CENTRAL VALLEY HIGH SCHOOL
CONTINUATION HIGH SCHOOL CAMPUS
KERN HIGH SCHOOL DISTRICT

HAZARDOUS MATERIALS DECLARATION

KERN HIGH SCHOOL DISTRICT
BOARD OF TRUSTEES
J. Bryan Batey, President
David Manriquez, Vice President — Kathy Scrivner, Clerk
Derek Tisinger, Clerk Pro Tem — Steven Rodrigue, Member
MICHAEL ZULFA, Ed.D., SUPERINTENDENT

5801 SUNDALE AVENUE • BAKERSFIELD • CALIFORNIA • 93309-2924 • (661) 827-3100 • FAX:(661) 396-2961

Kenneth R. Seals, Ed.D.
Assistant Superintendent, Business

April 16, 2026

DSA – Los Angeles Regional Office
355 South Grand Avenue, Suite 2100
Los Angeles, CA 90071

Re: DSA Application #03-125726; Central Valley High School, Hazardous Materials in Rooms 119, 120, 121

To Whom It May Concern:

No hazardous materials, as described in the 2022 CBC Table 307.1 and Section 414, as well as the 2022 CFC Section 5003, will be stored or used in room 119 (Parson-Patterson Lab), room 120 (Art Classroom), and room 121 (Science Classroom) at the new Central Valley High School campus.

If you have any questions or concerns, please do not hesitate to contact me at (661) 396-4961.

Sincerely,

John Cohrs
Director, Architectural Services & Design
Facilities Planning

The Kern High School District (KHSD) is committed to ensuring equal, fair, and meaningful access to employment and education services. KHSD prohibits discrimination, harassment (including sexual harassment), intimidation, or bullying in any employment practice, education program, or educational activity, on the basis and/or association with a person or group with one or more of these actual or perceived characteristics of age, ancestry, color, ethnic group identification, gender, gender identity or expression, genetic information, immigration status, marital status, medical information, national origin, physical or mental disability, parental status, pregnancy, race or ethnicity, religious creed, sex, sexual orientation, or veteran or military status, or any other characteristic set forth in applicable law. The District also prohibits retaliation against any person or group, or any other person protected by California state and federal civil rights laws, who opposes any practice forbidden under these laws or has filed a complaint, testified, or participated in any manner in any discrimination investigation or proceeding. Complaints of discrimination, harassment, intimidation, or bullying you should contact your school site principal and/or the District's Equity Compliance Officer and Title IX/ADA, Title IX, and Section 504 Coordinator, Melissa Ortmeier, 5801 Sundale Avenue, (661) 827-3178, melissa.ortmeier@kernhigh.org. A copy of KHSD's Uniform Complaint policy and Nondiscrimination policy are available at www.kernhigh.org and upon request.

DSA NOTES

1. ALL WORK SHALL CONFORM TO 2022 TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
2. FABRICATION AND INSTALLATION OF DEFERRED SUBMITTAL ITEMS SHALL NOT BE STARTED UNTIL CONTRACTOR'S DRAWINGS, SPECIFICATIONS, AND ENGINEERING CALCULATIONS FOR THE ACTUAL SYSTEMS TO BE INSTALLED HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER AND APPROVED BY DSA. LIST DEFERRED SUBMITTAL ITEMS FOR THIS PROJECT.
3. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.
4. A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR. AS A CLASS 1 PROJECT, PER IR A-7, THIS PROJECT MAY BE INSPECTED BY ANY DSA-CERTIFIED PI.
5. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
6. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(C), PART 1, TITLE 24, CCR
7. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
8. SUBSTITUTIONS AFFECTING DSA-REGULATED ITEMS SHALL BE CONSIDERED AS CONSTRUCTION CHANGE DOCUMENTS (CCDS) AND SHALL BE APPROVED PRIOR TO FABRICATION AND INSTALLATION PER DSA IR A-6 AND SECTION 338(C) PART 1, TITLE 24 CCR
9. ALL CONSTRUCTION AND DEMOLITION SHALL BE IN ACCORDANCE WITH CHAPTER 33 OF THE CBC AND CFC, AND THE WRITTEN SAFETY PLAN. REFER TO DSA PUBLICATION BU 24-05 FOR FURTHER INFORMATION.

ACCEPTANCE TESTING

THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.

- LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).
- MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.
- ENVELOPE AND PROCESS EQUIPMENT ACCEPTANCE TESTS SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, ENGINEER/ARCHITECT OF RECORD OR THE OWNER'S AGENT.

A LISTING OF CERTIFIED ATT CAN BE FOUND AT:
HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE.

THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.

PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

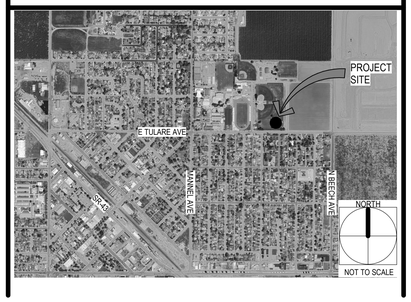
PROJECT DIRECTORY

PROJECT CENTRAL VALLEY CONTINUATION H.S. 526 MANNEL AVE SHAFTER, CA 93263	**CLIENT** KERN HIGH SCHOOL DISTRICT 5801 SUNDALE AVE. BAKERSFIELD, CA 93309 Tel: (661) 396-4961 x 61761 Contact: JOHN COHRS Email: John_Cohrs@kernhigh.org
ARCHITECT SGPA ARCHITECTURE & PLANNING 3111 CAMINO DEL RIO NORTH, STUDIO 500 SAN DIEGO, CA 92108 Tel: (619) 297-0131 Contact: TRAVIS KELTNER Email: tkeltner@sgpa.com	**CIVIL** SWANSON ENGINEERING 2000 OAK STREET, SUITE 150 BAKERSFIELD, CA 93301 Tel: (661) 831-4919 Contact: BOB SWANSON Email: Bob@swansonengr.com
STRUCTURAL ADVANCED STRUCTURAL DESIGN, INC. 7112 N. FRESNO STREET, SUITE 311 FRESNO, CA 93720 Tel: (559) 432-4151 Contact: MARK T. BOZZO Email: mbozzo@asdengr.com	**LANDSCAPE** RIOS DESIGN STUDIO 3805 ORA VISTA AVE BAKERSFIELD, CA 93309 Tel: (661) 835-9259 Contact: MEGAN RIOS Email: megan@riosdesign.com
MECHANICAL, PLUMBING, ELECTRICAL, TECHNOLOGY, FIRE ALARM, FIRE PROTECTION LP ENGINEERS 1209 PLEASANT GROVE BLVD. ROSEVILLE, CA 95678 Tel: (916) 771-0778 Contact: JUAN HIDALGO Email: jhidalgo@lpengineers.com	**FOOD SERVICE** FOOD SERVICE DESIGN GROUP 1202 MARKET STREET SAN DIEGO, CA 92101 Tel: (619) 239-8156 Contact: KEITH LEO Email: kleo@fsdesigngroup.com

SYMBOLS LEGEND

LOBBY 256B	ROOM NAME AND ROOM NUMBER	1 S#B	WALL TAGS - REFER TO SHEET A-501
1234	KEYNOTE TAG - NEW WORK	1	DOOR TAGS - REFER TO SHEETS A1-601 & A2-601
1234	KEYNOTE TAG - DEMOLITION WORK	XX	WINDOW TAGS - REFER TO SHEETS A1-601 & A2-601
FEC	FIRE EXTINGUISHER CABINET - SEE DETAIL	℄	CENTER LINE
1 4 SHEET 2 3	SHEET NUMBER; ELEVATION CALLOUT; VIEW NUMBER, TYP.	A-B A-B	GRID LINES; GRID HEAD
1 A-444 1 A-444			BUILDING SECTION TAG
1 A-444			WALL SECTION TAG
1 A-444			DETAIL TAG
1 A-444			DETAIL CALLOUT/TAG
DESCRIPTION X'-X"			FINISH FLOOR LEVEL SYMBOL
DESCRIPTION X'-X"			SPOT ELEVATION
10'-0"			DIMENSION
120"			CLEAR FLOOR SPACE DIMENSION
10'-0"			FACE OF FINISH DIMENSION
888 H W D			CASEWORK TAG AWS / WC NUMBER HEIGHT, WIDTH, DEPTH (INCHES)
MODIFICATIONS			MODIFICATIONS TO STANDARD

VICINITY MAP



SCOPE OF WORK

PROJECT DESCRIPTION

- NEW CLASSROOM / CAFETERIA BUILDING (BLDG 200) - 3 CLASSROOMS, BOYS AND GIRLS RESTROOM, 2 ALL GENDER RESTROOMS, CAFETERIA, KITCHEN, CUSTODIAL ROOM, AND COVERED WALKWAYS
- NEW ADMINISTRATION / CLASSROOM BUILDING (BLDG 100) - ADMINISTRATIVE OFFICES, 4 CLASSROOMS, CONFERENCE ROOMS, LOBBY, HEALTH SERVICES, STAFF LOUNGE, STAFF RESTROOMS, MDF/ELECTRICAL ROOM, AND COVERED WALKWAYS
- NEW COVERED OUTDOOR MULTI-USE COURT (BLDG 300)
- SITE WORK INCLUDING SITE DRAINAGE AND GRADING, DRAINAGE BASINS, NEW SITE ROAD WITH BUS DROP OFF/PICK UP AREA, REPAVING AND RE-STRIPING OF EXISTING PARKING LOT, HARDSCAPE, LANDSCAPING, IRRIGATION, ASHALT PLAY AREA, FENCING AND GATES, TRASH ENCLOSURE, UTILITY INFRASTRUCTURE, AND SITE LIGHTING

DEFERRED SUBMITTAL: NONE

PROJECT DATA

LEGAL DESCRIPTION

LOT 13 OF THE SALES MAP OF THE KERN COUNTY LAND COMPANY IN SECTION 10, T.28S., R.25E M.D.M. IN THE CITY OF SHAFTER, COUNTY OF KERN, STATE OF CALIFORNIA, ACCORDING TO THE MAP THEREOF RECORDED MARCH 25, 1949 IN BOOK 6 AT PAGE 11, OF RECORD OF SURVEYS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY. EXCEPTING THEREFROM THE NORTH 330 FEET THEREOF.

LOT 14 AND THE NORTH 330 FEET OF LOT 13 OF THE SALES MAP OF THE KERN COUNTY LAND COMPANY IN SECTION 10, T.28S, R.25E. M.D.M. IN THE CITY OF SHAFTER, COUNTY OF KERN, STATE OF CALIFORNIA, ACCORDING TO THE MAP THEREOF RECORDED MARCH 25, 1949 IN BOOK 6 AT PAGE 11, OF RECORD OF SURVEYS, IN THE
OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

LOTS 15 AND 16 OF THE SALES MAP OF THE KERN COUNTY LAND COMPANY IN SECTION 10, T.28S, R.25E. M.D.M. IN THE CITY OF SHAFTER, COUNTY OF KERN, STATE OF CALIFORNIA, ACCORDING TO THE MAP THEREOF RECORDED MARCH 25, 1949 IN BOOK 6 AT PAGE 11, OF RECORD OF SURVEYS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

OCCUPANCIES	E, B
TYPE CONSTRUCTION	V-B
SPRINKLERED	YES
APN	028-010-05
ZONING CLASSIFICATION	COMMUNITY FACILITIES (CF)
SITE AREA	100,188 SF (2.3 ACRES)
NUMBER OF STORIES	1
GROSS FLOOR AREA	15,831 SF
CALIFORNIA CLIMATE ZONE	13

PARKING SUMMARY

SEE TABLE ON SHEET A-102

APPLICABLE CODES

ADMINISTRATIVE CODE	2022 CALIFORNIA ADMINISTRATIVE CODE (CAC) PART 1, TITLE 24 CCR
BUILDING CODE	2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
ELECTRICAL CODE	2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
MECHANICAL CODE	2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
PLUMBING CODE	2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
ENERGY CODE	2022 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 CCR
FIRE CODE	2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
EXISTING BUILDING CODE	2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
GREEN BUILDING	2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CAL Green), PART 11, TITLE 24 CCR
REFERENCE STANDARDS	2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR
TITLE 19 CCR	PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
FIRE SPRINKLERS	2022 NFPA 13 - AUTOMATIC SPRINKLER SYSTEMS
FIRE ALARM	2022 NFPA 72 - NATIONAL FIRE ALARM CODE (CA. AMEND.)
FIRE DOORS	2022 NFPA 80 - FIRE DOOR AND OPENING PROTECTIVES

STATEMENT OF GENERAL CONFORMANCE

STATEMENT OF GENERAL CONFORMANCE

Application No.: 03-125726

File No.: 15-H3

The drawings identified as follows:

☒ All drawing sheets included in this set not bearing my stamp and signature.
☐ Drawing sheets denoted in the sheet index as follows: _____
☐ Drawing sheets included under the following PC approval(s): _____

have been prepared by other design professionals or consultants who are licensed and authorized to prepare such drawings (plans) in this state. They have been examined by me for:

1) Design intent and appear to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications prepared by me, and
2) Coordination with my drawings (plans) and specifications and are acceptable for incorporation into the construction of this project.

Per Title 24, Part 1, Section 4-316(b): This Statement of General Conformance shall not be construed as relieving me of my rights, duties, and responsibilities under Sections 17302 and 81138 of the Education Code and Sections 4-336, 4-341 and 4-344 of Title 24, Part 1.

Signature — Date: 11/20/2025

Stephanie Antl	C-34108	08/31/2027
Printed Name	License Number	Expiration Date

SHEET INDEX

SHEET NO.	SHEET NAME	ISSUE 100% DD	50% CONSTRUCTION DOCUMENTS	100% CD
TITLE SHEETS				
TS-1	TITLE SHEET / SHEET INDEX	X	X	X
TS-2	GENERAL NOTES / KEYNOTES		X	X
TITLE SHEETS: 2				
CIVIL				
C-1	TITLE SHEET	X	X	X
C-2	GRADING PLAN	X	X	X
C-3	SITE UTILITY PLAN	X	X	X
C-4	NOTES / DETAILS	X	X	X
C-5	PAVEMENT PLAN			X
C-6	SITE UTILITY DETAILS			
C-7	EROSION CONTROL PLAN			
C-8	BMP DETAILS			
CIVIL: 8				
LANDSCAPE				
L-100	HYDROZONE PLAN	X	X	X
L-200	IRRIGATION PLAN	X	X	X
L-201	IRRIGATION LEGEND & DETAILS	X	X	X
L-202	IRRIGATION DETAILS			X
L-300	PLANTING PLAN	X	X	X
L-301	PLANTING DETAILS & NOTES	X	X	X
LANDSCAPE: 6				
ARCHITECTURAL				
A-001	ACCESSIBILITY / SIGNAGE SITE PLAN	X	X	X
A-002	FIRE ACCESS SITE PLAN		X	X
A-003	BUILDING AREA AND HEIGHT ANALYSIS		X	X
A-004	FIRE LIFE SAFETY		X	X
A-005	SIGNAGE PLAN	X	X	X
A-101	DEMOLITION SITE PLAN	X	X	X
A-102	NEW WORK SITE PLAN	X	X	X
A-201	FLOOR PLAN	X	X	X
A-202	SLAB PLAN			X
A-203	ENLARGED FLOOR PLANS - BUILDING 100 EAST		X	X
A-204	ENLARGED FLOOR PLANS - BUILDING 100 WEST		X	X
A-205	ENLARGED FLOOR PLANS - BUILDING 200 EAST		X	X
A-206	ENLARGED FLOOR PLANS - BUILDING 200 WEST		X	X
A-207	ENLARGED FLOOR PLANS - RESTROOMS		X	X
A-211	REFLECTED CEILING PLAN		X	X
A-221	ROOF PLAN		X	X
A-301	EXTERIOR ELEVATIONS - BUILDING 100		X	X
A-302	EXTERIOR ELEVATIONS - BUILDING 200 & BUILDING 300		X	X
A-401	BUILDING SECTIONS - BUILDING 100		X	X
A-402	BUILDING SECTIONS - BUILDING 200 & BUILDING 300		X	X
A-411	WALL SECTIONS - BUILDING 100		X	X
A-412	WALL SECTIONS - BUILDING 200		X	X
A-501	WALL AND ROOF TYPES		X	X
A-510	DOOR/WINDOW SCHEDULE - BUILDING 100		X	X
A-520	DOOR/WINDOW SCHEDULE - BUILDING 200		X	X
A-530	FINISH SCHEDULE GENERAL NOTES		X	X
A-531	FINISH SCHEDULES		X	X
A-710	INTERIOR ELEVATIONS - BUILDING 100 RESTROOMS		X	X
A-711	INTERIOR ELEVATIONS - BUILDING 100		X	X
A-712	INTERIOR ELEVATIONS - BUILDING 100		X	X
A-713	INTERIOR ELEVATIONS - BUILDING 100		X	X
A-714	INTERIOR ELEVATIONS - BUILDING 100		X	X
A-715	INTERIOR ELEVATIONS - BUILDING 100		X	X
A-716	INTERIOR ELEVATIONS - BUILDING 100		X	X
A-720	INTERIOR ELEVATIONS - BUILDING 200 RESTROOMS		X	X
A-721	INTERIOR ELEVATIONS - BUILDING 200		X	X
A-722	INTERIOR ELEVATIONS - BUILDING 200		X	X
A-801	DETAILS - ACCESSIBILITY		X	X
A-811	DETAILS - SITE		X	X
A-812	DETAILS - SITE			X
A-813	DETAILS - SITE			X
A-821	DETAILS - WALL		X	X
A-831	DETAILS - ROOF		X	X
A-841	DETAILS - DOORS		X	X
A-851	DETAILS - WINDOWS		X	X
A-861	DETAILS - CEILINGS		X	X
A-862	DETAILS - CEILINGS			X
A-871	DETAILS - INTERIOR		X	X
ARCHITECTURAL: 48				
STRUCTURAL				
S001	TYPICAL NOTES AND DETAILS		X	X
S002	TYPICAL NOTES AND DETAILS		X	X
S003	TYPICAL NOTES AND DETAILS		X	X
S004	TYPICAL NOTES AND DETAILS		X	X
S005	TYPICAL NOTES AND DETAILS		X	X
S101	FOOTING DETAILS	X	X	X
S201	FOUNDATION PLAN	X	X	X
S301	ROOF FRAMING PLAN	X	X	X
S302	FRAMING PLANS			X
S401	CEILING FRAMING PLAN	X	X	X
S501	BLDG 100 SECTIONS	X	X	X
S502	BLDG 100 SECTIONS	X	X	X
S503	BLDG 200 SECTIONS	X	X	X
S504	BLDG 200 SECTIONS			X
S505	BLDG 300 SECTIONS	X	X	X
S601	BLDG 100 ELEVATIONS	X	X	X
S602	BLDG 100 ELEVATIONS	X	X	X
S603	BLDG 200 ELEVATIONS	X	X	X
S604	BLDG 200 ELEVATIONS	X	X	X
S605	BLDG 300 ELEVATIONS	X	X	X
S701	FRAMING DETAILS		X	X
S702	FRAMING DETAILS			X
STRUCTURAL: 22				
MECHANICAL				
M-001	MECHANICAL LEGEND AND NOTES	X	X	X
M-002	MECHANICAL SCHEDULES	X	X	X
M-003	MECHANICAL SCHEDULES	X	X	X
M-101	MECHANICAL SITE PLAN	X	X	X
M-201	MECHANICAL - FLOOR PLAN	X	X	X
M-221	MECHANICAL - ROOF PLAN	X	X	X
M-701	MECHANICAL CONTROLS			X
M-702	MECHANICAL CONTROLS			X
M-703	MECHANICAL CONTROLS			X
M-704	MECHANICAL CONTROLS			X
M-801	MECHANICAL DETAILS	X	X	X
M-802	MECHANICAL DETAILS	X	X	X
MECHANICAL: 12				

SHEET NO.	SHEET NAME	ISSUE 100% DD	50% CONSTRUCTION DOCUMENTS	100% CD
TITLE 24				
T24-001	TITLE 24 COMPLIANCE			X
T24-002	TITLE 24 COMPLIANCE			X
T24-003	TITLE 24 COMPLIANCE			X
T24-004	TITLE 24 COMPLIANCE			X
T24-005	TITLE 24 COMPLIANCE			X
T24-006	TITLE 24 COMPLIANCE			X
T24-007	TITLE 24 COMPLIANCE			X
TITLE 24: 7				
PLUMBING				
P-001	PLUMBING LEGEND AND NOTES	X	X	X
P-002	PLUMBING SCHEDULES	X	X	X
P-101	PLUMBING SITE PLAN	X	X	X
P-201	PLUMBING - WATER PLAN	X	X	X
P-202	PLUMBING - WASTE & VENT PLAN	X	X	X
P-221	PLUMBING - ROOF PLAN	X	X	X
P-222	PLUMBING - ROOF DRAIN CALCULATION PLAN		X	X
P-301	PLUMBING - ENLARGED FLOOR PLANS	X	X	X
P-801	PLUMBING DETAILS	X	X	X
P-802	PLUMBING DETAILS	X	X	X
PLUMBING: 10				
ELECTRICAL				
E-001	ELECTRICAL ABBREVIATIONS, SHEET INDEX AND NOTES	X	X	X
E-002	ELECTRICAL SYMBOL LEGEND	X	X	X
E-101	OVERALL ELECTRICAL SITE PLAN	X	X	X
E-102	ENLARGED ELECTRICAL SITE PLAN	X	X	X
E-103	LIGHTING SITE PLAN	X	X	X
E-104	PHOTOMETRIC SITE PLAN		X	X
E-201	ELECTRICAL - POWER PLAN	X	X	X
E-202	ENLARGED ELECTRICAL ROOM PLANS	X	X	X
E-203	ENLARGED FOOD SERVICE POWER PLAN	X	X	X
E-211	ELECTRICAL - LIGHTING PLAN	X	X	X
E-221	ELECTRICAL - ROOF PLAN	X	X	X
E-501	ONE-LINE DIAGRAM	X	X	X
E-601	ELECTRICAL SCHEDULES	X	X	X
E-602	PANEL SCHEDULES		X	X
E-603	PANEL SCHEDULES		X	X
E-604	PANEL SCHEDULES		X	X
E-605	PANEL SCHEDULES		X	X
E-801	ELECTRICAL DETAILS - SITE	X	X	X
E-802	ELECTRICAL DETAILS - SITE		X	X
E-803	ELECTRICAL DETAILS - POWER		X	X
ELECTRICAL: 20				
FIRE PROTECTION				
FP-001	LEGENDS, NOTES AND SCHEDULES	X	X	X
FP-101	FIRE PROTECTION SITE PLAN	X	X	X
FP-201	FIRE PROTECTION - PIPING PLAN	X	X	X
FP-211	FIRE PROTECTION - REFLECTED CEILING PLAN	X	X	X
FP-411	FIRE SPRINKLER SECTIONS	X	X	X
FP-601	SEISMIC CALCULATIONS			X
FP-602	SEISMIC CALCULATIONS			X
FP-603	SEISMIC CALCULATIONS			X
FP-801	FIRE SPRINKLER DETAILS	X	X	X
FP-802	FIRE SPRINKLER DETAILS	X	X	X
FP-803	FIRE SPRINKLER DETAILS	X	X	X
FIRE PROTECTION: 11				
FIRE ALARM				
FA-001	FIRE ALARM LEGEND AND NOTES	X	X	X
FA-003	FIRE ALARM CALCULATIONS		X	X
FA-004	FIRE ALARM RISER DIAGRAM		X	X
FA-101	FIRE ALARM SITE PLAN	X	X	X
FA-211	FIRE ALARM - REFLECTED CEILING PLAN	X	X	X
FA-801	FIRE ALARM DETAILS	X	X	X
FA-802	FIRE ALARM DETAILS AND SEQUENCING			X
FIRE ALARM: 7				
TECHNOLOGY				
T-001	TECHNOLOGY NOTES	X	X	X
T-002	TECHNOLOGY LEGENDS	X	X	X
T-101	TECHNOLOGY SITE PLAN	X	X	X
T-201	TECHNOLOGY - FLOOR PLAN	X	X	X
T-211	TECHNOLOGY - REFLECTED CEILING PLAN	X	X	X
T-411	TECHNOLOGY MDF 1.0 RACK ELEVATION AND SCHEDULE	X	X	X
T-412	TECHNOLOGY IDF 1.0 RACK ELEVATION AND SCHEDULE	X	X	X
T-501	TECHNOLOGY ONE-LINE DIAGRAMS	X	X	X
T-502	AUDIO-VIDEO ONE-LINE DIAGRAMS			X
T-801	TECHNOLOGY BACKBONE PATHWAY DETAILS	X	X	X
T-802	TECHNOLOGY MDF/IDF DETAILS	X	X	X
T-803	TECHNOLOGY HORIZONTAL PATHWAYS	X	X	X
T-804	TECHNOLOGY DETAILS	X	X	X
T-805	TECHNOLOGY AUDIO-VIDEO DETAILS	X	X	X
T-806	TECHNOLOGY SECURITY DETAILS	X	X	X
T-807	TECHNOLOGY RATED ASSEMBLY PENETRATION DETAILS	X	X	X
TECHNOLOGY: 16				
FOOD SERVICE				
K-T	FOOD SERVICE TITLE SHEET AND FINISH SCHEDULE			X
K-001	BUILDING 200 FLOOR PLAN		X	X
K-100	FOOD SERVICE EQUIPMENT FLOOR PLAN	X	X	X
K-200	FOOD SERVICE EQUIPMENT SCHEDULE	X	X	X
K-300	FOOD SERVICE EQUIPMENT ELECTRICAL ROUGH-IN PLAN		X	X
K-400	FOOD SERVICE EQUIPMENT UNDER SLAB PLUMBING ROUGH-IN PLAN		X	X
K-410	FOOD SERVICE EQUIPMENT ABOVE SLAB PLUMBING ROUGH-IN PLAN		X	X
K-500	FOOD SERVICE EQUIPMENT WALL BACKING ROUGH-IN PLAN		X	X
K-600	FOOD SERVICE EQUIPMENT ELEVATIONS AND SECTIONS		X	X
K-700	FOOD SERVICE EQUIPMENT ANCHORAGE DETAILS			X
FOOD SERVICE: 10				
PHOTOVOLTAIC				
PV-001	COVER SHEET			X
PV-002	GENERAL NOTES			X
PV-101	SITE PLAN			X
PV-201	ROOF PLAN			X
PV-202	STRING PLAN			X
PV-301	ELECTRICAL MOUNTING DETAILS			X
PV-302	LINE DIAGRAM			X
PV-401	ELECTRICAL CALCULATIONS			X
PV-501	STRUCTURAL DETAIL & ARRAY PLAN			X
PV-601	ELECTRICAL PLACARDS & SPEC SHEETS			X
PV-602	SPEC SHEETS			X
PV-603	SPEC SHEETS			X
PHOTOVOLTAIC: 12				
TOTAL SHEETS: 191				

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125726 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/28/2026

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REN. AUG 31, 27
STATE OF CALIFORNIA

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5801 SUNDALE AVE.
BAKERSFIELD, CA 93309

CENTRAL VALLEY HIGH SCHOOL
CONTINUATION HIGH SCHOOL CAMPUS
526 MANNEL AVENUE
SHAFTER, CA 93263

DRAWING SUBMITTAL SCHEDULE

100% DD SET	07/08/2025
50% CONSTRUCTION DOCUMENTS	10/10/2025
100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO: 22434-E-02

TITLE SHEET / SHEET INDEX

TS-1

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FIRE & LIFE SAFETY NOTES

1. ALL INTERIOR FINISHES SHALL CONFORM TO THE REQUIREMENTS OF CHAPTER 8, PART 2, TITLE 24, CCR. ALL FINISHES SHALL HAVE A FLAME SPREAD INDEX OF 75 OR LESS AND A SMOKE-DEVELOPED INDEX NOT TO EXCEED 450 WHEN TESTED IN ACCORDANCE WITH ASTM E84. AND SHALL HAVE A CLASS A OR B FLAME SPREAD INDEX PER TABLE 803.11.
2. ALL INSULATION MATERIALS INSTALLED WITHIN ROOF - CEILING ASSEMBLIES, ATTICS, OR WALLS SHALL HAVE A FLAME SPREAD INDEX NOT TO EXCEED 25 AND A SMOKE DENSITY NOT TO EXCEED 450 WHEN TESTED IN ACCORDANCE WITH ASTM E84.
3. ALL RATED DOORS SHALL BE POSITIVE LATCHING.
4. ALL FIRE RATED DOOR ASSEMBLIES SHALL BE PROVIDED WITH APPROVED GASKETING MATERIAL INSTALLED TO PROVIDE A SEAL WHERE THE DOOR MEETS THE STOP ON BOTH SIDES AND ACROSS THE TOP.
5. MANUFACTURERS INSTALLATION INSTRUCTIONS SHALL BE AVAILABLE ON THE JOB SITE FOR ALL RATED OPENING ASSEMBLIES.
6. PENETRATIONS THROUGH RATED WALLS AND FLOORS SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASES WHEN SUBJECTED TO THE REQUIREMENTS OF ASTM E119 AND IN COMPLIANCE WITH THE PROJECT MANUAL.
7. ALL ELECTRICAL, MECHANICAL, AND PLUMBING PENETRATIONS, INCLUDING CONDUITS AND PIPING, THROUGH FIRE RATED WALL, FLOOR AND CEILING ASSEMBLIES SHALL BE TIGHTLY AND SOLIDLY SEALED WITH FIRESTOPPING COMPLYING WITH ASTM E814. WHERE ITEM PENETRATES AN AREA SEPARATION WALL, THE SECTION PASSING THROUGH THE WALL SURFACE AND THE FIXTURE CONNECTIONS THERETO SHALL BE ONLY OF METAL.
8. PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A-10BC WITHIN A 75 FOOT TRAVEL DISTANCE TO ALL PORTIONS OF THE BUILDING ON EACH FLOOR.
9. PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 1-BC FOR ELECTRICAL ROOMS, MECHANICAL ROOMS, KITCHENS, AND TRASH ROOMS.
10. PROVIDE AN APPROPRIATE NUMBER OF PORTABLE FIRE EXTINGUISHERS WITH A RATING OF NOT LESS THAN 4A-60BC FOR PROTECTION DURING CONSTRUCTION.
11. THE CONTRACTOR SHALL PROVIDE AND INSTALL TEMPORARY PEDESTRIAN PROTECTION AS REQUIRED BY LOCAL CODE AND SPECIFICATION.
12. DO NOT BLOCK EXITS AT ANY TIME.
13. PROVIDE FIRE DAMPERS AT ALL DUCT PENETRATIONS OF FIRE RATED WALLS, FLOORS, SHAFTS AND CEILINGS. COMBINATION FIRE/SMOKE DAMPERS SHALL BE USED AT DUCT PENETRATIONS OF RATED CORRIDOR WALLS.
14. FIRE DAMPER DETAILS SHOWN FOR REFERENCE ONLY. FIRE DAMPERS SHALL BE APPROVED AND LISTED BY STATE FIRE MARSHAL. INSTALL STRICTLY PER MANUFACTURER'S PRINTED INSTRUCTIONS AND LISTING APPROVAL. MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL BE MADE AVAILABLE TO THE INSPECTING AUTHORITIES.
15. DUCT INSULATION APPLIED TO THE EXTERIOR SURFACE OF DUCTS LOCATED IN BUILDINGS SHALL HAVE A FLAME SPREAD OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED RATING OF NOT MORE THAN 50 WHEN TESTED AS A COMPOSITE INSTALLATION INCLUDING INSULATION, FACING MATERIALS, TAPES AND ADHESIVES AS NORMALLY APPLIED.
16. THE FIRE ALARM SYSTEM SHALL CONFORM TO ARTICLE 760 OF THE CALIFORNIA ELECTRICAL CODE, STANDARDS AS DEFINED IN CHAPTER 35 CALIFORNIA BUILDING CODE AND APPLICABLE NFPA STANDARDS.
17. THE CONTRACTOR SHALL PROVIDE PROTECTION COMPLYING WITH TITLE 8, CCR, DURING WELDING. FURTHER PROTECTION SHALL BE PROVIDED TO ANY OCCUPANTS AND THE PUBLIC WITH PORTABLE SOLID VISION BARRICADES AROUND LOCATION WHERE WELDING IS BEING PERFORMED. PROVIDE SIGNS WARNING AGAINST LOOKING AT WELDING WITHOUT PROPER EYE PROTECTION OR EQUIVALENT.

GENERAL SITE NOTES

1. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH STATE, FEDERAL AND LOCAL CODES, ORDINANCES, LAWS AND THE CALIFORNIA BUILDING CODE, 2019 EDITION, CALIFORNIA FIRE CODE, 2019 EDITION.
2. THE RECOMMENDATIONS OF THE SOILS REPORT FOR THE SITE EARTHWORK. ARE AVAILABLE UPON REQUEST FROM THE SOILS ENGINEER.
3. THE PROJECT MANUAL, INCLUDING SPECIFICATIONS, UNDER SEPARATE COVER, IS AN INTEGRAL PART OF THE CONTRACT DOCUMENTS.
4. VISIT THE SITE. VERIFY ALL DIMENSIONS BEFORE SUBMITTING A BID. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES, AND OBTAIN ALL REQUIRED PERMITS.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR ACCURATE LOCATION OF NEW BUILDING PADS, CURBS, DRIVES AND WALKWAYS, AND FOR MAINTAINING PROPER RELATIONSHIPS TO PROPERTY LINES, PARCEL LINES AND EASEMENTS.
6. PROVIDE LABOR AND MATERIALS NECESSARY TO COMPLETE ALL FINISH GRADING, AS SHOWN IN THE CONTRACT DOCUMENTS INCLUDING CIVIL AND LANDSCAPE DRAWINGS. THIS SHALL INCLUDE FINAL CONTOUR GRADING AND BERMING PER LANDSCAPE ARCHITECTS PLANS.
7. VERIFY ALL ELEVATIONS, FLOW LINES, EXISTING CONDITIONS, AND POINTS OF CONNECTIONS WITH ADJOINING PROPERTY. DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND CIVIL ENGINEER BEFORE PROCEEDING WITH ANY WORK.
8. PROVIDE POSITIVE DRAINAGE OF SURFACE WATER AWAY FROM ALL BUILDINGS, SLABS AND GRADED PADS, WITHOUT PONDING OF WATER ADJACENT TO BUILDINGS OR ON PAVEMENTS. DRAINAGE OF PAVED AND LANDSCAPED AREAS TO BE A MINIMUM OF 1%, UNLESS OTHERWISE NOTED. MAXIMUM SLOPE AT PARKING LOT TO BE 5% EXCEPT AT DRIVES.
9. ALL EARTH WORK TO BE PERFORMED UNDER THE OBSERVATION OF THE SOILS ENGINEER IN ACCORDANCE WITH RECOMMENDATIONS OF THE SOILS REPORT TO ASSURE PROPER SITE PREPARATION, SELECTION OF SATISFACTORY FILL MATERIALS IF ANY, AND PLACEMENT AND COMPACTION OF THE FILLS.
10. COORDINATE SITE GRADING, UTILITY WORK, DRIVEWAY AND FINISH WORK WITH EXISTING AND NEW OFF-SITE CONDITIONS.
11. FIRE HYDRANTS TO BE INSTALLED UNDER THIS CONTRACT ARE TO BE LOCATED PER CIVIL DRAWINGS.
12. ON-SITE WATER, FIRE, SANITARY SEWER AND STORM DRAINAGE TO BE PER CIVIL ENGINEER'S DRAWINGS. INSTALL WATER METER VAULTS WHERE SHOWN. CONTRACTOR TO ADJUST VAULTS TO FINISH GRADE.
13. ALL BUILDINGS INDICATED ARE UNDER SEPARATE CONTRACT PROVIDE GRADED PADS & UTILITIES PER CIVIL ENGINEER'S DRAWINGS AND COORDINATE WITH BUILDING CONTRACTORS.
14. SIGN CONTRACTOR SHALL ACQUIRE SEPARATE PERMITS FOR INSTALLATION OF ALL SIGNS AS REQUIRED BY LOCAL PUBLIC AGENCIES.
15. THE PARKING LOT SHALL HAVE PROPERLY POSTED SIGNS THAT STATE THE USE OF THE PARKING AREA IS FOR THE EXCLUSIVE USE OF EMPLOYEES AND CUSTOMERS OF THIS PROJECT. (SEE CALIFORNIA VEHICLE CODE SECTIONS 22507.8, 22511.5, 22511.8)
16. PERSONNEL OPERATING AT THE CONSTRUCTION SITE SHALL HAVE A MEANS OF COMMUNICATING AND REPORTING A FIRE OR MEDICAL EMERGENCY. THIS REQUIREMENT MAY BE MET BY USE OF A CELLULAR TELEPHONE AND BY DIALING 911. CELLULAR TELEPHONE CALLS TO 911 NOW REPORT TO THE CLOSEST PUBLIC SERVICE ANSWERING POINT: FREMONT POLICE DISPATCH FOR THE PROJECT SITE.

ACCESSIBILITY NOTES

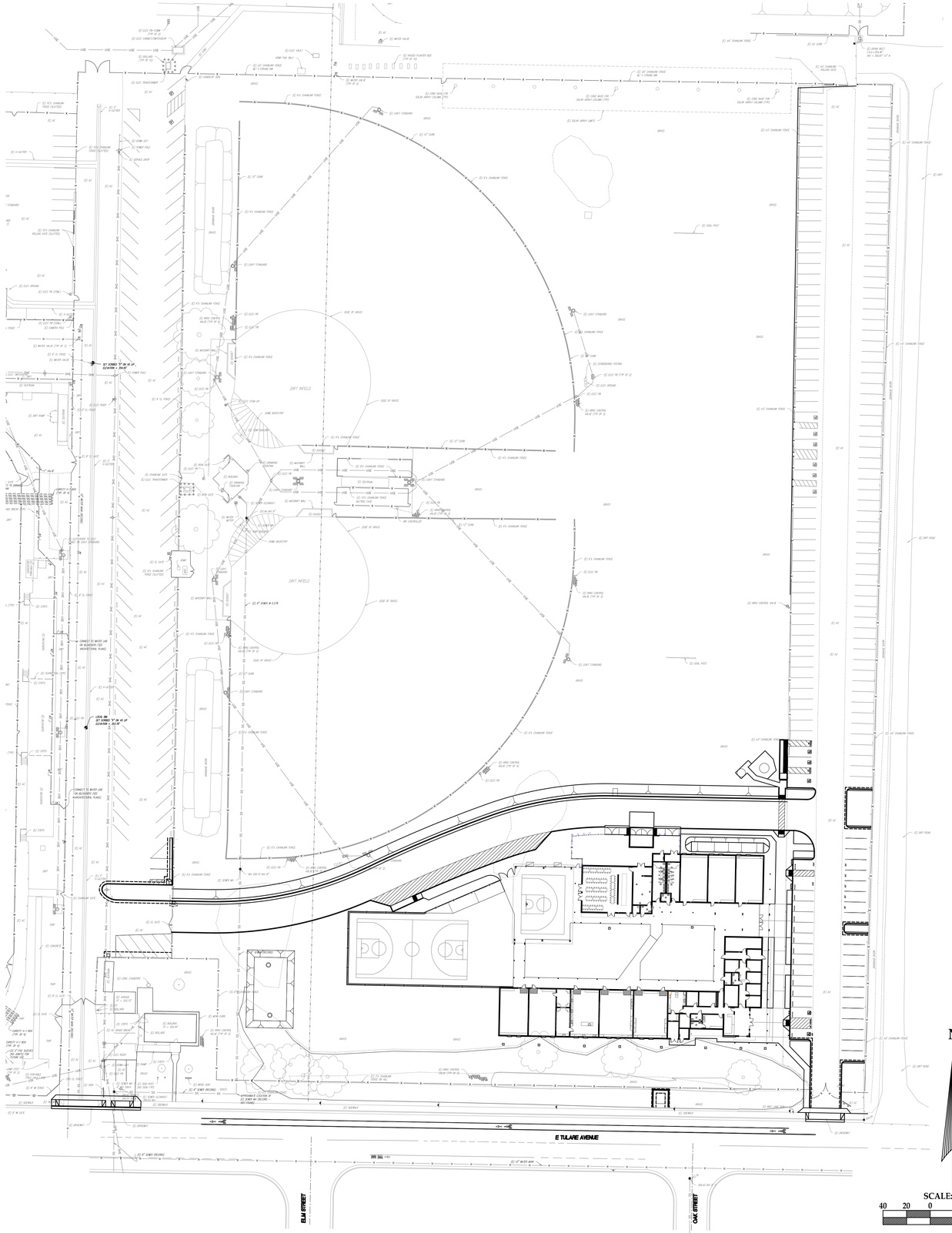
1. PATH OF TRAVEL (P.O.T.) AS INDICATED IS A BARRIER FREE ACCESS WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAXIMUM SLOPE, EXCEPT THAT LEVEL CHANGES DO NOT EXCEED 1/4" VERTICAL AND IS AT LEAST 48" WIDE. SURFACE IS SLIP RESISTANT, STABLE, FIRM, AND SMOOTH. CROSS-SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED. (P.O.T.) SHALL MAINTAIN FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM (11B-307.4) AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM THE WALL AND ABOVE 27" AND LESS THAN 80" (11B-307.2). CONTRACTOR TO VERIFY THAT ALL BARRIERS IN THE PATH OF TRAVEL HAVE BEEN REMOVED OR WILL BE REMOVED UNDER THIS PROJECT, AND PATH OF TRAVEL COMPLIES WITH DIVISION 4, CHAPTER 11B, CBC.
2. PUBLIC WALKS FROM THE BUILDING TO THE PUBLIC WAY AND TO PARKING AREAS DESIGNATED AS ACCESSIBLE SHALL COMPLY WITH CHAPTER 11B, PART 2, TITLE 24, CCR. PROVIDE WALKS A MINIMUM OF 48 INCHES WIDE AND WITH A GRADIENT NOT GREATER THAN 5% (1:20), WITH NO ABRUPT CHANGES GREATER THAN 1/2 INCHES IN THE DIRECTION OF TRAVEL.
3. PROVIDE WALKS WITH LEVEL LANDINGS AT ALL EXTERIOR EXIT DOORS COMPLYING WITH CHAPTERS 10 AND 11B, PART 2, TITLE 24, CCR.
4. SURFACE CROSS SLOPE GRADIENT SHALL NOT EXCEED 2 PERCENT PER FOOT AT WALKS AND PATHS WITHIN THE ACCESSIBLE PATH OF TRAVEL.
5. PROVIDE ACCESSIBLE BUILDING ENTRANCES COMPLYING WITH CHAPTERS 10 AND 11B, PART 2, TITLE 24, CCR., UNLESS SHOWN OTHERWISE.
6. PROVIDE WARNING CURB, RAILING/GUIDE RAIL OR OTHER PROTECTIVE DEVICE AT ALL ABRUPT CHANGES IN LEVEL, (EXCEPT BETWEEN A WALK/SIDEWALK AND ADJACENT STREET OR DRIVEWAY) COMPLYING WITH CHAPTER 10, PART 2, TITLE 24, CCR.
7. DOOR CONSTRUCTION AND HARDWARE: A) PROVIDE THE BOTTOM 10 INCHES OF ALL DOORS (EXCEPT AUTOMATIC AND SLIDING DOORS) WITH A SMOOTH UNINTERRUPTED SURFACE PERMITTING THE DOOR TO BE OPENED WITH A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION. B) LIMIT DOOR OPERATING FORCE IN COMPLIANCE WITH CHAPTER 10, PART 2, TITLE 24, CCR..
8. ACCESSIBLE WATER CLOSET COMPARTMENTS AND FIXTURES: A) PROVIDE ACCESSIBLE WATER CLOSETS COMPLYING WITH CHAPTER 11B, PART 2, TITLE 24, CCR AND ACCESSIBLE DIMENSION SCHEDULE. B) PROVIDE ACCESSIBLE CONTROLS COMPLYING WITH CHAPTER 11B, PART 2, TITLE 24, CCR AND CHAPTER 15, PART 5, TITLE 24, CR. C) EXCEPT FOR DOOR OPENING WIDTHS AND DOOR SWINGS. PROVIDE A MINIMUM 48 INCH WIDE CLEAR AND UNOBSTRUCTED ACCESS PATH TO ACCESSIBLE WATER CLOSET COMPARTMENTS.
9. ACCESSIBLE URINALS: **A)** PROVIDE ACCESSIBLE URINALS COMPLYING WITH CHAPTER 11B, PART 2, TITLE 24, CCR AND ACCESSIBLE DIMENSION SCHEDULE. **B)** PROVIDE ACCESSIBLE CONTROLS COMPLYING WITH CHAPTER 11B, PART 2, TITLE 24, CCR AND CHAPTER 15, PART 5, TITLE 24, CCR.
10. ACCESSIBLE LAVATORIES: **A)** PROVIDE LAVATORIES COMPLYING WITH CHAPTER 11B, PART 2, TITLE 24, CCR AND ACCESSIBLE DIMENSION SCHEDULE. **B)** PROVIDE ACCESSIBLE CONTROLS COMPLYING WITH CHAPTER 11B, PART 2, TITLE 24, CCR AND CHAPTER 16, PART 5, TITLE 24, CCR.
11. ACCESSIBLE SINKS. **A)** PROVIDE SINKS COMPLYING WITH ACCESSIBLE DIMENSION SCHEDULE. **B)** PROVIDE ACCESSIBLE CONTROLS COMPLYING WITH CHAPTER 11B, PART 2, TITLE 24, CCR AND CHAPTER 16, PART 5, TITLE 24, CCR. **C)** PROVIDE KNEE CLEARANCE UNDER SINKS MINIMUM 30 INCHES WIDE AND MINIMUM 27 INCHES HIGH, MEASURED FROM FINISH FLOOR TO BOTTOM OF SINK, AND EXTENDING A MINIMUM OF 19 INCHES FROM APRON FRONT EDGE. **D)** PROVIDE SINKS WITH MAXIMUM DEPTH OF 6-1/2 INCHES.
12. GRAB BARS: **A)** PROVIDE GRAB BARS COMPLYING WITH CHAPTER 11B, PART 2, TITLE 24, CCR AND ACCESSIBLE DIMENSION SCHEDULE. **B)** SHARP OR ABRASIVE SURFACES ADJACENT TO GRAB BARS ARE NOT PERMITTED. **C)** LOCATE GRAB BARS ON SIDE AND BACK OF THE WATER CLOSET, 33 INCHES ABOVE AND PARALLEL TO THE FLOOR. PROVIDE SIDE GRAB BARS AT LEAST 48 INCHES LONG, WITH THE FRONT END POSITIONED 24 INCHES IN FRONT OF THE WATER CLOSET. LOCATE SIDE MOUNTED GRAB BAR MAXIMUM 12 INCHES FROM REAR GRAB BARS AT LEAST 36 INCHES LONG, MOUNTED WITH CLOSEST END A MAXIMUM OF 6 INCHES FROM SIDE WALL. **E)** GRAB BARS SHALL NOT ROTATE IN THEIR FITTINGS. **D)** FOR MOUNTING HEIGHTS SEE ACCESSIBLE DIMENSION SCHEDULE
13. ACCESSIBLE TOILET ACCESSORIES: **A)** PROVIDE ACCESSORIES COMPLYING WITH CHAPTER 11B, PART 2, TITLE 24, CCR AND ACCESSIBLE DIMENSION SCHEDULE. **B)** WHERE TOWEL, SOAP AND SIMILAR DISPENSING AND DISPOSAL FIXTURES ARE PROVIDED, PROVIDE AT LEAST ONE OF EACH TYPE WITH ALL OPERABLE PARTS, INCLUDING COIN SLOTS, LOCATED MAXIMUM 40 INCHES AFF. **C)** MOUNT MIRRORS WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE MAXIMUM 40 INCHES AFF. **D)** TOILET TISSUE DISPENSER SHALL BE LOCATED ON THE WALL CLOSEST TO WATER CLOSET, 7" MIN AND 9" MAX IN FRONT OF WATER CLOSET, MEASURED TO THE CENTERLINE OF THE DISPENSER.
14. ACCESSIBLE DRINKING FOUNTAINS: PROVIDE DRINKING FOUNTAINS COMPLYING WITH CHAPTER 11B, PART 2, TITLE 24, CCR, CHAPTER 16, PART 5, TITLE 24, AND CCR.
15. ACCESSIBILITY SIGNAGE - CBC 11B-703: **A)** PROVIDE ACCESSIBLE PARKING SIGNAGE COMPLYING WITH CHAPTER 11B, DIVISION II, PART 2, TITLE 24, CCR. **B)** PROVIDE TOILET ROOM ACCESSIBILITY SIGNAGE COMPLYING WITH CHAPTER 11B, DIVISION I, PART 2, TITLE 24, CCR. **C)** PROVIDE PERMANENT ROOM ACCESSIBILITY SIGNAGE COMPLYING WITH CHAPTER 11B, DIVISION I, PART 2, TITLE 24, CCR. **D)** PROVIDE DIRECTIONAL AND INFORMATIONAL ACCESSIBILITY SIGNAGE COMPLYING WITH CHAPTER 11B, DIVISION I, PART 2, TITLE 24, CCR

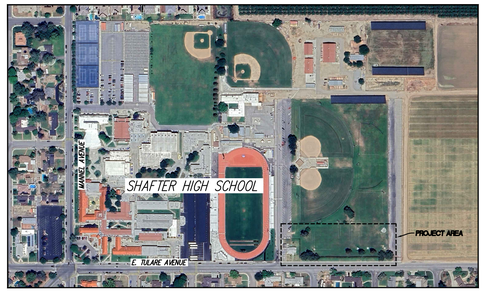
GENERAL NOTES

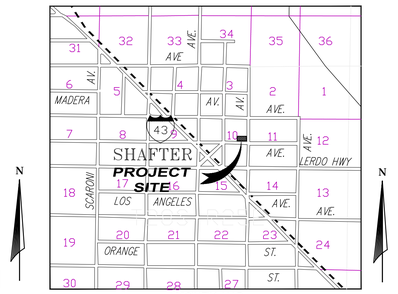
1. ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE REQUIREMENTS OF THE CODES AND ALL APPLICABLE LOCAL ORDINANCES. WHERE CONTRACT DOCUMENTS EXCEED SUCH REQUIREMENTS, WITHOUT VIOLATING SUCH CODES, REGULATIONS AND ORDINANCES, CONTRACT DOCUMENTS TAKE PRECEDENCE. WHERE CODES CONFLICT, THE MORE STRINGENT SHALL APPLY.
2. DURING THE CONSTRUCTION PERIOD, IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN CONDITIONS AT THE PROJECT SITE, TO MEET THE REQUIREMENTS OF THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND CALIFORNIA OCCUPATIONAL REGULATIONS . THIS PROVISION SHALL COVER THE CONTRACTOR'S EMPLOYEES AND ALL OTHER PERSONS WORKING UPON OR VISITING THE SITE. THE CONTRACTOR SHALL BECOME FULLY INFORMED OF ALL APPLICABLE STANDARDS AND REGULATIONS AND INFORM ALL PERSONS AND REPRESENTATIVES RESPONSIBLE FOR WORK UNDER THIS CONTRACT.
3. CONFIRM ALL NEW AND EXISTING CONDITIONS WITH THE CONTRACT DOCUMENTS. NOTIFY ARCHITECT IMMEDIATELY IN WRITING OF ALL DISCREPANCIES OR CONFLICTS. DO NOT PROCEED WITH WORK IN THE AREA OF DISCREPANCY OR CONFLICT UNTIL DIRECTION IS GIVEN BY ARCHITECT. IF THE CONTRACTOR PROCEEDS WITHOUT DIRECTION FROM ARCHITECT, IT SHALL BE AT CONTRACTORS RISK, AND CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED CORRECTIVE ACTION.
4. REVIEW THE ARCHITECTURAL DRAWINGS BEFORE THE INSTALLATION OF SYSTEMS SHOWN ON CONSULTING ENGINEERS DOCUMENTS. DISCREPANCIES BETWEEN THE ARCHITECTURAL AND CONSULTING ENGINEER'S DOCUMENTS SHALL BE BROUGHT TO ARCHITECT'S ATTENTION FOR DIRECTION. CONSTRUCTION INSTALLED IN CONFLICT WITH THE ARCHITECTURAL DRAWINGS SHALL BE CORRECTED BY CONTRACTOR AT NO EXPENSE TO THE OWNER.
5. DO NOT SCALE THE CONSTRUCTION DOCUMENTS. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED GRAPHICS. NOTIFY ARCHITECT IMMEDIATELY IN WRITING OF ALL ADDITIONAL REQUIRED DIMENSIONS. DO NOT PROCEED WITH WORK IN THE AREA OF DISCREPANCY OR CONFLICT UNTIL DIRECTION IS GIVEN BY ARCHITECT. IF THE CONTRACTOR PROCEEDS WITHOUT DIRECTION FROM ARCHITECT IT SHALL BE AT CONTRACTORS RISK, AND CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED CORRECTIVE ACTION.
6. CORRECT ALL WORK INSTALLED IN CONFLICT WITH THE CONSTRUCTION DOCUMENTS BY CONTRACTOR AS DIRECTED BY ARCHITECT AND AT NO ADDITIONAL EXPENSE TO THE OWNER.
7. VISIT JOB SITE PRIOR TO BEGINNING WORK AND VERIFY ALL DIMENSIONS.
8. SECURE AND PAY FOR ALL PERMITS, GOVERNMENTAL FEES AND LICENSES REQUIRED FOR PROPER COMPLETION OF THE WORK. REQUEST ALL INSPECTIONS REQUIRED BY LOCAL GOVERNMENTAL AGENCIES AND COORDINATE THE WORK ACCORDINGLY.
9. WHERE WORK OR EQUIPMENT IS INDICATED "N.I.C." (NOT IN CONTRACT) ON THE DRAWINGS, SUCH WORK AND/OR EQUIPMENT SHALL BE PROVIDED BY OTHERS. CONTRACTOR SHALL COORDINATE AND COOPERATE TO EFFECT SUCH INSTALLATION.
10. ALL PLAN DIMENSIONS FOR MASONRY AND CONCRETE REPRESENT FACE OF MATERIAL AND OPENING U.N.O.
11. ALL PLAN DIMENSIONS FOR EXTERIOR STUD WALLS REPRESENT FACE OF SHEATHING U.N.O.
12. ALL PLAN DIMENSIONS FOR INTERIOR STUD WALLS REPRESENT FACE OF STUD U.N.O.
13. ALL PLAN DIMENSIONS SHOWN AT CENTER OF WALL REPRESENT CENTER LINE OF STUD OR STRUCTURAL ELEMENT UNLESS NOTED OTHERWISE.
14. DIMENSIONS ARE NOT ADJUSTABLE WITHOUT THE REVIEW OF ARCHITECT UNLESS NOTED (+/-) OR "VERIFY". DIMENSIONS NOTED "HOLD" SHALL BE CONSIDERED AS ABSOLUTE AND USED FOR LAY-OUT CONTROL UNLESS OTHERWISE DIRECTED BY ARCHITECT.
15. ALL PLAN DIMENSIONS MARKED "CLEAR" OR "CLR" ARE TO FACE OF FINISH, TYPICAL.
16. ALL HEIGHTS ARE DIMENSIONED FROM TOP OF SLAB UNLESS NOTED "AFF" (ABOVE FINISH FLOOR).
17. "TYPICAL" MEANS COMPARABLE CHARACTERISTICS FOR THE ELEVATION OR DETAIL NOTED. WHEN A DETAIL OR NOTE IS IDENTIFIED AS "TYPICAL", CONTRACTOR SHALL APPLY THIS DETAIL OR NOTE TO EVERY LIKE CONDITION, WHETHER OR NOT THE REFERENCE IS REPEATED IN EVERY INSTANCE. VERIFY DIMENSIONS AND ORIENTATION ON PLANS.
18. PROVIDE WORK NOT SPECIFICALLY DETAILED OR SPECIFIED IN ACCORDANCE WITH DETAILS OR SIZES COVERING SIMILAR WORK.
19. "SIMILAR" MEANS COMPARABLE CHARACTERISTICS FOR THE ELEVATION OR DETAIL NOTED VERIFY DIMENSIONS AND ORIENTATION ON PLANS.
20. ABBREVIATIONS THROUGHOUT THE DOCUMENTS COMPLY WITH DOCUMENT ABBREVIATION LIST OR ARE THOSE IN COMMON USE. ARCHITECT WILL DEFINE THE INTENT OF ANY IN QUESTION.
21. REFER TO THE PROJECT MANUAL FOR GENERAL CONDITIONS, SUPPLEMENTARY AND SPECIAL CONDITIONS, AND OTHER REQUIREMENTS.
22. PROVIDE BARRICADES AND PROTECTIVE DEVICES SEPARATING CONSTRUCTION AREAS. PROVIDE TEMPORARY PASSAGES AS REQUIRED. PRIOR TO DELIVERY OF MATERIALS TO CONSTRUCTION ZONE AND REMOVAL OF WASTE FROM SITE, CHECK WITH OWNER FOR ACCEPTABLE ACCESS ROUTE AND TIME. UNDER NO CIRCUMSTANCES USE AREA OUTSIDE THE CONSTRUCTION ZONE WITHOUT PRIOR CLEARANCE FROM THE OWNER. COMPLY WITH REQUIREMENTS AS SPECIFIED IN PROJECT MANUAL.
23. PROVIDE FOR THE PROPER SEQUENCE OF CONSTRUCTION, LOCATION AND SIZE OF OPENINGS. COORDINATE ALL CONSTRUCTION AS INDICATED BY THE CONTRACT DOCUMENTS, INCLUDING SHOP DRAWINGS REVIEWED BY ARCHITECT.
24. REMOVE ALL TRASH AND DEBRIS DAILY. DO NOT STORE BUILDING MATERIALS IN CORRIDORS AT ANY TIME. COMPLY WITH REQUIREMENTS AS SPECIFIED IN PROJECT MANUAL.
25. VERIFY POINTS OF CONNECTION, INCLUDING SIZES AND LOCATIONS, AND ALL OTHER REQUIRED OPERATING CRITERIA WITH EQUIPMENT MANUFACTURER.
26. COORDINATE THE LOCATION AND TYPE OF ALL ACCESS PANELS REQUIRED FOR ACCESSING MECHANICAL, PLUMBING, ELECTRICAL AND OTHER BUILDING SYSTEMS WITH ARCHITECT.
27. CONTRACTOR SHALL STIPULATE THAT ALL PROPOSED SUBSTITUTIONS ARE EQUAL IN PERFORMANCE AND COMPLY WITH APPLICABLE CODES AND ARE EQUAL IN PERFORMANCE AND COMPLY WITH APPLICABLE CODES AND REGULATIONS. CONTRACTOR'S SUBSTITUTION OF ALTERNATE MATERIALS OR SYSTEMS SHALL BE AT NO ADDITIONAL COST TO OWNER.
28. CONTRACTOR SHALL INSURE ALL CONSTRUCTION SHALL REMAIN ACCESSIBLE AND EXPOSED FOR INSPECTION PURPOSES UNTIL APPROVED BY THE INSPECTOR OF RECORD. FOR CONTINUOUS INSPECTION, TESTING, AND OBSERVATION REQUIREMENTS, REFER TO THE TESTING AND OBSERVATION PROGRAM.

MASTER KEYNOTE LIST

0-101	EXISTING CHAINLINK FENCE TO REMAIN
0-103	EXISTING 20-FOOT-WIDE GATE TO REMAIN
1-101	EXISTING FENCE TO BE MODIFIED
1-102	DEMOLISH CONCRETE SHOTPUT
1-103	DEMOLISH TREE; SEE LANDSCAPE
1-104	DEMOLISH PARKING STRIPING
1-105	DEMOLISH EXISTING FENCE. TERMINATE FABRIC TO NEAREST LINE POST
1-106	DEMOLISH (E) CHAINLINK GATE
03 15 16.01	
03 30 00.05	SLOPE STRUCTURAL SLAB TO FLOOR DRAINS AT 2% MAX. IN ALL DIRECTIONS, TYP.
05 10 00	STRUCTURAL METAL FRAMING
05 12 00	STRUCTURAL STEEL FRAMING
05 12 13	ARCHITECTURALLY-EXPOSED STRUCTURAL STEEL FRAMING; TO BE PAINTED EPT-01 PER FINISH SCHEDULE
05 51 33.01	ROOF ACCESS LADDER PER DETAIL 10/A-831
06 11 00	WOOD FRAMING
07 21 16	BLANKET INSULATION
07 41 13.01	NEW STANDING SEAM METAL ROOF AT STEEP SLOPED ROOFS.
07 41 13.02	EXPOSED CORRUGATED METAL ROOF
07 50 00	MEMBRANE ROOFING
07 62 00.03	PARAPET COPING; COLOR TO MATCH SIDING
07 72 00.01	NEW OSHA-COMPLIANT ROOF HATCH PER DETAIL 5/A-831
07 72 00.02	FREESTANDING ROOF EDGE PROTECTION RAILING SYSTEM W/ RUBBER PADS AT BOTTOMS OF POST BASES, 42" MIN. HEIGHT, COMPLIANT W/ CBC 1015.8 AND CAL OSHA SUBSECTIONS 1620 AND 3210
07 72 64	BIRD NETTING AT THE UNDERSIDE OF METAL SHADE STRUCTURE AND DECK. MOUNT PER MANUFACTURER.
08 31 13.01	PROVIDE (1) 24X36 EXTERIOR LOUVERED ACCESS DOOR AT EACH ENCLOSED ATTIC SPACE, TYP.
08 33 23	OVERHEAD COILING DOORS
08 41 00	ENTRANCES AND STOREFRONTS
08 41 13.01	ALUMINUM-FRAMED STOREFRONT SYSTEM; SEE STOREFRONT SCHEDULE
08 51 13	ALUMINUM WINDOWS
09 29 00	GYPSUM BOARD
09 30 13.01	METAL EDGE STRIP AT TILE TRANSITION
09 51 13.01	SUSPENDED FREE-FLOAT CEILING, REFER TO DETAIL 1 / A-862
09 68 00	CARPETING
09 68 13.01	WALK-OFF MATS
09 77 00.01	3M ENVISION PRINT WALL WRAP - LX480mC, 2-MIL, NON-PVC FILM WITH 3M ENVISION WRAP OVERLAMINATE - 8549L, LUSTER FINISH
09 84 00.01	FABRIC-COVERED ACOUSTICAL PANELS
10 11 00.01	INTERACTIVE DISPLAY TOUCHSCREEN WHITEBOARD
10 11 00.02	TOUCHSCREEN WHITEBOARD FRAME
10 11 00.03	TACKBOARD
10 11 00.04	MARKERBOARD
10 11 23	TACKBOARDS
10 12 00.01	RECESSED TROPHY CASE
10 14 00.01	(E) BIKE LANE AND BEGIN SIGN; PROVIDE (N) 12X18 ROW PASSENGER LOADING ZONE SIGNAGE PER DETAIL 11/A-812 BELOW BEGIN SIGN
10 14 00.02	(N) 12X18 ROW PASSENGER LOADING ZONE SIGNAGE PER DETAIL 11/A-812 @ 100' INTERVALS, TYP. OF 5
10 14 00.03	(N) 12X18 'BUSES ONLY' SIGNAGE PER DETAIL 13/A-812
10 14 00.04	(N) SAFE DISPERSAL AREA SIGNAGE PER DETAIL 29/A-801
10 14 00.05	(N) STOP SIGN PER DETAIL 14/A-812
10 14 19.01	MONUMENT SIGNAGE PER DETAIL 15/A-811
10 14 67.01	SIGN TO BE UPSIZED TO MATCH SIGN ON OPPOSITE SIDE OF GLASS
10 21 13.19	PLASTIC TOILET COMPARTMENTS
10 28 00.01	TOILET TISSUE DISPENSER
10 28 00.02	SEAT COVER DISPENSER
10 28 00.03	GRAB BARS; REFER TO DETAIL 11/A-801 FOR INSTALLATION DIMENSIONS NOT SHOWN ON PLANS OR ELEVATIONS
10 28 00.04	SANITARY NAPKIN DISPOSAL UNIT, SURFACE-MOUNTED
10 28 00.05	18X30 MIRROR
10 28 00.06	SOAP DISPENSER
10 28 00.08	WARM-AIR HAND DRYER, 4" MAX PROJECTION; REFER TO ELECTRICAL FOR POWER REQUIREMENTS
10 28 00.09	FULL-LENGTH MIRROR
10 28 00.10	WALL HOOK
10 28 00.11	FEMININE PRODUCT DISPENSER
10 28 00.12	PAPER TOWEL DISPENSER AND WASTE RECEPTACLE
10 28 00.13	DRINKING FOUNTAIN PROTRUSION PROTECTION GRAB BAR
10 41 16.01	PROVIDE (N) KNOX BOX
10 44 16	FIRE EXTINGUISHERS
10 44 16.01	D.LDRECESSED FIRE EXTINGUISHER CABINET. MOUNTED PER DETAIL 7/A-822
10 73 16	CANOPIES; TO BE PAINTED EPT-01 PER FINISH SCHEDULE
10 73 16.01	LINE OF CANOPY ABOVE, TYP.
10 73.26	WALKWAY COVERINGS
10 75 16	GROUND-SET FLAGPOLES
11 21 23.13	MERCHANDISE VENDING MACHINE, O.F.O.I.
11 28 23.01	COPIER, O.F.O.I.
11 41 13	REFRIGERATED FOOD STORAGE CASES, O.F.O.I.
11 46 83.01	FLOOR-MOUNTED ICE MACHINE, O.F.O.I.
11 68 23.13	EXTERIOR BASKETBALL EQUIPMENT
12 30 00.01	CUSTOM LOBBY WORKSTATION AND CHECK-IN COUNTER
12 36 00	COUNTERTOPS
22 14 23.01	ROOF DRAIN AND OVERFLOW DRAIN, WHERE OCCURS; REFER TO PLUMBING
22 42 13.13	FLOOR-MOUNTED COMMERCIAL WATER CLOSET
22 42 16.13	WALL-HUNG COMMERCIAL LAVATORY; REFER TO PLUMBING; PROVIDE UNDER-LAVATORY GUARD AT EXPOSED PIPES. CLEARANCES PER 17/A-801.
22 42 16.16	COMMERCIAL SINKS
22 42 16.17	MOP SINK
22 47 13.01	HI/LOW HYDRATION STATION WITH BOTTLE FILLER; REFER TO PLUMBING
23 00 00.01	NEW ROOFTOP MECHANICAL EQUIPMENT; REFER TO MECHANICAL
25 56 13.02	MONUMENT SIGNAGE LIGHTING; REFER TO ELECTRICAL
26 05 33.01	ELECTRICAL PULL BOX PER ELECTRICAL.
26 56 00.01	LIGHT FIXTURES MOUNTED TO UNDERSIDE OF STRUCTURE; SEE ELECTRICAL
26 56 00.02	WALL PACK; SEE ELECTRICAL
32 16 00.01	PROVIDE RED CURB STRIPING WITH 3" TALL, WHITE STENCILED LETTERS 'FIRE LANE – NO PARKING – CVC 22500.1' @ 25'-0" MAX. INTERVALS
32 16 00.02	PROVIDE RED STRIPING WITH 3" TALL, WHITE STENCILED LETTERS 'FIRE LANE – NO PARKING – CVC 22500.1' @ 25'-0" MAX. INTERVALS
32 16 13.01	PROVIDE CONCRETE CURB AROUND PERIMETER OF TRASH ENCLOSURE
32 17 13.01	PRECAST CONCRETE WHEEL STOP PER 26/A-812
32 17 23.01	6" WHITE PAINTED STRIPE
32 17 23.02	12" TALL 'BUS ONLY' WHITE PAINTED LETTER







VICINITY MAP
N.T.S.

LEGEND:

ABBREVIATIONS:

(E)	EXISTING
TYP.	TYPICAL
FD.	FOUND
BK.	BOOK
PG.	PAGE
C.O.K.	COUNTY OF KERN
C.O.B.	CITY OF BAKERSFIELD
CONC	CONCRETE
A.C.	ASPHALT PAVEMENT
FG	FINISH GRADE
EP	EDGE OF PAVEMENT
TC	TOP OF CURB
FL	FLOWLINE
FF	FINISHED FLOOR
FP	FINISHED PAD
TP	TOP OF PAVEMENT
GB	GRADE BREAK
CL	CHAIN LINK
W	WROUGHT IRON

- EXISTING FIRE HYDRANT
- EXISTING POWER POLE
- EXISTING STREET LIGHT
- FOUND MONUMENT
- EXISTING TRAFFIC SIGN
- EXISTING STADIUM LIGHTING
- EXISTING STORM DRAIN LINE
- EXISTING FIBER OPTIC LINE
- EXISTING WATER LINE
- EXISTING SEWER LINE
- EXISTING GAS LINE
- EXISTING FENCELINE
- EXISTING ELECTRIC LINE
- EXISTING OVERHEAD ELECTRIC LINE
- EXISTING PROPERTY LINE
- EXISTING RIGHT-OF-WAY
- EXISTING CURB & GUTTER

VERTICAL DATUM

THE VERTICAL DATUM FOR THIS SURVEY IS BASED ON GPS OBSERVATIONS UTILIZING AN NAVD88 GEOID 12B (CONUS) PROJECTION

LOCAL BENCHMARK

THE LOCAL BENCHMARK FOR THIS PROJECT IS TAKEN FROM A SCRIBED "X" ON THE LIP OF A CONCRETE V-GUTTER LOCATED IN THE PARKING LOT ON THE EAST SIDE OF THE FOOTBALL FIELD APPROXIMATELY 321 FEET NORTH OF THE EXISTING CURB AND GUTTER FLOWLINE ALONG E. TULARE AVENUE, HAVING AN ELEVATION OF 353.78' (SEE "VERTICAL DATUM" REFERENCED ABOVE)

BASIS OF BEARINGS

THE GRID BEARING OF N01°16'57"E SHOWN FOR THE EAST LINE OF THE NORTHEAST QUARTER OF SECTION 10, T.28S., R.25E., M.D.M. AS SHOWN UPON FILED MAP 7-1, FILED IN BOOK 7 AT PAGE 76 IN THE OFFICE OF THE COUNTY SURVEYOR, KERN COUNTY CALIFORNIA WAS USED AS THE BASIS OF BEARINGS AS SHOWN HEREON.

LEGAL DESCRIPTION

LOT 13 OF THE SALES MAP OF THE KERN COUNTY LAND COMPANY IN SECTION 10, T.28S., R.25E. M.D.M. IN THE CITY OF SHAFTER, COUNTY OF KERN, STATE OF CALIFORNIA, ACCORDING TO THE MAP THEREOF RECORDED MARCH 25, 1949 IN BOOK 6 AT PAGE 11, OF RECORD OF SURVEYS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.
EXCEPTING THEREFROM THE NORTH 330 FEET THEREOF.

LOT 14 AND THE NORTH 330 FEET OF LOT 13 OF THE SALES MAP OF THE KERN COUNTY LAND COMPANY IN SECTION 10, T.28S., R.25E. M.D.M. IN THE CITY OF SHAFTER, COUNTY OF KERN, STATE OF CALIFORNIA, ACCORDING TO THE MAP THEREOF RECORDED MARCH 25, 1949 IN BOOK 6 AT PAGE 11, OF RECORD OF SURVEYS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

LOTS 15 AND 16 OF THE SALES MAP OF THE KERN COUNTY LAND COMPANY IN SECTION 10, T.28S., R.25E. M.D.M. IN THE CITY OF SHAFTER, COUNTY OF KERN, STATE OF CALIFORNIA, ACCORDING TO THE MAP THEREOF RECORDED MARCH 25, 1949 IN BOOK 6 AT PAGE 11, OF RECORD OF SURVEYS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

ADDRESS

526 MANNEL AVENUE, SHAFTER, CA

APN

028-010-05

UTILITY NOTE

NOT ALL UTILITIES WERE LOCATED BY THIS SURVEY AND SWANSON ENGINEERING, INC. ASSUMES NO RESPONSIBILITY FOR UNDERGROUND UTILITIES OR FACILITIES NOT SHOWN OR FOR INFORMATION OBTAINED FROM OUTSIDE SOURCES.

DISTURBED SITE AREA

2.3 ACRES

SWANSON ENGINEERING, INC.
2000 Oak Street, Suite 150 — Bakersfield, CA 93301
p:(661) 831-4819; f:(661) 873-4777
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JOB# 24-064 RTS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125726 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/28/2026

SGPA
ARCHITECTURE AND PLANNING
3111 CAMINO DEL RIO NORTH,
STUDIO 500
SAN DIEGO, CA 92108
619.297.0131
WWW.SGPA.COM

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KERN HIGH SCHOOL DISTRICT
5801 SUNDALE AVE.
BAKERSFIELD, CA 93309

CENTRAL VALLEY
CONTINUATION HIGH SCHOOL CAMPUS
526 MANNEL AVENUE
SHAFTER, CA 93263

DRAWING SUBMITTAL SCHEDULE

	100% CONSTRUCTION DOCUMENTS	11/21/2025
	DWG V2	02/27/2026
	DWG V3	04/28/2026

REGISTERED PROFESSIONAL ENGINEER — ROBERT T. SWANSON — No. 43032 — EXP. 3-31-28 — CIVIL — STATE OF CALIFORNIA

PROJECT NO: 22434-E-01

TITLE SHEET

C-1

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CENTRAL VALLEY CONTINUATION HIGH SCHOOL CAMPUS
526 MANNEL AVENUE
SHAFTER, CA 93263

DRAWING SUBMITTAL SCHEDULE	
100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

REGISTERED PROFESSIONAL ENGINEER
ROBERT F. SWANSON
No. 43032
EXP. 3-31-28
CIVIL
STATE OF CALIFORNIA

PROJECT NO: 22434-E-01

GRADING PLAN

C-2

SCALE: 1" = 20'
20 10 0 20 40

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E TULARE AVENUE
ELM STREET
OAK STREET
N

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KERN HIGH SCHOOL DISTRICT
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526 MANNEL AVENUE
SHAFTER, CA 93263

DRAWING SUBMITTAL SCHEDULE

100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

REGISTERED PROFESSIONAL ENGINEER
ROBERT T. SWANSON
No. 43032
EXP. 3-31-28
CIVIL
STATE OF CALIFORNIA

PROJECT NO: 22434-E-01

SITE UTILITY PLAN

C-3

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p:(661) 831-4919; f:(661) 873-4777

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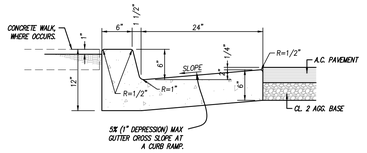
JOB# 24-064 RTS

SCALE: 1" = 20'
20 10 0 20 40

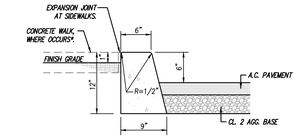
N

E TULARE AVENUE
ELM STREET
OAK STREET
Existing Parking
Drop-Off
Loading
Trash
Serving Pay
Kitchen
GIRLS
BOYS
Classroom
Classroom
Classroom
F.F.=355.70
F.F.=356.10
MEDIA RESOURCE CENTER
COMPUTER LAB
STORAGE
SCIENCE
ART
STORAGE
Paxton Patterson Lab
ELECTRICAL
CAP FOR FUTURE
SEWER PIPE UNDER BUILDING TO BE AN APPROVED PIPE PER THE 2025 CPC
INSTALL 8" FIRE SERVICE WITH 8" DOUBLE DETECTOR CHECK VALVE AND CONDUIT TO ALARM PANEL
INSTALL SIAMESE FDC WITH WATER CHECK
INSTALL FIRE HYDRANT
INSTALL 2" DOMESTIC WATER SERVICE WITH RP ASSEMBLY
INSTALL 2" LANDSCAPE WATER SERVICE WITH RP ASSEMBLY
INSTALL 2 - 2" LONG SERVICE
HOT-TAP 6" HYDRANT SERVICE USING STAINLESS STEEL TAPPING SLEEVE
HOT-TAP 6" FIRE SERVICE USING STAINLESS STEEL TAPPING SLEEVE
SEE DETAIL 8B/14/C6
SPLASH BLOCK INTO PLANTER
6" MONITORED PIV W/ CONDUIT TO ALARM
8" TEE W/ 8"x6" REDUCER
8"x6" REDUCER
Parent Center/ Conference 465 SF
SECURITY/COMMUNITY SPECIALIST
Special Ed Director 250 SF
OPEN OFFICE
Substance abuse Counselor Office 104 SF
Intervention Specialist Office 104 SF
Conference 304 SF
SOCIAL WORKER
STAFF RR
Staff Lounge 257 SF
COUNSELING OFFICE
SITE ADMINISTRATION OFFICE
LACTATION
RECORDS
Staff Workroom 1,138 SF
HEALTH OFFICE
OUTSIDE FIRE SPRINKLER RISER
Front Counter 243 SF
Lobby 243 SF
(E) 8" SEWER @ 0.27%
(E) 4'± CHAINLINK FENCE
(E) ELEC PB
(E) IRRIG CONTROL VALVE (TYP OF 5)
EDGE OF GRASS
(E) 2" CURB
(E) LIGHT STANDARD
(E) V-GUTTER
LOCAL BM: SET SCRIBED "X" ON VC LIP ELEVATION = 353.78'
CONNECT TO WATER LINE ON BLEACHERS (SEE ARCHITECTURAL PLANS)
(E) 6'± CHAINLINK FENCE
(E) IRRIG CONTROL VALVE (TYP OF 4)
(E) GOAL POST
(E) 45' CHAINLINK FENCE
(E) 16" CI
(E) SEWER MH
INV 350.70 INV 8"
(E) 3' V-GUTTER
(E) CHAINLINK GATE
(E) CL GATE
(E) CONC STANDPIPE
(E) GARAGE TF = 353.73'
(E) EP
(E) BOLLARD
(E) BUILDING TF = 355.44'
(E) MOW CURB
(E) IRRIG CONTROL VALVE (TYP OF 5)
(E) 6"± CHAINLINK FENCE
(E) ELEC RISER
(E) AC GRADE BREAK
(E) STEPS
(E) RAMP
(E) SIGN-GUY
(E) SIGN
(E) SEWER MH 4" INV 349.4
(E) SEWER CLEANOUT TOP=349.55 INV=349.15
(E) WOOD SIGN
(E) SIGN POST (NO SIGN-TYP)
(E) 8" SEWER (RECORD)
(E) 6'± CHAINLINK FENCE
APPROXIMATE LOCATION OF (E) SEWER MH/RECORD - NOT FOUND
(E) SIDEWALK
(E) DRIVEWAY
(E) 8" SEWER (RECORD)
(E) 10" WATER MAIN
(E) IRRIG CONTROL VALVE (TYP OF 2)
(E) 16" CHANNEL
DRAINAGE SWALE
(E) 1'± CHAINLINK FENCE (NOT SURVEYED)
(E) 6" CHAINLINK FENCE
(E) 1'± CHAINLINK FENCE (NOT SURVEYED)
(E) 1'± CHAINLINK FENCE (NOT SURVEYED)
(E) 6'± CHAINLINK FENCE
(E) 4'± CHAINLINK FENCE
(E) CHAINLINK GATE
(E) AC
(E) CONCRETE
(E) TURF
(E) GRASS
(E) DRAINAGE BASIN
(E) CHANNEL
(E) 1'± CHAINLINK FENCE (NOT SURVEYED)



NOTE:
CLASS "3" CONCRETE (5 1/2 SACK)
EXPANSION JOINTS EA. 30'
WEAKENED PLANE JTS. EA. 15'
POUR ON COMPACTED SUBGRADE

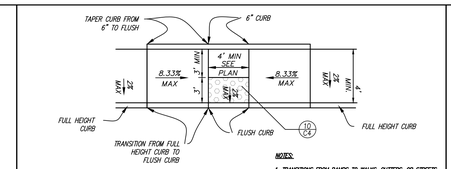
1 / C4 — 6" CURB AND GUTTER



* 12" WIDE CONCRETE STRIP WHERE CURB IS ADJACENT TO PARKING STALLS (SEE PLAN). CONCRETE TO BE 4" THICK, CLASS "3" CONCRETE (5 1/2 SACK). JOINTS TO MATCH CURB. POUR ON COMPACTED SUBGRADE.

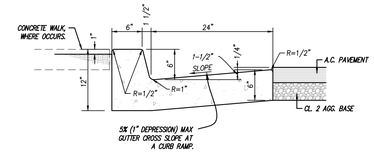
NOTE:
CLASS "3" CONCRETE (5 1/2 SACK)
EXPANSION JOINTS EA. 30'
WEAKENED PLANE JTS. EA. 15'
POUR ON COMPACTED SUBGRADE

2 / C4 — 6" CONCRETE CURB



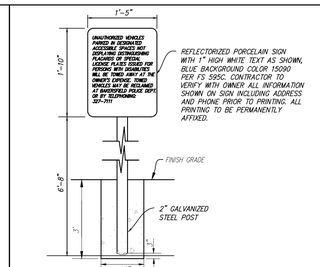
NOTES:
1. TRANSITIONS FROM RAMPS TO WALKS, GUTTERS, OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES.
2. CLASS "3" CONCRETE (5 ½ SACK); POUR ON COMPACTED SUBGRADE.

3 / C4 — ACCESSIBLE DROP-DOWN CURB RAMP

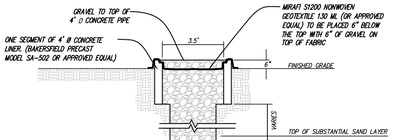


NOTE:
CLASS "3" CONCRETE (5 1/2 SACK)
EXPANSION JOINTS EA. 30'
WEAKENED PLANE JTS. EA. 15'
POUR ON COMPACTED SUBGRADE

4 / C4 — 6" CURB AND GUTTER W 1-1/2" DEPRESSION



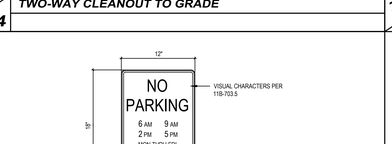
5 / C4 — ACCESSIBLE PARKING LOT ENTRANCE SIGN



NOTE:
CLASS "3" CONCRETE (5 1/2 SACK)
EXPANSION JOINTS EA. 40'
WEAKENED PLANE JTS. EA. 20'

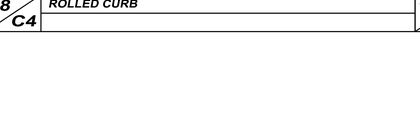
U.S.Q. UNLESS SPECIFIED OTHERWISE.

6 / C4 — 4' V-GUTTER W/ 2" DEPRESSION



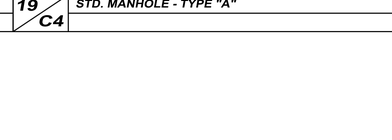
NOTES:
1. TRANSITIONS FROM RAMPS TO WALKS, GUTTERS, OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES.
2. CLASS "3" CONCRETE (5 ½ SACK); POUR ON COMPACTED SUBGRADE.

7 / C4 — ACCESSIBLE CURB RAMP

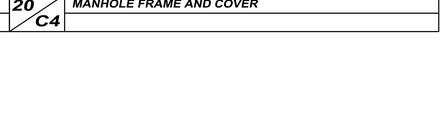


NOTES:
2. TRANSITIONS FROM RAMPS TO WALKS, GUTTERS, OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES.
3. CLASS "3" CONCRETE (5 ½ SACK); POUR ON COMPACTED SUBGRADE.

8 / C4 — WHEELCHAIR RAMP



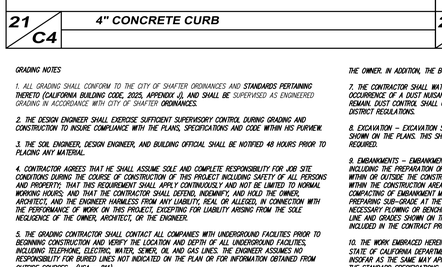
9 / C4 — ACCESSIBLE PARKING SPACE SIGN



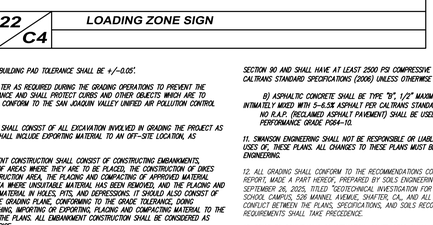
NOTES:
1. DOMES ARE TO MEET ALL A.D.A. REQUIREMENTS.
2. NO GLUE DOWN DOMES ARE TO BE USED.
3. 118-705.1.1.3.1 DETECTABLE WARNING SURFACES SHALL BE YELLOW AND APPROXIMATE FS 33538 OF SAE AMS-STD 595A.

RAISED TRUNCATED DOME PATTERN (IN-LINE) DETECTABLE WARNING SURFACE.

10 / C4 — TRUNCATED DOMES



11 / C4 — ACCESSIBLE PARKING STALL

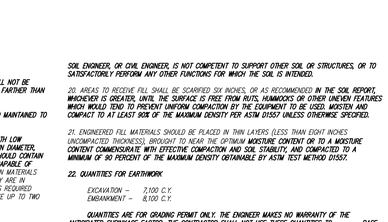


NOTE:
GRATE TO BE VANDALPROOF, IN TIGHT TRAFFIC AREAS, GRATE TO BE ADA COMPLIANT.

12 / C4 — CATCH BASIN

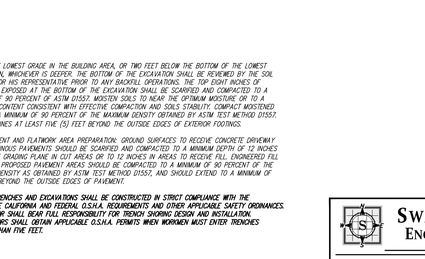
NOTE:
CLASS "3" CONCRETE (5 1/2 SACK)
EXPANSION JOINTS EA. 30'
WEAKENED PLANE JTS. EA. 15'
POUR ON COMPACTED SUBGRADE

13 / C4 — FLUSH CURB



CONFORM TO DIMENSIONS IN 2022 C.B.C. SECTION 118-703.7.2.1

14 / C4 — INTERNATIONAL ACCESSIBILITY SYMBOL



NOTE:
GRATE TO BE MODEL V12-71W C.B.C. 11B COMPLIANT GRATE. GRATE TO BE VANDALPROOF.

15 / C4 — CHRISTY V-12 DRAIN

NOTE:
MAXIMUM OVERALL DEPTH OF 50'

16 / C4 — FIELD DRYWELL

17 / C4 — TWO-WAY CLEANOUT TO GRADE

* 12" WIDE CONCRETE STRIP WHERE CURB IS ADJACENT TO PARKING STALLS (SEE PLAN). CONCRETE TO BE 4" THICK, CLASS "3" CONCRETE (5 1/2 SACK). JOINTS TO MATCH CURB. POUR ON COMPACTED SUBGRADE.

NOTE:
CLASS "3" CONCRETE (5 1/2 SACK)
EXPANSION JOINTS EA. 30'
WEAKENED PLANE JTS. EA. 15'
POUR ON COMPACTED SUBGRADE

18 / C4 — ROLLED CURB

NOTES:
1. ALL WORK SHALL CONFORM TO THE APPLICABLE SECTIONS OF THE SPECIFICATIONS ENTITLED "STANDARD SPECIFICATIONS, STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION", CURRENT EDITION.
2. ALL UNLINED MANHOLE JOINTS SHALL BE FILLED WITH NON SEAL OR APPROVED EQUAL. BOOK OF MANHOLES MUST BE MORTARED AND NEATLY RAKED OF WIPED ON INSIDE OF PIPE.
3. PRECAST REINFORCED MANHOLE SECTIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF ASTM C-478, CURRENT EDITION.
4. ALL SEWER MANHOLES, FOR SEWER LINES LARGER THAN 15" IN DIAMETER, SHALL BE LINED WITH "I-LOCK" OR APPROVED EQUAL.
5. CONCRETE PAD SHALL BE CURED WITH A WATER BASED CURING COMPOUND AS PER SECTION 90-7.03B OF THE STANDARD SPECIFICATIONS.
6. ALL CHANNELS SHALL BE SMOOTH FINISHED WITH STEEL TROWEL. SHELF SHALL BE BROOM FINISHED FOR SLIP RESISTANCE.

19 / C4 — STD. MANHOLE - TYPE "A"

20 / C4 — MANHOLE FRAME AND COVER

* 12" WIDE CONCRETE STRIP WHERE CURB IS ADJACENT TO PARKING STALLS (SEE PLAN). CONCRETE TO BE 4" THICK, CLASS "3" CONCRETE (5 1/2 SACK). JOINTS TO MATCH CURB. POUR ON COMPACTED SUBGRADE.

NOTE:
CLASS "3" CONCRETE (5 1/2 SACK)
EXPANSION JOINTS EA. 30'
WEAKENED PLANE JTS. EA. 15'
POUR ON COMPACTED SUBGRADE

21 / C4 — 4" CONCRETE CURB

22 / C4 — LOADING ZONE SIGN

GRADING NOTES

1. ALL GRADING SHALL CONFORM TO THE CITY OF SHAFTER ORDINANCES AND STANDARDS PERTAINING THERETO (CALIFORNIA BUILDING CODE, 2025, APPENDIX J), AND SHALL BE SUPERVISED AS ENGINEERED GRADING IN ACCORDANCE WITH CITY OF SHAFTER ORDINANCES.

2. THE DESIGN ENGINEER SHALL EXERCISE SUFFICIENT SUPERVISORY CONTROL DURING GRADING AND CONSTRUCTION TO INSURE COMPLIANCE WITH THE PLANS, SPECIFICATIONS AND CODE WITHIN HIS PURVIEW.

3. THE SOIL ENGINEER, DESIGN ENGINEER, AND BUILDING OFFICIAL SHALL BE NOTIFIED 48 HOURS PRIOR TO PLACING ANY MATERIAL.

4. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT; INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER, ARCHITECT, AND THE ENGINEER HARMLESS FROM ANY LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER, ARCHITECT, OR THE ENGINEER.

5. THE GRADING CONTRACTOR SHALL CONTACT ALL COMPANIES WITH UNDERGROUND FACILITIES PRIOR TO BEGINNING CONSTRUCTION AND VERIFY THE LOCATION AND DEPTH OF ALL UNDERGROUND FACILITIES, INCLUDING TELEPHONE, ELECTRIC, WATER, SEWER, OIL AND GAS LINES. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR BURIED LINES NOT INDICATED ON THE PLAN OR FOR INFORMATION OBTAINED FROM OUTSIDE SOURCES. (USA – 811)

6. THE GRADING CONTRACTOR SHALL BE RESPONSIBLE FOR GRADING ALL AREAS TO + OR – 0.10 FOOT. IF AN AREA SHOULD BE FOUND TO BE MORE THAN 0.10 FOOT OUT OF TOLERANCE AFTER COMPACTING AND COMPLETION OF GRADING, THE CONTRACTOR SHALL RETURN AND CORRECT THE GRADING AT NO COST TO THE OWNER. IN ADDITION, THE BUILDING PAD TOLERANCE SHALL BE +/–0.05'.

7. THE CONTRACTOR SHALL WATER AS REQUIRED DURING THE GRADING OPERATIONS TO PREVENT THE OCCURRENCE OF A DUST NUISANCE AND SHALL PROTECT CURBS AND OTHER OBJECTS WHICH ARE TO REMAIN. DUST CONTROL SHALL CONFORM TO THE SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT REGULATIONS.

8. EXCAVATION – EXCAVATION SHALL CONSIST OF ALL EXCAVATION INVOLVED IN GRADING THE PROJECT AS SHOWN ON THE PLANS. THIS SHALL INCLUDE EXPORTING MATERIAL TO AN OFF–SITE LOCATION, AS REQUIRED.

9. EMBANKMENTS – EMBANKMENT CONSTRUCTION SHALL CONSIST OF CONSTRUCTING EMBANKMENTS, INCLUDING THE PREPARATION OF AREAS WHERE THEY ARE TO BE PLACED, THE CONSTRUCTION OF DIKES WITHIN OR OUTSIDE THE CONSTRUCTION AREA, THE PLACING AND COMPACTING OF APPROVED MATERIAL WITHIN THE CONSTRUCTION AREA WHERE UNSUITABLE MATERIAL HAS BEEN REMOVED, AND THE PLACING AND COMPACTING OF EMBANKMENT MATERIAL IN HOLES, PITS, AND DEPRESSIONS. IT SHOULD ALSO CONSIST OF PREPARING SUB–GRADE AT THE GRADING PLANE, CONFORMING TO THE GRADE TOLERANCE, DOING NECESSARY FLOWING OR BENCHING, IMPORTING OR EXPORTING, PLACING AND COMPACTING MATERIAL TO THE LINE AND GRADES SHOWN ON THE PLANS. ALL EMBANKMENT CONSTRUCTION SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT PRICE.

10. THE WORK EMBRACED HEREIN SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS OF THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION DATED JULY 2018 (UNLESS OTHERWISE SPECIFIED), INSOFAR AS THE SAME MAY APPLY IN ACCORDANCE WITH THE NOTES HEREON. IN CASE OF CONFLICT WITH THE STANDARD SPECIFICATIONS AND ANY NOTES HEREON, THE NOTES HEREON SHALL TAKE PRECEDENCE OVER AND BE USED IN LIEU OF SUCH CONFLICTING PORTIONS. SAID SPECIFICATIONS SHALL APPLY BUT NOT BE LIMITED TO THE FOLLOWING:

A) ALL CONCRETE SHALL BE CLASS "3" USING TYPE II/V CEMENT AS IN ACCORDANCE WITH SECTION 90 AND SHALL HAVE AT LEAST 2500 PSI COMPRESSIVE STRENGTH AT 28 DAYS, PER CALTRANS STANDARD SPECIFICATIONS (2006) UNLESS OTHERWISE SPECIFIED.

B) ASPHALTIC CONCRETE SHALL BE TYPE "B", 1/2" MAXIMUM, MEDIUM GRADED, AND INITIALLY MIXED WITH 5–6.5% ASPHALT PER CALTRANS STANDARD SPECIFICATIONS (2006).
NO R.A.P. (RECLAIMED ASPHALT PAVEMENT) SHALL BE USED. ASPHALT SHALL BE PERFORMANCE GRADE PG64–10.

11. SWANSON ENGINEERING SHALL NOT BE RESPONSIBLE OR LIABLE FOR UNAUTHORIZED CHANGES TO, OR USES OF, THESE PLANS. ALL CHANGES TO THESE PLANS MUST BE APPROVED, IN WRITING, BY SWANSON ENGINEERING.

12. ALL GRADING SHALL CONFORM TO THE RECOMMENDATIONS CONTAINED IN THE PRELIMINARY SOILS REPORT, MADE A PART HEREOF, PREPARED BY SOILS ENGINEERING, INC., FILE NO. 25–20477, DATED SEPTEMBER 26, 2025, TITLED "GEOTECHNICAL INVESTIGATION FOR THE CENTRAL VALLEY CONTINUATION HIGH SCHOOL CAMPUS, 526 MANNEL AVENUE, SHAFTER, CA., AND ALL ADDENDA THERETO. IN CASE OF A CONFLICT BETWEEN THE PLANS, SPECIFICATIONS, AND SOILS RECOMMENDATIONS, THE MORE STRINGENT REQUIREMENTS SHALL TAKE PRECEDENCE.

13. PRIOR TO COMMENCING CONSTRUCTION, CONTRACTOR SHALL POTHOLE ALL UTILITIES THAT WILL BE AFFECTED BY THIS CONSTRUCTION TO DETERMINE IF ANY UTILITY CONFLICTS EXIST. ANY UTILITY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER SO THAT DESIGN CHANGES CAN BE MADE PRIOR TO THE START OF CONSTRUCTION.

14. UPON COMPLETION OF GRADING AND BEFORE THE START OF CONSTRUCTION, A FINAL SOILS REPORT SHALL BE PREPARED BY THE SOIL ENGINEER.

15. THE SOIL ENGINEER SHALL REVIEW ALL EXCAVATIONS PRIOR TO BACKFILLING AND SHALL BE NOTIFIED OF ANY ITEM ENCOUNTERED DURING THE GRADING OPERATIONS THAT MIGHT AFFECT FOUNDATION STABILITY SO THAT RECOMMENDATIONS CAN BE MADE BY THE SOIL ENGINEER.

16. CUT AND FILL SLOPES NEARER THAN FIVE FEET FROM THE BUILDING FOUNDATIONS SHALL NOT BE STEEPER THAN 5:1. CUT AND FILL SLOPES SHALL NOT BE STEEPER THAN 2:1 FOR SLOPES FARTHER THAN FIVE FEET FROM FOOTING LINES.

17. ALL SLOPES GREATER THAN THREE FEET IN VERTICAL HEIGHT SHALL BE PREPARED AND MAINTAINED TO PREVENT EROSION.

18. IMPORTED FILL MATERIAL SHOULD CONSIST OF ESSENTIALLY GRANULAR, SILTY SANDS WITH LOW EXPANSION POTENTIAL AND FREE OF GRASSES, WEEDS, ROCKS LARGER THAN TWO INCHES IN DIAMETER, DEBRIS, AND SOLUBLE SULFATES IN EXCESS OF 200 PARTS PER MILLION. IMPORTED FILL SHOULD CONTAIN SUFFICIENT SILT AND CLAY BINDER TO RENDER THEM STABLE IN FOOTING TRENCHES AND CAPABLE OF MAINTAINING SPECIFIED ELEVATION TOLERANCES DURING PAVING OPERATIONS. ANY EARTHEN MATERIALS PROPOSED TO BE BROUGHT ONTO SCHOOL SITES ARE SUBJECT TO TESTING TO VERIFY THEY ARE IN COMPLIANCE WITH DTSC STANDARDS. OWNER SHALL DETERMINE IF TESTING OF MATERIALS IS REQUIRED PRIOR TO ANY MATERIAL BEING BROUGHT ONTO THE SITE. TESTING OF MATERIALS MAY TAKE UP TO TWO WEEKS TO VERIFY COMPLIANCE WITH DTSC STANDARDS.

IMPORTED SOILS SHOULD ALSO MEET THE FOLLOWING CRITERIA:

A) MAXIMUM % PASSING #200 SIEVE 50
B) MAXIMUM LIQUID LIMIT 40
C) MAXIMUM PLASTICITY INDEX 14
D) MINIMUM R–VALUE 50
E) MAXIMUM EXPANSION INDEX 20

19. CLEARING AND GRUBBING – REMOVE ALL DEBRIS, SUCH AS METAL, TRASH, ROCKS GREATER THAN 2" IN DIAMETER, BROKEN CONCRETE, VEGETATION, OTHER BIODEGRADABLE SUBSTANCES, AND UNSUITABLE SOIL FROM AREAS TO BE GRADED. UNSUITABLE SOIL IS SOIL THAT, IN THE OPINION OF THE BUILDING OFFICIAL, SOIL ENGINEER, OR CIVIL ENGINEER, IS NOT COMPETENT TO SUPPORT OTHER SOIL OR STRUCTURES, OR TO SATISFACTORILY PERFORM ANY OTHER FUNCTIONS FOR WHICH THE SOIL IS INTENDED.

20. AREAS TO RECEIVE FILL SHALL BE SCARIFIED SIX INCHES, OR AS RECOMMENDED IN THE SOIL REPORT, WHICHEVER IS GREATER, UNTIL THE SURFACE IS FREE FROM RUTS, HUMMOCKS OR OTHER UNEVEN FEATURES WHICH WOULD TEND TO PREVENT UNIFORM COMPACTION BY THE EQUIPMENT TO BE USED. MOISTEN AND COMPACT TO AT LEAST 90% OF THE MAXIMUM DENSITY PER ASTM D1557 UNLESS OTHERWISE SPECIFIED.

21. ENGINEERED FILL MATERIALS SHOULD BE PLACED IN THIN LAYERS (LESS THAN EIGHT INCHES UNCOMPACTED THICKNESS), BROUGHT TO NEAR THE OPTIMUM MOISTURE CONTENT OR TO A MOISTURE CONTENT COMMENSURATE WITH EFFECTIVE COMPACTION AND SOIL STABILITY, AND COMPACTED TO A MINIMUM OF 90 PERCENT OF THE MAXIMUM DENSITY OBTAINABLE BY ASTM TEST METHOD D1557.

22. QUANTITIES FOR EARTHWORK

EXCAVATION – 7,100 C.Y.
EMBANKMENT – 6,100 C.Y.

QUANTITIES ARE FOR GRADING PERMIT ONLY. THE ENGINEER MAKES NO WARRANTY OF THE ANTICIPATED SHRINKAGE FACTOR. THE CONTRACTOR SHALL NOT USE THESE QUANTITIES TO BASE HIS BID ON. THE GRADING PLAN DOES NOT NECESSARILY INDICATE A BALANCED SITE. CONTRACTOR SHALL BE RESPONSIBLE FOR IMPORTING MATERIALS FROM AN OFF–SITE LOCATION OR EXPORTING EXCESS MATERIAL TO AN OFF–SITE LOCATION, AS NEEDED.

23. CONTRACTOR TO VERIFY DIMENSIONS AND ELEVATIONS OF EXISTING IMPROVEMENTS IN THE FIELD BEFORE PROCEEDING WITH WORK. ANY DISCREPANCIES THAT WILL AFFECT TIE–INS TO EXISTING IMPROVEMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH ANY WORK.

24. BUILDING PAD PREPARATION: EXCAVATE EARTH MATERIAL TO A MINIMUM DEPTH OF FIVE (5) FEET BELOW THE LOWEST GRADE IN THE BUILDING AREA, OR TWO FEET BELOW THE BOTTOM OF THE LOWEST FOUNDATION, WHICHEVER IS DEEPER. THE BOTTOM OF THE EXCAVATION SHALL BE REVIEWED BY THE SOIL ENGINEER OR HIS REPRESENTATIVE PRIOR TO ANY BACKFILL OPERATIONS. THE TOP EIGHT INCHES OF MATERIALS EXPOSED AT THE BOTTOM OF THE EXCAVATION SHALL BE SCARIFIED AND COMPACTED TO A MINIMUM OF 90 PERCENT OF ASTM D1557. MOISTEN SOILS TO NEAR THE OPTIMUM MOISTURE OR TO A MOISTURE CONTENT CONSISTENT WITH EFFECTIVE COMPACTION AND SOILS STABILITY. COMPACT MOISTENED SOILS TO A MINIMUM OF 90 PERCENT OF THE MAXIMUM DENSITY OBTAINED BY ASTM TEST METHOD D1557. WORK TO LINES AT LEAST FIVE (5) FEET BEYOND THE OUTSIDE EDGES OF EXTERIOR FOOTINGS.

25. PAVEMENT AND FLATWORK AREA PREPARATION: GROUND SURFACES TO RECEIVE CONCRETE DRIVEWAY AND BITUMINOUS PAVEMENTS SHOULD BE SCARIFIED AND COMPACTED TO A MINIMUM DEPTH OF 12 INCHES BELOW THE GRADING PLANE IN CUT AREAS OR TO 12 INCHES IN AREAS TO RECEIVE FILL. ENGINEERED FILL PLACED IN PROPOSED PAVEMENT AREAS SHOULD BE COMPACTED TO A MINIMUM OF 90 PERCENT OF THE MAXIMUM DENSITY AS OBTAINED BY ASTM TEST METHOD D1557, AND SHOULD EXTEND TO A MINIMUM OF TWO FEET BEYOND THE OUTSIDE EDGES OF PAVEMENT.

26. ALL TRENCHES AND EXCAVATIONS SHALL BE CONSTRUCTED IN STRICT COMPLIANCE WITH THE APPLICABLE CALIFORNIA AND FEDERAL O.S.H.A. REQUIREMENTS AND OTHER APPLICABLE SAFETY ORDINANCES. CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR TRENCH SHORING DESIGN AND INSTALLATION. CONTRACTORS SHALL OBTAIN APPLICABLE O.S.H.A. PERMITS WHEN WORKMEN MUST ENTER TRENCHES GREATER THAN FIVE FEET.

SWANSON ENGINEERING, INC.
2000 Oak Street, Suite 150 ~ Bakersfield, CA 93301
p:(661) 831-4919; f:(661) 873-4777

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JOB# 24-064 RTS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125726 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/28/2026

SGPA
ARCHITECTURE AND PLANNING
3111 CAMINO DEL RIO NORTH, STUDIO 500
SAN DIEGO, CA 92108
619.297.0131
WWW.SGPA.COM

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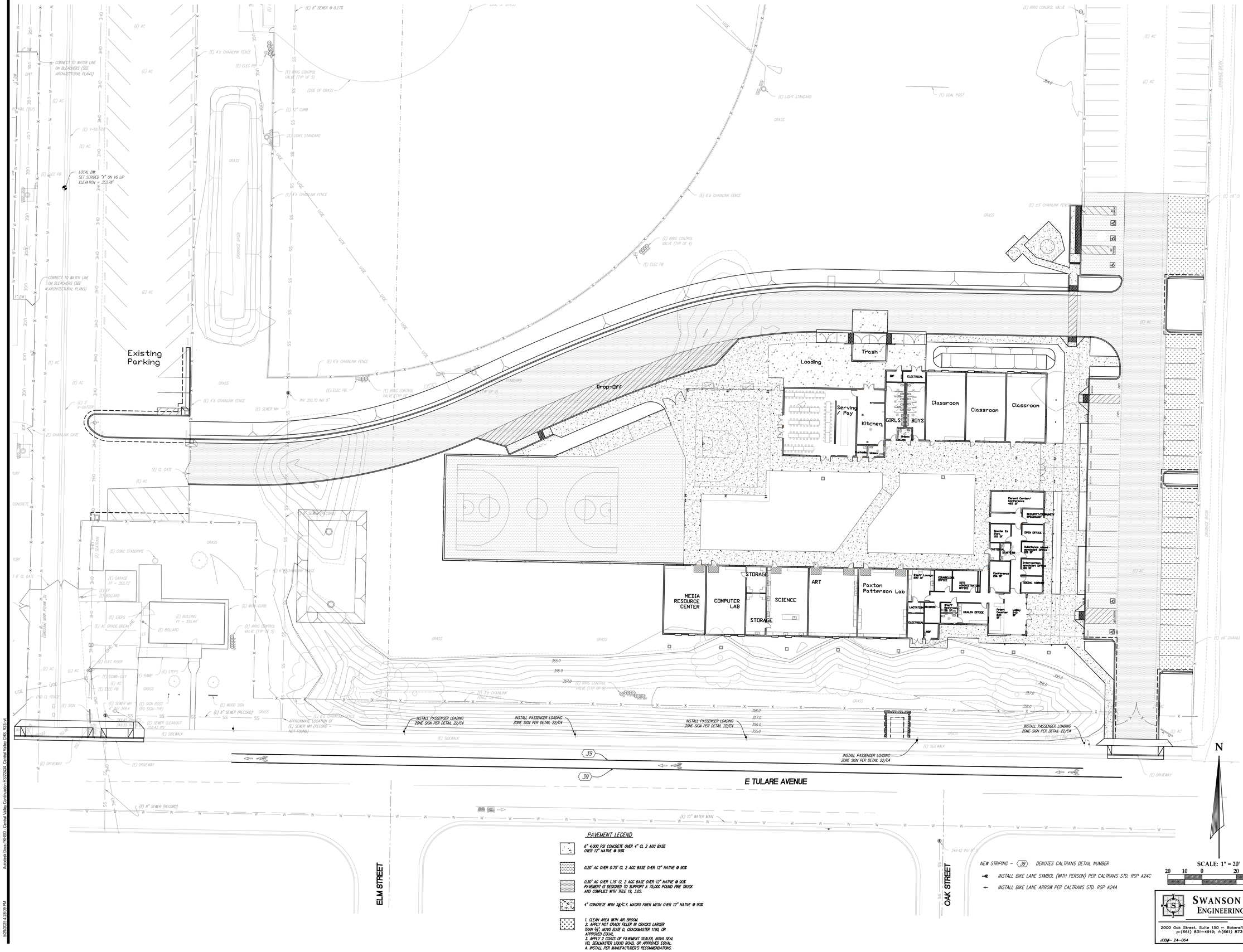
KERN HIGH SCHOOL DISTRICT
5801 SUNDALE AVE.
BAKERSFIELD, CA 93309

CENTRAL VALLEY
CONTINUATION HIGH SCHOOL CAMPUS
526 MANNEL AVENUE
SHAFTER, CA 93263

DRAWING SUBMITTAL SCHEDULE	
100% C



PAVEMENT LEGEND

6" 4,000 PSI CONCRETE OVER 4" CL 2 AGG BASE OVER 12" NATIVE @ 90%

0.20' AC OVER 0.75' CL 2 AGG BASE OVER 12" NATIVE @ 90%

0.30' AC OVER 1.15' CL 2 AGG BASE OVER 12" NATIVE @ 90% PAVEMENT IS DESIGNED TO SUPPORT A 75,000 POUND FIRE TRUCK AND COMPLIES WITH TITLE 19, 3.05.

4" CONCRETE WITH 3#/C.Y. MACRO FIBER MESH OVER 12" NATIVE @ 90%

1. CLEAN AREA WITH AIR BROOM.
2. APPLY HOT CRACK FILLER IN CRACKS LARGER THAN ¼". NOVO ELITE D, CHROMASTER 1190, OR APPROVED EQUAL.
3. APPLY 2 COATS OF PAVEMENT SEALER, NOVA SEAL HD, SEALMASTER LIQUID ROAD, OR APPROVED EQUAL.
4. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

NEW STRIPING – (39) DENOTES CALTRANS DETAIL NUMBER

INSTALL BIKE LANE SYMBOL (WITH PERSON) PER CALTRANS STD. RSP A24C

INSTALL BIKE LANE ARROW PER CALTRANS STD. RSP A24A

SWANSON ENGINEERING, INC.
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KERN HIGH SCHOOL DISTRICT
5801 SUNDALE AVE.
BAKERSFIELD, CA 93309

CENTRAL VALLEY CONTINUATION HIGH SCHOOL CAMPUS
526 MANNEL AVENUE
SHAFTER, CA 93263

DRAWING SUBMITTAL SCHEDULE	
100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

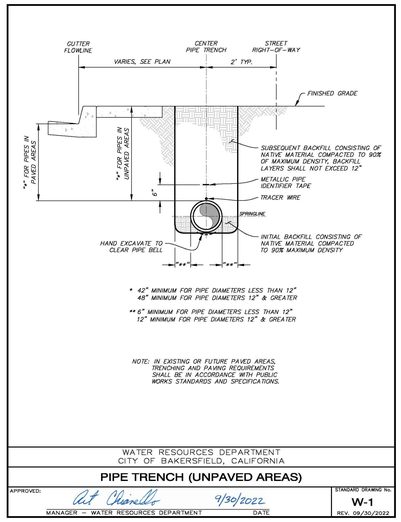
REGISTERED PROFESSIONAL ENGINEER
TIMOTHY S. SWANSON
No. 43032
EXP. 3-31-28
CIVIL
STATE OF CALIFORNIA

PROJECT NO: 22434-E-01

PAVEMENT PLAN

C-5

Autodesk Docs://KHSD_Central Valley Continuation HS/22434_Central Valley CHS_R23.rvt
5/29/2025 4:28:09 PM



* 42" MINIMUM FOR PIPE DIAMETERS LESS THAN 12"
48" MINIMUM FOR PIPE DIAMETERS 12" & GREATER

** 6" MINIMUM FOR PIPE DIAMETERS LESS THAN 12"
12" MINIMUM FOR PIPE DIAMETERS 12" & GREATER

NOTE: IN EXISTING OR FUTURE PAVED AREAS, TRENCHING AND PAVING REQUIREMENTS SHALL BE IN ACCORDANCE WITH PUBLIC WORKS STANDARDS AND SPECIFICATIONS.

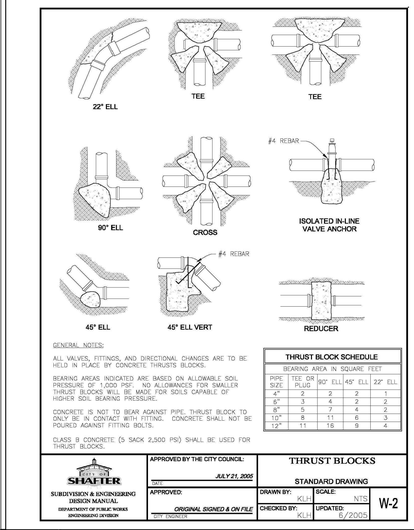
WATER RESOURCES DEPARTMENT
CITY OF BAKERSFIELD, CALIFORNIA

PIPE TRENCH (UNPAVED AREAS)

APPROVED: _____ 4/30/2022
MANAGER – WATER RESOURCES DEPARTMENT — DATE

STANDARD DRAWING No.: W-1
REV. 09/30/2022

1 / C6 — W-1 PVC/HDPE TRENCH DETAIL



GENERAL NOTES:

ALL VALVES, FITTINGS, AND DIRECTIONAL CHANGES ARE TO BE HELD IN PLACE BY CONCRETE THRUSTS BLOCKS.

BEARING AREAS INDICATED ARE BASED ON ALLOWABLE SOIL PRESSURE OF 1,000 PSF. NO ALLOWANCES FOR SMALLER THRUST BLOCKS WILL BE MADE FOR SOILS CAPABLE OF HIGHER SOIL BEARING PRESSURE.

CONCRETE IS NOT TO BEAR AGAINST PIPE. THRUST BLOCK TO ONLY BE IN CONTACT WITH FITTING. CONCRETE SHALL NOT BE POURED AGAINST FITTING BOLTS.

CLASS B CONCRETE (5 SACK 2,500 PSI) SHALL BE USED FOR THRUST BLOCKS.

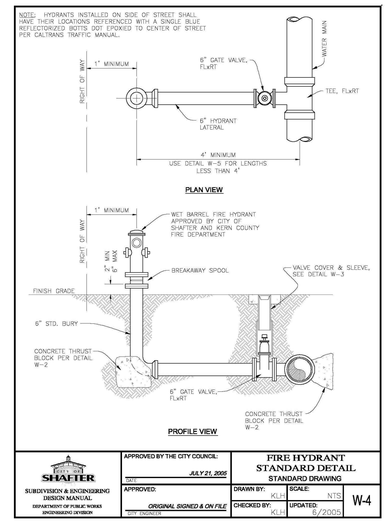
THRUST BLOCK SCHEDULE

	BEARING AREA IN SQUARE FEET			
PIPE SIZE	TEE OR PLUG	90° ELL	45° ELL	22° ELL
4"	2	2	2	1
6"	3	4	2	2
8"	5	7	4	2
10"	8	11	6	3
12"	11	16	9	4

SHAFTER — SUBDIVISION & ENGINEERING DESIGN MANUAL — DEPARTMENT OF PUBLIC WORKS — ENGINEERING DIVISION

APPROVED BY THE CITY COUNCIL: DATE: JULY 21, 2005
APPROVED: CITY ENGINEER — ORIGINAL SIGNED & ON FILE
THRUST BLOCKS
STANDARD DRAWING
DRAWN BY: KLH — SCALE: NTS
CHECKED BY: KLH — UPDATED: 6/2005
W-2

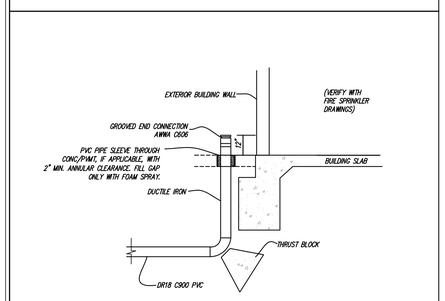
2 / C6 — W-2 THRUST BLOCK DETAIL



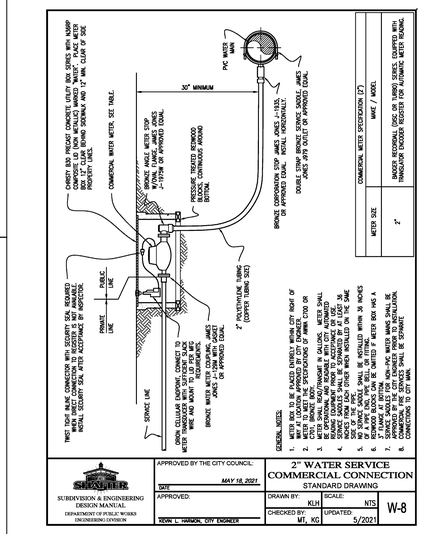
SHAFTER — SUBDIVISION & ENGINEERING DESIGN MANUAL — DEPARTMENT OF PUBLIC WORKS — ENGINEERING DIVISION

APPROVED BY THE CITY COUNCIL: DATE: JULY 21, 2005
APPROVED: CITY ENGINEER — ORIGINAL SIGNED & ON FILE
FIRE HYDRANT STANDARD DETAIL
STANDARD DRAWING
DRAWN BY: KLH — SCALE: NTS
CHECKED BY: KLH — UPDATED: 6/2005
W-4

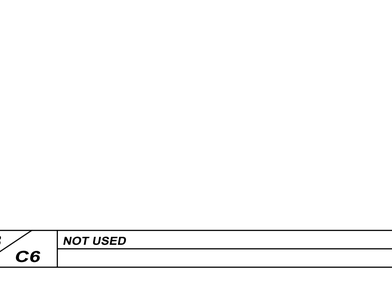
3 / C6 — W-3 FIRE HYDRANT



6 / C6 — FIRE SPRINKLER RISER - EXTERIOR



8 / C6 — W-8 TWO-INCH WATER SERVICE



GENERAL NOTES:

CONCRETE SLAB SHOWN ONLY REQUIRED IN PAVED AREAS. FOR UNPAVED AREAS USE A CHRISTY G-5 PRECAST CONCRETE VALVE COVER.

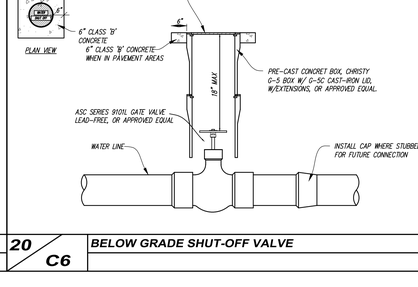
AT THE OPTION OF THE CITY ENGINEER, MINIMUM DEPTH OF THE WATER LINE MAY BE INCREASED IF THE RESULTING TOP OF THE VALVE STEM IS LESS THAN 12" BELOW FINISH GRADE.

ISOLATED GATE VALVES SHALL HAVE THRUST BLOCKS PER CITY DETAIL W-2.

SHAFTER — SUBDIVISION & ENGINEERING DESIGN MANUAL — DEPARTMENT OF PUBLIC WORKS — ENGINEERING DIVISION

APPROVED BY THE CITY COUNCIL: DATE: JULY 21, 2005
APPROVED: CITY ENGINEER — ORIGINAL SIGNED & ON FILE
WATER VALVE COVER & SLEEVE
STANDARD DRAWING
DRAWN BY: KLH — SCALE: NTS
CHECKED BY: KLH — UPDATED: 5/2005
W-3

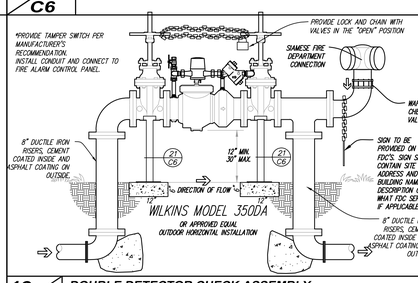
12 / C6 — W-12 VALVE BOX



AA — PIV INSTALLATION

BB — PIV INSTALLATION

14 / C6 — POST INDICATOR VALVE DETAILS



19 / C6 — DOUBLE DETECTOR CHECK ASSEMBLY

18 / C6 — NOT USED

20 / C6 — BELOW GRADE SHUT-OFF VALVE

MUELLER® A-20806/A-20807 SHALLOW BURY ADJUSTABLE VERTICAL INDICATOR POST

INSTALLATION INSTRUCTIONS

Supervisory Control Valve Switch:
Figures E and F illustrate attachment of the Supervisory Control Valve Switch (supplied by customer).

INSTALLATION
Post Targets must be positioned for use with the appropriate number of turns to open the post indicator valve. Improper positioning of the Targets can result in an erroneous indication of the open or shut position of the valve. The A-20806 Indicator Post will accommodate positioning of the Targets to operate PIVs requiring 14 to 43 turns to open; the A-20807 Indicator Post will accommodate positioning the Targets to operate PIVs requiring 49 to 75 turns to open.

NOTE
The Targets for the A-20806 Indicator Post have been factory set for use with a 6 inch Mueller® PIV and the Targets for the A-20807 Indicator Post have been factory set for a 24 inch Mueller PIV. Consequently, Steps 6 through 10 need not be performed when installing the A-20806 Post with a 6 inch Mueller PIV (or with a PIV that requires 20-1/2 turns to open) or the A-20807 Post with a 24 inch Mueller PIV (or with a PIV that requires 75 turns to open).

Proceed to install the Post as follows:

1. Completely close the PIV.

2. Place approximately 5 inch high blocks onto the stuffing box flange of the installed valve. Set the Indicator Post onto the blocks and generally centered over the PIV operating nut.

3. Slide out the Shipping Disk, and allow the Coupling (5b) to drop down over the PIV operating nut. Attach the Coupling to the operating nut with the Cotter Pin (5d).

4. Remove the blocks and lower the Indicator Post onto the PIV stuffing box flange. Bolt the Bell and stuffing box flange together using the four Cap Screws and Nuts (17, 18). Also at this time make certain that the three Cap Screws (6) securing the Bell (4) to the Lower Barrel (3) are uniformly tightened.

Fig. C

MUELLER® A-20806/A-20807 SHALLOW BURY ADJUSTABLE VERTICAL INDICATOR POST

INSTALLATION INSTRUCTIONS

NOTES
If the pipe is sloped, it may be necessary to shim some of the Cap Screws (17) with steel washers, so that the Post will be plumb and the Stem will run true with the center of the Post Head. Coupling clearances can accommodate a maximum pipe slope of 5 degrees.

It is recommended that a spirit level be used to set the vertical alignment of the Indicator Post.

5. Loosen the Set Screw (7), and lift the Post Head/ Upper Stem Assembly (1, 12) just high enough to insert a phillips head screwdriver through Hole "A" in the Upper Stem (12e). The phillips head screwdriver will temporarily hold the Post Head (1) above the upper Barrel (2).

6. Remove the Wrench (11), pry off the Cap (13), remove the Retaining Ring (14), and then lift the Post Head clear of the Upper Stem Assembly (12).

7. Position the Targets per Figure D.

8. Replace the Post Head (1), Retaining Ring (14), and Cap (13).

9. Remove the phillips head screwdriver, lower the Post Head, and tighten the Set Screw (7).

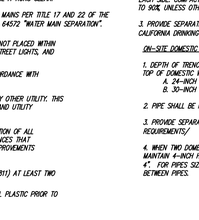
10. Using the Wrench (11), open and close the valve and check to see that the "SHUT" and "OPEN" Targets are clearly in view in the Windows, at their respective positions, and that there is no feeling of binding of the Upper or Lower Stem Assemblies (5, 12). It is recommended that the turns to open/close be counted and compared to the valve manufacturer's specification, in order to verify full valve opening.

NOTES
If there is any indication of binding of the internal operating parts, the vertical alignment of the Indicator Post must be corrected.

If the Target Plates are not properly in view, completely close the PIV and then repeat Steps 6 through 11.

11. Loosen the two Cap Screws (6) at the base of the Upper Barrel (2) and then slide the Post Head up until the Bury Line of the Post Head coincides with the planned finished grade. Tighten the two Set Screws (6) at the base of the Post Head with a torque of 40 to 60 ft lbs. When properly installed, the centerline of the Target Windows will be 30 inches above the finish grade.

Fig. D



A-20806 INDICATOR POST

NOTES
1. SET SHUT TARGET FIRST.
2. FOR VALVES MANUFACTURED BY OTHER THAN MUELLER COMPANY, SET TO DIMENSION 'Y' CALCULATED AS FOLLOWS:

NO. OF TURNS TO OPEN VALVE	14
'X' IN INCHES =	14

A-20807 INDICATOR POST

NOTES
1. SET SHUT TARGET FIRST.
2. FOR VALVES MANUFACTURED BY OTHER THAN MUELLER COMPANY, SET TO DIMENSION 'X' CALCULATED AS FOLLOWS:

NO. OF TURNS TO OPEN VALVE	22
'X' IN INCHES =	22

POSITIONING OF TARGETS

12. Back-fill to final grade and repeat Step 11.

13. Tighten the switch mounting hole plug if the Supervisory Control Valve Switch is not to be immediately attached.

14. Proceed to install the Supervisory Control Valve Switch (supplied by customer) - continued on next page.

15. Remove the Cover from the assembly, and then loosen the Trip Rod Locking Screw. Adjust the position of the Trip Rod so that it extends about 1-3/8 inches beyond the Nipple, and then securely tighten the Trip Rod Locking Screw.

MUELLER® A-20806/A-20807 SHALLOW BURY ADJUSTABLE VERTICAL INDICATOR POST

INSTALLATION INSTRUCTIONS

15a. Rotate the Post Operating Nut until the PIV is fully open. Note the position of one of the 'OPEN' Targets in its Window.

15b. Rotate the Operating Stem until the "OPEN" Targets are out of the Post Windows. Note the direction in which the "OPEN" Target will move when it is returned to the Post Window.

15c. Remove the Nipple from the assembly, and then with the Locknut screwed over the Nipple threads, hand tighten the Nipple into the 1/2 inch NPT hole provided in the Post Head, and then tighten the Locknut against the Post Head to secure the Nipple firmly in place.

15d. Refer to Figure E or F as appropriate, and note the direction in which the Trip Rod must move when the "OPEN" Target is returned to the Post Window.

Slide the assembly as far as possible onto the Nipple while maintaining proper orientation of the assembly, and then tighten the Set Screw that holds the assembly onto the Nipple.

15e. Attach leads from an electrical continuity meter to the appropriate terminals.

15f. Return the valve to its fully open position. Verify that the "OPEN" Target returns to the position noted in Step b. Also, verify that the Switch contacts change position within two turns of the valve being fully open.

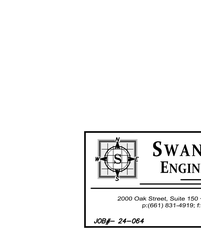
15g. Begin to return the valve to its closed position. Verify that the Switch contacts change back to their original position within two turns from full open.

NOTE
If the Upper Stem Assembly binds before the "OPEN" Target reaches its full open position, or the switch contacts do not change position as described in Steps g and h, then the Targets must be readjusted.

If the Targets require readjustment, close the PIV, remove the Switch assembly, and repeat Steps 6 and 11; however, when positioning the Targets, rotate both Targets at the same time as necessary so that the "OPEN" target will trip the Actuator Rod of the Switch. Repositioning of the "OPEN" and "SHUT" Targets relative to each other should not be necessary. Repeat Steps b through h.

15h. Remove the electrical continuity test leads. The external field wiring connections can now be made to the Switch.

Fig. E



ATTACHMENT OF THE SUPERVISORY CONTROL VALVE SWITCH FOR LEFT HAND OPENING VALVES

Fig. F

ATTACHMENT OF THE SUPERVISORY CONTROL VALVE SWITCH FOR RIGHT HAND OPENING VALVES

NOTE
Use of a weathertight conduit connector with a gasket seal is recommended.

17 / C6 — MUELLER CO. A20806 POST INDICATOR VALVE INSTALLATION DETAIL 3

15 / C6 — MUELLER CO. A20806 POST INDICATOR VALVE INSTALLATION DETAIL 1

16 / C6 — MUELLER CO. A20806 POST INDICATOR VALVE INSTALLATION DETAIL 2

21 / C6 — PIPE SUPPORT

PIPELINE PRODUCTS — Piping Tools that Work!

Economy Series Pipe Supports

Features: Economical steel support for pipes, valves or backflow prevention devices.

9" threaded riser provides 6" of adjustment.

30" tall base can be cut to length in the field as needed.

Size: Available in 3 standard sizes.

Material: Mild Steel

Finish: Zinc plated Saddle, threaded riser & nut for corrosion resistance. Base is available in standard powder coat red or optional hot-dipped galvanized finish.

Economy Series Pipe Supports				
Part No.	Saddle	Stand	Base Plate	Threaded Riser
PS-100-S	0.375" X 2"	1" SCH. 40	0.375" X 6" SQ.	1" X 9"
PS-150-S	0.375" X 2"	1.5" SCH. 40	0.375" X 6" SQ.	1.5" X 9"
PS-200-S	0.375" X 3"	2" SCH. 40	0.375" X 6" SQ.	2" X 9"

DIMENSIONS ARE IN INCHES | DO NOT SCALE DRAWING | DRW: OSBORNE | REV. A

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FIRE WATER NOTES:

1. FIRE WATER SERVICES SHALL CONFORM TO N.F.P. CHAPTER 13 SPECIFICATIONS AND SHALL BE INSPECTED BY CITY OF SHAFTER/ WATER DEPARTMENT INCLUDING ALL PIPING, KICKERS, CONNECTIONS FROM THE CITY WATER MAIN TO THE BUILDING, INCLUDING THE RISER.
2. AN INSPECTION REQUEST FORM SHALL BE SUBMITTED TO THE WATER RESOURCES OFFICE AT LEAST TWO (2) FULL BUSINESS DAYS BEFORE ANY PERMANENT CONSTRUCTION.
3.
4. ALL ANGLE POINTS WILL HAVE CONCRETE KICKERS AS PER CITY WATER STANDARDS.
5. FIRE DEPARTMENT CONNECTIONS SHALL BE LOCATED ON THE ADDRESS SIDE OF THE STRUCTURE AND SHALL BE A MAXIMUM DISTANCE OF 10 FEET FROM FLOWLINE OF CURB & GUTTER AND A MAXIMUM DISTANCE OF 100 FEET FROM A PUBLIC FIRE HYDRANT. FIRE HYDRANT SHALL HAVE A MINIMUM CLEARANCE OF 40 FEET FROM ANY STRUCTURE.
6. FIRE SERVICE SHALL NOT PASS THROUGH ANY FOOTINGS.
7. ANY FLOOR OR WALL PENETRATIONS SHALL BE SLEEVED WITH A ONE PIECE PIPE TO PROVIDE A MINIMUM ANNULAR CLEARANCE OF 2" AND FLEXIBLE MATERIAL SHALL BE PROVIDED WITHIN THE ANNULAR SPACE.
8. RISERS CONSTRUCTED WITHIN A BUILDING FOOTPRINT SHALL BE A STAINLESS STEEL ONE PIECE UNIT AND SHALL MAINTAIN A ONE FOOT MINIMUM CLEARANCE (18" MAX) FROM ALL WALLS. RISER SHALL TERMINATE 12" MINIMUM ABOVE FINISH FLOOR.
9. FIRE SERVICE SHALL BE TESTED BY CONTRACTOR AND DOCUMENTED BY THE WATER RESOURCES DEPARTMENT TO PASS A 200 PSI, 2 HR TEST.
10. TAMPER SWITCHES TO BE PROVIDED ON ALL CONTROL VALVES CONTROLLING 20 OR MORE FIRE SPRINKLERS.
11. PROVIDE BREAK AWAY LOCK AND CHAIN ON THE BACKFLOW DEVICE.
12. SIGN TO BE PROVIDED ON ALL FDC'S. SIGN SHALL CONTAIN SITE ADDRESS AND BUILDING NAME OR DESCRIPTION THE FDC SERVES, IF APPLICABLE.
13. DEPTH OF COVER FOR FIRE WATER LINES TO BE 30" IN NON DRIVEWAY AREAS, 36" UNDER DRIVEWAYS, AND 48" UNDER RAILWAYS.
14. PRESSURE TESTING AT 200 PSI (OR 50 PSI OVER WORKING PRESSURE, WHICHEVER IS GREATER) FOR 2 HOUR DURATION WITH NO LESS THAN 5 PSI LOSS SHALL BE REQUIRED.
15. FLUSH FIRE WATER MAINS AT A VELOCITY OF 10 FT/SEC UNTIL IT RUNS CLEAR.
16. PROVIDE SEPARATION BETWEEN SANITARY SEWER AND WATER MAINS PER TITLE 17 AND 22 OF THE CALIFORNIA DRINKING WATER STANDARDS, INCLUDING SECTION 64572 "WATER MAIN SEPARATION".
17. CONTRACTOR SHALL ENSURE THAT ALL FIRE HYDRANTS ARE NOT PLACED WITHIN FIVE FEET OF ANY EXISTING OR PROPOSED WALLS, FENCES, STREET LIGHTS, AND LANDSCAPING OR ANY OTHER OBSTRUCTIONS.
18. BACKFILL AND COMPACTION OF TRENCHES SHALL BE IN ACCORDANCE WITH STD. DWG. W-1, EXCEPT AS NOTED ON THE PLANS.
19. FIRE WATER LINE TRENCHES SHALL NOT BE SHARED WITH ANY OTHER UTILITY. THIS REQUIREMENT SHALL BE CLEARLY INDICATED ON THE WATER AND UTILITY PLANS FOR THE DEVELOPMENT.
20. CONTRACTOR SHALL VERIFY, BY POTHOLING, THE EXACT LOCATION OF ALL CONNECTION POINTS AND ALL OTHER UTILITIES OR APPURTENANCES THAT MAY POTENTIALLY INTERFERE WITH INSTALLATION OF WATER IMPROVEMENTS PRIOR TO PERFORMING ANY WORK.
21. CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (811) AT LEAST TWO WORKING DAYS PRIOR TO CONSTRUCTION, 1-800-227-2600.
22. WRAP ALL EXPOSED UNDERGROUND METAL FITTINGS WITH 10 MIL PLASTIC PRIOR TO BACKFILLING TO PREVENT CORROSION.

SEWER NOTES:

1. WYE FITTINGS SHALL BE INJECTION MOLDED IN-LINE TYPE AND SHALL BE USED FOR ALL LATERAL CONNECTIONS.
2. ALL SEWER STUBS SHALL BE CLOSED WITH A STANDARD PLASTIC PLUG, SOLVENT WELDED.
3. WATER JETTING AND FLOODING SHALL NOT BE USED FOR BACKFILL COMPACTION.
4. UNDERGROUND SERVICE ALERT (USA) SHALL BE NOTIFIED AT LEAST 2 WORKING DAYS BEFORE CONSTRUCTION. TELEPHONE (1-800-642-2444)
5. CONTRACTOR TO CALL FOR USA LOCATE AND POTHOLE ALL MARKED UTILITIES THAT CROSS OR ARE WITHIN 5' HORIZONTAL DISTANCE OF SEWER AND STORM DRAIN LINES. VERTICAL AND HORIZONTAL LOCATION SHALL BE ASCERTAINED BY THE CONTRACTOR AHEAD OF ANY EXCAVATIONS TO VERIFY THAT THE PROPOSED DESIGN DOES NOT CONFLICT WITH ANY UTILITIES. IN THE EVENT A CONFLICT EXISTS THE ENGINEER SHALL BE NOTIFIED IN ORDER TO REDESIGN THE ALIGNMENT. IF RELOCATION OF EXISTING UTILITIES IS DEEMED NECESSARY, THE CONTRACTOR SHALL BE COMPENSATED FOR INSTRUCTED RELOCATION. IF REDESIGN OF THE ALIGNMENT REQUIRES ADDITIONAL FITTINGS, PIPE, OR EXCAVATION THE CONTRACTOR SHALL BE COMPENSATED FOR REVISION. IN THE EVENT A UTILITY IS DAMAGED, THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR ITS REPAIR.
6. CONTRACTOR SHALL VERIFY LOCATIONS AND ELEVATIONS OF EXISTING SEWER AND STORM DRAIN LINES THAT THE NEW SYSTEM TIES INTO PRIOR TO TRENCHING. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER SO THAT ANY NECESSARY ADJUSTMENTS MAY BE MADE. UTILITIES SHALL BE THOROUGHLY RESEARCHED AND LOCATED BY THE CONTRACTOR PRIOR TO TRENCHING. CROSSING UTILITIES SHALL BE DAYLIGHTED AND CHECKED FOR GRADE BY THE CONTRACTOR PRIOR TO TRENCHING.
7. SEWER PIPES SHALL BE LAID STARTING AT THE LOW POINT OF THE SYSTEM WITH BELLS FACING UPSTREAM.

ON-SITE STORM DRAIN NOTES:

1. PIPE MATERIAL:
   A. FOR 18" AND SMALLER USE SDR35 PVC PER ASTM D3034
   B. FOR 18" AND LARGER USE CLIII RCP W/ RUBBER GASKET JOINTS PER ASTM C443.
   C. NO HDPE WILL BE ALLOWED
2. TRENCH:
   A. FOR PLASTIC PIPE, INSTALL PER DETAIL 1, SHEET C6.
   B. FOR CONCRETE PIPE, TRENCH SHALL BE 6"-9" WIDER THAN THE PIPE DIAMETER ON EACH SIDE. COMPACT TRENCH TO 85%, EXCEPT THE TOP 30", WHICH SHALL BE COMPACTED TO 90% UNLESS OTHERWISE SPECIFIED.
3. PROVIDE SEPARATION BETWEEN STORM DRAIN AND WATER MAINS PER TITLE 17 AND 22 OF THE CALIFORNIA DRINKING WATER STANDARDS, INCLUDING SECTION 64572 "WATER MAIN SEPARATION".

ON-SITE DOMESTIC WATER NOTES:

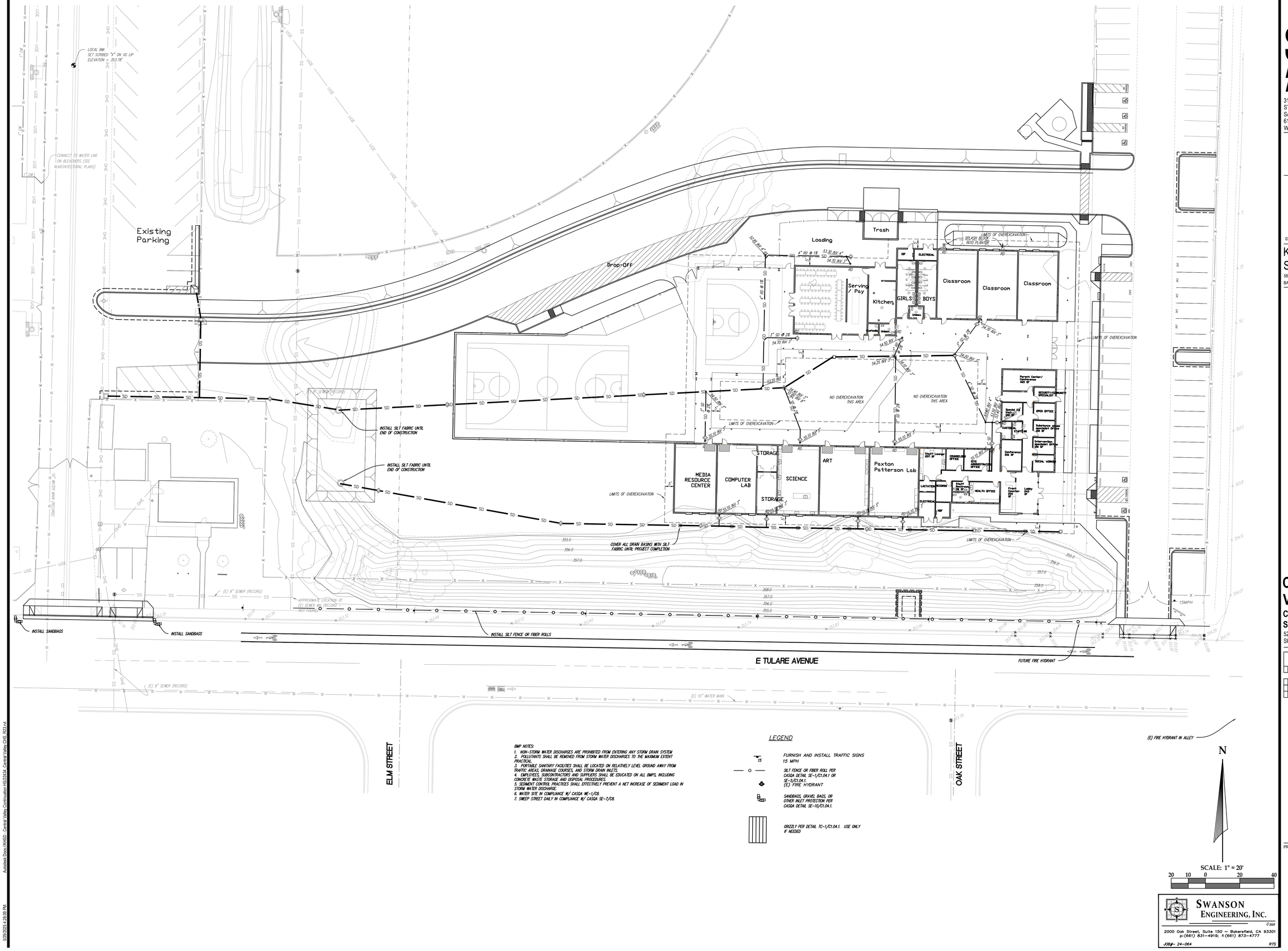
1. DEPTH OF TRENCHES SHALL BE SUFFICIENT TO PROVIDE A MINIMUM COVER ABOVE THE TOP OF DOMESTIC WATER PIPE AS FOLLOWS:
   A. 24-INCH IN NON-DRIVEWAY AREAS.
   B. 30-INCH IN DRIVEWAY AREAS.
2. PIPE SHALL BE INSTALLED PER DETAIL 1, SHEET C6.
3. PROVIDE SEPARATION BETWEEN SANITARY SEWER AND WATER LINES PER CBC REQUIREMENTS/
4. WHEN TWO DOMESTIC WATER PIPES ARE TO BE INSTALLED IN THE SAME TRENCH, MAINTAIN 4-INCH HORIZONTAL CLEARANCE BETWEEN PIPES FOR PIPES SIZED LESS THAN 4". FOR PIPES SIZED 4" AND LARGER, MAINTAIN THE WIDTH OF THE PIPE DIAMETER BETWEEN PIPES.

GENERAL

1. CONTRACTOR WILL FURNISH ALL MATERIALS, TOOLS, LABOR, EQUIPMENT, AND SUPERVISION NECESSARY TO COMPLETE INSTALLATION.

PVC PIPE

1. MATERIALS – PIPE AND FITTINGS SHALL MEET THE REQUIREMENTS OF THE CURRENT ASTM SPECIFICATION D-3034 FOR SDR35 PVC. PIPE AND FITTINGS SHALL BE HOMOGENEOUS THROUGHOUT AND FREE FROM CRACKS, HOLES, FOREIGN INCLUSIONS, OR OTHER INJURIOUS DEFECTS.
2. JOINTS – USE ONLY ELASTOMERIC GASKET JOINTS. THE ASSEMBLY OF JOINTS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION



BMP NOTES:
1. NON-STORM WATER DISCHARGES ARE PROHIBITED FROM ENTERING ANY STORM DRAIN SYSTEM
2. POLLUTANTS SHALL BE REMOVED FROM STORM WATER DISCHARGES TO THE MAXIMUM EXTENT PRACTICAL.
3. PORTABLE SANITARY FACILITIES SHALL BE LOCATED ON RELATIVELY LEVEL GROUND AWAY FROM TRAFFIC AREAS, DRAINAGE COURSES, AND STORM DRAIN INLETS.
4. EMPLOYEES, SUBCONTRACTORS AND SUPPLIERS SHALL BE EDUCATED ON ALL BMPS, INCLUDING CONCRETE WASTE STORAGE AND DISPOSAL PROCEDURES.
5. SEDIMENT CONTROL PRACTICES SHALL EFFECTIVELY PREVENT A NET INCREASE OF SEDIMENT LOAD IN STORM WATER DISCHARGE.
6. WATER SITE IN COMPLIANCE W/ CASQA WE-1/C8.
7. SWEEP STREET DAILY IN COMPLIANCE W/ CASQA SE-7/C8.

LEGEND

- 15 — FURNISH AND INSTALL TRAFFIC SIGNS 15 MPH
- SILT FENCE OR FIBER ROLL PER CASQA DETAIL SE-1/C1.04.1 OR SE-5/C1.04.1.
- (E) FIRE HYDRANT
- SANDBAGS, GRAVEL BAGS, OR OTHER INLET PROTECTION PER CASQA DETAIL SE-10/C1.04.1.
- GRIZZLY PER DETAIL TC-1/C1.04.1. USE ONLY IF NEEDED

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DRAWING SUBMITTAL SCHEDULE	
100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

REGISTERED PROFESSIONAL ENGINEER
ROBERT T. SWANSON
No. 43532
EXP. 3-31-28
CIVIL
STATE OF CALIFORNIA

PROJECT NO: 22434-E-01

EROSION CONTROL PLAN

C-7

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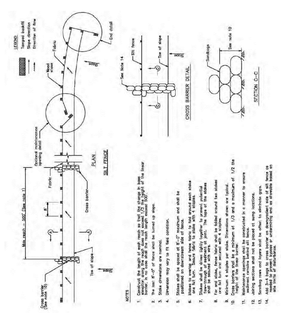
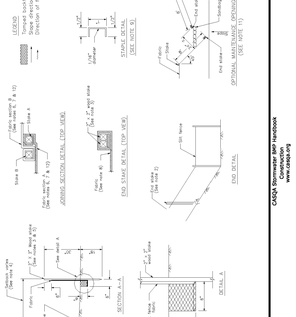
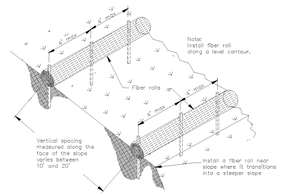
Silt Fence SE-1



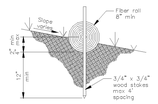
Silt Fence SE-1



Fiber Rolls SE-5

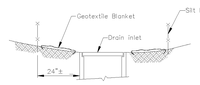


TYPICAL FIBER ROLL INSTALLATION
N.T.S.

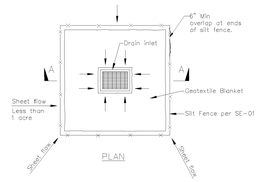


ENTRENCHMENT DETAIL
N.T.S.

Storm Drain Inlet Protection SE-10



SECTION A–A

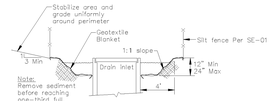


PLAN

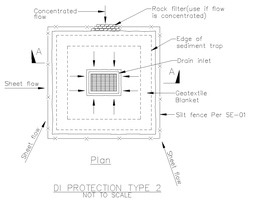
DI PROTECTION TYPE 1
NOT TO SCALE

NOTES:
1. For use in areas where grading has been completed and final soil stabilization and seeding are pending.
2. Not applicable in paved areas.
3. Not applicable with concentrated flows.

Storm Drain Inlet Protection SE-10



Section A–A

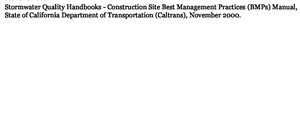


Plan

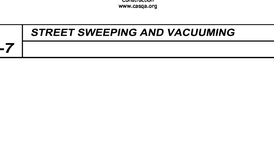
DI PROTECTION TYPE 2
NOT TO SCALE

Notes
1. For use in cleared and grubbed and in graded areas.
2. Shape basin so that longest inflow area faces longest length of trap.
3. For concentrated flows, shape basin in 2:1 ratio with length oriented towards direction of flow.

Storm Drain Inlet Protection SE-10



TYPICAL PROTECTION FOR INLET ON SUMP

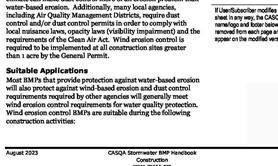


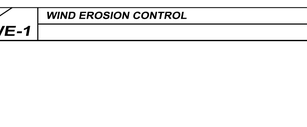
TYPICAL PROTECTION FOR INLET ON GRADE

NOTES:
1. Intended for short-term use.
2. Used to inhibit non-storm water flow.
3. Allow for proper maintenance and cleanup.
4. Bags must be removed after adjacent operation is completed
5. Not applicable in areas with high silts and clays without filter fabric.
6. Protection can be effective even if it is not immediately adjacent to the inlet provided that the inlet is protected from potential sources of pollution.

DI PROTECTION TYPE 3
NOT TO SCALE

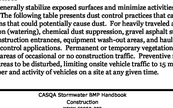
Storm Drain Inlet Protection SE-10





DI PROTECTION – TYPE 4
NOT TO SCALE

Stabilized Construction Entrance/Exit TC-1



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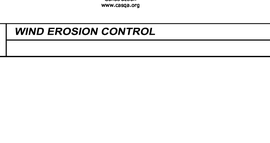
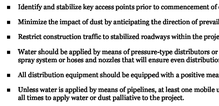
NTS



PLAN
NTS

Stabilized Construction Entrance/Exit TC-1



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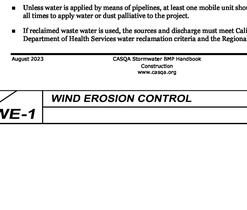

SECTION A–A
NOT TO SCALE

PLAN
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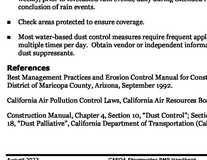
Street Sweeping and Vacuuming SE-7



Categories

EC	Erosion Control	
SE	Sediment Control	☑
TC	Tracking Control	☑
WE	Wind Erosion Control	
NS	Non-Stormwater Management Control	
WM	Waste Management and Materials Pollution Control	

Legend:
☑ Primary Objective
☒ Secondary Objective

Targeted Constituents

Sediment	☑
Nutrients	
Trash	☑
Metals	
Bacteria	
Oil and Grease	☑
Organics	

Potential Alternatives

None

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Description and Purpose

Street sweeping and vacuuming includes use of self-propelled and walk-behind equipment to remove sediment from streets and roadways and to clean paved surfaces in preparation for final paving. Sweeping and vacuuming prevents sediment from the project site from entering storm drains or receiving waters.

Suitable Applications

Sweeping and vacuuming are suitable anywhere sediment is tracked from the project site onto public or private paved streets and roads, typically at points of egress. Sweeping and vacuuming are also applicable during preparation of paved surfaces for final paving.

Limitations

- Sweeping and vacuuming may not be effective when sediment is wet or when tracked soil is caked (caked soil may need to be scraped loose).
- Sweeping may be less effective for fine particle soils (i.e., clay).

Implementation

- Controlling the number of points where vehicles can leave the site will allow sweeping and vacuuming efforts to be focused and perhaps save money.
- Inspect potential sediment tracking locations daily.

Street Sweeping and Vacuuming SE-7

- Visible sediment tracking should be swept or vacuumed on a daily basis.
- Do not use kick brooms or sweeper attachments. These tend to spread the dirt rather than remove it.
- If not mixed with debris or trash, consider incorporating the removed sediment back into the project

Costs

Rental rates for self-propelled sweepers vary depending on hopper size and duration of rental. Expect rental rates from $ 650/day to $2,500/day*, plus operator costs. Hourly production rates vary with the amount of area to be swept and amount of sediment. Match the hopper size to the area and expect sediment load to minimize time spent dumping.

Inspection and Maintenance

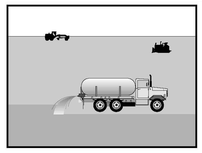
- Inspect BMPs in accordance with General Permit requirements for the associated project type and risk level. It is recommended that at a minimum, BMPs be inspected weekly, prior to forecasted rain events, daily during extended rain events, and after the conclusion of rain events.
- When actively in use, points of ingress and egress must be inspected daily.
- When tracked or spilled sediment is observed outside the construction limits, it must be removed at least daily. More frequent removal, even continuous removal, may be required in some jurisdictions.
- Be careful not to sweep up any unknown substance or any object that may be potentially hazardous.
- Adjust brooms frequently; maximize efficiency of sweeping operations.
- After sweeping is finished, properly dispose of sweeper wastes at an approved dumpsite.

References

Stormwater Quality Handbooks - Construction Site Best Management Practices (BMPs) Manual, State of California Department of Transportation (Caltrans), November 2000.

* Based on contractor query conducted by Tetra Tech, Inc. November 2016.

Wind Erosion Control WE-1



Categories

EC	Erosion Control	
SE	Sediment Control	☒
TC	Tracking Control	
WE	Wind Erosion Control	☑
NS	Non-Stormwater Management Control	
WM	Waste Management and Materials Pollution Control	

Legend:
☑ Primary Category
☒ Secondary Category

Targeted Constituents

Sediment	☑
Nutrients	
Trash	
Metals	
Bacteria	
Oil and Grease	
Organics	

Potential Alternatives

EC-9 Soil Binders

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Description and Purpose

Wind erosion or dust control consists of applying water or other chemical dust suppressants as necessary to prevent or alleviate dust nuisance generated by construction activities. Covering small stockpiles or areas is an alternative to applying water or other dust palliatives.

California's Mediterranean climate, with a short "wet" season and a typically long, hot "dry" season, allows the soils to thoroughly dry out. During the dry season, construction activities are at their peak, and disturbed and exposed areas are increasingly subject to wind erosion, sediment tracking, and dust generated by construction equipment. Site conditions and climate can make dust control more of an erosion problem than water-based erosion. Additionally, many local agencies, including Air Quality Management Districts, require dust control and/or dust control permits in order to comply with local nuisance laws, opacity laws (visibility impairment) and the requirements of the Clean Air Act. Wind erosion control is required to be implemented at all construction sites greater than 1 acre by the General Permit.

Suitable Applications

Most BMPs that provide protection against water-based erosion will also protect against wind-based erosion and dust control requirements required by other agencies will generally meet wind erosion control requirements for water quality protection. Wind erosion control BMPs are suitable during the following construction activities:

Wind Erosion Control WE-1

- Construction vehicle traffic on unpaved roads
- Drilling and blasting activities
- Soils and debris storage piles
- Batch drop from front-end loaders
- Areas with unstabilized soil
- Final grading/site stabilization

Limitations

- Watering prevents dust only for a short period (generally less than a few hours) and should be applied daily (or more often) to be effective.
- Over watering may cause erosion and track-out.
- Oil or oil-treated subgrade should not be used for dust control because the oil may migrate into drainageways and/or seep into the soil.
- Chemical dust suppression agents may have potential environmental impacts. Selected chemical dust control agents should be environmentally benign.
- Effectiveness of controls depends on soil, temperature, humidity, wind velocity and traffic.
- Chemical dust suppression agents should not be used within 100 feet of wetlands or water bodies.
- Chemically treated subgrades may make the soil water repellant, interfering with long-term infiltration and the vegetation/re-vegetation of the site. Some chemical dust suppressants may be subject to freezing and may contain solvents and should be handled properly.
- In compacted areas, watering and other liquid dust control measures may wash sediment or other constituents into the drainage system.
- If the soil surface has minimal natural moisture, the affected area may need to be pre-wetted so that chemical dust control agents can uniformly penetrate the soil surface.

Implementation

Dust Control Practices

Dust control BMPs generally stabilize exposed surfaces and minimize activities that suspend or track dust particles. The following table presents dust control practices that can be applied to varying site conditions that could potentially cause dust. For heavily traveled and disturbed areas, wet suppression (watering), chemical dust suppression, gravel asphalt surfacing, temporary gravel construction entrances, equipment wash-out areas, and haul truck covers can be employed as dust control applications. Permanent or temporary vegetation and mulching can be employed for areas of occasional or no construction traffic. Preventive measures include minimizing surface areas to be disturbed, limiting onsite vehicle traffic to 15 mph or less, and controlling the number and activity of vehicles on a site at any given time.

Wind Erosion Control WE-1

Chemical dust suppressants include: mulch and fiber based dust palliatives (e.g, paper mulch with gypsum binder), salts and brines (e.g. calcium chloride, magnesium chloride), non-petroleum based organics (e.g. vegetable oil, lignosulfonate), petroleum based organics (e.g. asphalt emulsion, dust oils, petroleum resins), synthetic polymers (e.g. polyvinyl acetate, vinyl, acrylic), clay additives (e.g. bentonite, montmorillonite) and electrochemical products (e.g. enzymes, ionic products).

Site Condition	Dust Control Practices								
	Permanent Vegetation	Mulching	Wet Suppression (Watering)	Chemical Dust Suppression	Gravel Asphalt	Temporary Gravel Construction Entrances/Equipment Wash Areas	Haultruck Covers	Minimize Extent of Disturbed Area
Disturbed Areas Subject to Occasional or No Traffic	X	X	X	X	X			X
Disturbed Areas Subject to Traffic			X	X	X	X		X
Stockpiles		X	X	X			X	X
Demolition			X			X	X	
Clearing/ Excavation			X	X				X
Haul Roads/ Temporary Roads			X	X	X	X	X	
Trackout					X	X		

Additional preventive measures include:

- Schedule construction activities to minimize exposed area (see EC-1, Scheduling).
- Quickly treat exposed soils using water, mulching, chemical dust suppressants, or stone/gravel layering.
- Identify and stabilize key access points prior to commencement of construction.
- Minimize the impact of dust by anticipating the direction of prevailing winds.
- Restrict construction traffic to stabilized roadways within the project site, as practicable.
- Water should be applied by means of pressure-type distributors or pipelines equipped with a spray system or hoses and nozzles that will ensure even distribution.
- All distribution equipment should be equipped with a positive means of shutoff.
- Unless water is applied by means of pipelines, at least one mobile unit should be available at all times to apply water or dust palliative to the project.
- If reclaimed waste water is used, the sources and discharge must meet California Department of Health Services water reclamation criteria and the Regional Water Quality

Wind Erosion Control WE-1

Control Board (RWQCB) requirements. Non-potable water should not be conveyed in tanks or drain pipes that will be used to convey potable water and there should be no connection between potable and non-potable supplies. Non-potable tanks, pipes, and other conveyances should be marked, "NON-POTABLE WATER - DO NOT DRINK."

- Pave or chemically stabilize access points where unpaved traffic surfaces adjoin paved roads.
- Provide covers for haul trucks transporting materials that contribute to dust.
- Provide for rapid clean up of sediments deposited on paved roads. Furnish stabilized construction road entrances and wheel wash areas.
- Stabilize inactive areas of construction sites using temporary vegetation or chemical stabiliuation methods.

For chemical stabilization, there are many products available for chemically stabilizing gravel roadways and stockpiles. If chemical stabilization is used, the chemicals should not create any adverse effects on stormwater, plant life, or groundwater and should meet all applicable regulatory requirements.

Costs

Installation costs for water and chemical dust suppression vary based on the method used and the length of effectiveness. Annual costs may be high since some of these measures are effective for only a few hours to a few days.

Inspection and Maintenance

- Inspect and verify that activity-based BMPs are in place prior to the commencement of associated activities.
- BMPs must be inspected in accordance with General Permit requirements for the associated project type and risk level. It is recommended that at a minimum, BMPs be inspected weekly, prior to forecasted rain events, daily during extended rain events, and after the conclusion of rain events.
- Check areas protected to ensure coverage.
- Most water-based dust control measures require frequent application, often daily or even multiple times per day. Obtain vendor or independent information on longevity of chemical dust suppressants.

References

Best Management Practices and Erosion Control Manual for Construction Sites, Flood Control District of Maricopa County, Arizona, September 1992.

California Air Pollution Control Laws, California Air Resources Board, updated annually.

Construction Manual, Chapter 4, Section 10, "Dust Control"; Section 17, "Watering"; and Section 18, "Dust Palliative", California Department of Transportation (Caltrans), July 2001.

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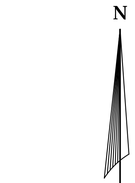
DWG V2	02/27/2026
DWG V3	04/28/2026



PROJECT NO: 22434-E-01

SWANSON ENGINEERING, INC.
2000 Oak Street, Suite 150 ~ Bakersfield, CA 93301
p:(661) 631-4919; f:(661) 873-4777

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BMP DETAILS

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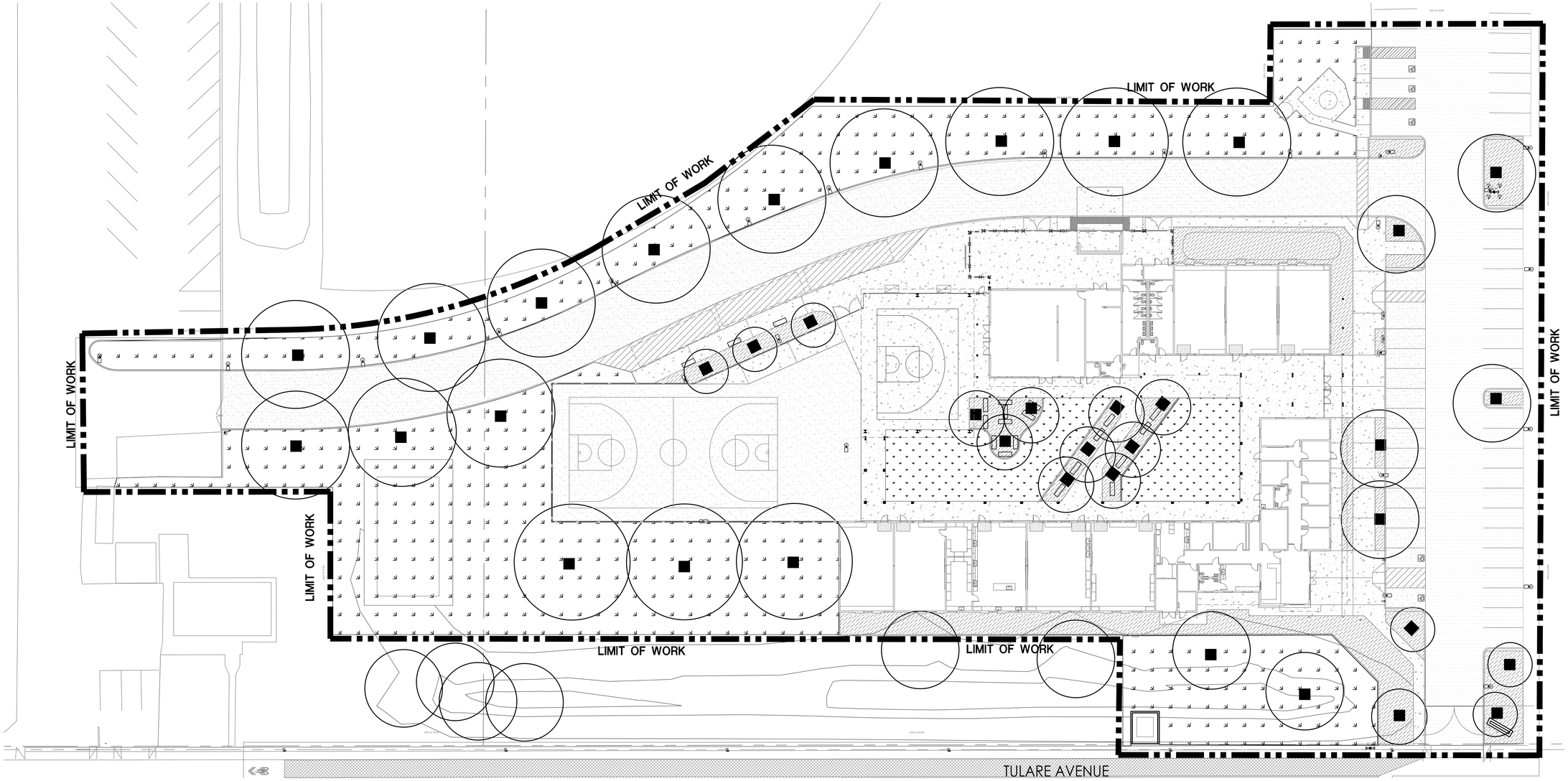

HYDROZONE PLAN

SCALE: 1" = 20' -0"

WATER EFFICIENT LANDSCAPE WORKSHEET

This worksheet is filled out by the project applicant and it is a required element of the Landscape Documentation Package.

Reference Evapotranspiration (ETo) 52.1

Hydrozone # /Planting Description[a]	Plant Factor (PF)	Irrigation Method[b]	Irrigation Efficiency (IE)[c]	ETAF (PF/IE)	Landscape Area (sq.ft.)	ETAF x Area	Estimated Total Water Use (ETWU)[d]
Regular Landscape Areas							
Zone A TREES	0.30	drip	0.81	0.37	950	352	11,366
Zone B SHRUBS	0.30	drip	0.81	0.37	9,068	3,359	108,487
				Totals	10,018	3,710	119,852
Special Landscape Areas							
Zone C Hydroseed and Sod				1.00	41,432	41,432	1,338,336
				Totals	41,432	41,432	1,338,336
						ETWU Total	1,458,189
						Maximum Allowed Water Allowance (MAWA)[e]	1,483,957

[a] Hydrozone #/Planting Description
E.g.
1.) high water use
2.) low water use
3.) moderate water use

[b] Irrigation Method
overhead spray or drip

[c] Irrigation Efficiency
0.75 for spray head
0.81 for drip

[d] ETWU **(Annual Gallons Required)**
Eto x 0.62 x ETAF x Area

[e] MAWA (Annual Gallons Allowed)
(Eto) (.062) [(ETAF x LA) + ((1-ETAF) x SLA)]

ETAF CALCULATION

Regular Landscape Areas

Total ETAF X Area	3,710
Total Area	10,018
Average ETAF	**0.37**

All Landscape Areas

Total ETAF X Area	45,142
Total Area	51,450
Sitewide ETAF	**0.88**

Average ETAF for Regular Landscape Areas must be 0.55 or below for residential areas, and 0.45 or below for non-residential areas.

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HYDROZONE SUMMARY

HYDROZONE #	SYMBOL	DESCRIPTION
A		HYDROZONE A -950 SF TREES IRRIGATED WITH DEEP ROOT BUBBLERS
B		HYDROZONE B-9068 SF SHRUBS AND GROUNDCOVER IRRIGATED WITH DRIP IRRIGATION TOTAL LANDSCAPE AREA - 10,018 SF
C		HYDROZONE C- 41,432 SF TURF SOD/ HYDROSEED IRRIGATED WITH OVERHEAD SPRAY TOTAL SPECIAL LANDSCAPE AREA - 41,432 SF

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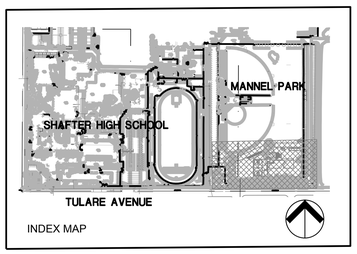

INDEX MAP

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Consultant's Project No. 24-865

REGISTERED LANDSCAPE ARCHITECT
MEGAN E. RIOS No. 3980
Signature
SEPTEMBER 30,2026
Expiration Date
Date
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50% CONSTRUCTION DOCUMENTS	10/10/2025
100% CONSTRUCTION DOCUMENTS	11/21/2025

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Consultant's Project No. 24-865

PROJECT NO: 22434-E-01 FEBRUARY 24, 2026

HYDROZONE PLAN

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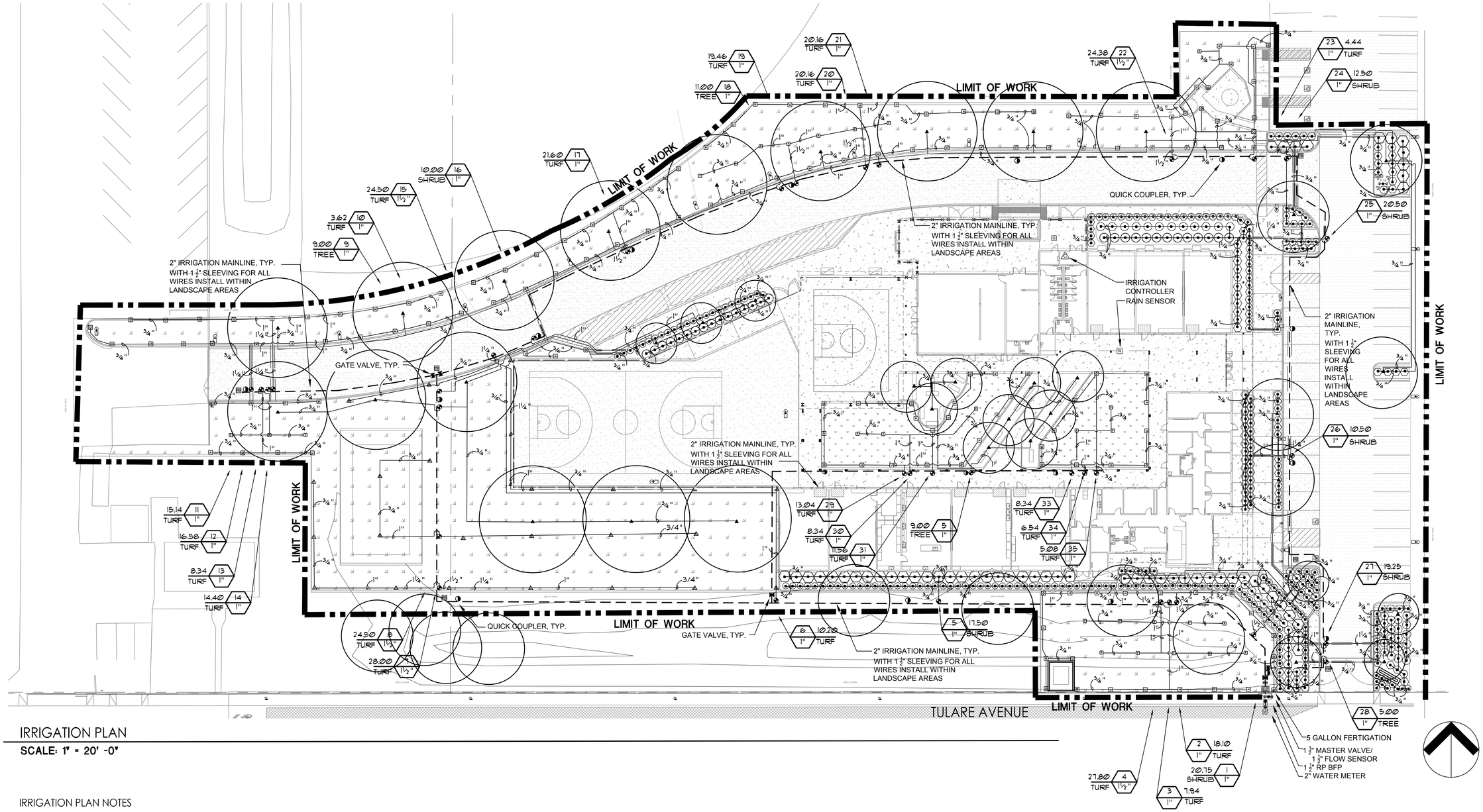

IRRIGATION PLAN

SCALE: 1" = 20' -0"

IRRIGATION PLAN NOTES

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO FURNISH AND INSTALL THE IRRIGATION SYSTEM AS SHOWN ON THE DRAWINGS, AS DESCRIBED IN THE SPECIFICATIONS, AND IN ACCORDANCE WITH APPLICABLE CODES AND ORDINANCES.

DESIGN REFLECTS COMPLIANCE WITH STATE OF CALIFORNIA MWELO (MODEL WATER EFFICIENT LANDSCAPE ORDINANCE AND/OR THE LOCAL GOVERNING AGENCY'S ADOPTED WATER EFFICIENT LANDSCAPE ORDINANCE..

DRAWINGS ARE DIAGRAMMATIC. CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTMENTS NECESSARY TO CONFORM TO ACTUAL FIELD CONDITIONS.

CONTRACTOR SHALL FLUSH ALL LINES AND ADJUST ALL HEADS FOR OPTIMUM PERFORMANCE IN ACCORDANCE WITH THE SPECIFICATIONS AND TO PREVENT OVERSPRAY ONTO HARDSCAPE AREAS OR STRUCTURAL ELEMENTS. THIS SHALL INCLUDE SELECTING THE BEST DEGREE OF ARC TO FIT ACTUAL SITE CONDITIONS AND TO THROTTLE THE FLOW CONTROL AT EACH VALVE TO OBTAIN THE OPTIMUM OPERATING PRESSURE FOR EACH SYSTEM. COSTS INCURRED DUE TO ANY ADJUSTMENTS FOR 100% COVERAGE, INCLUDING THOSE REQUESTED BY THE DISTRICT'S AUTHORIZED REPRESENTATIVE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

SYSTEM DESIGN IS BASED ON A MINIMUM OPERATING PRESSURE (P.S.I.) AND A MAXIMUM DEMAND (G.P.M.) AS SHOWN AT EACH POINT OF CONNECTION ON THE DRAWINGS. CONTRACTOR SHALL VERIFY PRESSURE AND DEMAND AT EACH POINT OF CONNECTION PRIOR TO COMMENCING INSTALLATION AND SUBMIT SUCH IN WRITING TO THE DISTRICT'S AUTHORIZED REPRESENTATIVE. IF ANY DISCREPANCIES EXIST, THEY SHOULD BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE DISTRICT'S AUTHORIZED REPRESENTATIVE.

EQUIPMENT SHOWN IN HARDSCAPE AREAS ARE FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED WHENEVER POSSIBLE WITHIN PLANTED AREAS A REASONABLE, REACHABLE DISTANCE FROM HARDSCAPE OR TURF AREAS.

UNLESS OTHERWISE NOTED ON THE DRAWINGS, CONTRACTOR SHALL INSTALL WIRE AND PIPE UNDER HARDSCAPE AREAS IN P.V.C. SCHEDULE 40 SLEEVES PLACED PRIOR TO INSTALLING HARDSCAPE IN ACCORDANCE WITH APPLICABLE CODES.

WHEREVER POSSIBLE, CONTROL WIRES SHALL OCCUPY THE SAME TRENCH AS PIPES.

EACH CONTROLLER SHALL HAVE ITS OWN INDEPENDENT GROUND WIRE.

SPLICING OF 24 VOLT WIRES WILL NOT BE PERMITTED EXCEPT IN VALVE BOXES. CONTRACTOR TO LEAVE A 24" COIL OF EXCESS WIRE AT EACH SPLICE AND EVERY 100' ON CENTER ALONG WIRE RUN. TAPE WIRE BUNDLES 10' ON CENTER. NO TAPING WILL BE PERMITTED INSIDE SLEEVES.

WIRE CONNECTORS SHALL BE SCOTCH DBY OR APPROVED EQUAL.

CONTROL VALVES SHALL BE SIZED AS DESIGNATED ON THE DRAWINGS AND SHALL BE INSTALLED IN VALVE BOXES AS INDICATED IN THE DETAILS. BOXES SHALL BE SET FLUSH WITH THE FINISH GRADE OR SURFACE AND PERMANENTLY MARKED WITH THE LETTERS R.C.V.

FINAL LOCATION FOR BACKFLOW PREVENTION DEVICES SHALL BE APPROVED BY THE DISTRICT'S AUTHORIZED REPRESENTATIVE PRIOR TO INSTALLING. CONTRACTOR SHALL NOTIFY ALL LOCAL JURISDICTIONS FOR INSPECTION AND TESTING OF INSTALLED BACKFLOW PREVENTION DEVICE.

CONTRACTOR SHALL INSTALL ANTI-DRAIN CHECK VALVES AS NECESSARY TO PREVENT LOW HEAD DRAINAGE.

ALL IRRIGATION HEADS ADJACENT TO HARDSCAPE SHALL BE POP-UP STYLE.

IRRIGATION HEADS SHALL BE SET PERPENDICULAR TO FINISH GRADE OF THE AREA TO BE IRRIGATED UNLESS OTHEWISE DESIGNATED ON THE PLANS.

Irrigation Pressure Calculation

Project Name: Static Pressure: 75.00

Feb-24-26 Max. GPM Demand: 28.00

Units	Size	Type	Description	GPM	Unit PSI Loss
1	2"	Turbo	Water Meter	28.00	00.10
1	1-1/2"	Reduc.	Pressure BFP	28.00	08.70
1	1-1/2"	Globe	Master Valve	28.00	02.90
1	1.5	pvc	flow sensor	28.00	00.25
1	2"	Brass	Gate Valve	28.00	00.10
633	2"	Sch. 40	Main Line	28.00	03.77
47	1-1/4"	Sch. 40	Lateral Line	23.00	01.39
13	1"	Sch. 40	Lateral Line	13.00	00.51
50	3/4"	Sch. 40	Lateral Line	08.00	02.57
Misc			Fittings Allowance		01.65

Component Losses: 21.94

Station #: 7 Min. Req'r by Head: 50.00

Highest GPM System 3.0' Elevation Loss: 01.30

Total Pressure Req'r: 73.24

Residual Pressure: 01.76

Set Pressure Regulating Valve at: 66.54 PSI

POINT-OF-CONNECTION #A

WATER METER- 2"
STATIC WATER PRESSURE- 54 PSI
BACKFLOW PREVENTER- 1 1/2" RP BFP
CONTROLLER- x STATIONS
MAXIMUM FLOW DEMAND- 50 GPM

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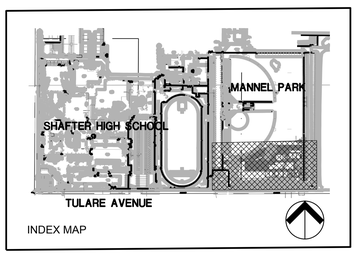
VALVE IDENTIFICATION KEY

VALVE STATION NUMBER — VALVE G.P.M.
VALVE SIZE — SYSTEM DESCRIPTION
1 | 1" | 10 DRIP



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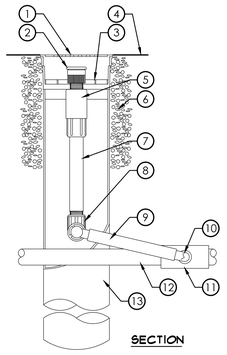
Consultant's Project No. 24-865

PROJECT NO: 22434-E-01 FEBRUARY 24, 2026

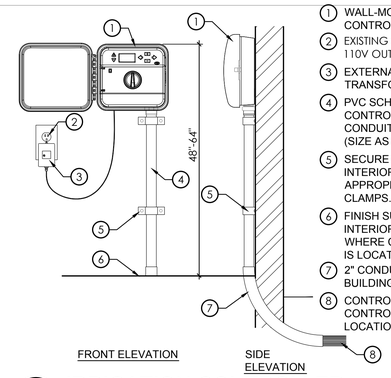
IRRIGATION PLAN

L-200



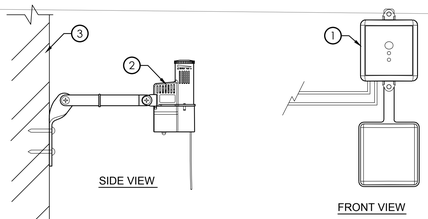
1. 4-INCH GRATE (INCLUDED)
2. BUBBLER: RAIN BIRD 1400 SERIES BUBBLER PER LEGEND
3. ROOT WATERING SYSTEM: RAIN BIRD RWS-BCG (INCLUDES BUBBLER WITH RISER, CHECK VALVE, GRATE, SWING ASSEMBLY, 1/2" MALE NPT INLET, AND BASKET CANISTER)
4. FINISH GRADE
5. CHECK VALVE (INCLUDED)
6. PEA GRAVEL OR RWS SAND SOCK (RWS-SOCK) FOR SANDY SOILS
7. ½" PVC SCH 80 NIPPLE (INCLUDED)
8. ½" 90-DEGREE ELBOW (INCLUDED)
9. 12" SWING ASSEMBLY (INCLUDED)
10. ½" MALE NPT INLET (INCLUDED)
11. PVC SCH 40 TEE OR ELL
12. PVC LATERAL PIPE
13. 4" BASKET WEAVE CANISTER (INCLUDED)

A TREE BUBBLER /SHRUB BUBBLER
SCALE: NTS



1. WALL-MOUNT CONTROLLER
2. EXISTING GROUNDED 110V OUTLET
3. EXTERNAL PLUG IN TRANSFORMER
4. PVC SCHEDULE 40 CONTROL WIRE CONDUIT (SIZE AS REQUIRED)
5. SECURE CONDUIT TO INTERIOR WALL WITH APPROPRIATE PIPE CLAMPS.
6. FINISH SURFACE OF INTERIOR SPACE WHERE CONTROLLER IS LOCATED
7. 2" CONDUIT THROUGH BUILDING WALL
8. CONTROL WIRE TO CONTROL VALVE LOCATIONS

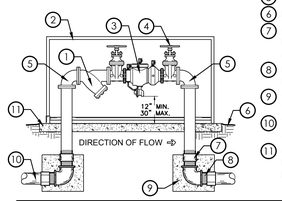
B IRRIGATION CONTROLLER
SCALE: NTS



1. WIRELESS RAIN/FREEZE SENSOR RECEIVER INSTALLED WITHIN CONTROLLER ENCLOSURE.
2. WIRELESS RAIN/FREEZE SENSOR MOUNT IN LOCATION WHERE SENSOR CAN RECEIVE FULL SUN, IS OPEN TO RAINFALL AND OUT OF SPRINKLER SPRAY PATTERN, NO MORE THAN 1000' FROM RECEIVER UNIT. MOUNT RECEIVER UNIT NO FURTHER THAN 6' FROM CONTROLLER.
3. MOUNTING WALL OR EAVE

C WIRELESS RAIN/FREEZE SENSOR
SCALE: NTS

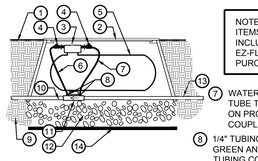
1. EPOXY COATED WYE TYPE STRAINER- IF REQUIRED BY LOCAL CODE
2. INSULATED BACKFLOW ENCLOSURE AS INDICATED IN LEGEND
3. REDUCED PRESSURE BACKFLOW PREVENTER AS INDICATED IN LEGEND
4. NRS GATE VALVE, TYPICAL
5. FLANGED FITTINGS
6. FINISH GRADE
7. GALVANIZED COUPLING SET FLUSH WITH CONCRETE (TYPICAL)
8. PVC MALE ADAPTER TO IRRIGATION SYSTEM
9. 12"x12"x12" CONCRETE THRUST BLOCKS
10. TO POINT OF CONNECTION ADAPT AS REQUIRED
11. CONCRETE PAD- SIZE AS DETERMINED BY SIZE OF BACKFLOW UNIT AND CAGE



NOTES:
EVENLY COAT G.I. FITTINGS EXPOSED TO SOIL AND CONCRETE WITH 3M SCOTCHRAP PIPE PRIMER AND THEN WRAP WITH 3M SCOTCHRAP NO. 51 BLACK PVC TAPE (3/4" OVERLAP)

ENCLOSURE OCCURS AT EACH BACKFLOW UNIT

E RP BACKFLOW PREVENTER
SCALE: NTS

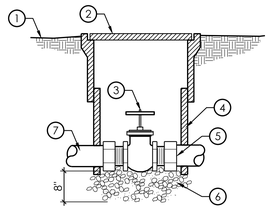


NOTE:
ITEMS 3, 4, 5, 6, 7 AND 8 ARE INCLUDED WITH THE EZ-FLO SYSTEM. ITEM 11 IS PURCHASED SEPARATELY.

1. FINISH GRADE
2. PLASTIC 30" L x 18" D x 17" W VALVE BOX & LOCKABLE COVER
3. PROPORTIONING CAP WITH FEED ADJUSTMENT KNOB
4. EZ-FLO SHUT OFF VALVES
5. EZ-FLO MODEL EZ010-FX FERTILIZING SYSTEM 27" L x 12" D x 14" H
6. FERTILIZER OUT - CONNECT CLEAR TUBE TO GREEN CONNECTIONS ON PROPORTIONING CAP AND COUPLING
7. WATER IN - CONNECT BLACK TUBE TO BLUE CONNECTIONS ON PROPORTIONING CAP AND COUPLING
8. 1/4" TUBING CLAMP - BOTH THE GREEN AND BLUE COUPLING TUBING CONNECTIONS
9. APPROVED BACKFILL
10. PVC MAIN LINE TO VALVE MANIFOLD
11. EZ BALL VALVE COUPLING CONNECTOR - INSTALL ACCORDING TO WATER FLOW DIRECTION ARROW
12. 6" MIN. LAYER PEA GRAVEL (2 CU. FT.)
13. PVC MAIN LINE FROM BACK FLOW PREVENTER
14. LANDSCAPE FABRIC

F EZ-FLO FERTILIZING SYSTEM
SCALE: NTS

1. FINISH GRADE
2. ROUND VALVE BOX
3. GATE VALVE- MANUFACTURER AND MODEL AS INDICATED IN LEGEND, OR APPROVED EQUAL
4. EXTENSION LENGTH- AS REQUIRED
5. PVC MALE ADAPTER
6. 3/4"' WASHED CRUSHED AGGREGATE BASE OR PEA GRAVEL
7. IRRIGATION MAINLINE



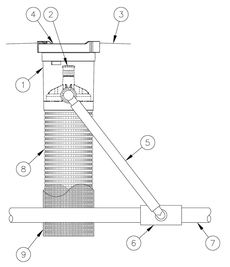
G GATE VALVE
SCALE: NTS

IRRIGATION LEGEND

SYMBOL	MANUF	MODEL NUMBER	PSI	RADIUS	GPM	DET REF
F					F TQ TT H T Q	
⚠	RAINBIRD	(#6504-FC-SS-HS-#4) 4" POP-UP HIGH SPEED ROTOR WITH FULL CIRCLE #4 NOZZLE	50	41'	3.5	J/L202
⚠	RAINBIRD	(#6504-PC-SS-HS-#4) 4" POP-UP HIGH SPEED ROTOR WITH PART CIRCLE #4 NOZZLE	50	41'	1.75	J/L202
⚠	RAINBIRD	(#6504-PC-SS-HS-#4) 4" POP-UP HIGH SPEED ROTOR WITH PART CIRCLE #4 NOZZLE	50	41'	.88	J/L202
F	RAINBIRD	5004-+-FC-SAM-SS4" POP-UP ROTOR W/ FULL CIRCLE MPR-25 NOZZLE	25	18'	2.78	K/L202
H	RAINBIRD	5004-+-PC-SAM-SS4" POP-UP ROTOR W/ HALF CIRCLE MPR-25 NOZZLE	25	18'	1.44	K/L202
Q	RAINBIRD	5004-+-PC-SAM-SS4" POP-UP ROTOR W/ HALF CIRCLE MPR-25 NOZZLE	25	18'	0.74	K/L202
▲	RAINBIRD	(MODEL# RWS-18-50) PLACE DEEP ROOT WATERING SYSTEM TWO PER TREE.	15	DRIP	.50 GPM TREE	A/L201
•	RAINBIRD	PROS-04-CV-PCB PRESSURE COMPENSATING BUBBLER ONE FOR EACH SHRUB	15	DRIP	.25 GPM SHRUB	D/L201

IRRIGATION LEGEND

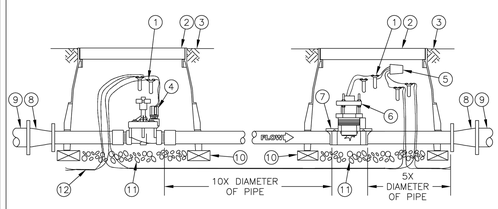
SYMBOL	MANUF	MODEL NUMBER	DET REF
M		2" WATER METER SEE CIVIL ENGINEERING PLANS	
C	RAINBIRD	(MODEL #ESP-2WIRE) 55 STATION DECODER CONTROLLER. INSTALL WITHIN PLASTIC CONTROLLER ENCLOSURE; WALL MOUNT WITHIN ROOM IN BUILDING.	B/201
R	RAINBIRD	(MODEL #WR2-RFC) WIRELESS RAIN +FREEZE SENSORS AND WIRELESS RECEIVER WITH WEATHERPROFFING.	C/L201
	FEBCO	(MODEL#) 1 1/2" BACKFLOW PREVENTOR ASSEMBLY. INSTALL V.I.T. POLAR BEARIER SLIP ON COVER TO FIT BACKFLOW ASSEMBLY. INSTALL IN ALUMINUM BACKFLOW ASSEMBLY ENCLOSURE (MODEL# STRONG BOX SBBC-45AL) AS PER MANUFACTURER'S RECOMMENDATIONS.	E/L201
EZ	EZ-FLO	(MODEL#EZ005-FX) 5 GALLON CAPACITY FERTILIZING SYSTEM	F/L201
	RAINBIRD	(MODEL#ACLP07JAC) 3 HP VFD PUMP WITH BLADDER TANK & SS ENCLOSUREneeds SINGLE PHASE 208V OR 230V AC & SURGE SUPPRESSION KIT	X/L201
MV	RAINBIRD	(MODEL#150PESBIVM +150PESBIVM SOL) 1 1/2" NORMALLY OPEN BRASS MASTER VALVE CONNECT MASTER VALVE TO TWO WIRE CABLE WITH (#MODEL ICD-SEN) SENSOR DECODER WITH SURGE SUPPRESSION	H/L201
FS	RAINBIRD	(MODEL#FS150P) 1 ½" PVC FLOW SENSOR (FLOW RANGE 5-100 GPM), INSTALL PER MANUFACTURER RECOMMENDATION CONNECT FLOW SENSORS TO TWO WIRE CABLE WITH PE-39 USING 3M DBR/Y-6 CONNECTORS CALIBRATION FACTORS K-FACTOR- 1.697 OFFSET- -0.316	H/L201
	MATCO	(MODEL#513T) GATE VALVE LINE SIZE FOR MAINLINES 2 1/2" AND SMALLER	G/L201
	RAINBIRD	(MODEL#100PEBIVM + 100PESBIVM & 150PEBIVM + 150PESBIVM) 1" OR 1 1/2" PLASTIC VALVES WITH SMART IVM SOLENOID INTERNAL FOR TWOWIRE SYSTEM - SIZE AS PER PLAN.	A/L202
	AS APPROVED	PVC PIPE SCH 40 MAINLINES TO BE USED FOR PIPES 2 1/2" AND SMALLER, SIZE PER PLAN INSTALL IN LANDSCAPE AREA WHEREVER POSSIBLE. INSTALL THRUST BLOCKS AT MAINLINE CHANGE OF DIRECTION.	C&D/L202
	AS APPROVED	SCH 40 PVC LATERAL LINE - 12" MIN. COVER; SIZE PER PLAN - 3/4" MINIMUM SIZE	C&D/L202
	AS APPROVED	PVC PIPE SCH. 40 SLEEVING. INSTALL ANYWHERE MAINLINE AND LATERAL LINES OCCUR BELOW OR THROUGH PAVING AND HARDSCAPE. FOR ALL PIPES 2" SIZE AND SMALLER, INSTALL WITHIN SLEEVE TWICE THE DIAMETER OF THE PIPE CARRIED WITHIN USE 4" PVC SLEEVING UNDER ALL HARDSCAPE.	C&D/L202
NO SYMBOL	3M	DBR/Y-6 WIRE CONNECTORS- INSTALL PER MANUFACTURER'S RECOMMENDATIONS	E/L202
G	PAIGE	8-FT COPPER CLAD 5/8" Φ GROUNDING ROD WITH CADWELD CONNECTION INSTALL GROUNDING ROD A MINIMUM OF 12' DISTANCE FROM CONTROLLER CABINET LOCATION INSTALL GROUNDING ROD A MINIMUM OF 8' DISTANCE FROM 2-WIRE CABLE PATH AND SPHERE OF INFLUENCE	F/L202
	RAINBIRD	(MODEL#44NP) QUICK COUPLER WITH LOCKING RUBBER COVER, INSTALL WITHIN LOCKING VALVE BOX.	B/L202
PB	APPLIED ENGINEERING	(MODEL#1015 1G2G VALVE BOX) ELECTRICAL PULLBOX FOR 2-WIRE CABLE. STANDARD RECTANGULAR VALVE BOX WITH LOCKING LID. 200' TO BE MAXIMUM DISTANCE BETWEEN VALVE BOXES	G/L202
NO SYMBOL	THRUST BLOCKS		L/L202
NO SYMBOL	APPLIED ENGINEERING	VALVE BOX WITH DROP IN STYLE LOCKING LIDS STANDARD RECTANGULAR SERIES 1015 1G2G VALVE BOX FOR RCVS & FLOW SENSOR JUMBO RECTANGULAR SERIES 1320 1G2G VALVE BOX FOR MASTER VALVE GATE VALVES LABEL VALVE BOX LIDS WITH ALL-SPEC STENCIL PLATES SECURED TO VALVE BOX LIDS	H&I/L202



1. RAIN BIRD RWS-M-B-C-1401 (INCLUDES RETAINER, 18"(45,7 CM) TUBE, 0.25 GPM (0,95 L/M) BUBBLER & INTEGRATED CHECK VALVE, 4"(10,2 CM) GRATE, 1/2"(1,3 CM) M NPT INLET SPIRAL BARB ELBOW)
2. BUBBLER: RAIN BIRD 1401 0.25 GPM (0,95 L/M) (INCLUDED)
3. FINISH GRADE/TOP OF MULCH
4. 4" (10,2 CM) LOCKING GRATE (INCLUDED)
5. 1/2" (1,3 CM) SWING ASSEMBLY: RAIN BIRD SA-125050 OR 1/2" (1,3 CM) SWING PIPE: RAIN BIRD SP SERIES WITH 1/2" (1,3 CM) MALE NPT x 0.490" BARB ELBOW: RAIN BIRD SBE-050
6. PVC SCH 40 TEE OR EL
7. PVC OR POLYETHYLENE LATERAL PIPE
8. 4" (10,2 CM) WIDE X 18" (45,7 CM) LONG RIGID BASKET WEAVE CANISTER (INCLUDED)
9. OPTIONAL SOCK (RWS-SOCK) FOR SANDY SOILS

NOTES:
1. 4" (10,2 CM) GRATE IS ALSO AVAILABLE IN PURPLE (RWS-GRATE-P).
2. INSTALL PRODUCT SO THAT THE GRATE IS EVEN WITH FINISH GRADE OR TOP OF MULCH.
3. OPTIONAL SAND SOCK (RWS-SOCK) IS 34" (86,4 CM) IN LENGTH. CUT TO LENGTH NEEDED TO COVER MESH BASKET AREA.
4. WHEN INSTALLING IN EXTREMELY HARD OR CLAY SOILS, ADD 3/4" (1,9 CM) GRAVEL UNDER AND AROUND THE UNIT TO ALLOW FASTER WATER INFILTRATION AND ROOT PENETRATION.
5. ONCE RWS-M HAS BEEN INSTALLED FILL THE BASKET WITH PEA GRAVEL BEFORE LOCKING LID.

D ROOT WATERING SYSTEM
N.T.S. 07-19-2013
RWS-M-B-C-1401



1. WATERPROOF SPLICE CONNECTION: RAIN BIRD WC20
2. VALVE BOX WITH COVER: RAIN BIRD VB-STD
3. FINISH GRADE/TOP OF MULCH
4. NORMALLY CLOSED MASTER VALVE: RAIN BIRD PEB OR PGA WITH IVM
5. RAIN BIRD IVM-SEN
6. FLOW SENSOR: RAIN BIRD FS SERIES
7. DOUBLE-STRAP SADDLE
8. CONCENTRIC REDUCER
9. PVC MAINLINE PIPE
10. BRICK (1 OF 4)
11. 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL
12. TWO-WIRE CABLE BETWEEN DEVICES

NOTE:
1. REFER TO RAIN BIRD TECHNICAL DATA FOR FLOW SENSOR INSTALLATION BASED ON PIPE SIZING PARAMETERS.

NOTE:
1. COIL AN ADDITIONAL 3-FEET OF TWO-WIRE CABLE IN VALVE BOX FOR EASY SERVICING.

H MASTER VALVE WITH IVM-SOL AND FLOW SENSOR WITH IVM-SEN
N.T.S.

Controller : A					IRRIGATION CONTROLLER RUN TIMES		
PLANT TYPE / SPRINKLER TYPE	Eto	AKc	PR RATE	IE	RUN TIME (HOURS)	QUANTITY	RUN TIME (HOURS)
Days Per Week: 3	8.7						
Shrub and Ground Covers:							
Tree Bubblers	8.70	0.40	0.85	0.70	0.10	4	0.40
Shrub bubblers	8.70	0.30	0.45	0.90	0.19	7	1.33
Turf Grass:							
Spray Heads	8.70	0.90	1.82	0.70	0.48	20	9.56
Rotor Heads	8.70	0.90	0.50	0.80	1.52	4	6.09
					TOTAL RUN TIME IN HOURS FOR DRIP & BUBBLERS ONLY:		1.73
					TOTAL RUN TIME IN HOURS ALL SPRAY ZONES:		15.65
					TOTAL RUN TIME IN HOURS:		17.38

811 Know what's below. Call before you dig.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125726 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 04/28/2026

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Consultant's Project No. 24-865

REGISTERED LANDSCAPE ARCHITECT MEGAN E. RIOS No. 3260 Signature SEPTEMBER 30,2026 Expiration Date 11/21/25 Date STATE OF CALIFORNIA

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KERN HIGH SCHOOL DISTRICT
5801 SUNDALE AVE.
BAKERSFIELD, CA 93309

CENTRAL VALLEY CONTINUATION HIGH SCHOOL CAMPUS
526 MANNEL AVENUE
SHAFTER, CA 93263

DRAWING SUBMITTAL SCHEDULE

100% DD SET	07/08/2025
50% CONSTRUCTION DOCUMENTS	10/10/2025
100% CONSTRUCTION DOCUMENTS	11/21/2025

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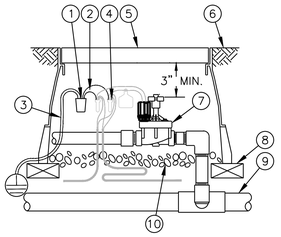
PROJECT NO: 22434-E-01 FEBRUARY 24, 2026

IRRIGATION LEGEND & DETAILS

L-201



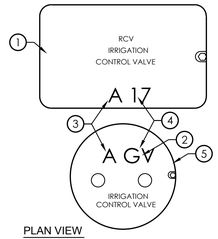
NOTES:
1. COIL AN ADDITIONAL 3-FEET OF TWO-WIRE CABLE IN VALVE BOX FOR EASY SERVICING.
2. ONE IVM-SD IS REQUIRED EVERY 500 FEET OR EVERY 15 FIELD DEVICES.

1. RAIN BIRD IVM-SD SURGE DEVICE
2. CONNECT THE RED AND BLACK WIRES ON THE IVM-SD TO THE TWO-WIRE PATH
3. CONNECT THE GREEN WIRES FROM THE IVM-SD TO THE GROUNDING ROD OR PLATE
4. WATERPROOF CONNECTION RAIN BIRD WC20 (TWO REQUIRED)
5. VALVE BOX WITH COVER: RAIN BIRD VB-STD
6. FINISH GRADE/TOP OF MULCH
7. ELECTRIC REMOTE-CONTROL VALVE
8. BRICK (1 OF 4)
9. PVC MAINLINE PIPE
10. 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL
11. TWO-WIRE CABLE BETWEEN DEVICES

A ELECTRIC REMOTE-CONTROL VALVE WITH IVM-SOL AND IVM-SD (SURGE DEVICE)

N.T.S.

24-865 LIP ~ 2020-11-16

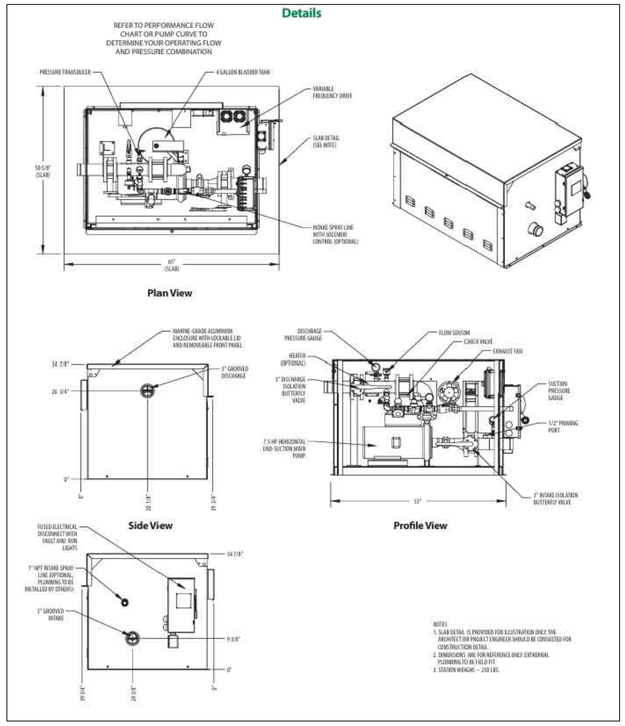


PLAN VIEW

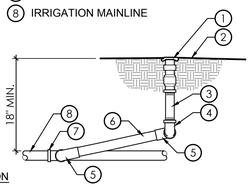
1. VALVE BOX WITH LOCKABLE COVER
2. 2" BRANDING, PER THE IRRIGATION SPECIFICATIONS.
3. CONTROLLER DESIGNATION
4. VALVE IDENTIFICATION
5. ROUND VALVE BOX WITH LOCKABLE COVER.

H VALVE BOX HEAT BRANDING

SCALE: NTS



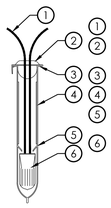
M 3 HP SINGLE PHASE PUMP



1. QUICK COUPLING VALVE, PER IRRIGATION LEGEND
2. FINISH GRADE
3. 4" LONG BRASS NIPPLE
4. BRASS 90 DEGREE ELL
5. BRASS 90 DEGREE STREET ELL
6. 12" LONG BRASS NIPPLE
7. PRESSURE SUPPLY LINE FITTING
8. IRRIGATION MAINLINE

B QUICK COUPLER

SCALE: NTS



1. LOW VOLTAGE WIRES, 3 MAXIMUM
2. WIRES PASS THROUGH GROOVES IN TUBE LID TO ALLOW LID TO CLOSE
3. CLOSE TUBE LID AFTER WIRE IS INSERTED INTO TUBE
4. POLY TUBE PRE-FILLED WITH WATERPROOF GEL
5. LOCK TABS PREVENT WIRE REMOVAL ONCE CONNECTOR IS INSERTED
6. SCOTCHLOK ELECTRICAL SPRING CONNECTOR. WIRES SHALL BE PRE-STRIPPED OF 1/2" OF THE INSULATION PRIOR TO INSERTION INTO THE CONNECTIOR. TWIST CONNECTOR ONTO WIRES TO SEAT FIRMLY.

SCOTCHLOK CONNECTOR AND WIRES INSERTED INTO TUBE UNTIL THE CONNECTOR PASSES LOCK TABS

NOTE:
WIRE CONNECTOR SHALL BE A 3M DBY-6 DIRECT BURY SPLICE KIT.

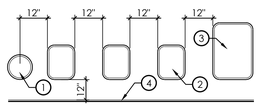
KIT SHALL INCLUDE A SCOTCHLOK Y SPRING CONNECTOR, A POLYPROPYLENE TUBE AND A WATERPROOF SEALING GEL. TUBE SHALL BE SUPPLIED PREFILLED WITH GEL.

DIRECT BURY SPLICE KIT SHALL BE USED TO ELECTRICALLY CONNECT (2 - 3) #14 OR (2) #12 PRE-STRIPPED COPPER WIRES. LARGER WIRES OR GREATER QUANTITIES OF WIRES SHALL REQUIRE A LARGER APPROVED WIRE CONNECTION.

E WATERPROOF WIRE CONNECTION

SCALE: NTS

NOTES:
1. CENTER VALVE BOX OVER REMOTE CONTROL VALVE TO FACILITATE SERVICING THE VALVE.
2. SET BOXES 1" ABOVE FINISH GRADE OR MULCH COVER IN GROUNDCOVER/ SHRUB AREA AND FLUSH WITH FINISH GRADE IN TURF AREA.
3. SET RVC AND VALVE BOX ASSEMBLY IN GROUNDCOVER/SHRUB AREA WHERE POSSIBLE. INSTALL IN LAWN ONLY IF GROUNDCOVER DOES NOT EXIST ADJACENT TO LAWN.
4. SET BOXES PARALLEL TO EACH OTHER AND PERPENDICULAR TO EDGE.
5. AVOID HEAVILY COMPACTING SOIL AROUND VALVE BOXES TO PREVENT COLLAPSE AND DEFORMATION OF VALVE BOX SIDES.
6. IDENTIFY VALVE BOX WITH CONTROLLER LETTER AND VALVE NUMBER USING 1 ½" - 2" LETTERING.

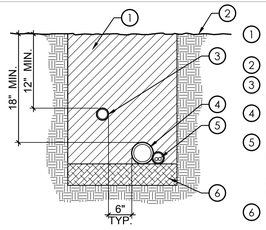


PLAN VIEW

1. 10" ROUND VALVE BOX
2. 14"x19" RECTANGULAR VALVE BOX
3. 23"x 33" RECTANGULAR VALVE BOX
4. EDGE OF LAWN, WALK, FENCE, CURB, ETC.

I VALVE BOX INSTALLATION

SCALE: NTS

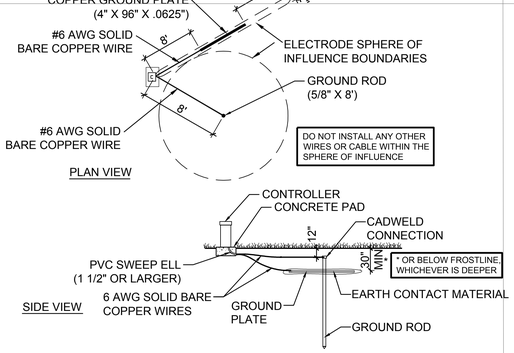


1. CLEAN BACKFILL- 90% COMPACTION REQUIRED
2. FINISH GRADE
3. NON-PRESSURE LATERAL LINE SNAKE PIPE IN TRENCH
4. PRESSURE SUPPLY LINE SNAKE PIPE IN TRENCH
5. TWO WIRE CABLE INSTALLED IN ¾" SCH 40 PVC CONDUIT, THROUGHOUT PROJECT. INSTALL ADJACENT TO PRESSURE SUPPLY LINE
6. PROVIDE 2" MIN. OF CLEAN SAND

NOTES:
1. PIGTAIL AND LOOP CONTROL WIRE AT ALL 90 DEGREE CHANGES IN DIRECTION.
2. PROVIDE A MINIMUM 10 FEET SEPERATION BETWEEN POTABLE AND RECLAIMED MAINLINE PIPING.
3. 24" MINIMUM COVER ON 3" MAINLINE AND LARGER.

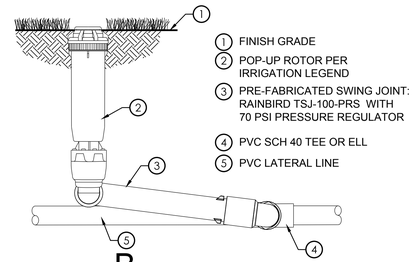
C TYPICAL TRENCHING

SCALE: NTS



F GROUNDING ROD/PLATE

SCALE: NTS

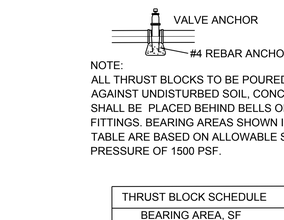


1. FINISH GRADE
2. POP-UP ROTOR PER IRRIGATION LEGEND
3. PRE-FABRICATED SWING JOINT: RAINBIRD TSJ-100-PRS WITH 70 PSI PRESSURE REGULATOR
4. PVC SCH 40 TEE OR ELL
5. PVC LATERAL LINE

B

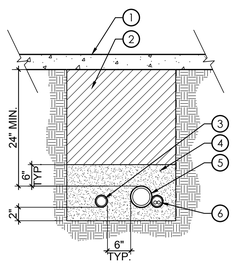
J FALCON TURF ROTOR ASSEMBLY

SCALE: NTS



NOTE:
ALL THRUST BLOCKS TO BE POURED AGAINST UNDISTURBED SOIL, CONCRETE SHALL BE PLACED BEHIND BELLS OF FITTINGS. BEARING AREAS SHOWN IN TABLE ARE BASED ON ALLOWABLE SOIL PRESSURE OF 1500 PSF.

THRUST BLOCK SCHEDULE				
BEARING AREA, SF				
PIPE SIZE	TEE OR PLUG	90° ELL	45° ELL	22.5° ELL
2"	2	2	2	1
3"	2	2	2	1
4"	2	2	2	1
6"	3	4	2	2
8"	5	7	4	2



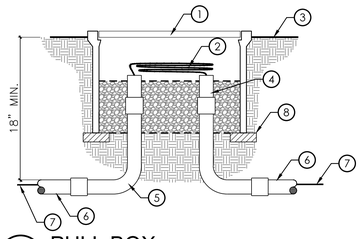
1. HARDSCAPE/PAVING PER ARCHITECT AND CIVIL PLANS
2. CLEAN BACKFILL- 90% COMPACTION REQUIRED
3. LATERAL LINE SLEEVE- SIZED TO TWICE DIA. OF NON-PRESSURE LATERAL LINE
4. SAND
5. SUPPLY LINE SLEEVE- SIZED TO TWICE DIA. OF PRESSURE SUPPLY LINE
6. TWO WIRE CABLE- INSTALL WITHIN 1" SCH 40 PVC, THROUGHOUT. INSTALL ADJACENT TO PRESSURE SUPPLY LINE

NOTES:
1. ALL SLEEVES TO BE SCH 40 PVC.
2. EXTEND ALL SLEEVES 12" BEYOND EDGE OF HARDSCAPING AT BOTH ENDS.

D TYPICAL SLEEVING

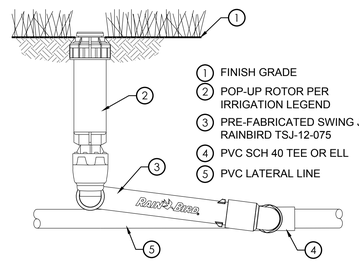
SCALE: NTS

1. STANDARD RETANGULAR VALVE BOX EVERY 200' MAXIMUM
2. 36" LOOP OF 2-WIRE CABLE IN PULLBOX
3. FINISH GRADE
4. ENDS OF CONDUIT SEALED WITH WATERPROOF SILICONE (IF REQUIRED)
5. 90 DEGREE SWEEP ELL (IF REQUIRED)
6. 2" CONDUIT
7. 2 -WIRE CABLE PER LEGEND
8. BRICK (1 OF 4)



G PULL BOX

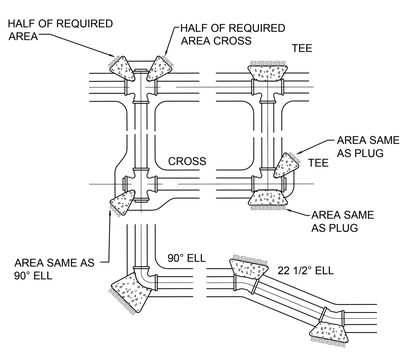
SCALE: NTS



1. FINISH GRADE
2. POP-UP ROTOR PER IRRIGATION LEGEND
3. PRE-FABRICATED SWING JOINT: RAINBIRD TSJ-12-075
4. PVC SCH 40 TEE OR ELL
5. PVC LATERAL LINE

K TURF ROTOR- 5004 ASSEMBLY

SCALE: NTS



L THRUST BLOCKS FOR IRRIGATION LINES

SCALE: NTS

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Consultant's Project No. 24-865

REGISTERED LANDSCAPE ARCHITECT
MEGAN E. RIOS No. 3260
Signature
SEPTEMBER 30,2026
Expiration Date
Date
STATE OF CALIFORNIA

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CENTRAL VALLEY
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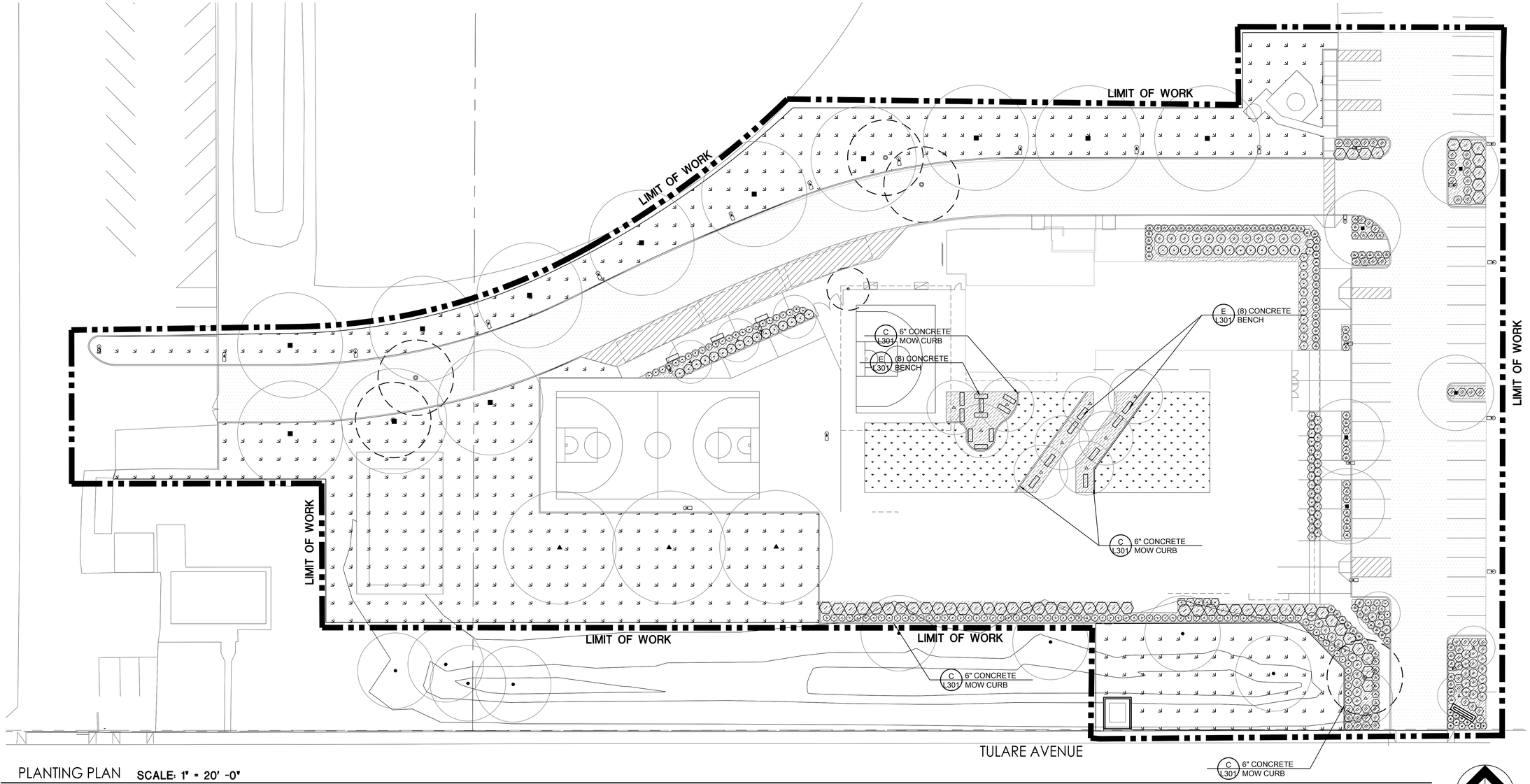
Consultant's Project No. 24-865

PROJECT NO: 22434-E-01 FEBRUARY 24, 2026

IRRIGATION DETAILS

L-202



PLANTING PLAN **SCALE: 1" = 20' -0"**

PLANTING LEGEND- TREE - NURSE ISO

TREES SYMBOL		BOTANICAL NAME	COMMON NAME	SIZE	QTY.	WULCOS	E/D
	EX TRER	EXISTING TREE TO BE REMOVED			6		E/D
	EX TRES	EXISTING TREE TO REMAIN			8		E/D
	ACE SAC	ACER SACCHARINUM	SUGAR MAPLE	24" BOX STD FORM	17	M	D
	GLE TRI	GLEDITSIA TRIACANTHOS 'SHADEMASTER'	HONEYLOCUST	24" BOX STD FORM	10	L	D
	LAG NAT	LAGERSTOEMIA INDICA 'NATCHEZ'	WHITE CRAPE MYRTLE	24" BOX STD FORM	6	L	D
	UMB CAL	UMBELLULATA CALIFORNIA	CALIFORNIA BAY	24" BOX STD FORM	3	L	D
				TOTAL # OF TREES	44		

ANY TREE WITHIN 6' OF CONCRETE SHALL HAVE A 10' LONG ROOT BARRIER CENTERED ON TREE TRUNK.
THE MINIMUM SIZE FOR A TREE SHALL NOT BE SMALLER THAN 24" BOX.
TREES SHALL BE INSTALLED A MINIMUM OF 5' FROM DRIVE APPROACHES, SEWER LINES, AND WATER LINES.
TREES SHALL BE INSTALLED A MINIMUM OF10' FROM FIRE HYDRANTS AND LIGHT POLES.

SHRUB PLANTING LEGEND - PARKING

SYMBOL	TREES	BOTANICAL NAME	COMMON NAME	SIZE	QTY.	WULCOS
	ALO GLA	ALOE GLAUCA	BLUE ALOE	1 GALLON	107	L
	DIA TAS	DIANELLA TASMANICA 'VARIEGATA'	TASMANIAN FLAX LILY	1 GALLON	45	L
	DIE BIC	DIETES BICOLOR	FORTNIGHT LILY	1 GALLON	47	L
	LAN NG	LANTANA 'NEW GOLD'	NEW GOLD LANTANA	1 GALLON	53	L
	NAN HD	NANDINA DOMESTICA 'HARBOR DWARF'	HEAVENLY BAMBOO	5 GALLON	29	L
	RHA UMB	RHAPHIOLEPIS UMBELLATA 'MINOR'	YODDA HAWTHORNE	5 GALLON	55	L
	SAN CHA	SANTOLINA CHAMAECYPARISSUS	LAVENDER COTTON	1 GALLON	97	L
	TRA JAS	TRACHELOSPERMUM JASMINOIDES	STAR JASMINE	1 GALLON	88	M

	SHADE TOLERANT BERMUDA SOD SHADE TOLERANT BERMUDA SOD WITHIN THE QUAD	4928 SF
	SPORTSFIELD ELITE BERMUDA HYDROSEED	36,504 SF
	3" THK ROCK DUST WITH POLYMER BLEND	9593 SF
	PARKING LOT AREA	31,390 SF
	NEW CONCRETE WALK	20,202 SF
	6' LONG BENCH	21 EACH

PARKING LOT SHADE CALCULATIONS

MINIMUM SHADE% ACCEPTED = 50%

TREE SPECIES	CANOPY DIAMETER	FULL (100%)	THREE-QUARTER (75%)	HALF (50%)	QUARTER (25%)	TOTAL (50% MIN)	
ACE SAC	2463 SF	(9) 2463 SF	(9) 1847 SF	(15)18473 SF	(0)	(17) 22,783 SF	
GLE TRI	490 SF	(0)	(0)	(0)	(0)	(0)	
LAG IND	153 SF	(0)	(3) 230	(0)	(1) 39	(3) 269 SF	
UMB CAL	2463 SF	(0)	(0)	(0)	(0)	(0)	
XXX XXX	XXX SF					(20) 23,052 SF	
PARKING LOT	31,390 SF					31,390 SF	- 73%

CONCRETE SHADE CALCULATIONS

MINIMUM SHADE% ACCEPTED = 20%

TREE SPECIES	CANOPY DIAMETER	FULL (100%)	THREE-QUARTER (75%)	HALF (50%)	QUARTER (25%)	TOTAL (20% MIN)	
ACE SAC	2463 SF	(2) 4926 SF	(0)	(1) 1232 SF	(0)	(3) 6158 SF	
GLE TRI	490 SF	(0)	(0)	(0)	(10) 3431 SF	(10) 3431 SF	
LAG IND	153 SF	(0)	(0)	(1) 230	(3) 115 SF	(4) 345 SF	
UMB CAL	2463 SF	(0)	(0)	(0)	(3) 1848 SF	(3) 1848 SF	
XXX XXX	XXX SF					(19) 11,782 SF	
CONCRETE	20,202 SF					20,202 SF	- 58%

LANDSCAPE SHADE CALCULATIONS

MINIMUM SHADE% ACCEPTED = 20%

TREE SPECIES	CANOPY DIAMETER	FULL (100%)	THREE-QUARTER (75%)	HALF (50%)	QUARTER (25%)	TOTAL (50% MIN)	
ACE SAC	2463 SF	(0)	(2) 3695 SF	(12) 14,778SF	(3) 1847 SF	(17) 19,089 SF	
GLE TRI	490 SF	(0)	(10) 3675 SF	(0)	(0)	(10) 3675 SF	
LAG IND	153 SF	(2) 306 SF	(3) 345 SF	(0)	(1) 39 SF	(6) 690 SF	
UMB CAL	2463 SF	(0)	(3) 5542 SF	(0)	(0)	(3) 5542 SF	
XXX XXX	XXX SF					(36) 28,998 SF	
LANDSCAPE	51,025 SF					51,025 SF	- 57%

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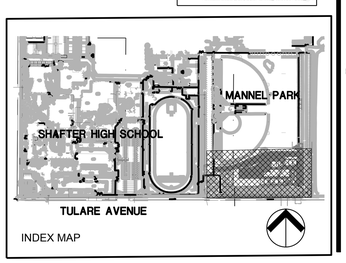

INDEX MAP

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DATE: 04/28/2026

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REGISTERED LANDSCAPE ARCHITECT MEGAN E. RIOS No. 6369 Signature SEPTEMBER 30,2026 Expiration Date 11/21/25 Date STATE OF CALIFORNIA

RIOS DESIGN STUDIO
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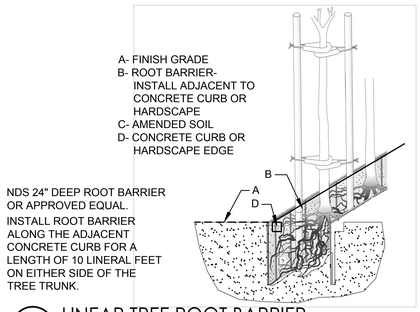
Consultant's Project No. 24-865

PROJECT NO: 22434-E-01 FEBRUARY 24, 2026

PLANTING PLAN

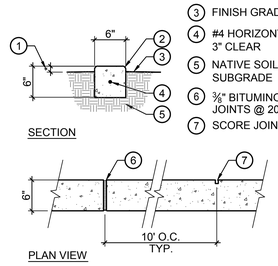
L-300

2. PLACE MATERIAL IN TRENCH, DIRECTLY ADJACENT TO HARDSCAPE. BE SURE BARRIER EXTENDS ABOVE FINISH GRADE BUT REMAINS AT OR BELOW HARDSCAPE SURFACE.



D LINEAR TREE ROOT BARRIER
SCALE: NOT TO SCALE

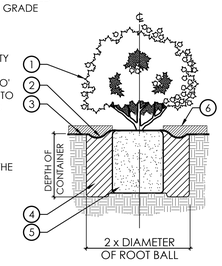
1. 1" IN TURF AREA AND 2" IN SHRUB BED
2. CONCRETE MOW STRIP WITH ½" RADIUS ALONG ALL EXPOSED EDGES
3. FINISH GRADE
4. #4 HORIZONTAL REBAR, CONTINUOUS- 3" CLEAR
5. NATIVE SOIL OR COMPACTED SUBGRADE
6. ⅜" BITUMINOUS FELT EXPANSION JOINTS @ 20' O.C. MAX
7. SCORE JOINTS @ 5' O.C.



C 6"x6" CONCRETE MOW CURB
SCALE: 1"=1'-0"

1. SHRUB AS SPECIFIED ON PLANTING PLAN
2. A SHALLOW BASIN 2" DEEP SHALL BE FORMED AROUND ROOTBALL BELOW FINISH GRADE
3. FINISH GRADE
4. BACKFILL IN ACCORDANCE WITH PROJECT AGRICULTURAL SUITABILITY SOILS REPORT. THOROUGHLY MIX 'AquaSmart PRO' MOISTURE RETENTION PRODUCT INTO BACKFILL MIX. REFER TO PLANTING NOTES FOR AMOUNT TO USE FOR EACH PLANT CONTAINER SIZE.
5. ROOTBALL
6. 3" MULCH LAYER- DO NOT COVER THE PLANT ROOT CROWN.

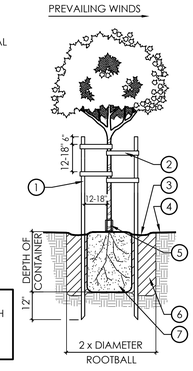
NOTES:
1. CROWN OF ROOTBALL TO BE 1/2"-1" ABOVE FINISH GRADE.
2. FOR ADDITIONAL INFORMATION REFER TO PLANTING NOTES AND SPECIFICATIONS.



B SHRUB PLANTING
SCALE: NOT TO SCALE

1. 2" DIA. MIN. x 10' DOUGLAS FIR LODGE POLE STAKES, BOTH SIDES
2. CINCH TIE, ARBOR TIE, OR APPROVED EQUAL
3. A SHALLOW BASIN 2" DEEP SHALL BE FORMED AROUND BALL BELOW FINISH GRADE. TREES PLANTED IN TURF AREAS SHALL NOT HAVE BASINS.
4. FINISH GRADE
5. TREES INSTALLED WITHIN TURF AREAS SHALL BE INSTALLED WITH 'ARBOR-GARD' OR APPROVED EQUAL AT BASE OF TRUNK.
6. BACKFILL IN ACCORDANCE WITH PROJECT AGRICULTURAL SUITABILITY SOILS REPORT. THOROUGHLY MIX 'AquaSmart PRO' MOISTURE RETENTION PRODUCT INTO BACKFILL MIX. REFER TO PLANTING NOTES FOR AMOUNT TO USE FOR EACH PLANT CONTAINER SIZE.
7. ROOTBALL

NOTES:
1. CROWN OF ROOTBALL TO BE 1" ABOVE FINISH GRADE.
2. FOR ADDITIONAL INFORMATION REFER TO PLANTING NOTES AND SPECIFICATIONS.



A TREE PLANTING (DOUBLE STAKE -15 GAL. & 24" BOX)
SCALE: NOT TO SCALE

PLANTING PLAN NOTES

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO FURNISH AND INSTALL PLANT MATERIAL AS SHOWN ON THE DRAWINGS AND AS DESCRIBED IN THE SPECIFICATIONS.

UNLESS DESIGNATED ON THE DRAWINGS OTHERWISE, STRUCTURAL IMPROVEMENTS AND HARDSCAPE SHALL BE INSTALLED PRIOR TO PLANTING OPERATIONS.

ALL WORK ON THE IRRIGATION SYSTEM, INCLUDING HYDROSTATIC, COVERAGE, AND OPERATIONAL TESTS AND THE BACKFILLING AND COMPACTION OF TRENCHES SHALL BE PERFORMED PRIOR TO PLANTING OPERATIONS.

PLANT LIST ON THE DRAWINGS SHALL BE USED AS A GUIDE ONLY. CONTRACTOR SHALL TAKEOFF AND VERIFY SIZES AND QUANTITIES BY PLAN CHECK.

SAMPLES OF FERTILIZERS, ORGANIC AMENDMENT, SOIL CONDITIONERS, AND SEED SHALL BE SUBMITTED PRIOR TO INCORPORATION. CONTRACTOR SHALL FURNISH TO THE CITY/OWNER'S AUTHORIZED REPRESENTATIVE A CERTIFICATE OF COMPLIANCE FOR SUCH FURNISHED MATERIALS.

LOCATIONS OF PLANT MATERIAL SHALL BE REVIEWED ON SITE BY THE CITY/OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO INSTALLATION.

AMENDMENTS, AS INDICATED IN THE SOILS REPORT SHOWN ON THE DRAWINGS, ARE BASED ON AGRICULTURAL SUITABILITY SOILS TESTS PERFORMED PRIOR TO GRADING AND WERE PRESENTED FOR BIDDING PURPOSES. IF NO SOILS REPORT EXISTS, CONTRACTOR SHALL PROPOSE ON AMENDMENTS AS STATED IN THE SPECIFICATIONS. CLIENT OR CONTRACTOR SHALL OBTAIN AGRICULTURAL SOILS TESTING AND RECOMMENDATIONS AFTER GRADING OPERATIONS AND PRIOR TO PLANT INSTALLATION.

TREES SHALL BE PLANTED NO CLOSER THAN TEN FEET (10') FROM UTILITIES.

TREES PLANTED WITHIN FIVE FEET (5') OF HARDSCAPE OR STRUCTURES SHALL BE INSTALLED WITH A ROOT BARRIER AS APPROVED BY THE CITY/OWNER'S AUTHORIZED REPRESENTATIVE.

IF, DURING PLANTING OPERATIONS THERE SEEMS TO BE MINIMAL OR NO PERCOLATION IN PLANTING PITS, CONTRACTOR SHALL CEASE PLANTING OPERATIONS AND IMMEDIATELY NOTIFY THE CITY/OWNER'S AUTHORIZED REPRESENTATIVE TO DISCUSS ALTERNATIVE TO MAINTAINING POSITIVE ROOTBALL DRAINAGE MEASURES.

CONTRACTOR TO APPLY A 3" LAYER OF MULCH, AS APPLICABLE, IN ALL SHRUB AND GROUNDCOVER AREAS. CONTRACTOR TO SUBMIT SAMPLES FOR APPROVAL PRIOR TO INSTALLATION.

CONTRACTOR SHALL INCORPORATE 4 CU YDS OF COMPOST PER 1000 SF TO A DEPTH OF 6" OF PERMEABLE AREA SO AS TO MAXIMIZE WATER RETENTION AND INFILTRATION. IF THE SOILS ANALYSIS INDICATES THAT THE TOP 6" OF SOIL CONTAINS GREATER THAN 6% ORGANIC MATTER, THE AREA SHALL BE EXEMPTION FROM THESE REQUIREMENTS.

CONTRACTOR SHALL THOUROUGHLY MIX 'AquaSmart PRO' MOISTURE RETENTION PRODUCT TO THE BACKFILL MIX IN THE PLANTING PITS OF ALL TREES, SHRUBS AND VINES.
USE THE FOLLOWING RATES-
36" BOX- 5 CUPS
24" BOX- 2.5 CUPS
15 GALLON- 1 CUP
5 GALLON- 1/3 CUP
1 GALLON- 2 TABLESPOONS

SOILS ANALYSIS AND RECOMMENDATIONS

Rios Design Studio October 6, 2024
Project – Shafter Continuation
Location – E Tulare and Elm

The analysis and soil sample indicate a loam texture. Organic values are low, and nitrogen values are slightly high. The phosphorus and potassium values are very high. The pH value is 6.6, optimal for all growing conditions. Sodium values are high, and boron values are low.
Ca/Mg ratio is approximately 15:1 and should be closer to 7:1. Magnesium is recommended annually. Manganese values are low and Iron values moderate

Complete site recommendations and rates for soil amending:

A. Live Earth® Humate Soil Conditioner - @ 300 lbs. per 1000 SF.

B. Live Earth® Humate Soil Conditioner w/Mn- @ 200 lbs. per 1000 SF.

C. Live Earth® Back Nine (9-0-0) – @ 25 lbs. per 1000 SF.

D. Magnesium Product - @ Manufacturers recommended corrective rate.

Incorporate the above products into the top 2-3 inches of your soil (finished grade).

Trees and Shrubs:
Live Earth® Humate Soil Conditioner - approx. 1 lb. or 2 cups per gallon container. Blend with back fill.
24" box – 25 lbs. 36" box – 35 lbs. 48" box – 50 lbs.

Maintenance 6 weeks after installation. Apply to all turf and ornamental areas, Live Earth® Iron 10 granular (5-0-0) @ 15 lbs. per 1000 SF.

Turf Liquid Program:
Live Earth® Blitz 22 Plus - @ 10 gallons per acre. 24-32oz per 1000 SF. Apply 6 times annually.

Turf Granular Program:
March - Live Earth® Iron 10 (5-0-0)- @ 15 lbs. per 1000 SF.

May – Live Earth® Back Nine - @ 12.5 lbs. per 1000 SF.

August – Live Earth® Blitz 22 granular - @ 6.25 lbs. per 1000 SF.

October - Live Earth® Humate Soil Conditioner w/Mn - @ 50 lbs. per 1000 SF.

Tree and Shrub Liquid Program:
Live Earth® Blitz 22 Plus - @ 10 gallons per acre. (24-32oz per 1000 SF). Apply 2-3 times per year Spring, Summer, and Fall annually.

Tree and Shrub Granular Program:
Live Earth® Back Nine (9-0-0) - @ 6.25 lbs. per 1000 SF. Apply 2-3 times annually.

October - Live Earth® Humate Soil Conditioner w/Mn - @ 50 lbs. per 1000 SF.
Contact Todd Burns 661-978-7307

811 Know what's below. Call before you dig.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125726 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 04/28/2026

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3111 CAMINO DEL RIO NORTH,
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SAN DIEGO, CA 92108
619.297.0131
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KERN HIGH SCHOOL DISTRICT
5801 SUNDALE AVE.
BAKERSFIELD, CA 93309

CENTRAL VALLEY
CONTINUATION HIGH SCHOOL CAMPUS
526 MANNEL AVENUE
SHAFTER, CA 93263

DRAWING SUBMITTAL SCHEDULE

	100% DD SET	07/08/2025
	50% CONSTRUCTION DOCUMENTS	10/10/2025
	100% CONSTRUCTION DOCUMENTS	11/21/2025

REGISTERED LANDSCAPE ARCHITECT
MEGAN E. RIOS No. 3368
Signature
SEPTEMBER 30,2026
Expiration Date
11/21/25
Date
STATE OF CALIFORNIA

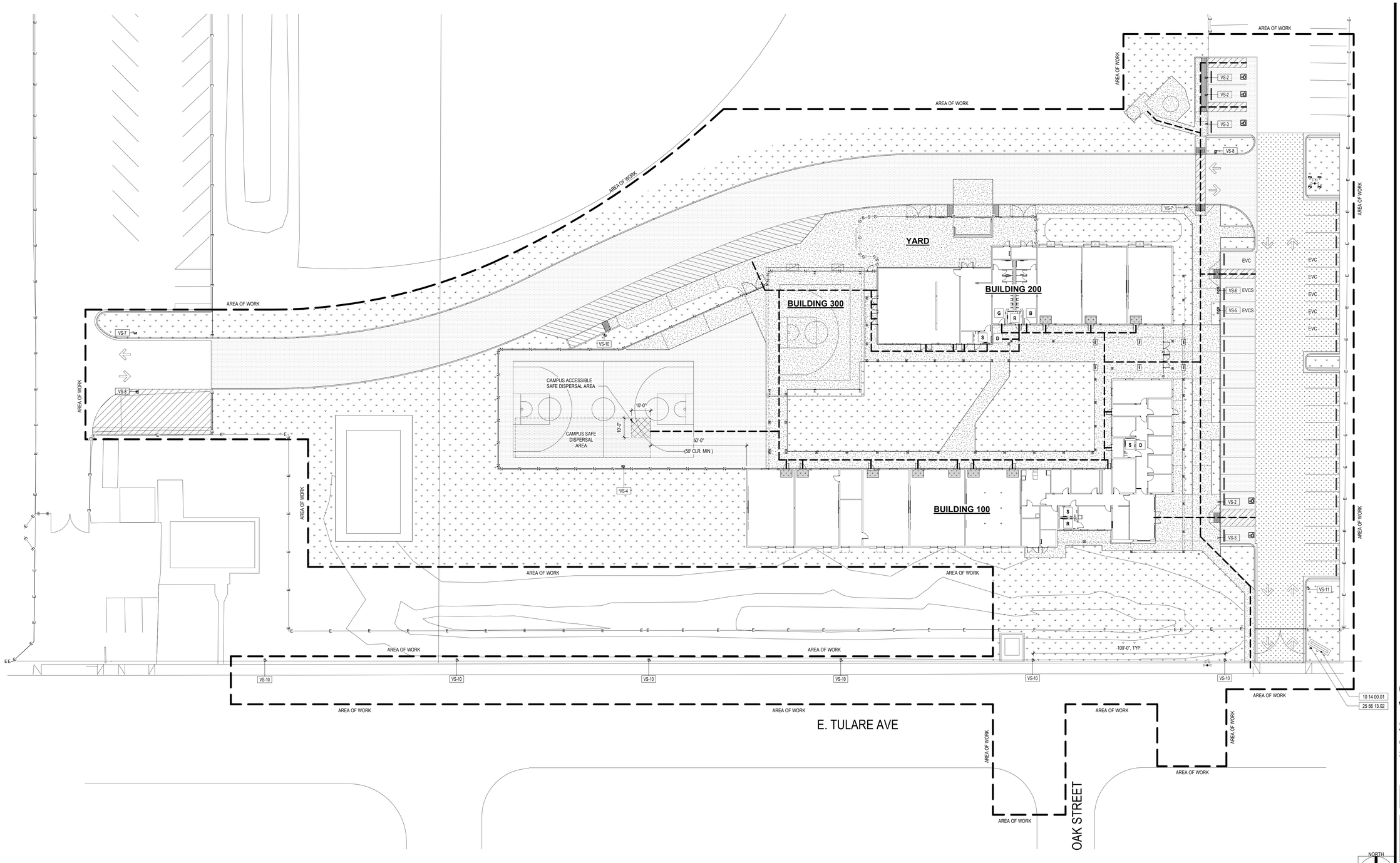
RIOS DESIGN STUDIO
LANDSCAPE ARCHITECTURE & DESIGN
3805 ORA VISTA AVENUE
BAKERSFIELD, CALIFORNIA 93309
P: 661.431.2801
MEGANR@RIOSDESIGN.COM

Consultant's Project No. 24-865

PROJECT NO: 22434-E-01 FEBRUARY 24, 2026

PLANTING DETAILS & NOTES

L-301



ACCESSIBILITY / SIGNAGE SITE PLAN

SCALE: 1" = 20'-0"

1

SIGNAGE SCHEDULE

TYPE	DESCRIPTION	SPEC	DETAIL
VS-1	ACCESSIBLE PARKING SITE ENTRANCE	10 14 00	5 / C-4
VS-2	ACCESSIBLE PARKING SPACE	10 14 00	9 / C-4
VS-3	VAN ACCESSIBLE PARKING SPACE	10 14 00	9 / C-4
VS-4	ACCESSIBLE SAFE DISPERSAL AREA	10 14 00	29 / A-801
VS-5	ELECTRIC VEHICLE CHARGING STATION (EVCS)	10 14 00	30 / A-812
VS-6	VAN ACCESSIBLE EVCS	10 14 00	30 / A-812
VS-7	STOP SIGN	10 14 00	14 / A-812
VS-8	BUSES ONLY SIGN	10 14 00	24 / A-812
VS-9	ROW PASSENGER LOADING ZONE SIGN	10 14 00	11 / A-812
VS-10	PASSENGER LOADING ZONE SIGN	10 14 00	6 / A-812
VS-11	TOW AWAY SIGN	10 14 00	27 / A-812

ACCESSIBILTY NOTES

1. PATH OF TRAVEL (P.O.T.) AS INDICATED IS A BARRIER FREE ACCESS WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAXIMUM SLOPE, EXCEPT THAT LEVEL CHANGES DO NOT EXCEED 1/4" VERTICAL AND IS AT LEAST 48" WIDE. SURFACE IS SLIP RESISTANT, STABLE, FIRM, AND SMOOTH. CROSS-SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED. (P.O.T.) SHALL MAINTAIN FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM (11B-307.4) AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM THE WALL AND ABOVE 27" AND LESS THAN 80" (11B-307.2). CONTRACTOR TO VERIFY THAT ALL BARRIERS IN THE PATH OF TRAVEL HAVE BEEN REMOVED OR WILL BE REMOVED UNDER THIS PROJECT, AND PATH OF TRAVEL COMPLIES WITH CBC 11B-DIVISION 4
2. PROVIDE SITE DIRECTIONAL ACCESSIBLE ROUTE SIGNAGE (SDS-1) AT ALL MAJOR JUNCTIONS PER CBC SEC. 11B-216.6.
3. DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT: THE P.O.T. IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE P.O.T. WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T. THAT WERE DETERMINED TO BE NONCOMPLIANT 1) HAVE BEEN IDENTIFIED AND 2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED OR PORTIONS OF THE P.O.T. THAT NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS.
4. DURING CONSTRUCTION, IF P.O.T. ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CBC COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT IN TO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

LEGEND

- - -	ACCESSIBLE PATH OF TRAVEL 4'-0" WIDE MIN. CONCRETE OR A.C. PAVED. SEE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION ON MATERIAL, SLOPES AND ELEVATIONS.
B G	BOY'S AND GIRL'S RESTROOM LOCATIONS
S	STAFF RESTROOM
R	STUDENT RESTROOM
D	DRINKING FOUNTAIN LOCATION
-E-----E-	EXISTING PERIMETER FENCE TO REMAIN
-N-----N-	NEW PERIMETER FENCE
EVCS	ELECTRIC VEHICLE CHARGING STATION
EVC	ELECTRIC VEHICLE CAPABLE

CAMPUS SAFE DISPERSAL

1. SCHOOL GROUNDS MAY BE FENCED AND GATES MAY BE EQUIPPED WITH LOCKS, PROVIDED THAT SAFE DISPERSAL AREAS BASED ON 3 SQUARE FEET PER OCCUPANT ARE LOCATED BETWEEN THE SCHOOL AND THE FENCE. SUCH REQUIRED SAFE DISPERSAL AREAS SHALL NOT BE LOCATED LESS THAN 50 FEET FROM SCHOOL BUILDINGS. CBC 452.1.3.
2. ACCESSIBLE PATH OF EGRESS TRAVEL TO SAFE DISPERSAL AREA AND CLEAR GROUND SPACE FOR 2 PERCENT OF THE OCCUPANTS MEETING SECTION 11B-305.3 SHALL BE PROVIDED. CBC 1028.5.

