GOLETA VALLEY LIBRARY ADA, BUILDING, AND SAFETY IMPROVEMENT (CIP 9130)

ISSUED FOR BID
OCTOBER 13th, 2025

CITY OF GOLETA

OWNERS: CITY OF GOLETA
500 N FAIRVIEW AVENUE, GOLETA, CA 93117

CIVIL AND STRUCTURAL ENGINEER: KPFF
700 SOUTH FLOWER STREET, SUITE 2000+2100
LOS ANGELES, CA 90017
(213) 418-0201

ARCHITECT: JEFFREY MILLER ARCHITECTURE AND DESIGN
516 N SEPULVEDA BLVD, SUITE 201
MANHATTAN BEACH, CA 90266
(310) 684-3550

MECHANIAL, ELECTRICAL, AND PLUMBING ENGINEERS: INTERFACE
601 S FIGUEROA STREET, SUITE 2750
LOS ANGELES, CA 90017
(213) 694-3434

LANDSCAPE: UPLA STUDIO
LOS ANGELES, CA
(424) 385-8721

FIRE ALARM, FIRE LIFE SAFETY, DISABLED ACCESS: JENSEN HUGHES
1000 WILSHIRE BOULEVARD, SUITE 250
LOS ANGELES, CA 90017
(213) 412-1400

ADDRESS: 500 N FAIRVIEW AVENUE, GOLETA, CA 93117

APN NO: 069-090-056

BASIS OF BEARING: THE BEARING OF N00°07'25" W ALONG THE CENTERLINE OF FAIRVIEW AVENUE AS SHOWN ON TRACT NO. 13 526, AS RECORDED IN MAP BOOK 150,
BLOCK: PAGES 77 & 78, WAS TAKEN AS THE BASIS OF BEARINGS FOR THE SURVEY.

OCCUPANCY: EXISTING TYPE A-3 , TYPE U AND TYPE B ; NO CHANGE IN OCCUPANCY

SPRINKLERED: YES

CONSTRUCTION TYPE: VB

FIRE RESISTIVE REQUIREMENTS:

PRIMARY STRUCTURAL FRAME	0
EXTERIOR BEARING WALLS	0
INTERIOR BEARING WALLS	0
NONBEARING EXTERIOR WALLS	0
NONBEARING INTERIOR WALLS	0
FLOOR CONSTRUCTION	0
ROOF CONSTRUCTION	0

APPLICABLE CODES:
2022 TITLE 24 CODE BATTERY AS MODIFIED BY SANTA BARBARA COUNTY
2010 ADA STANDARDS FOR ACCESSIBLE DESIGN AND CITY MUNICIPAL CODES
2022 SANTA BARBARA COUNTY FIRE CODE WITH AMENDMENTS
2022 CALIFORNIA ELECTRICAL CODE (CEC)
2022 CALIFORNIA MECHANICAL CODE (CMC)
2022 CALIFORNIA PLUMBING CODE (CPC)
2022 CALIFORNIA ENERGY CODE (CENC)
2022 CALIFORNIA HISTORICAL BUILDING CODE (CHBC)
2022 CALIFORNIA FIRE CODE (CFC)
2022 CALIFORNIA EXISTING BUILDING CODE (CEBC)
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CGBSC)
SANTA BARBARA COUNTY BUILDING CODE

ORDINANCE 25-01 AMENDMENTS TO BUILDING CODES
ORDINANCE 5170 AMENDMENTS TO FIRE CODES

DEFERRED SUBMITTALS

FIRE SPRINKLERS / FIRE ALARMS
HANDRAILS/GUARDRAILS
TOILET PARTITION SUPPORT STEEL

PROJECT SUMMARY

RENOVATION OF EXISTING SINGLE STORY BUILDING FOR:

1. ADA RESTROOM RENOVATIONS AND UPGRADES
2. MODERNIZATION AND REPLACEMENT OF HVAC SYSTEM
3. ADA PATH OF TRAVEL UPGRADES
4. LIFE SAFETY AND SECURITY UPGRADES
5. LED LIGHTING RETROFITS
6. DOORS/WINDOWS REPLACEMENTS AND UPGRADES
7. FASCIA REPAIR AND EXTERIOR PAINT

AREA SUMMARY

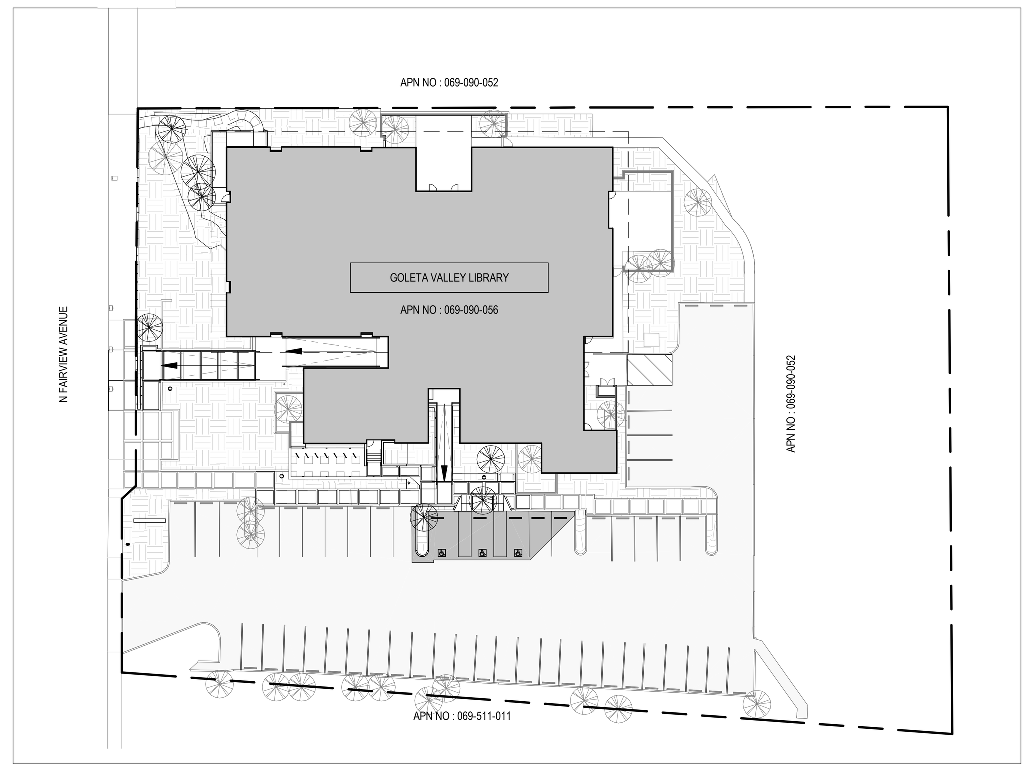
SITE AREA: 88,266 SF

BUILDING AREA: 15,475 SF

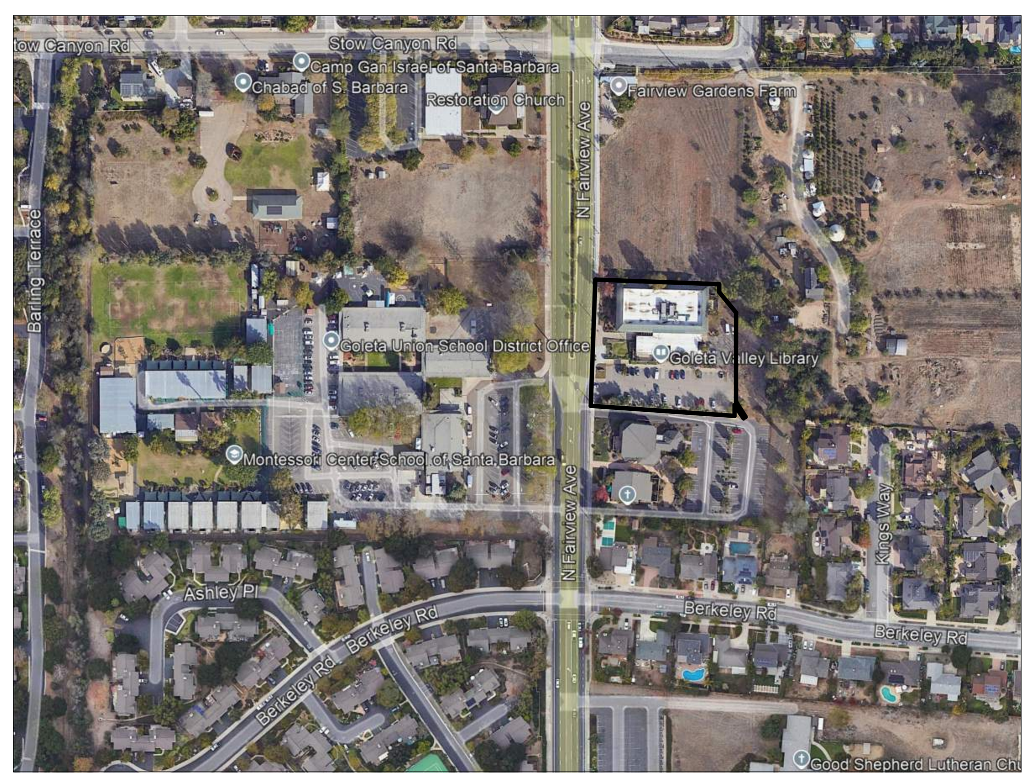
AREA OF MODIFICATION: 6,768 SF

REFER TO A010 FOR ADDITIONAL AREA INFORMATION

SITE MAP



VICINITY MAP



LICENSED ARCHITECT
JEFFREY MILLER
C-37366
01/31/2027
RENEWAL DATE
STATE OF CALIFORNIA

JM|A+D
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MANHATTAN BEACH, CA 90266
p 310.684.3550
e info@JMADstudio.com
LICENSE No. C-37366

SHEET NO.	SHEET NAME	100SD	100 DD	60 CD	90 CD	IFP	IFPR1	IFB
GENERAL								
A000	COVER PAGE	•	•	•	•	•	•	•
A001	PROJECT NOTES	•	•	•	•	•	•	•
A002	ABBREVIATIONS AND SYMBOLS	•	•	•	•	•	•	•
A003	MATERIAL AND NOTES	•	•	•	•	•	•	•
~~A004~~	~~MATERIAL AND NOTES~~				•	•	•	
A010	AREA DIAGRAMS AND SCOPE OF WORK	•	•	•	•	•	•	•
A011	ALLOWANCES AND ALTERNATES							•
A020	FIRE DEPARTMENT ACCESS DIAGRAM				•	•	•	•
A030	CODE AND EGRESS DIAGRAMS	•	•	•	•	•	•	•
A040	ADA DIAGRAMS	•	•	•	•	•	•	•
A041	ADA DIAGRAMS			•	•	•	•	•
A042	ADA DIAGRAMS			•	•	•	•	•
A043	ADA DIAGRAMS				•	•	•	•
A044	ADA SIGNAGE			•	•	•	•	•
A050	CAL GREEN CODE DOCUMENTATION			•	•	•	•	•
A051	CAL GREEN CODE DOCUMENTATION			•	•	•	•	•
A052	CAL GREEN CODE DOCUMENTATION			•	•	•	•	•
A053	CAL GREEN CODE DOCUMENTATION			•	•	•	•	•
A054	CERTIFICATE OF IMPLEMENTATION					•		•
CIVIL								
C0.01	TITLE SHEET	•	•	•	•	•	•	•
C1.00	SURVEY (FOR REFERENCE ONLY)			•	•	•	•	•
C1.01	SURVEY (FOR REFERENCE ONLY)				•		•	•
C1.02	SURVEY (FOR REFERENCE ONLY)				•		•	•
C1.10	EROSION CONTROL PLAN			•	•	•	•	•
C1.20	DEMOLITION PLAN	•	•	•	•	•	•	•
C1.30	GRADING PLAN	•	•	•	•	•	•	•
C1.50	UTILITY PLAN			•	•	•	•	•
C1.60	PAVING PLAN			•	•	•	•	•
C5.00	CIVIL DETAILS			•	•	•	•	•
C5.01	CIVIL DETAILS			•	•	•	•	•
LANDSCAPE								
L.101	PLANTING PLAN	•	•	•	•	•	•	•
L.102	PLANTING DETAILS		•	•	•	•	•	•
L.201	IRRIGATION PLAN	•	•	•	•	•	•	•
L.202	IRRIGATION DETAILS		•	•	•	•	•	•
L.301	LIGHTING AND FURNISHING PLAN		•	•		•		
ARCHITECTURE								
D100	SITE DEMOLITION PLAN	•	•	•	•	•	•	•
D200	DEMOLITION PLAN	•	•	•	•	•	•	•
D201	ROOF DEMOLITION PLAN							•
~~D300~~	~~EXISTING DOWNSPOUT LOCATION PLAN~~	•	•	•				
D400	DEMOLITION REFLECTED CEILING PLAN	•	•	•	•	•	•	•
D500	OVERALL BUILDING ELEVATION DEMOLITION DRAWINGS	•	•	•	•	•	•	•
D501	OVERALL BUILDING ELEVATION DEMOLITION DRAWINGS	•	•	•	•	•	•	•
A100	OVERALL SITE PLAN	•	•	•	•	•	•	•
A110	ENLARGED SITE PLAN@PRIMARY ENTRY	•	•	•	•	•	•	•
A111	ENLARGED SITE PLAN@SECONDARY ENTRY	•	•	•	•	•	•	•
A112	ENLARGED SITE PLAN@NEW EGRESS	•	•	•	•	•	•	•
A120	SITE SECTIONS & ELEVATIONS	•	•	•	•	•	•	•
A130	SITE DETAILS				•	•	•	•
A131	SITE DETAILS				•		•	•
A132	SITE DETAILS				•		•	•
A140	OVERALL SITE POWER PLAN				•		•	•
A200	OVERALL FLOOR PLAN	•	•	•	•	•	•	•
A201	ROOF PLAN	•	•	•	•	•	•	•
A210	FINISH PLAN	•	•	•	•	•	•	•
A220	POWER AND DATA PLAN	•	•	•	•	•	•	•
A230	SIGNAGE PLAN			•	•	•	•	•
A231	SIGNAGE DETAILS					•		•
A300	ENLARGED PLANS AND ELEVATION	•	•	•	•	•	•	•
A301	ENLARGED PLANS AND SECTIONS		•	•	•	•	•	•
A400	REFLECTED CEILING PLAN	•	•	•	•	•	•	•
A401	LIGHTING SCHEDULE			•	•	•	•	•
~~A402~~	~~INTEGRATED SYSTEM AND SPRINKLER PLAN~~			•				
A410	ENLARGED REFLECTED CEILING PLAN	•	•	•	•	•	•	•
A500	OVERALL BUILDING ELEVATION	•	•	•	•	•	•	•
A501	OVERALL BUILDING ELEVATION	•	•	•	•	•	•	•
A510	BUILDING SECTIONS	•	•	•	•	•	•	•
A520	ENLARGED ELEVATION AND WALL SECTIONS			•	•	•	•	•
A600	ENLARGED INTERIOR ELEVATION	•	•	•	•	•	•	•
A610	ENLARGED INTERIOR ELEVATION				•		•	•
A700	ENLARGED INTERIOR SECTIONS				•	•	•	•
A800	EXTERIOR STOREFRONT DETAIL		•	•	•	•	•	•
A801	EXTERIOR SLIDING DOOR DETAIL				•	•	•	•
A802	ROOFING DETAILS				•		•	
A803	ROOFING DETAILS				•		•	
A804	ROOFING DETAILS				•		•	
A805	ROOFING DETAILS				•		•	
A806	ROOFING DETAILS				•		•	
A807	ROOFING DETAILS				•		•	
A810	EXTERIOR ROOFING DETAILS							•
A811	ROOFING DETAILS							•
A812	ROOFING DETAILS							•
A813	ROOFING DETAILS							•
A900	DOOR SCHEDULE							•
A901	DOOR DETAILS							•
A902	DOOR DETAILS		•	•				•
A910	PARTITION TYPES	•	•	•	•	•	•	•
A911	PARTITION DETAILS	•	•	•	•	•	•	•
A912	PARTITION DETAILS	•	•	•	•	•	•	•
A920	CEILING DETAILS	•	•	•	•	•	•	•
A921	CEILING DETAILS							•
A930	RESTROOM DETAILS			•	•	•	•	•

SHEET NO.	SHEET NAME	100SD	100 DD	60 CD	90 CD	IFP	IFPR1	IFB
A950	MILLWORK DETAILS							•
STRUCTURAL								
S000	SHEET INDEX,ABBREVIATIONS AND SYMBOLS	•	•	•	•	•	•	•
S001	GENERAL STRUCTURAL NOTES	•	•	•	•	•	•	•
S002	GENERAL STRUCTURAL NOTES							•
S200	FIRST FLOOR PLAN	•	•	•	•	•	•	•
S201	ROOF PLAN	•	•	•	•	•	•	•
S600	TYPICAL CONCRETE DETAILS	•	•	•	•	•	•	•
S700	TYPICAL STEEL DETAILS	•	•	•	•	•	•	•
S800	TYPICAL WOOD DETAILS		•	•	•	•	•	•
MECHANICAL								
M001	SYMBOL LIST AND GENERAL NOTES - MECHANICAL		•	•	•	•	•	•
M002	SCHEDULES - MECHANICAL		•	•	•	•	•	•
M003	TITLE 24 - MECHANICAL			•	•	•	•	•
M004	TITLE 24 - MECHANICAL			•	•	•	•	•
MD200	FIRST FLOOR DEMOLITION PLAN - MECHANICAL		•	•	•	•	•	•
MD201	ROOF DEMOLITION PLAN - MECHANICAL		•	•	•	•	•	•
M200	FIRST FLOOT PLAN - MECHANICAL	•	•	•	•	•	•	•
M201	ROOF PLAN - MECHANICAL	•	•	•	•	•	•	•
M200	FIRST FLOOT PLAN - MECHANICAL	•	•	•	•	•	•	•
M201	ROOF PLAN - MECHANICAL	•	•	•	•	•	•	•
M500	DETAILS - MECHANICAL							•
PLUMBING								
P001	SYMBOL LIST AND GENERAL NOTES - PLUMBING		•	•	•	•	•	•
P002	SCHEDULES - PLUMBING		•	•	•	•	•	•
PD200	UNDERGROUND DEMOLITION PLAN - PLUMBING		•	•	•	•	•	•
PD201	FIRST FLOOR WASTE & VENT DEMOLITION PLAN - PLUMBING		•	•	•	•	•	•
PD202	FIRST FLOOR WATER DEMOLITION PLAN - PLUMBING		•	•	•	•	•	•
PD203	ROOF DEMOLITION PLAN - PLUMBING		•	•	•	•	•	•
P100	SITE PLAN - PLUMBING		•	•	•	•	•	•
P200	UNDERGROUND PLAN - PLUMBING		•	•	•	•	•	•
P201	FIRST FLOOR WASTE & VENT PLAN - PLUMBING	•	•	•	•	•	•	•
P202	FIRST FLOOR WATER PLAN - PLUMBING		•	•	•	•	•	•
P203	ROOF PLAN - PLUMBING	•	•	•	•	•	•	•
P400	RISER DIAGRAMS - PLUMBING			•	•	•	•	•
P500	DETAILS - PLUMBING				•	•	•	•
FIRE SUPPRESSION								
FS000	FIRE SPRINKLER SYSTEM COVER SHEET				•	•	•	
FS100	FIRE SPRINKLER SITE PLAN				•	•	•	
FS200	FIRE SPRINKLER FLOOR PLAN				•	•	•	
FS201	FIRE SPRINKLER CONCEALED SPACE PLAN				•	•	•	
FS300	FIRE SPRINKLER RISER DETAIL				•	•	•	
FS400	FIRE SPRINKLER SYSTEM DETAILS				•	•	•	
FS500	FIRE SPRINKLER AND HANGER DETAILS		•					
E001	SYMBOL LIST AND GENERAL NOTES - ELECTRICAL			•	•	•	•	•
E002	LUMINAIRE SCHEDULE - ELECTRICAL			•	•	•	•	•
E003	TITLE 24 - ELECTRICAL			•	•	•	•	•
E004	TITLE 24 - ELECTRICAL			•	•	•	•	•
E005	TITLE 24 - ELECTRICAL				•	•	•	•
E006	TITLE 24 - ELECTRICAL							•
E100	OVERALL SITE PLAN - ELECTRICAL	•	•	•	•	•	•	•
ED100	SITE DEMOLITION PLAN - ELECTRICAL	•	•	•	•	•	•	•
ED200	FIRST FLOOR DEMOLITION PLAN - ELECTRICAL		•	•	•	•	•	•
ED201	ROOF DEMOLITION PLAN - ELECTRICAL		•	•	•	•	•	•
E200	FIRST FOOR PLAN - LIGHTING		•	•	•	•	•	•
E201	FIRST FLOOR PHOTOMETRIC CALCULATION-LIGHTING				•		•	•
E300	FIRST FOOR PLAN - POWER		•	•	•	•	•	•
E301	ROOF PLAN - POWER		•	•	•	•	•	•
E400	ENLARGED PLANS - ELECTRICAL	•	•	•	•	•	•	•
E501	SINGLE LINE DIAGRAMS - ELECTRICAL	•	•	•	•	•	•	•
E601	SCHEDULES - ELECTRICAL		•	•	•	•	•	•
E700	DETAILS ELECTRICAL		•	•	•	•	•	•
TECHNOLOGY								
T001	SYMBOL LIST AND GENERAL NOTES - TECHNOLOGY		•	•	•	•	•	•
TD200	FIRST FLOOR DEMOLITON PLAN - TECHNOLOGY		•	•	•	•	•	•
T200	FIRST FLOOR PLAN - TECHNOLOGY		•	•	•	•	•	•
T300	ENLARGED PLANS AND SECTIONS - TECHNOLOGY		•	•	•	•	•	•
T500	DETAILS - TECHNOLOGY		•	•	•	•	•	•
INTEGRATED SYSTEM								
IS-000	INTEGRATED SYSTEMS - COVER SHEET		•		•	•	•	
IS-100	INTEGRATED SYSTEMS - SITE PLAN				•	•	•	
IS-200	INTEGRATED SYSTEMS - FLOOR PLAN				•	•	•	
IS-300	INTEGRATED SYSTEMS - RISER DIAGRAM		•		•	•	•	
IS-400	INTEGRATED SYSTEM DETAILS				•	•	•	
IS-401	INTEGRATED SYSTEM DETAILS							

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GENERAL NOTES

GENERAL NOTES

1. THIS PROJECT ENTAILS THE SELECTIVE DEMOLITION AND RENOVATION OF THE GOLETA PUBLIC LIBRARY LOCATED AT 500 N FAIRVIEW AVENUE, GOLETA, CA 93117.
2. THESE DRAWINGS ARE A COMPONENT OF THE CONTRACT DOCUMENTS, WHICH ALSO INCLUDE THE CONTRACTOR'S AGREEMENT, GENERAL AND SPECIAL CONDITIONS, ADDENDA, AND SPECIFICATIONS.
3. UNLESS EXPLICITLY NOTED OTHERWISE, THE PROVISIONS SET FORTH IN AIA DOCUMENT A201-2017 "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION" SHALL BE UNDERSTOOD TO ESTABLISH A BASELINE REASONABLE STANDARD OF CARE FOR THE PROJECT.
4. THE CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE CONTRACT DOCUMENTS AND PROJECT SITE PRIOR TO COMMENCING CONSTRUCTION.
5. THE COMPONENTS OF THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND NO SINGLE DOCUMENT GOVERNS. WHERE A DISCREPANCY IS DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING, REQUESTING CLARIFICATION.
6. TO THE EXTENT REASONABLY POSSIBLE, THE CONTRACTOR SHALL REQUEST CLARIFICATIONS THROUGH THE RFI PROCESS WITH SUFFICIENT TIME TO ALLOW REVIEW AND RESPONSE.
7. RFI'S SHALL GENERALLY BE RESPONDED TO IN FIVE (5) WORKING DAYS. IF AN RFI REQUIRES MORE TIME, THE ARCHITECT SHALL NOTIFY THE CONTRACTOR IN WRITING AND PROVIDE A SCHEDULE FOR RESPONSE.
8. REQUIRED SUBMITTALS FOR THE PROJECT ARE NOTED IN PART 1 OF EACH SPECIFICATION. THE CONTRACTOR SHALL PREPARE A SUBMITTAL REGISTER. THE SUBMITTAL REGISTER IS TO BE REVIEWED IN THE STANDING OWNER, ARCHITECT, CONTRACTOR (OAC) MEETINGS WITH THE PROJECT SCHEDULE, WITH ANTICIPATED DATES OF SUBMISSION TO THE DESIGN TEAM. SUBMIT SCHEDULES FOR ARCHITECTS' ACTION PRIOR TO COMMENCING WORK.
9. THE CONTRACTOR SHALL EXHAUSTIVELY REVIEW AND ACTION SUBMITTALS PRIOR TO TRANSMITTING TO THE ARCHITECT. SUBMITTALS THAT HAVE NOT BEEN PROPERLY CHECKED WILL BE RETURNED WITHOUT REVIEW.
10. SUBMITTALS SHALL GENERALLY BE RESPONDED TO IN TEN (10) WORKING DAYS. IF ASUBMITTAL REQUIRES MORE TIME, THE ARCHITECT SHALL NOTIFY THE CONTRACTOR IN WRITING AND PROVIDE A SCHEDULE FOR RESPONSE.
11. SHOULD A SUBMITTAL REGISTER AND SCHEDULE NOT BE RECEIVED BY THE ARCHITECT, THE ARCHITECT, AND BY EXTENSION, ENGINEERS AND CONSULTANTS SHALL NOT BE REQUIRED TO RETURN THE SUBMITTALS WITHIN THE TIMEFRAME NOTED ABOVE.
12. SHOULD THE CONTRACTOR SEND SUBMITTALS OUT OF SEQUENCE OR LATE, REQUIRING OVERTIME REVIEW FROM THE DESIGN TEAM TO FACILITATE THE CONSTRUCTION SCHEDULE, THE COSTS OF REVIEW SHALL BE BORNE BY THE CONTRACTOR AT TWO TIMES THE ARCHITECT'S CURRENT BILLING RATES.
13. THE CONTRACTOR SHALL MAINTAIN A SET OF APPROVED FINISH SAMPLES ON THE JOBSITE AT ALL TIMES.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HORIZONTAL AND VERTICAL CONTROLS. A PLAN IDENTIFYING BENCHMARKS, WORKPOINTS, AND OTHER DATUMS ON THE JOBSITE AT ALL TIMES AND SUBMITTED FOR THE ARCHITECT'S INFORMATION.
15. WHERE THE EXISTING CONDITIONS DIFFER FROM THE DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING.
16. PLAN DIMENSIONS ARE TO FACE OF FINISH U.N.O.. SYMMETRICAL AREAS DIMENSIONED ONE SIDE ONLY ARE UNDERSTOOD AS OPPOSITE HAND.
17. ARCHITECTURE DRAWINGS GOVERN LOCATIONS OF ALL DEVICES. CONSULTANT DRAWINGS GOVERN QUANTITY AND TYPE.
18. GRID LAYOUT AND LOCATION OF LIGHT FIXTURES, DIFFUSERS AND CEILING MOUNTED DEVICES ON THE ARCHITECTURAL REFLECTED CEILING DRAWINGS GOVERN OVER ELECTRICAL, SECURITY, TELECOM AND MECHANICAL DRAWINGS. QUANTITY GOVERNED BY MEP.
19. PLAN DIMENSIONS ARE TO FACE OF FINISH, U.O.N. SYMMETRICAL AREAS DIMENSIONED ONE SIDE ONLY WITH OTHER SIDE OPPOSITE HAND, UNO. PARTITIONS SHOWN ON COLUMN LINE ARE TO BE CENTERED ON COLUMN LINE, U.O.N.
20. REFER TO ELECTRICAL DRAWINGS FOR LIGHTING FIXTURE TYPES, SMOKE DETECTORS, SPEAKERS AND EXIT SIGN SIZE AND TYPES.|
21. PROJECT DATUM IS 1ST FLOOR = 0'-0" = NORTH AMERICAN VERTICAL DATUM (NAVD) 106'-9".
22. ALL FLOOR ELEVATIONS ARE REFERENCE FLOOR ELEVATIONS
23. RFE IS TOP OF STRUCTURAL SLAB UNLESS FINISH MATERIAL (TILE, STONE, WOOD, ETC) IS THICKER THAN 1/2". RFE IS TOP OF FINISH FLOOR IF FINISH MATERIAL IS THICKER THAN 1/2".
24. CONCRETE HOUSEKEEPING PADS ARE SHOWN WITH THE MECHANICAL, ELECTRICAL, PLUMBING, TELECOMMUNICATIONS, AUDIO/VISUAL AND SECURITY EQUIPMENT.
25. RATED PARTITIONS TO OFFSET AS REQUIRED TO ENGAGE FIRE OR FIRE / SMOKE DAMPERS AS REQUIRED AND DIAGRAMMATICALLY SHOWN ON DETAIL.
26. R.C.P'S INDICATE LOCATION OF SPRINKLER HEADS IN PUBLIC SPACES ONLY. CONTRACTOR RESPONSIBLE FOR MEETING ALL QUANTITY AND CODE REQUIREMENTS.
27. SIGNAGE LOCATIONS AS SHOWN ON DRAWINGS. CONTRACTOR RESPONSIBLE FOR PROVIDING BACKING AS REQUIRED TO SUPPORT SIGNAGE.
28. REFER TO STRUCTURAL DRAWINGS' REINFORCING SCHEDULE FOR ARCHITECTURAL CONCRETE CURBS.
29. THE CONTRACTOR SHALL NOT USE RED CHALK, PERMANENT MARKER, OR ANY OTHER PERMANENTLY STAINING MARKINGS ON EXISTING COMPONENTS TO REMAIN, OR THAT WILL BE EXPOSED TO VIEW.
30. THE CONTRACTOR SHALL INSTALL ALL WORK IN A PROFESSIONAL MANNER WITH CLASS A WORKMANSHIP.
31. WORK SHALL BE INSTALLED TRUE, LEVEL, AND UNDAMAGED IN CONFORMANCE WITH THE CONTRACT DOCUMENTS.
32. SHOULD THE ARCHITECT REJECT WORK AS NON-CONFORMING TO THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL PROMPTLY REMOVE AND REPLACE IT WITH NO COST OR EXTENSION TO SCHEDULE, OR SUBMIT A SUBSTITUTION REQUEST UNDER 01 60 00 "PRODUCT REQUIREMENTS" FOR ARCHITECT'S ACTION.
33. THE ARCHITECT SHALL REVIEW NON-CONFORMING WORK AS A SUBSTITUTION AFTER AWARD OF BID AND MAKE RECOMMENDATIONS TO THE OWNER REGARDING ACCEPTANCE. THE ACCEPTANCE OF NON-CONFORMING WORK IS AT THE SOLE DISCRETION OF THE OWNER.
34. IF ADDITIONAL DESIGN SERVICES ARE NEEDED FOR THE DETERMINATION OF THE ACCEPTABILITY OF NON-CONFORMING WORK OR ADDITIONAL DRAWINGS AND DETAILS TO IMPLEMENT NON-CONFORMING WORK, THE COSTS SHALL BE BORNE BY THE CONTRACTOR AT THE ARCHITECT'S CURRENT HOURLY RATES NOTED.
35. DO NOT SCALE PRINTED DRAWINGS. DIGITAL DRAWINGS MAY BE SCALED BY PROGRAMS WITH THE ABILITY TO DIMENSION PDF'S. DISCREPANCIES SHALL BE REVIEWED IN THE OAC PRIOR TO PROCEEDING WITH WORK.

PLANNING AND ZONING NOTES

1. PROJECT IS NOT REGISTERED AS A HISTORIC LANDMARK, HOWEVER, THE EXTENT OF EXTERIOR ALTERATION IS LIMITED TO THE EXTENT SHOWN IN THE DRAWINGS. OVER EXCAVATION OF MAY TRIGGER ADDITIONAL REQUIREMENTS FOR STORM WATER MITIGATION.
2. IF ADDITIONAL DEMOLITION BEYOND WHAT IS SHOWN IN DRAWINGS IS NEEDED THE CONTRACTOR SHALL SUBMIT A DEMOLITION DRAWING SHOWING THE FULL EXTENT OF DEMOLITION REQUIRED FOR ARCHITECT'S ACTION.
3. REFER TO A010 FOR ADDITIONAL PLANNING AND ZONING REQUIREMENTS.

FIRE PROTECTION NOTES

1. A NEW SPRINKLER SYSTEM AND FIRE HYDRANT ARE INCLUDED IN THIS SCOPE OF WORK.
2. THE CONTRACTOR SHALL PREPARE DEFERRED SUBMITTALS NECESSARY FOR THE SUCCESSFUL IMPLEMENTATION OF THE WORK.
3. THE BACK FLOW PREVENTER SHALL BE MONITORED AND INCLUDE TAMPER RESISTANT PROVISIONS.
4. UPON AWARD OF THE FIRE ALARM AND FIRE SUPPRESSION SPECIALTY CONTRACTORS, THE CONTRACTOR SHALL SCHEDULE A MEETING WITH FIRE INSPECTOR, ARCHITECT AND FIRE SUPPRESSION/FIRE ALARM SUB CONTRACTORS PRIOR TO COMMENCING WORK. THE MEETING AGENDA SHALL INCLUDE LOCATION OF PANELS, KNOX BOXES, MONITORING AND CONNECTIVITY, LOCATION OF FIRE EXTINGUISHERS EXTENT OF FIRE LANE AND ANY RELEVANT ITEMS THAT REQUIRE DISCUSSION/ALIGNMENT WITH THE AUTHORITIES HAVING JURISDICTION.
5. A RECORD SUBMITTAL SHALL BE TENDERED AFTER THE MEETING SHOWING THE LOCATION OF ALL SYSTEM COMPONENTS.
6. ALL SPRINKLER HEADS IN PUBLIC SPACES AND OFFICES SHALL BE CONCEALED IN FINISH SELECTED BY THE ARCHITECT.
7. SURFACE MOUNTED FIRE EXTINGUISHER CABINETS SHALL NOT BE PERMITTED. REFER TO SPECIFICATIONS FOR MODEL INFORMATION. THE QUANTITY AND LOCATION SHALL BE DETERMINED IN CONJUNCTION WITH THE INSPECTOR. THE CONTRACTOR SHALL CARRY A REASONABLE ALLOWANCE FOR FIRE EXTINGUISHERS AND FIRE EXTINGUISHER CABINETS.
8. REFER TO SHEET A020 AND THE FIRE PROTECTION/FIRE ALARM DRAWINGS FOR ADDITIONAL NOTES AND REQUIREMENTS.

CODE AND EGRESS NOTES

1. EGRESS MAINTAINED AT ALL TIMES. IF EGRESS WILL BE BLOCKED AT ANY POINT DURING CONSTRUCTION, THE CONTRACTOR SHALL PREPARE AN EGRESS PLAN SHOWING THE PHASED LOCATION OF EXITS TO BE MAINTAINED ON SITE, POSTED NEAR THE ENTRANCE.
2. REFER TO A030 FOR A CODE COMPLIANCE DIAGRAM,

DISABLED ACCESS NOTES

1. THE RENOVATION SHALL BE FULLY COMPLIANT WITH THE AMERICAN DISABILITIES ACT AND CHAPTER 11B OF THE CALIFORNIA BUILDING CODE.
2. THE DRAWINGS REFLECT THE EXTENT OF REQUIRED WORK BASED ON THE INFORMATION AVAILABLE TO THE DESIGN TEAM AND REVIEW WITH THE AUTHORITIES HAVING JURISDICTION. SHOULD ADDITIONAL WORK BE REQUIRED THROUGH THE INSPECTOR, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND OWNER IDENTIFYING THE COMPLIANCE REQUIREMENT, EXTENT AND COST OF WORK AND ANY SCHEDULE DELAYS PRIOR TO COMMENCING ADDITIONAL WORK.
3. THE OWNER SHALL NOT BE RESPONSIBLE FOR THE COST OF WORK PERFORMED WITHOUT BEING NOTIFIED FIRST.
4. REFER THE A040 SERIES FOR ACCESSIBLE DIAGRAMS AND ADDITIONAL NOTES.

GREEN BUILDING NOTES

1. THE PROJECT IS NOT PURSUING ANY GREEN BUILDING CERTIFICATIONS BEYOND CODE COMPLIANCE.
2. THE PROJECT SHALL MEET THE CRITERIA OF CALGREEN AS NOTED IN THE DRAWINGS AND REQUIRED BY CODE.
3. THE CONTRACTOR SHALL BEAR THE COST OF COMMISSIONING SYSTEMS AS REQUIRED BY CALGREEN.
4. REFER TO A050 SERIES OF DRAWINGS FOR ADDITIONAL CRITERIA.

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	100% DESIGN DEVELOPMENT	22 NOV 2024
	60% CONSTRUCTION DOCUMENT	07 MAR 2025
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Seal & Signature:

LICENSED ARCHITECT
JEFFREY MILLER
C-37366
01/31/2027
RENEW
STATE OF CALIFORNIA

Sheet Name:

PROJECT NOTES

Project No.:	Sheet No.:
24.05	A001
Drawn By: Author	
Checked By: Checker	
Scale: 12" = 1'-0"	

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ABBREVIATIONS

REFER TO CONSULTANT DRAWINGS FOR SPECIFIC NOTES, ABBREVIATION AND LEGENDS

A/C	Air Conditioning
AC	Ashphaltic Concrete
A/V	Audio Visual
ACST	Acoustical
ACT	Acoustical Ceiling Tile
AD	Area Drain
ADDL	Additional
ADJ	Adjacent
ADR	Access Door
AF	Access Floor
AFF	Above Finished Floor
AGGR	Aggregate
AHU	Air Handling Unit
ALS	Assisted Listening System
ALT	Alternate
ALUM	Aluminum
ANOD	Anodized
APPROX	Approximate(ly)
APT	Apartment
ARC	Architectural Concrete
ARCH	Architect(ural)
AUTO	Automatic
AUX	Auxiliary
AVG	Average
B/	Bottom of
BD	Board
BCR	Begin Curve Return
BEV	Beveled
BG	Bumper Guard
BLDG	Building
BLKG	Block(ing)
BM	Beam
BMK	Benchmark
BMP	Best Management Practices
BOC	Bottom of Curb
BOMA	Bldg. Owners and Managers Assoc.
BOS	Bottom on Stairs
BR	Bedroom
BRK	Brick
BRZ	Bronze
BSMT	Basement
BS	Brass
BTU	British Thermal Unit(s)
BW	Back of Walk
CAP	Capacity
CB	Catch Basin
CCTV	Closed Circuit Television
CF	Curb Face
CFM	Cubic Feet Per Minute
CG	Corner Guard(s)
CI	Cast Iron
CJ	Control Joint
CL	Center Line
CLG	Ceiling
CLG HT	Ceiling Height
CLO	Closet
CLR OPNG	Clear Opening
CMU	Concrete Masonry Unit(s)
CO	Cleanout
COL	Column
CONC	Concrete
CONF	Conference
CONN	Connect(ion)
CONSTR	Construction
CONT	Continuous / Continue
CONV	Convector
CORR	Corridor
CPOT	Continuous Path Of Travel
CPT	Carpet(ed)
CSK	Countersink / Countersunk
CSWK	Casework
CT	Ceramic Tile
CTR	Center(ed)
CU	Cubic
CW	Cold Water
DB	Decibel
DBL	Double
DD	Deck Drain
DEG	Degree(s)
DEPT	Department
DET	Detail(s)
DF	Drinking Fountain
DH	Double Hung
DIA	Diameter
DIAG	Diagonal
DIFF	Diffuser(s)
DIM	Dimension(s)
DISP	Dispenser
DIV	Divide / Division
DL	Dead Load
DMPF	Dampproofing
DMPR	Damper
DN	Down
DP	Drainage Panel
DR	Dining Room
DRP	Drapery
DW	Domestic Water
DWG	Drawing(s)
DWTR	Dumbwaiter
EA	Each
EC	Exposed Construction
EC	Elastomeric Coating
ECR	End of Curve return
EG	Edge of Gutter
EIFS	Exterior Insulated Finish System
EJ	Expansion Joint
EL	Elevation (Grade)
ELAST	Elastomeric
ELEC	Electric(al)
ELEC CL	Electric Closet
ELEV	Elevator
ELEV	Elevation (Bldg)
EM	Entrance Mat
EMER	Emergency
ENCL	Enclosure / Enclose(d)
ENTR	Entrance
EOS	Edge of Slab
EQ	Equal
EQUIP	Equipment
ESC	Escalator
EW	Each Way
EWC	Electric Water Cooler
EXH	Exhaust
EXIST	Existing
EXP	Exposed
EXPN	Expansion
EXT	Exterior

F	Fahrenheit
FA	Fire Alarm
FAF	Fluid Applied Flooring
FAAP	Fire Alarm Annunciator Panel
FAB	Fabric
FAI	Fresh Air Intake
FD	Floor Drain
FDC	Fire Department Connection
FDMPR	Fire Damper
FDTN	Foundation
FE	Fire Extinguisher
FF	Finished FLoor
FG	Finished Grade
FEC	Fire Extinguisher Cabinet
FH	Fire Hydrant
FHC	Fire Hose Cabinet
FHR	Fire Hose Rack (Reel)
FIN	Finish(ed)
FIN FL	Finish Floor
FIN GR	Finish Grade
FLEX	Flexible
FL	Flow Line
FLH	Flashing
FLMT	Flush Mounted
FLR	Floor(s)
FLS	Floor Sealer
FLUOR	Fluorescent
FO	Finished Opening
FP	Fireproofing
FPM	Feet per Minute
FR	Fire Retardant / Rating / Resist.
FRM	Frame
FRTW	Fire Retardant Treated Wood
FS	Full Size
FSS	Fire Stopping System
FSE	Food Service Equipment
FSP	Fire Standpipe
FT	Feet (Foot)
FTG	Footing
FU	Fixture Units
FW	Fire Water
FWP	Fabric Wrapped Panel
G	Gas
GA	Gauge
GAL	Gallon(s)
GALV	Galvanized
GFRC	Glass Fiber Reinforced Concrete
GFRG	Glass Fiber Reinforced Gypsum
GI	Galvanized Iron
GL	Glass
GL BLK	Glass Block
GND	Ground
GPH	Gallons per Hour
GPM	Gallons per Minute
GRD	Grade
GRL	Grille
GWB	Gypsum Wallboard
GV	Gate Valve
HB	Hose Bib
HD	Head
HDPE	High Density Polyethylene
HDW	Hardware
HEX	Hexagon(al)
HM	Hollow Metal
HNDRL	Handrail
HO	Hold Open
HORIZ	Horizontal
HPT	High Point
HR	Hour(s) (Fire Resistance Rating)
HT	Height
HVAC	Heating, Ventilating, Air Conditioning
HWY	Highway
ID	Inside Diameter
IDF	Intermediate Distribution Facility
INCL	Include(d) / Inclusive / Including
INFO	Information
INS	Insulation / Insulate(d)
INT	Interior
INV	Invert
JC	Janitor Closet
JF	Joint Filler
JG	Joint Gasket
JT	Joint
KD	Knockdown
KIT	Kitchen
KO	Knockout
KPL	Kickplate
/	Angle
LAB	Laboratory
LAM	Laminate(d)
LAV	Lavatory
LBS	Pound(s)
LD	Linear Diffuser
LH	Left Hand
LIN	Linear
LONG	Longitudinal
LPT	Low Point
LR	Living Room
LTG	Lighting
LVR	Louver(ed)
MACH	Machine
MAINT	Maintain / Maintenance
MATL	Material
MAX	Maximum
MB	Metal Base
MDF	Main Distribution Facility
MECH	Mechanical
MED	Medium
MEZZ	Mezzanine
MFR	Manufacturer
MH	Manhole
MIN	Minimum
MISC	Miscellaneous
ML	Metal Lath
ML WK	Millwork
MLDG	Molding
MO	Masonry Opening
MP	Metal Panel
MTD	Mounted
MTL	Metal
MUL	Mullion

N	North
NA	Not Applicable
NC	Noise Criteria
NIC	Not in Contract
NO	Number
NOM	Nominal
NRC	Noise Reduction Coefficient
NTS	Not to Scale
OA	Outside Air
OC	On Center
OD	Outside Diameter
OF	Outside Face
OFD	Overflow Drain
OFF	Office
OH DR	Overhead Coiling Door
OPH	Opposite Hand
OPNG	Opening
OPP	Opposite
OPR	Operating / Operable
ORD	Overflow Roof Drain
OZ	Ounce
PA	Public Address
PAR	Parallel
PART	Partial
PAV	Pavers
PB	Particle Board
PCC	Precast Concrete
PERF	Perforated
PERP	Perpendicular
PIV	Post Indicator Valve
PL	Plastic Laminate
PLA	Plaster
PLBG	Plumbing
PLYWD	Plywood
PNEU	Pneumatic
POC	Point of Connection
POL	Polished
PR	Pair
PRC	Point of reverse Curve
PRV	Pressure Reducing Valve
PREFAB	Prefabricate(d)
PROJ	Project(s)
PROP	Property
PSF	Pounds per Square Foot
PSI	Pounds per Square Inch
PT	Paint(ed)
PTN	Partition
PVC	Polyvinyl Chloride
PVG	Paving
PWR	Power
QT	Quarry Tile
QTY	Quantity
R	Riser
RA	Return Air
RAD	Radius
RB	Resilient Base
RC	Reinforced Concrete
RCIP	Rectangular Cast Iron Pipe
RCP	Reflected Ceiling Plan
RD	Roof Drain
RECPT	Receptacle
RECT	Rectangle
REF	Reference
REFR	Refrigerator
REG	Register
REINF	Reinforce(d, -ing, -ment)
REQD	Required
REV	Revised / Revision
RF	Resilient Flooring
RFA	Roofing Accessories
RH	Right Hand
RM	Room
RMX	Resin Matrix
RND	Round(ed)
RO	Rough Opening
ROT	Rotated
ROW	Right of Way
RPM	Revolutions per Minute
RR	Railroad
RS	Roofing System
RW	Right of Way
S=	Slope Equals
SA	Supply Air
SAN	Sanitary
SB	Splash Block
SCHED	Schedule(d)
SD	Storm Drain
SE	Sealant
SECT	Section
SHR	Shower
SHT	Sheet
SHTHG	Sheathing
SIM	Similar
SLDG	Slide / Sliding
SMR	Sheet Metal Roofing
SPC	Synthetic Polymer Countertop
SPEC	Specification(s)
SQ	Square
SQ FT	Square Foot / Feet
SSMH	Storm Drain Manhole
STL ST	Stainless Steel
ST	Stone
STC	Sound Transmission Class
STD	Standard
STL	Steel
STOR	Storage
STRUCT	Structure / Structural
SURF MTD	Surface Mounted
SUSP	Suspend(ed) / Suspension
SWBD	Switchboard
SYMM	Symmetrical
T	Tread
T&G	Tongue and Groove
T/	Top of
TA	Toilet Accessory(ies)
TC	Traffic Coating
TD	Trench Drain
TEL	Telephone
TEMP	Temperature
TER	Terrazzo
TG	Top of Grate
THK	Thick(ness)
THRES	Threshold
TOC	Top of Curb
TOPO	Topography Map
TOS	Top of Stairs
TRANS	Transom
TS	Traffice Signal
TSB	Traffic Signal Box
TV	Television
T.W.	Tread Width
TYP	Typical
TV	Televisior

U/C	Undercut
UNFIN	Unfinished
UNO	Unless Noted Otherwise
UPS	Uninterrupted Power Supply
VAC	Vacuum
VERT	Vertical
VEST	Vestibule
VCP	Vitrified Clay Pipe
VIF	Verify in Field
VLT	Vault
VNR / VE	Veneer
VOL	Volume
W	Water
W/	With
W/O	Without
WB	Wood Base
WC	Wheel Chair
WCV	Wall Covering
WD	Wood
WDF	Wood Door and Frame
WH	Wall Hydrant
WI	Wrought Iron
WM	Water Meter
WP	Work Point
WPS	Waterproofing System
WR	Weather Resistant
WRB	Wardrobe
WS	Weatherstrip(ping)
WT	Weight
WTR	Window Treatment
WV	Wood Veneer
WWF	Welded Wire Fabric
X	
Y	
Z	

DRAWING REFERENCE SYMBOLS

REFER TO CONSULTANT DRAWINGS FOR ADDITIONAL SYMBOLS

FIRST FLOOR PLAN 01
SCALE: 1/8" = 1'-0"

DRAWING TITLE
DRAWING NAME
DRAWING NUMBER
DRAWING SCALE

1 / A10.20.30 — BUILDING SECTION INDICATOR
SECTION IDENTIFIER
DRAWING NUMBER

1 / A10.20.30 — CALLOUT INDICATOR
CALLOUT IDENTIFIER
DRAWING NUMBER

1 / A10.20.30 — DETAIL INDICATOR
DETAIL IDENTIFIER
DRAWING NUMBER

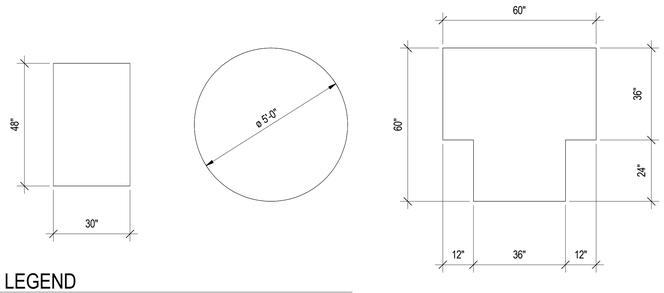
1 / A10.20.30 — EXTERIOR ELEVATION INDICATOR
ELEVATION IDENTIFIER
DRAWING NUMBER

12 / 12 A10.20.30 12 / 12 — INTERIOR ELEVATION INDICATOR
ELEVATION IDENTIFIER
DRAWING NUMBER

RE: 01 / A2.0 — MATCHLINE & VIEW REFERENCE
DRAWING NUMBER
DRAWING IDENTIFIER

RE: 01 / A2.0 — VIEW REFERENCE
DRAWING NUMBER
DRAWING IDENTIFIER

WHEELCHAIR ACCESSIBLE SPACE



RCP LEGEND

Note to specifier: These are the most common

- SUPPLY AIR GRILLE
- EXHAUST AIR GRILLE
- RETURN GRILLE
- SLOT DIFFUSER
- EXIT SIGN
- RECESSED CAN LIGHT
- SUSPENDED CAN LIGHT
- DIRECTIONAL RECESSED CAN LIGHT
- PENDANT LIGHT
- RECESSED RECTANGULAR LIGHT
- PENDANT RECTANGULAR LIGHT
- SPRINKLER HEAD
- WALL SCONE
- COVE LIGHT
- STRIP LIGHT

MISC. SYMBOLS

- CENTERLINE
- ALIGN
- NORTH SYMBOL
- BREAK LINE
- GRAIN DIRECTION
- X — PATTERN START POINT
- CONC / AF-1 — FLOOR MATERIAL TRANSITION; MATERIAL 1; MATERIAL 2

TAGS

ROOM NAME / 101 / 150 SF — ROOM TAG; ROOM NAME INDICATOR; ROOM NUMBER; AREA

ROOM NAME / 101 — ROOM TAG; ROOM NAME INDICATOR; ROOM NUMBER

AREA NAME / 150 SF — AREA TAG; AREA NAME INDICATOR; AREA

A-3 / AREA NAME / 150 SF / 200 OCC — OCCUPANCY TAG; OCCUPANCY GROUP; AREA NAME INDICATOR; AREA; NUMBER OF OCCUPANTS

E12 / 1 A — WALL TAG; PARTITION TYPE; ACOUSTIC RATING (WHERE INDICATED); FIRE RATING (WHERE INDICATED)

ACT-1 / 9' - 0" — CEILING TAG; CEILING FINISH; CEILING HEIGHT (AFF)

101 — DOOR NUMBER

22 / RFI #44 — REVISION TAG; REVISION NUMBER; RFI

0000 — ACCESSORY NUMBER

DATUM SYMBOLS

LEVEL 01 / +20' - 0" — LEVEL HEAD; LEVEL NAME; ELEVATION

AA — COLUMN LINE INDICATOR

AA — EXISTING COLUMN LINE INDICATOR

REFERENCE POINT; WORK POINT; DIMENSION POINT; START POINT

XX +1' - 6" — POINT ELEVATION; ELEVATION; PREFIX

XX +1' - 6" — SURFACE ELEVATION; ELEVATION; PREFIX

XX +1' - 6" — SITE ELEVATION; ELEVATION; PREFIX

HP +1' - 6" — HIGH POINT

LP +1' - 6" — LOW POINT

MATERIALS

- 02 - EXISTING CONCRETE
- 03 - CONCRETE
- 03 - CONCRETE (RE: STRUCTURAL)
- 03 - PRECAST CONCRETE
- 03 - LIGHTWEIGHT CONCRETE
- 03 - CONCRETE LEVELER
- 03 - CONCRETE TOPPING SLAB
- 04 - BRICK
- 04 - CONCRETE MASONRY UNIT
- 04 - STONE
- 04 - MORTAR
- 04 - SETTING BED
- 05 - ALUMINUM
- 05 - STEEL/STAINLESS STEEL
- 05 - BRONZE
- 06 - CONTINUOUS WOOD BLOCKING
- 06 - DISCONTINUOUS WOOD BLOCKING
- 06 - MEDIUM DENSITY FIBERBOARD
- 06 - PLYWOOD
- 06 - WOOD GRAIN
- 07 - BATT INSULATION
- 07 - FIREPROOFING
- 07 - RIGID INSULATION
- 07 - SEMI RIGID INSULATION
- 07 - FOAM, FILLER, GASKET
- 09 - ACOUSTICAL CEILING BOARD
- 09 - CARPET
- 09 - GYPSUM
- 09 - LATH AND PLASTER
- 09 - RESILIENT FLOORING
- 09 - TERRAZZO
- 09 - TILE
- 09 - GROUT
- 31 - EARTH
- 31 - GRAVEL
- 31 - ASPHALT

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C-37366
01/31/2027
RENEWAL DATE
STATE OF CALIFORNIA

Sheet Name:
ABBREVIATIONS & SYMBOLS

Project No.: 24.05
Drawn By: Author
Checked By: Checker
Scale: As indicated

Sheet No.: A002

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SPEC	ABRV	MATERIAL	SPECIES/FINISH	MANUFACTURER
Note: The list below is a summary for convenience only. Refer to drawings, schedules and specifications for complete and detailed information. This schedule is non exhaustive and only serves to connect drawings and specification section. Not all items listed will be used in project				
02 41 00		**Demolition**		
03 CONCRETE				
03 30 00		**Cast-in-Place Concrete**		
	CONC-01	Structural Concrete	See Structurtal Drawings and Specificaitons	
03 33 00		**Cast-in-Place Concrete**		
	CONC-02	Site Vertical Concrete		
	CONC-03	Site Flatwork		
	CONC-04	Interior Sealed Concrete		
04 MASONRY				
04 20 00		**Concrete Unit Masonry**		
	CMU-01	Architectural Concrete Unit Masonry	(Match with existing Unit)	RCP BLOCK & BRICK
05 METALS				
05 12 00		**Structural Steel Framing**		
05 50 00		**Metal Fabrications**		
05 70 00		**Decorative Metal**		
	MTL-1	Aluminum		
	MTL-2	Stainless Steel	Stainless Steel	No 4 Brushed Finish
	MTL-2A	Stainless Steel	Stainless Steel	
	MTL-3	Mild Steel		
	MTL-4	Bronze		
06 WOOD, PLASTICS, AND COMPOSITES				
06 10 00		**Rough Carpentry**		
06 40 00		**Architectural Woodwork**		
	WD-01	Interior Wood , Solid	Oak, Stained to Match exisiting	
	WD-01A	Interior Wood Veneer	Match WD-01	
	WD-02	Interior Wood, Solid	Maple	
	WD-02A	Interior Wood Veneer	Match WD-02	
	WD-03	Wood Base, Solid	Local Hardwood	
	QTZ-01	Manufactured Stone	2CM Quartz Surface in White	Della Terra Quartz Serene, Arizona Tile
	STN-01	Interior Stone	Black Travertine Threshold in Profile Shown	
	PL-01	High Pressure Plastic Laminate		
		Exterior Architectural Woodwodk		
	WD-10	Fascia Repair	Redwood	
	WD-11	Exterior Benches	Teak	
	WD-12	Handrail	Teak	
07 THERMAL AND MOISTURE PROTECTION				
07 14 13		**Hot Fluid Applied Rubber Waterproofing**		
	WP-01	HRA Waterproofing	In new planters with root barrier	
07 23 00		**Thermal Protection**		
	INS-01	Not Used		
	INS-02	Not Used		
	INS-03	Extruded Polystyrene Insulation Board	Loadbearing Applications	Foamular 400 (Owens Corning)
	INS-04	Not Used		
	INS-05	Not Used		
	INS-06	Not used		
	INS-07	Foil Faced Blanket Batt Insulation	Interior cavity of exterior walls, foil face in	EcoBatt (Knauff)
	INS-08	Unfaced Blanket Batt Insulation	Interior insulation	EcoBatt (Knauff)
	INS-09	Not Used		
	INS-10	Safing Insulation	Safing at flue penetrations and exterior penetrations	Thermafiber Safing (OwensCorning
	INS-11	White Acoustical Insulation	Selectsound White Acoustic Board 1" Thick	Owens Corning
07 25 00		**Weather Barriers**		
	WB-01	Weather Barrier	Fluid Applied	Perm-a-Barrier (Grace)
07 54 00		**Thermoplastic Membrane Roofing**		
	RF-01	Single Ply PVC Roofing		Sarnafil
07 62 00		**Sheet Metal Flashing**		
	FL-1	Flashing	Stainless Steel (MTL-2) Sheet Metal Flashing	
07 84 00		**Penetration Fire Stopping**		
	SE-7	Fire Rated Sealant	Electrical Room/Flue Penetrations	Fire Barrier (3M)
07 92 00		**Joint Sealants**		
	SE-1	Structural Silicone	To be used at exterior built up window frames	DOWSIL 995
	SE-2	Silicone	General Sealant	DOWSIL 790
	SE-3	Pourable Urethane	Exterior flatwork	Vulkem 445SSL (Tremco)
	SE-4	Sanitary	Restrooms and food preparation areas	DOWSIL 680
	SE-5	Acrylic Paintable	General Painter's Caulking	Alex Painter (DAP)
	SE-6	Acoustical Sealant		
	SE-7	Fire Rated	See 07 84 00	
08 OPENINGS				
08 11 13		**Hollow Metal Doors**		
		See Schedule		
08 14 00		**Wood Doors and Frames**		
		See Schedule		
08 31 00		**Access Doors and Panels**		
	AP-1	Flush Access Door	Masonry	
	AP-2	FLush Stainless Steel	Ceramic	
	AP-3	Flush Access Door	Drywall / Veneer Plaster	
	AP-4	Recessed Pan Type	Plaster	
	AP-5	Exterior Access Doors		
08 41 00		**Entrances and Storefronts**		
	SF-01	Storefront	Stick built batten mullion system	Kawneer 1600
08 42 29		**Automatic Sliding Doors**		
	SG-01	Sliding Aluminum-Framed Glass Doors		ESA 400 (Dormakaba)
08 70 00		**Door hardware**		
08 80 00		**Glazing**		
	GL-01	Monolithic Glass	1/2" Tempered	
	GL-02	Laminated Glass	1/2" Match GL-03	
	GL-03	Insulated Glass Units	IGU with Low E Coating	VE1-48 (VIRACON)
	GL-04	Mirror Glass	1/4" with Penciled Edge	

SPEC	ABRV	MATERIAL	SPECIES/FINISH	MANUFACTURER
09 FINISHES				
09 21 14		**Plaster Systems**		
	PLA-01	Cement Plaster	3-Coat Stucco, Finish to match existing	
	PLA-02	Acoustic Plaster	See 09 21 17 "Gypsum Board Assemblies"	
09 21 17		**Gypsum Board Assemblies**		
	PLA-02	Acoustic Plaster	Interior Seamless Acoustical Plaster	
	RB-01	Rubber Base	4" White, coved at resilient floors; straight cut at carpet	Icicle (Johnsonite)
09 30 00		**Tiling**		
	TL-01	Porcelain Floor Tiles	24" x 24" Matte finish,	OU56 Outlander Moonlight Matte (Dalite)
	TL-02	Ceramic Wall Tiles	3" x 12" x 0.5" Ceramic Tiles	Flash White, (Arizona Tile)
	QT-01	Quarry Floor Tiles		
	TZ-01	Cement Terrazzo Tile	Red Matte	
	STN-01	Granite	Taivassalo Granite in Profiles Shown	
	STN-02	Marble	Georgia White in Profiles Shown	
09 51 00		**Acoustical Ceiling Tile**		
	ACT-01	Acoustical Ceiling Tile	2'x 2' Tegular Square Lay-in , White on 9/16" grid	CALLA (Armstrong)
	ACT-02	NOT USED		
	ACT-03	Acoustical Ceiling Tile	Open cell Panel Grid in Mocha	Feltworks (Armstrong)
09 65 00		**Resilient Flooring**		
	LVT-01	Vinyl Plank Flooring	6" x 24" 3mm, Vinyl Flooring	Pebble Limestone, LF02(DAL Tile)
	RB-01	Rubber Base	4" White, coved at resilient floors; straight cut at carpet	Icicle (Johnsonite)
09 68 00		**Carpeting**		
	CPT-01	Tile Carpeting	2'x2' Cubic, Quarter turn with Glasbac backing	004287 Shape (Interface)
	CPT-02	Tile Carpeting	2'x2' Cubic, Quarter turn with CushionBac Renew backing	004287 Shape (Interface)
09 91 00		**Painting**		
	PT-01	Interior Latex Flat	Project Standard White	Swiss Coffee OC-45 (Benjamin Moore)
	PT-02	Interior Latex Satin	Project Accent Color	Fossil AF-65 (Benjamin Moore)
	PT-03	Interior Latex Eggshell	Ceilings	Chantilly Lace OC-65 (Benjamin Moore)
	PT-04	Interior Latex Satin	Restrooms	Chantilly Lace OC-65 (Benjamin Moore)
	PT-05	Interior Latex Satin	Restroom Accent Color	Seapearl OC-19 (Benjamin Moore)
	PT-10	Exterior Acrylic Eggshell	White	Winters Gate 2238 (Pratt and Lambert)
	PT-11	Exterior Acrylic Satin	Match Existing Trim Color (Yellow)	RAL 1014
	PT-12	Exterior Acrylic Satin	Match Existing Trim Color (Red)	RAL 2001
	PT-13	Exterior Acrylic Satin	Match Existing Trim Color (Metal Roofing)	RAL 6008
09 96 00		**High Performance Coatings**		
	FIN-1	Resinous Coating	3 Coat Fluoropolymer System	UC106714XL Vintage Bronze
	FIN-2	Resinous Coating	3 Coat Fluoropolymer System	RAL 6008 (Match PT-13)
	PC-01	Powder Coating	Matte Black	Tricorn Black SW 6258 (Sherwin Williamns)
10 SPECIALTIES				
10 14 00		**Signage**		
10 21 13		**Toilet Compartments**		
		Ceiling Hung	Backed Enamel	
10 28 13		**Toilet Accessories**		
	TA-01	Combination Paper Towel and Waste Receptacle	B043944, Recessed Paper Towel Dispenser and Waste Receptacle,Stainless Steel w Satin Finish	ConturaSeries, (BOBRICK)
	TA-06	Toilet Tissue Dispenser (Two Roll)	B-4288, Surface Miounted Multi-Roll Toilet Tissue Dispenser (Two Roll), Stainless Steel	ConturaSeries, (BOBRICK)
	TA-07	Toilet Tissue, Seat Cover, and Waste Disposal	Recessed Toilet Tissue, Seat Cover Dispenser and Waste Disposal - Left Side of Toilet While Seated, Stainless Steel w Satin Finish	B-3091, Classic Series, (BOBRICK)
	TA-08	Toilet Tissue, Seat Cover, and Waste Disposal	Recessed Toilet Tissue, Seat Cover Dispenser and Waste Disposal - Right Side of Toilet While Seated, Stainless Steel w Satin Finish	B-3092,Classic Series, (BOBRICK)
	TA-11	Toilet Seat Cover Dispenser	Recessed Toilet Seat Cover Dispenser, Stainless Steel	B-301, (BOBRICK)
	TA-12	Shelf	Folding Utility Shelf, Stainless Steel Shelf	B-287,(BOBRICK)
	TA-13	Grab Bar	1-1/2" Diameter Stainless Steel Grab Bars with Snap Flange, Stainless Steel w Satin Finish	B-6806 Series, 36" & 42", As shown in plan , (BOBRICK)
	TA-14	Coat Hook	Surface-Mounted Coat Hook, Stainless Steel w Satin Finish	B-9542, Fino Collection, (BOBRICK)
	TA-15	Coat Hook with Bumper	Surface-Mounted Coat Hook with Bumper, Satin Finish Steel	B-9541,(BOBRICK)
	TA-16	Changing Table	Baby Changing Station, Brushed Stainless Steel Veneer	KB-300-SS, Koala Kare
	TA-17	Janitors Room Utility Shelf	Utility Shelf w Mop/Brrom Holders and Rag Hooks	B-224 ,(BOBRICK)
	TA-18	Mop & Broom Holder	Mop and Broom Holder, Stainless Steel w Satin Finish	B-223, (BOBRICK)
	TA-19	Automatic Hand Dryer	Surface Mounted Automatic Hand Dryer (Touchless), Stainless Steel w Satin Finish	B-7179,Fino Collection, (BOBRICK)
	TA-20	Toilet Tissue, Seat Cover, and Waste Disposal	Surface Mounted Toilet Tissue, Seat Cover Dispenser and Waste Disposal - Left Side of Toilet While Seated, Stainless Steel w Satin Finish	B-30919,Classic Series, (BOBRICK)
	TA-21	Toilet Tissue, Seat Cover, and Waste Disposal	Surface Mounted Toilet Tissue, Seat Cover Dispenser and Waste Disposal - Right Side of Toilet While Seated, Stainless Steel w Satin Finish	B-30929,Classic Series, (BOBRICK)
10 44 00		**Fire Protection Specialties**		
	FEC-1	Fire Extinguisher in Cabinet	Recessed, Paint to Match Wall	Potter Roemer 1704-
10 51 00		**Lockers**		

SPEC	ABRV	MATERIAL	SPECIES/FINISH	MANUFACTURER
11 EQUIPMENT				
11 30 13		**Appliances**		
	REF	Refigerator	48" French Door, Shallow with freezer on bottom	
	MW	Microwave		
12 FURNISHINGS				
12 93 00		**Site Furnishings**		
	BK-01	Bicycle Rack	1-Loop Wave Style Bike Rack - 3 Bike Capacity	H-2892BL (Uline)
	TB-01	Exterior Trash Bin	50g Outdoor River Rock Receptacle with Domed Top	Landmark Series (Rubbermaid)
	RY-01	Exterior Recycling Bin	50g Outdoor River Rock Receptacle with Domed Top	Landmark Series (Rubbermaid)
	SK-01	Skateboard Deterrents	Surface Mount Brushed Stainless Steel	G 135-SS, (SKATE STOPPERS)
	BD-01	Exterior Book drop	Sandstone/ Luster	S Series SuperMax 70 Versa Outdoor Returns, (Kingsley)
13 SPECIAL CONSTRUCTION				
14 CONVEYING EQUIPMENT				
21 FIRE SUPPRESSION				
22 PLUMBING				
	DF-01	Bottle Filling Station with Bi Level ADA Drinking Station	Drinking Fountain	EZWS-EDFPBM117K (Elkay)
	SK-01	Kitchen Sink Deck Mount Semi Professional Faucet Under Sink RO Water Filter Garbage Disposal Standard Trap Knee Guard	32" undermount single-bowl kitchen sink Stainless Steel Reverse Osmosis Filter Undersink See Plumbing Formed MTL-2A	Model:K-25939-NA , "Vault" (Kohler) K-28267-CP, "Components" (Kohler) G3P600(Water Drop) Model: 79850-ISE - Item: bci2610833 (InSinkErator)
	SK-02	Utility Sink ADA Undermount Single Basin Deck Mount Semi Professional Faucet Standard Trap Knee Guard	32" Stainless Steel Workstsation Sink Stainless Steel	K-5285-NA, "Strive" (Kohler) K-28267-CP, "Components" (Kohler)
	LAV-01	Ganged Restroom Lavatory ADA Undermount Round Bowl Single Hole Sensor Faucet Kneeguard	Caxton, 21-1/4" Oval Undermount Bathroom Sink,White Optima Sensor Faucet (Touchless),Brushed Stainless Steel Formed Stainless Steel	K-2211 "Caxton" (Kohler) EBF-650-8-BAT-CP-0.5GPM-MLM-FCT, (Sloan)
	LAV-02	Alcove Lavatory ADA Undermount Round Bowl Single Hole Sensor Faucet Kneeguard	Caxton, 21-1/4" Oval Undermount Bathroom Sink,White Optima Sensor Faucet (Touchless),Brushed Stainless Steel Formed Stainless Steel	K-2211 "Caxton" (Kohler) EBF-650-8-BAT-CP-0.5GPM-MLM-FCT, (Sloan)
	LAV-03	Wall Hung Lavatory Single Hole Sensor Faucet Kneeguard	Vitreous China Optima Sensor Faucet (Touchless),Brushed Stainless Steel	K-2028-1-0, "Pinoir" , (Kohler) EBF-650-8-BAT-CP-0.5GPM-MLM-FCT, (Sloan)
	WC-01	Water Closet Toilet Seat Water Closet Valve / Flushometer	Kingston Ultra Top Spud Flushometer Bowl , White Open Front, heavy Duty Commercial Toilet Seat Royal Manual Flushmeter	K-84325, "Kingston Ultra " (Kohler) PFTSCOFH2000WH, "ProFlo",(Kohler) 3910168, " Royal 111-1.28" (Sloan)
	WC-02	Water Closet Flush Valve	Madera Youth Flowise 14-inch Height Top Spud Elongated Bowl, White 6047161.002, ,Sensor-Operated: American Standard Selectronic®	" Madera", (American Standard) "Ultima",(American Standard)
	UR-01	Urinal	Small Waterfree Urinal, White Vitreous China	WES-4000-STG, "Aquia"(Sloan)
	JMB	Janitor's Mop Sink Mop Sink Faucet	Whitby, Service Sink, Enamal Cast Iron, White Triton Bowe, Service Sink Faucet, Polished Chrome	K-6710, (Kohler) K-8387B0-4A, (Kohler)
	FD-01	Floor Drain	See Plumbing	
23 HEATING, VENTILATING, AND AIR CONDITIONING (HVAC)				
		See Mechanical		
25 INTEGRATED AUTOMATION				
26 ELECTRICAL				
26 51 00		**Interior Lighting**		
		See RCP on Sheet A400 for lighting fixtures		
		See Electrical for Additional Information		
27 COMMUNICATIONS				
27 20 00		**Data Communications**		
28 ELECTRONIC SAFETY AND SECURITY				
31 EARTHWORK				
		See Civil		
32 EXTERIOR IMPROVEMENTS				
32 13 00		**Rigid Paving**		
	CONC-03	Site Concrete	See 03 33 00 and Civil Drawings	
	PVR-01	Permeable Wood Pavers	12" x 12" Permeable Wood Decking	Black Locust : End Grain Flow Pavers (Robi Decking)
32 16 00		**Curbs, Gutters, Sidewalks, and Driveways**		
		See Civil		
32 90 00		**Planting**		
		See Landscape		

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C-37366
01/31/2027
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MATERIALS AND NOTES

Project No.:	24.05	Sheet No.:
Drawn By:	Author	A003
Checked By:	Checker	
Scale:		

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10/13/2025 7:39:18 AM

PROPOSED AREA TABLE

AREA OF PARKING REGRADING		1,040 SF
	TOTAL AREA	**1,040 SF**
AREA OF PATH OF TRAVEL REGRADING 1		1,474 SF
AREA OF PATH OF TRAVEL REGRADING 2		617 SF
EGRESS PATH OF TRAVEL REGRADING		502 SF
	TOTAL AREA	**2,593 SF**
AREA OF INTERIOR RENOVATION 1		308 SF
AREA OF INTERIOR RENOVATION 2		3,110 SF
	TOTAL AREA	**3,418 SF**
	TOTAL AREA	**7,051 SF**

PROPOSED AREA LEGEND

GROSS BUILDING AREA

PROPOSED CONSTRUCTION AREA

AREA TABLE

EXTENT OF INTERIOR DEMOLITION AREA A		3,027 SF
EXTENT OF INTERIOR DEMOLITION AREA B		333 SF
EXTENT OF INTERIOR DEMOLITION GLAZING		68.43 SF
	TOTAL AREA	**3,428 SF**
EXTENT OF EXTERIOR DEMOLITION (ENTRY PAVEMENT)	**TOTAL AREA**	**920 SF**
EXTENT OF EXTERIOR DEMOLITION A		637 SF
EXTENT OF EXTERIOR DEMOLITION B		665 SF
	TOTAL AREA	**1302 SF**
EXTENT OF PARKING DEMOLITION	**TOTAL AREA**	**1,118 SF**

EXISTING AREA LEGEND

INTERIOR DEMOLITION AREA

EXTERIOR DEMOLITION AREA

OPTIONAL EXTERIOR DEMOLITION AREA

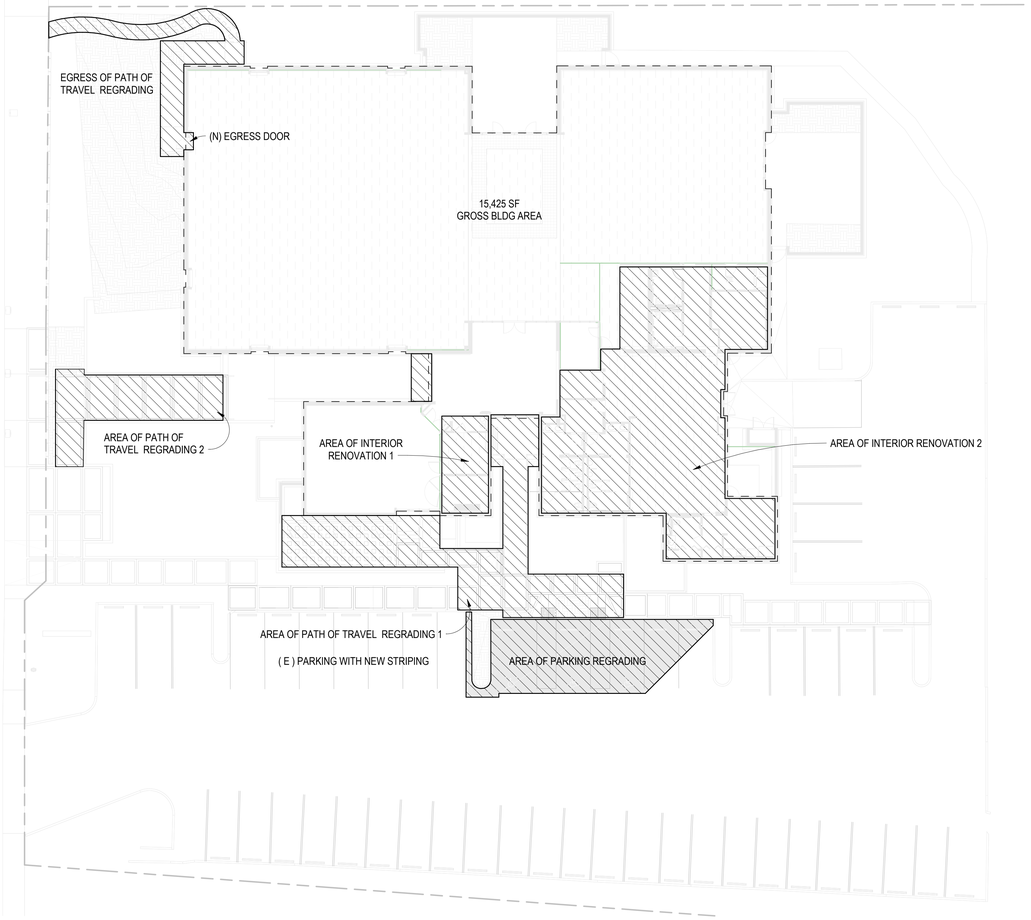
PARKING DEMOLITION

SHEET NOTES:

1) THIS SCOPE DOES NOT INCLUDE A REVISION IN OCCUPANCY OR ADDITION TO THE BUILDING THEREFORE PARKING WAS NOT RECALCULATED

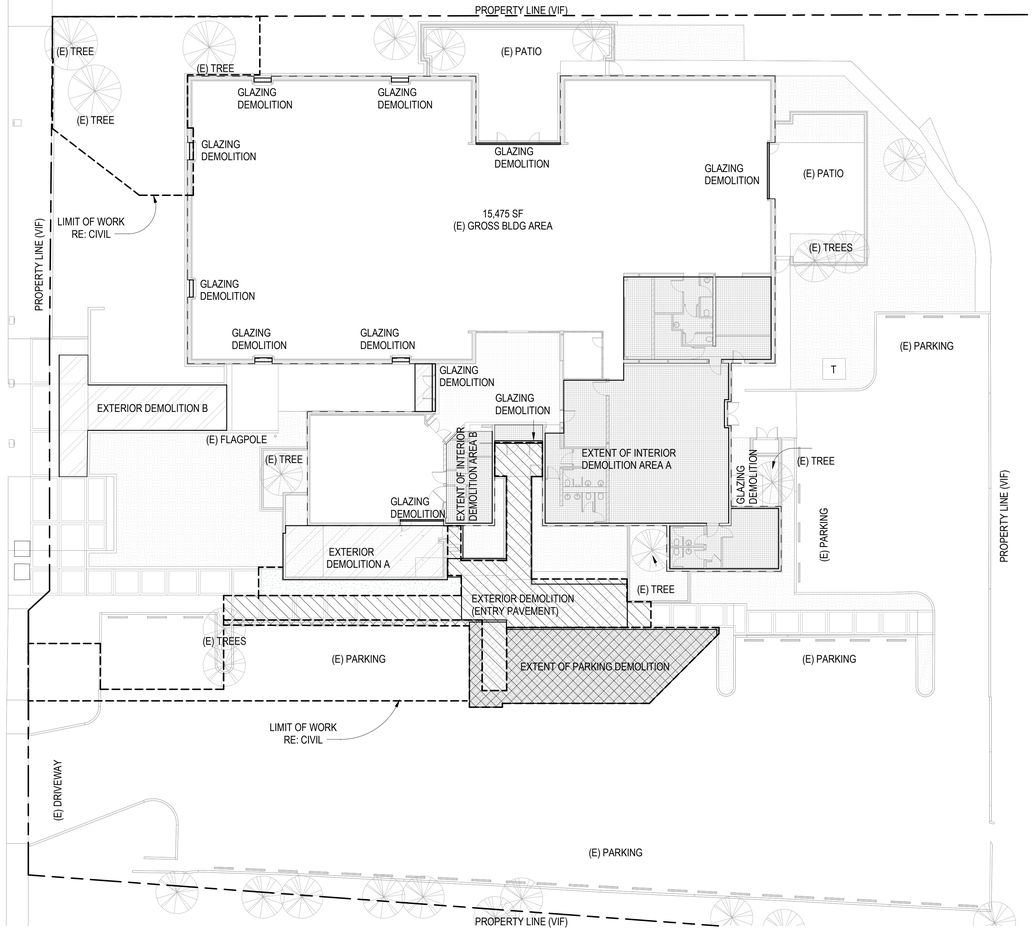
2) EXISTING PROPERTY LINE IS TO MIDDLE OF STREET. PROPOSED PROPERTY LINE IS PER CIVIL DRAWINGS

3) ALL CEILINGS TO BE REPLACED



PROPOSED AREA DIAGRAM 02

SCALE: 1/16" = 1'-0"



EXISTING AREA DIAGRAM 01

SCALE: 1/16" = 1'-0"

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C-37366
01/31/2027
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AREA DIAGRAMS AND SCOPE OF WORK

Project No.:	Sheet No.:
24.05	A010
Drawn By: Author	
Checked By: Checker	
Scale: As indicated	

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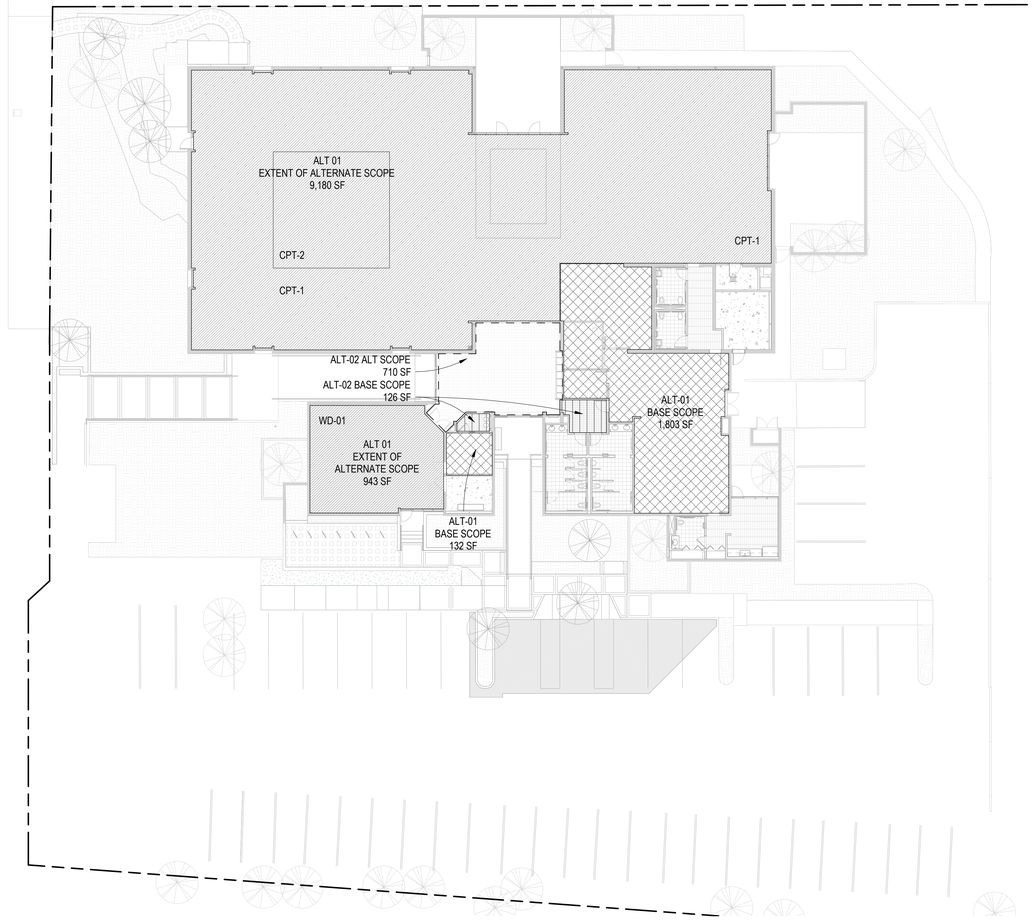
SHEET NOTES:

1. ALT 1 - PROVIDE BREAKOUT PRICING FOR COMPLETE REMOVAL AND REPLACEMENT OF CARPET AND WOOD FLOORING
2. ALT 2 - PROVIDE BREAKOUT PRICING FOR REPLACEMENT OF LOBBY FLOORING WITH TZ-01 TILES.
3. ALT 3 - PROVIDE BREAK OUT PRICING TO INCLUDE POWER AND DATA INFRASTRUCTURE FOR INTERIORS WORK SHOWN ON I220



ALTERNATE DIAGRAM 01
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ALLOWANCES AND ALTERNATES

Project No.:	24.05	Sheet No.:
Drawn By:	Author	A011
Checked By:	Checker	
Scale:	1/16" = 1'-0"	

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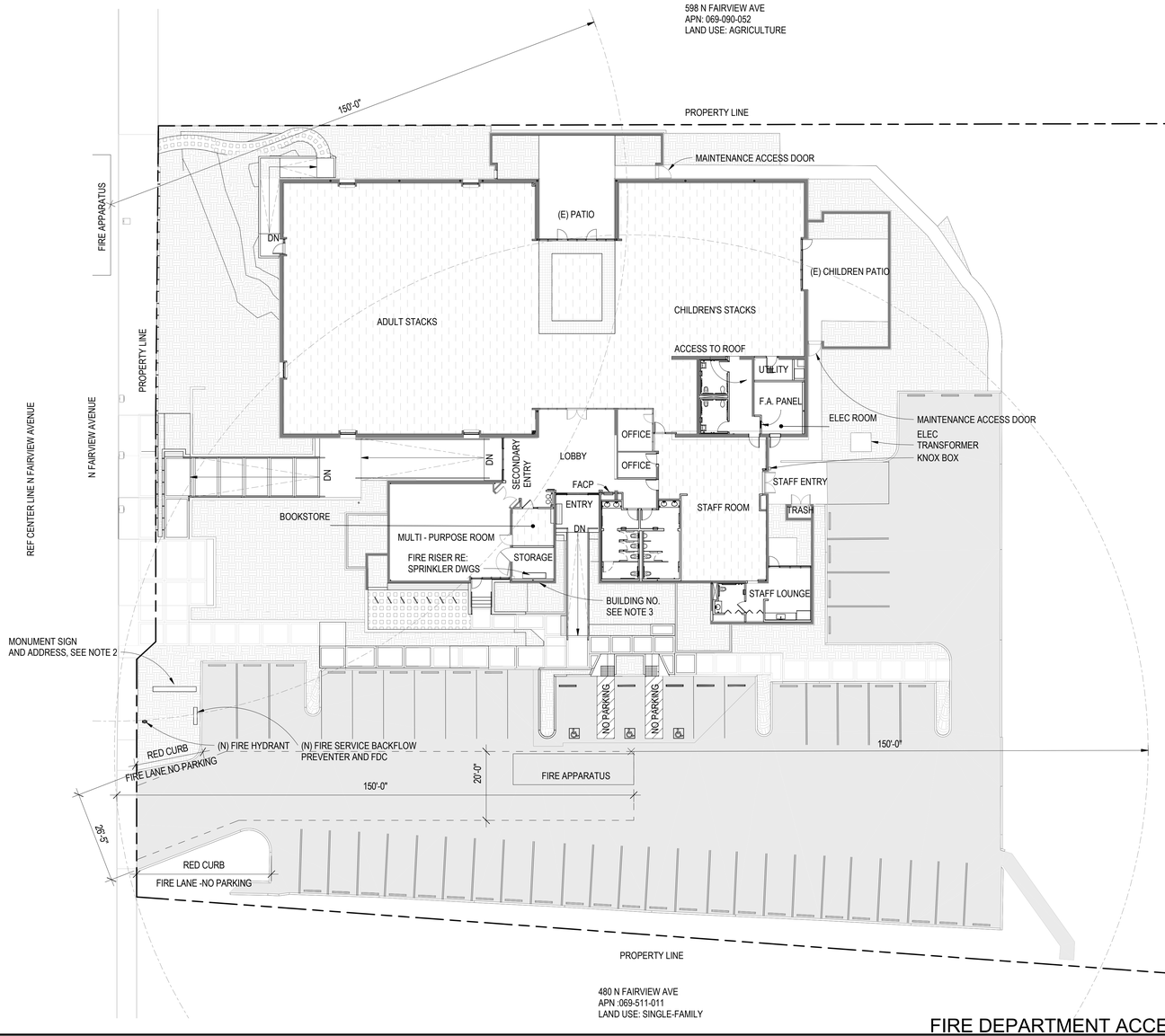
SHEET NOTES:

1. ENSURE DEFENSIBLE SPACE OF 100 FEET AROUND ALL STRUCTURES OR TO THE PROPERTY LINE; RETAIN SINGLE ORNAMENTAL PLANTS IF THEY DO NOT POSE A FIRE TRANSMISSION RISK.
2. MARK DESIGNATED FIRE LANES WITH RED CURBS AND "FIRE LANE – NO STOPPING" SIGNS AS REQUIRED BY THE CALIFORNIA FIRE CODE. REFER TO PAINT SPECIFICATIONS FOR PRIMER AND PAINT
3. PERMANENT ADDRESS NUMBERS SHALL BE AT LEAST 6 INCHES HIGH, IN A CONTRASTING COLOR, VISIBLE FROM THE ROAD IN BOTH DIRECTIONS; PROVIDE ADDITIONAL SIGNAGE IF THE DRIVEWAY EXCEEDS 150 FEET OR THE BUILDING IS OBSCURED. REFER TO BUILDING ELEVATIONS FOR LOCATION OF SIGN



FIRE DEPARTMENT ACCESS DIAGRAM 01
SCALE: 1/16" = 1'-0"

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FIRE DEPARTMENT ACCESS DIAGRAMS

Project No.:	Sheet No.:
24.05	A020
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Scale: 1/16" = 1'-0"	

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EGRESS AND PLUMBING CALCULATION

	Occupancy	OLF (SF)	Useable Area (SF)	No. of Occ.	Req'd Exits	Exits Provided	PLF (Per CPC)	No. of Occ.	No. of Males	W.C.	Urinals	Req'd Lavs	No. of Females	Req'd W.C.	Req'd Lavs	Drinking Fountain	JC
Ground Level																	
				246				247	124	2	2	1	124	2	1	1	1
Adult Stack Area	A-3	100	4,744	48	1	1	50	95									
Adult Reading Area	A-3	50	598	12	1	2	50	12									
Children Stack Area	A-3	100	2,722	28	1	2	50	55	1/2 Total Occ.	2:101 -200	2:101 -200	1:1-200	1/2 Total Occ.	4:101 -200	2:101 -200	1:1-250	1 Service Sink
Children Reading Area	A-3	50	409	9	1	2	50	9									
Outdoor Deck A	A-3	15	661	45	1	1	30	23									
Outdoor Deck B	A-3	15	602	41	1	2	30	21									
Multipurpose room	A-3	15	938	63	2	2	30	32									
				45				34	17	1	1	1	17	2	1	1	1
Checkout Area	B	150	1,170	8	1	1	150	8									
Office	B	150	2,579	18	1	1	150	18									
Staff Lounge	Acc	15	196	14	1	2	30	7	1/2 Total Occ.	1:1-50	1:1-100	1:1-75	1/2 Total Occ.	2:16-30	1:1-50	1 per 150	1 Service Sink
Outdoor Deck C	Acc	15	67	5	1	2	30	3									
Lobby	B	150	750	5	1	2	150	5									
Book Store	B	150	141	1	1	2	150	1									
Storage	Acc	300	106	1	1	2	-										
Utility Area	U	300	235	1	1	1	-										
Mezzanine																	
Abandoned Utility	U	300	659	3			-										
TOTAL				294				281	141	3	3	2	141	4	2	2	1

Egress Calculations per 2022 CBC
Plumbing Calculations per 2022 CPC

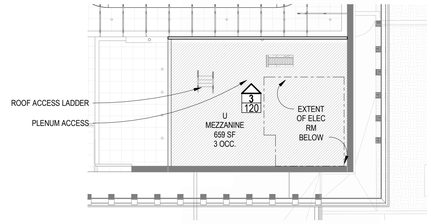
FIRE LIFE SAFETY FLOOR PLANS LEGEND

- 1 HR FIRE-RESISTANCE RATING
- 2 HR FIRE-RESISTANCE RATING
- 3 HR FIRE-RESISTANCE RATING
- 4 HR FIRE-RESISTANCE RATING
- SMOKE BARRIER
- EGRESS PATH OF TRAVEL
- ACCESSIBLE PATH OF TRAVEL
- EXIT SEPARATION
- 250 TOTAL EXITING OCCUPANTS
- EXIT ACCESS — 100 / 300 — Actual Exiting Occupants / Egress Capacity
- EXIT — 100 / 600 — Actual Exiting Occupants / Egress Capacity
- ACCESSIBLE EXIT ACCESS
- EXIT DISCHARGE
- FE FIRE EXTINGUISHER

A-3 — OCCUPANCY TAG
AREA NAME — OCCUPANCY GROUP AREA NAME INDICATOR
150 SF — AREA
200 OCC — NUMBER OF OCCUPANTS

AREA LEGEND OCCUPANCY

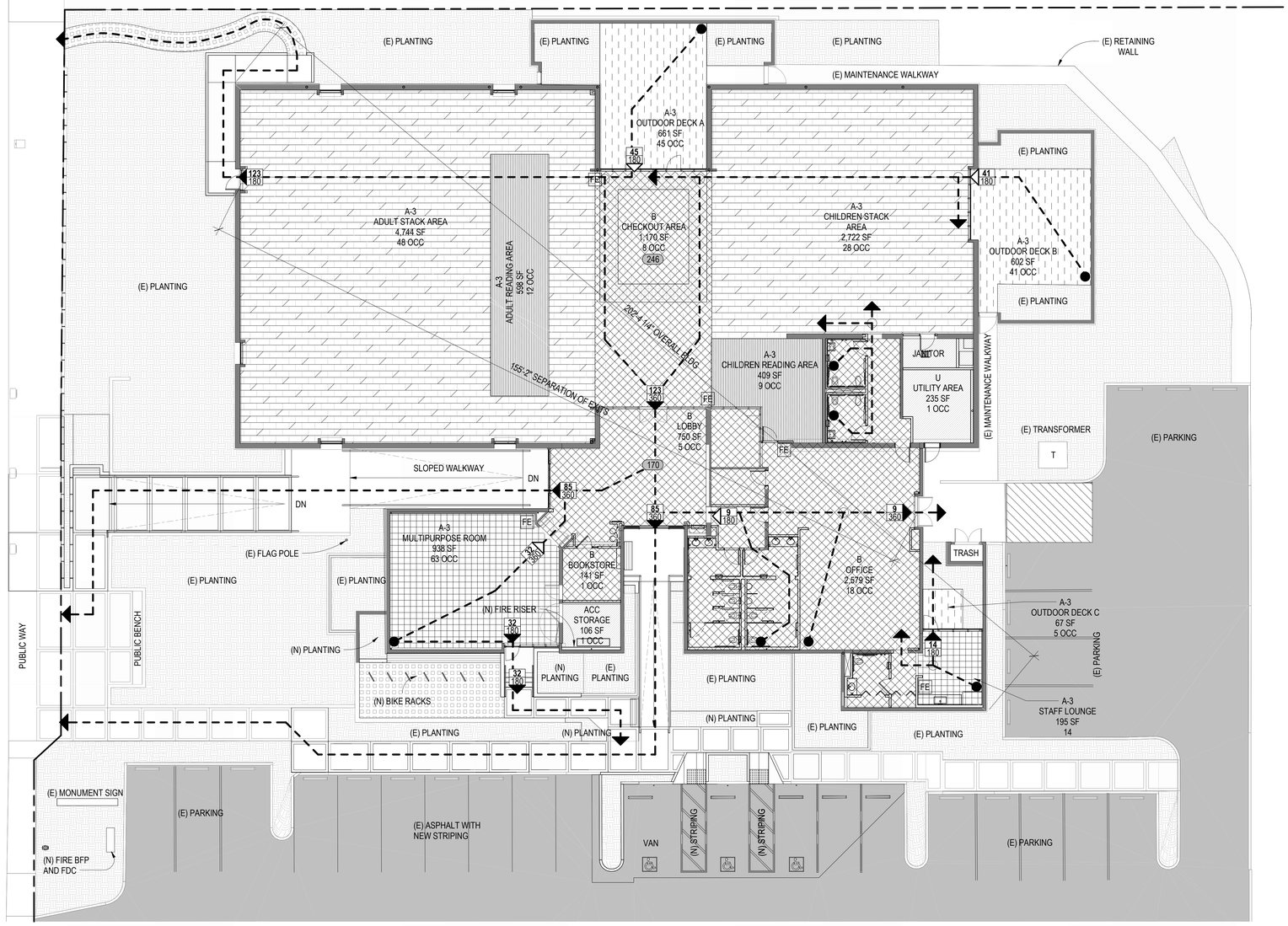
- OCCUPANCY TYPE A-3, UNCONCENTRATED ASSEMBLY
- OCCUPANCY TYPE A-3, LIBRARY READING AREA
- OCCUPANCY TYPE B, OFFICE
- OCCUPANCY TYPE U, STORAGE/ UTILITY AREA
- OCCUPANCY TYPE A-3, OUTDOOR DECK
- OCCUPANCY TYPE A-3 LIBRARY STACK AREA



MEZZANINE 02
SCALE: 3/32" = 1'-0"

SHEET NOTES

1. BUILDING IS TO BE FULLY SPRINKLERED.
   A. THE MINIMUM CAPACITY IN INCHES FOR STAIRWAYS SHALL BE .2" PER OCCUPANT PER CBC 1005.3.1.
   B. THE MINIMUM CAPACITY FOR ALL OTHER EGRESS COMPONENTS SHALL BE .15" PER OCCUPANT PER CBC 1005.3.2
2. PER CBC T1006.2.1 MAXIMUM COMMON PATH OF EGRESS TRAVEL DISTANCE FOR SPRINKLERED A AND B TYPE OCCUPANCIES IS 75' AND 100' RESPECTIVELY.
3. PER CBC T1017.2 MAXIMUM EXIT ACCESS TRAVEL DISTANCE FOR SPRINKLERED BUILDINGS FOR A AND B TYPE OCCUPANCIES IS 250' AND 300' RESPECTIVELY.



CODE & EGRESS DIAGRAM 01
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LICENSED ARCHITECT JEFFREY MILLER C-37366 01/31/2027 RENEWAL DATE STATE OF CALIFORNIA

Sheet Name:
CODE AND EGRESS DIAGRAMS

Project No.: 24.05
Drawn By: Author
Checked By: Checker
Scale: As indicated

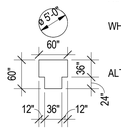
Sheet No.: A030

10/13/2025 7:39:25 AM

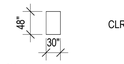
ACCESSIBLE DIAGRAM LEGEND

ACCESSIBLE ROUTE

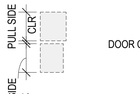
WHEELCHAIR TURNING SPACE



ALT WHEELCHAIR TURNING SPACE



CLR FLOOR OR GROUND SPACE FOR WHEELCHAIR

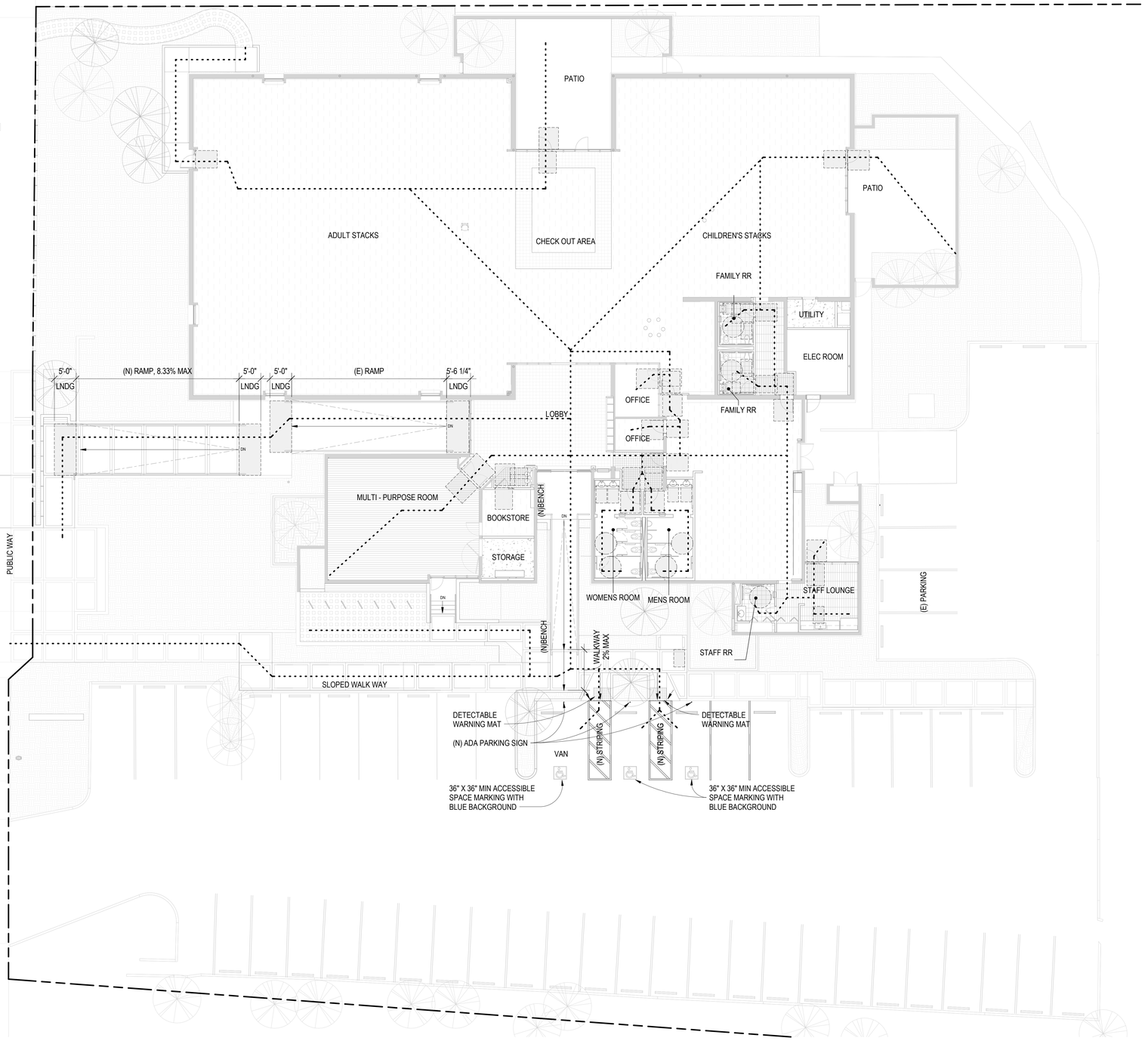


DOOR CLEARANCE

GENERAL CLEARANCE

SHEET NOTES

1. CRITERIA BASED ON 2022 CALIFORNIA BUILDING CODE AND 2010 DOJ ACCESSIBILITY STANDARDS.
2. DIAGRAMS IDENTIFIES ACCESSIBLE ROUTE AND GENERAL CLEARANCES REQUIRED WITH COMPONENTS ESTABLISHING MINIMUM CRITERIA FOR COMPLIANCE.
3. REFER TO SUBSEQUENT DRAWING SERIES FOR CONSTRUCTION DIMENSIONING.



GROUND LEVEL DISABLED ACCESS DIAGRAM 01

SCALE: 3/32" = 1'-0"

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No.	Description:	Date:
	100% SCHEMATIC DESIGN	11 OCT 2024
	100% DESIGN DEVELOPMENT	22 NOV 2024
	60% CONSTRUCTION DOCUMENT	07 MAR 2025
	ISSUED FOR PERMIT	20 MAR 2025
	90% CONSTRUCTION DOCUMENT	08 AUG 2025
	ISSUED FOR PERMIT REVISION 1	08 AUG 2025
	ISSUED FOR BID	13 OCT 2025

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LICENSED ARCHITECT
JEFFREY MILLER
C-37366
01/31/2027
RENEWAL
STATE OF CALIFORNIA

Sheet Name:

ADA DIAGRAMS

Project No.:	Sheet No.:
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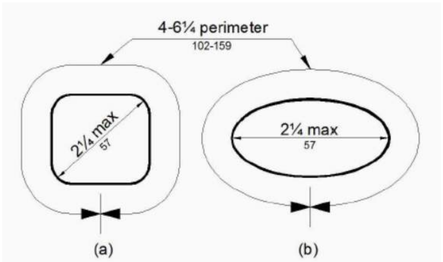


FIGURE 11B-505.7.2
HANDRAIL NON-CIRCULAR CROSS SECTION

HANDRAIL NON-CIRCULAR CROSS SECTIONS 12
SCALE: 1/2" = 1'-0"

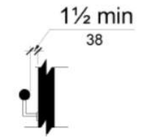


FIGURE 11B-505.5
HANDRAIL CLEARANCE

HANDRAIL CLEARANCE NTS 08

Where provided, curb ramp flares shall not be steeper than 1:10.

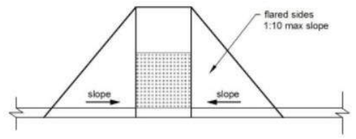


FIGURE *11B*-406.2.2

SIDES OF CURB RAMPS

SIDES OF CURB RAMPS NTS 05

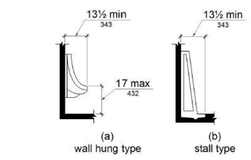
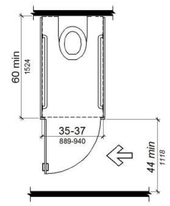


FIGURE 11B-605.2
HEIGHT AND DEPTH OF URINALS



11B-604.8.2
AMBULATORY ACCESSIBLE TOILET COMPARTMENT

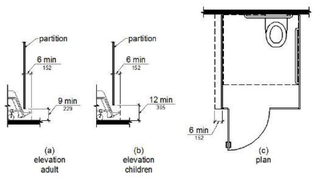


FIGURE 11B-604.8.1.4
WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT TOE CLEARANCE

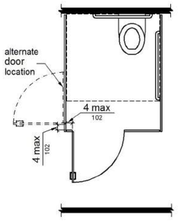


FIGURE 11B-604.8.1.2
WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT DOORS

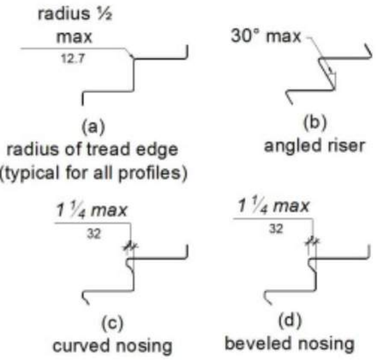
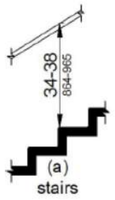
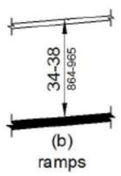


FIGURE *11B*-504.5

STAIR NOSING 11
SCALE: 1/2" = 1'-0"





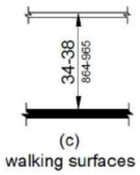


FIGURE 11B-505.4
HANDRAIL HEIGHT

HANDRAIL HEIGHT NTS 07

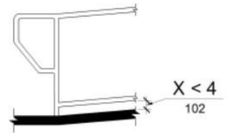
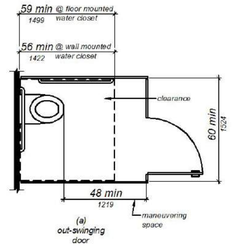


FIGURE *11B*-405.9.2

CURB OR BARRIER EDGE PROTECTION

CURB OR BARRIER EDGE PROTECTION NTS 04



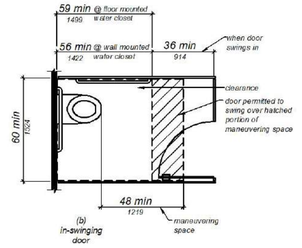


FIGURE 11B-604.8.1.1.3
MANEUVERING SPACE WITH END-OPENING DOOR

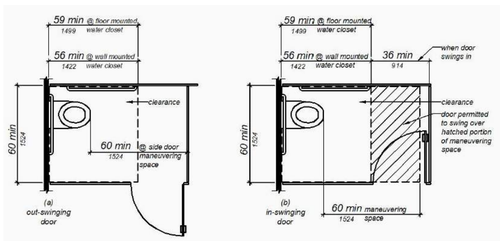
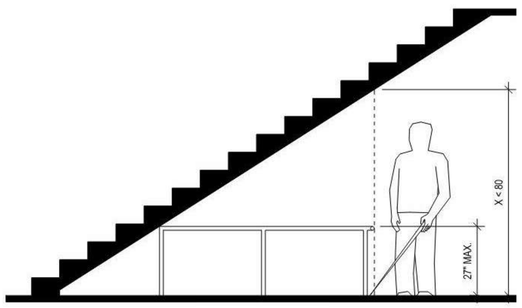


FIGURE 11B-604.8.1.1.2
MANEUVERING SPACE WITH SIDE-OPENING DOOR



VERTICAL CLEARANCE 10
SCALE: 1/2" = 1'-0"

Note: X = tread depth

FIGURE 11B-505.10.3
BOTTOM HANDRAIL EXTENSION AT STAIRS

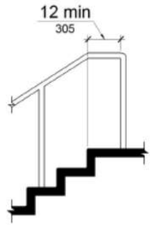
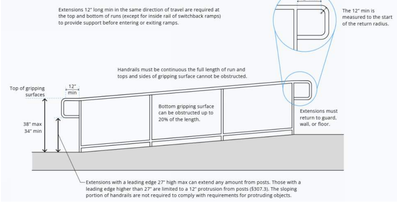
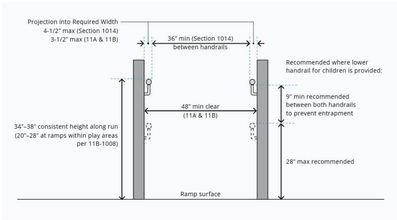


FIGURE 11B-505.10.2
TOP HANDRAIL EXTENSION AT STAIRS



RAMP HANDRAIL HEIGHT AND CLEARANCE NTS 03



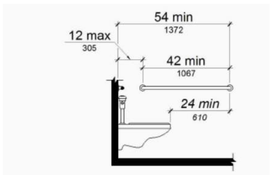


FIGURE 11B-604.5.1
SIDE WALL GRAB BAR AT WATER CLOSETS

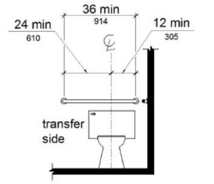


FIGURE 11B-604.5.2
REAR WALL GRAB BAR AT WATER CLOSETS

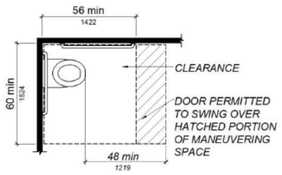


FIGURE 11B-604.3.1
SIZE OF CLEARANCE AT WATER CLOSETS

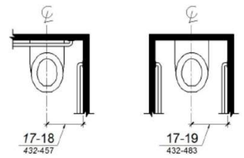
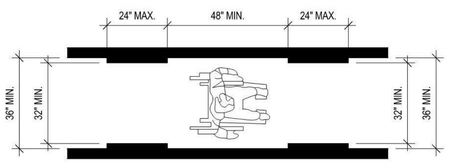


FIGURE 11B-604.2
WATER CLOSET LOCATION

WATER CLOSET CLEARANCES NTS 01



CLEAR WIDTH OF AN ACCESSIBLE ROUTE 09
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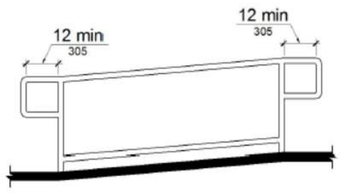

FIGURE 11B-505.10.1
TOP AND BOTTOM HANDRAIL EXTENSION AT RAMPS

HANDRAIL EXTENSIONS NTS 06

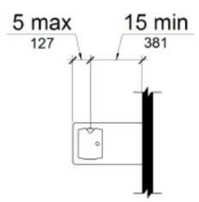

FIGURE 11B-602.5
DRINKING FOUNTAIN SPOUT LOCATION

DRINKING FOUNTAIN SPOUT LOCATION NTS 02

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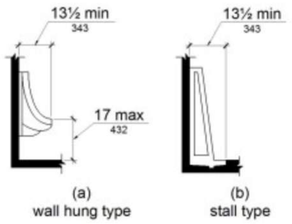
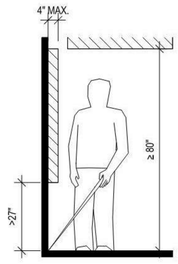


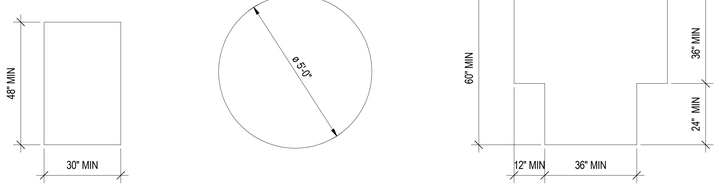
FIGURE *11B*-605.2

HEIGHT AND DEPTH OF URINALS

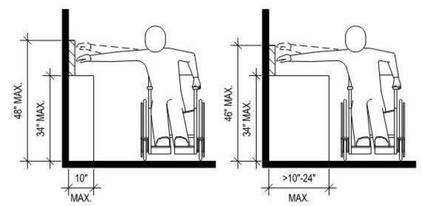
HEIGHT AND DEPTH OF URINALS
NTS 17



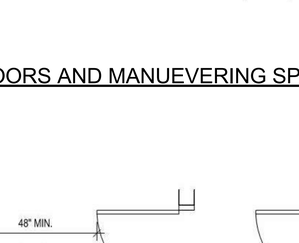
LIMITS OF POTRUDING OBJECTS
NTS 13



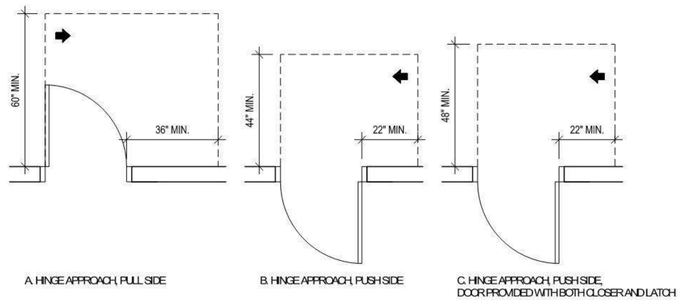
WHEELCHAIR ACCESSIBLE SPACE
SCALE: 1/2" = 1'-0" 09



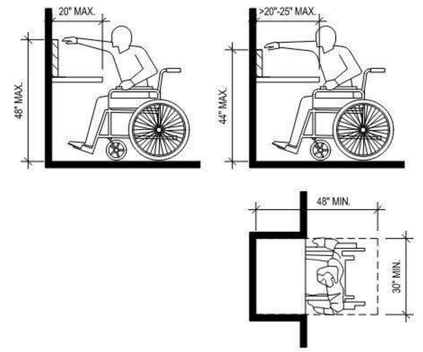
OBSTRUCTED HIGH SIDE REACH
NTS 05



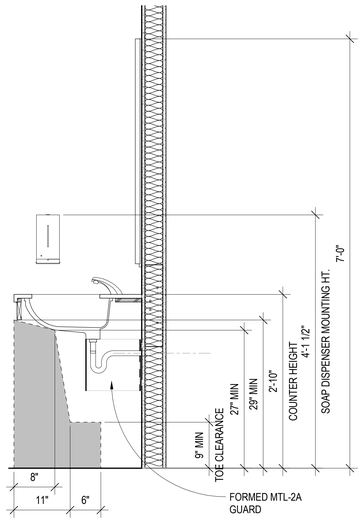
DETECTABLE WARNING SURFACE
NTS 12



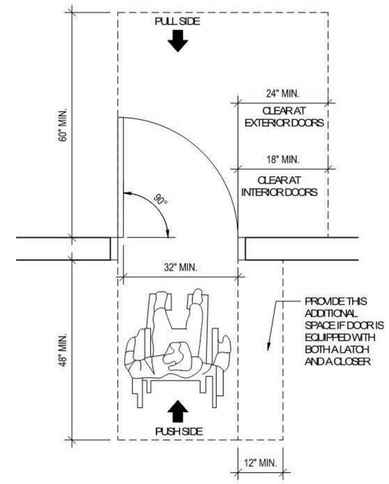
MANUEVERING CLEARANCES - HINGE APPROACH
NTS 08



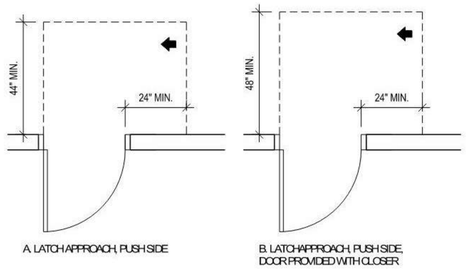
OBSTRUCTED HIGH FORWARD REACH
NTS 04



LAVATORY CLEARANCE
NTS 15

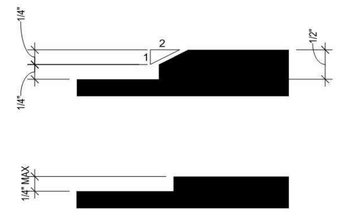


DOORS AND MANUEVERING SPACE
NTS 11

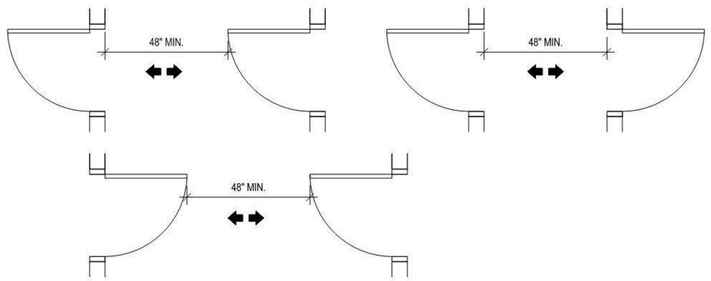


MANUEVERING CLEARANCES - LATCH APPROACH
NTS 07

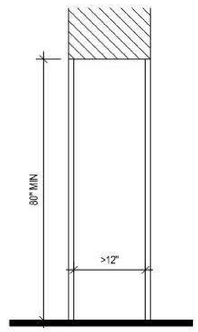
UNOBSTRUCTED FORWARD REACH
NTS 03

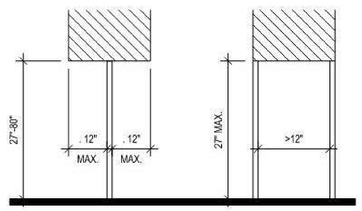


CHANGE IN LEVEL
NTS 14

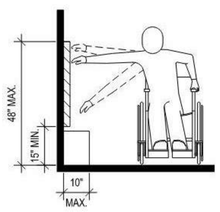


DOORS IN SERIES
NTS 10

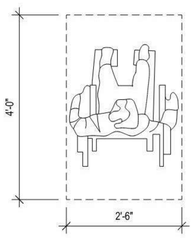




POST-MOUNTED PROTRUDING OBJECTS
NTS 06



UNOBSTRUCTED SIDE REACH
NTS 02



CLEAR FLOOR OR GROUND SPACE
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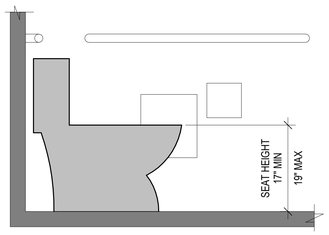
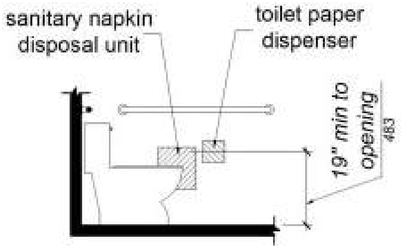
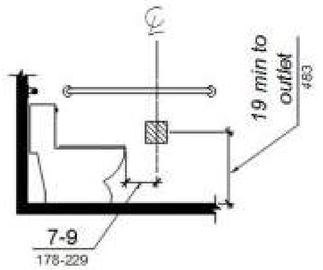


TOILET SEAT HEIGHT DIAGRAM 19
SCALE: 1/2" = 1'-0"



SANITARY NAPKIN DISPENSER OUTLET LOCATION 18
SCALE: 1/2" = 1'-0"



TOILET PAPER DISPENSER OUTLET LOCATION 16
SCALE: 1/2" = 1'-0"

11B-604.9 Water Closets and Toilet Compartments for Children's Use

Water closets and toilet compartments for children's use shall comply with *Section 11B*-604.9. *When the exception in Section 11B-604.1 is used, the suggested dimensions of Table 11B-604.9 for a single age group shall be applied consistently to the installation of a water closet and all associated components.*

TABLE 11B-604.9

SUGGESTED DIMENSIONS FOR CHILDREN'S USE

SUGGESTED DIMENSIONS FOR WATER CLOSETS SERVING CHILDREN AGES 3 THROUGH 12			
	Ages 3 and 4	**Ages 5 through 8**	**Ages 9 through 12**
Water Closet Centerline	12 inches (305 mm)	12 to 15 inches (305 to *381* mm)	15 to 18 inches (*381* to *457* mm)
Toilet Seat Height	11 to 12 inches (*279* to 305 mm)	12 to 15 inches (305 to *381* mm)	15 to 17 inches (*381* to *432* mm)
Grab Bar Height	18 to 20 inches (*457* to *508* mm)	20 to 25 inches (*508* to 635 mm)	25 to 27 inches (635 to *686* mm)
Dispenser Height	14 inches (*356* mm)	14 to 17 inches (*356* to *432* mm)	17 to 19 inches (*432* to *483* mm)

SUGGESTED REACH RANGES FOR CHILDREN 04
SCALE: 3/4" = 1'-0"

***11B*-604.9.1 Location.** The water closet shall be located with a wall or partition to the rear and to one side. The centerline of the water closet shall be 12 inches (305 mm) minimum and 18 inches (*457* mm) maximum from the side wall or partition, except that the water closet shall be 17 inches (*432* mm) minimum and 19 inches (*483* mm) maximum from the side wall or partition in the ambulatory accessible toilet compartment specified in *Section 11B*-604.8.2. Compartments shall be arranged for left-hand or right-hand approach to the water closet.

***11B*-604.9.2 Clearance.** Clearance around a water closet shall comply with *Section 11B*-604.3.

***11B*-604.9.3 Height.** The height of water closets shall be 11 inches (*279* mm) minimum and 17 inches (*432* mm) maximum measured to the top of the seat. Seats shall not be sprung to return to a lifted position.

***11B*-604.9.4 Grab bars.** Grab bars for water closets shall comply with *Section 11B*-604.5.

***11B*-604.9.5 Flush controls.** Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with *Sections 11B*-309.2 and *11B*-309.4 and shall be installed 36 inches (*914* mm) maximum above the finish floor. Flush controls shall be located on the open side of the water closet except in ambulatory accessible compartments complying with *Section 11B*-604.8.2.

***11B*-604.9.6 Dispensers.** Toilet paper dispensers shall comply with *Section 11B*-309.4 and shall be 7 inches (*178* mm) minimum and 9 inches (*229* mm) maximum in front of the water closet measured to the centerline of the dispenser. The outlet of the dispenser shall be 14 inches (*356* mm) minimum and 19 inches (*483* mm) maximum above the finish floor. There shall be a clearance of 1½ inches (38 mm) minimum below the grab bar. Dispensers shall not be of a type that controls delivery or that does not allow continuous paper flow.

***11B*-604.9.7 Toilet compartments.** Toilet compartments shall comply with *Section 11B*-604.8.

SUGGESTED MOUNTING HEIGHT FOR CHILDREN 03
SCALE: 3/4" = 1'-0"

11B-604.9 Water Closets and Toilet Compartments for Children's Use

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TABLE 11B-604.9

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SUGGESTED DIMENSIONS FOR CHILDREN USE 01
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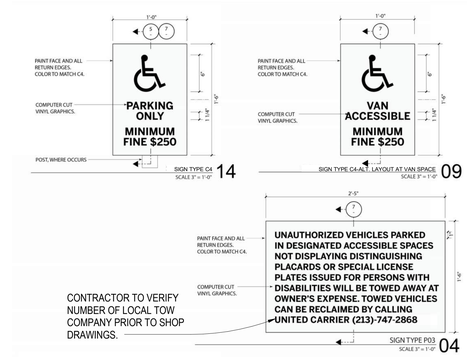
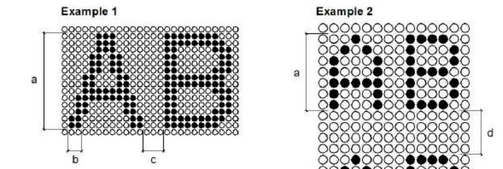


ADA SIGNAGE 02
SCALE: 1/2" = 1'-0"



	Property	Example 1	Example 2
a	Character Height	14 Pixels	7 Pixels
b	Stroke Width	2 Pixels	1 Pixels
c	Character Spacing	3 Pixels	2 Pixels
d	Line Spacing		4 Pixels

FIGURE 11B-703.8.5
LOW RESOLUTION VMS CHARACTERS

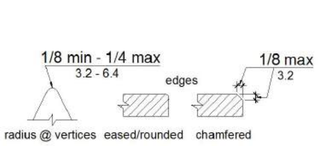


FIGURE 11B-703.7.2.6.4
EDGES AND VERTICES ON GEOMETRIC SYMBOLS

FIGURE 11B-703.7.2.4
INTERNATIONAL SYMBOL OF ACCESS FOR HEARING LOSS

FIGURE 11B-703.7.2.3
VOLUME CONTROL TELEPHONE

FIGURE 11B-703.7.2.2
INTERNATIONAL SYMBOL OF TTY

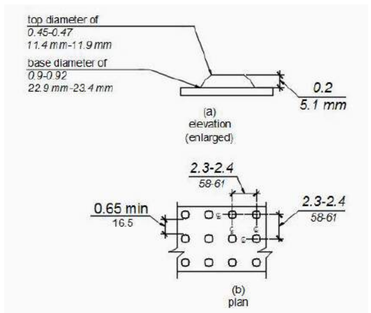


FIGURE 11B-705.1
SIZE AND SPACING OF TRUNCATED DOMES

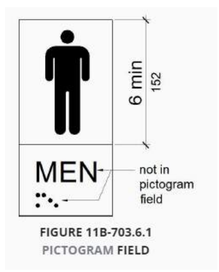


FIGURE 11B-703.6.1
PICTOGRAM FIELD

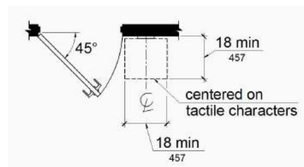


FIGURE 11B-703.4.2
LOCATION OF TACTILE SIGNS AT DOORS

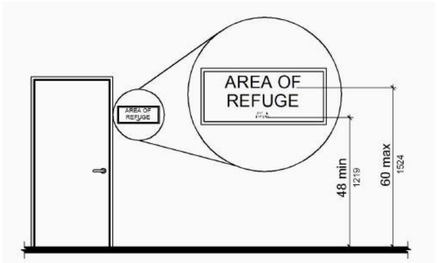


FIGURE 11B-703.4.1
HEIGHT OF TACTILE CHARACTERS ABOVE FINISH FLOOR OR GROUND

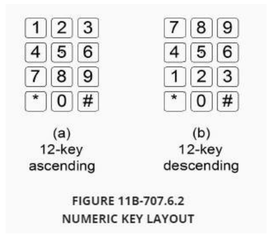


FIGURE 11B-707.6.2
NUMERIC KEY LAYOUT

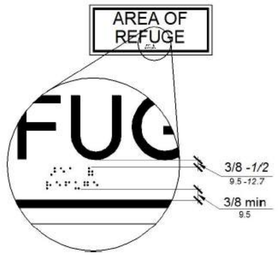


FIGURE 11B-703.3.2
POSITION OF BRAILLE

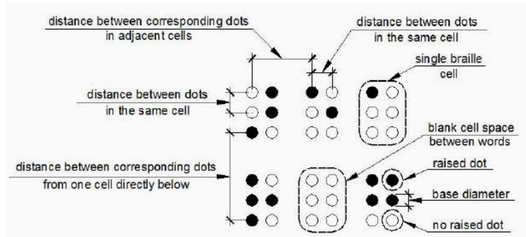


FIGURE 11B-703.3.1
BRAILLE MEASUREMENT

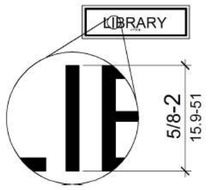


FIGURE 11B-703.2.5
HEIGHT OF RAISED CHARACTERS

BRAILLE, SIGNS, AND SYMBOLS 01
SCALE: 1/2" = 1'-0"

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Sheet No.: A044

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AIA California 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (July 2024 Supplement)

Y = YES
N/A = NOT APPLICABLE
RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

CHAPTER 3
GREEN BUILDING
SECTION 301 GENERAL

301.1 SCOPE. Buildings shall be designed to include the green building measures specified as mandatory in the application checklists contained in this code. Voluntary green building measures are also included in the application checklists and may be included in the design and construction of structures covered by this code, but are not required unless adopted by a city, county, or city and county as specified in Section 101.7.

301.3 NONRESIDENTIAL ADDITIONS AND ALTERATIONS. [BSC-CG] The provisions of individual sections of Chapter 5 apply to newly constructed buildings, building additions of 1,000 square feet or greater, and/or building alterations with a permit valuation of $200,000 or above (for occupancies within the authority of California Building Standards Commission). Code sections relevant to additions and alterations shall only apply to the portions of the building being added or altered within the scope of the permitted work.

A code section will be designated by a banner to indicate where the code section only applies to newly constructed buildings [N] or to additions and/or alterations [A]. When the code section applies to both, no banner will be used.

301.3.1 Nonresidential additions and alterations that cause updates to plumbing fixtures only:

Note: On and after January 1, 2014, certain commercial real property, as defined in Civil Code Section 1101.3, shall have its noncompliant plumbing fixtures replaced with appropriate water-conserving plumbing fixtures under specific circumstances. See Civil Code Section 1101.1 *et seq.* for definitions, types of commercial real property affected, effective dates, circumstances necessitating replacement of noncompliant plumbing fixtures, and duties and responsibilities for ensuring compliance.

301.3.2 Waste Diversion. The requirements of Section 5.408 shall be required for additions and alterations whenever a permit is required for work.

301.4 PUBLIC SCHOOLS AND COMMUNITY COLLEGES. (see GBSC)
301.5 HEALTH FACILITIES. (see GBSC)

SECTION 302 MIXED OCCUPANCY BUILDINGS

302.1 MIXED OCCUPANCY BUILDINGS. In mixed occupancy buildings, each portion of a building shall comply with the specific green building measures applicable to each specific occupancy.

SECTION 303 PHASED PROJECTS

303.1 PHASED PROJECTS. For shell buildings and others constructed for future tenant improvements, only those code measures relevant to the building components and systems considered to be new construction (or newly constructed) shall apply.

303.1.1 Initial Tenant improvements. The provisions of this code shall apply only to the initial tenant improvements to a project. Subsequent tenant improvements shall comply with the scoping provisions in Section 301.3 non-residential additions and alterations.

ABBREVIATION DEFINITIONS:

HCD	Department of Housing and Community Development
BSC	California Building Standards Commission
DSA-SS	Division of the State Architect, Structural Safety
OSHPD	Office of Statewide Health Planning and Development
LR	Low Rise
HR	High Rise
AA	Additions and Alterations
N	New

CHAPTER 5
NONRESIDENTIAL MANDATORY MEASURES
DIVISION 5.1 PLANNING AND DESIGN
SECTION 5.101 GENERAL

5.101.1 SCOPE
The provisions of this chapter outline planning, design and development methods that include environmentally responsible site selection, building design, building siting and development to protect, restore and enhance the environmental quality of the site and respect the integrity of adjacent properties.

SECTION 5.102 DEFINITIONS

5.102.1 DEFINITIONS
The following terms are defined in Chapter 2 *(and are included here for reference)*

CUTOFF LUMINAIRES. Luminaires whose light distribution is such that the candela per 1000 lamp lumens does not numerically exceed 25 (2.5 percent) at an angle of 90 degrees above nadir, and 100 (10 percent) at a vertical angle of 80 degrees above nadir. This applies to all lateral angles around the luminaire.

ELECTRIC VEHICLE (EV). [BSC-CG, HCD] An automotive-type vehicle for on-road use, such as passenger automobiles, buses, trucks, vans, neighborhood electric vehicles, electric motorcycles and the like, primarily powered by an electric motor that draws current from a rechargeable storage battery, fuel cell, photovoltaic array or other source of electric current. Plug-in hybrid electric vehicles (PHEV) are considered electric vehicles. For purposes of the California Electrical Code, off-road, self-propelled electric vehicles, such as industrial trucks, hoists, lifts, transports, golf carts, airline ground support equipment, tractors, boats and the like, are not included.

ELECTRIC VEHICLE (EV) CAPABLE SPACE. [BSC-CG, DSA-SS and HCD] A vehicle space with electrical panel space and load capacity to support a branch circuit and necessary raceways, both underground and/or surface mounted, to support EV charging.

ELECTRIC VEHICLE (EV) CHARGER. [BSC-CG, HCD] Off-board charging equipment used to charge an electric vehicle.

ELECTRIC VEHICLE CHARGING SPACE (EV SPACE). [HCD] A space intended for future installation of EV charging equipment and charging of electric vehicles.

ELECTRIC VEHICLE CHARGING STATION (EVCS). [BSC-CG, DSA-SS, HCD] One or more electric vehicle charging spaces served by EVSE or receptacle(s).

ELECTRIC VEHICLE (EV) READY SPACE. [HCD] A vehicle space which is provided with a branch circuit; any necessary raceways, both underground and/or surface mounted; to accommodate EV charging, terminating in a receptacle or a charger.

ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE).[BSC-CG, DSA-SS and HCD] The conductors, including the ungrounded, grounded and equipment grounding conductors and the electric vehicle connectors, attachment plugs, personnel protection system, and all other fittings, devices, power outlets or apparatus installed specifically for the purpose of transferring energy between the premises wiring and the electric vehicle.

SECTION 5.105 DECONSTRUCTION AND REUSE OF EXISTING STRUCTURES

5.105.1 Scope. [BSC-CG] Effective July 1, 2024, alteration(s) to existing building(s) where the combined altered floor area is 100,000 square feet or greater shall comply with either Section 5.105.2, 5.409.2, or 5.409.3. Addition(s) to existing building(s) where the total floor area combined with the existing building(s) is 100,000 square feet or greater shall comply with either Section 5.105.2, Section 5.409.2, or Section 5.409.3. Effective January 1, 2026, the combined floor area shall be 50,000 square feet or greater.

[DSA-SS] Alteration(s) to existing building(s) where the combined altered floor area is 50,000 square feet or greater shall comply with either Section 5.105.2, 5.409.2, or 5.409.3. Addition(s) to existing building(s) where the total floor area combined with the existing building(s) is 50,000 square feet or greater shall comply with either Section 5.105.2, Section 5.409.2, or Section 5.409.3.

Exception [BSC-CG, DSA-SS]: Combined addition(s) to existing building(s) of two times the area or more of the existing building(s) is not eligible to meet compliance with Section 5.105.2.

☒ ☐ ARCH **5.105.2 Reuse of existing building.** An alteration or addition to an existing building shall maintain at a minimum 45 percent combined of the existing building's primary structural elements (foundations; columns, beams, walls, and floors; and lateral elements) and existing building enclosure (roof framing, wall framing and exterior finishes). Window assemblies, insulation, portions of buildings deemed structurally unsound or hazardous, and hazardous materials that are remediated as part of the project shall not be included in the calculation.

5.105.2.1 Verification of compliance. Documentation shall be provided in the construction documents to demonstrate compliance with Section 5.105.2.

Note: Sample Worksheet WS-3 in Chapter 8 may be used to assist in documenting compliance with this section.

5.105.3 Deconstruction (Reserved).

SECTION 5.106 SITE DEVELOPMENT

☒ ☐ CIVIL **5.106.1 STORM WATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB LESS THAN ONE ACRE OF LAND.** Newly constructed projects and additions which disturb less than one acre of land, and are not part of a larger common plan of development or sale, shall prevent the pollution of storm water runoff from the construction activities through one or more of the following measures:

5.106.1.1 Local ordinance. Comply with a lawfully enacted storm water management and/or erosion control ordinance.

5.106.1.2 Best Management Practices (BMPs). Prevent the loss of soil through wind or water erosion by implementing an effective combination of erosion and sediment control and good housekeeping BMPs.

1. Soil loss BMPs that should be considered for implementation as appropriate for each project include, but are not limited to, the following:
   a. Scheduling construction activity during dry weather, when possible.
   b. Preservation of natural features, vegetation, soil, and buffers around surface waters.
   c. Drainage swales or lined ditches to control stormwater flow.
   d. Mulching or hydroseeding to stabilize disturbed soils.
   e. Erosion control to protect slopes.
   f. Protection of storm drain inlets (gravel bags or catch basin inserts).
   g. Perimeter sediment control (perimeter silt fence, fiber rolls).
   h. Sediment trap or sediment basin to retain sediment on site.
   i. Stabilized construction exits.
   j. Wind erosion control.
   k. Other soil loss BMPs acceptable to the enforcing agency.
2. Good housekeeping BMPs to manage construction equipment, materials, non-stormwater discharges and wastes that should be considered for implementation as appropriate for each project include, but are not limited to, the following:
   a. Dewatering activities.
   b. Material handling and waste management.
   c. Building materials stockpile management.
   d. Management of washout areas (concrete, paints, stucco, etc.).
   e. Control of vehicle/equipment fueling to contractor's staging area.
   f. Vehicle and equipment cleaning performed off site.
   g. Spill prevention and control.
   h. Other housekeeping BMPs acceptable to the enforcing agency.

☐ ☒ **5.106.2 STORMWATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB ONE OR MORE ACRES OF LAND.** Comply with all lawfully enacted stormwater discharge regulations for projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of a larger common plan of development sale.

Note: Projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of the larger common plan of development or sale must comply with the post-construction requirements detailed in the applicable National Pollutant Discharge Elimination System (NPDES) General permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities issued by the State Water Resources Control Board or the Lahontan Regional Water Quality Control Board (for projects in the Lake Tahoe Hydrologic Unit).