TOTAL CAMPUS OCCUPANTS = 476 TOTAL PERSONS

476 X 0.02 = 10 ACCESSIBLE PERSONS

SAFE DISPERSAL AREA: 476 PERSONS X 3 SF/PERSON = 1428 SF
ACCESSIBLE SAFE DISPERSAL AREA: 10 PERSONS X 10 SF/PERSON = 100 SF

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STEPHANIE B. MAY
NO. C34108
REN. AUG 31, 27
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DWG V3	04/28/2026

PROJECT NO:22434-E-02

ACCESSIBILITY / SIGNAGE SITE PLAN

A-001

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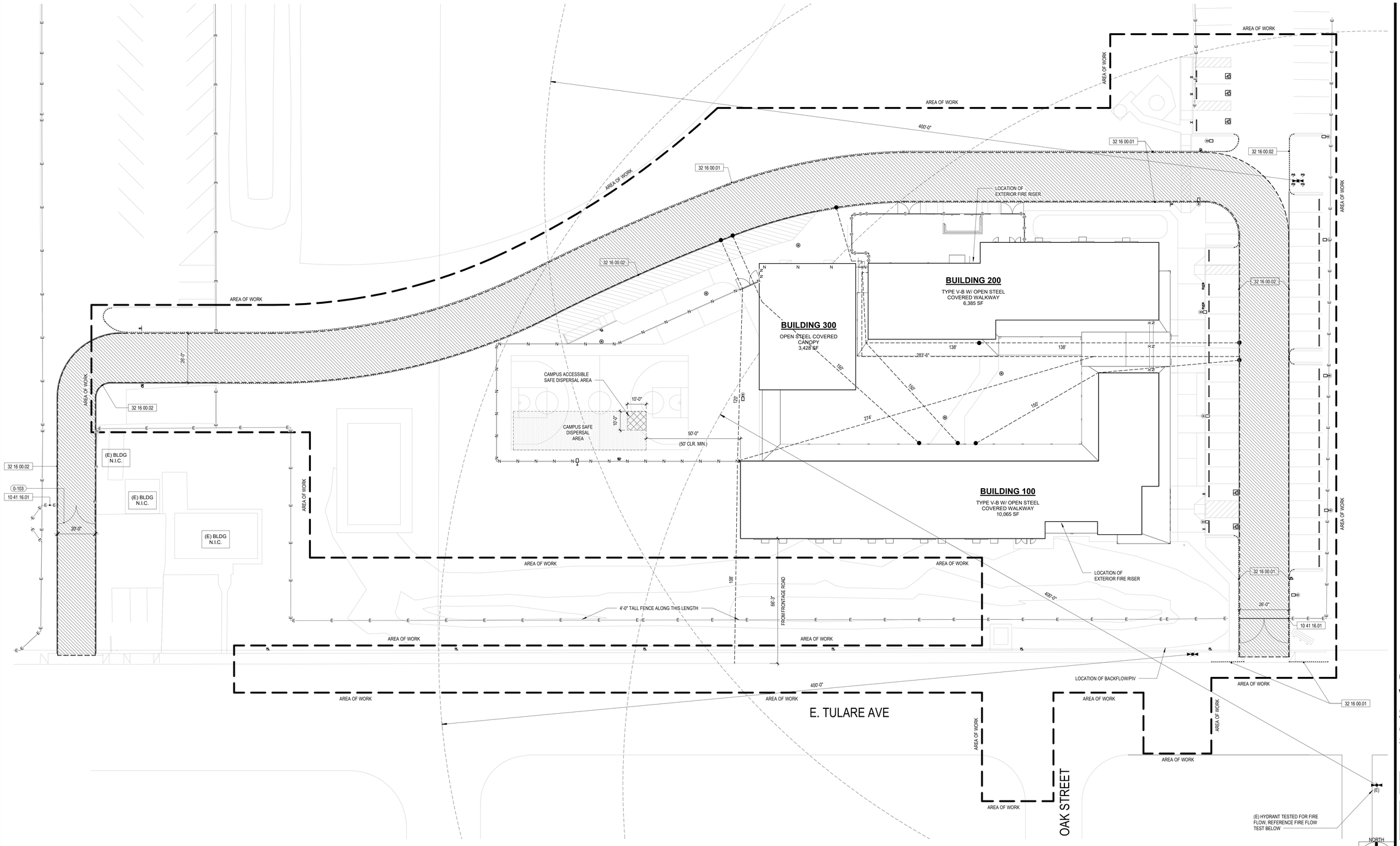


FIRE ACCESS SITE PLAN SCALE: 1" = 20'-0" 1

LEGEND

(E) EXISTING FIRE HYDRANT LOCATION	NEW FIRE HYDRANT LOCATION
	FIRE LANE - 20'-0" WIDE MINIMUM, U.N.O.
-E-E-E-	EXISTING PERIMETER FENCE TO REMAIN
-N-N-N-	NEW 10'-0" PERIMETER FENCE
	FIRE LANE PAINTED CURB
	FIRE LANE PAINTED STRIPE

FIRE FLOW TEST

Hydrant Flow Test Report
Test Date 8/19/25 Test Time 7:30 AM

Location
E. Tulare St. & Pine St.
Shafter, Ca. 93263

Tested by
Another In The Fire Sprinkler
16022 San Mateo Pl.
Victorville, Ca. 92394
NICET Level IV Cert. #140304
C-16 License #1079553
David Holt & Thomas Wise

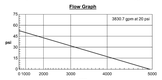
Notes

Road Hydrant
53 psi **static pressure**
50 psi **residual pressure**
1.5 ft **hydrant elevation**

Flow Hydrant(s)

Outlet	Elev	Size	C	Pitot Pressure	Flow
#1		2.5	.9	39	1048 gpm

Flow Graph



Created with the free hydrant flow test program from www.sprinkwise.com

DSA 810

DSA 810
FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

Division of the State Architect (DSA) documents referenced within this publication are available on the DSA website at http://www.dgs.ca.gov/dsa.

To facilitate the Division of the State Architect's (DSA) fire and life safety plan review of project site conditions, DSA requires the design professional to provide the following information at time of project submittal for projects requiring a fire department access road or a fire hydrant per CFC Chapter 5. Please check the appropriate box or fill in as applicable. If no alternate design means for fire department emergency vehicle access, and fire suppression water supply information associated with compliance items 1 through 3 below is to be provided for all project types indicated above, information associated with items 4 through 7 below is to be provided for all project types indicated above. Information associated with items 8 and 9 below is to be provided for all Local Fire Authority (LFA) projects where an alternate design means is being requested.

The Project Information and Fire & Life Safety Information sections are to be completed for all projects and plugged onto the fire access site plan. When an alternate design/means is proposed, all sections on pages 1 and 2 are to be completed and plugged on the fire access site plan.

For additional information refer to the instructions at the end of this form and DSA Policy PL 09-01 *Fire Flow for Schools*.

PROJECT INFORMATION	
School District/Owner	Kern High School District
Project Name/School	Central Valley Continuation High School
Project Address	526 MANNEL AVENUE, SHAFTER, CA 93263

FIRE & LIFE SAFETY INFORMATION			
1.	Has a fire hydrant flow test been performed within the past 12 months? (If yes, provide a copy of the test data.)	Yes ☑	No ☐
2.	If not, will a new water flow test be performed as part of this LFA review?	Yes ☐	No ☑
3.	Is the project located within a designated Fire Hazard Severity Zone (FHSZ) as assessed by the Fire Chief (if yes, indicate FHSZ classification below.)	Yes ☐	No ☑
	Refer to the following website for FHSZ locations: http://frap.fire.ca.gov/mapping/maps.html	Moderate ☐	High ☐ Very High ☐
	Relevant interface trees (WUI's), (if any designations are checked, project design must meet the requirements of CBC Chapter 7A.)		WUI ☐

DSA 10-03 Page 1 of 4
DIVISION OF THE STATE ARCHITECT DEPARTMENT OF GENERAL SERVICES STATE OF CALIFORNIA

DSA 810
FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

CONDITION: MEANS AND METHODS RESOLUTION	ALTERNATE ACCEPTED			
		13Ds	13Rs	13 & 13R
4. Emergency vehicle access roadways do not meet CFC requirements				✓
5a. **Acceptable Alternate:** Emergency vehicle and personnel access as proposed by the project architect is acceptable for providing fire suppression and protection of life and property.	✓			
6. Fire Hydrants: Number and spacing does not meet CFC requirements				✓
6a. **Acceptable Alternate:** Number of fire hydrants and spacing as proposed by the project architect is acceptable for fire suppression and protection of life and property.	✓			
7. Fire Hydrants: Water flow and pressure are less than CFC minimum.				✓
7a. **Acceptable Alternate:** The available flow and pressure is acceptable for providing fire suppression and protection of life and property.				
8. Location of fire department connections serving the sprinkler systems of aboveground systems does not meet CFC requirements.				✓
8a. **Acceptable Alternate:** The location of the fire department connection serving the sprinkler system and the distance to the hydrant is acceptable for providing fire suppression and protection of life and property.				

School District Acceptance of Acceptable Design Alternates
By signing this form, the school district acknowledges and accepts the proposed design as an alternative to California Code of Regulations, Title 24, Part 9 (California Fire Code) requirements listed in Item 5a, 6a or 7a, or both of more of the conditions indicated at Items 4a, 5a or 7a for providing fire and life safety protection of its and property.

Accepted by: Ronald Rhodes Title: Director, Facilities
Signature: [signature] Date: 4/23/26/26

LOCAL FIRE AUTHORITY (LFA) INFORMATION	
LFA Agency Name:	Kern County Fire Dept.
LFA Review Official:	Nicholas Hupp
Title:	Fire Plans Examiner
Work Phone:	(661) 326-0165
Work Email:	nhupp@kerncountyfire.org

LFA Reviewer's Signature: [signature] Date: 3/25/26

DSA 10-03 Page 2 of 4
DIVISION OF THE STATE ARCHITECT DEPARTMENT OF GENERAL SERVICES STATE OF CALIFORNIA

KEYNOTES

0-103	EXISTING 20-FOOT-WIDE GATE TO REMAIN
10 41 16.01	PROVIDE (N) KNOX BOX.
32 16 00.01	PROVIDE RED CURB STRIPING WITH 3" TALL, WHITE STENCILED LETTERS "FIRE LANE – NO PARKING – CVC 22500.1" @ 25'-0" MAX. INTERVALS
32 16 00.02	PROVIDE RED STRIPING WITH 3" TALL, WHITE STENCILED LETTERS "FIRE LANE – NO PARKING – CVC 22500.1" @ 25'-0" MAX. INTERVALS

GENERAL NOTES

1. SEE CIVIL DRAWINGS FOR SITE EXCAVATION, GRADING, DRAINAGE, WATER, SEWER, PAVING, HORIZONTAL AND VERTICAL CONTROL, AND ADDITIONAL SITE AND CONSTRUCTION INFORMATION.
2. RED CURBS ALONG FIRE ACCESS LANE: ALL CURBS THAT OUTLINE THE ACCESS ROADWAY SHALL BE PAINTED RED. WHITE 4-INCH HIGH LETTERS READING "NO PARKING – FIRE LANE" SHALL BE STENCILED EVERY 30 FEET ON THE RED CURB. IF NO CURB IS PRESENT, AN 8-INCH WIDE RED STRIPE SHALL BE PAINTED ON THE PAVEMENT. THE STRIPE SHALL BE LETTERED SAME AS THE CURB.
3. KNOX BOXES TO BE PROVIDED AT MAIN POINTS OF ENTRY TO BE DETERMINED IN COORDINATION WITH KERN COUNTY FIRE DEPARTMENT.
4. NEW BUILDINGS SHALL BE PROVIDED WITH EMERGENCY RESPONDER RADIO COVERAGE IN ACCORDANCE WITH CALIFORNIA FIRE CODE 510. THE PROJECT ARCHITECT (AOR) SHALL CONTACT THE LOCAL FIRE DEPARTMENT AND/OR EMERGENCY COMMUNICATIONS AUTHORITY TO OBTAIN DESIGN, EQUIPMENT SPECIFICATIONS, TESTING AND ACCEPTANCE CRITERIA. PLANS AND REQUESTED DOCUMENTATION SHALL BE SUBMITTED TO THE LOCAL AUTHORITY HAVING JURISDICTION FOR REVIEW AND APPROVAL. UPON COMPLETION, COPIES OF THE APPROVED PLANS, EQUIPMENT DATA SHEETS, TESTING AND ACCEPTANCE DOCUMENTATION SHALL BE PROVIDED TO THE SCHOOL DISTRICT.

FIRE AREA = 25,806 SF (TOTAL GROSS AREA)
FIRE FLOW = 4,250 x 75% = 3,187.5 GPM
MIN. NUMBER OF FIRE HYDRANTS = 4
AVG. SPACING BETWEEN HYDRANTS = 350'
MAX. DISTANCE FROM ANY POINT ON THE STREET OR ROAD FRONTAGE (FIRE LANE) TO A HYDRANT = 210'

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50% CONSTRUCTION DOCUMENTS	10/10/2025
100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO: 22434-E-02

FIRE ACCESS SITE PLAN

A-002

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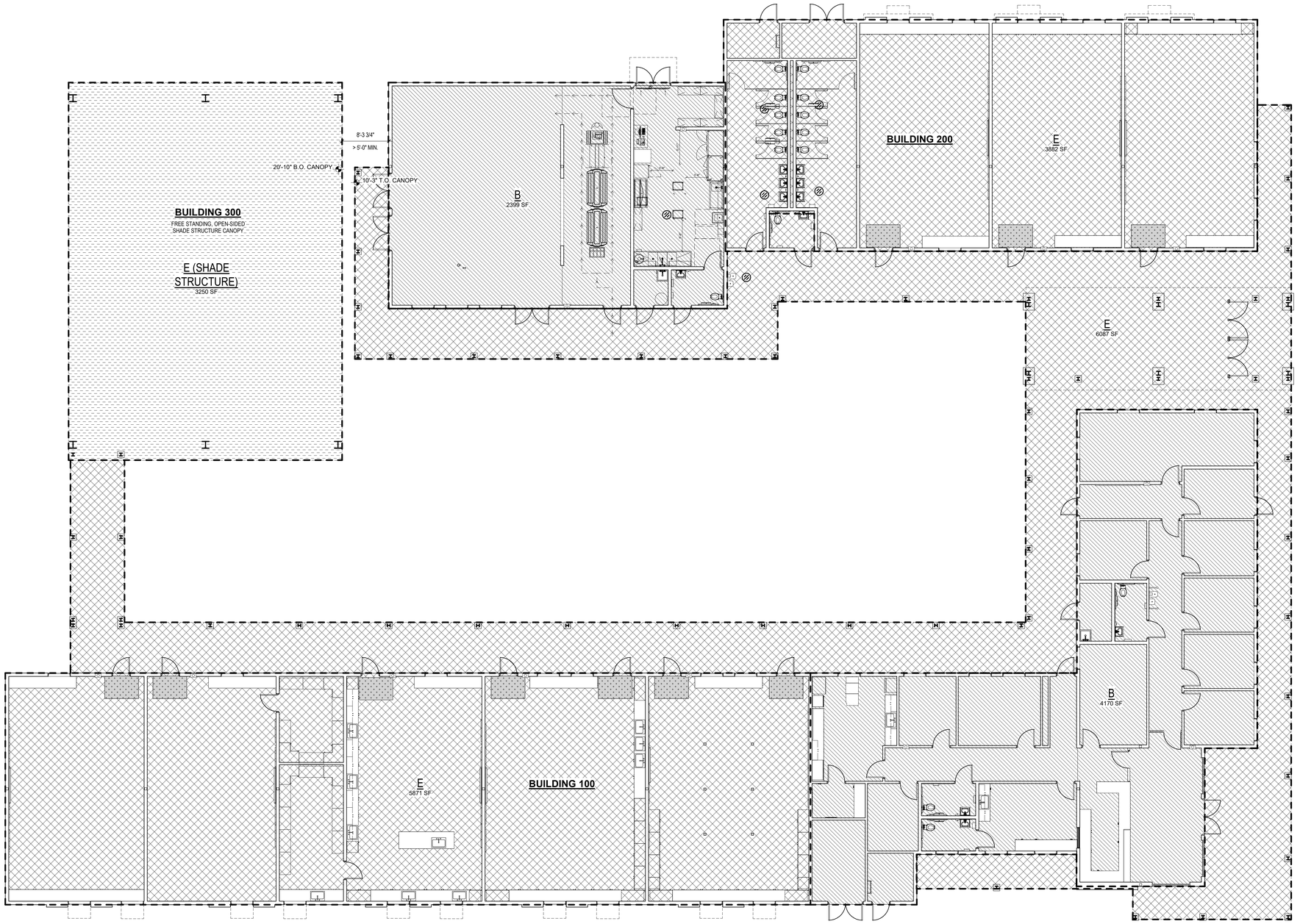

NORTH

BUILDING AREA ANALYSIS

SCALE: 1/8" = 1'-0"

1

BUILDING HEIGHT AND AREA ANALYSIS CBC 2022 - MIXED USE, NON-SEPARATED

OCCUPANCY	CONSTR. TYPE	SPRINKLERED	HEIGHT: MAX. HEIGHT CBC 504.3 (STORIES CBC 504.4)	HEIGHT: ACTUAL HEIGHT (STORIES)	AREA: TABULAR ALLOWABLE AREA FACTOR CBC 506.2	AREA: PROVIDED AREA
FLOOR PLAN						
B	V-B	Yes	60 (3)	24 (1)	36000 (S1)	6569 SF
E	V-B	Yes	60 (2)	24 (1)	38000 (S1)	15840 SF
E (SHADE STRUCTURE)	II-B	No	55 (2)	27 (1)	9500 (NS)	3250 SF

TOTAL: 25,659 SF

NON-SEPARATED OCCUPANCIES (CBC 508.3)

- PER CBC 508.3.2, AREA OF OCCUPANCIES (B, E) ARE ALL LESS THAN THE MOST RESTRICTIVE ALLOWANCE FOR THESE OCCUPANCY GROUPS (36,000 SF) AND ARE THEREFORE CONSIDERED NONSEPARATED OCCUPANCIES.
- PER CBC 508.3.3, NO SEPARATION IS REQUIRED BETWEEN NONSEPARATED OCCUPANCIES.

BUSINESS GROUP B (CBC 304.1)

FOOD PROCESSING ESTABLISHMENTS AND COMMERCIAL KITCHENS NOT ASSOCIATED WITH RESTAURANTS, CAFETERIAS AND SIMILAR DINING FACILITIES NOT MORE THAN 2,500 SQUARE FEET IN AREA. PROVIDED AREA FOR CAFETERIA AND KITCHEN TOTALS 2,280 SQUARE FEET IN AREA.

BUILDING AREA NOTES

ALLOWABLE AREA

- BUILDING AREA AS DEFINED PER CBC 2022: THE AREA INCLUDED WITHIN SURROUNDING EXTERIOR WALLS (OR EXTERIOR WALLS AND FIRE WALLS) EXCLUSIVE OF VENT SHAFTS AND COURTS. AREAS OF THE BUILDING NOT PROVIDED WITH SURROUNDING WALLS SHALL BE INCLUDED IN THE BUILDING AREA IF SUCH AREAS ARE INCLUDED WITHIN THE HORIZONTAL PROJECTION OF THE ROOF OR FLOOR ABOVE.

FREESTANDING, OPEN-SIDED SHADE STRUCTURE CANOPY (IR 31-1 REV 12/03/24)

- PER SUBSECTION 4.2: SHADE STRUCTURES INTENDED AS WEATHER PROTECTION FOR OUTDOOR CLASSROOMS ARE CLASSIFIED AS A GROUP E OCCUPANCY WHEN LOCATED ON A K-12 CAMPUS.
- PER SUBSECTION 5.1: SHADE STRUCTURES PROPOSED FOR LOCATION WITHIN THE FRONTAGE AREA OF A NEW OR EXISTING BUILDING DO NOT INCREASE THE FLOOR AREA OF THAT BUILDING.
- PER SUBSECTION 5.2: OCCUPANCY SEPARATION REQUIREMENTS ARE NOT REQUIRED, NOR ARE PROTECTION OF OPENINGS IN RELATION TO PROPERTY LINES.
- PER SUBSECTION 5.2.2: WHERE THE ROOF LEVEL OF A WALKWAY STRUCTURE IS HIGHER OR LOWER THAN AN ADJACENT BUILDING OR SHADE STRUCTURE, A MAXIMUM FIVE FOOT ROOF OVERLAP IS PERMITTED. IN SUCH CONDITIONS, THERE SHALL BE A MINIMUM TWO FOOT VERTICAL CLEARANCE BETWEEN THE UNDERSIDE OF THE PROJECTION OF THE TOP STRUCTURE TO THE ROOF PLANE BELOW TO ALLOW SMOKE, HEAT, AND GASES TO FREELY VENT UPWARD.

LEGEND

ASSUMED PROPERTY LINE

AREA BOUNDARY

BULDING OCCUPANCY

B

E

E (SHADE STRUCTURE)

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PROJECT NO:22434-E-02

BUILDING AREA AND HEIGHT ANALYSIS

A-003

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EXITING ANALYSIS

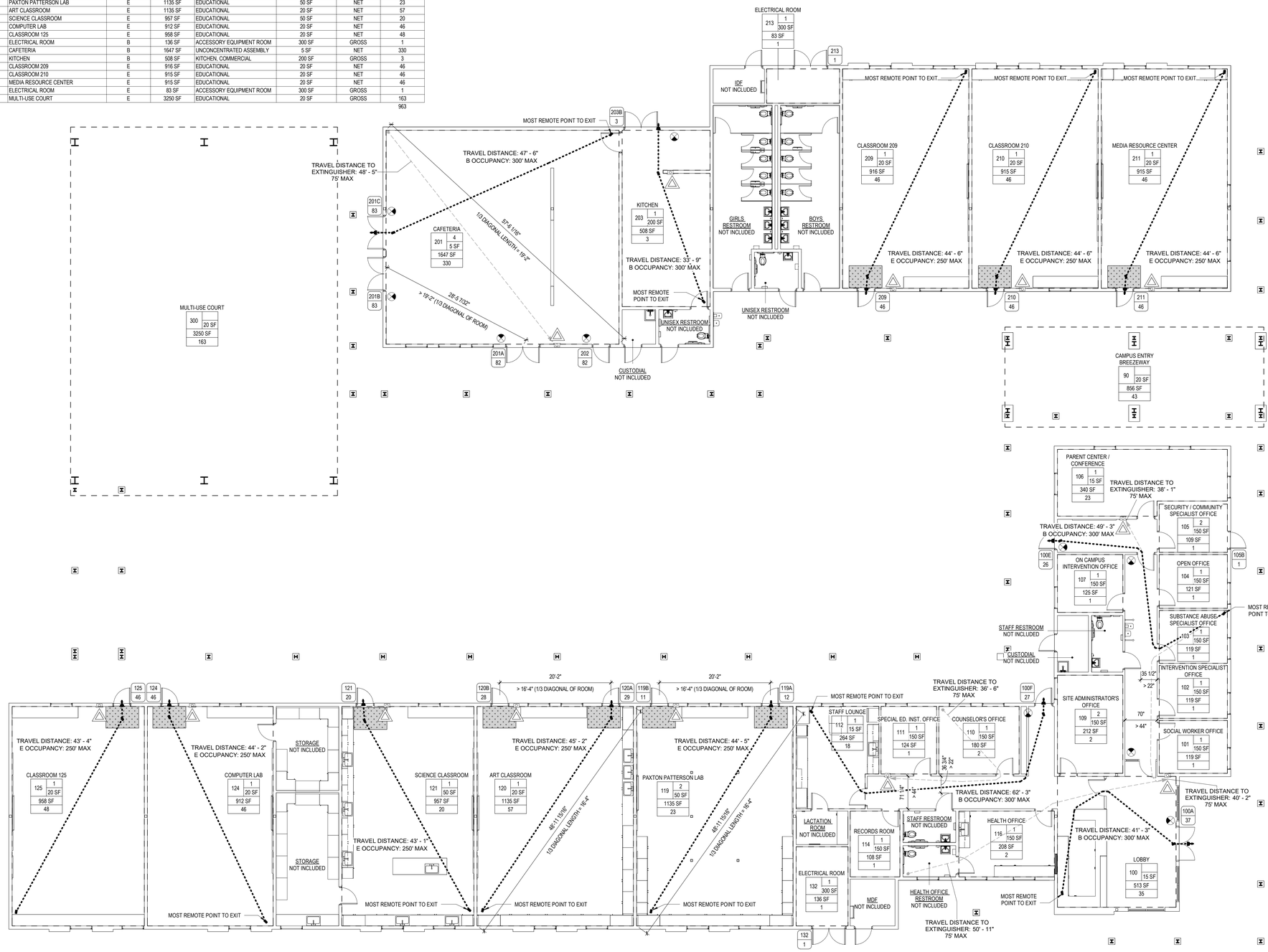
SPACE NO.	SPACE NAME	OCCUPANCY	AREA	FUNCTION OF SPACE	OCCUPANT LOAD FACTOR	GROSS OR NET	OCCUPANT LOAD
90	CAMPUS ENTRY BREEZEWAY	E	856 SF	EDUCATIONAL	20 SF	GROSS	43
100	LOBBY	B	513 SF	BUSINESS AREAS	15 SF	NET	35
101	SOCIAL WORKER OFFICE	B	119 SF	BUSINESS AREAS	150 SF	GROSS	1
102	INTERVENTION SPECIALIST OFFICE	B	119 SF	BUSINESS AREAS	150 SF	GROSS	1
103	SUBSTANCE ABUSE SPECIALIST OFFICE	B	119 SF	BUSINESS AREAS	150 SF	GROSS	1
104	OPEN OFFICE	B	121 SF	BUSINESS AREAS	150 SF	GROSS	1
105	SECURITY / COMMUNITY SPECIALIST OFFICE	B	109 SF	BUSINESS AREAS	150 SF	GROSS	1
106	PARENT CENTER / CONFERENCE	B	340 SF	UNCONCENTRATED ASSEMBLY	15 SF	NET	23
107	ON CAMPUS INTERVENTION OFFICE	B	125 SF	BUSINESS AREAS	150 SF	GROSS	1
109	SITE ADMINISTRATOR'S OFFICE	B	212 SF	BUSINESS AREAS	150 SF	GROSS	2
110	COUNSELOR'S OFFICE	B	180 SF	BUSINESS AREAS	150 SF	GROSS	2
111	SPECIAL ED. INST. OFFICE	B	124 SF	BUSINESS AREAS	150 SF	GROSS	1
112	STAFF LOUNGE	B	264 SF	UNCONCENTRATED ASSEMBLY	15 SF	NET	18
114	RECORDS ROOM	B	108 SF	BUSINESS AREAS	150 SF	GROSS	1
116	HEALTH OFFICE	B	208 SF	BUSINESS AREAS	150 SF	GROSS	2
119	PAXTON PATTERSON LAB	E	1135 SF	EDUCATIONAL	50 SF	NET	23
120	ART CLASSROOM	E	1135 SF	EDUCATIONAL	20 SF	NET	57
121	SCIENCE CLASSROOM	E	957 SF	EDUCATIONAL	50 SF	NET	20
124	COMPUTER LAB	E	912 SF	EDUCATIONAL	20 SF	NET	46
125	CLASSROOM 125	E	958 SF	EDUCATIONAL	20 SF	NET	48
132	ELECTRICAL ROOM	B	136 SF	ACCESSORY EQUIPMENT ROOM	300 SF	GROSS	1
201	CAFETERIA	B	1647 SF	UNCONCENTRATED ASSEMBLY	5 SF	NET	330
203	KITCHEN	B	508 SF	KITCHEN, COMMERCIAL	200 SF	GROSS	3
209	CLASSROOM 209	E	916 SF	EDUCATIONAL	20 SF	NET	46
210	CLASSROOM 210	E	915 SF	EDUCATIONAL	20 SF	NET	46
211	MEDIA RESOURCE CENTER	E	915 SF	EDUCATIONAL	20 SF	NET	46
213	ELECTRICAL ROOM	E	83 SF	ACCESSORY EQUIPMENT ROOM	300 SF	GROSS	1
300	MULTI-USE COURT	E	3250 SF	EDUCATIONAL	20 SF	GROSS	163
TOTAL							963

BUILDING 100 EXIT DOOR SCHEDULE

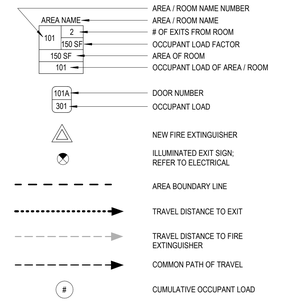
NO.	SERVING ROOM	OCCUPANT LOAD	WIDTH FACTOR	EXIT WIDTH REQUIRED	EXIT WIDTH PROVIDED
100E	CORRIDOR 100B	26	0.2	5.2	36"
100F	CORRIDOR 100C	27	0.2	5.4	36"
105B	SECURITY / COMMUNITY SPECIALIST OFFICE 105	1	0.2	0.2	36"
119A	PAXTON PATTERSON LAB 119	12	0.2	2.4	36"
119B	PAXTON PATTERSON LAB 119	11	0.2	2.2	36"
120A	ART CLASSROOM 120	29	0.2	5.8	36"
120B	ART CLASSROOM 120	28	0.2	5.6	36"
121	SCIENCE CLASSROOM 121	20	0.2	4	36"
124	COMPUTER LAB 124	46	0.2	9.2	36"
125	CLASSROOM 125	46	0.2	9.2	36"
132	ELECTRICAL ROOM 115	1	0.2	0.2	72"

BUILDING 200 EXIT DOOR SCHEDULE

NO.	SERVING ROOM	OCCUPANT LOAD	WIDTH FACTOR	EXIT WIDTH REQUIRED	EXIT WIDTH PROVIDED
201A	CAFETERIA 201	82	0.2	16.4	72"
201B	CAFETERIA 201	83	0.2	16.6	72"
201C	CAFETERIA 201	83	0.2	16.6	72"
202	CAFETERIA 201	82	0.2	16.4	36"
203B	KITCHEN 203	3	0.2	0.6	72"
209	CLASSROOM 209	46	0.2	9.2	36"
210	CLASSROOM 210	46	0.2	9.2	36"
211	MEDIA RESOURCE CENTER 211	46	0.2	9.2	36"
213	ELECTRICAL ROOM 213	1	0.2	0.2	72"



LEGEND



GENERAL NOTES

1. OCCUPANT LOAD FACTORS ARE PER 2022 CBC TABLE 1004.5.
2. PROVIDE OCCUPANCY LOAD SIGN IN ROOMS OR SPACES THAT IS USED FOR ASSEMBLY, CLASSROOM, DINING, DRINKING OR SIMILAR PURPOSE HAVING AN OCCUPANCY LOAD OF 50 OR MORE TO COMPLY WITH 2022 CBC 1004.9.
3. ALL EGRESS DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT COMPLYING WITH 2022 CBC 1010.1.9.
4. EGRESS STAIRS, CORRIDORS, DOORS AND COMPONENTS TO BE SIZED ACCORDING TO CBC 1005.3, 1009, 1010, 1011, 1012, AND 1020.
5. EXIT ACCESS TRAVEL DISTANCE SHALL NOT EXCEED THE VALUES GIVEN IN 2022 CBC TABLE 1017.2 FOR EACH OCCUPANCY.
6. PROVIDE EXIT SIGNS COMPLYING WITH CBC 1013. REFER TO SIGNAGE PLAN FOR ADDITIONAL INFORMATION.
7. REFER TO ELECTRICAL DRAWINGS FOR ILLUMINATED EXIT SIGNS COMPLYING WITH CBC 1013.

LIFE SAFETY PLAN SCALE: 1/8" = 1'-0" (1)

NORTH

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CENTRAL VALLEY HIGH SCHOOL
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526 MANNEL AVENUE
SHAFTER, CA 93263

DRAWING SUBMITTAL SCHEDULE

	50% CONSTRUCTION DOCUMENTS	10/10/2025
	100% CONSTRUCTION DOCUMENTS	11/21/2025
	DWG V2	02/27/2026
	DWG V3	04/28/2026

PROJECT NO: 22434-E-02

FIRE LIFE SAFETY

A-004

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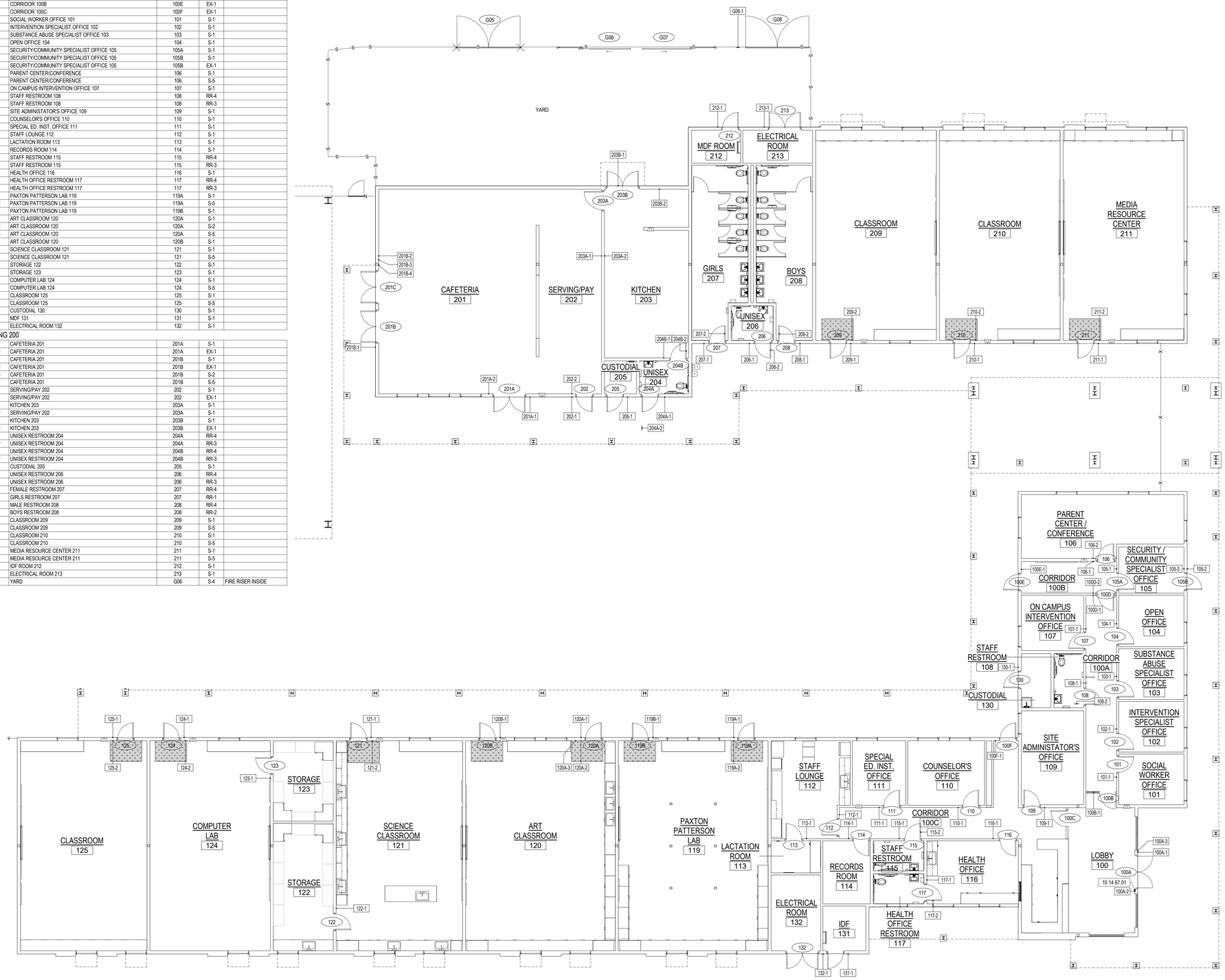
SIGNAGE SCHEDULE

MARK	ROOM ASSOCIATED	DOOR ASSOCIATED	TYPE	MESSAGE
BUILDING 100				
100A-1	LOBBY 100	100A	S-3	
100A-2	LOBBY 100	100A	EX-1	
100A-3	LOBBY 100	100A	S-6	
100B-1	CORRIDOR 100A	100B	S-1	
100D-1	CORRIDOR 100A	100D	EX-1	
100D-2	CORRIDOR 100A	100D	S-1	
100E-1	CORRIDOR 100B	100E	EX-1	
100F-1	CORRIDOR 100C	100F	EX-1	
101-1	SOCIAL WORKER OFFICE 101	101	S-1	
102-1	INTERVENTION SPECIALIST OFFICE 102	102	S-1	
103-1	SUBSTANCE ABUSE SPECIALIST OFFICE 103	103	S-1	
104-1	OPEN OFFICE 104	104	S-1	
105-1	SECURITY/COMMUNITY SPECIALIST OFFICE 105	105A	S-1	
105-2	SECURITY/COMMUNITY SPECIALIST OFFICE 105	105B	S-1	
105-3	SECURITY/COMMUNITY SPECIALIST OFFICE 105	105B	EX-1	
106-1	PARENT CENTER/CONFERENCE	106	S-1	
106-2	PARENT CENTER/CONFERENCE	106	S-5	
107-1	ON CAMPUS INTERVENTION OFFICE 107	107	S-1	
108-1	STAFF RESTROOM 108	108	RR-4	
108-2	STAFF RESTROOM 108	108	RR-3	
109-1	SITE ADMINISTATOR'S OFFICE 109	109	S-1	
110-1	COUNSELOR'S OFFICE 110	110	S-1	
111-1	SPECIAL ED. INST. OFFICE 111	111	S-1	
112-1	STAFF LOUNGE 112	112	S-1	
113-1	LACTATION ROOM 113	113	S-1	
114-1	RECORDS ROOM 114	114	S-1	
115-1	STAFF RESTROOM 115	115	RR-4	
115-2	STAFF RESTROOM 115	115	RR-3	
116-1	HEALTH OFFICE 116	116	S-1	
117-1	HEALTH OFFICE RESTROOM 117	117	RR-4	
117-2	HEALTH OFFICE RESTROOM 117	117	RR-3	
119A-1	PAXTON PATTERSON LAB 119	119A	S-1	
119A-2	PAXTON PATTERSON LAB 119	119A	S-5	
119B-1	PAXTON PATTERSON LAB 119	119B	S-1	
120A-1	ART CLASSROOM 120	120A	S-1	
120A-2	ART CLASSROOM 120	120A	S-2	
120A-3	ART CLASSROOM 120	120A	S-5	
120B-1	ART CLASSROOM 120	120B	S-1	
121-1	SCIENCE CLASSROOM 121	121	S-1	
121-2	SCIENCE CLASSROOM 121	121	S-5	
122-1	STORAGE 122	122	S-1	
123-1	STORAGE 123	123	S-1	
124-1	COMPUTER LAB 124	124	S-1	
124-2	COMPUTER LAB 124	124	S-5	
125-1	CLASSROOM 125	125	S-1	
125-2	CLASSROOM 125	125	S-5	
130-1	CUSTODIAL 130	130	S-1	
131-1	MDF 131	131	S-1	
132-1	ELECTRICAL ROOM 132	132	S-1	
BUILDING 200				
201A-1	CAFETERIA 201	201A	S-1	
201A-2	CAFETERIA 201	201A	EX-1	
201B-1	CAFETERIA 201	201B	S-1	
201B-2	CAFETERIA 201	201B	EX-1	
201B-3	CAFETERIA 201	201B	S-2	
201B-4	CAFETERIA 201	201B	S-5	
202-1	SERVING/PAY 202	202	S-1	
202-2	SERVING/PAY 202	202	EX-1	
203A-1	KITCHEN 203	203A	S-1	
203A-2	SERVING/PAY 202	203A	S-1	
203B-1	KITCHEN 203	203B	S-1	
203B-2	KITCHEN 203	203B	EX-1	
204A-1	UNISEX RESTROOM 204	204A	RR-4	
204A-2	UNISEX RESTROOM 204	204A	RR-3	
204B-1	UNISEX RESTROOM 204	204B	RR-4	
204B-2	UNISEX RESTROOM 204	204B	RR-3	
205-1	CUSTODIAL 205	205	S-1	
206-1	UNISEX RESTROOM 206	206	RR-4	
206-2	UNISEX RESTROOM 206	206	RR-3	
207-1	FEMALE RESTROOM 207	207	RR-4	
207-2	GIRLS RESTROOM 207	207	RR-1	
208-1	MALE RESTROOM 208	208	RR-4	
208-2	BOYS RESTROOM 208	208	RR-2	
209-1	CLASSROOM 209	209	S-1	
209-2	CLASSROOM 209	209	S-5	
210-1	CLASSROOM 210	210	S-1	
210-2	CLASSROOM 210	210	S-5	
211-1	MEDIA RESOURCE CENTER 211	211	S-1	
211-2	MEDIA RESOURCE CENTER 211	211	S-5	
212-1	IDF ROOM 212	212	S-1	
213-1	ELECTRICAL ROOM 213	213	S-1	
G06-1	YARD	G06	S-4	FIRE RISER INSIDE



SIGNAGE LEGEND

ABC#-# SIGN MARK TAG

SIGN TYPES

EXIT: EX-1
SEE DETAIL 24 / A-801

ROOM IDENTIFICATION: S-1
SEE DETAIL 24 / A-801

ROOM MAXIMUM OCCUPANCY: S-2
SEE DETAIL 24 / A-801

ACCESSIBLE BUILDING ENTRANCE: S-3
SEE DETAIL 24 / A-801

FIRE RISER IDENTIFICATION: S-4
SEE DETAIL 24 / A-801

ASSISTIVE LISTENING SYSTEM: S-5
SEE DETAIL 24 / A-801

FIRE ALARM PANEL IDENTIFICATION: S-6
SEE DETAIL 24 / A-801

RESTROOM: RR-1, RR-2, RR-3, RR-4
SEE DETAIL 28 / A-801

GENERAL NOTES

1. SEE DETAIL 26/A-801 FOR TYPICAL DOOR SIGNAGE MOUNTING

KEYNOTES

10 14 67.01	SIGN TO BE UPSIZED TO MATCH SIGN ON OPPOSITE SIDE OF GLASS

NORTH

SIGNAGE PLAN SCALE: 1/8" = 1'-0" (1)

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526 MANNEL AVENUE
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DRAWING SUBMITTAL SCHEDULE

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50% CONSTRUCTION DOCUMENTS	10/10/2025
100% CONSTRUCTION DOCUMENTS	11/21/2025
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DWG V3	04/28/2026

PROJECT NO: 22434-E-02

SIGNAGE PLAN

A-005

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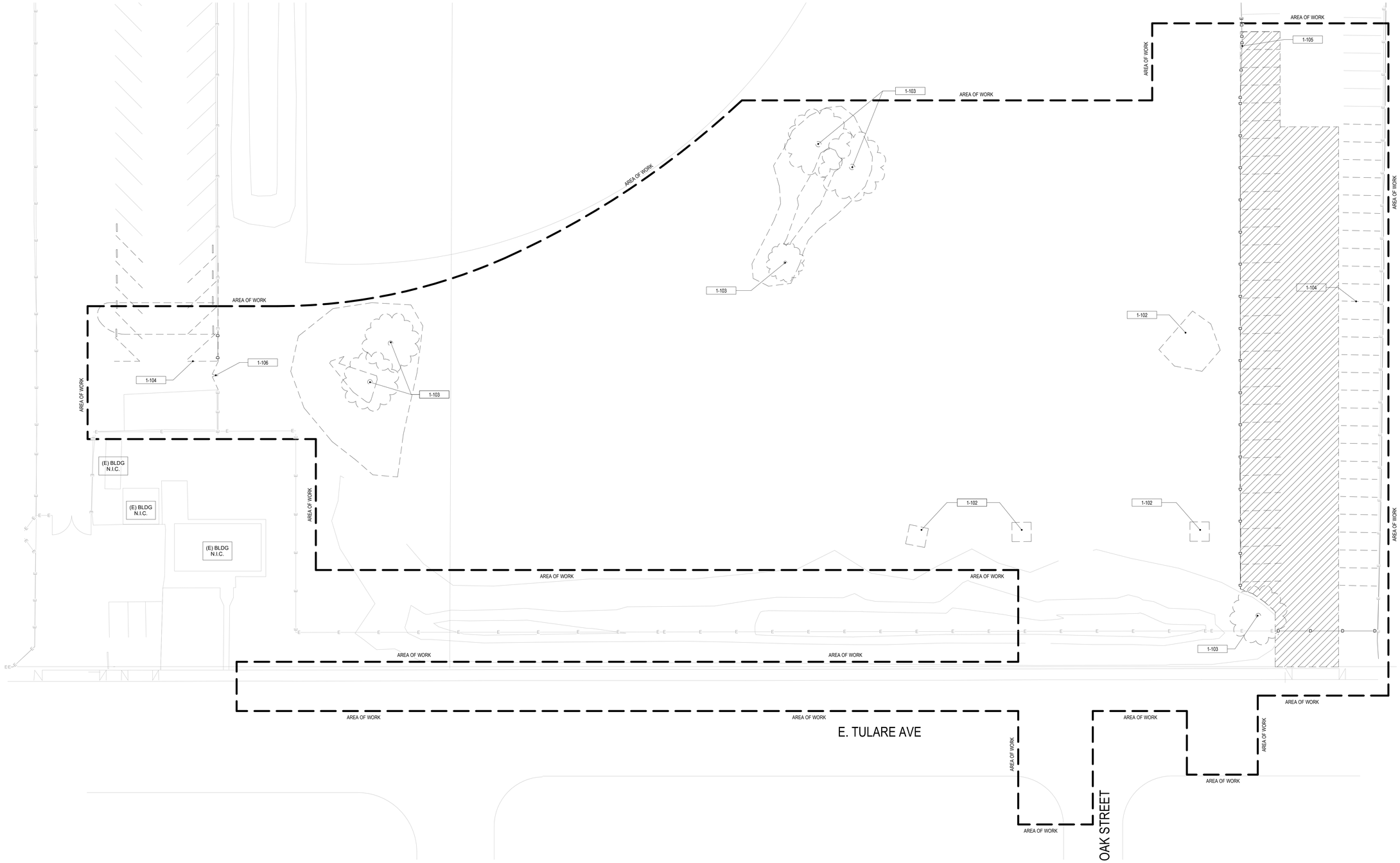

DEMOLITION SITE PLAN SCALE: 1" = 20'-0" (1)

LEGEND

BUILDING ID	BUILDING IDENTIFICATION DESIGNATION
-E-----E-----E-	EXISTING PERIMETER FENCE TO REMAIN
-D-----D-----D-	EXISTING PERIMETER FENCE TO BE REMOVED
	EXISTING WORK TO BE DEMOLISHED
	EXISTING ASPHALT TO DE DEMOLISHED

KEYNOTES

1-102	DEMOLISH CONCRETE SHOTPUT
1-103	DEMOLISH TREE; SEE LANDSCAPE
1-104	DEMOLISH PARKING STRIPING
1-105	DEMOLISH EXISTING FENCE. TERMINATE FABRIC TO NEAREST LINE POST
1-106	DEMOLISH (E) CHAINLINK GATE

GENERAL NOTES

1. REFER TO CIVIL FOR ADDITIONAL SITE DEMOLITION NOT SHOWN ON THIS SHEET
2. EXISTING TREES TO REMAIN, U.N.O.
3. NO DEMOLITION SHALL BEGIN UNTIL PLANS, INCLUDING THE DEMOLITION WORK, HAVE BEEN APPROVED BY DSA.

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PROJECT NO: 22434-E-02

DEMOLITION SITE PLAN

A-101

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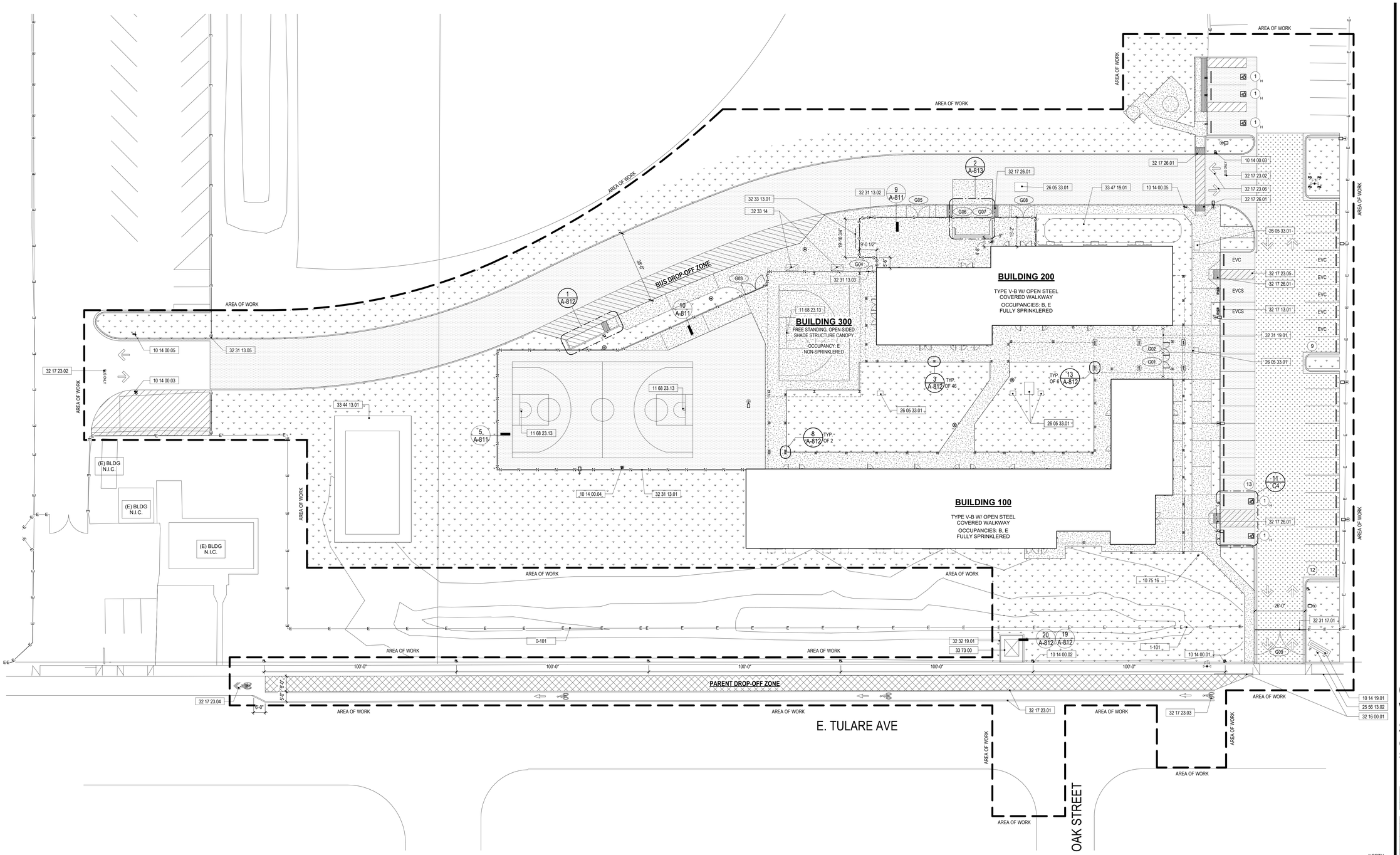

NEW WORK SITE PLAN

SCALE: 1" = 20'-0"

1

LEGEND

BUILDING ID	BUILDING IDENTIFICATION DESIGNATION		POLE LIGHT, BASE DETAIL		PIPE GUARD / BOLLARD
E E E	EXISTING PERIMETER FENCE TO REMAIN	EVCS	ELECTRIC VEHICLE CHARGING STATION		DEDICATED BIKE LANE SYMBOL
N N N	(N) 10'-0" CHAINLINK PERIMETER FENCE	EVC	ELECTRIC VEHICLE CAPABLE		SHARE BIKE LANE SYMBOL
X X X	(N) 10'-0" DECORATIVE PERIMETER FENCE	1	PARKING COUNT - STANDARD		ACCESSIBLE ACCESS SYMBOL
S S S	(N) 10'-0" CHAINLINK FENCE W/ PRIVACY SLATS	1 H	PARKING COUNT - ACCESSIBLE SPACE		PRE-CAST CONC WHEEL STOP
S	STOP SIGN		PARKING STALL ACCESSIBLE STALLS AS INDICATED ON PLAN		TRASH ENCLOSURE/ CONCRETE PAD
W	ACCESSIBLE PARKING SIGN		ACCESSIBLE RAMP. DASHED RAMPS ARE N.I.C.		CONCRETE PAVING CP-1
V	ACCESSIBLE VAN PARKING SIGN		WHITE PAINTED TRAFFIC DIRECTION ARROWS TYPICAL		ASPHALT PAVING AC-1
EVCS	ELECTRIC VEHICLE CHARGING STATION SIGN				LANDSCAPE
PS	PASSENGER LOADING ZONE SIGN		WHITE PAINTED STOP SIGN LIMIT LINE AND TRAFFIC LANE STRIPE		ASPHALT SLURRY COAT
BO	BUSES ONLY SIGN				
	TRANSFORMER/PAD				
	UTILITY POLE				
F.H.	FIRE HYDRANT				

GENERAL NOTES

1. REFER TO CIVIL FOR GRADING AND UTILITY INFORMATION.
2. REFER TO LANDSCAPE FOR HARDSCAPE, PLANTING INFORMATION, SITE STAIRS AND ASSOCIATED HANDRAILS.

KEYNOTES

0-101	EXISTING CHAINLINK FENCE TO REMAIN
1-101	EXISTING FENCE TO BE MODIFIED
10 14 00.01	(E) BIKE LANE AND BEGIN SIGN; PROVIDE (N) 12X18 ROW PASSENGER LOADING ZONE SIGNAGE PER DETAIL 11/A-812 BELOW BEGIN SIGN
10 14 00.02	(N) 12X18 ROW PASSENGER LOADING ZONE SIGNAGE PER DETAIL 11/A-812 @ 100' INTERVALS, TYP. OF 5
10 14 00.03	(N) 12X18 'BUSES ONLY' SIGNAGE PER DETAIL 13/A-812
10 14 00.04	(N) SAFE DISPERSAL AREA SIGNAGE PER DETAIL 29/A-801
10 14 00.05	(N) STOP SIGN PER DETAIL 14/A-812
10 14 19.01	MONUMENT SIGNAGE PER DETAIL 15/A-811
10 75 16	GROUND-SET FLAGPOLES
11 68 23.13	EXTERIOR BASKETBALL EQUIPMENT
25 56 13.02	MONUMENT SIGNAGE LIGHTING; REFER TO ELECTRICAL
26 05 33.01	ELECTRICAL PULL BOX PER ELECTRICAL.
32 16 00.01	PROVIDE RED CURB STRIPING WITH 3" TALL, WHITE STENCILED LETTERS 'FIRE LANE – NO PARKING – CVC 22500.1' @ 25'-0" MAX. INTERVALS
32 17 13.01	PRECAST CONCRETE WHEEL STOP PER 26/A-812
32 17 23.01	6" WHITE PAINTED STRIPE
32 17 23.02	12" TALL 'BUS ONLY' WHITE PAINTED LETTERING
32 17 23.03	PROVIDE BIKE LANE SYMBOL AND ARROW AT 200' MAX. ALONG DEDICATED BIKE LANE PER DETAIL 25/A-811
32 17 23.04	PROVIDE SHARE BIKE LANE PAINT MARKING PER DETAIL 25/A-811
32 17 23.05	EV MESSAGE/STALL STRIPING PER 17/A-812
32 17 23.06	WHITE PAINTED ARROW PER DETAIL 30/A-811
32 17 26.01	TRUNCATED DOME TACTILE WARNING SURFACING PER 10/C-4
32 31 13.01	10'-0" CHAINLINK PERIMETER FENCE
32 31 13.02	10'-0" CHAINLINK PERIMETER FENCE W/ FOREST GREEN PRIVACY SLATS
32 31 13.03	CHAINLINK GATE W/ PANIC HARDWARE PER 13/A-811
32 31 13.05	CHAINLINK FENCE TERMINATION POST PER 26/A-812
32 31 17.01	VEHICULAR GATE PER 14/A-811
32 31 19.01	10'-0" DECORATIVE PERIMETER FENCE & GATE PER 11/A-811
32 32 19.01	UNIT MASONRY RETAINING WALL
32 33 13.01	SITE BICYCLE RACKS PER DETAIL 3/A-811
32 33 14	SITE BICYCLE LOCKERS
33 44 13.01	DRAIN BASIN PER CIVIL
33 47 19.01	DETENTION BASIN; SEE CIVIL
33 73 00	UTILITY TRANSFORMERS

PARKING SUMMARY

	TOTAL PROVIDED	STANDARD (INCLUDING EV CAPABLE)	ACCESSIBLE REQUIRED	ACCESSIBLE PROVIDED	ACCESSIBLE VAN REQUIRED (INCLUDED IN ACCESSIBLE REQUIRED COUNT)	ACCESSIBLE VAN PROVIDED (INCLUDED IN ACCESSIBLE PROVIDED COUNT)	EV CAPABLE SPACES REQUIRED	EV CAPABLE SPACES PROVIDED	EVCS REQUIRED (INCLUDED IN EV CAPABLE REQUIRED COUNT)	EVCS PROVIDED (INCLUDED IN EV CAPABLE PROVIDED COUNT)	ACCESSIBLE VAN EVCS REQUIRED	ACCESSIBLE VAN EVCS PROVIDED
NEW STAFF/VISITOR PARKING SPACES	36	34	2	2	1	1	8	8	2	2	1	1
EXISTING STUDENT PARKING TO REMAIN	127	118	5	9	1	2	-	-	-	-	-	-
TOTAL PARKING SPACES	163	152	7	11	2	3	8	8	2	2	1	1

BIKE PARKING SUMMARY

	TOTAL	STAFF REQUIRED	STAFF PROVIDED	STUDENT REQUIRED	STUDENT PROVIDED
PARKING SPACES	20	4	4	16	16

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DWG V3	04/28/2026

PROJECT NO:22434-E-02

NEW WORK SITE PLAN

A-102

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WALL LEGEND

- NEW WALL - REFER TO WALL TYPES
- RECESSED FIRE EXTINGUISHER CABINET
- MATCHLINE

GENERAL NOTES

1. FIRST FLOOR FINISH FLOOR FOR BUILDING 1 IS 0'-0" = 356.10'. FIRST FLOOR FINISH FLOOR FOR BUILDING 2 IS -0'-4 3/4" = 355.70'
2. DOOR FRAMES LOCATED NEAR ADJACENT WALLS OR CASEWORK TO BE 4" FROM INSIDE CORNER, OR TO NEAREST BLOCK MODULE AT CMU WALLS, U.N.O.
3. COORDINATE AND CONFIRM EXACT LOCATIONS OF ALL FLOOR MOUNTED OUTLETS PRIOR TO CONCRETE PLACEMENT, SEE ELECTRICAL
4. FOR TYPICAL WALL FRAMING DETAILS, SEE SHEET A-501
5. REFER TO "GENERAL NOTES" SECTION ON GENERAL NOTES SHEET FOR DIMENSIONING INFORMATION.
6. AT CONDITIONS WITH FLOORS SLOPED TO DRAIN, PROVIDE A FLAT SURFACE DIRECTLY UNDER ALL FLOOR MOUNTED TOILETS.
7. REFER TO TITLE SHEET TS-1 FOR SYMBOLS LEGEND NOT SHOWN ABOVE.

KEYNOTES

10 73 16.01 LINE OF CANOPY ABOVE, TYP.

FLOOR PLAN SCALE: 1/8" = 1'-0" (1)

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PROJECT NO: 22434-E-02

FLOOR PLAN

A-201

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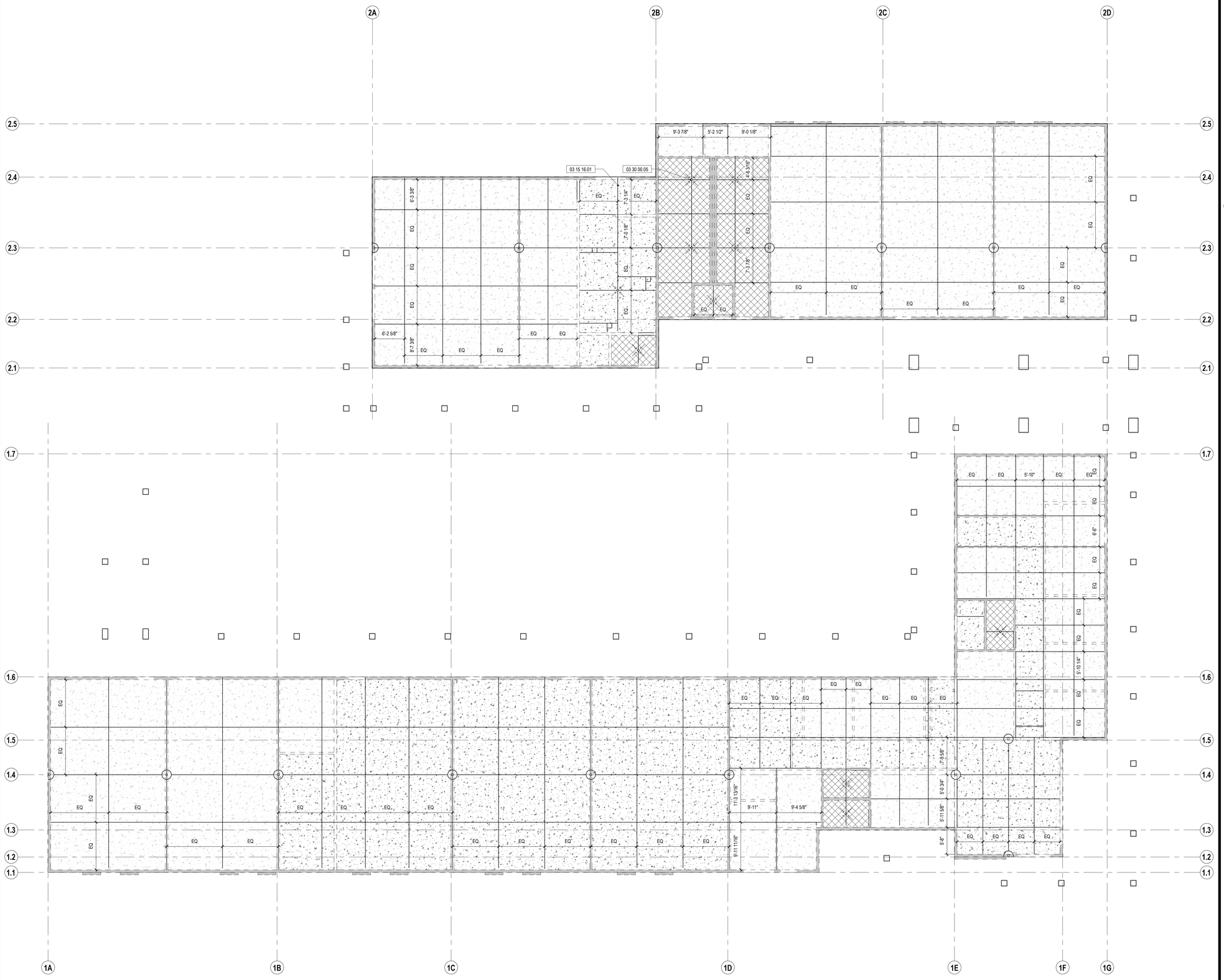

SLAB PLAN SCALE: 1/8" = 1'-0" (1)

LEGEND

- CONCRETE SLAB
- DEPRESSED CONCRETE SLAB
- POLISHED CONCRETE FLOOR
- WALLS
- CONCRETE CURB
- CONCRETE CONTROL JOINTS
- COLUMN FOOTING CONTROL JOINTS

GENERAL NOTES

1. FIRST FLOOR FINISH FLOOR FOR BUILDING 1 IS 0'-0" = 356.10'
   FIRST FLOOR FINISH FLOOR FOR BUILDING 2 IS -0'-4 3/4" = 355.70'
2. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION ON SLAB AND FOOTINGS.
3. CONCRETE CURBS SHOWN TO BE 6" TALL, U.N.O.
4. COORDINATE AND CONFIRM EXACT LOCATIONS OF ALL FLOOR MOUNTED OUTLETS PRIOR TO CONCRETE PLACEMENT. SEE ELECTRICAL.
5. REFER TO FLOOR PLAN FOR WALL LOCATIONS.

KEYNOTES

03 15 16.01 03 30 00.05	SLOPE MORTAR BED ON DEPRESSED SLAB TO FLOOR DRAINS AT 2% MAX. IN ALL DIRECTIONS. TYP.

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NO. C34108
REN. AUG 31, 27
STATE OF CALIFORNIA

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CENTRAL VALLEY HIGH SCHOOL
CONTINUATION HIGH SCHOOL CAMPUS
526 MANNEL AVENUE
SHAFTER, CA 93263

DRAWING SUBMITTAL SCHEDULE

50% CONSTRUCTION DOCUMENTS	10/10/2025
100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO: 22434-E-02

SLAB PLAN

A-202

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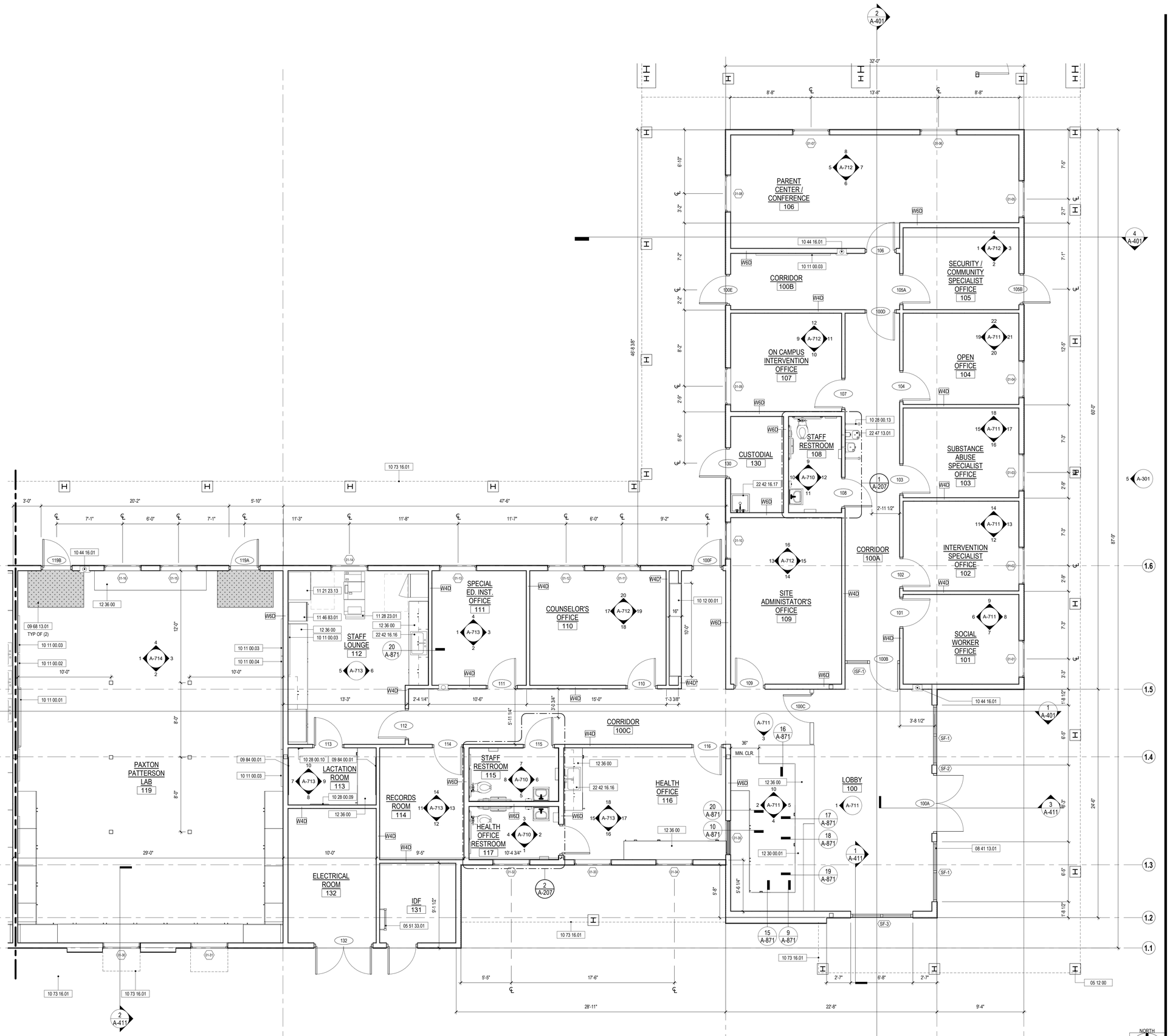

ENLARGED BUILDING 100 FLOOR PLAN EAST SCALE: 1/4" = 1'-0" (1)

ENLARGED LEGEND

MATCHLINE

GENERAL NOTES

1. SEE FLOOR PLANS FOR FINISH FLOOR HEIGHTS.
2. DOOR FRAMES LOCATED NEAR ADJACENT WALLS OR CASEWORK TO BE 4" FROM INSIDE CORNER, OR TO NEAREST BLOCK MODULE AT CMU WALLS, U.N.O.
3. FOR MOUNTING HEIGHTS OF TOILET ROOM ACCESSORIES, REFER TO DETAIL 11/A-801, U.N.O.
4. FOR TYPICAL WALL FRAMING DETAILS, SEE SHEET A-501
5. REFER TO "GENERAL NOTES" SECTION ON GENERAL NOTES SHEET FOR DIMENSIONING INFORMATION.
6. AT CONDITIONS WITH FLOORS SLOPED TO DRAIN, PROVIDE A FLAT SURFACE DIRECTLY UNDER ALL FLOOR MOUNTED TOILETS.
7. REFER TO TITLE SHEET TS-1 FOR SYMBOLS LEGEND NOT SHOWN ABOVE.

KEYNOTES

05 12 00	STRUCTURAL STEEL FRAMING
05 51 33.01	ROOF ACCESS LADDER PER DETAIL 10/A-831
08 41 13.01	ALUMINUM-FRAMED STOREFRONT SYSTEM; SEE STOREFRONT SCHEDULE
09 68 13.01	WALK-OFF MATS
09 84 00.01	FABRIC-COVERED ACOUSTICAL PANELS
10 11 00.01	INTERACTIVE DISPLAY TOUCHSCREEN WHITEBOARD
10 11 00.02	TOUCHSCREEN WHITEBOARD FRAME
10 11 00.03	TACKBOARD
10 11 00.04	MARKERBOARD
10 12 00.01	RECESSED TROPHY CASE
10 28 00.09	FULL-LENGTH MIRROR
10 28 00.10	WALL HOOK
10 28 00.13	DRINKING FOUNTAIN PROTRUSION PROTECTION GRAB BAR
10 44 16.01	DLDRECESSED FIRE EXTINGUISHER CABINET. MOUNTED PER DETAIL 7/A-822
10 73 16.01	LINE OF CANOPY ABOVE, TYP.
11 21 23.13	MERCHANDISE VENDING MACHINE, O.F.O.I.
11 28 23.01	COPIER, O.F.O.I.
11 46 83.01	FLOOR-MOUNTED ICE MACHINE, O.F.O.I.
12 30 00.01	CUSTOM LOBBY WORKSTATION AND CHECK-IN COUNTER
12 36 00	COUNTERTOPS
22 42 16.16	COMMERCIAL SINKS
22 42 16.17	MOP SINK
22 47 13.01	HILOW HYDRATION STATION WITH BOTTLE FILLER; REFER TO PLUMBING

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DRAWING SUBMITTAL SCHEDULE

50% CONSTRUCTION DOCUMENTS	10/10/2025
100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO: 22434-E-02

ENLARGED FLOOR PLANS - BUILDING 100 EAST

A-203

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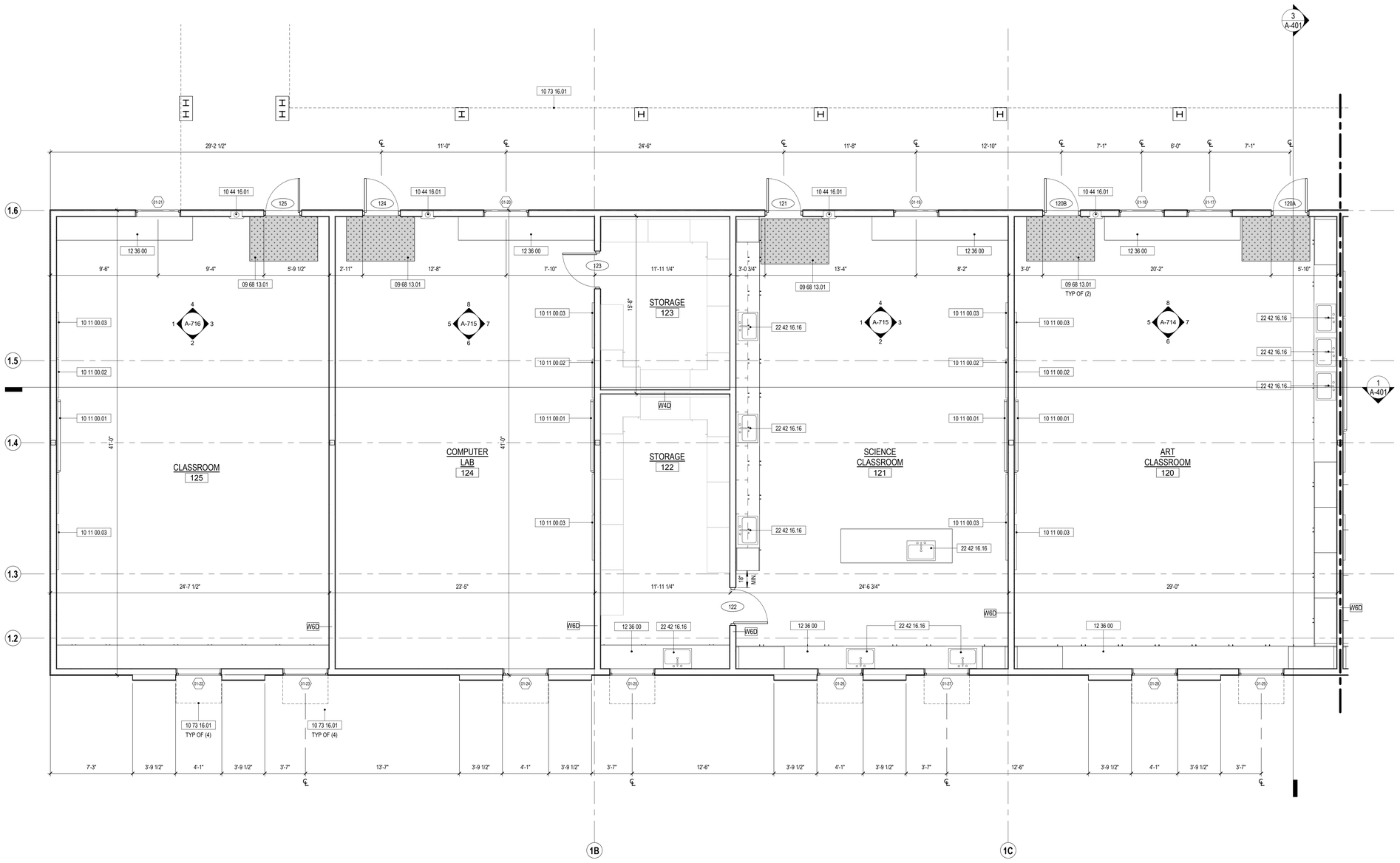

ENLARGED LEGEND

MATCHLINE

GENERAL NOTES

1. SEE FLOOR PLANS FOR FINISH FLOOR HEIGHTS.
2. DOOR FRAMES LOCATED NEAR ADJACENT WALLS OR CASEWORK TO BE 4" FROM INSIDE CORNER, OR TO NEAREST BLOCK MODULE AT CMU WALLS, U.N.O.
3. FOR MOUNTING HEIGHTS OF TOILET ROOM ACCESSORIES, REFER TO DETAIL 11/A-801, U.N.O.
4. FOR TYPICAL WALL FRAMING DETAILS, SEE SHEET A-501
5. REFER TO "GENERAL NOTES" SECTION ON GENERAL NOTES SHEET FOR DIMENSIONING INFORMATION.
6. AT CONDITIONS WITH FLOORS SLOPED TO DRAIN, PROVIDE A FLAT SURFACE DIRECTLY UNDER ALL FLOOR MOUNTED TOILETS.
7. REFER TO TITLE SHEET TS-1 FOR SYMBOLS LEGEND NOT SHOWN ABOVE.

KEYNOTES

09 68 13.01	WALK-OFF MATS
10 11 00.01	INTERACTIVE DISPLAY TOUCHSCREEN WHITEBOARD
10 11 00.02	TOUCHSCREEN WHITEBOARD FRAME
10 11 00.03	TACKBOARD
10 44 16.01	DLDRECESSED FIRE EXTINGUISHER CABINET. MOUNTED PER DETAIL 7/A-822
10 73 16.01	LINE OF CANOPY ABOVE, TYP.
12 36 00	COUNTERTOPS
22 42 16.16	COMMERCIAL SINKS

NORTH

BUILDING 100 ENLARGED CLASSROOM FLOOR PLAN SCALE: 1/4" = 1'-0" (1)

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DRAWING SUBMITTAL SCHEDULE

50% CONSTRUCTION DOCUMENTS	10/10/2025
100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO: 22434-E-02

ENLARGED FLOOR PLANS - BUILDING 100 WEST

A-204

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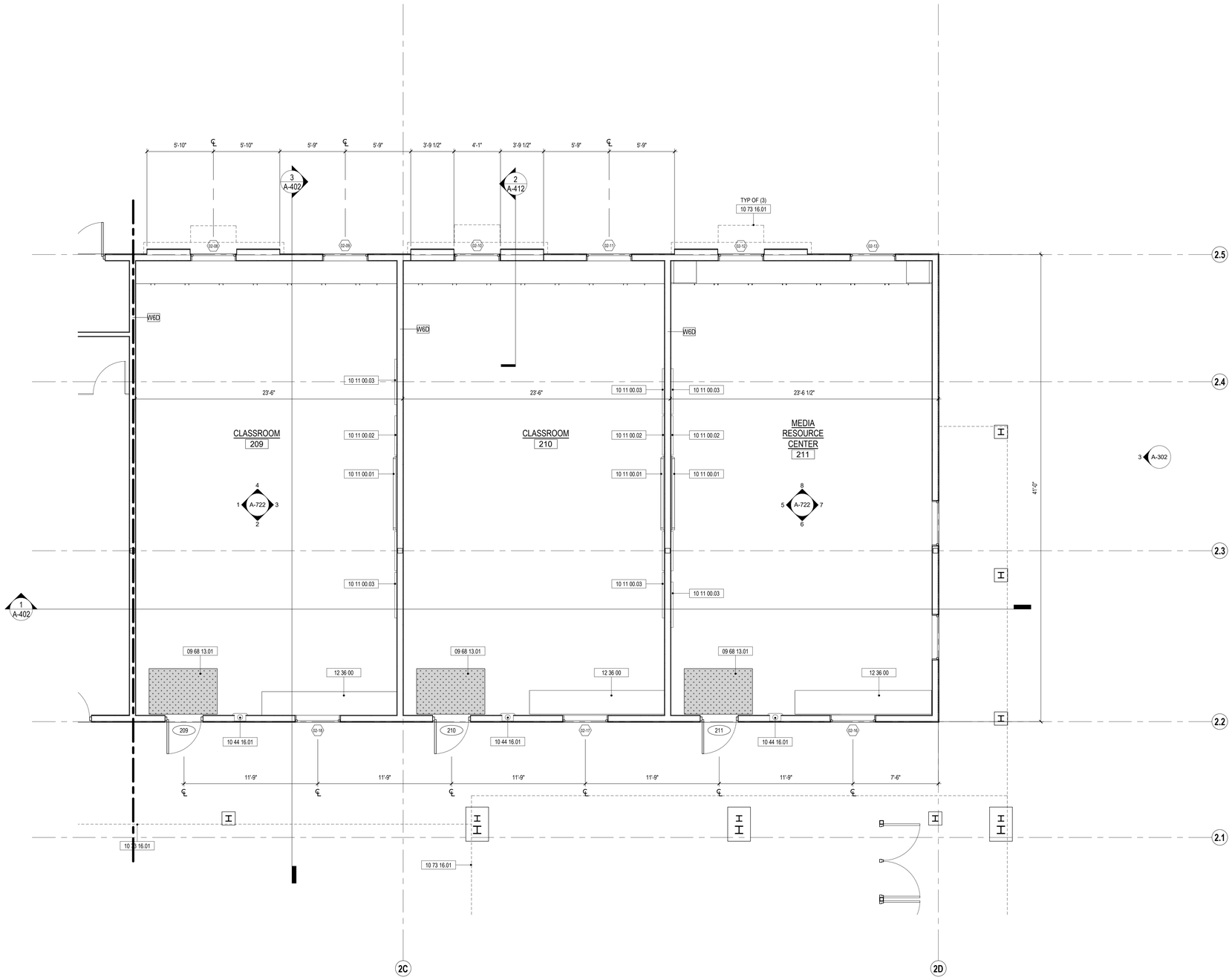

ENLARGED LEGEND

MATCHLINE

GENERAL NOTES

1. SEE FLOOR PLANS FOR FINISH FLOOR HEIGHTS.
2. DOOR FRAMES LOCATED NEAR ADJACENT WALLS OR CASEWORK TO BE 4" FROM INSIDE CORNER, OR TO NEAREST BLOCK MODULE AT CMU WALLS, U.N.O.
3. FOR MOUNTING HEIGHTS OF TOILET ROOM ACCESSORIES, REFER TO DETAIL 11/A-801, U.N.O.
4. FOR TYPICAL WALL FRAMING DETAILS, SEE SHEET A-501
5. REFER TO "GENERAL NOTES" SECTION ON GENERAL NOTES SHEET FOR DIMENSIONING INFORMATION.
6. AT CONDITIONS WITH FLOORS SLOPED TO DRAIN, PROVIDE A FLAT SURFACE DIRECTLY UNDER ALL FLOOR MOUNTED TOILETS.
7. REFER TO TITLE SHEET TS-1 FOR SYMBOLS LEGEND NOT SHOWN ABOVE.

KEYNOTES

09 68 13.01	WALK-OFF MATS
10 11 00.01	INTERACTIVE DISPLAY TOUCHSCREEN WHITEBOARD
10 11 00.02	TOUCHSCREEN WHITEBOARD FRAME
10 11 00.03	TACKBOARD
10 44 16.01	DLDRECESSED FIRE EXTINGUISHER CABINET. MOUNTED PER DETAIL 7/A-822
10 73 16.01	LINE OF CANOPY ABOVE, TYP.
12 36 00	COUNTERTOPS

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DRAWING SUBMITTAL SCHEDULE

	50% CONSTRUCTION DOCUMENTS	10/10/2025
	100% CONSTRUCTION DOCUMENTS	11/21/2025
	DWG V3	04/28/2026

PROJECT NO: 22434-E-02

ENLARGED FLOOR PLANS - BUILDING 200 EAST

A-205

NORTH

ENLARGED BUILDING 100 FLOOR PLAN WEST SCALE: 1/4" = 1'-0" (1)

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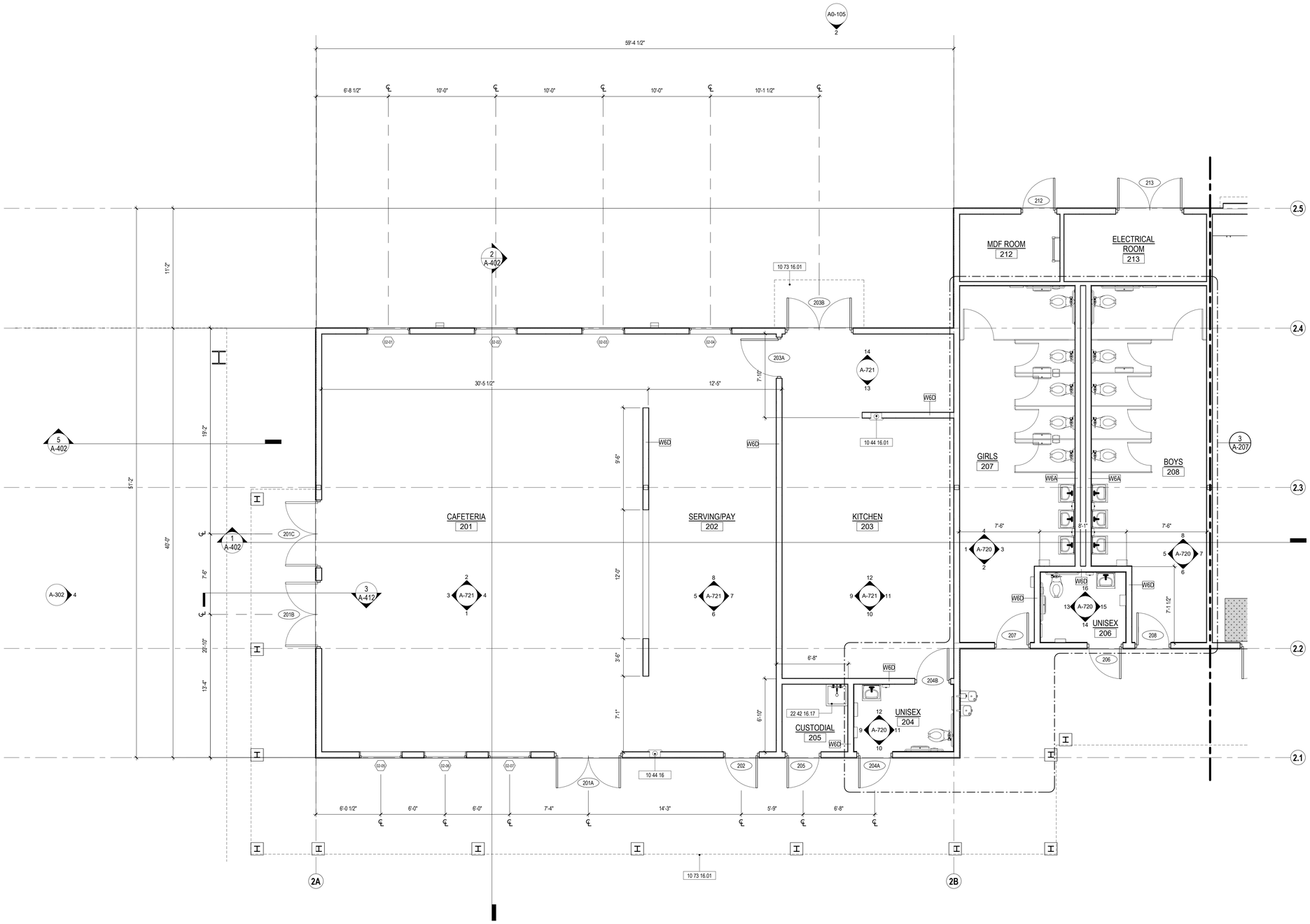

ENLARGED LEGEND

MATCHLINE

GENERAL NOTES

1. SEE FLOOR PLANS FOR FINISH FLOOR HEIGHTS.
2. DOOR FRAMES LOCATED NEAR ADJACENT WALLS OR CASEWORK TO BE 4" FROM INSIDE CORNER, OR TO NEAREST BLOCK MODULE AT CMU WALLS, U.N.O.
3. FOR MOUNTING HEIGHTS OF TOILET ROOM ACCESSORIES, REFER TO DETAIL 11/A-801, U.N.O.
4. FOR TYPICAL WALL FRAMING DETAILS, SEE SHEET A-501
5. REFER TO "GENERAL NOTES" SECTION ON GENERAL NOTES SHEET FOR DIMENSIONING INFORMATION.
6. AT CONDITIONS WITH FLOORS SLOPED TO DRAIN, PROVIDE A FLAT SURFACE DIRECTLY UNDER ALL FLOOR MOUNTED TOILETS.
7. REFER TO TITLE SHEET TS-1 FOR SYMBOLS LEGEND NOT SHOWN ABOVE.

KEYNOTES

10 44 16	FIRE EXTINGUISHERS
10 44 16.01	DLDRECESSED FIRE EXTINGUISHER CABINET. MOUNTED PER DETAIL 7/A-822
10 73 16.01	LINE OF CANOPY ABOVE, TYP.
22 42 16.17	MOP SINK

ENLARGED BUILDING 200 FLOOR PLAN WEST SCALE: 1/4" = 1'-0" (1)

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DRAWING SUBMITTAL SCHEDULE

50% CONSTRUCTION DOCUMENTS	10/10/2025
100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO:22434-E-02

ENLARGED FLOOR PLANS - BUILDING 200 WEST

A-206

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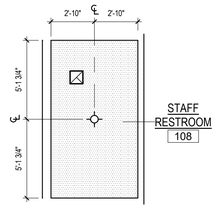
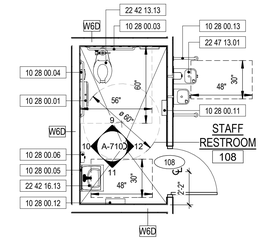
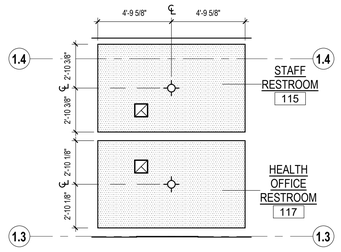


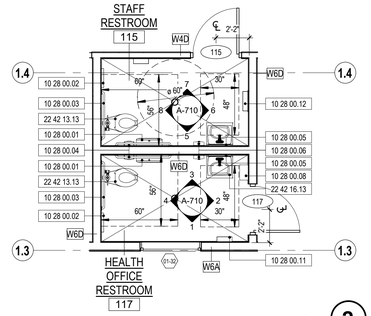
BUIILDING 100 - ENLARGED RESTROOM RCP SCALE: 1/4" = 1'-0" (4)



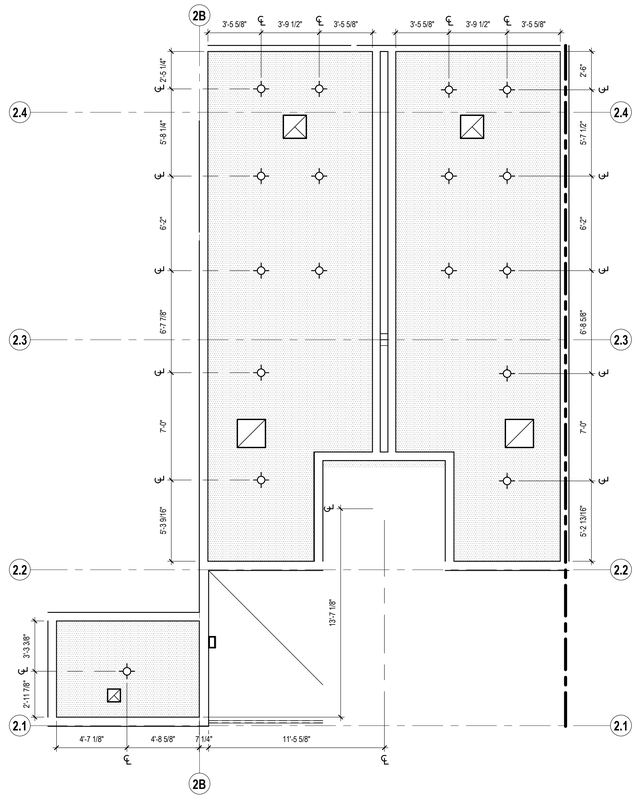
BUILDING 100 - ENLARGED RESTROOM SCALE: 1/4" = 1'-0" (1)



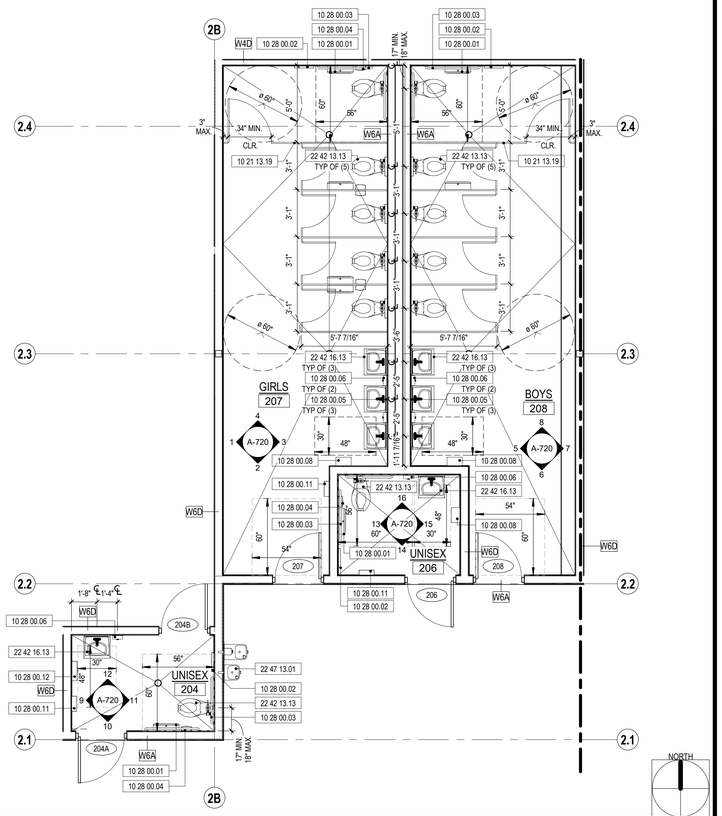
BUIILDING 100 - ENLARGED RESTROOMS RCP SCALE: 1/4" = 1'-0" (5)



BUILDING 100 - ENLARGED RESTROOMS SCALE: 1/4" = 1'-0" (2)



BUIILDING 100 - ENLARGED RESTROOMS RCP SCALE: 1/4" = 1'-0" (6)



BUILDING 100 - ENLARGED RESTROOMS SCALE: 1/4" = 1'-0" (3)

WALL LEGEND

- NEW WALL - REFER TO WALL TYPES
- RECESSED FIRE EXTINGUISHER CABINET
- MATCHLINE

GENERAL NOTES

1. FIRST FLOOR FINISH FLOOR FOR BUILDING 1 IS 0'-0" = 356.10'
   FIRST FLOOR FINISH FLOOR FOR BUILDING 2 IS -0'-4 3/4" = 355.70'
2. DOOR FRAMES LOCATED NEAR ADJACENT WALLS OR CASEWORK TO BE 4" FROM INSIDE CORNER, OR TO NEAREST BLOCK MODULE AT CMU WALLS, U.N.O.
3. COORDINATE AND CONFIRM EXACT LOCATIONS OF ALL FLOOR MOUNTED OUTLETS PRIOR TO CONCRETE PLACEMENT, SEE ELECTRICAL
4. FOR TYPICAL WALL FRAMING DETAILS, SEE SHEET A-501
5. REFER TO "GENERAL NOTES" SECTION ON GENERAL NOTES SHEET FOR DIMENSIONING INFORMATION.
6. AT CONDITIONS WITH FLOORS SLOPED TO DRAIN, PROVIDE A FLAT SURFACE DIRECTLY UNDER ALL FLOOR MOUNTED TOILETS.
7. REFER TO TITLE SHEET TS-1 FOR SYMBOLS LEGEND NOT SHOWN ABOVE.

KEYNOTES

10 21 13.19	PLASTIC TOILET COMPARTMENTS
10 28 00.01	TOILET TISSUE DISPENSER
10 28 00.02	SEAT COVER DISPENSER
10 28 00.03	GRAB BARS; REFER TO DETAIL 11/A-801 FOR INSTALLATION DIMENSIONS NOT SHOWN ON PLANS OR ELEVATIONS
10 28 00.04	SANITARY NAPKIN DISPOSAL UNIT; SURFACE-MOUNTED
10 28 00.05	18X30 MIRROR
10 28 00.06	SOAP DISPENSER
10 28 00.08	WARM-AIR HAND DRYER, 4" MAX PROJECTION; REFER TO ELECTRICAL FOR POWER REQUIREMENTS
10 28 00.11	FEMININE PRODUCT DISPENSER
10 28 00.12	PAPER TOWEL DISPENSER AND WASTE RECEPTACLE
10 28 00.13	DRINKING FOUNTAIN PROTRUSION PROTECTION GRAB BAR
22 42 13.13	FLOOR-MOUNTED COMMERCIAL WATER CLOSET
22 42 16.13	WALL-HUNG COMMERCIAL LAVATORY; REFER TO PLUMBING; PROVIDE UNDER-LAVATORY GUARD AT EXPOSED PIPES. CLEARANCES PER 17/A-801.
22 47 13.01	HILOW HYDRATION STATION WITH BOTTLE FILLER; REFER TO PLUMBING

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DRAWING SUBMITTAL SCHEDULE

100% DD SET	07/08/2025
50% CONSTRUCTION DOCUMENTS	10/10/2025
100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO: 22434-E-02

ENLARGED FLOOR PLANS - RESTROOMS

A-207

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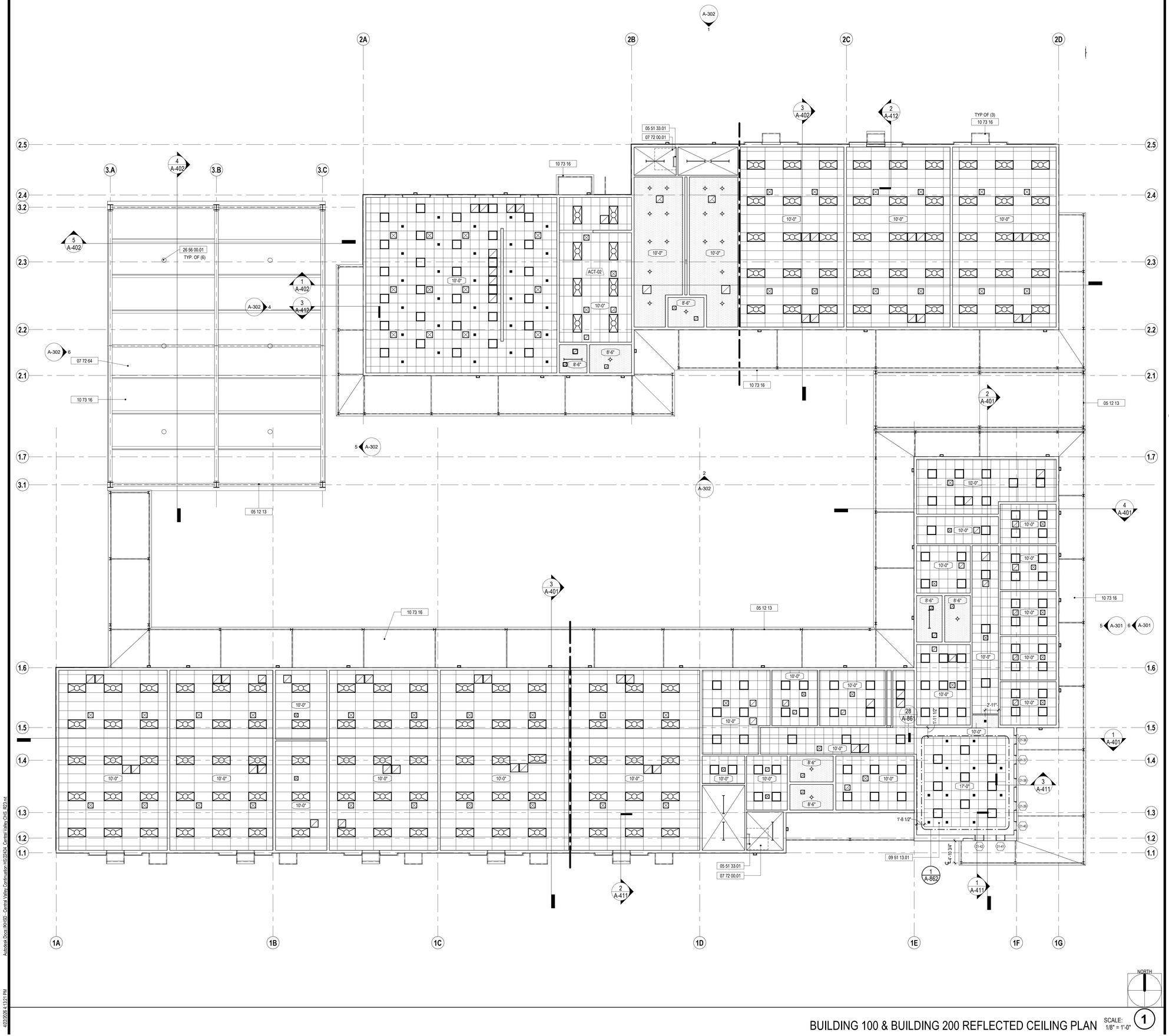

BUILDING 100 & BUILDING 200 REFLECTED CEILING PLAN SCALE: 1/8" = 1'-0" (1)

LEGEND

- EXPOSED METAL DECK — REFER TO STRUCTURAL
- 2'-0" x 4'-0" SUSPENDED ACOUSTICAL GRID PANELS — REFER TO FINISH SCHEDULE
- GYPSUM BOARD — REFER TO FINISH SCHEDULE FOR PAINT
- CEMENT PLASTER
- HARDIE ARTISAN SIDING
- OPEN TO ABOVE
- 1' - 0" — HEIGHT OF CEILING / SOFFIT
- LIGHT FIXTURES — SEE ELECTRICAL DRAWINGS
- SUPPLY AIR DIFFUSER
- RETURN/TRANSFER AIR DIFFUSER
- EXHAUST AIR DIFFUSER
- MATCHLINE

GENERAL NOTES

1. CENTER SUSPENDED CEILING GRIDS EACH WAY WITHIN SPACE, UNLESS NOTED OTHERWISE.
2. CENTER MECHANICAL AIR GRILLES BETWEEN LIGHTS / WALLS IN GYPSUM BOARD CEILINGS AS SHOWN.
3. CENTER LIGHT FIXTURES WITHIN SPACES UNLESS NOTED OTHERWISE.
4. EXIT LIGHTS NOT SHOWN, SEE ELECTRICAL DRAWINGS.
5. FOR ALL LOCATIONS OF N.I.C. LCD PROJECTORS, INSTALL OVERHEAD MOUNTED EQUIPMENT SUPPORT PER ELECTRICAL DRAWINGS.
6. FOR TYPICAL CEILING NOTES AND DETAILS, SEE SHEETS A-861 AND A-862.
7. FOR SMOKE AND CARBON MONOXIDE DETECTOR LOCATIONS, SEE FIRE ALARM DRAWINGS.
8. REFER TO FLOOR PLANS FOR WALL TYPES.
9. PAINT ALL EXPOSED CANOPY STRUCTURAL FRAMING AND CORRUGATED ROOFING EPT-01 PER FINISH SCHEDULE.

KEYNOTES

05 12 13	ARCHITECTURALLY-EXPOSED STRUCTURAL STEEL FRAMING; TO BE PAINTED EPT-01 PER FINISH SCHEDULE
05 51 33.01	ROOF ACCESS LADDER PER DETAIL 10/A-831
07 72 00.01	NEW OSHA-COMPLIANT ROOF HATCH PER DETAIL 5/A-831
07 72 64	BIRD NETTING AT THE UNDERSIDE OF METAL SHADE STRUCTURE AND DECK. MOUNT PER MANUFACTURER.
09 51 13.01	SUSPENDED FREE-FLOAT CEILING, REFER TO DETAIL 1 / A-862
10 73 16	CANOPIES; TO BE PAINTED EPT-01 PER FINISH SCHEDULE
26 56 00.01	LIGHT FIXTURES MOUNTED TO UNDERSIDE OF STRUCTURE; SEE ELECTRICAL

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DRAWING SUBMITTAL SCHEDULE

100% DD SET	07/08/2025
50% CONSTRUCTION DOCUMENTS	10/10/2025
100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V3	04/28/2026

PROJECT NO:22434-E-02

REFLECTED CEILING PLAN

A-211

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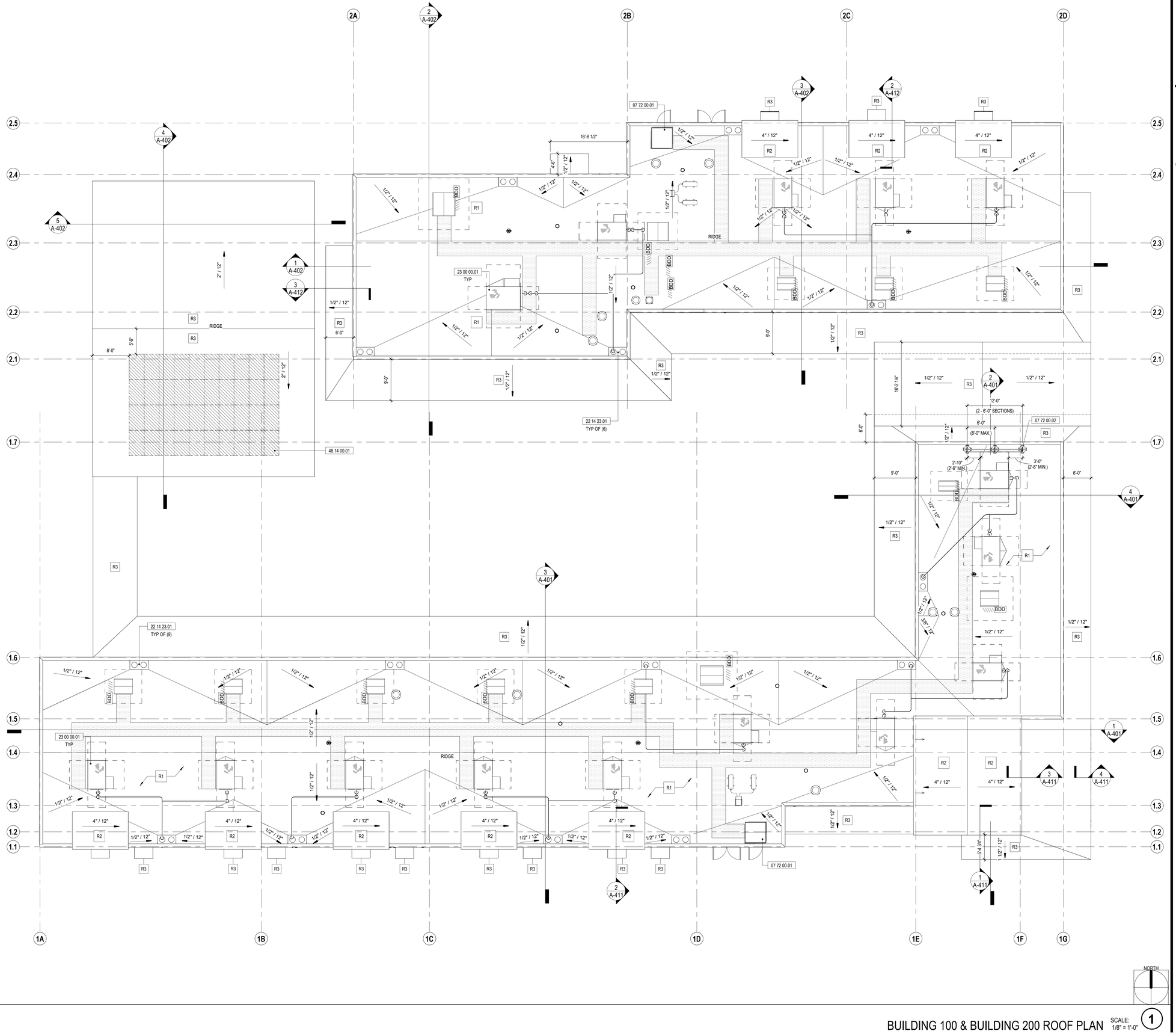

BUILDING 100 & BUILDING 200 ROOF PLAN SCALE: 1/8" = 1'-0"

LEGEND

- AREA OF WALKWAY PROTECTION PAD
- R1 — ROOF TYPE TAG - SEE ROOF TYPES SHEET A-501
- SOLAR READY ZONE

GENERAL NOTES

1. REFER TO SHEET A-501 FOR ROOF TYPES
2. FOR TYPICAL ROOF PENETRATIONS, SEE DETAIL 1 / TS-1
3. FOR TYPICAL DUCT SUPPORT, SEE DETAIL 1 / TS-1
4. FOR TYPICAL PVC THERMOPLASTIC MEMBRANE ROOFING, SEE A-831 ROOF DETAILS
5. FOR ROOF HATCH, SEE DETAIL 5 / A-831
6. FOR ROOF DRAINS, SEE DETAIL 11 / A-831
7. FOR TYPICAL MECHANICAL CURBS, SEE DETAIL 1 / TS-1

KEYNOTES

07 72 00.01	NEW OSHA-COMPLIANT ROOF HATCH PER DETAIL 5/A-831
07 72 00.02	FREESTANDING ROOF EDGE PROTECTION RAILING SYSTEM W/ RUBBER PADS AT BOTTOMS OF POST BASES, 42" MIN. HEIGHT, COMPLIANT W/ CBC 1015.6 AND CAL OSHA SUBSECTIONS 1620 AND 3210
22 14 23.01	ROOF DRAIN AND OVERFLOW DRAIN, WHERE OCCURS; REFER TO PLUMBING
23 00 00.01	NEW ROOFTOP MECHANICAL EQUIPMENT; REFER TO MECHANICAL
48 14 00.01	PROVIDE PHOTOVOLTAIC SYSTEM - SEE ELECTRICAL

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DRAWING SUBMITTAL SCHEDULE

100% DD SET	07/08/2025
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100% CONSTRUCTION DOCUMENTS	11/21/2025
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DWG V3	04/28/2026

PROJECT NO: 22434-E-02

ROOF PLAN

A-221

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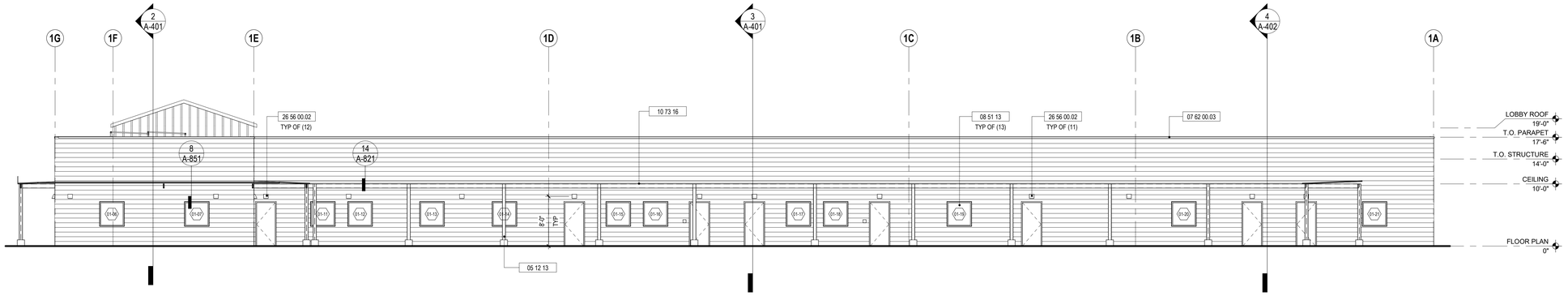
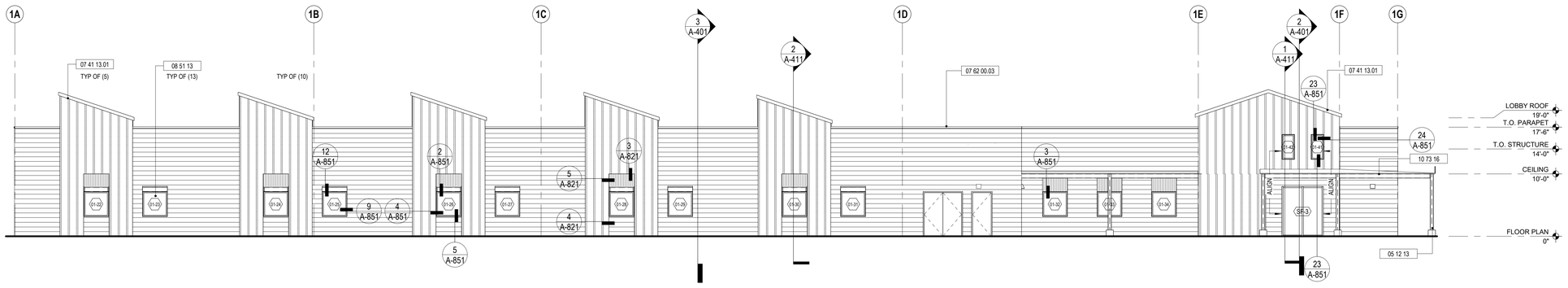
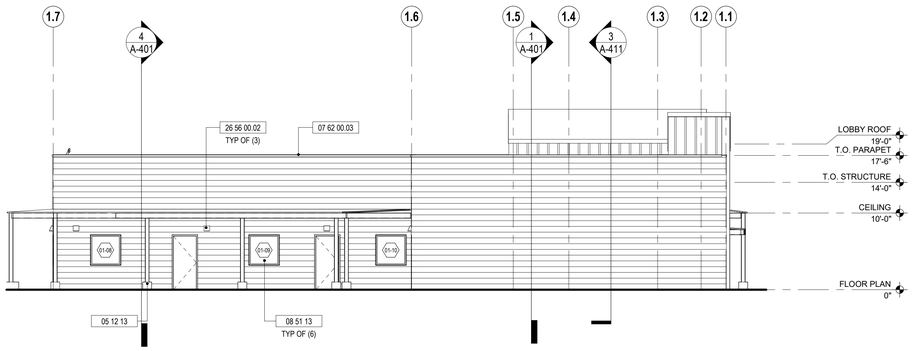


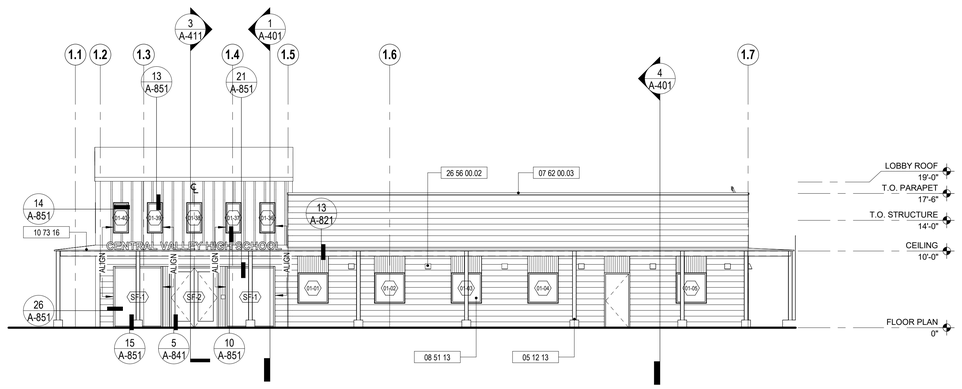
BUILDING 100 EXTERIOR ELEVATION - NORTH SCALE: 1/8" = 1'-0" (1)



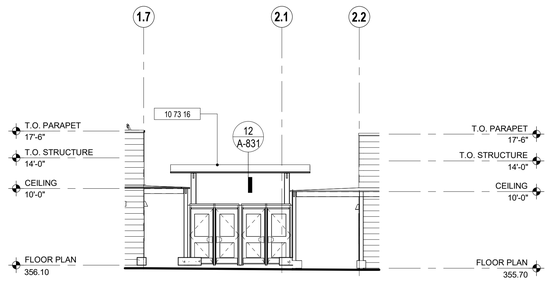
BUILDING 100 EXTERIOR ELEVATION - SOUTH SCALE: 1/8" = 1'-0" (2)



BUILDING 100 EXTERIOR ELEVATION - WEST SCALE: 1/8" = 1'-0" (4)



BUILDING 100 EXTERIOR ELEVATION - EAST SCALE: 1/8" = 1'-0" (3)



MAIN ENTRANCE EXTERIOR ELEVATION - EAST SCALE: 1/8" = 1'-0" (5)

LEGEND

- HARDIE ARTISAN SIDING - 07 46 46
- HARDIE PANEL VERTICAL SIDING - 07 46 46
- CORRUGATED METAL SIDING - 07 42 13

GENERAL NOTES

1. FIRST FLOOR FINISH FLOOR FOR BUILDING 1 IS 0'-0" = 356.10'
   FIRST FLOOR FINISH FLOOR FOR BUILDING 2 IS -0'-4 3/4" = 355.70'.
2. FOR WALL MOUNTED LIGHT FIXTURES, SEE ELECTRICAL FOR MOUNTING HEIGHT.
3. REFER TO FLOOR PLAN AND WALL TYPES SHEET A-501 FOR EXTERIOR WALL TYPE ASSEMBLIES.
4. FOR GLAZING TYPES, REFER TO DOOR AND WINDOW SCHEDULE SHEET
5. PAINT ALL EXPOSED CANOPY STRUCTURAL FRAMING AND CORRUGATED ROOFING EPT-01 PER FINISH SCHEDULE.

KEYNOTES

05 12 13	ARCHITECTURALLY-EXPOSED STRUCTURAL STEEL FRAMING; TO BE PAINTED EPT-01 PER FINISH SCHEDULE
07 41 13.01	NEW STANDING SEAM METAL ROOF AT STEEP SLOPED ROOFS.
07 62 00.03	PARAPET COPING; COLOR TO MATCH SIDING
08 51 13	ALUMINUM WINDOWS
10 73 16	CANOPIES; TO BE PAINTED EPT-01 PER FINISH SCHEDULE
26 56 00.02	WALL PACK; SEE ELECTRICAL

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PROJECT NO: 22434-E-02

EXTERIOR ELEVATIONS - BUILDING 100

A-301

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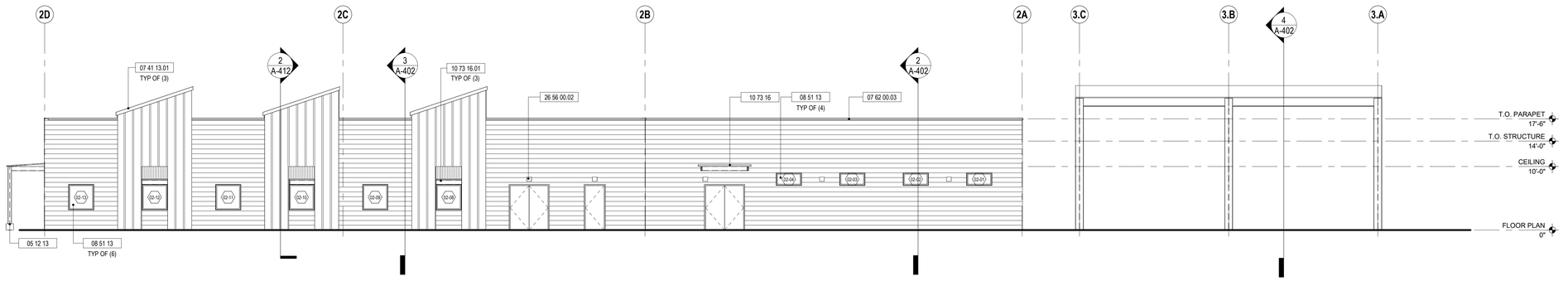
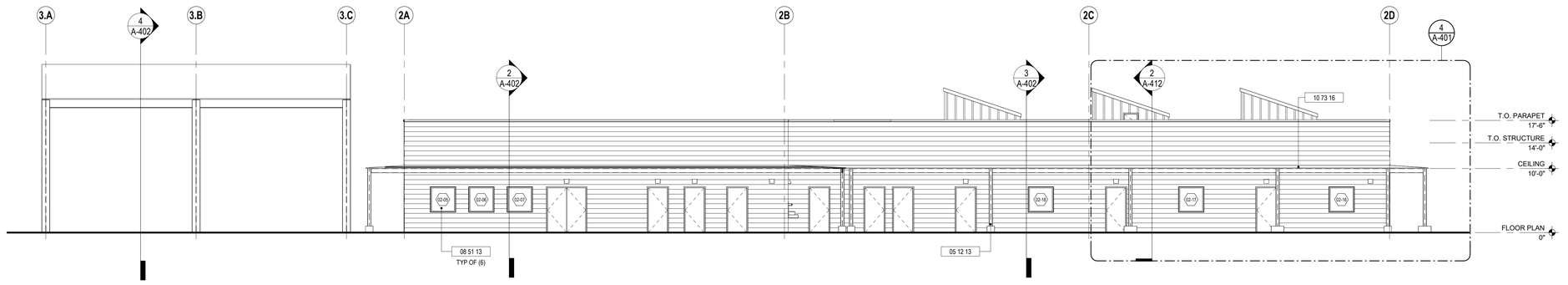
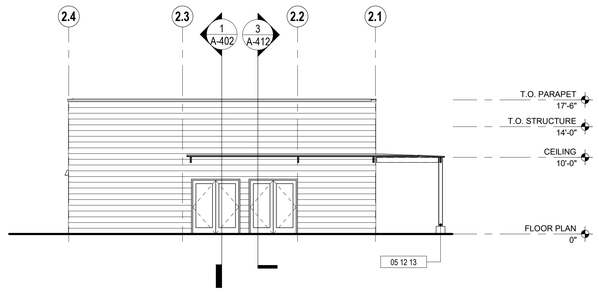


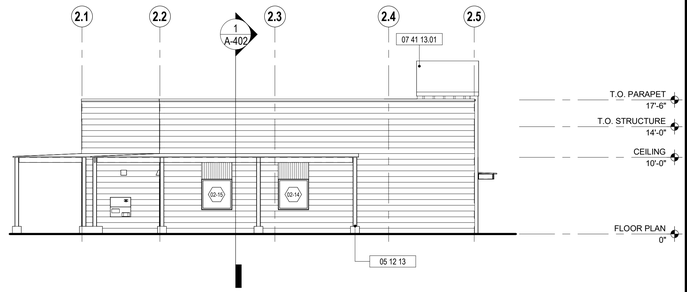
BUILDING 200 & BUILDING 300 EXTERIOR ELEVATION - NORTH SCALE: 1/8" = 1'-0" (1)



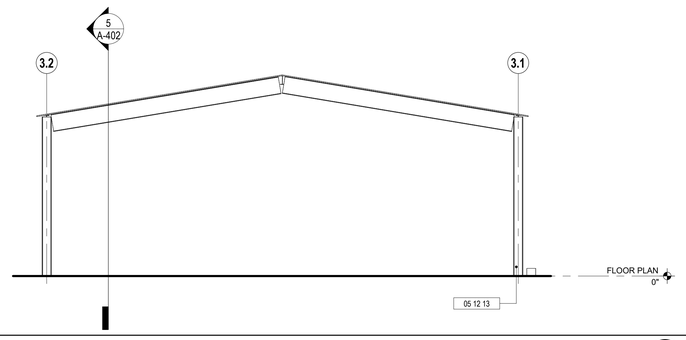
BUILDING 200 & BUILDING 300 EXTERIOR ELEVATION - SOUTH SCALE: 1/8" = 1'-0" (2)



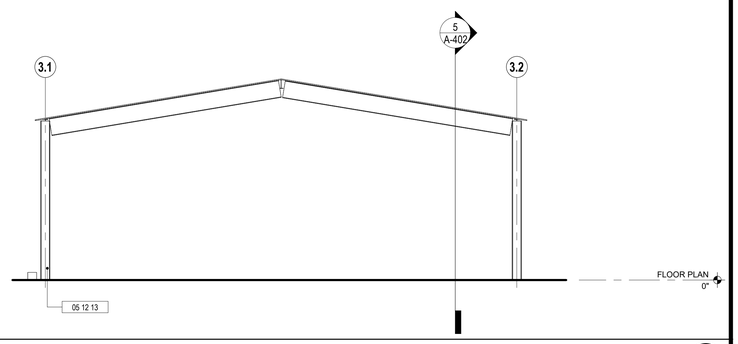
BUILDING 200 EXTERIOR ELEVATION - WEST SCALE: 1/8" = 1'-0" (4)



BUILDING 200 EXTERIOR ELEVATION - EAST SCALE: 1/8" = 1'-0" (3)



BUILDING 300 EXTERIOR ELEVATION - WEST SCALE: 1/8" = 1'-0" (6)



BUILDING 300 EXTERIOR ELEVATION - EAST SCALE: 1/8" = 1'-0" (5)

LEGEND

- HARDIE ARTISAN SIDING - 07 46 46
- HARDIE PANEL VERTICAL SIDING - 07 46 46
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GENERAL NOTES

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KEYNOTES

05 12 13	ARCHITECTURALLY-EXPOSED STRUCTURAL STEEL FRAMING; TO BE PAINTED EPT-01 PER FINISH SCHEDULE
07 41 13.01	NEW STANDING SEAM METAL ROOF AT STEEP SLOPED ROOFS.
07 62 00.03	PARAPET COPING; COLOR TO MATCH SIDING
08 51 13	ALUMINUM WINDOWS
10 73 16	CANOPIES; TO BE PAINTED EPT-01 PER FINISH SCHEDULE
10 73 16.01	LINE OF CANOPY ABOVE, TYP.
26 56 00.02	WALL PACK; SEE ELECTRICAL

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	100% CONSTRUCTION DOCUMENTS	11/21/2025
	DWG V3	04/28/2026

PROJECT NO:22434-E-02

EXTERIOR ELEVATIONS - BUILDING 200 & BUILDING 300

A-302

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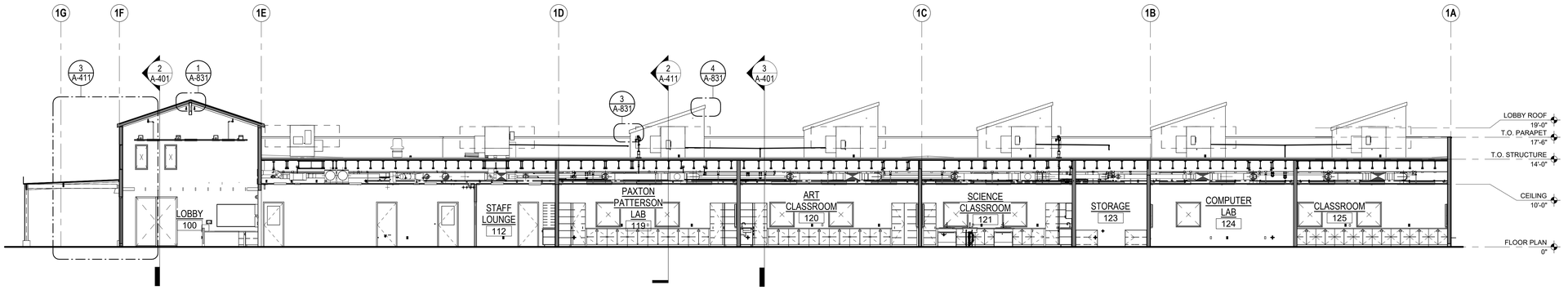
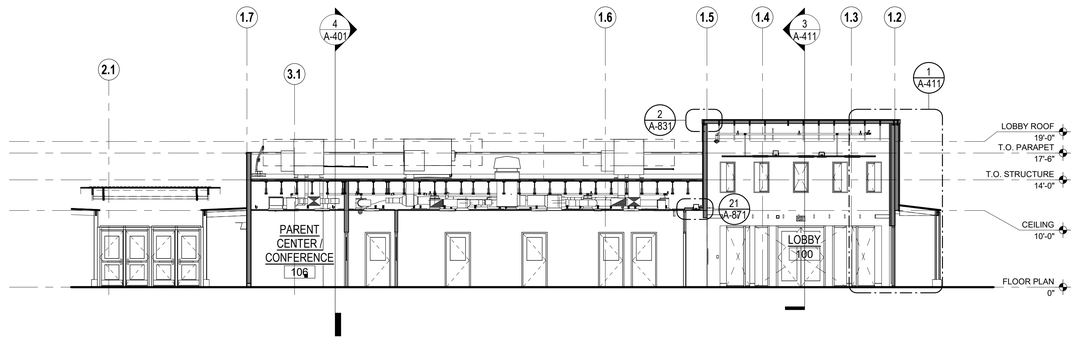
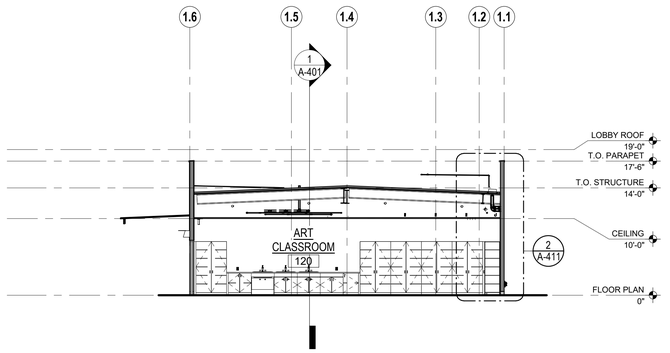


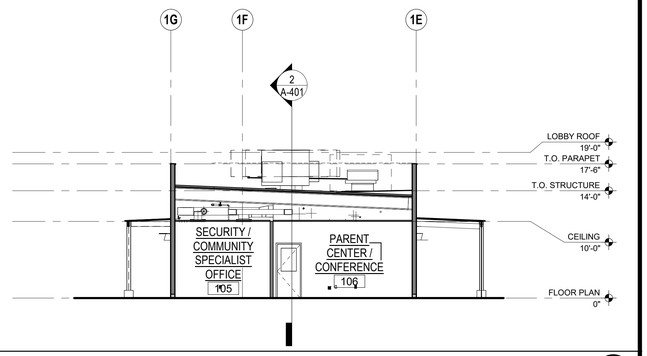
BUILDING 100 E/W SECTION SCALE: 1/8" = 1'-0" (1)



BUILDING 100 N/S SECTION SCALE: 1/8" = 1'-0" (2)



BUILDING 100 N/S SECTION 2 SCALE: 1/8" = 1'-0" (3)



BUILDING 100 E/W SECTION 2 SCALE: 1/8" = 1'-0" (4)

GENERAL NOTES

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KEYNOTES

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	DWG V3	04/28/2026

PROJECT NO: 22434-E-02

BUILDING SECTIONS - BUILDING 100

A-401

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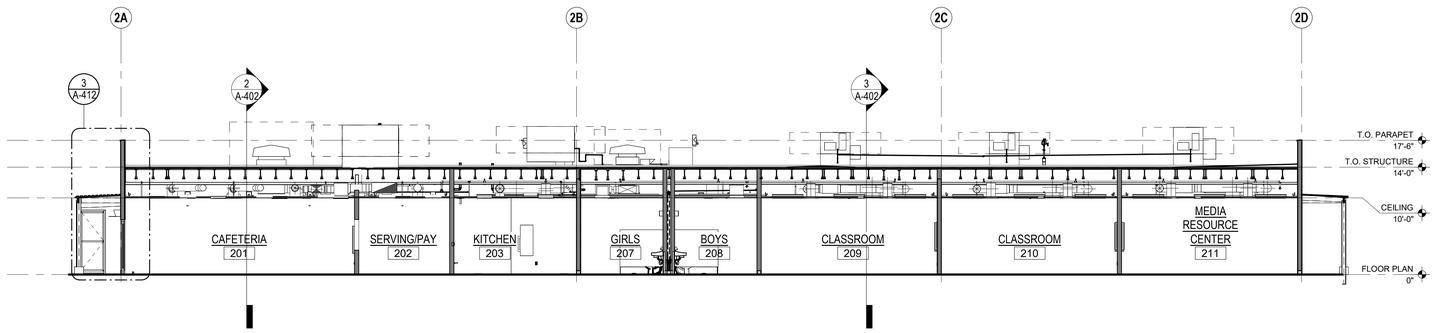
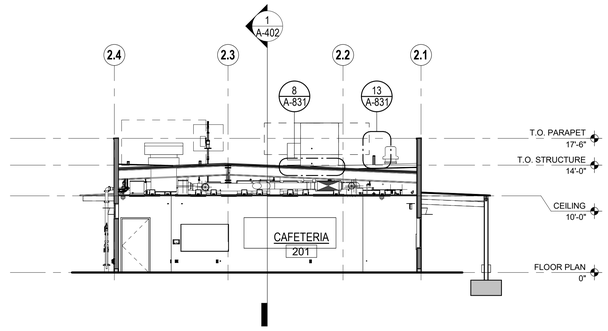


BUILDING 200 E/W SECTION SCALE: 1/8" = 1'-0" (1)



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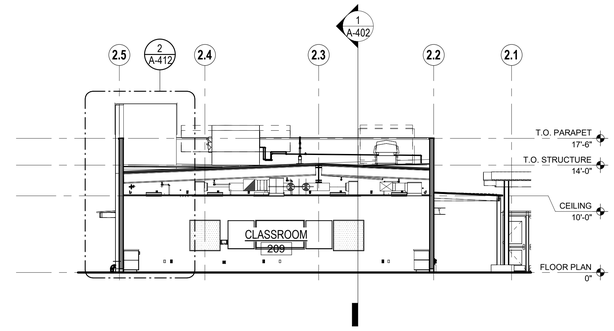
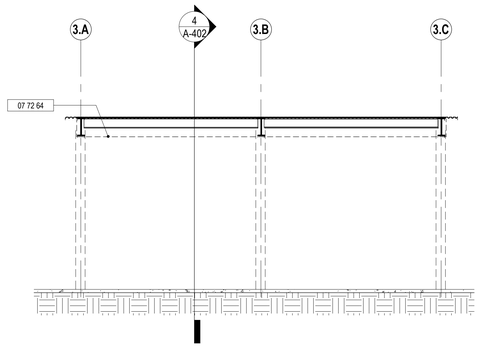
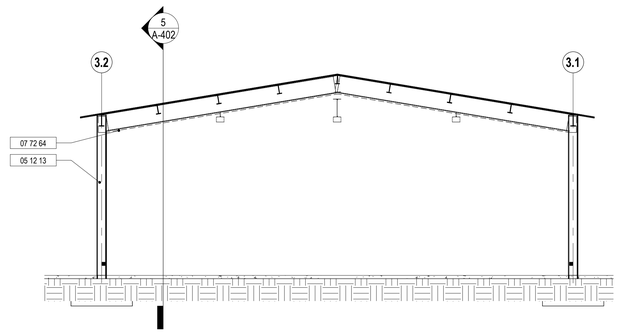


BUILDING 200 N/S SECTION SCALE: 1/8" = 1'-0" (3)



BLDG 300 E/W SECTION SCALE: 1/8" = 1'-0" (5)



BLDG 300 N/S SECTION SCALE: 1/8" = 1'-0" (4)

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4. PAINT ALL EXPOSED CANOPY STRUCTURAL FRAMING AND CORRUGATED ROOFING EPT-01 PER FINISH SCHEDULE.

KEYNOTES

05 12 13	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL FRAMING; TO BE PAINTED EPT-01 PER FINISH SCHEDULE
07 72 64	BIRD NETTING AT THE UNDERSIDE OF METAL SHADE STRUCTURE AND DECK. MOUNT PER MANUFACTURER.

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	DWG V3	04/28/2026

PROJECT NO:22434-E-02

BUILDING SECTIONS - BUILDING 200 & BUILDING 300

A-402

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GENERAL NOTES

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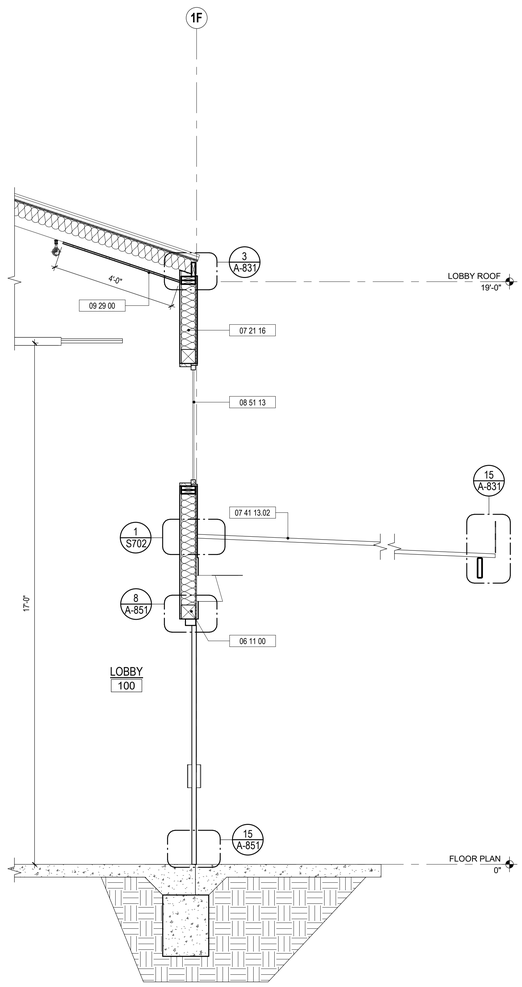
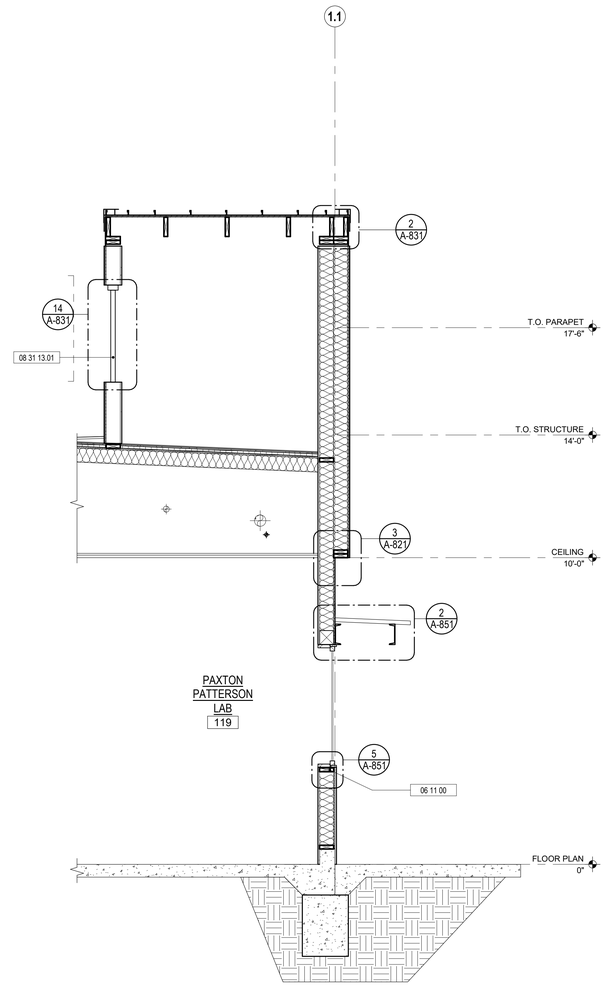
KEYNOTES

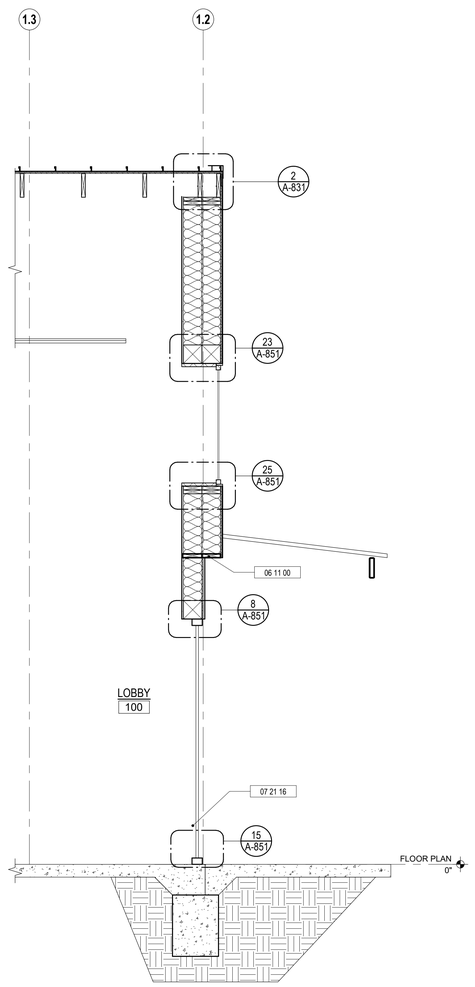
06 11 00	WOOD FRAMING
07 21 16	BLANKET INSULATION
07 41 13.02	EXPOSED CORRUGATED METAL ROOF
08 31 13.01	PROVIDE (1) 24X36 EXTERIOR LOUVERED ACCESS DOOR AT EACH ENCLOSED ATTIC SPACE, TYP.
08 51 13	ALUMINUM WINDOWS
09 29 00	GYPSUM BOARD



WALL SECTION - LOBBY @ ENTRY SCALE: 1/2" = 1'-0" (3)



WALL SECTION - BUMP-OUT @ CLASSROOM SCALE: 1/2" = 1'-0" (2)



WALL SECTION - LOBBY SCALE: 1/2" = 1'-0" (1)

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No. C-34108
REN. AUG 31, 27
STATE OF CALIFORNIA

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KERN HIGH SCHOOL DISTRICT
5801 SUNDALE AVE.
BAKERSFIELD, CA 93309

CENTRAL VALLEY HIGH SCHOOL
CONTINUATION HIGH SCHOOL CAMPUS
526 MANNEL AVENUE
SHAFTER, CA 93263

DRAWING SUBMITTAL SCHEDULE

100% DD SET	07/08/2025
50% CONSTRUCTION DOCUMENTS	10/10/2025
100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V3	04/28/2026

PROJECT NO: 22434-E-02

WALL SECTIONS - BUILDING 100

A-411

Autodesk Docs://KHSD - Central Valley Continuation HS/22434 - Central Valley CHS #25.rvt
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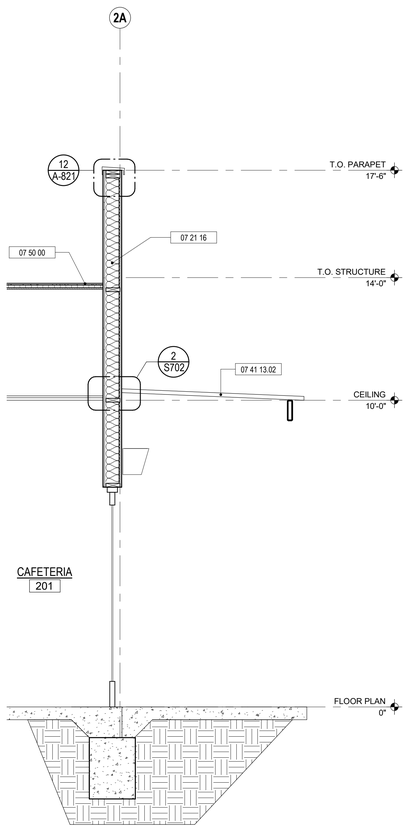
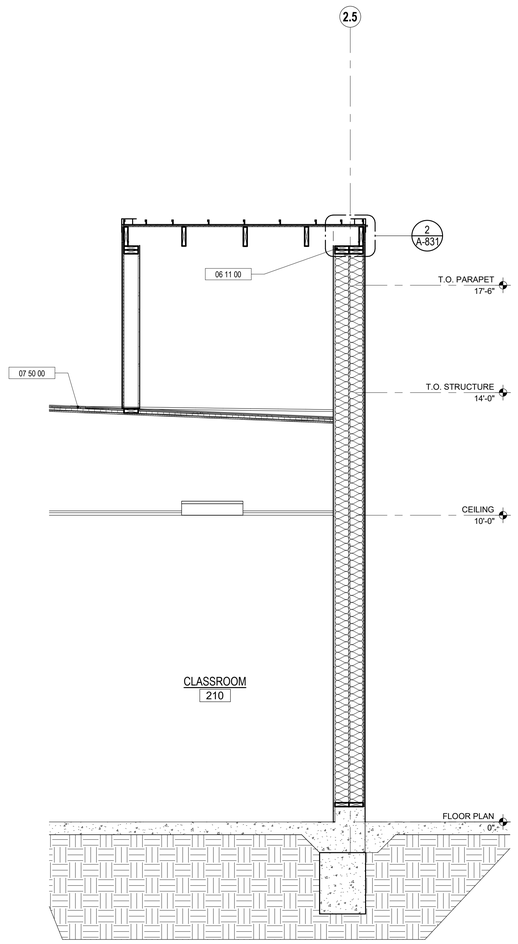


WALL SECTION - CAFETERIA SCALE: 1/2" = 1'-0" 3



WALL SECTION - BUMP OUT SCALE: 1/2" = 1'-0" 2

GENERAL NOTES

1. FIRST FLOOR FINISH FLOOR FOR BUILDING 1 IS 0'-0" = 356.10'
   FIRST FLOOR FINISH FLOOR FOR BUILDING 2 IS -0'-4 3/4" = 355.70'
2. FOR WALL MOUNTED LIGHT FIXTURES, SEE ELECTRICAL FOR MOUNTING HEIGHT.
3. REFER TO FLOOR PLAN AND WALL TYPES SHEET A-501 FOR WALL TYPE ASSEMBLIES.
4. PAINT ALL EXPOSED CANOPY STRUCTURAL FRAMING AND CORRUGATED ROOFING EPT-01 PER FINISH SCHEDULE.

KEYNOTES

06 11 00	WOOD FRAMING
07 21 16	BLANKET INSULATION
07 41 13.02	EXPOSED CORRUGATED METAL ROOF
07 50 00	MEMBRANE ROOFING

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125726 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/28/2026

SGPA
ARCHITECTURE AND PLANNING
3111 CAMINO DEL RIO NORTH,
STUDIO 500
SAN DIEGO, CA 92108
619.297.0131
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LICENSED ARCHITECT
STEPHANIE B. AMES
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DRAWING SUBMITTAL SCHEDULE

100% DD SET	07/08/2025
50% CONSTRUCTION DOCUMENTS	10/10/2025
100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO: 22434-E-02

WALL SECTIONS - BUILDING 200

A-412

Autodesk Docs://KHSD - Central Valley Continuation HS/22434 Central Valley CVS_R23.rvt
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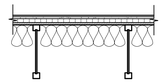
ROOF TYPES

R1

SCALE:	3/4" = 1'-0"
FIRE RATING:	
ASSEMBLY REF:	
SOUND RATING:	
COMMENTS:	CLASS A



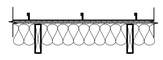
DESCRIPTION

PVC THERMOPLASTIC MEMBRANE ROOFING

1. PVC ROOFING MEMBRANE
2. SUBSTRATE BOARD
3. RIGID INSULATION
4. PLYWOOD PER STRUCTURAL
5. 14" I-JOISTS @ 24" O.C. PER STRUCTURAL WITH BATT INSULATION

R2

SCALE:	3/4" = 1'-0"
FIRE RATING:	
ASSEMBLY REF:	
SOUND RATING:	
COMMENTS:	ANCHOR PER DETAIL 3 / A-831



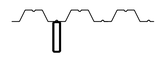
DESCRIPTION

STANDING SEAM METAL ROOFING PANEL

1. STANDING SEAM METAL ROOF PANEL. METAL SALES VERTICAL SEAM PANEL - ICC ESR-2385.
2. ROOFING UNDERLAYMENT
3. PLYWOOD SHEATHING PER STRUCTURAL
4. 2X8 WOOD RAFTERS @ 24" O.C. PER STRUCTURAL WITH BATT INSULATION

R3

SCALE:	3/4" = 1'-0"
FIRE RATING:	
ASSEMBLY REF:	
SOUND RATING:	
COMMENTS:	



DESCRIPTION

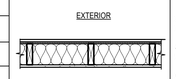
STRUCTURAL METAL ROOF DECK

1. STRUCTURAL METAL ROOF DECK
2. HSS 8X2X1/4 PER STRUCTURAL

WALL TYPES

W#A

SCALE:	3/4" = 1'-0"
FIRE RATING:	NONE
TESTING NO.:	
SOUND RATING:	
TESTING NO.:	
BOTTOM OF WALL DETAIL:	
HEAD OF WALL DETAIL:	
COMMENTS:	ANCHOR PER DETAIL 25 / A-821



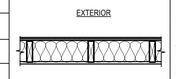
DESCRIPTION

2X6 EXTERIOR FIBER PLANK SIDING WALL

1. 5/8" FIBER-REINFORCED CEMENT BOARD PLANK. HARDIE ARTISAN LAP SIDING - ICC ESR-2290.
2. WEATHER BARRIER MEMBRANE
3. PLYWOOD SHEATHING PER STRUCTURAL DRAWINGS
4. 2X6 WOOD STUD WITH BATT INSULATION
5. (PLYWOOD SHEATHING WHERE OCCURS PER STRUCTURAL DRAWINGS)
6. 5/8" GYPSUM BOARD

W#B

SCALE:	3/4" = 1'-0"
FIRE RATING:	NONE
TESTING NO.:	
SOUND RATING:	
TESTING NO.:	
BOTTOM OF WALL DETAIL:	
HEAD OF WALL DETAIL:	
COMMENTS:	ANCHOR PER DETAIL 30 / A-821



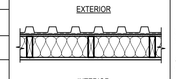
DESCRIPTION

2X EXTERIOR FIBER PANEL SIDING WALL

1. 5/16" FIBER-REINFORCED CEMENT BOARD PANEL. HARDIE PANEL VERTICAL SIDING - ICC ESR-1844.
2. WEATHER BARRIER MEMBRANE
3. PLYWOOD SHEATHING PER STRUCTURAL DRAWINGS
4. 2X WOOD STUD WITH BATT INSULATION
5. (PLYWOOD SHEATHING WHERE OCCURS PER STRUCTURAL DRAWINGS)
6. 5/8" GYPSUM BOARD

W#C

SCALE:	3/4" = 1'-0"
FIRE RATING:	NONE
TESTING NO.:	
SOUND RATING:	
TESTING NO.:	
BOTTOM OF WALL DETAIL:	
HEAD OF WALL DETAIL:	
COMMENTS:	ANCHOR PER DETAIL 15 / A-821



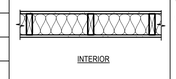
DESCRIPTION

2X EXTERIOR METAL DECK SIDING WALL

1. METAL DECK SIDING. METAL SALES EMPIRE SERIES EM1-1653 CF WALL PANEL - ICC ESR-4633. REFER TO V2 CALCS PACKAGE PAGE 58 FOR METAL SIDING ATTACHMENTS.
2. WEATHER BARRIER MEMBRANE
3. PLYWOOD SHEATHING PER STRUCTURAL DRAWINGS
4. 2X WOOD STUD WITH BATT INSULATION
5. (PLYWOOD SHEATHING WHERE OCCURS PER STRUCTURAL DRAWINGS)
6. 5/8" GYPSUM BOARD

W#D

SCALE:	3/4" = 1'-0"
FIRE RATING:	NONE
TESTING NO.:	
SOUND RATING:	
TESTING NO.:	
BOTTOM OF WALL DETAIL:	
HEAD OF WALL DETAIL:	
COMMENTS:	



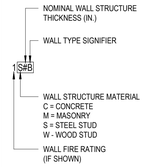
DESCRIPTION

WOOD STUD PARTITION

1. 5/8" TYPE 'X' GYPSUM BOARD
2. (PLYWOOD SHEATHING WHERE OCCURS PER STRUCTURAL DRAWINGS)
3. 2X WOOD STUD WITH BATT INSULATION
4. (PLYWOOD SHEATHING WHERE OCCURS PER STRUCTURAL DRAWINGS)
5. 5/8" GYPSUM BOARD

GENERAL NOTES

WALL TAG



WALL GENERAL NOTES:

1. AT INFILL LOCATIONS, THE CONTRACTOR SHALL VERIFY DEPTH OF NEW WALL MATCHES DEPTH OF EXISTING WALL. U.N.O.
2. T.O.W. AND B.O.W. DETAILS ARE TYPICAL UNLESS NOTED OTHERWISE ON PLANS.

WALL COMMENTS:

1. ASTERISK (*) SHOWN ON WALL TAG IN PLAN SIGNIFIES OMIT GYPSUM WALL BOARD AT CONCEALED SIDE (FURRED WALLS).
2. XX

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DIV. OF THE STATE ARCHITECT
APP: 03-125726 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 04/28/2026

SGPA
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SAN DIEGO, CA 92108
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LICENSED ARCHITECT
SHERMANE B. MAU
NO. C34108
REN. AUG 31,27
STATE OF CALIFORNIA

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	50% CONSTRUCTION DOCUMENTS	10/10/2025
	100% CONSTRUCTION DOCUMENTS	11/21/2025
	DWG V3	04/28/2026

PROJECT NO: 22434-E-02

WALL AND ROOF TYPES

A-501

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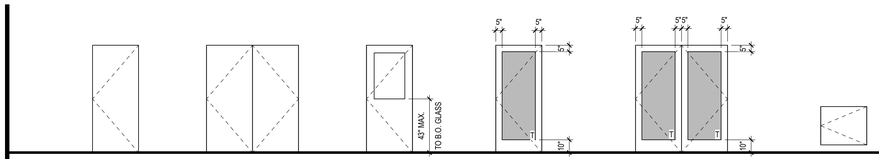
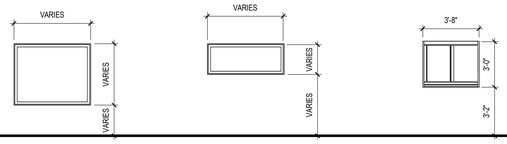


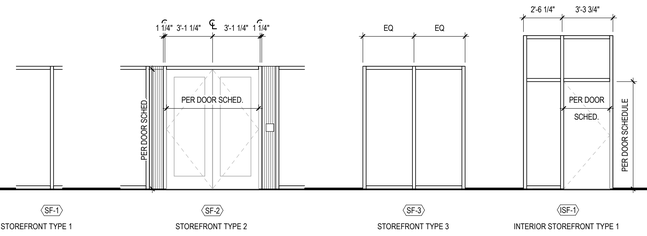
A1 SINGLE FLUSH | A2 DOUBLE FLUSH | D1 SINGLE VISION HALF PANEL | E1 SINGLE VISION FULL PANEL | E2 DOUBLE VISION FULL PANEL | L1 SINGLE SALOON SWING

DOOR TYPES



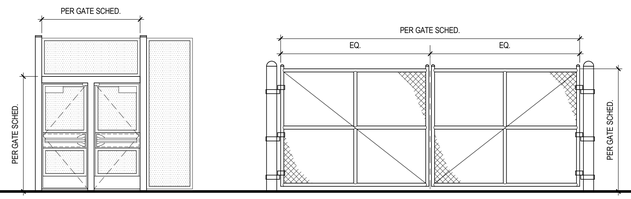
1 FIXED | 2 CLERESTORY | 3 INTERIOR SERVICE SLIDER

WINDOW TYPES



SF-1 STOREFRONT TYPE 1 | SF-2 STOREFRONT TYPE 2 | SF-3 STOREFRONT TYPE 3 | ISF-1 INTERIOR STOREFRONT TYPE 1

STOREFRONT TYPES



1 DOUBLE ORNAMENTAL GATE | 2 DOUBLE CHAIN LINK VEHICULAR GATE | 3 SINGLE CHAIN LINK ACCESSIBLE GATE

4 SLIDING CHAIN LINK GATE | 5 DOUBLE CHAIN LINK MAINTENANCE GATE

6 VEHICULAR GATE

GATE TYPES

DOOR SCHEDULE - BUILDING 100

NO.	SIZE WIDTH	SIZE HEIGHT	SIZE THICK.	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	DOOR CORE	DOOR GLAZING	FRAME MATERIAL	FRAME FINISH	RATING	PANIC HARDWARE	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	REMARKS
100A	6'-0"	7'-9 1/2"	1 3/4"	E2												
100B	3'-0"	7'-0"	1 3/4"	E1												
100C	3'-0"	2'-6"	1 3/4"	L1	WD	PT-01	SC	-	HM	PT-01	-	No	4/A-841	4/A-841		
100D	3'-0"	7'-0"	1 3/4"	D1	WD	PT-01	SC	GL-2	HM	PT-01	-	No	4/A-841	4/A-841		
100E	3'-0"	7'-0"	1 3/4"	A1	HM	EPT-02	IC	-	HM	EPT-02	-	No	1/A-841	2/A-841	3/A-841	
100F	3'-0"	7'-0"	1 3/4"	A1	HM	EPT-02	IC	-	HM	EPT-02	-	No	1/A-841	2/A-841	3/A-841	
101	3'-0"	7'-0"	1 3/4"	D1	WD	PT-01	SC	GL-2	HM	PT-01	-	No	4/A-841	4/A-841		
102	3'-0"	7'-0"	1 3/4"	D1	WD	PT-01	SC	GL-2	HM	PT-01	-	No	4/A-841	4/A-841		
103	3'-0"	7'-0"	1 3/4"	D1	WD	PT-01	SC	GL-2	HM	PT-01	-	No	4/A-841	4/A-841		
104	3'-0"	7'-0"	1 3/4"	D1	WD	PT-01	SC	GL-2	HM	PT-01	-	No	4/A-841	4/A-841		
105A	3'-0"	7'-0"	1 3/4"	D1	WD	PT-01	SC	GL-2	HM	PT-01	-	No	4/A-841	4/A-841		
105B	3'-0"	7'-0"	1 3/4"	A1	HM	EPT-02	IC	-	HM	EPT-02	-	No	6/A-841	2/A-841	3/A-841	
106	3'-0"	7'-0"	1 3/4"	D1	HM	PT-01	SC	GL-2	HM	PT-01	-	No	4/A-841	4/A-841		
107	3'-0"	7'-0"	1 3/4"	D1	WD	PT-01	SC	GL-2	HM	PT-01	-	No	4/A-841	4/A-841		
108	3'-0"	7'-0"	1 3/4"	A1	WD	PT-01	SC	-	HM	PT-01	-	No	4/A-841	4/A-841		
109	3'-0"	7'-0"	1 3/4"	D1	WD	PT-01	SC	GL-2	HM	PT-01	-	No	4/A-841	4/A-841		
110	3'-0"	7'-0"	1 3/4"	D1	WD	PT-01	SC	GL-2	HM	PT-01	-	No	4/A-841	4/A-841		
111	3'-0"	7'-0"	1 3/4"	D1	WD	PT-01	SC	GL-2	HM	PT-01	-	No	4/A-841	4/A-841		
112	3'-0"	7'-0"	1 3/4"	D1	WD	PT-01	SC	GL-2	HM	PT-01	-	No	4/A-841	4/A-841		
113	3'-0"	7'-0"	1 3/4"	A1	WD	PT-01	SC	-	HM	PT-01	-	No	4/A-841	4/A-841		
114	3'-0"	7'-0"	1 3/4"	D1	WD	PT-01	SC	GL-2	HM	PT-01	-	No	4/A-841	4/A-841		
115	3'-0"	7'-0"	1 3/4"	A1	WD	PT-01	SC	-	HM	PT-01	-	No	4/A-841	4/A-841		
116	3'-0"	7'-0"	1 3/4"	D1	WD	PT-01	SC	GL-2	HM	PT-01	-	No	4/A-841	4/A-841		
117	3'-0"	7'-0"	1 3/4"	A1	WD	PT-01	SC	-	HM	PT-01	-	No	4/A-841	4/A-841		
119A	3'-0"	7'-0"	1 3/4"	A1	HM	EPT-02	IC	-	HM	EPT-02	-	No	1/A-841	2/A-841	3/A-841	
119B	3'-0"	7'-0"	1 3/4"	A1	HM	EPT-02	IC	-	HM	EPT-02	-	No	1/A-841	2/A-841	3/A-841	
120A	3'-0"	7'-0"	1 3/4"	A1	HM	EPT-02	IC	-	HM	EPT-02	-	Yes	1/A-841	2/A-841	3/A-841	
120B	3'-0"	7'-0"	1 3/4"	A1	HM	EPT-02	IC	-	HM	EPT-02	-	Yes	1/A-841	2/A-841	3/A-841	
121	3'-0"	7'-0"	1 3/4"	A1	HM	EPT-02	IC	-	HM	EPT-02	-	No	1/A-841	2/A-841	3/A-841	
122	3'-0"	7'-0"	1 3/4"	A1	WD	PT-01	IC	-	HM	PT-01	-	No	4/A-841	4/A-841	3/A-841	
123	3'-0"	7'-0"	1 3/4"	A1	WD	PT-01	IC	-	HM	PT-01	-	No	4/A-841	4/A-841	3/A-841	
124	3'-0"	7'-0"	1 3/4"	A1	HM	EPT-02	IC	-	HM	EPT-02	-	No	1/A-841	2/A-841	3/A-841	
125	3'-0"	7'-0"	1 3/4"	A1	HM	EPT-02	IC	-	HM	EPT-02	-	No	1/A-841	2/A-841	3/A-841	
130	3'-0"	7'-0"	1 3/4"	A1	HM	EPT-02	IC		HM	EPT-02	-	No	1/A-841	2/A-841	3/A-841	
131	3'-0"	7'-0"	1 3/4"	A1	HM	EPT-02	IC	-	HM	EPT-02	-	No	1/A-841	2/A-841		
132	6'-0"	7'-0"	1 3/4"	A2	HM	EPT-02	IC	-	HM	EPT-02	-	No	1/A-841	2/A-841		

WINDOW SCHEDULE BUILDING 100

NO.	WINDOW TYPE	SIZE WIDTH	SIZE HEIGHT	SILL HEIGHT	MATERIAL	GLAZING THICKNESS	GLAZING TYPE	FIRE RATING	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	REMARKS
01-01	1	4'-0"	4'-0"	3'-2"	ALUM				3/A-851	9/A-851	5/A-851	
01-02	1	4'-0"	4'-0"	3'-2"	ALUM				3/A-851	9/A-851	5/A-851	
01-03	1	4'-0"	4'-0"	3'-2"	ALUM				3/A-851	9/A-851	5/A-851	
01-04	1	4'-0"	4'-0"	3'-2"	ALUM				3/A-851	9/A-851	5/A-851	
01-05	1	4'-0"	4'-0"	3'-2"	ALUM				3/A-851	9/A-851	5/A-851	
01-06	1	4'-0"	4'-0"	3'-2"	ALUM				8/A-851	9/A-851	10/A-851	
01-07	1	4'-0"	4'-0"	3'-2"	ALUM				8/A-851	9/A-851	10/A-851	
01-08	1	4'-0"	4'-0"	3'-2"	ALUM				8/A-851	9/A-851	5/A-851	
01-09	1	4'-0"	4'-0"	3'-2"	ALUM				8/A-851	9/A-851	5/A-851	
01-10	1	4'-0"	4'-0"	3'-2"	ALUM				8/A-851	9/A-851	5/A-851	
01-11	1	4'-0"	4'-0"	3'-2"	ALUM				8/A-851	9/A-851	10/A-851	
01-12	1	4'-0"	4'-0"	3'-2"	ALUM				8/A-851	9/A-851	10/A-851	
01-13	1	4'-0"	4'-0"	3'-2"	ALUM				8/A-851	9/A-851	10/A-851	
01-14	1	4'-0"	4'-0"	3'-2"	ALUM				8/A-851	9/A-851	10/A-851	
01-15	1	4'-0"	4'-0"	3'-2"	ALUM				8/A-851	9/A-851	10/A-851	
01-16	1	4'-0"	4'-0"	3'-2"	ALUM				8/A-851	9/A-851	10/A-851	
01-17	1	4'-0"	4'-0"	3'-2"	ALUM				8/A-851	9/A-851	10/A-851	
01-18	1	4'-0"	4'-0"	3'-2"	ALUM				8/A-851	9/A-851	10/A-851	
01-19	1	4'-0"	4'-0"	3'-2"	ALUM				8/A-851	9/A-851	10/A-851	
01-20	1	4'-0"	4'-0"	3'-2"	ALUM				8/A-851	9/A-851	10/A-851	
01-21	1	4'-0"	4'-0"	3'-2"	ALUM				8/A-851	9/A-851	10/A-851	
01-22	1	4'-0"	4'-0"	3'-2"	ALUM				2/A-851	4/A-851	5/A-851	
01-23	1	4'-0"	4'-0"	3'-2"	ALUM				12/A-851	9/A-851	5/A-851	
01-24	1	4'-0"	4'-0"	3'-2"	ALUM				2/A-851	4/A-851	5/A-851	
01-25	1	4'-0"	4'-0"	3'-2"	ALUM				12/A-851	9/A-851	5/A-851	
01-26	1	4'-0"	4'-0"	3'-2"	ALUM				2/A-851	4/A-851	5/A-851	
01-27	1	4'-0"	4'-0"	3'-2"	ALUM				12/A-851	9/A-851	5/A-851	
01-28	1	4'-0"	4'-0"	3'-2"	ALUM				2/A-851	4/A-851	5/A-851	
01-29	1	4'-0"	4'-0"	3'-2"	ALUM				12/A-851	9/A-851	5/A-851	
01-30	1	4'-0"	4'-0"	3'-2"	ALUM				2/A-851	4/A-851	5/A-851	
01-31	1	4'-0"	4'-0"	3'-2"	ALUM				12/A-851	9/A-851	5/A-851	
01-32	1	4'-0"	4'-0"	3'-2"	ALUM				3/A-851	14/A-851	5/A-851	
01-33	1	4'-0"	4'-0"	3'-2"	ALUM				3/A-851	14/A-851	5/A-851	
01-34	1	4'-0"	4'-0"	3'-2"	ALUM				3/A-851	14/A-851	5/A-851	
01-35	3	3'-8"	3'-0"	2'-6"	ALUM				18/A-851	19/A-851	20/A-851	
01-36	2	2'-0"	4'-0"	12'-4"	ALUM				13/A-851	14/A-851	10/A-851	
01-37	2	2'-0"	4'-0"	12'-4"	ALUM				13/A-851	14/A-851	10/A-851	
01-38	2	2'-0"	4'-0"	12'-4"	ALUM				13/A-851	14/A-851	10/A-851	
01-39	2	2'-0"	4'-0"	12'-4"	ALUM				13/A-851	14/A-851	10/A-851	
01-40	2	2'-0"	4'-0"	12'-4"	ALUM				13/A-851	14/A-851	10/A-851	
01-41	2	2'-0"	4'-0"	12'-4"	ALUM				23/A-851	24/A-851	10/A-851	
01-42	2	2'-0"	4'-0"	12'-4"	ALUM				23/A-851	25/A-851	24/A-851	

GATE SCHEDULE

NO.	SIZE WIDTH	SIZE HEIGHT	GATE TYPE	GATE MATERIAL	GATE FINISH	FRAME MATERIAL	FRAME FINISH	PANIC HARDWARE	REMARKS
G01	6'-5"	7'-6"	1	HM	FF	STL	FF	Yes	
G02	6'-5"	7'-6"	1	HM	FF	STL	FF	Yes	
G03	12'-0"	8'-0"	2	HM	FF	STL	FF	No	
G04	3'-0"	8'-0"	3	HM	FF	STL	FF	Yes	
G05	12'-0"	8'-0"	5	HM	FF	STL	FF	No	
G06	10'-0"	8'-0"	4	HM	FF	STL	FF	No	
G07	10'-0"	8'-0"	4	HM	FF	STL	FF	No	
G08	12'-0"	8'-0"	5	HM	FF	STL	FF	No	
G09	26'-0"	3'-6"	6					No	
G15	2'-0"	3'-0"	10						
G16	2'-0"	3'-0"	10						

LEGEND

GLASS TYPES
- GL-1 INSULATING GLASS, CLEAR - 08 80 00
- GL-2 INSULATING TEMPERED GLASS, CLEAR - 08 80 00
- GL-3 TEMPERED GLASS, CLEAR - 08 80 00

MATERIALS
- ALUM ALUMINUM
- HM HOLLOW METAL
- WD WOOD
- STL STEEL

FINISHES
- PF-1 PAINT - SEMI-GLOSS - 09 90 00
- PF-2 PAINT - EGGSHELL - 09 90 00
- PF-3 PAINT - SEMI-GLOSS ENAMEL - 09 90 00
- PF-4 PAINT - FERROUS METAL PIPING, MISC METALS - 09 90 00
- PF-5 PAINT - GALVANIZED DUCTWORK, ELECT CONDUIT - 09 90 00
- PF-6 PAINT - EPOXY - 09 90 00
- PFX-1 PAINT - STEEL DOORS & FRAMES - 09 90 00
- PFX-2 PAINT - HIGH PERFORMANCE COATING - 09 90 00
- PFX-3 PAINT - FERROUS METAL PIPING, MISC METALS - 09 90 00
- PFX-4 PAINT - FLAT FINISH ACRYLIC - 09 90 00
- FF FACTORY FINISH

CORE TYPES
- SC SOLID WOOD CORE
- HC HOLLOW CORE
- IC INSULATED CORE

OTHER
- T TEMPERED GLASS PANEL

REMARKS

1. SEE WINDOW TYPES FOR DOOR / WINDOW FRAME COMBINATIONS
2. GLASS TRANSOM (GLAZING TO MATCH DOOR GLAZING)
3. PROVIDE MIRRORED FILM ON #2 FACE.
4. PROVIDE FROSTED FILM ON #3 FACE.

GENERAL NOTES

1. DIMENSIONS TO INTERMEDIATE WINDOW MULLIONS ARE TO CENTERLINE OF MULLION. DIMENSIONS TO EDGE MULLIONS ARE TO FACE OF FRAME.
2. DOORS TO MEET MANUEVERING CLEARANCES PER DETAIL X/A-XXX. PER CBC 1010.1.5 AND 11B-404.2.4.4, FLOOR OR GROUND SPACE WITHIN REQUIRED MANEUVERING CLEARANCES SHALL BE LEVEL (LESS THAN 2% IN ALL DIRECTIONS).
3. PER CBC 1010.1.3 AND 11B-404.2.9, THE FORCE FOR PUSHING OR PULLING OPEN A DOOR OR GATE SHALL BE 5 POUNDS MAX. EXCEPT AT FIRE DOORS WHERE THE MIN. OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY, NOT TO EXCEED 15 POUNDS.
4. PER CBC 11B-404.2.10, SWINGING DOOR AND GATE SURFACES WITH 10 INCHES OF THE FINISH FLOOR OR GROUND MEASURED VERTICALLY SHALL HAVE A SMOOTH SURFACE ON THE PUSH SIDE EXTENDING THE FULL WIDTH OF THE DOOR OR GATE. PARTS CREATING HORIZONTAL OR VERTICAL JOINTS IN THESE SURFACES SHALL BE WITHIN 1/16 INCH OF THE SAME PLANE AS THE OTHER AND BE FREE OF SHARP OR ABRASIVE EDGES. CAVITIES CREATED BY ADDED KICK PLATES SHALL BE CAPPED.
5. PER CBC 11B-404.2.7, HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERABLE PARTS ON DOORS AND GATES SHALL BE 34 INCHES MIN. AND 44 INCHES MAX. ABOVE TEH FINISH FLOOR OR GROUND. WHERE SLIDING DOORS ARE IN THE FULLY OPEN POSITION, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE BOTH SIDES.
6. PER CBC 1010.1.9.1, ALL DOOR HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERATING DEVICES ON DOORS SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE.
7. ALL EXTERIOR DOORS TO HAVE WEATHERSTRIPPING.
8. FOR WALL TYPES, REFER TO PLANS AND WALL TYPES SCEDULE. COORDINATE DOOR FRAME THROAT SIZE WITH WALL TYPE SCHEDULE.
9. PER CBC 1010.2.9, SWINGING DOORS SERVING A GROUP H OCCUPANCY AND SWINGING DOORS SERVING ROOMS OR SPACES WITH AN OCCUPANT LOAD OF 50 OR MORE IN A GROUP A OR E OCCUPANCY ASSEMBLY AREA NOT CLASSIFIED AS AN ASSEMBLY OCCUPANCY E, I-2 OR I-2.1 OCCUPANCIES SHALL BE PROVIDED WITH PANIC HARDWARE OR FIRE EXIT HARDWARE. THE PANIC HARDWARE DEVICE SHALL BE LISTED AND LABELED.
10. EGRESS DOORS SHALL BE READILY OPERABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.
11. PER CBC 716.2.9, FIRE DOOR ASSEMBLIES SHALL BE LABELED BY AN APPROVED AGENCY AND SHALL COMPLY WITH NFPA 80. LABELING SHALL BE PERMANENTLY AFFIXED TO THE DOOR OR FRAME AND SHALL HAVE NAME OF MANUFACTURER, FIRE RATING, AND MAXIMUM TRANSMITTED TEMPERATURE END POINT. LABEL SHALL BE APPLIED AT THE FACTORY.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125726 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/28/2026

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LICENSED ARCHITECT STEPHANIE B. ANG NO. C34108 REN. AUG 31, 27 STATE OF CALIFORNIA

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KERN HIGH SCHOOL DISTRICT
5801 SUNDALE AVE.
BAKERSFIELD, CA 93309

CENTRAL VALLEY HIGH SCHOOL
CONTINUATION HIGH SCHOOL CAMPUS
526 MANNEL AVENUE
SHAFTER, CA 93263

DRAWING SUBMITTAL SCHEDULE

100% DD SET	07/08/2025
50% CONSTRUCTION DOCUMENTS	10/10/2025
100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO:22434-E-02

DOOR/WINDOW SCHEDULE - BUILDING 100

A-510

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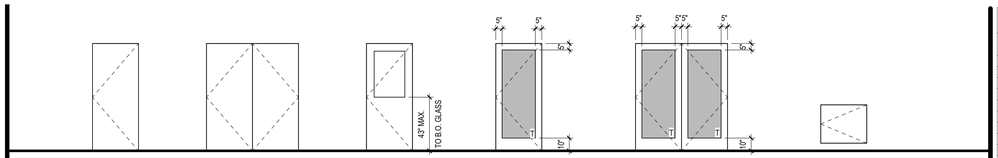

A1 SINGLE FLUSH | A2 DOUBLE FLUSH | D1 SINGLE VISION HALF PANEL | E1 SINGLE VISION FULL PANEL | E2 DOUBLE VISION FULL PANEL | L1 SINGLE SALOON SWING

DOOR TYPES

1 FIXED | 2 CLERESTORY | 3 INTERIOR SERVICE SLIDER

WINDOW TYPES

WINDOW SCHEDULE BUILDING 200

NO.	WINDOW TYPE	SIZE		SILL HEIGHT	MATERIAL	GLAZING THICKNESS	GLAZING TYPE	FIRE RATING	DETAILS			REMARKS
		WIDTH	HEIGHT						HEAD	JAMB	SILL	
02-01	2	4'-0"	2'-0"	7'-0"	ALUM				8/A-851	9/A-851	5/A-851	
02-02	2	4'-0"	2'-0"	7'-0"	ALUM				8/A-851	9/A-851	5/A-851	
02-03	2	4'-0"	2'-0"	7'-0"	ALUM				8/A-851	9/A-851	5/A-851	
02-04	2	4'-0"	2'-0"	7'-0"	ALUM				8/A-851	9/A-851	5/A-851	
02-05	1	4'-0"	4'-0"	3'-2"	ALUM				8/A-851	9/A-851	5/A-851	
02-06	1	4'-0"	4'-0"	3'-2"	ALUM				8/A-851	9/A-851	5/A-851	
02-07	1	4'-0"	4'-0"	3'-2"	ALUM				8/A-851	9/A-851	5/A-851	
02-08	1	4'-0"	4'-0"	3'-2"	ALUM				2/A-851	4/A-851	5/A-851	
02-09	1	4'-0"	4'-0"	3'-2"	ALUM				8/A-851	9/A-851	5/A-851	
02-10	1	4'-0"	4'-0"	3'-2"	ALUM				2/A-851	4/A-851	5/A-851	
02-11	1	4'-0"	4'-0"	3'-2"	ALUM				8/A-851	9/A-851	5/A-851	
02-12	1	4'-0"	4'-0"	3'-2"	ALUM				2/A-851	4/A-851	5/A-851	
02-13	1	4'-0"	4'-0"	3'-2"	ALUM				8/A-851	9/A-851	5/A-851	
02-14	1	4'-0"	4'-0"	3'-2"	ALUM				3/A-851	9/A-851	5/A-851	
02-15	1	4'-0"	4'-0"	3'-2"	ALUM				3/A-851	9/A-851	5/A-851	
02-16	1	4'-0"	4'-0"	3'-2"	ALUM				8/A-851	9/A-851	5/A-851	
02-17	1	4'-0"	4'-0"	3'-2"	ALUM				8/A-851	9/A-851	5/A-851	
02-18	1	4'-0"	4'-0"	3'-2"	ALUM				8/A-851	9/A-851	5/A-851	

DOOR SCHEDULE - BUILDING 200

NO.	SIZE			DOOR TYPE	DOOR				FRAME		RATING	PANIC HARDWARE	DETAILS			REMARKS
	WIDTH	HEIGHT	THICK.		MATERIAL	FINISH	CORE	GLAZING	MATERIAL	FINISH			HEAD	JAMB	SILL	
201A	6'-0"	7'-0"	1 3/4"	A2	HM	EPT-02	IC	-	HM	EPT-02	-	Yes				
201B	6'-0"	7'-0"	2"	E2	STL	FF	IC	GL-2	STL	FF	-	Yes				
201C	6'-0"	7'-0"	2"	E2	STL	FF	IC	GL-2	STL	FF	-	Yes				
202	3'-0"	7'-0"	1 3/4"	A1	HM	EPT-02	IC	-	HM	EPT-02	-	Yes			3/A-841	
203A	3'-6"	7'-0"	1 3/4"	A1	HM	PT-01	IC	-	HM	PT-01	-	No				
203B	6'-0"	7'-0"	1 3/4"	A2	HM	EPT-02	IC	-	HM	EPT-02	-	No				
204A	3'-0"	7'-0"	1 3/4"	A1	HM	EPT-02	IC	-	HM	EPT-02	-	No				
204B	3'-0"	7'-0"	1 3/4"	A1	HM	PT-01	IC	-	HM		-	No				
205	3'-0"	7'-0"	1 3/4"	A1	HM	EPT-02	IC	-	HM	EPT-02	-	No			3/A-841	
206	3'-0"	7'-0"	1 3/4"	A1	HM	EPT-02	IC	-	HM	EPT-02	-	No			3/A-841	
207	3'-0"	7'-0"	1 3/4"	A1	HM	EPT-02	IC	-	HM	EPT-02	-	No			3/A-841	
208	3'-0"	7'-0"	1 3/4"	A1	HM	EPT-02	IC	-	HM	EPT-02	-	No			3/A-841	
209	3'-0"	7'-0"	1 3/4"	A1	HM	EPT-02	IC	-	HM	EPT-02	-	No			3/A-841	
210	3'-0"	7'-0"	1 3/4"	A1	HM	EPT-02	IC	-	HM	EPT-02	-	No			3/A-841	
211	3'-0"	7'-0"	1 3/4"	A1	Hm	EPT-02	IC	-	HM	EPT-02	-	No			3/A-841	
212	3'-0"	7'-0"	1 3/4"	A1	HM	EPT-02	IC	-	HM	EPT-02	-	No			3/A-841	
213	6'-0"	7'-0"	1 3/4"	A2	HM	EPT-02	IC	-	HM	EPT-02	-	No				

LEGEND

GLASS TYPES
- GL-1 INSULATING GLASS, CLEAR - 08 80 00
- GL-2 INSULATING TEMPERED GLASS, CLEAR - 08 80 00
- GL-3 TEMPERED GLASS, CLEAR - 08 80 00

MATERIALS
- ALUM ALUMINUM
- HM HOLLOW METAL
- WD WOOD
- STL STEEL

FINISHES
- PF-1 PAINT - SEMI-GLOSS - 09 90 00
- PF-2 PAINT - EGGSHELL - 09 90 00
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- PF-5 PAINT - GALVANIZED DUCTWORK, ELECT CONDUIT - 09 90 00
- PF-6 PAINT - EPOXY - 09 90 00

- PFX-1 PAINT - STEEL DOORS & FRAMES - 09 90 00
- PFX-2 PAINT - HIGH PERFORMANCE COATING - 09 90 00
- PFX-3 PAINT - FERROUS METAL PIPING, MISC METALS - 09 90 00
- PFX-4 PAINT - FLAT FINISH ACRYLIC - 09 90 00

- FF FACTORY FINISH

CORE TYPES
- SC SOLID WOOD CORE
- HC HOLLOW CORE
- IC INSULATED CORE

OTHER
- T TEMPERED GLASS PANEL

REMARKS

1. SEE WINDOW TYPES FOR DOOR / WINDOW FRAME COMBINATIONS
2. GLASS TRANSOM (GLAZING TO MATCH DOOR GLAZING)
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4. PROVIDE FROSTED FILM ON #3 FACE.

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LICENSED ARCHITECT
STEPHANIE B. MAIER
NO. C-34108
REN. AUG 31, 27
STATE OF CALIFORNIA

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KERN HIGH SCHOOL DISTRICT
5801 SUNDALE AVE.
BAKERSFIELD, CA 93309

CENTRAL VALLEY HIGH SCHOOL
CONTINUATION HIGH SCHOOL CAMPUS
526 MANNEL AVENUE
SHAFTER, CA 93263

DRAWING SUBMITTAL SCHEDULE

	100% DD SET	07/08/2025
	50% CONSTRUCTION DOCUMENTS	10/10/2025
	100% CONSTRUCTION DOCUMENTS	11/21/2025
	DWG V2	02/27/2026
	DWG V3	04/28/2026

PROJECT NO:22434-E-02

DOOR/WINDOW SCHEDULE - BUILDING 200

A-520

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FINISH LEGEND

FLOOR FINISHES

- CPT-01 — DESCRIPTION: CARPET TILE
  MANUFACTURER: MOHAWK
  STYLE/PATTERN: CREATIVE CULTURE - 24" x 24"
  COLOR: PUMICE
  REMARKS: STRAIGHT
- CS-01 — DESCRIPTION: PENETRATING CONCRETE SEALER
  MANUFACTURER: CURECRETE
  STYLE/PATTERN: LOW SHEEN
  COLOR: CLEAR
- CS-02 — DESCRIPTION: GRIT-INFUSED SEALER
  MANUFACTURER: CROWN POLYMERS
  STYLE/PATTERN: 8100 CROWNCOTE HP
  COLOR: CLEAR
- LVT-01 — DESCRIPTION: LUXURY VINYL TILE
  MANUFACTURER: MOHAWK
  STYLE/PATTERN: MOLVENO WOODS - 7" x 59"
  COLOR: GINGER ROOT
- CONC — DESCRIPTION: UNFINISHED EXPOSED CONCRETE

WALL BASE

- WB-1A — DESCRIPTION: RESILIENT BASE
  MANUFACTURER: BURKE
  STYLE/PATTERN: STRAIGHT - 4"
  COLOR: 168 BLUISH WHITE
- WB-2A — DESCRIPTION: RESILIENT BASE
  MANUFACTURER: BURKE
  STYLE/PATTERN: COVE - 4"
  COLOR: 246 KHAKI GREEN
- WB-3A — DESCRIPTION: RESILIENT BASE
  MANUFACTURER: BURKE
  STYLE/PATTERN: STRAIGHT - 4"
  COLOR: 519 BAJA
- WB-1B — DESCRIPTION: RESILIENT BASE
  MANUFACTURER: SCHLUTER SYSTEMS
  STYLE/PATTERN: 3/8" RADIUSED COVE
  COLOR: STONE GREY
  REMARKS: TBD

PAINT (EXTERIOR)

- EPT-01 — DESCRIPTION: PAINT - AWNING AND COLUMNS
  MANUFACTURER: DUNN EDWARDS
  COLOR: DET521 ARIZONA TREE FROG
- EPT-02 — DESCRIPTION: PAINT - DOOR AND WINDOW TRIM
  MANUFACTURER: DUNN EDWARDS
  COLOR: DE6328 ANCHOR GRAY

PAINT (INTERIOR)

- PT-01 — DESCRIPTION: PAINT - FIELD COLOR
  MANUFACTURER: DUNN EDWARDS
  COLOR: DET647 TRADE WINDS
- PT-02 — DESCRIPTION: PAINT - ACCENT COLOR
  MANUFACTURER: DUNN EDWARDS
  COLOR: DE5570 GARDENING
- PT-03 — DESCRIPTION: PAINT - ACCENT COLOR
  MANUFACTURER: DUNN EDWARDS
  COLOR: DE5430 BEACH HOUSE

WALL FINISHES

- R-01 — DESCRIPTION: STANDING SEAM METAL ROOF
  MANUFACTURER: METAL SALES
  STYLE/PATTERN: VERTICAL SEAM - FLAT
  COLOR: SLATE GRAY
- BB-01 — DESCRIPTION: BOARD AND BATTEN
  MANUFACTURER: JAMES HARDIE
  STYLE/PATTERN: HARDIE TRIM BATTEN BOARD
  COLOR: ARCTIC WHITE SMOOTH GRAIN
- SD-01 — DESCRIPTION: SIDING
  MANUFACTURER: JAMES HARDIE
  STYLE/PATTERN: HARDIE ARTISAN SIDING
  COLOR: GRAY SLATE
- MP-01 — DESCRIPTION: METAL PANEL
  MANUFACTURER: METAL SALES
  STYLE/PATTERN: METAL WALL PANELS
- FP-01 — DESCRIPTION: FELT WALL PANEL
  MANUFACTURER: ACOUFELT
  STYLE/PATTERN: FRACTURE TWO TONE BARCODE
  COLOR: TH28 THITLE
- FRP-01 — DESCRIPTION: PLASTIC WALL PANEL
  MANUFACTURER: MARLITE
  STYLE/PATTERN: PEBBLED FRP
  COLOR: SILVER

CERAMIC TILE

- CT-01 — DESCRIPTION: CERAMIC TILE - WALLS
  MANUFACTURER: DALTILE
  STYLE/PATTERN: COLOR WHEEL CLASSIC - 3" x 6"
  COLOR: ALMOND
  REMARKS: GROUT: MAPEI 5103 COBBLESTONE
- CT-02 — DESCRIPTION: CERAMIC TILE - WALLS
  MANUFACTURER: DALTILE
  STYLE/PATTERN: COLOR WHEEL CLASSIC - 3" x 6"
  COLOR: GARDEN SPOT
  REMARKS: GROUT: MAPEI 5103 COBBLESTONE
- CT-03 — DESCRIPTION: CERAMIC TILE - WALLS
  MANUFACTURER: DALTILE
  STYLE/PATTERN: COLOR WHEEL CLASSIC - 3" x 6"
  COLOR: EMERALD
  REMARKS: GROUT: MAPEI 5103 COBBLESTONE
- CT-04 — DESCRIPTION: CERAMIC TILE - WALLS
  MANUFACTURER: DALTILE
  STYLE/PATTERN: COLOR WHEEL CLASSIC - 3" x 6"
  COLOR: KEY LIME
  REMARKS: GROUT: MAPEI 5103 COBBLESTONE
- CT-05 — DESCRIPTION: CERAMIC TILE - FLOORS
  MANUFACTURER: DALTILE
  STYLE/PATTERN: KEYSTONES - 2" x 2"
  COLOR: ALMOND BLEND
  REMARKS: GROUT: MAPEI 5103 COBBLESTONE

CASEWORK

- WV-01 — DESCRIPTION: CUSTOM WOOD VENEER IN ALL STUDENT AREAS AND CLASSROOMS
  STYLE/PATTERN: TYPE 1, STYLE A, PRE-FINISHED
  COLOR: WHITE BIRCH
  REMARKS: W.I. CUSTOM GRADE, PREMIUM GRADE AND LABORATORY AT SPECIFIED AREAS
- SS-01 — DESCRIPTION: SOLID SURFACE COUNTERTOP AT LOBBY AND ADMIN AREAS
  MANUFACTURER: WILSONART
  STYLE/PATTERN: BASALT CONCRETE
- PL-01 — DESCRIPTION: PLASTIC LAMINATE IN STAFF AREAS
  MANUFACTURER: WILSONART
  STYLE/PATTERN: 8262 HARRISON ELM
- PL-02 — DESCRIPTION: LAMINATE COUNTERTOP AT DEMONSTRATION TABLE IN SCIENCE CLASSROOM
  MANUFACTURER: FORMICA
  STYLE/PATTERN: TRESPA TOPLAB PLUS ALIGN
  COLOR: VP122 SLATE GREY
- PL-03 — DESCRIPTION: PLASTIC LAMINATE IN STAFF AND STUDENT AREAS
  MANUFACTURER: FORMICA
  STYLE/PATTERN: ANTIMICROBIAL COLLECTION
  COLOR: 912A STORM

CEILING

- ACT-01 — DESCRIPTION: ACOUSTICAL TILE - SUSPENDED T-BAR
  MANUFACTURER: ARMSTRONG
  STYLE/PATTERN: CORTEGA TEGULAR - 24"x24" AND 24"x48"
  COLOR: WHITE
- ACT-02 — DESCRIPTION: ACT - SUSPENDED T-BAR
  MANUFACTURER: ARMSTRONG
  STYLE/PATTERN: CORTEGA TEGULAR - 24"x24" AND 24"x48"
  COLOR: WHITE
  REMARKS: MOISTURE-RESISTANT GYPSUM BOARD
- GB-01 — DESCRIPTION: HARDLID - GYPSUM BOARD
  MANUFACTURER: REFER TO SPECIFICATIONS
  COLOR: SEE FINISH SCHEDULE

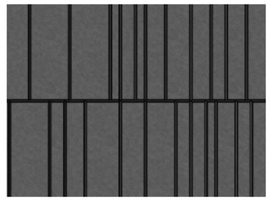
MISCELLANEOUS

- CMU-01 — DESCRIPTION: CONCRETE MASONRY UNIT
  MANUFACTURER: ORCO
  STYLE/PATTERN: SHOT BLAST, SQUARE
  COLOR: NATURAL GRAY MW
  REMARKS: SPECIFICATION 04 22 00
  GROUT COLOR: GRAY

EXTERIOR MATERIALS

R-01
METAL SALES VERTICAL SEAM,
FLAT, SLATE GRAY, STANDING SEAM METAL ROOF

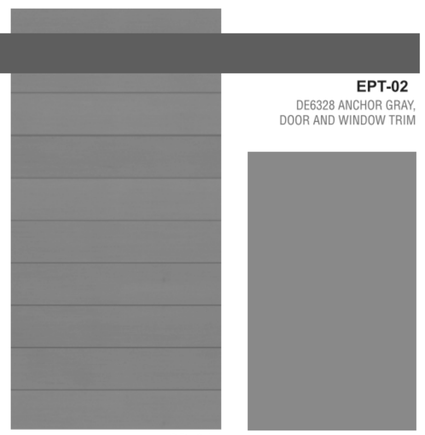
BB-01
HARDIE TRIM BATTEN BOARD, ARTIC WHITE SMOOTH GRAIN,
EXTERIOR BOARD AND BATTEN



FP-01
ACOUFELT TH28 THISTLE
FRACTURE TWO TONE, BARCODE
FELT WALL PANEL AT RECEPTION AREA

EPT-01
DET521 ARIZONA TREE FROG,
COLUMNS AND METAL AWNING

CMU-01
ORCO SHOT BLAST,
SQUARE NATURAL GRAY MW
EXTERIOR CMU BLOCK



SD-01
HARDIE ARTISAN SIDING,
SQUARE CHANNEL, GRAY SLATE
EXTERIOR SIDING

EPT-02
DE6328 ANCHOR GRAY,
DOOR AND WINDOW TRIM

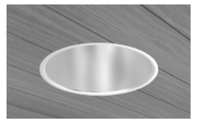
MP-01
ARCHITECTURAL PANEL, GRAY SLATE
EXTERIOR METAL PANELS

INTERIOR MATERIALS

ACT-01
ARMSTRONG, CORTEGA TEGULAR WHITE
ACOUSTICAL CEILING TILE 24"X24" AT ADMIN AND
24"X48" THROUGHOUT

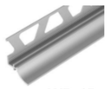
Recessed Grid LED
LITHONIA LIGHTING LED LAY IN 24" X 24"
INTERIOR LIGHTING THROUGHOUT

FRP-01
MARLITE, 145 SILVER,
CLASS C CLASS A
FRP AT RESTROOMS

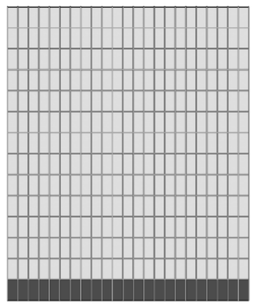


Recessed Adjustable Downlight
GOTHAM 6" DIAMETER ROUND RECESSED
INTERIOR LIGHTING THROUGHOUT

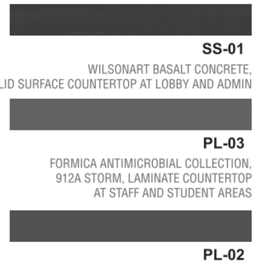
Wall Tile Layout
DALTILE, COLOR WHEEL, GARDEN SPOT,
3X6 OR 4X4 CERAMIC TILE AT STAFF LOUNGE



WB-1B
SCHLUTER SYSTEM
3/8" COVE STONE
GREY AT SEALED
CONCRETE FLOORING



CT-A Typical Wall Tile Layout
DALTILE, COLOR WHEEL,
ALMOND 3X6 WITH MATCHING BULLNOSE,
EMERALD 3X6 COVE,
WALL TILE THROUGHOUT RESTROOMS



SS-01
WILSONART BASALT CONCRETE,
SOLID SURFACE COUNTERTOP AT LOBBY AND ADMIN

PL-03
FORMICA ANTIMICROBIAL COLLECTION,
912A STORM, LAMINATE COUNTERTOP
AT STAFF AND STUDENT AREAS

PL-02
FORMICA TRESPA TOPLAB PLUS ALIGN,
VP122 SLATE GREY, LAMINATE COUNTERTOP
AT DEMONSTARTION TABLE IN SCIENCE ROOM

PL-01
WILSONART 8262
`HARRISON ELM,
P-LAM CASEWORK

WV-01
CUSTOM WOOD VENEER, WHITE BIRCH,
TYPE 1, STYLE A , PRE-FINISHED
W.I. CUSTOM GRADE AT STUDENT AREAS
PREMIUM GRADE AT RECEPTION
LABORATORY GRADE AT SCIENCE CLASSROOMS

CS-01
CURECRETE, PENETRATING CONCRETE SEALER,
LOW SHEEN, CLEAR,
POLISHED AND SEALED CONCRETE AT RE-
STROOMS, LAB CLASSROOMS, SERVERY,
STORAGE AND UTILITIES

CS-02
CROWN POLYMERS, GRIT INFUSED SEALER,
8100 CROWNCOTE HP, CLEAR,
POLISHED AND SEALED CONCRETE AT
LAB CLASSROOMS, SERVERY,
STORAGE AND UTILITIES

PT-01
DET647 TRADE WINDS,
INTERIOR FIELD PAINT

PT-02
DE5570
GARDENING
ACCENT PAINT

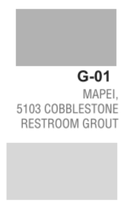
PT-03
DE5430
BEACH HOUSE
ACCENT PAINT

CT-04
DALTILE, COLOR
WHEEL, KEY LIME
RESTROOM WALL TILE

CT-03
DALTILE, COLOR
WHEEL, EMERALD
RESTROOM WALL TILE

CT-02
DALTILE, COLOR
WHEEL, GARDEN SPOT
RESTROOM WALL TILE

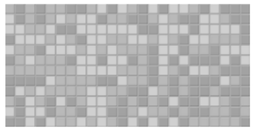
CT-01
DALTILE, COLOR
WHEEL, ALMOND
RESTROOM WALL TILE



CT-03A
DALTILE, COLOR
WHEEL, EMERALD
RESTROOM COVE TILE

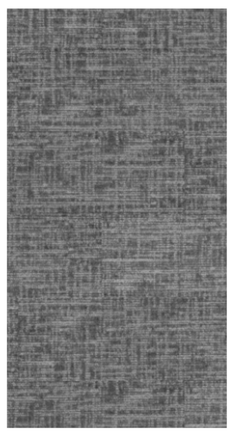
G-01
MAPEI,
5103 COBBLESTONE
RESTROOM GROUT

CT-01A
DALTILE, COLOR WHEEL,
ALMOND
BULLNOSE TILE

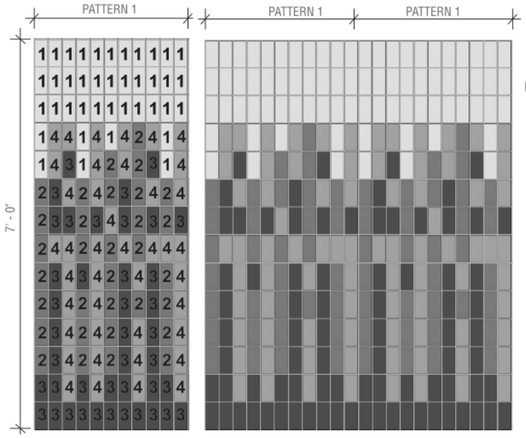


CT-05
DALTILE, KEYSTONE, ALMOND BLEND, 2X2,
MATTE, V4 RANDOM VARIATION,
FLOOR TILE AT RESTROOMS

LVT-01
MOHWAK MOLVENO WOODS, GINGER ROOT,
LUXURY VINYL TILE FLOORING AT LOBBY, STAFF
LOUNGE, AND BLDG. 200 CLASSRROOMS



CPT-01
MOHAWK, CREATIVE CULTURE, PUMICE,
CARPET AT OFFICES AND CONFERENCE ROOM



CT-B Accent Tile Pattern
ACCENT WALL AT RESTROOMS
1 = CT-01
2 = CT-02
3 = CT-03
4 = CT-04

CT-B Accent Wall Tile Layout
DALTILE, COLOR WHEEL,
ALMOND, GARDEN SPOT, KEY LIME, EMERALD 3X6,
ALMOND 3X6 BULLNOSE,
EMERALD 3X6 COVE,
ACCENT WALL AT RESTROOMS

GENERAL FINISH NOTES

GENERAL NOTES
1. ALL FINISHES SHALL COMPLY WITH C.B.C. CHATER 8 AND WITH THE TITLE 19 C.C.R. AND C.F.C.

PAINT
1. REFER TO SPECIFICATIONS FOR PAINT TYPE AT DIFFERING SURFACES
2. FIRE-RATED IDENTIFICATION ON DOORS, FRAMES, PLYWOOD BACKBOARD, AND THE LIKE, SHALL BE VISIBLE AND NOT RECEIVE PAINT.
3. PAINT ALL EXPOSED STRUCTURAL STEEL, METAL DECK, DUCTWORK, AND ELECTRICAL COMPONENTS 09 90 00
4. PAINT SHEEN AS FOLLOWS:
   ALL WALLS TO BE PAINTED: SEMI-GLOSS, U.N.O.
   ALL CEILINGS (EXCEPT RESTROOMS) TO BE PAINTED: FLAT
   RESTROOM CEILINGS TO BE PAINTED: SEMI-GLOSS
   DOORS TO BE PAINTED: SEMI-GLOSS
   DOOR FRAMES TO BE PAINTED: SEMI-GLOSS

WALL FINISHES
1. ALL PATCHING OF CEMENT PLASTER FINISHES TO MATCH EXISTING TEXTURE.
2. REFER TO INTERIOR ELEVATIONS FOR TILE PATTERN AND HEIGHTS IN RESTROOMS. WALL TILE GROUT LINES SHOULD ALIGN WITH WALL BASE AND FLOOR GROUT LINES, U.N.O.
3. ALL INTERIOR ROOMS TO BE PAINTED XX, U.N.O. WITHIN FINISH SCHEDULES OR ELEVATIONS.

CEILINGS
1. ALL HARD-LID CEILINGS AND SOFFITS TO BE PAINTED, U.N.O.
2. CENTER LIGHT FIXTURES WITHIN SPACES UNLESS NOTED OTHERWISE

CORNER GUARDS
1. ALL OUTSIDE WALL CORNERS TO HAVE CG-1, U.N.O.

DOORS/ WINDOWS
1. REFER TO DOOR, WINDOW, AND STOREFRONT SCHEDULE FOR MATERIALS AND FINISHES.
2. ALL DOOR FRAMES TO MATCH DOOR, U.N.O.

CASEWORK
1. REFER TO INTERIOR ELEVATIONS FOR CASEWORK AWS CALLOUTS AND MATERIALS.

MISCELLANEOUS
1. ALL MULTI-USER RESTROOMS TO USE TP-1 PARTITIONS AND URINAL SCREENS, U.N.O.

FLOOR TRANSITIONS

1. SEE DETAIL XX FOR TRANSITIONS BETWEEN FLOOR MATERIALS
2. ALL TRANSITIONS OCCURRING UNDER DOORS TO BE CENTERED UNDER DOOR, U.N.O.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125726 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/28/2026

SGPA
ARCHITECTURE AND PLANNING
3111 CAMINO DEL RIO NORTH,
STUDIO 500
SAN DIEGO, CA 92108
619.297.0131
WWW.SGPA.COM

LICENSED ARCHITECT
LORRAINE B. NAGEL
No. C34108
RENEW AUG 31 '27
STATE OF CALIFORNIA

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KERN HIGH SCHOOL DISTRICT
5801 SUNDALE AVE.
BAKERSFIELD, CA 93309

CENTRAL VALLEY HIGH SCHOOL
CONTINUATION HIGH SCHOOL CAMPUS
526 MANNEL AVENUE
SHAFTER, CA 93263

DRAWING SUBMITTAL SCHEDULE

	100% DD SET	07/08/2025
	50% CONSTRUCTION DOCUMENTS	10/10/2025
	100% CONSTRUCTION DOCUMENTS	11/21/2025
	DWG V3	04/28/2026

PROJECT NO: 22434-E-02

FINISH SCHEDULE GENERAL NOTES

A-530

Autodesk Docs://KHSD- Central Valley Continuation HS/22434- Central Valley CHS- R23.rvt
4/22/2026 4:13:44 PM

FINISH LEGEND

FLOOR FINISHES

- CPT-01: DESCRIPTION: CARPET TILE
  MANUFACTURER: MOHAWK
  STYLE/PATTERN: CREATIVE CULTURE - 24" x 24"
  COLOR: PUMICE
  REMARKS: STRAIGHT
- CS-01: DESCRIPTION: PENETRATING CONCRETE SEALER
  MANUFACTURER: CURECRETE
  STYLE/PATTERN: LOW SHEEN
  COLOR: CLEAR
- CS-02: DESCRIPTION: GRIT-INFUSED SEALER
  MANUFACTURER: CROWN POLYMERS
  STYLE/PATTERN: 8100 CROWNCOTE HP
  COLOR: CLEAR
- LVT-01: DESCRIPTION: LUXURY VINYL TILE
  MANUFACTURER: MOHAWK
  STYLE/PATTERN: MOLVENO WOODS - 7" x 59"
  COLOR: GINGER ROOT
- CONC: DESCRIPTION: UNFINISHED EXPOSED CONCRETE

WALL BASE

- WB-1A: DESCRIPTION: RESILIENT BASE
  MANUFACTURER: BURKE
  STYLE/PATTERN: STRAIGHT - 4"
  COLOR: 168 BLUISH WHITE
- WB-2A: DESCRIPTION: RESILIENT BASE
  MANUFACTURER: BURKE
  STYLE/PATTERN: COVE - 4"
  COLOR: 246 KHAKI GREEN
- WB-3A: DESCRIPTION: RESILIENT BASE
  MANUFACTURER: BURKE
  STYLE/PATTERN: STRAIGHT - 4"
  COLOR: 519 BAJA
- WB-1B: DESCRIPTION: RESILIENT BASE
  MANUFACTURER: SCHLUTER SYSTEMS
  STYLE/PATTERN: 3/8" RADIUSED COVE
  COLOR: STONE GREY
  REMARKS: TBD

PAINT (EXTERIOR)

- EPT-01: DESCRIPTION: PAINT - AWNING AND COLUMNS
  MANUFACTURER: DUNN EDWARDS
  COLOR: DET521 ARIZONA TREE FROG
- EPT-02: DESCRIPTION: PAINT - DOOR AND WINDOW TRIM
  MANUFACTURER: DUNN EDWARDS
  COLOR: DE6328 ANCHOR GRAY

PAINT (INTERIOR)

- PT-01: DESCRIPTION: PAINT - FIELD COLOR
  MANUFACTURER: DUNN EDWARDS
  COLOR: DET647 TRADE WINDS
- PT-02: DESCRIPTION: PAINT - ACCENT COLOR
  MANUFACTURER: DUNN EDWARDS
  COLOR: DE5570 GARDENING
- PT-03: DESCRIPTION: PAINT - ACCENT COLOR
  MANUFACTURER: DUNN EDWARDS
  COLOR: DE5430 BEACH HOUSE

WALL FINISHES

- R-01: DESCRIPTION: STANDING SEAM METAL ROOF
  MANUFACTURER: METAL SALES
  STYLE/PATTERN: VERTICAL SEAM - FLAT
  COLOR: SLATE GRAY
- BB-01: DESCRIPTION: BOARD AND BATTEN
  MANUFACTURER: JAMES HARDIE
  STYLE/PATTERN: HARDIE TRIM BATTEN BOARD
  COLOR: ARCTIC WHITE SMOOTH GRAIN
- SD-01: DESCRIPTION: SIDING
  MANUFACTURER: JAMES HARDIE
  STYLE/PATTERN: HARDIE ARTISAN SIDING
  COLOR: GRAY SLATE
- MP-01: DESCRIPTION: METAL PANEL
  MANUFACTURER: METAL SALES
  STYLE/PATTERN: METAL WALL PANELS
- FP-01: DESCRIPTION: FELT WALL PANEL
  MANUFACTURER: ACOUFELT
  STYLE/PATTERN: FRACTURE TWO TONE BARCODE
  COLOR: TH28 THITLE
- FRP-01: DESCRIPTION: PLASTIC WALL PANEL
  MANUFACTURER: MARLITE
  STYLE/PATTERN: PEBBLED FRP
  COLOR: SILVER

CERAMIC TILE

- CT-01: DESCRIPTION: CERAMIC TILE - WALLS
  MANUFACTURER: DALTILE
  STYLE/PATTERN: COLOR WHEEL CLASSIC - 3" x 6"
  COLOR: ALMOND
  REMARKS: GROUT: MAPEI 5103 COBBLESTONE
- CT-02: DESCRIPTION: CERAMIC TILE - WALLS
  MANUFACTURER: DALTILE
  STYLE/PATTERN: COLOR WHEEL CLASSIC - 3" x 6"
  COLOR: GARDEN SPOT
  REMARKS: GROUT: MAPEI 5103 COBBLESTONE
- CT-03: DESCRIPTION: CERAMIC TILE - WALLS
  MANUFACTURER: DALTILE
  STYLE/PATTERN: COLOR WHEEL CLASSIC - 3" x 6"
  COLOR: EMERALD
  REMARKS: GROUT: MAPEI 5103 COBBLESTONE
- CT-04: DESCRIPTION: CERAMIC TILE - WALLS
  MANUFACTURER: DALTILE
  STYLE/PATTERN: COLOR WHEEL CLASSIC - 3" x 6"
  COLOR: KEY LIME
  REMARKS: GROUT: MAPEI 5103 COBBLESTONE
- CT-05: DESCRIPTION: CERAMIC TILE - FLOORS
  MANUFACTURER: DALTILE
  STYLE/PATTERN: KEYSTONES - 2" x 2"
  COLOR: ALMOND BLEND
  REMARKS: GROUT: MAPEI 5103 COBBLESTONE

CASEWORK

- WV-01: DESCRIPTION: CUSTOM WOOD VENEER IN ALL STUDENT AREAS AND CLASSROOMS
  STYLE/PATTERN: TYPE 1, STYLE A, PRE-FINISHED
  COLOR: WHITE BIRCH
  REMARKS: W.I. CUSTOM GRADE, PREMIUM GRADE AND LABORATORY AT SPECIFIED AREAS
- SS-01: DESCRIPTION: SOLID SURFACE COUNTERTOP AT LOBBY AND ADMIN AREAS
  MANUFACTURER: WILSONART
  STYLE/PATTERN: BASALT CONCRETE
- PL-01: DESCRIPTION: PLASTIC LAMINATE IN STAFF AREAS
  MANUFACTURER: WILSONART
  STYLE/PATTERN: 8262 HARRISON ELM
- PL-02: DESCRIPTION: LAMINATE COUNTERTOP AT DEMONSTRATION TABLE IN SCIENCE CLASSROOM
  MANUFACTURER: FORMICA
  STYLE/PATTERN: TRESPA TOPLAB PLUS ALIGN
  COLOR: VP122 SLATE GREY
- PL-03: DESCRIPTION: PLASTIC LAMINATE IN STAFF AND STUDENT AREAS
  MANUFACTURER: FORMICA
  STYLE/PATTERN: ANTIMICROBIAL COLLECTION
  COLOR: 912A STORM

CEILING

- ACT-01: DESCRIPTION: ACOUSTICAL TILE - SUSPENDED T-BAR
  MANUFACTURER: ARMSTRONG
  STYLE/PATTERN: CORTEGA TEGULAR - 24"x24" AND 24"x48"
  COLOR: WHITE
- ACT-02: DESCRIPTION: ACT - SUSPENDED T-BAR
  MANUFACTURER: ARMSTRONG
  STYLE/PATTERN: CORTEGA TEGULAR - 24"x24" AND 24"x48"
  COLOR: WHITE
  REMARKS: MOISTURE-RESISTANT GYPSUM BOARD
- GB-01: DESCRIPTION: HARDLID - GYPSUM BOARD
  MANUFACTURER: REFER TO SPECIFICATIONS
  COLOR: SEE FINISH SCHEDULE

MISCELLANEOUS

- CMU-01: DESCRIPTION: CONCRETE MASONRY UNIT
  MANUFACTURER: ORCO
  STYLE/PATTERN: SHOT BLAST, SQUARE
  COLOR: NATURAL GRAY MW
  REMARKS: SPECIFICATION 04 22 00
  GROUT COLOR: GRAY

FINISH SCHEDULE - BUILDING 100

NO.	ROOM NAME	FLOOR	BASE	WALLS				WAINSCOT		CEILING		REMARKS
				NORTH	EAST	SOUTH	WEST	MAT.	HEIGHT	MAT.	FINISH	
100	LOBBY	CS-01	WB-1A	PT-02	PT-01	PT-01	PT-03			ACT-01		WB-2A AT NORTH WALL, WB-3A AT WEST WALL
100A	CORRIDOR	CS-01	WB-1A	PT-01	PT-01	PT-01	PT-01			ACT-01		
100B	CORRIDOR	CS-01	WB-1A	PT-01	PT-01	PT-01	PT-01			ACT-01		
100C	CORRIDOR	CS-01	WB-1A	PT-01	PT-01	PT-01	PT-01			ACT-01		
101	SOCIAL WORKER OFFICE	CPT-01	WB-1A	PT-01	PT-01	PT-01	PT-01			ACT-01		
102	INTERVENTION SPECIALIST OFFICE	CPT-01	WB-1A	PT-01	PT-01	PT-01	PT-01			ACT-01		
103	SUBSTANCE ABUSE SPECIALIST OFFICE	CPT-01	WB-1A	PT-01	PT-01	PT-01	PT-01			ACT-01		
104	OPEN OFFICE	CPT-01	WB-1A	PT-01	PT-01	PT-01	PT-01			ACT-01		
105	SECURITY / COMMUNITY SPECIALIST OFFICE	CPT-01	WB-1A	PT-01	PT-01	PT-01	PT-01			ACT-01		
106	PARENT CENTER / CONFERENCE	CPT-01	WB-1A	PT-02	PT-01	PT-01	PT-01			ACT-01		WB-2A AT NORTH WALL ONLY
107	ON CAMPUS INTERVENTION OFFICE	CPT-01	WB-1A	PT-01	PT-01	PT-01	PT-01			ACT-01		
108	STAFF RESTROOM	CT-05	CT-03	PT-01	PT-01	PT-01	PT-01	CT-01	7'-0"	GB-01	PT-01	CT-01, CT-02, CT-03, AND CT-04 WAINSCOT AT WEST WALL ONLY
109	SITE ADMINISTATOR'S OFFICE	CPT-01	WB-1A	PT-01	PT-02	PT-01	PT-01			ACT-01		WB-2A AT EAST WALL ONLY
110	COUNSELOR'S OFFICE	CPT-01	WB-1A	PT-01	PT-01	PT-01	PT-01			ACT-01		
110	HEALTH OFFICE	CPT-01	WB-1A	PT-01	PT-01	PT-01	PT-01			ACT-01		
111	SPECIAL ED. INST. OFFICE	CPT-01	WB-1A	PT-01	PT-01	PT-01	PT-01			ACT-01		
112	STAFF LOUNGE	CS-01	WB-1A	PT-02	PT-01	PT-01	PT-01			ACT-01		WB-2A AT NORTH WALL ONLY, CT-02 BACKSPLASH AT EAST WALL COUNTERTOP ONLY
113	LACTATION ROOM	CPT-01	WB-1A	PT-01	PT-01	PT-01	PT-01			ACT-01		
114	RECORDS ROOM	CPT-01	WB-1A	PT-01	PT-01	PT-01	PT-01			ACT-01		
115	STAFF RESTROOM	CT-05	CT-03	PT-01	PT-01	PT-01	PT-01	CT-01	7'-0"	GB-01	PT-01	CT-01, CT-02, CT-03, AND CT-04 WAINSCOT AT NORTH WALL ONLY
116	HEALTH OFFICE	CS-01	WB-1A	PT-01	PT-01	PT-01	PT-01			ACT-01		
117	HEALTH OFFICE RESTROOM	CT-05	CT-03	PT-01	PT-01	PT-01	PT-01	CT-01	7'-0"	GB-01	PT-01	CT-01, CT-02, CT-03, AND CT-04 WAINSCOT AT SOUTH WALL ONLY
119	PAXTON PATTERSON LAB	CS-01	WB-1A	PT-01	PT-03	PT-01	PT-01			ACT-01		WB-3A AT EAST WALL ONLY
120	ART CLASSROOM	CS-01	WB-1A	PT-01	PT-03	PT-01	PT-01			ACT-01		WB-3A AT EAST WALL ONLY
121	SCIENCE CLASSROOM	CS-01	WB-1A	PT-01	PT-03	PT-01	PT-01			ACT-01		WB-3A AT EAST WALL ONLY
122	STORAGE	CS-01	WB-1A	PT-01	PT-01	PT-01	PT-01			ACT-01		
123	STORAGE	CPT-01	WB-1A	PT-01	PT-01	PT-01	PT-01			ACT-01		
124	COMPUTER LAB	CPT-01	WB-1A	PT-01	PT-03	PT-01	PT-01			ACT-01		WB-3A AT EAST WALL ONLY
125	CLASSROOM	CPT-01	WB-1A	PT-01	PT-03	PT-01	PT-01			ACT-01		
130	CUSTODIAL	CS-01	WB-1A	FRP-01	FRP-01	FRP-01	FRP-01			GB-01	PT-01	
131	IDF	CONC	WB-1A	PT-01	PT-01	PT-01	PT-01					
132	ELECTRICAL ROOM	CONC	WB-1A	PT-01	PT-01	PT-01	PT-01					

FINISH SCHEDULE - BUILDING 200

NO.	ROOM NAME	FLOOR	BASE	WALLS				WAINSCOT		CEILING		REMARKS
				NORTH	EAST	SOUTH	WEST	MAT.	HEIGHT	MAT.	FINISH	
201	CAFETERIA	CS-01	WB-1A	PT-01	PT-02	PT-01	PT-01			ACT-01		
202	SERVING/PAY	CS-01	WB-1A	PT-01	PT-01	PT-01	PT-02			ACT-01		
203	KITCHEN	CS-02	WB-1A	PT-01	PT-01	PT-01	PT-01			ACT-02		
204	UNISEX	CT-05	CT-03	PT-01	PT-01	PT-01	PT-01	CT-01	7'-0"	GB-01	PT-01	CT-01, CT-02, CT-03, AND CT-04 WAINSCOT AT NORTH WALL ONLY
205	CUSTODIAL	CONC	WB-1A	FRP-01	FRP-01	FRP-01	FRP-01			GB-01	PT-01	
206	UNISEX	CT-05	CT-03	PT-01	PT-01	PT-01	PT-01	CT-01	7'-0"	GB-01	PT-01	CT-01, CT-02, CT-03, AND CT-04 WAINSCOT AT NORTH WALL ONLY
207	GIRLS	CT-05	CT-03	PT-01	PT-01	PT-01	PT-01	CT-01	7'-0"	GB-01	PT-01	CT-01, CT-02, CT-03, AND CT-04 WAINSCOT AT WEST WALL ONLY
208	BOYS	CT-05	CT-03	PT-01	PT-01	PT-01	PT-01	CT-01	7'-0"	GB-01	PT-01	CT-01, CT-02, CT-03, AND CT-04 WAINSCOT AT EAST WALL ONLY
209	CLASSROOM	CPT-01	WB-1A	PT-01	PT-03	PT-01	PT-04			ACT-01		WB-3A AT EAST WALL, WB-4A AT WEST WALL
210	CLASSROOM	CPT-01	WB-1A	PT-01	PT-03	PT-01	PT-04			ACT-01		WB-3A AT EAST WALL, WB-4A AT WEST WALL
211	MEDIA RESOURCE CENTER	CPT-01	WB-1A	PT-01	PT-03	PT-01	PT-04			ACT-01		WB-3A AT EAST WALL, WB-4A AT WEST WALL
212	MDF ROOM	CONC	WB-1A	PT-01	PT-01	PT-01	PT-01					
213	ELECTRICAL ROOM	CONC	WB-1A	PT-01	PT-01	PT-01	PT-01					

LEGEND

ACP-1	2'-0"x2'-0" ACOUSTICAL PANELS - 09 51 13
CBU	CEMENTITIOUS BACKER UNIT (1/2" THICK)
CPT-1	CARPET - TYPE 1
CPT-2	CARPET - TYPE 2
CS-1	PENETRATING CONCRETE SEALER - CLEAR - 03 35 43
CS-2	GRIT INFUSED SEALER - 03 35 43
CONC	EXPOSED CONCRETE
CT-A	CERAMIC TILE - 3 x 6 WALL FIELD - 09 30 13
CT-B	CERAMIC TILE - 3 x 6 WALL ACCENT - 09 30 13
CHN-LNK	CHAIN LINK FENCING - 32 31 13
ESF	EPOXY SEAMLESS FLOORING - 09 96 56
EXP	EXPOSED STRUCTURE
FF	FACTORY FINISH
GB	GYPSUM BOARD - 09 29 00
GBX	GYPSUM BOARD, FIRE RATED - 09 29 00
GBMR	GYPSUM BOARD, MOISTURE RESISTANT - 09 29 00
GBMRX	GYPSUM BOARD, FIRE RATED, MOISTURE RESISTANT - 09 29 00
MAS	MASONRY - 04 20 00
PF-1	PAINT - SEMI-GLOSS - 09 90 00
PF-2	PAINT - EGGSHELL - 09 90 00
PF-3	PAINT - SEMI-GLOSS ENAMEL - 09 90 00
PF-4	PAINT - FERROUS METAL PIPING, MISC METALS - 09 90 00
PF-5	PAINT - GALVANIZED DUCTWORK, ELECT CONDUIT - 09 90 00
PF-6	PAINT - EPOXY - 09 90 00
PFX-1	PAINT - STEEL DOORS & FRAMES - 09 90 00
PFX-2	PAINT - HIGH PERFORMANCE COATING - 09 90 00
PFX-3	PAINT - FERROUS METAL PIPING, MISC METALS - 09 90 00
PFX-4	PAINT - FLAT FINISH ACRYLIC - 09 90 00
FRP	PLASTIC PANELING - 06 64 00
WB-A	4" RESILIANT BASE - 09 65 00
RTF-1	RESILIANT TILE FLOORING - 09 65 00
UNF	UNFINISHED
VCTBD-1	VINYL COVERED TACKABLE WALL PANEL - 09 72 00
VCTBD-2	VINYL COVERED TACKABLE WALL PANEL - 09 72 00

INTERIOR PAINT COLORS

PT-1	DUNN EDWARDS DET647 TRADE WINDS
PT-2	DUNN EDWARDS DE5570 GARDENING
PT-3	DUNN EDWARDS DE5430 BEACH HOUSE

EXTERIOR PAINT COLORS

EPT-1	DUNN EDWARDS DET521 ARIZONA TREE FROG
EPT-2	DUNN EDWARDS DE6328 ANCHOR GRAY

FINISH REMARKS

1. SEE ENLARGED PLANS / INTERIOR ELEVATIONS FOR INFORMATION REGARDING TILE PATTERN AT FLOORS AND WALLS
2. PAINT ALL EXPOSED STRUCTURAL STEEL, METAL DECK, DUCTWORK AND ELECTRICAL COMPONENETS - 09 90 13 AND 09 91 23
3. PROVIDE WINDOW COVERINGS (TYPE 1) AT ALL WINDOWS THIS ROOM - 12 20 00
4. FOR DIAGONALLY ORIENTED ROOMS, NORTHWEST WALL IS ASSUMED AS NORTH WALL
5. INSTALL ROOM IDENTIFICATION SIGNAGE RS-1 - SPEC. SECTION 10 14 23. FOR MOUNTING HEIGHT, SEE DETAIL 30 / A-801.
6. INSTALL ROOM OCCUPANCY SIGNAGE SS-5, SPEC. SECTION 10 14 23.
7. TOILET ROOM SYMBOLS - SPEC SECTION 10 14 23. FOR MOUNTING HEIGHT, SEE DETAIL 28 / A-801.

GENERAL NOTES

1. SEE DETAIL 4 / A-822 FOR TRANSITIONS BETWEEN FLOOR MATERIALS. ALL TRANSITIONS OCCURRING UNDER DOORS TO BE CENTERED UNDER DOOR, U.N.O.
2. ALL FINISHES SHALL COMPLY WITH C.B.C. CHAPTER 8 AND WITH TITLE 19 C.C.R. & C.F.C.
3. CENTER LIGHT FIXTURES WITHIN SPACES UNLESS NOTED OTHERWISE

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CENTRAL VALLEY HIGH SCHOOL
CONTINUATION HIGH SCHOOL CAMPUS
526 MANNEL AVENUE
SHAFTER, CA 93263

DRAWING SUBMITTAL SCHEDULE

	100% DD SET	07/08/2025
	50% CONSTRUCTION DOCUMENTS	10/10/2025
	100% CONSTRUCTION DOCUMENTS	11/21/2025
	DWG V2	02/27/2026
	DWG V3	04/28/2026

PROJECT NO:22434-E-02

FINISH SCHEDULES

A-531

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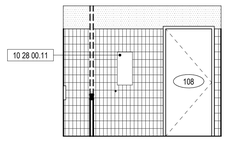

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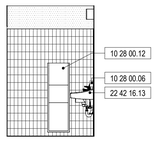

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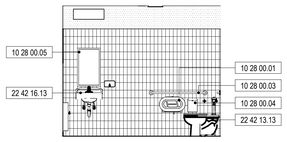

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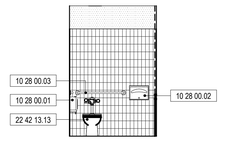

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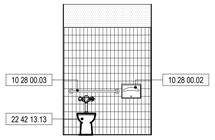

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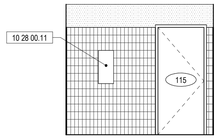

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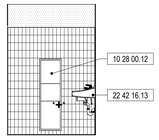

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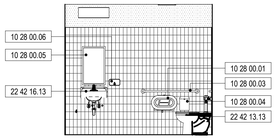

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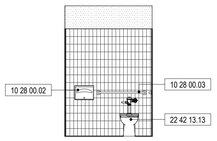
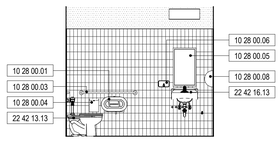


HEALTH OFFICE RESTROOM 117 - WEST SCALE: 1/4" = 1'-0" 4



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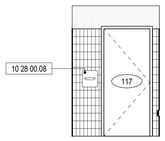

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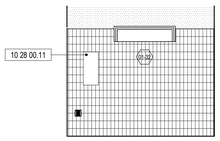

HEALTH OFFICE RESTROOM 117 - SOUTH SCALE: 1/4" = 1'-0" 1

LEGEND

FINISH TAGS - SEE SHEET A-530:

XXXX WALL FINISH

XXXX WALL BASE

XXXX CASEWORK OR MISCELLANEOUS

GENERAL NOTES

1. REFER TO FLOOR PLANS FOR FINISH FLOOR HEIGHT.
2. FOR MOUNTING HEIGHTS OF TOILET ROOM ACCESSORIES, SEE DETAIL 11/A-801

KEYNOTES

10 28 00.01	TOILET TISSUE DISPENSER
10 28 00.02	SEAT COVER DISPENSER
10 28 00.03	GRAB BARS; REFER TO DETAIL 11/A-801 FOR INSTALLATION DIMENSIONS NOT SHOWN ON PLANS OR ELEVATIONS
10 28 00.04	SANITARY NAPKIN DISPOSAL UNIT, SURFACE-MOUNTED
10 28 00.05	18X30 MIRROR
10 28 00.06	SOAP DISPENSER
10 28 00.08	WARM-AIR HAND DRYER, 4" MAX PROJECTION; REFER TO ELECTRICAL FOR POWER REQUIREMENTS
10 28 00.11	FEMININE PRODUCT DISPENSER
10 28 00.12	PAPER TOWEL DISPENSER AND WASTE RECEPTACLE
22 42 13.13	FLOOR-MOUNTED COMMERCIAL WATER CLOSET
22 42 16.13	WALL-HUNG COMMERCIAL LAVATORY; REFER TO PLUMBING; PROVIDE UNDER-LAVATORY GUARD AT EXPOSED PIPES. CLEARANCES PER 17/A-801.

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	100% CONSTRUCTION DOCUMENTS	11/21/2025
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	DWG V3	04/28/2026

PROJECT NO: 22434-E-02

INTERIOR ELEVATIONS - BUILDING 100 RESTROOMS

A-710

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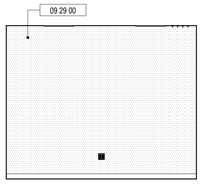
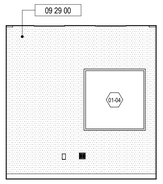


OPEN OFFICE 104 - NORTH SCALE: 1/4" = 1'-0" 22



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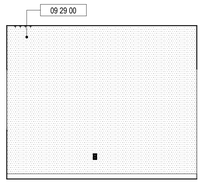

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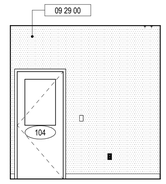

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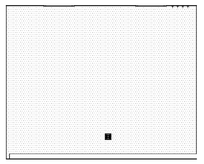
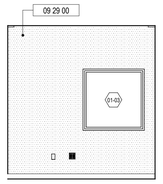


SUBSTANCE ABUSE SPECIALIST OFFICE 103 - NORTH SCALE: 1/4" = 1'-0" 18



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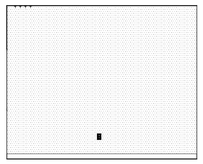

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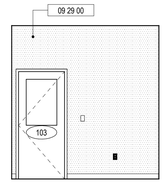

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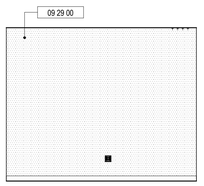
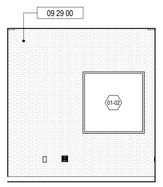


INTERVENTION SPECIALIST OFFICE 102 - NORTH SCALE: 1/4" = 1'-0" 14



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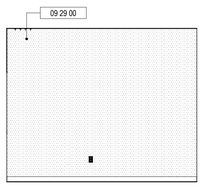

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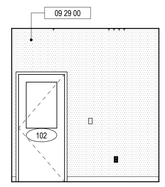
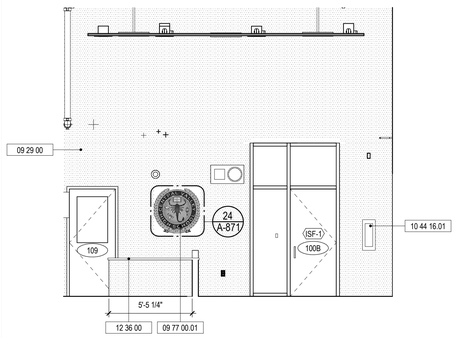
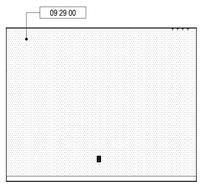


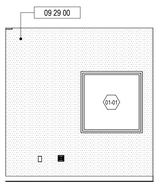
INTERVENTION SPECIALIST OFFICE 102 - WEST SCALE: 1/4" = 1'-0" 11



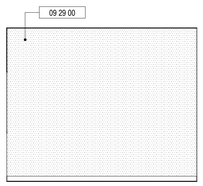
LOBBY 100 NORTH SCALE: 1/4" = 1'-0" 10



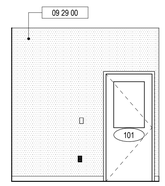
SOCIAL WORKER OFFICE 101 - NORTH SCALE: 1/4" = 1'-0" 9



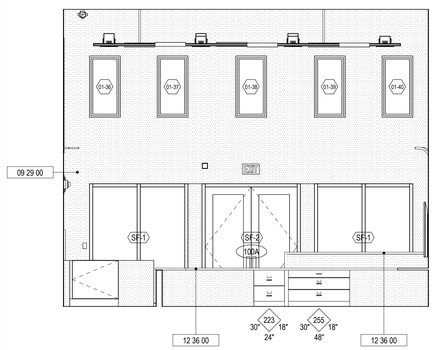
SOCIAL WORKER OFFICE 101 - EAST SCALE: 1/4" = 1'-0" 8



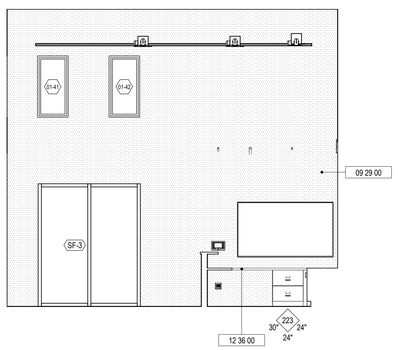
SOCIAL WORKER OFFICE 101 - SOUTH SCALE: 1/4" = 1'-0" 7



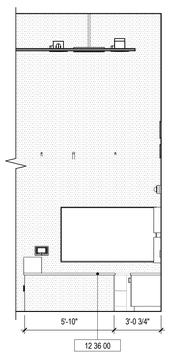
SOCIAL WORKER OFFICE 101 - WEST SCALE: 1/4" = 1'-0" 6



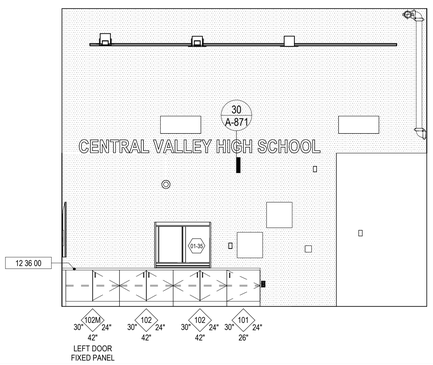
LOBBY 100 EAST SCALE: 1/4" = 1'-0" 5



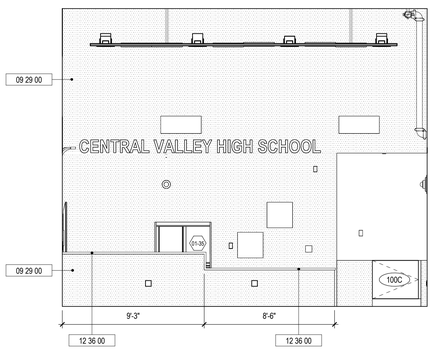
LOBBY 100 SOUTH SCALE: 1/4" = 1'-0" 4



LOBBY 100 SOUTH SCALE: 1/4" = 1'-0" 3



LOBBY 100 WEST SCALE: 1/4" = 1'-0" 2



LOBBY 100 WEST SCALE: 1/4" = 1'-0" 1

LEGEND

FINISH TAGS - SEE SHEET A-530:

XXXX WALL FINISH

XXXX WALL BASE

XXXX CASEWORK OR MISCELLANEOUS

GENERAL NOTES

1. REFER TO FLOOR PLANS FOR FINISH FLOOR HEIGHT.
2. FOR MOUNTING HEIGHTS OF TOILET ROOM ACCESSORIES, SEE DETAIL 11/A-801

KEYNOTES

09 29 00	GYPSUM BOARD
09 77 00.01	3M ENVISION PRINT WALL WRAP - LX480mC, 2-MIL, NON-PVC FILM WITH 3M ENVISION WRAP OVERLAMINATE - 8549L, LUSTER FINISH
10 44 16.01	DLDRECESSED FIRE EXTINGUISHER CABINET. MOUNTED PER DETAIL 7/A-822
12 36 00	COUNTERTOPS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125726 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/28/2026

SGPA
ARCHITECTURE AND PLANNING
3111 CAMINO DEL RIO NORTH,
STUDIO 500
SAN DIEGO, CA 92108
619.297.0131
WWW.SGPA.COM

LICENSED ARCHITECT
SHERMANE B. MAU
NO. C34108
REN. AUG 31, 27
STATE OF CALIFORNIA

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KERN HIGH SCHOOL DISTRICT
5801 SUNDALE AVE.
BAKERSFIELD, CA 93309

CENTRAL VALLEY HIGH SCHOOL

CONTINUATION HIGH SCHOOL CAMPUS
526 MANNEL AVENUE
SHAFTER, CA 93263

DRAWING SUBMITTAL SCHEDULE

	50% CONSTRUCTION DOCUMENTS	10/10/2025
	100% CONSTRUCTION DOCUMENTS	11/21/2025
	DWG V2	02/27/2026
	DWG V3	04/28/2026

PROJECT NO:22434-E-02

INTERIOR ELEVATIONS - BUILDING 100

A-711

Autodesk Docs://KHSD - Central Valley Continuation HS/22434 Central Valley CHS_R23.rvt
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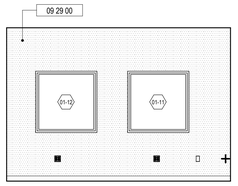
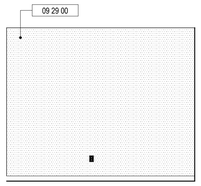
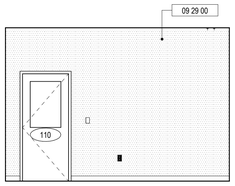


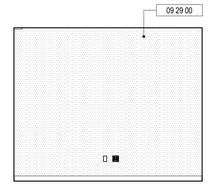
COUNSELOR'S OFFICE 110 - NORTH SCALE: 1/4" = 1'-0" 20



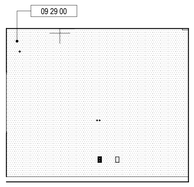
COUNSELOR'S OFFICE 110 - EAST SCALE: 1/4" = 1'-0" 19



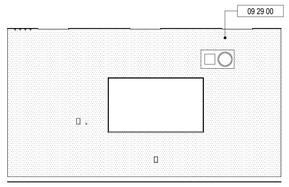
COUNSELOR'S OFFICE 110 - SOUTH SCALE: 1/4" = 1'-0" 18



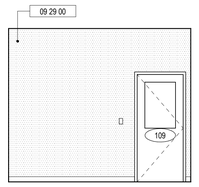
COUNSELOR'S OFFICE 110 - WEST SCALE: 1/4" = 1'-0" 17



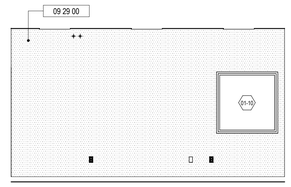
SITE ADMINISTATOR'S OFFICE 109 - NORTH SCALE: 1/4" = 1'-0" 16



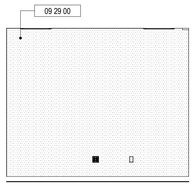
SITE ADMINISTATOR'S OFFICE 109 - EAST SCALE: 1/4" = 1'-0" 15



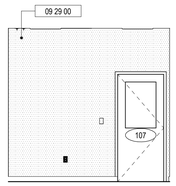
SITE ADMINISTATOR'S OFFICE 109 - SOUTH SCALE: 1/4" = 1'-0" 14



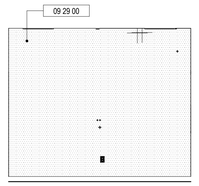
SITE ADMINISTATOR'S OFFICE 109 - WEST SCALE: 1/4" = 1'-0" 13



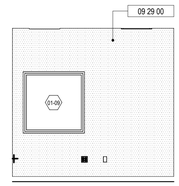
ON CAMPUS INTERVENTION OFFICE 107 - NORTH SCALE: 1/4" = 1'-0" 12



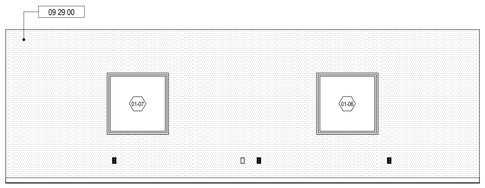
ON CAMPUS INTERVENTION OFFICE 107 - EAST SCALE: 1/4" = 1'-0" 11



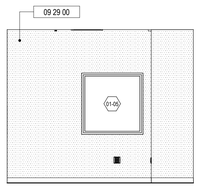
ON CAMPUS INTERVENTION OFFICE OFFICE 107 - SOUTH SCALE: 1/4" = 1'-0" 10



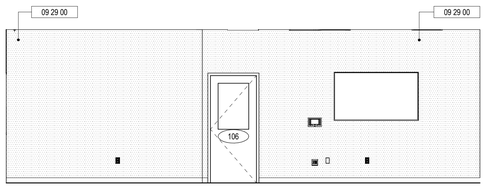
ON CAMPUS INTERVENTION OFFICE 107 - WEST SCALE: 1/4" = 1'-0" 9



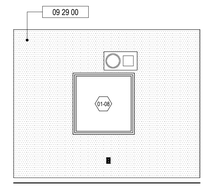
PARENT CENTER / CONFERENCE 106 - NORTH SCALE: 1/4" = 1'-0" 8



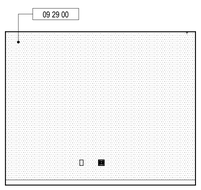
PARENT CENTER / CONFERENCE 106 - EAST SCALE: 1/4" = 1'-0" 7



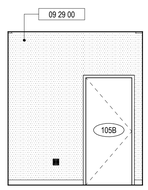
PARENT CENTER / CONFERENCE 106 - SOUTH SCALE: 1/4" = 1'-0" 6



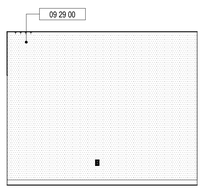
PARENT CENTER / CONFERENCE 106 - WEST SCALE: 1/4" = 1'-0" 5



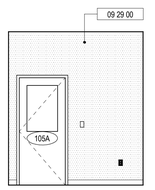
SECURITY / COMMUNITY SPECIALIST OFFICE 105 - NORTH SCALE: 1/4" = 1'-0" 4



SECURITY / COMMUNITY SPECIALIST OFFICE 105 - EAST SCALE: 1/4" = 1'-0" 3



SECURITY / COMMUNITY SPECIALIST OFFICE 105 - SOUTH SCALE: 1/4" = 1'-0" 2



SECURITY / COMMUNITY SPECIALIST OFFICE 105 - WEST SCALE: 1/4" = 1'-0" 1

LEGEND

FINISH TAGS - SEE SHEET A-530:

XXXX WALL FINISH

XXXX WALL BASE

XXXX CASEWORK OR MISCELLANEOUS

GENERAL NOTES

1. REFER TO FLOOR PLANS FOR FINISH FLOOR HEIGHT.
2. FOR MOUNTING HEIGHTS OF TOILET ROOM ACCESSORIES, SEE DETAIL 11/A-801

KEYNOTES

09 29 00 GYPSUM BOARD

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125726 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/28/2026

SGPA
ARCHITECTURE AND PLANNING
3111 CAMINO DEL RIO NORTH,
STUDIO 500
SAN DIEGO, CA 92108
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LICENSED ARCHITECT
STEPHANIE B. MAY
No. C34108
REN. AUG 31, 27
STATE OF CALIFORNIA

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KERN HIGH SCHOOL DISTRICT
5801 SUNDALE AVE.
BAKERSFIELD, CA 93309

CENTRAL VALLEY HIGH SCHOOL
CONTINUATION HIGH SCHOOL CAMPUS
526 MANNEL AVENUE
SHAFTER, CA 93263

DRAWING SUBMITTAL SCHEDULE

	50% CONSTRUCTION DOCUMENTS	10/10/2025
	100% CONSTRUCTION DOCUMENTS	11/21/2025
	DWG V3	04/28/2026

PROJECT NO:22434-E-02

INTERIOR ELEVATIONS - BUILDING 100

A-712

Autodesk Docs://KHSD - Central Valley Continuation HS/22434 Central Valley CHS_R23.rvt
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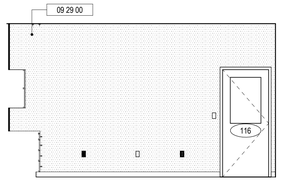
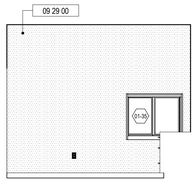
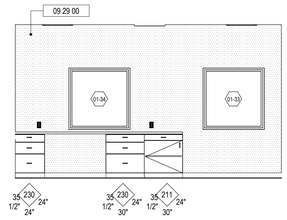


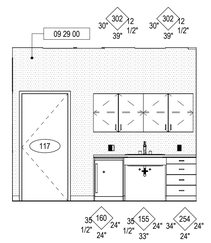
HEALTH OFFICE 116 - NORTH SCALE: 1/4" = 1'-0" 18



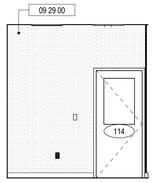
HEALTH OFFICE 116 - EAST SCALE: 1/4" = 1'-0" 17



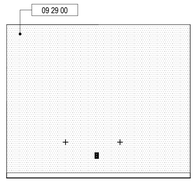
HEALTH OFFICE 116 - SOUTH SCALE: 1/4" = 1'-0" 16



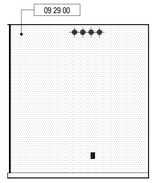
HEALTH OFFICE 116 - WEST SCALE: 1/4" = 1'-0" 15



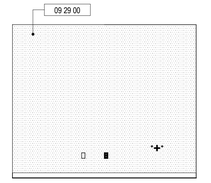
RECORDS ROOM 114 - NORTH SCALE: 1/4" = 1'-0" 14



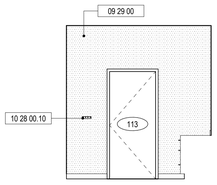
RECORDS ROOM 114 - EAST SCALE: 1/4" = 1'-0" 13



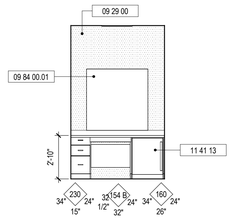
RECORDS ROOM 114 - SOUTH SCALE: 1/4" = 1'-0" 12



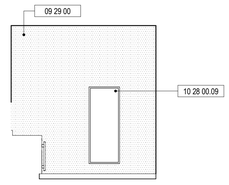
RECORDS ROOM 114 - WEST SCALE: 1/4" = 1'-0" 11



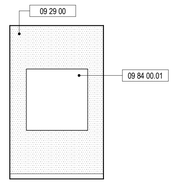
LACTATION ROOM 113 - NORTH SCALE: 1/4" = 1'-0" 10



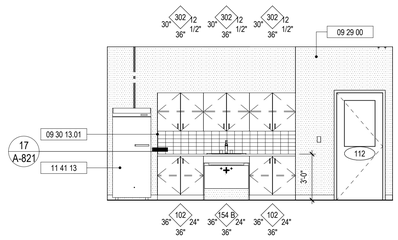
LACTATION ROOM 113 - EAST SCALE: 1/4" = 1'-0" 9



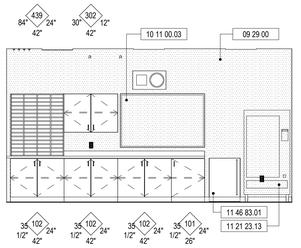
LACTATION ROOM 113 - SOUTH SCALE: 1/4" = 1'-0" 8



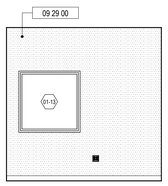
LACTATION ROOM 113 - WEST SCALE: 1/4" = 1'-0" 7



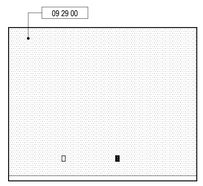
STAFF LOUNGE 112 - EAST SCALE: 1/4" = 1'-0" 6



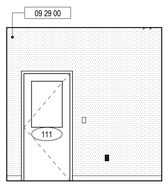
STAFF LOUNGE 112 - WEST SCALE: 1/4" = 1'-0" 5



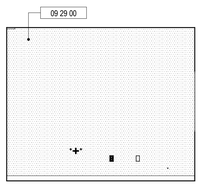
SPECIAL ED. INST. OFFICE 111 - NORTH SCALE: 1/4" = 1'-0" 4



SPECIAL ED. INST. OFFICE 111 - EAST SCALE: 1/4" = 1'-0" 3



SPECIAL ED. INST. OFFICE 111 - SOUTH SCALE: 1/4" = 1'-0" 2



SPECIAL ED. INST. OFFICE 111 - WEST SCALE: 1/4" = 1'-0" 1

LEGEND

FINISH TAGS - SEE SHEET A-530:

XXXX WALL FINISH

XXXX WALL BASE

XXXX CASEWORK OR MISCELLANEOUS

GENERAL NOTES

1. REFER TO FLOOR PLANS FOR FINISH FLOOR HEIGHT.
2. FOR MOUNTING HEIGHTS OF TOILET ROOM ACCESSORIES, SEE DETAIL 11/A-801

KEYNOTES

09 29 00	GYPSUM BOARD
09 30 13.01	METAL EDGE STRIP AT TILE TRANSITION
09 84 00.01	FABRIC-COVERED ACOUSTICAL PANELS
10 11 00.03	TACKBOARD
10 28 00.09	FULL-LENGTH MIRROR
10 28 00.10	WALL HOOK
11 21 23.13	MERCHANDISE VENDING MACHINE, O.F.O.I.
11 41 13	REFRIGERATED FOOD STORAGE CASES, O.F.O.I.
11 46 83.01	FLOOR-MOUNTED ICE MACHINE, O.F.O.I.