The NPDES permits require postconstruction runoff (post-project hydrology) to match the preconstruction runoff (pre-project hydrology) with the installation of postconstruction stormwater management measures. The NPDES permits emphasize runoff reduction through on-site stormwater use, interception, evapotranspiration, and infiltration through nonstructural controls, such as Low Impact Development (LID) practices, and conversation design measures. Stormwater volume that cannot be addressed using nonstructural practices is required to be captured in structural practices and be approved by the enforcing agency.

Refer to the current applicable permits on the State Water Resources Control Board website at: www.waterboards.ca.gov/constructionstormwater. Consideration to the stormwater runoff management measures should be given during the initial design process for appropriate integration into site development.

5.106.4 BICYCLE PARKING. For buildings within the authority of California Building Standards Commission as specified in Section 103, comply with Section 5.106.4.1. For buildings within the authority of the Division of the State Architect pursuant to Section 105, comply with Section 5.106.4.2

☒ ☐ ARCH **5.106.4.1 Bicycle parking. [BSC-CG]** Comply with Sections 5.106.4.1.1 and 5.106.4.1.2; or meet the applicable local ordinance, whichever is stricter.

5.106.4.1.1 Short-term bicycle parking. If the new project or an addition or alteration is anticipated to generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily visible to passers-by, for 5% of new visitor motorized vehicle parking spaces being added, with a minimum of one two-bike capacity rack.
Exception: Additions or alterations which add nine or less visitor vehicular parking spaces.

5.106.4.1.2 Long-term bicycle parking. For new buildings with tenant spaces that have 10 or more tenant-occupants, provide secure bicycle parking for 5 percent of the tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility.

5.106.4.1.3 For additions or alterations that add 10 or more tenant-occupant vehicular parking spaces, provide secure bicycle parking for 5 percent of the tenant vehicular parking spaces being added, with a minimum of one bicycle parking facility.

5.106.4.1.4 For new shell buildings in phased projects provide secure bicycle parking for 5 percent of the anticipated tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility.

5.106.4.1.5 Acceptable bicycle parking facility for Sections 5.106.4.1.2, 5.106.4.1.3, and 5.106.4.1.4 shall be convenient from the street and shall meet one of the following:

1. Covered, lockable enclosures with permanently anchored racks for bicycles;
2. Lockable bicycle rooms with permanently anchored racks; or
3. Lockable, permanently anchored bicycle lockers.

Note: Additional information on recommended bicycle accommodations may be obtained from Sacramento Area Bicycle Advocates.

☐ ☒ **5.106.4.2 Bicycle parking. [DSA-SS]** For public schools and community colleges, comply with Sections 5.106.4.2.1 and 5.106.4.2.2

5.106.4.2.1 Student bicycle parking. Provide permanently anchored bicycle racks conveniently accessed with a minimum of four two-bike capacity racks per new building.
5.106.4.2.2 Staff bicycle parking. Provide permanent, secure bicycle parking conveniently accessed with a minimum of two staff bicycle parking spaces per new building .Acceptable bicycle parking facilities shall be convenient from the street or staff parking area and shall meet one of the following:

1. Covered, lockable enclosures with permanently anchored racks for bicycles;
2. Lockable bicycle rooms with permanently anchored racks; or
3. Lockable, permanently anchored bicycle lockers.

☐ ☒ **5.106.5.3 Electric vehicle (EV) charging. [N] [BSC-CG]** Construction to provide electric vehicle infrastructure and facilitate electric vehicle charging shall comply with Section 5.106.5.3.1 EV capable spaces, Section 5.106.5.3.2 Electric vehicle charging stations and associated Table 5.106.5.3.1, or Section 5.106.5.3.6 Electric vehicle charging stations (EVCS)—Power allocation method and associated Table 5.106.5.3.6 and shall be provided in accordance with regulations in the *California Building Code* and the *California Electrical Code*.

Exceptions:
1. On a case-by-case basis where the local enforcing agency has determined compliance with this section is not feasible based upon one of the following conditions:
   a. Where there is no local utility power supply
   b. Where the local utility is unable to supply adequate power.
   c. Where there is evidence suitable to the local enforcement agency substantiating the local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.
2. Parking spaces accessible only by automated mechanical car parking systems are not required to comply with this code section.

5.106.5.3.1 EV capable spaces. [N] EV capable spaces shall be provided in accordance with Table 5.106.5.3.1 and the following requirements:
1. Raceways complying with the California Electrical Code and no less that 1-inch (25 mm) diameter shall be provided and shall originate at a service panel or a subpanel(s) serving the area, and shall terminate in close proximity to the proposed location of the EV capable space and into a suitable listed cabinet, box,enclosure or equivalent. A common raceway may be used to serve multiple EV charging spaces.
2. A service panel or subpanel (s) shall be provided with panel space and electrical load capacity for a dedicated 208/240 volt, 40-ampere minimum branch circuit for each EV capable space, with delivery of 30-ampere minimum to an installed EVSE at each EVCS.
3. The electrical system and any on-site distribution transformers shall have sufficient capacity to supply full rated amperage at each EV capable space.
4. The service panel or subpanel circuit directory shall identify the reserved overcurrent protective devices space(s) as "EV CAPABLE". The raceway termination location shall be permanently and visibly marked as "EV CAPABLE."

Note: A parking space served by electric vehicle supply equipment or designed as a future EV charging space shall count as at least one standard automobile parking space only for the purpose of complying with any applicable minimum parking space requirements established by an enforcement agency. See vehicle Code Section 22511.2 for further details.

TABLE 5.106.5.3.1		
TOTAL NUMBER OF ACTUAL PARKING SPACES	**NUMBER OF REQUIRED EV CAPABLE SPACES**	**NUMBER OF EVCS (EV CAPABLE SPACES PROVIDED WITH EVSE)[a,2]**
0-9	0	0
10-25	2	0
26-50	8	2
51-75	13	3
76-100	17	4
101-150	25	6
151-200	35	9
201 AND OVER	20 percent of actual parking spaces[1]	25 percent of EV capable spaces[1]

1. Calculation for spaces shall be rounded up to the nearest whole number.
2. The number of required EVCS (EV capable spaces provided with EVSE) in column 3 count toward the total number of required EV capable spaces shown in column 2.
3. At least one Level 2 EVSE shall be provided.

5.106.5.3.2 Electric vehicle charging stations (EVCS) EV capable spaces shall be provided with electric vehicle supply equipment (EVSE) to create EVCS in the number indicated in Table 5.106.5.3.1. The EVCS required by Table 5.106.5.3.1 shall be provided with Level 2 EVSE or DCFC as permitted in Section 5.106.5.3.2.1. At least one Level 2 EVSE shall be provided.

One EV charger with multiple connectors capable of charging multiple EVs simultaneously shall be permitted if the electrical load capacity required by Section 5.106.5.3.1 for each EV capable space is accumulatively supplied to the EV charger.

The installation of each DCFC EVSE shall be permitted to reduce the minimum number of required EV capable spaces without EVSE by five and reduce proportionally the required electrical load capacity to the service panel or subpanel.

5.106.5.3.2.1 The installation of each DCFC EVSE shall be permitted to reduce the minimum number of required EV capable spaces without EVSE or EVCS with Level 2 EVSE by five and reduce proportionally the required electrical load capacity to the service panel or subpanel.

5.106.5.3.2.2 The installation of two low power Level 2 EV charging receptacles shall be permitted to reduce the minimum number of required EV capable spaces without EVSE in Table 5.106.5.3.1 by one.

5.106.5.3.3 Use of automatic load management systems (ALMS).
ALMS shall be permitted for EVCS. When ALMS is installed, the required electrical load capacity specified in Section 5.106.5.3.1 for each EVCS may be reduced when serviced by an EVSE controlled by an ALMS. Each EVSE controlled by an ALMS shall deliver a minimum 30 amperes to an EV when charging one vehicle and shall deliver a minimum 3.3 kW while simultaneously charging multiple EVs.

5.106.5.3.4 Accessible EVCS.
When EVSE is installed, accessible EVSC shall be provided in accordance with the *California Building Code*, Chapter 11B, Section 11B-228.3.

Note: For EVCS signs, refer to Caltrans Traffic Operations Policy Directive 13-01 (Zero Emission Vehicle Signs and Pavement Markings) or its successor(s).

5.106.5.3.4 Accessible electric vehicle charging station (EVCS). When EVSE is installed, accessible EVCS shall be provided in accordance with the *California Building Code*, Chapter 11B, Section 11B-228.3.

5.106.5.3.5 Electric vehicle charging station signage. Electric vehicle charging stations shall be identified by signage or pavement markings in compliance with Caltrans Traffic Operations Policy Directive 13-01 (Zero Emission Vehicle Signs and Pavement Markings) or its successor(s).

Power allocation method shall include the following:
1. Use any kVA combination of EV capable spaces, low power Level 2, Level 2 or DCFC EVSEs.
2. At least one Level 2 EVSE shall be provided.

5.106.5.3.6 Electric vehicle charging stations (EVCS)—power allocation method. The power allocation method may be used as an alternative to the requirements in Section 5.106.5.3.1, Section 5.106.5.3.2 and associated Table 5.106.5.3.1. Use Table 5.106.5.3.6 to determine the total power in kVA required based on the total number of actual parking spaces.

TABLE 5.106.5.3.6		
TOTAL NUMBER OF ACTUAL PARKING SPACES	**MINIMUM TOTAL kVA @ 6.6 kVA**	**TOTAL kVA REQUIRED IN ANY COMBINATION OF EV CAPABLE,3,4 LOW POWER LEVEL 2, LEVEL 2, 1, 2 OR DCFC**
0-9	0	0
10-25	26.4	26.4
26-50	52.8	52.8
51-75	85.8	85.8
76-100	112.2	112.2
101-150	165	165
151-200	231	231
201 AND OVER	20 percent of actual parking spaces x 6.6	Total required kVA = P × .20 × 6.6 Where P = Parking spaces in facility

1. Level 2 EVSE @ 6.6 kVA minimum.
2. At least one Level 2 EVSE shall be provided.
3. Maximum allowed kVA to be utilized for EV capable spaces is 75 percent.
4. If EV capable spaces are utilized, they shall meet the requirements of Section 5.106.5.3.1 EV capable spaces.

☒ ☐ ELEC **5.106.5.4 Additions or alterations to existing buildings or parking facilities [A]. [BSC-CG]** Existing buildings or parking facilities being modified by one of the following shall comply with Section 5.106.5.4.1 or 5.106.5.4.2. When EVSE is installed, accessible EVCS shall be provided in accordance with the *California Building Code*, Chapter 11B, Section 11B-228.3.

1. When the scope of construction work includes an increase in power supply to an electric service panel as part of a parking facility addition or alteration.
2. When a new photovoltaic system is installed covering existing parking spaces.
3. When additions or alterations to existing buildings are triggered pursuant to code Section 301.3 and the scope of work includes an increase in power supply to an electric service panel.

Exceptions:
1. On a case-by-case basis where the local enforcing agency has determined compliance with this section is not feasible based upon one of the following conditions:
   a. Where there is no local utility power supply.
   b. Where the local utility is unable to supply adequate power.
   c. Where there is evidence suitable to the local enforcement agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.
   d. Where demonstrated as impracticable excluding local utility service or utility infrastructure issues.
2. Remote parking facilities that do not have access to the building service panel.
3. Parking area lighting upgrades where no trenching is part of the scope of work.
4. Emergency repairs, including but not limited to water line break in parking facilities, natural disaster repairs, etc.

5.106.5.4.1 Existing buildings or parking areas without previously installed EV capable infrastructure [A]. When EV capable infrastructure does not exist at an existing parking facility or building, and the parking facility or building undergoes an addition or alteration listed in Section 5.106.5.4, construction shall include electric vehicle charging in compliance with either Section 5.106.5.3 and associated Table 5.106.5.3.1, or Section 5.106.5.3.6 and associated Table 5.106.5.3.6 for the total number of actual parking spaces being added or altered.

5.106.5.4.2 Existing buildings or parking areas with previously installed EV capable infrastructure [A]. When EV capable infrastructure is available at an existing parking facility or building, and the parking facility or building is undergoing an addition or alteration listed in Section 5.106.5.4, construction shall include electric vehicle charging in compliance with either Section 5.106.5.3 and associated Table 5.106.5.3.1, or Section 5.106.5.3.6 and associated Table 5.106.5.3.6 utilizing the existing EV capable allocated power and infrastructure for the total number of actual parking spaces being added or altered. If the area being added or altered exceeds the existing EV capable capacity, allocated power and infrastructure, provide additional EV charging as needed to comply with this section.

☐ ☒ **5.106.5.5 Electric vehicle (EV) charging: medium-duty and heavy-duty. [N] [BSG-CG]** Construction shall comply with Section 5.106.5.5.1 to facilitate future installation of electric vehicle supply equipment (EVSE). Construction for warehouses, grocery stores and retail stores, office buildings, and manufacturing facilities with planned off-street loading spaces shall also comply with Section 5.106.5.5.1 for future installation of medium- and heavy-duty EVSE.

Exceptions:
1. On a case-by-case basis where the local enforcing agency has determined compliance with this section is not feasible based upon one of the following conditions:
   a. Where there is no local utility power supply.
   b. Where the local utility is unable to supply adequate power.
   c. Where there is evidence suitable to the local enforcing agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.

When EVSE(s) is/are installed, it shall be in accordance with the *California Building Code*, the *California Electrical Code* and as follows:

5.106.5.5.1 Electric vehicle charging readiness requirements for warehouses, grocery stores, office buildings, and manufacturing facilities and retail stores with planned off-street loading spaces. [N]

In order to avoid future demolition when adding EV supply and distribution equipment, spare raceway(s) or busway(s) and adequate capacity for transformer(s), service panel(s) or subpanel(s) shall be installed at the time of construction in accordance with the *California Electrical Code*. Construction plans and specifications shall include, but are not limited to, the following:

1. The transformer, main service equipment and subpanels shall meet the minimum power requirement in Table 5.106.5.5.1 to accommodate the dedicated branch circuits for the future installation of EVSE.

2. The construction documents shall indicate one or more location(s) convenient to the planned off-street loading space(s) reserved for medium- and heavy-duty ZEV charging cabinets and charging dispensers, and a pathway reserved for routing of conduit from the termination of the raceway(s) or busway(s) to the charging cabinet(s) and dispenser(s), as shown in Table 5.106.5.5.1.

3. Raceway(s) or busway(s) originating at a main service panel or a subpanel(s) serving the area where potential future medium- and heavy-duty EVSE will be located and shall terminate in close proximity to the potential future location of the charging equipment for medium- and heavy-duty vehicles.

4. The raceway(s) or busway(s) shall be of sufficient size to carry the minimum additional system load to the future location of the charging for medium- and heavy-duty ZEVs as shown in Table 5.106.5.5.1.

TABLE 5.106.5.5.1 RACEWAY CONDUIT AND PANEL POWER REQUIREMENTS FOR MEDIUM- AND HEAVY-DUTY EVSE [N]			
BUILDING TYPE	**BUILDING SIZE (SQ. FT.)**	**NUMBER OF OFF-STREET LOADING SPACES**	**ADDITIONAL CAPACITY REQUIRED (KVA) FOR RACEWAY & BUSWAY AND TRANSFORMER & PANEL**
Grocery	10,000 to 90,000	1 or 2	200
		3 or Greater	400
	Greater than 90,000	1 or Greater	400
Manufacturing Facilities	10,000 to 50,000	1 or 2	200
	10,000 to 50,000	3 or Greater	400
	Greater than 50,000	1 or Greater	400
Office Buildings	10,000 to 135,000	1 or 2	200
	10,000 to 135,000	3 or Greater	400
	Greater than 135,000	1 or Greater	400
Retail	10,000 to 135,000	1 or 2	200
		3 or Greater	400
	Greater than 135,000	1 or Greater	400
Warehouse	20,000 to 256,000	1 or 2	200
		3 or Greater	400
	Greater than 256,000	1 or Greater	400

5.106.5.6 Electric vehicle (EV) charging at public schools and community colleges. [DSA-SS] Electric vehicle infrastructure and electric vehicle charging stations shall comply with Section 5.106.5.6 and shall be provided in accordance with regulations in the California Building Code and the California Electrical Code.

Exceptions:
1. On a case-by-case basis where compliance with this section has been demonstrated to be not feasible based upon one of the following conditions,and with concurrence by the Division of the State Architect (DSA), compliance with Section 5.106.5.6 shall not be required.
   a. Where there is no local utility power supply
   b. Where the local utility is unable to supply adequate power.
   c. The installation of EVCS is impracticable.
2. Parking spaces accessible only by automated mechanical car parking systems are not required to comply with Section 5.106.5.6.

5.106.5.6.1 EV capable spaces. EV capable spaces shall be provided in accordance with Table 5.106.5.6.1 and the following requirements:

1. Raceways complying with the California Electrical Code and no less than 1-inch (25 mm) diameter shall be provided and shall originate at a service panel or a subpanel(s) serving the area and shall terminate in close proximity to the proposed location of the EV capable space and into a suitable listed cabinet, box, enclosure or equivalent. A common raceway may be used to serve multiple EV capable spaces.

2. A service panel or subpanel(s) shall be provided with panel space and electrical load capacity for a dedicated 208/240 volt, 40-ampere minimum branch circuit for each EV capable space, with delivery of 30-ampere minimum to an installed EVSE at each EVCS.

3. The electrical system and any on-site distribution transformers shall have sufficient capacity to supply full rated amperage at each EV capable space.

4. The service panel or subpanel circuit directory shall identify the reserved overcurrent protective device space(s) as "EV CAPABLE." The raceway termination location shall be permanently and visibly marked as "EV CAPABLE."

TABLE 5.106.5.6.1		
TOTAL NUMBER OF ACTUAL PARKING SPACES	**NUMBER OF REQUIRED EV CAPABLE SPACES**	**NUMBER OF REQUIRED EVCS[2]**
0-9	0	0
10-25	4	1
26-50	8	2
51-75	13	3
76-100	17	4
101-150	25	6
151-200	35	9
201 AND OVER	20 percent of total spaces[1]	25 percent of EV capable spaces[1]

1. Calculation for spaces shall be rounded up to the nearest whole number.
2. Each EVCS shall reduce the number of required EV capable spaces by the same number.

5.106.5.6.2 Electric vehicle charging stations (EVCS). EV capable spaces shall be provided with EVSE to create EVCS in the number indicated in Table 5.106.5.6.1 and shall comply with Section 5.106.5.6.2. EVCS shall be serviced by Level 2 or Direct Current Fast Charging (DCFC) EVSE, or with EVSE in any combination of Level 2 and DCFC. Accessible EVCS shall be provided in accordance with *California Building Code* Chapter 11B.

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	60% CONSTRUCTION DOCUMENT	07 MAR 2025
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LICENSED ARCHITECT JEFFREY A. MILLER C-37366 01/31/2027 RENEWAL DATE STATE OF CALIFORNIA

Sheet Name:
CAL GREEN CODE DOCUMENTATION

Project No.: 24.05
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2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 2 (July 2024 Supplement)

Y = YES
N/A = NOT APPLICABLE
RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

5.106.5.6.2.1 Reduced number of EV capable spaces. The installation of each DCFC EVSE shall be permitted to reduce the minimum number of required EV capable spaces indicated in Table 5.106.5.6.1 by five and reduce proportionally the required electrical load capacity to the service panel or subpanel.

5.106.5.6.2.2 Multiple connectors. EVSE with multiple vehicle connectors capable of charging multiple EVs simultaneously shall be permitted if the electrical load capacity required by Section 5.106.5.6.1 for each EV capable space is accumulatively supplied to the EVSE.

5.106.5.6.2.3 Use of automatic load management systems (ALMS). ALMS shall be permitted for EVCS installed in accordance with Section 5.105.5.6.2. When ALMS is installed, the required electrical load capacity specified in Section 5.106.5.6.1 for each EVCS may be reduced when serviced by an EVSE controlled by an ALMS. Each EVSE controlled by an ALMS shall deliver a minimum 30 amperes to an EV when charging one vehicle and shall deliver a minimum 3.3 kW while simultaneously charging multiple EVs.

5.106.5.6.3 EVCS alternative compliance. In lieu of compliance with Section 5.106.5.6.2, EVCS shall be provided with Level 1, low power Level 2, or any combination of Level 1, low power Level 2 or Level 2 EVSE such that the total power supplied by the combination of EVSE meets the minimum power indicated in Table 5.106.5.6.3, based on the total number of actual parking spaces in each parking facility.

TABLE 5.106.5.6.3	
NUMBER OF PARKING SPACES IN A PARKING FACILITY	**MINIMUM TOTAL POWER (KVA) REQUIRED FOR EVCS**
0-9	0
10-25	7
26-50	14
51-75	20
76-100	27
101-150	40
151-200	60
201 AND OVER	Total required KVA = P × .05 × 6.6 Where P = Parking spaces in facility

5.106.5.6.4 EVCS for alterations of or additions to parking facilities. Alterations of or additions to parking facilities shall provide EVCS in compliance with Section 5.106.5.6.4. The installation of infrastructure for EV capable spaces required to be provided without EVSE shall not be required.

5.106.5.6.4.1 Alterations of and additions to parking facilities. EVCS shall be provided in accordance with the number indicated in Table 5.106.5.6.1 or minimum power indicated in Table 5.106.5.6.3 when the scope of work includes an increase in power supply to an electric panel serving light fixtures illuminating the parking area or when area containing parking spaces is added to a parking facility. The number of required EVCS shall be based on the total number of existing and new parking spaces in the parking facility.

5.106.5.6.4.2 Alterations consisting of the installation of photovoltaic systems. EVCS shall be provided in accordance with the number indicated in Table 5.106.5.6.1 or maximum power indicated in Table 5.106.5.6.3 when a new photovoltaic system is installed in an existing parking facility.

5.106.5.6.5 Requirement to install EVSE. Level 2 EVSE shall be provided in all existing EV capable spaces to create EVCS when a project is required by California Administrative Code Section 4-309 to be submitted for plan approval to the Division of the State Architect. When EVSE is installed in existing EV capable spaces, accessible EVCS shall be provided in accordance with *California Building Code* Chapter 11B.

Exception: Projects in which improvements in parking areas consist only of accessibility improvements are not required to comply with Section 5.106.5.6.5.

ELEC

5.106.8 LIGHT POLLUTION REDUCTION. [N]. Outdoor lighting systems shall be designed and installed to comply with the following:

1. The minimum requirements in the California Energy Code for Lighting Zones 0-4 as defined in Chapter 10, Section 10-114 of the California Administrative Code; and
2. Backlight (B) ratings as defined in IES TM-15-11 (shown in Table A-1 in Chapter 8);
3. Uplight and Glare ratings as defined in California Energy Code (shown in Tables 130.2-A and 130.2-B in Chapter 8) and
4. Allowable BUG ratings not exceeding those shown in Table 5.106.8. [N] or Comply with a local ordinance lawfully enacted pursuant to Section 101.7, whichever is more stringent.

Exceptions: [N]

1. Luminaires that qualify as exceptions in Sections 130.2 (b) and 140.7 of the California Energy Code.
2. Emergency lighting.
3. Building facade meeting the requirements in Table 140.7-B of the California Energy Code, Part 6.
4. Custom lighting features as allowed by the local enforcing agency, as permitted by Section 101.8 Alternate materials, designs and methods of construction.
5. Luminaires with less than 6,200 initial luminaire lumens.

TABLE 5.106.8 [N] MAXIMUM ALLOWABLE BACKLIGHT, UPLIGHT AND GLARE (BUG) RATINGS 1,2					
ALLOWABLE RATING	**LIGHTING ZONE LZ0**	**LIGHTING ZONE LZ1**	**LIGHTING ZONE LZ2**	**LIGHTING ZONE LZ3**	**LIGHTING ZONE LZ4**
MAXIMUM ALLOWABLE BACKLIGHT RATING 3					
Luminaire greater than 2 mounting heights (MH) from property line	N/A	No Limit	No Limit	No Limit	No Limit
Luminaire back hemisphere is 1-2 MH from property line	N/A	B2	B3	B4	B4
Luminaire back hemisphere is 0.5-1 MH from property line	N/A	B1	B2	B3	B3
Luminaire back hemisphere is less than 0.5 MH from property line	N/A	B0	B0	B1	B2
MAXIMUM ALLOWABLE UPLIGHT RATING (U)					
For area lighting 3	N/A	U0	U0	U0	U0
For all other outdoor lighting,including decorative luminaires	N/A	U1	U2	U3	UR
MAXIMUM ALLOWABLE GLARE RATING 3 (G)					
MAXIMUM ALLOWABLE GLARE RATING 3 (G)	N/A	G1	G2	G3	G4
MAXIMUM ALLOWABLE GLARE RATING 3 (G)	N/A	G0	G1	G1	G2
MAXIMUM ALLOWABLE GLARE RATING 3 (G)	N/A	G0	G0	G1	G1
MAXIMUM ALLOWABLE GLARE RATING 3 (G)	N/A	G0	G0	G0	G1

1. IESNA Lighting Zones 0 and 5 are not applicable; refer to Lighting Zones as defined in the *California Energy Code* and Chapter 10 of the *California Administrative Code*.

2. For property lines that abut public walkways, bikeways, plazas and parking lots, the property line may be considered to be 5 feet beyond the actual property line for purpose of determining compliance with this section. For property lines that abut public roadways and public transit corridors, the property line may be considered to be the centerline of the public roadway or public transit corridor for the purpose of determining compliance with this section.

3. General lighting luminaires in areas such as outdoor parking, sales or storage lots shall meet these reduced ratings. Decorative luminaries located in these areas shall meet *U*-value limits for "all other outdoor lighting"

5.106.8.1 Facing- Backlight
Luminaries within 2MH of a property line shall be oriented so that the nearest property line is behind the fixture, and shall comply with the backlight rating specified in Table 5.106.8 based on the lighting zone and distance to the nearest point of that property line.

Exception: Corners. If two property lines (or two segments of the same property line) have equidistant point to the luminaire, then the luminaire may be oriented so that the intersection of the two lines (the corner) is directly behind the luminaire. The luminaire shall still use the distance to the nearest points(s) on the property lines to determine the required backlight rating.

5.106.8.2 Facing-Glare.
For luminaires covered by 5.106.8.1, if a property line also exists within or extends into the front hemisphere within 2MH of the luminaire then the luminaire shall comply with the more stringent glare rating specified in Table 5.106.8 based on the lighting zone and distance to the nearest point on the nearest property line within the front hemisphere.

Note: [N]
1.See also *California Building Code*, Chapter 12, Section 1205.6 for college campus lighting requirements for parking facilities and walkways.
2.Refer to Chapter 8 (Compliance Forms, Worksheets and Reference Material) for IES TM-15-11 Table A-1, *California Energy Code* Tables 130.2-A and 130.2-B.
3. Refer to the *California Building Code* for requirements for additions and alterations.

CIVIL

5.106.10 GRADING AND PAVING. Construction plans shall indicate how site grading or a drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include, but are not limited to, the following:

1. Swales.
2. Water collection and disposal systems.
3. French drains.
4. Water retention gardens.
5. Other water measures which keep surface water away from buildings and aid in groundwater recharge.
   Exception: Additions and alterations not altering the drainage path.

LND

5.106.12 SHADE TREES [DSA-SS]. Shade Trees shall be planted to comply with Sections 5.106.12.1, 5.106.12.2, and 5.106.12.3. Percentages shown shall be measured at noon on the summer solstice. Landscape irrigation necessary to establish and maintain tree health shall comply with Section 5.304.6.

5.106.12.1 Surface parking areas. Shade tree plantings, minimum #10 container size or equal, shall be installed to provide shade over 50 percent of the parking area within 15 years.

Exceptions: Surface parking area covered by solar photovoltaic shade structures with roofing materials that comply with Table AS.106.11.2.2 in Appendix AS shall be permitted in whole or in part in lieu of shade tree planting.

5.106.12.2 Landscape areas. Shade tress plantings, minimum #10 container size or equal shall be installed to provide shade of 20% of the landscape area within 15 years.

Exceptions: Playfields for organized sport activity are not included in the total area calculation.

5.106.12.3. Hardscape areas. Shade tree plantings, minimum #10 container size or equal shall be installed to provide shade over 20 percent of the hardscape area within 15 years.

Exceptions:
1. Walks, hardscape areas covered by solar photovoltaic shade structures or shade structures with roofing materials that comply with Table AS.106.11.2.2 in Appendix AS shall be permitted in whole or in part in lieu of shade tree planting.
2. Designated and marked play areas of organized sport activity are not included in the total area calculation.

DIVISION 5.2 ENERGY EFFICIENCY

SECTION 5.201 GENERAL

5.201.1 Scope [BSC-CG]. ***California Energy Code [DSA-SS].*** For the purposes of mandatory energy efficiency standards in this code, the California Energy Commission will continue to adopt mandatory building standards.

DIVISION 5.3 WATER EFFICIENCY AND CONSERVATION

SECTION 5.301 GENERAL

5.301.1 Scope. The provisions of this chapter shall establish the means of conserving water use indoors, outdoors and in wastewater conveyance.

SECTION 5.302 DEFINITIONS

5.302.1 Definitions. The following terms are defined in Chapter 2 *(and are included here for reference)*

EVAPOTRANSPIRATION ADJUSTMENT FACTOR (ETAF) [DSA-SS]. An adjustment factor when applied to reference evapotranspiration that adjusts for plant factors and irrigation efficiency, which ae two major influences on the amount of water that needs to be applied to the landscape.

FOOTPRINT AREA [DSA-SS]. The total area of the furthest exterior wall of the structure projected to natural grade, not including exterior areas such as stairs, covered walkways, patios and decks.

METERING FAUCET. A self-closing faucet that dispenses a specific volume of water for each actuation cycle. The volume or cycle duration can be fixed or adjustable.

GRAYWATER. Pursuant to Health and Safety Code Section 17922.12, "graywater" means untreated wastewater that has not been contaminated by any toilet discharge, has not been affected by infectious, contaminated, or unhealthy bodily wastes, and does not present a threat from contamination by unhealthful processing, manufacturing, or operating wastes. "Graywater" includes, but is not limited to wastewater from bathtubs, showers, bathroom washbasins, clothes washing machines and laundry tubs, but does not include waste water from kitchen sinks or dishwashers.

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). The California ordinance regulating landscape design, installation and maintenance practices that will ensure commercial, multifamily and other developer installed landscapes greater than 2500 square feet meet an irrigation water budget developed based on landscaped area and climatological parameters.

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). [HCD] The California model ordinance (California Code of Regulations, Title 23, Division 2, Chapter 2.7), regulating landscape design, installation and maintenance practices. Local agencies are required to adopt the updated MWELO, or adopt a local ordinance at least as effective as the MWELO.

POTABLE WATER. Water that is drinkable and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards. See definition in the California Plumbing Code, Part 5.

POTABLE WATER. [HCD] Water that is satisfactory for drinking, culinary, and domestic purposes, and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards and the requirements of the Health Authority Having Jurisdiction.

RECYCLED WATER. Water which, as a result of treatment of waste, is suitable for a direct beneficial use or a controlled use that would not otherwise occur [Water Code Section 13050 (n)]. Simply put, recycled water is water treated to remove waste matter attaining a quality that is suitable to use the water again.

SUBMETER. [HCD 1] A secondary device beyond a meter that measures water consumption of an individual rental unit within a multiunit residential structure or mixed-use residential and commercial structure. (See Civic Code Section 1954.202 (g) and Water code Section 517 for additional details.)

WATER BUDGET. Is the estimated total landscape irrigation water use which shall not exceed the maximum applied water allowance calculated in accordance with the Department of Water Resources Model Efficient Landscape Ordinance (MWELO).

SECTION 5.303 INDOOR WATER USE

5.303.1 METERS. Separate submeters or metering devices shall be installed for the uses described in Sections 503.1.1 and 503.1.2.

5.303.1.1 Buildings in excess of 50,000 square feet. Separate submeters shall be installed as follows:

1. For each individual leased, rented or other tenant space within the building projected to consume more than 100 gal/day (380 L/day), including, but not limited to, spaces used for laundry or cleaners, restaurant or food service, medical or dental office, laboratory, or beauty salon or barber shop.
2. Where separate submeters for individual building tenants are unfeasible, for water supplied to the following subsystems:
   a. Makeup water for cooling towers where flow through is greater than 500 gpm (30 L/s).
   b. Makeup water for evaporative coolers greater than 6 gpm (0.04 L/s).
   c. Steam and hot water boilers with energy input more than 500,000 Btu/h (147 kW).

5.303.1.2 Excess consumption. A separate submeter or metering device shall be provided for any tenant within a new building or within an addition that is projected to consume more than 1,000 gal/day.

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5.303.3 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:

5.303.3.1 Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Tank-Type toilets.

Note: The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush.

5.303.3.2 Urinals.
5.303.3.2.1 Wall-mounted Urinals. The effective flush volume of wall-mounted urinals shall not exceed 0.125 gallons per flush.

5.303.3.2.2 Floor-mounted Urinals. The effective flush volume of floor-mounted or other urinals shall not exceed 0.5 gallons per flush.

5.303.3.3 Showerheads. [BSC-CG]
5.303.3.3.1 Single showerhead. Showerheads shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Showerheads.

5.303.3.3.2 Multiple showerheads serving one shower. When a shower is served by more than one showerhead, the combined flow rate of all the showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to allow only one shower outlet to be in operation at a time.
Note: A hand-held shower shall be considered a showerhead.

5.303.3.3 Showerheads. [BSC-CG]
5.303.3.3.1 Single showerhead. Showerheads shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Showerheads.

5.303.3.3.2 Multiple showerheads serving one shower. When a shower is served by more than one showerhead, the combined flow rate of all the showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to allow only one shower outlet to be in operation at a time.
Note: A hand-held shower shall be considered a showerhead.

5.303.3.4 Faucets and fountains.
5.303.3.4.1 Nonresidential Lavatory faucets. Lavatory faucets shall have a maximum flow rate of not more than 0.5 gallons per minute at 60 psi.

5.303.3.4.2 Kitchen faucets. Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons per minute at 60 psi.

5.303.3.4.3 Wash fountains. Wash fountains shall have a maximum flow rate of not more than1.8 gallons per minute/20 [rim space (inches) at 60 psi].

5.303.3.4.4 Metering faucets. Metering faucets shall not deliver more than 0.20 gallons per cycle.

5.303.3.4.5 Metering faucets for wash fountains. Metering faucets for wash fountains shall have a maximum flow rate of not more than 0.20 gallons per minute/20 [rim space (inches) at 60 psi].

Note: Where complying faucets are unavailable, aerators or other means may be used to achieve reduction.

5.303.3.4.6 Pre-rinse spray value
When installed, shall meet the requirements in the *California Code of Regulations*, Title 20 (Appliance Efficiency Regulations), Section 1605.1 (h)(4) Table H-2, Section 1605.3 (h)(4)(A), and Section 1607 (d)(7), and shall be equipped with an integral automatic shutoff.

FOR REFERENCE ONLY: The following table and code section have been reprinted from the *California Code of Regulations*, Title 20 (Appliance Efficiency Regulations), Section 1605.1 (h)(4) and Section 1605.3 (h)(4)(A).

TABLE H-2	
STANDARDS FOR COMMERCIAL PRE-RINSE SPRAY VALUES MANUFACTURED ON OR AFTER JANUARY 28, 2019	
PRODUCT CLASS [spray force in ounce force (ozf)]	**MAXIMUM FLOW RATE (gpm)**
Product Class 1 (≤ 5.0 ozf)	1.00
Product Class 2 (> 5.0 ozf and ≤ 8.0 ozf)	1.20
Product Class 3 (> 8.0 ozf)	1.28

5.303.4 COMMERCIAL KITCHEN EQUIPMENT.

5.303.4.1 Food Waste Disposers. Disposers shall either modulate the use of water to no more than 1 gpm when the disposer is not in use (not actively grinding food waste/no-load) or shall automatically shut off after no more than 10 minutes of inactivity. Disposers shall use no more than 8 gpm of water.
Note: This code section does not affect local jurisdiction authority to prohibit or require disposer installation.

5.303.5 AREAS OF ADDITION OR ALTERATION. For those occupancies within the authority of the California Building Standards Commission as specified in Section 103, the provisions of Section 5.303.3 and 5.303.4 shall apply to new fixtures in additions or areas of alteration to the building.

5.303.6 STANDARDS FOR PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures and fittings shall be installed in accordance with the *California Plumbing Code*, and shall meet the applicable standards referenced in Table 1701.1 of the *California Plumbing Code* and in Chapter 6 of this code.

SECTION 5.304 OUTDOOR WATER USE

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5.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. Nonresidential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent.

Notes:
1. The Model Water Efficient Landscape Ordinance (MWELO) is located in the California Code of Regulations, Title 23, Chapter 2.7, Division 2.
2. MWELO and supporting documents, including a water budget calculator, are available at: https://www.water.ca.gov/.

5.304.6 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. For public schools and community colleges, landscape projects as described in Sections 5.304.6.1 and 5.304.6.2 shall comply with the California Department of Water Resources Model Water Efficient Landscape Ordinance (MWELO) commencing with Section 490 of Chapter 2.7, Division 2, Title 23, *California Code of Regulations*, except that the evapotranspiration adjustment factor (ETAF) shall be 0.65 with an additional water allowance for special landscape areas (SLA) of 0.35.

Exception: Any project with an aggregate landscape area of 2,500 square feet or less may comply with the prescriptive measures contained in Appendix D of the MWELO.

5.304.6.1 Newly constructed landscapes. New construction projects with an aggregate landscape area equal to or greater than 500 square feet.

5.304.6.2 Rehabilitated landscapes. Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 1,200 square feet.

DIVISION 5.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY

SECTION 5.401 GENERAL

5.401.1 SCOPE. The provisions of this chapter specify the requirements of achieving material conservation, resource efficiency, and greenhouse gas (GHG) emission reduction through protection of buildings from exterior moisture, construction waste diversion, employment of techniques to reduce pollution through recycling of materials, the installation of products with lower GHG emissions and building commissioning or testing and adjusting.

SECTION 5.402 DEFINITIONS

5.402.1 DEFINITIONS. The following terms are defined in Chapter 2 *(and are included here for reference)*

ADJUST. To regulate fluid flow rate and air patterns at the terminal equipment, such as to reduce fan speed or adjust a damper.

BALANCE. To proportion flows within the distribution system, including sub-mains, branches and terminals, according to design quantities.

BUILDING COMMISSIONING. A systematic quality assurance process that spans the entire design and construction process, including verifying and documenting that building systems and components are planned, designed, installed, tested, operated and maintained to meet the owner's project requirements.

BUY CLEAN CALIFORNIA ACT (BCCA). The Buy Clean California Act (BCCA) (Public Contract Code Sections 3500-3505) targets carbon emissions associated with the production of structural steel (hot-rolled sections, hollow structural sections, and plate), concrete reinforcing steel, flat glass, and mineral wool board insulation. The maximum acceptable global warming potential (GWP) limits are established by the Department of General Services (DGS), in consultation with the California Air Resources Board (CARB).

CRADLE-TO-GRAVE. Activities associated with a product or building's life cycle from the extraction stage through disposal stage, and covering modules A1 through C4 in accordance with ISO Standards 14025 and 21930.

ORGANIC WASTE. Food waste, green waste, landscape and pruning wste, nonhazardous wood waste, and food soiled paper waste that is mixed in with food waste.

REFERENCE STUDY PERIOD. The period of use for the building, in years, that will be assumed for life cycle assessment.

TEST. A procedure to determine quantitative performance of a system or equipment

TYPE III ENVIRONMENTAL PRODUCT DECLARATION (EPD). A third-party verified report that summarizes how a product impacts the environment. Type III EPDs can be either product-specific, factory-specific, or industry-wide EPDs. See "Cradle-to-Gate."

FACTORY-SPECIFIC EPD. A product-specific Type III EPD in which the environmental impacts can be attributed to a single manufacturer and manufacturing facility.

INDUSTRY-WIDE EPD (IW-EPD). A Type III EPD in which the environmental impacts are an average of the typical manufacturing impacts for a range of products within the same product category for a group of manufacturers.

PRODUCT-SPECIFIC EPD. A Type III EPD in which the environmental impacts can be attributed to a product design and manufacturer across multiple facilities.

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SECTION 5.407 WATER RESISTANCE AND MOISTURE MANAGEMENT

5.407.1 WEATHER PROTECTION. Provide a weather-resistant exterior wall and foundation envelope as required by California Building Code Section 1402.2 (Weather Protection), manufacturer's installation instructions or local ordinance, whichever is more stringent.

5.407.2 MOISTURE CONTROL. Employ moisture control measures by the following methods.

5.407.2.1 Sprinklers. Design and maintain landscape irrigation systems to prevent spray on structures.

5.407.2.2 Entries and openings. Design exterior entries and/or openings subject to foot traffic or wind-driven rain to prevent water intrusion into buildings as follows:

5.407.2.2.1 Exterior door protection. Primary exterior entries shall be covered to prevent water intrusion by using nonabsorbent floor and wall finishes within at least 2 feet around and perpendicular to such openings plus at least one of the following:

1. An installed awning at least 4 feet in depth.
2. The door is protected by a roof overhang at least 4 feet in depth.
3. The door is recessed at least 4 feet.
4. Other methods which provide equivalent protection.

5.407.2.2.2 Flashing. Install flashings integrated with a drainage plane.

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SECTION 5.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING

5.408.1 CONSTRUCTION WASTE MANAGEMENT. Recycle and/or salvage for reuse a minimum of 65% of the non-hazardous construction and demolition waste in accordance with Section 5.408.1.1, 5.408.1.2 or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent.

5.408.1.1 Construction waste management plan. Where a local jurisdiction does not have a construction and demolition waste management ordinance, submit a construction waste management plan that:

1. Identifies the construction and demolition waste materials to be diverted from disposal by efficient usage, recycling, reuse on the project or salvage for future use or sale.
2. Determines if construction and demolition waste materials will be sorted on-site (source-separated) or bulk mixed (single stream).
3. Identifies diversion facilities where construction and demolition waste material collected will be taken.
4. Specifies that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.

5.408.1.2 Waste Management Company. Utilize a waste management company that can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with this section.

Note: The owner or contractor shall make the determination if the construction and demolition waste material will be diverted by a waste management company.

Exceptions to Sections 5.408.1.1 and 5.408.1.2:

1. Excavated soil and land-clearing debris.
2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist.
3. Demolition waste meeting local ordinance or calculated in consideration of local recycling facilities and markets.

5.408.1.3 Waste stream reduction alternative. The combined weight of new construction disposal that does not exceed two pounds per square foot of building area may be deemed to meet the 65% minimum requirement as approved by the enforcing agency.

5.408.1.4 Documentation. Documentation shall be provided to the enforcing agency which demonstrates compliance with Sections 5.408.1.1, through 5.408.1.3. The waste management plan shall be updated as necessary and shall be accessible during construction for examination by the enforcing agency.

Notes:

1. Sample forms found in "A Guide to the California Green Building Standards Code (Nonresidential)" located www.dgs.ca.gov/BSC/Resources/Page-Content/Building-Standards-Commission-Resources-List-Folder/CALGreen may be used to assist in documenting compliance with the waste management plan.
2. Mixed construction and demolition debris processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle).

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5.408.2 UNIVERSAL WASTE. [A] Additions and alterations to a building or tenant space that meet the scoping provisions in Section 301.3 for nonresidential additions and alterations, shall require verification that Universal Waste items such as fluorescent lamps and ballast and mercury containing thermostats as well as other California prohibited Universal Waste materials are disposed of properly and are diverted from landfills. A list of prohibited Universal Waste materials shall be included in the construction documents.

Note: Refer to the Universal Waste Rule link at: http://www.dtsc.ca.gov/universalwaste/

5.408.3 EXCAVATED SOIL AND LAND CLEARING DEBRIS. 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed.

Exception: Reuse, either on or off-site, of vegetation or soil contaminated by disease or pest infestation.

Notes:

1. If contamination by disease or pest infestation is suspected, contact the County Agricultural Commissioner and follow its direction for recycling or disposal of the material.
2. For a map of know pest and/or disease quarantine zones, consult with the California Department of Food and Agriculture. (www.cdfa.ca.gov)

SECTION 5.409 LIFE CYCLE ASSESSMENT

5.409.1 SCOPE. [BSC-CG] Effective July 1, 2024, projects consisting of newly constructed building(s) with a combined floor area of 100,000 square feet or greater shall comply with either Section 5.409.2 or Section 5.409.3. Alteration(s) to existing building(s) where the combined altered floor area is 100,000 square feet or greater shall comply with either Section 5.105.2, 5.409.2, or 5.409.3. Addition(s) to existing building(s) where the total floor area combined with the existing building(s) is 100,000 square feet or greater shall comply with either Section 5.105.2, Section 5.409.2, or Section 5.409.3. Effective January 1, 2026, the combined floor area shall be 50,000 square feet or greater.

[DSA-SS] Projects consisting of newly constructed building(s) with a combined floor area of 50,000 square feet or greater shall comply with either Section 5.409.2 or Section 5.409.3. Alteration(s) to existing building(s) where the combined altered floor area is 50,000 square feet or greater shall comply with either Section 5.105.2, 5.409.2, or 5.409.3. Addition(s) to existing building(s) where the total floor area combined with the existing building(s) is 50,000 square feet or greater shall comply with either Section 5.105.2, Section 5.409.2, or Section 5.409.3.

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No.:	Description:	Date:
	60% CONSTRUCTION DOCUMENT	07 MAR 2025
	90% CONSTRUCTION DOCUMENT	08 AUG 2025
	ISSUED FOR PERMIT REVISION 1	08 AUG 2025
	ISSUED FOR BID	13 OCT 2025

Seal & Signature:
LICENSED ARCHITECT
JEFFREY MILLER
C-37366
01/31/2027
RENEWAL DATE
STATE OF CALIFORNIA

Sheet Name:
CAL GREEN CODE DOCUMENTATION

Project No.: 24.05
Drawn By: Author
Checked By: Checker
Scale:

Sheet No.: A051

13/13/2025 7:39:37 AM

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 3 (July 2024 Supplement)

Y = YES
N/A = NOT APPLICABLE
RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

Y	N/A	RESPON. PARTY	
☐	☒		**5.409.2 Whole building life cycle assessment.** Projects shall conduct a cradle-to-grave whole building life cycle assessment performed in accordance with ISO 14040 and ISO 14044, excluding operating energy, and demonstrating a minimum 10-percent reduction in global warming potential (GWP) as compared to a reference baseline building of similar size, function, complexity, type of construction, material specification, and location that meets the requirements of the California Energy Code currently in effect. Software used to conduct the whole building life cycle assessment, including reference baseline building, shall have a data set compliant with ISO 14044, and ISO 21930 or EN 15804, and the software shall conform to ISO 21931 and/or EN 15978. The software tools and data sets shall be the same for evaluation of both the baseline building and the proposed building.

Notes:
1. Software for calculating whole building life cycle assessment is available for free at Athena Sustainable Materials Institute (https://calculatelca.com/software/impact-estimator/) and OneClick LCA-Planetary (www.oneclicklca.com/planetary/). Paid versions include, but are not limited to, Sphera GaBi Solutions (gabi.sphera.com), SimaPro (simapro.com), One-Click LCA (www.oneclicklca.com) and Tally for Revit (apps.autodesk.com).

2. ASTM E2921-22 "Standard Practice for Minimum Criteria for Comparing Whole Building Life Cycle Assessments for Use with Building Codes, Standards, and Rating Systems" may be consulted for the assessment.

3. In addition to the required documentation specified in Section 5.409.2.3, Worksheet WS-9 may be required by the enforcing entity to demonstrate compliance with the requirements.

5.409.2.1 Building components. Building enclosure components included in the assessment shall be limited to glazing assemblies, insulation, and exterior finishes. Primary and secondary structural members included in the assessment shall be limited to footings and foundations, and structural columns, beams, walls, roofs, and floors.

5.409.2.2 Reference study period. The reference study period of the proposed building shall be equal to the reference baseline building and shall be 60 years.

5.409.2.3 Verification of compliance. A summary of the GWP analysis produced by the software and Worksheet WS-4 signed by the design professional of record shall be provided in the construction documents as documentation of compliance. A copy of the whole building life cycle assessment which includes the GWP analysis produced by the software, in addition to maintenance and training information, shall be included in the operation and maintenance manual and shall be provided to the owner at the close of construction. The enforcing agency may require inspection and inspection reports in accordance with Sections 702.2 and 703.1 during and at completion of construction to demonstrate substantial conformance. Inspection shall be performed by the design professional of record or third party acceptable to the enforcing agency.

☒	☐	ELEC	**5.409.3 Product GWP compliance—prescriptive path.** Each product that is permanently installed and listed in Table 5.409.3 shall have a Type III environmental product declaration (EPD), either product-specific or factory-specific.

TABLE 5.409.3
PRODUCT GWP LIMITS

BUY CLEAN CALIFORNIA MATERIALS PRODUCT CATEGORY[1]	MAXIMUM ACCEPTABLE GWP VALUE (unfabricated) ($GWP_{allowed}$)	UNIT OF MEASUREMENT
Hot-rolled structural steel sections	1.77	MT CO_2e/MT
Hollow structural sections	3.00	MT CO_2e/MT
Steel plate	2.61	MT CO_2e/MT
Concrete reinforcing steel	1.56	MT CO_2e/MT
Flat glass	2.50	MT CO_2e/MT [4]
Light-density mineral wool board insulation	5.83	kg CO_2e/MT
Heavy-density mineral wool board insulation	14.28	kg CO_2e/MT
Concrete, Ready-Mixed[2, 3]		
CONCRETE PRODUCT CATEGORY	**MAXIMUM GWP ALLOWED VALUE ($GWP_{allowed}$)**	**UNIT OF MEASUREMENT**
up to 2499 psi	450	kg CO_2e/m^3
2500~3499 psi	489	kg CO_2e/m^3
3500~4499 psi	566	kg CO_2e/m^3
4500~5499 psi	661	kg CO_2e/m^3
5500~6499 psi	701	kg CO_2e/m^3
6500 psi and greater	799	kg CO_2e/m^3
Concrete, Lightweight Ready-Mixed[2]		
CONCRETE PRODUCT CATEGORY	**MAXIMUM GWP ALLOWED VALUE ($GWP_{allowed}$)**	**UNIT OF MEASUREMENT**
up to 2499 psi	875	kg CO_2e/m^3
2500~3499 psi	956	kg CO_2e/m^3
3500~4499 psi	1039	kg CO_2e/m^3

1. The GWP values of the products listed in Table 5.409.3 are based on 175 percent of Buy Clean California Act (BCCA) GWP values, except for concrete products which are not included in the BCCA.
2. For concrete, 175 percent of the National Ready Mixed Concrete Association (NRMCA) 2022 version 3 Pacific Southwest regional benchmark values are used for the GWP allowed, except for High Early Strength.
3. Concrete High Early Strength ready-mixed shall be calculated at 130 percent of the ready-mixed concrete GWP allowed values for each product category.
4. The GWP unit for flat glass has been adjusted to correct an error in the express terms. With the revised unit (MT CO2e/MT), reported GWP values will align with industry data as published in the CLF North American Material Baselines (2023).

5.409.3.1 Products shall not exceed the maximum GWP value specified in Table 5.409.3.

Exception: Concrete may be considered one product category to meet compliance with this section. A weighted average of the maximum GWP for all concrete mixes installed in the project shall be less than the weighted average maximum GWP allowed per Table 5.409.3 using Exception Equation 5.409.3.1. Calculations shall be performed with consistent units of measurement for the material quantity and the GWP value.

For the purposes of this exception, industry-wide EPDs are acceptable.

Exception EQUATION 5.409.3.1

$GWP_P < GWP_{allowed}$
where
$GWP_P = \Sigma\ (GWP_n)(v_n)$
and
$GWP_{allowed} = \Sigma\ (GWP_{allowed})(v_n)$
and
$_n$ = each concrete mix installed in the project
GWP_n = the GWP for concrete mix $_n$ per concrete mix EPD, in kg CO2e/m3
$GWP_{allowed}$ = the GWP potential allowed for concrete mix $_n$ per Table 5.409.3
v_n = the volume of concrete mix $_n$ installed in the project, in m3

Y	N/A	RESPON. PARTY	
			5.409.3.2 Verification of compliance. Calculations to demonstrate compliance, Type III EPDs for products required to comply, if included in the project, and Worksheet WS-5 signed by the design professional of record shall be provided on the construction documents. Updated EPDs for products used in construction shall be provided to the owner at the close of construction and to the enforcement entity upon request. The enforcing agency may require inspection and inspection reports in accordance with Sections 702.2 and 703.1 during and at completion of construction to demonstrate substantial conformance. Inspection shall be performed by the design professional of record or third party acceptable to the enforcing agency.
☐	☐		

SECTION 5.410 BUILDING MAINTENANCE AND OPERATIONS

5.410.1 RECYCLING BY OCCUPANTS. Provide readily accessible areas that serve the entire building and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling ordinance, if more restrictive.

Exception: Rural jurisdictions that meet and apply for the exemption in Public Resources Code 42649.82 (a)(2)(A) et seq. shall also be exempt from the organic waste portion of this section.

5.410.1.1 Additions. All additions conducted within a 12-month period under single or multiple permits, resulting in an increase of 30% or more in floor area, shall provide recycling areas on site.

Exception: Additions within a tenant space resulting in less than a 30% increase in the tenant space floor area.

5.410.1.2 Sample ordinance. Space allocation for recycling areas shall comply with Chapter 18, Part 3, Division 30 of the *Public Resources Code*. Chapter 18 is known as the California Solid Waste Reuse and Recycling Access Act of 1991 (*Act*).

Note: A sample ordinance for use by local agencies may be found in Appendix A of the document at the CalRecycle's web site.

☐	☒		**5.410.2 COMMISSIONING. [N] New buildings 10,000 square feet and over.** For new buildings 10,000 square feet and over, building commissioning shall be included in the design and construction processes of the building project to verify that the building systems and components meet the owner's or owner representative's project requirements. Commissioning shall be performed in accordance with this section by trained personnel with experience on projects of comparable size and complexity. For I-occupancies that are not regulated by OSHPD or for I-occupancies and L-occupancies that are not regulated y the California Energy Code Section 100.0 Scope, all requirements in Sections 5.410.2 through 5.410.2.6 shall apply.

Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting systems and controls, as well as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements

Commissioning requirements shall include:

1. Owner's or Owner representative's project requirements.
2. Basis of design.
3. Commissioning measures shown in the construction documents.
4. Commissioning plan.
5. Functional performance testing.
6. Documentation and training.
7. Commissioning report.

Exceptions:

1. Unconditioned warehouses of any size.
2. Areas less than 10,000 square feet used for offices or other conditioned accessory spaces within unconditioned warehouses.
3. Tenant improvements less than 10,000 square feet as described in Section 303.1.1.
4. Open parking garages of any size, or open parking garage areas, of any size, within a structure.

Note: For the purposes of this section, unconditioned shall mean a building, area or room which does not provide heating and/or air conditioning.

Informational Notes:

1. . .Functional performance testing for heating, ventilation, air conditioning systems and lighting controls must be performed in compliance with the *California Energy Code*.

5.410.2.1 Owner's or Owner Representative's Project Requirements (OPR). [N] The expectations and requirements of the building appropriate to its phase shall be documented before the design phase of the project begins. This documentation shall include the following:

1. Environmental and sustainability goals.
2. Building sustainable goals.
3. Indoor environmental quality requirements.
4. Project program, including facility functions and hours of operation, and need for after hours operation.
5. Equipment and systems expectations.
6. Building occupant and operation and maintenance (O&M) personnel expectations.

5.410.2.2 Basis of Design (BOD). [N] A written explanation of how the design of the building systems meets the OPR shall be completed at the design phase of the building project. The Basis of Design document shall cover the following systems:

1. Renewable energy systems.
2. Landscape irrigation systems.
3. Water reuse system.

5.410.2.3 Commissioning plan. [N] Prior to permit issuance a commissioning plan shall be completed to document how the project will be commissioned. The commissioning plan shall include the following:

1. General project information.
2. Commissioning goals.
3. Systems to be commissioned. Plans to test systems and components shall include:
   a. An explanation of the original design intent.
   b. Equipment and systems to be tested, including the extent of tests.
   c. Functions to be tested.
   d. Conditions under which the test shall be performed.
   e. Measurable criteria for acceptable performance.
4. Commissioning team information.
5. Commissioning process activities, schedules and responsibilities. Plans for the completion of commissioning shall be included.

5.410.2.4 Functional performance testing. [N] Functional performance tests shall demonstrate the correct installation and operation of each component, system and system-to-system interface in accordance with the approved plans and specifications. 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.

5.410.2.5 Documentation and training. [N] A Systems Manual and Systems Operations Training are required, including Occupational Safety and Health Act (OSHA) requirements in *California Code of Regulations* (CCR), Title 8, Section 5142, and other related regulations.

5.410.2.5.1 Systems manual. [N] Documentation of the operational aspects of the building shall be completed within the systems manual and delivered to the building owner or representative. The systems manual shall include the following:

1. Site information, including facility description, history and current requirements.
2. Site contact information.
3. Basic operations and maintenance, including general site operating procedures, basic troubleshooting, recommended maintenance requirements, site events log.
4. Major systems.
5. Site equipment inventory and maintenance notes.
6. A copy of verifications required by the enforcing agency or this code.
7. Other resources and documentation, if applicable.

5.410.2.5.2 Systems operations training. [N] A program for training of the appropriate maintenance staff for each equipment type and/or system shall be developed and documented in the commissioning report and shall include the following:

1. System/equipment overview (what it is, what it does and with what other systems and/or equipment it interfaces).
2. Review and demonstration of servicing/preventive maintenance.
3. Review of the information in the Systems Manual.
4. Review of the record drawings on the system/equipment.

5.410.2.6 Commissioning report. [N] A report of commissioning process activities undertaken through the design and construction phases of the building project shall be completed and provided to the owner or representative.

☐	☒		**5.410.4 TESTING AND ADJUSTING. New buildings less than 10,000 square feet.** Testing and adjusting of systems shall be required for new buildings less than 10,000 square feet or new systems to serve an addition or alteration subject to Section 303.1.

Y	N/A	RESPON. PARTY	
			5.410.4.2 (Reserved)

Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting system and controls, as well as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements and Sections 120.5, 120.6, 130.4, and 140.9(b)3 for additional testing requirements of specific systems.

5.410.4.2 Systems. Develop a written plan of procedures for testing and adjusting systems. Systems to be included for testing and adjusting shall include at a minimum, as applicable to the project:

1. Renewable energy systems.
2. Landscape irrigation systems.
3. Water reuse systems.

5.410.4.3 Procedures. Perform testing and adjusting procedures in accordance with manufacturer's specifications and applicable standards on each system.

5.410.4.3.1 HVAC balancing. In addition to testing and adjusting, before a new space-conditioning system serving a building or space is operated for normal use, the system shall be balanced in accordance with the procedures defined by the Testing Adjusting and Balancing Bureau National Standards; the National Environmental Balancing Bureau Procedural Standards; Associated Air Balance Council National Standards or as approved by the enforcing agency.

5.410.4.4 Reporting. After completion of testing, adjusting and balancing, provide a final report of testing signed by the individual responsible for performing these services.

5.410.4.5 Operation and maintenance (O & M) manual. Provide the building owner or representative with detailed operating and maintenance instructions and copies of guaranties/warranties for each system. O & M instructions shall be consistent with OSHA requirements in CCR, Title 8, Section 5142, and other related regulations.

5.410.4.5.1 Inspections and reports. Include a copy of all inspection verifications and reports required by the enforcing agency.

DIVISION 5.5 ENVIRONMENTAL QUALITY

SECTION 5.501 GENERAL

5.501.1 SCOPE. The provisions of this chapter shall outline means of reducing the quantity of air contaminants that are odorous, irritating, and/or harmful to the comfort and well-being of a building's installers, occupants and neighbors.

SECTION 5.502 DEFINITIONS

5.502.1 DEFINITIONS. The following terms are defined in Chapter 2 *(and are included here for reference)*

ARTERIAL HIGHWAY. A general term denoting a highway primarily for through traffic usually on a continuous route.

A-WEIGHTED SOUND LEVEL (dBA). The sound pressure level in decibels as measured on a sound level meter using the internationally standardized A-weighting filter or as computed from sound spectral data to which A-weighting adjustments have been made.

1 BTU/HOUR. British thermal units per hour, also referred to as Btu. The amount of heat required to raise one pound of water one degree Fahrenheit per hour, a common measure of heat transfer rate. A ton of refrigeration is 12,000 Btu, the amount of heat required to melt a ton (2,000 pounds) of ice at 32° Fahrenheit.

COMMUNITY NOISE EQUIVALENT LEVEL (CNEL). A metric similar to the day-night average sound level (Ldn), except that a 5 decibel adjustment is added to the equivalent continuous sound exposure level for evening hours (7pm to 10pm) in addition to the 10 dB nighttime adjustment used in the Ldn.

COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and medium density fiberboard. "Composite wood products" does not include hardboard, structural plywood, structural panels, structural composite lumber, oriented strand board, glued laminated timber, timber, prefabricated wood I–joists or finger–jointed lumber, all as specified in California Code of Regulations (CCR), Title 17, Section 93120.1(a).

Note: See CCR, Title 17, Section 93120.1.

DAY-NIGHT AVERAGE SOUND LEVEL (Ldn). The A-weighted equivalent continuous sound exposure level for a 24-hour period with a 10 dB adjustment added to sound levels occurring during nighttime hours (10p.m. to 7 a.m.).

DECIBEL (db). A measure on a logarithmic scale of the magnitude of a particular quantity (such as sound pressure, sound power, sound intensity) with respect to a reference quantity.

ELECTRIC VEHICLE (EV). An automotive-type vehicle for on-road use, such as passenger automobiles, buses, trucks, vans, neighborhood electric vehicles, electric motorcycles, and the like, primarily powered by an electric motor that draws current from a rechargeable storage battery, fuel cell, photovoltaic array, or other source of electric current. Plug-in hybrid electric vehicles (PHEV) are considered electric vehicles. For purposes of the *California Electrical Code*, off-road, self-propelled electric vehicles, such as industrial trucks, hoists, lifts, transports, golf carts, airline ground support equipment, tractors, boats, and the like, are not included.

ELECTRIC VEHICLE CHARGING STATION(S) (EVCS). One or more spaces intended for charging electric vehicles.

ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE). The conductors, including the ungrounded, grounded, and equipment grounding conductors and the electric vehicle connectors, attachment plugs, and all other fittings, devices, power outlets, or apparatus installed specifically for the purpose of transferring energy between the premises wiring and the electric vehicle.

ENERGY EQUIVALENT (NOISE) LEVEL (Leq). The level of a steady noise which would have the same energy as the fluctuating noise level integrated over the time of period of interest.

EXPRESSWAY. An arterial highway for through traffic which may have partial control of access, but which may or may not be divided or have grade separations at intersections.

FREEWAY. A divided arterial highway with full control of access and with grade separations at intersections.

GLOBAL WARMING POTENTIAL (GWP). The radiative forcing impact of one mass-based unit of a given greenhouse gas relative to an equivalent unit of carbon dioxide over a given period of time. Carbon dioxide is the reference compound with a GWP of one.

GLOBAL WARMING POTENTIAL VALUE (GWP VALUE). A 100-year GWP value published by the Intergovernmental Panel on Climate Change (IPCC) in either its Second Assessment Report (SAR) (IPCC, 1995); or its Fourth Assessment A-3 Report (AR4) (IPCC, 2007). The SAR GWP values are found in column "SAR (100-yr)" of Table 2.14., the AR4 GWP values are found in column "100 yr" of Table 2.14.

HIGH-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that is: (a) a chlorofluorocarbon, a hdrochlorofluorocarbon, a hydrofluorocarbon, a perfluorocarbon, or any compound or blend of compounds, with a GWP value equal to or greater than 150, or (B) any ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, sec.82.3 (as amended March 10, 2009)**.**

LONG RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, with a radius 1.5 times the pipe diameter.

LOW-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that: (A) has a GWP value less than 150, and (B) is not an ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, sec.82.3 (as amended March 10, 2009).

MERV. Filter minimum efficiency reporting value, based on ASHRAE 52.2–1999.

MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum change in weight of ozone formed by adding a compound to the "Base REactive Organic Gas (ROG) Mixture" per weight of compound added, expressed to hundreths of a gram (g O^3/g ROC).

PRODUCT-WEIGHTED MIR (PWMIR). The sum of all weighted-MIR for all ingredients in a product subject to this article. The PWMIR is the total product reactivity expressed to hundredths of a gram of ozone formed per gram of product (excluding container and packaging).

PSIG. Pounds per square inch, guage.

REACTIVE ORGANIC COMPOUND (ROC). Any compound that has the potential, once emitted, to contribute to ozone formation in the troposphere.

SCHRADER ACCESS VALVES. Access fittings with a valve core installed.

SHORT RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, with a radius 1.0 times the pipe diameter.

SUPERMARKET. For the purposes of Section 5.508.2, a supermarket is any retail food facility with 8,000 square feet or more conditioned area, and that utilizes either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units.

VOC. A volatile organic compound broadly defined as a chemical compound based on carbon chains or rings with vapor pressures greater than 0.1 millimeters of mercury at room temperature. These compounds typically contain hydrogen and may contain oxygen, nitrogen and other elements. See CCR Title 17, Section 94508(a).

Note: Where specific regulations are cited from different agencies such as SCAQMD, ARB, etc., the VOC definition included in that specific regulation is the one that prevails for the specific measure in question.

Y	N/A	RESPON. PARTY	
☐	☒		
☒	☐	CONTR	
☒	☐	CONTR	
☒	☐	CONTR	

SECTION 5.503 FIREPLACES

5.503.1 FIREPLACES. Install only a direct-vent sealed-combustion gas or sealed wood-burning fireplace, or a sealed woodstove or pellet stove, and refer to residential requirements in the California Energy Code, Title 24, Part 6, Subchapter 7, Section 150. Woodstoves, pellet stoves and fireplaces shall comply with applicable local ordinances.

5.503.1.1 Woodstoves. Woodstoves and pellet stoves shall comply with U.S. EPA New Source Performance Standards (NSPS) emission limits as applicable, and shall have a permanent label indicating they are certified to meet the emission limits.

SECTION 5.504 POLLUTANT CONTROL

5.504.1 TEMPORARY VENTILATION. The permanent HVAC system shall only be used during construction if necessary to condition the building or areas of addition or alteration within the required temperature range for material and equipment installation. If the HVAC system is used during construction, use return air filters with a Minimum Efficiency Reporting Value (MERV) of 8, based on ASHRAE 52.2-1999, or an average efficiency of 30% based on ASHRAE 52.1-1992. Replace all filters immediately prior to occupancy, or, if the building is occupied during alteration, at the conclusion of construction.

5.504.3 Covering of duct openings and protection of mechanical equipment during construction. At the time of rough installation and during storage on the construction site until final startup of the heating, cooling and ventilation equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheetmetal or other methods acceptable to the enforcing agency to reduce the amount of dust, water and debris which may enter the system.

5.504.4 FINISH MATERIAL POLLUTANT CONTROL. Finish materials shall comply with Sections 5.504.4.1 through 5.504.4.6.

5.504.4.1 Adhesives, sealants and caulks. Adhesives, sealants, and caulks used on the project shall meet the requirements of the following standards:

1. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable, or SCAQMD Rule 1168 VOC limits, as shown in Tables 5.504.4.1 and 5.504.4.2. Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and trichloroethylene), except for aerosol products as specified in subsection 2, below.

2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than one pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of *California Code of Regulations*, Title 17, commencing with Section 94507.

TABLE 5.504.4.1 - ADHESIVE VOC LIMIT[1,2]

Less Water and Less Exempt Compounds in Grams per Liter

ARCHITECTURAL APPLICATIONS	CURRENT VOC LIMIT
INDOOR CARPET ADHESIVES	50
CARPET PAD ADHESIVES	50
OUTDOOR CARPET ADHESIVES	150
WOOD FLOORING ADHESIVES	100
RUBBER FLOOR ADHESIVES	60
SUBFLOOR ADHESIVES	50
CERAMIC TILE ADHESIVES	65
VCT & ASPHALT TILE ADHESIVES	50
DRYWALL & PANEL ADHESIVES	50
COVE BASE ADHESIVES	50
MULTIPURPOSE CONSTRUCTION ADHESIVES	70
STRUCTURAL GLAZING ADHESIVES	100
SINGLE-PLY ROOF MEMBRANE ADHESIVES	250
OTHER ADHESIVES NOT SPECIFICALLY LISTED	50
SPECIALTY APPLICATIONS	
PVC WELDING	510
CPVC WELDING	490
ABS WELDING	325
PLASTIC CEMENT WELDING	250
ADHESIVE PRIMER FOR PLASTIC	550
CONTACT ADHESIVE	80
SPECIAL PURPOSE CONTACT ADHESIVE	250
STRUCTURAL WOOD MEMBER ADHESIVE	140
TOP & TRIM ADHESIVE	250
SUBSTRATE SPECIFIC APPLICATIONS	
METAL TO METAL	30
PLASTIC FOAMS	50
POROUS MATERIAL (EXCEPT WOOD)	50
WOOD	30
FIBERGLASS	80

1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.

2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168, www.arb.ca.gov/DRDB/SC/CURHTML/R1168.PDF

TABLE 5.504.4.2 - SEALANT VOC LIMIT

Less Water and Less Exempt Compounds in Grams per Liter

SEALANTS	CURRENT VOC LIMIT
ARCHITECTURAL	250
MARINE DECK	760
NONMEMBRANE ROOF	300
ROADWAY	250
SINGLE-PLY ROOF MEMBRANE	450
OTHER	420
SEALANT PRIMERS	
ARCHITECTURAL	
NONPOROUS	250
POROUS	775
MODIFIED BITUMINOUS	500
MARINE DECK	760
OTHER	750

NOTE: FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THESE TABLES, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168.

DISCLAIMER: *THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.*

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Sheet Name:
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Drawn By: Author
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Sheet No.: A052

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2022 CALIFORNIA GREEN BUILDING STANDARDS CODE
NONRESIDENTIAL MANDATORY MEASURES, SHEET 4 (July 2024 Supplement)

Y = YES
N/A = NOT APPLICABLE
RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

5.504.4.3 Paints and coatings. Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Coatings Suggested Control Measure, as shown in Table 5.504.4.3, unless more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 5.504.4.3 shall be determined by classifying the coating as a Flat, Nonflat or Nonflat-High Gloss coating, based on its gloss, as defined in Subsections 4.21, 4.36 and 4.37 of the 2007 California Air Resources Board Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat-High Gloss VOC limit in Table 5.504.4.3 shall apply.

5.504.4.3.1 Aerosol Paints and coatings. Aerosol paints and coatings shall meet the PWMIR Limits for ROC in Section 94522(a)(3) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(c)(2) and (d)(2) of *California Code of Regulations*, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation 8 Rule 49.

TABLE 5.504.4.3 - VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS[2,3]

GRAMS OF VOC PER LITER OF COATING, LESS WATER & LESS EXEMPT COMPOUNDS

COATING CATEGORY	CURRENT VOC LIMIT
FLAT COATINGS	50
NONFLAT COATINGS	100
NONFLAT HIGH GLOSS COATINGS	150
SPECIALTY COATINGS	
ALUMINUM ROOF COATINGS	400
BASEMENT SPECIALTY COATINGS	400
BITUMINOUS ROOF COATINGS	50
BITUMINOUS ROOF PRIMERS	350
BOND BREAKERS	350
CONCRETE CURING COMPOUNDS	350
CONCRETE/MASONRY SEALERS	100
DRIVEWAY SEALERS	50
DRY FOG COATINGS	150
FAUX FINISHING COATINGS	350
FIRE RESISTIVE COATINGS	350
FLOOR COATINGS	100
FORM-RELEASE COMPOUNDS	250
GRAPHIC ARTS COATINGS (SIGN PAINTS)	500
HIGH-TEMPERATURE COATINGS	420
INDUSTRIAL MAINTENANCE COATINGS	250
LOW SOLIDS COATINGS[1]	120
MAGNESITE CEMENT COATINGS	450
MASTIC TEXTURE COATINGS	100
METALLIC PIGMENTED COATINGS	500
MULTICOLOR COATINGS	250
PRETREATMENT WASH PRIMERS	420
PRIMERS, SEALERS, & UNDERCOATERS	100
REACTIVE PENETRATING SEALERS	350
RECYCLED COATINGS	250
ROOF COATINGS	50
RUST PREVENTATIVE COATINGS	250
SHELLACS:	
CLEAR	730
OPAQUE	550
SPECIALTY PRIMERS, SEALERS & UNDERCOATERS	100
STAINS	250
STONE CONSOLIDANTS	450
SWIMMING POOL COATINGS	340
TRAFFIC MARKING COATINGS	100
TUB & TILE REFINISH COATINGS	420
WATERPROOFING MEMBRANES	250
WOOD COATINGS	275
WOOD PRESERVATIVES	350
ZINC-RICH PRIMERS	340

1. GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER & EXEMPT COMPOUNDS
2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE.
3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.

5.504.4.3.2 Verification. Verification of compliance with this section shall be provided at the request of the enforcing agency. Documentation may include, but is not limited to, the following:
1. Manufacturer's product specification
2. Field verification of on-site product containers

5.504.4.4 Carpet Systems.
All carpet installed in the building interior shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers." Version 1.2, January 2017 (Emission testing method for California Specifications 01350).

See California Department of Public Health's website for certification programs and testing labs.
https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

5.504.4.4.1 Carpet cushion. All carpet cushion installed in the building interior shall meet the requirements of the California Department of Public Health,"Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers,"Version 1.2, January 2017 (Emission testing method for California Specifications 01350).

See California Department of Public Health's website for certification programs and testing labs.
https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

5.504.4.4.2 Carpet adhesive. All carpet adhesive shall meet the requirements of Table 5.504.4.1.

5.504.4.5 Composite wood products. Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the buildings shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure (ATCM) for Composite Wood (17 CCR 93120 et seq.). Those materials not exempted under the ATCM must meet the specified emission limits, as shown in Table 5.504.4.5.

5.504.4.5.3 Documentation. Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following:
1. Product certifications and specifications.
2. Chain of custody certifications.
3. Product labeled and invoiced as meeting the Composite Wood Products regulation (see CCR, Title 17, Section 93120, et seq.).
4. Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered Wood Association, the Australian AS/NZS 2269 or European 636 3S standards.
5. Other methods acceptable to the enforcing agency.

TABLE 5.504.4.5 - FORMALDEHYDE LIMITS[1]

MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION

PRODUCT	CURRENT LIMIT
HARDWOOD PLYWOOD VENEER CORE	0.05
HARDWOOD PLYWOOD COMPOSITE CORE	0.05
PARTICLE BOARD	0.09
MEDIUM DENSITY FIBERBOARD	0.11
THIN MEDIUM DENSITY FIBERBOARD[2]	0.13

1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E 1333. FOR ADDITIONAL INFORMATION, SEE CALIFORNIA CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH 93120.12.
2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16 INCHES (8 MM).

5.504.4.6 Resilient flooring systems. Where resilient flooring is installed, at least 80 percent of floor area receiving resilient flooring shall meet the requirements of the California Department of Public Health,"Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specifications 01350)

See California Department of Public Health's website for certification programs and testing labs.
https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

5.504.4.6.1 Verification of compliance. Documentation shall be provided verifying that resilient flooring materials meet the pollutant emission limits.

5.504.4.7 Thermal insulation
Comply with the requirements of the California Department of Public Health, "Standard Method of the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, "Version 1.2, January 1.2, January 2017 (Emission testing method for California Specification 01350).
See California Department of Public Health's website for certification programs and testing labs.
https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

5.504.4.7.1 Verification of compliance.
Documentation shall be provided verifying that thermal insulation materials meet the pollutant emission limits.

5.504.4.8 Acoustical ceiling and wall panels.
Comply with the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, " Version 1.2, January 2017 (Emission testing method for California Specification 01350).
See California Department of Public Health's website for certification programs and testing labs.

5.504.4.8.1 Verification of compliance. Documentation shall be provided verifying that acoustical finish materials meet the pollutant emission limits.

5.504.5.3 Filters. In mechanically ventilated buildings, provide regularly occupied areas of the building with air filtration media for outside and return air that provides at least a Minimum Efficiency Reporting Value (MERV) of 13. MERV 13 filters shall be installed prior to occupancy, and recommendations for maintenance with filters of the same value shall be included in the operation and maintenance manual.

Exceptions: Existing mechanical equipment.

5.504.5.3.1 Labeling. Installed filters shall be clearly labeled by the manufacturer indicating the MERV rating.

5.504.7 ENVIRONMENTAL TOBACCO SMOKE (ETS) CONTROL. Where outdoor areas are provided for smoking, prohibit smoking within 25 feet of building entries, outdoor air intakes and operable windows and within the building as already prohibited by other laws or regulations; or as enforced by ordinances, regulations or policies of any city, county, city and county, California Community College, campus of the California State University, or campus of the University of California, whichever are more stringent. When ordinances, regulations or policies are not in place, post signage to inform building occupants of the prohibitions.

SECTION 5.505 INDOOR MOISTURE CONTROL

5.505.1 INDOOR MOISTURE CONTROL. Buildings shall meet or exceed the provisions of California Building Code, CCR, Title 24, Part 2, Sections 1202 (Ventilation) and Chapter 14 (Exterior Walls). For additional measures, see Section 5.407.2 of this code.

SECTION 5.506 INDOOR AIR QUALITY

5.506.1 OUTSIDE AIR DELIVERY. For mechanically or naturally ventilated spaces in buildings, meet the minimum requirements of Section 120.1 (Requirements For Ventilation) of the *California Energy Code*, or the applicable local code, whichever is more stringent, and Division 1, Chapter 4 of CCR, Title 8.

5.506.2 CARBON DIOXIDE (CO_2) MONITORING. For buildings or additions equipped with demand control ventilation, CO_2 sensors and ventilation controls shall be specified and installed in accordance with the requirements of the California Energy Code, Section 120(c)(4).

5.506.3 Carbon dioxide (CO2) monitoring in classrooms.
(DSA-SS) Each public K-12 school classroom, as listed in Table 120.1-A of the *California Energy Code*, shall be equipped with a carbon dioxide monitor or sensor that meets the following requirements:
1. The monitor or sensor shall be permanently affixed in a tamper-proof manner in each classroom between 3 and 6 feet (914 mm and 1829 mm) above the floor and at least 5 feet (1524 mm) away from door and operable windows.
2. When the monitor or sensor is not integral to an Energy Management Control System (EMCS), the monitor or sensor shall display the carbon dioxide readings on the device. When the sensor is integral to an EMCS, the carbon dioxide readings shall be available to and regularly monitored by facility personnel.
3. A monitor shall provide notification though a visual indicator on the monitor when the carbon dioxide levels in the classroom have exceeded 1,100ppm. A sensor integral to an EMCS shall provide notification to facility personnel through a visual and/or audible indicator when the carbon dioxide levels in the classroom have exceeded 1,100ppm.
4. The monitor or sensor shall measure carbon dioxide levels at minimum 15- minute intervals and shall maintain a record of previous carbon dioxide measurements of not less than 30 days duration.
5. The monitor or sensor used to measure carbon dioxide levels shall have the capacity to measure carbon dioxide levels with a range of 400ppm to 2000ppm or greater.
6. The monitor or sensor shall be certified by the manufacturer to be accurate within 75ppm at 1,000ppm carbon dioxide concentration and shall be certified by the manufacturer to require calibration no more frequently than once every 5 years.

SECTION 5.507 ENVIRONMENTAL COMFORT

5.507.4 ACOUSTICAL CONTROL. Employ building assemblies and components with Sound Transmission Class (STC) values determined in accordance with ASTM E 90 and ASTM E 413, or Outdoor-Indoor Sound Transmission Class (OITC) determined in accordance with ASTM E 1332, using either the prescriptive or performance method in Section 5.507.4.1 or 5.507.4.2.

Exception: Buildings with few or no occupants or where occupants are not likely to be affected by exterior noise, as determined by the enforcement authority, such as factories, stadiums, storage, enclosed parking structures and utility buildings.

Exception: [DSA-SS] For public schools and community colleges, the requirements of this section and all subsections apply only to new construction.

5.507.4.1 Exterior noise transmission, prescriptive method. Wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall meet a composite STC rating of at least 50 or a composite OITC rating of no less than 40, with exterior windows of a minimum STC of 40 or OITC of 30 in the following locations:

1. Within the 65 CNEL noise contour of an airport.

   Exceptions:

   1. L_{dn} or CNEL for military airports shall be determined by the facility Air Installation Compatible Land Use Zone (AICUZ) plan.
   2. L_{dn} or CNEL for other airports and heliports for which a land use plan has not been developed shall be determined by the local general plan noise element.

2. Within the 65 CNEL or L_{dn} noise contour of a freeway or expressway, railroad, industrial source or fixed-guideway source as determined by the Noise Element of the General Plan.

5.507.4.1.1. Noise exposure where noise contours are not readily available. Buildings exposed to a noise level of 65 dB L_{eq} - 1-hr during any hour of operation shall have building, addition or alteration exterior wall and roof-ceiling assemblies exposed to the noise source meeting a composite STC rating of at least 45 (or OITC 35), with exterior windows of a minimum STC of 40 (or OITC 30).

5.507.4.2 Performance Method. For buildings located as defined in Section 5.507.4.1 or 5.507.4.1.1, wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall be constructed to provide an interior noise environment attributable to exterior sources that does not exceed an hourly equivalent noise level (Leq-1Hr) of 50 dBA in occupied areas during any hour of operation.

5.507.4.2.1 Site Features. Exterior features such as sound walls or earth berms may be utilized as appropriate to the building, addition or alteration project to mitigate sound migration to the interior.

5.507.4.2.2 Documentation of Compliance. An acoustical analysis documenting complying interior sound levels shall be prepared by personnel approved by the architect or engineer of record.

5.507.4.3 Interior sound transmission. Wall and floor-ceiling assemblies separating tenant spaces and tenant spaces and public places shall have an STC of at least 40.

Note: Examples of assemblies and their various STC ratings may be found at the California Office of Noise Control: www.toolbase.org/PDF/CaseStudies/stc_icc_ratings.pdf.

SECTION 5.508 OUTDOOR AIR QUALITY

5.508.1 Ozone depletion and greenhouse gas reductions. Installations of HVAC, refrigeration and fire suppression equipment shall comply with Sections 5.508.1.1 and 5.508.1.2.

5.508.1.1 Chlorofluorocarbons (CFCs). Install HVAC, refrigeration and fire suppression equipment that do not contain CFCs.

5.508.1.2 Halons. Install HVAC, refrigeration and fire suppression equipment that do not contain Halons.

5.508.2 Supermarket refrigerant leak reduction. New commercial refrigeration systems shall comply with the provisions of this section when installed in retail food stores 8,000 square feet or more conditioned area, and that utilize either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units. The leak reduction measures apply to refrigeration systems containing high-global-warming potential (high-GWP) refrigerants with a GWP of 150 or greater. New refrigeration systems include both new facilities and the replacement of existing refrigeration systems in existing facilities.

Exception: Refrigeration systems containing low-global warming potential (low-GWP) refrigerant with a GWP value less than 150 are not subject to this section. Low-GWP refrigerants are nonozone-depleting refrigerants that include ammonia, carbon dioxide (CO_2), and potentially other refrigerants.

5.508.2.1 Refrigerant piping. Piping compliant with the California Mechanical Code shall be installed to be accessible for leak protection and repairs. Piping runs using threaded pipe, copper tubing with an outside diameter (OD) less than 1/4 inch, flared tubing connections and short radius elbows shall not be used in refrigerant systems except as noted below.

5.508.2.1.1 Threaded pipe. Threaded connections are permitted at the compressor rack.

5.508.2.1.2 Copper pipe. Copper tubing with an OD less than 1/4 inch may be used in systems with a refrigerant charge of 5 pounds or less.

5.508.2.1.2.1 Anchorage. One-fouth-inch OD tubing shall be securely clamped to a rigid base to keep vibration levels below 8 mils.

5.508.2.1.3 Flared tubing connections. Double-flared tubing connections may be used for pressure controls, valve pilot lines and oil.

Exception: Single-flared tubing connections may be used with a multiring seal coated with industrial sealant suitable for use with refrigerants and tightened in accordance with manufacturer's recommendations.

5.508.2.1.4 Elbows. Short radius elbows are only permitted where space limitations prohibit use of long radius elbows.

5.508.2.2 Valves. Valves Valves and fittings shall comply with the *California Mechanical Code* and as follows.

5.508.2.2.1 Pressure relief valves. For vessels containing high-GWP refrigerant, a rupture disc shall be installed between the outlet of the vessel and the inlet of the pressure relief valve.

5.508.2.2.1.1 Pressure detection. A pressure gauge, pressure transducer or other device shall be installed in the space between the rupture disc and the relief valve inlet to indicate a disc rupture or discharge of the relief valve.

5.508.2.2.2 Access valves. Only Schrader access valves with a brass or steel body are permitted for use.

5.508.2.2.2.1 Valve caps. For systems with a refrigerant charge of 5 pounds or more, valve caps shall be brass or steel and not plastic.

5.508.2.2.2.2 Seal caps. If designed for it, the cap shall have a neoprene O-ring in place.

5.508.2.2.2.2.1 Chain tethers. Chain tethers to fit ovr the stem are required for valves designed to have seal caps.

Exception: Valves with seal caps that are not removed from the valve during stem operation.

5.508.2.3 Refrigerated service cases. Refrigerated service cases holding food products containing vinegar and salt shall have evaporator coils of corrosion-resistant material, such as stainless steel; or be coated to prevent corrosion from these substances.

5.508.2.3.1 Coil coating. Consideration shall be given to the heat transfer efficiency of coil coating to maximize energy efficiency.

5.508.2.4 Refrigerant receivers. Refrigerant receivers with capacities greater than 200 pounds shall be fitted with a device tha indicates the level of refrigerant in the receiver.

5.508.2.5 Pressure testing. The system shall be pressure tested during installation prior to evacuation and charging.

5.508.2.5.1 Minimum pressure. The system shall be charged with regulated dry nitrogen and appropriate tracer gas to bring system pressure up to 300 psig minimum.

5.508.2.5.2 Leaks. Check the system for leaks, repair any leaks, and retest for pressure using the same gauge.

5.508.2.5.3 Allowable pressure change. The system shall stand, unaltered, for 24 hours with no more than a +/- one pound pressure change from 300 psig, measured with the same gauge.

5.508.2.6 Evacuation. The system shall be evacuated after pressure testing and prior to charging.

5.508.2.6.1 First vacuum. Pull a system vacuum down to at least 1000 microns (+/- 50 microns), and hold for 30 minutes.

5.508.2.6.2 Second vacuum. Pull a second system vacuum to a minimum of 500 microns and hold for 30 minutes.

5.508.2.6.3 Third vacuum. Pull a third vacuum down to a minimum of 300 microns, and hold for 24 hours with a maximum drift of 100 microns over a 24-hour period.

CHAPTER 7
INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS

702 QUALIFICATIONS

702.1 INSTALLER TRAINING. HVAC system installers shall be trained and certified in the proper installation of HVAC systems including ducts and equipment by a nationally or regionally recognized training or certification program. Uncertified persons may perform HVAC installations when under the direct supervision and responsibility of a person trained and certified to install HVAC systems or contractor licensed to install HVAC systems. Examples of acceptable HVAC training and certification programs include but are not limited to the following:

1. State certified apprenticeship programs.
2. Public utility training programs.
3. Training programs sponsored by trade, labor or statewide energy consulting or verification organizations.
4. Programs sponsored by manufacturing organizations.
5. Other programs acceptable to the enforcing agency.

702.2 SPECIAL INSPECTION [HCD]. When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition to other certifications or qualifications acceptable to the enforcing agency, the following certifications or education may be considered by the enforcing agency when evaluating the qualifications of a special inspector:

1. Certification by a national or regional green building program or standard publisher.
2. Certification by a statewide energy consulting or verification organization, such as HERS raters, building performance contractors, and home energy auditors.
3. Successful completion of a third party apprentice training program in the appropriate trade.
4. Other programs acceptable to the enforcing agency.

Notes:

1. Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.
2. HERS raters are special inspectors certified by the California Commission (CEC) to rate homes in California according to the Home Energy Rating System (HERS).

[BSC-CG] When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition, the special inspector shall have a certification from a recognized state, national or international association, as determined by the local agency. The area of certification shall be closely related to the primary job function, as determined by the local agency.

Note: Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.

703 VERIFICATIONS

703.1 DOCUMENTATION. Documentation used to show compliance with this code shall include but is not limited to, construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which demonstrate substantial conformance. When specific documentation or special inspection is necessary to verify compliance, that method of compliance will be specified in the appropriate section or identified applicable checklist.

DISCLAIMER: *THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.*

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No.	Description:	Date:
	60% CONSTRUCTION DOCUMENT	07 MAR 2025
	90% CONSTRUCTION DOCUMENT	08 AUG 2025
	ISSUED FOR PERMIT REVISION 1	08 AUG 2025
	ISSUED FOR BID	13 OCT 2025

Seal & Signature:

LICENSED ARCHITECT
JEFFREY MILLER
C-37366
01/31/2027
RENEWAL
STATE OF CALIFORNIA

Sheet Name:
CAL GREEN CODE DOCUMENTATION

Project No.: 24.05
Drawn By: Author
Checked By: Checker
Scale:

Sheet No.: A053

10/13/2025 7:39:43 AM

Docusign Envelope ID: 907F95BD-91D8-4575-9B8D-70AEAD36DB40

Certificate of Implementation
City's Implementation of State Law:
Construction and Demolition (C&D) Debris Recycling Program
State of California Green Building Code (CalGreen)

The California Green Building Code: Effective January 1, 2017, the 2016 CalGreen requires that all Commercial additions or alterations, all Residential additions or alterations that add floor space/increase size, all Demolition of any structure requiring a permit and all New Construction (pursuant to the California Green Building Code) are required to divert 65% of the construction materials generated during construction of the project. The City has therefore implemented a mandatory Construction and Demolition (C&D) Debris Recycling Program to divert at least 65% of these highly recoverable materials from the landfill in accordance with CalGreen. This Program shall as defined above.

500 North Fairview, Goleta, CA 93117 — Property Address
25-B-0118 — Project Number (e.g. CDP, APR, OC, Permit)
City of Goleta — Owner/Developer Name
805-690-5126 — Phone#

E-mail address: mfore@cityofgoleta.org; cleair@cityofgoleta.org

Proposed Solid Waste Hauler: Marborg
*** A change in hauler is permitted as long as applicant notifies City in writing.**

AFFIDAVIT OF PROJECT TYPE: (check one or more)
☐ **The project involves new construction.** ☒ **The project involves commercial addition/alteration.**
☐ **The project involves demolition.** ☐ **The project involves residential addition/alteration.**

For all projects: A Summary Report shall be submitted to the City detailing how a 65% or greater diversion **was met** to comply with CalGreen. Sign both the Affidavit and Certification below.

Signature (Docusigned by: Matthew Fore) — Matthew Fore (Printed Name) — 4/7/2025 (Date)
☒ Property Owner (Authorized Agent (circle which))
☐ Licensed Contractor, License No.: _____

CERTIFICATION OF IMPLEMENTATION: C&D DEBRIS RECYCLING PROGRAM

This is to certify a C&D Recycling Program for the above-referenced address will be implemented to divert a minimum of 65% and a Summary Report (detailing how the diversion was met) shall be submitted to the City upon project completion, prior to obtaining a Certificate of Occupancy.

I declare that I have read and understand the requirements of the City's C&D Debris Recycling Program and that the foregoing is true and correct.

Signature (Docusigned by: Matthew Fore) — Matthew Fore (Printed Name) — 4/7/2025 (Date)
☒ Property Owner (Authorized Agent (circle which))
☐ Licensed Contractor, License No. _____

CERTIFICATE OF IMPLEMENTATION

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Post-Construction
Waste Reduction & Recycling Summary Report (WRRS)

Pursuant to the California Green Building Code this form must be completed for the following types of projects:
- All Commercial additions or alterations;
- All Residential additions or alterations that add floor space/increase size.
- All Demolition of any structure requiring a permit.
- All New Construction

NOTE: Completed WRRS Reports shall be submitted to the City of Goleta Public Counter 5 days prior to Final Inspection and issuance of Certificate of Occupancy or Temporary Certificate of Occupancy. If you have questions, please call: 805-961-7575.

Building Permit#: _____ Date: _____

Project Address (Include floor, suite, etc.): _____

Contact Name: _____ Title: _____

Company Name: _____

Contact Mailing Address: _____

Phone: _____ Fax: _____

Email: _____

1. Type of Project: ☐New Construction ☐Addition/Alteration ☐Demolition
2. Type of Building: ☐Commercial ☐Single Family Residence ☐Apartment/Condominium
3. Tenant Improvement: ☐Yes ☐No
4. Size of Project: _____ sq. ft. Construction Valuation $ _____
5. Project Completion Date: _____
6. Briefly state how solid waste material was handled on your job site to ensure salvage/reuse or recycling.

_____
_____
_____

Please do not write below this line

Plan approve by: _____ Title: _____

Signature: _____ Date: _____

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Post-Construction Waste Reduction & Recycling Summary Report

Diversion Requirement: Reduce quantity of materials disposed at landfills by 65% or more.

Column A: List estimated quantities of waste for each material type (in tons). To convert material quantities to tons, use the Materials Conversion Worksheet provided in your packet.
Columns B, C, D: List estimated quantities reused, recycled, or disposed.
Column E: State the name of all vendors or facilities to be used to reuse, recycle or dispose of material listed. See example below for cases where more than one facility will be used for a particular material type.
Column Totals: Add up all quantities listed in Column A. Do the same for Columns B, C and D.

Building Permit#: _____ Project Address: _____

Waste Reduction & Recycling Summary REPORT (WRRS Report)

Material Handling Methods - Indicate quantities (in tons only) for each material listed.

Material Type	A Total Tons Generated (A=B+C+D)	B Quantity Salvaged or Reused	C Recycling	D Estimated Disposal	E Anticipated Material Destination(s) (R): Recycled; (D): Disposal
Example: Cardboard	2 tons		1.5	.5	(R) MarBorg (D) Tajiguas Landfill
Asphalt & Concrete					
Brick/Masonry/Tile					
Building Materials (doors, windows, fixtures, etc.)					
Carpet					
Carpet padding/Foam					
Cardboard					
Ceiling tile (acoustic)					
Dirt					
Drywall (used)					
Drywall (new, unpainted sheets or scrap)					
Landscape Debris (brush, trees, stumps, etc.)					
Scrap metal					
Unpainted Wood and Pallets					
Garbage/Trash					
Other					
Recycled mixed debris					
Column Totals					

7. To determine if the required 65% project waste reduction will be met, complete the following with the column totals:

(B _____ + C _____) / A _____ = _____ x 100 = _____%

8. Is the percentage listed in #7 greater than or equal to 65%? ☐YES ☐NO - If "NO" please explain why:

_____
_____

9. Print Name: _____ Signature: _____ Date: ___/___/___

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For Reference Only
MATERIALS CONVERSION WORKSHEET - SEPARATED MATERIALS[1]
(Total Tons Generated)

This worksheet lists materials typically generated from a construction or demolition project and provides formulas for converting common units (i.e. cubic yards, square feet and board feet) to tons. It can be used for preparing your WMP Report, which require that quantities be provided in tons. Step 1 - For your WMP, enter estimated quantity for each applicable material in Column I, based on units of cubic yards (cy), cubic foot (cu ft);square feet (sq ft), or board foot (bd ft). For your Summary Report, use the actual quantities, based on weight tags, gate receipts, or other documents. Step 2 - Multiply by Tons/Unit figure listed in Worksheet Column II. Enter the result for each material in Column III. Step 3 - Enter quantities for each separated material from Column C on the Worksheet into the corresponding section of Column A of your WMP Report.

Material Category		Column I Volume	Units	x	Column II Tons/unit	=	Column III Tons
Asphalt/Concrete	Asphalt (broken)		cy	x	.7	=	
	Concrete (broken)		cy	x	.9	=	
	Concrete (solid slab)		cy	x	1.2975	=	
Brick/Masonry/Tile	Brick (broken)		cy	x	.7	=	
	Brick (whole, palletized)		cy	x	1.512	=	
	Masonry Block (broken)		cy	x	.6	=	
	Tile		sq ft	x	.00175		
Building Materials (doors, windows, cabinets, etc.)			cy	x	.15	=	
Cardboard (flat)			cy	x	.05	=	
Carpet	(by square foot)		sq ft	x	.0005	=	
	(by cubic yard)		cy	x	.3	=	
Carpet Padding/Foam			sq ft	x	.000125	=	
Ceiling Tiles	(whole - palletized)		sq ft	x	.0003	=	
	(loose)		cy	x	.0875	=	
[2]Dirt			cu ft	x	.3852	=	
Drywall (new or used)	1/2" (by square foot)		sq ft	x	.0008	=	
	5/8" (by square foot)		sq ft	x	.00105	=	
Drywall (demo/used)	(by cubic yard)		cy	x	.25	=	
Garbage/Trash			cy	x	.175	=	
Landscape Debris (brush trees, etc.)			cy	x	.15	=	
Scrap Metal			cy	x	.453	=	
Unpainted Wood & Pallets	(by board food)		bd ft	x	.001375	=	
	(by cubic yard)		cy	x	.15	=	
[3]Other				x		=	

cy = cubic yards cu ft= cubic foot sq ft = square foot bd ft = board foot — **Total Tons** =

[1] For additional conversion factors go to https://www2.calrecycle.ca.gov/Search/?q=conversion+factors

Sources:
[1] City of Oakland PWD
[2] CalRecycle (factor averaged between 5 different types of dirt and converted to tons for consistency)
[3] For additional conversion factors go to https://www2.calrecycle.ca.gov/Search/?q=conversion+factors

WASTE REDUCTION & RECYCLING SUMMARY REPORT

Docusign Envelope ID: A4396FB1-6534-49BA-96F7-EB564064BC05

4699 HOLLISTER AVENUE
GOLETA, CALIFORNIA 93110-1999
TELEPHONE: 805.964.6761
WWW.GOLETAWATER.COM

PRELIMINARY WATER SERVICE DETERMINATION

May 21, 2025

City of Goleta,
Attn: Matthew Fore, General Services Director
130 Cremona Drive
Goleta, CA 93117

Re: Preliminary Water Service Determination
SERVICE ADDRESS: 500 North Fairview Avenue
APN: 069-090-056

Dear Matthew Fore:

Thank you for contacting the Goleta Water District (District) regarding your Proposed Project. The District has reviewed the description for your Proposed Project located at APN 069-090-056.

The District has an obligation and responsibility to serve the Proposed Project subject to the provisions of the SAFE Water Supplies Ordinance approved by District voters, the District Code, and California Law.

This letter may be adequate for approval of a land use permit but is not intended to convey District approval for issuance of a Building Permit. A Conditional Can and Will Serve Letter is required. Please see below for application requirements.

This Preliminary Water Service Determination confirms the District currently has sufficient water supply available to serve the Proposed Project. However, the SAFE Ordinance limits the ability of the District to guarantee future water availability. This Determination may be required to initiate an application for development with the City of Goleta Planning and Environmental Review Department.

Our review is based on the following project description:

> **Proposed development includes interior and exterior remodel, including restrooms, of an approximately 6,768 SF portion of an existing 15,475 SF building. No new or expanded development is proposed. Changes to landscape irrigation are proposed. The property owner agent has confirmed that fire sprinklers and public or private hydrants are requested or required as part of the proposed development. The property is a 2.06-acre legal lot in the City of Goleta. The property currently has an active service connection with the Goleta Water District.**

Please review this above description carefully. Any deviations from the above project description, exhibits, or conditions must be reviewed and approved by the District for conformity with this notice. Any

Docusign Envelope ID: A4396FB1-6534-49BA-96F7-EB564064BC05

changes to or deviations from the project description must be submitted to the District for further review and may result in a requirement for a new Application for New Water Services. Changes to the project that are not submitted to and approved by the District may constitute a violation of District rules and regulations per District Code Section 6.20.110. An application for New Water Service with the District is required for any future New Development on the property.

After you initiate an application with the City, a Goleta Water District Application for Water Service including the application fee, project plans, and other supporting materials must be submitted to the District. Once the application has been deemed complete, District staff will review the application and issue a Preliminary Conditions Letter outlining the conditions for final approval of water service for the Proposed Project. Once the conditions of the Preliminary Conditions Letter, including the completion of design for any required Water System Improvements are met, the District may issue a Conditional Can and Will Serve Letter identifying any required conditions including deposits for construction and New Water Supply Charges due following issuance of the City of Goleta approved building permit. Prior to water service activation, the District will issue a Final Can and Will Serve Letter.

This Preliminary Water Service Determination is not a contract. It is a statement confirming water availability and compliance with the current District rules and regulations related to the Proposed Project. The Proposed Project will be subject to any applicable future changes and modifications in District rules and regulations.

Please return the original copy of this form filled out by City of Goleta Planning and Environmental Review Department with the information requested on the next page. If you have any questions regarding this matter, contact me at (805) 879-4652 or jheaton@goletawater.com.

Sincerely,

Jema Heaton
Senior Water Resources Analyst

Docusign Envelope ID: A4396FB1-6534-49BA-96F7-EB564064BC05

TO BE FILLED OUT BY CITY OF GOLETA PLANNING AND ENVIRONMENTAL REVIEW DEPARTMENT:

Planner: Cassidy Le Air/ Brian Hiefield — Case#: 25-B-0118

Email: cleair@cityofgoleta.org

Phone: 805-690-5126 — Date: 7/14/2025

☒ The description in this notice is correct

☐ The description in this notice is not correct (please include comments below)

Planner Signature (DocuSigned by: Cassidy Le Air FF3FC656F2AF491...)

Comments: _____

This project is subject to:

Ministerial _____ Discretionary _____ Exempt X

approval by the City of Goleta.

Planner Signature (Signed by: brian hiefield 52A2F1E6AE2B420...)

Note to Planner: *Please return a copy of this complete form directly to the Goleta Water District.*

PRELIMINARY WATER SERVICE DETERMINATION LETTER

10/13/2025 7:39:44 AM

GOLETA LIBRARY

CITY OF GOLETA

500 N Fairview Ave
Goleta, CA 93117

Designer:
JM | A+D
516 N Sepulveda Blvd.
Manhattan Beach, CA 90266
(310) 684-3550
www.JMADstudio.com

Consultants:
kpff

Consultants:
UPLA STUDIO

Consultants:
INTERFACE ENGINEERING

Consultants:
JENSEN HUGHES

Issued For:

No.:	Description:	Date:
	90% CONSTRUCTION DOCUMENT	08 AUG 2025
	ISSUED FOR PERMIT REVISION 1	08 AUG 2025
	ISSUED FOR BID	13 OCT 2025

Seal & Signature:
LICENSED ARCHITECT — JEFFREY MILLER — C-37366 — 01/31/2027 RENEWAL DATE — STATE OF CALIFORNIA

Sheet Name:
CERTIFICATE OF IMPLEMENTATION AND PWSD LETTER

Project No.: 24.05
Drawn By: Author
Checked By: Checker
Scale:

Sheet No.: A054

GENERAL NOTES:

1. WORK SHOWN HEREON SHALL BE DONE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION," LATEST EDITION AND SUPPLEMENTS, THE CALIFORNIA BUILDING CODE (EXCAVATION AND GRADING), AND CITY OF **GOLETA** LOCAL ORDINANCES AS APPLICABLE.
2. EXISTING TOPOGRAPHY SHOWN HEREON WAS TAKEN FROM A SURVEY DATED AUGUST 8, 2024 BY KPFF.
3. THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY, AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS.
4. PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL JOIN CONDITIONS FOR GRADING, DRAINAGE AND UNDERGROUND FACILITIES INCLUDING LOCATION AND ELEVATION OF EXISTING UNDERGROUND FACILITIES AT CROSSINGS WITH PROPOSED UNDERGROUND FACILITIES. IF CONDITIONS DIFFER FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND SHALL NOT BEGIN CONSTRUCTION UNTIL THE CHANGED CONDITIONS HAVE BEEN EVALUATED.
5. ALL DRAWINGS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE START OF CONSTRUCTION SO THAT A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR ARCHITECT.
6. THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.
7. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.
8. THE EXISTENCE, LOCATION AND CHARACTERISTICS OF UNDERGROUND UTILITY INFORMATION SHOWN ON THESE PLANS HAVE BEEN OBTAINED FROM A REVIEW OF AVAILABLE RECORD DATA. NO REPRESENTATION IS MADE AS TO THE ACCURACY OR COMPLETENESS OF SAID UTILITY INFORMATION. THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.
9. IF AT ANY TIME DURING GRADING OPERATIONS, ANY UNFAVORABLE GEOLOGICAL CONDITIONS ARE ENCOUNTERED, GRADING IN THAT AREA WILL STOP UNTIL APPROVED CORRECTIVE MEASURES ARE OBTAINED.
10. THE PROPOSED GRADE IS THE FINAL GRADE AND NOT THE ROUGH GRADE. THE CONTRACTOR SHALL SUBTRACT THE THICKNESS OF THE PAVED SECTION AND/OR LANDSCAPE TOPSOIL SECTION TO ARRIVE AT THE ROUGH GRADE ELEVATION.
11. STRAIGHT GRADE SHALL BE MAINTAINED BETWEEN CONTOUR LINES AND SPOT ELEVATIONS UNLESS OTHERWISE SHOWN ON THE PLANS.
12. ALL DEBRIS AND FOREIGN MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT APPROVED DISPOSAL SITES. THE CONTRACTOR SHALL OBTAIN NECESSARY PERMITS FOR THE TRANSPORTATION OF MATERIAL TO AND FROM THE SITE.
13. ALL FILL SOILS OR SOILS DISTURBED OR OVEREXCAVATED DURING CONSTRUCTION SHALL BE COMPACTED PER THE REQUIREMENTS OF THE SOILS REPORT BUT NOT LESS THAN 90% MAXIMUM DENSITY AS DETERMINED BY A.S.T.M. SOIL COMPACTION TEST D-1557.
14. THE CONTRACTOR SHALL OBTAIN AN O.S.H.A. PERMIT FROM THE CALIFORNIA DIVISION OF INDUSTRIAL SAFETY PRIOR TO THE CONSTRUCTION OF TRENCHES OR EXCAVATIONS WHICH ARE FIVE FEET OR DEEPER.
15. DIMENSIONS TO PIPELINES ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
16. ALL WATER LINES SHALL BE INSTALLED WITH 36" MINIMUM COVER FROM TOP OF PIPE TO FINISHED GRADE, UNLESS OTHERWISE NOTED.
17. THRUST BLOCKS SHALL BE INSTALLED AT WATERLINE HORIZONTAL AND VERTICAL BENDS, TEES, CAPPED ENDS AND REDUCERS ACCORDING TO THE DETAILS PROVIDED ON THESE PLANS.
18. CONSTRUCTION STAKING FOR IMPROVEMENTS SHOWN ON THESE PLANS SHALL BE PERFORMED BY A LICENSED LAND SURVEYOR. CONSTRUCTION STAKING SURVEYOR SHALL BE RESPONSIBLE FOR COORDINATION OF THESE PLANS WITH SOURCE DRAWINGS PREPARED BY ARCHITECT, LANDSCAPE ARCHITECT, STRUCTURAL ENGINEER, MEP CONSULTANT AND ANY OTHER DISCIPLINE PRIOR TO START OF STAKING AND CONSTRUCTION. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE START OF CONSTRUCTION SO THAT A CLARIFICATION CAN BE ISSUED.
19. THE CONTRACTOR SHALL REPLACE ALL EXISTING IMPROVEMENTS DAMAGED DURING CONSTRUCTION TO MATCH EXISTING, INCLUDING PERMANENT TRENCH RESURFACING.
20. CONTRACTOR TO CONTACT UNDERGROUND SERVICE ALERT (800-227-2600) PRIOR TO EXCAVATION.
21. ALL DIMENSIONS ARE IN FEET OR DECIMALS THEREOF.
22. ALL CURB DIMENSIONS AND RADII ARE TO PAVEMENT FACE OF CURB.
23. CONTRACTOR TO BE AWARE OF ALL OVERHEAD LINES AT ALL TIMES, SO AS NOT TO DISTURB THEM.
24. WATER SHALL BE PROVIDED ONSITE AND USED TO CONTROL DUST DURING CONSTRUCTION OPERATIONS.
25. CONTRACTOR SHALL OBTAIN ANY NECESSARY PERMITS FROM THE CITY OF **GOLETA** FOR ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY.
26. STORM DRAINAGE SYSTEMS SHOWN ON THESE PLANS HAVE BEEN DESIGNED FOR THE FINAL SITE CONDITION AT COMPLETION OF THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ADEQUATE DRAINAGE OF THE SITE, DURING INTERIM CONDITIONS OF CONSTRUCTION.
27. CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS, INCLUDING NPDES, FROM THE APPROPRIATE JURISDICTIONAL AGENCIES FOR DISCHARGE OF GROUNDWATER THAT MAY BE NECESSARY TO ACCOMPLISH EXCAVATIONS SHOWN ON THESE PLANS.

1-800-227-2600
CALL USA/SC FOR UNDERGROUND LOCATING 48 HOURS BEFORE YOU DIG!

IMPORTANT NOTICE
SECTION 4216/4217 OF THE GOVERNMENT CODE REQUIRES A DIGALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIGALERT I.D. NUMBER CALL UNDERGROUND SERVICE ALERT TOLL FREE 1-800-227-2600 TWO WORKING DAYS BEFORE YOU DIG

LEGEND:

GENERAL
- CIVIL LIMITS OF WORK
- PROPERTY LINE

ANNOTATION
- 100.00 XX — SURFACE ELEVATION/UTILITY ELEVATION
- (100.00)XX — EXISTING SURFACE ELEVATION/UTILITY ELEVATION
- XX — CONSTRUCTION NOTE
- 2.0% — FLOW (DIRECTION AND GRADE)
- 2:1 — SLOPE (DIRECTION AND RUN:RISE)
- XX — HORIZONTAL CONTROL POINT LABEL
- CX — CURVE DATA LABEL
- FF=100.00 — PAD/FINISHED FLOOR ELEVATION

SITE
- CURB/BACK OF CURB/GUTTER
- RETAINING WALL/SITE WALL
- PROPERTY LINE/RIGHT OF WAY
- CENTER LINE
- FENCE
- TO BE DEMOLISHED
- SIGN

EROSION CONTROL
- GRAVEL BAGS
- FIBER ROLL
- DIRECTION OF FLOW
- PROTECT TREE IN PLACE
- MATERIAL DELIVERY AND STORAGE (WM1) PER CASQA RECOMMENDATIONS. SUBJECT TO CHANGE PER CONTRACTORS MEANS, METHODS, AND SEQUENCE OF WORK.
- SOLID WASTE MANAGAEMENT (WM5) PER CASQA RECOMMENDATIONS. SUBJECT TO CHANGE PER CONTRACTORS MEANS, METHODS, AND SEQUENCE OF WORK.
- CONCRETE WASTE MANAGEMENT (WM8) PER CASQA RECOMMENDATIONS. SUBJECT TO CHANGE PER CONTRACTORS MEANS, METHODS, AND SEQUENCE OF WORK.
- SANITARY/SEPTIC WASTE MANAGEMENT (WM9) PER CASQA RECOMMENDATIONS. SUBJECT TO CHANGE PER CONTRACTORS MEANS, METHODS, AND SEQUENCE OF WORK.

GRADING
- 100 — PROPOSED MAJOR CONTOUR
- 102 — PROPOSED MINOR CONTOUR
- FLOW LINE
- GB — GRADE BREAK LINE
- R — RIDGE LINE
- EARTHEN SWALE
- SAWCUT
- LIMITS OF GRADING
- GRADING BENCH
- TOP / TOE — GRADED SLOPE (HORIZONTAL:VERTICAL)

UTILITY
- SS — SANITARY SEWER
- W — WATER
- DW — DOMESTIC WATER
- FW — FIRE WATER
- SD — STORM DRAIN
- G — GAS
- E — ELECTRIC
- T — TELEPHONE
- PERFORATED PIPE
- POINT OF CONNECTION
- COORDINATION POINT
- CAP OR PLUG
- UTILITY MANHOLE
- UTILITY CLEANOUT
- STORM DRAIN INLET
- AREA DRAIN/PLANTER DRAIN
- TRENCH DRAIN
- FIRE HYDRANT
- THRUST BLOCK
- FIRE DEPARTMENT CONNECTION (FDC)
- POST INDICATOR VALVE (PIV)
- WATER VALVE
- BACKFLOW ASSEMBLY
- UTILITY METER VAULT

ABBREVIATIONS:

AC	ASPHALTIC CONCRETE	MH	MANHOLE
BCR	BEGIN CURVE RETURN	(N)	NORTH
BW	BACK OF WALK	NTS	NOT TO SCALE
BLDG	BUILDING	PA	PLANTER AREA
BM	BENCH MARK	POC	POINT OF CONNECTION
BOS	BOTTOM OF STAIRS	PIV	POST INDICATOR VALVE
BMP	BEST MANAGEMENT PRACTICES	PCC	POINT OF COMPOUND CURVE
CB	CATCH BASIN	PRC	POINT OF REVERSE CURVE
CI	CAST IRON	PRV	PRESSURE REDUCING VALVE
CL	CENTER LINE	PVC	POLYVINYL CHLORIDE
CMU	CONCRETE MASONRY UNIT	R	RADIUS
CO	CLEANOUT	RCIP	RECTANGULAR CAST IRON PIPE
CONC	PORTLAND CEMENT CONCRETE	RD	ROOF DRAIN
CF	CURB FACE	RW	RIGHT-OF-WAY
DW	DOMESTIC WATER	(S)	SOUTH
(E)	EAST	S=	SLOPE EQUALS
ECR	END CURVE RETURN	SD	STORM DRAIN
EG	EDGE OF GUTTER	SSMH	SANITARY SEWER MANHOLE
EL. OR ELEV	ELEVATION	SS	SANITARY SEWER
ELEC	ELECTRIC, ELECTRICAL	STD	STANDARD
EX. OR EXIST.	EXISTING	SDMH	STORM DRAIN MANHOLE
FDC	FIRE DEPARTMENT CONNECTION	TC	TOP OF CURB
FF	FINISHED FLOOR	TEL	TELEPHONE
FG	FINISHED GRADE (LANDSCAPE)	TG	TOP OF GRATE
FS	FINISHED SURFACE (HARDSCAPE)	TOS	TOP OF STAIRS
FH	FIRE HYDRANT	TW	TOP OF WALL
FL	FLOW LINE	TS	TRAFFIC SIGNAL
FT	FOOT OR FEET	TSB	TRAFFIC SIGNAL BOX
FU	FIXTURE UNITS	TYP	TYPICAL
FW	FIRE WATER	TV	TELEVISION
GPM	GALLONS PER MINUTE	VIF	VERIFY IN FIELD
GV	GATE VALVE	VLT	VAULT
HDPE	HIGH DENSITY POLYETHYLENE	VCP	VITRIFIED CLAY PIPE
HP	HIGH POINT	(W)	WEST
INV.	INVERT	W	WATER
LP	LOW POINT	WM	WATER METER
MAX.	MAXIMUM	WV	WATER VALVE
MIN.	MINIMUM		

PATTERN LEGEND:

- PEDESTRIAN CONCRETE PAVEMENT (REFER TO SHEET C5.00 FOR DETAILS)
- PASSENGER VEHICLE ASPHALT (REFER TO SHEET C5.00 FOR DETAILS)
- PLANTER AREA/LANDSCAPE (REFER TO LANDSCAPING PLANS FOR DETAILS)
- EXISTING BUILDING (REFER TO ARCHITECTURAL PLANS FOR DETAILS)
- PERMEABLE PAVERS (REFER TO LANDSCAPE PLANS FOR DETAILS)

CONSTRUCTION QUANTITIES:

FIRE WATER PIPING: 272 LF
PAVEMENT SAW CUTTING: 226 LF
CONCRETE SIDEWALK PAVING: 2267 SF
ASPHALT PAVING: 964 SF

ESTIMATED EARTHWORK QUANTITIES

CUT:	**39** CUBIC YARDS
FILL:	**37** CUBIC YARDS
NET **(CUT)**:	**2** CUBIC YARDS

NOTES:
1. THE ESTIMATED QUANTITIES PROVIDED ABOVE ARE TO BE USED FOR JURISDICTIONAL PLAN CHECKING AND PERMITTING PURPOSES ONLY.
2. ESTIMATED EARTHWORK ABOVE IS BASED ON DESIGN FINISH GRADES TO EXISTING GRADES AND/OR CONTOURS AS PROVIDED ON THE BASE SURVEY. THE ESTIMATED EARTHWORK DOES NOT ACCOUNT FOR THE THICKNESS OF PAVEMENTS, DEEPEND FOUNDATIONS, FOOTINGS, CLEARING AND GRUBBING, AND CONSTRUCTION MEANS AND METHODS.
3. THE ESTIMATED EARTHWORK QUANTITIES DO NOT INCLUDE SHRINKAGE AND/OR EXPANSION FACTORS DUE TO COMPACTION OR OVER EXCAVATION QUANTITIES.
4. THE CONTRACTOR SHALL CALCULATE THEIR OWN EARTHWORK QUANTITIES NECESSARY FOR THEIR BID AND WORK.

PROJECT DIRECTORY:

ARCHITECT:
JM | A+D
516 N SEPULVEDA BLVD
#201, MANHATTAN BEACH,
CA 90266
TEL: 424.385.8721
CONTACT: JEFFREY MILLER

LANDSCAPE ARCHITECT:
UPLA STUDIO
4572 VIA MARINA, APT 105
MARINA DEL REY,
CA 90292-8721
TEL: 310.684.3550
CONTACT: STEPHANIE REED

STRUCTURAL ENGINEER:
KPFF CONSULTING ENGINEERS
700 SOUTH FLOWER STREET
SUITE 2000
LOS ANGELES, CA 90017
TEL: 213.418.0201
FAX: 213.266.5294
CONTACT: SALEEM MUHAMMAD

CIVIL ENGINEER:
KPFF CONSULTING ENGINEERS
700 SOUTH FLOWER STREET
SUITE 2100
LOS ANGELES, CA 90017
TEL: 213.418.0201
FAX: 213.266.5294
CONTACT: KRISTEN SHARER

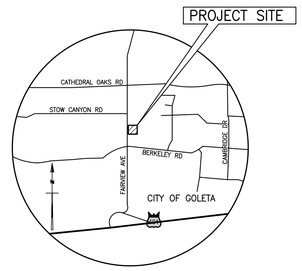
MECHANICAL/PLUMBING ENGINEER:
INTERFACE ENGINEERING
601 S FIGUEROA ST #2750,
LOS ANGELES, CA 90017
TEL: 213.694.3434
CONTACT: DANNY LUCAS

ELECTRICAL ENGINEER:
INTERFACE ENGINEERING
601 S FIGUEROA ST #2750,
LOS ANGELES, CA 90017
TEL: 213.694.3434
CONTACT: HAOYAN HUANG

SURVEYOR:
KPFF CONSULTING ENGINEERS
700 SOUTH FLOWER STREET
SUITE 2100
LOS ANGELES, CA 90017
TEL: 213.418.0201
FAX: 213.266.5294
CONTACT: DENISSE BERMEJO

SHEET INDEX:

CIVIL DRAWINGS	
C0.01	TITLE SHEET
C1.00	SURVEY (FOR REFERENCE ONLY)
C1.01	SURVEY (FOR REFERENCE ONLY)
C1.02	SURVEY (FOR REFERENCE ONLY)
C1.10	EROSION CONTROL PLAN
C1.20	DEMOLITION PLAN
C1.30	GRADING PLAN
C1.50	UTILITY PLAN
C1.60	PAVING PLAN
C5.00	CIVIL DETAILS
C5.01	CIVIL DETAILS



VICINITY MAP
NOT TO SCALE

GOLETA LIBRARY

CITY OF GOLETA

500 N Fairview Ave
Goleta, CA 93117

Designer:
JM | A+D
516 N Sepulveda Blvd,
Manhattan Beach, CA 90266
(310) 684-3550
www.JMADstudio.com

Consultants: kpff

Consultants: UPLA STUDIO

Consultants: INTERFACE ENGINEERING

Consultants: JENSEN HUGHES

Issued For:

No.	Description:	Date:
	100% SCHEMATIC DESIGN	11 OCT 2024
	100% DESIGN DEVELOPMENT	22 NOV 2024
	60% CONSTRUCTION DOCUMENT	07 MAR 2025
	ISSUED FOR PERMIT	20 MAR 2025
	90% CONSTRUCTION DOCUMENT	08 AUG 2025
	ISSUED FOR PERMIT REVISION 1	08 AUG 2025
	ISSUED FOR BID	29 SEP 2025

ISSUED FOR BID 13 OCT 2025

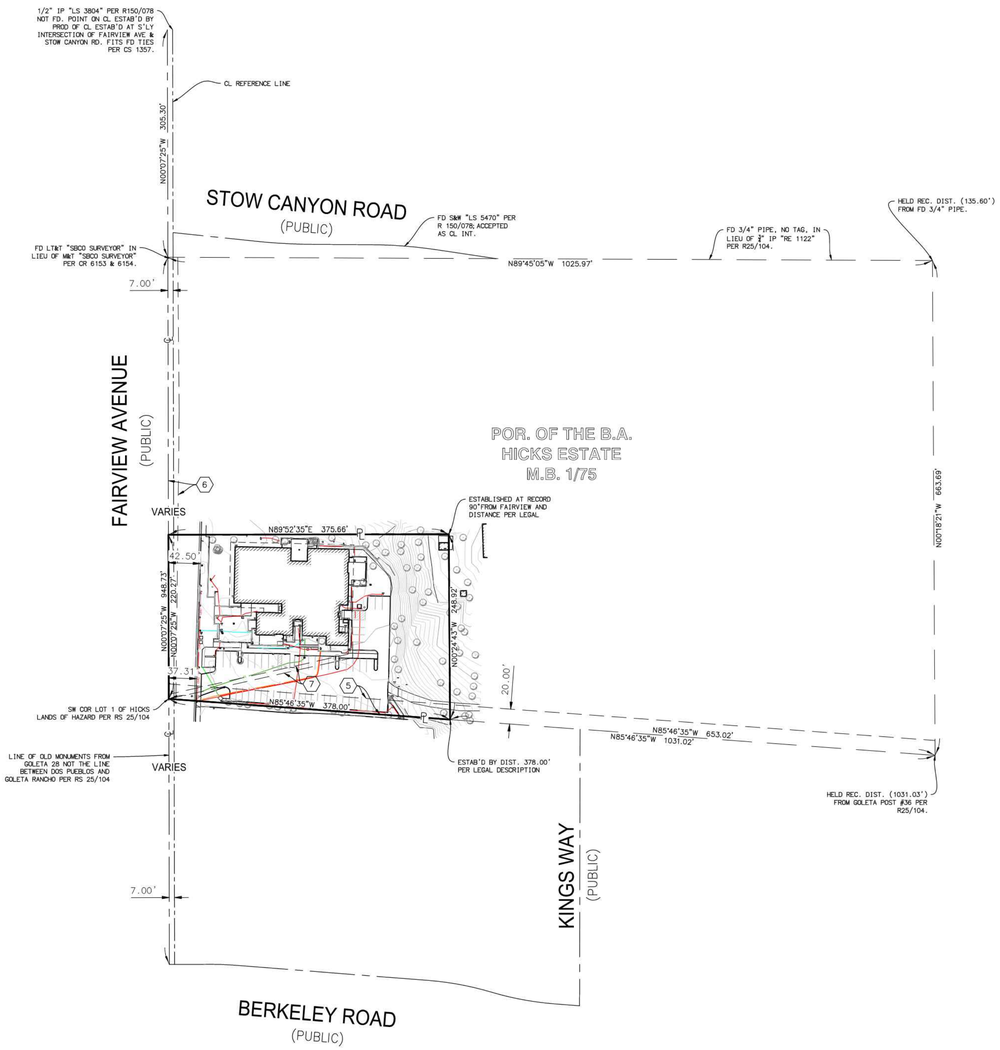
Seal & Signature:
REGISTERED PROFESSIONAL ENGINEER — JEFFREY B. MANZA — No. 59894 — Exp. 12/31/25 — CIVIL — STATE OF CALIFORNIA

Sheet Name:
TITLE SHEET

Project No.:	Sheet No.:
2400064	C0.01
Drawn By: DM	
Checked By: KS	
Scale: AS NOTED	

9/29/2025 3:43:38 PM P:\2024\2400064 Goleta Valley Library\5 CAD\Sheets\2400064-C-0.01TGN.dwg

DESIGN SURVEY



LEGAL DESCRIPTION

(PER FIDELITY NATIONAL TITLE COMPANY FILE NO. FSBA–425240014–SA DATED FEBRUARY 23, 2024 AT 07:30 AM)

THE LAND REFERRED TO HEREIN BELOW IS SITUATED IN THE CITY OF GOLETA, COUNTY OF SANTA BARBARA, STATE OF CALIFORNIA AND IS DESCRIBED AS FOLLOWS:

THOSE PORTIONS OF LOTS 1 AND 3 OF THE B. A. HICKS ESTATE LYING WITHIN RANCHO LA GOLETA, IN THE CITY OF GOLETA, COUNTY OF SANTA BARBARA, STATE OF CALIFORNIA, AS SHOWN ON MAP FILED IN BOOK 1, PAGE 75 OF MAPS & SURVEYS BEING DESCRIBED AS FOLLOWS:

BEGINNING AT THE SOUTHWESTERLY CORNER OF LOT 1 OF SAID HICKS ESTATE, ALSO BEING THE SOUTHWESTERLY CORNER OF THE TRACT OF LAND CONVEYED IN THE DEED TO THEODORE F. HARMS AND JOSEPHINE B. HARMS, HUSBAND AND WIFE, AS JOINT TENANTS, RECORDED JANUARY 13, 1955 IN BOOK 1291, PAGE 527 OF OFFICIAL RECORDS;

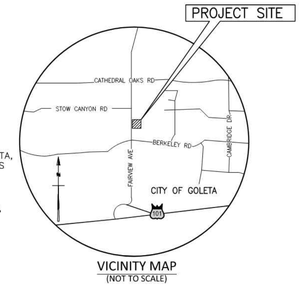
THENCE 1ST, ALONG THE SOUTHERLY LINE OF SAID HARMS TRACT OF LAND, SOUTH 85°58'08" EAST, 378.00 FEET TO A POINT;

THENCE 2ND, NORTH 0°04'33" WEST, 245.00 FEET TO A POINT;

THENCE 3RD, NORTH 89°43'08" WEST, 375.66 FEET TO A POINT IN THE WESTERLY LINE OF SAID HARMS TRACT OF LAND;

THENCE 4TH, AT RIGHT ANGLES AND ALONG THE WESTERLY LINE, SOUTH 0°16'52" WEST, 220.27 FEET TO THE TRUE POINT OF BEGINNING.

APN: 069–090–056



VICINITY MAP
(NOT TO SCALE)

EXCEPTIONS

(PER FIDELITY NATIONAL TITLE COMPANY FILE NO. FSBA–425240014–SA DATED FEBRUARY 23, 2024 AT 07:30 AM)

5. EASEMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO, AS GRANTED IN A DOCUMENT:

   GRANTED TO: COUNTY OF SANTA BARBARA AND SANTA BARBARA COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT
   PURPOSE: STORM DRAIN
   RECORDING DATE: FEBRUARY 15, 1968
   RECORDING NO.: 5972, BOOK 2222, PAGE 252, OF OFFICIAL RECORDS
   AFFECTS: SOUTHERLY 20 FEET

6. AN IRREVOCABLE OFFER TO DEDICATE AN EASEMENT OVER A PORTION OF SAID LAND FOR
   PURPOSE(S): STREET WIDENING
   RECORDING DATE: AUGUST 12, 1969
   RECORDING NO.: 22971, BOOK 2280, PAGE 1286, OF OFFICIAL RECORDS
   AFFECTS: WESTERLY PORTION WITHIN NORTH FAIRVIEW AVENUE

   SAID OFFER WAS ACCEPTED FOR PUBLIC USE BY A RESOLUTION NO. 69–427 OF THE SANTA BARBARA COUNTY BOARD OF SUPERVISORS IN DOCUMENT MENTIONED ABOVE.

7. EASEMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO, AS GRANTED IN A DOCUMENT:

   GRANTED TO: SOUTHERN CALIFORNIA EDISON COMPANY
   PURPOSE: PUBLIC UTILITIES
   RECORDING DATE: DECEMBER 10, 1971
   RECORDING NO.: 40217, BOOK 2375, PAGE 1449, OF OFFICIAL RECORDS
   AFFECTS: A STRIP OF LAND 6 FEET IN WIDTH

*REMAINING PRELIMINARY TITLE REPORT ITEMS NOT SHOWN ABOVE ARE NOT PLOTTABLE OR NOT A SURVEY MATTER.

COMMENTS

DATE OF SURVEY	JULY 15–19, 2024
SITE ADDRESS	500 NORTH FAIRVIEW AVENUE, GOLETA, CA 93117
APN NO.	069–090–056
BOUNDARY LINES	WERE ESTABLISHED FROM THE RECOVERED CITY, COUNTY AND/OR PRIVATE ENGINEER MONUMENTS WHOSE CHARACTER AND SOURCE ARE SO NOTED ON THE SURVEY.
BASIS OF BEARINGS .	THE BEARING OF N00°07'25"W ALONG THE CENTERLINE OF FAIRVIEW AVENUE AS SHOWN ON TRACT NO. 13,526, AS RECORDED IN MAP BOOK 150, PAGES 77 & 78, WAS TAKEN AS THE BASIS OF BEARINGS FOR THIS SURVEY.
BENCHMARK	ELEVATIONS ON THIS SURVEY ARE BASED ON AN ASSUMED ELEVATION OF 100.00 FEET AT PT. 200 FD TIN SHOWN HEREON.
⟨#⟩	INDICATES PRELIMINARY TITLE REPORT EXCEPTION NUMBER PLOTTED HEREON.
LAND AREA	88,266 SQ. FT. OR 2.026 ACRES, MORE OR LESS.
UTILITY NOTE	ALL OBSERVED UTILITIES SHOWN ON THIS MAP WERE OBTAINED BY CONVENTIONAL MEANS. THEY ARE FOR INFORMATION ONLY. ALL UNDERGROUND UTILITIES SHOWN HEREIN/HERON WERE OBTAINED FROM UTILITY MARKINGS FROM ELECTROMAGNETIC DETECTION. ALL SAID UNDERGROUND UTILITIES ARE FOR INFORMATION ONLY, HAVING BEEN OBTAINED FROM OTHER SOURCES, NOT CONNECTED WITH THIS COMPANY OR PROFESSIONAL LAND SURVEYOR. NO REPRESENTATION IS MADE AS TO THE ACCURACY OR COMPLETENESS OF SAID INFORMATION AND ANY USER OF THIS INFORMATION SHOULD CONTACT THE UTILITY OR GOVERNMENT AGENCY DIRECTLY IN PLANNING, CONSTRUCTION, OR ANY SUCH MATTER RELATIVE TO THE UTILITIES.
FLOOD INSURANCE RATE MAP	ZONE "X" AREAS DETERMINED TO BE WITHIN THE AREA OF MINIMAL FLOOD HAZARD PER FLOOD INSURANCE RATE MAP (FIRM) MAP PANEL MAP NO. 06083C1354G, EFFECTIVE 12/04/2012.
ZONING	OTHER DISTRICTS – PQ PUBLIC AND QUASI–PUBLIC; ACCESSED THROUGH THE CITY OF GOLETA WEBSITE ON 07/29/2024.

PREPARED UNDER THE DIRECTION OF:

08/06/2025

CHRISTOPHER JONES, PLS 8193
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LICENSED LAND SURVEYOR CHRISTOPHER N. JONES No.8193 STATE OF CALIFORNIA

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PROJECT #	2400066
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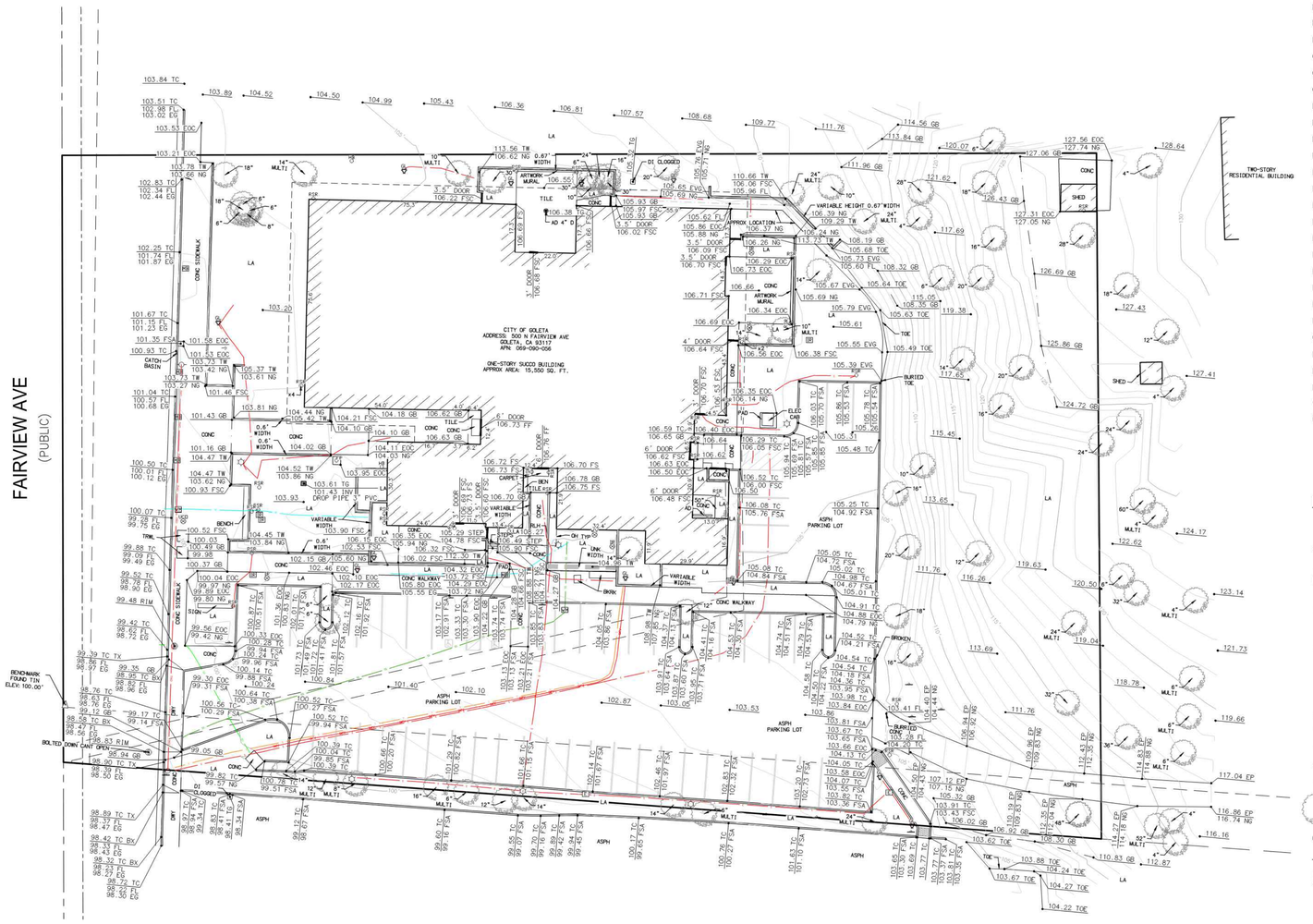
DESIGN SURVEY



ABBREVIATIONS

AD	AREA DRAIN
ASPH	ASPHALT
BEN	BENCH
BKRK	BIKE RACK
BX	BOTTOM OF TRANSITION
CAB	CABINET
CATV	CABLE TELEVISION
CONC	CONCRETE
D	DIAMETER
DI	DROP INLET
DWY	DRIVEWAY
EG	EDGE OF GUTTER
ELEC	ELECTRIC
ELEV	ELEVATION
EOC	EDGE OF CONCRETE
EP	EDGE OF PAVEMENT
EVG	EDGE OF V-GUTTER
FL	FLOWLINE
FF	FINISHED FLOOR
FS	FINISHED SURFACE
FSA	FINISHED SURFACE ASPHALT
FSC	FINISHED SURFACE CONCRETE
GB	GRADE BREAK
ILL	ILLEGIBLE
INV	INVERSE
LA	LANDSCAPE AREA
(N)	NORTH
NG	NATURAL GROUND

ABBREVIATIONS (CONT)

OH	BUILDING OVERHANG
OS	OFFSET
PVC	POLYVINYL CHLORIDE
RLH	HAND RAIL
SD	STORM DRAIN
SS	SANITARY SEWER
TC	TOP OF CURB
TEL COM	TELECOMMUNICATIONS
TG	TOP OF GRATE
TOE	TOE OF SLOPE
TRWL	TREE WELL
TX	TOP OF TRANSITION
TW	TOP OF WALL
TYP	TYPICAL
UNK	UNKNOWN
(W)	WEST
W	WATER

LEGEND

- AREA DRAIN (SQUARE)
- AREA DRAIN (CIRCLE)
- AREA LIGHT
- CONTROL POINT
- ELECTRIC PULLBOX
- FLAG POLE
- GROUND LIGHT
- GUY WIRE
- HANDICAP PARKING
- HOSE BIB
- IRRIGATION CONTROL BOX
- IRRIGATION CONTROL VALVE
- MAILBOX
- RISER
- SEWER MANHOLE
- SIGN
- STORM DRAIN MANHOLE
- TREE
- UNIDENTIFIED CLEAN OUT
- UTILITY POLE
- WATER METER
- WATER VALVE

LINETYPES

- BUILDING LINE/HATCH
- BUILDING OVERHANG
- CATV LINE
- CENTERLINE
- CURB FACE WITH BACK OF CURB (0.5' O/S)
- DOME
- EASEMENT LINE
- FLOWLINE
- GRADEBREAK
- LOT LINE
- OVERHANG UTILITY
- PROPERTY LINE
- RIGHT OF WAY LINE
- SANITARY SEWER LINE
- STORM DRAIN LINE
- TELECOMMUNICATIONS LINE
- WALL
- WATER LINE

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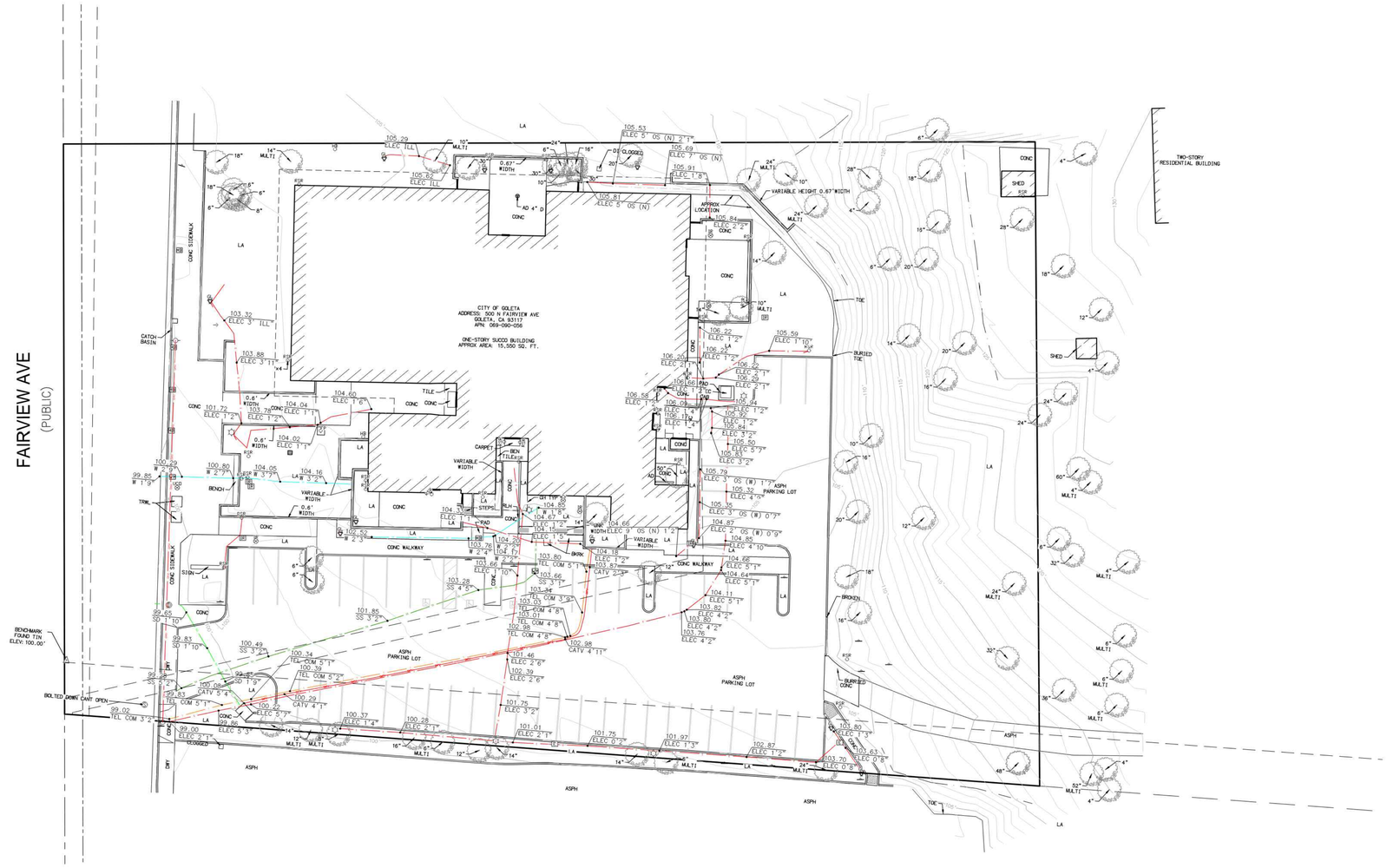
DESIGN SURVEY

UTILITY MARKINGS



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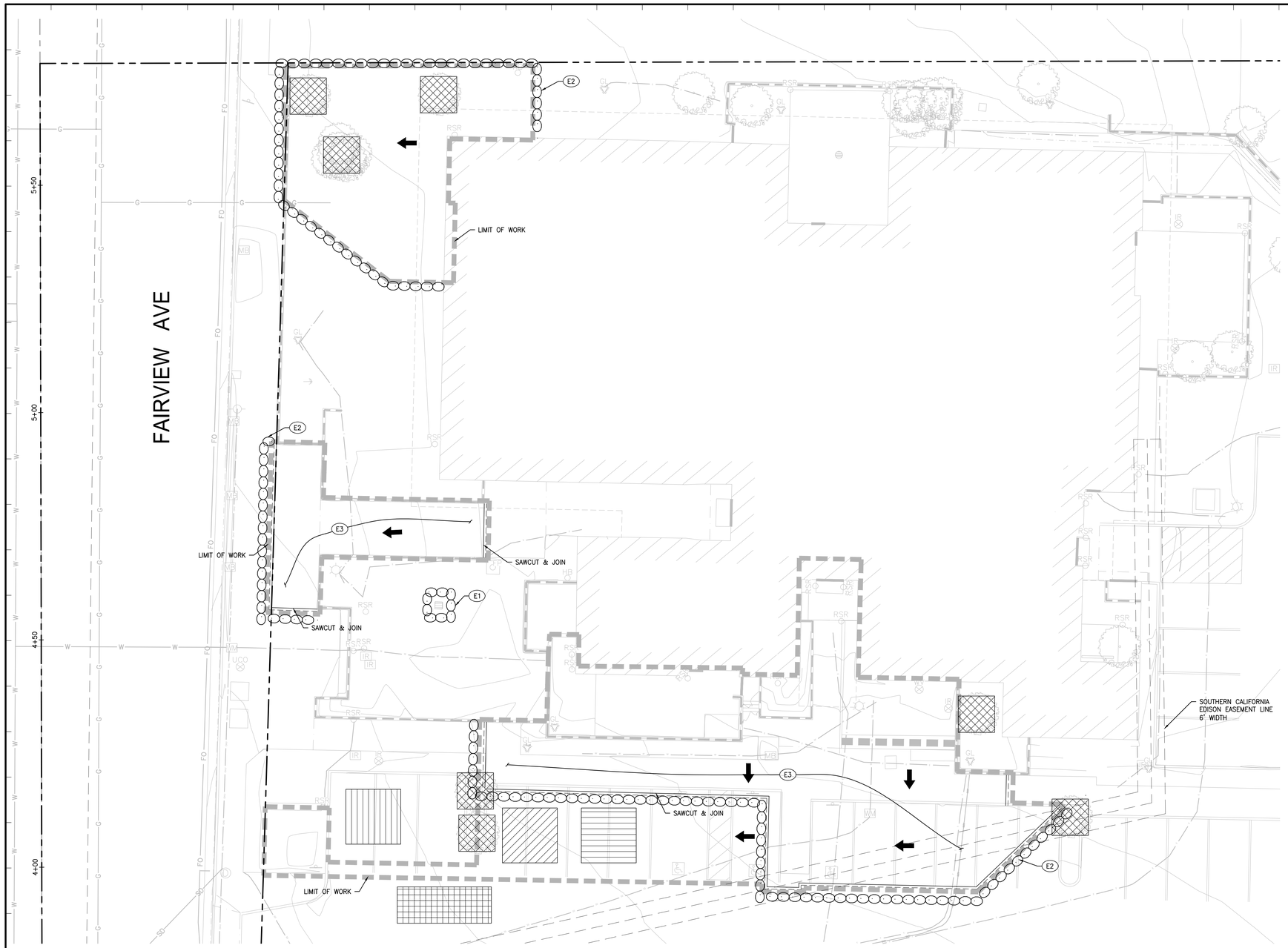


BMP NOTES:

THE FOLLOWING BMPS AS OUTLINED IN, BUT NOT LIMITED TO, CALIFORNIA STORMWATER ASSOCIATION (CASQA) STORMWATER BEST MANAGEMENT PRACTICE (BMP) HANDBOOK, AUGUST 2023, MAY APPLY DURING THE CONSTRUCTION OF THIS PROJECT (ADDITIONAL MEASURES MAY BE REQUIRED IF DEEMED APPROPRIATE BY CITY INSPECTORS):

EROSION CONTROL

EC1–SCHEDULING
EC2–PRESERVATION OF EXISTING VEGETATION
EC3–HYDRAULIC MULCH
EC4–HYDROSEEDING
EC5–SOIL BINDERS
EC6–STRAW MULCH
EC7–GEOTEXTILES AND MATS
EC8–WOOD MULCHING
EC9–EARTH DIKES AND DRAINAGE SWALES
EC10–VELOCITY DISSIPATION DEVICES
EC11–SLOPE DRAINS
EC12–STREAMBANK STABILIZATION
EC13–RESERVED
EC14–COMPOST BLANKETS
EC15–SOIL PREPARATION/ROUGHENING
EC16–NON–VEGETATIVE STABILIZATION

TEMPORARY SEDIMENT CONTROL

SE1–SILT FENCE
SE2–SEDIMENT BASIN
SE3–SEDIMENT TRAP
SE4–CHECK DAM
SE5–FIBER ROLLS
SE6–GRAVEL BAG BERM
SE7–STREET SWEEPING AND VACUUMING
SE8–SANDBAG BARRIER
SE9–STRAW BALE BARRIER
SE10–STORM DRAIN INLET PROTECTION
SE11–ACTIVE TREATMENT SYSTEMS
SE12–MANUFACTURED LINEAR SEDIMENT CONTROLS
SE13–COMPOST SOCKS AND BERMS
SE14–BIOFILTER BAGS

EQUIPMENT TRACKING CONTROL

TC1–STABILIZED CONSTRUCTION ENTRANCE/EXIT
TC2–STABILIZED CONSTRUCTION ROADWAY
TC3–ENTRANCE/OUTLET TIRE WASH

WIND EROSION CONTROL

WE1–WIND EROSION CONTROL

NON–STORMWATER MANAGEMENT

NS1–WATER CONSERVATION PRACTICES
NS2–DEWATERING OPERATIONS
NS3–PAVING AND GRINDING OPERATIONS
NS4–TEMPORARY STREAM CROSSING
NS5–CLEAR WATER DIVERSION
NS6–ILLICIT CONNECTION/DISCHARGE
NS7–POTABLE WATER/IRRIGATION
NS8–VEHICLE AND EQUIPMENT CLEANING
NS9–VEHICLE AND EQUIPMENT FUELING
NS10–VEHICLE AND EQUIPMENT MAINTENANCE
NS11–PILE DRIVING OPERATIONS
NS12–CONCRETE CURING
NS13–CONCRETE FINISHING
NS14–MATERIAL OVER WATER
NS15–DEMOLITION ADJACENT TO WATER
NS16–TEMPORARY BATCH PLANTS

WASTE MANAGEMENT & MATERIALS POLLUTION CONTROL

WM1–MATERIAL DELIVERY AND STORAGE
WM2–MATERIAL USE
WM3–STOCKPILE MANAGEMENT
WM4–SPILL PREVENTION AND CONTROL
WM5–SOLID WASTE MANAGEMENT
WM6–HAZARDOUS WASTE MANAGEMENT
WM7–CONTAMINATED SOIL MANAGEMENT
WM8–CONCRETE WASTE MANAGEMENT
WM9–SANITARY/SEPTIC WASTE MANAGEMENT
WM10–LIQUID WASTE MANAGEMENT

EROSION CONTROL NOTES:

1. TEMPORARY EROSION CONTROL DEVICES SHOWN ON THE GRADING PLAN WHICH INTERFERE WITH THE WORK SHALL BE RELOCATED OR MODIFIED AS AND WHEN THE INSPECTOR SO DIRECTS AS THE WORK PROGRESSES TO MEET "AS GRADED" CONDITIONS.
2. ALL LOOSE SOIL AND DEBRIS SHALL BE REMOVED FROM THE STREET AREAS UPON STARTING OPERATIONS AND PERIODICALLY THEREAFTER AS DIRECTED BY THE INSPECTOR
3. WHEN THE INSPECTOR SO DIRECTS, A 12–INCH BERM SHALL BE MAINTAINED ALONG THE TOP OF THE SLOPE OF THOSE FILLS ON WHICH GRADING IS NOT IN PROGRESS.
4. STORM AND SEWER DRAIN TRENCHES THAT ARE CUT THROUGH BASIN DIKES OR BASIN INLET DIKES SHALL BE PLUGGED WITH SANDBAGS.
5. EXCEPT WHEN THE INSPECTOR DIRECTS OTHERWISE, OR WHEN ACTIVE CONSTRUCTION PREVENTS THE DEVICES FROM BEING IN PLACE, ALL DEVICES SHOWN SHALL BE IN PLACE AND SHALL BE MAINTAINED AT ALL TIMES.
6. SANDBAGS SHALL BE STOCKPILED ON SITE, READY TO BE PLACED IN POSITION WHEN RAIN IS FORECAST, OR WHEN THE INSPECTOR SO DIRECTS.
7. A "STANDBY EMERGENCY CREW" SHALL BE ALERTED BY THE PERMITTEE OR THE CONTRACTOR TO PERFORM EMERGENCY WORK DURING RAINSTORMS. THE PARTY TO BE CONTACTED IS:
   NAME: _____ (TO BE FILLED IN BY CONTRACTOR)
   PHONE NUMBER: _____

DUST CONTROL NOTES:

1. DUST SHALL BE CONTROLLED BY WATERING AND/OR APPLYING A DUST PALLIATIVE. THE DUST PALLIATIVE SHALL BE APPLIED IN THE AMOUNT AT THE LOCATIONS AS DIRECTED BY THE ENGINEER.
2. WATER FOR DUST CONTROL SHALL BE APPLIED BY MEANS OF PRESSURE TYPE DISTRIBUTORS OR PIPE LINES EQUIPPED WITH A SPRAY SYSTEM OR HOSES WITH NOZZLES THAT WILL ENSURE A UNIFORM APPLICATION OF WATER.
3. UNLESS WATER IS APPLIED BY MEANS OF PIPE LINES, AT LEAST ONE MOBILE UNIT WITH A MINIMUM CAPACITY OF 100 GALLONS SHALL BE AVAILABLE FOR APPLYING WATER.
4. ALL SOIL MATERIALS OR DEBRIS TRUCKED FROM THE SITE SHALL BE COVERED AND SPRINKLED PRIOR TO ENTERING PUBLIC STREETS.
5. PROVIDE FOR WET SUPPRESSION OR CHEMICAL STABILIZING OF EXPOSED SOILS.
6. PROVIDE FOR RAPID CLEAN–UP OF SEDIMENTS DEPOSITED ON THE PAVED ROADS.
7. LIMIT THE AMOUNT OF AREAS DISTURBED BY CLEARING & EARTH MOVING OPERATIONS BY SCHEDULING THESE ACTIVITIES IN PHASES.

EROSION CONTROL NOTES:

(E1) PROVIDE INLET PROTECTION PER DETAIL SE10, HEREON.
(E2) PLACE GRAVEL BAGS TRIPLE ROW PER DETAIL SE6, HEREON.
(E3) PAVING AND GRINDING OPERATIONS (NS3) PER CASQA RECOMMENDATIONS.

LEGEND

- LIMIT LINE OF EROSION CONTROL
- PROPERTY LINE
- GRAVEL BAGS
- FIBER ROLL
- DIRECTION OF FLOW
- PROTECT TREE IN PLACE
- MATERIAL DELIVERY AND STORAGE (WM1) PER CASQA RECOMMENDATIONS. SUBJECT TO CHANGE PER CONTRACTORS MEANS, METHODS, AND SEQUENCE OF WORK.
- SOLID WASTE MANAGAEMENT (WM5) PER CASQA RECOMMENDATIONS. SUBJECT TO CHANGE PER CONTRACTORS MEANS, METHODS, AND SEQUENCE OF WORK.
- CONCRETE WASTE MANAGEMENT (WM8) PER CASQA RECOMMENDATIONS. SUBJECT TO CHANGE PER CONTRACTORS MEANS, METHODS, AND SEQUENCE OF WORK.
- SANITARY/SEPTIC WASTE MANAGEMENT (WM9) PER CASQA RECOMMENDATIONS. SUBJECT TO CHANGE PER CONTRACTORS MEANS, METHODS, AND SEQUENCE OF WORK.

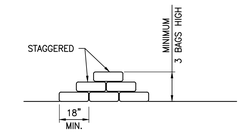
N

0 5' 10'

SCALE: 1"=10'

SLOPE INCLINATION	MAXIMUM SHEET FLOW LENGTH (FOR SLOPE INTERRUPTION)
< 4:1 (H:V)	*20'
4:1–2:1 (H:V)	*15'
> 2:1 (H:V)	*10'

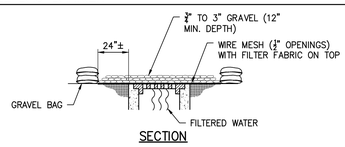
* FIRST ROW NEAR SLOPE TOE



NOTES:

1. BAG MATERIAL: BAGS SHOULD BE WOVEN POLYPROPYLENE, POLYETHYLENE OR POLYAMIDE FABRIC, MINIMUM UNIT WEIGHT OF 4 OUNCES/YD², MULLEN BURST STRENGTH EXCEEDING 300 LB/IN² IN CONFORMANCE WITH THE REQUIREMENTS IN ASTM DESIGNATION D3786, AND ULTRAVIOLET STABILITY EXCEEDING 70% IN CONFORMANCE WITH THE REQUIREMENTS IN ASTM DESIGNATION D4355.
2. BAG SIZE: EACH GRAVEL–FILLED BAG SHOULD HAVE A LENGTH OF 18 IN., WIDTH OF 12 IN., THICKNESS OF 3 IN., AND MASS OF APPROXIMATELY 33 LBS. BAG DIMENSIONS ARE NOMINAL, AND MAY VARY BASED ON LOCALLY AVAILABLE MATERIALS.
3. FILL MATERIAL: FILL MATERIAL SHALL BE 0.5 TO 1.0 INCH CRUSHED ROCK, CLEAN AND FREE OF CLAY, ORGANIC MATTER, AND OTHER DELETERIOUS MATERIAL, OR OTHER SUITABLE OPEN–GRADED, NON–COHESIVE, POROUS GRAVEL.
4. TURN THE ENDS OF GRAVEL BAG BARRIER UP SLOPE TO PREVENT RUNOFF FROM GOING AROUND BARRIER.
5. USE PYRAMID APPROACH WHEN STACKING BAGS.

SE6 GRAVEL BAG BARRIER N.T.S.



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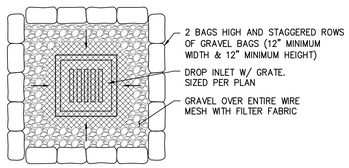

PLAN

NOTES:

1. PLACE WIRE MESH OVER AND 1' (MINIMUM) BEYOND THE INLET STRUCTURE. (MESH OPENINGS NOT TO EXCEED ½" x ½" WIRE)
2. PLACE FILTER FABRIC OVER WIRE MESH.
3. PLACE ¾" TO 3" GRAVEL OVER THE WIRE MESH WITH FILTER FABRIC (12" MINIMUM DEPTH OVER THE ENTIRE INLET OPENING).
4. BAG MATERIAL: BAGS SHOULD BE WOVEN POLYPROPYLENE, POLYETHYLENE OR POLYAMIDE FABRIC, MINIMUM UNIT WEIGHT OF 4 OUNCES/YD², MULLEN BURST STRENGTH EXCEEDING 300 LB/IN² IN CONFORMANCE WITH THE REQUIREMENTS IN ASTM DESIGNATION D3786, AND ULTRAVIOLET STABILITY EXCEEDING 70% IN CONFORMANCE WITH THE REQUIREMENTS IN ASTM DESIGNATION D4355.
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7. USE PYRAMID APPROACH WHEN STACKING BAGS.
8. LEAVE GAP OF ONE BAG ON TOP ROW TO SERVE AS SPILLWAY.

SE10 STORM DRAIN INLET PROTECTION N.T.S.

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EROSION CONTROL PLAN

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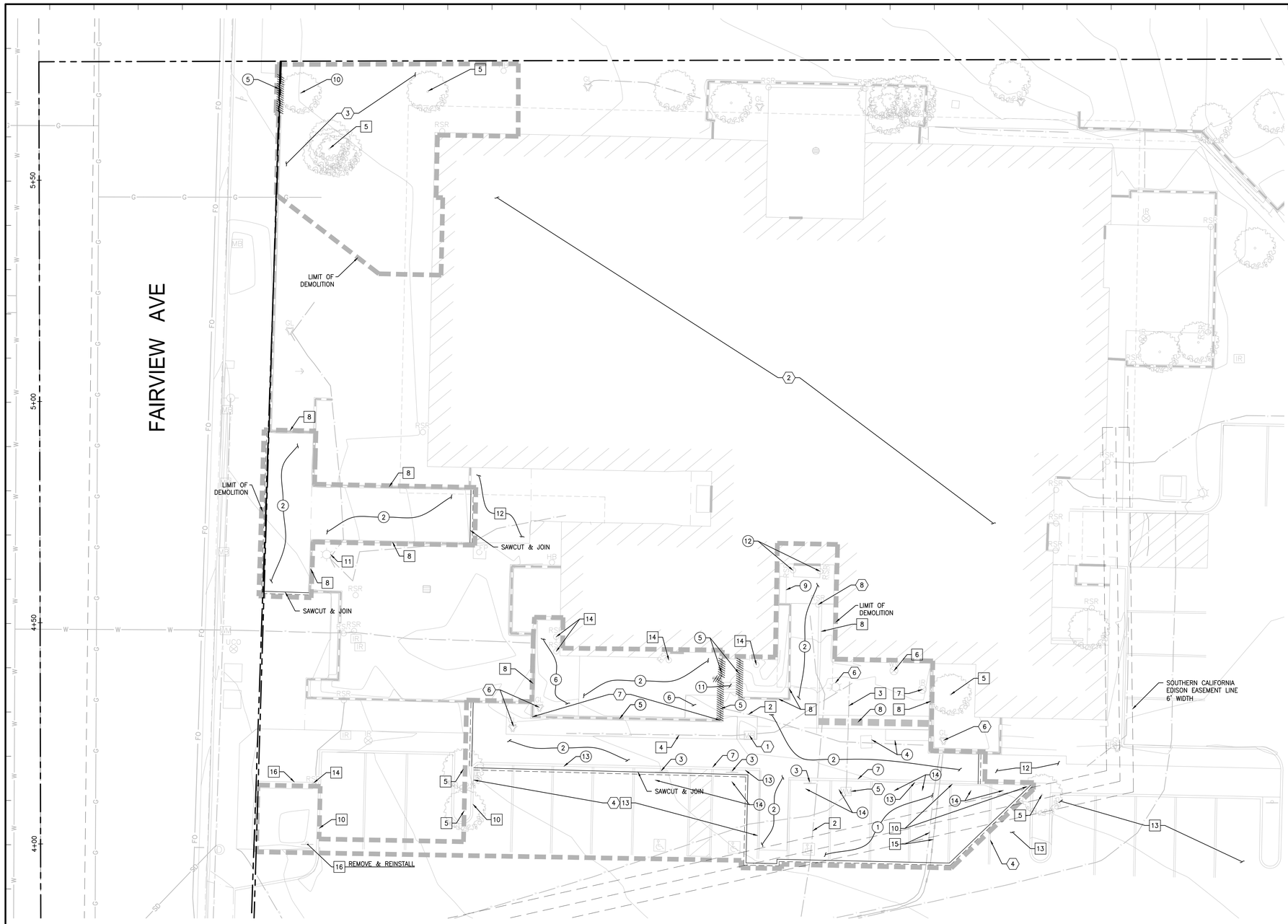

GENERAL DEMOLITION NOTES:

1. CONTRACTOR TO CLEAR PROJECT SITE AREA WITHIN THE CONFINES OF THE DEMOLITION LIMIT LINE. THE CONTRACTOR SHALL DEMOLISH AND REMOVE FROM THE SITE ALL EXISTING STRUCTURES, PLANTERS, TREES, AND ALL OTHER SITE FEATURES, UNLESS OTHERWISE NOTED ON THE PLAN.
2. REMOVAL OF LANDSCAPING SHALL INCLUDE ROOTS AND ORGANIC MATERIALS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY AND ALL PERMITS AND SHALL PAY ALL FEES NECESSARY FOR ENCROACHMENT, GRADING, DEMOLITION AND DISPOSAL OF SAID MATERIALS AS REQUIRED BY PRIVATE, LOCAL AND STATE JURISDICTIONS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR A SITE INSPECTION TO FULLY ACKNOWLEDGE THE EXTENT OF THE DEMOLITION WORK.
5. THE CONTRACTOR SHALL VERIFY AND LOCATE ALL EXISTING ABOVE AND UNDERGROUND UTILITIES. LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND ARE SHOWN FOR GENERAL INFORMATION ONLY.
6. DAMAGE TO ANY EXISTING UTILITIES AND SERVICES TO REMAIN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL REPAIR AND/OR REPLACE IN KIND.
7. EROSION CONTROL MEASURES SHALL BE IMPLEMENTED TO PREVENT DEBRIS AND UNSUITABLE MATERIALS FROM ENTERING STORM DRAINS, SANITARY SEWERS AND STREETS.
8. DUST CONTROL SHALL BE IMPLEMENTED DURING DEMOLITION.
9. DEMOLITION IS LIMITED TO WITHIN DEMOLITION LIMIT LINE UNLESS NOTED OTHERWISE.
10. THE CONTRACTOR SHALL VERIFY THE LOCATION AND QUANTITY OF EXISTING SURFACE STRUCTURES AND SHALL BE SOLELY RESPONSIBLE FOR ANY UNIDENTIFIED UTILITIES, IMPROVEMENTS, TREES, ETC. TO BE DEMOLISHED AND REMOVED WITHIN THE DEMOLITION LIMIT LINE, INCLUDING APPURTENANT FOUNDATIONS OR SUPPORTS.
11. DEMOLITION CALLOUTS IN THIS SECTION ARE REPRESENTATIVE OF WHAT IS TO BE DONE, NOT AN ITEMIZED ACCOUNTING FOR EACH PIPE, CATCH BASIN, MANHOLE, VAULT, ETC. THAT IS TO BE DEMOLISHED, REMOVED AND DISPOSED OF.

DEMOLITION NOTES:

PROTECT–IN–PLACE

1. ASPHALT
2. ELECTRICAL LINE
3. SEWER LINE
4. WATER LINE
5. TREE
6. WATER VALVE
7. IRRIGATION VALVE
8. WALL
9. WATER METER
10. CURB
11. LIGHTPOLE
12. CONCRETE PAVING
13. ASPHALT PAVING
14. UTILITY RISER
15. COMMUNICATION/DATA LINE
16. SIGN

DEMOLISH & REMOVE

1. ASPHALT PAVING
2. CONCRETE PAVING
3. SIGN
4. BIKE RACK
5. WALL
6. LANDSCAPE
7. CURB
8. CONCRETE BIKE RACK
9. BENCH
10. TREE
11. STEPS
12. DOOR STOPS
13. CURB DRAIN
14. WHEEL STOP

COORDINATION ITEMS

1. REMOVED BOOK DROP BOX.
2. REFER TO ARCHITECTURAL PLANS FOR PARTIAL DEMOLITION OF BUILDING.
3. PROTECT EXISTING LANDSCAPING EXCEPT AS REQUIRED TO CONSTRUCT NEW RAMP.
4. REMOVE STRIPING.
5. ADJUST CLEANOUT TO GRADE
6. REFER TO LANDSCAPE PLANS FOR DEMOLITION AND PROTECTION OF SITE LIGHTING.
7. PARTIAL DEMOLITION PER LANDSCAPE PLANS.
8. RELOCATE ADA PUSH BUTTON PER ARCHITECTURAL PLANS.

LEGEND:

- LIMIT OF DEMOLITION
- PROPERTY LINE
- DEMOLITION LINE
- SAWCUT AND JOIN

NOTE:
PROTECT IN PLACE ALL UTILITIES UNLESS OTHERWISE NOTED.

N

0 5' 10'

SCALE: 1"=10'

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REGISTERED PROFESSIONAL ENGINEER
JEFFREY B. MANZA
No. 59894
Exp. 12/31/25
CIVIL
STATE OF CALIFORNIA

Sheet Name:
DEMOLITION PLAN

Project No.:	Sheet No.:
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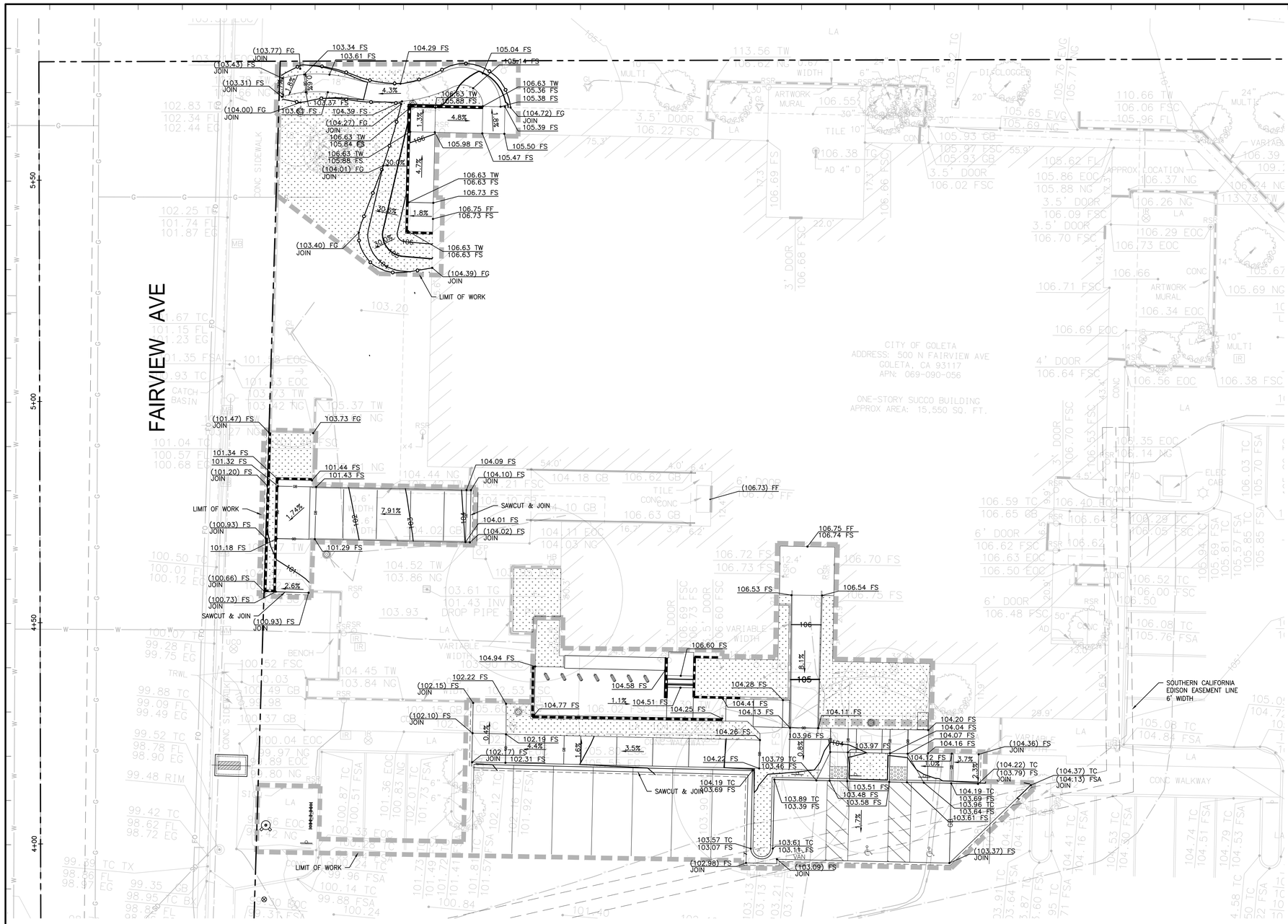

ESTIMATED EARTHWORK QUANTITIES	
CUT:	**39** CUBIC YARDS
FILL:	37 CUBIC YARDS
NET **(CUT)**:	**2** CUBIC YARDS

NOTES:

1. THE ESTIMATED QUANTITIES PROVIDED ABOVE ARE TO BE USED FOR JURISDICTIONAL PLAN CHECKING AND PERMITTING PURPOSES ONLY.
2. ESTIMATED EARTHWORK ABOVE IS BASED ON DESIGN FINISH GRADES TO EXISTING GRADES AND/OR CONTOURS AS PROVIDED ON THE BASE SURVEY. THE ESTIMATED EARTHWORK DOES NOT ACCOUNT FOR THE THICKNESS OF PAVEMENTS, DEEPEND FOUNDATIONS, FOOTINGS, CLEARING AND GRUBBING, AND CONSTRUCTION MEANS AND METHODS.
3. THE ESTIMATED EARTHWORK QUANTITIES DO NOT INCLUDE SHRINKAGE AND/OR EXPANSION FACTORS DUE TO COMPACTION OR OVER EXCAVATION QUANTITIES.
4. THE CONTRACTOR SHALL CALCULATE THEIR OWN EARTHWORK QUANTITIES NECESSARY FOR THEIR BID AND WORK.

NOTE:

I HAVE COMPLIED WITH THE CRITERIA OF THE ORDINANCE AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE GRADING DESIGN PLAN.

N

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SCALE: 1"=10'

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No. 59894
Exp. 12/31/25
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STATE OF CALIFORNIA

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GRADING PLAN

Project No.:	2400064	Sheet No.:
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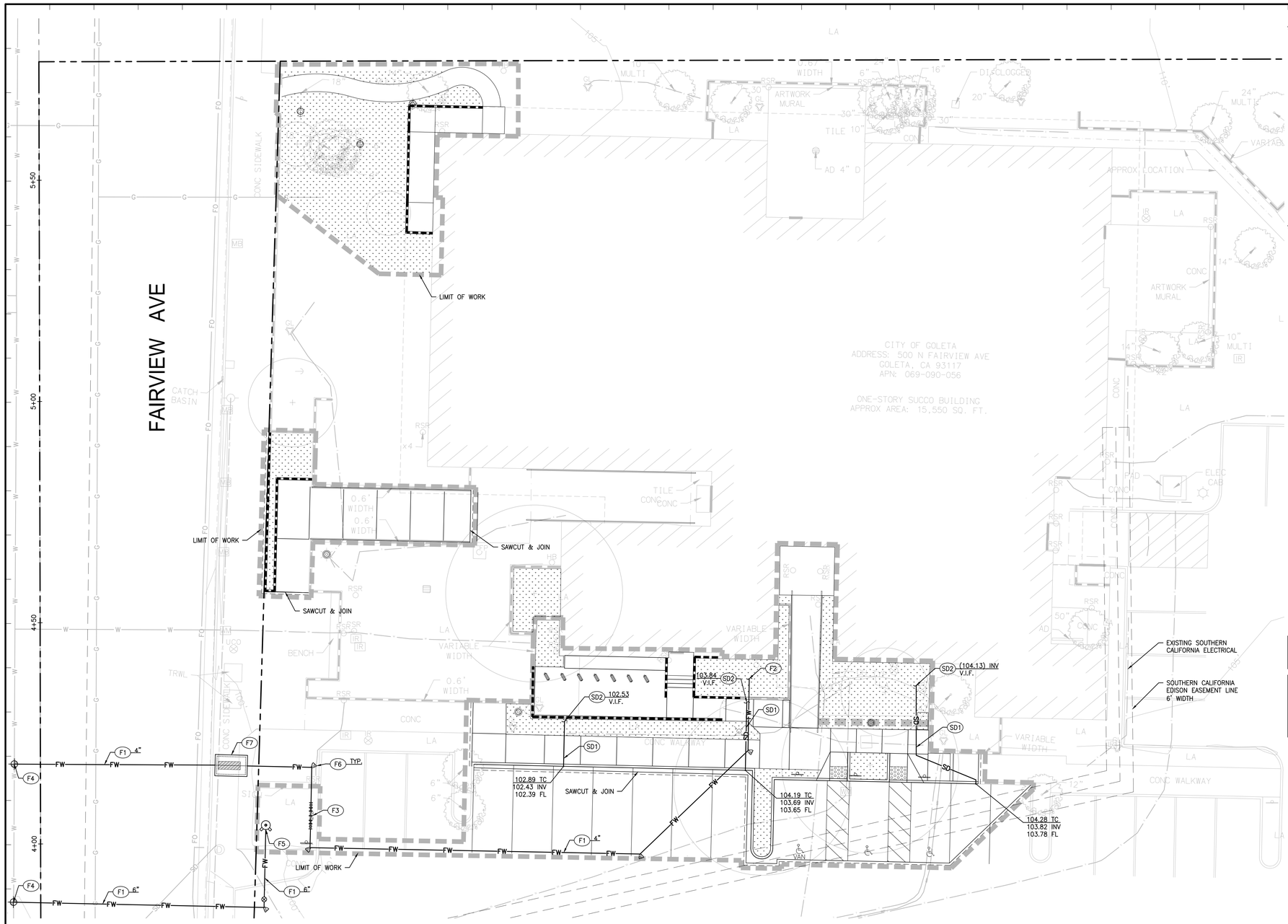

UTILITY CONSTRUCTION NOTES:

FIRE WATER

- (F1) PVC C-900 FIRE WATER PIPE PER DETAIL 2, SHEET C5.01. SIZE PER PLAN.
- (F2) POINT OF CONNECTION 5 FEET FROM BUILDING FACE. SEE FIRE SPRINKLER DRAWINGS FOR CONTINUATION.
- (F3) BACKFLOW PREVENTION DEVICE. PER DETAIL 1, SHEET C5.01.
- (F4) POINT OF CONNECTION TO EXISTING WATER MAIN PER GOLETA WATER DISTRICT STANDARD DETAIL 2-04.
- (F5) FIRE HYDRANT PER DETAIL 11 SHEET C5.00.
- (F6) THRUST BLOCK PER DETAIL 6 SHEET C5.01.
- (F7) METER PER GOLETA WATER DISTRICT STANDARD DETAIL.

STORM DRAIN

- (SD1) CURB DRAIN PER APWA STANDARD PLAN 150-4. N=1. INLET CASE = N/A.
- (SD2) POINT OF CONNECTION TO EXISTING ROOF DRAIN 5 FEET FROM BUILDING FACE. VERIFY IN FIELD.

LEGEND:

- LIMIT OF WORK
- PROPERTY LINE
- SS — SANITARY SEWER
- W — WATER
- DW — DOMESTIC WATER
- FW — FIRE WATER
- SD — STORM DRAIN
- G — GAS
- E — ELECTRIC
- T — TELEPHONE
- PERFORATED PIPE
- POINT OF CONNECTION
- COORDINATION POINT
- CAP OR PLUG
- UTILITY MANHOLE
- UTILITY CLEANOUT
- STORM DRAIN INLET
- AREA DRAIN/PLANTER DRAIN
- TRENCH DRAIN
- FIRE HYDRANT
- THRUST BLOCK
- FIRE DEPARTMENT CONNECTION (FDC)
- POST INDICATOR VALVE (PIV)
- WATER VALVE
- BACKFLOW ASSEMBLY
- UTILITY METER VAULT

NOTE:
IRRIGATION WATER METER, LINES AND APPURTENANCES BY OTHERS.

NOTE:
EXISTING UNDERGROUND UTILITIES ARE SHOWN BASED ON AVAILABLE RECORD AND AS-BUILT DRAWINGS AND GROUND PENETRATING RADAR (GPR) SCANS OF THE SITE. THE CONTRACTOR IS REQUIRED TO TAKE ALL PRECAUTIONARY MEASURES TO LOCATE EXISTING UTILITIES PRIOR TO CONSTRUCTION AND PROTECT THE UTILITIES SHOWN AND ANY OTHER UTILITIES NOT SHOWN ON THIS PLAN.

N

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SCALE: 1"=10'

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UTILITY PLAN

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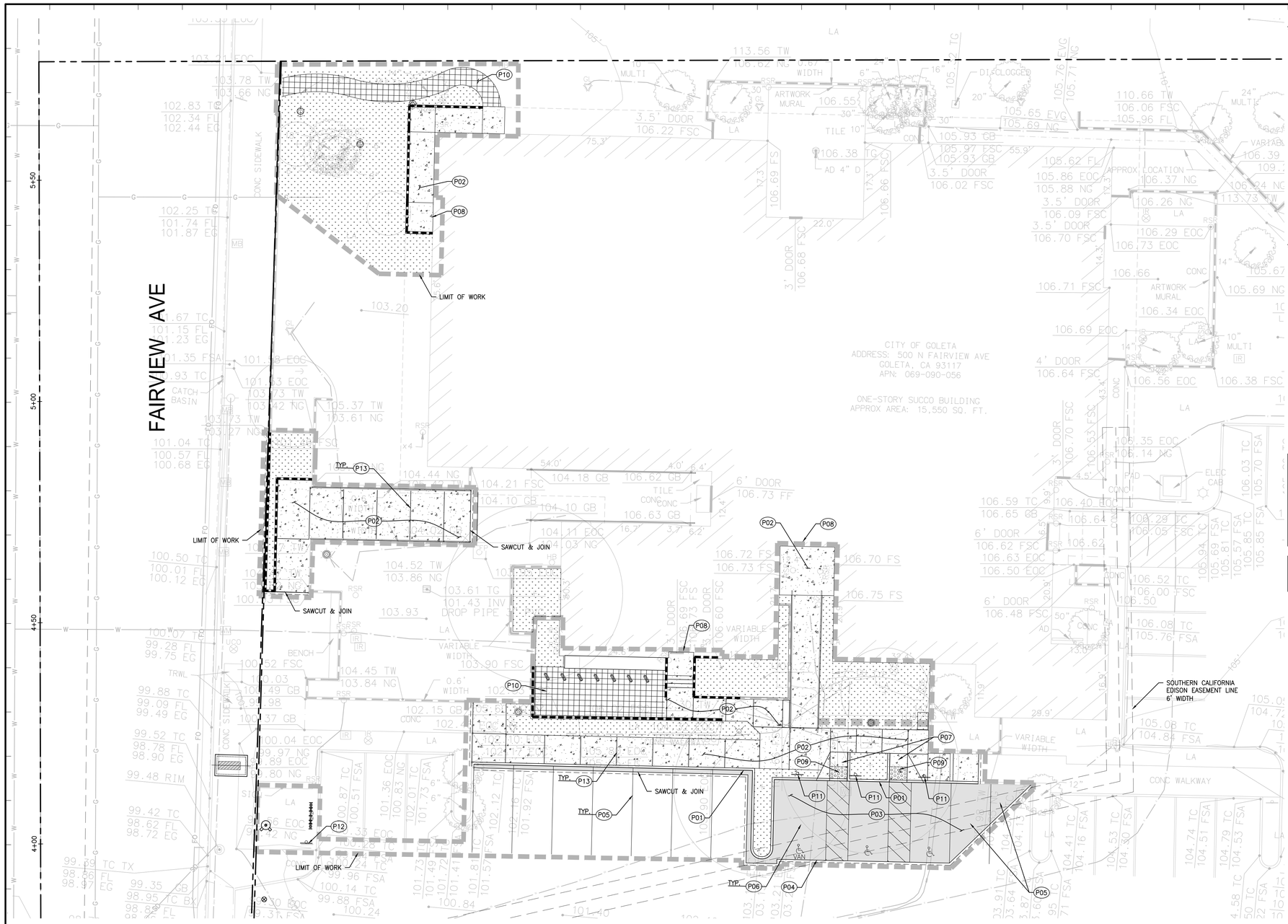

PAVING CONSTRUCTION NOTES

- P01 CONCRETE CURB. PER DETAIL 1 ON SHEET C5.00.
- P02 CONCRETE PAVEMENT. PER DETAIL 2 ON SHEET C5.00.
- P03 ASPHALT CONCRETE PAVEMENT. PER DETAIL 3 ON SHEET C5.00.
- P04 ASPHALT PAVEMENT JOIN. PER DETAIL 4 ON SHEET C5.00.
- P05 PARKING STALL. PER DETAIL 5 ON SHEET C5.00.
- P06 ACCESSIBLE PARKING STALL. PER DETAIL 6 ON SHEET C5.00.
- P07 CURB RAMP. PER DETAIL 7 ON SHEET C5.00.
- P08 ISOLATION JOIN AT STRUCTURE. PER DETAIL 3 ON SHEET C5.01.
- P09 TRUNCATED DOMES. PER DETAIL 4 ON SHEET C5.01.
- P10 PERMEABLE PAVERS PER LANDSCAPE DRAWINGS.
- P11 ACCESSIBLE PARKING SPACE SIGN. PER DETAIL 9 ON SHEET C5.00.
- P12 ACCESSIBLE PARKING IDENTIFICATION MOUNTED TO EXISTING SIGN POLE. PER DETAIL 10 ON SHEET C5.00.
- P13 CONTROL JOINT. PER DETAIL 5 ON SHEET C5.01.

LEGEND

- LIMIT OF WORK
- PROPERTY LINE
- SIGN
- PEDESTRIAN CONCRETE PAVEMENT (REFER TO SHEET C5.00 FOR DETAILS)
- PASSENGER VEHICLE ASPHALT (REFER TO SHEET C5.00 FOR DETAILS)
- PLANTER AREA/LANDSCAPE (REFER TO LANDSCAPING PLANS FOR DETAILS)
- EXISTING BUILDING (REFER TO ARCHITECTURAL PLANS FOR DETAILS)
- PERMEABLE PAVERS (REFER TO LANDSCAPE PLANS FOR DETAILS)

NOTE TO CONTRACTOR/CONSTRUCTION SURVEYOR:

CONSTRUCTION STAKING FOR IMPROVEMENTS SHOWN ON THESE PLANS SHALL BE PERFORMED BY A LICENSED LAND SURVEYOR. CONSTRUCTION STAKING SURVEYOR SHALL BE RESPONSIBLE FOR COORDINATION OF THESE PLANS WITH SOURCE DRAWINGS PREPARED BY ARCHITECT, LANDSCAPE ARCHITECT, STRUCTURAL ENGINEER, MEP CONSULTANT AND ANY OTHER DISCIPLINE PRIOR TO START OF STAKING AND CONSTRUCTION. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE START OF CONSTRUCTION SO THAT A CLARIFICATION CAN BE ISSUED.

NOTE:

SEE LANDSCAPE DRAWINGS FOR SOIL PREPARATION IN PLANTING AREAS.

N

0 5' 10'

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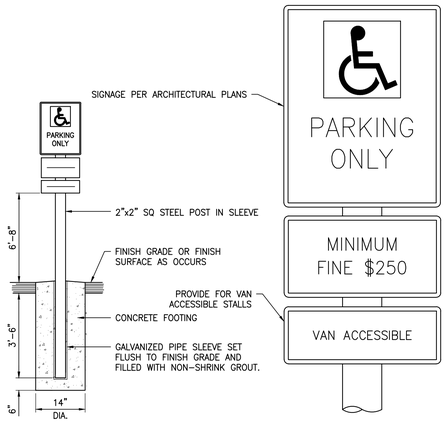
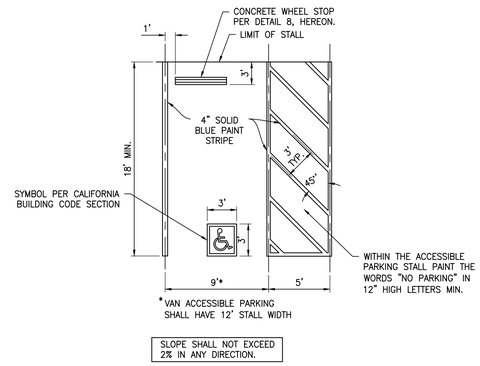
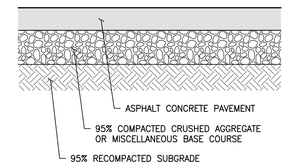


9 | IDENTIFICATION OF ACCESSIBLE PARKING SPACE N.T.S.

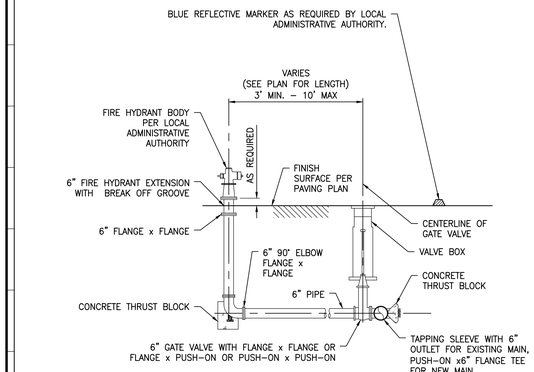


6 | ACCESSIBLE 90° PARKING STALL N.T.S.



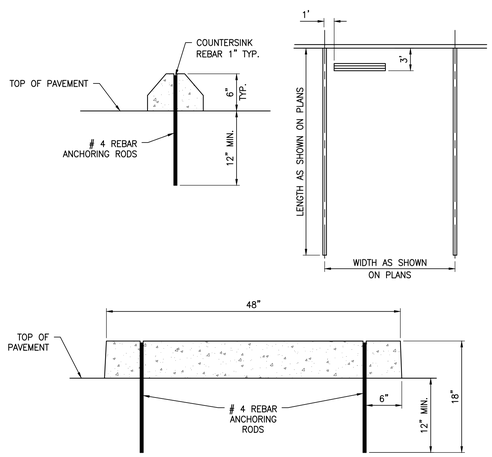
A.C. PAVEMENT TYPE	ASPHALT CONCRETE (INCHES)	BASE COURSE (INCHES)	RECOMPACTED SUBGRADE (INCHES)
VEHICULAR PARKING	MATCH EXISTING	MATCH EXISTING	12"

3 | ASPHALT PAVEMENT SECTION N.T.S.

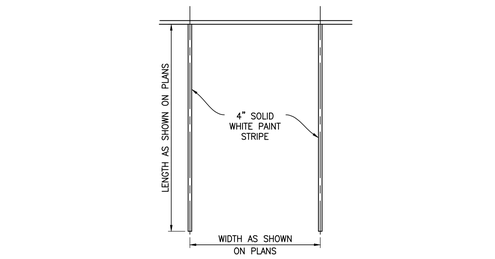


ELEVATION

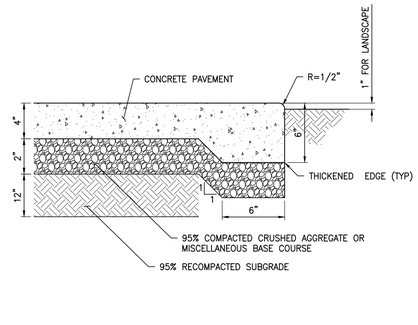
11 | FIRE HYDRANT ASSEMBLY N.T.S.



8 | 4' LONG REINFORCED PRECAST WHEEL STOP N.T.S.



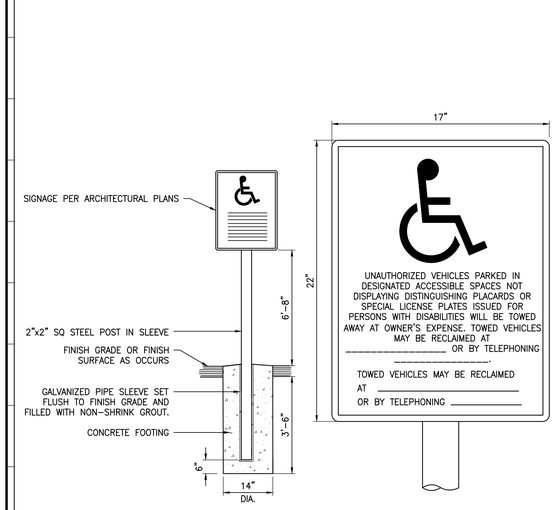
5 | STANDARD 90° PARKING STALL N.T.S.



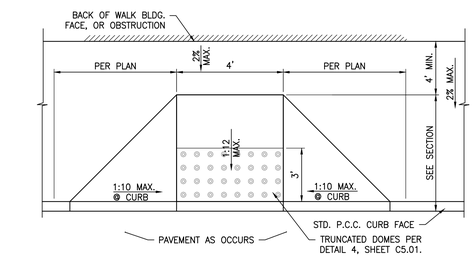
NOTES:

1. ALL TREAD SURFACES SHALL BE SLIP–RESISTANT.
2. REFER TO ARCHITECTURAL DRAWINGS FOR COLOR, PATTERN, TEXTURE, AND FINISH.
3. SEE PLAN FOR LOCATION OF CONTROL JOINTS.

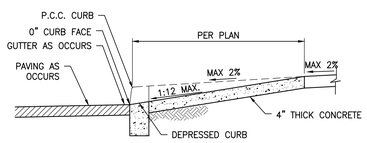
2 | CONCRETE WALK SECTION N.T.S.



10 | ACCESSIBLE PARKING IDENTIFICATION AT ENTRANCE DRIVEWAY N.T.S.



PLAN VIEW

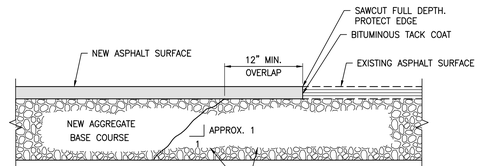


SECTION

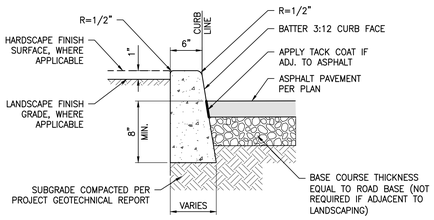
NOTES:

1. CONCRETE SHALL BE 2500 PSI.
2. RAMP SURFACE SHALL BE SLIP–RESISTANT AND SHALL BE OF CONTRASTING FINISH FROM THAT OF THE ADJACENT SIDEWALK.
3. DIMENSIONS MAY VARY DEPENDING ON CROSS SLOPE CONDITIONS.

7 | CURB RAMP N.T.S.



4 | ASPHALT PAVEMENT JOIN DETAIL N.T.S.



NOTES:

1. ISOLATION JOINTS SHALL BE PLACED ONLY AS SPECIFIED.
2. CONTROL JOINTS CONSISTING OF 1" DEEP SCORES SHALL BE PLACED AT 10' INTERVALS O.C.
3. WHERE A WALK IS ADJACENT TO THE CURB, THE JOINTS SHALL ALIGN WITH JOINTS IN THE WALK.

1 | CONCRETE CURB N.T.S.

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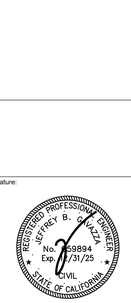

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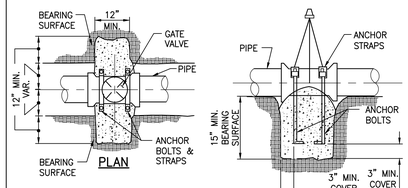
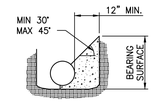
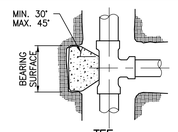


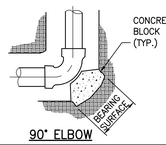
VALVE ANCHORS



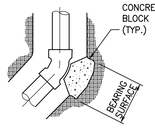
TYPICAL SECTION OF THRUST BLOCK



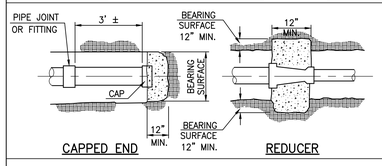
TEE



90° ELBOW



45° ELBOW

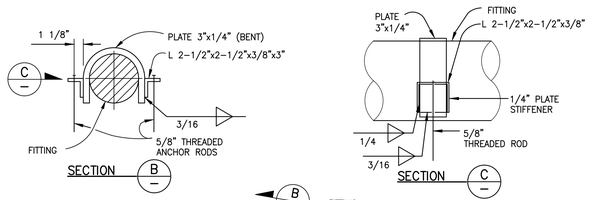


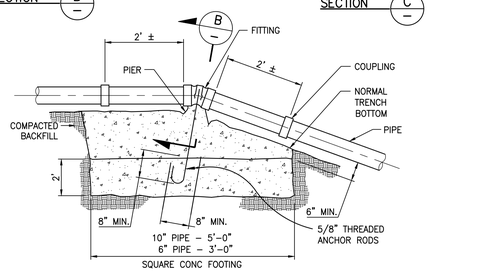
CAPPED END REDUCER

THRUST BLOCK BEARING AREAS – S.F.

MAIN SIZE	TEE *	BEND			
		90°	45°	22.5°	11.25°
4"	4	4	3	2	
6"	4	4	4	3	2
8"	5	7	4	3	2
10"	9	12	6	4	3
12"	12	16	9	6	3

*INCLUDES TEES, PLUGS, CAPS, HYDRANTS & VALVES.



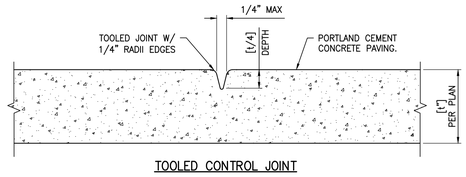


VERTICAL BEND

GENERAL NOTES:

1. ALL THRUST/ANCHOR BLOCKS SHALL BEAR AGAINST UNDISTURBED SOIL.
2. CONCRETE SHALL BE 450-C-2000 WITH 4" MAXIMUM SLUMP PER SPPWC 201-1.1.2.
3. ALL ANCHOR RODS AND ANCHOR BOLTS SHALL BE MINIMUM 5/8" DIA. & ANCHOR STRAPS SHALL BE 3"X1/4".
4. THRUST BLOCK DESIGN IS BASED ON A WATER PRESSURE OF 150 P.S.I., AND A MINIMUM ALLOWABLE SOIL BEARING VALUE OF 2000 P.S.F. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING SOIL BEARING VALUES AND THE POSITION AND SIZE OF BEARING AREAS, BASED UPON N.F.P.A. 24.
5. THE RATIO OF WIDTH TO HEIGHT OF THRUST BLOCKS SHALL NOT EXCEED 1.5 TO 1.

6 | THRUST AND ANCHOR BLOCK DETAILS N.T.S.

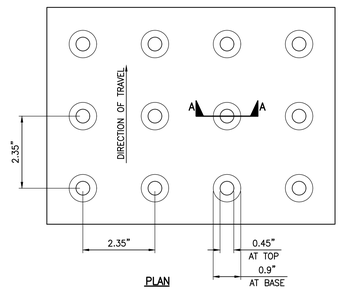


TOOLED CONTROL JOINT

NOTES:

1. CONTROL JOINTS SHALL BE CONSTRUCTED PER S.S.P.W.C.
2. CONSTRUCT CONTROL JOINTS WITHIN 24 HOURS OF POUR.
3. SEE PLAN FOR LOCATION OF CONTROL JOINTS.

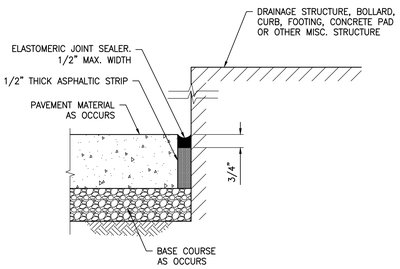
5 | CONTROL JOINT FOR CONCRETE PAVEMENT N.T.S.



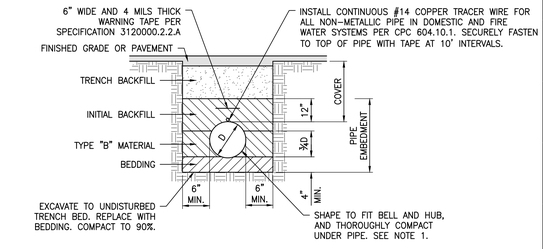
NOTE:

1. DETECTABLE WARNING SURFACES SHALL COMPLY WITH CBC CH 11B-705.1.1.3.1. THE MATERIAL USED TO COMPLY WITH THIS SECTION SHALL BE AN INTEGRAL PART OF THE DETECTABLE WARNING SURFACE.
2. DETECTABLE WARNINGS SURFACES SHALL
   A. BE YELLOW AND APPROXIMATE 33538 OF SAE AMS-STD-595A IN ACCORDANCE WITH CBC CH11B-705.1.1.3.1.
   B. PROVIDE A 70 PERCENT MINIMUM VISUAL CONTRAST WITH ADJACENT WALKING SURFACES IN ACCORDANCE WITH CBC CH11B-705.1.1.3.2.

4 | TRUNCATED DOMES N.T.S.



3 | ISOLATION JOINT AT STRUCTURE N.T.S.

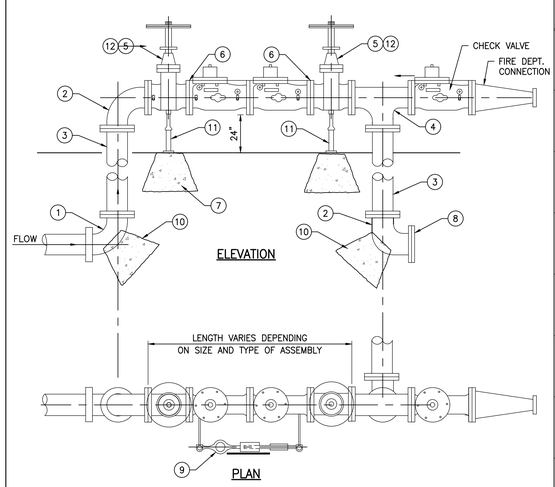


BEDDING	CLEAN COARSE SAND.
CLEAN COARSE SAND	SHALL CONFORM TO THE REQUIREMENTS OF SAND FOR PORTLAND CEMENT CONCRETE AS SPECIFIED IN SECTION 200-1.5.5 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 2021 EDITION.
INITIAL BACKFILL	NATIVE MATERIAL – MAXIMUM SIZE NOT TO EXCEED 1 1/2".
TRENCH BACKFILL	NATIVE MATERIAL – 90% COMPACTION MIN. (95% COMPACTION IN UPPER 3.0' OF PAVED AREAS). UP TO CLASS IV SOILS, TYPE ML,CL. FINE GRAINED, LL<50, MEDIUM TO NO PLASTICITY. NOTE, IF CLASS IV SOIL, TYPE MH OR ALL CLASS V SOILS THEN USE CLEAN COARSE SAND.
"TYPE" B MATERIAL	SHALL BE ONE OF THE FOLLOWING: 1. NATIVE FREE DRAINING MATERIAL OR CRUSHED ROCK CONFORMING TO SUBSECTION 200-1.2 AND TABLE 200-1.2.1(A) OF THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION". FOR PIPES UP TO AND INCLUDING 15", MAXIMUM ROCK GRADATION SHALL BE ¾". FOR PIPES OVER 15", MAXIMUM ROCK GRADATION SHALL BE 1½". 2. CLEAN COARSE SAND.

NOTES:

1. EXCAVATE FOR BELLS OR HUBS SO FULL LOAD IS CARRIED BY PIPE BARRELS.
2. TYPE "B" MATERIAL SHALL BE PLACED IN A MANNER SUCH AS SLICING SHOVEL-SPADING, OR SHOVEL RODDING TO INSURE COMPLETE FILLING OF THE "HAUNCH AREAS" BELOW THE PIPE. (JETTING OF TYPE "B" MATERIAL IS NOT AUTHORIZED UNLESS PREVIOUSLY APPROVED).
3. TRENCH BACKFILL SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 217-2 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 2021 EDITION. WATER DENSIFIED BACKFILL SHALL NOT BE USED.

2 | FLEXIBLE PIPE BEDDING DETAIL N.T.S.



MATERIAL

1. 90° D.I. ELL FLG x PE
2. 90° D.I. ELL FLG x FLG
3. D.I. (CL) SPOOL FLG x FLG
4. D.I. (CL) TEE AND FIRE DEPT. CONNECTION
5. APPROVED SHUT-OFF VALVES.
6. APPROVED DOUBLE CHECK VALVES (SEE PLAN FOR SIZE)
7. CONCRETE FOOTING
8. TEMPORARY D.I. BLIND FLANGE, AS REQUIRED.
9. FACTORY INSTALLED BY-PASS METER ASSEMBLY.
10. THRUST BLOCK
11. GALVANIZED ADJUSTABLE PIPE SUPPORT, PER MANUFACTURER'S RECOMMENDATION.
12. TAMPER SWITCHES – TO FACP, WHEN REQUIRED.

NOTES:

1. INSTALLATION SHALL COMPLY WITH THE LATEST PLUMBING CODES AND APPLICABLE LOCAL AGENCY REQUIREMENTS.
2. THRUST BLOCKS SHALL BE SIZED PER DETAIL SHOWN HEREON.
3. THE OUTLET FDC CONFIGURATION IS CONCEPTUAL AND SHOWN FOR COORDINATION PURPOSES ONLY. THE CONTRACTOR SHALL COORDINATE THE FDC OUTLET CONFIGURATION WITH THE FIRE SPRINKLER DRAWINGS.

1 | DOUBLE DETECTOR CHECK ASSEMBLY W/FIRE DEPARTMENT CONNECTION N.T.S.

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Issued For:

No.	Description:	Date:
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	100% DESIGN DEVELOPMENT	22 NOV 2024
	60% CONSTRUCTION DOCUMENT	07 MAR 2025
	ISSUED FOR PERMIT	20 MAR 2025
	90% CONSTRUCTION DOCUMENT	08 AUG 2025
	ISSUED FOR PERMIT REVISION 1	08 AUG 2025
	ISSUED FOR BID	29 SEP 2025

ISSUED FOR BID 13 OCT 2025

Seal & Signature:

REGISTERED PROFESSIONAL ENGINEER — JEFFREY B. GARZA — No. 59894 Exp. 3/31/25 — CIVIL — STATE OF CALIFORNIA

Sheet Name:

CIVIL DETAILS

Project No.:	Sheet No.:
2400064	C5.01
Drawn By: DM	
Checked By: KS	
Scale: AS NOTED	

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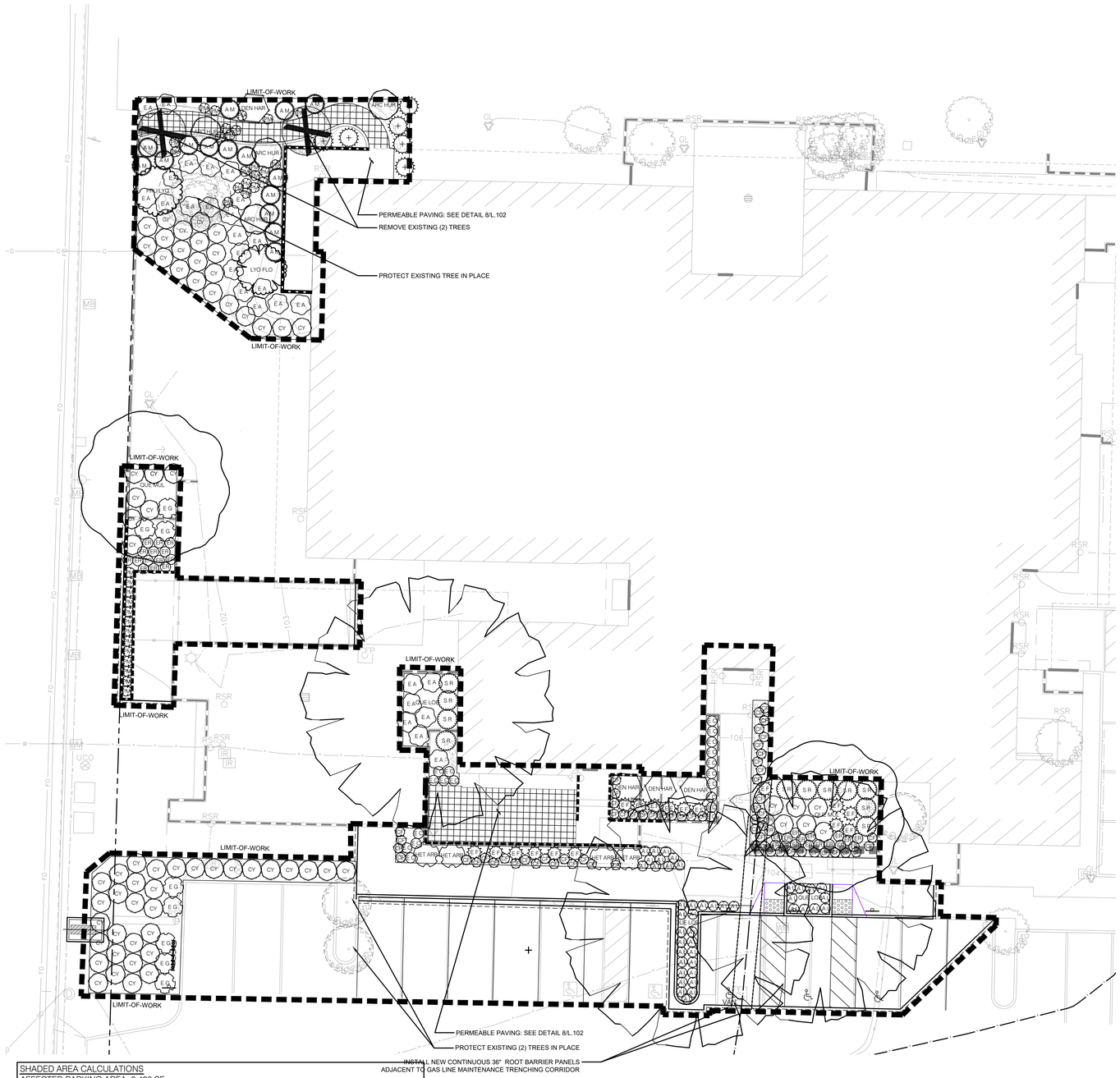

PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL NAME	COMMON NAME	SIZE	QTY	WATER USE	MATURE HEIGHT	MATURE WIDTH
TREES								
ARC HUR	ARC HUR	Arctostaphylos manzanita 'Dr. Hurd'	Dr. Hurd Common Manzanita	24"	4	Very low - Low	10 - 15ft. ht.	6 - 10ft. w.
LYO FLO	LYO FLO	Lyonothamnus floribundus asplenifolius	Fernleaf Catalina Ironwood	36"	1	Low	25 - 40ft. ht.	15 - 25ft. w.
PRU LYO	PRU LYO	Prunus ilicifolia lyonii	Catalina Cherry	24"	1	Very low - Low	15 - 25ft. ht.	15 - 25ft. w.
	QUE MUL	Quercus agrifolia	Coast Live Oak Multi-Trunk	36"	3	Very low - Low	40 - 65ft. ht.	25 - 40ft. w.
	QUE LOB	Quercus lobata	Valley Oak	24"	3	Low - Medium	> 65ft. ht.	40 - 65ft. w.
SHRUBS								
A I	A I	Achillea millefolium	Common Yarrow	1 gal.	43	Low	6 - 18in. ht.	1 - 3ft. w.
A M	A M	Arctostaphylos hookeri 'Monterey Carpet'	Monterey Carpet Hooker's Manzanita	1 gal.	15	Low	6 - 18in. ht.	
CY	CY	Ceanothus griseus horizontalis 'Yankee Point'	Yankee Point Carmel Creeper	1 gal.	68	Low	18 - 36in. ht.	6 - 10ft. w.
CF	CF	Corethrogyne filaginifolia 'Silver Carpet'	Califonia Aster	1 gal.	67	Medium	6 - 18in. ht.	1 - 6ft. w.
DEN HAR	DEN HAR	Dendromecon harfordii	Island Bush Poppy	5 gal.	4	Very low - Low	6 - ft. ht.	6 - 10ft. w.
E C	E C	Elymus condensatus 'Canyon Prince'	Canyon Prince Wild Rye	5 gal.	19	Low	18 - 36in. ht.	1 - 3ft. w.
E F	E F	Epilobium canum 'Catalina'	Catalina California Fuchsia	1 gal.	17	Very low - Medium	18 - 6ft. ht.	
ER	ER	Erigeron glaucus `Wayne Roderick`	Wayne Roderick Seaside Daisy	1 gal.	32	Low	6 - 18in. ht.	1 - 3ft. w.
E A	E A	Eriogonum arborescens	Santa Cruz Island Buckwheat	5 gal.	28	Very low - Low	3 - 6ft. ht.	3 - 6ft. w.
E G	E G	Eriogonum giganteum	St. Catherine's Lace	5 gal.	8	Low	3 - 6ft. ht.	6 - 10ft. w.
HET ARB	HET ARB	Heteromeles arbutifolia	Toyon	15 gal.	4	Low	10 - ft. ht.	6 - 10ft. w.
PM	PM	Penstemon heterophyllus 'Margarita BOP'	Margarita BOP Penstemon	1 gal.	39	Low - Medium	6 - ft. ht.	1 - 3ft. w.
RIB VIB	RIB VIB	Ribes viburnifolium	Evergreen Currant	1 gal.	6	Low	18 - 36in. ht.	3 - 6ft. w.
S R	S R	Salvia leucophylla 'Point Sal Spreader'	Point Sal Spreader Purple Sage	5 gal.	11	Low	3 - 6ft. ht.	3 - 6ft. w.

SHADED AREA CALCULATIONS
AFFECTED PARKING AREA: 2,423 SF
AREA OF AFFECTED PARKING TO BE SHADED WITHIN 15 YEARS: 1,252 SF (51%)
AFFECTED HARDSCAPE AREA (EXCEPT WALKWAYS): 370 SF
AREA OF AFFECTED HARDSCAPE TO BE SHADED WITHIN 15 YEARS: 127 SF (34%)
AFFECTED LANDSCAPE AREA: 2,308 SF
AREA OF AFFECTED LANDSCAPE TO BE SHADED WITHIN 15 YEARS: 1464 SF (63%)

TREE PRESERVATION NOTES:
1. The preservation of existing trees within the limit of work is critical to the success of the project.
2. Contractor shall not store equipment, fuel, materials, park cars, locate temporary facilities or trash not store equipment, fuel, materials, park cars, locate temporary facilities or trash temporary facilities or trash containers, stockpile excavation, wash-out concrete trucks, allow spillage or dumping of deleterious substances or allow laborers to congregate within drip lines of existing trees.
3. Contractor shall limit equipment or vehicular access within drip lines of trees to foot traffic, carts or bobcats to avoid soil compaction.
4. Contractor shall excavate within tree drip lines by hand.
5. Roots 1" and larger shall not be cut or severed excavate within tree drip lines by hand.
6. Roots 1" and larger shall not be cut or severed without prior approval of the owner's representative.
7. Should preserved roots interfere with work progress the contractor shall seek direction prior to proceeding.
8. No excavation for any trenches for any utility allowed under driplines of existing trees.
9. Trenches for all pipes, conduit and wiring shall be placed outside tree drip-lines. Where not possible, or shown otherwise on plans, Contractor shall use air-spade for excavation, and backfill trenches, under the direction of a certified arborist supplied by landscape contractor.
10. When air-spade excavating trenches within tree drip lines the contractor shall maintain, in-place, all tree roots and tunnel underneath them to the required depth of the trench. Exposed tree roots bridging trenches shall be wrapped in burlap if exposed for more than 24hrs. Burlap shall be kept moist.
11. Pipes, conduit and wiring shall be run beneath or between roots. Should root elevation interfere with required locations or elevations contractor shall submit a written RFI for direction.
12. Backfill and compact trenches with specified bedding material hand tamping to achieve required compaction without disturbing roots.
13. Excess soils from trenching shall not be stockpiled within tree drip lines and shall be legally disposed of off-site. If unavoidable, and as approved, excess plywood board-roading may stay in place for no more than seven (7) days.
14. Contractor shall install and maintain tree protection fencing and trunk protection planking throughout the course of construction. Planking and tree protection fencing shall be removed after substantial completion.
15. To facilitate the progress of work the contractor may temporarily relocate tree protection fencing for up to 24 hours as approved by the owner's rep.
16. Any root severed by construction activity shall be pruned flush with soil.
17. Backfill exposed roots with imported topsoil as soon as possible. If root needs to be uncovered for more than twenty four (24) hours, cover with hardwood mulch.
18. Contractor shall limit soil cut and fills within tree drip-lines to no more than 1" above or below existing grade. If plans indicate otherwise submit written RFI for direction.
19. No soil or mulch is permitted on the root flare of any tree.
20. Existing and relocated trees to be preserved shall be watered once a week during periods of hot, dry weather or as directed.
21. Tree canopies shall be sprayed with water monthly to avoid dust accumulation on leaves.
22. Contractor shall assume responsibility for the boxing, storage, watering and maintenance of relocated trees during construction and prior to re-planting.
23. Contractor shall confirm location and re-location of all existing and relocated trees to be preserved with owner's representative prior to commencing work.

SOIL PREPARATION AND IMPORTED PLANTING SOIL REQUIREMENTS (ON-GRADE APPLICATIONS): :
1. Contractor to remove all debris, clear, grub & rake all planting areas prior to planting. Contractor to arrange for a soil test in a min. of 2 locations by an authorized soils lab prior to any new landscape planting to identify soil characteristics and recommend fertilizers, amendments and installation procedures. soil samples results will be submitted to the l.a. for review. Contractor shall hand cultivate areas with existing plant material.
2. Soil amendment: (for bid purposes only. actual spec. to be determined by soil test) after setting finish grade amend soil as follows:
   6 cubic yards organic amendment per 1000 sq. ft.
3. Broadcast soil amendment uniformly over planting area and incorporate into the top 6 inches of soil
4. Imported planting soil for all pits for all trees and shrubs: soil test results to be applied if different from general imported planting soil specifications. Thoroughly pre-mix imported planting soil per cubic yard as follows per specifications 32 91 00
5. Create temporary watering basin around each planting pit. Apply fertilizer tablets, agriform or equal per manufacturer's written specifications.

PLANTING NOTES
1. Contractor shall install plant material in accordance with these contract documents including but not limited to plans, details, drawings, notes and specifications.
2. Contractor is responsible for complying with applicable codes and requirements for both equipment and installation.
3. Contractor shall obtain all necessary permits required to perform the work indicated herein before beginning work.
4. Written specifications and notes supersede drawings. If conditions in the field are in conflict with drawings, notify Owner or LA prior to proceeding.
5. Contractor shall provide one photograph of each tree variety and size, called out on drawings, and send to Owner's authorized representative or LA for approval prior to purchase, delivery to site or installation. Contractor is responsible for timely delivery of such photos, allowing adequate time for Owner's rejection of material and resubmittal without compromise to overall Landscape installation schedule.
6. At Landscape Architect's discretion, Landscape Architect may tag all site trees.
7. Trees shall be preliminarily tagged by Contractor. Contractor shall observe each tree in order to ascertain that trees are healthy, free of pests, diseases, root girdling, scars, and that trees have good branch attachment. Landscape Architect may reject any trees brought to the site which are not in good form and health.
8. Trees and shrubs shall come from reputable tree farms and nurseries. Nurseries shall be members of the California Association Of Nurseries And Garden Centers (CANGC), and shall have conducted business as a tree farm in current location and under current Ownership for a minimum of three years. Contractor required to submit proof that nursery meets the above qualifications.
9. Landscape Architect reserves the right to reject all plant material deemed to be unsuitable for Project for any reason once it is onsite. Root ball condition of plants furnished by the Contractor in containers will be determined by removal of earth from the roots of not less than 2 plants nor more than 2 percent of the total number of plants of each species or variety, except when container-grown plants are from several sources, the roots of not less than 2 plants of each species or variety from each source will be inspected by the Landscape Architect. In case the sample plants inspected are found to be defective, including but not limited to, root bound or underdeveloped root ball, the Landscape Architect reserves the right to reject the entire lot or lots of plants represented by the defective samples. Plants rendered unsuitable for planting because of this inspection will be considered as samples and will not be paid for.
10. All plants shall arrive on site with nursery tags. Those without nursery tags are subject to rejection.
11. Final locations of trees and shrubs shall be approved by the Owner or L.A. prior to planting. Completed planting and irrigation shall be inspected by the Owner's authorized agent or observed by Landscape Architect prior to final acceptance.
12. Contractor shall guarantee all new plants as follows:
    trees (24" box and larger) - 1 year
    shrubs and vines (1 gal. and larger) - 1 year
    ground cover - 6 months
13. Plant material which in the judgment of the Owner or LA is not healthy and vigorous at the end of the maintenance period and/or guarantee period shall be replaced by Contractor at no cost to Owner.
14. Contractor shall provide a maintenance period of not less than 90 days commencing at the date of final acceptance. Such maintenance shall include all care pertaining to all work installed as part of these contract documents. Contractor shall submit a written log of dates, staff, and actions performed during such maintenance period.
15. quality and size of all plants shall conform to the california standard grading code of nursery stock and shall be number one grade. There shall be no insects, eggs, or larvae.
16. Contractor shall submit supplier receipts to Owner's authorized agent for all materials used onsite with billing.
17. Contractor shall confirm with growers that plants purchased for this Project are properly acclimatized to Projects conditions and seasons of planting.
18. Contractor shall store plant material in shade and protect from the sun. maintain plants in moist condition prior to planting.
19. Contractor shall plant all plants so that after full settling, the crown of the plant is even with or 1" above the finish grade. After planting, smooth soil around the plant, compact 12" above the finish grade. After planting, smooth soil around the plant, compact by foot and water with a fine spray.
20. Contractor shall water thoroughly, immediately after planting. Water settle and hand tamp all backfilled areas thoroughly.
21. Contractor shall water settle and hand compact all soil in built-up planters. Such compaction shall occur over a 3-day period, one week minimum prior to planting, in order to maximize settlement. Contractor shall install additional soil as required to bring top of finish grade to 2" below top of wall, or to top of waterproofing membrane where waterproofing membrane is higher than 3" below top of wall.
22. All drainage and tree support gravel to be "3/4" diameter washed gravel.
23. Contractor shall top dress all planting areas with mulch per specifications section 32 91 00.
24. Contractor shall remove all nursery stakes and tags from all plant materials after planting.
25. Contractor shall double stake all trees 15 gallons and larger immediately after planting per drawings. Do not penetrate water proofing membrane. Do not penetrate root ball.
26. Mulch shall not be placed closer than 2" away from the crown of any ground cover, shrub or tree.

I have complied with the criteria of the ordinance and applied them for the efficient use of water in the landscape design plan.
SIGNED: S Reed DATED: AUGUST 08, 2025

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ISSUED FOR BID 13 OCT 2025

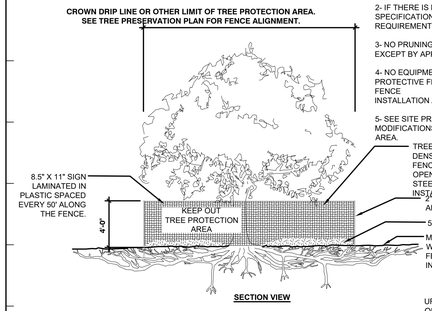
Key Plan:

Seal & Signature:
REGISTERED LANDSCAPE ARCHITECT
STEPHANIE REED
S Reed
Expires 9/30/25
RLA 6086
STATE OF CALIFORNIA

Sheet Name:
Landscape Plan

Project No.: 2400064
Drawn By: PB
Checked By: SR
Scale: AS NOTED

Sheet No.: L.101



SECTION VIEW

NOTES:
1- SEE SPECIFICATIONS FOR ADDITIONAL TREE PROTECTION REQUIREMENTS.

2- IF THERE IS NO EXISTING IRRIGATION, SEE SPECIFICATIONS FOR WATERING REQUIREMENTS.

3- NO PRUNING SHALL BE PERFORMED EXCEPT BY APPROVED ARBORIST.

4- NO EQUIPMENT SHALL OPERATE INSIDE THE PROTECTIVE FENCING INCLUDING DURING FENCE INSTALLATION AND REMOVAL.

5- SEE SITE PREPARATION PLAN FOR ANY MODIFICATIONS WITH THE TREE PROTECTION AREA.

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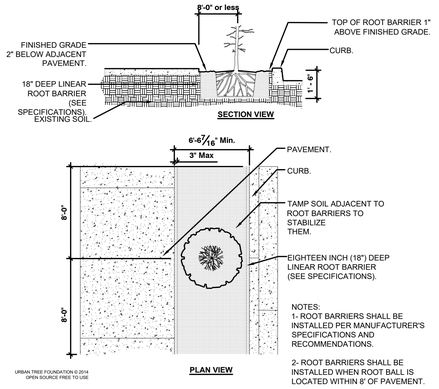
1 TREE PROTECTION

3/16" = 1'-0" P-IN-GOL-48



NOTES:
1- ROOT BARRIERS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

2- ROOT BARRIERS SHALL BE INSTALLED WHEN ROOT BALL IS LOCATED WITHIN 8' OF PAVEMENT.

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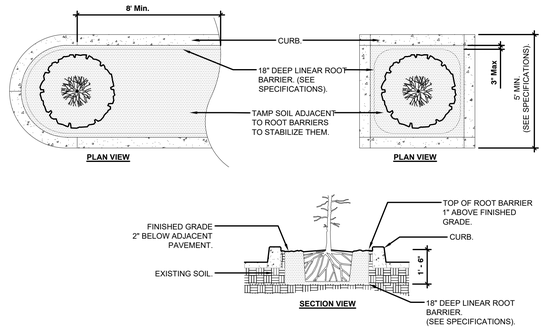
2 ROOT BARRIERS

3/16" = 1'-0" P-IN-GOL-49



NOTES:
1- ROOT BARRIERS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

2- ROOT BARRIERS SHALL BE INSTALLED WHEN ROOT BALL IS LOCATED WITHIN 8' OF PAVEMENT.

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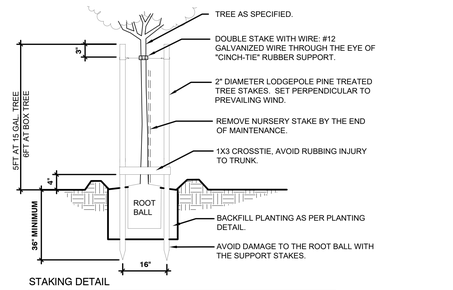
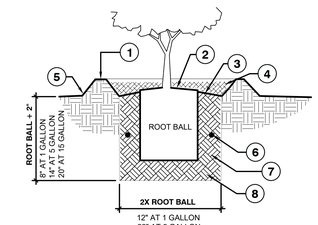
3 ROOT BARRIERS - PARKING LOT ISLANDS

3/8" = 1'-0" P-IN-GOL-50



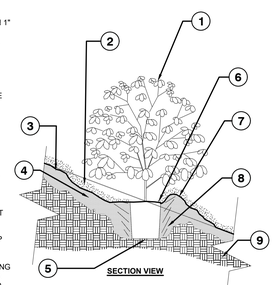
STAKING DETAIL



1. WATER WELL: 4" HIGH AT SHRUB, NO WATER WELL AT LAWN AREA.
2. SET ROOT BALL CROWN 1" HIGHER THAN SURROUNDING FINISHED GRADE.
3. SLOPE FINISHED GRADE AT BACKFILL AWAY FROM ROOT BALL.
4. MULCH TO 2" DEPTH AT WATER WELL.
5. FINISHED GRADE.
6. PLANT TABLETS AS NOTED OR SPECIFIED.
7. BACKFILL MIX, SEE NOTES AND SPECIFICAITONS.
8. NATIVE SOIL MIX FIRMLY COMPACTED.

4 SHRUB PLANTING

1" = 1'-0" P-IN-GOL-02



1. SHRUB
2. 4" LAYER OF MULCH.NO MORE THAN 1" OF MULCH ON TOP OF ROOT BALL. (SEE SPECIFICATIONS FOR MULCH).
3. ORIGINAL SLOPE SHOULD PASS THROUGH THE POINT WHERE THE TRUNK MEETS SUBSTRATE/SOIL.
4. MODIFIED SOIL. DEPTH VARIES. (SEE SPECIFICATIONS FOR SOIL MODIFICATION).
5. BOTTOM OF ROOT BALL RESTS ON EXISTING OR RECOMPACTED SOIL.
6. ROOT BALL
7. 4" HIGH X 8" WIDE ROUND - TOPPED SOIL BERM ABOVE ROOT BALL SURFACE SHALL BE CENTERED ON THE DOWNHILL SIDE OF THE ROOT BALL FOR 240°. BERM HALL BEGIN AT ROOT BALL PERIPHERY.
8. PRIOR TO MULCHING, LIGHTLY TAMP SOIL AROUND THE ROOT BALL IN 6" LIFTS TO BRACE SHRUB. DO NOT OVER COMPACT. WHEN THE PLANTING HOLE HAS BEEN BACKFILLED, POUR WATER AROUND THE ROOT BALL TO SETTLE THE SOIL.
9. EXISTING SOIL

NOTES:
1- SHRUBS SHALL BE OF QUALITY AS PRESCRIBED IN THE ROOT OBSERVATIONS DETAIL AND SPECIFICATION.
2- SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS RELATED TO THIS DETAIL

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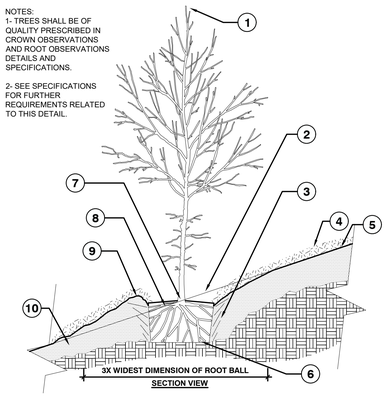
OPEN SOURCE FREE TO USE

5 SHRUB ON SLOPE 5% TO 50% - MODIFIED SOIL

1/2" = 1'-0" P-IN-GOL-51



NOTES:
1- TREES SHALL BE OF QUALITY PRESCRIBED IN CROWN OBSERVATIONS AND ROOT OBSERVATIONS DETAILS AND SPECIFICATIONS.

2- SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS RELATED TO THIS DETAIL.

1. CENTRAL LEADER. (SEE CROWN OBSERVATIONS DETAIL).
2. ORIGINAL SLOPE SHOULD PASS THROUGH THE POINT WHERE THE TRUNK BASE MEETS SUBSTRATE/SOIL.
3. PRIOR TO MULCHING, LIGHTLY TAMP SOIL AROUND THE ROOT BALL IN 6" LIFTS TO BRACE TREE. DO NOT OVER COMPACT. WHEN THE PLANTING HOLE HAS BEEN BACKFILLED, POUR WATER AROUND THE ROOT BALL TO SETTLE THE SOIL.
4. 4" LAYER OF MULCH. NO MORE THAN 1" OF MULCH ON TOP OF ROOT BALL. (SEE SPECIFICATIONS FOR MULCH).
5. ORIGINAL GRADE.
6. BOTTOM OF ROOT BALL RESTS ON EXISTING OR RECOMPACTED SOIL.
7. TRUNK CALIPER SHALL MEET ANSI Z60 CURRENT EDITION FOR ROOT BALL SIZE.
8. ROOT BALL MODIFIED AS REQUIRED.
9. ROUND-TOPPED SOIL BERM 4" HIGH X 8" WIDE ABOVE ROOT BALL SURFACE SHALL BE CENTERED ON THE DOWNHILL SIDE OF THE ROOT BALL FOR 240°. BERM SHALL BEGIN AT ROOT BALL PERIPHERY.
10. MODIFIED SOIL. DEPTH VARIES. (SEE SOIL PREPARATION PLAN).

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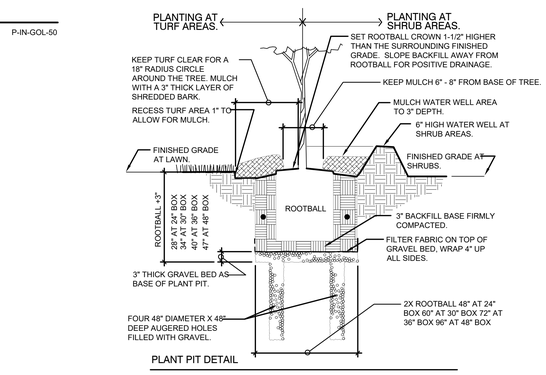
6 TREE ON SLOPE - UNMODIFIED SOIL SLOPE 5% (20:1) TO 50%

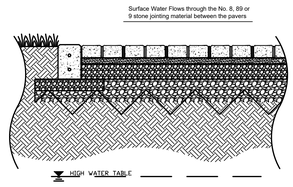
1/2" = 1'-0" P-IN-GOL-52



PLANT PIT DETAIL

7 SPECIMEN TREE PLANTING

1" = 1'-0" P-IN-GOL-53



8 PERMEABLE PAVERS - ROBIDECK

3/4" = 1'-0" P-IN-GOL-54

GOLETA LIBRARY

CITY OF GOLETA

500 N Fairview Ave
Goleta, CA 93117

Designer:
JM|A+D
516 N Sepulveda Blvd,
Manhattan Beach, CA 90266
(310) [redacted]
www.[redacted]o.com

Consultants:
kpff

Consultants:
UPLA STUDIO

Consultants:
INTERFACE ENGINEERING

Consultants:
JENSEN HUGHES

Issued For:

No.	Description:	Date:
1	100% SCHEMATIC DESIGN	11 OCT 2024
2	100% DESIGN DEVELOPMENT	22 OCT 2024
3	90% CONSTRUCTION DOCUMENT	08 AUG 2025
4	ISSUED FOR BID	29 SEP 2025

ISSUED FOR BID 13 OCT 2025

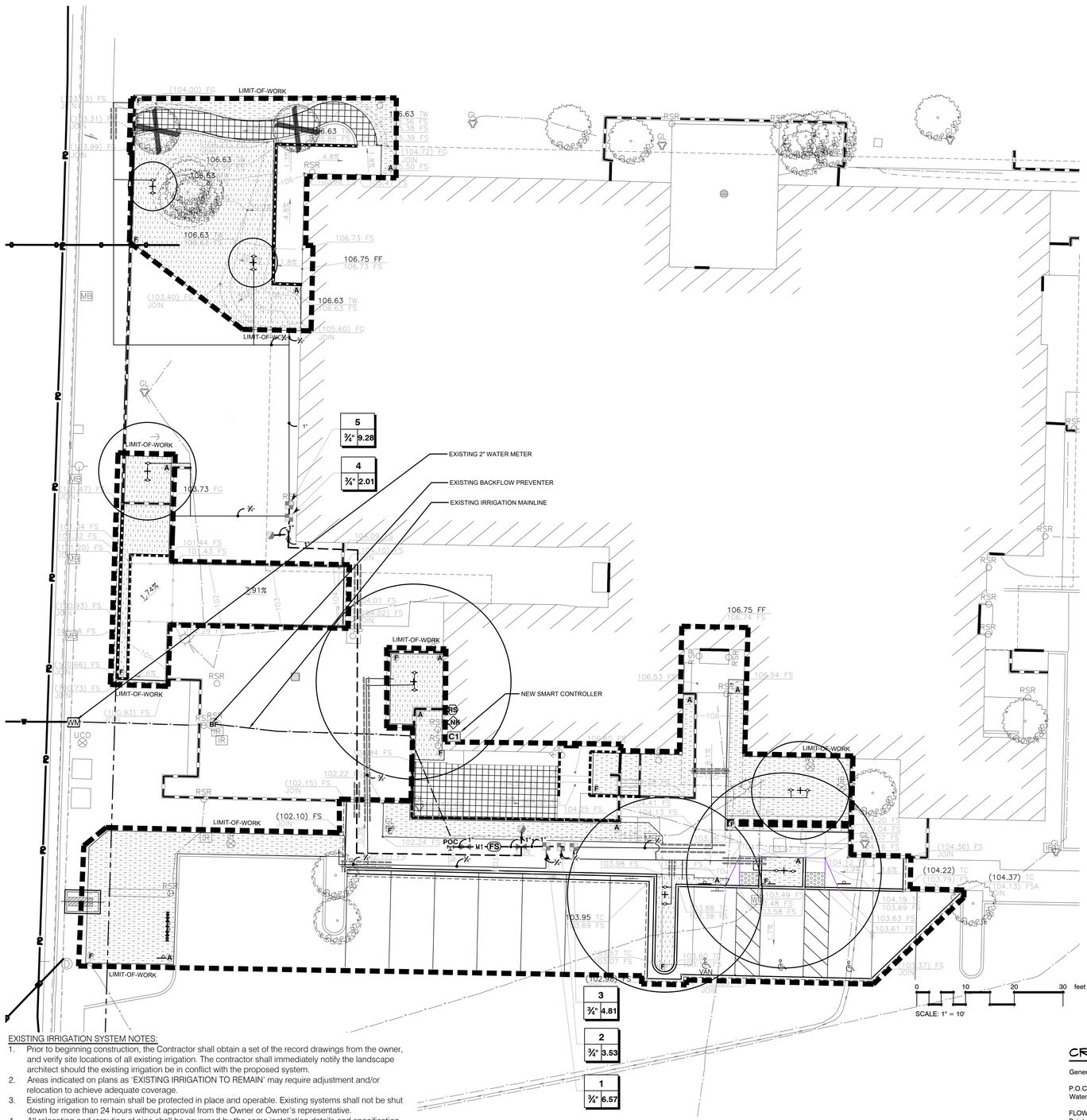
Key Plan:

Seal & Signature:

REGISTERED LANDSCAPE ARCHITECT
STEPHANIE REED
Expires 9/30/25
STATE OF CALIFORNIA

Sheet Name:
Landscape Details

Project No.:	Sheet No.:
2400064	L.102
Drawn By: PB	
Checked By: SR	
Scale: AS NOTED	



IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI	DETAIL
1401 1402 1404	Rain Bird RWS-B-C 1400 Series Root Watering System with 4.0in. diameter x 36.0in. long with locking grate, semi-rigid mesh tube, and check valve. Rain Bird bubbler option as indicated: 1401 0.25 GPM, 1402 0.5 GPM, 1404 1.0 GPM, 1408 2.0 GPM.	14	20	

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	DETAIL
	Rain Bird XACZ-075-PRF 3/4" Low Flow Drip Control Kit, 3/4in. Low Flow Anti-Siphon Valve, 3/4in. pressure regulating RBY Filter, and 30psi pressure regulator, for above grade installation. 0.2 GPM-5 GPM.	5	7/202
F	Rain Bird MDCFCAP Dripline Flush Valve cap in compression fitting coupler.	11	
A	Rain Bird ARV050 1/2" 1/2in. Air Relief Valve, made of quality rust-proof materials, with a 6in. drip valve box (SEB 7XB emitter box). Use with installation below soil. The valve will allow air to escape the pipeline, thus preventing water hammer or blockage.	11	
	Area to Receive Dripline Rain Bird XFS-04-12 XFS Sub-Surface Pressure Compensating Dripline w/Copper Shield Technology. 0.4 GPH emitters at 12" O.C. Laterals spaced at 12" apart, with emitters offset for triangular pattern. UV Resistant. Specify XF insert fittings.	3,314 lf	

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	DETAIL
	Rain Bird 3-RC 3/4" 3/4in. Brass Quick-Coupling Valve, with Corrosion-Resistant Stainless Steel Spring, Thermoplastic Rubber Cover, and 1-Piece Body.	2	
	Nibco T-580-S6-R-66-LL Stainless steel ball valve shut off valve	3	
M1	Rain Bird PGA-PRS-D Angle 1" 1in., 1-1/2in., 2in. Electric Master Valve, Angle. With Pressure Regulator Module.	1	
BF	EXISTING 3/4" Reduced Pressure Backflow Preventer	1	
C1	Rain Bird ESP4ME3 with (3) ESP-SM6 22 Station, Hybrid Modular Outdoor Controller. For Residential or Light Commercial Use. LNK WiFi Module and Flow Sensor Ready.	1	
LNK	Rain Bird LNK2WIFI Upgrades controllers (ESP-M, ESP-RZXe, ST8) to Have Weather Data for ET-Based Adjustments (WaterSense Approved) & WiFi Capabilities -	1	
RS	Rain Bird WR2-RC Wireless Rain Sensor Combo, includes 1 receiver and 1 rain sensor transmitter.	1	
FS	Rain Bird FG100 1in. FG100 Flow Sensors w/ NPT Union Fittings. Operating Range 11.4 LPM- 94.6 LPM. Size for Flow Not According to Pipe Size. No Straight Pipe Requirements.	1	
POC	Point of Connection 2" City of Goleta	1	
	Irrigation Lateral Line: PVC Schedule 40 3/4"	424.0 lf	6/202
	Irrigation Lateral Line: PVC Schedule 40 1"	32.9 lf	6/202
	Irrigation Mainline: PVC Schedule 40	0.5 lf	6/202
	Irrigation Mainline: PVC Schedule 40 1"	150.8 lf	6/202
	Pipe Sleeve: PVC Class 200 SDR 21	97.7 lf	

Valve Callout
Valve Number
Valve Flow
Valve Size

VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM	PSI	PRECIP
1	Rain Bird XACZ-075-PRF	3/4"	Area for Dripline	6.57	41.7	0.65 in/h
2	Rain Bird XACZ-075-PRF	3/4"	Area for Dripline	3.53	21.9	0.65 in/h
3	Rain Bird XACZ-075-PRF	3/4"	Area for Dripline	4.81	28.8	0.65 in/h
4	Rain Bird XACZ-075-PRF	3/4"	Bubbler	2.01	29.7	0.65 in/h
5	Rain Bird XACZ-075-PRF	3/4"	Area for Dripline	9.28	29.9	0.64 in/h

EXISTING IRRIGATION SYSTEM NOTES:

1. Prior to beginning construction, the Contractor shall obtain a set of the record drawings from the owner, and verify site locations of all existing irrigation. The contractor shall immediately notify the landscape architect should the existing irrigation be in conflict with the proposed system.
2. Areas indicated on plans as 'EXISTING IRRIGATION TO REMAIN' may require adjustment and/or relocation to achieve adequate coverage.
3. Existing irrigation to remain shall be protected in place and operable. Existing systems shall not be shut down for more than 24 hours without approval from the Owner or Owner's representative.
4. All relocating and rerouting of pipe shall be governed by the same installation details and specification provided for the system by the manufacturer.
5. Existing irrigation and proposed relocation of existing irrigation is approximate. Contractor shall verify existing conditions in field prior to bidding and shall provide in their bid a unit price per head to relocate and adjust existing irrigation equipment.

Project Information.
1. Date: AUGUST 08, 2025
2. Project applicant: JEFFREY MILLER ARCHITECTURE AND DESIGN
3. Project address (if available, otherwise include APN and/or lot number(s)); 500 N FAIRVIEW AVE
4. Total landscape area in square feet: 3,314 SF
5. Project type: PUBLIC
6. Water supply type (e.g., potable, recycled, well, etc.) and identify the local retail water purveyor if the applicant is not served by a private well: POTABLE, GOLETA WATER DISTRICT

"I agree to comply with the requirements of the City's Water Efficient Landscaping requirements and submit a complete Landscape Documentation Package."

SIGNED: DATED: SEPTEMBER 29, 2025

IRRIGATION NOTES

1. Written specifications and notes supersede drawings. If conditions in field are in conflict with drawings, notify Owner or landscape architect prior to proceeding.
2. Contractor is responsible for providing 100% head-to-head irrigation coverage of all planting areas.
3. All valves shall be located in shrub planting areas. valve boxes shall be installed parallel or perpendicular to building walls, and pathways. verify location of all remote valve boxes with Owner or landscape architect before installation.
4. Irrigation lines installed in planter less than 24" in width shall be run down one side of the planter or the other, not the middle.
5. Contractor to ensure that every remote control valve and hose bibb indicated shall be served by pressure supply mainline. The indicated mainline in the plan shall serve as a guide as to how the line should run directionally.
6. Pipes shall be located in planting areas, except when authorized by Owner's agent prior to installation.
7. Contractor is responsible for connection of new system to existing water system and uninterrupted irrigation to existing planting during construction.
8. Contractor is to verify available mainline pressure. In the event that pressure is inadequate, report to Owner or landscape architect prior to commencing any construction.
9. Contractor is responsible for electrical hookup of controllers.
10. All mainline under paving to be installed in pvc schedule 40 sleeves, two (2) times larger than pipe size. Sleeves to be run prior to placement of paving. No hydraulic jacking under paved areas. Where sleeving is not possible, pvc schedule 80 piping may be installed, upon authorization by Owner's agent and prior to commencing any construction.
11. All control wire under paving to be installed in pvc schedule 40 sleeves, size as required. Mainline - 2" and larger shall be pvc class 315, less than 2" shall be pvc schedule 40. All fittings shall be schedule 80. Prime and solvent weld all turns with fittings.

CRITICAL ANALYSIS

Generated:	2025-08-06 14:47
P.O.C. NUMBER: 01	
Water Source Information:	City of Goleta
FLOW AVAILABLE	
Point of Connection Size:	2"
Flow Available	47.03 GPM
PRESSURE AVAILABLE	
Static Pressure at POC:	75 PSI
Pressure Available:	75 PSI
DESIGN ANALYSIS	
Maximum Station Flow:	9.28 GPM
Flow Available at POC:	47.03 GPM
Residual Flow Available:	37.75 GPM
Critical Station:	1
Design Pressure:	20 PSI
Friction Loss:	1.77 PSI
Fittings Loss:	0.18 PSI
Elevation Loss:	0 PSI
Loss through Valve:	19.7 PSI
Pressure Req. at Critical Station:	41.7 PSI
Loss for Fittings:	0.02 PSI
Loss for Main Line:	0.23 PSI
Loss for POC to Valve Elevation:	0 PSI
Loss for Backflow:	0 PSI
Loss for Master Valve:	5.16 PSI
Critical Station Pressure at POC:	47.1 PSI
Pressure Available:	75 PSI
Residual Pressure Available:	27.9 PSI

WATER EFFICIENT LANDSCAPING WORKSHEET

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

Reference Evapotranspiration (ETo) 48.1

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							
HYDROZONE 1	0.3	DRIP	0.81	0.37	831	307.47	9,169.37
HYDROZONE 2	0.3	DRIP	0.81	0.37	378	139.86	4,170.90
HYDROZONE 3	0.3	DRIP	0.81	0.37	643	237.91	7,094.95
HYDROZONE 4	0.3	DRIP	0.81	0.37	226	83.62	2,493.71
HYDROZONE 5	0.3	DRIP	0.81	0.37	1,236	457.32	13,638.19
				Totals	3,314	1,226.18	36,567.12
Special Landscape Areas							
				1			
				1			
				1			
				Totals	(C)	(D)	
						ETWU Total	36,567.12
						Maximum Allowed Water Allowance (MAWA)[e]	44,473.54

[a] *Hydrozone #/Planting Description*
E.g.,
1.) front lawn
2.) low water use plantings
3.) medium water use planting

[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
where 0.62 is a conversion factor that converts acre-inches per acre per year to gallons per square foot per year.

[e] *MAWA* **(Annual Gallons Allowed)** *= (ETo) (0.62) [(ETAF x LA) + ((1-ETAF) x SLA)]*
where 0.62 is a conversion factor that converts acre-inches per acre per year to gallons per square foot per year, LA is the total landscape area in square feet, SLA is the total special landscape area in square feet, and ETAF is .55 for residential areas and 0.45 for non-residential areas.

ETAF Calculations

Regular Landscape Areas

Total ETAF x Area	(B)	1,226.18
Total Area	(A)	3,314
Average ETAF	**B ÷ A**	0.37

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

All Landscape Areas

Total ETAF x Area	(B+D)	1,226.18
Total Area	(A+C)	3,314
Sitewide ETAF	**(B+D) ÷ (A+C)**	0.37

GOLETA LIBRARY

CITY OF GOLETA

500 N Fairview Ave
Goleta, CA 93117

Designer:
JM|A+D
516 N Sepulveda Blvd,
Manhattan Beach, CA 90266
(310)
www.JMADesign.com

Consultants:
kpff

Consultants:
UPLA STUDIO

Consultants:
INTERFACE ENGINEERING

Consultants:
JENSEN HUGHES

Issued For:

No.	Description:	Date:
1	100% SCHEMATIC DESIGN	11 OCT 2024
2	100% DESIGN DEVELOPMENT	22 OCT 2024
3	ISSUED FOR BID	29 SEP 2015

ISSUED FOR BID 13 OCT 2025

Key Plan:

Seal & Signature:

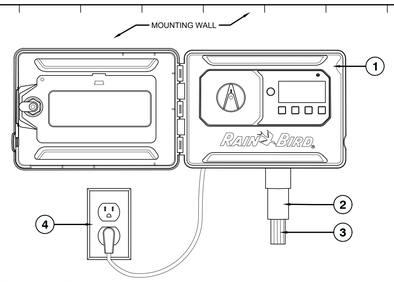
REGISTERED LANDSCAPE ARCHITECT STEPHANIE REED Expires 9/30/25 SLA 6086 STATE OF CALIFORNIA

Sheet Name:

Irrigation Plan

Project No.: 2400064
Drawn By: PB
Checked By: SR
Scale: AS NOTED

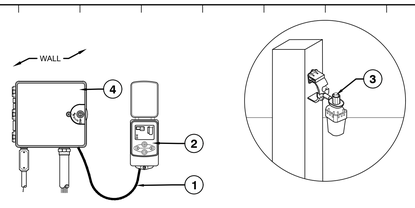
Sheet No.: L.201



1. CONVENTIONAL CONTROLLER: RAIN BIRD ESP-ME3, WALL MOUNT, MODULAR UP TO 22 STATIONS, REF. LEGEND FOR MODEL
2. 1-INCH PVC SCH 40 CONDUIT AND FITTINGS
3. WIRES TO REMOTE CONTROL VALVES
4. STANDARD 120 V PLUG

1 ESP-LXME3 CONTROLLER

3" = 1'-0" P-IN-GOL-46



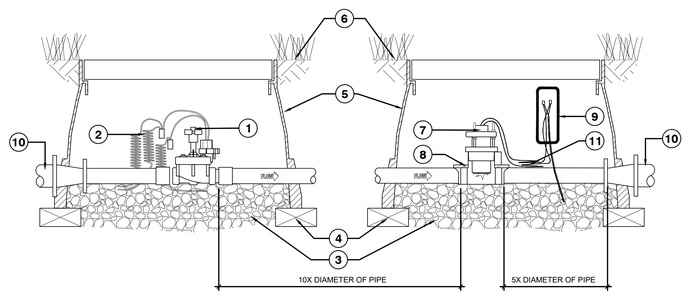
1. CABLE HARNESS FOR CONTROLLER INTERFACE (30" MAX)
2. RAIN BIRD WRS WIRELESS SENSOR CONTROLLER INTERFACE
3. RAIN BIRD WR2 SENSOR
4. IRRIGATION CONTROLLER, SEE LEGEND FOR MODEL

SENSOR NOTES:
1. SENSOR MAY BE MOUNTED ON FENCE, FENCE POST, GUTTERS, OR BUILDING WALLS.
2. SENSOR SHOULD NOT BE MOUNTED UNDER TREES, EAVES OR IN AREAS AFFECTED BY SPRINKLER SYSTEM OPERATION.

NOTES:
1. FOR BEST PERFORMANCE, THE CONTROLLER INTERFACE SHOULD BE INSTALLED AT LEAST FIVE FEET ABOVE THE GROUND.
2. IT IS RECOMMENDED THAT THE CONTROLLER INTERFACE BE INSTALLED AWAY FROM SOURCES OF ELECTRICAL INTERFERENCE (SUCH AS TRANSFORMERS, GENERATORS, PUMPS, FANS, ELECTRICAL METER BOXES) AND METAL OBJECTS TO MAXIMIZE COMMUNICATION RANGE.

2 RAIN BIRD WR2 RAIN/FREEZE SENSOR

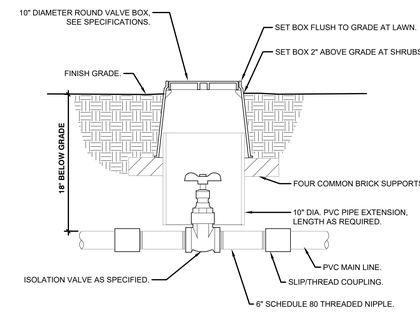
1" = 1'-0" P-IN-GOL-43



1. RAIN BIRD MASTER VALVE, SEE LEGEND FOR MODEL
2. 36" LENGTH OF COILED CONTROL WIRE
3. 3.0-INCH MIN. DEPTH OF 3/4-INCH WASHED GRAVEL
4. BRICK (1 OF 4), IF APPLICABLE
5. RAIN BIRD VB SERIES VALVE BOX W/ LID
6. FINISH GRADE
7. RAIN BIRD FS SERIES FLOW SENSOR, SEE LEGEND FOR MODEL
8. DOUBLE-STRAP SADDLE
9. REFERENCE MANUAL FOR WIRING INSTALLATION INSTRUCTIONS
10. CONCENTRIC REDUCER
11. PE-CABLE TO CONTROLLER

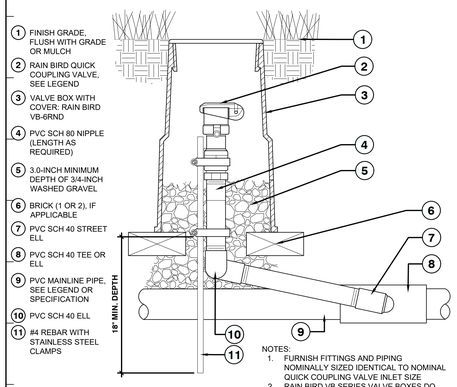
3 RAIN BIRD MASTER VALVE AND FS SERIES FLOW SENSOR

3" = 1'-0" P-IN-GOL-45



4 BRASS ISOLATION VALVE

1 1/2" = 1'-0" P-IN-GOL-32

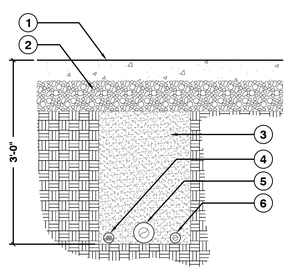


1. FINISH GRADE, FLUSH WITH GRADE OR MULCH
2. RAIN BIRD QUICK COUPLING VALVE, SEE LEGEND
3. VALVE BOX WITH COVER: RAIN BIRD VB-6RND
4. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
5. 3.0-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL
6. BRICK (1 OR 2), IF APPLICABLE
7. PVC SCH 40 STREET ELL
8. PVC SCH 40 TEE OR ELL
9. PVC MAINLINE PIPE, SEE LEGEND OR SPECIFICATION
10. PVC SCH 40 ELL
11. #4 REBAR WITH STAINLESS STEEL CLAMPS

NOTES:
1. FURNISH FITTINGS AND PIPING NOMINALLY SIZED IDENTICAL TO NOMINAL QUICK COUPLING VALVE INLET SIZE.
2. RAIN BIRD VB SERIES VALVE BOXES DO NOT REQUIRE BRICK SUPPORTS

5 RAIN BIRD QUICK COUPLING VALVE

3" = 1'-0" P-IN-GOL-44

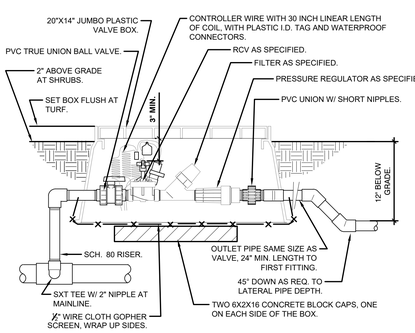


NOTES:
1. SEE IRRIGATION LEGEND FOR MAINLINE SIZE AND TYPE.
2. ALL SLEEVES SHALL BE SCH. 40 PVC PIPE.
3. ALL SLEEVES SHALL EXTEND 12" BEYOND THE EDGE OF PAVEMENT.
4. END OF SLEEVES SHALL BE LOCATED WITH A WOODEN STAKE OR PVC PIPE. LOCATORS SHALL RUN CONTINUOUSLY FROM THE END OF THE SLEEVE TO FINISHED GRADE.

1. PAVEMENT
2. BASE ROCK
3. CLEAN BACKFILL. 95% RELATIVE COMPACTION UNDER PAVING OR PER CIVIL ENGINEER'S PLANS
4. CONTROL WIRES, SLEEVE UNDER PAVING. INSTALL ADJACENT TO PRESSURIZED MAINLINE. BUNDLE SHALL BE NO MORE THAN 50% OF PIPE DIAMETER
5. MAINLINE, SLEEVE UNDER PAVING TO BE TWO TIMES THE DIAMETER OF THE PRESSURIZED MAINLINE PIPE
6. NON-PRESSURIZED LINE, SLEEVE UNDER PAVING TO BE BE TWO TIMES THE DIAMETER OF THE LATERAL LINE

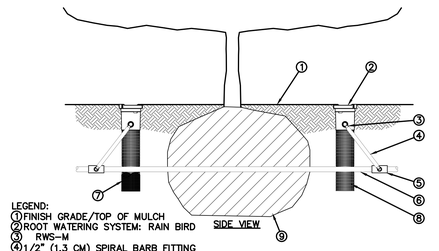
6 PIPE BENEATH PAVEMENT

1" = 1'-0" P-IN-GOL-39



7 1" DRIP VALVE/FILTER/REGULATOR

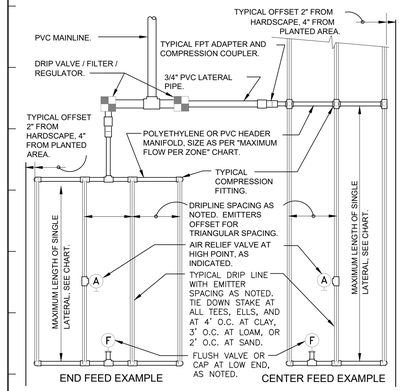
1 1/2" = 1'-0" P-IN-GOL-36



LEGEND:
1. FINISH GRADE/TOP OF MULCH
2. ROOT WATERING SYSTEM: RAIN BIRD RWS-M
3. 1/2" (1.3 CM) SPIRAL BARB FITTING (INCLUDED)
   1/2" (1.3 CM) SWING ASSEMBLY: RAIN BIRD SA-125050
   OR
4. 1/2" (1.3 CM) SWING PIPE: RAIN BIRD SP SERIES WITH 1/2" (1.3 CM) MALE NPT X
5. 0.490" BARB ELBOW: RAIN BIRD SBE-050
6. PVC SCH 40 TEE OR EL
7. PVC OR POLYETHYLENE LATERAL PIPE
8. OPTIONAL SOCK (RWS-SOCK) FOR SANDY SOILS
9. 4" (10.2 CM) WIDE X 18" (45.7 CM) LONG RIGID BRACE MEMBER (INCLUDED)
   PLANT ROOT BALL

8 ROOT WATERING SYSTEM

P-IN-GOL-47



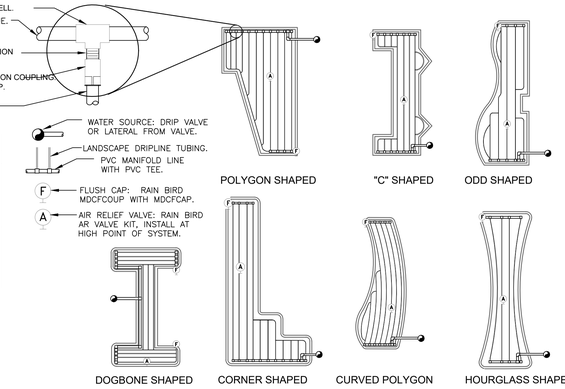
MAXIMUM LATERAL LENGTH (FEET)						
	EMITTER FLOW RATE GPH					
PSI	12" SPACING 0.6	0.9	18" SPACING 0.6	0.9	24" SPACING 0.6	0.9
10	125	96	175	135	218	171
20	249	191	350	171	442	340
30	307	236	434	333	550	422
40	350	268	495	380	627	171
50	125	96	175	135	218	171
60	125	96	175	135	218	171

GRID PRECIPITATION RATES (IN/HR)			
		EMITTER FLOW RATE	
EMITTER SPACING	LATERAL SPACING	0.6	0.9
12	12	0.96	1.44
18	18	0.69	1.03
24	24	0.28	0.41

LATERAL FLOW PER 100 FT (GPM)			
EMITTER FLOW	12" SPACING	18" SPACING	24" SPACING
0.6 GPH	1.0 GPM	0.67 GPM	0.50 GPM
0.9 GPH	1.5 GPM	1.0 GPM	0.75 GPM

MAXIMUM FLOW PER ZONE		
	MAX GPM	PSI LOSS
SCHEDULE 40 PVC HEADER SIZE		
1/2"	4.7 GPM	7.7 PSI
3/4"	8.3 GPM	5.6 PSI
1"	13.5 GPM	4.2 PSI
1-1/2"	33.9 GPM	2.9 PSI
2"	52.4 GPM	1.9 PSI
POLY PIPE HEADER SIZE		
1/2"	4.7 GPM	8.8 PSI
3/4"	8.3 GPM	6.3 PSI
1"	13.5 GPM	4.8 PSI
1-1/2"	31.8 GPM	2.9 PSI
2"	52.4 GPM	2.2 PSI

SLOPED CONDITION NOTE:
1. DRIPLINE LATERALS SHOULD FOLLOW THE CONTOURS OF THE SLOPE WHENEVER POSSIBLE.
2. INSTALL AIR RELIEF VALVE AT HIGHEST POINT.
3. NORMAL SPACING WITHIN THE TOP ⅓ OF SLOPE,
4. INSTALL DRIPLINE AT 25% GREATER SPACING AT THE BOTTOM ⅓ OF THE SLOPE.
5. WHEN ELEVATION CHANGE IS 10 FT OR MORE, ZONE THE BOTTOM ⅓ ON A SEPARATE VALVE.



9 TYPICAL RAIN BIRD DRIPLINE REQUIREMENTS

N.T.S. P-IN-GOL-40

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4	ISSUED FOR BID	29 SEP 2025

ISSUED FOR BID 13 OCT 2025

Key Plan:

Seal & Signature:
REGISTERED LANDSCAPE ARCHITECT STEPHANIE REED Expires 9/30/25 LA 6086 STATE OF CALIFORNIA

Sheet Name:
Irrigation Details

Project No.: 2400064
Drawn By: PB
Checked By: SR
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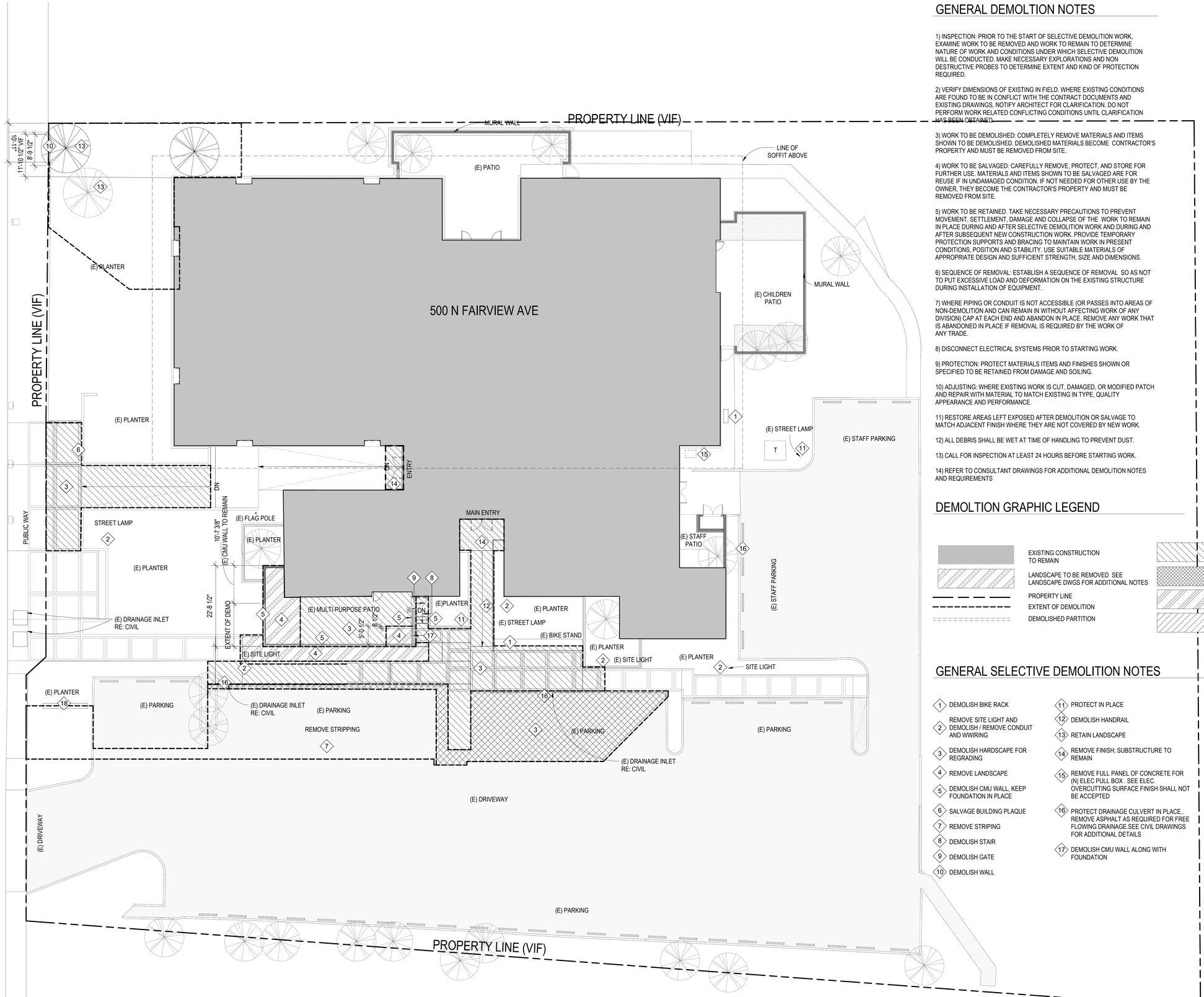
Sheet No.: L.202



GENERAL DEMOLTION NOTES

1) INSPECTION: PRIOR TO THE START OF SELECTIVE DEMOLITION WORK, EXAMINE WORK TO BE REMOVED AND WORK TO REMAIN TO DETERMINE NATURE OF WORK AND CONDITIONS UNDER WHICH SELECTIVE DEMOLITION WILL BE CONDUCTED. MAKE NECESSARY EXPLORATIONS AND NON DESTRUCTIVE PROBES TO DETERMINE EXTENT AND KIND OF PROTECTION REQUIRED.

2) VERIFY DIMENSIONS OF EXISTING IN FIELD. WHERE EXISTING CONDITIONS ARE FOUND TO BE IN CONFLICT WITH THE CONTRACT DOCUMENTS AND EXISTING DRAWINGS, NOTIFY ARCHITECT FOR CLARIFICATION. DO NOT PERFORM WORK RELATED CONFLICTING CONDITIONS UNTIL CLARIFICATION HAS BEEN OBTAINED.

3) WORK TO BE DEMOLISHED: COMPLETELY REMOVE MATERIALS AND ITEMS SHOWN TO BE DEMOLISHED. DEMOLISHED MATERIALS BECOME CONTRACTOR'S PROPERTY AND MUST BE REMOVED FROM SITE.

4) WORK TO BE SALVAGED: CAREFULLY REMOVE, PROTECT, AND STORE FOR FURTHER USE. MATERIALS AND ITEMS SHOWN TO BE SALVAGED ARE FOR REUSE IF IN UNDAMAGED CONDITION. IF NOT NEEDED FOR OTHER USE BY THE OWNER, THEY BECOME THE CONTRACTOR'S PROPERTY AND MUST BE REMOVED FROM SITE.

5) WORK TO BE RETAINED. TAKE NECESSARY PRECAUTIONS TO PREVENT MOVEMENT, SETTLEMENT, DAMAGE AND COLLAPSE OF THE WORK TO REMAIN IN PLACE DURING AND AFTER SELECTIVE DEMOLITION WORK AND DURING AND AFTER SUBSEQUENT NEW CONSTRUCTION WORK. PROVIDE TEMPORARY PROTECTION SUPPORTS AND BRACING TO MAINTAIN WORK IN PRESENT CONDITIONS, POSITION AND STABILITY. USE SUITABLE MATERIALS OF APPROPRIATE DESIGN AND SUFFICIENT STRENGTH, SIZE AND DIMENSIONS.

6) SEQUENCE OF REMOVAL: ESTABLISH A SEQUENCE OF REMOVAL SO AS NOT TO PUT EXCESSIVE LOAD AND DEFORMATION ON THE EXISTING STRUCTURE DURING INSTALLATION OF EQUIPMENT.

7) WHERE PIPING OR CONDUIT IS NOT ACCESSIBLE (OR PASSES INTO AREAS OF NON-DEMOLITION AND CAN REMAIN IN WITHOUT AFFECTING WORK OF ANY DIVISION) CAP AT EACH END AND ABANDON IN PLACE. REMOVE ANY WORK THAT IS ABANDONED IN PLACE IF REMOVAL IS REQUIRED BY THE WORK OF ANY TRADE.

8) DISCONNECT ELECTRICAL SYSTEMS PRIOR TO STARTING WORK.

9) PROTECTION: PROTECT MATERIALS ITEMS AND FINISHES SHOWN OR SPECIFIED TO BE RETAINED FROM DAMAGE AND SOILING.

10) ADJUSTING: WHERE EXISTING WORK IS CUT, DAMAGED, OR MODIFIED PATCH AND REPAIR WITH MATERIAL TO MATCH EXISTING IN TYPE, QUALITY APPEARANCE AND PERFORMANCE.

11) RESTORE AREAS LEFT EXPOSED AFTER DEMOLITION OR SALVAGE TO MATCH ADJACENT FINISH WHERE THEY ARE NOT COVERED BY NEW WORK.

12) ALL DEBRIS SHALL BE WET AT TIME OF HANDLING TO PREVENT DUST.

13) CALL FOR INSPECTION AT LEAST 24 HOURS BEFORE STARTING WORK.

14) REFER TO CONSULTANT DRAWINGS FOR ADDITIONAL DEMOLITION NOTES AND REQUIREMENTS

DEMOLTION GRAPHIC LEGEND

- EXISTING CONSTRUCTION TO REMAIN
- LANDSCAPE TO BE REMOVED SEE LANDSCAPE DWGS FOR ADDITIONAL NOTES
- PROPERTY LINE
- EXTENT OF DEMOLITION
- DEMOLISHED PARTITION
- DEMOLISHED HARDSCAPE
- DEMOLISHED PARKING
- DEMOLISHED CEILING AND EXISTING LIGHT FIXTURE , DIFFUSER AND OTHER DEVICES
- FRAMED BEARING WALL, PROTECT IN PLACE

GENERAL SELECTIVE DEMOLITION NOTES

1. DEMOLISH BIKE RACK
2. REMOVE SITE LIGHT AND DEMOLISH / REMOVE CONDUIT AND WWIRING
3. DEMOLISH HARDSCAPE FOR REGRADING
4. REMOVE LANDSCAPE
5. DEMOLISH CMU WALL, KEEP FOUNDATION IN PLACE
6. SALVAGE BUILDING PLAQUE
7. REMOVE STRIPING
8. DEMOLISH STAIR
9. DEMOLISH GATE
10. DEMOLISH WALL
11. PROTECT IN PLACE
12. DEMOLISH HANDRAIL
13. RETAIN LANDSCAPE
14. REMOVE FINISH; SUBSTRUCTURE TO REMAIN
15. REMOVE FULL PANEL OF CONCRETE FOR (N) ELEC PULL BOX . SEE ELEC. OVERCUTTING SURFACE FINISH SHALL NOT BE ACCEPTED
16. PROTECT DRAINAGE CULVERT IN PLACE.. REMOVE ASPHALT AS REQUIRED FOR FREE FLOWING DRAINAGE.SEE CIVIL DRAWINGS FOR ADDITIONAL DETAILS
17. DEMOLISH CMU WALL ALONG WITH FOUNDATION

SITE DEMOLITION PLAN 01
SCALE: 3/32" = 1'-0"

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JEFFREY MEEKER
C-37366
01/31/2027
RENEWAL DATE
STATE OF CALIFORNIA

Sheet Name:
DEMOLITION SITE PLAN

Project No.:	Sheet No.:
24.05	D100
Drawn By: Author	
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GENERAL SELECTIVE DEMOLITION NOTES

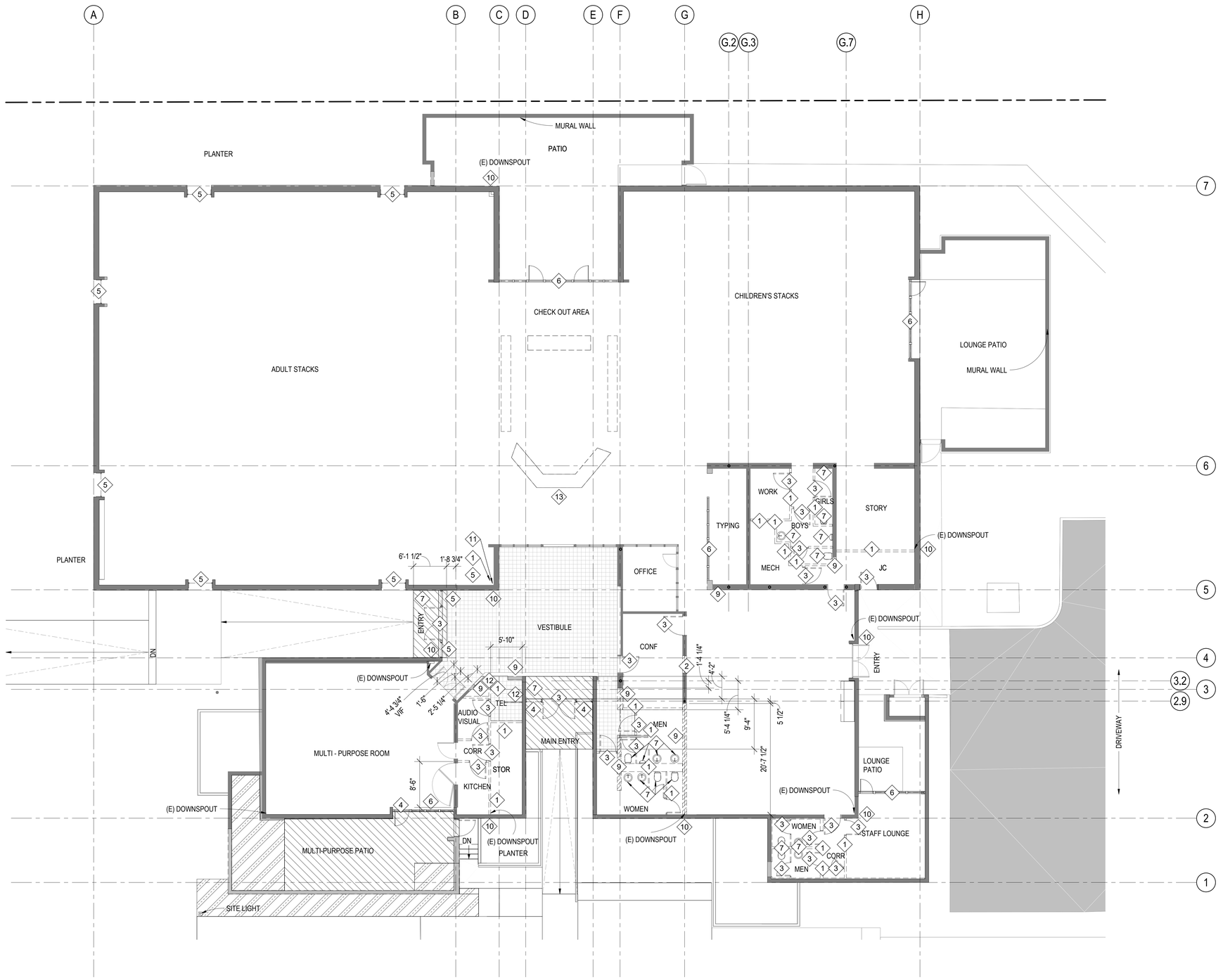
1. DEMOLISH EXISTING INTERIOR PARTITION
2. DEMOLISH PART OF EXISTING WALL TO ACCOMODATE NEW OPENING
3. DEMOLISH DOOR AND DOOR FRAME
4. REMOVE DOOR PANEL
5. DEMOLISH WINDOW AND FRAME
6. DEMOLISH STOREFRONT
7. DEMOLISH EXISTING PLUMBING FIXTURES
8. DEMOLISH EXISITING SLAB
9. DEMOLISH STRUCTURAL WALL. PRIOR TO REMOVING WALL ERECT SHORING TO SUPPORT SPANNING MEMBERS. REFER TO STRUCTURAL DRAWINGS AND 02 41 00 "SELECTIVE DEMOLTION" FOR ADDINTIONAL INFORMATION AND REQUIREMENTS FOR SHORING.
10. EXISTING DRAINLINE REMAINS
11. PROTECT DOWNSPOUT IN PLACE
12. REMOVE QUARRY TILES AND SALVAGE
13. REMOVE EXISTING DESK

DEMOLTION GRAPHIC LEGEND

- EXISTING CONSTRUCTION TO REMAIN
- LANDSCAPE TO BE REMOVED SEE LANDSCAPE DWGS FOR ADDITIONAL NOTES
- PROPERTY LINE
- EXTENT OF DEMOLITION
- DEMOLISHED PARTITION
- DEMOLISHED HARDSCAPE
- DEMOLISHED PARKING
- DEMOLISHED CEILING AND EXISTING LIGHT FIXTURE , DIFFUSER AND OTHER DEVICES
- FRAMED BEARING WALL, PROTECT IN PLACE

SHEET NOTES

1. REFER TO D100 FOR TYPICAL DEMOLITION NOTES AND SITE DEMOLITION NOTES
2. REFER TO STRUCTURAL SET WHEN DEMOLISHING LOAD BEARING WALL.