IDENTIFICATION STAMP
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DATE: 04/28/2026

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STEPHANIE B. MAY
No. C34108
REN. AUG 31, 27
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CENTRAL VALLEY HIGH SCHOOL
CONTINUATION HIGH SCHOOL CAMPUS
526 MANNEL AVENUE
SHAFTER, CA 93263

DRAWING SUBMITTAL SCHEDULE

50% CONSTRUCTION DOCUMENTS	10/10/2025
100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO: 22434-E-02

INTERIOR ELEVATIONS - BUILDING 100

A-713

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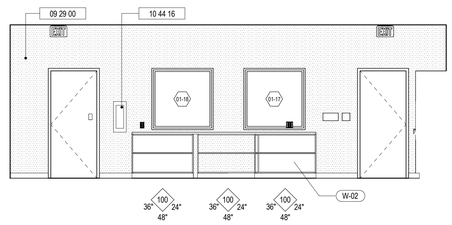
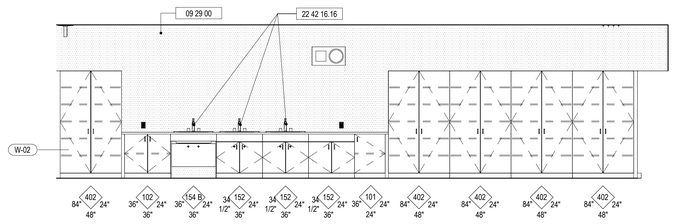
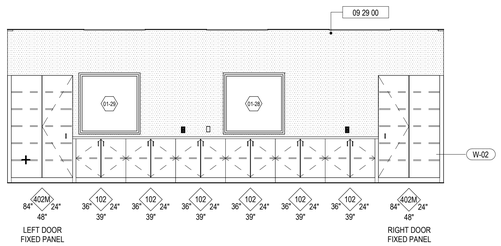


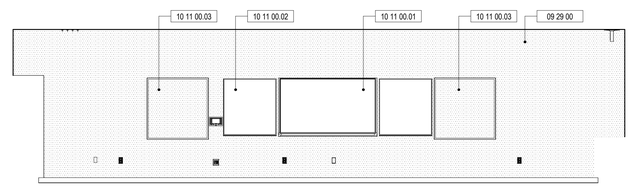
ART CLASSROOM 120 - NORTH SCALE: 1/4" = 1'-0" 8



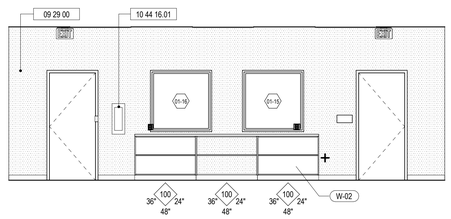
ART CLASSROOM 120 - EAST SCALE: 1/4" = 1'-0" 7



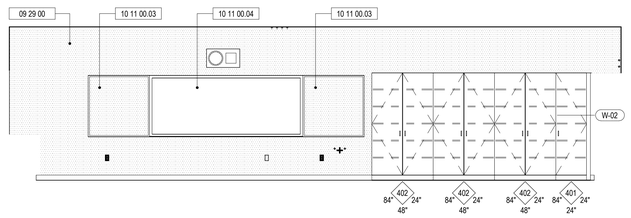
ART CLASSROOM 120 - SOUTH SCALE: 1/4" = 1'-0" 6



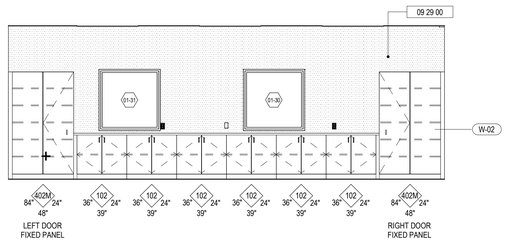
ART CLASSROOM 120 - WEST SCALE: 1/4" = 1'-0" 5



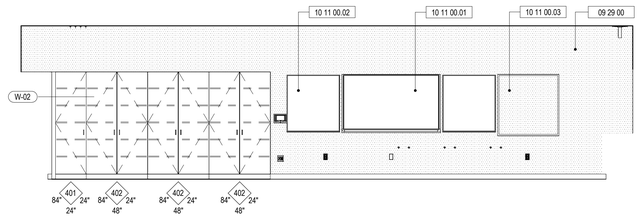
PAXTON PATTERSON LAB 119 - NORTH SCALE: 1/4" = 1'-0" 4



PAXTON PATTERSON LAB 119 - EAST SCALE: 1/4" = 1'-0" 3



PAXTON PATTERSON LAB 119 - SOUTH SCALE: 1/4" = 1'-0" 2



PAXTON PATTERSON LAB 119 - WEST SCALE: 1/4" = 1'-0" 1

LEGEND

FINISH TAGS - SEE SHEET A-530:

XXXX	WALL FINISH
XXXX	WALL BASE
XXXX	CASEWORK OR MISCELLANEOUS

GENERAL NOTES

1. REFER TO FLOOR PLANS FOR FINISH FLOOR HEIGHT.
2. FOR MOUNTING HEIGHTS OF TOILET ROOM ACCESSORIES, SEE DETAIL 11/A-801

KEYNOTES

09 29 00	GYPSUM BOARD
10 11 00.01	INTERACTIVE DISPLAY TOUCHSCREEN WHITEBOARD
10 11 00.02	TOUCHSCREEN WHITEBOARD FRAME
10 11 00.03	TACKBOARD
10 11 00.04	MARKERBOARD
10 44 16	FIRE EXTINGUISHERS
10 44 16.01	DLDRECESSED FIRE EXTINGUISHER CABINET. MOUNTED PER DETAIL 7/A-822
22 42 16.16	COMMERCIAL SINKS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125726 INC:
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DATE: 04/28/2026

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STEPHANIE B. SMITH
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CENTRAL VALLEY HIGH SCHOOL
CONTINUATION HIGH SCHOOL CAMPUS
526 MANNEL AVENUE
SHAFTER, CA 93263

DRAWING SUBMITTAL SCHEDULE

50% CONSTRUCTION DOCUMENTS	10/10/2025
100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO: 22434-E-02

INTERIOR ELEVATIONS - BUILDING 100

A-714

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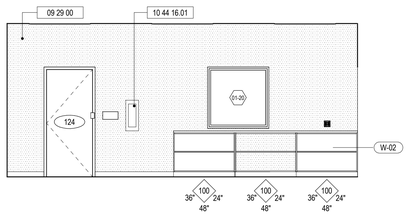
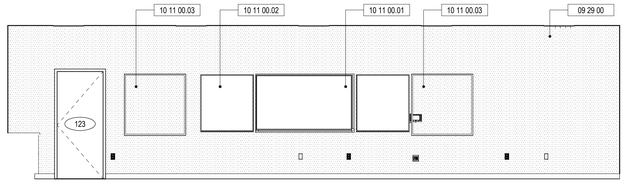
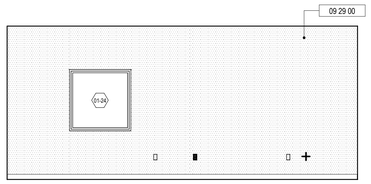


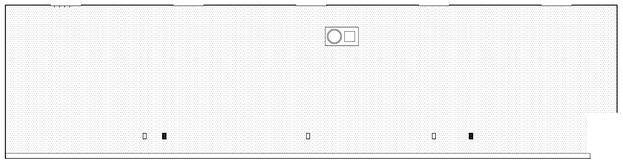
CLASSROOM 124 - NORTH SCALE: 1/4" = 1'-0" 8



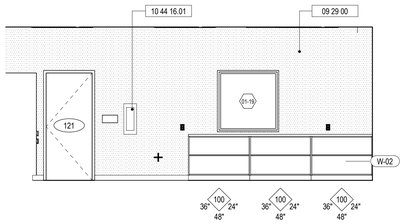
CLASSROOM 124 - EAST SCALE: 1/4" = 1'-0" 7



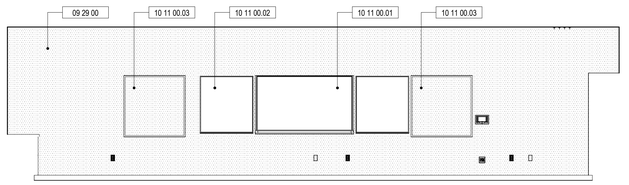
CLASSROOM 124 - SOUTH SCALE: 1/4" = 1'-0" 6



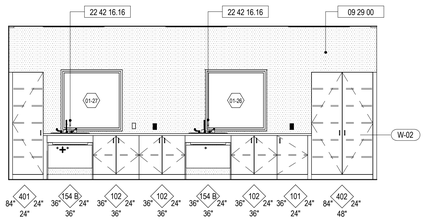
CLASSROOM 124 - WEST SCALE: 1/4" = 1'-0" 5



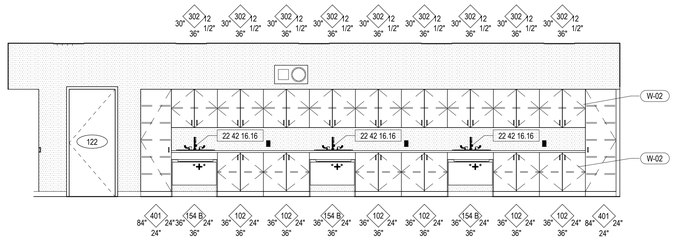
SCIENCE CLASSROOM 121 - NORTH SCALE: 1/4" = 1'-0" 4



SCIENCE CLASSROOM 121 - EAST SCALE: 1/4" = 1'-0" 3



SCIENCE CLASSROOM 121 - SOUTH SCALE: 1/4" = 1'-0" 2



SCIENCE CLASSROOM 121 - WEST SCALE: 1/4" = 1'-0" 1

LEGEND

FINISH TAGS - SEE SHEET A-530:

XXXX WALL FINISH

XXXX WALL BASE

XXXX CASEWORK OR MISCELLANEOUS

GENERAL NOTES

1. REFER TO FLOOR PLANS FOR FINISH FLOOR HEIGHT.
2. FOR MOUNTING HEIGHTS OF TOILET ROOM ACCESSORIES, SEE DETAIL 11/A-801

KEYNOTES

09 29 00	GYPSUM BOARD
10 11 00.01	INTERACTIVE DISPLAY TOUCHSCREEN WHITEBOARD
10 11 00.02	TOUCHSCREEN WHITEBOARD FRAME
10 11 00.03	TACKBOARD
10 44 16.01	DLDRECESSED FIRE EXTINGUISHER CABINET. MOUNTED PER DETAIL 7/A-822
22 42 16.16	COMMERCIAL SINKS

IDENTIFICATION STAMP
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STEPHANIE B. AMES
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CENTRAL VALLEY HIGH SCHOOL
CONTINUATION HIGH SCHOOL CAMPUS
526 MANNEL AVENUE
SHAFTER, CA 93263

DRAWING SUBMITTAL SCHEDULE

	50% CONSTRUCTION DOCUMENTS	10/10/2025
	100% CONSTRUCTION DOCUMENTS	11/21/2025
	DWG V2	02/27/2026
	DWG V3	04/28/2026

PROJECT NO:22434-E-02

INTERIOR ELEVATIONS - BUILDING 100

A-715

Autodesk Docs://KHSD- Central Valley Continuation HS/22434- Central Valley CHS- 903.rvt
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LEGEND

FINISH TAGS - SEE SHEET A-530:

XXXX — WALL FINISH

XXXX — WALL BASE

XXXX — CASEWORK OR MISCELLANEOUS

GENERAL NOTES

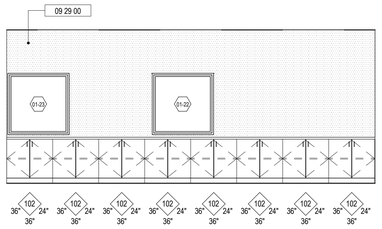
1. REFER TO FLOOR PLANS FOR FINISH FLOOR HEIGHT.
2. FOR MOUNTING HEIGHTS OF TOILET ROOM ACCESSORIES, SEE DETAIL 11/A-801

KEYNOTES

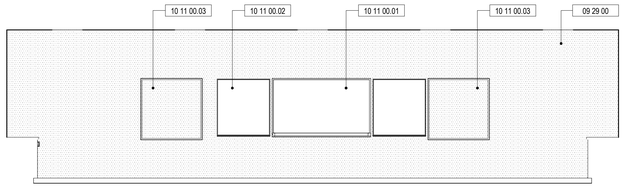
09 29 00	GYPSUM BOARD
10 11 00.01	INTERACTIVE DISPLAY TOUCHSCREEN WHITEBOARD
10 11 00.02	TOUCHSCREEN WHITEBOARD FRAME
10 11 00.03	TACKBOARD
10 44 16.01	DLDRECESSED FIRE EXTINGUISHER CABINET. MOUNTED PER DETAIL 7/A-822

CLASSROOM 125 - NORTH SCALE: 1/4" = 1'-0" (4)

CLASSROOM 125 - EAST SCALE: 1/4" = 1'-0" (3)



CLASSROOM 125 - SOUTH SCALE: 1/4" = 1'-0" (2)



CLASSROOM 125 - WEST SCALE: 1/4" = 1'-0" (1)

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SHAFTER, CA 93263

DRAWING SUBMITTAL SCHEDULE

50% CONSTRUCTION DOCUMENTS	10/10/2025
100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V3	04/28/2026

PROJECT NO: 22434-E-02

INTERIOR ELEVATIONS - BUILDING 100

A-716

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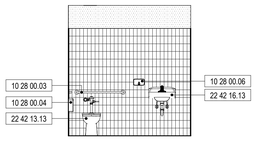
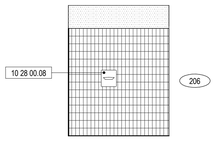
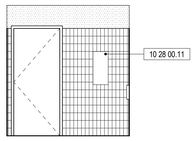


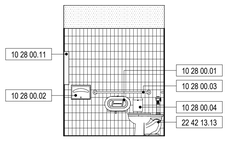
UNISEX RESTROOM 206 - NORTH SCALE: 1/4" = 1'-0" 16



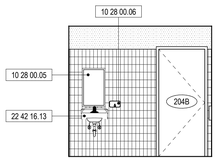
UNISEX RESTROOM 206 - EAST SCALE: 1/4" = 1'-0" 15



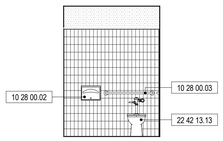
UNISEX RESTROOM 206 - SOUTH SCALE: 1/4" = 1'-0" 14



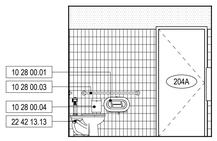
UNISEX RESTROOM 206 - WEST SCALE: 1/4" = 1'-0" 13



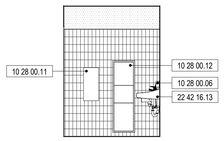
UNISEX RESTROOM 204 - NORTH SCALE: 1/4" = 1'-0" 12



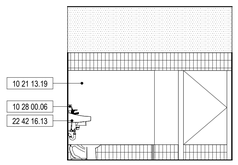
UNISEX RESTROOM 204 - EAST SCALE: 1/4" = 1'-0" 11



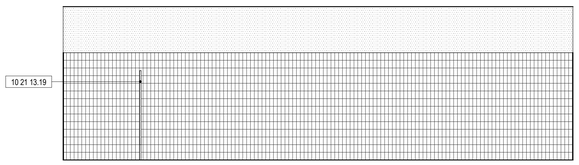
UNISEX RESTROOM 204 - SOUTH SCALE: 1/4" = 1'-0" 10



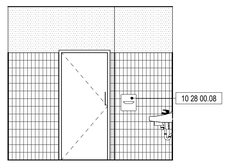
UNISEX RESTROOM 204 - WEST SCALE: 1/4" = 1'-0" 9



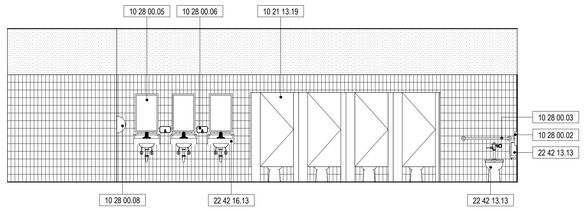
BOYS RESTROOM 208 - NORTH SCALE: 1/4" = 1'-0" 8



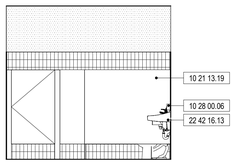
BOYS RESTROOM 208 - EAST SCALE: 1/4" = 1'-0" 7



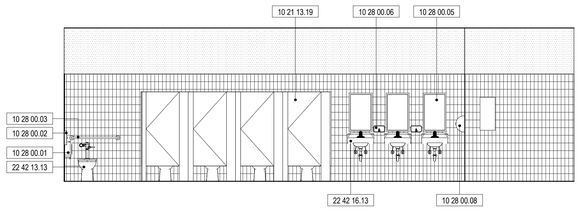
BOYS RESTROOM 208 - SOUTH SCALE: 1/4" = 1'-0" 6



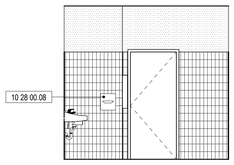
BOYS RESTROOM 208 - WEST SCALE: 1/4" = 1'-0" 5



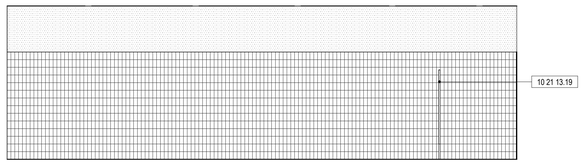
GIRLS RESTROOM 207 - NORTH SCALE: 1/4" = 1'-0" 4



GIRLS RESTROOM 207 - EAST SCALE: 1/4" = 1'-0" 3



GIRLS RESTROOM 207 - SOUTH SCALE: 1/4" = 1'-0" 2



GIRLS RESTROOM 207 - WEST SCALE: 1/4" = 1'-0" 1

LEGEND

FINISH TAGS - SEE SHEET A-530:

XXXX WALL FINISH

XXXX WALL BASE

XXXX CASEWORK OR MISCELLANEOUS

GENERAL NOTES

1. REFER TO FLOOR PLANS FOR FINISH FLOOR HEIGHT.
2. FOR MOUNTING HEIGHTS OF TOILET ROOM ACCESSORIES, SEE DETAIL 11/A-801

KEYNOTES

10 21 13.19	PLASTIC TOILET COMPARTMENTS
10 28 00.01	TOILET TISSUE DISPENSER
10 28 00.02	SEAT COVER DISPENSER
10 28 00.03	GRAB BARS; REFER TO DETAIL 11/A-801 FOR INSTALLATION DIMENSIONS NOT SHOWN ON PLANS OR ELEVATIONS
10 28 00.04	SANITARY NAPKIN DISPOSAL UNIT, SURFACE-MOUNTED
10 28 00.05	18X30 MIRROR
10 28 00.06	SOAP DISPENSER
10 28 00.08	WARM-AIR HAND DRYER, 4" MAX PROJECTION; REFER TO ELECTRICAL FOR POWER REQUIREMENTS
10 28 00.11	FEMININE PRODUCT DISPENSER
10 28 00.12	PAPER TOWEL DISPENSER AND WASTE RECEPTACLE
22 42 13.13	FLOOR-MOUNTED COMMERCIAL WATER CLOSET
22 42 16.13	WALL-HUNG COMMERCIAL LAVATORY; REFER TO PLUMBING; PROVIDE UNDER-LAVATORY GUARD AT EXPOSED PIPES. CLEARANCES PER 17/A-801.

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SHERMANIE B. MAE
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REN. AUG 31, 27
STATE OF CALIFORNIA

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CENTRAL VALLEY HIGH SCHOOL
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526 MANNEL AVENUE
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DRAWING SUBMITTAL SCHEDULE

50% CONSTRUCTION DOCUMENTS	10/10/2025
100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO: 22434-E-02

INTERIOR ELEVATIONS - BUILDING 200 RESTROOMS

A-720

Autodesk Docs://KHSD_Central Valley Continuation HS/22434_Central Valley CHS_R23.rvt
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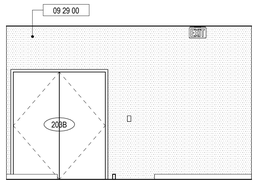
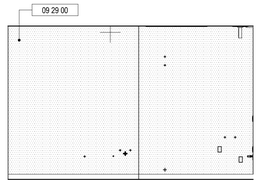
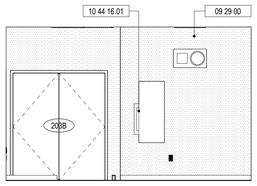


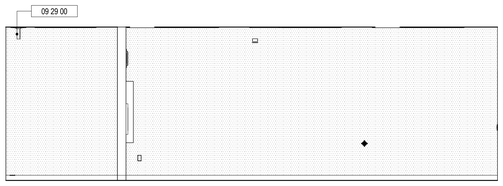
KITCHEN 203 - NORTH B SCALE: 1/4" = 1'-0" 14



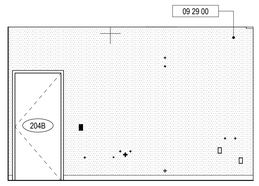
KITCHEN 203 - SOUTH B SCALE: 1/4" = 1'-0" 13



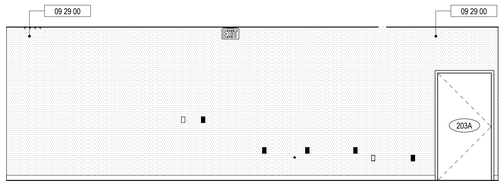
KITCHEN 203 - NORTH SCALE: 1/4" = 1'-0" 12



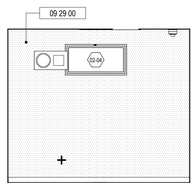
KITCHEN 203 - EAST SCALE: 1/4" = 1'-0" 11



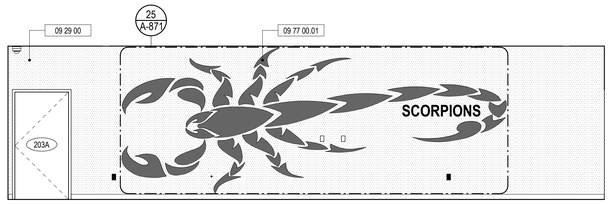
KITCHEN 203 - SOUTH SCALE: 1/4" = 1'-0" 10



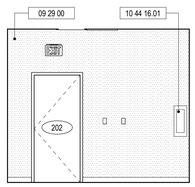
KITCHEN 203 - WEST SCALE: 1/4" = 1'-0" 9



SERVING/PAY 202 - NORTH SCALE: 1/4" = 1'-0" 8



SERVING/PAY 202 - EAST SCALE: 1/4" = 1'-0" 7



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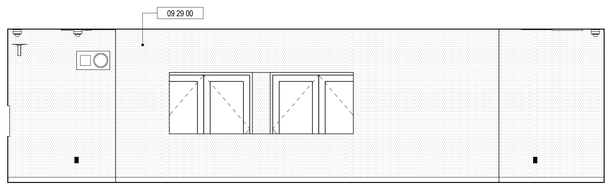
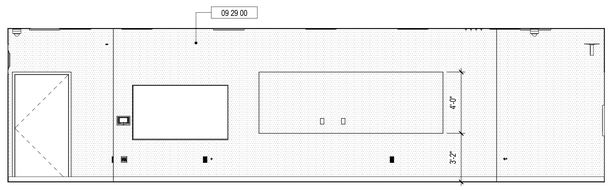
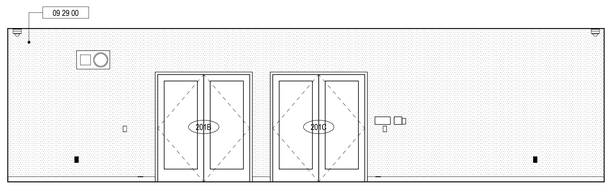


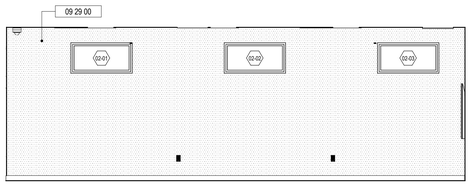
SERVING/PAY 202 - WEST SCALE: 1/4" = 1'-0" 5



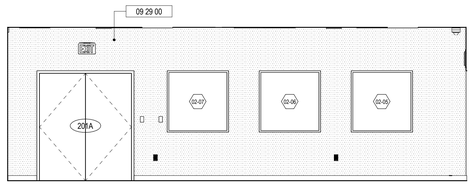
CAFETERIA 201 - EAST SCALE: 1/4" = 1'-0" 4



CAFETERIA 201 - WEST SCALE: 1/4" = 1'-0" 3



CAFETERIA 201 - NORTH SCALE: 1/4" = 1'-0" 2



CAFETERIA 201 - SOUTH SCALE: 1/4" = 1'-0" 1

LEGEND

FINISH TAGS - SEE SHEET A-530:

XXXX WALL FINISH

XXXX WALL BASE

XXXX CASEWORK OR MISCELLANEOUS

GENERAL NOTES

1. REFER TO FLOOR PLANS FOR FINISH FLOOR HEIGHT.
2. FOR MOUNTING HEIGHTS OF TOILET ROOM ACCESSORIES, SEE DETAIL 11/A-801

KEYNOTES

09 29 00	GYPSUM BOARD
09 77 00.01	3M ENVISION PRINT WALL WRAP - LX480mC, 2-MIL, NON-PVC FILM WITH 3M ENVISION WRAP OVERLAMINATE - 8549L, LUSTER FINISH
10 44 16.01	DLDRECESSED FIRE EXTINGUISHER CABINET. MOUNTED PER DETAIL 7/A-822

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DIV. OF THE STATE ARCHITECT
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DATE: 04/28/2026

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STEPHANIE B. ANG
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REN. AUG 31, 27
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BAKERSFIELD, CA 93309

CENTRAL VALLEY HIGH SCHOOL
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526 MANNEL AVENUE
SHAFTER, CA 93263

DRAWING SUBMITTAL SCHEDULE

50% CONSTRUCTION DOCUMENTS	10/10/2025
100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V3	04/28/2026

PROJECT NO: 22434-E-02

INTERIOR ELEVATIONS - BUILDING 200

A-721

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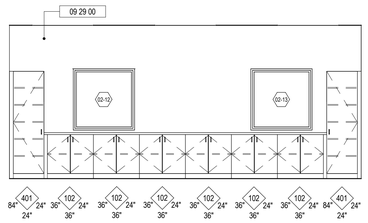
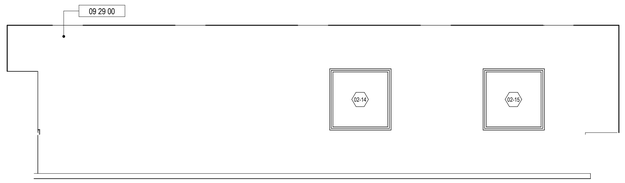
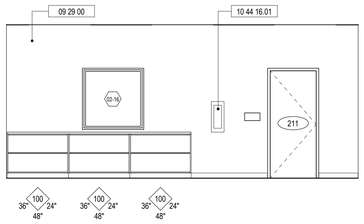


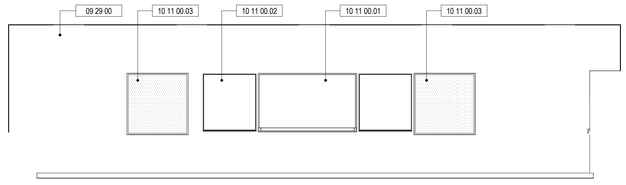
MEDIA RESOURCE CENTER 211 - NORTH SCALE: 1/4" = 1'-0" 8



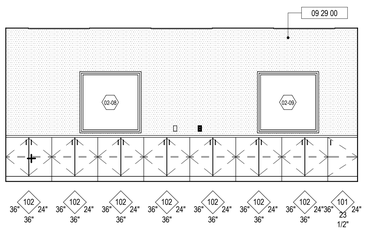
MEDIA RESOURCE CENTER 211 - EAST SCALE: 1/4" = 1'-0" 7



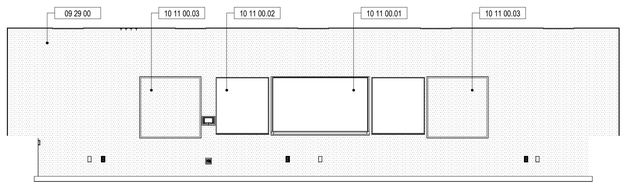
MEDIA RESOURCE CENTER 211 - SOUTH SCALE: 1/4" = 1'-0" 6



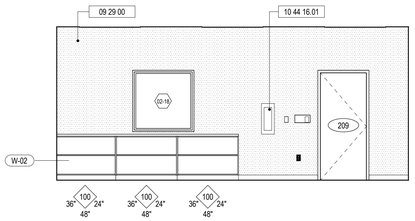
MEDIA RESOURCE CENTER 211 - WEST SCALE: 1/4" = 1'-0" 5



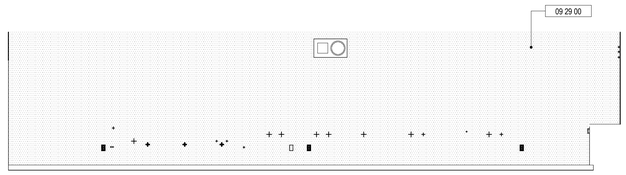
TYP. CLASSROOM - NORTH SCALE: 1/4" = 1'-0" 4



TYP. CLASSROOM - EAST SCALE: 1/4" = 1'-0" 3



TYP. CLASSROOM - SOUTH SCALE: 1/4" = 1'-0" 2



TYP. CLASSROOM - WEST SCALE: 1/4" = 1'-0" 1

LEGEND

FINISH TAGS - SEE SHEET A-530:

XXXX	WALL FINISH
XXXX	WALL BASE
XXXX	CASEWORK OR MISCELLANEOUS

GENERAL NOTES

1. REFER TO FLOOR PLANS FOR FINISH FLOOR HEIGHT.
2. FOR MOUNTING HEIGHTS OF TOILET ROOM ACCESSORIES, SEE DETAIL 11/A-801

KEYNOTES

09 29 00	GYPSUM BOARD
10 11 00.01	INTERACTIVE DISPLAY TOUCHSCREEN WHITEBOARD
10 11 00.02	TOUCHSCREEN WHITEBOARD FRAME
10 11 00.03	TACKBOARD
10 44 16.01	DLDRECESSED FIRE EXTINGUISHER CABINET. MOUNTED PER DETAIL 7/A-822

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DRAWING SUBMITTAL SCHEDULE

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100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO: 22434-E-02

INTERIOR ELEVATIONS - BUILDING 200

A-722

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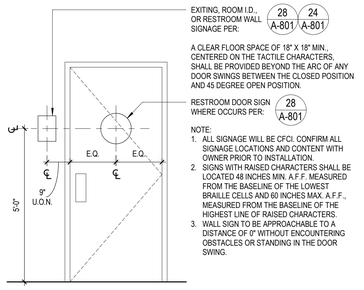
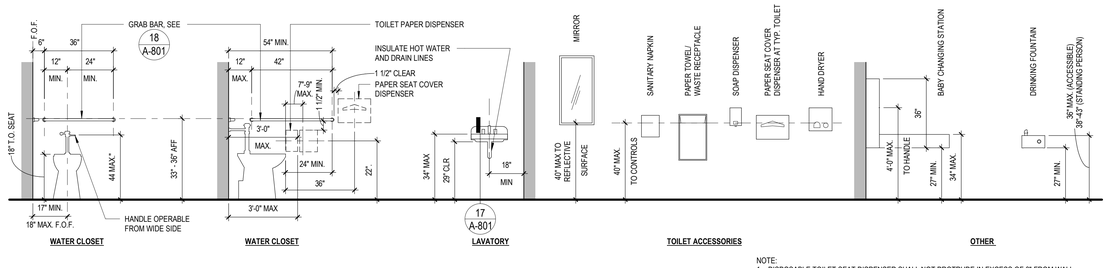


DOOR SIGNAGE MOUNTING

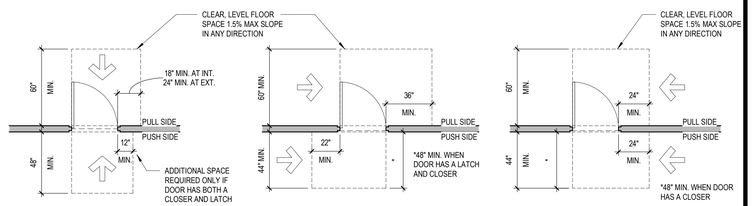
SCALE: 1/2" = 1'-0" — 26



NOTE:
1. DISPOSABLE TOILET SEAT DISPENSER SHALL NOT PROTRUDE IN EXCESS OF 3" FROM WALL.
2. THE DIAMETER, OR WIDTH, OF THE GRAB BAR GRIPPING SURFACE IS = OR > 1-1/4" BUT = OR < 2", OR THE SHAPE SHALL PROVIDE AN EQUIVALENT GRIPPING SURFACE.

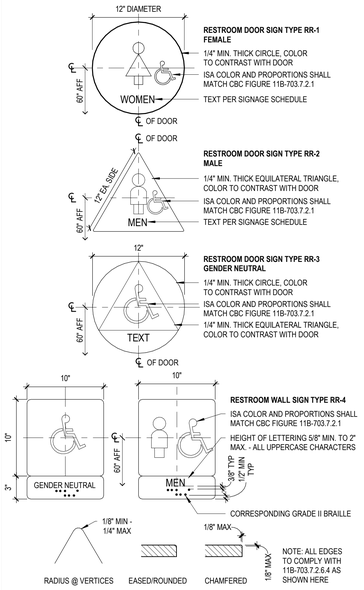
FIXTURE AND ACCESSORY MOUNTING REQ.

SCALE: 3/8" = 1'-0" — 11



MANEUVERING CLEARANCES

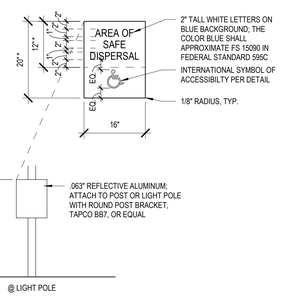
SCALE: 1/4" = 1'-0" — 1



GENERAL SIGNAGE NOTES:
1. REFER TO SPECIFICATIONS FOR LETTER STYLE, PROPORTIONS, STROKE, SIZE, MARGINS, BRAILLE CRITERIA, AND SIGN MATERIALS/FINISHES
2. SIGN TO HAVE CONTRASTING COLORS

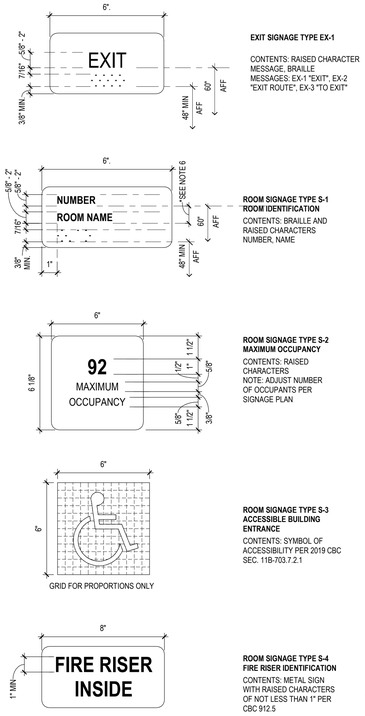
RESTROOM SIGNAGE TYPES

SCALE: 1 1/2" = 1'-0" — 28



SAFE DISPERSAL AREA SIGNAGE

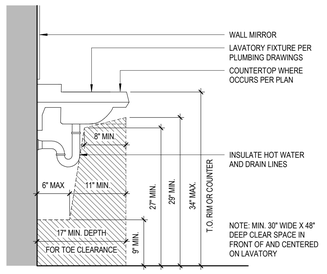
SCALE: 3/4" = 1'-0" — 29



NOTES:
1. RAISED CHARACTERS SHALL COMPLY WITH CBC 11B-703.2.
2. SEE DETAIL 26 / A-801 FOR SIGNAGE PLACEMENT ADJACENT TO DOORS.
3. MOUNTING HEIGHT: A TACTILE SIGN SHALL BE LOCATED 48" MINIMUM TO THE BASELINE OF THE LOWEST BRAILLE CELLS AND 60" MAXIMUM TO THE BASELINE OF THE HIGHEST LINE OF THE RAISED CHARACTERS ABOVE THE FINISH FLOOR OR GROUND SURFACE.
4. BRAILLE: SHALL BE CONTRACTED (GRADE 2) AND SHALL COMPLY WITH CBC 11B-703.3 ABD 11B-703.4. BRAILLE DOTS SHALL HAVE A DOMED AND ROUNDED SHAPE AND SHALL COMPLY WITH CBC TABLE AND FIGURE 11B-703.3.1.
5. SPACING BETWEEN BASELINES OF SEPARATE LINES OF RAISED CHARACTERS WITHIN A MESSAGE SHALL BE 135 PERCENT MINIMUM AND 170 PERCENT MAXIMUM OF THE RAISED CHARACTER HEIGHT PER CBC 11B-703.2.8.

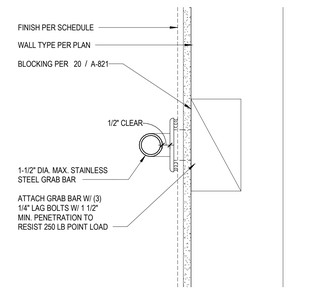
ROOM SIGNAGE TYPES

SCALE: 3" = 1'-0" — 24



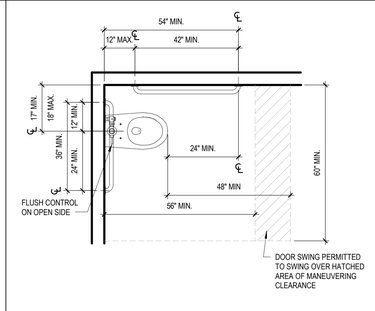
LAVATORY CLEARANCES

SCALE: 1" = 1'-0" — 17



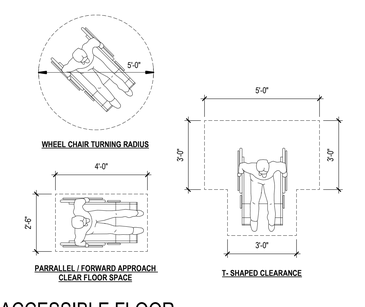
GRAB BAR

SCALE: 3" = 1'-0" — 18



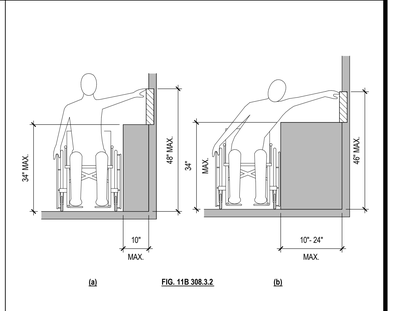
RESTROOM WATER CLOSET

SCALE: 1/2" = 1'-0" — 13



ACCESSIBLE FLOOR CLEARANCES

SCALE: 3/8" = 1'-0" — 8

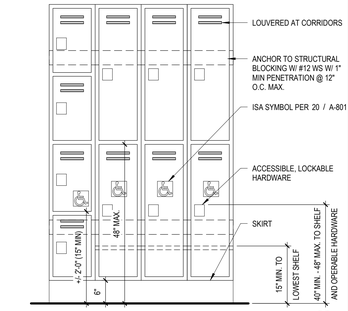


SIDE REACH

SCALE: 1/2" = 1'-0" — 3

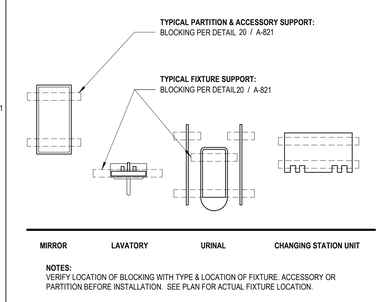
SAFE DISPERSAL AREA SIGNAGE

SCALE: 3/4" = 1'-0" — 29



ACCESSIBLE LOCKERS

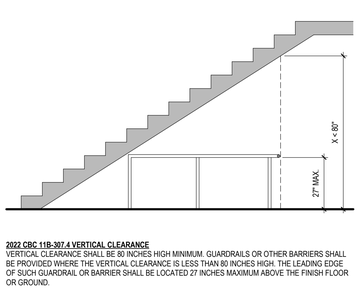
SCALE: 3/4" = 1'-0" — 19



NOTES:
VERIFY LOCATION OF BLOCKING WITH TYPE & LOCATION OF FIXTURE. ACCESSORY OR PARTITION BEFORE INSTALLATION. SEE PLAN FOR ACTUAL FIXTURE LOCATION.

RESTROOM FIXTURES SUPPORT

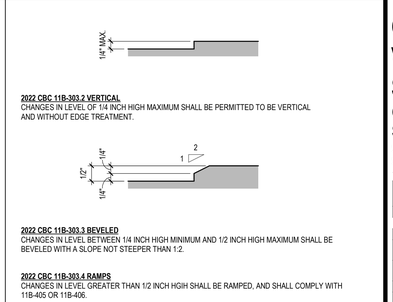
SCALE: 3/8" = 1'-0" — 14



2022 CBC 11B-307.4 VERTICAL CLEARANCE
VERTICAL CLEARANCE SHALL BE 80 INCHES HIGH MINIMUM. GUARDRAILS OR OTHER BARRIERS SHALL BE PROVIDED WHERE THE VERTICAL CLEARANCE IS LESS THAN 80 INCHES HIGH. THE LEADING EDGE OF SUCH GUARDRAIL OR BARRIER SHALL BE LOCATED 27 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND.

VERTICAL CLEARANCE

SCALE: 3/8" = 1'-0" — 9



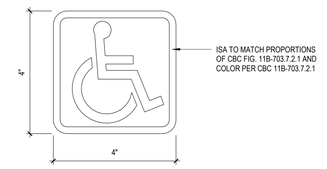
2022 CBC 11B-303.2 VERTICAL
CHANGES IN LEVEL OF 1/4 INCH HIGH MAXIMUM SHALL BE PERMITTED TO BE VERTICAL AND WITHOUT EDGE TREATMENT.

2022 CBC 11B-303.3 BEVELED
CHANGES IN LEVEL BETWEEN 1/4 INCH HIGH MINIMUM AND 1/2 INCH HIGH MAXIMUM SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:2.

2022 CBC 11B-303.4 RAMPS
CHANGES IN LEVEL GREATER THAN 1/2 INCH HGIH SHALL BE RAMPED, AND SHALL COMPLY WITH 11B-405 OR 11B-406.

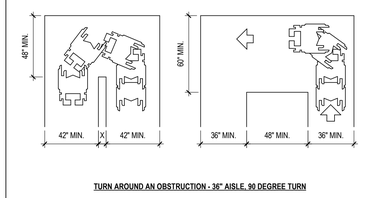
CHANGES IN LEVEL

SCALE: 6" = 1'-0" — 4

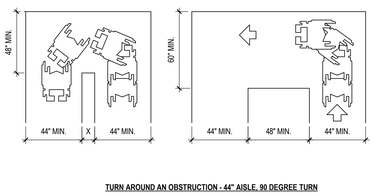


ISA SYMBOL

SCALE: 6" = 1'-0" — 20



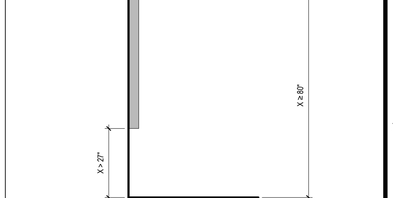
TURN AROUND AN OBSTRUCTION - 36" AISLE, 90 DEGREE TURN



TURN AROUND AN OBSTRUCTION - 44" AISLE, 90 DEGREE TURN

TURN AROUND AN OBSTRUCTION

SCALE: 1/4" = 1'-0" — 10



2022 CBC 11B-307.2 PROTUSION LIMITS
OBJECTS WITH LEADING EDGES MORE THAN 27" INCHES AND NOT MORE THAN 80 INCHES ABOVE THE FINISH FLOOR OR GROUND SHALL PROTRUDE 4 INCHES MAXIMUM HORIZONTALLY INTO THE CIRCULATION PATH.

PROTRUDING OBJECTS

SCALE: 1/2" = 1'-0" — 5

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125726 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/28/2026

SGPA
ARCHITECTURE AND PLANNING
3111 CAMINO DEL RIO NORTH, STUDIO 500
SAN DIEGO, CA 92108
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LICENSED ARCHITECT
STEPHANIE B. AMES
NO. C34108
REN. AUG 31, 27
STATE OF CALIFORNIA

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KERN HIGH SCHOOL DISTRICT
5801 SUNDALE AVE.
BAKERSFIELD, CA 93309

CENTRAL VALLEY HIGH SCHOOL
CONTINUATION HIGH SCHOOL CAMPUS
526 MANNEL AVENUE
SHAFTER, CA 93263

DRAWING SUBMITTAL SCHEDULE

100% DD SET	07/08/2025
50% CONSTRUCTION DOCUMENTS	10/10/2025
100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO:22434-E-02

DETAILS - ACCESSIBILITY

A-801

Autodesk Docs://KVSD - Central Valley Continuation HS/22434 Central Valley CHS_R23.rvt
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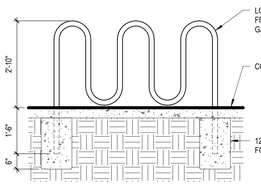


BIKE RACK

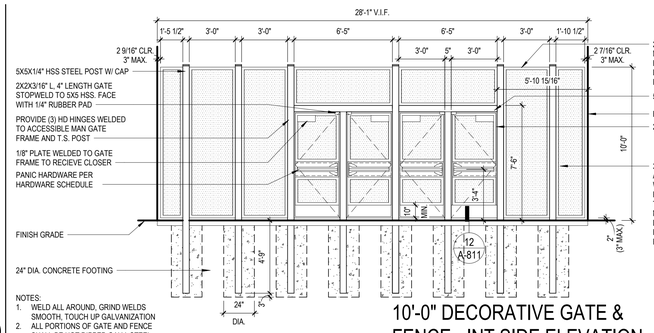
SCALE: 1/2" = 1'-0" — 26

FENCE POST / FOOTING	MAX. FENCE HEIGHT	MIN. LINE POST O.D.	LINE POST FOOTING DIMENSION	MIN. TERMINAL POST O.D.	TERMINAL POST FOOTING DIMENSION
	6'-0"	1.900"	12" DIA. X 3'-0"	2.375"	14" DIA. X 3'-0"
	8'-0"	2.375"	12" DIA. X 3'-6"	2.875"	14" DIA. X 3'-6"
	10'-0"	2.825"	12" DIA. X 4'-0"	3.500"	14" DIA. X 4'-0"
	12'-0"	3.500"	14" DIA. X 4'-6"	4.000"	16" DIA. X 4'-6"

GATE POST / FOOTING	8'-0" HIGH GATE		
	MAX. LEAF WIDTH	GATE POST O.D.	GATE POST FOOTING DIMENSION
	4'-0"	2.875"	12" DIA. X 3'-6"
	6'-0"	2.875"	12" DIA. X 4'-0"

CHAIN LINK FENCING POST/FOOTING SCHEDULE

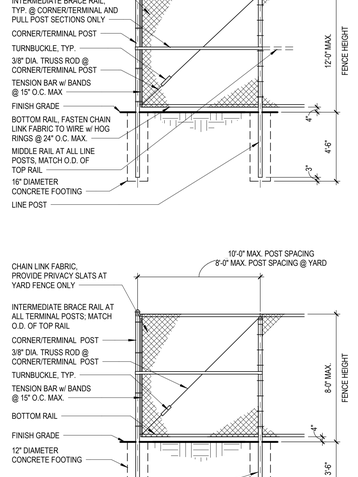
SCALE: 1 1/2" = 1'-0" — 21



NOTES:
1. WELD ALL AROUND, GRIND WELDS SMOOTH, TOUCH UP GALVANIZATION
2. ALL PORTIONS OF GATE AND FENCE SHALL BE HOT DIPPED GALV. STEEL

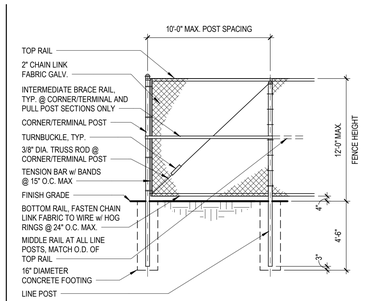
10'-0" DECORATIVE GATE & FENCE - INT SIDE ELEVATION

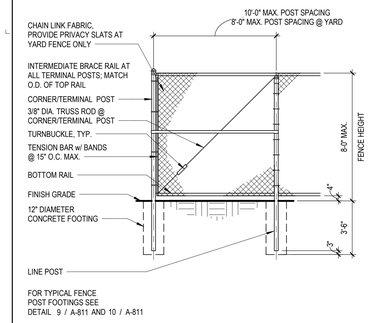
SCALE: 1/4" = 1'-0" — 11



DECORATIVE GATE HARDWARE W/ PANIC

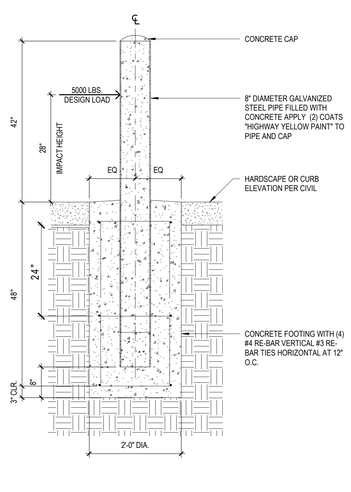
SCALE: 3" = 1'-0" — 7





CHAIN LINK FENCE ELEVATION

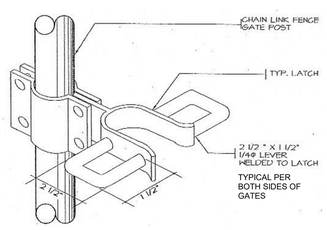
SCALE: 1/4" = 1'-0" — 2



NOTE:
BOLLARD TO MEET ASTM F3016 WITH A P1 PENETRATION RATING

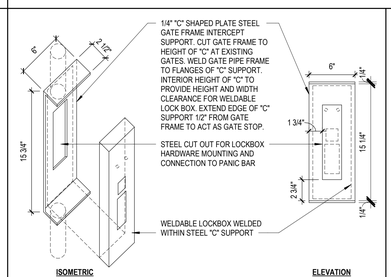
STEEL PIPE BOLLARD

SCALE: 3/4" = 1'-0" — 28



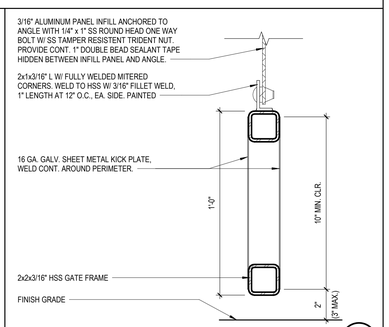
LOCKING FORK W/ LEVER HARDWARE

SCALE: 3" = 1'-0" — 22



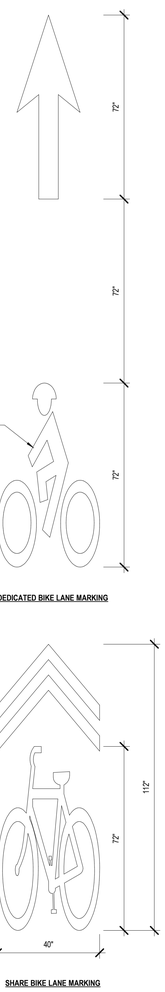
CHAIN LINK GATE PANIC HARDWARE STEEL "C" SUPPORT AND WELDABLE BOX

SCALE: 1 1/2" = 1'-0" — 17



DECORATIVE GATE KICK PLATE

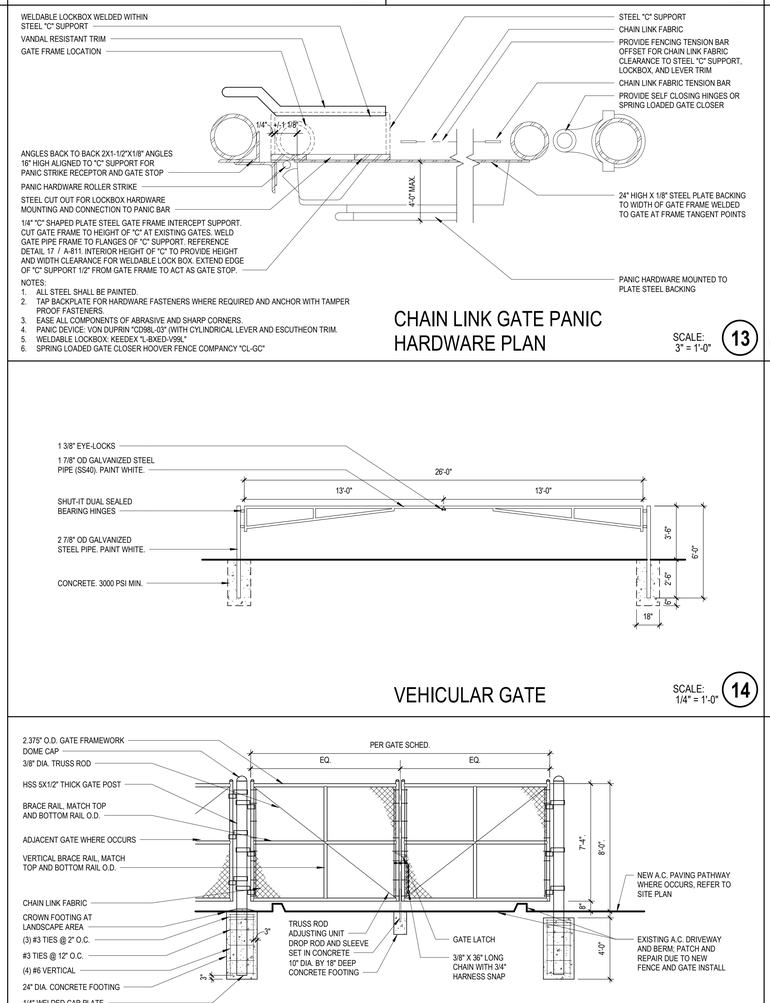
SCALE: 3" = 1'-0" — 12



SHARE BIKE LANE MARKING

BIKE LANE MARKINGS

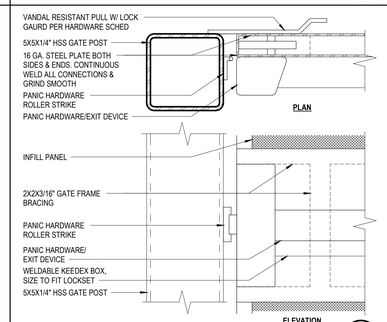
SCALE: 1/2" = 1'-0" — 25



NOTES:
1. ALL STEEL SHALL BE PAINTED.
2. TAP BACKPLATE FOR HARDWARE FASTENERS WHERE REQUIRED AND ANCHOR WITH TAMPER PROOF FASTENERS.
3. EASE ALL COMPONENTS OF ABRASIVE AND SHARP CORNERS.
4. PANIC DEVICE: VON DUPRIN "CD98L-03" (WITH CYLINDRICAL LEVER AND ESCUTHEON TRIM.
5. WELDABLE LOCKBOX: KEEDEX "L-BXED-V99L"
6. SPRING LOADED GATE CLOSER HOOVER FENCE COMPANCY "CL-GC"

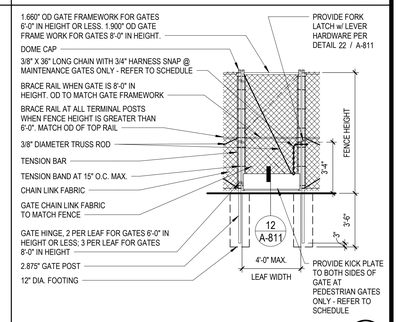
CHAIN LINK GATE PANIC HARDWARE PLAN

SCALE: 3" = 1'-0" — 13



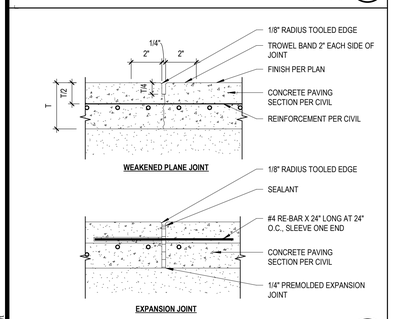
GATE HARDWARE W/ PANIC

SCALE: 3" = 1'-0" — 8



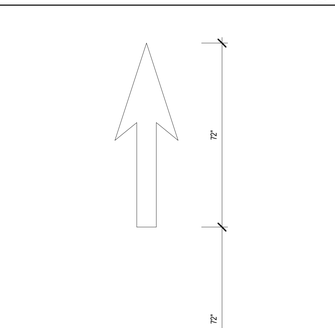
SINGLE CHAINLINK GATE

SCALE: 1/4" = 1'-0" — 3



CONCRETE JOINTS

SCALE: 3" = 1'-0" — 29



SHARE BIKE LANE MARKING

VEHICULAR GATE

SCALE: 1/4" = 1'-0" — 14

TYPICAL FENCE POST FOOTING

SCALE: 1" = 1'-0" — 9

DOUBLE CHAINLINK MAINTENANCE GATE

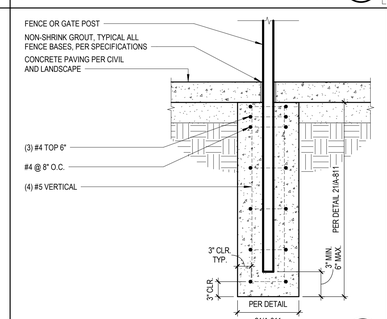
SCALE: 1/4" = 1'-0" — 4

TURN ARROWS

SCALE: 3/8" = 1'-0" — 30

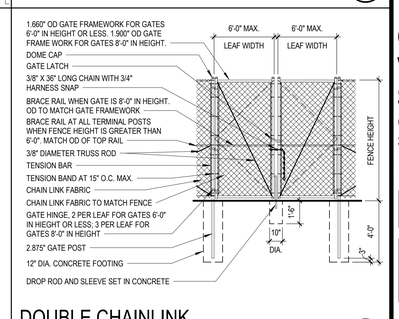
DOUBLE CHAINLINK VEHICULAR GATE

SCALE: 1/4" = 1'-0" — 15



FENCE POST FOOTING @ EDGE OF HARDSCAPE

SCALE: 1" = 1'-0" — 10



MOW CURB DETAIL

SCALE: 3" = 1'-0" — 5

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125726 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/28/2026

SGPA
ARCHITECTURE AND PLANNING
3111 CAMINO DEL RIO NORTH,
STUDIO 500
SAN DIEGO, CA 92108
619.297.0131
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5801 SUNDALE AVE.
BAKERSFIELD, CA 93309

CENTRAL VALLEY HIGH SCHOOL
CONTINUATION HIGH SCHOOL CAMPUS
526 MANNEL AVENUE
SHAFTER, CA 93263

DRAWING SUBMITTAL SCHEDULE

50% CONSTRUCTION DOCUMENTS	10/10/2025
100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO: 22434-E-02

DETAILS - SITE

A-811

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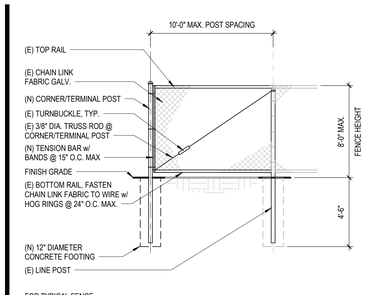
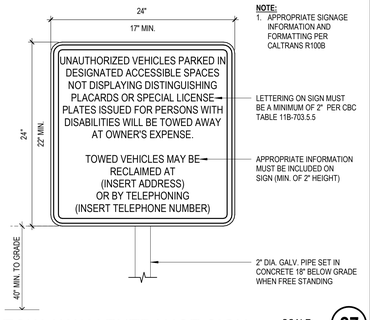


TERMINATION POST

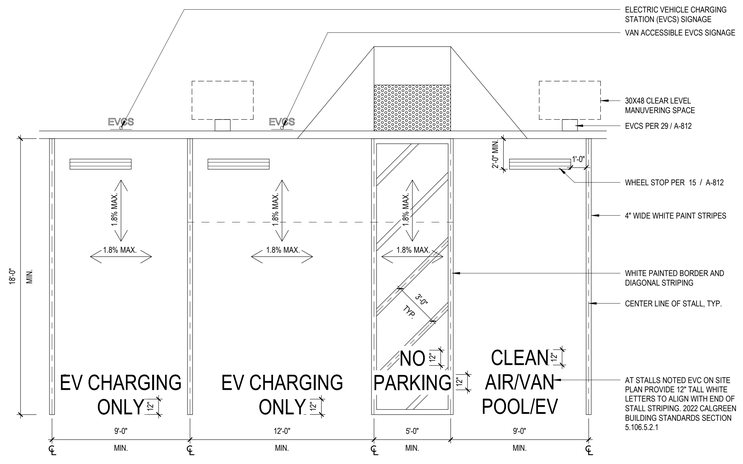
SCALE: 1/4" = 1'-0" (26)



NOTE:
1. APPROPRIATE SIGNAGE INFORMATION AND FORMATTING PER CALTRANS R100B

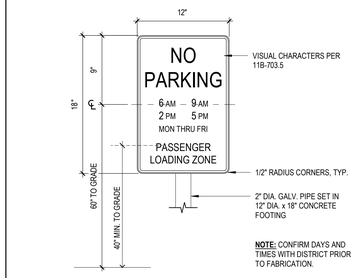
TOW AWAY ENTRANCE SIGN

SCALE: 1 1/2" = 1'-0" (27)



EV STALL TYPES

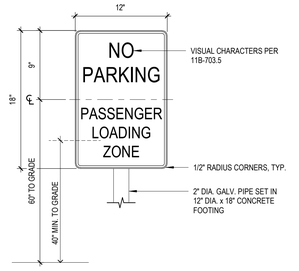
SCALE: 1/4" = 1'-0" (17)



NOTE: CONFIRM DAYS AND TIMES WITH DISTRICT PRIOR TO FABRICATION.

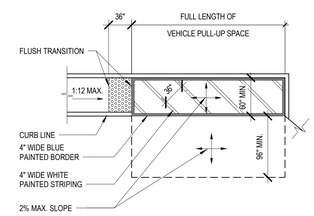
ROW PASSENGER LOADING ZONE SIGN

SCALE: 1 1/2" = 1'-0" (11)



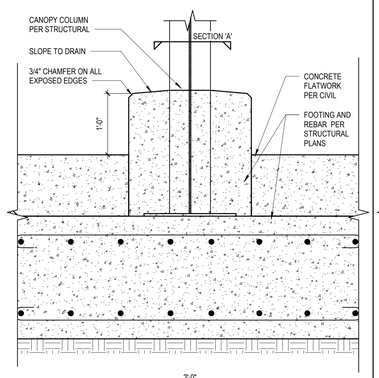
PASSENGER LOADING ZONE SIGN

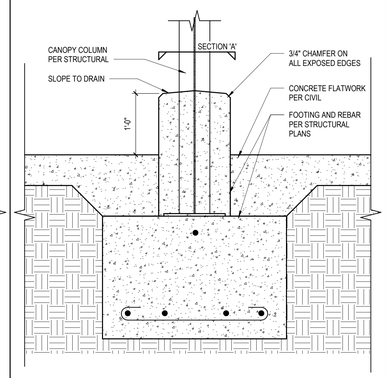
SCALE: 1 1/2" = 1'-0" (6)

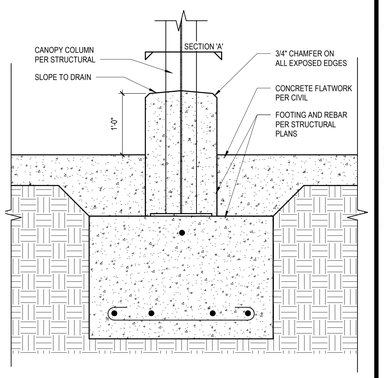


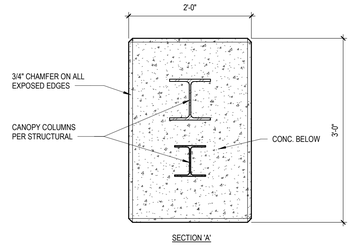
DROP-OFF AND LOADING ZONE

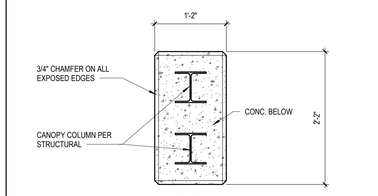
SCALE: 1/8" = 1'-0" (1)

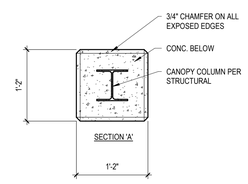












CANOPY COLUMN PEDESTAL - DOUBLE

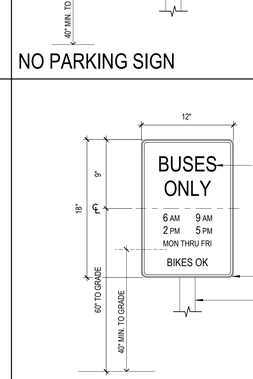
SCALE: 1" = 1'-0" (13)

CANOPY COLUMN PEDESTAL - DOUBLE

SCALE: 1" = 1'-0" (8)

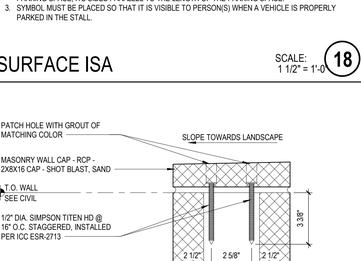
CANOPY COLUMN PEDESTAL

SCALE: 1" = 1'-0" (3)



NO PARKING SIGN

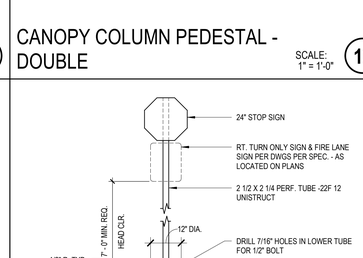
SCALE: 1 1/2" = 1'-0" (23)



NOTES:
1. THE SURFACE OF EACH ACCESSIBLE SPACE OR STALL SHALL HAVE SURFACE IDENTIFICATION DUPLICATING THE FOLLOWING. OUTLINE OF A PROFILE VIEW OF A WHEELCHAIR WITH OCCUPANT IN WHITE ON BLUE BACKGROUND. THE COLOR BLUE SHALL APPROXIMATE FS 15090 IN FEDERAL STANDARD 595C. A BORDER MAY BE PROVIDED INSIDE OR OUTSIDE OF THE MINIMUM REQUIRED INTERNATIONAL SYMBOL OF ACCESSIBILITY DIMENSION.
2. THE CENTERLINE OF THE ISA SHALL BE A MAXIMUM OF 6" FROM THE CENTERLINE OF THE PARKING SPACE. ITS SIDES PARALLEL TO THE LENGTH OF THE PARKING SPACE.
3. SYMBOL MUST BE PLACED SO THAT IT IS VISIBLE TO PERSON(S) WHEN A VEHICLE IS PROPERLY PARKED IN THE STALL.

SURFACE ISA

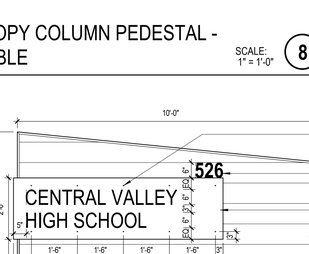
SCALE: 1 1/2" = 1'-0" (18)



NOTE: CONFIRM DAYS AND TIMES WITH DISTRICT PRIOR TO FABRICATION.

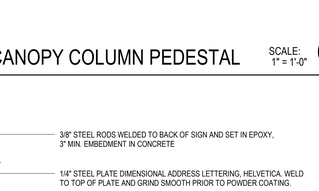
ROW PASSENGER LOADING ZONE SIGN

SCALE: 1 1/2" = 1'-0" (11)



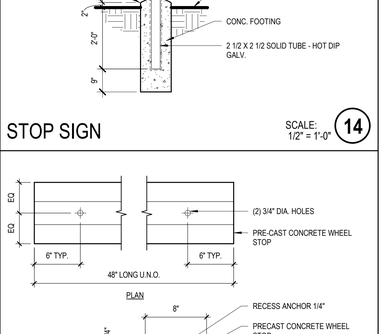
PASSENGER LOADING ZONE SIGN

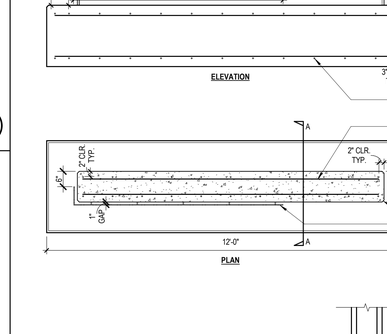
SCALE: 1 1/2" = 1'-0" (6)

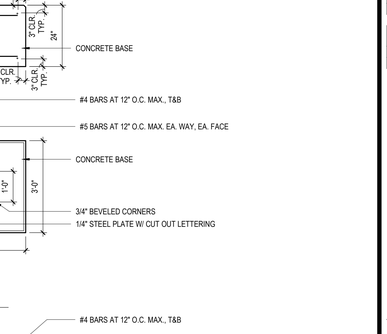


DROP-OFF AND LOADING ZONE

SCALE: 1/8" = 1'-0" (1)







CANOPY COLUMN PEDESTAL - DOUBLE

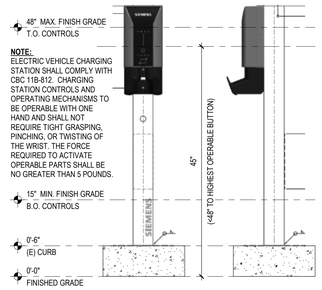
SCALE: 1" = 1'-0" (13)

CANOPY COLUMN PEDESTAL - DOUBLE

SCALE: 1" = 1'-0" (8)

CANOPY COLUMN PEDESTAL

SCALE: 1" = 1'-0" (3)



CHARGING STATION CONTROLS

SCALE: 1" = 1'-0" (29)

NOTE: CONFIRM DAYS AND TIMES WITH DISTRICT PRIOR TO FABRICATION.

BUSES ONLY SIGN

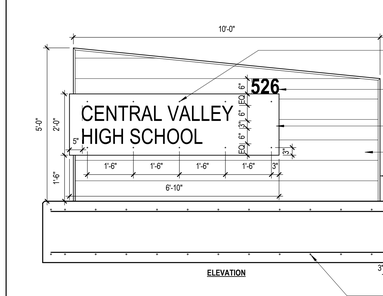
SCALE: 1 1/2" = 1'-0" (24)

HEAD OF MASONRY WALL

SCALE: 3" = 1'-0" (19)

STOP SIGN

SCALE: 1/2" = 1'-0" (14)



ENTRY MONUMENT SIGNAGE

SCALE: 1/2" = 1'-0" (5)

EVCS SIGN

SCALE: 1 1/2" = 1'-0" (30)

NOTES:
1. SIGN SHALL BE CONSTRUCTED OF A MINIMUM 0.062" THICK ALUMINUM.
2. LETTERING, SYMBOL AND BORDER SHALL BE REFLECTIVE WHITE, ON BLUE BACKGROUND
3. PLACE IN FRONT OF EACH ACCESSIBLE PARKING STALL WITHIN CLEAR VIEW, BUT NOT TO OBSTRUCT PASSAGE FROM PARKING STALL OR ANY WALKWAY.
4. WHERE SPACE IS DESIGNED FOR VAN ACCESSIBILITY, A SIGN "VAN ACCESSIBLE" SHALL BE INSTALLED.
5. MINIMUM VAN ACCESSIBLE VERTICAL CLEARANCE IS 8'-2"

ACCESSIBLE PARKING SIGN

SCALE: 1/4" = 1'-0" (25)

MASONRY WALL BASE @ LANDSCAPE

SCALE: 3" = 1'-0" (20)

WHEEL STOP

SCALE: 1 1/2" = 1'-0" (15)

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125726 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/28/2026

SGPA
ARCHITECTURE AND PLANNING
3111 CAMINO DEL RIO NORTH,
STUDIO 500
SAN DIEGO, CA 92108
619.297.0131
WWW.SGPA.COM

LICENSED ARCHITECT
STEPHANIE B. MAU
NO. C-34108
REN. AUG 31, 27
STATE OF CALIFORNIA

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KERN HIGH SCHOOL DISTRICT
5801 SUNDALE AVE.
BAKERSFIELD, CA 93309

CENTRAL VALLEY HIGH SCHOOL
CONTINUATION HIGH SCHOOL CAMPUS
526 MANNEL AVENUE
SHAFTER, CA 93263

DRAWING SUBMITTAL SCHEDULE

100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO: 22434-E-02

DETAILS - SITE

A-812

Autodesk Docs://KHSD_Central Valley Continuation HS/22434_Central Valley CHS_R23.rvt
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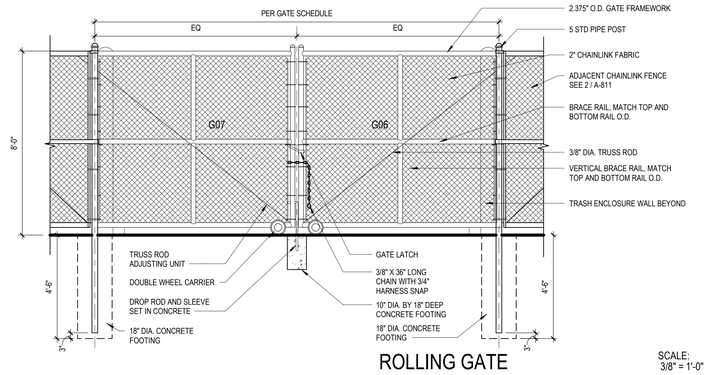
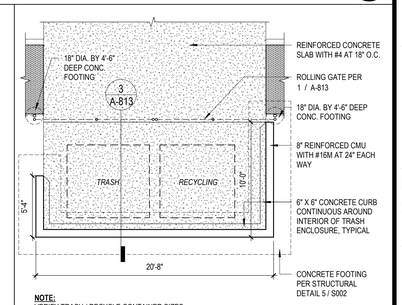


ROLLING GATE

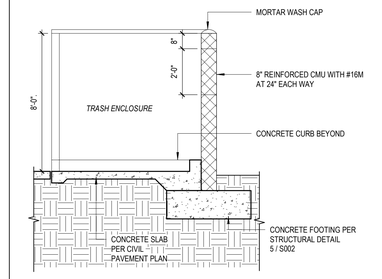
SCALE: 3/8" = 1'-0" (1)



NOTE:
VERIFY TRASH / RECYCLE CONTAINER SIZES & QUANTITIES PRIOR TO CONSTRUCTION.

TRASH ENCLOSURE - PLAN

SCALE: 3/16" = 1'-0" (2)



TRASH ENCLOSURE - SECTION

SCALE: 3/8" = 1'-0" (3)

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125726 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/28/2026

SGPA
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LICENSED ARCHITECT
STEPHANIE B. MAY
No. C34108
REN. AUG 31, 27
STATE OF CALIFORNIA

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BAKERSFIELD, CA 93309

CENTRAL VALLEY HIGH SCHOOL
CONTINUATION HIGH SCHOOL CAMPUS
526 MANNEL AVENUE
SHAFTER, CA 93263

DRAWING SUBMITTAL SCHEDULE

DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO: 22434-E-02

DETAILS - SITE

A-813

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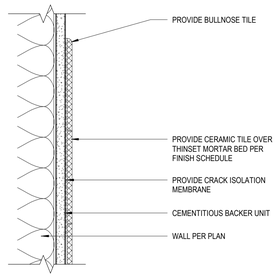
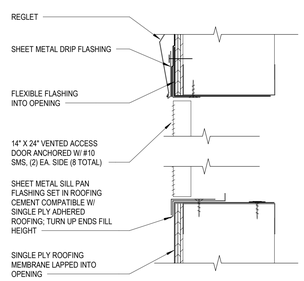
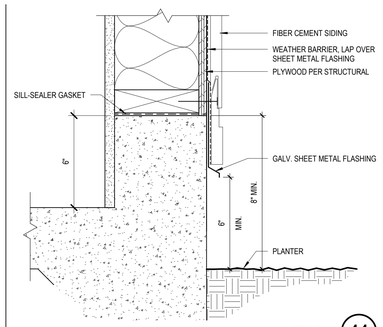


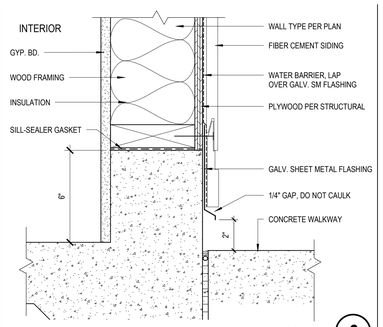
TILE @ BATHROOM SCALE: 3" = 1'-0" 21



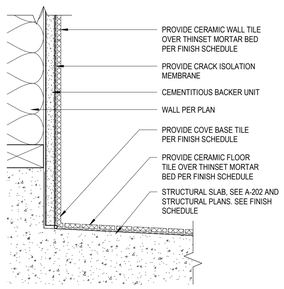
TYP. ACCESS PANEL AT HIGH ROOF SCALE: 3" = 1'-0" 16



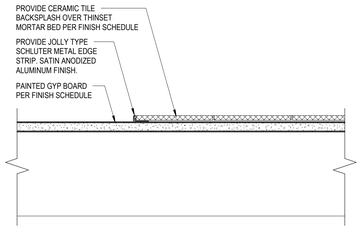
WALL @ PLANTER SCALE: 3" = 1'-0" 11



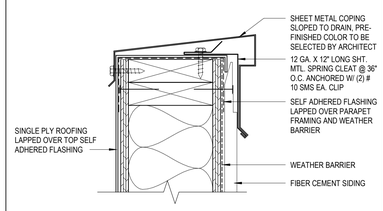
HARDSCAPE CLEARANCES SCALE: 3" = 1'-0" 6



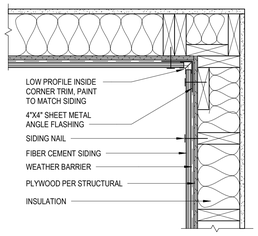
TILE @ BATHROOM BASE SCALE: 3" = 1'-0" 22



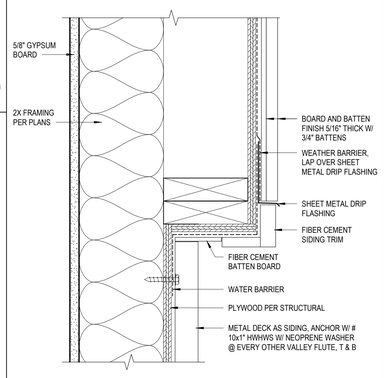
WALL TILE TRANSITION SCALE: 3" = 1'-0" 17



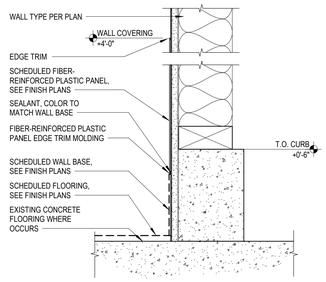
PARAPET COPING SCALE: 3" = 1'-0" 12



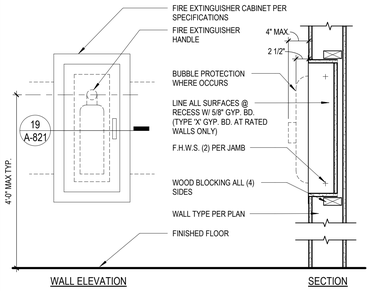
ARTISAN SIDING - INSIDE CORNER SCALE: 1 1/2" = 1'-0" 7



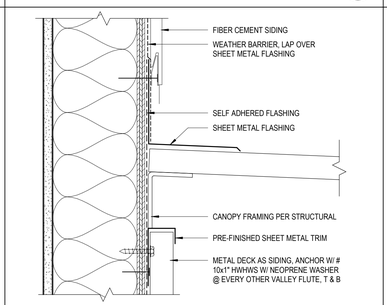
VERTICAL MATERIAL TRANSITION @ FURRED WALL SCALE: 3" = 1'-0" 3



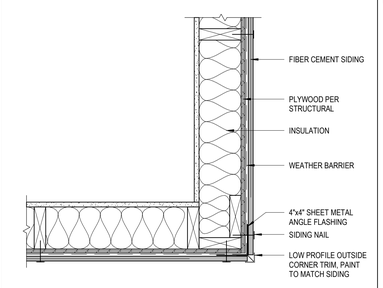
FIBER-REINFORCED PLASTIC WALL COVERING SCALE: 3" = 1'-0" 23



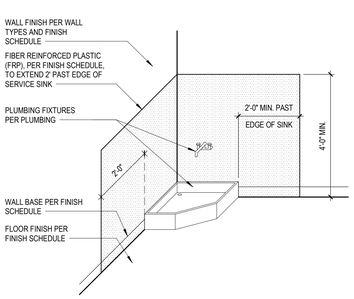
FIRE EXTINGUISHER CABINET SCALE: 1" = 1'-0" 18



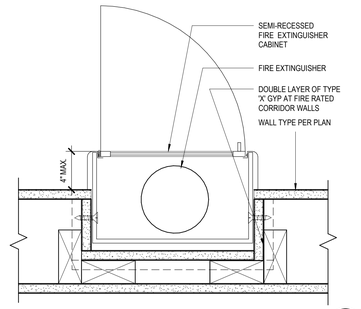
WALKWAY CANOPY AT METAL SIDING SCALE: 3" = 1'-0" 13



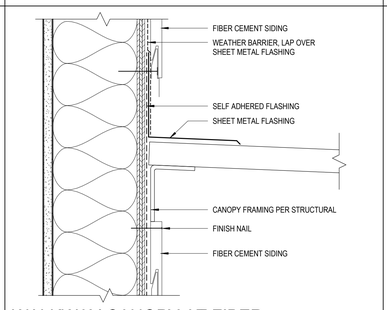
ARTISAN SIDING - OUTSIDE CORNER SCALE: 1 1/2" = 1'-0" 8



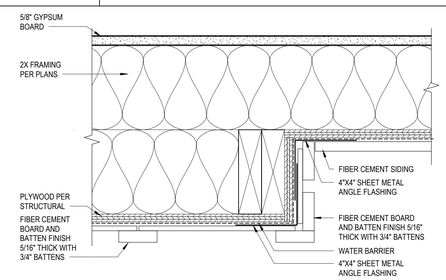
MOP SINK SCALE: 1/2" = 1'-0" 24



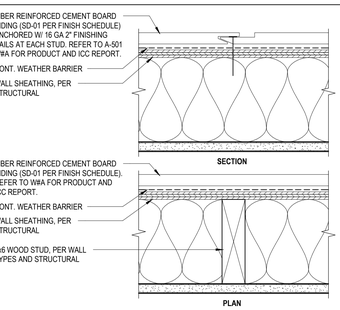
FIRE EXTINGUISHER CABINET SCALE: 3" = 1'-0" 19



WALKWAY CANOPY AT FIBER CEMENT SIDING SCALE: 3" = 1'-0" 14

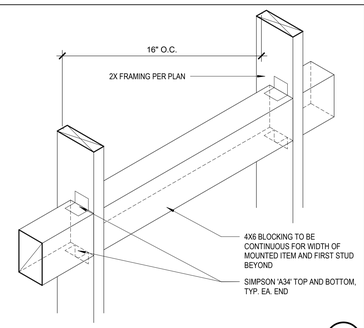


HORIZONTAL MATERIAL TRANSITION @ FURRED WALL - HARDIE SIDING SCALE: 3" = 1'-0" 4

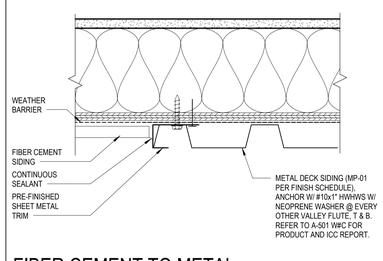


FIBER CEMENT BOARD AND BATTEN ANCHORAGE TYP. SCALE: 3" = 1'-0" 30

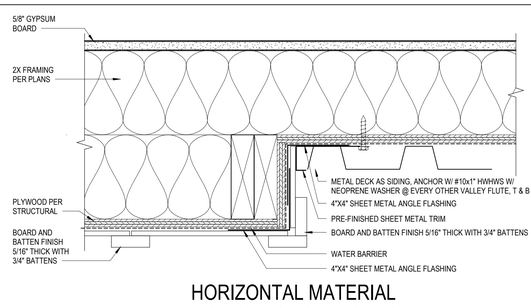
FIBER CEMENT SIDING ANCHORAGE TYP. SCALE: 3" = 1'-0" 25



BACKING - WOOD SCALE: 1 1/2" = 1'-0" 20



FIBER CEMENT TO METAL SIDING SCALE: 3" = 1'-0" 15



HORIZONTAL MATERIAL TRANSITION @ FURRED WALL - METAL SIDING SCALE: 3" = 1'-0" 5

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125726 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/28/2026

SGPA
ARCHITECTURE AND PLANNING
3111 CAMINO DEL RIO NORTH,
STUDIO 500
SAN DIEGO, CA 92108
619.297.0131
WWW.SGPA.COM

LICENSED ARCHITECT
STEPHANIE B. AMES
NO. C34108
REN. AUG 31, 27
STATE OF CALIFORNIA

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KERN HIGH SCHOOL DISTRICT
5801 SUNDALE AVE.
BAKERSFIELD, CA 93309

CENTRAL VALLEY HIGH SCHOOL
CONTINUATION HIGH SCHOOL CAMPUS
526 MANNEL AVENUE
SHAFTER, CA 93263

DRAWING SUBMITTAL SCHEDULE

	100% DD SET	07/08/2025
	50% CONSTRUCTION DOCUMENTS	10/10/2025
	100% CONSTRUCTION DOCUMENTS	11/21/2025
	DWG V3	04/28/2026

PROJECT NO:22434-E-02

DETAILS - WALL

A-821

Autodesk Docs://KNSD - Central Valley Continuation HS\22434_Central Valley CHS_R23.rvt
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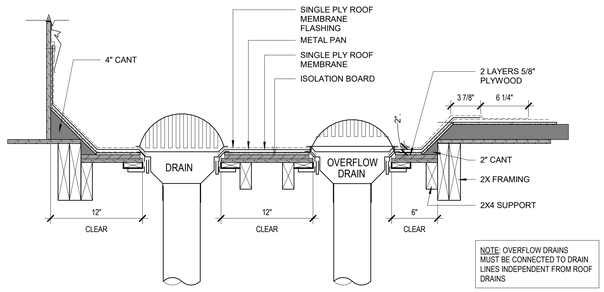
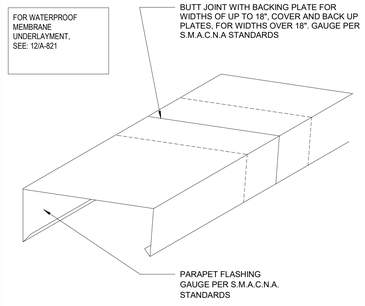
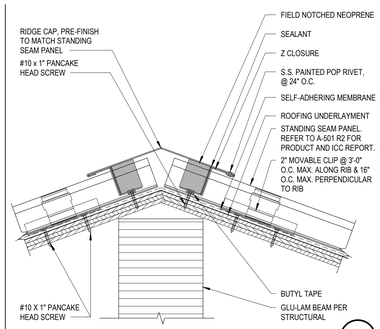


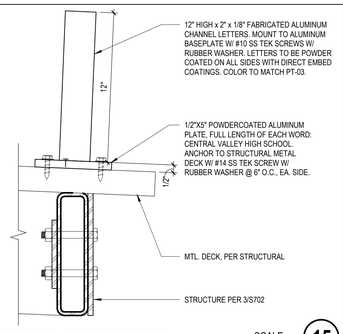
ROOF DRAIN & OVERFLOW SCALE: 1 1/2" = 1'-0" 11



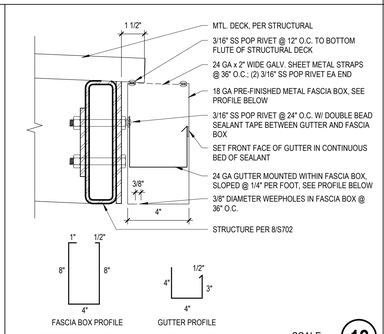
TYPICAL COPING JOINT SCALE: 3" = 1'-0" 6



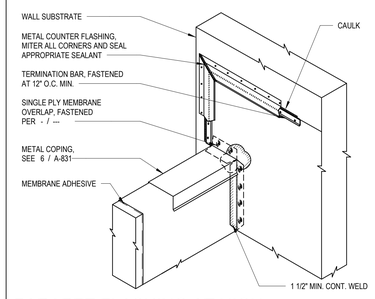
STANDING SEAM - RIDGE SCALE: 3" = 1'-0" 1



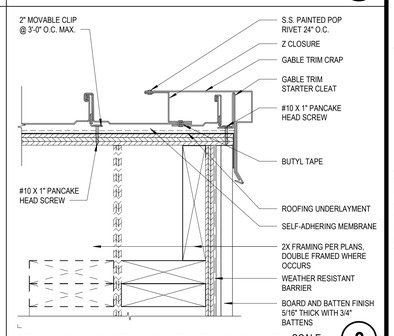
SIGNAGE AT CANOPY SCALE: 3" = 1'-0" 15



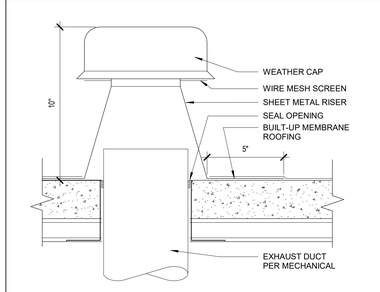
GUTTER AT CANOPY EDGE SCALE: 3" = 1'-0" 12



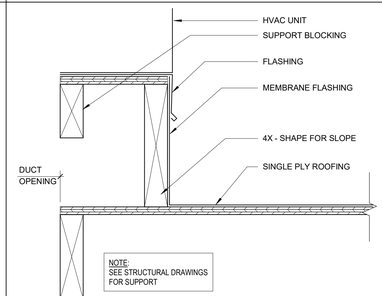
PARAPET FLASHING AT HIGH WALL SCALE: 6" = 1'-0" 7



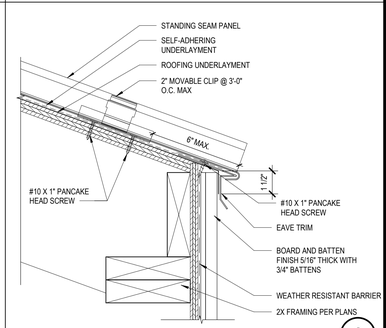
STANDING SEAM - GABLE RAKE SCALE: 3" = 1'-0" 2



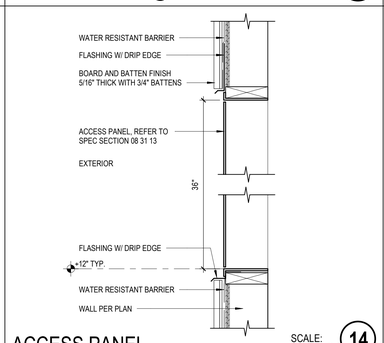
EXHAUST VENT @ ROOF SCALE: 3" = 1'-0" 13



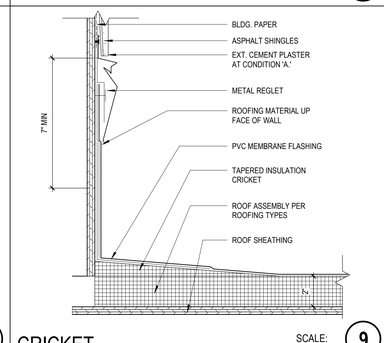
HVAC PLATFORM SCALE: 3" = 1'-0" 8



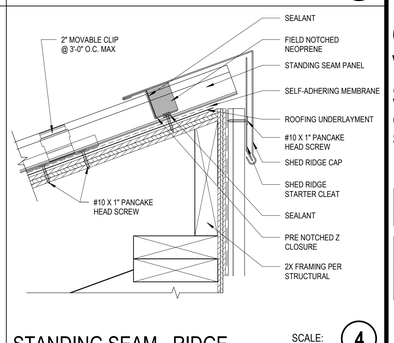
STANDING SEAM - EAVE SCALE: 3" = 1'-0" 3



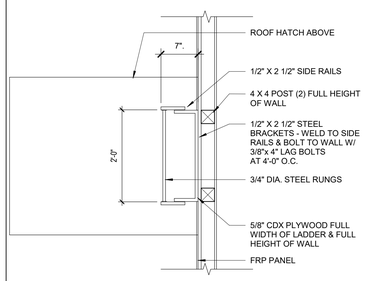
ACCESS PANEL SCALE: 1 1/2" = 1'-0" 14



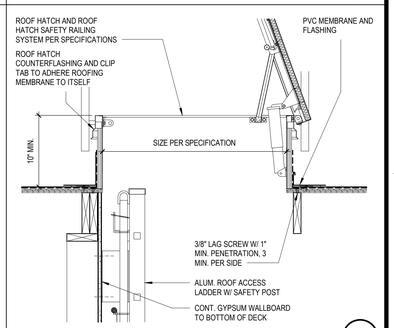
CRICKET SCALE: 3" = 1'-0" 9



STANDING SEAM - RIDGE SCALE: 3" = 1'-0" 4



ROOF LADDER SCALE: 3/4" = 1'-0" 10



ROOF HATCH SCALE: 1" = 1'-0" 5

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	100% CONSTRUCTION DOCUMENTS	11/21/2025
	DWG V3	04/28/2026

PROJECT NO:22434-E-02

DETAILS - ROOF

A-831

Autodesk Docs://KHSD - Central Valley Continuation HS\22434_Central Valley CHS_R23.rvt
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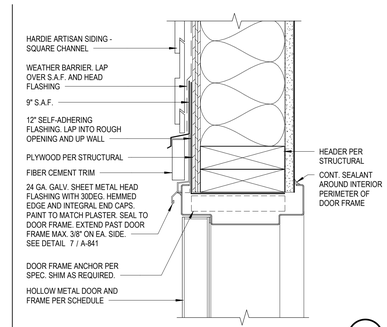
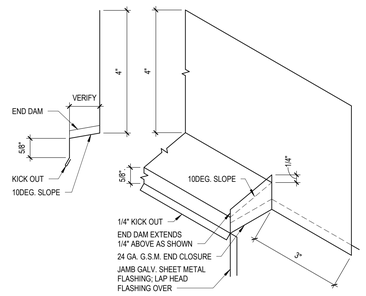


HM DOOR HEAD @ HARDIE

SCALE: 3" = 1'-0"

1

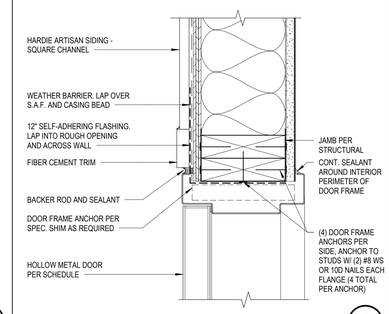


GSM HEAD FLASHING

REF: #38_FLASHING

SCALE: 6" = 1'-0"

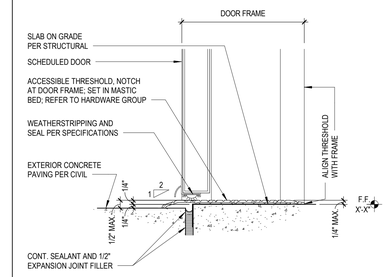
7



HM DOOR JAMB @ HARDIE

SCALE: 3" = 1'-0"

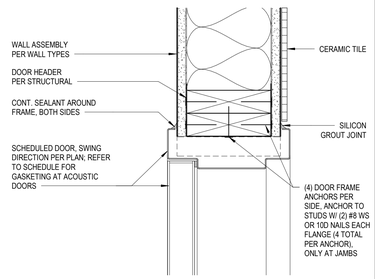
2



HM DOOR THRESHOLD

SCALE: 3" = 1'-0"

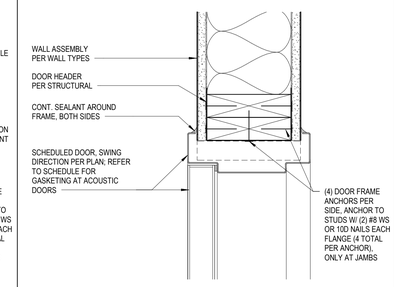
3



INT HM DOOR HEAD/JAMB @ TILE

SCALE: 3" = 1'-0"

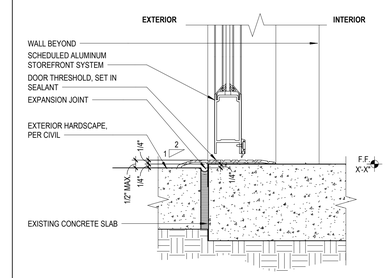
9



INT HM DOOR HEAD/JAMB

SCALE: 3" = 1'-0"

4



STOREFRONT DOOR SILL

SCALE: 3" = 1'-0"

5

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DRAWING SUBMITTAL SCHEDULE

	50% CONSTRUCTION DOCUMENTS	10/10/2025
	100% CONSTRUCTION DOCUMENTS	11/21/2025
	DWG V2	02/27/2026
	DWG V3	04/28/2026

PROJECT NO: 22434-E-02

DETAILS - DOORS

A-841

Autodesk Docs://KHSD_Central Valley Continuation HS/22434_Central Valley CVS_R23.rvt
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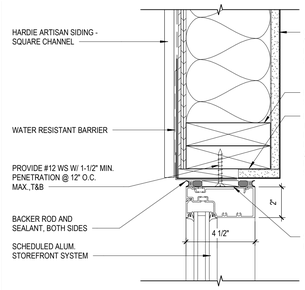
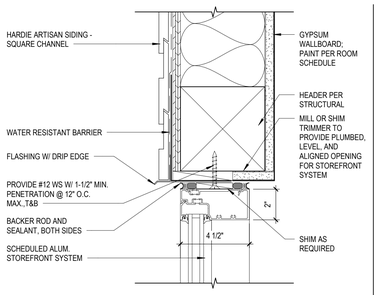


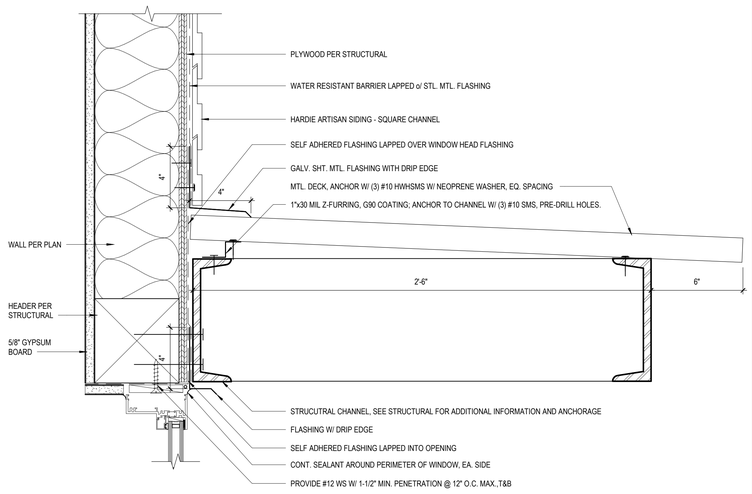
STOREFRONT JAMB @ HARDIE SIDING

SCALE: 3" = 1'-0" 26



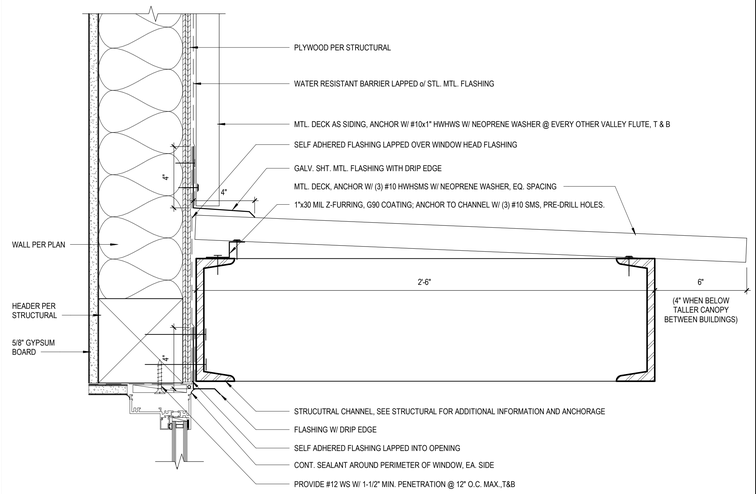
STOREFRONT HEAD @ HARDIE SIDING

SCALE: 3" = 1'-0" 21



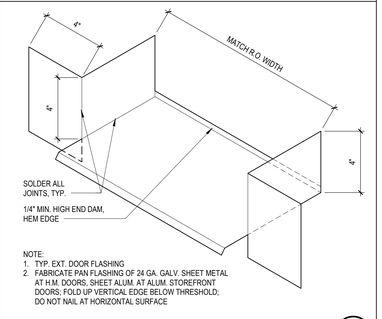
HEADER W/ HSS EYEBROW CANOPY @ HARDIE SIDING

SCALE: 3" = 1'-0" 12



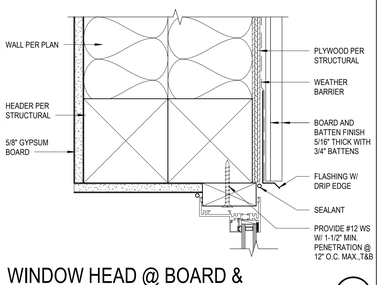
HEADER W/ HSS EYEBROW CANOPY @ METAL SIDING

SCALE: 3" = 1'-0" 2



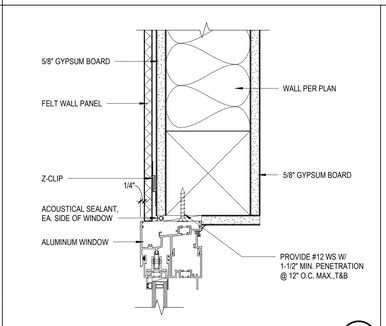
GSM SILL FLASHING

SCALE: 3" = 1'-0" 22



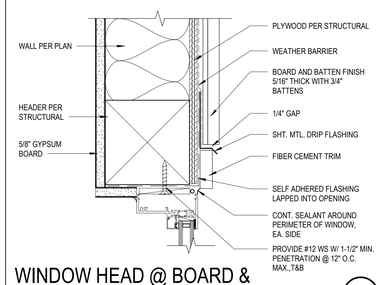
WINDOW HEAD @ BOARD & BATTEN SIDING - DOUBLE WALL

SCALE: 3" = 1'-0" 23



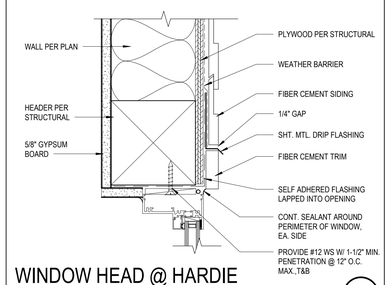
INTERIOR WINDOW HEAD

SCALE: 3" = 1'-0" 18



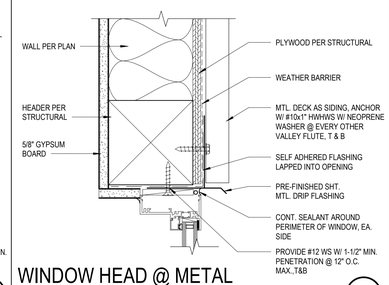
WINDOW HEAD @ BOARD & BATTEN SIDING

SCALE: 3" = 1'-0" 13



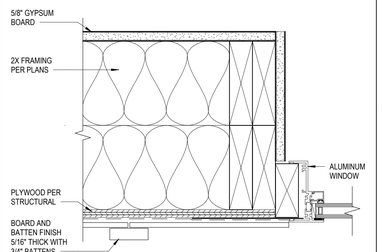
WINDOW HEAD @ HARDIE SIDING

SCALE: 3" = 1'-0" 8



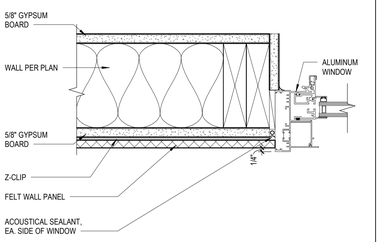
WINDOW HEAD @ METAL SIDING

SCALE: 3" = 1'-0" 3



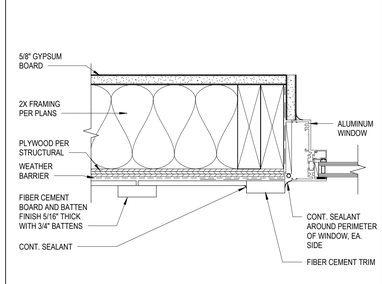
WINDOW JAMB @ BOARD & BATTEN SIDING - DOUBLE WALL

SCALE: 3" = 1'-0" 24



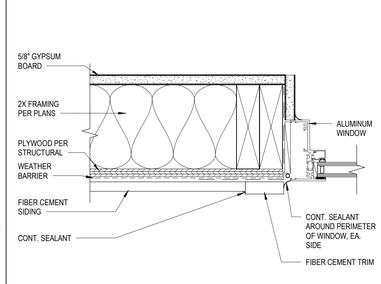
INTERIOR WINDOW JAMB

SCALE: 3" = 1'-0" 19



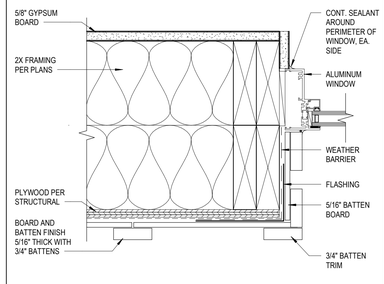
WINDOW JAMB @ BOARD & BATTEN SIDING

SCALE: 3" = 1'-0" 14



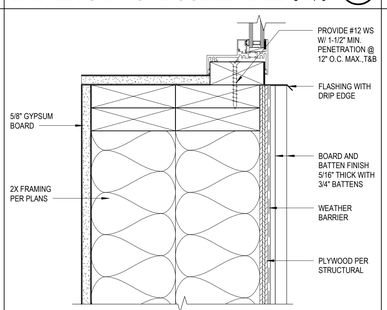
WINDOW JAMB @ HARDIE SIDING

SCALE: 3" = 1'-0" 9



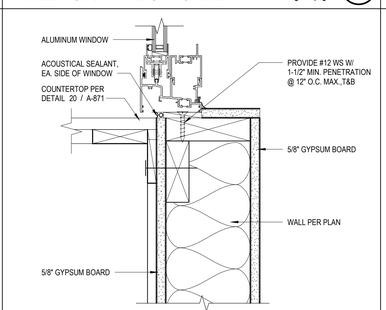
WINDOW JAMB @ FURRED WALL

SCALE: 3" = 1'-0" 4



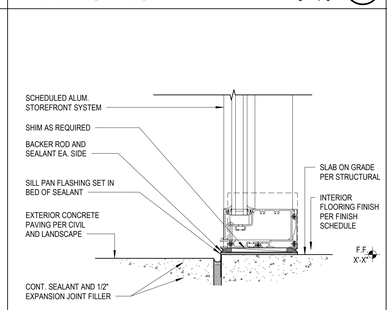
WINDOW SILL @ BOARD & BATTEN SIDING - DOUBLE WALL

SCALE: 3" = 1'-0" 25



INTERIOR WINDOW SILL

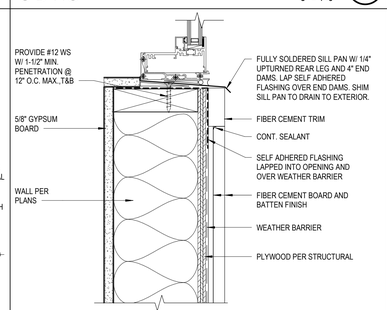
SCALE: 3" = 1'-0" 20



STOREFRONT SILL @ SLAB

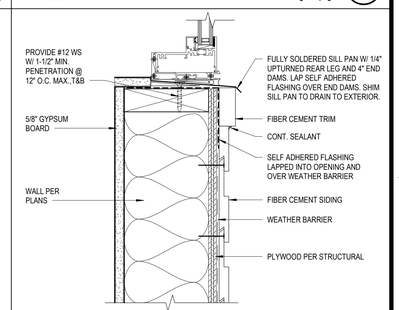
REF.: #.08_EXT

SCALE: 3" = 1'-0" 15



WINDOW SILL @ BOARD & BATTEN SIDING

SCALE: 3" = 1'-0" 10



WINDOW SILL @ HORIZONTAL SIDING

SCALE: 3" = 1'-0" 5

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SS ☑ FLS ☑ ACS ☑
DATE: 04/28/2026

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STEPHANIE B. AMES
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STATE OF CALIFORNIA

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KERN HIGH SCHOOL DISTRICT
5801 SUNDALE AVE.
BAKERSFIELD, CA 93309

CENTRAL VALLEY HIGH SCHOOL
CONTINUATION HIGH SCHOOL CAMPUS
526 MANNEL AVENUE
SHAFTER, CA 93263

DRAWING SUBMITTAL SCHEDULE

50% CONSTRUCTION DOCUMENTS	10/10/2025
100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO:22434-E-02

DETAILS - WINDOWS

A-851

Autodesk Docs://NUSD - Central Valley Continuation HS/22434_Central Valley CHS_R23.rvt
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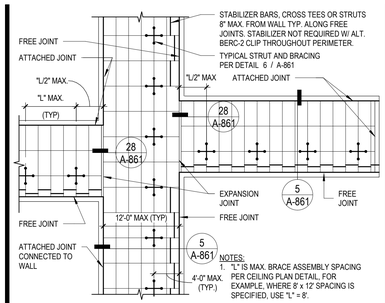


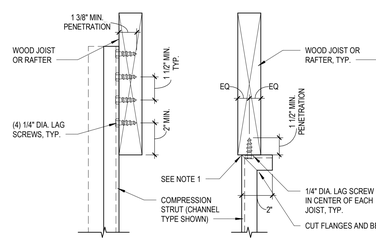
CORRIDOR CEILING PLAN (SCHOOL BUILDINGS)

SCALE: 3" = 1'-0" — 26

NOTES:
1. WEB OF CHANNEL TO BEAR WITHIN WIDTH OF WOOD MEMBER.
2. SEE DETAIL - / --- FOR ADDITIONAL INFORMATION.
3. NO. 14 WOOD SCREW MAY BE USED IN LIEU OF 1/4" LAG SCREW.

CHANNEL STRUT CONNECTION TO I-JOIST

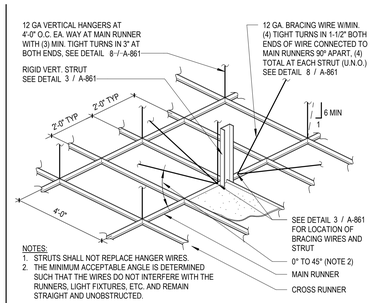
SCALE: 1 1/2" = 1'-0" — 21



NOTE:
1. WEB OF CHANNEL TO BEAR WITHIN WIDTH OF WOOD MEMBER.
2. SEE DETAIL - / --- FOR MORE INFORMATION
3. NO. 14 WOOD SCREW MAY BE USED IN LIEU OF 1/4" LAG SCREW.

CHANNEL STRUT TO WOOD W/O GYPSUM BOARD

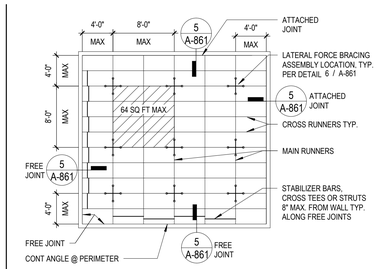
SCALE: 3" = 1'-0" — 11



NOTES:
1. STRUTS SHALL NOT REPLACE HANGER WIRES.
2. THE MINIMUM ACCEPTABLE ANGLE IS DETERMINED SUCH THAT THE WIRES DO NOT INTERFERE WITH THE RUNNERS, LIGHT FIXTURES, ETC. AND REMAIN STRAIGHT AND UNOBSTRUCTED.

SUSPENSION AND LATERAL BRACING ASSEMBLY

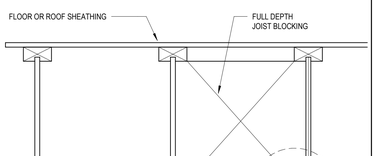
SCALE: 3" = 1'-0" — 6



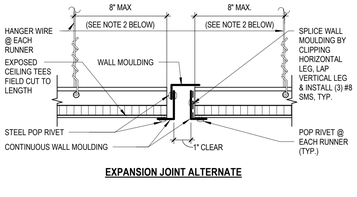
NOTE:
BRACING WIRES AND COMP. STRUT SHALL OCCUR AT EVERY 64 SQ. FT. MAX. IN ROOMS OVER 144 SQ. FT.

ACT DIAGRAMMATIC - 8'x8' BRACE ASSEMBLY

SCALE: 1/8" = 1'-0" — 1



EXPANSION JOINT

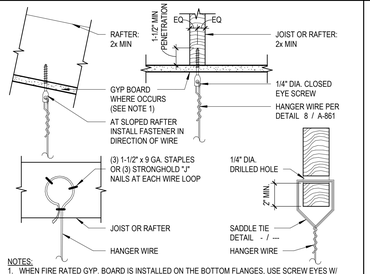


EXPANSION JOINT ALTERNATE

NOTES:
1. DETAIL APPLIES TO EXPANSION JOINTS AT THE INTERSECTION OF CORRIDORS AND AT THE JUNCTIONS OF CORRIDORS AT LOBBIES AND OTHER SIMILAR AREAS.
2. PROVIDE #12 GAGE HANGER WIRES AT THE ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN EIGHT (8) INCHES OF THE SUPPORT OR WITHIN ONE-FOURTH (1/4) OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS, FOR THE PERIMETER OF THE CEILING AREA.
3. PERIMETER WIRES ARE NOT REQUIRED WHEN THE LENGTH OF THE END TEE IS EIGHT (8) INCHES OR LESS.

EXPANSION JOINT (SCHOOL BUILDINGS)

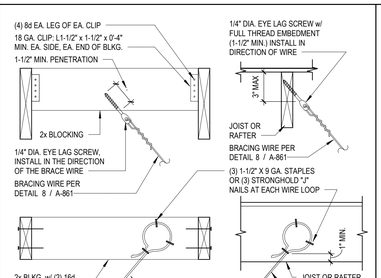
SCALE: 3" = 1'-0" — 28



NOTES:
1. WHEN FIRE RATED GYP. BOARD IS INSTALLED ON THE BOTTOM FLANGES, USE SCREW EYES W/ SUFFICIENT LENGTH TO AVOID DAMAGING THE FIRE RATED GYP. BOARD AND MEET MIN. PENETRATION.

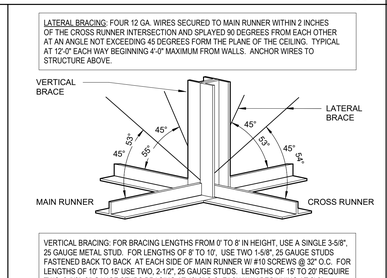
HANGER WIRE CONNECTION TO SAWN TIMBER

SCALE: 1 1/2" = 1'-0" — 22



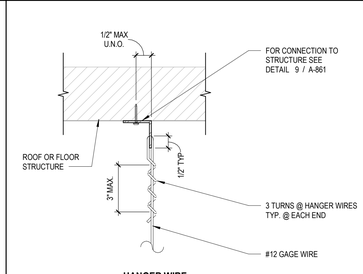
BRACING WIRE CONNECTION TO SAWN TIMBER

SCALE: 1 1/2" = 1'-0" — 17

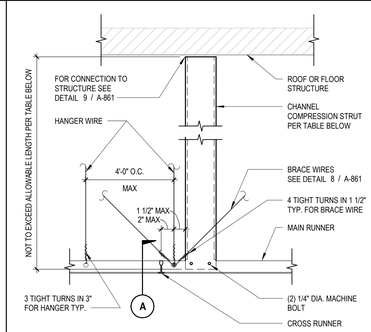


LATERAL BRACING

SCALE: 12" = 1'-0" — 12



HANGER WIRE



BRACING WIRE

A - SECTION
SCALE: 3" = 1'-0"

CHANNEL COMPRESSION STRUT	MAXIMUM LENGTH
250S125-33	5'-0"
250S137-33	6'-10"
362S137-33	8'-0"
250S137-43	8'-10"
400S137-43	10'-10"

SUSPENDED ACT CEILING - CHANNEL STRUT

SCALE: 1 1/2" = 1'-0" — 3

NOTES:
1. WHEN FIRE RATED GYP. BOARD IS INSTALLED ON THE BOTTOM FLANGES, USE SCREW EYES W/ SUFFICIENT LENGTH TO AVOID DAMAGING THE FIRE RATED GYP. BOARD AND MEET MIN. PENETRATION.

HANGER WIRE CONNECTION TO WOOD I-JOIST

SCALE: 1 1/2" = 1'-0" — 23

1. CEILING SYSTEM GENERAL NOTES
1.01 Ceiling system components shall comply with ASTM C635 and Section 5.1 of ASTM E580.
1.02 The ceiling grid system must be rated heavy duty as defined by ASTM C635.
1.03 Ceiling systems. The following ceiling system(s) is/are part of the scope of this project:
Manufacturer: ***ARMSTRONG (ACT-01 IN FINISH SCHEDULE)***
Product Name: ***CORTEGA WITH PRELUDE XL SUSPENSION SYSTEM***
Evaluation Report Type and Number: ***ICC-ESR 1308***
Main Runner Part, Model, or Catalog Number: ***7300***
Cross Runner Part, Model, Catalog Number: ***7357***
1.04 Seismic Wall Clip.
Manufacturer's Model: ***BERC-2 CLIP***
1.05 Ceiling panels shall not support any luminaires, air terminals or devices.
1.06 For acoustic tile panels of any material other than mineral or glass fiber, a 3/4" clearance shall be provided between the panel and the wall on the sides of the ceiling free to slip. Clearance between ceiling grid runners and walls shall comply with the details on these drawings regardless of ceiling tile material.

2. MATERIALS
2.01 Ceiling wire shall be Class 1 zinc coated (galvanized) carbon steel conforming to ASTM A641. Wire shall be #12 gauge (0.106" diameter) with soft temper and minimum ultimate tensile strength = 70 ksi.
2.02 Galvanized sheet steel (including that used for metal stud compression struts) shall conform to ASTM A653, or other equivalent sheet steel listed in Section A3.1 of the North American Specification for the Design of Cold-Formed Steel Structural Members, (AISI S100). Material 43 mil (18 gauge) and lighter shall have minimum yield strength of 33 ksi. Material 54 mil (16 gauge) and heavier shall have a minimum yield strength of 50ksi.
2.03 Electrical metallic tube (EMT) shall be ANSI C80.3/UL 797 carbon steel with G90 galvanizing. EMT shall have minimum yield strength (FY) of 30 ksi and minimum ultimate strength (FU) of 48 ksi.

3. ATTACHMENT OF HANGER AND BRACING WIRES
3.01 All ceiling hanger and bracing wires shall be separated at least 6 inches from all unbraced ducts, pipes, conduit, etc.
3.02 Hanger and bracing wires shall not attach to or bend around obstructions including but not limited to piping, ductwork, conduit and equipment.
3.03 Hanger wires that are more than one (horizontal) in six (vertical) out of plumb shall have counter-sloping wires.
3.04 Slack safety wires shall be considered hanger wires for installation and testing requirements.
3.05 Hanger and bracing wire anchorage to the structure shall be installed such that the direction of the anchorage aligns with the direction of the wire. Bracing wire ceiling clips shall be bent as shown in the details and rotated as required to align with the direction of the wire. Screws in wood shall be installed to align with the direction of the wire.

4. FASTENERS AND WELDING
4.01 Sheet metal screws shall comply with ASTM C1513 and ASME B18.6.3. Penetration of screws through joined material shall not be less than three exposed threads.
4.02 Expansion anchors shall be: ***NOT APPLICABLE***
4.03 Power-Actuated Fasteners shall be: ***NOT APPLICABLE***
4.04 If not otherwise specified in the evaluation report, power-actuated fasteners installed in steel shall be installed so the entire pointed end of the fastener is driven through the steel member
4.05 Power-actuated fasteners in concrete or masonry are not permitted for bracing wires.
4.06 Concrete reinforcement and prestressing tendons shall be located by non-destructive means prior to installing post-installed anchors.
4.07 Welding shall be in accordance with AWS D1.3 using E60XX series electrodes.

5. TESTING
5.01 All field testing must be performed in the presence of the project inspector.
5.02 Post-installed anchors in concrete used to support hanger wires shall be tested at a frequency of 10 percent. Power-actuated fasteners in concrete shall be field tested for 200 pounds in tension. All other post-installed anchors in concrete shall be tested in accordance with CBC Section 1910A.5.
5.03 Post-installed anchors in concrete used to attach bracing wires shall be tested at a frequency of 50 percent in accordance with CBC Section 1910A.5.

6. LUMINAIRES
6.01 All luminaires shall be positively attached to the ceiling suspension systems by mechanical means to resist a horizontal force equal to the weight of the luminaire. A minimum of two screws or approved fasteners are required at each luminaire, per ASTM E580 Section 5.3.1.
6.02 Surface-mounted luminaires shall be attached to the main runner with at least two positive clamping devices. The clamping device shall completely surround the supporting ceiling runner and be made of steel with a minimum thickness of #14 gauge. Rotational spring catches do not comply. A #12 gauge slack safety wire shall be connected from each clamping device to the structure above. Provide additional supports when a luminaire is 8 feet or longer or exceeds 56 pounds. Maximum spacing between supports shall not exceed 8 feet.
6.03 Luminaires weighing less than or equal to 10 pounds supported directly on the ceiling runners shall have a minimum of one #12 gauge slack safety wire connected from the fixture housing to the structure above.
6.04 Luminaires weighing greater than 10 pounds but less than or equal to 56 pounds may be supported directly on the ceiling runners, but they shall have a minimum of two #12 gauge slack safety wires connected from the fixture housing at diagonal corners to the structure above.
Exception: All luminaires greater than two by four feet weighing less than 56 pounds shall have a #12 gauge slack safety wire at each corner.
6.05 All luminaires weighing greater than 56 pounds shall be independently supported by not less than four taut #12 gauge hanger wires (one at each corner) attached from the fixture housing to the structure above or other approved hangers. The four taut #12 gauge wires or other approved hangers, including their attachment to the structure above, shall be capable of supporting four times the weight of the fixture.

7. SERVICES WITHIN THE CEILING
7.01 All flexible sprinkler hose fitting mounting brackets, ceiling-mounted air terminals or other services shall be positively attached to the ceiling suspension systems by mechanical means. Screws or approved fasteners are required. A minimum of two attachments are required at each component.
7.02 Ceiling-mounted air terminals or other services weighing less than or equal to 20 pounds shall have one #12 gauge slack safety wire attached from the terminal or service to the structure above.
7.03 Flexible sprinkler hose fittings, ceiling-mounted air terminals or other services weighing more than 20 pounds but less than or equal to 56 pounds shall have two #12 gauge slack safety wires (at diagonal corners) connected from the terminal or service to the structure above.
7.04 Flexible sprinkler hose fittings, ceiling-mounted air terminals or other services weighing more than 56 pounds shall be supported directly from the structure above by not less than four taut #12 gauge hanger wires attached from the terminal or service to the structure above or other approved hangers.

8. OTHER DEVICES WITHIN THE CEILING
8.01 All lightweight miscellaneous devices, such as strobe lights, occupancy sensors, speakers, exit signs, etc., shall be attached to the ceiling grid. In addition, devices weighing more than 10 pounds shall have a # 12 gauge slack safety wire anchored to the structure above. Devices weighing more than 20 pounds shall be supported independently from the structure above.

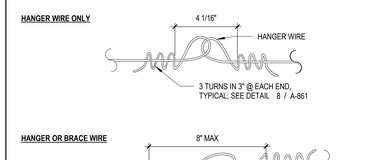
SUSPENDED ACT CEILING NOTES

SCALE: 1" = 1'-0" — 20

NOTE:
INSTALL ALL FIXTURES PER MANUFACTURER'S REQUIREMENTS

ACT CEILING LIGHTING SUPPORT

SCALE: 3/4" = 1'-0" — 13



NOTES:
1. WIRE SPLICES ARE SHOWN LOOSELY TIED FOR ILLUSTRATIVE PURPOSES ONLY AND SHALL BE DRAWN TIGHT TO COMPLETE INSTALLATION WHEN CONSTRUCTED.
2. WIRE LOOPS SHALL BE TIGHTLY WRAPPED AND SHARPLY BENT TO PREVENT ANY VERTICAL MOVEMENT OR ROTATION WITHIN THE LOOPS.
3. EACH WIRE SHALL BE SPLICED NO MORE THAN ONCE ALONG ITS LENGTH.

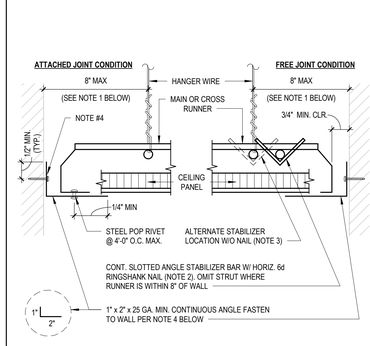
CEILING WIRE SPLICES

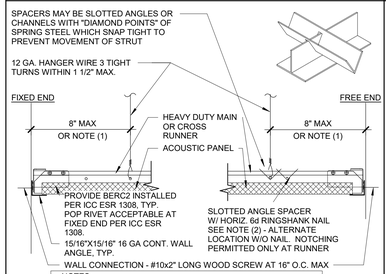
SCALE: 3" = 1'-0" — 14

STRUCTURAL CONDITION OF FLOOR/ ROOF ABOVE CEILING	COMPRESSION CHANNEL STRUT	BRACING WIRE DETAIL	HANGER WIRE DETAIL	BLDG APPLICABLE
SAWN TIMBER W/O GYP BOARD	11 / A-861	17 / A-861	22 / A-861	100 & 200
WOOD I-JOIST	21 / A-861	30 / A-861 25 / A-861	23 / A-861	100 & 200

SUSPENDED ACT DETAIL ANCHORAGE REFERENCES

SCALE: 1 1/2" = 1'-0" — 9

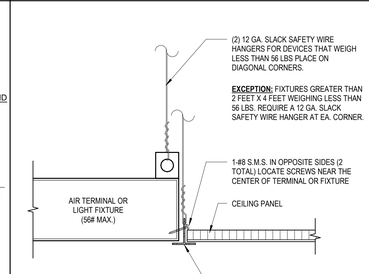




NOTES:
(1) 1/4" OF THE LENGTH OF THE END RUNNER, WHICHEVER IS LESS
(2) NAILS AT ENDS OF HORIZ. STRUTS ARE TO BE PLACED WITH NAIL HEAD TOWARD CENTERLINE OF SPAN OF STRUT.

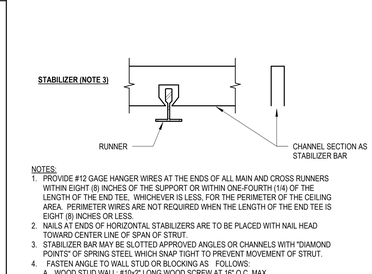
SUSPENDED ACT DETAIL ANCHORAGE REFERENCES

SCALE: 3" = 1'-0" — 15



SUSPENDED LUMINAIRE / AIR TERMINAL SUPPORT

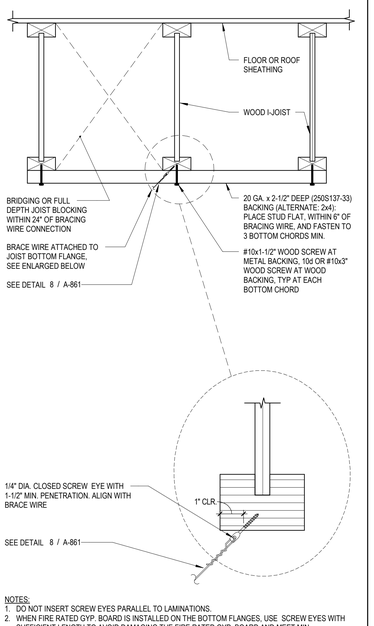
SCALE: 3" = 1'-0" — 10



NOTES:
1. PROVIDE #12 GAGE HANGER WIRES AT THE ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN EIGHT (8) INCHES OF THE SUPPORT OR WITHIN ONE-FOURTH (1/4) OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS, FOR THE PERIMETER OF THE CEILING AREA. PERIMETER WIRES ARE NOT REQUIRED WHEN THE LENGTH OF THE END TEE IS EIGHT (8) INCHES OR LESS.
2. NAILS AT ENDS OF HORIZONTAL STABILIZERS ARE TO BE PLACED WITH NAIL HEAD TOWARD CENTER LINE OF SPAN OF STRUT.
3. STABILIZER BAR MAY BE SLOTTED APPROVED ANGLES OR CHANNELS WITH "DIAMOND POINTS" OF SPRING STEEL WHICH SNAP TIGHT TO PREVENT MOVEMENT OF STRUT.
4. FASTEN ANGLE TO WALL STUD OR BLOCKING AS FOLLOWS:
A. WOOD STUD WALL: #10x2" LONG WOOD SCREW AT 16" O.C. MAX

SUSPENDED ACT CEILING PERIMETER

SCALE: 3" = 1'-0" — 5



NOTES:
1. DO NOT INSERT SCREW EYES PARALLEL TO LAMINATIONS.
2. WHEN FIRE RATED GYP. BOARD IS INSTALLED ON THE BOTTOM FLANGES, USE SCREW EYES WITH SUFFICIENT LENGTH TO AVOID DAMAGING THE FIRE RATED GYP. BOARD AND MEET MIN. PENETRATION.

BRACE WIRE CONNECTION TO WOOD I-JOIST

SCALE: 1/2" = 1'-0" — 30

NOTES:
1. DO NOT INSERT SCREW EYES PARALLEL TO LAMINATIONS.
2. WHEN FIRE RATED GYP. BOARD IS INSTALLED ON THE BOTTOM FLANGES, USE SCREW EYES WITH SUFFICIENT LENGTH TO AVOID DAMAGING THE FIRE RATED GYP. BOARD AND MEET MIN. PENETRATION.

BRACE WIRE CONNECTION TO WOOD I-JOIST

SCALE: 1/2" = 1'-0" — 25

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125726 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 04/28/2026

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DRAWING SUBMITTAL SCHEDULE

50% CONSTRUCTION DOCUMENTS	10/10/2025
100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V3	04/28/2026

PROJECT NO:22434-E-02

DETAILS - CEILINGS

A-861

Autodesk Docs://NSD_Central Valley Construction HS/22434_Central Valley CHS_R23.rvt
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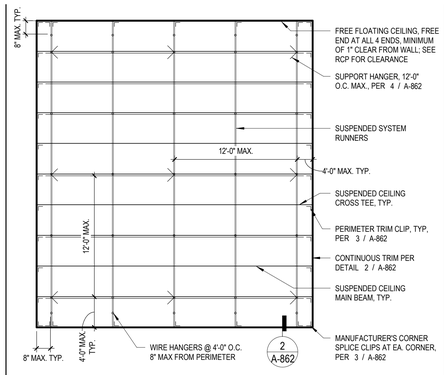
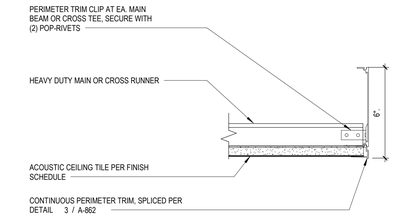


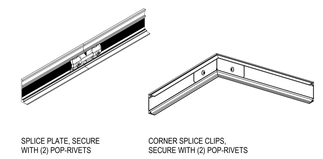
SUSPENDED FREE-FLOAT CEILING - DIAGRAMMATIC

SCALE: 1/4" = 1'-0" 1



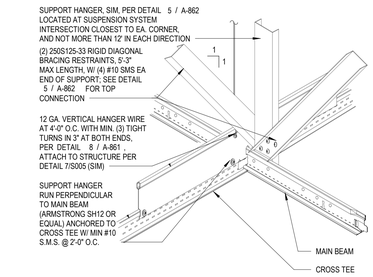
SUSPENDED FREE FLOAT CEILING PERIMETER TRIM

SCALE: 3" = 1'-0" 2



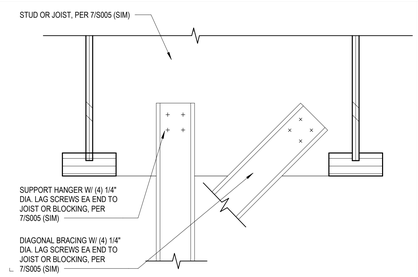
PERIMETER TRIM SPLICE PLATES

SCALE: 1" = 1'-0" 3



FREE-FLOAT CEILING SUPPORT HANGER

SCALE: 1" = 1'-0" 4



FREE-FLOAT CEILING SUPPORT - TOP

SCALE: 3" = 1'-0" 5

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	DWG V3	04/28/2026

PROJECT NO: 22434-E-02

DETAILS - CEILINGS

A-862

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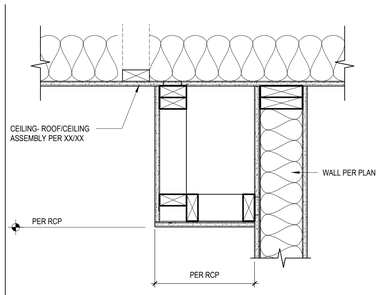
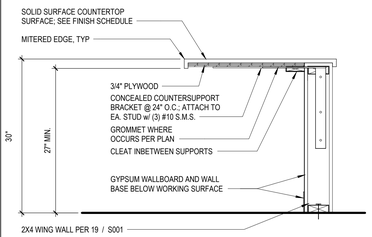
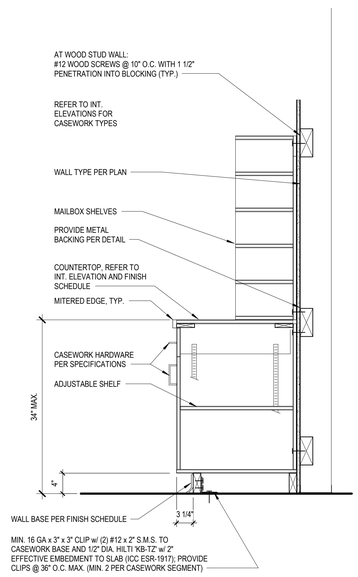


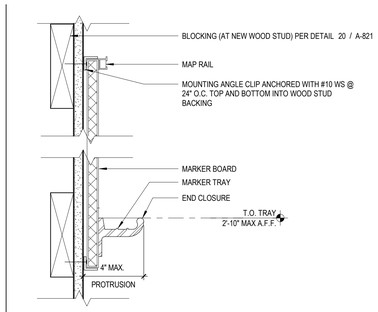
TYPICAL SOFFIT FRAMING — SCALE: 1 1/2" = 1'-0" — 21



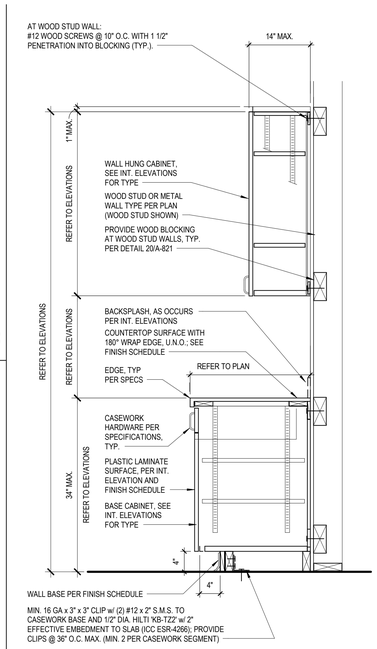
LOBBY CASEWORK 1 — SCALE: 1" = 1'-0" — 16



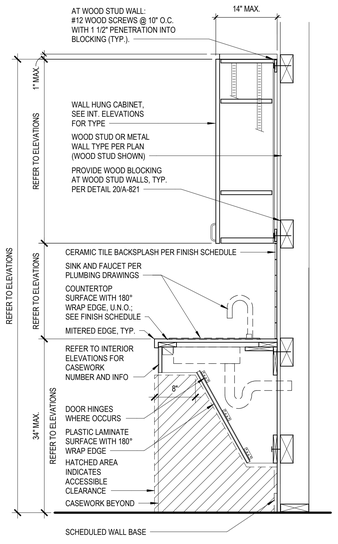
CASEWORK - MAILBOXES — SCALE: 1" = 1'-0" — 12



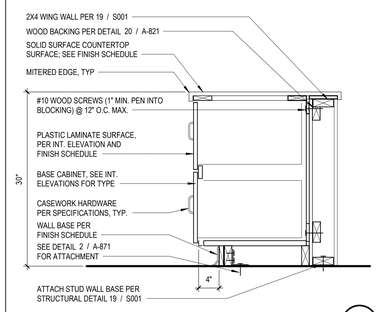
MARKERBOARD — SCALE: 3" = 1'-0" — 6



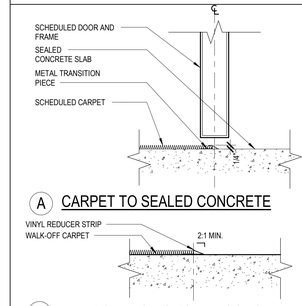
CASEWORK — SCALE: 1" = 1'-0" — 2



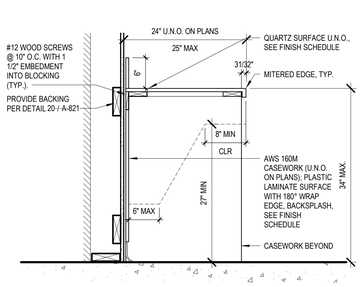
STAFF LOUNGE CASEWORK — SCALE: 1" = 1'-0" — 23



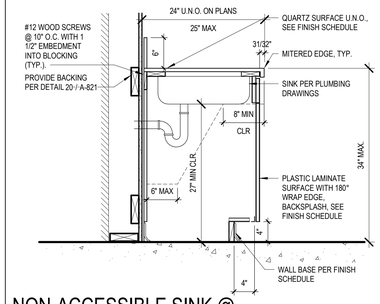
LOBBY CASEWORK 2 — SCALE: 1" = 1'-0" — 17



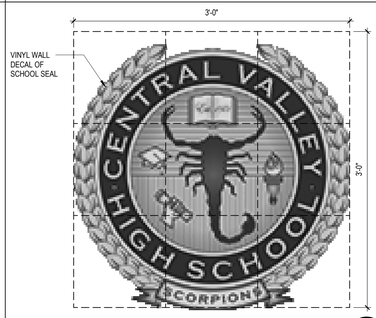
FLOOR TRANSITION DETAILS — SCALE: 3" = 1'-0" — 7



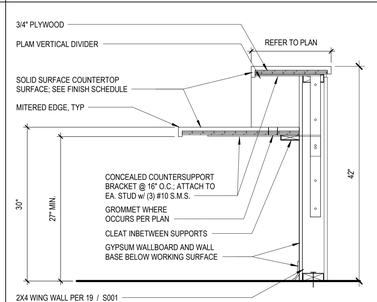
ACCESSIBLE WORKSTATION — SCALE: 1" = 1'-0" — 8



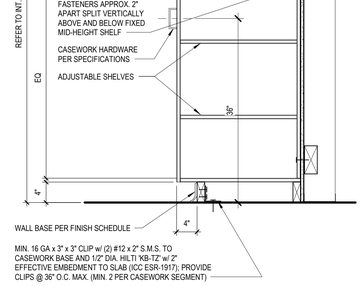
NON-ACCESSIBLE SINK @ CASEWORK — SCALE: 1" = 1'-0" — 3



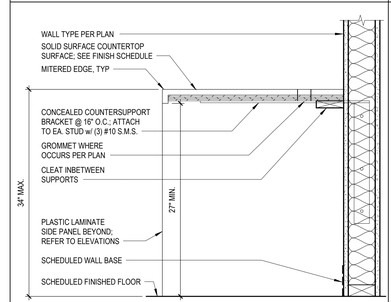
LOBBY DECAL — SCALE: 1 1/2" = 1'-0" — 24



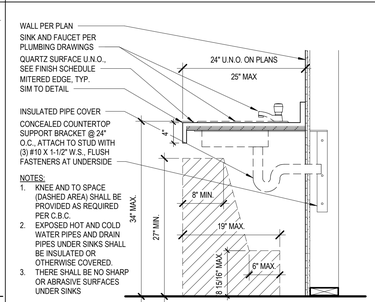
LOBBY CASEWORK 4 — SCALE: 1" = 1'-0" — 19



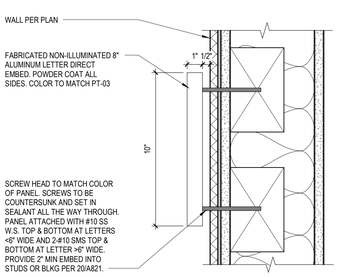
CASEWORK - TALL — SCALE: 1" = 1'-0" — 14



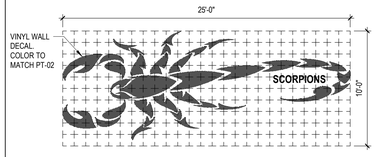
WALL-MOUNTED COUNTER — SCALE: 1 1/2" = 1'-0" — 9



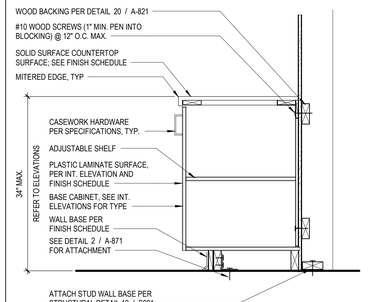
RESTROOM ACCESSIBLE LAVATORY — SCALE: 1" = 1'-0" — 4



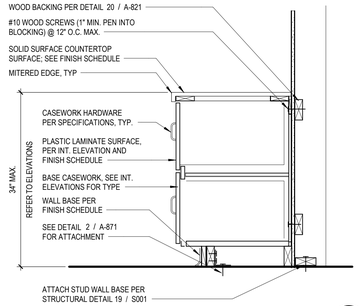
INTERIOR DIMENSIONAL LETTERS — SCALE: 3" = 1'-0" — 30



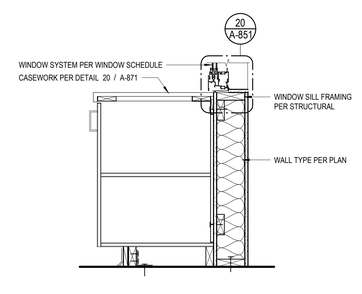
CAFETERIA DECAL — SCALE: 3/16" = 1'-0" — 25



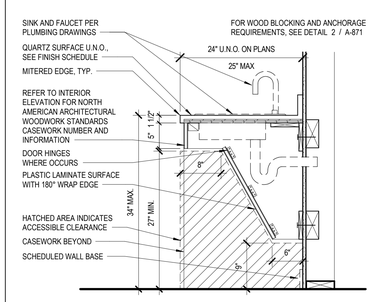
LOBBY CASEWORK 5 — SCALE: 1" = 1'-0" — 20



LOBBY CASEWORK 6 — SCALE: 1" = 1'-0" — 15



WINDOW SILL AT COUNTER TOP — SCALE: 1" = 1'-0" — 10



CLASSROOM ACCESSIBLE SINK — SCALE: 1" = 1'-0" — 5

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125726 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/28/2026

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ARCHITECTURE AND PLANNING
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LICENSED ARCHITECT — STEPHANIE B. MAY — NO. C34108 — REN. AUG 31, 27 — STATE OF CALIFORNIA

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BAKERSFIELD, CA 93309

CENTRAL VALLEY HIGH SCHOOL
CONTINUATION HIGH SCHOOL CAMPUS
526 MANNEL AVENUE
SHAFTER, CA 93263

DRAWING SUBMITTAL SCHEDULE

50% CONSTRUCTION DOCUMENTS	10/10/2025
100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO:22434-E-02

DETAILS - INTERIOR

A-871

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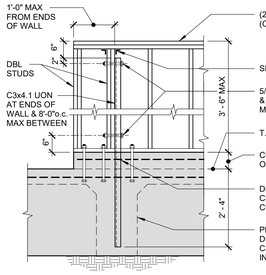
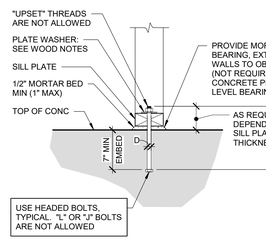


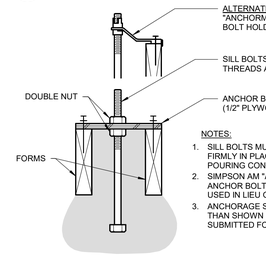
19 S001 WING WALL DETAIL

N.T.S. 6311-02



20 S001 SILL BOLT DETAIL

N.T.S. 3205-01



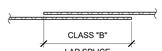
NOTES:

1. SILL BOLTS MUST BE SECURED FIRMLY IN PLACE PRIOR TO POURING CONCRETE.
2. SIMPSON AM "ANCHORMATE" ANCHOR BOLT HOLDER MAY BE USED IN LIEU OF PLYWOOD.
3. ANCHORAGE SYSTEMS OTHER THAN SHOWN HERE MUST BE SUBMITTED FOR APPROVAL.

21 S001 SILL BOLT SETTING DETAIL

N.T.S. 3205-02

BAR SIZE	CONCRETE f'c = 3000 psi — TENSION LAP SPLICE LENGTH (INCHES)					
	CONCRETE COVER = 0.75"		CONCRETE COVER = 1.5"		CONCRETE COVER = 2"	
	TOP	OTHER	TOP	OTHER	TOP	OTHER
#3	17	13	17	13	17	13
#4	28	22	23	18	23	18
#5	41	32	28	22	28	22
#6	56	43	34	26	29	26
#7	90	69	55	43	49	38
#8	112	86	70	54	56	43
#9	135	104	86	66	69	53
#10	162	125	105	81	85	66
#11	190	146	126	97	102	79

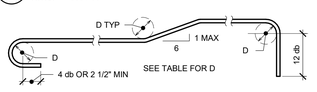


NOTES:

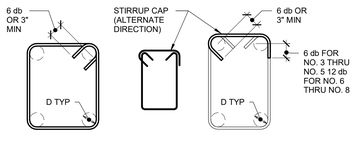
1. LAP SPLICES SHOWN CONFORM TO CLASS "B" SPLICES FOR NORMAL WEIGHT CONCRETE PER ACI 318-14.
2. USE THE SPLICE LENGTH GIVEN FOR TOP BARS WHEN MORE THAN 12" OF CONCRETE IS CAST BELOW HORIZONTAL BARS IN THE MEMBER. USE THE SPLICE LENGTH FOR BOTTOM BARS FOR ALL OTHER CONDITIONS.
3. SPLICES IN FOOTINGS, WALLS, AND SLABS ON GRADE SHALL BE STAGGERED AT LEAST 24". SPLICE IN BEAMS, COLUMNS, AND ELEVATED SLABS SHALL BE AS SHOWN ON DRAWINGS.

22 S001 REBAR SPLICE LENGTH

N.T.S. 3301-30



180 DEGREE HOOK **BEND** **90 DEGREE HOOK**



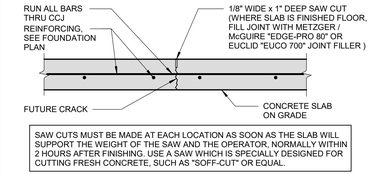
COLUMN TIE **BEAM STIRRUP**

MINIMUM DIAMETERS OF BEND		
SIZE	TIES & STIRRUPS	BARS OTHER THAN TIES & STIRRUPS
	D	D
NO. 3 THROUGH NO. 5	4 db	6 db
NO. 6 THROUGH NO. 8	6 db	6 db
NO. 9 THROUGH NO. 11	8 db	8 db
NO.14 THROUGH NO. 18	10 db	10 db

db = BAR DIAMETER
D = MINIMUM INSIDE BEND DIAMETER

23 S001 TYPICAL REINFORCING BENDS

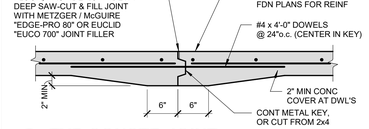
N.T.S. 3303-03



SAW CUTS MUST BE MADE AT EACH LOCATION AS SOON AS THE SLAB WILL SUPPORT THE WEIGHT OF THE SAW AND THE OPERATOR, NORMALLY WITHIN 2 HOURS AFTER FINISHING. USE A SAW WHICH IS SPECIALLY DESIGNED FOR CUTTING FRESH CONCRETE, SUCH AS "SOFF-CUT" OR EQUAL.

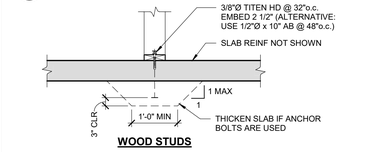
13 S001 CRACK CONTROL JOINT

N.T.S. 3102-02 (AT SLAB WITH REBAR)



14 S001 TYP CONSTR JOINT

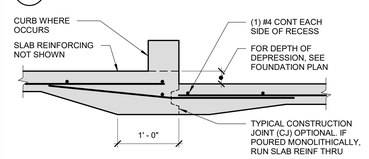
N.T.S. 3102-01 (AT SLAB WITH REBAR)



WOOD STUDS

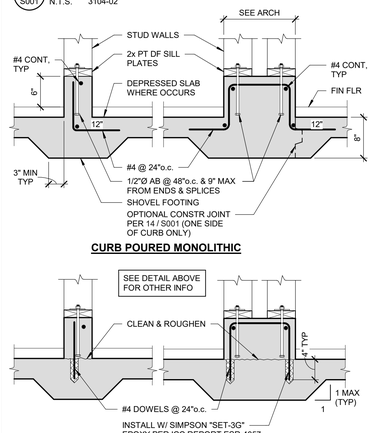
15 S001 TYP INT NON-BEARING WALL

N.T.S. 3101-03D

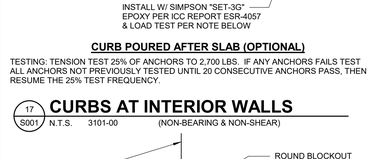


16 S001 TYPICAL DEPRESSED SLAB

N.T.S. 3104-02



CURB POURED MONOLITHIC

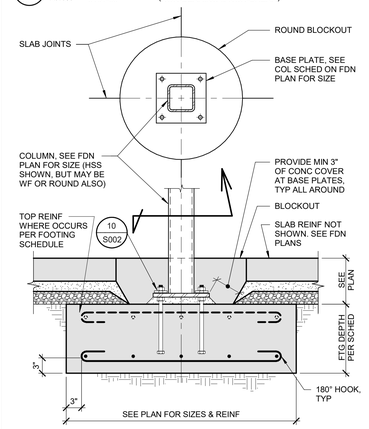


CURB POURED AFTER SLAB (OPTIONAL)

TESTING: TENSION TEST 25% OF ANCHORS TO 2,700 LBS. IF ANY ANCHORS FAILS TEST ALL ANCHORS NOT PREVIOUSLY TESTED UNTIL 20 CONSECUTIVE ANCHORS PASS, THEN RESUME THE 25% TEST FREQUENCY.

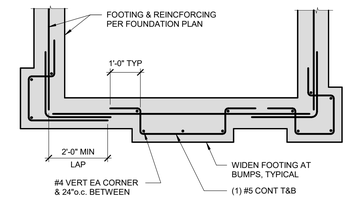
17 S001 CURBS AT INTERIOR WALLS

N.T.S. 3101-00 (NON-BEARING & NON-SHEAR)



18 S001 COLUMN FOOTING

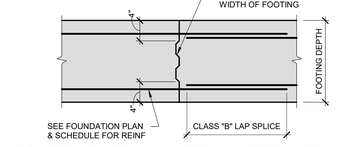
N.T.S. 3501-02



PLAN VIEW OF CONT FOOTING

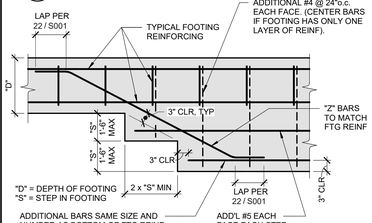
7 S001 BUMP-OUTS AT FOOTING

N.T.S. 3006-02



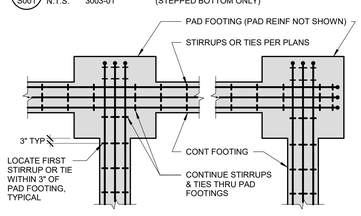
8 S001 COLD JOINT AT CONT FOOTING

N.T.S. 3007-01



9 S001 TYPICAL STEP IN FOOTING WALL

N.T.S. 3003-01 (STEPPED BOTTOM ONLY)



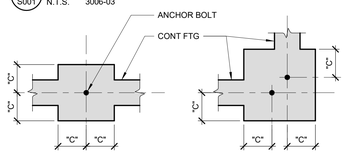
INTERSECTION **CORNER**

NOTES:

1. EXTEND GRADE BEAM BARS TO FAR SIDE OF PAD FOOTING AND PROVIDE STD HOOK. (TURN UP/DOWN)
2. PROVIDE SLAB DOWELS AND WALL DOWELS SHOWN ON CONT FOOTING DETAILS IN PAD FOOTING REGION ALSO.

10 S001 CONT FTG REINF AT PAD FTGS

N.T.S. 3006-03



TYPICAL **CORNER**

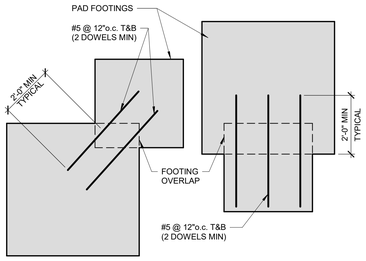
HOLDOWN	"C"
HDUE3	9"
HDUE5	9"
HDUE7	9"
HDUE9	15"
HDUE13	17"
HDUE17	17"

NOTES:

1. WIDEN FOOTINGS AS REQUIRED TO PROVIDE MINIMUM CONCRETE COVER "C" AT EACH ANCHOR BOLT.
2. WIDENED FOOTINGS ARE NOT SHOWN ON FOUNDATION PLANS.
3. NO ADDITIONAL REINF IS REQUIRED UON.

11 S001 CONC COVER AT H.D. ANCHORS

N.T.S. 3206-01



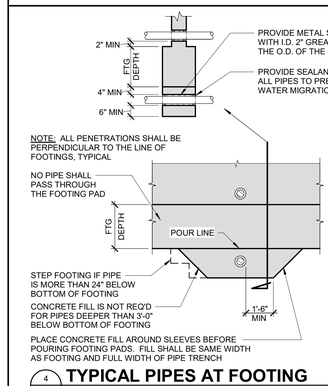
NOTE:
PROVIDE TYPICAL REINFORCING FOR EACH PAD PLUS ADDITIONAL BARS AS SHOWN.

12 S001 REINF AT OVERLAPPING FTGS

N.T.S. 3006-04

ABBREVIATIONS

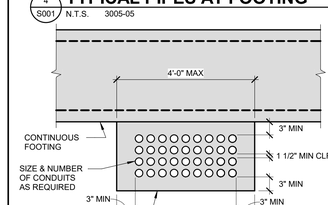
AB	ANCHOR BOLT	ELEV	ELEVATION	O.H.	OPPOSITE HAND
ACI	AMERICAN CONCRETE INSTITUTE	EN	EDGE NAILING	OPNG	OPENING
		ENGR	ENGINEER	OPP	OPPOSITE
ADD'L	ADDITIONAL	EQUIP	EQUIPMENT	PC	PRE-CAST
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	EXIST	EXISTING	PJP	PARTIAL JOINT PENETRATION
		EXP	EXPOSED		
		EXT	EXTERIOR	PL	PLATE
ALT	ALTERNATE	FDN	FOUNDATION	PLYWD	PLYWOOD
ARCH	ARCHITECTURAL	FHWS	FLAT HEAD WOOD SCREW	PSF	POUNDS PER SQUARE FOOT
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	FIN	FINISH, FINISHED	PSI	POUNDS PER SQUARE INCH
		FLG	FLANGE		
		FLR	FLOOR	PT	PRESSURE TREATED
BEV	BEVELED	FOB	FACE OF BLOCK	R	RADIUS
BLDG	BUILDING	FOC	FACE OF CONCRETE	RBS	REDUCED BEAM SECTION
BLK	BLOCK				
BLKG	BLOCKING	FOS	FACE OF STUDS, FACE OF STEEL	REF	REFERENCE
BLT	BOLT			REINF	REINFORCING
BM	BEAM	FRMG	FRAMING	REQD	REQUIRED
BN	BOUNDARY NAILING	FS	FAR SIDE	RND	ROUND
B.O.	BOTTOM OF, BY OTHERS	FT (')	FEET, FOOT	RHWS	ROUND HEAD WOOD SCREW
		FTG	FOOTING		
		GA	GAUGE, GAUGE	SCHED	SCHEDULE
BOT	BOTTOM	GALV	GALVANIZED	SDS	SELF-DRILLING SCREW
BP	BASE PLATE	GC	GENERAL CONTRACTOR	SECT	SECTION
BRG	BEARING			SHT	SHEET
BTWN	BETWEEN	GL	GLU-LAM	SHTG	SHEATHING
CBC	CALIFORNIA BUILDING CODE	GLB	GLU-LAM BEAM	SIM	SIMILAR
C.C.	CENTER TO CENTER	GR	GRADE	SIMP	SIMPSON (BRAND NAME)
		GSM	GAUGE SHEET METAL		
CCJ	CRACK CONTROL JOINT	GYP BD	GYPSUM BOARD	SLRS	SEISMIC LOAD RESISTING SYSTEM
CIP	CAST IN PLACE	HD	HOLDOWN		
CJ	CONSTRUCTION JOINT	HDR	HEADER	SDS	SELF-DRILLING SCREW
		HORIZ	HORIZONTAL		
CJP	COMPLETE JOINT PENETRATION	HSS	HOLLOW STEEL SECTIONS	SMS	SHEET METAL SCREW
C.L.	CENTER LINE	HT	HEIGHT	SPEC	SPECIFICATION
CLG	CEILING	I.D.	INSIDE	SPECS	SPECIFICATIONS
CLR	CLEAR		DIAMETER	SQ	SQUARE
CMU	CONCRETE MASONRY UNIT	IN. (")	INCH	STAGG	STAGGER
		INFO	INFORMATION	STAGG'D	STAGGERED
		INT	INTERIOR	STD	STANDARD
COL	COLUMN	LAM	LAMINATED	STL	STEEL
CONC	CONCRETE	LBS (#)	POUNDS	STIFF	STIFFENER
COND	CONDITION	LLH	LONG LEG HORIZONTAL	STRUCT	STRUCTURAL
CONN	CONNECTION			SUSP	SUSPENDED
COORD	COORDINATE	LLV	LONG LEG VERTICAL	SYMM	SYMMETRICAL
CONSTR	CONSTRUCTION			T&B	TOP AND BOTTOM
CONT	CONTINUOUS	LOC	LOCATION		
CONT'D	CONTINUED	LONGIT	LONGITUDINAL	TEMP	TEMPORARY
CONTR	CONTRACTOR	LT	LIGHT	THK	THICK
CSK	COUNTER SINK	LT WT	LIGHT WEIGHT	T.O.	TOP OF
DBL	DOUBLE	MAS	MASONRY	TOS	TOP OF STEEL
DEMO	DEMOLITION	MAX	MAXIMUM		
DET	DETAIL	MB	MACHINE BOLT	TRANS	TRANSVERSE
DETS	DETAILS	MCJ	MASONRY CONTROL JOINT	TYP	TYPICAL
DF	DOUGLAS FIR			UBC	UNIFORM BUILDING CODE
DIA	DIAMETER	MECH	MECHANICAL		
DIAG	DIAGONAL	MFR	MANUFACTURER	UON	UNLESS OTHERWISE NOTED
DIM	DIMENSIONS	MIN	MINIMUM		
DIST	DISTANCE	MTL	METAL	VERT	VERTICAL
DO	DITTO	(N)	NEW	W/	WITH
DP	DEEP	NS	NEAR SIDE, NON-SHRINK	WD	WOOD
DWG	DRAWING			WF	WIDE FLANGE
DWGS	DRAWINGS	NSA	NELSON STUD	WP	WORK POINT
DWL	DOWEL		ANCHOR	WT	WEIGHT
(E)	EXISTING	NTS	NOT TO SCALE	WWF	WELDED WIRE FABRIC
EA	EACH	O.C.	ON CENTER		
EJ	EXPANSION JOINT	O.D.	OUTSIDE DIAMETER		



NOTE: ALL PENETRATIONS SHALL BE PERPENDICULAR TO THE LINE OF FOOTINGS, TYPICAL

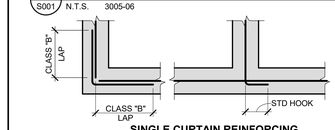
4 S001 TYPICAL PIPES AT FOOTING

N.T.S. 3005-05

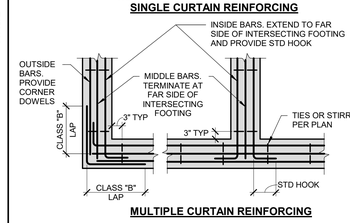


5 S001 CONDUITS AT FOOTING

N.T.S. 3005-06



SINGLE CURTAIN REINFORCING



MULTIPLE CURTAIN REINFORCING

6 S001 TYPICAL REINF AT FTG

N.T.S. 3006-01 CORNERS & INTERSECTIONS

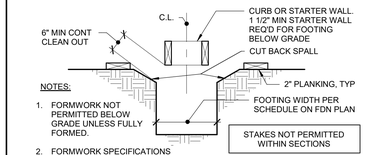
CONCRETE NOTES

1. FORMWORK: ALL MOLDS, ORNAMENTS, GROOVES ETC. SHOWN ON THE ARCHITECTURAL DRAWINGS SHALL BE PROVIDED FOR IN THE FORMWORK BEFORE THE CONCRETE IS POURED.
2. EMBEDDED ITEMS: ALL REINFORCING STEEL, ANCHOR BOLTS, DOWELS AND OTHER EMBEDS SHALL BE IN PLACE AND SECURED TO FORMWORK PRIOR TO POURING OF CONCRETE.
3. PLUMBING: REFER TO BOTH ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATION OF PLUMBING FIXTURES.
4. PIPES: NO PIPES OR DUCTS SHALL BE PLACED IN CONCRETE WALLS OR STRUCTURAL SLABS UNLESS SPECIFICALLY DETAILED.
5. CONSTRUCTION JOINTS: CONSTRUCTION JOINTS NOT INDICATED ON THE DRAWINGS SHALL BE SO MADE AND LOCATED AS NOT TO IMPAIR THE STRENGTH OF THE STRUCTURE. PROVISION SHALL BE MADE FOR THE TRANSFER OF SHEAR AND OTHER FORCES THROUGH THE JOINTS. THE CONTRACTOR SHALL OBTAIN THE ARCHITECT'S APPROVAL OF CONSTRUCTION JOINT LOCATION IN ALL STRUCTURAL SLABS, BEAMS, AND SHEAR WALLS.
6. HORIZONTAL JOINTS: THE SURFACE OF ALL HORIZONTAL CONSTRUCTION JOINTS, INCLUDING JOINTS BETWEEN FOOTINGS AND SLABS ON GRADE, SHALL BE CLEANED AND ROUGHENED BY SANDBLASTING OR OTHER PRE-APPROVED MEANS, IN ORDER TO REMOVE THE ENTIRE SURFACE AND EXPOSE CLEAN AGGREGATE SOLIDLY EMBEDDED IN MORTAR MATRIX. IN THE EVENT THAT THE CONTACT SURFACE BECOMES COATED WITH EARTH, SAWDUST, ETC, AFTER BEING CLEANED, THE ENTIRE SURFACE SO COATED SHALL BE RECLEANED.
7. QUALITY: THE QUALITY AND DESIGN OF CONCRETE SHALL BE IN ACCORDANCE WITH THE CALIFORNIA BUILDING CODE EXCEPT ITEMS NOT SPECIFICALLY COVERED THEREIN SHALL ALSO CONFORM WITH ACI 318.
8. REINFORCING: ALL REINFORCING SHALL BE NEW STOCK DEFORMED BARS CONFORMING TO ASTM A615, EXCEPT STEEL TO BE WELDED SHALL BE ASTM A706.
   a. #3 BARS AND SMALLER.....GRADE 40
   b. #4 BARS AND LARGER.....GRADE 60 (EXCEPT THAT TIES & STIRRUPS MAY BE GRADE 40)
   c. COLUMN TIES, IF USED, SHALL CONFORM TO STANDARD SPECIFICATION FOR CARBON-STEEL WIRE AND WELDED WIRE REINFORCEMENT, PLAIN AND DEFORMED, FOR CONCRETE" ASTM A1064 WITH A MINIMUM YIELD STRENGTH OF 70,000 psi. FABRICATION SHALL CONFORM TO ACI MANUAL OF STANDARD PRACTICE.
   d. SEPARATE BARS 1 1/2 DIAMETERS CLEAR OR 1 1/2" CLEAR WHICHEVER IS LARGER.
9. SPLICES: SPLICES FOR REINFORCING STEEL SHALL BE "CLASS B" AS DEFINED BY THE CBC AND ACI CODES UNLESS SPECIFICALLY SHOWN OTHERWISE. THE LENGTH OF LAP SHALL BE BASED ON GRADE 60 STEEL AND THE CONCRETE STRENGTH SHOWN BELOW. SEE REBAR SPLICE DETAIL.
10. FIELD SPLICES: FIELD SPLICES NOT ORIGINALLY SHOWN ON SHOP DRAWINGS WILL BE PERMITTED ONLY WITH APPROVAL FROM THE ARCHITECT. SUCH SPLICES SHALL BE MADE WITH FULL PENETRATION BUTT WELDING UNLESS OTHERWISE NOTED OR DETAILED.
11. WELDING OF REINFORCING: ALL WELDING OF REINFORCING STEEL SHALL BE WITH LOW HYDROGEN ELECTRODES AND SHALL COMPLY WITH ANSI/AWS D1.4. WELDING IS ALLOWED ONLY WHERE INDICATED ON THE DRAWINGS. REINFORCING SHALL CONFORM WITH ASTM A706. SHOP FUSION WELDED STIRRUP/TIE CAGES (OR SPIRAL ASSEMBLIES) CONSISTING OF ASTM A706 REINFORCING STIRRUPS/TIES AND LONGITUDINAL HOLDING WIRES OF MAXIMUM SIZE W5 AND CONFORMING TO ASTM A1064 SHALL BE PERMITTED.
12. CONCRETE COVER: MINIMUM CONCRETE COVER FOR REINFORCING SHALL BE AS FOLLOWS:
    CAST AGAINST EARTH (EXCEPT SLAB-ON-GRADE) . . . . . 3"
    SLAB-ON-GRADE (TO BOTTOM) . . . . . 2"
    EXPOSED TO EARTH OR WEATHER:
    #5 BARS AND SMALLER . . . . . 1 1/2"
    #6 BARS AND LARGER . . . . . 2"
    NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND:
    SLABS, WALLS, JOISTS:
    #11 BARS AND SMALLER . . . . . 3/4"
    #14 AND #18 BARS . . . . . 1 1/2"
    BEAMS, GIRDERS, AND COLUMNS: PRINCIPAL REINFORCING, TIES, STIRRUPS, OR SPIRALS . . . . . 1 1/2"
    SHELLS AND FOLDED PLATE MEMBERS:
    #5 BARS AND SMALLER . . . . . 1/2"
    #6 BARS AND LARGER . . . . . 3/4"
13. WIRE MESH: WELDED WIRE FABRIC SHALL COMPLY WITH ASTM A1064.
14. ANCHOR BOLTS: ALL ANCHOR BOLTS SHALL BE HEADED BOLTS AND SHALL COMPLY WITH ASTM A307 OR ASTM F1554 Gr. 36, UON. NO UPSET THREADS ALLOWED.
15. AGGREGATE SIZE: MAXIMUM AGGREGATE SIZE SHALL BE:
    3/4" AT LIGHTWEIGHT CONCRETE
    1" AT ALL OTHER CONCRETE
16. MIX DESIGN: CONCRETE SHALL HAVE 5 1/2 SACKS MINIMUM (6 SACKS MIN AT LIGHTWEIGHT CONC) TYPE-I/II PORTLAND CEMENT PER CUBIC YARD AND SHALL CONTAIN 15% TO 20% FLY ASH PER ASTM C-618 CLASS F. EXCEPTION: FLY ASH IS NOT PERMITTED IN CONCRETE TO BE POLISHED.
17. CONCRETE STRENGTH: CONCRETE SHALL HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH IN 28 DAYS AS FOLLOWS:
    f'_c = 4,000 psi AT INTERIOR SLABS ON GRADE & LIGHTWEIGHT CONCRETE
    f'_c = 3,000 psi AT ALL OTHER CONCRETE
18. WATER/CEMENT RATIO: MAXIMUM WATER/CEMENT RATIO SHALL BE:
    0.45 AT INTERIOR SLABS ON GRADE & LIGHTWEIGHT CONCRETE
    0.55 AT ALL OTHER CONCRETE
19. LIGHTWEIGHT CONCRETE: WEIGHT OF LIGHTWEIGHT CONCRETE SHALL BE 110 pcf.

FOUNDATIONS: MANDATORY MINIMUM FORMWORK

(UNLESS FULLY FORMED)

FOUNDATION CONCRETE MAY BE PLACED DIRECTLY INTO NEAT EXCAVATIONS PROVIDED THE FOUNDATION TRENCH WALLS ARE STABLE AS DETERMINED BY THE ARCHITECT (STRUCTURAL ENGINEER) SUBJECT TO THE APPROVAL OF THE DIVISION OF THE STATE ARCHITECT, IN SUCH CASE THE MINIMUM FORMWORK SHOWN ON THE DRAWINGS IS MANDATORY TO INSURE CLEAN EXCAVATIONS IMMEDIATELY PRIOR TO AND DURING THE PLACING OF THE CONCRETE.

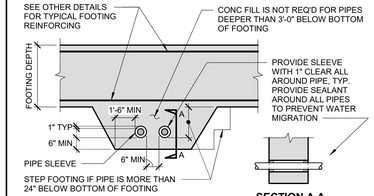


NOTES:

1. FORMWORK NOT PERMITTED BELOW GRADE UNLESS FULLY FORMED.
2. FORMWORK SPECIFICATIONS APPLICABLE.
3. AFTER CONCRETE HAS SET, REMOVE LAITANCE AND SCUM.

1 S001 FDN TRENCHING & FORMING DET

N.T.S. 3001-02 (CCR TITLE 24)

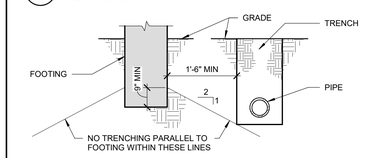


NOTE:
ALL PENETRATIONS SHALL BE PERPENDICULAR TO THE LINE OF THE FOOTING, TYPICAL. NO PIPES ALLOWED AT COLUMN FOOTINGS.

SECTION A-A

2 S001 PIPES BELOW FOOTING

N.T.S. 3005-02

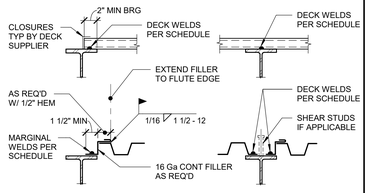


3 S001 TRENCHING NEAR FOOTING

N.T.S. 3005-03

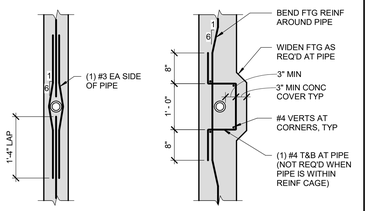
GENERAL NOTES

1. DISCREPANCIES: THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, AND CONDITIONS BEFORE STARTING WORK, AND SHALL NOTIFY THE ARCHITECT IMMEDIATELY IF ANY DISCREPANCIES ARE FOUND.
2. TYPICAL DETAILS: THE TYPICAL DETAILS AND NOTES SHOWN ON THESE SHEETS SHALL APPLY IN ALL CASES UNLESS SHOWN OTHERWISE. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL BE AS SHOWN FOR OTHER SIMILAR WORK. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. ALL WORK AND CONSTRUCTION SHALL COMPLY WITH APPLICABLE BUILDING CODES, REGULATIONS, AND SAFETY REQUIREMENTS.
3. OTHER TRADES: SEE ARCHITECTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF PIPE, VENT, DUCT, AND OTHER OPENINGS AND DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS. VERIFY ALL DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS.
4. SHORING AND BRACING: IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DESIGN AND PROVIDE ADEQUATE SHORING, BRACING, AND FORMWORK AS REQUIRED FOR THE CONSTRUCTION OF THIS BUILDING. PROVIDE TEMPORARY BRACING AS REQUIRED TO HOLD THE VARIOUS ELEMENTS IN PLACE UNTIL FINAL SUPPORT IS SECURELY ANCHORED.
5. EXCAVATION: THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATION PROCEDURES AND FOR PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS, AND UTILITIES IN ACCORDANCE WITH THE LOCAL BUILDING DEPARTMENT.

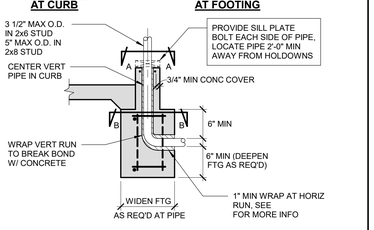


21 S002 DECK DETAILS

N.T.S. 5902-01

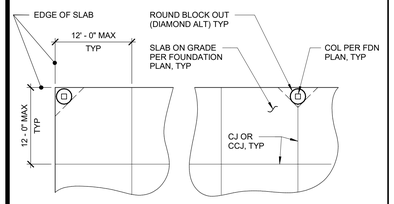


SECTION A AT CURB **SECTION B AT FOOTING**

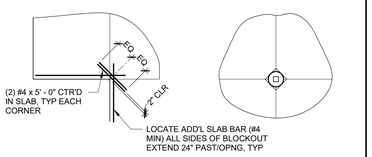


22 S002 DRAIN PIPE AT FOOTING

N.T.S. 3008-04



CORNER COLUMN **EDGE OF COLUMN**

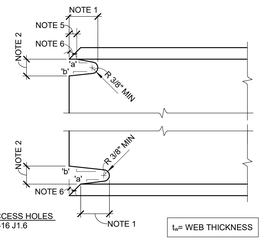


RE-ENTRANT CORNER (OR BLOCK OUT>24") **INTERIOR COLUMN OR FLOOR DRAIN/FLOOR BOX**

NOTES:
1. PANELS SHALL BE RECTANGULAR IN SHAPE UON.
2. PANEL LENGTH SHALL NOT EXCEED 1.5 TIMES THE WIDTH
3. CONTRACTOR SHALL SUBMIT CJ/CCJ SLAB LAYOUT PLAN FOR REVIEW PRIOR TO POURING SLABS.
4. SEE DETAILS 13 / S001 & 14 / S001 FOR CONSTRUCTION JOINT & CRACK CONTROL JOINT DETAILS.

23 S002 CRACK CONTROL

N.T.S.



NOTES:
1. LENGTH: NOT LESS THAN 1.5 tw, NOR LESS THAN 1 1/2".
2. HEIGHT: NOT LESS THAN 1.0 tw, NOR LESS THAN 3/4". NEED NOT EXCEED 2".
3. R: 3/8" MIN. GRIND THE THERMALLY CUT SURFACES OF WELD ACCESS HOLES IN HEAVY SHAPES AS DEFINED IN AISC 360-10 SECTION A3.1(c) AND (d).
4. SLOPE 'a' FORMS A TRANSITION FROM THE WEB TO THE FLANGE. SLOPE 'b' MAY BE HORIZONTAL.
5. THE BOTTOM OF THE TOP FLANGE IS TO BE CONTOURED TO PERMIT THE TIGHT FIT OF BACKING BARS WHERE THEY ARE TO BE USED.
6. BEVEL AS REQUIRED FOR SELECTED GROOVE WELD.
7. WELD ACCESS HOLES CONFORM TO AISC 360-16 SECTION J1.6.

24 S002 TYPICAL WELD ACCESS HOLES

N.T.S. 5221-01

SCHEDULE A

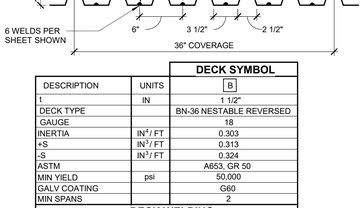
SINGLE-PLATE SHEAR CONNECTION

BEAM SIZE	BOLTS	TYPE	SHEAR PLATE		
			MIN L	t	WELD "S"
W8, W10	(2) 7/8"ø	A325N	6"	1/4"	3/16"
W12, W14	(3) 7/8"ø	A325N	9"	3/8"	1/4"
W16	(4) 7/8"ø	A325N	12"	3/8"	1/4"
W18	(5) 7/8"ø	A325N	15"	3/8"	1/4"
W21, W24	(6) 7/8"ø	A325N	18"	3/8"	1/4"
W27	(7) 7/8"ø	A325N	21"	3/8"	1/4"
W30	(8) 7/8"ø	A325N	24"	3/8"	5/16"
W33	(9) 7/8"ø	A325N	27"	3/8"	5/16"
W36	(10) 7/8"ø	A325N	30"	3/8"	5/16"

NOTES:
1. BOLT HOLES SHALL BE STANDARD UON.
2. WHERE SLOTTED HOLES ARE SHOWN IN OUTER PLY, A FLAT HARDENED WASHER OR COMMON PLATE WASHER SHALL BE INSTALLED OVER THE SLOT.
3. JOINT ASSEMBLY AND TIGHTENING SHALL BE PER AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS." BOLTS IN BEARING TYPE CONNECTIONS (A325N), NEED ONLY BE TIGHTENED TO THE SNUG TIGHT CONDITION AND PAINT IS PERMITTED ON THE FAYING SURFACES. ALL BOLTS ARE IN BEARING TYPE CONNECTIONS UNLESS SPECIFICALLY NOTED AS SLIP-CRITICAL (SC).

16 S002 BEAM CONN SCHEDULE

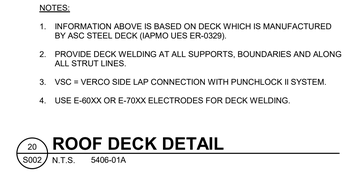
N.T.S. 5206-02(16)



PROVIDE FULL DEPTH CONN PLATE:
1. AT DEEPER BEAM, WHERE DIFFERENCE IN BEAM DEPTH EXCEEDS 6".
2. AT EACH BEAM, WHERE BEAMS ARE OFFSET MORE THAN 1'-0" IN PLAN.
3. WHERE BEAM OCCURS ON ONE SIDE ONLY.

17 S002 BEAM TO GIRDER CONN

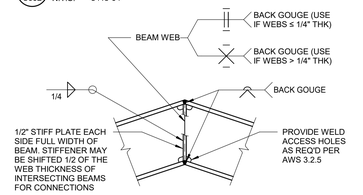
N.T.S. 5207-01



NOTE:
FOR SLOPE ≤ 1/2 : 12 AND DECK PARALLEL TO RIDGE, DECK MAY BE CONTINUOUS OVER RIDGE.

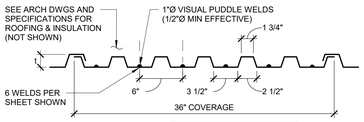
18 S002 RIDGE DETAIL

N.T.S. 5413-04



19 S002 PITCHED BEAM SPLICE

N.T.S. 5201-03

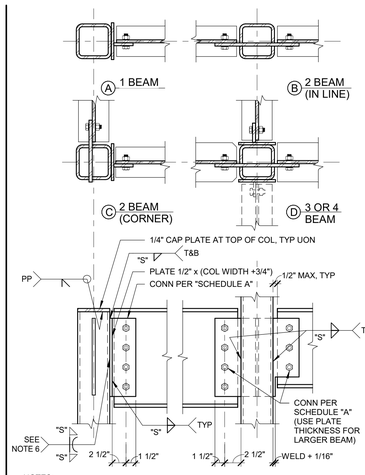


DESCRIPTION	UNITS	DECK SYMBOL
		B
t	IN	1 1/2"
DECK TYPE		BN-36 NESTABLE REVERSED
GAUGE		18
INERTIA	IN^4 / FT	0.303
+S	IN^3 / FT	0.313
-S	IN^3 / FT	0.324
ASTM		A653, GR 50
MIN YIELD	psi	50,000
GALV COATING		G60
MIN SPANS		2
DECK WELDING		
WELDS TO SUPPORTS	EACH SHEET	36/6
WELDS PARALLEL TO FLUTES		1"Ø @ 12" o.c.
SEAMS		#12-14 x 3/4" @ 12" o.c.
MIN DIAPHRAGM SHEAR CAPACITY	PLF	1649 SPAN = 8'-0"
FIRE RATING	HR	N/A

NOTES:
1. INFORMATION ABOVE IS BASED ON DECK WHICH IS MANUFACTURED BY ASC STEEL DECK (IAPMO UES ER-0329).
2. PROVIDE DECK WELDING AT ALL SUPPORTS, BOUNDARIES AND ALONG ALL STRUT LINES.
3. VSC = VERCO SIDE LAP CONNECTION WITH PUNCHLOCK II SYSTEM.
4. USE E-60XX OR E-70XX ELECTRODES FOR DECK WELDING.

20 S002 ROOF DECK DETAIL

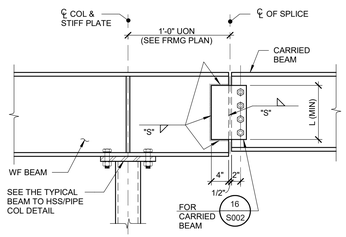
N.T.S. 5406-01A



NOTES:
1. ALSO REFER TO SCHEDULE "A" & TYP BEAM CONNECTIONS.
2. SLOT COLUMN FOR CONN PLATE. MAXIMUM 1/2" OVERCUT EACH END.
3. CROP BEAM FLANGES AS REQ'D AT INTERFERENCES.
4. AT DETAIL C, USE WELDED "T" AT THE LIGHTER BEAM.
5. AT DETAIL D, WHEN 4 BEAMS OCCUR , USE WELDED "T" AT THE LIGHTER BEAMS.
6. WHERE WALL THICKNESS OF COLUMN IS 1/2" OR GREATER, REINFORCING FILLET WELD MAY BE OMITTED.

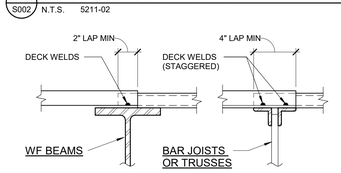
12 S002 BEAM TO TUBE COLUMN

N.T.S. 5205-013



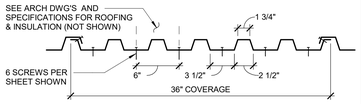
13 S002 BEAM SPLICE DETAIL

N.T.S. 5211-02



14 S002 ROOF DECK SPLICE

N.T.S. 5409-01

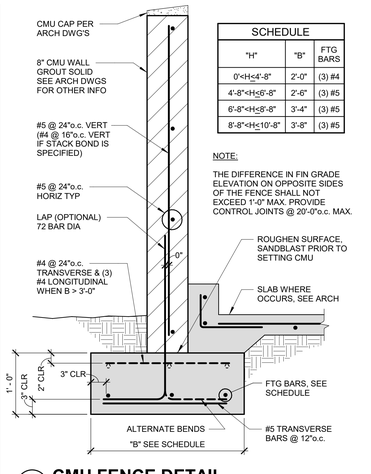


DESCRIPTION	UNITS	DECK SYMBOL
		A
t	IN	1 1/2"
DECK TYPE		BN-36 NESTABLE REVERSED
GAUGE		18
INERTIA	IN^4 / FT	0.303
+S	IN^3 / FT	0.313
-S	IN^3 / FT	0.324
ASTM		A653, Gr 50
MIN YIELD	psi	50,000
GALV COATING		G60
MIN SPANS		1
DECK ATTACHMENT		
FASTENERS TO SUPPORT	EACH SHEET	36/6
FASTENERS PARALLEL TO SUPPORTS		12" o.c.
SEAMS		#12-14 x 3/4" @ 12" o.c.
MIN DIAPHRAGM SHEAR CAPACITY	PLF (ASD)	662 SPAN = 8'-0"
FIRE RATING	HR	N/A
DECK FASTENERS		
SUPPORT THICKNESS		
MINIMUM	MAXIMUM	
1/8"	1/4"	#12-24 x 7/8" SCREWS
1/4"	N/A	#12-24 x 1 1/4" SCREWS

NOTES:
1. THE TABLE VALUES ARE THE MINIMUM PROPERTIES AND SHEAR CAPACITY REQUIRED. INFORMATION IS BASED ON DECK MANUFACTURED BY ASC STEEL DECK AND IAPMO UES-0329. DECK WITH GREATER OR EQUAL VALUES WILL BE CONSIDERED PROVIDED THE REQUEST FOR SUBSTITUTION IS SUBMITTED IN ACCORDANCE WITH THE SPECIFICATIONS. SUBSTITUTIONS WILL REQUIRE THE APPROVAL OF THE STRUCTURAL ENGINEER AND DSA.
2. PROVIDE SCREW FASTENERS AT ALL SUPPORTS, BOUNDARIES AND ALONG ALL STRUT LINES PER THE FASTENERS SCHEDULE ABOVE.
3. DECK FASTENERS SHALL HAVE NEOPRENE WASHERS FOR WATERTIGHT CONSTRUCTION.
4. ALL FASTENERS SHALL BE GALVANIZED OR STAINLESS STEEL.
5. SEE "METAL DECK NOTES" THIS SHEET.

15 S002 ROOF DECK DETAIL

N.T.S. 5406-05



SCHEDULE		
"H"	"B"	FTG BARS
0'<H≤4'-8"	2'-0"	(3) #4
4'-8"<H≤6'-8"	2'-6"	(3) #5
6'-8"<H≤8'-8"	3'-4"	(3) #5
8'-8"<H≤10'-8"	3'-8"	(3) #5

NOTE:
THE DIFFERENCE IN FIN GRADE ELEVATION ON OPPOSITE SIDES OF THE FENCE SHALL NOT EXCEED 1'-0" MAX. PROVIDE CONTROL JOINTS @ 20'-0"o.c. MAX.

5 S002 CMU FENCE DETAIL

N.T.S. 4500-00A

UNLESS LARGER SIZES ARE SHOWN, THE MINIMUM SIZE OF FILLET WELDS SHALL BE AS SHOWN IN TABLE J2.4. THESE PROVISIONS DO NOT APPLY TO FILLET WELD REINFORCEMENTS OF PARTIAL-OR COMPLETE-JOINT-PENETRATION GROOVE WELDS.

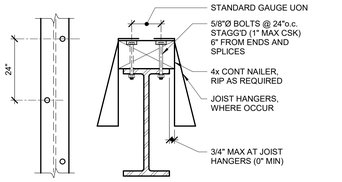
TABLE J2.4 AISC MINIMUM SIZE OF FILLET WELDS

MATERIAL THICKNESS OF THINNER PART JOINED (IN)	MINIMUM SIZE OF FILLET WELD (IN) *
TO 1/4 INCLUSIVE	1/8 USE 3/16 MIN
OVER 1/4 TO 1/2	3/16
OVER 1/2 TO 3/4	1/4
OVER 3/4 TO 1 1/2	5/16

* LEG DIMENSION OF FILLET WELDS. SINGLE-PASS WELDS MUST BE USED.

6 S002 FILLET WELDS

N.T.S. 5001-02



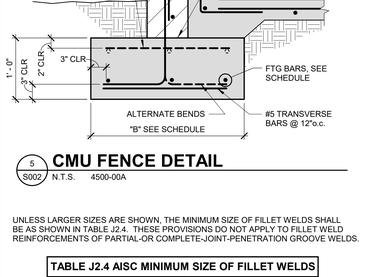
7 S002 NAILER ON STEEL BEAMS

N.T.S. 5001-01A

B_f (IN)	g (IN)
$4 \le B_f < 5$	2 1/4"
$5 \le B_f < 6$	2 3/4"
$6 \le B_f < 8$	3 1/2"
$8 \le B_f < 15$	5 1/2"

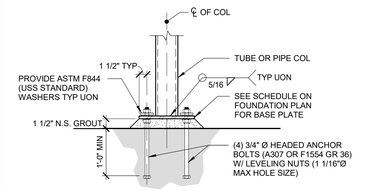
8 S002 USUAL BOLT GAGE FOR STL BMS

N.T.S. 5206-00



9 S002 BEAM TO HSS/PIPE COLUMN

N.T.S. 5203-01



10 S002 HSS BASE PLATE DETAIL

N.T.S. 5101-01 TUBE OR PIPE COLUMN

STRUCTURAL STEEL NOTES

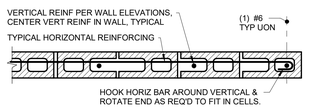
1. GRADES: STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING UON:

STRUCTURAL SHAPE	ASTM SPECIFICATION	Fy (MIN)
W-SHAPES, WT-SHAPES	ASTM A992	50 ksi
CHANNELS, PLATES, AND ANGLES	ASTM A36	36 ksi
STEEL PIPE	ASTM A53 GRADE B	35 ksi
ROUND HSS	ASTM A500 GRADE B	42 ksi
SQUARE AND RECTANGULAR HSS	ASTM A500 GRADE B	46 ksi

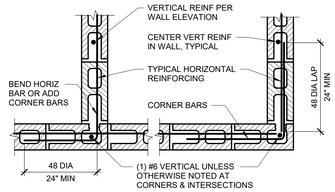
2. NATURAL CAMBER: WHEN FABRICATING BEAMS, PLACE NATURAL CAMBER UP.
3. FABRICATION AND ERECTION: FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE AISC MANUAL OF STEEL CONSTRUCTION. SHOP DRAWINGS SHALL BE SUBMITTED BEFORE FABRICATION.
4. BOLTS: ALL UNFINISHED BOLTS FOR WOOD TO STEEL SHALL BE ASTM A307 UNLESS OTHERWISE NOTED. BOLTS FOR STEEL TO STEEL CONNECTIONS SHALL BE A307 UON, EXCEPT THAT BOLTS FOR BEAM CONNECTIONS SHALL BE PER BEAM CONNECTION SCHEDULE. BOLT HOLES SHALL BE STANDARD SIZE UON.
5. HIGH STRENGTH BOLTS: HIGH STRENGTH (HS) BOLTS, IN SLIP CRITICAL CONNECTIONS (SC), SHALL BE ASTM A325. ASSEMBLY SHALL COMPLY WITH AISC SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 BOLTS AND SHALL COMPLY WITH THE REQUIREMENTS FOR SLIP CRITICAL TYPE CONNECTION, CLASS A SURFACE. INSTALLATION SHALL BE BY EITHER "CALIBRATED WRENCH TIGHTENING", "TURN OF THE NUT TIGHTENING METHOD", OR "TIGHTENING BY USE OF A DIRECT TENSION INDICATOR". HIGH STRENGTH BOLTS IN NON-SLIP CRITICAL CONNECTIONS (A325N) REQUIRE TIGHTENING TO THE SNUG TIGHT CONDITION ONLY.
6. MINIMUM CONNECTION: IF DETAILS ARE NOT SHOWN, BEAMS SHALL BE CONNECTED USING 3/4" DIAMETER A325N BOLTS PER PART 7, TABLE 7-1 OF AISC MANUAL OF STEEL CONSTRUCTION, 15th EDITION. THE NUMBER OF BOLTS SHALL BE THE MAXIMUM POSSIBLE FOR THE PARTICULAR BEAM DEPTH. NO CONNECTION SHALL HAVE FEWER THAN 2 BOLTS.
7. WELDING:
   a. ALL WELDS SHALL BE MADE WITH PREQUALIFIED JOINTS PER AISC, USING THE ELECTRIC ARC PROCESS AND E-70XX ELECTRODES IN ACCORDANCE WITH AWS STANDARDS.
   b. ALL WELDING SHALL BE DONE BY APPROVED CERTIFIED WELDERS.
   c. NO WELDING IS PERMITTED ON MEMBERS SUPPORTING LOADS.
   d. ALL SHOP AND FIELD WELDING SHALL HAVE SPECIAL INSPECTION. ALL COMPLETE PENETRATION WELDS SHALL BE TESTED BY NON-DESTRUCTIVE TESTING (NDT PROCEDURES IN ACCORDANCE WITH AWS STANDARDS).
   e. ALL WELDS USED IN MEMBERS AND CONNECTIONS IN THE SFRS (SEISMIC FORCE RESISTING SYSTEM) SHALL BE MADE WITH A FILLER METALS MEETING THE REQUIREMENTS SPECIFIED IN CLAUSE 6.3 OF "STRUCTURAL WELDING CODE - SEISMIC SUPPLEMENT" (AWS D1.8 / D1.8M).
8. TEMPORARY BRACING: THE STEEL FABRICATOR SHALL PROVIDE ADEQUATE TEMPORARY BRACING FOR ERECTION.
9. SLOTTED AND OVERSIZED HOLES: WHERE SLOTTED OR OVERSIZED HOLES ARE SPECIFIED ON THE DRAWINGS, PROVIDE WASHERS PER AISC UNDER BOLT HEADS AND NUTS WHICH ARE IN CONTACT WITH SLOTTED AND OVERSIZED HOLES.
10. SHIMS: PROVIDE STEEL SHIMS AT SPLICES OF PARTS HAVING MORE THAN 1/8" DIFFERENCE IN THICKNESS.
11. BEVELED WASHERS: PROVIDE BEVELED WASHERS ON ALL CONNECTIONS TO SLOPING FLANGES OF WIDE FLANGE SECTIONS AND CHANNELS.
12. STITCH BOLTS: PROVIDE 3/4" DIAMETER STITCH BOLTS AND FILL PLATE (OR EQUIVALENT WELDED FILL PLATES) CONNECTING ALL DOUBLE ANGLE MEMBERS AT 2'-0"o.c. MAX.
13. MINIMUM WELDS: WHERE MINIMUM AISC FILLET WELD THICKNESS REQUIREMENT EXCEEDS WELDS SHOWN ON DETAILS, PROVIDE MINIMUM AISC WELD.
14. OPENINGS IN STEEL MEMBERS: OPENINGS SHALL NOT BE PLACED IN STEEL MEMBERS UNLESS SPECIFICALLY DETAILED. STEEL MEMBERS SHALL BE SHORED WHEN PERMISSIBLE HOLES ARE CUT WITH TORCH AFTER STEEL IS ERECTED. THE SHORES SHALL REMAIN IN PLACE UNTIL STEEL TEMPERATURE HAS RETURNED TO AIR TEMPERATURE.
15. STUD BOLTS: ALL STUD BOLTS SHALL BE NELSON STUDS OR EQUIV PER ESR 2856 AND SHALL BE INSTALLED BY A LICENSED FABRICATOR.
16. STEEL EXPOSED TO EARTH: ALL STEEL EXPOSED TO EARTH SHALL HAVE A MINIMUM CONCRETE COVER OF 3" UON.
17. LIGHT GAUGE STEEL: LIGHT GAUGE COLD-FORMED STRUCTURAL STEEL SHALL CONFORM TO THE SPECIFICATIONS OF THE AISI MANUAL UNLESS OTHERWISE NOTED.
18. SHEAR CONNECTORS: SHEAR CONNECTORS SHALL BE ASTM A108 WITH Fu = 65 ksi
19. PROTECTED ZONES: WHERE SHOWN ON PLANS AND DETAILS, PROTECTED ZONES SHALL BE MARKED AND MAINTAINED. ATTACHMENTS TO PROTECTED ZONES ARE PROHIBITED UNLESS SPECIFICALLY NOTED OTHERWISE. SEE PROTECTED ZONE DETAILS FOR OTHER INFORMATION.

METAL DECK NOTES

1. DECKING SHALL BE FORMED FROM STEEL SHEETS CONFORMING TO ASTM A653SS GRADE 50, UON.
2. STEEL DECK SHALL BE THE TYPE AND PROFILE AS INDICATED ON THE DRAWINGS.
3. ALL STEEL DECK SHALL BE CONTINUOUS OVER AT LEAST TWO SPANS UON.
4. STEEL DECK AND METHOD OF ATTACHMENT TO SUPPORTS SHALL BE AS SHOWN ON DRAWINGS. SHOW ATTACHMENT METHOD ON SHOP DRAWINGS.
5. NO PIPES OR CONDUITS WILL BE PERMITTED IN CONC SLABS OVER METAL DECK.
6. DECKING SUPPLIER SHALL PROVIDE ALL EDGE CLOSURES INCLUDING BUT NOT LIMITED TO CLOSURES AT COLUMNS, SHAFT OPENINGS, AND DECK PENETRATIONS. DECK SUPPLIER SHALL PROVIDE SUPPORT FRAMING WHERE NECESSARY AT SUCH CONDITIONS.
7. ALL OPENINGS SHALL BE REINFORCED AS SHOWN AND AS DETAILED HEREIN. OPENINGS NOT SHOWN ON PLANS SHALL BE REINFORCED BY CRAFT REQUIRING THE OPENINGS, AS DETAILED HEREIN. ALL WORK IS SUBJECT TO THE QUALITY AND STANDARDS SPECIFIED.
8. VERIFY SHORING REQUIREMENTS, IF ANY, WITH THE MANUFACTURER.
9. NO MECHANICAL EQUIPMENT, DUCTS, OR PIPING EXCEPT AS NOTED ON ITEM 12 BELOW, SHALL BE SUPPORTED FROM THE ROOF DECKING. PIPING AND EQUIPMENT SHALL BE SUPPORTED FROM STEEL BEAMS. SEE SMACNA (SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION) MANUAL FOR SEISMIC BRACING OF PIPING AND DUCTWORK.
10. SHEAR STUDS SHALL BE WELDED THROUGH ONLY ONE LAYER OF DECK USING APPROVED WELDING METHODS. DECK SHALL BE PREPUNCHED WHERE MORE THAN ONE LAYER OF DECKING OCCURS AT A LOCATION.
11. ALL DECK WELDING SHALL BE PERFORMED USING PREQUALIFIED PROCEDURES PER AWS D1.3 AND BY WELDERS EXPERIENCED IN LIGHT GAUGE STEEL WELDING.
12. ROOF DECKING SHALL NOT BE USED TO SUPPORT ANY HANGER LOAD EXCEEDING 25 POUNDS.
13. PROVIDE "VENTED" DECK AT ALL ROOF DECKS WITH CONCRETE OR INSULATING CONCRETE.
14. PROVIDE "VENTED" DECK AT ALL FLOOR DECKS IN AREAS TO BE WATERPROOFED, INCLUDING ELASTOMERIC TOPPING.



ENDS AND OPENINGS



INTERSECTION **CORNER**

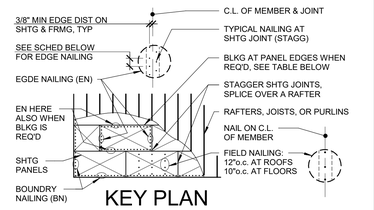
4 S002 CMU WALL REINFORCING

N.T.S. 4001-01 (SINGLE CURTAIN)

CONCRETE BLOCK NOTES

(TITLE 24)

1. BLOCK UNITS: ALL CONCRETE BLOCK UNITS SHALL BE LIGHT WEIGHT OR MEDIUM WEIGHT, AND SHALL BE MANUFACTURED IN COMPLIANCE WITH ASTM C-90, GRADE N, AND UNITS SHALL BE PLACED IN A RUNNING BOND PATTERN. TYPICAL UNLESS NOTED OTHERWISE. VERTICAL BARS SHALL BE SPACED @ 16"o.c. MAX FOR STACKED BOND.
2. GROUTING: ALL CELLS SHALL BE SOLIDLY FILLED WITH GROUT. GROUT SHALL BE CONSOLIDATED BY MECHANICAL VIBRATION DURING PLACING AND RECONSOLIDATED AFTER EXCESS MOISTURE HAS BEEN ABSORBED, BUT BEFORE WORKABILITY IS LOST. THE GROUTING OF ANY SECTION OF A WALL SHALL BE COMPLETED IN ONE DAY, WITH NO INTERRUPTIONS GREATER THAN ONE HOUR.
3. WEBS & CELLS: WEBS OF EACH COURSE SHALL BE CENTERED ON WEBS BELOW. VERTICAL CELLS SHALL HAVE VERTICAL ALIGNMENT TO MAINTAIN A CLEAN UNOBSTRUCTED VERTICAL FLUE MEASURING NOT LESS THAN 3" x 3".
4. OPEN END UNITS: OPEN END UNITS SHALL BE USED WITH ALL REINFORCED CELLS EXCEPT AT JAMBS. ALL CELLS, REINFORCED OR NOT, SHALL BE FILLED WITH GROUT. HORIZONTAL REINFORCEMENT SHALL BE PLACED IN BOND BEAM UNITS WITH A MINIMUM GROUT COVER OF 1" ABOVE THE STEEL FOR EACH GROUT POUR.
5. FOOTING DOWELS: FOOTING DOWELS TO MATCH VERTICAL WALL REINFORCING SHALL BE PROVIDED AT ALL POINTS WHERE CELLS ARE TO BE REINFORCED.
6. REINFORCING: SEE CONCRETE NOTES FOR REINFORCING STEEL GRADES. MAXIMUM SIZE OF REINFORCING IN 8" WALLS IS #6. MAXIMUM SIZE IN 12" CMU IS #8.
7. REINFORCING POSITIONERS: REINFORCING SHALL BE STRAIGHT AND PLACED ACCURATELY IN POSITION. VERTICAL BARS IN CELLS SHALL BE HELD IN PLACE BY AN APPROVED MECHANICAL DEVICE AT TOP AND BOTTOM AND AT INTERVALS NOT TO EXCEED 192 BAR DIAMETERS NOR 10 FEET.
8. SPLICES: SPLICES IN REINFORCING STEEL SHALL BE 48 BAR DIAMETERS FOR #5 AND SMALLER BARS AND 62 BAR DIAMETERS FOR #6 AND LARGER BARS UNLESS NOTED OTHERWISE. WHEN ADJACENT SPLICES ARE SEPARATED BY 3" OR LESS, INCREASE THE LAP LENGTH TO 72 BAR DIAMETERS. IF SPLICES ARE STAGGERED AT LEAST 24 BAR DIAMETERS, NO INCREASE IS REQUIRED. PILASTER BARS SHALL BE ONE PIECE FULL HEIGHT UNLESS DETAILED OTHERWISE.
9. CHORD BARS: PROVIDE (2) #5 HORIZONTAL BARS MINIMUM IN WALLS AT ALL ROOFS AND FLOORS IN ADDITION TO TYPICAL HORIZONTAL REINFORCING. LAP BARS 72 BAR DIAMETERS AT SPLICES. RUN BARS CONTINUOUS THROUGH MCJ's.
10. CLEANOUTS: WHERE BLOCK IS LAID TO A MAXIMUM OF FOUR FEET BEFORE GROUTING, NO CLEANOUTS SHALL BE REQUIRED. WHERE THE BLOCK IS LAID TO HEIGHTS GREATER THAN FOUR FEET BEFORE GROUTING, CLEANOUTS SHALL BE PROVIDED AT THE BOTTOM OF ALL CELLS. CLEANOUTS SHALL BE OF SUFFICIENT SIZE AND LOCATION TO ALLOW THOROUGH FLUSHING AWAY OF ALL MORTAR DROPPING AND DEBRIS.
11. HIGH LIFT: THE MAXIMUM HEIGHT OF POURS FOR HIGH LIFT SHALL BE LIMITED TO 12 FEET FOR 8" CMU AND 16 FEET FOR 12" CMU. BETWEEN GROUT POURS, HORIZONTAL CONSTRUCTION JOINTS SHALL BE FORMED BY STOPPING ALL MASONRY UNITS AT THE SAME ELEVATION AND WITH THE GROUT STOPPING A MINIMUM OF 1 1/2" BELOW THE MORTAR JOINT, EXCEPT AT THE TOP OF THE WALL. WHERE BOND BE



KEY PLAN

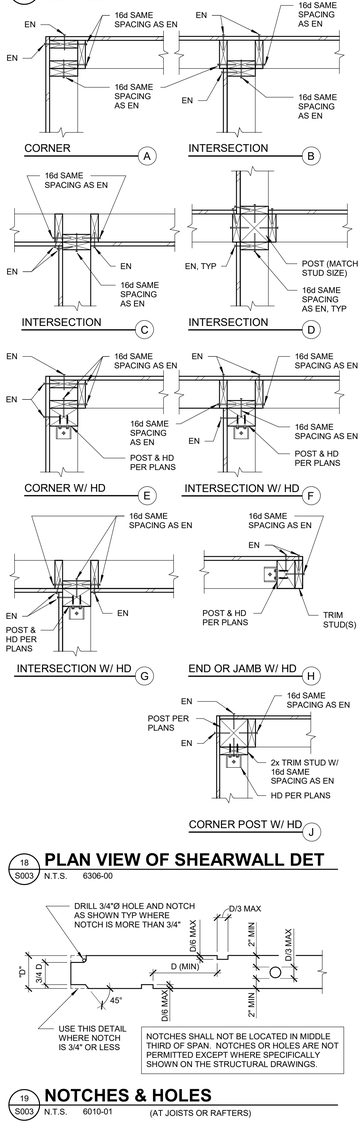
SHEATHING PANEL SCHEDULE						
TYPE	THICK	INDEX	BN	EN	EDGE BLOCKING	USE
A	19/32"	40/20	10d @ 6"	10d @ 6"	2x4 FLAT	ROOF

NOTES:

1. ALL NAILS SHALL BE COMMON WIRE NAILS. NAILS DRIVEN INTO PRESSURE TREATED LUMBER SHALL BE HOT DIPPED GALVANIZED PER ASTM A153 CLASS D.
2. ALL SHEATHING SHALL BE MARKED "APA RATED GROUP I DF, EXPOSURE 1".
3. INDIVIDUAL PIECES OF SHEATHING SHALL NOT BE LESS THAN 24" IN THE LEAST DIMENSION NOR LESS THAN 8 SQ-FT IN AREA.
4. EDGE BLOCKING, IF CALLED FOR ABOVE, IS FOR DIAPHRAGM SHEAR REQUIREMENTS ONLY. IF BLOCKING IS NOT REQUIRED FOR SHEAR, VERIFY ADEQUACY OF UNBLOCKED EDGES WITH ROOF INSTALLER BEFORE APPLYING SHEATHING. USE T & G SHTG ON ALL FLOORS.
5. PROVIDE EDGE NAILING ALONG ALL SHEAR WALL LINES AND MEMBERS LABELED AS STRUTS. USE TWO ROWS OF EDGE NAILING AT ALL INTERIOR SHEAR WALL LINES AND STRUTS.
6. PREDRILL HOLES WHERE WOOD TENDS TO SPLIT.
7. USE DEFORMED SHANK NAILS FOR ALL FLOOR SHEATHING USED AS COMBINATION SUBFLOOR-UNDERLAYMENT.
8. FLOOR SHEATHING SHALL BE GLUED TO ALL FRAMING MEMBERS.

17 S003 ROOF / FLOOR SHEATHING

N.T.S. 6002-01

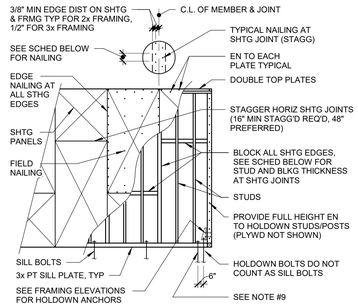


18 S003 PLAN VIEW OF SHEARWALL DET

N.T.S. 6306-00

19 S003 NOTCHES & HOLES

N.T.S. 6010-01 (AT JOISTS OR RAFTERS)



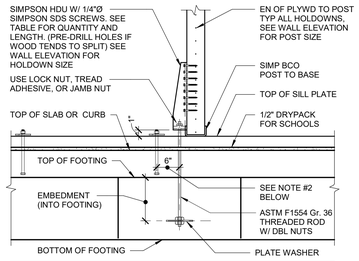
SHEATHING PANEL SCHEDULE				
TYPE	EDGE NAILING (EN)	NOMINAL THICKNESS STUDS & BLKG AT PLYWD JOINTS	SILL BOLTS*
1	10d @ 6"o.c.	2x	5/8"Ø 12" @ 48"o.c.
2	10d @ 6"o.c.	2x	5/8"Ø 12" @ 32"o.c.

NOTE:* ANCHOR BOLTS WITH UPSET THREADS ARE NOT ALLOWED.

1. ALL NAILS SHALL BE COMMON WIRE NAILS. NAILS DRIVEN INTO PRESSURE TREATED LUMBER SHALL BE HOT DIPPED GALVANIZED PER ASTM A153 CLASS D.
2. ALL SHEATHING SHALL BE MARKED "A.P.A. RATED SHEATHING, STRUCT I, EXPOSURE 1".
3. INDIVIDUAL PIECES OF SHEATHING SHALL NOT BE LESS THAN 16" IN THE LEAST DIMENSION NOR LESS THAN 8 SQ-FT IN AREA.
4. ALL SHEATHING SHALL BE 1/2" OR 15/32" THICK UNLESS OTHERWISE NOTED.
5. SPACE NAILS @ 12"o.c. ALONG INTERMEDIATE FRAMING MEMBERS (FIELD NAILING).
6. PROVIDE EDGE NAILS FULL HEIGHT OF JAMB STUDS, TYPICAL AT WALL OPENINGS AND ALL STUDS WITH HOLDOWNS.
7. PREDRILL HOLES WHERE WOOD TENDS TO SPLIT.
8. STAGGER NAILS WHERE SPACED @ 3"o.c. OR LESS.
9. WHEN HOLDOWN (HD) BOLT OCCURS NEAR END OF SILL PLATE, LOCATE SILL BOLT 6" FROM HD BOLT.

14 S003 SHEAR WALL DETAIL

N.T.S. 6309-01



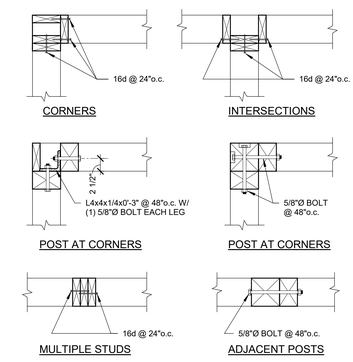
HOLDOWN SIZE	NO. OF SCREWS TO POST	ANCHOR DIA	MIN EMBED DEPTH	WASHER SIZE
HDUE3	(7) 1/4"Ø x3"	5/8"	20"	3/8" x 3" SQ
HDUE5	(10) 1/4"Ø x3"			
HDUE7	(13) 1/4"Ø x3"			
HDUE9	(16) 1/4"Ø x3 1/2"	7/8"	20"	1/2" x 3 1/2" SQ
HDUE13	(23) 1/4"Ø x3 1/2"	1"	20"	1/2" x 3 1/2" SQ
HDUE17	(28) 1/4"Ø x3 1/2"	1"	20"	1/2" x 3 1/2" SQ

NOTE:

1. DEEPEN FTG AS REQUIRED TO PROVIDE 3" MINIMUM CONCRETE COVER AT ANCHOR BOLT & PLATE WASHER, AND WIDEN FTG AS REQUIRED AT ANCHORS PER 11 / S001.
2. WHEN HOLDOWN (HD) OCCURS NEAR END OF SILL PLATE, LOCATE A SILL BOLT 6" MAXIMUM FROM HD BOLT.
3. PIPES OR CONDUITS IN FOOTINGS SHALL NOT BE LOCATED WITHIN "C" DISTANCE OF HOLDOWN ANCHORS AS SHOWN ON 11 / S001.

15 S003 HOLDOWN DETAIL

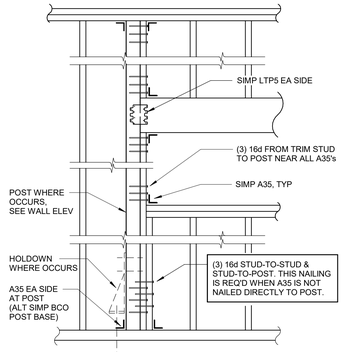
N.T.S. 6310-02B



NOTE: USE THESE DETAILS AS A MINIMUM UNLESS MORE STRINGENT CONDITIONS ARE SHOWN ELSEWHERE ON THESE DRAWINGS

16 S003 TYP FRAMING DETAIL

N.T.S. 6306-04

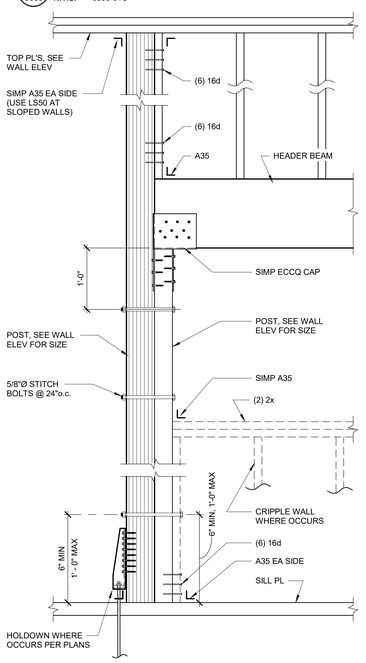


NOTES:

1. THIS DETAIL APPLIES AT ALL CONDITIONS WHERE A 3x STUD/POST (OR LARGER) REPLACES THE 2x FULL HEIGHT KING STUDS SHOWN ON DETAIL 5 / S003, TYP UON.
2. SEE DETAIL 5 / S003 FOR OTHER INFO.

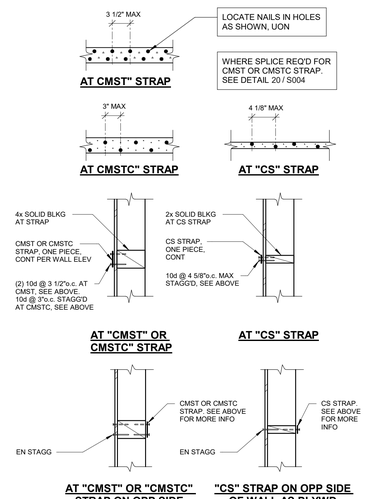
11 S003 TYP POST AT OPNG

N.T.S. 6303-01C



12 S003 DBL POST AT OPNG

N.T.S. 6303-03



13 S003 STRAP DETAIL

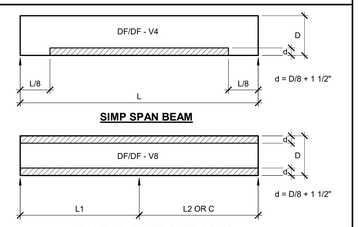
N.T.S. 6302-01

NAILING SCHEDULE

2022 CBC

NAILING: NAILING SHOWN BELOW IS MINIMUM PERMISSIBLE. DETAILS SHALL GOVERN WHEN THEIR NAILING IS MORE STRINGENT. ALL NAILS SHALL BE COMMON WIRE NAILS AND THEY SHALL BE DRIVEN PERPENDICULAR TO THE GRAIN INSTEAD OF TOENAILED IF POSSIBLE.

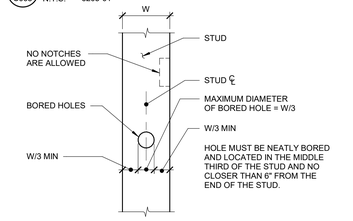
CONNECTION	NAILING	LOCATION
1. JOISTS SILL OR GIRDER	(3) 8d	TOENAIL
2. BRIDGING TO JOIST	(2) 8d	TOENAIL EACH END
3. 1" x 6" SUBFLOOR OR LESS TO EACH JOIST	(2) 8d	FACE NAIL
4. WIDER THAN 1" x 6" SUBFLOOR TO EACH JOIST	(3) 8d	FACE NAIL
5. 2" SUBFLOOR TO JOIST OR GIRDER	(2) 16d	BLIND AND FACE NAIL
6. SOLE PLATE TO JOIST OR BLOCKING	16d @ 16"o.c.	TYPICAL FACE NAIL
SOLE PLATE TO JOIST OR BLOCKING, AT BRACED WALL PANEL	(2) 16d @ 16"o.c.	BRACED WALL PANELS
7. TOP PLATE TO STUD	SEE STUD NAILING DETAIL 2 / S003	
8. STUD TO SILL (SOLE PLATE)		
9. DOUBLE STUDS	16d @ 24"o.c.	FACE NAIL
10. DOUBLE TOP PLATES DOUBLE TOP PLATES	16d @ 16"o.c. (8) 16d	TYPICAL FACE NAIL LAP SPLICE, UON
11. BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE	(3) 8d	TOENAIL
12. RIM JOIST TO TOP PLATE	8d @ 6"o.c.	TOENAIL
13. TOP PLATE, LAPS AND INTERSECTIONS	(2) 16d	FACE NAIL
14. CONTINUOUS HEADER, TWO PIECES	16d @ 16"o.c.	ALONG EACH EDGE
15. CEILING JOISTS TO PLATE	(3) 8d	TOENAIL
16. CONTINUOUS HEADER TO STUD	(4) 8d	TOENAIL
17. CEILING JOISTS, LAPS OVER PARTITIONS	(3) 16d	FACE NAIL
18. CEILING JOISTS TO PARALLEL RAFTERS	(3) 16d	FACE NAIL
19. RAFTERS TO PLATE	(3) 8d	TOENAIL
20. 1" DIAGONAL BRACE TO EACH STUD AND PLATE	(2) 8d	FACE NAIL
21. 1" x 8" SHEATHING, OR LESS TO EACH BEARING	(3) 8d	FACE NAIL
22. WIDER THAN 1" x 8" SHEATHING TO EACH BEARING	(3) 8d	FACE NAIL
23. BUILT-UP CORNER STUDS	16d @ 24"o.c.	FACE NAIL
24. BUILT-UP GIRDER AND BEAMS	20d @ 32"o.c. 10d @ 24"o.c. (2) 20d (3) 10d	FACE NAIL AT TOP AND BOTTOM, STAGG'D ON OPPOSITE SIDES FACE NAIL AT ENDS AND AT EACH SPLICE
25. 2" PLANKS	(2) 16d	EACH BEARING
26. COLLAR TIE TO RAFTER	(3) 10d	FACE NAIL
27. JACK RAFTER TO HIP	(3) 10d (2) 16d	TOENAIL FACE NAIL
28. ROOF RAFTER TO 2x RIDGE BEAM	(2) 16d (2) 16d	TOENAIL FACE NAIL
29. JOIST TO BAND JOIST	(3) 16d	FACE NAIL
30. LEDGER STRIP	(3) 16d	FACE NAIL AT EA JOIST



CROSS HATCHING INDICATES TENSION ZONE WHERE MINIMUM SPACING OF END JOINTS IN ADJACENT LAMINATIONS SHALL BE 6"

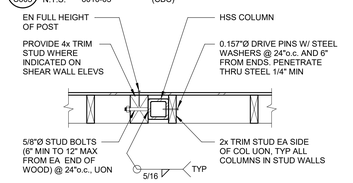
7 S003 GLU-LAM BEAM DETAIL

N.T.S. 6205-01



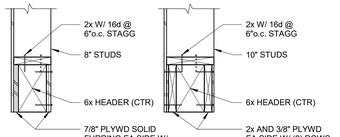
8 S003 NOTCHES & HOLES IN STUDS

N.T.S. 6010-03 (CBC)



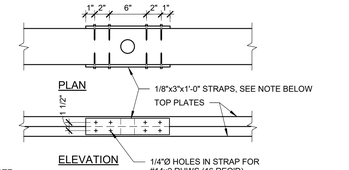
9 S003 TYP COL IN STUD WALL

N.T.S. 6309-02



10 S003 HEADERS AT 8" & 10" WALLS

N.T.S. 6303-02



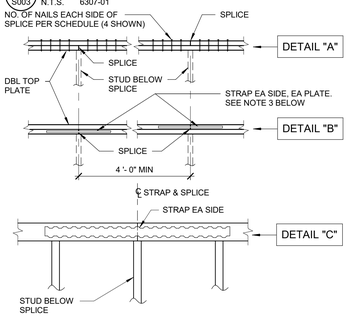
NOTE:

1/8"x3"x1'-0" STRAPS REQUIRED FOR HOLE DIAMETERS OF 1/3 TO 1/2 THE WIDTH OF WOOD PLATES. HOLES HAVING DIAMETERS GREATER THAN 1/2 OF THE PLATE WIDTH ARE NOT PERMITTED. NO HOLES PERMITTED IN TOP PLATES LESS THAN 5 1/2" WIDE.

THIS DETAIL APPLIES AT NON-BEARING, NON-SHEAR WALLS ONLY. NO HOLES PERMITTED IN BEARING WALLS OR SHEAR WALLS.

3 S003 TOP PLATE CUTOUT DETAIL

N.T.S. 6307-01



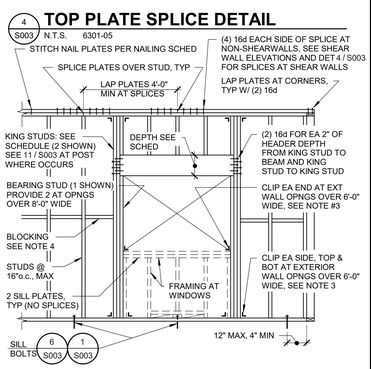
DETAIL "A" (NAILS)		DETAIL "B" (STRAPS)		DETAIL "C" (STRAPS AT 4x OR 6x)	
TYPE	NAIL SIZE	TYPE	SIMP STRAP	TYPE	SIMP STRAP
1	(4) - 16d	4	MSTA18	7	ST6236
2	(6) - 16d	5	MSTA24	8	MSTC52
3	(8) - 16d	6	MSTA30	9	

NOTES:

1. BOTH TOP AND BOTTOM PLATES MUST BE SPLICED.
2. ALL SPLICES ARE TO OCCUR OVER A STUD.
3. USE 10d x 1-1/2" NAILS WHEN STRAPS ARE APPLIED DIRECTLY TO TOP PLATES. USE 10d x 2-1/2" MIN NAILS WHEN STRAPS ARE APPLIED OVER PLYWOOD.

4 S003 TOP PLATE SPLICE DETAIL

N.T.S. 6301-05



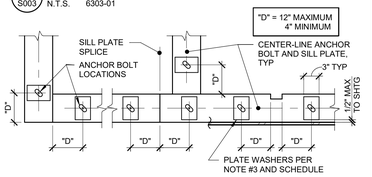
HEADER SPAN	NOMINAL HEADER DEPTH		NO. OF KING STUDS	
	BEARING WALL	NON-BEARING WALL	EXTERIOR WALL	INTERIOR WALL
UP TO 4'-0"	6"	4"	1	1
OVER 4' TO 8'-0"	8"	6"	2	1
OVER 8' TO 10'-0"	12"	8"	3	2
OVER 10' TO 12'-0"	14"	10"	3	2

NOTE:

1. UNLESS OTHERWISE NOTED, HEADERS SHALL BE THE SAME WIDTH AS STUDS. FUR GLU-LAM HEADERS WITH PLYWOOD TO FLUSH WITH WALL STUDS.
2. SEE NAILING SCHEDULE FOR TYPICAL NAILING. STITCH NAIL ALL MULTIPLE STUDS PER SCHEDULE.
3. UNLESS OTHERWISED NOTED: USE SIMPSON LS30 OR A34 AT 2x4 STUDS, LSS0 OR A35 AT 2x6 STUDS, LS70 AT 2x8 STUDS AND LS90 AT 2X10 STUDS.
4. BLOCKING REQUIRED AT ALL PLYWOOD SPLICES (10'-0" MAX FOR FIRE BLOCKING).
5. SEE DETAIL 11 / S003 WHERE POST OCCURS AT OPENING.

5 S003 TYP WALL & OPENING FRAMING

N.T.S. 6303-01



ANCHOR BOLT WASHER SCHEDULE	
WALL SIZE	MINIMUM WASHER SIZE
2x4	PLATE 0.229" x 3" x 3" (ALT SIMP BPS5/8-3)
2x6	PLATE 0.229" x 3" x 4 1/2" (ALT SIMP BPS5/8-6)
2x8	PLATE 1/4" x 3" x 6 1/4"
2x10	PLATE 3/8" x 3" x 8 1/4"

NOTES:

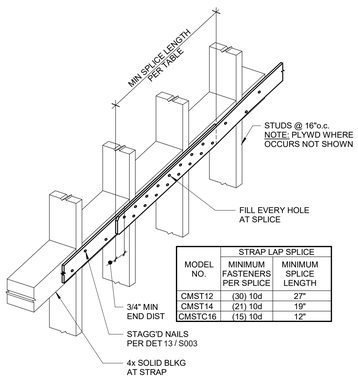
1. WHERE SILL PLATE IS NOTCHED OR DRILLED MORE THAN 1/3 OF ITS WIDTH, A BOLT SHALL BE PLACED ON EACH SIDE OF THE NOTCH.
2. PROVIDE 2 BOLTS MINIMUM EACH PIECE OF SILL PLATE. FOR WALL LESS THAN 2'-0" LONG, THE MINIMUM END DISTANCE MAY BE REDUCED TO 4x BOLT DIAMETER.
3. PROVIDE PLATE WASHERS PER SCHEDULE AT ALL SILL BOLTS. THE HOLE IN THE PLATE WASHER IS PERMITTED TO BE DIAGONALLY SLOTTED WITH A WIDTH OF UP TO 3/16" LARGER THAN THE BOLT DIAMETER AND A SLOT LENGTH NOT TO EXCEED 1-3/4", PROVIDED A STANDARD CUT WASHER IS PLACED BETWEEN THE PLATE WASHER AND THE NUT. THE WASHER PLATE SHALL EXTEND TO WITHIN 1/2" OF THE EDGE OF THE SILL PLATE ON THE SIDES WITH SHEATHING. ANCHOR BOLTS SHALL BE CENTERED ON THE SILL PLATE, TYPE UON.
4. STANDARD CUT WASHERS MAY BE USED AT INTERIOR NON-BEARING, NON-SHEAR WALLS.

6 S003 TYP SILL FRAMING PLAN

N.T.S. 6304-01

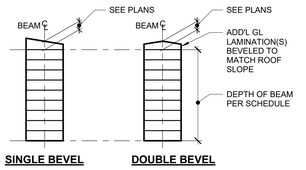
WOOD NOTES

1. LUMBER GRADES: ALL FRAMING LUMBER INCLUDING JOIST, RAFTERS, BEAMS, STUDS, POSTS, PLATES AND BLOCKING SHALL BE GRADE MARKED DOUGLAS FIR NO. 1, UNLESS OTHERWISE NOTED. ALL FRAMING LUMBER 3x AND LARGER SHALL BE FREE OF HEART CENTER.
2. GRADE MARKS: ALL GRADE MARKS ON FRAMING LUMBER AND PLYWOOD SHEATHING SHALL BE LEGIBLE.
3. SILL PLATES: SILL PLATES SHALL BE PRESSURE TREATED DOUGLAS FIR NO. 1 UNLESS OTHERWISE NOTED. EACH PIECE SHALL BEAR THE STAMP OF AN APPROVED INDEPENDENT AGENCY OPERATING UNDER ALSC OVERVIEW. TREATED WOOD, WHERE CUT, DRILLED OR NOTCHED, SHALL BE FIELD TREATED WITH PRESERVATIVE.
4. FASTENERS AND CONNECTORS FOR PRESERVATIVE-TREATED AND FIRE RETARDANT-TREATED WOOD: FASTENERS, INCLUDING NUTS AND WASHERS, SHALL BE OF HOT-DIPPED ZINC-COATED GALVANIZED STEEL COMPLYING WITH ASTM A153. FASTENERS OTHER THAN NAILS, WOOD SCREWS, AND LAG SCREWS SHALL BE PERMITTED TO BE OF MECHANICALLY DEPOSITED ZINC-COATED STEEL WITH COATING WEIGHTS IN ACCORDANCE WITH ASTM B-695, CLASS 55 MINIMUM. CONNECTORS USED IN EXTERIOR APPLICATIONS AND IN CONTACT WITH PRESERVATIVE-TREATED WOOD SHALL HAVE COATING TYPES AND WEIGHTS IN ACCORDANCE WITH THE TREATED WOOD OR CONNECTOR MANUFACTURERS RECOMMENDATIONS. IN THE ABSENCE OF MANUFACTURERS RECOMMENDATIONS, A MIN OF ASTM A653, TYPE G185 ZINC-COATED GALVANIZED STEEL, OR EQUIVALENT, SHALL BE USED.
5. SILL BOLTS / PLATE WASHERS: PROVIDE PLATE WASHERS NOT LESS THAN 0.229" x 3" x 3" AT ALL SILL BOLTS - USE A LARGER PLATE AS REQ'D BY STUD SIZE (SEE DETAIL 6 / S003). THE HOLE IN THE PLATE WASHER IS PERMITTED TO BE DIAGONALLY SLOTTED WITH A WIDTH OF UP TO 3/16" LARGER THAN THE BOLT DIAMETER AND A SLOT LENGTH NOT TO EXCEED 1 3/4", PROVIDED A STANDARD CUT WASHER IS PLACED BETWEEN THE PLATE WASHER AND THE NUT. THE PLATE WASHER SHALL EXTEND TO WITHIN 1/2" OF THE EDGE OF THE SILL PLATE, ON THE SIDE(S) WITH SHEATHING. STANDARD WASHERS MAY BE USED AT INTERIOR NON-BEARING, NON-SHEAR WALLS. SEE TYPICAL SILL FRAMING DETAIL. BOLTS AND PLATE WASHERS SHALL BE GALVANIZED AS REQUIRED BY NOTE #4 ABOVE.
6. HANGERS: ALL JOISTS AND BEAMS WHICH DO NOT BEAR DIRECTLY ON A SUPPORT SHALL BE PROVIDED WITH SIMPSON 'LU' AND 'HU' TYPE HANGERS, RESPECTIVELY, OF MATCHING SIZE OR EQUIVALENT, UNLESS HEAVIER CONNECTIONS ARE SHOWN. USE MAXIMUM NAIL POSSIBLE UON. PROVIDE SLOPED AND / OR SKEWED HANGERS AT SLOPED AND / OR SKEWED MEMBERS. JOISTS SHALL BEAR COMPLETELY ON THE CONNECTOR SEATS, AND THE GAP BETWEEN THE JOISTS END AND THE HEADER SHALL NOT EXCEED 1/8".
7. POST CAPS / BASES: ALL POSTS SHALL HAVE SIMPSON 'PCZ' POST CAPS AND 'BC' POST BASES AS APPLICABLE, OR EQUIVALENT, UNLESS HEAVIER CONNECTIONS ARE SHOWN.
8. NAILS: ALL NAILS, INCLUDING MACHINE NAILS, SHALL BE COMMON NAILS WITH FULL SIZE HEAD PER ASTM F1667. ALL NAILS FOR PRESSURE TREATED OR FIRE-RETARDANT LUMBER SHALL BE HOT-DIP GALVANIZED PER ASTM A153, CLASS D. NAILS WITH OTHER TYPES OF GALVANIZING MAY BE USED IF PRE-APPROVED BY THE ENFORCEMENT AGENCY. PROVIDE SUFFICIENT EDGE DISTANCE, END DISTANCE, AND SPACING TO PREVENT SPLITTING. REPLACE MEMBER IF SPLITTING OCCURS.
9. PREDRILLING: PREDRILL NAIL HOLES WHERE WOOD TENDS TO SPLIT. PREDRILL HOLES FOR ALL SCREWS AND LAG BOLTS.
10. BOLTS: ALL BOLTS, INCLUDING SILL ANCHOR BOLTS, SHALL BE FULL-DIAMETER CUT-THREAD BOLTS PRODUCED BY AN AMERICAN MANUFACTURER. NO "UPSET" THREADS ARE ALLOWED.
11. BOLT HOLES: ALL BOLT HOLES IN WOOD, INCLUDING SILL PLATES, SHALL BE 1/16" MAX OVERSIZE.
12. BOLT SPACING: SPACE ALL BOLTS IN WOOD 4 DIAMETERS MINIMUM WITH 7 DIAMETERS MINIMUM END DISTANCE UNLESS OTHERWISE NOTED.
13. STANDARD WASHERS: PROVIDE STANDARD CUT WASHERS UNDER ALL BOLT HEADS AND NUTS BEARING ON WOOD UNLESS OTHERWISE NOTED. PROVIDE WASHERS UNDER ALL LAG SCREW HEADS.
14. BOLT RETIGHTENING: RETIGHTEN ALL BOLTS PRIOR TO APPLICATION OF SHEATHING, PLASTER, ETC.
15. LAG SCREWS: ALL LAG SCREWS SHALL BE FULL BODY DIAMETER CUT THREAD LAG SCREWS WITH STANDARD HEX HEAD. "REDUCED BODY DIAMETER" SCREWS ARE NOT ALLOWED.
16. WOOD SCREWS: ALL WOOD SCREWS SHALL BE CUT THREAD WOOD SCREWS WITH FULL BODY DIAMETER.
17. BLOCKING AT BEARINGS: PLACE 2x SOLID BLOCKING BETWEEN JOISTS OR RAFTERS OVER ALL SUPPORTS. BLOCKING SHALL BE FULL DEPTH OF JOISTS.
18. BLOCKING / BRIDGING AT JOISTS AND RAFTERS: PROVIDE 2x FULL DEPTH SOLID BLOCKING FOR ROOF RAFTERS OVER 8" DEEP AND FLOOR JOISTS OVER 4" DEEP AT 8'-0"o.c. MAXIMUM. APPROVED METAL BRIDGING OR 2x3 CROSS BRIDGING MAY BE USED AT SAME SPACING. WHERE CROSS BRIDGING IS USED, THE LOWER ENDS SHALL BE DRIVEN UP AND NAILED AFTER THE FLOOR, SUBFLOOR, OR ROOF HAS BEEN NAILED.
19. BLOCKING IN WALLS: PROVIDE 2x BLOCKING SAME WIDTH AS WALL STUDS AT 10'-0"o.c. MAXIMUM IN STUD WALLS. PROVIDE 2x MINIMUM BLOCKING AT ALL EDGES OF PLYWOOD APPLIED TO STUD WALLS, UON. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE SOLID BLOCKING AT 48"o.c. MAX, OR OTHER MEANS OF LATERAL SUPPORT FOR STUDS IN BEARING WALLS WHICH ARE LOADED PRIOR TO RECEIVING SHEATHING OR GYP BOARD.
20. BLOCKING AT UNSHEATHED REGIONS OF WALLS: ALL BEARING WALLS REQUIRE SHEATHING OR GYP BOARD FULL HEIGHT TO PREVENT BUCKLING OF STUDS. REGIONS OF WALLS WHICH DO NOT RECEIVE PERMANENT SHEATHING OR GYP BOARD ON AT LEAST ON FACE SHALL BE PROVIDED WITH ROWS OF SOLID BLOCKING SPACED AT 48"o.c.
21. MISC. BLOCKING: IT IS NOT THE INTENT OF THESE DRAWINGS TO SHOW BLOCKING REQUIRED FOR FINISHES, FIRE BLOCKING, OR BLOCKING FOR THE ATTACHMENT OF NON-STRUCTURAL ITEMS. CONTRACTOR SHALL PROVIDE ALL REQUIRED BLOCKING. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
22. HOLES IN JOISTS AND BEAMS: HOLES OR NOTCHES ARE NOT ALLOWED IN JOISTS OR BEAMS UNLESS SPECIFICALLY SHOWN A

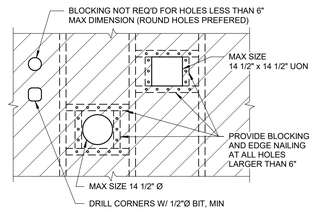


MODEL NO.	STRAP LAP SPLICE	
	MINIMUM FASTENERS PER SPLICE	MINIMUM SPLICE LENGTH
CMST12	(30) 10d	27"
CMST14	(21) 10d	19"
CMSTC16	(15) 10d	12"

20 S004 STRAP DETAIL
N.T.S. 6302-03

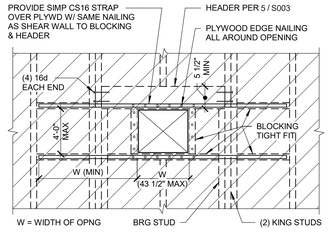


21 S004 BEVELED GLU-LAMS
N.T.S. 6003-03



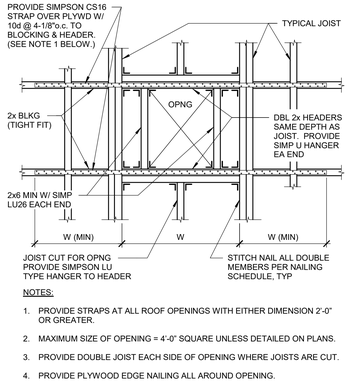
NOTE: THIS DETAIL APPLIES TO ALL HOLES THRU SHEAR WALLS UON. SEE DETAIL 23 / S004 FOR HOLES WHICH CUT THRU STUDS OR EXCEED THESE DIMENSIONS.

22 S004 HOLES IN SHEAR WALL
1" = 1'-0"



NOTE: THIS DETAIL APPLIES TO ALL HOLES THRU SHEAR WALLS UON. SEE DETAIL 22 / S004 FOR HOLES WHICH DO NOT CUT THRU STUDS.

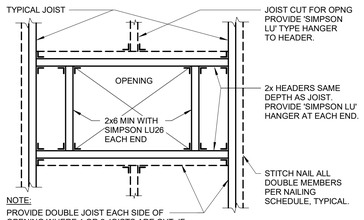
23 S004 HOLES IN SHEAR WALL
1" = 1'-0"



NOTES:

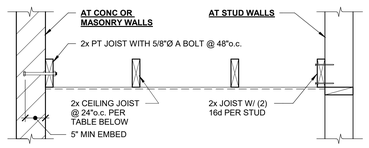
1. PROVIDE STRAPS AT ALL ROOF OPENINGS WITH EITHER DIMENSION 2'-0" OR GREATER.
2. MAXIMUM SIZE OF OPENING = 4'-0" SQUARE UNLESS DETAILED ON PLANS.
3. PROVIDE DOUBLE JOIST EACH SIDE OF OPENING WHERE JOISTS ARE CUT.
4. PROVIDE PLYWOOD EDGE NAILING ALL AROUND OPENING.

17 S004 FRMG AT LRG ROOF/FLR OPNG
N.T.S. 6011-01 (AT STICK FRAMING)

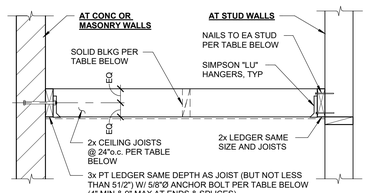


NOTE:
PROVIDE DOUBLE JOIST EACH SIDE OF OPENING WHERE 1 OR 2 JOISTS ARE CUT. IF MORE THAN 2 JOISTS ARE CUT, SEE FRAMING PLAN.