DEMOLITION PLAN - FIRST FLOOR LEVEL 01

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

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DEMOLITION PLAN

Project No.: 24.05

Drawn By: Author

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Scale: As indicated

Sheet No.: D200

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GENERAL SELECTIVE DEMOLITION NOTES

1. REMOVE EXISTING ROOF EQMT AND STRUCTURE PER MEP
2. EXTENT OF ROOFING TO BE REMOVED
3. SALVAGE EXISITING WALKING PADS FOR REUSE

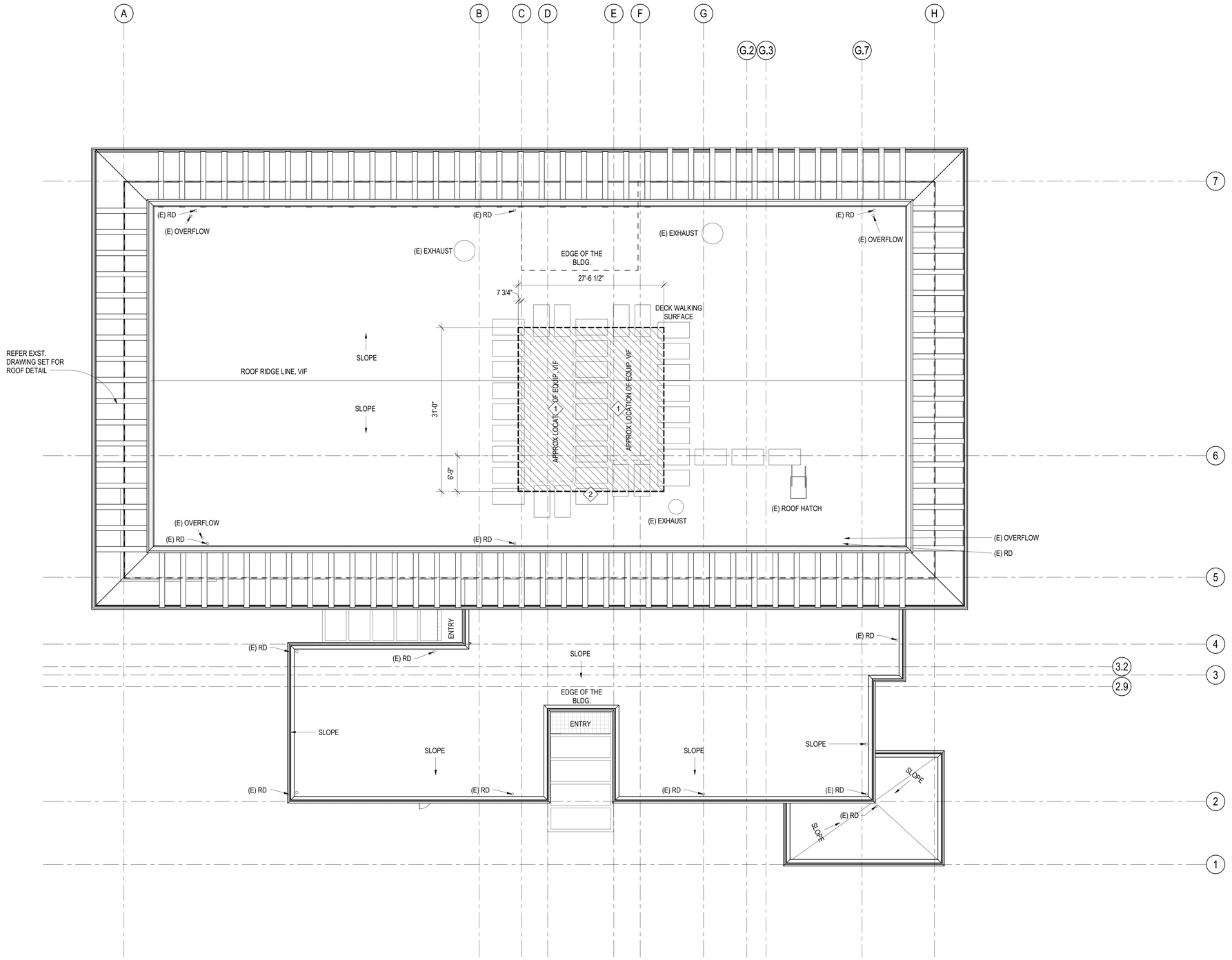
ROOF DEMOLTION GRAPHIC LEGEND

EXISTING CONSTRUCTION TO REMAIN

EXTENT OF DEMOLITION

SHEET NOTES

1. REFER TO D100 FOR TYPICAL DEMOLITION AND SITE DEMOLITION NOTES
2. REFER TO STRUCTURAL DRAWINGS



ROOF DEMOLITION PLAN 01

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

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ROOF DEMOLITION PLAN

Project No.:	Sheet No.:
24.05	D201
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DEMOLTION GRAPHIC LEGEND

- EXISTING CONSTRUCTION TO REMAIN
- LANDSCAPE TO BE REMOVED SEE LANDSCAPE DWGS FOR ADDITIONAL NOTES
- PROPERTY LINE
- EXTENT OF DEMOLITION
- DEMOLISHED PARTITION
- DEMOLISHED HARDSCAPE
- DEMOLISHED PARKING
- DEMOLISHED CEILING AND EXISTING LIGHT FIXTURE , DIFFUSER AND OTHER DEVICES
- FRAMED BEARING WALL, PROTECT IN PLACE

SHEET NOTES

1. REFER TO D100 FOR TYPICAL DEMOLITION NOTES

GENERAL SELECTIVE DEMOLITION NOTES

1. DEMOLISH CEILING & ASSOCIATED LIGHT FIXTURES, DIFFUSERS AND OTHER DEVICES
2. WORK TO BE RETAINED PROTECT IN PLACE
3. DEMOLISH TRELLIS
4. DEMOLISH LIGHTING AND ELECTRICAL COMPONENTS IN CEILING
5. EXISTING PLASTER SOFFIT TO REMAIN
6. REMOVE LIGHT FIXTURE AND PROTECT CONDUIT IN PLACE
7. DEMOLISH LIGHT FIXTURE AND REFER TO EXTERIOR SHEETS FOR PATCHING DETAIL
8.

DEMO RCP 01
SCALE: 1/8" = 1'-0"

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DEMOLITION REFLECTED CEILING PLAN

Project No.:	24.05	Sheet No.:
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SHEET NOTES

1) REFER TO D100 FOR TYPICAL NOTES

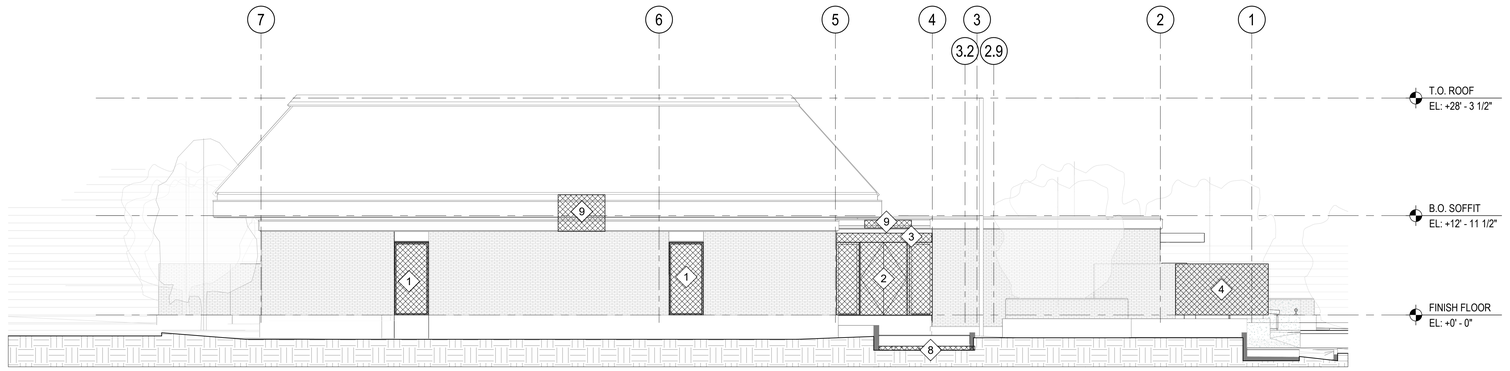
ELEVATION DEMOLITION GRAPHIC LEGEND

EXTENT OF DEMO, VIF

CLEAN GUTTER

GENERAL SELECTIVE DEMOLITION NOTES

1. DEMOLISH WINDOW AND FRAME
2. DEMOLISH STOREFRONT
3. DEMOLISH TRELLIS
4. DEMOLISH CMU WALL, KEEP FOUNDATION IN PLACE
5. DEMOLISH CMU WALL ALONG WITH FOUNDATION
6. DEMOLISH HARDSCAPE
7. DEMOLISH STAIR
8. DEMOLISH RAMP
9. OBSERVED WATER DAMAGE VERIFY EXTENT OF REPLACEMENT IN FIELD
10. REMOVE PREVIOUSLY PATCHED FASCIA FULL WIDTH OF BOARD
11. SITE LIGHT TO BE REMOVED
12. DEMOLISH BIKE RACK
13. HANDRAIL TO BE REMOVED



OVERALL W ELEVATION DEMOLITION DRAWING 04
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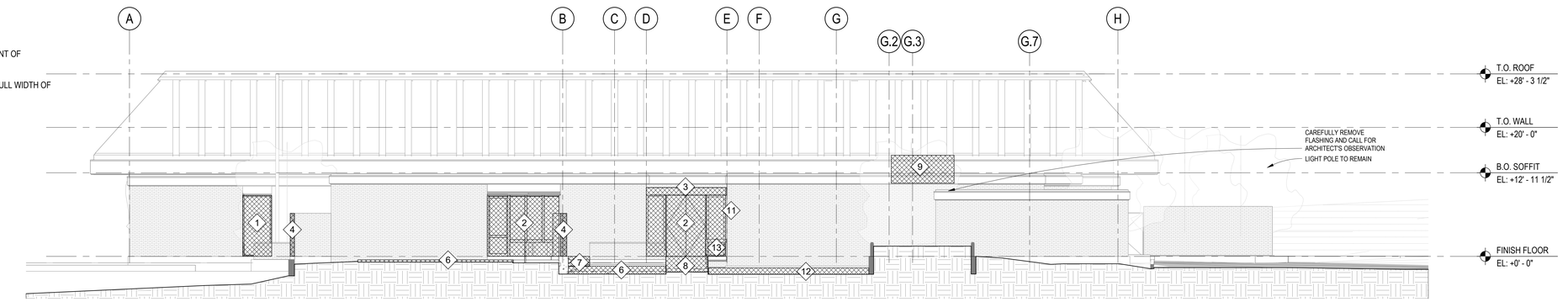

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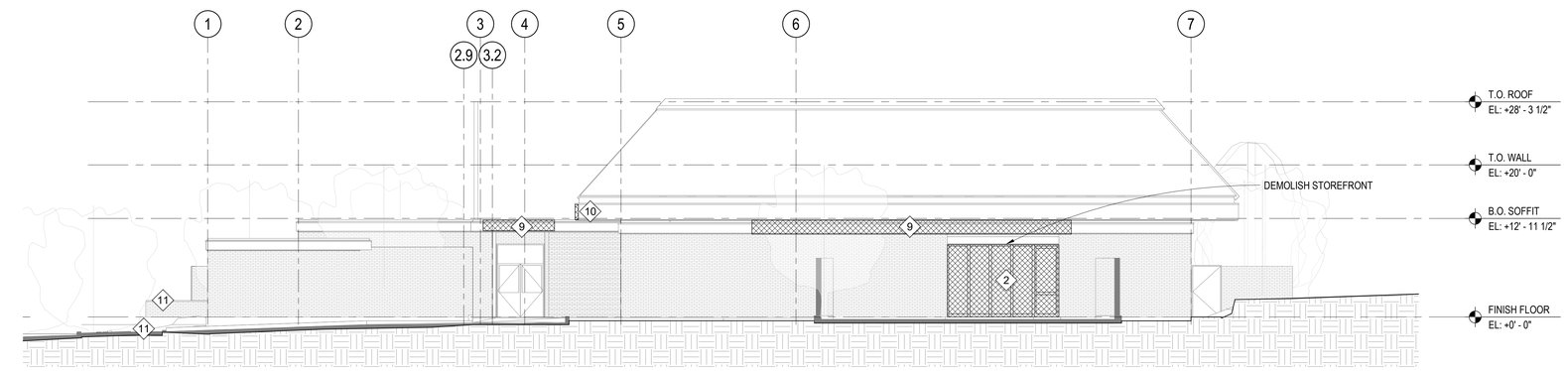

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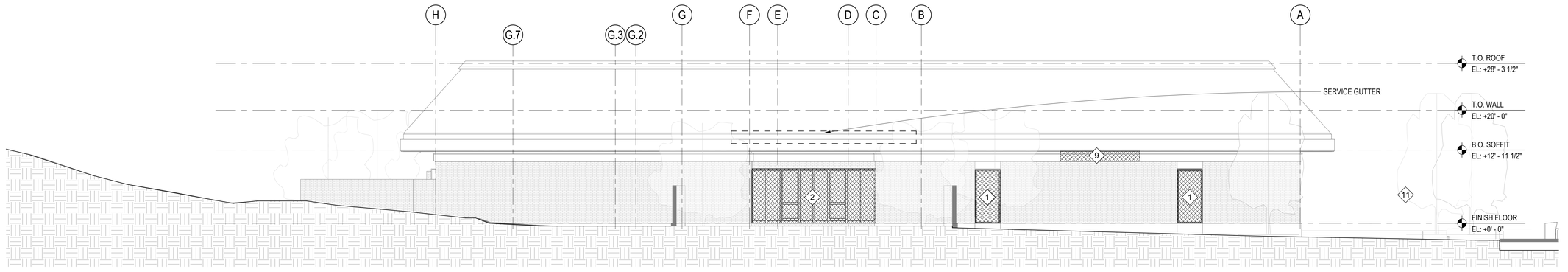

OVERALL N ELEVATION DEMOLITION DRAWING 01
SCALE: 1/8" = 1'-0"

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C-37366
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OVERALL BUILDING ELEVATION DEMOLITION DRAWINGS

Project No.: 24.05

Drawn By: Author

Checked By: Checker

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SHEET NOTES

1) REFER TO D100 FOR TYPICAL NOTES

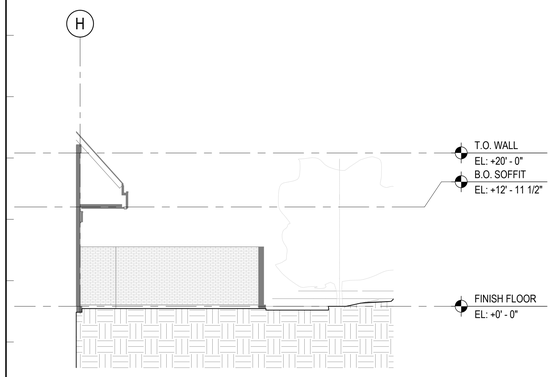
ELEVATION DEMOLITION GRAPHIC LEGEND

EXTENT OF DEMO, VIF

CLEAN GUTTER

GENERAL SELECTIVE DEMOLITION NOTES

1. DEMOLISH WINDOW AND FRAME
2. DEMOLISH STOREFRONT
3. DEMOLISH TRELLIS
4. DEMOLISH CMU WALL, KEEP FOUNDATION IN PLACE
5. DEMOLISH CMU WALL ALONG WITH FOUNDATION
6. DEMOLISH HARDSCAPE
7. DEMOLISH STAIR
8. DEMOLISH RAMP
9. OBSERVED WATER DAMAGE VERIFY EXTENT OF REPLACEMENT IN FIELD
10. REMOVE PREVIOUSLY PATCHED FASCIA FULL WIDTH OF BOARD
11. SITE LIGHT TO BE REMOVED
12. DEMOLISH BIKE RACK
13. HANDRAIL TO BE REMOVED
14. DEMOLISH LANDING



CHILDRENS PATIO NORTH ELEVATION 28
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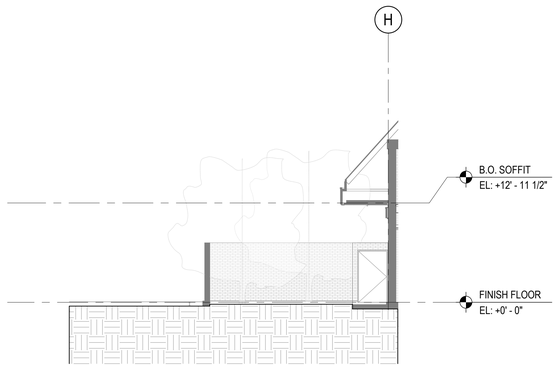

CHILDRENS PATIO SOUTH ELEVATION 18
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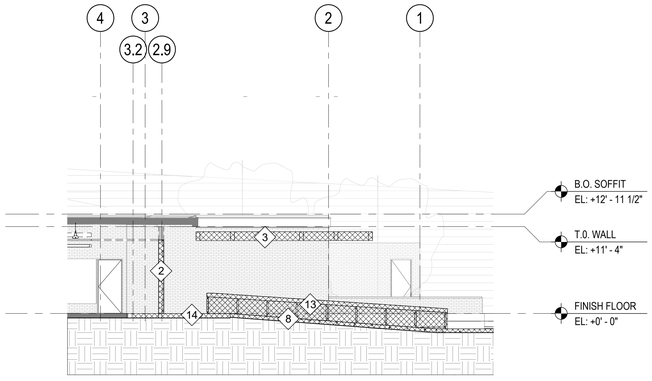

S-E ENTRY ELEVATION DEMOLITION DRAWING 05
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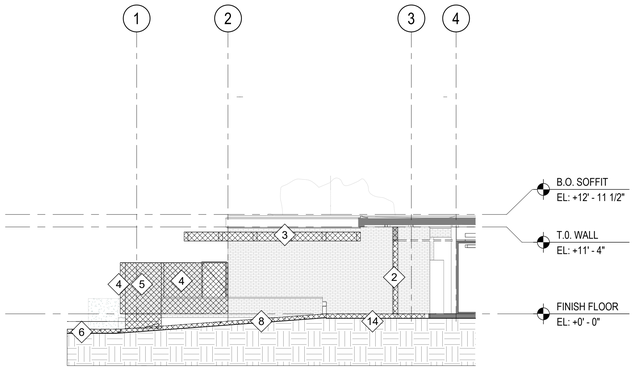

S-W ENTRY ELEVATION DEMOLITION DRAWING 04
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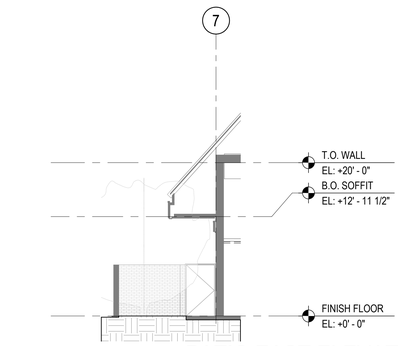

PATIO EAST ELEVATION 27
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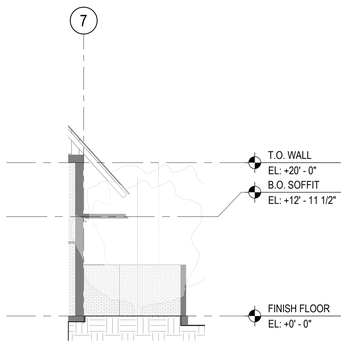
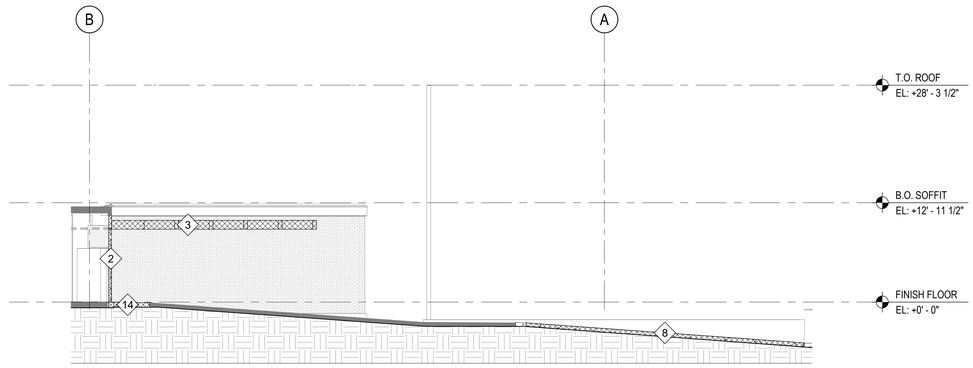
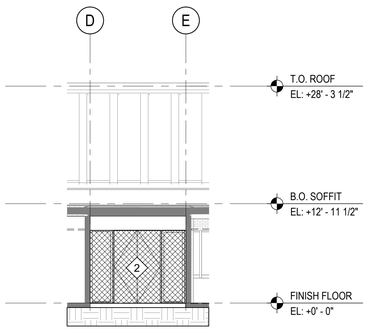


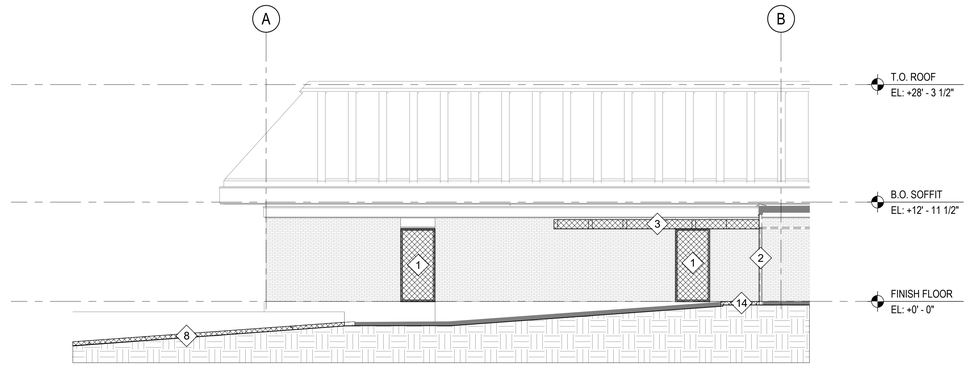
PATIO WEST ELEVATION 06
SCALE: 1/8" = 1'-0"



W-N ENTRY ELEVATION DEMOLITION DRAWING 02
SCALE: 1/8" = 1'-0"



S-ENTRY DEMO ELEV 16
SCALE: 1/8" = 1'-0"



W-S ENTRY ELEVATION DEMOLITION DRAWING 01
SCALE: 1/8" = 1'-0"

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OVERALL BUILDING ELEVATION DEMOLITION DRAWINGS

Project No.: 24.05
Drawn By: Author
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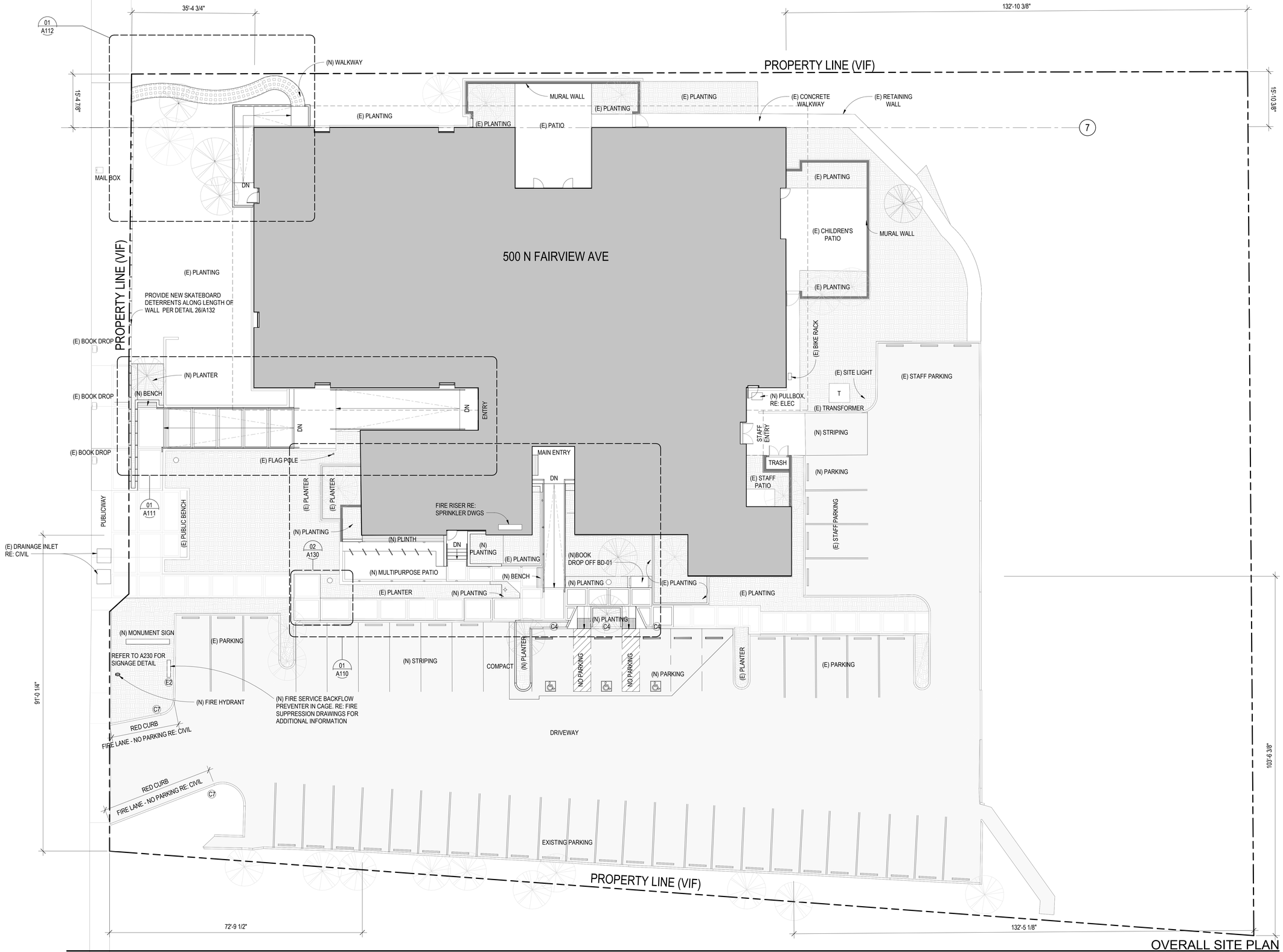
Sheet No.: D501

SHEET NOTES

1) REFER TO A230 FOR ADDITIONAL SIGNAGE NOTES AND DETAILS



OVERALL SITE PLAN 01

SCALE: 3/32" = 1'-0"

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OVERALL SITE PLAN

Project No.:	24.05
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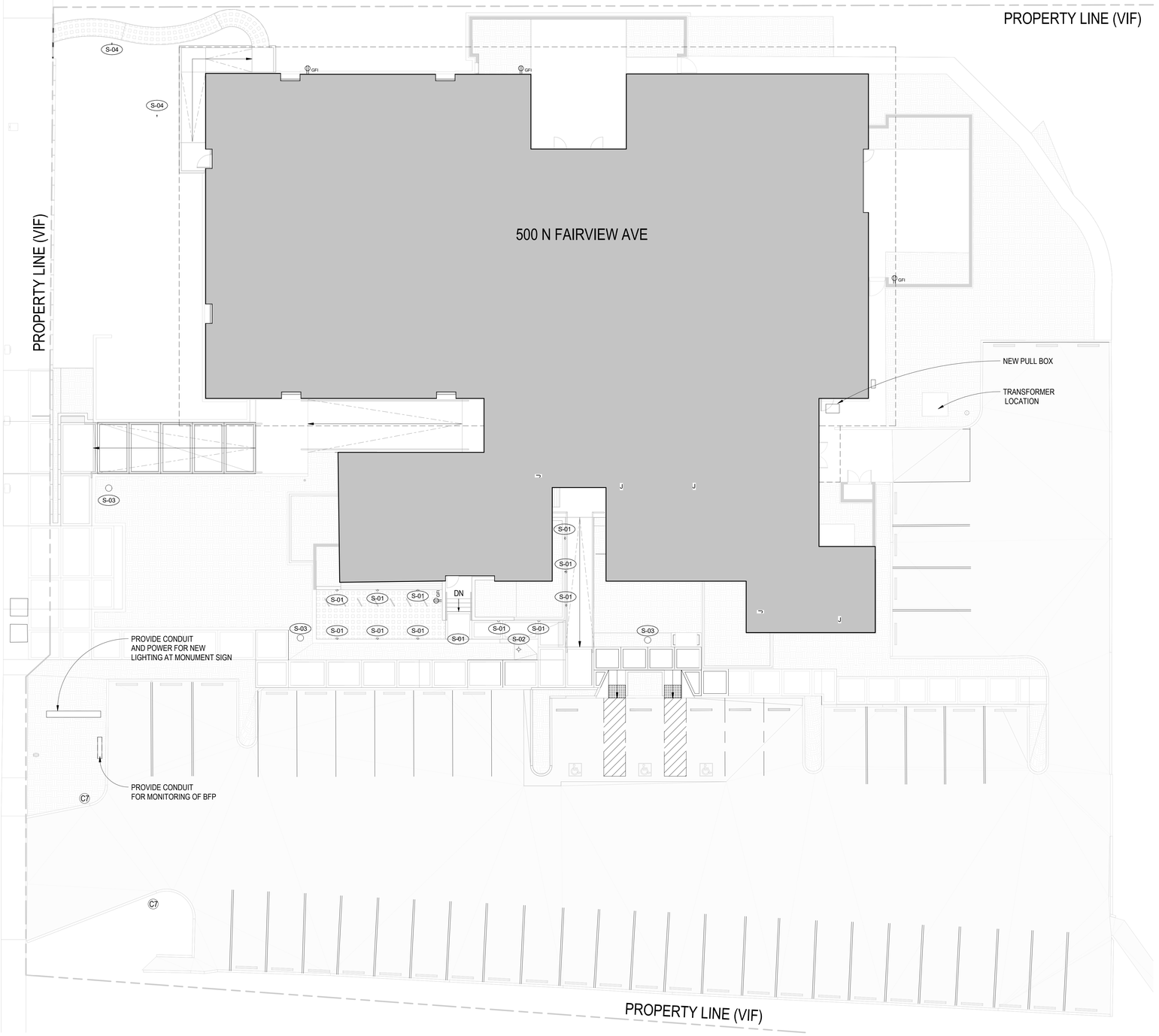
Scale:	3/32" = 1'-0"

Sheet No.: A100



SHEET NOTES

1) REFER TO ELECTRICAL FOR ADDITIONAL POWER AND DATA DETAILS

POWER AND DATA LEGEND .

- SINGLE RECEPTACLE OUTLET - WALL MOUNTED
- DUPLEX RECEPTACLE OUTLET - WALL MOUNTED
- DUPLEX RECEPTACLE OUTLET, ONE RECEPTACLE SWITCHED AND ONE RECEPTACLE CONSTANT
- QUADRAPLEX RECEPTACLE OUTLET - WALL MOUNTED
- SPECIAL RECEPTACLE OUTLET - WALL MOUNTED
- FLUSH MOUNTED RACEWAY AT 36" U.N.O.SEE PLAN FOR OUTLET QUANTITY AND LOCATION. OUTLETS AT SINK AREAS TO BE GFCI.
- (DC) DOOR CONTACT

SYMBOL SUBSCRIPTS:

D	- DEDICATED CIRCUIT
EM	- EMERGENCY CIRCUIT
EP	- EXPLOSION PROOF
GFCI	WITH GROUND FAULT CIRCUIT INTERRUPTER
IG	ISOLATED GROUND
FP-	FINGER PRINTING DEVICE
WP	WEATHERPROOF TYPE
XXmm	MOUNTAING HEIGHT
TS	TECHNICAL SECURITY

- CATV FLUSH TRIPLE-GANG BOX (+60" AFF) FOR DUPLEX POWER AND DATA AND COAX JACKS PER COMMUNICATION/AV CONSULTANT DRAWINGS
- (J) RECESSED JUNCTION BOX - WALL MOUNTED
- (J) FLUSH MOUNTED FLOOR ELECTRICAL JUNCTION BOX
- (AV) WALL MOUNTED AUDIO/VISUAL JUNCTION BOX, RE: A/V DRAWINGS
- PAM PERSONNEL AUTHENTICATION MODULE
- SS POE SURGE PROTECTOR

OVERALL SITE POWER PLAN 01
SCALE: 3/32" = 1'-0"

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OVERALL SITE POWER PLAN

Project No.:	Sheet No.:
24.05	A101
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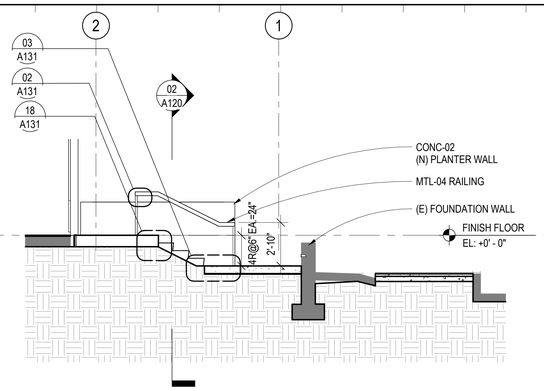
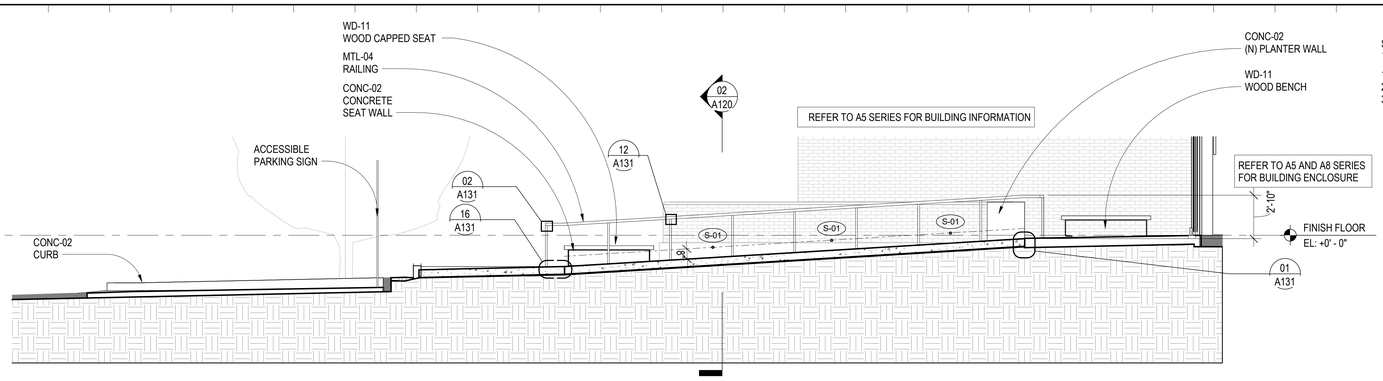


SITE SECTION @ MULTIPURPOSE PATIO 03

SCALE: 1/4" = 1'-0"

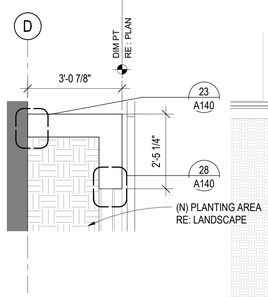


SITE SECTION @ PRIMARY ENTRY RAMP 02

SCALE: 1/4" = 1'-0"

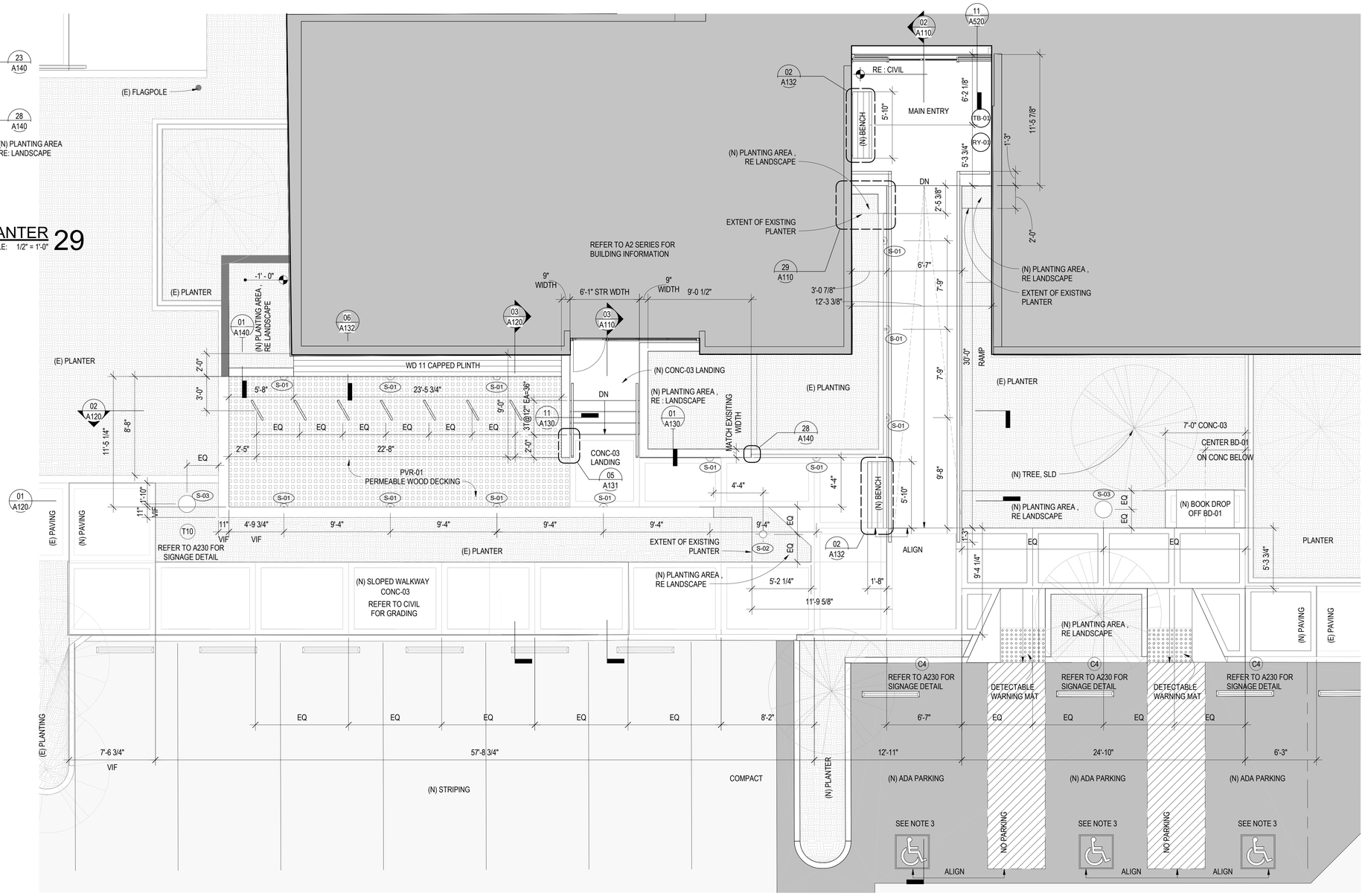
SHEET NOTES

1. REFER TO E002 FOR LIGHT FIXTURE SCHEDULE
2. REFER TO A231 FOR SIGNAGE DETAILS
3. THE ACCESSIBLE PARKING SPACE SHALL BE MARKED WITH INTERNATIONAL SYMBOL OF ACCESSIBILITY IN WHITE WITH BLUE BACKGROUND, 36" X 36" MINIMUM. THE INTERNATIONAL SYMBOL SHALL ALIGN WITH THE END OF PARKING SPACE.



ENLARGED PLAN @ PLANTER 29

SCALE: 1/2" = 1'-0"



PRIMARY ENTRY ENLARGED PLAN 01

SCALE: 1/4" = 1'-0"

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ENLARGED SITE PLAN AT PRIMARY ENTRY

Project No.:	Sheet No.:
24.05	A110
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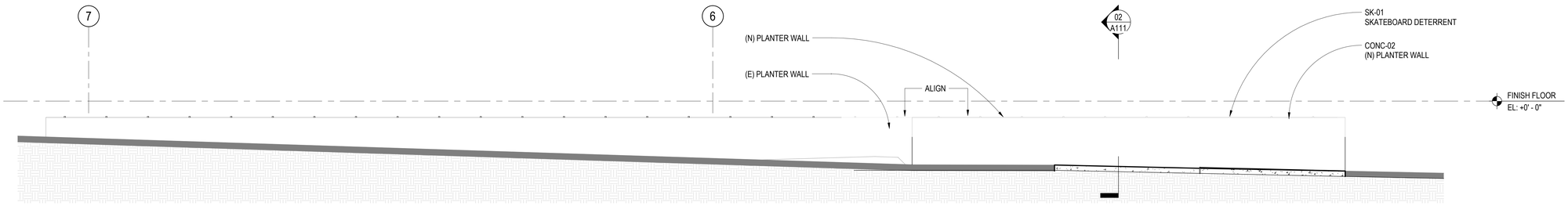
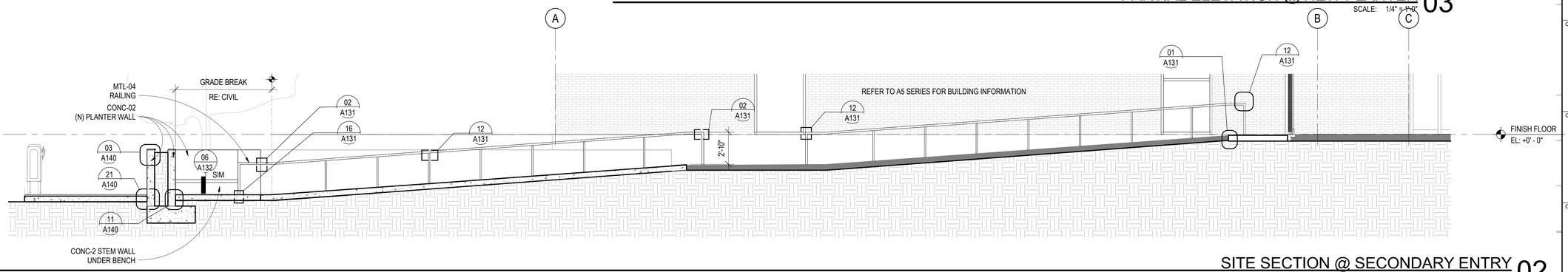
SHEET NOTES

1. REFER TO A110 FOR TYPICAL NOTES



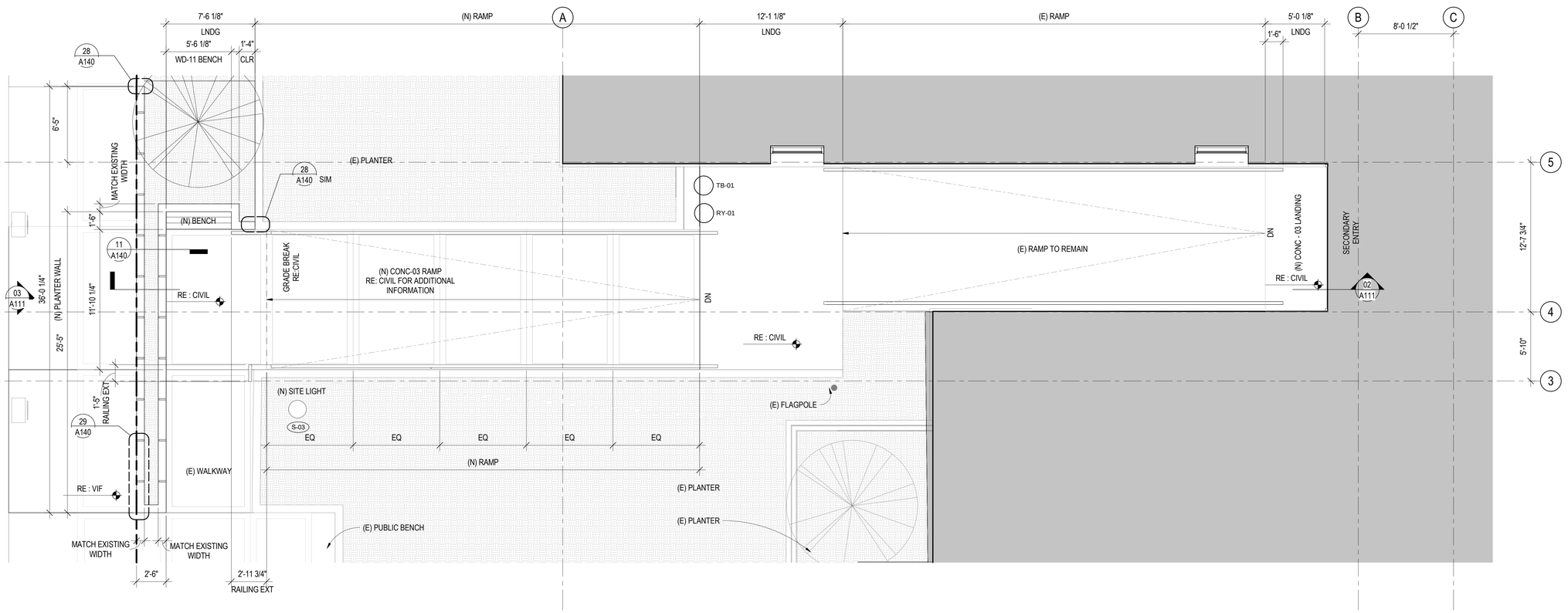
PARTIAL ELEVATION @ NEW PLANTER 03

SCALE: 1/4" = 1'-0"



SITE SECTION @ SECONDARY ENTRY 02

SCALE: 1/4" = 1'-0"



SECONDARY ENTRY ENLARGED PLAN 01

SCALE: 1/4" = 1'-0"

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ENLARGED SITE PLAN AT SECONDARY ENTRY

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24.05	A111
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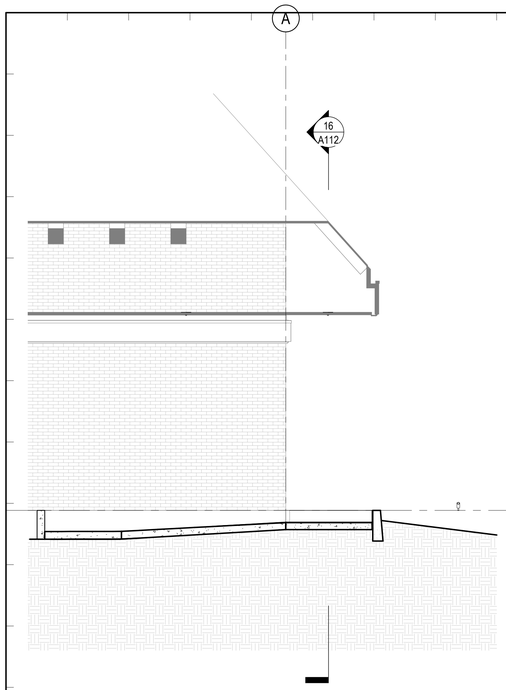

SECTION 29
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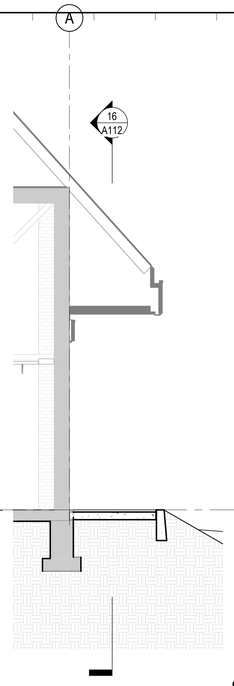

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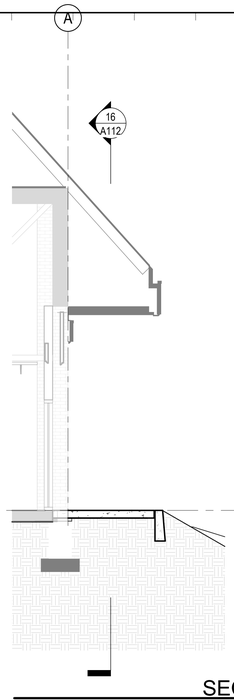

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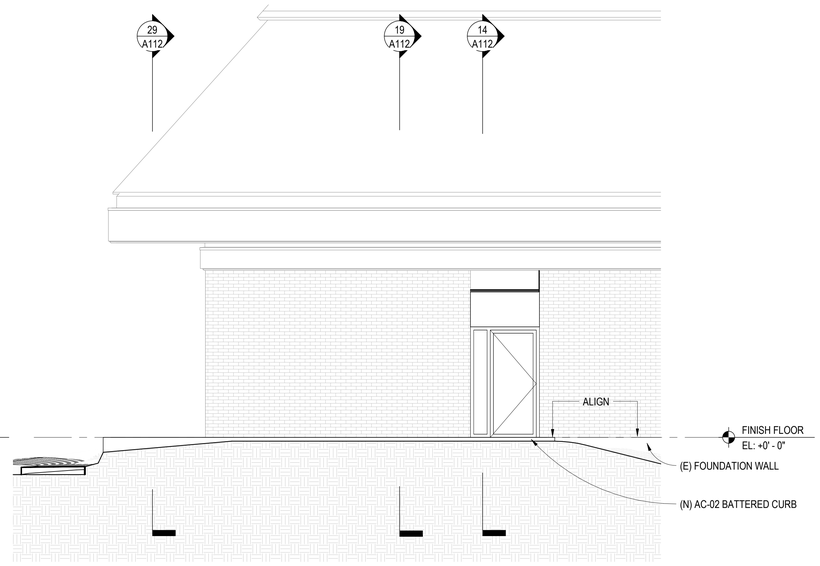


ELEVATION 02
SCALE: 1/4" = 1'-0"

7

Robi Decking® Black Locust: End Grain Flow Pavers

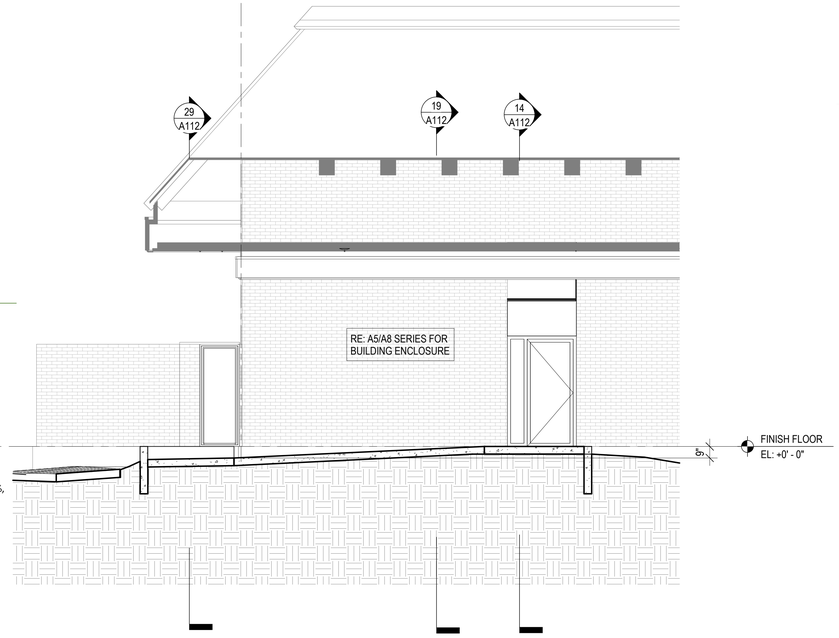
Key Details:
- Black Locust, scientific name Robinia Pseudoacacia
- Sizes stocked:
  - 9 block: 12" x 12" sheets with 9 blocks each 3.5" x 3.5" x 2.3" high

Specifications:

Wood Common name	Black Locust
Wood Scientific name	Robinia Pseudoacacia
Color	Initial color is blonde to light red/light brown
Grain	Tight grain
Density @ 12% moisture	4.0 to 4.5 pounds per board foot
Durability	Highest rating from USDA (Exceptionally high decay resistance)
Fire rating	Class A (ASTM E84-16 tested)
Hardness (Janka)	1,700
Resistance to decay and insect attack	Resistant to attack by decay fungi and termites.
Modulus of rupture	19,400 lbf/in2
Modulus of elasticity	2,050,000 lbf/in2
Maximum crushing strength	10,200 lbf/in2
Wood movement properties	Radial: 4.6%, Tangential: 7.2%, Volumetric: 10.2%, T/R Ratio: 1.6

sales@robidecking.com / 336.365.2850
See all of our products at robidecking.com

ADA COMPLIANT PERMEABLE WOOD DECKING 26
NTS



SECTION 16
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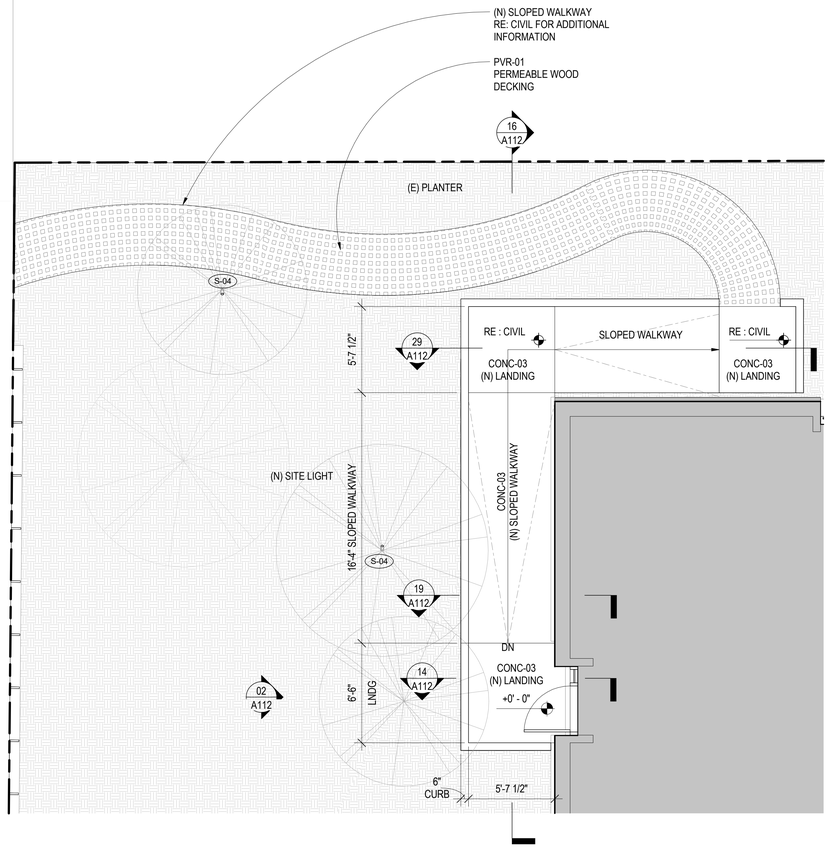

ENLARGED PLAN AT NEW EGRESS 01
SCALE: 1/4" = 1'-0"

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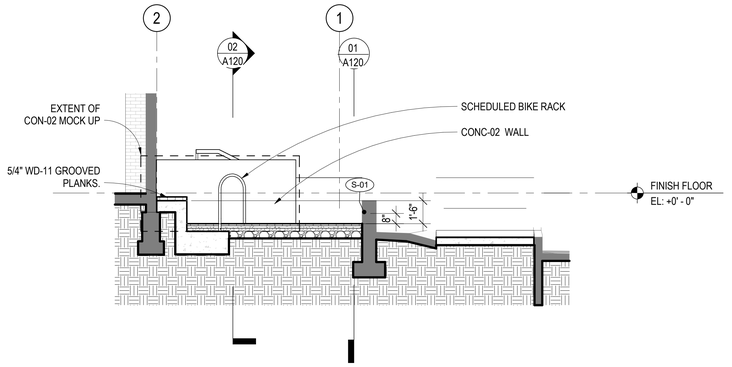
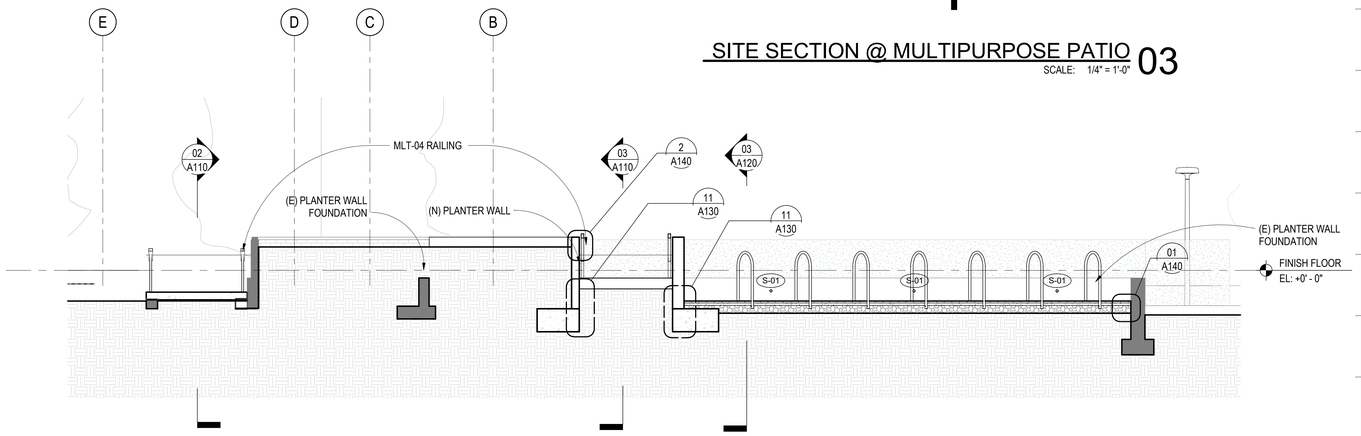


SITE SECTION @ MULTIPURPOSE PATIO 03

SCALE: 1/4" = 1'-0"



SITE SECTION @ MULTIPURPOSE PATIO 02

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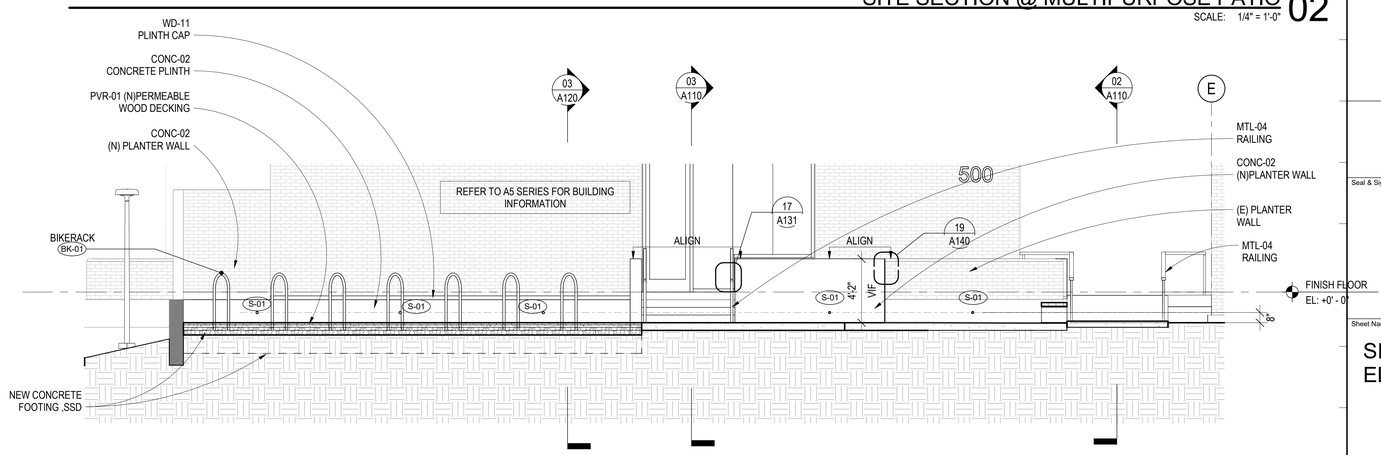

SITE SECTION @ MULTIPURPOSE PATIO 01

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Sheet Name:

SITE SECTIONS & ELEVATIONS

Project No.: 24.05

Drawn By: Author

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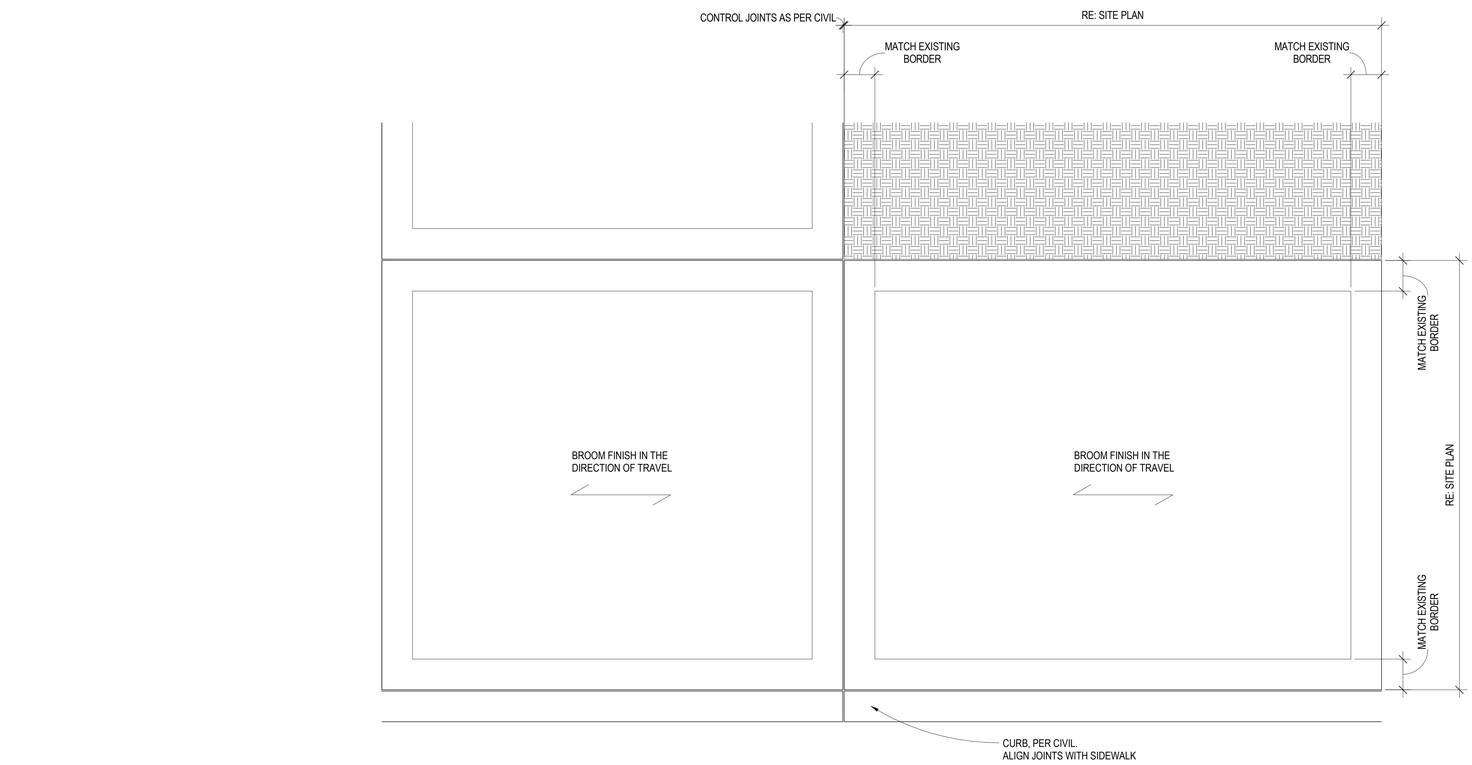
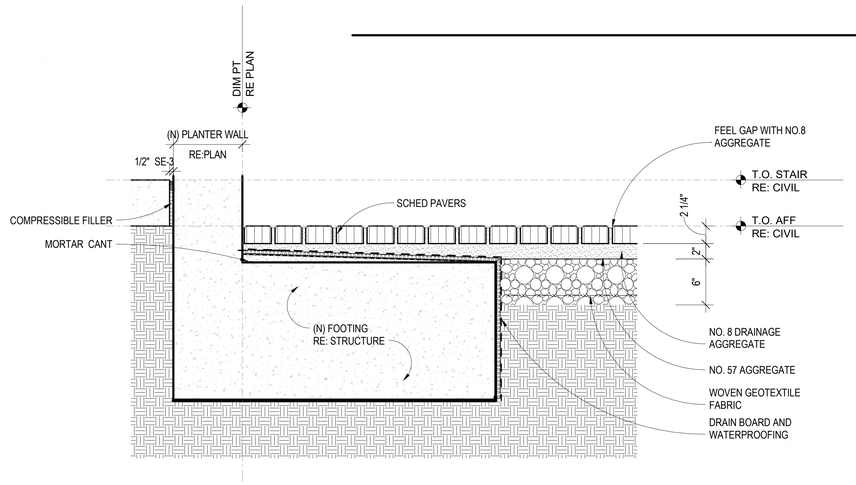
Scale: 1/4" = 1'-0"

Sheet No.: A120



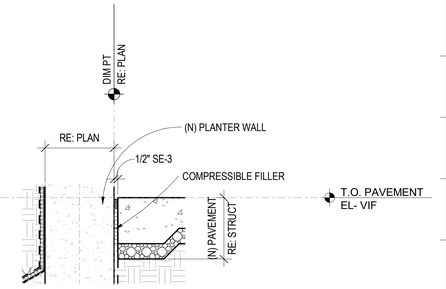
TYP. PAVING PANEL 02

SCALE: 1" = 1'-0"



DETAIL @WALL @ MULTIPURPOSE PATIO 11

SCALE: 1 1/2" = 1'-0"



SECTION @ B.OB. (N) PAVEMENT 01

SCALE: 1 1/2" = 1'-0"

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PAVING DETAILS

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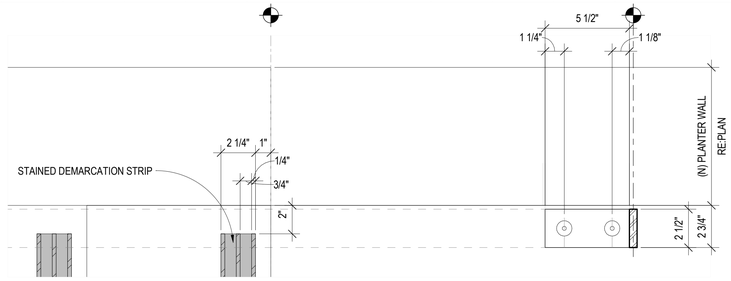
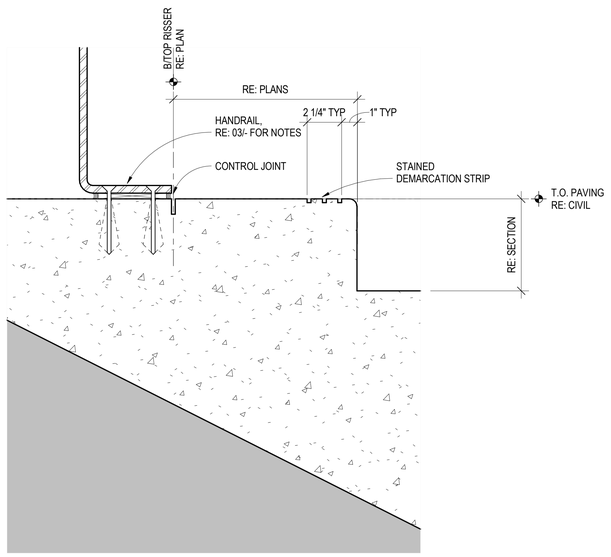


PLAN @ B.O. STAIR 05
SCALE: 3" = 1'-0"



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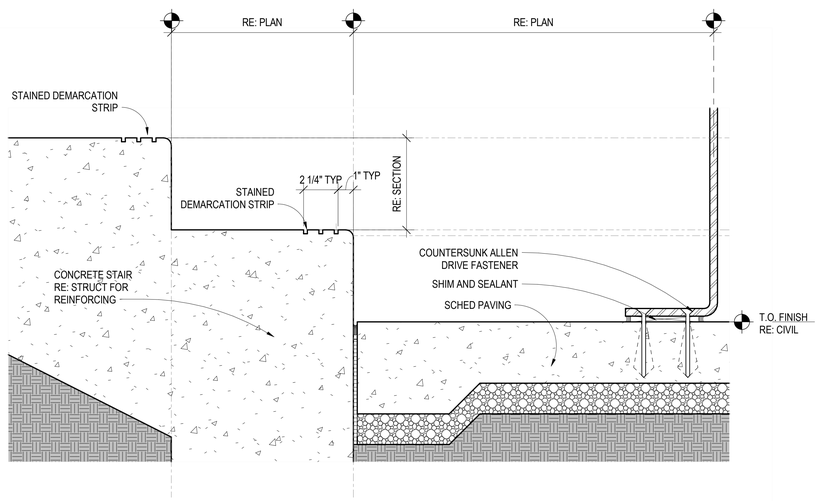

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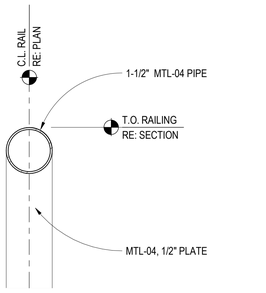

HNDRL DETAIL - TOP 17
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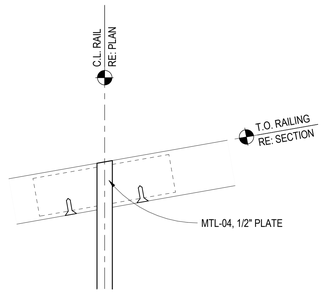

HNDRL @ VERT SUPPORT 12
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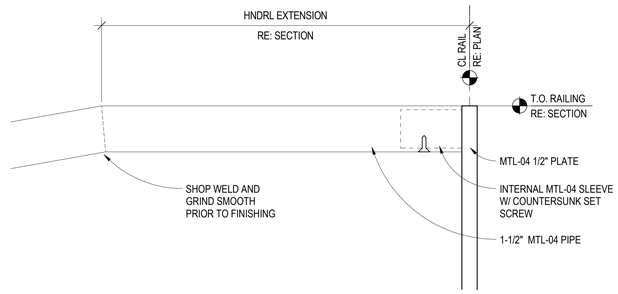

HNDRL @ TOP EXTENSION 02
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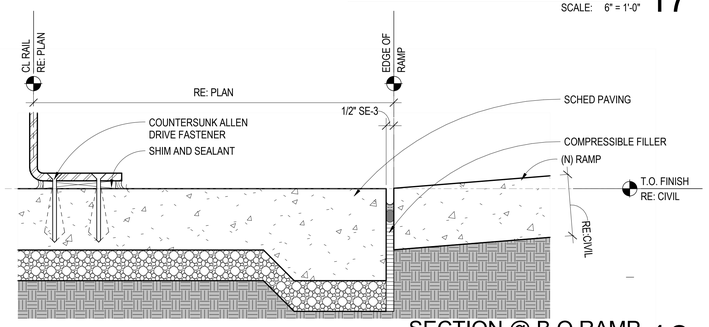

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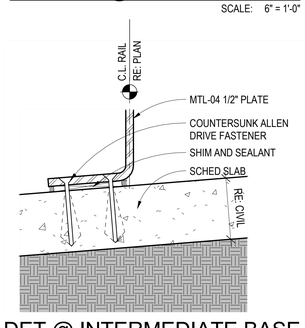

DET @ INTERMEDIATE BASE 11
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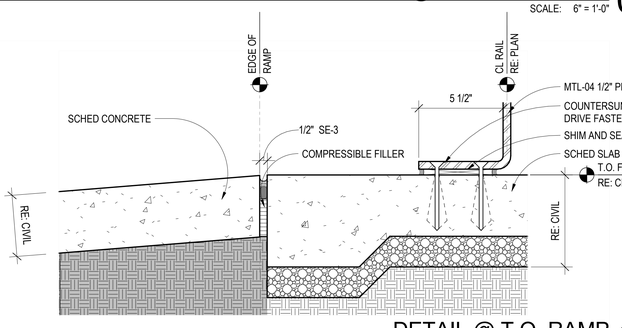

DETAIL @ T.O. RAMP 01
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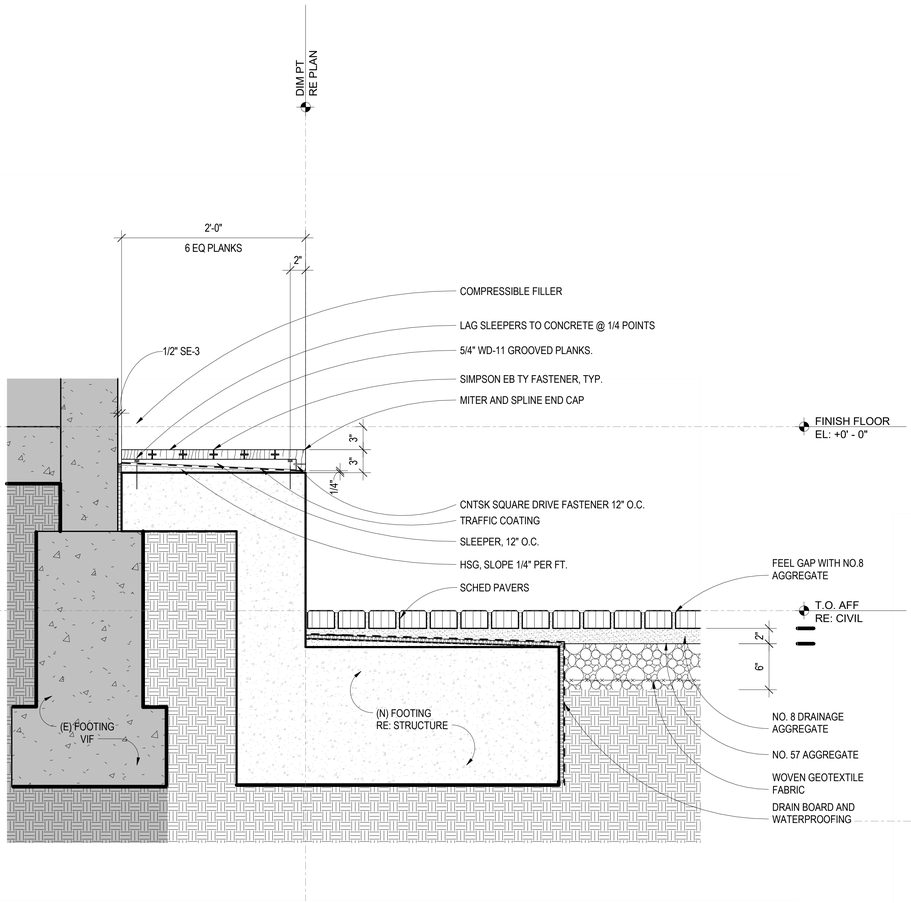

SECTION @ (N)PLINTH 06

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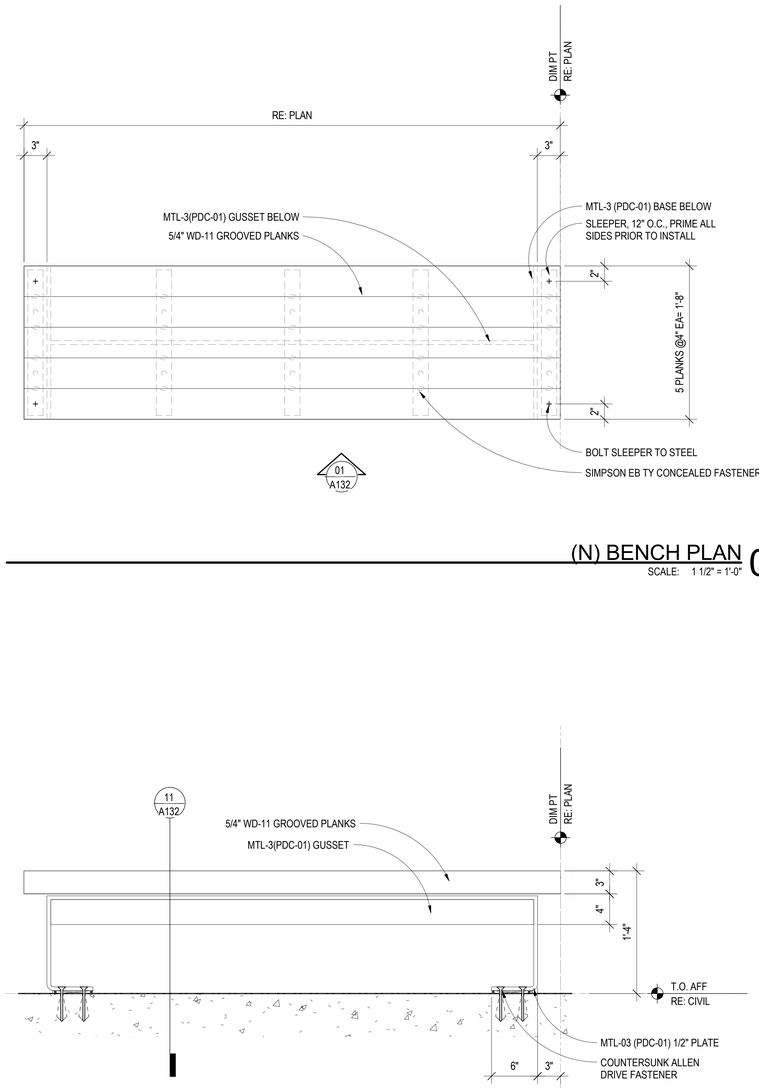
(N) BENCH SECTION 11

SCALE: 1 1/2" = 1'-0"



(N) BENCH ELEV 01

SCALE: 1 1/2" = 1'-0"

(N) BENCH PLAN 02

SCALE: 1 1/2" = 1'-0"

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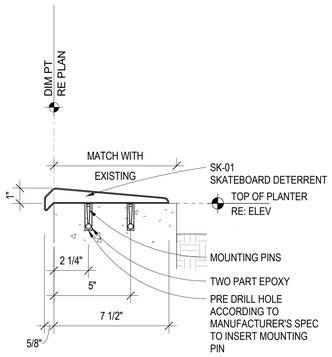

SK-01 @ CONC PLANTER 29
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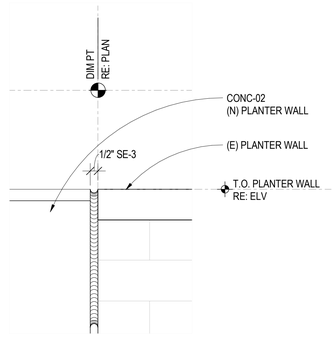

DETAIL @ T.O. PLANTAR WALL 19
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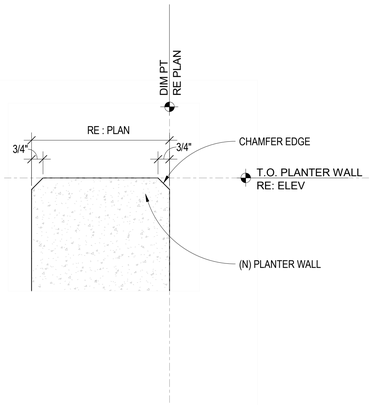

SECTION @ T.O. WALL @ MULTIPURPOSE PATIO 2
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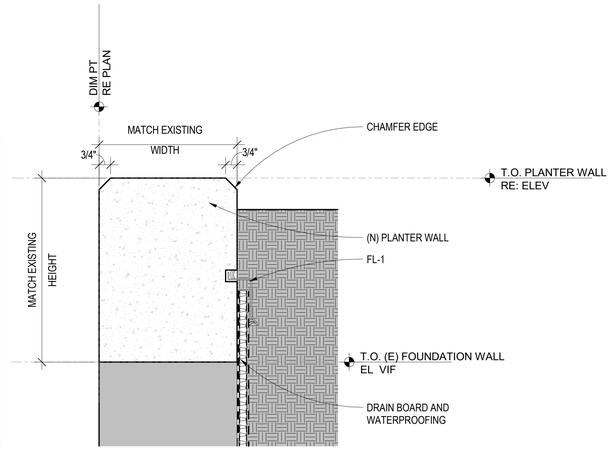

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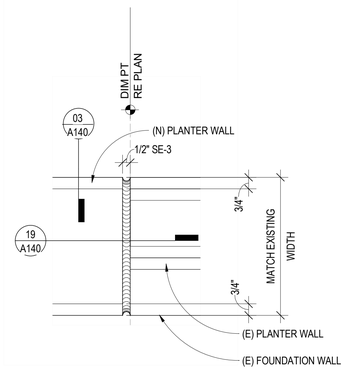

PLAN@ (N) & (E) PLANTER WALL 28
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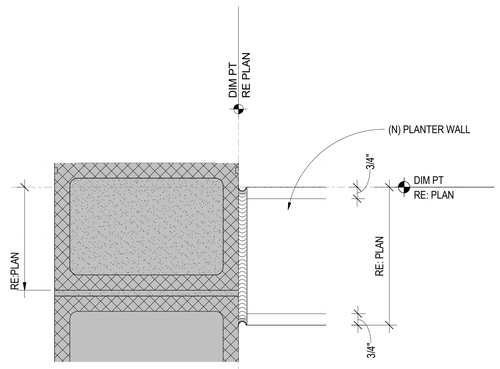

PLAN@ (N) PLANTER WALL 23
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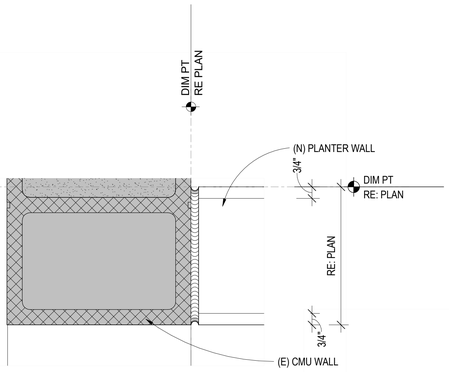

PLAN@ (N) PLANTER WALL AND (E) CMU WALL 13
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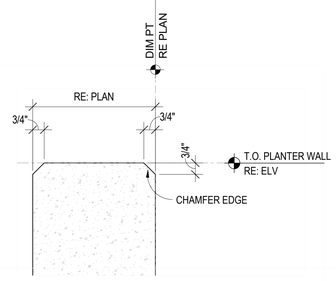

SECT @ T.O. (N) PLANTER WALL 03
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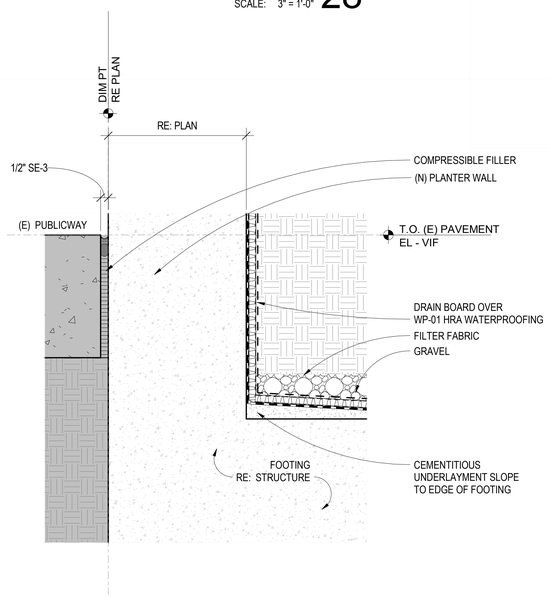

SECTION @ B.O. PLANTER WALL @ SIDEWALK 21
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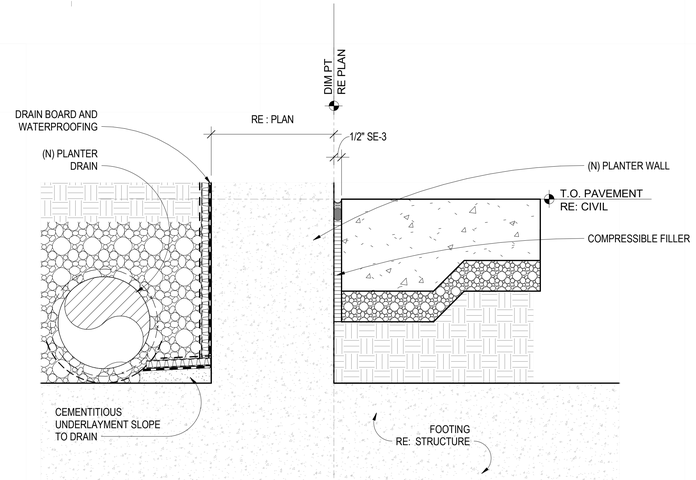

SECTION @ B.O. PLANTER WALL @ PAVING 11
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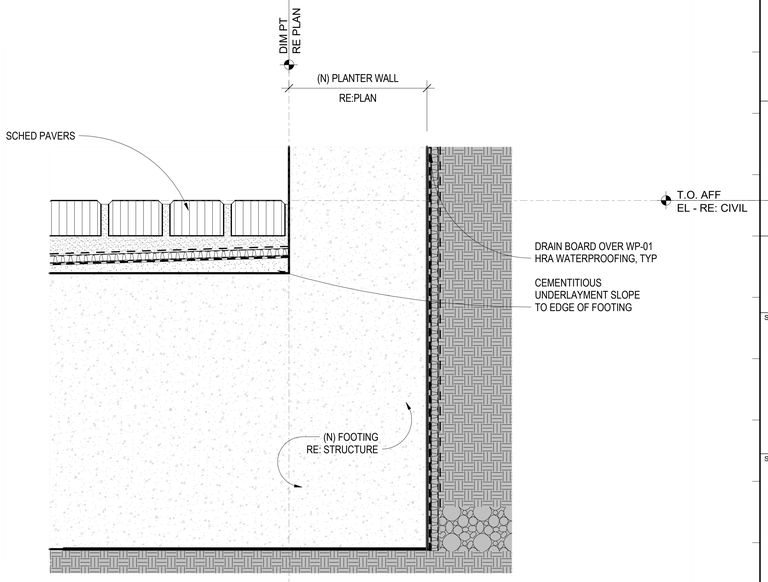

DETAIL @ PLANTAR WALL @ MULTIPURPOSE PATIO 01
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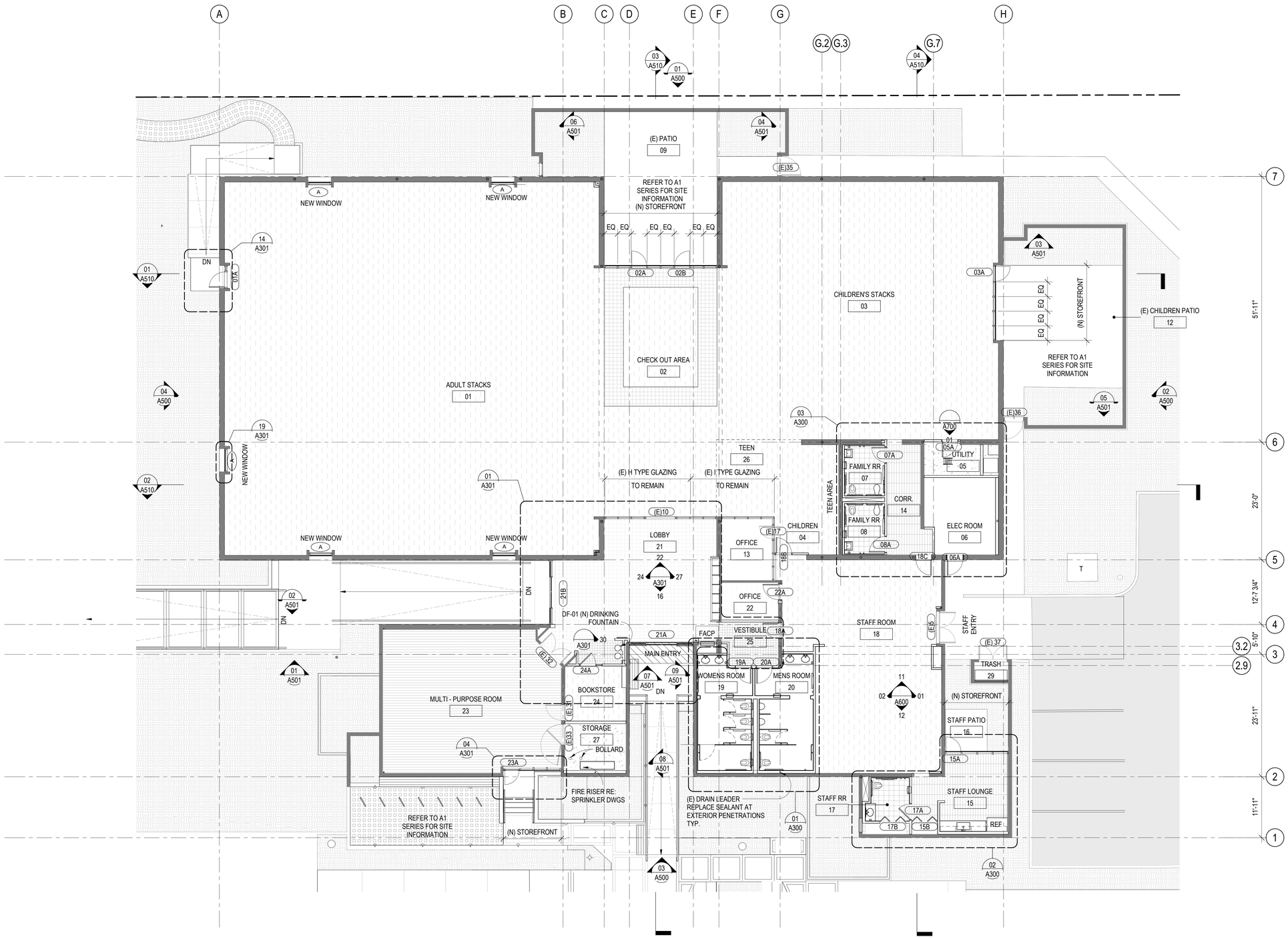

OVERALL FIRST FLOOR PLAN 01

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

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OVERALL FLOOR PLAN

Project No.:	Sheet No.:
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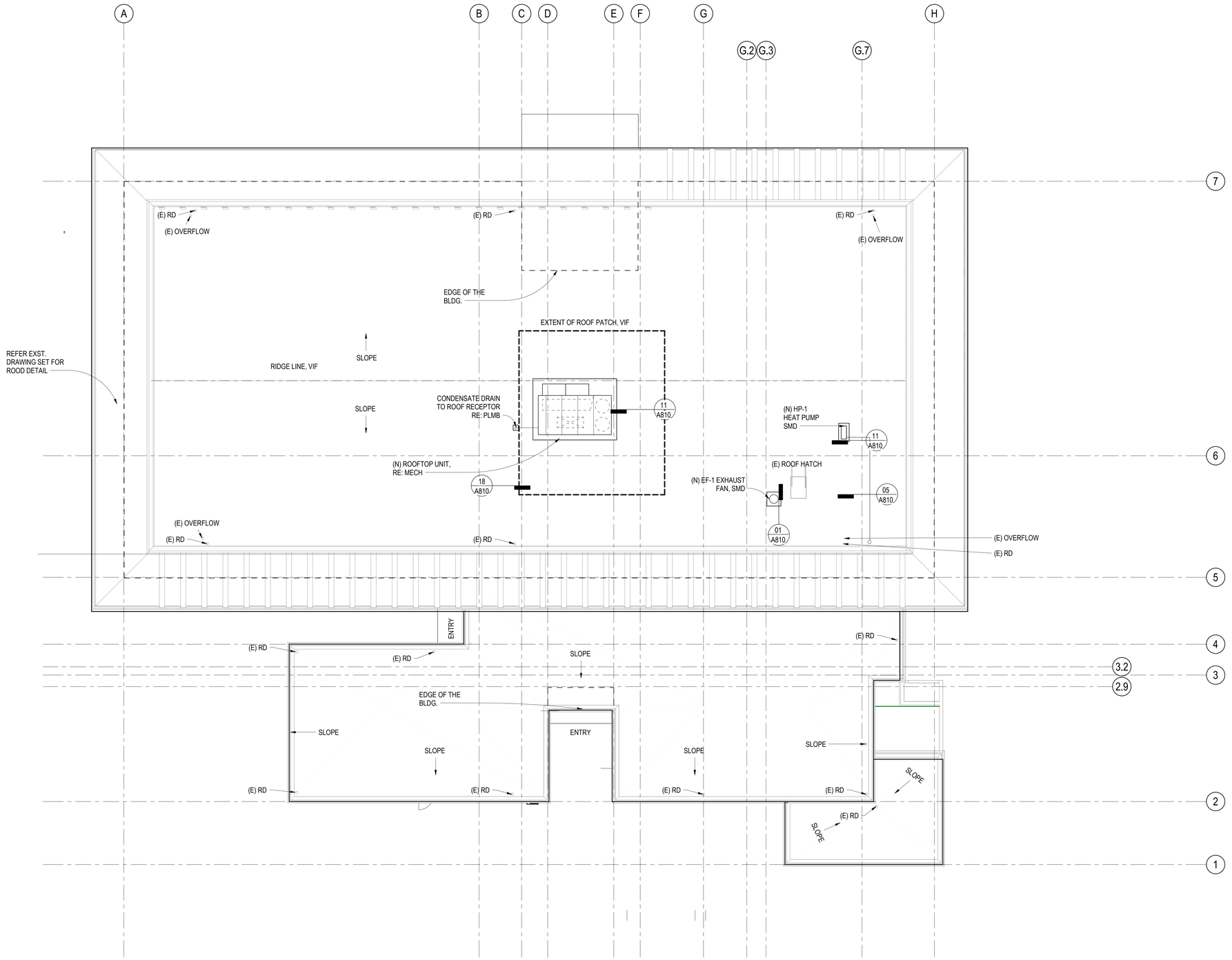

ROOF PLAN
SCALE: 1/8" = 1'-0" 01

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ROOF PLAN

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FINISH SCHEDULE						
NUMBER	ROOM	FLOOR FINISH	BASE FINISH	WALL FINISH	CEILING FINISH	COMMENTS
01	ADULT STACKS	EXISTING	EXISTING	PT-01	GWB, ACT-01,ACT-03	
02	CHECK OUT AREA	EXISTING	EXISTING	PT-01	GWB, ACT-01	
03	CHILDREN'S STACKS	EXISTING	EXISTING	PT-01	GWB, ACT-01,ACT-03	
04	CHILDREN	CPT-01		PT-01	ACT-01	
05	UTILITY	CONC-01		PT-01		
06	ELEC ROOM	CONC-01		PT-01		
07	FAMILY RR	TL-01		TL-02, PT-03	GWB	
08	FAMILY RR	TL-01		TL-02, PT-03	GWB	
14	CORR.	LVT-01		PT-01	GWB	
15	STAFF LOUNGE	LVT-01		PT-01	GWB	
16	STAFF PATIO	EXISTING		PT-01		
17	STAFF RR	TL-01		TL-02, PT-03	GWB	
18	STAFF ROOM	CONC-01		PT-01	ACT-01	
19	WOMENS ROOM	TL-01		PT-01	GWB	
20	MENS ROOM	TL-01		PT-01	GWB	
21	LOBBY	EXISTING		PT-01	GWB,ACT-01	
22	OFFICE	CPT-01		PT-01	ACT-01	
23	MULTI - PURPOSE ROOM	EXISTING		PT-01	GWB, ACT-01,ACT-03	
24	BOOKSTORE	CPT-01		PT-01	GWB,ACT	
25	VESTIBULE	CPT-01		PT-01	ACT	
26	TEEN	CPT-01		PT-01	ACT-01	
27	STORAGE	CONC-01		PT-01		
28	MEZZANINE	EXISTING				
29	TRASH	EXISTING		PT-01		

FINISH PLAN

- (E) FLOORING
- CONC-04
- CPT-1-CARPET
- TL-01 RESTROOM TILE
- LVT-1 RESILIENT FLOORING
- QT-01 QUARRY TILES
- INFILL DEPRESSION

SHEET NOTES:

1)REFER TO A003 FOR MATERIAL'S SCHEDULE

2) REFER TO APPENDIX A IN VOLUME 03 OF PROJECT MANUAL FOR MATERIAL PALLETE BOARDS. SUBMIT FINAL SAMPLES TO ARCHITECT AND AGENCY BASED ON AGENCY PREFERRED FINISH BOARD FOR RECORD.

3) PAINT ALL WALLS FROM FLOOR TO ROOF DECK U.O.N., WITH SOUND BATTING AND ACOUSTICAL SEALANT WHERE NOTED.

4) PROVIDE AND INSTALL 48" HIGH CORNER GUARDS ON WALLS AND COLUMNS.

5) REFER TO A9 SERIES FOR BACKING AND BLOCKING DETAILS. PROVIDE FOR ALL WALL MOUNTED EQUIPMENT AS SCHEDULED INCLUDING CUBICLE PARTITIONS SECURED TO WALLS.

6) FLOORS SHALL BE LEVEL WITH NO MARE THAN 3//16" DEVIATION OVER 10' AND 1/16" OVER 1' U.O.N., LEVEL FLOORS AS REQUIRED TO MEET CRITERIA AND MANUFACTURER'S RECOMMENDED INSTALLATION REQUIREMENTS.

7) WHERE RUBBER BASE INTERFACES WITH SMOOTH FLOORS PROVIDE COVED PROFILE. WHERE BASE INTERFACES WITH CARPET PROVIDE CUT PROFILE WITH NO TOE.

8) REFER TO A9 SERIES FOR ADDITIONAL DETAILING REQUIREMENTS

9) LEVEL SLAB AT ROOM 109/110 TO FF/FL 50.

FINISH PLAN
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POWER AND DATA LEGEND

- SINGLE RECEPTACLE OUTLET - WALL MOUNTED
- DUPLEX RECEPTACLE OUTLET - WALL MOUNTED
- DUPLEX RECEPTACLE OUTLET, ONE RECEPTACLE SWITCHED AND ONE RECEPTACLE CONSTANT
- QUADRAPLEX RECEPTACLE OUTLET - WALL MOUNTED
- SPECIAL RECEPTACLE OUTLET - WALL MOUNTED
- FLUSH MOUNTED RACEWAY AT 36" U.N.O.SEE PLAN FOR OUTLET QUANTITY AND LOCATION. OUTLETS AT SINK AREAS TO BE GFCI.
- DC — DOOR CONTACT
- W — WALL PHONE
- FB — SURFACE FLOOR BOX WITH DUPLEX RECEPTACLE AND 1 DATA JACKS
- FB2 — SURFACE FLOOR BOX WITH QUDRAPLEX RECEPTACLE AND 2 DATA JACKS
- TV — FLUSH FLOOR BOX WITH CABLE TV
- CAMERA (+ - 270 DEGREE CAMERA*)
- NVR — NETWORK VIDEO RECORDER
- VSS — VSS WORKSTATION
- DB — DURESS BUTTON
- M — MOTION DETECTOR
- C P — IDS CONTROL PANEL
- DATA JACK - REFER TO COMMUNICATION DRAWINGS FOR JACK SPECIFICATION

SYMBOL SUBSCRIPTS:

D	- DEDICATED CIRCUIT
EM	- EMERGENCY CIRCUIT
EP	- EXPLOSION PROOF
GFCI	WITH GROUND FAULT CIRCUIT INTERRUPTER
IG	ISOLATED GROUND
FP	FINGER PRINTING DEVICE
WP	WEATHERPROOF TYPE
XXmm	MOUNTAING HEIGHT
TS	TECHNICAL SECURITY

- CATV — FLUSH TRIPLE-GANG BOX (+60" AFF) FOR DUPLEX POWER AND DATA AND COAX JACKS PER COMMUNICATION/AV CONSULTANT DRAWINGS
- J — RECESSED JUNCTION BOX - WALL MOUNTED
- J — FLUSH MOUNTED FLOOR ELECTRICAL JUNCTION BOX
- AV — WALL MOUNTED AUDIO/VISUAL JUNCTION BOX, RE: A/V DRAWINGS
- PAM — PERSONNEL AUTHENTICATION MODULE
- SS — POE SURGE PROTECTOR
- FP J — RECESSED ELECTRICAL JUNCTION BOX - WALL MOUNTED WITH WHIP CONNECTION TO FURNITURE ELECTRIFIED PANELS
- FP LV — RECESSED LOW VOLTAGE JUNCTION BOX - WALL MOUNTED WITH WHIP CONNECTION TO FURNITURE ELECTRIFIED PANELS
- ES — ELECTRICAL STRIKE
- KP — IDS KEYPAD

FLUSH WALL MOUNTED LIGHTING CONTROLS

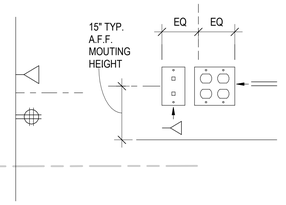
- $ — ON/OFF SWITCH
- ϕ — DIMMING SWITCH
- IM — INTERCOM MASTER
- COAX TERMINATION FOR SECURITY MONITOR
- IR — WALL MOUNTED OUTLET FOR HEARING IMPAIRED TRANSMITTER REFER TO T-SERIES DRAWINGS
- CALL BUTTON

SYMBOL SUBSCRIPTS

R - RECEPTION CALL BUTTON
N - NURSE CALL BUTTON

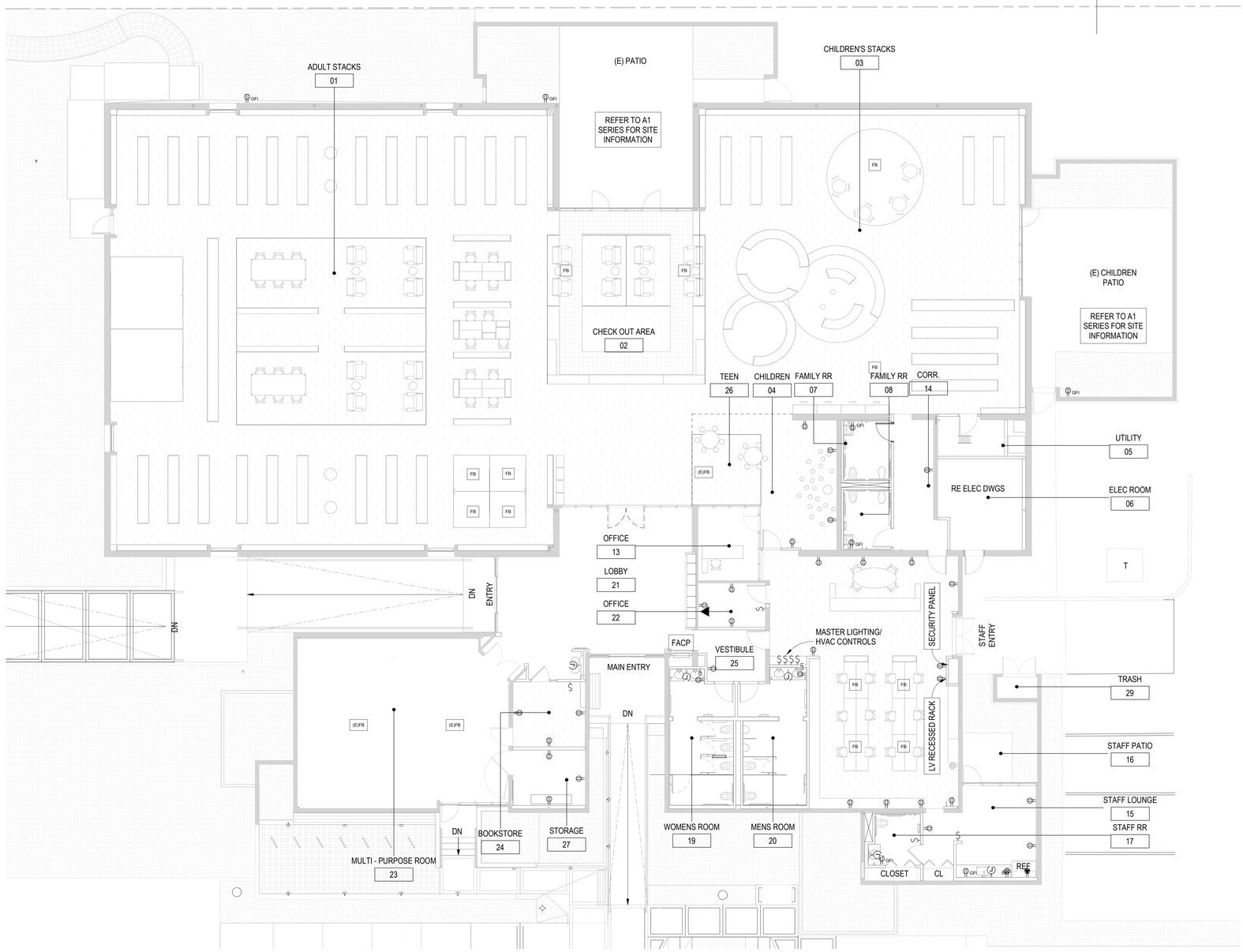
- LCD1 — LCD AT WAITING AREA; REFER TO A/V DWGS.
- LCD2 — LCD ABOVE TELLER WINDOW; REFER TO A/V DWGS
- T — THERMOSTAT
- M — WALL MOUNTED DOOR MAGNETIC HOLD OPEN
- CR — CARD READER
- LCD — LCD MONITOR W/ DECODER
- KVM — KEYBOARD, VIDEO AND MOUSE
- ACM — ACCESS CONTROL PANEL
- ACW — ACCESS CONTROL WORKSTATION
- PP — POWER POLE - ABOVE CEILING JUNCTION BOXES FOR POWER AND DATA CONNECTION TO ELECTRIFIED FURNITURE PANELS
- UPS — UNINTERRUPTED POWER SUPPLY
- DE — DELAYED EGRESS

OUTLET AND CLUSTER LEGEND



SHEET NOTES:

1) REFER TO ELECTRICAL AND LOW VOLTAGE DRAWINGS FOR ADDITIONAL INFORMATION



POWER AND DATA PLAN

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

01

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No.	Description:	Date:
	100% SCHEMATIC DESIGN	11 OCT 2024
	100% DESIGN DEVELOPMENT	22 NOV 2024
	60% CONSTRUCTION DOCUMENT	07 MAR 2025
	ISSUED FOR PERMIT	20 MAR 2025
	90% CONSTRUCTION DOCUMENT	08 AUG 2025
	ISSUED FOR PERMIT REVISION 1	08 AUG 2025
	ISSUED FOR BID	13 OCT 2025

North Sign

Seal & Signature:

LICENSED ARCHITECT
JEFFREY MILLER
C-37366
01/31/2027
RENEWAL
STATE OF CALIFORNIA

Sheet Name:

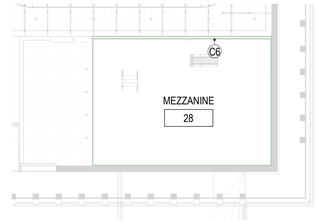
POWER AND DATA PLAN

Project No.:	Sheet No.:
24.05	A220
Drawn By: Author	
Checked By: Checker	
Scale: As indicated	

10/13/2025 10:16:56 AM

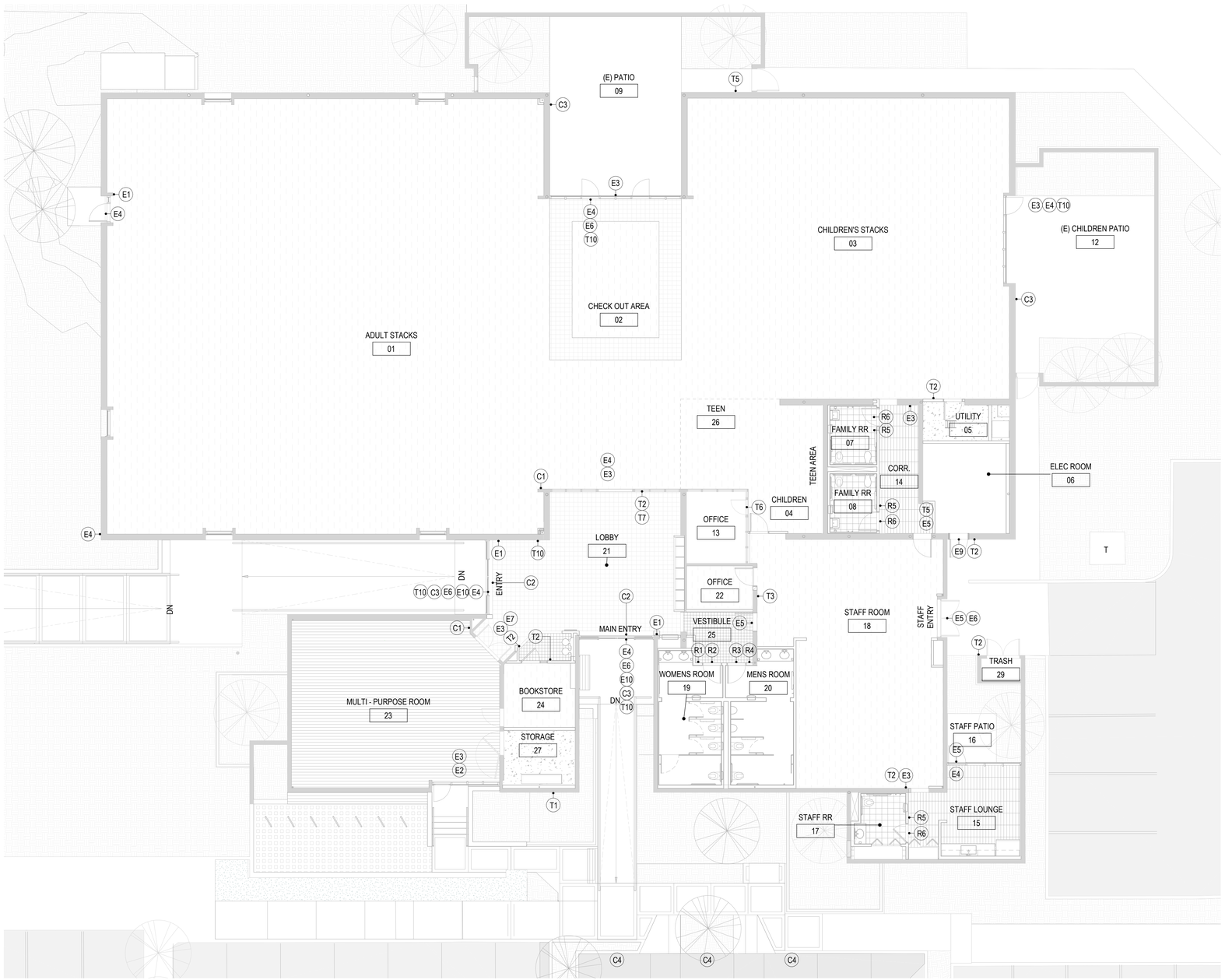
SIGN TYPE LEGEND				
TYPE	DESCRIPTION	MATERIAL	CFCI	GFCI
C1	MAX OCCUPANCY	ACRYLIC	X	
C2	"DOOR TO REMAIN UNLOCKED"	VINYL CUTOUT	X	
C3	NO SMOKING	VINYL	X	
C4	ACCESSIBLE PARKING	METAL	X	
C5	FDC PRESSURE	METAL	X	
C6	MAX ALLOWABLE LOAD 20PSF	METAL	X	
C7	NO PARKING	METAL	X	
C8	FACP INSIDE	ACRYLIC	X	
E1	EXIT	ACRYLIC	X	
E2	EXIT STAIR DOWN/UP	ACRYLIC	X	
E3	EXIT ROUTE	ACRYLIC	X	
E4	ACCESIBLE ROUTE	ACRYLIC	X	
E5	EMPLOYEE ONLY	VINYL	X	
E6	ACCESIBLE SYMBOL	ACRYLIC	X	
E7	ASSISTIVE LISTENING	VINYL CUTOUT	X	
E8	EMERGENCY EXIT/ ALARM	ACRYLIC	X	
E9	DO NOT BLOCK DOORS	ACRYLIC		

SIGN TYPE LEGEND				
TYPE	DESCRIPTION	MATERIAL	CFCI	GFCI
R1	WOMEN'S ROOM	ACRYLIC	X	
R2	WOMEN'S ROOM CIRCLE	ACRYLIC	X	
R3	MEN'S ROOM	ACRYLIC	X	
R4	MEN'S ROOM TRIANGLE	ACRYLIC	X	
R5	GENDER NEUTRAL RESTROOM	ACRYLIC	X	
R6	GENDER NEUTRAL TRIANGLE/CIRCLE	ACRYLIC	X	
T1	BUILDING IDENTITY SIGNAGE	TBD	X	
T2	ROOM ID SIGN	ACRYLIC	X	
T3	ROOM ID W/IN USE	TBD	X	
T4	BUSINESS HOURS	TBD		X
T5	NOT AN EXIT	TBD	X	
T6	OFFICE ID W/ NAME	TBD	X	
T7	CHECK -IN	TBD	X	
T8	DIRECTIONS TO CHECK-IN	TBD	X	
T9	CART STORAGE AREA	TBD	X	
T10	YOU ARE ON CAMERA	TBD	X	



MEZZANINE SIGNAGE PLAN 10

SCALE: 3/32" = 1'-0"



SIGNAGE PLAN 01

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

GENERAL NOTES

1. SIGN MESSAGE SCHEDULE: TYPICAL LAYOUTS SHOWN IN DRAWING PACKAGE, ALL MESSAGES IN LAYOUTS ARE FOR SCALE INFORMATION ONLY. SUBMIT MESSAGE SCHEDULE FOR ARCHITECT AND AGENCY REVIEW PRIOR TO FABRICATION

2. CONTRACTOR IS SOLELY RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. FABRICATOR SHALL RECEIVE SIGNED APPROVAL BY ALL RELEVANT AUTHORITIES PRIOR TO FABRICATION.

3. APPLICABLE CODES AND STANDARDS CODE REQUIREMENTS ARE TO COMPLY WITH CURRENT UTAH CODES NOTED ON COVER SHEET

4. PROVIDE ALL WORK AND MATERIALS IN ACCORDANCE WITH THE LATEST RULES AND REGULATIONS OF ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES, LAWS AND STATUTES.

5. CODE COMPLIANCE: COLOR AND CONTRAST ADAAG A4.30.5 FINISH AND CONTRAST

6. ANY REQUEST FOR SUBSTITUTION OR PRESUMED "EQUAL" SHALL BE SUBMITTED IN WRITING FOR REVIEW IN COMPLIANCE WITH THE SPECIFICATION SECTION NUMBER AND SHALL NOT BE PURCHASED OR INSTALLED WITHOUT ARCHITECT'S APPROVAL

7. ALL DESIGN DOCUMENTS ARE COMPLEMENTARY, AND WHAT IS CALLED FOR BY ANY, WILL BE AS BINDING AS IF CALLED FOR BY ALL. ANY WORK SHOWN OR REFERRED TO ON ANY DESIGN DOCUMENTS SHALL BE PROVIDED AS THOUGH ON ALL RELATED DOCUMENTS.

8. THE DESIGN DOCUMENTS ARE PROVIDED TO ILLUSTRATE THE DESIGN AND GENERAL TYPE OF FABRICATION, MATERIAL AND WORKMANSHIP THROUGHOUT. THE DOCUMENTS DO NOT ILLUSTRATE EVERY CONDITION. THE CONTRACTOR AND/OR FABRICATOR, IN ASSUMING RESPONSIBILITY FOR WORK INDICATED, SHALL COMPLY WITH THE SPIRIT AS WELL AS THE LETTER IN WHICH THEY WERE WRITTEN.

9. THE FABRICATOR SHALL BE RESPONSIBLE FOR CORRECTION OF WORK AT THEIR OWN EXPENSE FOR WORK INSTALLED IN CONFLICT WITH THE DESIGN DOCUMENTS.

10. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE DEVELOPMENT, COORDINATION AND EXECUTION CONSTRUCTION METHODS AND PROCEDURES INCLUDING COORDINATION WITH OTHER DISCIPLINES SUCH AS ELECTRICAL AND STRUCTURAL WHERE REQUIRED.

11. FABRICATOR / CONTRACTOR SHALL NOT SCALE DRAWINGS. ALL DIMENSIONS ARE TO BE FIELD VERIFIED PRIOR TO FABRICATION AND INSTALLATION OF WORK.

12.

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	ISSUED FOR BID	13 OCT 2025

North Sign

Seal & Signature:

LICENSED ARCHITECT
JEFFREY MILLER
C-37366
01/31/2027
RENEWAL DATE
STATE OF CALIFORNIA

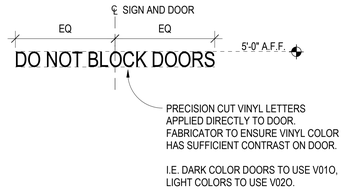
Sheet Name:
SIGNAGE PLAN

Project No.:	Sheet No.:
24.05	A230
Drawn By: Author	
Checked By: Checker	
Scale: As indicated	

10/13/2025 10:16:58 AM

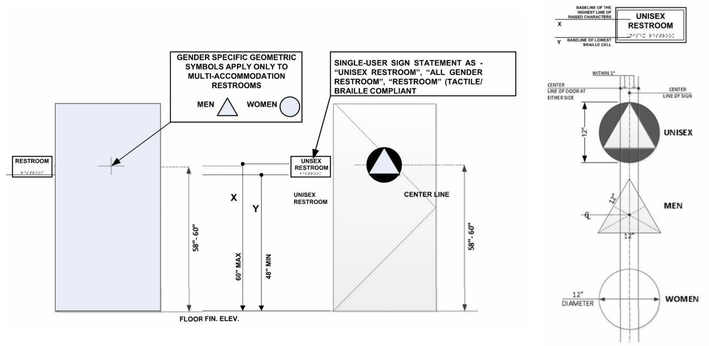
E7 ASSISTIVE LISTENING 15

SCALE: 3/8" = 1'-0"



SIGN E9 - DO NOT BLOCK DOORS 14A

SCALE: 6" = 1'-0"



SIGN R - TYPICAL RESTROOM SIGNS 04

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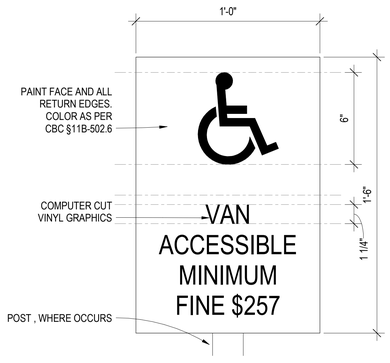
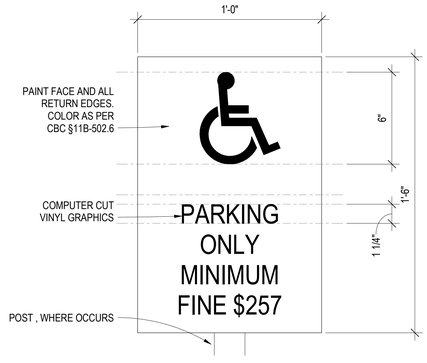


SIGN C4- ALT LAYOUT @ VAN SPACE 5

SCALE: 3" = 1'-0"



SIGN C4- @ ACCESSIBLE PARKING 6

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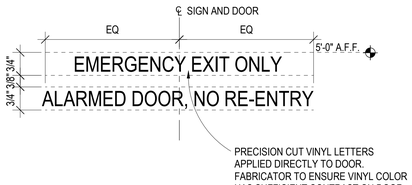

SIGN E8 - TWO LINE 14B

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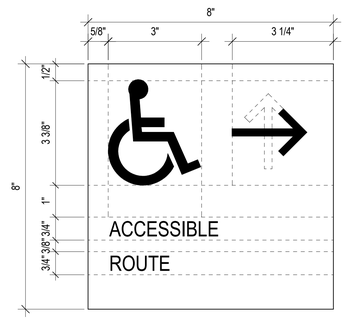

SIGN E4 - ACCESSIBLE ROUTE 13B

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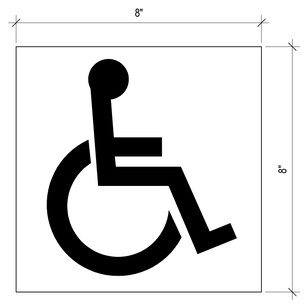

SIGN E6 - ACCESSIBLE SYMBOL 13A

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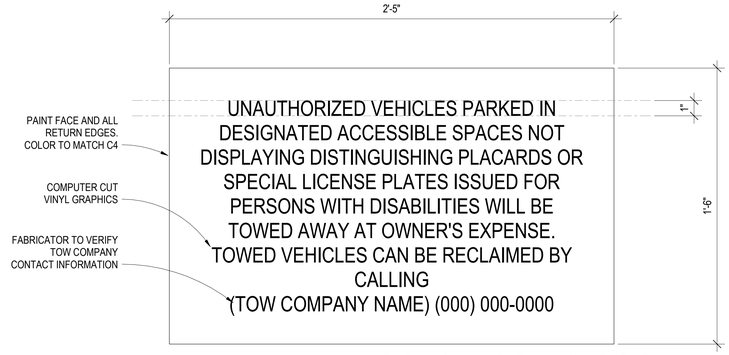

SIGN C7- NO PARKING SIGN 03

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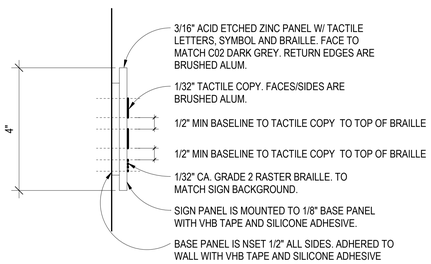

TYP. TWO LINE SECTION 22

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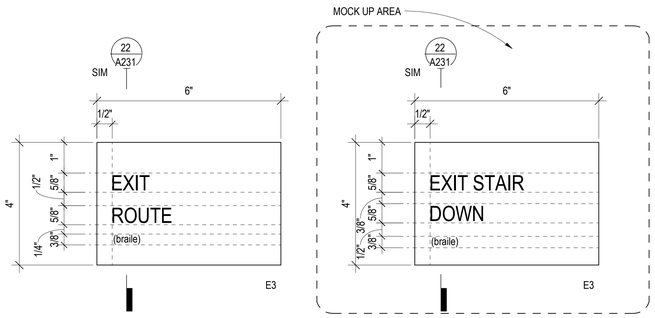

SIGN SIGN T,R,E- TWO-LINE LAYOUT 12

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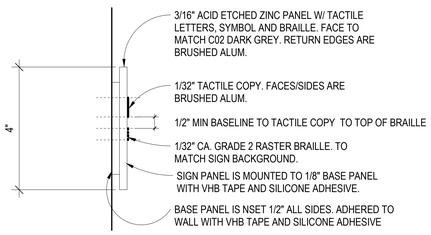

TYP. ONE LINE SECTION 21

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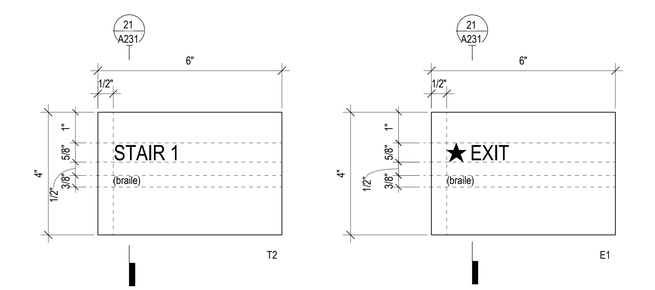


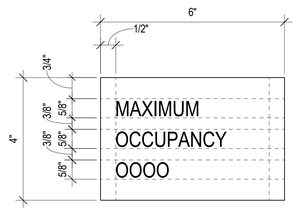
SIGN T,R,E- ONE-LINE LAYOUT 11

SCALE: 6" = 1'-0"

No Smoking within 25 ft from All Entries, Outdoor Air Intakes, and Operable Windows.

SIGN C3- NO SMOKING 02

SCALE: 1" = 1'-0"



SIGN C1- INFORMATION LAYOUT 01

SCALE: 6" = 1'-0"

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	90% CONSTRUCTION DOCUMENT	08 AUG 2025
	ISSUED FOR PERMIT REVISION 1	08 AUG 2025
	ISSUED FOR BID	13 OCT 2025

Seal & Signature:

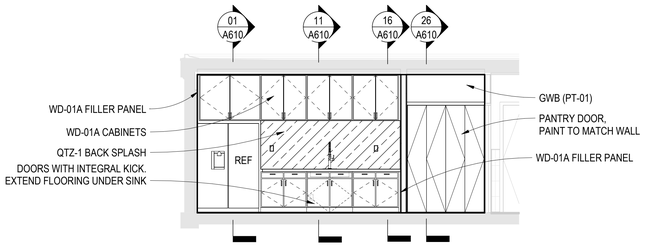
LICENSED ARCHITECT JEFFREY MILLER C-37366 01/31/2027 RENEWAL DATE STATE OF CALIFORNIA

Sheet Name:

SIGNAGE DETAILS

Project No.:	24.05	Sheet No.:
Drawn By:	Author	A231
Checked By:	Checker	
Scale:	As indicated	

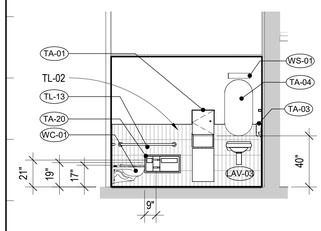
10/13/2025 10:16:59 AM



STAFF LOUNGE 15 - ELV 14
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

1. THE HEIGHT DIMENSIONS FOR WATER CLOSET AND ASSOCIATED COMPONENTS SHOWN ON CHILDREN RESTROOM INTERIOR ELEVATIONS ARE FOR ADULT'S USE.
2. REFERENCE SECTION 11B-604.9.1 THROUGH SECTION 11B.604.9.7 FOR ADDITIONAL REQUIREMENTS.



FAMILY RR 07 - W ELEV 15
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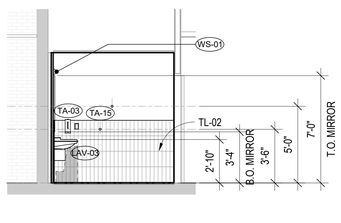

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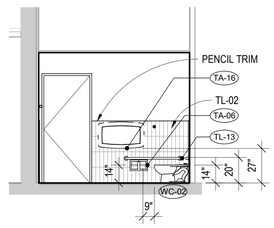

FAMILY RR 07 - E ELEV 19
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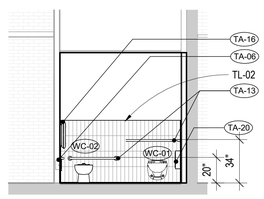

FAMILY RR 07 -S ELV 20
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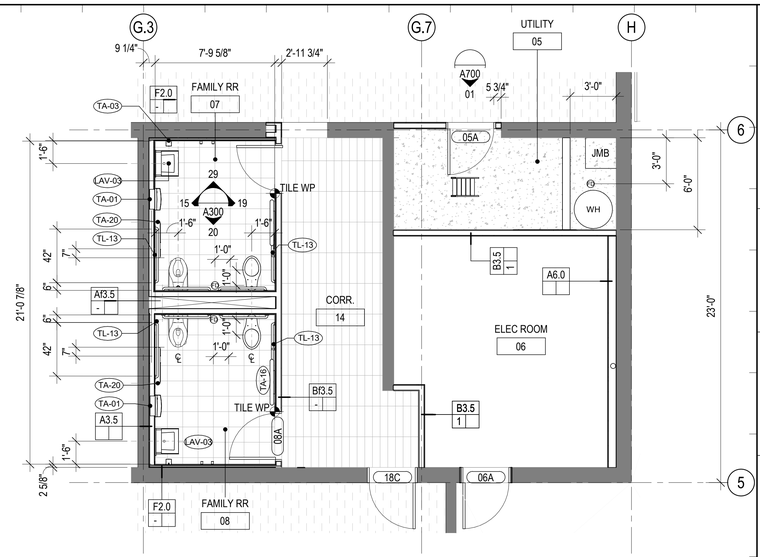

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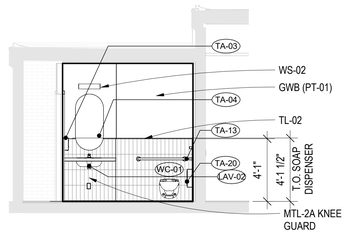

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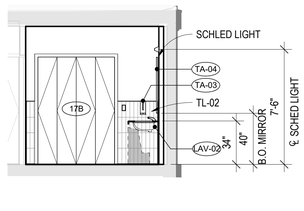

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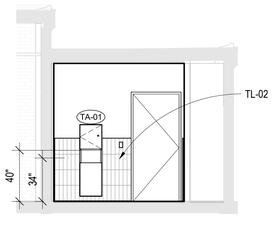

STAFF RR 08 - E ELEV 18
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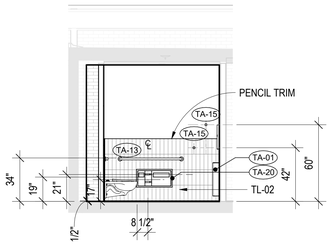

STAFF RR 08 - N ELEV 13
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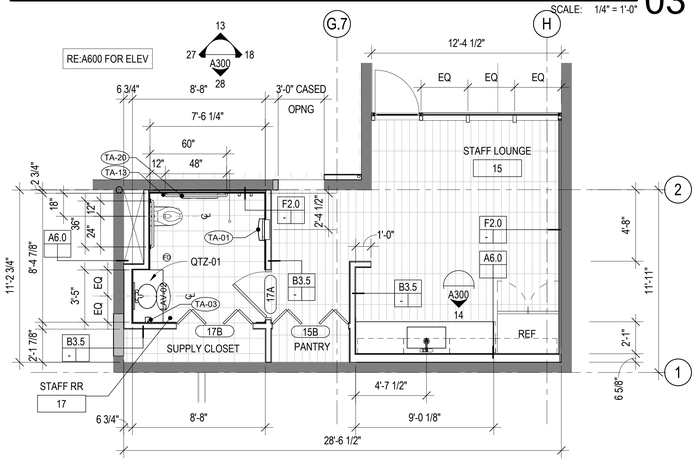

STAFF RESTROOM 02
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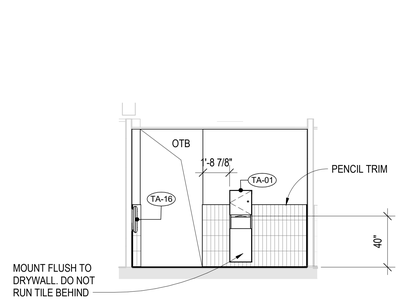
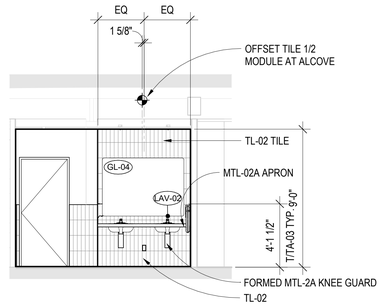


MENS ROOM 20 - ELV 12
SCALE: 1/4" = 1'-0"



MENS ROOM 20 - NORTH ELV 17
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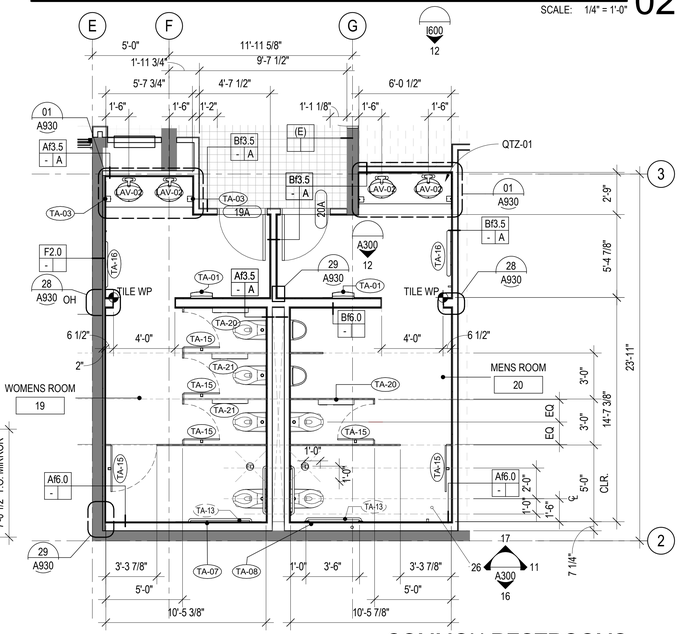

COMMON RESTROOMS 01
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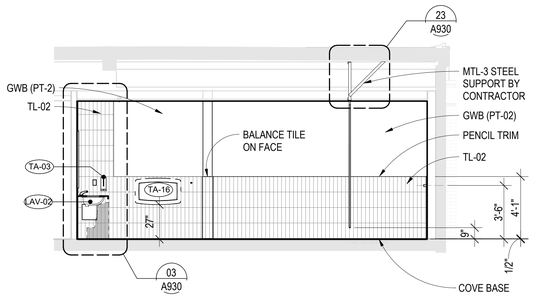
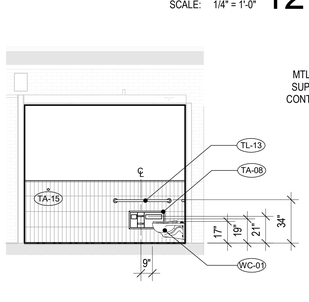


MENS ROOM 20 - EAST ELV 11
SCALE: 1/4" = 1'-0"



MENS ROOM 20 - SOUTH ELV 16
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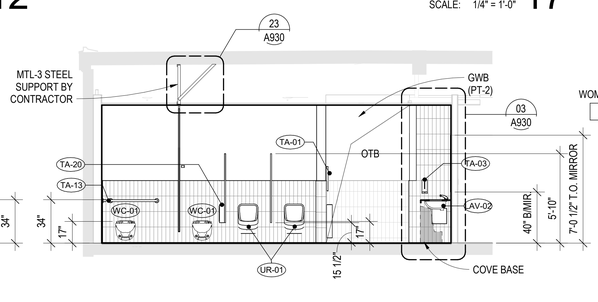

MENS ROOM 20 - WEST ELV 26
SCALE: 1/4" = 1'-0"

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Sheet Name:
ENLARGED PLANS AND ELEVATION

Project No.: 24.05
Drawn By: Author
Checked By: Checker
Scale: 1/4" = 1'-0"

Sheet No.: A300

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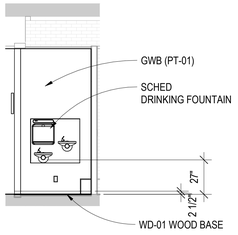

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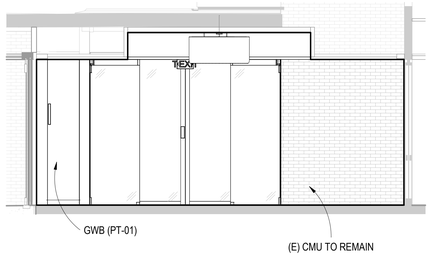

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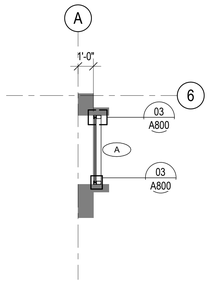

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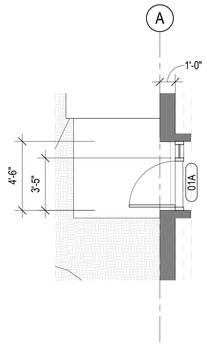

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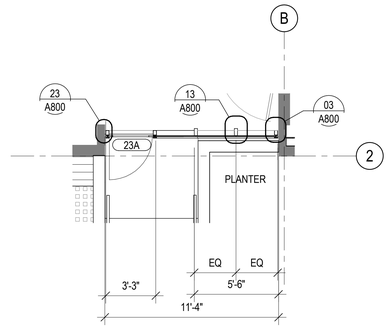

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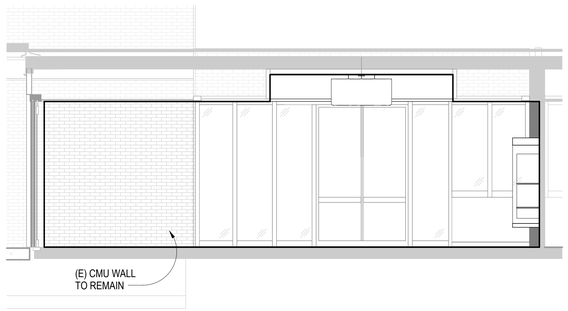

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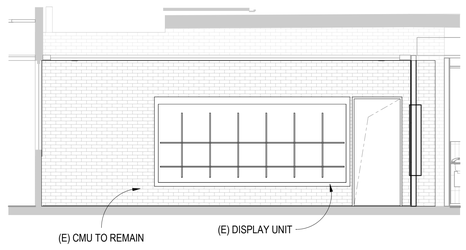

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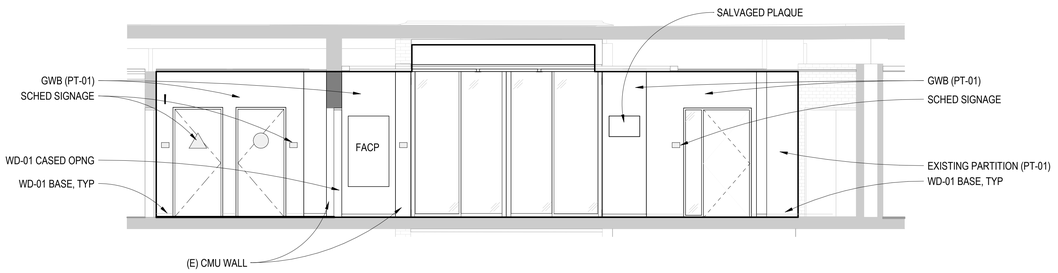

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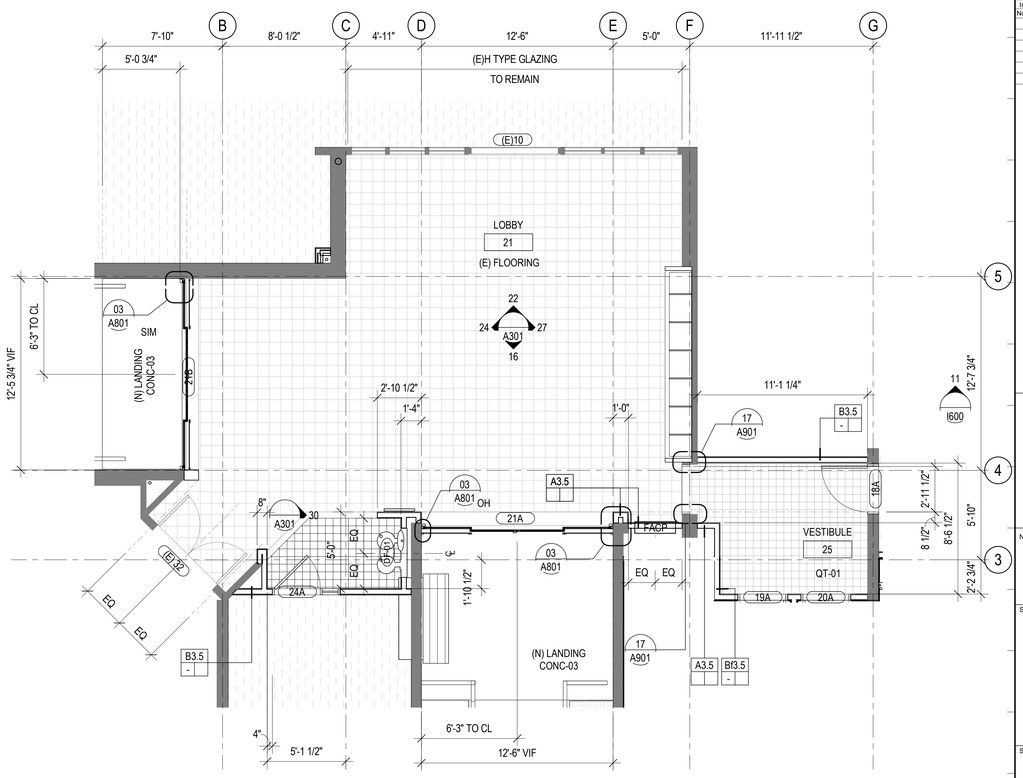

ENLARGED ENTRY LOBBY PLAN 01
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C-37366
01/31/2027
RENEWAL DATE
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Sheet Name:
ENLARGED PLANS

Project No.: 24.05
Drawn By: Author
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Sheet No.: A301

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RCP LEGEND

- SUPPLY AIR GRILLE
- EXHAUST AIR GRILLE
- RETURN GRILLE
- SLOT DIFFUSER
- EXIT SIGN
- RECESSED CAN LIGHT
- SUSPENDED CAN LIGHT
- DIRECTIONAL RECESSED CAN LIGHT
- PENDANT LIGHT
- RECESSED RECTANGULAR LIGHT
- PENDANT RECTANGULAR LIGHT
- SPRINKLER HEAD
- WALL SCONE
- COVE LIGHT
- STRIP LIGHT

INTEGRATED SYSTEM LEGEND

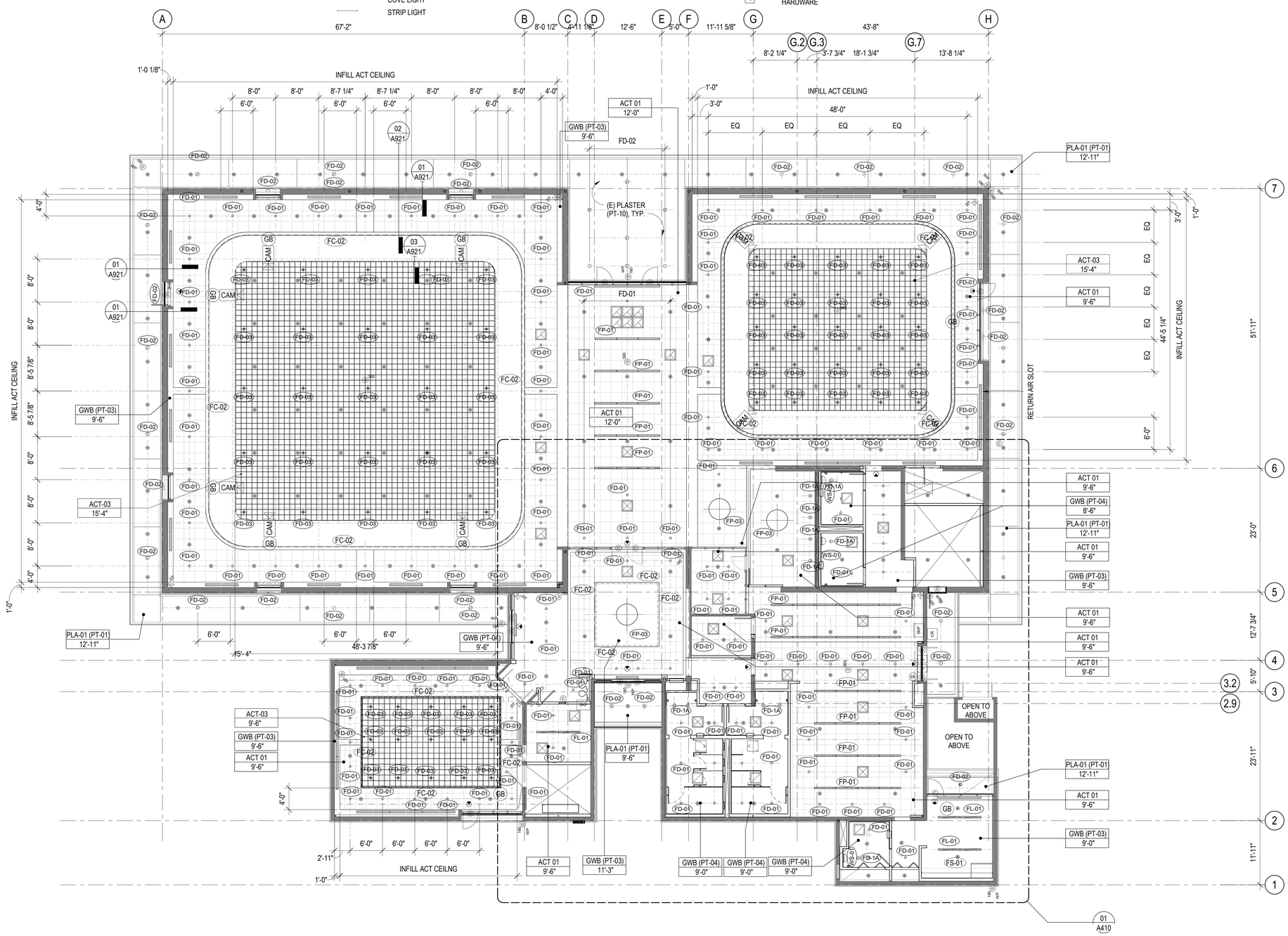
- SCP — SECURITY CONTROL PANEL
- ACM — ACCESS CONTROL PANEL
- APS — ACCESS CONTROL POWER SUPPLY
- LPS — DOOR LOOK POWER SUPPLY
- SKP — SECURITY SYSTEM KEYPAD
- DT — DUAL - TECHNOLOGY MOTION SENSOR
- REX — REQUEST TO EXIT MOTION SENSOR
- C — DOOR POSITION SWITCH
- CR — ACCESS CONTROL CARD READER
- L — ELECTRIFIED DOOR LOCKING HARDWARE
- D — INTERIOR CAMERA WITH 180 DEGREE FIELD OF VIEW
- D 360 — INTERIOR DOME CAMERA WITH 360 DEGREE FIELD OF VIEW
- D 180 WP — EXTERIOR DOME CAMERA WITH 180 DEGREE FIELD OF VIEW
- GB — GLASS BREAK SENSOR
- CAM — BULLET CAMERA

SHEET NOTES:

1) LOCATIONS OF EXISTING DEVICES ARE APPROXIMATED FROM DESIGN DRAWINGS DATED OCT 1, 1971. CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS PRIOR TO COMMENCING WORK.

2) ALL LIGHTS ARE TO BE REPLACED WITH LED.

3) REFER TO A401 FOR LIGHTING SCHEDULE



REFLECTED CEILING PLAN

SCALE: 1/8" = 1'-0" 01

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Sheet Name:

REFLECTED CEILING PLAN

Project No.:	Sheet No.:
24.05	A400
Drawn By: Author	
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LIGHTING SCHEDULE

	DESCRIPTION	IMAGE	LOCATION	MANUFACTURER	PART NUMBER	MOUNTING	FINISH NOTE	CCT	WATTAGE	LUMENS	DIMMING	VOLTAGE	LINK	NOTE
FD-01	RECESSED DOWNLIGHT - TRIMLESS - WIDE FLOOD		GENERAL	FOCAL POINT	**ID+3.5"**	RECESSED	WHITE	3500K	17W	1,484	0-10V	UNV	CUTSHEET	TUNABLE WHITE
FD-01A	RECESSED WALLWASHER - TRIMLESS - WIDEFLOOD		RESTROOMS	FOCAL POINT	**ID+3.5"**	RECESSED	TBD	3500K	19W	1,516	0-10V	UNV	CUTSHEET	TUNABLE WHITE
FD-02	RECESSED DOWNLIGHT - TRIMLESS EXTERIOR		EXTERIOR SOFFIT	FOCAL POINT	**ID+3.5"**	RECESSED	WHITE	3500K	10W	919LM	0-10V	UNV	CUTSHEET	RECESSED WITH TRIMLESS PLASTER RING
FD-03	SUSPENDED CYLINDER WALLWASHER-WIDEFLOOD		ADULT READING AREA	FOCAL POINT	**ID+ 3.5" WIDE FLOOD**	SUSPENDED	WHITE	3500K	25 W	2313LM			CUTSHEET	
FL-01	RECESSED LINEAR		STAFF ROOM	FOCAL POINT	**SEEM 1 FSM1-BW-625LF-35K-1C-UNV-L11-GRID-WH-LENGTH**	RECESSED	WHITE	3500K	6W/FT	625LM/FT	0-10V	UNV	CUTSHEET	RECESSED, 4' LENGTHS INSTALL DRIVERS OVER ACCESSIBLE CEILING
FP-01	SUSPENDED BIDIRECT LINEAR - DIMMABLE		STAFF ROOM	ALW	**SUPERPLANE 2.5**	SUSPENDED	TBD	3500K	11W/FT	1250LM/FT	0-10V	UNV	CUTSHEET	*CONFIRM MOUNTING AND LENGTHS PER DRAWING. CONFIRM ALL FINISHES.
FP-03	SUSPENDED DIRECT CIRCULAR		CHILDREN'S READING AREA	BUZZI LIGHT	**BUZZIJET**	SUSPENDED	PER INTERIORS	3500K	29W	2545 LM	0-10V	UNV	CUTSHEET	
FC-01	COVE LIGHT		THROUGHOUT	WAC	**INVISILED CCT T24-CSXX-LENGTH-2750-WT**	SURFACE	NA	SELECTABLE 27K/30K/35K/40K/50K	8.5W/FT MAX	000LM/FT MAX	ELV 0-10V	24VDC	CUTSHEET	MOUNT IN COVE. PROVIDE ALL COMPONENTS FOR FULLY OPERATIONAL AND DIMMABLE SYSTEM.
FC-02	COVE LIGHT		READING AREAS / MULTI-PURPOSE ROOM	ALUZ	**ZAFU SNAKE A1-ZAFU-SNK-F-WH-35K-6W-10V-FEED-DRY-UNV-LENGTH**	SURFACE	WHITE	3500K	6W/FT	720LM/FT	0-10V	UNV	CUTSHEET	MOUNT IN COVE. LOCATE DRIVES IN ACCESSIBLE CEILING
FS-01	UNDERCABINET		STAFF LOUNGE	WAC	**INVISILED PRO 2 LED-TX2434-1-40-WT**	SURFACE	WHITE	3500K	4W/FT	330LM/FT	DIM	24VDC	CUTSHEET	
WS-01	WALL SCONE		FAMILY RESTROOM AND STAFF RESTROOM	MULLON	**NAKAII COLLECTION SKU : MLCMWL038**	SURFACE			6.5 W LED		STANDARD	120V	CUTSHEET	
EX-01	EXIT SIGN			ARCHITECTURAL SAFETY COMPONENTS	**LELU**	SURFACE	CUTOUT	NA	4w max		NA		CUTSHEET	PROVIDE ALL EXIT SIGNS IN RED
S-01	WALL LIGHT		MAIN ENTRY/ MULTIPURPOSE PATIO	SPJ	**SPJ SPJ-GDG-31WP**	SURFACE	BLACK	SELECTABLE 27K/30K/35K/40K	10W			120-277 V	CUTSHEET	
S-02	BOLLARD		SITE	TARGETTI	**Targetti Chiobo Bollard Light CBB-41-40-36-L3-27-BZ-MG With Base 1US40352BZ, and Jbox 1US2530**		BLACK	SELECTABLE 27K/30K/35K/40K	20W (360°)			120-277V	CUTSHEET	
S-03	AREA LIGHT		SITE	Landscape Forms	**Landscape Forms Motive Area Light AJ500 – LB-80F – 27K – UV1 – P2 – NTW – BRZ With Pole AJ550-10-01-BRZ**		BLACK		32W	2487			CUTSHEET	
S-04	DIRECTIONAL LIGHT		SITE	SPJ	**SPJ Directional Light SPJ-AL1 -8W-MBR-8W-27K-12-15V-WAF With mounting canopy SPJ 19-01**	SURFACE	Matte Bronze		8W	580		12-15v	CUTSHEET	
	CONTROLS				WAVELINX WIRELESS & INTEGRATED OPTIONS REFER TO EXAMPLE CONTROLS DRAWINGS FOR YOUR REFERENCE									

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LICENSED ARCHITECT
JEFFREY MILLER
C-37366
01/31/2027
RENEWAL DATE
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Sheet Name:

LIGHTING SCHEDULE

Project No.: 24.05
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Sheet No.: A401

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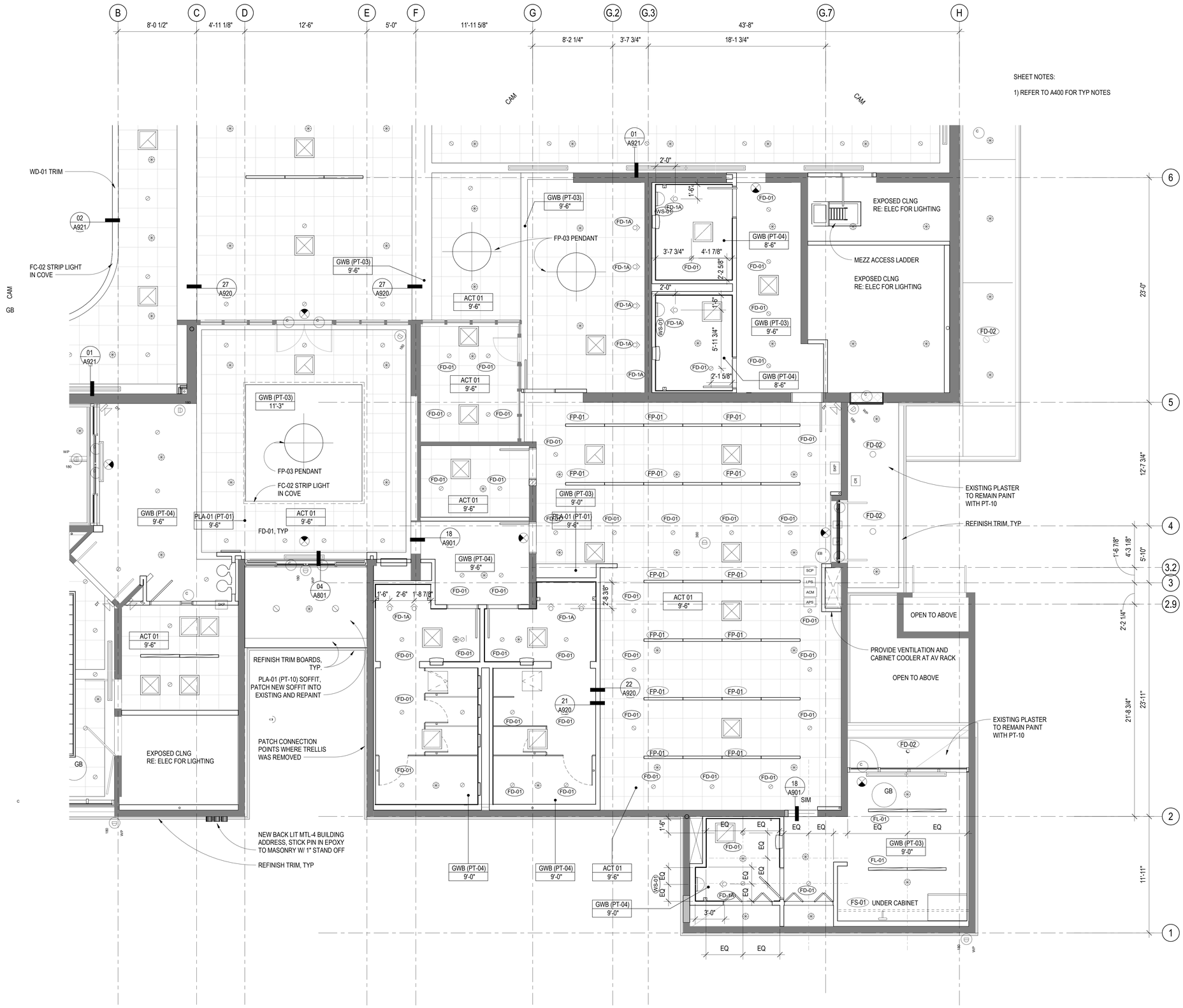

ENLARGED REFLECTED CEILING PLAN

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C-37366
01/31/2027
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ENLARGED REFLECTED CEILING PLAN

Project No.:	Sheet No.:
24.05	A410
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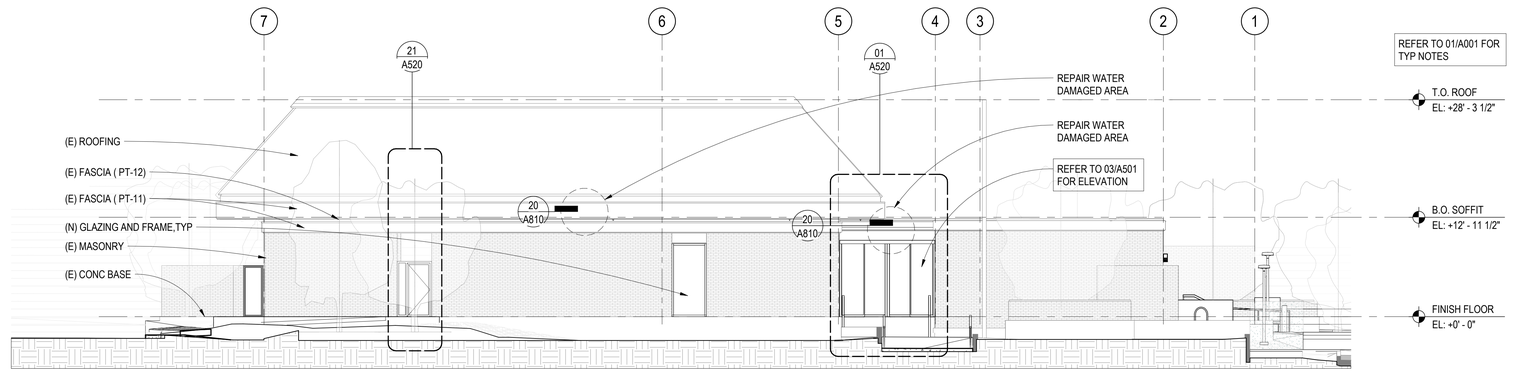
SHEET NOTES:

1) CONTRACTOR SHALL OBSERVE ENTIRETY OF BUILDING FOR WATER DAMAGE. WHERE THE FASCIA SHOW SIGNS OF DAMAGE CAREFULLY REMOVE FULL BOARD AND REPLACE IN KIND WITH SCARF JOINTS. PRIOR TO REINSTALLING THE FASCIA BOARD REMOVE ALL MILDEW AND APPLY MILDICIDE PRIMER.

2) WHERE GUTTERS ARE FAILING OR IN NEED OF MAINTENANCE, CAREFULLY REMOVE AND CLEAN FOR REINSTALLATION. RESEAL ALL PENETRATIONS OF DRAIN LINES INTO BUILDING.

3) PHOTOGRAPH AREAS WHERE EXTERIOR FINISHES ARE TO BE REMOVED PRIOR TO COMMENCING AND THROUGHOUT PROCESS. REFER TO 02 41 00 "SELECTIVE DEMOLITION" FOR ADDITIONAL NOTES.

4) UPON REMOVAL OF FINISHES IF AREAS APPEAR SIGNIFICANTLY DAMAGED OR DETERIORATED NOTIFY ARCHITECT FOR OBSERVATION AND DETERMINATION OF EXTENT OF REPAIR.



OVERALL W ELEVATION 04

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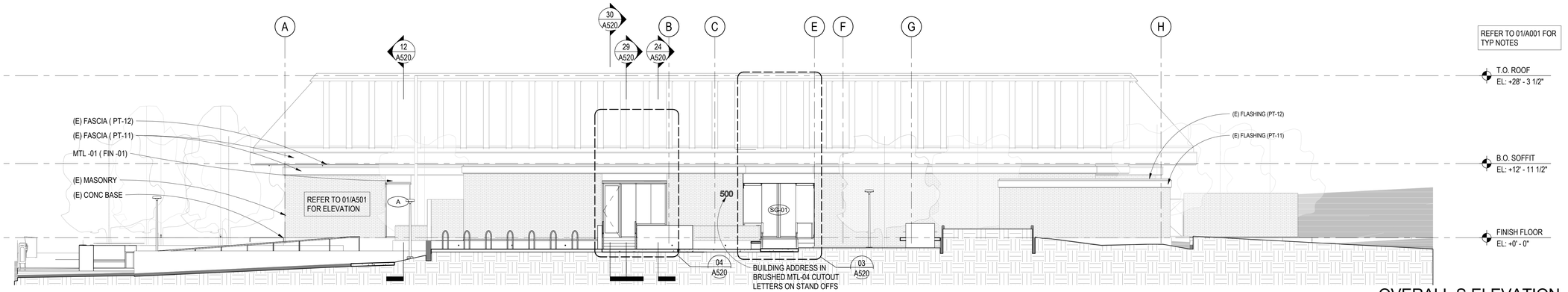

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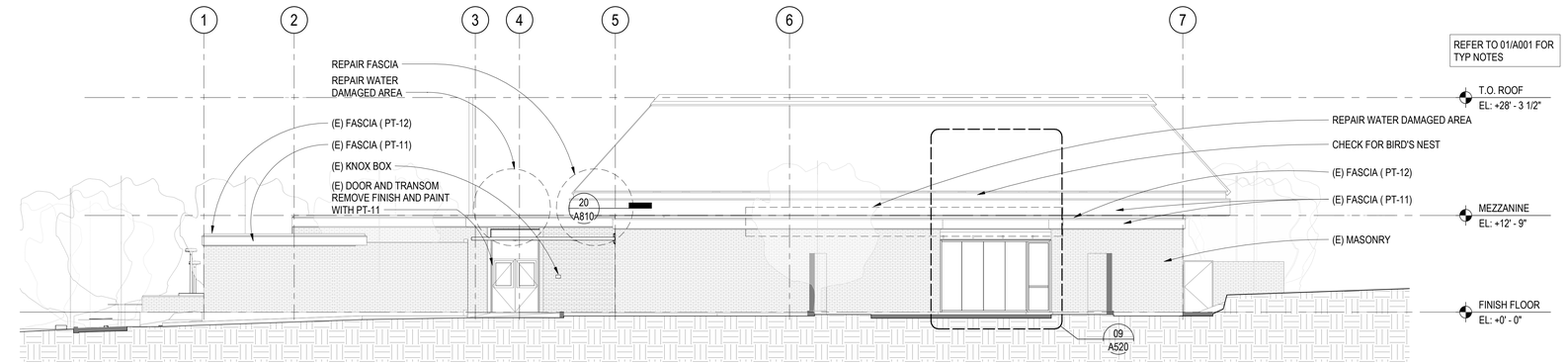

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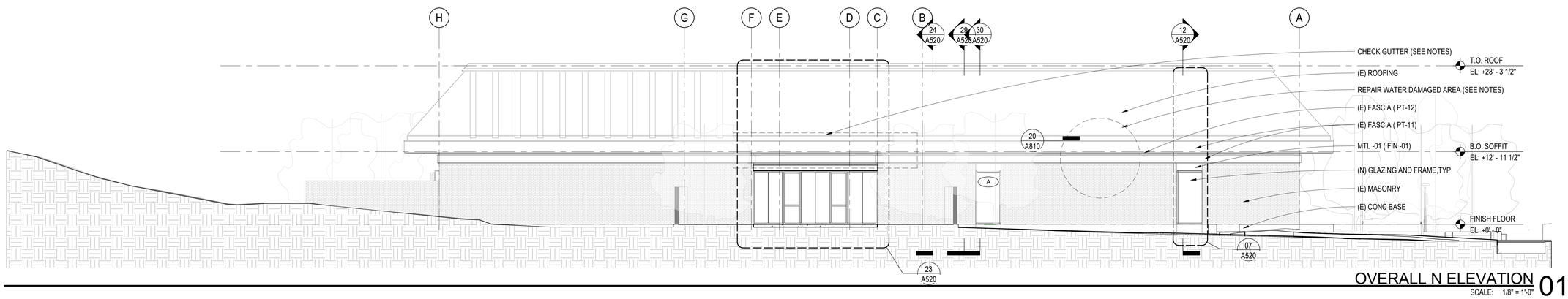

OVERALL N ELEVATION 01

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OVERALL BUILDING ELEVATION

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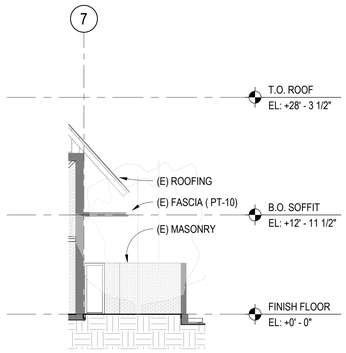

PATIO ELEVATION 06
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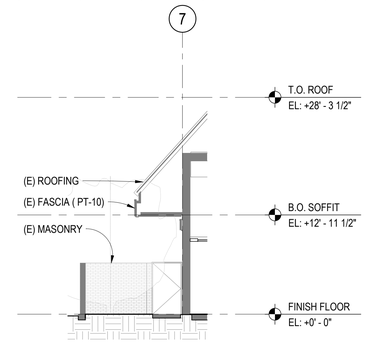

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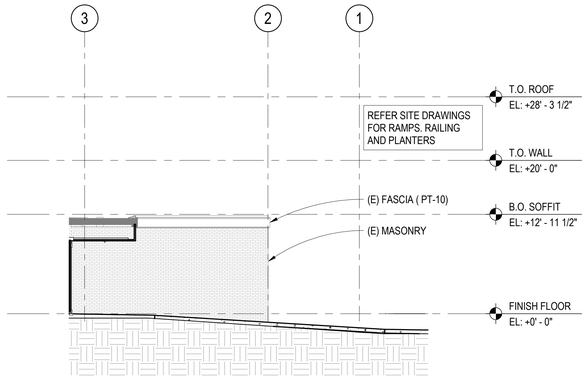

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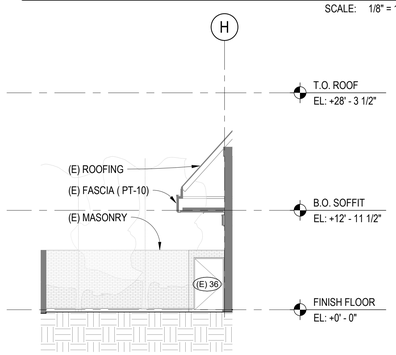

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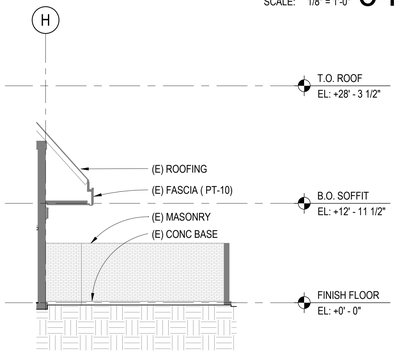

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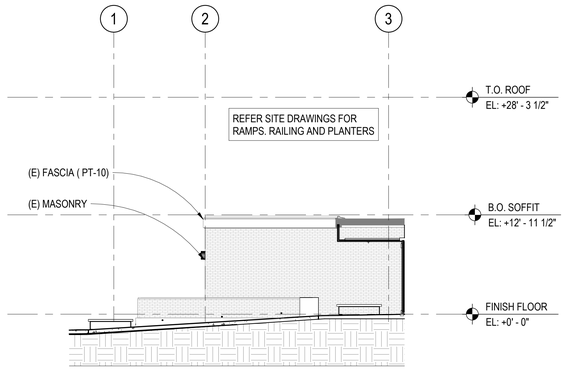

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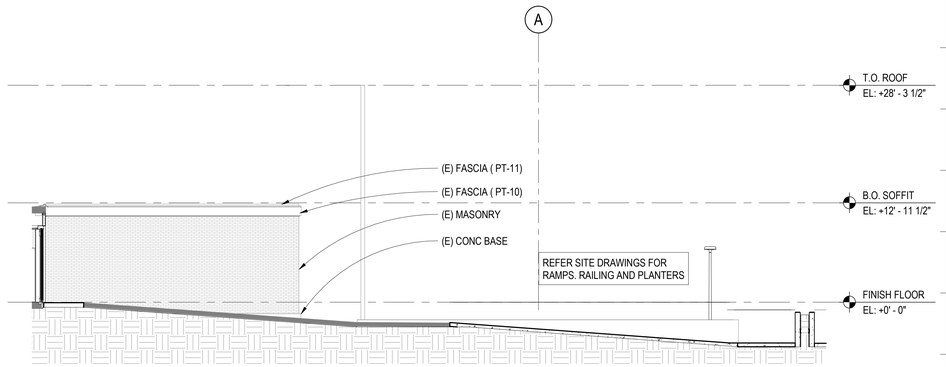

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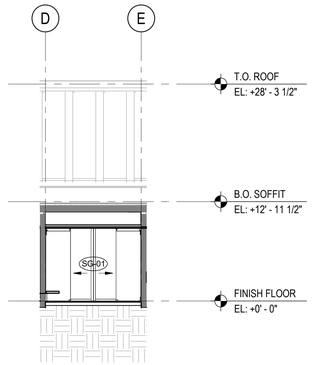
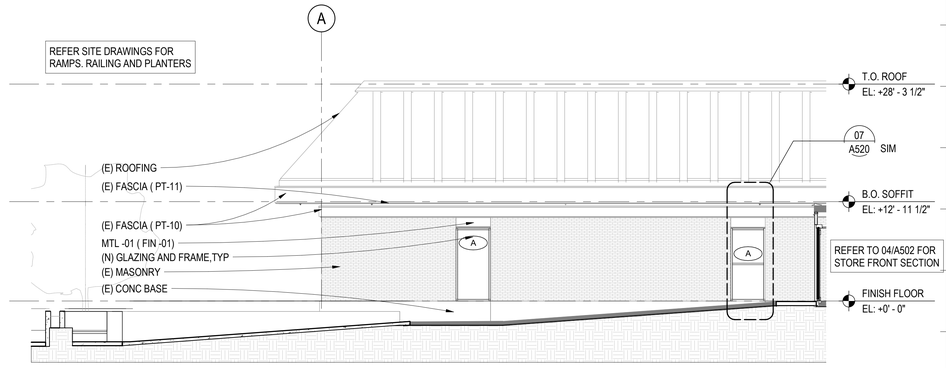


S-ENTRY ELEVATION TOP OF RAMP LEVEL 07
SCALE: 1/8" = 1'-0"



W ENTRY S ELEVATION 01
SCALE: 1/8" = 1'-0"

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INTERFACE ENGINEERING

Consultants:
JENSEN HUGHES

Issued For:

No.:	Description:	Date:
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	100% DESIGN DEVELOPMENT	22 NOV 2024
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	ISSUED FOR PERMIT	20 MAR 2025
	90% CONSTRUCTION DOCUMENT	08 AUG 2025
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	ISSUED FOR BID	13 OCT 2025

Seal & Signature:

LICENSED ARCHITECT
JEFFREY MEIER
C-37366
01/31/2027
RENEWAL DATE
STATE OF CALIFORNIA

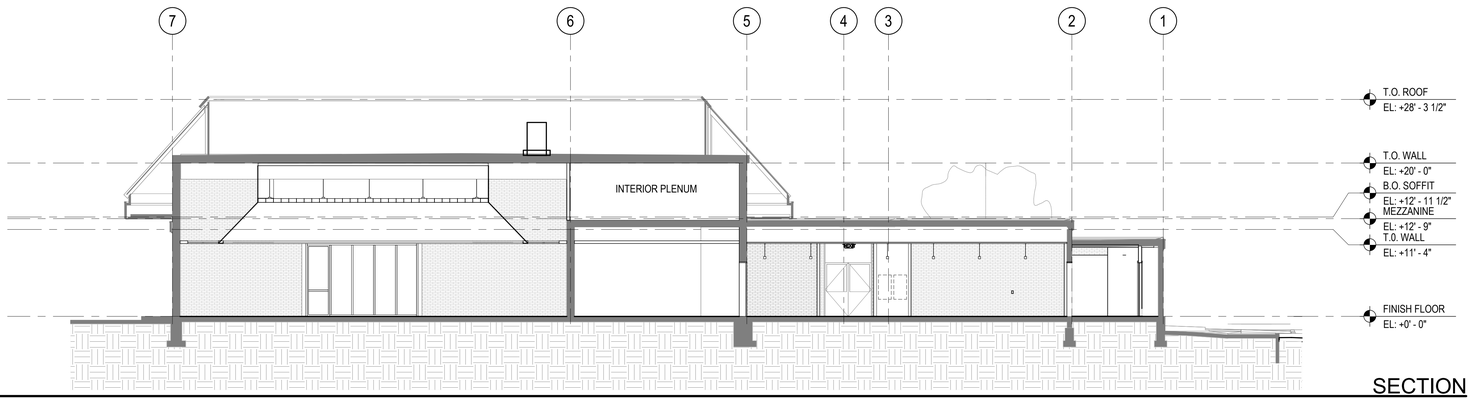
Sheet Name:

OVERALL BUILDING ELEVATION

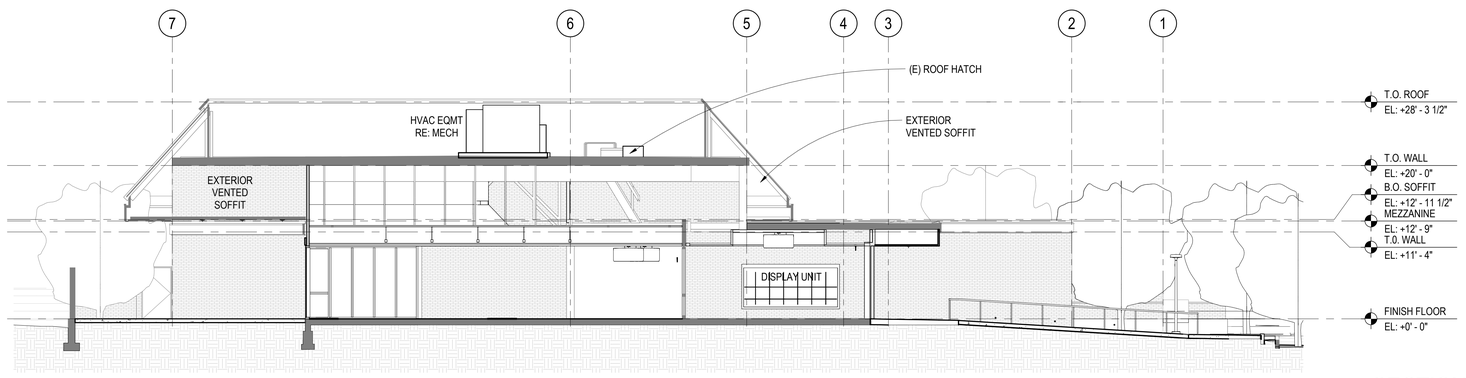
Project No.: 24.05
Drawn By: Author
Checked By: Checker
Scale: 1/8" = 1'-0"

Sheet No.: A501

10/13/2025 10:17:25 AM



SECTION 04
SCALE: 1/8" = 1'-0"



SECTION 03
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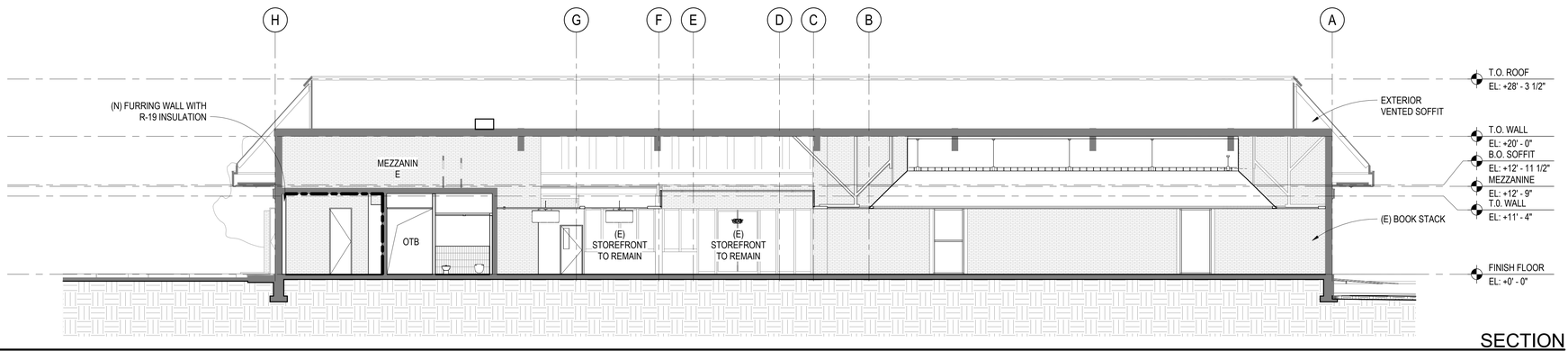

SECTION 02
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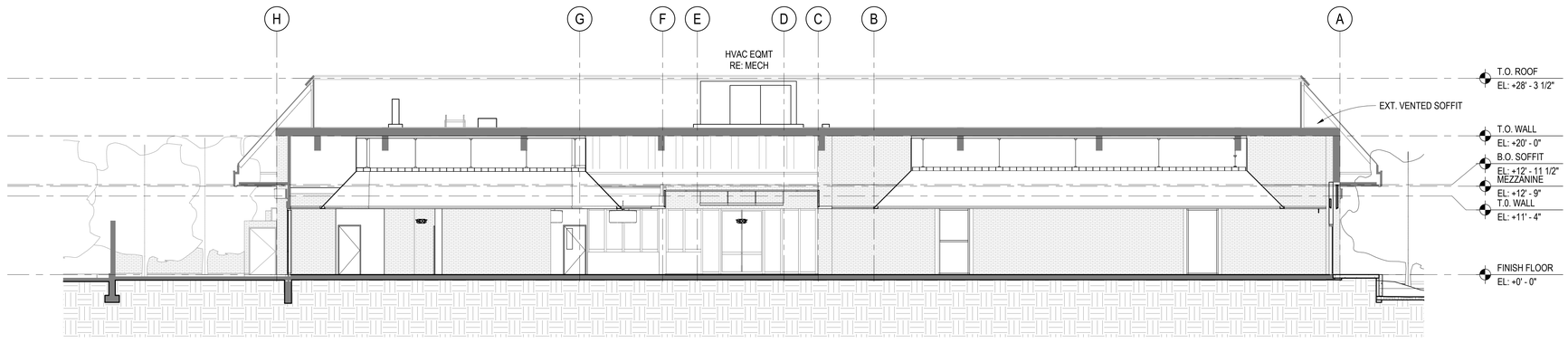

SECTION 01
SCALE: 1/8" = 1'-0"

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Seal & Signature:

LICENSED ARCHITECT
JEFFREY MILLER
C-37366
01/31/2027
RENEWAL
STATE OF CALIFORNIA

Sheet Name:

BUILDING SECTIONS

Project No.:	Sheet No.:
24.05	A510
Drawn By: Author	
Checked By: Checker	
Scale: 1/8" = 1'-0"	

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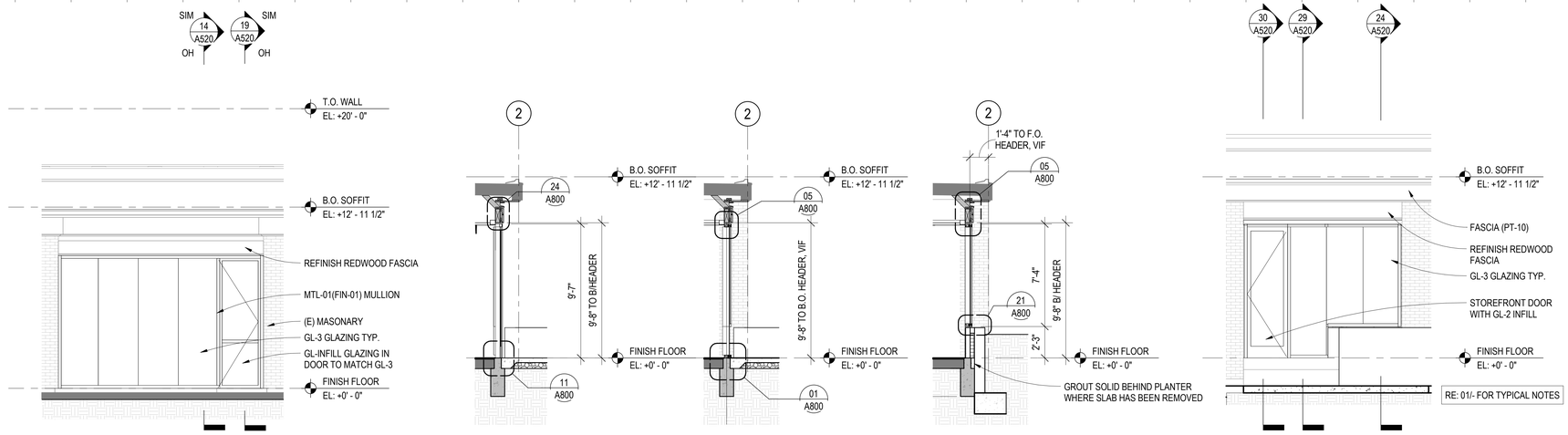


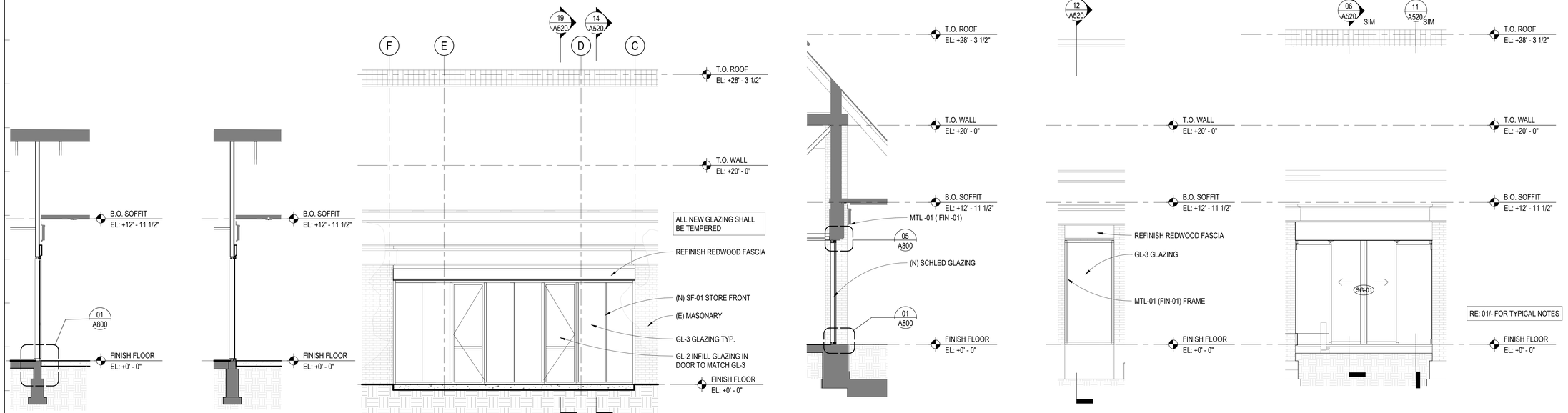
ENLARGED ELEVATION 09
SCALE: 1/4" = 1'-0"

SECT @ DOOR 30
SCALE: 1/4" = 1'-0"

SECT @ SIDELIGHT 29
SCALE: 1/4" = 1'-0"

SECT @ PLANTER 24
SCALE: 1/4" = 1'-0"

ENLARGED ELEVATION 04
SCALE: 1/4" = 1'-0"



SECT @ DOOR 19
SCALE: 1/4" = 1'-0"

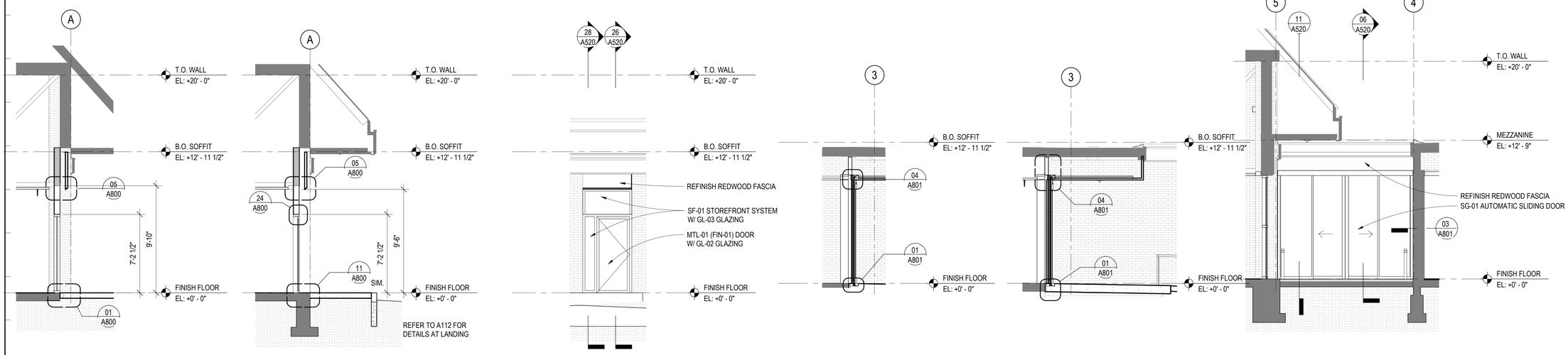
SECT @ SIDE LIGHT 14
SCALE: 1/4" = 1'-0"

ENLARGED MAIN ENTRY ELEVATION 23
SCALE: 1/4" = 1'-0"

SECT @ WINDOW A 12
SCALE: 1/4" = 1'-0"

ENLARGED ELEVATION 07
SCALE: 1/4" = 1'-0"

ENLARGED MAIN ENTRY ELEVATION 03
SCALE: 1/4" = 1'-0"



SECT @ SIDE LIGHT 28
SCALE: 1/4" = 1'-0"

SECT @ (N) EGREES DOOR 26
SCALE: 1/4" = 1'-0"

ENLARGED ELEVATION 21
SCALE: 1/4" = 1'-0"

SECT @ SIDE LIGHT 11
SCALE: 1/4" = 1'-0"

SECT @ SLIDING DOOR 06
SCALE: 1/4" = 1'-0"

ENLARGED SIDE ENTRY ELEVATION 01
SCALE: 1/4" = 1'-0"

0

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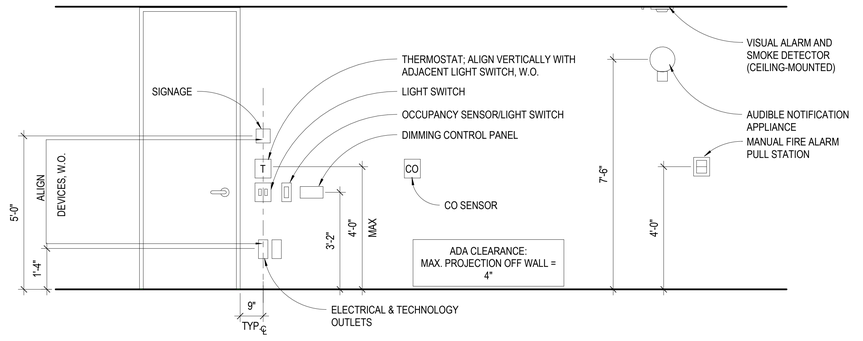
JEFFREY MILLER
C-37366
01/31/2027
RENEWAL DATE
STATE OF CALIFORNIA

Sheet Name:
ENLARGED ELEVATION AND WALL SECTIONS

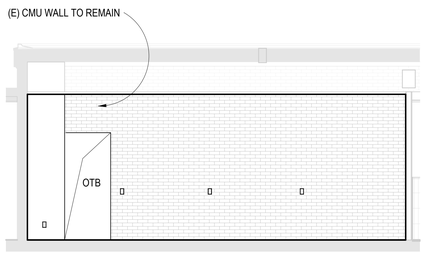
Project No.: 24.05
Drawn By: Author
Checked By: Checker
Scale: 1/4" = 1'-0"

Sheet No.:
A520

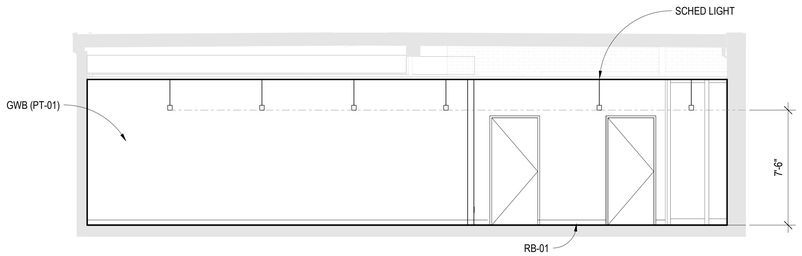
TYPICAL FACEPLATE FINISHES:	
WALL FINISH:	FACEPLATE FINISH:
PAINT	WHITE
CONCRETE	STAINLESS STEEL
WOOD	DO NOT LOCATE DEVICES ON THIS FINISH
CERAMIC TILE	STAINLESS STEEL



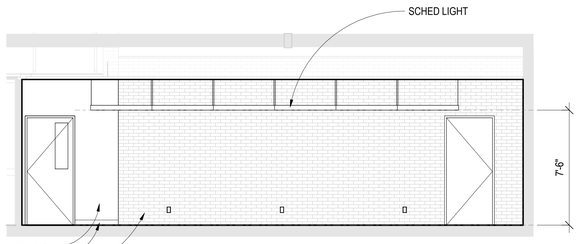
TYPICAL MOUNTING HEIGHT 03
SCALE: 1/2" = 1'-0"



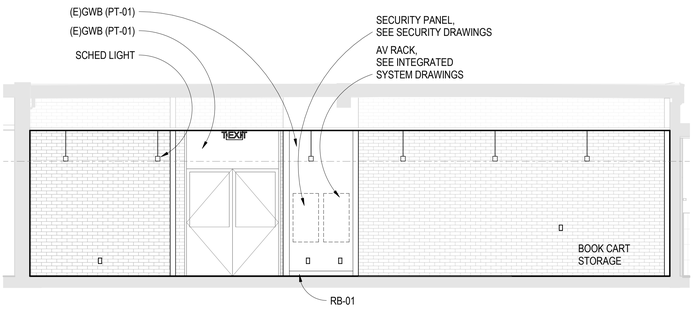
STAFF LOUNGE 18 - SOUTH ELV 12
SCALE: 1/4" = 1'-0"



STAFF LOUNGE 18 - WEST ELV 02
SCALE: 1/4" = 1'-0"



STAFF LOUNGE 18 - NORTH ELV 11
SCALE: 1/4" = 1'-0"



STAFF LOUNGE 18 - EAST ELV 01
SCALE: 1/4" = 1'-0"

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LICENSED ARCHITECT
JEFFREY MILLER
C-37366
01/31/2027
RENEWAL
STATE OF CALIFORNIA

Sheet Name:

ENLARGED INTERIOR ELEVATIONS

Project No.:	Sheet No.:
24.05	A600
Drawn By: Author	
Checked By: Checker	
Scale: As indicated	

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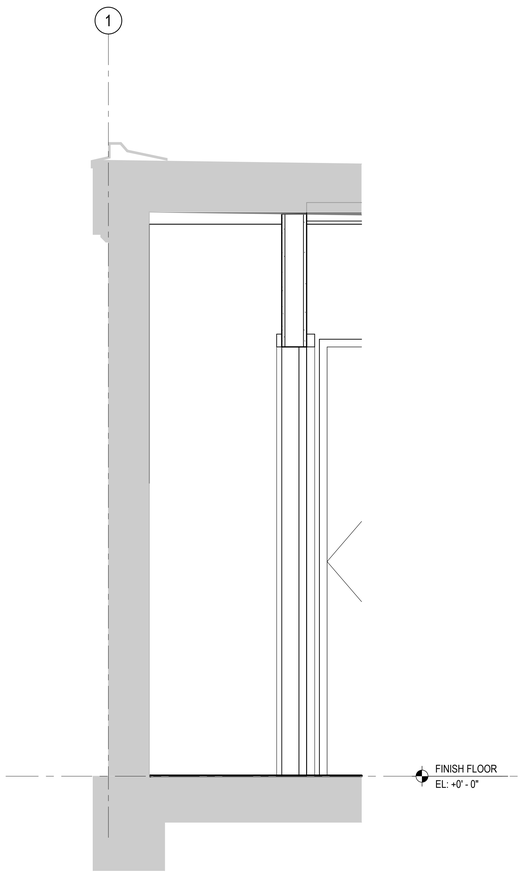

INTERIOR SECTION 26
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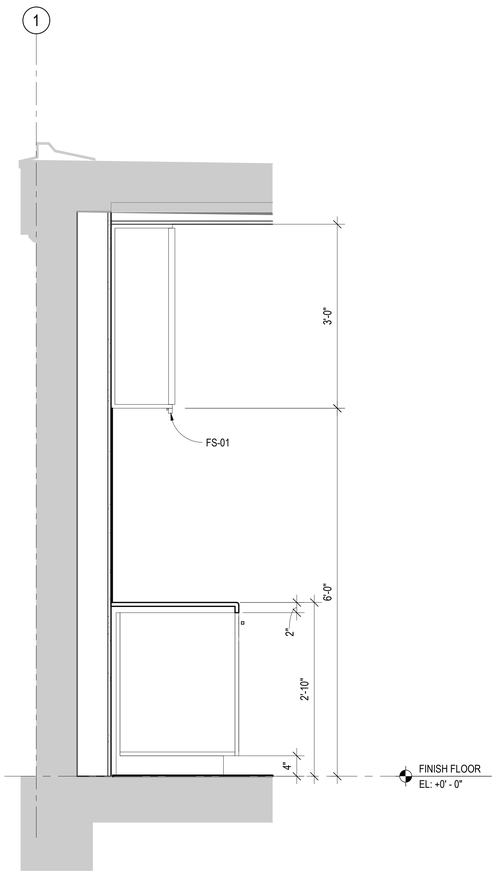

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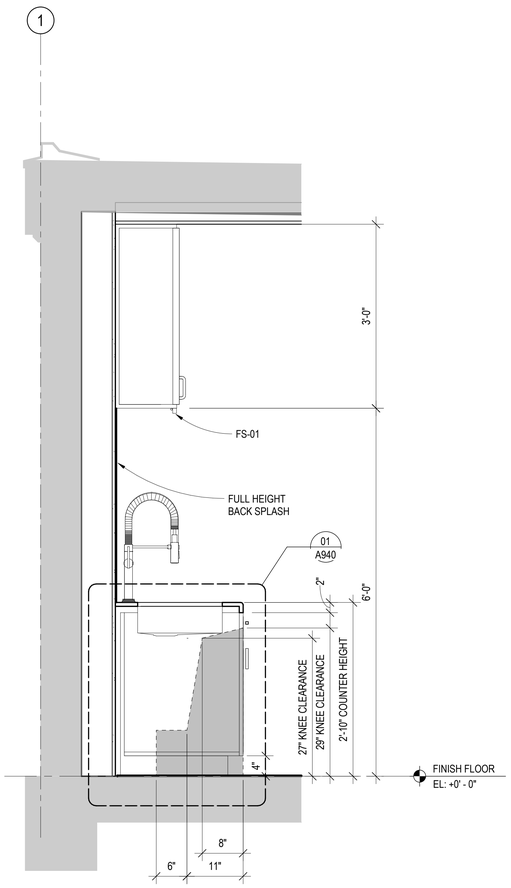
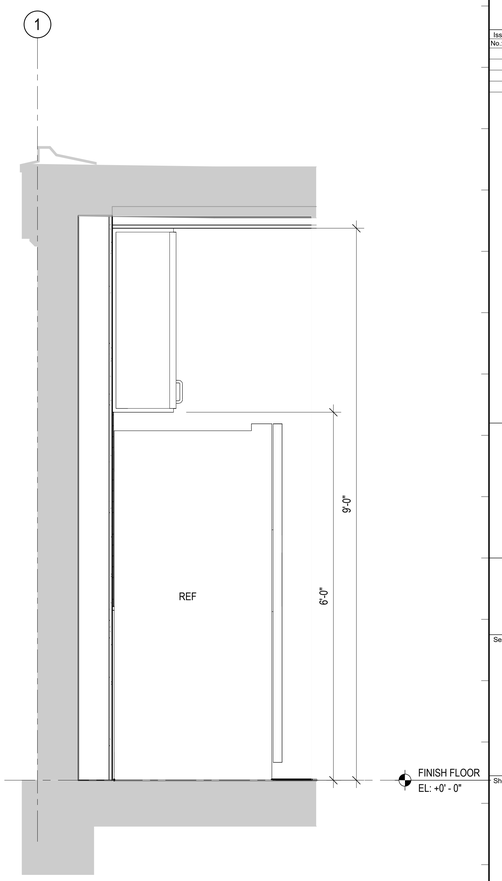


INTERIOR SECTION 11
SCALE: 1" = 1'-0"



INTERIOR SECTION 01
SCALE: 1" = 1'-0"

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LICENSED ARCHITECT
JEFFREY MILLER
C-37366
01/31/2027
RENEWAL
STATE OF CALIFORNIA

Sheet Name:
ENLARGED INTERIOR ELEVATIONS

Project No.: 24.05
Drawn By: Author
Checked By: Checker
Scale: 1" = 1'-0"

Sheet No.: A610

10/13/2025 10:17:33 AM

FAKRO

SUBMITTAL/TECHNICAL DATA SHEET

APPLICATION

Folding section attic ladder LMP allows access to the attic space, even in very high rooms, while maintaining maximum comfort and safety of use. Supported room height range from 9'10" to 12'.

FEATURES

- Insulated door with white finish
- Plastic ends
- Weather seal gasket
- Ladder unloading mechanism, built into the handrail
- Non-slip steps
- Up to 1⅛" ceiling height adjustment
- Intended for installation in high ceiling
- Additional accessories available
- 2 years warranty

SPECIFICATIONS

HATCH:
Insulated, sandwich type
Thickness: 1⅛"
Thermal insulation thickness: 1¼".

FRAME:
Pinewood
Height: 7⅛"
Seal: 1x

LADDER:
Metal
Ladder width: 15"
Stringer height: 3⅛"
Distance between steps: 9½".

STEPS:
Metal, equipped with anti-slip profile.
Step width: 3¼"
Length: 13¾"

STANDARD ACCESSORIES:
Plastic ends
Handrail with unloading mechanism.
Lightweight aluminum telescopic rod to open the hatch.

For a complete list of options visit www.AccessDoorsAndPanels.com

SKU: LMP

METAL FOLDING ATTIC LADDERS

DIMENSIONS AND APPEARANCE

>> CLICK TO VIEW ADDITIONAL DETAILS AND PRICING <<

DIMENSIONS:

Rough Opening	Room Height
22.5" x 56.5"	7' 11" – 10'1"
25" x 56.5"	
25" x 56.5"	
30" x 56.5"	

Step length	E	13¾"
Distance between steps		3¼"
Distance between steps		9½"

TECHNICAL PARAMETERS:

Maximum loading	375 lbs
Heat transfer coefficient	R-value: 5.2

For more details see the second page

COMPATIBLE ACCESSORIES:

Ladder Balustrade LXB-U	The balustrade is available in one standard size 30"x54" for all attic ladders.
Wooden trim LXL-W	The trims are available in size 30"x56,5" for smaller sizes have to be cut.
PCV trim LXL-PVC	The trims are available in size 30"x56,5" for smaller sizes have to be cut.
Box extension LXN	The standard box height is 4". While ordering the LXN please provide ladder type and size.
Upper hatch LXW	The height of the upper hatch box is 7⅛".
Installation brackets LXK	Maximum ceiling 13⅜"

ASSEMBLY INFORMATION

The LMP attic ladder is delivered to the customer fully assembled, it requires only screwing side elements of the supports which for transport purposes are unscrewed. The length of the last segment should be cut on-site to suit to existing ceiling height. Installation of the product must be carried out in accordance with the included fitting instructions.

PROJECT DATA

PROJECT NAME :	QTY	W	H	OPTIONS
ARCHITECT :				
DEALER :				
CONTRACTOR :				
LOCATION :	SPECIAL INSTRUCTIONS :			
DATE :				
TAGGING INSTRUCTIONS :	SUBMITTAL APPROVAL : (signature or stamp)			

Scan or Click

To view Pricing and Additional Product Info.

TELEPHONE: 1-888-457-1275
FAX: 1-888-626-2907
PO BOX 66738 #76520, SAINT LOUIS, MO 63166-6738 USA
WEBSITE: www.AccessDoorsAndPanels.com
E-MAIL: info@AccessDoorsAndPanels.com

FAKRO SUBMITTAL

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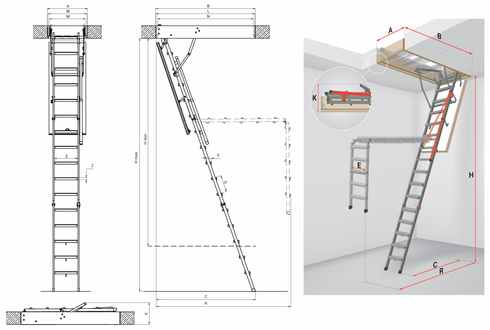
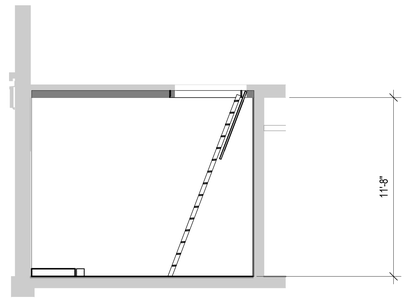
WEBSITE: www.AccessDoorsAndPanels.com
E-MAIL: info@AccessDoorsAndPanels.com

LMP FOLDING SECTION ATTIC LADDER

SIZE:				
LMP		22½ x 56½	25 x 56½	30 x 56½
Manufacturer's part number		869331	869332	869333
Ceiling height	H	9'10" - 12"		
Rough opening	AxB	22½" x 56½"	25" x 56½"	30" x 56½"
Outside frame dimensions		22" x 56"	24½" x 56"	29½" x 56"
Internal frame dimensions		20½" x54¾"	22¾" x 54¾"	28" x 54¾"
Projection	R	7⅞"		
Landing space	C	57¼"		
Folder ladder height	K	12⅛"		
Frame height		7⅛"		
Approx. Weight (lbs)		102	108	114





(N) SHIPLADDER CUTSHEET 11
SCALE: 3" = 1'-0"

ENLARGED ELEVATION 01
SCALE: 1/4" = 1'-0"

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LICENSED ARCHITECT — JEFFREY MILLER — C-37366 — 01/31/2027 RENEWAL DATE — STATE OF CALIFORNIA

Sheet Name:

ENLARGED INTERIOR SECTIONS

Project No.: 24.05
Drawn By: Author
Checked By: Checker
Scale: As indicated

Sheet No.: A700

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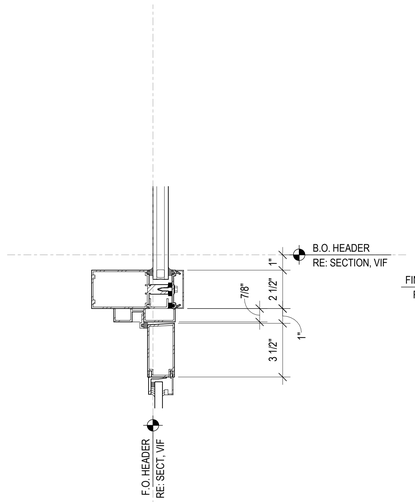

DETAIL @ TRANSOM 24
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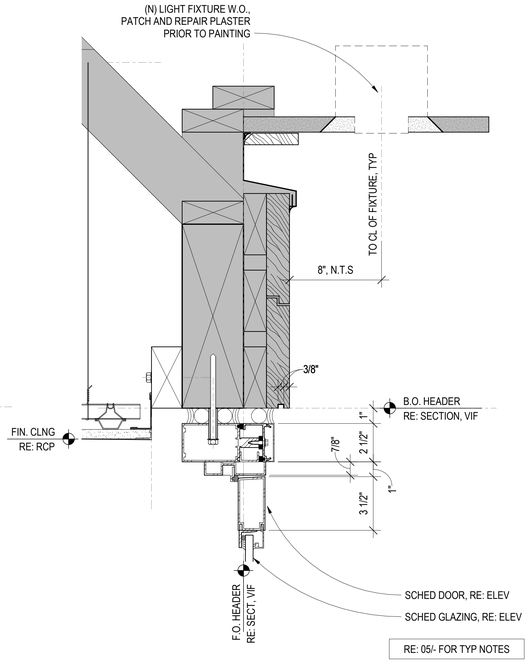

SECTION DETAIL @ SF DR HEAD 15
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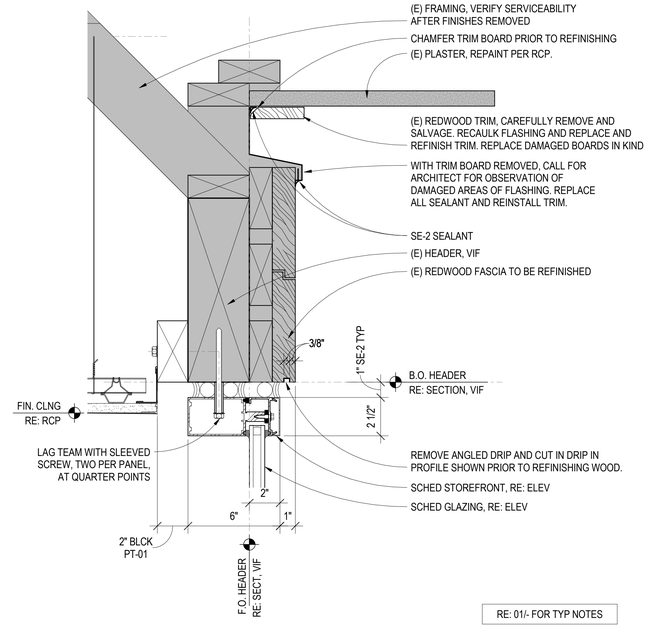


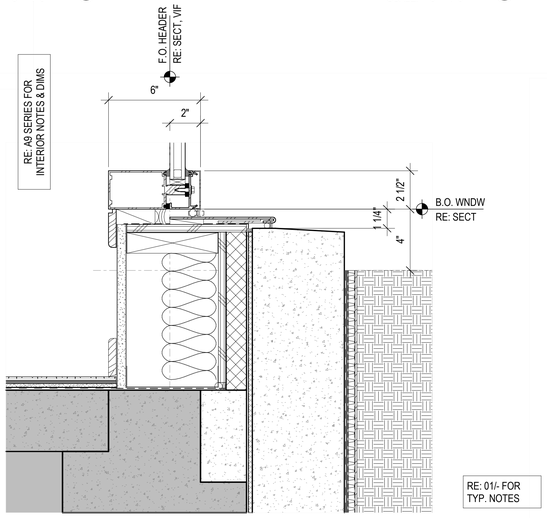
DETAIL @ UPPER HEAD 05
SCALE: 3" = 1'-0"

PLAN DETAIL @ EXTERIOR DOOR JAMB 23
SCALE: 3" = 1'-0"

PLAN DETAIL @ SF TO DOOR 18
SCALE: 3" = 1'-0"

PLAN DETAIL @ INTERMEDIATE JAMB 13
SCALE: 3" = 1'-0"

PLAN DETAIL @ STOREFRONT JAMB 03
SCALE: 3" = 1'-0"



SECT DETAIL @ STOREFRONT SILL PLANTER 21
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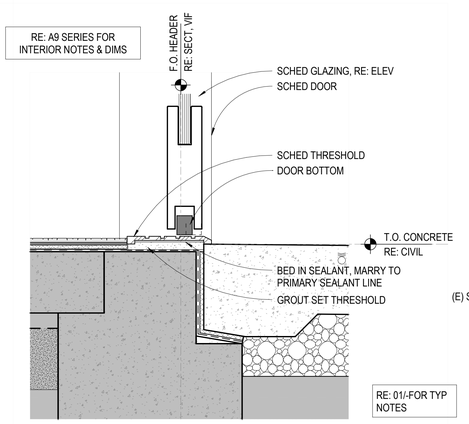
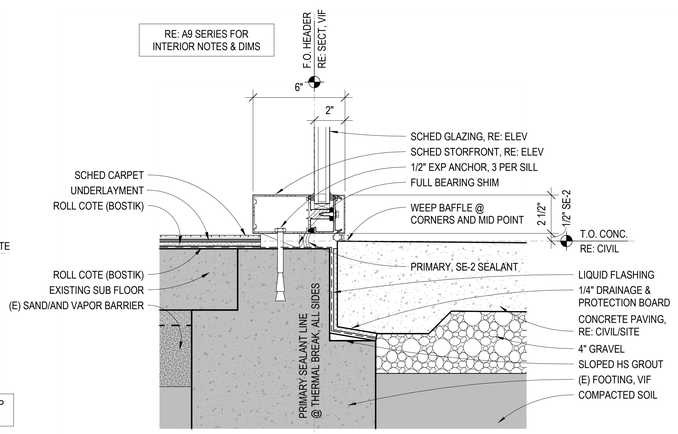


SECT DETAIL @ EXTERIOR DOOR SILL 11
SCALE: 3" = 1'-0"



SECT DETAIL @ STOREFRONT SILL 01
SCALE: 3" = 1'-0"

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No.:	Description:	Date:
	100% DESIGN DEVELOPMENT	22 NOV 2024
	60% CONSTRUCTION DOCUMENT	07 MAR 2025
	ISSUED FOR PERMIT	20 MAR 2025
	90% CONSTRUCTION DOCUMENT	08 AUG 2025
	ISSUED FOR PERMIT REVISION 1	08 AUG 2025
	ISSUED FOR BID	13 OCT 2025

Seal & Signature:

Sheet Name:

EXTERIOR DETAILS

Project No.:	Sheet No.:
24.05	A800
Drawn By: Author	
Checked By: Checker	
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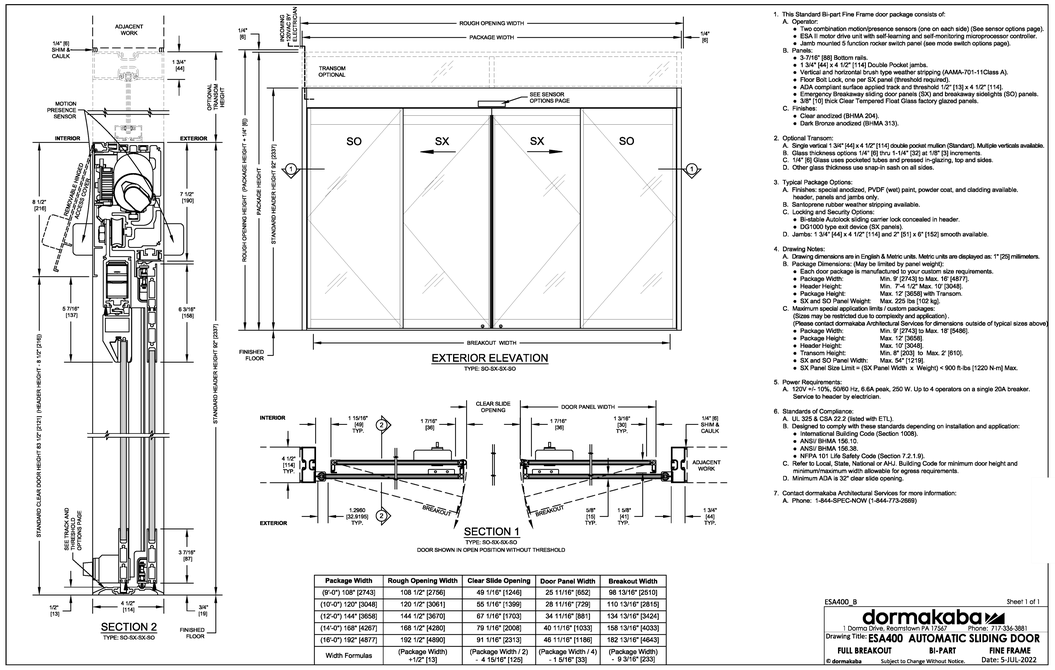

Package Width	Rough Opening Width	Clear Slide Opening	Door Panel Width	Breakout Width
(9'-0") 108" [2743]	108 1/2" [2756]	49 1/16" [1246]	25 11/16" [652]	98 13/16" [2510]
(10'-0") 120" [3048]	120 1/2" [3061]	55 1/16" [1399]	28 11/16" [729]	110 13/16" [2815]
(12'-0") 144" [3658]	144 1/2" [3670]	67 1/16" [1703]	34 11/16" [881]	134 13/16" [3424]
(14'-0") 168" [4267]	168 1/2" [4280]	79 1/16" [2008]	40 11/16" [1033]	158 13/16" [4033]
(16'-0") 192" [4877]	192 1/2" [4890]	91 1/16" [2313]	46 11/16" [1186]	182 13/16" [4643]
Width Formulas	(Package Width) +1/2" [13]	(Package Width /2) - 4 15/16" [125]	(Package Width / 4) - 1 5/16" [33]	(Package Width) - 9 3/16" [233]

1. This Standard Bi-part Fine Frame door package consists of:
   A. Operator:
      - Two combination motion/presence sensors (one on each side) (See sensor options page).
      - ESA II motor drive unit with self-learning and self-monitoring microprocessor controller.
      - Jamb mounted 5 function rocker switch panel (see mode switch options page).
   B. Panels:
      - 3-7/16" [88] Bottom rails.
      - 1 3/4" [44] x 4 1/2" [114] Double Pocket jambs.
      - Vertical and horizontal brush type weather stripping (AAMA-701-11Class A).
      - Floor Bolt Lock, one per SX panel (threshold required).
      - ADA compliant surface applied track and threshold 1/2" [13] x 4 1/2" [114].
      - Emergency Breakaway sliding door panels (SX) and breakaway sidelights (SO) panels.
      - 3/8" [10] thick Clear Tempered Float Glass factory glazed panels.
   C. Finishes:
      - Clear anodized (BHMA 204).
      - Dark Bronze anodized (BHMA 313).
2. Optional Transom:
   A. Single vertical 1 3/4" [44] x 4 1/2" [114] double pocket mullion (Standard). Multiple verticals available.
   B. Glass thickness options 1/4" [6] thru 1-1/4" [32] at 1/8" [3] increments.
   C. 1/4" [6] Glass uses pocketed tubes and pressed in-glazing, top and sides.
   D. Other glass thickness use snap-in sash on all sides.
3. Typical Package Options:
   A. Finishes: special anodized, PVDF (wet) paint, powder coat, and cladding available. header, panels and jambs only.
   B. Santoprene rubber weather stripping available.
   C. Locking and Security Options:
      - Bi-stable Autolock sliding carrier lock concealed in header.
      - DG1000 type exit device (SX panels).
   D. Jambs: 1 3/4" [44] x 4 1/2" [114] and 2" [51] x 6" [152] smooth available.
4. Drawing Notes:
   A. Drawing dimensions are in English & Metric units. Metric units are displayed as: 1" [25] millimeters.
   B. Package Dimensions: (May be limited by panel weight):
      - Each door package is manufactured to your custom size requirements.
      - Package Width: Min. 9' [2743] to Max. 16' [4877].
      - Header Height: Min. 7'-4 1/2" Max. 10' [3048].
      - Package Height: Max. 12' [3658] with Transom.
      - SX and SO Panel Weight: Max. 225 lbs [102 kg].
   C. Maximum special application limits / custom packages:
      (Sizes may be restricted due to complexity and application).
      (Please contact dormakaba Architectural Services for dimensions outside of typical sizes above)
      - Package Width: Min. 9' [2743] to Max. 18' [5486].
      - Package Height: Max. 12' [3658].
      - Header Height: Max. 10' [3048].
      - Transom Height: Min. 8" [203] to Max. 2' [610].
      - SX and SO Panel Width: Max. 54" [1219].
      - SX Panel Size Limit = (SX Panel Width x Weight) < 900 ft-lbs [1220 N-m] Max.
5. Power Requirements:
   A. 120V +/- 10%, 50/60 Hz, 6.6A peak, 250 W. Up to 4 operators on a single 20A breaker. Service to header by electrician.
6. Standards of Compliance:
   A. UL 325 & CSA 22.2 (listed with ETL).
   B. Designed to comply with these standards depending on installation and application:
      - International Building Code (Section 1008).
      - ANSI/ BHMA 156.10
      - ANSI/ BHMA 156.38
      - NFPA 101 Life Safety Code (Section 7.2.1.9).
   C. Refer to Local, State, National or AHJ. Building Code for minimum door height and minimum/maximum width allowable for egress requirements.
   D. Minimum ADA is 32" clear slide opening.
7. Contact dormakaba Architectural Services for more information:
   A. Phone: 1-844-SPEC-NOW (1-844-773-2669)

ESA400_8 Sheet 1 of 1

dormakaba
1 Dorma Drive, Reamstown PA 17567 Phone: 717-336-3881
Drawing Title: **ESA400 AUTOMATIC SLIDING DOOR**
FULL BREAKOUT **BI-PART** **FINE FRAME**
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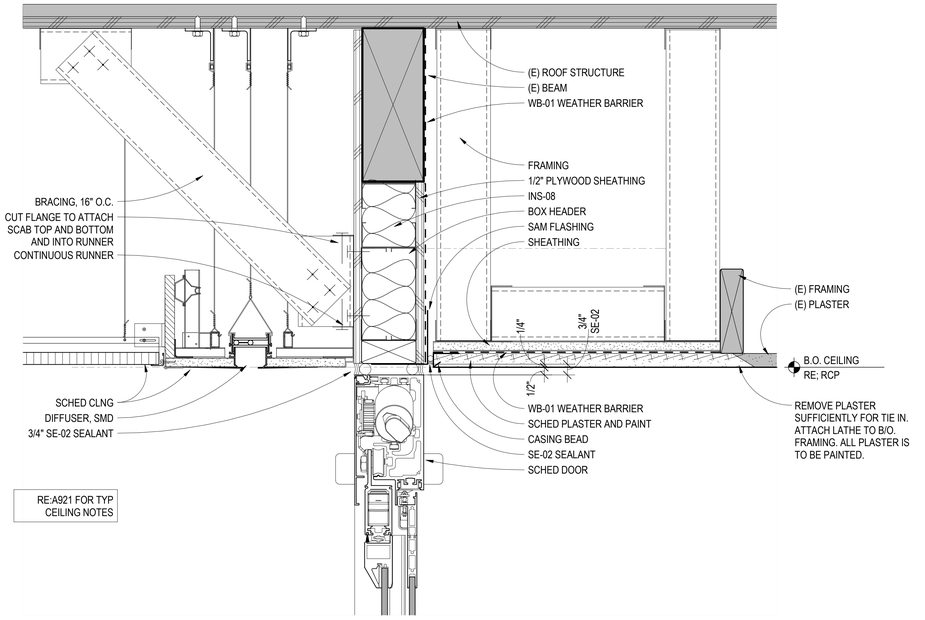

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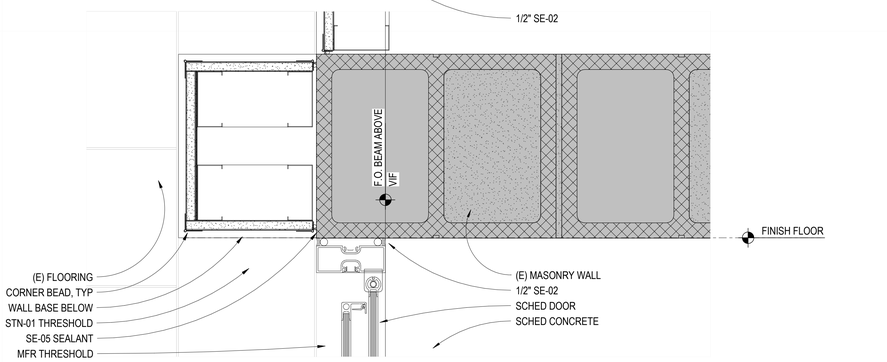

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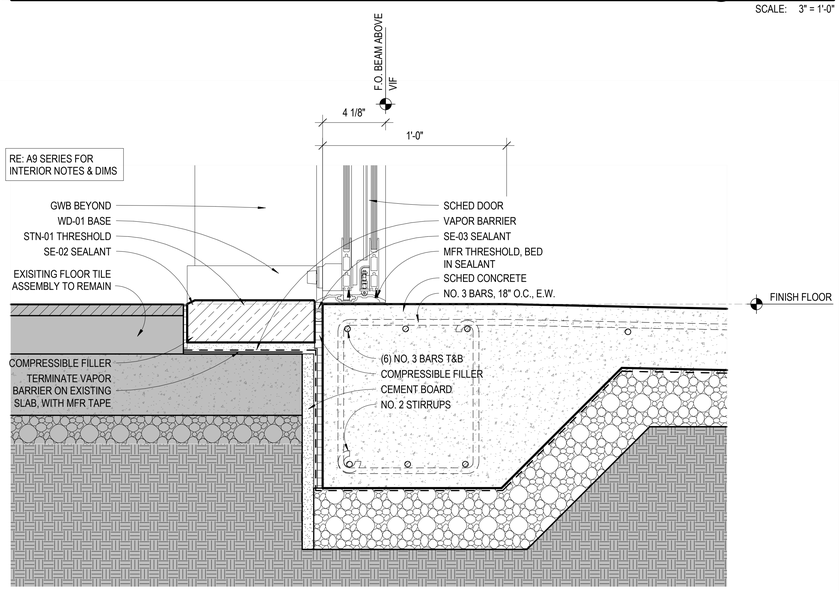

SECT DETAIL @ SG-01 DR SILL 01
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C-37366
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RENEWAL DATE
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Project No.: 24.05
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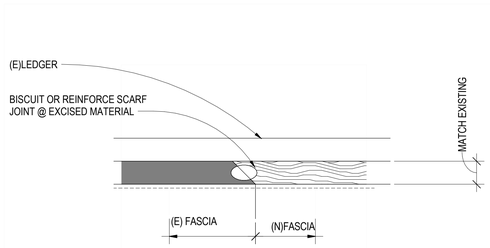

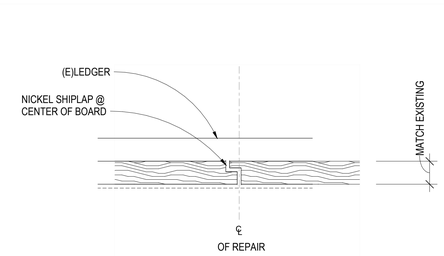

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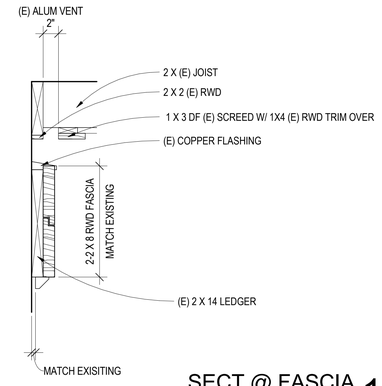

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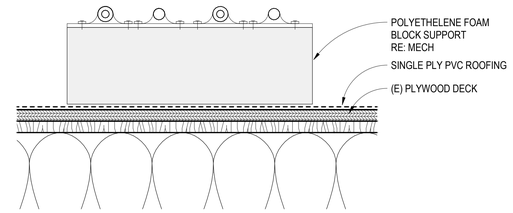

PIPE SUPPORT 05
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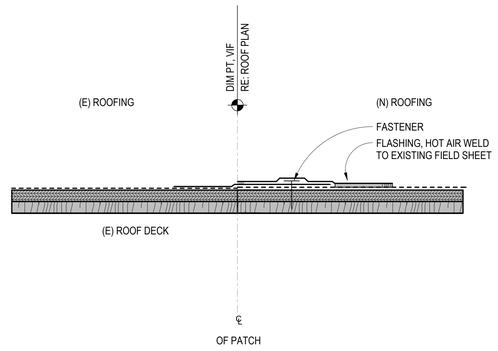

DETAIL@ ROOF PATCH 18
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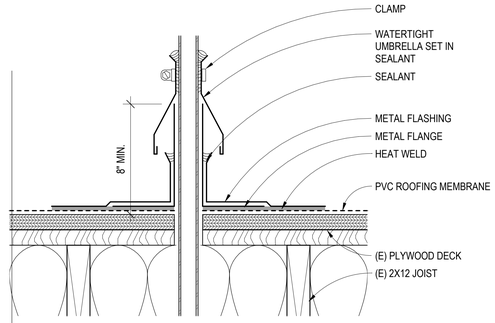

CONDUIT / SMALL PIPE PENETRATION 13
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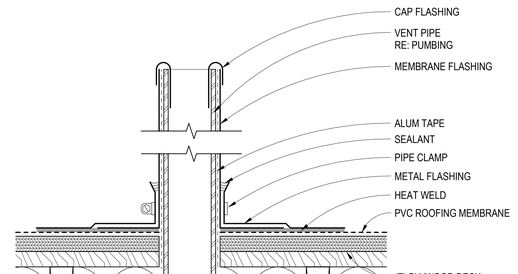

VENT PIPE FLASHING 03
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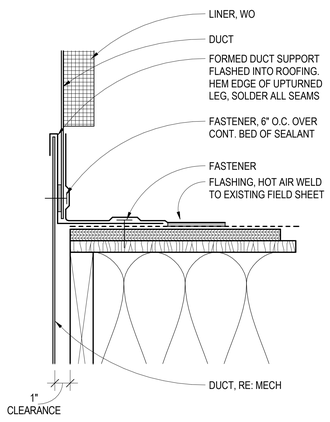

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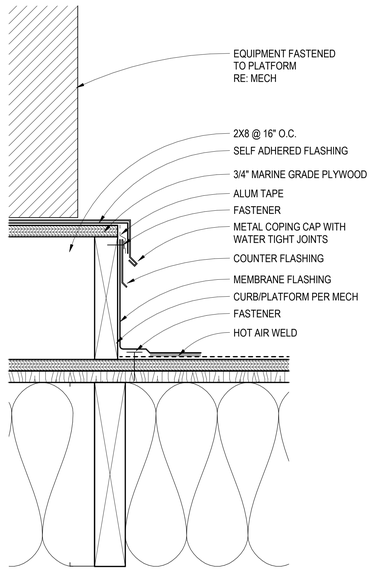

EQUIPMENT PLATFORM 11
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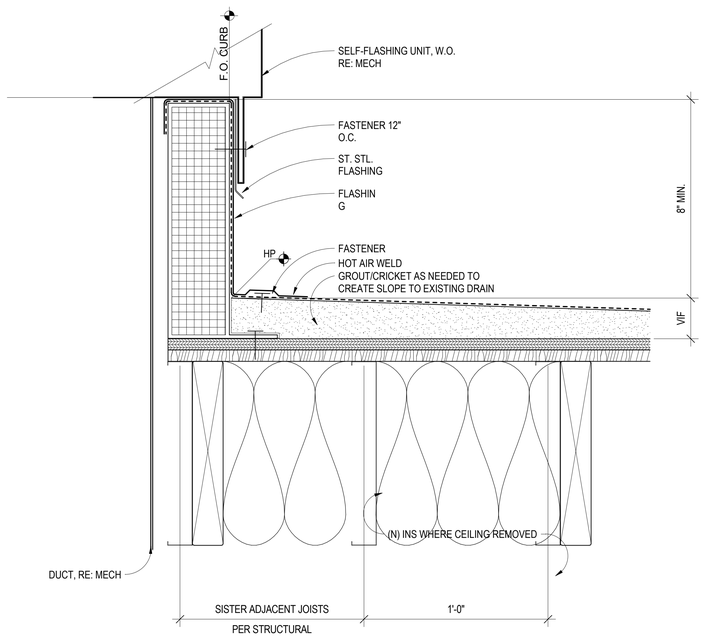

MECHANICAL ROOF CURB 01
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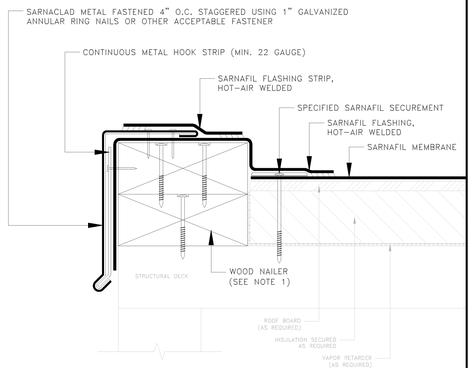
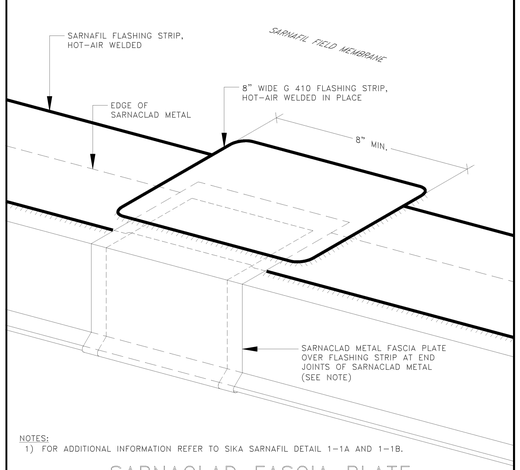


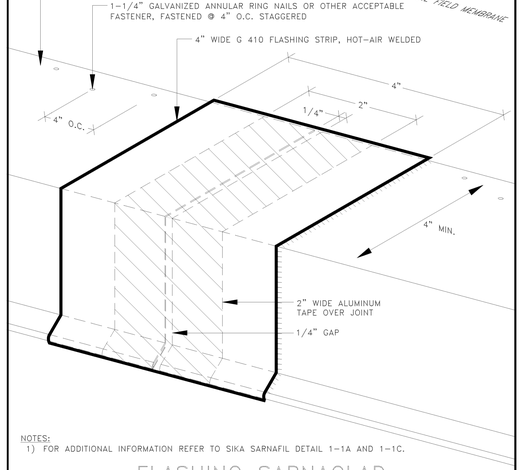
NOTES:
1) NEW OR EXISTING WOOD NAILERS SHALL BE ATTACHED ACCORDING TO THE D.O.R., LOCAL CODE, OR INSURANCE REQUIREMENTS, WHICHEVER IS MORE STRINGENT. NAILER HEIGHT TO MATCH TOP SURFACE TO WHICH MEMBRANE IS TO BE APPLIED.
2) VAPOR RETARDER SHALL BE SEALED AT EDGES.

RAISED SARNACLAD METAL EDGE



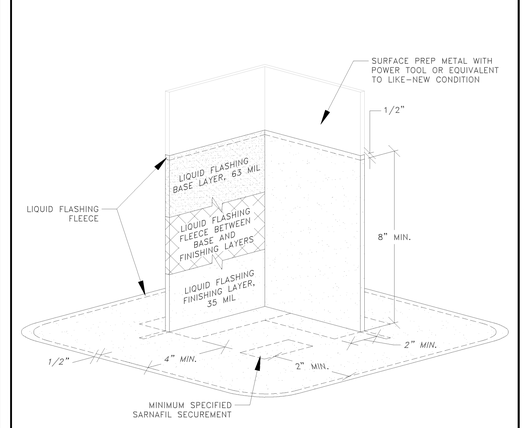
NOTES:
1) FOR ADDITIONAL INFORMATION REFER TO SIKA SARNAFIL DETAIL 1-1A AND 1-1B.

SARNACLAD FASCIA PLATE AT METAL JOINTS

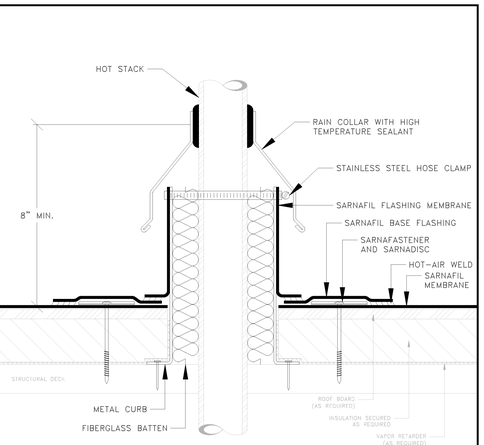


NOTES:
1) FOR ADDITIONAL INFORMATION REFER TO SIKA SARNAFIL DETAIL 1-1A AND 1-1C.

FLASHING SARNACLAD METAL JOINTS

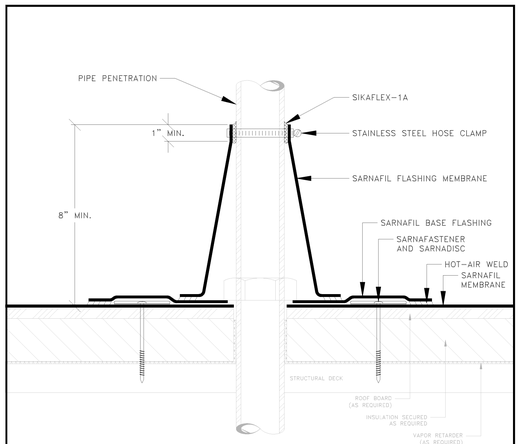


ANGLE IRON LIQUID FLASHING



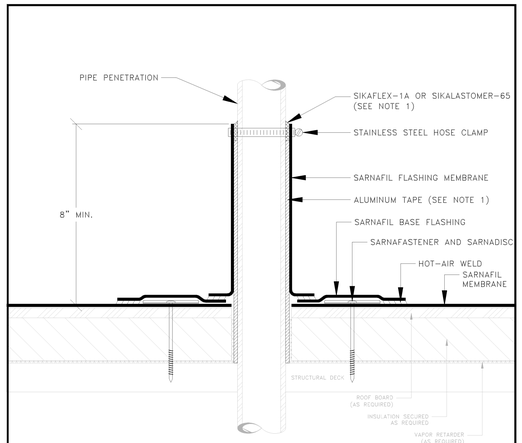
NOTES:
1) SARNAFIL MEMBRANE SHALL NOT BE IN CONTACT WITH SURFACES HAVING SUSTAINED TEMPERATURES ABOVE 160°F.
2) ALUMINUM TAPE IS REQUIRED IF EXISTING PENETRATION IS CONTAMINATED.
3) SEALANT IS A MAINTENANCE ITEM AND IS NOT COVERED UNDER THE SARNAFIL WARRANTY.

HEATED STACK FLASHING



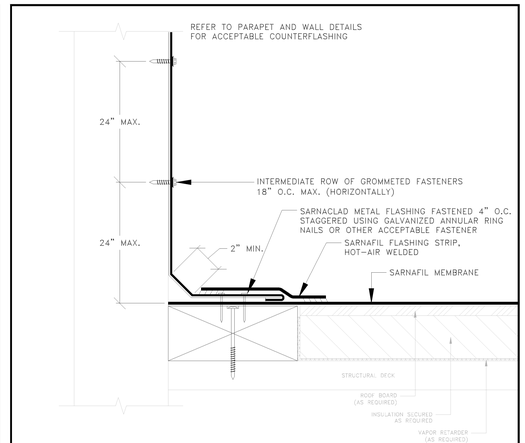
NOTES:
1) SEALANT IS A MAINTENANCE ITEM AND IS NOT COVERED UNDER THE SARNAFIL WARRANTY.

CONE FLASHING AT PENETRATION



NOTES:
1) IF EXISTING PENETRATION IS CONTAMINATED, COVER WITH ALUMINUM TAPE AND USE SIKALASTOMER-65 UNDER HOSE CLAMP. ALTERNATIVE IS TO ELIMINATE ALUMINUM TAPE AND USE SARNAFIL G 459 FLASHING MEMBRANE AND SIKALASTOMER-65 UNDER HOSE CLAMP.
2) SEALANT IS A MAINTENANCE ITEM AND IS NOT COVERED UNDER THE SARNAFIL WARRANTY.

PIPE PENETRATION FLASHING



NOTES:
1) SEALANT IS A TWO-STEP APPLICATION: BEHIND TOP OF SARNAFIL FLASHING THEN TOP OF TERMINATION BAR.
2) SEALANT IS A MAINTENANCE ITEM AND IS NOT COVERED UNDER THE SARNAFIL WARRANTY.

SARNACLAD METAL FLASHING

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JOB NAME:
SCALE: N.T.S. | DATE: 05/21 | FILE NO.: 7-5A | DRW. NO.: XXX
AS A MEMBRANE MANUFACTURER, SIKA CORPORATION ("SIKA") REVIEWS DETAILS PREPARED BY THE CONSULTANT, ARCHITECT AND/OR ENGINEER FOR A PROJECT SOLELY FOR THE PURPOSE OF DETERMINING IF A SIKA WARRANTY MAY ISSUE FOR THE PROJECT. THIS REVIEW IS NOT TO BE CONSTRUED AS APPROVAL OF DETAILS BY SIKA AND IS NOT BEING CONDUCTED IN LIEU OF SOUND ENGINEERING AND ARCHITECTURAL PRACTICES AND JUDGMENT AND SHOULD NOT BE RELIED UPON FOR THAT PURPOSE. SIKA CORPORATION ASSUMES NO LIABILITY WITH RESPECT TO THE DESIGN OF THE ROOFING OR WATERPROOFING SYSTEM, THE ARCHITECT, CONSULTANT AND/OR ENGINEER OR DESIGN PROFESSIONAL FOR A PARTICULAR PROJECT BEARS THE SOLE RESPONSIBILITY FOR THE DESIGN OF THE ROOFING OR WATERPROOFING SYSTEM, FOR THE PREPARATION AND APPROVAL OF THE DETAILS AND SHOP DRAWINGS, AND FOR DETERMINING THEIR SUITABILITY FOR A PARTICULAR PROJECT OR APPLICATION. WHILE SIKA PROVIDES GENERAL INSTRUCTIONS FOR THE INSTALLATION OF ITS MEMBRANE AS WELL AS TRAINING FOR SIKA AUTHORIZED APPLICATORS, THE MEANS AND METHODS USED BY THE CONTRACTOR IN THE INSTALLATION OF THE SIKA MEMBRANE ARE THE RESPONSIBILITY OF THE CONTRACTOR. ALL SALE OF SIKA PRODUCTS AND SERVICES ARE SUBJECT TO SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT USA.SARNAFIL.SIKA.COM

BUILDING TRUST
781-828-5400 usa.sarnafil.sika.com
JOB NAME:
SCALE: N.T.S. | DATE: 08/21 | FILE NO.: 7-4 | DRW. NO.: XXX
AS A MEMBRANE MANUFACTURER, SIKA CORPORATION ("SIKA") REVIEWS DETAILS PREPARED BY THE CONSULTANT, ARCHITECT AND/OR ENGINEER FOR A PROJECT SOLELY FOR THE PURPOSE OF DETERMINING IF A SIKA WARRANTY MAY ISSUE FOR THE PROJECT. THIS REVIEW IS NOT TO BE CONSTRUED AS APPROVAL OF DETAILS BY SIKA AND IS NOT BEING CONDUCTED IN LIEU OF SOUND ENGINEERING AND ARCHITECTURAL PRACTICES AND JUDGMENT AND SHOULD NOT BE RELIED UPON FOR THAT PURPOSE. SIKA CORPORATION ASSUMES NO LIABILITY WITH RESPECT TO THE DESIGN OF THE ROOFING OR WATERPROOFING SYSTEM, THE ARCHITECT, CONSULTANT AND/OR ENGINEER OR DESIGN PROFESSIONAL FOR A PARTICULAR PROJECT BEARS THE SOLE RESPONSIBILITY FOR THE DESIGN OF THE ROOFING OR WATERPROOFING SYSTEM, FOR THE PREPARATION AND APPROVAL OF THE DETAILS AND SHOP DRAWINGS, AND FOR DETERMINING THEIR SUITABILITY FOR A PARTICULAR PROJECT OR APPLICATION. WHILE SIKA PROVIDES GENERAL INSTRUCTIONS FOR THE INSTALLATION OF ITS MEMBRANE AS WELL AS TRAINING FOR SIKA AUTHORIZED APPLICATORS, THE MEANS AND METHODS USED BY THE CONTRACTOR IN THE INSTALLATION OF THE SIKA MEMBRANE ARE THE RESPONSIBILITY OF THE CONTRACTOR. ALL SALE OF SIKA PRODUCTS AND SERVICES ARE SUBJECT TO SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT USA.SARNAFIL.SIKA.COM

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JOB NAME:
SCALE: N.T.S. | DATE: 05/21 | FILE NO.: 7-3 | DRW. NO.: XXX
AS A MEMBRANE MANUFACTURER, SIKA CORPORATION ("SIKA") REVIEWS DETAILS PREPARED BY THE CONSULTANT, ARCHITECT AND/OR ENGINEER FOR A PROJECT SOLELY FOR THE PURPOSE OF DETERMINING IF A SIKA WARRANTY MAY ISSUE FOR THE PROJECT. THIS REVIEW IS NOT TO BE CONSTRUED AS APPROVAL OF DETAILS BY SIKA AND IS NOT BEING CONDUCTED IN LIEU OF SOUND ENGINEERING AND ARCHITECTURAL PRACTICES AND JUDGMENT AND SHOULD NOT BE RELIED UPON FOR THAT PURPOSE. SIKA CORPORATION ASSUMES NO LIABILITY WITH RESPECT TO THE DESIGN OF THE ROOFING OR WATERPROOFING SYSTEM, THE ARCHITECT, CONSULTANT AND/OR ENGINEER OR DESIGN PROFESSIONAL FOR A PARTICULAR PROJECT BEARS THE SOLE RESPONSIBILITY FOR THE DESIGN OF THE ROOFING OR WATERPROOFING SYSTEM, FOR THE PREPARATION AND APPROVAL OF THE DETAILS AND SHOP DRAWINGS, AND FOR DETERMINING THEIR SUITABILITY FOR A PARTICULAR PROJECT OR APPLICATION. WHILE SIKA PROVIDES GENERAL INSTRUCTIONS FOR THE INSTALLATION OF ITS MEMBRANE AS WELL AS TRAINING FOR SIKA AUTHORIZED APPLICATORS, THE MEANS AND METHODS USED BY THE CONTRACTOR IN THE INSTALLATION OF THE SIKA MEMBRANE ARE THE RESPONSIBILITY OF THE CONTRACTOR. ALL SALE OF SIKA PRODUCTS AND SERVICES ARE SUBJECT TO SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT USA.SARNAFIL.SIKA.COM

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JOB NAME:
SCALE: N.T.S. | DATE: 05/21 | FILE NO.: 7-2 | DRW. NO.: XXX
AS A MEMBRANE MANUFACTURER, SIKA CORPORATION ("SIKA") REVIEWS DETAILS PREPARED BY THE CONSULTANT, ARCHITECT AND/OR ENGINEER FOR A PROJECT SOLELY FOR THE PURPOSE OF DETERMINING IF A SIKA WARRANTY MAY ISSUE FOR THE PROJECT. THIS REVIEW IS NOT TO BE CONSTRUED AS APPROVAL OF DETAILS BY SIKA AND IS NOT BEING CONDUCTED IN LIEU OF SOUND ENGINEERING AND ARCHITECTURAL PRACTICES AND JUDGMENT AND SHOULD NOT BE RELIED UPON FOR THAT PURPOSE. SIKA CORPORATION ASSUMES NO LIABILITY WITH RESPECT TO THE DESIGN OF THE ROOFING OR WATERPROOFING SYSTEM, THE ARCHITECT, CONSULTANT AND/OR ENGINEER OR DESIGN PROFESSIONAL FOR A PARTICULAR PROJECT BEARS THE SOLE RESPONSIBILITY FOR THE DESIGN OF THE ROOFING OR WATERPROOFING SYSTEM, FOR THE PREPARATION AND APPROVAL OF THE DETAILS AND SHOP DRAWINGS, AND FOR DETERMINING THEIR SUITABILITY FOR A PARTICULAR PROJECT OR APPLICATION. WHILE SIKA PROVIDES GENERAL INSTRUCTIONS FOR THE INSTALLATION OF ITS MEMBRANE AS WELL AS TRAINING FOR SIKA AUTHORIZED APPLICATORS, THE MEANS AND METHODS USED BY THE CONTRACTOR IN THE INSTALLATION OF THE SIKA MEMBRANE ARE THE RESPONSIBILITY OF THE CONTRACTOR. ALL SALE OF SIKA PRODUCTS AND SERVICES ARE SUBJECT TO SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT USA.SARNAFIL.SIKA.COM

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JOB NAME:
SCALE: N.T.S. | DATE: 05/21 | FILE NO.: 3-7 | DRW. NO.: XXX
AS A MEMBRANE MANUFACTURER, SIKA CORPORATION ("SIKA") REVIEWS DETAILS PREPARED BY THE CONSULTANT, ARCHITECT AND/OR ENGINEER FOR A PROJECT SOLELY FOR THE PURPOSE OF DETERMINING IF A SIKA WARRANTY MAY ISSUE FOR THE PROJECT. THIS REVIEW IS NOT TO BE CONSTRUED AS APPROVAL OF DETAILS BY SIKA AND IS NOT BEING CONDUCTED IN LIEU OF SOUND ENGINEERING AND ARCHITECTURAL PRACTICES AND JUDGMENT AND SHOULD NOT BE RELIED UPON FOR THAT PURPOSE. SIKA CORPORATION ASSUMES NO LIABILITY WITH RESPECT TO THE DESIGN OF THE ROOFING OR WATERPROOFING SYSTEM, THE ARCHITECT, CONSULTANT AND/OR ENGINEER OR DESIGN PROFESSIONAL FOR A PARTICULAR PROJECT BEARS THE SOLE RESPONSIBILITY FOR THE DESIGN OF THE ROOFING OR WATERPROOFING SYSTEM, FOR THE PREPARATION AND APPROVAL OF THE DETAILS AND SHOP DRAWINGS, AND FOR DETERMINING THEIR SUITABILITY FOR A PARTICULAR PROJECT OR APPLICATION. WHILE SIKA PROVIDES GENERAL INSTRUCTIONS FOR THE INSTALLATION OF ITS MEMBRANE AS WELL AS TRAINING FOR SIKA AUTHORIZED APPLICATORS, THE MEANS AND METHODS USED BY THE CONTRACTOR IN THE INSTALLATION OF THE SIKA MEMBRANE ARE THE RESPONSIBILITY OF THE CONTRACTOR. ALL SALE OF SIKA PRODUCTS AND SERVICES ARE SUBJECT TO SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT USA.SARNAFIL.SIKA.COM

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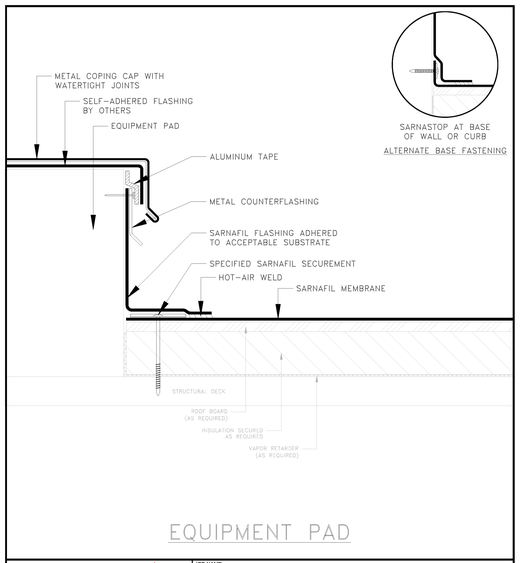
C-37366
01/31/2027
RENEWAL DATE
STATE OF CALIFORNIA

Sheet Name:
ROOFING DETAILS

Project No.: 24.05
Drawn By: Author
Checked By: Checker
Scale:

Sheet No.: A811



EQUIPMENT PAD

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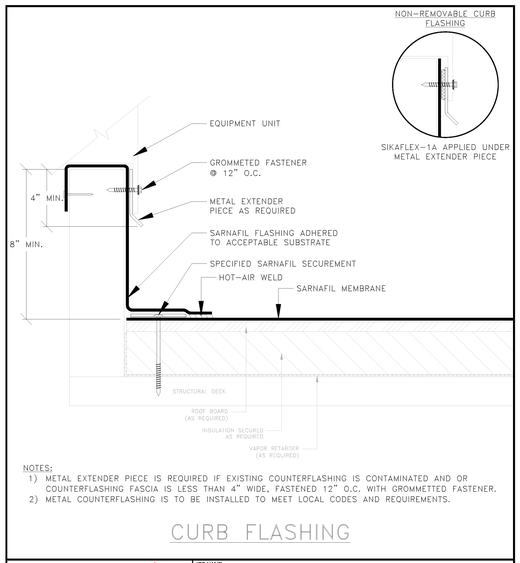
JOB NAME:

SCALE:	DATE:	FILE NO.:	DRW. NO.:
N.T.S.	05/21	5-4	XXX

AS A MEMBRANE MANUFACTURER, SIKA CORPORATION ("SIKA") REVIEWS DETAILS PREPARED BY THE CONSULTANT, ARCHITECT AND/OR ENGINEER FOR A PROJECT SOLELY FOR THE PURPOSE OF DETERMINING IF A SIKA WARRANTY MAY ISSUE FOR THE PROJECT. THIS REVIEW IS NOT TO BE CONSTRUED AS APPROVAL OF DETAILS BY SIKA AND IS NOT BEING CONDUCTED IN LIEU OF SOUND ENGINEERING AND ARCHITECTURAL PRACTICES AND JUDGMENT AND SHOULD NOT BE RELIED UPON FOR THAT PURPOSE. SIKA CORPORATION ASSUMES NO LIABILITY WITH RESPECT TO THE DESIGN OF THE ROOFING OR WATERPROOFING SYSTEM, THE ARCHITECT, CONSULTANT AND/OR ENGINEER OR DESIGN PROFESSIONAL FOR A PARTICULAR PROJECT BEARS THE SOLE RESPONSIBILITY FOR THE DESIGN OF THE ROOFING OR WATERPROOFING SYSTEM, FOR THE PREPARATION AND APPROVAL OF THE DETAILS AND SHOP DRAWINGS, AND FOR DETERMINING THEIR SUITABILITY FOR A PARTICULAR PROJECT OR APPLICATION. WHILE SIKA PROVIDES GENERAL INSTRUCTIONS FOR THE INSTALLATION OF ITS MEMBRANES AS WELL AS TRAINING FOR SIKA AUTHORIZED APPLICATORS, THE MEANS AND METHODS USED BY THE CONTRACTOR FOR SURFACE PREPARATION AS WELL AS THE MEANS AND METHODS EMPLOYED BY THE CONTRACTOR IN THE INSTALLATION OF THE SIKA MEMBRANE ARE THE RESPONSIBILITY OF THE CONTRACTOR. ALL SALE OF SIKA PRODUCTS AND SERVICES ARE SUBJECT TO SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT USA.SARNAFIL.SIKA.COM.



NOTES:
1) METAL EXTENDER PIECE IS REQUIRED IF EXISTING COUNTERFLASHING IS CONTAMINATED AND OR COUNTERFLASHING FASCIA IS LESS THAN 4" WIDE, FASTENED 12" O.C. WITH GROMMETTED FASTENER.
2) METAL COUNTERFLASHING IS TO BE INSTALLED TO MEET LOCAL CODES AND REQUIREMENTS.

CURB FLASHING

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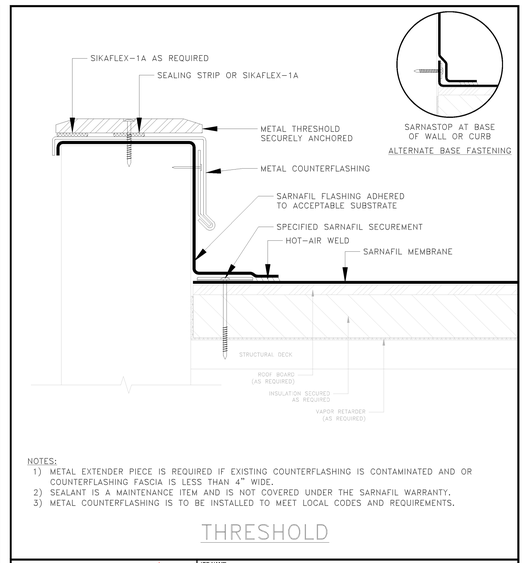
JOB NAME:

SCALE:	DATE:	FILE NO.:	DRW. NO.:
N.T.S.	05/21	5-1	XXX

AS A MEMBRANE MANUFACTURER, SIKA CORPORATION ("SIKA") REVIEWS DETAILS PREPARED BY THE CONSULTANT, ARCHITECT AND/OR ENGINEER FOR A PROJECT SOLELY FOR THE PURPOSE OF DETERMINING IF A SIKA WARRANTY MAY ISSUE FOR THE PROJECT. THIS REVIEW IS NOT TO BE CONSTRUED AS APPROVAL OF DETAILS BY SIKA AND IS NOT BEING CONDUCTED IN LIEU OF SOUND ENGINEERING AND ARCHITECTURAL PRACTICES AND JUDGMENT AND SHOULD NOT BE RELIED UPON FOR THAT PURPOSE. SIKA CORPORATION ASSUMES NO LIABILITY WITH RESPECT TO THE DESIGN OF THE ROOFING OR WATERPROOFING SYSTEM, THE ARCHITECT, CONSULTANT AND/OR ENGINEER OR DESIGN PROFESSIONAL FOR A PARTICULAR PROJECT BEARS THE SOLE RESPONSIBILITY FOR THE DESIGN OF THE ROOFING OR WATERPROOFING SYSTEM, FOR THE PREPARATION AND APPROVAL OF THE DETAILS AND SHOP DRAWINGS, AND FOR DETERMINING THEIR SUITABILITY FOR A PARTICULAR PROJECT OR APPLICATION. WHILE SIKA PROVIDES GENERAL INSTRUCTIONS FOR THE INSTALLATION OF ITS MEMBRANES AS WELL AS TRAINING FOR SIKA AUTHORIZED APPLICATORS, THE MEANS AND METHODS USED BY THE CONTRACTOR FOR SURFACE PREPARATION AS WELL AS THE MEANS AND METHODS EMPLOYED BY THE CONTRACTOR IN THE INSTALLATION OF THE SIKA MEMBRANE ARE THE RESPONSIBILITY OF THE CONTRACTOR. ALL SALE OF SIKA PRODUCTS AND SERVICES ARE SUBJECT TO SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT USA.SARNAFIL.SIKA.COM.



NOTES:
1) METAL EXTENDER PIECE IS REQUIRED IF EXISTING COUNTERFLASHING IS CONTAMINATED AND OR COUNTERFLASHING FASCIA IS LESS THAN 4" WIDE.
2) SEALANT IS A MAINTENANCE ITEM AND IS NOT COVERED UNDER THE SARNAFIL WARRANTY.
3) METAL COUNTERFLASHING IS TO BE INSTALLED TO MEET LOCAL CODES AND REQUIREMENTS.

THRESHOLD

BUILDING TRUST
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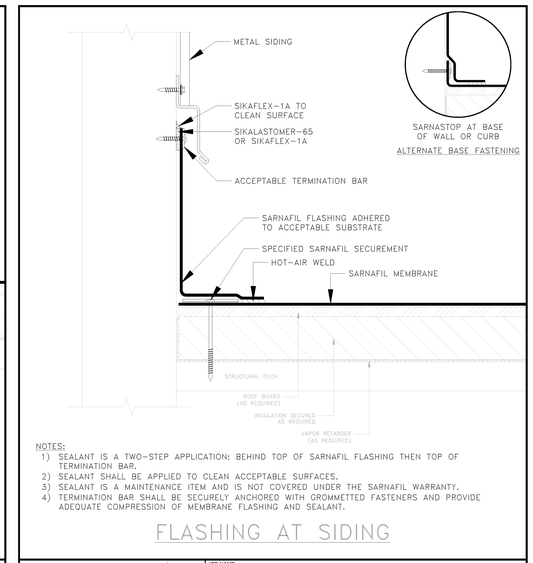
JOB NAME:

SCALE:	DATE:	FILE NO.:	DRW. NO.:
N.T.S.	05/21	3-5	XXX

AS A MEMBRANE MANUFACTURER, SIKA CORPORATION ("SIKA") REVIEWS DETAILS PREPARED BY THE CONSULTANT, ARCHITECT AND/OR ENGINEER FOR A PROJECT SOLELY FOR THE PURPOSE OF DETERMINING IF A SIKA WARRANTY MAY ISSUE FOR THE PROJECT. THIS REVIEW IS NOT TO BE CONSTRUED AS APPROVAL OF DETAILS BY SIKA AND IS NOT BEING CONDUCTED IN LIEU OF SOUND ENGINEERING AND ARCHITECTURAL PRACTICES AND JUDGMENT AND SHOULD NOT BE RELIED UPON FOR THAT PURPOSE. SIKA CORPORATION ASSUMES NO LIABILITY WITH RESPECT TO THE DESIGN OF THE ROOFING OR WATERPROOFING SYSTEM, THE ARCHITECT, CONSULTANT AND/OR ENGINEER OR DESIGN PROFESSIONAL FOR A PARTICULAR PROJECT BEARS THE SOLE RESPONSIBILITY FOR THE DESIGN OF THE ROOFING OR WATERPROOFING SYSTEM, FOR THE PREPARATION AND APPROVAL OF THE DETAILS AND SHOP DRAWINGS, AND FOR DETERMINING THEIR SUITABILITY FOR A PARTICULAR PROJECT OR APPLICATION. WHILE SIKA PROVIDES GENERAL INSTRUCTIONS FOR THE INSTALLATION OF ITS MEMBRANES AS WELL AS TRAINING FOR SIKA AUTHORIZED APPLICATORS, THE MEANS AND METHODS USED BY THE CONTRACTOR FOR SURFACE PREPARATION AS WELL AS THE MEANS AND METHODS EMPLOYED BY THE CONTRACTOR IN THE INSTALLATION OF THE SIKA MEMBRANE ARE THE RESPONSIBILITY OF THE CONTRACTOR. ALL SALE OF SIKA PRODUCTS AND SERVICES ARE SUBJECT TO SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT USA.SARNAFIL.SIKA.COM.



NOTES:
1) SEALANT IS A TWO-STEP APPLICATION; BEHIND TOP OF SARNAFIL FLASHING THEN TOP OF TERMINATION BAR.
2) SEALANT SHALL BE APPLIED TO CLEAN ACCEPTABLE SURFACES.
3) SEALANT IS A MAINTENANCE ITEM AND IS NOT COVERED UNDER THE SARNAFIL WARRANTY.
4) TERMINATION BAR SHALL BE SECURELY ANCHORED WITH GROMMETTED FASTENERS AND PROVIDE ADEQUATE COMPRESSION OF MEMBRANE FLASHING AND SEALANT.

FLASHING AT SIDING

BUILDING TRUST
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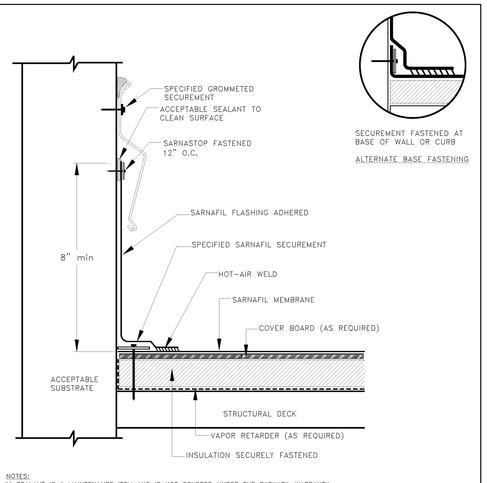
JOB NAME:

SCALE:	DATE:	FILE NO.:	DRW. NO.:
N.T.S.	05/21	3-4	XXX

AS A MEMBRANE MANUFACTURER, SIKA CORPORATION ("SIKA") REVIEWS DETAILS PREPARED BY THE CONSULTANT, ARCHITECT AND/OR ENGINEER FOR A PROJECT SOLELY FOR THE PURPOSE OF DETERMINING IF A SIKA WARRANTY MAY ISSUE FOR THE PROJECT. THIS REVIEW IS NOT TO BE CONSTRUED AS APPROVAL OF DETAILS BY SIKA AND IS NOT BEING CONDUCTED IN LIEU OF SOUND ENGINEERING AND ARCHITECTURAL PRACTICES AND JUDGMENT AND SHOULD NOT BE RELIED UPON FOR THAT PURPOSE. SIKA CORPORATION ASSUMES NO LIABILITY WITH RESPECT TO THE DESIGN OF THE ROOFING OR WATERPROOFING SYSTEM, THE ARCHITECT, CONSULTANT AND/OR ENGINEER OR DESIGN PROFESSIONAL FOR A PARTICULAR PROJECT BEARS THE SOLE RESPONSIBILITY FOR THE DESIGN OF THE ROOFING OR WATERPROOFING SYSTEM, FOR THE PREPARATION AND APPROVAL OF THE DETAILS AND SHOP DRAWINGS, AND FOR DETERMINING THEIR SUITABILITY FOR A PARTICULAR PROJECT OR APPLICATION. WHILE SIKA PROVIDES GENERAL INSTRUCTIONS FOR THE INSTALLATION OF ITS MEMBRANES AS WELL AS TRAINING FOR SIKA AUTHORIZED APPLICATORS, THE MEANS AND METHODS USED BY THE CONTRACTOR FOR SURFACE PREPARATION AS WELL AS THE MEANS AND METHODS EMPLOYED BY THE CONTRACTOR IN THE INSTALLATION OF THE SIKA MEMBRANE ARE THE RESPONSIBILITY OF THE CONTRACTOR. ALL SALE OF SIKA PRODUCTS AND SERVICES ARE SUBJECT TO SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT USA.SARNAFIL.SIKA.COM.



NOTES:
1) SEALANT IS A MAINTENANCE ITEM AND IS NOT COVERED UNDER THE SARNAFIL WARRANTY.
2) VAPOR RETARDER SHALL BE SEALED AT EDGES.

SURFACE MOUNTED COUNTER FLASHING

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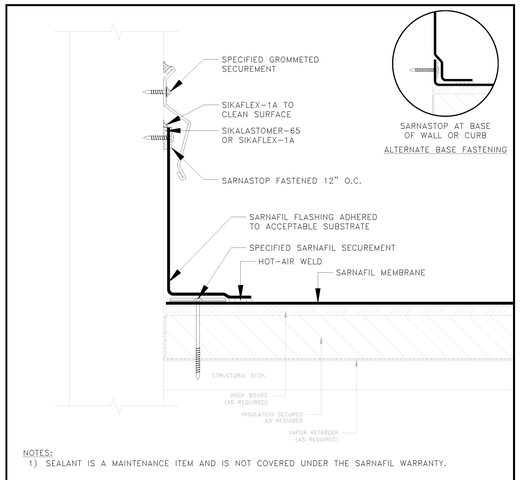
JOB NAME:

SCALE:	DATE:	FILE NO.:	DRW. NO.:
N.T.S.	2/19	3-3A	XXX

AS A MEMBRANE MANUFACTURER, SIKA CORPORATION ("SIKA") REVIEWS DETAILS PREPARED BY THE CONSULTANT, ARCHITECT AND/OR ENGINEER FOR A PROJECT SOLELY FOR THE PURPOSE OF DETERMINING IF A SIKA WARRANTY MAY ISSUE FOR THE PROJECT. THIS REVIEW IS NOT TO BE CONSTRUED AS APPROVAL OF DETAILS BY SIKA AND IS NOT BEING CONDUCTED IN LIEU OF SOUND ENGINEERING AND ARCHITECTURAL PRACTICES AND JUDGMENT AND SHOULD NOT BE RELIED UPON FOR THAT PURPOSE. SIKA CORPORATION ASSUMES NO LIABILITY WITH RESPECT TO THE DESIGN OF THE ROOFING OR WATERPROOFING SYSTEM, THE ARCHITECT, CONSULTANT AND/OR ENGINEER OR DESIGN PROFESSIONAL FOR A PARTICULAR PROJECT BEARS THE SOLE RESPONSIBILITY FOR THE DESIGN OF THE ROOFING OR WATERPROOFING SYSTEM, FOR THE PREPARATION AND APPROVAL OF THE DETAILS AND SHOP DRAWINGS, AND FOR DETERMINING THEIR SUITABILITY FOR A PARTICULAR PROJECT OR APPLICATION. WHILE SIKA PROVIDES GENERAL INSTRUCTIONS FOR THE INSTALLATION OF ITS MEMBRANES AS WELL AS TRAINING FOR SIKA AUTHORIZED APPLICATORS, THE MEANS AND METHODS USED BY THE CONTRACTOR FOR SURFACE PREPARATION AS WELL AS THE MEANS AND METHODS EMPLOYED BY THE CONTRACTOR IN THE INSTALLATION OF THE SIKA MEMBRANE ARE THE RESPONSIBILITY OF THE CONTRACTOR. ALL SALE OF SIKA PRODUCTS AND SERVICES ARE SUBJECT TO SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT USA.SARNAFIL.SIKA.COM.



NOTES:
1) SEALANT IS A MAINTENANCE ITEM AND IS NOT COVERED UNDER THE SARNAFIL WARRANTY.

SURFACE MOUNTED COUNTERFLASHING

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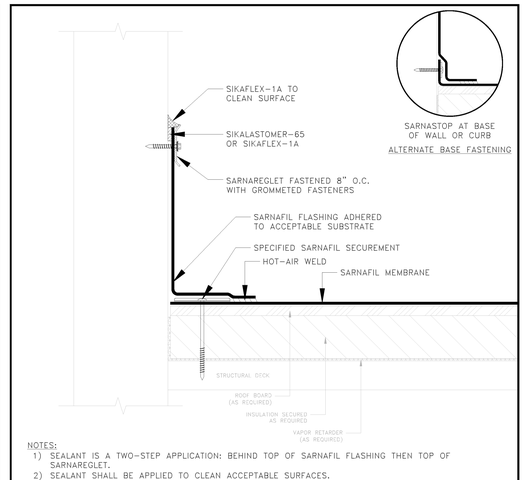
JOB NAME:

SCALE:	DATE:	FILE NO.:	DRW. NO.:
N.T.S.	05/21	3-2B	XXX

AS A MEMBRANE MANUFACTURER, SIKA CORPORATION ("SIKA") REVIEWS DETAILS PREPARED BY THE CONSULTANT, ARCHITECT AND/OR ENGINEER FOR A PROJECT SOLELY FOR THE PURPOSE OF DETERMINING IF A SIKA WARRANTY MAY ISSUE FOR THE PROJECT. THIS REVIEW IS NOT TO BE CONSTRUED AS APPROVAL OF DETAILS BY SIKA AND IS NOT BEING CONDUCTED IN LIEU OF SOUND ENGINEERING AND ARCHITECTURAL PRACTICES AND JUDGMENT AND SHOULD NOT BE RELIED UPON FOR THAT PURPOSE. SIKA CORPORATION ASSUMES NO LIABILITY WITH RESPECT TO THE DESIGN OF THE ROOFING OR WATERPROOFING SYSTEM, THE ARCHITECT, CONSULTANT AND/OR ENGINEER OR DESIGN PROFESSIONAL FOR A PARTICULAR PROJECT BEARS THE SOLE RESPONSIBILITY FOR THE DESIGN OF THE ROOFING OR WATERPROOFING SYSTEM, FOR THE PREPARATION AND APPROVAL OF THE DETAILS AND SHOP DRAWINGS, AND FOR DETERMINING THEIR SUITABILITY FOR A PARTICULAR PROJECT OR APPLICATION. WHILE SIKA PROVIDES GENERAL INSTRUCTIONS FOR THE INSTALLATION OF ITS MEMBRANES AS WELL AS TRAINING FOR SIKA AUTHORIZED APPLICATORS, THE MEANS AND METHODS USED BY THE CONTRACTOR FOR SURFACE PREPARATION AS WELL AS THE MEANS AND METHODS EMPLOYED BY THE CONTRACTOR IN THE INSTALLATION OF THE SIKA MEMBRANE ARE THE RESPONSIBILITY OF THE CONTRACTOR. ALL SALE OF SIKA PRODUCTS AND SERVICES ARE SUBJECT TO SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT USA.SARNAFIL.SIKA.COM.



NOTES:
1) SEALANT IS A TWO-STEP APPLICATION: BEHIND TOP OF SARNAFIL FLASHING THEN TOP OF SARNAREGLET.
2) SEALANT SHALL BE APPLIED TO CLEAN ACCEPTABLE SURFACES.
3) SEALANT IS A MAINTENANCE ITEM AND IS NOT COVERED UNDER THE SARNAFIL WARRANTY.
4) SARNAREGLET SHALL BE SECURELY ANCHORED WITH GROMMETTED FASTENERS AND PROVIDE ADEQUATE COMPRESSION OF MEMBRANE FLASHING AND SEALANT.

SARNAREGLET TERMINATION

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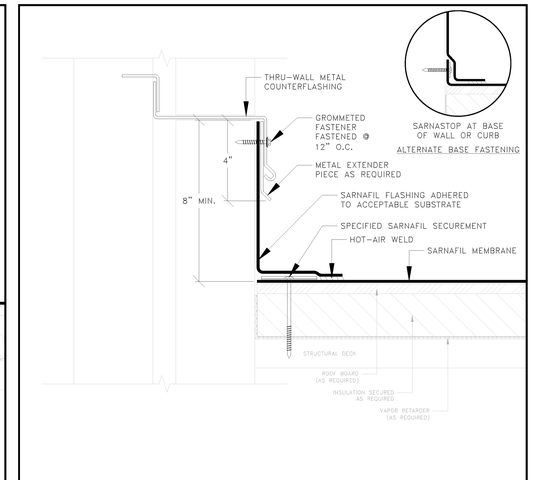
JOB NAME:

SCALE:	DATE:	FILE NO.:	DRW. NO.:
N.T.S.	05/21	3-2A	XXX

AS A MEMBRANE MANUFACTURER, SIKA CORPORATION ("SIKA") REVIEWS DETAILS PREPARED BY THE CONSULTANT, ARCHITECT AND/OR ENGINEER FOR A PROJECT SOLELY FOR THE PURPOSE OF DETERMINING IF A SIKA WARRANTY MAY ISSUE FOR THE PROJECT. THIS REVIEW IS NOT TO BE CONSTRUED AS APPROVAL OF DETAILS BY SIKA AND IS NOT BEING CONDUCTED IN LIEU OF SOUND ENGINEERING AND ARCHITECTURAL PRACTICES AND JUDGMENT AND SHOULD NOT BE RELIED UPON FOR THAT PURPOSE. SIKA CORPORATION ASSUMES NO LIABILITY WITH RESPECT TO THE DESIGN OF THE ROOFING OR WATERPROOFING SYSTEM, THE ARCHITECT, CONSULTANT AND/OR ENGINEER OR DESIGN PROFESSIONAL FOR A PARTICULAR PROJECT BEARS THE SOLE RESPONSIBILITY FOR THE DESIGN OF THE ROOFING OR WATERPROOFING SYSTEM, FOR THE PREPARATION AND APPROVAL OF THE DETAILS AND SHOP DRAWINGS, AND FOR DETERMINING THEIR SUITABILITY FOR A PARTICULAR PROJECT OR APPLICATION. WHILE SIKA PROVIDES GENERAL INSTRUCTIONS FOR THE INSTALLATION OF ITS MEMBRANES AS WELL AS TRAINING FOR SIKA AUTHORIZED APPLICATORS, THE MEANS AND METHODS USED BY THE CONTRACTOR FOR SURFACE PREPARATION AS WELL AS THE MEANS AND METHODS EMPLOYED BY THE CONTRACTOR IN THE INSTALLATION OF THE SIKA MEMBRANE ARE THE RESPONSIBILITY OF THE CONTRACTOR. ALL SALE OF SIKA PRODUCTS AND SERVICES ARE SUBJECT TO SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT USA.SARNAFIL.SIKA.COM.



THRU-WALL COUNTERFLASHING

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JOB NAME:

SCALE:	DATE:	FILE NO.:	DRW. NO.:
N.T.S.	05/21	3-1	XXX

AS A MEMBRANE MANUFACTURER, SIKA CORPORATION ("SIKA") REVIEWS DETAILS PREPARED BY THE CONSULTANT, ARCHITECT AND/OR ENGINEER FOR A PROJECT SOLELY FOR THE PURPOSE OF DETERMINING IF A SIKA WARRANTY MAY ISSUE FOR THE PROJECT. THIS REVIEW IS NOT TO BE CONSTRUED AS APPROVAL OF DETAILS BY SIKA AND IS NOT BEING CONDUCTED IN LIEU OF SOUND ENGINEERING AND ARCHITECTURAL PRACTICES AND JUDGMENT AND SHOULD NOT BE RELIED UPON FOR THAT PURPOSE. SIKA CORPORATION ASSUMES NO LIABILITY WITH RESPECT TO THE DESIGN OF THE ROOFING OR WATERPROOFING SYSTEM, THE ARCHITECT, CONSULTANT AND/OR ENGINEER OR DESIGN PROFESSIONAL FOR A PARTICULAR PROJECT BEARS THE SOLE RESPONSIBILITY FOR THE DESIGN OF THE ROOFING OR WATERPROOFING SYSTEM, FOR THE PREPARATION AND APPROVAL OF THE DETAILS AND SHOP DRAWINGS, AND FOR DETERMINING THEIR SUITABILITY FOR A PARTICULAR PROJECT OR APPLICATION. WHILE SIKA PROVIDES GENERAL INSTRUCTIONS FOR THE INSTALLATION OF ITS MEMBRANES AS WELL AS TRAINING FOR SIKA AUTHORIZED APPLICATORS, THE MEANS AND METHODS USED BY THE CONTRACTOR FOR SURFACE PREPARATION AS WELL AS THE MEANS AND METHODS EMPLOYED BY THE CONTRACTOR IN THE INSTALLATION OF THE SIKA MEMBRANE ARE THE RESPONSIBILITY OF THE CONTRACTOR. ALL SALE OF SIKA PRODUCTS AND SERVICES ARE SUBJECT TO SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT USA.SARNAFIL.SIKA.COM.

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	90% CONSTRUCTION DOCUMENT	08 AUG 2025
	ISSUED FOR PERMIT REVISION 1	08 AUG 2025
	ISSUED FOR BID	13 OCT 2025

Seal & Signature:

LICENSED ARCHITECT
JEFFREY MILLER
C-37366
01/31/2027
RENEWAL
STATE OF CALIFORNIA

Sheet Name:

ROOFING DETAILS

Project No.:	Sheet No.:
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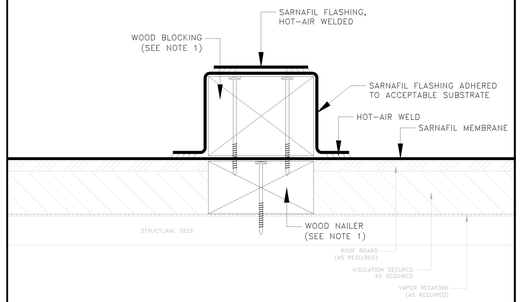

NOTES:
1) WEIGHT OF UNIT TO BE EVENLY DISTRIBUTED OVER CROSS-SECTIONAL AREA OF EXPOSED WOOD NAILER.
2) IF WEIGHT OF UNIT EXCEEDS MAXIMUM ALLOWED BY INSULATION MANUFACTURER, A WOOD NAILER BELOW THE SARNAFIL MEMBRANE IS REQUIRED.

PROTECTED WOOD SLEEPER

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N.T.S.	05/21	8-1	XXX

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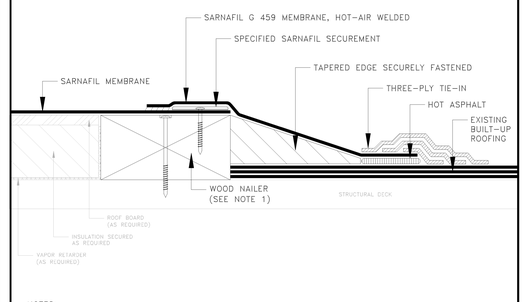

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2) REMOVE ALL GRAVEL AT TIE-IN AREA.
3) CONSULT SIKA SARNAFIL FOR RECOMMENDATIONS FOR TIE-IN TO COAL-TAR PITCH.