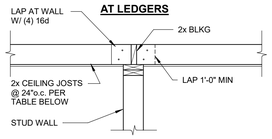
18 S004 TYP FRMG AT CLG OPENINGS
N.T.S. 6011-02



AT JOISTS PARALLEL TO WALL



AT LEDGERS



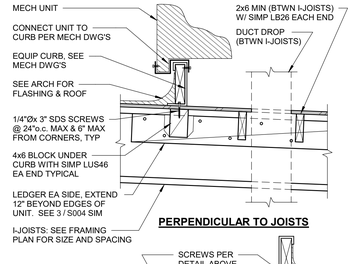
AT INTERIOR WALLS

JOIST SIZE	MAX SPAN		LEDGER NAILS	BOLT SPACING	BLOCKING (NOTE #5)
	GYP BD	PLASTER			
2x4	6'-0"	4'-0"	(2) 16d	48"o.c.	NOT REQ'D
2x6	12'-0"	8'-0"	(2) 16d	48"o.c.	MID SPAN
2x8	16'-0"	12'-0"	(3) 16d	32"o.c.	MID SPAN
2x10	20'-0"	16'-0"	(3) 16d	32"o.c.	TWO ROWS
2x12	24'-0"	20'-0"	(4) 16d	24"o.c.	TWO ROWS

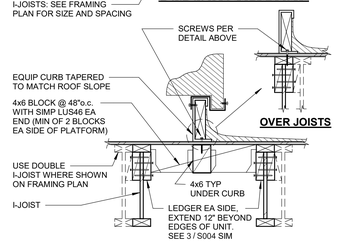
NOTES:

1. DESIGN LOADS: DL = 6 psf AT GYP BD; 10 psf AT PLASTER
   LL = 10 psf
2. AT CONTRACTOR'S OPTION, 10d x 1-1/2" NAILS MAY BE USED FOR ATTACHMENT OF JOIST HANGERS TO LEDGERS.
3. SPACE CEILING JOISTS @ 16"o.c. AT FIRE RATED CONSTUCTION, WHERE REQ'D PER ARCH DWGS.
4. SEE "TYPICAL FRAMING AT OPENINGS" FOR FRAMING AT OPENINGS OR RECESSED FIXTURES.
5. ROWS OF BLOCKING TO BE EQUALLY SPACED BETWEEN SUPPORTS.

19 S004 TYP CEILING FRAMING
N.T.S. 6009-03



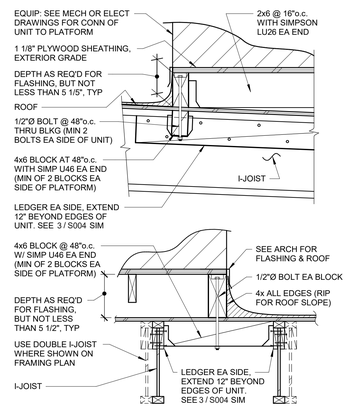
PERPENDICULAR TO JOISTS



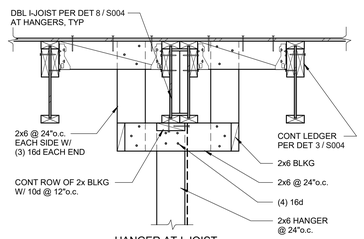
OVER JOISTS

BETWEEN JOISTS

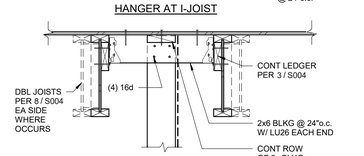
14 S004 FRAMING AT MECH EQUIP
N.T.S. 6105-01i (AT I-JOIST FRAMING)



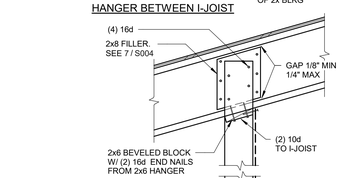
15 S004 EQUIP PLATFORM
N.T.S. 6102-02i (AT I-JOIST FRAMING)



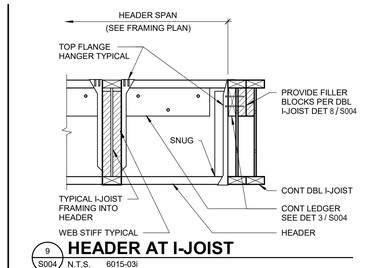
HANGER AT I-JOIST



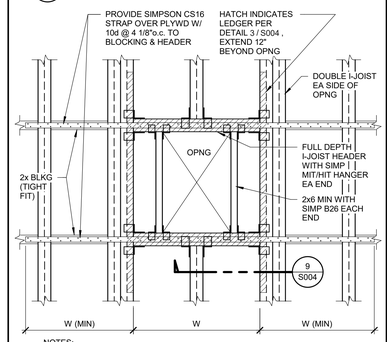
HANGER BETWEEN I-JOISTS



16 S004 SOFFIT DETAIL
N.T.S. 6018-02



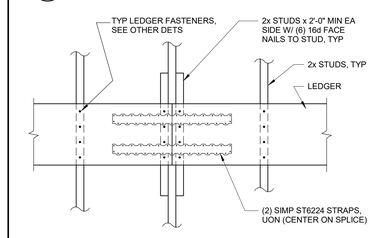
9 S004 HEADER AT I-JOIST
N.T.S. 6015-03i



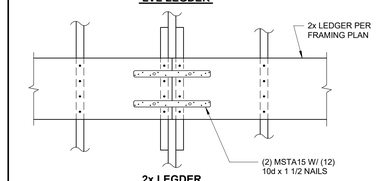
NOTES:

1. PROVIDE STRAPS AT ALL ROOF OPENINGS WITH EITHER DIMENSION 2'-0" OR GREATER.
2. MAXIMUM SIZE OF OPENING = 4'-0" SQUARE UNLESS DETAILED ON PLANS.
3. PROVIDE DOUBLE JOIST EACH SIDE OF OPENING WHERE JOISTS ARE CUT.
4. PROVIDE PLYWOOD EDGE NAILING ALL AROUND OPENING.

10 S004 TYPICAL FRAMING AT OPENINGS
N.T.S. 6103-02Ai (AT I-JOISTS)

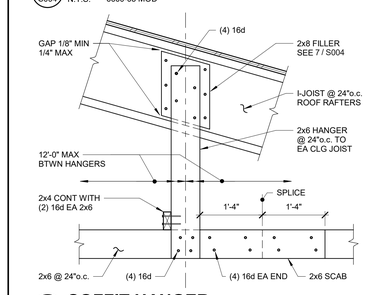


LVL LEDGER

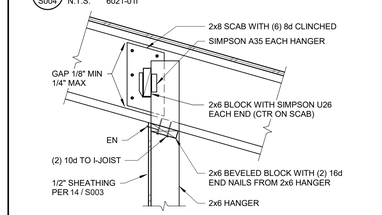


2x LEGDER

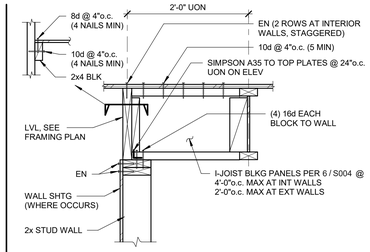
11 S004 TYP LEDGER SPLICE DET
N.T.S. 6600-05 MOD



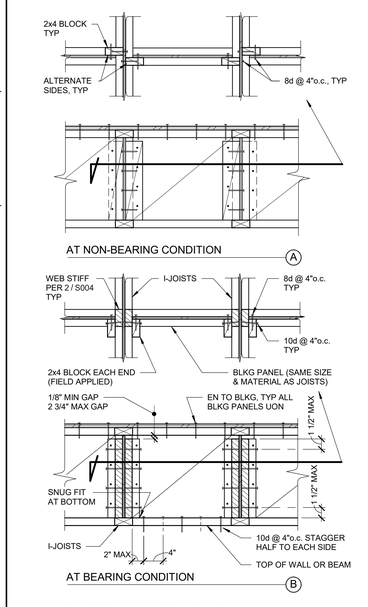
12 S004 SOFFIT HANGER
N.T.S. 6021-01i



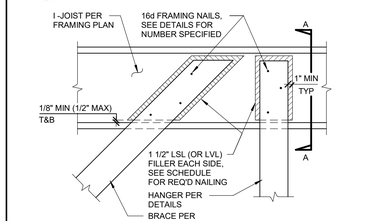
13 S004 HANGER BETWEEN I-JOISTS
N.T.S. 6019-01i



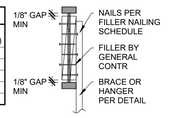
5 S004 LATERAL WALL SUPPORT (LVL)
N.T.S. 6300-03



6 S004 I-JOIST BLOCKING
N.T.S. 6013-01ai

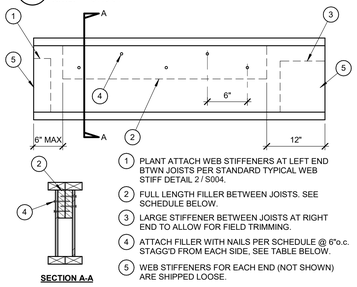


FILLER NAILING SCHEDULE	
FRAMING NAILS PER DETAILS	REQ'D FILLER NAILS (EACH SIDE)
(2) 16d	(2) 16d
(3) 16d	(2) 16d
(4) 16d	(3) 16d
(5) 16d	(4) 16d
(6) 16d	(5) 16d



SECTION A-A

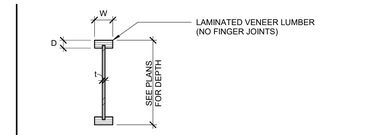
7 S004 FILLER BLOCK DETAIL
N.T.S. 6110-04



1. PLANT ATTACH WEB STIFFENERS AT LEFT END BTWN JOISTS PER STANDARD TYPICAL WEB STIFF DETAIL 2 / S004.
2. FULL LENGTH FILLER BETWEEN JOISTS. SEE SCHEDULE BELOW.
3. LARGE STIFFENER BETWEEN JOISTS AT RIGHT END TO ALLOW FOR FIELD TRIMMING.
4. ATTACH FILLER WITH NAILS PER SCHEDULE @ 6"o.c. STAGG'D FROM EACH SIDE, SEE TABLE BELOW.
5. WEB STIFFENERS FOR EACH END (NOT SHOWN) ARE SHIPPED LOOSE.

I-JOIST FLANGE WIDTH (IN)	FILLER			FASTENER
	DEPTH	THICKNESS	MATERIAL	
3 1/2"	5 1/2"	2 - 1 1/2"	LSL OR LVL	16d
2 1/2"	5 1/2"	2 - 1"	LSL OR LVL	8d

8 S004 DOUBLE I-JOIST DETAIL
N.T.S. 6014-03



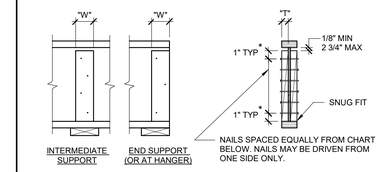
I-JOIST	FLANGE		WEB	
	W	D	THICK "t"	MATERIAL
14" RED-I90	3 1/2"	1 1/2"	7/16"	OSB
16" RED-I90	3 1/2"	1 1/2"	7/16"	OSB
20" RED-I90	3 1/2"	1 1/2"	7/16"	OSB

MINIMUM SECTION PROPERTIES			
I-JOIST	M ALLOW (lf-ft) AT 100%	V ALLOW (#) AT 100%	EI (10^6#lf-in^2)
14" RED-I90	11,430	2,540	913
16" RED-I90	13,115	2,810	1,246
20" RED-I90	16,435	3,345	2,085

NOTES:

1. RED-I JOISTS ARE MANUFACTURED BY RED BUILT, LLC.
   THE RED-I SECTION PROPERTIES ARE BASED ON ICC ESR-2994.

1 S004 I-JOIST PROPERTIES SCHEDULE
N.T.S. 6016-01A



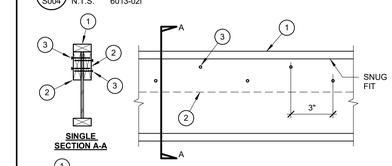
* 1 1/2" TYP AT 2x4 WEB STIFFENERS

I-JOIST DEPTH/SERIES	NO. OF NAILS REQUIRED		MIN WEB STIFFENER WIDTH "W"	MIN WEB STIFFENER THICK "T"
	END OR HANGER	INTERMEDIATE		
14" RED-I90	(3) 16d	(3) 16d	3 1/2"	1 1/2"
16" RED-I90	(4) 16d	(4) 16d	3 1/2"	1 1/2"
20" RED-I90	(5) 16d	(5) 16d	3 1/2"	1 1/2"

NOTES:

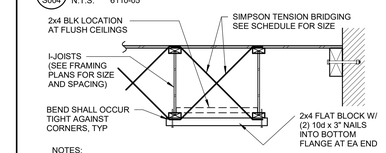
1. ALL STIFFENERS ARE TO BE SUPPLIED BY MANUFACTURER.
2. WEB STIFFENERS ARE REQUIRED AT ALL BEARINGS AND AT HANGERS.
3. GAP MUST BE AT THE TOP FOR ALL BEARING CONDITIONS. STIFFENER MUST BE SNUG TO BOTTOM CHORD.
4. WEB STIFFENER MATERIAL FOR I-90 SHALL BE 2x4 CONST GRADE OR LVL.

2 S004 I-JOIST WEB STIFFENERS
N.T.S. 6013-02i



I-JOIST FLANGE WIDTH (IN)	LEDGER			FASTENER
	DEPTH	THICKNESS	MATERIAL	
3 1/2"	5 1/2"	1 1/2"	LSL OR LVL	16d
2 1/2"	5 1/2"	1"	LSL OR LVL	8d

3 S004 CONTINUOUS LEDGER AT I-JOIST
N.T.S. 6110-05



NOTES:

1. PROVIDE CONTINUOUS ROWS OF BRIDGING @ 14'-0"o.c. MAX FOR I-90 AND 10'-0"o.c. MAX FOR I-65. PROVIDE ONE ROW WITHIN 1'-0" OF ENDS OF JOISTS SUPPORTED BY TOP FLANGE HANGERS.
2. APPLY BRIDGING BETWEEN JOISTS W/ (2) 10d x 1 1/2" NAILS EA END.
3. LOWER ENDS OF CROSS BRIDGING SHALL BE DRIVEN UP AND NAILED AFTER THE ROOF SHEATHING HAS BEEN NAILED, TYPICAL.
4. BRIDGING SHALL BE STRAIGHT. NO BOWING OR KINKS ALLOWED, TYPICAL.

JOIST HEIGHT	JOIST SPACING (INCHES)								
	12	16	19.2	24	30	32	36	42	48
9 1/2	TB20	TB27	TB27	TB30	TB36	TB36	TB42	TB48	TB54
10	TB20	TB27	TB27	TB30	TB36	TB36	TB42	TB48	TB54
11 7/8	TB20	TB27	TB27	TB30	TB36	TB36	TB42	TB48	TB54
12	TB20	TB27	TB27	TB30	TB36	TB36	TB42	TB48	TB54
14	TB27	TB27	TB27	TB36	TB36	TB42	TB42	TB48	TB54
16	TB27	TB27	TB30	TB36	TB42	TB42	TB42	TB48	TB54
18	TB27	TB30	TB30	TB36	TB42	TB42	TB48	TB54	TB56
20	TB30	TB30	TB36	TB36	TB42	TB42	TB48	TB54	TB56
22	TB30	TB36	TB36	TB36	TB42	TB42	TB48	TB54	TB56
24	TB36	TB36	TB36	TB42	TB42	TB48	TB48	TB54	TB56

4 S004 I-JOIST BRIDGING DETAIL
N.T.S. 6111-01i

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125726 INC:
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DATE: 04/28/2026

SGPA
ARCHITECTURE AND PLANNING
3111 CAMINO DEL RIO NORTH,
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ASD
ADVANCED STRUCTURAL DESIGN, INC.
7112 N. FRESNO STREET, SUITE 311
FRESNO, CALIFORNIA 93720
(559) 432-4151 | asdi@asdiengr.com

REGISTERED PROFESSIONAL ENGINEER MARK T. BOZZO No. S5937 Exp. 6-30-2026 STRUCTURAL CIVIL

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KERN HIGH SCHOOL DISTRICT
5801 SUNDALE AVE.
BAKERSFIELD, CA 93309

CENTRAL VALLEY
CONTINUATION HIGH SCHOOL CAMPUS
526 MANNEL AVENUE
SHAFTER, CA 93263

DRAWING SUBMITTAL SCHEDULE

100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO:22434-E-01

TYPICAL NOTES AND DETAILS

S004

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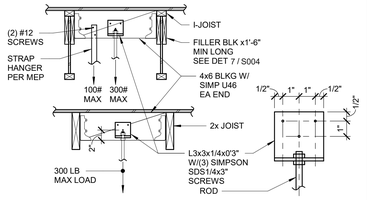
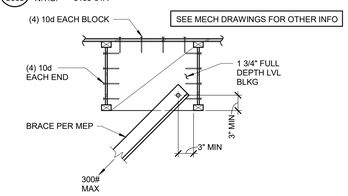


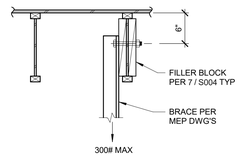
SEE MECH DRAWINGS FOR OTHER INFO

6 S005 DETAIL AT ROD HANGER

N.T.S. 6105-01A



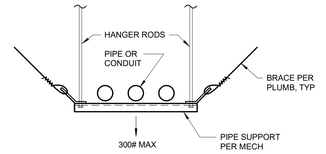
BRACE PERPENDICULAR TO JOIST



BRACE PARALLEL TO JOIST

7 S005 DETAIL AT BRACE

N.T.S.

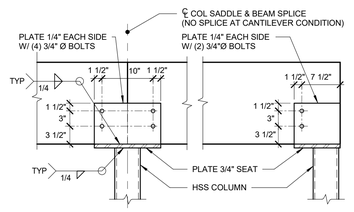


SEE MECH DRAWINGS FOR OTHER INFO

SEE MECH DRAWINGS FOR OTHER INFO

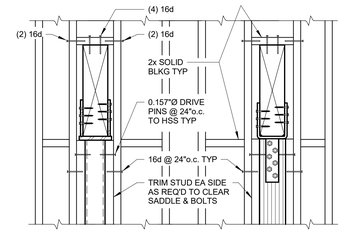
8 S005 DETAIL

N.T.S.



1 S005 GLU-LAM TO HSS CONN

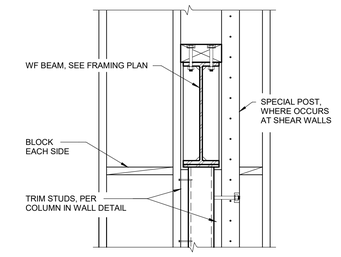
N.T.S. 6202-01A



AT HSS COL **AT POST**

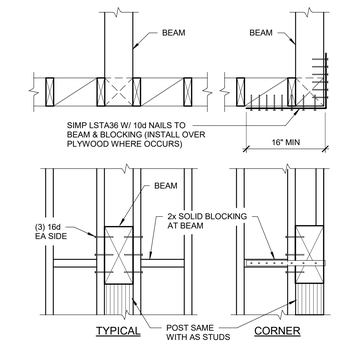
2 S005 TYP GL INTO STUD WALL

N.T.S. 6306-06A



3 S005 TYP WF BEAM TO STUD WALL

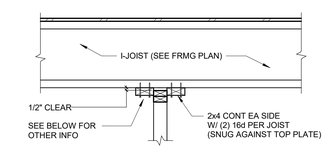
N.T.S. 6306-07



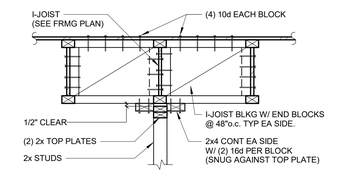
TYPICAL **CORNER**

4 S005 TYP BEAM INTO STUD WALL

N.T.S. 6306-05



WALL PERPENDICULAR TO JOISTS



WALL PARALLEL TO JOISTS

5 S005 NON-BEARING WALL TOP PLATE

N.T.S. 6305-03I

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DIV. OF THE STATE ARCHITECT
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(559) 432-4151 | asd@asdiengr.com
ASD # 5/24/02

REGISTERED PROFESSIONAL ENGINEER
MARK T. BOZZO
No. S5927
Exp. 6-30-26
STRUCTURAL
STATE OF CALIFORNIA

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KERN HIGH SCHOOL DISTRICT
5801 SUNDALE AVE.
BAKERSFIELD, CA 93309

CENTRAL VALLEY
CONTINUATION HIGH SCHOOL CAMPUS
526 MANNEL AVENUE
SHAFTER, CA 93263

DRAWING SUBMITTAL SCHEDULE

100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO:22434-E-01

TYPICAL NOTES AND DETAILS

S005

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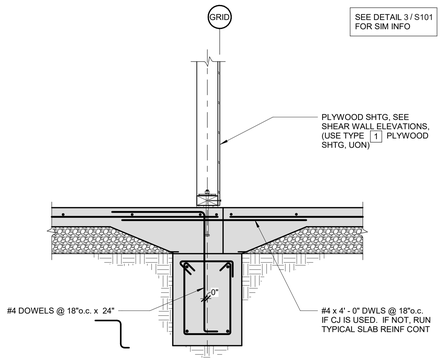
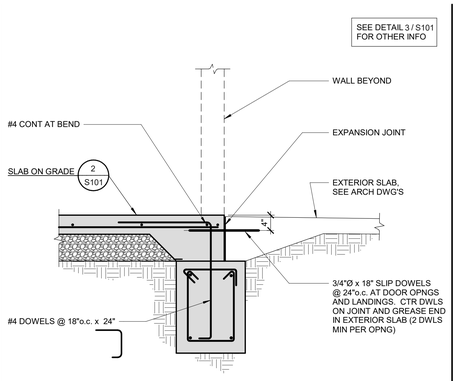
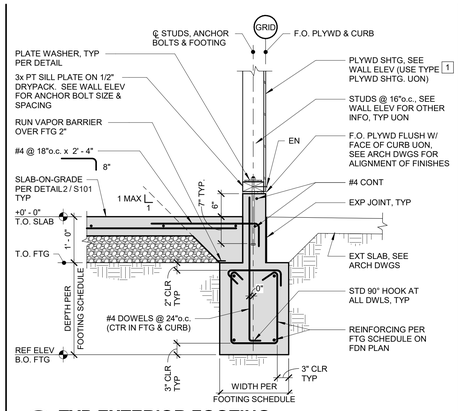


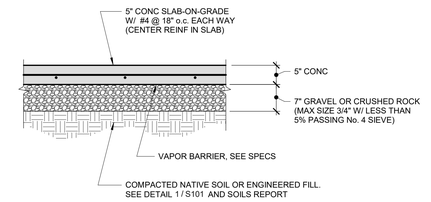
5 S101 **INTERIOR WALL FOOTING**
3/4" = 1'-0"



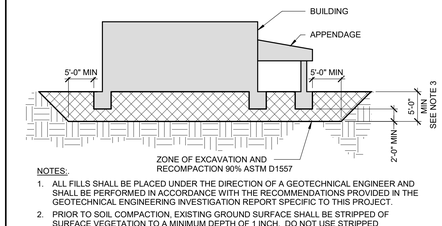
4 S101 **FOOTING AT DOOR OPNG'S**
3/4" = 1'-0"



3 S101 **TYP EXTERIOR FOOTING**
3/4" = 1'-0"

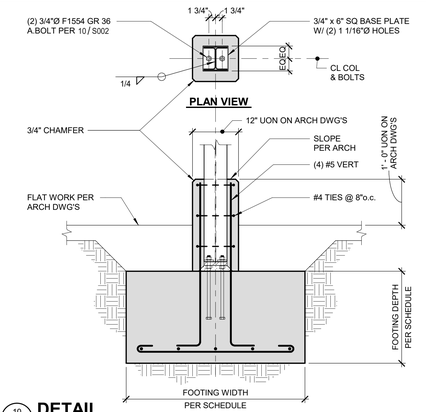


2 S101 **TYP SLAB ON GRADE**
3/4" = 1'-0"

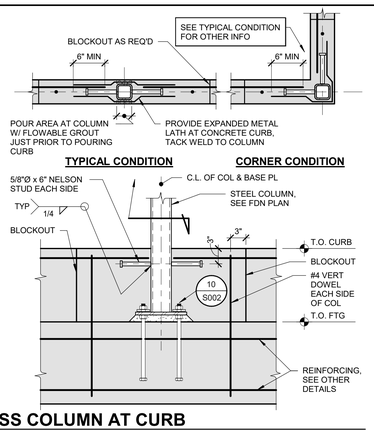


NOTES:
1. ALL FILLS SHALL BE PLACED UNDER THE DIRECTION OF A GEOTECHNICAL ENGINEER AND SHALL BE PERFORMED IN ACCORDANCE WITH THE RECOMMENDATIONS PROVIDED IN THE GEOTECHNICAL ENGINEERING INVESTIGATION REPORT SPECIFIC TO THIS PROJECT.
2. PRIOR TO SOIL COMPACTION, EXISTING GROUND SURFACE SHALL BE STRIPPED OF SURFACE VEGETATION TO A MINIMUM DEPTH OF 1 INCH. DO NOT USE STRIPPED MATERIAL FOR ENGINEERED FILL.
3. EXCAVATE TO A MINIMUM DEPTH OF 5 FEET BELOW EXISTING GRADE OR 2 FEET BELOW BOTTOM OF FOOTINGS, WHICHEVER IS DEEPER.
4. SCARIFY AND RECOMPACT THE TOP 8 INCHES TO A MINIMUM 90% COMPACTION PER ASTM D1557.
5. EXTEND THE ZONE OF SCARIFICATION AND COMPACTION A MIN OF 5 FEET BEYOND THE PERIMETER OF BUILDINGS.
6. SEE SOILS REPORT LISTED IN DESIGN DATA AND SPECIFICATIONS FOR OTHER INFO.

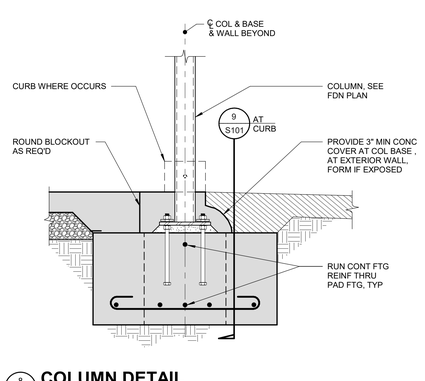
1 S101 **EXCAVATION AND COMPACTION**
3/16" = 1'-0"



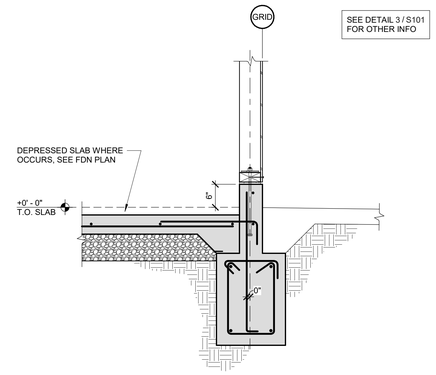
10 S101 **DETAIL**
3/4" = 1'-0"



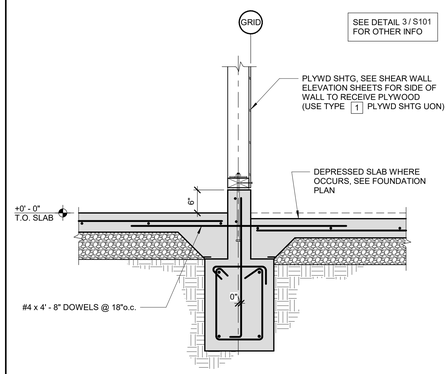
9 S101 **HSS COLUMN AT CURB**
N.T.S. 3501-03



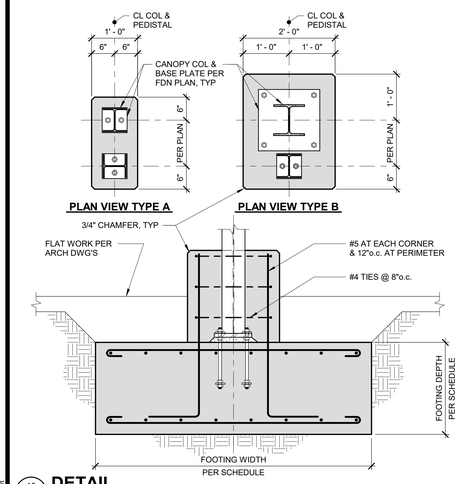
8 S101 **COLUMN DETAIL**
N.T.S. 3501-04



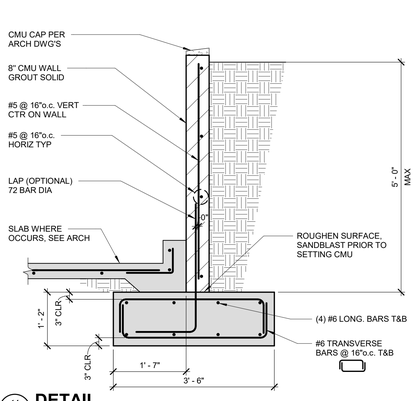
7 S101 **EXTERIOR WALL FOOTING**
3/4" = 1'-0"



6 S101 **INTERIOR WALL FOOTING**
3/4" = 1'-0"

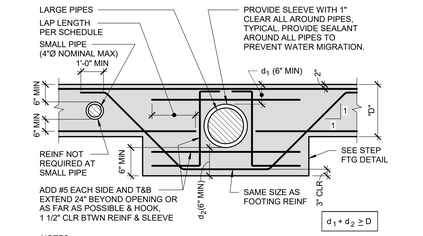


15 S101 **DETAIL**
3/4" = 1'-0"



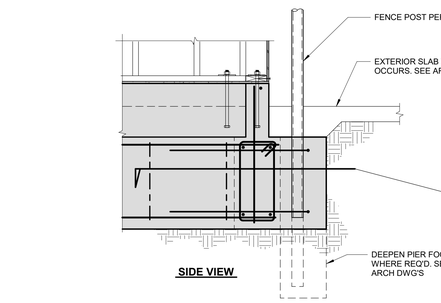
14 S101 **DETAIL**
3/4" = 1'-0"

NOTE: PIPES THRU FOOTINGS ARE PERMITTED ONLY WHERE SPECIFICALLY INDICATED ON FOUNDATION PLANS

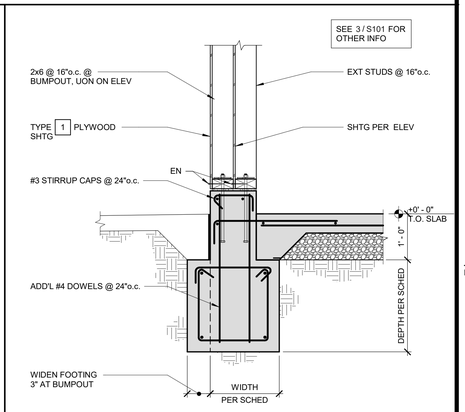


NOTES:
1. ALL PENETRATIONS SHALL BE PERPENDICULAR TO THE LINE OF THE FOOTING, TYPICAL.
2. NO PIPES ALLOWED THRU COLUMN PADS.
3. PIPES OR CONDUITES IN FOOTINGS SHALL NOT BE LOCATED WITHIN "C" DISTANCE OF HOLDOWN ANCHORS AS SHOWN ON
4. SLEEVES FOR ADJACENT PIPES SHALL BE SPACED NO CLOSER THAN THREE DIAMETERS, CENTER LINE TO CENTER LINE, BASED ON DIAMETER OF LARGER SLEEVE.

13 S101 **PIPES THRU FOOTINGS**
N.T.S. 3005-04



12 S101 **BUMP-OUTS AT FENCE POST**
3/4" = 1'-0"



16 S101 **DETAIL AT BUMP-OUT**
3/4" = 1'-0"

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PROJECT NO:22434-E-01

FOOTING DETAILS

S101

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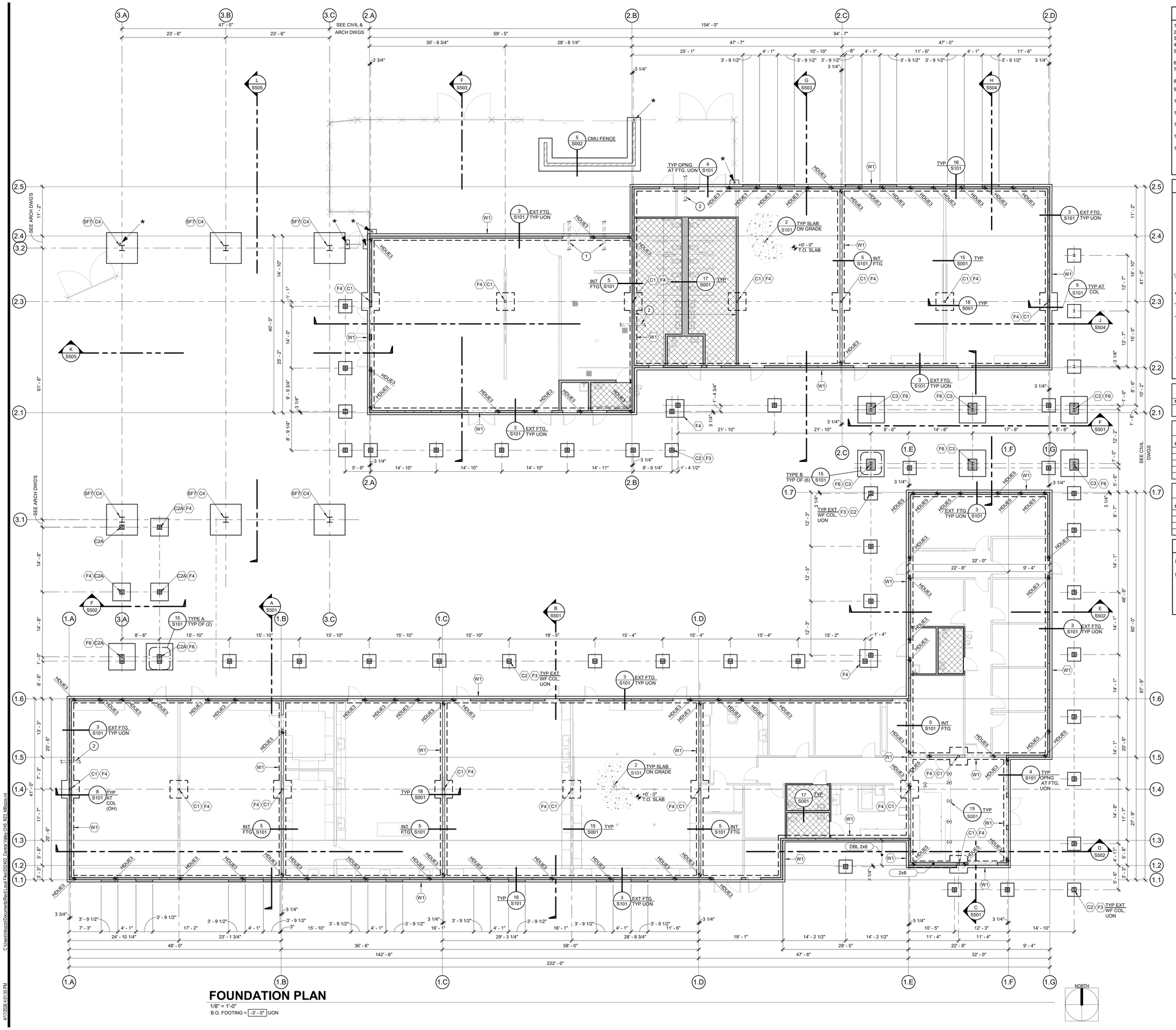

FOUNDATION PLAN

1/8" = 1'-0"

B.O. FOOTING = -3' - 0" UON

FOUNDATION NOTES

1. FOR GENERAL / FOUNDATION NOTES SEE SHEET S201.
2. FOR FOUNDATION FORMING DETAIL SEE 1 / S001.
3. FOR REINF AT TYPICAL FOOTING SEE DETAIL 3 / S101.
4. FOR TYPICAL COLUMN FOOTING SEE DETAIL 18 / S001.
5. FOR REINFORCING AT MASONRY WALLS SEE DETAIL 5 / S002.
6. SEE DETAIL 3 / S101 FOR TYPICAL SLAB DETAILS.
7. SEE DETAILS 2, 3, 4, 5 / S001 WHERE PIPES OCCUR AT FOOTINGS.
8. SEE DETAIL 9 / S001 FOR STEPS IN FOOTINGS.
9. SEE DETAIL 6 / S001 FOR REINFORCING AT FOOTING CORNERS AND INTERSECTIONS.
10. VERIFY LOCATIONS AND DEPTHS OF DEPRESSED SLABS W/ ARCH DRAWINGS PRIOR TO CONSTRUCTION.
11. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF SIDEWALKS, PLANTERS, AND MOW STRIPS.
12. SEE SHEETS S601 & S605 FOR SHEAR WALL ELEVATIONS.
13. SEE ARCHITECTURAL DRAWINGS FOR FLOOR DRAIN LOCATIONS.
14. DIMENSIONS AND GRID LINES ARE FROM F.O. PLYWOOD OR ℄ OF COLUMNS, TYP UON.

LEGEND

- S- - - S = STEP BOTTOM OF FTG PER DET 9 / S001
- = COLUMN / FOOTING TYPE
- = BOTTOM OF FOOTING ELEVATION
- = WOOD POST, SEE FRMG PLAN FOR SIZE
- HDU = SIMPSON HOLDOWN PER DET 15 / S003
- XXX = NOMINAL SIZE OF STUDS WHEN OTHER THAN 2x6. SEE ALSO SHEAR WALL ELEVATIONS.
- = BRACED FRAME LINE
- = 8" CMU WALL
- = 6" HIGH CONC CURB
- = STEEL FENCE POST EMBEDED INTO FTGS. BUMP OUT FTG PER DETAIL 12 / S101 WHERE REQ'D
- = DEPRESSED SLAB AREA (- 2" UON), SEE DET 16 / S001

CONT FOOTING SCHEDULE

MARK	PLAN DIMENSION	DEPTH	REINFORCMENT
W1	1' - 6"	2' - 0"	(2) #5 CONT T&B; #3 STIRRUPS @ 12"o.c.

COLUMN SCHEDULE

MARK	SIZE	BASE PLATE	REF DET UON
C1	HSS5X5X1/4	3/4"X11"SQ	10/S002
C2	W6X15	3/4"x6 1/2"SQ	10/S101
C2A	W6X15	1"x16" SQ	11/S702
C3	W8X31	1"x16" SQ	11/S702
C4	W14X132	1"x COL DIM	16/S702

SPREAD FTG SCHEDULE

MARK	PLAN DIMENSION	DEPTH	REINFORCEMENT
F3	3 - 0"	2' - 0"	(4) #6 EW BOTTOM BARS
F4	4' - 0"	2' - 0"	(5) #6 EW BOTTOM BARS
F6	6' - 0"	2' - 0"	(8) #6 EW TOP & BOTTOM
SF7	7' - 0"	3' - 0"	(10) #8 EACH WAY T&B

KEYNOTES

1. PIPE THRU FOOTINGS PER DETAIL 13 / S101
2. PIPES BELOW FOOTING PER DETAIL 2 / S001

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	100% CONSTRUCTION DOCUMENTS	11/21/2025
	DWG V2	02/27/2026
	DWG V3	04/28/2026

1	Revision 1	Date 1

PROJECT NO:22434-E-01

FOUNDATION PLAN

S201

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LEDGEND

- = INDICATES TOP OF STEEL ELEVATION
- CAMBER
- ELEV FROM T.O. STEEL
- W18x35 +3/4" (-2")
- = INDICATES MOMENT CONNECTION. SEE DETAIL 19 / S702
- [SFRS] = INDICATES FRAMING MEMBER IS PART OF SEISIMIC FORCE RESISTING SYSTEM

STEEL FRAMING NOTES

1. SEE TYPICAL DETAIL SHEETS FOR GENERAL NOTES, SCHEDULES, AND TYPICAL DETAILS. WHERE SPECIFIC DETAILS ARE NOT SHOWN, THE TYPICAL DETAILS SHALL APPLY.
2. SEE DETAIL 17 / S002 FOR TYPICAL BEAM CONNECTIONS.

I-JOIST SCHEDULE

MARK	SIZE	SPACING
J1	14" RED-I90	24"o.c.
J2	16" RED-I90	24"o.c.
J3	20" RED-I90	24"o.c.

JOIST / RAFTERS

MARK	SIZE	SPACING
R1	2x10	24"o.c.

BEAM SCHEDULE

MARK	SIZE	MARK	SIZE
B1	4x6	B6	6x6
B2	4x8	B7	6x8
B3	4x10	B8	6x10
B4	4x12	B9	6x12
B5	4x14	B10	6x14

WOOD FRAMING NOTES

1. ELEVATIONS ARE GIVEN TO TOP OF FRAMING (BOTTOM OF SHEATHING) UNLESS OTHERWISE NOTED.
2. SEE TYPICAL DETAIL SHEETS FOR GENERAL NOTES, SCHEDULES, AND TYPICAL DETAILS. WHERE SPECIFIC DETAILS ARE NOT SHOWN, THE TYPICAL DETAILS SHALL APPLY.
3. VERIFY SIZE AND LOCATION OF OPENINGS FOR EQUIPMENT WITH MECHANICAL AND ELECTRICAL DRAWINGS. LOCATE UNITS SO DUCT DROPS FALL BETWEEN JOISTS AS SHOWN. DO NOT CUT JOISTS EXCEPT WHERE SHOWN ON DRAWINGS. UNIT WEIGHTS SHOWN ARE THE WEIGHTS USED FOR DESIGN OF THE FRAMING. WEIGHTS OF UNITS SHALL NOT EXCEED THESE WEIGHTS WITHOUT THE ADVANCE APPROVAL OF THE STRUCTURAL ENGINEER.
4. SEE TYPICAL DETAILS FOR FRAMING AT ROOF OPENINGS, UNLESS OTHERWISE NOTED.
5. SEE TYPICAL DETAILS FOR FRAMING OF EQUIPMENT PLATFORMS.
6. PROVIDE POSTS UNDER ALL BEAMS UNLESS DETAILS SHOW OTHERWISE. POSTS SHALL BE AT LEAST AS WIDE AS THE BEAMS AND AS DEEP AS THE WALL STUDS.
7. PROVIDE PLYWOOD EDGE NAILING (EN) ALONG ALL RAFTERS, BLOCKING, AND STRUTS ALONG SHEAR WALL LINES.
8. ALL SIMPSON CONNECTORS ARE TAKEN FROM CATALOG C-C 2025 BY SIMPSON STRONGTIE, INC.
9. IT IS NOT THE INTENT OF THESE DRAWINGS TO SHOW FIRE BLOCKING OR BLOCKING REQUIRED FOR FINISHES OR OTHER NON-STRUCTURAL ELEMENTS. SEE ARCH DRAWINGS AND SPECIFICATIONS.
10. SEE ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATIONS OF ROOF ACCESSES. PROVIDE FRAMING AND BLOCKING AROUND OPENINGS PER TYPICAL DETAILS UNLESS OTHERWISE NOTED WHERE APPLICABLE, FRAME OPENING IN CEILING FRAMING ALSO.
11. PROVIDE FRAMING AT ALL HARD CEILINGS PER DETAIL 19 / S004 UNLESS OTHERWISE NOTED. REFER TO THE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF HARD CEILINGS.

LVL & LSL NOTES

1. ALL LVL BEAMS AND JOISTS SHALL BE GRADE 2.0E; F_b = 2,900psi. REDLAM OR APPROVED EQUAL
2. LSL LEDGERS OR RIM BOARDS SHALL BE GRADE 1.3E; Fb = 1,700psi. 1-1/2" MIN THICKNESS REDLAM LVL OR REDBUILT LSL RIM BOARD OR APPROVED EQUAL
3. REDLAM PRODUCTS ARE MANUFACTURED BY: REDBUILT, LLC.
4. EACH LVL OR LSL SHALL BE IDENTIFIED BY A STAMP INDICATING THE TYPE, ESR REPORT NUMBER, MANUFACTURER'S NAME, PLANT NUMBER, AND PFS CORPORATION LOGO AND THEIR REPORT NUMBER.

I-JOIST NOTES

1. SEE DETAIL 1 / S004 FOR I-JOIST PROPERTIES.
2. SEE DETAIL 6 / S004 FOR I-JOIST BLOCKING.
3. PROVIDE X-BRIDGING AT MIDSPAN OF ALL I-JOIST'S, SEE DETAIL 4 / S004
4. SEE DETAIL 8 / S004 FOR DOUBLE I-JOISTS. PROVIDE SPECIAL HANGER MADE FOR DOUBLE JOISTS.
5. EACH I-JOIST SHALL BE IDENTIFIED BY A STAMP INDICATING THE JOIST TYPE, ESR REPORT NUMBER, MANUFACTURER'S NAME, PLANT NUMBER, AND PFS CORPORATION LOGO AND THEIR REPORT NUMBER.

GLU-LAM BEAM NOTES

1. ALL GLU-LAM BEAMS SHALL MEET THE FOLLOWING REQUIREMENTS AND SHALL BE COMB 24F-V4 OR V8 AS NOTED ON DRAWINGS. SEE DETAIL 7 / S003 AND GLU-LAM SCHEDULE FOR OTHER INFORMATION.
   CONDITION OF USE: DRY
   SPECIES: DOUGLAS FIR
   STANDARD: ANSI / AITC A190.1, ASTM D3737, AITC 200, ASTM D905, AND TITLE 24
   Fb = 2,400 psi Fv = 265 psi Fcp = 650 psi
   E = 1,800,000 psi
   SERVICE TEMPERATURE -- LESS THAN 150° F.
2. PROVIDE POSITIVE CAMBER AT MID-SPAN AS INDICATED ON THE GLU-LAM SCHEDULE.
3. ADHESIVES MUST BE "WET-USE" ADHESIVES. "DRY-USE" ADHESIVES SHALL NOT BE USED.
4. MOISTURE CONTENT AT TIME OF GLUING SHALL NOT EXCEED 12%. THE MINIMUM MOISTURE CONTENT SHALL NOT BE LESS THAN 7%.
5. GLU-LAM BEAMS SHALL BE PROTECTED DURING SHIPPING & FIELD HANDLING IN ACCORDANCE W/ AITC 111.

GLU-LAM BEAM SCHEDULE

MARK	SIZE	CAMBER	COMB MARK
G1	5 1/8" x 25 1/2"	R=2000'	24F-V4

KEYNOTES

1. MECH UNIT ON FACTORY CURB SEE MECH DWGS & DET 14 / S004 FOR SUPPORT
2. MECH UNIT ON WOOD PLATFORM; SEE MECH DWGS & DET 15 / S004
3. CONT. ROW OF I-JOIST 'X' BRIDGING, SEE DETAIL 4 / S004
4. 1 3/4" x 14" LVL
5. 3 1/2" x 14" LVL
6. 1 3/4" x 16" LVL
7. 3 1/2" x 16" LVL
8. 3 1/2" x 20" LVL
9. 1 1/2" LSL RIM BOARD LEDGER. MATCH DEPTH OF I-JOISTS
10. CONT CS16 STRAP OVER LEDGER OR 3x4 FLAT BLKG. SEE 13 / S003
11. CONT 4x STRUT BELOW I-JOISTS. MATCH WIDTH OF WALL STUDS. SEE DETAIL 12 / S701
12. 2x8 CONT LEDGER
13. OUTLINE OF SOLAR ARRAY. SEE ARCH & ELECT DWG'S
14. AWNING PER DETAIL 17 / S702

ROOF FRAMING PLAN

1/8" = 1'-0"

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ROOF FRAMING PLAN

S301

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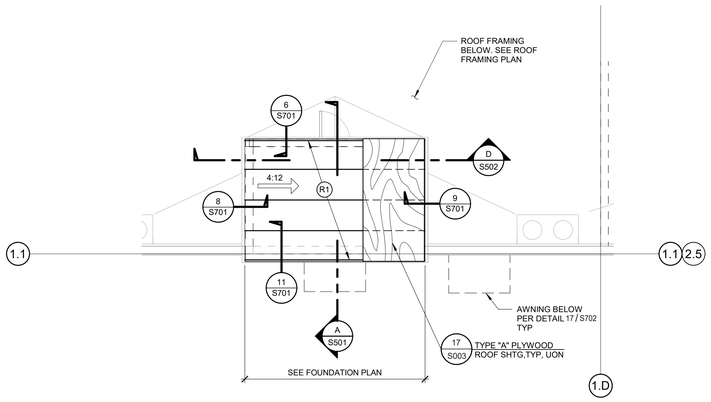
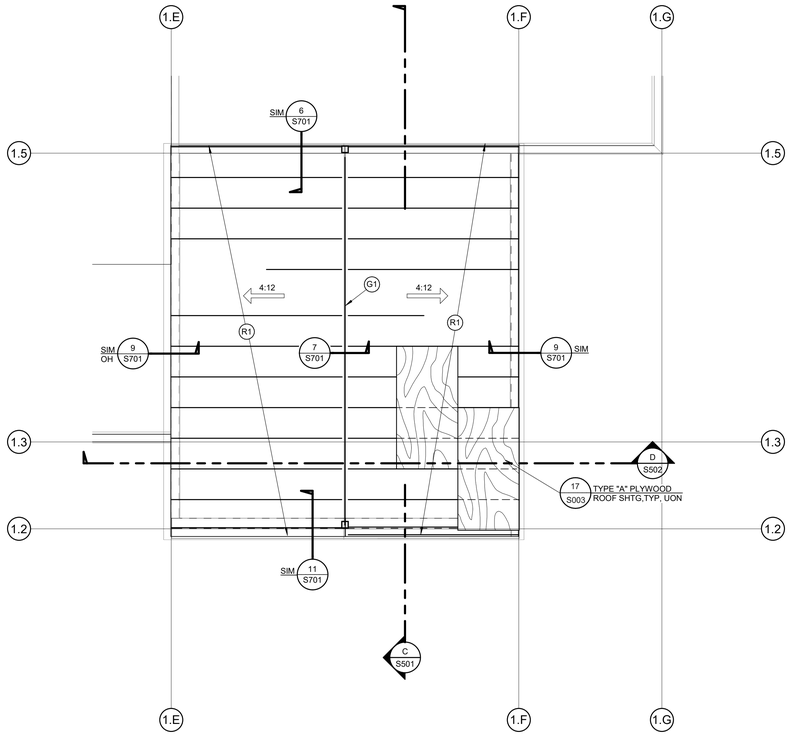


2 S302 **POP-UP ROOF FRAMING PLAN**
1/4" = 1'-0"

NORTH



1 S302 **LOBBY ROOF FRAMING PLAN**
1/4" = 1'-0"

NORTH

WOOD FRAMING NOTES

1. SEE WOOD FRAMING NOTES ON SHEET S301.

GLU-LAM BEAM NOTES

SEE SHEET S301 FOR GLU-LAM BEAM NOTES.

GLU-LAM BEAM SCHEDULE

MARK	SIZE	CAMBER	COMB MARK
G1	5 1/8" x 25 1/2"	R=2000'	24F-V4

JOIST / RAFTERS

MARK	SIZE	SPACING
R1	2x10	24"o.c.

BEAM SCHEDULE

MARK	SIZE	MARK	SIZE
B1	4x6	B6	6x6
B2	4x8	B7	6x8
B3	4x10	B8	6x10
B4	4x12	B9	6x12
B5	4x14	B10	6x14

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DATE: 04/28/2026

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REGISTERED PROFESSIONAL ENGINEER
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KERN HIGH SCHOOL DISTRICT
5801 SUNDALE AVE.
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CENTRAL VALLEY
CONTINUATION HIGH SCHOOL CAMPUS
526 MANNEL AVENUE
SHAFTER, CA 93263

DRAWING SUBMITTAL SCHEDULE

	100% CONSTRUCTION DOCUMENTS	11/21/2025
	DWG V2	02/27/2026
	DWG V3	04/28/2026

PROJECT NO:22434-E-01

FRAMING PLANS

S302

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CEILING FRAMING PLAN

1/8" = 1'-0"

CEILING FRAMING NOTES

1. SEE FRAMING NOTES ON SHEET S301 .
2. SEE GLU-LAM BEAM NOTES ON SHEET S301 .
3. COORDINATE FIXTURE LOCATIONS WITH ARCH AND ELECTRICAL DRAWINGS.
4. FOR TYPICAL CEILING FRAMING SEE DETAIL 19 / S004
5. PROVIDE 2x SOLID BLOCKING AS REQUIRED PER DETAIL 19 / S004 .
6. SEE ROOF FRAMING PLANS FOR BEAM SIZES TYPICAL UON.
7. FOR TYPICAL HEADER SIZES NOT SPECIFICALLY CALLED OUT ON PLANS SEE DETAIL 5 / S003 .

KEYNOTES

1. 2x CEILING JOISTS @ 24"o.c., UON SEE DETAIL 19 / S004
2. CEILING ACCESS OPENING. SEE ARCH DWG'S FOR SIZE & LOCATION, TYPICAL. FRAME PER DETAIL 18 / S004

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DRAWING SUBMITTAL SCHEDULE

100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO:22434-E-01

CEILING FRAMING PLAN

S401

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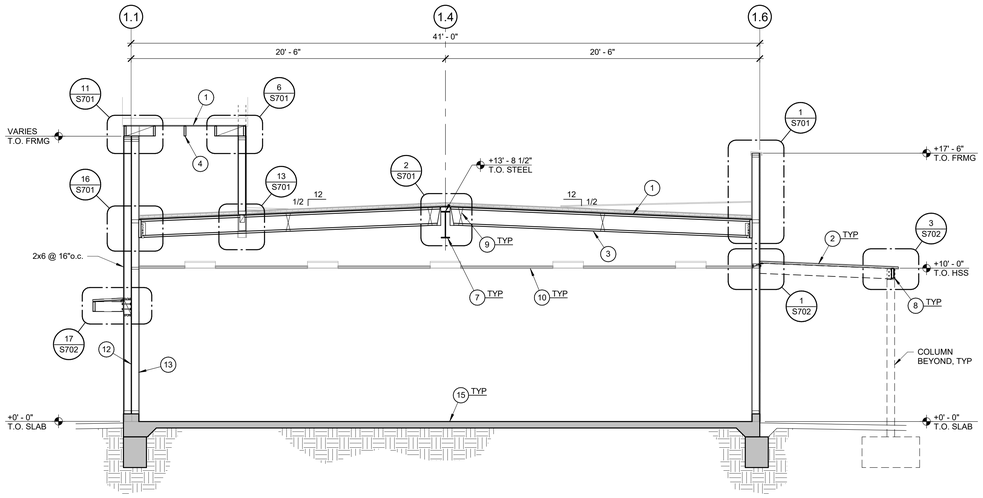
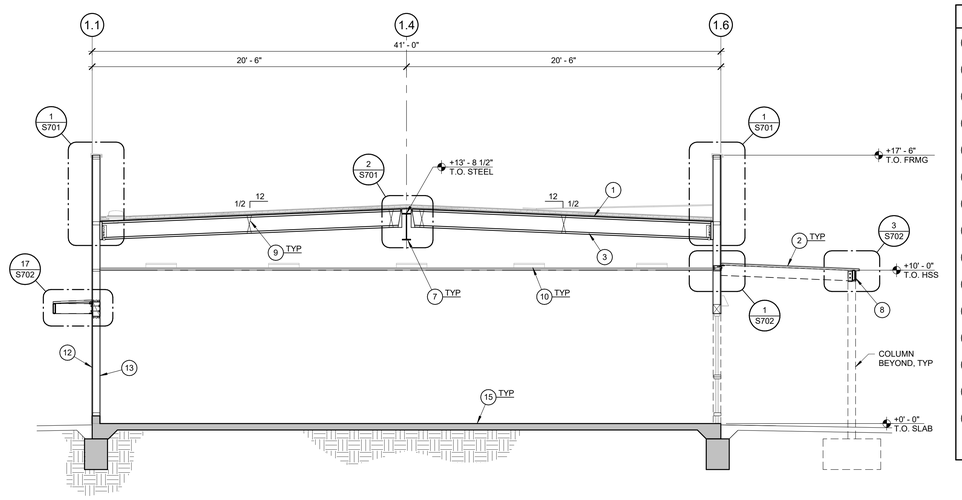


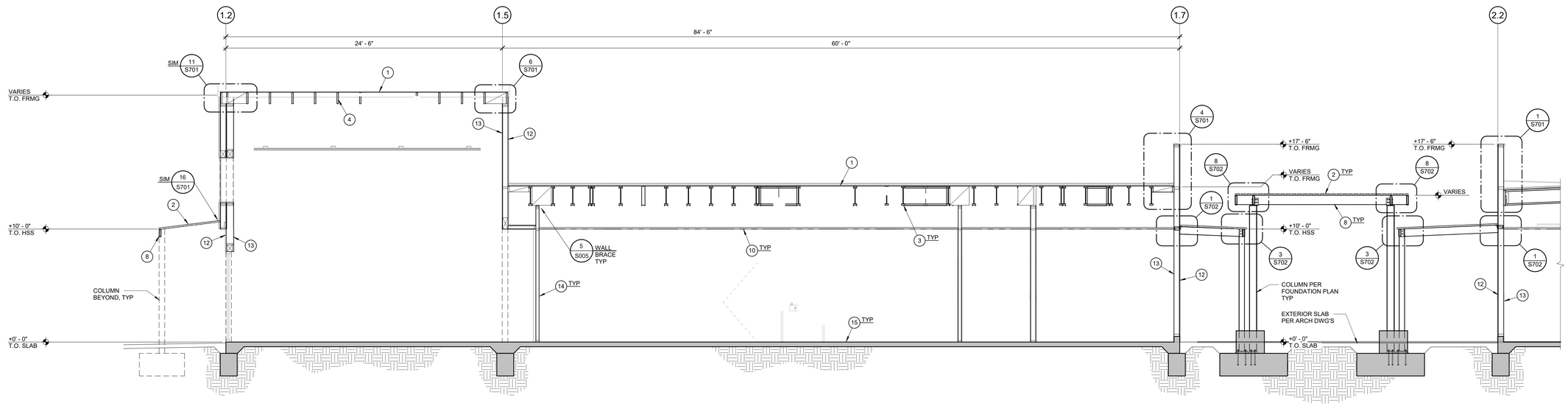
A S501 **SECTION**
1/4" = 1'-0"



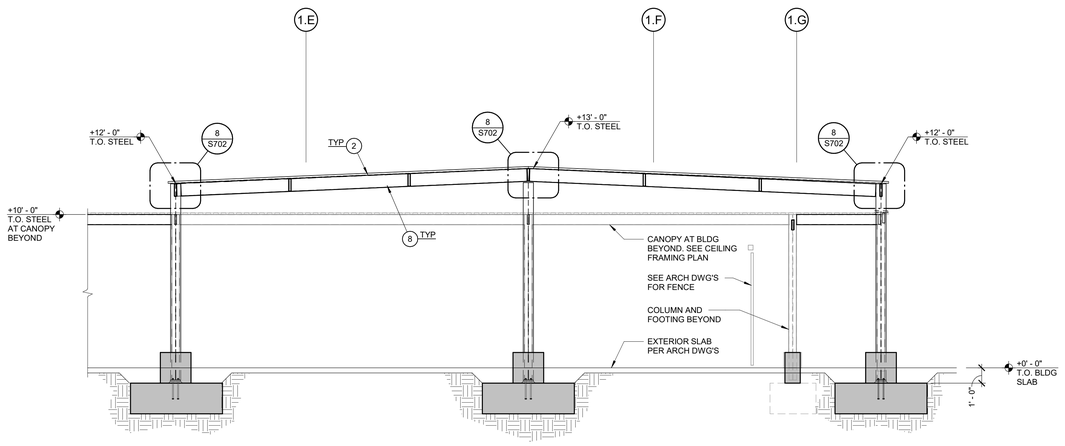
B S501 **SECTION**
1/4" = 1'-0"

KEYNOTES

1. PLYWOOD SHEATHING PER FRAMING PLAN.
2. METAL CANOPY DECK PER FRAMING PLAN
3. I-JOISTS @ 24 o.c. PER FRAMING PLANS
4. 2x JOISTS @ 24 o.c. PER FRAMING PLANS
5. GLU-LAM BEAM PER FRAMING PLANS
6. LVL BEAM PER FRAMING PLANS
7. WF BEAM PER FRAMING PLANS
8. HSS BEAM PER FRAMING PLANS
9. X-BRIDGING PER FRAMING PLAN & DET 4/S004
10. SUSPENDED CEILING, SEE ARCH. DWG'S
11. CEILING FRAMING PER PLAN, SEE SEE DETAIL 19/S004
12. PLYWOOD WALL SHEATHING PER WALL ELEVATIONS
13. STUDS @ 16" o.c. PER WALL ELEVATION
14. STUDS @ 16" o.c. PER ARCH DWGS
15. CONC. SLAB ON GRADE PER 2/S101



C S501 **SECTION**
1/4" = 1'-0"



F S501 **SECTION**
1/4" = 1'-0"

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SHAFTER, CA 93263

DRAWING SUBMITTAL SCHEDULE

	100% CONSTRUCTION DOCUMENTS	11/21/2025
	DWG V2	02/27/2026
	DWG V3	04/28/2026

PROJECT NO:22434-E-01

BLDG 100 SECTIONS

S501

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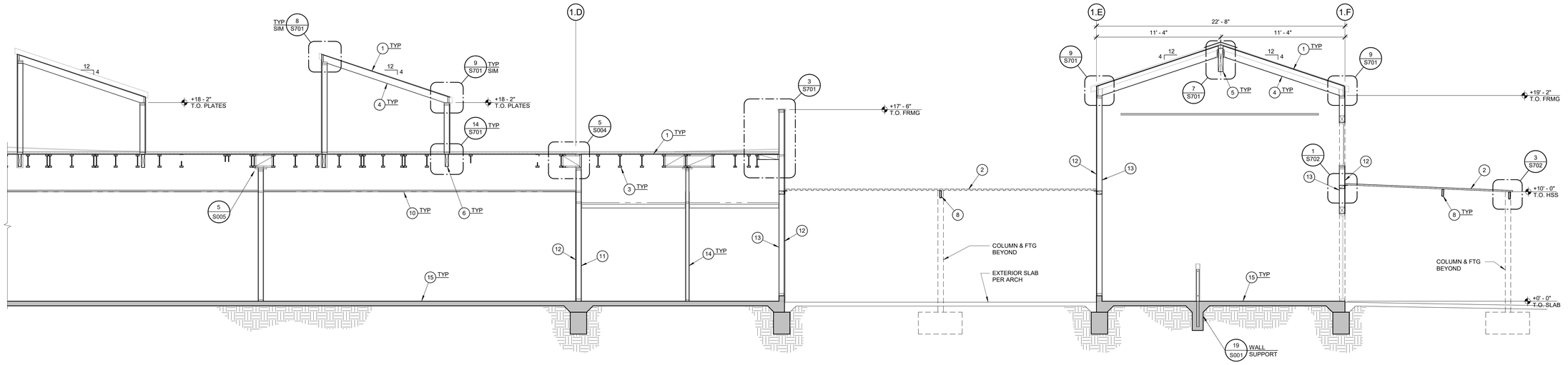

D. S502 **SECTION**
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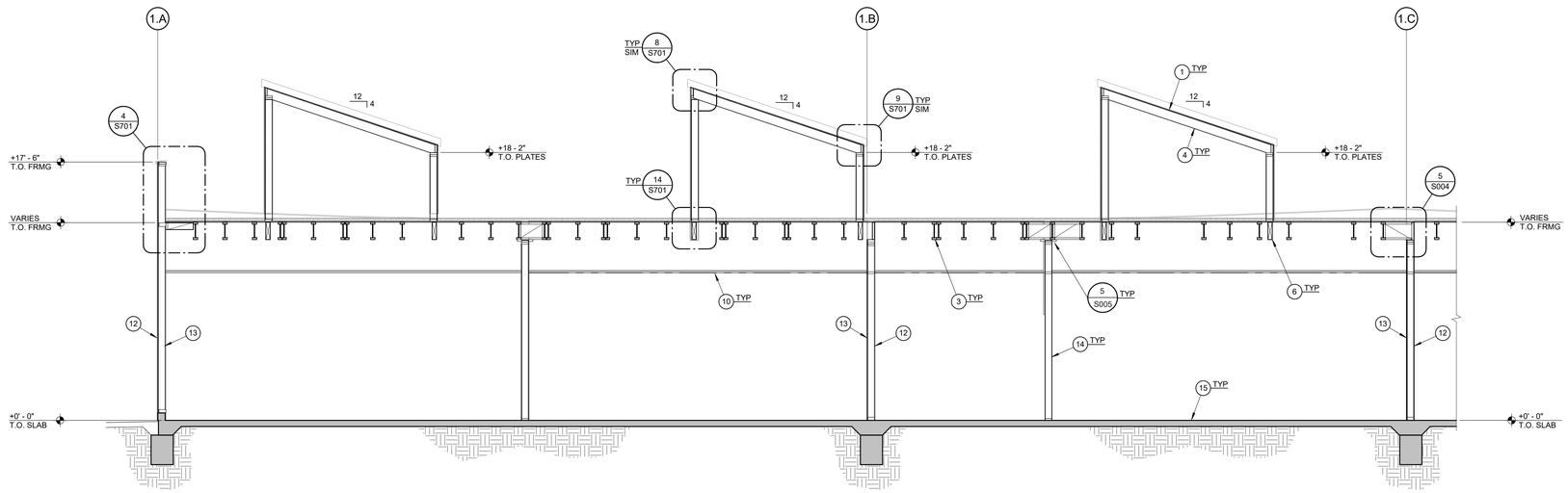

D. S502 **SECTION CONTINUED**
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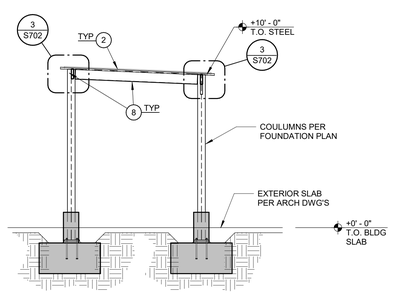

F. S502 **SECTION**
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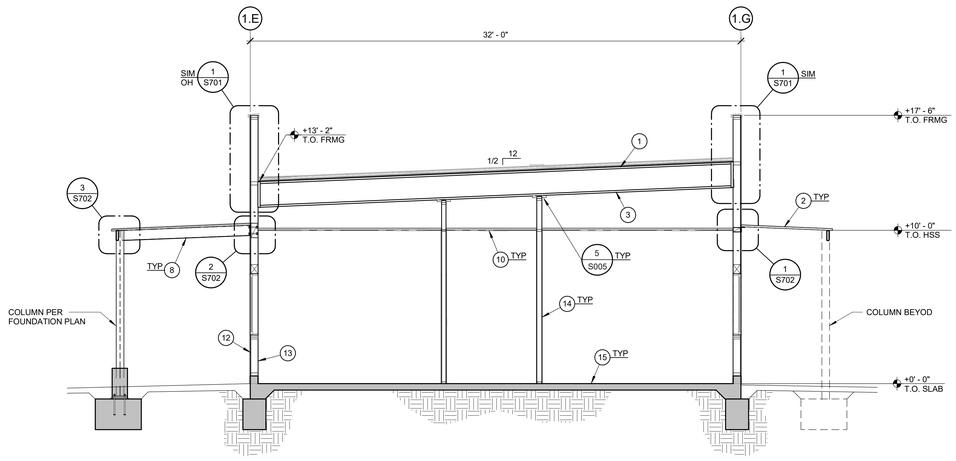

E. S502 **SECTION**
1/4" = 1'-0"

KEYNOTES

1. PLYWOOD SHEATHING PER FRAMING PLAN.
2. METAL CANOPY DECK PER FRAMING PLAN
3. I-JOISTS @ 24 o.c. PER FRAMING PLANS
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15. CONC. SLAB ON GRADE PER 2 / S101

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DRAWING SUBMITTAL SCHEDULE

100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO:22434-E-01

BLDG 100 SECTIONS

S502

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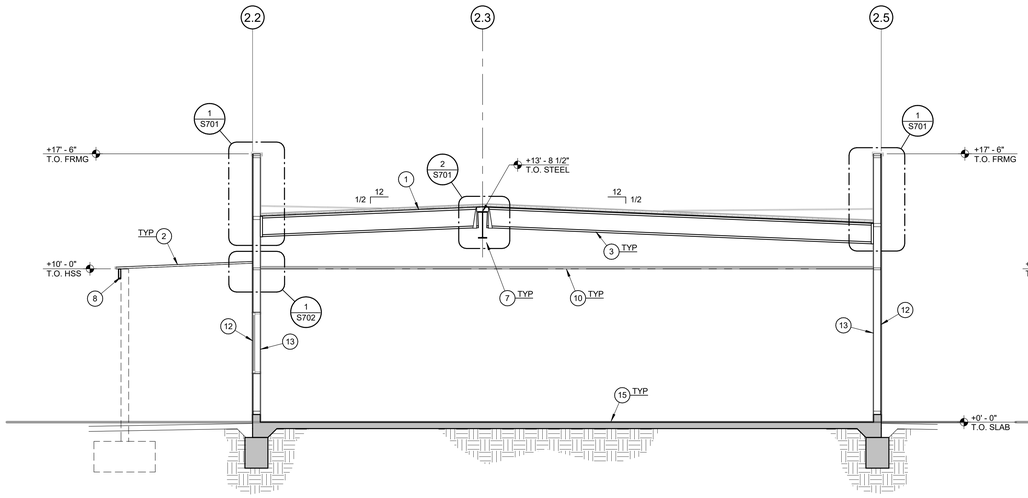
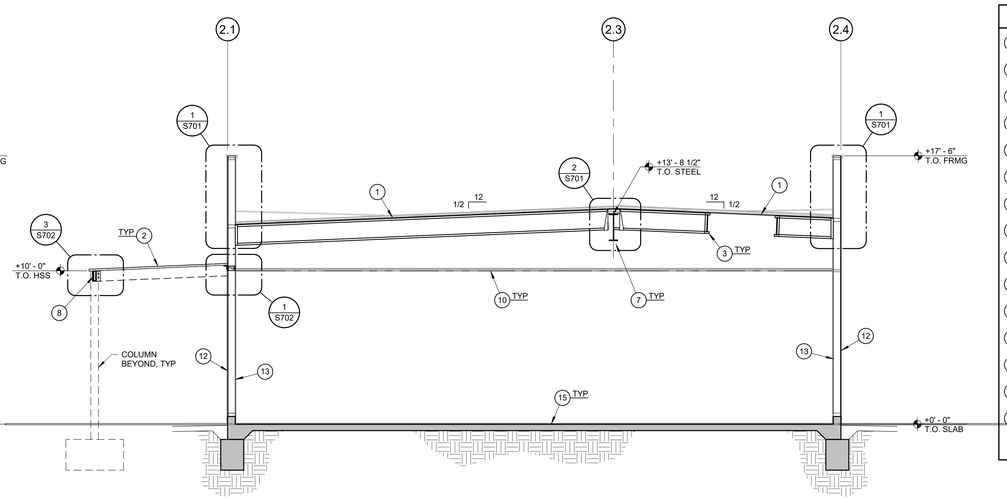


G S503 **SECTION**
1/4" = 1'-0"



F S503 **SECTION**
1/4" = 1'-0"

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DRAWING SUBMITTAL SCHEDULE

	100% CONSTRUCTION DOCUMENTS	11/21/2025
	DWG V2	02/27/2026
	DWG V3	04/28/2026

PROJECT NO:22434-E-01

BLDG 200 SECTIONS

S503

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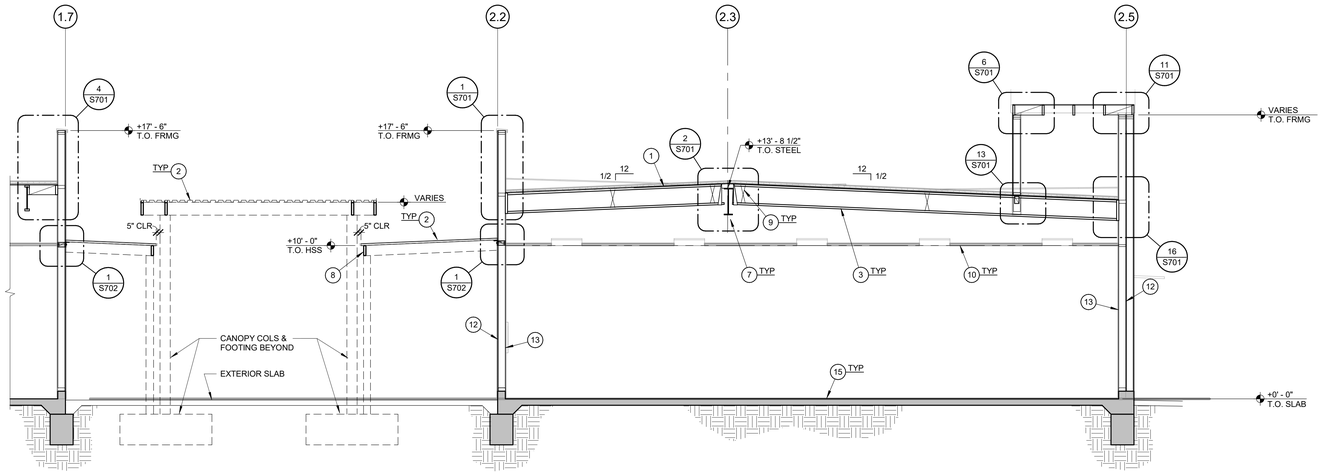

H S504 **SECTION**
1/4" = 1'-0"

J S504 **SECTION**
1/4" = 1'-0"

KEYNOTES

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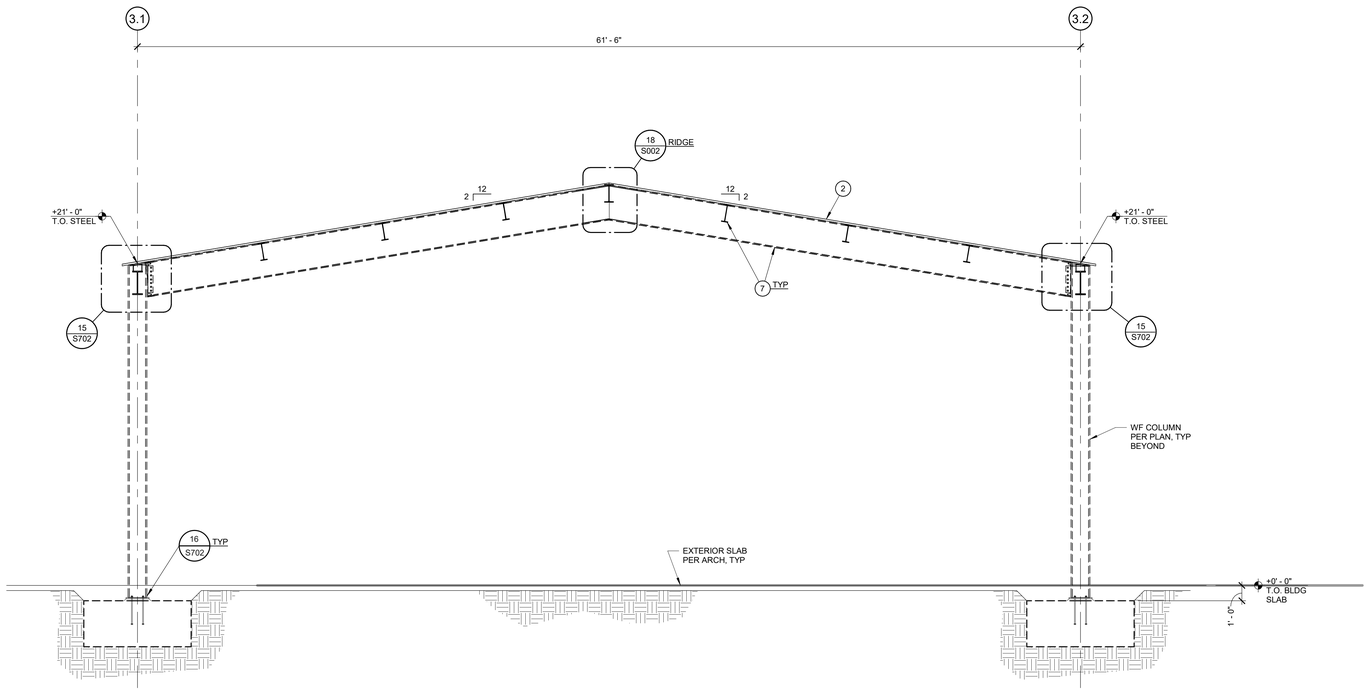
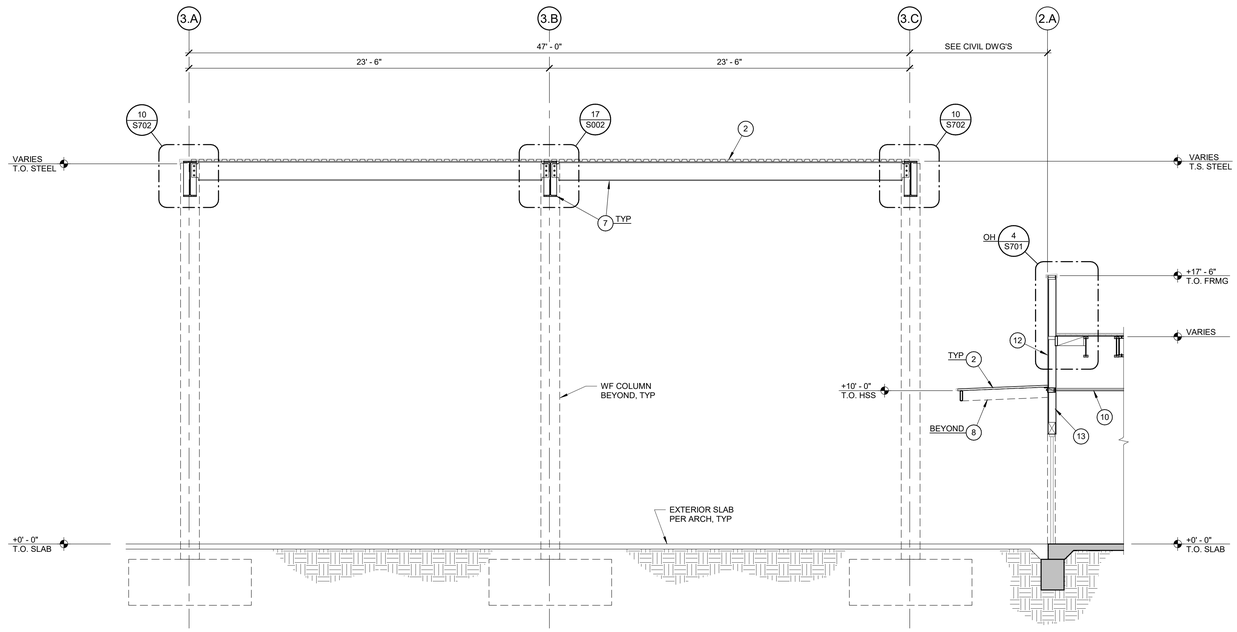


L S505 **SECTION**
1/4" = 1'-0"



K S505 **SECTION**
1/4" = 1'-0"

KEYNOTES

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DRAWING SUBMITTAL SCHEDULE

100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO:22434-E-01

BLDG 300
SECTIONS

S505

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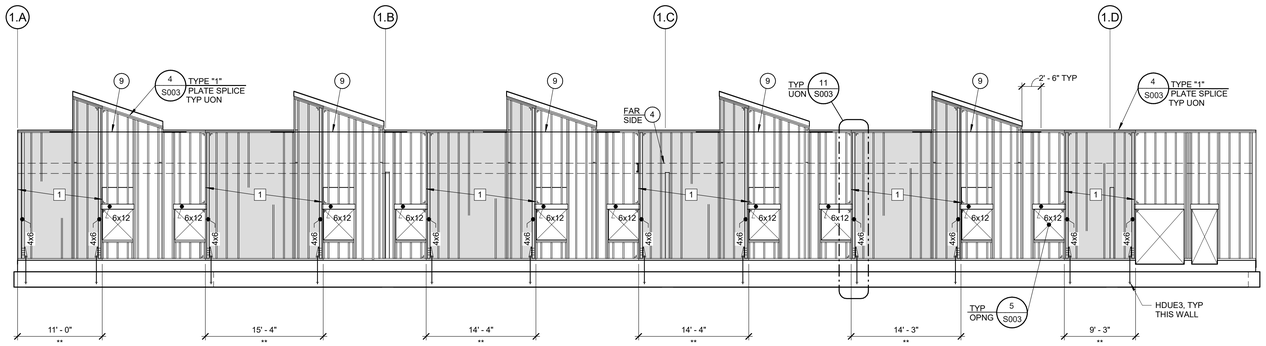
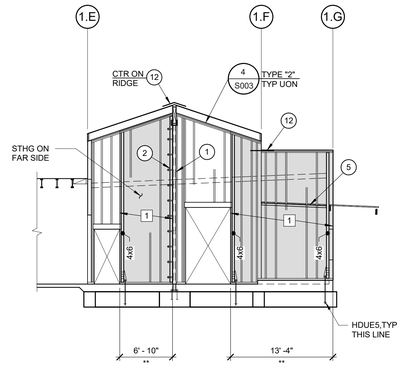


WALL LINE 1.1

1/8" = 1'-0"

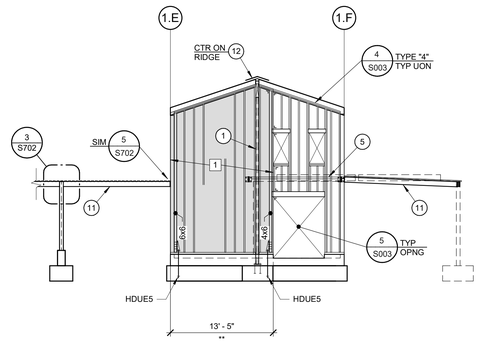
2x6 @ 16"o.c., UON



WALL LINE 1.5

1/8" = 1'-0"

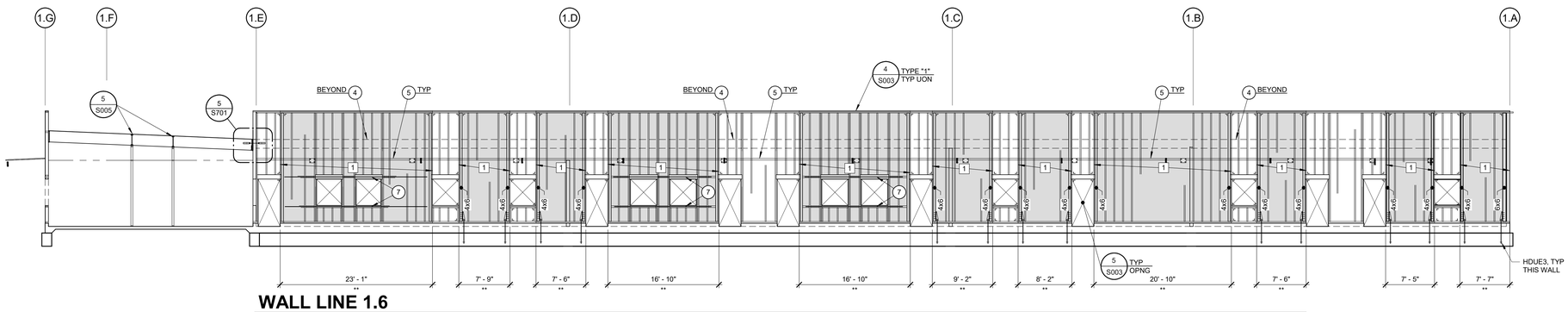
2x6 @ 16"o.c. UON



WALL LINE 1.2

1/8" = 1'-0"

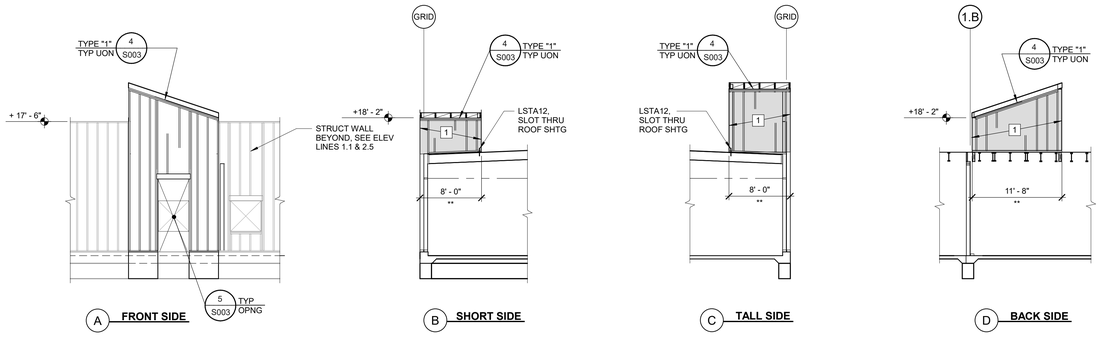
2x8 @ 16"o.c.



WALL LINE 1.6

1/8" = 1'-0"

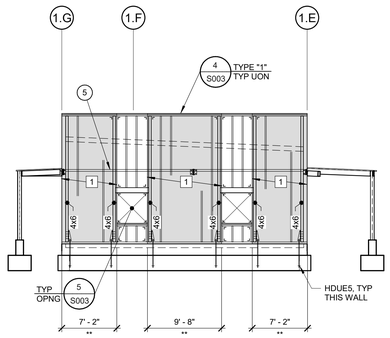
2x6 @ 16"o.c. UON



POP UP ROOF

1/8" = 1'-0"

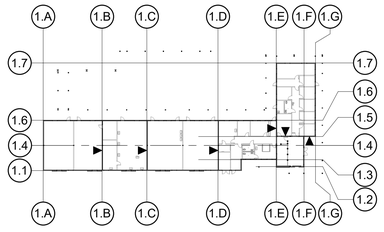
2x6 @ 16"o.c. UON



WALL LINE 1.7

1/8" = 1'-0"

2x6 @ 16"o.c. UON



KEYPLAN

N.T.S.

◄ INDICATES FACE TO RECEIVE SHEAR WALL PLYWOOD AT INTERIOR WALLS. ALL EXTERIOR WALLS HAVE PLYWOOD ON THE OUTSIDE FACE UNLESS OTHERWISE NOTED.

SHEAR WALL NOTES

1. SHADED AREAS ON WALLS INDICATE REGIONS OF STRUCTURAL SHEAR PANELS. OTHER REGIONS ON WALL SHALL HAVE THE SAME SHEATHING WITH NAILS AT 6"o.c. AT EDGES AND 12"o.c. FIELD.
2. PROVIDE PLYWOOD ON ALL EXTERIOR SURFACES OF FASCIAS AND EXTERIOR WALLS NOTE #1 "OTHER REGIONS", EVEN IF WALL ELEVATIONS ARE NOT DRAWN.
3. (EN) "EDGE NAILING" SPACE NAILS AS REQUIRED FOR SHEAR PANEL EDGES EVEN IF NOT AT AN EDGE.
4. (#) - INDICATES SHEATHING TYPE AND ANCHOR BOLT SPACING PER SCHEDULE ON DETAIL 14 / S003.
5. SILL PLATE BOLTS AT NON-SHEAR REGIONS OF WALLS SHALL BE 5/8" DIA SPACED AT 48"o.c. MAXIMUM. SEE 20 / S001 FOR EMBED.
6. STUDS OR POSTS AT EDGES OF SHEAR PANELS AND AT HOLD DOWNS SHALL BE ONE PIECE FULL HEIGHT OF WALL AND SHALL RECEIVE EDGE NAILING FULL HEIGHT.
7. PROVIDE EDGE NAILING TO EACH TOP PLATE OF WALL. SEE DETAIL 2 / S003 FOR SCHEDULE OF PLATE SPLICES.
8. ALL MEMBERS DESIGNATED AS "STRUTS" SHALL RECEIVE EN FOR THEIR ENTIRE LENGTH.
9. SEE DETAIL 15 / S003 FOR HOLD DOWNS, UNLESS OTHERWISE NOTED.
10. FRAME WALLS AND OPENINGS PER 5 / S003 UNLESS OTHERWISE NOTED.
11. FRAME ALL HOLES THRU SHEAR WALLS PER DETAILS 22 / S004 & 23 / S004 UNLESS OTHERWISE NOTED.
12. PROVIDE SOLID CONTINUOUS BLOCKING AT 48"o.c. AT ALL WALL REGIONS WHICH DO NOT HAVE PLYWOOD OR GYP BOARD ON AT LEAST ONE SIDE.
13. STUD SIZES INDICATED ON THE WALL ELEVATIONS ARE FOR THE TYPICAL STUDS. REFER TO THE SHEATHING PANEL SCHEDULE ON THE TYPICAL SHEAR WALL DETAIL FOR REGIONS REQUIRING 3x STUDS AND BLOCKING AT PANEL JOINTS.

XX' - XX" ** = INDICATES DIMENSION IS MINIMUM SHEAR WALL DIMENSION. SEE ARCHITECTURAL PLANS, FOUNDATION PLANS, AND APPLICABLE DETAILS FOR ACTUAL DIMENSIONS

KEYNOTES

1. HSS COL, SEE FDN PLAN
2. 4x TRIM STUD, SEE DET 9 / S003
3. STITCH POST W/ 5/8"Ø BOLTS PER DETAIL 12 / S003
4. LEDGER: SPLICE OVER STUD PER DETAIL 11 / S004
5. CONT BENT PLATE FOR CANOPY SUPPORT. SEE DETAIL 1 / S702
6. MSTI36 CTR ON RIDGE
7. CONT CS14 STRAP
8. MST37 STRAP EACH SIDE
9. CONT CMSTC16 STRAP
10. CONT 4x6 STRUT BELOW JOISTS PER DETAIL 12 / S701
11. CANOPY FRMG PER CLG FRAMING PLAN
12. LSTA36
13. AWNING PER DETAIL 17 / S702
14. CONT LVL OVER WALL PER DETAIL 5 / S004

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4924 # 5/30/26

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5801 SUNDALE AVE.
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CENTRAL VALLEY
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DRAWING SUBMITTAL SCHEDULE

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DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO:22434-E-01

BLDG 100 ELEVATIONS

S601

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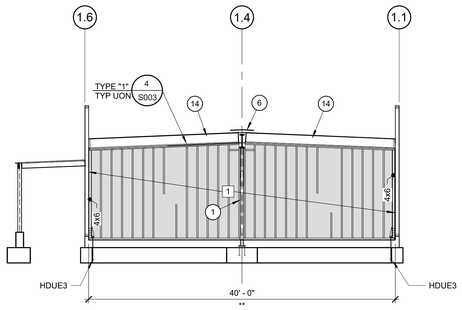
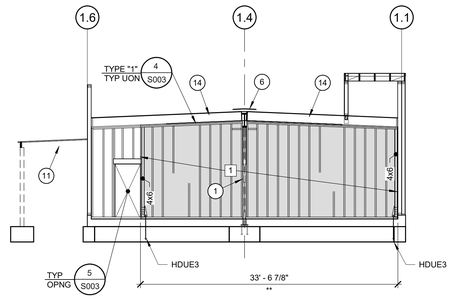


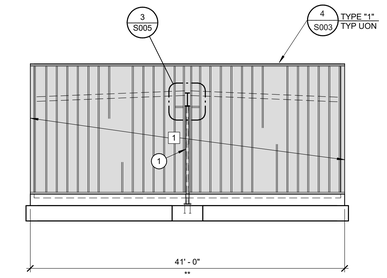
WALL LINE 1.C (1.D SIM)

1/8" = 1'-0" 2x6 STUDS @ 16"o.c.



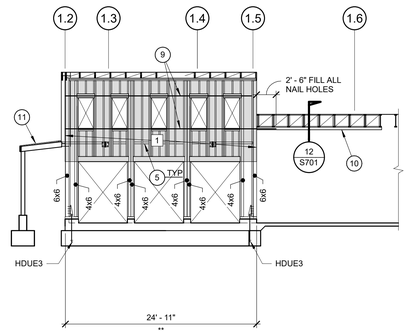
WALL LINE 1.B

1/8" = 1'-0" 2x6 STUDS @ 16"o.c.



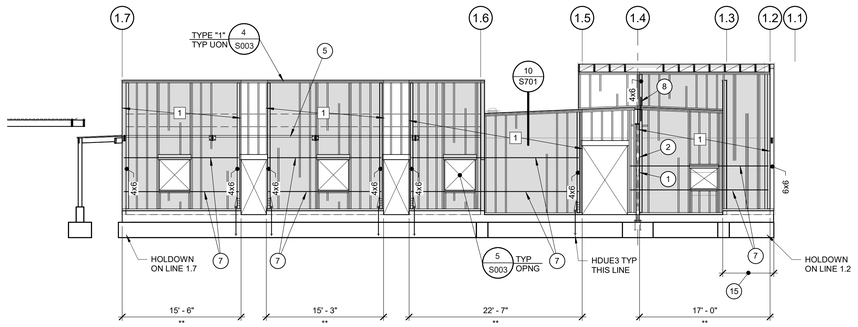
WALL LINE 1.A

1/8" = 1'-0" 2x6 STUDS @ 16"o.c.



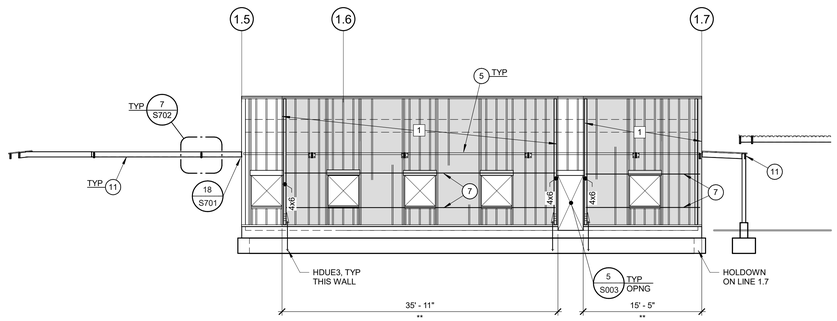
WALL LINE 1.F

1/8" = 1'-0" 2x6 STUDS @ 16"o.c.



WALL LINE 1.E

1/8" = 1'-0" 2x6 STUDS @ 16"o.c.



WALL LINE 1.G

1/8" = 1'-0" 2x6 STUDS @ 16"o.c.

SHEARWALL NOTES

1. SEE SHEARWALL NOTES ON SHEET S601.

XX' - XX" ** = INDICATES DIMENSION IS MINIMUM SHEAR WALL DIMENSION. SEE ARCHITECTURAL PLANS, FOUNDATION PLANS, AND APPLICABLE DETAILS FOR ACTUAL DIMENSIONS

KEYNOTES

1. HSS COL, SEE FDN PLAN
2. 4x TRIM STUD, SEE DETAIL 9 / S003
3. STITCH POST W/ 5/8"Ø BOLTS PER DETAIL 12 / S003
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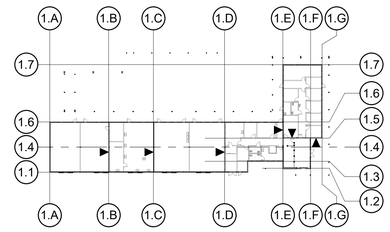
5. CONT BENT PLATE FOR CANOPY SUPPORT. SEE DETAIL 1 / S702
6. MSTI36 CTR ON RIDGE
7. CONT CS14 STRAP
8. MST37 STRAP EACH SIDE
9. CONT CMSTC16 STRAP
10. CONT 4x6 STRUT BELOW JOISTS PER DETAIL 12 / S701
11. CANOPY FRMG PER CLG FRAMING PLAN
12. LSTA36
13. AWNING PER DETAIL 17 / S702
14. CONT LVL OVER WALL PER DETAIL 5 / S004
15. DBL 2x6 STUDS @ 16"o.c.
16. MSTA49 (CTR) ON BEAM



KEYPLAN

1" = 50'-0"

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DWG V3	04/28/2026

PROJECT NO:22434-E-01

BLDG 100 ELEVATIONS

S602

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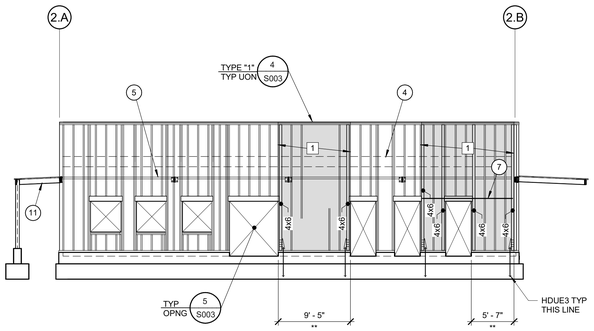
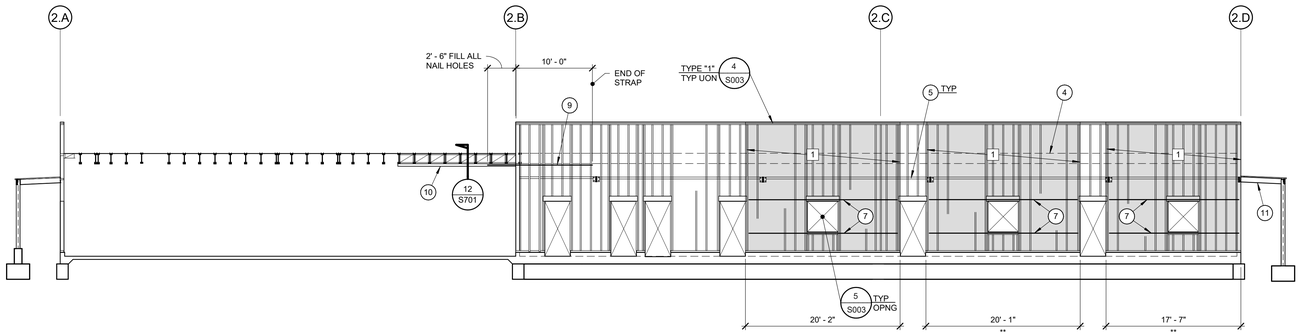


WALL LINE 2.1

1/8" = 1'-0"

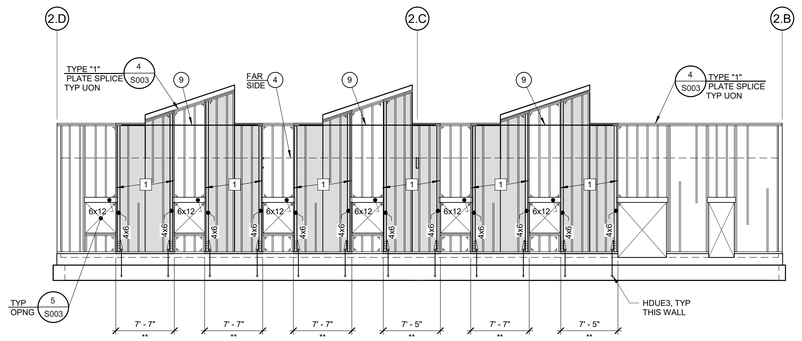
2x6 @ 16"o.c. UON



WALL LINE 2.2

1/8" = 1'-0"

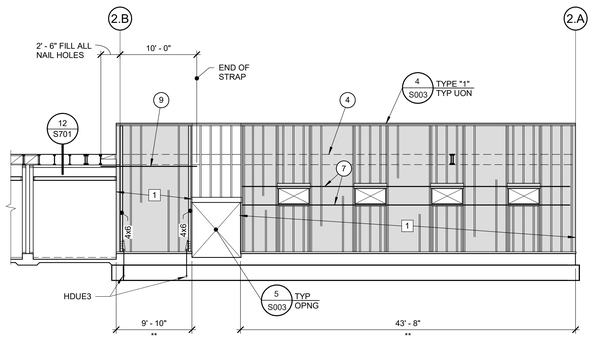
2x6 @ 16"o.c. UON



WALL LINE 2.5

1/8" = 1'-0"

2x6 @ 16"o.c. UON



WALL LINE 2.4

1/8" = 1'-0"

2x6 @ 16"o.c. UON

SHEARWALL NOTES

1. SEE SHEARWALL NOTES ON SHEET S601.

XX' - XX" ** = INDICATES DIMENSION IS MINIMUM SHEAR WALL DIMENSION. SEE ARCHITECTURAL PLANS, FOUNDATION PLANS, AND APPLICABLE DETAILS FOR ACTUAL DIMENSIONS

KEYNOTES

1. HSS COL, SEE FDN PLAN
2. 4x TRIM STUD, SEE DETAIL 9 / S003
3. STITCH POST W/ 5/8"Ø BOLTS PER DETAIL 12 / S003
4. LEDGER: SPLICE OVER STUD PER DETAIL 11 / S004
5. CONT BENT PLATE FOR CANOPY SUPPORT. SEE DETAIL 1 / S702
6. MSTI36 CTR ON RIDGE
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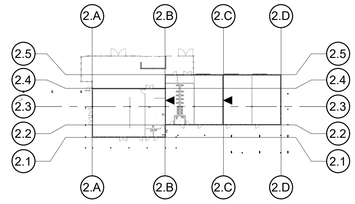
13. AWNING PER DETAIL 17 / S702
14. CONT LVL OVER WALL PER DETAIL 5 / S004
15. DBL 2x6 STUDS @ 16"o.c.
16. MSTA49 (CTR) ON BEAM



KEYPLAN

N.T.S.

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CENTRAL VALLEY
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DWG V3	04/28/2026

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BLDG 200 ELEVATIONS

S603

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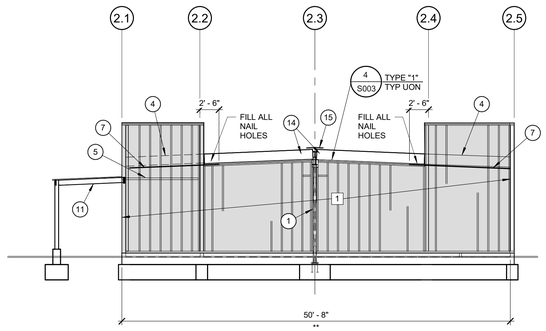
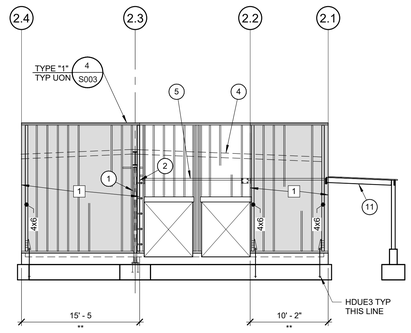


WALL LINE 2.B

1/8" = 1'-0"

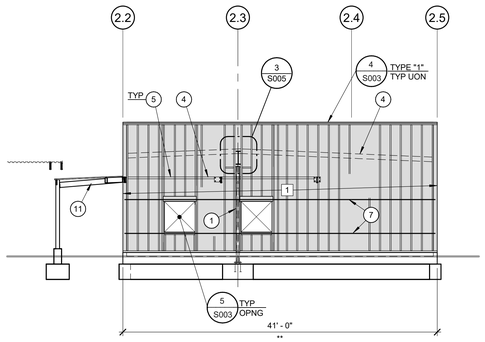
2x6 @ 16"o.c. UON



WALL LINE 2.A

1/8" = 1'-0"

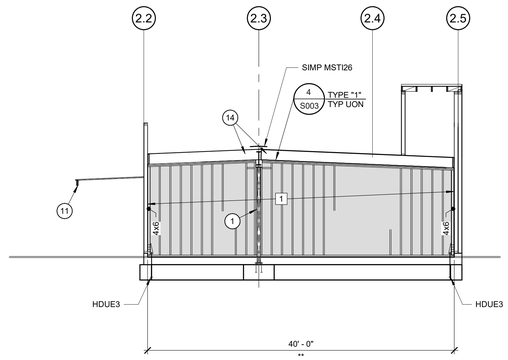
2x6 @ 16"o.c. UON



WALL LINE 2.D

1/8" = 1'-0"

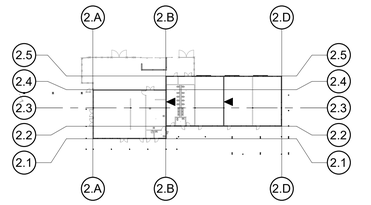
2x6 @ 16"o.c. UON



WALL LINE 2.C

1/8" = 1'-0"

2x6 @ 16"o.c. UON



KEYPLAN

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SHEARWALL NOTES

1. SEE SHEARWALL NOTES ON SHEET S601.

XX' - XX"
**

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KEYNOTES

1. HSS COL, SEE FDN PLAN
2. 4x TRIM STUD, SEE DETAIL 9 / S003
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12. LSTA36
13. AWNING PER DETAIL 17 / S702
14. CONT LVL OVER WALL PER DETAIL 5 / S004
15. DBL 2x6 STUDS @ 16"o.c.
16. MSTA49 (CTR) ON BEAM

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DRAWING SUBMITTAL SCHEDULE

	100% CONSTRUCTION DOCUMENTS	11/21/2025
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	DWG V3	04/28/2026

PROJECT NO:22434-E-01

BLDG 200 ELEVATIONS

S604

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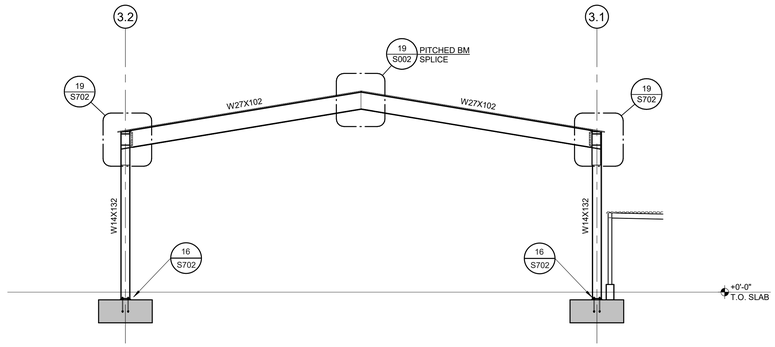
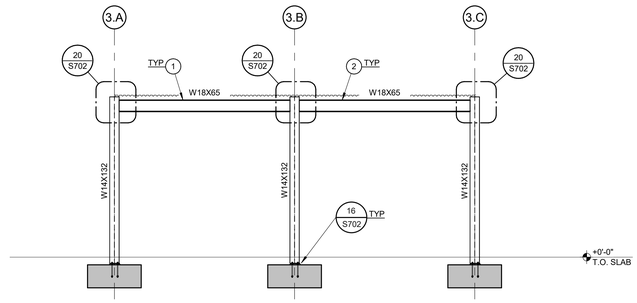


FRAME LINE 3.A (LINES 3.B & 3.C SIM)

1/8" = 1'-0"

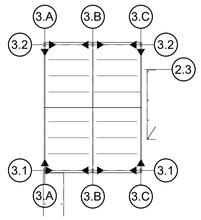


FRAME LINE 3.1 (LINE 3.2 SIM)

1/8" = 1'-0"

KEYNOTES

1. METAL ROOF DECK PER FRAMING PLAN
2. BENT PLATE OVER BEAM PER DETAIL 15 / S702



KEYPLAN

N.T.S.

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ASDI # 5040

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ELEVATIONS

S605

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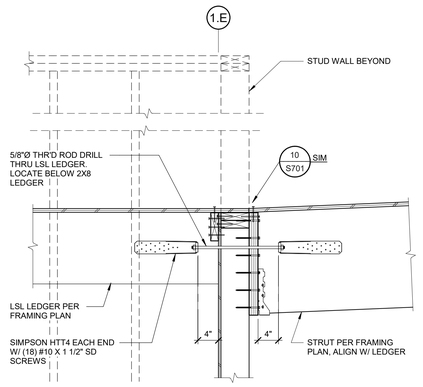
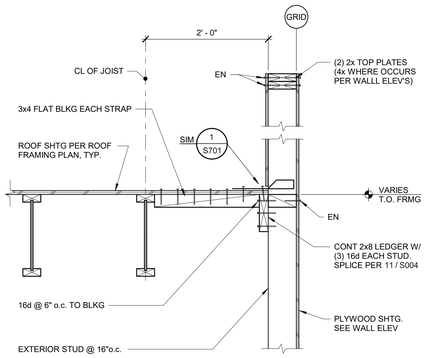
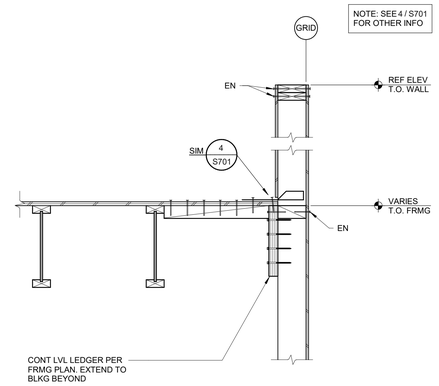


5 S701 **DETAIL**
1" = 1'-0"



4 S701 **END WALL DETAIL AT I-JOISTS**
1" = 1'-0"



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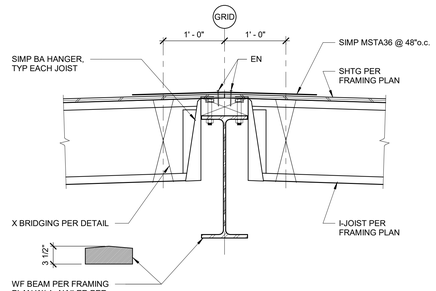
1" = 1'-0"



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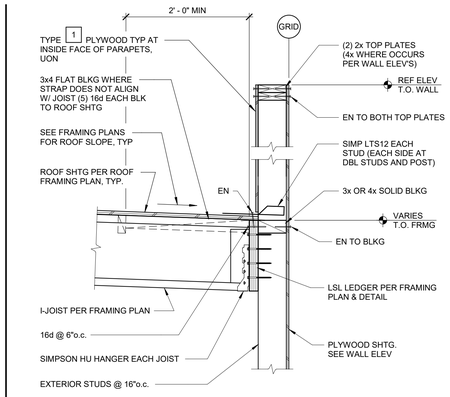
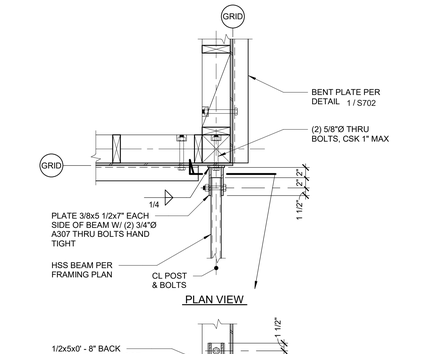
1" = 1'-0"



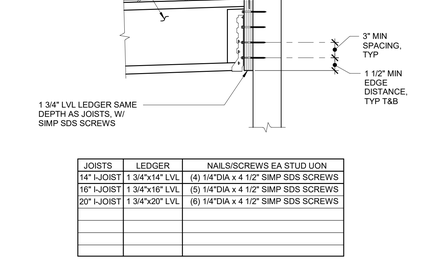
1 S701 **LEGDER DETAIL**
1" = 1'-0"

10 S701 **DETAIL**
1" = 1'-0"

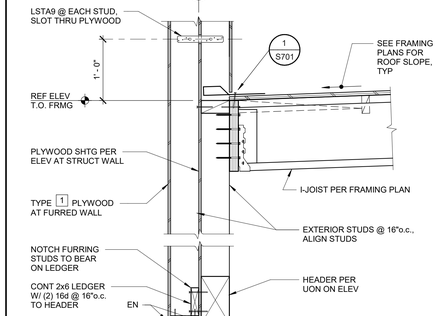
9 S701 **DETAIL**
1" = 1'-0"



8 S701 **DETAIL**
1" = 1'-0"



7 S701 **DETAIL**
1" = 1'-0"



6 S701 **DETAIL**
1" = 1'-0"

15 S701 **DETAIL**
1" = 1'-0"

14 S701 **DETAIL**
1" = 1'-0"

13 S701 **DETAIL**
1" = 1'-0"

12 S701 **DETAIL**
1" = 1'-0"

11 S701 **DETAIL**
1" = 1'-0"

18 S701 **DETAIL**
1" = 1'-0"

JOISTS	LEDGER	NAILS/SCREWS EA STUD UON
14" I-JOIST	1 3/4"x14" LVL	(4) 1/4"DIA x 4 1/2" SIMP SDS SCREWS
16" I-JOIST	1 3/4"x16" LVL	(5) 1/4"DIA x 4 1/2" SIMP SDS SCREWS
20" I-JOIST	1 3/4"x20" LVL	(6) 1/4"DIA x 4 1/2" SIMP SDS SCREWS

NOTES:
1. IF SPLITTING OCCURS, REPLACE MEMBER AND PRE-DRILL HOLES.

17 S701 **LEDGER DETAIL**
1" = 1'-0"

16 S701 **DETAIL**
1" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125726 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/28/2026

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ASDI # 5/04/92

REGISTERED PROFESSIONAL ENGINEER
MARK T. BOZZO III
No. S5037
Exp. 6-30-26
STRUCTURAL
STATE OF CALIFORNIA

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KERN HIGH SCHOOL DISTRICT
5801 SUNDALE AVE.
BAKERSFIELD, CA 93309

CENTRAL VALLEY
CONTINUATION HIGH SCHOOL CAMPUS
526 MANNEL AVENUE
SHAFTER, CA 93263

DRAWING SUBMITTAL SCHEDULE	
100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO:22434-E-01

FRAMING DETAILS

S701

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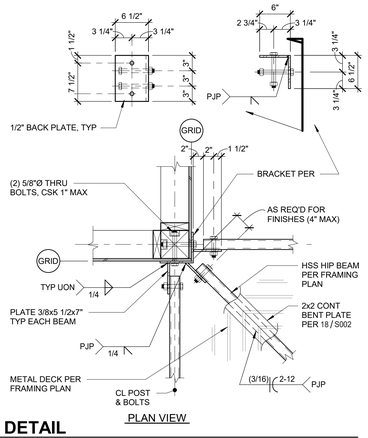
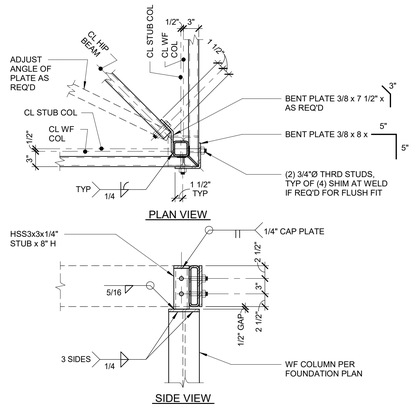
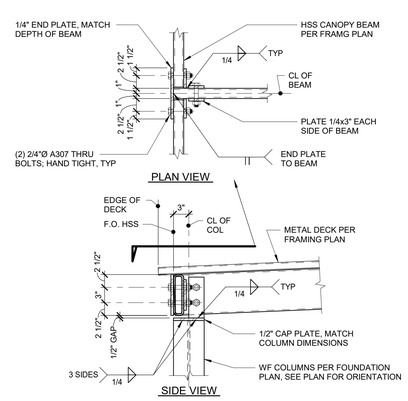


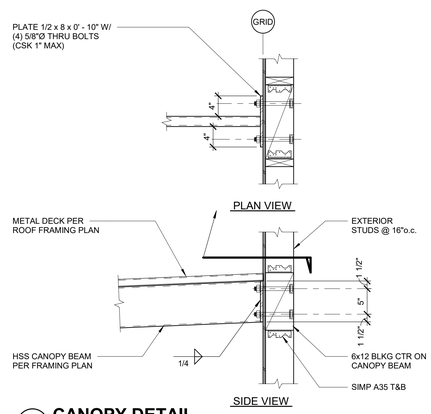
5 S702 **DETAIL**
1" = 1'-0"



4 S702 **CANOPY DETAIL**
1" = 1'-0"



3 S702 **TYP CANOPY BEAM**
1" = 1'-0"



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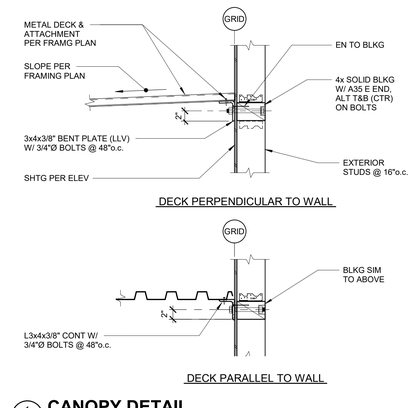
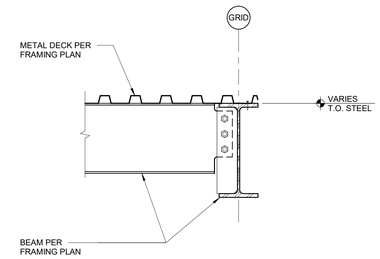
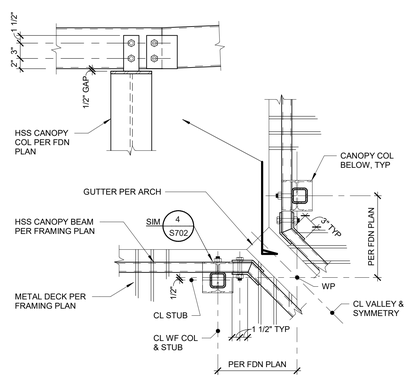
1" = 1'-0"



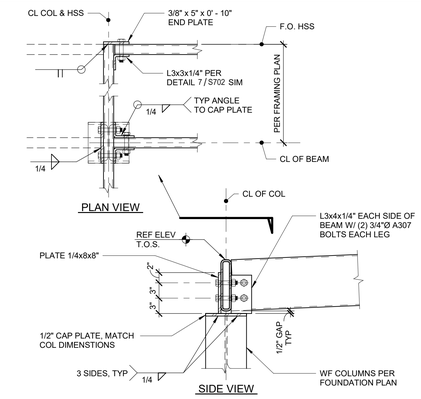
1 S702 **CANOPY DETAIL**
1" = 1'-0"



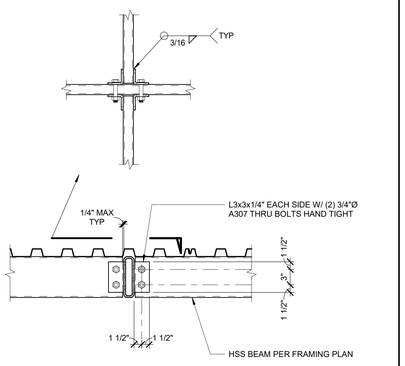
10 S702 **DETAIL**
1" = 1'-0"



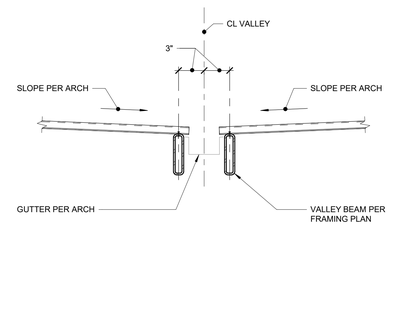
9 S702 **DETAIL**
1" = 1'-0"



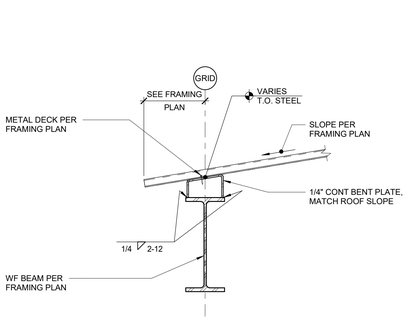
8 S702 **DETAIL**
1" = 1'-0"



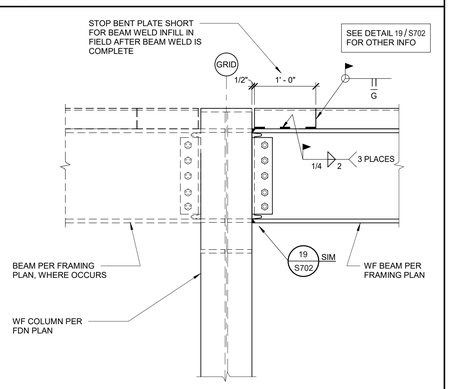
7 S702 **DETAIL**
1" = 1'-0"



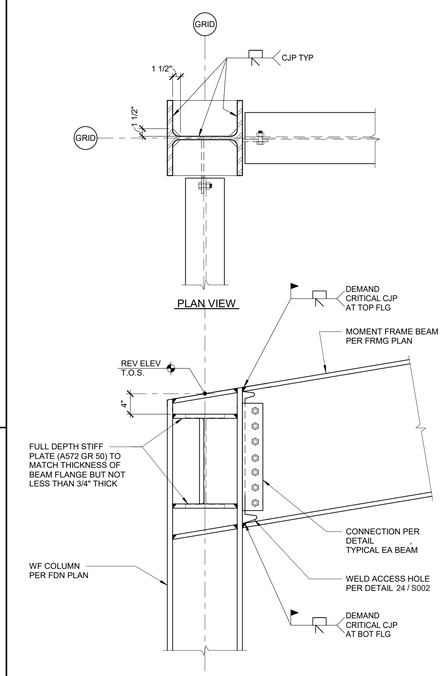
6 S702 **DETAIL**
1" = 1'-0"



15 S702 **DETAIL**
1" = 1'-0"



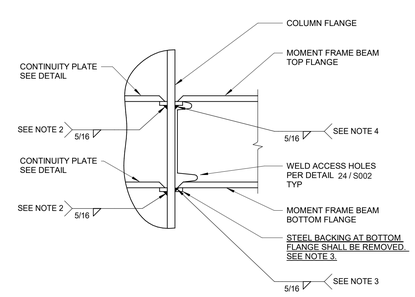
20 S702 **DETAIL**
1" = 1'-0"



NOTES:

1. WELDING REQUIREMENTS:
   a. WHERE WELDS ARE DESIGNATED AS "***DEMAND CRITICAL***", THEY SHALL BE MADE WITH FILLER METALS MEETING THE REQUIREMENTS SPECIFIED IN AWS D1.8, CLAUSE 6.3.
   b. WELDS AND WELDING INSPECTION SHALL CONFORM TO AWS AND AISC 341-10 SECTION J6.
2. QUALITY ASSURANCE: QUALITY CONTROL (QC) AND QUALITY ASSURANCE (QA) SHALL BE PROVIDED IN ACCORDANCE WITH AISC 341-16 CHAPTER J.
3. SEE DETAIL 18 / S702 FOR INFORMATION REGARDING BACKING AT CJP WELDS.

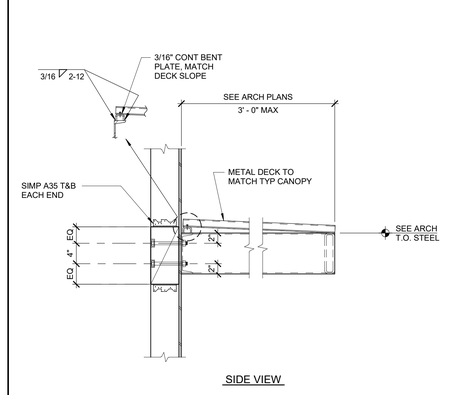
19 S702 **MOMENT FRAME CONNECTION DETAIL**
1" = 1'-0"



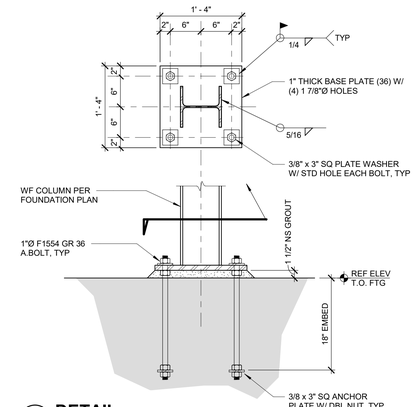
NOTES:

1. APPLICABILITY: THIS DETAIL APPLIES AT THE BACKING AT MOMENT FRAME BEAM TO COLUMN AND CONTINUITY PLATE TO COLUMN JOINTS.
2. STEEL BACKING AT CONTINUITY PLATES: STEEL BACKING USED AT CONTINUITY PLATE TO COLUMN WELDS NEED NOT BE REMOVED. IF BACKING IS REMOVED, FOLLOWING THE REMOVAL OF BACKING, THE ROOT PASS SHALL BE BACKGOUGED TO SOUND WELD METAL AND BACKWELDED WITH A REINFORCING FILLET. THE REINFORCING FILLET SHALL BE CONTINUOUS WITH A MINIMUM SIZE OF 5/16".
3. STEEL BACKING AT BEAM BOTTOM FLANGE: STEEL BACKING AT BEAM BOTTOM FLANGE SHALL BE REMOVED. FOLLOWING THE REMOVAL OF BACKING, THE ROOT PASS SHALL BE BACKGOUGED TO SOUND WELD METAL AND BACKWELDED WITH A REINFORCING FILLET. THE SIZE OF THE REINFORCING FILLET LEG ADJACENT TO THE COLUMN SHALL BE A MINIMUM OF 5/16", AND THE REINFORCING FILLET LEG ADJACENT TO THE BEAM FLANGE SHALL BE SUCH THAT THE FILLET TOE IS LOCATED ON THE BEAM FLANGE BASE METAL.
   EXCEPTION: IF THE BASE METAL AND WELD ROOT ARE GROUND SMOOTH AFTER REMOVAL OF BACKING, THE REINFORCING FILLET ADJACENT TO THE BEAM FLANGE NEED NOT EXTEND TO BASE METAL.
4. STEEL BACKING AT BEAM TOP FLANGE: WHERE STEEL BACKING IS USED WITH CJP GROOVE WELDS BETWEEN THE TOP BEAM FLANGE AND THE COLUMN, AND THE BACKING IS NOT REMOVED, THE BACKING SHALL BE ATTACHED TO THE COLUMN BY A CONTINUOUS 5/16" FILLET WELD ON THE EDGE BELOW THE CJP GROOVE WELD.
5. PROHIBITED WELDS AT STEEL BACKING: BACKING AT BEAM FLANGE-TO-COLUMN FLANGE JOINTS SHALL NOT BE WELDED TO THE UNDERSIDE OF THE BEAM FLANGE, NOR SHALL TACK WELDS BE PERMITTED AT THIS LOCATION. IF FILLET WELDS ARE PLACED BETWEEN THE BACKING AND THE BEAM FLANGE IN ERROR, THEY SHALL BE REPAIRED AS INDICATED IN AISC 358-16 SECTION 3.3.4.
6. NON-FUSIBLE BACKING AT BEAM FLANGE-TO-COLUMN JOINTS: WHERE NON-FUSIBLE BACKING IS USED WITH CJP GROOVE WELDS BETWEEN THE BEAM FLANGES AND THE COLUMN, THE BACKING SHALL BE REMOVED, THE ROOT BACKGOUGED TO SOUND WELD METAL AND BACKWELDED WITH A REINFORCING FILLET. THE SIZE OF THE REINFORCING FILLET LEG ADJACENT TO THE COLUMN SHALL BE A MINIMUM OF 5/16" AND THE REINFORCING FILLET LEG ADJACENT TO THE BEAM FLANGE SHALL BE SUCH THAT THE FILLET TOE IS LOCATED ON THE BEAM FLANGE BASE METAL.
   EXCEPTION: IF THE BASE METAL AND WELD ROOT IS GROUND SMOOTH AFTER REMOVAL OF BACKING, THE REINFORCING FILLET ADJACENT TO THE BEAM FLANGE NEED NOT EXTEND TO BASE METAL.

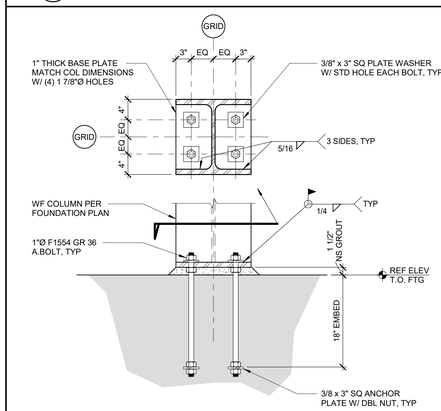
18 S702 **BACKING AT OMF BEAM CONN**
1 1/2" = 1'-0"



17 S702 **DETAIL**
1" = 1'-0"



11 S702 **DETAIL**
1" = 1'-0"



16 S702 **DETAIL**
N.T.S.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125726 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/28/2026

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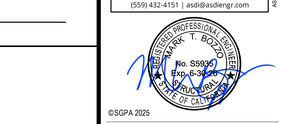
7112 N. FRESNO STREET, SUITE 311
FRESNO, CALIFORNIA 93720
(559) 432-4151 | asd@asdiengr.com
ASD # 5/24/02



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KERN HIGH SCHOOL DISTRICT
5801 SUNDALE AVE.
BAKERSFIELD, CA 93309

CENTRAL VALLEY
CONTINUATION HIGH SCHOOL CAMPUS
526 MANNEL AVENUE
SHAFTER, CA 93263

DRAWING SUBMITTAL SCHEDULE

100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO:22434-E-01

FRAMING DETAILS

S702

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EQUIPMENT ANCHORAGE NOTES

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.17 THROUGH 1617A.1.20 & 1617A.1.23 AND ASCE 7-16 CHAPTERS 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING AND DUCTWORK DISTRIBUTION SYSTEM BRACING NOTES

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7 SECTION 13.3 AS DEFINED IN ASCE 7 SECTIONS 13.6.6, 13.6.7, 13.6.8, AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. THE MEP DESIGN PROFESSIONAL ENGINEER RESPONSIBLE FOR CONTENT ON THESE SHEETS HAS VERIFIED THAT THE DESIGN METHODS IDENTIFIED BELOW ARE IN ACCORDANCE WITH DSA IR 16-13.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP	MD	PP	E	
☒	☒	☐	☐	OPTION 1: PROJECT-SPECIFIC DESIGN.
☐	☐	☐	☐	OPTION 2: DESIGN BASED ON OSHPD OPM, WITHIN PROJECT SUBMITTAL
☐	☐	☐	☐	OPTION 3: DESIGN BASED ON OSHPD OPM, DEFERRED SUBMITTAL

MECHANICAL LEGEND

SYMBOL	ITEM	ABBR.
	SUPPLY AIR	SA
	RETURN AIR	RA
	EXHAUST AIR	EA
	OUTSIDE AIR	OSA
	TRANSFER AIR	TA
1 / M-2	DETAIL DESIGNATION / DETAIL NUMBER / SHEET NO. WHERE SHOWN	
AC / 1	EQUIPMENT DESIGNATION / UNIT ABBREVIATION / NUMBER	
A 10x10 100 (CRD / FD)	GRILLE DESIGNATION / NECK SIZE / CFM / FIRE DAMPER WHERE REQ'D	
	ACOUSTIC LINED DUCT	L
	TURNING VANES	TV
	DUCT FLEXIBLE CONNECTION	
	DUCT RISER	
	DUCT DROP	
	RECTANGULAR TO ROUND FITTING	
	VOLUME CONTROL DAMPER	VD
FD	FIRE DAMPER W/ ACCESS	FD
FSD	FIRE SMOKE DAMPER W/ ACCESS	FSD
CRD	CEILING RADIATION DAMPER	CRD
	OPPOSED BLADE DAMPER	OBD
	BACKDRAFT DAMPER	BDD
	DUCT FLEX CONNECTOR	FC
M	MOTORIZED DAMPER	
T	THERMOSTAT @ +48" AFF (MAX.) (TOP OF BOX)	T-STAT
S	SENSOR @ +48" AFF	
SP	STATIC PRESSURE SENSOR @ +48" AFF	
CO	CARBON MONOXIDE SENSOR @ +48" AFF	
CO2	CARBON DIOXIDE SENSOR @ +48" AFF	
TC	TIMECLOCK @ +48" AFF	
TCP	TEMPERATURE CONTROL PANEL	TCP
SD	DUCT SMOKE DETECTOR	SD
	PIPE RISER / DROP	(R) / (D)
	FROM ABOVE	(FA)
	FROM BELOW	(FB)
	TO ABOVE	(TA)
	TO BELOW	(TB)
	ABOVE FINISHED FLOOR	AFF
	UNLESS OTHERWISE NOTED	UON
	TYPICAL	(TYP)
	BOTTOM OF DUCT	BOD
	UNDERCUT DOOR 3/4"	UCD
	NEW	(N)
	EXISTING	(E)
	POINT OF DIS/CONNECTION	POD/POC
	REFRIGERANT LIQUID	RL
	REFRIGERANT SUCTION	RS
	DEMOLISHED/DEMO	

MECHANICAL SPECIFICATIONS

1. THIS CONTRACTOR SHALL COMPLY WITH ALL CODES AND REGULATIONS IN EFFECT AT THE JOB SITE, INCLUDING, BUT NOT LIMITED TO:
   A. 2025 CALIFORNIA ADMINISTRATIVE CODE
   B. 2022 CALIFORNIA BUILDING CODE
   C. 2022 CALIFORNIA MECHANICAL CODE
   D. 2022 CALIFORNIA PLUMBING CODE
   E. 2022 CALIFORNIA ELECTRICAL CODE
   F. 2022 CALIFORNIA GREEN BUILDING STANDARDS
   G. 2022 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS - TITLE 24
   H. NATIONAL FIRE PROTECTION ASSOCIATION
   I. CALIFORNIA STATE FIRE MARSHAL
2. DRAWINGS ARE SCHEMATIC AND DIAGRAMMATIC. DRAWINGS INDICATE THE GENERAL ARRANGEMENT OF EQUIPMENT, PIPING, AND OTHER MECHANICAL WORK. USE JUDGEMENT AND CARE TO INSTALL MECHANICAL WORK TO FIT THE JOB CONDITIONS WITHIN THE BUILDING CONSTRUCTION AND FINISHES, AND TO FUNCTION PROPERLY.
3. CONTRACTOR SHALL EXAMINE THE SITE, VERIFY DIMENSIONS AND LOCATIONS WITH DRAWINGS, CHECK UTILITY CONNECTION LOCATIONS, AND FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS AND LIMITATIONS. NO EXTRAS WILL BE ALLOWED BECAUSE OF THE CONTRACTOR'S MISUNDERSTANDING OF THE AMOUNT OF WORK INVOLVED OR HIS LACK OF KNOWLEDGE OF ANY SITE CONDITION WHICH MAY AFFECT HIS WORK. ANY APPARENT VARIANCE OF THE DRAWINGS OR SPECIFICATIONS FROM THE EXISTING CONDITIONS AT THE SITE SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
4. THIS CONTRACTOR SHALL ORGANIZE HIS WORK SO THAT THE PROGRESS OF THE MECHANICAL WORK WILL CONFORM TO THE PROGRESS OF THE OTHER TRADES, AND SHALL COMPLETE THE ENTIRE INSTALLATION AS SOON AS THE CONDITIONS OF THE BUILDING WILL PERMIT. ANY COST RESULTING FROM DEFECTIVE OR ILL TIMED WORK PERFORMED UNDER THIS SECTION SHALL BE BORNE BY THIS CONTRACTOR.
5. THE WORK SHALL ALSO INCLUDE THE COMPLETION OF DETAILS OF MECHANICAL WORK NOT MENTIONED OR SHOWN WHICH ARE NECESSARY FOR THE SUCCESSFUL OPERATION OF MECHANICAL SYSTEMS DESCRIBED ON THE DRAWINGS OR REQUIRED BY THESE SPECIFICATIONS. FURNISH AND INSTALL ANY INCIDENTAL WORK NOT SHOWN OR SPECIFIED WHICH IS REQUIRED TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
6. ALL MATERIALS AND EQUIPMENT INSTALLED UNDER THIS CONTRACT SHALL BE GUARANTEED FREE FROM ALL MECHANICAL, ELECTRICAL AND WORKMANSHIP DEFECTS FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ALL DAMAGED ITEMS INSTALLED UNDER THIS CONTRACT WITHOUT ADDITIONAL COST TO OWNER.
7. THE MECHANICAL CONTRACTOR SHALL PROVIDE THE OWNER COPIES OF OPERATION, MAINTENANCE AND PREVENTATIVE MAINTENANCE MANUALS FOR EACH MODEL AND TYPE OF MECHANICAL EQUIPMENT.
8. SUBMIT MANUFACTURER'S PRODUCT DATA INCLUDING NAME OF MANUFACTURER, TRADE NAME, MODEL, CAPACITY, OPTIONS, DIMENSIONS, WEIGHTS, INSTALLATION AND STARTUP DATA. EQUIPMENT PERFORMANCES SCHEDULED ARE MINIMUM CAPACITY, AIR FLOW, EFFICIENCY, ETC. REQUIRED. WEIGHTS AND ELECTRICAL DATA SCHEDULED IS MAXIMUM AVAILABLE OR ALLOWABLE.
9. ALL EQUIPMENT IS TO BE INSTALLED AS RECOMMENDED BY THE MANUFACTURER. USING ALL ACCESSORY EQUIPMENT AVAILABLE FROM THE MANUFACTURER FOR SUPPORTS, CONTROLS, ETC., TO MAKE A COMPLETE SYSTEM. ALL EQUIPMENT OR ACCESSORIES NEEDED AND NOT SHOWN OR SPECIFIED SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR. ADJUST THE EQUIPMENT FOR PROPER OPERATION, CHECK ALL CONTROLS AND VERIFY THAT ALL SAFETY DEVICES ARE FUNCTIONING PROPERLY.
10. PROVIDE ACCESS DOORS WHERE ACCESS THROUGH FLOORS, WALLS OR CEILINGS IS REQUIRED TO ACCESS MECHANICAL COMPONENTS OR OTHER SYSTEMS REQUIRING ACCESS FOR MAINTENANCE, TESTING OR OBSERVATION. COORDINATE THE EXACT TYPE AND LOCATION OF ACCESS DOORS TO PROVIDE PROPER ACCESS TO THE ITEM CONCEALED.
11. CHECK ALL SYSTEMS FOR LEAKS AND EXCESSIVE NOISE. CORRECT ANY DEFICIENCIES AS SOON AS DISCOVERED. OPERATE THE SYSTEMS AS A TEST AND DEMONSTRATE TO THE OWNER THAT THE SYSTEM IS FUNCTIONING PROPERLY.
12. INSTALL PIPING TO ALLOW FOR EXPANSION AND CONTRACTION WITHOUT STRESSING PIPE, JOINTS, OR CONNECTED EQUIPMENT.
13. MECHANICAL EQUIPMENT AND PIPING SHALL NOT BE WITHIN ELECTRICAL OR LOW VOLTAGE EQUIPMENT DEDICATED SPACE. NO PIPING WILL BE ALLOWED ABOVE EQUIPMENT'S DEDICATED SPACE.
14. ALL EXPOSED DUCTWORK OUTDOORS SHALL BE PREPARED WITH A PRIME COAT AND THEN PAINTED, COLOR BY ARCHITECT.
15. NEW BUILDINGS 10,000 SQUARE FEET AND ABOVE TO BE COMMISSIONED PER REQUIREMENTS LISTED IN CALGREEN SECTION 5.410.2.
16. ADHESIVES, SEALANTS AND CAULKS USED ON THE PROJECT SHALL MEET THE REQUIREMENTS LISTED IN CALGREEN SECTION 5.504.4.1.
17. MINIMUM MERV-8 FILTERS TO BE USED FOR ANY PERMANENT HVAC SYSTEM IN OPERATION DURING CONSTRUCTION. REPLACE ALL FILTERS WITH MINIMUM MERV-13 PRIOR TO OCCUPANCY OR AT THE CONCLUSION OF CONSTRUCTION PER CALGREEN SECTION 5.504.1.
18. DURING CONSTRUCTION, ALL HVAC EQUIPMENT, DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENTS SHALL BE COVERED WITH TAPE, PLASTIC, OR SHEET METAL TO REDUCE THE AMOUNT OF DUST, WATER AND DEBRIS WHICH MAY ENTER THE SYSTEM PER CALGREEN SECTION 5.504.3.
19. ALL MECHANICAL VENTILATION SYSTEMS SHALL HAVE FILTRATION MEDIA FOR OUTSIDE AIR AND RETURN AIR WHICH PROVIDES MINIMUM MERV-13 FILTRATION. FILTRATION MEDIA SHALL BE REPLACED PRIOR TO OCCUPANCY AND SHALL BE CLEARLY LABELED WITH MERV RATING PER CALGREEN SECTION 5.5.04.5.3.
20. ALL REFRIGERANTS USED OR PROVIDED ON THIS PROJECT SHALL MEET THE OZONE DEPLETION AND GREENHOUSE GAS REDUCTION REQUIREMENTS PER CALGREEN SECTION 5.508.1.

MECHANICAL SHEET INDEX

SHEET NUMBER	SHEET NAME
M-001	MECHANICAL LEGEND AND NOTES
M-002	MECHANICAL SCHEDULES
M-003	MECHANICAL SCHEDULES
M-101	MECHANICAL SITE PLAN
M-201	MECHANICAL - FLOOR PLAN
M-221	MECHANICAL - ROOF PLAN
M-701	MECHANICAL CONTROLS
M-702	MECHANICAL CONTROLS
M-703	MECHANICAL CONTROLS
M-704	MECHANICAL CONTROLS
M-801	MECHANICAL DETAILS
M-802	MECHANICAL DETAILS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125726 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/28/2026

SGPA
ARCHITECTURE AND PLANNING
3111 CAMINO DEL RIO NORTH,
STUDIO 500
SAN DIEGO, CA 92108
619.297.0131
WWW.SGPA.COM

LP CONSULTING ENGINEERS
MEP & FS / Sustainability / CxA
1209 Pleasant Grove Blvd.
Roseville, CA 95678
p 916-771-0778
www.lpengineers.com
Job #: 24-2161

REGISTERED PROFESSIONAL ENGINEER
BRYAN ENNIS
M 41413
REN. 03-31-27
MECHANICAL
STATE OF CALIFORNIA

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KERN HIGH SCHOOL DISTRICT
5801 SUNDALE AVE.
BAKERSFIELD, CA 93309

CENTRAL VALLEY
CONTINUATION HIGH SCHOOL CAMPUS
526 MANNEL AVENUE
SHAFTER, CA 93263

DRAWING SUBMITTAL SCHEDULE	
100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO: 22434-E-02

MECHANICAL LEGEND AND NOTES

M-001

4/6/2026 9:39:39 AM Autodesk Docs://KUSD - Central Valley Continuation HS/24-2161 Central Valley CHS_MEP_FP_F 2023.rvt

PACKAGE HEAT PUMP SCHEDULE

				ELECTRICAL					SUPPLY FAN					COOLING (R454B)							HEATING									
TYPE	MARK	NOMINAL TONS	DUCT CONFIG.	VOLTAGE	PHASE	RLA	MCA	MOCP	DESIGN BHP	DRIVE / SPEEDS	SUPPLY AIR CFM	E.S.P. (IN. W.C.)	MIN.OSA CFM	TYPE	SEER/ EER	TOTAL COOLING CAPACITY	SENSIBLE COOLING CAPACITY	E.A. DB (°F)	E.A. WB (°F)	AMBIENT TEMP. (°F)	TYPE	HPSF / COP	TOTAL CAPACITY	INTEGRATED HEATING CAPACITY	ELEC HEAT (KW)	AMBIENT TEMP (°F)	FILTER TYPE	OPERATING WEIGHT	MANUFACTURER	MODEL	NOTES
PHP	1	5	VERTICAL	460	3	17.4	21	25	0.90	DIRECT / 2032	2,000	0.6	SEE OSA SCHEDULE	DX	17 / 9.92	55,860 Btu/h	44,540 Btu/h	80	67	105	HP	7.2 / 3.8	39,600 Btu/h	34,700 Btu/h	4.90	30	MERV-13	875	CARRIER	50GEQM06A3M5	SEE ELECTRICAL DRAWINGS FOR UNIT DISCONNECT SWITCH AND CONVENIENCE OUTLET. UNIT(S) TO BE CONSTANT VOLUME. CONTRACTOR TO BALANCE UNITS UNDER ALL MODES OF OPERATION AT AIRFLOW(S) LISTED. UNITS WITH FACTORY/INTEGRAL CONTROL SEQUENCES WHICH INCLUDE FAN SPEED MODULATION TO BE ADJUSTED IN FIELD TO MAINTAIN CONSTANT VOLUME AIRFLOW. PROVIDE UNITS WITH: LOW AMBIENT KIT, CRANKCASE HEATER, HINGED ACCESS DOORS, LOUVERED CONDENSER COIL HAIL GUARDS, AND ANTI-SHORT CYCLE COMPRESSOR DELAY TIMER. PROVIDE MERV 13 FILTERS. PROVIDE 14" HIGH ROOF CURB. PROVIDE MODULATING ULTRA LOW-LEAK 100% ECONOMIZER WITH FAULT DETECTION & DIAGNOSTICS (FDD), ADJUSTABLE DRY BULB CONTROL. PROVIDE CSFM LISTED DUCT SMOKE DETECTOR IN THE SUPPLY AIR PLENUM TO SHUT-OFF UNIT UPON DETECTION OF SMOKE. INSTALL IN STRICT ACCORDANCE WITH CALIFORNIA MECHANICAL CODE, SECTION 608. COORDINATE WITH ELECTRICAL AND/OR FIRE ALARM SYSTEM CONTRACTOR FOR COMPATIBILITY AND INSTALLATION. REFRIGERANT TO BE GROUP A2L SAFETY CLASSIFICATION. REFRIGERATION SYSTEM IS HIGH-PROBABILITY CLASSIFICATION PER CMC CHAPTER 11. UNITS WITH GROUP A2L REFRIGERANT TO BE PROVIDED WITH THE FOLLOWING PER CMC CHAPTER 11: (1)NAMEPLATE AND LABELING DESIGNATING REFRIGERANT FLAMMABILITY. (2)FACTORY REFRIGERANT DETECTION SYSTEM WHICH, UPON DETECTION OF REFRIGERANT EXCEEDING LISTED CONCENTRATION WILL; 1) ACTIVATE SUPPLY FAN, AND 2) TURN OFF COMPRESSOR, HEATING ELEMENTS, AND ANY OTHER ELECTRICAL DEVICES EXCLUDING THE CONTROL POWER TRANSFORMERS, CONTROLS SYSTEMS AND THE SUPPLY FAN. SEE M-701 AND M-702 DRAWINGS FOR CONTROLS.
PHP	2	5	VERTICAL	460	3	17.4	21	25	0.90	DIRECT / 2032	2,000	0.6	SEE OSA SCHEDULE	DX	17 / 9.92	55,860 Btu/h	44,540 Btu/h	80	67	105	HP	7.2 / 3.8	39,600 Btu/h	34,700 Btu/h	4.90	30	MERV-13	875	CARRIER	50GEQM06A3M5	SEE ELECTRICAL DRAWINGS FOR UNIT DISCONNECT SWITCH AND CONVENIENCE OUTLET. UNIT(S) TO BE CONSTANT VOLUME. CONTRACTOR TO BALANCE UNITS UNDER ALL MODES OF OPERATION AT AIRFLOW(S) LISTED. UNITS WITH FACTORY/INTEGRAL CONTROL SEQUENCES WHICH INCLUDE FAN SPEED MODULATION TO BE ADJUSTED IN FIELD TO MAINTAIN CONSTANT VOLUME AIRFLOW. PROVIDE UNITS WITH: LOW AMBIENT KIT, CRANKCASE HEATER, HINGED ACCESS DOORS, LOUVERED CONDENSER COIL HAIL GUARDS, AND ANTI-SHORT CYCLE COMPRESSOR DELAY TIMER. PROVIDE MERV 13 FILTERS. PROVIDE 14" HIGH ROOF CURB. PROVIDE MODULATING ULTRA LOW-LEAK 100% ECONOMIZER WITH FAULT DETECTION & DIAGNOSTICS (FDD), ADJUSTABLE DRY BULB CONTROL. PROVIDE CSFM LISTED DUCT SMOKE DETECTOR IN THE SUPPLY AIR PLENUM TO SHUT-OFF UNIT UPON DETECTION OF SMOKE. INSTALL IN STRICT ACCORDANCE WITH CALIFORNIA MECHANICAL CODE, SECTION 608. COORDINATE WITH ELECTRICAL AND/OR FIRE ALARM SYSTEM CONTRACTOR FOR COMPATIBILITY AND INSTALLATION. REFRIGERANT TO BE GROUP A2L SAFETY CLASSIFICATION. REFRIGERATION SYSTEM IS HIGH-PROBABILITY CLASSIFICATION PER CMC CHAPTER 11. UNITS WITH GROUP A2L REFRIGERANT TO BE PROVIDED WITH THE FOLLOWING PER CMC CHAPTER 11: (1)NAMEPLATE AND LABELING DESIGNATING REFRIGERANT FLAMMABILITY. (2)FACTORY REFRIGERANT DETECTION SYSTEM WHICH, UPON DETECTION OF REFRIGERANT EXCEEDING LISTED CONCENTRATION WILL; 1) ACTIVATE SUPPLY FAN, AND 2) TURN OFF COMPRESSOR, HEATING ELEMENTS, AND ANY OTHER ELECTRICAL DEVICES EXCLUDING THE CONTROL POWER TRANSFORMERS, CONTROLS SYSTEMS AND THE SUPPLY FAN. SEE M-701 AND M-702 DRAWINGS FOR CONTROLS.
PHP	3	5	VERTICAL	460	3	17.4	21	25	0.90	DIRECT / 2032	2,000	0.6	SEE OSA SCHEDULE	DX	17 / 9.92	55,860 Btu/h	44,540 Btu/h	80	67	105	HP	7.2 / 3.8	39,600 Btu/h	34,700 Btu/h	4.90	30	MERV-13	875	CARRIER	50GEQM06A3M5	SEE ELECTRICAL DRAWINGS FOR UNIT DISCONNECT SWITCH AND CONVENIENCE OUTLET. UNIT(S) TO BE CONSTANT VOLUME. CONTRACTOR TO BALANCE UNITS UNDER ALL MODES OF OPERATION AT AIRFLOW(S) LISTED. UNITS WITH FACTORY/INTEGRAL CONTROL SEQUENCES WHICH INCLUDE FAN SPEED MODULATION TO BE ADJUSTED IN FIELD TO MAINTAIN CONSTANT VOLUME AIRFLOW. PROVIDE UNITS WITH: LOW AMBIENT KIT, CRANKCASE HEATER, HINGED ACCESS DOORS, LOUVERED CONDENSER COIL HAIL GUARDS, AND ANTI-SHORT CYCLE COMPRESSOR DELAY TIMER. PROVIDE MERV 13 FILTERS. PROVIDE 14" HIGH ROOF CURB. PROVIDE MODULATING ULTRA LOW-LEAK 100% ECONOMIZER WITH FAULT DETECTION & DIAGNOSTICS (FDD), ADJUSTABLE DRY BULB CONTROL. PROVIDE CSFM LISTED DUCT SMOKE DETECTOR IN THE SUPPLY AIR PLENUM TO SHUT-OFF UNIT UPON DETECTION OF SMOKE. INSTALL IN STRICT ACCORDANCE WITH CALIFORNIA MECHANICAL CODE, SECTION 608. COORDINATE WITH ELECTRICAL AND/OR FIRE ALARM SYSTEM CONTRACTOR FOR COMPATIBILITY AND INSTALLATION. REFRIGERANT TO BE GROUP A2L SAFETY CLASSIFICATION. REFRIGERATION SYSTEM IS HIGH-PROBABILITY CLASSIFICATION PER CMC CHAPTER 11. UNITS WITH GROUP A2L REFRIGERANT TO BE PROVIDED WITH THE FOLLOWING PER CMC CHAPTER 11: (1)NAMEPLATE AND LABELING DESIGNATING REFRIGERANT FLAMMABILITY. (2)FACTORY REFRIGERANT DETECTION SYSTEM WHICH, UPON DETECTION OF REFRIGERANT EXCEEDING LISTED CONCENTRATION WILL; 1) ACTIVATE SUPPLY FAN, AND 2) TURN OFF COMPRESSOR, HEATING ELEMENTS, AND ANY OTHER ELECTRICAL DEVICES EXCLUDING THE CONTROL POWER TRANSFORMERS, CONTROLS SYSTEMS AND THE SUPPLY FAN. SEE M-701 AND M-702 DRAWINGS FOR CONTROLS.
PHP	4	5	VERTICAL	460	3	17.4	21	25	0.90	DIRECT / 2032	2,000	0.6	SEE OSA SCHEDULE	DX	17 / 9.92	55,860 Btu/h	44,540 Btu/h	80	67	105	HP	7.2 / 3.8	39,600 Btu/h	34,700 Btu/h	4.90	30	MERV-13	875	CARRIER	50GEQM06A3M5	SEE ELECTRICAL DRAWINGS FOR UNIT DISCONNECT SWITCH AND CONVENIENCE OUTLET. UNIT(S) TO BE CONSTANT VOLUME. CONTRACTOR TO BALANCE UNITS UNDER ALL MODES OF OPERATION AT AIRFLOW(S) LISTED. UNITS WITH FACTORY/INTEGRAL CONTROL SEQUENCES WHICH INCLUDE FAN SPEED MODULATION TO BE ADJUSTED IN FIELD TO MAINTAIN CONSTANT VOLUME AIRFLOW. PROVIDE UNITS WITH: LOW AMBIENT KIT, CRANKCASE HEATER, HINGED ACCESS DOORS, LOUVERED CONDENSER COIL HAIL GUARDS, AND ANTI-SHORT CYCLE COMPRESSOR DELAY TIMER. PROVIDE MERV 13 FILTERS. PROVIDE 14" HIGH ROOF CURB. PROVIDE MODULATING ULTRA LOW-LEAK 100% ECONOMIZER WITH FAULT DETECTION & DIAGNOSTICS (FDD), ADJUSTABLE DRY BULB CONTROL. PROVIDE CSFM LISTED DUCT SMOKE DETECTOR IN THE SUPPLY AIR PLENUM TO SHUT-OFF UNIT UPON DETECTION OF SMOKE. INSTALL IN STRICT ACCORDANCE WITH CALIFORNIA MECHANICAL CODE, SECTION 608. COORDINATE WITH ELECTRICAL AND/OR FIRE ALARM SYSTEM CONTRACTOR FOR COMPATIBILITY AND INSTALLATION. REFRIGERANT TO BE GROUP A2L SAFETY CLASSIFICATION. REFRIGERATION SYSTEM IS HIGH-PROBABILITY CLASSIFICATION PER CMC CHAPTER 11. UNITS WITH GROUP A2L REFRIGERANT TO BE PROVIDED WITH THE FOLLOWING PER CMC CHAPTER 11: (1)NAMEPLATE AND LABELING DESIGNATING REFRIGERANT FLAMMABILITY. (2)FACTORY REFRIGERANT DETECTION SYSTEM WHICH, UPON DETECTION OF REFRIGERANT EXCEEDING LISTED CONCENTRATION WILL; 1) ACTIVATE SUPPLY FAN, AND 2) TURN OFF COMPRESSOR, HEATING ELEMENTS, AND ANY OTHER ELECTRICAL DEVICES EXCLUDING THE CONTROL POWER TRANSFORMERS, CONTROLS SYSTEMS AND THE SUPPLY FAN. SEE M-701 AND M-702 DRAWINGS FOR CONTROLS.
PHP	5	3	VERTICAL	460	3	15.2	19	20	0.39	DIRECT / 1753	1,200	0.8	SEE OSA SCHEDULE	DX	17 / 10.41	33,260 Btu/h	25,140 Btu/h	80	67	105	HP	8.0 / 3.90	22,600 Btu/h	19,800 Btu/h	4.90	30	MERV-13	850	CARRIER	50GEQM04A3M5	SEE ELECTRICAL DRAWINGS FOR UNIT DISCONNECT SWITCH AND CONVENIENCE OUTLET. UNIT(S) TO BE CONSTANT VOLUME. CONTRACTOR TO BALANCE UNITS UNDER ALL MODES OF OPERATION AT AIRFLOW(S) LISTED. UNITS WITH FACTORY/INTEGRAL CONTROL SEQUENCES WHICH INCLUDE FAN SPEED MODULATION TO BE ADJUSTED IN FIELD TO MAINTAIN CONSTANT VOLUME AIRFLOW. PROVIDE UNITS WITH: LOW AMBIENT KIT, CRANKCASE HEATER, HINGED ACCESS DOORS, LOUVERED CONDENSER COIL HAIL GUARDS, AND ANTI-SHORT CYCLE COMPRESSOR DELAY TIMER. PROVIDE MERV 13 FILTERS. PROVIDE 14" HIGH ROOF CURB. PROVIDE MODULATING ULTRA LOW-LEAK 100% ECONOMIZER WITH FAULT DETECTION & DIAGNOSTICS (FDD), ADJUSTABLE DRY BULB CONTROL. PROVIDE CSFM LISTED DUCT SMOKE DETECTOR IN THE SUPPLY AIR PLENUM TO SHUT-OFF UNIT UPON DETECTION OF SMOKE. INSTALL IN STRICT ACCORDANCE WITH CALIFORNIA MECHANICAL CODE, SECTION 608. COORDINATE WITH ELECTRICAL AND/OR FIRE ALARM SYSTEM CONTRACTOR FOR COMPATIBILITY AND INSTALLATION. REFRIGERANT TO BE GROUP A2L SAFETY CLASSIFICATION. REFRIGERATION SYSTEM IS HIGH-PROBABILITY CLASSIFICATION PER CMC CHAPTER 11. UNITS WITH GROUP A2L REFRIGERANT TO BE PROVIDED WITH THE FOLLOWING PER CMC CHAPTER 11: (1)NAMEPLATE AND LABELING DESIGNATING REFRIGERANT FLAMMABILITY. (2)FACTORY REFRIGERANT DETECTION SYSTEM WHICH, UPON DETECTION OF REFRIGERANT EXCEEDING LISTED CONCENTRATION WILL; 1) ACTIVATE SUPPLY FAN, AND 2) TURN OFF COMPRESSOR, HEATING ELEMENTS, AND ANY OTHER ELECTRICAL DEVICES EXCLUDING THE CONTROL POWER TRANSFORMERS, CONTROLS SYSTEMS AND THE SUPPLY FAN. SEE M-701 AND M-702 DRAWINGS FOR CONTROLS.
PHP	6	6	VERTICAL	460	3	27.3	34	35	1.39	DIRECT / 2355	2,400	0.8	SEE OSA SCHEDULE	DX	- / 11.2	64,350 Btu/h	54,910 Btu/h	80	67	105	HP	- / 3.4	45,600 Btu/h	40,000 Btu/h	10.6	30	MERV-13	900	CARRIER	50FEQM07A3M6	SEE ELECTRICAL DRAWINGS FOR UNIT DISCONNECT SWITCH AND CONVENIENCE OUTLET. UNIT(S) TO BE CONSTANT VOLUME. CONTRACTOR TO BALANCE UNITS UNDER ALL MODES OF OPERATION AT AIRFLOW(S) LISTED. UNITS WITH FACTORY/INTEGRAL CONTROL SEQUENCES WHICH INCLUDE FAN SPEED MODULATION TO BE ADJUSTED IN FIELD TO MAINTAIN CONSTANT VOLUME AIRFLOW. PROVIDE UNITS WITH: LOW AMBIENT KIT, CRANKCASE HEATER, HINGED ACCESS DOORS, LOUVERED CONDENSER COIL HAIL GUARDS, AND ANTI-SHORT CYCLE COMPRESSOR DELAY TIMER. PROVIDE MERV 13 FILTERS. PROVIDE 14" HIGH ROOF CURB. PROVIDE MODULATING ULTRA LOW-LEAK 100% ECONOMIZER WITH FAULT DETECTION & DIAGNOSTICS (FDD), ADJUSTABLE DRY BULB CONTROL. PROVIDE CSFM LISTED DUCT SMOKE DETECTOR IN THE SUPPLY AIR PLENUM TO SHUT-OFF UNIT UPON DETECTION OF SMOKE. INSTALL IN STRICT ACCORDANCE WITH CALIFORNIA MECHANICAL CODE, SECTION 608. COORDINATE WITH ELECTRICAL AND/OR FIRE ALARM SYSTEM CONTRACTOR FOR COMPATIBILITY AND INSTALLATION. REFRIGERANT TO BE GROUP A2L SAFETY CLASSIFICATION. REFRIGERATION SYSTEM IS HIGH-PROBABILITY CLASSIFICATION PER CMC CHAPTER 11. UNITS WITH GROUP A2L REFRIGERANT TO BE PROVIDED WITH THE FOLLOWING PER CMC CHAPTER 11: (1)NAMEPLATE AND LABELING DESIGNATING REFRIGERANT FLAMMABILITY. (2)FACTORY REFRIGERANT DETECTION SYSTEM WHICH, UPON DETECTION OF REFRIGERANT EXCEEDING LISTED CONCENTRATION WILL; 1) ACTIVATE SUPPLY FAN, AND 2) TURN OFF COMPRESSOR, HEATING ELEMENTS, AND ANY OTHER ELECTRICAL DEVICES EXCLUDING THE CONTROL POWER TRANSFORMERS, CONTROLS SYSTEMS AND THE SUPPLY FAN. SEE M-701 AND M-702 DRAWINGS FOR CONTROLS.
PHP	7	3	VERTICAL	460	3	15.2	19	20	0.39	DIRECT / 1753	1,200	0.8	SEE OSA SCHEDULE	DX	17 / 10.41	33,260 Btu/h	25,140 Btu/h	80	67	105	HP	8.0 / 3.90	22,600 Btu/h	19,800 Btu/h	4.90	30	MERV-13	850	CARRIER	50GEQM04A3M5	SEE ELECTRICAL DRAWINGS FOR UNIT DISCONNECT SWITCH AND CONVENIENCE OUTLET. UNIT(S) TO BE CONSTANT VOLUME. CONTRACTOR TO BALANCE UNITS UNDER ALL MODES OF OPERATION AT AIRFLOW(S) LISTED. UNITS WITH FACTORY/INTEGRAL CONTROL SEQUENCES WHICH INCLUDE FAN SPEED MODULATION TO BE ADJUSTED IN FIELD TO MAINTAIN CONSTANT VOLUME AIRFLOW. PROVIDE UNITS WITH: LOW AMBIENT KIT, CRANKCASE HEATER, HINGED ACCESS DOORS, LOUVERED CONDENSER COIL HAIL GUARDS, AND ANTI-SHORT CYCLE COMPRESSOR DELAY TIMER. PROVIDE MERV 13 FILTERS. PROVIDE 14" HIGH ROOF CURB. PROVIDE MODULATING ULTRA LOW-LEAK 100% ECONOMIZER WITH FAULT DETECTION & DIAGNOSTICS (FDD), ADJUSTABLE DRY BULB CONTROL. PROVIDE CSFM LISTED DUCT SMOKE DETECTOR IN THE SUPPLY AIR PLENUM TO SHUT-OFF UNIT UPON DETECTION OF SMOKE. INSTALL IN STRICT ACCORDANCE WITH CALIFORNIA MECHANICAL CODE, SECTION 608. COORDINATE WITH ELECTRICAL AND/OR FIRE ALARM SYSTEM CONTRACTOR FOR COMPATIBILITY AND INSTALLATION. REFRIGERANT TO BE GROUP A2L SAFETY CLASSIFICATION. REFRIGERATION SYSTEM IS HIGH-PROBABILITY CLASSIFICATION PER CMC CHAPTER 11. UNITS WITH GROUP A2L REFRIGERANT TO BE PROVIDED WITH THE FOLLOWING PER CMC CHAPTER 11: (1)NAMEPLATE AND LABELING DESIGNATING REFRIGERANT FLAMMABILITY. (2)FACTORY REFRIGERANT DETECTION SYSTEM WHICH, UPON DETECTION OF REFRIGERANT EXCEEDING LISTED CONCENTRATION WILL; 1) ACTIVATE SUPPLY FAN, AND 2) TURN OFF COMPRESSOR, HEATING ELEMENTS, AND ANY OTHER ELECTRICAL DEVICES EXCLUDING THE CONTROL POWER TRANSFORMERS, CONTROLS SYSTEMS AND THE SUPPLY FAN. SEE M-701 AND M-702 DRAWINGS FOR CONTROLS.
PHP	8	3	VERTICAL	460	3	15.2	19	20	0.39	DIRECT / 1753	1,200	0.8	SEE OSA SCHEDULE	DX	17 / 10.41	33,260 Btu/h	25,140 Btu/h	80	67	105	HP	8.0 / 3.90	22,600 Btu/h	19,800 Btu/h	4.90	30	MERV-13	850	CARRIER	50GEQM04A3M5	SEE ELECTRICAL DRAWINGS FOR UNIT DISCONNECT SWITCH AND CONVENIENCE OUTLET. UNIT(S) TO BE CONSTANT VOLUME. CONTRACTOR TO BALANCE UNITS UNDER ALL MODES OF OPERATION AT AIRFLOW(S) LISTED. UNITS WITH FACTORY/INTEGRAL CONTROL SEQUENCES WHICH INCLUDE FAN SPEED MODULATION TO BE ADJUSTED IN FIELD TO MAINTAIN CONSTANT VOLUME AIRFLOW. PROVIDE UNITS WITH: LOW AMBIENT KIT, CRANKCASE HEATER, HINGED ACCESS DOORS, LOUVERED CONDENSER COIL HAIL GUARDS, AND ANTI-SHORT CYCLE COMPRESSOR DELAY TIMER. PROVIDE MERV 13 FILTERS. PROVIDE 14" HIGH ROOF CURB. PROVIDE MODULATING ULTRA LOW-LEAK 100% ECONOMIZER WITH FAULT DETECTION & DIAGNOSTICS (FDD), ADJUSTABLE DRY BULB CONTROL. PROVIDE CSFM LISTED DUCT SMOKE DETECTOR IN THE SUPPLY AIR PLENUM TO SHUT-OFF UNIT UPON DETECTION OF SMOKE. INSTALL IN STRICT ACCORDANCE WITH CALIFORNIA MECHANICAL CODE, SECTION 608. COORDINATE WITH ELECTRICAL AND/OR FIRE ALARM SYSTEM CONTRACTOR FOR COMPATIBILITY AND INSTALLATION. REFRIGERANT TO BE GROUP A2L SAFETY CLASSIFICATION. REFRIGERATION SYSTEM IS HIGH-PROBABILITY CLASSIFICATION PER CMC CHAPTER 11. UNITS WITH GROUP A2L REFRIGERANT TO BE PROVIDED WITH THE FOLLOWING PER CMC CHAPTER 11: (1)NAMEPLATE AND LABELING DESIGNATING REFRIGERANT FLAMMABILITY. (2)FACTORY REFRIGERANT DETECTION SYSTEM WHICH, UPON DETECTION OF REFRIGERANT EXCEEDING LISTED CONCENTRATION WILL; 1) ACTIVATE SUPPLY FAN, AND 2) TURN OFF COMPRESSOR, HEATING ELEMENTS, AND ANY OTHER ELECTRICAL DEVICES EXCLUDING THE CONTROL POWER TRANSFORMERS, CONTROLS SYSTEMS AND THE SUPPLY FAN. SEE M-701 AND M-702 DRAWINGS FOR CONTROLS.
PHP	9	3	VERTICAL	460	3	15.2	19	20	0.39	DIRECT / 1753	1,200	0.6	SEE OSA SCHEDULE	DX	17 / 10.41	33,260 Btu/h	25,140 Btu/h	80	67	105	HP	8.0 / 3.90	22,600 Btu/h	19,800 Btu/h	4.90	30	MERV-13	850	CARRIER	50GEQM04A3M5	SEE ELECTRICAL DRAWINGS FOR UNIT DISCONNECT SWITCH AND CONVENIENCE OUTLET. UNIT(S) TO BE CONSTANT VOLUME. CONTRACTOR TO BALANCE UNITS UNDER ALL MODES OF OPERATION AT AIRFLOW(S) LISTED. UNITS WITH FACTORY/INTEGRAL CONTROL SEQUENCES WHICH INCLUDE FAN SPEED MODULATION TO BE ADJUSTED IN FIELD TO MAINTAIN CONSTANT VOLUME AIRFLOW. PROVIDE UNITS WITH: LOW AMBIENT KIT, CRANKCASE HEATER, HINGED ACCESS DOORS, LOUVERED CONDENSER COIL HAIL GUARDS, AND ANTI-SHORT CYCLE COMPRESSOR DELAY TIMER. PROVIDE MERV 13 FILTERS. PROVIDE 14" HIGH ROOF CURB. PROVIDE MODULATING ULTRA LOW-LEAK 100% ECONOMIZER WITH FAULT DETECTION & DIAGNOSTICS (FDD), ADJUSTABLE DRY BULB CONTROL. PROVIDE CSFM LISTED DUCT SMOKE DETECTOR IN THE SUPPLY AIR PLENUM TO SHUT-OFF UNIT UPON DETECTION OF SMOKE. INSTALL IN STRICT ACCORDANCE WITH CALIFORNIA MECHANICAL CODE, SECTION 608. COORDINATE WITH ELECTRICAL AND/OR FIRE ALARM SYSTEM CONTRACTOR FOR COMPATIBILITY AND INSTALLATION. REFRIGERANT TO BE GROUP A2L SAFETY CLASSIFICATION. REFRIGERATION SYSTEM IS HIGH-PROBABILITY CLASSIFICATION PER CMC CHAPTER 11. UNITS WITH GROUP A2L REFRIGERANT TO BE PROVIDED WITH THE FOLLOWING PER CMC CHAPTER 11: (1)NAMEPLATE AND LABELING DESIGNATING REFRIGERANT FLAMMABILITY. (2)FACTORY REFRIGERANT DETECTION SYSTEM WHICH, UPON DETECTION OF REFRIGERANT EXCEEDING LISTED CONCENTRATION WILL; 1) ACTIVATE SUPPLY FAN, AND 2) TURN OFF COMPRESSOR, HEATING ELEMENTS, AND ANY OTHER ELECTRICAL DEVICES EXCLUDING THE CONTROL POWER TRANSFORMERS, CONTROLS SYSTEMS AND THE SUPPLY FAN. SEE M-701 AND M-702 DRAWINGS FOR CONTROLS.
PHP	10	5	VERTICAL	460	3	17.4	21	25	0.90	DIRECT / 2032	2,000	0.6	SEE OSA SCHEDULE	DX	17 / 9.92	55,860 Btu/h	44,540 Btu/h	80	67	105	HP	7.2 / 3.8	39,600 Btu/h	34,700 Btu/h	4.90	30	MERV-13	875	CARRIER	50GEQM06A3M5	SEE ELECTRICAL DRAWINGS FOR UNIT DISCONNECT SWITCH AND CONVENIENCE OUTLET. UNIT(S) TO BE CONSTANT VOLUME. CONTRACTOR TO BALANCE UNITS UNDER ALL MODES OF OPERATION AT AIRFLOW(S) LISTED. UNITS WITH FACTORY/INTEGRAL CONTROL SEQUENCES WHICH INCLUDE FAN SPEED MODULATION TO BE ADJUSTED IN FIELD TO MAINTAIN CONSTANT VOLUME AIRFLOW. PROVIDE UNITS WITH: LOW AMBIENT KIT, CRANKCASE HEATER, HINGED ACCESS DOORS, LOUVERED CONDENSER COIL HAIL GUARDS, AND ANTI-SHORT CYCLE COMPRESSOR DELAY TIMER. PROVIDE MERV 13 FILTERS. PROVIDE 14" HIGH ROOF CURB. PROVIDE MODULATING ULTRA LOW-LEAK 100% ECONOMIZER WITH FAULT DETECTION & DIAGNOSTICS (FDD), ADJUSTABLE DRY BULB CONTROL. PROVIDE CSFM LISTED DUCT SMOKE DETECTOR IN THE SUPPLY AIR PLENUM TO SHUT-OFF UNIT UPON DETECTION OF SMOKE. INSTALL IN STRICT ACCORDANCE WITH CALIFORNIA MECHANICAL CODE, SECTION 608. COORDINATE WITH ELECTRICAL AND/OR FIRE ALARM SYSTEM CONTRACTOR FOR COMPATIBILITY AND INSTALLATION. REFRIGERANT TO BE GROUP A2L SAFETY CLASSIFICATION. REFRIGERATION SYSTEM IS HIGH-PROBABILITY CLASSIFICATION PER CMC CHAPTER 11. UNITS WITH GROUP A2L REFRIGERANT TO BE PROVIDED WITH THE FOLLOWING PER CMC CHAPTER 11: (1)NAMEPLATE AND LABELING DESIGNATING REFRIGERANT FLAMMABILITY. (2)FACTORY REFRIGERANT DETECTION SYSTEM WHICH, UPON DETECTION OF REFRIGERANT EXCEEDING LISTED CONCENTRATION WILL; 1) ACTIVATE SUPPLY FAN, AND 2) TURN OFF COMPRESSOR, HEATING ELEMENTS, AND ANY OTHER ELECTRICAL DEVICES EXCLUDING THE CONTROL POWER TRANSFORMERS, CONTROLS SYSTEMS AND THE SUPPLY FAN. SEE M-701 AND M-702 DRAWINGS FOR CONTROLS.
PHP	11	4	VERTICAL	460	3	18.7	23	25	0.64	DIRECT / 1811	1,600	0.6	SEE OSA SCHEDULE	DX	17 / 10.20	44,190 Btu/h	33,170 Btu/h	80	67	105	HP	7.2 / 3.80	31,800 Btu/h	27,800 Btu/h	4.90	30	MERV-13	875	CARRIER	50GEQM05A3M5	SEE ELECTRICAL DRAWINGS FOR UNIT DISCONNECT SWITCH AND CONVENIENCE OUTLET. UNIT(S) TO BE CONSTANT VOLUME. CONTRACTOR TO BALANCE UNITS UNDER ALL MODES OF OPERATION AT AIRFLOW(S) LISTED. UNITS WITH FACTORY/INTEGRAL CONTROL SEQUENCES WHICH INCLUDE FAN SPEED MODULATION TO BE ADJUSTED IN FIELD TO MAINTAIN CONSTANT VOLUME AIRFLOW. PROVIDE UNITS WITH: LOW AMBIENT KIT, CRANKCASE HEATER, HINGED ACCESS DOORS, LOUVERED CONDENSER COIL HAIL GUARDS, AND ANTI-SHORT CYCLE COMPRESSOR DELAY TIMER. PROVIDE MERV 13 FILTERS. PROVIDE 14" HIGH ROOF CURB. PROVIDE MODULATING ULTRA LOW-LEAK 100% ECONOMIZER WITH FAULT DETECTION & DIAGNOSTICS (FDD), ADJUSTABLE DRY BULB CONTROL. PROVIDE CSFM LISTED DUCT SMOKE DETECTOR IN THE SUPPLY AIR PLENUM TO SHUT-OFF UNIT UPON DETECTION OF SMOKE. INSTALL IN STRICT ACCORDANCE WITH CALIFORNIA MECHANICAL CODE, SECTION 608. COORDINATE WITH ELECTRICAL AND/OR FIRE ALARM SYSTEM CONTRACTOR FOR COMPATIBILITY AND INSTALLATION. REFRIGERANT TO BE GROUP A2L SAFETY CLASSIFICATION. REFRIGERATION SYSTEM IS HIGH-PROBABILITY CLASSIFICATION PER CMC CHAPTER 11. UNITS WITH GROUP A2L REFRIGERANT TO BE PROVIDED WITH THE FOLLOWING PER CMC CHAPTER 11: (1)NAMEPLATE AND LABELING DESIGNATING REFRIGERANT FLAMMABILITY. (2)FACTORY REFRIGERANT DETECTION SYSTEM WHICH, UPON DETECTION OF REFRIGERANT EXCEEDING LISTED CONCENTRATION WILL; 1) ACTIVATE SUPPLY FAN, AND 2) TURN OFF COMPRESSOR, HEATING ELEMENTS, AND ANY OTHER ELECTRICAL DEVICES EXCLUDING THE CONTROL POWER TRANSFORMERS, CONTROLS SYSTEMS AND THE SUPPLY FAN. SEE M-701 AND M-702 DRAWINGS FOR CONTROLS.
PHP	12	4	VERTICAL	460	3	18.7	23	25	0.64	DIRECT / 1811	1,600	0.6	SEE OSA SCHEDULE	DX	17 / 10.20	44,190 Btu/h	33,170 Btu/h	80	67	105	HP	7.2 / 3.80	31,800 Btu/h	27,800 Btu/h	4.90	30	MERV-13	875	CARRIER	50GEQM05A3M5	SEE ELECTRICAL DRAWINGS FOR UNIT DISCONNECT SWITCH AND CONVENIENCE OUTLET. UNIT(S) TO BE CONSTANT VOLUME. CONTRACTOR TO BALANCE UNITS UNDER ALL MODES OF OPERATION AT AIRFLOW(S) LISTED. UNITS WITH FACTORY/INTEGRAL CONTROL SEQUENCES WHICH INCLUDE FAN SPEED MODULATION TO BE ADJUSTED IN FIELD TO MAINTAIN CONSTANT VOLUME AIRFLOW. PROVIDE UNITS WITH: LOW AMBIENT KIT, CRANKCASE HEATER, HINGED ACCESS DOORS, LOUVERED CONDENSER COIL HAIL GUARDS, AND ANTI-SHORT CYCLE COMPRESSOR DELAY TIMER. PROVIDE MERV 13 FILTERS. PROVIDE 14" HIGH ROOF CURB. PROVIDE MODULATING ULTRA LOW-LEAK 100% ECONOMIZER WITH FAULT DETECTION & DIAGNOSTICS (FDD), ADJUSTABLE DRY BULB CONTROL. PROVIDE CSFM LISTED DUCT SMOKE DETECTOR IN THE SUPPLY AIR PLENUM TO SHUT-OFF UNIT UPON DETECTION OF SMOKE. INSTALL IN STRICT ACCORDANCE WITH CALIFORNIA MECHANICAL CODE, SECTION 608. COORDINATE WITH ELECTRICAL AND/OR FIRE ALARM SYSTEM CONTRACTOR FOR COMPATIBILITY AND INSTALLATION. REFRIGERANT TO BE GROUP A2L SAFETY CLASSIFICATION. REFRIGERATION SYSTEM IS HIGH-PROBABILITY CLASSIFICATION PER CMC CHAPTER 11. UNITS WITH GROUP A2L REFRIGERANT TO BE PROVIDED WITH THE FOLLOWING PER CMC CHAPTER 11: (1)NAMEPLATE AND LABELING DESIGNATING REFRIGERANT FLAMMABILITY. (2)FACTORY REFRIGERANT DETECTION SYSTEM WHICH, UPON DETECTION OF REFRIGERANT EXCEEDING LISTED CONCENTRATION WILL; 1) ACTIVATE SUPPLY FAN, AND 2) TURN OFF COMPRESSOR, HEATING ELEMENTS, AND ANY OTHER ELECTRICAL DEVICES EXCLUDING THE CONTROL POWER TRANSFORMERS, CONTROLS SYSTEMS AND THE SUPPLY FAN. SEE M-701 AND M-702 DRAWINGS FOR CONTROLS.
PHP	13	3	VERTICAL	460	3	15.2	19	20	0.39	DIRECT / 1753	1,200	0.6	SEE OSA SCHEDULE	DX	17 / 10.41	33,260 Btu/h	25,140 Btu/h	80	67	105	HP	8.0 / 3.90	22,600 Btu/h	19,800 Btu/h	4.90	30	MERV

GRAVITY VENTILATOR HOOD SCHEDULE

TYPE	MARK	HOOD TYPE	MOUNTING	CFM	THROAT AREA (SQ. FT.)	THROAT SIZE (IN.)	PRESSURE DROP (IN. WC.)	THROAT VELOCITY (FPM)	OPERATING WEIGHT	MANUFACTURER	MODEL	NOTES
IH	1	INTAKE	ROOF	1,750	5.44	28X28	0.018	321	125 lb	GREENHECK	FGI	PROVIDE FACTORY ROOF CURB. PROVIDE FACTORY BIRD SCREEN AND INSECT SCREEN.
RH	1	RELIEF	ROOF	2,000	6.25	30X30	0.017	320	150 lb	GREENHECK	FGR	PROVIDE FACTORY ROOF CURB. PROVIDE FACTORY BIRD SCREEN AND INSECT SCREEN.
RH	2	RELIEF	ROOF	2,000	6.25	30X30	0.017	320	150 lb	GREENHECK	FGR	PROVIDE FACTORY ROOF CURB. PROVIDE FACTORY BIRD SCREEN AND INSECT SCREEN.
RH	3	RELIEF	ROOF	2,000	6.25	30X30	0.017	320	150 lb	GREENHECK	FGR	PROVIDE FACTORY ROOF CURB. PROVIDE FACTORY BIRD SCREEN AND INSECT SCREEN.
RH	4	RELIEF	ROOF	2,000	6.25	30X30	0.017	320	150 lb	GREENHECK	FGR	PROVIDE FACTORY ROOF CURB. PROVIDE FACTORY BIRD SCREEN AND INSECT SCREEN.
RH	5	RELIEF	ROOF	3,600	10.56	38X40	0.02	341	200 lb	GREENHECK	FGR	PROVIDE FACTORY ROOF CURB. PROVIDE FACTORY BIRD SCREEN AND INSECT SCREEN.
RH	6	RELIEF	ROOF	2,400	7.11	32X32	0.02	338	150 lb	GREENHECK	FGR	PROVIDE FACTORY ROOF CURB. PROVIDE FACTORY BIRD SCREEN AND INSECT SCREEN.
RH	7	RELIEF	ROOF	1,200	3.5	18X28	0.02	343	115 lb	GREENHECK	FGR	PROVIDE FACTORY ROOF CURB. PROVIDE FACTORY BIRD SCREEN AND INSECT SCREEN.
RH	8	RELIEF	ROOF	2,000	6.25	30X30	0.017	320	150 lb	GREENHECK	FGR	PROVIDE FACTORY ROOF CURB. PROVIDE FACTORY BIRD SCREEN AND INSECT SCREEN.
RH	9	RELIEF	ROOF	1,600	4.67	24X28	0.02	343	125 lb	GREENHECK	FGR	PROVIDE FACTORY ROOF CURB. PROVIDE FACTORY BIRD SCREEN AND INSECT SCREEN.
RH	10	RELIEF	ROOF	1,600	4.67	24X28	0.02	343	125 lb	GREENHECK	FGR	PROVIDE FACTORY ROOF CURB. PROVIDE FACTORY BIRD SCREEN AND INSECT SCREEN.
RH	11	RELIEF	ROOF	4,000	11.67	40X42	0.02	343	225 lb	GREENHECK	FGR	PROVIDE FACTORY ROOF CURB. PROVIDE FACTORY BIRD SCREEN AND INSECT SCREEN.
RH	12	RELIEF	ROOF	2,000	6.25	30X30	0.017	320	150 lb	GREENHECK	FGR	PROVIDE FACTORY ROOF CURB. PROVIDE FACTORY BIRD SCREEN AND INSECT SCREEN.

OUTSIDE AIR SCHEDULE

SYSTEM NAME	DCV MIN. OSA CFM	OSA CFM	DEMAND CONTROL VENT. (Y / N)
PHP-1	140	175	Y
PHP-2	145	425	Y
PHP-3	175	450	Y
PHP-4	175	450	Y
PHP-5	115	225	Y
PHP-6	125	250	Y
PHP-7	100	100	N
PHP-8	105	105	N
PHP-9	55	170	Y
PHP-10	140	350	Y
PHP-11	140	350	Y
PHP-12	140	350	Y
PHP-13	100	100	N
PHP-14	245	825	Y
PHP-15	145	375	Y

* OSA TO BE PER 2022 BUILDING ENERGY EFFICIENCY STANDARDS TITLE 24, PART 6, SECTION 120.1, REQUIREMENTS.

* DEMAND VENTILATION CONTROLS SHALL MAINTAIN CO2 CONCENTRATIONS LESS THAN OR EQUAL TO 600 PPM PLUS THE OUTDOOR AIR CO2 CONCENTRATION IN ALL ROOMS WITH CO2 SENSORS.

AIR DISTRIBUTION SCHEDULE

SYMBOL	TYPE	DESCRIPTION
A	T-BAR CEILING SUPPLY	STEEL MODULAR CORE SQUARE CEILING DIFFUSER WITH ADJUSTABLE DISCHARGE PATTERN. FINISH: COLOR BY ARCHITECT. FRAME: LAY-IN T-BAR. TITUS MCD. REFER TO MECHANICAL PLANS FOR NECK SIZE, CFM, AIR DIFFUSION PATTER, AND FIRE DAMPER WHERE APPLICABLE.
B	T-BAR CEILING RETURN/ TRANSFER	STEEL LOUVERED RETURN GRILLE WITH HORIZONTAL BLADES AT 3/4" SPACING AND 35° DEFLECTION. FINISH: COLOR BY ARCHITECT. FRAME: LAY-IN T-BAR. TITUS 350RL. REFER TO MECHANICAL PLANS FOR NECK SIZE, CFM, AIR DIFFUSION PATTER, AND FIRE DAMPER WHERE APPLICABLE.
C	CEILING SUPPLY	STEEL LOUVERED FACE DIFFUSER WITH FRAME FOR SURFACE MOUNTING. TITUS MODEL MCD. REFER TO THE MECHANICAL PLANS FOR NECK SIZE, CFM, AIR DIFFUSION PATTERN, AND FIRE DAMPER (IF REQUIRED).
D	SURFACE CEILING RETURN/ TRANSFER	STEEL LOUVERED RETURN GRILLE WITH HORIZONTAL BLADES AT 3/4" SPACING AND 35° DEFLECTION. FINISH: COLOR BY ARCHITECT. FRAME: FLAT SURFACE. TITUS 350RL. REFER TO MECHANICAL PLANS FOR NECK SIZE, CFM, AIR DIFFUSION PATTER, AND FIRE DAMPER WHERE APPLICABLE.
E	SURFACE CEILING EXHAUST	ALUMINUM EGGCRATE RETURN GRILLE WITH 1/2"x1/2"x1/2" GRID. FINISH: COLOR BY ARCHITECT. FRAME: FLAT SURFACE. TITUS 50F. REFER TO MECHANICAL PLANS FOR NECK SIZE, CFM, AIR DIFFUSION PATTER, AND FIRE DAMPER WHERE APPLICABLE.
F	T-BAR CEILING EXHAUST	ALUMINUM EGGCRATE RETURN GRILLE WITH 1/2"x1/2"x1/2" GRID. FINISH: COLOR BY ARCHITECT. FRAME: FLAT SURFACE. TITUS 50F. REFER TO MECHANICAL PLANS FOR NECK SIZE, CFM, AIR DIFFUSION PATTER, AND FIRE DAMPER WHERE APPLICABLE.
G	SIDEWALL SUPPLY	STEEL LOUVERED SUPPLY GRILLE WITH DOUBLE DEFLECTION AND INDIVIDUALLY ADJUSTABLE BLADES AT 3/4" SPACING. FINISH: COLOR BY ARCHITECT. FRAME: FLAT SURFACE. TITUS 300RL. REFER TO MECHANICAL PLANS FOR NECK SIZE, CFM, AIR DIFFUSION PATTER, AND FIRE DAMPER WHERE APPLICABLE.
L	WALL LOUVER	6" DEEP ALUMINUM DRAINABLE BLADE STATIONARY WALL LOUVER. 52% FREE AREA. PROVIDE WALL FLANGE, MOUNTING ANGLES AND INSECT SCREEN. (MIN. 12"X16", MAX. 120"X120") FINISH: COLOR BY ARCHITECT. FRAME: WALL MOUNTING. GREENHECK ESD-603. REFER TO MECHANICAL PLANS FOR NECK SIZE, CFM, AIR DIFFUSION PATTER, AND FIRE DAMPER WHERE APPLICABLE.

EXHAUST FAN SCHEDULE

TYPE	MARK	FAN TYPE	MOUNTING	ELECTRICAL					FAN					SONES	CONTROL	OPERATING WEIGHT	MANUFACTURER	MODEL	NOTES
				VOLTAGE	PHASE	FLA	MCA	MOP	HP	DRIVE	FAN RPM	CFM	E.S.P. (IN. WC.)						
REF	1	CENTRIFUGAL	ROOF	115	1	2.85	4	15	0.25	DIRECT	1725	550	0.25	3.6	INTERLOCKED WITH PHP-6	75 lb	GREENHECK	G-100-VG	PROVIDE FACTORY PRE-WIRED DISCONNECT SWITCH WITH NEMA RATED ENCLOSURE FOR LOCATION. PROVIDE MOTOR THERMAL OVERLOAD PROTECTION. PROVIDE BACK DRAFT DAMPER. PROVIDE WITH PRE-WIRED FAN SPEED CONTROLLER. PROVIDE FACTORY ROOF CURB AND DAMPER TRAY FOR ROOF MOUNTED UNITS. FANS TO BE UL-762 LISTED. FANS TO BE AMCA LICENSED FOR SOUND AND AIR PERFORMANCE.
REF	2	CENTRIFUGAL	ROOF	115	1	2.85	4	15	0.25	DIRECT	857	100	0.25	2.6	LIGHT SWITCH	75 lb	GREENHECK	G-097-VG	PROVIDE FACTORY PRE-WIRED DISCONNECT SWITCH WITH NEMA RATED ENCLOSURE FOR LOCATION. PROVIDE MOTOR THERMAL OVERLOAD PROTECTION. PROVIDE BACK DRAFT DAMPER. PROVIDE WITH PRE-WIRED FAN SPEED CONTROLLER. PROVIDE FACTORY ROOF CURB AND DAMPER TRAY FOR ROOF MOUNTED UNITS. FANS TO BE UL-762 LISTED. FANS TO BE AMCA LICENSED FOR SOUND AND AIR PERFORMANCE.
REF	3	CENTRIFUGAL	ROOF	115	1	2.85	4	15	0.25	DIRECT	857	100	0.25	2.6	LIGHT SWITCH	75 lb	GREENHECK	G-097-VG	PROVIDE FACTORY PRE-WIRED DISCONNECT SWITCH WITH NEMA RATED ENCLOSURE FOR LOCATION. PROVIDE MOTOR THERMAL OVERLOAD PROTECTION. PROVIDE BACK DRAFT DAMPER. PROVIDE WITH PRE-WIRED FAN SPEED CONTROLLER. PROVIDE FACTORY ROOF CURB AND DAMPER TRAY FOR ROOF MOUNTED UNITS. FANS TO BE UL-762 LISTED. FANS TO BE AMCA LICENSED FOR SOUND AND AIR PERFORMANCE.
REF	4	CENTRIFUGAL	ROOF	115	1	2.85	4	15	0.25	DIRECT	863	800	0.25	5.3	LIGHT SWITCH	80 lb	GREENHECK	G-120-VG	PROVIDE FACTORY PRE-WIRED DISCONNECT SWITCH WITH NEMA RATED ENCLOSURE FOR LOCATION. PROVIDE MOTOR THERMAL OVERLOAD PROTECTION. PROVIDE BACK DRAFT DAMPER. PROVIDE WITH PRE-WIRED FAN SPEED CONTROLLER. PROVIDE FACTORY ROOF CURB AND DAMPER TRAY FOR ROOF MOUNTED UNITS. FANS TO BE UL-762 LISTED. FANS TO BE AMCA LICENSED FOR SOUND AND AIR PERFORMANCE.
REF	5	CENTRIFUGAL	ROOF	115	1	2.85	4	15	0.25	DIRECT	863	800	0.25	5.3	LIGHT SWITCH	80 lb	GREENHECK	G-120-VG	PROVIDE FACTORY PRE-WIRED DISCONNECT SWITCH WITH NEMA RATED ENCLOSURE FOR LOCATION. PROVIDE MOTOR THERMAL OVERLOAD PROTECTION. PROVIDE BACK DRAFT DAMPER. PROVIDE WITH PRE-WIRED FAN SPEED CONTROLLER. PROVIDE FACTORY ROOF CURB AND DAMPER TRAY FOR ROOF MOUNTED UNITS. FANS TO BE UL-762 LISTED. FANS TO BE AMCA LICENSED FOR SOUND AND AIR PERFORMANCE.
REF	6	CENTRIFUGAL	ROOF	115	1	1.30	2	15	0.07	DIRECT	1257	150	0.25	2.5	LIGHT SWITCH	50 lb	GREENHECK	G-070-VG	PROVIDE FACTORY PRE-WIRED DISCONNECT SWITCH WITH NEMA RATED ENCLOSURE FOR LOCATION. PROVIDE MOTOR THERMAL OVERLOAD PROTECTION. PROVIDE BACK DRAFT DAMPER. PROVIDE WITH PRE-WIRED FAN SPEED CONTROLLER. PROVIDE FACTORY ROOF CURB AND DAMPER TRAY FOR ROOF MOUNTED UNITS. FANS TO BE UL-762 LISTED. FANS TO BE AMCA LICENSED FOR SOUND AND AIR PERFORMANCE.
REF	7	CENTRIFUGAL	ROOF	115	1	1.38	2	15	0.10	DIRECT	1117	350	0.25	4.5	INTERLOCKED WITH PHP-13	60 lb	GREENHECK	G-090-VG	PROVIDE FACTORY PRE-WIRED DISCONNECT SWITCH WITH NEMA RATED ENCLOSURE FOR LOCATION. PROVIDE MOTOR THERMAL OVERLOAD PROTECTION. PROVIDE BACK DRAFT DAMPER. PROVIDE WITH PRE-WIRED FAN SPEED CONTROLLER. PROVIDE FACTORY ROOF CURB AND DAMPER TRAY FOR ROOF MOUNTED UNITS. FANS TO BE UL-762 LISTED. FANS TO BE AMCA LICENSED FOR SOUND AND AIR PERFORMANCE.
REF	8	CENTRIFUGAL	ROOF	115	1	2.85	4	15	0.25	DIRECT	857	100	0.25	2.6	LIGHT SWITCH	75 lb	GREENHECK	G-097-VG	PROVIDE FACTORY PRE-WIRED DISCONNECT SWITCH WITH NEMA RATED ENCLOSURE FOR LOCATION. PROVIDE MOTOR THERMAL OVERLOAD PROTECTION. PROVIDE BACK DRAFT DAMPER. PROVIDE WITH PRE-WIRED FAN SPEED CONTROLLER. PROVIDE FACTORY ROOF CURB AND DAMPER TRAY FOR ROOF MOUNTED UNITS. FANS TO BE UL-762 LISTED. FANS TO BE AMCA LICENSED FOR SOUND AND AIR PERFORMANCE.
REF	9	CENTRIFUGAL	ROOF	115	1	2.85	4	15	0.25	DIRECT	857	100	0.25	2.6	LIGHT SWITCH	75 lb	GREENHECK	G-097-VG	PROVIDE FACTORY PRE-WIRED DISCONNECT SWITCH WITH NEMA RATED ENCLOSURE FOR LOCATION. PROVIDE MOTOR THERMAL OVERLOAD PROTECTION. PROVIDE BACK DRAFT DAMPER. PROVIDE WITH PRE-WIRED FAN SPEED CONTROLLER. PROVIDE FACTORY ROOF CURB AND DAMPER TRAY FOR ROOF MOUNTED UNITS. FANS TO BE UL-762 LISTED. FANS TO BE AMCA LICENSED FOR SOUND AND AIR PERFORMANCE.
REF	10	CENTRIFUGAL	ROOF	115	1	2.85	4	15	0.25	DIRECT	880	425	0.25	4.6	TWIST TIMER	75 lb	GREENHECK	G-099-VG	PROVIDE FACTORY PRE-WIRED DISCONNECT SWITCH WITH NEMA RATED ENCLOSURE FOR LOCATION. PROVIDE MOTOR THERMAL OVERLOAD PROTECTION. PROVIDE BACK DRAFT DAMPER. PROVIDE WITH PRE-WIRED FAN SPEED CONTROLLER. PROVIDE FACTORY ROOF CURB AND DAMPER TRAY FOR ROOF MOUNTED UNITS. FANS TO BE UL-762 LISTED. FANS TO BE AMCA LICENSED FOR SOUND AND AIR PERFORMANCE.
REF	11	CENTRIFUGAL	ROOF	115	1	2.85	4	15	0.25	DIRECT	902	450	0.25	4.9	TWIST TIMER	75 lb	GREENHECK	G-099-VG	PROVIDE FACTORY PRE-WIRED DISCONNECT SWITCH WITH NEMA RATED ENCLOSURE FOR LOCATION. PROVIDE MOTOR THERMAL OVERLOAD PROTECTION. PROVIDE BACK DRAFT DAMPER. PROVIDE WITH PRE-WIRED FAN SPEED CONTROLLER. PROVIDE FACTORY ROOF CURB AND DAMPER TRAY FOR ROOF MOUNTED UNITS. FANS TO BE UL-762 LISTED. FANS TO BE AMCA LICENSED FOR SOUND AND AIR PERFORMANCE.

OUTDOOR UNIT SCHEDULE

TYPE	MARK	MOUNTING	ELECTRICAL				SEER2/ EER2	COOLING CAPACITY (R454B)	HEATING CAPACITY	SERVICE	OPERATING WEIGHT (LBS)	MANUFACTURER	MODEL	NOTES
			VOLTAGE	PHASE	MCA	MOCP								
ODU	1	ROOF	208	1	24	25	23.1 / 14	25,149 Btu/h	23,477 Btu/h	IDU-1	150	CARRIER	37MARAQ24AA3	SEE ELECTRICAL DRAWINGS FOR UNIT DISCONNECT SWITCH AND CONVENIENCE OUTLET. REFRIGERANT TO BE GROUP A2L SAFETY CLASSIFICATION. REFRIGERATION SYSTEM IS HIGH-PROBABILITY CLASSIFICATION PER CMC CHAPTER 11. UNITS WITH GROUP A2L REFRIGERANT TO BE PROVIDED WITH THE FOLLOWING PER CMC CHAPTER 11: 1.NAMEPLATE AND LABELING DESIGNATING REFRIGERANT FLAMMABILITY. 2.FACTORY REFRIGERANT DETECTION SYSTEM WHICH, UPON DETECTION OF REFRIGERANT EXCEEDING LISTED CONCENTRATION WILL: 1) ACTIVATE SUPPLY FAN, AND 2) TURN OFF COMPRESSOR, HEATING ELEMENTS, AND ANY OTHER ELECTRICAL DEVICES EXCLUDING THE CONTROL POWER TRANSFORMERS, CONTROLS SYSTEMS AND THE SUPPLY FAN
ODU	2	ROOF	208	1	24	25	23.1 / 14	25,149 Btu/h	23,477 Btu/h	IDU-2	150	CARRIER	37MARAQ24AA3	SEE ELECTRICAL DRAWINGS FOR UNIT DISCONNECT SWITCH AND CONVENIENCE OUTLET. REFRIGERANT TO BE GROUP A2L SAFETY CLASSIFICATION. REFRIGERATION SYSTEM IS HIGH-PROBABILITY CLASSIFICATION PER CMC CHAPTER 11. UNITS WITH GROUP A2L REFRIGERANT TO BE PROVIDED WITH THE FOLLOWING PER CMC CHAPTER 11: 1.NAMEPLATE AND LABELING DESIGNATING REFRIGERANT FLAMMABILITY. 2.FACTORY REFRIGERANT DETECTION SYSTEM WHICH, UPON DETECTION OF REFRIGERANT EXCEEDING LISTED CONCENTRATION WILL: 1) ACTIVATE SUPPLY FAN, AND 2) TURN OFF COMPRESSOR, HEATING ELEMENTS, AND ANY OTHER ELECTRICAL DEVICES EXCLUDING THE CONTROL POWER TRANSFORMERS, CONTROLS SYSTEMS AND THE SUPPLY FAN
ODU	3	ROOF	208	1	24	25	23.1 / 14	25,149 Btu/h	23,477 Btu/h	IDU-3	150	CARRIER	37MARAQ24AA3	SEE ELECTRICAL DRAWINGS FOR UNIT DISCONNECT SWITCH AND CONVENIENCE OUTLET. REFRIGERANT TO BE GROUP A2L SAFETY CLASSIFICATION. REFRIGERATION SYSTEM IS HIGH-PROBABILITY CLASSIFICATION PER CMC CHAPTER 11. UNITS WITH GROUP A2L REFRIGERANT TO BE PROVIDED WITH THE FOLLOWING PER CMC CHAPTER 11: 1.NAMEPLATE AND LABELING DESIGNATING REFRIGERANT FLAMMABILITY. 2.FACTORY REFRIGERANT DETECTION SYSTEM WHICH, UPON DETECTION OF REFRIGERANT EXCEEDING LISTED CONCENTRATION WILL: 1) ACTIVATE SUPPLY FAN, AND 2) TURN OFF COMPRESSOR, HEATING ELEMENTS, AND ANY OTHER ELECTRICAL DEVICES EXCLUDING THE CONTROL POWER TRANSFORMERS, CONTROLS SYSTEMS AND THE SUPPLY FAN
ODU	4	ROOF	208	1	24	25	23.1 / 14	25,149 Btu/h	23,477 Btu/h	IDU-4	150	CARRIER	37MARAQ24AA3	SEE ELECTRICAL DRAWINGS FOR UNIT DISCONNECT SWITCH AND CONVENIENCE OUTLET. REFRIGERANT TO BE GROUP A2L SAFETY CLASSIFICATION. REFRIGERATION SYSTEM IS HIGH-PROBABILITY CLASSIFICATION PER CMC CHAPTER 11. UNITS WITH GROUP A2L REFRIGERANT TO BE PROVIDED WITH THE FOLLOWING PER CMC CHAPTER 11: 1.NAMEPLATE AND LABELING DESIGNATING REFRIGERANT FLAMMABILITY. 2.FACTORY REFRIGERANT DETECTION SYSTEM WHICH, UPON DETECTION OF REFRIGERANT EXCEEDING LISTED CONCENTRATION WILL: 1) ACTIVATE SUPPLY FAN, AND 2) TURN OFF COMPRESSOR, HEATING ELEMENTS, AND ANY OTHER ELECTRICAL DEVICES EXCLUDING THE CONTROL POWER TRANSFORMERS, CONTROLS SYSTEMS AND THE SUPPLY FAN

INDOOR UNIT SCHEDULE

TYPE	MARK	MOUNTING TYPE	ELECTRICAL		DRIVE	CFM	OSA CFM	COOLING CAPACITY (R454B)	HEATING CAPACITY	SERVICE	OPERATING WEIGHT	MANUFACTURER	MODEL	NOTES
			VOLTAGE	PHASE										
IDU	1	WALL	208	1	DIRECT	800	0	25,149 Btu/h	23,477 Btu/h	ELECTRICAL ROOM 132	50	CARRIER	45MAHAQ24XA3	SEE ELECTRICAL DRAWINGS FOR UNIT DISCONNECT SWITCH. PROVIDE SAUERMANN SI-10 CONDENSATE PUMP(208V) AND DELTA PACK. CONDENSATE PUMP POWERED BY THE INDOOR UNIT. INDOOR UNIT POWERED FROM THE OUTDOOR UNIT. UNIT(S) TO BE CONSTANT VOLUME. CONTRACTOR TO BALANCE UNITS UNDER ALL MODES OF OPERATION AT AIRFLOW(S) LISTED. UNITS WITH FACTORY/INTEGRAL CONTROL SEQUENCES WHICH INCLUDE FAN SPEED MODULATION TO BE ADJUSTED IN FIELD TO MAINTAIN CONSTANT VOLUME AIRFLOW.
IDU	2	WALL	208	1	DIRECT	800	0	25,149 Btu/h	23,477 Btu/h	MDF 131	50	CARRIER	45MAHAQ24XA3	SEE ELECTRICAL DRAWINGS FOR UNIT DISCONNECT SWITCH. PROVIDE SAUERMANN SI-10 CONDENSATE PUMP(208V) AND DELTA PACK. CONDENSATE PUMP POWERED BY THE INDOOR UNIT. INDOOR UNIT POWERED FROM THE OUTDOOR UNIT. UNIT(S) TO BE CONSTANT VOLUME. CONTRACTOR TO BALANCE UNITS UNDER ALL MODES OF OPERATION AT AIRFLOW(S) LISTED. UNITS WITH FACTORY/INTEGRAL CONTROL SEQUENCES WHICH INCLUDE FAN SPEED MODULATION TO BE ADJUSTED IN FIELD TO MAINTAIN CONSTANT VOLUME AIRFLOW.
IDU	3	WALL	208	1	DIRECT	800	0	25,149 Btu/h	23,477 Btu/h	IDF ROOM 212	50	CARRIER	45MAHAQ24XA3	SEE ELECTRICAL DRAWINGS FOR UNIT DISCONNECT SWITCH. PROVIDE SAUERMANN SI-10 CONDENSATE PUMP(208V) AND DELTA PACK. CONDENSATE PUMP POWERED BY THE INDOOR UNIT. INDOOR UNIT POWERED FROM THE OUTDOOR UNIT. UNIT(S) TO BE CONSTANT VOLUME. CONTRACTOR TO BALANCE UNITS UNDER ALL MODES OF OPERATION AT AIRFLOW(S) LISTED. UNITS WITH FACTORY/INTEGRAL CONTROL SEQUENCES WHICH INCLUDE FAN SPEED MODULATION TO BE ADJUSTED IN FIELD TO MAINTAIN CONSTANT VOLUME AIRFLOW.
IDU	4	WALL	208	1	DIRECT	800	0	25,149 Btu/h	23,477 Btu/h	ELECTRICAL ROOM 213	50	CARRIER	45MAHAQ24XA3	SEE ELECTRICAL DRAWINGS FOR UNIT DISCONNECT SWITCH. PROVIDE SAUERMANN SI-10 CONDENSATE PUMP(208V) AND DELTA PACK. CONDENSATE PUMP POWERED BY THE INDOOR UNIT. INDOOR UNIT POWERED FROM THE OUTDOOR UNIT. UNIT(S) TO BE CONSTANT VOLUME. CONTRACTOR TO BALANCE UNITS UNDER ALL MODES OF OPERATION AT AIRFLOW(S) LISTED. UNITS WITH FACTORY/INTEGRAL CONTROL SEQUENCES WHICH INCLUDE FAN SPEED MODULATION TO BE ADJUSTED IN FIELD TO MAINTAIN CONSTANT VOLUME AIRFLOW.

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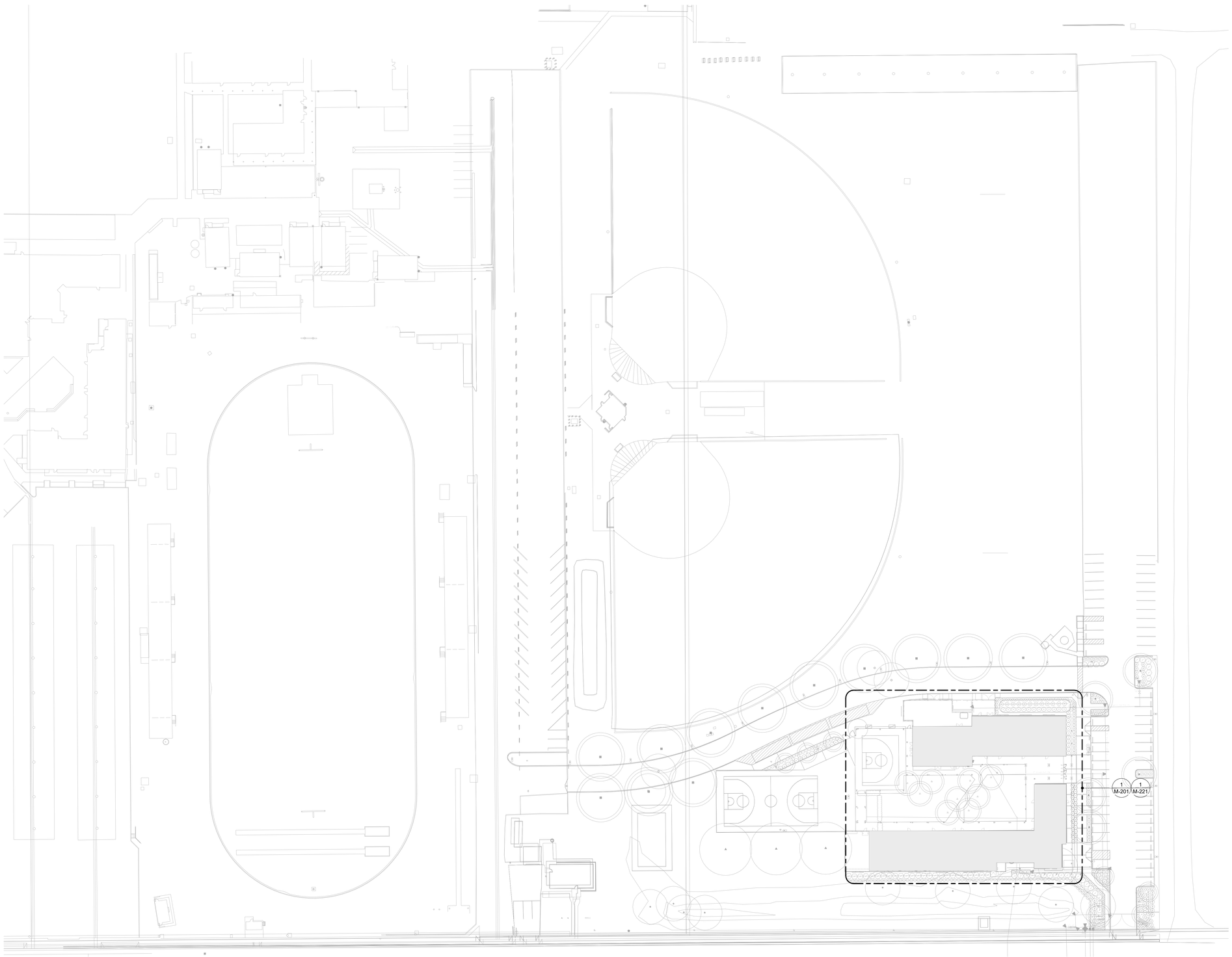
DRAWING SUBMITTAL SCHEDULE	
100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO: 22434-E-02

MECHANICAL SCHEDULES

M-003

4/6/2026 8:39:47 AM Autodesk Docs://KHSD_Central Valley Continuation HS/24-2161 Central Valley CHS_MEP_FP_T_R23.rvt



1 **MECHANICAL SITE PLAN**
SCALE: 1" = 40'-0"

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DRAWING SUBMITTAL SCHEDULE	
100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO:22434-E-02

MECHANICAL SITE PLAN

M-101

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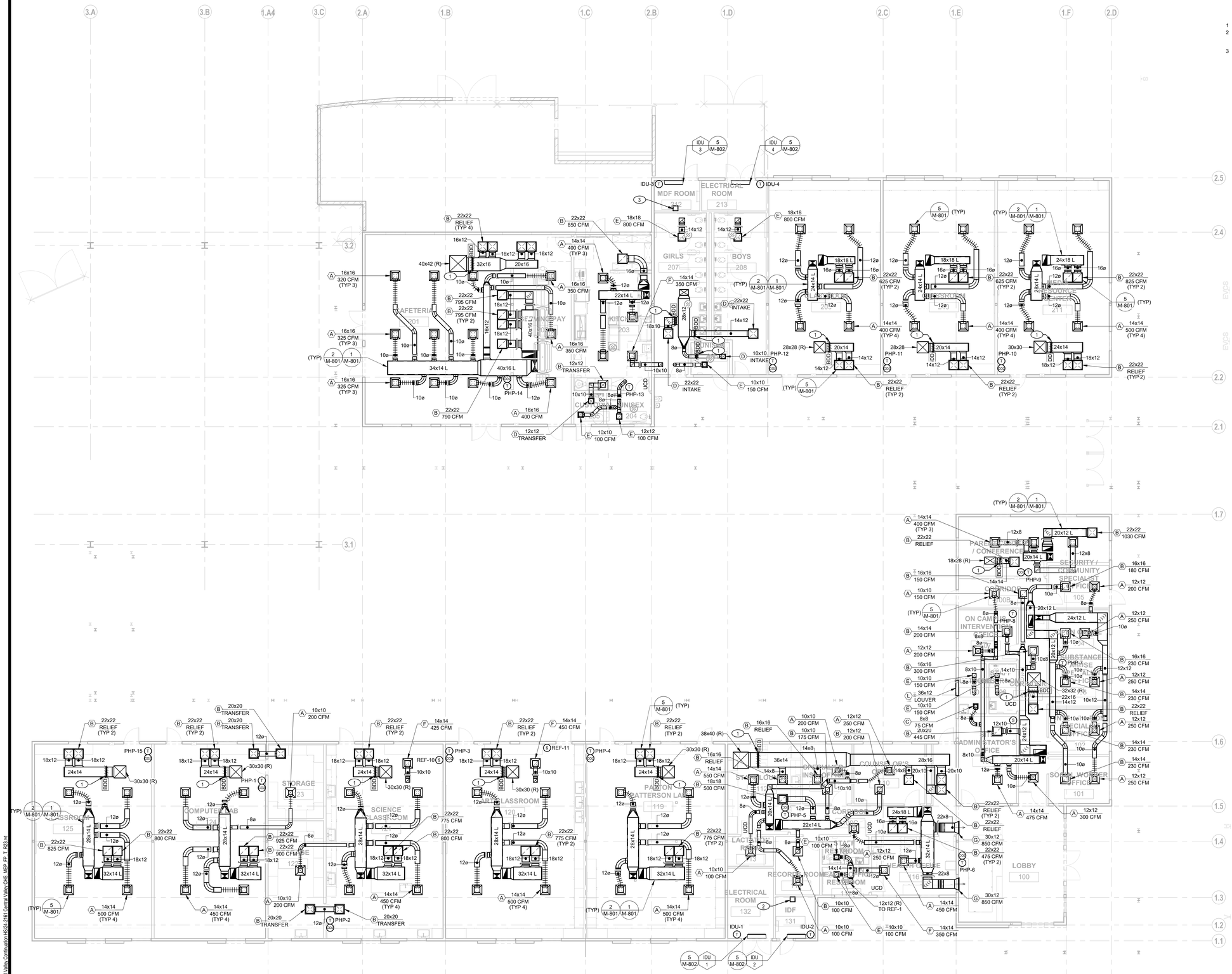
4/16/2026 9:09:53 AM

KEY NOTES

(#)

1 PROVIDE COUNTERBALANCED GRAVITY BACKDRAFT DAMPER
2 PELICAN WIRELESS CONTROLS WIRELESS GATEWAY CONNECTED TO MDF NETWORK SWITCH. SEE CONTROLS DRAWINGS FOR MORE INFORMATION. COORDINATE WITH LOW-VOLTAGE CONTRACTOR FOR CONNECTION.
3 PELICAN WIRELESS CONTROLS WIRELESS REPEATER. SEE CONTROLS DRAWINGS FOR MORE INFORMATION.



1 MECHANICAL FLOOR PLAN

SCALE: 1/8" = 1'-0"

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DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO: 22434-E-02

MECHANICAL - FLOOR PLAN

M-201

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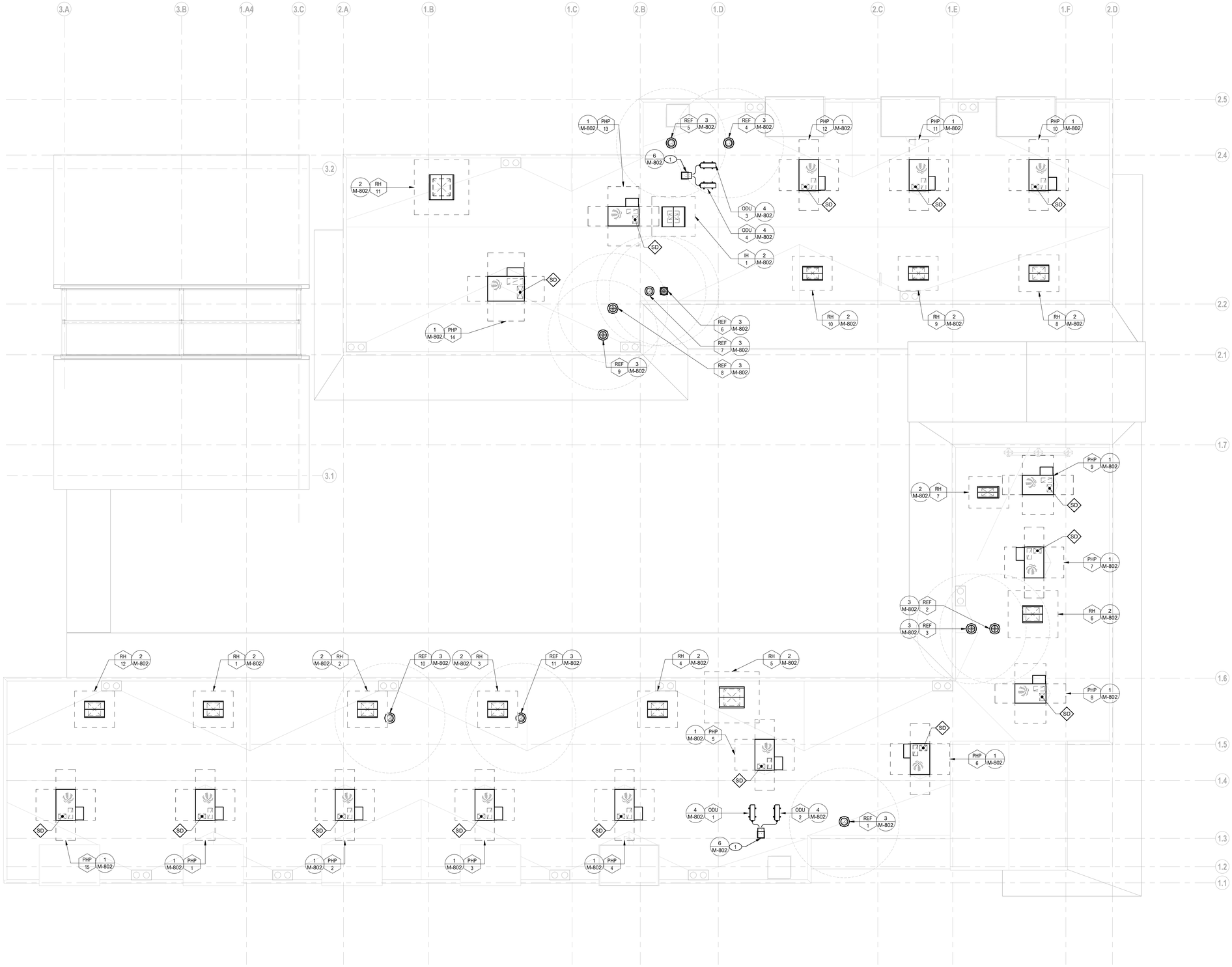
KEY NOTES

(#)

1 REFRIGERANT PIPE PENETRATION DOGHOUSE. SEE DETAIL 6/M-802.



1 MECHANICAL ROOF PLAN

SCALE: 1/8" = 1'-0"

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100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

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MECHANICAL - ROOF PLAN

M-221

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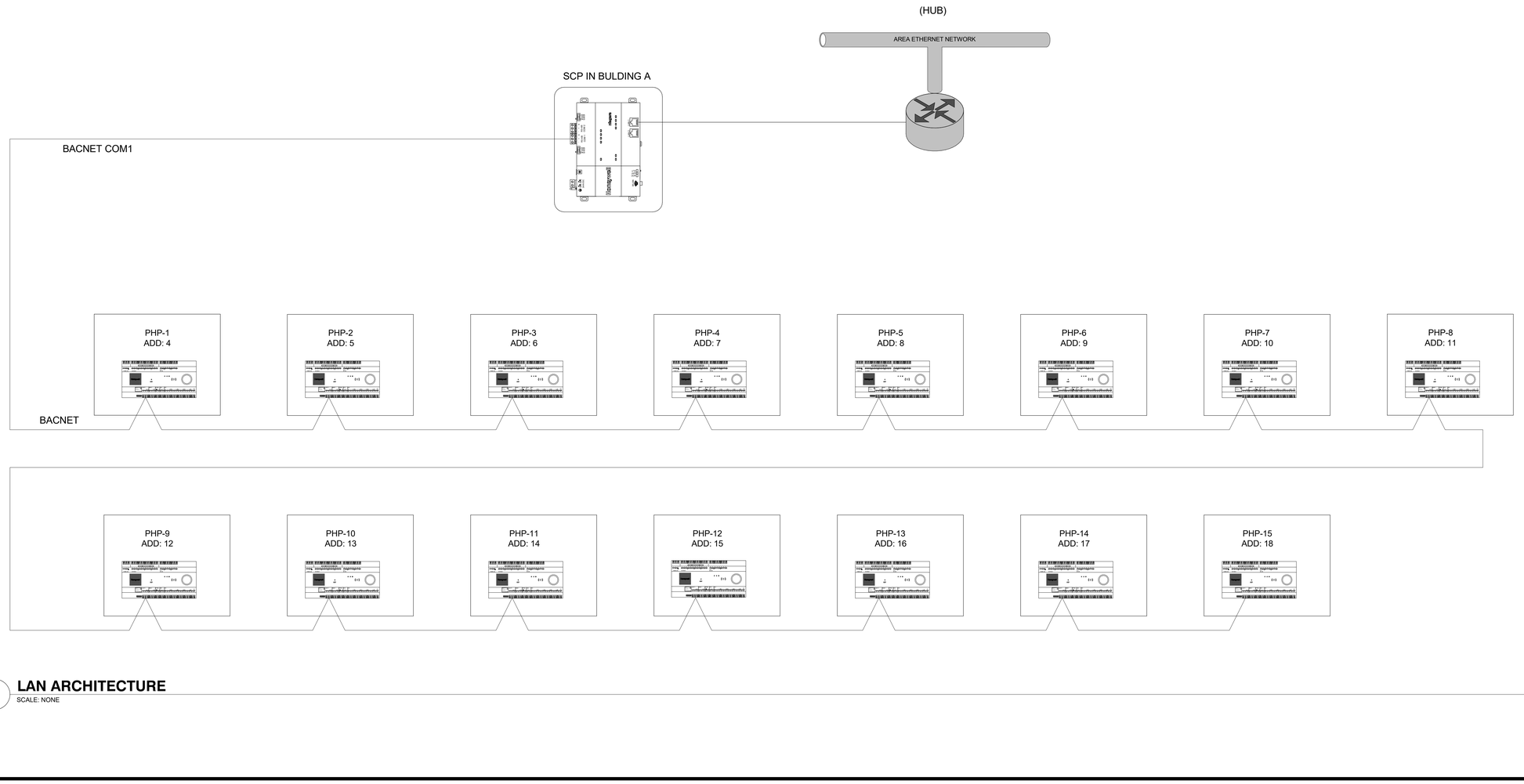

1 LAN ARCHITECTURE

SCALE: NONE

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MECHANICAL CONTROLS

M-701

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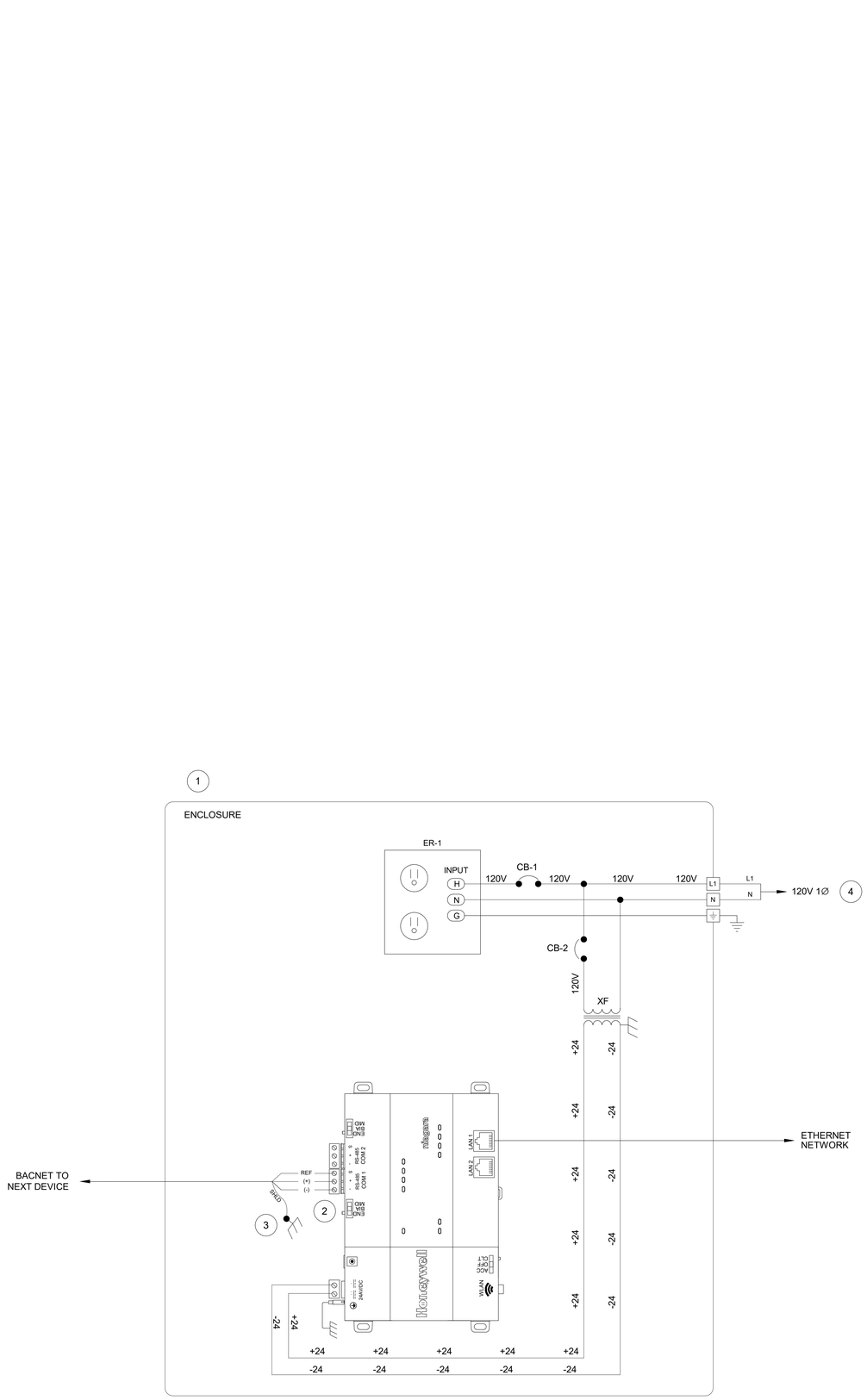
4/1/2026 9:29:24 AM

	Panel Components		
PART NUMBER	TAG	QTY	DESCRIPTION
HON HON-9000		1	HON-9000-UNBRANDED USD CARD NOT INCLUDED
HON HON-9000-BRAND		1	HON-9000 BRANDING FOR BULK HON-9000
HON HON-9000-USD		1	HON-9000 USD CARD
HON NC-9025		1	HON-9000 25 DEVICE
HON SMA-9025-1YR		1	HON-9000 1 YEAR MAINTENANCE
HAM N1A20167	ENC	1	NEMA 1 ENCLOSURE

Sheet Notes

1. CONTROL PANEL FABRICATED BY TOTAL CONTROL CONTACT DEVEN PUTNAM AT 559-291-1000
2. LINE VOLTAGE & CONDUIT BY DIVISION 16.
3. JACE SELECTOR SWITCH NEED TO BE SET TO THE "END" POSITION
4. RS-485 COMM BUS SHIELD TO BE GROUNDED AT THE SCP PANEL ONLY



1 SUPERVISORY CONTROLLER SCHEMATIC DETAIL
SCALE: NONE

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DWG V3	04/28/2026

PROJECT NO: 22434-E-02

MECHANICAL CONTROLS

M-702

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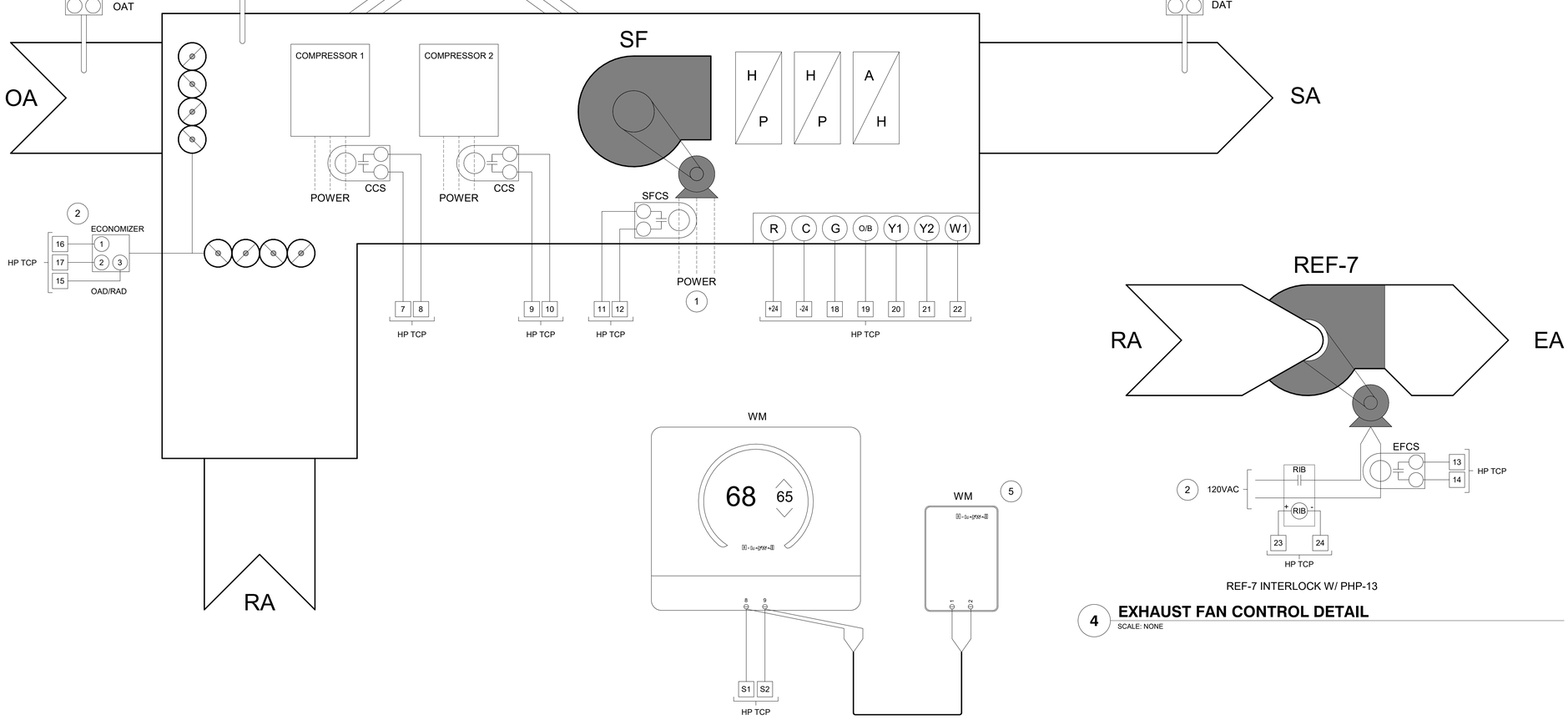
4/6/2026 9:09:25 AM

Control Components			
PART NUMBER	TAG	QTY	DESCRIPTION
HON C7041B2005	DAT,MAT	30	DUCT TEMPERATURE SENSOR
HON C7041F2001	OAT	1	DUCT TEMPERATURE SENSOR
HON TR100-THC-G	WM	15	WALL MODULE W/ TEMP,HUMMIDITY & CO2
FUN RIBXGTA	CCS	2	CURRENT SENSOR
FUN RIBXGTA-ECM	SFCS	15	CURRENT SENSOR
FUN RIBU1C	RIB	2	24VAC RELAY IN A BOX
ACI A/20K-SP	WP	4	20K WALL PLATE SENSOR
HON TR40	WM	1	WALL MODULE SYLK ENABLE

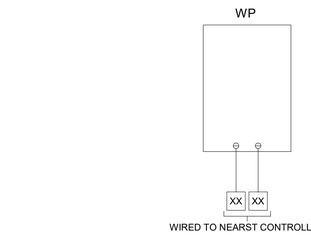
Sheet Notes

1. LINE VOLTAGE & CONDUIT BY DIVISION 16.
2. PROVIDED BY OTHERS.
3. CONTROL COMPONENTS PROVIDED BY TOTAL CONTROL CONTACT DEVEN PUTNAM AT 559-291-1000.
4. OAT GLOBALLY SHARED SOFTWARE POINT
5. ONLY ON PHP-8.



TYPICAL OF 15:

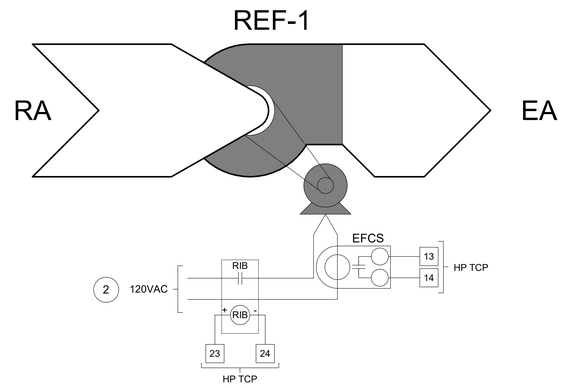
1 HEAT PUMP UNIT CONTROL DETAIL
SCALE: NONE



WIRED TO NEARST CONTROLLER

TYPICAL OF 4: IDU/ODU-1, IDU/ODU-2, IDU/ODU-3, IDO/ODU-4

2 WALL PLATE SENSOR DETAIL
SCALE: NONE



REF-1 INTERLOCK W/ PHP-6

3 EXHAUST FAN CONTROL DETAIL
SCALE: NONE

REF-7 INTERLOCK W/ PHP-13

4 EXHAUST FAN CONTROL DETAIL
SCALE: NONE

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KERN HIGH SCHOOL DISTRICT
5801 SUNDALE AVE.
BAKERSFIELD, CA 93309

CENTRAL VALLEY
CONTINUATION HIGH SCHOOL CAMPUS
526 MANNEL AVENUE
SHAFTER, CA 93263

DRAWING SUBMITTAL SCHEDULE	
100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO:22434-E-02

MECHANICAL CONTROLS

M-703

Autodesk Docs://KUSD - Central Valley Continuation HS\24-2161 Central Valley CHS_MEP_FP_T_R23.rvt
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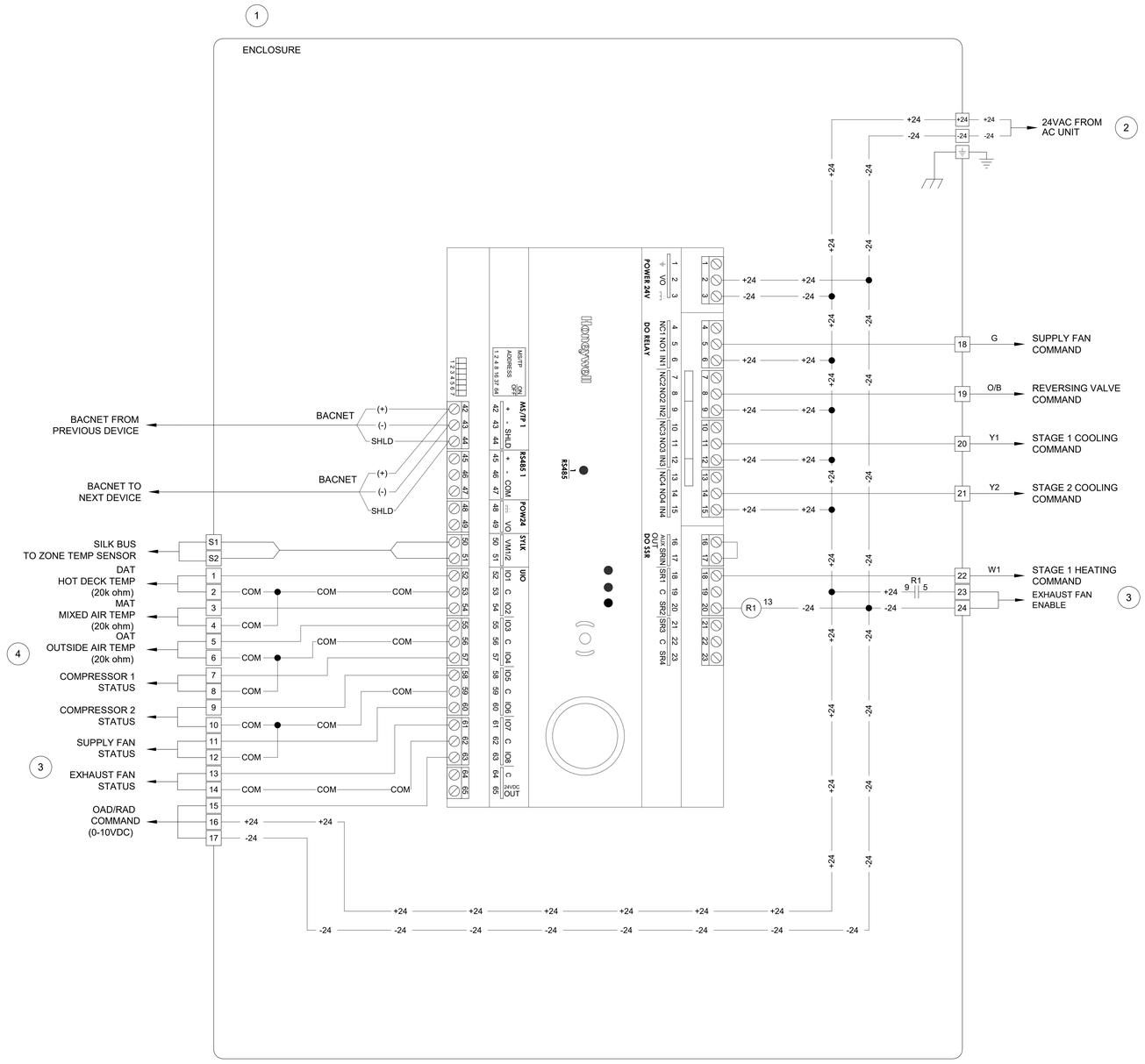

TYPICAL OF 15:

1 HEAT PUMP TCP SCHEMATIC DETAIL

SCALE: NONE

	Panel Components		
PART NUMBER	TAG	QTY	DESCRIPTION
HON UN-RL0844MS24NMC	-	15	UNITARY CONTROLLER
HAM -	ENC	15	ENCLOSURE
HAM -	ENC	15	SOLID PANEL BACKPLATE
RLY 782XBXM4L-24A	R1	15	2-POLE 24VAC RELAY W/ LED
RLY 70-782D8-1A	R1	15	2-POLE RELAY BASE

Sheet Notes

1. CONTROL PANEL FABRICATED BY TOTAL CONTROL CONTACT DEVEN PUTNAM 559-291-1000
2. LINE VOLTAGE & CONDUIT BY DIVISION 16.
3. ONLY ON PHP-6 & PHP-13. ALL OTHERS SPARES
4. ONLY ON PHP-1. ALL OTHERS SPARES

Heat Pump

A thermostat shall be mounted in the space.
Occupied Cool Setpoint: 73°F (adjustable)
Occupied Heat Setpoint: 68°F (adjustable)
Warm/Cool Adjustment: +3°/-3°
Un-occupied Cool Setpoint: 85°F (adjustable)
Un-occupied Heat Setpoint: 55°F (adjustable)

Un-Occupied Mode: Supervisory front end system shall command the unit to Unoccupied mode. In occupied mode the unit shall not sequence fan, heating and cooling until the Unoccupied set points are reached. Unit shall cycle on if any of the unoccupied set points are reached and then de-energize. While in unoccupied mode, if there is loss of communication or power, the equipment shall default back to "ON".

Occupied Mode: The unit shall receive an occupied command from the Honeywell FX Supervisory controller. The supply fan will be enabled. A current sensor on the supply fan shall prove supply fan run status. When the run status is proven ON, the following modes shall be allowed to happen.

Cooling Mode : When outside air is above the OA cooling lockout setpoint (65° F adjustable) and there is a call for cooling, the compressor shall stage on in order to satisfy the condition. Compressor shall be monitored with a current sensor to prove that the compressor is running.

Heating Mode: When outside air is below the OA heating lockout setpoint (60° F adjustable) and there is a call for heating the reversing valve shall stage on in order to satisfy the condition.

Demand Ventilation Mode - If Co2 level rises above 800ppm (adjustable from graphics), the Economizer dampers shall start modulating open from minimum position, in order to satisfy condition. At 1000ppm, the economizer shall be at 100% open. If CO2 sensor reads below 200ppm or above 1600ppm (adjustable) the economizer dampers shall go to minimum ventilation position and an alert will be generated for unreliable CO2 sensor reading.

Economizer Mode: When the OA temperature is below the economizer switchover setpoint (68° adjustable) and there is a call for cooling, the outside air damper shall modulate open. If the outside air damper is commanded to 100% and the condition has not been satisfied, if the outside air temperature is above the OA cooling lockout setpoint, then mechanical cooling shall be allowed to stage on. Once the condition is satisfied, cooling shall stage off and the OA damper shall modulate accordingly. Actuator feedback shall be wired back to the PCG controller. If the feedback position does not match the command (+/- 20%) then an alert shall be generated for a stuck damper.

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REGISTERED PROFESSIONAL ENGINEER
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MECHANICAL CONTROLS

M-704

Autodesk Docs://KVSD_Central Valley Continuation HS/24.2161 Central Valley CHS_MEP_FP_T_R23.rvt
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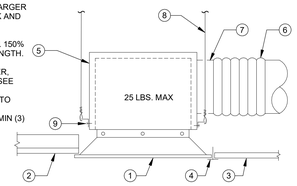
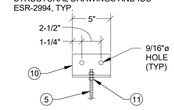
1. GRILLE/DIFFUSER.
2. HARD CEILING.
3. T-BAR CEILING.
4. ATTACH DIFFUSER TO T-BAR WITH # 10 SELF-TAPPING SM SCREWS, MIN. 2 PER SIDE.
5. LINED SM PLENUM SIZED 2" LARGER THAN DIFFUSER/GRILLE NECK AND 2" LARGER THAN DUCT CONNECTION.
6. ACOUSTICAL FLEX DUCT, MIN. 150% RADIUS ELBOW, MAX. 7 FT LENGTH.
7. SPIN-IN COLLAR.
8. 12 GA. WIRE AT EACH CORNER, ATTACHED TO STRUCTURE , SEE DETAIL 1/M-801.
9. 2"x2"x16 GA. ANGLE, SECURE TO PLENUM BOX WITH #12 SELF TAPPING SM SCREWS 8" O.C MIN (3) PER ANGLE.