TEMPORARY TIE-IN TO EXISTING B.U.R.

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SCALE:	DATE:	FILE NO.:	DRW. NO.:
N.T.S.	05/21	10-1	XXX

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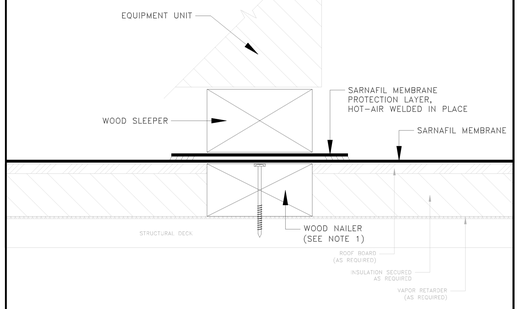

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EXPOSED SLEEPER

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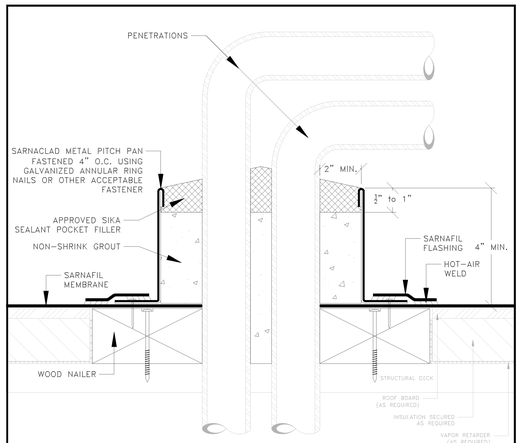

NOTES:
1) PITCH POCKETS ARE TO BE ELIMINATED WHERE POSSIBLE.
2) SEALANT IS A MAINTENANCE ITEM AND IS NOT COVERED UNDER THE SARNAFIL WARRANTY.

SEALANT POCKET

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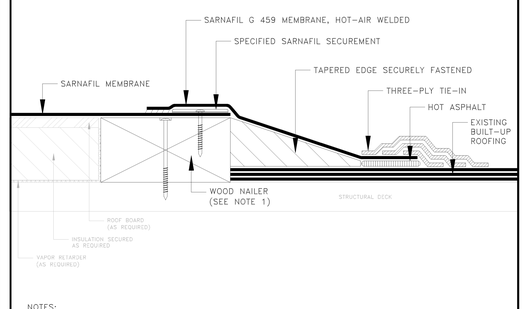

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TEMPORARY TIE-IN TO EXISTING B.U.R.

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JEFFREY MILLER
C-37366
01/31/2027
RENEWAL DATE
STATE OF CALIFORNIA

Sheet Name:
ROOFING DETAILS

Project No.: 24.05
Drawn By: Author
Checked By: Checker
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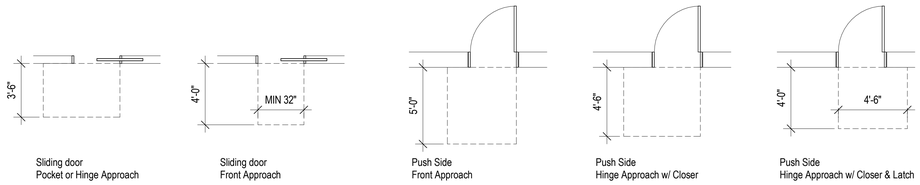
Sheet No.:
A813

DOOR ACCESSIBILITY



WINDOW SCHEDULE

WINDOW SCHEDULE				
TYPE MARK	WIDTH	HEIGHT	DESCRIPTION	COMMENTS
(E)G	1'-0"	6'-3"	FIXED FRAME WINDOW	1/4" CLEAR PLATED GLASS
(E)H	2'-7"	9'-6"	FIXED FRAME WINDOW	1/4" CLEAR PLATED GLASS
(E)I	2'-7"	6'-3"	FIXED FRAME WINDOW	1/4" CLEAR PLATED GLASS
A	4'-6"	9'-6"	SF-01 STOREFRONT	KAWNEER 1600 OR EQ, WITH 1/2" VEI-48 INFILL GLAZING AND 3 COAT KYNAR FINISH

NOTES:

1) ALL EXTERIOR WINDOWS ARE TO BE REGLAZED WITH VE1-48 (VIRACON) INSULATED GLASS UNITS

DOOR SCHEDULE																		
		DOOR					FRAME			DETAIL								
NUMBER	From Room: Name	TYPE	WIDTH	HEIGHT	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	SILL	JAMB	HEAD	LABEL/RATING	SMOKE	ACT	HDWR	COMMENTS
(E)5	STAFF ROOM	N	6'-0"	7'-0"	EXISTING	PT-11	M	EXISTING	PT-11				-			-	EXISITING STAFF ENTRANCE; MODIFY AS REQ'D FOR NEW SECURITY SYSTEM
(E)10	LOBBY	-	6'-0"	9'-3 1/2"	EXISTING	CLR COAT	-	EXISTING	CLR COAT	-						-	REFINISH DOOR AND ADJACENT WINDOW WALL
(E)17	OFFICE	-	2'-10"	9'-3 1/2"	EXISTING	CLR COAT	-	EXISTING	CLR COAT	-	-	-				01C	EXISITING MAINTAINENANCE GATE
(E)33	MULTI - PURPOSE ROOM	F	4'-0"	7'-0"		STAIN	F		FIN-1				-				
(E)35	PATIO	F	3'-8"	6'-8"	EXISTING	EXISTING	M	EXISTING					-				
(E)36	CHILDREN PATIO	F	3'-8"	6'-8"	EXISTING	PT-11	M	EXISTING	PT-11				-			-	EXISTING MAINTAINENANCE GATE
(E) 31	BOOKSTORE	F	3'-0"	7'-0"		STAIN	F						-				
(E) 32	MULTI - PURPOSE ROOM	F	5'-6"	7'-0"	EXISTING	STAIN	D	EXISTING	STAIN	-	-	-	-				REFINISH DOOR AND FRAME,REPLACE SEALS
(E) 37	TRASH	F	5'-6"	9'-6"	HM	PT-11	-	EXISTING	PT-11				-			-	REPAINT AND REPLACE HDWR AS REQ'D
01A	ADULT STACKS	SF	3'-0"	7'-0"	GL/AL		SF-01						-			01B	DOOR CONTACTS AND PANIC HARDWARE
02A	CHECK OUT AREA		3'-0"	9'-4"	GL/AL			AL									
02B	CHECK OUT AREA	SF-01	3'-0"	9'-4"	GL/AL	FIN-01/GL-02	SF-01	AL	FIN-01							01C	DOOR CONTACTS
03A	(E) CHILDREN PATIO	SF-01	3'-0"	9'-4"	GL/AL	FIN-01/GL-02	SF-01	AL	FIN-01							01C	DOOR CONTACTS
05A	UTILITY	F	3'-0"	7'-0"	HM		F	HM	PT-01	04/A901	10/A901	09/A901	-			03	
06A	ELEC ROOM	F	3'-0"	9'-6"	HM	PT-11	T	HM	PT-11	04/A901	06/A901	05/A901	-			07	7' DOOR WITH TRANSOM AND PANIC
07A	FAMILY RR	F	3'-0"	7'-0"	WD	STAIN	F	HM	PTD	01/A901	02/A901	03/A901	-		A	02B	
08A	FAMILY RR	F	3'-0"	7'-0"	WD	PTD	F	HM	PTD	01/A901	02/A901	03/A901	-		A	02B	
15A	STAFF PATIO	SF-01	3'-0"	7'-10"	GL/AL	FIN-01/GL-02	SF-01	AL	FIN-01							01B	DOOR CONTACTS AND PANIC HARDWARE
15B	STAFF LOUNGE		5'-0"	7'-0"	WD			WD								05	
17A	STAFF RR	F	3'-0"	7'-0"	WD	VENEER	F	HM	PTD	01/A901	02/A901	03/A901	-		A	02B	
17B	STAFF RR	F	5'-0"	7'-0"	WD	VENEER	D	HM	PTD	01/A901	02/A901	03/A901				05	
18A	STAFF ROOM	F	3'-0"	7'-0"	HM	PTD	F	HM	PTD	04/A901	06/A901	05/A901	-			06	
18B	STAFF ROOM	N	3'-0"	7'-0"	WD	WD - 01A	F	WD	STAIN	04/A901	10/A901	09/A901				06	STAIN TO MATCH ADJACENT WOOD WINDOW WALL
18C	STAFF ROOM	F	3'-0"	7'-0"	HM	PTD	M	HM	PTD	05/A901	06/A901	05/A901	-				
19A	WOMENS ROOM	F	3'-0"	7'-0"	WD	VENEER	WD	HM	PTD	01/A901	02/A901	03/A901	-			02A	
20A	MENS ROOM	F	3'-0"	7'-0"	WD	VENEER	M	HM	PTD	01/A901	02/A901	03/A901	-			02A	
21A	LOBBY	BY MFR	12'-5 1/4"	9'-6"	GL/AL	GL-2A	BY MFR	AL	FIN-1							01A	BI PARTING SLIDING DOORS, HIGH / LOW ADA ACTUATORS, D.O.=6'
21B	LOBBY	BY MFR	12'-5"	9'-6"		GL-2A	BY MFR		FIN-1								
22A	OFFICE	F	3'-0"	7'-0"	WD	WD - 01A	M	WD	PTD	04/A901	06/A901	05/A901	-			04	
23A	MULTI - PURPOSE ROOM	SF-01	2'-11 1/4"	9'-4 1/2"	GL/AL	FIN-01/GL-02	SF-01	AL	FIN-1							01B	DOOR CONTACTS AND PANIC HARDWARE
24A	BOOKSTORE	FG	3'-0"	7'-0"	WD	GL-02	SL	WD	STAIN	04/A901	10/A901	09/A901	-			06	STAIN TO MATCH DOOR (E)32

NOTES:

1) REPLACE STOREFRONT IN MATCHING DIMENSIONS WITH THERMALLY BROKEN SSG SYSTEM, KAWNEER 1600 OR EQ, WITH VEI-48 INFILL GLAZING AND 3 COAT KYNAR FINISH

2) EXISTING DOOR NUMBERS CORRESPOND TO CALLOUT FROM RECORD DRAWINGS. REFER TO EXISTING DRAWINGS FOR ADDITIONAL INFORMATION REGARDING THE DOORS AND FRAMES. VERIFY IN FIELD.

3) SAND AND REFINISH EXISTING WOOD FRAMES WITH MATTE FINISH POLYURETHANE COATING.

4) REFER TO A5 AND A8 SERIES FOR DETAIL CALLOUTS OF EXTERIOR STOREFRONT DOORS

5) WHERE DOORS ARE CALLED OUT AS PTD, PAINT TO MATCH EXISTING WALL WITH SATIN FINISH.

6) REFER TO INTEGRATED SYSTEMS DRAWINGS FOR ADDITIONAL DOOR CONTROL REQUIREMENTS.

DOOR SCHEDULE LEGEND

ADO	AUTOMATIC DOOR OPENER
AL	ALUMINUM
AN	ANODIZED CLEAR
CR	CARD READER
EXT	EXTERIOR
FIN	HIGH PERFORMANCE COATING
FS	FAIL SAFE
FSE	FAIL SECURE
GALV	GALVANIZED
GL	GLASS
HO	HOLD OPEN
HM	HOLLOW METAL
IC	INTERCOM
INT	INTERIOR
KP	KEYPAD
NIC	NOT IN CONTRACT
PWC	POWDER COAT (COLOR TBD)
PTD	PAINTED (COLOR TBD)
SSC	SMOKE SEALED CONSTRUCTION
ST STL	STAINLESS STEEL
S/S	ACOUSTIC SEALS / SHOES
WD	WOOD
"-"	NOT RATED
ST	STEEL

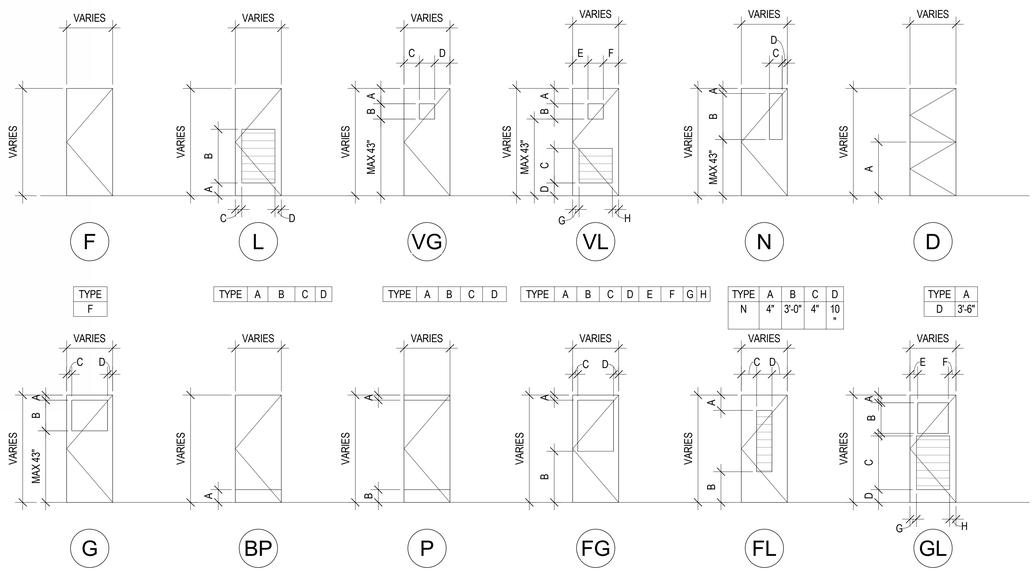
DOOR PANEL KEY:

F - FLUSH DOOR
L - LOUVER DOOR
V - VISION GLASS
VL - VISION & LOUVER
N - NARROW WINDOW
D - DUTCH DOOR
G - GLASS DOOR WITH WINDOW
P - PIVOT DOOR
PB - PIVOT BOTTOM
FG - FULL GLASS DOOR
FL - FULL LOUVER DOOR
GL - GLASS WINDOW & LOUVER

DOOR FRAME KEY:

F - TYPICAL FRAME
D - DOUBLE DOOR
V - VISION LIGHT
T - TRANSOM
SL - SIDE LIGHT
M - Masonry
SG - SLIDING

DOOR PANELS



TYPE	A	B	C	D
F				

TYPE	A	B	C	D
L				

TYPE	A	B	C	D
VG				

TYPE	A	B	C	D	E	F	G	H
VL								

TYPE	A	B	C	D
N	4"	3'-0"	4"	10"

TYPE	A
D	3'-6"

TYPE	A	B	C	D
G				

TYPE	A
BP	

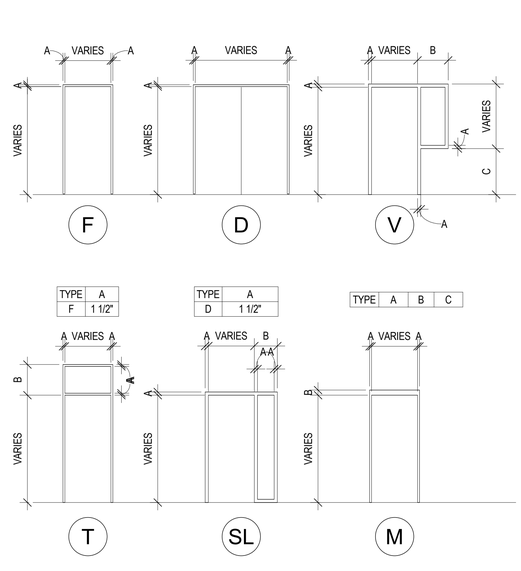
TYPE	A	B
P		

TYPE	A	B	C	D
FG1	2 1/2"	2 1/2"	2 1/2"	2 1/2"

TYPE	A	B	C	D
FL				

TYPE	A	B	C	D	E	F	G	H
GL								

DOOR FRAMES



TYPE	A
F	1 1/2"

TYPE	A
D	1 1/2"

TYPE	A	B	C
V			

TYPE	A
T	

TYPE	A	B
SL	<varies>	1'-3 1/2"

TYPE	A	B
M		

GOLETA LIBRARY

CITY OF GOLETA

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Goleta, CA 93117

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Consultants:
kpff

Consultants:
UPLA STUDIO

Consultants:
INTERFACE ENGINEERING

Consultants:
JENSEN HUGHES

Issued For:

No.	Description:	Date:
	100% SCHEMATIC DESIGN	11 OCT 2024
	100% DESIGN DEVELOPMENT	22 NOV 2024
	60% CONSTRUCTION DOCUMENT	07 MAR 2025
	ISSUED FOR PERMIT	20 MAR 2025
	90% CONSTRUCTION DOCUMENT	08 AUG 2025
	ISSUED FOR PERMIT REVISION 1	08 AUG 2025
	ISSUED FOR BID	13 OCT 2025

Seal & Signature:

LICENSED ARCHITECT
JEFFREY MILLER
C-37366
01/31/2027
RENEWAL
STATE OF CALIFORNIA

Sheet Name:

DOOR & WINDOW SCHEDULE

Project No.: 24.05
Drawn By: Author
Checked By: Checker
Scale: 1/4" = 1'-0"

Sheet No.: A900

10/13/2025 10:17:42 AM

HDWR GRP 01A		EXTERIOR STORE FRONT SLIDING DOUBLE DOOR			
PROVIDE EACH PAIR OF DOORS WITH THE FOLLOWING:					
QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
		**HARDWARE BY STOREFRONT DOOR MANUFACTURER.			
		DOORS BREAK AWAY OPEN IN EMERGENCY AND TO INCLUDE PANIC, DEAD BOLT, HIGH LOW ADA ACTUATORS			
		AND POSITION INDICATORS AND ELECTRIFIED HARDWARE			
		WHERE INDICATED IN DOOR SCHEDULE.**			

HDWR GRP 01B		EXTERIOR EGRESS ONLY DOOR			
PROVIDE EACH DOOR WITH THE FOLLOWING:					
QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
		**HARDWARE BY STOREFRONT DOOR MANUFACTURER.			
		DOORS TO INCLUDE, DEAD BOLT, hIGH LOW ADA ACTUATORS			
		AND POSITION INDICATORS AND ELECTRIFIED HARDWARE			
		WHERE INDICATED IN DOOR SCHEDULE.**			

HDWR GRP 02A		GANGED RESTROOM DOOR			
PROVIDE EACH DOOR WITH THE FOLLOWING:					
QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5X4.5	630	IVE
1	EA	CONCEALED CLOSER	2010 HO	630	LCN
1	EA	10" PUSH PLATE	8200	630	IVE
1	EA	4"x16" PULL PLATE	8302	630	IVE
1	EA	WALL STOP	937.30.092	ANT	IVE
		THRESHOLD AS DETAILED			

HDWR GRP 02B		SINGLE OCCUPANT RESTROOM			
PROVIDE EACH DOOR WITH THE FOLLOWING:					
QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5X4.5	652	IVE
1	EA	CONCEALED CLOSER	2010 HO	US10	LCN
1	EA	PRIVACY IND LOCK	L9456T 06A L583-363 L283-722	630	SCH
1	EA	PRIMUS CORE	20-740	626	SCH
1	EA	WALL STOP	937.30.092	ANT	IVE
1	EA	GASKETING	188SBK PSA	BK	ZER
		THRESHOLD AS DETAILED			

HDWR GRP 03		JANITOR'S CLOSET			
PROVIDE EACH DOOR WITH THE FOLLOWING:					
QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5X4.5	652	IVE
1	EA	STOREROOM LOCK	T581HD7 QUA	630	FAL
1	EA	SURFACE CLOSER	SC81 REG OR PA AS REQ'D	689	FAL
1	SET	SEALS	5050C	BLK	NGP
1	EA	DOOR BOTTOM	320N	AL	NGP
1	EA	THRESHOLD	513 MS/LA	AL	NGP

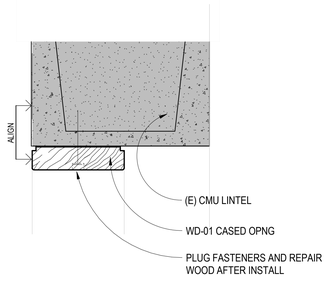
HDWR GRP 04		OFFICE			
PROVIDE EACH DOOR WITH THE FOLLOWING:					
QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5X4.5	652	IVE
1	EA	PRIVACY IND LOCK	L9456T 06A L583-363 L283-722	609	SCH
1	EA	SFIC CORE	C607	626	FAL
1	EA	SURFACE CLOSER	SC81 REG OR PA AS REQ'D	689	FAL
1	EA	STOP	WS406CCV OR FS436 AS REQ'D	630	IVE
1	SET	SEALS	5050C	BLK	NGP
1	EA	DOOR BOTTOM	320N	AL	NGP
1	EA	THRESHOLD	513 MS/LA	AL	NGP

HDWR GRP 05		STORAGE CLOSET DOOR			
PROVIDE EACH DOOR WITH THE FOLLOWING:					
QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6	EA	HINGE	5BB1 4.5X4.5	652	IVE
2	EA	DUMMY TRIM	T-SERIES (DANE)	630	FAL
2	EA	BALL CATCH	347	B15	IVE

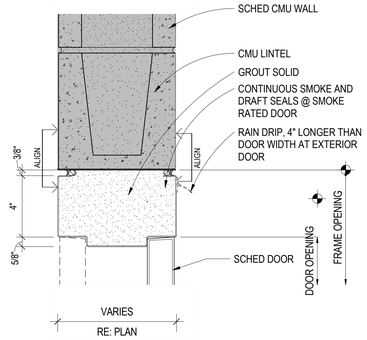
HDWR GRP 06		OFFICE DOOR			
PROVIDE EACH DOOR WITH THE FOLLOWING:					
QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5X4.5	630	IVE
1	EA	OFFICE LOCK	T301S DANE	630	FAL
1	EA	OVHD STOP	100S	US10B	GLY
1	EA	DOOR BOTTOM	335N	GRY	NGP
1	EA	GASKET	188SBK PSA	BK	ZER

HDWR GRP 07		UTILITY DOOR			
PROVIDE EACH DOOR WITH THE FOLLOWING:					
QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5X4.5	652	IVE
1	EA	STOREROOM LOCK	T581HD7 QUA	630	FAL
1	EA	FIRE EXIT HARDWARE	F-25-C-NL-512	626	VON
1	EA	SURFACE CLOSER	SC81 REG OR PA AS REQ'D	689	FAL
1	EA	STOP	WS406CCV OR FS436 AS REQ'D	630	IVE
1	SET	SEALS	5050C	BLK	NGP
1	EA	DOOR BOTTOM	320N	AL	NGP
1	EA	THRESHOLD	513 MS/LA	AL	NGP

HDWR GRP 08		ELECTRICAL ROOM DOOR			
PROVIDE EACH DOOR WITH THE FOLLOWING:					
QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5X4.5	652	IVE
1	EA	FIRE EXIT HARDWARE	F-25-C-NL-512	626	VON
1	EA	SURFACE CLOSER	SC81 REG OR PA AS REQ'D	689	FAL
1	SET	SEALS	5050C	BLK	NGP
1	EA	DOOR BOTTOM	320N	AL	NGP
1	EA	THRESHOLD	513 MS/LA	DKB	NGP
1	EA	KICK PLATE	8400 10" B-CS	630	IVE



CASED OPENING HEAD @CMU 18
SCALE: 3" = 1'-0"



TYP. DOOR HEAD @CMU 08
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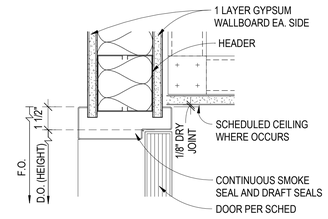

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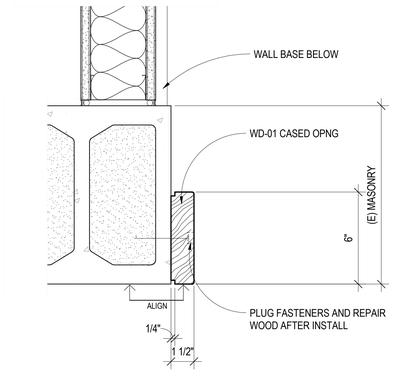

CASED OPENING JAMB @CMU 17
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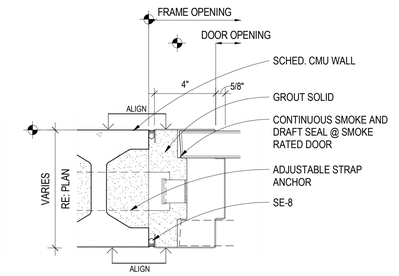

DOOR JAMB @CMU 07
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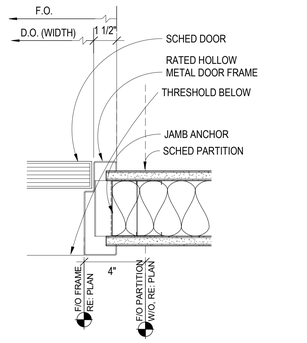

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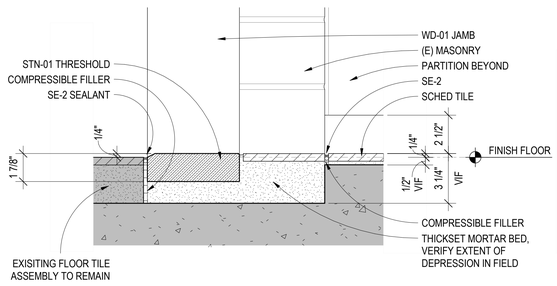
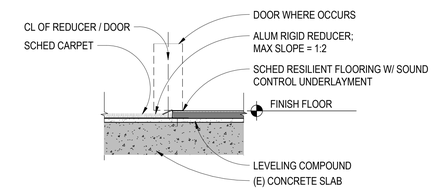


CASED OPNG THRESHOLD 16
SCALE: 3" = 1'-0"



CARPET TO HOM/LVT/VCT 11
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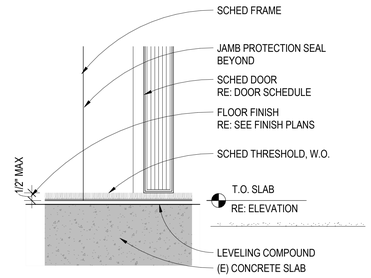

TYPICAL SILL 01
SCALE: 3" = 1'-0"

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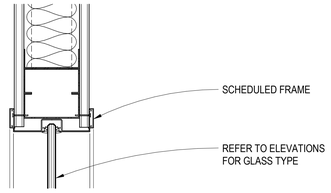
Seal & Signature:
LICENSED ARCHITECT JEFFREY MILLER C-37366 01/31/2027 RENEWAL DATE STATE OF CALIFORNIA

Sheet Name:
DOOR DETAILS

Project No.:	24.05
Drawn By:	Author
Checked By:	Checker
Scale:	3" = 1'-0"

Sheet No.:
A901

10/13/2025 10:17:44 AM



AL HEAD @ SIDE LIGHT 14
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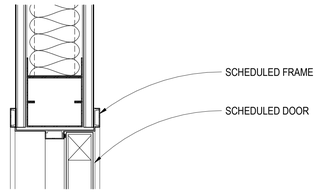

ALUMINUM DOOR HEAD 09
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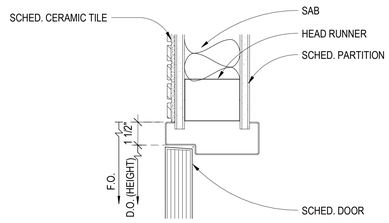

TYP. TOILET ROOM DOOR HEAD 04
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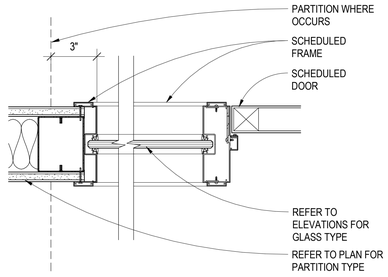

AL STRIKE W/ SIDELIGHT 13
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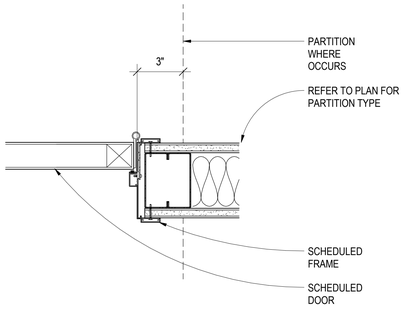

AL JAMB - HINGED 08
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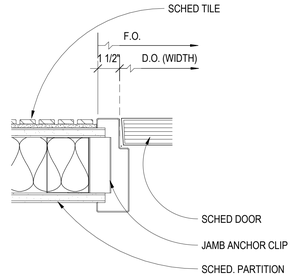
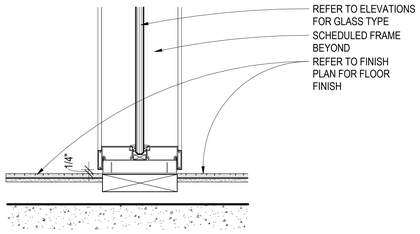


TYP. DOOR JAMB @TOILET ROOM 03
SCALE: 3" = 1'-0"



SILL DETAIL @ AL SIDELIGHT 12
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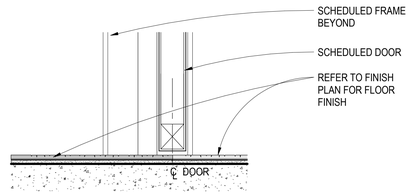
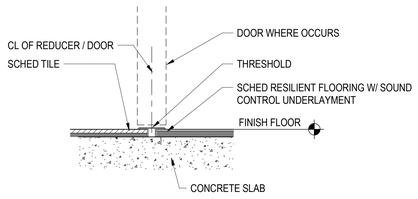
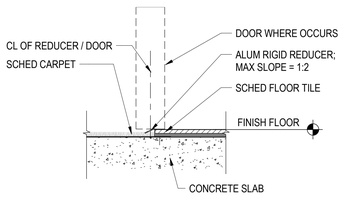


SILL DETAIL @ AL DOOR 07
SCALE: 3" = 1'-0"



DETAIL@ TILE TO HOM/LVT 16
SCALE: 3" = 1'-0"



DETAIL@ CARPET TO TILE 11
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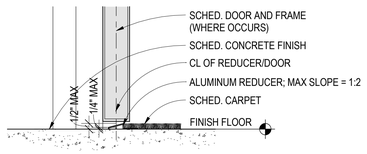

DETAIL @ CONCRETE TO CARPET 06
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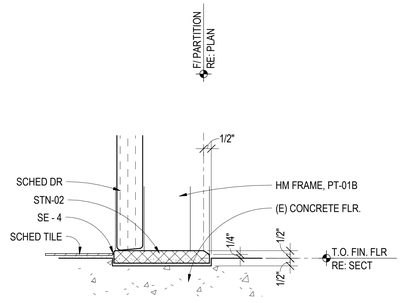

DETAIL @ RESTROOM THRESHOLD 01
SCALE: 3" = 1'-0"

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JEFFREY MILLER
C-37366
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Sheet Name:
DOOR DETAILS

Project No.: 24.05
Drawn By: Author
Checked By: Checker
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Sheet No.: A902

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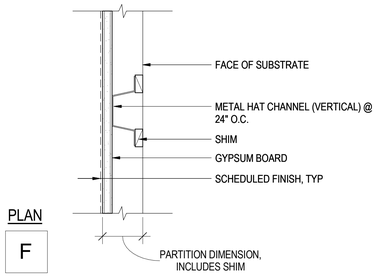


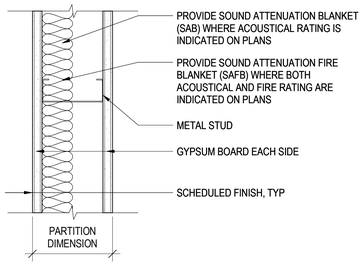
PLAN

F

WALL TYPE	CHANN EL SIZE	PARTITION DIMENSION	GAUGE
F2.0	7/8"	2"	20 GA

'F' PARTITION - FURRING (I) 03

SCALE: 3" = 1'-0"

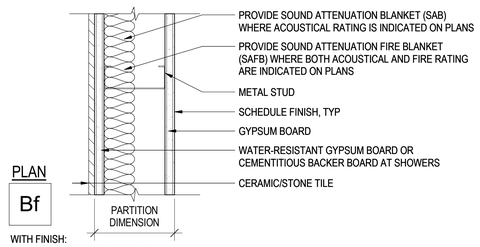


PLAN

B

WALL TYPE	STUD SIZE	PARTITION DIMENSION	PROVIDE FIRE RATING PER TEST BELOW WHERE RATING IS INDICATED ON PLANS		PROVIDE SAB OR SAFB FOR STC WHERE ACOUSTICAL RATING IS INDICATED ON PLANS BY "A"		5 PSF L/240 LIMITING HEIGHTS		
			RATING	DESIGN NO.	STC @ 16" O.C.	TEST NUMBER	GAUGE	SPAN @ 16" O.C	SPAN @ 24" O.C
B3.5	3 5/8"	4 7/8"	<varies>	UL U425	48	ESTIMATE (*)	25 GA	15' - 2"	13' - 2"

- LIMITING HEIGHTS BASED ON SSMA VALUES (2014), INTERIOR NON-STRUCTURAL COMPOSITE
- ACOUSTICAL RATING BASED ON USG VALUES (SA100/REV. 8-13, 2013)
  * ESTIMATED STC VALUES DERIVED FROM PARTITION TESTS WITH STUDS SPACED AT 24" O.C.
  TEST NO. RAL-TL-69-42 FOR PARTITIONS WITH 25 GAUGE 2 1/2" STUDS
  TEST NO. SA-870-717 FOR PARTITIONS WITH 25 GAUGE 3 5/8" STUDS
- REFER TO DETAIL **21/A912** FOR SILL CONDITION
- REFER TO DETAILS **24/A912** FOR HEAD CONDITIONS



PLAN

Bf

WITH FINISH:
THIN SET CERAMIC / STONE TILE

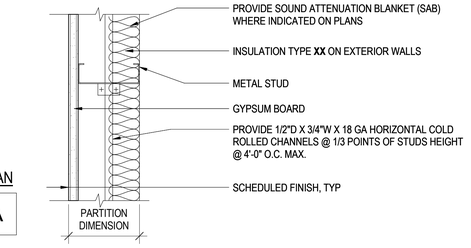
WALL TYPE	STUD SIZE	PARTITION DIMENSION	PROVIDE FIRE RATING PER TEST BELOW WHERE RATING IS INDICATED ON PLANS		PROVIDE SAB OR SAFB FOR STC WHERE ACOUSTICAL RATING IS INDICATED ON PLANS BY "A"		5 PSF L/360 LIMITING HEIGHTS		
			RATING	DESIGN NO.	STC @ 16" O.C.	TEST NUMBER	GAUGE	SPAN @ 16" O.C	SPAN @ 24" O.C
Bf3.5	3 5/8"	4 7/8" (**)	<varies>	UL U442	52	ESTIMATE	25 GA	13' - 3"	11' - 6"
Bf6.0	6"	7 1/4" (**)	-	UL U442	50	ESTIMATE	20 GA	21' - 6"	18' - 9"

- LIMITING HEIGHTS BASED ON SSMA VALUES (2014), INTERIOR NON-STRUCTURAL COMPOSITE
- ACOUSTICAL RATING BASED ON USG VALUES (SA200/REV. 6-06, 2006)
  * ESTIMATED STC VALUES DERIVED FROM PARTITION TESTS WITH STUDS SPACED AT 24" O.C.
  TEST NO. RAL-TL-69-42 FOR PARTITIONS WITH 25 GAUGE 2 1/2" STUDS
- REFER TO DETAIL **21/A912** FOR SILL CONDITION
- REFER TO DETAILS **24/A912** FOR HEAD CONDITIONS

** OVERALL DIMENSION TO FACE OF GYPSUM BOARD PLUS TILE THICKNESS DIMENSION TO BE CONFIRMED

'B' PARTITION - 2-SIDED (I) 02

SCALE: 3" = 1'-0"

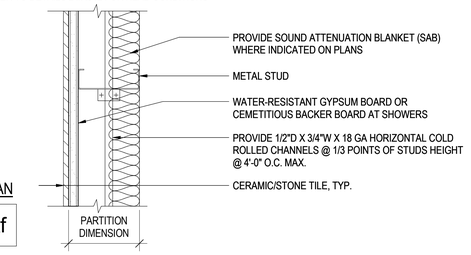


PLAN

A

WALL TYPE	STUD SIZE	PARTITION DIMENSION	PROVIDE SAB OR SAFB FOR STC WHERE ACOUSTICAL RATING IS INDICATED ON PLANS BY "A"		5 PSF L/240 LIMITING HEIGHTS		
			STC @ 16" O.C.	TEST NUMBER	GAUGE	SPAN @ 16" O.C	SPAN @ 24" O.C.
A							
A2	1.5"	4 1/4"	28	ESTIMATE	20 GA		
A3.5	3 5/8"	4 1/4"	30	ESTIMATE	25 GA	12' - 2"	9' - 11"
A3.0	3 5/8"	4 1/4"	28	ESTIMATE	20 GA	15' - 6"	13' - 6"
A6.0	6"	6 5/8"	28	ESTIMATE	20 GA	22' - 11"	18' - 11"

- LIMITING HEIGHTS BASED ON SSMA VALUES (2014), INTERIOR NON-STRUCTURAL NON-COMPOSITE
- REFER TO DETAIL **21/A912** FOR SILL CONDITION
- REFER TO DETAILS **24/A912** FOR HEAD CONDITIONS



PLAN

Af

WITH FINISH:
THIN SET CERAMIC/STONE TILE

WALL TYPE	STUD SIZE	PARTITION DIMENSION	PROVIDE SAB OR SAFB FOR STC WHERE ACOUSTICAL RATING IS INDICATED ON PLANS BY "A"		5 PSF L/360 LIMITING HEIGHTS		
			STC @ 16" O.C.	TEST NUMBER	GAUGE	SPAN @ 16" O.C	SPAN @ 24" O.C.
Af3.5	3 5/8"	4 1/4" (**)	30	ESTIMATE	25 GA	11' - 4"	9' - 11"
Af6.0	6"	6 5/8" (**)	28	ESTIMATE	20 GA	20' - 0"	17' - 6"

- LIMITING HEIGHTS BASED ON SSMA VALUES (2014), INTERIOR NON-STRUCTURAL NON-COMPOSITE
- REFER TO DETAIL **21/A912** FOR SILL CONDITION
- REFER TO DETAILS **24/A912** FOR HEAD CONDITIONS
** OVERALL DIMENSION TO FACE OF GYPSUM BOARD PLUS TILE THICKNESS DIMENSION TO BE CONFIRMED

'A' PARTITION - 1-SIDED (I) 01

SCALE: 3" = 1'-0"

SHEET NOTES:

1. REFER TO OVERALL FLOOR PLANS AND CORE PLANS FOR PARTITION TYPES AND REQUIRED MINIMUM FIRE RATINGS AND STC RATINGS.
2. ALL GYPSUM BOARD AND STUDS ARE FULL HEIGHT, U.O.N.
3. ALL GYPSUM BOARD IS 5/8" TYP., U.O.N.
4. ALL FIRE RATED PARTITIONS TO BE TYPE 'X' GYPSUM BOARD.
5. USE WATER-RESISTANT GYPSUM BOARD ON PARTITION SCHEDULED TO RECEIVE CERAMIC TILE;
6. EXCEPTION: SHOWERS TO RECEIVE CEMENTITIOUS BACKER BOARD.
7. PARTITIONS ARE DIMENSIONED FROM FACE OF FINISH ON PLANS, U.O.N.
8. USE STUD GAUGE AND SIZE SHOWN ON BACKING PLATE DETAILS AT LOCATION WHERE BACKING PLATES ARE REQUIRED. SEE BACKING PLATE DETAILS ON SHEET **AXX.XX**.
9. TAPE, BED, FLOAT, AND FINISH ALL GYPSUM BOARD CORNERS AND JOINTS READY FOR FINISH. FOR FINISHES REFER TO FINISH SCHEDULE.
10. HOLD GYPSUM BOARD BACK 1/4" AT ALL PERIMETER INTERSECTIONS (INCLUDING FLOOR) AND PENETRATIONS, AND CAULK GAP AIRTIGHT WITH ACOUSTICAL SEALANT FOR ALL PARTITIONS WHERE AN STC RATING IS REQUIRED.
11. PROVIDE CONTINUOUS ACOUSTICAL SEALANT AT SILL, HEAD, AND ENTIRE PERIMETER OF ALL PARTITIONS WHERE AN STC RATING IS REQUIRED.
12. PROVIDE CONTINUOUS FIRE-RATED SEALANT AT SILL AND HEAD AND ALL DUCT, PIPE, AND CONDUIT PENETRATIONS FOR ALL PARTITIONS WHERE A FIRE RATED SEPARATION IS REQUIRED.
13. PROVIDE CONTINUOUS FIRE-RATED ACOUSTICAL SEALANT AT SILL AND HEAD AND ALL DUCT, PIPE, AND CONDUIT PENETRATIONS FOR ALL PARTITIONS WHERE A FIRE RATED SEPARATION AND AN STC RATING ARE REQUIRED. HOLD GYPSUM BOARD BACK 1/4" AT ALL PERIMETER INTERSECTIONS (INCLUDING FLOOR) AND PENETRATIONS, AND CAULK GAP AIRTIGHT WITH FIRE RATED ACOUSTICAL SEALANT.
14. FIRE RATED UL ASSEMBLIES ARE BASED ON 2011 UL FIRE RESISTANCE DIRECTORY.
15. SSMA REFERS TO "STEEL STUD MANUFACTURERS ASSOCIATION". USG REFERS TO "UNITED STATES GYPSUM COMPANY".
16. PARTITION ASSEMBLIES ARE IDENTIFIED THROUGH THE FOLLOWING PARTITION TAG:

EXAMPLE: B|3.0 / 1|A

- FIRE RATING REQUIRED INDICATED IN HOURS
- ACOUSTIC RATING REQ'D INDICATED BY "A"
- PARTITION DESCRIPTION:
  - TYPE: INDICATED AS TYPE "A" THROUGH "O"
  - WITH FINISH: INDICATED WITH NO CHARACTER FOR STANDARD PARTITION
    - OR "f" FOR ADDITIVE FINISH (THIN SET CERAMIC /STONE TILE)
    - OR "h" FOR ELEVATOR HOISTWAY (10 PSF LATERAL LOADING)
  - STUD SIZE: INDICATED AS "0" FOR 0 7/8" FURRING CHANNELS, "1" FOR 1 5/8" STUDS, "2" FOR 2 1/2" STUDS, "3" FOR 3 5/8" STUDS, "4" FOR 4" STUDS, "6" FOR 6" STUDS
  - STUD GAUGE: INDICATED AS ".5" FOR 25 GAUGE, ".0" FOR 20 GAUGE, ".8" FOR 18 GAUGE

17. "+" SYMBOL FOLLOWING PARTITION TYPE DESIGNATION INDICATES ONE EXTRA LAYER OF GYPSUM BOARD ON ONE SIDE OF PARTITION. (PARTITION TAG IS LOCATED ON FLOOR PLANS ADJACENT TO SIDE OF PARTITION TO RECEIVE EXTRA LAYER OF GYPSUM BOARD.)
18. "++" SYMBOL FOLLOWING PARTITION TYPE DESIGNATION INDICATES ONE EXTRA LAYER OF GYPSUM BOARD ON BOTH SIDES OF PARTITION.
19. PROVIDE SOUND ATTENUATION BLANKET (SAB) OR SOUND ATTENUATION FIRE BLANKET (SAFB) AS REQUIRED FOR SCHEDULED ASSEMBLY TO OBTAIN STC RATING AND/OR FIRE RATING WHERE SHOWN AND TAGGED ON FLOOR PLANS:

SOUND ATTENUATION BLANKET SCHEDULE FOR ACOUSTIC PARTITIONS		
SAB (*) THICKNESS	STUD SIZE	REMARK
1-1/2" *	1-5/8"	* SAFB AT FIRE RATED PARTITION
2" *	2-1/2"	* SAFB AT FIRE RATED PARTITION
3" (**)	3-5/8" AND ABOVE	* SAFB AT FIRE RATED PARTITION

** 3" MINIMUM BLANKET THICKNESS. FOR LARGER STUD SIZES, USE THICKER BLANKET TO FILL STUD CAVITY SPACE.

20. ESTIMATED STC VALUES FOR ACOUSTIC RATINGS DERIVED FROM TEST REFERENCES LISTED IN USG SA200/REV. 6-06, 2006 AS BASELINE (TEST PARTITIONS TYPICALLY CONSTRUCTED WITH 25 GAUGE STUDS SPACED AT 24" O.C.) WITH 1 STC POINT DEDUCTED FOR STUD SPACING DECREASING FROM 24" O.C. TO 16" O.C., AND 2 STC POINTS DEDUCTED FOR STUD GAUGE INCREASING FROM 25 GA TO 20 GA.

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Seal & Signature:

LICENSED ARCHITECT — JEFFREY MILLER — C-37366 — 01/31/2027 RENEWAL DATE — STATE OF CALIFORNIA

Sheet Name:

PARTITION TYPES

Project No.: 24.05
Drawn By: Author
Checked By: Checker
Scale: 3" = 1'-0"

Sheet No.: A910

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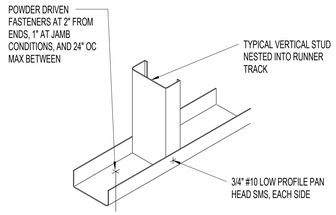
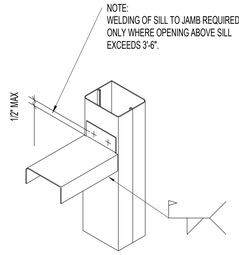
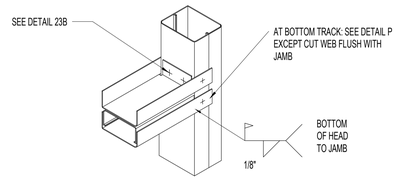


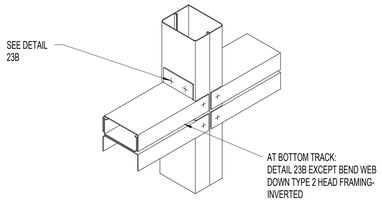
F **BOTTOM TRACK - SINGLE STUD**



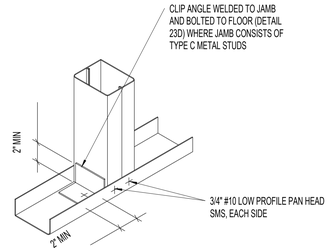
D **SILL - SINGLE STUD**
HEADER SPAN: LESS THAN 3'-0"



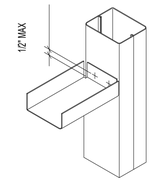
B **HEAD - DOUBLE STUD**
HEADER SPAN: 3'-6" - 8'-0"



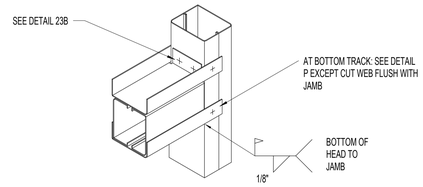
G **COLUMN STUDS AT**
PARTIAL HEIGHT HEAD



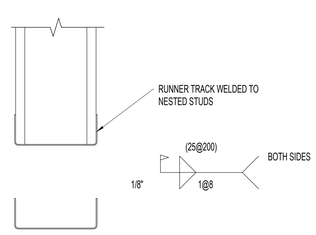
E **BOTTOM TRACK - DOUBLE STUD**



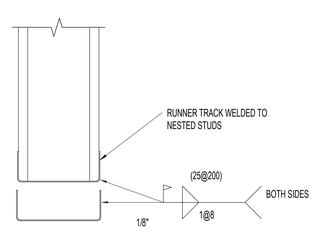
C **HEAD - SINGLE STUD**
HEADER SPAN: LESS THAN 3'-0"



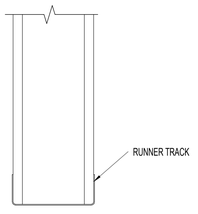
A **HEAD - DOUBLE STUD**
HEADER SPAN: 8'-0" - 12'-0"



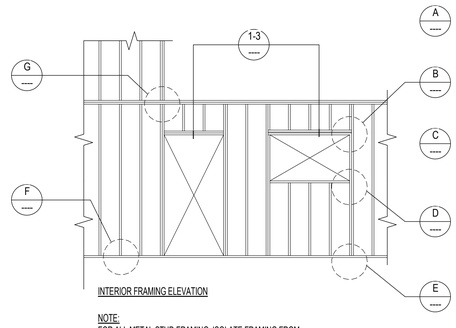
3 **HEAD OPENING 8'-0" TO 12'-0"**



2 **HEAD OPENING 3'-6" TO 8'-0"**



1 **HEAD OPENING LESS THAN 3'-0"**



NOTE:
FOR ALL METAL STUD FRAMING, ISOLATE FRAMING FROM TRANSFER OF STRUCTURAL LOADING TO FRAMING.

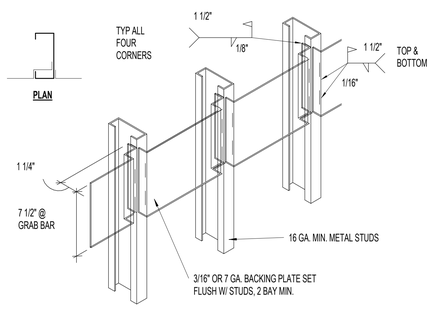
TYPICAL FRAMING DETAILS 02

SCALE: 12" = 1'-0"

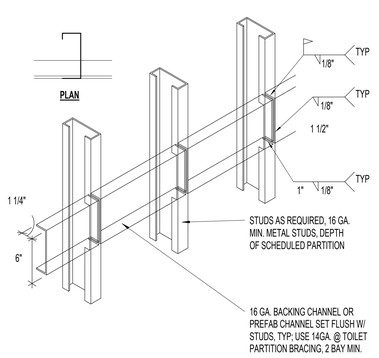
BACKING PLATE TYPE	EQUIPMENT	MOUNTING SCREWS
TYPE 'A'	TOILET ACCESSORIES AND ALL ITEMS NOT INDICATED IN THIS SCHEDULE	#10 SELF-TAPING SCREWS
TYPE 'B'	BASE CABINETS	#12 SELF-TAPING SCREWS
TYPE 'C'	WALL HUNG CABINETS, WALL HUNG EQUIPMENT, ACCESS LADDERS, LOCKERS, SHELVES, WALL HUNG ARTWORK	#14 SELF-TAPING SCREWS
TYPE 'D'	GRAB BARS, HANDRAILS	SEE DETAIL

NOTES, U.N.O.:

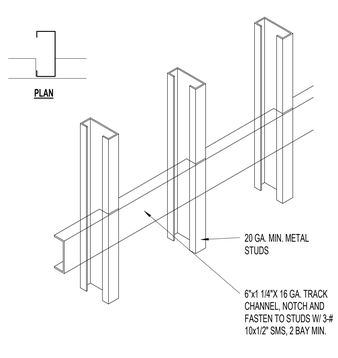
1. FLANGES OF STUDS SHALL NOT BE CUT.
2. HEIGHT OF BACKING PL. TO BE AS SHOWN FOR PROPER MOUNTING OF EQUIPMENT.



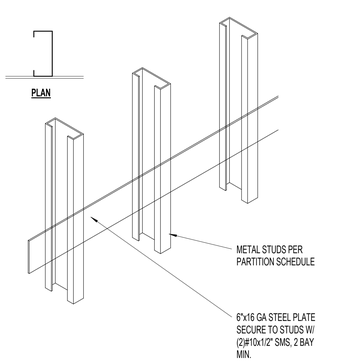
D **BACKING PLATE TYPE 'D'**



C **BACKING PLATE TYPE 'C'**



B **BACKING PLATE TYPE 'B'**



A **BACKING PLATE TYPE 'A'**

BLOCKING PLATE DETAILS 01

SCALE: 12" = 1'-0"

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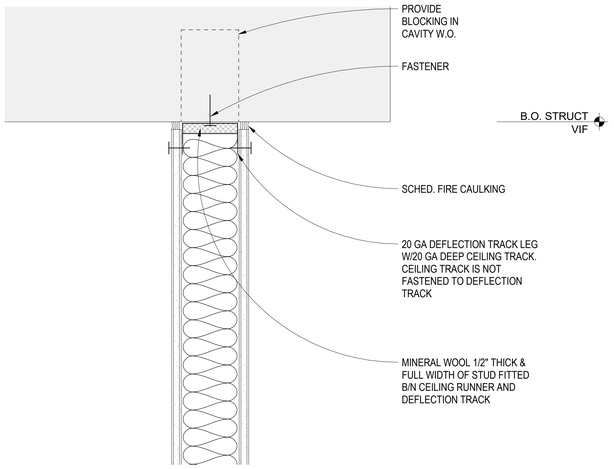
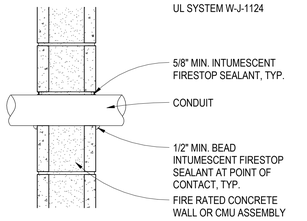


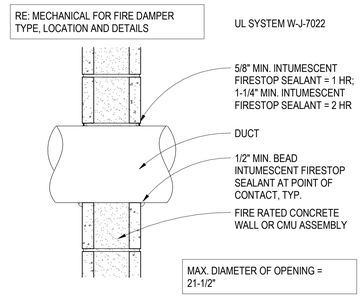
HEAD SECTION @ 1HR/NON RATED PARTITION 24

SCALE: 3" = 1'-0"



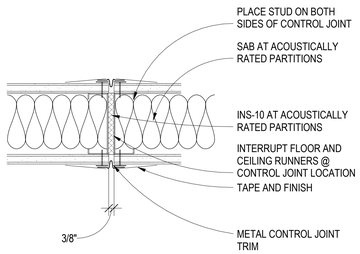
CONDUIT @CMU RATED WALL 14

SCALE: 1 1/2" = 1'-0"



DUCT @ RATED CMU/ CONC WALL 04

SCALE: 1 1/2" = 1'-0"

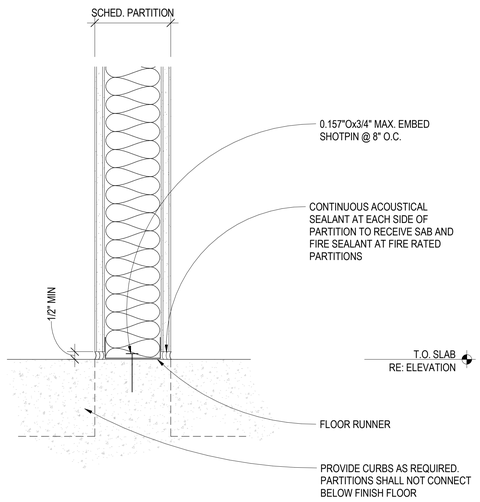


CONTROL JOINT @ NR PARTITION 13

SCALE: 3" = 1'-0"

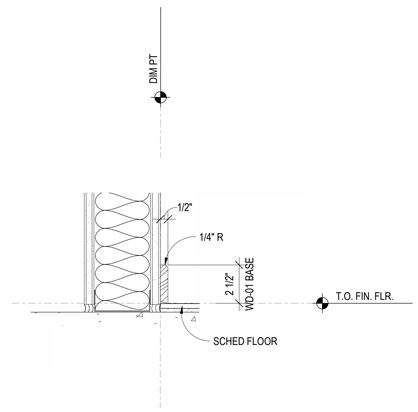
DUCT @ RATED GWB 03

SCALE: 1 1/2" = 1'-0"



SILL SECTION @ 1HR/NON RATED PARTITION 21

SCALE: 3" = 1'-0"



TYP BASE DETAIL 01

SCALE: 3" = 1'-0"

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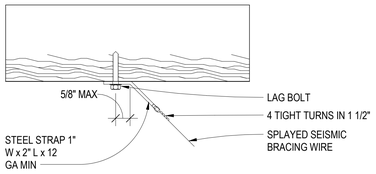
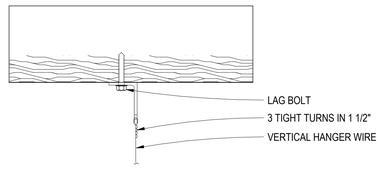
Drawn By: Author	
Checked By: Checker	
Scale: As indicated	



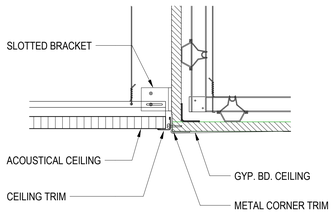
BRACING WIRE ATTACHMENT TO STRUCTURE ABOVE 24

SCALE: 3" = 1'-0"



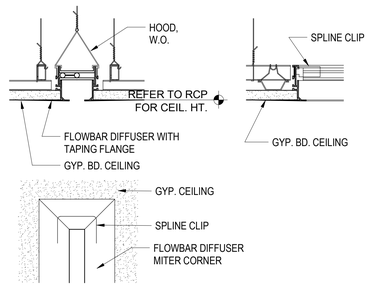
VERTICAL HANGER WIRE TO STRUCTURE ABOVE 14

SCALE: 3" = 1'-0"



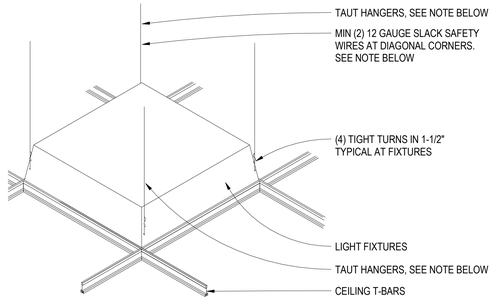
GYP CEILING@ACT TRANSITION 27

SCALE: 3" = 1'-0"



LINEAR DIFFUSER@GYP CEILING 23

SCALE: 3" = 1'-0"



NOTES

ALL LIGHT FIXTURES SHALL BE POSTIVELY ATTACHED TO THE SUSPENDED CEILING SYSTEM. THE ATTACHMENT DEVICE SHALL HAVE A CAPACITY OF 100 PERCENT OF THE LIGHT FIXTRURE WEIGHT ACTING IN ANY DIRECTION.

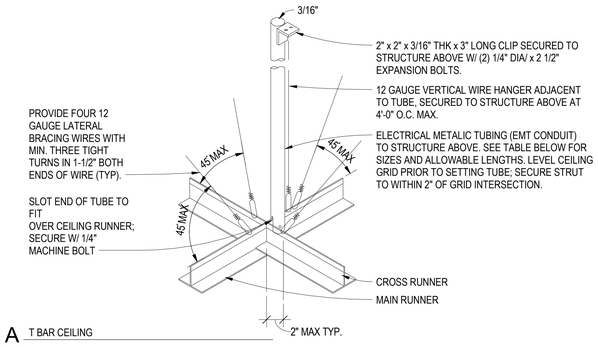
LIGHT FIXTURES WEIGHING EQUAL OR MORE THAN 55 LBS MUSTR BE SUPPORTED BY (4) 12 GAUGE TAUT WIRES, (1) AT EACH CORNER

LIGHT FIXTURE SUPPORT IN ACOUSTICAL CEILING 13

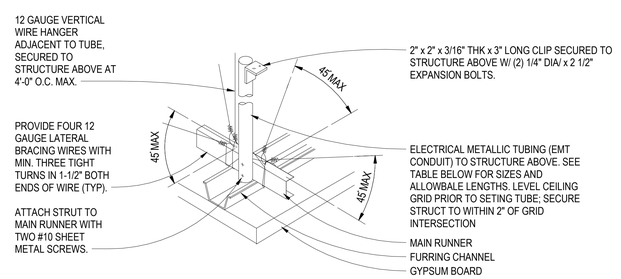
SCALE: 3" = 1'-0"

GENERAL NOTES FOR CEILING

1. SUSPENDED CEILING TO BE DESIGNED IN ACCORDANCE WITH ASCE 7-05 SECTION 13.5.6; ASTM C636 AND CISCA FOR SEISMIC ZONES 3-4 WITH ADDITIONAL MODIFICATIONS SUGGESTED IN ASCE 7-05, SECTION 13.5.6.2.2.
2. SEISMIC BRACING OF THE CEILING TO BE DESIGNED IN ACCORDANCE WITH REQUIREMENTS OF THE SPECIFICATION SECTION 01 43 00.
3. PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY MEMBERS AT OBSTRUCTIONS TO MAIN HANGER SPACING.
4. PROVIDE ADDITIONAL HANGERS, STRUTS OR BRACES AS REQUIRED AT ALL CEILING BREAKS, SOFFITS OR DISCONTINUOUS AREAS.
5. HANGER WIRES THAT ARE MORE THAN 1 IN 6 OUT OF PLUMB SHALL BE PROVIDED WITH COUNTER-SLOPING WIRES.
6. SEPARATE ALL HANGER AND BRACING WIRES AT LEAST 6" FROM ALL UNBRACED DUCTS, PIPES, CONDUITS, ETC.
7. IN SUSPENEDED ACOUSTICAL BOARD CEILINGS, WHERE LIGHT FIXTURES OR DIFFUSERS ARE NOT SUPPORTED DIRECTLY ON MAIN OR CROSS RUNNERS, PROVIDE SUPPLEMENTAL FRAMING THAT IS SUPPORTED BY MAIN RUNNERS
8. IN GYPSUM BOARD CEILING, ALL FIXTURES AND DIFFUSERS SHALL BE SUPPORTED EITHER DIRECTLY BY MAIN RUNNERS OR BY SUPLEMENTARY FRAMING THAT IS SUPPORTED BY MAIN RUNNER
9. IN SUSPENDED GYPSUM BOARD CEILINGS, SPLICE MAIN RUNNERS BY LAPPING AND INTERLOCKING FLANGES 12" MIN, AND TYING NEAR EACH END WITH DOUBLE LOOPS OF 16 GAUGE WIRE.
10. CLASSIFICATION OF CEILIGN GRID IS HEAVY DUTY.
11. WHEN DRILLED IN ANCHORS ARE USED IN REINFORCED CONCRETE FOR HANGER WIRE, 1 OUT OF 10 MUST BE FIELD TESTED FOR 200LBS OF TENSION. WHEN DRILLED IN CONCRETE ANCHORS ARE USED FOR BRACING WIRES, 1 OUT OF 2 MUST BE FIELD TESTED FOR 440LBS IN TENSION. WHEN DRILLED IN ANCHOR FAILS, ALL ADJACENT ANCHORS MUST BE TESTED.
12. ALL THREADED ROD HANGERS SHALL BE 3/8" UNLESS OTHERWISE NOTED.
13. #12 GA WIRE HANGER SHALL CONFIRM TO ASTM A641.
14. #12 GA SPLAYED WIRES SHALL BE ORIENTED 90 DEGREES TO EACH OTHER.
15. COMPRESSION STRUTS SHALL NOT BE MORE THAN 1 HORIZONTAL IN 6 VERTICAL OUT OF PLUMB



A T BAR CEILING



B GYPSUM BOARD CEILING

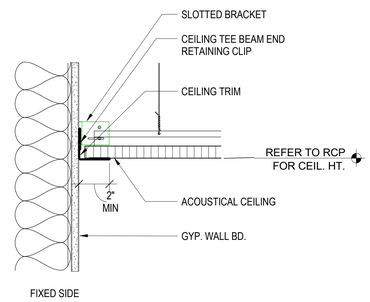
DETAIL NOTES:

1. CONNECTIONS TO OVERHEAD STRUCTURE: ALL HANGER SPLAYED BRACING WIRES SHALL BE FIRMLY ANCHORED TO OVERHEAD SUPPORT WITH A MIN. OF (3) TURNS. CONNECTION DEVICES SHAL HAVEA CAPACITY OF 100LBS MIN.,: BRACING OCCURS AT 12'-0" O.C. EACH DIRECTION, TYP.
2. ALL STRUT MAT'L TO HAVE A SLENDERNESS RATIO OF KL/R=200 MAX
3. PROVIDE CROSS RUNNERS MAY BE SECURED TO WALL ANGLES ON TWO ADJACENT SIDES OF ROOM ONLY
4. REFER TO DETAIL 30/- & 36/- FOR ATTACHMENT FOR BRACING WIRE TO STRUCTURAL SLABE ABOVE.

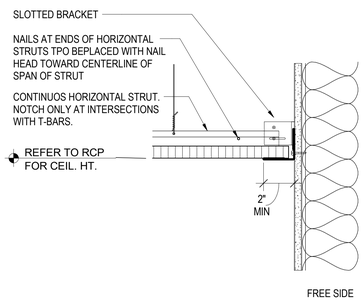
MAX. HEIGHT	STRUT SIZE/MAT'L
UP TO 4'=0"	3/4" DIA EMT
UP TO 6'=0"	1" DIA EMT
UP TO 7'=0"	2 1/2" X 22 GAUGE STEEL STUD

COMPRESSION STRUT @ SUSPENDED CEILING 01

SCALE: 3" = 1'-0"



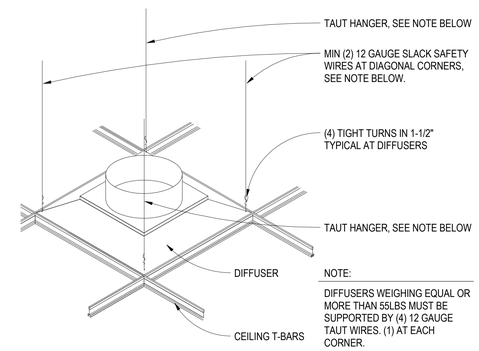
FIXED SIDE



FREE SIDE

ACT CEILING TO WALL 22

SCALE: 3" = 1'-0"

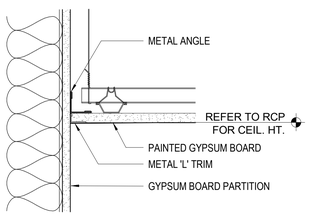


NOTE:

DIFFUSERS WEIGHING EQUAL OR MORE THAN 55LBS MUST BE SUPPORTED BY (4) 12 GAUGE TAUT WIRES. (1) AT EACH CORNER.

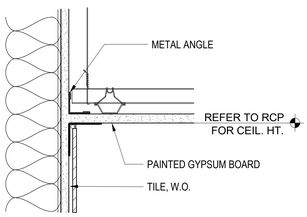
DIFFUSER MOUNT IN ACOUSTICAL CEILING 12

SCALE: 3" = 1'-0"



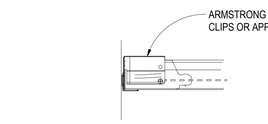
GYP CEILING@GYP WALL 25

SCALE: 3" = 1'-0"

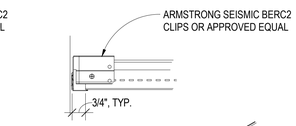


GYP CEILING@TOILET RM PARTITION 21

SCALE: 3" = 1'-0"



FIXED SIDE



FREE SIDE

ACT CEILING TO WALL 11

SCALE: 3" = 1'-0"

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	100% DESIGN DEVELOPMENT	22 NOV 2024
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01/31/2027
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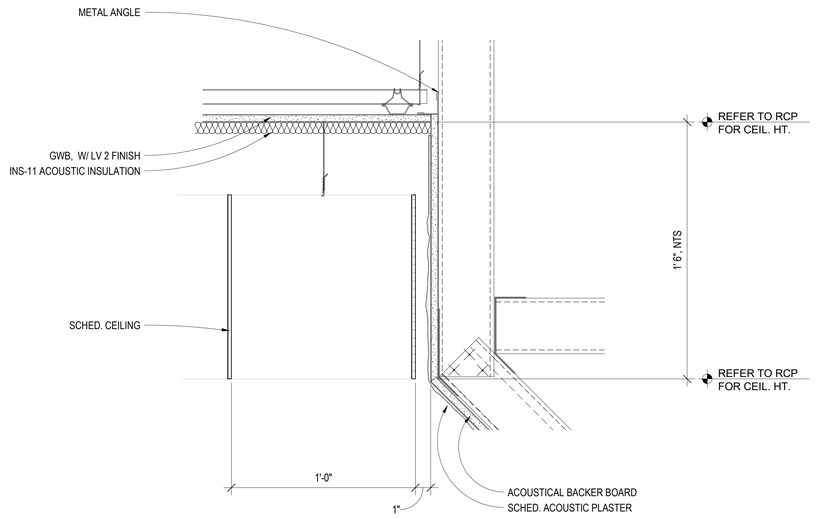

DETAIL @ FELTWORKS (OPEN CELL) 03

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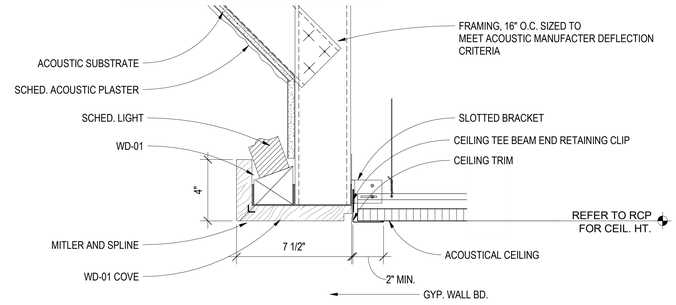
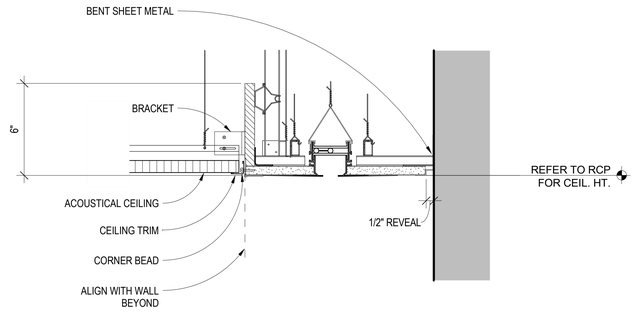


WD-01 COVE DETAIL 02

SCALE: 3" = 1'-0"



GYP. CEILING TO ACT TRANSITION 01

SCALE: 3" = 1'-0"

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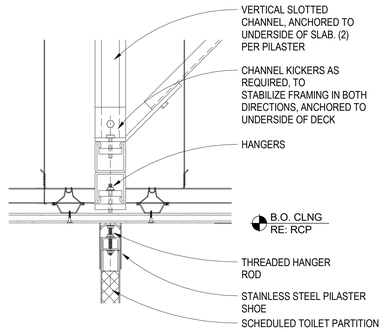

DETAIL @ TOILET PARTITION HEAD 23
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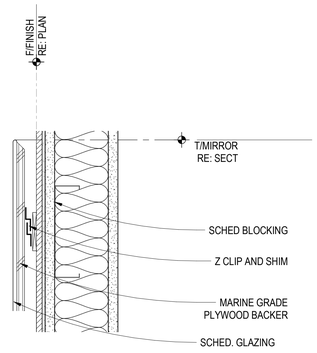

SECTION @ T/ MIRROR 15
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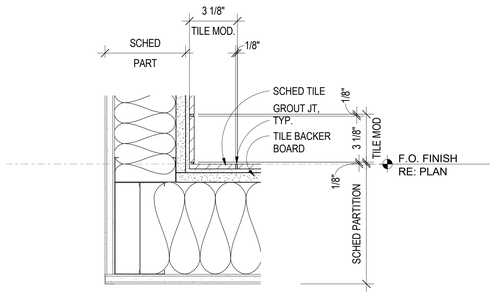

TILE DETAIL @ INTERNAL CORNER 29
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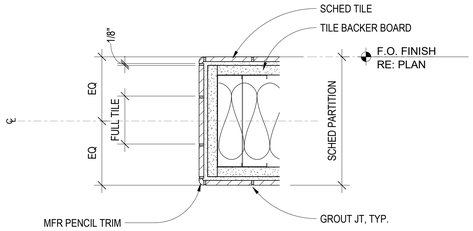

TILE DETAIL @ OUTER WALL 28
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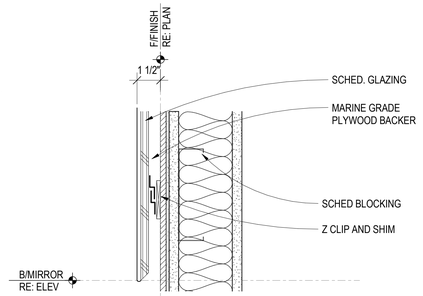

SECTION DETAIL @ B/ MIRROR 14
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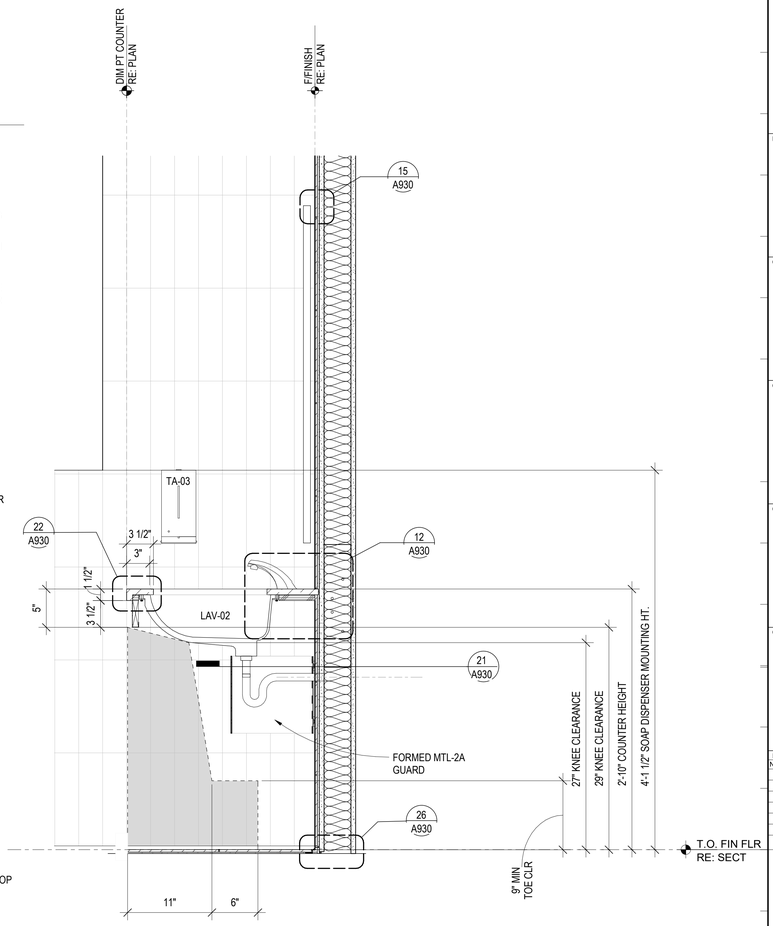

SECTION @ LAVATORY 03
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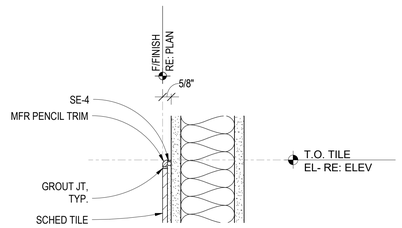

DETAIL @ TERMINATION 30
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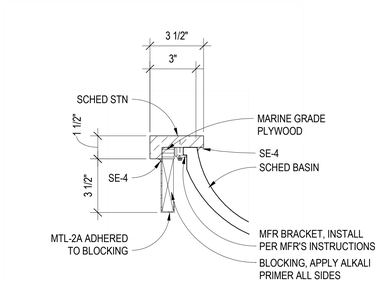

SECTION DETAIL @ COUNTERTOP 22
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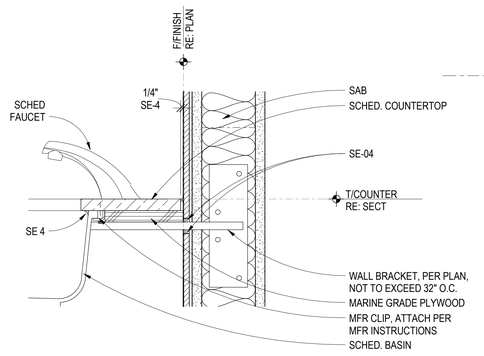

SECTION DETAIL @ COUNTERTOP 12
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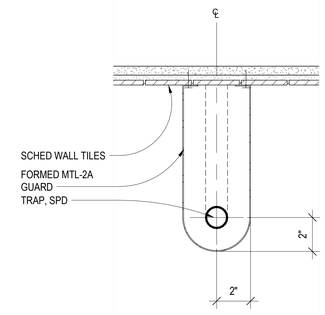

PLAN @ LAVATORY KNEE GUARD 21
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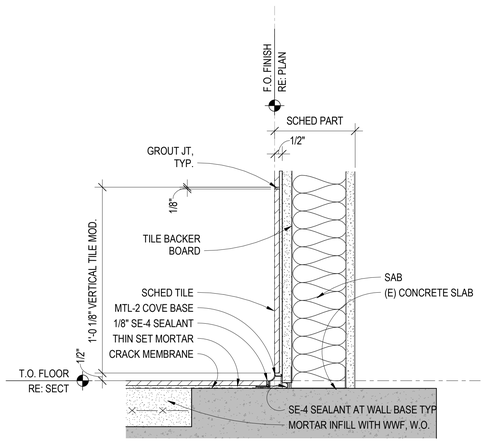

BASE DETAIL @ TILE WALL 26
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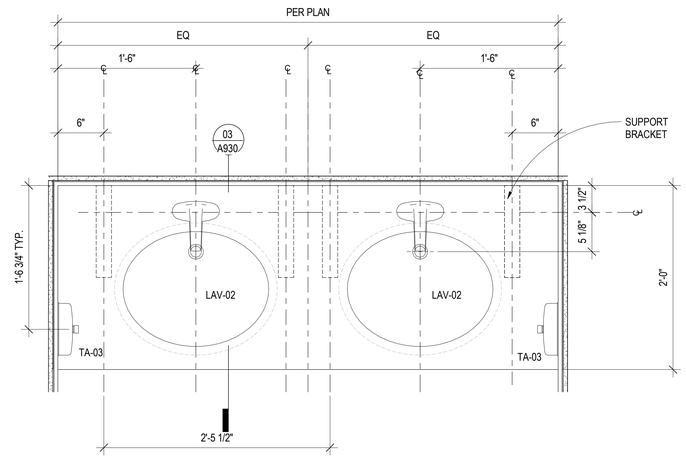

PLAN @ LAVATORY 01
SCALE: 1 1/2" = 1'-0"

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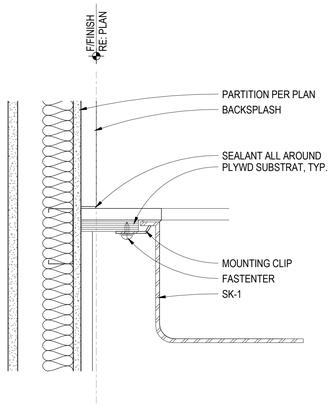

COUNTERTOP BACKSPLASH DETAIL, TYPICAL 03

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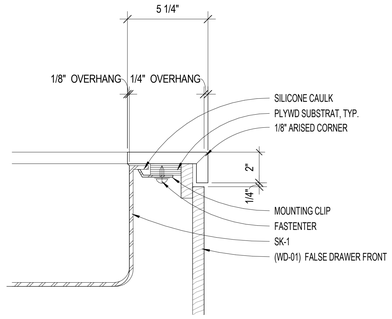

COUNTERTOP EDGE DETAIL, TYPICAL 02

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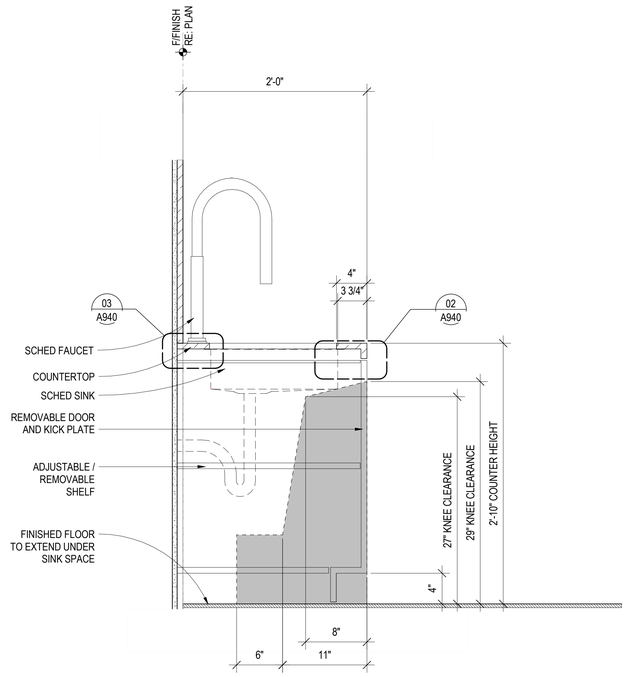

REMOVABLE SINK BASE 01

SCALE: 1 1/2" = 1'-0"

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FURNITURE SCHEDULE

	ITEM	DESCRIPTION	ITEM QTY	UNIT
ACCESSORIES				
	AA-101	FLOOR CUSHION	20	ea
BOOK STACK				
	BS-101	SALVED PERIPHERAL SHELVES		
	BS-102	TALL STACK	24	ea
	BS-103	SHORT STACK	18	ea
	BS-104	CURVED STACK	3	ea
POD				
	PD-101	12 X 12 POD	2	ea
	PD-02	6 X 6 POD	4	ea
SEATING				
	SG-101	TASK CHAIR	28	ea
	SG-102	OFFICE CHAIR	13	ea
	SG-103	CHILDREN TASK CHAIR	4	ea
	SG-104	LOUNGE CHAIR	8	ea
	SG-105	LOUNGE CHAIR	8	ea
	SG-106	ADULT STOOL	5	ea
	SG-107	CHILDREN STOOL	3	ea
	SG-108	CHILDREN ACTIVITY CHAIR	12	ea
STORAGE				
	SE-101	OFFICE STORAGE	2	ea
TABLES				
	TB-101	COMMUNAL TABLE	2	ea
	TB-102	INDIVIDUAL DESK	10	ea
	TB-103	OFFICE DESK	12	ea
	TB-104	CHILDREN'S COMPUTER DESK	4	ea
	TB-105	CHILDREN ACTIVITY TABLE	6	ea
	TB-106	COMMUNAL TABLE FOR DELIVERY AND STAGING	2	ea
	TB-107	OFFICE DESK	1	ea
	TB-108	COFFEE TABLE	8	ea
TECH				
	TH-101	OPAC CATALOUGE COMPUTER	2	ea
	TH-102	SELF CHECKOUT KIOSK	4	ea

FURNITURE LAYOUT FOR REFERENCE ONLY.

OVERALL FIRST FLOOR PLAN 01
SCALE: 1/8" = 1'-0"

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OVERALL FURNITURE PLAN

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POWER AND DATA LEGEND

- SINGLE RECEPTACLE OUTLET - WALL MOUNTED
- DUPLEX RECEPTACLE OUTLET - WALL MOUNTED
- DUPLEX RECEPTACLE OUTLET, ONE RECEPTACLE SWITCHED AND ONE RECEPTACLE CONSTANT
- QUADRAPLEX RECEPTACLE OUTLET - WALL MOUNTED
- SPECIAL RECEPTACLE OUTLET - WALL MOUNTED
- FLUSH MOUNTED RACEWAY AT 36" U.N.O.SEE PLAN FOR OUTLET QUANTITY AND LOCATION. OUTLETS AT SINK AREAS TO BE GFCI.
- (DC) DOOR CONTACT
- W WALL PHONE

- FB SURFACE FLOOR BOX WITH DUPLEX RECEPTACLE AND 1 DATA JACKS
- FB2 SURFACE FLOOR BOX WITH QUDRAPLEX RECEPTACLE AND 2 DATA JACKS
- TV FLUSH FLOOR BOX WITH CABLE TV
- CAMERA (+ - 270 DEGREE CAMERA*)
- NVR NETWORK VIDEO RECORDER
- VSS VSS WORKSTATION
- (DB) DURESS BUTTON
- (M) MOTION DETECTOR
- C P IDS CONTROL PANEL
- DATA JACK - REFER TO COMMUNICATION DRAWINGS FOR JACK SPECIFICATION

SYMBOL SUBSCRIPTS:

D	- DEDICATED CIRCUIT
EM	- EMERGENCY CIRCUIT
EP	- EXPLOSION PROOF
GFCI	WITH GROUND FAULT CIRCUIT INTERRUPTER
IG	ISOLATED GROUND
FP	FINGER PRINTING DEVICE
WP	WEATHERPROOF TYPE
XXmm	MOUNTAING HEIGHT
TS	TECHNICAL SECURITY

- CATV FLUSH TRIPLE-GANG BOX (+60" AFF) FOR DUPLEX POWER AND DATA AND COAX JACKS PER COMMUNICATION/AV CONSULTANT DRAWINGS
- (J) RECESSED JUNCTION BOX - WALL MOUNTED
- (J) FLUSH MOUNTED FLOOR ELECTRICAL JUNCTION BOX
- (AV) WALL MOUNTED AUDIO/VISUAL JUNCTION BOX, RE: A/V DRAWINGS
- PAM PERSONNEL AUTHENTICATION MODULE
- SS POE SURGE PROTECTOR

- FP (J) RECESSED ELECTRICAL JUNCTION BOX - WALL MOUNTED WITH WHIP CONNECTION TO FURNITURE ELECTRIFIED PANELS
- FP (LV) RECESSED LOW VOLTAGE JUNCTION BOX - WALL MOUNTED WITH WHIP CONNECTION TO FURNITURE ELECTRIFIED PANELS
- (ES) ELECTRICAL STRIKE
- KP IDS KEYPAD

FLUSH WALL MOUNTED LIGHTING CONTROLS

- $ ON/OFF SWITCH
- ϕ DIMMING SWITCH
- IM INTERCOM MASTER
- COAX TERMINATION FOR SECURITY MONITOR

- (IR) WALL MOUNTED OUTLET FOR HEARING IMPAIRED TRANSMITTER REFER TO T-SERIES DRAWINGS
- ● CALL BUTTON

SYMBOL SUBSCRIPTS

R - RECEPTION CALL BUTTON
N - NURSE CALL BUTTON

- LCD1 LCD AT WAITING AREA; REFER TO A/V DWGS.
- LCD2 LCD ABOVE TELLER WINDOW; REFER TO A/V DWGS
- (T) THERMOSTAT
- (M) WALL MOUNTED DOOR MAGNETIC HOLD OPEN
- CR CARD READER
- LCD LCD MONITOR W/ DECODER
- KVM KEYBOARD, VIDEO AND MOUSE
- ACM ACCESS CONTROL PANEL

- ACW ACCESS CONTROL WORKSTATION
- PP POWER POLE - ABOVE CEILING JUNCTION BOXES FOR POWER AND DATA CONNECTION TO ELECTRIFIED FURNITURE PANELS
- UPS UNINTERRUPTED POWER SUPPLY
- DE DELAYED EGRESS

SHEET NOTES:

1) REFER TO A220 FOR BASE BUILDING POWER AND DATA

2) ALL EXISTING FLOOR BOXES ARE TO BE REWIRED FOR POWER AND CAT 8 DATA CABLING.

3) ALL NEW FLOOR BOXES TO BE 4 GANG MULTI SERVICE.

4) CONNECT TO NEW FLOOR BOXES USING UNDER CARPET CONNECTRAC (LEGRAND) WITH ASSOCIATED LEVELING RAMPS FOR ADA ACCESS

SHEET PROVIDED FOR REFERENCE ONLY IN ESTABLISHING BUDGET FOR ALT-03. SEE SHEET A011 FOR ADDITIONAL INFORMATION

POWER AND DATA PLAN
SCALE: 1/8" = 1'-0" 01

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LICENSED ARCHITECT
JEFFREY MILLER
C-37366
01/31/2027
RENEWAL DATE
STATE OF CALIFORNIA

Sheet Name:

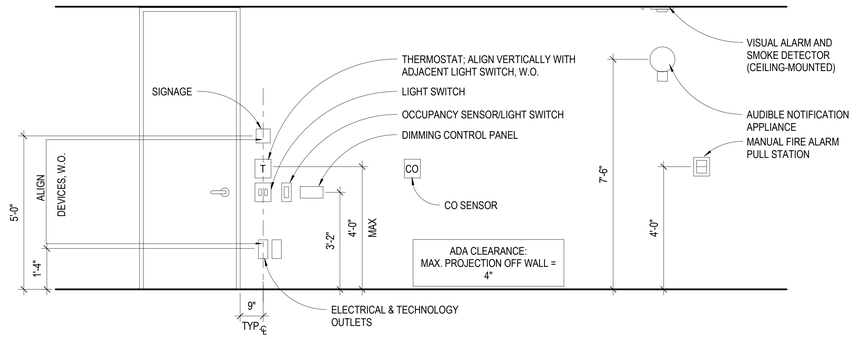
POWER AND DATA PLAN

Project No.:	Sheet No.:
24.05	I220
Drawn By: Author	
Checked By: Checker	
Scale: As indicated	

FURNITURE LAYOUT FOR REFERENCE ONLY.

TYPICAL FACEPLATE FINISHES:

WALL FINISH:	FACEPLATE FINISH:
PAINT	WHITE
CONCRETE	STAINLESS STEEL
WOOD	DO NOT LOCATE DEVICES ON THIS FINISH
CERAMIC TILE	STAINLESS STEEL



TYPICAL MOUNTING HEIGHT Copy 1 03
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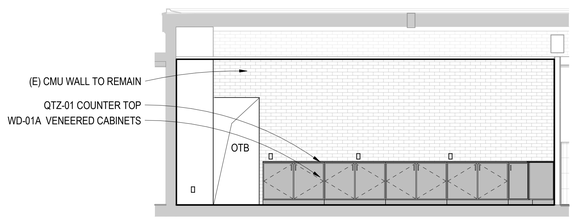
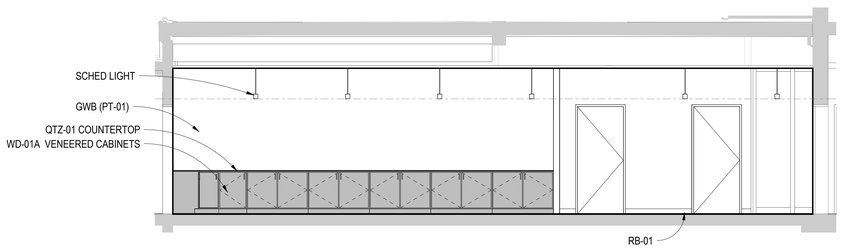


STAFF LOUNGE 18 - SOUTH ELV 12
SCALE: 1/4" = 1'-0"



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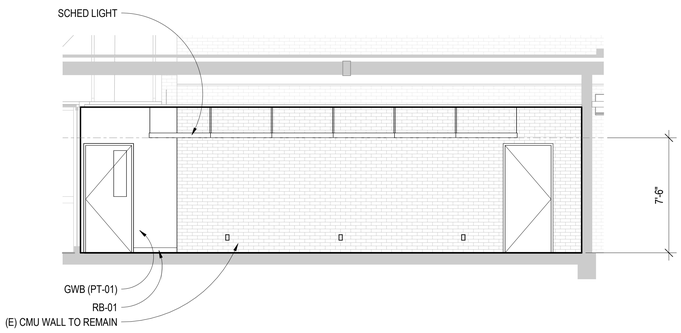
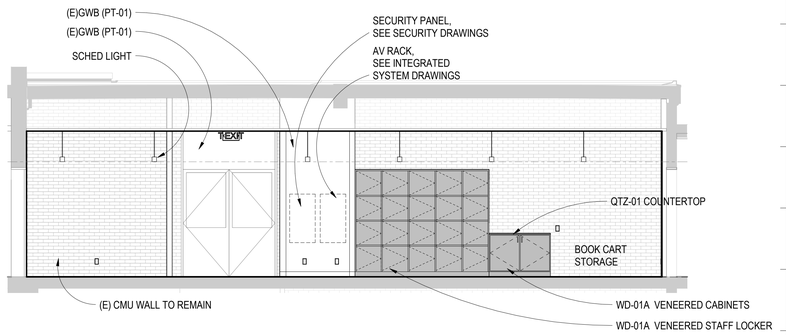
SCALE: 1/4" = 1'-0"



STAFF LOUNGE 18 - NORTH ELV 11
SCALE: 1/4" = 1'-0"



STAFF LOUNGE 18 - EAST ELV 01
SCALE: 1/4" = 1'-0"

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ENLARGED INTERIOR ELEVATIONS

Project No.:	24.05	Sheet No.:
Drawn By:	Author	I600
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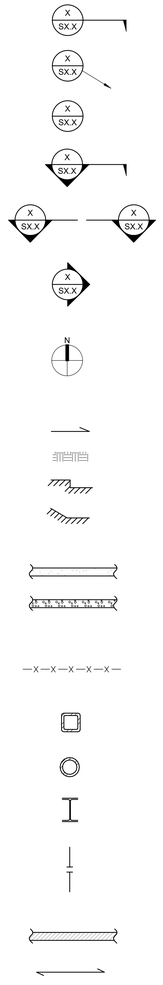
SYMBOLS



SECTION REFERENCE BUBBLE

DETAIL REFERENCE BUBBLE WITH ARROW

DETAIL REFERENCE BUBBLE

FULL HEIGHT SECTION INDICATOR

BUILDING SECTION INDICATOR

ELEVATION OF WALL OR FRAME

NORTH ARROW

SLOPE

EARTH LAYER

STEPPED SURFACE; FLOOR DEPRESSION

SLOPED SURFACE

INDICATES SAND OR GROUT

INDICATES GRAVEL

WELDED WIRE FABRIC (WWF LAYER)

STEEL TUBE COLUMN

STEEL PIPE COLUMN

WIDE FLANGE STEEL COLUMN

MEMBER SPLICE

STEEL IN CROSS SECTION

DIRECTION OF SPAN

ABBREVIATIONS

LAB	LABORATORY
LB(S) OR #	POUND(S)
LF	LINEAL FOOT
LIN	LINEAL; LINEAR
LLBB	LONG LEGS BACK-TO-BACK
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LP	LOW POINT
LSL	LONG SLOTTED HOLES
LT WT	LIGHTWEIGHT
LVL	LEVEL
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MB	MACHINE BOLT
MC	MISCELLANEOUS CHANNEL SHAPE
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM; MINUTE
MISC	MISCELLANEOUS
(N)	NEW
N	NORTH
NF	NEAR FACE
NIC	NOT IN CONTRACT
NORM	NORMAL
NO or #	NUMBER
NS	NEAR SIDE
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
ORIG	ORIGINAL
OSB	ORIENTED STRAND BOARD
PARA OR //	PARALLEL
PC	PRECAST; PIECE
PERP	PERPINDICULAR
PI	PLYWOOD INDEX
PL	PLATE
℄	PROPERTY LINE
PLF	POUNDS PER LINEAL FOOT
PLCS	PLACES-
PLY	PLYWOOD
PROP	PROPERTY
PT	POST TENSIONED
PW	PLATE WASHER
PJP	PARTIAL JOINT PENETRATION WELD
PREFAB	PREFABRICATED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
#	POUND; NUMBER
REF	REFERENCE
REINF	REINFORCE; REINFORCING
REQD	REQUIRED
RF	ROOF
Ø	DIAMETER
SCHED	SCHEDULE
SECT	SECTION
SEP	SEPERATION
SHT	SHEET
SHTG	SHEATHING
SIM	SIMILAR
SLBB	SHORT LEGS BACK-TO-BACK
SOG	SLAB ON GRADE
SPCG	SPACING
SPECS	SPECIFICATIONS
SPCL	SPECIAL
SQ	SQUARE
SS	SELECT STRUCTURAL
SSL	SHORT SLOTTED HOLES
STAGG	STAGGER
STD	STANDARD
STIFF	STIFFENERS
STIRR	STIRRUP
STL	STEEL
STRUCT	STRUCTURAL
STRUCT I	STRUCTURAL I
SW	SHEAR WALL
SYM	SYMMETRICAL
TB	TIE BEAM
T & B	TOP AND BOTTOM
T & G	TONGUE & GROOVE
TOC	TOP OF CURB; TOP OF CONCRETE
TOF	TOP OF FOOTING
TEMP	TEMPERATURE; TEMPORARY
THRU	THROUGH
THK	THICKNESS/THICK
THR	THREADED
TOP or T	TOP
TOS	TOP OF STEEL/TOP OF SLAB
TOW	TOP OF WALL
TSG	TAPERED STEEL GIRDER
TYP	TYPICAL
UBC	UNIFORM BUILDING CODE
UNO	UNLESS NOTED OTHERWISE
UT	ULTRA-SONIC TEST
VERT	VERTICAL
VSH	VERTICAL SLOTTED HOLES
V.I.F.	VERIFY IN FIELD
W/	WITH
W/O	WITHOUT
WD	WOOD
WP	WORK POINT; WATERPROOF
WT	WEIGHT
WWF	WELDED WIRE FABRIC

STRUCTURAL STEEL SHAPES

Wx	W SHAPE
Cx	AMERICAN STD CHANNEL SHAPE
MC	MISC CHANNEL SHAPE
Lx	ANGLE SHAPE
WT, ST, MT	STRUCT TEE SHAPE
PIPE	STANDARD PIPE SHAPE
PIPE-X	EXTRA STRONG PIPE SHAPE
PIPE-XX	DBL EXTRA STRONG PIPE SHAPE
HSS	STRUCT TUBING SHAPE

AB	ANCHOR BOLT
ACI	AMERICAN CONCRETE INSTITUTE
ADDL	ADDITIONAL
ADJ	ADJACENT
AESS	ARCHITECTURAL EXPOSED STRUCTURAL STEEL
AGGR	AGGREGATE
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ALT	ALTERNATE
ALUM	ALUMINUM
ANCH	ANCHOR
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APA	AMERICAN PLYWOOD ASSOCIATION
APPVD	APPROVED
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL; ARCHITECT
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWPA	AMERICAN WOOD PRESERVERS ASSOCIATION
AWS	AMERICAN WELDING SOCIETY
AITC	AMERICAN INSTITUTE OF TIMBER CONSTRUCTION
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS
&	AND
@	AT
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BEAM
BN	BOUNDARY NAIL
BNDRY	BOUNDARY
BOT OR B	BOTTOM
BRC	BRACE
BRG	BEARING
BT	BENT
BTWN	BETWEEN
CANT	CANTILEVER
CAM OR C	CAMBER
CC	CENTER TO CENTER
CG	CENTER OF GRAVITY
CIP	CAST-IN-PLACE
CJ	CONSTRUCTION JOINT; CONTROL JOINT
CL	CENTER LINE
CLR	CLEARANCE; CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COMP	COMPRESSION
CONC	CONCRETE
CONN	CONNECTION; CONNECT
CONSTR	CONSTRUCTION
CONT	CONTINUE; CONTINUOUS
CONTR	CONTRACTOR
CJP	COMPLETE JOINT PENETRATION WELD
CTR	CENTER
CTSK	COUNTERSINK; COUNTERSUNK
CU FT	CUBIC FOOT
d	PENNY (NAIL OR BAR DIA)
DBL	DOUBLE
DEPT	DEPARTMENT
DET	DETAIL
DF	DOUGLAS FIR/LARCH
DIA OR ø	DIAMETER
DIAG	DIAGONAL
DIAPH	DIAPHRAGM
DIM	DIMENSION
DN	DOWN
DO	DITTO (REPEAT)
DWG	DRAWING
DWL	DOWEL
EA	EACH
EF	EACH FACE
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EMBED	EMBEDMENT
EN	EDGE NAIL
ENGR	ENGINEER
EQ	EQUAL OR EQUIVALENT
EQUIP	EQUIPMENT
ES	EACH SIDE
ETC	ET CETERA
EW	EACH WAY
EXIST or (E)	EXISTING
EXT	EXTERIOR
FDN	FOUNDATION
FF	FAR FACE
FF	FINISHED FLOOR
FIN	FINISH
FJ	FLOOR JOIST
FL	FLOOR LINE
FLG	FLANGE
FLR	FLOOR
FN	FIELD NAIL
FOC	FACE OF CONCRETE
FOM	FACE OF MASONARY
FOS	FACE OF STUD
FOW	FACE OF WALL
FP	FULL PENETRATION; FIRE PROOFING
FRMG	FRAMING
FS	FULL SIZE; FAR SIDE
FT	FOOT; FEET
FTG	FOOTING
GA	GAUGE
GALV	GALVANIZED
GB	GRADE BEAM
GLB	GLUED LAMINATED BEAM
GR	GRADE
GRND	GROUND
H or HORIZ	HORIZONTAL
HDR	HEADER
HGR	HANGER
HOSP	HOSPITAL
HP	HIGH POINT
HS	HIGH STRENGTH
HSH	HORIZONTALLY SLOTTED HOLES
HT	HEIGHT
HR	HARD ROCK
ID	INSIDE DIAMETER
IF	INSIDE FACE
I-JST	I-JOIST
IN	INCH
INCL	INCLUDE
INFO	INFORMATION
INSP	INSPECTION
INT	INTERIOR
JST	JOIST
JT	JOINT
K	KIPS
KSI	KIPS PER SQUARE INCH

SHEET INDEX

SHEET NUMBER	SHEET NAME
S000	SHEET INDEX, ABBREVIATIONS AND SYMBOLS
S001	GENERAL STRUCTURAL NOTES
S002	GENERAL STRUCTURAL NOTES
S200	FIRST FLOOR PLAN
S201	ROOF PLAN
S600	TYPICAL CONCRETE DETAILS
S700	TYPICAL STEEL DETAILS
S800	TYPICAL WOOD DETAILS

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2	100% DESIGN DEVELOPMENT	22 NOV 2024
	60% CONSTRUCTION DOCUMENTS	07 MAR 2025
	ISSUED FOR PERMIT	20 MAR 2025
	90% CONSTRUCTION DOCUMENT	08 AUG 2025
	ISSUED FOR BID	29 SEPT 2025

ISSUED FOR BID 13 OCT 2025

Key Plan:

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Sheet Name:

SHEET INDEX, ABBREVIATIONS AND SYMBOLS

Project No.: 24.05

Drawn By: TLF

Checked By: Checker

Scale: 12" = 1'-0"

Sheet No.: S000

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WOOD

1. COMPLY WITH THE REQUIREMENTS IN CHAPTER 23 OF THE CODE AND AF&PA'S WCD 1, "DETAILS FOR CONVENTIONAL WOOD FRAME CONSTRUCTION," UNLESS OTHERWISE INDICATED.
2. STUD WALLS SHOWN ON PLANS ARE NONBEARING PARTITIONS WALLS, BEARING WALLS OR SHEAR WALLS BELOW THE FRAMING LEVEL, UNLESS NOTED OTHERWISE. STUDS SHALL BE SIZE AND SPACING AS NOTED IN THE DRAWINGS, SEE PLANS AND ARCHITECTURAL DRAWINGS. UNLESS OTHERWISE NOTED, STUD WALLS SHALL BE 2 X 4 AT 16" OC
3. DIMENSIONAL LUMBER FRAMING:
   A. SPECIES, GRADE, AND MOISTURE CONTENT NOTED BELOW:

DIMENSIONAL LUMBER			
USE	SPECIES	GRADE	MOISTURE CONTENT
LUMBER 2" TO 4" THICK x 5" OR WIDER (JOISTS/RAFTERS)	DOUGLAS FIR-LARCH	#2 & BETTER	KD (15%)
LUMBER 2" TO 3" THICK x 4" TO 6" WIDE (STUDS)	DOUGLAS FIR-LARCH	#2 & BETTER	KD (15%)
LUMBER 5x5 AND GREATER (BEAMS)	DOUGLAS FIR-LARCH	#1	S-DRY (19%)
LUMBER 5x5 AND GREATER (POSTS)	DOUGLAS FIR-LARCH	#1	S-DRY (19%)

4. ENGINEERED WOOD PRODUCTS:
   A. STRUCTURAL COMPOSITE LUMBER MADE FROM WOOD VENEERS WITH GRAIN PRIMARILY PARALLEL TO MEMBER LENGTHS, EVALUATED AND MONITORED ACCORDING TO ASTM D 5456 AND MANUFACTURED WITH AN EXTERIOR-TYPE ADHESIVE COMPLYING WITH ASTM D 2559. PROVIDE PRODUCTS THAT CONFORM TO THE FOLLOWING MINIMUM DESIGN STRESS:

STRUCTURAL COMPOSITE LUMBER			
PRODUCT TYPE & USE	FLEXURAL STRESS, F_b	SHEAR STRESS, F_V	MODULUS OF ELASTICITY
LAMINATED VENEER LUMBER (LVL)	2,600 psi	285 psi	2.0×10^6 psi
PARALLEL STRAND LUMBER (PSL)			
BEAM	2,900 psi	290 psi	2.0×10^6 psi
COLUMN	2,400 psi	190 psi	1.8×10^6 psi
LAMINATED STRAND LUMBER (LSL)			
BEAM	2,325 psi	310 psi	1.55×10^6 psi
COLUMN	1,700 psi	425 psi	1.3×10^6 psi

5. FASTENERS:
   A. WHERE ROUGH CARPENTRY IS EXPOSED TO WEATHER, IN GROUND CONTACT, PRESERVATIVE TREATED, FIRE RETARDANT TREATED, OR IN AREA OF HIGH RELATIVE HUMIDITY, PROVIDE FASTENERS WITH HOT-DIP ZINC COATING COMPLYING WITH ASTM A 153.
   B. NAILS: ASTM F1667, COMMON TYPE.
6. WOOD CONNECTORS:
   A. PROVIDED BASIS OF DESIGN HANGERS, STRAPS, TIES, HOLD DOWNS, ETC, AS INDICATED ON THE DRAWINGS.
   B. WHERE CONNECTORS ARE IN EXPOSED, EXTERIOR APPLICATIONS OR IN CONTACT WITH PRESERVATIVE TREATED LUMBER, PROVIDE HOT-DIP GALVANIZED OR STAINLESS STEEL CONNECTORS.
7. ALL LUMBER IN 2 HOUR FIRE RATED WALLS AND 3 HOUR FIRE SEPARATION WALLS SHALL USE FIRE RETARDANT TREATED WOOD PER CBC SECTION 2303.2. SEE ARCHITECTURAL DRAWINGS FOR FIRE RATED WALL LOCATIONS AND DETAILS.
8. WHERE POSTS OR MULTIPLE STUDS UNDER BEAMS OR HEADERS ARE CALLED FOR ON DRAWINGS THOSE POSTS OR MULTIPLE STUDS SHALL BE CARRIED TO THE FOUNDATION/PODIUM LEVEL U.N.O.
9. JOIST BLOCKING AND BRIDGING:
   A. PROVIDE FULL DEPTH SOLID BLOCKING BETWEEN JOISTS OVER SUPPORT AND BELOW PARTITION WALLS.
   B. PROVIDE FULL DEPTH BRIDGING AT 8'-0" O.C. MAX, NOT MORE THAN 8'-0" FROM SUPPORT.
10. PROVIDE DOUBLE JOISTS UNDER NON-BEARING WALLS RUNNING PARALLEL TO JOISTS.
11. PROVIDE REQUIRED FIRE STOPPING, BACKING FOR INTERIOR FINISHES, NONBEARING WALLS, AND OTHER NON-STRUCTURAL FRAMING THAT ARE NOT SHOWN ON STRUCTURAL DRAWINGS.
12. ALL STRUCTURAL PLYWOOD SHEATHING SHALL BE DOUGLAS FIR STANDARD GRADE STRUCTURAL I WITH EXTERIOR GLUE CONFORMING TO THE LATEST EDITION OF PS1-09. ALL PANELS SHALL BEAR LEGIBLE DFPA STAMPS.
13. ORIENTED STRAND BOARD (OSB) MAY BE SUBSTITUTED FOR PLYWOOD PROVIDED IT HAS THE SAME APA PERFORMANCE STANDARD RATING AND CONTAINS THE SAME NUMBER OF LAYERS AS THE PLYWOOD SPECIFIED.
14. ALL SHEATHING SHALL BE LAID FACE GRAIN PERPENDICULAR TO FRAMING AND SHALL BE APPROVED BY THE BUILDING INSPECTOR BEFORE COVERING.
15. ALL NAILING/SCREWING SHALL CONFORM TO THE APPLICABLE BUILDING CODE AND REGULATIONS.
16. ALL BOLT HOLES SHALL BE DRILLED 1/32" TO 1/16" OVERSIZED AND SHALL BE APPROVED BY THE BUILDING INSPECTOR PRIOR TO COVERING.
17. UNLESS OTHERWISE NOTED, ALL WOOD SILL PLATE UNDER BEARING, EXTERIOR OR SHEAR WALLS IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED AND BOLTED TO CONCRETE OR MASONRY WITH ANCHORS AS INDICATED ON THE DRAWINGS.
18. ALL BOLT HEADS AND NUTS WHICH BEAR AGAINST THE FACE OF WOOD MEMBERS SHALL BE PROVIDED WITH METAL WASHERS (1/4"x3"x3" MIN).
19. ALL 1/2" DIAMETER AND LARGER BOLTS CALLED OUT ON DRAWINGS, INCLUDING ANCHOR BOLTS (A.B.) SHALL HAVE STEEL SQUARE PLATE WASHERS AS LISTED BELOW UNDER THE HEAD AND/OR NUT BEARING ON WOOD. (ALL ANCHOR BOLTS SHALL BE 12" LONG, UNLESS NOTED OTHERWISE.

BOLT DIAMETER	1/2"	5/8"	3/4"	7/8"	1"
WASHER - THICKNESS	1/4"	5/16"	3/8"	7/16"	1/2"
WASHER - WIDTH	2 1/2"	2 3/4"	3"	3 1/2"	4"

20. ALL ANCHOR BOLTS OR ANY OTHER BOLT ANCHORING THE FOUNDATION SILL PLATE SHALL HAVE STEEL SQUARE PLATE WASHERS PER THE BELOW SCHEDULE BETWEEN THE FOUNDATION SILL PLATE AND THE NUT (UNO).

BOLT DIAMETER	1/2"	5/8"	3/4"	7/8"	1"
WASHER - THICKNESS	5/16"	5/16"	3/8"	7/16"	1/2"
WASHER - WIDTH SQUARE	3"	3"	3"	3 1/2"	4"

21. FRAMING ACCESSORIES AND STRUCTURAL FASTENERS SHALL BE MANUFACTURED BY SIMPSON STRONG TIE (OR ENGINEER APPROVED EQUAL) AND OF THE SIZE AND TYPE SHOWN ON THE DRAWINGS. HARDWARE SHALL BE FULLY NAILED FOR MAXIMUM CAPACITY, UNLESS NOTED OTHERWISE.
22. LAG BOLTS (LAG SCREWS): PROVIDE LEAD HOLE 40% - 70% OF THREADED SHANK DIAMETER AND FULL DIAMETER FOR SMOOTH SHANK PORTION.
23. ALL NAILS CONNECTING WOOD MEMBERS SHALL BE COMMON NAILS. MINIMUM NAILING REQUIREMENTS OUTLINED IN TABLE 2304.10.2 SHALL BE FOLLOWED UNLESS OTHERWISE NOTED.
24. RETIGHTEN BOLTS BEFORE CLOSING-IN.
25. ALL HOLD DOWN ANCHORS AND ALL OTHER ANCHORS AND MISCELLANEOUS METAL HANGERS ARE BY SIMPSON OR APPROVED EQUAL.

STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH CHAPTER 22 OF THE CODE AND THE FOLLOWING REFERENCES:
   A. AISC 303 - "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES"
   B. AISC 360 - "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS"
   C. AISC 341 - "SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS" FOR MEMBERS OF THE SEISMIC FORCE RESISTING SYSTEM (SFRS)
   D. RCSC's - "SPECIFICATIONS FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS"
2. COMPLY WITH THE FOLLOWING PROVISIONS FOR ALL WELDED JOINTS:
   A. AWS D1.1 - "STRUCTURAL STEEL WELDING CODE"
   B. AWS D1.8 - "SEISMIC SUPPLEMENT" FOR CONNECTIONS OF THE SEISMIC FORCE RESISTING SYSTEM (SFRS)
3. ALL STRUCTURAL STEEL SHALL CONFORM TO THE ASTM DESIGNATION AS INDICATED BELOW (UNO):

	ASTM SPECIFICATION
W SHAPES AND WT SHAPES	A992
PLATES & BARS	A36 A572, GR 50 (WHERE INDICATED)
HSS SECTIONS	A500 GR B A1085 (WHERE INDICATED)
HIGH STRENGTH BOLTS (AS INDICATED IN DETAILS)	F3125, GR A325 OR GR F1852 (TWIST-OFF TYPE) F3125, GR A490 OR GR F2280 (TWIST-OFF TYPE)
ANCHOR RODS	F1554 GR 55 F1554 GR 36/105 (WHERE INDICATED)
COMMON/MACHINE BOLTS	A307, GR A

4. THE STRUCTURAL STEEL FABRICATOR SHALL FURNISH SHOP DRAWINGS TO THE ARCHITECT OF ALL STEEL FOR ARCHITECTS AND STRUCTURAL ENGINEERS FOR REVIEW AND APPROVAL BEFORE FABRICATION.
5. BOLT HOLES USED IN STEEL SURFACES THAT ARE ENCASED IN CONCRETE OR MASONRY OR SPRAY ON FIREPROOFING SHALL BE LEFT UNPAINTED.
6. ALL WELDING IS TO BE DONE BY CERTIFIED WELDERS USING E70XX ELECTRODES (UNO). ALL WELDS SHALL BE IN CONFORMITY WITH THE PROJECT SPECIFICATIONS AND THE CODE FOR WELDING IN BUILDING CONSTRUCTION (AWS D1.1 - 15) OF THE AMERICAN WELDING SOCIETY. SEE SPECIAL INSPECTION SECTION FOR WELDING INSPECTION REQUIREMENTS.
7. WELD LENGTHS CALLED FOR ON PLANS ARE THE NET EFFECTIVE LENGTH REQUIRED. WHERE FILLET WELD SYMBOL IS GIVEN WITHOUT INDICATION OF SIZE, USE MINIMUM SIZE WELDS AS SPECIFIED IN AISC 360 SECTION J2.2b.
8. ALL STRUCTURAL STEEL AND MISCELLANEOUS METAL EXPOSED TO THE WEATHER SHALL BE HOT DIP GALVANIZED AFTER FABRICATION. PROTECT FIELD WELDS EXPOSED TO THE WEATHER VIA PRIME AND PAINT OR BRUSH/COLD GALVANIZING. REFER TO ARCHITECTURAL DRAWINGS FOR STEEL FINISH.
9. DO NOT CUT OR DAMAGE EXISTING REINFORCEMENT. PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED TO REINFORCED CONCRETE/MASONRY USING POST-INSTALLED ANCHORS, LOCATE ALL REINFORCEMENT AND CONFIRM CONSTRUCTABILITY OF ANCHOR LOCATIONS. SHOULD CONFLICTS WITH REINFORCEMENT OCCUR, SUBMIT ALTERNATE ANCHOR LOCATIONS AND REVISED STEEL FABRICATIONS TO ARCHITECT FOR REVIEW AND APPROVAL.
10. BACKUP BARS MAY REMAIN IN PLACE UNLESS NOTED OTHERWISE ON THE DRAWINGS, OR WHEN ULTRASONIC TESTING INDICATES A POSSIBLE WELD DEFECT. IF DEFECTS ARE INDICATED BACKUP BAR IS TO BE REMOVED AND THE ROOT INSPECTED. IF IMPERFECTIONS ARE FOUND, THEY ARE TO BE REMOVED AND REPAIRED PER AWS REQUIREMENTS.
11. THE USE OF E70T-4 WELDING WIRE IS NOT ALLOWED FOR ANY APPLICATION. ALL WELD FILLER METAL SHALL BE OF THE LOW HYDROGEN TYPE.
12. WRITTEN WELDING PROCEDURE SPECIFICATIONS (WPS) PER THE RECOMMENDATION OF THE AMERICAN WELDING SOCIETY (AWS) SHALL BE DEVELOPED BY THE FABRICATOR/ERECTOR AND SUBMITTED FOR REVIEW TO THE ENGINEER PRIOR TO ANY WELDING OF THE STRUCTURAL STEEL. THE WELDING PROCEDURES SHALL INCLUDE ALL THE WELDED JOINTS AND CONFIGURATIONS TO BE USED ON THIS PROJECT-ONLY WPS WHICH ARE RELEVANT TO THIS PROJECT SHALL BE SUBMITTED. ALL WELDED JOINTS SHALL BE PREQUALIFIED PER AWS OR BE QUALIFIED BY TEST PER AWS. A PROCEDURE QUALIFICATION RECORD (PQR) SHALL BE INCLUDED WITH THE WPS IF THE WELDING PROCEDURE OR JOINT IS QUALIFIED BY TESTING. THE ELECTRODE MANUFACTURER AND PRODUCT/TRADE NAME SHALL BE IDENTIFIED IN THE WPS IN ADDITION TO THE AWS ELECTRODE CLASSIFICATION NAME. A COPY OF THE ELECTRODE MANUFACTURER'S TECHNICAL DATA SHEETS WITH THE RECOMMENDED WELDING PARAMETERS SHALL BE SUBMITTED WITH THE WPS.

REINFORCING STEEL

1. REINFORCING BARS SHALL CONFORM TO THE REQUIREMENTS OF CHAPTER 19 OF THE CODE, ASTM 706, GRADE 60 (UNO). DEFORMATIONS SHALL BE IN ACCORDANCE WITH ASTM A-305.
2. BARS SHALL BE CLEAN OF RUST GREASE OR OTHER MATERIALS LIKELY TO IMPAIR BOND. ALL REINFORCING BAR BENDS SHALL BE MADE COLD.
3. DETAIL, FABRICATE, AND INSTALL REINFORCING IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 301, ACI 117, AND THE "CRSI MANUAL OF STANDARD PRACTICE."
4. WELDED WIRE REINFORCEMENT (WWR) SHALL CONFORM TO ASTM A-184. PROVIDE LAPS AS PER ACI-318 SECTION 25.5.3, 9" MINIMUM. WWR SHALL BE SUPPORTED ON APPROVED CHAIRS.
5. REINFORCING BAR SPLICES SHALL BE MADE AS INDICATED ON THE DRAWINGS. MINIMUM SPLICE LENGTH FOR REINFORCING STEEL BARS IN MASONRY SHALL BE 72 BAR DIAMETERS, 36" MINIMUM. MINIMUM SPLICE LENGTH FOR REINFORCING STEEL BARS IN CONCRETE SHALL BE AS REQUIRED FOR CLASS B SPLICE PER ACI 318 SECTION 25.5.2 UNO. LAP ALL HORIZONTAL BARS AT CORNERS AND INTERSECTIONS.
6. ALL BARS SHALL BE MARKED SO THEIR IDENTIFICATION CAN BE MADE WHEN THE FINAL IN-PLACE INSPECTION IS MADE.
7. WHERE WELDING OF REINFORCING IS APPROVED BY THE STRUCTURAL ENGINEER, IT SHALL BE DONE BY AWS CERTIFIED WELDERS USING E90XX OR APPROVED ELECTRODES. WELDING PROCEDURES SHALL CONFORM TO THE REQUIREMENTS OF STRUCTURAL WELDING CODE REINFORCING STEEL AWS-D1.4 LATEST REVISION. REINFORCING BARS TO BE WELDED SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-706.
8. BARS IN SLABS SHALL BE SECURELY SUPPORTED ON WELL-CURED CONCRETE BLOCKS OR APPROVED METAL CHAIRS, PRIOR TO PLACING CONCRETE.
9. COMPLETE AND DETAILED REINFORCING PLACEMENT DRAWINGS SHALL BE PREPARED AND SUBMITTED TO THE ARCHITECT FOR REVIEW BY THE STRUCTURAL ENGINEER PRIOR TO FABRICATION IN ACCORDANCE WITH THE SPECIFICATIONS AND APPLICABLE CODES. THESE DRAWINGS SHALL BE AVAILABLE ON THE JOB SITE PRIOR TO PLACING OF CONCRETE.
10. MILL TEST REPORTS FOR GRADE 60 BARS SHALL BE SUBMITTED PRIOR TO PLACEMENT OF CONCRETE.
11. CONTINUOUS INSPECTION OF CONCRETE SHALL INCLUDE INSPECTION DURING INSTALLATION OF REINFORCING STEEL. INSPECTION SHALL BE SCHEDULED SO THAT PLACEMENT OF REINFORCING STEEL, CONDUIT SLEEVES AND EMBEDDED ITEMS MAY BE CORRECTED PRIOR TO PLACEMENT OF OVERLYING GRIDS OF REINFORCING STEEL.
12. CONCRETE PROTECTION FOR REINFORCEMENT:

    CAST-IN-PLACE CONCRETE: THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT:

	MINIMUM COVER
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
CONCRETE EXPOSED TO EARTH OR WEATHER	
#6 & LARGER	2"
#5 & SMALLER	1 1/2"
SLABS, WALLS, OR JOISTS NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND	
#14 & LARGER	1 1/2"
#11 & SMALLER	3/4"
BEAM AND COLUMN TIES & STIRRUPS NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND	1 1/2"

STRUCTURAL OBSERVATIONS

1. STRUCTURAL OBSERVATION SHALL BE PERFORMED BY THE STRUCTURAL ENGINEER OF RECORD OR DESIGNEE IN ACCORDANCE WITH SECTION 1704.6 OF THE CODE.
2. STRUCTURAL OBSERVATION IS THE VISUAL OBSERVATION OF THE ELEMENTS AND CONNECTIONS OF THE STRUCTURAL SYSTEM AT SIGNIFICANT CONSTRUCTION STAGES AND THE COMPLETED STRUCTURE FOR GENERAL CONFORMANCE TO THE APPROVED PLANS AND SPECIFICATION. STRUCTURAL OBSERVATION DOES NOT WAVE THE RESPONSIBILITY FOR THE INSPECTIONS REQUIRED OF THE CITY OR DEPUTY INSPECTORS.
3. THE CONTRACTOR SHALL COORDINATE AND CALL FOR A PRE-CONSTRUCTION MEETING BETWEEN THE ENGINEER OR ARCHITECT RESPONSIBLE FOR THE STRUCTURAL DESIGN. STRUCTURAL OBSERVER, CONTRACTOR, AFFECTED SUBCONTRACTORS, PROJECT INSPECTOR. THE PURPOSE OF THE MEETING SHALL BE TO IDENTIFY THE MAJOR STRUCTURAL ELEMENTS AND CONNECTIONS THAT AFFECT THE VERTICAL AND LATERAL LOAD SYSTEMS OF THE STRUCTURE AND TO REVIEW SCHEDULING OF THE REQUIRED OBSERVATIONS.
4. THE STRUCTURAL OBSERVER SHALL PERFORM SITE VISITS AT THOSE STEPS IN THE PROGRESS OF THE WORK THAT ALLOW FOR CORRECTION OF DEFICIENCIES WITHOUT SUBSTANTIAL EFFORT OR UNCOVERING OF THE WORK INVOLVED. AT A MINIMUM, THE FOLLOWING SIGNIFICANT CONSTRUCTION STAGES REQUIRE A SITE VISIT AND AN OBSERVATION REPORT FROM THE STRUCTURAL OBSERVER.

CONSTRUCTION STAGES	ELEMENTS/CONNECTIONS TO BE OBSERVED
FOUNDATIONS	REINF/CONC/ANCHOR BOLTS
CONCRETE WALLS	REINF/EMBEDS
STEEL ERECTION	FRAMING/CONNECTIONS
CONCRETE SLABS	REINF/EMBEDS

5. THE STRUCTURAL OBSERVER SHALL PREPARE A REPORT FOR EACH SIGNIFICANT STATE OF CONSTRUCTION OBSERVED. A COPY OF THE OBSERVATION REPORT SHALL BE SENT TO THE OWNER, CONTRACTOR AND INSPECTOR OF RECORD (IOR).

TEST AND INSPECTION REQUIREMENTS

1. TEST AND INSPECTIONS SHALL CONFORM TO THE REQUIREMENTS OF CHAPTER 17, SECTION 1704 OF THE CODE.
2. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDA OR CHANGE ORDER APPROVED BY THE CITY.
3. A PROJECT INSPECTOR EMPLOYED BY THE OWNER AND APPROVED BY THE CITY SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24 CALIFORNIA CODE OF REGULATIONS.

CONCRETE

1. ALL CONCRETE CONSTRUCTION SHALL CONFORM WITH CHAPTER 19 OF THE CODE AND WITH THE PROVISIONS OF ACI 318, LATEST EDITION.
2. REINFORCED CONCRETE IS DESIGNED BY THE "ULTIMATE STRENGTH DESIGN METHOD".
3. CONCRETE MIXTURES SHALL BE DESIGNED BY THE APPROVED TESTING LABORATORY AND REVIEWED BY THE STRUCTURAL ENGINEER. THE COMPRESSIVE STRENGTH OF THE CONCRETE SHALL BE PROPORTIONED BASED AS INDICATED ON ACI 318-19.
4. SCHEDULE OF STRUCTURAL CONCRETE 28-DAY STRENGTH AND TYPES

LOCATIONS IN STRUCTURE	STRENGTH (PSI)	DENSITY (PCF)	MAX W/C RATIO
ALL MISC CONCRETE	4,000	145	0.45

5. PROVIDE CONCRETE MIXTURES THAT MEET THE DURABILITY REQUIREMENTS INDICATED IN THE GEOTECHNICAL REPORT AND PROJECT SPECIFICATIONS.
6. CONCRETE SHRINKAGE SHALL BE LIMITED TO 0.05 PERCENT PER ASTM C157.
7. CONCRETE SHALL BE MAINTAINED ABOVE 50 DEGREES FAHRENHEIT AND IN MOIST CONDITION FOR A MINIMUM OF 7 DAYS AFTER PLACEMENT.
8. PORTLAND CEMENT SHALL CONFORM TO ASTM C-150, TYPE V AS REQUIRED PROJECT SPECIFICATIONS. PROVIDE TYPE V WHERE CONCRETE IS IN CONTACT WITH CORROSIVE SOIL.
9. AGGREGATE FOR HARDROCK CONCRETE SHALL CONFORM TO ALL REQUIREMENTS AND TESTS OF ASTM C-33 AND PROJECT SPECIFICATIONS.
10. AGGREGATE FOR LIGHT WEIGHT CONCRETE SHALL BE OF THE EXPANDED SHALE TYPE CONFORMING TO ALL REQUIREMENTS AND TESTS OF ASTM-C330 AND PROJECT SPECIFICATIONS.
11. CONCRETE MIXING OPERATIONS, ETC. SHALL CONFORM TO ASTM C-94..
12. PLACEMENT OF CONCRETE SHALL CONFORM TO THE CODE CHAPTER 19 AND PROJECT SPECIFICATIONS. CLEAN AND ROUGHEN TO 1/4" AMPLITUDE ALL CONCRETE SURFACES AGAINST WHICH NEW CONCRETE IS TO BE PLACED UNLESS NOTED OTHERWISE.
13. ALL REINFORCING BARS, ANCHOR BOLTS AND OTHER CONCRETE INSERTS, INCLUDING PIPES AND CONDUITS, SHALL BE SECURED IN POSITION PRIOR TO PLACING CONCRETE.
14. PROVIDE SLEEVES FOR PIPES AND CONDUITS PASSING THROUGH CONCRETE MEMBERS INCLUDING CONCRETE OVER METAL DECK BEFORE PLACING. DO NOT CUT REINFORCING WHICH MAY CONFLICT. SLEEVES SHALL NOT EXCEED 6-INCHES IN DIAMETER AND SHALL BE SPACED A MINIMUM OF 3 DIAMETERS APART FROM OTHER SLEEVES USING THE LARGER SLEEVE DIAMETER, OR AS INDICATED ON THE DRAWINGS. CLUSTERS OF SLEEVES ARE NOT PERMITTED WITHOUT THE PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.
15. CORING IN CONCRETE IS NOT PERMITTED WITHOUT ARCHITECT REVIEW AND APPROVAL. NOTIFY THE STRUCTURAL ENGINEER IN ADVANCE OF CONDITIONS NOT SHOWN ON THE DRAWINGS.
16. CONDUITS LARGER THAN 1-1/2" DIAMETER MAY BE EMBEDDED IN STRUCTURAL CONCRETE WHERE SPECIFICALLY APPROVED BY STRUCTURAL ENGINEER. UNLESS DETAILED OTHERWISE, EMBEDDED CONDUIT SHALL CONFORM TO THE FOLLOWING:
    A. CONDUITS SHALL NOT DISPLACE OR INTERRUPT REINFORCING BARS.
    B. DO NOT STACK AND/OR CLUSTER CONDUITS.
    C. SPACE EMBEDDED CONDUITS A MINIMUM OF 3 DIAMETERS CLEAR FROM OTHER EMBEDDED CONDUITS USING THE LARGER CONDUIT DIAMETER.
    D. PROVIDE 1-1/2" CLEAR FROM REINFORCING BARS.
    E. NO HORIZONTAL CONDUITS SHALL BE PLACED IN CONCRETE FILL OVER METAL DECK.
    F. EMBEDDED CONDUITS SHALL BE PLACE IN THE MIDDLE THIRD OF SLABS, BEAMS, WALLS, FOOTINGS, ETC.
17. PIPES ARE NOT PERMITTED TO BE EMBEDDED IN CONCRETE.

CONSTRUCTION JOINTS

1. ALL CONSTRUCTION JOINTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 19 AND ACI 318 26.5.6 OF THE CODE AND THE TYPICAL CONSTRUCTION JOINT DETAILS SHOWN ON THE STRUCTURAL DRAWINGS.
2. ALL SURFACES OF CONSTRUCTION JOINTS SHALL BE CLEANED TO REMOVE DUST, CHIPS, STANDING WATER OR OTHER FOREIGN MATTER PRIOR TO PLACING CONCRETE.
3. THE CONTRACTOR SHALL SUBMIT THE PROPOSED LOCATIONS OF CONSTRUCTION JOINTS TO THE STRUCTURAL ENGINEER FOR REVIEW BEFORE STARTING CONSTRUCTION.

POST-INSTALLED CONCRETE ANCHORS

1. ALL EXPANSION TYPE ANCHORS SHALL CONSIST OF HILTI KWIK BOLT TZ2 CONCRETE ANCHORS PER ICC ESR-4266 REPORT. INSTALLATION SHALL BE IN CONFORMANCE WITH THE ICC REPORT.
2. ALL EPOXY TYPE ANCHORS SHALL CONSIST OF HILTI HIT HY-200 HYBRID ADHESIVE USED IN CONJUNCTION WITH DEFORMED REINFORCING BARS PER ICC REPORT ESR-3187. INSTALLATION OF ANCHORS SHALL BE IN CONFORMANCE WITH THE ICC REPORT.
3. WHEN INSTALLING DRILLED IN ANCHORS IN EXISTING NON-PRESTRESSED REINFORCED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS.
4. THE SPECIAL INSPECTOR MUST BE ON THE JOBSITE PERIODICALLY DURING ANCHOR INSTALLATION TO VERIFY ANCHOR TYPE, ANCHOR DIMENSIONS, CONCRETE TYPE, CONCRETE COMPRESSIVE STRENGTH, PREDRILLED HOLE DIMENSIONS, ANCHOR SPACING, EDGE DISTANCES, SLAB THICKNESS, ANCHOR EMBEDMENT AND TIGHTENING TORQUE.
5. TEST ALL POST-INSTALLED ANCHORS AS REQUIRED PER SECTION 1705 OF THE CODE.
6. ALL WEDGE ANCHORS SHALL BE CARBON STEEL, UNO. USE STAINLESS STEEL ANCHORS IN EXTERIOR EXPOSURE AND DAMP ENVIRONMENTS.

GENERAL

1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES.
2. ALL DRAWINGS, SPECIFICATIONS AND DOCUMENTS ENUMERATED IN THE OWNER/CONTRACTOR AGREEMENT ARE CONSIDERED TO BE PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO START OF CONSTRUCTION SO THAT A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR ARCHITECT.
3. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK. WHERE CONFLICTS BETWEEN DRAWINGS AND THE SPECIFICATIONS OCCUR, CONSTRUCTION SHALL FOLLOW THE MORE STRINGENT REQUIREMENT UNLESS OTHERWISE APPROVED BY SEOR.
4. ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING CODES:

   2022 CALIFORNIA BUILDING CODE, CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 2, VOLUME 2 OF 2 AND LATEST REVISIONS ADOPTED PRIOR TO PERMITTING REFERRED TO HERE AS "THE CODE", AND ANY OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK, INCLUDING STATE OF CALIFORNIA DIVISION OF OCCUPATIONAL SAFETY AND HEALTH (DOSH), AND THOSE CODES & STANDARDS LISTED IN THESE NOTES AND SPECIFICATIONS.
5. ALL REFERENCED STANDARDS SHALL BE THE VERSION INDICATED IN CHAPTER 35 OF THE CODE.
6. SEE ARCHITECTURAL DRAWINGS FOR THE FOLLOWING:
   A. SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS, EXCEPT AS NOTED.
   B. SIZE AND LOCATION OF ALL INTERIOR AND EXTERIOR NON-BEARING PARTITIONS UNLESS NOTED AND/OR DETAILED ON THE STRUCTURAL DRAWINGS.
   C. SIZE AND LOCATION OF ALL CONCRETE CURBS, EQUIPMENT PADS, PITS, FLOOR DRAINS, SLOPES, DEPRESSED AREAS, CHANGES IN LEVEL, CHAMFERS, GROOVES, INSERTS, ETC.
   D. SIZE AND LOCATION OF ALL FLOOR AND ROOF OPENINGS EXCEPT AS SHOWN.
   E. FLOOR AND ROOF FINISHES.
   F. MISCELLANEOUS DRAINAGE AND WATERPROOFING.
   G. ALL FIREPROOFING REQUIREMENTS INCLUDING FIREPROOFING OF STRUCTURAL STEEL.
   H. DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS.
7. SEE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR THE FOLLOWING:
   A. PIPE RUNS, SLEEVES, HANGERS, TRENCHES, WALL AND SLAB OPENINGS, ETC., EXCEPT AS SHOWN OR NOTED.
   B. ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS IN WALLS AND SLABS EXCEPT AS SHOWN OR NOTED.
   C. CONCRETE INSERTS FOR ELECTRICAL, MECHANICAL OR PLUMBING FIXTURES, EXCEPT AS SHOWN OR NOTED.
   D. SIZE AND LOCATION OF MACHINE OR EQUIPMENT BASES, ANCHOR BOLTS FOR MOTOR MOUNTS.
8. THE STRUCTURAL CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION, INCLUDING BUT NOT LIMITED TO BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT ETC. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER DO NOT INCLUDE REVIEW OF THE ABOVE ITEMS.
9. INVESTIGATE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILLED EXCAVATIONS OR BURIED STRUCTURES, SUCH AS CESSPOOLS, CISTERNS, FOUNDATIONS, ETC. IF ANY SUCH STRUCTURES ARE FOUND, NOTIFY THE ARCHITECT IMMEDIATELY.
10. OPENINGS, POCKETS, PENETRATIONS, NON-STRUCTURAL EMBEDS, ETC. SHALL NOT BE PLACED IN ANY STRUCTURAL MEMBER EXCEPT AS NOTED OR DETAILED ON THESE DRAWINGS. NOTIFY THE STRUCTURAL ENGINEER WHEN DRAWINGS BY OTHERS SHOW SUCH ITEMS PLACED IN A MANNER THAT IS NOT CONSISTENT WITH THE STRUCTURAL DRAWINGS.
11. THE CONTRACT STRUCTURAL DRAWINGS SHOW THE BUILDING IN ITS FINAL INTENDED POSITION. MAKE PROVISIONS IN THE CONSTRUCTION SEQUENCING OF THE BUILDING TO TAKE INTO ACCOUNTS SHRINKAGE, CREEP, SHORTENING, THERMAL EXPANSION, ETC.
12. CONSTRUCTION MATERIAL SHALL BE SPREAD OUT IF PLACED ON FRAMED ROOF OR FLOOR. LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT. PROVIDE ADEQUATE SHORING AND/OR BRACING WHERE STRUCTURE HAS NOT ATTAINED DESIGN STRENGTH.
13. CONTRACTOR SHALL PROVIDE FOR DESIGN AND INSTALLATION OF ALL CRIBBING, SHEATHING AND SHORING REQUIRED AND SHALL BE SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS AND UTILITIES IN ACCORDANCE WITH ALL NATIONAL, STATE AND LOCAL SAFETY ORDINANCES.
14. COORDINATE AND VERIFY EDGE OF SLAB DIMENSIONS PRIOR TO FABRICATION OR PLACEMENT OF FORMWORK.
15. OBTAIN AN UNDERGROUND SERVICE ALERT INQUIRY IDENTIFICATION NUMBER AT LEAST TWO WORKING DAYS BEFORE STARTING WORK WITH THIS PERMIT. DIAL 811 (OR 1-800-422-4133 FOR SOUTHERN CALIFORNIA PROJECTS)
16. THE CONTRACTOR SHALL VERIFY THE EXTENT AND LOCATIONS OF SITE UTILITIES PRIOR TO EXCAVATION OR SHORING , THERE MAY BE DISCREPANCIES BETWEEN THE LOCATION INDICATED ON THE SITE SURVEY AND ACTUAL VERIFIED LOCATIONS. IF THE ACTUAL FIELD VERIFIED LOCATION OF UTILITIES COULD RESULT IN A CONFLICT WITH THE NEW CONSTRUCTION OR SHORING, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
17. CONTRACTOR SHALL COORDINATE SHORING WITH DRAWINGS OF RECORD TO ENSURE PROVISIONS FOR POCKETS, BLOCKOUTS, OFFSETS, STEPPED FOOTINGS AND ANY OTHER ITEMS AFFECTED BY THE SHORING.
18. VERIFY THAT THE ACTUAL OPERATING WEIGHT OF ALL EQUIPMENT DOES NOT EXCEED THAT SHOWN ON THE DRAWINGS. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO INSTALLATION.
19. CONTRACTOR SHALL SUBMIT PLANS SHOWING ALL PROPOSED OPENINGS (SIZE & LOCATIONS) TO AOR & SEOR FOR REVIEW AND APPROVAL BEFORE START OF WORK.