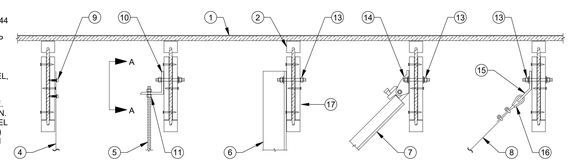


DIFFUSER / GRILLE MOUNTING — NTS — 5

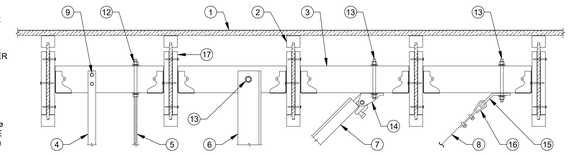
1. FLOOR/ROOF, SEE STRUCTURAL DRAWINGS.
2. FLOOR/ROOF FRAMING, SEE STRUCTURAL DRAWINGS.
3. 4x4 BLOCKING BETWEEN JOISTS W/ U44 HANGERS AT EACH END, TYP.
4. 1" x 20 GA. GALV. SHEET METAL STRAP
5. 3/8"ø THREADED ROD, B-LINE ATR OR EQUAL.
6. 3"x3"x1/4" GALVANIZED STEEL ANGLE.
7. 1-5/8"x1-5/8"x12 GA UNISTRUT CHANNEL, B-LINE B22 OR EQUAL.
8. 3/32"ø PRE-STRETCHED GALVANIZED AIRCRAFT CABLE, 7x19 STRAND CORE.
9. (2) #12 x 2" WOOD SCREWS, 2" O.C. MIN.
10. 3"x3"x1/4" x 5" LONG GALVANIZED STEEL ANGLE, ATTACH TO FRAMING WITH (2) 1/2"ø BOLTS OR THREADED ROD WITH NUTS AND WASHER.
11. NUT, TOP AND BOTTOM.
12. NUT AND WASHER, TOP AND BOTTOM.
13. 3/8"ø THREADED ROD THROUGH SUPPORT MEMBER WITH NUT AND WASHER EA END, 6" MIN TO END OF JOIST.
14. UNIVERSAL SWAY BRACE UPPER ATTACHMENT, B-LINE TOLCO FIG. 980 OR EQUAL.
15. 2"x3"x1/4" x 1-5/8" WIDE GALVANIZED STEEL ANGLE, B-LINE MODEL B154 OR EQUAL.
16. CABLE THIMBLE AND CABLE CLIPS.
17. 2x WEB STIFFENER FILLER BLOCKING, BOTH SIDES OF I-JOIST, INSTALL FILLER BLOCKING AND NAILS PER STRUCTURAL DRAWINGS AND ICC ESR-2994, TYP.



VIEW A-A



AT FRAMING MEMBERS

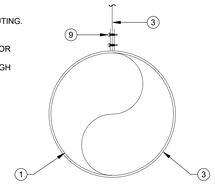


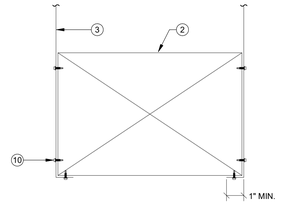
BETWEEN FRAMING MEMBERS

HANGER UPPER ATTACHMENTS — NTS — 1

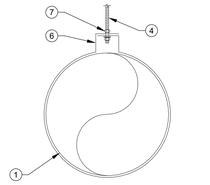
1. ROUND DUCT, SEE PLAN FOR SIZE AND ROUTING.
2. RECTANGULAR DUCT, SEE PLAN FOR SIZE AND ROUTING.
3. 1" x 20 GA. GALV. SHEET METAL STRAP.
4. 3/8"ø THREADED ROD, B-LINE ATR OR EQUAL.
5. 1-5/8"x1-5/8"x12 GA UNISTRUT CHANNEL, B-LINE B22 OR EQUAL.
6. 1" x 20 GA GALV. SHEET METAL STRAP WITH 3"x2" HIGH FLANGE.
7. NUT AND WASHER, TOP AND BOTTOM.
8. NUT, TOP AND BOTTOM WITH UNISTRUT SQUARE WASHER, B-LINE MODEL B2012N OR EQUAL.
9. (2) #10 TEK SCREWS.
10. (3) #10 TEK SCREWS, EA SIDE.
11. (2) #10 TEK SCREWS, EA SIDE.

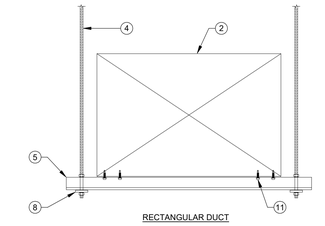
NOTES:
A. HANGER SPACING TO BE AT MAXIMUM 8FT O.C.
B. DUCTWORK WITH A CROSS-SECTIONAL AREA OF LESS THAN 6 SQUARE FEET AND WEIGHT OF 20 LB/FT OR LESS DO NOT REQUIRE SEISMIC BRACING PER CBC SECTION 1617A.1.25 AND ASCE 7, SECTION 13.6.6 (EXCEPTION 2).
C. PROVISIONS SHALL BE MADE TO AVOID IMPACT WITH OTHER MECHANICAL COMPONENTS OR STRUCTURAL ELEMENTS PER DSA IR 16-13.
   a. PER IR-13-3.5 AND DETAIL B-1.0 IN APPENDIX B: THE SEPARATION DISTANCE BETWEEN THE UNBRACED COMPONENT AND BRACED ELEMENTS OR COMPONENTS SHALL BE BASED ON A MINIMUM HORIZONTAL DISTANCE OF 12 INCHES. WHEN ADJACENT COMPONENTS ARE ALSO UNBRACED, THIS SEPARATION SHALL BE INCREASED TO A MINIMUM OF 18 INCHES.





ROUND DUCT





RECTANGULAR DUCT

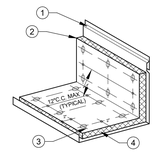
DUCT HANGERS (<6 SF & <=20 PLF) — NTS — 2

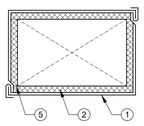
DIMENSION OF LONGEST SIDE, INCHES	SHEET METAL GAGE (ALL FOUR SIDES)	TRANSVERSE REINFORCING (1)				
		MINIMUM REINFORCING ANGLE SIZE AND MAXIMUM LONGITUDINAL SPACING BETWEEN TRANSVERSE JOINTS &/OR INTERMEDIATE REINFORCING	AT JOINTS			
			MIN. HT. IN.	DRIVE SLIP / PLAIN S SLIP	HEMMED S SLIP	ALTER'NT BAR SLIP	REIN-FROCED BAR SLIP
				RECOM-MENDED GAGE	RECOM-MENDED GAGE	RECOM-MENDED GAGE	RECOM-MENDED GAGE
UP THRU 12	26	NONE REQUIRED	1	26	26	24	24
13 - 18	24	NONE REQUIRED	1	24	24	24	24
19 - 30	24	1" x 1" x 1/8" @ 60 IN.	1		24	24	24
31 - 42	22	1" x 1" x 1/8" @ 60 IN.	1			22	22

(1) TRANSVERSE REINFORCING SIZE IS DETERMINED BY DIMENSION OF SIDE TO WHICH ANGLE IS APPLIED.

DUCT CONSTRUCTION STANDARDS — NTS — 3

1. GALVANIZED SHEET METAL DUCT.
2. 1" THICK ACOUSTIC DUCT LINER, LINER TO BE ADHERED TO DUCT. w/ 100% ADHESIVE (MIRACLE PF96)
3. NOT MORE THAN 2" FROM LEDGE OF DUCT LINER.
4. ALL ENDS OF LINER TO BE COATED WITH ADHESIVE. (MIRACLE PF96). ENDS OF LINER SHALL BE BUTTED FIRMLY TOGETHER.
5. TOP AND BOTTOM SECTIONS OF LINER SHALL OVERLAP THE SIDES.





METAL FASTENERS:
OMARK INSUL-PINS. DURA DYNE FASTENERS OR GRIP NAILS, GRIP NAILS SHALL BE INSULATED BY " GRIP NAIL AIR-HAMMER" OR BY AUTOMATIC FASTENER EQUIPMENT.

ACOUSTIC LINED DUCTS — NTS — 4

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REGISTERED PROFESSIONAL ENGINEER
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DWG V3	04/28/2026

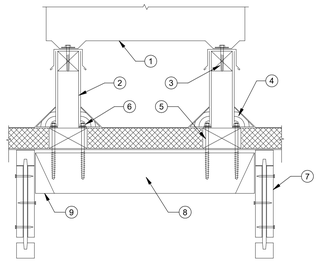
PROJECT NO:22434-E-02

MECHANICAL DETAILS

M-801

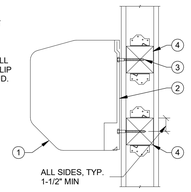
4/28/2026 9:40:13 AM Autodesk Docs://KNDS_Central Valley Continuation HS/24-2161 Central Valley CHS_MEP_FP_T_R23.rvt

1. OUTDOOR CONDENSING UNIT, SEE SCHEDULE.
2. "PATE" #ESNJ-2 PREFAB 18 GA GALV. SHEET METAL CURB, 24" LONG WITH WOOD NAILER AND COUNTER FLASHING, COORDINATE CURB HEIGHT WITH ROOFING CONTRACTOR (TYP 2).
3. 3/8"ø LAG SCREW INTO WOOD NAILER MIN (2) PER SIDE, AT CORNERS (FOUR TOTAL), SILICONE SEAL PENETRATION WATERTIGHT, MIN 2-3/4" PENETRATION INTO NAILER. CENTER SCREW ON WIDTH OF NAILER.
4. CANT STRIP, TYP.
5. PRESSURE TREATED DOUG FIR LEVELING BLOCK, MIN. 2" HIGH. TOP FLAT/LEVEL.
6. 3/8"Ø LAG SCREWS, (2) PER LONG SIDE OF CURBS EACH SIDE, MIN 3" PENETRATION INTO BLOCKING. CENTER LAG SCREWS OVER WIDTH OF BLOCKING, MIN 4d EDGE DISTANCE FOR ALL SCREWS.
7. ROOF FRAMING, SEE STRUCTURAL.
8. 4X6 BLOCKING BETWEEN JOISTS. 6" MAX FROM END OF CURB, SEE STRUCTURAL. CENTER LAG SCREWS OVER WIDTH OF BLOCKING.
9. SIMPSON U46 HANGER AT EACH END (TYP).



OUTDOOR UNIT MOUNTING — NTS — 4

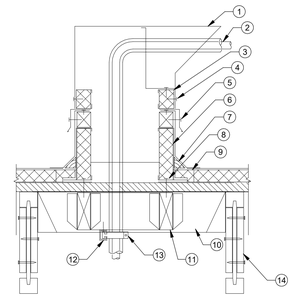
1. INDOOR UNIT, SEE SCHEDULE.
2. FACTORY MOUNTING BRACKET SUPPLIED WITH INDOOR UNIT.
3. 3/8"x3" LAG SCREW, MIN OF 4 SCREWS. (TYP)
4. 4x4 BLOCKING, SECURE TO WALL FRAMING WITH A34 FRAMING CLIP AT TOP & BOTTOM OF EACH END.



NOTE:
A. INSTALL INDOOR UNIT PER MANUFACTURER'S RECOMMENDATIONS.
B. SECURE INDOOR UNIT TO WALL BRACKET WITH MANUFACTURERS MOUNTING CLIPS.
C. MAX UNIT WEIGHT OF 50 LBS.

INDOOR UNIT MOUNTING (WALL MOUNT) — NTS — 5

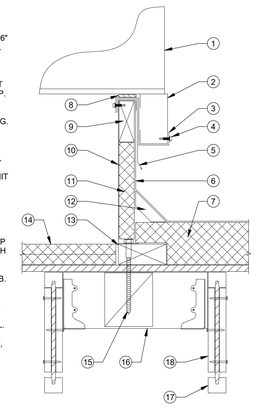
1. "PATE" MODEL PHA-2 24"x12" PIPE HOOD ASSEMBLY WITH REMOVABLE TOP COVER, FACE PLATE AND (3) SIDED BODY. REQUIRES ASSEMBLY AFTER INSTALLATION OF PIPING. CAULK ALL JOINTS/SEAMS WITH FLEXIBLE WATER PROOF SEALANT. FASTEN SEAMS WITH #12 GALV. SMS AT 6" O.C.
2. REFRIGERANT PIPING PER VRF MANUFACTURER.
3. MOUNTING BASE FURNISHED WITH PIPE HOOD ASSEMBLY.
4. SECURE HOOD TO MOUNTING BASE WITH 1/4" GALV. HEX HEAD SMS AT 12" O.C., MIN. (2) PER SIDE.
5. SECURE MOUNTING BASE TO CURB WITH 1/4" LAG SCREWS 12" O.C., MIN. (2) PER SIDE.
6. "PATE" MODEL PC-2 INSULATED ROOF CURB, 24"x12" x 12" HIGH.
7. CANT STRIP.
8. SECURE ROOF CURB TO BLOCKING WITH 1/4" LAG SCREWS WITH 2" MIN PENETRATION, 12" O.C., MIN (2) PER SIDE.
9. INFILL WITH (E) ROOF INSULATION REMOVED FOR ADDITION OF CURB.
10. 2x6 BLOCKING BETWEEN STRUCTURE WITH "SIMPSON" HU46 HANGER EACH END.
11. 2x6 BLOCKING BETWEEN (N) BLOCKING WITH "SIMPSON" HU46 HANGER EACH END.
12. 1-5/8" "B-LINE" B22 CHANNEL SECURE TO BOTTOM OF BLOCKING WITH (2) 1/4" LAG SCREWS, MIN 2" PENETRATION.
13. "B-LINE" B1999 PIPE CLAMP WITH ISOLATOR CUSHION.
14. I-JOIST, SEE STRUCTURAL FOR ATTACHMENT OF BLOCKING TO STRUCTURE.



NOTE:
A. PIPE PENETRATION THROUGH FACE PLATE WILL NEED TO BE FIELD CUT

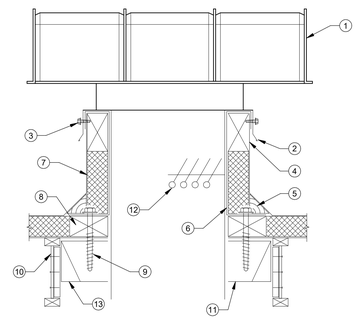
REFRIGERANT PIPE PENETRATION AT ROOF — NTS — 6

1. PACKAGE ROOFTOP UNIT, SEE SCHEDULES.
2. UNIT BASE RAIL.
3. HOLD DOWN S-CLIP, 16 GA STEEL, 6" WIDE, MIN. (2) ON EA SIDE OF UNIT.
4. SECURE HOLD DOWNS TO UNIT BASE RAIL AND CURB WITH TOTAL (4) #12 X 3/4" SELF DRILLING TEK SCREWS. (2) TEK SCREWS TO UNIT AND (2) TEK SCREWS TO CURB TYP.
5. 26 GA GALV. SM COUNTERFLASHING.
6. ROOFING UP AND UNDER FLASHING.
7. ROOF INSULATION FORMED TO MEET CURB WHERE APPLICABLE, SEE ARCHITECTURAL DRAWINGS.
8. 1/2" THICK NEOPRENE GASKET ALL AROUND CURB.
9. WOOD NAILER PROVIDED WITH UNIT CURB.
10. UNIT CURB, SEE SCHEDULES.
11. RIGID INSULATION, FILL CURB CAVITY UP TO WOOD NAILER.
12. CANT STRIP.
13. PRESSURE TREATED DOUG FIR LEVELING BLOCK, MIN. 2" HIGH. TOP FLAT/LEVEL (MAY BE OMITTED WITH USE OF PRE-SLOPED CURB).
14. 2-LAYERS 1" THICK INSULATION BOARD, COVER ROOF INSIDE CURB.
15. ATTACHMENT PER STRUCTURAL DRAWINGS.
16. BLOCKING, SEE STRUCTURAL (4X6 MIN)
17. ROOF FRAMING, SEE STRUCTURAL.
18. 2X WEB STIFFENER FILLER BLOCKING, BOTH SIDES OF I-JOIST, INSTALL FILLER BLOCKING AND NAILS PER STRUCTURAL AND ICC ESR-2994.



NOTES:
A. COORDINATE HOLD DOWN S-CLIP QUANTITY AND LOCATIONS PRIOR TO INSTALLING UNIT.

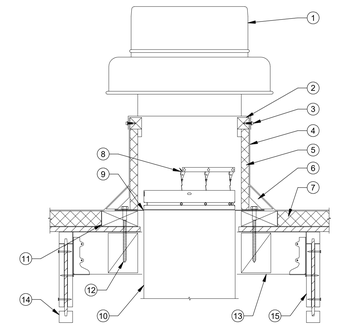
AC MOUNTING — NTS — 1



1. ROOF MOUNTED RELIEF/INTAKE HOOD.
2. 26 GA GALV. SM COUNTER FLASHING.
3. SECURE FAN TO CURB WITH #12x1-1/2" SM SCREWS, 4 PER SIDE. MIN 2" PENETRATION INTO NAILER.
4. ROOFING UP AND UNDER FLASHING.
5. CANT STRIP.
6. EXHAUST FAN CURB BY FAN MFR.
7. RIGID INSULATION ALL AROUND.
8. PRESSURE TREATED DOUG FIR LEVELING BLOCK, MIN. 2" HIGH. TOP FLAT/LEVEL.
9. 1/2"Ø LAG SCREW AT 24" O.C., CENTERED OVER BLOCKING, MIN 2 SCREWS EACH SIDE AND 8" FROM END, EMBED 3" INTO BLOCKING, TYP.
10. ROOF FRAMING, SEE STRUCTURAL.
11. FRAMING AT OPENING PER STRUCTURAL (6X6 MIN). PROVIDE EDGE NAILING INTO BLOCKING.
12. ADJUSTABLE COUNTERBALANCED BACKDRAFT DAMPER BY FAN MFR.
13. SIMPSON HANGER AT EACH END(TYP).

RELIEF/INTAKE HOOD MOUNTING — NTS — 2

1. ROOF EXHAUST FAN, SEE SCHEDULES.
2. WOOD NAILER PROVIDED WITH UNIT CURB.
3. #12 TEK SCREWS WITH MIN. 3/4" EMBED. INTO WOOD NAILER, MIN. (2) PER SIDE, SILICONE SEAL PENETRATIONS WATERTIGHT.
4. ROOFING UP AND UNDER FLASHING.
5. UNIT CURB, SEE SCHEDULES.
6. CANT STRIP.
7. ROOF INSULATION FORMED TO MEET CURB WHERE APPLICABLE, SEE ARCHITECTURAL DRAWINGS.
8. BACKDRAFT DAMPER PROVIDED WITH UNIT, SEE SCHEDULES.
9. DAMPER TRAY PROVIDED WITH UNIT, SEE SCHEDULES.
10. DUCTWORK, FULL SIZE OF CURB OPENING, SEE PLAN FOR ROUTING.
11. PRESSURE TREATED DOUG FIR LEVELING BLOCK, MIN. 2" HIGH, TOP FLAT/LEVEL (MAY BE OMITTED WITH USE OF PRE-SLOPED CURB).
12. 1/2"ø LAG SCREW WITH MIN. 3" EMBED. INTO BLOCKING BETWEEN JOISTS WITH U46 HANGERS.
13. FRAMING AT OPENING PER STRUCTURAL (4X6 MIN).
14. ROOF FRAMING SEE STRUCTURAL.
15. 2X WEB STIFFENER FILLER BLOCKING, BOTH SIDES OF I-JOIST, INSTALL FILLER BLOCKING AND NAILS PER STRUCTURAL AND ICC ESR-2994, TYP.



ROOF EXHAUST FAN MOUNTING — NTS — 3

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CENTRAL VALLEY
CONTINUATION HIGH SCHOOL CAMPUS
526 MANNEL AVENUE
SHAFTER, CA 93263

DRAWING SUBMITTAL SCHEDULE	
100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO: 22434-E-02

MECHANICAL DETAILS

M-802

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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E

Nonresidential Performance Compliance Method (Page 7 of 30)

C5. SOURCE ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]

Non-Regulated Energy Component	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE)[1]
Receptacle	4.86	4.86	---
Process	1.85	1.85	---
Other Ltg	0.14	0.14	---
Process Motors	0.06	0.13	-0.07
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	**21.92**	**21.78**	**0.14 (0.6%)**

[1] Notes: This table is not used for Energy Code Compliance.

C6. 'ABOVE CODE' QUALIFICATIONS

☐ This project is pursuing CalGreen Tier 1 ☐ This project is pursuing CalGreen Tier 2

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E

Nonresidential Performance Compliance Method (Page 4 of 30)

C2. TDV ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft² - yr)

COMPLIES[2]

Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Space Heating	12.97	8.97	4
Space Cooling	77.83	67.48	10.35
Indoor Fans	95.98	85.98	10
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	24.54	42.39	-17.85
Indoor Lighting	31.46	29.72	1.74
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	**242.78**	**234.54**	**8.24 (3.4%)**
Photovoltaics	-53.6	-60.55	6.95
Batteries	-4.11	---	-4.11
TOTAL COMPLIANCE	**185.07**	**173.99**	**11.08 (6%)**

[1] Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E

Nonresidential Performance Compliance Method (Page 1 of 30)

Project Name: CENTRAL VALLEY CHS **Date Prepared:** 2025-11-26

A. General Information

1	Project Name	CENTRAL VALLEY CHS			
2	Run Title	Title 24 Analysis			
3	Project Location	526 Mannel Avenue			
4	City	Shafter	5	Standards Version	Compliance 2022
6	Zip code	93263	7	Compliance Software (version)	EnergyPro 9.2
8	Climate Zone	13	9	Building Orientation (deg)	0
10	Building Type(s)	• Nonresidential	11	Weather File	MEADOWS-FIELD_STYP20.epw
12	Project Scope	• New complete scope	13	Number of Dwelling Units	0
14	Total Conditioned Floor Area in Scope (ft²)	14235	15	Total # of hotel/motel rooms	0
16	Total Unconditioned Floor Area (ft²)	712	17	Fuel Type	Natural gas
18	Nonresidential Conditioned Floor Area	14235	19	Total # of Stories (Habitable Above Grade)	1
20	Residential Conditioned Floor Area	0			

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E

Nonresidential Performance Compliance Method (Page 8 of 30)

C7. ENERGY USE SUMMARY

Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating	5.4	3.8	1.6	---	---	---
Space Cooling	30.4	24	6.4	---	---	---
Indoor Fans	47.9	42.6	5.3	---	---	---
Heat Rejection	---	---	---	---	---	---
Pumps & Misc.	---	---	---	---	---	---
Domestic Hot Water	14.7	25.5	-10.8	---	---	---
Indoor Lighting	17.1	16.2	0.9	---	---	---
Flexibility	---	---	---	---	---	---
EFFICIENCY TOTAL	**115.5**	**112.1**	**3.4**	**0**	**0**	**0**
Photovoltaics	-38.7	-43	4.3	---	---	---
Batteries	0.3	---	---	---	---	---
ENERGY USE SUBTOTAL	**77.1**	**69.1**	**8**	**0**	**0**	**0**
Receptacle	37.2	37.2	0	---	---	---
Process	8.6	8.6	0	---	---	---
Other Ltg	0.9	0.9	0	---	---	---
Process Motors	0.4	0.8	-0.4	---	---	---
ENERGY USE TOTAL	**124.2**	**116.6**	**7.6**	**0**	**0**	**0**

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E

Nonresidential Performance Compliance Method (Page 5 of 30)

C3. TDV ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]

Non-Regulated Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Receptacle	65.04	65.04	---
Process	16.83	16.83	---
Other Ltg	1.74	1.74	---
Process Motors	0.75	1.5	-0.75
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	**269.43**	**259.1**	**10.33 (3.8%)**

[1] Notes: This table is not used for Energy Code Compliance.

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E

Nonresidential Performance Compliance Method (Page 2 of 30)

B. PROJECT SUMMARY

Table B shows which building components are included in the performance calculation. If indicated as not included, the project must show compliance prescriptively if within the permit application.

Building Components Complying via Performance						Building Components Complying Prescriptively	
Envelope (See Table G)	Nonres	Performance	Solar Thermal Water Heating (See Table I3)	☐	Performance	The following building components are ONLY eligible for prescriptive compliance and should be documented on the NRCC form listed if within the scope of the permit application (i.e. compliance will not be shown on the NRCC-PRF-E).	
	MultiFam	Not Included		☒	Not Included		
Mechanical (See Table H)	Nonres	Performance	Covered Process: Commercial Kitchens (see Table J)	☐	Performance	Indoor Lighting (Unconditioned) 140.6 & 170.2(e)	NRCC-LTI-E is required
	MultiFam	Not Included		☒	Not Included	Outdoor Lighting 140.7 & 170.2(e)	NRCC-LTO-E is required
Domestic Hot Water (See Table I)	Nonres	Performance	Covered Process: Laboratory Exhaust (see Table J)	☐	Performance	Sign Lighting 140.8 & 170.2(e)	NRCC-LTS-E is required
	MultiFam	Not Included		☒	Not Included	**Building Components Complying with Mandatory Measures**	
Lighting (Indoor Conditioned, see Table K)	Nonres	Performance	Photovoltaics (see Table F)	☒	Performance	Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should be documented on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.)	
	MultiFam	Not Included		☐	Not Included	Electrical Power Distribution 110.11	NRCC-ELC-E is required
			Battery (see Table F)	☐	Performance	Commissioning 120.8	NRCC-CXR-E is required
				☒	Not Included	Solar and Battery 110.10	NRCC-SAB-E is required

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E

Nonresidential Performance Compliance Method (Page 9 of 30)

C8. ENERGY USE INTENSITY (EUI)

	Standard Design (kBtu/ft² / yr)	Proposed Design (kBtu/ft² / yr)	Margin (kBtu/ft² / yr)	Margin Percentage
GROSS EUI[1]	37.19	36.43	0.76	2.04
NET EUI[1]	28.35	26.62	1.73	6.1

[1] Notes: Gross EUI is Energy Use Total (not including PV)/Total Building Area. Net EUI is Energy Use Total (including PV)/Total Building Area.

D1. EXCEPTIONAL CONDITIONS

• The project uses the Simplified Geometry Performance Modeling Approach which is not capable of modeling daylighting controls and assumes the prescriptive Secondary Daylit Control requirements are met. PRESCRIPTIVE COMPLIANCE documentation (form NRCC-LTI-02-E) for the requirements of section 140.6(d) Automatic Daylighting Controls in Secondary Daylit Zones is required.
• PV/Battery Building Type has been modified from software defaults for one or more spaces. Review project's PV/Battery Building Type(s) with documentation author. Refer to Energy Code section 140.10 for Nonresidential or 170.2(g) for more information.

F1. REQUIRED PV SYSTEMS

01 DC System Size (kWdc)	02 Exception[1]	03 Module Type	04 Array Type	05 Power Electronics	06 CFI	07 Azimuth (deg)	08 Tilt Input	09 Array Angle (deg)	10 Tilt: (x in 12)	11 Inverter Eff. (%)	12 Annual Solar Access (%)
26		Standard (14-17%)	Fixed	Microinverters	false	180	Degrees	10	2.12	96	100

[1]See Table D1 for any PV exceptions used.

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E

Nonresidential Performance Compliance Method (Page 6 of 30)

C4. SOURCE ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual SOURCE Energy Use, kBtu/ft² /yr)

COMPLIES[2]

Energy Component	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE)[1]
Space Heating	1.7	1.16	0.54
Space Cooling	3.58	3.06	0.52
Indoor Fans	8.07	7.32	0.75
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	2.03	3.13	-1.1
Indoor Lighting	2.52	2.38	0.14
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	**17.9**	**17.05**	**0.85 (4.7%)**
Photovoltaics	-2.05	-2.25	0.2
Batteries	-0.84	---	-0.84
TOTAL COMPLIANCE	**15.01**	**14.8**	**0.21 (1.4%)**

[1] Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E

Nonresidential Performance Compliance Method (Page 3 of 30)

C1. COMPLIANCE SUMMARY

COMPLIES[3]

	Time Dependent Valuaton (TDV)		Source Energy Use
	Efficiency[1] (kBtu/ft² - yr)	Total[2] (kBtu/ft² - yr)	Total[2] (kBtu/ft² - yr)
Standard Design	242.78	185.07	15.01
Proposed Design	234.54	173.99	14.8
Compliance Margins	**8.24**	**11.08**	**0.21**
	Pass	**Pass**	**Pass**

[1] Efficiency measures include improvements like a better building envelope and more efficient equipment
[2] Compliance Totals include efficiency, photovoltaics and batteries
[3] New Construction, Complete Addition Scope: Building complies when all efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded
Existing, Addition and Alteration Scope: Building complies when efficiency compliance margin is greater than or equal to zero and unmet load hour limits are not exceeded

TITLE 24 COMPLIANCE SHEET INDEX

SHEET NUMBER	SHEET NAME
T24-001	TITLE 24 COMPLIANCE
T24-002	TITLE 24 COMPLIANCE
T24-003	TITLE 24 COMPLIANCE
T24-004	TITLE 24 COMPLIANCE
T24-005	TITLE 24 COMPLIANCE
T24-006	TITLE 24 COMPLIANCE
T24-007	TITLE 24 COMPLIANCE

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CENTRAL VALLEY CONTINUATION HIGH SCHOOL CAMPUS
526 MANNEL AVENUE
SHAFTER, CA 93263

DRAWING SUBMITTAL SCHEDULE

100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO:22434-E-02

TITLE 24 COMPLIANCE

T24-001

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H1. DRY SYSTEM EQUIPMENT (FURNACES, AIR HANDLING UNITS, HEAT PUMPS, VRF, ECONOMIZERS ETC.)

01	02	03	04	05	06	07	08	09	10	11	12
			Heating				Cooling				
Equipment Name	Equipment Type	Qty	Total Heating Output (kBtu/h)	Supp Heat Output (kBtu/h)	Efficiency Unit	Efficiency	Total Cooling Output (kBtu/h)	Efficiency Unit	Efficiency	Economizer Type (if present)	Status[1]
PHP-1	Single Zone Heat Pump (SZHP) Air System	1	39.6	0	COP HSPF2	3.35 7.2	55.86	EER2 SEER2	9.92 16	Differential Enthalpy	N
PHP-2	Single Zone Heat Pump (SZHP) Air System	1	39.6	0	COP HSPF2	3.35 7.2	55.86	EER2 SEER2	9.92 16	Differential Enthalpy	N
PHP-3	Single Zone Heat Pump (SZHP) Air System	1	39.6	0	COP HSPF2	3.35 7.2	55.86	EER2 SEER2	9.92 16	Differential Enthalpy	N
PHP-4	Single Zone Heat Pump (SZHP) Air System	1	39.6	0	COP HSPF2	3.35 7.2	55.86	EER2 SEER2	9.92 16	Differential Enthalpy	N
PHP-5	Single Zone Heat Pump (SZHP) Air System	1	22.6	0	COP HSPF2	3.2 6.7	33.26	EER2 SEER2	10.41 16	Differential Enthalpy	N
PHP-6	Single Zone Heat Pump (SZHP) Air System	1	45.6	0	COP HSPF	3.25 8.2	64.35	EER SEER	11.2 14	Differential Enthalpy	N
PHP-7	Single Zone Heat Pump (SZHP) Air System	1	22.6	0	COP HSPF2	3.2 6.7	33.26	EER2 SEER2	10.41 16	Differential Enthalpy	N
PHP-8	Single Zone Heat Pump (SZHP) Air System	1	22.6	0	COP HSPF2	3.2 6.7	33.26	EER2 SEER2	10.41 16	Differential Enthalpy	N

[1] Status: N - New, A - Altered, E - Existing

H1. DRY SYSTEM EQUIPMENT (FURNACES, AIR HANDLING UNITS, HEAT PUMPS, VRF, ECONOMIZERS ETC.)

01	02	03	04	05	06	07	08	09	10	11	12
			Heating				Cooling				
Equipment Name	Equipment Type	Qty	Total Heating Output (kBtu/h)	Supp Heat Output (kBtu/h)	Efficiency Unit	Efficiency	Total Cooling Output (kBtu/h)	Efficiency Unit	Efficiency	Economizer Type (if present)	Status[1]
PHP-9	Single Zone Heat Pump (SZHP) Air System	1	22.6	0	COP HSPF2	3.2 6.7	33.26	EER2 SEER2	10.41 16	Differential Enthalpy	N
IDU-1	Single Zone Heat Pump (SZHP) Air System	1	24.45	0	COP HSPF2	4.8 11.7	24.15	EER2 SEER2	14 23.1	No Economizer	N
IDU-2	Single Zone Heat Pump (SZHP) Air System	1	24.45	0	COP HSPF2	4.8 11.7	24.15	EER2 SEER2	14 23.1	No Economizer	N

[1] Status: N - New, A - Altered, E - Existing

H3. NONRESIDENTIAL / COMMON USE AREA FAN SYSTEMS SUMMARY

01	02	03	04	05	06	07	08	09	10	11	12	13
			Supply Fan				Return / Relief Fan					
Name or Item Tag	Qty	Design OA CFM	CFM	Power	Power Units	Control	Fan Type	CFM	Power	Power Units	Control	Status[1]
PHP-10	1	347.7	2,000	0.6	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
PHP-11	1	347.7	1,600	0.5	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
PHP-12	1	347.7	1,600	0.5	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
PHP-13	1	90.6	1,200	0.3	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
PHP-14	1	816.5	4,000	2.1	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
IDU-3	1	0	812	0.15	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
IDU-4	1	0	812	0.15	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
PHP-15	1	364.04	2,000	0.6	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
PHP-1	1	162.9	2,000	0.6	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
PHP-2	1	405.06	2,000	0.6	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
PHP-3	1	431.3	2,000	0.6	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
PHP-4	1	431.3	2,000	0.6	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
PHP-5	1	110.25	1,200	0.3	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
PHP-6	1	235.45	2,400	1	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
PHP-7	1	88.05	1,200	0.3	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
PHP-8	1	100.5	1,200	0.3	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
PHP-9	1	170	1,200	0.3	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
IDU-1	1	0	812	0.15	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
IDU-2	1	0	812	0.15	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N

[1] Status: N - New, A - Altered, E - Existing

G8. OVERHANG DETAILS

01	02	03	04	05	06	07
Fenestration Tag/ ID	Azimuth	Depth (ft)	Height from Top of Sill to Overhang (ft)	Right Extent (ft)	Left Extent (ft)	Flap Height
4x410	0	2.5	8	0.1	0.1	N/A
4x413	90	6	10.17	10	10	N/A
4x414	90	6	10.17	10	10	N/A
4x416	180	9	10.34	20	20	N/A
4x423	0	2.5	8	0.1	0.1	N/A
4x426	180	9	10.34	20	20	N/A
4x431	0	2.5	8	0.1	0.1	N/A
4x434	180	9	10.34	20	20	N/A
6.3x7.17102	270	6	10.17	10	10	N/A
6.3x7.17103	270	6	10.17	10	10	N/A
4x4105	180	9	10.34	20	20	N/A
4x4106	180	9	10.34	20	20	N/A
4x4107	180	9	10.34	20	20	N/A
4x4132	180	2.5	8	0.1	0.1	N/A
4x4133	180	2.5	8	0.1	0.1	N/A
4x4138	0	9	10.34	20	20	N/A
4x4140	180	2.5	8	0.1	0.1	N/A
4x4149	0	9	10.34	20	20	N/A
4x4151	180	2.5	8	0.1	0.1	N/A
4x4152	180	2.5	8	0.1	0.1	N/A
4x4157	180	2.5	8	0.1	0.1	N/A
4x4162	0	9	10.34	20	20	N/A
4x4163	0	9	10.34	20	20	N/A
4x4165	180	2.5	8	0.1	0.1	N/A
4x4171	0	9	10.34	20	20	N/A

G8. OVERHANG DETAILS

01	02	03	04	05	06	07
Fenestration Tag/ ID	Azimuth	Depth (ft)	Height from Top of Sill to Overhang (ft)	Right Extent (ft)	Left Extent (ft)	Flap Height
4x4172	0	9	10.34	20	20	N/A
4x4174	180	2.5	8	0.1	0.1	N/A
4x4184	0	9	10.34	20	20	N/A
4x4192	0	9	10.34	20	20	N/A
4x4196	0	9	10.34	20	20	N/A
4x4197	0	9	10.34	20	20	N/A
4x4215	180	6	10.17	10	10	N/A
19.375x8221	90	15.3	10.58	9	9	N/A
6.67x8223	180	6	10.6	10	10	N/A
4x4229	180	6	10.17	10	10	N/A
4x4246	90	6	10.17	10	10	N/A
4x4250	90	6	10.17	10	10	N/A
4x4254	90	6	10.17	10	10	N/A
4x4258	90	6	10.17	10	10	N/A
4x4271	270	9	10.34	20	20	N/A
4x4276	270	9	10.34	20	20	N/A
4x4297	0	6	10.17	10	10	N/A
4x4298	0	6	10.17	10	10	N/A
4x4300	90	6	10.17	10	10	N/A
4x4302	270	9	10.34	20	20	N/A

H1. DRY SYSTEM EQUIPMENT (FURNACES, AIR HANDLING UNITS, HEAT PUMPS, VRF, ECONOMIZERS ETC.)

01	02	03	04	05	06	07	08	09	10	11	12
			Heating				Cooling				
Equipment Name	Equipment Type	Qty	Total Heating Output (kBtu/h)	Supp Heat Output (kBtu/h)	Efficiency Unit	Efficiency	Total Cooling Output (kBtu/h)	Efficiency Unit	Efficiency	Economizer Type (if present)	Status[1]
PHP-10	Single Zone Heat Pump (SZHP) Air System	1	39.6	0	COP HSPF2	3.35 7.2	55.86	EER2 SEER2	9.92 16	Differential Enthalpy	N
PHP-11	Single Zone Heat Pump (SZHP) Air System	1	31.8	0	COP HSPF2	3.35 7.2	44.19	EER2 SEER2	10.2 16	Differential Enthalpy	N
PHP-12	Single Zone Heat Pump (SZHP) Air System	1	31.8	0	COP HSPF2	3.35 7.2	44.19	EER2 SEER2	10.2 16	Differential Enthalpy	N
PHP-13	Single Zone Heat Pump (SZHP) Air System	1	22.6	0	COP HSPF2	3.2 6.7	33.26	EER2 SEER2	10.41 16	Differential Enthalpy	N
PHP-14	Single Zone Heat Pump (SZHP) Air System	1	84.1	0	COP	3.4	113.33	EER	11	Differential Enthalpy	N
IDU-3	Single Zone Heat Pump (SZHP) Air System	1	24.45	0	COP HSPF2	4.8 11.7	24.15	EER2 SEER2	14 23.1	No Economizer	N
IDU-4	Single Zone Heat Pump (SZHP) Air System	1	24.45	0	COP HSPF2	4.8 11.7	24.15	EER2 SEER2	14 23.1	No Economizer	N
PHP-15	Single Zone Heat Pump (SZHP) Air System	1	39.6	0	COP HSPF2	3.35 7.2	55.86	EER2 SEER2	9.92 16	Differential Enthalpy	N

[1] Status: N - New, A - Altered, E - Existing

F1B. PV BATTERY BUILDING TYPE(S)

01	02	03
Building Occupancy Type* (From Table 140.10-A/B and 170.2-U/V)	Conditioned Floor Area (ft²)	Unconditioned Floor Area (ft²)
Grocery	0	0
High-Rise Multifamily	0	0
Office, Financial Institutions, Unleased Tenant Space	0	0
Retail	0	0
School	14235	712
Warehouse	0	0
Auditorium, Convention Center, Hotel/Motel, Library, Medical Office Building/Clinic, Restaurant, Theater	0	0
None	0	0

** Building Occupancy Types are defined in Section 100.1 of the Energy Code*

G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)

01	02	03	04
Opaque Surfaces & Orientation	Total Gross Surface Area (ft²)	Total Fenestration Area (ft²)	Window to Wall Ratio (%)
North-Facing[1]	3762.75	328	8.72
East-Facing[2]	1668.7	267	16
South-Facing[3]	3734.15	357.3	9.57
West-Facing[4]	1465.48	138.4	9.44
Total	**10631.1**	**1090.7**	**10.26**
Roof	14235	0	0

Notes
[1] North-Facing is oriented to within 45 degrees of true north, including 45 00'00" east of north (NE), but excluding 45 00'00" west of north (NW),
[2] East-Facing is oriented to within 45 degrees of true east, including 45 00'00" south of east (SE), but excluding 45 00'00" north of east (NE),
[3] South-Facing is oriented to within 45 degrees of true south, including 45 00'00" west of south (SW), but excluding 45 00'00" east of south (SE),
[4] West-Facing is oriented to within 45 degrees of true west, including 45 00'00" north of west (NW), but excluding 45 00'00" south of west (SW),

G4. NONRESIDENTIAL AIR BARRIER

01	02
Building Story Name	Air Barrier
Com-Floor 1	No air barrier

G5. OPAQUE SURFACE ASSEMBLY SUMMARY

01	02	03	04	05	06		07	08	09	10
					Continuous R-Value					
Surface Name	Construction Type	Area (ft²)	Framing Type	Cavity R-Value	Interior	Exterior	Units	Value	Description of Assembly Layers	Status[1]
2x6 R-21 Wood Wall9	Exterior Wall	10,904.3	Wood	21	N/A	N/A	U-factor	0.065	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Gypsum Board - 5/8 in. Composite-1 Gypsum Board - 5/8 in.	N
Slab On Grade18	Underground Floor	14,947	N/A	0	N/A	N/A	F-factor	0.73	Slab Type =Unheated slab on grade Insulation Orientation =None Insulation R-Value =none	N
R-30 w/R-12 Wood Roof20	Roof	14,947	Wood	30	N/A	12	U-factor	0.0246	Single Ply Roofing - 1/4 in. Compliance Insulation R12.00 Vapor permeable felt - 1/8 in. Plywood - 1/2 in. Air - Cavity - Wall Roof Ceiling - 4 in. or more Composite-2 Gypsum Board - 1/2 in.	N
2x6 R-21 Wood Wall91	Interior Wall	2,707.3	Wood	21	N/A	N/A	U-factor	0.0622	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Gypsum Board - 5/8 in. Composite-1 Gypsum Board - 5/8 in.	N

[1] Status: N - New, A - Altered, E - Existing

G7A. FENESTRATION ASSEMBLY SUMMARY (NONRESIDENTIAL)

01	02	03	04	05	06	07	08	09
Fenestration Assembly Name	Fenestration Type/ Product Type / Frame Type	Certification Method[1]	Assembly Method	Area (ft²)	Overall U-factor	Overall SHGC	Overall VT	Status[2]
Default	Vertical fenestration Fixed window N/A	NFRC	Site built	1,090.7	0.41	0.26	0.5	N

[1] Notes: Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for the glass-only, determined by the manufacturer, and are shown for ease of verification. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis.
[2] Status: N - New, A - Altered, E - Existing

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DRAWING SUBMITTAL SCHEDULE

100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO:22434-E-02

TITLE 24 COMPLIANCE

T24-002

Autodesk Docs://KMDS - Central Valley Continuation HS/24-24161 Central Valley CHS_MEP_FD_T_R23.rvt
4/6/2026 10:00:08 AM

K1. INDOOR CONDITIONED LIGHTING GENERAL INFO

01	02	03	04	05	06
Occupancy Type[1]	Conditioned Floor Area[2] (ft²)	Installed Lighting Power (Watts)	Lighting Control Credits (Watts)	Additional (Custom) Allowance	
				Area Category Footnotes (Watts)	Area Category Footnotes (Watts)
Classroom, Lecture, or Training Vocational	7842	3720	0	0	0
Convention, Conference, Multipurpose and Meeting Center	340	192	0	0	0
Corridor	590	216	0	0	0
Dining - Fastfood	1633	1170	0	0	0
Electrical Mechanical Telephone Room	404	197	0	0	0
Kitchen/ Food Preparation	604	370	0	0	0
Main Entry Lobby	329	411	0	0	0
Lounge	264	144	0	0	0
Office (250 square feet)	1611	1272	0	0	0
Restroom	168	99	0	0	0
GeneralStorage	450	124	0	0	0
Building Totals:	**14235**	**7915**	**0**	**0**	**0**

[1]*See Table 140.6-C*
[2]*See NRCC-LTI--E for unconditioned spaces*
[3]*Lighting information for existing spaces modeled is not included in this table*

K2. INDOOR CONDITIONED LIGHTING SCHEDULE

Luminaire Schedule (includes all permanent installed lighting in conditioned space, and portable lighting over 0.3 w/ft² in offices)

01	02	03	04	05	06
Name or Item Tag	Complete Luminaire Description (i.e. 3-lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Installed Watts (Conditioned)			
		Watts per luminaire	How is Wattage determined	Total Number of Luminaires	Installed Watts
A2	A2	31	According to	124	3844
A3	A3	37	According to	8	296
D2	D2	15	According to	4	60
V2	V2	18	According to	4	72
E1	E1	26	According to	8	208
J1	J1	15	According to	2	30
A1	A1	24	According to	115	2760
D1	D1	15	According to	43	645

[1]*If lighting power densities were used in the compliance model Building Departments will need to check prescriptive forms for Luminaire Schedule details.*

K4. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROL

Building Level Controls

01	02
Mandatory Demand Response 110.12(c)	Shut-Off Controls 130.1(c) & 160.5(b)4C
Required	Required

Area Level Controls (includes all lighting controls installed in conditioned space to meet mandatory requirements per 130.1)

03	04	05	06	07	08	09
Area Description	Area Category Primary Function Area	Area Controls 130.1(a) & 160.5(b)4A	Multi-Level Controls 130.1(b) & 160.5(b)4B	Shut-Off Controls 130.1(c) & 160.5(b)4C	Primary Daylighting 130.1(d) & 160.5(b)4D	Secondary Daylighting 140.5(d) & 160.5(b)4D
Classroom	Classroom, Lecture, or Training Vocational	Required	Required	Required	Required	Required
Office > 250	Office (250 square feet)	Required	Required	Required	Required	Required
Office < 250	Office (250 square feet)	Required	Required	Required	Required	Required
Corridor	Corridor	Required	Required	Required	Required	Required
IDF	Electrical Mechanical Telephone Room	Required	Required	Required	NA	NA
Electrical Room	Electrical Mechanical Telephone Room	Required	Exempt	Exempt	NA	NA
Kitchen	Kitchen/ Food Preparation	Required	Required	Required	NA	NA
Restroom	Restroom	Required	Exempt	Required	Required	Required
Lobby	Main Entry Lobby	Required	Required	Required	NA	NA

L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections made by Documentation Author indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online

Building Component	Form/Title
Envelope	NRCI-ENV-01-E - Must be submitted for all buildings
Envelope	NRCI-ENV-E - Envelope (for all buildings)
Mechanical	NRCI-MCH-01-E - Must be submitted for all buildings
Mechanical	NRCI-MCH-E - For all buildings with Mechanical Systems
Plumbing	NRCI-PLB-01-E - Must be submitted for all buildings
Plumbing	NRCI-PLB-E - For all buildings with Plumbing Systems
Indoor Lighting	NRCI-LTI-01-E - Must be submitted for all buildings
Indoor Lighting	NRCI-LTI-E - Indoor Lighting (for all buildings)

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections made by Documentation Author indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP).

Building Component	Form/Title
Envelope	NRCA-ENV-02-F - NRFC label verification for fenestration
Indoor Lighting	NRCA-LTI-02-A - Occupancy Sensors and Automatic Time Switch Controls.

H9. NONRESIDENTIAL / COMMON USE AREA & HOTEL/MOTEL VENTILATION

01	02	03	04	05	06	07
Zone Name	Mechanical Ventilation				Conditioned Area (sf)	DCV or Occupant Sensor Controls, or Both
	Ventilation Function	# of People	Supply OA CFM	Exhaust CFM		
15-Restroom (public)	Exhaust - Toilets, public Office - Main entry lobbies Office - Office space General - Corridors	13.88	235.45	550	912	DCV
16-Office (<250SF)	Office - Office space	2.94	88.05	0	587	N/A
17-Restroom (public)	Exhaust - Toilets, public Office - Office space General - Unoccupied General - Corridors	3.73	100.5	200	786	N/A
18-Conference (general)	General - Conference/meeting	11.33	170	0	340	DCV
19-Electrical (unoccupied)	General - Unoccupied	0.2	0	0	136	N/A
20-Electrical (unoccupied)	General - Unoccupied	0.1	0	0	69	N/A

H11. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

01	02	03	04	05	06	07	08	09	10	11	12
System ID	System Type	Qty	Rated Capacity (kBtuh)		Airflow (cfm)			Fan			VSD
			Heating	Cooling	Design	Min.	Min. Ratio	Power	Power Units	Cycles	
1-Classroom (ages 9-18)-Trm	Uncontrolled	1	N/A	N/A	2,000	N/A	0	N/A	N/A	N/A	☐
2-Classroom (ages 9-18)-Trm	Uncontrolled	1	N/A	N/A	1,600	N/A	0	N/A	N/A	N/A	☐
3-Classroom (ages 9-18)-Trm	Uncontrolled	1	N/A	N/A	1,600	N/A	0	N/A	N/A	N/A	☐
5-Kitchen (food prep area)-Trm	Uncontrolled	1	N/A	N/A	1,200	N/A	0	N/A	N/A	N/A	☐

H11. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

01	02	03	04	05	06	07	08	09	10	11	12
System ID	System Type	Qty	Rated Capacity (kBtuh)		Airflow (cfm)			Fan			VSD
			Heating	Cooling	Design	Min.	Min. Ratio	Power	Power Units	Cycles	
6-Dining Area (cafeteria)-Trm	Uncontrolled	1	N/A	N/A	4,000	N/A	0	N/A	N/A	N/A	☐
7-Electrical (unoccupied)-Trm	Uncontrolled	1	N/A	N/A	812	N/A	0	N/A	N/A	N/A	☐
8-Electrical (unoccupied)-Trm	Uncontrolled	1	N/A	N/A	812	N/A	0	N/A	N/A	N/A	☐
9-Classroom (ages 9-18)-Trm	Uncontrolled	1	N/A	N/A	2,000	N/A	0	N/A	N/A	N/A	☐
10-Classroom (computer lab)-Trm	Uncontrolled	1	N/A	N/A	2,000	N/A	0	N/A	N/A	N/A	☐
11-Classroom (ages 9-18)-Trm	Uncontrolled	1	N/A	N/A	2,000	N/A	0	N/A	N/A	N/A	☐
12-Classroom (ages 9-18)-Trm	Uncontrolled	1	N/A	N/A	2,000	N/A	0	N/A	N/A	N/A	☐
13-Classroom (ages 9-18)-Trm	Uncontrolled	1	N/A	N/A	2,000	N/A	0	N/A	N/A	N/A	☐
14-Lounge-Trm	Uncontrolled	1	N/A	N/A	1,200	N/A	0	N/A	N/A	N/A	☐
15-Restroom (public)-Trm	Uncontrolled	1	N/A	N/A	2,400	N/A	0	N/A	N/A	N/A	☐
16-Office (<250SF)-Trm	Uncontrolled	1	N/A	N/A	1,200	N/A	0	N/A	N/A	N/A	☐
17-Restroom (public)-Trm	Uncontrolled	1	N/A	N/A	1,200	N/A	0	N/A	N/A	N/A	☐
18-Conference (general)-Trm	Uncontrolled	1	N/A	N/A	1,200	N/A	0	N/A	N/A	N/A	☐
19-Electrical (unoccupied)-Trm	Uncontrolled	1	N/A	N/A	812	N/A	0	N/A	N/A	N/A	☐
20-Electrical (unoccupied)-Trm	Uncontrolled	1	N/A	N/A	812	N/A	0	N/A	N/A	N/A	☐

I1. WATER HEATER EQUIPMENT SUMMARY

01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	Heater Element Type	Tank Type	Qty	Tank Vol (gal)	Rated Input	Rated Input Unit	Efficiency	Efficiency Unit	Tank Insulation R-value Int/Ext	Standby Loss Fraction	1st Hr. Rating or Flow Rate (gal)	Heat Pump Type	Tank Location or Ambient Condition
65 Gallon Electric2	Electricity	Storage	1	65	30	kW	0.98	TE	N/A	0	N/A	N/A	N/A
30 Gallon Electric126	Electricity	Storage	1	30	12	kW	0.93	UEF	N/A	N/A	54	N/A	N/A

H5. GENERAL EXHAUST FAN SUMMARY

01	02	03	04	05	06	07	08
System ID	Zone Name	Qty	CFM	Power	Power Units	Continuous Operation?	Status[1]
Restroom (public)38	4-Restroom (public)	1	1750	0.2	BHP	No	N
Kitchen (food prep area)66	5-Kitchen (food prep area)	1	550	0.2	BHP	No	N
Restroom (public)206	15-Restroom (public)	1	550	0.2	BHP	No	N
Restroom (public)262	17-Restroom (public)	2	100	0.2	BHP	No	N

[1] *Status: N - New, A - Altered, E - Existing*

H8. SYSTEM SPECIAL FEATURES

01	02	03	04
System Name	Equipment Type	Interlocks per 140.4(n)[1]	Other Special Features and Controls
PHP-10	Single Zone Heat Pump (SZHP) Air System	N/A	Zone(s) With CO2 Sensor Vent. Control Differential Enthalpy
PHP-11	Single Zone Heat Pump (SZHP) Air System	N/A	Zone(s) With CO2 Sensor Vent. Control Differential Enthalpy
PHP-12	Single Zone Heat Pump (SZHP) Air System	N/A	Zone(s) With CO2 Sensor Vent. Control Differential Enthalpy
PHP-13	Single Zone Heat Pump (SZHP) Air System	N/A	Differential Enthalpy
PHP-14	Single Zone Heat Pump (SZHP) Air System	N/A	Zone(s) With CO2 Sensor Vent. Control Differential Enthalpy
PHP-15	Single Zone Heat Pump (SZHP) Air System	N/A	Zone(s) With CO2 Sensor Vent. Control Differential Enthalpy

Notes: This table includes controls related to the performance path only. For projects using the prescriptive path, mandatory and prescriptive controls requirements are documented on the NRCC-MCH-E.

[1] *Yes = interlocks are provided, No = interlocks are not provided, NA means no operable openings.*

H8. SYSTEM SPECIAL FEATURES

01	02	03	04
System Name	Equipment Type	Interlocks per 140.4(n)[1]	Other Special Features and Controls
PHP-1	Single Zone Heat Pump (SZHP) Air System	N/A	Zone(s) With CO2 Sensor Vent. Control Differential Enthalpy
PHP-2	Single Zone Heat Pump (SZHP) Air System	N/A	Zone(s) With CO2 Sensor Vent. Control Differential Enthalpy
PHP-3	Single Zone Heat Pump (SZHP) Air System	N/A	Zone(s) With CO2 Sensor Vent. Control Differential Enthalpy
PHP-4	Single Zone Heat Pump (SZHP) Air System	N/A	Zone(s) With CO2 Sensor Vent. Control Differential Enthalpy
PHP-5	Single Zone Heat Pump (SZHP) Air System	N/A	Zone(s) With CO2 Sensor Vent. Control Differential Enthalpy
PHP-6	Single Zone Heat Pump (SZHP) Air System	N/A	Zone(s) With CO2 Sensor Vent. Control Differential Enthalpy
PHP-7	Single Zone Heat Pump (SZHP) Air System	N/A	Differential Enthalpy
PHP-8	Single Zone Heat Pump (SZHP) Air System	N/A	Differential Enthalpy
PHP-9	Single Zone Heat Pump (SZHP) Air System	N/A	Zone(s) With CO2 Sensor Vent. Control Differential Enthalpy
EWH-11 - SHW	Service Hot Water	N/A	Fixed Temperature Control
EWH-2125 - SHW	Service Hot Water	N/A	Fixed Temperature Control

Notes: This table includes controls related to the performance path only. For projects using the prescriptive path, mandatory and prescriptive controls requirements are documented on the NRCC-MCH-E.

[1] *Yes = interlocks are provided, No = interlocks are not provided, NA means no operable openings.*

H9. NONRESIDENTIAL / COMMON USE AREA & HOTEL/MOTEL VENTILATION

01	02	03	04	05	06	07
Zone Name	Mechanical Ventilation				Conditioned Area (sf)	DCV or Occupant Sensor Controls, or Both
	Ventilation Function	# of People	Supply OA CFM	Exhaust CFM		
1-Classroom (ages 9-18)	Education - Classrooms (ages 9-18)	22.88	347.7	0	915	DCV

H9. NONRESIDENTIAL / COMMON USE AREA & HOTEL/MOTEL VENTILATION

01	02	03	04	05	06	07
Zone Name	Mechanical Ventilation				Conditioned Area (sf)	DCV or Occupant Sensor Controls, or Both
	Ventilation Function	# of People	Supply OA CFM	Exhaust CFM		
2-Classroom (ages 9-18)	Education - Classrooms (ages 9-18)	22.88	347.7	0	915	DCV
3-Classroom (ages 9-18)	Education - Classrooms (ages 9-18)	22.88	347.7	0	915	DCV
5-Kitchen (food prep area)	Food Service - Kitchen (cooking)	1.51	90.6	550	604	N/A
6-Dining Area (cafeteria)	Food Service - Cafeteria/fast-food dining	54.44	816.5	0	1633	DCV
7-Electrical (unoccupied)	General - Unoccupied	0.09	0	0	58	N/A
8-Electrical (unoccupied)	General - Unoccupied	0.12	0	0	83	N/A
9-Classroom (ages 9-18)	Education - Classrooms (ages 9-18)	23.95	364.04	0	958	DCV
10-Classroom (computer lab)	Education - Computer lab Misc - All others	22.8	162.9	0	1086	DCV
11-Classroom (ages 9-18)	Education - Classrooms (ages 9-18) Misc - All others	23.93	405.06	0	1233	DCV
12-Classroom (ages 9-18)	Education - Classrooms (ages 9-18)	28.38	431.3	0	1135	DCV
13-Classroom (ages 9-18)	Education - Classrooms (ages 9-18)	28.38	431.3	0	1135	DCV
14-Lounge	Misc - All others Office - Office space	11.16	110.25	0	735	DCV

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DRAWING SUBMITTAL SCHEDULE

100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO:22434-E-02

TITLE 24 COMPLIANCE

T24-003

4/16/2026 10:00:10 AM Autodesk Docs://KHSD_Central Valley Continuation HS/24-2161 Central Valley CHS_MEP_FP_T_2023.rvt

STATE OF CALIFORNIA
Nonresidential Building Commissioning
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-CXR-E
Project Name: Central Valley CHS	**Report Page:**	**(Page 4 of 7)**
	Date Prepared:	11/26/2025

G. OWNER'S PROJECT REQUIREMENTS (OPR)

This table is only completed if an OPR document is not attached to permit application to demonstrate compliance with 120.8(b). If a specific field is not applicable to the project scope, "NA" is indicated in the table. Per 120.8(b), the OPR is to be completed before design begins. This may be done at the Design Review Kickoff Meeting (see Table F)

		YES	NO
01	Attaching Completed Owner's Project Requirements Document?	●	○
02	Owner's Project Requirements Document Authors and Roles		

H. BASIS OF DESIGN (BOD)

This table is only completed if a BOD document is not attached to the permit application to demonstrate compliance with 120.8(c). If a specific field is not applicable to the project scope, "NA" is indicated in the table. Per 120.8(c), the BOD should be completed and updated during the design phase.

		YES	NO
01	Attaching Completed Basis of Design Document?	●	○
02	Basis of Design Document Authors and Roles		

I. CONSTRUCTION DOCUMENT DESIGN REVIEW CHECKLIST

This table is only completed if a design review document is not attached to permit application to demonstrate compliance with 120.8(b) and 120.8(e). For buildings with >= 10,000 ft² conditioned floor area, the design review will ensure the construction documents meet the Owner's Project Requirements (Table G.) and the Basis of Design Documents (Table H.). For buildings with < 10,000 ft² conditioned floor area, the design review will ensure the construction documents meet the goals documented in Table F. during the Design Review Kickoff.

		YES	NO
01	Attaching Completed Design Review Documentation?	●	○

J. COMMISSIONING PLAN

This table is only completed if a Commissioning Plan document is not attached to permit application to demonstrate compliance with 120.8(f). Per 120.8(f), the Commissioning Plan is to be started during the design phase and a completed draft must be submitted with permit application

		YES	NO
01	Attaching Completed Commissioning Plan?	●	○
02	Commissioning Plan Authors and Roles		

STATE OF CALIFORNIA
Nonresidential Building Commissioning
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-CXR-E
Project Name: Central Valley CHS	**Report Page:**	**(Page 5 of 7)**
	Date Prepared:	11/26/2025

K. FUNCTIONAL PERFORMANCE TESTING

The table below is completed to demonstrate compliance with functional performance testing requirements per 120.8(g).

By checking this box, the responsible party[1] certifies that functional performance testing will be executed to demonstrate the correct installation and operation of each component, system and system-to-system interface in accordance with the acceptance test requirements in 120.5, 130.4 and 140.9. The functional performance testing reports shall contain information addressing each of the building components tested, the testing methods utilized, and include any readings and adjustments made.	01 ☐

The following acceptance tests have been identified as applicable to the project scope:[2]

02	03	04	05
System/ Equipment to be Tested	Brief description of functional performance test	Applicable Reference Appendix	Certified Acceptance Test Technician Required?

The acceptance tests required by Title 24, Part 6 outline the minimum functional performance testing scope to be conducted for compliance. However, the commissioning scope may include additional functional performance tests on systems or equipment not having acceptance tests required by Title 24 Part 6.

The following additional functional performance tests have been requested by the owner or owner's representative:

06	07
System/ Equipment to be Tested	Brief description of functional performance test

[1] FOOTNOTE: See the signature block on the last page of this compliance document for the responsible party.
[2] Required acceptance tests can be determined by reviewing the "Certificates of Acceptance" table on each Certificate of Compliance submitted for permit application.

L. DOCUMENTATION AND TRAINING

The table below is completed to demonstrate compliance with documentation and training requirements per 120.8(h)

By checking this box, the responsible party[1] certifies that a systems manual will be provided to the building owner or representative per 120.8(h)1.	01 ☒
By checking this box, the responsible party[1] certifies that a training of the appropriate maintenance staff for each equipment and system will be completed and documented in the commissioning report per 120.8(h)2. Training requirements should be included in the contract document in the specifications.	02 ☒

[1] FOOTNOTE: See the signature block on the last page of this compliance document for the responsible party.

STATE OF CALIFORNIA
Nonresidential Building Commissioning
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-CXR-E
Project Name: Central Valley CHS	**Report Page:**	**(Page 6 of 7)**
	Date Prepared:	11/26/2025

M. COMMISSIONING REPORT

The table below is completed to demonstrate compliance with commissioning report requirements per 120.8(i)

By checking this box, the responsible party[1] certifies that a complete report of commissioning process' activities undertaken through the design, construction and reporting recommendations for post-construction phases of the building project shall be completed and provided to the owner or owner's representative.	01 ☒

[1] FOOTNOTES: See the signature block on the last page of this compliance document for the responsible party.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

There are no forms required for this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no forms required for this project.

STATE OF CALIFORNIA
Nonresidential Building Commissioning
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-CXR-E
This document is used to demonstrate compliance with mandatory commissioning requirements in 120.8 for nonresidential buildings and hotel/motel or mixed-use buildings with nonresidential spaces. This document does not demonstrate compliance with commissioning requirements within Title 24, Part 11, which need to be documented separately if they apply.		
Project Name: Central Valley CHS	**Report Page:**	**(Page 1 of 7)**
Project Address: 526 Mannel Avenue	**Date Prepared:**	11/26/2025

A. GENERAL INFORMATION

01	Project Location (city)	Shafter	04	Building Size (ft²)	14235
02	Occupancy Type	Nonresidential	05		10,000 - 49,999 ft²
03	Project Type	Newly constructed	06		Unitary or packaged equipment each serving one zone
			07	Climate Zone	13

B. PROJECT SCOPE

Based on project information provided in Table A, Table B indicates which commissioning related requirements apply per 120.8. Table B is not editable by the user.

Commissioning Requirements per 120.8

01	Table F: Design Review Kickoff	120.8(d)1 and 120.8(d)2	The design review kickoff meeting establishes who will play the role of the design reviewer, the project schedule and identify owner's requirements. This meeting should be conducted during schematic design.
02	Table G: Owner's Project Requirements (OPR)	120.8(b)	The owner's project requirements establish the owner's goals, requirements and expectations for everything related to energy consumption and operation. This should be completed during schematic design.
03	Table H: Basis of Design (BOD)	120.8(c)	The basis of design documents the design elements such as calculations and product selections that meet the owner's project requirements and applicable regulatory requirements. This should be completed during schematic design.
04	Table I: Design Review	120.8(d) and 120.8(e)	The design reviewer(s) reviews the construction documents for clarity, completeness, and adherence to the owner's goals. Commissioning measures must be included in the construction documents to facilitate the design review and commissioning process. For projects with >= 10,000 ft² of nonresidential conditioned floor area, the design review is for adherence with the Owner's Project Requirements (OPR) and Basis of Design (BOD). This should be conducted during design.
05	Table J: Commissioning Plan	120.8(f)	The commissioning plan is developed by the commissioning provider with input from the designer and defines the scope of commissioning the project. This should be drafted during design and completed during early construction.
06	Table K: Functional Performance Testing	120.8(g)	Functional performance testing is conducted on building systems to demonstrate correct installation and operation.
07	Table L: Documentation and Training	120.8(h)	Documentation of the operational aspects of the building shall be completed within the Systems Manual and delivered to the building owner or representative and facilities operator.

STATE OF CALIFORNIA
Nonresidential Building Commissioning
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-CXR-E
Project Name: Central Valley CHS	**Report Page:**	**(Page 2 of 7)**
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B. PROJECT SCOPE

08	Table M: Commissioning Report	120.8(i)	A complete report of commissioning process activities undertaken through the design, construction and reporting recommendations for post-construction phases of the building project shall be completed and provided to the owner or representative.

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with commissioning requirements per 120.8. This table is not editable by the user. If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

01	02	03	04	05	06	07	08	09
Design Kickoff Review	Owner's Project Requirements	Basis of Design	Design Review	Commissioning Plan	Functional Performance Testing	Documentation and Training	Commissioning Report	
Table F	Table G	Table H	Table I	Table J	Table K	Table L	Table M	
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	COMPLIES
10								COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

STATE OF CALIFORNIA
Nonresidential Building Commissioning
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-CXR-E
Project Name: Central Valley CHS	**Report Page:**	**(Page 3 of 7)**
	Date Prepared:	11/26/2025

F. DESIGN REVIEW KICKOFF MEETING

This table indicates that the design reviewer meets the qualification requirements per Title 24, Part 1 Section 10-103(a)1 and demonstrates compliance with design review kickoff requirements per 120.8(d)2. This meeting should occur during the Schematic Design phase of the project.

Design Review Kickoff Meeting Details

01	Date of Design Review Kickoff Meeting		0001-01-01	
02	Meeting Attendees: (one person may play multiple roles)			
☐	Owner/Facility Manager:	☒	Design Reviewer(s)	Designer
☐	Project Manager:	☐	Design Architect/ Engineer(s):	
☐	Contractor:	☐	Certified Acceptance Test Tech(s):	
☐	Commissioning Provider:	☐	Energy/ T24 Part 6 Consultant:	

Design Reviewer Qualifications per Title 24 Part 1 Section 10-103(a)1

The design reviewer(s) must be licensed professional engineers or licensed architects, or licensed contractors representing services performed by or under the direct supervision of a licensed engineer or architect, as specified in the provisions of Division 3 of the Business and Professions Code.		Do the Design Reviewer(s) meet these qualifications?	
03	In addition, for buildings with >= 10,000 ft² but < 50,000², the design reviewer(s) shall be a qualified in-house engineer or architect with no other project involvement or a third party engineer, architect, or contractor	Yes ●	No ○
04	The design reviewer(s) for this project will be:	Designer	

Preliminary Construction Schedule

		Start Date	Completion Date
05	Schematic Design	0001-01-01	0001-01-01
06	Design Development	0001-01-01	0001-01-01
07	Construction Documents	0001-01-01	0001-01-01
08	Construction	0001-01-01	0001-01-01
09	Building Turnover	0001-01-01	0001-01-01

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD	NRCC-PRF-E
Nonresidential Performance Compliance Method	**(Page 28 of 30)**

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections made by Documentation Author indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP).

Building Component	Form/Title
Indoor Lighting	NRCA-LTI-03-A - Automatic Daylight Controls.
Indoor Lighting	NRCA-LTI-04-A - Demand Responsive Lighting Controls.
Mechanical	NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap
Mechanical	NRCA-MCH-03-A - Constant Volume Single Zone HVAC
Mechanical	NRCA-MCH-05-A - Air Economizer Controls
Mechanical	NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints.
Mechanical	NRCA-MCH-12-A FDD for Packaged Direct Expansion Units

N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

Selections made by Documentation Author indicate which Certificates of Verification must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online

There are no Certificates of Verification applicable to this project

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD	NRCC-PRF-E
Nonresidential Performance Compliance Method	**(Page 29 of 30)**

Documentation Author's Declaration Statement

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Lydia Reynolds	Documentation Author Signature:
Company: LP Consulting Engineers	Signature Date: 2025-11-26
Address: 1209 Pleasant Grove Blvd.	CEA/HERS Certification Identification (if applicable):
City/State/Zip: Roseville, CA 95678	Phone: 916.771.0778

Responsible Person's Declaration statement

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I understand that a registered copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections, and I will take the necessary steps to accomplish this requirement.
6. I understand that a registered copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy, and I will take the necessary steps to accomplish these requirements.

Responsible Designer Name:	Responsible Designer Signature:	
Company: SGPA Architecture and Planning		
Address: 3111 Camino Del Rio North, Studio 500	Date Signed:	
City/State/Zip: San Diego, CA 92108	License #:	
Phone: 619.297.0131	Title:	Scope:
Responsible Designer Name: Rami Zeidan	Responsible Designer Signature:	
Company: LP Consulting Engineers		
Address: 1209 Pleasant Grove Blvd.	Date Signed: 2025-11-26	
City/State/Zip: Roseville, CA 95678	License #: E16762	
Phone: 916-771-0778	Title:	Scope:

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD	NRCC-PRF-E
Nonresidential Performance Compliance Method	**(Page 30 of 30)**

Responsible Designer Name: Ryan Ennis	Responsible Designer Signature:	
Company: LP Consulting Engineers		
Address: 1209 Pleasant Grove Blvd.	Date Signed: 2025-11-26	
City/State/Zip: Roseville, CA 95678	License #: M41413	
Phone: 916-771-0778	Title:	Scope:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125726 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/28/2026

SGPA
ARCHITECTURE AND PLANNING
3111 CAMINO DEL RIO NORTH, STUDIO 500
SAN DIEGO, CA 92108
619.297.0131
WWW.SGPA.COM

LP CONSULTING ENGINEERS
MEP & FS / Sustainability / CxA
1209 Pleasant Grove Blvd.
Roseville, CA 95678
p 916-771-0778
www.lpengineers.com
Job #: 24-2161

REGISTERED PROFESSIONAL ENGINEER
RYAN ENNIS
M 41413
REN. 03-31-27
MECHANICAL
STATE OF CALIFORNIA

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KERN HIGH SCHOOL DISTRICT
5801 SUNDALE AVE.
BAKERSFIELD, CA 93309

CENTRAL VALLEY
CONTINUATION HIGH SCHOOL CAMPUS
526 MANNEL AVENUE
SHAFTER, CA 93263

DRAWING SUBMITTAL SCHEDULE	
100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO:22434-E-02

TITLE 24 COMPLIANCE

T24-004

4/6/2026 10:00:11 AM Autodesk Docs://KHSD- Central Valley Continuation HS/24-2161 Central Valley CHS_MEP_FP_T_R23.rvt

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ELC-E
Project Name:	Central Valley CHS	**Report Page:** (Page 6 of 6)
Project Address:	526 Mannel Avenue	**Date Prepared:** 11/26/2025

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Lydia Reynolds	Documentation Author Signature:
Company: LP Consulting Engineers	Signature Date: 2025-11-26
Address: 1209 Pleasant Grove Blvd.	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Roseville CA 95678	Phone: 916.771.0778

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Rami Zeidan	Responsible Designer Signature:
Company: LP Consulting Engineers	Date Signed: 2025-11-26
Address: 1209 Pleasant Grove Blvd.	License: E16762
City/State/Zip: Roseville CA 95678	Phone: 916-771-0778

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name:	Central Valley CHS	**Report Page:** (Page 1 of 10)
Project Address:	526 Mannel Avenue	**Date Prepared:** 11/26/2025

This document is used to demonstrate compliance with requirements in 110.9, 130.0, 130.2, 140.7, and 141.0(b)2L for outdoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e)6, 180.1(a) and 180.2(b)4Bv for outdoor lighting scopes using the prescriptive path for multifamily and mixed-use occupancies. Multifamily includes dormitory and senior living facilities.

A. GENERAL INFORMATION

01	Project Location (city)	Shafter	04	Total Illuminated Hardscape Area (ft²)	39129
02	Climate Zone	13			
03	Outdoor Lighting Zone per Title 24 Part 1	10.114 or as designated by Authority Having Jurisdiction (AHJ):			
☐	LZ-0: Very Low - Undeveloped Parkland	☒ LZ-2: Moderate - Urban Clusters	☐	LZ-4: High - Must be reviewed by CA Energy Commission for Approval	
☐	LZ-1: Low - Rural Areas	☐ LZ-3: Moderately High - Urban Areas			
05	Occupancy Types within Project				

● Classroom ● Office ● Support Areas ● All Other Occupancies

B. PROJECT SCOPE

This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv for alterations.

My Project Consists of:

01	02	
☒ New Lighting System	Must Comply with Allowances from 140.7 / 170.2(e)6	
☐ Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)?	○ Yes ○ No
03	04	05
% of Existing Luminaires Being Altered[1]	Sum Total of Luminaires Being Added or Altered	Calculation Method
☐ < 10% ☐ >= 10% and < 50% ☐ >= 50%		

Please proceed to Table F. Outdoor Lighting Fixture Schedule to define the project's luminaires.

[1] *FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.*

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name:	Central Valley CHS	**Report Page:** (Page 2 of 10)
		Date Prepared: 11/26/2025

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through N. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

Calculations of Total Allowed Lighting Power (Watts) 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv												Compliance Results		
01		02		03		04		05	OR	06	=	07	≥	08	09
General Hardscape Allowance 140.7(d)1 / 170.2(e)6 (See Table I)	+	Per Application 140.7(d)2 / 170.2(e)6 (See Table J)	+	Sales Frontage 140.7(d)2 (See Table K)	+	Ornamental 140.7(d)2 / 170.2(e)6 (See Table L)	+	Per Specific Area 140.7(d)2 / 170.2(e)6 (See Table M)	OR	Existing Power Allowance 141.0(b)2L / 180.2(b)4Bv (See Table N)	=	**Total Allowed** (Watts)	≥	**Total Actual** (Watts)	**07 must be >= 08**
1,562	+	---	+	---	+	---	+	605	OR	---	=	2,167	≥	2,095	COMPLIES
Shielding Compliance (See Table G for Details)															COMPLIES
Controls Compliance (See Table H for Details)															COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ELC-E
Project Name:	Central Valley CHS	**Report Page:** (Page 3 of 6)
		Date Prepared: 11/26/2025

G. SEPARATION OF ELECTRICAL CIRCUITS FOR ENERGY MONITORING

This table includes entirely new or complete replacement electrical power distribution systems to demonstrate compliance with 130.5(b)/ 160.6(b). Any load types that are not included in the service do not need to be shown. For multifamily occupancies, submetered systems that provide power to dwelling units do not need to meet these separation requirements and therefore load types on those submetered systems also do not need to be shown.

01	02	03	04	05	
Load Type per Table 130.5-B[1]	Minimum Required Separation of Load per Table 130.5-B	Compliance Method[2]	Location of Requirements in Construction Documents	Field Inspector	
				Pass	Fail
Central Valley CHS					
HVAC systems and components	All HVAC in aggregate and each HVAC load rated at least 50 kVA	Method 1: Switchboards, motor control centers, or panelboard loads disaggregated for each load type	E-501, E-603 - E-605	☐	☐
Lighting including exit, egress and exterior	All lighting disaggregated by floor, type or area	Method 1: Switchboards, motor control centers, or panelboard loads disaggregated for each load type	E-501, E-603 - E-605	☐	☐
Plug Loads and appliances less than 25kVA	All plug loads separated by floor, type or area Groups of plug loads exceeding 25 kVA connected load in an area less than 5000 sf	NA: Add/Alt to feeders and branch circuits only	E-501, E-603 - E-605	☐	☐
Charging stations for electrical vehicle	All loads in aggregate	Method 1: Switchboards, motor control centers, or panelboard loads disaggregated for each load type	E-501, E-603 - E-605	☐	☐

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ELC-E
Project Name:	Central Valley CHS	**Report Page:** (Page 4 of 6)
		Date Prepared: 11/26/2025

G. SEPARATION OF ELECTRICAL CIRCUITS FOR ENERGY MONITORING

This table includes entirely new or complete replacement electrical power distribution systems to demonstrate compliance with 130.5(b)/ 160.6(b). Any load types that are not included in the service do not need to be shown. For multifamily occupancies, submetered systems that provide power to dwelling units do not need to meet these separation requirements and therefore load types on those submetered systems also do not need to be shown.

01	02	03	04	05	
Load Type per Table 130.5-B[1]	Minimum Required Separation of Load per Table 130.5-B	Compliance Method[2]	Location of Requirements in Construction Documents	Field Inspector	
				Pass	Fail

** NOTES: If "Other*" is selected under Compliance Method above, please indicate how compliance has been achieved in the space provided below.*

[1] *FOOTNOTES: For each separate load type, up to 10% of the connected load may be of any type.*
[2] *Method 1: Switchboards/ motor control centers/ panelboard loads disaggregated for each load type.*
Method 2: Switchboards/ motor control centers/ panelboard supply other distribution equipment with loads disaggregated for each load type.
Method 3: Branch circuits serve load types individually and provisions for adding future branch circuit monitoring.
Method 4: Complete metering system measures and reports loads by type.
See Chapter 8 of the Nonresidential Compliance Manual for more detail on Compliance Methods.

H. VOLTAGE DROP

This table includes entirely new or complete replacement electrical power distribution systems, or alterations that add, modify or replace both feeders and branch circuits to demonstrate compliance with 130.5(c)/ 160.6(c). For alterations, only the altered circuits must demonstrate compliance per 141.0(b)2Pii/ 180.2(b)4Bvii.c.

01	02			03	04	05	
Electrical Service Designation/Description	Combined Voltage Drop on Installed Feeder/Branch Circuit Conductors Compliance Method			Location of Voltage Drop Calculations[1]	Sheet Number for Voltage Drop Calculations in Construction Documents	Field Inspector	
						Pass	Fail
Central Valley CHS	☒	Voltage drop less than 5%	☐	Permitted by CA Elec Code (Exception to 130.5(c))*	In construction documents	E-601	☐	☐

** NOTES: If "Permitted by CA Elec Code *" is selected under Compliance Method above, please indicate where the exception applies in the space provided below.*

[1] *FOOTNOTES: Voltage drop calculations may be attached to the permit application outside the construction documents if allowed by the Authority Having Jurisdiction. Select "attached" if applicable. If calculations will be the responsibility of the installing contractor, select "Contractor Responsible".*

I. CIRCUIT CONTROLS FOR 120-VOLT RECEPTACLES AND CONTROLLED RECEPTACLES

This table includes entirely new or complete replacement electrical power distribution systems to demonstrate compliance with 130.5(d)/ 160.6(d).. Both controlled and uncontrolled receptacles must be provided in office areas, lobbies, conference rooms, kitchen areas in office spaces, copy rooms and hotel/motel guest rooms.

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ELC-E
Project Name:	Central Valley CHS	**Report Page:** (Page 5 of 6)
		Date Prepared: 11/26/2025

I. CIRCUIT CONTROLS FOR 120-VOLT RECEPTACLES AND CONTROLLED RECEPTACLES

01	02	03	04	05	06	07	
Room name or Description	Location/ Type of Controlled Receptacles[1]	Shut-Off Controls	Demand Responsive Controls	Permanent Durable Marking Will be Used	Location of Requirements in Construction Documents	Field Inspector	
						Pass	Fail
offices	Within 6ft of uncontrolled receptacle	Occupancy Sensor	NA: Building does not require demand responsive lighting controls per 110.12(c)	☒	E0-201	☐	☐
Conference Rooms	Within 6ft of uncontrolled receptacle	Occupancy Sensor	NA: Building does not require demand responsive lighting controls per 110.12(c)	☒	E0-201	☐	☐
Lobby	Within 6ft of uncontrolled receptacle	Auto Time-Switch with applicable overrides	NA: Building does not require demand responsive lighting controls per 110.12(c)	☒	E0-201	☐	☐

** NOTES: If "Other*" is selected under Shut-Off Controls above, please indicate how compliance has been achieved in the space provided below.*

[1] *FOOTNOTES: Receptacles dedicated to refrigerators and water dispensers in kitchens, located a minimum of 6ft above the floor specifically for clocks, network copiers, fax machines, A/V and data equipment other than personal computers in copy rooms, circuits rated more than 20 Amps, or connected to a UPS that are intended to be in continuous use and are marked to differentiate them from other receptacles or circuits are excepted from the requirements. .*

J. ELECTRIC READY BUILDINGS

This section does not apply to this project.

K. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCI-ELC-E - Must be submitted for all buildings

STATE OF CALIFORNIA
Nonresidential Building Commissioning
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-CXR-E
Project Name:	Central Valley CHS	**Report Page:** (Page 7 of 7)
Project Address:	526 Mannel Avenue	**Date Prepared:** 11/26/2025

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Lydia Reynolds	Documentation Author Signature:
Company: LP Consulting Engineers	Signature Date: 2025-11-26
Address: 1209 Pleasant Grove Blvd.	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Roseville CA 95678	Phone: 916.771.0778

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:	Responsible Designer Signature:
Company: SGPA Architecture and Planning	Date Signed: 2025-11-26
Address: 3111 Camino Del Rio North, Studio 500	License:
City/State/Zip: San Diego CA 92108	Phone: 619.297.0131

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ELC-E
Project Name:	Central Valley CHS	**Report Page:** (Page 1 of 6)
Project Address:	526 Mannel Avenue	**Date Prepared:** 11/26/2025

This document is used to demonstrate compliance with mandatory requirements in 130.5, for electrical systems in newly constructed nonresidential and hotel/motel occupancies and 160.6 and 160.9 for electrical systems in newly constructed multifamily occupancies. Additions and alterations to electrical service systems in nonresidential and hotel/motel occupancies will also use this document to demonstrate compliance per 141.0(a) or 141.0(b)2P for alterations. For multifamily addition or alterations compliance will be documented per 180.1(a) or 180.2 (b)4Bvii

A. GENERAL INFORMATION

01	Project Location (city)	Shafter	02	Climate Zone	13
			03	Occupancy Types Within Project:	All Other OccupanciesClassroomOfficeSupport Areas

B. PROJECT SCOPE

This table includes electrical systems that are within the scope of the permit application.

01	02	03	04	05	06	07
Electrical Service Designation/ Description	Scope of Work[1]	Rating[2] (kVA)	Utility Provided Metering System Exception to 130.5(a)/ 160.6(a)[3]	System subject to CA Elec Code Article 517 Exception to 130.5(a)and (b)	Demand Response Controls	Provides power to dwelling units/common living areas only in multifamily occupancy
Central Valley CHS	New electrical service equipment and meter	831	☐	☐	Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standards based messaging protocol which enables demand response after receiving a demand response signal. Sections 120.2/ 160.3, 130.1/ 160.5, and 130.3/ 160.5, and mechanical, indoor lighting, and sign lighting Certificate of Compliance documents will indicate when demand response controls are required.	☐

[1] *FOOTNOTES: Adding only new feeders and branch circuits triggers Voltage Drop 130.5(c)/160.6(c), no other requirements from 130.5/160.6 are required.*
[2] *If common use areas in a multifamily are submetered, rating is for submeter size serving common use areas.*
[3] *Applicable if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.*

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ELC-E
Project Name:	Central Valley CHS	**Report Page:** (Page 2 of 6)
		Date Prepared: 11/26/2025

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through J. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

01		02		03		04	05	06
Service Electrical Metering 130.5(a)/ 160.6(a) (See Table F)	AND	Separation for Monitoring 130.5(b)/ 160.6(b) (See Table G)	AND	Voltage Drop 130.5(c)/ 160.6(c) (See Table H)	AND	Controlled Receptacles 130.5(d)/ 160.6(d) (See Table I)	Electric Ready 160.9 (See Table J)	**Compliance Results**
Yes	AND	Yes	AND	Yes	AND	Yes		COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. SERVICE ELECTRICAL METERING

This table includes new or replacement electrical service systems OR equipment to demonstrate compliance with 130.5(a) / 160.6(a). For multifamily occupancies, submetered systems that provide power to common use areas must meet the following metering requirements. Submetered systems providing power to dwelling units do not.

01	02	03				04	05
Electrical Service Designation/ Description	Rating[1] (kVA)	Required Metering Capabilities per Table 130.5-A				Location of Requirements in Construction Documents	Field Inspector
		Instantaneous Demand (kW)	Historical Peak Demand (kW)	Tracking kWh for user-defined period	kWh per rate period		Pass	Fail
Central Valley CHS	831	☒	☒	☒	☐	E-501	☐	☐

[1] *FOOTNOTES: If common use areas in a multifamily are submetered, rating is for submeter size serving common use areas.*

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125726 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/28/2026

SGPA
ARCHITECTURE AND PLANNING
3111 CAMINO DEL RIO NORTH, STUDIO 500
SAN DIEGO, CA 92108
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LP CONSULTING ENGINEERS
MEP & FS / Sustainability / CxA
1209 Pleasant Grove Blvd.
Roseville, CA 95678
p 916-771-0778
www.lpengineers.com
Job #: 24-2161

REGISTERED PROFESSIONAL ENGINEER
BRYAN ENNIS
M 41413
REN. 03-31-27
MECHANICAL
STATE OF CALIFORNIA

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KERN HIGH SCHOOL DISTRICT
5801 SUNDALE AVE.
BAKERSFIELD, CA 93309

CENTRAL VALLEY CONTINUATION HIGH SCHOOL CAMPUS
526 MANNEL AVENUE
SHAFTER, CA 93263

DRAWING SUBMITTAL SCHEDULE	
100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO:22434-E-02

TITLE 24 COMPLIANCE

T24-005

Autodesk Docs://KHSD_Central Valley Continuation HS/24-2161 Central Valley CHS_MEP_FP_T_R23.rvt
4/16/2026 10:00:13 AM

STATE OF CALIFORNIA
Outdoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: Central Valley CHS	**Report Page:**	**(Page 9 of 10)**
	Date Prepared:	11/26/2025

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCI-LTO-E - Must be submitted for all buildings

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires.	Parking lot; Walkways; Safe Dispersal Area;

STATE OF CALIFORNIA
Outdoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: Central Valley CHS	**Report Page:**	**(Page 10 of 10)**
Project Address: 526 Mannel Avenue	**Date Prepared:**	11/26/2025

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Documentation Author Signature:
Lydia Reynolds	
Company:	Signature Date:
LP Consulting Engineers	2025-11-26
Address:	CEA/ HERS Certification Identification (if applicable):
1209 Pleasant Grove Blvd.	
City/State/Zip:	Phone:
Roseville CA 95678	916.771.0778

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:	Responsible Designer Signature:
Rami Zeidan	
Company:	Date Signed:
LP Consulting Engineers	2025-11-26
Address:	License:
1209 Pleasant Grove Blvd.	E16762
City/State/Zip:	Phone:
Roseville CA 95678	916-771-0778

A. GENERAL INFORMATION

01	Project Location (city)	Shafter	04	Building Occupancies	All Other OccupanciesOfficeSupport Areas
02	Climate Zone	13	05	Construction Type	New construction
03	Conditioned Floor Area (ft²)	14235	06	Number of Stories	Bldg <= 3 stories

B. PROJECT SCOPE

The compliance path the project is using to comply per 110.10(b)1B/ 140.10/ 170.2(g and h) is indicated below.

Compliance with Solar Photovoltaic (PV) and Battery Requirements in 140.10/ 170.2(g and h)

	01	
☐	Provided PV system and battery storage sized per 140.10/ 170.2 (g and h)	The project has included an installed PV system and battery storage system per requirements in 140.10/ 170.2(g and h) as documented in Table J.
☐	Exception to PV and Battery: Not enough Solar Access Roof Area	The total of all available Solar Access Roof Area(s) of the project site is less than three percent of the conditioned floor area as documented in Table J.
☐	Exception to PV and Battery: Required PV < 4kW	The required PV system size is less than 4 kW dc as documented in Table J..
☐	Exception to PV and Battery: No contiguous Solar Access Roof Area	The Solar Access Roof Area(s) of the project site contains less than 80 contiguous square feet as documented in Table J.
☐	Exception to PV and Battery: Can't meet snow load	The project has a roof design where the enforcement authority has verified it is not possible for the PV system, including panels, modules, components, supports, and attachments to the roof structure, to meet ASCE 7-16 Chapter 7, Snow Loads.
☐	Exception to PV and Battery: Multi-tenant without VNEM or Community Solar	The project is a multi-tenant building in an area where a load serving entity does not provide either a Virtual Net Metering (VNEM) or community solar program.
☒	The prescriptive PV/battery requirement has been traded off using the performance compliance approach as documented on the PRF Certificate of Compliance form.	

STATE OF CALIFORNIA
Solar And Battery CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-SAB-E
Project Name: Central Valley CHS	**Report Page:**	**(Page 1 of 4)**
Project Address: 526 Mannel Avenue	**Date Prepared:**	11/26/2025

This document is used to demonstrate compliance with prescriptive PV and battery requirements in 140.10/ 170.2 for nonresidential, multifamily and mixed-use buildings and prescriptive solar thermal requirements in 170.2(d)3C for multifamily and hotel/ motel occupancies. When PV/battery/solar thermal requirements don't apply or are traded using the performance approach, this document demonstrates compliance with mandatory solar readiness requirements in 110.10/ 160.8 for newly constructed buildings which are either multifamily ten stories or fewer, hotel/motel ten stories or fewer or all other nonresidential buildings three stories or fewer. It is also used to demonstrate compliance with solar readiness in 110.10/ 160.8 for additions to nonresidential, multifamily or hotel/motel building types which add more than 2,000 ft² of roof area. Alterations, or additions of less than 2,000 ft² of roof area, are not required to comply with solar readiness, solar PV and battery requirements and do not need to complete this document.

STATE OF CALIFORNIA
Outdoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: Central Valley CHS	**Report Page:**	**(Page 6 of 10)**
	Date Prepared:	11/26/2025

H. OUTDOOR LIGHTING CONTROLS

This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.
Outdoor lighting for nonresidential buildings, parking garages and common service areas in multifamily buildings must be documented separately from outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit

Mandatory Controls for Nonresidential Occupancies, Parking Garages & Common Areas in Multifamily Buildings

01	02	03	04	05	
Area Description	Shut-Off 130.2(c)1 / 160.5(c)	Auto-Schedule 130.2(c)2 / 160.5(c)	Motion Sensor 130.2(c)3 / 160.5(c)	Field Inspector	
				Pass	Fail
Parking lot	Astronomical Timer	Provided	NA: Not permitted by H&LS	☐	☐
Walkways	Astronomical Timer	Provided	NA: Each Luminaire <= 40 Watts	☐	☐
Safe Dispersal Area	Astronomical Timer	Provided	NA: Not permitted by H&LS	☐	☐

[1] FOOTNOTE: Text has been abbreviated, please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed.
[2] Authority having jurisdiction may ask for cutsheets or other documentation to confirm compliance of light source.
[3] Recessed luminaires marked for use in fire-rated installations, and recessed luminaires installed in non-insulated ceilings are excepted from ii and iii.

STATE OF CALIFORNIA
Outdoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: Central Valley CHS	**Report Page:**	**(Page 7 of 10)**
	Date Prepared:	11/26/2025

I. LIGHTING POWER ALLOWANCE (per 140.7 / 170.2(e))

This table includes areas using allowance calculations per 140.7 / 170.2(e). General Hardscape Allowance is per Table 140.7-A/Table 170.2-R while "Use it or lose it" Allowances are per Table 140.7-B /Table 170.2-S. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.
Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

	01				
		"Use it or lose it" Allowance (select all that apply) (select all that apply)			
☒ General Hardscape Allowance Table I (below)	☐ Per Application Table J	☐ Sales Frontage Table K	☐ Ornamental Table L	☒ Per Specific Area Table M	

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A for Nonresidential & Hotel/Motel

02	03	04	05	06	07	08	09
Area Description	Area Wattage Allowance (AWA)			Linear Wattage Allowance (LWA)			Total General AWA + LWA (Watts)
	Illuminated Area (ft²)	Allowed Density (W/ft²)	Area Allowance (Watts)	Perimeter Length (lf)	Allowed Density (W/lf)	Linear Allowance (Watts)	
Parking	25379	0.019	482.2	1656	0.2	248.4	731
Walkways Bldg 100	3680	0.019	69.9	990	0.2	148.5	218
Safe Dispersal Area	5600	0.019	106.4	700	0.2	105	211
Kitchen Drop Off Area	1490	0.019	28.3	200	0.2	30	58
Walkways Bldg 200	2980	0.019	56.6	575	0.2	86.2	143
						Initial Wattage Allowance for Entire Site (Watts):	200
						Instances of Initial Wattage Allowance (LZ 0 only)[1]	
						Total General Hardscape Allowance (Watts):	1562

J. LIGHTING ALLOWANCE: PER APPLICATION

This section does not apply to this project.

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This section does not apply to this project.

STATE OF CALIFORNIA
Outdoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: Central Valley CHS	**Report Page:**	**(Page 8 of 10)**
	Date Prepared:	11/26/2025

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This table includes areas using the wattage allowance per specific area from Table 140.7-B /Table 170.2-S. More than one specific area allowance may be taken in a single project, if applicable. However, multiple specific area allowances may not be taken for the exact same area on the site.

01	02	03	04	05	06	07	08	09	10
Area Description	Specific Area Type per Table 140.7-B	CALCULATED ALLOWANCE (Watts)			DESIGN WATTS				Additional Allowance (Watts)
		Specific Area (ft²)[1]	Allowed Density (W/ft²)	Extra Allowance (Watts)	Luminaire Name or Item Tag	Watts per Luminaire	# of Luminaires	Design Watts	
Student Drop Off and Pick up	StudentDropOffPlace	5600	0.1	313.6	S5	95	3	285	285
							Total Design Watts for this Area:	285	
Shade Structure Bldg 300	NonSalesCanopy	4000	0.1	548	P1	80	4	320	320
							Total Design Watts for this Area:	320	
							Total Allowance (Watts) All Areas:		605

[1] FOOTNOTES: See Table 140.7-B /Table 170.2-S for rules for calculating the specific areas (ft²) for these additional lighting allowances.
[2] For luminaires indicated in Table F as linear, wattage in column 07 is W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 08 instead of number of luminaires.

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This section does not apply to this project.

STATE OF CALIFORNIA
Outdoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: Central Valley CHS	**Report Page:**	**(Page 3 of 10)**
	Date Prepared:	11/26/2025

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per 141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

Designed Wattage:

01	02		03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description		Watts per luminaire[1, 2]	How is Wattage determined	Total Number Luminaires[2]	Luminaire Status[3]	Excluded per 140.7(a) / 170.2(e)6A	Design Watts	Cutoff Req. > 6,200 initial lumen output 130.2(b) / 160.5(c)[4]	Field Inspector	
										Pass	Fail
P1	P1	☐ Linear	80	Mfr. Spec	4	New	☐	320	NA: < 6200 lumens	☐	☐
S1	S1	☐ Linear	102	Mfr. Spec	6	New	☐	612	Provided	☐	☐
S2	S2	☐ Linear	102	Mfr. Spec	1	New	☐	102	Provided	☐	☐
S3	S3	☐ Linear	102	Mfr. Spec	1	New	☐	102	Provided	☐	☐
S4	S4	☐ Linear	102	Mfr. Spec	3	New	☐	306	Provided	☐	☐
S5	S5	☐ Linear	95	Mfr. Spec	3	New	☐	285	Provided	☐	☐
W1	W1	☐ Linear	7	Mfr. Spec	38	New	☐	266	NA: < 6200 lumens	☐	☐
W1	W2	☐ Linear	51	Mfr. Spec	2	New	☐	102	NA: < 6200 lumens	☐	☐
							Total Design Watts:	2095			

** NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.*
EX: Luminaire is lighting a statue; EXCEPTION 2 to 130.2(b)

[1] FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b)
[2] For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.
[3] Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.

STATE OF CALIFORNIA
Outdoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: Central Valley CHS	**Report Page:**	**(Page 4 of 10)**
	Date Prepared:	11/26/2025

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per 141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

Designed Wattage:

01	02	03	04	05	06	07	08	09	10

[4] Compliance with mandatory shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by 130.2(b)/ 160.5(c)

STATE OF CALIFORNIA
Outdoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: Central Valley CHS	**Report Page:**	**(Page 5 of 10)**
	Date Prepared:	11/26/2025

G. SHIELDING REQUIREMENTS (BUG)

This table includes fixtures of >=6,200 initial lumens indicated on Table F as needing to comply with Shielding Requirements. Maximum lumens can be found in Title 24, Part 11, Section 5.106.8.

01	02	03	04	05	06	07	08	09	10	11	12	
Name or Item Tag	Complete Luminaire Description	Backlight Rating[2]			Uplight Rating[2]			Glare Rating (Lumens)[2]			Field Inspector	
		Mounting Height[1]	Max Allowable Backlight Rating[3]	Backlight Rating Per Design	Lighting type	Max Allowable Uplight Rating[3]	Uplight Rating Per Design	Mounting Height[1]	Max Allowable Glare Rating[3]	Glare Rating Per Design	Pass	Fail
S1	S1	2 MH from property line	No Limit	B0	All other outdoor lighting, including decorative	U2	U0	> 2 MH from property line	G2	G3	☐	☐
S3	S3	2 MH from property line	No Limit	B4	All other outdoor lighting, including decorative	U2	U0	> 2 MH from property line	G2	G2	☐	☐
S4	S4	2 MH from property line	No Limit	B2	All other outdoor lighting, including decorative	U2	U0	> 2 MH from property line	G2	G4	☐	☐
S5	S5	2 MH from property line	No Limit	B4	All other outdoor lighting, including decorative	U2	U0	> 2 MH from property line	G2	G3	☐	☐
S1	S1	2 MH from property line	No Limit	B0	All other outdoor lighting, including decorative	U2	U0	> 2 MH from property line	G2	G3	☐	☐
S2	S2	2 MH from property line	No Limit	B2	All other outdoor lighting, including decorative	U2	U0	> 2 MH from property line	G2	G4	☐	☐

[1] FOOTNOTES: Mounting Height is labeled MH in this table.
[2] Authority Having Jurisdiction may ask for Luminaire cut sheets or other documentation to confirm luminaire type, uplight ratings and glare ratings used for compliance per 130.2(b)/ 160.5(c)
[3] BUG ratings with a lower number than the 'Max Allowable' are compliant. Ex. If Max Allowable is Bug Rating B4, then B0, B1, B2 and B3 are all compliant.

Autodesk Docs://KHSD_Central Valley Continuation HS\22434-E\Central Valley CHS_MEP_FP_T_R25.rvt
4/16/2026 10:00:16 AM

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125726 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/28/2026

SGPA
ARCHITECTURE AND PLANNING
3111 CAMINO DEL RIO NORTH, STUDIO 500
SAN DIEGO, CA 92108
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Job #: 24-2161

REGISTERED PROFESSIONAL ENGINEER
BRYAN ENNIS
M 41413
REN. 03-31-27
MECHANICAL
STATE OF CALIFORNIA

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KERN HIGH SCHOOL DISTRICT
5801 SUNDALE AVE.
BAKERSFIELD, CA 93309

CENTRAL VALLEY CONTINUATION HIGH SCHOOL CAMPUS
526 MANNEL AVENUE
SHAFTER, CA 93263

DRAWING SUBMITTAL SCHEDULE

100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO:22434-E-02

TITLE 24 COMPLIANCE

T24-006

Compliance with Solar Thermal Water Heating Requirements in 170.2(d)3C (Multifamily and hotel/ motel occupancies only)

01	
☐	The project includes a hotel/motel or multifamily occupancy with a gas or propane central water-heating system (serves 2+ dwelling units) and includes a permanently installed domestic solar water-heating system to comply with 170.2(d)3C and Reference Residential Appendix RA4, as documented in Table H. Compliance meets Exception 2 to solar ready requirements in 110.10(b).

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through I. Note: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance or see the applicable Table referenced below.

Allocated Solar Zone				Installed PV System				Installed SWH System				Smart Tstat and Alternative EE Measure		Compliance Results
01		02		03		04		05		06		07	08	
Required Minimum Area (ft^2)	<=	Designated Area (ft^2)	OR	Required Minimum DC Power Rating (Watts)	<=	Designed DC Power Rating (Watts)	OR	Required Minimum Solar Savings Fraction	<=	Designed/Rated Solar Savings Fraction	OR	JA5 Compliant Thermostat Specified?	Alternative Energy Efficiency Measure	COMPLIES
(See Table F)				(See Tables G or J)				(See Table H)				(See Table I)		
	<=		OR		<=		OR		<=		OR			
				Location in construction documents showing the location for inverters and metering equipment and a pathway for the routing of conduit/ plumbing to the electrical service/ water heating system per §110.10(c).										
Battery storage system design meets the minimum requirements in Joint Appendix JA12 and the minimum energy (kWh)/ power (kW) capacity per Table J.														COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table is includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. ALLOCATED SOLAR ZONE

This section does not apply to this project.

G. PERMANENTLY INSTALLED SOLAR PV FOR SOLAR READY EXCEPTION

This section does not apply to this project.

H. PERMANENTLY INSTALLED SOLAR HOT WATER SYSTEMS

This section does not apply to this project.

I. SMART THERMOSTATS AND ALTERNATIVE EFFICIENCY MEASURE FOR SOLAR READY EXCEPTION

This section does not apply to this project.

J. PHOTOVOLTAIC (PV) AND BATTERY SYSTEMS

This section does not apply to this project.

K. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included Table E. Additional Remarks and ExceptionalConditionMessageCCSABE += UserChangedSelectionInCI. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCI-SAB-01-E - Must be submitted for all buildings that must comply with solar readiness or PV/Battery requirements.

L. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no forms required for this project.

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Documentation Author Signature:
Lydia Reynolds	
Company: LP Consulting Engineers	Signature Date: 2025-11-26
Address: 1209 Pleasant Grove Blvd.	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Roseville CA 95678	Phone: 916.771.0778

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:	Responsible Designer Signature:
Company: SGPA Architecture and Planning	Date Signed: 2025-11-26
Address: 3111 Camino Del Rio North, Studio 500	License:
City/State/Zip: San Diego CA 92108	Phone: 619.297.0131

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125726 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/28/2026

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REGISTERED PROFESSIONAL ENGINEER
BRYAN ENNIS
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REN. 03-31-27
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STATE OF CALIFORNIA

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BAKERSFIELD, CA 93309

CENTRAL VALLEY
CONTINUATION HIGH SCHOOL CAMPUS
526 MANNEL AVENUE
SHAFTER, CA 93263

DRAWING SUBMITTAL SCHEDULE	
100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO:22434-E-02

TITLE 24 COMPLIANCE

T24-007

4/6/2026 10:00:16 AM Autodesk Docs://KHSD - Central Valley Continuation HS/24-2161 Central Valley CHS_MEP_FP_T_R23.rvt

EQUIPMENT ANCHORAGE NOTES

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.17 THROUGH 1617A.1.20 & 1617A.1.23 AND ASCE 7-16 CHAPTERS 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING AND DUCTWORK DISTRIBUTION SYSTEM BRACING NOTES

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7 SECTION 13.3 AS DEFINED IN ASCE 7 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. THE MEP DESIGN PROFESSIONAL ENGINEER RESPONSIBLE FOR CONTENT ON THESE SHEETS HAS VERIFIED THAT THE DESIGN METHODS IDENTIFIED BELOW ARE IN ACCORDANCE WITH DSA IR 16-13.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP	MD	PP	E	
☐	☐	☒	☐	OPTION 1: PROJECT-SPECIFIC DESIGN.
☐	☐	☐	☐	OPTION 2: DESIGN BASED ON OSHPD OPM, WITHIN PROJECT SUBMITTAL
☐	☐	☐	☐	OPTION 3: DESIGN BASED ON OSHPD OPM, DEFERRED SUBMITTAL

PLUMBING LEGEND

SYMBOL	ITEM	ABBR.
WH 1	EQUIPMENT DESIGNATION / UNIT ABBREVIATION NUMBER	
WC-1	FIXTURE DESIGNATION / UNIT ABBREVIATION NUMBER	
1 P-1	DETAIL DESIGNATION DETAIL NUMBER SHEET NO. WHERE SHOWN	
	DOMESTIC COLD WATER	CW
	DOMESTIC HOT WATER	HW
	DOMESTIC HOT WATER RETURN	HWR
V	VENT	V
G	GAS	G
MPG	MEDIUM PRESSURE GAS	MPG
LPG	LIQUID PROPANE GAS	LPG
S	SEWER	S
GW	GREASE WASTE	GW
AV	ACID VENT	AV
AW	ACID WASTE	AW
SD	STORM DRAIN	SD
RD	ROOF DRAIN	RD
OD	OVERFLOW DRAIN	OD
C	CONDENSATE DRAIN	C
SCD	SECONDARY CONDENSATE DRAIN	SCD
T&P	TEMPERATURE & PRESSURE RELIEF	T&P
D	DRAIN	D
FS	FIRE SPRINKLER	FS
	PIPE CAP	
	PIPE RISER / DROP	(RV(D)
	SHUT-OFF VALVE IN BOX	SOV
FCO	FLOOR CLEANOUT	FCO
COTG	CLEANOUT TO GRADE	COTG
	WALL CLEANOUT	WCO
	CLEANOUT	CO
	HOSE BIBB	HB
	OVERFLOW DRAIN OUTLET	
	BALL VALVE	BV
	GATE VALVE	GV
	CHECK VALVE	CHK.V
	MIXING VALVE	TMV
	SHUT-OFF COCK	SOC
	CIRCULATION PUMP	CP
	BALANCING VALVE	BLV
	TRAP PRIMER	TP
	PRESSURE REDUCING VALVE	PRV
	GAS PRESSURE REGULATOR	GPR
EV	AUTOMATIC EARTHQUAKE VALVE	EV
	TYPICAL	(TYP)
	VENT THRU ROOF	VTR
	UNDERGROUND	UG
	UNDER FLOOR	UF
	ABOVE CEILING	AB.C.
	TO ABOVE / BELOW	TA / TB
	FROM ABOVE / BELOW	FA / FB
	CONTINUATION	CONT.
	NEW	(N)
	EXISTING	(E)
	POINT OF DIS/CONNECTION	POD / POC
	DEMOLISHED/DEMO	

PLUMBING SPECIFICATIONS

1. THIS CONTRACTOR SHALL COMPLY WITH ALL CODES AND REGULATIONS IN EFFECT AT THE JOB SITE, INCLUDING, BUT NOT LIMITED TO:
   A. 2025 CALIFORNIA ADMINSTRATIVE CODE
   B. 2022 CALIFORNIA BUILDING CODE
   C. 2022 CALIFORNIA MECHANICAL CODE
   D. 2022 CALIFORNIA PLUMBING CODE
   E. 2022 CALIFORNIA ELECTRICAL CODE
   F. 2022 CALIFORNIA GREEN BUILDING STANDARDS
   G. 2022 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS - TITLE 24
   H. NATIONAL FIRE PROTECTION ASSOCIATION
   I. CALIFORNIA STATE FIRE MARSHAL
2. DRAWINGS ARE SCHEMATIC AND DIAGRAMMATIC. DRAWINGS INDICATE THE GENERAL ARRANGEMENT OF EQUIPMENT, PIPING, AND OTHER PLUMBING WORK. USE JUDGEMENT AND CARE TO INSTALL PLUMBING WORK TO FIT THE JOB CONDITIONS WITHIN THE BUILDING CONSTRUCTION AND FINISHES, AND TO FUNCTION PROPERLY.
3. CONTRACTOR SHALL EXAMINE THE SITE, VERIFY DIMENSIONS AND LOCATIONS WITH DRAWINGS, CHECK UTILITY CONNECTION LOCATIONS, AND FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS AND LIMITATIONS. NO EXTRAS WILL BE ALLOWED BECAUSE OF THE CONTRACTOR'S MISUNDERSTANDING OF THE AMOUNT OF WORK INVOLVED OR HIS LACK OF KNOWLEDGE OF ANY SITE CONDITION WHICH MAY AFFECT HIS WORK. ANY APPARENT VARIANCE OF THE DRAWINGS OR SPECIFICATIONS FROM THE EXISTING CONDITIONS AT THE SITE SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
4. THIS CONTRACTOR SHALL ORGANIZE HIS WORK SO THAT THE PROGRESS OF THE PLUMBING WORK WILL CONFORM TO THE PROGRESS OF THE OTHER TRADES, AND SHALL COMPLETE THE ENTIRE INSTALLATION AS SOON AS THE CONDITIONS OF THE BUILDING WILL PERMIT. ANY COST RESULTING FROM DEFECTIVE OR ILL TIMED WORK PERFORMED UNDER THIS SECTION SHALL BE BORNE BY THIS CONTRACTOR.
5. THE WORK SHALL ALSO INCLUDE THE COMPLETION OF DETAILS OF PLUMBING WORK NOT MENTIONED OR SHOWN WHICH ARE NECESSARY FOR THE SUCCESSFUL OPERATION OF PLUMBING SYSTEMS DESCRIBED ON THE DRAWINGS OR REQUIRED BY THESE SPECIFICATIONS. FURNISH AND INSTALL ANY INCIDENTAL WORK NOT SHOWN OR SPECIFIED WHICH IS REQUIRED TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
6. ALL MATERIALS AND EQUIPMENT INSTALLED UNDER THIS CONTRACT SHALL BE GUARANTEED FREE FROM ALL MECHANICAL, ELECTRICAL AND WORKMANSHIP DEFECTS FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ALL DAMAGED ITEMS INSTALLED UNDER THIS CONTRACT WITHOUT ADDITIONAL COST TO OWNER.
7. THE PLUMBING CONTRACTOR SHALL PROVIDE THE OWNER COPIES OF OPERATION, MAINTENANCE AND PREVENTATIVE MAINTENANCE MANUALS FOR EACH MODEL AND TYPE OF PLUMBING EQUIPMENT.
8. SUBMIT MANUFACTURER'S PRODUCT DATA INCLUDING NAME OF MANUFACTURER, TRADE NAME, MODEL, CAPACITY, OPTIONS, DIMENSIONS, WEIGHTS, INSTALLATION AND STARTUP DATA. EQUIPMENT PERFORMANCES SCHEDULED ARE MINIMUM CAPACITY, FLOW, EFFICIENCY, ETC. REQUIRED. WEIGHTS AND ELECTRICAL DATA SCHEDULED IS MAXIMUM AVAILABLE OR ALLOWABLE.
9. ALL EQUIPMENT IS TO BE INSTALLED AS RECOMMENDED BY THE MANUFACTURER. USING ALL ACCESSORY EQUIPMENT AVAILABLE FROM THE MANUFACTURER FOR SUPPORTS, CONTROLS, ETC., TO MAKE A COMPLETE SYSTEM. ALL EQUIPMENT OR ACCESSORIES NEEDED AND NOT SHOWN OR SPECIFIED SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR. ADJUST THE EQUIPMENT FOR PROPER OPERATION, CHECK ALL CONTROLS AND VERIFY THAT ALL SAFETY DEVICES ARE FUNCTIONING PROPERLY.
10. PROVIDE ACCESS DOORS WHERE ACCESS THROUGH FLOORS, WALLS OR CEILINGS IS REQUIRED TO ACCESS PLUMBING COMPONENTS OR OTHER SYSTEMS REQUIRING ACCESS FOR MAINTENANCE, TESTING OR OBSERVATION. COORDINATE THE EXACT TYPE AND LOCATION OF ACCESS DOORS TO PROVIDE PROPER ACCESS TO THE ITEM CONCEALED.
11. CHECK ALL SYSTEMS FOR LEAKS AND EXCESSIVE NOISE. CORRECT ANY DEFICIENCIES AS SOON AS DISCOVERED. OPERATE THE SYSTEMS AS A TEST AND DEMONSTRATE TO THE OWNER THAT THE SYSTEM IS FUNCTIONING PROPERLY.
12. INSTALL PIPING TO ALLOW FOR EXPANSION AND CONTRACTION WITHOUT STRESSING PIPE, JOINTS, OR CONNECTED EQUIPMENT.
13. PLUMBING EQUIPMENT AND PIPING SHALL NOT BE WITHIN ELECTRICAL OR LOW VOLTAGE EQUIPMENT DEDICATED SPACE. NO PIPING WILL BE ALLOWED ABOVE EQUIPMENT'S DEDICATED SPACE.
14. ALL EXPOSED MATERIAL SHALL BE PREPARED WITH A PRIME COAT AND THEN PAINTED, COLOR BY ARCHITECT.
15. NEW BUILDINGS 10,000 SQUARE FEET AND ABOVE TO BE COMMISSIONED PER REQUIREMENTS LISTED IN CALGREEN SECTION 5.410.2.
16. ADHESIVES, SEALANTS AND CAULKS USED ON THE PROJECT SHALL MEET THE REQUIREMENTS LISTED IN CALGREEN SECTION 5.504.4.1.
17. FOR NEW BUILDINGS IN EXCESS OF 50,000 SQUARE FEET, OR WATER CONSUMPTION IN EXCESS OF 1,000 GAL/DAY, PROVIDE WATER SUB-METERS AS REQUIRED PER CALGREEN SECTION 5.303.1.1.
18. PLUMBING FIXTURES (WATER CLOSETS AND URINALS) AND FITTINGS (FAUCETS AND SHOWERHEADS) SHALL COMPLY WITH WATER CONSERVING REQUIREMENTS LISTED IN CALGREEN SECTION 5.303.3.
19. COORDINATE ALL NEW OR CHANGING UTILITY SERVICES WITH UTILITY PROVIDER AS SOON AS POSSIBLE. ANY COST RESULTING FROM WORK PERFORMED PRIOR TO COORDINATING WITH UTILITY COMPANY WHICH DOES NOT COMPLY WITH UTILITY COMPANY REQUIREMENTS SHALL BE BORNE BY THIS CONTRACTOR.
20. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS, FIXTURE MOUNTING HEIGHTS AND CBC ACCESSIBILITY REQUIREMENTS.

PLUMBING SHEET INDEX

SHEET NUMBER	SHEET NAME
P-001	PLUMBING LEGEND AND NOTES
P-002	PLUMBING SCHEDULES
P-101	PLUMBING SITE PLAN
P-201	PLUMBING - WATER PLAN
P-202	PLUMBING - WASTE&VENT PLAN
P-221	PLUMBING - ROOF PLAN
P-222	PLUMBING - ROOF DRAIN CALCULATION PLAN
P-301	PLUMBING - ENLARGED FLOOR PLANS
P-801	PLUMBING DETAILS
P-802	PLUMBING DETAILS

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DIV. OF THE STATE ARCHITECT
APP: 03-125726 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/28/2026

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SHAFTER, CA 93263

DRAWING SUBMITTAL SCHEDULE

100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO:22434-E-02

PLUMBING LEGEND AND NOTES

P-001

4/6/2026 8:52:59 AM Autodesk Docs://KHSD - Central Valley Continuation HS/24-2161 Central Valley CHS_MEP_FP_F_R23.rvt

WATER AND WASTE MAINS CALCULATIONS

JOB NAME: Central Valley HS - North DATE 02/23/26

USE	FIXTURE TYPE	NO.	WASTE		WATER			
					BOTH	CW	HW	
			FU	TOTAL	FU	FU	FU	TOTAL
U	DRINKING FOUNTAIN	1	0.5	0.5	0.5	0.5		0.5
	HOSE BIBB (FIRST)	1			2.5	2.5		2.5
	HOSE BIBB (ADDITIONAL)	10			1	1.0		10
	LAVATORY (SINGLE)	8	1	8	1	0.8	0.8	8
U	SERVICE SINK	1	3	3	3	2.3	2.3	3
	FLOOR DRAIN	7	2	14				0
	FLOOR SINK RECEPTOR	3	3	9				0
U	SINK, 2" TRAP	2	4	8	2	1.5	1.5	4
U	WATER CLOSET, FLUSH VALVE	12	4	48	5	5		60
	3-COMPARTMENT SINK	1	4	4	2	1.5	1.5	2
	TOTAL FIXTURE UNITS			94.5			12.8	90.0

EQUIVALENT COLD WATER FLOW RATE (GPM):	65
ADDITIONAL WATER DEMAND LOAD (GPM)	
AVAILABLE STATIC PRESSURE IN WATER MAIN (PSI)	53
MINIMUM REQUIRED FIXTURE PRESSURE (PSI):	25
ELEVATION RISE (FT):	5
METER LOSS (PSI):	4.0
BACKFLOW PREVENTER LOSS (PSI):	11.0
ADDITIONAL LOSSES (PSI):	0
EQUIVALENT PIPE LENGTH FROM METER TO MOST REMOTE FIXTURE (FT):	500
FRICTION LOSS PRESSURE AVAILABLE (PSI):	10.83
MAXIMUM ALLOWABLE FRICTION LOSS (PSI/100 FT):	2.17
WATER FLOW VELOCITY (FPS):	4.38
CALCULATED FRICTION HEAD LOSS (PSI/100 FT):	1.56
MINIMUM REQUIRED 'WATER' PIPE SIZE (INCHES)(BASED ON TYPE L CU):	2.5
MINIMUM REQUIRED 'WASTE' PIPE SIZE (INCHES):	4
(CALCULATIONS PER THE UPC/CPC)	

WATER PIPE SIZING CHART (COPPER)

PIPE SIZES CALCULATED BASED ON UPC/CPC APPENDIX A

SIZE: TYPE L COPPER		COLD WATER				HOT WATER		
NOMINAL DIAMETER	INTERNAL DIAMETER	GPM	FIXTURE UNITS FPS	FIXTURE UNITS TANK	FIXTURE UNITS VALVE	GPM	FPS	FIXTURE UNITS
1/2"	0.545	1.5	2.0	**1**	**0**	1.5	2.0	**1**
3/4"	0.785	3.8	2.5	**4**	**0**	3.8	2.5	**4**
1"	1.025	7.7	3.0	**10**	**0**	7.7	3.0	**10**
1-1/4"	1.265	13.4	3.4	**18**	**0**	13.4	3.4	**18**
1-1/2"	1.505	21.2	3.8	**32**	**0**	21.2	3.8	**32**
2"	1.985	44.0	4.6	**103**	**35**	44.0	4.6	**103**
2-1/2"	2.465	77.7	5.2	**264**	**140**	74.4	5.0	**245**

WATER AND WASTE MAINS CALCULATIONS

JOB NAME: Central Valley HS - South DATE 11/06/25

USE	FIXTURE TYPE	NO.	WASTE		WATER			
					BOTH	CW	HW	
			FU	TOTAL	FU	FU	FU	TOTAL
U	DRINKING FOUNTAIN	1	0.5	0.5	0.5	0.5		0.5
	HOSE BIBB (FIRST)	1			2.5	2.5		2.5
	HOSE BIBB (ADDITIONAL)	10			1	1.0		10
	LAVATORY (SINGLE)	3	1	3	1	0.8	0.8	3
U	SERVICE SINK	1	3	3	3	2.3	2.3	3
	FLOOR DRAIN	4	2	8				0
	FLOOR SINK RECEPTOR	1	3	3				0
U	SINK, 2" TRAP	12	4	48	2	1.5	1.5	24
U	WATER CLOSET, FLUSH VALVE	3	4	12	5	5		15
	TOTAL FIXTURE UNITS			77.5			22.5	58.0

EQUIVALENT COLD WATER FLOW RATE (GPM):	54
ADDITIONAL WATER DEMAND LOAD (GPM)	
AVAILABLE STATIC PRESSURE IN WATER MAIN (PSI)	53
MINIMUM REQUIRED FIXTURE PRESSURE (PSI):	25
ELEVATION RISE (FT):	5
METER LOSS (PSI):	4.0
BACKFLOW PREVENTER LOSS (PSI):	11.0
ADDITIONAL LOSSES (PSI):	0
EQUIVALENT PIPE LENGTH FROM METER TO MOST REMOTE FIXTURE (FT):	450
FRICTION LOSS PRESSURE AVAILABLE (PSI):	10.83
MAXIMUM ALLOWABLE FRICTION LOSS (PSI/100 FT):	2.41
WATER FLOW VELOCITY (FPS):	3.61
CALCULATED FRICTION HEAD LOSS (PSI/100 FT):	1.09
MINIMUM REQUIRED 'WATER' PIPE SIZE (INCHES)(BASED ON TYPE L CU):	2.5
MINIMUM REQUIRED 'WASTE' PIPE SIZE (INCHES):	4
(CALCULATIONS PER THE UPC/CPC)	

WATER PIPE SIZING CHART (COPPER)

PIPE SIZES CALCULATED BASED ON UPC/CPC APPENDIX A

SIZE: TYPE L COPPER		COLD WATER				HOT WATER		
NOMINAL DIAMETER	INTERNAL DIAMETER	GPM	FIXTURE UNITS FPS	FIXTURE UNITS TANK	FIXTURE UNITS VALVE	GPM	FPS	FIXTURE UNITS
1/2"	0.545	1.6	2.1	**1**	**0**	1.6	2.1	**1**
3/4"	0.785	4.1	2.7	**4**	**0**	4.1	2.7	**4**
1"	1.025	8.2	3.2	**10**	**0**	8.2	3.2	**10**
1-1/4"	1.265	14.2	3.6	**20**	**0**	14.2	3.6	**20**
1-1/2"	1.505	22.5	4.1	**34**	**5**	22.5	4.1	**34**
2"	1.985	46.6	4.8	**115**	**42**	46.6	4.8	**115**
2-1/2"	2.465	82.3	5.5	**284**	**158**	74.4	5.0	**245**

PIPE HANGER SCHEDULE

MATERIALS	TYPES OF JOINTS	HORIZONTAL	VERTICAL
CAST-IRON HUBLESS	CAST-IRON HUBLESS	EVERY OTHER JOINT, UNLESS OVER 4 FEET THEN SUPPORT EACH JOINT; NOTES 1,2,3,4	BASE AND EACH FLOOR, NOT TO EXCEED 15 FEET
COPPER TUBE AND PIPE	SOLDERED OR BRAZED	1-1/2 INCHES AND SMALLER, 6 FEET; 2 INCHES AND LARGER, 10 FEET	EACH FLOOR, NOT TO EXCEED 10 FEET; NOTE 5
STEEL PIPE FOR GAS	THREADED OR WELDED	1/2 INCH, 6 FEET; 3/4 INCH AND 1 INCH, 8 FEET; 1-1/4 INCHES AND LARGER, 10 FEET; NOTE 7	1/2 INCH, 6 FEET; 3/4 INCH AND 1 INCH, 8 FEET; 1-1/4 INCHES AND LARGER, EVERY FLOOR; NOTE 7
SCHEDULE 40 PVC AND ABS DWV	SOLVENT CEMENTED	ALL SIZES, 4 FEET; ALLOW FOR EXPANSION EVERY 30 FEET; NOTES 3,6	BASE AND EACH FLOOR; PROVIDE MID-STORY GUIDES; PROVIDE FOR EXPANSION EVERY 30 FEET; NOTE 6

NOTES:
1. HANGER SPACING PER CPC TABLE 313.3.
2. SEISMIC BRACING SPACING NOT TO EXCEED 40FT O.C. AND 2FT FROM CHANGES IN DIRECTION.
3. SEISMIC BRACING IS NOT REQUIRED FOR THE FOLLOWING CONDITIONS PER CBC 1617A.1.26 AND ASCE 7, SECTION 13.6.7.3 (EXCEPTION 2):
   A. PIPING CONTAINING HAZARDOUS CONTENTS (EX: NATURAL GAS, PROPANE, MEDICAL GASES) WITH AN Ip>1.0 WHERE:
      a. PIPE SIZE IS 1" OR LESS, AND
      b. PIPE IS SUPPORTED BY INDIVIDUAL HANGER NOT EXCEEDING 12", AND
      c. TOTAL WEIGHT SUPPORTED BY INDIVIDUAL HANGER IS 50 POUNDS OR LESS.
   B. ALL OTHER PIPING NOT CONTAINING HAZARDOUS CONTENTS WITH AN Ip=1.0 WHERE:
      a. PIPE SIZE IS 3" OR LESS, AND
      b. PIPE IS SUPPORTED BY INDIVIDUAL HANGER NOT EXCEEDING 12", AND
      c. TOTAL WEIGHT SUPPORTED BY INDIVIDUAL HANGER IS 50 POUNDS OR LESS.
4. SUPPORT ADJACENT TO JOINT, NOT TO EXCEED 18".
5. SUPPORT AT EACH HORIZONTAL BRANCH CONNECTION.
6. HANGERS SHALL NOT BE PLACED ON THE COUPLING.
7. SEE THE APPROPRIATE IAPMO INSTALLATION STANDARD FOR EXPANSION AND OTHER SPECIAL REQUIREMENTS.

HANGER ROD SIZING

PER 2022 CPC TABLE 313.6

PIPE AND TUBE SIZE (IN)	ROD SIZE (IN)
1/2"ø - 4"ø	3/8"ø
5"ø - 8"ø	1/2"ø
10"ø -12"ø	5/8"ø

RAINWATER PIPE SIZING

PROJECT LOCATION	SHAFTER, CA
MAXIMUM RAINFALL RATE	3"/HR

ROOF DRAIN SIZE (IN INCHES)	MAXIMUM ALLOWABLE HORIZONTAL PROJECTED ROOF AREA FOR ROOF DRAIN, LEADERS & VERTICAL RAINWATER PIPING	MAXIMUM ALLOWABLE HORIZONTAL PROJECTED ROOF AREA FOR HORIZONTAL RAINWATER (SLOPE: 1/4" = 1'-0")	MAXIMUM ALLOWABLE HORIZONTAL PROJECTED ROOF AREA FOR HORIZONTAL RAINWATER (SLOPE: 1/8" = 1'-0")
2"	960 SQ FT	N/A	N/A
3"	2,930 SQ FT	1,546 SQ FT	1,096 SQ FT
4"	6,130 SQ FT	3,533 SQ FT	2,506 SQ FT
6"	17,995 SQ FT	10,066 SQ FT	7,133 SQ FT
8"	38,660 SQ FT	21,733 SQ FT	15,330 SQ FT

* AS PER 2022 CALIFORNIA PLUMBING CODE TABLE 1103.1 & 1103.2

KITCHEN EQUIPMENT SCHEDULE

EQUIP. NO.	DESCRIPTION	S or W	IND. WASTE	V	CW	HW	GAS (MBH)
7	DECK MOUNT FAUCET	---	---	---	3/4"	3/4"	---
8	PREP SINK	---	1-1/2"	---	---	---	---
10	ADA HAND SINK	2"	---	1-1/2"	3/4"	3/4"	---
12	3-COMP SINK	---	2"	---	---	---	---
13	PRE-RINSE WITH FAUCET	---	---	---	3/4"	3/4"	---
18	RETHERMALIZER / HOLD CABINET	---	1/2"	---	1/2"	---	---
25	GARBAGE DISPOSER	---	2"	---	1/2"	---	---

NOTES:
1. COORDINATE CLOSELY WITH KITCHEN EQUIPMENT COMPANY FOR EQUIPMENT LOCATIONS, CONNECTION SIZES AND REQUIREMENTS.
2. SEE KITCHEN EQUIPMENT PLANS FOR EQUIPMENT SCHEDULE AND REQUIREMENTS.
3. PROVIDE INDIVIDUAL SHUT-OFF VALVES AT ALL CW, HW & GAS CONNECTIONS.
4. PROVIDE QUICK DISCONNECT WITH CABLE RESTRAINT FOR ALL GAS EQUIPMENT CONNECTIONS PER KITCHEN EQUIPMENT PLANS.
5. COORDINATE WITH KITCHEN EQUIPMENT PLUMBING PLAN FOR PLUMBING ROUGH-IN DIMENSIONS.

WHA SIZING

FIXTURE TYPE	FIXTURE UNITS (PER FIXTURE)
WATER CLOSET	8
URINAL	4
LAVATORY	2

PDI SIZE	FIXTURE UNITS (PER ARRESTOR)
A	1-11
B	12-32
C	33-60
D	61-113
E	114-154
F	155-330

NOTES:
1. PROVIDE WATER HAMMER ARRESTORS AS REQUIRED.
2. WATER HAMMER ARRESTOR SIZING SHALL BE THE MORE STRINGENT OF THE TABLE ABOVE AND CURRENT PDI (PLUMBING & DRAINAGE INSTITUTE) REQUIREMENTS.
3. LOCATE WATER HAMMER ARRESTORS AS CLOSE TO BRANCH PIPING AS POSSIBLE.

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	S or W	V	CW	HW	DESCRIPTION
BFP-1	BACKFLOW PREVENTER	---	---	SEE PLAN FOR SIZE	---	WATTS SERIES LF7 POINT OF USE LEAD-FREE DOUBLE CHECK VALVE.
CWD-1	CAN WASH DRAIN	2"	1-1/2"	---	---	JR SMITH #3371 CAN WASH FLOOR DRAIN, 14 GAUGE STAINLESS STEEL BODY & GRATE, FLASHING RIM & CLAMP, ALUMINUM BUCKET, ADJUSTABLE BRONZE NOZZLE.
CWV-1	CAN WASH VALVE	---	---	3/4"	3/4"	JR SMITH #3380 RECESSED CONTROL BOX, 304 STAINLESS STEEL. POTABLE WATER SUPPLY PROTECTED BY THE INTEGRAL ATMOSPHERIC VACUUM BREAKER USED TO SUPPLY HOT, COLD OR TEMPERED WATER TO CAN WASHING DRAINS. BOTH THE HOT AND COLD WATER SUPPLIES ARE PROVIDED WITH INTEGRAL SCREW DRIVER STOPS ALLOWING MAINTENANCE OF THE CONTROL VALVES WITHOUT SHUTTING DOWN THE MAIN WATER SUPPLY.
DF-1	DRINKING FOUNTAIN (CBC ACCESS)	2"	1-1/2"	3/4"	---	HAWS #1119.14, VANDAL RESISTANT BI-LEVEL DRINKING FOUNTAIN, 14 GA. 304 STAINLESS STEEL, PUSHBUTTON ACTIVATION, PROVIDE WALL MOUNT BRACKET. HAWS #1920 BOTTLE FILLER WITH #BP32 32" STAINLESS STEEL BACK PANEL, PROVIDE WALL MOUNTING PLATE. INSTALL PER CBC ACCESSIBILITY REQUIREMENTS. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT.
DN-1	DOWNSPOUT NOZZLE	3"	---	---	---	ZURN MODEL Z199-DC, STAINLESS STEEL DOWNSPOUT COVER WITH HINGED PERFORATED COVER.
FD-1	FLOOR DRAIN	2"	1-1/2"	TP	---	ZURN MODEL 145B, 5" DIAMETER ROUND NICKEL BRONZE TOP WITH 2" PIPE, FLANGE AND SEEPAGE PAN. PROVIDE TRAP PRIMER CONNECTION.
FD-2	FLOOR DRAIN	3"	2"	TP	---	ZURN MODEL 145B, 5" DIAMETER ROUND NICKEL BRONZE TOP WITH 3" PIPE, FLANGE AND SEEPAGE PAN. PROVIDE TRAP PRIMER CONNECTION.
FS-1	FLOOR SINK	2"	1-1/2"	TP	---	ZURN MODEL Z1902, COATED CAST IRON, ACID RESISTANT PAINTED INTERIOR, 12" SQUARE TOP WITH 1/2 GRATE, 10" DEEP SUMP, DOUBLE DRAINAGE FLANGE BOTTOM CAULK OUTLET, & DOME STRAINER. PROVIDE TRAP PRIMER CONNECTION.
HB-1	HOSE BIBB	---	---	3/4"	---	ARROWHEAD #38PLF, COMMERCIAL SILLCOCKS WITH #58ABP REPLACEMENT VACUUM BREAKER, #PK1300 REPLACEMENT LOOSE KEY, AND #AC58 COMMERCIAL SILLCOCK WALL BOX, NICKEL PLATED BRASS.
HB-2	HOSE BIB	---	---	3/4"	---	ARROWHEAD #38PLF, COMMERCIAL SILLCOCKS WITH #58ABP REPLACEMENT VACUUM BREAKER, #PK1300 REPLACEMENT LOOSE KEY.
HB-3	ROOF HYDRANT	---	---	3/4"	---	ARROWHEAD #38PLF, COMMERCIAL SILLCOCKS WITH #58ABP REPLACEMENT VACUUM BREAKER, #PK1300 REPLACEMENT LOOSE KEY, AND LOCK SHIELD BONNET.
JS-1	JANITOR'S SINK	3"	2"	3/4"	3/4"	STERN WILLIAMS SB-500, FLOOR MOUNTED TERRAZZO SERVICE SINK, 36"x36"x12" WITH STERN WILLIAMS T-35 HOSE AND BRACKET AND T-40 STAINLESS STEEL MOP HANGER. PROVIDE CHICAGO MODEL 897-RCF LEVER HANDLE FAUCET WITH VACUUM BREAKER, PAIL HOOK AND WALL BRACE.
L-1	LAVATORY (CBC ACCESS)	2"	1-1/2"	3/4"	3/4"	AMERICAN STANDARD MODEL 0356.421, "LUCERNE" ADA COMPLIANT WALL HUNG 20"X18" VITREOUS CHINA LAVATORY, SINGLE HOLE FOR CHICAGO MODEL E80-A11A-11ABCP BATTERY SENSOR TOUCHLESS FAUCET WITH 0.5 GPM NON-AERATING. PROVIDE THERMOSTATIC MIXING VALVE. PROVIDE SUPPLIES, STOPS AND 17 GAGE CHROME PLATED BRASS P-TRAP. WRAP SUPPLIES, STOPS AND P-TRAP PER CBC ACCESS REQUIREMENTS. INSTALL PERE CBC ACCESS REQUIREMENTS.
L-2	LAVATORY (CBC ACCESS)	2"	1-1/2"	3/4"	---	AMERICAN STANDARD MODEL 0356.421, "LUCERNE" ADA COMPLIANT WALL HUNG 20"X18" VITREOUS CHINA LAVATORY, SINGLE HOLE FOR CHICAGO MODEL 3500-E280SABCP METERING FAUCET WITH 0.5 GPM NON-AERATOR, PROVIDE SUPPLIES, STOPS AND 17 GAGE CHROME PLATED BRASS P-TRAP. WRAP SUPPLIES, STOPS AND P-TRAP PER CBC ACCESS REQUIREMENTS. INSTALL PERE CBC ACCESS REQUIREMENTS.
RD-1	ROOF & OVERFLOW DRAIN	3"	---	---	---	ZURN MODEL Z163, COMBINATION ROOF & OVERFLOW DRAIN COMPLETE WITH CAST IRON BODIES AND MEMBRANE CLAMPS, DOUBLE TOP-SET DECK PLATE. MINIMUM 2" WATER DAM FOR OVERFLOW PIPE.
S-1	SINK (CBC ACCESS)	2"	1-1/2"	3/4"	3/4"	KEWAUNEE #1005-ADA-DI, COUNTER MOUNTED LABORATORY SINK, BLACK EPOXY RESIN, SINGLE COMPARTMENT UNIT WITH 25"X15"X4.8" DEEP BOWL. PROVIDE CHICAGO FAUCET MODEL #LWM1-A13-H, SINGLE HOLE DECK MOUNTED DUAL-INLET WATER FAUCET, 8" RIGID GOOSENECK SPOUT WITH LABORATORY NOZZLE, VACUUM BREAKER AND 4" WRIST BLADE HANDLE. PROVIDE VANDAL RESISTANT PIN. PROVIDE ZURN MODEL Z9A-PHIX POLYPROPYLENE ACID NEUTRALIZER TRAP BELOW SINK WITH MEDIA AND WASHABLE FILTER, MAXIMUM 8 GPM CAPACITY. PROVIDE LEAD FREE ANGLE STOPS. INSTALL PER ADA ACCESS REQUIREMENTS.
S-2	SINK (CBC ACCESS)	2"	1-1/2"	3/4"	3/4"	"JUST" #SL-ADA-2131-A-65-J, ADA COMPLIANT SELF RIMMING COUNTER MOUNTED SINK, 18 GAUGE TYPE 304 STAINLESS STEEL SINGLE COMPARTMENT UNIT WITH 28"X16"X6-1/2" DEEP BOWL, RIGHT REAR DRAIN, 2 HOLE CENTER PUNCH 4" CENTER FOR CHICAGO FAUCET 895-317FCABCP FAUCET, PROVIDE 1.5 GPM AERATOR. PROVIDE ADA OFFSET DRAIN, SUPPLIES, STOPS AND P-TRAP. PROVIDE MIFAB MI-SOLID-S CAST IRON SOLID INTERCEPTOR.
S-3	SINK (CBC ACCESS)	2"	1-1/2"	3/4"	3/4"	"JUST" #SL-ADA-2131-A-65-J, ADA COMPLIANT SELF RIMMING COUNTER MOUNTED SINK, 18 GAUGE TYPE 304 STAINLESS STEEL SINGLE COMPARTMENT UNIT WITH 28"X16"X6-1/2" DEEP BOWL, RIGHT REAR DRAIN, 1 HOLE CENTER PUNCH FOR AMERICAN STANDARD #4433.100.F15 SINGLE CONTROL KITCHEN FAUCET WITH PULL-OUT SPRAY, 1.5 GPM AERATOR. PROVIDE ADA OFFSET DRAIN, SUPPLIES, STOPS AND P-TRAP. PROVIDE BADGER 5 INSINKERATOR GARBAGE DISPOSER WITH 120v/1Ø/60Hz, 1/2 HP ELECTRICAL SERVICE.
S-4	SINK (CBC ACCESS)	2"	1-1/2"	3/4"	3/4"	"JUST" #SL-ADA-2131-A-65-J, ADA COMPLIANT SELF RIMMING COUNTER MOUNTED SINK, 18 GAUGE TYPE 304 STAINLESS STEEL SINGLE COMPARTMENT UNIT WITH 28"X16"X6-1/2" DEEP BOWL, RIGHT REAR DRAIN, 2 HOLE CENTER PUNCH 4" CENTER FOR CHICAGO FAUCET 895-317FCABCP FAUCET, PROVIDE 1.5 GPM AERATOR. PROVIDE ADA OFFSET DRAIN, SUPPLIES, STOPS AND P-TRAP.
SB-1	SUPPLY BOX	---	---	1/2"	---	PRECISION PLUMBING PRODUCTS, INC. #MM500PIMB, RECESSED PLASTIC WATER SUPPLY BOX WITH 1/4 TURN SHUT-OFF VALVE, WATER HAMMER ARRESTOR AND 1/2" SWEAT CONNECTION. UNIT IS AB1953 COMPLIANT.
TMV-1	THERMOSTATIC MIXING VALVE	---	---	3/4"	3/4"	LEONARD MODEL TM-26-LF THERMOSTATIC MIXING VALVE, CALIF. AB 1953 COMPLIANT, 3/4" INLETS & 3/4" OUTLET, 1.0 GPM MIN FLOW CAPACITY, 13 GPM MAX FLOW CAPACITY AT 15 PSI SYSTEM DROP. SET AT 110°F.
TP-1	TRAP PRIMER	---	---	1/2"	---	PRECISION PLUMBING PRODUCTS, INC. #PR-500 PRIME-RITE. PROVIDE PPP MODEL F-1212PC WALL ACCESS PANEL, PAINT ACCESS DOOR, COLOR BY ARCHITECT.
WC-1	WATER CLOSET (CBC ACCESS)	4"	2"	2"	---	AMERICAN STANDARD MODEL 3043.001 "MADERA FLOWISE" ADA COMPLIANT FLOOR MOUNTED VITREOUS CHINA ELONGATED BOWL, 1.28 GPF WITH SLOAN G2 8111-1.28 SENSOR FLUSHOMETER, BATTERY OPERATED. PROVIDE OLSONITE 10CC-SS OPEN FRONT SEAT WITH SELF-SUSTAINING CHECK HINGE.
WHA-1	WATER HAMMER ARRESTER	---	---	1"	---	SIOUX CHIEF SERIES 650, TYPE "L" COPPER TUBE PISTON TYPE WATER HAMMER ARRESTOR, SUITABLE FOR CONCEALED INSTALLATION, SIZE PER PDI REQUIREMENTS. ASSE 1010 LISTED. INSTALL PER MANUFACTURER RECOMMENDATIONS. PROVIDE 12"X12" WALL ACCESS PANEL PER SPECIFICATIONS, FINISH BY ARCHITECT.

PLUMBING EQUIPMENT SCHEDULE

TYPE	MARK	FIXTURE	S or W	V	CW	HW	DESCRIPTION
CP	1	CIRCULATION PUMP	---	---	---	3/4"	BELL & GOSSETT MODEL ECOCIRC XL 20-35, IN-LINE WET ROTOR CIRCULATION PUMP WITH LEAD-FREE BRONZE BODY, UNION CONNECTION, 5 GPM FLOW AT 10 FT TDH, 1/12 HP, 1.3 FLA, 115V/1ø ELECTRICAL SERVICE. INTEGRAL CONTROLLER SHALL CONTROL PUMP SPEED TO MAINTAIN 120°F WATER TEMPERATURE. UL LISTED TO UL 778; UL 1004-1, 1004-7; and UL 60730-1.
CP	2	CIRCULATION PUMP	---	---	---	3/4"	BELL & GOSSETT MODEL ECOCIRC XL 20-35, IN-LINE WET ROTOR CIRCULATION PUMP WITH LEAD-FREE BRONZE BODY, UNION CONNECTION, 5 GPM FLOW AT 10 FT TDH, 1/12 HP, 1.3 FLA, 115V/1ø ELECTRICAL SERVICE. INTEGRAL CONTROLLER SHALL CONTROL PUMP SPEED TO MAINTAIN 120°F WATER TEMPERATURE. UL LISTED TO UL 778; UL 1004-1, 1004-7; and UL 60730-1.
ET	1	EXPANSION TANK	---	---	3/4"	---	BELL & GOSSETT MODEL PT-5, STEEL SHELL, BUTYL DIAPHRAGM TYPE EXPANSION TANK PRE-CHARGED TO 40 PSI WITH 2.0 GALLON TANK CAPACITY, 0.9 GALLON ACCEPTANCE CAPACITY. MAX OPERATING WEIGHT 22 LBS.
ET	2	EXPANSION TANK	---	---	3/4"	---	BELL & GOSSETT MODEL PT-5, STEEL SHELL, BUTYL DIAPHRAGM TYPE EXPANSION TANK PRE-CHARGED TO 40 PSI WITH 2.0 GALLON TANK CAPACITY, 0.9 GALLON ACCEPTANCE CAPACITY. MAX OPERATING WEIGHT 22 LBS.
EWH	1	ELECTRIC WATER HEATER	---	---	1-1/4"	1-1/4"	A.O. SMITH MODEL #DSE-65A-30, STORAGE TANK TYPE, 65 GALLON CAPACITY, 137 GPH RECOVERY AT 90°F RISE. (2) 15 KW SIMULTANEOUS ELEMENT OPERATION, 30 KW MAXIMUM. 480v/3ø, FLA: 36.1, ELECTRICAL SERVICE. UL LISTED. OPERATING WEIGHT 1,000 LBS.
EWH	2	ELECTRIC WATER HEATER	---	---	1-1/2"	1-1/2"	A.O. SMITH MODEL #DEL-30-12, STORAGE TANK TYPE, 30 GALLON CAPACITY, 54 GPH RECOVERY AT 90°F RISE. (2) 6 KW SIMULTANEOUS ELEMENT OPERATION, 12 KW MAXIMUM. 480v/3ø, FLA: 21.6/12.5, ELECTRICAL SERVICE. UL LISTED. OPERATING WEIGHT 415 LBS. PROVIDE WITH HOLDRITE QUICK STAND #50-SWHP-WM WALL MOUNT PLATFORM (600 LBS. MAX. TOTAL WEIGHT).
GI	1	GREASE INTERCEPTOR	4"	2"	---	---	SCHIER MODEL GB-75, 125 GAL. CAPACITY GREASE INTERCEPTOR, 75 GPM FLOW AND 861 LBS GREASE CAPACITY, WITH (1) 24" H-20 TRAFFIC RATED GAS TIGHT MANHOLE COVERS BROUGHT TO GRADE.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125726 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/28/2026

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Job #: 24-2161

REGISTERED PROFESSIONAL ENGINEER
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REN. 03-31-27
MECHANICAL
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KERN HIGH SCHOOL DISTRICT
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BAKERSFIELD, CA 93309

CENTRAL VALLEY CONTINUATION HIGH SCHOOL CAMPUS
526 MANNEL AVENUE
SHAFTER, CA 93263

DRAWING SUBMITTAL SCHEDULE

100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO:22434-E-02

PLUMBING SCHEDULES

P-002

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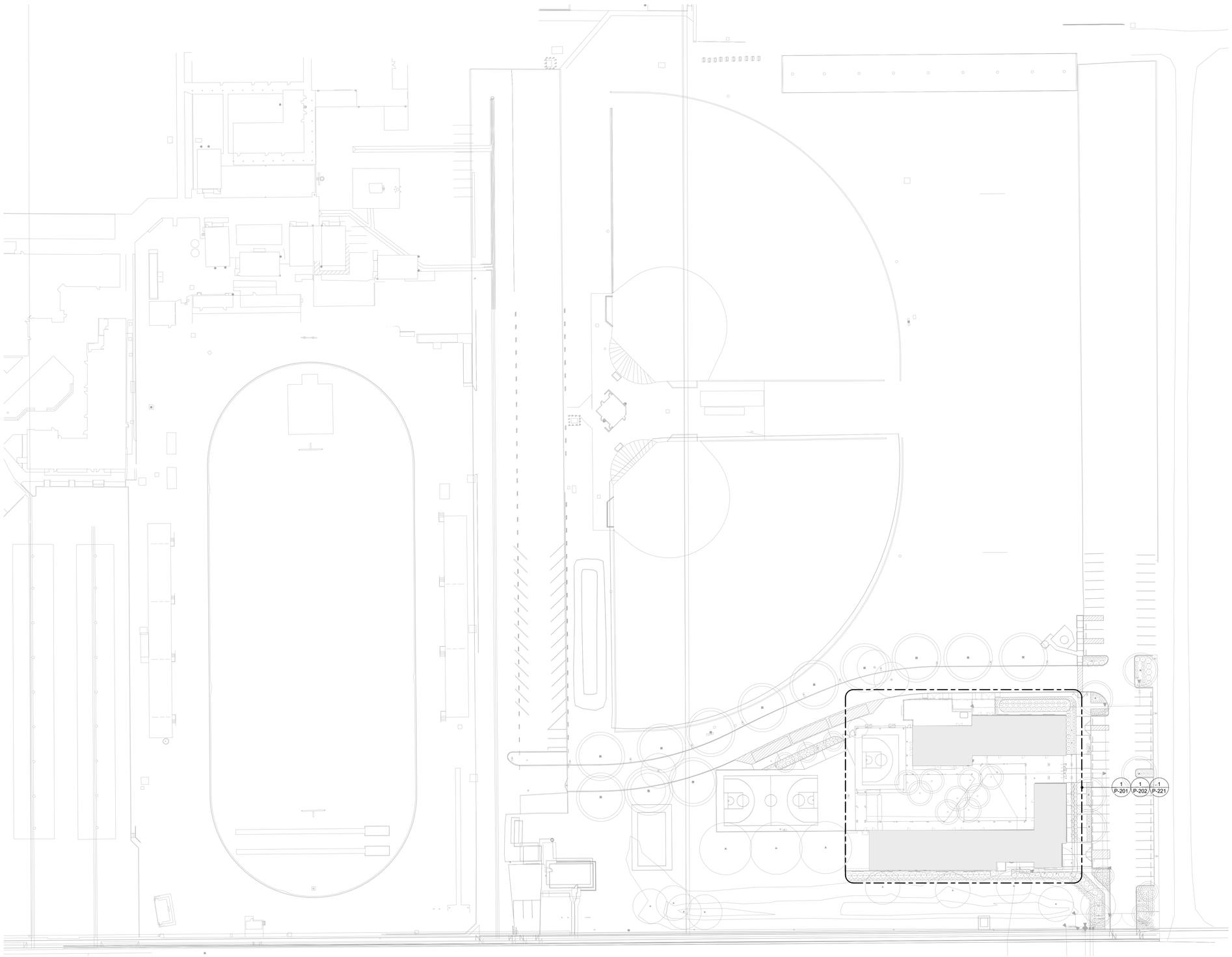

1 **PLUMBING SITE PLAN**
SCALE: 1" = 40'-0"

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DRAWING SUBMITTAL SCHEDULE	
100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO:22434-E-02

PLUMBING SITE PLAN

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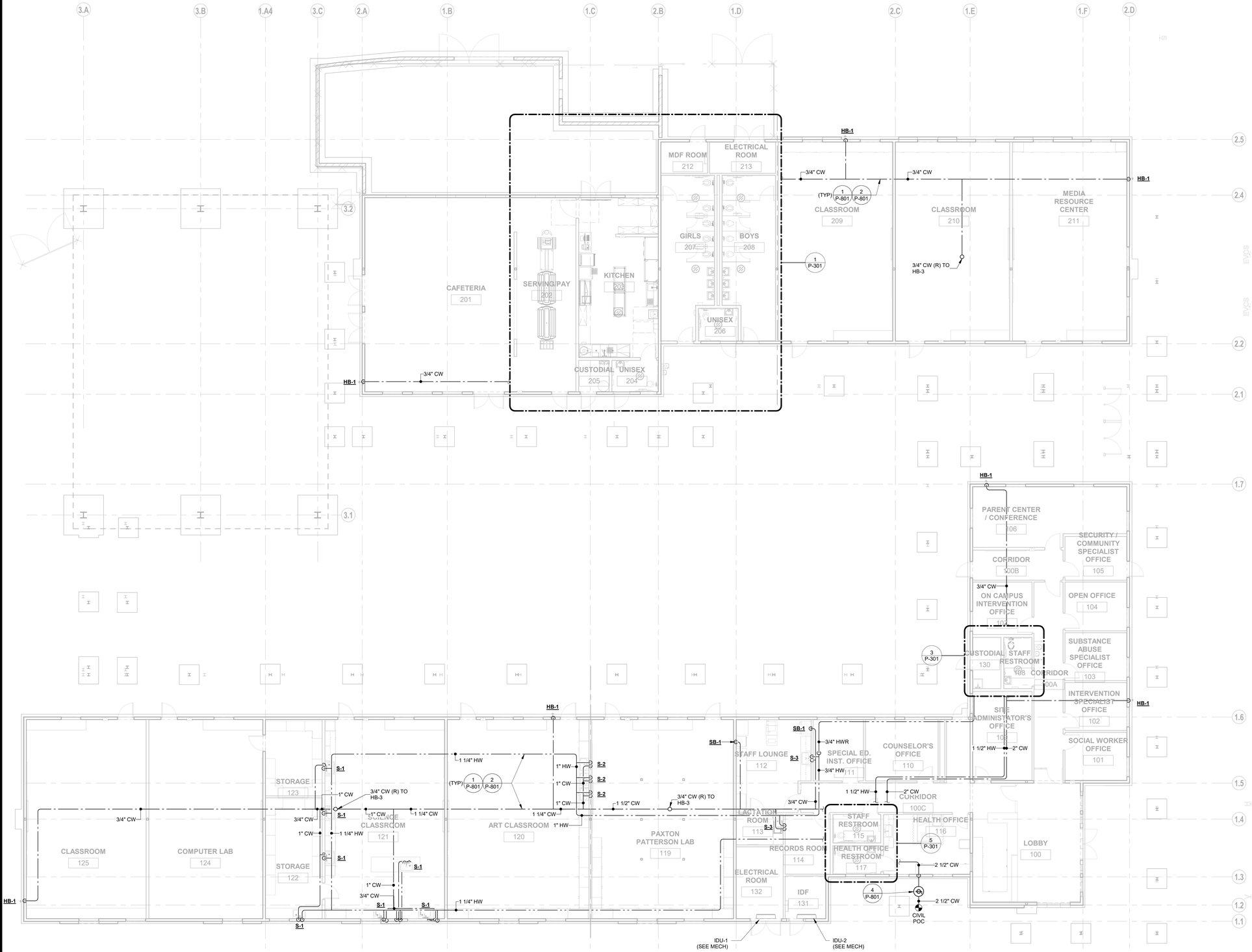
KEY NOTES

(#)



1 **PLUMBING - WATER PLAN**
SCALE: 1/8" = 1'-0"

IDENTIFICATION STAMP
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DRAWING SUBMITTAL SCHEDULE	
100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO: 22434-E-02

PLUMBING - WATER PLAN

P-201

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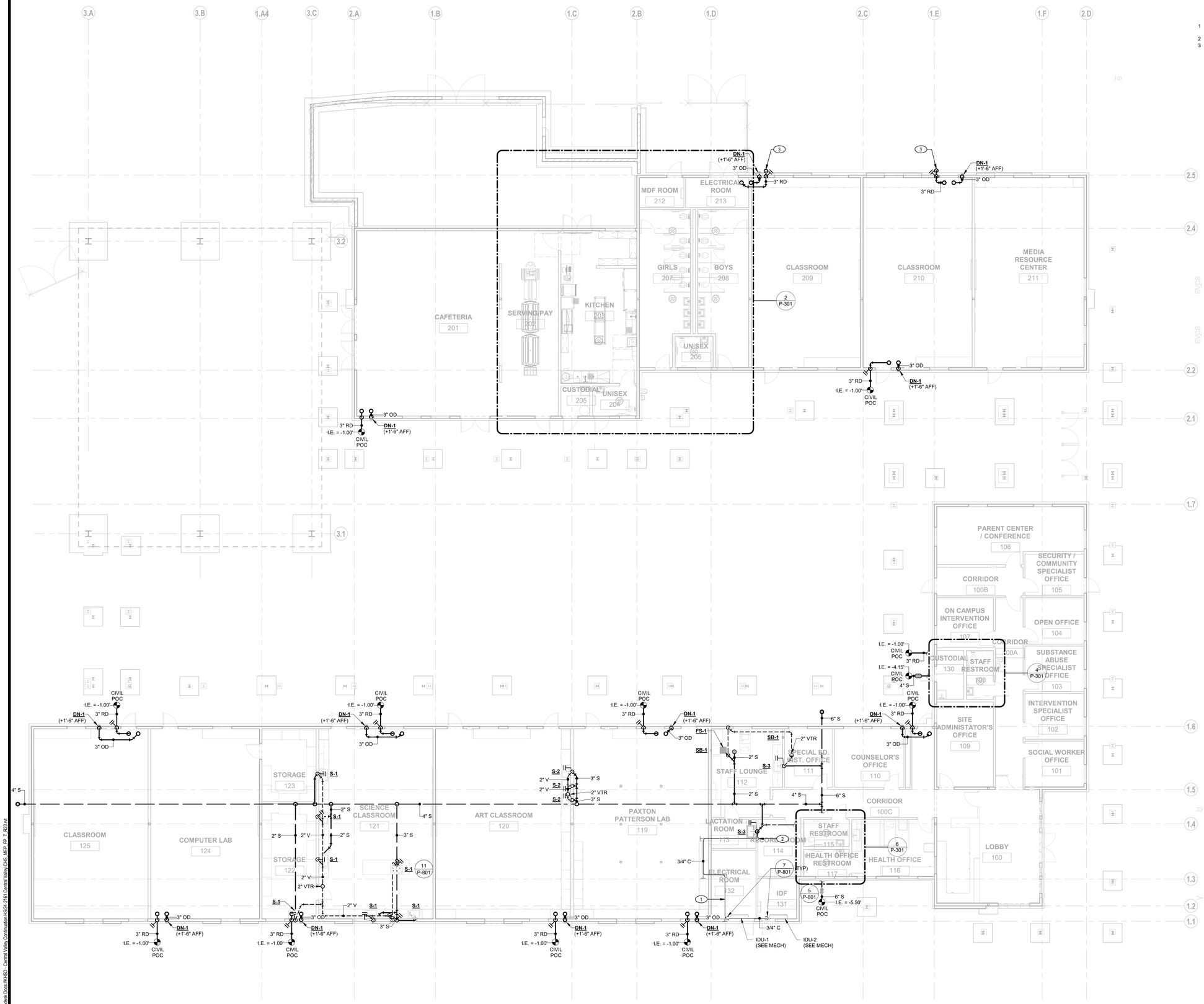

KEY NOTES

#	
1	CONDENSATE PIPING SHALL NOT BE ROUTED DIRECTLY OVER ELECTRICAL EQUIPMENT.
2	DISCHARGE CONDENSATE DRAIN AT SINK TAILPIECE.
3	DRAIN ROOF DRAIN ONTO SPLASH BLOCK AND INTO DEPRESSED PLANTER. SEE CIVIL DRAWINGS.

1 PLUMBING - WASTE&VENT PLAN

SCALE: 1/8" = 1'-0"

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DATE: 04/28/2026

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DRAWING SUBMITTAL SCHEDULE

100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO: 22434-E-02

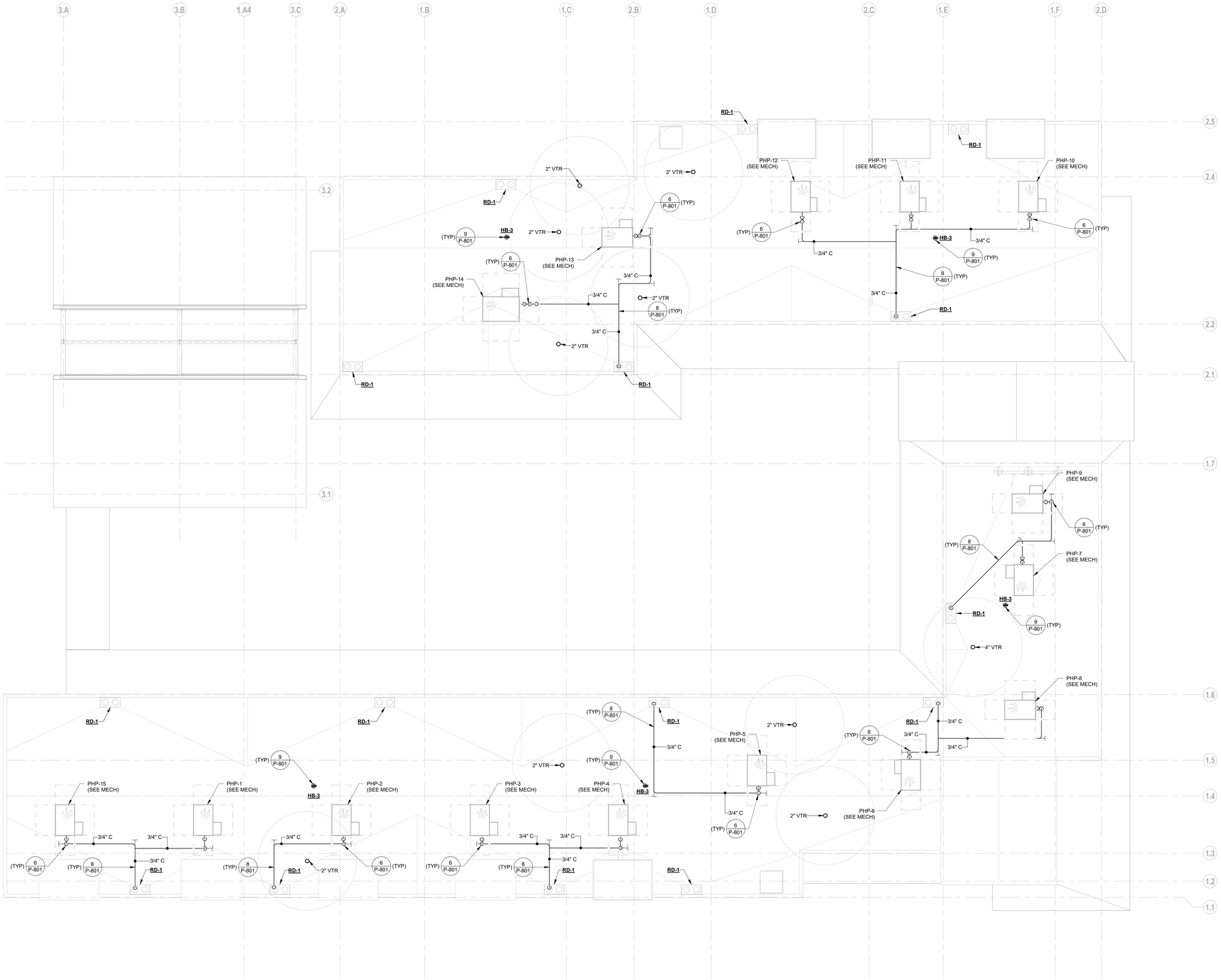
PLUMBING - WASTE&VENT PLAN

P-202

Autodesk Docs://KHSD_Central Valley Continuation HS/24-2161 Central Valley CHS_MEP_FP_T_R23.rvt
4/16/2026 8:53:35 AM

KEY NOTES

(#)



1 PLUMBING ROOF PLAN

SCALE: 1/8" = 1'-0"

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PROJECT NO: 22434-E-02

PLUMBING - ROOF PLAN

P-221

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KEY NOTES

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1 **PLUMBING ROOF DRAIN CALCULATION PLAN**
SCALE: 1/8" = 1'-0"

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PLUMBING - ROOF DRAIN CALCULATION PLAN

P-222

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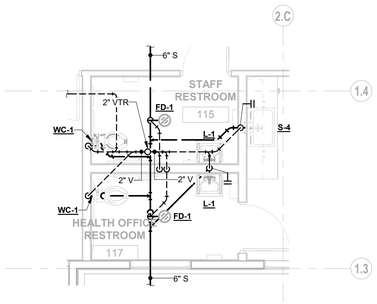
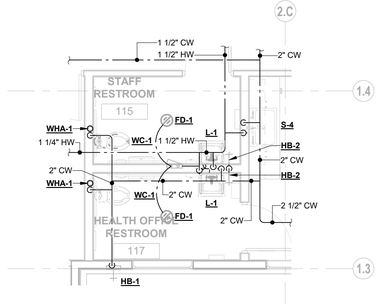


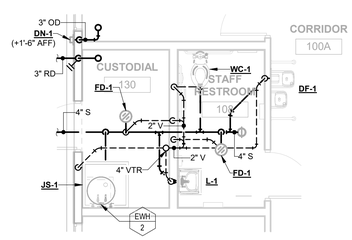
6 PLUMBING - ENLARGED WASTE & VENT

SCALE: 1/4" = 1'-0"



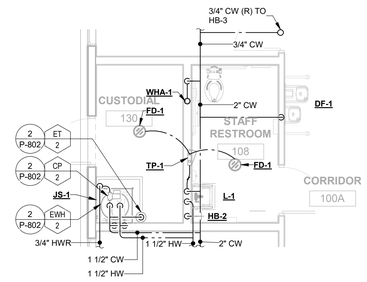
5 PLUMBING - ENLARGED WATER PLAN

SCALE: 1/4" = 1'-0"



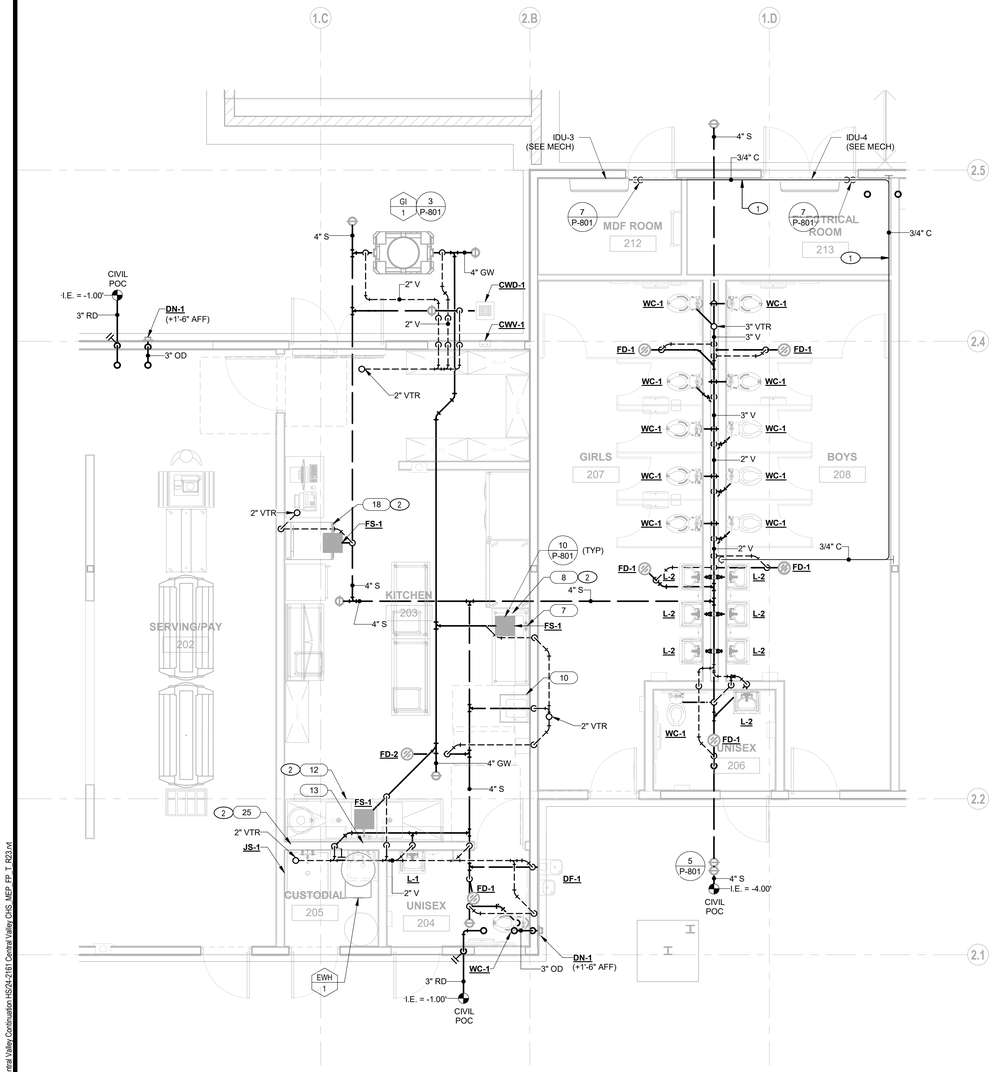
4 PLUMBING - ENLARGED WASTE & VENT

SCALE: 1/4" = 1'-0"



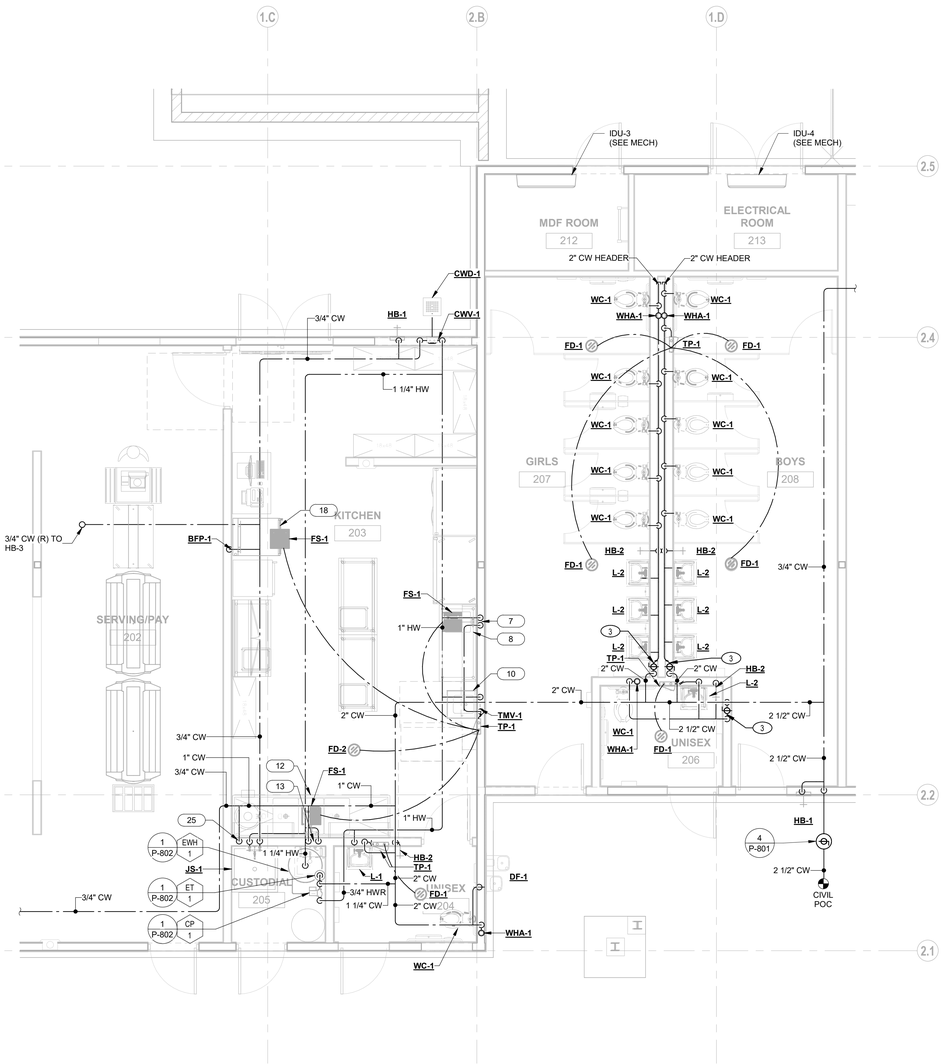
3 PLUMBING - ENLARGED WATER PLAN

SCALE: 1/4" = 1'-0"



2 PLUMBING - ENLARGED WASTE & VENT PLAN

SCALE: 1/4" = 1'-0"



1 PLUMBING - ENLARGED WATER PLAN

SCALE: 1/4" = 1'-0"

KEY NOTES

(#)

1 CONDENSATE PIPING SHALL NOT BE ROUTED DIRECTLY OVER ELECTRICAL EQUIPMENT.
2 ROUTE FULL SIZE DRAIN FROM KITCHEN EQUIPMENT TO FLOOR SINK WITH AIR GAP. SEE FOOD SERVICE PLANS FOR ADDITIONAL INFORMATION.
3 INSTALL MAIN RESTROOM SHUT-OFF VALVE BEHIND 12X12 ACCESS PANEL. COORDINATE LOCATION WITH ARCHITECTURAL INTERIOR ELEVATIONS.

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PLUMBING - ENLARGED FLOOR PLANS

P-301

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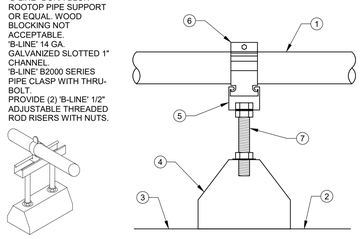
1. PIPING ON ROOF.
2. PVC SINGLE PLY PROTECTION MATERIAL.
3. ROOFING MATERIAL.
4. 'B-LINE' 'DURA-BLOK' ROOTOP PIPE SUPPORT OR EQUAL. WOOD BLOCKING NOT ACCEPTABLE.
5. 'B-LINE' 14 GA. GALVANIZED SLOTTED 1" CHANNEL.
6. 'B-LINE' B2000 SERIES PIPE CLASP WITH THRU-BOLT.
7. PROVIDE (2) 'B-LINE' 1/2" ADJUSTABLE THREADED ROD RISERS WITH NUTS.

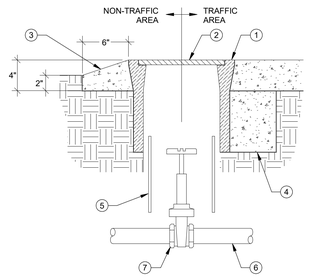
NOTES:
A. PROVIDE PIPE SUPPORT AT MAXIMUM SPACING OF 8 FT.



ISOMETRIC VIEW

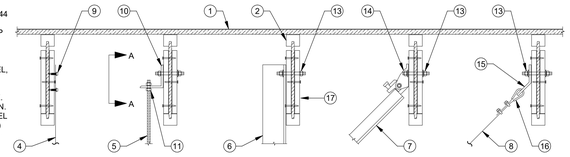
CONDENSATE PIPE SUPPORT ON ROOF — NTS — 8

1. PRECAST CONCRETE VALVE BOX, CHRISTY G05, OR EQUAL
2. H20 TRAFFIC RATED LID WITH LABEL "WATER"
3. TAPERED CONCRETE CIRCULAR COLLAR
4. 6" CONCRETE COLLAR
5. 8" SCH 40 PVC RISER PIPE WHERE NECESSARY
6. COLD WATER SUPPLY
7. SHUT-OFF GATE VALVE WITH RISING STEM OR KEY-NUT

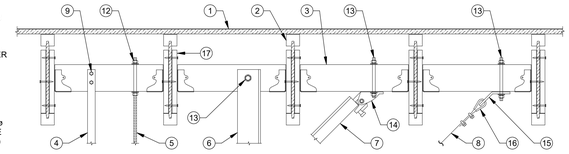


CW SHUT-OFF VALVE — NTS — 4

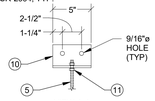
1. FLOOR/ROOF, SEE STRUCTURAL DRAWINGS.
2. FLOOR/ROOF FRAMING, SEE STRUCTURAL DRAWINGS.
3. 4x4 BLOCKING BETWEEN JOISTS W/ U44 HANGERS AT EACH END, TYP.
4. 1" x 20 GA. GALV. SHEET METAL STRAP
5. 3/8"ø THREADED ROD, B-LINE ATR OR EQUAL.
6. 3"x3"x1/4" GALVANIZED STEEL ANGLE.
7. 1-5/8"x1-5/8"x12 GA UNISTRUT CHANNEL, B-LINE B22 OR EQUAL.
8. 3/32"ø PRE-STRETCHED GALVANIZED AIRCRAFT CABLE, 7x19 STRAND CORE.
9. (2) #12 x 2" WOOD SCREWS, 2" O.C. MIN.
10. 3"x3"x1/4" x 5" LONG GALVANIZED STEEL ANGLE, ATTACH TO FRAMING WITH (2) 1/2"ø BOLTS OR THREADED ROD WITH NUTS AND WASHER.
11. NUT, TOP AND BOTTOM.
12. NUT AND WASHER, TOP AND BOTTOM.
13. 3/8"ø THREADED ROD THROUGH SUPPORT MEMBER WITH NUT AND WASHER EA END, 6" MIN TO END OF JOIST.
14. UNIVERSAL SWAY BRACE UPPER ATTACHMENT, B-LINE TOLCO FIG. 980 OR EQUAL.
15. 2"x3"x 1/4" x 1-5/8" WIDE GALVANIZED STEEL ANGLE, B-LINE MODEL B154 OR EQUAL.
16. CABLE THIMBLE AND CABLE CLIPS.
17. 2x WEB STIFFENER FILLER BLOCKING, BOTH SIDES OF I-JOIST, INSTALL FILLER BLOCKING AND NAILS PER STRUCTURAL DRAWINGS AND ICC ESR-2994, TYP.



AT FRAMING MEMBERS



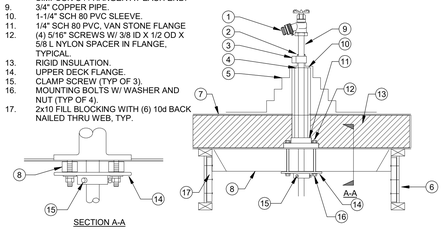
BETWEEN FRAMING MEMBERS



VIEW A-A

HANGER UPPER ATTACHMENTS — NTS — 1

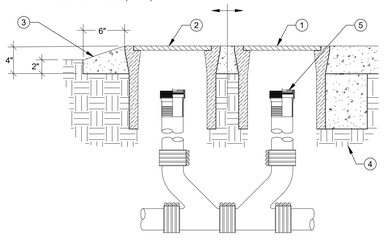
1. HOSE BIBB W/ VACUUM BREAKER.
2. VOLCOM, WEATHER SEAL.
3. STAINLESS STEEL HOSE CLAMP.
4. FILL ANNULAR SPACE WITH FOAM.
5. ROOF JACK.
6. TJI ROOF FRAMING, SEE STRUCTURAL.
7. SINGLE-PLY ROOF MATERIAL.
8. (2) 4x4 BLOCKING BETWEEN JOISTS W/ SIMPSON U44 HANGER AT EACH END.
9. 3/4" COPPER PIPE.
10. 1-1/4" SCH 80 PVC SLEEVE.
11. 1/4" SCH 80 PVC, VAN STONE FLANGE
12. (4) 5/16" SCREWS W/ 3/8 ID X 1/2 OD X 5/8 L NYLON SPACER IN FLANGE, TYPICAL
13. RIGID INSULATION.
14. UPPER DECK FLANGE.
15. CLAMP SCREW (TYP OF 3).
16. MOUNTING BOLTS W/ WASHER AND NUT (TYP OF 4).
17. 2x10 FILL BLOCKING WITH (6) 10d BACK NAILED THRU WEB, TYP.



SECTION A-A

ROOF HYDRANT — NTS — 9

1. PRECAST CONCRETE VALVE BOX WITH CAST IRON LID LABELED "SEWER", CHRISTY G05, OR EQUAL FOR TRAFFIC AREAS
2. PRECAST CONCRETE VALVE BOX WITH CONCRETE LID LABELED "SEWER", CHRISTY F08, OR EQUAL FOR NON-TRAFFIC AREAS
3. TAPERED CONCRETE CIRCULAR COLLAR
4. 6" CONCRETE COLLAR
5. CLEAN-OUT PLUG (TYP 2)



TWO-WAY CLEANOUT (COTG) — NTS — 5

1. PIPE, SEE PLAN FOR SIZE AND ROUTING.
2. PIPE INSULATION WHERE APPLICABLE, SEE SPECIFICATIONS. PROVIDE INSULATION PROTECTION SADDLE, MIN. 12" LONG, B-LINE B3151 OR EQUAL. MAY BE SUBSTITUTED FOR PRE-INSULATED CALCIUM SILICATE SHIELD SUPPORT, B-LINE B338 OR EQUAL.
3. STANDARD CLEVIS PIPE HANGER, COATED OR PLATED TO ISOLATE HANGER FROM DISSIMILAR METAL PIPING, B-LINE B3100 OR EQUAL.
4. ADJUSTABLE 'J' PIPE HANGER, COATED OR PLATED TO ISOLATE HANGER FROM DISSIMILAR METAL PIPING, B-LINE B3690 OR EQUAL.
5. 3/8"ø THREADED ROD, B-LINE ATR OR EQUAL.
6. 1-5/8"x1-5/8"x12 GA UNISTRUT CHANNEL, B-LINE B22 OR EQUAL.
7. ROD STIFFENER, B-LINE TOLCO MODEL 98B OR EQUAL, MIN. 1" FROM TOP AND BOTTOM OF UNISTRUT AND MAX. 28" O.C., TORQUE TO 10 FT-LBS.
8. 3/32"ø PRE-STRETCHED GALVANIZED AIRCRAFT CABLE, 7x19 STRAND CORE.
9. 2"x3"x14" X 1-5/8" WIDE GALVANIZED STEEL ANGLE, B-LINE MODEL B154 OR EQUAL.
10. CABLE THIMBLE AND CABLE CLIPS.
11. NUT AND WASHER, TOP AND BOTTOM.
12. NUT, TOP AND BOTTOM WITH UNISTRUT SQUARE WASHER, B-LINE MODEL B201ZN OR EQUAL.
13. PIPE CLAMP, B-LINE SERIES B2000 OR EQUAL.
14. LENGTH FROM PIPE SUPPORT POINT TO THE CONNECTION AT T HE SUPPORTING STRUCTURE NOT TO EXCEED 12".

NOTES:
A. HANGER SPACING PER CPC TABLE 313.3.
B. SEISMIC BRACING SPACING NOT TO EXCEED 40FT O.C. AND 2FT FROM CHANGES IN DIRECTION.
C. SEISMIC BRACING IS NOT REQUIRED FOR THE FOLLOWING CONDITIONS PER CBC 1617A.1.26 AND ASCE 7, SECTION 13.6.7.3 (EXCEPTION 2):
   a. PIPING CONTAINING HAZARDOUS CONTENTS (EX: NATURAL GAS, PROPANE, MEDICAL GASES) WITH AN Ip=1.0 WHERE:
      1. PIPE SIZE IS 1" OR LESS, AND
      2. PIPE IS SUPPORTED BY INDIVIDUAL HANGER NOT EXCEEDING 12", AND
      3. TOTAL WEIGHT SUPPORTED BY INDIVIDUAL HANGER IS 50 LBS OR LESS.
   b. ALL OTHER PIPING NOT CONTAINING HAZARDOUS CONTENTS WITH AN Ip=1.0 WHERE:
      1. PIPE SIZE IS 3" OR LESS, AND
      2. PIPE IS SUPPORTED BY INDIVIDUAL HANGER NOT EXCEEDING 12", AND
      3. TOTAL WEIGHT SUPPORTED BY INDIVIDUAL HANGER IS 50 LBS OR LESS.
D. PROVIDE ROD STIFFENERS ONLY WHERE ROD LENGTH FROM SEISMIC BRACING TO UPPER ATTACHMENT EXCEEDS 18".

SEISMIC SUPPORT

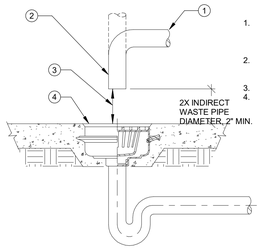
NON-SEISMIC SUPPORT

VIEW A-A

VIEW B-B

SEISMIC TRAPEZE SUPPORT

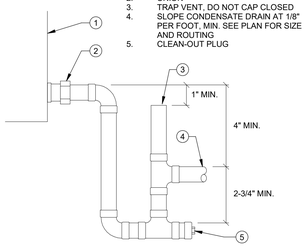
PIPE HANGER DETAIL — NTS — 2



1. SEE PLUMBING FLOOR PLAN FOR PIPE ROUTING AND EQUIPMENT LAYOUT.
2. INDIRECT WASTE DRAIN PIPE. SEE DRAWINGS FOR PIPE SIZE.
3. AIR GAP.
4. FLOOR SINK. SEE PLUMBING FIXTURE SCHEDULE.

INDIRECT WASTE DETAIL — NTS — 10

1. MECHANICAL EQUIPMENT
2. UNION
3. TRAP VENT, DO NOT CAP CLOSED
4. SLOPE CONDENSATE DRAIN AT 1/8" PER FOOT, MIN. SEE PLAN FOR SIZE AND ROUTING
5. CLEAN-OUT PLUG



CONDENSATE DRAIN CONNECTION — NTS — 6

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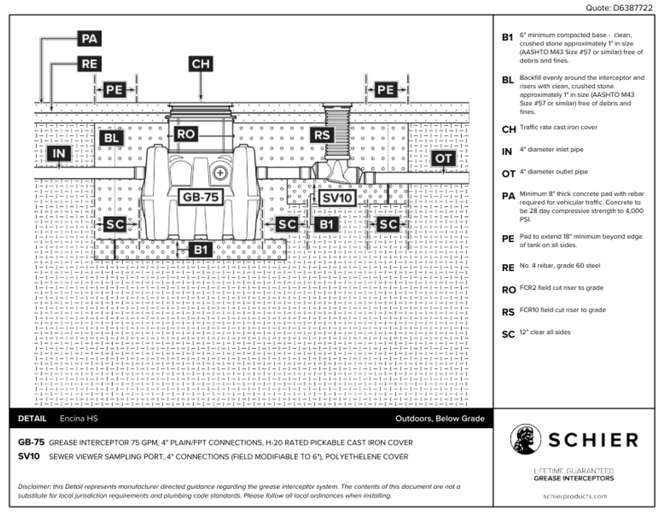
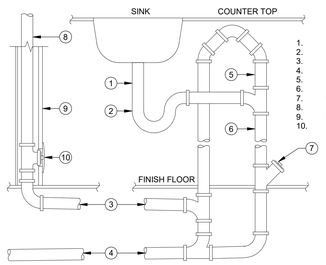


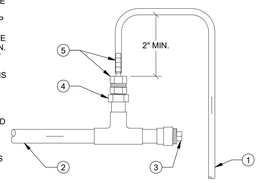
GREASE INTERCEPTOR DETAIL — NTS — 3



1. 1-1/2" WASTE
2. "P" TRAP
3. 1-1/2" VENT BELOW FLR
4. 2" WASTE BELOW FLR
5. 1-1/2" VENT
6. 2" WASTE
7. CLEAN-OUT
8. 1-1/2" VENT TO ROOF
9. NEAREST WALL TO SINK
10. 1-1/2" WALL CLEAN-OUT

ISLAND WASTE & VENT — NTS — 11

1. PUMPED CONDENSATE TUBING FROM CONDENSATE PUMP. PUMPED CONDENSATE TUBING ELEVATION NOT TO EXCEED PUMP LIFT CAPACITY
2. GRAVITY CONDENSATE PIPING SLOPED AT MIN. 1/8" PER LINEAR FOOT TO AN APPROVED RECEPTOR, SEE PLANS FOR SIZE AND ROUTING
3. CLEANOUT PLUG
4. THREADED UNION
5. BARBED TO THREADED CONNECTOR, COORDINATE SIZE WITH CONDENSATE PUMP REQUIREMENTS



NOTES:
A. PUMPED CONDENSATE CONNECTION TO GRAVITY PIPING TO BE AT TOP OF GRAVITY PIPING AS SHOWN.
B. INSTALL PUMPED CONDENSATE TUBING WITH LONG RADIUS TURNS AND WITHOUT KINKS PER MFGR'S INSTRUCTIONS.

IDU CONDENSATE DRAIN CONNECTION — NTS — 7

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PLUMBING DETAILS

P-801

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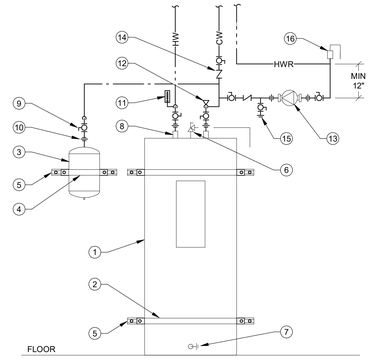
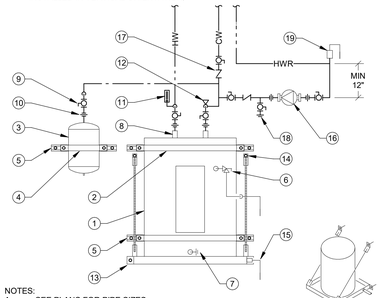
1. WATER HEATER, SEE PLUMBING SCHEDULE
2. (2) 1-1/2" WIDE, 24 GA. GALVANIZED SHEET METAL SEISMIC STRAPS AROUND WATER HEATER, (1) EACH AT UPPER AND LOWER THIRD OF WATER HEATER, SECURE TO UNISTRUT CHANNEL WITH 3/8"Ø BOLT, UNISTRUT SQUARE WASHER AND CHANNEL NUT EACH SIDE
3. EXPANSION TANK, SEE PLUMBING SCHEDULE
4. 1-1/2" WIDE, 24 GA. GALVANIZED SHEET METAL SEISMIC STRAP AROUND EXPANSION TANK, SECURE TO UNISTRUT CHANNEL WITH 3/8"∅ BOLT, UNISTRUT SQUARE WASHER AND CHANNEL NUT EACH SIDE
5. 1-5/8"X1-5/8"X12 GA. UNISTRUT CHANNEL, B-LINE B22 OR EQUAL, TYP, SECURE TO WALL STUDS WITH (2) 1/4" LAG SCREWS WITH MIN. 3" EMBED, (1) EACH END
6. ASME TEMPERATURE & PRESSURE RELIEF VALVE, ROUTE FULL SIZE DRAIN TO APPROVED INDIRECT RECEPTOR WITH MIN. 1" AIRGAP
7. WATER HEATER DRAIN VALVE
8. DIELECTRIC HEAT TRAP NIPPLE AT WATER HEATER HW & CW CONNECTIONS
9. ISOLATION VALVE, TYP
10. DIELECTRIC UNION, TYP
11. LEAD-FREE THERMOWELL THERMOMETER, TRERICE BX SERIES, OR EQUAL
12. LEAD-FREE VACUUM RELIEF VALVE, CSA AND ANSI Z12.22 LISTED, WATTS MODEL LFN36-M1, OR EQUAL
13. RECIRCULATION PUMP, SEE PLUMBING SCHEDULE
14. CHECK VALVE, TYP
15. HOSE BIBB WITH ISOLATION VALVE USED FOR BLEEDING AIR OUT OF PUMP FOR SYSTEM PRIMING PER CALIFORNIA ENERGY CODE
16. LEAD-FREE AUTOMATIC AIR VENT, B&G MODEL 87 OR EQUAL, INSTALL AT TOP OF MIN. 12" HIGH VERTICAL RISER AND NO MORE THAN 4FT FROM RECIRCULATION PUMP PER CEC, ROUTE FULL SIZE DRAIN TO APPROVED INDIRECT RECEPTOR WITH MIN. 1" AIRGAP (AUTOMATIC AIR VENT MAY BE OMITTED WHERE RECIRCULATION PUMP IS INSTALLED IN VERTICAL ORIENTATION)



NOTES:
A. SEE PLANS FOR PIPE SIZES.

ELECTRIC WATER HEATER DETAIL — NTS — 1

1. WATER HEATER, SEE PLUMBING SCHEDULE
2. (2) 1-1/2" WIDE, 24 GA. GALVANIZED SHEET METAL SEISMIC STRAPS AROUND WATER HEATER, (1) EACH AT UPPER AND LOWER THIRD OF WATER HEATER, SECURE TO UNISTRUT CHANNEL WITH 3/8"∅ BOLT, UNISTRUT SQUARE WASHER AND CHANNEL NUT EACH SIDE
3. EXPANSION TANK, SEE PLUMBING SCHEDULE
4. 1-1/2" WIDE, 24 GA. GALVANIZED SHEET METAL SEISMIC STRAP AROUND EXPANSION TANK, SECURE TO UNISTRUT CHANNEL WITH 3/8"∅ BOLT, UNISTRUT SQUARE WASHER AND CHANNEL NUT EACH SIDE
5. 1-5/8"X1-5/8"X12 GA. UNISTRUT CHANNEL, B-LINE B22 OR EQUAL, TYP, SECURE TO WALL STUDS WITH (2) 1/4" LAG SCREWS WITH MIN. 3" EMBED, (1) EACH END
6. ASME TEMPERATURE & PRESSURE RELIEF VALVE, ROUTE FULL SIZE DRAIN TO APPROVED INDIRECT RECEPTOR WITH MIN. 1" AIRGAP
7. WATER HEATER DRAIN VALVE
8. DIELECTRIC HEAT TRAP NIPPLE AT WATER HEATER HW & CW CONNECTIONS
9. ISOLATION VALVE, TYP
10. DIELECTRIC UNION, TYP
11. LEAD-FREE THERMOWELL THERMOMETER, TRERICE BX SERIES, OR EQUAL
12. LEAD-FREE VACUUM RELIEF VALVE, CSA AND ANSI Z12.22 LISTED, WATTS MODEL LFN36-M1, OR EQUAL
13. WALL MOUNTED SUPPORT STAND, MIN. 12 GA. GALVANIZED STEEL, HOLDRITE MODEL 50-SWHP-W, OR EQUAL, WITH MIN. 600 LB. WEIGHT CAPACITY
14. SECURE WATER HEATER SUPPORT STAND TO WALL WITH (4) 3/8"∅ SCREWS AND WASHERS WITH MIN. 3" EMBEDMENT, PROVIDE FULL HEIGHT DOUBLE STUDS AT CONNECTIONS
15. ROUTE RULL SIZE DRAIN FROM SUPPORT DRAIN PAN TO APPROVED INDIRECT RECEPTOR WITH MIN. 1" AIRGAP
16. RECIRCULATION PUMP, SEE PLUMBING SCHEDULE
17. CHECK VALVE, TYP
18. HOSE BIBB WITH ISOLATION VALVE USED FOR BLEEDING AIR OUT OF PUMP FOR SYSTEM PRIMING PER CALIFORNIA ENERGY CODE
19. LEAD-FREE AUTOMATIC AIR VENT, B&G MODEL 87 OR EQUAL, INSTALL AT TOP OF MIN. 12" HIGH VERTICAL RISER AND NO MORE THAN 4FT FROM RECIRCULATION PUMP PER CEC, ROUTE FULL SIZE DRAIN TO APPROVED INDIRECT RECEPTOR WITH MIN. 1" AIRGAP (AUTOMATIC AIR VENT MAY BE OMITTED WHERE RECIRCULATION PUMP IS INSTALLED IN VERTICAL ORIENTATION)



NOTES:
A. SEE PLANS FOR PIPE SIZES.
B. BOTTOM OF SUPPORT STAND TO BE MOUNTED AT +6'-6" AFF OR AS HIGH AS POSSIBLE. CONTRACTOR TO COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL AND OTHER TRADES.

ISOMETRIC VIEW

ELECTRIC WATER HEATER MOUNT ON PLATFORM — NTS — 2

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125726 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/28/2026

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BRYAN ENNIS
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REN. 03-31-27
MECHANICAL
STATE OF CALIFORNIA

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5801 SUNDALE AVE.
BAKERSFIELD, CA 93309

CENTRAL VALLEY
CONTINUATION HIGH SCHOOL CAMPUS
526 MANNEL AVENUE
SHAFTER, CA 93263

DRAWING SUBMITTAL SCHEDULE	
100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO:22434-E-02

PLUMBING DETAILS

P-802

4/6/2026 5:43:14 AM Autodesk Docs://KHSD -Central Valley Continuation HS/24-2161 Central Valley CHS_MEP_FP_V_R23.rvt

MEP COMPONENT ANCHORAGE NOTE

APPLICABLE CODE: 2022 CBC

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7 IN CHAPTERS 13, 26 AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

MEP DISTRIBUTION SYSTEM BRACING NOTE FOR PIPING, DUCTWORK, AND ELECTRICAL CONDUIT

APPLICABLE CODE: 2022 CBC PER IR 16-13.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7 SECTION 13.3 AS DEFINED IN ASCE 7 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE NOTED BELOW. THE MEP DESIGN PROFESSIONAL ENGINEER RESPONSIBLE FOR CONTENT ON THESE SHEETS HAS VERIFIED THAT THE DESIGN METHODS IDENTIFIED BELOW ARE IN ACCORDANCE WITH DSA IR 16-13.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP	MD	PP	E	
☐	☐	☐	☒	OPTION 1: PROJECT-SPECIFIC DESIGN.
MP	MD	PP	E	
☐	☐	☐	☐	OPTION 2: DESIGN BASED ON OSHPD OPM, WITHIN PROJECT SUBMITTAL.
MP	MD	PP	E	
☐	☐	☐	☐	OPTION 3: DESIGN BASED ON OSHPD OPM, DEFERRED SUBMITTAL.

UNDERGROUND TRENCHING NOTES

UNDERGROUND TRENCHING:

A. USE EXTREME CAUTION WHEN DIGGING TO AVOID BURIED ELECTRICAL CABLES. CALL UNDERGROUND SERVICE ALERT (U.S.A.) 800-277-2600, 48 HOURS BEFORE DIGGING.

B. BEFORE START OF ANY UNDERGROUND TRENCHING FOR CONDUIT RUNS, THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH ALL PLANS OR OTHER TRADES (ARCHITECTURAL, CIVIL, LANDSCAPE), AND SITE CONDITIONS TO AVOID CONFLICT.

C. TRENCHING AND BACKFILLING SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS. COORDINATE WITH CIVIL, LANDSCAPE AND ARCHITECTURAL SITE PLAN PRIOR TO THE TRENCHING, ETC. AND THE INSTALLATION OF THE ELECTRICAL SYSTEM.

D. ALL UNDERGROUND CONDUITS SHALL BE SCHEDULE 40 PVC, UL LISTED FOR DIRECT BURIAL, AND TERMINATED WITH FACTORY END BELL FITTINGS. ALL ELBOWS, BENDS AND TURNS TRANSITIONING TO GRADE SHALL BE INSTALLED USING PER MANUFACTURED 40-MIL PVC COATED GALVANIZED STEEL ELBOWS AND OFFSETS.

E. ALL UNDERGROUND SERVICE CONDUITS SHALL BE SEALED TO COMPLY WITH CEC 230.8.

F. PROVIDE 24" MINIMUM COVERAGE FOR UNDERGROUND CONDUITS, UNLESS OTHERWISE NOTED. THE EXCEPTION IS FOR UTILITY POWER COMPANY SERVICE CONDUITS WHICH SHALL HAVE A 36" MINIMUM SEPARATION BETWEEN THE POWER AND LOW VOLTAGE SYSTEM UNDERGROUND CONDUITS. TRENCHES SHALL ALL BE INSTALLED WITH A RED POLYETHYLENE WARNING RIBBON LABELED "ELECTRICAL", LOCATED 8" BELOW GRADE IN THE TRENCH.

G. PROVIDE UNDERGROUND TRACER WHERE NON-METAL CONDUITS ARE INSTALLED.

H. PROVIDE "PARTEX" IDENTIFICATION TAGS TO IDENTIFY UNDERGROUND CIRCUITS.

I. ALL UNDERGROUND SPLICES SHALL BE MADE WATERPROOF BY PROVIDING WITH "SPLICE-KOTE" SPLICE KITS OR OTHER ACCEPTED METHODS. ALL FUSE HOLDERS SHALL BE WATERTIGHT.

J. ALL UNDERGROUND RACEWAYS SHALL BE PROVIDED WITH A #8 AWG MINIMUM SIZE COPPER EQUIPMENT GROUNDING CONDUCTOR, WHETHER SHOWN ON PLAN OR NOT, UNLESS OTHERWISE NOTED.

K. THE CONTRACTOR SHALL BE RESPONSIBLE UNDER THIS CONTRACT TO REPAIR AND REPLACE ANY AND ALL DAMAGES TO EXISTING PCC (PORTLAND CEMENT CONCRETE) WALKS, AC PAVING, UTILITIES, TREES, TURF, PLANTED AREAS AND OTHER FACILITIES RESULTING FROM THIS PROJECT. WHEN CUTTING OR TRENCHING THROUGH EXISTING CONCRETE SIDEWALKS, DRIVEWAYS, AND WALKWAYS, THE CONTRACTOR SHALL BE REQUIRED TO COMPLETELY REPLACE ENTIRE SECTIONS OF CONCRETE PANELS FROM SCORE MARK TO SCORE MARK AFFECTED BY THE CONSTRUCTION WORK. ALL SIDEWALKS, DRIVEWAYS, AND WALKWAYS SHALL BE REPLACED TO MATCH ADJACENT CONDITION AND AS DIRECTED BY THE ARCHITECT.

OCCUPANCY AND DAYLIGHTING SENSOR NOTES

1. OCCUPANCY SENSORS AND DAYLIGHTING SENSORS SYSTEMS OPERATION:

   A. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND AIM SENSORS IN THE CORRECT LOCATION REQUIRED FOR COMPLETE AND PROPER VOLUMETRIC COVERAGE WITHIN THE RANGE OF COVERAGE(S) OF CONTROLLED AREAS PER THE MANUFACTURER'S RECOMMENDATIONS. ROOMS SHALL HAVE NINETY (90) TO ONE HUNDRED (100) PERCENT COVERAGE TO COMPLETELY COVER THE CONTROLLED AREA TO ACCOMMODATE OCCUPANCY HABITS OF SINGLE OR MULTIPLE OCCUPANTS AT ANY LOCATION WITHIN THE ROOM(S). THE LOCATIONS AND QUANTITIES OF SENSORS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE ONLY THE ROOMS THAT ARE TO BE PROVIDED WITH SENSORS. THE CONTRACTOR SHALL PROVIDE ADDITIONAL SENSORS IF REQUIRED TO PROPERLY AND COMPLETELY COVER THE RESPECTIVE ROOM.

   B. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE A PRE- INSTALLATION MEETING WITH MANUFACTURER'S FACTORY AUTHORIZED REPRESENTATIVE, AT THE OWNER'S FACILITY, TO VERIFY PLACEMENT OF SENSORS AND INSTALLATION CRITERIA.

   C. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE PROPER ADJUSTMENTS TO ASSURE OWNER'S SATISFACTION WITH THE OCCUPANCY SYSTEM. IF THE CONTRACTOR IS INCAPABLE TO MAKE PROPER ADJUSTMENTS, THE CONTRACTOR SHALL PROVIDE FACTORY SERVICE TECHNICIAN FROM MANUFACTURER'S RESPONSIBILITY TO VERIFY PROPER ADJUSTMENTS AND TRAIN OWNER'S PERSONNEL TO ENSURE OWNER'S SATISFACTION WITH THE OCCUPANCY SYSTEM.

   D. PROPER JUDGMENT MUST BE EXERCISED IN EXECUTING THE INSTALLATION SO AS TO ENSURE THE BEST POSSIBLE INSTALLATION IN THE AVAILABLE SPACE AND TO OVERCOME LOCAL DIFFICULTIES DUE TO SPACE LIMITATIONS OR INTERFERENCE OF STRUCTURAL COMPONENTS. THE CONTRACTOR SHALL ALSO PROVIDE, AT THE OWNER'S FACILITY, THE TRAINING NECESSARY TO FAMILIARIZE THE OWNER'S PERSONNEL WITH THE OPERATION, USE, ADJUSTMENT, AND PROBLEM SOLVING DIAGNOSIS OF THE OCCUPANCY SENSING DEVICES AND SYSTEMS.

2. OCCUPANCY SENSORS AND DAYLIGHTING SENSORS COMMISSIONING:

   A. UPON COMPLETION OF THE INSTALLATION, CONTRACTOR SHALL PROVIDE A COMPLETE SYSTEM COMMISSIONED BY THE MANUFACTURER'S FACTORY AUTHORIZED TECHNICIAN WHO WILL VERIFY ADJUSTMENTS AND SENSOR PLACEMENT TO ENSURE A TROUBLE-FREE OCCUPANCY-BASED LIGHTING CONTROL SYSTEM.

   B. UPON COMPLETION OF THE SYSTEM FINE TUNING, THE CONTRACTOR SHALL ARRANGE FOR THE FACTORY AUTHORIZED TECHNICIAN TO PROVIDE THE PROPER TRAINING TO THE OWNER'S PERSONNEL IN THE ADJUSTMENT AND MAINTENANCE OF THE SENSORS.

   C. LIGHTING CONTROLS COMMISSIONING, INSPECTIONS (INCLUDING STATE OF CALIFORNIA ENERGY COMMISSION INSPECTION FORMS AND APPLICATIONS), TESTING, PROGRAMMING AND TUNING OF LIGHTING CONTROL SENSORS, DEVICES AND COMPONENTS, ETC. SHALL BE INCLUDED IN THE LIGHTING CONTROL PACKAGE AND PRICE ANY LABOR, TOOLS AND MATERIALS REQUIRED TO PROVIDE A COMPLETE LIGHTING CONTROL SYSTEM SHALL BE AT NO EXTRA COST TO THE OWNERS OR END-USERS.

DIGITAL LIGHTING MANAGEMENT (DLM) CONTROLS

1. THE CONTRACTOR MAY SUBSTITUTE EQUAL CONTROL DEVICES FROM A DIFFERENT MANUFACTURER AND SHALL PROVIDE CONDUITING AND RECEPTACLE CONTROL WIRING DIAGRAMS WITH THE SHOP DRAWING SUBMITTALS OF SUBSTITUTED DEVICES.
2. EVERY EFFORT HAS BEEN MADE ON THE PART OF THE ENGINEER TO INDICATE THE PROPER SELECTION OF THE PRODUCT AND MOUNTING LOCATIONS. FINAL DETERMINATION OF CIRCUITING, VOLTAGE, QUANTITY AND MODEL OF ROOM CONTROLLERS REQUIRED, AND SETTING OF SENSITIVITY/TIME ADJUSTMENTS ARE THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR AND/OR COMMISSIONING AGENT. MANUFACTURER'S INSTALLATION INSTRUCTIONS SHOULD BE ADHERED TO.
3. PLUG N' GO (PNG): DEFAULT OPERATION. UPON INITIAL POWER-UP, THE DLM SYSTEM AUTOMATICALLY IDENTIFIES THE DEVICES ON THE LOCAL NETWORK THEN ENTERS THE "WATTSTOPPER" PATENTED PLUG N' GO CONFIGURATION TO ALLOW BASIC OPERATION OF ALL DLM DEVICES. IN MOST APPLICATIONS THE RELATIONSHIP BETWEEN QUANTITY OF LOADS, SWITCHES AND OCCUPANCY SENSORS WILL NOT REQUIRE ANY ADJUSTMENTS. PNG AUTOMATICALLY MAXIMIZES LIGHTING ENERGY EFFICIENCY.
4. ROOM CONTROLLERS SHOULD ONLY BE FED BY A CONSTANT HOT (UNSWITCHED) CIRCUIT.
5. ROOM CONTROLLERS WITH 2 OR 3 RELAYS ARE FOR MULTIPLE LEVELS OR ZONES, NOT MULTIPLE ROOMS.
6. ALL SENSOR LOCATIONS ARE APPROXIMATE. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION. IF PENDANT MOUNTED FIXTURES ARE PRESENT, LOCATION AND COVERAGE OF SENSORS SHOULD BE REVIEWED.
7. CEILING MOUNTED SENSORS REQUIRE THEY BE LOCATED NO CLOSER THAN 4'-6" FROM AIR SUPPLY/RETURN REGISTERS.
8. PUSH N' LEARN (PNL): CUSTOM OPERATION A CONFIGURATION (CONFIG) BUTTON ON MOST DLM DEVICES ALLOWS EASY ACCESS TO THE "WATTSTOPPER" PATENTED PUSH N' LEARN TECHNOLOGY TO MODIFY SYSTEM OPERATION. FUNCTIONALITY OF THE CONFIG BUTTON IS STANDARDIZED THROUGHOUT THE DLM PRODUCT LINE, AS IS THE OPERATION OF THE CONFIG LED INDICATORS. IN ADDITION, THE CONFIGURATION TOOL PROVIDES REMOTE INFRARED ACCESS TO PNL AND SENSOR ADJUSTMENT PARAMETERS.
9. ALL ROOM CONTROLLERS SHALL BE INTERLOCKED AND PROGRAMMED SUCH THAT THE LIGHTING POWER IN THE BUILDING SHALL BE CAPABLE OF BEING AUTOMATICALLY REDUCED IN RESPONSE TO A DEMAND RESPONSE SIGNAL, SO THAT THE BUILDINGS TOTAL LIGHTING POWER CAN BE LOWERED BY A MINIMUM OF 15 PERCENT BELOW THE TOTAL INSTALLED LIGHTING POWER.
10. SEE PLANS FOR QUANTITY AND LOCATIONS REQUIRED.
11. FOR RECEPTACLES FLUSH IN WALL, PROVIDE (1) PLUG ROOM CONTROLLER PER CIRCUIT. REFER TO POWER PLANS FOR QUANTITY OF CONTROLLED CIRCUITS.
12. ALL PLUG ROOM CONTROLLERS SHALL SWITCH ON/OFF WITH THE LIGHTING CONTROLS.
13. A. CIODURING BUSINESS HOURS, LIGHTS SHALL BE AUTOMATICALLY TURNED ON WHEN A PERSON ENTERS A SPACE, AND TURN OFF AFTER THE SPACE HAS BEEN UNOCCUPIED FOR A PERIOD OF TIME.
    B. DURING WEEKDAYS, AFTER BUSINESS HOURS, LIGHTS SHALL BE TURNED ON MANUALLY ONLY, AND SHALL TURN OFF MANUALLY OR AUTOMATICALLY BY OCCUPANCY SENSOR.
    C. DURING WEEKENDS AND HOLIDAYS, LIGHTS SHALL BE TURNED ON MANUALLY ONLY, AND SHALL TURN OFF MANUALLY OR AUTOMATICALLY BY OCCUPANCY SENSOR.

GENERAL NOTES

ALL GENERAL NOTES SHOWN BELOW ARE NOT NECESSARILY USED ON PLANS IF NOT REQUIRED.

1. THESE GENERAL NOTES ARE INTENDED TO ASSIST THE CONTRACTOR IN THE EXECUTION OF THE ELECTRICAL WORK AND TO BE INCLUDED IN CONJUNCTION WITH THE CONTRACT DOCUMENT DRAWINGS AND SPECIFICATION REQUIREMENTS. SOME OF THE GENERAL NOTES ARE EXCERPTS FROM THE SPECIFICATION.
2. THE ELECTRICAL DRAWINGS CONTAIN INFORMATION THAT DESCRIBES THE GENERAL DESIGN INTENT FOR THE INDICATED SCOPE OF WORK. SUCH INFORMATION IS DIAGRAMMATIC IN NATURE AND SHALL NOT BE CONSIDERED COMPREHENSIVE OF ALL LABOR, MATERIAL AND EQUIPMENT FOR A FULL PERFORMANCE AND COMPLETION OF THE SCOPE. THE ELECTRICAL CONTRACTOR IS SOLELY AND COMPLETELY RESPONSIBLE FOR REVIEWING THE CONTRACT DOCUMENTS, VERIFYING FIELD CONDITIONS PRIOR TO COMMENCING WORK, AND ALL MEANS AND METHODS REQUIRED IN COMPLETING THE WORK.
3. PROCURE PERMITS AND LICENSES REQUIRED. PAY ALL NECESSARY FEES AND ARRANGE FOR INSPECTIONS REQUIRED BY LOCAL CODES AND ORDINANCES AND UTILITY COMPANIES.
4. COORDINATE ALL ELECTRICAL SERVICES WITH THE RESPECTIVE UTILITY COMPANIES AND PROVIDE ALL TRENCHING, CONDUITS, WIRING, METER FACILITIES AND OUTLET REQUIRED BY THEM.
5. WORKMANSHIP SHALL BE OF THE HIGHEST GRADE. DEFECTIVE EQUIPMENT OR EQUIPMENT DAMAGED IN THE COURSE OF INSTALLATION OR TEST SHALL BE REPLACED OR REPAIRED IN A MANNER MEETING WITH THE ACCEPTANCE OF THE ARCHITECT.
6. INSTALL ALL EQUIPMENT, CONDUITS, OUTLETS, AND FIXTURES IN STRICT ACCORDANCE WITH THE CURRENT EDITION OF ALL APPLICABLE CODES (CEC, STATE, COUNTY AND CITY).
7. DO NOT SCALE PLANS FOR FIXTURES, DEVICES, OR APPLIANCE LOCATIONS. USE FIGURED DIMENSIONS IF GIVEN OR CHECK MECHANICAL AND ARCHITECTURAL PLANS. ALSO REFER TO ACTUAL ON-SITE CONDITIONS.
8. ALL MATERIAL AND EQUIPMENT IS TO BE LISTED AND INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND CEC 110.3.
9. ALL ELECTRICAL DEVICES AND EQUIPMENT, FIXTURES, CONDUITS AND WIRING SHOWN ON THESE PLANS ARE NEW, UNLESS OTHERWISE NOTED.
10. OUTLET BOXES INSTALLED IN FIRE WALLS SHALL BE ONE-PIECE STEEL AND INSTALLED IN SEPARATE (STAGGERED) STUD PENETRATIONS, MINIMUM 24 INCHES HORIZONTAL SEPARATION. FIRE WALLS SHALL BE MADE IN ACCORDANCE WITH CBC AND ELECTRICAL CODES.
11. THE FINAL LOCATION OF ALL OUTLETS SHALL BE VERIFIED WITH THE ARCHITECT AND/OR OWNER AT TIME OF CONSTRUCTION.
12. ALL OUTDOOR ELECTRICAL EQUIPMENT SHALL BE WEATHER-PROTECTED.
13. CONTRACTOR SHALL VERIFY THAT ALL LIGHTING FIXTURES, CEILING TRIMS, AND FRAMES ARE COMPATIBLE WITH CEILING SYSTEM INSTALLED.
14. CONTRACTOR SHALL COORDINATE LIGHT FIXTURE LOCATIONS AND INSTALLATIONS WITH THE MECHANICAL CONTRACTOR. MAINTAIN REQUIRED CLEARANCES (MINIMUM 3 INCHES) BETWEEN THE LIGHT FIXTURES AND MECHANICAL DUCTS OR EQUIPMENT FOR PROPER OPERATION, INSTALLATION AND/OR REMOVAL OF FIXTURES.
15. BEFORE SUBMITTING FOR ARCHITECT'S REVIEW AND PLACING ORDER FOR THE LIGHT FIXTURES. THE CONTRACTOR SHALL VERIFY THE VOLTAGE OF ALL THE LIGHTING FIXTURES TO MATCH THE VOLTAGE OF THE SERVICE PANEL, WHETHER THE VOLTAGE FOR THE LIGHT FIXTURES ARE SHOWN ON THE PLAN OR NOT.
16. PLACEMENT AND CIRCUITING OF EXIT SIGNS AND EGRESS LIGHTING COMPLY WITH CBC REQUIREMENTS.
17. ALL CONDUIT SHALL BE ROUTED CONCEALED UNLESS NOTED ON PLAN OR ACCEPTED BY THE ARCHITECT.
18. PROVIDE ALL NECESSARY SLEEVES AND INSERTS FOR ALL WORK PASSING THROUGH OR ATTACHING TO WALLS, FLOORS, OR CEILINGS.
19. ALL WIRING SHALL BE INSTALLED IN RIGID METALLIC CONDUIT, UNLESS OTHERWISE NOTED. CONDUITS INSTALLED CONCEALED IN WALL AND CEILING MAY BE EMT WITH STEEL COMPRESSION TYPE FITTINGS. PVC WHERE INSTALLED UNDERGROUND AND/OR UNDER SLAB. ALL EXPOSED CONDUITS SHALL BE RIGID STEEL CONDUITS WITH THREADED TYPE FITTINGS. INSTALL ALL CONDUITS IN ACCORDANCE WITH CECA STANDARDS OF INSTALLATION.
20. ELECTRICAL NON-METALLIC TUBING (ENT) AND MC CABLE ARE NOT PERMITTED TO BE USED FOR THIS PROJECT, NO EXCEPTIONS.
21. WHERE EXISTING CONDUITS, CONCEALED OR EXPOSED, AND (WIREMOLD) SURFACE RACEWAY IS NOT IN PLACE AS SHOWN ON PLANS, PROVIDE NEW CONDUITS AND (WIREMOLD) SURFACE RACEWAY FOR THE NEW WORK. VERIFY EXISTING CONDITION ON SITE AND PROVIDE ALL NECESSARY NEW MATERIAL, APPARATUS, AND WORK THAT ARE REQUIRED TO BE INCLUDED IN THE BID PACKAGE.
22. CONDUCTORS, #8 AND LARGER, SHALL BE STRANDED COPPER WITH THNN/THWN INSULATION, UNLESS OTHERWISE NOTED.
23. PROVIDE WORKING CLEARANCE PER CEC 110.26 FOR SERVICE PANEL, SUBPANELS, MOTOR DISCONNECT SWITCHES, CONTROL SECTIONS. HVAC EQUIPMENT, APPLIANCES, ETC.
24. PROVIDE A WARNING LABEL (SIGN) CLEARLY VISIBLE TO QUALIFIED PERSONS TO COMPLY WITH NEC AND CEC 110.16 OF POTENTIAL ELECTRIC ARC FLASH HAZARDS AT SWITCHBOARDS, PANELBOARDS, INDUSTRIAL CONTROL PANELS AND MOTOR CONTROL CENTERS THAT ARE LIKELY TO REQUIRE EXAMINATION, SERVICING, OR MAINTENANCE WHILE ENERGIZED. SERVICE EQUIPMENT SHALL BE LEGIBLY MARKED WITH THE MAXIMUM AVAILABLE FAULT CURRENT PER CEC SECTION 110.24(A).
25. BUILDING SERVICE AND SUBPANELS TO COMPLY WITH CEC 110.9 AND 110.10 INTERRUPTING RATING AND BRACING. PROVIDE A.I.C. CALCULATIONS FOR SUBPANELS IF INTERRUPTING RATING TO BE USED IS LOWER THAN MAIN SERVICE RATING.
26. ALL APPLIANCES SHALL COMPLY WITH CEC ARTICLE 422. APPLIANCE CONTROL AND PROTECTION PER CEC 422-III; BRANCH CIRCUITS PER 422-II.
27. BUILDING EXPANSION JOINTS MAY OR MAY NOT BE INDICATED ON THE ELECTRICAL DRAWINGS. VERIFY THE LOCATIONS OF ALL APPLICABLE BUILDING EXPANSION JOINTS WITH THE ARCHITECTURAL DRAWINGS. WIRING METHODS ACROSS EXPANSIONS JOINTS SHALL INCLUDE USE OF FLEXIBLE FITTINGS OR OTHER DEVICES AS APPROPRIATE TO EACH APPLICATION, IN NO CASE SHALL CONDUIT CROSS SUCH A JOINT IN BUILDING CONSTRUCTION WITHOUT USE OF THE APPROPRIATE WIRING METHODS.
28. CONTRACTOR SHALL SIZE ALL THE INTERIOR AND EXTERIOR BUILDING PULL BOXES AND UNDERGROUND PULL BOXES PER CEC 314.16 AND COMPLY WITH CEC 314.28 FOR INSTALLATION OF RACEWAYS AND WIRING AS REQUIRED BY CODE, UNLESS OTHERWISE NOTED.
29. WHERE ACCESSIBILITY IS NOT AVAILABLE TO ELECTRICAL OUTLETS, DEVICES AND/OR EQUIPMENT, COORDINATE WITH THE ARCHITECT FOR PROVISIONS TO PROVIDE ACCESSIBILITY TO THEM.
30. CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE MECHANICAL DRAWINGS AND PROVIDES ALL CONDUITS AND CONTROL WIRING AND POWER WIRING SHOWN ON THE MECHANICAL DRAWINGS THAT IS NOT SHOWN ON THE ELECTRICAL PLANS.
31. CONTRACTOR SHALL REFER TO THE MECHANICAL DRAWINGS AND COORDINATE FOR THE EQUIPMENT LOCATIONS. COORDINATE ROOF PENETRATION WITH THE MECHANICAL CONTRACTOR FOR MECHANICAL CONNECTIONS. ENTER ROOF MOUNTED UNITS THROUGH EQUIPMENT MOUNTING CURBS WHERE POSSIBLE. VERIFY ON-SITE.
32. PROVIDE CONVENIENCE OUTLET WITHIN 25 FEET OF MECHANICAL EQUIPMENT PER U.M.C. WHERE LOCATED OUTSIDE, PROVIDE WEATHERPROOF AND GFCI CONVENIENCE OUTLET. SECURE ROOF MOUNTED OUTLET TO THE MECHANICAL EQUIPMENT. VERIFY LOCATION IN FIELD WITH THE MECHANICAL CONTRACTOR.
33. VERIFY SINGLE-POINT CONNECTIONS TO ROOF MOUNTED HVAC UNITS WITH MECHANICAL CONTRACTOR ON-SITE PRIOR TO ELECTRICAL ROUGH-IN. PROVIDE DUAL DISCONNECTS IF TWO-POINT CONNECTIONS IS REQUIRED, WHETHER SHOWN ON PLANS OR NOT.
34. SWITCH DEVICES CONTROLLING MECHANICAL EQUIPMENT SHALL BE SIZE AND TYPE REQUIRED AND SHALL BE SERVED WITH QUANTITY OF WIRES AS REQUIRED. REFER TO DIVISION 23 MECHANICAL PLANS AND SPECIFICATIONS.
35. COORDINATE THE HVAC EQUIPMENT FOR FUSES REQUIRE. WHERE FUSES ARE REQUIRED, VERIFY FUSE SIZE ON-SITE AND PROVIDE FOR HVAC EQUIPMENT PER UNIT NAMEPLATE SPECIFICATIONS.
36. MOTOR DISCONNECT SWITCHES SHALL COMPLY WITH CEC 430-IX AND 440.11.
37. MOTOR STARTERS FOR HVAC EQUIPMENT ARE PROVIDED BY MECHANICAL CONTRACTOR AND CONNECTED BY ELECTRICAL CONTRACTOR, UNLESS NOTED OTHERWISE.
38. ALL CONNECTIONS FROM THE DISCONNECT SWITCHES TO HVAC UNITS SHALL BE COPPER CONDUCTORS. MOTOR DISCONNECT SWITCHES SHALL COMPLY WITH CEC 430-VII, 430-VIII, AND 440-II.
39. VERIFY LOCATION AND HEIGHT OF ALL MECHANICAL OR FIXTURE EQUIPMENT OUTLETS WITH SUPPLIER PRIOR TO ANY ROUGH-IN WORK. PROVIDE ALL RUNS AND CONNECTIONS TO EQUIPMENT.
40. ALL TERMINATION PROVISIONS OF EQUIPMENT, INCLUDING CIRCUITS RATED 100 AMPERES OR LESS SHALL BE RATED AT 60 DEGREE, CENTIGRADE PER CEC 110.14(c).
41. ALL LIGHT FIXTURES INSTALLED OVER FOOD HANDLING OR FOOD PREPARATION AREAS, OPEN FOOD STORAGE, AND UTENSIL WASHING AREAS SHALL BE OF SHATTERPROOF CONSTRUCTION OR SHALL BE PROTECTED WITH SHATTERPROOF SHIELDS AND SHALL BE READILY CLEANABLE.
42. ALL CONDUITS SHALL BE CONCEALED BELOW SLAB, IN WALLS AND/OR ABOVE CEILINGS EXCEPT IN ELECTRICAL ROOMS, MECHANICAL ROOMS, AND OTHER SIMILAR UTILITY ROOMS AS APPROVED BY THE ARCHITECT. NO CONDUIT SHALL BE EXPOSED ON EXTERIOR BUILDING SURFACES WITHOUT PRIOR APPROVAL FROM THE ARCHITECT.
43. PROVIDE A CODE SIZED GROUND CONDUCTOR IN ALL CONDUITS WHETHER INDICATED ON PLANS OR NOT.

DEMOLITION GENERAL NOTES

ALL DEMOLITION GENERAL NOTES SHOWN BELOW ARE NOT NECESSARILY USED ON PLANS IF NOT REQUIRED.

1. ALL EXISTING EQUIPMENT, DEVICES, CONDUIT AND WIRING, ETC., WHERE SHOWN ON PLANS ARE BASED ON AVAILABLE EXISTING DOCUMENTS AND LIMITED SITE SURVEYS AND ARE SHOWN FOR CLARITY. IT SHALL BE REGARDED AS AN APPROXIMATION ONLY. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES. THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT. PRIOR TO SUBMITTING BID AND BEFORE START OF ANY ELECTRICAL WORK, CONTRACTOR SHALL VERIFY ON-SITE ALL EXISTING LOCATIONS AND CONDITIONS TO ASCERTAIN ALL WORK REQUIRED.
2. EXISTING ELECTRICAL MAIN SERVICE IS BEING REPLACED WITH NEW THAT IS TO BE INCLUDED IN THE SCOPE OF WORK. CONTRACTOR SHALL VERIFY AND COORDINATE THE SEQUENCE OF WORK WITH THE LOCAL UTILITY COMPANY. THE OWNER/DISTRICT'S REPRESENTATIVE AND OTHER TRADES AT THE EARLIEST START OF CONSTRUCTION FOR ALL REQUIREMENT AND SCHEDULE THE REQUIRED WORK FOR A SMOOTH AND TIMELY TRANSFORMATION FROM THE EXISTING SERVICE TO THE NEW SERVICE TO ENSURE THAT ALL WORK PROCEED WITH A MINIMUM OF INTERFERENCE AND DELAY, LIMIT THE ELECTRICAL SHUTDOWN TO A MINIMAL SO IT WILL NOT AFFECT THE EXISTING FACILITY'S NORMAL DAILY FUNCTIONS AND OPERATION.
3. CAUSE AS LITTLE INTERFERENCE OR INTERRUPTION OF EXISTING UTILITIES AND/OR OTHER EXISTING FACILITY'S SYSTEMS AND SERVICES AS POSSIBLE. CONTRACTOR SHALL NOTIFY THE OWNER/DISTRICT'S REPRESENTATIVE AT LEAST 72 HOURS TO SCHEDULE ALL NECESSARY SHUTDOWN. SHUTDOWN WORK SHALL BE PERFORMED AFTER THE NORMAL OPERATION HOURS OF THE FACILITY, IF SO DIRECTED BY THE OWNER/DISTRICT'S REPRESENTATIVE.
4. ALL REMOVED AND/OR DEMOLISHED ELECTRICAL MATERIALS AND EQUIPMENT TO BE ACCOMPLISHED UNDER THIS CONTRACT, WHICH IN THE OPINION OF THE OWNER/DISTRICT'S REPRESENTATIVE ARE DEEMED SALVAGEABLE, SHALL REMAIN THE PROPERTY OF THE OWNER/DISTRICT. ALL ELECTRICAL MATERIAL AND EQUIPMENT CONSIDERED NOT SALVAGEABLE SHALL BE REMOVED FROM THE SITE AND DISPOSED BY THE CONTRACTOR ACCORDINGLY.
5. WHERE REMOVAL OF AN EXISTING SYSTEM'S DEVICE WILL RESULT IN LOSS OF CIRCUIT CONTINUITY, THE ISOLATED PORTIONS OF THE CIRCUIT SHALL BE RECONNECTED TO PROVIDE SERVICE TO ALL REMAINING DEVICES. IF SITE CONDITIONS MAKE RECONNECTION IMPOSSIBLE, CONNECTION SHALL BE MADE FROM AN ADJACENT AVAILABLE DEVICE AS NOTED AND/OR AS DIRECTED BY THE ARCHITECT AND/OR THE OWNER/DISTRICT'S REPRESENTATIVE.
6. WHERE EXISTING CONCEALED CONDUITS, WHETHER SHOWN OR NOT, OR SPECIFIED TO BE REUSED, WHICH BECAME EXPOSED DUE TO CONSTRUCTION CHANGES. IT SHALL BE REROUTED TO THE NEAREST AVAILABLE REUSED OUTLET.
7. ALL EXISTING EXPOSED CONDUITS AND/OR WIRING THAT ARE DETERMINED BY THE DISTRICT AND ARCHITECT TO BE MAINTAINED FOR EXISTING SYSTEM FUNCTION AND CONTINUITY, WHETHER SHOWN ON PLAN OR NOT, ARE TO BE REROUTED, CONCEALED IN WALL AND/OR CEILING FOR A CLEAN FINISHED SURFACE WITH NO EXPOSED CONDUITS AND/OR WIRING WITHIN THE REMODELED AREA.
8. REMOVE ALL EXISTING EXPOSED CONDUITS, WIRING, ELECTRICAL OUTLETS, DEVICES AND EQUIPMENT THAT ARE DETERMINED BY THE DISTRICT AND ARCHITECT TO BE NON FUNCTIONAL AND/OR NOT BEING USED FROM WITHIN THE REMODELED ARE FOR A CLEAN FINISHED

ELECTRICAL SYMBOL LEGEND

ALL SYMBOLS SHOWN IN THIS LEGEND ARE NOT NECESSARY USED ON PLANS IF NOT REQUIRED

SYMBOL	DESCRIPTION
	POWER
	MAIN SWITCHBOARD OR DISTRIBUTION PANEL, PAD OR FLOOR MOUNTED, AS NOTED
	RECESSED MOUNTED LIGHTING OR DISTRIBUTION PANEL
	SURFACE MOUNTED LIGHTING OR DISTRIBUTION PANEL
	RECESSED TERMINAL CABINET w/ 3/4"C PLYWOOD BACKBOARD, DUPLEX RECEPTACLE & #6 CU GND, UNO
	SURFACE MOUNTED TERMINAL CABINET w/ 3/4"C PLYWOOD BACKBOARD, DUPLEX RECEPTACLE & #6 CU GND, UNO
	GROUND BUS BAR
T	DISTRIBUTION TRANSFORMER, MOUNTING AND SIZE AS NOTED
	NON-FUSED DISCONNECT SWITCH
	ENCLOSED CIRCUIT BREAKER DISCONNECT SWITCH
F	FUSED DISCONNECT SWITCH; SIZE DISCONNECT AND FUSES PER UNIT LABEL
	MOTOR STARTER/CONTROLLER
2	COMBINATION CIRCUIT BREAKER DISCONNECT/MOTOR STARTER
F 2	COMBINATION FUSIBLE DISCONNECT/MOTOR CONTROLLER; PROVIDE FUSES PER MANUFACTURER'S REQUIREMENTS. "NF" INDICATES NON-FUSED
	POWER POINT OF CONNECTION
A	DUPLEX RECEPTACLE OUTLET 20A, 125V, @ +16" TO BOTTOM OF BOX, UNO. SUBSCRIPT TEXT WHERE OCCURS, SEE RECEPTACLE SUBSCRIPT LEGEND BELOW.
	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER TOP [1]
	ISOLATED GROUND DUPLEX RECEPTACLE, 20A, 125V @ +16" TO BOTTOM OF BOX, UNO.
	DEDICATED DUPLEX RECEPTACLE OUTLET 20A, 125V, @ +16" TO BOTTOM OF BOX, UNO
	GFCI DUPLEX RECEPTACLE OUTLET 20A, 125V, @ +16" TO BOTTOM OF BOX, UNO
	GFCI DUPLEX RECEPTACLE OUTLET MOUNTED ABOVE COUNTER TOP AND/OR SINK BACKSPLASH [1]
	ISOLATED GROUND GFCI DUPLEX RECEPTACLE OUTLET 20A, 125V, @ +16" TO BOTTOM OF BOX, UNO
	DEDICATED GFCI DUPLEX RECEPTACLE OUTLET 20A, 125V, @ +16" TO BOTTOM OF BOX, UNO
	FOURPLEX RECEPTACLE OUTLET 20A, 125V, @ +16" TO BOTTOM OF BOX, UNO.
	FOURPLEX RECEPTACLE OUTLET MOUNTED ABOVE COUNTER TOP [1]
	ISOLATED GROUNDED DOUBLE DUPLEX RECEPTACLE 20A, 125V @ +16" TO BOTTOM OF BOX, UNO
	DEDICATED DOUBLE DUPLEX RECEPTACLE OUTLET 20A, 125V, @ +16" TO BOTTOM OF BOX, UNO
	GFCI DOUBLE DUPLEX RECEPTACLE OUTLET 20A, 125V, @ +16" TO BOTTOM OF BOX, UNO
	GFCI DOUBLE DUPLEX RECEPTACLE OUTLET MOUNTED ABOVE COUNTER TOP AND/OR SINK BACKSPLASH [1]
	ISOLATED GROUND GFCI DOUBLE DUPLEX RECEPTACLE OUTLET 20A, 125V, @ +16" TO BOTTOM OF BOX, UNO
	DEDICATED GFCI DOUBLE DUPLEX RECEPTACLE OUTLET 20A, 125V, @ +16" TO BOTTOM OF BOX, UNO
	SPECIAL RECEPTACLE OUTLET, SIZE AND NEMA CONFIGURATION AS NOTED, MOUNTED @ +16" TO BOTTOM OF BOX, UNO
	FLOOR MOUNTED DUPLEX RECEPTACLE, 20A, 125V FLUSH IN FINISHED FLOOR
	FLOOR MOUNTED DOUBLE DUPLEX RECEPTACLE, 20A, 125V FLUSH IN FINISHED FLOOR
	CEILING MOUNTED DUPLEX RECEPTACLE, 20A, 125V
	CEILING MOUNTED DOUBLE DUPLEX RECEPTACLE, 20A, 125V
	FLOOR MOUNTED COMBINATION DUPLEX RECEPTACLE / TELECOM
	FLOOR MOUNTED COMBINATION DOUBLE DUPLEX RECEPTACLE / TELECOM
	FLOOR MOUNTED COMBINATION POWER AND TELECOM WITH WHIP FOR PARTITION FURNITURE
	POWER / TELECOM WITH WHIP FOR PARTITION FURNITURE
	WALL MOUNTED JUNCTION BOX - SIZE AS REQUIRED BY CODE
	CEILING JUNCTION BOX - SIZE AS REQUIRED BY CODE
	FLOOR MOUNTED JUNCTION BOX - SIZE AS REQUIRED BY CODE
	PLUGMOLD
	POWER POLE
	CEILING EXHAUST FAN
EV EV	ELECTRIC VEHICLE CHARGING STATION, DUAL PORT & SINGLE PORT
^{T}	THERMAL OVERLOAD SWITCH
^{M}	MOTOR RATED SWITCH

RECEPTACLE SUBSCRIPT LEGEND (APPLIES TO ALL RECEPTACLES)

C	CONTROLLED/UNCONTROLLED [2]
LC	LOCKING COVER
TR	TAMPER-RESISTANT
U	USB (UNIVERSAL SERIAL BUS)
WP	WEATHERPROOF
WPU	WEATHERPROOF WHILE IN USE

FOOTNOTES:

[1] PROVIDE 44" MAX. TO TOP OF BOX AT AREAS WITH FORWARD ACCESSIBLE APPROACH KNEE CLEARANCE, OR PROVIDE 46" MAX. TO TOP OF BOX AT AREAS WITH PARALLEL ACCESSIBLE APPROACH (PER CBC 11B-308).

[2] FOR DUPLEX RECEPTACLES: ONE HALF IS CONTROLLED, AND ONE HALF IS UNCONTROLLED. PLACE CONTROLLED HALF AT BOTTOM. FOR DOUBLE DUPLEX RECEPTACLES: ONE DUPLEX IS CONTROLLED, AND ONE DUPLEX IS UNCONTROLLED. PLACE CONTROLLED DUPLEX AT RIGHT.

SYMBOL	DESCRIPTION
	LIGHTING
	LED LUMINAIRE - T-BAR LAY-IN
	LED LUMINAIRE - RECESSED IN GYPBOARD
	LED LUMINAIRE - SURFACE
	LED LUMINAIRE - SUSPENDED
	LED LUMINAIRE - SURFACE OR SUSPENDED STRIP
	LED LUMINAIRE - RECESSED DOWNLIGHT
	LED LUMINAIRE - RECESSED WALLWASH
	LED LUMINAIRE - SURFACE
	LED LUMINAIRE - WALL
	LED LUMINAIRE - PENDANT
J	TRACK LIGHT - SUSPENDED OR SURFACE MOUNTED
	CONTINUOUS LINEAR LED TAPE OR LED COVE LIGHT
	HATCHED LUMINAIRE INDICATES AN EMERGENCY LUMINAIRE CONNECTED TO A EMERGENCY POWER DISTRIBUTION SYSTEM, OR INTEGRAL EMERGENCY BATTERY BACK-UP
	SINGLE FACE EXIT SIGN. SEE LIGHTING FIXTURE SCHEDULE FOR SPECIFICATION. DIRECTIONAL ARROW AS INDICATED ON PLANS. (CEILING OR WALL)
	DOUBLE FACE EXIT SIGN. SEE LIGHTING FIXTURE SCHEDULE FOR SPECIFICATION. DIRECTIONAL ARROW AS INDICATED ON PLANS. (CEILING OR WALL)
	COMBINATION EMERGENCY EXIT SIGN WITH DUAL HEAD LIGHTS WITH EMERGENCY BATTERY BACK-UP
	BATTERY POWERED EMERGENCY EGRESS LUMINAIRE - SURFACE MOUNTED
	SPOT/FLOOD LUMINAIRE - CEILING
	SPOT/FLOOD LUMINAIRE - ABOVE GROUND
	EXTERIOR POLE FIXTURE - SINGLE HEAD
	EXTERIOR POLE FIXTURE - TWIN HEAD
	EXTERIOR PATHWAY POST-TOP POLE FIXTURE
	BOLLARD FIXTURE
	STEP LUMINAIRE
	LIGHTING CONTROLS
$	SINGLE POLE TOGGLE SWITCH, 20A, 120-277V @ +46" TO TOP OF BOX, UNO [1]
$^{3}	THREE WAY TOGGLE SWITCH, 20A, 120-277V @ +46" TO TOP OF BOX, UNO [1]
$^{a,b,c}	SUBSCRIPTS "a b c" DESIGNATE THE QUANTITY OF SWITCHES AT EACH LOCATION (TYPICAL FOR ALL SWITCH TYPES) [1]
$^{K}	SINGLE POLE KEYED BARREL SWITCH 20A, 120-277V @ +46" TO TOP OF BOX, UNO [1]
	WALL MOUNTED PUSH BUTTON @ +46" TO TOP OF BOX, UNO [1]
D	WALL MOUNTED DIMMER SWITCH @ +46" TO TOP OF BOX, UNO [1]
OD	WALL MOUNTED COMBINATION OCCUPANCY SENSOR & DIMMER SWITCH. DUAL TECHNOLOGY, PASSIVE INFRA-RED OR ULTRASONIC, MOUNTED @ +46" TO TOP OF BOX, UNO [1]
OR	DIGITAL WALL CONTROL OVERRIDE SWITCH. RUN CABLING BACK TO LIGHTING CONTROL PANEL. MOUNTED @ +46" TO TOP OF BOX, UNO [1]
OS	WALL MOUNTED OCCUPANCY SENSOR, DUAL TECHNOLOGY, PASSIVE INFRA-RED OR ULTRASONIC, MOUNTED @ +46" TO TOP OF BOX, UNO [1]
VS	WALL MOUNTED VACANCY SENSOR, DUAL TECHNOLOGY, PASSIVE INFRA-RED OR ULTRASONIC, MOUNTED @ +46" TO TOP OF BOX, UNO [1]
OS	CEILING, OR PENDANT, MOUNTED OCCUPANCY SENSOR. DUAL TECHNOLOGY, PASSIVE INFRA-RED OR ULTRASONIC
OS	CORNER MOUNT OCCUPANCY SENSOR. DUAL TECHNOLOGY, PASSIVE INFRA-RED OR ULTRASONIC
PL	PHOTOCONTROL DAYLIGHT SENSOR
	TAGS AND LEADERS
X	KEY NOTE
G2 L1-11a	LIGHT FIXTURE TAG : FIXTURE TYPE — XX — CIRCUIT NUMBER; PANEL NAME — XX-Xx — SWITCH LEG
X	FEEDER DESIGNATION TAG
X	KITCHEN EQUIPMENT DESIGNATION TAG
x Ex.1	DETAIL DESIGNATION: TOP LETTER INDICATES: DETAIL NUMBER, BOTTOM LETTER / NUMBER INDICATES: SHEET NUMBER
REF x	MECHANICAL OR PLUMBING EQUIPMENT TAG
	BRACKET
	LEADERS

SYMBOL	DESCRIPTION
	ONE LINE DIAGRAM
PANEL "A" 100A	PANEL IDENTIFICATION
100A 3P	CIRCUIT BREAKER
250AF 200A	CIRCUIT BREAKER WITH TRIP UNIT: AMPERE FRAME / AMPERE TRIP
100A 3P	FUSED SWITCH
GFR	GROUND-FAULT RELAY
	GROUND
	UNDERGROUND TERMINATION SERVICE LUG
M	UTILITY METER WITH CURRENT TRANSFORMER COMPARTMENT METER SOCKET
M	CUSTOMER-OWNED MULTIFUNCTION METER WITH CURRENT TRANSFORMERS
	MOTOR
	TRANSFORMER WITH GROUND
	UFER GROUND
	BOND TO COLD WATER PIPE, GAS PIPE, BUILDING STEEL
	AUTOMATIC TRANSFER SWITCH
	NEUTRAL LINK
SPD	SURGE PROTECTIVE DEVICE
ST	SHUNT TRIP DEVICE
	CIRCUITS
	STUB
	CONTINUATION
	CONDUIT RISER - UP
	CONDUIT DROP - DOWN
	CONDUIT CONCEALED IN CEILING OR WALL.
	CONDUIT CONCEALED IN FLOOR OR UNDERGROUND
	EXISTING CONDUIT TO REMAIN.
	CONDUIT & CONDUCTORS FOR LOW VOLTAGE MOTION SENSORS
	EXISTING CONDUIT AND/OR CONDUCTORS TO BE REMOVED. UNDERGROUND CONDUIT MAY BE ABANDONED IN PLACE.
	HOMERUN TO PANELBOARD OR TERMINAL CABINET w/ CONDUCTORS AS NOTED
#	CIRCUIT CONDUTORS: LONG TICK INDICATES NEUTRAL CONDUCTOR; SHORT TICKS INDICATE PHASE CONDUCTORS; TICK MARK WITH A DOT ON THE END INDICATES EQUIPMENT GROUNDING CONDUCTOR. NUMBER BY TICKS INDICATES WIRE GAUGE OTHER THAN #12 AWG CU. NO TICKS INDICATES 2 #12 CU, 1 #12 CU GND, IN 1/2" CONDUIT. OTHERS AS NOTED ON PLAN. NOTE: PROVIDE A CODE SIZED EQUIPMENT GROUNDING CONDUCTOR IN ALL CONDUITS FOR THIS PROJECT; WHETHER SHOWN ON PLAN OR NOT.
	FLEXIBLE CONDUIT, 6'-0" LONG MAX. w/ #12 CU GROUND UNO.