DESIGN LOADS

1. DEAD LOADS

SELF WEIGHT OF MATERIALS	
ROOFING & INSULATION	5 PSF
LIGHTS, CEILINGS, SPRINKLERS, MEP	6 PSF
MISCELANEOUS	4 PSF
JOISTS	2 PSF

2. LIVE LOADS:

MEZZANINE	20 PSF (NON-REDUCIBLE)
ROOF	20 PSF (REDUCIBLE)

3. WIND LOADS:

   WIND LOADS ARE IN ACCORDANCE WITH SECTION 1609 OF THE CODE.

   RISK CATEGORY: IV

   WIND SPEED: Vult = 92 MPH (3 SECOND GUST)

   WIND EXPOSURE: B

   INTERNAL PRESSURE DOEFFICIENT: GCpi = $\pm$ 0.18
4. SEISMIC LOADS:

   SEISMIC LOADS ARE IN ACCORDANCE WITH SECTION 1613 OF THE CODE.

SEISMIC IMPORTANCE FACTOR:	I_e = 1.0 I_p = 1.0 (NON-STUCTURAL COMPONENTS)
RISK FACTOR:	II
MAPPED SPECTRAL RESPONSE ACCELERATION: PERAMETERS:	S_S = 2.241 S_1 = 0.793
DESIGN SPECTRAL RESPONSE ACCELERATION: PARAMETERS:	S_{DS} = 1.793 S_{D1} = NULL
SEIMIC DESIGN CATEGORY	D
SITE CLASS	D (DEFAULT)

FOUNDATION

1. FOUNDATIONS AND ALL SLAB ON GRADE SHALL BEAR ON FIRM NATURAL SOIL OR COMPACTED FILL. ALL UNSUITABLE FILLS ENCOUNTERED DURING CONSTRUCTION SHALL BE REMOVED TO FIRM NATIVE SOIL AND REPLACED WITH ENGINEERED COMPACTED FILL (WITH MINIMUM 95% COMPACTION) UNDER THE SUPERVISION OF THE GEOTECH/ DEPUTY INSPECTOR.
2. THE FOUNDATION DESIGN IS BASED ON MINIMUM PRESUMPTIVE LOAD BEARING VALUES FROM CBC 2022 SECTION 1806. FOOTINGS ARE DESIGNED BASED ON THE FOLLOWING INFORMATION:

   ALLOWABLE BEARING(*) = 1500 PSF

   ALLOWABLE BEARING MAY BE INCREASED BY 1/3 FOR WIND AND SEISMIC.
3. VERIFY LOCATION OF EXISTING UTILITIES AND OTHER EXISTING BELOW GRADE STRUCTURES PRIOR TO EXCAVATION.
4. FOUNDATIONS AND EXCAVATIONS ARE TO BE OBSERVED BY AND ACCEPTABLE TO A GEOTECH/DEPUTY INSPECTOR OR HIS/HER REPRESENTATIVE PRIOR TO PLACEMENT OF FILL, REINFORCING STEEL, OR CONCRETE.
5. ALL EXCAVATIONS SHALL BE PROPERLY BACKFILLED. BRACE OR PROTECT ALL BUILDING AND PIT WALLS BELOW GRADE FROM LATERAL LOADS UNTIL ATTACHING FLOORS ARE IN PLACE AND HAVE ATTAINED FULL STRENGTH. CONTRACTOR SHALL PROVIDE FOR DESIGN, PERMITS AND INSTALLATION OF SUCH BRACING.
6. FOOTING BACKFILL AND UTILITY BACKFILL WITHIN BUILDING AREA SHALL BE MECHANICALLY COMPACTED IN LAYERS UNDER THE SUPERVISION OF A DEPUTY INSPECTOR. FLOODING WILL NOT BE PERMITTED. ALL FILLS USED TO SUPPORT FOUNDATIONS SHALL BE INSPECTED BY THE GEOTECH/ DEPUTY INSPECTOR.
7. REMOVE ALL ABANDONED FOOTINGS, UTILITIES, ETC.
8. ALL WORK SHALL BE UNDER THE SUPERVISION OF A GEOTECH/ DEPUTY INSPECTOR.
9. PLACE A MOISTURE BARRIER MEMBRANE OVER SAND AND GRAVEL BASE UNDER SLABS-ON-GRADE PER THE GEOTECHNICAL REPORT, OR AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS.

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Issued For:

No.:	Description:	Date:
1	100% SCHEMATIC DESIGN	11 OCT 2024
2	100% DESIGN DEVELOPMENT	22 NOV 2024
	60% CONSTRUCTION DOCUMENTS	07 MAR 2025
	ISSUED FOR PERMIT	20 MAR 2025
	90% CONSTRUCTION DOCUMENT	08 AUG 2025
	ISSUED FOR BID	29 SEPT 2025

ISSUED FOR BID 13 OCT 2025

Key Plan:

Seal & Signature:

Sheet Name:
GENERAL STRUCTURAL NOTES

Project No.: 24.05
Drawn By: Author
Checked By: Checker
Scale: 12" = 1'-0"

Sheet No.:
S001

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TABLE 1 - REQUIRED SPECIAL INSPECTIONS

SYSTEM OR MATERIAL	INSPECTION TYPE	CODE REFERENCE	REFERENCED STANDARDS	REMARKS
SOILS				
1. VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY	PERIODIC	1705.6	GEOTECHNICAL REPORT	BY THE GEOTECHNICAL ENGINEER
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL	PERIODIC			
3. PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS	PERIODIC			
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL	CONTINUOUS			
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY	PERIODIC			
GEOTECHNICAL				
FILL IN-PLACE DENSITY OR PREPARED SUBGRADE DENSITY		1705.6	ASTM D1557	BY GEOTECHNICAL ENGINEER
MATERIAL VERIFICATION			CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIAL	BY GEOTECHNICAL ENGINEER
CONCRETE				
CONCRETE STRENGTH		1903 1705.3	ASTM C39	FABRICATE SPECIMENS AT TIME FRESH CONCRETE IS PLACED. TEST EACH 150 CY NOR LESS THAN EACH 5000 SF OF SLAB OR WALL PLACED EACH DAY
CONCRETE SLUMP			ASTM C143	
CONCRETE AIR CONTENT			ASTM C231	
CONCRETE TEMPERATURE			ASTM C1064	
UNIT WEIGHT OF FRESH STRUCTURAL LIGHTWEIGHT CONCRETE			ASTM C567	
FLOOR FLATNESS AND LEVELNESS			ASTM E1155	TEST WITHIN 24 HOURS OF FINISHING
SHOTCRETE STRENGTH		1910.5 1910.10	ASTM C39	SPECIMEN TAKEN FROM THE IN-PLACE OR FROM TEST PANELS. EACH 50 CY NOR LESS THAN EACH 5000 SF OF WALL PLACED EACH SHIFT
1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS AND VERIFY PLACEMENT	PERIODIC	1705.3 1908.4	ACI 318 CHAPTER 20, 25.2 - 25.3, 26.6.1 - 26.6.3	TOLERANCE AND REINFORCING PLACEMENT PER ACI 318, SECTION 26.6.2
2. REINFORCING BAR WELDING		1705.3	ACI 318 26.6.4 AWS D1.4, SECTION 7	VISUALLY INSPECT ALL WELDS. MATERIAL VERIFICATION OF REINFORCING STEEL FOR WELDING (CERTIFIED MILL TEST REPORTS). VERIFICATION OF WELD FILLER METALS, USE OF PROPER WPS'S AND WELDER QUALIFICATIONS
A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706	PERIODIC			
B. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"	PERIODIC			
C. INSPECT ALL OTHER WELDS	CONTINUOUS			
3. INSPECT ANCHORS CAST IN CONCRETE	PERIODIC		ACI 318 17.8.2	
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.				INSPECTION REQUIREMENTS PER ICC EVALUATION REPORT. VERIFY THAT ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATION ARE INSTALLED BY CERTIFIED INSTALLERS.
A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATION TO RESIST SUSTAINED TENSION LOADS.	CONTINUOUS		ACI 318 17.8.2.4	
B. MECHANICAL ANCHORS AND ADHESIVE NOT DEFINED IN 4A.	PERIODIC		ACI 318 17.8.2	
5. VERIFY USE OF REQUIRED DESIGN MIX	PERIODIC	1904.1, 1904.2, 1908.2, 1908.3	ACI 318 CH 19, 24.4.3, 26.4.4	VERIFY THAT ALL MIXES USED COMPLY WITH APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED CODES AND STANDARDS
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TEST, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE TEMPERATURE OF CONCRETE.	CONTINUOUS	1908.10	ASTM C172 ASTM C31 ACI 318 26.4, 26.12	
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	CONTINUOUS	1904.6, 1908.7, 1908.8	ACI 318 26.5	
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	PERIODIC	1908.9	ACI 318 26.5.3 - 26.5.5	
9. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	PERIODIC		ACI 318 26.11.2	
10. INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF CONCRETE MEMBER BEING FORMED.	PERIODIC		ACI 318 26.11.1.2(b)	
11. INSPECT INSTALLATION OF MECHANICAL COUPLING DEVICES.	CONTINUOUS		ICC EVALUATION REPORT	VERIFY GRADE AND SIZE OF REBAR BEING SPLICED, COUPLER IDENTIFICATION AND POSITION, AND INSTALLATION OF COUPLER

TABLE 1 (CONT.) - REQUIRED SPECIAL INSPECTIONS

SYSTEM OR MATERIAL	INSPECTION TYPE	CODE REFERENCE	REFERENCED STANDARDS	REMARKS
STEEL				
INSPECTION TASKS PRIOR TO WELDING				
1. WELDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE	PERFORM	1705.2.1	AISC 360, TABLE N5.4-1 AISC 341, TABLE J6-1	
2. MANUFACTURER CERTIFICATION FOR WELDING CONSUMABLES AVAILABLE	PERFORM			
3. MATERIAL IDENTIFICATION (TYPE/GRADE)	OBSERVE			
4. WELDER IDENTIFICATION SYSTEM	OBSERVE			
5. FIT-UP GROOVE WELDS (INCLUDING JOINT GEOMETRY)	OBSERVE			VERIFY JOINT PREPARATION, DIMENSIONS, CLEANLINESS, TACK WELD QUALITY, BACKING TYPE AND FIT
6. CONFIGURATION AND FINISH OF ACCESS HOLE	OBSERVE			
7. FIT-UP OF FILLET WELDS	OBSERVE			VERIFY ALIGNMENT, GAPS AT ROOT, CLEANLINESS OF STEEL SURFACES, AND QUALITY OF TACK WELD
8. CHECK WELDING EQUIPMENT	OBSERVE			
INSPECTION TASKS DURING WELDING				
1. USE OF QUALIFIED WELDERS	OBSERVE	1705.2.1	AISC 360, TABLE N5.4-2 AISC 341, TABLE J6-2	
2. CONTROL AND HANDLING OF WELDING CONSUMABLES	OBSERVE			VERIFY PACKAGING AND EXPOSURE CONTROL
3. NO WELDING OVER TACK WELDS	OBSERVE			
4. ENVIRONMENTAL CONDITIONS	OBSERVE			VERIFY WIND SPEED IS WITHIN LIMITS AS WELL AS PRECIPITATION AND TEMPERATURE
5. WELDING PROCEDURE SPECIFICATION (WPS) FOLLOWED	OBSERVE			VERIFY SETTINGS ON WELDING EQUIPMENT, TRAVEL SPEED, SELECTED WELDING MATERIALS, SHIELDING GAS TYPE/FLOW RATE, PREHEAT APPLIED, INTERPASS TEMPERATURE MAINTAINED, AND PROPER POSITION (F, V, H, OH)
6. WELDING TECHNIQUES	OBSERVE			VERIFY INTERPASS AND FINAL CLEANING, PROFILE LIMITATIONS AND QUALITY OF EACH PASS
INSPECTION TASKS AFTER WELDING				
1. WELDS CLEANED	OBSERVE	1705.2.1	AISC 360, TABLE N5.4-3 AISC 341, TABLE J6-3	
2. SIZE, LENGTH, AND LOCATION OF WELDS	PERFORM			
3. WELDS MEET VISUAL ACCEPTANCE CRITERIA	PERFORM			VERIFY CRACK PROHIBITION, WELD/BASE-METAL FUSION, CRATER CROSS SECTION, WELD PROFILES AND SIZE, UNDERCUT, AND POROSITY. DOCUMENT FINDINGS IN REPORT.
4. ARC STRIKES	PERFORM			
5. K-AREA	PERFORM			VISUALLY INSPECT WEB IN K-AREA FOR CRACKS WITHIN 3" OF WELD WHERE WELDS ARE PROVIDED IN THE K-AREA.
6. BACKING REMOVED AND WELD TABS REMOVED WHERE REQUIRED	PERFORM			
7. PLACEMENT OF REINFORCING OR CONTOURING FILLET WELDS WHERE REQUIRED	PERFORM			
8. REPAIR ACTIVITIES	PERFORM			
9. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	PERFORM			
INSPECTION TASKS PRIOR TO BOLTING				
1. MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	PERFORM	1705.2.1	AISC 360, TABLE N5.6-1 AISC 341, TABLE J7-1	
2. FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	OBSERVE			
3. PROPER FASTENER SELECTED FOR THE JOINT DETAIL.	OBSERVE			VERIFY GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE.
4. PROPER BOLTING PROCEDURE SELECTED FOR THE JOINT DETAIL	OBSERVE			
5. CONNECTING ELEMENTS MEET APPLICABLE REQUIREMENTS	OBSERVE			VERIFY FAYING SURFACE CONDITION AND HOLD PREPARATION
6. PRE-INSTALLATION VERIFICATION TESTING BY INSTALLING PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED.	OBSERVE			
7. PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENT	OBSERVE			

SPECIAL INSPECTIONS

1. THE FOLLOWING ELEMENTS OF CONSTRUCTION SHALL HAVE CONTINUOUS INSPECTION BY A PROJECT INSPECTOR APPROVED BY THE JURISDICTION.
   - A. CONCRETE.
   - B. BOLTS INSTALLED IN CONCRETE.
   - C. PLACING OF REINFORCING STEEL.
   - D. SEE GEOTECHNICAL ENGINEER'S REPORT FOR SPECIFIC INSPECTION REQUIREMENTS BY A SOILS ENGINEER REPRESENTATIVE.
2. ALL SPECIAL INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 1704 OF THE CODE AND ANY ADDITIONAL REQUIREMENTS STATED IN THESE DRAWINGS AND/OR THE PROJECT SPECIFICATIONS.
3. OWNER WILL RETAIN A QUALIFIED, INDEPENDENT SPECIAL INSPECTION AGENCY TO PERFORM SPECIAL INSPECTIONS AND TESTS PER CHAPTER 17 OF THE CODE. REFER TO TABLE 1 FOR TESTS AND INSPECTIONS THAT WILL BE PERFORMED.
4. SPECIAL INSPECTOR WILL OBSERVE THE INDICATED WORK FOR COMPLIANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS. ALL NON-CONFORMING WORK WILL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION AND NOTED IN THE INSPECTION REPORTS.
5. TESTING FREQUENCIES IDENTIFIED IN THE STATEMENT OF SPECIAL INSPECTION ARE DEFINED AS FOLLOWS:
   - a. CONTINUOUS: THE FULL-TIME OPERSERVATION OF WORK REQUIRING SPECIAL INSPETION BY THE SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED.
   - b. PERIODIC: THE PART-TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEEN OR IS BEING PERFORMED AND AT THE COMPLETION OF THE WORK.
   - c. OBSERVE: THE SPECAIL INSPECTOR WILL OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.
   - d. PERFORM: THE SPECIAL INSPECTOR WILL PERFORM THESE TASKS FOR EACH ELEMENT.
   - e. DOCUMENT: THE SPECIAL INSPECTOR WILL DOCUMENT IN A REPORT THAT THE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

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GENERAL STRUCTURAL NOTES

Project No.: 24.05
Drawn By: Author
Checked By: Checker
Scale: 12" = 1'-0"

Sheet No.: S002

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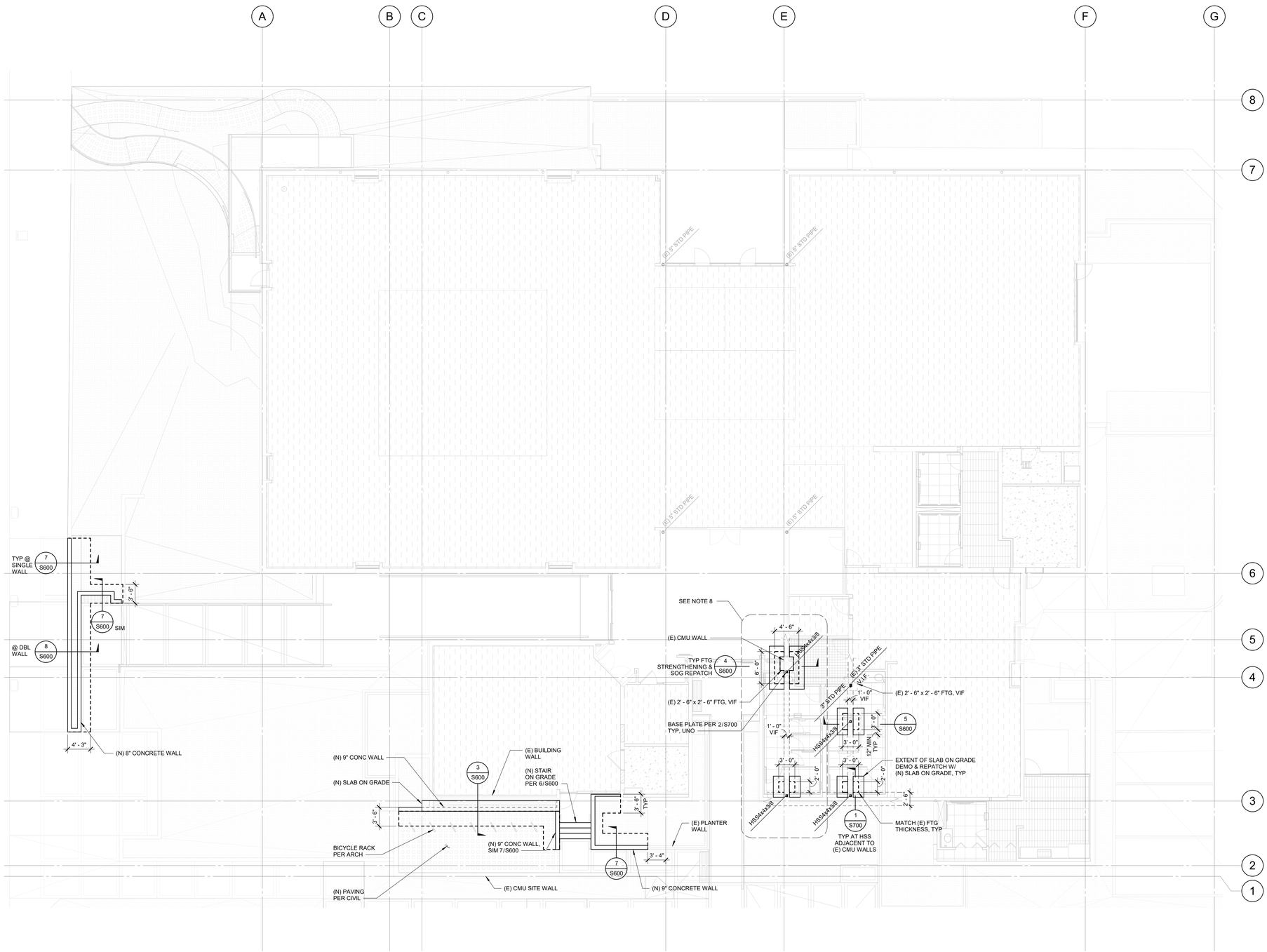

1 FIRST FLOOR PLAN
SCALE : 1/8" = 1'-0"

NOTES:

1. SEE SHEET S001 FOR GENERAL NOTES.
2. SEE SHEET S600 THRU S800 FOR TYPICAL DETAILS.
3. VERIFY ALL DIMENSIONS PER ARCHITECTURAL DRAWINGS. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN.
4. ALL CONDITIONS INCLUDING EXISTING FOUNDATIONS, FRAMING, AND CONNECTIONS SHALL BE FIELD VERIFIED PRIOR TO START OF DEMOLITION AND ANY CONSTRUCTION. NOTIFY ARCHITECT AND ENGINEER IF ANY FIELD CONDITION DIFFERS FROM THE PLANS. ANY DISCREPANCIES OR CHANGES TO ASSUMPTIONS MUST BE ADDRESSED BEFORE PROCEEDING WITH DEMOLITION AND CONSTRUCTION.
5. DO NOT CUT OR DAMAGE EXISTING FOUNDATIONS AND WALLS THAT ARE TO REMAIN.
6. EXISTING ROOF STRUCTURE ABOVE SHALL BE SHORED PRIOR TO THE START OF WALL DEMOLITION. SEE ARCHITECTURAL DRAWINGS FOR THE EXTENT OF DEMOLITION.
7. EXISTING STRUCTURE SHALL BE SHORED PRIOR TO THE START OF DEMOLITION WORK.
8. CONTRACTOR TO NOTIFY SEOR WHEN ACCESS CAN BE PROVIDED TO THE AREA WITHIN THE LIMIT SHOWN PRIOR TO STRUCTURAL DEMOLITION AND CONSTRUCTION IN ORDER FOR SEOR TO VERIFY AND CONFIRM EXISTING BEARING CONDITION AT EXISTING WALL.

LEGEND:

- INDICATES EXISTING PIPE COLUMN
- INDICATES NEW HSS COLUMN
- INDICATES EXISTING FOUNDATION
- INDICATES NEW FOUNDATION

N

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FIRST FLOOR PLAN

Project No.: 24.05
Drawn By: Author
Checked By: Checker
Scale: 1/8" = 1'-0"

Sheet No.:
S200

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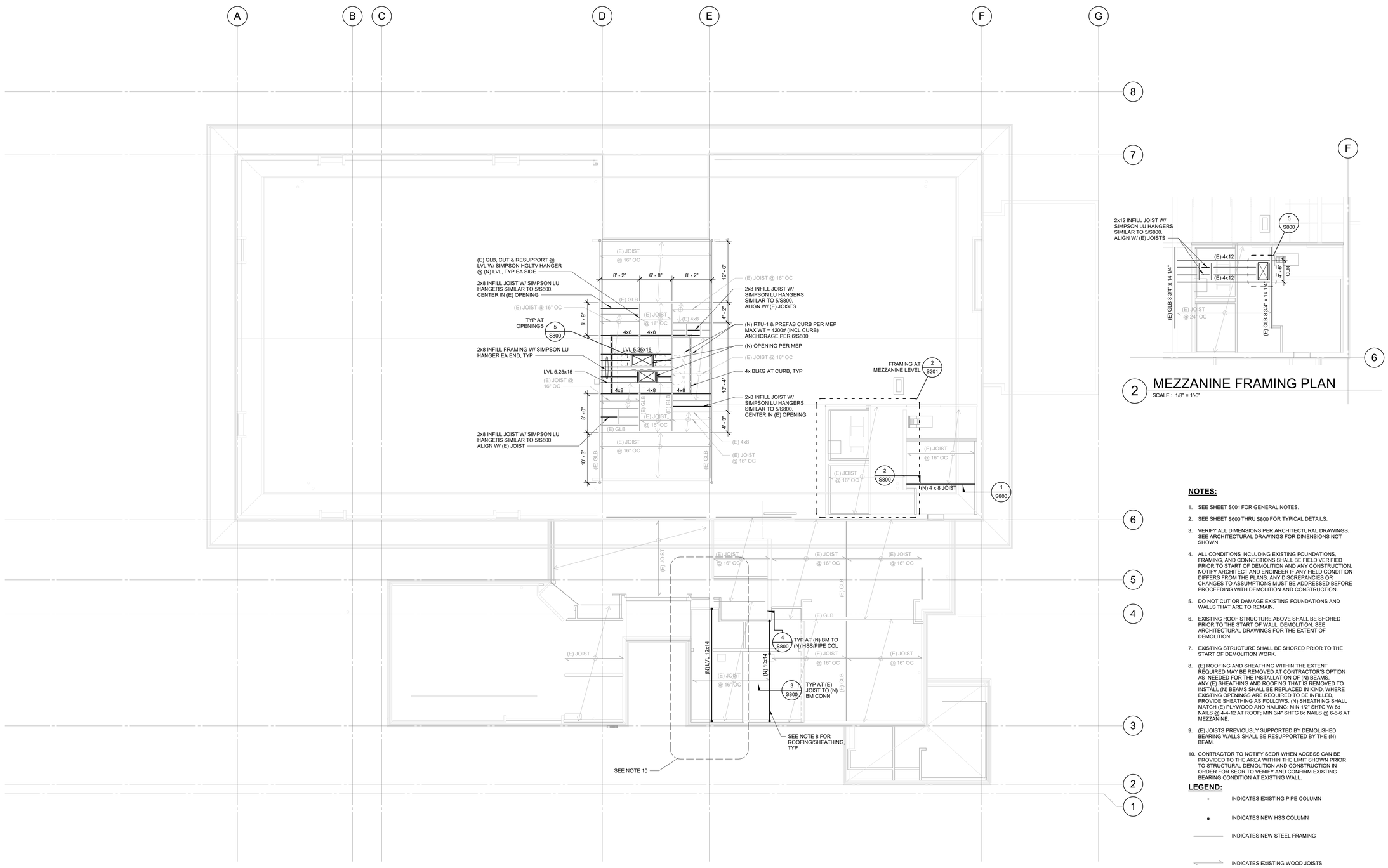

1 ROOF PLAN
SCALE : 1/8" = 1'-0"

2 MEZZANINE FRAMING PLAN
SCALE : 1/8" = 1'-0"

NOTES:

1. SEE SHEET S001 FOR GENERAL NOTES.
2. SEE SHEET S600 THRU S800 FOR TYPICAL DETAILS.
3. VERIFY ALL DIMENSIONS PER ARCHITECTURAL DRAWINGS. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN.
4. ALL CONDITIONS INCLUDING EXISTING FOUNDATIONS, FRAMING, AND CONNECTIONS SHALL BE FIELD VERIFIED PRIOR TO START OF DEMOLITION AND ANY CONSTRUCTION. NOTIFY ARCHITECT AND ENGINEER IF ANY FIELD CONDITION DIFFERS FROM THE PLANS. ANY DISCREPANCIES OR CHANGES TO ASSUMPTIONS MUST BE ADDRESSED BEFORE PROCEEDING WITH DEMOLITION AND CONSTRUCTION.
5. DO NOT CUT OR DAMAGE EXISTING FOUNDATIONS AND WALLS THAT ARE TO REMAIN.
6. EXISTING ROOF STRUCTURE ABOVE SHALL BE SHORED PRIOR TO THE START OF WALL DEMOLITION. SEE ARCHITECTURAL DRAWINGS FOR THE EXTENT OF DEMOLITION.
7. EXISTING STRUCTURE SHALL BE SHORED PRIOR TO THE START OF DEMOLITION WORK.
8. (E) ROOFING AND SHEATHING WITHIN THE EXTENT REQUIRED MAY BE REMOVED AT CONTRACTOR'S OPTION AS NEEDED FOR THE INSTALLATION OF (N) BEAMS. ANY (E) SHEATHING AND ROOFING THAT IS REMOVED TO INSTALL (N) BEAMS SHALL BE REPLACED IN KIND. WHERE EXISTING OPENINGS ARE REQUIRED TO BE INFILLED, PROVIDE SHEATHING AS FOLLOWS. (N) SHEATHING SHALL MATCH (E) PLYWOOD AND NAILING: MIN 1/2" SHTG W/ 8d NAILS @ 4-4-12 AT ROOF; MIN 3/4" SHTG 8d NAILS @ 6-6-6 AT MEZZANINE.
9. (E) JOISTS PREVIOUSLY SUPPORTED BY DEMOLISHED BEARING WALLS SHALL BE RESUPPORTED BY THE (N) BEAM.
10. CONTRACTOR TO NOTIFY SEOR WHEN ACCESS CAN BE PROVIDED TO THE AREA WITHIN THE LIMIT SHOWN PRIOR TO STRUCTURAL DEMOLITION AND CONSTRUCTION IN ORDER FOR SEOR TO VERIFY AND CONFIRM EXISTING BEARING CONDITION AT EXISTING WALL.

LEGEND:

- INDICATES EXISTING PIPE COLUMN
- INDICATES NEW HSS COLUMN
- INDICATES NEW STEEL FRAMING
- INDICATES EXISTING WOOD JOISTS

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ROOF PLAN

Project No.:	Sheet No.:
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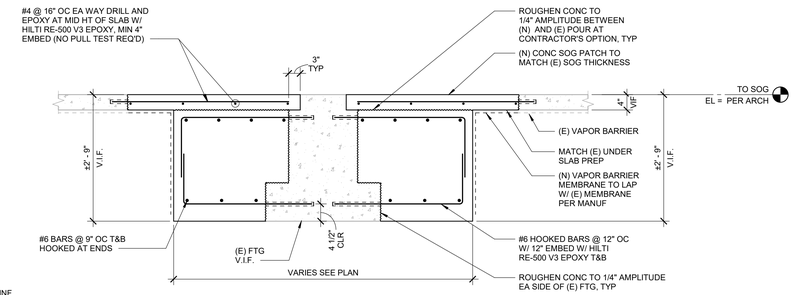
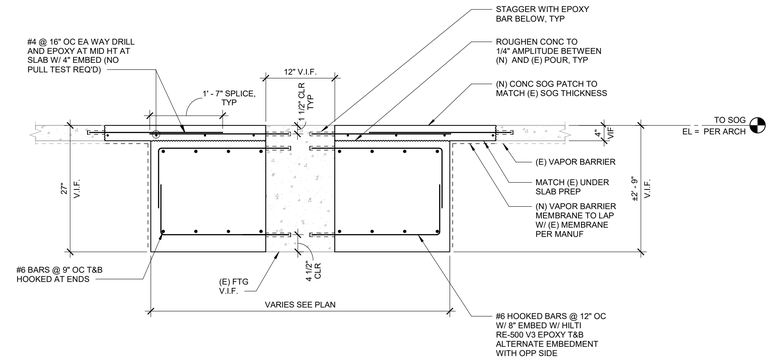


NOTE:

SCAN FOR (E) REINF. (E) REINF SHALL NOT BE DAMAGED DURING DRILLING FOR (N) EPOXY BARS.

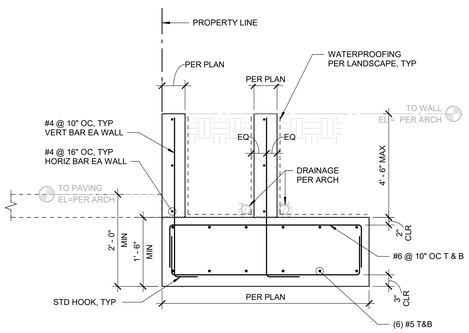
4 (E) FOUNDATION STRENGTHENING DETAIL

SCALE : 3/4" = 1'-0"



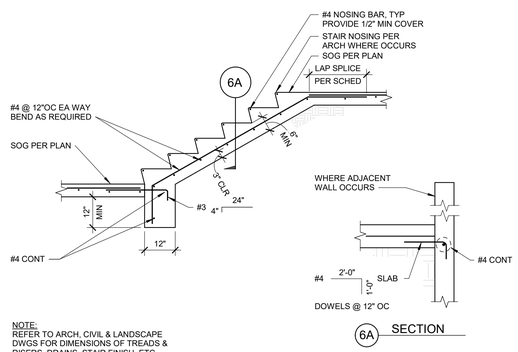
5 (E) FOUNDATION STRENGTHENING DETAIL

SCALE : 3/4" = 1'-0"



8 (N) SITE WALL

SCALE : 3/4" = 1'-0"

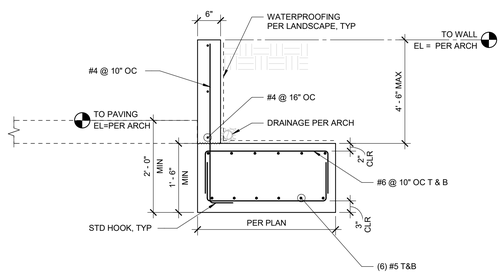


NOTE:
REFER TO ARCH, CIVIL & LANDSCAPE DWGS FOR DIMENSIONS OF TREADS & RISERS, DRAINS, STAIR FINISH, ETC.

6A SECTION

6 STAIR ON GRADE

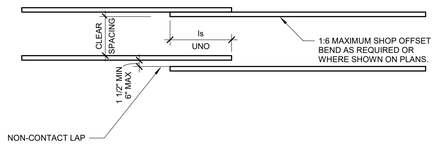
SCALE : 1/2" = 1'-0"



7 (N) PLANTER RETAINING WALL

SCALE : 3/4" = 1'-0"

REBAR LAP SPLICE LENGTH SCHEDULE									
BAR SIZE	LAP CLASS	NORMAL WEIGHT CONCRETE							
		f'c = 3000 psi				f'c = 4000 psi			
		Top Bars		Other Bars		Top Bars		Other Bars	
		Case 1	Case 2	Case 1	Case 2	Case 1	Case 2	Case 1	Case 2
3	A	1'-10"	2'-9"	1'-5"	2'-1"	1'-7"	2'-4"	1'-3"	1'-10"
	B	2'-4"	3'-6"	1'-10"	2'-9"	2'-1"	3'-1"	1'-7"	2'-4"
4	A	2'-5"	3'-7"	1'-10"	2'-9"	2'-1"	3'-1"	1'-7"	2'-5"
	B	3'-2"	4'-8"	2'-5"	3'-7"	2'-9"	4'-1"	2'-1"	3'-1"
5	A	3'-0"	4'-6"	2'-4"	3'-6"	2'-7"	3'-11"	2'-0"	3'-0"
	B	3'-11"	5'-10"	3'-0"	4'-6"	3'-5"	5'-1"	2'-7"	3'-11"
6	A	3'-7"	5'-5"	2'-9"	4'-2"	3'-1"	4'-8"	2'-5"	3'-7"
	B	4'-8"	7'-0"	3'-7"	5'-5"	4'-1"	6'-1"	3'-1"	4'-8"
7	A	5'-3"	7'-10"	4'-0"	6'-0"	4'-6"	6'-9"	3'-6"	5'-3"
	B	6'-9"	10'-2"	5'-3"	7'-10"	5'-11"	8'-10"	4'-6"	6'-9"
8	A	6'-0"	8'-11"	4'-7"	6'-11"	5'-2"	7'-9"	4'-0"	6'-0"
	B	7'-9"	11'-7"	6'-0"	8'-11"	6'-9"	10'-1"	5'-2"	7'-9"
9	A	6'-9"	10'-1"	5'-2"	7'-9"	5'-10"	8'-9"	4'-6"	6'-9"
	B	8'-9"	13'-1"	6'-9"	10'-1"	7'-7"	11'-4"	5'-10"	8'-9"
10	A	7'-7"	11'-4"	5'-10"	8'-9"	6'-7"	9'-10"	5'-1"	7'-7"
	B	9'-10"	14'-9"	7'-7"	11'-4"	8'-6"	12'-9"	6'-7"	9'-10"
11	A	8'-5"	12'-7"	6'-6"	9'-8"	7'-3"	10'-11"	5'-7"	8'-5"
	B	10'-11"	16'-4"	8'-5"	12'-7"	9'-6"	14'-2"	7'-3"	10'-11"



1A TYPICAL LAP SPLICES

1B STAGGERED SPLICING

NOTES:

1. CASES 1 AND 2 WHICH DEPEND ON CLEAR CONCRETE COVER AND THE CENTER-TO-CENTER SPACING OF THE BARS ARE DEFINED AS:
   CASE 1: COVER AT LEAST 1db AND CLEAR SPACING AT LEAST 2db.
   CASE 2: COVER LESS THAN 1db OR CLEAR SPACING LESS THAN 2db.
2. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW THE BARS.
3. OTHER BARS INCLUDE VERTICAL BARS AND HORIZONTAL BARS WITH LESS THAN 12 INCHES OF CONCRETE CAST BELOW HORIZONTAL BARS.
4. BAR SPLICES NOT COVERED BY THIS SCHEDULE ARE SPECIFICALLY DETAILED AND DIMENSIONED PER PLANS.
5. ALL SPLICES SHALL BE CLASS 'B' UNLESS OTHERWISE ON PLANS.
6. FOR DEVELOPMENT LENGTH, Ld, USE CLASS 'A' LAP SPLICE LENGTH.
7. FOR LAP SPLICES OF BARS IN SHEAR WALLS, REFER TO LAP SPLICE AND DEVELOPMENT SCHEDULE IN CONCRETE WALL ELEVATIONS.
8. THIS SCHEDULE IS FOR GR 60 REINFORCEMENT.
9. CAN USE 1.25 x LAP SPLICE IN LIEU OF NOTE 7 AT SHEAR WALLS.
10. FOR STAGGERED SPLICES, CLEAR SPACING SHOWN IN DIAGRAM MAY BE USED TO DETERMINE CASE 1 OR CASE 2 PER NOTE 1

1 DEVELOPMENT AND LAP SPLICE OF CONCRETE REINFORCEMENT BARS- NW CONCRETE

12" = 1'-0"

TYPE OF STANDARD HOOK	BAR SIZE	MINIMUM INSIDE BEND DIAMETER, IN	STRAIGHT EXTENSION [1] ℓ_{EXT}, IN	TYPE OF STANDARD HOOK
90-DEGREE HOOK	#3 THROUGH #8	$6d_b$	$12d_b$	POINT AT WHICH BAR IS DEVELOPED; FACE OF CONCRETE; d_b; 90° BEND; DIAMETER; ℓ_{EXT}; 2" CLR MIN; ℓ_{dh}
	#9 THROUGH #11	$8d_b$		
	#14 THROUGH #18	$10d_b$		
180-DEGREE HOOK	#3 THROUGH #8	$6d_b$	GREATER OF $4d_b$ AND 2.5 IN	POINT AT WHICH BAR IS DEVELOPED; FACE OF CONCRETE; d_b; 180° BEND; DIAMETER; ℓ_{EXT}; 2" CLR MIN; ℓ_{dh}
	#9 THROUGH #11	$8d_b$		
	#14 THROUGH #18	$10d_b$		

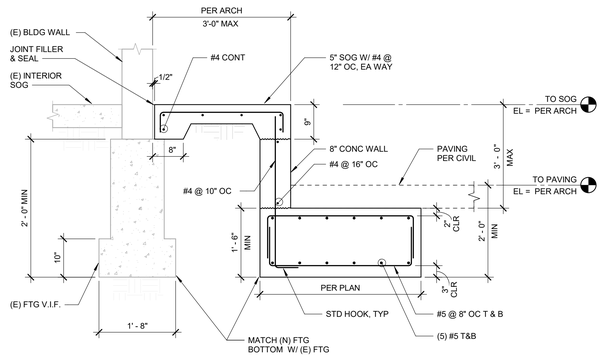
STANDARD HOOK DEVELOPMENT LENGTH "ℓ_{dh}"				
			NORMAL WEIGHT	
BAR SIZE	D	"ℓ_{dh}"	3000	4000
#3	2 1/4"	5"	0'-9"	0'-8"
#4	3"	8"	0'-11"	0'-10"
#5	3 3/4"	10	1'-2"	1'-0"
#6	4 1/2"	12	1'-5"	1'-3"
#7	5 1/4"	1'-2"	1'-8"	1'-5"
#8	6"	1'-4"	1'-10"	1'-7"
#9	9 1/2"	1'-7 1/2"	2'-1"	1'-10"
#10	10 3/4"	1'-10"	2'-4"	2'-1"
#11	12"	2'-0 1/2"	2'-7"	2'-3"

NOTES:

1. ACI 318-14 TABLE 25.3.2.
2. ALL HOOKED BARS SHALL EXTEND AS FAR AS POSSIBLE WITH A MINIMUM 2" END COVER AND WITH EMBEDMENT NOT LESS THAN SHOWN ON THE SCHEDULE. UNO ON PLANS.

2 STANDARD HOOK DEVELOPMENT LENGTH BENDING DETAIL

SCALE : 1" = 1'-0"



3 (N) RETAINING WALL AND FOUNDATION DETAIL

SCALE : 3/4" = 1'-0"

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	ISSUED FOR BID	29 SEPT 2025

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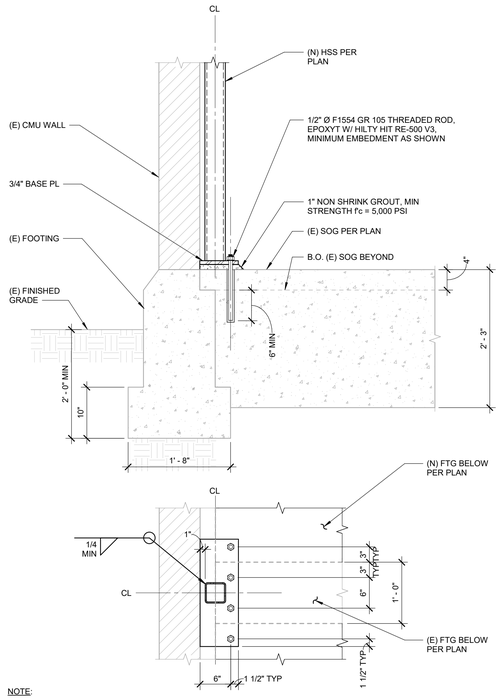


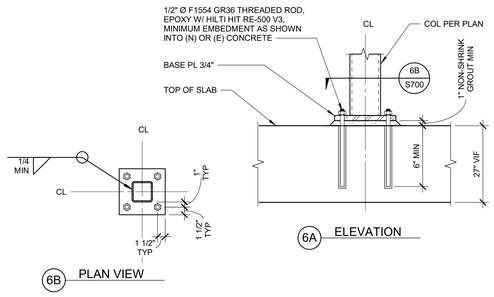
NOTE:

VERIFY ALL EXISTING CONSTRUCTION IN FIELD AND NOTIFY ENGINEER FOR ANY DISCREPANCIES PRIOR TO CONSTRUCTION.

5A PLAN VIEW

1 (N) COLUMN BASE PLATE AT (E) CMU WALL

SCALE : 1" = 1'-0"



6B PLAN VIEW

6A ELEVATION

2 (N) HSS COLUMN BASE PLATE DETAIL

SCALE : 1" = 1'-0"

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Checked By: Checker

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Sheet No.: S700

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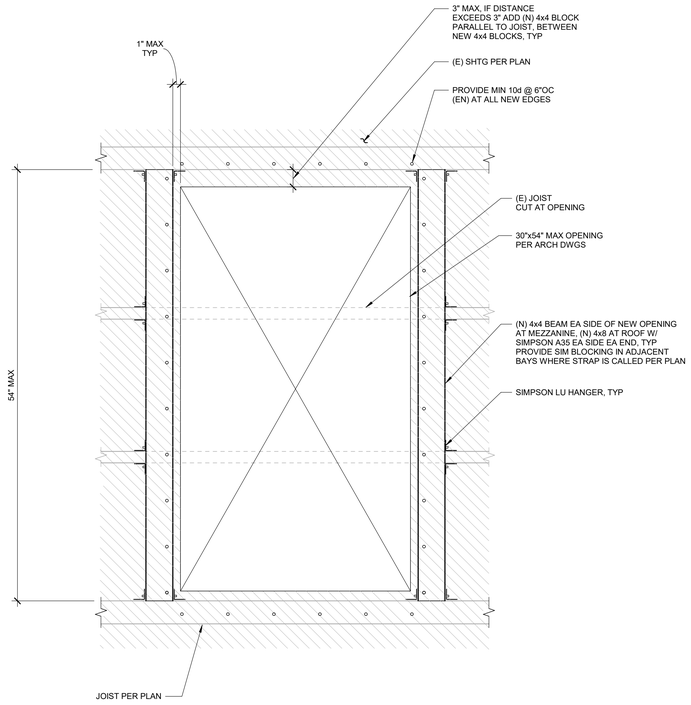
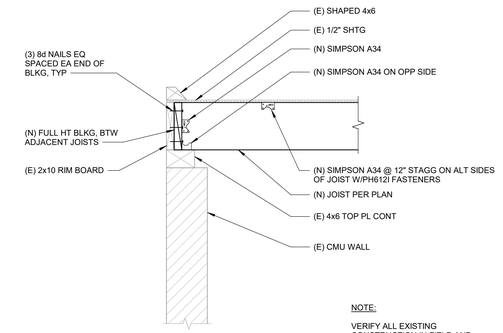


5 HORIZONTAL FRAMING AT OPENINGS

SCALE : 1 1/2" = 1'-0"

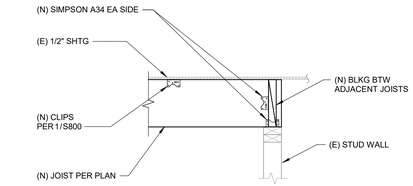


NOTE:

VERIFY ALL EXISTING CONSTRUCTION IN FIELD AND NOTIFY ENGINEER FOR ANY DISCREPANCIES PRIOR TO CONSTRUCTION.

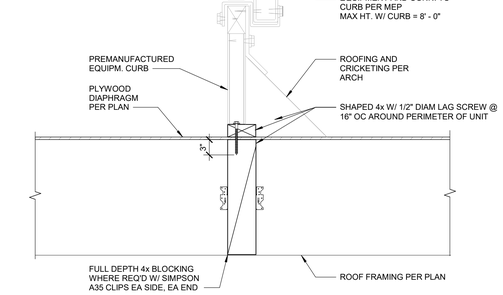
1 (N) JOIST TO (E) CMU WALL

SCALE : 1" = 1'-0"



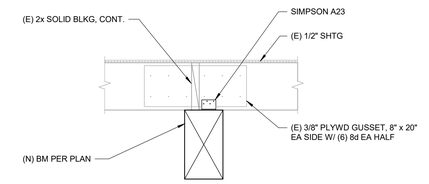
2 (N) JOIST AT (E) STUD WALL

SCALE : 1" = 1'-0"



6 EQUIPMENT ANCHORAGE ON PREMANUFACT. CURB

SCALE : 1" = 1'-0"

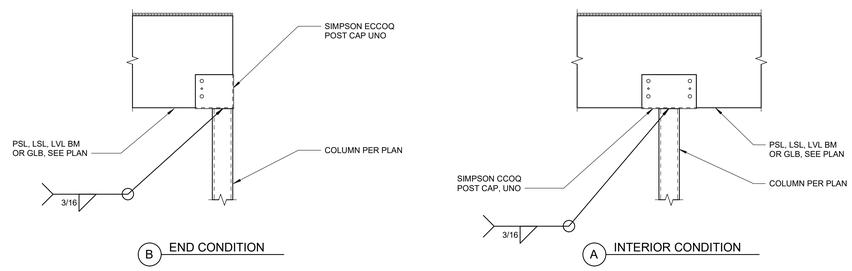


NOTE:

VERIFY ALL EXISTING CONSTRUCTION IN FIELD AND NOTIFY ENGINEER FOR ANY DISCREPANCIES PRIOR TO CONSTRUCTION.

3 (N) WOOD BM AT (E) JOISTS

SCALE : 1" = 1'-0"



4 WOOD BEAM TO HSS/PIPE COLUMN CONN

SCALE : 1" = 1'-0"

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MECHANICAL SYMBOL LIST

NOTE: This is a standard symbol list and not all items listed may be used.

Abbreviations

AFF	ABOVE FINISHED FLOOR
AD	ACCESS DOOR
A/C	AIR CONDITION(ED)
AHU	AIR HANDLING UNIT
BDD	BACKDRAFT DAMPER
BFP	BACKFLOW PREVENTER
BFF	BELOW FINISHED FLOOR
B	BOILER
BHP	BRAKE HORSEPOWER
CD	CEILING DIFFUSER
CL	CENTERLINE
CV	CHECK VALVE
CH	CHILLER
COP	COEFFICIENT OF PERFORMANCE
CW	COLD WATER
CD	CONDENSATE DRAIN
CU	CONDENSING UNIT
CONT.	CONTINUATION
CT	COOLING TOWER
DB	DECIBEL
DP	DEW POINT, DIFFERENTIAL PRESSURE
DIA	DIAMETER
DX	DIRECT EXPANSION
DG	DOOR GRILLE
D	DROP
DB	DRY BULB
EFF	EFFICIENT
ELECT	ELECTRICAL
EL	ELEVATION
EER	ENERGY EFFICIENCY RATING
EAT	ENTERING AIR TEMPERATURE
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
EF	EXHAUST FAN
(E)	EXISTING
FA	FACE AREA
F	FAHRENHEIT
FC	FAN COIL
FT	FEET
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FPI	FINS PER INCH
FD	FIRE DAMPER
FC	FLEXIBLE CONNECTOR
FLA	FULL LOAD AMPS
GAL	GALLONS
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HD	HEAD
HP	HEAT PUMP
HTR	HEATER
HTG	HEATING
HP	HORSEPOWER
HWC	HOT WATER COIL
IN	INCHES
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
KW	KILOWATT
LH	LATENT HEAT
LAT	LEAVING AIR TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
MW	MAKE-UP WATER
MAX	MAXIMUM
MIN	MINIMUM
MA	MIXED AIR
MS	MOTOR STARTER
MD	MOTORIZED DAMPER
MH	MOUNTING HEIGHT
(N)	NEW
NC	NOISE CRITERIA
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
NO.	NUMBER
OC	ON CENTER
OBD	OPPOSED BLADE DAMPER
OA	OUTSIDE AIR
OD	OUTSIDE DIAMETER
PH	PHASE
LBS.	POUNDS
PSI	POUNDS PER SQUARE INCH
PD	PRESSURE DROP
PRV	PRESSURE REDUCING VALVE
P	PUMP
QTY	QUANTITY
REF	REFRIGERANT
RL	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION
RH	RELATIVE HUMIDITY
RLD	RELIEF DAMPER
(R)	RELOCATE/RELOCATED LOCATION
RET	RETURN
RA	RETURN AIR
RPM	REVOLUTIONS PER MINUTE
R	RISE
SEER	SEASONAL ENERGY EFFICIENCY RATING
SH	SENSIBLE HEAT
SOV	SHUT OFF VALVE
SF	SQUARE FEET
SP	STATIC PRESSURE
SA	SUPPLY AIR
T, TEMP	TEMPERATURE
TD	TEMPERATURE DIFFERENCE
MBH	THOUSAND BTU'S PER HOUR
TH	TOTAL HEAT
TP	TOTAL PRESSURE
UD	UNDERCUT DOOR
VAV	VARIABLE AIR VOLUME
VEL	VELOCITY
V	VOLT
VD	VOLUME DAMPER (HAND OPERATOR)
WC	WATER COLUMN
W	WATT
WB	WET BULB
W/	WITH

Control Symbols

- CARBON DIOXIDE SENSOR
- SPACE TEMPERATURE SENSOR/THERMOSTAT

Dampers

- FIRE DAMPER
- FIRE/SMOKE DAMPER
- MOTORIZED DAMPER
- SMOKE DAMPER
- VOLUME DAMPER

Diffusers and Grilles

- DIFFUSER OR GRILLE IDENTIFICATION
- EXHAUST AIR
- RETURN AIR
- SUPPLY AIR

Ductwork Fittings

- ACOUSTICALLY LINED DUCT (SIZES SHOWN ARE NET INSIDE)
- BELLMOUTH
- CONCENTRIC SQUARE TO ROUND
- CONCENTRIC TRANSITION, RECTANGULAR OR ROUND
- ECCENTRIC TRANSITION, RECTANGULAR OR ROUND
- FLEXIBLE CONNECTION
- NON-SYMMETRICAL WYE
- RECTANGULAR DUCT DROP
- RECTANGULAR DUCT RISER
- RECTANGULAR MAIN WITH RECTANGULAR BRANCH
- RECTANGULAR MAIN WITH ROUND BRANCH
- RECTANGULAR OFFSET LESS THAN 15%%d
- RECTANGULAR OFFSET MORE THAN 15%%d
- ROUND DUCT DROP
- ROUND DUCT RISER
- ROUND DUCT WITH ROUND BRANCH
- ROUND WYE
- SYMMETRICAL WYE
- MITERED ELBOW WITH TURNING VANES
- RADIUSED ELBOW

General

- LIMIT OF DEMOLITION
- DEMOLISH
- EXISTING WORK
- NEW WORK
- RECTANGULAR DUCT SIZING (30X16)
- ROUND DUCT SIZING (30"Ø)

Piping Fittings, Appurtenances and Equipment

- AIR SEPARATOR
- AUTOMATIC AIR VENT
- BACKFLOW PREVENTER
- CAP
- CONTINUATION
- EXPANSION JOINT
- EXPANSION LOOP
- EXPANSION TANK
- FLOW SWITCH
- HEAT EXCHANGER
- HOSE BIBB
- MANUAL AIR VENT
- PIPE BELOW GRADE
- PIPE DROP
- PIPE REMOVED IN DEMOLITION
- PIPE RISE
- PIPE TO DRAIN
- PRESSURE GAUGE WITH COCK
- PRESSURE RELIEF VALVE
- PRESSURE SENSOR
- PUMP
- SHOCK ABSORBER
- T&P RELIEF VALVE WITH PIPE TO DRAIN
- TEE DOWN ON PIPE
- TEE UP ON PIPE
- TEMPERATURE SENSOR
- TEST PORT (PETE'S PLUG OR EQUAL)
- THERMOMETER
- VENT TO ATMOSPHERE
- WATER METER

Piping Systems

- CHWR — CHILLED WATER RETURN
- CHWS — CHILLED WATER SUPPLY
- CWR — CONDENSER WATER RETURN
- CWS — CONDENSER WATER SUPPLY
- HWR — HEATING WATER RETURN
- HWS — HEATING WATER SUPPLY
- RL — REFRIGERANT LIQUID
- RS — REFRIGERANT SUCTION

Piping Valves

- BALANCING VALVE
- CHECK VALVE
- CONTROL VALVE
- GATE VALVE
- GLOBE VALVE
- PRESSURE REDUCING VALVE
- QUARTER TURN VALVE
- VALVE, GENERAL

GENERAL MECHANICAL NOTES

A. ALL WORK TO COMPLY WITH 2022 CALIFORNIA MECHANICAL CODE.

B. PROVIDE MISCELLANEOUS METALS AND MATERIALS FOR A COMPLETE INSTALLATION (IE. SUPPORT, BRACING, ETC.)

C. PROVIDE EQUIPMENT SUBMITTAL FOR REVIEW, IN ACCORDANCE WITH THE SPECIFICATIONS. DO NOT DELIVER TO THE JOB SITE ANY PRODUCTS WITHOUT PRIOR REVIEW BY THE ARCHITECT. SUBMIT ALL REQUIRED SUBMITTALS AT ONE TIME. AT CONTRACTOR'S OPTION, 3 SEPARATE SUBMITTALS MAY BE SUBMITTED, CONSISTING OF: UNDERGROUND WORK, BUILDING WORK, AND BUILDING AUTOMATION SYSTEM – DEVIATIONS WILL BE RETURNED WITHOUT REVIEW. INCOMPLETE SUBMITTALS WILL BE RETURNED WITHOUT REVIEW. ENGINEER WILL PROVIDE MAXIMUM OF TWO REVIEWS OF SUBMITTAL PACKAGE. ARRANGE FOR ADDITIONAL REVIEWS AND/OR EARLY REVIEW OF LONG-LEAD ITEMS AND BEAR COSTS OF THESE ADDITIONAL REVIEWS AT ENGINEER'S STANDARD HOURLY RATES. SUBSTITUTION REQUESTS WILL NOT BE REVIEWED AFTER AWARD OF CONTRACT.

D. PROVIDE SMOKE DETECTORS IN MAIN SUPPLY AIR DUCT OF ANY SUPPLY AIR SYSTEM WITH AIR QUANTITY OF MORE THAN 2000 CFM OR OF SUPPLY AIR SYSTEMS WHERE THE COMBINED SUPPLY AIR QUANTITY OF SUPPLY AIR SYSTEMS SUPPLYING AIR INTO ONE ZONE EXCEED 2000 CFM, OR FOR SYSTEMS SHARING A COMMON RETURN AIR PLENUM/DUCT WHERE THE COMBINED SUPPLY AIR QUANTITY OF SUPPLY AIR SYSTEMS EXCEED 2000 CFM. DETECTORS MUST BE COMPATIBLE WITH THE BUILDING FIRE ALARM SYSTEM. DUCT SMOKE DETECTORS TO BE FURNISHED BY DIVISION 28 OR 26 AND INSTALLED BY DIVISION 23.

E. PRIOR TO SUBMISSION OF BID, REVIEW A COMPLETE SET OF CONSTRUCTION DOCUMENTS (INCLUDING ALL OTHER TRADES). INCLUDE ADDITIONAL PIPE OR DUCT OFF-SETS THAT MAY BE REQUIRED TO CLEAR STRUCTURE, FINISHES OR WORK OF OTHER TRADES. FIELD VERIFY EXACT LOCATION AND SIZES OF EXISTING UTILITIES, THE PROPOSED POINT OF CONNECTIONS TO EXISTING SYSTEMS, AND NEW ROUTINGS. EXTRA PAYMENT WILL NOT BE ALLOWED FOR WORK RESULTING FROM LACK OF APPRAISAL OF ENTIRE SCOPE OF WORK PRIOR TO BID. SYSTEM LAYOUTS AS INDICATED ON DRAWINGS ARE GENERALLY DIAGRAMMATIC BUT SHALL BE FOLLOWED AS CLOSELY AS ACTUAL CONSTRUCTION WILL PERMIT.

F. PROVIDE DUCT ACCESS DOORS FOR EQUIPMENT AND DEVICES REQUIRING ACCESS OR RESETTING (IE. FIRE AND SMOKE DAMPERS, SMOKE DAMPERS, SENSORS, ETC.) INDICATE SIZE AND LOCATION ON COORDINATED SHOP DRAWINGS.

G. FLASH AND COUNTER FLASH ALL ROOF PENETRATIONS TO SEAL WEATHER TIGHT (SEE ARCHITECTURAL ROOFING DETAILS AND SPECIFICATIONS).

H. INSTALL EQUIPMENT AND CURBS LEVEL. PROVIDE DUNNAGE, MISCELLANEOUS METALS, AND/OR PRESSURE TREATED LUMBER, AS REQUIRED TO INSTALL EQUIPMENT AND CURBS LEVEL.

I. PROVIDE DUCTWORK AND TRANSITIONS EQUAL TO DUCT FREE AREA SHOWN ON DRAWINGS, TO PREVENT A SPATIAL CONFLICT. AT CONTRACTOR'S OPTION AND IF SPATIAL CONSTRAINTS ALLOW IT, ROUND SPIRAL DUCTWORK, OF EQUAL CROSS-SECTIONAL AREA OR LARGER, MAY BE USED IN LIEU OF RECTANGULAR DUCTWORK WHERE SHOWN ON PLANS.

J. PROVIDE FIELD INSTALLED OR MANUFACTURER'S REFRIGERANT LINE SETS BETWEEN THE SPLIT SYSTEMS' INDOOR AND OUTDOOR COMPONENTS. SIZING, QUANTITY, AND INSTALLATION OF PIPES SHALL BE PER MANUFACTURER'S RECOMMENDATIONS BASED ON ACTUAL FIELD INSTALLED LENGTH. PROVIDE HARD WIRED THERMOSTATS AND CONTROL WIRING IN CONDUIT BETWEEN INDOOR AND OUTDOOR UNITS.

K. EQUIPMENT, HVAC DUCTS, PIPING AND OTHER DEVICES AND MATERIALS INSTALLED OUTDOORS OR EXPOSED TO WEATHER SHALL BE WEATHER-PROOF.

L. USE FLEXIBLE DUCTS ONLY FOR THE LAST 5 FEET MAXIMUM AT AIR OUTLETS. PER 2019 CMC-603.4.1, EXCEPT AT AIR OUTLETS DO NOT USE FLEXIBLE DUCTWORK IN LIEU OF ELBOWS OR FITTINGS.

M. PROVIDE MANUAL VOLUME DAMPERS AT EACH GRILLE, REGISTER, AND DIFFUSER, AND LOCATE EQUIDISTANCE BETWEEN BRANCH TAKEOFF AND AIR INLET/OUTLET. DO NOT USE VOLUME DAMPERS INTEGRAL WITH GRILLES, DIFFUSERS AND REGISTERS FOR AIR BALANCING.

N. INSTALL EQUIPMENT WITH SUFFICIENT ACCESS TO PANELS, ELECTRICAL CONNECTIONS, CONTROLS, FILTERS, MOTORS, ETC. COORDINATE ACCESS TO ALL DAMPERS, VALVES, AND OTHER SERVICEABLE EQUIPMENT. REVIEW CEILING HEIGHTS AND COORDINATE ACCESS PANEL LOCATIONS.

O. COORDINATE EQUIPMENT PLATFORMS, AND CUTTING AND PATCHING. OBTAIN WRITTEN PERMISSION FROM THE ARCHITECT PRIOR TO ANY STRUCTURAL MODIFICATIONS, CUTTING OR PATCHING WORK. KEEP SAW CUTTING TO A MINIMUM.

P. VERIFY DIFFUSERS, GRILLES, AND REGISTER MOUNTING FRAME TYPES WITH CONSTRUCTION TYPE AND CONFIGURATION.

Q. PAINT FLAT BLACK ALL VISIBLE INTERIOR PORTIONS OF DUCTWORK.

R. PROTECT AND ISOLATE DUCTS STORED ON CONSTRUCTION SITE FROM DUST CONTAMINATION.

S. COORDINATE LOCATION OF SENSORS AND THERMOSTATS WITH ARCHITECT. COMPLY WITH ADA REQUIREMENTS.

T. "DEMOLISH" OR "REMOVE" MEAN: REMOVE AND RETURN TO OWNER FOR ACCEPTANCE, AND DISPOSE OF ANY ITEMS NOT ACCEPTED BY THE OWNER.

U. PROVIDE REMOTE DAMPER OPERATORS AS MANUFACTURED BY YOUNG REGULATOR COMPANY, MODEL 315 AND 270-275, OR EQUAL, FOR DAMPERS ABOVE INACCESSIBLE CEILINGS (SUCH AS GYPBOARD).

V. AFTER COMPLETION OF WORK, PERFORM DUCT LEAKAGE TESTS AND AIR BALANCE PERFORMANCE TESTS IN ACCORDANCE WITH AN APPROVED METHOD PER CMC 314.1. REFERENCE SPECIFICATION 230593 - TESTING, ADJUSTING, AND BALANCING FOR HVAC, FOR ADDITIONAL INFORMATION.

W. COORDINATE WITH DIVISION 26 FOR LOCATION OF POWER AND LOCAL DISCONNECTS FOR MECHANICAL EQUIPMENT DEVICES. PROVIDE STARTERS FOR EQUIPMENT WITHOUT VFD'S, ECM MOTORS, OR EQUIPMENT WITHOUT INTEGRAL STARTERS.

X. MAINTAIN MINIMUM ELECTRICAL CODE AND UNIT MANUFACTURER'S CLEARANCES TO ADJACENT CONSTRUCTION OR EQUIPMENT, PER CEC OR THE FOLLOWING TABLE:

	0-150 VOLT	150-600
NO LIVE OR GROUNDED PARTS ON OPPOSITE SIDE	36 INCH	36 INCH
GROUNDED PARTS ON OPPOSITE SIDE	36 INCH	42 INCH
LIVE PARTS ON OPPOSITE SIDE	36 INCH	48 INCH

SHEET INDEX

M001	SYMBOL LIST AND GENERAL NOTES - MECHANICAL
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M004	TITLE 24 - MECHANICAL
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M200	FIRST FLOOR PLAN - MECHANICAL
M201	ROOF PLAN - MECHANICAL
M500	DETAILS - MECHANICAL

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REGISTERED PROFESSIONAL ENGINEER
EUGENE DE SOUZA
No. M34451
Exp: 06/30/27
MECHANICAL
STATE OF CALIFORNIA

Sheet Name:

SYMBOL LIST AND GENERAL NOTES - MECHANICAL

Project No.: 24.05

Drawn By: HWK

Checked By: EDS

Scale: 12" = 1'-0"

Sheet No.: M001

10/13/2025 9:30:33 AM

TERMINAL UNIT SCHEDULE

SYMBOL	LOCATION	AREA SERVED	BASIS OF DESIGN MFR	BASIS OF DESIGN MODEL	INLET SIZE	COOLING AIR FLOW MAX CFM	COOLING AIR FLOW MIN CFM	SERIES/PARALLEL	FAN CFM	FAN ESP	FAN MHP	MIN. INLET SP (IN H2O)	DN STREAM SP (IN H2O)	MAX TU SP (IN H2O)	ELECTRIC RESISTANCE HEAT MAX HTG CFM	EAT (°F)	LAT (°F)	HTG (KW)	STAGES	ELECTRICAL VOLTS	ELECTRICAL PH	CONTROLS REF	NOTES
VAV-1	CHECK OUT	ADULT STACKS	TITUS	DTFS	0' - 10"	945	330	SERIES	945	0.3	0.25	0.35	0.30	0.00	945	65	90	8	2	208	3	230933	
VAV-2	CHECK OUT	ADULT STACKS	TITUS	DTFS	1' - 0"	1375	550	SERIES	1375	0.3	0.33	0.35	0.30	0.00	1375	65	90	11	3	208	3	230933	
VAV-3	CHECK OUT	ADULT STACKS	TITUS	DTFS	0' - 10"	940	330	SERIES	940	0.3	0.25	0.35	0.30	0.00	940	65	90	8	3	208	3	230933	
VAV-4	CHECK OUT	CHECK OUT	TITUS	DTFS	0' - 8"	430	105	SERIES	430	0.3	0.25	0.35	0.30	0.00	430	65	90	4	2	208	3	230933	
VAV-5	LOBBY	LOBBY	TITUS	DTFS	0' - 8"	700	350	SERIES	700	0.3	0.25	0.35	0.30	0.00	700	65	90	6	2	208	3	230933	
VAV-6	LOBBY	MULTIPURPOSE	TITUS	DTFS	1' - 0"	1485	740	SERIES	1485	0.3	0.33	0.35	0.30	0.00	1485	65	90	12	3	208	3	230933	
VAV-7	CHECK OUT	CHILDREN'S	TITUS	DTFS	0' - 8"	695	340	SERIES	695	0.3	0.25	0.35	0.30	0.00	695	65	90	6	2	208	3	230933	
VAV-8	CHECK OUT	CHILDREN'S	TITUS	DTFS	0' - 10"	1100	360	SERIES	1100	0.3	0.25	0.35	0.30	0.00	1100	65	90	9	3	208	3	230933	
VAV-9	CHILDREN	OFFICE	TITUS	DTFS	0' - 6"	300	75	SERIES	300	0.3	0.167	0.35	0.30	0.00	300	65	90	2.5	1	208	3	230933	
VAV-10	STAFF	STAFF	TITUS	DTFS	0' - 10"	930	380	SERIES	930	0.3	0.25	0.35	0.30	0.00	930	65	90	8	2	208	3	230933	
VAV-11	PANTRY	PANTRY	TITUS	DTFS	0' - 6"	305	75	SERIES	305	0.3	0.167	0.35	0.30	0.00	305	65	90	2.5	1	208	3	230933	

ROOFTOP PACKAGED AIR CONDITIONING UNIT SCHEDULE

SYMBOL	LOCATION	AREA SERVED	BASIS OF DESIGN MFR	BASIS OF DESIGN MODEL	SPEC. SECTION REF.	SUPPLY FAN TOTAL CFM	SUPPLY FAN MIN OSA CFM	SUPPLY FAN TSP (IN H20)	SUPPLY FAN ESP (IN H2O)	SUPPLY FAN FAN TYPE	SUPPLY FAN # OF FANS	SUPPLY FAN BHP	SUPPLY FAN HP	SUPPLY FAN MAX. FRPM	SUPPLY FAN MOTOR CONTROL	DX COOLING COIL TOTAL CAP (MBH)	DX COOLING COIL SENS CAP (MBH)	DX COOLING COIL EDB (°F)	DX COOLING COIL EWB (°F)	DX COOLING COIL LDB (°F)	DX COOLING COIL LWB (°F)	REFRIGERANT TYPE	AIR SOURCE CONDENSER NOM TONS	AIR SOURCE CONDENSER QTY OF COMPRESSORS	AIR SOURCE CONDENSER QTY OF FANS	AIR SOURCE CONDENSER AMBIENT DB (°F)	AIR SOURCE CONDENSER EER OR SEER	FINAL FILTER EFF MERV	FINAL FILTER DEPTH (IN.)	ELECTRICAL VOLTS	ELECTRICAL PH	ELECTRICAL MCA	ELECTRICAL MOCP	ELECTRICAL MIN. SCCR (KAIC)	SMOKE DETECTOR (Y/N)	CONTROLS REF	INSTALLATION REF.	APPROX DIMENSIONS (LxWxH)	MAX WT (LBS)	COMMENTS
RTU-1	ROOF	LEVEL 1	CARRIER	50K3A	237400	9000	3465	1.8	1	PLENUM	1	4.24	5	1200	VFD	312.9	226.5	78.7	65.7	55.4	54.2	R-454B	25	2	2	85	10.5 EER	13	4"	208	3	146.0	175	10kA	Y	230933	1/M500	13'10"x7'10"x67"	4187	ALL

NOTES:
1. PROVIDE DIFFERENTIAL ENTHALPY AIRSIDE ECONOMIZER WITH BAROMETRIC RELIEF.
2. PROVIDE WITH ROOF CURB.
3. PROVIDE WITH PROGRAMMABLE WALL MOUNTED CONTROLLER. COORDINATE EXACT LOCATION WITH OWNER.
4. UNIT SHALL SHUT DOWN WHEN SMOKE DETECTOR DETECTS SMOKE. REFERENCE SEQUENCE OF OPERATIONS IN SPECIFICATION 230933 - ELECTRIC AND ELECTRONIC CONTROL SYSTEM FOR HVAC, FOR ADDITIONAL INFORMATION.

FAN SCHEDULE

SYMBOL	LOCATION	AREA SERVED	BASIS OF DESIGN MFR	BASIS OF DESIGN MODEL	TYPE	DRIVE	AIR FLOW (CFM)	TSP (IN H20)	MAX RPM	SOUNDS SONES	ELECTRICAL VOLTS	ELECTRICAL PH	ELECTRICAL BHP	ELECTRICAL MHP	EMERGENCY POWER	CONTROLS REF	MAX WT (LBS)	COMMENTS
EF-1	ROOF	RESTROOMS	GREENHECK	G-95-VG	DOWNBLAST	DIRECT	785	0.5	1650	9.6	115	1	0.14	0.167	NO	230933	43	ALL

NOTES:
1. PROVIDE WITH ROOF CURB.
2. PROVIDE WITH INTEGRAL BACKDRAFT DAMPER.

AIR TO AIR HEAT PUMP FAN COIL SCHEDULE

SYMBOL	LOCATION	SERVING	BASIS OF DESIGN MFR	BASIS OF DESIGN MODEL	NOM TONS	HEAT PUMP CONDENSING UNIT	REFRIGERANT TYPE	AIR FLOW (CFM)	FAN ESP (IN H2O)	COOLING TOTAL CAP (MBH)	COOLING SENS CAP (MBH)	COOLING ENT AIR (°F DB)	COOLING ENT AIR (°F WB)	COOLING EER	HEAT PUMP HEATING (MBH)	COP	ELECTRICAL VOLTS	ELECTRICAL PH	ELECTRICAL MCA	ELECTRICAL FLA	EMERGENCY POWER	CONTROLS REF	MAX WT (LBS)	COMMENTS
AC-1	ELEC RM	ELEC RM	MITSUBISHI	PKA-A18	1.5	HP-1	R-32	375	0	16.3	12.0	75	61	10.7	18.5	2.45	208	1	1.0	0.2	NO	230933	30	ALL

NOTES:
1. INDOOR UNIT POWERED VIA OUTDOOR UNIT.
2. PROVIDE WITH WALL MOUNTED THERMOSTAT.
3. PROVIDE WITH CONDENSATE PUMP.

CONDENSING UNIT SCHEDULE

SYMBOL	LOCATION	AREA SERVED	BASIS OF DESIGN MFR	BASIS OF DESIGN MODEL	RELATED FAN	AIR SOURCE CONDENSER NOM TONS	AIR SOURCE CONDENSER QTY OF COMPRESSORS	AIR SOURCE CONDENSER COMP TYPE	AIR SOURCE CONDENSER CAP (MBH)	AIR SOURCE CONDENSER AMB TEMP (°F)	AIR SOURCE CONDENSER MIN EFF	ELECTRICAL VOLTS	ELECTRICAL PH	ELECTRICAL MCA	ELECTRICAL MOCP	ELECTRICAL MIN. SCCR (KAIC)	CONTROLS REF	APPROX DIMS (LxWxH)	MAX WT (LBS)	COMMENTS
HP-1	ROOF	ELEC RM	MITSUBISHI	PUZ-A18	AC-1	1.5	1	INVERTER	18.0	85	10.7	208	1	11.0	28		230933	32"x15"x24"	100	

DIFFUSER, REGISTER AND GRILLE SCHEDULE

SYMBOL	TYPE	FACE	FRAME	DIMENSIONS	BASIS OF DESIGN	COMMENTS
CEG-1	CEILING EXHAUST GRILLE	PERFORATED	CEILING LAY-IN	24"x24"	TITUS PAR	1-3
CRG-1	CEILING RETURN GRILLE	PERFORATED	CEILING LAY-IN	24"x24"	TITUS PAR	1-3
CD-1	CEILING SUPPLY DIFFUSER	SQUARE PLAQUE	CEILING LAY-IN	24"x24"	TITUS OMNI	1-3
ER-1	EXHAUST WALL GRILLE	LOUVERED	WALL	6"x6"	TITUS 350RL	1-3
RD-2	LINEAR SLOT DIFFUSER	SLOT	CEILING	6'-0"	TITUS FL-10, 1 SLOT	1-3
SD-1	LINEAR SLOT DIFFUSER	SLOT	CEILING	4'-0"	TITUS FL-10, 1 SLOT	1-3
SD-2	LINEAR SLOT DIFFUSER	SLOT	CEILING	6'-0"	TITUS FL-10, 1 SLOT	1-3
SG-1	SUPPLY WALL GRILLE	LOUVERED	WALL	6"x6"	TITUS 300RS	1-3

NOTES:
1. COORDINATE CEILING BORDER TYPE, COLORS, AND FINISHES OF DIFFUSERS, REGISTERS, AND GRILLES WITH ARCHITECT.
2. NOISE LEVEL FROM INDIVIDUAL DIFFUSER, REGISTER, OR GRILLE SHALL BE NO GREATER THAN 5 NC BELOW ROOM NOISE CRITERIA.
3. PROVIDE DUCT TO NECK TRANSITION AS NECESSARY.

OCCPANCY CATEGORY	
2022 CALIFORNIA MECHANICAL CODE	2022 CLASSIFORNIA TITLE 24
PUBLIC ASSEMBLY SPACES - Libraries	Public Assembly Spaces - Libraries (reading rooms and stack areas)
OFFICE BUILDINGS - Office space, h	Office Buildings - Office space
PUBLIC ASSEMBLY SPACES - Libraries	Public Assembly Spaces - Libraries (reading rooms and stack areas)
GENERAL - Corridors, h	General - Corridors
OFFICE BUILDINGS - Office space, h	Office Buildings - Office space
OFFICE BUILDINGS - Office space, h	Office Buildings - Office space
OFFICE BUILDINGS - Office space, h	Office Buildings - Office space
OFFICE BUILDINGS - Office space, h	Office Buildings - Office space
OFFICE BUILDINGS - Main entry lobbies, h	Office Buildings - Main entry lobbies
GENERAL - Occupiable storage rooms for liquids or gels, b	General - Occupiable storage rooms for liquids or gels
HOTELS, MOTELS, RESORTS, DORMITORIES - Multipurpose assembly, h	Hotels, Motels, Resorts, Dormitories - Multipurpose assembly
RETAIL - Sales (except as below)	Retail - Sales (except as below)

OUTSIDE AIR VENTILATION SCHEDULE - CALIFORNIA MECHANICAL AND ENERGY CODE

EQUIPMENT TAG	ROOM	Az FLOOR AREA (SF)	ASHRAE 62.1 OCCUPANT DENSITY DEFAULT (PEOPLE / 1000 SF)	ASHRAE 62.1 NUMBER OF OCCUPANT (# PEOPLE)	Pz ACTUAL NUMBER OF OCCUPANTS (# PEOPLE)	2022 CALIFORNIA MECHANICAL CODE Rp PEOPLE OUTDOOR AIR RATE (CFM/ PERSON)	Ra AREA OUTDOOR RATE (CFM/SF)	Vbz OUTDOOR AIR REQUIRED (CFM)	Ez VENTILATION EFFECTIVENESS NUMBER	Voz CORRECTED OUTDOOR AIR REQUIRED (CFM)	2022 CALIFORNIA ENERGY CODE (PEOPLE) Rp PEOPLE OUTDOOR AIR RATE (CFM/PERSON)	2022 CALIFORNIA ENERGY CODE (PEOPLE) Voz OUTDOOR AIR REQUIRED (CFM)	2022 CALIFORNIA ENERGY CODE (AREA) Ra AREA OUTDOOR RATE (CFM/SF)	2022 CALIFORNIA ENERGY CODE (AREA) Voz OUTDOOR AIR REQUIRED (CFM)	Voz, max OUTDOOR AIR REQUIRED (CFM)	DESIGN OUTDOOR AIR (CFM)
RTU-1	01 - ADULT STACKS	5347	10	53	53	5	0.12	909	0.8	1136	15	802	0.15	802	1136	1137
RTU-1	02 - CHECK OUT DESK	1176	5	6	6	5	0.06	100	0.8	125	15	88	0.15	176	176	176
RTU-1	03 - CHILDREN'S STACKS	3155	10	32	32	5	0.12	539	0.8	673	15	480	0.15	473	673	673
RTU-1	14 - CORRIDOR	165	0	0	0	0	0.06	10	0.8	12	15	0	0.15	25	25	25
RTU-1	13 - OFFICE	120	5	1	1	5	0.06	12	0.8	15	15	15	0.15	18	18	18
RTU-1	18 - STAFF	1158	5	6	16	5	0.06	149	0.8	187	15	240	0.15	174	240	240
RTU-1	15 - STAFF LOUNGE	243	5	1	1	5	0.06	20	0.8	24	15	15	0.15	36	36	36
RTU-1	22 - OFFICE	82	5	0	1	5	0.06	10	0.8	12	15	15	0.15	12	15	15
RTU-1	21 - LOBBY	758	10	8	8	5	0.06	85	0.8	107	15	120	0.5	379	379	379
RTU-1	22 - STORAGE	113	2	0	0	5	0.12	14	0.8	17	15	0	0.15	17	17	17
RTU-1	23 - MULTI-PURPOSE ROOM	945	120	113	47	5	0.06	292	0.8	365	15	705	0.5	473	705	705
RTU-1	24 - BOOKSTORE	142	15	2	2	7.5	0.12	32	0.8	40	15	30	0.25	36	40	40
														SYSTEM TOTALS (CFM):		**3461**	**3462**

GOLETA LIBRARY

CITY OF GOLETA

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Goleta, CA 93117

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ISSUED FOR BID 13 OCT 2025

Key Plan:

Seal & Signature:

REGISTERED PROFESSIONAL ENGINEER
EUGENE DE SOUZA
No. M34451
Exp: 06/30/27
MECHANICAL
STATE OF CALIFORNIA

Sheet Name:
SCHEDULES - MECHANICAL

Project No.: 24.05
Drawn By: HWK
Checked By: EDS
Scale:

Sheet No.: M002

10/13/2025 9:30:37 AM

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, or 141.0(b)2 for alterations.	
Project Name: Goleta Valley Library	**Report Page:** (Page 1 of 11)
Project Address:	**Date Prepared:** 2025-03-20T12:40:51-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Goleta	04	Total Conditioned Floor Area	13500
02	Climate Zone	6	05	Total Unconditioned Floor Area	150
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1

● Library ● Office

B. PROJECT SCOPE

This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, 170.2(b) or 141.0(b)2 and 180.2(b)2 for alterations.

01 Air System(s)	02 Wet System Components	03 Dry System Components
☒ Heating Air System	☐ Water Economizer	☒ Air Economizer
☒ Cooling Air System	☐ Pumps	☐ Electric Resistance Heat
Mechanical Controls	☐ System Piping	☒ Fan Systems
☒ Mechanical Controls (existing to remain, altered or new)	☐ Cooling Towers	☒ Ductwork (existing to remain, altered or new)
	☐ Chillers	☒ Ventilation
	☐ Boilers	☒ Zonal Systems/ Terminal Boxes

STATE OF CALIFORNIA
Mechanical Systems
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C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

01		02		03		04		05		06		07		08	09
System Summary 110.1, 110.2, 140.4, 170.2(c)	AND	Pumps 140.4(k), 170.2(c)4ii	AND	Fans/ Economizers 140.4(c), 140.4(e), 170.2(c)	AND	System Controls 110.2, 120.2, 140.4(f), 170.2(c)	AND	Ventilation 120.1, 160.2	AND	Terminal Box Controls 140.4(d), 170.2(c)4B	AND	Distribution 120.3, 140.4(l), 160.2, 160.3	AND	Cooling Towers 110.2(e)2	Compliance Results
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)	
Yes	AND		AND	Yes	AND	Yes	AND	Yes	AND	Yes	AND	Yes	AND		COMPLIES with Exceptional Conditions
Mandatory Measures Compliance (See Table Q 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.

The permit applicant has indicated on Table J that ventilation calculations have been attached or included elsewhere on the plans.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

01 System Name	02 Quantity	03 System Serving	04 System Status	05 Space Type	06 Utilizing Recovered Heat
RTU-1	1	Multi-zone			☐

STATE OF CALIFORNIA
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F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

01 System Name	02 Quantity	03 System Serving	04 System Status	05 Space Type	06 Utilizing Recovered Heat
AC-1	1	Single zone	New/ Addition	All Other Occupancies	☐

Dry System Equipment Sizing (Includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)

01	02	03	04	05	06	07	08	09	10	11
				Equipment Sizing per Mechanical Schedule (kBtu/h) 140.4(a&b), 170.2(c)1 & 170.2(c)2						
				Heating Output[2,3]			Cooling Output[2,3]		Load Calculations[3,4]	
Name or Item Tag	Equipment Category per Tables 110.2, 140.4(a)2 and 170.2(c)3aii	Equipment Type per Tables 110.2 and Title 20	Smallest Size Available[1] 140.4(a) and 170.2(c)1	Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
RTU-1	Unitary AC/ Cond. (no elec. resistance)	AC, air-cooled pkg (3 phase)	Yes				226.5	259.1		210.9
AC-1	Unitary Heat Pumps	Air-cooled, split (1phase)	Yes	18.5	18.5	0	12	18	8	15

[1] *FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per 140.4(a) and 170.2(c)1. Healthcare facilities are excepted.*
[2] *It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.*
[3] *If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.*
[4] *Authority Having Jurisdiction may ask for load calculations used for compliance per 140.4(b) and 170.2(c).*

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F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps)

01	02	03	04	05	06	07	08	09
		Heating Mode				Cooling Mode		
Name or Item Tag	Size Category (Btu/h)	Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
RTU-1	>=240,000 and <760,000					EER IEER	9.8 13	10.5 16
AC-1	<65,000		HSPF2	7.5	8	SEER2	14.3	19.8

G. PUMPS

This section does not apply to this project.

STATE OF CALIFORNIA
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CALIFORNIA ENERGY COMMISSION

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H. FAN SYSTEMS & AIR ECONOMIZERS

This table is used to demonstrate compliance with prescriptive requirements found in 140.4(c), 140.4(e), 140.4(m), 170.2(c)3, and 170.2(c)4A for fan systems. Fan systems serving only process loads are exempt from these requirements and do not need to be included in Table H.

System Name	RTU-1	Quantity	1	Fan System Status	New	System Zoning	Multi-zone VAV systems	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	9,000	Site Elevation	10	Economizer	Differential Enthalpy
01	02	03	04			05		06	07	08	09			10	11
									Allowance		Design				
Fan Name or Item Tag	Fan Type	Qty	Component		Airflow through Component (%)	Water Gauge (w.g)			Component Allowance (watt/cfm)	Fan Allowance (watt/cfm)[3]	Design Electrical Input Power Method		Motor Nameplate Horsepower		Fan Electrical Input Power (kW)
RTU-1	Supply	2	Hydronic/DX cooling coil or heat pump coil		100				0.114	0.204	Manufacturer provided				3.13
			Economizer Return Damper		100				0.038						
			Electric heat		100				0.038						
			MERV 13-16 Filter upstream of thermal conditioning equipment		100				0.114						
			System feeds a terminal unit with a fan with electrical input power < 1kW		100				-0.1						
Supply Fan Base Allowance (watt/cfm)		0.453	Exhaust/Return/Relief/Transfer Fan Base Allowance(watt/cfm)		0				Fan System Allowance (kW)[3]		7.74		Fan System Electrical Input Power (kW)		6.26

[1] *FOOTNOTES: Fans serving spaces with design background noise goals below NC35*
[2] *Low-turndown single-zone VAV fan system must be capable of and configured to reduce airflow to 50 percent of design airflow and use no more than 30 percent of the design wattage at that airflow. No more than 10 percent of the design load served by the equipment shall have fixed loads.*
[3] *Fan system allowance includes fan system base allowance.*
[4] *Filter pressure loss can only be counted once per fan system.*

STATE OF CALIFORNIA
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H. FAN SYSTEMS & AIR ECONOMIZERS

[5] *Complex Fan System means a fan system that combines a single cabinet fan system with other supply fans, exhaust fans, or both.*
[4] *Computer room economizers must meet requirements of 140.9(a) and will be documented on the NRCC-PRC-E document..*

Fan Energy Index (FEI)

01	02	03
Name or Item Tag	FEI Exception	FEI
RTU-1	Variable Air Volume Fan System	1.08

I. SYSTEM CONTROLS

This table is used to demonstrate compliance with mandatory controls in 110.2 and 120.2 and prescriptive controls in 140.4(f) and (n), 170.2(c)4D 170.2(c)4L or requirements in 141.0(b)2E 180.2(b)2 for altered space conditioning systems.

01	02	03	04	05	06	07	08	09	10
System Name	System Zoning	Conditioned Floor Area Being Served (ft^2)	Thermostats 110.2(b) & (c)[1], 120.2(a) 160.3(a)2A or 141.0(b)2E & 180.2(b)2	Shut-Off Controls 120.2(e) & 160.3(a)2D	Isolation Zone Controls 120.2(g) & 160.3(a)2F	Demand Response 110.12 120.2(b) & 160.3(a)2B	Supply Air Temp. Reset 140.4(f) & 170.2(c)4D	Window Interlocks per 140.4(n) & 170.2(c)4D	Direct Digital Control (DDC) per 120.2
RTU-1	Multi-zone w/ DDC to zone	<= 25,000 ft^2	EMCS	EMCS	NA: Serves < 25k ft^2	EMCS	Included	NA: No operable windows	Provided
AC-1/HP-1	Single zone	<= 25,000 ft^2	Setback	NA: 7 day per 120.2(e)1	NA: Serves < 25k ft^2	NA: Serves temp. sensitive process	NA: Single Zone	NA: No operable windows	NA: Single Zone

[1] *FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.*

STATE OF CALIFORNIA
Mechanical Systems
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
Project Name: Goleta Valley Library	**Report Page:** (Page 7 of 11)
	Date Prepared: 2025-03-20T12:40:51-04:00

J. VENTILATION AND INDOOR AIR QUALITY

This table is used to demonstrate compliance with mandatory ventilation requirements in 120.1 120.2(e)3B 140.4(p) and 140.4(q) for all nonresidential and hotel/motel and d:\t24refnolink/1160.2, 160.3(a)3D, 170.2(a)4N, 170.2(a)4O for high-rise residential occupancies. For alterations, only ventilation systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflows may be shown on the plans or the calculations can be presented in a spreadsheet.

01	☒	Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table.
02	☐	Check this box if the project included Nonresidential, Hotel/Motel Spaces or Multifamily Common Use Spaces
	☐	
03	☐	Check the box if the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per 120.1(c)2.

K. TERMINAL BOX CONTROLS

This table is used to demonstrate compliance with prescriptive zone control requirements in 140.4(d) & 170.2(c)4B.

01	02	03	04	05	06	07	08	09	10	11	12
		Design			Deadband Compliance			Reheated, Recooled, Mixed Air Compliance			
Zone/System/VAV Box Name or Item Tag	Zonal Control Strategy per 140.4(d)	Peak Primary Airflow CFM	Primary Air in Deadband CFM	Reheated Recooled Mixed Airflow CFM	Outside Air CFM	30% of Peak Primary Airflow CFM	Max Deadband Airflow CFM	50% of Peak Primary Airflow	1st Stage Modulates <=95 °F and Maintains DB Rate?	2nd Stage Modulates from DB Flow to Heating Max Flow?	Complies
VAV-1	VAV with DDC @ zone	945	330	330	330		330	472.5	Yes	Yes	Yes
VAV-2	VAV with DDC @ zone	1375	550	550	550		550	687.5	Yes	Yes	Yes
VAV-3	VAV with DDC @ zone	940	330	330	330		330	470	Yes	Yes	Yes
VAV-4	VAV with DDC @ zone	430	105	105	176		176	215	Yes	Yes	Yes
VAV-5	VAV with DDC @ zone	700	350	350	350		350	350	Yes	Yes	Yes
VAV-6	VAV with DDC @ zone	1485	740	740	740		740	742.5	Yes	Yes	Yes
VAV-7	VAV with DDC @ zone	695	340	340	340		340	347.5	Yes	Yes	Yes
VAV-8	VAV with DDC @ zone	1100	360	360	360		360	550	Yes	Yes	Yes
VAV-9	VAV with DDC @ zone	300	75	75	123		123	150	Yes	Yes	Yes
VAV-10	VAV with DDC @ zone	930	380	380	380		380	465	Yes	Yes	Yes
VAV-11	VAV with DDC @ zone	305	75	75	125		125	152.5	Yes	Yes	Yes

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CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
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L. DISTRIBUTION (DUCTWORK and PIPING)

This table is used to show compliance with mandatory pipe insulation requirements found in 120.3 and mandatory requirements found in 120.4(g) for duct sealing.

01	☐	Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service. Insulation covering chilled water piping and refrigerant suction piping located outside the conditioned space shall have a Class I or Class II vapor retarder. All penetrations and joints of which shall be sealed.

Duct Leakage Testing

The answers to the questions below apply to the following duct systems:	RTU-1 Supply Ductwork	**NR/ Common Use:** Duct leakage testing shall not exceed 6% per NA7.5.3 required for these systems?	No
		Dwelling Units: Total duct leakage of duct system shall not exceed 12% or duct system to outside shall not exceed 6% per RA3.1.4 required for systems?	—
		Duct leakage testing per CMC Section 603.9.2 required for these systems?	Yes

11	No	The scope of the project includes only duct systems serving healthcare facilities
12	No	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.
13	No	The space conditioning system serves less than 5,000 ft^2 of conditioned floor area.
14	No	The combined surface area of the ducts is more than 25% of the total surface area of the entire duct system:
15	No	The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.
16	No	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.
17	Yes	All Ductwork and plenums with pressure class ratings shall be constructed to Seal Class A
18	No	All ductwork is an extension of an existing duct system
19	No	Ductwork serving individual dwelling unit
20		< 25 ft of new or replacement space conditioning ducts installed
21	R-6	Duct Insulation R-value
22	No	Ductwork Existing To Remain
23	No	Duct System Connected To Altered Space Conditioning System

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CERTIFICATE OF COMPLIANCE	NRCC-MCH-E
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	Date Prepared: 2025-03-20T12:40:51-04:00

M. COOLING TOWERS

This section does not apply to this project.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2022-building-energy-efficiency-4

Form/Title
NRCI-MCH-01-E - Must be submitted for all buildings

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2022-building-energy-efficiency-4

Form/Title	Systems/Spaces To Be Field Verified
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.	
NRCA-MCH-03-A - Constant Volume Single Zone HVAC NOTE: This form does not automatically move to "Yes'. If Constant Volume Single Zone HVAC Systems are included in the scope, permit applicant should move this form to "Yes".	AC-1/HP-1
NRCA-MCH-05-A - Air Economizer Controls	RTU-1
NRCA-MCH-07-A Supply Fan Variable Flow Controls	RTU-1
NRCA-MCH-11-A Automatic Demand Shed Controls	RTU-1
NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance	AC-1
NRCA-MCH-16-A Supply Air Temperature Reset Controls	RTU-1
NRCA-MCH-18-A Energy Management Control Systems	RTU-1

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Key Plan:

Seal & Signature:
REGISTERED PROFESSIONAL ENGINEER EUGENE DE SOUZA No. M34451 Exp: 06/30/27 MECHANICAL STATE OF CALIFORNIA

Sheet Name:
TITLE 24 - MECHANICAL

Project No.: 24.05
Drawn By: HWK
Checked By: EDS
Scale:

Sheet No.:
M003

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01		02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	No	Plan sheet or construction document location
03		**04**
Mandatory Measure		**Plan sheet or construction document location**
Heating Equipment Efficiency per 110.1		M002
Cooling Equipment Efficiency per 110.1		M002
Furnace Standby Loss Control per 110.2(d)		N/A
Duct Insulation per 120.4		Specification 230700
Heat Pump with Supplemental electric Resistance Heater Controls per 110.2(b)		M002
The air duct and plenum system is designed per 120.4(a)-(f)		233100
Kitchen range hoods shall be rated for sound in accordance with Section 7.2 of ASHRAE 62.2		N/A

STATE OF CALIFORNIA
Mechanical Systems CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: Goleta Valley Library	**Report Page:**	(Page 11 of 11)
Project Address:	**Date Prepared:**	2025-03-20T12:40:51-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Documentation Author Signature:
Hugh Kettler	
Company:	Signature Date:
Interface Engineering, Inc.	
Address:	CEA/ HERS Certification Identification (if applicable):
City/State/Zip:	Phone:

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:	Date Signed:
Address:	License:
City/State/Zip:	Phone:

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Generated Date/Time:
Report Version: 2022.0.000
Schema Version: rev 20220101
Documentation Software: Energy Code Ace
Compliance ID: 247921-0325-0004
Report Generated: 2025-03-20 09:40:57

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No. M34451
Exp: 06/30/27
MECHANICAL
STATE OF CALIFORNIA

Sheet Name:

TITLE 24 - MECHANICAL

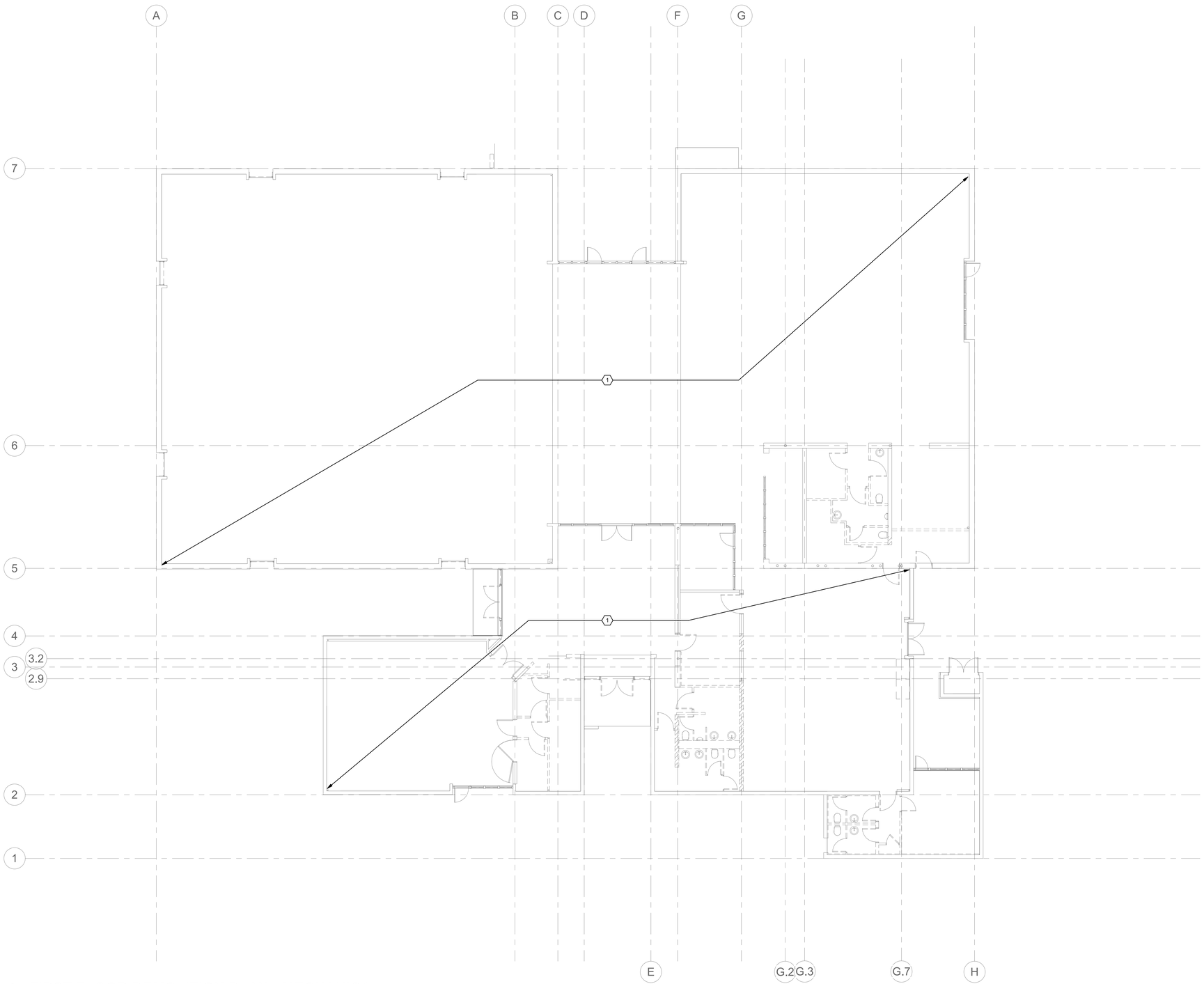
Project No.: 24.05
Drawn By: HWK
Checked By: EDS
Scale:

Sheet No.: M004

10/13/2025 9:30:37 AM

SHEET KEYNOTES

1. REMOVE EXISTING DUCTWORK, AIR DEVICES, MECHANICAL EQUIPMENT, AND ASSOCIATED HANGERS AND CONTROLS.



1 FIRST FLOOR DEMOLITION PLAN - MECHANICAL

0' 4' 8' 16'

1/8" = 1'-0"

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EUGENE DE SOUZA
No. M34451
Exp: 06/30/27
MECHANICAL
STATE OF CALIFORNIA

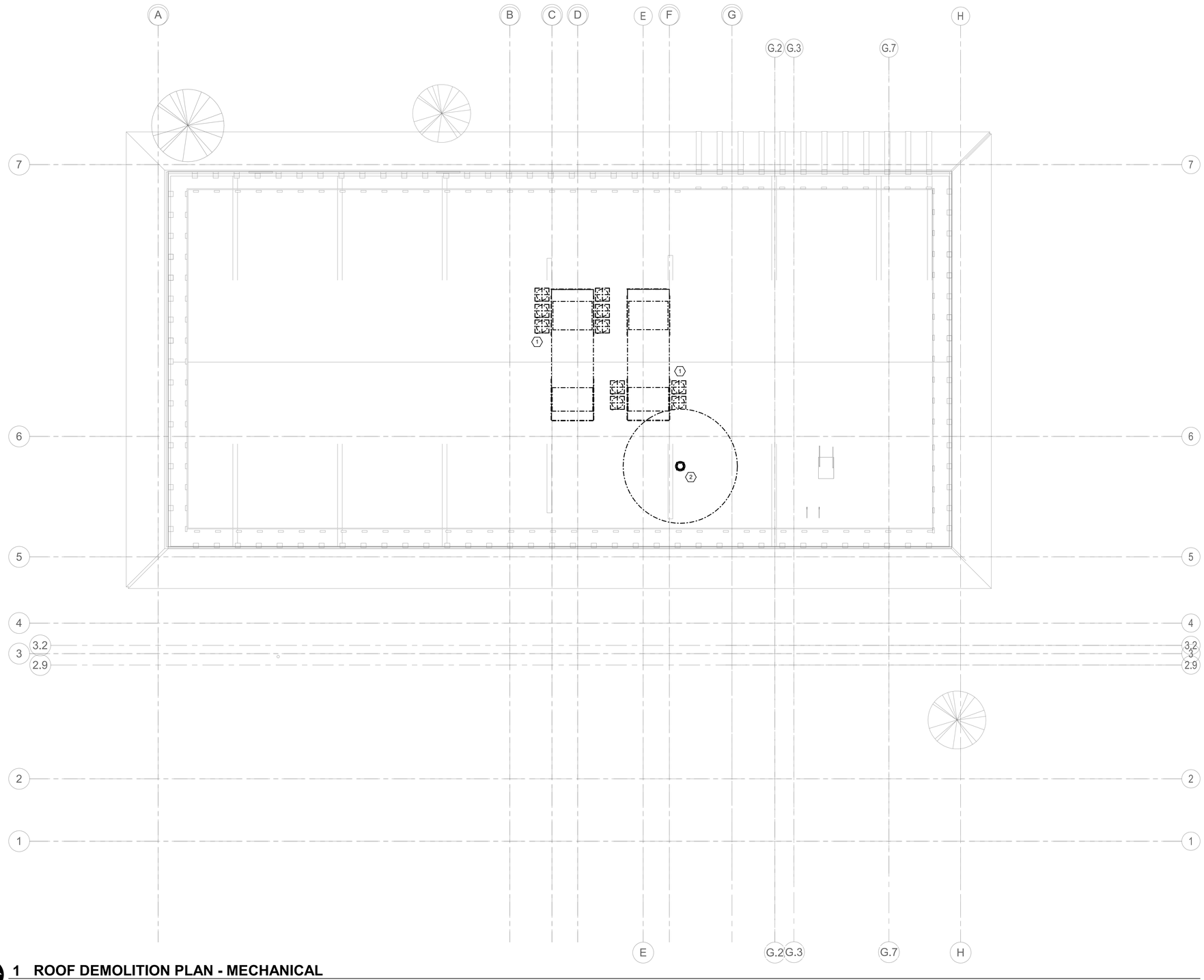
Sheet Name:

FIRST FLOOR DEMOLITION PLAN - MECHANICAL

Project No.:	Sheet No.:
24.05	MD200
Drawn By: HWK	
Checked By: EDS	
Scale: 1/8" = 1'-0"	

SHEET KEYNOTES

1. REMOVE EXISTING ROOFTOP AIR HANDLER AND ASSOCIATED CONDENSING UNITS. REMOVE EXISTING ROOF CURB AND PATCH ROOF OPENINGS AS REQUIRED. REMOVE ASSOCIATED WIRING AND CONTROLS.
2. REMOVE EXISTING ROOF EXHAUST FAN, ALONG WITH ASSOCIATED WIRING AND CONTROLS. PATCH ROOF OPENING AS REQUIRED.



1 ROOF DEMOLITION PLAN - MECHANICAL

0' 4' 8' 16'
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Exp: 06/30/27
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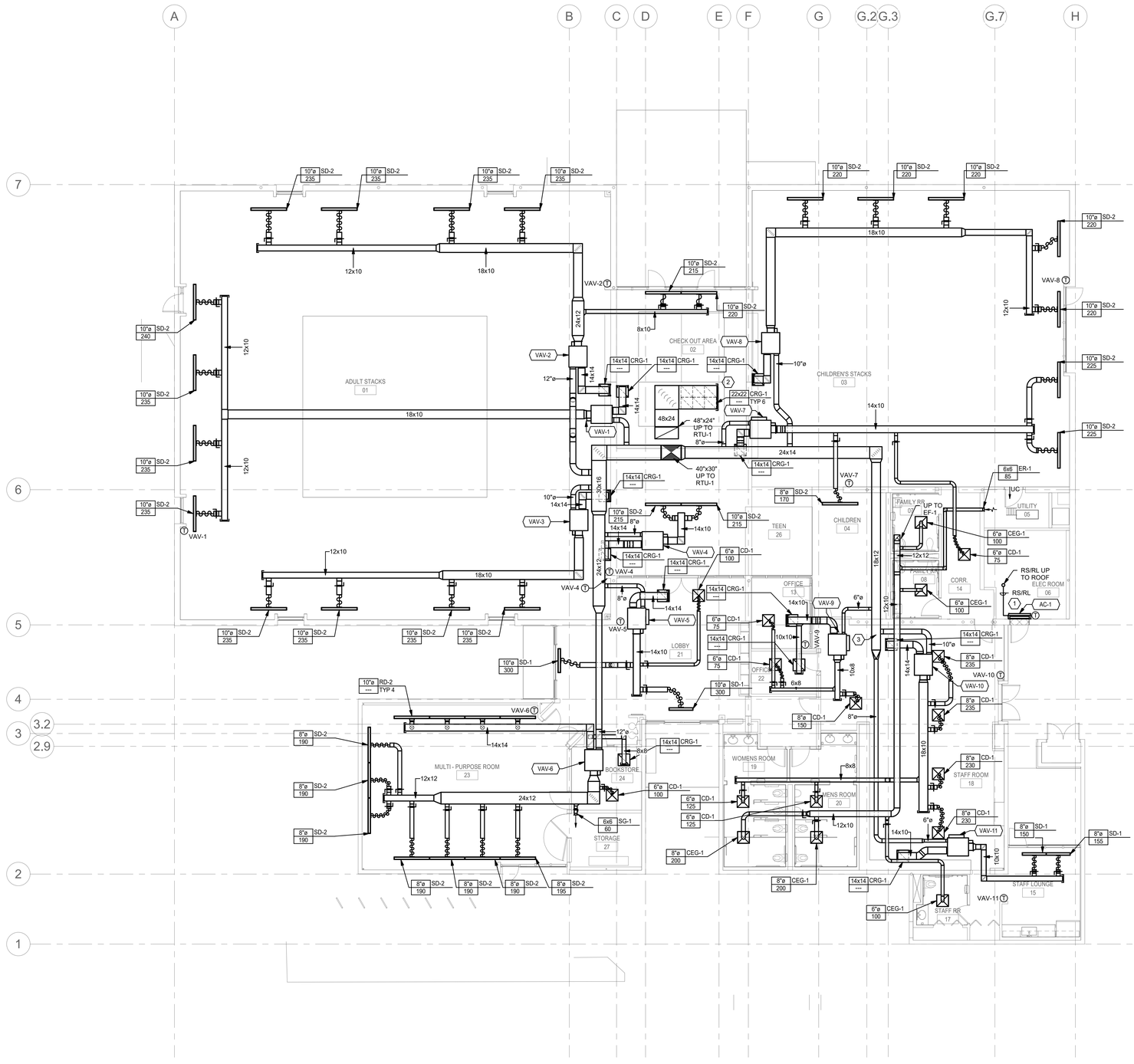
Sheet Name:
ROOF DEMOLITION PLAN - MECHANICAL

Project No.:	Sheet No.:
24.05	MD201
Drawn By: HWK	
Checked By: EDS	
Scale: 1/8" = 1'-0"	

SHEET KEYNOTES

1. NEW WALL MOUNTED AC UNIT INSTALLED ABOVE DOOR. COORDINATE EXACT LOCATION WITH ROOM LAYOUT. SEE PLUMBING DRAWINGS FOR CONDENSATE DRAIN PIPING.
2. DUCT RETURN AIR DEVICES TO UNDERSIDE OF RETURN AIR DUCT.
3. DUCT STATIC PRESSURE SENSOR FOR RTU-1.



1 FIRST FLOOR PLAN - MECHANICAL

NORTH

0' 4' 8' 16'

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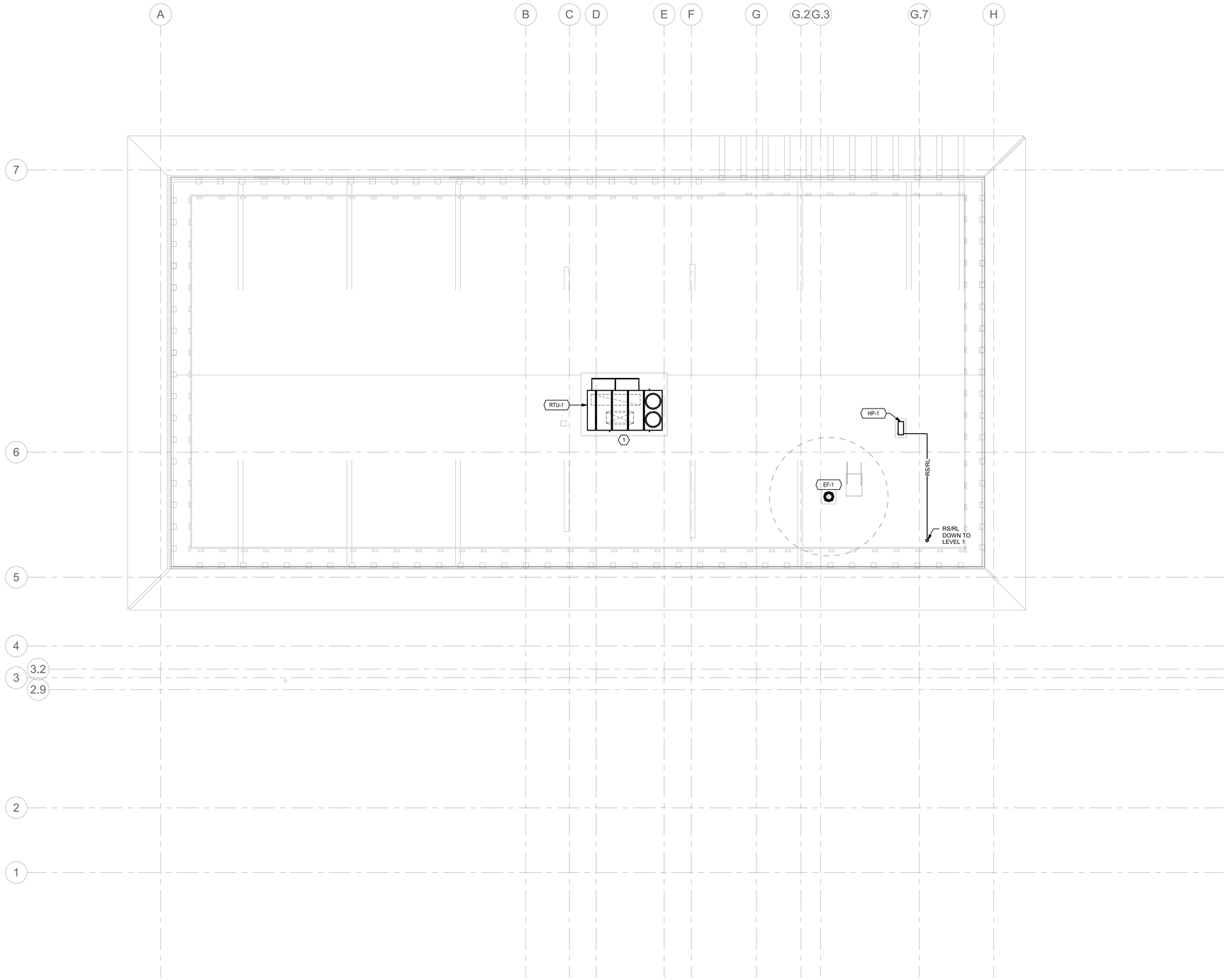
Sheet Name:
FIRST FLOOR PLAN - MECHANICAL

Project No.:	Sheet No.:
24.05	M200
Drawn By: HWK	
Checked By: EDS	
Scale: 1/8" = 1'-0"	

SHEET KEYNOTES

1. NEW ROOFTOP UNIT. COORDINATE EXACT LOCATION WITH ROOF AND STRUCTURAL CONDITIONS. SEE PLUMBING DRAWINGS FOR CONDENSATE DRAIN PIPING.



1 ROOF PLAN - MECHANICAL

0' 4' 8' 16'

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ROOF PLAN - MECHANICAL

Project No.:	Sheet No.:
24.05	M201
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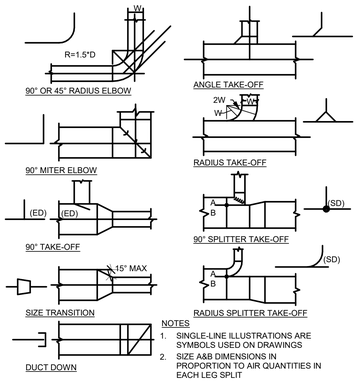
Scale: 1/8" = 1'-0"	

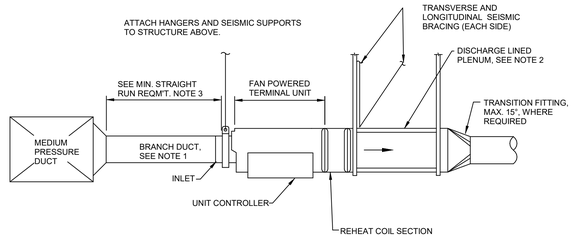


NOTES

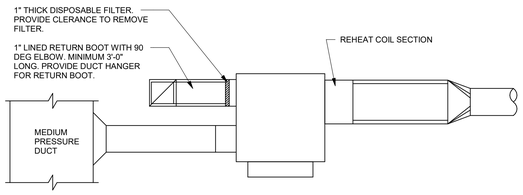
1. SINGLE-LINE ILLUSTRATIONS ARE SYMBOLS USED ON DRAWINGS
2. SIZE A&B DIMENSIONS IN PROPORTION TO AIR QUANTITIES IN EACH LEG SPLIT

1 RECTANGULAR DUCT DETAIL

NO SCALE



SIDE VIEW



TOP VIEW

NOTES:

1. BRANCH DUCT SIZE TO MATCH UNIT INLET CONNECTION. FOR BRANCH DUCTS OVER 15 FEET IN LENGTH, INCREASE BRANCH DUCT ONE SIZE AND PROVIDE TRANSITION IMMEDIATELY UPSTREAM OF MINIMUM STRAIGHT DUCT RUN.
2. MINIMUM 5 FEET LONG LINED PLENUM EQUAL TO TERMINAL BOX OUTLET SIZE.
3. MINIMUM STRAIGHT DUCT RUN SHALL BE EQUAL TO 4 TIMES THE INLET DIAMETER OF TERMINAL UNIT.
4. FIRST BRANCH DUCT DOWNSTREAM OF TERMINAL MUST BE A MINIMUM OF 5 FEET DOWNSTREAM OF TERMINAL UNIT.

4 TYPICAL SERIES FAN POWERED TERMINAL UNIT DUCTING

NO SCALE

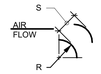
NOTE:

PROPER INSTALLATION OF TURNING VANES FOR RECTANGULAR ELBOW WITHOUT SIZE CHANGE. CAN USE EITHER DOUBLE OR SINGLE THICKNESS TURNING VANES IN THIS APPLICATION.

NOTES:

1. PROPER INSTALLATION OF TURNING VANES WHEN RECTANGULAR MITERED ELBOW CHANGES SIZE FROM INLET TO OUTLET. DO NOT USE DOUBLE THICKNESS TURNING VANES IN THIS APPLICATION.
2. VANES DO NOT HAVE "TRAILING EDGES," BUT SHALL BE MOVED IN THE VANE RUNNER TO REMAIN TANGENT TO THE AIRSTREAM.

DOUBLE THICKNESS VANES



SINGLE THICKNESS VANES

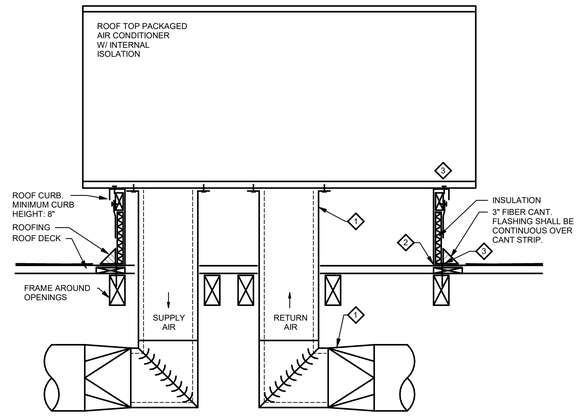
DIMENSIONS, INCHES	
R	S
2.0	1.5
4.5	3.25

NOTES:

1. THESE DETAILS INDICATE ALLOWED TURNING VANES CONSTRUCTION AND INSTALLATION FOR ALL MITERED ELBOWS.
2. ALL VANES MUST BE INSTALLED. ELIMINATING EVERY OTHER VANE IS NOT ALLOWED.
3. SINGLE THICKNESS VANES CANNOT BE OVER 36" LONG WITHOUT INTERMEDIATE VANE RUNNER.
4. ALL VANES SHALL BE INSTALLED PER SMACNA AND SHALL BE FASTEN/SUPPORTED AS NECESSARY TO PREVENT VIBRATION AND TO MAINTAIN PROPER ALLIGNMENT AT THE DESIGN VELOCITY.

7 TURNING VANE DETAILS

12" = 1'-0"

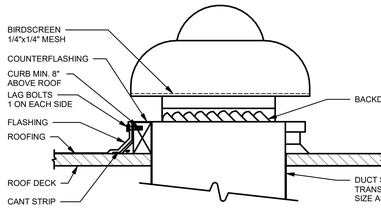


NOTES:

1. SQUARE TO ROUND TRANSITION CAN BE IN VERTICAL WITH 90° ROUND ELBOW AT BOTTOM.
2. PROVIDE SHIMS AS NECESSARY TO LEVEL CURB.
3. SEISMICALLY FASTEN CURB TO STRUCTURE AND UNIT TO CURB.
4. NO "CAP AND TAP" ALLOWED AT UNIT CONNECTIONS.

8 RTU MOUNTING & DUCT THRU ROOF

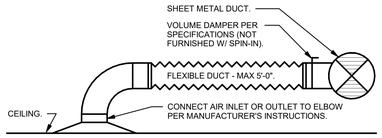
12" = 1'-0"



NOTE:
COORDINATE SIZE AND LOCATION OF ROOF PENETRATION WITH GENERAL CONTRACTOR. COORDINATE ALL ROOFING AND CURB INSTALLATION WITH GENERAL CONTRACTOR.

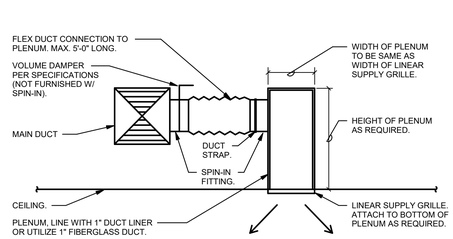
2 ROOF EXHAUST FAN

NO SCALE



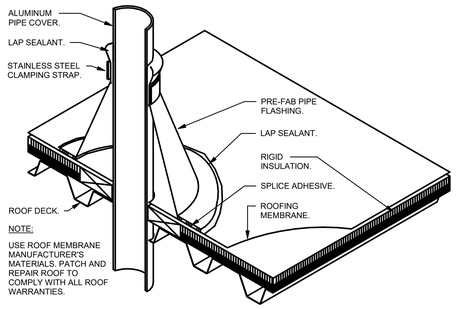
5 AIR INLET OR OUTLET ROUND NECK

NO SCALE



9 LINEAR SUPPLY GRILLE

NO SCALE

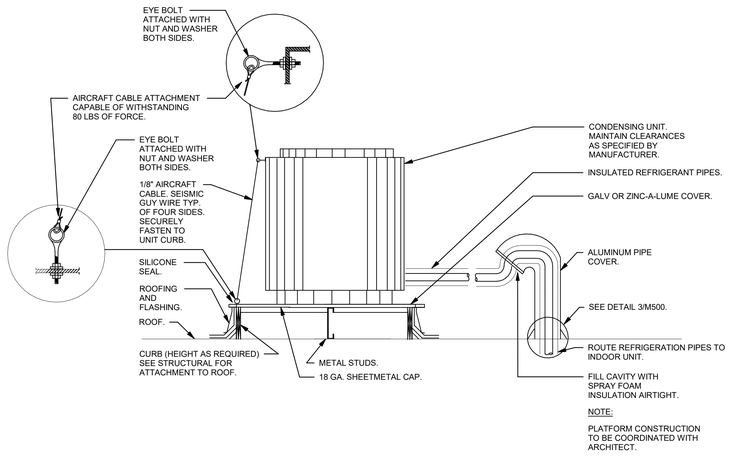


NOTE:

USE ROOF MEMBRANE MANUFACTURER'S MATERIALS. PATCH AND REPAIR ROOF TO COMPLY WITH ALL ROOF WARRANTIES.

3 REFRIGERANT PIPING COVER PENETRATION

NO SCALE

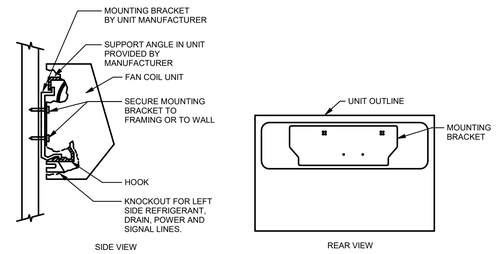


NOTE:

PLATFORM CONSTRUCTION TO BE COORDINATED WITH ARCHITECT.

6 ROOFTOP CONDENSING UNIT CURB

NO SCALE



NOTE:
1. FOR DRAIN CONNECTION, REFER TO PLUMBING DRAWINGS.

10 WALL MOUNTED DUCTLESS SPLIT SYSTEM MOUNTING DETAIL

NO SCALE

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Seal & Signature:

REGISTERED PROFESSIONAL ENGINEER
EUGENE DE SOUZA
No. M34451
Exp: 06/30/27
MECHANICAL
STATE OF CALIFORNIA

Sheet Name:

DETAILS - MECHANICAL

Project No.:	Sheet No.:
24.05	M500
Drawn By: HWK	
Checked By: EDS	
Scale: NO SCALE	

PLUMBING SYMBOL LIST

NOTE: This is a standard symbol list and not all items listed may be used.

Abbreviations

(A)	ABANDON IN PLACE
AFF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
AR	ACID-RESISTANT
&	AND
A	AQUASTAT, ARCHITECT, ANCHOR, AMPHERE
@	AT
BFP	BACKFLOW PREVENTER
BV	BALANCING VALVE
BFF	BELOW FINISHED FLOOR
BF	BLIND FLANGE
BTUH	BRITISH THERMAL UNITS PER HOUR
BLDG	BUILDING
CV	CHECK VALVE
CO	CLEANOUT
CW	COLD WATER
CD	CONDENSATE DRAIN
CONT.	CONTINUATION
CFH	CUBIC FEET PER HOUR
CFS	CUBIC FEET PER SECOND
(X)	DEMOLISH
DW	DISHWASHER, DOMESTIC WATER
DET	DOMESTIC EXPANSION TANK
DCVA	DOUBLE CHECK VALVE ASSEMBLY
DN	DOWN
DS	DOWNSPOUT
DSN	DOWNSPOUT NOZZLE
D	DRAIN
DFU	DRAINAGE FIXTURE UNIT
DWV	DRAINAGE, WASTE AND VENT
DF	DRINKING FOUNTAIN
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
ELECT	ELECTRICAL
ESV	ELECTRONIC SOLENOID VALVE
EEW	EMERGENCY EYE WASH
ESH	EMERGENCY SHOWER
(E)	EXISTING
EJ	EXPANSION JOINT
FT	FEET
FPS	FEET PER SECOND
FFE	FINISHED FLOOR ELEVATION
F	FIRE, FAHRENHEIT
FC	FLEXIBLE CONNECTOR
FL	FLOOR
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FS	FLOOR SINK
FV	FLUSH VALVE
'	FOOT, FEET
(F)	FUTURE
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GD	GARBAGE DISPOSER, GARAGE DRAIN
GWH	GAS WATER HEATER
GW	GREASE WASTE
HD	HEAD, HUB DRAIN
HP	HEAT PUMP, HORSE POWER, HOUSEKEEPING PAD
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
HZ	HERTZ
HB	HOSE BIBB
HW	HOT WATER
HWFU	HOT WATER FIXTURE UNIT
HWR	HOT WATER RETURN
IN, "	INCHES
IW	INDIRECT WASTE
INV	INVERT ELEVATION
KW	KILOWATT
L	LAVATORY
MW	MAKE-UP WATER
MAX	MAXIMUM
HG	MERCURY
MIN	MINIMUM
MX	MIXING VALVE
MS	MOP SINK
MH	MOUNTING HEIGHT, MANHOLE
(N)	NEW
NPCW	NON-POTABLE COLD WATER
NOP	NORMALLY OPEN
N	NORTH
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
#	NUMBER
NO.	NUMBER
OD	OVERFLOW DRAIN, OUTSIDE DIAMETER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
PH	PHASE
PLBG	PLUMBING
P	PLUMBING, PUMP
POC	POINT OF CONNECTION
PSI	POUNDS PER SQUARE INCH
PD	PRESSURE DROP, PLUMBING DEMOLITION, PUMPED DISCHARGE
PG	PRESSURE GAUGE
PRV	PRESSURE REDUCING VALVE
PS	PRESSURE SWITCH
QTY	QUANTITY
RWL	RAINWATER LEADER
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
RV	RELIEF VENT, RELIEF VALVE
(R)	RELOCATE / RELOCATED LOCATION
RPM	REVOLUTIONS PER MINUTE
RD	ROOF DRAIN
SAN	SANITARY
SJ	SEISMIC JOINT
SB	SERVICE BOX
SS	SERVICE SINK
SHT	SHEET
SA	SHOCK ARRESTOR
SH	SHOWER
SOV	SHUT OFF VALVE
S, SK	SINK
SF	SQUARE FEET
SD	STORM DRAIN
SP	SUMP PUMP, STATIC PRESSURE
TEMP	TEMPERATURE
T&P	TEMPERATURE AND PRESSURE
T	TEMPERATURE, THERMOMETER
TP	TRAP PRIMER, TOTAL PRESSURE
TD	TRENCH DRAIN
TYP	TYPICAL
U, UR	URINAL
V	VACUUM, VENT, VOLT
VFD	VARIABLE FREQUENCY DRIVE
VS	VENT STACK
VTR	VENT THRU ROOF
WCO	WALL CLEANOUT
WB	WASHER BOX
W	WASTE
WS	WASTE STACK
WC	WATER COLUMN
WC	WATER COLUMN, WATER CLOSET
WHA	WATER HAMMER ARRESTOR
WH	WATER HEATER, WALL HYDRANT
WSFU	WATER SUPPLY FIXTURE UNIT
W/	WITH

Control Symbols

- AI — ANALOG INPUT TO DDC PANEL
- AO — ANALOG OUTPUT FROM DDC PANEL
- DP — DIFFERENTIAL PRESSURE SENSOR
- DI CT — DIGITAL INPUT CURRENT TRANSFORMER
- DI — DIGITAL INPUT TO DDC PANEL
- DO — DIGITAL OUTPUT FROM DDC PANEL
- DO S/S — DIGITAL OUTPUT START/STOP SIGNAL
- FM — FLOW METER
- T E — LINE VOLTAGE THERMOSTAT

General

- X / X — DETAIL NUMBER AND SHEET LOCATION
- X — KEYED NOTE
- X / XX — SECTION NUMBER AND SHEET LOCATION
- DEMOLISH
- EXISTING WORK
- NEW WORK
- PIPE OR CONDUIT BELOW GRADE
- CONTINUATION
- EXTENT OF DEMOLITION
- PIPE BELOW GRADE
- POINT OF CONNECTION
- X — FIXTURE TAG (LEVEL BELOW FIXTURE)
- XX — FOOD SERVICE EQUIPMENT / CALCULATION TAG
- XXX.X — HVAC EQUIPMENT IDENTIFICATION (REF. ONLY)
- XX.X / LOCATION — PLUMBING EQUIPMENT IDENTIFICATION

Piping Fittings

- AP — ACCESS PANEL
- AQUASTAT
- AD — AREA DRAIN
- BLIND FLANGE
- CAP
- COTG — CLEANOUT TO GRADE
- CONCENTRIC REDUCER
- DSN — DOWNSPOUT NOZZLE
- ECCENTRIC REDUCER
- EXPANSION JOINT
- FLEXIBLE CONNECTION
- FCO — FLOOR CLEANOUT
- FD — FLOOR DRAIN
- FS — FLOOR SINK
- FLOW DIRECTION
- FLOW SWITCH
- HOSE BIBB / WALL HYDRANT
- HD — HUB DRAIN
- METER
- OD — OVERFLOW ROOF DRAIN
- PEX — PEX MANIFOLD
- PIPE DROP
- PIPE RISE
- PRESSURE GAUGE WITH COCK
- PUMP
- RD — ROOF DRAIN
- SHOCK ABSORBER / WATER HAMMER ARRESTOR
- STRAINER
- T&P — T&P RELIEF VALVE WITH PIPE TO DRAIN
- TEE DOWN ON PIPE
- TEE UP ON PIPE
- TEMPERATURE SENSOR
- TEST PORT
- THERMOMETER
- TP — TRAP PRIMER MANIFOLD
- TRENCH DRAIN
- UNION
- VACUUM RELIEF
- VTR — VENT THROUGH ROOF
- WCO — WALL CLEANOUT

Piping Systems

- 140°HW — 140°/%d HOT WATER PIPING
- 140°HWR — 140°/%d HOT WATER RETURN PIPING
- AV — ACID RESISTANT VENT PIPING
- AW — ACID RESISTANT WASTE ABOVE GRADE
- AW — ACID RESISTANT WASTE BELOW GRADE
- COLD WATER PIPING
- CA — COMPRESSED AIR PIPING
- D — CONDENSATE / INDIRECT DRAIN PIPING
- DIR — DE-IONIZED WATER RETURN
- DIS — DE-IONIZED WATER SUPPLY
- DI — DISTILLED WATER
- F — FIRE PROTECTION PIPING
- GV — GAS VENT PIPING
- GW — GREASE WASTE ABOVE GRADE OR FINISHED FLOOR
- GW — GREASE WASTE BELOW GRADE OR FINISHED FLOOR
- HOT WATER PIPING
- HOT WATER RETURN PIPING
- IR — IRRIGATION
- 2PG — NATURAL GAS PIPING, 2 LB
- G — NATURAL GAS PIPING, 7" WC PRESSURE
- NP — NON-POTABLE COLD WATER PIPING
- NP — NON-POTABLE HOT WATER PIPING
- OD — OVERFLOW DRAIN PIPING ABOVE GRADE OR FINISHED FLOOR
- PD — PUMPED DISCHARGE
- R/O — REVERSE OSMOSIS WATER
- SANITARY VENT PIPING
- SANITARY WASTE OR SOIL PIPING ABOVE GRADE OR FINISHED FLOOR
- SANITARY WASTE OR SOIL PIPING BELOW GRADE OR FINISHED FLOOR
- SHW — SOLAR HOT WATER
- SHWR — SOLAR HOT WATER RETURN
- SD — STORM DRAIN PIPING ABOVE GRADE OR FINISHED FLOOR
- SD — STORM DRAIN PIPING BELOW GRADE OR FINISHED FLOOR
- TW — TEMPERED WATER PIPING
- TP — TRAP PRIMER PIPING

Valves

- BFP — BACKFLOW PREVENTER
- BACKWATER VALVE
- X GPM — BALANCING VALVE
- CHECK VALVE
- EARTHQUAKE GAS VALVE
- ELECTRONIC SOLENOID VALVE
- GLOBE VALVE
- HOSE END DRAIN VALVE
- NATURAL GAS PIPING CONNECTION ASSEMBLY
- PRESSURE REDUCING VALVE
- SHUTOFF VALVE, GENERAL

GENERAL PLUMBING NOTES

A. ALL WORK UNDER THIS CONTRACT SHALL CONFORM TO THE CURRENT STATE, COUNTY AND NATIONAL CODES AND STANDARDS ADOPTED BY THE LOCAL JURISDICTIONS INCLUDING APPLICABLE AMENDMENTS.

B. CONDITIONS SHOWN ON THE PLANS RELATIVE TO THE WORK TO BE PERFORMED ARE BASED ON THE BEST INFORMATION AVAILABLE AND SUBJECT TO VERIFICATION. VERIFY LOCATIONS AND ELEVATIONS OF UTILITIES TO BE CROSSED OR CONNECTED. CORRECT DEFICIENCIES CAUSED BY FAILURE TO PERFORM SUCH VERIFICATIONS AT NO EXPENSE TO OWNER. IMMEDIATELY NOTIFY ARCHITECT AND ENGINEER OF CONDITION IN CONFLICT WITH THE DETAILS/PLANS.

C. COORDINATE INSTALLATION OF PIPING, FIXTURES, EQUIPMENT AND THE LIKE BELOW AND ABOVE GRADE WITH STRUCTURAL COMPONENTS AND OTHER SYSTEMS INSTALLATION.

D. COORDINATE FIXTURES, EQUIPMENT, PIPE ROUGH-IN/CONNECTION LOCATIONS AND DRAIN LOCATIONS WITH ARCHITECTURAL DRAWINGS.

E. VALVES FOR SERVICE ACCESSIBILITY. VALVES INSTALLED ABOVE CEILING SHALL BE WITHIN 18" OF CEILING.

F. ALL WASTE PIPE TO SLOPE MINIMUM OF 1/4" PER FOOT UNLESS OTHERWISE NOTED.

G. PROVIDE WATER HAMMER ARRESTERS TO DOMESTIC WATER LINES SERVING QUICK ACTING VALVES SUCH AS THE FOLLOWING:
1. FLUSH VALVES.
2. SOLENOID VALVES TO ICEMAKERS AND DISHWASHER.
3. SENSOR FAUCETS.
4. SINGLE HANDLE FAUCETS.

H. ALL FLOOR DRAINS, FLOOR SINKS, AND OTHER INDIRECT WASTE RECEPTORS DIRECTLY CONNECTED TO THE DRAINAGE SYSTEM SHALL BE PROVIDED WITH AN AUTOMATIC TRAP PRIMER.

I. INSTALLATION OF THE DOMESTIC HOT WATER SYSTEM SHALL COMPLY WITH THE MANDATORY REQUIREMENTS OF SECTION 1103.3 OF THE CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS.

J. DRAINAGE PIPING SERVING FIXTURES THAT ARE LOCATED BELOW THE ELEVATION OF THE NEXT UPSTREAM MANHOLE SHALL BE PROVIDED WITH A BACKWATER VALVE. FIXTURES ABOVE THAT LEVEL SHALL NOT DISCHARGE THROUGH THIS VALVE.

K. SEWER VENTS SHALL TERMINATE AT LEAST 10 FEET HORIZONTALLY **(25 FEET FOR OSHPD PROJECTS)** FROM AND AT LEAST 3 FEET ABOVE OPENABLE WINDOW, DOOR OPENING, AIR INTAKE OR VENT SHAFT. VENT MUST BE AT LEAST 3 FEET FROM PROPERTY LINE.

L. PRIOR TO BEING CONCEALED, PIPING PENETRATIONS AT THE FIRE RESISTIVE ASSEMBLIES SHALL BE INSPECTED TO VERIFY COMPLIANCE WITH THE FIRE RESISTANCE RATING.

M. INDIRECT WASTE SHALL DISCHARGE TO THE BUILDING DRAINAGE THROUGH AN APPROVED AIR GAP OR AIR BREAK WITH A MINIMUM 1" DISTANCE FROM THE LOWEST POINT OF INDIRECT PIPE TO THE FLOOD LEVEL RIM OF THE RECEPTOR.