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CENTRAL VALLEY CONTINUATION HIGH SCHOOL CAMPUS
526 MANNEL AVENUE
SHAFTER, CA 93263

DRAWING SUBMITTAL SCHEDULE	
100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO:22434-E-02

ELECTRICAL SYMBOL LEGEND

E-002

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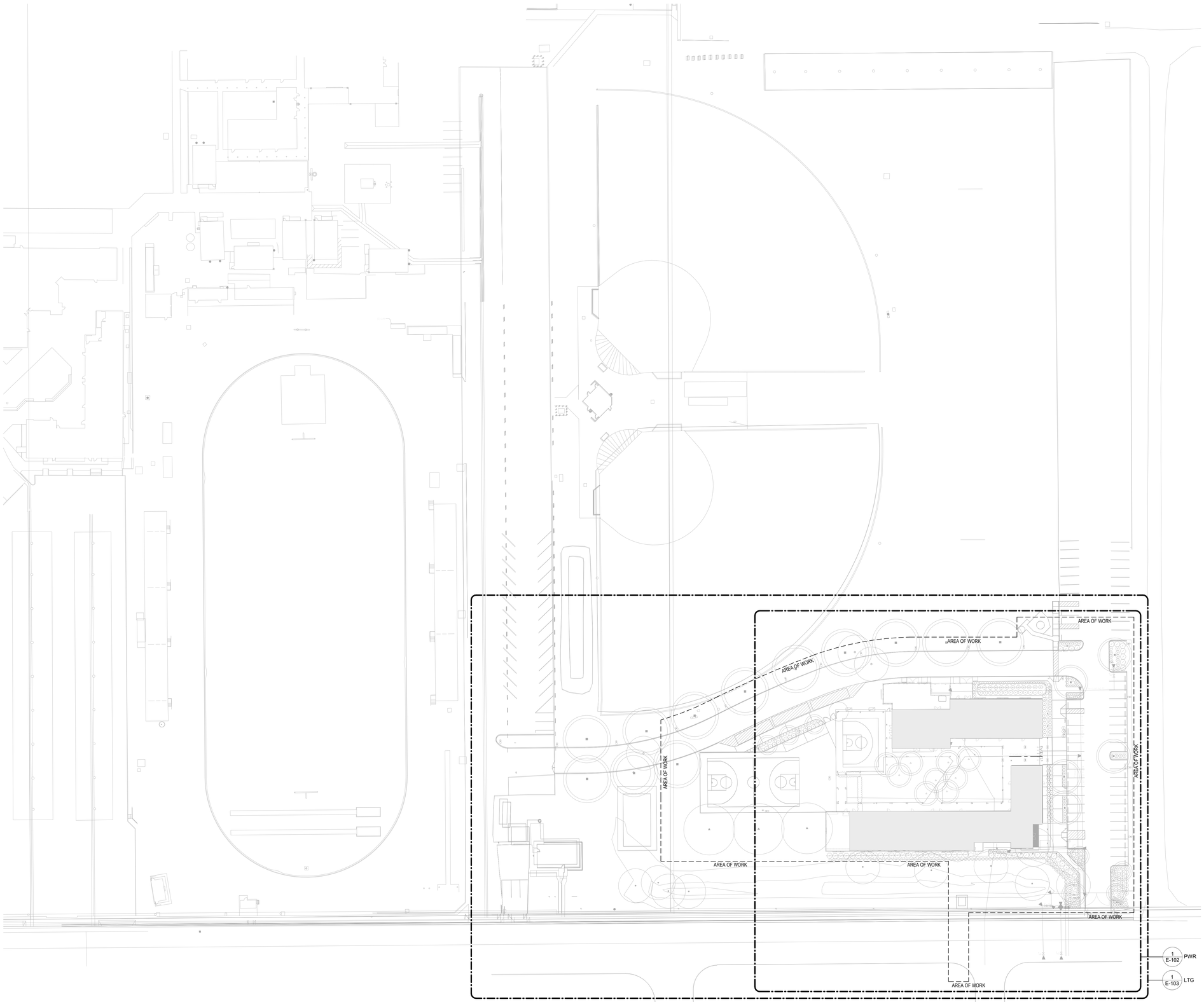
KEY NOTES



1 **OVERALL ELECTRICAL SITE PLAN**
SCALE: 1" = 40'-0"

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PROJECT NO:22434-E-02

OVERALL ELECTRICAL SITE PLAN

E-101

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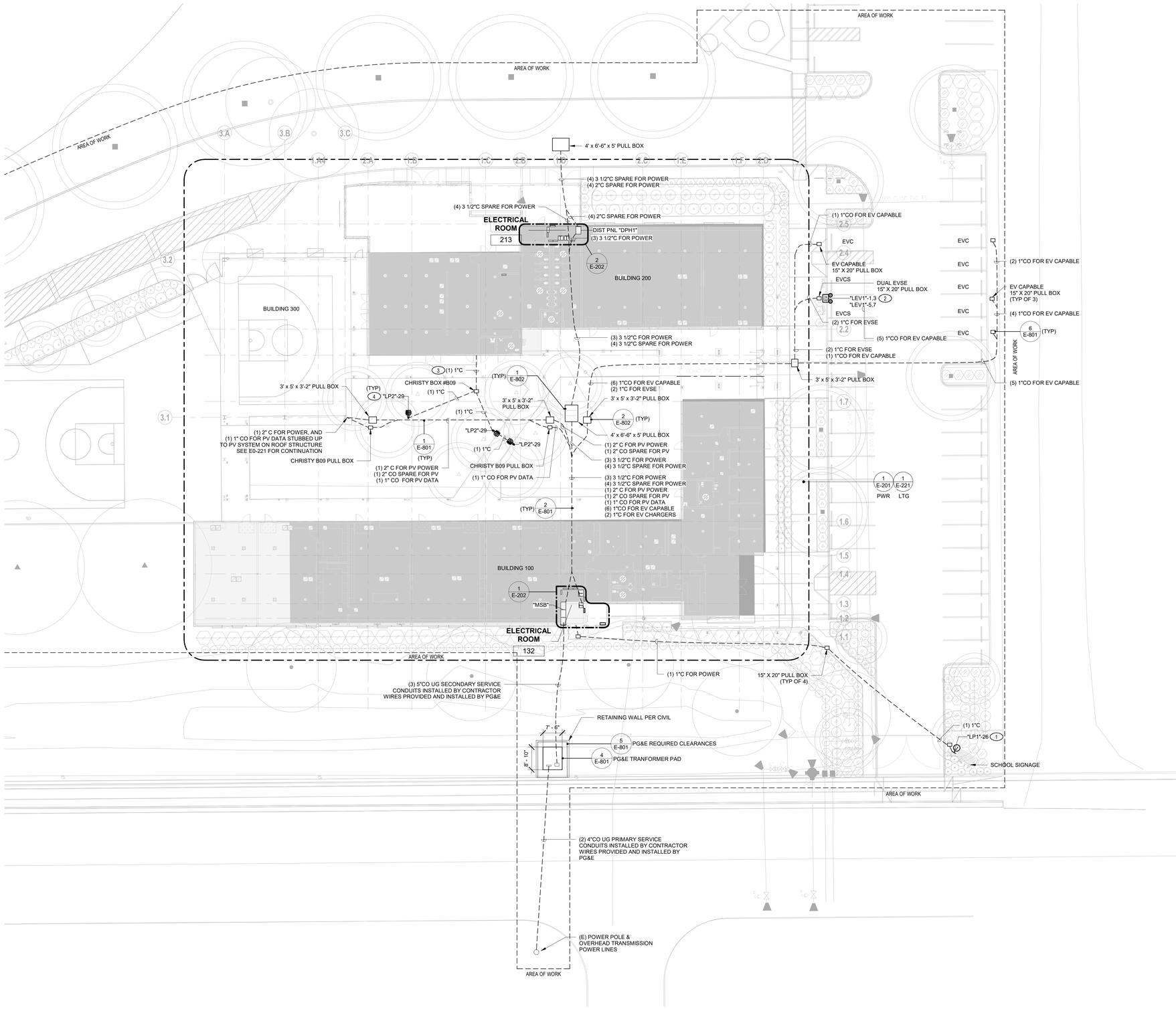

KEY NOTES

(#)

1 PROVIDE 120V, 2#10 CU, 1#10 CU GND FOR SCHOOL SIGNAGE.
2 PROVIDE 208V, 1-PH, 2#6 CU, 1#10 CU GND (EACH) FOR DUAL EV CHARGER.
3 CONTRACTOR TO PROVIDE UG CONDUIT TRANSITION TO BUILDING AND RUN SITE LIGHTING CONDUIT WITHIN THE BUILDING CEILING SPACE TO PANEL LOCATED IN THE ELECTRICAL ROOM.
4 PROVIDE 120V, 2#10 CU, 1#10 CU GND, CONDUIT AS SHOWN ON PLAN, TO OUTLET ON A METAL WEATHERPROOF PEDESTAL. FOR POWER/DATA PEDESTAL ANCHORING REFER TO ARCHITECT DETAIL. REFER TO POWER/DATA PEDESTAL INSTALLATION MANUEL FOR POWER/DATA ENTRY.

GENERAL NOTES - POWER

A. CORROSION PROTECTION / WRAPPING IS REQUIRED ON ALL UNDER-SLAB OR UNDERGROUND FERROUS ELECTRICAL CONDUIT AND FITTINGS. PER CEC SEC 300.6 CORROSION PROTECTION SHALL BE INSPECTED AND APPROVED BEFORE COVERING. THE MATERIAL USED FOR CORROSION PROTECTION SHALL BE CALIF. ELECTRICAL CODE APPROVED AND LABELED.

B. VOLTAGE DROP SHOWN ON THE ELECTRICAL ONE LINE IS FOR PLAN CHECK PURPOSES. CONTRACTOR SHALL MEASURE ACTUAL FEEDER LENGTHS AND CALCULATE VOLTAGE DROP CALCULATIONS FOR ALL FEEDERS AND CIRCUIT GROUNDING, CEC 215.2(A)(2).

C. EXTERIOR ELECTRICAL OUTLETS INDICATED WEATHERPROOF WHILE IN USE "WPU" SHALL BE PROVIDED WITH WEATHERPROOF COVER, DIE-CAST METAL AND/OR AS INDICATED ON ELECTRICAL SPECIFICATION SECTION 26 27 26.

D. CONDUIT UNDERGROUND PATHWAYS SHALL BE FULLY COORDINATED WITH CIVIL. SEE SHEET E-001 FOR GENERAL UG TRENCHING NOTES. FOR UG CONSTRUCTION, THE MINIMUM DEPTH BELOW GRADE, AND REQUIRED COVERAGE PER CEC, TABLE 300.50. SEE TYPICAL TRENCH DETAIL 1/E-801 & 2/E-801. CIVIL ENGINEER TO CONFIRM THE FINAL CONSTRUCTION, DEPTH BELOW GRADE, AND CONCRETE COVERAGE (WHERE APPLICABLE).

E. UNDERGROUND PULL BOXES SHOWN ON THE PLAN SHALL BE VERIFIED BASED ON FINAL CONDUIT QUANTITY AND SIZES. ALL UNDERGROUND PULL BOXES SHALL BE SIZE PER CEC ARTICLE 314.28.

F. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ARCHITECT, CIVIL, LANDSCAPE, AND ALL PARTIES INVOLVED FOR THE FINAL LOCATION FOR EV CHARGER STATIONS TO ADDRESS ACCESSIBILITY LOCATION OF THE CHARGING STATIONS.

G. PV SYSTEM WIRE AND CONDUIT SIZE REFER TO PV DRAWINGS.

1 **ENLARGED ELECTRICAL SITE PLAN**
SCALE: 1/16" = 1'-0"

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SHAFTER, CA 93263

DRAWING SUBMITTAL SCHEDULE	
100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO: 22434-E-02

ENLARGED ELECTRICAL SITE PLAN

E-102

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GENERAL NOTES - LIGHTING

A. ALL EXTERIOR ELECTRICAL EQUIPMENT SHALL BE RATED NEMA 3R.

B. ALL UNDERGROUND ELECTRICAL WORK SHALL BE FULLY COORDINATED WITH ARCHITECT, CIVIL, LANDSCAPE, AND ALL PARTIES INVOLVED.

C. UNDERGROUND PULL BOXES SHOWN ON PLANS SHALL BE VERIFIED BASED ON FINAL CONDUIT QUANTITY AND SIZE. ALL UNDERGROUND PULL BOXES SHALL BE SIZED PER CEC ARTICLE 314.28.

D. ALL UNDERGROUND CONDUITS SHALL BE PVC SCHEDULE 40, UNO.

E. EXTERIOR LIGHTING SHALL HAVE (OR BE CONNECTED TO) MOTION SENSOR, PHOTOSENSOR, AND BE CONNECTED TO LIGHTING CONTROL PANEL "LCP".

F. ALL EXTERIOR LIGHTING SHALL BE CONTROLLED PER CALIFORNIA ENERGY CODE, TITLE 24 PART 6:
   a) SECTION 130.2(b), LUMINAIRE CUTOFF REQUIREMENTS.
   b) SECTION 130.2(c), CONTROLS FOR OUTDOOR LIGHTING.
      130.2(c)(1) DAYLIGHTING AVAILABILITY.
      130.2(c)(2) AUTOMATIC SCHEDULING CONTROLS.
      130.2(c)(3) MOTION SENSING CONTROLS.

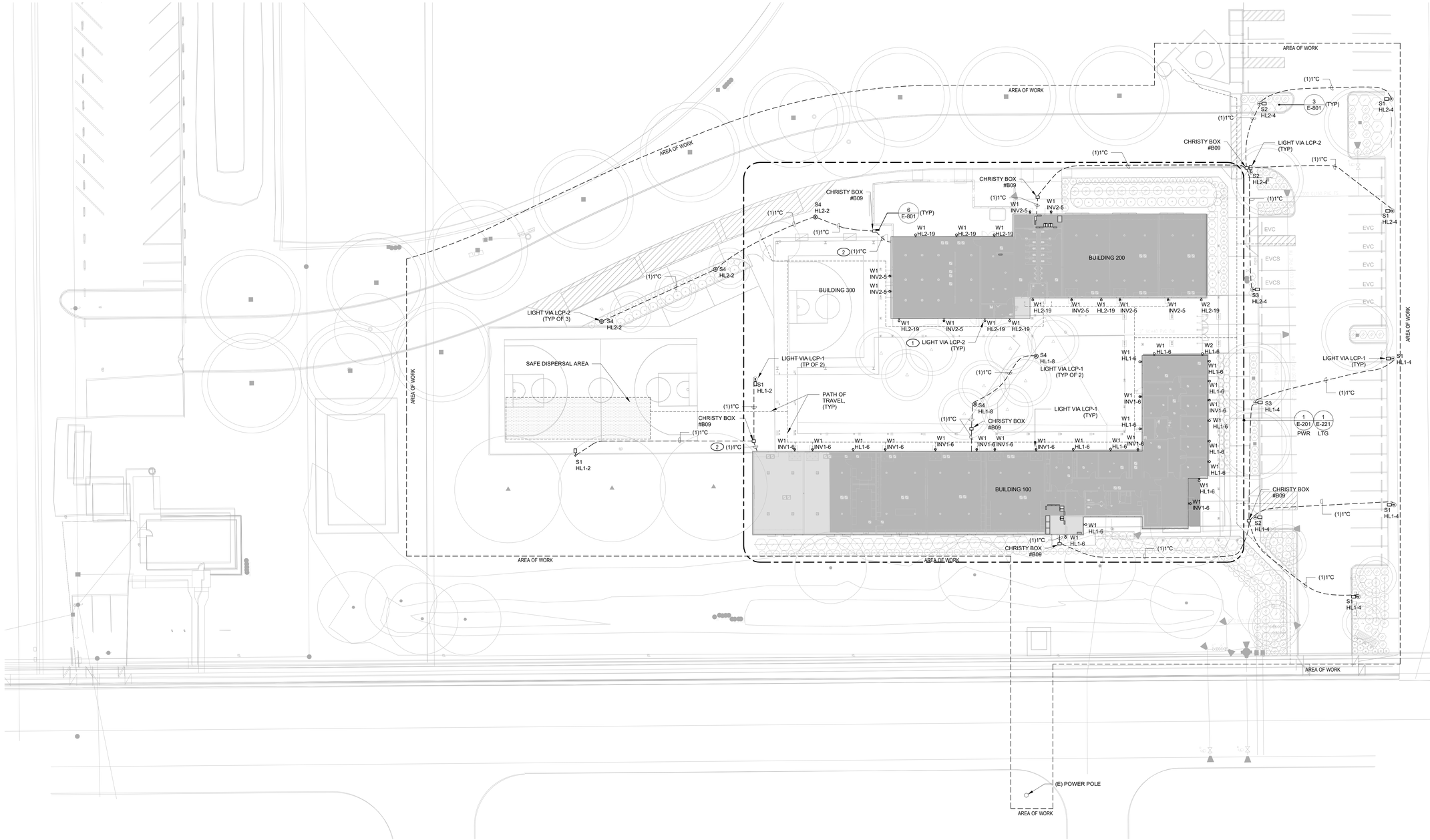
G. ALL SITE LIGHTING WIRES SHALL BE A MINIMUM OF 2#10 CU, 1#10 CU GND IN 1"C UG CONDUIT, UON.

H. FOR LIGHT CIRCUITS FOR LIGHTS LOCATED ON THE BUILDING EXTERIOR, REFER TO SHEET E-211 FOR ADDITIONAL INFORMATION.

KEY NOTES

(#)

1 BUILDING EXTERIOR WALL PACK CIRCUIT, REFER TO SHEET E-211.
2 CONTRACTOR TO PROVIDE UG CONDUIT TRANSITION TO BUILDING AND RUN SITE LIGHTING CONDUIT WITHIN THE BUILDING CEILING SPACE TO PANEL LOCATED IN THE ELECTRICAL ROOM.



1 **LIGHTING SITE PLAN**
SCALE: 1" = 20'-0"

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LIGHTING SITE PLAN

E-103

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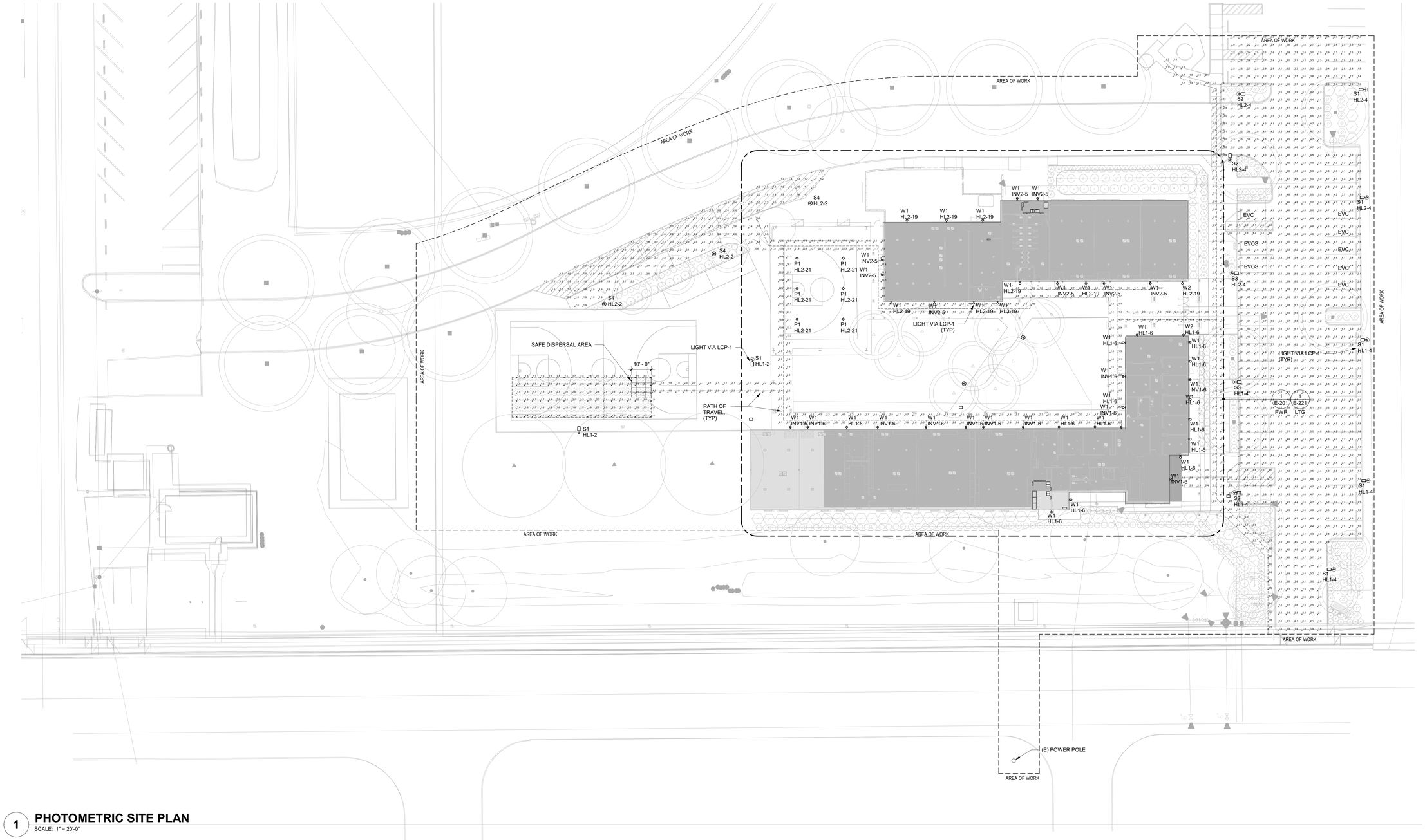
Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
PATH OF TRAVEL	◇	5.1 fc	28.1 fc	1.0 fc	28.1:1	5.1:1
DROP OFF AREA	+	2.2 fc	6.0 fc	1.1 fc	5.5:1	2.2:1
SAFE DISPERSAL AREA	✳	2.0 fc	2.8 fc	1.1 fc	2.5:1	1.8:1
PARKING LOT	✕	4.2 fc	8.4 fc	1.0 fc	8.4:1	4.2:1



1 PHOTOMETRIC SITE PLAN

SCALE: 1" = 20'-0"

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PHOTOMETRIC SITE PLAN

E-104

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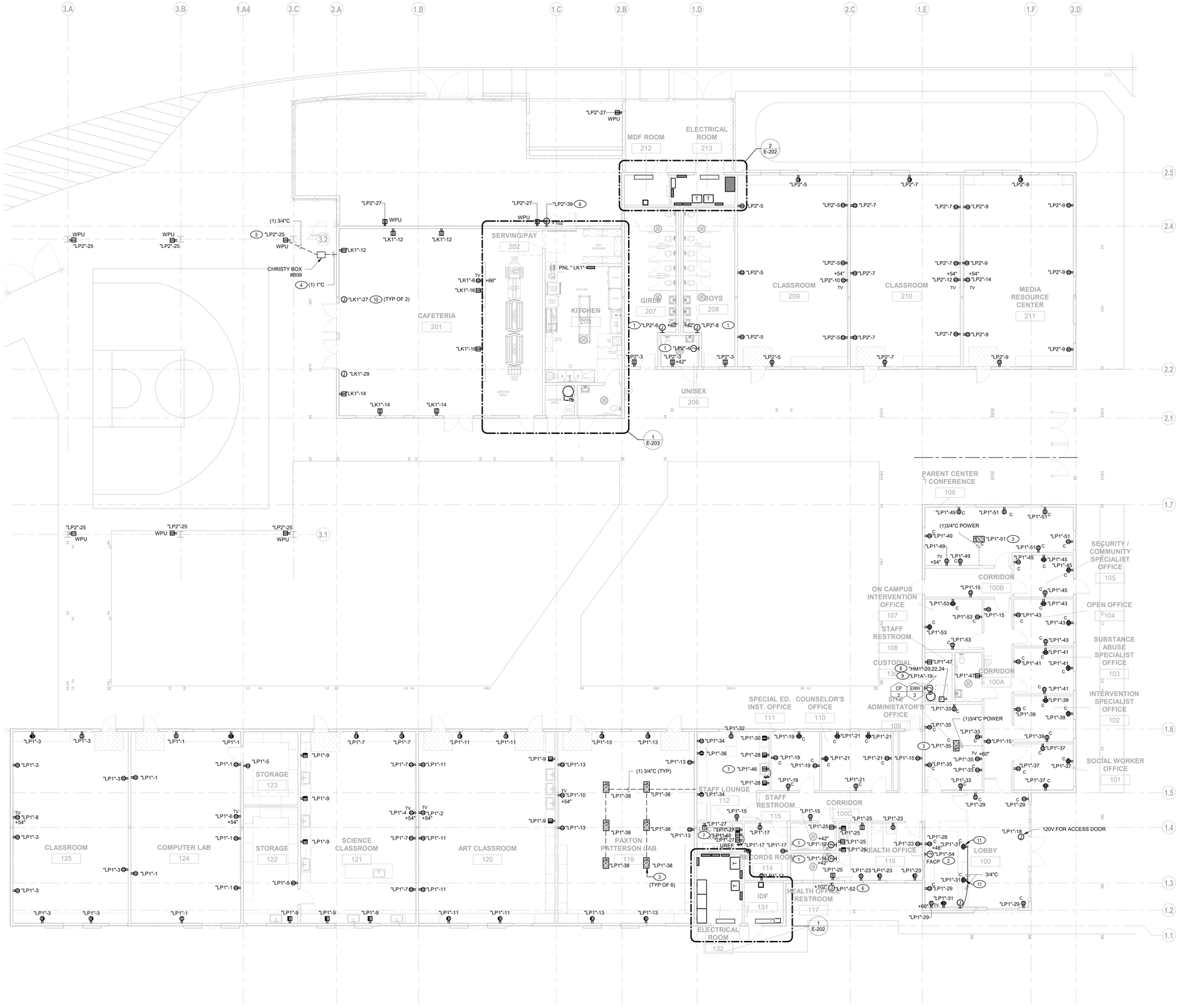

KEY NOTES

#	
1	PROVIDE 120V, 2#10 CU, 1#10 CU GND, 3/4"C FOR HAND DRYER. REFER TO INSTALLATION MANUEL FOR ELECTRICAL CONNECTION PRIOR TO ROUGH-IN.
2	PROVIDE DEDICATED 120V, 2#12 CU, 1#12 CU GND, 3/4"C FOR FACP. COORDINATE WITH FA DRAWINGS FOR FACP FINAL LOCATION PRIOR TO ROUGH-IN.
3	PROVIDE DUPLEX OUTLET ON POWER/DATA FLOOR BOX. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH TECHNOLOGY FOR THE EXACT BOX LOCATION PRIOR TO ROUGH-IN WORK.
4	CONTRACTOR TO PROVIDE UG CONDUIT TRANSITION TO BUILDING AND RUN SITE LIGHTING CONDUIT WITHIN THE BUILDING CEILING SPACE TO PANEL LOCATED IN THE ELECTRICAL ROOM.
5	PROVIDE 120V, 2#10 CU, 1#10 CU CONDUIT AS SHOWN ON PLAN. CONTRACTOR TO LOCATE OUTLET ON STEEL COLUMN, PROVIDE ALL REQUIRED MOUNTING SUPPORT, CLIPS, WITHOUT PENETRATING THE STEEL COLUMN. CONTRACTOR TO RUN SURFACE MOUNTED 3/4"C WITH WIRES UP AND DOWN TO EACH OUTLET LOCATION.
6	PROVIDE 120V, 2#12 CU + 1#12 CU GND IN 3/4"C DEDICATED CIRCUIT FOR FIRE RISER FLOW SWITCH, STROBE/HORN MOUNTED AT 8'-6" AFF. COORDINATE WITH FIRE PROTECTION INSTALLER. REFER TO FIRE ALARM DRAWINGS FOR ANY ADDITIONAL POWER AND CONDUIT REQUIREMENTS.
7	PROVIDE 120V, 2#12 CU, 1#12 CU GND, 3/4"C, FOR GARBAGE DISPOSER UNDER THE SINK. PROVIDE GARBAGE DISPOSER SINGLE POLE SWITCH, MOTOR RATED, MOUNTED ABOVE COUNTER. COORDINATE WITH ARCHITECT FOR SWITCH ABOVE COUNTER FINAL LOCATION PRIOR TO ROUGH-IN.
8	PROVIDE 480V, 3-PH, 3#10 CU, 1#10 CU GND, 3/4"C, 30AS/30AF SAFETY DISCONNECT LOCKABLE IN THE OPEN POSITION, FOR ELECTRIC WATER HEATER "EWH-2", (2) 6KW, 12 KW MAX, 21.6/12.5 FLA.
9	PROVIDE 120V, 2#12 CU, 1#12 CU GND, MOTOR RATED DISCONNECT IN JUNCTION BOX, FOR CIRCULATING PUMP "CP-2", 1/12HP, 1.3 FLA.
10	PROVIDE 120V, 2#10 CU, 1#10 CU GND, 3/4"C, FOR ACCESS DOOR OPERATOR. JUNCTION BOX TO BE LOCATED ABOVE CEILING SPACE. CONTRACTOR TO PROVIDE ALL REQUIRED CONDUIT, WIRES, SUPPORT, PER MANUFACTURER INSTALLATION MANUAL. PROVIDE CONDUIT AND WIRES TO ACCESS DOOR OPERATOR. COORDINATE WITH ARCHITECT DRAWING FOR ACCESS DOOR OPERATOR, AND VERIFY ELEVATION PER ARCHITECTURAL DETAIL. COORDINATE WITH LOW VOLTAGE DRAWINGS FOR ANY ADDITIONAL REQUIREMENTS.
11	LOCATE IN ACCESSIBLE CABINETRY AREA BELOW COUNTERTOP. VERIFY EXACT LOCATION WITH THE ARCHITECT AND THE CABINETRY. ROUTE CONDUIT IN CONCEALED LOCATIONS INSIDE THE CABINETRY AREA.

GENERAL NOTES

A. COORDINATE WITH ARCHITECTURAL DRAWINGS AND ALL OTHER DISCIPLINES FOR EXACT LOCATIONS OF JUNCTION BOXES, DISCONNECT SWITCHES, CONDUIT ENTRY AND POWER REQUIREMENTS OF THEIR EQUIPMENT.

B. COORDINATE ALL ELECTRICAL PENETRATIONS GOING THROUGH STRUCTURAL WALLS WITH STRUCTURAL DRAWINGS, ARCHITECTURAL DRAWINGS AND OTHER PARTIES INVOLVED PRIOR TO INSTALLATION.

C. FIRE SEAL ALL CONDUIT PENETRATIONS THROUGH FIRE-RATED WALLS AND FLOORS WITH AN APPROVED FIRE SEALANT AFTER CONDUIT INSTALLATION. SEAL SHALL PROVIDE EQUAL FIRE RATING AS ASSEMBLY PENETRATED.

D. ALL ELECTRICAL EQUIPMENT WORKING SPACE SHALL COMPLY WITH CEC SECTIONS 110.34 AND 110.73.

E. EXTERIOR ELECTRICAL OUTLETS INDICATED WEATHERPROOF WHILE IN USE "WPU" SHALL BE PROVIDED WITH WEATHERPROOF COVER, DIE-CAST METAL AS INDICATED ON ELECTRICAL SPECIFICATION 26 27 26.

F. ALL 15 AND 20 AMPERE RECEPTACLES, 125 AND 250 VOLT RATED, LOCATED IN WET OR DAMP LOCATIONS, SHALL BE WEATHER-RESISTANT TYPE PER CEC SECTION 406.9.

G. ALL 15 AND 20 AMPERE RECEPTACLES, 125 AND 250 VOLT RATED, LOCATED IN CLASSROOMS, CLASSROOM RESTROOMS, AND CLASS FUNCTION ROOMS, SHALL BE TAMPER-RESISTANT TYPE PER CEC SECTION 406.12.

H. ELECTRICAL RECEPTACLES, SWITCHES AND WALL CONTROLS MOUNTING HEIGHTS SHALL MEET ACCESSIBILITY REQUIREMENT FOR UNOBSTRUCTED FORWARD REACH PER CBC 11B-308.

1 ELECTRICAL POWER PLAN

SCALE: 1/8" = 1'-0"

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ELECTRICAL - POWER PLAN

E-201

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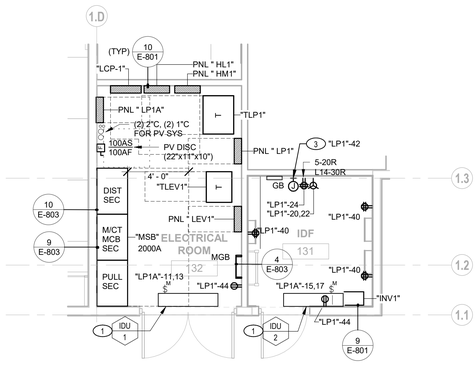
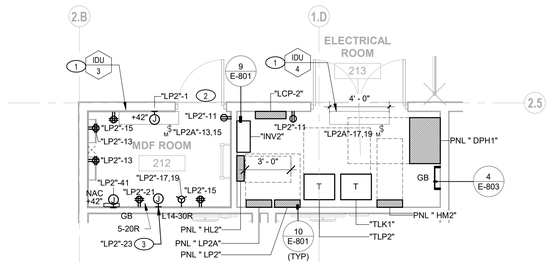
KEY NOTES

#	
1	PROVIDE 208V, 1-PH, 2#10 CU, 1#10 CU GND, 3/4"C FOR IDU. INDOOR UNIT POWERED FROM ASSOCIATED OUTDOOR UNIT. PROVIDE 208V, 2#12 CU, 1#12 CU GND, 3/4"C, POWER CONNECTION FOR INDOOR UNIT CONDENSATE PUMP. LOCATE MOTOR-RATED SWITCH ADJACENT TO UNIT.
2	PROVIDE 120V, 2#12 CU, 1#12 CU GND, 3/4"C FOR IRRIGATION CONTROLLER. REFER TO LANDSCAPE DRAWINGS FOR IRRIGATION CONTROLLER LOCATION, DETAIL, AND POINT OF CONNECTION.
3	PROVIDE 120V, 2#12 CU, 1#12 CU GND, 3/4"C CONNECTION FOR BMS/EMS CONTROLS



1 ENLARGED POWER PLAN - ELEC RM 132 & IDF 131

SCALE: 1/4" = 1'-0"



2 ENLARGED POWER PLAN - ELEC RM 213 & MDF 212

SCALE: 1/4" = 1'-0"

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ENLARGED ELECTRICAL ROOM PLANS

E-202

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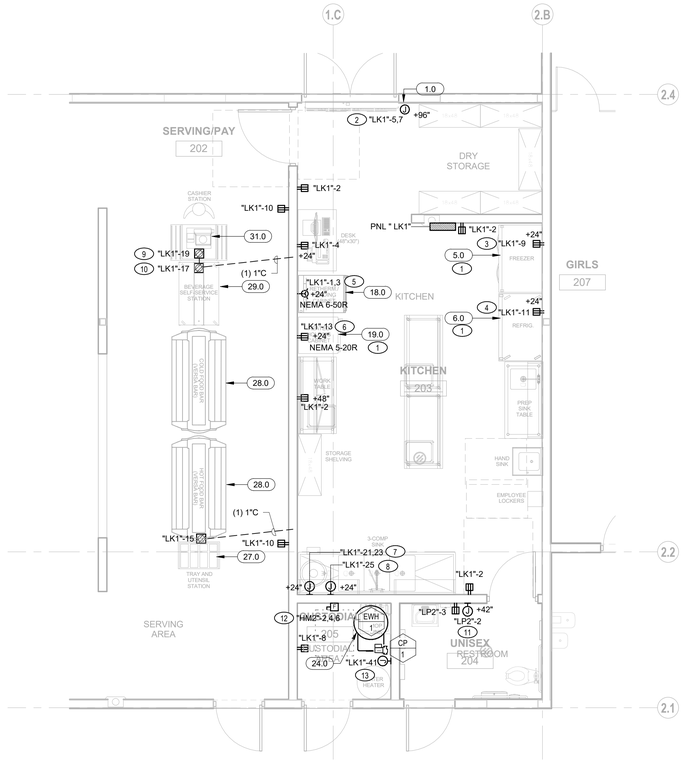

1 ENLARGED FOOD SERVICE POWER PLAN

SCALE: 1/4" = 1'-0"

KEY NOTES

#	
1	PROVIDE GFCI PROTECTION AT BREAKER LOCATION IN PANEL "LK1".
2	PROVIDE 208V, 1-PH, 2#12 CU, 1#12 CU, 3/4"C, MOTOR RATED DISCONNECT, HARD WIRED CONNECTION FOR AIR CURTAIN, 1.7 AMP, 0.35 KW.
3	PROVIDE 120V, 2#12 CU, 1#12 CU GND, 3/4"C, FOR REACH-IN FREEZER, 9.4 AMP, 1.13 KW, 1 1/4HP, 5-15R.
4	PROVIDE 120V, 2#12 CU, 1#12 CU GND, 3/4"C, FOR REACH-IN REFRIGERATOR, 5.9 AMP, 0.71 KW, 1/2HP, 5-15R.
5	PROVIDE 208V, 1-PH, 3#2 CU, 1#8 CU GND, 1 1/4"C, FOR RETHERMALIZER/HOLD CABINET, 49.1 AMP, 10.21 KW, 6-50R.
6	PROVIDE 120V, 2#10 CU, 1#10 CU GND, 3/4"C, FOR MOBILE HEATED HOLDING CABINET, 16 AMP, 2 KW, 5-20R.
7	PROVIDE 208V, 1-PH, 2#12 CU, 1#12 CU GND, 3/4"C, FOR GABAGE DISPOSER, 10.2 AMP, 2.12 KW, MOTOR RATED DISCONNECT, HARD WIRED.
8	PROVIDE 120V, 2#12 CU, 1#12 CU GND, 3/4"C, FOR GARBAGE DISPOSER CONTROL PANEL, 5 AMP, 0.60 KW, MOTOR RATED DISCONNECT, HARD WIRED.
9	PROVIDE 120V, 2#12 CU, 1#12 CU GND, IN CONDUIT SHOWN ON PLAN FOR POS, 5 AMP, 0.60 KW, 5-15R.
10	PROVIDE 120V, 2#12 CU, 1#12 CU GND, 3/4"C, FOR MOBILE MILK COOLER, 3.7 AMP, 0.44 KW, 5-15R.
11	PROVIDE 120V, 2#10 CU, 1#10 CU GND, 3/4"C FOR HAND DRYER. REFER TO INSTALLATION MANUEL FOR ELECTRICAL CONNECTION PRIOR TO ROUGH-IN.
12	PROVIDE 480V, 3-PH, 3#6 CU, 1#10 CU GND, 1"C, 60AS/50AF SAFETY DISCONNECT LOCKABLE IN THE OPEN POSITION, FOR ELECTRIC WATER HEATER "EWH-1", (2)15KW, 30 KW MAX, 36.1 FLA.
13	PROVIDE 120V, 2#12 CU, 1#12 CU GND, MOTOR RATED DISCONNECT IN JUNCTION BOX, FOR CIRCULATING PUMP "CP-1", 1/12HP, 1.3 FLA.

GENERAL NOTES

A. COORDINATE WITH ARCHITECTURAL DRAWINGS AND FOOD SERVICE CONSULTANT DRAWINGS FOR EXACT LOCATIONS OF JUNCTION BOXES, DISCONNECT SWITCHES, CONDUIT ENTRY AND POWER REQUIREMENTS OF THEIR EQUIPMENT.

B. COORDINATE ALL ELECTRICAL PENETRATIONS GOING THROUGH STRUCTURAL WALLS WITH STRUCTURAL DRAWINGS, ARCHITECTURAL DRAWINGS AND OTHER PARTIES INVOLVED PRIOR TO INSTALLATION.

C. FIRE SEAL ALL CONDUIT PENETRATIONS THROUGH FIRE-RATED WALLS AND FLOORS WITH AN APPROVED FIRE SEALANT AFTER CONDUIT INSTALLATION. SEAL SHALL PROVIDE EQUAL FIRE RATING AS ASSEMBLY PENETRATED.

D. ALL ELECTRICAL EQUIPMENT WORKING SPACE SHALL COMPLY WITH CEC SECTIONS 110.34 AND 110.73.

E. PROVIDE ALL CONDUITS, WIRES AND BOXES FOR ALL KITCHEN EQUIPMENT AS REQUIRED. THIS EQUIPMENT IS FURNISHED AND INSTALLED BY OTHERS, CONNECTED BY THE ELECTRICAL CONTRACTOR.

F. COORDINATE WITH REFRIGERATION EQUIPMENT SUPPLIER FOR EXACT LOCATIONS OF JUNCTION BOXES, DISCONNECT SWITCHES, CONDUIT ENTRY AND POWER REQUIREMENTS OF THEIR EQUIPMENT. FURNISH AND INSTALL ALL CONDUITS, WIRES, BOXES, MOTOR STARTERS, RELAYS AND CONTACTORS REQUIRED FOR THE OPERATION OF THE REFRIGERATION EQUIPMENT. MOUNT AND CONNECT ALL THERMOSTATS, SOLENOIDS AND OTHER CONTROLS.

G. ALL CONDUITS IN PREFAB REFRIGERATED WALK-IN AND FREEZER BOXES TO BE SURFACE-MOUNTED. SEAL ALL PERFORATIONS WITH HIGH-QUALITY SILICONE OR ANY APPROVED NON-TOXIC BRAND OF SEALANTS.

H. CONNECT ALL BLOWER COIL FAN MOTORS LOCATED IN WALK-IN BOXES WITH WATER-TIGHT FLEX CONDUITS AND MOTOR-RATED DISCONNECT SWITCHES.

I. ALL CONDUITS FOR REFRIGERATED CASES INSTALLED BELOW BUILDING FLOOR SLAB SHALL BE 1" MINIMUM.

J. ALL RECEPTACLES INSTALLED IN KITCHEN AND WASH DOWN AREAS SHALL BE GFCI PROTECTED AND PROVIDED WITH WEATHERPROOF WHILE-IN-USE COVERS.

K. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL HOOD FIRE SUPPRESSION SYSTEM CONTROL WIRING. PROVIDE CONDUIT, WIRE, RELAY CONTACTORS AS REQUIRED TO MAKE ALL CONNECTIONS AND INTERLOCKS IN CONFORMANCE WITH STATE FIRE MARSHAL REQUIREMENTS. DE-ENERGIZING OF ALL ELECTRICAL OUTLETS AND GAS SOLENOID VALVES UNDER HOODS IS REQUIRED.

L. THE ELECTRICAL CONTRACTOR SHALL PROVIDE CONTROL WIRES FROM EACH REFRIGERATED WALK-IN BOX TO THE COMPRESSOR RACK AS DIRECTED BY THE REFRIGERATION EQUIPMENT INSTALLER.

M. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ROUGH-IN FOR DOOR SWITCHES FOR NEW WALK-IN FREEZERS AND WIRE THROUGH FAN AND SOLENOID CIRCUITS. COORDINATE WITH REFRIGERATION EQUIPMENT INSTALLERAT JOBSITE.

N. ELECTRICAL CONTRACTOR SHALL PROVIDE 120V CIRCUITS FOR HEAT TRACE TAPE FOR NEW WALK-IN FREEZERS AND COOLER DRAINS.

O. THE ELECTRICAL CONTRACTOR SHALL PROVIDE WIRING FOR WALK-IN REFRIGERANT MONITORING PANEL AND DEVICES AS DIRECTED BY THE REFRIGERATION EQUIPMENT INSTALLER.

P. ALL CONDUITS PASSING THROUGH WALK-IN FREEZERS AND COOLERS SUBJECTED TO DIFFERENT TEMPERATURES SHALL BE SEALED PER CEC 300.7(A).

Q. ELECTRICAL CONTRACTOR SHALL VERIFY EXACT NEMA TYPE RECEPTACLE REQUIRED FOR ALL KITCHEN EQUIPMENT AND PROVIDE THE APPROPRIATE TYPE.

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ENLARGED FOOD SERVICE POWER PLAN

E-203

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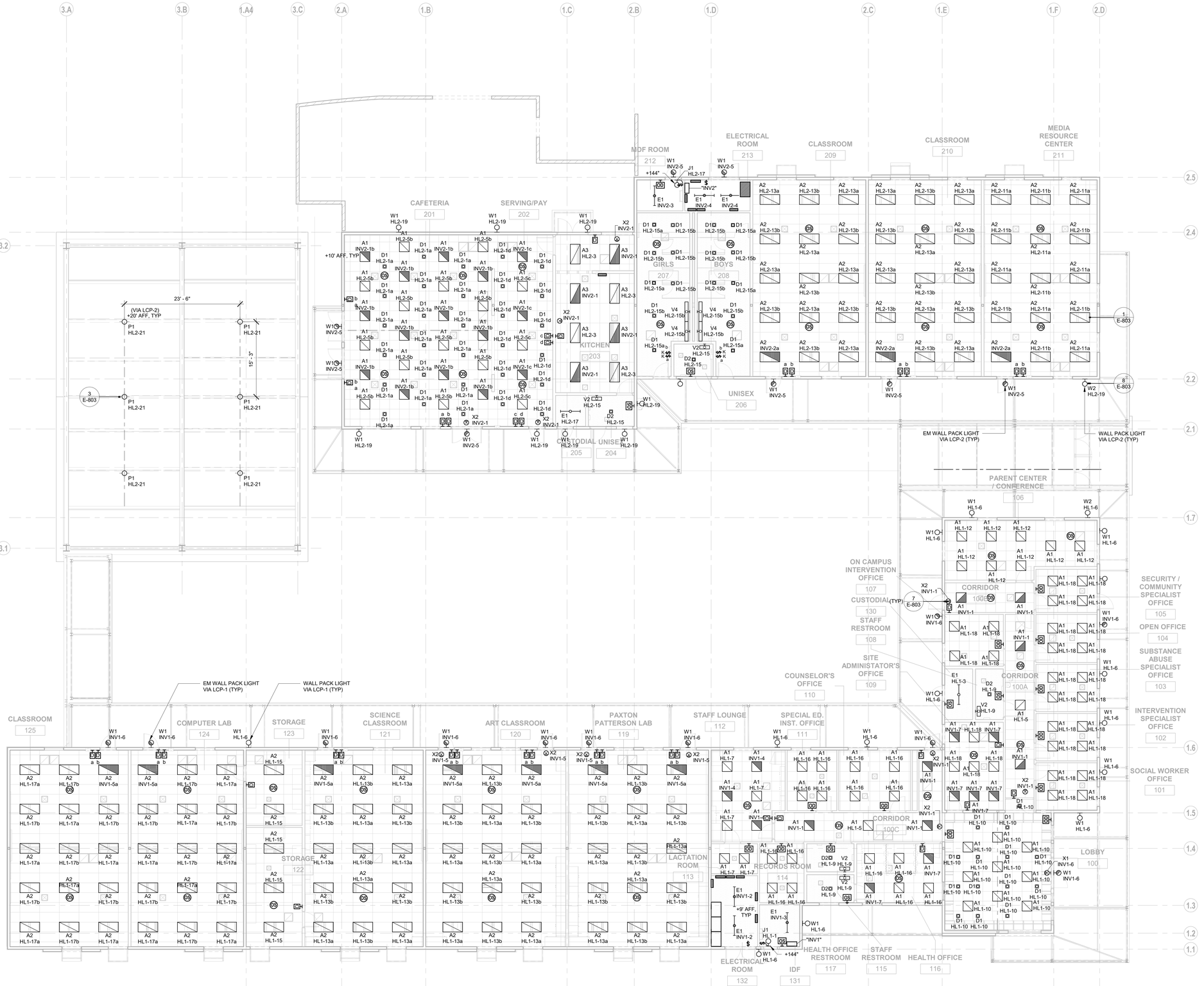

KEY NOTES

(#)

GENERAL NOTES

A. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING TYPES AND EXACT LOCATIONS OF LIGHTING FIXTURES. ARCHITECTURAL PLANS GOVERN FOR LOCATION OF ALL ITEMS INSTALLED IN CEILINGS.

B. COORDINATE ALL ELECTRICAL PENETRATIONS GOING THROUGH STRUCTURAL WALLS WITH STRUCTURAL DRAWINGS, ARCHITECTURAL DRAWINGS AND OTHER PARTIES INVOLVED PRIOR TO INSTALLATION.

C. FIRE SEAL ALL CONDUIT PENETRATIONS THROUGH FIRE-RATED WALLS AND FLOORS WITH AN APPROVED FIRE SEALANT AFTER CONDUIT INSTALLATION. SEAL SHALL PROVIDE EQUAL FIRE RATING AS ASSEMBLY PENETRATED.

D. COORDINATE MOUNTING HEIGHT FOR EXTERIOR BUILDING LIGHTING FIXTURES WITH ARCHITECTURAL BUILDING ELEVATION DRAWINGS. SYSTEM SHALL INCLUDE PROGRAMING, ADJUSTMENTS AND TRAINING.

E. COORDINATE WITH ALL OTHER DISCIPLINES DRAWINGS FOR LOCATIONS OF THEIR EQUIPMENT INSTALLED IN CEILINGS.

F. PROVIDE SHOP DRAWINGS FOR LIGHTING CONTROL SYSTEM SHOWING ALL COMPONENTS, THEIR LOCATIONS AND POINT-TO-POINT WIRING DIAGRAMS.

G. ALL INTERIOR LIGHTING FIXTURES SHALL BE CONTROLLED PER CALIFORNIA ENERGY CODE, TITLE 24 PART 6. SECTION 130.1

H. UNO, EMERGENCY LIGHTING FIXTURES AND EXIT LIGHTS SHALL BE CONNECTED TO LIGHTING INVERTER AND CIRCUIT SHOWN ON PLAN.

I. ALL EXTERIOR LIGHTING SHALL BE CONTROLLED PER CALIFORNIA ENERGY CODE, TITLE 24 PART 6.
1) SECTION 130.2(b), LUMINAIRE CUTOFF REQUIREMENTS.
2) SECTION 130.2(c), CONTROLS FOR OUTDOOR LIGHTING AS BELOW:

i 130.2(c)(1) DAYLIGHTING AVAILABILITY.
ii 130.2(c)(2) AUTOMATIC SCHEDULING CONTROLS.
iii 130.2(c)(3) MOTION SENSING CONTROLS.

J. ALL INTERIOR LIGHTING SHALL BE CONTROLLED PER TITLE 24, SECTION 130.1 (a) MANUAL CONTROLS, (b) MILTILEVEL LIGHTING CONTROLS, (c) SHUT OFF CONTROLS, (d) AUTOMATIC DAYLIGHTING CONTROLS, (e) DEMAND RESPONSIVE CONTROLS.

K. DAYLIGHTING NOT REQUIRED PER CALIFORNIA ENERGY CODE, TITLE 24, SECTION 130.1(d), ECEPTION 3. PRIMARY SIDELIT ZONES IS LESS THAN 120 WATTS.

1 ELECTRICAL LIGHTING PLAN

SCALE: 1/8" = 1'-0"

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EXP. 9-30-26
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STATE OF CALIFORNIA

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DRAWING SUBMITTAL SCHEDULE	
100% CONSTRUCTION DOCUMENTS	11/21/2025
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DWG V3	04/28/2026

PROJECT NO: 22434-E-02

ELECTRICAL - LIGHTING PLAN

E-211

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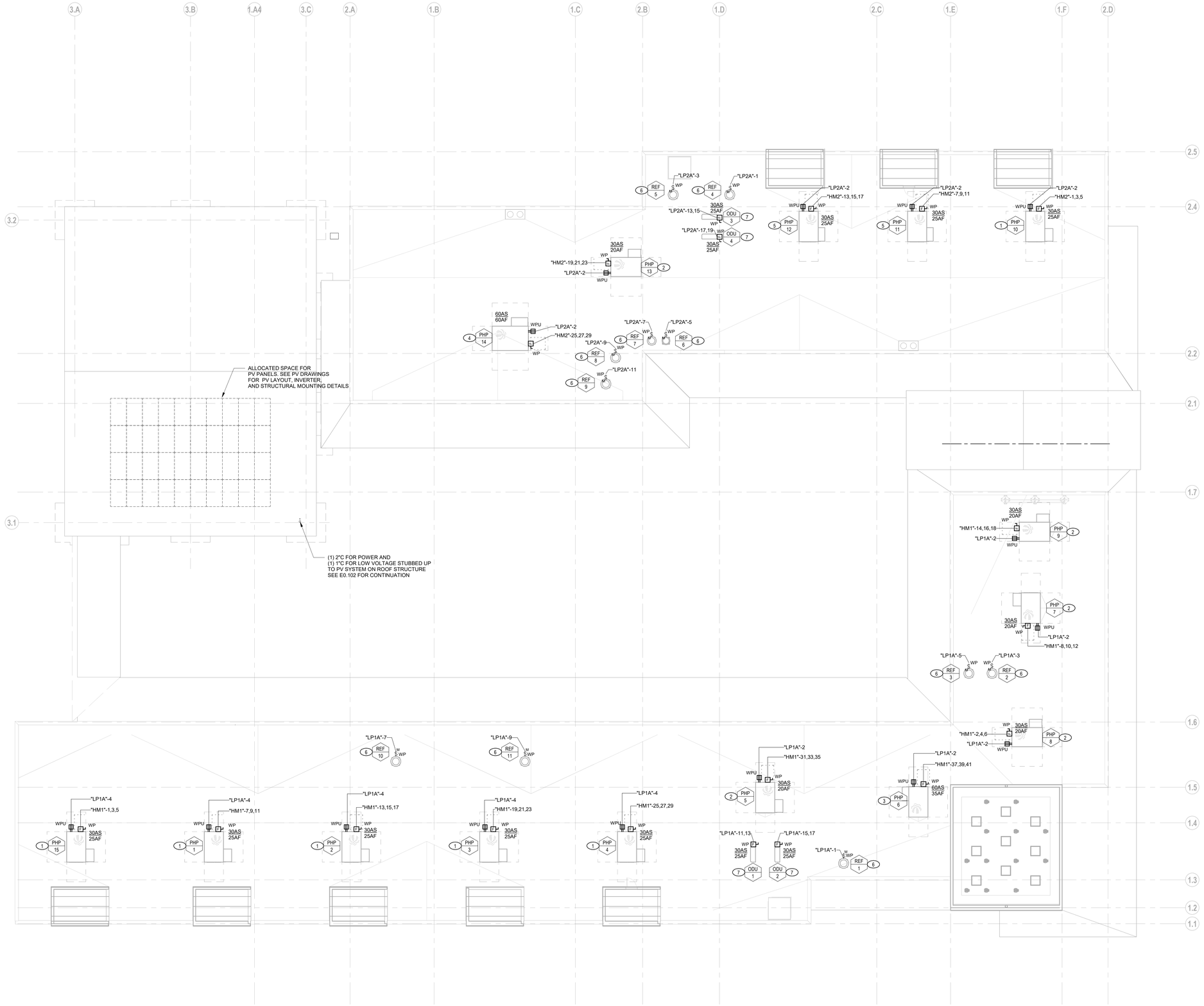

KEY NOTES

(#)

1 PROVIDE 480V, 3-PH, 3#10 CU, 1#10 CU, 1#10 CU GND, 3/4" CONDUIT FOR ROOFTOP UNIT, "PHP", 21 MCA, 25 MOCP. PROVIDE FUSED DISCONNECTS IN NEMA 3R ENCLOSURE.

2 PROVIDE 480V, 3-PH, 3#10 CU, 1#10 CU, 1#10 CU GND, 3/4" CONDUIT FOR ROOFTOP UNIT, "PHP", 19 MCA, 20 MOCP. PROVIDE FUSED DISCONNECTS IN NEMA 3R ENCLOSURE.

3 PROVIDE 480V, 3-PH, 3#8 CU, 1#10 CU, 1#10 CU GND, 3/4" CONDUIT FOR ROOFTOP UNIT, "PHP", 34 MCA, 35 MOCP. PROVIDE FUSED DISCONNECTS IN NEMA 3R ENCLOSURE.

4 PROVIDE 480V, 3-PH, 3#4 CU, 1#10 CU, 1#10 CU GND, 1 1/4" CONDUIT FOR ROOFTOP UNIT, "PHP", 55 MCA, 60 MOCP. PROVIDE FUSED DISCONNECTS IN NEMA 3R ENCLOSURE.

5 PROVIDE 480V, 3-PH, 3#10 CU, 1#10 CU, 1#10 CU GND, 3/4" CONDUIT FOR ROOFTOP UNIT, "PHP", 23 MCA, 25 MOCP. PROVIDE FUSED DISCONNECTS IN NEMA 3R ENCLOSURE.

6 PROVIDE 120V, 2#10 CU, 1#10 CU GND, 3/4"C, MOTOR RATED DISCONNECT SWITCH AT ROOF FOR EXHAUST FAN. FACTORY PRE-WIRED DISCONNECT SWITCH. REFER TO MECHANICAL SCHEDULES FOR MORE INFO.

7 PROVIDE 280V, 1-PH, 2#10 CU, 1#10 CU, 1#10 CU GND, 3/4" CONDUIT FOR ROOFTOP UNIT, "ODU", 24 MCA, 25 MOCP. PROVIDE FUSED DISCONNECTS IN NEMA 3R ENCLOSURE. ODU POWERS IDU. SEE E-201 FOR IDU LOCATION.

GENERAL NOTES

A. COORDINATE WITH ARCHITECTURAL DRAWINGS AND ALL OTHER DISCIPLINES FOR EXACT LOCATIONS OF JUNCTION BOXES, DISCONNECT SWITCHES, CONDUIT ENTRY AND POWER REQUIREMENTS OF THEIR EQUIPMENT.

B. COORDINATE ALL ELECTRICAL PENETRATIONS GOING THROUGH STRUCTURAL WALLS WITH STRUCTURAL DRAWINGS, ARCHITECTURAL DRAWINGS AND OTHER PARTIES INVOLVED PRIOR TO INSTALLATION.

C. FIRE SEAL ALL CONDUIT PENETRATIONS THROUGH FIRE-RATED WALLS AND FLOORS WITH AN APPROVED FIRE SEALANT AFTER CONDUIT INSTALLATION. SEAL SHALL PROVIDE EQUAL FIRE RATING AS ASSEMBLY PENETRATED.

D. ALL ELECTRICAL EQUIPMENT WORKING SPACE SHALL COMPLY WITH CEC SECTIONS 110.34 AND 110.73.

E. EXTERIOR ELECTRICAL OUTLETS INDICATED WEATHERPROOF WHILE IN USE "WPU" SHALL BE PROVIDED WITH WEATHERPROOF COVER, DIE-CAST METAL AS INDICATED ON ELECTRICAL SPECIFICATION 26 27 26.

F. ALL 15 AND 20 AMPERE RECEPTACLES, 125 AND 250 VOLT RATED, LOCATED IN WET OR DAMP LOCATIONS, SHALL BE WEATHER-RESISTANT TYPE PER CEC SECTION 406.9.

G. ALL 15 AND 20 AMPERE RECEPTACLES, 125 AND 250 VOLT RATED, LOCATED IN CLASSROOMS, CLASSROOM RESTROOMS, AND CLASS FUNCTION ROOMS, SHALL BE TAMPER-RESISTANT TYPE PER CEC SECTION 406.12.

H. ELECTRICAL RECEPTACLES, SWITCHES AND WALL CONTROLS MOUNTING HEIGHTS SHALL MEET ACCESSIBILITY REQUIREMENT FOR UNOBSTRUCTED FORWARD REACH PER CBC 11B-308.

1 **ELECTRICAL ROOF PLAN**
SCALE: 1/8" = 1'-0"

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PROJECT NO:22434-E-02

ELECTRICAL - ROOF PLAN

E-221

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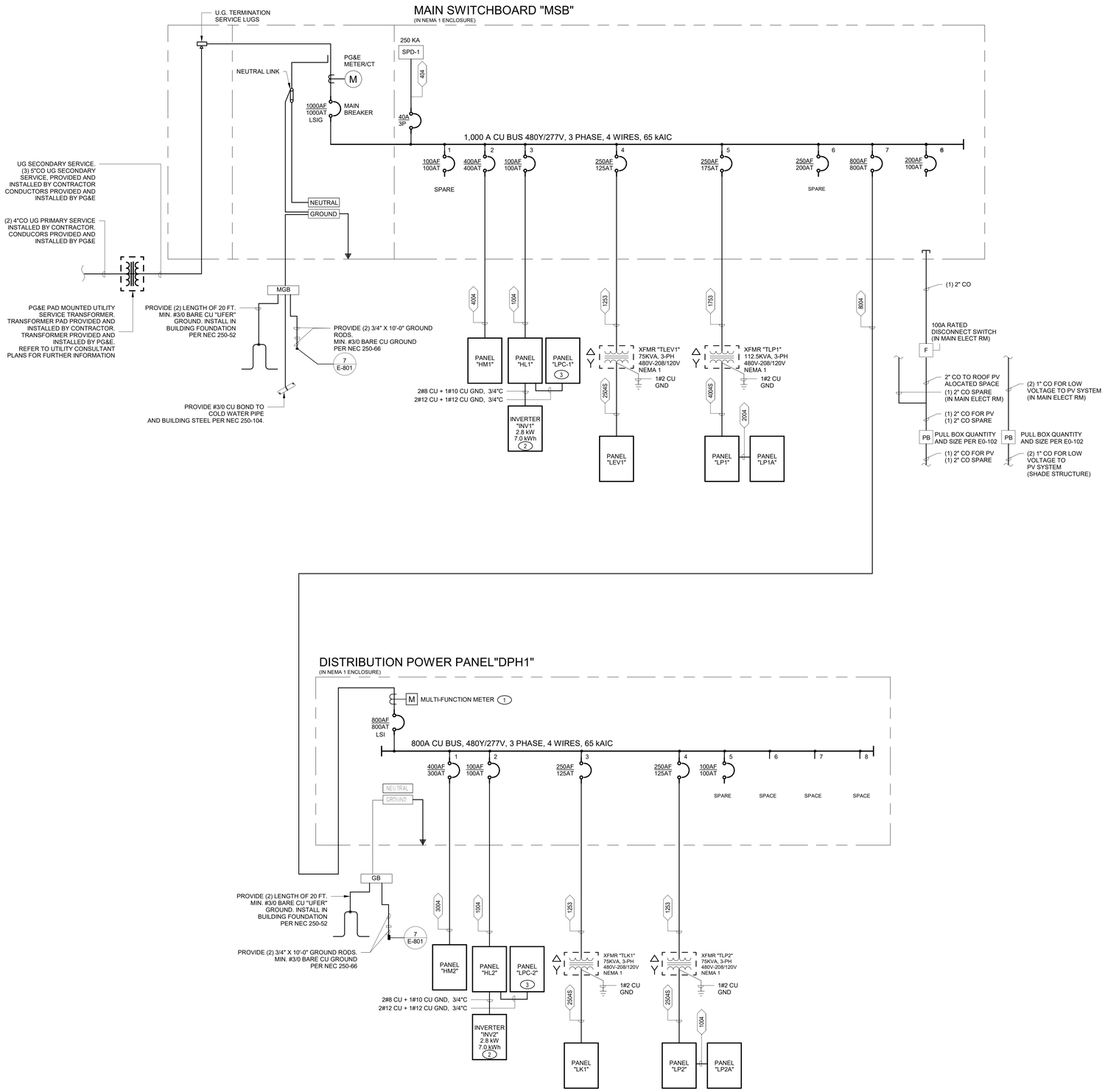

1 ELECTRICAL ONE-LINE DIAGRAM

SCALE: NONE

KEY NOTES

(#)

1 MULTI-FUNCTION METER TO BE PROVIDED WITH BACNET/IPS CONNECTIVITY. CONTRACTOR TO MAKE CONNECTION TO THE EMS SYSTEM. COORDINATE WITH LOW VOLTAGE AND EMS INSTALLER FOR CONDUIT AND WIRES REQUIRED.

2 PROVIDE AND INSTALL 2.8 KW MYERS LIGHTING INVERTER, MODEL #6-EM-4-S-B-D-20-10-BTM-C-P-BIP-2YW.

3 PROVIDE LIGHTING CONTROL PANEL "LCP", WATTSTOPPER #LMC48-10V-115/277-24HDR-24EM277 WITH WIRELESS CONFIGURATION TOOL OR APPROVED EQUAL.

GENERAL NOTES

A. UNLESS OTHERWISE NOTED, ALL FEEDER AND BRANCH CIRCUIT WIRES SHALL BE COPPER. REFER TO FEEDER SCHEDULE FOR ADDITIONAL NOTES.

B. SERVICE CONDUITS, WIRES, EQUIPMENT AND METERING PROVISIONS SHALL MEET UTILITY COMPANY REQUIREMENTS.

C. ALL CONDUCTORS CONNECTED IN PARALLEL SHALL COMPLY WITH CEC 310.10 (H).

D. PERFORM A SHORT CIRCUIT, PROTECTIVE DEVICE COORDINATION AND ARC FLASH STUDY FOR THE PROJECT COMPLETE ELECTRICAL DISTRIBUTION SYSTEM AND SUBMIT TO THE ELECTRICAL ENGINEER FOR REVIEW. PROVIDE ALL SHORT CIRCUIT DEVICE AND EQUIPMENT INFORMATION FOR ALL ELECTRICAL COMPONENTS. PROVIDE TIME-CURRENT CURVES FOR ALL OVERCURRENT PROTECTIVE DEVICES IN THE SUBMITTAL. SET ALL ADJUSTABLE DEVICES IN ACCORDANCE WITH THERESULTS OF THE STUDY PRIOR TO ENERGIZING EQUIPMENT.

E. PROVIDE PERMANENT LABELS FOR ALL ELECTRICAL SERVICE AND DISTRIBUTION EQUIPMENT TO CLEARLY IDENTIFY THE AVAILABLE SHORT CIRCUIT CURRENT, ARC FLASH ENERGY LEVELS AND MINIMUM REQUIRED PPE (PERSONNEL PROTECTIVE EQUIPMENT).

F. ALL SWITCHBOARDS, DISTRIBUTION PANELS, AND PANELBOARDS SHALL BE FULLY RATED FOR INTERRUPTING CAPACITY, SERIES RATED EQUIPMENT SHALL NOT BE ACCEPTED.

G. EACH SERVICE DISCONNECT SHALL BE PERMANENTLY MARKED TO IDENTIFY IT AS A SERVICE DISCONNECT PER CEC 230.70(B).

H. MAXIMUM AVAILABLE FAULT CURRENT (AFC) SHALL BE FIELD MARKED ON ALL SERVICE EQUIPMENT, LEGIBLY, AND SHALL INCLUDE DATE AFC CALCULATION WAS PERFORMED, PER CEC SECTION 110.24(A).

I. OBTAIN ALL INFORMATION NECESSARY TO PERFORM THE REQUIRED SHORT CIRCUIT, PROTECTIVE DEVICE COORDINATION AND ARC FLASH STUDY, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

1. CONTACTING THE POWER UTILITY COMPANY AND OBTAINING AVAILABLE SHORT CIRCUIT CURRENT AT THE PROJECT POINT OF CONNECTION, OR SECONDARY OF THE UTILITY COMPANY SERVICE TRANSFORMER(S). LETTER FOR SHORT CIRCUIT CURRENT VALUE FROM UTILITY COMPANY SHALL BE AVAILABLE AT THE JOB SITE FOR INSPECTION.

2. FIELD INVESTIGATION TO DETERMINE THE SHORT CIRCUIT CURRENT RATING FOR ANY EXISTING ELECTRICAL SERVICE AND DISTRIBUTION EQUIPMENT.

3. GATHERING THE EQUIPMENT SUBMITTALS FOR ALL NEW ELECTRICAL SERVICE AND DISTRIBUTION EQUIPMENT.

J. ALL CIRCUIT BREAKERS RATED 1,200A OR HIGHER SHALL HAVE A METHOD TO REDUCE CLEARING TIME AND MEET CEC 240.87 FOR ARC ENERGY REDUCTION.

K. A LISTED SURGE-PROTECTIVE DEVICE (SPD) SHALL BE INSTALLED IN OR ON ALL EMERGENCY SYSTEMS SWITCHBOARDS AND PANELBOARDS PER CEC 700.8

L. REFER TO ADDITIONAL GENERAL NOTES ON ELECTRICAL COVER SHEET, AND POWER SYSTEM STUDIES SPEC SECTION 26 05 73.

M. PV SYSTEM WIRE AND CONDUIT SIZE REFER TO PV DRAWINGS.

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ELECTRICAL ONE-LINE DIAGRAM

E-501

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ONE-LINE DIAGRAM FEEDER SCHEDULE

3Ø, 3W + GND CIRCUITS

FEEDER TAG	RATING	CONDUIT		PHASE CONDUCTORS	EQUIP. GND. CONDUCTOR (EGC)
		EMT	PVC		
◇	(AMPS)			(COPPER)	(NEC TABLE 250.122)
203	20	3/4"C	1"C	(3) #12	#12
253	25	3/4"C	1"C	(3) #10	#10
303	30	3/4"C	1"C	(3) #10	#10
403	40	3/4"C	1"C	(3) #8	#10
453	45	1"C	1"C	(3) #6	#10
503	50	1"C	1"C	(3) #6	#10
603	60	1-1/4"C	1-1/4"C	(3) #4	#10
703	70	1-1/4"C	1-1/4"C	(3) #4	#8
803	80	1-1/4"C	1-1/2"C	(3) #2	#8
903	90	1-1/4"C	1-1/2"C	(3) #2	#8
1003	100	1-1/2"C	2"C	(3) #1	#8
1253	125	1-1/2"C	2"C	(3) #1	#6
1503	150	2"C	2"C	(3) #1/0	#6
1753	175	2"C	2"C	(3) #2/0	#6
2003	200	2"C	2-1/2"C	(3) #3/0	#6
2253	225	2-1/2"C	2-1/2"C	(3) #4/0	#4
2503	250	2-1/2"C	3"C	(3) #250 KCMIL	#4
3003	300	3"C	3"C	(3) #350 KCMIL	#4
3503	350	3"C	3-1/2"C	(3) #500 KCMIL	#3
4003	400	(2) 2"C	(2) 2-1/2"C	(3) #3/0 (EACH)	#3 (EACH)
4503	450	(2) 2-1/2"C	(2) 2-1/2"C	(3) #4/0 (EACH)	#2 (EACH)
5003	500	(2) 2-1/2"C	(2) 3"C	(3) #250 KCMIL (EACH)	#2 (EACH)
6003	600	(2) 3"C	(2) 3"C	(3) #350 KCMIL (EACH)	#1 (EACH)
7003	700	(2) 3"C	(2) 3-1/2"C	(3) #500 KCMIL	#1/0 (EACH)
8003	800	(3) 2-1/2"C	(3) 3"C	(3) #300 KCMIL (EACH)	#1/0 (EACH)
10003	1000	(3) 3"C	(3) 3-1/2"C	(3) #400 KCMIL (EACH)	#2/0 (EACH)
12003	1200	(4) 3"C	(4) 3"C	(3) #350 KCMIL (EACH)	#3/0 (EACH)
16003	1600	(5) 3"C	(5) 3-1/2"C	(3) #400 KCMIL (EACH)	#4/0 (EACH)
20003	2000	(6) 3"C	(6) 3-1/2"C	(3) #400 KCMIL (EACH)	#250 KCMIL (EACH)
25003	2500	(7) 3"C	(7) 3-1/2"C	(3) #500 KCMIL (EACH)	#350 KCMIL (EACH)
30003	3000	(8) 3"C	(8) 3-1/2"C	(3) #500 KCMIL (EACH)	#400 KCMIL (EACH)
40003	4000	(10) 3-1/2"C	(10) 4"C	(3) #600 KCMIL (EACH)	#500 KCMIL (EACH)

3Ø, 4W + GND CIRCUITS

FEEDER TAG	RATING	CONDUIT		PHASE, NEUTRAL CONDUCTORS	EQUIP. GND. CONDUCTOR (EGC)
		EMT	PVC		
◇	(AMPS)			(COPPER)	(NEC TABLE 250.122)
204	20	3/4"C	1"C	(4) #12	#12
254	25	3/4"C	1"C	(4) #10	#10
304	30	3/4"C	1"C	(4) #10	#10
404	40	1"C	1"C	(4) #8	#10
454	45	1"C	1-1/4"C	(4) #6	#10
504	50	1"C	1-1/4"C	(4) #6	#10
604	60	1-1/4"C	1-1/4"C	(4) #4	#10
704	70	1-1/4"C	1-1/4"C	(4) #4	#8
804	80	1-1/2"C	1-1/2"C	(4) #2	#8
904	90	1-1/2"C	1-1/2"C	(4) #2	#8
1004	100	2"C	2"C	(4) #1	#8
1254	125	2"C	2"C	(4) #1	#6
1504	150	2"C	2"C	(4) #1/0	#6
1754	175	2"C	2-1/2"C	(4) #2/0	#6
2004	200	2-1/2"C	2-1/2"C	(4) #3/0	#6
2254	225	2-1/2"C	3"C	(4) #4/0	#4
2504	250	2-1/2"C	3"C	(4) #250 KCMIL	#4
3004	300	3"C	3-1/2"C	(4) #350 KCMIL	#4
3504	350	3-1/2"C	4"C	(4) #500 KCMIL	#3
4004	400	(2) 2-1/2"C	(2) 2-1/2"C	(4) #3/0 (EACH)	#3 (EACH)
4504	450	(2) 2-1/2"C	(2) 3"C	(4) #4/0 (EACH)	#2 (EACH)
5004	500	(2) 2-1/2"C	(2) 3"C	(4) #250 KCMIL (EACH)	#2 (EACH)
6004	600	(2) 3"C	(2) 3-1/2"C	(4) #350 KCMIL (EACH)	#1 (EACH)
7004	700	(2) 3-1/2"C	(2) 4"C	(4) #500 KCMIL	#1/0 (EACH)
8004	800	(3) 3"C	(3) 3-1/2"C	(4) #300 KCMIL (EACH)	#1/0 (EACH)
10004	1000	(3) 3"C	(3) 3-1/2"C	(4) #400 KCMIL (EACH)	#2/0 (EACH)
12004	1200	(4) 3"C	(4) 3-1/2"C	(4) #350 KCMIL (EACH)	#3/0 (EACH)
16004	1600	(5) 3"C	(5) 3-1/2"C	(4) #400 KCMIL (EACH)	#4/0 (EACH)
20004	2000	(6) 3"C	(6) 3-1/2"C	(4) #400 KCMIL (EACH)	#250 KCMIL (EACH)
25004	2500	(7) 3-1/2"C	(7) 4"C	(4) #500 KCMIL (EACH)	#350 KCMIL (EACH)
30004	3000	(8) 3-1/2"C	(8) 4"C	(4) #500 KCMIL (EACH)	#400 KCMIL (EACH)
40004	4000	(10) 4"C	(10) 4"C	(4) #600 KCMIL (EACH)	#500 KCMIL (EACH)

3Ø, 3W + GND CIRCUITS ADJUSTED FOR VOLTAGE DROP

3Ø, 4W + GND CIRCUITS ADJUSTED FOR VOLTAGE DROP

NOTES:

A. ALL CONDUCTORS SHALL BE DUAL RATED THHN/THWN, 90°/75°, 600V, COPPER WHERE INSTALLED UNDERGROUND OR IN WET LOCATIONS.

B. CONDUCTOR SIZES ARE BASED ON 2020 NEC TABLE 310.16, COPPER.

C. ALL CIRCUITS 100A AND LOWER ARE SIZED FROM THE 60° COLUMN (NEC 110.14(C)). ALL OTHER CIRCUITS ARE SIZED FROM THE 75° COLUMN.

D. PVC CONDUIT HAS BEEN SIZED BASED ON TABLE C.1 - SCHEDULE 80.

E. WHERE UNGROUNDED CONDUCTORS ARE INCREASED FROM THE MINIMUM SIZE DUE TO VOLTAGE DROP, THE EGC SHALL BE UPSIZED PROPORTIONATELY ACCORDING TO CIRCULAR MIL (NEC 250.122(B)).

F. FOR 100A RATED FEEDERS, THE TERMINATION PROVISIONS OF EQUIPMENT SHALL BE LISTED AND IDENTIFIED FOR USE WITH 75°C CONDUCTOR TEMPERATURE RATING. OTHERWISE, PROVIDE #1/0 CONDUCTORS.

MISCELLANEOUS

PS	PRIMARY SERVICE	N/A		PULL STRING	N/A
SEC	SECONDARY SERVICE				N/A
EXIST	EXISTING FEEDER			(E) CONDUCTORS	(E)

TRANSFORMER SCHEDULE

TRANSFORMER KVA	PRIMARY 480V 3Ø, 3W			SECONDARY 120/208V 3Ø, 4W						
	125% PRIMARY	OVERCURRENT PROTECTION	FEEDER TAG [1]	125% SECONDARY	OVERCURRENT PROTECTION	FEEDER TAG [2]	CONDUIT	PHASE, NEUTRAL CONDUCTORS	SUPPLY SIDE BONDING JUMPER [3]	GROUNDING ELECTRODE CONDUCTOR (EGC) [4]
	AMPS	AMPS				◇	(EMT)	(COPPER)	(NEC TABLE 250.102(C)(1))	(NEC TABLE 250.66)
15	23	25	253	52	50	504S	1"C	(4) #6	#8	#8
30	45	45	453	104	100	1004S	2"C	(4) #1	#6	#6
45	68	70	703	156	150	1504S	2"C	(4) #1/0	#6	#6
75	113	125	1253	260	250	2504S	2-1/2"C	(4) #250 KCMIL	#2	#2
112.5	169	175	1753	390	400	4004S	(2) 2-1/2"C	(4) #3/0 (EACH)	#2 (EACH)	#2
150	226	225	2253	520	500	5004S	(2) 2-1/2"C	(4) #250 KCMIL (EACH)	#1/0 (EACH)	#1/0
225	338	350	3503	781	800	8004S	(3) 3"C	(4) #300 KCMIL (EACH)	#2/0 (EACH)	#2/0
300	451	450	4503	1041	1000	10004S	(3) 3"C	(4) #400 KCMIL (EACH)	#3/0 (EACH)	#3/0
500	752	800	8003	1735	1600	16004S	(5) 3"C	(4) #400 KCMIL (EACH)	#250 KCMIL (EACH)	#3/0
750	1128	1200	12003	2602	2500	25004S	(7) 3-1/2"C	(4) #500 KCMIL (EACH)	#500 KCMIL (EACH)	#3/0

FOOTNOTES:

1. SEE ONE-LINE DIAGRAM FEEDER SCHEDULE.
2. THE LENGTH OF THE TRANSFORMER SECONDARY CONDUCTORS SHALL NOT EXCEED 10 FT PER NEC 240.21(C)(2).
3. INSTALL BETWEEN TRANSFORMER AND SECONDARY OVERCURRENT PROTECTION PER NEC 250.102.
4. CONNECT TO THE BUILDING OR STRUCTURE GROUNDING ELECTRODE SYSTEM PER NEC 250.30.

NOTES:

A. ALL CONDUCTORS SHALL BE DUAL RATED THHN/THWN, 90°/75°, 600V, COPPER WHERE INSTALLED UNDERGROUND OR IN WET LOCATIONS.

B. CONDUCTOR SIZES ARE BASED ON 2020 NEC TABLE 310.16, COPPER.

C. ALL CIRCUITS 100A AND LOWER ARE SIZED FROM THE 60° COLUMN (NEC 110.14(C)). ALL OTHER CIRCUITS ARE SIZED FROM THE 75° COLUMN.

D. WHERE UNGROUNDED CONDUCTORS ARE INCREASED FROM THE MINIMUM SIZE DUE TO VOLTAGE DROP, THE EGC SHALL BE UPSIZED PROPORTIONATELY ACCORDING TO CIRCULAR MIL (NEC 250.122(B)).

ELECTRICAL SERVICE LOAD CALCULATION

(CEC 220)

INTERIOR LIGHTING 16572	**SQ. FT. @ 3.00**	**VA PER SQ. FT.**			**49.72**	**KVA**
COVERED AREA LTG 2913	**SQ. FT. @ 3.00**	**VA PER SQ. FT.**			**8.74**	**KVA**
GENERAL PURPOSE RECEPTACLE OUTLETS	**16.57**	**KVA**				
FIRST 10 KVA OR LESS			**@ 100% =**		**10.00**	**KVA**
REMAINDER OVER 10 KVA =	**6.57**		**@ 50% =**		**3.29**	**KVA**
HEATING, VENTILATING AND AIR CONDITIONING EQUIPMENT						
PHP - 2, 6, 8, 9, 10, 14 (3 TON)	**11.82**	**KVA EA.**		**6**	**70.90**	**KVA**
PHP - 1, 3, 11, 12, 13 (4 TON)	**12.68**	**KVA EA.**		**5**	**63.41**	**KVA**
PHP - 4, 5, 7 (5 TON)	**12.97**	**KVA EA.**		**3**	**38.91**	**KVA**
PHP - 15 (10 TON)	**25.65**	**KVA EA.**		**1**	**25.65**	**KVA**
ODU /IDU	**3.99**	**KVA EA.**		**4**	**15.97**	**KVA**
ROOF EXHAUST FANS	**0.34**	**KVA EA.**		**8**	**2.74**	**KVA**
WATER HEATING EQUIPMENT						
WATER HEATER	**18.00**	**KVA EA**		**1**	**18.00**	**KVA**
CIRCULATING PUMP (1/12HP)	**0.2**	**KVA EA**		**1**	**0.16**	**KVA**
INSTA WATER HEATER	**4.20**	**KVA EA**		**3**	**12.60**	**KVA**
KITCHEN EQUIPMENT:						
AIR CURTAIN	**0.4**	**KVA EA**	**1**		**0.35**	**KVA**
REACH-IN FREEZER	**1.5**	**KVA EA**	**1**		**1.50**	**KVA**
REACH-IN REFRIGERATOR	**1.5**	**KVA EA**	**1**		**1.50**	**KVA**
RETHERMALIZER / HOLD CABINER	**12.0**	**KVA EA**	**1**		**12.00**	**KVA**
MOBILE HEATED HOLDING CABINET	**16.0**	**KVA EA**	**1**		**16.00**	**KVA**
SELF-SERVICE BEVERAGE	**6.0**	**KVA EA**	**1**		**6.00**	**KVA**
COMBI OVEN (6 FULL + 10 FULL)	**0.0**	**KVA EA**	**1**		**0.00**	**KVA**
ANSEL SYSTEM	**0.0**	**KVA EA**	**1**		**0.00**	**KVA**
POS	**0.6**	**KVA EA**	**2**		**1.20**	**KVA**
WATER HEATER	**18.0**	**KVA EA**	**1**		**18.00**	**KVA**
OTHER EQUIPMENT:						
IT EQUIPMENT	**5.0**	**KVA EA**	**4**		**20.00**	**KVA**
BOOSTER PUMP (2HP)	**2.8**	**KVA EA**		**1**	**2.83**	**KVA**
CALGREEN NON-RESIDENTAIL EV REQUIREMTNS (TABLE 5.106.5.3.1)						
EVSE (Total PS: 26-50)	**6.70**	**KVA EA**	**2**		**16.75**	**KVA**
EV CAPABLE (Total PS: 26-50)	**6.70**	**KVA EA**	**6**		**50.25**	**KVA**
LARGEST MOTOR (10HP) = 11.64		**KVA @ 25% =**			**2.91**	**KVA**
TOTAL SERVICE LOAD					**= 469.36**	**KVA**

469.4 KVA @ 277/480 VOLT , 3 PHASE = 565 AMPERES

PROVIDE 1000 AMP, 277/480 VOLT, 3 PHASE, 4 WIRE SERVICE.

VOLTAGE DROP CALCULATIONS

Project: Name

Note: Enter Nominal Conductor Sizes except as below:
1/0 = 101, 2/0 = 102, 3/0 = 103, 4/0 = 104

Circuit			Raceway	Conductor				Load		Line-to-Neutral		Line-to-Line	
Designation	Voltage	Phase	Metallic (M) or Non-Metallic (NM)	Material (AL) or (CU)	Nominal Size	Parallel Runs	Length in Feet	AMPS	Power Factor	Volt Drop	%	Volt Drop	%
PNL "HM1"	480	3	M	CU	350	1	120	300.0	85%			3.71	0.77
PNL "HL1"	480	3	M	CU	1	1	35	80.0	85%			0.81	0.17
XFMR "TLEV1"	480	3	M	CU	1	1	10	90.0	85%			0.26	0.05
PNL "LEV1"	208	3	M	CU	250	1	15	200.0	85%			0.38	0.18
XFMR "TLP1"	480	3	M	CU	102	1	10	135.0	85%			0.27	0.06
PNL "LP1"	208	3	M	CU	103	2	15	360.0	85%			0.44	0.21
PNL "LP1A"	208	3	M	CU	103	1	15	160.0	85%			0.39	0.19
PNL "DPH1"	480	3	NM	CU	300	3	410	600.0	85%			8.38	1.75
PNL "HM2"	480	3	M	CU	250	1	25	200.0	85%			0.63	0.13
PNL "HL2"	480	3	M	CU	1	1	25	80.0	85%			0.58	0.12
XFMR "TLK1"	480	3	M	CU	1	1	10	90.0	85%			0.26	0.05
PNL "LK1"	208	3	M	CU	250	1	15	200.0	85%			0.38	0.18
XFMR "TLP2"	480	3	M	CU	1	1	10	90.0	85%			0.26	0.05
PNL "LP2"	208	3	M	CU	250	1	15	180.0	85%			0.34	0.16
PNL "LP2A"	208	3	M	CU	1	1	15	80.0	85%			0.35	0.17

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Roseville, CA 95678
p 916-771-0778
www.lpengineers.com
Job #: 24-2161

REGISTERED PROFESSIONAL ENGINEER
RAMI S. ZEID
No. E 16762
EXP. 9-30-26
ELECTRICAL
STATE OF CALIFORNIA

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KERN HIGH SCHOOL DISTRICT
5801 SUNDALE AVE.
BAKERSFIELD, CA 93309

CENTRAL VALLEY
CONTINUATION HIGH SCHOOL CAMPUS
526 MANNEL AVENUE
SHAFTER, CA 93263

DRAWING SUBMITTAL SCHEDULE	
100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO:22434-E-02

ELECTRICAL SCHEDULES

E-601

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LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	MODEL	LAMP	LUMENS	COLOR TEMP	VOLTS	WATTS	MOUNTING	DESCRIPTION
A1	LITHONIA LIGHTING	LFRM-2X2-AL03-SWW7-MVOLT-M6	LED	3130 lm	3500 K	277 V	24.0 W	T-BAR, REFER E5.5 FOR MOUNTING (TYP. ALL FIXTURES)	LAY-IN 2X4. FOR FIXTURES DENOTED "EM" PROVIDE ADDITIONAL CONNECTION TO EMERGENCY INVERTER
A2	LITHONIA LIGHTING	LFRM-2X4-AL03-SWW7-MVOLT-M6	LED	4190 lm	3500 K	277 V	31.0 W	T-BAR, REFER E5.5 FOR MOUNTING (TYP. ALL FIXTURES)	LAY-IN 2X4. FOR FIXTURES DENOTED "EM" PROVIDE ADDITIONAL CONNECTION TO EMERGENCY INVERTER
A3	LITHONIA LIGHTING	CPX-2X4-4000LM-80-35K-SWL-MVOLT	LED	4817 lm	3500 K	277 V	37.0 W	T-BAR, REFER E5.5 FOR MOUNTING (TYP. ALL FIXTURES)	LAY-IN 2X4. FOR FIXTURES DENOTED "EM" PROVIDE ADDITIONAL CONNECTION TO EMERGENCY INVERTER
D1	LITHONIA LIGHTING	LDN4SQ-35-07-LS4-WR-XXX-TRW-MVOLT	LED	750 lm	3500 K	277 V	9.0 W	RECESSED	6" SQUARE LED DOWNLIGHT WITH 0-10V DIMMING DRIVER
D2	LITHONIA LIGHTING	LDN4SQ-35-40-LS4-WR-XXX-TRW-MVOLT	LED	4000 lm	3500 K	277 V	43.0 W	RECESSED	6" SQUARE LED DOWNLIGHT WITH 0-10V DIMMING DRIVER
E1	LITHONIA LIGHTING	CLX-L48-4000LM-HEF-L/LENS-AD2-MVOLT-35K-80CRI	LED	4000 lm	3500 K	277 V	26.0 W	SURFACE / PENDANT @ 10'-0" AFF	LINEAR UTILITY FIXTURE. PROVIDE PENDANT / SURFACE MOUNTING HARDWARE AS REQUIRED
J1	LITHONIA LIGHTING	OLVTWM	LED	600 lm	4000 K	277 V	15.0 W	WALL MOUNTED @ +8" A.F.G. TO BOTTOM OF FACEPLATE	VAPOR TIGHT WALL MOUNTED
P1	LITHONIA LIGHTING	REBL-ALO13-MD-UVOLT-SWW3-80-DBL (REBLPCLR U) (REBLPSB DBL)	LED	13603 lm	4000 K	277 V	80.0 W	PENDANT @ 20'-0" AFF	WET LISTED LED PENDANT MOUNTED CYLINDRICAL FIXTURE WITH IK10 IMPACT RATED POLYCARBONATE LENS
S1	LITHONIA LIGHTING	DSX1-P3-40-80-BLC4-MVOLT-SPA-PIR	LED	9487 lm	4000 K	277 V	102.0 W	ROUND POLE @ 25'-0" AFG	SINGLE HEAD POLE MOUNTED, BUG: B = 0, U = 0, G = 2. POLE: LITHONIA SSS 25 4G STANDARD COVER BASE FBCSTL2PC.
S2	LITHONIA LIGHTING	DSX1-P3-40-80-T5M-MVOLT-SPA-PIR	LED	13286 lm	4000 K	277 V	102.0 W	ROUND POLE @ 25'-0" AFG	SINGLE HEAD POLE MOUNTED, BUG: B = 4, U = 0, G = 2. POLE: LITHONIA SSS 25 4G STANDARD COVER BASE FBCSTL2PC.
S3	LITHONIA LIGHTING	DSX1-P3-40-80-T3M-MVOLT-SPA-PIR	LED	12628 lm	4000 K	277 V	102.0 W	ROUND POLE @ 25'-0" AFG	SINGLE HEAD POLE MOUNTED, BUG: B = 2, U = 0, G = 4. POLE: POLE: LITHONIA SSS 25 4G STANDARD COVER BASE FBCSTL2PC.
S4	COOPER LIGHTING	LXS-VA-4-830-U-AST-C-BK-MS-L20	LED	9540 lm	4000 K	277 V	96.0 W	ROUND PEDESTRIAN POLE @ 18'-0" AFG	SINGLE HEAD POLE MOUNTED, BUG: B = 4, U = 0, G = 3. POLE WITH STANDARD BASE COVER PLATE.
V2	LITHONIA LIGHTING	FMVCCLS-24-MVOLT-35-90-XXX	LED	1573 lm	3500 K	277 V	18.0 W	WALL MOUNTED ABOVE MIRROR	2FT WALL-MOUNTED VANITY LIGHT
V4	LITHONIA LIGHTING	FMVCCLS-48-MVOLT-35-90-XXX	LED	2987 lm	3500 K	277 V	35.0 W	WALL MOUNTED ABOVE MIRROR	4FT WALL-MOUNTED VANITY LIGHT
W1	LITHONIA LIGHTING	WDGE1-P0-40-80-VW	LED	760 lm	4000 K	277 V	7.0 W	WALL MOUNTED @ +8" A.F.G. TO BOTTOM OF FACEPLATE	WALL MOUNTED LUMINAIRE
W2	LITHONIA LIGHTING	WDGE3-P1-4-70-RFT	LED	7591 lm	4000 K	277 V	51.0 W	WALL MOUNTED @ +8" A.F.G. TO BOTTOM OF FACEPLATE	WALL MOUNTED LUMINAIRE
X1	LITHONIA LIGHTING	LQC 1 G EL N	LED	0 lm	0 K	277 V	2.8 W	WALL MOUNTED ABOVE DOOR	ILLUMINATED EXIT SIGN WITH EMERGENCY BATTERY BACKUP AND SELF DIAGNOSTICS.
X2	LITHONIA LIGHTING	LQC 1 G EL N	LED	0 lm	0 K	277 V	3.0 W	CEILING SURFACE MTD.	ILLUMINATED EXIT SIGN WITH EMERGENCY BATTERY BACKUP AND SELF DIAGNOSTICS.

LIGHTING FIXTURE SCHEDUEL NOTES:

1. EMERGENCY LIGHT FIXTURES SHALL BE CONNECTED TO LIGHTING INVERTER SHOWN ON PLANS AND BE ABLE TO RUN FOR 90 MINUTE MINIMUM TIME AND SHALL BE UL-LISTED.
2. EXIT LIGHTS SHALL BE CONNECTED TO LIGHTING INVERTER SHOWN ON PLANS AND BE ABLE TO RUN FOR 90 MINUTE MINIMUM TIME AND SHALL BE UL-LISTED.
3. CONTRACTOR TO COORDINATE, VERIFY, AND CONFIRM WITH ARCHITECT, DISTRICT FOR FINAL LIGHT FIXTURE COLORS AND FINISHES.
4. CONTRACTOR TO COORDINATE, VERIFY, AND CONFIRM WITH ARCHITECT, DISTRICT FOR FINAL LIGHT POLE TYPE, COLOR, AND FINISHES. REFER TO ELECTRICAL DRAWINGS FOR MOUNTING HEIGHT AND FIXTURE TYPE.

LIGHTING CONTROL SEQUENCE OF OPERATIONS

AREA	AREA CONTROLS	MULTI-LEVEL CONTROLS	SHUT-OFF CONTROLS	AUTOMATIC DAYLIGHTING CONTROLS (PHOTOCELL)	DEMAND RESPONSIVE CONTROLS	ACCEPTANCE TESTING & CERTIFICATION	NOTES
LOBBY, LOUNGE AREAS	ON/OFF CONTROL	YES	OCCUPANCY SENSOR	YES, WITHIN DAYLIT ZONES	YES, PROGRAMMABLE AND ADDRESSABLE CONTROL SYSTEM IF LPD IS GREATER THAN 0.5 W/SF	YES	DIM TO 50% WHEN ZONE IS UNOCCUPIED
CORRIDORS AND CIRCULATION	ON/OFF CONTROL	YES	OCCUPANCY SENSOR	YES, WITHIN DAYLIT ZONES	YES, PROGRAMMABLE AND ADDRESSABLE CONTROL SYSTEM IF LPD IS GREATER THAN 0.5 W/SF	YES	DIM TO 50% WHEN ZONE IS UNOCCUPIED
WAREHOUSE/SALE AREA	ON/OFF CONTROL	YES	OCCUPANCY SENSOR	YES, WHEN SUFFICIENT DAYLIGHT IS SENSED	YES, PROGRAMMABLE AND ADDRESSABLE CONTROL SYSTEM	YES	DIM TO 50% WHEN ZONE IS UNOCCUPIED
EGRESS STAIRS AND VESTIBULES	ON/OFF CONTROL	YES	OCCUPANCY SENSOR	NO	YES, PROGRAMMABLE AND ADDRESSABLE CONTROL SYSTEM IF LPD IS GREATER THAN 0.5 W/SF	YES	DIM TO 50% WHEN ZONE IS UNOCCUPIED
EXTERIOR EGRESS STAIRS AND VESTIBULES	ON/OFF CONTROL	YES, ANY FIXTURE >30W	BUILDING TIMECLOCK	YES, WHEN SUFFICIENT DAYLIGHT IS SENSED	YES, PROGRAMMABLE AND ADDRESSABLE CONTROL SYSTEM	YES	DIM TO 50% WHEN ZONE IS UNOCCUPIED
BREAKROOM, MULTI PURPOSE ROOM, COMMUNITY ROOM	ON/OFF CONTROL	YES	OCCUPANCY SENSOR	NO	YES, PROGRAMMABLE AND ADDRESSABLE CONTROL SYSTEM IF LPD IS GREATER THAN 0.5 W/SF	YES	DIM TO 50% WHEN ZONE IS UNOCCUPIED
RESTROOMS	ON/OFF CONTROL	YES, IF LPD IS GREATER THAN 0.5 W/SF	OCCUPANCY SENSOR	NO	YES, PROGRAMMABLE AND ADDRESSABLE CONTROL SYSTEM IF LPD IS GREATER THAN 0.5 W/SF	YES	DIM TO 50% WHEN ZONE IS UNOCCUPIED
ELECTRICAL ROOMS, ELEVATOR MACHINE ROOM, ELEVATOR PITS, AND ELEVATOR HOISTWAYS	ON/OFF CONTROL	YES, IF LPD IS GREATER THAN 0.5 W/SF	NO	NO	TYPICALLY UNINHABITABLE	YES	
MECHANICAL, PLUMBING, AND TELECOM EQUIPMENT ROOMS GREATER THAN 100 SQ FT	ON/OFF CONTROL	YES, IF LPD IS GREATER THAN 0.5 W/SF	NO	NO	TYPICALLY UNINHABITABLE	YES	
STORAGE ROOMS, BUILDING MAINTENANCE RESTROOMS, JANITOR'S CLOSETS, TRASH RM	ON/OFF CONTROL	YES, IF LPD IS GREATER THAN 0.5 W/SF	OCCUPANCY SENSOR	NO	TYPICALLY UNINHABITABLE	YES	AUTO OFF WHEN ZONE IS UNOCCUPIED
MAIL ROOM	ON/OFF CONTROL	YES, IF LPD IS GREATER THAN 0.5 W/SF	OCCUPANCY SENSOR	NO	YES, PROGRAMMABLE AND ADDRESSABLE CONTROL W/SF	YES	DIM TO 50% WHEN ZONE IS UNOCCUPIED
ELEVATOR LOBBY	ON/OFF CONTROL	YES	OCCUPANCY SENSOR	NO	YES, PROGRAMMABLE AND ADDRESSABLE CONTROL SYSTEM IF LPD IS GREATER THAN 0.5 W/SF	YES	DIM TO 50% WHEN ZONE IS UNOCCUPIED
EXTERIOR LIGHTING	N/A	YES, ANY FIXTURE >30W	BUILDING TIMECLOCK, PHOTOCELL	YES, WHEN SUFFICIENT DAYLIGHT IS SENSED	YES, PROGRAMMABLE AND ADDRESSABLE CONTROL SYSTEM	YES	PROVIDE OCCUPANCY SENSOR FOR ALL FIXTURES MOUNTED LESS THAN 24'-0" ABOVE GRADE, DIM TO 50% WHEN ZONE IS UNOCCUPIED

LIGHTING CONTROL SEQUENCE OF OPERATIONS NOTES:

1. INDOOR LIGHTING CONTROLS SHALL COMPLY WITH CALIFORNIA ENERGY CODE- TITLE 24 PART 6, SECTION 130.1.
2. OUTDOOR LIGHTING CONTROLS SHALL COMPLY WITH CALIFORNIA ENERGY CODE: TITLE 24 PART 6, SECTION 130.2.
3. CONTRACTOR SHALL COORDINATE, VERIFY, AND CONFIRM WITH LIGHTING CONTROLS VENDOR FOR ALL NECESSARY LIGHTING CONTROL DEVICES AND APPURTENANCES FOR THE LIGHTING CONTROLS OR LIGHTING CONTROLS SYSTEM TO FULLY FUNCTION.
4. CONTRACTOR SHALL COORDINATE, VERIFY, AND CONFIRM WITH ARCHITECT, DISTRICT REPRESENTATIVE, AND ALL PARTIES INVOLVED FOR SPECIFIC LIGHTING CONTROL REQUIREMENTS DURING AND AFTER HOURS OF OPERATIONS.

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REGISTERED PROFESSIONAL ENGINEER
RAMI S. ZEID
No. E 16762
EXP. 9-30-26
ELECTRICAL
STATE OF CALIFORNIA

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KERN HIGH SCHOOL DISTRICT
5801 SUNDALE AVE.
BAKERSFIELD, CA 93309

CENTRAL VALLEY
CONTINUATION HIGH SCHOOL CAMPUS
526 MANNEL AVENUE
SHAFTER, CA 93263

DRAWING SUBMITTAL SCHEDULE	
100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO: 22434-E-02

LIGHTING FIXTURE SCHEDULE & NOTES

E-602

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Branch Panel: LEV1

Location: ELECTRICAL ROOM 132
Supply From: TLEV1
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 250 A
MCB Rating: 250 A

CKT	Load Name	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Name	CKT
1	EV CHARGER PORT A	40 A	2	3,350			0			2	40 A	EV CAPABLE	2
3	--	--	--		3,350			0		--	--	--	4
5	EV CHARGER PORT B	40 A	2			3,350			0	2	40 A	EV CAPABLE	6
7	--	--	--	3,350			0			--	--	--	8
9	EV CAPABLE	40 A	2		0			--		1	--	SPACE	10
11	--	--	--			0			--	1	--	SPACE	12
13	EV CAPABLE	40 A	2	0			--			1	--	SPACE	14
15	--	--	--		0			--		1	--	SPACE	16
17	EV CAPABLE	40 A	2			0			--	1	--	SPACE	18
19	--	--	--	0			--			1	--	SPACE	20
21	EV CAPABLE	40 A	2		0			--		1	--	SPACE	22
23	--	--	--			0			--	1	--	SPACE	24
25	SPACE	--	1	--			--			1	--	SPACE	26
27	SPACE	--	1		--			--		1	--	SPACE	28
29	SPACE	--	1			--			--	1	--	SPACE	30
		Total Load:		6,700 VA			3,350 VA						
		Total Amps:		56 A			28 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Continuous	13400 VA	125.00%	16750 VA		
				Total Conn. Load:	13,400 VA
				Total Est. Demand:	16,750 VA
				Total Conn. Current:	37 A
				Total Est. Demand Current:	46 A

Notes:
[1] MULTIPLE CIRCUITS SHARING THE SAME CONDUIT AND NEUTRAL SHALL HAVE HANDLE TIES AT BREAKERS AND WIRE IN PANLE TIES PER CEC 210.4.

Branch Panel: HM1

Location: ELECTRICAL ROOM 132
Supply From: MAIN SWITCHBAORD
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 65,000
Mains Type: MLO
Mains Rating: 400 A

CKT	Load Name	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Name	CKT
1	PHP-15 - ROOFTOP - BLDG 100	25 A	3	4,462			4,037			3	20 A	PHP-8 - ROOFTOP - BLDG 100	2
3	--	--	--		4,462			4,037		--	--	--	4
5	--	--	--			4,462			4,037	--	--	--	6
7	PHP-1 - ROOFTOP - BLDG 100	25 A	3	4,462			4,037			3	20 A	PHP-7 - ROOFTOP - BLDG 100	8
9	--	--	--		4,462			4,037		--	--	--	10
11	--	--	--			4,462			4,037	--	--	--	12
13	PHP-2 - ROOFTOP - BLDG 100	25 A	3	4,462			4,037			3	20 A	PHP-9 - ROOFTOP - BLDG 100	14
15	--	--	--		4,462			4,037		--	--	--	16
17	--	--	--			4,462			4,037	--	--	--	18
19	PHP-3 - ROOFTOP - BLDG 100	25 A	3	4,462			4,000			3	30 A	EWH - 2, CUSTODIAL RM# 130	20
21	--	--	--		4,462			4,000		--	--	--	22
23	--	--	--			4,462			4,000	--	--	--	24
25	PHP-4 - ROOFTOP - BLDG 100	25 A	3	4,462			0			1	20 A	SPARE	26
27	--	--	--		4,462			0		1	20 A	SPARE	28
29	--	--	--			4,462			0	1	20 A	SPARE	30
31	PHP-5 - ROOFTOP - BLDG 100	20 A	3	4,037			0			1	20 A	SPARE	32
33	--	--	--		4,037			0		1	30 A	SPARE	34
35	--	--	--			4,037			0	1	30 A	SPARE	36
37	PHP-6 - ROOFTOP - BLDG 100	35 A	3	7,224			0			1	30 A	SPARE	38
39	--	--	--		7,224			0		1	30 A	SPARE	40
41	--	--	--			7,224			0	1	60 A	SPARE	42
		Total Load:		49,679 VA			49,679 VA						
		Total Amps:		179 A			179 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Continuous	12000 VA	125.00%	15000 VA		
Motor	137036 VA	103.95%	142454 VA		
				Total Conn. Load:	149,036 VA
				Total Est. Demand:	157,454 VA
				Total Conn. Current:	179 A
				Total Est. Demand Current:	189 A

Notes:
[1] MULTIPLE CIRCUITS SHARING THE SAME CONDUIT AND NEUTRAL SHALL HAVE HANDLE TIES AT BREAKERS AND WIRE IN PANLE TIES PER CEC 210.4.

Branch Panel: LP1

Location: ELECTRICAL ROOM 132
Supply From: TLP1
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 400 A
MCB Rating: 400 A

CKT	Load Name	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Name	CKT
1	REC - COMPUTER LAB RM# 124	20 A	1	1,620			180			1	20 A	REC - TV - ART CLASSROOM RM# 120	2
3	REC - CLASSROOM RM# 125	20 A	1		1,800			180		1	20 A	REC - TV - SCI CLASSROOM RM# 121	4
5	REC - STORAGE RM# 122, 123	20 A	1			360			180	1	20 A	REC - TV - COMPUTER LAB RM# 124	6
7	REC - SCIENCE CLASSROOM RM# 121	20 A	1	900			180			1	20 A	REC - TV - CLASSROOM RM# 125	8
9	REC - SCIENCE CLASSROOM RM# 121	20 A	1		1,440			180		1	20 A	REC - TV - PAXTON LAB RM# 119	10
11	REC - ART CLASSROOM RM# 120	20 A	1			1,260			1,000	1	20 A	HAND DRYER - STAFF RR RM# 117	12
13	REC - PAXTON LAB RM# 119	20 A	1	1,440			1,000			1	20 A	HAND DRYER - HEALTH OFFICE RR RM# 127	14
15	REC - CORRIDOR RM# 100A , 100B, 100C	20 A	1		1,080			0		1	20 A	SPARE	16
17	REC - RECORDS ROOM RM# 116	20 A	1			720			180	1	20 A	ACCESS DOORS - LOBBY RM# 100	18
19	REC - SPECIAL ED OFFICE RM# 112	20 A	1	900			600			2	30 A	REC - IDF RACK - MDF RM# 131	20
21	REC - COUNSELOR'S OFFICE RM# 111	20 A	1		1,440			600		--	--	--	22
23	REC - HEALTH OFFICE RM# 118	20 A	1			900			360	1	20 A	REC - IDF RACK - MDF RM# 131	24
25	REC - HEALTH OFFICE & RR RM# 118, 127, 115	20 A	1	1,080			180			1	20 A	SCHOOL SIGNAGE	26
27	REC - LACTATION RM# 113	20 A	1		540			360		1	20 A	REC - STAFF LOUNGE RM# 112	28
29	REC - LOBBY RM# 100	20 A	1			1,080			180	1	20 A	REC - REFRIGERATOR RM# 112	30
31	REC - LOBBY RM# 100	20 A	1	1,080			180			1	20 A	REC - STAFF LOUNGE COPY RM# 112	32
33	REC - SITE ADMIN OFFICE RM# 109	20 A	1		720			360		1	20 A	REC - STAFF LOUNGE RM# 112	34
35	REC - SITE ADMIN OFFICE RM# 109	20 A	1			720			180	1	20 A	REC - STAFF LOUNGE RM# 112	36
37	REC - SOCIAL WORKER OFFICE RM# 101	20 A	1	1,080			1,080			1	20 A	REC - LAB RM# 119 FLOOR BOX	38
39	REC - INT. SPECIALIST OFFICE RM# 102	20 A	1		1,080			1,080		1	20 A	REC - MDF RM# 131	40
41	REC - SUB. ABUSE SPECIALIST OFFICE RM#...	20 A	1			1,080			180	1	20 A	REC - BMS/ EMS CONTROLS RM# 131	42
43	REC - OPEN OFFICE RM# 104	20 A	1	1,080			360			1	20 A	REC - MDF & ELECT ROOM RM# 131, 132	44
45	REC - COMMUNITY SPECIALIST OFFICE RM#...	20 A	1		1,080			180		1	20 A	REC - UNDER SINK GARBAGE DISPOSER...	46
47	REC - CUSTODIAL & STAFF RR RM# 130, 108	20 A	1			360			180	1	20 A	REC - UNDER SINK GARBAGE DISPOSER...	48
49	REC - PARENT CENTER RM# 106	20 A	1	720			0			1	20 A	SPARE	50
51	REC - PARENT CENTER RM# 106	20 A	1		900			180		1	20 A	[2] FIRE RISER FLOW SWITCH, EXTERIOR...	52
53	REC - CAMPUS INTV. CENTER RM# 107	20 A	1			1,080			180	1	20 A	[2] FIRE ALARM CNTRL. PANEL - LOBBY RM#...	54
55	PANEL "LP1A"	200 A	3	3,803			--			1	--	NOT USED	56
57	--	--	--		3,625			--		1	--	NOT USED	58
59	--	--	--			4,493			--	1	--	NOT USED	60
		Total Load:		17,375 VA			16,776 VA						
		Total Amps:		148 A			143 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	8348 VA	111.96%	9347 VA		
Power	2242 VA	100.00%	2242 VA		
Receptacle	38361 VA	63.03%	24181 VA		
				Total Conn. Load:	48,648 VA
				Total Est. Demand:	35,466 VA
				Total Conn. Current:	135 A
				Total Est. Demand Current:	98 A

Notes:
[1] MULTIPLE CIRCUITS SHARING THE SAME CONDUIT AND NEUTRAL SHALL HAVE HANDLE TIES AT BREAKERS AND WIRE IN PANLE TIES PER CEC 210.4. [2] CONTRACTOR SHALL PAINT THE BREAKER RED AND PROVIDE A LOCK-OUT DEVICE.

Branch Panel: HL1

Location: ELECTRICAL ROOM 132
Supply From: MAIN SWITCHBAORD
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 65,000
Mains Type: MLO
Mains Rating: 100 A

CKT	Load Name	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Name	CKT
1	LTG - MDF 131	20 A	1	15			204			1	20 A	LTG - SITE AND SAFE DISPERSAL AREA	2
3	LTG - CUSTODIAL 130	20 A	1		26			510		1	20 A	LTG - SITE SOUTH PARKING AREA	4
5	LTG - CORRIDOR	20 A	1			48			149	1	20 A	LTG - EXTERIOR	6
7	LTG - STAFF LOUNGE AND LACTATION RM	20 A	1	120			192			1	20 A	LTG - SITE AREA BEWTEEN BLDG 100 & 200	8
9	LTG - RESTROOMS	20 A	1		183			342		1	20 A	LTG - LOBBY	10
11	SPARE	20 A	1			0			192	1	20 A	LTG - PARENT CENTER / CONFERENCE	12
13	LTG - CLASSROOMS AND LABS	20 A	1	1,240			0			1	20 A	SPARE	14
15	LTG - STORAGE	20 A	1		155			384		1	20 A	LTG - OFFICES	16
17	LTG - CLASSROOMS AND LABS	20 A	1			868			672	1	20 A	LTG - OFFICES	18
19	LIGHTING INVERTER "INV1" RM 132	40 A	1	807			0			1	20 A	SPARE	20
21	SPARE	20 A	1		0			0		1	20 A	SPARE	22
23	SPARE	20 A	1			0			0	1	20 A	SPARE	24
25	SPARE	20 A	1	0			0			1	20 A	SPARE	26
27	SPARE	20 A	1		0			0		1	20 A	SPARE	28
29	SPARE	20 A	1			0			0	1	20 A	SPARE	30
		Total Load:		2,569 VA			1,600 VA						
		Total Amps:		9 A			6 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	6097 VA	125.00%	7622 VA		
Other	0 VA	0.00%	0 VA		
				Total Conn. Load:	6,097 VA
				Total Est. Demand:	7,622 VA
				Total Conn. Current:	7 A
				Total Est. Demand Current:	9 A

Notes:
[1] MULTIPLE CIRCUITS SHARING THE SAME CONDUIT AND NEUTRAL SHALL HAVE HANDLE TIES AT BREAKERS AND WIRE IN PANLE TIES PER CEC 210.4.

PANEL LEV1	PANEL HM1
PANEL LP1	PANEL HL1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125726 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 04/28/2026

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REGISTERED PROFESSIONAL ENGINEER
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EXP. 9-30-26
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STATE OF CALIFORNIA

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CENTRAL VALLEY CONTINUATION HIGH SCHOOL CAMPUS
526 MANNEL AVENUE
SHAFTER, CA 93263

DRAWING SUBMITTAL SCHEDULE

100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO:22434-E-02

PANEL SCHEDULES

E-603

4/6/2026 1:43:32 PM Autodesk Docs://KVSD - Central Valley Continuation HS/24-2161 Central Valley CVS_MEP_FP_T_R23.rvt

Branch Panel: HL2

Location: ELECTRICAL ROOM 213
Supply From: DIST. PANEL DPH1
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 65,000
Mains Type: MLO
Mains Rating: 100 A

CKT	Load Name	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Name	CKT
1	LTG - KITCHEN	20 A	1	270			288			1	20 A	LTG - SITE DROP OFF AREA	2
3	LTG - KITCHEN	20 A	1		148			510		1	20 A	LTG - SITE NORTH PARKING LOT AREA	4
5	LTG - CAFETERIA	20 A	1			360			0	1	20 A	SPARE	6
7	SPARE	20 A	1	0			0			1	20 A	SPARE	8
9	SPARE	20 A	1		0			0		1	20 A	SPARE	10
11	LTG - CLASSROOMS	20 A	1			434			0	1	20 A	SPARE	12
13	LTG - CLASSROOMS	20 A	1	868			0			1	20 A	SPARE	14
15	LTG - RESTROOMS	20 A	1		406			0		1	20 A	SPARE	16
17	LTG - CUSTODIAL 205	20 A	1			41			0	1	20 A	SPARE	18
19	LTG - EXTERIOR	20 A	1	121			0			1	20 A	SPARE	20
21	LTG - EXTERIOR LUNCH AREA	20 A	1		480			0		1	20 A	SPARE	22
23	SPARE	20 A	1			0			0	1	20 A	SPARE	24
25	SPARE	20 A	1	0			0			1	20 A	SPARE	26
27	SPARE	20 A	1		0			0		1	20 A	SPARE	28
29	LIGHTING INVERTER "INV2", RM# 213	40 A	1			747			0	1	20 A	SPARE	30
		Total Load:		1,535 VA		1,544 VA		1,582 VA					
		Total Amps:		6 A		6 A		6 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	4659 VA	125.00%	5824 VA		
				Total Conn. Load:	4,659 VA
				Total Est. Demand:	5,824 VA
				Total Conn. Current:	6 A
				Total Est. Demand Current:	7 A

Notes:
[1] MULTIPLE CIRCUITS SHARING THE SAME CONDUIT AND NEUTRAL SHALL HAVE HANDLE TIES AT BREAKERS AND WIRE IN PANLE TIES PER CEC 210.4.

Branch Panel: LP1A

Location: ELECTRICAL ROOM 132
Supply From: LP1
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MLO
Mains Rating: 200 A

CKT	Load Name	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Name	CKT
1	REF-1 - ROOFTOP - BLDG 100	20 A	1	342			900			1	20 A	REC - ROOFTOP - BLDG 100	2
3	REF-2 - ROOFTOP - BLDG 100	20 A	1		342			900		1	20 A	REC - ROOFTOP - BLDG 100	4
5	REF-3 - ROOFTOP - BLDG 100	20 A	1			342			0	1	20 A	SPARE	6
7	REF-10 - ROOFTOP - BLDG 100	20 A	1	342			0			1	20 A	SPARE	8
9	REF-11 - ROOFTOP - BLDG 100	20 A	1		342			0		1	20 A	SPARE	10
11	ODU-1 / IDU-1 - ROOFTOP / ELECT RM- BLDG...	25 A	2			2,083			0	1	20 A	SPARE	12
13	--	--	--	2,083			0			1	20 A	SPARE	14
15	ODU-2 / IDU-2 - ROOFTOP / IDF RM- BLDG 100	25 A	2		2,083			0		1	20 A	SPARE	16
17	--	--	--			2,083			0	1	20 A	SPARE	18
19	CIRCULATING PUMP "CP-2" RM# 130	20 A	1	180			0			1	20 A	SPARE	20
21	SPARE	20 A	1		0			0		1	20 A	SPARE	22
23	SPARE	20 A	1			0			0	1	20 A	SPARE	24
25	SPARE	20 A	1	0			0			1	20 A	SPARE	26
27	SPARE	20 A	1		0			0		1	20 A	SPARE	28
29	SPARE	20 A	1			0			0	1	20 A	SPARE	30
31	SPACE	--	1	--			--			1	--	SPACE	32
33	SPACE	--	1		--			--		1	--	SPACE	34
35	SPACE	--	1			--			--	1	--	SPACE	36
37	SPACE	--	1	--			--			1	--	SPACE	38
39	SPACE	--	1		--			--		1	--	SPACE	40
41	SPACE	--	1			--			--	1	--	SPACE	42
		Total Load:		3,803 VA		3,625 VA		4,493 VA					
		Total Amps:		32 A		30 A		38 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	8168 VA	112.22%	9167 VA		
Power	2070 VA	100.00%	2070 VA	**Total Conn. Load:**	11,906 VA
Receptacle	1800 VA	100.00%	1800 VA	**Total Est. Demand:**	12,900 VA
				Total Conn. Current:	33 A
				Total Est. Demand Current:	36 A

Notes:
[1] MULTIPLE CIRCUITS SHARING THE SAME CONDUIT AND NEUTRAL SHALL HAVE HANDLE TIES AT BREAKERS AND WIRE IN PANLE TIES PER CEC 210.4.

Branch Panel: LK1

Location: KITCHEN 203
Supply From: TLK1
Mounting: Surface
Enclosure: NEMA 2

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 250 A
MCB Rating: 250 A

CKT	Load Name	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Name	CKT
1	REC - RETHERMALIZER (FS #18.0)	70 A	2	5,106			720			1	20 A	REC - KICTHEN	2
3	--	--	--		5,106			180		1	20 A	REC - COMPUTER/PRINTER	4
5	AIR CURTAIN (FS #1)	20 A	2			177			180	1	20 A	REC - TV DISPLAY	6
7	--	--	--	177			180			1	20 A	REC - CUSTODIAL RM	8
9	[2] REC - REACH-IN FREEZER (FS #5.0)	20 A	1		180			360		1	20 A	REC - SERVERY	10
11	[2] REC - REACH-IN REFRIGERATOR (FS #6.0)	20 A	1			180			540	1	20 A	REC - CAFETERIA	12
13	[2] REC - HEATED HOLDING CABINET (FS...	20 A	1	180			540			1	20 A	REC - CAFETERIA	14
15	REC - MOBILE FOOD BAR (FS #28.0)	20 A	1		360			360		1	20 A	REC - CAFETERIA	16
17	REC - MOBILE MILK COOLER (FS #29.0)	20 A	1			660			0	1	20 A	SPARE	18
19	REC - POS SYSTEM (FS #31.0)	20 A	1	600			0			1	20 A	SPARE	20
21	GARBAGE DISPOSER (FS #25.0)	20 A	2		1,100			0		1	20 A	SPARE	22
23	--	--	--			1,100			0	1	20 A	SPARE	24
25	GARBAGE DISPOSER PANEL (FS #25.1)	20 A	1	600			0			1	20 A	SPARE	26
27	CAFETERIA ACCESS DOOR OPENER	20 A	1		800			0		1	20 A	SPARE	28
29	CAFETERIA ACCESS DOOR OPENER	20 A	1			800			0	1	20 A	SPARE	30
31	SPARE	20 A	1	0			0			1	20 A	SPARE	32
33	SPARE	20 A	1		0			0		1	20 A	SPARE	34
35	SPARE	20 A	1			0			0	1	20 A	SPARE	36
37	SPARE	20 A	1	0			0			1	20 A	SPARE	38
39	SPARE	20 A	1		0			0		1	20 A	SPARE	40
41	CIRCULATING PUMP "CP-1", CUSTODIAL RM#...	20 A	1			180			0	1	20 A	SPARE	42
		Total Load:		8,068 VA		8,372 VA		3,771 VA					
		Total Amps:		73 A		75 A		31 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	4334 VA	112.69%	4884 VA		
Receptacle	16003 VA	81.24%	13002 VA	**Total Conn. Load:**	20,178 VA
				Total Est. Demand:	17,720 VA
				Total Conn. Current:	56 A
				Total Est. Demand Current:	49 A

Notes:
[1] MULTIPLE CIRCUITS SHARING THE SAME CONDUIT AND NEUTRAL SHALL HAVE HANDLE TIES AT BREAKERS AND WIRE IN PANLE TIES PER CEC 210.4. [2] OUTLETS NOTED GFCI THAT ARE NOT ACCESSIBLE, PROVIDE GFCI PROTECTION AT THE BREAKER.

Branch Panel: HM2

Location: ELECTRICAL ROOM 213
Supply From: DIST. PANEL DPH1
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 65,000
Mains Type: MLO
Mains Rating: 400 A

CKT	Load Name	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Name	CKT
1	PHP-10 - ROOFTOP - BLDG 200	25 A	3	4,462			10,000			3	50 A	EWH - 1, CUSTODIAL RM# 205	2
3	--	--	--		4,462			10,000		--	--	--	4
5	--	--	--			4,462			10,000	--	--	--	6
7	PHP-11 - ROOFTOP - BLDG 200	25 A	3	4,887			0			1	20 A	SPARE	8
9	--	--	--		4,887			0		1	20 A	SPARE	10
11	--	--	--			4,887			0	1	20 A	SPARE	12
13	PHP-12 - ROOFTOP - BLDG 200	25 A	3	4,887			0			1	20 A	SPARE	14
15	--	--	--		4,887			0		1	20 A	SPARE	16
17	--	--	--			4,887			0	1	20 A	SPARE	18
19	PHP-13 - ROOFTOP - BLDG 200	20 A	3	4,037			0			1	20 A	SPARE	20
21	--	--	--		4,037			0		1	20 A	SPARE	22
23	--	--	--			4,037			0	1	20 A	SPARE	24
25	PHP-14 - ROOFTOP - BLDG 200	60 A	3	11,685			0			1	20 A	SPARE	26
27	--	--	--		11,685			0		1	20 A	SPARE	28
29	--	--	--			11,685			0	1	--	SPACE	30
31	SPACE	--	1	--			--			1	--	SPACE	32
33	SPACE	--	1		--			--		1	--	SPACE	34
35	SPACE	--	1			--			--	1	--	SPACE	36
37	SPACE	--	1	--			--			1	--	SPACE	38
39	SPACE	--	1		--			--		1	--	SPACE	40
41	SPACE	--	1			--			--	1	--	SPACE	42
		Total Load:		39,957 VA		39,957 VA		39,957 VA					
		Total Amps:		144 A		144 A		144 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Continuous	30000 VA	125.00%	37500 VA		
Motor	89871 VA	109.75%	98635 VA	**Total Conn. Load:**	119,871 VA
				Total Est. Demand:	136,135 VA
				Total Conn. Current:	144 A
				Total Est. Demand Current:	164 A

Notes:
[1] MULTIPLE CIRCUITS SHARING THE SAME CONDUIT AND NEUTRAL SHALL HAVE HANDLE TIES AT BREAKERS AND WIRE IN PANLE TIES PER CEC 210.4.

PANEL HL2	PANEL LP1A
PANEL LK1	PANEL HM2

IDENTIFICATION STAMP
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CENTRAL VALLEY CONTINUATION HIGH SCHOOL CAMPUS
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SHAFTER, CA 93263

DRAWING SUBMITTAL SCHEDULE	
100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO: 22434-E-02

PANEL SCHEDULES

E-604

4/6/2026 1:43:42 PM Autodesk Docs://KHSD - Central Valley Continuation HS/24-2161 Central Valley CVS_MEP_FP_T_R23.rvt

LTG INVERTER INV1

Location: IDF 131
Supply From: HL1
Mounting: SURFACE
Enclosure: NEAM 1

Volts: 277/277 Single
Phases: 1
Wires: 2

A.I.C. Rating: 65,000
Mains Type: 30A
Mains Rating: 30 A
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Poles	Load
1	EM LTG - CORRIDOR 100A AND 100B	20 A	1	180 VA
2	EM LTG - ELECTRICAL ROOM	20 A	1	52 VA
3	EM LTG - MDF 131	20 A	1	26 VA
4	EM LTG - STAFF LOUNGE 112	20 A	1	72 VA
5	EM LTG - CLASSROOMS AND LABS	20 A	1	229 VA
6	EM LTG - EXTERIOR	20 A	1	80 VA
7	EM LTG - OFFICE	20 A	1	168 VA
8	SPARE	20 A	1	0 VA
9	SPARE	20 A	1	0 VA
10	SPARE	20 A	1	0 VA
11	SPARE	20 A	1	0 VA
12	SPARE	20 A	1	0 VA
			Total Load:	807 VA
			Total Amps:	3 A

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	807 VA	125.00%	1008 VA		
				Total Conn. Load:	807 VA
				Total Est. Demand:	1,008 VA
				Total Conn. Current:	3 A
				Total Est. Demand Current:	4 A

Notes:
[1] MULTIPLE CIRCUITS SHARING THE SAME CONDUIT AND NEUTRAL SHALL HAVE HANDLE TIES AT BREAKERS AND WIRE IN PANLE TIES PER CEC 210.4.

LTG INVERTER INV2

Location: ELECTRICAL ROOM 213
Supply From: HL2
Mounting: FLOOR
Enclosure: NEMA Type 1

Volts: 277/277 Single
Phases: 1
Wires: 2

A.I.C. Rating: 65,000
Mains Type: 30A
Mains Rating: 30 A
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Poles	Load
1	EM LTG - CAFETERIA AND KITCHEN	20 A	1	520 VA
2	EM LTG - CLASSROOMS	20 A	1	93 VA
3	EM LTG - IDF ROOM 212	20 A	1	26 VA
4	EM LTG - ELECTRICAL ROOM 213	20 A	1	52 VA
5	EM LTG - EXTERIOR	20 A	1	56 VA
6	SPARE	20 A	1	0 VA
7	SPARE	20 A	1	0 VA
8	SPARE	20 A	1	0 VA
9	SPARE	20 A	1	0 VA
10	SPARE	20 A	1	0 VA
11	SPARE	20 A	1	0 VA
12	SPARE	20 A	1	0 VA
			Total Load:	0 VA
			Total Amps:	0 A

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	747 VA	125.00%	934 VA		
				Total Conn. Load:	747 VA
				Total Est. Demand:	934 VA
				Total Conn. Current:	3 A
				Total Est. Demand Current:	3 A

Notes:
[1] MULTIPLE CIRCUITS SHARING THE SAME CONDUIT AND NEUTRAL SHALL HAVE HANDLE TIES AT BREAKERS AND WIRE IN PANLE TIES PER CEC 210.4.

Branch Panel: LP2

Location: ELECTRICAL ROOM 213
Supply From: TLP2
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MCB
Mains Rating: 250 A
MCB Rating: 250 A

CKT	Load Name	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Name	CKT
1	IRRIGATION CONTROLLER RM# 212	20 A	1	180			1,000			1	20 A	HAND DRYER - UNISEX RR RM# 204	2
3	REC - RESTRMS RM# 204, 206, 207, 208	20 A	1		720			1,000		1	20 A	HAND DRYER - UNISEX RR RM# 206	4
5	REC - CLASSROOM RM# 209	20 A	1			1,440			1,000	1	20 A	HAND DRYER - GIRLS RR RM# 207	6
7	REC - CLASSROOM RM# 210	20 A	1	1,440			1,000			1	20 A	HAND DRYER - BOYS RR RM# 208	8
9	REC - CLASSROOM RM# 211	20 A	1		1,440			180		1	20 A	REC - TV - CLASSROOM RM# 209	10
11	REC - IDF & ELECT ROOM RM# 212, 213	20 A	1			360			180	1	20 A	REC - TV - CLASSROOM RM#210	12
13	REC - IDF ROOM RM# 212	20 A	1	720			180			1	20 A	REC - TV - CLASSROOM RM# 211	14
15	REC - IDF ROOM RM# 212	20 A	1		720			0		1	20 A	SPARE	16
17	REC - IDF RACK - IDF ROOM RM# 213	30 A	2			600			0	1	20 A	SPARE	18
19	--	--	--	600			0			1	20 A	SPARE	20
21	REC - IDF RACK RM# 212	20 A	1		360			0		1	20 A	SPARE	22
23	REC - BMS/ EMS CONTROLS RM# 212	20 A	1			180			0	1	20 A	SPARE	24
25	REC - EXTERIOR SHADE STRUCTURE	20 A	1	1,080			0			1	20 A	SPARE	26
27	REC - EXTERIOR CAFETERIA / TRASH AREA	20 A	1		540			0		1	20 A	SPARE	28
29	REC - EXTERIOR BETWEEN BDLG	20 A	1			1,080			0	1	20 A	SPARE	30
31	SPARE	20 A	1	0			0			1	20 A	SPARE	32
33	SPARE	20 A	1		0			0		1	20 A	SPARE	34
35	SPARE	20 A	1			0			0	1	20 A	SPARE	36
37	SPARE	20 A	1	0			5,525			3	100 A	PANEL "LP2A"	38
39	[1] FIRE RISER FLOW SWITCH, EXTERIOR...	20 A	1		180			2,743		--	--	--	40
41	[1] FIRE ALARM NAC - IDF ROOM RM# 212	20 A	1			180			2,562	--	--	--	42
			Total Load:		11,634 VA		7,815 VA		7,512 VA				
			Total Amps:		97 A		66 A		63 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	7988 VA	112.50%	8987 VA		
Power	2222 VA	100.00%	2222 VA	**Total Conn. Load:**	26,955 VA
Receptacle	16890 VA	79.60%	13445 VA	**Total Est. Demand:**	24,504 VA
				Total Conn. Current:	75 A
				Total Est. Demand Current:	68 A

Notes:
[1] MULTIPLE CIRCUITS SHARING THE SAME CONDUIT AND NEUTRAL SHALL HAVE HANDLE TIES AT BREAKERS AND WIRE IN PANLE TIES PER CEC 210.4. [2] CONTRACTOR SHALL PAINT THE BREAKER RED AND PROVIDE A LOCK-OUT DEVICE.

Branch Panel: LP2A

Location: ELECTRICAL ROOM 213
Supply From: LP2
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: MLO
Mains Rating: 100 A

CKT	Load Name	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Name	CKT
1	REF-4 - ROOFTOP - BLDG 200	20 A	1	342			900			1	20 A	REC - ROOFTOP - BLDG 200	2
3	REF-5 - ROOFTOP - BLDG 200	20 A	1		342			0		1	20 A	SPARE	4
5	REF-6 - ROOFTOP - BLDG 200	20 A	1			156			0	1	20 A	SPARE	6
7	REF-7 - ROOFTOP - BLDG 200	20 A	1	166			0			1	20 A	SPARE	8
9	REF-8 - ROOFTOP - BLDG 200	20 A	1		342			0		1	20 A	SPARE	10
11	REF-9 - ROOFTOP - BLDG 200	20 A	1			342			0	1	20 A	SPARE	12
13	ODU-3 / IDU-3 - ROOFTOP / IDF RM- BLDG 200	25 A	2	2,083			0			1	20 A	SPARE	14
15	--	--	--		2,083			0		1	20 A	SPARE	16
17	ODU-4 / IDU-4 - ROOFTOP / ELECT RM- BLDG...	25 A	2			2,083			0	1	20 A	SPARE	18
19	--	--	--	2,083			0			1	20 A	SPARE	20
21	SPARE	20 A	1		0			0		1	20 A	SPARE	22
23	SPARE	20 A	1			0			0	1	20 A	SPARE	24
25	SPARE	20 A	1	0			0			1	20 A	SPARE	26
27	SPARE	20 A	1		0			0		1	20 A	SPARE	28
29	SPARE	20 A	1			0			0	1	20 A	SPARE	30
			Total Load:		5,525 VA		2,743 VA		2,562 VA				
			Total Amps:		46 A		23 A		21 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	7988 VA	112.50%	8987 VA		
Power	2050 VA	100.00%	2050 VA	**Total Conn. Load:**	10,830 VA
Receptacle	900 VA	100.00%	900 VA	**Total Est. Demand:**	11,825 VA
				Total Conn. Current:	30 A
				Total Est. Demand Current:	33 A

Notes:
[1] MULTIPLE CIRCUITS SHARING THE SAME CONDUIT AND NEUTRAL SHALL HAVE HANDLE TIES AT BREAKERS AND WIRE IN PANLE TIES PER CEC 210.4.

PANEL INV1	PANEL LP2
PANEL INV2	PANEL LP2A

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APP: 03-125726 INC:
REVIEWED FOR
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DATE: 04/28/2026

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www.lpengineers.com
Job #: 24-2161

REGISTERED PROFESSIONAL ENGINEER
RAMI S. ZEID
No. E 16762
EXP. 9-30-26
ELECTRICAL
STATE OF CALIFORNIA

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KERN HIGH SCHOOL DISTRICT
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BAKERSFIELD, CA 93309

CENTRAL VALLEY
CONTINUATION HIGH SCHOOL CAMPUS
526 MANNEL AVENUE
SHAFTER, CA 93263

DRAWING SUBMITTAL SCHEDULE

100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO: 22434-E-02

PANEL SCHEDULES

E-605

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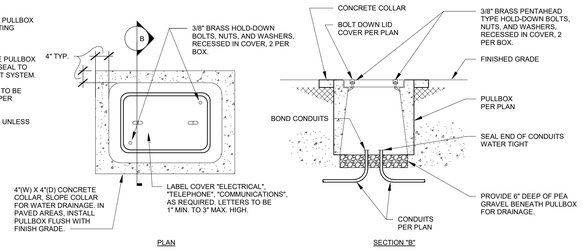
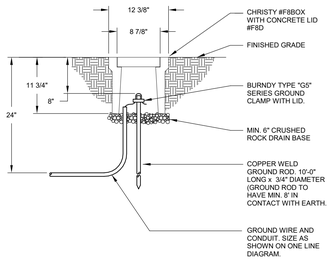
NOTES:
1. ALL SPLICES WITHIN THE CONCRETE PULLBOX ARE TO BE SEALED WITH AN INSULATING AND ENCAPSULATING RESIN PACK, SCOTCHCAST 4 OR EQUAL.
2. ALL CONDUIT WITHIN THE CONCRETE PULLBOX ARE TO BE SEALED WITH RTV DUCT SEAL TO PREVENT WATER ENTERING CONDUIT SYSTEM.
3. ALL CONDUCTORS AND CABLES ARE TO BE GROUPED AND WIRE TIED EVERY 6" PER CONDUIT FILL.
4. PROVIDE TWO 12" EXTENSION RINGS UNLESS NOTED OTHERWISE.

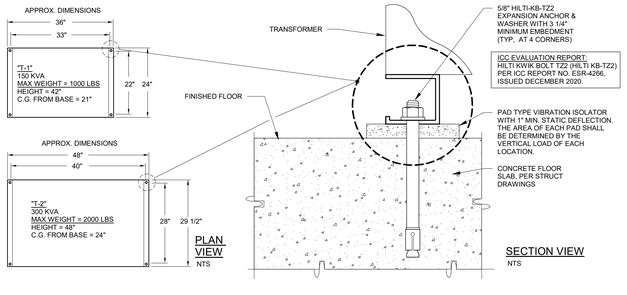


UNDERGROUND CONCRETE PULLBOX DETAIL — NTS — 6

KEY NOTES:
1. SIZE OF CONDUCTOR SHALL COMPLY WITH CEC TABLE 250.94, AND AS INDICATED ON ONE LINE DIAGRAM, WHICHEVER IS LARGER.
2. GROUND RESISTANCE SHALL BE TESTED BY AN INDEPENDENT TESTING COMPANY WITH A MEGGER UNIT OR AN OTHERWISE ACCEPTABLE METHOD BY THE INSPECTOR OF RECORD. IF RESISTANCE TO GROUND IS TESTED TO EXCEED 25 OHMS, INSTALL ADDITIONAL GROUND RODS SEPARATED BY MINIMUM 10' AND RETEST AS REQUIRED.
3. ALL WORK AS SHOWN ON THE GROUNDING DETAIL AND AS STATED HEREIN, WHETHER SHOWN OR NOT ON ELECTRICAL DRAWINGS, SHALL BE DONE BY THE SITE ELECTRICAL CONTRACTOR AND SHALL BE INCLUDED IN THE CONTRACT.

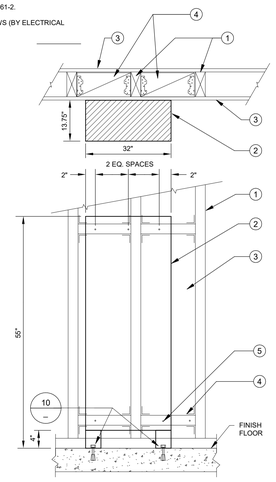


GROUNDING ROD DETAIL — NTS — 7



FLOOR MOUNTED TRANSFORMER DETAILS — NTS — 8

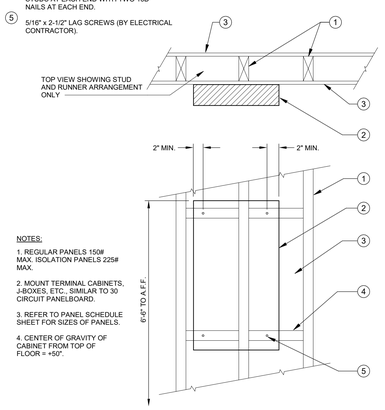
KEY NOTES:
1. WOOD STUD.
2. SURFACE & FLOOR MOUNTED LIGHITNG INVERTER CABINET.
3. SHEET ROCK OR OTHER WALL SURFACE MATERIAL (SEE ARCH. DRAWINGS).
4. REFER TO DETAIL 12/S0.61-2.
5. 5/16" x 2-1/2" LAG SCREWS (BY ELECTRICAL CONTRACTOR).



NOTES:
1. INVERTER PANEL 500# MAX.

ISOLITE INVERTER - MOUNTING DETAIL - WOOD FRAMING — NTS — 9

KEY NOTES:
1. WOOD STUD.
2. SURFACE MOUNTED PANEL CABINET.
3. SHEET ROCK OR OTHER WALL SURFACE MATERIAL (SEE ARCH. DRAWINGS).
4. WOOD STUDS FASTENED TO VERTICAL STUDS AT EACH END WITH TWO 16D NAILS AT EACH END.
5. 5/16" x 2-1/2" LAG SCREWS (BY ELECTRICAL CONTRACTOR).



NOTES:
1. REGULAR PANELS 150# MAX. ISOLATION PANELS 225# MAX.
2. MOUNT TERMINAL CABINETS, J-BOXES, ETC., SIMILAR TO 30 CIRCUIT PANELBOARD.
3. REFER TO PANEL SCHEDULE SHEET FOR SIZES OF PANELS.
4. CENTER OF GRAVITY OF CABINET FROM TOP OF FLOOR = +50".

SURFACE PANELBOARD/CABINET WOOD FRAMING MOUNTING DETAIL — NTS — 10

UG-1: Transformers
Greenbook

Concrete Pad for Three-Phase, Loop-Style, Pad-Mounted Transformers

Concrete Pad Details for Style IID, IIE, and IIG Transformers

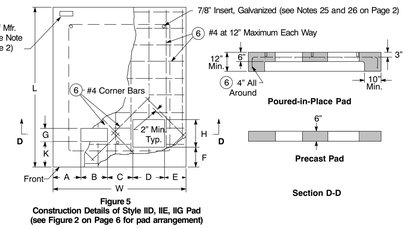


Figure 5
Construction Details of Style IID, IIE, IIG Pad
(see Figure 2 on Page 6 for pad arrangement)

Table 3 Dimensions and Codes for Style IID, IIE, and IIG Transformer Pads [1]

Transformer			Pad Dimensions (inches)										
Style	kVA Size	Approximate Maximum Weight (lbs)	A	B	C	D	E	F	G	H	K	L	W	Code
IID and IIE	75	4,600	17	16	15	19	13	10	6	17	14	61	80	040291
	(112.5) [2]	4,800												
	150	5,000												
	(225) [2]	5,500												
IIE	300	5,800	22	16	15	20	17	20	6	19	25	106	90	040292
	(500) [2]	6,100												
	750	9,000												
	1,000	11,000												
	1,500	13,000												
IIE	2,500	16,000	22	16	15	20	17	20	6	19	25	106	90	040292
IIG	2955/3325	22,000												

1 See Document 066211 for approved suppliers.
2 ( ) = Indicates a kVA size that is no longer purchased.

Revision Notes
Revision 13 has the following changes:
1. Add Note 10 on Page 1.

045292 Page 8 of 8 Rev. #13: 12-01-19

PG&E TRANSFORMER CONCRETE PAD DETAIL — NTS — 4

UG-1: General
Greenbook

Clearances and Location Requirements for Enclosures, Pads, and Underground Equipment

13. Preferred Barrier Post Arrangement for Transformers (continued)

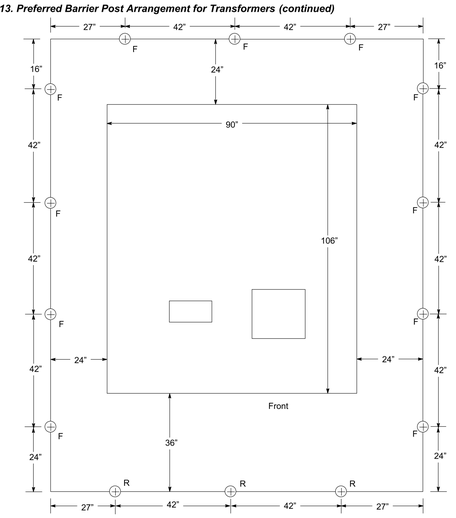
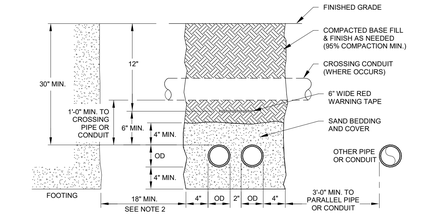


Figure 14
Style IIE-LB Pad
90" x 106"
(Document 045292)

F = Fixed
R = Removable

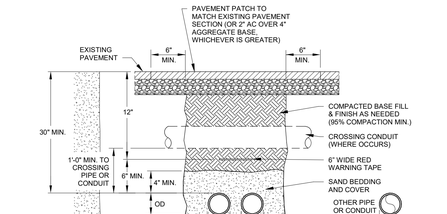
Rev. #22: 03-25-22 **051122 Page 15 of 28**

PG&E XFMR PAD CLEARANCE DETAIL — NTS — 5



NOTES:
1. TRENCHING LOCATED IN PAVED AREAS - ALL EARTHWORK AND REPAIR SHALL BE IN ACCORDANCE WITH AGENCY THAT HAS JURISDICTION.
2. ALL PIPES AND TRENCHES MUST ALSO CONFORM WITH CBC 1809A.14

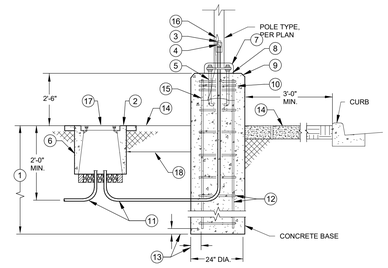
TYPICAL TRENCH DETAIL — NTS — 1



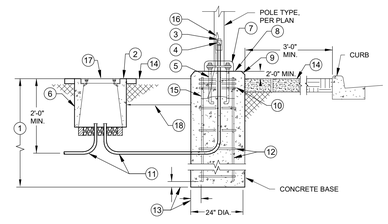
NOTES:
1. TRENCHING LOCATED IN PAVED AREAS - ALL EARTHWORK AND REPAIR SHALL BE IN ACCORDANCE WITH AGENCY THAT HAS JURISDICTION.
2. ALL PIPES AND TRENCHES MUST ALSO CONFORM WITH CBC 1809A.14

TYPICAL TRENCH DETAIL AT PAVEMENT — NTS — 2

KEYNOTES
1. PROVIDE 48" MINIMUM FOR LIGHT POLE UP TO 25 FEET, AND 60" MINIMUM FOR LIGHT POLE UP TO 35 FEET. COORDINATE CONCRETE BASE SIZE WITH STRUCTURAL ENGINEER.
2. UNDERGROUND PULL BOX REQUIRED ADJACENT TO POLE BASE. SET TOP OF PULLBOX FLUSH WITH FINISHED GRADE.
3. GASKETED HANDHOLE COVER WITH TWO STAINLESS STEEL TAMPER PROOF SCREWS.
4. CONNECT GROUND WIRE TO GROUNDING LUG OF POLE AT HANDHOLE.
5. FOUR ANCHOR BOLTS, SIZE PER MANUFACTURER'S STANDARDS.
6. PROVIDE PULL BOX ONLY WHERE SHOWN ON PLAN.
7. BASECOVER, SECURE TO POLE AND/OR BASE. BASECOVER FOR S1, S2, S3 STANDARD FBCSTL2PC. BASECOVER PLATE FOR S4 STANDARD.
8. PROVIDE 1-1/2" MINIMUM GROUT AROUND THE BASE AFTER PLUMB. SLOPE TO GRADE FOR DRAINAGE.
9. PROVIDE CONCRETE BASE WITH 1/2" CHAMFER. CONCRETE FILL AND SACK FINISH ALL CONCRETE SURFACE IMPERFECTIONS, CAVITIES AND VOIDS ABOVE FINISHED GRADE.
10. PROVIDE (3) #3 REBAR TIES, REINFORCE STEEL HOOPS 2" ON CENTER WITHIN TOP 5" AREA.
11. CONDUIT PER PLAN.
12. PROVIDE (6) #4 REINFORCE STEEL RODS AND #3 REINFORCED STEEL HOOPS 9" ON CENTER. SIZE PER MANUFACTURER'S STANDARDS.
13. PROVIDE 3" CLEAR IF CAST AGAINST EARTH, TYPICAL.
14. FINISHED GRADE OF PAVING PER ARCHITECTURAL DRAWINGS.
15. UL LISTED GROUND CLAMP SUITABLE FOR CONCRETE ENCASEMENT OR DIRECT BURIAL. INSTALL CLAMPS ON ALL ANCHOR BOLTS, TYPICAL.
16. SPLICE GROUND WIRE AND EXTEND TO GROUND CLAMP AT ANCHOR BOLT.
17. PROVIDE TRAFFIC BOLT-DOWN COVER.
18. LOCATE PULL BOX ADJACENT TO THE POLE CONCRETE BASE.



RAISED CONCRETE POLE BASE
APPLICABLE AT PARKING LOT



APPLICABLE AT PEDESTRIAN WALKWAY

LIGHT FIXTURE POLE BASE MOUNTING — NTS — 3

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125726 INC:
REVIEWED FOR
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DATE: 04/28/2026

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CENTRAL VALLEY CONTINUATION HIGH SCHOOL CAMPUS
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DRAWING SUBMITTAL SCHEDULE	
100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO:22434-E-02

ELECTRICAL DETAILS - SITE

E-801

Autodesk Docs://KUSD - Central Valley Continuation HS\24-2161 Central Valley CHS_MEP_R9_1_R23.rvt
4/6/2026 1:43:35 PM

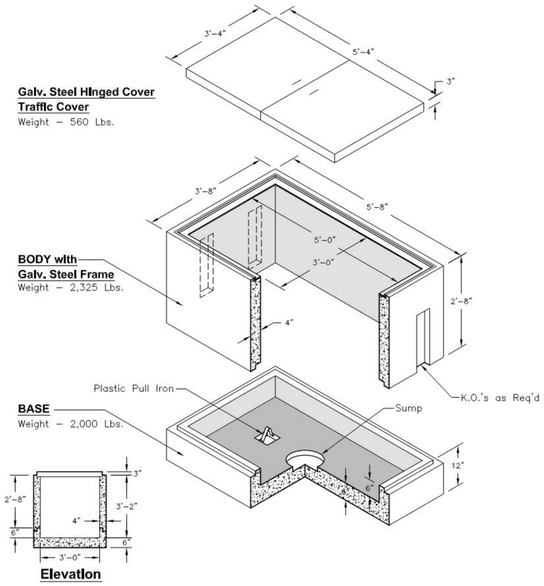
Oldcastle Precast

Power & Energy

File: **264-UEP3660PB**

3'-0"x5'-0"x3'-2" Pull Box

Model: **3x5 EPB**



SPECIFICATIONS:

1. Concrete: Design Strength of 5500 PSI at 28 Days.
2. Steel Reinforcement: ASTM A-615 Grade 60.
3. Loading: Designed for HS-20 Loading.

GENERAL NOTES:

1. Thin Wall Knock Outs Available In Different Sizes Upon Request.
2. All Weights Calculated with Solid Walls.
3. Different Body Height Is Available Upon Request.

Texas Region

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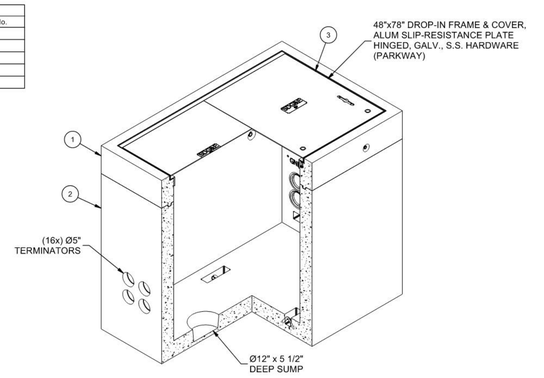
HANDHOLE - OLDCASTLE DETAIL | NTS | 2

DESIGN NOTES
■ DESIGNED IN ACCORDANCE WITH C-857(AASHTO H-20-44) TRAFFIC BRIDGE LOADING USING 6,000 PSI COMPRESSIVE STRENGTH CONCRETE AND 60,000 PSI YIELD STRENGTH ASTM A-706 STEEL REINFORCEMENT PER CALCS. #34563.
■ COVER DESIGN FOR PEDESTRIAN LOADING
■ MINIMUM EXCAVATION SIZE: 6'-0" X 8'-6" X DEPTH REQ'D.
■ VAULT TO BE PLACED ON A MIN. 6" BASE OF CRUSHER RUN FOR EASE OF INSTALLATION AND EVEN LOAD DISTRIBUTION.
■ EXTERIOR SURFACES OF STRUCTURE(S) SHALL BE COATED WITH IMRAE COATMASTERS 7007.
■ STRUCTURES TO BE STENCILED, "JENSEN PRECAST", WITH "TIME" AND "DATE OF POUR", AND SDGE STOCK NUMBER ON EXTERIOR AND INTERIOR WALLS.
■ FOR COMPLETE DESIGN AND PRODUCT INFORMATION CONTACT JENSEN PRECAST.

CROSS REFERENCE		
JENSEN PART No.	SHORT DESCRIPTION	SDGE STOCK No.
100012989	3315 60" base	S334536
100012174	3315 12" Top section with frame	S361354
200044340	3315 Intermediate 12"	S336246
100010460	3315 Complete Parkway Kit	S400306
100036558	3315 Frame with hinged aluminum covers	S636040

BILL OF MATERIALS

ITEM	UNIT QTY	QTY	PART NUMBER	DESCRIPTION	MASS (lb)
1	1	1	100012174	Riser 4878x12 Rect. Riser Cast-In Frame SDGE 3315	1722
2	1	1	100012989	Vault 4878x60 Rect. Bottom Section Terminators Sump SDGE 3315	11546
3	1	1	100036558	COVER 4878 BI-METAL 4878-P SDGE SP S636040 MADRUGA	285
4	5.250 gal	5.250 gal	100038043	COATING WATERPROOFING CoatMasters CM7007 IMRAE	
5	1.000 ul	1.000 ul	100005749	SEALANT JOINT BUTYL RUBBER ASTM C-990 AND M198 CS-102 1IN EQUIV X14.5FT PER BOX 118FT	



ISO VIEW

LIFTING NOTES
■ FIELD INSTALLATION: PLANT DEMOLDING: MINIMUM HANDLING CONCRETE STRENGTH F'c = 5500 PSI RIGGING EQUALIZER REQUIRED TO EQUALIZE LOAD TO 4 LIFTING POINTS WITH A SLING ANGLE BETWEEN 60° AND 90°

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
B-1	INITIAL RELEASE	7/22/2021	

BURY DEPTH:	0.0' - 0.0' to Top		
WATER LEVEL:	3.0'	WEIGHT:	13553.2 Lbs
DESIGN SPEC:	ASTM C857,ACI 318	LOADING SPEC:	A-16 (AASHTO HS20-44)
AGENCY:	SDGE	AGENCY SPEC:	3315

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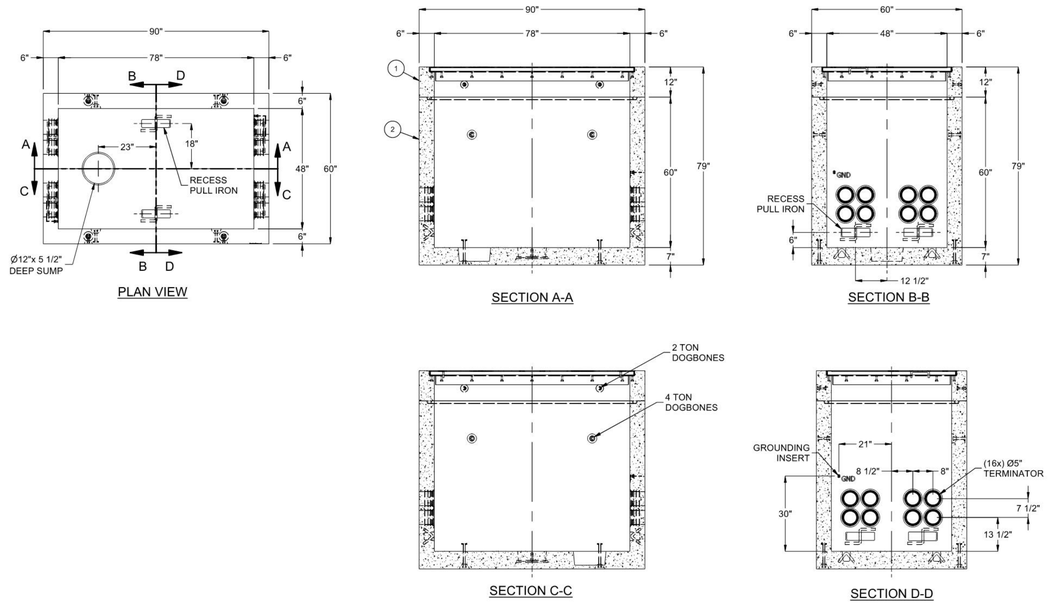
DESCRIPTION:	Pull Box 4878 Layout Assembly SDGE 3315 Ext. Coating - Waterproof IMRAE CM7007		REV: B-2
	LAYOUT REVIEW		SHEET: 1 OF 2
PART NUMBER:	100010460	DRAWN BY:	J. Prado
CREATED:	9/28/2020	MODIFIED:	7/22/2021

100010460.sdw



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DESCRIPTION:	Pull Box 4878 Layout Assembly SDGE 3315 Ext. Coating - Waterproof IMRAE CM7007		REV: B-2
	LAYOUT DRAWING		SHEET: 2 OF 2
PART NUMBER:	100010460	DRAWN BY:	J. Prado
CREATED:	9/28/2020	MODIFIED:	7/22/2021

100010460.sdw

HANDHOLE - JENSEN DETAIL | NTS | 1

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No. E 16762
EXP. 9-30-26
ELECTRICAL
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CENTRAL VALLEY
CONTINUATION HIGH SCHOOL CAMPUS
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DRAWING SUBMITTAL SCHEDULE	
100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO:22434-E-02

ELECTRICAL DETAILS - SITE

E-802

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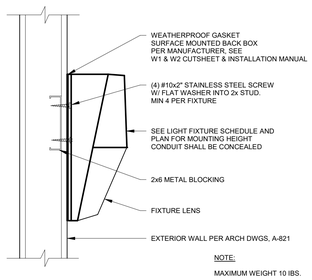
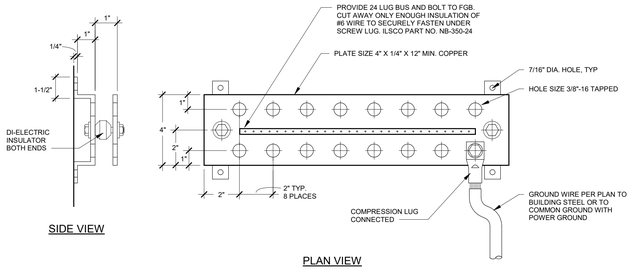


EXTERIOR WALL FIXTURE MOUNTING DETAIL | NTS | 8



GROUND BUS BAR DETAIL | NTS | 4

GENERAL NOTES:

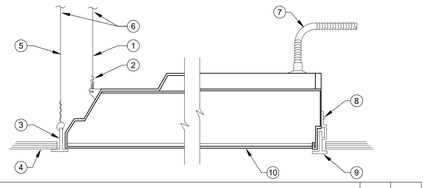
A. INSTALL LIGHT SUPPORTS IN ACCORDANCE WITH DSA REQUIREMENTS, AND INTERPRETATIONS OF REGULATIONS IR 25-2.

B. SUPPORT T-BAR CEILING LAY-IN LIGHT FIXTURES IN ACCORDANCE WITH THE FOLLOWING TABLE:

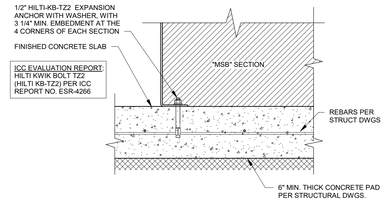
TYPE OF CEILING	LIGHT FIXTURE SIZE	FIXTURE WEIGHT	WIRE HANGERS
HEAVY DUTY	2' X 4' OR LESS	< 56 LBS.	2 #12 GA. (SLACK)
HEAVY DUTY	4' X 4'	< 56 LBS.	4#12 GA. (SLACK)
INTERMEDIATE	ALL	ALL	4#12 GA. (TAUT)
ALL	ALL	> 56 LBS.	4 #12 GA. (TAUT)

KEYED NOTES:

1. LIGHT FIXTURE SUPPORT WIRE, #12 GALVANIZED IRON STEELWIRE. SECURE TO STRUCTURAL MEMBERS SIMILAR TO CEILING SUPPORT WIRES.
2. TYPICAL - 4 TIGHT TURNS MINIMUM, WITHIN 1-1/2".
3. CROSS 'T' BAR.
4. TYPICAL - ACOUSTICAL TILE.
5. CEILING SUPPORT WIRES PER ARCHITECTURAL DRAWINGS.
6. SEE STRUCTURAL DRAWINGS FOR UPPER ATTACHEMENT TO BUILDING STRUCTURE.
7. TYPICAL FLEX CONDUIT W/ ALL NECESSARY FITTINGS TO JUNCTION BOX. PROVIDE #12 GROUND WIRE AND BOND TO LIGHT FIXTURE.
8. 'T' BAR CLIP AT LIGHT FIXTURE (OR ROWS) SHALL HAVE 2 CLIPS AT EACH END. SEE SPECS.
9. MAIN 'T' RUNNER.
10. TYPICAL RECESSED FIXTURE. SEE SCHEDULES.



RECESSED TROFFER IN T-BAR CLG MOUNTING | NTS | 1

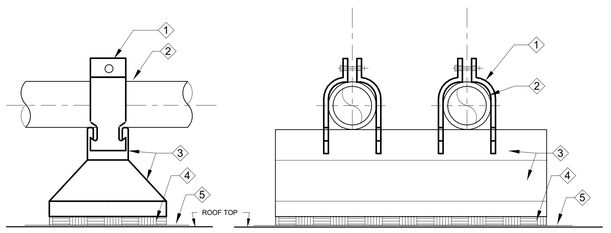


INDOOR SWITCHBOARD MOUNTING DETAIL | NTS | 9

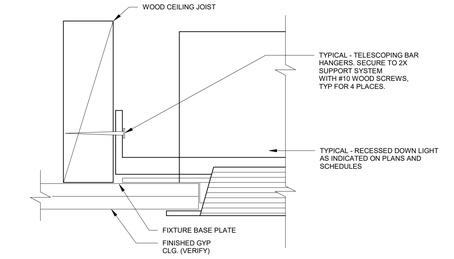
KEY NOTES:

1. HOT-DIPPED GALVANIZED UNISTRUT CONDUIT CLAMP. SIZE AS REQUIRED.
2. CONDUIT AS NOTED ON DRAWINGS.
3. ROOFTOP SUPPORT WITH HOT-DIPPED GALVANIZED CHANNEL MANUFACTURER PER SPECS.
4. SECURE TO ROOF WITH A FULL BED OF NON-HARDENING ADHESIVE TYPE MASTIC. ADHESIVE TO BE COMPATIBLE WITH PVC ROOF MEMBRANE. VERIFY SPECIFICATION FOR COMPATIBILITY PRIOR TO INSTALLATION.
5. PROVIDE SACRIFICIAL LAYER OF PVC ROOF MEMBRANE, UNDER SUPPORTS.

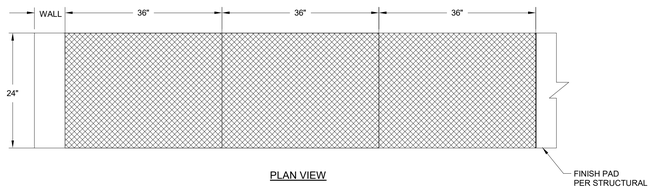
NOTE:
INSTALL SUPPORT BLOCK 8'-0" O.C. MAX, WITHIN 36" OF A BOX CONNECTION, AND AT EACH CHANGE OF DIRECTION.

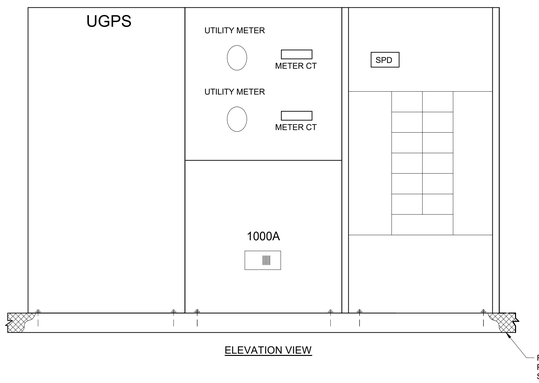


ROOF CONDUIT SUPPORT DETAIL | NTS | 5



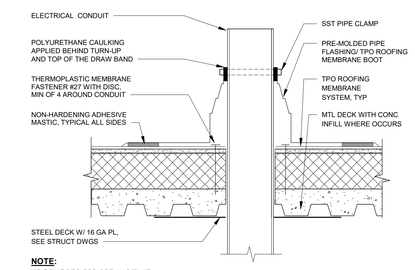
RECESSED LIGHT FIXTURE WOOD FRAMING | NTS | 2





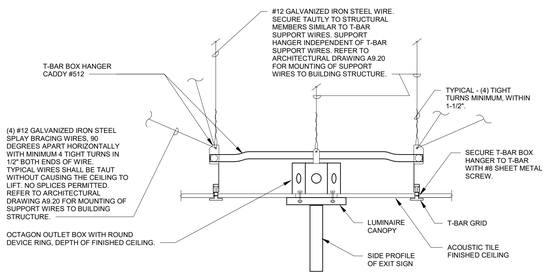
MAIN SWITCHBOARD "MSB" ELEVATION DETAIL | NTS | 10

NOTES:
1. PIPE BOOT AT CONC FILLED STL DECK SHOWN, SIMILAR AT METAL DECK WITHOUT CONCRETE
2. FOR PIPES/CONDUIT 8" OR SMALLER

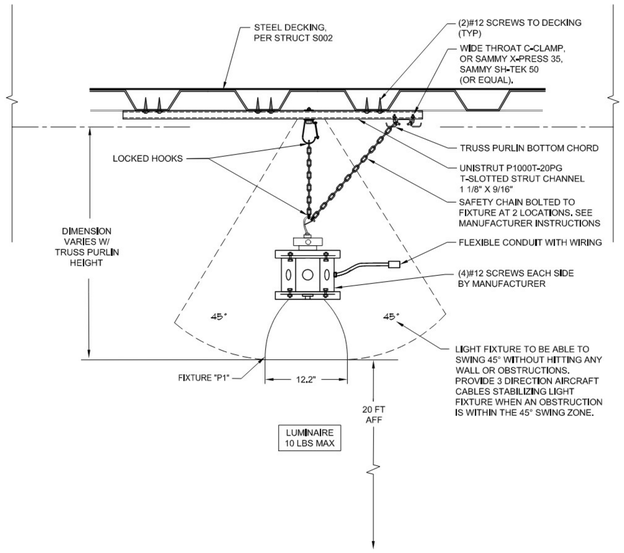


NOTE:
NO REINF REQ FOR OPENING THAT DO NOT CUT WEBS, SEE STRUCT DWGS 3/S-571 FOR ADDITIONAL INFO

ROOF CONDUIT PENETRATION DETAIL | NTS | 6



EXIT SIGN MOUNTING DETAIL T-BAR | NTS | 7



CROSS SECTION

PENDANT LUMINAIRE MOUNTING ON METAL DECKING | NTS | 3

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DWG V3	04/28/2026

PROJECT NO: 22434-E-02

ELECTRICAL
DETAILS - POWER
& LIGHTING

E-803

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FIRE SPRINKLER MATERIAL SCHEDULE

SPEC SECTION	DESCRIPTION	MODEL NO.	CSFM LISTING	MFR.
210500				
2.02	BURIED PIPE			
	IN-BUILDING RISER	SERIES IBR	N/A	AMES
2.03	ABOVE GROUND PIPING			
	PIPE			
	2-1/2"-6" SCH.. 10	N/A	N/A	WHEATLAND
	1" - 2" SCH.. 40	N/A	N/A	WHEATLAND
	FITTINGS			
	DUCTILE IRON THREADED	N/A	N/A	ANVIL
	GROOVED	DN	N/A	VICTAULIC
2.05	PIPE HANGERS AND SUPPORTS			TOLCO
210523				
2.03	BUTTERFLY VALVE			
	GROOVED BUTTERFLY VALVES WITH SUPERVISORY TAMPER SWITCH	SERIES 705	7770-0531:0113	VICTAULIC
2.04	CHECK VALVES			
	GROOVED CHECK VALVE	G-1	N/A	VIKING
2.09	BALL, GLOBE OR ANGLE VALVES			
	BALL VALVE	KT-585	N/A	NIBCO
	GLOBE VALVE	125SUL	N/A	UNITED BRASS
	ANGLE VALVE	126SUL	N/A	UNITED BRASS
211300				
1.06	STRUCTURAL DESIGN AND SEISMIC REQUIREMENTS			
	IN-LINE SWAY BRACE ATTACHMENT	FIG. 4L	N/A	TOLCO
	UNIVERSAL SWIVEL SWAY BRACE	FIG. 980	N/A	TOLCO
	SWAY BRACE ATTACHMENT	FIG. 1001	N/A	TOLCO
	SURGE RESTRAINER	FIG. 25	N/A	TOLCO
2.02	SPRINKLERS			
	MICROFAST QR SSU	VK300	N/A	VIKING
	MIRAGE QR CONC SSP	VK464	N/A	VIKING
	MIRAGE QR CONC SSP	VK4621	N/A	VIKING
2.03	PIPING SPECIALTIES			
	ALARM BELL	PBA-AC	7135-0328:0119	POTTER
	FLOWSWITCH	VSR	7770-0328:0001	POTTER
	CONTROL VALVE SUPERVISORY SWITCH	PCVS-1	7770-0328:0010	POTTER
	OS&Y SUPERVISORY SWITCH	OSYSU	7770-0328:0010	POTTER

Hydrant Flow Test Report

Test Date 8/19/25 **Test Time** 7:30 AM

Location
E. Tulare St. & Pine St.
Shafter, Ca. 93263

Tested by
Another In The Fire Sprinkler
16022 San Marco Pl.
Bakersfield, Ca. 93314
NICET Level IV Cert. #149354
C-16 License #1078553
David Holt & Thomas Wroe

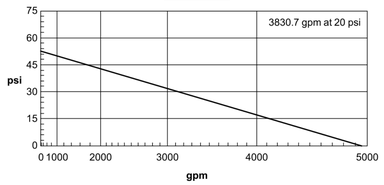
Notes

Read Hydrant
53 psi **static pressure**
50 psi **residual pressure**
1-6 ft **hydrant elevation**

Flow Hydrant(s)

Outlet	Elev	Size	C	Pitot Pressure	Flow
#1		2.5	.9	39	1048 gpm

Flow Graph



Created with the free hydrant flow test program from www.igneusinc.com

FIRE SPRINKLER NOTES

1. ALL WORKS AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN COMPLIANCE WITH THE FOLLOWING CODES AS AMENDED AND ADOPTED BY THE INSPECTION AUTHORITY. NOTHING IN THESE PLANS IS TO BE CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THESE CODES OR OTHERS APPLICABLE TO THIS PROJECT.
   A. CALIFORNIA ADMINISTRATIVE CODE 2025 (CAC) PART 1, TITLE 24 CCR
   B. CALIFORNIA FIRE CODE, 2022
   C. NFPA-13, 2022
   D. NFPA-24, 2022
   E. DIVISION OF THE STATE ARCHITECT
   F. CALIFORNIA BUILDING CODE - 2022
   G. CALIFORNIA MECHANICAL CODE- 2022
   H. CALIFORNIA PLUMBING CODE - 2022
   I. CALIFORNIA ELECTRICAL CODE - 2022
   J. STATE OF CALIFORNIA ENERGY CONSERVATION REGULATIONS, TITLE 24 - 2022
   K. NATIONAL FIRE PROTECTION ASSOCIATION
   L. OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA)
2. SEISMIC PROTECTION: ALL PIPING SHALL CONFORM TO THE REQUIREMENTS OF NFPA 13 (2022) CHAPTER 18.
3. ANY DAMAGE TO NEW BUILDING ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL SYSTEMS THAT OCCURS DURING INSTALLATION SHALL BE RESTORED TO THE ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE. IF LANDSCAPED AREAS INCLUDING NATURAL SPACES, MUST BE USED FOR BUILDING ACCESS THE LANDSCAPING SHALL BE RETURNED TO IT'S ORIGINAL CONDITION. THE CONTRACTOR MAY INCLUDE COSTS IN THE BID FOR THIS WORK IF THIS APPROACH IS USED. THE OWNER WILL NOT PAY ANY ADDITIONAL COSTS TO COVER DAMAGE TO THE BUILDING SYSTEMS, LANDSCAPING, OR DRIVE AREAS.
4. COORDINATE THE FOLLOWING WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWING ELEMENTS INSTALLED INCLUDING EXISTING BUILDING SYSTEMS:
   A. EXACT LOCATION OF ALL EQUIPMENT.
   B. ALL PENETRATIONS THRU ROOF, WALLS AND FLOORS.
   C. EXACT SIZE AND ROUTING OF PIPING.
5. DRAWINGS ARE DIAGRAMMATIC ONLY. PIPE, VALVES, AND EQUIPMENT SHALL FOLLOW THE ARRANGEMENT SHOWN WHILE STILL COORDINATING ROUTING AROUND OBSTRUCTIONS TO THE SPRINKLER LAYOUT.
6. INSTALLATION OF THE SPRINKLER SYSTEM SHALL NOT BE STARTED UNTIL COMPLETE PLANS AND SPECIFICATION, INCLUDING WATER SUPPLY INFORMATION, HAVE BEEN APPROVED BY LP CONSULTING ENGINEERS. AT VARIOUS STAGES AND UPON COMPLETION, THE SYSTEM MUST BE TESTED IN THE PRESENCE OF THE AUTHORITY HAVING JURISDICTION (AHJ).
7. THE LOCATION OF THE FIRE SPRINKLER HEADS SHALL BE COORDINATED WITH THE NEW CEILING LAYOUTS AND ALL OTHER TRADES FOR COMPLETE FIRE PROTECTION COVERAGE OF ALL AREAS. PROVIDE DETAILED PLANS FOR APPROVAL PRIOR TO INSTALLATION.
8. HEADS SHALL BE SYMMETRICALLY LOCATED IN CENTER OF CEILING PANELS. COORDINATE LAYOUT WITH CEILING OR SOFFIT LIGHT FIXTURES, HVAC DIFFUSERS AND RETURN GRILLS, SPEAKERS, FIRE ALARM DEVICES, ETC. PROVIDE PENDENT AND/OR CONCEALED TYPE SPRINKLER HEADS WHERE REQUIRED.
9. WORKMANSHIP:
   ALL WORK SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER ACCORDING TO THE BEST TRADE PRACTICE BY THOSE SKILLED IN THEIR PARTICULAR TRADE. PIPES, HANGERS, AND DEVICES,TO BE INSTALLED LEVEL, SQUARE OR CENTERED TO GIVE A NEAT AND PLEASING APPEARANCE. ALL EQUIPMENT IS TO BE INSTALLED STRICTLY PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE ALL WORK WITH OTHER TRADES AND ARCHITECT.
10. THE ANNULAR SPACE BETWEEN PIPE SLEEVES AND THE PIPE THROUGH ALL RATED WALLS AND FLOORS SHALL BE FIRESTOPPED. FIRESTOPPING ALL PIPE PENETRATIONS SHALL COMPLY WITH U.L REQUIREMENTS. MANUFACTURER PREAPPROVED UL PENETRATION FOR PROSET, OR APPROVED EQUAL. SUBMIT SHOP DRAWINGS.
11. BY OTHERS:
    A. ELECTRICAL CONTRACTOR: ALL POWER AND ALARM WIRING, CONDUITS, DISCONNECTS, AND FINAL CONNECTIONS. NO FIELD SUPPLIED ELECTRICAL DEVICE SHALL BE MOUNTED ON PIPING AND NO RIGID ELECTRICAL CONNECTIONS SHALL BE MADE
    B. GENERAL CONTRACTOR: CUTTING, FRAMING, PATCHING, FURRING, AND PAINTING.
12. WARRANTY:
    ALL MATERIALS AND EQUIPMENT INSTALLED UNDER THIS CONTRACT SHALL BE GUARANTEED FREE FROM ALL FIRE PROTECTION, ELECTRICAL, AND WORKMANSHIP DEFECTS FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO THE PREMISES CAUSED BY LEAKS AND/OR BREAKS IN PIPES AND FIXTURES INSTALLED UNDER THIS CONTRACT.
13. IT IS THE INTENTION OF THE PLANS AND SPECIFICATIONS TO COVER ALL THINGS REQUIRED TO PROVIDE COMPLETE AND FUNCTIONING SYSTEMS. THE CONTRACTOR IS TO FURNISH ALL LABOR, MATERIALS, TRANSPORTATION, EQUIPMENT, MISCELLANEOUS SERVICES, ETC., REQUIRED TO ACCOMPLISH THIS RESULT. ANYTHING WHICH MAY BE REASONABLY CONSTRUED AS A NECESSARY PART OF THE INSTALLATION WHETHER SPECIFICALLY SHOWN OR MENTIONED, SHALL BE INCLUDED. THE ENGINEER WILL GIVE ANY INTERPRETATIONS NECESSARY FOR THE CONTRACTOR TO PROPERLY ESTIMATE AND INSTALL THE WORK.
14. THE CONTRACTOR SHALL SURVEY EXISTING FIELD CONDITIONS PRIOR TO BIDDING.
15. ALL EXISTING FIRE PROTECTION SYSTEMS SHALL REMAIN IN OPERATION DURING ALL PHASES OF CONSTRUCTION. NO SYSTEMS ARE TO BE SHUTDOWN WITHOUT AUTHORIZATION FROM THE OWNER AND LOCAL FIRE DISTRICT.
16. C-16 CONTRACTOR SHALL GENERATE SHOP DRAWINGS CONSISTENT WITH THE DESIGN INTENT SHOWN ON THE CONTRACT DOCUMENTS. CONTRACTOR SHALL CAPTURE ANY NECESSARY MODIFICATIONS TO THE LAYOUT THROUGH THE COORDINATION WITH ALL OTHER TRADES, PRIOR TO SUBMITTING TO ENGINEER FOR REVIEW OR SENDING OUT FOR FABRICATION. CHANGES THAT DO NOT AFFECT THE SPRINKLER DESIGN INTENT OR HYDRAULIC CALCULATIONS ARE NOT INTENDED TO PREVENT THE CONTRACTOR FROM MAKING ANY NECESSARY MODIFICATIONS DURING COORDINATION INCLUDING BUT NOT LIMITED TO CHANGING OR ADDING PROTECTION BECAUSE OF OBSTRUCTIONS TO SPRINKLER DISCHARGE, CENTERING OF SPRINKLER HEADS, RELOCATING DUE TO CONSTRUCTIBILITY AND COORDINATION, OR ADDING ADDITIONAL SPRINKLER HEADS FOR FULL PROTECTION OF A SPACE OR A COMPARTMENT. SPRINKLER LAYOUT CHANGES REQUIRED AFTER THE C-16 CONTRACTOR HAS SUBMITTED SHOP DRAWINGS FOR REVIEW SHALL NOT WARRANT A CHANGE ORDER IF PLANS SUBMITTED WERE RECEIVED WITH DEFICIENCIES OR CODE VIOLATIONS.
    A. CONTRACTOR SHOP DRAWINGS: USED FOR COORDINATION AND AS INSTALLATION DRAWINGS TO INDICATE PIPE LENGTHS, ELEVATIONS, FLOOR AND WALL PENETRATIONS.
    B. ENGINEER'S REVIEW OF SUBMITTALS DOES NOT RELIEVE CONTRACTOR FROM COORDINATING INSTALLATION OF WORK WITH OTHER TRADES, OR FROM COMPLIANCE WITH ANY CODES OR STANDARDS.
    C. COPIES OF CONTRACT DRAWINGS CANNOT BE USED AS THE CONTRACTOR'S INSTALLATION DRAWINGS FOR REVIEW. CONTRACT DRAWINGS ARE USED FOR SUBMITTAL AND APPROVAL TO THE REVIEWING AGENCY ONLY AND DO NOT SHOW THE CONTRACTOR'S CONTINUED COORDINATION WITH OTHER TRADES, FABRICATED LENGTHS, OR APPROPRIATE TAKE OFFS FOR FITTINGS.

FIRE SPRINKLER LEGEND

1 / FP1 — DETAIL DESIGNATION, DETAIL NUMBER, SHEET NO. WHERE SHOWN	
##	HYDRAULIC CALCULATION REFERENCE NODE
SB2	LATERAL SEISMIC BRACE
SB1	LONGITUDINAL SEISMIC BRACE
	FOUR WAY BRACE
	FIRE SPRINKLER RISER
	GROOVED COUPLING
	PIPE HANGER DESIGNATION
	ALARM BELL CONNECTED TO FLOW SWITCH
	CHANGE IN ELEVATION
	CAP
	PLUG
	VALVE
	BRANCH LINE RESTRAINT (SEE DETAILS FOR REFERENCE)
	NEW FIRE SPRINKLER PIPE
●	FIRE SPRINKLER CONCEALED PENDENT HEAD
○	FIRE SPRINKLER UPRIGHT HEAD
▷	FIRE SPRINKLER SIDEWALL
BOR	BASE OF RISER
TOR	TOP OF RISER

GENERAL NOTES

1. THE SYSTEM DESIGN AND INSTALLATION SHALL COMPLY WITH NFPA 13, 2022 EDITION AND DIVISION OF THE STATE ARCHITECT.
2. SYSTEM DESIGN IS FOR: ORDINARY HAZARD GROUP 1 & 2
3. CITY WATER SUPPLY INFORMATION:
   STATIC: 53 PSI RESIDUAL: 50 PSI FLOW: 1048 GPM
4. ALL PIPE 2" AND SMALLER SHALL BE SCHEDULE 40, BLACK STEEL (GALVANIZED AT EXTERIOR INSTALLATION) ANSI/ASTM A53.
5. ALL GROOVED AND WELDED PIPE 2 1/2" - 6" SHALL BE SCHEDULE 10, BLACK STEEL (GALVANIZED AT EXTERIOR INSTALLATION) ANSI/ASTM A795.
6. THREADED FITTINGS SHALL BE CLASS 125 THREADED DUCTILE IRON ANSI B16.3.
7. ALL THREADED PIPE AND FITTINGS SHALL HAVE THREADS CUT TO ANSI/ASME STANDARD B1.20.1.
8. ALL PIPE WELDING SHALL BE IN COMPLIANCE WITH THE REQUIREMENTS AWS D10.9 (STANDARD FOR BUILDING SERVICE PIPING)
9. ALL PIPE SHALL BE EARTHQUAKE BRACED AS OUTLINED IN NFPA 13, 2022 EDITION, SECTION 18.1.
10. ALL HANGER COMPONENTS AND INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 13, 2022 EDITION, SECTION 17.2 AND 17.4.
11. FIRE SPRINKLER SUPPLY AND STUB OUT SHALL BE INSTALLED AND TESTED PER NFPA 24.
12. ALL NEW PIPING IS TO BE HYDROSTATICALLY TESTED TO CODE FOR A PERIOD NOT LESS THAN TWO HOURS.
13. FLOW AND TAMPER SWITCHES ARE TO BE CONNECTED TO FIRE ALARM PANEL.
14. 2X4 REGULAR TILE, PENDENT SPRINKLERS ARE TO BE CENTERED IN 2'X2' SPACE. (TYPICAL)

SCOPE OF WORK

PROJECT DESCRIPTION: NEW FIRE SPRINKLER SYSTEM TO ACCOMMODATE NEW BUILDING CONSTRUCTION

OWNER: CERES UNIFIED SCHOOL DISTRICT

CODE ANALYSIS:

TOTAL BUILDING AREA: 14,044 SF BUILDING HEIGHT: ONE STORY

CONSTRUCTION TYPE: V-B OCCUPANCY TYPE: (A-2, B, E)

VICINITY MAP

OVERHEAD FIRE SPRINKLER SYSTEM NOTES

1. NFPA 13 (2022) SEC. 6.10.2.1.1 UNDERGROUND MAINS AND LEAD-IN CONNECTIONS TO SYSTEM RISERS SHALL BE COMPLETELY FLUSHED BEFORE CONNECTIONS ARE MADE TO THE OVERHEAD FIRE SPRINKLER PIPING SYSTEM. (WITNESSED BY THE INSPECTOR OF RECORD)
2. NFPA 13 (2022) SEC. 18.4.2. CLEARANCE SHALL BE PROVIDED AROUND ALL PIPING EXTENDING THROUGH WALLS, FLOORS, PLATFORMS AND FOUNDATIONS INCLUDING DRAINS SUCH THAT THE DIAMETER OF THE HOLES IS 2 INCHES LARGER THAN THE PIPE FOR PIPE UP TO 3", AND 4 INCHES LARGER THAN THE PIPE FOR PIPE 4" AND LARGER.
3. NFPA 13 (2022) SEC. 29.2.1 ALL INTERIOR PIPING AND APPURTENANCES SUBJECTED TO SYSTEM WORKING PRESSURE SHALL BE HYDROSTATICALLY TESTED AT 200 PSI AND SHALL MAINTAIN THAT PRESSURE WITHOUT LOSS FOR 2 HOURS. (WITNESSED BY IOR)
4. NFPA 13 (2022) SEC. 16.2.7.5 VERIFY THAT THE SPARE SPRINKLER HEAD CABINET INCLUDES,WRENCH, AND NO FEWER THAN A TOTAL OF 6 SPARE SPRINKLER HEADS MATCHING THE TYPES AND TEMPERATURE RATINGS IN EACH PROTECTED BUILDING FOR SYSTEMS WITH LESS THAN 300 SPRINKLERS AND 12 SPARE SPRINKLERS FOR SYSTEMS WITH 300-1000 SPRINKLERS.
5. NFPA 13 (2022) SEC. 18.6.1 PROVIDE RESTRAINT OF BRANCH LINES BY USING A HANGER NO LESS THAN 45 DEGREES FROM VERTICAL INSTALLED WITHIN 6 INCHES OF THE VERTICAL HANGER ARRANGED FOR RESTRAINT AGAINST UPWARD MOVEMENT, PROVIDED IT IS UTILIZED SUCH THAT L/R DOES NOT EXCEED 400, WHERE THE ROD SHALL EXTEND TO THE PIPE OR HAVE A SURGE CLIP INSTALLED.
6. NFPA 72 (2022) SEC. 17.13.2 SPRINKLER FLOW SWITCHES SHALL BE TESTED BY IOR TO CONFIRM THAT WHEN THE INSPECTORS' TEST VALVE IS ACTIVATED, FLOW SWITCH ACTIVATION OCCURS WITHIN 90 SECONDS.
7. WATER FLOW ALARM SHALL BE WIRED AND MONITORED PER CBC (2022) SEC. 903.4.1, ALARM, SUPERVISORY, AND TROUBLE SIGNALS SHALL BE DISTINCTLY DIFFERENT AND SHALL BE AUTOMATI-CALLY TRANSMITTED TO AN APPROVED SUPERVISING STATION OR, WHERE APPROVED BY THE FIRE CODE OFFICIAL, SHALL SOUND AN AUDIBLE SIGNAL AT A CONSTANTLY ATTENDED LOCATION.
8. NFPA 13 (2022) SEC. 16.11.3.1 THE ALARM APPARATUS FOR A WET PIPE SYSTEM SHALL CONSIST OF A LISTED ALARM CHECK VALVE OR OTHER LISTED WATERFLOW DETECTION ALARM DEVICE WITH THE NECESSARY ATTACHMENTS REQUIRED TO GIVE AN ALARM.
9. NFPA 13 (2022) SEC. 29.4 HYDRAULIC CALCULATION DESIGN DATA PLACARD IS TO BE ATTACHED TO EVERY FIRE SPRINKLER SYSTEM RISER AND FLOOR CONTROL ASSEMBLY.
10. NFPA 13 (2022) SEC. 29.1 THE FIRE SPRINKLER CONTRACTOR (C-16) SHALL COMPLETE AND SIGN THE CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR THE OVERHEAD FIRE SPRINKLER SYSTEM USING THE FORM IN NFPA 13 (2022) FIGURE A29.1. THIS FORM SHALL BE GIVEN TO THE DSA PROJECT INSPECTOR WHO WILL TURN IT IN FOR DSA RECORDS.
11. NFPA 13 (2022) SEC. 29.2.3.4 THE MAIN DRAIN VALVE SHALL BE OPENED AND REMAIN OPEN UNTIL THE SYSTEM PRESSURE STABILIZES. THE STATIC AND RESIDUAL PRESSURES SHALL BE RECORDED ON THE CONTRACTOR'S MATERIAL AND TEST CERTIFICATE AND THE SPRINKLER SYSTEM GENERAL INFORMATION PLACARD. THE TEST IS TO BE WITNESSED BY THE INSPECTOR OF RECORD - IOR.
12. NFPA 13 (2022) SEC. 17.4.3.7 SPRIGS 4 FT OR LONGER SHALL BE RESTRAINED AGAINST LATERAL MOVEMENT TO PREVENT DAMAGE TO PIPING.
13. TITLE 19. ARTICLE 906(A) A LABEL OF THE SELF-ADHESIVE TYPE SHALL BE PLACED ON THE FIRE DEPARTMENT CONNECTION OR ON THE RISER FOR FIRE SPRINKLER SYSTEM WITH THE DATE OF SERVICE AND/OR DATE INSTALLATION WAS PERFORMED AND LICENSE NUMBER OF PERSON PERFORMING SERVICE WORK.
14. GENERAL INFORMATION PLACARD SHALL BE ATTACHED TO EACH RISER PER NFPA 13 (2022) SEC. 29.6.
15. THE TESTING AND MAINTENANCE OF THE SYSTEM CORROSION INHIBITOR IS TO BE BY THE OWNERS' SERVICE CONTRACTOR. WORK UNDER THIS CONTRACT IS NOT TO INCLUDE CORROSION INHIBITOR.

FIRE SPRINKLER SHEET INDEX

SHEET NUMBER	SHEET NAME
FP-001	FIRE SPRINKLER LEGENDS, NOTES AND SCHEDULES
FP-101	FIRE SPRINKLER SITE PLAN
FP-201	FIRE SPRINKLER - PIPING PLAN
FP-211	FIRE SPRINKLER - REFLECTED CEILING PLAN
FP-411	FIRE SPRINKLER SECTIONS
FP-601	SEISMIC CALCULATIONS
FP-602	SEISMIC CALCULATIONS
FP-603	SEISMIC CALCULATIONS
FP-801	FIRE SPRINKLER DETAILS
FP-802	FIRE SPRINKLER DETAILS
FP-803	FIRE SPRINKLER DETAILS

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DWG V3	04/28/2026

PROJECT NO:22434-E-02

FIRE SPRINKLER LEGENDS, NOTES AND SCHEDULES

FP-001

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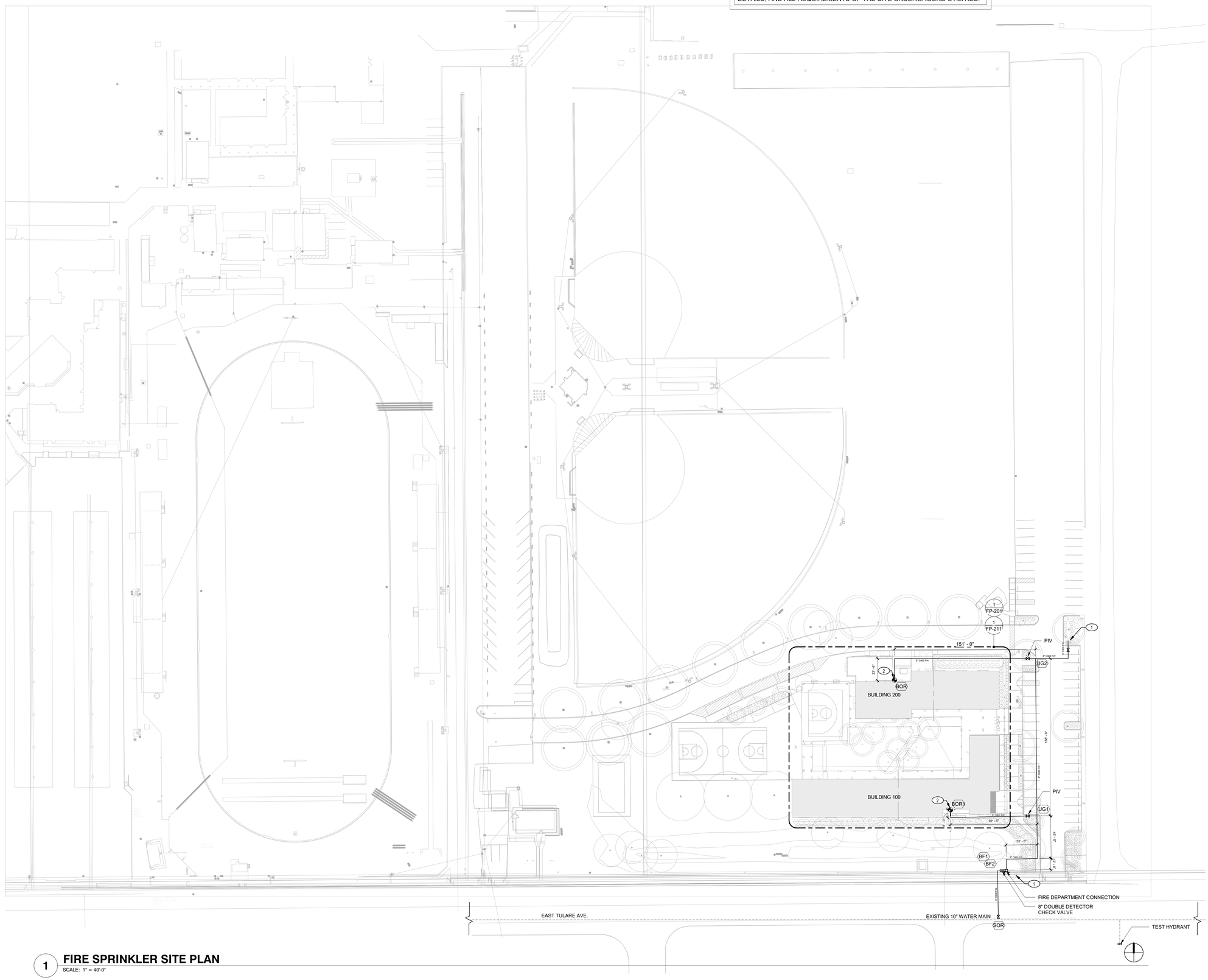
SITE UNDERGROUND NOTE

BUILDING FIRE PROTECTION SCOPE ENDS 5 FEET OUTSIDE OF BUILDING. FIRE PROTECTION SITE UNDERGROUND PLAN BEYOND 5 FEET IS USED FOR REFERENCING FIRE SPRINKLER HYDRAULIC CALCULATIONS ONLY. SEE CIVIL PLANS FOR THE INSTALLATION OF UNDERGROUND PIPING, DEVICES, DETAILS, AND ALL REQUIREMENTS OF THE SITE UNDERGROUND UTILITIES.

KEY NOTES

(#)

1 FIRE HYDRANT PER CIVIL DRAWINGS
2 SCH.10 GALVANIZED STEEL SPRINKLER SYSTEM RISER



1 FIRE SPRINKLER SITE PLAN

SCALE: 1" = 40'-0"

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FIRE SPRINKLER SITE PLAN

FP-101

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HYDRAULIC CALCULATION	
THIS BUILDING IS HYDRAULICALLY DESIGNED USING CRITERIA FROM NFPA 13, 2022 EDITION.	
LOCATION: SCIENCE CLASSROOM 121	
REMOTE AREA # 1	
BASIS OF DESIGN	
HAZARD CLASSIFICATION:	OH2
DESIGN DENSITY:	0.20
REMOTE AREA % INCREASE/DECREASE:	N/A
ACTUAL SIZE OF REMOTE AREA (SF):	1575
SYSTEM DEMAND AT BASE OF RISER (BOR)	
PRESSURE REQUIRED (PSI):	35.1
FLOW REQUIRED (GPM):	452.5
ADDED HOSE - INSIDE: N/A OUTSIDE: 250	
SYSTEM DEMAND @ SOURCE (TEST)	
PRESSURE REQUIRED (PSI):	44.8
FLOW REQUIRED (GPM):	702.5
PRESSURE AVAILABLE (PSI):	51.6
SAFETY MARGIN (%):	13.2%
SPRINKLER HEAD(S)	
# OF SPRINKLERS CALCULATED	21
THREAD:	3/4"
K-FACTOR:	5.6K - 5.6K
RESPONSE TYPE:	155F QR
ORIENTATION:	CONC PND
SIN #:	VK464 , VK4621
MAXIMUM AREA PER SPRINKLER:	130 SQFT
MINIMUM PRESSURE REQUIRED:	7 PSI
MINIMUM DISCHARGE REQUIRED:	26.0 GPM

HYDRAULIC CALCULATION	
THIS BUILDING IS HYDRAULICALLY DESIGNED USING CRITERIA FROM NFPA 13, 2022 EDITION.	
LOCATION: CONCEALED SPACE ABOVE ROOM 124, ROOM 125	
REMOTE AREA # 2	
BASIS OF DESIGN	
HAZARD CLASSIFICATION:	LIGHT
DESIGN DENSITY:	0.10
REMOTE AREA % INCREASE/DECREASE:	- 40%
ACTUAL SIZE OF REMOTE AREA (SF):	958
SYSTEM DEMAND AT BASE OF RISER (BOR)	
PRESSURE REQUIRED (PSI):	20.5
FLOW REQUIRED (GPM):	170.6
ADDED HOSE - INSIDE: N/A OUTSIDE: 100	
SYSTEM DEMAND @ SOURCE (TEST)	
PRESSURE REQUIRED (PSI):	29.6
FLOW REQUIRED (GPM):	270.6
PRESSURE AVAILABLE (PSI):	52.8
SAFETY MARGIN (%):	43.9%
SPRINKLER HEAD(S)	
# OF SPRINKLERS CALCULATED	10
THREAD:	1/2"
K-FACTOR:	5.6K
RESPONSE TYPE:	200F QR
ORIENTATION:	UPRIGHT
SIN #:	VK300
MAXIMUM AREA PER SPRINKLER:	130 SQFT
MINIMUM PRESSURE REQUIRED:	7 PSI
MINIMUM DISCHARGE REQUIRED:	14.8 GPM

HYDRAULIC CALCULATION	
THIS BUILDING IS HYDRAULICALLY DESIGNED USING CRITERIA FROM NFPA 13, 2022 EDITION.	
LOCATION: KITCHEN	
REMOTE AREA # 5	
BASIS OF DESIGN	
HAZARD CLASSIFICATION:	OH1, LH
DESIGN DENSITY:	0.15, 0.10
REMOTE AREA % INCREASE/DECREASE:	0
ACTUAL SIZE OF REMOTE AREA (SF):	1517
SYSTEM DEMAND AT BASE OF RISER (BOR)	
PRESSURE REQUIRED (PSI):	27.4
FLOW REQUIRED (GPM):	285.66
ADDED HOSE - INSIDE: N/A OUTSIDE: 250	
SYSTEM DEMAND @ SOURCE (TEST)	
PRESSURE REQUIRED (PSI):	36.8
FLOW REQUIRED (GPM):	535.66
PRESSURE AVAILABLE (PSI):	51.6
SAFETY MARGIN (%):	28.4%
SPRINKLER HEAD(S)	
# OF SPRINKLERS CALCULATED	15
THREAD:	1/2"
K-FACTOR:	5.6K
RESPONSE TYPE:	155F QR
ORIENTATION:	CONC PND
SIN #:	VK4621
MAXIMUM AREA PER SPRINKLER:	130, 196 SQFT
MINIMUM PRESSURE REQUIRED:	7 PSI
MINIMUM DISCHARGE REQUIRED:	19.6 GPM

HYDRAULIC CALCULATION	
THIS BUILDING IS HYDRAULICALLY DESIGNED USING CRITERIA FROM NFPA 13, 2022 EDITION.	
LOCATION: CONCEALED SPACE ABOVE CLASSROM 210, 211	
REMOTE AREA # 3	
BASIS OF DESIGN	
HAZARD CLASSIFICATION:	LIGHT
DESIGN DENSITY:	0.10
REMOTE AREA % INCREASE/DECREASE:	- 40%
ACTUAL SIZE OF REMOTE AREA (SF):	1078
SYSTEM DEMAND AT BASE OF RISER (BOR)	
PRESSURE REQUIRED (PSI):	26.0
FLOW REQUIRED (GPM):	184.3
ADDED HOSE - INSIDE: N/A OUTSIDE: 100	
SYSTEM DEMAND @ SOURCE (TEST)	
PRESSURE REQUIRED (PSI):	35.3
FLOW REQUIRED (GPM):	284.3
PRESSURE AVAILABLE (PSI):	53.7
SAFETY MARGIN (%):	33.0%
SPRINKLER HEAD(S)	
# OF SPRINKLERS CALCULATED	12
THREAD:	1/2"
K-FACTOR:	5.6K
RESPONSE TYPE:	200F QR
ORIENTATION:	UPRIGHT
SIN #:	VK300
MAXIMUM AREA PER SPRINKLER:	130 SQFT
MINIMUM PRESSURE REQUIRED:	7 PSI
MINIMUM DISCHARGE REQUIRED:	14.8 GPM

HYDRAULIC CALCULATION	
THIS BUILDING IS HYDRAULICALLY DESIGNED USING CRITERIA FROM NFPA 13, 2022 EDITION.	
LOCATION: CLASSROOM 210, 211	
REMOTE AREA # 4	
BASIS OF DESIGN	
HAZARD CLASSIFICATION:	LIGHT
DESIGN DENSITY:	0.10
REMOTE AREA % INCREASE/DECREASE:	- 40%
ACTUAL SIZE OF REMOTE AREA (SF):	1013
SYSTEM DEMAND AT BASE OF RISER (BOR)	
PRESSURE REQUIRED (PSI):	31.8
FLOW REQUIRED (GPM):	168.2
ADDED HOSE - INSIDE: N/A OUTSIDE: 100	
SYSTEM DEMAND @ SOURCE (TEST)	
PRESSURE REQUIRED (PSI):	41.0
FLOW REQUIRED (GPM):	248.2
PRESSURE AVAILABLE (PSI):	52.8
SAFETY MARGIN (%):	22.3%
SPRINKLER HEAD(S)	
# OF SPRINKLERS CALCULATED	8
THREAD:	1/2"
K-FACTOR:	5.6
RESPONSE TYPE:	155F QR
ORIENTATION:	CONC PND
SIN #:	VK4621
MAXIMUM AREA PER SPRINKLER:	196 SQFT
MINIMUM PRESSURE REQUIRED:	7 PSI
MINIMUM DISCHARGE REQUIRED:	19.6 GPM

1 FIRE PROTECTION PIPING PLAN
SCALE: 1/8" = 1'-0"

2 PIPING @ ROOF BUMP OUTS
SCALE: 1/8" = 1'-0"

3 PIPING @ ROOF BUMP OUTS
SCALE: 1/8" = 1'-0"

4 PIPING PLAN @ CALC AREA 4
SCALE: 1/8" = 1'-0"

KEY NOTES

(#)

1 SPRINKLER HEADS OMITTED BENEATH NON-COMBUSTIBLE EXTERIOR OVERHANGS PER NFPA 13 (2022)SECTION 9.2.3.1
2 6" FIRE ALARM BELL MOUNTED TO EXTERIOR WALL AND CONNECTED TO FLOW SWITCH
3 AUTOMATIC AIR VENT SHALL BE INSTALLED AT THE HIGHEST POINT ON A MAIN OR BRANCH LINE PIPE PER NFPA 13 (2022) SECTION 16.7
4 UP 1"DIA. X 9-2 TO SPRINKLER IN ROOF BUMP OUT
5 UP 1"DIA. X 8-8 TO SPRINKLER IN ROOF BUMP OUT
6 4X3 GALVANIZED CONCENTRIC REDUCER AFTER ELBOW
7 4" SCH 10 SPRINKLER SYSTEM RISER. ALL PIPE AND FITTINGS SHALL BE GALVANIZED. ALL EXPOSED THREADS ON PIPE SHALL ALSO BE COATED WITH A COAT OF RUSTO-LEUM SPRAY PAINT APPLICATION, TO PREVENT UNCOATED THREADS FROM RUSTING.
8 PROVIDE LISTED CHROME HEAD GUARDS FOR ALL SPRINKLER HEADS IN THIS SPACE

GENERAL NOTES

A. ALL PIPING, FITTINGS, AND BRACING EXPOSED TO ELEMENTS TO BE GALVANIZED.

FIRE SPRINKLER HEAD SCHEDULE						
SYMBOL	TYPE	TEMP	ORF	K	FINISH	QUANTITY
○	VK300 QR SSU SPRINKLER	200	1/2"	5.6	BRASS	188
◇	VK464 QR CONC PND SPRINKLER WITH WHITE COVER PLATE	155	3/4"	8.0	BRASS	16
●	VK4621 QR CONC PND SPRINKLER WITH WHITE COVER PLATE	155	1/2"	5.6	BRASS	134

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FIRE SPRINKLER - PIPING PLAN

FP-201

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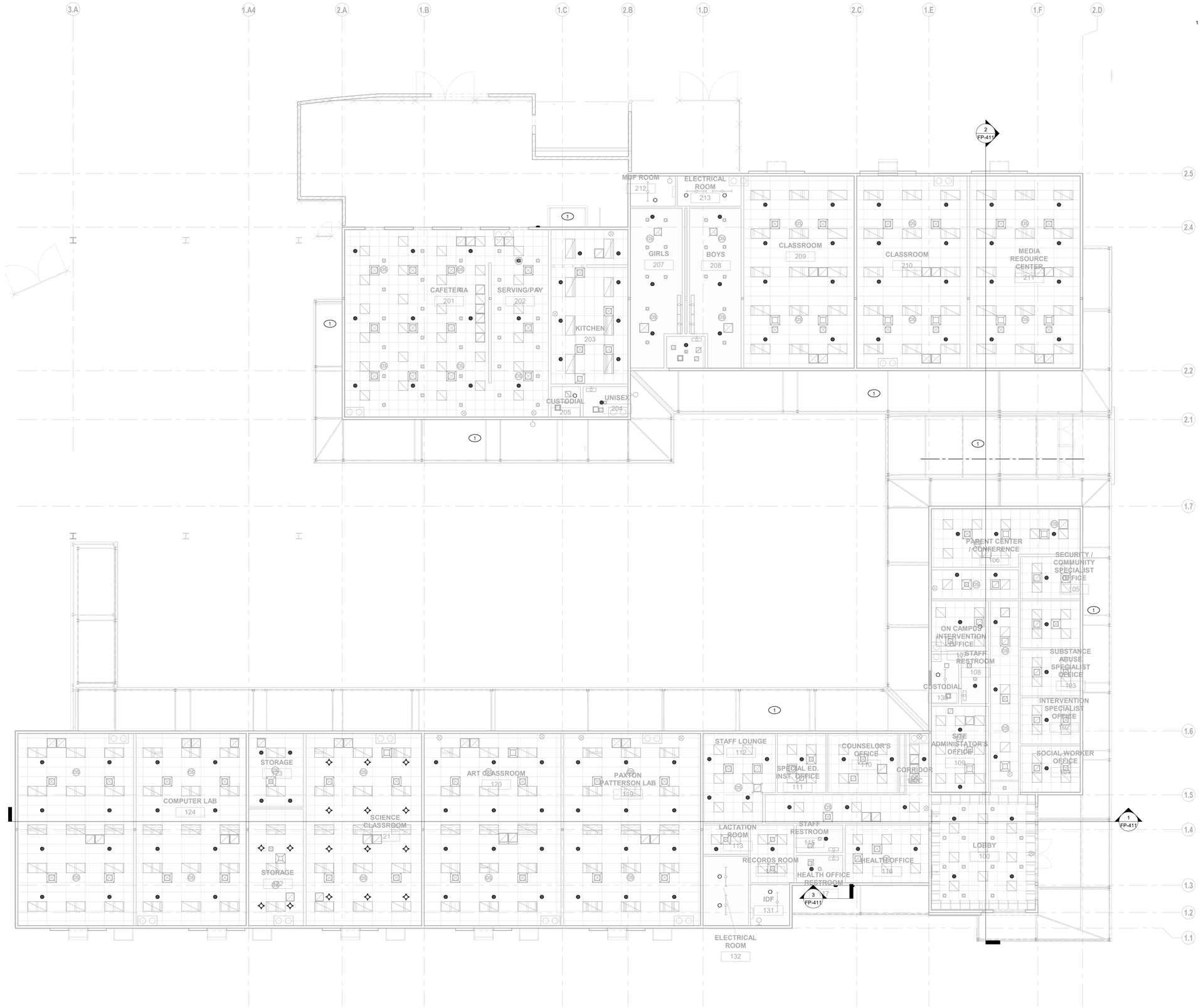

1 **FIRE SPRINKLER REFLECTED CEILING PLAN**
SCALE: 1/8" = 1'-0"

KEY NOTES

(#)

1 SPRINKLER HEADS OMITTED BENEATH NON-COMBUSTIBLE EXTERIOR OVERHANGS PER NFPA 13 (2022)SECTION 9.2.3.1

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FIRE SPRINKLER - REFLECTED CEILING PLAN

FP-211

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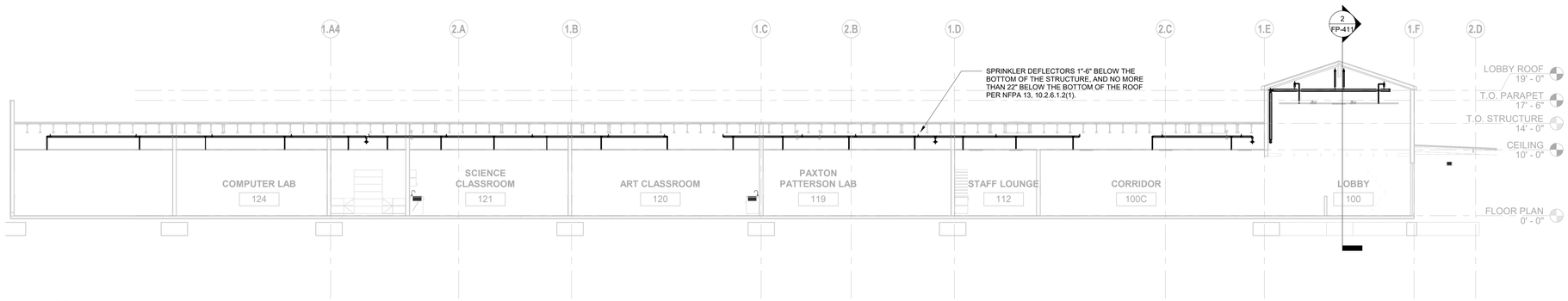
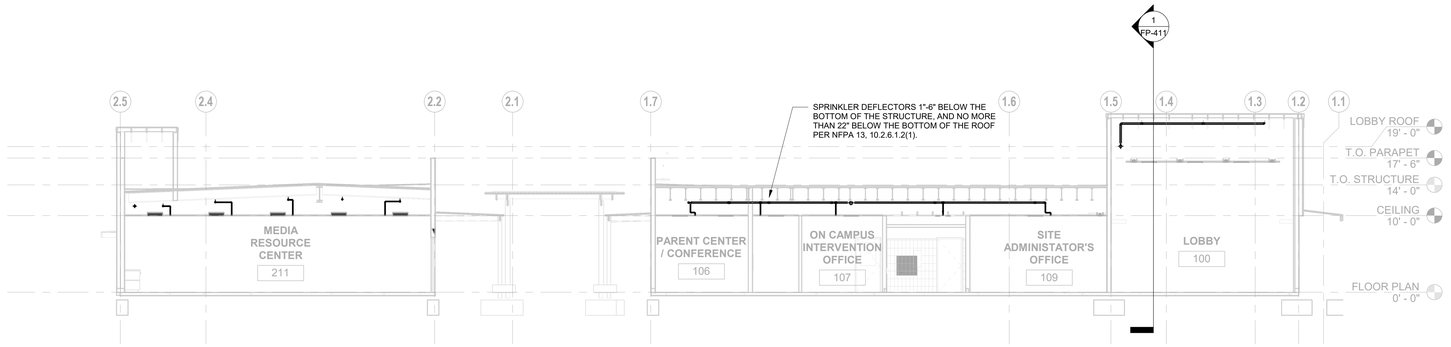
KEY NOTES

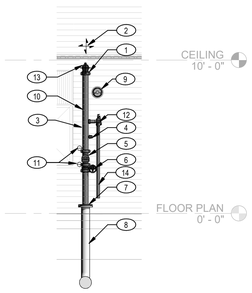
#	
1	FLEXIBLE COUPLING (WITHIN 24" OF TOP OF RISER)
2	FOUR WAY BRACE PER NFPA 13 (2022) SEC. 18.5.8.1
3	HYDRAULIC DESIGN INFORMATION AND GENERAL INFORMATION SIGNS ATTACHED TO SYSTEM RISER PER NFPA 13 (2022) SECTION 29.4 AND 29.6
4	FLOW SWITCH CONNECT TO FIRE ALARM BELL AND FIRE ALARM SYSTEM
5	CHECK VALVE
6	BUTTERFLY VALVE CONNECT TAMPER SWITCH TO FIRE ALARM SYSTEM
7	FLEXIBLE COUPLING (WITHIN 24" OF BOTTOM OF RISER)
8	6" AMES IN BUILDING RISER- PIPE JOINTS SHALL NOT BE LOCATED DIRECTLY UNDER FOUNDATION
9	6" FIRE ALARM BELL MOUNTED TO EXTERIOR WALL AND CONNECTED TO FLOW SWITCH
10	4" SCH 10 SPRINKLER SYSTEM RISER. ALL PIPE AND FITTINGS SHALL BE GALVANIZED. ALL EXPOSED THREADS ON PIPE SHALL ALSO BE COATED WITH A COAT OF RUSTO-LEUM SPRAY PAINT APPLICATION, TO PREVENT UNCOATED THREADS FROM RUSTING.
11	PRESSURE GAUGE WITH GLOBE VALVE AND PLUG
12	2" MAIN TEST & DRAIN WITH AGF MODEL 7000 PRESSURE RELIEF VALVE PROVIDE PERMANENTLY MARKED WEATHERPROOF METAL OR RIGID PLASTIC IDENTIFICATION SIGN PER NFPA 13 (2022) SEC. 16.9.11
13	4X3 GALVANIZED CONCENTRIC REDUCER AFTER ELBOW
14	2" GALVANIZED SCH.40 DRAIN PIPE



1 FIRE SPRINKLER SECTION 1
SCALE: 1/8" = 1'-0"



2 FIRE SPRINKLER SECTION 2
SCALE: 1/8" = 1'-0"



3 TYPICAL RISER SECTION
SCALE: 1/4" = 1'-0"

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SS ☑ FLS ☑ ACS ☑
DATE: 04/28/2026

SGPA
ARCHITECTURE AND PLANNING
3111 CAMINO DEL RIO NORTH,
STUDIO 500
SAN DIEGO, CA 92108
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CONSULTING ENGINEERS
MEP & FS / Sustainability / CxA
1209 Pleasant Grove Blvd.
Roseville, CA 95678
p 916-771-0778
www.lpengineers.com
Job #: 24-2161

REGISTERED PROFESSIONAL ENGINEER
SEAN POURYAZDI
M 32311
REN. 6-30-27
MECHANICAL
STATE OF CALIFORNIA

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KERN HIGH SCHOOL DISTRICT
5801 SUNDALE AVE.
BAKERSFIELD, CA 93309

CENTRAL VALLEY
CONTINUATION HIGH SCHOOL CAMPUS
526 MANNEL AVENUE
SHAFTER, CA 93263

DRAWING SUBMITTAL SCHEDULE	
100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO: 22434-E-02

FIRE SPRINKLER SECTIONS

FP-411

Autodesk Docs://KUSD - Central Valley Continuation HS\24-2161 Central Valley CHS_MEP_FP_T_R23.rvt
4/16/2026 3:29:24 PM

TOLBrace™ Seismic Bracing Calculations

V8.8.144

Project Address: Central Valley Continuation High Sch
526 Mannel Avenue
Shafter, Ca
Job # 24-2161

Contractor: LP Consulting Engineers
Address: 1209 Pleasant Grove Ave.
Roseville, Ca, 95678
Phone: 916-771-0778
License:

Calculations based on 20220 NFPA Pamphlet #13

Brace Information

Maximum Brace Length	7' 0" (2.134 m)
Diameter of Brace	1"
Type of Brace	Sch.40
Angle of Brace	60° Min.
Least Rad. of Gyration	0.42" (11 mm)
L/R Value	200
Max Horizontal Load	1604 lbs (728 kg)

Fastener Information

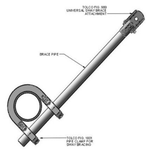
Orientation to Connecting Surface	NFPA Type I
Fastener	
Type	3/4in. x 1 1/2in. Thru Bolt
Diameter	3/4in.
Length	1 1/2in.
Maximum Load	450 lbs (204 kg)
Prying Factor	N/A

TOLCO™ Brace Components

TOLCO™ Component	Listed Load	Adjusted Load
Fig. 1001 Clamp	2015 lbs (914 kg)	1745 lbs (792 kg)
Fig.980 - 3/8" Universal Swivel	1600 lbs (726 kg)	1386 lbs (629 kg)
See Fastener Information		

*Calculation Based on CONCENTRIC Loading
*Please Note: These calculations are for TOLCO™ components only. Use of any other components voids these calculations and the listing of the assembly.

Seismic Brace Assembly Detail



Brace Identification on Plans SB2
Brace Type Lateral [X] Longitudinal [ ] 4-Way [ ]

Sprinkler System Load Calculation (Fpw = CpWp)

Cp = 0.51

Diameter	Type	Length	Total Length	Weight Per Unit Length	Total Weight
4" (100 mm)	Sch. 10	15 ft (4.6 m)	15 ft (4.6 m)	11.78 lb/ft (17.53 kg/m)	177 lbs (80 kg)
2" (50 mm)	Sch. 40	93 ft (28.3 m)	93 ft (28.3 m)	5.13 lb/ft (7.63 kg/m)	477 lbs (216 kg)
1" (25 mm)	Sch. 40	36 ft (11 m)	36 ft (11 m)	2.05 lb/ft (3.05 kg/m)	74 lbs (34 kg)
				Subtotal Weight	728 lbs (330 kg)
				Wp (incl. 15%)	837 lbs (380 kg)
Main Size 4"	Type/Sch. Sch. 10	Spacing (ft) 15		Total (Fpw)	427 lbs (194 kg)
				Maximum Fpw per 18.5.5.2 (if applicable)	991 lb (449 kg)

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TOLBrace™ Seismic Bracing Calculations

V8.8.144

Project Address: Central Valley Continuation High Sch
526 Mannel Avenue
Shafter, Ca
Job # 24-2161

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Address: 1209 Pleasant Grove Ave.
Roseville, Ca, 95678
Phone: 916-771-0778
License:

Calculations based on 20220 NFPA Pamphlet #13

Brace Information

Maximum Brace Length	7' 0" (2.134 m)
Diameter of Brace	1"
Type of Brace	Sch.40
Angle of Brace	60° Min.
Least Rad. of Gyration	0.42" (11 mm)
L/R Value	200
Max Horizontal Load	1604 lbs (728 kg)

Fastener Information

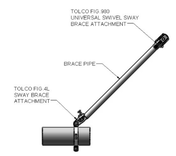
Orientation to Connecting Surface	NFPA Type I
Fastener	
Type	3/4in. x 1 1/2in. Thru Bolt
Diameter	3/4in.
Length	1 1/2in.
Maximum Load	450 lbs (204 kg)
Prying Factor	N/A

TOLCO™ Brace Components

TOLCO™ Component	Listed Load	Adjusted Load
Fig. 4L Clamp	2000 lbs (907 kg)	1732 lbs (786 kg)
Fig.980 - 3/8" Universal Swivel	1600 lbs (726 kg)	1386 lbs (629 kg)
See Fastener Information		

*Calculation Based on CONCENTRIC Loading
*Please Note: These calculations are for TOLCO™ components only. Use of any other components voids these calculations and the listing of the assembly.

Seismic Brace Assembly Detail



Brace Identification on Plans SB1
Brace Type Lateral [ ] Longitudinal [X] 4-Way [ ]

Sprinkler System Load Calculation (Fpw = CpWp)

Cp = 0.51

Diameter	Type	Length	Total Length	Weight Per Unit Length	Total Weight
4" (100 mm)	Sch. 10	40 ft (12.2 m)	40 ft (12.2 m)	11.78 lb/ft (17.53 kg/m)	471 lbs (214 kg)
				Subtotal Weight	471 lbs (214 kg)
				Wp (incl. 15%)	542 lbs (246 kg)
Main Size 4"	Type/Sch. Sch. 10	Spacing (ft) 40		Total (Fpw)	276 lbs (125 kg)
				Maximum Fpw per 18.5.5.2 (if applicable)	N/A

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ASCE Hazards Report

Address:
526 Mannel Ave
Shafter, California
93263

Standard: ASCE/SEI 7-16
Risk Category: III
Soil Class: D - Default (see Section 11.4.3)

Latitude: 35.507796
Longitude: -119.267885
Elevation: 352.40787722849524 ft (NAVD 88)

https://ascehazardtool.org/ Page 1 of 3 Mon Jun 09 2025

TOLBrace™ Seismic Calculations

Central Valley Continuation High School Job # 24-2161
526 Mannel Avenue

Brace Identification	SB2
Brace Type (Per NFPA#13)	NFPA Type I
Braced Pipe (ft)	4" Sch.10 Steel Pipe
Spacing of Brace	15' 0" (4.57 m)
Orientation of Brace	Lateral
Bracing Material	1" Sch.40
Maximum Brace Length	7' 0" (2.13 m)
Slenderness Ratio used for Load Calculation	200
True Angle of Brace for Calculation	60°
Type of Fastener	3/4in. x 1 1/2in. Thru Bolt
Length of Fastener	1 1/2in.

Summary of Pipe within Zone of Influence

4" Sch.10 Steel Pipe (101.6 mm)	15 ft (4.6 m)
2" Sch.40 Steel Pipe (50.8 mm)	93 ft (28.3 m)
1" Sch.40 Steel Pipe (25.4 mm)	36 ft (11 m)

G-Factor Used	0.51
Allowance for Heads and Fittings	15%
Conclusions	
Total Adjusted Load of Pipe in Zone of Influence	427 lbs (194 kg)
Material Capacity	1604 lbs (728 kg)
Fastener Capacity	450 lbs (204 kg)
Fig. 1001 Clamp	1745 lbs (792 kg)
Fig.980 - 3/8" Universal Swivel	1386 lbs (629 kg)
Structural Member	Wood Joist

Calculations prepared by Ken Thomas

* The description of the Structural Member is for informational purposes only.
TOLBrace™ software calculates the brace assembly only, not the structure it is attached to.
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TOLBrace™ Seismic Calculations

Central Valley Continuation High School Job # 24-2161
526 Mannel Avenue

Brace Identification	SB1
Brace Type (Per NFPA#13)	NFPA Type I
Braced Pipe (ft)	4" Sch.10 Steel Pipe
Spacing of Brace	40' 0" (12.19 m)
Orientation of Brace	Longitudinal
Bracing Material	1" Sch.40
Maximum Brace Length	7' 0" (2.13 m)
Slenderness Ratio used for Load Calculation	200
True Angle of Brace for Calculation	60°
Type of Fastener	3/4in. x 1 1/2in. Thru Bolt
Length of Fastener	1 1/2in.

Summary of Pipe within Zone of Influence

4" Sch.10 Steel Pipe (101.6 mm)	40 ft (12.2 m)

G-Factor Used	0.51
Allowance for Heads and Fittings	15%
Conclusions	
Total Adjusted Load of Pipe in Zone of Influence	276 lbs (125 kg)
Material Capacity	1604 lbs (728 kg)
Fastener Capacity	450 lbs (204 kg)
Fig. 4L Clamp	1732 lbs (786 kg)
Fig.980 - 3/8" Universal Swivel	1386 lbs (629 kg)
Structural Member	Wood Joist

Calculations prepared by Ken Thomas

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Seismic

Site Soil Class: D - Default (see Section 11.4.3)
Results:

S_S :	0.838	S_{D1} :	N/A
S_1 :	0.315	T_L :	12
F_a :	1.2	PGA :	0.367
F_v :	N/A	PGA_M :	0.452
S_{MS} :	1.006	F_{PGA} :	1.233
S_{M1} :	N/A	I_e :	1.25
S_{DS} :	0.671	C_v :	1.219

Ground motion hazard analysis may be required. See ASCE/SEI 7-16 Section 11.4.8.
Data Accessed: Mon Jun 09 2025
Date Source: USGS Seismic Design Maps

https://asceha zardtool.org/ Page 2 of 3 Mon Jun 09 2025

IDENTIFICATION STAMP
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APP: 03-125726 INC:
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100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO: 22434-E-02

SEISMIC CALCULATIONS

FP-601

4/6/2026 2:09:26 PM Autodesk Docs://KHSD - Central Valley Continuation HS/24-2161 Central Valley CHS_MEP_FP_T_R23.rvt

TOLBrace™ Seismic Bracing Calculations

V8.8.144

Project Address: Central Valley Continuation High Sch
526 Mannel Avenue
Shafter, Ca
Job # 24-2161

Contractor: LP Consulting Engineers
Address: 1209 Pleasant Grove Ave. Roseville, Ca, 95678
Phone: 916-771-0778
License:

Calculations based on 20220 NFPA Pamphlet #13

Brace Information

Maximum Brace Length	7' 0" (2.134 m)
Diameter of Brace	1"
Type of Brace	Sch.40
Angle of Brace	60° Min.
Least Rad. of Gyration	0.42" (11 mm)
L/R Value	200
Max Horizontal Load	1604 lbs (728 kg)

Fastener Information

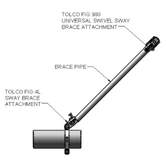
Orientation to Connecting Surface	NFPA Type I
Fastener	
Type	3/4in. x 1 1/2in. Thru Bolt
Diameter	3/4in.
Length	1 1/2in.
Maximum Load	450 lbs (204 kg)
Prying Factor	N/A

TOLCO™ Brace Components

TOLCO™ Component	Listed Load	Adjusted Load
Fig. 4L Clamp	2000 lbs (907 kg)	1732 lbs (786 kg)
Fig.980 - 3/8" Universal Swivel	1600 lbs (726 kg)	1386 lbs (629 kg)
See Fastener Information		

*Calculation Based on CONCENTRIC Loading
*Please Note: These calculations are for TOLCO™ components only. Use of any other components voids these calculations and the listing of the assembly.

Seismic Brace Assembly Detail



Brace Identification on Plans SB1-1
Brace Type Lateral [ ] Longitudinal [X] 4-Way [ ]

Sprinkler System Load Calculation (Fpw = CpWp)

Cp = 0.51

Diameter	Type	Length	Total Length	Weight Per Unit Length	Total Weight
3" (80 mm)	Sch. 10	40 ft (12.2 m)	40 ft (12.2 m)	7.94 lb/ft (11.82 kg/m)	318 lbs (144 kg)
				Subtotal Weight	318 lbs (144 kg)
				Wp (incl. 15%)	366 lbs (166 kg)

Main Size	Type/Sch.	Spacing (ft)		
3"	Sch. 10	40	Total (Fpw)	187 lbs (85 kg)
			Maximum Fpw per 18.5.5.2 (if applicable)	N/A

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TOLBrace™ Seismic Bracing Calculations

V8.8.144

Project Address: Central Valley Continuation High Sch
526 Mannel Avenue
Shafter, Ca
Job # 24-2161

Contractor: LP Consulting Engineers
Address: 1209 Pleasant Grove Ave. Roseville, Ca, 95678
Phone: 916-771-0778
License:

Calculations based on 20220 NFPA Pamphlet #13

Brace Information

Maximum Brace Length	7' 0" (2.134 m)
Diameter of Brace	1"
Type of Brace	Sch.40
Angle of Brace	60° Min.
Least Rad. of Gyration	0.42" (11 mm)
L/R Value	200
Max Horizontal Load	1604 lbs (728 kg)

Fastener Information

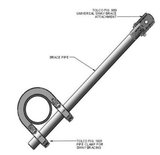
Orientation to Connecting Surface	NFPA Type I
Fastener	
Type	3/4in. x 1 1/2in. Thru Bolt
Diameter	3/4in.
Length	1 1/2in.
Maximum Load	450 lbs (204 kg)
Prying Factor	N/A

TOLCO™ Brace Components

TOLCO™ Component	Listed Load	Adjusted Load
Fig. 1001 Clamp	2015 lbs (914 kg)	1745 lbs (792 kg)
Fig.980 - 3/8" Universal Swivel	1600 lbs (726 kg)	1386 lbs (629 kg)
See Fastener Information		

*Calculation Based on CONCENTRIC Loading
*Please Note: These calculations are for TOLCO™ components only. Use of any other components voids these calculations and the listing of the assembly.

Seismic Brace Assembly Detail



Brace Identification on Plans SB4
Brace Type Lateral [X] Longitudinal [ ] 4-Way [ ]

Sprinkler System Load Calculation (Fpw = CpWp)

Cp = 0.51

Diameter	Type	Length	Total Length	Weight Per Unit Length	Total Weight
4" (100 mm)	Sch. 10	30 ft (9.1 m)	30 ft (9.1 m)	11.78 lb/ft (17.53 kg/m)	353 lbs (160 kg)
2" (50 mm)	Sch. 40	22 ft (6.7 m)	22 ft (6.7 m)	5.13 lb/ft (7.63 kg/m)	113 lbs (51 kg)
1" (25 mm)	Sch. 40	12 ft (3.7 m)	12 ft (3.7 m)	2.05 lb/ft (3.05 kg/m)	25 lbs (11 kg)
				Subtotal Weight	491 lbs (223 kg)
				Wp (incl. 15%)	565 lbs (256 kg)

Main Size	Type/Sch.	Spacing (ft)		
4"	Sch. 10	30	Total (Fpw)	288 lbs (131 kg)
			Maximum Fpw per 18.5.5.2 (if applicable)	650 lb (294 kg)

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TOLBrace™ Seismic Bracing Calculations

V8.8.144

Project Address: Central Valley Continuation High Sch
526 Mannel Avenue
Shafter, Ca
Job # 24-2161

Contractor: LP Consulting Engineers
Address: 1209 Pleasant Grove Ave. Roseville, Ca, 95678
Phone: 916-771-0778
License:

Calculations based on 20220 NFPA Pamphlet #13

Brace Information

Maximum Brace Length	7' 0" (2.134 m)
Diameter of Brace	1"
Type of Brace	Sch.40
Angle of Brace	60° Min.
Least Rad. of Gyration	0.42" (11 mm)
L/R Value	200
Max Horizontal Load	1604 lbs (728 kg)

Fastener Information

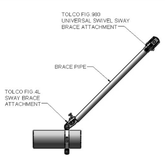
Orientation to Connecting Surface	NFPA Type I
Fastener	
Type	1/2in. x 1 1/2in. Thru Bolt
Diameter	1/2in.
Length	1 1/2in.
Maximum Load	310 lbs (141 kg)
Prying Factor	N/A

TOLCO™ Brace Components

TOLCO™ Component	Listed Load	Adjusted Load
Fig. 4L Clamp	2000 lbs (907 kg)	1732 lbs (786 kg)
Fig.980 - 3/8" Universal Swivel	1600 lbs (726 kg)	1386 lbs (629 kg)
See Fastener Information		

*Calculation Based on CONCENTRIC Loading
*Please Note: These calculations are for TOLCO™ components only. Use of any other components voids these calculations and the listing of the assembly.

Seismic Brace Assembly Detail



Brace Identification on Plans SB3
Brace Type Lateral [ ] Longitudinal [X] 4-Way [ ]

Sprinkler System Load Calculation (Fpw = CpWp)

Cp = 0.51

Diameter	Type	Length	Total Length	Weight Per Unit Length	Total Weight
4" (100 mm)	Sch. 10	40 ft (12.2 m)	40 ft (12.2 m)	11.78 lb/ft (17.53 kg/m)	471 lbs (214 kg)
				Subtotal Weight	471 lbs (214 kg)
				Wp (incl. 15%)	542 lbs (246 kg)

Main Size	Type/Sch.	Spacing (ft)		
4"	Sch. 10	40	Total (Fpw)	276 lbs (125 kg)
			Maximum Fpw per 18.5.5.2 (if applicable)	N/A

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TOLBrace™ Seismic Calculations

Central Valley Continuation High School Job # 24-2161
526 Mannel Avenue

Brace Identification	SB1-1
Brace Type (Per NFPA#13)	NFPA Type I
Braced Pipe (ft)	3" Sch.10 Steel Pipe
Spacing of Brace	40' 0" (12.19 m)
Orientation of Brace	Longitudinal
Bracing Material	1" Sch.40
Maximum Brace Length	7' 0" (2.13 m)
Slenderness Ratio used for Load Calculation	200
True Angle of Brace for Calculation	60°
Type of Fastener	3/4in. x 1 1/2in. Thru Bolt
Length of Fastener	1 1/2in.

Summary of Pipe within Zone of Influence

3" Sch.10 Steel Pipe (76.2 mm)	40 ft (12.2 m)

G-Factor Used 0.51

Allowance for Heads and Fittings	15%
Conclusions	
Total Adjusted Load of Pipe in Zone of Influence	186 lbs (84 kg)
Material Capacity	1604 lbs (728 kg)
Fastener Capacity	450 lbs (204 kg)
Fig. 4L Clamp	1732 lbs (786 kg)
Fig.980 - 3/8" Universal Swivel	1386 lbs (629 kg)
Structural Member	Wood Joist

Calculations prepared by Ken Thomas

* The description of the Structural Member is for informational purposes only.
TOLBrace™ software calculates the brace assembly only, not the structure it is attached to.
Calculated with TOLBrace™ 8
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TOLBrace™ Seismic Calculations

Central Valley Continuation High School Job # 24-2161
526 Mannel Avenue

Brace Identification	SB4
Brace Type (Per NFPA#13)	NFPA Type I
Braced Pipe (ft)	4" Sch.10 Steel Pipe
Spacing of Brace	30' 0" (9.14 m)
Orientation of Brace	Lateral
Bracing Material	1" Sch.40
Maximum Brace Length	7' 0" (2.13 m)
Slenderness Ratio used for Load Calculation	200
True Angle of Brace for Calculation	60°
Type of Fastener	3/4in. x 1 1/2in. Thru Bolt
Length of Fastener	1 1/2in.

Summary of Pipe within Zone of Influence

4" Sch.10 Steel Pipe (101.6 mm)	30 ft (9.1 m)
2" Sch.40 Steel Pipe (50.8 mm)	22 ft (6.7 m)
1" Sch.40 Steel Pipe (25.4 mm)	12 ft (3.7 m)

G-Factor Used 0.51

Allowance for Heads and Fittings	15%
Conclusions	
Total Adjusted Load of Pipe in Zone of Influence	288 lbs (131 kg)
Material Capacity	1604 lbs (728 kg)
Fastener Capacity	450 lbs (204 kg)
Fig. 1001 Clamp	1745 lbs (792 kg)
Fig.980 - 3/8" Universal Swivel	1386 lbs (629 kg)
Structural Member	Wood Joist

Calculations prepared by Ken Thomas

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TOLBrace™ Seismic Calculations

Central Valley Continuation High School Job # 24-2161
526 Mannel Avenue

Brace Identification	SB3
Brace Type (Per NFPA#13)	NFPA Type I
Braced Pipe (ft)	4" Sch.10 Steel Pipe
Spacing of Brace	40' 0" (12.19 m)
Orientation of Brace	Longitudinal
Bracing Material	1" Sch.40
Maximum Brace Length	7' 0" (2.13 m)
Slenderness Ratio used for Load Calculation	200
True Angle of Brace for Calculation	60°
Type of Fastener	1/2in. x 1 1/2in. Thru Bolt
Length of Fastener	1 1/2in.

Summary of Pipe within Zone of Influence

4" Sch.10 Steel Pipe (101.6 mm)	40 ft (12.2 m)

G-Factor Used 0.51

Allowance for Heads and Fittings	15%
Conclusions	
Total Adjusted Load of Pipe in Zone of Influence	276 lbs (125 kg)
Material Capacity	1604 lbs (728 kg)
Fastener Capacity	310 lbs (141 kg)
Fig. 4L Clamp	1732 lbs (786 kg)
Fig.980 - 3/8" Universal Swivel	1386 lbs (629 kg)
Structural Member	Wood Joist

Calculations prepared by Ken Thomas

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IDENTIFICATION STAMP
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SS ☑ FLS ☑ ACS ☑
DATE: 04/28/2026

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100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO: 22434-E-02

SEISMIC CALCULATIONS

FP-602

4/6/2026 2:09:29 PM Autodesk Docs://KHSD - Central Valley Continuation HS/24-2161 Central Valley CHS_MEP_FP_T_R23.rvt

TOLBrace™ Seismic Bracing Calculations

V8.8.144

Project Address: Central Valley Continuation High Sch
526 Mannel Avenue
Shafter, Ca
Job # 24-2161

Contractor: LP Consulting Engineers
Address: 1209 Pleasant Grove Ave. Roseville, Ca, 95678
Phone: 916-771-0778
License:

Calculations based on 20220 NFPA Pamphlet #13

Brace Information

Maximum Brace Length	7' 0" (2.134 m)
Diameter of Brace	1"
Type of Brace	Sch.40
Angle of Brace	60° Min.
Least Rad. of Gyration	0.42" (11 mm)
L/R Value	200
Max Horizontal Load	1604 lbs (728 kg)

Fastener Information

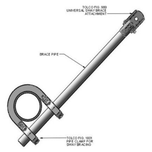
Orientation to Connecting Surface	NFPA Type I
Fastener	
Type	3/4in. x 1 1/2in. Thru Bolt
Diameter	3/4in.
Length	1 1/2in.
Maximum Load	450 lbs (204 kg)
Prying Factor	N/A

TOLCO™ Brace Components

TOLCO™ Component	Listed Load	Adjusted Load
Fig. 1001 Clamp	2000 lbs (907 kg)	1732 lbs (786 kg)
Fig.980 - 3/8" Universal Swivel	1600 lbs (726 kg)	1386 lbs (629 kg)
See Fastener Information		

*Calculation Based on CONCENTRIC Loading
*Please Note: These calculations are for TOLCO™ components only. Use of any other components voids these calculations and the listing of the assembly.

Seismic Brace Assembly Detail



Brace Identification on Plans SB4-1
Brace Type Lateral [X] Longitudinal [ ] 4-Way [ ]

Sprinkler System Load Calculation (Fpw = CpWp)

Cp = 0.51

Diameter	Type	Length	Total Length	Weight Per Unit Length	Total Weight
3" (80 mm)	Sch. 10	30 ft (9.1 m)	30 ft (9.1 m)	7.94 lb/ft (11.82 kg/m)	238 lbs (108 kg)
1.5" (40 mm)	Sch. 40	22 ft (6.7 m)	22 ft (6.7 m)	3.61 lb/ft (5.37 kg/m)	79 lbs (36 kg)
1" (25 mm)	Sch. 40	12 ft (3.7 m)	12 ft (3.7 m)	2.05 lb/ft (3.05 kg/m)	25 lbs (11 kg)

Subtotal Weight	342 lbs (155 kg)
Wp (incl. 15%)	393 lbs (178 kg)
Total (Fpw)	201 lbs (91 kg)
Maximum Fpw per 18.5.5.2 (if applicable)	384 lb (174 kg)

Main Size	Type/Sch.	Spacing (ft)
3"	Sch. 10	30

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TOLBrace™ Seismic Bracing Calculations

V8.8.144

Project Address: Central Valley Continuation High Sch
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Calculations based on 20220 NFPA Pamphlet #13

Brace Information

Maximum Brace Length	7' 0" (2.134 m)
Diameter of Brace	1"
Type of Brace	Sch.40
Angle of Brace	60° Min.
Least Rad. of Gyration	0.42" (11 mm)
L/R Value	200
Max Horizontal Load	1604 lbs (728 kg)

Fastener Information

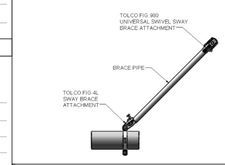
Orientation to Connecting Surface	NFPA Type I
Fastener	
Type	1/2in. x 1 1/2in. Thru Bolt
Diameter	1/2in.
Length	1 1/2in.
Maximum Load	310 lbs (141 kg)
Prying Factor	N/A

TOLCO™ Brace Components

TOLCO™ Component	Listed Load	Adjusted Load
Fig. 4L Clamp	2000 lbs (907 kg)	1732 lbs (786 kg)
Fig.980 - 3/8" Universal Swivel	1600 lbs (726 kg)	1386 lbs (629 kg)
See Fastener Information		

*Calculation Based on CONCENTRIC Loading
*Please Note: These calculations are for TOLCO™ components only. Use of any other components voids these calculations and the listing of the assembly.

Seismic Brace Assembly Detail



Brace Identification on Plans SB3-1
Brace Type Lateral [ ] Longitudinal [X] 4-Way [ ]

Sprinkler System Load Calculation (Fpw = CpWp)

Cp = 0.51

Diameter	Type	Length	Total Length	Weight Per Unit Length	Total Weight
3" (80 mm)	Sch. 10	40 ft (12.2 m)	40 ft (12.2 m)	7.94 lb/ft (11.82 kg/m)	318 lbs (144 kg)

Subtotal Weight	318 lbs (144 kg)
Wp (incl. 15%)	366 lbs (166 kg)
Total (Fpw)	187 lbs (85 kg)
Maximum Fpw per 18.5.5.2 (if applicable)	N/A

Main Size	Type/Sch.	Spacing (ft)
3"	Sch. 10	40

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TOLBrace™ Seismic Bracing Calculations

V8.8.144

Project Address: Central Valley Continuation High Sch
526 Mannel Avenue
Shafter, Ca
Job # 24-2161

Contractor: LP Consulting Engineers
Address: 1209 Pleasant Grove Ave. Roseville, Ca, 95678
Phone: 916-771-0778
License:

Calculations based on 20220 NFPA Pamphlet #13

Brace Information

Maximum Brace Length	7' 0" (2.134 m)
Diameter of Brace	1"
Type of Brace	Sch.40
Angle of Brace	60° Min.
Least Rad. of Gyration	0.42" (11 mm)
L/R Value	200
Max Horizontal Load	1604 lbs (728 kg)

Fastener Information

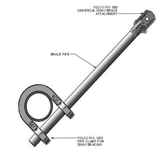
Orientation to Connecting Surface	NFPA Type I
Fastener	
Type	3/4in. x 1 1/2in. Thru Bolt
Diameter	3/4in.
Length	1 1/2in.
Maximum Load	450 lbs (204 kg)
Prying Factor	N/A

TOLCO™ Brace Components

TOLCO™ Component	Listed Load	Adjusted Load
Fig. 1001 Clamp	2000 lbs (907 kg)	1732 lbs (786 kg)
Fig.980 - 3/8" Universal Swivel	1600 lbs (726 kg)	1386 lbs (629 kg)
See Fastener Information		

*Calculation Based on CONCENTRIC Loading
*Please Note: These calculations are for TOLCO™ components only. Use of any other components voids these calculations and the listing of the assembly.

Seismic Brace Assembly Detail



Brace Identification on Plans SB2-1
Brace Type Lateral [X] Longitudinal [ ] 4-Way [ ]

Sprinkler System Load Calculation (Fpw = CpWp)

Cp = 0.51

Diameter	Type	Length	Total Length	Weight Per Unit Length	Total Weight
3" (80 mm)	Sch. 10	30 ft (9.1 m)	30 ft (9.1 m)	7.94 lb/ft (11.82 kg/m)	238 lbs (108 kg)
1.5" (40 mm)	Sch. 40	93 ft (28.3 m)	93 ft (28.3 m)	3.61 lb/ft (5.37 kg/m)	336 lbs (152 kg)
1" (25 mm)	Sch. 40	36 ft (11 m)	36 ft (11 m)	2.05 lb/ft (3.05 kg/m)	74 lbs (34 kg)

Subtotal Weight	648 lbs (294 kg)
Wp (incl. 15%)	745 lbs (338 kg)
Total (Fpw)	380 lbs (172 kg)
Maximum Fpw per 18.5.5.2 (if applicable)	384 lb (174 kg)

Main Size	Type/Sch.	Spacing (ft)
3"	Sch. 10	30

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TOLBrace™ Seismic Calculations

Central Valley Continuation High School Job # 24-2161
526 Mannel Avenue

Brace Identification	SB4-1
Brace Type (Per NFPA#13)	NFPA Type I
Braced Pipe (ft)	3" Sch.10 Steel Pipe
Spacing of Brace	30' 0" (9.14 m)
Orientation of Brace	Lateral
Bracing Material	1" Sch.40
Maximum Brace Length	7' 0" (2.13 m)
Slenderness Ratio used for Load Calculation	200
True Angle of Brace for Calculation	60°
Type of Fastener	3/4in. x 1 1/2in. Thru Bolt
Length of Fastener	1 1/2in.

Summary of Pipe within Zone of Influence

3" Sch.10 Steel Pipe (76.2 mm)	30 ft (9.1 m)
1.5" Sch.40 Steel Pipe (38.1 mm)	22 ft (6.7 m)
1" Sch.40 Steel Pipe (25.4 mm)	12 ft (3.7 m)

G-Factor Used	0.51
Allowance for Heads and Fittings	15%
Conclusions	
Total Adjusted Load of Pipe in Zone of Influence	201 lbs (91 kg)
Material Capacity	1604 lbs (728 kg)
Fastener Capacity	450 lbs (204 kg)
Fig. 1001 Clamp	1732 lbs (786 kg)
Fig.980 - 3/8" Universal Swivel	1386 lbs (629 kg)
Structural Member	Wood Joist

Calculations prepared by Ken Thomas

* The description of the Structural Member is for informational purposes only.
TOLBrace™ software calculates the brace assembly only, not the structure it is attached to.
Calculated with TOLBrace™ 8
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TOLBrace™ Seismic Calculations

Central Valley Continuation High School Job # 24-2161
526 Mannel Avenue

Brace Identification	SB3-1
Brace Type (Per NFPA#13)	NFPA Type I
Braced Pipe (ft)	3" Sch.10 Steel Pipe
Spacing of Brace	40' 0" (12.19 m)
Orientation of Brace	Longitudinal
Bracing Material	1" Sch.40
Maximum Brace Length	7' 0" (2.13 m)
Slenderness Ratio used for Load Calculation	200
True Angle of Brace for Calculation	60°
Type of Fastener	1/2in. x 1 1/2in. Thru Bolt
Length of Fastener	1 1/2in.

Summary of Pipe within Zone of Influence

3" Sch.10 Steel Pipe (76.2 mm)	40 ft (12.2 m)

G-Factor Used	0.51
Allowance for Heads and Fittings	15%
Conclusions	
Total Adjusted Load of Pipe in Zone of Influence	186 lbs (84 kg)
Material Capacity	1604 lbs (728 kg)
Fastener Capacity	310 lbs (141 kg)
Fig. 4L Clamp	1732 lbs (786 kg)
Fig.980 - 3/8" Universal Swivel	1386 lbs (629 kg)
Structural Member	Wood Joist

Calculations prepared by Ken Thomas

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TOLBrace™ Seismic Calculations

Central Valley Continuation High School Job # 24-2161
526 Mannel Avenue

Brace Identification	SB2-1
Brace Type (Per NFPA#13)	NFPA Type I
Braced Pipe (ft)	3" Sch.10 Steel Pipe
Spacing of Brace	30' 0" (9.14 m)
Orientation of Brace	Lateral
Bracing Material	1" Sch.40
Maximum Brace Length	7' 0" (2.13 m)
Slenderness Ratio used for Load Calculation	200
True Angle of Brace for Calculation	60°
Type of Fastener	3/4in. x 1 1/2in. Thru Bolt
Length of Fastener	1 1/2in.

Summary of Pipe within Zone of Influence

3" Sch.10 Steel Pipe (76.2 mm)	30 ft (9.1 m)
1.5" Sch.40 Steel Pipe (38.1 mm)	93 ft (28.3 m)
1" Sch.40 Steel Pipe (25.4 mm)	36 ft (11 m)

G-Factor Used	0.51
Allowance for Heads and Fittings	15%
Conclusions	
Total Adjusted Load of Pipe in Zone of Influence	380 lbs (172 kg)
Material Capacity	1604 lbs (728 kg)
Fastener Capacity	450 lbs (204 kg)
Fig. 1001 Clamp	1732 lbs (786 kg)
Fig.980 - 3/8" Universal Swivel	1386 lbs (629 kg)
Structural Member	Wood Joist

Calculations prepared by Ken Thomas

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Job #: 24-2161

REGISTERED PROFESSIONAL ENGINEER
SEAN POURYAZDI
M 32311
REN. 6-30-27
MECHANICAL
STATE OF CALIFORNIA

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KERN HIGH SCHOOL DISTRICT
5801 SUNDALE AVE.
BAKERSFIELD, CA 93309

CENTRAL VALLEY
CONTINUATION HIGH SCHOOL CAMPUS
526 MANNEL AVENUE
SHAFTER, CA 93263

DRAWING SUBMITTAL SCHEDULE	
100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO: 22434-E-02

SEISMIC CALCULATIONS

FP-603

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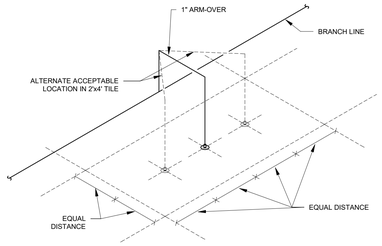
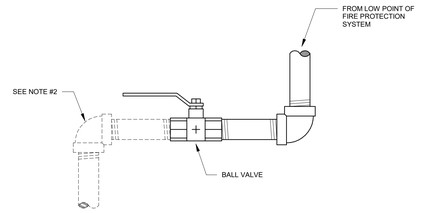


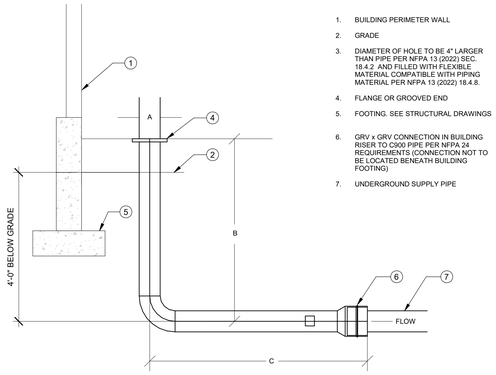
NOTES:
1. IF THE MAXIMUM PRESSURE AT THE SPRINKLER EXCEEDS 100 PSI, THE UNSUPPORTED LENGTH BETWEEN THE END SPRINKLER IN A PENDENT POSITION OR DROP NIPPLE AND THE LAST HANGER ON THE BRANCH LINE SHALL NOT BE GREATER THAN 12 INCHES.
2. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR ADDITIONAL INFORMATION ABOUT CEILING TYPES.

CENTER OF TILE 2 X 4	NTS	8



NOTES:
1. FOR DRAINING UP TO 50 GALLONS OF TRAPPED WATER, PROVIDE A PLUG AT THE BALL VALVE.
2. FOR DRAINING 50 GALLONS OR MORE, ROUTE DRAIN PIPING TO DISCHARGE TO AN APPROVED LOCATION.

AUXILIARY DRAIN	NTS	4

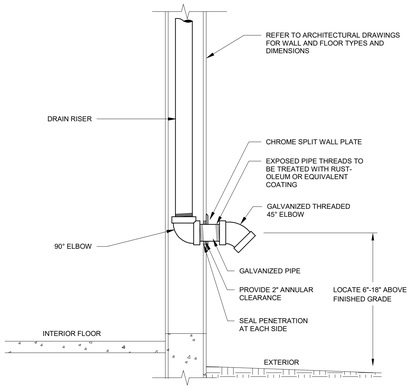


1. BUILDING PERIMETER WALL
2. GRADE
3. DIAMETER OF HOLE TO BE 4" LARGER THAN PIPE PER NFPA 13 (2022) SEC. 18.4.2 AND FILLED WITH FLEXIBLE MATERIAL COMPATIBLE WITH PIPING MATERIAL PER NFPA 13 (2022) 18.4.8.
4. FLANGE OR GROOVED END
5. FOOTING. SEE STRUCTURAL DRAWINGS
6. GRV x GRV CONNECTION IN BUILDING RISER TO C900 PIPE PER NFPA 24 REQUIREMENTS (CONNECTION NOT TO BE LOCATED BENEATH BUILDING FOOTING)
7. UNDERGROUND SUPPLY PIPE

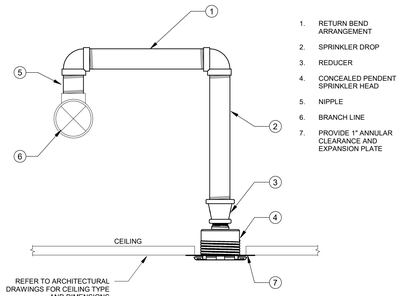
SIZE (DN)	A (OD)	B	C	WEIGHT
IN.	IN.	FT	FT	LBS
6	6 5/8	6	6	98

NOTE: EACH B (VERTICAL) AND C (HORIZONTAL) LEG IS CUSTOMIZABLE FROM 3' TO 20' WITH UL/FM APPROVALS.

EXTERIOR AMES IN BUILDING RISER DETAIL	NTS	1



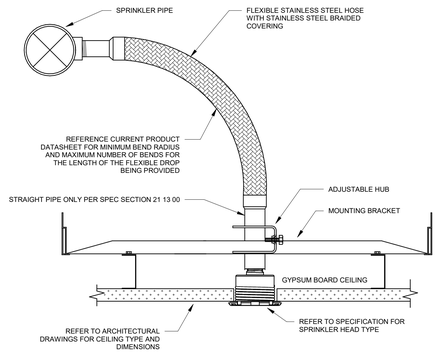
AUXILIARY DRAIN THROUGH WALL	NTS	5



1. RETURN BEND ARRANGEMENT
2. SPRINKLER DROP
3. REDUCER
4. CONCEALED PENDENT SPRINKLER HEAD
5. NIPPLE
6. BRANCH LINE
7. PROVIDE 1" ANNULAR CLEARANCE AND EXPANSION PLATE

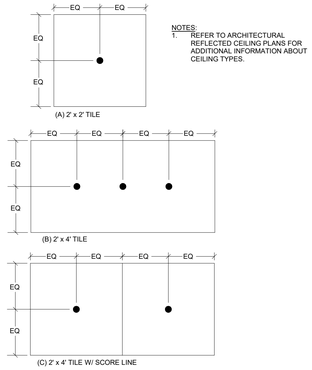
NOTES:
1. PLACE SPRINKLER IN THE CENTER OF THE CEILING TILE.
2. ONLY TOP OR SIDE TAKE-OFFS SHALL BE PERMITTED.

SPRINKLER HEAD - CONCEALED	NTS	2



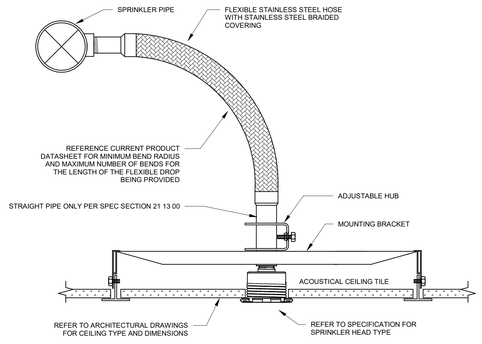
NOTES:
1. ONLY TOP OR SIDE TAKE-OFFS SHALL BE PERMITTED.

FLEXIBLE SPRINKLER DROP FOR GYP CEILING	NTS	9



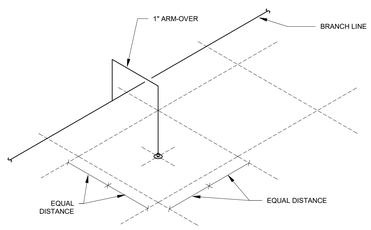
NOTES:
1. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR ADDITIONAL INFORMATION ABOUT CEILING TYPES.

CENTER OF TILE	NTS	6



NOTES:
1. ONLY TOP OR SIDE TAKE-OFFS SHALL BE PERMITTED.

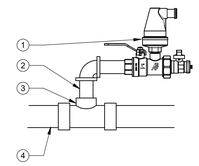
FLEXIBLE SRPINKLER DROP TO ACT	NTS	10



NOTES:
1. IF THE MAXIMUM PRESSURE AT THE SPRINKLER EXCEEDS 100 PSI, THE UNSUPPORTED LENGTH BETWEEN THE END SPRINKLER IN A PENDENT POSITION OR DROP NIPPLE AND THE LAST HANGER ON THE BRANCH LINE SHALL NOT BE GREATER THAN 12 INCHES.
2. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR ADDITIONAL INFORMATION ABOUT CEILING TYPES.

CENTER OF TILE 2 X 2	NTS	7

1. AGF AUTOMATIC AIR VENTING VALVE
2. 1" SCH. 40 (TYP.)
3. TEE.
4. BRANCH LINE PIPING.



AUTOMATIC AIR VENTING VALVE	NTS	3

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DWG V3	04/28/2026

PROJECT NO:22434-E-02

FIRE SPRINKLER DETAILS

FP-801

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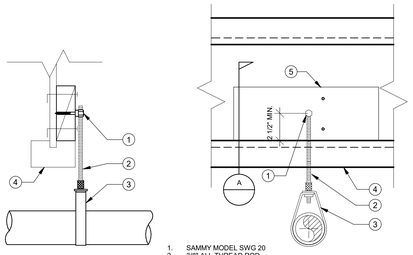
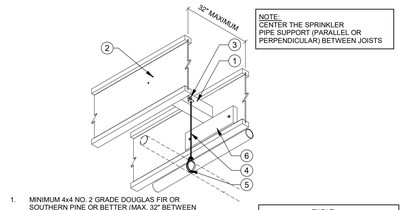


1. SAMMY MODEL SWG 20
2. 3/8" ALL THREAD ROD
3. TOLCO FIG. 200 ADJUSTABLE BAND HANGER
4. I-JOIST
5. 2x6 x 18" LONG FILLER BLOCK FASTENED WITH (2) 10d NAILS, CLINCHED

SAMMY SIDEWINDER FOR I JOIST | NTS | 7



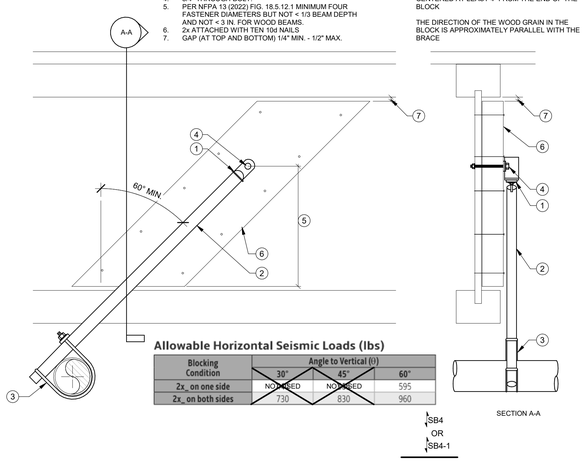
NOTE:
CENTER THE SPRINKLER PIPE SUPPORT (PARALLEL OR PERPENDICULAR) BETWEEN JOISTS

1. MINIMUM 4x4 NO. 2 GRADE DOUGLAS FIR OR SOUTHERN PINE OR BETTER (MAX. 32" BETWEEN JOISTS)
2. TWO 16D 3 1/2" COMMON NAILS
3. TOLCO FIG.58 THREADED SIDE BEAM BRACKET WITH FASTENER AS REQUIRED. SEE TABLE. LOCATE FASTENER APPROXIMATELY 1" FROM THE TOP OF THE BLOCK
4. TOLCO FIG. 99 1/2" THREADED ROD
5. TOLCO FIG. 200 ADJUSTABLE BAND HANGER
6. 2x6 x 18" LONG MIN. (RESTING ON BOTTOM FLANGE) WITH (2) 3/8" DIAMETER MACHINE BOLTS PER JOIST WITH 1" WASHERS

TABLE	
PIPE SIZE	FASTENER
3"	1/2" x 3" LAG
5"	1/2" MACHINE BOLT
6"*	5/8" MACHINE BOLT

* REQUIRES MIN. DOUGLAS FIR #2

HANGER TO I JOIST 6" MAX PIPE DIA | NTS | 8



1. TOLCO FIG. 980 UNIVERSAL SWAY ATTACHMENT.
2. BRACE PIPE - 1" SCH. 40 - 7'-0" MAX.
3. TOLCO FIG. 1001 PIPE CLAMP.
4. 3/4" THROUGH BOLT.
5. PER NFPA 13 (2022) FIG. 18.5.12.1 MINIMUM FOUR FASTENER DIAMETERS BUT NOT < 1/3 BEAM DEPTH AND NOT < 3 IN. FOR WOOD BEAMS.
6. 2x ATTACHED WITH TEN 10d NAILS
7. GAP (AT TOP AND BOTTOM) 1/4" MIN. - 1/2" MAX.

GENERAL NOTES:

MAKE CONNECTION IN TOP HALF OF BLOCK, CENTERED AT LEAST 4" FROM THE END OF THE BLOCK

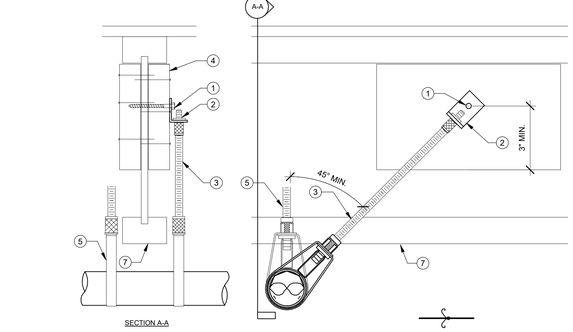
THE DIRECTION OF THE WOOD GRAIN IN THE BLOCK IS APPROXIMATELY PARALLEL WITH THE BRACE

Allowable Horizontal Seismic Loads (lbs)

Blocking Condition	Angle to Vertical (θ)		
	30°	45°	60°
2x_ on one side	NOT USED	NOT USED	595
2x_ on both sides	730	830	960

SB4
OR
SB4-1

LATERAL BRACE PIPE TO I JOIST | NTS | 4



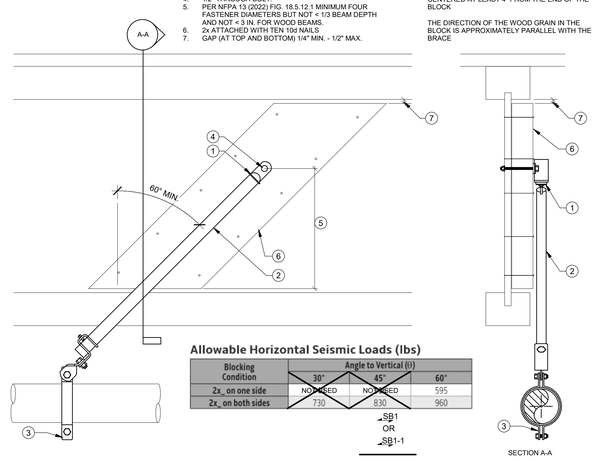
NFPA 13 (2022) TABLE 18.6.4 (a) MAXIMUM SPACING (ft) OF STEEL BRANCH LINE RESTRAINTS

PIPE (in.)	Seismic Coefficient (C_p)			
	$C_p \le 0.50$	$0.5 < C_p \le 0.71$	$0.71 < C_p \le 1.40$	$C_p > 1.40$
1	43	36	26	22
1 1/4	46	39	27	24
1 1/2	49	41	29	25
2	53	45	31	27

NOTE: SEISMIC COEFFICIENT IS 0.51

1. 1/2" x 2" LAG SCREW WITH FULL EMBEDMENT
2. TOLCO FIG. 58 THREADED SIDE BEAM BRACKET CENTERED HORIZONTALLY ON BLOCKING
3. 3/8" TOLCO FIG. 99 ALL THREAD ROD WITH SURGE RESTRAINER
4. 2 x 6 x 12 BLOCKING (EACH SIDE OF JOIST) - FACE NAILED WITH (6) 8d THROUGH JOIST AND INTO BLOCKING ON OTHER SIDE OF JOIST ON EITHER END
5. HANGER (BEYOND) WITHIN 6 IN. OF RESTRAINT INSTALL WITH SURGE RESTRAINER TO RESIST UPWARD MOVEMENT PER NFPA 13 SECTION 18.6.1 (5)
6. SPACING USED FOR BRANCH LINE RESTRAINTS
7. I JOIST

ROD RESTRAINT AT I JOIST | NTS | 5



1. TOLCO FIG. 980 UNIVERSAL SWAY ATTACHMENT.
2. BRACE PIPE - 1" SCH. 40 - 7'-0" MAX.
3. TOLCO FIG. 4L PIPE CLAMP.
4. 1/2" THROUGH BOLT.
5. PER NFPA 13 (2022) FIG. 18.5.12.1 MINIMUM FOUR FASTENER DIAMETERS BUT NOT < 1/3 BEAM DEPTH AND NOT < 3 IN. FOR WOOD BEAMS.
6. 2x ATTACHED WITH TEN 10d NAILS
7. GAP (AT TOP AND BOTTOM) 1/4" MIN. - 1/2" MAX.

GENERAL NOTES

MAKE CONNECTION IN TOP HALF OF BLOCK, CENTERED AT LEAST 4" FROM THE END OF THE BLOCK

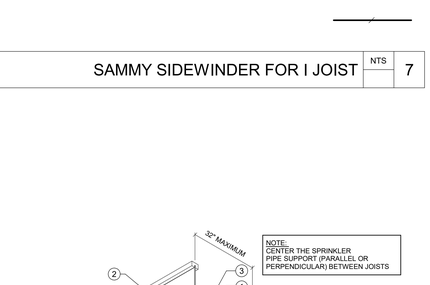
THE DIRECTION OF THE WOOD GRAIN IN THE BLOCK IS APPROXIMATELY PARALLEL WITH THE BRACE

Allowable Horizontal Seismic Loads (lbs)

Blocking Condition	Angle to Vertical (θ)		
	30°	45°	60°
2x_ on one side	NOT USED	NOT USED	595
2x_ on both sides	730	830	960

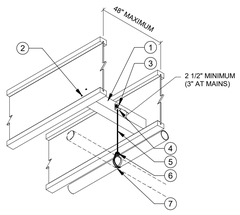
SB1
OR
SB1-1

LONGITUDINAL BRACE PIPE TO I JOIST | NTS | 1



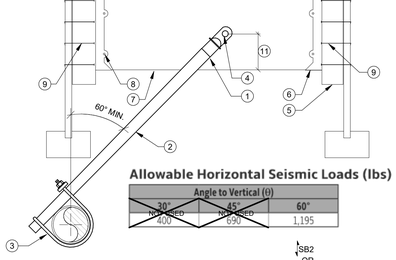
1. 2x8 x 18" LONG MIN. EACH SIDE OF JOIST WITH (2) 1/2" DIAMETER MACHINE BOLTS PER JOIST WITH WASHERS, CINCH TIGHT
2. TOLCO FIG. 58 THREADED SIDE BEAM BRACKET WITH FASTENER AS REQUIRED
3. 1/2" DIAMETER BOLT WITH WASHERS TURNED TIGHT
4. TOLCO FIG. 200 ADJUSTABLE BAND HANGER
5. PIPE (MAY BE SUPPORTED PERPENDICULAR OR PARALLEL TO JOIST RUN)
6. 3/8" THREADED ROD

ROD WITH SIDE TO I JOIST 4" MAX PIPE DIA | NTS | 9



1. MINIMUM 4x4 HANGER BLOCK
2. TWO 16D 3 1/2" NAILS EACH END
3. 3" LAG SCREW, 1/4" PILOT HOLE FOR THE 1/2" LAG.
4. TOLCO FIG. 58 THREADED SIDE BEAM BRACKET
5. 3/8" THREADED ROD
6. TOLCO FIG. 200 ADJUSTABLE BAND HANGER
7. PIPE (MAY BE SUPPORTED PERPENDICULAR OR PARALLEL TO JOIST RUN)

HANGER TO I JOIST UP TO 3" MAX. PIPE DIA. | NTS | 6



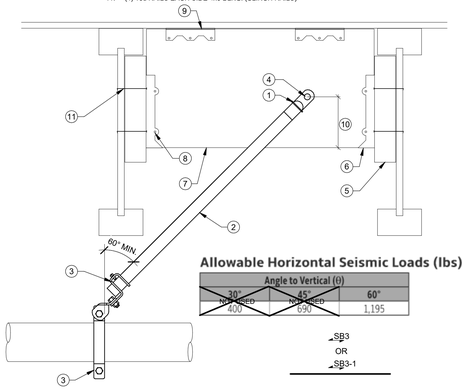
1. TOLCO FIG. 980 UNIVERSAL SWAY ATTACHMENT
2. BRACE PIPE - 1" SCH. 40 - 7'-0" MAX.
3. TOLCO FIG. 1001 PIPE CLAMP.
4. 3/4" THROUGH BOLT FASTENER MUST BE MINIMUM 7 DIAMETERS FROM END OF BLOCK AND MINIMUM 4 DIAMETERS FROM ALL OTHER EDGES.
5. 2" x 6" x 12" FILLER BLOCK
6. SIMPSON STRONG TIE U46, OR EQUIV
7. 4" x 6" HANGER BLOCK
8. NAIL THROUGH BLKG WITH (4) 10d
9. (4) 16d NAILS EACH SIDE 4x6 BLKG. (CLINCH NAILS)
10. 4X6 HANGER BLOCK ATTACHED TO SURFACE OF DECK WITH (2) A35 w/ (12) PH612I #6 x 1/2" SCREWS
11. PER NFPA 13 (2022) FIG. 18.5.12.1 MINIMUM FOUR FASTENER DIAMETERS BUT NOT < 1/3 BEAM DEPTH AND NOT < 3 IN. FOR WOOD BEAMS.

Allowable Horizontal Seismic Loads (lbs)

Angle to Vertical (θ)		
30°	45°	60°
NOT USED	NOT USED	1,195
400	690	

SB2
OR
SB2-1

LATERAL BRACE TO I JOIST | NTS | 2



1. TOLCO FIG. 980 UNIVERSAL SWAY ATTACHMENT
2. BRACE PIPE - 1" SCH. 40 - 7'-0" MAX
3. TOLCO FIG. 4L PIPE CLAMP
4. 1/2" THROUGH BOLT FASTENER MUST BE MINIMUM 7 DIAMETERS FROM END OF BLOCK AND MINIMUM 4 DIAMETERS FROM ALL OTHER EDGES.
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6. SIMPSON STRONG TIE U46, OR EQUIV
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10. PER NFPA 13 (2022) FIG. 18.5.12.1 MINIMUM FOUR FASTENER DIAMETERS BUT NOT < 1/3 BEAM DEPTH AND NOT < 3 IN. FOR WOOD BEAMS.
11. (4) 16d NAILS EACH SIDE 4x6 BLKG. (CLINCH NAILS)

Allowable Horizontal Seismic Loads (lbs)

Angle to Vertical (θ)		
30°	45°	60°
NOT USED	NOT USED	1,195
400	690	

SB3
OR
SB3-1

LONGITUDINAL BRACE TO I JOIST | NTS | 3

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CENTRAL VALLEY
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526 MANNEL AVENUE
SHAFTER, CA 93263

DRAWING SUBMITTAL SCHEDULE	
100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO: 22434-E-02

FIRE SPRINKLER DETAILS

FP-802

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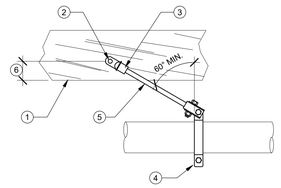
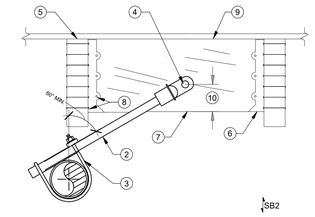
1. 2x FRAMING.
2. 3/4" THROUGH BOLT.
3. TOLCO FIG. 980 UNIVERSAL SWIVEL SWAY BRACE ATTACHMENT.
4. TOLCO FIG. 4L PIPE CLAMP.
5. 1" SCH. 40 PIPE (7'-0" MAX. LENGTH)
6. MIN. FOUR FASTENER DIAMETERS BUT NOT <1/3 BEAM DEPTH AND NOT <3 IN.



SB1

LONGITUDINAL BRACE TO 2x FRAMING	NTS	1

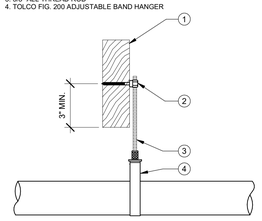
1. TOLCO FIG.980 UNIVERSAL SWAY ATTACHMENT
2. BRACE PIPE - 1" SCH.40 - 7' - 0" MAX
3. TOLCO FIG. 1001 PIPE CLAMP
4. 3/4" THROUGH BOLT
5. WOOD JOIST
6. SIMPSON STRONG TIE U410, OR EQUIV
7. 4" X 10 HANGER BLOCK WITHIN 6" OF SEISMIC BRACE, TYP
8. NAIL THROUGH BLKG WITH (6) 10d AND JOIST WITH (14) 16d NAILS AND CLINCH
9. GLUE BLKG TO SURFACE OF ROOF STRUCTURE
10. MIN. FOUR FASTENER DIAMETERS BUT NOT <1/3 BEAM DEPTH AND NOT <3 IN.



SB2

LATERAL BRACE TO 2x FRAMING	NTS	2

1. WOOD JOIST OR RAFTER
2. SAMMY SIDEWINDER SELF DRILLING SCREW MODEL SWG20
3. 3/8" ALL THREAD ROD
4. TOLCO FIG. 200 ADJUSTABLE BAND HANGER



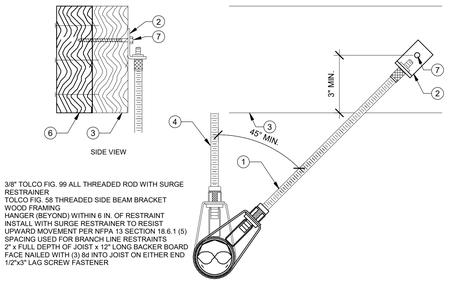
SAMMY FOR WOOD (3" MAX. PIPE SIZE)	NTS	3

NFPA 13 (2022) TABLE 18.6.4 (a) MAXIMUM SPACING (ft) OF STEEL BRANCH LINE RESTRAINTS

	Seismic Coefficient (C_p)			
PIPE (in.)	$C_p \leq 0.50$	$0.5 < C_p \leq 0.71$	$0.71 < C_p \leq 1.40$	$C_p > 1.40$
1	43	36	26	22
1 1/4	46	39	27	24
1 1/2	49	41	29	25
2	53	45	31	27

NOTE: SEISMIC COEFFICIENT IS 0.51

5



1. 3/8" TOLCO FIG. 99 ALL THREADED ROD WITH SURGE RESTRAINER
2. TOLCO FIG. 58 THREADED SIDE BEAM BRACKET
3. WOOD FRAMING
4. HANGER (BEYOND) WITHIN 6 IN. OF RESTRAINT INSTALL WITH SURGE RESTRAINER TO RESIST UPWARD MOVEMENT PER NFPA 13 SECTION 18.6.1 (5)
5. SPACING USED FOR BRANCH LINE RESTRAINTS
6. 2" x FULL DEPTH OF JOIST x 12" LONG BACKER BOARD FACE NAILED WITH (3) 8d INTO JOIST ON EITHER END
7. 1/2"X3" LAG SCREW FASTENER

ROD RESTRAINT WOOD DETAIL	NTS	4

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DWG V3	04/28/2026

PROJECT NO: 22434-E-02

FIRE SPRINKLER DETAILS

FP-803

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FIRE ALARM ABBREVIATIONS

SYMBOL	DESCRIPTIONS	SYMBOL	DESCRIPTIONS
A	ABOVE CEILING	NDU	NETWORK DISPLAY UNIT
AFF	ABOVE FINISHED FLOOR	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
AHJ	AUTHORITY HAVING JURISDICTION	NIC	NOT IN CONTRACT
ALM	ALARM	NPU	NETWORK PROCESSING UNIT
ANN	ANNUNCIATOR	NTS	NOT TO SCALE
BMS	BUILDING MANAGEMENT SYSTEM	PAP	PRE-ACTION PANEL
C	CONDUIT	PIV	POST INDICATOR VALVE
CBC	CALIFORNIA BUILDING CODE	PB	PULL BOX
CEC	CALIFORNIA ELECTRICAL CODE	(RC)	EXISTING TO REMOVE AND COVER
CFC	CALIFORNIA FIRE CODE	(RD)	EXISTING DEVICE TO BE RELOCATED
CM	CEILING MOUNTED	(RL)	RELOCATED DEVICE
CD	CANDELA RATING	(RR)	REMOVE EXISTING & REPLACE WITH NEW
DET	DETECTOR	(RP)	RELOCATE IN PLACE
DGP	DATA GATHERING PANEL	SCC	STATUS COMMAND CENTER
(E)	EXISTING TO REMAIN	SLC	SIGNALING LINE CIRCUIT
EC	EMPTY CONDUIT	SMK	SMOKE
EM	EMERGENCY	SUPV	SUPERVISORY
EMT	ELECTRICAL METALLIC TUBING	TOS	TOP OF SHAFT
EOL	END OF LINE	TRBL	TROUBLE
EPO	EMERGENCY POWER OFF	TS	TAMPER SWITCH
EVAC	EVACUATION	TYP	TYPICAL
FAA	FIRE ALARM ANNUNCIATOR	UNO	UNLESS NOTED OTHERWISE
FACP	FIRE ALARM CONTROL PANEL	VCC	VOICE COMMAND CENTER
FAPS	REMOTE FIRE ALARM POWER SUPPLY	VT	VALVE TAMPER
FATC	FIRE ALARM TERMINAL CABINET	W	WATTAGE
FBO	FURNISHED BY OTHERS	W/	WITH
FCC	FIRE COMMAND CENTER	W/O	WITHOUT
FSD	FIRE SMOKE DAMPER	WF	WATERFLOW
FTR	FIRE ALARM TRANSPONDER	WG	WIRE GUARD
GB	GROUND BOX	WP	WEATHERPROOF
H	HIGH HUMIDITY	(X)	REMOVE
HT	HEIGHT	XFMR	TRANSFORMER
HVAC	HEATING VENTILATION & AIR CONDITIONING		
IMS	INFORMATION MANAGEMENT SYSTEM		
LOC	LOCAL OPERATOR CONSOLE		
MAX	MAXIMUM		
MIN	MINIMUM		
(N)	NEW		
N/A	NOT APPLICABLE		
NA	NOT AVAILABLE		
NAC	NOTIFICATION APPLIANCE CIRCUIT		

FIRE ALARM SPEAKER/STROBE NOTES

1. PER NFPA 72 2022 SECTION 10.12.2: WHEN AN OCCUPANT NOTIFICATION ALARM SIGNAL DEACTIVATION MEANS IS ACTUATED, BOTH AUDIBLE AND VISIBLE NOTIFICATION APPLIANCES SHALL BE SIMULTANEOUSLY DEACTIVATED.
2. PER NFPA 72 2022 SECTION A10.12.2: WHERE IT IS DESIRED TO DEACTIVATE THE NOTIFICATION APPLIANCES FOR FIRE SERVICE OPERATIONS INSIDE THE BUILDING AND SIGNAL EVACUATED OCCUPANTS THAT AN ALARM IS STILL PRESENT, IT IS RECOMMENDED THAT A SEPARATE NON-SILENCEABLE NOTIFICATION ZONE WILL BE PROVIDED ON THE EXTERIOR OF THE BUILDING AND VISIBLE NOTIFICATION APPLIANCES LOCATED AT THE BUILDING ENTRANCES COULD SERVE AS A WARNING TO PREVENT OCCUPANT RE-ENTRY.
3. PROVIDE FIRE ALARM EMERGENCY COMMUNICATION SYSTEM AUDIBLE NOTIFICATION IN ALL COMMON AREAS. AUDIBLE LEVELS SHALL MEET APPLICABLE STANDARDS IN NFPA 72 CHAPTER 24.4 ONE-WAY EMERGENCY COMMUNICATION SYSTEM. TESTING AND REPORTS REQUIREMENTS FOR INTELLIGIBILITY SHALL BE PROVIDED PRIOR TO ACCEPTANCE OR FINAL TESTING WITH AUTHORITY HAVING JURISDICTION.
4. A FLASHING VISUAL WARNING DEVICE HAVING A FREQUENCY OF NOT MORE THAN 60 FLASHES PER MINUTE [TWO (2) FLASHES OR LESS THAN ONE (1) FLASH PER SECOND] SHALL BE INSTALLED TO WARN THE HEARING-IMPAIRED AS SHOWN ON THE DRAWINGS. FLASHING VISUAL WARNING DEVICES VIEWABLE WITHIN THE SAME INTERIOR SPACE SHALL BE SYNCHRONIZED. (NFPA 72, 18.5.3.6, A18.5.3.6 AND 18.5.5.5.7)
5. ALL STROBE CIRCUITS SHALL BE SYNCHRONIZED NFPA 72 A 18.5.3.6

FIRE ALARM GENERAL NOTES

1. THE INTENT OF THESE DRAWINGS AND/OR SPECIFICATIONS DESCRIBE A COMPLETE, FUNCTIONING FIRE ALARM SYSTEM (INCLUDING VOICE EVACUATION PER SB575) WITH DEVICES, WIRING AND FIRE ALARM CONTROL PANEL TO MEET THE REQUIREMENTS OF NFPA 72 AND 2022 CALIFORNIA FIRE CODE AND APPLICABLE LOCAL FIRE MARSHALL REGULATIONS AND REQUIREMENTS.
2. CONTRACTOR SHALL SUBMIT ANY ALTERATIONS OF THE APPROVED CONSTRUCTION DOCUMENTS TO THE SPECIAL INSPECTOR AND DSA FOR NEW APPROVALS. START INSTALLATION OF THE SYSTEM AFTER DETAILED PLANS, SPECIFICATIONS, NEW SHOP DRAWINGS AND SUBMITTALS HAS BEEN APPROVED BY DSA. CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR ANY DELAY.
3. PER DSA IR F-2 SECTION 1, WHEN, AS PART OF AN ALTERATION OR MODERNIZATION PROJECT OR CONSTRUCTION OF NEW BUILDING A FIRE PROTECTION/LIFE SAFETY IS PLACED OUT OF SERVICE AND AFFECTS ANY OCCUPIED PORTION OF AN EXISTING BUILDING UNDERGOING RENOVATION OR OCCUPIED BUILDINGS OR PORTIONS OF THE CAMPUS, THEN THE SCHOOL DISTRICT, DSA, AND THE ARCHITECT/ENGINEER IN GENERAL RESPONSIBLE CHARGE OF THE CONSTRUCTION PROJECT SHALL BE NOTIFIED IMMEDIATELY BY THE PROJECT INSPECTOR. IT WILL BE THE SCHOOL DISTRICT'S RESPONSIBILITY TO ESTABLISH, INSTRUCT AND MAINTAIN FIRE WATCH PERSONNEL INAT THE AFFECTED BUILDING(S), WHERE A FIRE ALARM SYSTEM IS OUT OF SERVICE, WARNING SIGNS SHALL BE POSTED AT ALL ENTRANCES TO ANY BUILDING TO INFORM THE OCCUPANTS. MODERNIZATIONS OF EXISTING BUILDINGS OR CONSTRUCTION OF NEW BUILDINGS THAT ARE NOT OCCUPIED BY THE PUBLIC, STAFF OR STUDENT DURING CONSTRUCTION, SHALL NOT REQUIRE A FIRE WATCH AS LONG AS THE CONSTRUCTION EFFORTS DO NOT AFFECT OTHER OCCUPIED AREAS OF THE BUILDING.
4. THE FIRE ALARM SYSTEM SHALL CONFORM TO THE 2022 CALIFORNIA FIRE CODE, ARTICLE 907, CBC SECTION 305 AND 2022 CALIFORNIA ELECTRICAL CODE, ARTICLE 760.
5. FIRE ALARM SYSTEM SHALL TRANSMIT ALARM, SUPERVISORY AND TROUBLE SIGNAL TO AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH 2022 NFPA 72 AND CBC 907.6.6.
6. CONTRACTOR SHALL PROVIDE A COMPLETE AND FUNCTIONAL CODE COMPLIANT SYSTEM WITH ALL REQUIRED HARDWARE, DEVICES, PROGRAMMING AND POINT/DEVICE DESCRIPTION SCHEDULES.
7. THE INSTALLING CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER CBC 901.6.3.
8. OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE SYSTEM MONITORING CONTRACT OR PROVISIONS.
9. INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED SPECIFICATIONS, INCLUDING CALIFORNIA STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAVE BEEN APPROVED BY THE CALIFORNIA STATE FIRE MARSHAL, AND THE LOCAL FIRE MARSHAL.
10. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING AGENCY AND SPECIAL INSPECTOR. THE SCHOOL SHALL NOT BE IN OPERATION UNTIL THE IOR AND THE LOCAL FIRE MARSHAL HAS VERIFIED AND/OR SIGNED OFF ON OPERATIONAL CAPACITY OF THE FIRE ALARM SYSTEM.
11. ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND /OR TESTING.
12. CONTRACTOR SHALL SUBMIT THE SPECIAL INSPECTOR NFPA CERTIFICATE OF COMPLIANCE FORM TO THE SCHOOL REPRESENTATIVE FOR SUBMISSION TO THE FIRE DEPARTMENT.
13. BEFORE REQUESTING FINAL APPROVAL OF THE INSTALLATION, THE SYSTEM INSTALLING CONTRACTOR SHALL FURNISH A WRITTEN STATEMENT TO THE INSPECTOR OF RECORD TO THE EFFECT THAT THE SYSTEM HAS BEEN INSTALLED AND COMPLETELY TESTED IN ACCORDANCE WITH 2022 NFPA 72, SECTION 7.5.2 AND 7.6.
14. CONTRACTOR SHALL PROVIDE INTELLIGIBILITY TESTING USING INTELLIGIBILITY METERS APPROVED FOR SUCH USE. REFERENCE NFPA 72 CHAPTER 24. AN STI SCORE OF 7.0 IS A MINIMUM REQUIREMENT. CONTRACTOR SHALL IDENTIFY ALL ACOUSTICALLY DISTINGUISHABLE SPACES (ADS) ON CONTRACTOR SHOP DRAWINGS.
15. THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
16. PROVIDE FIRE ALARM AUDIBLE SOUND LEVEL AT LEAST 15 DBA ABOVE THE AVERAGE AMBIENT SOUND LEVEL IN ALL OCCUPIED AREA, BUT NOT LESS THAN 75 DBA AT 10 FEET OR MORE THAN 120 DBA IN TOTAL, THROUGHOUT. SYNCHRONIZED TEMPORAL CODE 3 SOUND. (2022 NFPA 72, 18.4.2.1)
17. WALL MOUNTED VISIBLE NOTIFICATION DEVICES SHALL HAVE THEIR BOTTOMS MOUNTED AT 80" MINIMUM AND THEIR TOPS AT 96" MAXIMUM FROM FINISHED FLOOR.
18. WALL MOUNTED AUDIBLE NOTIFICATION DEVICES SHALL HAVE THEIR TOPS MOUNTED AT 90" MINIMUM FROM FINISHED FLOOR AND NO CLOSER THEN 6" TO A HORIZONTAL STRUCTURE.
19. A FLASHING VISUAL WARNING DEVICE HAVING A FREQUENCY OF NOT MORE THAN 60 FLASHES PER MINUTE [TWO (2) FLASHES OR LESS THAN ONE (1) FLASH PER SECOND] SHALL BE INSTALLED TO WARN THE HEARING-IMPAIRED AS SHOWN ON THE DRAWINGS. FLASHING VISUAL WARNING DEVICES VIEWABLE WITHIN THE SAME INTERIOR SPACE SHALL BE SYNCHRONIZED. (2022 NFPA 72, 18.5.3.1, 18.5.3.6 AND 18.5.5.7)
20. SMOKE DETECTORS SHALL NOT BE ANY CLOSER THAN 1' FROM FIRE SPRINKLERS OR 3' FROM ANY SUPPLY DIFFUSER. IN AREA OF CONSTRUCTION OR POSSIBLE DAMAGE/CONTAMINATION ON NEWLY INSTALLED FIRE ALARM, DEVICES SHALL BE COVERED UNTIL THAT AREA IS READY TO BE TURNED OVER TO THE OWNER.
21. LOCATE SMOKE AND HEAT DETECTORS AT LEAST ONE FOOT AWAY FROM FLUORESCENT LIGHT FIXTURES.
22. CONTRACTOR SHALL AFFIX TO EACH FIELD DEVICE BASE A P-TOUCH DEVICE LABEL. DEVICE LABEL SHALL BE ARRANGED FOLLOWING DETAIL "FIRE ALARM CIRCUIT IDENTIFIERS". INITIATION DEVICES CONNECTED TO EQUIPMENT BY OTHERS SHALL HAVE A LABEL AFFIXED TO MODULE INDICATING THE EQUIPMENT CONNECTED.
23. ALL PENETRATIONS THROUGH RATED ASSEMBLIES REQUIRING OPENING PROTECTION SHALL BE PROVIDED WITH A PENETRATION FIRE STOP SYSTEM AS IDENTIFIED IN CBC CHAPTER 7, UL OR OTHER APPROVED LAB TESTING CRITERIA. APPROVED TYPES OF MATERIALS SHALL BE IDENTIFIED WITHIN THE PROJECT SPECIFICATIONS WITHIN THE FIRE ALARM SECTION.
24. UNDERGROUND AND EXTERIOR CONDUITS TO HAVE WATER TIGHT FITTINGS AND WIRE TO BE APPROVED FOR WET LOCATIONS.
25. PER CEC STANDARDS, ALL WIRING IS TO BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH FIRE DEVICE. DO NOT SPLICE THE WIRE. ALL BOXES TO BE SIZED PER CEC.
26. ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT OR RACEWAY WHEN PASSING THROUGH A FLOOR OR WALL TO A HEIGHT OF 7 FEET ABOVE THE FLOOR. FIRE ALARM WIRING ABOVE CEILING SHALL BE SUPPORTED BY THE BUILDING STRUCTURE SO AS NOT TO DAMAGE THE CABLE..
27. NO SPLICES SHALL BE ALLOWED FOR FIRE ALARM SYSTEM UNDERGROUND CABLES.
28. NEW FIRE ALARM WIRING SHALL NOT BE INSTALLED IN ANY RACEWAY WITH WIRING IN EXCESS OF 24 VOLT.
29. FIRE ALARM PANEL, REMOTES, AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURERS SPECIFICATIONS. NO SINGLE DEVICE SHALL EXCEED 20 LBS. WITHOUT SPECIAL MOUNTING DETAILS.
30. ALL FIRE ALARM EQUIPMENT BRANCH CIRCUITS SHALL BE DEDICATED AS PER 2022 NFPA 72, 10.6.5.1.2 AND ITS LOCATION BE CLEARLY LABELED AT THE FIRE ALARM CONTROL PANEL.
31. ALL FIRE ALARM EQUIPMENT POWER SOURCE CIRCUITS SHALL BE IDENTIFIED AT THE POWER SOURCE PER 2022 NFPA 72, 10.6.5.2. USING A RED CLEARLY MARKED DISCONNECT WITH LOCK-ON CAPABILITY. COORDINATE WITH ELECTRICAL.
32. MICROPHONES ASSOCIATED WITH EMERGENCY VOICE ALARM COMMUNICATION SYSTEMS (EVAC) SHALL BE ACCESSIBLE FOR USE, INSTALLED IN COMPLIANCE WITH CBC SECTIONS 11B-305 AND 11B-308.
33. WHERE ACCESSIBILITY IS NOT AVAILABLE TO THE NEW FIRE ALARM DEVICES LOCATED ABOVE THE CEILING/ATTIC SPACES, PROVIDE ACCESS PANELS TO THESE DEVICES, COORDINATE PRIOR TO THE EXECUTION OF WORK.
34. THE CONTRACTOR SHALL PROVIDE AS-BUILT SHOP DRAWINGS INDICATING CIRCUITING OF ALL DETECTOR AS AND OTHER DEVICES IN ALL THE BUILDINGS OF THIS PROJECT. AS-BUILT DRAWINGS SHALL BE STORED IN FIRE ALARM DOCUMENT CABINET INSTALLED ADJACENT TO FIRE ALARM CONTROL PANEL OR LOCATION APPROVED BY AUTHORITY HAVING JURISDICTION.
35. PROVIDE DOCUMENTATION CABINET TO BE INSTALLED PROXIMAL TO FACP (2022 NFPA 72, 7.7.2.1). ALL RECORD DOCUMENTATION SHALL BE STORED IN THE DOCUMENTATION CABINET (2022 NFPA 72 7.7.2.3). THE DOCUMENTATION CABINET TO BE PROMINENTLY LABELED "SYSTEM RECORD DOCUMENTS" (2022 NFPA 72 7.7.2.5).

EQUIPMENT ANCHORAGE NOTES

APPLICABLE CODE: 2022 CBC

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.17 THROUGH 1617A.1.20 & 1617A.1.23 AND ASCE 7-16 CHAPTERS 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING AND DUCTWORK DISTRIBUTION SYSTEM BRACING NOTES

APPLICABLE CODE: 2022 CBC

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7 SECTION 13.3 AS DEFINED IN ASCE 7 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25, AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. THE MEP DESIGN PROFESSIONAL ENGINEER RESPONSIBLE FOR CONTENT ON THESE SHEETS HAS VERIFIED THAT THE DESIGN METHODS IDENTIFIED BELOW ARE IN ACCORDANCE WITH DSA IR 16-13

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP	MD	PP	E	
☐	☐	☐	☒	OPTION 1: PROJECT- SPECIFIC DESIGN.
☐	☐	☐	☐	OPTION 2: DESIGN BASED ON OSHPD OPM, WITHIN PROJECT SUBMITTAL
☐	☐	☐	☐	OPTION 3: DESIGN BASED ON OSHPD OPM, DEFERRED SUBMITTAL

GOVERNING CODES & APPLICABLE STANDARDS

TITLE 24 CODES:

1. 2025 CALIFORNIA BUILDING STANDARD ADMINISTRATIVE CODE (CAC), (PART 1, TITLE 24, CCR).
2. 2022 CALIFORNIA BUILDING CODE (CBC), VOLUMES 1 AND 2 (PART 2, TITLE 24, CCR). (2021 EDITION INTERNATIONAL BUILDING CODE WITH 2022 CALIFORNIA AMENDMENTS.)
3. 2022 CALIFORNIA ELECTRICAL CODE, (PART 3, TITLE 24, CCR). (2020 EDITION NATIONAL ELECTRICAL CODE WITH 2022 CALIFORNIA AMENDMENTS).
4. 2022 CALIFORNIA MECHANICAL CODE (CMC), (PART 4, TITLE 24, CCR). (2021 EDITION IAPMO UNIFORM MECHANICAL CODE WITH 2022 CALIFORNIA AMENDMENTS).
5. 2022 CALIFORNIA PLUMBING CODE (CPC), (PART 5, TITLE 24, CCR). (2021 EDITION IAPMO UNIFORM PLUMBING CODE WITH 2022 CALIFORNIA AMENDMENTS).
6. 2022 CALIFORNIA ENERGY CODE, (PART 6, TITLE 24, CCR). (2022 EDITION CALIFORNIA ENERGY COMMISSION BUILDING ENERGY EFFICIENCY STANDARDS).
7. 2022 CALIFORNIA FIRE CODE (CFC), (PART 9, TITLE 24, CCR). (2021 EDITION INTERNATIONAL FIRE CODE WITH 2022 CALIFORNIA AMENDMENTS).
8. 2022 CALIFORNIA REFERENCE CODE, (PART 12, TITLE 24. CCR).

REFERENCE CODE SECTIONS FOR APPLICABLE STANDARDS:

1. 2022 CBC, CHAPTER 35.
2. 2022 CFC, CHAPTER 80.
3. 2022 NFPA 72. AS AMENDED.

FIRE ALARM MONITORING NOTE

AUTOMATIC FIRE ALARM SYSTEMS SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72 AS AMENDED BY ARTICLE 91. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX OR UUJS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011. SUPERVISION OF SYSTEM AND LEASED TELEPHONE LINES SHALL BE ARRANGED BY DISTRICT.

SCOPE OF WORK AND BUILDING INFORMATION

1. SCOPE OF THIS PROJECT IS TO PROVIDE AND INSTALL A NEW FIRE ALARM SYSTEM TO COVER THE CONSTRUCTION OF NEW CONTINUATION HIGH SCHOOL. THIS INCLUDES NEW INITIATION AND NOTIFICATION APPLIANCES FOR A FULLY FUNCTIONING VOICE EVACUATION FIRE ALARM SYSTEM.

OCCUPANCY CLASSIFICATION: E, B

TYPE OF CONSTRUCTION: V-B

NUMBER OF STORIES: 1 STORY

SPRINKLER PROTECTION: YES

ALTERNATIVE PROTECTION: N/A

TYPE OF SYSTEM: MANUAL, AUTOMATIC VOICE EVACUATION FIRE ALARM SYSTEM

FIRE ALARM SHEET INDEX

SHEET NUMBER	SHEET NAME
FA-001	FIRE ALARM LEGENDS, ABBREVIATIONS AND NOTES
FA-003	FIRE ALARM BATTERY CALCULATIONS
FA-004	FIRE ALARM RISER DIAGRAM
FA-101	FIRE ALARM SITE PLAN
FA-211	FIRE ALARM - REFLECTED CEILING PLAN
FA-801	FIRE ALARM DETAILS
FA-802	FIRE ALARM DETAILS AND SEQUENCE OF OPERATIONS

FIRE ALARM DEVICE LEGEND

SYMBOL	QTY	IS EXISTING	MANUFACTURER	PART NO	DESCRIPTION	CSFM
FACU	1	NEW	NOTIFIER	N16E	INTELLIGENT FIRE ALARM PANEL WITH ONE SLC LOOP, 10" TOUCHSCREEN DISPLAY, 4 NACS, AND POWER SUPPLY IN A BLACK ENCLOSURE. (35 LBS.)	7165-0028.0516
NAC	1	NEW	NOTIFIER	PSE-6	6.0 A, 120 VAC REMOTE CHARGER POWER SUPPLY IN A LOCKABLE METAL ENCLOSURE (24 LBS.)	7315-0028.0513
CELL	1	NEW	HONEYWELL	HW-TG7FS-V	CLSS 5G/LTE-M FIRE COMMUNICATOR FOR VERIZON	7300-1402.0504
AIM	2	NEW	NOTIFIER	FMM-1	ADDRESSABLE MONITOR MODULE W/ FLASHSCAN, SUPERVISES CLASS A OR CLASS B OF DRY CONTACT INPUT	7300-0028.0219
AOM	15	NEW	NOTIFIER	FRM-1	ADDRESSABLE RELAY MODULE W/ FLASHSCAN, 2 FORM-C DRY CONTACTS	7300-0028.0219
F	1	NEW	NOTIFIER	NBG-12LX	DUAL-ACTION ADDRESSABLE PULL STATION. INCLUDES KEY LOCKING FEATURE.	7150-0028.0199
S	15	NEW	NOTIFIER	DNR W/FSP-951R	INTELLIGENT NON-RELAY PHOTOELECTRIC DUCT DETECTOR/ FSP-951R. FLASHSCAN AND CLIP MODE.	3240-1653.0209 7272-0028.0503
S	53	NEW	NOTIFIER	FSP-951 W/B300-6	ADDRESSABLE LOW-PROFILE PHOTOELECTRIC SMOKE DETECTOR. FLASHSCAN ONLY.	7272-0028.0503 7300-1653.0109
H	6	NEW	NOTIFIER	FST-951 W/B300-6	LOW-PROFILE 135°F FIXED THERMAL SENSOR. FLASHSCAN ONLY.	7270-0028.0502 7300-1653.0109
H	1	NEW	NOTIFIER	FST-951H W/B300-6	LOW-PROFILE INTELLIGENT 190°F/88°C FIXED THERMAL SENSOR. FLASHSCAN ONLY.	7272-0028.0206
	16	NEW	SYSTEM SENSOR	SWLED	STROBE, WALL, WHITE	7300-1653.0525
C	21	NEW	SYSTEM SENSOR	SPSCWLED	2-WIRE, SPEAKER STROBE LED WHITE CEILING	7135-1653.0532
WP	14	NEW	SYSTEM SENSOR	SPSRKLED	2-WIRE, SPEAKER STROBE LED RED WALL, OUTDOOR	7135-1653.0538
DOC	1	NEW	SPACE AGE ELECTRONICS	SSU00689	FIRE ALARM DOCUMENT BOX	7300-0553.0110
FATC	1	NEW	SPACE AGE ELECTRONICS	SSU00647	FIRE ALARM ACCESSORY CABINET, 18.25" 18.25" 5.5"	7300-0553.0110
					ADDITIONAL ASSEMBLY COMPONENTS AND HARDWARE	
FACU	1	NEW	NOTIFIER	CPU-N16LD	N16X WITH DISPLAY. INTELLIGENT FIRE ALARM WITH ONE SLC LOOP, 10" TOUCHSCREEN DISPLAY, 4 NACS, AND POWER SUPPLY; CHASSIS MOUNTED FOR USE IN A CAB-5 SERIES CABINET.	7165-0028.0516
	1	NEW	NOTIFIER	DAA2-5070	120 VAC DIGITAL AUDIO AMPLIFIER (50 W, 70VRMS), MAX ALARM CURRENT	7165-0028.0224
	1	NEW	NOTIFIER	DVC-EM	DIGITAL VOICE COMMAND, EXTENDED MEMORY	7165-0028.0516
	1	NEW	NOTIFIER	PMB-AUX	ADDRESSABLE POWER SUPPLY/BATTERY CHARGER	
	1	NEW	NOTIFIER	SLM-318	SIGNALING LINE MODULE PROVIDES A SIGNALING LINE CIRCUIT OF 159 ADDRESSABLE POINTS. ADD SLM-318 UNITS TO EXPAND SLC CAPABILITY. SEE DN-62115.	
	1	NEW	NOTIFIER	CSA-M	DVC CHASSIS, SINGLE ROW FOR MOUNTING DVC, MICROPHONE AND FIREFIGHTER'S TELEPHONE. INCLUDES: WELL, MIC-1 AND HARDWARE. ORDER TELH-1 SEPARATELY. FOR CAB-5	
	1	NEW	NOTIFIER	DR-CS	DOOR ASSEMBLY, WINDOW, THREE TIERS, BLACK, 20.75 LBS.	
NAC	1	NEW	NOTIFIER	PSE-6 MAIN BOARD	FIRE ALARM POWER SUPPLY MAIN BOARD	7315-0028.0513
FATC	6	NEW	NOTIFIER	FMM-1	ADDRESSABLE MONITOR MODULE W/ FLASHSCAN, SUPERVISES CLASS A OR CLASS B OF DRY CONTACT INPUT	7300-0028.0219

FIRE ALARM CABLE SCHEDULE

TYPE	DESCRIPTION		JACKET COAT	SERVES	ENVIRONMENT USE	NOTES
A	2#16 UTP	FPLR, SOLID	RED/BLK	SLC INTELLIGENT LOOP	INTERIOR	
B	2#14 UTP	FPLR, SOLID	RED/BLK	NAC STROBE	INTERIOR	
C	2#16 STP	FPLR, SOLID	RED/BLK	VOICE (SPEAKER)	INTERIOR	
D	2#16 UTP	FPLR, SOLID	RED/BLK	IDC CIRCUIT	INTERIOR	
E	4#16 UTP	FPLR, SOLID	RED/BLK	FAA RS485 COMM	INTERIOR	
P	2#14 UTP	FPLR, SOLID	RED/BLK	24VDC POWER	INTERIOR	
S	4#16 UTP	FPLR, SOLID	RED/BLK	SBUS	INTERIOR	
AU	2#16 UTP	WP#AQ225	RED/BLK	SLC ADDRESS LOOP	EXTERIOR/UDGND	DIRECT BURIAL CABLE
BU	2#14 UTP	WP#AQ226	RED/BLK	NAC STROBE (VISUAL)	EXTERIOR/UDGND	DIRECT BURIAL CABLE
CU	2#14 STP	WP#AQ294	RED/BLK	NAC VOICE (VISUAL)	EXTERIOR/UDGND	DIRECT BURIAL CABLE
DU	2#16 UTP	WP#AQ225	RED/BLK	INITIATE DEVICE CIRCUIT	EXTERIOR/UDGND	DIRECT BURIAL CABLE
EU	4#16 UTP	WP#AQ225	RED/BLK	FAA RS485 COMM	EXTERIOR/UDGND	DIRECT BURIAL CABLE
PU	2#14 UTP	WP#AQ226	RED/BLK	24VDC POWER	EXTERIOR/UDGND	DIRECT BURIAL CABLE
RU	2#16 UTP	WP#AQ225	RED/BLK	SPEAKER RISER	EXTERIOR/UDGND	DIRECT BURIAL CABLE

NOTES:
1. ALL CONDUCTORS SHALL BE COPPER AND SOLID - STRANDED CONDUCTOR IS NOT ACCEPTABLE.
2. MINIMUM CONDUIT SIZE IS 3/4" - CONCEALED IN CEILING SPACE OR APPROPRIATE WALLS.
3. ALL SURFACE ROUTED RACEWAYS SHALL BE WIREMOLD OR APPROVED EQUAL.

CABLE ABBREVIATIONS:

STP	SHIELDED TWISTED PAIR	PA	PUBLIC ADDRESS
SLC	SIGNAL LINE CIRCUIT	UTP	UNSHIELDED TWISTED PAIR
NAC	NOTIFICATION APPLIANCE CIRCUIT	WP	WEST PENN (CABLE MANUFACTURER)
IDC	INITIATE DEVICE CIRCUIT		

DEVICE DESIGNATION LEGEND

INITIATING DEVICES

EXAMPLE: L1D001

- L1D001
- DEVICE REFERENCE NUMBER
- DEVICE TYPE — D = DETECTORS, M = MODULES
- SIGNALING LINE CIRCUIT
- DEVICE SYMBOL (SMOKE SENSOR)

AUDIBLE / VISUAL DEVICES

EXAMPLE: 110CD, N1-1-1

- APPLIANCE CANDELA RATING
- APPLIANCE REFERENCE NUMBER
- CIRCUIT REFERENCE NUMBER
- FACP/POWER SUPPLY REFERENCE NUMBER
- DEVICE SYMBOL (SMOKE SENSOR)

PATHWAY SURVIVABILITY STYLE:4
PATHWAY CLASS:B

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125726 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 04/28/2026

SGPA
ARCHITECTURE AND PLANNING
3111 CAMINO DEL RIO NORTH, STUDIO 500
SAN DIE

P1 N2 LUMP SUM REPORT	CURRENT SUMMARY		POWER SUMMARY	
	MAX. CIRCUIT CURRENT (A):	1.50	STARTING CALC. VOLTAGE:	20.40
	TOTAL CIRCUIT CURRENT (A):	0.428	MAX. VOLTAGE DROP:	0.60
	SPARE CIRCUIT CURRENT (A):	1.07	VOLTAGE DROP %:	**2.93 %**
	SPARE CIRCUIT CURRENT %:	**71.47 %**	MIN. OPERATIONAL VOLTAGE:	16
	MAX. CARD CURRENT (A):	6	END OF LINE VOLTAGE:	19.80
	TOTAL CARD CURRENT (A):	1.60	WIRE RESISTANCE (Ω/KFT):	3.07
	SPARE CARD CURRENT (A):	4.40	TOTAL CIRCUIT LENGTH (FT):	228
	SPARE CARD CURRENT %:	**73.38 %**	TOTAL CIRCUIT RESISTANCE (Ω):	1.40

CIRCUIT WIRING PROPERTIES: 'V' 14/2 FPLP/R NAC 14 AWG, 2 COND. SOLID COPPER FPLP/R ANALOG UNSHIELDED
DISTANCE MEASURED USING DRAWN SEGMENT LENGTHS WITH 10.00 % ADDITIONAL LENGTH CALCULATED

SYMBOL	QUANTITY	PART NO	DESCRIPTION	CANDELAS	ALARM CURRENT (A)	TOTAL CURRENT (A)
C	2	SPSCWLED	2-WIRE, SPEAKER STROBE LED WHITE CEILING	15CD	0.018	0.036
C	2	SPSCWLED	2-WIRE, SPEAKER STROBE LED WHITE CEILING	30CD	0.022	0.044
C	1	SPSCWLED	2-WIRE, SPEAKER STROBE LED WHITE CEILING	75CD	0.07	0.07
WP	2	SPSRKLED	2-WIRE, SPEAKER STROBE LED RED WALL, OUTDOOR	110CD	0.085	0.17
	6	SWLED	STROBE, WALL, WHITE	15CD	0.018	0.108

CALCULATION METHODS:
TOTAL RESISTANCE (Ω) = WIRE RESISTANCE (Ω/FT) X 2 X TOTAL CIRCUIT LENGTH (FT)
TOTAL VOLTAGE DROP = TOTAL RESISTANCE (Ω) X TOTAL CIRCUIT CURRENT (A)

P1 N3 LUMP SUM REPORT	CURRENT SUMMARY		POWER SUMMARY	
	MAX. CIRCUIT CURRENT (A):	1.50	STARTING CALC. VOLTAGE:	20.40
	TOTAL CIRCUIT CURRENT (A):	0.5350	MAX. VOLTAGE DROP:	1.09
	SPARE CIRCUIT CURRENT (A):	0.9650	VOLTAGE DROP %:	**5.36 %**
	SPARE CIRCUIT CURRENT %:	**64.33 %**	MIN. OPERATIONAL VOLTAGE:	16
	MAX. CARD CURRENT (A):	6	END OF LINE VOLTAGE:	19.31
	TOTAL CARD CURRENT (A):	1.60	WIRE RESISTANCE (Ω/KFT):	3.07
	SPARE CARD CURRENT (A):	4.40	TOTAL CIRCUIT LENGTH (FT):	333
	SPARE CARD CURRENT %:	**73.38 %**	TOTAL CIRCUIT RESISTANCE (Ω):	2.04

CIRCUIT WIRING PROPERTIES: 'V' 14/2 FPLP/R NAC 14 AWG, 2 COND. SOLID COPPER FPLP/R ANALOG UNSHIELDED
DISTANCE MEASURED USING DRAWN SEGMENT LENGTHS WITH 10.00 % ADDITIONAL LENGTH CALCULATED

SYMBOL	QUANTITY	PART NO	DESCRIPTION	CANDELAS	ALARM CURRENT (A)	TOTAL CURRENT (A)
C	4	SPSCWLED	2-WIRE, SPEAKER STROBE LED WHITE CEILING	75CD	0.07	0.28
WP	3	SPSRKLED	2-WIRE, SPEAKER STROBE LED RED WALL, OUTDOOR	110CD	0.085	0.255

CALCULATION METHODS:
TOTAL RESISTANCE (Ω) = WIRE RESISTANCE (Ω/FT) X 2 X TOTAL CIRCUIT LENGTH (FT)
TOTAL VOLTAGE DROP = TOTAL RESISTANCE (Ω) X TOTAL CIRCUIT CURRENT (A)

P2 N1 LUMP SUM REPORT	CURRENT SUMMARY		POWER SUMMARY	
	MAX. CIRCUIT CURRENT (A):	3	STARTING CALC. VOLTAGE:	20.40
	TOTAL CIRCUIT CURRENT (A):	0.620	MAX. VOLTAGE DROP:	1.02
	SPARE CIRCUIT CURRENT (A):	2.38	VOLTAGE DROP %:	**5.00 %**
	SPARE CIRCUIT CURRENT %:	**79.33 %**	MIN. OPERATIONAL VOLTAGE:	16
	MAX. CARD CURRENT (A):	n/a	END OF LINE VOLTAGE:	19.38
	TOTAL CARD CURRENT (A):	1.14	WIRE RESISTANCE (Ω/KFT):	3.07
	SPARE CARD CURRENT (A):		TOTAL CIRCUIT LENGTH (FT):	268
	SPARE CARD CURRENT %:		TOTAL CIRCUIT RESISTANCE (Ω):	1.64

CIRCUIT WIRING PROPERTIES: 'V' 14/2 FPLP/R NAC 14 AWG, 2 COND. SOLID COPPER FPLP/R ANALOG UNSHIELDED
DISTANCE MEASURED USING DRAWN SEGMENT LENGTHS WITH 10.00 % ADDITIONAL LENGTH CALCULATED

SYMBOL	QUANTITY	PART NO	DESCRIPTION	CANDELAS	ALARM CURRENT (A)	TOTAL CURRENT (A)
C	3	SPSCWLED	2-WIRE, SPEAKER STROBE LED WHITE CEILING	75CD	0.07	0.21
WP	4	SPSRKLED	2-WIRE, SPEAKER STROBE LED RED WALL, OUTDOOR	110CD	0.085	0.34
	1	SWLED	STROBE, WALL, WHITE	75CD	0.07	0.07

CALCULATION METHODS:
TOTAL RESISTANCE (Ω) = WIRE RESISTANCE (Ω/FT) X 2 X TOTAL CIRCUIT LENGTH (FT)
TOTAL VOLTAGE DROP = TOTAL RESISTANCE (Ω) X TOTAL CIRCUIT CURRENT (A)

P2 N2 LUMP SUM REPORT	CURRENT SUMMARY		POWER SUMMARY	
	MAX. CIRCUIT CURRENT (A):	3	STARTING CALC. VOLTAGE:	20.40
	TOTAL CIRCUIT CURRENT (A):	0.5230	MAX. VOLTAGE DROP:	0.720
	SPARE CIRCUIT CURRENT (A):	2.48	VOLTAGE DROP %:	**3.52 %**
	SPARE CIRCUIT CURRENT %:	**82.57 %**	MIN. OPERATIONAL VOLTAGE:	16
	MAX. CARD CURRENT (A):	n/a	END OF LINE VOLTAGE:	19.68
	TOTAL CARD CURRENT (A):	1.14	WIRE RESISTANCE (Ω/KFT):	3.07
	SPARE CARD CURRENT (A):		TOTAL CIRCUIT LENGTH (FT):	224
	SPARE CARD CURRENT %:		TOTAL CIRCUIT RESISTANCE (Ω):	1.37

CIRCUIT WIRING PROPERTIES: 'V' 14/2 FPLP/R NAC 14 AWG, 2 COND. SOLID COPPER FPLP/R ANALOG UNSHIELDED
DISTANCE MEASURED USING DRAWN SEGMENT LENGTHS WITH 10.00 % ADDITIONAL LENGTH CALCULATED

SYMBOL	QUANTITY	PART NO	DESCRIPTION	CANDELAS	ALARM CURRENT (A)	TOTAL CURRENT (A)
C	1	SPSCWLED	2-WIRE, SPEAKER STROBE LED WHITE CEILING	15CD	0.018	0.018
C	1	SPSCWLED	2-WIRE, SPEAKER STROBE LED WHITE CEILING	30CD	0.022	0.022
C	2	SPSCWLED	2-WIRE, SPEAKER STROBE LED WHITE CEILING	75CD	0.07	0.14
WP	3	SPSRKLED	2-WIRE, SPEAKER STROBE LED RED WALL, OUTDOOR	110CD	0.085	0.255
	1	SWLED	STROBE, WALL, WHITE	15CD	0.018	0.018
	1	SWLED	STROBE, WALL, WHITE	75CD	0.07	0.07

CALCULATION METHODS:
TOTAL RESISTANCE (Ω) = WIRE RESISTANCE (Ω/FT) X 2 X TOTAL CIRCUIT LENGTH (FT)
TOTAL VOLTAGE DROP = TOTAL RESISTANCE (Ω) X TOTAL CIRCUIT CURRENT (A)

PANEL P2 (P5E-6) BATTERY CALCULATION (SECONDARY POWER SOURCE REQUIREMENTS)				STANDBY CURRENT		SECONDARY ALARM CURRENT	
PANEL COMPONENTS	QTY	PART NO.	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
	1	PSE-6	6.0 A, 120 VAC REMOTE CHARGER POWER SUPPLY IN A LOCKABLE METAL ENCLOSURE	0	0	0	0
	1	PSE-6 MAIN BOARD	FIRE ALARM POWER SUPPLY MAIN BOARD	0.139	0.139	0.157	0.157

CIRCUIT	MAX CARD AMPS	USED CARD AMPS	SPARE CARD AMPS	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
P2-N1	N/A	1.143000		C	3	SPSCWLED	2-WIRE, SPEAKER STROBE LED WHITE CEILING 75CD	0	0	0.07	0.21
				WP	4	SPSRKLED	2-WIRE, SPEAKER STROBE LED RED WALL, OUTDOOR 110CD	0	0	0.085	0.34
					1	SWLED	STROBE, WALL, WHITE 75CD	0	0	0.07	0.07
P2-N2				C	1	SPSCWLED	2-WIRE, SPEAKER STROBE LED WHITE CEILING 15CD	0	0	0.018	0.018
				C	1	SPSCWLED	2-WIRE, SPEAKER STROBE LED WHITE CEILING 30CD	0	0	0.022	0.022
				C	2	SPSCWLED	2-WIRE, SPEAKER STROBE LED WHITE CEILING 75CD	0	0	0.07	0.14
				WP	3	SPSRKLED	2-WIRE, SPEAKER STROBE LED RED WALL, OUTDOOR 110CD	0	0	0.085	0.255
					1	SWLED	STROBE, WALL, WHITE 15CD	0	0	0.018	0.018
					1	SWLED	STROBE, WALL, WHITE 75CD	0	0	0.07	0.07
								TOTAL STANDBY (A)	0.139	TOTAL ALARM (A)	1.30
								REQUIRED STANDBY TIME (HOURS)		24	
								REQUIRED ALARM TIME (MINUTES)		15	
SECONDARY STANDBY LOAD (A)					0.139			24		3.34	
SECONDARY ALARM LOAD (A)					1.30			0.25		0.325	
STANDBY AND ALARM SUBTOTAL (AMP HOURS)								3.66			
DERATING FACTOR								1.25			
SECONDARY LOAD REQUIREMENTS (AMP HOURS)								4.58			
PROVIDE (2) 12V 7AH BATTERIES											
*BATTERY BOX SIZE CAPACITY NOT SPECIFIED. REFER TO MANUFACTURER DOCUMENTATION.											

P1 AUX1 LUMP SUM REPORT	CURRENT SUMMARY		POWER SUMMARY	
	MAX. CIRCUIT CURRENT (A):	1.50	STARTING CALC. VOLTAGE:	20.40
	TOTAL CIRCUIT CURRENT (A):	0.14	MAX. VOLTAGE DROP:	0
	SPARE CIRCUIT CURRENT (A):	1.36	VOLTAGE DROP %:	.01 %
	SPARE CIRCUIT CURRENT %:	**90.67 %**	MIN. OPERATIONAL VOLTAGE:	16
	MAX. CARD CURRENT (A):	6	END OF LINE VOLTAGE:	20.40
	TOTAL CARD CURRENT (A):	1.60	WIRE RESISTANCE (Ω/KFT):	3.07
	SPARE CARD CURRENT (A):	4.40	TOTAL CIRCUIT LENGTH (FT):	1
	SPARE CARD CURRENT %:	**73.38 %**	TOTAL CIRCUIT RESISTANCE (Ω):	0.008443

CIRCUIT WIRING PROPERTIES: 'F' 14/2 FPLP/R AUX 14 AWG, 2 COND. SOLID COPPER FPLP/R UNSHIELDED
DISTANCE MEASURED USING DRAWN SEGMENT LENGTHS WITH 10.00 % ADDITIONAL LENGTH CALCULATED

SYMBOL	QUANTITY	PART NO	DESCRIPTION	CANDELAS	ALARM CURRENT (A)	TOTAL CURRENT (A)
CELL	1	HW-TG7FS-V	CLSS 5G/LTE-M FIRE COMMUNICATOR FOR VERIZON		0.14	0.14

CALCULATION METHODS:
TOTAL RESISTANCE (Ω) = WIRE RESISTANCE (Ω/FT) X 2 X TOTAL CIRCUIT LENGTH (FT)
TOTAL VOLTAGE DROP = TOTAL RESISTANCE (Ω) X TOTAL CIRCUIT CURRENT (A)

P1 N1 LUMP SUM REPORT	CURRENT SUMMARY		POWER SUMMARY	
	MAX. CIRCUIT CURRENT (A):	1.50	STARTING CALC. VOLTAGE:	20.40
	TOTAL CIRCUIT CURRENT (A):	0.494	MAX. VOLTAGE DROP:	0.690
	SPARE CIRCUIT CURRENT (A):	1.01	VOLTAGE DROP %:	**3.40 %**
	SPARE CIRCUIT CURRENT %:	**67.07 %**	MIN. OPERATIONAL VOLTAGE:	16
	MAX. CARD CURRENT (A):	6	END OF LINE VOLTAGE:	19.71
	TOTAL CARD CURRENT (A):	1.60	WIRE RESISTANCE (Ω/KFT):	3.07
	SPARE CARD CURRENT (A):	4.40	TOTAL CIRCUIT LENGTH (FT):	229
	SPARE CARD CURRENT %:	**73.38 %**	TOTAL CIRCUIT RESISTANCE (Ω):	1.40

CIRCUIT WIRING PROPERTIES: 'V' 14/2 FPLP/R NAC 14 AWG, 2 COND. SOLID COPPER FPLP/R ANALOG UNSHIELDED
DISTANCE MEASURED USING DRAWN SEGMENT LENGTHS WITH 10.00 % ADDITIONAL LENGTH CALCULATED

SYMBOL	QUANTITY	PART NO	DESCRIPTION	CANDELAS	ALARM CURRENT (A)	TOTAL CURRENT (A)
C	2	SPSCWLED	2-WIRE, SPEAKER STROBE LED WHITE CEILING	15CD	0.018	0.036
C	1	SPSCWLED	2-WIRE, SPEAKER STROBE LED WHITE CEILING	30CD	0.022	0.022
C	2	SPSCWLED	2-WIRE, SPEAKER STROBE LED WHITE CEILING	75CD	0.07	0.14
WP	2	SPSRKLED	2-WIRE, SPEAKER STROBE LED RED WALL, OUTDOOR	110CD	0.085	0.17
	7	SWLED	STROBE, WALL, WHITE	15CD	0.018	0.126

CALCULATION METHODS:
TOTAL RESISTANCE (Ω) = WIRE RESISTANCE (Ω/FT) X 2 X TOTAL CIRCUIT LENGTH (FT)
TOTAL VOLTAGE DROP = TOTAL RESISTANCE (Ω) X TOTAL CIRCUIT CURRENT (A)

PANEL P1 (N16E) BATTERY CALCULATION (SECONDARY POWER SOURCE REQUIREMENTS)				STANDBY CURRENT		SECONDARY ALARM CURRENT	
PANEL COMPONENTS	QTY	PART NO.	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
	1	N16E	INTELLIGENT FIRE ALARM PANEL WITH ONE SLC LOOP, 10" TOUCHSCREEN DISPLAY, 4 NACS, AND POWER SUPPLY IN A BLACK ENCLOSURE.	0	0	0	0
	1	C5A-M	DVC CHASSIS, SINGLE ROW FOR MOUNTING DVC, MICROPHONE AND FIREFIGHTER'S TELEPHONE. INCLUDES: WELL, MIC-1 AND HARDWARE. ORDER TELH-1 SEPARATELY. FOR CAB-5	0	0	0	0
	1	CPU-N16LD	N16X WITH DISPLAY, INTELLIGENT FIRE ALARM WITH ONE SLC LOOP, 10" TOUCHSCREEN DISPLAY, 4 NACS, AND POWER SUPPLY; CHASSIS MOUNTED FOR USE IN A CAB-5 SERIES CABINET.	0.269	0.269	0.279	0.279
	1	DAA2-5070	120 VAC DIGITAL AUDIO AMPLIFIER (50 W, 70VRMS), MAX ALARM CURRENT	0.4	0.4	3.75	3.75
	1	DR-C4	DOOR ASSEMBLY, WINDOW, THREE TIERS, BLACK, 20.75 LBS.	0	0	0	0
	1	DVC-EM	DIGITAL VOICE COMMAND, EXTENDED MEMORY	0.3	0.3	0.3	0.3
	1	PMB-AUX	ADDRESSABLE POWER SUPPLY/BATTERY CHARGER	0.096	0.096	0.11	0.11
	1	SLM-318	SIGNALING LINE MODULE PROVIDES A SIGNALING LINE CIRCUIT OF 159 ADDRESSABLE POINTS. ADD SLM-318 UNITS TO EXPAND SLC CAPABILITY. SEE DN-6211S.	0.159	0.159	0.276	0.276

CIRCUIT	MAX CARD AMPS	USED CARD AMPS	SPARE CARD AMPS	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
P1-S1	N/A	0.000000		C	9	SPSCWLED	2-WIRE, SPEAKER STROBE LED WHITE CEILING 0.25W	0	0	0	0
				C	12	SPSCWLED	2-WIRE, SPEAKER STROBE LED WHITE CEILING 0.5W	0	0	0	0
				WP	14	SPSRKLED	2-WIRE, SPEAKER STROBE LED RED WALL, OUTDOOR 1W	0	0	0	0
P1-AUX1				CELL	1	HW-TG7FS-V	CLSS 5G/LTE-M FIRE COMMUNICATOR FOR VERIZON	0.14	0.14	0.14	0.14
P1-N1	6	1.597000	4.403000	C	2	SPSCWLED	2-WIRE, SPEAKER STROBE LED WHITE CEILING 15CD	0	0	0.018	0.036
				C	1	SPSCWLED	2-WIRE, SPEAKER STROBE LED WHITE CEILING 30CD	0	0	0.022	0.022
				C	2	SPSCWLED	2-WIRE, SPEAKER STROBE LED WHITE CEILING 75CD	0	0	0.07	0.14
				WP	2	SPSRKLED	2-WIRE, SPEAKER STROBE LED RED WALL, OUTDOOR 110CD	0	0	0.085	0.17
					7	SWLED	STROBE, WALL, WHITE 15CD	0	0	0.018	0.126
P1-N2				C	2	SPSCWLED	2-WIRE, SPEAKER STROBE LED WHITE CEILING 15CD	0	0	0.018	0.036
				C	2	SPSCWLED	2-WIRE, SPEAKER STROBE LED WHITE CEILING 30CD	0	0	0.022	0.044
				C	1	SPSCWLED	2-WIRE, SPEAKER STROBE LED WHITE CEILING 75CD	0	0	0.07	0.07
				WP	2	SPSRKLED	2-WIRE, SPEAKER STROBE LED RED WALL, OUTDOOR 110CD	0	0	0.085	0.17
					6	SWLED	STROBE, WALL, WHITE 15CD	0	0	0.018	0.108
P1-N3				C	4	SPSCWLED	2-WIRE, SPEAKER STROBE LED WHITE CEILING 75CD	0	0	0.07	0.28
				WP	3	SPSRKLED	2-WIRE, SPEAKER STROBE LED RED WALL, OUTDOOR 110CD	0	0	0.085	0.255
P1-L1	N/A	0.450000		S	15	DNR W/FSP-951R	INTELLIGENT NON-RELAY PHOTOELECTRIC DUCT DETECTOR/ FSP-951R, FLASHSCAN AND CLIP MODE.	0.0002	0.003	0.0045	0.0675
				AIM	2	FMM-1	ADDRESSABLE MONITOR MODULE W/ FLASHSCAN, SUPERVISES CLASS A OR CLASS B OF DRY CONTACT INPUT.	0.00035	0.0007	0.005	0.01
				ACM	15	FRM-1	ADDRESSABLE RELAY MODULE W/ FLASHSCAN, 2 FORM-C DRY CONTACTS	0.000255	0.003825	0.0065	0.0975
				S	53	FSP-951 W/B300-6	ADDRESSABLE LOW-PROFILE PHOTOELECTRIC SMOKE DETECTOR, FLASHSCAN ONLY.	0.0002	0.0106	0.0045	0.2385
				H	6	FST-951 W/B300-6	LOW-PROFILE 135°F FIXED THERMAL SENSOR, FLASHSCAN ONLY.	0.0002	0.0012	0.0045	0.027
				H	1	FST-951H W/B300-6	LOW-PROFILE INTELLIGENT 190°F/88°C FIXED THERMAL SENSOR. FLASHSCAN ONLY.	0.0002	0.0002	0.0045	0.0045
				F	1	NBG-12LX	DUAL-ACTION ADDRESSABLE PULL STATION. INCLUDES KEY LOCKING FEATURE.	0.000375	0.000375	0.005	0.005
				FATC	6	SSU00647	FIRE ALARM ACCESSORY CABINET, 18.25" 18.25" 5.5"	0	0	0	0
								TOTAL STANDBY (A)	1.38	TOTAL ALARM (A)	6.76
								REQUIRED STANDBY TIME (HOURS)		24	
								REQUIRED ALARM TIME (MINUTES)		15	
SECONDARY STANDBY LOAD (A)					1.38			24		33.21	
SECONDARY ALARM LOAD (A)					6.76			0.25		1.69	
STANDBY AND ALARM SUBTOTAL (AMP HOURS)								34.90			
DERATING FACTOR								1.25			
SECONDARY LOAD REQUIREMENTS (AMP HOURS)								43.63			
PROVIDE (2) 12V 55AH BATTERIES											
*BATTERY BOX SIZE CAPACITY NOT SPECIFIED. REFER TO MANUFACTURER DOCUMENTATION.											

1 FIRE ALARM BATTERY CALCULATIONS

SCALE: 1/8" = 1'-0"

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DRAWING SUBMITTAL SCHEDULE	
100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO: 22434-E-02

FIRE ALARM BATTERY CALCULATIONS

FA-003

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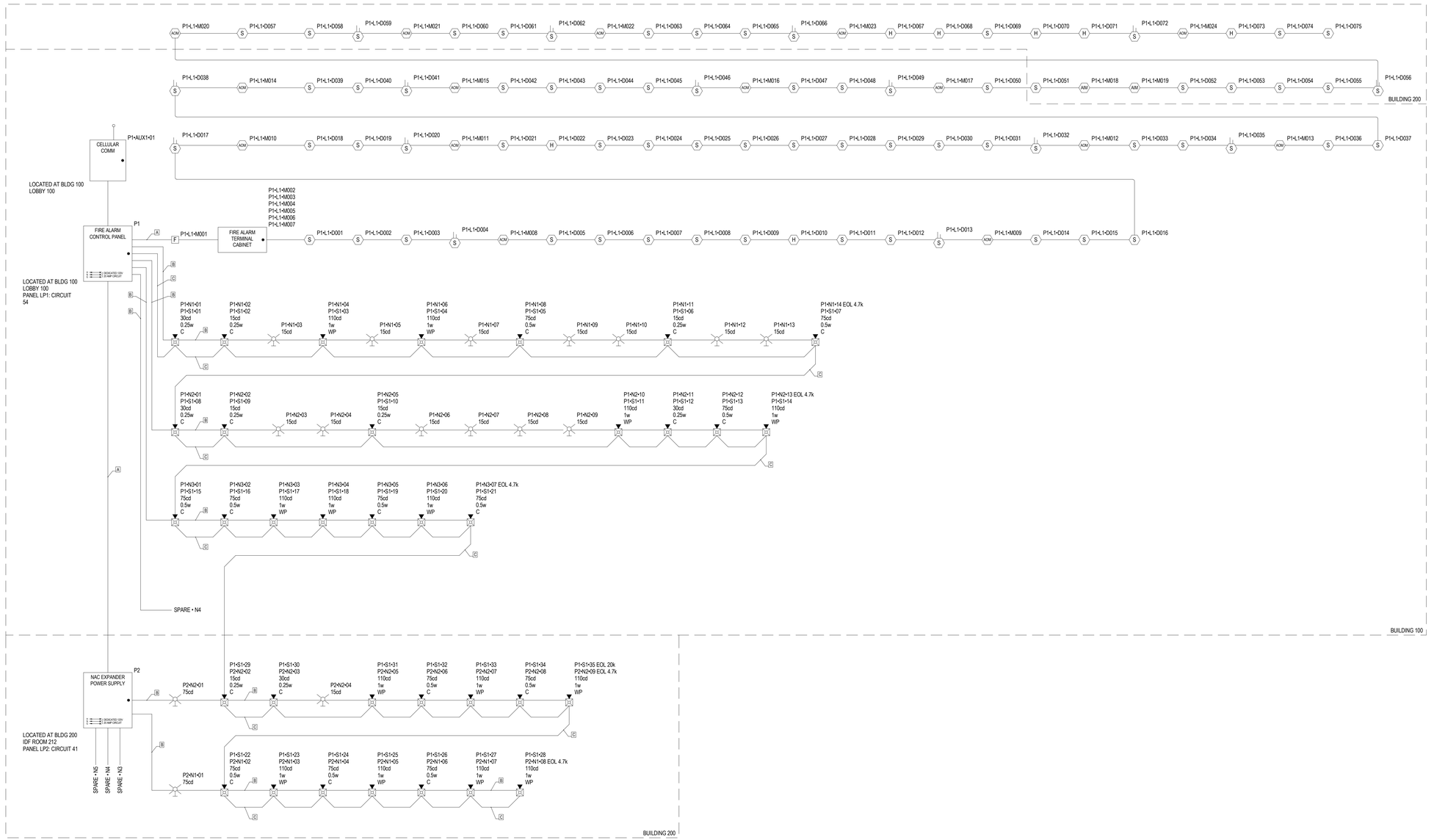

1 FIRE ALARM RISER DIAGRAM

SCALE: 1/8" = 1'-0"

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PROJECT NO: 22434-E-02

FIRE ALARM RISER DIAGRAM

FA-004

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GENERAL NOTES

A. FOR UNDERGROUND CONDUIT PATHWAYS, REFERENCE FIRE ALARM SITE PLAN.
B. UNDERGROUND CONDUITS SHALL BE SCH-40 PVC.

KEY NOTES

1 (N) VOICE EVACUATION FIRE ALARM CONTROL UNIT. PROVIDE A DEDICATED 120VAC/20A CIRCUIT. REFERENCE ELECTRICAL SHEETS FOR DEDICATED CIRCUIT INFORMATION.

2 (N) FIRE ALARM NAC REMOTE POWER SUPPLY. PROVIDE A DEDICATED 120VAC/20A CIRCUIT. REFERENCE ELECTRICAL SHEETS FOR DEDICATED CIRCUIT INFORMATION.

3 (N) FIRE ALARM MANUAL PULL STATION TO BE INSTALLED AT A CONSTANTLY ATTENDED LOCATION WHEN OCCUPIED. LOCATION SHALL BE APPROVED BY AHJ.

4 (N) UNDERGROUND PULL BOX WITH BASE EXTENSIONS AND LID. LID SHALL BE H20 TRAFFIC RATED AT ALL VEHICLE OR HIGH WEIGHT CAPACITY AREAS AND CONCRETE LID AT OTHER LOCATIONS. LIDS SHALL BE LABELED "SIGNAL" OR "COMMUNICATIONS". COORDINATE WITH TECHNOLOGY SITE PLAN FOR SHARED LOCATION.

5 (N) UNDERGROUND PULL BOX WITH BASE EXTENSIONS AND LID. LID SHALL BE H20 TRAFFIC RATED AT ALL VEHICLE OR HIGH WEIGHT CAPACITY AREAS AND CONCRETE LID AT OTHER LOCATIONS. LIDS SHALL BE LABELED "FIRE ALARM".

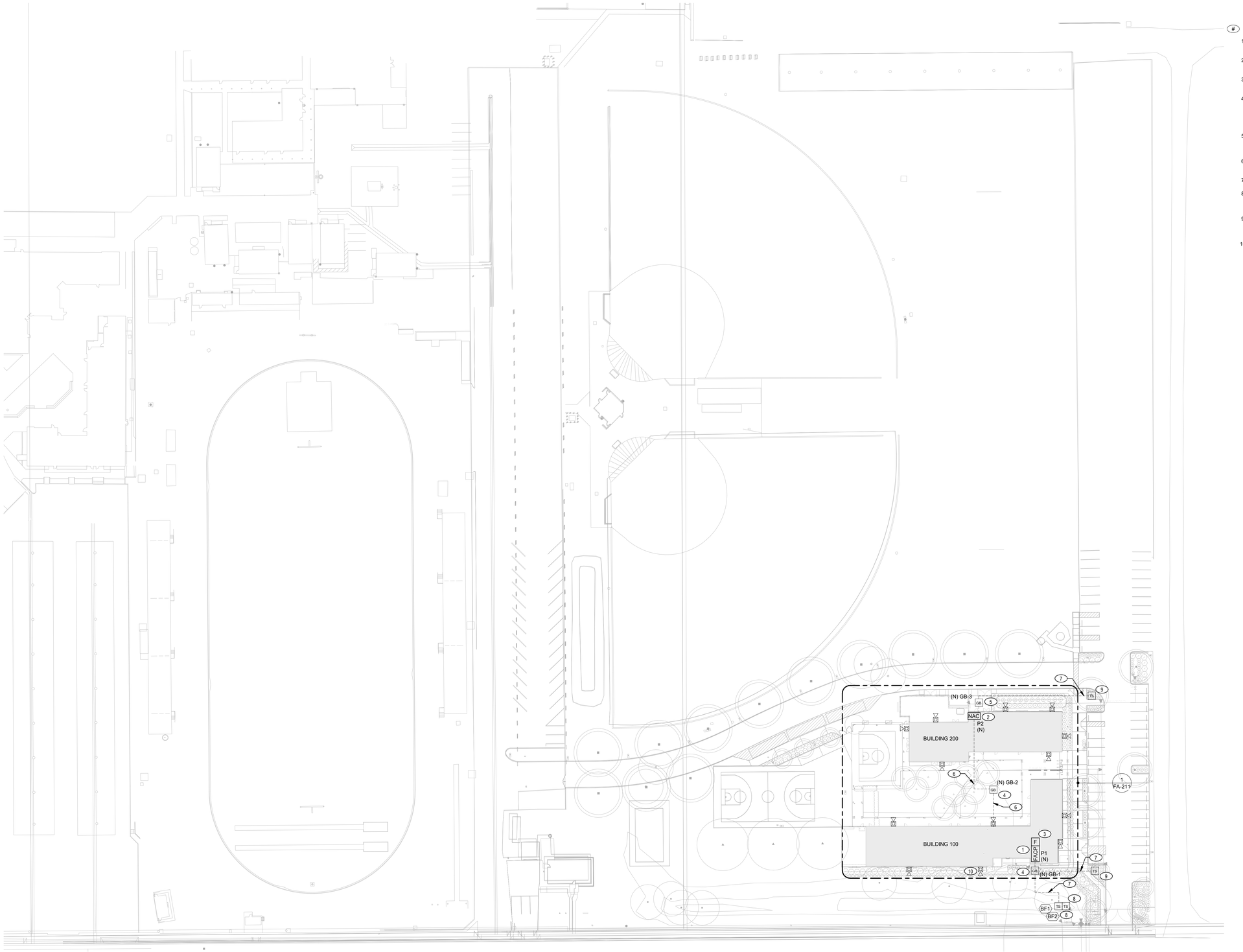
6 (N) 1 EA. 2" UNDERGROUND FIRE ALARM CONDUIT.
1. SLC
2. SPEAKER.

7 (N) 1 EA. 1" UNDERGROUND FIRE ALARM CONDUIT.
1. SLC.

8 BACKFLOW TAMPER SWITCHES ON EACH O.S&Y VALVE. CONNECT CIRCUITS TO BACKFLOW SWITCHES. MODULES LOCATED BY FIRE ALARM CONTROL UNIT IN LOBBY 100. SEE DETAIL13/FA-801 CONNECTION DETAIL.

9 TAMPER SWITCH ON POST INDICATOR VALVE. CONNECT CIRCUITS TO PIV SWITCH. MODULE LOCATED BY FIRE ALARM CONTROL UNIT IN LOBBY 100. SEE DETAIL 13/FA-801 CONNECTION DETAIL.

10 (N) EXTERIOR WEATHERPROOF WALL MOUNTED SPEAKER STROBE MOUNTED AT 80", TYP. UNO. REFERENCE MOUNTING DETAIL 1/FA-801.



1 **FIRE ALARM SITE PLAN**
SCALE: 1" = 40'-0"

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DWG V3	04/28/2026

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FIRE ALARM SITE PLAN

FA-101

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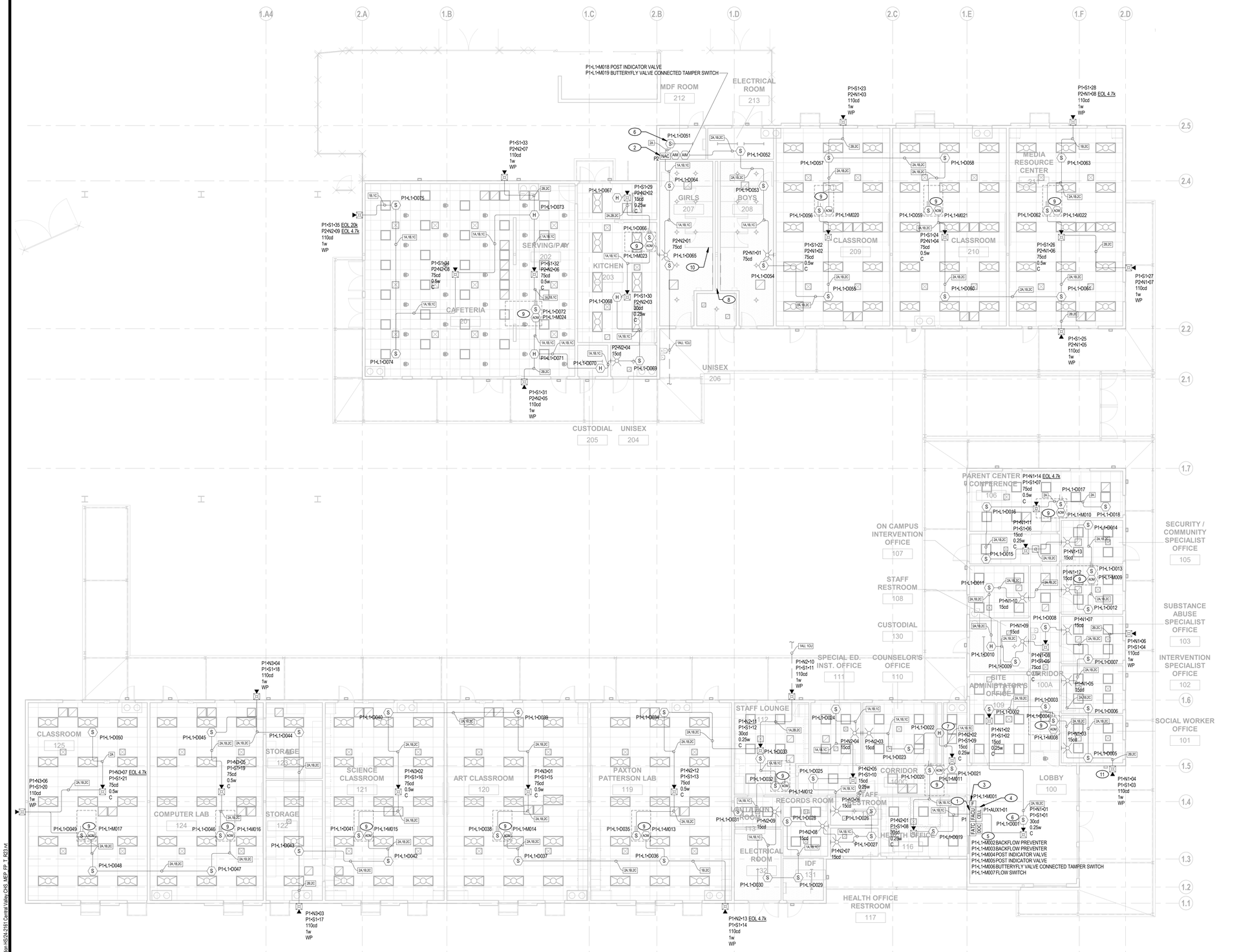

GENERAL NOTES

A. FOR UNDERGROUND CONDUIT PATHWAYS, REFERENCE FIRE ALARM SITE PLAN.
B. UNDERGROUND CONDUITS SHALL BE SCH-40 PVC.

KEY NOTES

#	
1	(N) VOICE EVACUATION FIRE ALARM CONTROL UNIT. PROVIDE A DEDICATED 120VAC/20A CIRCUIT. REFERENCE ELECTRICAL SHEETS FOR DEDICATED CIRCUIT INFORMATION.
2	(N) FIRE ALARM NAC REMOTE POWER SUPPLY. PROVIDE A DEDICATED 120VAC/20A CIRCUIT. REFERENCE ELECTRICAL SHEETS FOR DEDICATED CIRCUIT INFORMATION.
3	(N) FIRE ALARM MANUAL PULL STATION TO BE INSTALLED AT A CONSTANTLY ATTENDED LOCATION WHEN OCCUPIED. LOCATION SHALL BE APPROVED BY AHJ.
4	(N) DACT COMMUNICATOR SHALL PROVIDE COMMUNICATION METHODS FOR SUPERVISING STATION ALARM SYSTEM PER NFPA 26.6. DACT SHALL EMPLOY ONE TELEPHONE LINE (NUMBER) AND ONE OF THE FOLLOWING TRANSMISSION MEANS PER NFPA 72, 26.6.4.2.4. 1. ONE-WAY PRIVATE RADIO ALARM SYSTEM. 2. TWO-WAY RF MULTIPLEX SYSTEM. 3. TRANSMISSION MEANS COMPLYING WITH 26.6.3 4. A SECOND TELEPHONE LINE (NUMBER), WHERE ALL OF THE FOLLOWING ARE MET: A. ACCESS TO ONE OF THE TECHNOLOGIES IN 26.6.4.2.4.1(1). 26.6.4.2.4.1(2), OR 26.6.4.2.4.1(3) IS NOT AVAILABLE AT THE PROTECTED PREMISES. B. THE AUTHORITY HAVING JURISDICTION APPROVES THE ARRANGEMENT. C. THE DACT IS PROGRAMMED TO CALL A SECOND DACR LINE (NUMBER) WHEN THE SIGNAL TRANSMISSION SEQUENCE TO THE FIRST CALLED LINE (NUMBER) IS UNSUCCESSFUL. D. THE DACT IS CAPABLE OF SELECTING THE OPERABLE MEANS OF TRANSMISSION IN THE EVENT OF FAILURE OF THE OTHER MEANS. E. EACH TELEPHONE LINE IS TESTED IN ACCORDANCE WITH 26.6.4.2.4.2 OR AT ALTERNATING 6-HOUR INTERVALS.
5	(N) DOCUMENTATION CABINET SHALL BE INSTALLED AT SYSTEM CONTROL UNIT AND SHALL COMPLY WITH NFPA 72, SECTION 7.7.2. DOCUMENTATION CABINET SHALL BE PROMINENTLY LABELED 'SYSTEM RECORD DOCUMENTS'.
6	PER NFPA 72 10.4.5, AN AUTOMATIC SMOKE DETECTOR SHALL BE INSTALLED AT EACH NON-CONTINUOUSLY OCCUPIED LOCATION OF EACH CONTROL UNIT(S), NOTIFICATION APPLIANCE CIRCUIT POWER EXTENDER(S), AND SUPERVISING STATION TRANSMITTING EQUIPMENT TO PROVIDE NOTIFICATION OF FIRE AT THAT LOCATION.
7	PROVIDE ACCESS PANEL TO SERVICE AND MAINTAIN HEAT DETECTOR LOCATED IN THE PLUMBING CHASE. REFERENCE ACCESS PANEL DETAIL 2/FA-802. COORDINATE WITH OTHER DISCIPLINES EXACT LOCATION BEFORE INSTALLING.
8	PER NFPA 72 17.5.3.1.2 (4), DETECTORS SHALL NOT BE REQUIRED IN COMBUSTIBLE BLIND SPACES FORMED BY SETS OF FACING STUDS OR SOLID JOISTS IN WALLS, FLOORS, OR CEILINGS, WHERE THE DISTANCE BETWEEN THE FACING STUDS OR SOLID JOISTS IS LESS THAN 6".
9	CONNECT RELAY MODULE TO HVAC UNIT LOCATED ON ROOF FOR SHUTDOWN.
10	TOILET STALL PARTITION WALLS ARE NOT FULL HEIGHT. TOP OF PARTITION WALL IS 70" A.F.F.
11	(N) EXTERIOR WEATHERPROOF WALL MOUNTED SPEAKER STROBE MOUNTED AT 80", TYP. UNO. REFERENCE MOUNTING DETAIL 1/FA-801.

1 FIRE ALARM REFLECTED CEILING PLAN

SCALE: 1/8" = 1'-0"

0 40 80

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SHAFTER, CA 93263

DRAWING SUBMITTAL SCHEDULE	
100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO: 22434-E-02

FIRE ALARM - REFLECTED CEILING PLAN

FA-211

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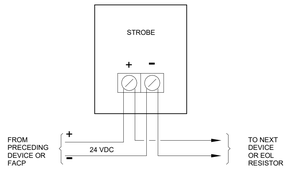
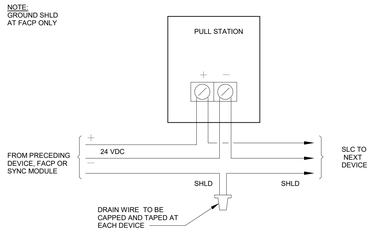
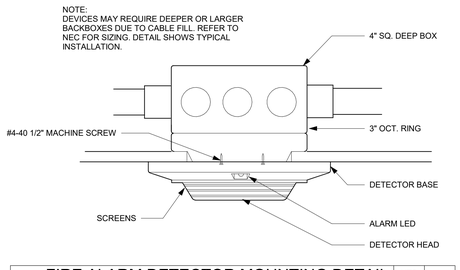


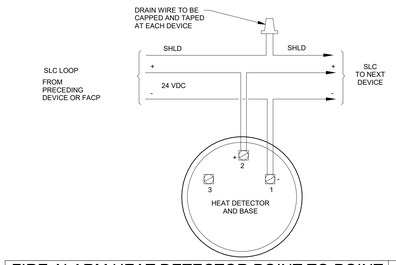
FIRE ALARM STROBE POINT TO POINT DIAGRAM — NTS — 10



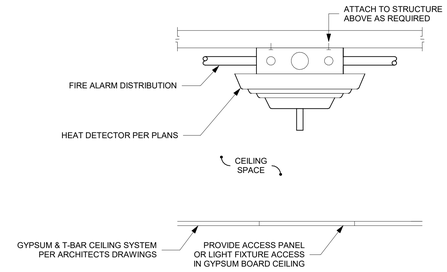
FIRE ALARM MANUAL PULL STATION POINT TO POINT DIAGRAM — NTS — 6



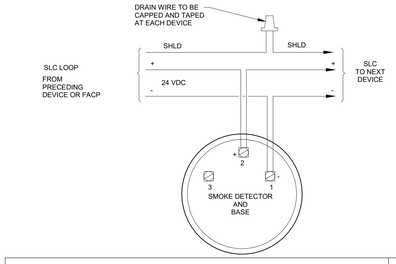
FIRE ALARM DETECTOR MOUNTING DETAIL (BELOW CEILING) — NTS — 11



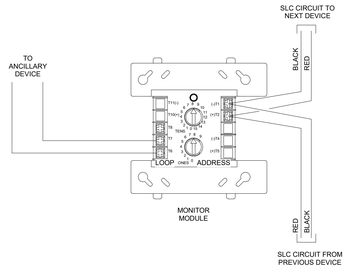
FIRE ALARM HEAT DETECTOR POINT TO POINT DIAGRAM — NTS — 7



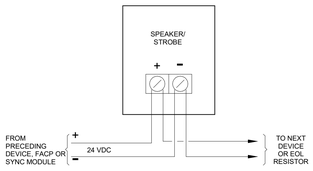
FIRE ALARM DETECTOR MOUNTING DETAIL (ABOVE CEILING) — NTS — 12



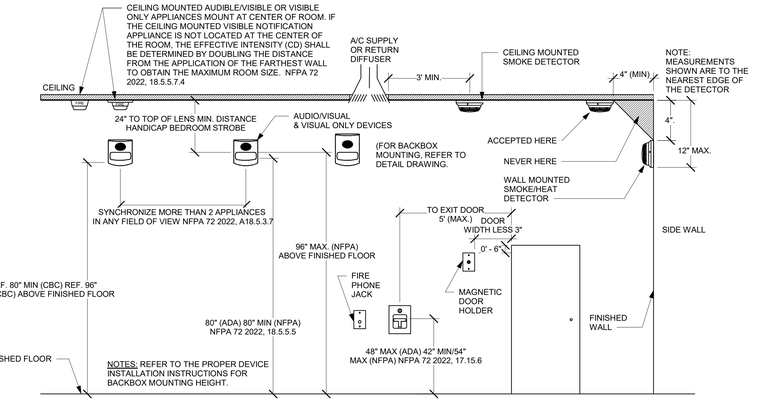
SMOKE DETECTOR POINT TO POINT DIAGRAM — NTS — 8



MONITOR MODULE WIRING DIAGRAM — NTS — 13

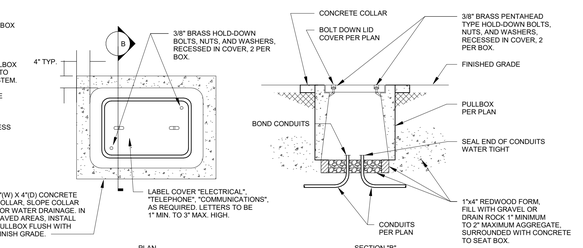


FIRE ALARM SPEAKER STROBE POINT TO POINT DIAGRAM — NTS — 9

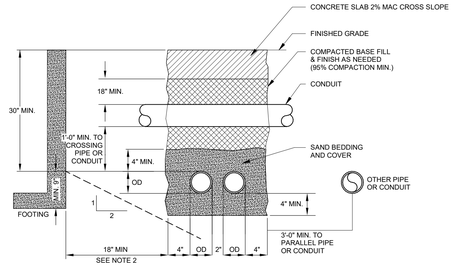


EQUIPMENT MOUNTING HEIGHTS — NTS — 1

NOTES:
1. ALL SPLICES WITHIN THE CONCRETE PULLBOX ARE TO BE SEALED WITH AN INSULATING AND ENCAPSULATING RESIN PACK, SCOTCHCAST 4 OR EQUAL.
2. ALL CONDUIT WITHIN THE CONCRETE PULLBOX ARE TO BE SEALED WITH RTV DUCT SEAL TO PREVENT WATER ENTERING CONDUIT SYSTEM.
3. ALL CONDUCTORS AND CABLES ARE TO BE GROUPED AND WIRE TIED EVERY 6' PER CONDUIT FILL.
4. PROVIDE TWO 12" EXTENSION RINGS UNLESS NOTED OTHERWISE.
5. CONCRETE PULLBOX DESIGNED TO WITHSTAND HS-20 LOADING



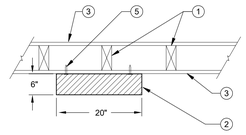
UNDERGROUND CONCRETE PULLBOX DETAIL — NTS — 2



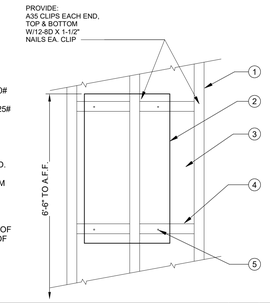
NOTES:
1. TRENCHING LOCATED IN PAVED AREAS - ALL EARTHWORK AND REPAIR SHALL BE IN ACCORDANCE WITH AGENCY THAT HAS JURISDICTION.
2. ALL PIPES AND TRENCHES MUST ALSO CONFORM WITH CBC 1809A.14.

TYPICAL TRENCH DETAIL — NTS — 3

KEY NOTES:
1. WOOD STUD.
2. SURFACE MOUNTED PANEL CABINET. SEE NOTE #1
3. SHEET ROCK OR OTHER WALL SURFACE MATERIAL (SEE ARCH. DRAWINGS).
4. 4 X 4 MIN. WOOD BLOCK FASTENED TO VERTICAL STUDS AT EACH END.
5. ATTACH PANEL TO BLOCKING W/(4) 3/8" LAG SCREW WITH 2" MIN EMBED TO BLOCK, (4) LAG SCREWS TOTAL. (INSTALLED BY ELECTRICAL CONTRACTOR)



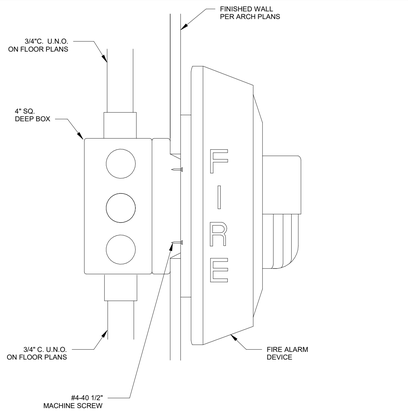
TOP VIEW



NOTES:
1. REGULAR PANELS 150# MAX. ISOLATION PANELS 225# MAX.
2. MOUNT TERMINAL CABINETS, J-BOXES, ETC., SIMILAR TO 30 CIRCUIT PANELBOARD.
3. REFER TO FIRE ALARM MATERIAL DATA SHEETS FOR PANEL SIZES.
4. CENTER OF GRAVITY OF CABINET FROM TOP OF FLOOR = +50".

FRONT VIEW

SURFACE PANEL/CABINET-WOOD FRAME — NTS — 5



NOTE:
1. DEVICES MAY REQUIRE DEEPER OR LARGER BACKBOXES DUE TO CABLE FILL. REFER TO NEC FOR SIZING, DETAIL SHOWS TYPICAL INSTALLATION.
2. REFER TO 1/FA0.2 FOR BACKBOX/DEVICE MOUNTING HEIGHTS.

FIRE ALARM DEVICE MOUNTED ON WALL (TYP.) — NTS — 4

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REGISTERED PROFESSIONAL ENGINEER
RAMI S. ZEID
No. E 16762
EXP. 9-30-26
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STATE OF CALIFORNIA

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PROJECT NO: 22434-E-02

FIRE ALARM DETAILS

FA-801

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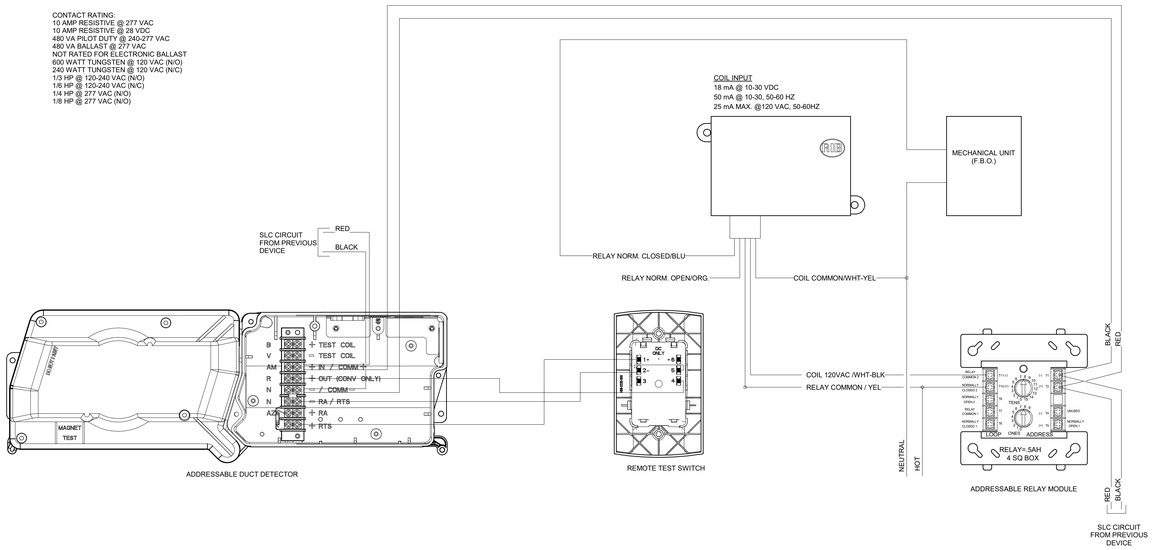
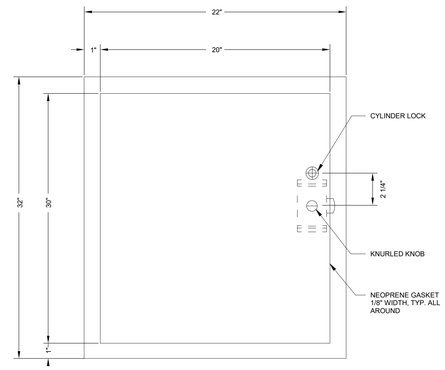
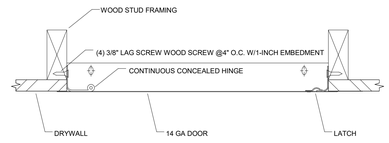
CONTACT RATING:
10 AMP RESISTIVE @ 277 VAC
10 AMP RESISTIVE @ 28 VDC
480 VA PILOT DUTY @ 240-277 VAC
480 VA BALLAST @ 277 VAC
NOT RATED FOR ELECTRONIC BALLAST
600 WATT TUNGSTEN @ 120 VAC (N/O)
240 WATT TUNGSTEN @ 120 VAC (N/C)
1/3 HP @ 120-240 VAC (N/O)
1/8 HP @ 120-240 VAC (N/C)
1/4 HP @ 277 VAC (N/O)
1/8 HP @ 277 VAC (N/O)



EXTERNAL DUCT DETECTOR WIRING DIAGRAM

NTS | 1





ACCESS PANEL DETAIL (TYP.)

NTS | 2

SYSTEM INPUTS	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	REMARKS
	SYSTEM OUTPUTS	ACTUATE FCP ALARM SIGNAL CONDITION	ACTUATE FCP SUPERVISORY SIGNAL CONDITION	ACTUATE FACP TROUBLE SIGNAL CONDITION	ACTUATE ANNUNCIATOR ALARM SIGNAL CONDITION	ACTUATE ANNUNCIATOR SUPERVISORY SIGNAL CONDITION	ACTUATE ANNUNCIATOR TROUBLE SIGNAL CONDITION	TRANSMIT ALARM CONDITION SIGNAL TO SUPERVISORY STATION	TRANSMIT SUPERVISORY CONDITION SIGNAL TO SUPERVISORY STATION	TRANSMIT TROUBLE CONDITION SIGNAL TO SUPERVISORY STATION	ACTUATE FIRE ALARM NOTIFICATION SIGNAL	ACTUATE FIRE ALARM CONTROL SUPERVISORY SIGNAL	ACTUATE FIRE ALARM CONTROL TROUBLE SIGNAL	SHUT DOWN ASSOCIATED AC / HVAC UNIT																							
	CTRL. UNIT ANNUNCIATION																NOTIFICATION																				FIRE SAFETY CONTROL	
1	SYSTEM ALARM CONDITION																																				1	
2	MANUAL PULL STATION	•			•			•									•																				2	
3	SMOKE SENSOR/DETECTOR	•			•			•									•																				3	
4	HEAT SENSOR/DETECTOR	•			•			•									•																				4	
5																																					5	
6																																					6	
7																																					7	
8																																					8	
9	SYSTEM SUPERVISORY CONDITION																																				9	
10	DUCT DETECTOR		•			•			•													•																10	
11	FLOW SWITCH		•			•			•									•																				11	
12	TAMPER SWITCH/BUTTERFLY VALVE		•			•			•									•																				12	
13	POST INDICATOR VALVE		•			•			•									•																				13	
14																		•																				14	
15																																					15	
16	SYSTEM TROUBLE CONDITION																																				16	
17	FIRE ALARM AC POWER FAILURE			•			•												•																		17	
18	OPEN CIRCUIT OR GROUND FAULT			•			•												•																		18	
19	FIRE ALARM SYSTEM LOW BATTERY			•			•												•																		19	
20																																					20	
21																																					21	
22																																					22	
	SYSTEM INPUTS	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	REMARKS

3 FIRE ALARM SEQUENCE OF OPERATIONS

SCALE: 1/4" = 1'-0"

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PROJECT NO: 22434-E-02

FIRE ALARM DETAILS AND SEQUENCE OF OPERATIONS

FA-802

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CONTRACTOR(S) GUIDELINES:

28. ALL SPLICES SHALL UTILIZE 3M 710 MODULES. ALL CABLES MUST BE EQUIPPED TO PROVIDE A CONTINUOUS BOUND OF CABLE SHIELDS THROUGH ALL SPLICES.

29. PULL ROPES SHALL BE PLACED IN ALL VACANT CONDUITS.

30. ALL WORK MUST BE COMPLETED IN A NEAT AND PROFESSIONAL MANNER. THE WORK SITE SHALL BE KEPT CLEAN AND ALL DAMAGE TO OWNER'S PROPERTY REPAIRED.

31. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONDUCTING A FINAL CLEANUP OF THE WORK SITE PRIOR TO FINAL SYSTEM ACCEPTANCE.

32. CONTRACTOR SHALL REMOVE ALL COPPER, FIBER AND COAXIAL CABLES ABANDONED IN CONDUIT, CEILINGS AND WALLS PER CEC. CABLE SHALL INCLUDE ALL INTRABUILDING, RISER SYSTEMS AND STATION CABLES FOR ALL LOW VOLTAGE/TECHNOLOGY/STRUCTURED CABLING SYSTEMS.

33. CONTRACTOR(S) SHALL VERIFY ALL SITE CONDITIONS PRIOR TO BID.

34. IN ACCESSIBLE CEILING SPACES;

a. THE CONTRACTOR SHALL PROVIDE THE REQUIRED STUB UP(S) / OUT(S) AND BOXES WITH MUDD-RINGS TO THE NEAREST ACCESSIBLE CEILING SPACE AND CLOSE NEAREST TECHNOLOGY PATHWAY INFRASTRUCTURE. REFERENCE PLANS AND SPECIFICATION FOR MORE INFORMATION.

b. THE DESIGNATED SCS / TECHNOLOGY CONTRACTOR(S) SHALL PROVIDE A J-HOOK PATHWAY SYSTEM AND REQUIRED SLEEVES. DO NOT USE CEILING TILE WIRE HANGERS. WATER OR ELECTRICAL PIPES, OR LIGHT FIXTURES TO HANG CABLE. CABLE MUST BE A MINIMUM OF 6 INCHES ABOVE THE CEILING TILE AND MUST NOT COME WITHIN TWELVE INCHES OF A LIGHT FIXTURE.

- THE SCS / TECHNOLOGY CONTRACTOR WILL PROVIDE THE PATHWAY REQUIRED FOR THE STRUCTURE CABLING SYSTEMS.
- THE DESIGNATED LOW VOLTAGE / TECHNOLOGY CONTRACTOR(S) FOR EACH "SUB-SYSTEM WILL PROVIDE THE PATHWAY REQUIRED FOR THE SYSTEMS, OUTSIDE WHAT IS CONSIDERED THE STRUCTURED CABLING SYSTEM.

35. IN INACCESSIBLE AND HARDLID CEILING SPACES;

a. THE CONTRACTOR SHALL PROVIDE ALL CONDUIT PATHWAYS, BOXES ETC. FOR A COMPLETE SYSTEM FINISH THE MDF ROOM, IDF ROOM(S), IDF CABINET(S), AND ALL OTHER LOW VOLTAGE / TECHNOLOGY SYSTEMS HEADEND, CABINETS, TERMINAL CABINETS, ETC. TO THE POINT OF TERMINATION AT THE STATION END LOCATION PER PLANS AND SPECIFICATION.

TECHNOLOGY ABBREVIATIONS:

ACP	ACCESS CONTROL PROCESSOR	MPOE	MINIMUM POINT OF ENTRY
AFF	ABOVE FINISHED FLOOR	(N)	NEW
AHJ	AUTHORITY HAVING JURISDICTION	NC	NORMALLY CLOSED
AMP	AMPLIFIER	NIC	NOT IN CONTRACT
AOR	ARCHITECT OF RECORD	NO	NORMALLY OPEN
AUD	AUDIO	NTS	NOT TO SCALE
AUTO	AUTOMATIC	NVR	NETWORK VIDEO RECORDER
AUX	AUXILIARY	OC	ON CENTER
AV	AUDIOVISUAL	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
AVC	AUDIOVISUAL CONTROLLER	OFOI	OWNER FURNISHED, OWNER INSTALLED
AWG	AMERICAN WIRE GAUGE	OSP	OUTSIDE PLANT
BCT	BONDING CONDUCTOR FOR TELECOMMUNICATIONS CONDUIT	PB	PULL BOX
C	CONDUIT	PIR	PASSIVE INFRARED
CATV	COMMUNITY ANTENNA TELEVISION	POE	POWER OVER ETHERNET
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED	PR	PAIR OF CONDUCTORS
CFOI	CONTRACTOR FURNISHED, OWNER INSTALLED	PTZ	PAN TILT ZOOM
CL	CENTER LINE	PVC	POLYVINYL CHLORIDE
DIV	DIVISION	PWR	POWER
DC	DOOR CONTACT	RCP	REFLECTED CEILING PLAN
(E)	EXISTING	REX	REQUEST TO EXIT
EC	ELECTRICAL CONTRACTOR	RFI	REQUEST FOR INFORMATION
ECS	EMERGENCY COMMUNICATION SYSTEM	RMC	RIGID METALLIC CONDUIT
EF	ENTRANCE FACILITY FOR TELECOMMUNICATION	SM	SINGLE MODE
EMT	ELECTRIC METALLIC TUBING	STR	STRANDS (OF FIBER)
ER	EQUIPMENT ROOM	STP	SHIELDED TWISTED PAIR
EXT	EXTERIOR	SEC	SECURITY
(F)	FUTURE	TBB	TELECOMMUNICATIONS BONDING BACKBONE
FACP	FIRE ALARM CONTROL PANEL	TELCO	TELEPHONE COMPANY
FATC	FIRE ALARM TERMINAL CABINET	TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
FB	FLOORBOX	TMGB	TELECOMMUNICATION MAIN GROUNDING BUSBAR
FO	FIBER OPTIC	TYP	TYPICAL
GB	GROUND BOX	UON	UNLESS OTHERWISE NOTED
GC	GENERAL CONTRACTOR	UPS	UNINTERRUPTIBLE POWER SUPPLY
IC	INTERCOM	UTP	UNSHIELDED TWISTED PAIR
IDF	INTERMEDIATE DISTRIBUTION FRAME	V	VIDEO
ICP	INTRUSION CONTROL PROCESSOR	VSS	VIDEO SURVEILLANCE SYSTEM
INT	INTERIOR	WB	WALL BOX
IP	INTERNET PROTOCOL	WP	WEATHERPROOF
IT	INFORMATION TECHNOLOGY		
JB	JUNCTION BOX		
MDF	MAIN DISTRIBUTION FRAME		
MIC	MICROPHONE		
MM	MULTIMODE		

EQUIPMENT ANCHORAGE NOTES:

APPLICABLE CODE: 2022 CBC

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26 AND 30.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING, AND DUCTWORK DISTRIBUTION SYSTEM BRACING NOTES:

APPLICABLE CODE: 2022 CBC PER IR 16-13.

MEP DISTRIBUTION SYSTEM BRACING NOTE FOR PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7 SECTION 13.3 AS DEFINED IN ASCE 7 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. THE MEP DESIGN PROFESSIONAL ENGINEER RESPONSIBLE FOR CONTENT ON THESE SHEETS HAS VERIFIED THAT THE DESIGN METHODS IDENTIFIED BELOW ARE IN ACCORDANCE WITH DSA IR 16-13.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP	MD	PP	E	
☐	☐	☐	■	OPTION 1: PROJECT-SPECIFIC DESIGN.
MP	MD	PP	E	
☐	☐	☐	☐	OPTION 2: DESIGN BASED ON OSHPD, WITHIN PROJECT SUBMITTAL.
MP	MD	PP	E	
☐	☐	☐	☐	OPTION 3: DESIGN BASED ON OSHPD, DEFERRED SUBMITTAL.

TECHNOLOGY PENETRATION NOTES:

1. UNLESS SPECIFICALLY SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL MAKE NO PENETRATION OF FLOORS, WALLS OR CEILING WITHOUT THE PRIOR WRITTEN APPROVAL OF THE OWNERS REPRESENTATIVE.

2. WALL PENETRATIONS:

a. THE SCS AND/OR LV CONTRACTOR SHALL PROVIDE FIRE STOPPING FOR ALL COMMUNICATIONS RATED (AND IN SOME CASES NON-RATED, THAT WILL BE DESCRIBED BELOW THIS SECTION) PATHWAYS AND SPACES. THESE FIRE STOPPING DEVICES SHALL CONFORM TO (BUT NOT LIMITED TO) UL 1479, ASTM E814, BICSI TDMM, FIRE STOPPING ANSI/TIA-568-C, STANDARD FOR INSTALLING COMMERCIAL BUILDING TELECOMMUNICATIONS CABLING, SECTION 5, CLAUSE 5.1 THROUGH 5.2.3, MANUFACTURERS GUIDELINES OR OTHER PREVAILING CODE AND MUST BE AN APPROVED UL LISTED SYSTEM.

b. CABLE TRAY FIRE-STOPPING SHALL UTILIZE THE MULTI GANG FIRE-STOPPING SYSTEM THAT WILL BE ABLE TO STACK THE UNITS HORIZONTALLY AND/OR VERTICALLY IF REQUIRED DUE TO CURRENT AND/OR FUTURE CABLING DESIGN.

c. THE CONTRACTOR SHALL INSTALL PENETRATION FIRE-STOP SEAL MATERIALS IN ACCORDANCE WITH DESIGN REQUIREMENTS, AND MANUFACTURER'S INSTRUCTIONS.

d. THE CONTRACTOR'S INSTALLER SHALL BE CERTIFIED, LICENSED OR OTHERWISE QUALIFIED BY THE FIRE-STOPPING MANUFACTURER AS HAVING BEEN PROVIDED THE NECESSARY TRAINING TO INSTALL MANUFACTURERS PRODUCTS PER SPECIFIED REQUIREMENTS.

e. ALL THROUGH-PENETRATION SHALL BE A MANUFACTURED, UL CLASSIFIED, FIRE-STOP DEVICE / SYSTEM DESIGNED TO ALLOW CABLES TO PENETRATE FIRE-RATED WALLS WITH A BUILT-IN FIRE SEALING SYSTEM THAT AUTOMATICALLY ADJUSTS TO THE AMOUNT OF CABLES INSTALLED. THE FIRE-STOPPING DEVICE SHALL BE CAPABLE OF INSTALLATION IN NEW CONSTRUCTION OR RETROFIT IN EXISTING STRUCTURES.

f. THE CONTRACTOR MUST NOT USE CONCRETE OR OTHER NON-REMOVABLE SUBSTANCE FOR FIRE STOPPING ON CABLE TRAYS, WIREWAYS OR CONDUITS. CONTRACTORS WHO USE THIS METHOD WILL BE REQUIRED TO REPLACE ALL CABLES AFFECTED AND PROVIDE THE ORIGINAL SPECIFIED ACCESS TO EACH EFFECTED AREA. THIS REQUIREMENT ALSO APPLIES TO MAINTAINING FIRE RATINGS OF ALL FLOORS PENETRATED BY CONDUITS OR DEVICES DESIGNATED FOR USE BY VOICE AND DATA CABLING.

g. ANY PENETRATIONS THROUGH FIRE-RATED WALLS FOR CABLE PATHWAYS / CABLES SHALL BE SEALED BY USE OF A NON-PERMANENT FIRE BLANKET OR OTHER METHOD IN COMPLIANCE. THE CONTRACTOR MUST USE FIRE STOPPING ON CABLE TRAYS, WIREWAYS AND CONDUIT EITHER VERTICAL OR HORIZONTAL FOR DIFFERENT METHODS OF FIRE-STOPPING HAVE BEEN IDENTIFIED FOR THE HORIZONTAL THROUGH PENETRATIONS BETWEEN WALLS, RATED, RATED WITH ACOUSTIC PROPERTIES, NON-RATED, AND NON-RATED WITH ACOUSTIC PROPERTIES.

BELOW ARE METHODS TO ACCOMPLISH THESE DIFFERENT TYPES:

- SEALING OF RATED OPENINGS BETWEEN FLOORS OR THROUGH RATED WALLS, WHETHER EXISTING OR CREATED BY THE CONTRACTOR FOR PLACEMENT OF CABLE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SEALING MATERIAL AND APPLICATION SHALL BE AN APPROVED UL LISTED SYSTEM AND SHALL BE ACCOMPLISHED IN SUCH A MANNER THAT IS ACCEPTABLE TO THE LOCAL FIRE AND BUILDING AUTHORITIES HAVING JURISDICTION OVER THIS WORK. CREATION OF SUCH OPENINGS AS ARE NECESSARY FOR CABLE PASSAGE BETWEEN LOCATIONS AS SHOWN ON THE DRAWINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR FOR ANY OPENINGS CREATED BY OR FOR THE CONTRACTOR AND LEFT UNUSED SHALL ALSO BE SEALED AS PART OF THIS WORK.
- RATED WALLS WITH THROUGH PENETRATIONS WITH ACOUSTIC PROPERTIES SHALL BE INSTALLED WITH FACTORY MANUFACTURED DEVICE. SUCH AS A STI "EZ PATH" OR WIREMOLD "FLAMESTOPPER" OR EQUAL. THE TYPICAL STC RATING IS TO BE EQUAL TO OR GREATER THAN THE WALL PENETRATED, (AVG IS A RATING OF 44 STC PER UBC RATINGS).
- NON-RATED PATHWAY WITH ACOUSTIC PROPERTIES CAN BE FOUND IN AREAS SUCH AS, CONFERENCE ROOMS, HUMAN RESOURCE OFFICES, MEDICAL EXAMINATION ROOMS ETC. THESE ROOMS REQUIRE TO LIMIT THE AMOUNT OF AMBIENT NOISE THAT CAN TRAVEL FROM ONE ROOM TO THE OTHER THROUGH THE CEILING GRID. IF THIS WALL IS PENETRATED, INSTALL A SYSTEM THAT WILL RE-ESTABLISH THE STC RATING OF THE WALL, THE TYPICAL STC RATING IS AN AVERAGE OF 44 STC PER UBC RATINGS.

CONTRACTOR(S) GUIDELINES:

1. ALL TECHNOLOGY WORK SHALL COMPLY WITH DESIGN GUIDELINES AS WELL AS APPLICABLE FEDERAL, STATE, AND LOCAL CODES. WHERE THE CONSTRUCTION DOCUMENTS INDICATE MORE RESTRICTIVE REQUIREMENTS, THE DOCUMENTS SHALL GOVERN BUT THE CONSTRUCTION DOCUMENTS SHALL NOT BE INTERPRETED AS AUTHORITY TO VIOLATE ANY CODE OR REGULATION.

2. IN THE EVENT OF A CONFLICT OR INCONSISTENCY BETWEEN ITEMS INDICATED ON THE PLANS AND/OR SPECIFICATIONS OR WITH CODE REQUIREMENTS, THE NOTE, CODE OR SPECIFICATION WHICH PRESCRIBES AND ESTABLISHES THE MORE COMPLETE JOB OR THE HIGHER STANDARD SHALL PREVAIL.

3. THE CONTRACTOR SHALL CHECK ALL DRAWINGS FURNISHED, IMMEDIATELY UPON THEIR RECEIPT AND SHALL PROMPTLY NOTIFY THE OWNER OF ANY DISCREPANCIES.

4. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BEAR THE UNDERWRITERS LABEL (UL) AND SHALL BE INSTALLED IN THE MANNER FOR WHICH THEY ARE DESIGNED AND APPROVED.

5. THE CONTRACTOR SHALL NOT BORE, NOTCH OR IN ANY WAY CUT INTO ANY STRUCTURAL MEMBER WITHOUT WRITTEN APPROVAL FROM THE ARCHITECT OR STRUCTURAL ENGINEER.

6. ALL CHANGES TO STRUCTURES (BUILDING, DRILLING, CORING, ETC.) NOT SHOWN ON THE DRAWINGS SHALL BE APPROVED IN WRITING BY STRUCTURAL ENGINEER.

7. FOR PURPOSES OF CLEARNESS AND LEGIBILITY, THE TELECOM DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC. THE SIZE AND LOCATION OF EQUIPMENT IS SHOWN TO SCALE WHEREVER POSSIBLE. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS, DATA INFORMATION AS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATION SECTIONS WHERE SCS AND LOW VOLTAGE WORK INTERFACES WITH OTHER TRADES.

8. THE CONTRACTOR SHALL MAINTAIN AS-BUILT DRAWINGS TO REFLECT ALL CHANGES MADE DURING CONSTRUCTION AND ANY DEVIATIONS FROM THE ELECTRICAL AND TECHNOLOGY DRAWINGS. THIS INCLUDES DEVIATIONS FROM OUTLET NUMBERS AND ANY ADDITION, DELETION OR RELOCATION OF OUTLETS SHOWN ON WORKING DRAWINGS, PATHWAY ADDITIONS, DELETIONS OR RELOCATIONS. THE CONTRACTOR SHALL AFTER COMPLETION OF JOB, PROVIDE THE OWNER AN ELECTRONIC AND HARD COPY OF AS-BUILT WORK.

9. ANY DEVIATIONS FROM PLANS OR SPECS MUST BE APPROVED IN WRITING BY THE OWNER'S REPRESENTATIVE.

10. ALL FOOTAGES ON DRAWINGS ARE ESTIMATED AND MUST BE VERIFIED BY CONTRACTOR PRIOR TO ORDERING MATERIAL.

11. ALL STATION CABLES SHALL BE NEATLY DRESSED AND SECURED EVERY FIVE FEET AT A MINIMUM.

12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILING TILE INCLUDING REPLACEMENT OF BROKEN OR DAMAGED TILES.

13. ALL LOCATIONS PASSING THROUGH A FIRE OR A SMOKE BARRIER MUST BE FIRE STOPPED USING APPROVED (UL CLASSIFIED) FIRE STOP SYSTEM, INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS AND PROPERLY LABELED.

14. CONDUIT SHALL BE FILLED TO MAXIMUM CAPACITY (PER CODE, STANDARDS, AND NORMS) BEFORE UTILIZING ANOTHER VACANT CONDUIT.

15. ALL STATION OUTLETS AND TERMINALS SHALL BE PROPERLY IDENTIFIED USING THE OWNER'S STANDARD INTERNAL DISTRIBUTION NUMBERING SCHEME. ALL LABELS SHALL BE PREPRINTED OR TYPED.

16. EACH BACKBONE RISER AND/OR OSP CABLE SHALL BE EQUIPPED WITH A PERMANENT LABEL INDICATING CABLE TYPE, PAIR OR OPTIC COUNTS, DISTANT ENDS, AND CABLE LENGTH. BOTH ENDS OF EACH CABLE AND AT EVERY MAINTENANCE HOLE, HAND HOLE, AND PULL BOX, SHALL BE SO LABELED.

17. FIBER BACKBONE CABLE SHALL BE PLACED WITH 6 FOOT MAINTENANCE LOOP AT BOTH ENDS OF THE RUN. THE MAINTENANCE LOOP SHALL BE SECURED IN SUCH A MANNER TO PROVIDE PROTECTION DURING SUBSEQUENT CABLE PULLS.

18. ALL STATION CABLES/OUTLETS SHALL BE TESTED AND DOCUMENTED USING A PAIR SCANNER SPECIFICALLY DESIGNED TO TEST THE TYPE OF CABLE INSTALLED (E.G. CATEGORY 6A). TEST RESULTS SHALL BE ONE PAGE PER AND NOTED WITH THE STATION/JACK NUMBERING SCHEME THAT IS STANDARDIZED FOR THE OWNER.

19. ALL FIBER OPTIC STATION AND RISER CABLE SHALL BE TESTED END-TO-END AND THE RESULTS (LOSS IN dB) NOTED ON A SEPARATE TYPED SHEET.

20. AFTER STATION CABLE IS TESTED AND DOCUMENTED, ONE PAIR FROM EACH VOICE STATION SHALL BE CROSS CONNECTED THROUGH EACH CLOSET BACK TO THE MAIN DISTRIBUTION FRAME. TELEPHONE NUMBER ASSIGNMENTS FOR EACH JACK MUST BE APPROVED BY THE TELECOM STAFF PRIOR TO IMPLEMENTATION. A WRITTEN RECORD OF ALL CROSS CONNECT ASSIGNMENTS WILL BE PROVIDED TO THE OWNER BY THE SCS CONTRACTOR.

21. FIBER CABLES SHALL BE SPLICED TOGETHER USING A FUSION SPLICE AND PLACED IN A FIBER SPLICE CASE THAT IS RE-ENTERABLE, FULLY DRESSED AND ENCLOSED TO FIT THE NUMBER AND TYPE OF CABLES TERMINATED.

22. CABLE TRAY SHALL BE PLACED IN MDF AND IDF(S) AS SHOWN ON DRAWINGS AND AS REQUIRED TO PROPERLY SECURE CABLES AND WIRE.

23. A BACKBONE CABLE ASSIGNMENT RECORD SHEET SHALL BE PREPARED (TYPED) PRIOR TO START OF ACCEPTANCE TESTING. ALL FLOOR PLANS SHALL BE NEATLY HAND NOTED WITH STATION JACK NUMBER AND CABLE LENGTH.

24. ALL CABLES SHALL BE CLEARLY LABELED WITH CABLE NUMBERS, PAIR ASSIGNMENTS AND DESIGNATION.

25. ALL CABLE TRAYS, LADDER RACKS, CONDUITS, EQUIPMENT RACKS, PROTECTOR PANELS, AND CABLE SHEATHS SHALL BE BONDED & GROUNDED TO EQUIPMENT GROUND WITH #6 WIRE (MIN.)

26. ALL SPLICES SHALL BE CONTAINED WITHIN AN APPROVED SPLICE CASE DESIGNED FOR MULTIPLE CLOSURE.

TECHNOLOGY CABLING NOTES:

1. THE USE OF LUBRICANTS SUCH AS CLEAR GLIDE, TO FACILITATE THE INSTALLATION OF CABLES IN CONDUITS IS ENCOURAGED FOR FRICTION REDUCTION AND TO MAINTAIN THE REQUIRED PULL TENSION. YELLOW 77 AND POLYWATER "F" IS PERMISSIBLE FOR USE AS A LUBRICANT FOR ISP TECHNOLOGY CABLING. THE USE OF OSP. LOW TEMPERATURE CABLE LUBRICANTS SHALL NOT BE ACCEPTABLE IN AN INDOOR PLENUM ENVIRONMENT. UNDER NO CIRCUMSTANCES SHALL CABLE PULLING LUBRICANT BE ALLOWED TO ACCUMULATE ON WALLS, FLOORS, BACKBOARDS, OR OTHER SURFACES OUTSIDE THE CONDUIT.

2. ANY CABLE DAMAGED OR EXCEEDING RECOMMENDED INSTALLATION PARAMETERS DURING INSTALLATION SHALL BE REPLACED BY THE CONTRACTOR BEFORE FINAL ACCEPTANCE AT NO COST TO THE OWNER.

3. EACH RUN OF CABLE BETWEEN THE TERMINATION BLOCK OR PATCH PANEL AND THE STATION CONNECTOR SHALL BE CONTINUOUS WITHOUT ANY JOINTS OR SPLICES.

4. ALL STATION CABLE SHALL BE PLACED IN THE INTERIOR OF WALLS UNLESS OTHERWISE NOTED OR OBSTRUCTED.

5. PROVIDE BUSHINGS, GROMMETS AND STRAIN-RELIEF FOR CABLES TERMINATING AT WALL-MOUNTED OUTLETS AND PATCH PANELS TO ENSURE DURABLE AND ROBUST CONNECTIONS. THE BUSHINGS AND GROMMETS ARE INTENDED TO PROTECT THE CABLES FROM ANY SHARP EDGES THAT PRESENT A RISK TO THE CABLES. ENSURE THAT ALL SHARP EDGES ARE COVERED TO PROTECT THE CABLES FROM DAMAGE.

6. ALL CABLE BUNDLES EXITING FLOOR OR WALL PENETRATIONS AND RUNNING INTO FURNITURE, OR CUBEWORK SHALL BE WRAPPED IN SPIRAL WRAP OR SPLIT-LOOM TUBING TO PROTECT THE CABLING AND PROVIDE A NEAT INSTALLATION.

7. ALL CABLE OR INNERDUCT SHALL RUN PARALLEL OR AT RIGHT ANGLES TO BUILDING WALL STRUCTURES.

8. IN SUSPENDED CEILING AND RAISED FLOOR AREAS WHERE DUCT, CABLE TRAYS OR CONDUIT ARE NOT AVAILABLE, CABLE BUNDLES SHALL BE SUPPORTED VIA "J" HOOKS ATTACHED TO THE BUILDING STRUCTURE AND ON CENTERS A MAXIMUM OF FIVE (5) FOOT INTERVALS. MINIMUM 1 " WIDE J-HOOKS SHALL BE APPROPRIATELY SIZED TO ALLOW A MINIMUM OF 40% SPARE CAPACITY FOR FUTURE CABLE INSTALLATION. THE CONTRACTOR SHALL INCLUDE ALL COSTS IN BASE BID FOR ANY ADDITIONAL SUPPORTS/SEISMIC BRACING REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION.

9. THE CONTRACTOR SHALL BUNDLE, IN BUNDLES OF 48 OR LESS, STATION OR OTHER CABLING WITH 3/4" HOOK AND LOOP "VELCRO" STRIPS TIGHT ENOUGH TO HOLD THE BUNDLE TOGETHER IN A CYLINDRICAL SHAPE, BUT NOT SO TIGHT AS TO DEFORM THE CABLE GEOMETRY. IT SHALL BE POSSIBLE TO COMPLETELY ROTATE ALL HOOK AND LOOP TIES AROUND ALL CABLE BUNDLES. PLENUM RATED HOOK AND LOOP TIES WILL BE USED IN ALL PLENUM AREAS.

10. CABLES OR J-HOOKS SHALL NOT BE ATTACHED TO LIFT OUT CEILING GRID SUPPORTS OR LAID DIRECTLY ON THE CEILING GRID.

11. CABLES OR J-HOOKS SHALL NOT BE ATTACHED TO OR SUPPORTED BY FIRE SPRINKLER HEADS OR DELIVERY SYSTEMS OR ANY ENVIRONMENTAL SENSOR LOCATED IN THE CEILING AIR SPACE.

12. WHERE ADDITIONAL CONDUIT(S)/SLEEVE(S) ARE REQUIRED, BUT NOT PROVIDED BY THE CONTRACTOR, THE SCS AND/OR LV CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE SUCH CONDUIT(S)/SLEEVE(S). CONDUIT(S) AND SLEEVE(S) SHALL BE OF SUITABLE MATERIAL, SIZED, INSTALLED, FIRE-STOPPED, AND GROUNDED AS REQUIRED BY THE CEC, ANSI/TIA-569-D STANDARD AND ALL OTHER APPLICABLE CODES AND STANDARDS. SLEEVES SHALL CONSIST OF METALLIC CONDUIT DE-BURRED AND GROMMETED ON BOTH ENDS WITH FLANGES OR OTHER MEANS TO PREVENT THE SLEEVE FROM SLIPPING UP OR FALLING OUT OF THE PARTITION. SLEEVES SHALL EXTEND A MINIMUM OF 6" ON BOTH SIDES OF THE PARTITION. OUTSIDE PERIMETER OF SLEEVES SHALL BE SEALED AGAINST SOUND, AIR, WATER, HEAT, OR AS REQUIRED BY PARTITION DESIGN. INSIDE OF SLEEVE SHALL BE SEALED SIMILARLY AFTER INSTALLATION OF ALL CABLING. CABLES SHALL BE INDEPENDENTLY SUPPORTED ON EITHER SIDE OF THE SLEEVE. SLEEVES SHALL NOT BE USED AS CABLE SUPPORTS. ANY CONDUIT(S) AND SLEEVE(S) ADDED BY THE CONTRACTOR SHALL BE APPROVED BY THE OWNERS REPRESENTATIVE PRIOR TO ROUGH-IN.

13. IN THE EVENT CONTRACTOR IS REQUIRED TO REMOVE CEILING TILES, SUCH WORK SHALL NOT BREAK OR DISTURB GRID. REMOVAL OF THE CEILING GRID MUST BE COORDINATED WITH THE OWNERS REPRESENTATIVE. ALL INSULATION SHALL BE REPLACED IN ITS ORIGINAL LOCATION.

14. THE NUMBER OF CABLES IN EACH CONDUIT SHALL BE CONTROLLED TO ALLOW FOR FUTURE CABLE INSTALLATION AND TO STAY WITHIN THE MANUFACTURER'S MAXIMUM ALLOWABLE CABLE PULLING TENSION. CONDUIT FILL RATIOS SHALL NOT EXCEED THE CURRENT REQUIREMENTS OF THE CEC, ANSI/TIA-569-D, REFERENCE SECTION B.2, TABLES 1 AND 2 OF THIS DOCUMENT FOR ADDITIONAL REQUIREMENTS.

15. CONDUITS:

- ALL BACKBONE CABLING WILL RUN THROUGH DEDICATED CONDUITS.
- ALL NEW CONDUITS WILL BE SUPPLIED WITH A PULL STRING BY THE CONTRACTOR.
- EXISTING CONDUITS SHALL BE PROVEN TO BE CLEAR BY THE SCS AND/OR LV CONTRACTOR PRIOR TO PULLING OF CABLES.
- SCS AND/OR LV CONTRACTOR SHALL SUPPLY PULL STRING AND PULL ROPE FOR THE INSTALLATION OF CABLES IN EXISTING CONDUITS.
- FOR ALL CONDUITS LEFT WITH AVAILABLE CAPACITY, SCS AND/OR LV CONTRACTOR SHALL REPLACE PULL STRINGS/ROPE IN THE COURSE OF HIS WORK.
- SCS AND/OR LV CONTRACTOR MUST SEAL ALL CONDUITS WITH AN APPROVED SEALING COMPOUND.

TECHNOLOGY GROUNDING SYSTEM NOTES:

1. THE CONTRACTOR SHALL PROVIDE A TELECOMMUNICATION GROUNDING BUSBAR (TGB) AND TELECOMMUNICATION BONDING BACKBONE (TBB) CABLE(S) AT EACH MDF ROOM AND IDF LOCATION. TERMINATE THE TBB ON GROUND BARS LOCATED AT EACH MDF ROOM AND IDF CABINET FROM BUILDING STEEL OR MAIN ELECTRICAL GROUND, OR AS OTHERWISE INDICATED ON THE DRAWINGS.

2. THE SCS CONTRACTOR SHALL UTILIZE A TELECOMMUNICATIONS BONDING BACKBONE (TBB) AS INDICATED IN THE DRAWINGS. GROUNDING MUST BE IN ACCORDANCE WITH THE CEC, ANSI/TIA-607-B AND ALL LOCAL CODES AND PRACTICES.

3. THE SCS CONTRACTOR SHALL BE RESPONSIBLE FOR BONDING ALL METALLIC SHEATH COMMUNICATIONS CABLES ENTERING THE BUILDING PER MANUFACTURER SPECIFICATIONS AND CEC 770-33, 800-33 AND 800-40. ALL GROUNDS SHALL CONSIST OF # 6 AWG COPPER WIRE AND SHALL BE SUPPLIED FROM AN APPROVED BUILDING GROUND AND BONDED TO THE MAIN ELECTRICAL GROUND. ALL CABLE SHEATHS AND SPLICE CASES SHALL BE GROUNDED TO A TELECOMMUNICATIONS GROUND BUS.

4. THE SCS CONTRACTOR SHALL PROVIDE GROUNDING AND BONDING FROM ALL HORIZONTAL EQUIPMENT INCLUDING DISTRIBUTION AND CROSS CONNECT FRAMES, PATCH PANELS, CABLE TRAYS, EQUIPMENT RACKS, LADDER TRAYS, CONDUITS, ACTIVE TELECOMMUNICATION EQUIPMENT, SLEEVES, TEST APPARATUS. EQUIPMENT SHALL BE BONDED TO THE TBB GROUND BARS UTILIZING A #6-AWG GREEN CONDUCTOR WITH 2-HOLE LONG BARREL COMPRESSION GROUNDING LUGS.

a. EACH EQUIPMENT CABINET AND RACK REQUIRES ITS OWN DEDICATED RACK GROUNDING BUSBAR (RGB) WITH A BONDING CONNECTION TO THE GROUNDING INFRASTRUCTURE. THE GROUNDING INFRASTRUCTURE CONSIST OF A TB, BY PROVIDING EVERY RACK/CABINET WITH ITS OWN DEDICATED #6 WAG (MIN.) GREEN CONDUCTORS BACK TO THE TGB/TBB. ALL GROUND CONDUCTOR ATTACHMENTS SHALL UTILIZE 2-HOLE LONG BARREL COMPRESSION LUGS.

b. HORIZONTAL CABLES SHALL BE GROUNDED IN COMPLIANCE WITH ANSI/TIA-607-C, FP 70 (EEC

TECHNOLOGY SYMBOL LEGEND:

ALL NOTES ARE TYPICAL UNLESS NOTED OTHERWISE ON PLANS AND DETAILS

MARK	SYMBOL	DESCRIPTION	BACK BOX	PLASTER RING	MOUNTING HEIGHT	CONDUIT	CABLING RESPONSIBILITY			CABLE MFR.	CABLE PRODUCT NUMBER	CABLE FACEPLATE ACCESSORY	DEVICE RESPONSIBILITY			DEVICE MFR.	DEVICE PRODUCT NUMBER	DEVICE ACCESSORY	MAX. LOAD	INSTALLATION NOTES
							CFCI	OFCI	OFOI				CFCI	OFCI	OFOI					
1	MDF	MDF EQUIPMENT RACK	EDIT	EDIT	AS NOTED PER PLAN	EDIT	✓			N/A	N/A	N/A	✓			AS NOTED PER EQUIPMENT SCHEDULE(S)	AS NOTED PER EQUIPMENT SCHEDULE(S)	N/A	1500 LBS.	1 T-802
2	IDF	IDF EQUIPMENT RACK	EDIT	EDIT	AS NOTED PER PLAN	EDIT	✓			N/A	N/A	N/A	✓			AS NOTED PER EQUIPMENT SCHEDULE(S)	AS NOTED PER EQUIPMENT SCHEDULE(S)	N/A	1000 LBS.	2 T-802
3		PULL BOX INTERIOR: NEMA1, EXTERIOR: NEMA3	EDIT	EDIT	+24" TO CENTER	EDIT	✓			N/A	N/A	N/A	✓			AS NOTED PER EQUIPMENT SCHEDULE(S)	AS NOTED PER EQUIPMENT SCHEDULE(S)	N/A	N/A	N/A
4		CONDUIT	EDIT	EDIT	AS REQ'D	EDIT	✓			N/A	N/A	N/A	✓			AS NOTED PER EQUIPMENT SCHEDULE(S)	AS NOTED PER EQUIPMENT SCHEDULE(S)	N/A	N/A	N/A
5	J	NON-CONTINUOUS OPEN ENDED PATHWAY, J-HOOK W/ COLOR CLIP	EDIT	EDIT	6" ABV. CEILING	EDIT	✓			N/A	N/A	N/A	✓			CADDY	CAT21 (25-CABLE MAX.) CAT32 (40-CABLE MAX.) CAT64 (64-CABLE MAX.)	N/A	N/A	7 T-803, 8 T-803
6		CABLE LADDER RUNWAY	EDIT	EDIT	ABV. EQUIPMENT RACK	EDIT	✓			N/A	N/A	N/A	✓			MIDDLE ATLANTIC	CLB-10-W18	N/A	N/A	6 T-802
7	#	DATE / VOICE WORK AREA OUTLET	4-11/16" SQ., 2-1/8" DEEP	1-DEVICE	+18" TO CENTER	1 EA. 1"C	✓			COMMSCOPE	CAT6A (RISER): UN884026814/10 (BLUE)	N/A	✓			PANDUIT	1FM-(4)OE-AMP-LAB	N/A	N/A	9 T-804, 10 T-804, 11 T-804, 12 T-804
8	WAP	WIRELESS ACCESS POINT	4-11/16" SQ., 2-1/8" DEEP	1-DEVICE	+108" TO CENTER / CEILING	1 EA. 1"C	✓			COMMSCOPE	CAT6A (RISER): UN884026814/10 (BLUE)	N/A			✓	PANDUIT	1375055-1-0	N/A	N/A	13 T-804
9		8" LAY-IN SPEAKER	EDIT	EDIT	CEILING	1 EA. 1"C	✓			COMMSCOPE	CAT6A (RISER): UN884026814/10 (BLUE)	N/A	✓			ADVANCED NETWORK DEVICES	EDIT	N/A	N/A	17 T-804
10	S	8" SPEAKER W/ BACK BOX AND GRILLE, HARD LID	MFR. SPECIFIC	MFR. SPECIFIC	CEILING	1 EA. 1"C	✓			COMMSCOPE	CAT6A (RISER): UN884026814/10 (BLUE)	N/A	✓			ADVANCED NETWORK DEVICES	IPSWS-FM	N/A	N/A	15 T-804
11	S	8" SPEAKER W/ BACK BOX AND GRILLE, EXTERIOR WALL	MFR. SPECIFIC	MFR. SPECIFIC	+90" TO CENTER	1 EA. 1"C	✓			COMMSCOPE	CAT6A (RISER): UN884026814/10 (BLUE)	N/A	✓			ADVANCED NETWORK DEVICES	IPSWS-SM-O	N/A	N/A	14 T-804
12	AVC	AUDIO-VIDEO COLOR TOUCH CONTROL PANEL	4-11/16" SQ., 2-1/8" DEEP	1-DEVICE	+48" TO CENTER	1 EA. 1"C	✓			COMMSCOPE	CAT6A (RISER): UN884026814/10 (BLUE)	N/A	✓			AS REQ'D	AS NOTED PER AV ONE-LINES	N/A	N/A	N/A
13	AVI	AUDIO-VIDEO INPUT PANEL	4-11/16" SQ., 2-1/8" DEEP	1-DEVICE	+18" TO CENTER	1 EA. 1"C	✓			COMMSCOPE / AV AS REQ'D	CAT6A (RISER): UN884026814/10 (BLUE)	N/A	✓			AS REQ'D	AS NOTED PER AV ONE-LINES	N/A	N/A	N/A
14	AVO	AUDIO-VIDEO OUTPUT PANEL	4-11/16" SQ., 2-1/8" DEEP	1-DEVICE	+60" TO CENTER	1 EA. 1"C	✓			COMMSCOPE / AV AS REQ'D	CAT6A (RISER): UN884026814/10 (BLUE)	N/A	✓			AS REQ'D	AS NOTED PER AV ONE-LINES	N/A	N/A	N/A
15	C	COMBINATION FLUSH MOUNTED CLOCK/SPEAKER DEVICE	4-11/16" SQ., 2-1/8" DEEP	2-DEVICE	+96" TO CENTER	1 EA. 3/4"C	✓			COMMSCOPE	CAT6A (RISER): UN884026814/10 (BLUE)	N/A	✓			AS REQ'D	AS NOTED PER AV ONE-LINES	N/A	N/A	16 T-804
16		LED TV/MONITOR W/ MOUNT	4-11/16" SQ., 2-1/8" DEEP	1-DEVICE	CAFE: 39" / PC CONF.: 45" TO CENTER	1 EA. 1"C	✓			COMMSCOPE / AV AS REQ'D	CAT6A (RISER): UN884026814/10 (BLUE)	N/A	✓			AS REQ'D	AS NOTED PER AV ONE-LINES	N/A	N/A	2 T-805
17		SURVEILLANCE CAMERA	4-11/16" SQ., 2-1/8" DEEP	1-DEVICE	+96" TO CENTER	1 EA. 1"C	✓			COMMSCOPE	CAT6A (RISER): UN884026814/10 (BLUE)	N/A	✓			VERKADA	INDOOR:CD63-E OUTDOOR: CD63-E	N/A	N/A	1 T-806, 2 T-806, 3 T-806, 4 T-806
18		PROXIMITY MOTION SENSOR	4-11/16" SQ., 2-1/8" DEEP	1-DEVICE	+96" TO CENTER	1 EA. 1"C	✓			BELDEN	638AMJ	N/A	✓			DMP	ISC-CDL1-W15G	N/A	N/A	5 T-806
19		DOOR CONTACT	N/A	N/A	TOP OF DOOR	1 EA. 1"C	✓			BELDEN	638AMJ	N/A	✓			ABLOY	EA 500	N/A	N/A	N/A
20	FB	FLOOR BOX	4-11/16" SQ., 2-1/8" DEEP	1-DEVICE	FLOOR MOUNTED	1 EA. 1"C	✓			COMMSCOPE	CAT6A (RISER): UN884026814/10 (BLUE)	N/A	✓			FSR	EDIT	N/A	N/A	N/A
21	CR	ACCESS CONTROL, PROXIMITY CARD READER	4-11/16" SQ., 2-1/8" DEEP	1-DEVICE	+48" TO TOP	1 EA. 3/4"C	✓			BELDEN	638AMJ	N/A	✓			HID	SIGNO 40	N/A	N/A	N/A
22	AH	ACCESS CONTROL HARDWARE (PROVIDED BY DIVISION 08)	N/A	N/A	N/A	N/A	✓			BELDEN	638AMJ	N/A	✓			PER DIVISION 08	HARDWARE CONSULTANT	N/A	N/A	8 T-806, 9 T-806, 10 T-806

NOTES:

1. REFERENCE AUDIO VISUAL SPECIFICATIONS AND MANUFACTURER GUIDELINES WHEN DETERMINING BACK BOX SIZE FOR AUDIOVISUAL EQUIPMENT IF NOT SPECIFIED ABOVE.
2. USE EXTENSION RINGS, DEPTH AS REQUIRED, ON ALL BACK BOX LOCATIONS.
3. REFERENCE ANSI / EIA / TIA STANDARDS AS APPLICABLE.
4. ROUTE CONDUIT IN-WALL TO NEAREST TO ACCESSIBLE CEILING SPACE. CONTRACTOR SHALL NOTIFY ARCHITECT/DESIGNER IF CONDUITS ARE UNABLE TO BE INSTALLED IN-WALL PRIOR TO SURFACE MOUNTED CONDUIT INSTALLATION.
5. ALL PLASTER RINGS AND INSIDE OF BACK BOX SHALL BE PAINTED LIGHT BLUE FOR PRE-SHEETROCK / WALL PANEL IN-WALL INFRASTRUCTURE INSPECTION.

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DRAWING SUBMITTAL SCHEDULE	
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DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO: 22434-E-02

TECHNOLOGY LEGENDS

T-002

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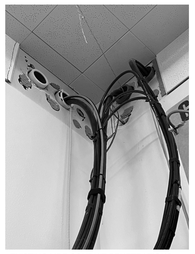


EXISTING MDF CONDUIT PENETRATIONS

EXISTING BACKBONE CONDUITS UNDER CANOPY, (E) PB-1

EXISTING BACKBONE CONDUITS UNDER CANOPY, (E) PB-1 TO (E) PB-2

EXISTING PULL BOX, (E) PB-2 CONDUIT TRANSITION

EXISTING GROUND BOX, (E) GB-2

EXISTING GROUND BOX, (E) GB-2 CONDUITS

KEY NOTES

(#)

1 NEW MDF EQUIPMENT RACK, FLOOR MOUNTED WITH 6"X6" VERTICAL WIRE MANAGEMENT AT BOTH SIDES. PROVIDE 1 EA. 220VAC/30A AND 1 EA. 120VAC/20A DEDICATED CIRCUITS. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

2 NEW IDF EQUIPMENT RACK, WALL MOUNTED ENCLOSURE. PROVIDE 1 EA. 120VAC/20A DEDICATED CIRCUIT. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

3 NEW GROUND BOX WITH BASE EXTENSIONS AND LID. LID SHALL BE H20 TRAFFIC RATED AT ALL VEHICLE OR HIGH WEIGHT CAPACITY AREAS AND CONCRETE LID AT OTHER LOCATIONS, TYP., U.N.O. LIDS SHALL BE LABELED "SIGNAL" OR "COMMUNICATIONS". TECHNOLOGY

TECHNOLOGY GENERAL SHEET NOTES:

A. REFER TO ARCHITECTURAL DRAWINGS FOR ALL BUILDING PLANS AND DIMENSIONS.

B. REFER TO ELECTRICAL DRAWINGS FOR ALL ADDITIONAL INFORMATION.

C. CONTRACTOR SHALL UTILIZE 3-DIMENSION TECHNOLOGY REVIT BIM MODEL FOR TRADES COORDINATION IN CONSTRUCTION. SYSTEMS INSTALLATION SHALL BE IN GENERAL PLACEMENT OF DESIGN AS SHOWN ON APPROVED CONSTRUCTION DRAWINGS AND/OR REVIT BIM MODELS.

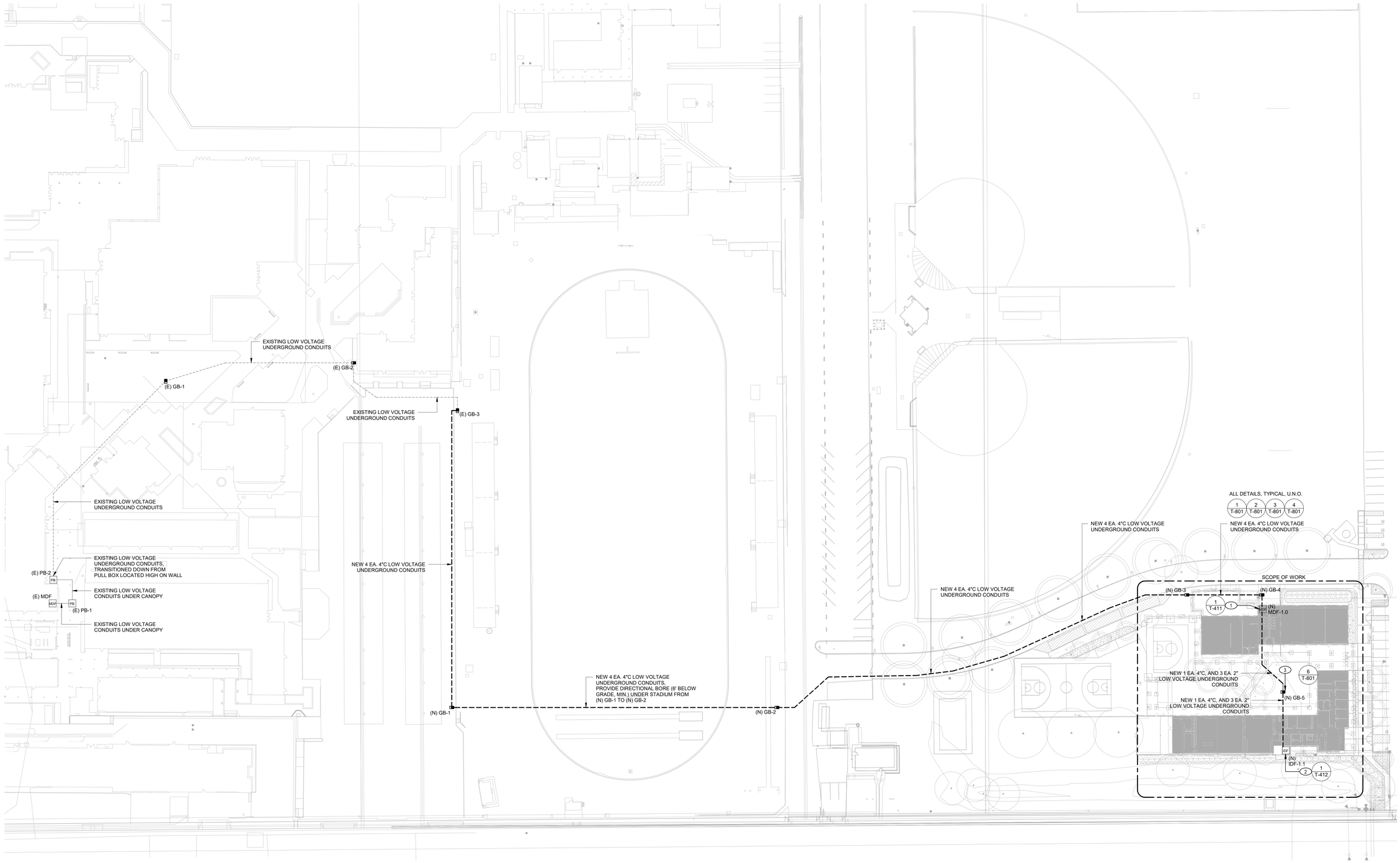
D. ALL EQUIPMENT SHOWN ON CONSTRUCTION DOCUMENTS SHALL BE NEW, CONTRACTOR FURNISHED/CONTRACTOR INSTALLED UNLESS SPECIFIED ON DRAWINGS AND/OR SCHEDULES.

E. ALL TECHNOLOGY SYSTEMS MUD RINGS SHALL BE PAINTED BLUE FOR A PRE-DRYWALL / FINISH INSPECTION OF IN-WALL INFRASTRUCTURE.

F. ALL EXPOSED CONDUITS SHALL BE PRIMED WHITE AND PAINTED TO MATCH SURROUNDING AREA.

G. NETWORK STATION CABLING SHALL BE TERMINATED IN PATCH PANEL(S) IN SEQUENTIAL ORDER OF ROOM NUMBER, DROP ID. CABLES SHALL BE MACHINE LABELED AT PATCH PANEL FACE, AND AT CATEGORY CABLE (BOTH ENDS AS SHOWN ON DETAILS/SPECIFICATIONS).

H. ALL KEYNOTES ARE TYPICAL UNLESS STATED OTHERWISE.



1 **TECHNOLOGY SITE PLAN**
SCALE: 1" = 40'-0"

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TECHNOLOGY SITE PLAN

T-101

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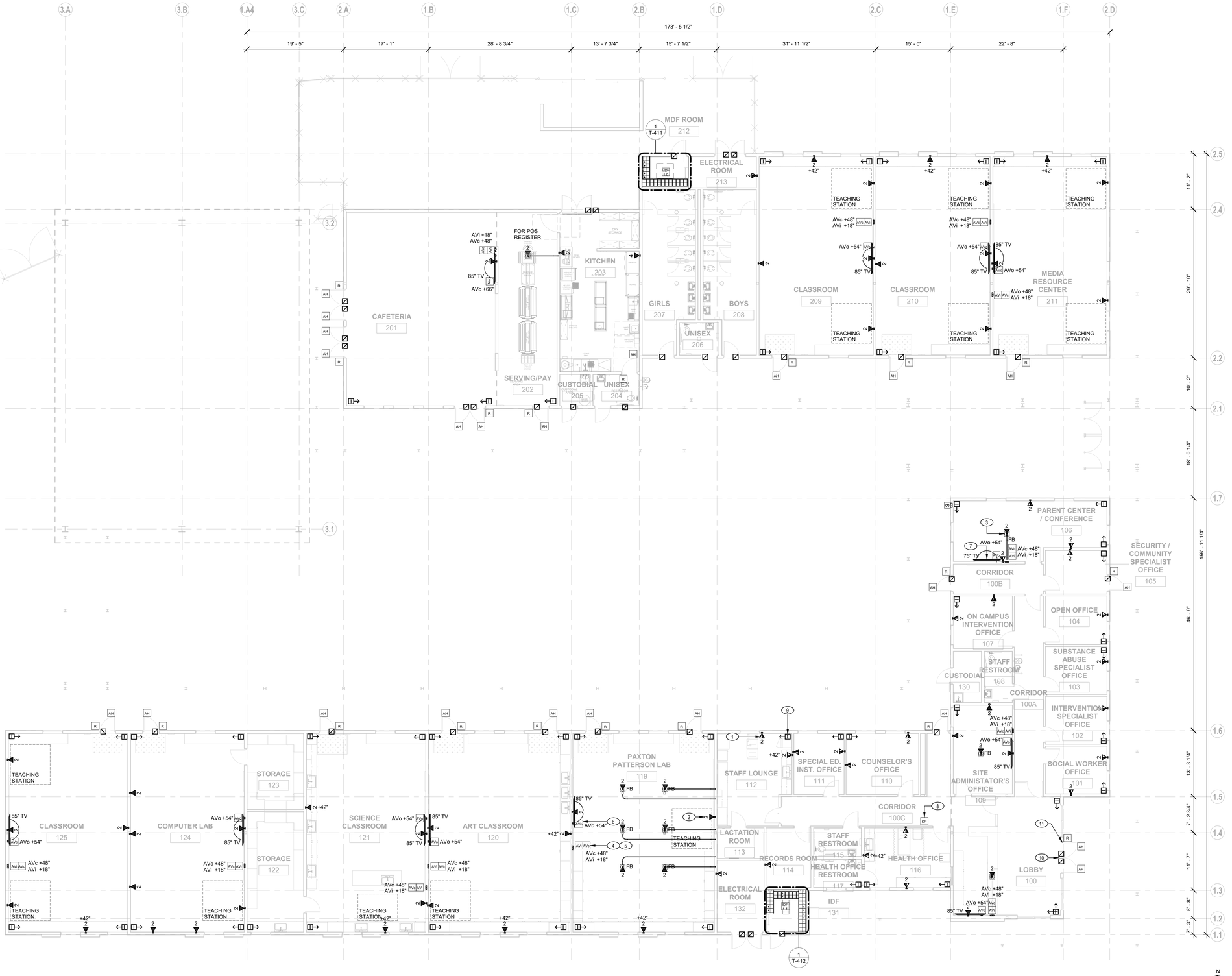

1 TECHNOLOGY FLOOR PLAN

SCALE: 1/8" = 1'-0"

TECHNOLOGY GENERAL SHEET NOTES:

A. REFER TO ARCHITECTURAL DRAWINGS FOR ALL BUILDING PLANS AND DIMENSIONS.

B. REFER TO ELECTRICAL DRAWINGS FOR ALL ADDITIONAL INFORMATION.

C. CONTRACTOR SHALL UTILIZE 3-DIMENSION TECHNOLOGY REVIT BIM MODEL FOR TRADES COORDINATION IN CONSTRUCTION. SYSTEMS INSTALLATION SHALL BE IN GENERAL PLACEMENT OF DESIGN AS SHOWN ON APPROVED CONSTRUCTION DRAWINGS AND/OR REVIT BIM MODELS.

D. ALL EQUIPMENT SHOWN ON CONSTRUCTION DOCUMENTS SHALL BE NEW, CONTRACTOR FURNISHED/CONTRACTOR INSTALLED UNLESS SPECIFIED ON DRAWINGS AND/OR SCHEDULES.

E. ALL TECHNOLOGY SYSTEMS MUD RINGS SHALL BE PAINTED BLUE FOR A PRE-DRYWALL / FINISH INSPECTION OF IN-WALL INFRASTRUCTURE.

F. ALL EXPOSED CONDUITS SHALL BE PRIMED WHITE AND PAINTED TO MATCH SURROUNDING AREA.

G. NETWORK STATION CABLING SHALL BE TERMINATED IN PATCH PANEL(S) IN SEQUENTIAL ORDER OF ROOM NUMBER, DROP ID. CABLES SHALL BE MACHINE LABELED AT PATCH PANEL FACE, AND AT CATEGORY CABLE (BOTH ENDS AS SHOWN ON DETAILS/SPECIFICATIONS).

H. ALL KEYNOTES ARE TYPICAL UNLESS STATED OTHERWISE.

KEY NOTES

(#)

1 NEW WALL NETWORK DATA / VOICE WORK AREA OUTLET (RJ45-F). PROVIDE JACK QTY. AS NOTED ON PLANS. INSTALL HORIZONTAL PATHWAYS, CATEGORY CABLING, JACKS, ALL ASSOCIATED EQUIPMENT AND CABLE LABELS, AND TEST PERMANENT LINK. CABLES SHALL MAINTAIN PROPER BEND RADIUS AND BE KINK-FREE.

2 NEW WALL NETWORK DATA WORK AREA OUTLET (RJ45-F). PROVIDE JACK QTY. AS NOTED ON PLANS. INSTALL HORIZONTAL PATHWAYS, CATEGORY CABLING, JACKS, ALL ASSOCIATED EQUIPMENT AND CABLE LABELS, AND TEST PERMANENT LINK. CABLES SHALL MAINTAIN PROPER BEND RADIUS AND BE KINK-FREE.

3 NEW FLOOR NETWORK DATA WORK AREA OUTLET (RJ45-F). PROVIDE JACK QTY. AS NOTED ON PLANS. INSTALL HORIZONTAL PATHWAYS, CATEGORY CABLING, JACKS, ALL ASSOCIATED EQUIPMENT AND CABLE LABELS, AND TEST PERMANENT LINK. CABLES SHALL MAINTAIN PROPER BEND RADIUS AND BE KINK-FREE.

4 NEW AUDIOVISUAL CONTROL PANEL. INSTALL HORIZONTAL PATHWAYS, CONTROL PANEL CABLING, CONTROL PANEL, ALL ASSOCIATED EQUIPMENT AND CABLE LABELS, CONFIGURE, AND TEST. PROVIDE PRELIMINARY USER INTERFACE SCREENS TO OWNER/ARCHITECT/DESIGNER FOR REVIEW AND APPROVAL BEFORE INSTALLATION.

5 NEW AUDIOVISUAL INPUT PLATE. INSTALL HORIZONTAL PATHWAYS, INPUT PLATE CABLING, INPUT PLATE, ALL ASSOCIATED EQUIPMENT AND CABLE LABELS, CONFIGURE, AND TEST.

6 NEW AUDIOVISUAL OUTPUT PLATE. INSTALL HORIZONTAL PATHWAYS, INPUT PLATE CABLING, INPUT PLATE, ALL ASSOCIATED EQUIPMENT AND CABLE LABELS, CONFIGURE, AND TEST.

7 NEW LED TV/MONITOR WITH MOUNT. INSTALL HORIZONTAL PATHWAYS, LED TV/MONITOR WALL MOUNT, LED TV/MONITOR, AV SYSTEM CABLING, AND WALL PLATES. PROVIDE 1 EA. 120VAC/15A DEDICATED CIRCUIT. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

8 NEW INTRUSION ALARM CONTROL KEYPAD. INSTALL HORIZONTAL PATHWAYS, HARDWARE CABLING, KEYPAD, ALL ASSOCIATED EQUIPMENT AND CABLE LABELS, CONFIGURE, AND TEST.

9 NEW INTRUSION ALARM PROXIMITY MOTION SENSOR. INSTALL HORIZONTAL PATHWAYS, HARDWARE CABLING, MOTION SENSOR, ALL ASSOCIATED EQUIPMENT AND CABLE LABELS, CONFIGURE, AND TEST.

10 NEW INTRUSION ALARM DOOR CONTACT. INSTALL HORIZONTAL PATHWAYS, HARDWARE CABLING, CONCEALED DOOR CONTACT AT UPPER FRAME, ALL ASSOCIATED EQUIPMENT AND CABLE LABELS, CONFIGURE, AND TEST.

11 PROVIDE (1) EA. 1/2" CONDUIT TO TOP OF DOOR FRAME FOR FUTURE ACCESS CONTROL.

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TECHNOLOGY - FLOOR PLAN

T-201

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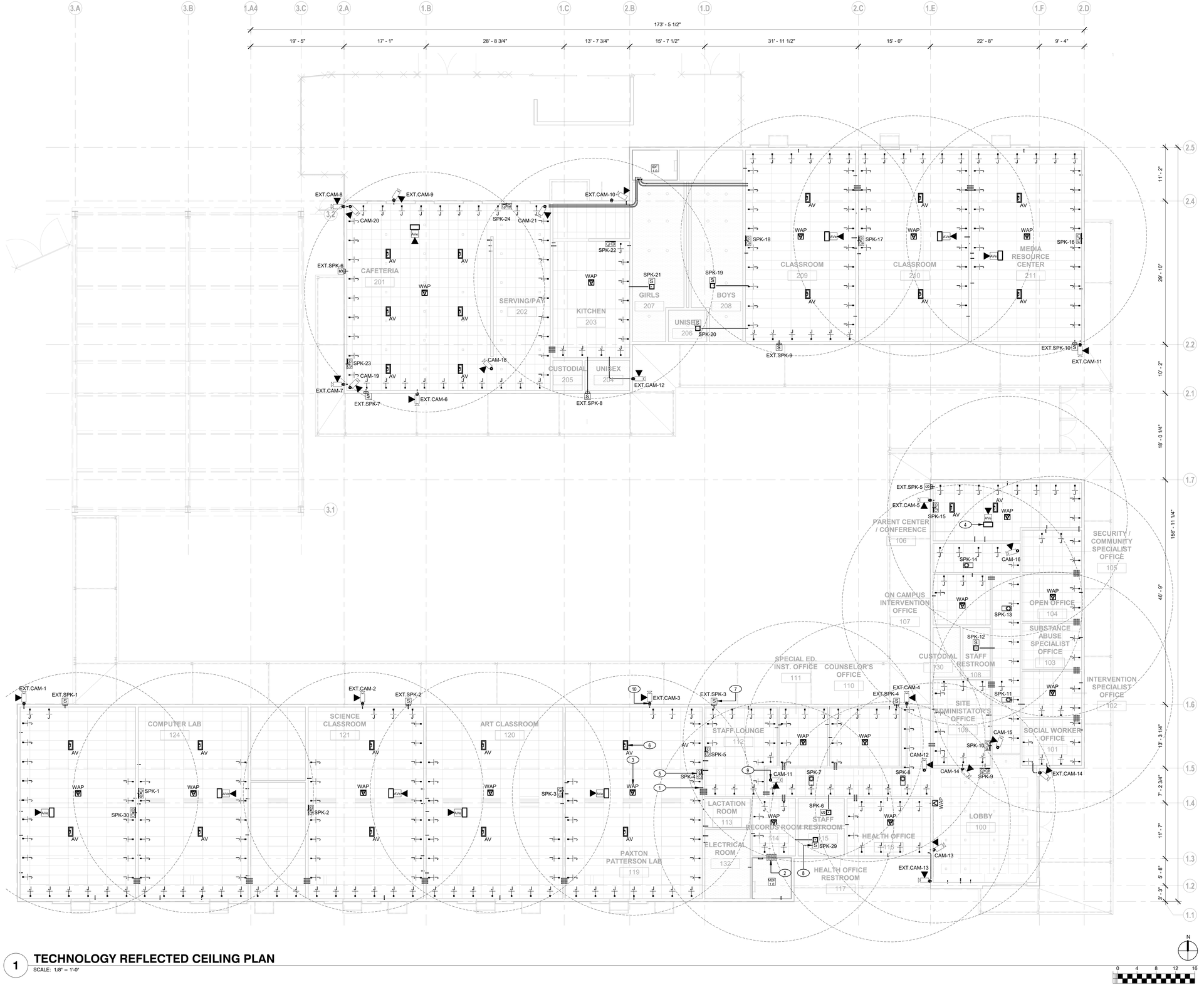

1 **TECHNOLOGY REFLECTED CEILING PLAN**
SCALE: 1/8" = 1'-0"

TECHNOLOGY GENERAL SHEET NOTES:

A. REFER TO ARCHITECTURAL DRAWINGS FOR ALL BUILDING PLANS AND DIMENSIONS.

B. REFER TO ELECTRICAL DRAWINGS FOR ALL ADDITIONAL INFORMATION.

C. CONTRACTOR SHALL UTILIZE 3-DIMENSION TECHNOLOGY REVIT BIM MODEL FOR TRADES COORDINATION IN CONSTRUCTION. SYSTEMS INSTALLATION SHALL BE IN GENERAL PLACEMENT OF DESIGN AS SHOWN ON APPROVED CONSTRUCTION DRAWINGS AND/OR REVIT BIM MODELS.

D. ALL EQUIPMENT SHOWN ON CONSTRUCTION DOCUMENTS SHALL BE NEW. CONTRACTOR FURNISHED/CONTRACTOR INSTALLED UNLESS SPECIFIED ON DRAWINGS AND/OR SCHEDULES.

E. ALL TECHNOLOGY SYSTEMS MUD RINGS SHALL BE PAINTED BLUE FOR A PRE-DRYWALL / FINISH INSPECTION OF IN-WALL INFRASTRUCTURE.

F. ALL EXPOSED CONDUITS SHALL BE PRIMED WHITE AND PAINTED TO MATCH SURROUNDING AREA.

G. NETWORK STATION CABLING SHALL BE TERMINATED IN PATCH PANEL(S) IN SEQUENTIAL ORDER OF ROOM NUMBER, DROP ID. CABLES SHALL BE MACHINE LABELED AT PATCH PANEL FACE, AND AT CATEGORY CABLE (BOTH ENDS AS SHOWN ON DETAILS/SPECIFICATIONS).

H. ALL KEYNOTES ARE TYPICAL UNLESS STATED OTHERWISE.

KEY NOTES

(#)

1 NEW 1 EA/ 3/4" CONDUIT
2 NEW 4 EA. 4" CONDUITS
3 NEW CEILING WIRELESS ACCESS POINT STATION DROP (RJ45-F). PROVIDE 2 EA. CABLES AT ALL LOCATIONS. INSTALL HORIZONTAL PATHWAYS, CATEGORY CABLING, JACKS, ALL ASSOCIATED EQUIPMENT AND CABLE LABELS, AND TEST PERMANENT LINK. CABLES SHALL MAINTAIN PROPER BEND RADIUS AND BE KINK-FREE.
4 NEW AUDIOVISUAL EQUIPMENT ENCLOSURE. INSTALL HARDWARE, CONNECT TO NETWORK, CONFIGURE, TEST, AND PROVIDE OWNER TRAINING ON ALL SYSTEM FEATURES. PROVIDE 1 EA. 120VAC/15A DEDICATED CIRCUIT. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
5 NEW CLOCK / SPEAKER COMBINATION BOX. INSTALL HORIZONTAL PATHWAYS, CLOCK CABLING, COMBO BOX, CLOCK, SPEAKER, ALL ASSOCIATED EQUIPMENT AND CABLE LABELS, CONFIGURE TO MASTER CLOCK AND INTERCOM MASTER STATION, AND TEST.
6 NEW CEILING LAY-IN INTERCOM / PAGING SPEAKER. INSTALL HORIZONTAL PATHWAYS, SPEAKER CABLING, SPEAKER, ALL ASSOCIATED EQUIPMENT AND CABLE LABELS, CONFIGURE, AND TEST.
7 NEW EXTERIOR WALL INTERCOM / PAGING SPEAKER. INSTALL HORIZONTAL PATHWAYS, BACK BOX, SPEAKER CABLING, SPEAKER, ALL ASSOCIATED EQUIPMENT AND CABLE LABELS, CONFIGURE, AND TEST. CAULK AND SEAL BACK BOX AT ALL EXTERIOR WALL FINISH EDGES AND BOX FASTENER LOCATIONS FOR WATER-TIGHT CONNECTION.
8 NEW CEILING HARD LID INTERCOM / PAGING SPEAKER. INSTALL HORIZONTAL PATHWAYS, BACK BOX, SPEAKER CABLING, SPEAKER, ALL ASSOCIATED EQUIPMENT AND CABLE LABELS, CONFIGURE, AND TEST.
9 NEW CEILING SURVEILLANCE CAMERA WITH SMOKE DOME VANDAL COVER. INSTALL HORIZONTAL PATHWAYS, CAMERA CABLING, CAMERA, ALL ASSOCIATED EQUIPMENT AND CABLE LABELS, CONFIGURE, AND TEST.
10 NEW EXTERIOR WALL SURVEILLANCE CAMERA WITH IR SENSOR, SMOKED DOME VANDAL COVER AND SUN SHIELD. INSTALL HORIZONTAL PATHWAYS, EXTERIOR BACK BOX, CAMERA CABLING, CAMERA, ACCESSORIES, ALL ASSOCIATED EQUIPMENT AND CABLE LABELS, CONFIGURE, AND TEST.

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TECHNOLOGY - REFLECTED CEILING PLAN

T-211

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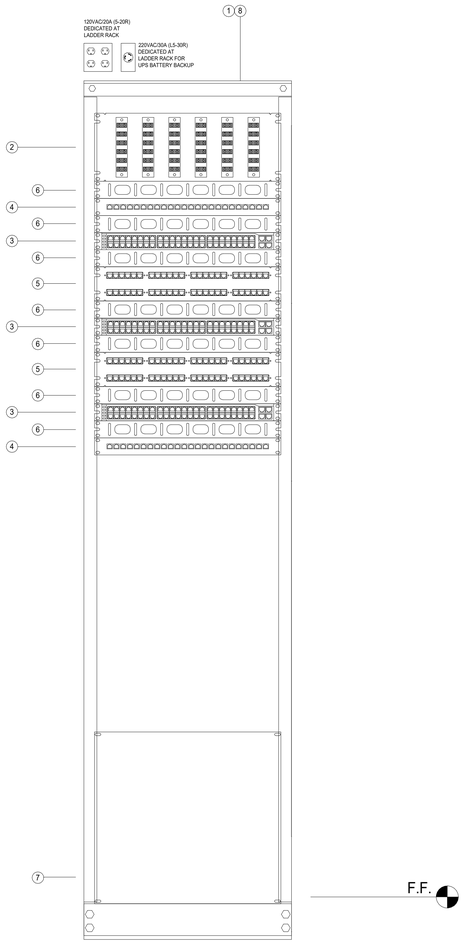
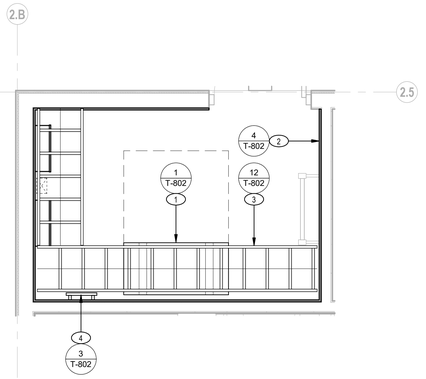
MAJOR EQUIPMENT SCHEDULE

TAG ID	DESCRIPTION	MANUFACTURER	MODEL/PART NUMBER	MAX. LOAD
1	EQUIPMENT RACK, 4-POST (45RU / CAGE NUT)	CHATSWORTH	R4CN-4536B	1500 LBS.
2	FIBER TERMINATION UNIT	CORNING	CCH-04U	N/A
	OS2 ADAPTER CASSETTE FOR ABOVE, TYPE LC	CORNING	CCH-CP12-B3	N/A
3	MAIN DATA ROUTER/SWITCH - 4 RU	OFOI	OFOI	N/A
	FIBER TRANSCEIVER MODULE, LC (2 EA)	OFOI	OFOI	N/A
	DATA SWITCH, 48 PORT POE	OFOI	OFOI	N/A
	FIBER TRANSCEIVER MODULE, LC (2 EA)	OFOI	OFOI	N/A
4	PATCH PANEL W/ REAR WIRE MANAGER (24-PORT)	COMMSCOPE	CPP-UDDM-SL-1U-24	N/A
5	PATCH PANEL W/ REAR WIRE MANAGER (48-PORT)	COMMSCOPE	CPP-UDDM-SL-1U-48	N/A
6	HORIZONTAL WIRE MANAGE (2-INCH DEPTH W/ COVER)	LEVITON	PHCM-1-2	N/A
7	UPS BATTERY BACKUP - (120VAC/20A)	APC	SUA5000R5TXFMR	N/A
	NETWORK MANAGEMENT CARD	APC	AP9641	N/A
8	VERTICAL POWER DISTRIBUTION BAR (20-OUTLET) (20A)	MIDDLE ATLANTIC	PDT-2020TL-NS	N/A

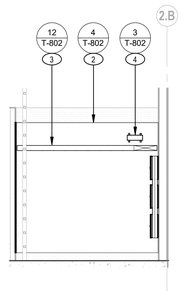


1 T-802 — SEE DETAIL FOR RACK ANCHORAGE REQUIREMENTS — MDF-1.0

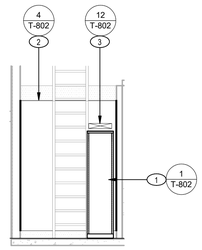
MDF-1.0 RACK ELEVATION AND EQUIPMENT SCHEDULE | SCALE: N/A | 5



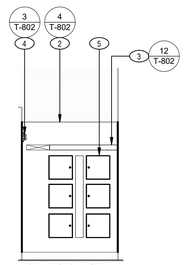
1 **TECHNOLOGY ENLARGED FLOOR PLAN - MDF 1.0**
SCALE: 1/2" = 1'-0"



2 **TECHNOLOGY MDF 1.0 - SOUTH ELEVATION**
SCALE: 1/4" = 1'-0"



3 **TECHNOLOGY MDF 1.0 - EAST ELEVATION**
SCALE: 1/4" = 1'-0"



4 **TECHNOLOGY MDF 1.0 - WEST ELEVATION**
SCALE: 1/4" = 1'-0"

TECHNOLOGY GENERAL SHEET NOTES:

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B. REFER TO ELECTRICAL DRAWINGS FOR ALL ADDITIONAL INFORMATION.

C. CONTRACTOR SHALL UTILIZE 3-DIMENSION TECHNOLOGY REVIT BIM MODEL FOR TRADES COORDINATION IN CONSTRUCTION. SYSTEMS INSTALLATION SHALL BE IN GENERAL PLACEMENT OF DESIGN AS SHOWN ON APPROVED CONSTRUCTION DRAWINGS AND/OR REVIT BIM MODELS.

D. ALL EQUIPMENT SHOWN ON CONSTRUCTION DOCUMENTS SHALL BE NEW, CONTRACTOR FURNISHED/CONTRACTOR INSTALLED UNLESS SPECIFIED ON DRAWINGS AND/OR SCHEDULES.

E. ALL TECHNOLOGY SYSTEMS MUD RINGS SHALL BE PAINTED BLUE FOR A PRE-DRYWALL / FINISH INSPECTION OF IN-WALL INFRASTRUCTURE.

F. ALL EXPOSED CONDUITS SHALL BE PRIMED WHITE AND PAINTED TO MATCH SURROUNDING AREA.

G. NETWORK STATION CABLING SHALL BE TERMINATED IN PATCH PANEL(S) IN SEQUENTIAL ORDER OF ROOM NUMBER, DROP ID. CABLES SHALL BE MACHINE LABELED AT PATCH PANEL FACE, AND AT CATEGORY CABLE (BOTH ENDS AS SHOWN ON DETAILS/SPECIFICATIONS).

H. ALL KEYNOTES ARE TYPICAL UNLESS STATED OTHERWISE.

KEY NOTES

(#)

1 NEW MDF EQUIPMENT RACK, FLOOR MOUNTED WITH 6"X6" VERTICAL WIRE MANAGEMENT AT BOTH SIDES. PROVIDE 1 EA. 220VAC/30A AND 1 EA. 120VAC/20A DEDICATED CIRCUITS. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

2 NEW UNUSED 4'X8'X3/4" FIRE RATED PLYWOOD, PAINTED COLOR: "WHITE". CUT PLYWOOD TO FIT LENGTH OF ALL ROOM WALLS. RATED PLYWOOD "AC" GRADE SIDE WALL BE FACING THE INTERIOR OF THE ROOM AND ALL FIRE RATED MARKINGS SHALL NOT BE PAINTED.

3 NEW OVERHEAD 18"-WIDE LADDER RACK, COLOR: "BLACK".

4 NEW LOW VOLTAGE TECHNOLOGY GROUND BUS BAR. GROUND LOW VOLTAGE TECHNOLOGY BUS BAR TO MAIN ELECTRICAL SYSTEM. SEE ELECTRICAL DOCUMENTS FOR ADDITIONAL INFORMATION.

5 NEW 18"X18"X6" NEMA1 WALL / CEILING MOUNTED PULL BOX WITH HINGED LOCKING LID.

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SS ☑ FLS ☑ ACS ☑
DATE: 04/28/2026

SGPA
ARCHITECTURE AND PLANNING
3111 CAMINO DEL RIO NORTH,
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619.297.0131
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LP CONSULTING ENGINEERS
MEP & FS / Sustainability / CxA
1209 Pleasant Grove Blvd.
Roseville, CA 95678
p 916-771-0778
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Job #: 24-2161

REGISTERED PROFESSIONAL ENGINEER
REMI S. ZEID
No. E 16762
EXP. 9-30-26
ELECTRICAL
STATE OF CALIFORNIA

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KERN HIGH SCHOOL DISTRICT
5801 SUNDALE AVE.
BAKERSFIELD, CA 93309

CENTRAL VALLEY
CONTINUATION HIGH SCHOOL CAMPUS
526 MANNEL AVENUE
SHAFTER, CA 93263

DRAWING SUBMITTAL SCHEDULE	
100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO: 22434-E-02

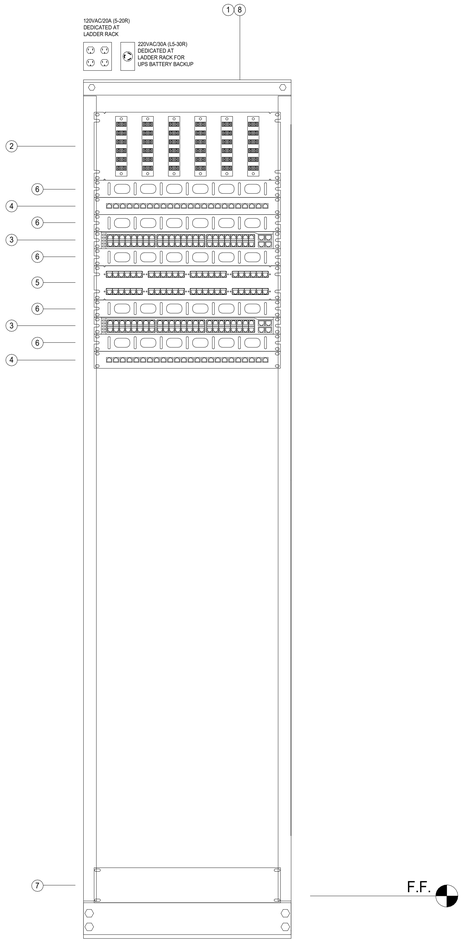
TECHNOLOGY MDF 1.0 RACK ELEVATION AND SCHEDULE

T-411

4/16/2026 10:42:29 AM Autodesk Docs://KHSD_Central Valley Continuation HS\24-2161 Central Valley CHS_MEP_FP_T_R23.rvt

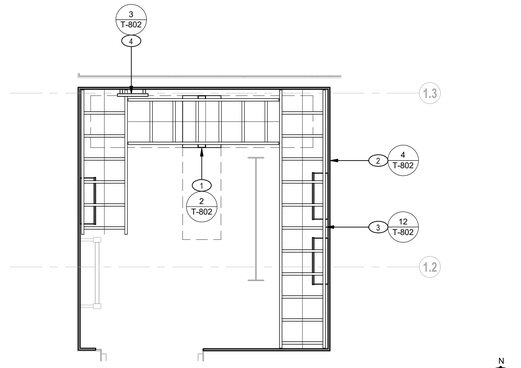
MAJOR EQUIPMENT SCHEDULE

TAG ID	DESCRIPTION	MANUFACTURER	MODEL/PART NUMBER	MAX. LOAD
1	EQUIPMENT RACK, 2-POST (45RU)	MIDDLE ATLANTIC	RL12-45	1000 LBS.
2	FIBER TERMINATION UNIT	CORNING	CCH-04U	N/A
	OS2 ADAPTER CASSETTE FOR ABOVE, TYPE LC	CORNING	CCH-CP12-B3	N/A
3	MAIN DATA ROUTER/SWITCH - 4 RU	OFOI	OFOI	N/A
	FIBER TRANSCEIVER MODULE, LC (2 EA)	OFOI	OFOI	N/A
	DATA SWITCH, 48 PORT POE	OFOI	OFOI	N/A
	FIBER TRANSCEIVER MODULE, LC (2 EA)	OFOI	OFOI	N/A
4	PATCH PANEL W/ REAR WIRE MANAGER (24-PORT)	COMMSCOPE	CPP-UDDM-SL-1U-24	N/A
5	PATCH PANEL W/ REAR WIRE MANAGER (48-PORT)	COMMSCOPE	CPP-UDDM-SL-1U-48	N/A
6	HORIZONTAL WIRE MANAGE (2-INCH DEPTH W/ COVER)	LEVITON	PHCM-1-2	N/A
7	UPS BATTERY BACKUP - (120VAC/20A)	APC	APC SMT2200RM2U-C	N/A
	NETWORK MANAGEMENT CARD	APC	AP9641	N/A
8	VERTICAL POWER DISTRIBUTION BAR (20-OUTLET) (20A)	MIDDLE ATLANTIC	PDT-2020TL-NS	N/A

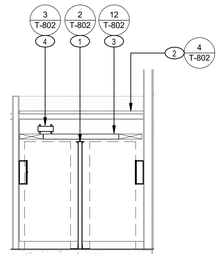


2 / T-802 — SEE DETAIL FOR RACK ANCHORAGE REQUIREMENTS
IDF-1.1

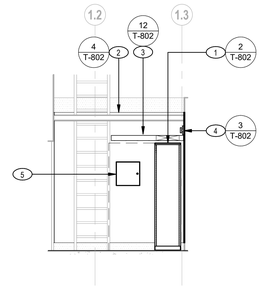
IDF-1.1 RACK ELEVATION AND EQUIPMENT SCHEDULE | SCALE: N/A | 5



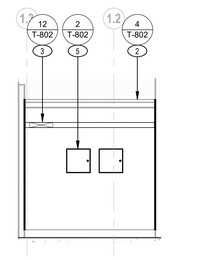
1 TECHNOLOGY ENLARGED FLOOR PLAN - IDF 1.1
SCALE: 1/2" = 1'-0"



2 TECHNOLOGY IDF 1.1 - NORTH ELEVATION
SCALE: 1/4" = 1'-0"



3 TECHNOLOGY IDF 1.1 - WEST ELEVATION
SCALE: 1/4" = 1'-0"



4 TECHNOLOGY IDF 1.1 - EAST ELEVATION
SCALE: 1/4" = 1'-0"

TECHNOLOGY GENERAL SHEET NOTES:

A. REFER TO ARCHITECTURAL DRAWINGS FOR ALL BUILDING PLANS AND DIMENSIONS.

B. REFER TO ELECTRICAL DRAWINGS FOR ALL ADDITIONAL INFORMATION.

C. CONTRACTOR SHALL UTILIZE 3-DIMENSION TECHNOLOGY REVIT BIM MODEL FOR TRADES COORDINATION IN CONSTRUCTION. SYSTEMS INSTALLATION SHALL BE IN GENERAL PLACEMENT OF DESIGN AS SHOWN ON APPROVED CONSTRUCTION DRAWINGS AND/OR REVIT BIM MODELS.

D. ALL EQUIPMENT SHOWN ON CONSTRUCTION DOCUMENTS SHALL BE NEW, CONTRACTOR FURNISHED/CONTRACTOR INSTALLED UNLESS SPECIFIED ON DRAWINGS AND/OR SCHEDULES.

E. ALL TECHNOLOGY SYSTEMS MUD RINGS SHALL BE PAINTED BLUE FOR A PRE-DRYWALL / FINISH INSPECTION OF IN-WALL INFRASTRUCTURE.

F. ALL EXPOSED CONDUITS SHALL BE PRIMED WHITE AND PAINTED TO MATCH SURROUNDING AREA.

G. NETWORK STATION CABLING SHALL BE TERMINATED IN PATCH PANEL(S) IN SEQUENTIAL ORDER OF ROOM NUMBER, DROP ID. CABLES SHALL BE MACHINE LABELED AT PATCH PANEL FACE, AND AT CATEGORY CABLE (BOTH ENDS AS SHOWN ON DETAILS/SPECIFICATIONS).

H. ALL KEYNOTES ARE TYPICAL UNLESS STATED OTHERWISE.

(#) KEY NOTES

1 NEW IDF EQUIPMENT RACK, WALL MOUNTED ENCLOSURE. PROVIDE 1 EA. 120VAC/20A DEDICATED CIRCUIT. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

2 NEW UNUSED 4'X8'X3/4" FIRE RATED PLYWOOD, PAINTED COLOR: "WHITE". CUT PLYWOOD TO FIT LENGTH OF ALL ROOM WALLS. RATED PLYWOOD "AC" GRADE SIDE WALL BE FACING THE INTERIOR OF THE ROOM AND ALL FIRE RATED MARKINGS SHALL NOT BE PAINTED.

3 NEW OVERHEAD 18"-WIDE LADDER RACK, COLOR: "BLACK".

4 NEW LOW VOLTAGE TECHNOLOGY GROUND BUS BAR. GROUND LOW VOLTAGE TECHNOLOGY BUS BAR TO MAIN ELECTRICAL SYSTEM. SEE ELECTRICAL DOCUMENTS FOR ADDITIONAL INFORMATION.

5 NEW 18"X18"X6" NEMA1 WALL / CEILING MOUNTED PULL BOX WITH HINGED LOCKING LID.

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100% CONSTRUCTION DOCUMENTS	11/21/2025
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DWG V3	04/28/2026

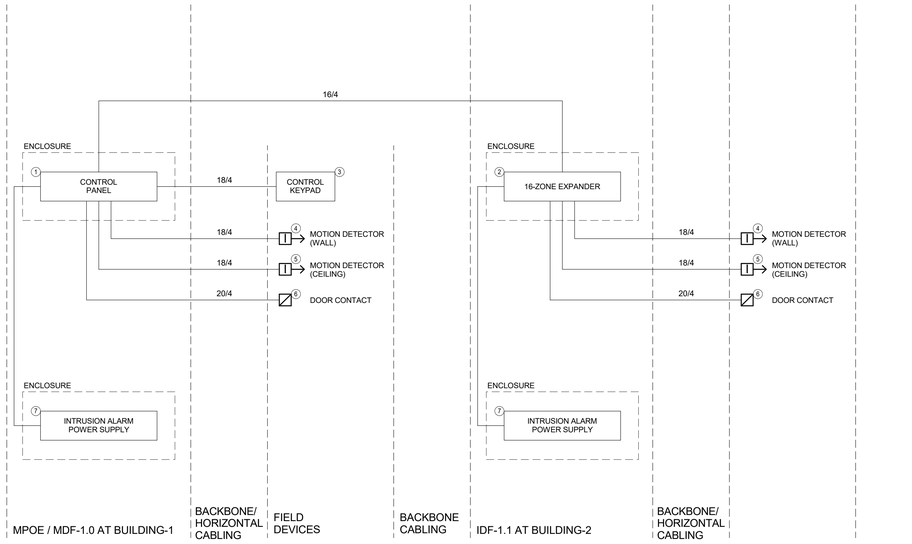
PROJECT NO: 22434-E-02

TECHNOLOGY IDF 1.1 RACK ELEVATION AND SCHEDULE

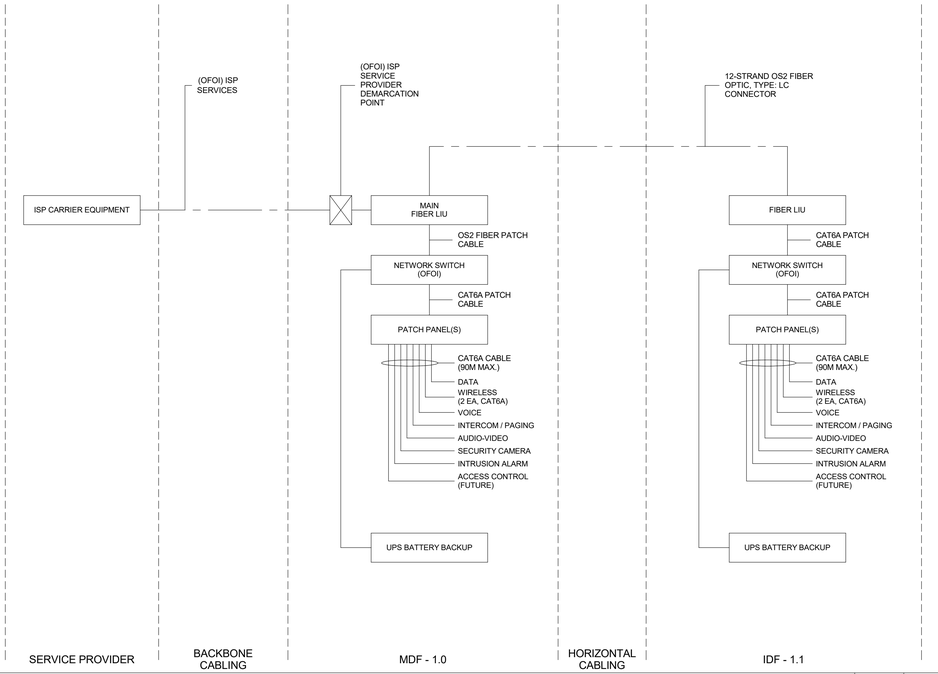
T-412

4/16/2026 10:42:40 AM Autodesk Docs://KHSD - Central Valley Continuation HS/24-2161 Central Valley CHS_MEP_FP_T_R23.rvt

MAJOR EQUIPMENT SCHEDULE				
TAG ID	DESCRIPTION	MANUFACTURER	MODEL/PART NUMBER	MAX. LOAD
1	INTRUSION ALARM CONTROL PANEL WITH ENCLOSURE	DMP	XR550	N/A
2	16-ZONE EXPANDER MODULE	DSC	714-16	N/A
3	7" COLOR TOUCH CONTROL KEYPAD	DSC	8860	N/A
4	INTRUSION DOOR CONTACT	ABLOY	EA500	N/A
5	INTRUSION MOTION DETECTOR (WALL)	DMP	CX-702	N/A
6	INTRUSION MOTION DETECTOR (CEILING)	DMP	SX-360Z	N/A
7	INTRUSION POWER SUPPLY, 24V-10A	SECURITRON	BPS-24-10	N/A
	CABLES AND CONNECTOR AS REQUIRED	LOT	LOT	N/A



INTRUSION ALARM SYSTEM ONE-LINE DIAGRAM | SCALE: N/A | 3



TECHNOLOGY NETWORK SYSTEM ONE-LINE DIAGRAM | SCALE: N/A | 1

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DWG V3	04/28/2026

PROJECT NO: 22434-E-02

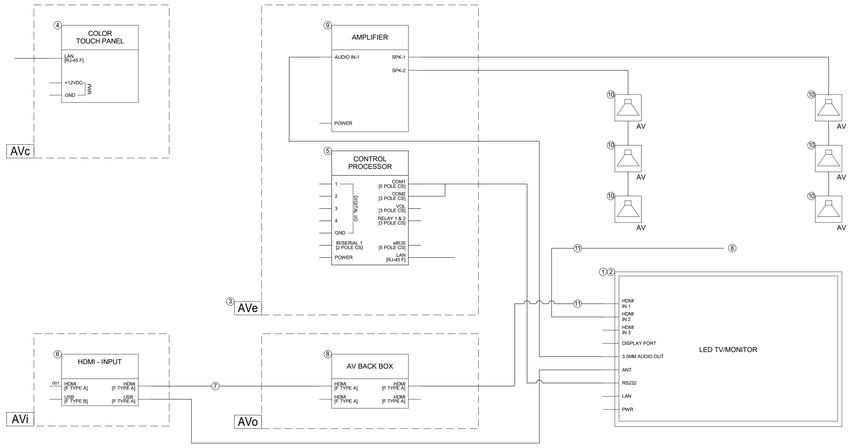
TECHNOLOGY ONE-LINE DIAGRAMS

T-501

4/6/2026 10:42:41 AM Autodesk Docs://KHSD - Central Valley Continuation HS/24-2161 Central Valley CVS_MEP_FP_T_R23.rvt

AUDIO-VISUAL MAJOR EQUIPMENT SCHEDULE

ID	DESCRIPTION	MANUFACTURER	MODEL / PART NUMBER	QTY.	MOUNTING HEIGHT	BACK BOX	TRIM RING
①	LED TV/MONITOR	VIEWSONIC	**IFP8650-5**	1	N/A	N/A	N/A
②	WALL MOUNT BRACKET FOR ABOVE	PEERLESS	**SF680P**	1	+60" AFF CENTER OF BOX	2 EA. 4-11/16" 2-1/8" DEEP	4-11/16, 1/2" RAISED 2-GANG
③	2'X2' AV CEILING ENCLOSURE	MONOPRICE	16088	1	CEILING	N/A	N/A
④	7" COLOR TOUCH CONTROL PANEL W/ VOLUME KNOB	EXTRON	**60-1563-02**	1	+45" AFF TOP OF BOX, MAX.	1 EA. 4-11/16" 2-1/8" DEEP	4-11/16, 1/2" RAISED 2-GANG
⑤	CONTROL PROCESSOR W/ RS232	EXTRON	**60-1911-01**	2	N/A	N/A	N/A
⑥	HDMI WALL PLATE W/ PIGTAIL - PASSIVE	EXTRON	**70-726-63**	1	+15" AFF BOTT. OF BOX, MIN.	1 EA. 4-11/16" 2-1/8" DEEP	4-11/16, 1/2" RAISED 2-GANG
⑦	HDMI PREMIUM HIGH SPEED OPTICAL CABLE - PLENUM, 35'	EXTRON	**26-726-35**	2	N/A	N/A	N/A
⑧	WIRELESS PRESENTATION GATEWAY	EXTRON	**60-1943-01**	1	AT AV ENCLOSURE	N/A	N/A
⑨	AUDIO AMPLIFIER, 70V 2X120W	JBL	**CSA2120**	1	AT AV ENCLOSURE	N/A	N/A
⑩	CEILING SPEAKER (PAIR)	JBL	**LCT 81C/T**	1	CEILING	N/A	N/A
⑪	ULTRA FLEXIBLE PREMIUM HIGH SPEED HDMI CABLE	EXTRON	**26-663-06**	3	N/A	N/A	N/A
	GENERAL CABLES AND CONNECTORS AS REQUIRED FOR COMPLETE SYSTEM OPERATION PER CONFIGURATION	LOT	**LOT**	LOT	N/A	N/A	N/A



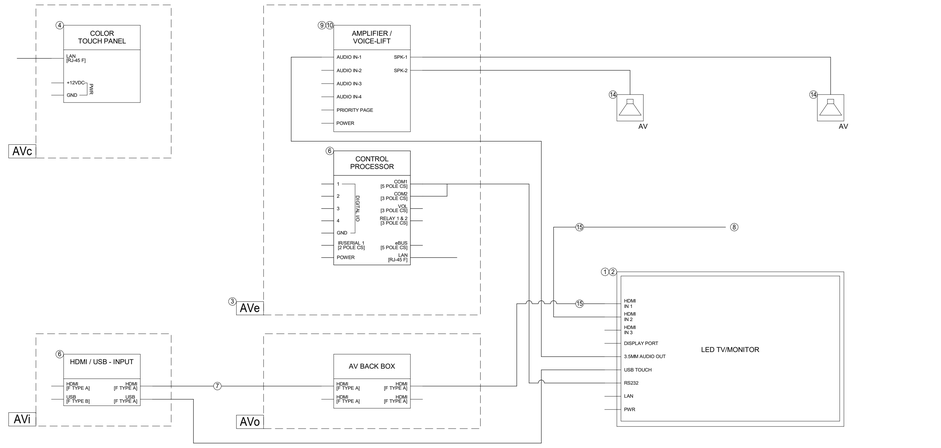
CAFETERIA AUDIO-VIDEO ONE-LINE SCHEMATIC | SCALE: N/A | 3

TURNOVER ITEMS

⑪ ⑫ ⑬

AUDIO-VISUAL MAJOR EQUIPMENT SCHEDULE

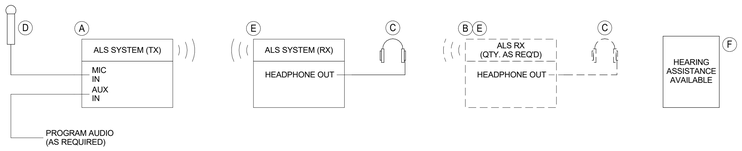
ID	DESCRIPTION	MANUFACTURER	MODEL / PART NUMBER	QTY.	MOUNTING HEIGHT	BACK BOX	TRIM RING
①	LED TV/MONITOR	VIEWSONIC	**IFP8650-5**	1	N/A	N/A	N/A
②	WALL MOUNT BRACKET FOR ABOVE	BALANCE BOX	**401A83 / 988B84**	1	+60" AFF CENTER OF BOX	2 EA. 4-11/16" 2-1/8" DEEP	4-11/16, 1/2" RAISED 2-GANG
③	2'X2' AV CEILING ENCLOSURE	MONOPRICE	16088	1	CEILING	N/A	N/A
④	7" COLOR TOUCH CONTROL PANEL W/ VOLUME KNOB	EXTRON	**60-1563-02**	1	+45" AFF TOP OF BOX, MAX.	1 EA. 4-11/16" 2-1/8" DEEP	4-11/16, 1/2" RAISED 2-GANG
⑤	CONTROL PROCESSOR W/ RS232	EXTRON	**60-1911-01**	2	N/A	N/A	N/A
⑥	HDMI WALL PLATE W/ PIGTAIL - PASSIVE	EXTRON	**70-726-63**	1	+15" AFF BOTT. OF BOX, MIN.	1 EA. 4-11/16" 2-1/8" DEEP	4-11/16, 1/2" RAISED 2-GANG
⑦	HDMI PREMIUM HIGH SPEED OPTICAL CABLE - PLENUM, 35'	EXTRON	**26-726-35**	2	N/A	N/A	N/A
⑧	WIRELESS PRESENTATION GATEWAY	EXTRON	**60-1943-01**	1	AT AV ENCLOSURE	N/A	N/A
⑨	AUDIO AMPLIFIER, VOICE-LIFT RX W/ PRIORITY PAGE INPUT	TEACHLOGIC	**IMA-520**	1	AT AV ENCLOSURE	N/A	N/A
⑮	IR DOME	TEACHLOGIC	**ICS-55**	1	CEILING	N/A	N/A
⑰	HANDHELD MICROPHONE	TEACHLOGIC	**IRH-35**	1	N/A	N/A	N/A
⑫	PENDANT MICROPHONE	TEACHLOGIC	**IRT-60**	1	N/A	N/A	N/A
⑬	PENDANT MICROPHONE CHARGING CRADLE	TEACHLOGIC	**BRC-60**	1	N/A	N/A	N/A
⑭	CEILING SPEAKER (PAIR)	JBL	**LCT 81C/T**	1	CEILING	N/A	N/A
⑯	ULTRA FLEXIBLE PREMIUM HIGH SPEED HDMI CABLE	EXTRON	**26-663-06**	3	N/A	N/A	N/A
	GENERAL CABLES AND CONNECTORS AS REQUIRED FOR COMPLETE SYSTEM OPERATION PER CONFIGURATION	LOT	**LOT**	LOT	N/A	N/A	N/A



CLASSROOM AUDIO-VIDEO ONE-LINE SCHEMATIC | SCALE: N/A | 1

ASSISTED LISTENING EQUIPMENT SCHEDULE PER ROOM

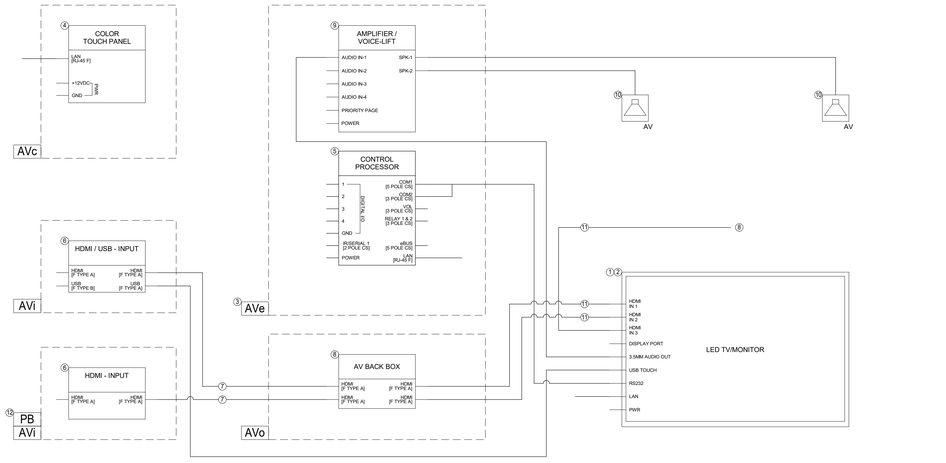
ID	BUILDING	ROOM NAME	ROOM #	ROOM OCCUPANCY	Ⓐ ALS SYSTEM W/ 1 EA. Rx	Ⓑ RECEIVER (Rx)W/ HEADSET (QTY.)	Ⓒ NECK LOOP	Ⓓ OMNI MICROPHONE	Ⓔ BATTERY	Ⓕ WALL PLAQUE
					WILLIAMS SOUND PFM-PRO	WILLIAMS SOUND PPA R37 HD	WILLIAMS SOUND NKL 001	WILLIAMS SOUND EM-1.2	WILLIAMS SOUND BATT 001-2	WILLIAMS SOUND IDP 008
1	100	CLASSROOM	106	50	1	2	2	1	3	1
2	100	PAXTON PATTERSON LAB	119	50	1	2	2	1	3	1
3	100	ART CLASSROOM	120	50	1	2	2	1	3	1
4	100	SCIENCE CLASSROOM	121	50	1	2	2	1	3	1
5	100	COMPUTER LAB	124	50	1	3	3	1	4	1
6	100	CLASSROOM	125	50	1	3	3	1	4	1
7	200	CAFETERIA	201	50	1	3	3	1	4	1
8	200	CLASSROOM	209	50	1	3	3	1	4	1
9	200	CLASSROOM	210	50	1	3	3	1	4	1
10	200	CLASSROOM	211	50	1	3	3	1	4	1



ASSISTED LISTENING ONE-LINE SCHEMATIC | SCALE: N/A | 4

AUDIO-VISUAL MAJOR EQUIPMENT SCHEDULE

ID	DESCRIPTION	MANUFACTURER	MODEL / PART NUMBER	QTY.	MOUNTING HEIGHT	BACK BOX	TRIM RING
①	LED TV/MONITOR	VIEWSONIC	**IFP8650-5**	1	N/A	N/A	N/A
②	WALL MOUNT BRACKET FOR ABOVE	BALANCE BOX	**401A83 / 988B84**	1	+60" AFF CENTER OF BOX	2 EA. 4-11/16" 2-1/8" DEEP	4-11/16, 1/2" RAISED 2-GANG
③	2'X2' AV CEILING ENCLOSURE	MONOPRICE	16088	1	CEILING	N/A	N/A
④	7" COLOR TOUCH CONTROL PANEL W/ VOLUME KNOB	EXTRON	**60-1563-02**	1	+45" AFF TOP OF BOX, MAX.	1 EA. 4-11/16" 2-1/8" DEEP	4-11/16, 1/2" RAISED 2-GANG
⑤	CONTROL PROCESSOR W/ RS232	EXTRON	**60-1911-01**	2	N/A	N/A	N/A
⑥	HDMI WALL PLATE W/ PIGTAIL - PASSIVE	EXTRON	**70-726-63**	2	+15" AFF BOTT. OF BOX, MIN.	1 EA. 4-11/16" 2-1/8" DEEP	4-11/16, 1/2" RAISED 2-GANG
⑦	HDMI PREMIUM HIGH SPEED OPTICAL CABLE - PLENUM, 35'	EXTRON	**26-726-35**	2	N/A	N/A	N/A
⑧	WIRELESS PRESENTATION GATEWAY	VIVITEK	**NOVO PRO**	1	AT AV ENCLOSURE	N/A	N/A
⑨	AUDIO AMPLIFIER, VOICE-LIFT RX W/ PRIORITY PAGE INPUT	TEACHLOGIC	**IMA-520**	1	AT AV ENCLOSURE	N/A	N/A
⑩	CEILING SPEAKER (PAIR)	JBL	**LCT 81C/T**	1	CEILING	N/A	N/A
⑪	ULTRA FLEXIBLE PREMIUM HIGH SPEED HDMI CABLE	EXTRON	**26-663-06**	3	N/A	N/A	N/A
⑫	FLOOR BOX W/ HINGED LID AND CABLE PASS THROUGH (FLUSH)	FSR	**FL-500P-6**	1	N/A	N/A	N/A
	GENERAL CABLES AND CONNECTORS AS REQUIRED FOR COMPLETE SYSTEM OPERATION PER CONFIGURATION	LOT	**LOT**	LOT	N/A	N/A	N/A



CONFERENCE ROOM AND OFFICES AUDIO-VIDEO ONE-LINE SCHEMATIC | SCALE: N/A | 2

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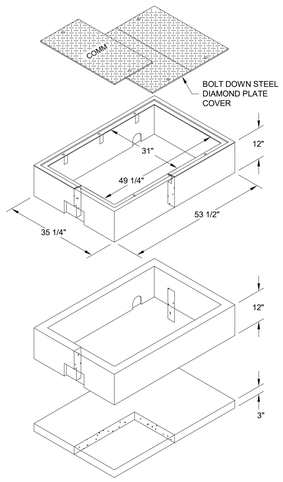
AUDIO-VIDEO ONE-LINE DIAGRAMS

T-502

4/6/2026 10:42:41 AM Autodesk Docs://KHSD - Central Valley Continuation HS/24-2161 Central Valley CHS_MEP_FP_T_R23.rvt



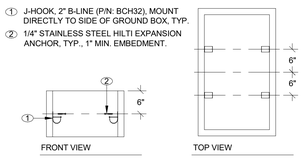
DESIGN LOAD: H-20 FULL TRAFFIC

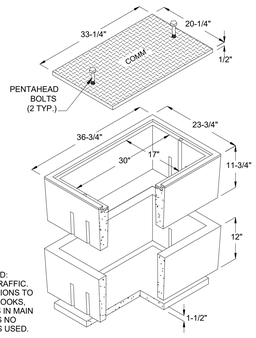
CATALOG NUMBER	PRODUCT	DESCRIPTION	APPROX. WT. (LBS.)
B304863JHG	COVER	3 PIECE STEEL CHECKER PLATE WITH HOLD DOWN BOLTS (BLACK)	340
B3048x12	EXTENSION	12" HIGH REINFORCED CONCRETE	474
B48SL	SLAB	REINFORCED CONCRETE	406

NOTE:
1) METRIC DIMENSIONS ROUNDED TO NEAREST 5 MM.
2) FOR COMPLETE DESIGN AND PRODUCT INFORMATION CONTACT JENSEN PRECAST.

LARGE GROUND BOX | SCALE N.T.S. | 8

① J-HOOK, 2" B-LINE (P/N: BCH32), MOUNT DIRECTLY TO SIDE OF GROUND BOX, TYP.
② 1/4" STAINLESS STEEL HILTI EXPANSION ANCHOR, TYP., 1" MIN. EMBEDMENT.



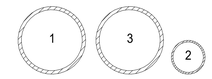


NOTES:
1. DESIGN LOAD: H-20 FULL TRAFFIC.
2. ALL EXTENSIONS TO INCLUDE J-HOOKS, NO J-HOOKS IN MAIN BOX UNLESS NO EXTENSIONS USED.

CATALOG NUMBER	PRODUCT	DESCRIPTION
B1730 N36SL	BOX WITH SLAB	REINFORCED CONCRETE
173051JH	COVER	STEEL CHECKER PLATE (H20 HEAVY DUTY)
B1730EXT	EXTENSION	12" HIGH REINFORCED CONCRETE
HDB1730	HOLD DOWN BOLT	HOLD DOWN PENTAHEAD BOLT (2 EA.)

SMALL GROUND BOX | SCALE N.T.S. | 6

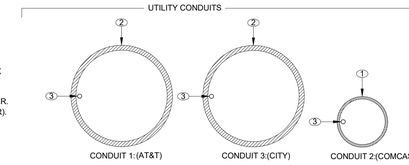
① (1) EA. 2" CONDUIT
② (1) EA. 4" CONDUIT
③ 1/2" NYLON MULE STRING, PN: NEPTCO WP900P



NOTE: CONDUIT ENDS TO BE PAINTED IN JUNCTION BOX, GROUND BOX AND ANY OPEN END PENETRATION LOCATIONS.

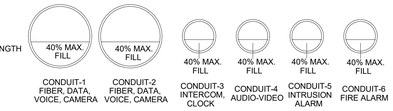
① AT&T UTILITY SERVICE (CONDUIT COLOR YELLOW)
② COMCAST UTILITY SERVICE (CONDUIT COLOR YELLOW)
③ CITY OF TRACY FIBER (CONDUIT COLOR YELLOW)

NOTE: AT ALL GROUND BOX, PULL BOX AND JUNCTION BOX LOCATIONS, THE ENDS OF CONDUITS SHALL BE PAINTED AND LABELED WITH A NUMBER. (SEE DETAIL FOR COLOR AND NUMBER).



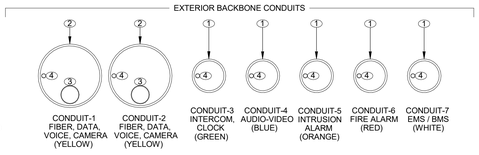
UTILITY CONDUIT, SYSTEMS LAYOUT | SCALE N.T.S. | 1

⬭ (1) EA. 2" CONDUIT
② (1) EA. 4" CONDUIT
③ (1) EA. 1" INNERDUCT OR 2" 1-CELL MAXCELL
④ 1/2" NYLON MULE STRING 900 LBS. PULL STRENGTH W/ FOOT MARKINGS

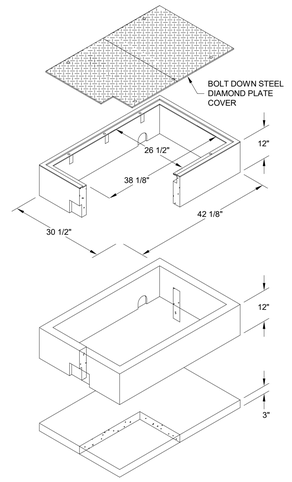


CONDUIT FILL CHART 40% FILL RATIO MAXIMUM	
CONDUIT DIA.	FILL RATIO (0.250" DIA.)
1"	6-CABLES
1-1/4"	10-CABLES
2"	26-CABLES
4"	102-CABLES

NOTE: CONTRACTOR SHALL BE REQUIRED TO UPSIZE CONDUIT AND/OR QTY AS NOTED PER FILL RATIO CABLE CAPACITY.



EXTERIOR BACKBONE CONDUIT, SYSTEMS LAYOUT | SCALE N.T.S. | 2



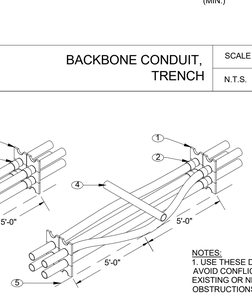
DESIGN LOAD: H-20 FULL TRAFFIC

CATALOG NUMBER	PRODUCT	DESCRIPTION	APPROX. WT. (LBS.)
B243652JHG	COVER	2 PIECE STEEL CHECKER PLATE WITH HOLD DOWN BOLTS (BLACK)	225
B2436x12	EXTENSION	12" HIGH REINFORCED CONCRETE	250
B40SL	SLAB	REINFORCED CONCRETE	108

NOTE:
1) METRIC DIMENSIONS ROUNDED TO NEAREST 5 MM.
2) FOR COMPLETE DESIGN AND PRODUCT INFORMATION CONTACT JENSEN PRECAST.

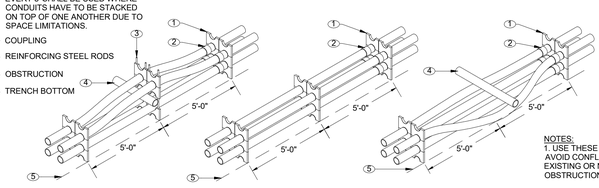
MEDIUM GROUND BOX | SCALE N.T.S. | 7

① PLASTIC WARNING TAPE
② LAST 12" AB MATERIAL AT 95%% COMPACTION FOR ASPHALT AND CONCRETE, 90%% FOR PLANTED AREAS
③ 10 AWG WIRE OR METAL TRACING TAPE PLACED ON TOP OF CONDUITS AND CONTINUOUS THROUGHOUT ENTIRE TRENCH LENGTH AND TERMINATING ON RISER UNISTRUT OR GROUNDING BAR IN GROUND BOX.
④ BOTTOM AND MIDDLE PLASTIC SPACERS EVERY 5'-0" SHALL BE USED WHERE CONDUITS HAVE TO BE STACKED ON TOP OF ONE ANOTHER DUE TO SPACE LIMITATIONS
⑤ SAND AT 90% COMPACTION
⑥ SIGNAL SYSTEMS CONDUITS



BACKBONE CONDUIT, TRENCH | SCALE N.T.S. | 3

① BOTTOM & MIDDLE PLASTIC SPACERS EVERY 5' SHALL BE USED WHERE CONDUITS HAVE TO BE STACKED ON TOP OF ONE ANOTHER DUE TO SPACE LIMITATIONS.
② COUPLING
③ REINFORCING STEEL RODS
④ OBSTRUCTION
⑤ TRENCH BOTTOM

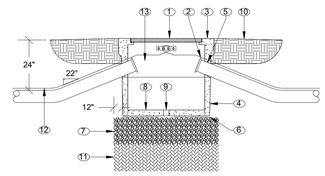


TYPICAL INSTALLATION AROUND OBSTRUCTION
TYPICAL STRAIGHT RUN INSTALLATION
TYPICAL INSTALLATION UNDER OBSTRUCTION

NOTES:
1. USE THESE DETAILS TO AVOID CONFLICTS WITH EXISTING OR NEW OBSTRUCTIONS.
2. SPACE TELECOMMUNICATIONS CONDUIT 6" FROM POWER CONDUIT (ABOVE 120V) AND 3" FROM ALL OTHER CONDUIT.

BACKBONE CONDUIT, STACK | SCALE N.T.S. | 4

① LID PER, TYPE PER GROUND BOX DETAIL
② BELL ENDS TYP.
③ PRE CAST REINFORCED CONCRETE BOX, SIZE PER PLANS
④ PRE CAST REINFORCED CONCRETE EXTENSIONS AS REQUIRED
⑤ SEAL AROUND CONDUIT, BOX & JUNCTION OF EXTENSION(S) WITH MORTAR
⑥ VAPOR RETARDER
⑦ 12" CRUSHED ROCK
⑧ REINFORCED CONCRETE BOTTOM
⑨ 1" DRAIN HOLE
⑩ FINISHED GRADE, SLOPE 1/8" OVER 12" EXTEND 4'-0"
⑪ COMPACTED SOIL
⑫ 10 AWG WIRE OR METAL TRACING TAPE PLACED ON TOP OF CONDUITS AND CONTINUOUS THROUGH OUT ENTIRE TRENCH LENGTH AND TERMINATING ON RISER UNISTRUT OR GROUNDING BAR IN GROUNDBOX
⑬ SERVICE LOOP



GROUND BOX, CONDUIT ENTRY | SCALE N.T.S. | 5

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125726 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 04/28/2026

SGPA
ARCHITECTURE AND PLANNING
3111 CAMINO DEL RIO NORTH, STUDIO 500
SAN DIEGO, CA 92108
619.297.0131
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LP CONSULTING ENGINEERS
MEP & FS / Sustainability / CxA
1209 Pleasant Grove Blvd.
Roseville, CA 95678
p 916-771-0778
www.lpengineers.com
Job #: 24-2161

REGISTERED PROFESSIONAL ENGINEER
RAMI S. ZEID
No. E 16762
EXP. 9-30-26
ELECTRICAL
STATE OF CALIFORNIA

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KERN HIGH SCHOOL DISTRICT
5801 SUNDALE AVE.
BAKERSFIELD, CA 93309

CENTRAL VALLEY CONTINUATION HIGH SCHOOL CAMPUS
526 MANNEL AVENUE
SHAFTER, CA 93263

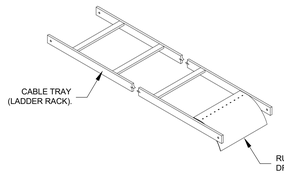
DRAWING SUBMITTAL SCHEDULE	
100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO: 22434-E-02

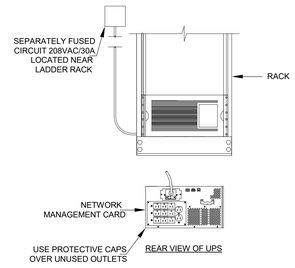
TECHNOLOGY BACKBONE PATHWAY DETAILS

T-801

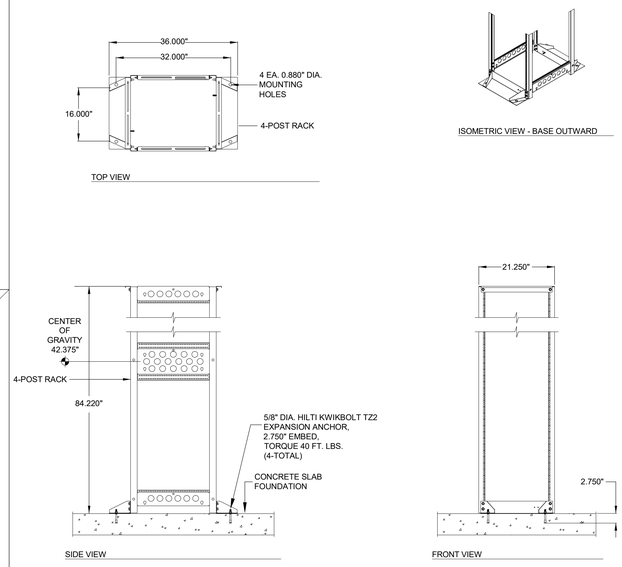
4/6/2026 10:42:42 AM Autodesk Docs://KHSD - Central Valley Continuation HS/24-2161 Central Valley CHS_MEP_FP_T_R23.rvt



LADDER RUNWAY, CABLE WATERFALL | SCALE N.T.S. | 13

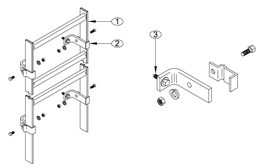


UPS AT MDF DATA RACK | SCALE N.T.S. | 14



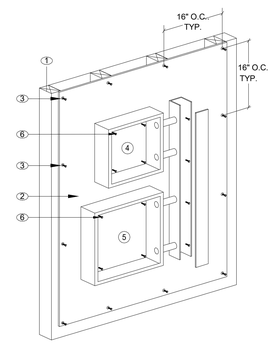
MDF EQUIPMENT RACK MOUNTING | SCALE N.T.S. | 1

① CABLE LADDER PER DRAWINGS.
② VERTICAL WALL BRACKETS, CHATSWORTH PN: 10608-001 OR EQUAL
③ 3/8" DIA. WOOD SCREW INTO 4X4 BLK'G, 2" MIN. EMBED INTO BLK'G CENTER TOP AND BOTT., BOTH SIDES (4-TOTAL)

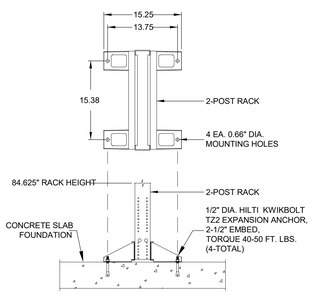


LADDER RUNWAY, RISER | SCALE N.T.S. | 10

① 2X WALL STUD
② SINGLE-LAYER 3/4" FIRE RETARDANT PLYWOOD BACKPLANE CUT TO FIT LENGTH OF WALL
③ PLYWOOD BACKPLANE TO STUD CENTERS USE; 1/4" WOOD SCREWS. VERIFY CENTERLINE TO 2X STUD. 1-1/2" MIN. EMBED INTO STUD CENTER.
④ ENCLOSURE UNDER 20 LBS (IF REQUIRED)
⑤ ENCLOSURE 20 LBS TO 100 LBS (IF REQUIRED)
⑥ 3/16"x1-1/2" WOOD SCREW W/ FENDER WASHER AT EACH CORNER OF ENCLOSURE INTO PLYWOOD. 3/4" MIN. EMBED. (4-TOTAL)



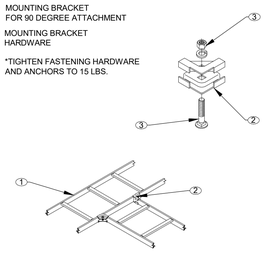
FIRE RATED PLYWOOD | SCALE N.T.S. | 4



IDF EQUIPMENT RACK MOUNTING | SCALE N.T.S. | 2

① (N) 18" LADDER RACK ASSEMBLY
② MOUNTING BRACKET
FOR 90 DEGREE ATTACHMENT
③ MOUNTING BRACKET
HARDWARE

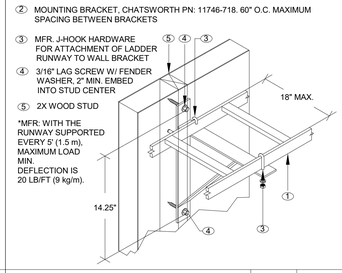
*TIGHTEN FASTENING HARDWARE AND ANCHORS TO 15 LBS.



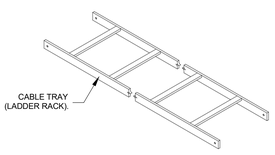
LADDER RUNWAY, TRANSITION TEE | SCALE N.T.S. | 11

① 18" WIDE LADDER RACK*, COLOR: BLACK
② MOUNTING BRACKET, CHATSWORTH PN: 11746-718. 60" O.C. MAXIMUM SPACING BETWEEN BRACKETS
③ MFR. J-HOOK HARDWARE FOR ATTACHMENT OF LADDER RUNWAY TO WALL BRACKET
④ 3/16" LAG SCREW W/ FENDER WASHER, 2" MIN. EMBED INTO STUD CENTER
⑤ 2X WOOD STUD

*MFR: WITH THE RUNWAY SUPPORTED EVERY 5' (1.5 m), MAXIMUM LOAD MIN. DEFLECTION IS 20 LB/FT (9 kg/m).

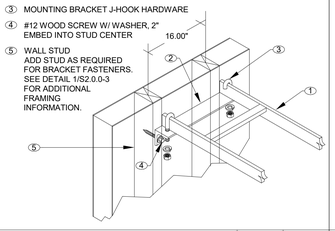


LADDER RUNWAY, PARALLEL | SCALE N.T.S. | 8

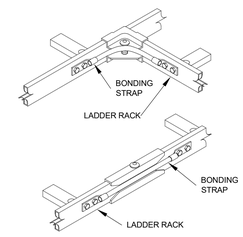


LADDER RUNWAY | SCALE N.T.S. | 12

① LADDER RACK ASSEMBLY PER DRAWINGS (MAX. LOAD 20 LBS. PER LF, BRACING 60" O.C. MAX. SPAN)
② MOUNTING BRACKET, CHATSWORTH PN: 11421-718 FOR WALL
③ MOUNTING BRACKET J-HOOK HARDWARE
④ #12 WOOD SCREW W/ WASHER, 2" EMBED INTO STUD CENTER
⑤ WALL STUD
ADD STUD AS REQUIRED FOR BRACKET FASTENERS. SEE DETAIL 1/S2.0.0-3 FOR ADDITIONAL FRAMING INFORMATION.

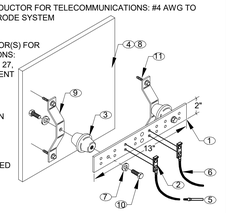


LADDER RUNWAY, PERPENDICULAR | SCALE N.T.S. | 9



CABLE RUNWAY BONDING | SCALE N.T.S. | 5

① BARE COPPER GROUND BUS BAR
② TYPICAL 2 HOLE LUGS, SECURE TO BAR WITH 2-5/8" BOLTS, WITH NAMEPLATES MOUNTED ABOVE. PROVIDE NUMBER OF LUGS AS REQUIRED
③ PROVIDE ISOLATION SUPPORT SPACERS AS REQUIRED
④ 1" FIRE RATED PLYWOOD BACKBOARD
⑤ MAIN BONDING CONDUCTOR FOR TELECOMMUNICATIONS: #4 AWG TO GROUNDING ELECTRODE SYSTEM (PER ELECTRICAL)
⑥ BONDING CONDUCTOR(S) FOR TELECOMMUNICATIONS: #6 AWG TO DIVISION 27, DIVISION 28 EQUIPMENT AS REQUIRED
⑦ 3/8" LOCK WASHER
⑧ MOUNTING LOCATION PER PLAN
⑨ SUPPORT BRACKET
⑩ 3/8" WOOD LAG SCREW, 1" MIN. EMBED
⑪ 3/8" WOOD LAG SCREW INTO PLYWOOD,TYP OF 4



GROUND BUS | SCALE N.T.S. | 3

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125726 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 04/28/2026

SGPA
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Job #. 24-2161

REGISTERED PROFESSIONAL ENGINEER
REZAUL S. ZEID
No. E 16762
EXP. 9-30-26
ELECTRICAL
STATE OF CALIFORNIA

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KERN HIGH SCHOOL DISTRICT
5801 SUNDALE AVE.
BAKERSFIELD, CA 93309

CENTRAL VALLEY CONTINUATION HIGH SCHOOL CAMPUS
526 MANNEL AVENUE
SHAFTER, CA 93263

DRAWING SUBMITTAL SCHEDULE	
100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO:22434-E-02

TECHNOLOGY MDF/IDF DETAILS

T-802

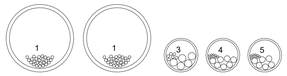
Autodesk Docs://KUSD - Central Valley Continuation HS/24-2161 Central Valley CHS_MEP_AD_T_R23.rvt
4/6/2026 10:42:42 AM

Ⓐ (1) EA. 2" CONDUIT

Ⓑ (1) EA. 4" CONDUIT

Ⓒ (1) EA. 1" INNER-DUCT, INSTALL INNER-DUCT AT INTERIOR BACKBONE SLEEVES AND CONTINUOUS AT CABLE TRAY

Ⓓ 1/2" NYLON MULE STRING, PN: NEPTCO WP900P



NOTE: AT ALL GROUND BOX, PULL BOX AND JUNCTION BOX LOCATIONS, THE ENDS OF CONDUITS SHALL BE PAINTED AND LABELED WITH A NUMBER. (SEE DETAIL FOR COLOR AND NUMBER).

① ② FIBER / DATA CABLES (CONDUIT COLOR YELLOW)

③ INTRUSION CABLES (CONDUIT COLOR WHITE)

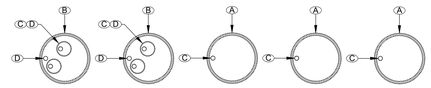
④ AUDIO-VISUAL / MISC CABLES (CONDUIT COLOR BLUE)

⑤ ACCESS CONTROL (CONDUIT COLOR PURPLE)

CONDUIT FILL CHART 40% FILL RATIO MAXIMUM	
CONDUIT DIA.	FILL RATIO (0.250" DIA.)
1"	6-CABLES
1-1/4"	10-CABLES
2"	26-CABLES
4"	102-CABLES

NOTE: CONTRACTOR SHALL BE REQUIRED TO UPSIZE CONDUIT AND/OR QTY AS NOTED PER FILL RATIO CABLE CAPACITY.

INTERIOR CONDUITS



CONDUIT 1: (FIBER/DATA) YELLOW | CONDUIT 2: (FIBER/DATA) YELLOW | CONDUIT 3: (INTRUSION) WHITE | CONDUIT 4: (AUDIO-VISUAL/ MISC.) BLUE | CONDUIT 5: (ACCESS CONTROL) PURPLE

HORIZONTAL CONDUIT, SYSTEMS LAYOUT

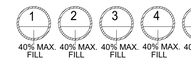
SCALE N.T.S. — 1

① (1) EA. 2-1/2" CONDUIT

② (1) EA. 4" CONDUIT, OCCURS AT EXTERIOR BACKBONE ONLY

③ 1" FIBER OPTIC INNER-DUCT

④ 1/2" NYLON MULE STRING, PN: NEPTCO WP900P



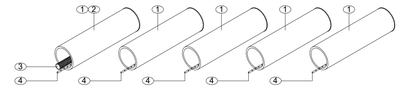
40% MAX. FILL | 40% MAX. FILL | 40% MAX. FILL | 40% MAX. FILL | 40% MAX. FILL

NOTE: AT ALL GROUND BOX, PULL BOX AND JUNCTION BOX LOCATIONS, THE ENDS OF CONDUITS SHALL BE PAINTED AND LABELED WITH CONDUIT IDENTIFICATION NUMBER.

CONDUIT FILL CHART 40% FILL RATIO MAXIMUM	
CONDUIT DIA.	FILL RATIO (0.250" DIA.)
1"	6-CABLES
1-1/4"	10-CABLES
2"	26-CABLES
4"	102-CABLES

NOTE: CONTRACTOR SHALL BE REQUIRED TO UPSIZE CONDUIT AND/OR QTY AS NOTED PER FILL RATIO CABLE CAPACITY.

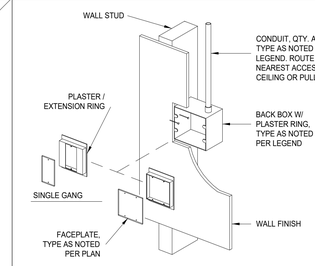
INTERIOR HORIZONTAL CONDUITS



CONDUIT 1: YELLOW (FIBER/ DATA/ VOICE/ CAMERA) | CONDUIT 2: ORANGE (INTRUSION ALARM) | CONDUIT 3: GREEN (INTERCOM/ CLOCK) | CONDUIT 4: RED (FIRE ALARM) | CONDUIT 5: WHITE (EMS/BMS)

INTERIOR HORIZONTAL CONDUIT SYSTEMS LAYOUT

SCALE N.T.S. — 2



BACK BOX W/ PLASTER RING

SCALE: N.T.S. — 6

① DRAFT STOP OR FIRE CAULK ACCORDING TO WALL PENETRATION DETAILS

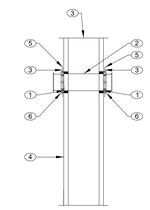
② THREADED, RIGID, OR IMC CONDUIT

③ SCREW ON BUSHING

④ WALL STUD

⑤ REDUCING WASHER OR PLATE

⑥ SCREW ON LOCKING RINGS FRONT & BACK (TYP.)



CONDUIT SLEEVE PENETRATION

SCALE: N.T.S. — 3

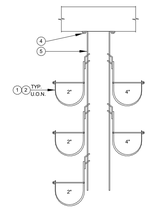
① J-HOOK, COOPER INDUSTRIES: BCH32 (2"), BCH64 (4") MAX. WEIGHT LOADING: 25 LBS.

② J-HOOK COLOR ID CLIP, COOPER INDUSTRIES BCHID-(COLOR ID)32/64

③ WOOD JOIST OR BEAM

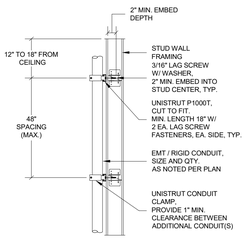
④ #12 WOOD SCREW W/ WASHER, 2" EMBED

⑤ CEAS, 1/4" STIFFY THREADED ROD, MAX. LOAD PER SUPPORT: 70 LBS. 60" LENGTH, CUT TO FIT



CEILING MOUNTED J-HOOK

SCALE: N.T.S. — 7



VERTICAL CONDUIT, ANCHOR AND STRAP

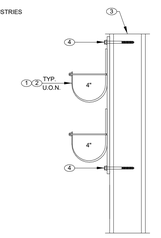
SCALE: N.T.S. — 4

① J-HOOK, COOPER INDUSTRIES: BCH64-#S MAX. WEIGHT LOADING: 25 LBS.

② J-HOOK COLOR ID CLIP, COOPER INDUSTRIES BCHID-(COLOR ID)32

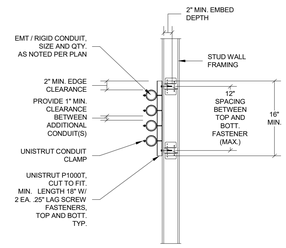
③ WALL STUD

④ #12 WOOD SCREW W/ WASHER, 2" MIN. EMBED INTO STUD CENTER



WALL MOUNTED J-HOOK

SCALE: N.T.S. — 8



HORIZONTAL CONDUIT, ANCHOR AND STRAP

SCALE: N.T.S. — 5

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REZAUL S. ZEID
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CENTRAL VALLEY CONTINUATION HIGH SCHOOL CAMPUS
526 MANNEL AVENUE
SHAFTER, CA 93263

DRAWING SUBMITTAL SCHEDULE	
100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO: 22434-E-02

TECHNOLOGY HORIZONTAL PATHWAYS

T-803

Autodesk Docs://KVSD_Central Valley Continuation HS/24-2161 Central Valley CHS_MEP_FP_T_R23.rvt
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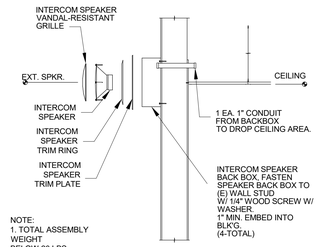
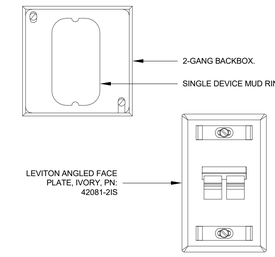
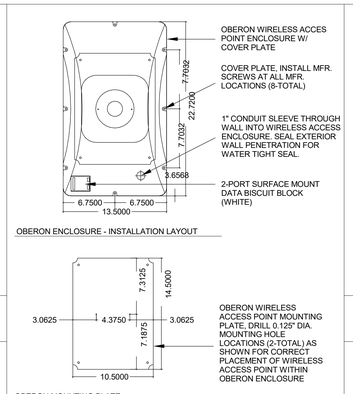


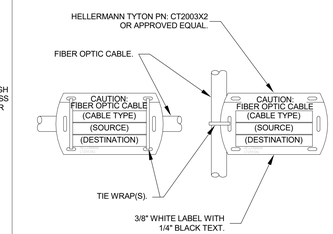
EXTERIOR WALL SURFACE MOUNTED SPEAKER | SCALE N.T.S. | 14



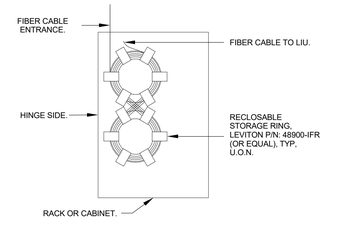
1-PORT | SCALE N.T.S. | 9

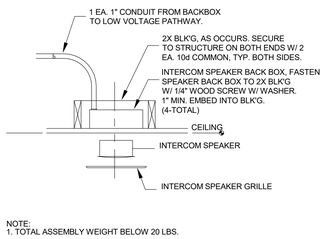


WIRELESS ACCESS POINT W/ ENCLOSURE (EXTERIOR) | SCALE N.T.S. | 8

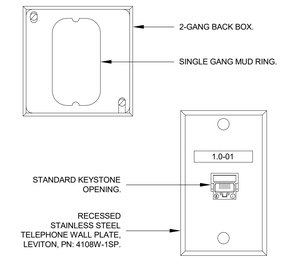


CATEGORY CABLE LABELING | SCALE N.T.S. | 1

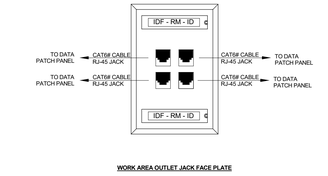




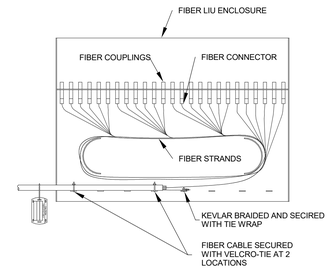
INTERIOR CEILING HARD LID SPEAKER | SCALE N.T.S. | 15



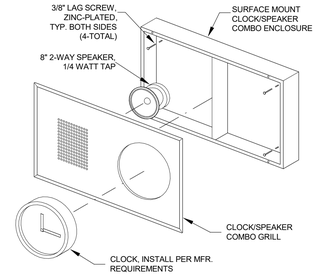
1-PORT VOICE WALL | SCALE N.T.S. | 10



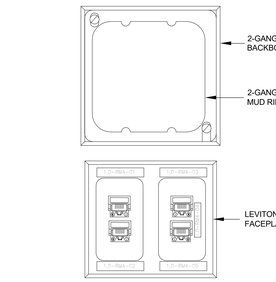
COPPER FEEDER BACKBONE LABELING | SCALE N.T.S. | 6



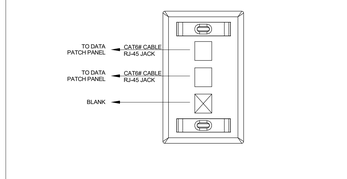
FIBER OPTIC ENCLOSURE TERMINATION | SCALE N.T.S. | 2

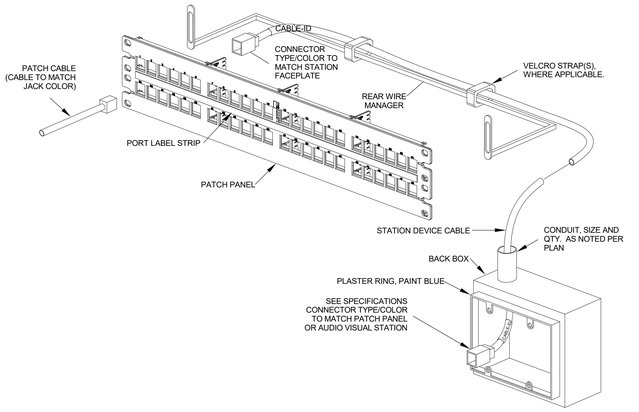


CLOCK / SPEAKER COMBO BOX MOUNTING | SCALE N.T.S. | 16

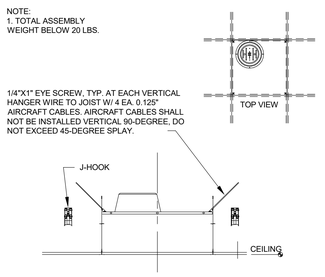


4-PORT | SCALE N.T.S. | 11

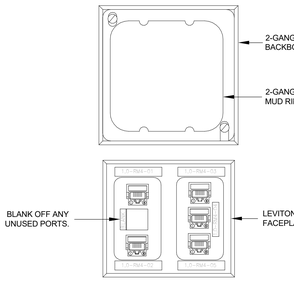




COPPER FEEDER BACKBONE LABELING | SCALE N.T.S. | 3



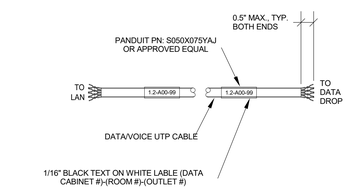
INTERIOR CEILING LAY-IN SPEAKER | SCALE N.T.S. | 17



6-PORT | SCALE N.T.S. | 12

DATA / VOICE WORK AREA OUTLET | SCALE N.T.S. | 4

ABOVE CEILING WIRELESS ACCESS POINT | SCALE N.T.S. | 13



CABLE LABELING

NETWORK PERMANENT LINK TRANSMISSION CHANNEL | SCALE N.T.S. | 7

VOICE OUTLET | SCALE N.T.S. | 5

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REGISTERED PROFESSIONAL ENGINEER
REZAI S. ZEIDI
No. E 16762
EXP. 9-30-26
ELECTRICAL
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CENTRAL VALLEY
CONTINUATION HIGH SCHOOL CAMPUS
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DRAWING SUBMITTAL SCHEDULE	
100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO:22434-E-02

TECHNOLOGY DETAILS

T-804

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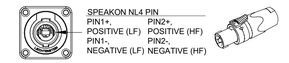
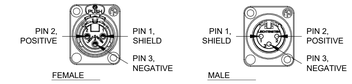
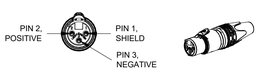


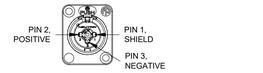
SPEAKON PANEL JACK PIN CONFIGURATION PIN CONFIGURATION



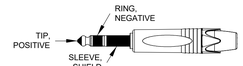
XLR JACK PANEL PIN CONFIGURATION



XLR/TRS COMBO JACK PIN CONFIGURATION



XLR/TRS COMBO JACK PIN CONFIGURATION

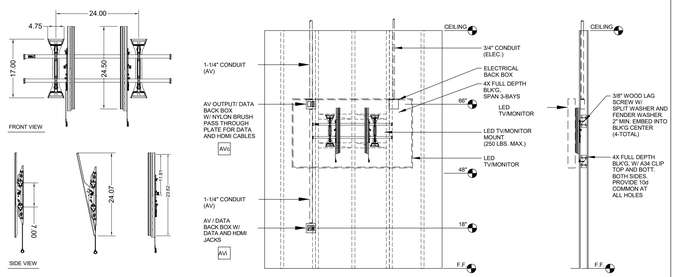


XLR/TRS COMBO JACK PIN CONFIGURATION

NOTE:
VERIFY AND REFER TO MFR. INSTALLATION MANUALS FOR ALL EQUIPMENT PIN CONFIGURATIONS

AUDIO-VIDEO CABLE LABELING

SCALE N.T.S. — 1



LED TV/MONITOR 70"-85" DIAGONAL (125 LBS.)

SCALE N.T.S. — 2

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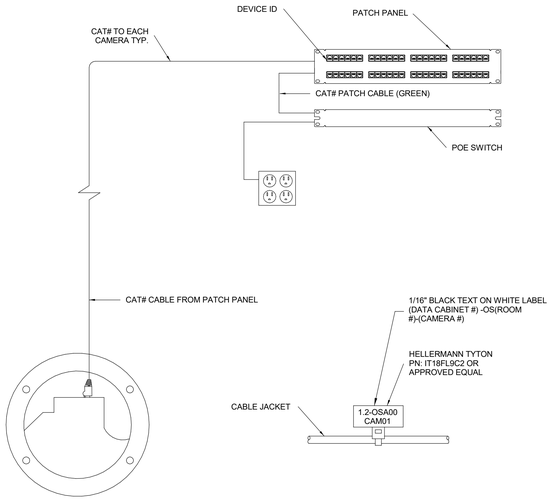
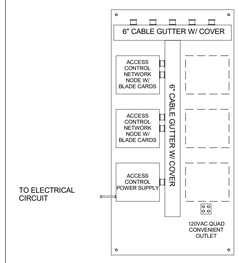
TECHNOLOGY AUDIO-VIDEO DETAILS

T-805

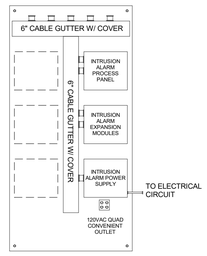
4/6/2026 10:42:44 AM Autodesk Docs://KHSD - Central Valley Continuation HS/24-2161 Central Valley CHS_MEP_FP_T_R23.rvt



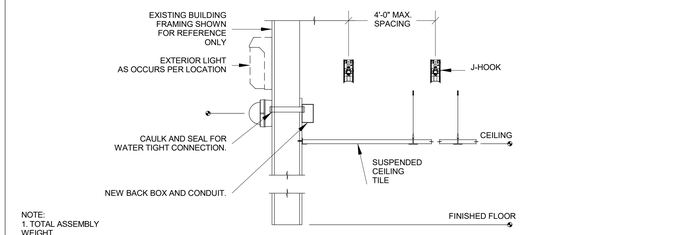
CAMERA SEGMENT | SCALE N.T.S. | 11



ACCESS CABINET LAYOUT | SCALE N.T.S. | 10



INTRUSION CABINET LAYOUT | SCALE N.T.S. | 8

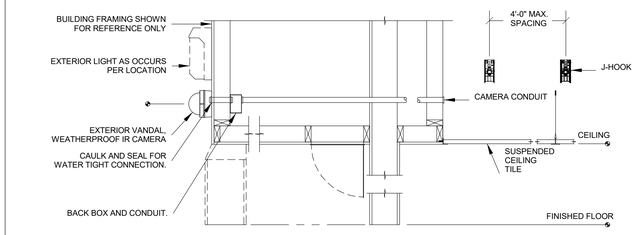


NOTE:
1. TOTAL ASSEMBLY WEIGHT BELOW 20 LBS.

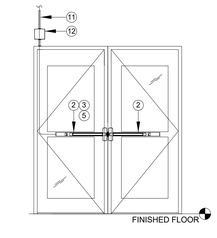
EXTERIOR CAMERA MOUNTING W/ SUSPENDED CEILING TRANSITION | SCALE N.T.S. | 1

1. ELECTRIFIED LATCH/TRIM
2. PANIC, DOOR HARDWARE
3. PANIC LATCH RETRACTION MOTOR
4. CARD READER, MULLION (TYP, U.N.O. OR WALL MOUNT AS NOTED PER PLAN)
5. RX SWITCH
6. ELECTRIFIED DOOR POSITION HINGE
7. HANDLE, DOOR HARDWARE
8. LOCKSET
9. ADJACENT WALL, AS SHOWN ON PLANS
10. BACK BOX
11. CONDUIT (TYPE PER PLAN), ROUTE TO NEAREST PULL BOX, CABLE TRAY AS SHOWN PER PLAN
12. 4" SQUARE JUNCTION BOX

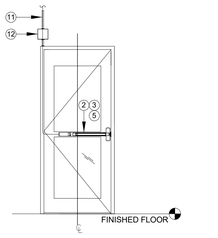
NOTE: MIRROR SINGLE DOOR ORIENTATION AT CENTERLINE FOR RIGHT/LEFT HAND DOOR SWING AS OCCURS AT DOOR CONDITION.



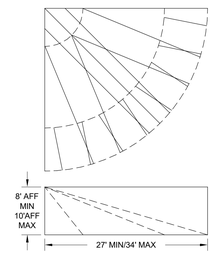
EXTERIOR CAMERA MOUNTING W/ HARD LID TO SUSPENDED CEILING TRANSITION | SCALE N.T.S. | 2



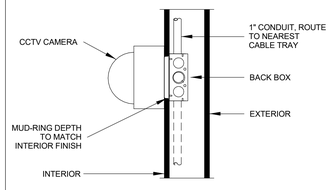
F ELECTRIFIED PANIC W/ LATCH RETRACTION MOTOR, ADA PUSH BUTTON, AND DOOR AUTO-OPENER
INTERIOR SIDE, DOUBLE DOOR



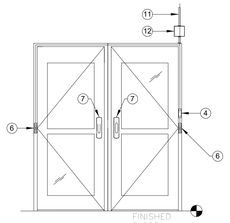
C ELECTRIFIED PANIC W/ LATCH RETRACTION MOTOR, ADA PUSH BUTTON, AND DOOR AUTO-OPENER
INTERIOR SIDE, SINGLE DOOR



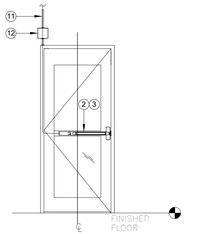
WALL MOUNTED MOTION SENSOR COVERAGE | SCALE N.T.S. | 6



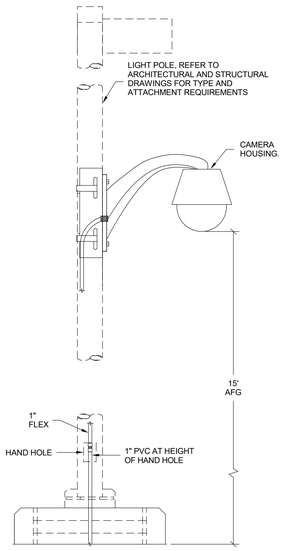
SURVEILLANCE CAMERA, INTERIOR WALL | SCALE N.T.S. | 3



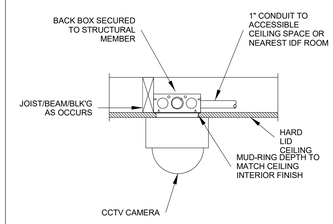
E HANDLE W/ READER/ADA PUSH BUTTON MOUNTED ON WALL, AND DOOR POSITION HINGE
EXTERIOR SIDE, DOUBLE DOOR



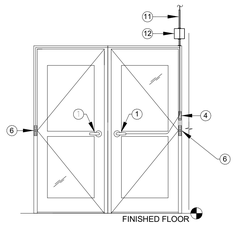
B ELECTRIFIED PANIC W/ LATCH RETRACTION MOTOR
INTERIOR SIDE, SINGLE DOOR



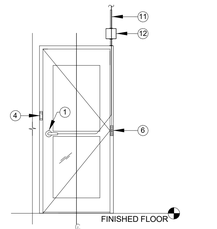
WALL MOUNTED MOTION SENSOR COVERAGE | SCALE N.T.S. | 7



SURVEILLANCE CAMERA, INTERIOR HARD LID CEILING | SCALE N.T.S. | 4

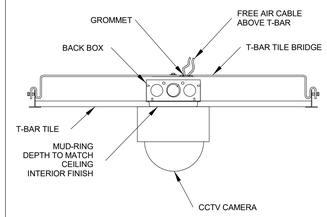


D ELECTRIFIED LEVER W/ READER MOUNTED ON WALL, AND DOOR POSITION HINGE
EXTERIOR SIDE, DOUBLE DOOR



A ELECTRIFIED LEVER W/ READER MOUNTED ON WALL, AND DOOR POSITION HINGE
EXTERIOR SIDE, SINGLE DOOR

ACCESS CONTROL AND INTRUSION ALARM HARDWARE | SCALE N.T.S. | 9



SURVEILLANCE CAMERA, INTERIOR ACT CEILING | SCALE N.T.S. | 5

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125726 INC:
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DATE: 04/28/2026

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REGISTERED PROFESSIONAL ENGINEER
REZAUL S. ZEID
No. E 16762
EXP. 9-30-26
ELECTRICAL
STATE OF CALIFORNIA

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BAKERSFIELD, CA 93309

CENTRAL VALLEY CONTINUATION HIGH SCHOOL CAMPUS
526 MANNEL AVENUE
SHAFTER, CA 93263

DRAWING SUBMITTAL SCHEDULE	
100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO:22434-E-02

TECHNOLOGY SECURITY DETAILS

T-806

Autodesk Docs://KUSD - Central Valley Continuation HS/24-24161 Central Valley CHS_MEP_FP_T_R23.rvt
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to ANSI/UL 1479 (ASTM E814)
and ANSI/ULC263 (ASTM E119)

CLIV R14288
Wall-opening Protective Materials

SpecSeal Power Shield Box Inserts, for use with flush device UL Listed Metallic Outlet Boxes without internal clamps installed with steel mud rings in framed wall assemblies. When protective material is used in outlet boxes on both sides of the wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in. (610 mm) provided that the boxes are not installed back-to-back. Installation shall comply with the National Electrical Code (NFPA 70). The max outlet box dimensions, hourly rating, type of stud, use of stud cavity insulation and type of faceplate are tabulated below. Additional general construction features shall comply as follows:

A. Studs - Unless otherwise specified, the minimum stud width is 3-1/2 in. (89 mm).

B. Stud Cavity Insulation - Where indicated in the table below, stud cavity insulation to consist of min 3-1/2 in. (89 mm) thick fiberglass (min 0.5 pcf or 8 kg/m3) or mineral fiber (min 4 pcf or 64 kg/m3). Unless indicated as required, stud cavity insulation is optional.

C. Wall Design - Stud composition is indicated in the table below. Wall construction shall comply with the individual U300, U400 or V400 Series Wall and Partition Design in the Fire Resistance Directory.

D. Pad Dimensions - The minimum dimensions of the insert pad are shown in the table below. Pads may be cut to achieve dimensions shown in table and partial insert pads may be utilized.

Product	Max Outlet Box Size, in. (mm)	Outlet Box Type	Outlet Box Mfr	Pad Size, in. (mm)	Rating, hr	Stud	Cavity Insulation	Face Plate Type	Putty Ball
EP 23	2 x 3 x 2-1/4 (51 x 76 x 57) deep	-	-	1-7/8 x 2-3/4 (48 x 70)	2	Steel	No	Steel	-
EP 23	2 x 3 x 2-1/4 (51 x 76 x 57) deep	-	-	1-7/8 x 2-3/4 (48 x 70)	2	Steel	Yes	Plastic	-
EP 23	2 x 3 x 2-1/4 (51 x 76 x 57) deep	-	-	1-7/8 x 2-3/4 (48 x 70)	1	Steel or Wood	Yes	Plastic or Steel	-
EP 24	2-7/8 x 4 x 2-1/8 (54 x 102 x 54) deep	-	-	1-7/8 x 3-3/4 (48 x 95)	2	Steel	No	Steel	-
EP 24	2-7/8 x 4 x 2-1/8 (54 x 102 x 54) deep	-	-	1-7/8 x 3-3/4 (48 x 95)	2	Steel	Yes	Plastic	-
EP 24	2-7/8 x 4 x 2-1/8 (54 x 102 x 54) deep	-	-	1-7/8 x 3-3/4 (48 x 95)	1	Steel or Wood	Yes	Plastic or Steel	-
EP 44	4 x 4 x 2-1/8 (102 x 102 x 54) deep	-	-	3-3/4 x 3-3/4 (95 x 95)	2	Steel	No	Steel	-
EP 44	4 x 4 x 2-1/8 (102 x 102 x 54) deep	-	-	3-3/4 x 3-3/4 (95 x 95)	2	Steel	Yes	Plastic	-
EP 44	4 x 4 x 2-1/8 (102 x 102 x 54) deep	-	-	3-3/4 x 3-3/4 (95 x 95)	1	Steel or Wood	Yes	Plastic or Steel	-
EP 45	4-11/16 x 4-11/16 x 2-1/8 (119 x 119 x 54) deep	-	-	4-1/2 x 4-1/2 (114 x 114)	1 or 2	Steel or Wood	Yes	Plastic or Steel	-
EP 45	4-1/2 x 5 x 2-3/8 (114 x 127 x 60) deep	-	-	4-1/2 x 4-1/2 (114 x 114)	1 or 2	Steel or Wood	Yes	Plastic or Steel	-
EP 45	4-1/2 x 5 x 2-7/8 (114 x 127 x 73) deep	-	-	4-1/2 x 4-1/2 (114 x 114)	1 or 2	Steel or Wood	Yes	Plastic or Steel	-
EP 45	4-1/2 x 13-3/4 (114 x 356 x 64) deep	-	-	4-1/2 x 13-3/4 (114 x 349)	1 or 2	Steel or Wood	Yes	Plastic or Steel	-

SpecSeal Putty Pads, for use with flush device UL Listed Metallic Outlet Boxes installed with steel mud rings or UL Listed Nonmetallic Outlet Boxes in framed wall assemblies. When protective material is used on outlet boxes on both sides of the wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in. (610 mm) provided that the boxes are not installed back-to-back. Installation shall comply with the National Electrical Code (NFPA 70). Min 3/16 in. (5 mm) thick moldable putty pads are to be installed to completely cover the exterior surfaces of the outlet box (except for the side of the outlet box against the stud) and to completely seal against the stud within the stud cavity. Adjoining pieces of moldable putty pads to be overlapped approx 1/2 in. (13 mm) at the seam. An additional 3/16 in. (5 mm) thickness of putty to be formed around the connector securing the end of each Type MC cable, electrical metallic tube (EMT) or conduit to the box. The box composition, max device dimensions, hourly rating, type of stud and type of faceplate are tabulated below. Additional general construction features shall comply as follows:

A. Studs - Unless otherwise specified, the minimum stud width is 3-1/2 in. (89 mm).

B. Stud Cavity Insulation - Unless indicated as required, stud cavity insulation is optional and may consist of min 3-1/2 in. (89 mm) thick fiberglass (min 0.5 pcf or 8 kg/m3) or mineral fiber (min 4 pcf or 64 kg/m3).

C. Wall Design - Stud composition is indicated in the table below. Wall construction shall comply with the individual U300 or V400 Series Wall and Partition Design in the Fire Resistance Directory.

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Classified by
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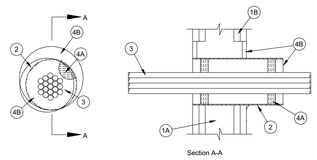
to ANSI/UL 1479 (ASTM E814) and CAN/ULC S115 System No. W-L-3210

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings - 1 and 2 Hr (See Item 1)	F Ratings - 1 and 2 Hr (See Item 1)
T Rating - 3/4 Hr	FT Rating - 3/4 Hr
	FH Ratings - 1 and 2 Hr (See Item 1)
	FTH Rating - 3/4 Hr



Section A-A

1. Wall Assembly - The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-5/8 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. (102 to 152 mm) wider and 4 to 6 in. (102 to 152 mm) higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. (51 to 76 mm) clearance is present between the penetrating item and the framing on all four sides.
   B. Gypsum Board* - Thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300, V300, U400 , V400 or W400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 6-1/2 in. (165 mm) when sleeve (Item 2) is installed. Max diam of opening is 4 in. (102 mm) when sleeve is not used.

   The horiuly F rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
2. Steel Sleeve - (Optional) - Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing (EMT), steel conduit, Schedule 5 (or heavier) steel pipe sleeve or min 0.016 in. thick (0.41 mm, No. 28 ga) galv steel sleeve installed flush with wall surfaces. The annular space between the steel sleeve and periphery of opening shall be min 0 in. (continuous point contact) to max 2 in. (51 mm). When Schedule 5 steel pipe or EMT is used, sleeve may be installed flush with or extend up to 18 in. (46 cm) beyond one or both wall surfaces. Steel sleeve may be installed at an angle not greater than 45 degrees from perpendicular. Schedule 5 steel pipe or EMT sleeves may extend continuously beyond one wall surface. Sleeve to be rigidly supported when extending from the wall surfaces.

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Classified by
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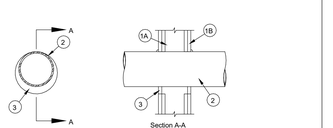
to ANSI/UL 1479 (ASTM E814) and CAN/ULC S115 System No. W-L-1049

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings - 1 and 2 Hr (See Item 1)	F Rating - 1 and 2 Hr (See Item 1)
T Rating - 0 Hr	FT Rating - 0 Hr
L Rating At Ambient - Less Than 1 CFM/sq ft	FH Rating - 1 and 2 Hr (See Item 1)
L Rating At 400 F - Less Than 1 CFM/sq ft	FTH Rating - 0 Hr
	L Rating At Ambient - Less Than 1 CFM/sq ft
	L Rating At 400 F - Less Than 1 CFM/sq ft



Section A-A

1. Wall Assembly - The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-5/8 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. (102 to 152 mm) wider and 4 to 6 in. (102 to 152 mm) higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. (51 to 76 mm) clearance is present between the penetrating item and the framing on all four sides.
   B. Gypsum Board* - 5/8 in. (16 mm) thick, 4 ft (1.22 m) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 26 in. (660 mm) for steel stud walls. Max diam of opening is 14-1/2 in. (368 mm) for wood stud walls.

   The horuly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.
1A. Metallic Sleeve - (Optional, Not Shown) - Cylindrical sleeve fabricated from min 0.016 in. (0.41 mm) to max 0.105 in. (2.7 mm) thick sheet steel. Length of steel sleeve to be equal to the thickness of wall. Longitudinal seam of sleeve welded or overlapped min 1 in. (25 mm). The ends of the steel sleeve shall be flush or recessed max 1/4 in. (6 mm) from wall surfaces.

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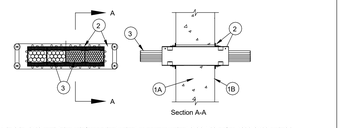
to ANSI/UL 1479 (ASTM E814) and CAN/ULC S115 System No. W-J-3098

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings - 2 and 4 Hr (See Item 3)	F Ratings - 2 and 4 Hr (See Item 3)
T Ratings - 3/4 and 1 Hr (See Item 3)	FT Ratings - 3/4 and 1 Hr (See Item 3)
L Rating At Ambient - Less Than 1, 1.3, 4 or 7 CFM/Device Module (See Item 3)	FH Ratings - 2 and 4 Hr (See Item 3)
L Rating At 400 F - Less Than 1, 2 or 3 CFM/Device Module (See Item 3)	FTH Ratings - 3/4 and 1 Hr (See Item 3)
	L Rating At Ambient - Less Than 1, 1.3, 4 or 7 CFM/Device Module (See Item 3)
	L Rating At 400 F - Less Than 1, 2 or 3 CFM/Device Module (See Item 3)



Section A-A

1. Wall Assembly - Min 6 in. (152 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete wall. Wall may also be constructed of any UL Classified Concrete Blocks*. Opening to be max 1/4 in. (6 mm) larger than width and height dimensions of firestop device(s).
   See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Firestop Device* - One, two, three, four or seven firestop device modules ganged together. Each firestop device module consists of a 3 by 3 by 10-1/2 in. (76 by 76 by 267 mm) long galv steel tube with an intumescent material lining. Firestop device modules to be installed in accordance with the accompanying installation instructions. The space between the firestop device module(s) and the periphery of the opening shall be min 0 in. (0 mm, point contact) to max 1/8 in. (3.2 mm). In round openings, the space between the firestop device and the periphery of the opening shall be min 0 in. (point contact) to max 1/2 in. (13 mm). Firestop device module(s) secured in place by means of steel wall plates installed with gasketing material supplied with product. Steel wall plates installed on both sides of wall and secured to each device by means of steel set screws provided with device. Each firestop device module is to be installed with ends projecting an equal distance beyond each surface of the wall assembly. As an option, devices may be cast or grouted into wall assembly. When device is cast or grouted in place, the steel wall plates are optional.
   SPECIFIED TECHNOLOGIES INC - EZ PATH Series 33 Fire Rated Pathway
2A. Firestop Device* - Extension Module - (Optional, Not Shown) - Module attached to ends of 3 by 3 by 10-1/2 in. (76 by 76 by 267 mm) long firestop device (Item 3) to increase its length to facilitate installation in thicker walls. Each module consists of a 3 by 3 by 6 in. (76 by 76 by 152 mm) long galv steel tube with an intumescent material lining. Extension module to be installed in accordance with the accompanying installation instructions. When module is used, firestop device (Item 2) and extension module(s) secured in place by means of steel wall plates installed with gasketing material supplied with product. Steel wall plates installed on both sides of wall and secured to each device or extension module(s) by means of steel set screws provided with wall plates. Firestop device and extension module(s) assembly to be installed with ends projecting an equal distance beyond each surface of the wall assembly.
   SPECIFIED TECHNOLOGIES INC - EZ PATH Extension

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D. Metallic Outlet Boxes - Except as indicated in the table below, when steel outlet boxes are used and the boxes are interconnected by means of electrical metallic tube or conduit, a ball of putty is to be installed to plug the open end of each electrical metallic tube (EMT) or conduit within the outlet box. When MC cable is used and/or when the outlet boxes are not interconnected, the ball of putty is not required.

E. Nonmetallic Outlet Boxes - The box manufacturer is indicated in the table below. Boxes shall bear a 2 hr rating under the "Outlet Boxes and Fittings Classified for Fire Resistance" category in the Fire Resistance Directory.

Model	Max Outlet Box in. (mm)	Outlet Box Type	Outlet Box Mfr	Pad Size in. (mm)	Rating, hr	Stud	Cavity Insulation	Face Plate Type	Putty Ball
-	4 x 4 x 2-1/8 (102 x 102 x 54) deep	Steel	N.A.	-	1	Steel or Wood	-	Steel	No
-	4 x 4 x 2-1/8 (102 x 102 x 54) deep	Steel	N.A.	-	1	Steel or Wood	-	Plastic	Yes
-	4-11/16 x 4-11/16 x 2-1/8 (119 x 119 x 54) deep	Steel	N.A.	-	1 or 2	Steel or Wood	-	Steel	Yes
-	4-1/2 x 5 x 2-3/8 (114 x 127 x 60) deep	Steel	N.A.	-	1 or 2	Steel or Wood	-	Steel	Yes
-	4-1/2 x 5 x 2-7/8 (114 x 127 x 60) deep	Steel	N.A.	-	1 or 2	Steel or Wood	-	Steel	Yes
-	3-3/4 x 4 x 3 (95 x 102 x 76) deep	Polyvinyl Chloride	Lamson & Sessions or Carlon	-	1 or 2	Wood	-	Plastic or Steel	N.A.
-	3-3/4 x 4 x 3 (95 x 102 x 76) deep	Phenolic	Allied Moulded Products	-	1 or 2	Wood	-	Plastic or Steel	N.A.
-	3-3/4 x 4 x 3 (95 x 102 x 76) deep	Polycarbonate	Thomas & Betts	-	1 or 2	Wood	-	Plastic or Steel	N.A.
-	3-3/4 x 4 x 3 (95 x 102 x 76) deep	Phenolic	Thomas & Betts	-	1 or 2	Wood	-	Plastic or Steel	N.A.
-	2-1/4 x 3-3/4 x 2-1/4 (57 x 95 x 70) deep	Polyvinyl Chloride	Pass & Seymour	-	1 or 2	Wood	-	Plastic or Steel	N.A.

SpecSeal Putty Pads , for use with maximum 4 by 4 by 2-1/8 in. (102 by 102 by 54 mm) deep flush device UL Listed Metallic Outlet Boxes installed with steel mud rings and with steel faceplates in 1 hr or 2 hr fire rated gypsum board wall assemblies constructed with min 5-1/2 in. (140 mm) wide wood or steel studs and with stud cavities filled with fiberglass (nom 0.5 pcf or 8 kg/m3) or mineral fiber (nom 4 pcf or 64 kg/m3) insulation. When protective material is used on outlet boxes on both sides of the wall as directed, the boxes may be installed back-to-back provided that the boxes on opposite sides of the wall are not interconnected with conduit or, when interconnected, the open end of the conduit within the outlet box is filled with a ball of putty. Installation shall comply with the National Electrical Code (NFPA 70). Min 3/16 in. (5 mm) thick moldable putty pads are to be installed to completely cover the exterior surfaces of the outlet box (except for the side of the outlet box against the stud) and to completely seal against the stud within the stud cavity. Adjoining pieces of moldable putty pads to be overlapped approx 1/2 in. (13 mm) at the seam. An additional 3/16 in. (5 mm) thickness of putty to be formed around the connector securing the end of each Type MC cable, electrical metallic tube (EMT) or conduit to the box.

SpecSeal EP23, EP24 and EP44 Power Shield Box Inserts and SpecSeal Putty Pads, for use with maximum 4 by 4 by 1-1/2 or 2-1/8 in. (102 by 102 by 38 or 54 mm) deep flush device UL Listed Metallic Outlet Boxes installed with steel mud rings and with steel or plastic faceplates in 1 hr or 2 hr fire rated gypsum board wall assemblies constructed with min 3-1/2 in. (89 mm) wide wood or steel studs. When both protective materials are used with outlet boxes on both sides of the wall as directed, the boxes may be installed back-to-back provided that the backs of the boxes are minimum 1/2 in. (13 mm) apart and provided that the boxes are not interconnected. Installation shall comply with the National Electrical Code (NFPA 70). Min 3/16 in. (5 mm) thick moldable putty pads are to be installed to completely cover the exterior surfaces of the outlet box (except for the side of the outlet box against the stud) and to completely seal against the stud within the stud cavity. Adjoining pieces of moldable putty pads to be overlapped approx 1/2 in. (13 mm) at the seam. An additional 3/16 in. (5 mm) thickness of putty to be formed around the connector securing the end of each Type MC cable, electrical metallic tube (EMT) or conduit to the box. An insert pad shall be installed to completely cover the back inside surface of each outlet box.

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3. Cables - Aggregate cross-sectional area of cables in steel sleeve to be max 48 percent of the aggregate cross-sectional area of the opening or sleeve. Cables to be bundled and rigidly supported on both sides of wall assembly. When the sleeve (Item 2) is installed, the annular space between the cables and the sleeve shall be min 0 in. (point contact) to max 1-1/2 in. (38 mm). When the sleeve (Item 2) is not used, the annular space between the cables and the opening shall be a min 0 in. (point contact) to max 1/2 in. (13 mm). Cable bundle, using cables described below, may penetrate the wall at an angle not greater than 45 degrees. Any combination of the following types and sizes of copper conductor cable may be used:
   A. Max 200 pair No. AWG (or smaller) copper conductor cable with polyvinyl chloride (PVC) or plenum-rated jacketing and insulation.
   B. Max 3/C No. 2/0 AWG (or smaller) aluminum or copper conductor service entrance cable with PVC insulation and jacket.
   C. Max 3/C No. 8 AWG (or smaller) nonmetallic sheathed (Romex) cable with copper conductors, PVC insulation and jacket.
   D. Max 7/C No. 2/0 AWG (or smaller) multiconductor power and control cables with XLPE or PVC insulation and XLPE or PVC jacket.
   E. Max RG/U (or smaller) coaxial cable with fluorinated ethylene or plenum-rated insulation and jacketing.
   F. Max 62.5/48 fiber optic cable with PVC or plenum-rated insulation and jacketing.
   G. Max 4 pair No. 24 AWG (or smaller) copper conductor data cable with PVC or plenum-rated insulation and jacket.
   H. Max 4/C No. 2/0 aluminum or copper conductor aluminum or steel Metal-Clad® or Armored-Clad® cable.
   I. Max ¾-in. (19 mm) copper ground cable with or without a PVC jacket.
4. Firestop System - The firestop system shall consist of the following:
   A. Packing Material - When required (See table in Item 4B), min 1 in. (25 mm) thickness of min 4.0 pcf (64 kg/m3) mineral wool batt insulation firmly packed into each end of sleeve as a permanent form. Packing material to be recessed from each end of sleeve as required to accommodate the required thickness of fill material.
   B. Fill, Void or Cavity Material* - Sealant or Putty - Fill material applied to appropriate thickness within steel sleeve, flush with edges of steel sleeve on both surfaces of wall. Min 1/2 in. (13 mm) thickness of fill material installed into annular space between sleeve and wall flush with both surfaces of the wall. Min 1/2 in. (13 mm) diam bead of sealant or "rope" of putty shall be applied around the perimeter of the sleeve on each side of the wall when sleeve extends beyond surface of wall and is installed at continuous point contact. See table below for fill material thickness requirements around cables.

Sealant or Putty Type	Thickness, In. (mm)	Packing Material Required
SpecSeal Series SSS Sealant or LCI Sealant	1/2 in. (13)	Yes
SpecSeal Series SSS Sealant or LCI Sealant	1 in. (25)	No
SpecSeal Putty	1 in. (25)	No

SPECIFIED TECHNOLOGIES INC - SpecSeal Series SSS Sealant, SpecSeal LCI Sealant or SpecSeal Putty
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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2. Through Penetrant - One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. Pipe, conduit or tubing may be installed at an angle not greater than 45 degrees from perpendicular. The annular space between pipe, conduit or tubing and periphery of opening shall be min 0 in. (0 mm, point contact) to max 2 in. (51 mm). For maximum 16 in. (406 mm) diam (or smaller) pipes, annular space shall be min 0 in. (0 mm, point contact) to max 2 in. (51 mm). Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. Steel Pipe - Nom 36 in. (914 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe - Nom 36 in. (914 mm) diam (or smaller) cast or ductile iron pipe.
   C. Conduit - Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing, nom 6 in. (152 mm) diam (or smaller) steel conduit or nom 1 in. (25 mm) diam (or smaller) flexible steel conduit.
   D. Copper Tubing - Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
   E. Copper Pipe - Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.
3. Fill, Void or Cavity Material* - Sealant - Min 5/8 in. (16 mm) thickness of fill material applied within annulus, flush with both surfaces of wall. At the point contact location between through penetrant and gypsum board, a min 3/8 in. (10 mm) diam bead of fill material shall be applied at the gypsum board/through penetrant interface on both surfaces of wall.
   SPECIFIED TECHNOLOGIES INC - SpecSeal Series SSS Sealant or SpecSeal LCI Sealant
   * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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3. Cables - Cables may represent a 0 to 100 percent visual fill within the loading area for each firestop device module. Cables to be rigidly supported on both sides of the wall assembly. Any combination of the following types of cables may be used:
   A. Max 400 pair No. 24 AWG (or smaller) copper conductor telecommunication cable with polyvinyl chloride (PVC) jacketing and insulation.
   B. Max 350 kcmil single copper conductor power cable with XLPE jacket and insulation
   C. Max 7/C No. 12 AWG copper conductor control cable with PVC or XLPE jacket and insulation.
   D. Max 3/C No. 10 AWG metal clad or armored cable with steel or aluminum jacket.
   E. Max 3/C No. 8 AWG NM cable (Romex) with PVC insulation and jacket.
   F. Max four pair No. 22 AWG (or smaller) copper conductor data cable with PVC or plenum rated jacketing and insulation.
   G. Max RG/U coaxial cable with fluorinated ethylene insulation and jacketing.
   H. Optical fiber cable with PVC or polyethylene (PE) jacket and insulation and having a max diam of 5/8 in. (16 mm).

   When Item 3A, 3B, 3C, 3D or 3E is used, the F and FH Ratings are 2 hr and the T, FT and FTH Ratings are 3/4 hr. When max 200 pair No. 24 AWG telecommunication cable is used or when Item 3F, 3G or 3H is used, the F and FH Ratings are 4 hr and the T, FT and FTH Ratings are 1 hr.

   The L Rating for each empty firestop device module is less than 1 cfm at ambient and at 400F. When Item 3A is used, the L Rating for each firestop device module with 100 percent visual fill is 4 cfm at ambient and 3 cfm at 400F. When Item 3F is used, the L Rating for each firestop device module with 100 percent visual fill is 1.3 cfm at ambient and less than 1 cfm at 400F. When Item 3G or 3H is used, the L Rating for each firestop device module with 100 percent visual fill is 7 cfm at ambient and 2 cfm at 400F.
   * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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SpecSeal Putty Pads, for use with max 5 by 5 by 2 7/8 in. (127 by 127 by 73 mm) deep flush device UL Listed Metallic Outlet Boxes or UL Listed Communications-Circuit Accessories manufactured by Randl Industries Inc for use in 1 hr or 2 hr fire rated gypsum board wall assemblies framed with min 3-5/8 in. (92 mm) wide wood or steel studs and constructed as specified in the individual U300, U400, or V400 or W400 Series Wall and Partition Designs in the Fire Resistance Directory. Metallic outlet boxes to be provided with UL Listed Signal Appliance with steel cover plate manufactured by Cooper Wheelock Inc. Moldable putty pads are to be installed to completely cover the exterior surfaces of the outlet box (except for the side of the outlet box against the stud unless otherwise noted) including nailing tabs and to completely seal against the stud within the stud cavity. Multiple moldable putty pads may be installed on an outlet box to attain the required minimum thickness of putty material. Additional putty material used to seal around each conduit and/or cable fitting on the exterior of each box. A min 3/16 in. (4.8 mm) thickness of putty material is required on the exterior surfaces of flush device boxes in 1 and 2 hr fire rated Wall and Partition Designs. When the moldable putty pad outlet box protective material is used on boxes on both sides of wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in. (610 mm) provided that the outlet boxes are not installed back to back, except as noted.

SpecSeal EP55 Power Shield Box Inserts, for use with max 5 by 5 by 2 7/8 in. (127 by 127 by 73 mm) deep flush device UL Listed Metallic Outlet Boxes or UL Listed Communications-Circuit Accessories manufactured by Randl Industries Inc for use in 1 hr or 2 hr fire rated gypsum board wall assemblies framed with min 3-5/8 in. (92 mm) wide wood or steel studs and constructed as specified in the individual U300, U400, or V400 or W400 Series Wall and Partition Designs in the Fire Resistance Directory. Metallic outlet boxes to be provided with UL Listed Signal Appliance with steel cover plate manufactured by Cooper Wheelock Inc. Power Shield Box Insert is to be applied to the back surface of the box and may be slit to accommodate communications-circuit accessories. When the Power Shield Box Insert is used on boxes on both sides of wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in. (610 mm) provided that the outlet boxes are not installed back to back, except as noted.

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RATED ASSEMBLY PENETRATIONS | SCALE: NTS | 1

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BAKERSFIELD, CA 93309

CENTRAL VALLEY
CONTINUATION HIGH SCHOOL CAMPUS
526 MANNEL AVENUE
SHAFTER, CA 93263

DRAWING SUBMITTAL SCHEDULE	
100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO:22434-E-02

TECHNOLOGY RATED ASSEMBLY PENETRATION DETAILS

T-807

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CENTRAL VALLEY CONTINUATION HIGH SCHOOL

526 MANNEL AVENUE
SHAFTER, CA 93263

HEALTH DEPARTMENT NOTES

THE FOLLOWING ARE THE MINIMUM STANDARDS FOR COMPLIANCE WITH HEALTH DEPARTMENT REQUIREMENTS. THE G.C. AND KEC CONTRACTOR SHALL COMPLY WITH THESE MINIMUM STANDARDS, DRAWINGS AND SPECIFICATIONS.

1. A CONCRETE SLAB IS PROVIDED FOR TRASH, GARBAGE, AND GREASE CONTAINER. IF WALLS ENCLOSE THIS AREA, THE INTERIOR WALL SURFACE WILL BE SMOOTH, SEALED AND WASHABLE (e.i.,PLASTERED SMOOTH AND PAINTED, ETC.)
2. ALL FOOD-RELATED AND UTENSIL-RELATED EQUIPMENT SHALL MEET OR BE EQUIVALENT TO SANITATION STANDARDS ESTABLISHED BY AN AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) ACCREDITED PROGRAM.
3. ALL FLOOR MOUNTED EQUIPMENT WILL BE INSTALLED ON MINIMUM 6" SANITARY LEGS, CASTERS OR COMPLETELY SEALED IN POSITION ON A 4" HIGH CURB WITH CONTINUOUSLY COVED BASE. COUNTERTOP EQUIPMENT WILL BE ON 4" SANITARY LEGS OR SEALED TO THE COUNTER UNLESS READILY MOVABLE.
4. FOR ALL SELF-SERVICE SODA, ICE AND OTHER DISPENSERS WHERE REFILLS ARE PROVIDED THEY MUST BE PUSH BUTTON TYPES, OR LEVER TYPES WHERE THE LEVER CONTACTS THE CONTAINER AT LEAST ONE INCH BELOW THE RIM.
5. ANY OPERABLE WINDOWS, VENT OPENING, OR OTHER SIMILAR OPENINGS MUST BE PROVIDED WITH TIGHT FITTING SCREENS OF MINIMUM 16 MESH TO THE INCH. WINDOWS SHALL BE FIXED AT FOOD PREP, UTENSIL-WASHING, OPEN FOOD AND UTENSIL STORAGE AREAS.
6. ALL EXTERIOR DOORS SHALL OPEN OUTWARD, BE SELF-CLOSING AND TIGHT FITTING.
7. BI-FOLD, FRENCH, ACCORDION STYLE AND ROLL-UP DOORS CANNOT OPEN INTO THE FOOD PREP, UTENSIL WASHING OR UNPACKAGED FOOD SERVICE AREAS.
8. TOILET ROOM AND DRESSING ROOM DOORS MUST BE SELF-CLOSING AND TIGHT FITTING.
9. DELIVERY DOORS SHALL HAVE AIR CURTAIN FANS THAT SPAN THE WIDTH OVER THE DOOR. THE FAN MUST ACTIVATE VIA A MICROSWITCH PROVIDING A MINIMUM VELOCITY OF 1600 FPM MEASURED 3 FEET ABOVE THE GROUND.
10. A MINIMUM OF 10 FOOT-CANDLES OF LIGHT MEASURED 30" OFF FLOOR SHALL BE PROVIDED IN WALK-IN REFRIGERATED STORAGE AND DRY STORAGE AREAS.
11. A MINIMUM OF 20-FOOT CANDLES OF LIGHT SHALL BE PROVIDED WHERE FOOD, FRESH PRODUCE OR PRE-PACKAGED ITEMS ARE PROVIDED FOR CONSUMER SELF-SERVICE AND SOLD OR OFFERED FOR CONSUMPTION INSIDE EQUIPMENT, IN AREAS USED FOR HAND WASHING, WAREWASHING, UTENSIL STORAGE, AND TOILET ROOMS.
12. A MINIMUM OF 50 FOOT-CANDLES OF LIGHT MEASURED 30" OFF FLOOR SHALL BE PROVIDED WHEN WORKING WITH FOOD, UTENSILS, EQUIPMENT SUCH AS KNIVES, SLICERS, GRINDERS, AREAS WHERE EMPLOYEE SAFETY IS A FACTOR AND IN ALL AREAS DURING PERIODS OF CLEANING.
13. SHATTER SHIELDS SHALL BE PROVIDED FOR ALL LIGHTS ABOVE FOOD PREPARATION, WORK, AND STORAGE AREAS.
14. ALL WAREWASHING SINKS TO HAVE 3 COMPARTMENTS THAT ARE A MINIMUM SIZE OF AT LEAST 18"X18"X12" DEEP (OR 16"X20"X12" DEEP) WITH A MINIMUM 18" DRAINBOARD AT EACH END. IF AGAINST A WALL, IT MUST HAVE AN 8" INTEGRAL BACKSPLASH. HOWEVER, IT MUST BE CAPABLE OF ACCOMMODATING THE LARGEST UTENSIL TO BE WASHED. A WAREWASHING MACHINE DOES NOT SUBSTITUTE FOR SINK REQUIREMENT. 3 OR 4 COMPARTMENT BAR SINKS TO BE AT LEAST 12"X12"X10" DEEP (OR 10"X14"X10" DEEP) WITH A MINIMUM 18" DRAINBOARD AT EACH END.
15. ALL SINKS SHALL HAVE SPOUT(S) CAPABLE OF REACHING EACH COMPARTMENT.
16. FOOD PREP SINK COMPARTMENT(S) TO BE AT LEAST 18"X18"X12" DEEP (OR 16"X20"X12" DEEP) WITH A MINIMUM 18" DRAINBOARD. SEPARATE FOOD PREP SINKS SHALL BE PROVIDED FOR MEATS AND PRODUCE.
17. A SEPARATE WET WASTE DUMP FIXTURE SHALL BE PROVIDED FOR DISPOSAL OF DRINK OR ICE WASTE.
18. EACH HAND WASHING SINK MUST HAVE PERMANENTLY MOUNTED SINGLE-SERVICE SOAP AND PAPER TOWEL DISPENSERS.
19. THE HOT WATER HEATER WILL BE A COMMERCIAL TYPE CAPABLE OF CONSTANTLY SUPPLYING HOT WATER AT A TEMPERATURE OF 120° F TO ALL SINKS. IN SIZING THE WATER HEATER, THE PEAK HOURLY DEMAND FOR ALL SINKS, ETC., ARE ADDED TOGETHER TO DETERMINE THE MINIMUM REQUIRED RECOVERY RATE.
20. ALL LAVATORIES OR HAND SINKS WILL HAVE A COMBINATION FAUCET OR PREMIXING FAUCET CAPABLE OF SUPPLYING WATER TEMPERED TO 100°-108°F. SELF-CLOSING OR METERED FAUCET TO PROVIDE AT LEAST 15 SECONDS OF WATER WITHOUT REACTIVATION.
21. ALL PLUMBING, ELECTRICAL AND GAS LINES SHALL BE CONCEALED WITHIN THE BUILDING STRUCTURE TO GREAT AN EXTENT AS POSSIBLE. ALL EXPOSED CONDUITS, PLUMBING, ETC. SHALL BE INSTALLED AT LEAST 6" OFF FLOOR AND 3/4" FROM WALLS USING STANDOFF BRACKETS.
22. CONDUITS, PLUMBING OR PIPING CANNOT BE INSTALLED ACROSS ANY AISLE WAY, TRAFFIC AREA OR DOOR OPENING.
23. MULTIPLE RUNS OR CLUSTERS OF CONDUIT OR PIPELINES SHALL BE FURRED IN OR ENCASED IN AN APPROVED SEALED ENCLOSURE.
24. ALL LIQUID WASTE SHALL BE DRAINED BE MEANS OF INDIRECT WASTE PIPES INTO A FLOOR SINK. FLOOR SINKS ARE TO BE INSTALLED FLUSH WITH THE FINISHED FLOOR SURFACE AND HAVE SUITABLE EASILY REMOVABLE SAFETY COVER GRATES.
25. FLOOR SINK TO BE 50% EXPOSED WHEN NO ACCESS IS PROVIDED FOR CLEANING OR BE IN LINE WITH THE FRONT FACE OF ELEVATED FREESTANDING EQUIPMENT.
26. APPROVED BACKFLOW PREVENTION DEVICES SHALL BE PROPERLY INSTALLED UPSTREAM OF ANY POTENTIAL HAZARD BETWEEN THE POTABLE WATER SUPPLY AND A SOURCE OF CONTAMINATION. HOSES SHALL NOT BE ATTACHED TO A FAUCET OR HOSE BIBB UNLESS AN APPROVED BACKFLOW PREVENTER IS PROVIDED.
27. WATER SUPPLY TO CARBONATORS SHALL BE PROTECTED BY AN APPROVED REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER. THE RELIEF VALVE SHALL DRAIN INDIRECTLY TO SEWER WITH A LEGAL AIR GAP.
28. FOR CLEANING FLOOR MATS, THE JANITORIAL SINK SHALL BE A MINIMUM 24" BY 36" FLOOR-MOUNTED TYPE. MOPS SHALL BE PLACED IN A POSITION THAT ALLOWS THEM TO AIR-DRY WITHOUT SOILING WALLS, EQUIPMENT, OR SUPPLIES.
29. THE JANITORIAL SINK FAUCET WILL HAVE A THREADED OUTER LIP FOR HOSE ATTACHMENT AND AN APPROVED BACKFLOW PREVENTION DEVICE. NO CHEMICAL DISPENSING SYSTEMS OR SHUTOFF VALVES TO BE ATTACHED TO MOP SINK FAUCET OUTLET UNLESS A "SIDEKICK" PLUMBING DEVICE IS INSTALLED).
30. NO CONDENSATE OR WASTEWATER INCLUDING HVAC WILL DRAIN INTO THE JANITORIAL SINK.
31. GREASE TRAP TO BE LOCATED OUTSIDE THE FOOD SERVICE ACTIVITY AREA, FLUSH WITH THE FINISHED FLOOR WHEN INDOORS. LOCAL WASTEWATER DISTRICT OR BUILDING DEPARTMENT TO BE CONTACTED FOR GREASE REMOVAL REQUIREMENTS.
32. FLOOR DRAINS SHALL BE INSTALLED IN FLOORS THAT ARE WATER-FLUSHED FOR CLEANING AND IN AREAS WHERE PRESSURE SPRAY METHODS FOR CLEANING EQUIPMENT ARE USED, IN RESTROOMS, JANITORIAL ROOMS, SCULLERIES, AND AT BARS WITH WAREWASHING. FLOOR SURFACES IN AREAS PURSUANT TO THIS SHALL BE SLOPED 1:50 TO THE FLOOR DRAINS.
33. ADEQUATE VENTILATION SHALL BE PROVIDED TO ALL TOILET ROOMS, JANITOR CLOSETS WITH MOP SINKS, INDOOR TRASH ROOMS AND IN DRESSING/ CHANGING ROOM(S).
34. THE FLOOR FINISH SHALL HAVE A SMOOTH SURFACE UNDER ALL EQUIPMENT AND WALKWAYS WILL HAVE A LIGHT TEXTURE ONLY.
35. THE PAINT USED ON WALLS AND CEILINGS OF ALL KITCHEN, FOOD PREPARATION, WORK, STORAGE AREAS SHALL BE GLOSS OR SEMI-GLOSS ENAMEL. FINISH MATERIAL SHALL BE LIGHT COLOR IN FOOD PREP AREAS FOR EASY CLEANING.
36. PRIOR TO INSTALLATION, SAMPLES OF FINISHES SHALL BE SUBMITTED TO ENVIRONMENTAL HEALTH FOR APPROVAL AS NEEDED.
37. COLD STORAGE ROOMS SHALL BE PROVIDED WITH A SECTION OF SHELVING INSTALLED TO HOLD SHALLOW COOL DOWN PANS - NOT TO EXCEED 4" IN HEIGHT. SPACE BETWEEN SHELVING TO BE AT LEAST 8" HIGH.
38. BACKUP DRY STORAGE SHELVING SHALL BE A MINIMUM OF 96 LINEAR FEET (MEASURED WITH TIERS) OR 25% OF KITCHEN, FOOD PREP, AND WORK AREAS, WHICHEVER IS GREATER. SHELVING SHALL BE AT LEAST 18 INCHES DEEP AND START A MINIMUM SIX INCHES OFF THE FLOOR SURFACE.
39. SHELVING OVER WET AREAS (SINKS, MOP SINKS ETC.) AND FOOD PREP SURFACES SHALL BE METAL.
40. ALL SEAMS, GAPS, OPENINGS SHALL BE PROPERLY SEALED PER CODE.
41. ALL EMPLOYEE RESTROOMS SHALL BE PROVIDED WITH SOAP & TOWEL DISPENSERS.

FINISH SCHEDULE

AREA	FLOOR	BASE	WALL	CEILING	REMARKS
	COMMERCIAL EPOXY	COMMERICAL EPOXY	MIN 8' HIGH F.R.P. BOARD AT FOOD PREP AREA WITH PAINTED GYP. ABOVE (MIN.)	WASHABLE ACT	
SERVING AREA	•	•	•	•	
KITCHEN	•	•	•	•	
DRY STORAGE	•	•	•	•	
EMPLOYEE RESTROOM	•	•	•	•	
CUSTODIAL	•	•	•	•	

FINISH NOTES

1. ALL BASES IN ABOVE FINISH SCHEDULE SHALL BE A CONTINUOUS COVE BASE MINIMUM 4" HIGH W/ 3/8" RADIUS.
2. ALL PAINTED AREAS SHALL BE ENAMEL SEMI-GLOSS LIGHT-COLORED, SMOOTH AND EASILY CLEANABLE, W/ 75% REFLECTANCE OR GREATER.
3. ACOUSTIC PANEL SHALL BE ARMSTRONG CLEAN ROOM OR EQUAL.
4. SLIM FOOT TO BE HUNTINGTON PACIFIC CERAMIC MODEL # S3619T.
5. GENERAL CONTRACTOR MAY BE REQUIRED TO SUBMIT A SAMPLE OF CEILING TILE AND SLIM FOOT TO HEALTH DEPARTMENT FOR APPROVAL PRIOR TO CONSTRUCTION.
6. STAINED SEALED CONCRETE TO BE ACID AND GREASE RESISTANT AND USDA APPROVED.

GENERAL NOTES

1. ALCOHOL NOT SOLD ON PREMISES
2. MAXIMUM NUMBER OF EMPLOYEES PER SHIFT: 1
3. WATER DISTRICT: KERN COUNTY WATER AGENCY
4. SEWER DISTRICT: KERN COUNTY PUBLIC WORKS
5. SINGLE USE UTENSILS

ESTABLISHMENT SQUARE FEET: 2300 SQ. FT.

SCOPE OF WORK: NEW KITCHEN AND STUDENT SERVING/DINING FACILITY. NO EXHAUST HOOD OR WALK-IN REFRIGERATION.

OWNER INFORMATION

OPERATOR/OWNER: KERN HIGH SCHOOL DISTRICT
CONTACT PERSON: JOHN COHRS
PHONE: 661-827-3100

VICINITY MAP

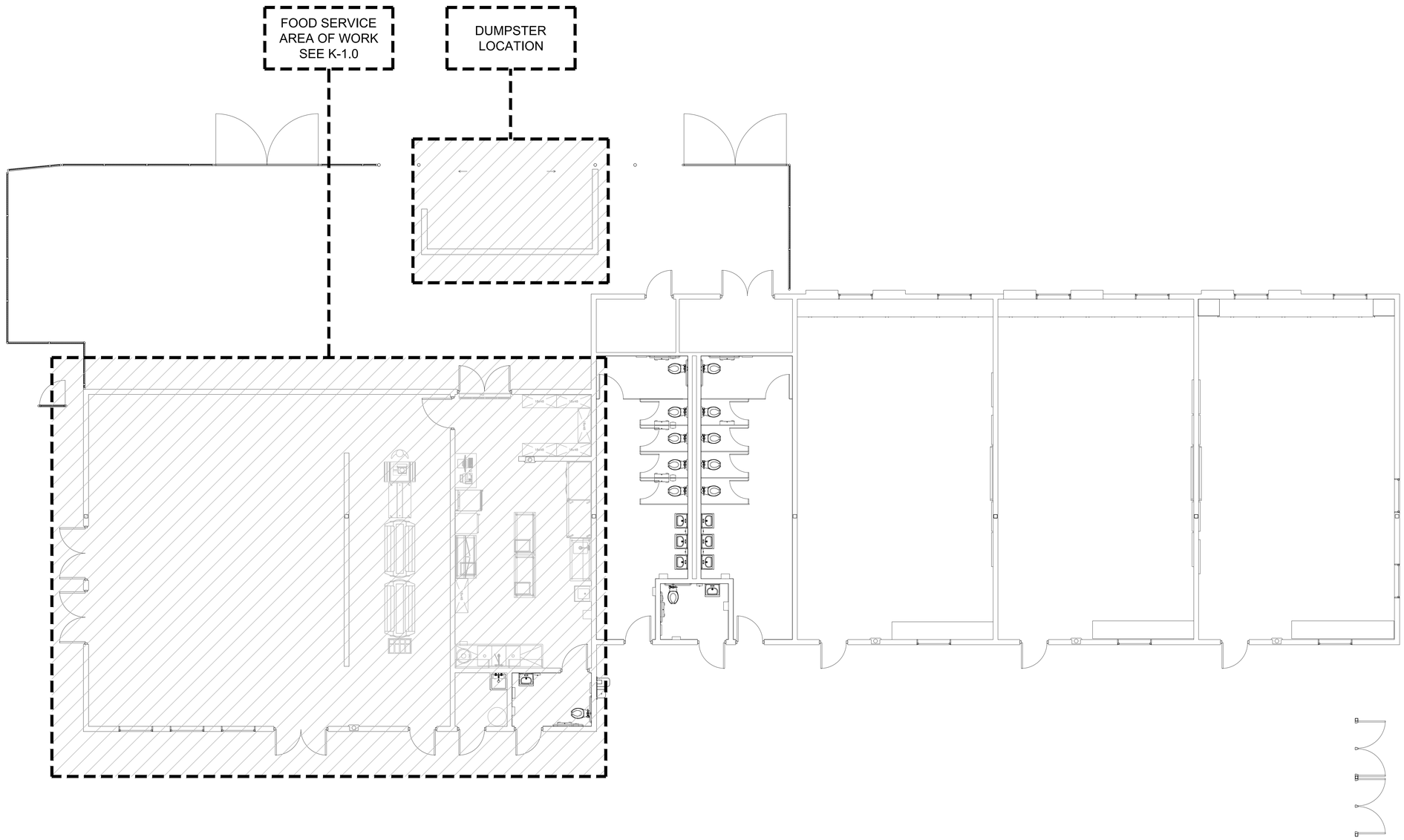
SHEET INDEX

K-T	FOODSERVICE TITLE SHEET AND FINISH SCHEDULE
K-001	BUILDING 200 FLOOR PLAN
K-100	FOODSERVICE EQUIPMENT PLAN
K-200	FOODSERVICE EQUIPMENT SCHEDULE
K-300	FOODSERVICE ELECTRICAL ROUGH-IN PLAN
K-400	FOODSERVICE UNDERSLAB PLUMBING ROUGH-IN PLAN
K-410	FOODSERVICE ABOVE SLAB PLUMBING ROUGH-IN PLAN
K-500	FOODSERVICE EQUIPMENT ELEVATIONS AND SECTIONS
K-600	FOODSERVICE WALL BACKING ROUGH-IN PLAN
K-700	FOODSERVICE ANCHORAGE DETAILS

TRASH DUMPSTER LOCATION

SEE K-0.0 FOR TRASH DUMPSTER LOCATION

ALL ABBREVIATIONS ON THIS PLAN ARE BEING DESIGNED BY FOOD SERVICE DESIGN GROUP FROM AVAILABLE INFORMATION, BUT FOOD SERVICE DESIGN GROUP ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE INFORMATION SHOWN ON THE ARCHITECTURAL AND ENGINEERING DRAWINGS. FOOD SERVICE DESIGN GROUP HAS NOT VERIFIED ANY OF THE INFORMATION AND DOES NOT WARRANT THE ACCURACY OF THE INFORMATION. FOOD SERVICE DESIGN GROUP IS NOT RESPONSIBLE FOR THE RECOMMENDATIONS OF ANY OTHERS AND DISCLAIMS ANY LIABILITY FOR ANY



BUILDING 200 FLOOR PLAN
SCALE: 3/16" = 1'-0"

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BAKERSFIELD, CA 93309

CENTRAL VALLEY
CONTINUATION HIGH SCHOOL CAMPUS
526 MANNEL AVENUE
SHAFTER, CA 93263

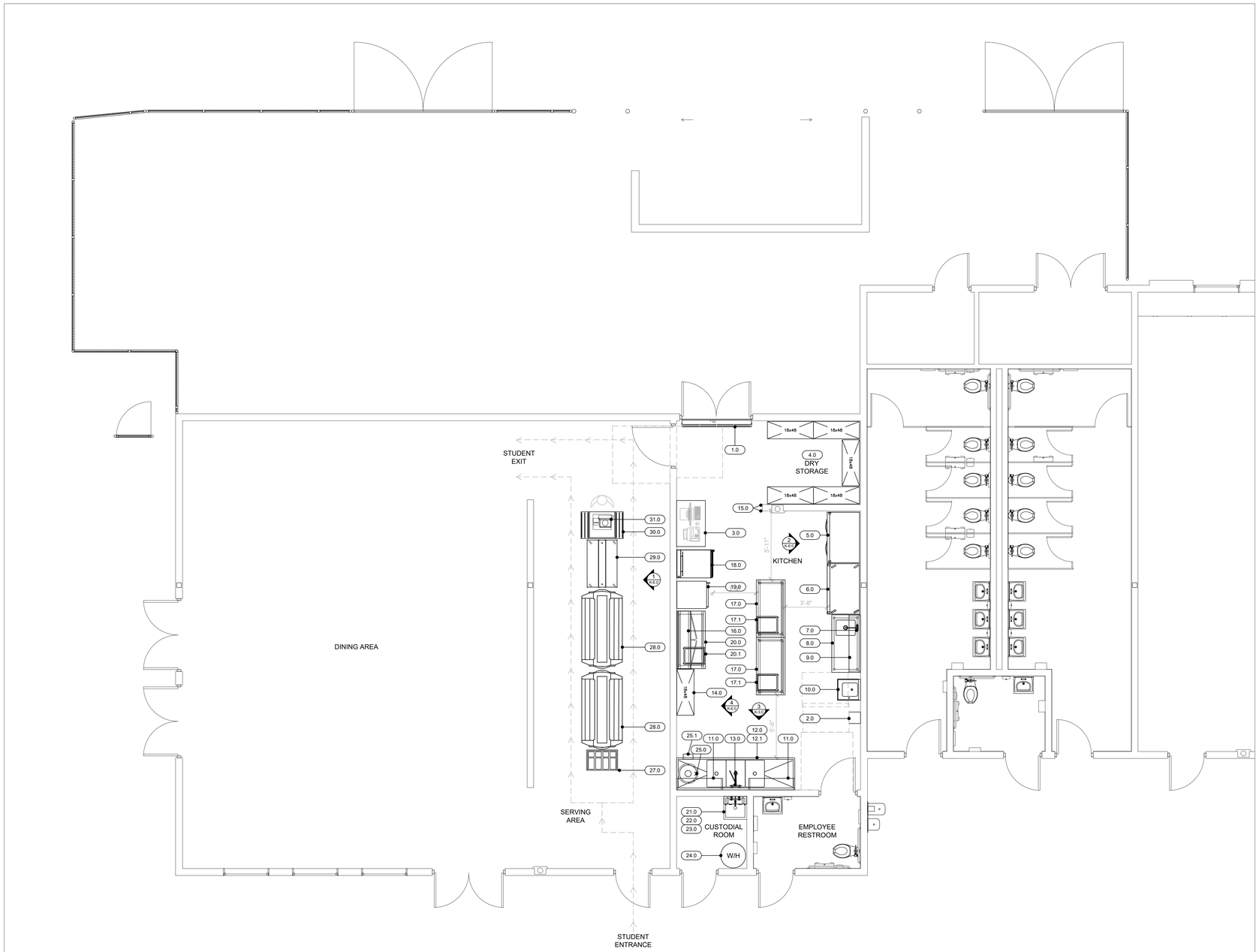
DRAWING SUBMITTAL SCHEDULE

	100% DD SET	07/08/2025
	50% CONSTRUCTION DOCUMENTS	10/10/2025
	100% CONSTRUCTION DOCUMENTS	11/21/2025
	DWG V2	02/27/2026
	DWG V3	04/28/2026

PROJECT NO: 22434-E-01

BUILDING 200
FLOOR PLAN

K-001



EQUIPMENT LIST

NO.	QTY	ITEM / DESCRIPTION
1.0	1	AIR CURTAIN
2.0	2	DOUBLE TIER EMPLOYEE LOCKER
3.0	1	DESK (48"X30")
4.0	LOT	DRY STORAGE SHELVING (CHROME COATED, 5 TIERS PER UNIT, 86" POSTS)
5.0	1	REACH-IN FREEZER (2-DOOR, SELF CONTAINED)
6.0	1	REACH-IN REFRIGERATOR (2-DOOR, SELF CONTAINED)
7.0	1	DECK MOUNT FAUCET
8.0	1	PREP SINK TABLE (30"X60)
9.0	1	WALL SHELF (12"X60")
10.0	1	ADA HAND SINK W/ BUILT-IN SOAP AND TOWEL DISPENSER AND MIN 6" SPLASH GUARDS
11.0	2	WALL SHELF (12"X48")
12.0	1	3 COMPARTMENT SINK (20"X28" COMPARTMENTS AND 30" DRAINBOARDS)
12.1	3	TWIST WASTE VALVE
13.0	1	PRE-RINSE W/ FAUCET
14.0	LOT	DRY STORAGE SHELVING (EPOXY COATED, 4 TIERS PER UNIT, 86" POSTS)
15.0	2	CORNER GUARD
16.0	1	WALL CABINET W/ HINGED DOORS (15" X 60")
17.0	2	WORK TABLE (30"X60", W/ UNDERSHELF, NO BACKSPLASH) (W/ CASTERS)
18.0	1	RETHERMALIZER / HOLD CABINET
19.0	1	MOBILE HEATED HOLDING CABINET
20.0	1	WORK TABLE (30"X60", W/ OPEN BOTTOM, 5" BACKSPLASH)
20.1	1	UTENSIL DRAWER
21.0	1	MOP SINK (FLOOR MOUNTED, NON-POUROUS, MIN 24"X24")
22.0	1	SERVICE FAUCET
23.0	1	JANITORIAL SHELF W/ MOP AND BROOM RACK
24.0	1	WATER HEATER (ELECTRIC, TANK TYPE)
25.0	1	GARBAGE DISPOSER (MOUNTED TO DRAINBOARD)
26.0		SPARE NUMBER
27.0	1	MOBILE TRAY / UTENSIL STATION
28.0	2	MOBILE FOOD BAR W/ TRAY SLIDES
29.0	1	MOBILE MILK COOLER
30.0	1	MOBILE CASHIER STATION W/ TRAY SLIDES
31.0	1	P.O.S. SYSTEM

FOOD SERVICE EQUIPMENT FLOOR PLAN
SCALE: 1/4" = 1'-0"

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PROJECT NO: 22434-E-01

FOODSERVICE EQUIPMENT FLOOR PLAN

K-100

EQUIPMENT SCHEDULE

EQUIPMENT						ELECTRICAL							PLUMBING								REMARKS
											CONNECT		SUPPLY		WASTE				GAS		
NO.	QTY	DESCRIPTION	MANUFACTURER	MODEL #	WEIGHT (LBS)	ANCHORAGE DETAIL	V	PH	AMP	KW	HP	WIRED DIR	CORD/ PLUG	P.O.C. HOT	P.O.C. COLD	SIZE	DIR	INDIRECT FD	INDIRECT FS	INDIRECT TD	SIZE	MBH	
1.0	1	AIR CURTAIN	BERNER	SLC07-1072A	72	G/K-700	208	1	1.7	0.35		X											
2.0	2	DOUBLE TIER EMPLOYEE LOCKER	WINHOLT	WL-21	52	I/K-700																	
3.0	1	DESK (48"X30")	BY SCHOOL DISTRICT																				
4.0	LOT	DRY STORAGE SHELVING (CHROME COATED, 5 TIERS PER UNIT, 86" POSTS)	WINCO	VC SERIES		E/K-700																	
5.0	1	REACH-IN FREEZER (2-DOOR, SELF CONTAINED)	TRUE	STR2F-2S-HC	704	H/K-700	120	1	9.4	1.13	1-1/4		5-15P										
6.0	1	REACH-IN REFRIGERATOR (2-DOOR, SELF CONTAINED)	TRUE	STR2R-2S-HC	650	H/K-700	120	1	5.9	0.71	1/2		5-15P										
7.0	1	DECK MOUNT FAUCET	T&S BRASS	B-1113	4									1/2"	1/2"								
8.0	1	PREP SINK TABLE (30"X60)	JOHN BOOS	EPT6R5-3060-SSK-L	171											1-1/2"			X				
9.0	1	WALL SHELF (12"X60")	JOHN BOOS	BHS1260	21	D/K-700																	
10.0	1	ADA HAND SINK W/ BUILT-IN SOAP AND TOWEL DISPENSER AND MIN 6" SPLASH GUARDS	JOHN BOOS	PBHS-ADA-P-STD-SSLR	48									1/2"	1/2"	1-1/2"	X						
11.0	2	WALL SHELF (12"X48")	JOHN BOOS	BHS1248	16	D/K-700																	
12.0	1	3 COMPARTMENT SINK (20"X28" COMPARTMENTS AND 30" DRAINBOARDS)	JOHN BOOS	3PB20284-2D30	200	B/K-700										1-1/2"			X				
12.1	3	TWIST WASTE VALVE	T&S BRASS	B-3940																			
13.0	1	PRE-RINSE W/ FAUCET	T&S BRASS	B-0133-01	15									1/2"	1/2"								
14.0	LOT	DRY STORAGE SHELVING (EPOXY COATED, 4 TIERS PER UNIT, 86" POSTS)	WINCO	VEX SERIES		E/K-700																	
15.0	2	CORNER GUARD	JOHN BOOS	CORNER482-OUT	4																		
16.0	1	WALL CABINET W/ HINGED DOORS (15" X 60")	JOHN BOOS	WCH-60	151	D/K-700																	
17.0	2	WORK TABLE (30"X60", W/ UNDERSHELF, NO BACKSPLASH) (W/ CASTERS)	JOHN BOOS	ST6-3060SSK	88																		
17.1	2	UTENSIL DRAWER	JOHN BOOS	DR2015-S30	19																		
18.0	1	RETHERMALIZER / HOLD CABINET	F.W.E.	RH-18-MT	680	J/K-700	208	1	49.1	10.21			6-50P		1/4"	1/2"			X				
19.0	1	MOBILE HEATED HOLDING CABINET	METRO	C-569-SFS-U	375	F/K-700	120	1	16.0	2.00			5-20P										
20.0	1	WORK TABLE (30"X60", W/ OPEN BOTTOM, 5" BACKSPLASH)	JOHN BOOS	ST6R5-3060SBK	75																		
20.1	1	UTENSIL DRAWER	JOHN BOOS	DR2015-S30	19																		
21.0	1	MOP SINK (FLOOR MOUNTED, NON-POUROUS, MIN 24"X24")	BY PLUMBING CONTRACTOR													TBD	X						
22.0	1	SERVICE FAUCET	T&S BRASS	B-0362	7									1/2"	1/2"								
23.0	1	JANITORIAL SHELF W/ MOP AND BROOM RACK	JOHN BOOS	PB-MSS824	10																		
24.0	1	WATER HEATER (ELECTRIC, TANK TYPE)	BY PLUMBING CONTRACTOR				TBD	TBD	TBD	TBD		X			TBD	TBD			X				
25.0	1	GARBAGE DISPOSER (MOUNTED TO DRAINBOARD)	SALVAJOR	100-CA-12-MRSS	110		208	1	10.2	2.12		X			1/2"	2"							
25.1	1	GARBAGE DISPOSER CONTROL PANEL	SALVAJOR	MRSS4	16		115	1	5.0	0.60		X											
26.0		SPARE NUMBER																					
27.0	1	MOBILE TRAY / UTENSIL STATION	CAMBRO	TC1418	84																		
28.0	2	MOBILE FOOD BAR W/ TRAY SLIDES	CAMBRO	VBR6110	232																		
29.0	1	MOBILE MILK COOLER	BEVERAGE AIRE	ST49HC	336		120	1	3.7	0.44	1/2		5-15P										
30.0	1	MOBILE CASHIER STATION W/ TRAY SLIDES	CAMBRO	ES28RL110	87																		
31.0	1	P.O.S. SYSTEM	BY OWNER				120	1	5.0	0.60			5-15P										

NOTE: ALL FOODSERVICE EQUIPMENT TO BE CONTRACTOR PROVIDED / CONTRACTOR INSTALLED

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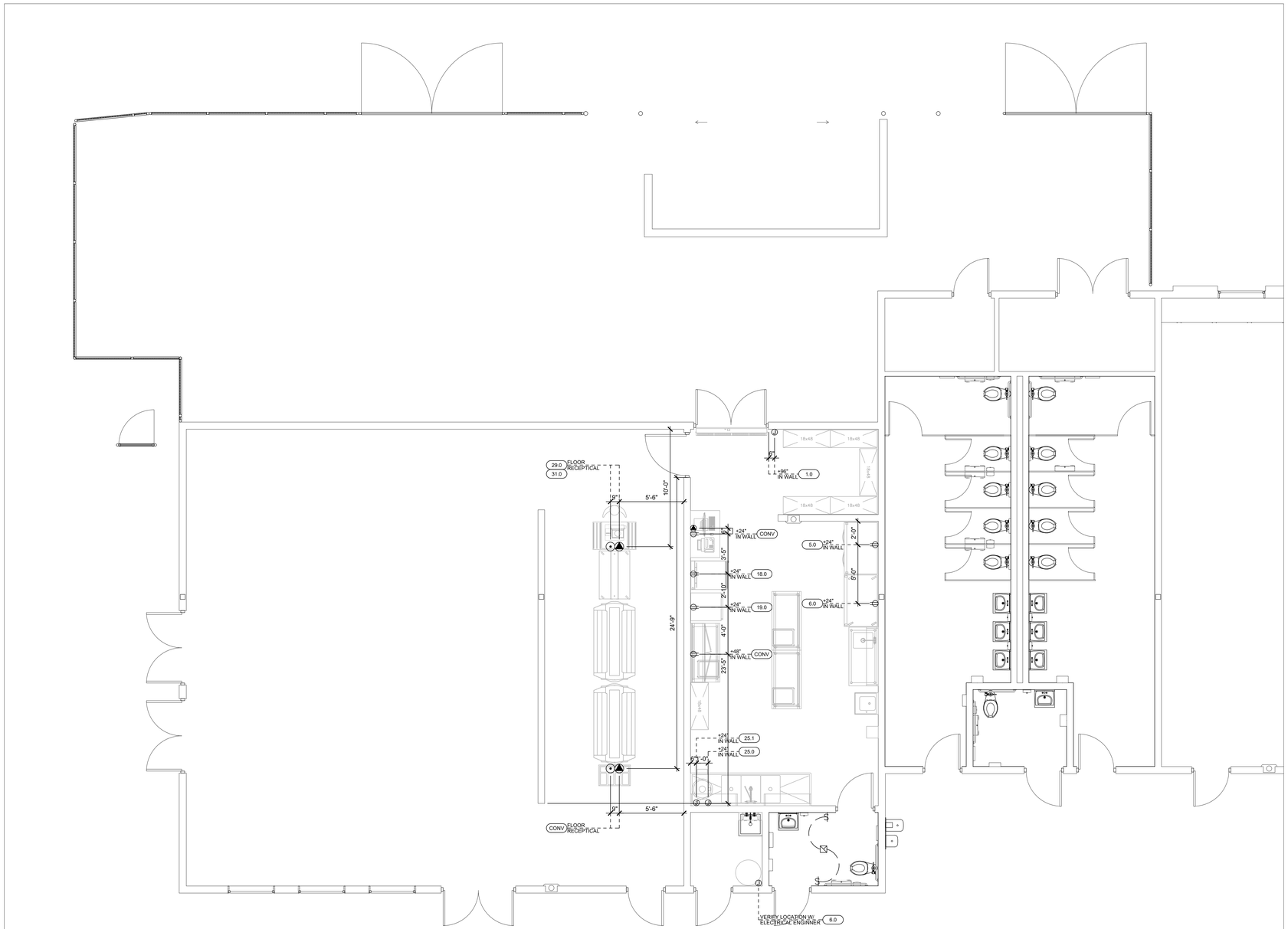

GENERAL ELECTRICAL NOTES

A. ALL ELECTRICAL ROUGH-INS SHOWN ON THIS PLAN ARE FOR FIXTURES AND EQUIPMENT SPECIFIED AS FURNISHED BY THE KITCHEN EQUIPMENT CONTRACTOR, UNLESS OTHERWISE NOTED. FOR ANY ADDITIONAL CONVENIENCE OUTLETS AND POWER NEEDED FOR NON FOOD SERVICE EQUIPMENT REFER TO ALL OTHER ELECTRICAL DRAWINGS & REQUIREMENTS.

B. ELECTRICAL CONTRACTOR MUST VERIFY EQUIPMENT BEING USED SO THAT THE SERVICE REQUIREMENTS ARE ADEQUATELY SIZED AND ROUGHED-IN PROPERLY (LOCATION & HEIGHT) SO AS TO MINIMIZE THE AMOUNT OF MATERIALS & FITTINGS NEEDED FOR FINAL HOOKUP RESULTING IN A NEAT AND ORDERLY LOOKING JOB. ALL DIMENSIONS FOR ITEM'S RUNNING UNDER SLAB ARE FROM CENTER LINE OF COLUMN, OR OUTSIDE EDGE OF SLAB, TO CENTER OF ROUGH-INS. ALL OTHER DIMENSIONS ARE FROM FACE STUD.

C. ALL OUTLETS & J-BOXES ARE TO BE SET HORIZONTALLY, MOUNTED FLUSH UNLESS NOTED OTHERWISE. ALL 120V OUTLETS NOT DESIGNATED WITH SPECIFIC LOADS, TO BE RATED AT 15 AMPS WITH MINIMUM LOOPING.

D. ALL SERVICES SHOWN WITH SYMBOLS CENTERED ON FACE OF WALL SHOULD BE BROUGHT TO THAT POINT CONCEALED IN WALL AND STUBBED OUT OF WALL CENTERED AT HEIGHT SHOWN. DO NOT STUB OUT OF FLOOR AND RUN EXPOSED UP FACE OF WALL.

E. ELECTRICAL CONTRACTOR SHALL BRANCH TO CONNECTIONS WHERE REQUIRED AND CONNECT ALL ELECTRICAL EQUIPMENT, FIXTURES, INCLUDING INTERNAL WIRING REQUIRED IN FIXTURES AND APPLIANCES AS REQUIRED BY CODE, SPECIFICATIONS AND/OR DRAWINGS.

F. ALL LABOR, SWITCHES, STARTERS, DISCONNECTS & FITTINGS REQUIRED FOR FOR FINAL CONNECTION OF EQUIPMENT AS NECESSARY TO COMPLY WITH ALL CODES, INCLUDING ALL INTER WIRING TO BE FURNISHED BY ELECTRICAL CONTRACTOR UNLESS SPECIFIED OTHERWISE IN FOOD SERVICE EQUIPMENT CONTRACT.

G. ALL ELECTRICAL OUTLET COVER PLATES ARE TO BE STAINLESS STEEL. THOSE REQUIRED IN BUILDING STRUCTURE ARE TO BE FURNISHED BY THE ELECTRICAL CONTRACTOR WITH RECEPTACLE. ALL MAIN BREAKER PANELS AND DISCONNECT SWITCHES REQUIRED BY OTHER ELECTRICAL DRAWINGS ARE TO BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR AT TIME OF INSTALLATION.

H. ELECTRICAL CONTRACTOR TO PROVIDE TIE-IN WIRING BETWEEN FIRE PROTECTION SYSTEM BOTTLE CONTROL HEAD, MICRO-SWITCH AND COOKING EQUIPMENT TO COMPLY WITH APPLICABLE LOCAL CODE REQUIREMENTS FOR EMERGENCY SHUTDOWN OF ENTIRE COOKLINE EQUIPMENT AND ELECTRICAL POWER. SHUNT TRIP CIRCUITRY MAY BE REQUIRED, REFER TO ALL OTHER ELECTRICAL DRAWINGS & REQUIREMENTS.

I. ALL THREE (3) PHASE POWER CONNECTIONS TO BE ON A FOUR (4) WIRE SYSTEM. ALL SINGLE (1) PHASE POWER CONNECTIONS TO BE ON A THREE (3) WIRE SYSTEM UNLESS NOTED OTHERWISE.

J. ELECTRICAL CONTRACTOR SHALL RUN CONTROL WIRING BETWEEN WALK-IN COOLERS/ FREEZERS CONDENSER & EVAPORATOR, PULL WIRES FROM WALK-INS EVAPORATOR TO PANEL, SET ONE DISCONNECT PER EACH CONDENSING UNIT, INSTALL AND WIRE EXTRA LIGHTS IN WALK-IN COOLERS AND FREEZERS AS REQUIRED THRU DOOR SWITCH. WIRE HEAT STRIP TO SAME CIRCUIT AS WALK-IN LIGHTS AND PROVIDE WRAP AROUND HEATER CABLE ON ALL EVAPORATOR DRAIN LINES.

K. ELECTRICAL CONTRACTOR TO INSTALL HOOD LIGHTING, INTERCONNECT LIGHTS WHEN MORE THAN ONE LIGHT IS PROVIDED AND MAKE FINAL ELECTRICAL CONNECTIONS PER CODE.

ELECTRICAL LEGEND

	SINGLE OUTLET
	DUPLEX OUTLET
	QUAD OUTLET
	I.G. (ISOLATED GROUND) DUPLEX OUTLET
J	J-BOX (JUNCTION BOX)
D	DATA
	FLOOR RECEPTACLE
	CONDUIT STUB-UP FROM FLOOR
	DISCONNECT SWITCH
	TELEPHONE
S	REMOTE SWITCH
+12"	A.F.F. - ABOVE FINISHED FLOOR TO CENTER OF ROUGH-IN
E.C.	ELECTRICAL CONTRACTOR
CONV	CONVENIENCE OUTLET
	5 MIN. AIR EXCHANGE FAN, 12 EXCHANGES / HOUR VENTILATION IN ROOM IS LIGHT SWITCH ACTIVATED
	FIRE PULL STATION
	HOOD LIGHT

FOOD SERVICE EQUIPMENT ELECTRICAL ROUGH-IN PLAN
SCALE: 1/4" = 1'-0"

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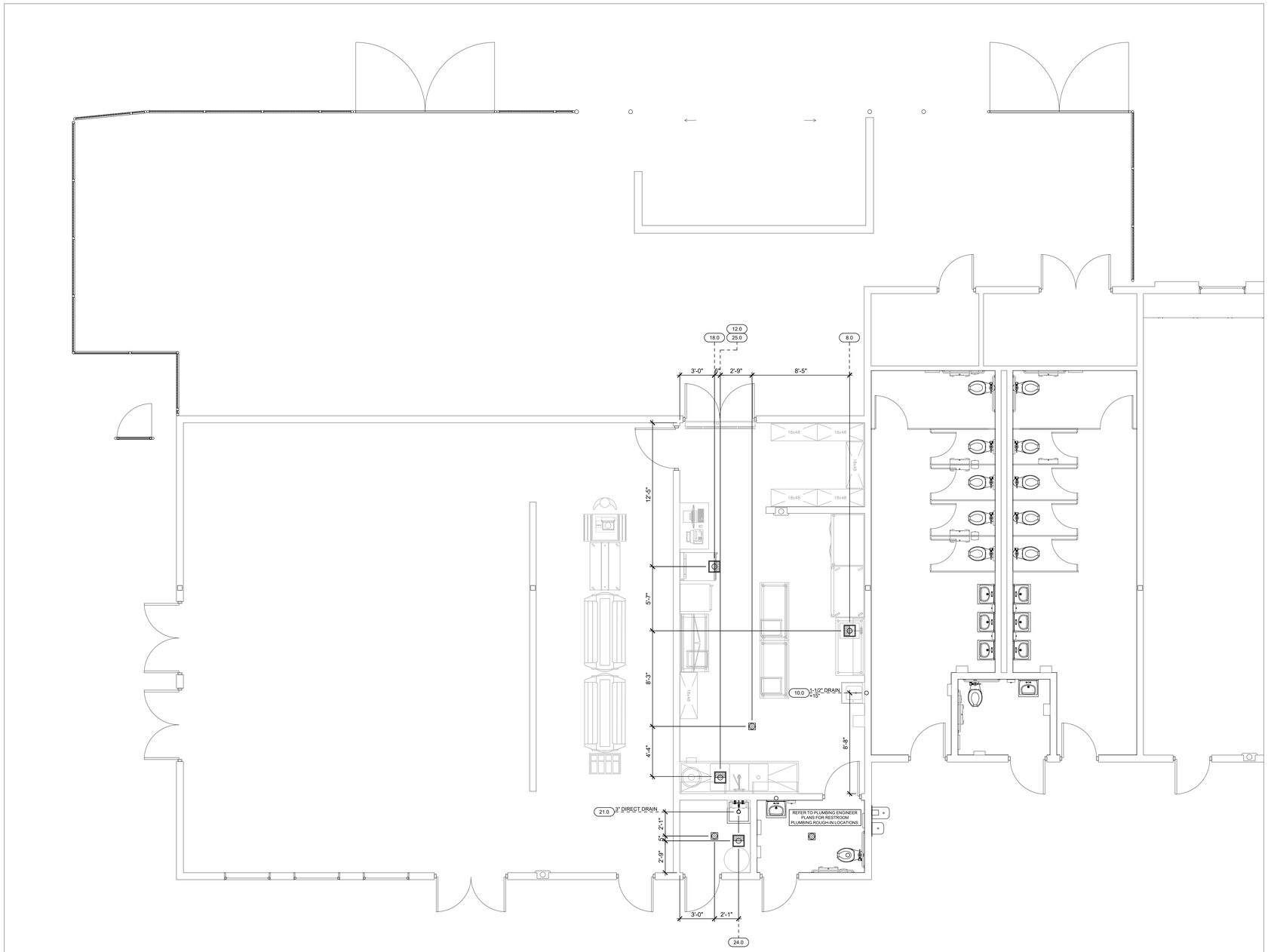
FOODSERVICE EQUIPMENT ELECTRICAL ROUGH-IN PLAN

K-300



FOOD SERVICE EQUIPMENT UNDER SLAB PLUMBING ROUGH-IN PLAN
SCALE: 1/4" = 1'-0"

GENERAL PLUMBING NOTES

A. PLUMBING CONTRACTOR MUST VERIFY EQUIPMENT BEING USED SO THAT THE SERVICE REQUIREMENTS ARE ADEQUATELY SIZED AND ROUGHED-IN PROPERLY (LOCATION & HEIGHT), SO AS TO MINIMIZE THE AMOUNT OF MATERIALS AND FITTINGS NEEDED FOR FINAL HOOKUP RESULTING IN A NEAT & ORDERLY LOOKING JOB. ALL DIMENSIONS FOR ITEM'S RUNNING UNDER SLAB ARE FROM CENTER LINE OF COLUMN TO CENTER OF ROUGH-IN'S. ALL OTHER DIMENSIONS ARE FROM FACE OF STUD.

B. ALL PLUMBING ROUGH-INS AND REQUIREMENTS SHOWN ON THIS SHEET ARE FOR FIXTURES AND EQUIPMENT FURNISHED BY THE KITCHEN EQUIPMENT SUPPLIER, UNLESS OTHERWISE NOTED. FOR ANY ADDITIONAL BUILDING PLUMBING REQUIREMENTS REFER TO ALL OTHER PLUMBING SHEETS.

C. PLUMBING SHALL NOT INTERFERE WITH OPERATION OR FUNCTION OF EQUIPMENT. SECURE TO EQUIPMENT, WALLS OR FLOOR AS REQUIRED BY CODE. ALL ROUGH-INS SHOWN ARE TO BE RUN INSIDE WALLS, (EXCEPT STUB-UPS). LOCATIONS INDICATE POINT OF EXIT FROM WALLS, CEILING OR FLOOR. ALL FLOOR & WALL PENETRATIONS MUST BE SEALED WATER TIGHT AND VERMIN PROOF.

D. ALL SERVICES SHOWN WITH SYMBOLS CENTERED ON FACE OF STUD WALL SHOULD BROUGHT TO THAT POINT CONCEALED IN WALL AND STUBBED OUT OF WALL CENTERED AT HEIGHT SHOWN. DO NOT STUB OUT OF FLOOR AND RUN EXPOSED UP FACE OF WALL.

E. PLUMBING CONTRACTOR SHALL RUN CONDENSATE LINES FROM UNITS TO DRAINS AS SHOWN, THIS LINE SHALL BE NO SMALLER THAN THE STUB OUT OF THE FIXTURE. CONDENSATE DRAIN LINES ARE TO BE INSULATED THEIR ENTIRE LENGTH. FOR SPECIFIC TYPE OF CONNECTION AND LOCATIONS REFER TO THE KITCHEN EQUIPMENT BROCHURES AND DRAWINGS.

F. ALL LABOR, VALVES, TRAPS, TAILPIECES, STRAINERS, WATER LINES, GAS LINES, CUT OFFS, TRAPS, HYDROSTATIC SHOCK ELIMINATORS, INDIVIDUAL SHUT OFF-VALVES, PRESSURE - REDUCING VALVES & FITTINGS REQUIRED FOR FINAL CONNECTIONS OF EQUIPMENT AS NECESSARY TO COMPLY WITH ALL CODES, INCLUDING ALL INTERCONNECTIONS, SHALL BE FURNISHED & INSTALLED BY PLUMBING CONTRACTOR UNLESS STATED OTHERWISE IN FOOD SERVICE EQUIPMENT CONTRACT OR GENERAL SPECIFICATIONS.

G. ALL GAS LINES TO BE PAINTED BLACK.

H. ALL FLOOR DRAINS ARE TO BE SET 1/2" BELOW FINISHED FLOOR UNLESS OTHERWISE NOTED. DO NOT SLOPE FLOORS SO CLOSE TO DRAINS AS TO CREATE "PITS" OR "DIPS" IN FLOOR. MINIMUM RADIUS OF SLOPE TO BE 24" FROM CENTERLINE OF DRAIN.

I. ALL FLOOR SINKS SHOWN ARE TO BE SET FLUSH WITH FINISHED FLOOR, TRAPPED WITH LEGAL AIR GAP.

J. IF ELECTROLYSIS CONDITIONS EXIST, A DIELECTRIC COUPLING SHOULD BE USED IN FINAL PLUMBING CONNECTION TO ALL WATER COOLED EQUIPMENT.

K. KITCHEN EQUIPMENT SUPPLIER TO PROVIDE ALL FAUCETS, DRAIN OUTLET FITTINGS IN FIXTURES AND SPECIALITY ITEMS AS OUTLINED IN THE ITEM AND GENERAL PRODUCT SPECIFICATIONS.

L. ALL WORK RELATING TO THE INSTALLATION & HOOKUP OF THE SPECIFIED EQUIPMENT IS TO BE PERFORMED IN FULL ACCORDANCE WITH ALL AUTHORITY HAVING JURISDICTION.

M. WALL PENETRATIONS FOR DRAIN LINES REQUIRE ESCUTCHEON PLATES.

N. ALL SERVICES SHOWN WITH SYMBOLS AWAY FROM ANY WALL OR COLUMN SHOULD BE STUBBED OUT OF FLOOR OR CEILING TO MAXIMUM OVERALL HEIGHT AS SHOWN.

O. PLUMBING CONTRACTOR SHALL PROVIDE & INSTALL ALL ROUGH-INS, FINAL CONNECTIONS FOR KITCHEN EQUIPMENT FURNISHED BY OTHERS OR THE CONTRACTOR.

P. PLUMBING CONTRACTOR TO PROVIDE & INSTALL ALL NECESSARY BACKFLOW PREVENTION DEVICES.

PLUMBING LEGEND

○	DIRECT WASTE
▨	FLOOR DRAIN W/ 48" DIAMETER DEPRESSION THAT SLOPES 1/4" PER FOOT (PER DEH).
FD	FLOOR SINK (12"X12")
○—CW—	COLD WATER (C.W.)
●—HW—	HOT WATER (H.W.)
▬ ▬ ▬	INDIRECT DRAIN LINE AS REQUIRED
+12"	A.F.F. - ABOVE FINISHED FLOOR TO CENTER OF ROUGH-IN
P.C.	PLUMBING CONTRACTOR

WATER HEATER CALCULATIONS

PER HEALTH DEPARTMENT

1	MOP SINK	15 GPH
1	3-COMP. POT SINK	42 GPH
1	HAND SINK	5 GPH
1	FOOD PREP. SINK	5 GPH
1	LAVATORY SINK	5 GPH
	TOTAL	72 GPH

$$\frac{72 \times 50 \times 8.33}{.98 \times 3412} = 8.968 \text{ KW}$$

WATER HEATER SPECIFICATION

MANUFACTURE: A.O. SMITH
MODEL: DSE-65A-30
TANK SIZE: 65 GALLON
MAX KW INPUT: 30
RISE @ 50°F: 246 GPH

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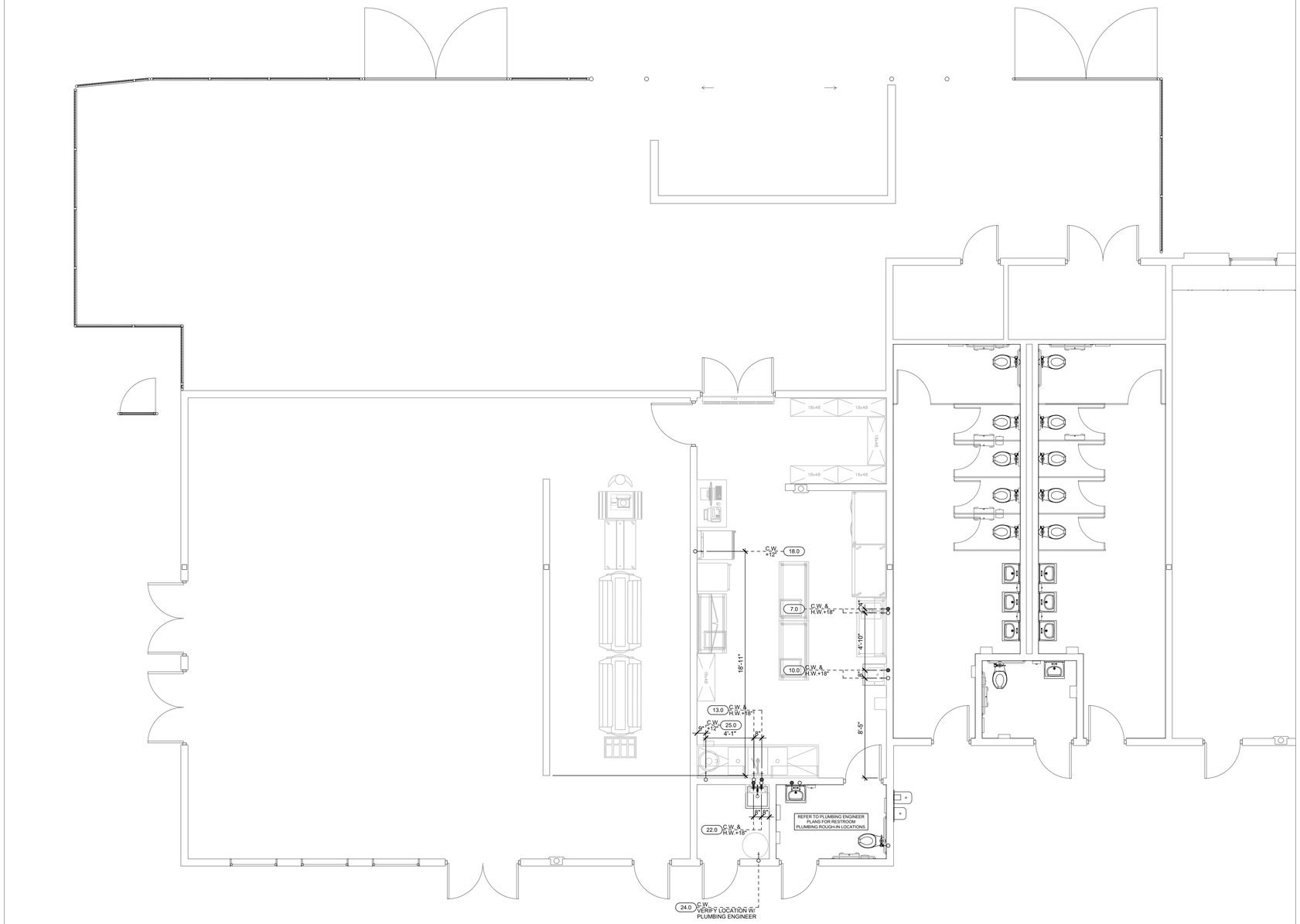
FOODSERVICE EQUIPMENT UNDER SLAB PLUMBING ROUGH-IN PLAN

K-400



FOOD SERVICE EQUIPMENT ABOVE SLAB PLUMBING ROUGH-IN PLAN
SCALE: 1/4" = 1'-0"

GENERAL PLUMBING NOTES

A. PLUMBING CONTRACTOR MUST VERIFY EQUIPMENT BEING USED SO THAT THE SERVICE REQUIREMENTS ARE ADEQUATELY SIZED AND ROUGHED-IN PROPERLY (LOCATION & HEIGHT), SO AS TO MINIMIZE THE AMOUNT OF MATERIALS AND FITTINGS NEEDED FOR FINAL HOOKUP RESULTING IN A NEAT & ORDERLY LOOKING JOB. ALL DIMENSIONS FOR ITEMS RUNNING UNDER SLAB ARE FROM CENTER LINE OF COLUMN TO CENTER OF ROUGH-IN'S. ALL OTHER DIMENSIONS ARE FROM FACE OF STUD.

B. ALL PLUMBING ROUGH-INS AND REQUIREMENTS SHOWN ON THIS SHEET ARE FOR FIXTURES AND EQUIPMENT FURNISHED BY THE KITCHEN EQUIPMENT SUPPLIER, UNLESS OTHERWISE NOTED. FOR ANY ADDITIONAL BUILDING PLUMBING REQUIREMENTS REFER TO ALL OTHER PLUMBING SHEETS.

C. PLUMBING SHALL NOT INTERFERE WITH OPERATION OR FUNCTION OF EQUIPMENT. SECURE TO EQUIPMENT, WALLS OR FLOOR AS REQUIRED BY CODE. ALL ROUGH-INS SHOWN ARE TO BE RUN INSIDE WALLS, (EXCEPT STUB-UPS). LOCATIONS INDICATE POINT OF EXIT FROM WALLS, CEILING OR FLOOR. ALL FLOOR & WALL PENETRATIONS MUST BE SEALED WATER TIGHT AND VERMIN PROOF.

D. ALL SERVICES SHOWN WITH SYMBOLS CENTERED ON FACE OF STUD WALL SHOULD BROUGHT TO THAT POINT CONCEALED IN WALL AND STUBBED OUT OF WALL CENTERED AT HEIGHT SHOWN . DO NOT STUB OUT OF FLOOR AND RUN EXPOSED UP FACE OF WALL.

E. PLUMBING CONTRACTOR SHALL RUN CONDENSATE LINES FROM UNITS TO DRAINS AS SHOWN, THIS LINE SHALL BE NO SMALLER THAN THE STUB OUT OF THE FIXTURE. CONDENSATE DRAIN LINES ARE TO BE INSULATED THEIR ENTIRE LENGTH. FOR SPECIFIC TYPE OF CONNECTION AND LOCATIONS REFER TO THE KITCHEN EQUIPMENT BROCHURES AND DRAWINGS.

F. ALL LABOR, VALVES, TRAPS, TAILPIECES, STRAINERS, WATER LINES, GAS LINES, CUT OFFS, TRAPS, HYDROSTATIC SHOCK ELIMINATORS, INDIVIDUAL SHUT OFF-VALVES, PRESSURE - REDUCING VALVES & FITTINGS REQUIRED FOR FINAL CONNECTIONS OF EQUIPMENT AS NECESSARY TO COMPLY WITH ALL CODES, INCLUDING ALL INTERCONNECTIONS, SHALL BE FURNISHED & INSTALLED BY PLUMBING CONTRACTOR UNLESS STATED OTHERWISE IN FOOD SERVICE EQUIPMENT CONTRACT OR GENERAL SPECIFICATIONS.

G. ALL GAS LINES TO BE PAINTED BLACK.

H. ALL FLOOR DRAINS ARE TO BE SET 1/2" BELOW FINISHED FLOOR UNLESS OTHERWISE NOTED, DO NOT SLOPE FLOORS SO CLOSE TO DRAINS AS TO CREATE "PITS" OR "DIPS" IN FLOOR. MINIMUM RADIUS OF SLOPE TO BE 24" FROM CENTERLINE OF DRAIN.

I. ALL FLOOR SINKS SHOWN ARE TO BE SET FLUSH WITH FINISHED FLOOR, TRAPPED WITH LEGAL AIR GAP.

J. IF ELECTROLYSIS CONDITIONS EXIST, A DIELECTRIC COUPLING SHOULD BE USED IN FINAL PLUMBING CONNECTION TO ALL WATER COOLED EQUIPMENT.

K. KITCHEN EQUIPMENT SUPPLIER TO PROVIDE ALL FAUCETS, DRAIN OUTLET FITTINGS IN FIXTURES AND SPECIALITY ITEMS AS OUTLINED IN THE ITEM AND GENERAL PRODUCT SPECIFICATIONS.

L. ALL WORK RELATING TO THE INSTALLATION & HOOKUP OF THE SPECIFIED EQUIPMENT IS TO BE PERFORMED IN FULL ACCORDANCE WITH ALL AUTHORITY HAVING JURISDICTION.

M. WALL PENETRATIONS FOR DRAIN LINES REQUIRE ESCUTCHEON PLATES.

N. ALL SERVICES SHOWN WITH SYMBOLS AWAY FROM ANY WALL OR COLUMN SHOULD BE STUBBED OUT OF FLOOR OR CEILING TO MAXIMUM OVERALL HEIGHT AS SHOWN.

O. PLUMBING CONTRACTOR SHALL PROVIDE & INSTALL ALL ROUGH-INS, FINAL CONNECTIONS FOR KITCHEN EQUIPMENT FURNISHED BY OTHERS OR THE CONTRACTOR.

P. PLUMBING CONTRACTOR TO PROVIDE & INSTALL ALL NECESSARY BACKFLOW PREVENTION DEVICES.

PLUMBING LEGEND

○	DIRECT WASTE
▨	FLOOR DRAIN W/ 48" DIAMETER DEPRESSION THAT SLOPES 1/4" PER FOOT (PER DEH).
FS	FLOOR SINK (12"X12")
○—·—	COLD WATER (C.W.)
●—·—	HOT WATER (H.W.)
▬ ▬ ▬	INDIRECT DRAIN LINE AS REQUIRED
+12"	A.F.F. - ABOVE FINISHED FLOOR TO CENTER OF ROUGH-IN
P.C.	PLUMBING CONTRACTOR

WATER HEATER CALCULATIONS

PER HEALTH DEPARTMENT

1	MOP SINK	15 GPH
1	3-COMP. POT SINK	42 GPH
1	HAND SINK	5 GPH
1	FOOD PREP. SINK	5 GPH
1	LAVATORY SINK	5 GPH
	TOTAL	72 GPH

$$\frac{72 \times 50 \times 8.33}{.98 \times 3412} = 8.968 \text{ KW}$$

WATER HEATER SPECIFICATION

MANUFACTURE: A.O. SMITH
MODEL: DSE-65A-30
TANK SIZE: 65 GALLON
MAX KW INPUT: 30
RISE @ 50°F: 246 GPH

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No. C-34108
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5801 SUNDALE AVE.
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CENTRAL VALLEY CONTINUATION HIGH SCHOOL CAMPUS
526 MANNEL AVENUE
SHAFTER, CA 93263

DRAWING SUBMITTAL SCHEDULE

	100% DD SET	07/08/2025
	50% CONSTRUCTION DOCUMENTS	10/10/2025
	100% CONSTRUCTION DOCUMENTS	11/21/2025
	DWG V2	02/27/2026
	DWG V3	04/28/2026

PROJECT NO: 22434-E-01

FOODSERVICE EQUIPMENT ABOVE SLAB PLUMBING ROUGH-IN PLAN

K-410

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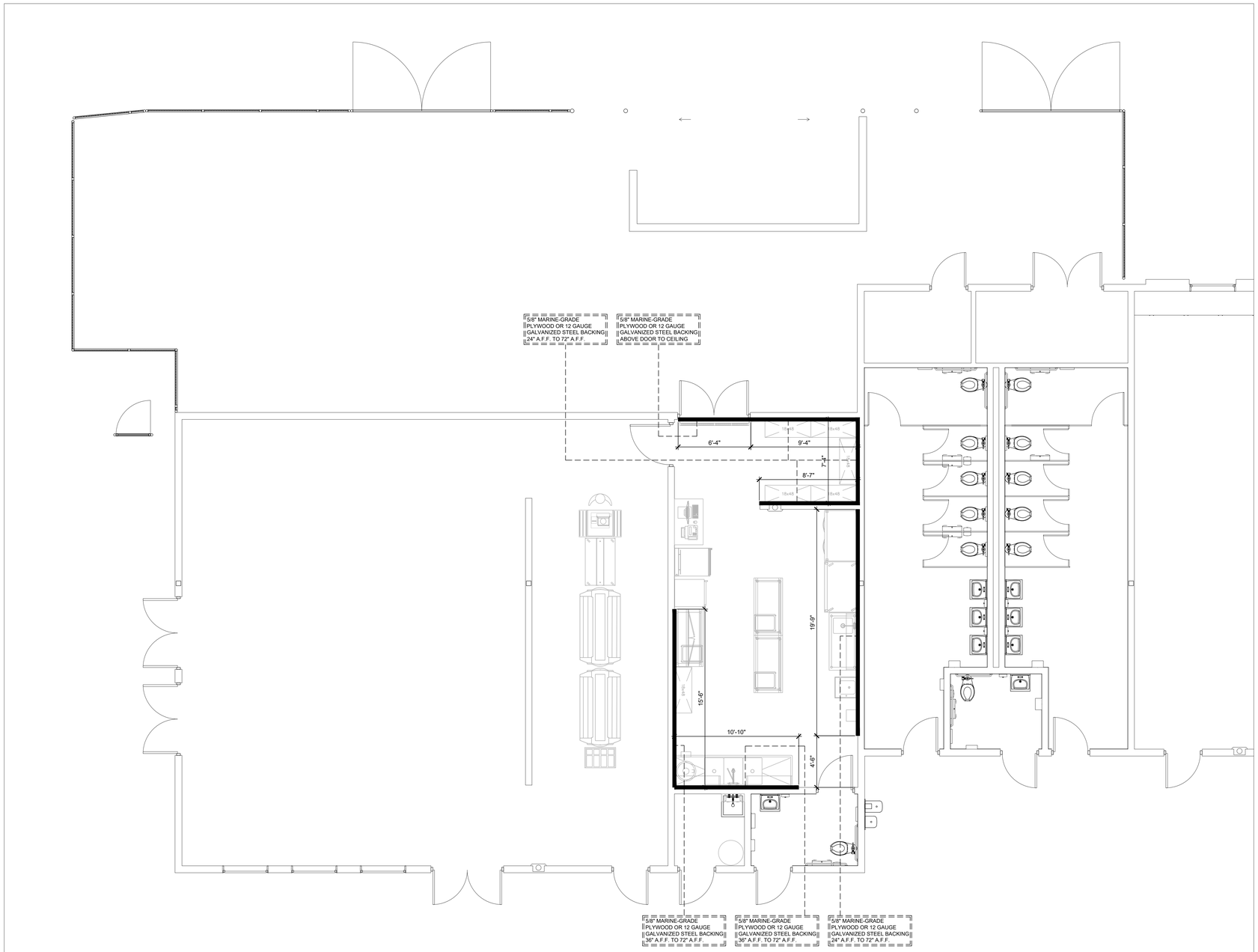

GENERAL WALL BACKING NOTES

A. ALL WALL BACKING SHOWN ON THIS SHEET IS RECOMMENDED FOR FOOD SERVICE EQUIPMENT SUPPLIED BY KITCHEN EQUIPMENT SUPPLIER. GENERAL CONTRACTOR TO COORDINATE AND REFER TO ARCHITECTURAL SHEETS FOR ALL OTHER WALL BACKING NEEDS PRIOR TO INSTALLATION.

B. PLYWOOD OR GALVANIZED STEEL BACKING SHALL BE USED WHERE INDICATED ON PLANS

C. ANY WALL BACKING REMOVED BY PLUMBER, ELECTRICIAN OR ANY OTHER TRADE TO COMPLETE THEIR INSTALLATION MUST BE REPLACED BY THAT TRADE. IF WALL BACKING CAN NOT BE REPLACED THE GENERAL CONTRACTOR, FOOD SERVICE EQUIPMENT SUPPLIER & OWNER MUST BE NOTIFIED.

D. 5/8" MARINE-GRADE PLYWOOD OR 12 GAUGE GALVANIZED STEEL BACKING SHALL EITHER BE BETWEEN STUDS, OR IN LIEU OF 5/8" GYPSUM BOARD WHERE COMPLETELY CONCEALED BY FRP OR STAINLESS STEEL SHEET.

WALL BACKING LEGEND	
▬	WALL BACKING
+12"	A.F.F. - ABOVE FINISHED FLOOR
G.C.	GENERAL CONTRACTOR

FOOD SERVICE EQUIPMENT WALL BACKING ROUGH-IN PLAN
SCALE: 1/4" = 1'-0"

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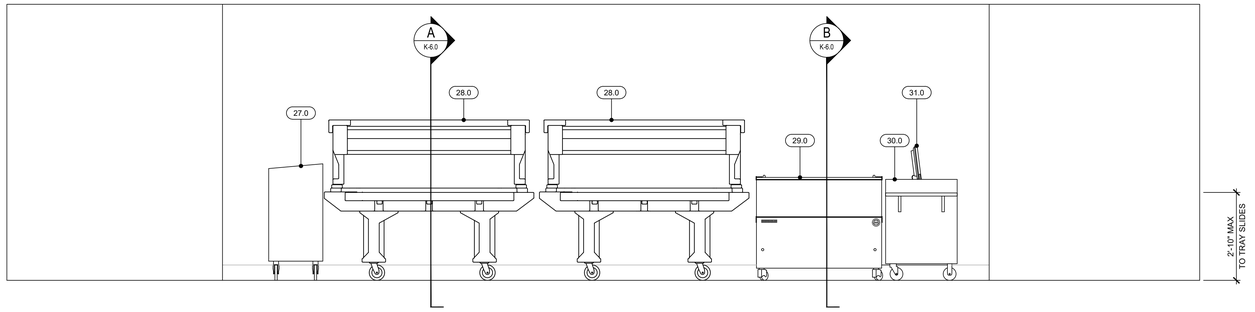
	DWG V2	02/27/2026
	DWG V3	04/28/2026

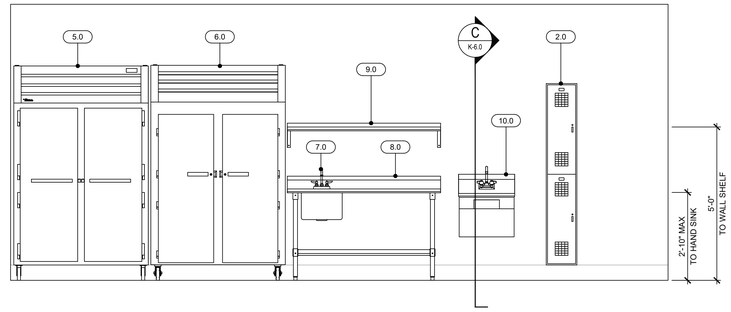
PROJECT NO: 22434-E-01

FOODSERVICE EQUIPMENT WALL BACKING ROUGH-IN PLAN

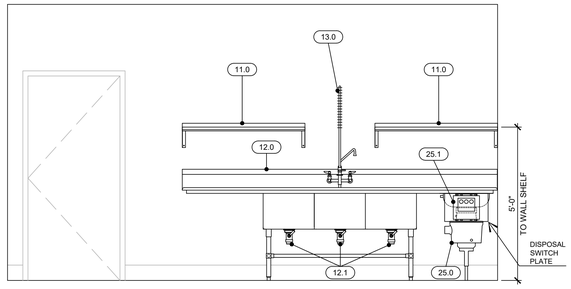
K-500



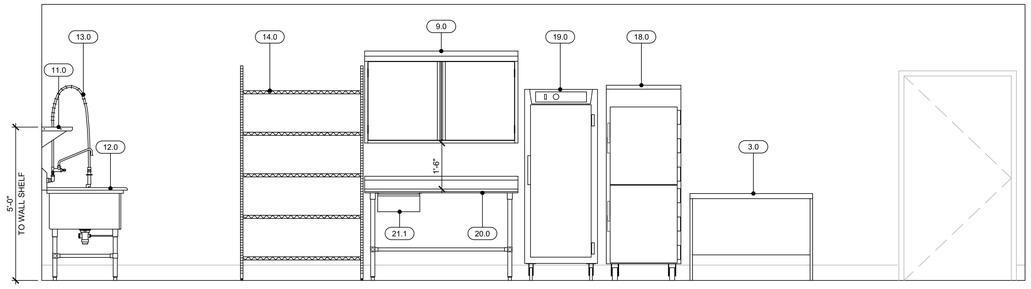
1 SERVING LINE
SCALE | 1/2" = 1'-0"



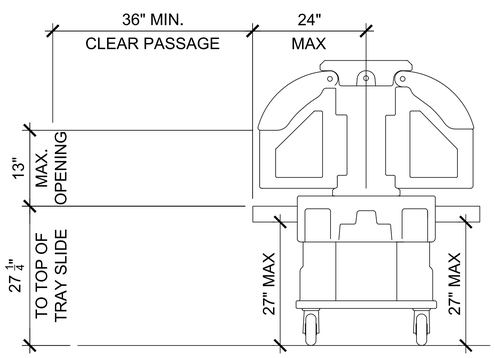
2 KITCHEN
SCALE | 1/2" = 1'-0"



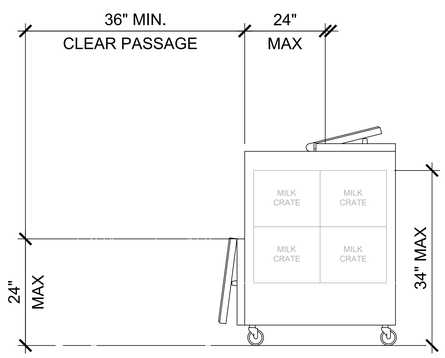
3 KITCHEN - 3 COMP SINK
SCALE | 1/2" = 1'-0"



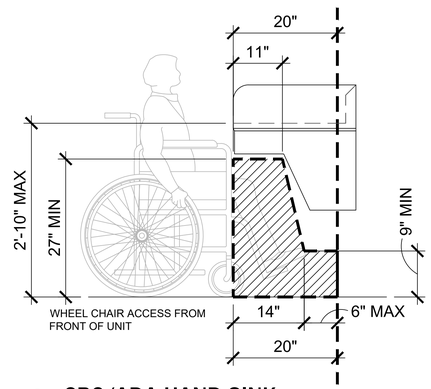
4 KITCHEN - REFRGERATION AND PREP SINK
SCALE | 1/2" = 1'-0"



A FOOD STATION
SCALE | 1" = 1'-0"



B MILK COOLER
SCALE | 1" = 1'-0"



C CBC/ADA HAND SINK
SCALE | 1" = 1'-0"

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DWG V3	04/28/2026

PROJECT NO: 22434-E-01

FOODSERVICE EQUIPMENT ELEVATIONS AND SECTIONS

K-600

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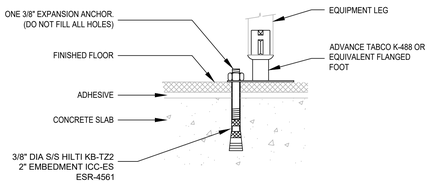
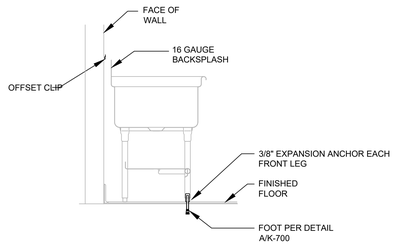
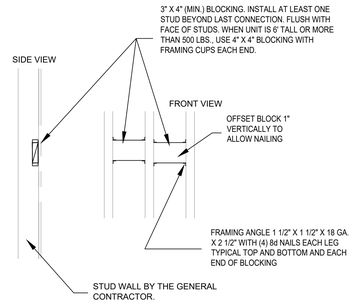


A | EQUIPMENT FOOT DETAIL



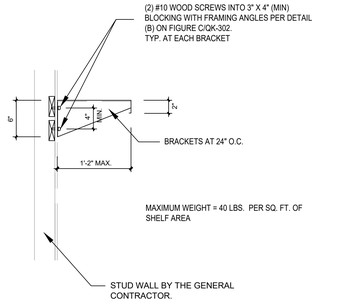
NOTE: THE DETAILS SHOWN OF JOINTS AND SEAMS ARE GRAPHIC REPRESENTATIONS ONLY AND ARE NOT INTENDED TO INDICATE SPACING BETWEEN THE METAL ELEMENTS.

B | WALL ATTACHED SINK / TABLE DETAIL



CONNECTIONS TO WOOD STUD WALL

C | WALL BACKING



CONNECTIONS TO WOOD STUD WALL

D | WALL SHELF ATTACHMENT

CONNECTIONS TO WOOD STUD WALL

D | WALL SHELF ATTACHMENT

NOTE: INSTALL CHANNEL AT 2/3H ABOVE FINISH FLOOR.
H = RACK HEIGHT

(A) CONNECTIONS TO STUD WALL

E | STORAGE SHELVING WALL ANCHORAGE SEISMIC DETAIL

F | MOBILE FOOD WARMING CABINET AND RETHERMALIZER - NOT HARD WIRED OR HARD PLUMBED

G | AIR CURTAIN DETAIL

H | REACH-IN REFRIGERATOR AND FREEZER ANCHORAGE

I | LOCKER ANCHORAGE

J | RETHERMALIZER / HOLDING CABINET ANCHORAGE

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DWG V3	04/28/2026

PROJECT NO: 22434-E-01

FOODSERVICE EQUIPMENT ANCHORAGE DETAILS

K-700

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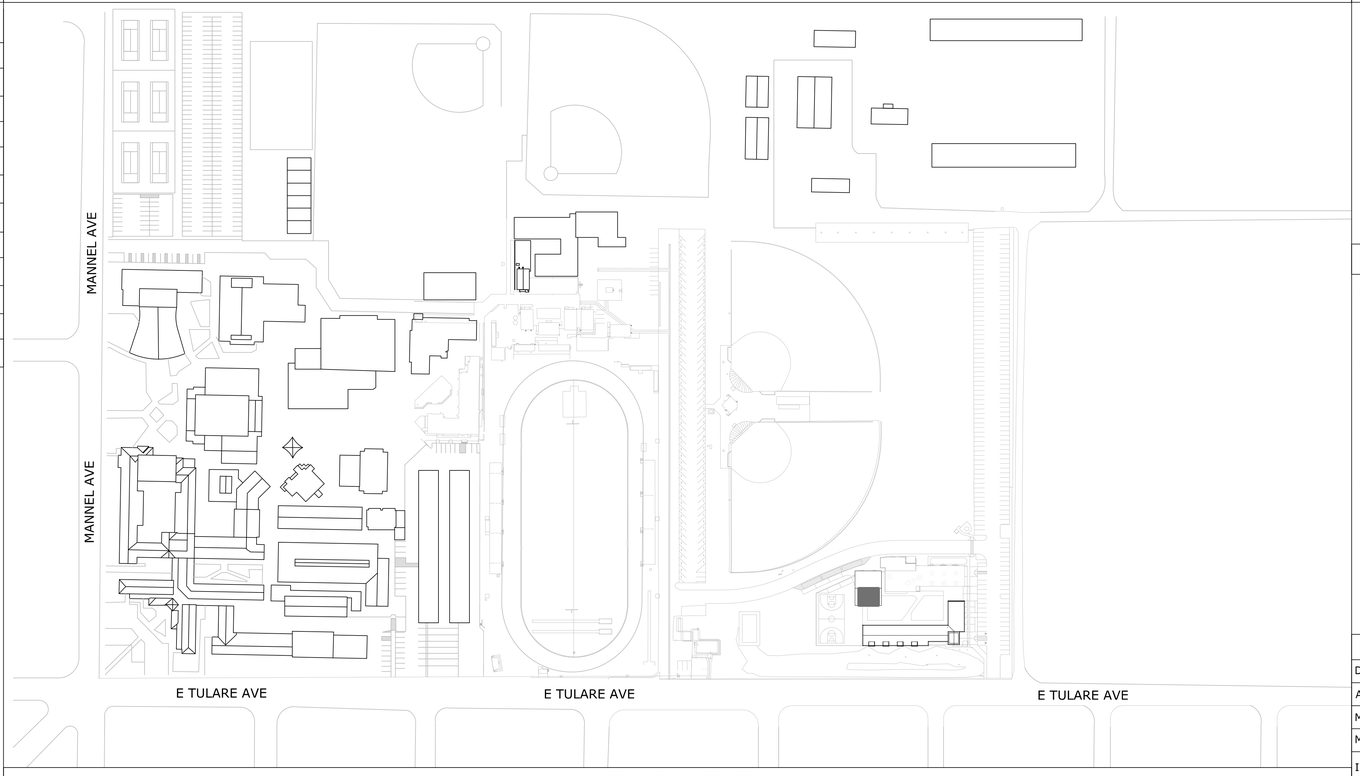
CENTRAL VALLEY CONTINUATION HIGH SCHOOL
26.00 kWp (DC) PHOTOVOLTAIC PV SYSTEM
526 MANNEL AVE, SHAFTER, CA 93263

SHEET CATALOG

SHEET #	DESCRIPTION
PV-001	COVER SHEET
PV-002	GENERAL NOTES
PV-101	SITE PLAN
PV-201	ROOF PLAN
PV-202	STRING PLAN
PV-301	ELECTRICAL MOUNTING DETAILS
PV-302	LINE DIAGRAM
PV-401	ELECTRICAL CALCULATIONS
PV-501	STRUCTURAL DETAIL & ARRAY PLAN
PV-601	ELECTRICAL PLACARDS & SPEC SHEETS
PV-602	SPEC SHEETS
PV-603	SPEC SHEETS

LOCATION MAP



LOCATION INFORMATION

SITE COORDINATES	:	35.507498, -119.263911
ADDRESS	:	526 MANNEL AVE
CITY / VILLAGE	:	SHAFTER
STATE	:	CA
ZIP	:	93263
COUNTY	:	KERN COUNTY
PERMITTING AUTHORITY	:	CA - CITY OF SHAFTER
INTERCONNECTING UTILITY	:	PG&E
TEMPERATURE MINIMUM	:	-1.6
TEMPERATURE MAXIMUM	:	39.6

APPLICABLE CODES AND COMPLIANCE

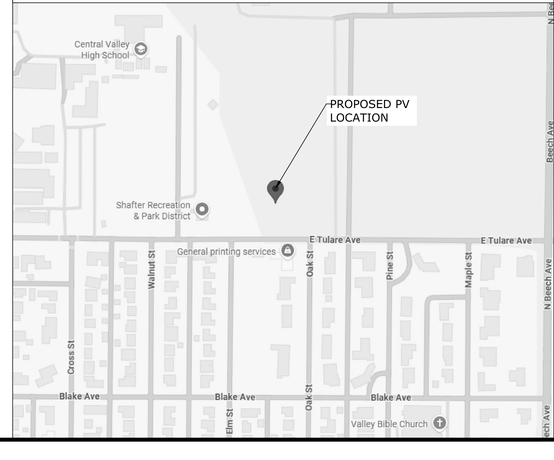
NFPA 70E - STANDARD FOR ELECTRICAL SAFETY IN THE WORKFORCE
UL 61215 & UL 61730 - SOLAR MODULES
UL 1741 - INVERTERS
UL 2703 - MOUNTING SYSTEMS AND CLAMPING DEVICES FOR PV MODULES

2022 CALIFORNIA ELECTRICAL CODE
2022 CALIFORNIA BUILDING CODE
2022 CALIFORNIA FIRE CODE SECTION 1205
ADDITIONALLY, CONFORM TO ALL LOCAL ORDINANCES AND REQUIREMENTS

PROJECT SUMMARY INFORMATION

DC kWp	26.00
AC kW	25.00
MODULE MFG. & MODEL	JA SOLAR JAM72D42-650/LB (650Wp)
MODULE QTY	40
INVERTER MFG. & MODEL	CHINT CPS SCA25KTL-DO-R/US-480 (277/480V, 3PH)
INVERTER QTY	1
RSD	AP SYSTEMS RSD-D-20
RSD QTY	20
DC:AC RATIO	1.04
STRINGS	4
MODULES PER STRING	10
RACKING MFG. & MODEL	IRONRIDGE XR100 WITH CORRUSLIDE METAL CLAMP
MODULE TILT	10°
AZIMUTH	180°
INTER-ROW SPACING	1"
WIND SPEED	100 MPH
SNOW LOAD	0 PSF

VICINITY MAP



GENERAL NOTES

1. THESE NOTES SET MINIMUM STANDARDS FOR CONSTRUCTION. THE DRAWINGS GOVERN OVER THESE NOTES TO THE EXTENT SHOWN.
2. ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING: LOCAL BUILDING CODE, LOCAL ELECTRICAL CODE, ANY OTHER REGULATING AGENCIES THAT HAVE AUTHORITY OVER ANY PORTION OF THE WORK AND THOSE CODES AND STANDARDS LISTED IN THESE DRAWINGS AND IN THE AGREEMENT.
3. ALL MATERIAL AND EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND THE CEC.
4. ALL ELECTRICAL WORK AND INSTALLATION TO BE COMPLETED BY A QUALIFIED PERSONNEL, ADJUSTED, ALIGNED AND TESTED BY THE CONTRACTOR AS REQUIRED TO PRODUCE THE INTENDED PERFORMANCE.
5. BEFORE THE COMMENCEMENT OF ANY WORK, EACH TRADE SHALL VERIFY EXISTING CONDITIONS OF ANY DISCREPANCIES TO THAT WHICH IS SHOWN IN THESE DRAWINGS, INCLUDING BUT NOT LIMITED TO DIMENSIONS OF THE WORK AREA, STRUCTURE, EXISTING ELECTRICAL SERVICE, CONDUITS PATHS, OBSTRUCTIONS, ACCESSIBILITY ISSUES, AND WORKING CLEARANCES.
6. UNLESS INDICATED AS EXISTING (E), ALL PROPOSED MATERIALS AND EQUIPMENT ARE NEW.
7. ALL EQUIPMENT SHALL BE MOUNTED AS SHOWN. WHERE DETAILS ARE NOT PROVIDED, THE SUBCONTRACTOR SHALL USE DILIGENT EFFORTS TO MOUNT EQUIPMENT SUCH THAT IT WILL BE CLEAN, LEVEL AND SOLID.
8. ALL SURFACES SHALL BE PATCHED AND PAINTED AROUND NEW DEVICES AND EQUIPMENT TO MATCH EXISTING FINISHES.
9. UPON COMPLETION OF WORK, THE CONTRACTORS SHALL THOROUGHLY CLEAN ALL EXPOSED EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. REMOVE ALL LABELS AND ANY DEBRIS, CRATING OR CARTONS AND LEAVE THE INSTALLATION FINISHED AND READY FOR OPERATION.
10. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ITEMS WITH THE OWNER OR GENERAL CONTRACTOR FURNISHED EQUIPMENT DELIVERY SCHEDULE TO PREVENT UNNECESSARY DELAYS IN THE TOTAL WORK.
11. DUE TO DYNAMIC NATURE OF SOLAR INDUSTRY, IN THE EVENT CONTRACTOR IS UNABLE TO PROCURE THE SPECIFIED PV MODULE, AS INDICATED IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AN EQUIVALENT SUBSTITUTION THAT MEETS OR EXCEEDS THE POWER OUTPUT, EFFICIENCY RATING, DESIGN, AND QUALITY STANDARDS OF THE ORIGINALLY SPECIFIED PRODUCT. THE CONTRACTOR SHALL SUBMIT THE PROPOSED SUBSTITUTION FOR REVIEW AND APPROVAL BY THE ENGINEER AND/OR ARCHITECT, PROVIDING ALL NECESSARY DOCUMENTATION, INCLUDING BUT NOT LIMITED TO TECHNICAL SPECIFICATIONS, PERFORMANCE DATA, AND CERTIFICATION OF COMPLIANCE WITH APPLICABLE CODES AND STANDARDS. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR REDESIGNING PV LAYOUT AND PERFORMING STRUCTURAL DESIGN REVISIONS AND UPDATED CALCULATIONS AS REQUIRED TO ACCOMMODATE SUBSTITUTED PV MODULE. THE SUBSTITUTION SHALL BE SUBJECT TO APPROVAL BY THE OWNER'S REPRESENTATIVE, AND ANY DELAY OR ADDITIONAL COST INCURRED DUE TO THE NEED FOR SUBSTITUTION SHALL BE BORNE SOLELY BY THE CONTRACTOR. FAILURE TO COMPLY WITH THE TERMS OF THIS PROVISION MAY RESULT IN THE REJECTION OF THE SUBSTITUTION AND/OR FURTHER CONTRACTUAL ACTIONS AS DEEMED NECESSARY BY THE OWNER

ENGINEERING SCOPE OF WORK

1. ILLUMINE INTERNATIONAL INC. HAS ONLY PROVIDED DRAFTING SERVICES FOR THE PERMIT DRAWINGS. NO ACTUAL ENGINEERING WORK, ENGINEERING REVIEW OR ENGINEERING APPROVAL HAS BEEN CONDUCTED BY ILLUMINE INTERNATIONAL INC UNLESS NOTED OTHERWISE.
2. WHEN A PROFESSIONAL ENGINEER APPROVES AND SEALS THE DESIGN FOR COMPONENTS OF THEIR RESPECTIVE DISCIPLINE (ELECTRICAL) SHOWN ON THESE PERMIT DRAWINGS, HE/SHE:
   a. TAKES FULL DIRECT CONTROL OF THE ENGINEERED DESIGN.
   b. IS GIVEN ACCESS TO PERSONALLY SUPERVISE AND RECTIFY ANY ASPECT OF THE ENGINEERED DESIGN.
   c. HAS FULLY ACCEPTED RESPONSIBILITY FOR THE ENGINEERED DESIGN.

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p 916-771-0778
www.lpengineers.com
Job #: 24-2161

REGISTERED PROFESSIONAL ENGINEER
RAMI S. ZEIDAN
No. E 16762
Exp. 9/30/26
ELECTRICAL
STATE OF CALIFORNIA

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100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO: 22434-E-02

COVER SHEET

PV-001

Autodesk Docs://KHSD_Central Valley Continuation HS/24-2161 Central Valley CVS_MEP_CP_V_R23.rvt
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GENERAL NOTES:

1. EXISTING PLUMBING VENTS, SKYLIGHTS, EXHAUST OUTLETS, VENTILATION INTAKE AIR OPENINGS SHALL NOT BE COVERED BY THE SOLAR PHOTOVOLTAIC SYSTEM.
2. INVERTERS, MOTOR GENERATORS, PV MODULES, AC MODULES AND AC MODULE SYSTEMS, DC COMBINERS, DC-TO-DC CONVERTERS, RAPID SHUTDOWN EQUIPMENT, DC CIRCUIT CONTROLLERS, AND CHARGE CONTROLLERS INTENDED FOR USE IN PV SYSTEMS SHALL BE LISTED OR BE EVALUATED FOR THE APPLICATION AND HAVE A FIELD LABEL APPLIED. [CEC 690.4(B)]
3. ALL OUTDOOR EQUIPMENT SHALL BE NEMA 3R RATED, INCLUDING ALL ROOF MOUNTED TRANSITION BOXES AND SWITCHES.
4. ALL EQUIPMENT SHALL BE PROPERLY GROUNDED AND BONDED IN ACCORDANCE WITH CEC ARTICLE 250.
5. PV SYSTEM DC CIRCUIT AND INVERTER OUTPUT CONDUCTORS AND EQUIPMENT SHALL BE PROTECTED AGAINST OVERCURRENT. [CEC 690.9(A)]
6. ALL PHOTOVOLTAIC (PV) MODULES SHALL BE MOUNTED ON THE ROOF, CARPORT, ETC.
7. THE UTILITY INTERACTIVE INVERTERS SHALL TRIP OR SHALL BE PERMITTED TO AUTOMATICALLY DISCONNECTED FROM ALL UNGROUNDED CONDUCTORS OF THE PRIMARY SOURCE WHEN ONE OR MORE OF THE PHASES OF THE PRIMARY SOURCE TO WHICH IT IS CONNECTED OPENS. THE INTERACTIVE ELECTRIC POWER PRODUCTION EQUIPMENT SHALL NOT BE RECONNECTED TO THE PRIMARY SOURCE UNTIL ALL THE PHASES OF THE PRIMARY SOURCE TO WHICH IT IS CONNECTED ARE RESTORED. [CEC 705.40]
8. EQUIPMENT DISCONNECTING MEANS SHALL HAVE RATINGS SUFFICIENT FOR THE MAXIMUM CIRCUIT CURRENT, VOLTAGE, AND AVAILABLE FAULT CURRENT. THE DISCONNECTING MEANS SHALL SIMULTANEOUSLY DISCONNECT ALL CURRENT-CARRYING CONDUCTORS THAT ARE NOT SOLIDLY GROUNDED TO WHICH IT IS CONNECTED AND SHALL BE OPERABLE WITHOUT EXPOSING THE OPERATOR TO ANY ENERGIZED PARTS OF THE DISCONNECT. [CEC 690.15(C)]
9. ALL CONDUCTORS EXPOSED TO WEATHER SHALL BE LISTED AND IDENTIFIED FOR USE IN DIRECT SUNLIGHT. [CEC 310.10(D)]
10. THE MODULE CONDUCTORS MUST BE TYPE USE-2 OR LISTED FOR PHOTOVOLTAIC (PV) WIRE. [CEC 690.31(C)(1)]
11. PV SYSTEM DC CIRCUIT CONDUCTORS SHALL BE IDENTIFIED AT ALL TERMINATIONS, CONNECTIONS, AND SPLICE POINTS BY COLOR CODING, MARKING TAPE, TAGGING, OR OTHER APPROVED MEANS. [CEC 690.31(B)(1)]
12. ALL GROUNDED CONDUCTORS SHALL BE PROPERLY COLOR IDENTIFIED AS WHITE OR GRAY. [CEC 200.6]
13. PV SYSTEM CONNECTED ON THE LOAD SIDE OR SOURCE SIDE OF THE SERVICE DISCONNECTING MEANS OF THE OTHER SOURCE(S) AT ANY DISTRIBUTION EQUIPMENT ON THE PREMISES SHALL BE IN ACCORDANCE WITH CEC 705.11 (SUPPLY SIDE) & 705.12 (LOAD SIDE).
14. EACH SOURCE CONNECTION SHALL BE MADE AT A DEDICATED CIRCUIT BREAKER OR FUSIBLE DISCONNECTING MEANS. [CEC 705.12(A)]
15. THE SUM OF THE AMPERE RATING OF THE OVERCURRENT DEVICES IN CIRCUITS SUPPLYING POWER TO THE BUSBAR OR CONDUCTOR SHALL NOT EXCEED 120% OF THE RATING OF THE BUSBAR OR CONDUCTOR, AND THE INTERCONNECTION POINT SHALL BE LOCATED AT THE OPPOSITE END OF THE BUSBAR AS THE PRIMARY POWER SOURCE. [CEC 705.12(B)(3)(2)]
16. THE INTERCONNECTION POINT OF PRODUCTION EQUIPMENT SHALL BE CONNECTED TO THE SUPPLY SIDE OF THE GROUND-FAULT PROTECTION EQUIPMENT INSTALLED IN AC CIRCUITS AS REQUIRED ELSEWHERE IN THIS CODE, BUT SHALL BE PERMITTED TO BE MADE TO THE LOAD SIDE OF THE GROUND-FAULT PROTECTED EQUIPMENT PROVIDED THERE IS GROUND-FAULT PROTECTION FOR EQUIPMENT FROM ALL GROUND-FAULT CURRENT SOURCES. [CEC 705.32]
17. EQUIPMENT CONTAINING OVERCURRENT DEVICES IN CIRCUITS SUPPLYING POWER TO A BUS BAR OR CONDUCTOR SHALL BE MARKED TO INDICATE THE PRESENCE OF ALL SOURCES. [CEC 705.12(C)]
18. FUSED DISCONNECTS, UNLESS OTHERWISE MARKED, SHALL BE CONSIDERED SUITABLE FOR BACKFEED. CIRCUIT BREAKERS NOT MARKED "LINE" AND "LOAD" SHALL BE CONSIDERED SUITABLE FOR BACKFEED. CIRCUIT BREAKERS MARKED "LINE" AND "LOAD" SHALL BE CONSIDERED SUITABLE FOR BACKFEED OR REVERSE CURRENT IF SPECIFICALLY RATED. [CEC 705.12(D)]
19. ALL THE CEC REQUIRED WARNING SIGNS, MARKINGS, AND LABELS SHALL BE POSTED ON EQUIPMENT AND DISCONNECTS PRIOR TO ANY INSPECTIONS TO BE PERFORMED BY THE BUILDING DEPARTMENT INSPECTOR.
20. METAL RACEWAYS, TYPE MC METAL-CLAD CABLE THAT COMPLIES WITH CEC 250.118(10) OR METALLIC ENCLOSURES ARE REQUIRED AS A WIRING METHOD FOR INSIDE THE BUILDING FOR PV SYSTEM DC CIRCUITS THAT EXCEED 30 VOLTS OR 8 AMPERES. [CEC 690.31(D)]
21. FLEXIBLE, FINE-STRANDED CABLES SHALL BE TERMINATED ONLY WITH TERMINALS, LUGS, DEVICES OR CONNECTOR IN ACCORDANCE WITH CEC 110.14. [CEC 690.31(C)(5)]
22. CONNECTORS SHALL BE OF LATCHED OR LOCKING TYPE. CONNECTORS THAT ARE READILY ACCESSIBLE AND OPERATING AT OVER 30 VOLTS DC OR 15 VOLTS AC SHALL REQUIRE TOOL TO OPEN AND MARKED "DO NOT DISCONNECT UNDER LOAD" OR "NOT FOR CURRENT INTERRUPTING". [CEC 690.33(C) & (D)(2)]
23. EQUIPMENT GROUNDING CONDUCTOR FOR PV SYSTEMS WITHOUT GROUND FAULT PROTECTION (GFP) AND INSTALLED ON NON-DWELLING UNIT MUST HAVE AMPACITY OF AT LEAST #10 AWG.
24. GROUNDING ELECTRODE CONDUCTOR WILL BE CONTINUOUS. [CEC 250.64(C)]
25. EQUIPMENT PROPOSED TO BE MOUNTED ON EXTERIOR WALLS ARE TO MAINTAIN CLEARANCE TO OPERABLE WINDOWS PER MANUFACTURER'S RECOMMENDATION AND CODE.

EQUIPMENT:

1. EQUIPMENT COMPONENTS SHALL BE LISTED AND LABELED BY A NATIONALLY-RECOGNIZED TESTING LABORATORY(NRTL), SUCH AS UL OR ETL, WHERE SUCH LISTING IS AVAILABLE FOR THE APPLICATION.
2. DANGER, WARNING, AND CAUTION LABELS SHALL BE PROVIDED AS REQUIRED BY NESC, OR OSHA STANDARDS ON EQUIPMENT ENCLOSURES, DOORS, ACCESS PLATES, AND BARRIERS. LABEL ALL MEDIUM VOLTAGE EQUIPMENT WITH THE OPERATING VOLTAGE.
3. ALL OPENINGS INTO EQUIPMENT SHALL BE SEALED WITH GALVANIZED STEEL PLATE OR SCREEN TO PREVENT INSECTS AND RODENTS FROM ENTERING.
4. ALL CONDUCTORS SHALL BE ROUTED TO MAINTAIN ACCESS TO INDICATORS, VALVES, SAMPLE PORTS, SWITCHES, TAP CHANGES, FUSE WELLS, AND OTHER COMPONENTS AND ACCESSORIES REQUIRING OPERATOR ACCESS.
5. INSTALL BOLLARDS AS REQUIRED.

ELECTRICAL NOTES FOR NEW PHOTOVOLTAIC SYSTEM:

1. THIS PROPOSED SOLAR ELECTRIC SYSTEM IS INTENDED TO OPERATE IN PARALLEL WITH POWER RECEIVED FROM THE UTILITY SERVICE PROVIDER.
2. THE INVERTER FOR THE PROPOSED SOLAR ELECTRIC SYSTEM SHALL BE IDENTIFIED FOR USE IN SOLAR PHOTOVOLTAIC SYSTEMS. ALL EQUIPMENT SHALL BE UL APPROVED.
3. THIS SYSTEM IS INTENDED TO CONNECT TO THE EXISTING FACILITY POWER SYSTEM AT A SINGLE POINT, POINT OF COMMON COUPLING (POCC). THIS CONNECTION SHALL BE IN COMPLIANCE WITH THE CEC.
4. ALL SOURCE CIRCUITS SHALL HAVE INDIVIDUAL SOURCE CIRCUIT PROTECTION, AS REQUIRED, FOR TESTING AND ISOLATION.
5. ALL DISCONNECTS AND COMBINERS SHALL BE SECURED FROM UNAUTHORIZED OR UNQUALIFIED PERSONNEL BY LOCK OR LOCATION.
6. ALL DISCONNECTS, COMBINERS, PULL/SPLICE BOXES, AND ENCLOSURES SHALL BE LISTED FOR ITS PURPOSE.
7. EQUIPMENT SHALL BE INSTALLED IN A SECURE AREA. INVERTER PERFORMANCE MAY BE AFFECTED IF INSTALLED IN DIRECT SUNLIGHT.

WIRING AND WIRING METHODS:

1. THE EXPOSED PV SOLAR MODULE WIRING AND PV SOURCE CIRCUITS TO BE UV RESISTANT, RATED FOR WET CONDITIONS, AND USE 2,000V PV WIRE WITH A TEMPERATURE RATING OF 90°C.
2. ALL EXPOSED CABLES, SUCH AS MODULE LEADS, SHALL BE SECURED IN A NEAT WORKMANLIKE MANNER TO PREVENT CHAFFING, SWINGING, AND EXCEEDING MINIMUM BEND RADIUS WITH PROPER MECHANICAL SUNLIGHT-RESISTANT MEANS AND ROUTED TO AVOID DIRECT EXPOSURE TO SUNLIGHT AT ALL TIMES.
3. ALL FIELD WIRING THAT IS NOT COLOR-CODED SHALL BE TAGGED AT BOTH ENDS WITH PERMANENT WIRE MARKERS TO IDENTIFY POLARITY AND GROUND.
4. FLEXIBLE METAL CONDUIT IS SUITABLE FOR INSTALLATION IN DRY LOCATIONS; SHOULD IT BE EMPLOYED, SUPPORTS WILL BE NO MORE THAN 12 INCHES FROM BOXES (JUNCTION BOX, CABINETS, OR CONDUIT FITTING) AND NO MORE THAN 48 INCHES APART.
5. LIQUID-TIGHT FLEXIBLE METAL AND NON-METALLIC CONDUIT IS SUITABLE FOR INSTALLATION IN WET AND DRY LOCATIONS. SHOULD IT BE EMPLOYED, SUPPORTS WILL BE NO MORE THAN 12 INCHES FROM BOXES (JUNCTION BOX, CABINETS, OR CONDUIT FITTING) AND NO MORE THAN 36 INCHES APART.
6. PVC CONDUIT AND FITTINGS SHALL NOT BE USED ON ROOFTOP CONDITIONS OR EXPOSED TO DIRECT SUNLIGHT. WHEN USED IN AN ACCEPTABLE LOCATION, CONDUIT SHALL BE SCHEDULE 80 UV RESISTANT UNLESS NOTED OTHERWISE.
7. FUSES AND WIRES SUBJECT TO TEMPERATURE CONDITIONS GREATER THAN 100°F OR TRANSFORMER INRUSH CURRENT SHALL BE SIZED ACCORDINGLY.
8. THE PHOTOVOLTAIC SOURCE CIRCUITS AND PHOTOVOLTAIC OUTPUT CIRCUITS OF THIS PROPOSED SOLAR SYSTEM SHALL NOT BE CONTAINED IN THE SAME RACEWAY CABLE TRAY, CABLE, OUTLET BOX, OR SIMILAR FITTING AS FEEDERS OR BRANCH CIRCUITS OF OTHER SYSTEMS UNLESS THE CONDUCTORS OF THE DIFFERENT SYSTEMS ARE SEPARATED BY A PARTITION OR ARE CONNECTED TOGETHER.
9. ALL TERMINATIONS SHALL HAVE ANTI-OXIDANT COMPOUND AND BE TORQUED PER DEVICE LISTED OR MANUFACTURER'S RECOMMENDATION.
10. SPLIT BOLTS/SPLICED/CONNECTORS ARE PERMITTED ON THE AC CONDUCTORS AND SHALL BE INSULATED WITH APPROVED MEANS. SPLICES ON DC CONDUCTORS ARE PERMITTED WITH THE APPROPRIATE CONDUCTORS PER THE CEC CODE.
11. NO PVC CONDUIT ALLOWED ON ROOF, UNLESS OPEN-ENDED WIRE MANAGEMENT < 10'.

GROUNDING:

1. EQUIPMENT GROUNDING CONDUCTORS MAY BE COPPER OR ALUMINUM.
2. PARTS OF THE ELECTRICAL INSTALLATION TO BE GROUNDED AND BONDED SHALL INCLUDE, BUT NOT BE LIMITED TO, ELECTRICAL EQUIPMENT, RACEWAYS, BOXES, CABINETS, AND OTHER NON-CURRENT CARRYING METAL PARTS OF THE WIRING SYSTEM, METAL CONDUIT, SWITCHGEAR, HOUSING AND NEUTRALS OF TRANSFORMERS, LIGHTING FIXTURES, AND PANEL DEVICES AS APPLICABLE TO EQUIPMENT INSTALLED ON THIS PROJECT.
3. RACKING COMPONENTS AND STRUCTURAL SUPPORTS MUST BE ELECTRICALLY BONDED TOGETHER BY AN ACCEPTABLE MEANS.
4. MODULES SHALL BE GROUNDED PER MODULE AND RACKING MANUFACTURER'S INSTALLATION GUIDELINES. BARE COPPER USED FOR GROUNDING SHALL NOT TOUCH THE ALUMINUM OF THE MODULE FRAMES.
5. AN EQUIPMENT GROUNDING CONDUCTOR BETWEEN A PV ARRAY AND OTHER EQUIPMENT SHALL BE REQUIRED IN ACCORDANCE WITH CEC ARTICLE 250.

DISCONNECTING MEANS:

1. MEANS SHALL BE PROVIDED TO DISCONNECT ALL CURRENT CARRYING CONDUCTORS OF THE PHOTOVOLTAIC POWER SOURCE FROM ALL OTHER CONDUCTORS IN THE BUILDING.
2. THE GROUNDED CONDUCTOR MAY HAVE A BOLTED OR TERMINAL DISCONNECTING MEANS TO ALLOW MAINTENANCE OR TROUBLESHOOTING BY QUALIFIED PERSONNEL.
3. EQUIPMENT SUCH AS PHOTOVOLTAIC SOURCE CIRCUITS, OVERCURRENT DEVICES, AND BLOCKING DIODES SHALL BE PERMITTED ON THE PHOTOVOLTAIC SIDE OF THE PHOTOVOLTAIC DISCONNECTING MEANS.
4. MEANS SHALL BE PROVIDED TO DISCONNECT EQUIPMENT SUCH AS INVERTERS, BATTERIES, CHARGE CONTROLLERS, AND THE LIKE FROM ALL UNGROUNDED CONDUCTORS OF ALL SOURCES. IF THE EQUIPMENT IS ENERGIZED FROM MORE THAN ONE SOURCE, THE DISCONNECTING MEANS SHALL BE GROUPED AND IDENTIFIED.
5. FUSES AND DISCONNECTING MEANS SHALL BE PROVIDED TO DISCONNECT A FUSE FROM ALL SOURCES OF SUPPLY IF THE FUSE IS ENERGIZED FROM BOTH DIRECTIONS AND IS ACCESSIBLE TO OTHER THAN QUALIFIED PERSONS. SUCH A FUSE IN A PHOTOVOLTAIC SOURCE CIRCUIT SHALL BE CAPABLE OF BEING DISCONNECTED INDEPENDENTLY OF FUSES IN OTHER PHOTOVOLTAIC SOURCE CIRCUITS.

CONTRACTOR PROCEDURAL NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR THOROUGHLY INSPECTING THE SITE AND BECOMING FAMILIAR WITH ALL ASPECTS OF EXISTING CONDITIONS PRIOR TO COMMENCING CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM THAT THE DRAWINGS AND SPECIFICATIONS ACCURATELY DEPICT AND ACCOUNT FOR THE EXISTING CONDITIONS. ANY LACK OF DETAIL REGARDING EXISTING CONDITIONS IN THE DRAWINGS OR SPECIFICATIONS DOES NOT RELIEVE THE CONTRACTOR FROM PROVIDING ANY MATERIALS OR PERFORMING ANY WORK REQUIRED BY THE DESIGN DOCUMENTATION.
2. THE CONTRACTOR SHALL PROCURE ALL NECESSARY PERMITS PRIOR TO STARTING CONSTRUCTION.
3. ANY DEFICIENCIES, ERRORS, INCONSISTENCIES, OR CONFLICTS BETWEEN OBSERVED FIELD CONDITIONS AND THOSE DEPICTED IN THE DESIGN DRAWINGS SHOULD BE NOTED. CONTRACTOR SHALL CONFIRM ALL DIMENSIONS WITH FIELD MEASUREMENTS PRIOR TO STARTING WORK AND REPORT ANY DISCREPANCIES TO ENGINEER OF RECORD.
4. THE CONTRACTOR SHALL REVIEW ALL CIVIL, ARCHITECTURAL, AND MECHANICAL DRAWINGS AND COORDINATE THE ELECTRICAL WORK WITH THE OTHER TRADES. IF CONFLICTS, DISCREPANCIES, OR DEFICIENCIES ARE FOUND WHICH REQUIRE REVISIONS TO THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF RECORD. BEFORE PROCEEDING WITH THE INSTALLATION, CONTRACTOR MUST OBTAIN WRITTEN DIRECTION ON ANY REQUIRED MODIFICATIONS TO THE DESIGN.
5. ALL EQUIPMENT SHALL BE INSTALLED AS PER THE MANUFACTURER'S INSTRUCTIONS OR PER THE ENGINEER'S CONSTRUCTION DESIGN DOCUMENTS. THE CONTRACTOR SHALL REVIEW AND UNDERSTAND ALL ENGINEERING DRAWINGS AND COMPONENT MANUALS PRIOR TO THE INSTALLATION OR ENERGIZING OF ANY EQUIPMENT. THE CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING AND OPERATING ALL INVERTERS IN ACCORDANCE WITH THE LATEST MANUFACTURER'S INSTALLATION AND OPERATION DOCUMENTATIONS, INCLUDING ALL MANUFACTURER'S TECHNICAL BULLETINS AND UPDATES.
6. THE CONTRACTOR SHALL INSTALL SYSTEM INTERCONNECTION AS REQUIRED BY UTILITY INTERCONNECTION STANDARDS.
7. ANY CHANGES TO OR DEVIATIONS FROM THE DESIGN MADE PRIOR TO THE RECEIPT OF WRITTEN APPROVAL BY THE ENGINEER OF RECORD ARE DONE AT THE CONTRACTOR'S SOLE RISK. THE CONTRACTOR SHALL SUBMIT WRITTEN REQUESTS FOR INFORMATION (RFI) FOR ANY DISCREPANCIES OR PROPOSED CHANGES. RFIS WILL INCLUDE DETAILED SUBMITTALS FOR REVIEW AND APPROVAL BY THE ENGINEER OF RECORD.
8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO RECEIVE, STORE, AND SECURE ALL EQUIPMENT PRIOR TO AND DURING INSTALLATION.

ELECTRICAL ABBREVIATIONS:

ACP	ACCUMULATION PANEL
A, AMP	AMPERE
AF	AMP FRAME
AIC	AMPERE INTERRUPTING CAPACITY
APPROX	APPROXIMATE(LY)
AL	ALUMINUM
AWG	AMERICAN WIRE GAUGE
BLDG	BUILDING
CB	CIRCUIT BREAKER
CONC	CONCRETE
CEC	CALIFORNIA ELECTRICAL CODE
Cu	COPPER
CT	CURRENT TRANSFORMER
DIA	DIAMETER
DISC	DISCONNECT
(E)	EXISTING
EC	ELECTRICAL CONTRACTOR
EMT	ELECTRICAL METALLIC TUBING
EM	EMERGENCY
ENC	ENCLOSURE, ENCLOSED
EV	ELECTRIC VEHICLE
EVCS	ELECTRIC VEHICLE CHARGING STATION
FMC	FLEXIBLE METAL CONDUIT
G, GND	GROUND OR GROUNDING
GA	GALVANIZED
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
IN	INCHES
J, JB	JUNCTION BOX
KCMIL	THOUSAND CIRCULAR MILS
KV	KILOVOLT
KVA	KILOVOLT - AMPERE
KWp	KILOWATT PEAK
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MDP	MAIN DISTRIBUTION PANEL
MSP	MAIN SERVICE PANEL
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MLO	MAIN LUGS ONLY
N, NEUT	NEUTRAL
(N)	NEW
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NTS	NOT TO SCALE
OCPD	OVERCURRENT PROTECTIVE DEVICE
OH	OVERHEAD
P	POLE
POI	POINT OF INTERCONNECTION
PT	POTENTIAL TRANSFORMER
PV	PHOTOVOLTAIC
PVC	POLYVINYL CHLORIDE
RMC	RIGID METAL CONDUIT
SCH	SCHEDULE
SP	SPARE
TX, XFMR	TRANSFORMER
TB	TERMINAL BLOCK
TBD	TO BE DETERMINED
TYP	TYPICAL
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED

LEGEND:

MODULES	DRIVE WAY	WHEEL STOPS
EQUIPMENT	SETBACK	PROPERTY LINE
OBSTRUCTION	AC CONDUIT RUN (ABOVE GROUND)	PEDESTAL
INVERTER	AC CONDUIT RUN (UNDERGROUND)	EV CHARGER
TRANSFORMER	DC CONDUIT RUN (ABOVE GROUND)	FUSED DISCONNECT
METER	DC CONDUIT RUN (UNDERGROUND)	SIGNAGE (LOCATION)
NON-FUSED DISCONNECT	CIRCUIT BREAKER	SAFETY BOLLARD
MODULE		

GENERAL CONDUCTOR INSULATION KEY	
DC CONDUCTORS	
POSITIVE (UNGROUNDED)	RED
NEGATIVE (UNGROUNDED)	BLACK
120/240V AC CONDUCTORS	
PHASE A	BLACK
PHASE B	RED
NEUTRAL	WHITE OR GRAY
GROUND	GREEN OR BARE Cu
120/208V OR 240V AC CONDUCTORS	
PHASE A	BLACK
PHASE B	RED (SEE NOTE)
PHASE C	BLUE
NEUTRAL	WHITE OR GRAY
GROUND	GREEN OR BARE Cu
277/480V AC CONDUCTORS	
PHASE A	BROWN
PHASE B	ORANGE
PHASE C	YELLOW
NEUTRAL	WHITE OR GRAY
GROUND	GREEN OR BARE Cu
347/600V AC CONDUCTORS	
PHASE A	BROWN
PHASE B	ORANGE
PHASE C	YELLOW
NEUTRAL	WHITE OR GRAY
GROUND	GREEN OR BARE Cu
NOTE: ON THREE PHASE HIGH LEG DELTA SYSTEMS, HIGH LEG MUST BE ORANGE, AS PER REQUIRED BY NFPA 70.	

IDENTIFICATION STAMP
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DATE: 04/28/2026

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DRAWING SUBMITTAL SCHEDULE

100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO: 22434-E-02

GENERAL NOTES

PV-002

Autodesk Docs://KHSD--Central Valley Continuation HS/22434E Central Valley CHS_MEP_SP_1_R23.rvt
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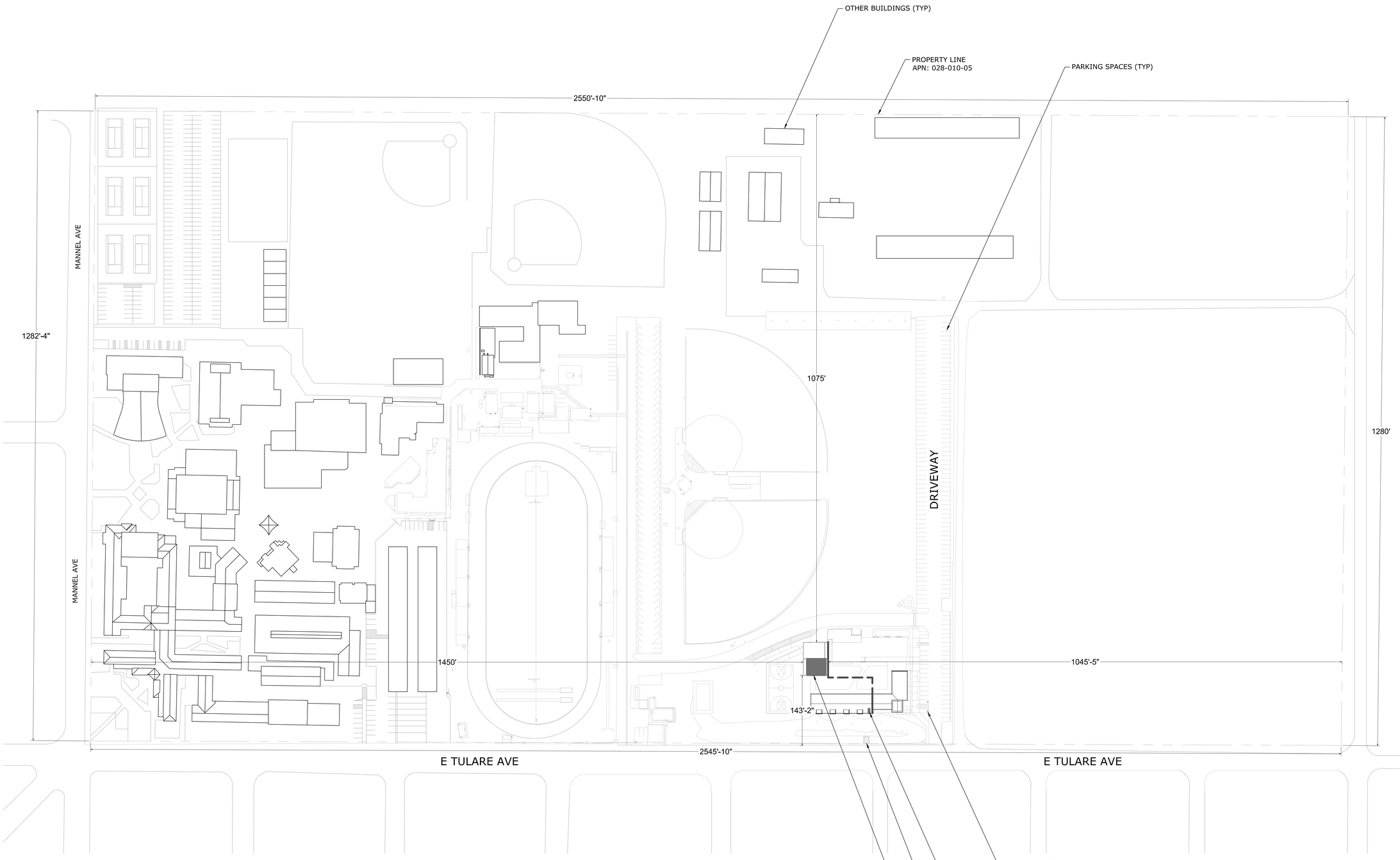
SITE PLAN:



SCALE:1"=80'-0"

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DRAWING SUBMITTAL SCHEDULE	
100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO: 22434-E-02

SITE PLAN

PV-101

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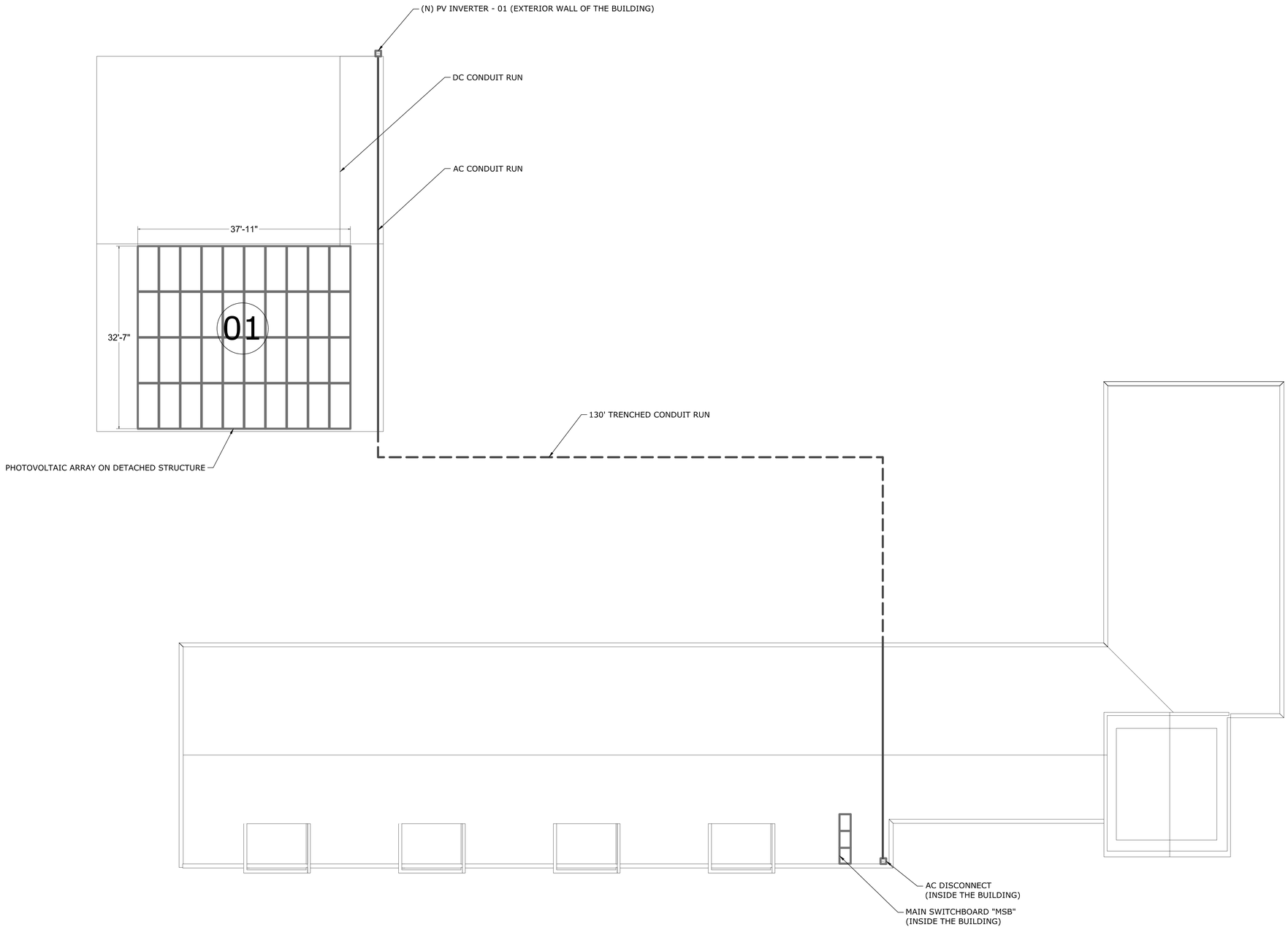
8/15/2025 8:37:04 AM

ROOF PLAN:

ARRAY	QUANTITY	ROOF PITCH	AZIMUTH
ARRAY-01	40	10°	180°



SCALE:1/8" = 1'-0"

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DRAWING SUBMITTAL SCHEDULE	
100% CONSTRUCTION DOCUMENTS	11/21/2025
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DWG V3	04/28/2026

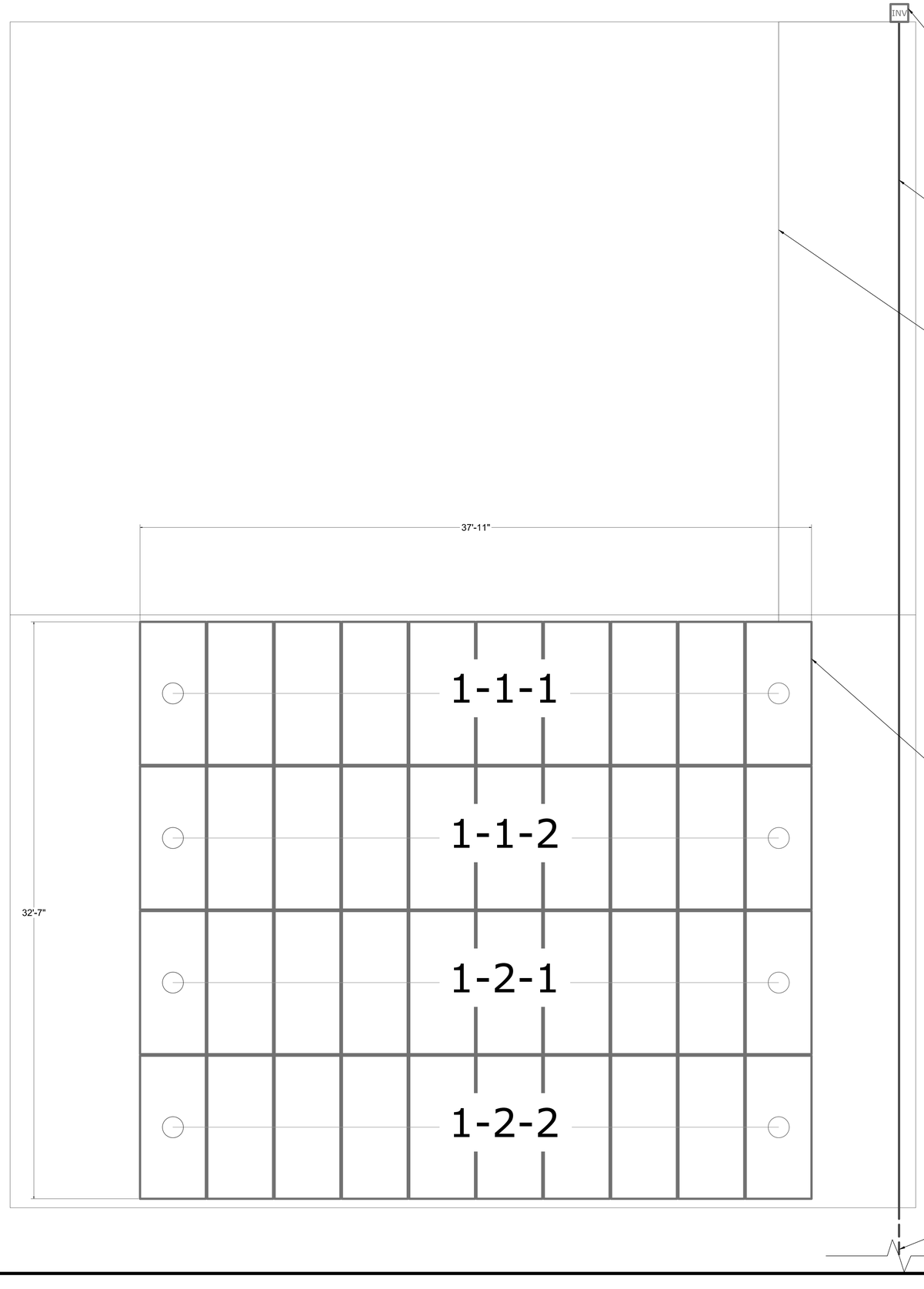
PROJECT NO: 22434-E-02

ROOF PLAN

PV-201

Autodesk Docs://KHSD_Central Valley Continuation HS\24341 Central Valley CHS_MEP_FP_T_R23.rvt
8/15/2025 8:37:24 AM

STRING PLAN:



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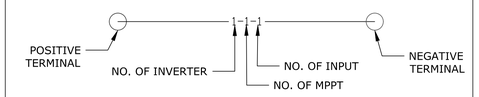

STRINGING DETAILS

STRING	MODULE QTY.	RSD QTY.
1-1-1	10	5
1-1-2	10	5
1-2-1	10	5
1-2-2	10	5
TOTAL	**40**	**20**

SCALE: 3/8" = 1'-0"

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CENTRAL VALLEY
CONTINUATION HIGH SCHOOL CAMPUS
526 MANNEL AVENUE
SHAFTER, CA 93263

DRAWING SUBMITTAL SCHEDULE	
100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO: 22434-E-02

STRING PLAN

PV-202

Autodesk Docs://KNDS_Central Valley Continuation HS\22434\01 Central Valley_CHS_MEP_PP_T_R23.rvt
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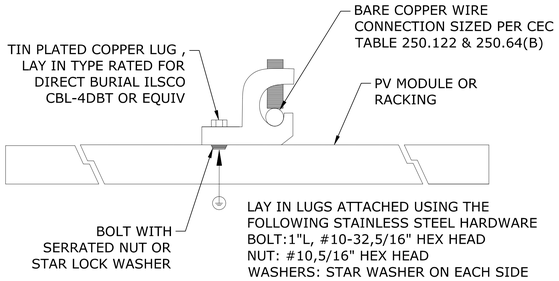
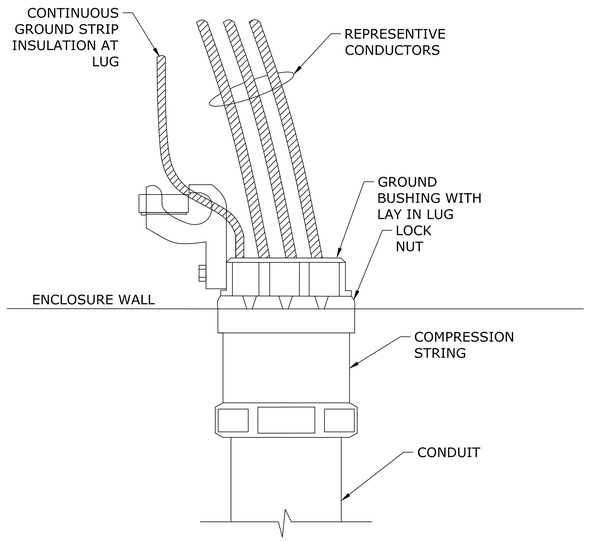
ELECTRICAL MOUNTING DETAILS:

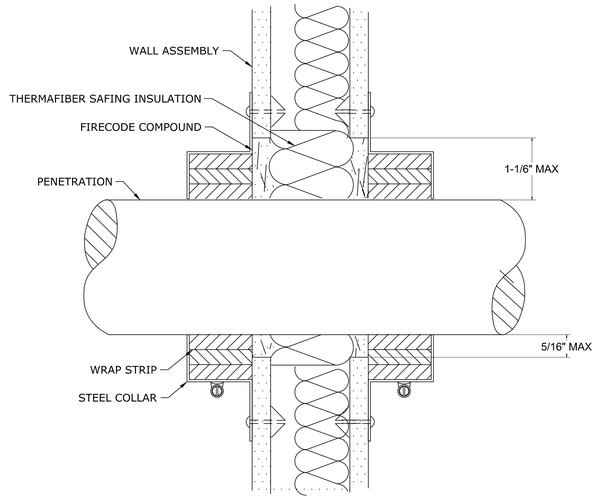
GROUND LUG DETAIL:



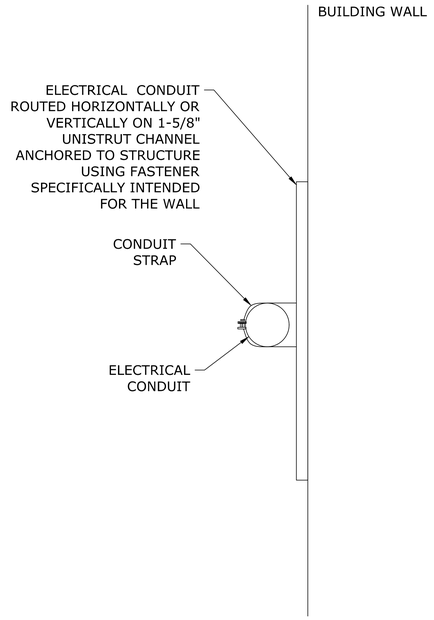
CONDUIT BODY GROUNDING DETAIL:



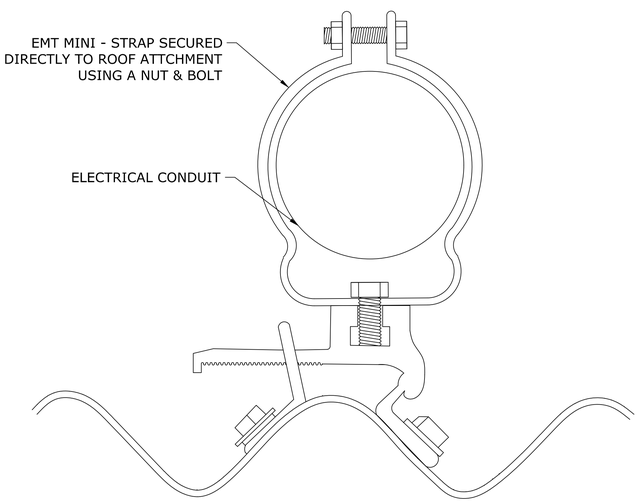
FIRE WALL PENETRATION DETAIL:



TYPICAL CONDUIT WALL ANCHORING:



TYPICAL CONDUIT SUPPORT DETAIL:



NOTE: DETAIL DRAWINGS ARE FOR REFERENCE ONLY

GROUNDING - SEE ELECTRICAL DIAGRAM AND ELECTRICAL DETAILS FOR MORE GROUNDING INFORMATION:

1.ONLY ONE CONNECTION TO DC CIRCUITS AND AC CIRCUITS WILL BE USED FOR SYSTEM GROUNDING (REFERENCED TO THE SAME POINT).
2.EQUIPMENT GROUNDING CONDUCTORS AND SYSTEM GROUNDING ELECTRODE CONDUCTORS WILL HAVE AS SHORT A DISTANCE TO THE GROUNDING CONNECTION POINT AS PRACTICABLE AND A MINIMUM NUMBER OF TURNS.
3.TO ENSURE PROPER GROUNDING, NON-CURRENT CARRYING METAL PARTS SHALL BE INSTALLED, NOTING THAT PAINT AND FINISH SHALL BE PROPERLY REMOVED WHERE IT MAY INSULATE AN ENCLOSURES BONDING CONNECTION.APPLY NO-LOX OR OTHER SIMILAR ANTI-OXIDANT COMPOUND TO EXPOSED SURFACES.
4.THE CONNECTION TO THE MODULE OF THE PROPOSED SOLAR ELECTRIC SYSTEM SHALL BE SO ARRANGED THAT REMOVAL OF A MODULE FROM THE PHOTOVOLTAIC SOURCE CIRCUIT DOES NOT INTERRUPT A GROUND TO ANOTHER PHOTOVOLTAIC SOURCE CIRCUIT.
5.GROUNDING SYSTEM COMPONENTS SHALL BE APPROVED FOR THEIR PURPOSE, INCLUDING BUT NOT LIMITED TO GROUND RODS, GROUNDING LUGS, GROUNDING CLAMPS, ETC. GROUNDING DEVICES EXPOSED TO THE ENVIRONMENT SHALL BE RATED FOR DIRECT BURIAL.
6.UNDERGROUND OR INACCESSIBLE CONNECTIONS OF GROUNDING CONDUCTORS SHALL ONLY BE MADE VIA EXO-THERMIC WELDS. THE USE OF MECHANICAL CONNECTIONS ARE ACCEPTABLE FOR ACCESSIBLE ABOVE GROUND LOCATIONS.
7.ALL METALLIC CONDUITS SHALL BE INSTALLED AND TERMINATED WITH INSULATED GROUND BUSHINGS.

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RAMI S. ZEIDAN
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Exp. 9/30/26
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KERN HIGH SCHOOL DISTRICT
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DRAWING SUBMITTAL SCHEDULE	
100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO: 22434-E-02

ELECTRICAL MOUNTING DETAILS

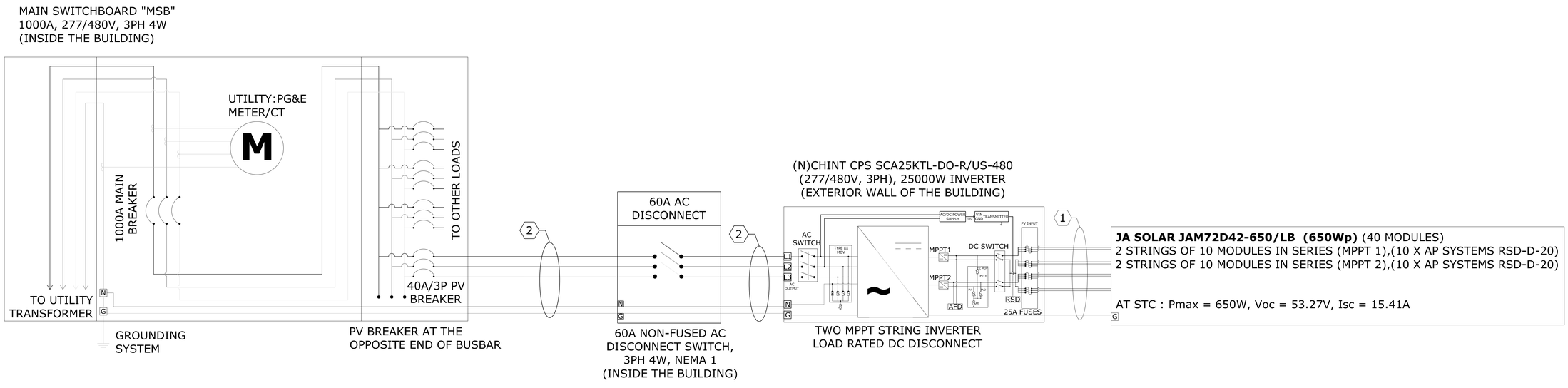
PV-301

LINE DIAGRAM: DC SYSTEM SIZE: **26.00**kWp, AC SYSTEM SIZE: **25.00**kW

OCPD CALCULATIONS
MAIN PANEL RATING: 1000A, MAIN BREAKER RATING: 1000A
120% RULE: (1000A X 1.2) - 1000A = 200A --> ALLOWABLE BACKFEED IS 200A

OCPD = INVERTER OUTPUT X # OF INVERTERS X 1.25
=(30.5A X 1) X 1.25 = 38.13A --> PV BREAKER/FUSE = 40A
ALLOWABLE BACKFEED 200A --> 40A PV BREAKER
THE DESIGNED INTERCONNECTION MEETS THE 705.12(B)(3)(2) REQUIREMENTS.

NOTE:
1.THIS INSTALLATION IS TO BE CONSIDERED SUPERVISED. ALL NEW ADDITIONS AND ALTERATIONS TO ANY EQUIPMENT IDENTIFIED IN THIS DOCUMENT MUST BE MADE WITH ENGINEERING SUPERVISION AND ALL WORK MUST BE COMPLETED BY QUALIFIED PERSONNEL.
2.ALL EQUIPMENT AND TERMINALS MUST BE MINIMUM 75°C RATED.
3.ALL CONDUCTORS ARE COPPER, UNLESS OTHERWISE SPECIFIED.
4.MINIMUM TEMPERATURE : -1.6°C
5.MAXIMUM TEMPERATURE : 39.6°C
6.EACH AP SYSTEMS RSD-D-20 RES CONNECTED TO TWO MODULES.



CONDUIT SCHEDULE

TAG ID	CONDUIT SIZE	CONDUCTOR	NEUTRAL	GROUND	CONDUIT FILL%
1	1-1/4" EMT	(8) 10 AWG PV WIRE 2kV	NONE	(1) 6 AWG BARE COPPER	29.06
2	3/4" EMT / PVC	(3) 8 AWG THHN/THWN-2	(1) 10 AWG THHN/THWN-2	(1) 10 AWG THHN/THWN-2	27.68 / 36.06

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DRAWING SUBMITTAL SCHEDULE

100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO: 22434-E-02

LINE DIAGRAM

PV-302

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ELECTRICAL CALCULATIONS:
SYSTEM INFO:
26.00 kWp DC SYSTEM SIZE
(40)JA SOLAR JAM72D42-650/LB (650WP) MODULES,
(1)CHINT CPS SCA25KTL-DO-R/US-480 (277/480V, 3PH),
(20)AP SYSTEMS RSD-D-20
SYSTEM CHARACTERISTICS:
VMP - (MODULE VMP) X (# MAX MODULES / STRINGS) = 44.67V X 10 = 446.70V
VOC - [(TEMP COEF VOC X (VOC)) / 100] X [LOW TEMP - STC TEMP] + VOC X (# MAX MODULES / STRINGS)= [(-0.25%/°C X 53.27V)/ 100] X [-1.6°C - 25°C] + 53.27V X 10 = 568.12V
IMP - (MODULE IMP) X (HIGHEST # OF STRINGS PER MPPT) = 14.55A X 2 = 29.10A
ISC - (MODULE ISC) X (HIGHEST # OF STRINGS PER MPPT) X 1.25 = 1.25 X 15.41 X 2 = 38.53A
DC WIRE SIZING: (TAG-1)
MAX CIRCUIT CURRENT = MODULE ISC X 1.25 X 1.25 = 15.41A X 1.25 X 1.25 = 24.08A
ADJUSTED CONDUCTOR AMPACITY = (HIGH TEMP) [PER TABLE 310.15(B)(1)] X (CONDUIT FILL) [PER TABLE 310.15(C)(1)] X (CONDUCTOR AMPACITY) [PER TABLE 310.16] = 0.91 X 0.7 X 40A = 25.48A
TERMINAL RATING, [PER CEC 110.14(C)] - 10 AWG, 60°C RATED = 30A
30A > 24.08A, SO ADJUSTED CONDUCTOR AMPACITY GOVERNS THE CONDUCTOR SIZING
ALSO, 25.48A > 19.26A, AND **10 AWG** IS SUFFICIENT.
AC WIRE SIZING: (TAG-2)
MAX AC OUTPUT CURRENT = MAX INVERTER OUTPUT X 1.25 = 30.5A X 1.25 = 38.13A
ADJUSTED CONDUCTOR AMPACITY = (HIGH TEMP) [PER TABLE 310.15(B)(1)] X (CONDUIT FILL) [PER TABLE 310.15(C)(1)] X (CONDUCTOR AMPACITY) [PER TABLE 310.16] = 0.91 X 1 X 55A = 50.05A
TERMINAL RATING, [PER CEC 110.14(C)] - 8 AWG , 75°C RATED = 50A
50A >38.13A, SO THE TERMINAL RATING GOVERNS THE CONDUCTOR SIZING
ALSO, 50.05A >30.5A, AND **8 AWG** IS SUFFICIENT
INVERTER OVER CURRENT PROTECTION
(INVERTER MAX CURRENT) X 1.25 = 30.5A X 1.25 = 38.13A --> 40A OVERCURRENT PROTECTION

MODULE SPECIFICATIONS	
MODEL	JA SOLAR JAM72D42-650/LB (650Wp)
MODULE POWER @ STC	650W
OPEN CIRCUIT VOLTAGE:**Voc**	53.27V
MAX POWER VOLTAGE:**Vmp**	44.67V
SHORT CIRCUIT CURRENT:**Isc**	15.41A
MAX POWER CURRENT:**Imp**	14.55A

RSD CHARACTERISTICS	
MODEL	**AP SYSTEMS RSD-D-20**
MAX INPUT VOLTAGE	80 VDC
MAX INPUT CURRENT	20 ADC
MAX OUTPUT CURRENT	20 ADC
MAX OUTPUT VOLTAGE	160 VDC

INVERTER SPECIFICATIONS	
MODEL	CHINT CPS SCA25KTL-DO-R/US-480 (277/480V, 3PH)
POWER RATING	25000VA
MAX OUTPUT CURRENT	30.5A
CEC WEIGHTED EFFICIENCY	98%
MAX INPUT CURRENT	72
MAX DC VOLTAGE	1000V

VOLTAGE DROP CALCULATIONS:

DC VOLTAGE DROP CALCULATION

SOURCE	TERMINATION	TAG	CONDUIT TYPE	CURRENT	STRING VOLTAGE AT 2%DB (VMP)	#SET OF PARALLEL CONDUCTOR	CONDUCTOR	CONDUCTOR MATERIAL	RESISTANCE AT 75 DEG C	RESISTANCE AT 2%DB	MAX CONDUCTOR LENGTH(ft)	%V.DROP
MODULES	INVERTER	1	EMT	14.55	446.7	1	C AWG 10	Cu	0.00124	0.001098216	75	0.46%
											MAX Vdrop	0.46%
											AVERAGE Vdrop	0.46%

3 PHASE AC VOLTAGE DROP CALCULATION

SOURCE	TERMINATION	TAG	CONDUIT TYPE	CURRENT	VOLTAGE	#SET OF PARALLEL CONDUCTOR	CONDUCTOR	CONDUCTOR MATERIAL	RESISTANCE AT 75 DEG C	RESISTANCE AT 2%DB	MAX CONDUCTOR LENGTH(ft)	%V.DROP
INVERTER	AC DISCONNECT	2	EMT/PVC	30.5	480	1	D AWG 08	Cu	0.00078	0.0006908132	240	1.82%
AC DISCONNECT	POI	2	EMT	30.5	480	1	D AWG 08	Cu	0.00078	0.0006908132	10	0.08%
											MAX Vdrop	1.90%
											AVERAGE Vdrop	1.90%
											TOTAL SYSTEM VDROP	2.37%

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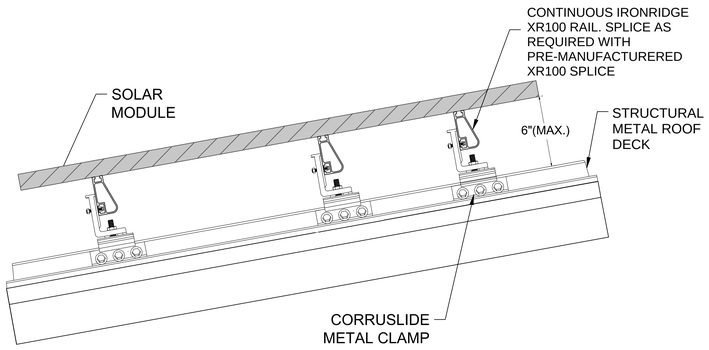
DWG V3	04/28/2026

PROJECT NO: 22434-E-02

ELECTRICAL CALCULATIONS

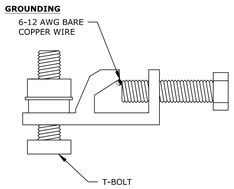
PV-401

ATTACHMENT DETAIL-CORRU SLIDE METAL CLAMP



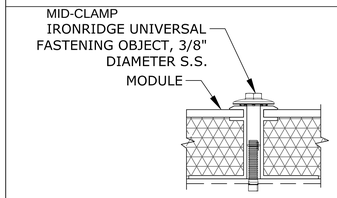
SCALE:NTS

GROUNDING



SCALE: NTS

MID-CLAMP AND END-CLAMP ANATOMY



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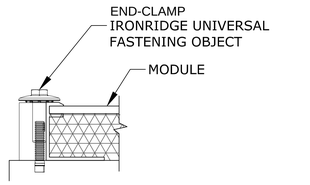


SCALE: NTS

SITE INFORMATION - WIND SPEED: 100 MPH AND SNOW LOAD: 0 PSF, EXPOSURE C, RISK CATEGORY III

SR. NO	AZIMUTH	ROOF PITCH	NO. OF MODULES	ARRAY AREA (SQ.FT.)	ATTACHMENT	MAX RAIL SPAN	MAX RAIL CANTILEVER
ARRAY MP-01	180°	10°	40	1203.30	CORRUSLIDE METAL CLAMP	6'-0"	2'-0"

GENERAL STRUCTURAL NOTES:

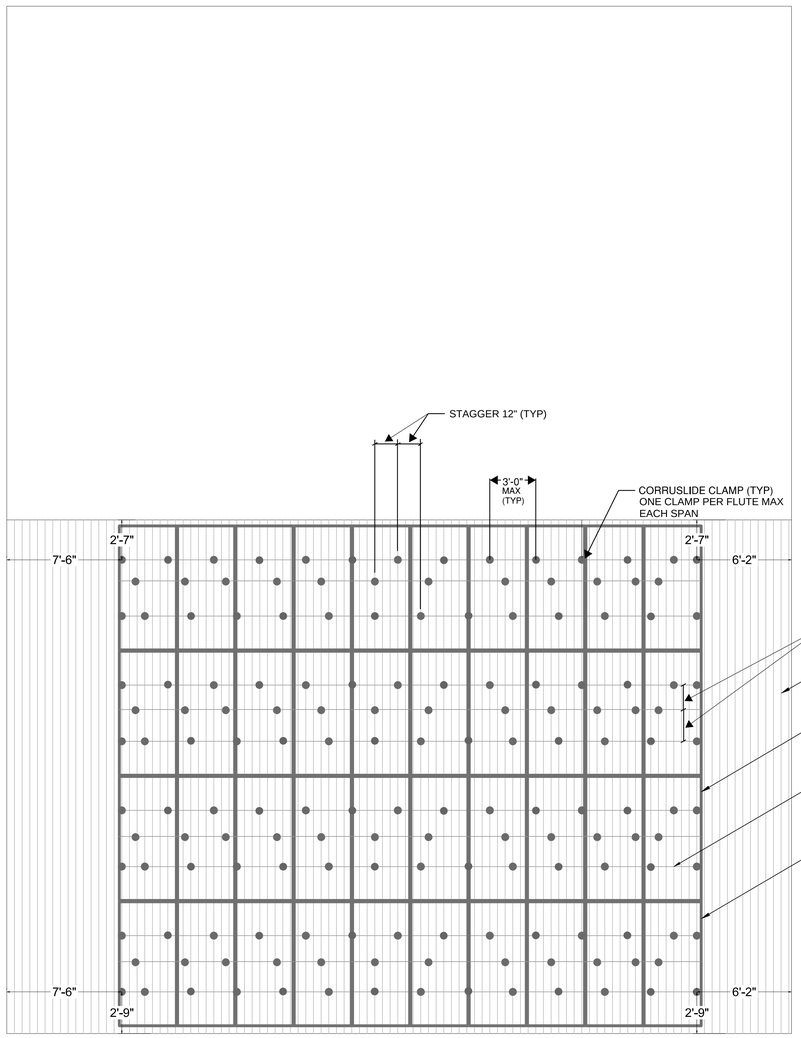
1.ALL EQUIPMENTS SHALL BE INSTALLED PER MANUFACTURER INSTALLATION AND OPERATIONS MANUAL REQUIREMENTS.
2.PRIOR TO COMMENCEMENT OF WORK OR FABRICATION OF COMPONENTS, THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, DIMENSIONS,AND ELEVATIONS OF THE EXISTING CONSTRUCTION.CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN THE FIELD -VERIFIED CONDITIONS, DIMENSIONS,AND ELEVATION AND THOSE INDICATED ON THE DRAWINGS.
3.ALL THE CONSTRUCTION SHALL COMPLY WITH REQUIREMENTS OF 2022 EDITION OF THE CALIFORNIA BUILDING CODE.

SOLAR RACK COMPONENTS:

1. FOLLOW MANUFACTURER'S INSTALLATION FOR INSTALLATION OF ALL SOLAR PANEL SUPPORT COMPONENTS, INCLUDING BUT NOT LIMITED TO: MODULE CLAMPS, L-FEET, BRACKETS, MECHANICAL ATTACHMENTS, AND OTHER HARDWARE.

DEAD LOAD CALCULATIONS

BOM	QUANTITY	LBS/UNIT	TOTAL WEIGHT (LBS)
MODULES	40	76.27	3050.80
MID-CLAMP	72	0.050	3.60
END-CLAMP	16	0.050	0.80
RAIL	672	0.710	477.12
SPLICE BAR	40	0.360	14.40
CORRU SLIDE METAL CLAMP	64	0.53	33.92
TOTAL WEIGHT OF THE SYSTEM (LBS)			3580.64
TOTAL ARRAY AREA ON THE ROOF (SQ. FT.)			1203.30
WEIGHT PER SQ. FT.(LBS)			2.98
WEIGHT PER PENETRATION (LBS)			55.95



SCALE:1/4" = 1'-0"

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DWG V3	04/28/2026

PROJECT NO: 22434-E-02

STRUCTURAL DETAIL & ARRAY PLAN

PV-501

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PLACARDS

⚠ WARNING

ELECTRIC SHOCK HAZARD
THE DC CONDUCTORS OF THIS PHOTOVOLTAIC SYSTEM ARE UNGROUNDED AND MAY BE ENERGIZED

INSTALLED ON: DC DISCONNECT, INVERTER
[TO BE USED WHEN INVERTER IS UNGROUNDED]

⚠ WARNING

ELECTRIC SHOCK HAZARD
TERMINALS ON BOTH LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION

INSTALLED ON: AC DISCONNECT, POINT OF INTERCONNECTION
APPLICABLE CODE(S): CEC 690.13

WARNING-ELECTRIC SHOCK HAZARD
NO USER SERVICEABLE PARTS INSIDE
CONTACT AUTHORIZED SERVICE PROVIDE FOR ASSISTANCE

INSTALLED ON: INVERTER, JUNCTION BOXES(ROOF), AC DISCONNECT

SOLAR DISCONNECT

INSTALLED ON: DISCONNECT, POINT OF INTERCONNECTION PER CODE: CEC690.13(B)

WARNING:PHOTOVOLTAIC POWER SOURCE

INSTALLED ON: CONDUIT, RACEWAYS, AND J-BOXES (LABELED EVERY 10'). REFLECTIVE. MIN 3/8" WHITE TEXT ON BLACK BACKGROUND.
APPLICABLE CODE(S): CEC 690.31(D)(2)

INVERTER 1

MAXIMUM DC VOLTAGE
1000 V
OF PV SYSTEM

INSTALLED ON: INVERTER
APPLICABLE CODE(S): CEC 690.53

PHOTOVOLTAIC SYSTEM AC DISCONNECT SWITCH
RATED AC OPERATING CURRENT **30.5** AMPS AC
AC NOMINAL OPERATING VOLTAGE **480** VAC

INSTALLED ON: AC DISCONNECT(S), POINT OF INTERCONNECTION.
APPLICABLE CODE(S): CEC 690.54

⚠ WARNING
DUAL POWER SOURCE SECOND SOURCE IS PHOTOVOLTAIC SYSTEM

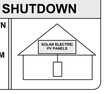
INSTALLED ON: POINT OF INTERCONNECTION
APPLICABLE CODE(S): CEC 705.12(B)(3-4) AND 690.59

WARNING
POWER SOURCE OUTPUT CONNECTION
DO NOT RELOCATE THIS OVER-CURRENT DEVICE

INSTALLED ON: POINT OF INTERCONNECTION
APPLICABLE CODE(S): CEC 705.12(B)(3)(2)

SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN

TURN RAPID SHUTDOWN SWITCH TO THE "OFF" POSITION TO SHUT DOWN PV SYSTEM AND REDUCE SHOCK HAZARD IN THE ARRAY



INSTALLED ON: WITHIN 3 FT OF SERVICE DISCONNECTING MEANS. MIN 3/8" BLACK TEXT ON YELLOW BACKGROUND & 3/16" BLACK TEXT ON WHITE BACKGROUND.
APPLICABLE CODE(S): CEC 690.56(C)

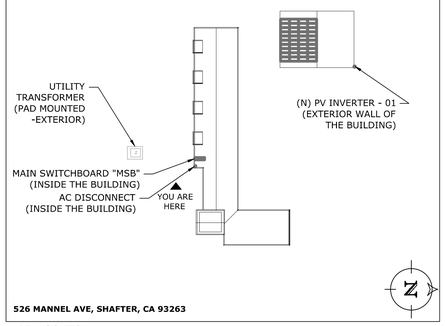
RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM

INSTALLED ON:RAPID SHUTDOWN SWITCH
APPLICABLE CODE(S): CEC 690.56(C)(2)

CAUTION:MULTIPLE SOURCES OF POWER

POWER TO THIS BUILDING IS ALSO SUPPLIED FROM THE FOLLOWING SOURCES WITH DISCONNECTS LOCATED AS SHOWN

EACH MICROINVERTER IS CONNECTED UP TO FOUR MODULES



526 MANNEL AVE, SHAFTER, CA 93263

LABEL LOCATION
SERVICE PANEL
PER CODE: CEC 705.10

NOTES

1.PLACARDS SHALL MEET THE REQUIREMENTS OF ARTICLES 690 AND 705, UNLESS OTHERWISE SPECIFIED PER LOCAL AHJ REQUIREMENTS.
2.PLACARDS SHALL MEET THE REQUIREMENTS OF SECTION 110.21(B) AS REQUIRED AND SHALL COMPLY WITH ANSI Z535.4-2011, PRODUCT SAFETY SIGNS AND LABELS.
3.PLACARDS SHALL BE PERMANENTLY AFFIXED TO THE EQUIPMENT OR WIRING METHOD.
4.PLACARDS SHALL BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED AND SHALL BE HANDWRITTEN.
5.PLACARDS SHALL NOT COVER EXISTING MANUFACTURER LABELS.

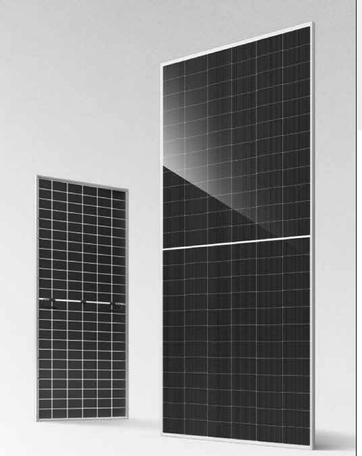
MODULE SPECIFICATION SHEET

Harvest the Sunshine
650W

JA SOLAR

JAM72D42 LB n-type Double Glass Bifacial Modules

DEEP BLUE 4.0 Pro



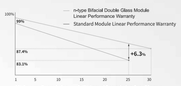
Premium Cells

n-Bycium+ 16BB — MBB Half-Cell Technology

26% Up To — Cell Conversion Efficiency

Premium Modules

- Higher power generation better LCOE
- n-type with very Lower LID
- Better Temperature Coefficient
- Better low irradiance response

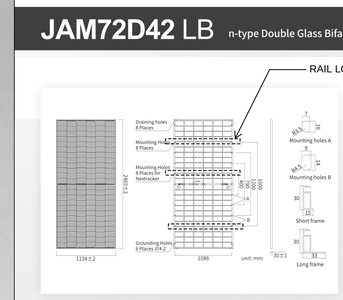


Comprehensive Certificates

- IEC 61215, IEC 61730, UL 61215, UL 61730
- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems
- ISO 45001: 2018 Occupational health and safety management systems
- IEC 62941: 2019 Terrestrial photovoltaic (PV) modules - Quality system for PV module manufacturing

TÜV CE ETL Intertek

DEEP BLUE 4.0 Pro



MECHANICAL PARAMETERS

Cell	Mono
Weight	34.6kg
Dimensions	2465±2mm×1134±2mm×30±1mm
Cable Cross Section Size	4mm²(IEC), 12 AWG(UL)
No. of cells	144(6×24)
Junction Box	IP68, 3 diodes
Connector	QC 4.10-35 / MC4-EVO2A
Cable Length (Including Connector)	Portrait: 300mm(+) /400mm(-) Landscape: 1500mm(+)/1500mm(-)
Front Glass/Back Glass	2.0mm/2.0mm
Packaging Configuration	36pcs/Pallet, 576pcs/40HQ Container

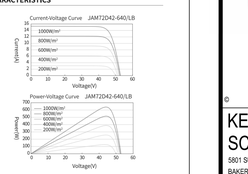
Remark: customized frame color and cable length available upon request

ELECTRICAL PARAMETERS AT STC

TYPE	JAM72D42 -625/LB	JAM72D42 -630/LB	JAM72D42 -635/LB	JAM72D42 -640/LB	JAM72D42 -645/LB	JAM72D42 -650/LB
Rated Maximum Power(Pmax) [W]	625	630	635	640	645	650
Open Circuit Voltage (Voc) [V]	52.27	52.47	52.67	52.87	53.07	53.27
Maximum Power Voltage(Vmp) [V]	43.71	43.90	44.10	44.29	44.49	44.67
Short Circuit Current(Isc) [A]	15.16	15.21	15.26	15.31	15.36	15.41
Maximum Power Current(Imp) [A]	14.30	14.35	14.40	14.45	14.50	14.55
Module Efficiency [%]	22.4	22.5	22.7	22.9	23.1	23.3
Power Tolerance	0~+3%					
Temperature Coefficient of Isc(α_Isc)	+0.045%/°C					
Temperature Coefficient of Voc (β_Voc)	-0.250%/°C					
Temperature Coefficient of Pmax(γ_Pmp)	-0.290%/°C					
STC	Irradiance 1000W/m², cell temperature 25°C, AM1.5G					

Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer.
They only serve for comparison among different module types.

CHARACTERISTICS



ELECTRICAL CHARACTERISTICS WITH 10% SOLAR IRRADIATION RATIO

TYPE	JAM72D42 -625/LB	JAM72D42 -630/LB	JAM72D42 -635/LB	JAM72D42 -640/LB	JAM72D42 -645/LB	JAM72D42 -650/LB
Rated Max Power(Pmax) [W]	675	680	686	691	697	702
Open Circuit Voltage(Voc) [V]	52.27	52.47	52.67	52.87	53.07	53.27
Max Power Voltage(Vmp) [V]	43.71	43.90	44.10	44.29	44.49	44.67
Short Circuit Current(Isc) [A]	16.37	16.43	16.48	16.53	16.59	16.64
Max Power Current(Imp) [A]	15.44	15.50	15.55	15.61	15.66	15.71
Irradiation Ratio (rear/front)	10%					

* For Nextracker installations, maximum static load please take compatibility approve letter between JA Solar and Nextracker for reference.

OPERATING CONDITIONS

Maximum System Voltage	1500V DC
Operating Temperature	-40°C~+85°C
Maximum Series Fuse Rating	30A
Maximum Static Load, Front*	5400Pa(112 lb/ft²)
Maximum Static Load, Back*	2400Pa(50 lb/ft²)
NOCT	45±2°C
Bifaciality	80%±5%
Safety Class	Class II
Fire Performance	UL Type 29/Class C

JA SOLAR

Headquarters No. 8 Building, Nuode Center, No.1 Courtyard, East Auto Museum Road, Fengtai District, Beijing
Tel:+86 10 6361 1888 Fax:+86 10 6361 1999
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Specifications subject to technical changes and tests.
JA Solar reserves the right of final interpretation.

Version No. : Global-EN-20241105A

INVERTER SPECIFICATION SHEET

CPS

Datasheet

25 kW-480 V, 1000 Vdc String Inverters for North America

The CPS 25 kW-480 V three-phase string inverter is designed for rooftop and carport applications. These units are high performance, advanced, and reliable inverters designed specifically for the North American environment and grid. High efficiency at 98.5% peak and 98.0% CEC, wide operating voltages, broad temperature ranges, and a NEMA Type 4X enclosure enable this inverter platform to operate at high performance across many applications. The CPS 25 kW-480 V product ships with a Rapid Shutdown wire box, fully integrated and separable with touch-safe fusing, monitoring, and AC and DC disconnect switches. The integrated PLC transmitter in the Rapid Shutdown Wire-box enables PVRSS-certified module-level rapid shutdown when used with APS RSD-S-PLC/RSD-D products. The CPS FlexOM Gateway enables monitoring, controls and remote product upgrades.

CPS SCA25KTL-DO-R/US-480

Key Features

- PVRSS-certified rapid shutdown
- UL-1699B compliant arc-fault circuit protection
- 15-90° mounting orientation for low profile roof installs
- 15° tilt Inverter Rack Assembly available from CPS
- Optional FlexOM Gateway enables remote firmware upgrades
- Integrated AC & DC disconnect switches
- 2 MPPTs with 3 inputs each for maximum flexibility
- Copper and Aluminum compatible AC connections
- NEMA Type 4X outdoor rated, tough tested enclosure
- UL 1741-SA certified to CA Rule 21, including SA14 - SA18
- UL 1741-SB and IEEE 1547-2018 certified
- Separable wire-box design for fast service
- Standard 10-year warranty with extensions to 20 years

SCA25KTL (480V) Rapid Shutdown Wire-box

ETL LISTED CONFORMS TO UL STD 1741 CERTIFIED TO CSA STD C22.2 NO. 107.1-01

FC This device complies with part 15 of the FCC Rules

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Chint Power Systems America
1380 Presidential Drive, Suite 100, Richardson, TX 75081
Tel: 855-584-7168 Mail: AmericaSales@chintpower.com Web: www.chintpowersystems.com

CPS

Technical Data

Model Name	CPS SCA25KTL-DO-R/US-480
DC Input	
Max. PV power	37.5 W (22 kW per MPPT)
Max. DC input voltage	1000 Vdc
Operating DC input voltage range	200-950 Vdc
Start-up DC input voltage / power	330 V / 80 W
Number of MPP trackers	2
MPPT voltage range for Pnom @ PF > 0.99	560-850 Vdc
Max. PV short-circuit current[1]	72 A (36 A per MPPT)
Number of DC inputs	6 inputs, 3 per MPPT
DC disconnection type	Load-rated DC switch
DC surge protection	Type II MOV
AC Output	
Rated AC output power @ PF=1	25 kW
Max. AC apparent power	25 kVA
Rated output voltage	480 Vac
Output voltage range[2]	422-528 Vac
Grid connection type	3Φ / PE / N (neutral optional)
Max. AC output current @ 480 Vac	30.5 A
Rated output frequency	60 Hz
Output frequency range[2]	57-63 Hz
Power factor	>0.99 (±0.8 adjustable)
Current TRD @ rated load	< 3%
Max. fault current contribution (1 cycle RMS)	31 A (1.02 PU)
Max. OCPD rating	50 A
AC disconnection type	Load-rated AC switch
AC surge protection	Type II MOV
System	
Topology	Transformerless
Max. efficiency	98.5%
CEC efficiency	98.0%
Standby / night consumption	< 1 W
Environment	
Enclosure protection degree	NEMA Type 4X
Cooling method	Variable speed cooling fans
Operating temperature range	-22°F to 140°F / -30°C to 60°C
Non-operating temperature range[3]	-40°F to 158°F (-40°C to 70°C)
Operating humidity	0-100%
Operating altitude	13123 ft / 4000 m (derating 9843 ft / 3000 m)
Audible noise	< 60 dBA @ 1 m and 77°F (25°C)
Display and Communication	
User interface and display	LED indicators, Wi-Fi, and App
Inverter monitoring	SunSpec, Modbus RS485
Site-level monitoring	CPS FlexOM Gateway (1 per 32 inverters)
Modbus data mapping	CPS
Remote diagnostics / firmware upgrade functions	Standard / (with FlexOM Gateway)
Mechanical	
Dimensions (H × W × D)	Inverter: 15.95 × 15.75 × 7.87 in (405 × 400 × 200 mm) Wire Box: 10.24 × 15.75 × 7.87 in (260 × 400 × 200 mm)
Weight	Inverter: 48.5 lb (22 kg) Wire Box: 13.23 lb (6 kg)
Mounting / installation angle[4]	15 to 90° from horizontal (vertical or angled)
AC termination	Screw clamp (wire range: #8-#2 AWG CU/AL)
DC termination[5]	Screw clamp (wire range: #14-#8 AWG CU)
Fused string inputs (3 per MPPT)	20 A or 25 A fuses provided (fuse values up to 30 A acceptable)
Safety	
Certifications and standards	UL 1741-SA/SB Ed. 3, UL 1699B, UL1998, CSA-C22.2 NO.107.1-01, IEEE 1547-2018, FCC Part 15
Selectable grid standards	IEEE 1547a-2014, IEEE 1547-2018[6], CA Rule 21, ISO-NE, HECO
Smart-grid features	Volt-RideThru, Freq-RideThru, Ramp-Rate, Specified-PF, Volt-VAR, Freq-Watt, Vol-Watt
Warranty	
Standard	10 years
Extended terms	15 and 20 years

1) The sum of parallel-connected PV module short-circuit currents.
2) The "output voltage range" and "output frequency range" may differ according to the specific grid standard.
3) Storage temperature may impact battery life during long storage conditions.
4) Inverter Cover Accessory may be required for installation angles of 15 degrees or less.
5) Wire box only includes fuses and fuse holders on the positive polarity.
6) Firmware version 5.00 or later required.

RAIL SPECIFICATION SHEET

Tech Brief

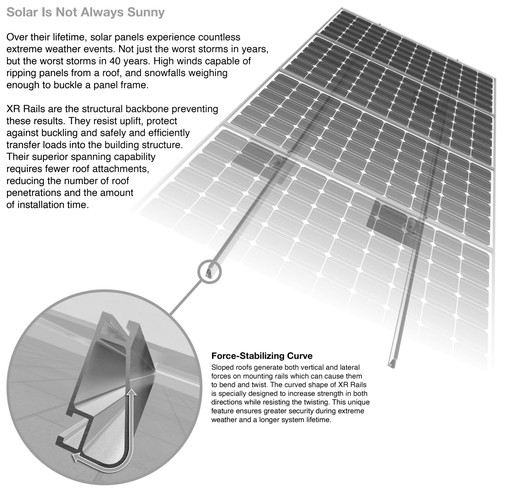
IRONRIDGE

XR Rail Family

Solar Is Not Always Sunny

Over their lifetime, solar panels experience countless extreme weather events. Not just the worst storms in years, but the worst storms in 40 years. High winds capable of ripping panels from a roof, and snowfalls weighing enough to buckle a panel frame.

XR Rails are the structural backbone preventing these results. They resist uplift, protect against buckling and safely and efficiently transfer loads into the building structure. Their superior spanning capability requires fewer roof attachments, reducing the number of roof penetrations and the amount of installation time.



Force-Stabilizing Curve
Sloped roofs generate both vertical and lateral forces on mounting rails which can cause them to bend and twist. The curved shape of XR Rails is specially designed to increase strength in both directions while resisting the twisting. This unique feature ensures greater security during extreme weather and a longer system lifetime.

Compatible with Flat & Pitched Roofs
XR Rails are compatible with FlashFoot and other pitched roof attachments.
IronRidge offers a range of tilt leg options for flat roof mounting applications.

Corrosion-Resistant Materials
All XR Rails are made of 6000-series aluminum alloy, then protected with an anodized finish. Anodizing prevents surface and structural corrosion, while also providing a more attractive appearance.

Tech Brief

XR Rail Family

The XR Rail Family offers the strength of a curved rail in three targeted sizes. Each size supports specific design loads, while minimizing material costs. Depending on your location, there is an XR Rail to match.

XR10

XR10 is a sleek, low-profile mounting rail, designed for regions with light or no snow. It achieves spans up to 6 feet, while remaining light and economical.

- 6' spanning capability
- Moderate load capability
- Clear & black anodized finish
- Internal splices available

XR100

XR100 is the ultimate residential mounting rail. It supports a range of wind and snow conditions, while also maximizing spans up to 10 feet.

- 10' spanning capability
- Heavy load capability
- Clear & black anodized finish
- Internal splices available

XR1000

XR1000 is a heavyweight among solar mounting rails. It's built to handle extreme climates and spans up to 12 feet for commercial applications.

- 12' spanning capability
- Extreme load capability
- Clear anodized finish
- Internal splices available

Rail Selection

The table below was prepared in compliance with applicable engineering codes and standards.* Values are based on the following criteria: ASCE 7-16, Gable Roof Flush Mount, Roof Zones 1 & 2e, Exposure B, Roof Slope of 8 to 20 degrees and Mean Building Height of 30 ft. Visit IronRidge.com for detailed certification letters.

Load		Rail Span					
Snow (PSF)	Wind (MPH)	4'	5' 4"	6'	8'	10'	12'
None	90	XR10		XR100		XR1000	
	120						
	140						
	160						
20	90						
	120						
	140						
	160						
30	90						
	160						
40	90						
	160						
80	160						
120	160						

*Table is meant to be a simplified span chart for conveying general rail capabilities. Use approved certification letters for actual design guidance.

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IDENTIFICATION STAMP
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REVIEWED FOR
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DATE: 04/28/2026

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MEP & FS / Sustainability / CxA
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Roseville, CA 95678
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Job #: 24-2747

REGISTERED PROFESSIONAL ENGINEER
RAMI S. ZEIDAN
No. E 16762
Exp. 9/30/26
ELECTRICAL
STATE OF CALIFORNIA

©

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5801 SUNDALE AVE.
BAKERSFIELD, CA 93309

CENTRAL VALLEY CONTINUATION HIGH SCHOOL CAMPUS
526 MANNEL AVENUE
SHAFTER, CA 93263

DRAWING SUBMITTAL SCHEDULE	
100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO: 22434-E-02

ELECTRICAL PLACARDS & SPEC SHEETS
PV-601

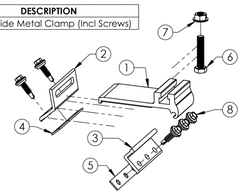
Autodesk Docs://KHSD_Central Valley Continuation HS/24-2451 Central Valley CHS_MEP_FP_T_R23.rvt
8/15/2025 8:57:04 AM

ATTACHMENT SPECIFICATION SHEET

Cut Sheet

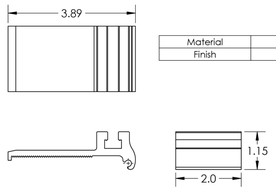
IRONRIDGE QuickMount® CorruSlide® Metal Clamp

PART NUMBER	DESCRIPTION
QM-CORR-01-M1	Corruslide Metal Clamp (Incl Screws)



ITEM NO.	DESCRIPTION
1	CORRUSLIDE-TOP-LONG
2	SLOT BRACKET-SIMPLIFIED MACHINING OPERATION
3	CORRUSLIDE-FLIPPER MACHINING OPERATION
4	EPDM GASKET SEAL
5	EPDM GASKET SEAL CORRUSLIDE FLIPPER
6	SS HEX HD CAP SCREW, FULL THREAD, 5/16-18UNC X 1.50 LONG
7	SS SERRATED FLANGE LOCK NUT, 5/16-18
8	1/4"-14 X 7/8" DP1/LAP W/VRT BLAZER STAINLESS CAP HEAD W/ SEALING WASHER

1) CORRUSLIDE-TOP-LONG



Material	Aluminum
Finish	Mill

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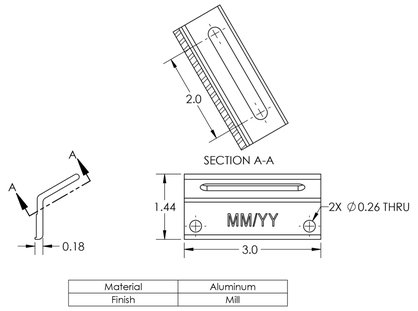
QM-CORR-01-M1 Cut Sheet Rev 1.0

Cut Sheet

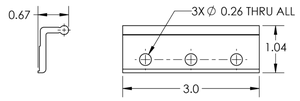
IRONRIDGE QuickMount® CorruSlide® Metal Clamp

2) SLOT BRACKET-SIMPLIFIED MACHINING OPERATION



Material	Aluminum
Finish	Mill

3) CORRUSLIDE-FLIPPER MACHINING OPERATION



Material	Aluminum
Finish	Mill

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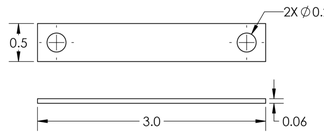
QM-CORR-01-M1 Cut Sheet Rev 1.0

Cut Sheet

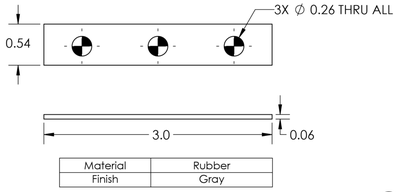
IRONRIDGE QuickMount® CorruSlide® Metal Clamp

4) EPDM GASKET SEAL



Material	Rubber
Finish	Gray

5) EPDM GASKET SEAL CORRUSLIDE FLIPPER



Material	Rubber
Finish	Gray

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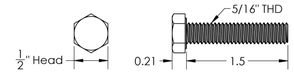
QM-CORR-01-M1 Cut Sheet Rev 1.0

Cut Sheet

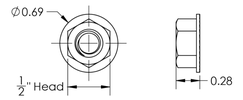
IRONRIDGE QuickMount® CorruSlide® Metal Clamp

6) SS HEX HD CAP SCREW, FULL THREAD, 5/16-18UNC X 1.50 LONG



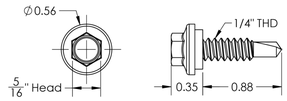
Material	Stainless Steel
Finish	Mill

7) SS SERRATED FLANGE LOCK NUT, 5/16-18



Material	Stainless Steel
Finish	Mill

8) 1/4"-14 X 7/8" DP1/LAP W/VRT BLAZER STAINLESS CAP HEAD W/ SEALING WASHER



Material	Stainless Steel
Finish	Mill

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QM-CORR-01-M1 Cut Sheet Rev 1.0

UFO SPECIFICATION SHEET

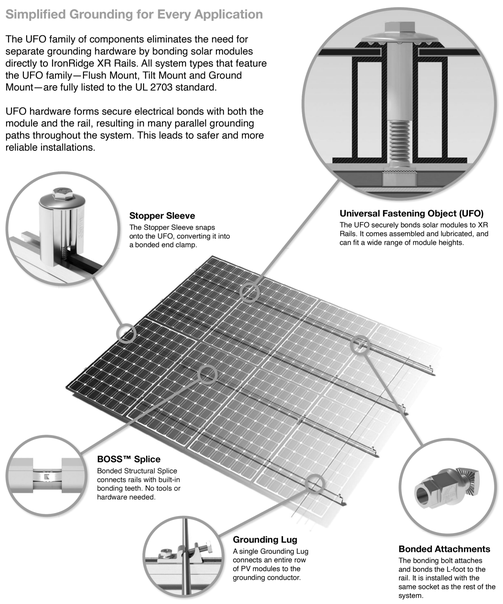
Tech Brief

IRONRIDGE UFO Family of Components

Simplified Grounding for Every Application

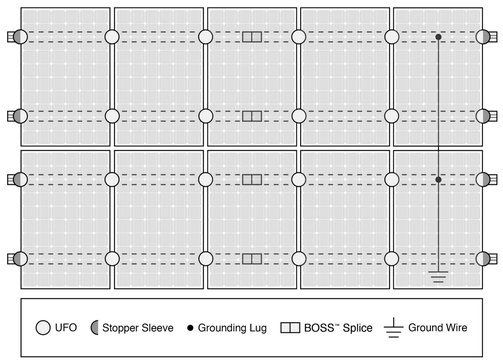
The UFO family of components eliminates the need for separate grounding hardware by bonding solar modules directly to IronRidge XR Rails. All system types that feature the UFO family—Flush Mount, Tilt Mount and Ground Mount—are fully listed to the UL 2703 standard.

UFO hardware forms secure electrical bonds with both the module and the rail, resulting in many parallel grounding paths throughout the system. This leads to safer and more reliable installations.



Tech Brief

System Diagram



♀ Approved Enphase microinverters can provide equipment grounding of IronRidge systems, eliminating the need for grounding lugs and field installed equipment ground conductors (EGC). A minimum of two microinverters mounted to the same rail and connected to the same Engage cable is required. Refer to installation manuals for additional details.

UL Certification

The IronRidge Flush Mount, Tilt Mount, and Ground Mount Systems have been listed to UL 2703 by Intertek Group plc.

UL 2703 is the standard for evaluating solar mounting systems. It ensures these devices will maintain strong electrical and mechanical connections over an extended period of time in extreme outdoor environments.

Go to IronRidge.com/UFO

Cross-System Compatibility			
Feature	**Flush Mount**	**Tilt Mount**	**Ground Mount**
XR Rails	✔	✔	XR1000 Only
UFO/Stopper	✔	✔	✔
BOSS™ Splice	✔	✔	N/A
Grounding Lugs	1 per Row	1 per Row	1 per Array
Microinverters & Power Optimizers	Enphase - M250-72, M250-60, M215-60, C250-72 Darfon - MIG240, MIG300, G320, G640 SolarEdge - P300, P320, P400, P405, P600, P700, P730		
Fire Rating	Class A	Class A	N/A
Modules	Tested or Evaluated with over 400 Framed Modules Refer to installation manuals for a detailed list.		

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RSD SPECIFICATION SHEET

APsmart

Raising the bar in innovative DC MLPE solar power systems

RSD-D

- Meets NEC 2017 & 2020 (690.12) requirements
- Executes rapid shutdown of system when Transmitter-PLC signal is absent
- Meets SunSpec requirements
- Dual-input channel

RSD-D meets SunSpec requirements, maintaining normal function by continually receiving a heartbeat signal from the APsmart Transmitter. The RSD-D executes rapid system shutdown when the Transmitter signal is absent. Users can manually execute rapid shutdown using Transmitter breaker switch.

> RSD-D TECHNICAL DATA

MODEL	RSD-D-15	RSD-D-20
INPUT DATA (DC)		
Range of Input Operating Voltage	8-65V Per Channel	
Max. Input Voltage	80V	
Maximum Cont. Input Current (Imax)	15A Per Channel	20A Per Channel
Maximum Short Circuit Current（Isc）	25A	
OUTPUT DATA (DC)		
Range of Output Operating Voltage	16-130V	
Max. Output Voltage	160V	
Maximum Cont. Output Current	15A	20A
Maximum System Voltage	1000V/1500V	
Maximum Series Fuse Rating	30A	
MECHANICAL DATA		
Operating Ambient Temperature Range	-40 °F to +167 °F (-40 °C to + 75 °C)	
Dimensions (without cable & connectors)	5.5" x 2" x 0.8"(140 mm x 50.6 mm x 20 mm)	
Cable Length	Input 500mm/Output 2200mm	
Cable Cross Section Size	TUV:4mm²/UL:12AWG	
Connector	Stäubli MC4 PV-KBT4&KST4 or Customize	
Enclosure Rating	NEMA Type 6P/IP68	
Over temperature protection	Yes	
FEATURES & COMPLIANCE		
Communication Compliance	PLC	
Safety Compliance	NEC 2017 & 2020 (690.12); UL1741; CSA C22.2 No. 330-17; IEC/EN62109-1	
EMC Compliance	FCC Part15; ICES-003	

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Rev1.5 2021-12-02

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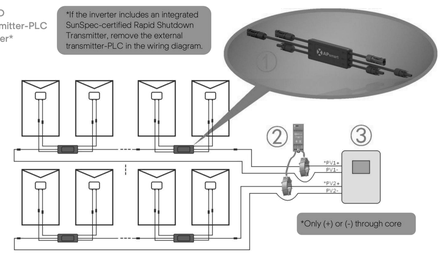
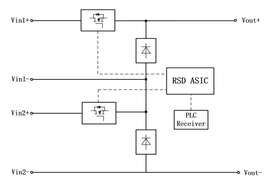
> RSD-D WIRING DIAGRAM

① RSD-D
② Transmitter-PLC
③ Inverter*

*If the inverter includes an integrated SunSpec-certified Rapid Shutdown Transmitter, remove the external transmitter-PLC in the wiring diagram.



> WORKING SCHEMATIC DIAGRAM



ORDERING INFORMATION	
426101	1500V UL/1000V TUV, 15A, 2.2m cable, Stäubli MC4 PV-KBT4&KST4
446101	1500V UL/1000V TUV, 20A, 2.2m cable, Stäubli MC4 PV-KBT4&KST4
4261xx*	15A, 2.2m cable, Customize connector
4461xx*	20A, 2.2m cable, Customize connector

*please see the RSD Series Ordering Information

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+1-866-374-8538 | support@APsmartGlobal.com | APsmartGlobal.com

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APP: 03-125726 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 04/28/2026

SGPA
ARCHITECTURE AND PLANNING
3111 CAMINO DEL RIO NORTH,
STUDIO 500
SAN DIEGO, CA 92108
619.297.0131
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1229 Pleasant Grove Blvd,
Roseville, CA 95678
p 916-771-0778
www.lpengineers.com
Job #: 24-2161

REGISTERED PROFESSIONAL ENGINEER
RAMI S. ZEIDAN
No. E 16762
Exp. 9/30/26
ELECTRICAL
STATE OF CALIFORNIA

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KERN HIGH SCHOOL DISTRICT
5801 SUNDALE AVE.
BAKERSFIELD, CA 93309

CENTRAL VALLEY
CONTINUATION HIGH SCHOOL CAMPUS
526 MANNEL AVENUE
SHAFTER, CA 93263

DRAWING SUBMITTAL SCHEDULE	
100% CONSTRUCTION DOCUMENTS	11/21/2025
DWG V2	02/27/2026
DWG V3	04/28/2026

PROJECT NO: 22434-E-02

SPEC SHEETS

PV-602

MODULE UL CERTIFICATE

ZERTIFIKAT ◆ CERTIFICATE ◆ 证书 RHRBE ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

Product Service

CERTIFICATE

No. Z2 114228 0003 Rev. 23

Holder of Certificate: **JA Solar Technology Co., Ltd.**
No. 123 Xinxing Road
055550 Ningjin County, Hebei Province
PEOPLE'S REPUBLIC OF CHINA

Certification Mark:

Product: **Crystalline Silicon Terrestrial Photovoltaic (PV) Modules**
Mono-Crystalline Silicon Photovoltaic Module

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition, the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the Testing, Certification, Validation and Verification Regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

Test report no.: 704062302133-28

Valid until: 2030-09-08

Date, 2025-09-09

(Zhulin Zhang)

TÜV SÜD Product Service GmbH • Certification Body • Ridlerstraße 65 • 80339 Munich • Germany

ZERTIFIKAT ◆ CERTIFICATE ◆ 证书 RHRBE ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

Product Service

CERTIFICATE

No. Z2 114228 0003 Rev. 23

Model(s):

JAM78D40-xxx/MB, xxx = 600 to 655 in steps of 5
JAM78D40-xxx/GB, xxx = 600 to 655 in steps of 5
JAM72D40-xxx/MB, xxx = 560 to 610 in steps of 5
JAM72D40-xxx/GB, xxx = 560 to 610 in steps of 5
JAM72D40-xxx/MB-US, xxx = 585 to 615 in steps of 5
JAM72D41-xxx/MB, xxx = 575 to 590 in steps of 5
JAM72D41-xxx/GB, xxx = 575 to 590 in steps of 5
JAM54D40-xxx/MB, xxx = 415 to 455 in steps of 5
JAM54D41-xxx/MB, xxx = 415 to 445 in steps of 5
JAM54D40-xxx/MR, xxx = 415 to 455 in steps of 5
JAM72D30-xxx/MB, xxx = 530 to 555 in steps of 5
JAM72D40-xxx/LB, xxx = 560 to 620 in steps of 5
JAM60D40-xxx/LB, xxx = 485 to 515 in steps of 5
JAM60D41-xxx/LB, xxx = 485 to 505 in steps of 5
JAM54D40-xxx/LB, xxx = 420 to 475 in steps of 5
JAM54D40-xxx/LR, xxx = 420 to 475 in steps of 5
JAM54D41-xxx/LB, xxx = 420 to 470 in steps of 5
JAM54D41-xxx/LR, xxx = 440 to 470 in steps of 5
JAM54D41-xxx/LR/AU, xxx = 440 to 470 in steps of 5
JAM72D30-xxx/LB, xxx = 555 to 570 in steps of 5
JAM72D42-xxx/LB, xxx = 590 to 655 in steps of 5
JAM66D42-xxx/MB, xxx = 540 to 600 in steps of 5
JAM66D42-xxx/MR, xxx = 540 to 600 in steps of 5
JAM66D43-xxx/MB, xxx = 565 to 580 in steps of 5
JAM60D42-xxx/LB, xxx = 500 to 545 in steps of 5
JAM66D45-xxx/LB, xxx = 580 to 650 in steps of 5
JAM66D45-xxx/LR, xxx = 580 to 650 in steps of 5
JAM66D46-xxx/LB, xxx = 685 to 740 in steps of 5
JAM72D40-xxx/HB, xxx = 590 to 605 in steps of 5
JAM54D40-xxx/HB, xxx = 440 to 450 in steps of 5
xxx is standing for rated output power at STC

Parameters:

Construction:	Framed, with Junction box, Cable and Connectors.
Test Laboratory:	Yangzhou Opto-Electrical Products Testing Institute Co., Ltd. No. 10 Kaifa West Road Yangzhou, Jiangsu, China
Safety Class:	Class II
Maximum System Voltage:	1500 V DC
Fire Safety Class:	Class C according to UL790
Production Facility(ies):	079395, 095903, 108746, 072092, 109998, 112017, 113943, 114922, 121678, 123101, 123430, 127131, 115500, 128635, 123846, 119213, 121550, 124451, 127728, 117684, 120210, 116996.

Tested according to:

IEC 61215-1:2021
EN IEC 61215-1:2021/AC:2021
IEC 61215-1-1:2021
EN IEC 61215-1-1:2021
IEC 61215-2:2021
EN IEC 61215-2:2021
IEC 61730-1:2023
IEC 61730-2:2023

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PROJECT NO: 22434-E-02

SPEC SHEETS

PV-603

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