N. ALL WORK TO COMPLY WITH 2022 CALIFORNIA PLUMBING CODE

SHEET INDEX

P001	SYMBOL LIST AND GENERAL NOTES - PLUMBING
P002	SCHEDULES - PLUMBING
PD200	UNDERGROUND DEMOLITION PLAN - PLUMBING
PD201	FIRST FLOOR WASTE & VENT DEMOLITION PLAN - PLUMBING
PD202	FIRST FLOOR WATER DEMOLITION PLAN - PLUMBING
PD203	ROOF DEMOLITION PLAN - PLUMBING
P100	SITE PLAN - PLUMBING
P200	UNDERGROUND PLAN - PLUMBING
P201	FIRST FLOOR WASTE & VENT PLAN - PLUMBING
P202	FIRST FLOOR WATER PLAN - PLUMBING
P203	ROOF PLAN - PLUMBING
P400	RISER DIAGRAMS - PLUMBING
P500	DETAILS - PLUMBING

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SYMBOL LIST AND GENERAL NOTES - PLUMBING

Project No.:	Sheet No.:
24.05	P001
Drawn By: Author	
Checked By: Checker	
Scale: 12" = 1'-0"	

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HYDRAULIC CALCULATIONS

PROJECT NAME	GOLETA LIBRARY			
PROJECT ADDRESS	500 N FAIRVIEW AVE.			
TYPE OF PRESSURE	WATER MAIN			
EST. MAX. COLD WATER DEMAND		68 FU (F.V.)	58	GPM
EST. AVAILABLE PRESSURE (CITY MAIN)			76.0	PSI
(E) PRV OUTLET PRESSURE			70.0	PSI
EST. LOSS THRU (E) WATER METER			3.6	PSI
EST. LOSS THRU (E) RP BFP			14.0	PSI
RESIDUAL PRESSURE AT FURTHEST FIXTURE			35.0	PSI
STATIC GAIN BLDG. HEIGHT	15 FT	X 0.434 =	6.5	PSI
		ALLOWABLE PRESSURE FOR FRICTION LOSS =	29.9	PSI
TOTAL DEVELOPED LENGTH =	300 FT	X 1.25 =	375	FT
		ALLOWABLE LOSS/100 FT. LENGTH =	**8.0**	PSI

PLUMBING FIXTURE UNIT SCHEDULE

FIXTURE	TAG	QTY	WASTE		COLD WATER		HOT WATER	
			DFU/ EACH	TOTAL DFU	CWFU/ EACH	TOTAL CWFU	HWFU/ EACH	TOTAL HWFU
WATER CLOSET (FLUSH VALVE)	WC-1, WC-2	9	4.0	36.0	5.0	45.0	---	---
URINAL (FLUSH VALVE)	UR-1, UR-2	2	2.0	4.0	4.0	8.0	---	---
LAVATORY	L-1, L-2, L-3	7	1.0	7.0	1.0	7.0	0.75	5.25
BREAKROOM SINK	SK-1, SK-2	2	2.0	4.0	1.5	3.0	1.125	2.25
DRINKING FOUNTAIN (ASSEMBLY)	DF-1	1	0.5	0.5	0.5	0.5	---	---
DISHWASHER	DW-1	1	I.D.	---	1.5	1.5	1.5	1.5
MOP SINK	MS-1	1	3.0	3.0	3.0	3.0	2.25	2.25
2" FLOOR DRAIN	FD-1	7	2.0	14.0	---	---	---	---
TOTAL		30	68.5		68.0		11.25	

NOTES:

COLD AND HOT WATER PIPE SIZING CHART

	COLD WATER		COLD WATER		HOT WATER	
Size	FU's (F.V.)	GPM	FU's (F.T.)	GPM	FU's	GPM
1/2"	0	0	3	3	3	3
3/4"	0	0	10	8	8	7
1"	0	0	23	16	16	12
1-1/4"	12	29	51	29	28	19
1-1/2"	35	44	103	44	46	27
2"	132	76	254	76	119	48
2-1/2"	329	115	455	115	245	74
3"	666	165	719	165	406	105
3-1/2"	1091	220	1091	220	585	140
4"	1668	290	1668	290	840	185
PIPE MATERIAL:	TYPE "L" COPPER		DESIGN FRICTION LOSS:		8	PSI / 100FT

ALLOWABLE WATER SUPPLY VELOCITY SHALL NOT EXCEED 8 FT/S FOR CW & 5 FT/S FOR HW.

HOT WATER DEMAND CALCULATIONS

FIXTURE	TAG	HOT WATER DEMAND PER UNIT (GPH)	QUANTITY	HOT WATER DEMAND (GPH)
BASIN (LAVATORY PUBLIC)	L-1	6	7	42
SERVICE SINK	MS-1	20	1	20
KITCHEN SINK	S-1	20	1	20
	FACILITY TYPE:	OFFICE	TOTAL HOT WATER DEMAND (GPH):	82
DEMAND FACTOR:	0.30	REQUIRED WATER HEATER RECOVERY RATE (GPH):		**24.6**
STORAGE CAPACITY FACTOR:	2.00	REQUIRED WATER HEATER STORAGE (GALLONS):		**49.2**

WATER HEATER SIZING CALCULATIONS				
MINIMUM RECOVERY RATE (GPH)	FUEL TYPE	THERMAL EFFICIENCY	TEMPERATURE RISE (°F)	**INPUT (KW)**
24.6	ELECTRIC	0.98	80	**5**

PIPE MATERIAL SPECIFICATIONS

SANITARY WASTE & VENT, STORM & OVERFLOW DRAIN (ABOVE GRADE)	"NO-HUB" CAST IRON SOIL PIPE AND FITTINGS WITH STANDARD-DUTY COUPLINGS. ALL HI-TORQ-125, FM 1680, CLASS 1.
SANITARY WASTE & VENT, STORM & OVERFLOW DRAIN (BELOW GRADE)	"NO-HUB" CAST IRON SOIL PIPE AND FITTINGS WITH HEAVY-DUTY COUPLINGS HUSKY SD4000 OR CLAMP. ALL HI-TORQ-125, FM 1680, CLASS 1.
DOMESTIC WATER (ABOVE GRADE)	TYPE "L" COPPER TUBING, ASME B16.18 COPPER FITTINGS, SOLDERED (Sn95 SOLDER) JOINTS.
DOMESTIC WATER (BELOW GRADE)	TYPE "K" COPPER TUBING WITH BRAZED JOINTS.
PRIMER PIPING (ABOVE & BELOW GRADE)	TYPE "L" HARD-DRAWN COPPER TUBING WITH WROUGHT SWEAT FITTINGS AND SOLDERED JOINTS.
CONDENSATE DRAIN PIPING	TYPE "M" COPPER TUBING AND WROUGHT COPPER OR CAST BRONZE SWEAT FITTINGS (95/5 SOLDERED JOINTS). ON SIZES 1-1/4 INCHES OR LARGER, PROVIDE "DWV" PATTERN DRAINAGE FITTINGS.

NOTES:

1. SEE SPECS FOR ADDITIONAL INFORMATION.
2. PRESSURE LOCK TYPE AND PRESSED FITTING CONNECTIONS ARE NOT PERMITTED.
3. DIELECTRIC UNIONS SHALL BE USED AT ALL POINTS OF CONNECTIONS WHERE THERE IS DISSIMILARITY OF METALS.
4. ABS AND PVC INSTALLATIONS ARE NOT ALLOWED.

DHW PIPE INSULATION THICKNESS SCHEDULE

FLUID OPERATING TEMPERATURE (DEGREES F)	NOMINAL PIPE DIAMETER (INCHES)		
	0.75 AND SMALLER	1 TO 1.5	2 AND LARGER
105-140	1.0	1.5	2.0

1. PIPE INSULATION SHALL BE PROVIDED FOR DOMESTIC HOT WATER PIPING AND DOMESTIC HOT WATER RETURN PIPING.
2. PIPE INSULATION THICKNESSES SHALL COMPLY WITH CEC TABLE 120.3-A, AND CPC 609.12.3.

PLUMBING FIXTURE SCHEDULE

			BASIS OF DESIGN			BRANCH SIZE				
SYMBOL	FIXTURE TYPE	DESCRIPTION	MFR	MODEL	ACCESSORIES	W	V	CW	HW	NOTES
DF-1	DRINKING FOUNTAIN	WALL MOUNTED, SINGLE BOWL W/ BOTTLE FILLER, STAINLESS STEEL FINISH, VANDAL RESISTANT BUBBLERS, FRONT PUSHBUTTONS. ADA MOUNTING HEIGHT	ELKAY	EZSDWSLK		1-1/2"	1-1/2"	1/2"	--	1, 2
FD-1	FLOOR DRAIN	CAST IRON BODY, FLASHING COLLAR, 6-INCH ADJUSTABLE NICKEL BRONZE STRAINER HEAD, TRAP PRIMER	JR SMITH	2005Y-A-P050-NB		2"*	2"*	PRIMER CONN.	--	
L-1	LAVATORY (0.5 GPM / 0.2 GPC)	UNDER COUNTER MOUNTED, VITREOUS CHINA, ROUND, NO OVERFLOW. ADA MOUNTING HEIGHT.	KOHLER	CAXTON K-29000-0	SINGLE HOLE AC POWERED SENSOR FAUCET KOHLER KUMIN K-103K36-SANA-BL	1-1/2"	1-1/2"	(2) 1/2"	(2) 1/2"	1, 2
L-2	LAVATORY (0.5 GPM / 0.2 GPC)	UNDER COUNTER MOUNTED, VITREOUS CHINA, ROUND, NO OVERFLOW. ADA MOUNTING HEIGHT.	KOHLER	CAXTON K-29000-0	SINGLE HOLE AC POWERED SENSOR FAUCET KOHLER KUMIN K-103K36-SANA-BL	1-1/2"	1-1/2"	(2) 1/2"	(2) 1/2"	1, 2
L-3	LAVATORY (0.5 GPM / 0.2 GPC)	WALL MOUNTED, VITREOUS CHINA, SQUARE, FRONT OVERFLOW.	KOHLER	PINOIR K-2028-1-0	SINGLE HOLE AC POWERED SENSOR FAUCET KOHLER KUMIN K-103K36-SANA-BL PROVIDE WITH KOHLER SINK SHROUD K-2057-0	1-1/2"	1-1/2"	(2) 1/2"	(2) 1/2"	1, 2
MS-1	MOP SINK	FLOOR MOUNT CORNER SERVICE SINK, VITREOUS CHINA	KOHLER	WHITBY K-6710	WALL MOUNTED KOHLER TRITON BOWE FAUCET K-8387B0-4A. KOHLER WHITBY SINK RIM GUARD K-8940. KOHLER STRAINER K-9142	3"	2"	1/2"	1/2"	
RR-1	ROOF RECEPTOR	CAST IRON BODY, NON-PUNCTURING FLASHING CLAMP AND SOLID WATER DAM.	JR SMITH	3970		2"	2"	--	--	
SK-1	BREAK ROOM SINK (1.5 GPM)	ADA HEIGHT UNDERMOUNT SINGLE BASIN. 25"x22"x9-5/16" DEEP. STAINLESS STEEL.	KOHLER	VAULT K-3822-1-NA	DECK MOUNTED KOHLER COMPONENTS FAUCET - K-28267-CP. INSINKERATOR 79850-ISE GARBAGE DISPOSAL, 3/4HP	2"	1-1/2"	3/4"	3/4"	1, 2, 3
TP-1	TRAP PRIMER	AUTOMATIC PRESSURE DROP ACTIVATED TRAP PRIMER VALVE	MIFAB	MR-500-NPB	WALL ACCESS BOX	--	--	1/2"	--	
UR-1	URINAL (0.5 GPF)	WALL MOUNTED, VITREOUS CHINA, BACK SPUD, FLUSHOMETER, STANDARD HEIGHT	TOTO	UT104EV	TOTO ECOPOWER TET2LA31#SS WALL PLATE VALVE	2"	1-1/2"	3/4"	--	1
UR-2	URINAL (0.5 GPF)	WALL MOUNTED, VITREOUS CHINA, BACK SPUD, FLUSHOMETER, ADA HEIGHT	TOTO	UT104EV	TOTO ECOPOWER TET2LA31#SS WALL PLATE VALVE	2"	1-1/2"	3/4"	--	1
WC-1	WATER CLOSET (1.28 GPF)	WALL MOUNTED, VITREOUS CHINA, BACK SPUD, FLUSHOMETER BARRIER FREE, STANDARD HEIGHT	TOTO	WASHLET CWT4264726CMFG#MS	TOTO ECOPOWER TET2LA31#SS WALL PLATE VALVE	4"	2"	1"	--	1
WC-2	WATER CLOSET (1.28 GPF)	WALL MOUNTED, VITREOUS CHINA, BACK SPUD, FLUSHOMETER BARRIER FREE, ADA HEIGHT	TOTO	WASHLET CWT4264726CMFG#MS	TOTO ECOPOWER TET2LA31#SS WALL PLATE VALVE	4"	2"	1"	--	1
WC-3	WATER CLOSET (1.28 GPF)	FLOOR MOUNTED, VITREOUS CHINA, BACK SPUD, FLUSHOMETER BARRIER FREE, CHILD HEIGHT	VITRA	SENTO 7361	TOTO ECOPOWER TET2LA31#SS WALL PLATE VALVE	4"	2"	1"	--	1

NOTES:

1 SEE ARCHITECTURAL DRAWINGS FOR ALL FIXTURE MOUNTING HEIGHTS AND LOCATIONS.
2 REQUIRES ELECTRICAL OUTLET.
3 PROVIDE LEAK DETECTION AND AUTOMATIC SHUT-OFF VALVE FOR BOTH COLD AND HOT WATER BRANCH LINES AND CONNECT TO BAS.
* UNLESS NOTED OTHERWISE ON DRAWINGS

PLUMBING DEVICES SCHEDULE

		BASIS OF DESIGN		CONNECTION				
SYMBOL	DESCRIPTION	MFR	MODEL	W	V	CW	HW	NOTES
ET-1	THERMAL EXPANSION TANK	AMTROL	ST-5C-DD	-	-	3/4"	-	1
TMV-1	THERMOSTATIC MIXING VALVE	WATTS	LFG480	-	-	1/2"	1/2"	2
TMV-2	THERMOSTATIC MIXING VALVE	WATTS	LFN170-M3	-	-	1"	1"	3
WHA-1	WATER HAMMER ARRESTOR	OATEY	AA THRU F	-	-	-	-	

NOTES:
1. PROVIDE AT WH-1.
2. PROVIDE AT HAND SINKS AND PUBLIC LAVATORIES. SET OUTLET TEMPERATURE TO 110°F.
3. PROVIDE AT WH-1. SET OUTLET TEMPERATURE TO 120°F.

PUMP SCHEDULE

			BASIS OF DESIGN					ELECTRICAL				
SYMBOL	EQUIPMENT TYPE	LOCATION / SERVING	MFR	MODEL	FLOW RATE	HEAD (FT H2O)	RPM	VOLTS	PH	AMPS	HP	COMMENTS
CP-1	HOT WATER RECIRCULATION PUMP	JC 05 / WH-1	BELL & GOSSETT	NBF-12U/LW	1 GPM	10	2800	115	1	0.48	1/40	

NOTES:

WATER HEATER SCHEDULE

			BASIS OF DESIGN		TANK CAPACITY (GALLONS)	WEIGHT (LBS)	RECOVERY DATA		ELECTRICAL DATA			
SYMBOL	EQUIPMENT TYPE	LOCATION / SERVING	MFR	MODEL			RECOVERY RATE	TEMPERATURE RISE (DEG F)	VOLTS	PH	KW	COMMENTS
WH-1	ELECTRIC TANK-TYPE WATER HEATER	JC 05 / DHW	RHEEM	ELD80-TB	72	900	61 GPH	80	208	3	12.1	1

NOTES: 1. SET STORAGE TEMPERATURE TO 140 DEGREES F.

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SCHEDULES - PLUMBING

Project No.: 24.05
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Scale:

Sheet No.:
P002

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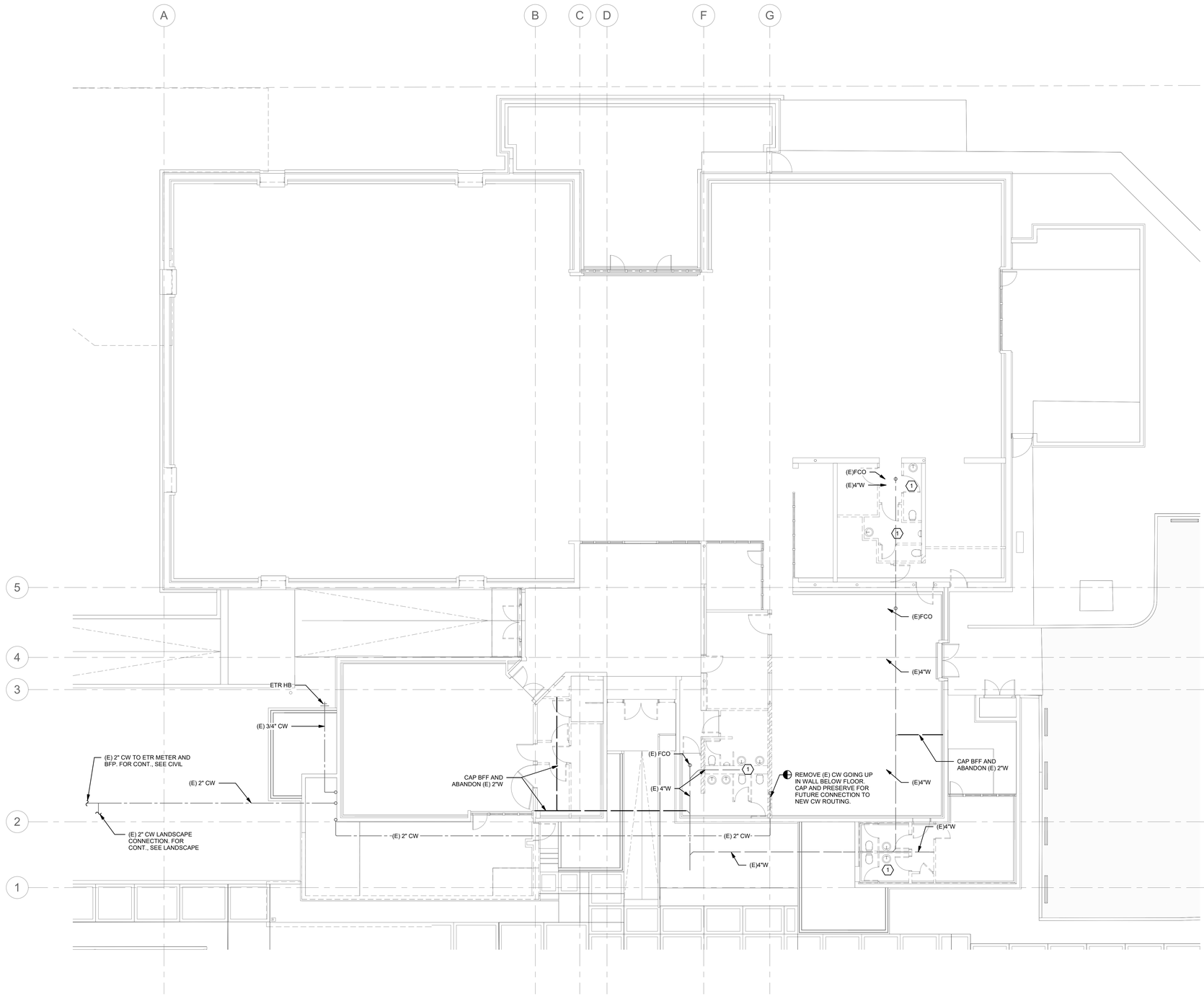
SHEET KEYNOTES

1. CAP EXISTING LINE AFTER FIXTURE DEMO FOR FUTURE CONNECTION.



1 UNDERGROUND DEMOLITION PLAN - PLUMBING

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UNDERGROUND DEMOLITION PLAN - PLUMBING

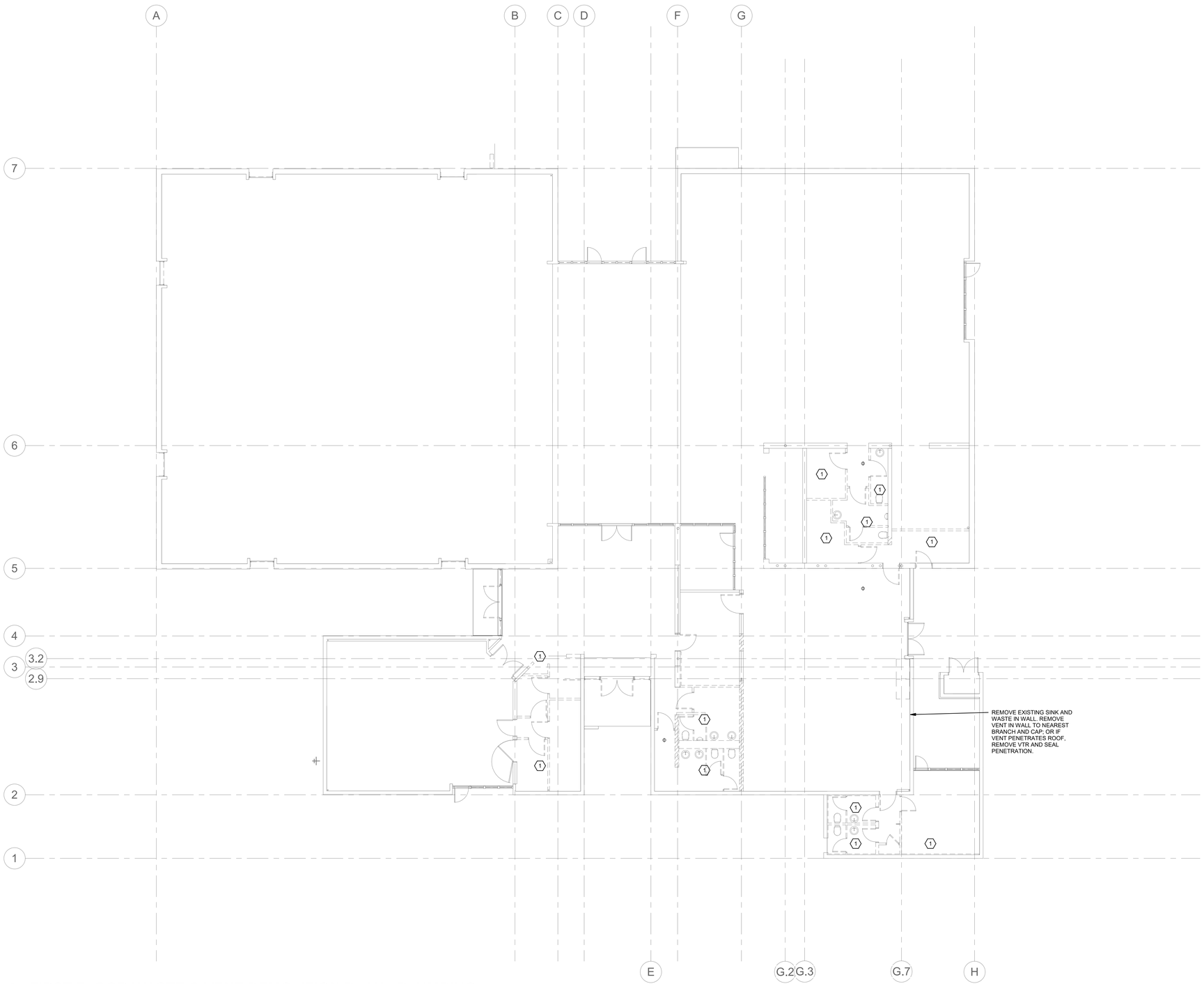
Project No.:	Sheet No.:
24.05	PD200
Drawn By: Author	
Checked By: Checker	
Scale: 1/8" = 1'-0"	

GENERAL SHEET NOTES

A. REMOVE ALL EXISTING VENT PIPING AND PRESERVE ROOF PENETRATIONS FOR FUTURE VENT PIPING.
B. STORM AND OVERFLOW PIPING TO REMAIN IN PLACE.

SHEET KEYNOTES

1. REMOVE ALL EXISTING PLUMBING FIXTURES AND APPURTENANCES IN THIS ROOM. REMOVE ALL PIPING INSIDE WALL. CAP CW, HW, AND V PIPING IN CEILING AND MODIFY FOR NEW FIXTURE LOCATIONS.



1 FIRST FLOOR WASTE & VENT DEMOLITION PLAN - PLUMBING

0' 4' 8' 16'
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FIRST FLOOR WASTE & VENT DEMOLITION PLAN - PLUMBING

Project No.: 24.05
Drawn By: Author
Checked By: Checker
Scale: 1/8" = 1'-0"
Sheet No.: PD201

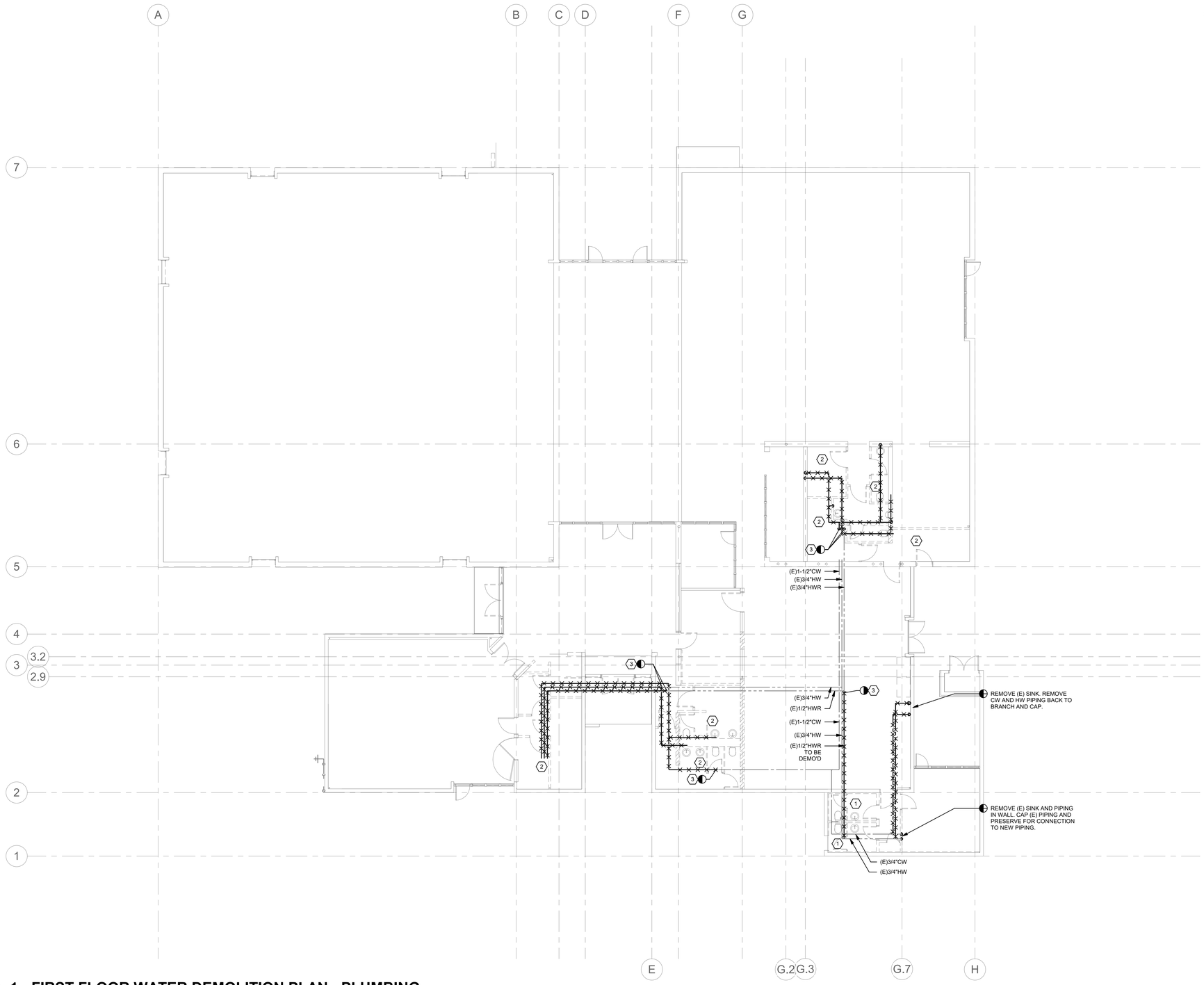
GENERAL SHEET NOTES

SHEET KEYNOTES

1. REMOVE ALL EXISTING PLUMBING FIXTURES AND APPURTENANCES IN THIS ROOM TO MAIN BRANCH AND CAP.

2. REMOVE ALL EXISTING PLUMBING FIXTURES AND APPURTENANCES IN THIS ROOM TO POINT OF DISCONNECTION AS SHOWN.

3. POINT OF DISCONNECTION. REMOVE PIPING AND FIXTURES DOWNSTREAM. CAP AND PRESERVE EXISTING TO REMAIN FOR FUTURE CONNECTION.



1 FIRST FLOOR WATER DEMOLITION PLAN - PLUMBING

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FIRST FLOOR WATER DEMOLITION PLAN - PLUMBING

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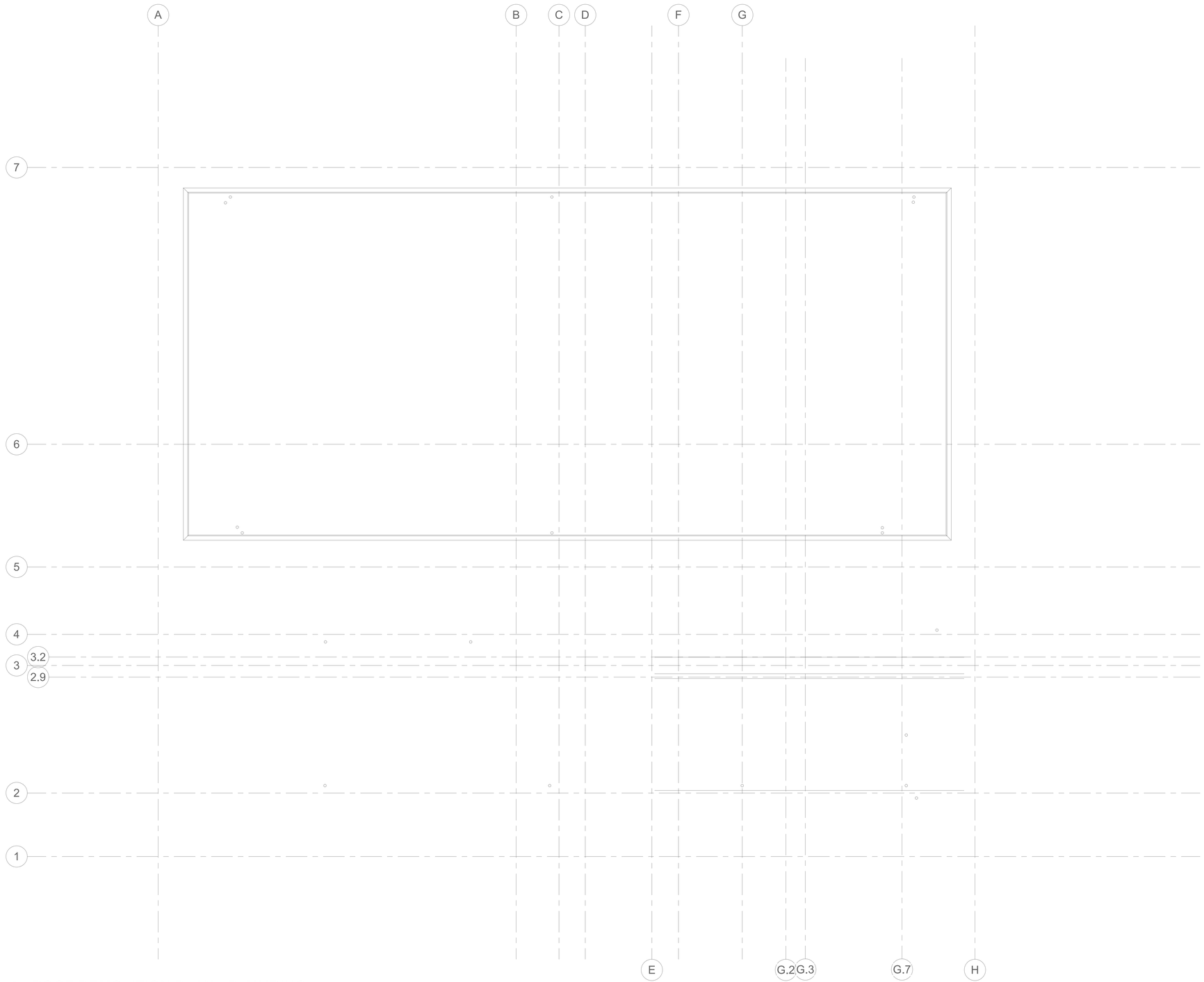

1 ROOF DEMOLITION PLAN - PLUMBING

0' 4' 8' 16'

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ROOF DEMOLITION PLAN - PLUMBING

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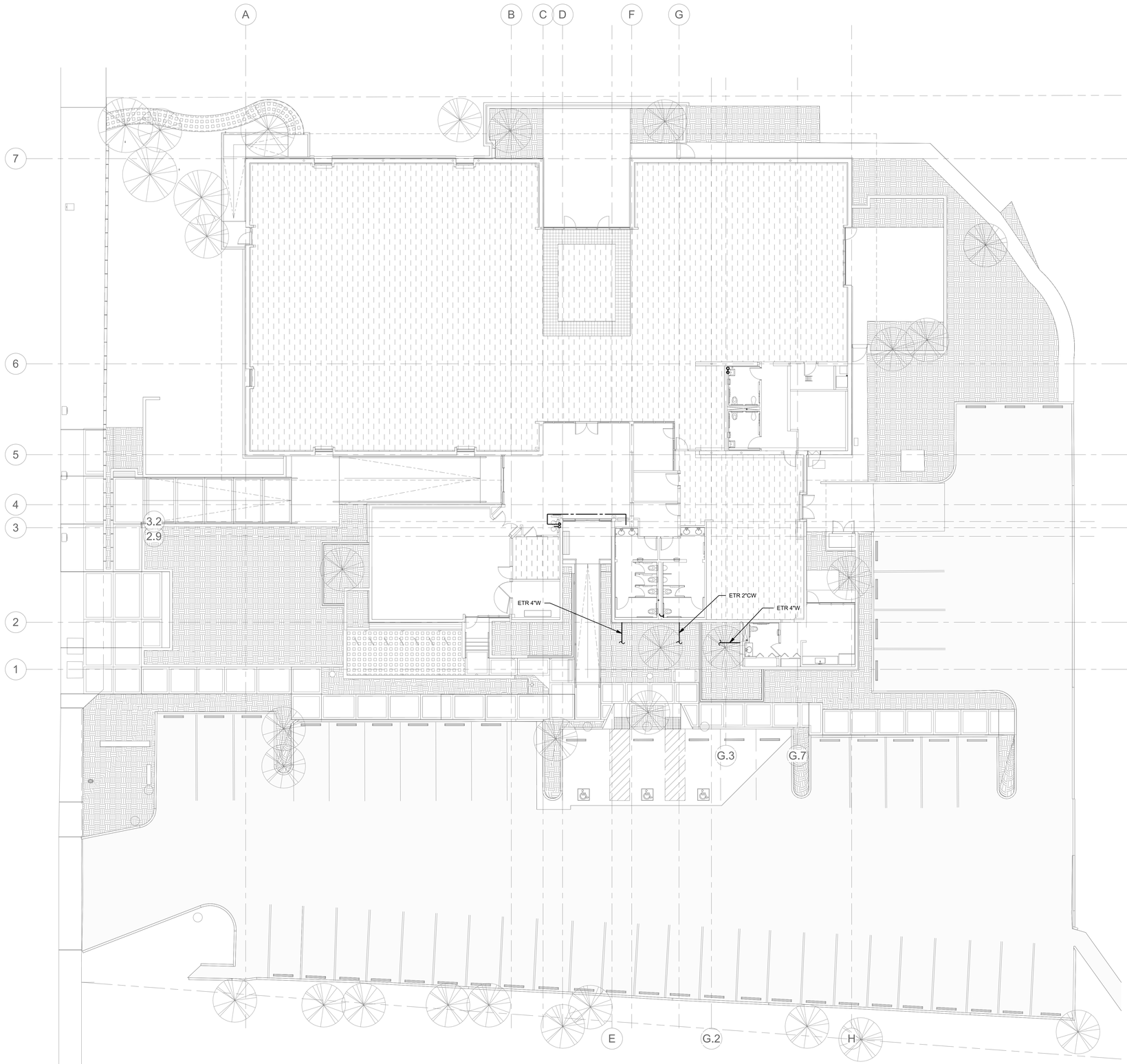

1 SITE PLAN - PLUMBING

0' 8' 16' 24'

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SITE PLAN - PLUMBING

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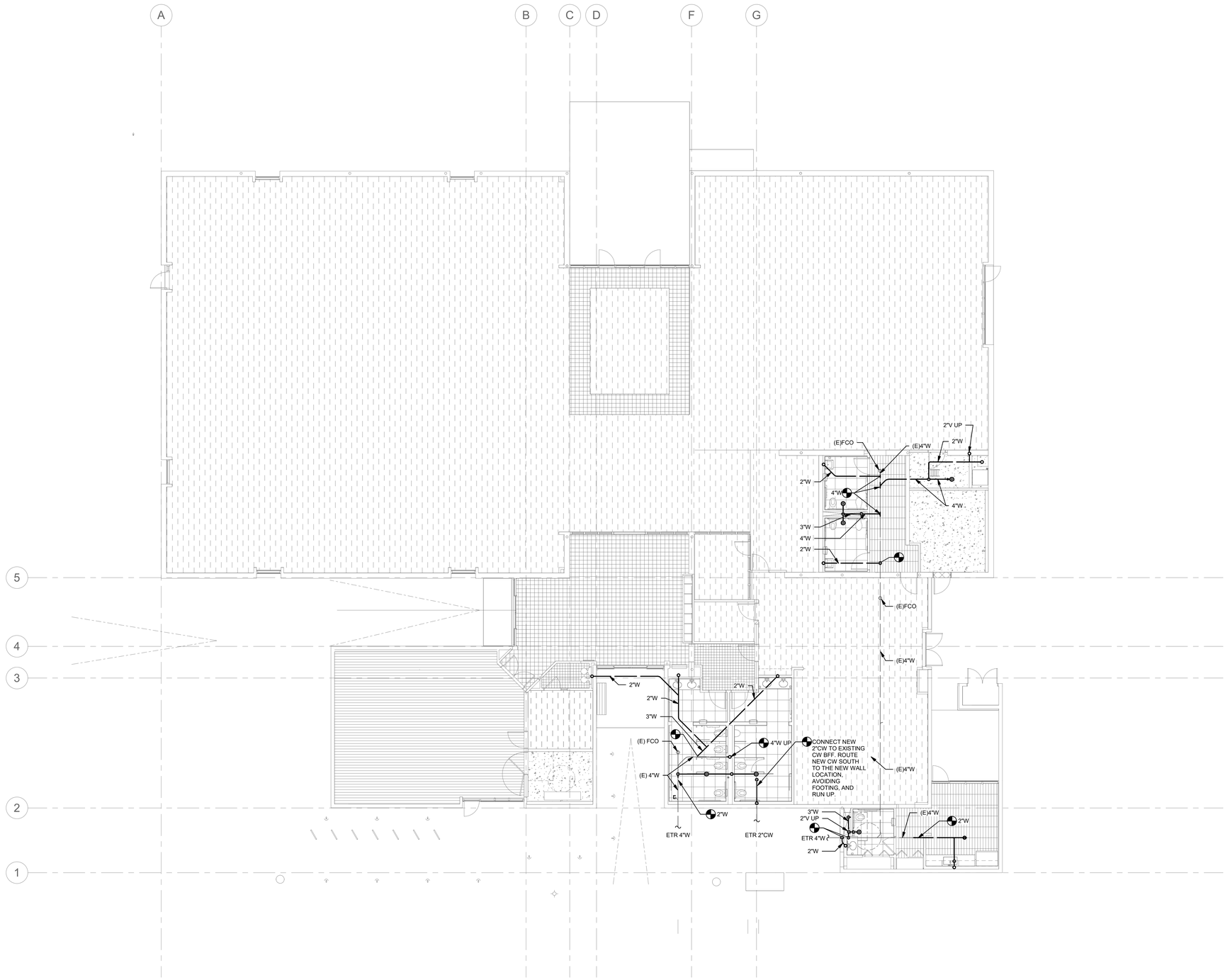

1 UNDERGROUND PLAN - PLUMBING

0' 4' 8' 16'

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UNDERGROUND PLAN - PLUMBING

Project No.: 24.05

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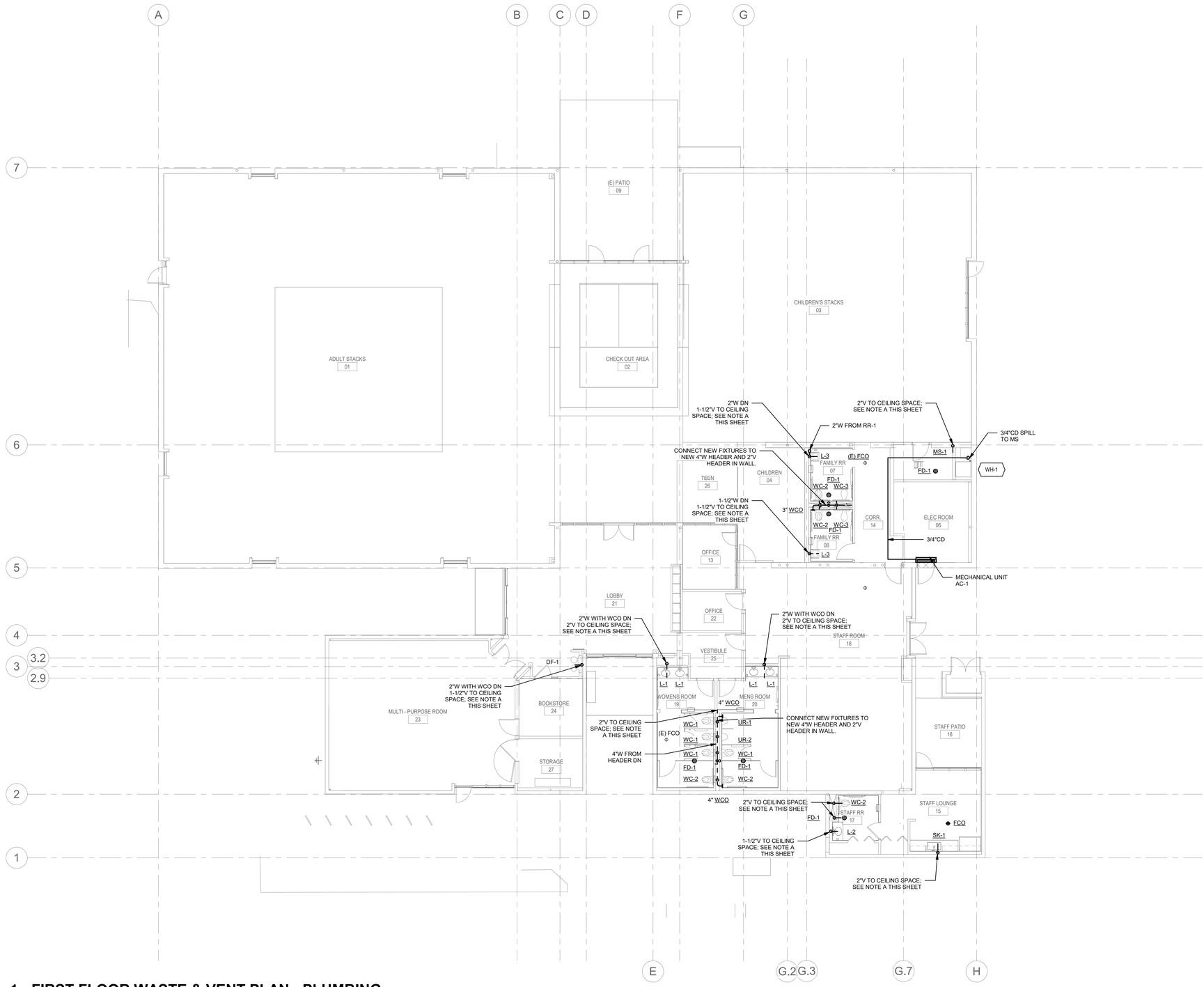
Scale: 1/8" = 1'-0"

Sheet No.: P200

GENERAL SHEET NOTES

A. GATHER NEW VENT PIPING ABOVE CEILING AND RUN TO NEAREST EXISTING VTR PENETRATION.
B. STORM AND OVERFLOW PIPING TO REMAIN IN PLACE.



1 FIRST FLOOR WASTE & VENT PLAN - PLUMBING

NORTH

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Sheet Name:
FIRST FLOOR
WASTE & VENT
PLAN - PLUMBING

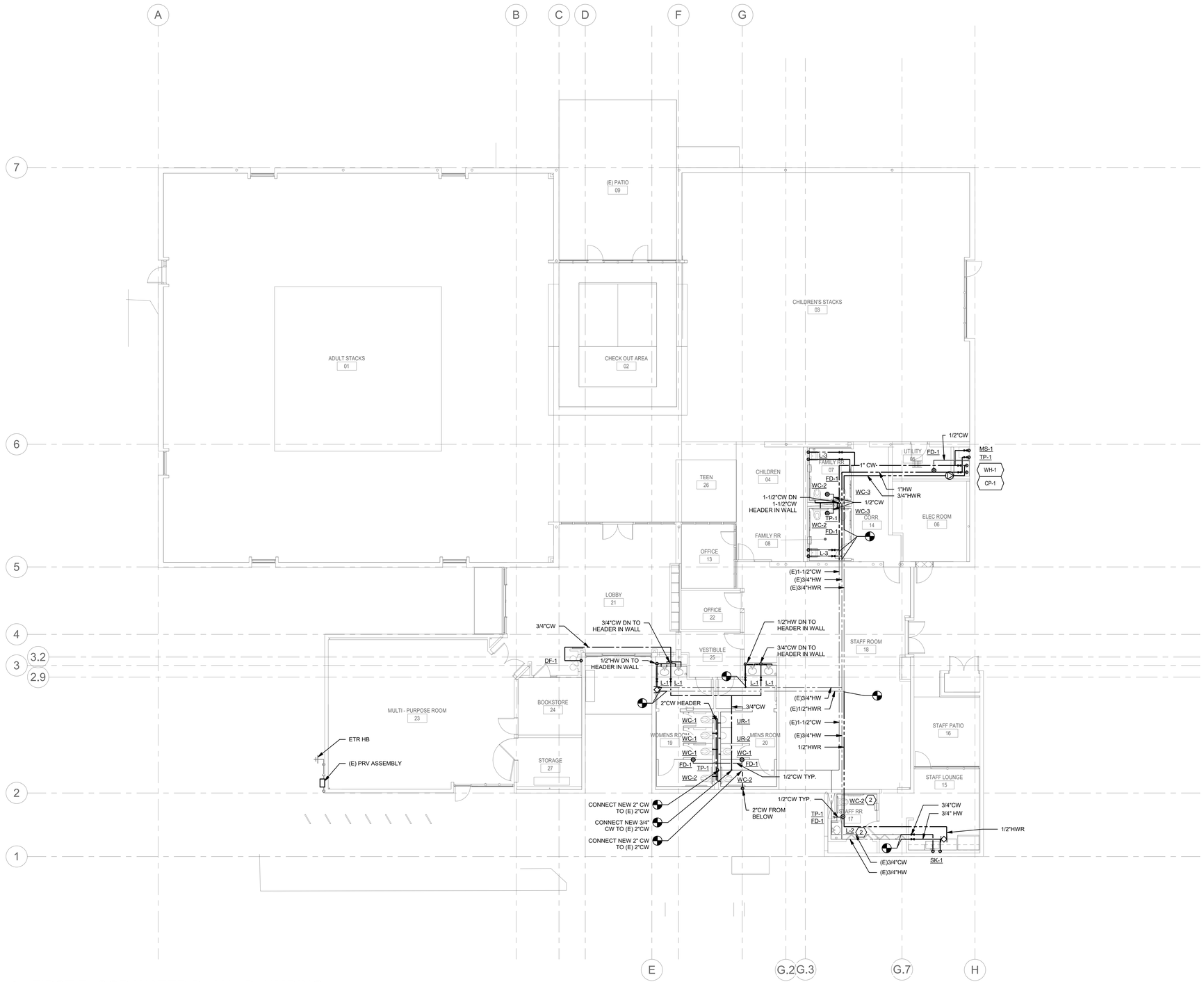
Project No.:	Sheet No.:
24.05	P201
Drawn By: Author	
Checked By: Checker	
Scale: 1/8" = 1'-0"	

GENERAL SHEET NOTES

A. INSTALL WATER HAMMER AT QUICK CLOSING VALVES

SHEET KEYNOTES

1. NOT USED
2. CONNECT NEW PIPING FROM FIXTURE TO EXISTING PIPING.



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NORTH

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Sheet Name:

FIRST FLOOR
WATER PLAN -
PLUMBING

Project No.: 24.05

Drawn By: Author

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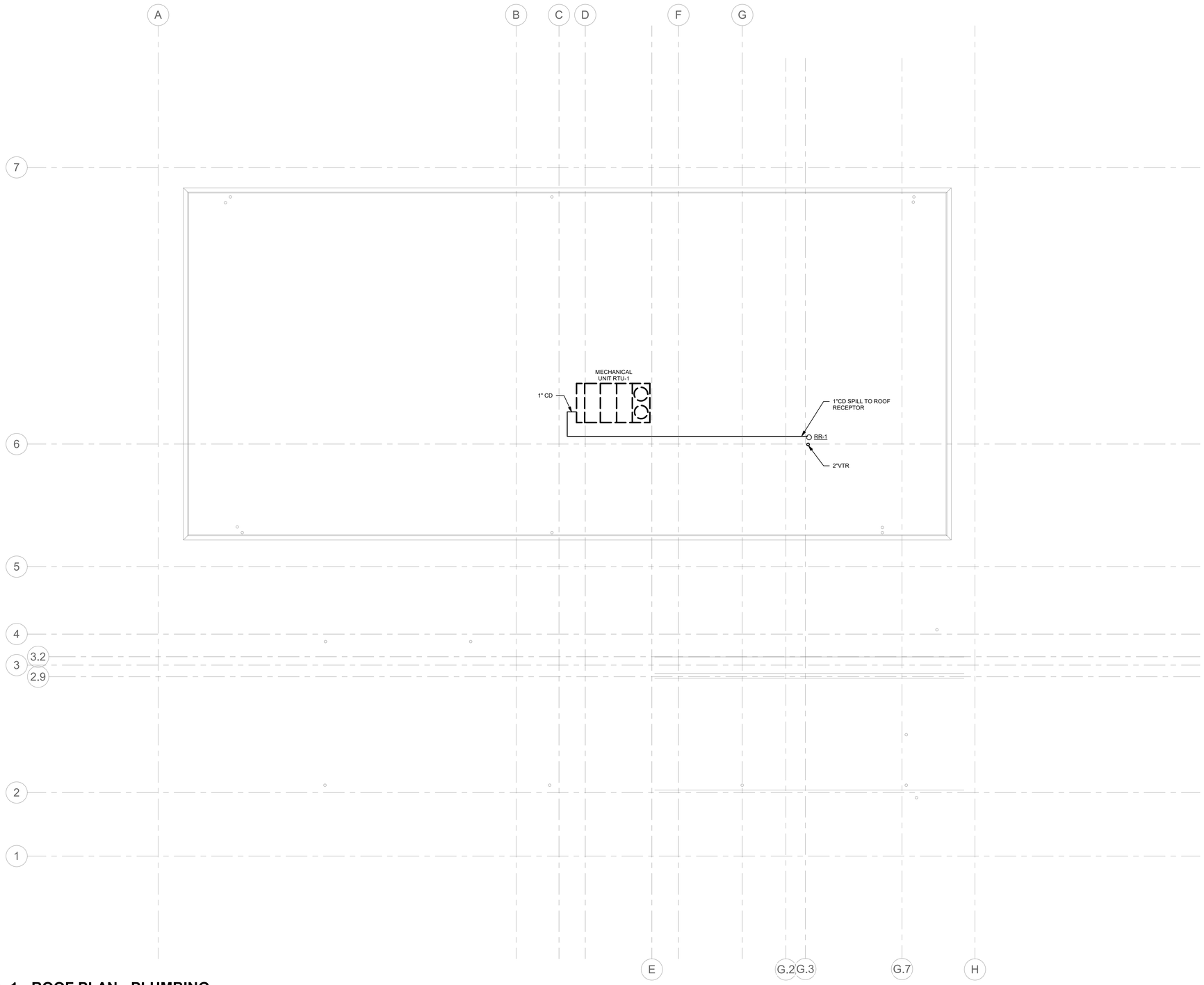
Scale: 1/8" = 1'-0"

Sheet No.: P202

GENERAL SHEET NOTES

A. ROOF / OVERFLOW DRAINS AND STORM PIPING TO REMAIN IN PLACE.



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ROOF PLAN - PLUMBING

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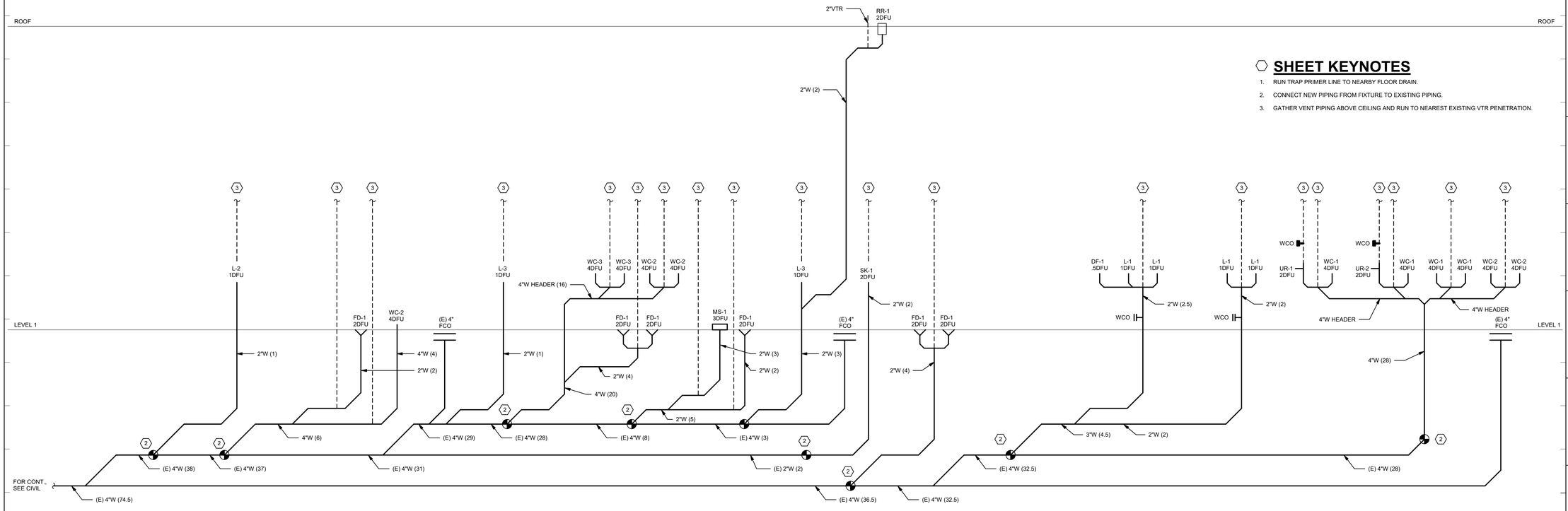
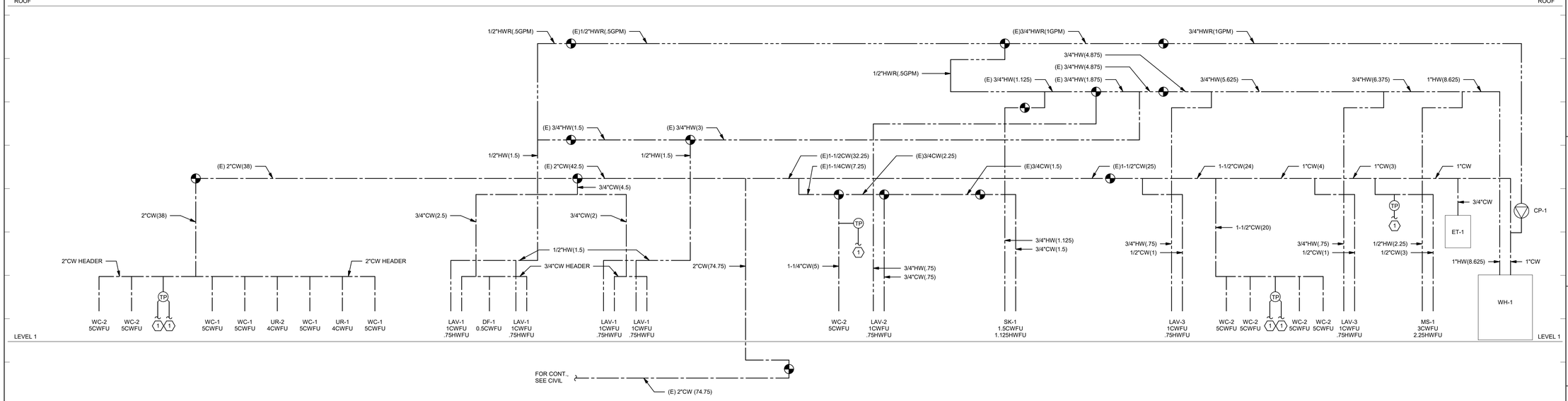


NOTE: WASTE PIPING TO SLOPE AT A MINIMUM OF 2%

WASTE AND VENT DIAGRAM



WATER DIAGRAM

10/10/2025 6:49:46 PM

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Key Plan:

Seal & Signature:

REGISTERED PROFESSIONAL ENGINEER EUGENE DEMKOVICH No. M 31827 MECHANICAL STATE OF CALIFORNIA

PRELIMINARY

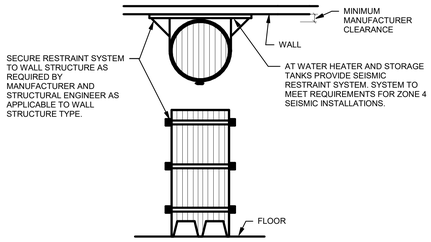
Sheet Name:
RISER DIAGRAMS
- PLUMBING

Project No.: 24.05
Drawn By: Author
Checked By: Checker
Scale:

Sheet No.:
P400

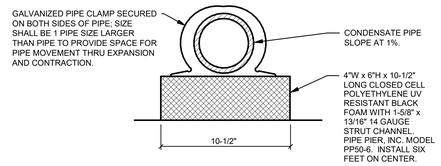
SIZE	TANK HGT ABOVE FLOOR	NO. OF STRAPS	LOCATION
66 GAL OR LESS	12" OR LESS	1	BETWEEN TOP 1/3 AND 1/2 OF TANK
66 GAL OR LESS	MORE THAN 12"	2	TOP-IN TOP 1/3 OF TANK BOTTOM-3" ABOVE OR BELOW ACCESS PANEL
66 GAL OR 100	12" OR LESS	2	TOP-IN TOP 1/3 OF TANK BOTTOM-3" ABOVE OR BELOW ACCESS PANEL
66 GAL OR 100	MORE THAN 12"	3	TOP-IN TOP 1/3 OF TANK BOTTOM-3" ABOVE OR BELOW ACCESS PANEL MIDDLE-CENTER OF TANK

NOTE: MAINTAIN CLEARANCES TO COMBUSTIBLES AS REQUIRED BY MANUFACTURER.
UTILIZE NON COMBUSTIBLE MATERIAL AS SPACER.



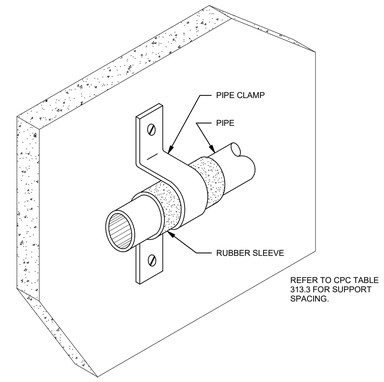
9 EARTHQUAKE BRACING (WATER HEATERS)

0' 4' 8' 16'
NO SCALE



6 CONDENSATE DRAIN PIPING ON ROOF

0' 4' 8' 16'
NO SCALE



3 NOISE SUPPRESSION AND SUPPORT

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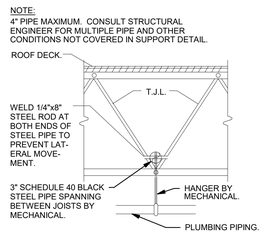
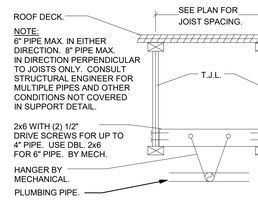


PIPE SUPPORT "A"

NO SCALE



PIPE SUPPORT "B"

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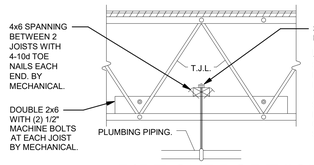


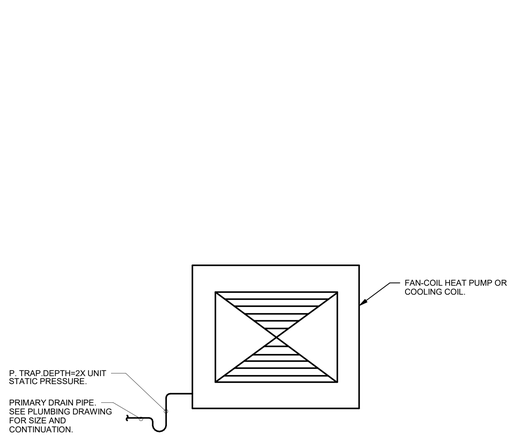
PIPE SIZE (IN)	MIN. ROD SIZE (IN)
UP TO 1"	3/8"
1-1/2"	3/8"
2 TO 2-1/2"	3/8"

PIPE SUPPORT "C"

NO SCALE

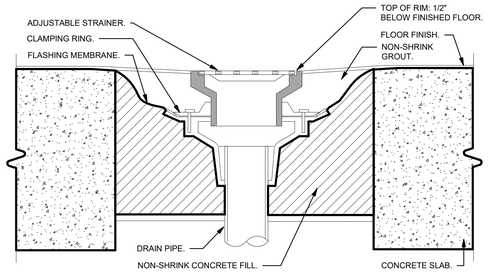
2 PIPE SUPPORT

0' 4' 8' 16'
NO SCALE



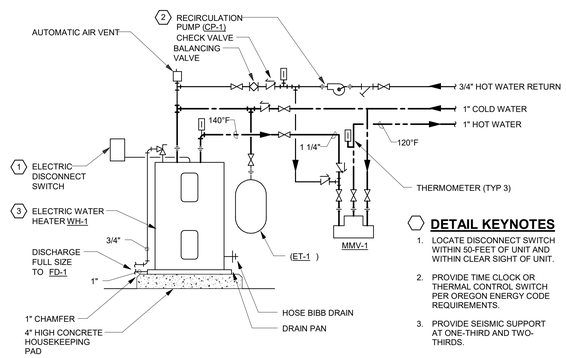
8 CONDENSATE DRAIN PIPING

0' 4' 8' 16'
NO SCALE



5 FLOOR DRAIN

0' 4' 8' 16'
NO SCALE

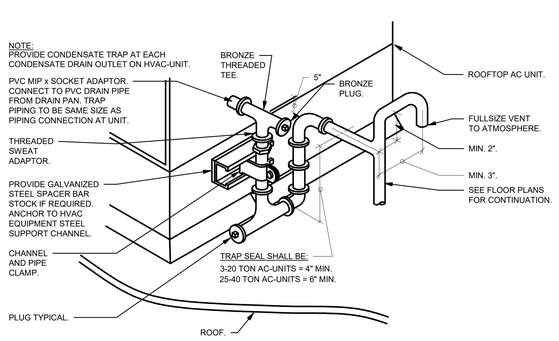


DETAIL KEYNOTES

1. LOCATE DISCONNECT SWITCH WITHIN 50-FEET OF UNIT AND WITHIN CLEAR SIGHT OF UNIT.
2. PROVIDE TIME CLOCK OR THERMAL CONTROL SWITCH PER OREGON ENERGY CODE REQUIREMENTS.
3. PROVIDE SEISMIC SUPPORT AT ONE-THIRD AND TWO-THIRDS.

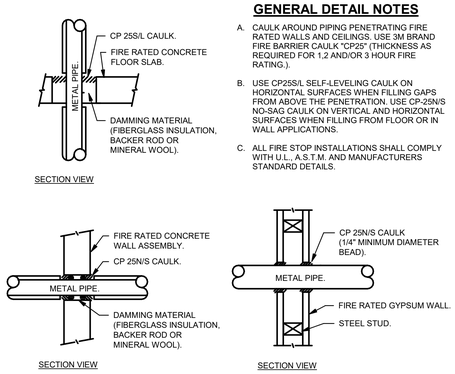
1 ELECTRIC DOMESTIC WATER HEATING SYSTEM

0' 4' 8' 16'
NO SCALE



7 CONDENSATE DRAIN PIPING ON ROOF

0' 4' 8' 16'
NO SCALE



GENERAL DETAIL NOTES

A. CAULK AROUND PIPING PENETRATING FIRE RATED WALLS AND CEILINGS. USE 3M BRAND FIRE BARRIER CAULK "CP25" (THICKNESS AS REQUIRED FOR 1,2 AND/OR 3 HOUR FIRE RATING.).

B. USE CP25S/L SELF-LEVELING CAULK ON HORIZONTAL SURFACES WHEN FILLING GAPS FROM ABOVE THE PENETRATION. USE CP-25N/S NO-SAG CAULK ON VERTICAL AND HORIZONTAL SURFACES WHEN FILLING FROM FLOOR OR IN WALL APPLICATIONS.

C. ALL FIRE STOP INSTALLATIONS SHALL COMPLY WITH U.L., A.S.T.M. AND MANUFACTURERS STANDARD DETAILS.

4 RATED WALL, FLOOR AND CEILING PIPING PENETRATION

0' 4' 8' 16'
NO SCALE

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PRELIMINARY

Sheet Name:
DETAILS - PLUMBING

Project No.: 24.05
Drawn By: Author
Checked By: Checker
Scale: As indicated

Sheet No.:
P500

10/10/2025 6:49:47 PM

GENERAL NOTES

1. NO CHANGES TO THE "FS" SHEETS BY THE SPRINKLER SUBCONTRACTOR ARE ALLOWED EXCEPT FOR ADDING SHOP DRAWING INFORMATION. ALL REQUIRED REVISIONS TO THE "FS" SHEETS (OTHER THAN MINOR REVISIONS FOR THE PURPOSE OF COORDINATION) SHALL BE SUBMITTED IN WRITING AND SHALL BE APPROVED BY JENSEN HUGHES AND DSA.
2. THE SPRINKLER SYSTEMS IN THESE BUILDINGS SHALL BE MONITORED BY A CENTRAL STATION SIGNALING SYSTEM FURNISHED AND INSTALLED BY THE ALARM CONTRACTOR. ALL TAMPER SWITCHES AND WATER FLOW INDICATORS SHALL BE INSTALLED BY THE SPRINKLER CONTRACTOR AND WIRED TO THE CENTRAL STATION SIGNALING SYSTEM BY THE ALARM CONTRACTOR.
3. THE SPRINKLER SUBCONTRACTOR IS RESPONSIBLE FOR ALL CUTTING, SEALING, PATCHING, AND PAINTING REQUIRED FOR INSTALLATION OF THE SPRINKLER SYSTEM. ALL PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE STOPPED WITH AN APPROVED MATERIAL AS PRESCRIBED IN THE CALIFORNIA BUILDING CODE.
4. THE SPRINKLER SUBCONTRACTOR SHALL BE C-16 LICENSED BY THE STATE OF CALIFORNIA FOR DESIGN AND INSTALLATION OF AUTOMATIC SPRINKLER SYSTEMS.
5. SYSTEM DESIGN AND INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 13. MATERIALS TO BE UL LISTED OR FM APPROVED.
6. ALL ABOVE GROUND PIPE SHALL BE BLACK STEEL, SCHEDULE 10 FOR PIPES 2 1/2" AND LARGER AND SCHEDULE 40 FOR PIPES 2" AND SMALLER.
7. HANGER LOCATIONS FOR ALL PIPING SHALL BE IN ACCORDANCE WITH NFPA 13 CHAPTER 17. SEE HANGER SCHEDULE AND/OR DETAILS FOR TYPES OF HANGERS USED.
8. BRANCH LINE RESTRAINTS SHALL BE PROVIDED ON ALL BRANCH LINES, EXCEPT WHERE THE FOLLOWING ARE MET (NFPA 13 SECTION 18.5.5.10.1):
   - 8.1. THE BRANCH LINES SHALL BE INDIVIDUALLY SUPPORTED WITHIN 6 INCHES OF THE STRUCTURE, MEASURED BETWEEN THE TOP OF THE PIPE AND THE POINT OF ATTACHMENT TO THE BUILDING STRUCTURE.
   - 8.2. CONSECUTIVE HANGERS AND AT LEAST 75 PERCENT OF ALL THE HANGERS ON THE BRANCH LINE SHALL MEET THE REQUIREMENT ABOVE.
9. PROVIDE RIGID COUPLINGS THROUGHOUT, EXCEPT FLEXIBLE COUPLINGS SHALL BE INSTALLED AS FOLLOWS:
   - 9.1. WITHIN 24 INCHES OF THE TOP AND BOTTOM OF ALL RISERS.
   - 9.2. ON BOTH SIDES OF CONCRETE OR MASONRY WALLS WITHIN 1 FOOT OF THE WALL SURFACE WHERE ADEQUATE CLEARANCE IS NOT PROVIDED.
   - 9.3. WITHIN 24 INCHES OF BUILDING EXPANSION JOINTS.
   - 9.4. WITHIN 24 INCHES OF THE TOP OF DROPS EXCEEDING 15 FEET IN LENGTH TO PORTIONS OF SYSTEMS SUPPLYING MORE THAN ONE SPRINKLER, REGARDLESS OF PIPE SIZE.
   - 9.5. ABOVE AND BELOW ANY INTERMEDIATE POINTS OF SUPPORT FOR A RISER OR OTHER VERTICAL PIPE.
10. ALL WELDING TO BE DONE BY CERTIFIED WELDERS.
11. JOINING OF PIPE AND FITTINGS SHALL BE DONE WITH GROOVED COUPLINGS WHEN THREADED CAST IRON OR DUCTILE IRON FITTINGS WITH THREADABLE PIPE.
12. ALL LOW POINT DRAINS SHALL BE IN ACCORDANCE NFPA 13 (UNLESS NOTED OTHERWISE) AND SHALL BE DISPLAYED ON SHOP DRAWINGS.
13. THE CLEARANCE BETWEEN THE DEFLECTOR AND THE TOP OF STORAGE OR CONTENTS OF STORAGE OCCUPANCIES SHALL BE 18 INCHES OR GREATER (NFPA 13 SECTION 20.9.6.1).
14. ALL INSPECTOR'S TEST CONNECTIONS AND LOW POINT DRAINS SHALL BE IN ACCORDANCE NFPA 13 (UNLESS NOTED OTHERWISE) AND SHALL BE DISPLAYED ON SHOP DRAWINGS. MOUNTING HEIGHTS OF CONTROL VALVES SHALL BE 5'-0" A.F.F. MOUNT CONTROL VALVES FOR LOW POINT DRAINS INSIDE BUILDING. PIPE DRAIN LINES TO EXTERIOR OF BUILDING. DRAIN PIPE WILL BE CONNECTED TO THE SANITARY SEWER SYSTEM CAPABLE OF HANDLING THE FLOW OF THE DRAIN.
15. THE OVERHEAD PORTION OF THIS SYSTEM SHALL BE TESTED AT 200 PSI FOR TWO HOURS. THE UNDERGROUND SYSTEM SHALL BE FLUSHED IN ACCORDANCE WITH NFPA 24 BEFORE CONNECTION WITH THE OVERHEAD SYSTEM AND BE TESTED AT 200 PSI FOR TWO HOURS.
16. SPRINKLER CONTRACTOR TO COORDINATE AND ADJUST SPRINKLERS TO ELECTRICAL, MECHANICAL, STRUCTURAL, AND ALL OTHER TRADES AT NO ADDITIONAL COST. INSTALL OFFSETS AS REQUIRED FOR COORDINATION WITH OTHER TRADES.
17. OWNER SHALL BE PROVIDED WITH TEST CERTIFICATES, CARE & MAINTENANCE BOOK, AND A SPARE HEAD CABINET WITH SPRINKLERS AND A WRENCH IN ACCORDANCE WITH NFPA 13.
18. DELIVERY OF ALL MATERIALS AND EQUIPMENT TO THE JOB SITE SHALL BE SCHEDULED TO ASSURE COMPLIANCE WITH THE PREDETERMINED CONSTRUCTION SCHEDULE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR STORAGE AND HANDLING ALL MATERIALS AND EQUIPMENT ON THE JOB SITE, INCLUDING FURNISHING OF ANY STORAGE FACILITIES OR STRUCTURE REQUIRED.
19. SPRINKLER CONTRACTOR SHALL COMPLETE AND SIGN CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR THE ABOVEGROUND PIPING. THIS FORM SHALL BE GIVEN TO THE PROJECT INSPECTOR WHO WILL FORWARD TO THE CITY OF SAN DIEGO FOR FILING IN PROJECT RECORDS.
20. SIGNAGE SHALL BE PROVIDED AS REQUIRED, INCLUDING "FIRE RISERS INSIDE."
21. FLOW SWITCH AT EACH RISER SHALL BE CONNECTED TO A 10-INCH OUTSIDE ALARM BELL OR OTHER AUDIBLE ALARM DEVICE. APPROVED IDENTIFICATION SIGNS SHALL BE PROVIDED ON THE OUTSIDE ALARM BELL "SPRINKLER FIRE ALARM -WHEN ALARM SOUNDS CALL 911 / FIRE DEPARTMENT".
22. REFERENCE THE CIVIL DRAWINGS FOR ADDITIONAL FIRELINE INFORMATION AND ACTUAL LENGTHS OF PIPE. THE LAYOUT SHOWN ON THE CIVIL DRAWINGS WILL SUPERCEDE WHAT IS SHOWN ON THE FIRE PROTECTION SITE PLAN. REFER TO THE ARCHITECTURAL DRAWINGS FOR ACTUAL BUILDING DIMENSIONS AND DETAILS. DO NOT SCALE "FS" DRAWINGS FOR CONSTRUCTION PURPOSES.
23. REFER TO THE FIRE PROTECTION SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING THE FIRE PROTECTION SYSTEM.

APPLICABLE CODES

CALIFORNIA ADMINISTRATIVE CODE 2022 EDITION
C.C.R. TITLE 24 PART 1

CALIFORNIA BUILDING CODE 2022 EDITION
C.C.R. TITLE 24 PART 2

CALIFORNIA FIRE CODE 2022 EDITION
C.C.R. TITLE 24 PART 9

CALIFORNIA ELECTRICAL CODE 2022 EDITION
C.C.R. TITLE 24 PART 3

CALIFORNIA MECHANICAL CODE 2022 EDITION
C.C.R. TITLE 24 PART 4

NFPA 13 2022 EDITION
AS AMENDED IN CHAPTER 35 OF THE CALIFORNIA BUILDING CODE.

NFPA 24 2022 EDITION
AS AMENDED IN CHAPTER 35 OF THE CALIFORNIA BUILDING CODE.

DESIGN CRITERIA

FIRST FLOOR - LIGHT HAZARD, DESIGNED TO PROVIDE 0.10 GPM/SQ. FT. OVER THE MOST REMOTE 1,500 SQ. FT. INCLUDING A HOSE DEMAND OF 100 GPM. MAXIMUM SPRINKLER SPACING SHALL BE 15 FT AND MAXIMUM PROTECTION AREA SHALL BE 225 SQ. FT.

ATTIC SPRINKLER SYSTEM: LIGHT HAZARD, DESIGNED TO PROVIDE 0.10 GPM/SQ. FT. OVER THE MOST REMOTE 7 SPRINKLERS ON EACH LOOP WITHIN THE CONCEALED SPACE (14 SPRINKLERS TOTAL), INCLUDING A HOSE DEMAND OF 100 GPM (SEE NFPA 13 SECTION 19.2.3.4.2). MAXIMUM SPRINKLER SPACING SHALL BE 15 FT (PARALLEL TO SLOPE) OR 10 FT (PERPENDICULAR TO SLOPE) AND MAXIMUM PROTECTION AREA SHALL BE 120 SQ. FT.

SCOPE OF WORK

INSTALLATION OF NEW FIRE SPRINKLER SYSTEMS IN GOLETA VALLEY LIBRARY, INCLUDING CONCEALED COMBUSTIBLE SPACE.

EQUIPMENT LIST AND SYMBOL LEGEND

SYMBOL	DESCRIPTION	MFG.	MODEL
	QUICK RESPONSE, CONCEALED PENDENT SPRINKLER	RELIABLE	G5-56; 5.6K, 155F; RA3415
	QUICK RESPONSE, RECESSED PENDENT SPRINKLER	RELIABLE	F1FR56; 5.6K, 200F; RA1414
	QUICK RESPONSE UPRIGHT SPRINKLER	RELIABLE	F1FR56; 5.6K, 200F; RA1425
	RISER ASSEMBLY	TBD	TBD
	FIRE DEPARTMENT CONNECTION	TBD	TBD
X X	HYDRAULIC REFERENCE NODE		

SHEET INDEX

ITEM	SHEET NUMBER	SHEET DESCRIPTION
1	FS000	FIRE SPRINKLER SYSTEM COVER SHEET
2	FS100	FIRE SPRINKLER SITE PLAN
3	FS200	FIRE SPRINKLER FLOOR PLAN
4	FS201	FIRE SPRINKLER CONCEALED SPACE PLAN
5	FS300	FIRE SPRINKLER RISER DETAIL
6	FS400	FIRE SPRINKLER SYSTEM DETAILS

GOLETA LIBRARY

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Sheet Name:
FIRE SPRINKLER COVER SHEET

Project No.: 24.05
Drawn By: Author
Checked By: Checker
Scale: 12" = 1'-0"

Sheet No.:
FS000

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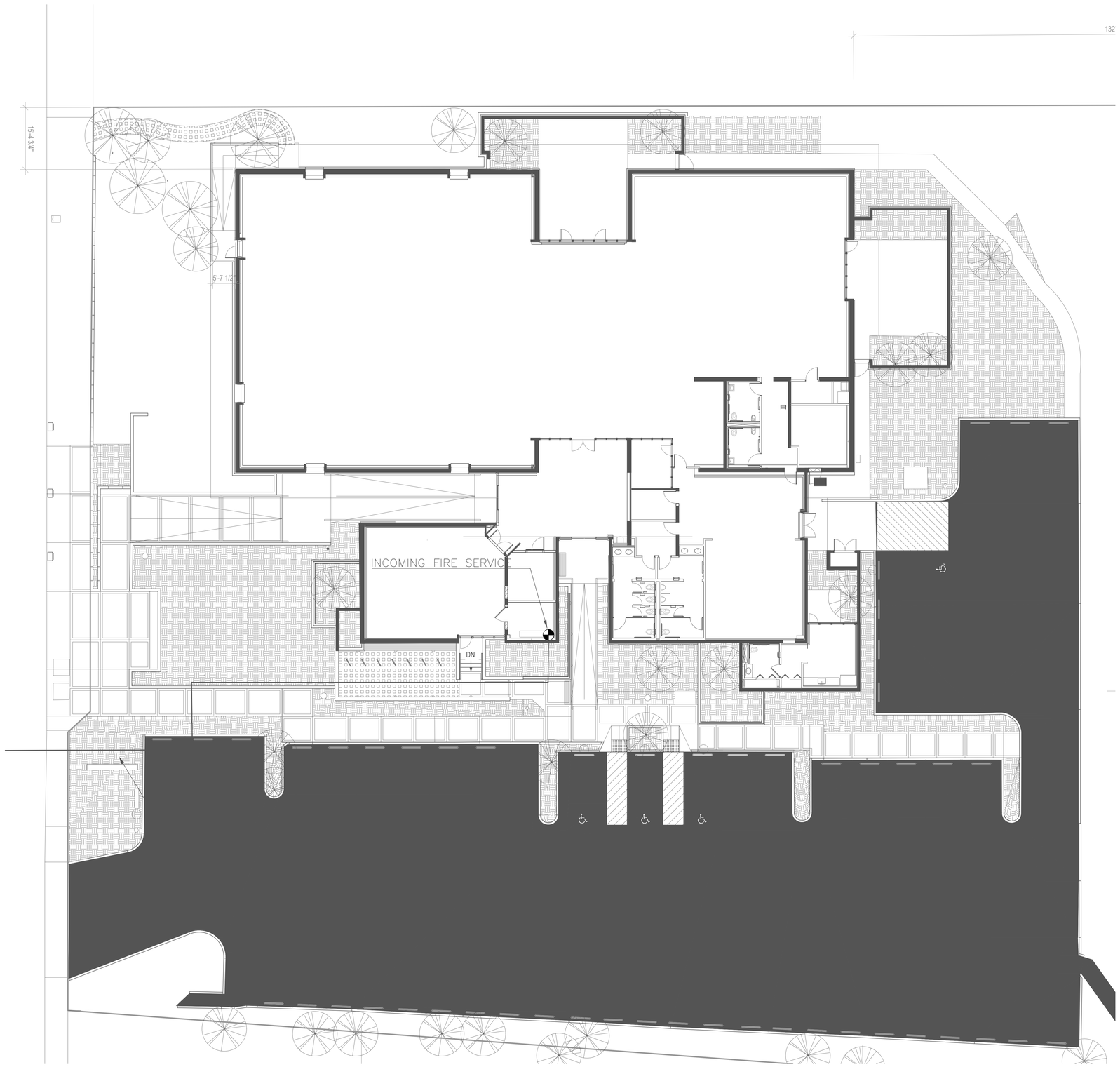

1 FS100 FIRE SPRINKLER SITE PLAN
SCALE: 3/32" = 1'-0"

NORTH

GOLETA LIBRARY

CITY OF GOLETA

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FIRE SPRINKLER SITE PLAN

Project No.: 24.05
Drawn By: Author
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Scale: 12" = 1'-0"

Sheet No.: FS100

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SPRINKLER SCHEDULE

SYM.	DESCRIPTION	MANUFACTURER	MODEL	K-FACTOR	TEMPERATURE RATING	SPRINKLER FINISH	ESCUTCHEON FINISH	SIN	QTY
⊛	QUICK-RESPONSE, CONCEALED PENDENT SPRINKLER	RELIABLE	G5-56	5.6	155°F	BRASS	WHITE	RA3415	149
⊠	QUICK-RESPONSE, SEMIRECESSED PENDENT SPRINKLER	RELIABLE	F1FR56	5.6	200°F	CHROME	CHROME	RA1414	32

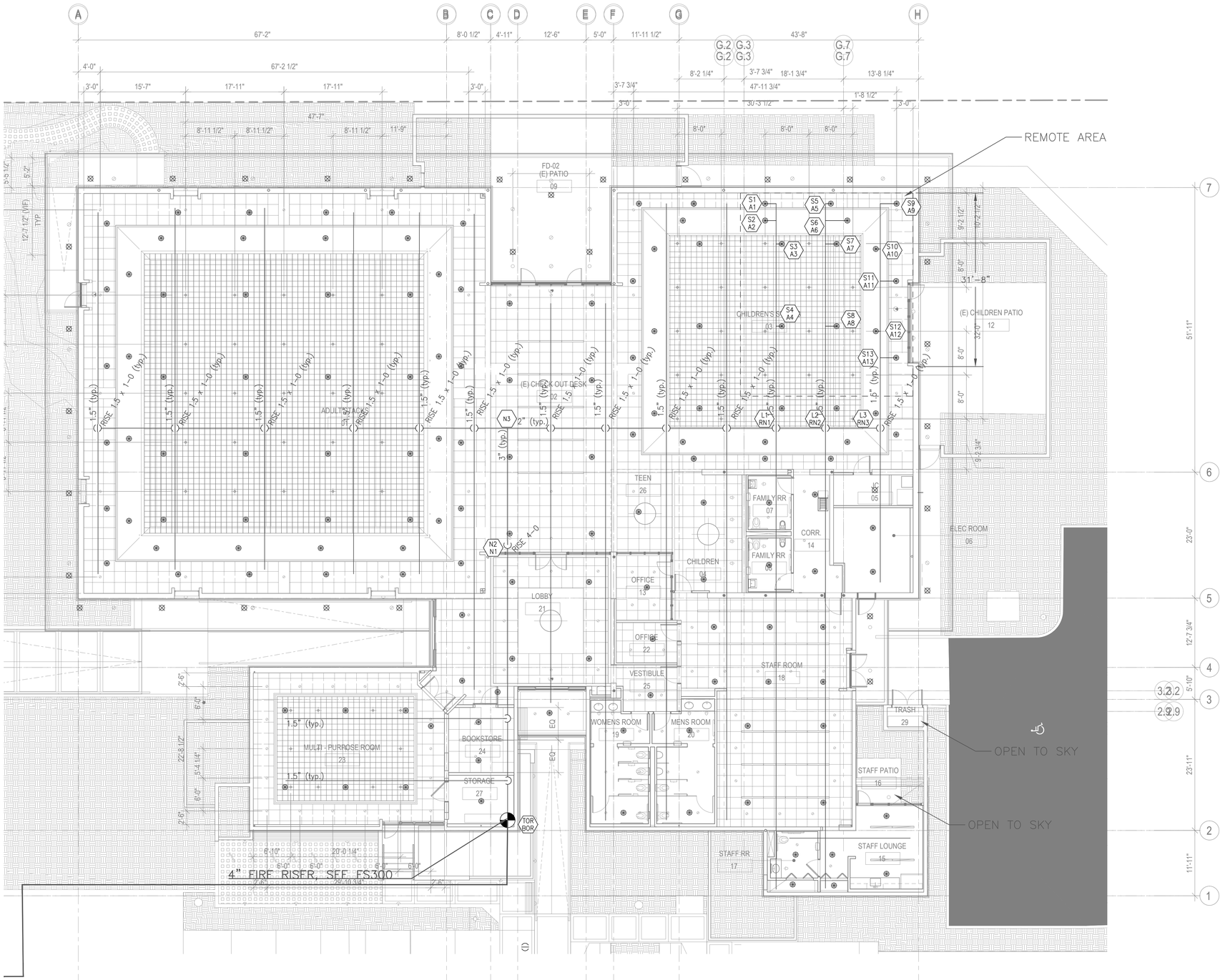
SHEET NOTES

1. MUNICIPAL LIBRARY TO BE PROTECTED AS LIGHT HAZARD OCCUPANCY, PER NFPA 13 2019 A4.3.2.
2. FIRE SPRINKLERS AT EXTERIOR OVERHANGS AND WATER HEATER CLOSET SHALL BE OF INTERMEDIATE TEMPERATURE OR GREATER. SPRINKLERS REQUIRED BENEATH ALL OVERHANGS OF 4'-0" OR GREATER.
3. FIRE SPRINKLERS AT OUTSIDE OVERHANG TO BE SUPPLIED FROM SPRINKLER SYSTEM WITHIN CONCEALED SPACE SOFFIT. SPRINKLERS SHOWN HERE WITHOUT PIPING FOR REFERENCE.
4. ALL ARMOVERS SHALL BE 1" SCHEDULE 40 STEEL. ARMOVERS SHOWN IN MOST REMOTE AREA; BUT OMITTED ELSEWHERE FOR CLARITY.

HYDRAULIC-SYSTEM

THIS BUILDING IS PROTECTED BY A HYDRAULICALLY DESIGNED AUTOMATIC SPRINKLER SYSTEM

LOCATION	CHILDRENS STACKS
NO. OF SPRINKLERS	13
BASIS OF DESIGN	
1. DENSITY	0.10 GPM/SQ. FT.
2. DESIGNED AREA OF DISCHARGE	1500 SQ.FT.
SYSTEM DEMAND	
1. GPM DISCHARGE	205.11 GPM
2. REQUIRED PRESSURE AT THE CITY WATER MAIN	45.81 PSI
3. SAFETY FACTOR	24.22 PSI



1 / FS200 FIRE SPRINKLER REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

NORTH

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FIRE SPRINKLER REFLECTED CEILING PLAN

Project No.:	24.05
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Scale:	12" = 1'-0"

Sheet No.:
FS200

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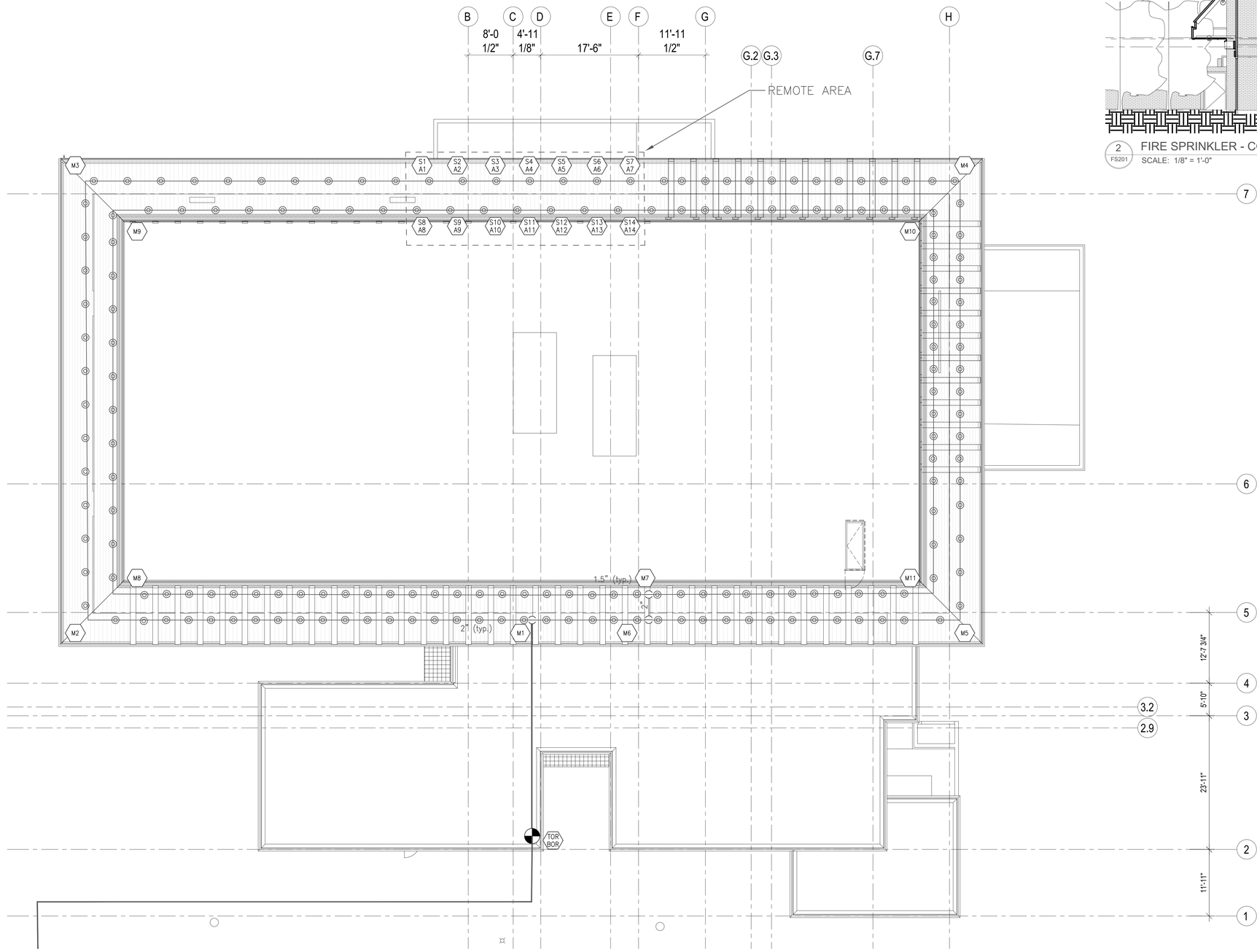
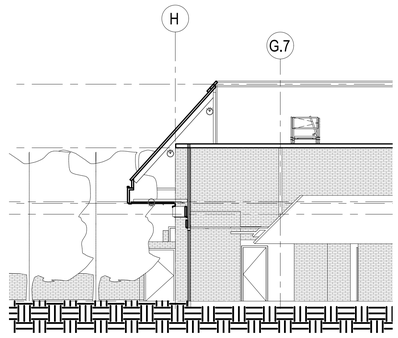
SPRINKLER SCHEDULE

SYM.	DESCRIPTION	MANUFACTURER	MODEL	K-FACTOR	TEMPERATURE RATING	SPRINKLER FINISH	ESCUTCHEON FINISH	SIN	QTY
◎	QUICK-RESPONSE, UPRIGHT SPRINKLER	RELIABLE	F1FR56	5.6	200°F	BRASS		RA1425	189



1 FS201 FIRE SPRINKLER - CONCEALED SPACE
SCALE: 1/8" = 1'-0"



2 FS201 FIRE SPRINKLER - CONCEALED SPACE SECTION (TYP)
SCALE: 1/8" = 1'-0"

HYDRAULIC-SYSTEM

THIS BUILDING IS PROTECTED BY A HYDRAULICALLY DESIGNED AUTOMATIC SPRINKLER SYSTEM

LOCATION	SOFFIT
NO. OF SPRINKLERS	14
BASIS OF DESIGN	
1. DENSITY	0.10 GPM/SQ. FT
2. DESIGNED AREA OF DISCHARGE	504 SQ. FT
SYSTEM DEMAND	
1. GPM DISCHARGE	347.69 GPM
2. REQUIRED PRESSURE AT THE CITY WATER MAIN	54.69 PSI
3. SAFETY FACTOR	15.98 PSI

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FIRE SPRINKLER CONCEALED SPACE PLAN

Project No.:	24.05
Drawn By:	Author
Checked By:	Checker
Scale:	12" = 1'-0"

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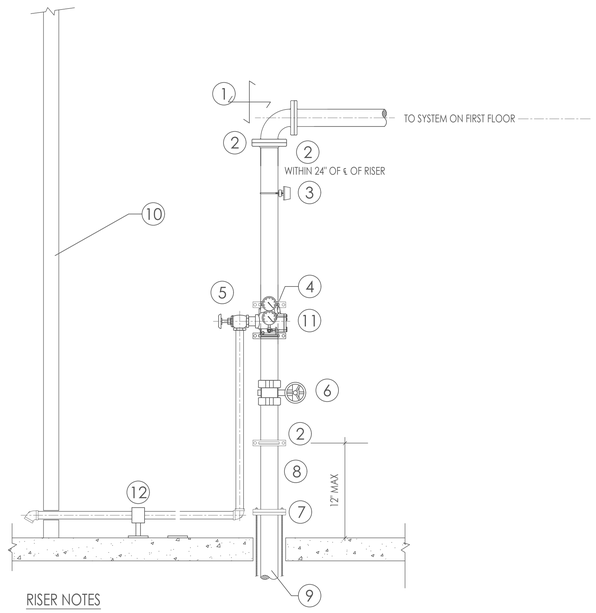
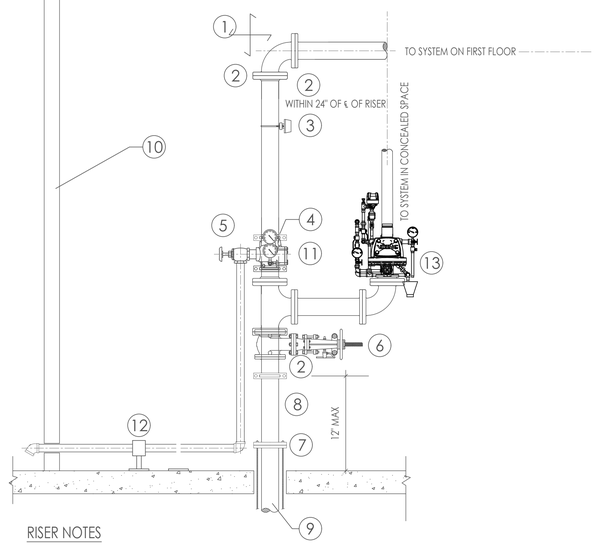


RISER NOTES

1. 4-WAY EARTHQUAKE BRACING WITHIN 24" OF RISER CENTER LINE
2. FLEXIBLE COUPLING
3. WATERFLOW SWITCH VANE TYPE POTTER VSR-4, CSFM 7770-0328:0001 OR EQUAL
4. 0-100 PSI GAGE WITH VALVE TEST PLUG AND 3/4" PRESSURE-RELIEF VALVE (PIPE TO EXTERIOR; VALVE AND PIPING NOT SHOWN).
5. 3/4" MAIN DRAIN, WITH CHECK VALVE AND ASSOCIATED PRESSURE GAUGES. GALVANIZED PIPE WITH DISCIPLINE TO EXTERIOR WITH 45° ELL.
6. CONTROL VALVE WITH SUPERVISORY SWITCH. POTTER 0SYSU-1, CSFM 7770-0328:0010 (UL BUTTERFLY VALVE WITH INTEGRATED CSPM LISTED SUPERVISORY SWITCH IS AN ACCEPTABLE SUBSTITUTION.) OR EQUAL
7. FLANGED CONNECTION TO UNDERGROUND WITH TIE RODS; SPRINKLER CONTRACTOR TO START AT FLANGED OUTLET AT BASE OF RISER.
8. 4" SPRINKLER RISER (BY OTHERS)
9. FIRE SERVICE STUB-UP
10. EXTERIOR WALL
11. CHECK VALVE
12. PIPE STAND (TOLCO B3088S SEISMIC BASE STAND WITH TOLCO FIG. 318A PIPE SADDLE) OR EQUAL



RISER NOTES

1. 4-WAY EARTHQUAKE BRACING WITHIN 24" OF RISER CENTER LINE
2. FLEXIBLE COUPLING
3. WATERFLOW SWITCH VANE TYPE POTTER VSR-4, CSFM 7770-0328:0001 OR EQUAL
4. 0-100 PSI GAGE WITH VALVE TEST PLUG AND 3/4" PRESSURE-RELIEF VALVE (PIPE TO EXTERIOR; VALVE AND PIPING NOT SHOWN).
5. 3/4" MAIN DRAIN, WITH CHECK VALVE AND ASSOCIATED PRESSURE GAUGES. GALVANIZED PIPE WITH DISCIPLINE TO EXTERIOR WITH 45° ELL.
6. CONTROL VALVE WITH SUPERVISORY SWITCH. POTTER 0SYSU-1, CSFM 7770-0328:0010 (UL BUTTERFLY VALVE WITH INTEGRATED CSPM LISTED SUPERVISORY SWITCH IS AN ACCEPTABLE SUBSTITUTION.) OR EQUAL
7. FLANGED CONNECTION TO UNDERGROUND WITH TIE RODS; SPRINKLER CONTRACTOR TO START AT FLANGED OUTLET AT BASE OF RISER.
8. 4" SPRINKLER RISER
9. FIRE SERVICE STUB-UP
10. EXTERIOR WALL
11. CHECK VALVE
12. PIPE STAND (TOLCO B3088S SEISMIC BASE STAND WITH TOLCO FIG. 318A PIPE SADDLE) OR EQUAL
13. DRY SPRINKLER RISER ASSEMBLY VIKING MODEL TYPE F WITH TRIM PACKAGE.

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FIRE SPRINKLER RISER

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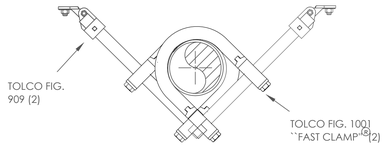
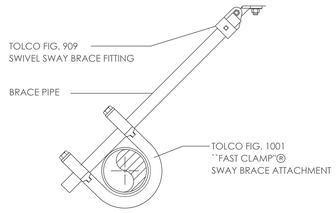


1 FAST CLAMP RISER BRACE
NO SCALE



2 LATERAL EARTHQUAKE BRACE
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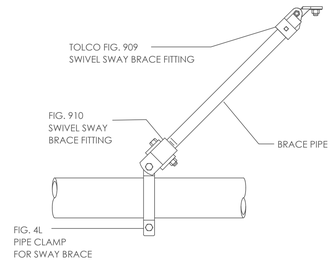
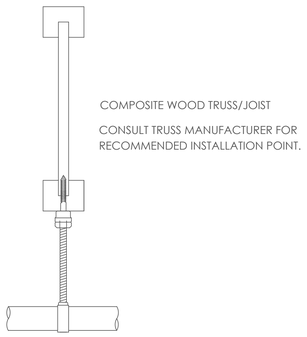


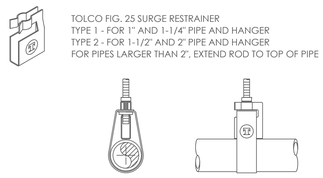
3 LONGITUDINAL EARTHQUAKE BRACE
NO SCALE

TJI SWAY BRACE ADAPTER FIG131



4 ROD AND RING HANGER
NO SCALE

ROD AND RING HANGER DETAIL



5 FIGURE 25 SURGE RESTRAINER
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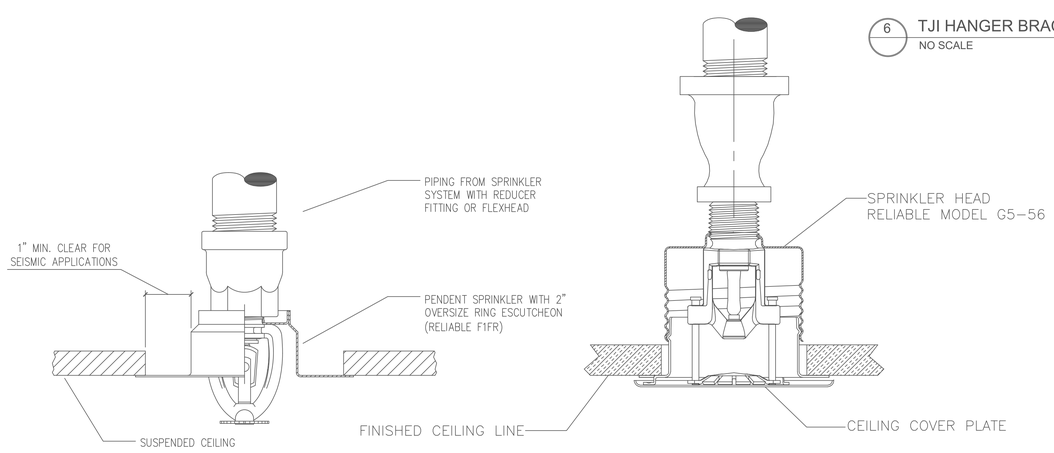

6 TJI HANGER BRACE
NO SCALE

7 FIRE SPRINKER HEAD DETAILS
NO SCALE

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FIRE SPRINKLER AND HANGER DETAILS

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HYDRAULIC CALCULATIONS FORTHCOMING

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FIRE SPRINKLER CALCULATIONS

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ELECTRICAL SYMBOL LIST

NOTE: This is a standard symbol list and not all items listed may be used.

Abbreviations

AFF	ABOVE FINISHED FLOOR
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AWG	AMERICAN WIRE GAUGE
A	AMPERES, AMBER
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AVAILABLE INTERRUPTING CAPACITY
BAS	BUILDING AUTOMATION SYSTEM
CLG	CEILING
C	CONDUIT, CLOSE, CONTROL
COORD	COORDINATE
CU	COPPER
(X)	DEMOLISH
DIA	DIAMETER
DIM	DIMENSION
DIV	DIVISION
DWG	DRAWING
EMT	ELECTRICAL METALLIC TUBING
E	EMERGENCY
EF	EXHAUST FAN
(E)	EXISTING
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FT	FOOT, FEET
(F)	FUTURE
G, GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
HH	HANDHOLE
ID	IDENTIFICATION
IN	INCH, INCHES
KVA	KILOVOLT AMPERES
KW	KILOWATT
LED	LIGHT EMITTING DIODE
LV	LOW VOLTAGE
MOCP	MAXIMUM OVERCURRENT PROTECTION
MIN	MINIMUM
MCA	MINIMUM CIRCUIT AMPS
MISC	MISCELLANEOUS
MT, MTD	MOUNT, MOUNTED
NEC	NATIONAL ELECTRIC CODE
NESC	NATIONAL ELECTRIC SAFETY CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
N	NEUTRAL
(N)	NEW
N/A	NOT APPLICABLE
N.I.C.	NOT IN CONTRACT
NTS	NOT TO SCALE
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
PNL	PANEL
PH	PHASE
PVC	POLY-VINYL-CHLORIDE
PWR	POWER
QTY	QUANTITY
REF	REFERENCE
(R)	RELOCATE
RFI	REQUEST FOR INFORMATION
REQD	REQUIRED
RM	ROOM
SHT	SHEET
STD	STANDARD
SPD	SURGE PROTECTION DEVICE
SWBD	SWITCHBOARD
TBD	TO BE DETERMINED
XFMR	TRANSFORMER
TYP	TYPICAL
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORIES
UPS	UNINTERRUPTIBLE POWER SUPPLY
UON	UNLESS OTHERWISE NOTED
VFD	VARIABLE FREQUENCY DRIVE
V	VOLTS, VOLTAGE
WP	WEATHERPROOF
W/	WITH
W/O	WITHOUT

Connections / Equipment

- COMBINATION MOTOR STARTER/FUSED DISCONNECT SWITCH
- HEAVY DUTY FUSED DISCONNECT SWITCH
- MOTOR CONNECTION
- NON-FUSED DISCONNECT SWITCH
- CEILING MOUNTED JUNCTION BOX
- FLOOR MOUNTED JUNCTION BOX
- WALL-MOUNTED JUNCTION BOX

General

- X / X — DETAIL NUMBER AND SHEET LOCATION
- XX-X / LOCATION — EQUIPMENT IDENTIFICATION
- 1 — KEYED NOTE
- DEMOLISH
- EXISTING WORK
- NEW WORK

Lighting

- EXIT SIGN CEILING MOUNTED, ARROW(S) INDICATES DIRECTION IF SHOWN
- EXIT SIGN WALL MOUNTED, ARROW(S) INDICATES DIRECTION IF SHOWN
- SURFACE OR PENDANT MOUNTED STRIPLIGHT
- AREA BOLLARD LUMINAIRE WITH CONCRETE BASE
- AREA LUMINAIRE ARM MOUNTED WITH POLE AND CONCRETE BASE. NUMBER OF HEADS AND CONFIGURATION INDICATED ON PLANS.
- AREA LUMINAIRE POLE TOP MOUNTED WITH POLE AND CONCRETE BASE.

Miscellaneous

- #10 / B-27,29,31. — BRANCH CIRCUIT WIRING. ARROW INDICATES HOME RUN TO PANEL WITH CIRCUITS AS NOTED. WIRE SIZE IS #12 AWG MINIMUM UNLESS NOTED OTHERWISE. SHORT TICK MARKS INDICATE PHASE CONDUCTORS. LONG TICK MARKS INDICATE NEUTRAL CONDUCTORS. A SINGLE CURVED TICK MARK INDICATES INSULATED GREEN GROUND CONDUCTOR. SECOND CURVED TICK MARK INDICATES "ISOLATED GROUND" (GREEN INSULATION WITH YELLOW STRIPE) CONDUCTOR.
- BRANCH PANEL
- CIRCUIT BREAKER
- FLUSH WALL MOUNTED BRANCH PANEL
- GROUNDING BUS BAR
- MAIN DISTRIBUTION PANEL / SUB DISTRIBUTION PANEL
- M — METER WITH CONNECTION

Raceways

- CONDUIT CONCEALED IN WALL OR CEILING SPACE
- CONDUIT ROUTED BELOW FLOOR / GRADE
- CONDUIT ELLED DOWN
- CONDUIT ELLED UP
- CONDUIT/WIRING CONTINUATION
- CONDUIT/WIRING STUBBED OUT WITH END CAP OR INSULATED PLASTIC BUSHING

Switches and Receptacles

- WALL-MOUNTED TOUCH SCREEN CONTROLLER
- DUPLEX RECEPTACLE (MULTIPLE LETTERS INDICATE MULTIPLE OPTIONS)
  A = ABOVE COUNTER
  B = CLOCK HANGER
  C = FLUSH CEILING MOUNTED
  E = EMERGENCY
  F = ARC FAULT PROTECTED BY BREAKER IN PANEL
  G = GROUND FAULT CIRCUIT INTERRUPTER
  H = HOSPITAL GRADE
  K = CHILD RESISTANT COVER
  L = ISOLATED GROUND
  P = PENDANT MOUNTED WITH CORD GRIPS. VERIFY PENDANT LENGTH
  R1 = HALF SWITCHED BY OCCUPANCY SENSOR RELAY
  R2 = FULLY SWITCHED BY OCCUPANCY SENSOR RELAY
  S = SPLIT WIRED
  T = TAMPER RESISTANT SHUTTERED RECEPTACLE
  U = USB PORT(S)
  W = WEATHERPROOF CONTINUOUS USE COVER, GFCI PROTECTED, WITH WEATHER-RESISTANT RECEPTACLE
- DUPLEX RECEPTACLE, FLUSH FLOOR
- DOUBLE DUPLEX RECEPTACLE, FLUSH FLOOR
- DOUBLE DUPLEX RECEPTACLE. SEE LETTER CODE LIST AT DUPLEX RECEPTACLE FOR OPTIONS
- SPECIAL PURPOSE RECEPTACLE. LETTER CODE DENOTES RECEPTACLE CONFIGURATION
  LX-XXR = NEMA CONFIGURATION TWIST-LOCK RECEPTACLE
  X-XXR = NEMA CONFIGURATION STRAIGHT BLADE RECEPTACLE
  P = PENDANT MOUNT WITH CORD GRIPS. VERIFY PENDANT LENGTH
  X = COORDINATE RECEPTACLE CONFIGURATION WITH EQUIPMENT BEING SUPPLIED
- CEILING MOUNTED OCCUPANCY SENSOR
  P = PASSIVE INFRARED
  D = DUAL TECHNOLOGY
  U = ULTRASONIC, 360 DEG RANGE
  H = ULTRASONIC, HALLWAY PATTERN
  v (LOWERCASE) = VACANCY CONTROL DESIGNATION
- WALL MOUNTED OCCUPANCY SENSOR
  P = PASSIVE INFRARED
  D = DUAL TECHNOLOGY
  v (LOWERCASE) = VACANCY CONTROL DESIGNATION
- WALL MOUNTED OCCUPANCY SENSOR/SWITCH
  S = PASSIVE INFRARED WITH INTEGRAL "OFF" SWITCH
  T = DUAL RELAY PASSIVE INFRARED WITH TWO INTEGRAL "OFF" SWITCHES
  D = PASSIVE INFRARED WITH INTEGRAL DIMMER TO OFF.
  v (LOWERCASE) = VACANCY CONTROL DESIGNATION
- SINGLE POLE SWITCH
  2 = DOUBLE POLE SWITCH
  3 = THREE-WAY SWITCH
  4 = FOUR-WAY SWITCH
  a THRU z (LOWERCASE) = LUMINAIRE CONTROL DESIGNATION
  D = DIMMER
  F = FAN SPEED CONTROL
  K = KEY OPERATED SWITCH
  L = LIGHTED HANDLE
  M = MANUAL-MOTOR STARTER WITH THERMAL OVERLOAD
  P = SWITCH WITH PILOT LIGHT
  S = SENTRY SWITCH
  T = INTERVAL TIMER
  W = WEATHERPROOF SWITCH
  V = LOW VOLTAGE SWITCH

SCOPE OF WORK

1. DEMOLISHED EXISTING MAIN SWITCHBOARD, PANELBOARDS, LIGHTING, AND LIGHTING CONTROL SYSTEM.
2. PROVIDE NEW ELECTRICAL DISTRIBUTION SYSTEM IN NEW ELECTRICAL ROOM TO SERVE NEW AND EXISTING LOADS.
3. PROVIDE NEW LIGHTING DESIGN AND LIGHTING CONTROL SYSTEM.
4. PROVIDE NEW POWER DEVICES IN RENOVATION AREAS AND RECONNECT EXISTING POWER DEVICES IN EXISTING AREAS.
5. PROVIDE POWER CONNECTION TO NEW HVAC AND PLUMBING EQUIPMENT.

SHEET INDEX

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E004	TITLE 24 - ELECTRICAL
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ED100	SITE DEMOLITION PLAN - ELECTRICAL
ED200	FIRST FLOOR DEMOLITION PLAN - ELECTRICAL
ED201	ROOF DEMOLITION PLAN - ELECTRICAL
E200	FIRST FLOOR PLAN - LIGHTING
E201	FIRST FLOOR PHOTOMETRIC CALCULATION - LIGHTING
E300	FIRST FLOOR PLAN - POWER
E301	ROOF PLAN - POWER
E400	ENLARGED PLANS - ELECTRICAL
E501	SINGLE LINE DIAGRAMS - ELECTRICAL
E601	SCHEDULES - ELECTRICAL
E700	DETAILS - ELECTRICAL

GENERAL ELECTRICAL NOTES

A. DO NOT COMMENCE INSTALLATION OF ELECTRICAL SYSTEMS AND EQUIPMENT WITHOUT RELATED SHOP DRAWING APPROVALS.

B. ELECTRICAL CIRCUITS SHALL BE INTERRUPTED ONLY WITH PRIOR WRITTEN CONSENT. SUCH INTERRUPTIONS SHALL BE PRECEDED BY ALL POSSIBLE PREPARATIONS BY THE CONTRACTOR WHICH ARE NECESSARY TO KEEP THE ELECTRICAL CIRCUITS OFF FOR A MINIMUM PERIOD IN AN EXPEDITIOUS MANNER PURSUANT WITH GOOD WORKMANSHIP. THIS INCLUDES CIRCUIT TRACING TO IDENTIFY THE ELECTRICAL LOAD BEING SERVED AND THE ORIGIN OF THE CIRCUIT.

C. COORDINATE WITH OWNER SO THAT WORK CAN BE SCHEDULED NOT TO INTERRUPT OPERATIONS, NORMAL ACTIVITIES, BUILDING ACCESS, ACCESS TO DIFFERENT AREAS. THE OWNER WILL COOPERATE TO THE BEST OF THEIR ABILITY TO ASSIST IN A COORDINATED SCHEDULE, BUT WILL REMAIN THE FINAL AUTHORITY AS TO TIME OF WORK PERMITTED.

D. COORDINATE THE EXACT LOCATION OF EXISTING UTILITIES AND EQUIPMENT PRIOR TO COMMENCEMENT OF WORK. COMPENSATE THE OWNER FOR DAMAGES CAUSED BY THE FAILURE TO LOCATE AND PRESERVE UTILITIES. REPLACE DAMAGED ITEMS WITH NEW MATERIAL TO MATCH EXISTING.

E. REMOVE EXISTING LUMINAIRES, SWITCHES, RECEPTACLES, AND OTHER ELECTRICAL EQUIPMENT AND DEVICES AND ASSOCIATED WIRING FROM WALLS, CEILINGS, FLOORS, AND OTHER SURFACES SCHEDULED FOR REMODELING, RELOCATION, OR DEMOLITION UNLESS SHOWN AS RETAINED OR RELOCATED ON DRAWINGS.

F. MAINTAIN ELECTRICAL CONTINUITY OF EXISTING SYSTEMS. REMOVE OR RELOCATE ELECTRICAL BOXES, CONDUIT, WIRING, EQUIPMENT, LUMINAIRES, AND THE LIKE, AS REQUIRED IN REMOVED OR REMODELED AREAS IN THE EXISTING CONSTRUCTION AFFECTED BY THIS WORK.

G. REMOVE AND RESTORE WIRING WHICH SERVES USABLE EXISTING OUTLETS CLEAR OF THE CONSTRUCTION OR DEMOLITION.

H. IF EXISTING JUNCTION BOXES WILL BE MADE INACCESSIBLE, OR IF ABANDONED OUTLETS SERVE AS FEED THROUGH BOXES FOR OTHER EXISTING ELECTRICAL EQUIPMENT WHICH IS BEING RETAINED, PROVIDE NEW CONDUIT AND WIRE TO BYPASS THE ABANDONED OUTLETS.

I. IF EXISTING CONDUITS PASS THROUGH PARTITIONS OR CEILING WHICH ARE BEING REMOVED OR REMODELED, PROVIDE NEW CONDUIT AND WIRE TO REROUTE CLEAR OF THE CONSTRUCTION OR DEMOLITION AND MAINTAIN SERVICE TO THE EXISTING LOAD.

J. CONCEALED CONDUIT LOCATED IN CONCRETE WALLS OR HARDBOARD CEILING SPACES MAY BE ABANDONED IN PLACE. REMOVE CONDUCTORS AND TAG ABANDONED CONDUITS WITH CORRESPONDING SYSTEM AND TERMINATION POINT. CUT AND CAP ABANDONED CONDUIT. DO NOT EXTEND STUBS ABOVE FINISHED FLOOR.

K. EXTEND CIRCUITING AND DEVICES IN EXISTING WALLS TO BE FURRED OUT.

L. PROVIDE TEMPORARY SUPPORT FOR ELECTRICAL SYSTEMS THAT REMAIN IN PLACE.

M. VERIFY EXACT LOCATION AND NUMBER OF EXISTING ELECTRICAL OUTLETS AND LUMINAIRES IN THE FIELD. LOCATIONS OF ITEMS SHOWN ON DRAWINGS AS EXISTING ARE PARTIALLY BASED ON RECORD AND OTHER DRAWINGS WHICH MAY CONTAIN ERRORS. VERIFY THE ACCURACY OF THE INFORMATION SHOWN PRIOR TO BIDDING AND PROVIDE SUCH LABOR AND MATERIAL AS IS NECESSARY TO ACCOMPLISH THE INTENT OF THE CONTRACT DOCUMENTS.

N. REMOVE ABANDONED WIRING TO LEAVE SITE CLEAN.

O. PROVIDE BLANK COVER PLATE FOR ABANDONED FLUSH OUTLETS.

P. EXISTING LIGHTING WHICH IS TO REMAIN OR BE RELOCATED IS TO BE RELAMPED, REBALLASTED, AND CLEANED. LEAVE ALL LUMINAIRES IN PROPER WORKING ORDER. REPLACE DAMAGED OR BROKEN LENS AND/OR COMPONENTS.

Q. MAINTAIN ACCESS TO EXISTING ELECTRICAL INSTALLATIONS WHICH REMAIN ACTIVE. MODIFY INSTALLATION OR PROVIDE ACCESS PANEL AS APPROPRIATE.

R. WHERE DRAWINGS INDICATE EXISTING ELECTRICAL EQUIPMENT OR DEVICES TO BE RELOCATED AND/OR REUSED, REFURBISH THEM. THOROUGHLY CLEAN SUCH ITEMS. NOTIFY ARCHITECT OF ANY DEFECTS IN SUCH INSTALLATIONS. REPAIR ANY DAMAGE CAUSED BY DEMOLITION OR CONSTRUCTION PERFORMED UNDER THIS CONTRACT.

S. PROVIDE UPDATED PANEL SCHEDULES AND DIRECTORIES THAT IDENTIFY EXISTING CIRCUITS AND NUMBER OF SPARE CIRCUITS AVAILABLE UPON COMPLETION OF DEMOLITION WORK.

T. OFFER REMOVED LUMINAIRES, WIRING DEVICES, PANELBOARDS AND EQUIPMENT TO THE OWNER. IF OWNER CHOOSES TO RETAIN THESE ITEMS, RETURN SUCH ITEMS TO OWNER. CAREFULLY REMOVE AND DISPOSE OF ITEMS REJECTED BY OWNER FROM PROJECT SITE AND IN A LEGAL MANNER.

U. RECONNECT EXISTING LUMINAIRES NOT SHOWN ON DRAWINGS AND AFFECTED DUE TO DEMOLITION TO NEAREST AVAILABLE EXISTING LIGHTING CIRCUIT ABLE TO TAKE THE ADDITIONAL LOAD.

V. PROVIDE SUITABLE ANCHORAGE AND SUPPORT FOR ELECTRICAL EQUIPMENT IN RATED WALLS, SLABS AND CEILINGS. MOUNT DEVICES AND RACEWAYS IN ACCORDANCE WITH ESTABLISHED CODES AND SPECIFICATIONS.

W. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

X. DRAWINGS AND SPECIFICATIONS COMPLIMENT EACH OTHER. REQUIREMENT BY EITHER INFERS REQUIREMENT BY BOTH.

Y. CONNECT EQUIPMENT AND DEVICES FURNISHED UNDER OTHER DIVISIONS OF THIS CONTRACT, BY OWNER OR BY OTHER CONTRACTS.

Z. UNLESS OTHERWISE NOTED, PROVIDE CONCEALED AND FLUSH MOUNTED INSTALLATION OF DEVICES AND EQUIPMENT IN AREAS.

AA. PROVIDE SEPARATE EQUIPMENT GROUNDING CONDUCTOR IN 120 VOLT, MULTI-WIRE CIRCUITS.

BB. FOR 120 VOLT, 20 AMP CIRCUITS, WHERE CIRCUIT DISTANCE FROM PANELBOARD TO FARTHEST DEVICE/FIXTURE EXCEEDS 75 FEET, PROVIDE #10 SIZE CONDUCTOR.

CC. RUN ELECTRICAL CONDUIT CONCEALED AND PARALLEL TO BUILDING LINES. VERIFY WITH ARCHITECT.

DD. RECEPTACLE OUTLETS SHALL COMPLY WITH CEC SECTION 210.7.

EE. LIGHTS, SWITCHES AND CONTROL MECHANISMS SHALL COMPLY WITH CEC SECTION 404.

FF. BRACE ELECTRICAL EQUIPMENT TO RESIST A HORIZONTAL FORCE THAT ACT IN ANY DIRECTION. COMPLY WITH TITLE 24 REQUIREMENTS.

GG. INSTALL COMPLETE SYSTEM OF CONDUCTORS IN RACEWAY SYSTEM THROUGHOUT BUILDING FOR FEEDERS, BRANCH CIRCUITS, ETC.

HH. INSTALLATION OF UTILITY SERVICE CONDUITS, VAULTS, GROUNDING, ETC., SHALL BE VERIFIED AND COORDINATED WITH UTILITY COMPANY PRIOR TO INSTALLATION. ALL WORK SHALL CONFORM WITH ALL UTILITY COMPANY RULES, REGULATIONS, AND STANDARDS. THE PROPOSED UTILITY COMPANY TRANSFORMER LOCATION, SERVICE FEEDER ROUTING, VAULT LOCATION AND SIZE ARE SUBJECT TO UTILITY COMPANY ENGINEERING, REVIEW AND APPROVAL. AT THE TIME OF THE ISSUANCE OF THESE DOCUMENTS, THIS ENGINEERING HAS NOT BEEN COMPLETED. CONTRACTOR SHALL COORDINATE AND VERIFY ALL THE NECESSARY UTILITY REQUIREMENTS FOR THIS PROJECT WITH UTILITY COMPANY PRIOR TO COMMENCING WORK.

II. ALL WORK ON SERVICE CONDUCTORS, FEEDERS, AND OTHER SUCH EQUIPMENT SHALL BE DONE ONLY WHEN SUCH CONDUCTORS, FEEDERS, AND EQUIPMENT ARE DE-ENERGIZED. THE CONTRACTOR SHALL HAVE AN "ELECTRICAL SAFETY AND LOCK-OUT/TAG-OUT PROCEDURE" IN PLACE PRIOR TO COMMENCEMENT OF WORK.

JJ. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL CONDUIT TRENCHING WITH OTHER DISCIPLINES AND THE UTILITY COMPANY TO AVOID CONFLICT.

KK. MINIMUM SIZE FOR EXTERIOR BELOW GRADE CONDUIT SHALL BE 1".

LL. OCCUPANCY SENSOR NOTES:
1. WALL SENSORS
   a. SENSOR MUST HAVE CLEAR "VIEW" OF OCCUPANTS. WHERE SENSOR WILL BE BLOCKED, SUBSTITUTE WITH SMALL-ROOM CEILING SENSOR.
2. SEE MANUFACTURER'S SPECIFICATION REGARDING PLACING SENSORS AWAY FROM STRONG AIR-FLOW. INDICATE PRECISE LOCATION OF EACH CEILING SENSOR WHERE DRAWINGS INDICATE AIR SUPPLIES.
3. IN INDIVIDUAL ROOMS WITH CEILING SENSORS AND DUAL-LEVEL LIGHTING, ASSUME TWO TOGGLE SWITCH OVERRIDES PER ROOM.
4. PRIOR TO INSTALLATION, RECEIVE FACTORY-TRAINING AND LAYOUT-ASSISTANCE. IF LOCAL AGENT CHANGES LIGHTING DRAWINGS, CONTACT FACTORY REPRESENTATIVE.

MM. PROVIDE ALL BACKBOXES, FLOOR BOXES, FLOOR TRENCH DUCT, GROUNDING SYSTEM, PULL BOXES, CONDUITS, CABLING, AND CABLE TRAYS PER TELECOM/AV/SECURITY DRAWINGS AND SPECIFICATIONS. REFER TO TELECOM/AV/SECURITY DRAWINGS FOR QUANTITY AND LOCATIONS. PROVIDE ALL APPURTENANCES FOR A COMPLETE INSTALLATION.

NN. PROVIDE DEFERRED APPROVAL AND DESIGN BUILD FOR ANY REQUIRED MODIFICATION TO THE EXISTING FIRE ALARM SYSTEM. SUBMIT COMPLETE DRAWINGS TO THE FIRE MARSHAL FOR APPROVAL AND ASSUME FULL RESPONSIBILITY OF THE SYSTEM, DEVICE QUANTITY AND LOCATION, WIRING, PROGRAMMING AND CONTROL PANELS. COORDINATE FINAL DEVICE LOCATIONS WITH THE ARCHITECT PRIOR TO ROUGH-IN.

OO. ALL AIC RATINGS SHOWN ARE MINIMUM REQUIREMENTS. COORDINATE AND UPGRADE RATINGS FOR ALL DISTRIBUTION EQUIPMENT AS PER SHORT CIRCUIT ANALYSIS RECOMMENDATIONS.

PP. ALL WORK TO COMPLY WITH 2022 CALIFORNIA ELECTRICAL CODE.

QQ. PROVIDE TESTING REPORTS TO ENGINEER FOR REVIEW UPON COMPLETION OF INSTALLATION FOR THE FOLLOWING, AS PART OF A DEFERRED SUBMITTAL IN CONSTRUCTION FOR REVIEW AND APPROVAL BY THE ENGINEER OF RECORD:
1. INSULATION RESISTANCE (MEGGER) TEST REPORTS PRIOR TO CONDUCTOR TERMINATION AND EQUIPMENT ENERGIZATION.
2. TORQUE TEST REPORTS PRIOR TO EQUIPMENT ENERGIZATION.

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Key Plan:

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REGISTERED PROFESSIONAL ENGINEER
WESLEY S. LAU
No. E22027
ELECTRICAL
STATE OF CALIFORNIA

Sheet Name:

SYMBOL LIST AND GENERAL NOTES - ELECTRICAL

Project No.: 24.05
Drawn By: Author
Checked By: Checker
Scale:

Sheet No.: E001

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	DESCRIPTION	LOCATION	MANUFACTURER	PART NUMBER	MOUNTING	FINISH NOTE	CCT	WATTAGE	LUMENS	DIMMING	VOLTAGE	NOTE
A	SUSPENDED/SURFACE MOUNTED BACK OF HOUSE UTILITY LED STRIP	BACK OF HOUSE	COLUMBIA	**LCL-4-30-ML-ED-U**	SURFACE OR SUSPENDED	WHITE	3500K	42	5,154	0-10V	UNV	
FD-01	RECESSED DOWNLIGHT - TRIMLESS - WIDE FLOOD	GENERAL	FOCAL POINT	**ID+3.5"**	RECESSED	WHITE	3500K	17W	1,484	0-10V	UNV	TUNABLE WHITE
FD-01A	RECESSED WALLWASHER - TRIMLESS - WIDEFLOOD	RESTROOMS	FOCAL POINT	**ID+3.5"**	RECESSED	TBD	3500K	19W	1,516	0-10V	UNV	TUNABLE WHITE
FD-02	RECESSED DOWNLIGHT - TRIMLESS EXTERIOR	EXTERIOR SOFFIT	FOCAL POINT	**ID+3.5"**	RECESSED	WHITE	3500K	10W	919LM	0-10V	UNV	RECESSED WITH TRIMLESS PLASTER RING
FD-03	SUSPENDED CYLINDER WALLWASHER-WIDEFLOOD	ADULT READING AREA	FOCAL POINT	**ID+ 3.5" WIDE FLOOD**	SUSPENDED	WHITE	3500K	25 W	2313LM			
FL-01	RECESSED LINEAR	STAFF ROOM	FOCAL POINT	**SEEM 1 FSM1-BW-625LF-35K-1C-UNV-L11-GRID-WH-LENGTH**	RECESSED	WHITE	3500K	6W/FT	625LM/FT	0-10V	UNV	RECESSED, 4' LENGTHS INSTALL DRIVERS OVER ACCESSIBLE CEILING
FP-01	SUSPENDED BIDIRECT LINEAR -DIMMABLE	STAFF ROOM	ALW	**SUPERPLANE 2.5**	SUSPENDED	TBD	3500K	11W/FT	1250LM/FT	0-10V	UNV	*CONFIRM MOUNTING AND LENGTHS PER DRAWING. CONFIRM ALL FINISHES.
FP-03	SUSPENDED DIRECT CIRCULAR	CHILDREN'S READING AREA	BUZZI LIGHT	**BUZZIJET**	SUSPENDED	PER INTERIORS	3500K	29W	2545 LM	0-10V	UNV	
FC-01	COVE LIGHT	THROUGHOUT	WAC	**INVISILED CCT T24-CSXX-LENGTH-2750-WT**	SURFACE	NA	SELECTABLE 27K/30K/35K/40K/50K	8.5W/FT MAX	1000LM/FT MAX	ELV 0-10V	24VDC	MOUNT IN COVE. PROVIDE ALL COMPONENTS FOR FULLY OPERATIONAL AND DIMMABLE SYSTEM.
FC-02	COVE LIGHT	READING AREAS / MULTI-PURPOSE ROOM	ALUZ	**ZAFU SNAKE A1-ZAFU-SNK-F-WH-35K-6W-10V-FEED-DRY-UNV-LENGTH**	SURFACE	WHITE	3500K	6W/FT	720LM/FT	0-10V	UNV	MOUNT IN COVE. LOCATE DRIVES IN ACCESSIBLE CEILING
FS-01	UNDERCABINET	STAFF LOUNGE	WAC	**INVISILED PRO 2 LED-TX2434-1-40-WT**	SURFACE	WHITE	3500K	4W/FT	330LM/FT	DIM	24VDC	
WS-01	WALL SCONE	FAMILY RESTROOM AND STAFF RESTROOM	MULLON	**NAKAII COLLECTION SKU : MLCMWL038**	SURFACE			6.5 W LED		STANDARD	120V	
EX-01	EXIT SIGN		ARCHITECTURAL SAFETY COMPONENTS	**LELU**	SURFACE	CUTOUT	NA	4w max		NA		PROVIDE ALL EXIT SIGNS IN RED
S-01	WALL LIGHT	MAIN ENTRY/ MULTIPURPOSE PATIO	SPJ	**SPJ SPJ-GDG-31WP**	SURFACE	BLACK	SELECTABLE 27K/30K/35K/40K	10W			120-277 V	
S-02	BOLLARD	SITE	TARGETTI	**Targetti Chiobo Bollard Light CBB-41-40-36-L3-27-BZ-MG With Base 1US40352BZ, and Jbox 1US2530**		BLACK	SELECTABLE 27K/30K/35K/40K	20W (360°)			120-277V	
S-03	AREA LIGHT	SITE	Landscape Forms	**Landscape Forms Motive Area Light AJ500 – LB-80F – 27K – UV1 – P2 – NTW – BRZ With Pole AJ550-10-01-BRZ**		BLACK		32W	2487			
S-04	DIRECTIONAL LIGHT	SITE	SPJ	**SPJ Directional Light SPJ-AL1-9W-MBR-9W-27K-12-15V-WAF With mounting canopy SPJ 19-01**	SURFACE	Matte Bronze		8W	580		12-15v	

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Key Plan:

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REGISTERED PROFESSIONAL ENGINEER WESLEY S. LAU No. E22027 ELECTRICAL STATE OF CALIFORNIA

Sheet Name:

LUMINAIRE SCHEDULE - ELECTRICAL

Project No.: 24.05

Drawn By: Author

Checked By: Checker

Scale: 12" = 1'-0"

Sheet No.: E002

10/10/2025 5:36:00 PM

NON-RESIDENTIAL LIGHTING CONTROL MATRIX: SPACE BY SPACE

SPACE NAME	TYPE OF CONTROLS	CONTROL FUNCTIONS
OFFICES <= 250 SQFT	ON/OFF/DIMMING SWITCH WITH INTEGRAL OCCUPANCY SENSOR	MANUAL ON/OFF/DIMMING CONTROL (ACESSIBLE TO USERS) OCCUPANCY SENSOR IN VACANCY MODE (TURN ON WITH MANUAL INPUT ONLY), AUTO-OFF AFTER 15 MINUTES OF VACANCY. PARTIAL-ON TO 50% POWER WHEN OCCUPANCY IS SENSED. AUTO-OFF AFTER 15 MINUTES OF VACANCY. LIGHTS CAN BE TURN ON TO 100% POWER VIA WALL SWITCH CONTROL RECEPTACLES REQUIRING PLUG LOAD CONTROL SHALL BE CONTROLLED BY LOCAL OCCUPANCY SENSOR IN SPACE.
OPEN OFFICE > 600 SQFT	ON/OFF/DIMMING SWITCH, OCCUPANCY SENSOR	MANUAL ON/OFF/DIMMING CONTROL (ACCESSIBLE TO USERS) EACH OCCUPANT SENSING CONTROLS SHALL BE CONFIGURED WITH ZONES UP TO, AND NOT GREATER THAN 600 SQFT. AFTER 15 MINUTES VACANCY IN EACH CONTROL ZONE, GENERAL LIGHTING TO DIM TO 20% POWER IN THAT CONTROL ZONE. OCCUAPNCY CONTROL TO AUTOMATICALLY SHUT-OFF GENERAL LIGHTING IN ALL CONTROL ZONES AFTER 15 MINUTES OF VACANCY IN THE ENTIRE SPACE. WHEN A CONTROL ZONE DETECTS OCCUPANCY, LIGHTS SHALL TURN ON TO 100% POWER, LIGHTING IN ALL OTHER CONTROL ZONES TO TURN ON LIGHTINS TO 20% POWER. RECEPTACLES REQUIRING PLUG LOAD CONTROL SHALL BE CONTROLLED BY LOCAL OCCUPANCY SENSOR IN SPACE.
MULTI-PURPOSE ROOMS < 1000 SQFT	ON/OFF/DIMMING SWITCH, OCCUPANCY SENSOR,	MANUAL ON/OFF/DIMMING CONTROL (ACCESSIBLE TO USERS) PARTIAL-ON TO 50% POWER WHEN OCCUPANCY IS SENSED, AUTO-OFF AFTER 15 MINUTES OF VACANCY. LIGHTS CAN BE TURN ON TO 100% POWER VIA WALL SWITCH CONTROL.
OFFICE KITCHEN AREA	ON/OFF/DIMMING SWITCH, OCCUPANCY SENSOR,	MANUAL ON/OFF/DIMMING CONTROL (ACCESSIBLE TO USERS) AUTO-ON TO 100% POWER WHEN OCCUPANCY IS SENSED, AUTO-OFF AFTER 15 MINUTES OF VACANCY. LIGHTING WITHIN DAYLIT ZONES TO BE AUTOMATICALLY DIMMED BY DAYLIGHT SENSOR. PROVIDE SEPARATE DAYLIGHT CONTROL FOR LUMINAIRES IN EACH TYPE OF DAYLIT ZONE (PRIMARY, SECONDARY, SKYLIT). RECEPTACLES REQUIRING PLUG LOAD CONTROL SHALL BE CONTROLLED BY LOCAL OCCUPANCY SENSOR IN SPACE.
CORRIDOR	ON/OFF/DIMMING SWITCH, OCCUPANCY SENSOR, AUTOMATIC TIMECLOCK,	MANUAL ON/OFF/DIMMING CONTROL (USE KEYED SWITCH, LOCATED WITHIN THE SAME ENCLOSED AREA) AUTO-ON TO 100% POWER WHEN OCCUPANCY IS SENSED, LIGHTS TO DIM TO 50% POWER AFTER 15 MINUTES OF VACANCY. ALL LIGHTING TO BE AUTOMATICALLY SHUT OFF WHEN BUILDING IS TYPICALLY UNOCCUPIED VIA TIMECLOCK CONTROL.
LOBBY	ON/OFF/DIMMING SWITCH, AUTOMATIC TIME CLOCK, OCCUPANCY SENSOR	MANUAL ON/OFF/DIMMING CONTROL (ACCESSIBLE TO USERS) LIGHTS TO TURN ON ONE HOUR BEFORE BUSINESS OPENING HOURS AND TURN OFF TWO HOURS AFTER BUSINESS IS CLOSED VIA TIME CLOCK SCHEDULE. AUTO-ON TO 100% POWER WHEN OCCUPANCY IS SENSED, LIGHTS TO DIM TO 50% POWER AFTER 20 MINUTES OF VACANCY. ALL LIGHTING TO BE AUTOMATICALLY SHUT OFF WHEN BUILDING IS TYPICALLY UNOCCUPIED VIA TIMECLOCK CONTROL.
RESTROOM (PUBLIC) - SINGLE STALL	ON/OFF SWITCH WITH INTEGRAL OCCUPANCY SENSOR	MANUAL ON/OFF CONTROL (ACCESSIBLE TO USERS) OCCUPANCY SENSOR IN VACANCY MODE (TURN ON WITH MANUAL INPUT ONLY), AUTO-OFF AFTER 15 MINUTES OF VACANCY.
RESTROOM (PUBLIC) - MULTI-STALL	ON/OFF SWITCH, OCCUPANCY SENSOR (ULTRASONIC TYPE ONLY)	MANUAL ON/OFF CONTROL (USE KEYED SWITCH, CONFIRM WITH CLIENT, LOCATED WITHIN THE SAME ENCLOSED AREA) AUTO-ON TO 100% POWER WHEN OCCUPANCY IS SENSED, AUTO-OFF AFTER 20 MINUTES OF VACANCY.
CLOSET	ON/OFF WITH INTEGRAL OCCUPANCY SENSOR	MANUAL ON/OFF CONTROL (ACCESSIBLE TO USERS) OCCUPANCY SENSOR IN VACANCY MODE (TURN ON WITH MANUAL INPUT ONLY), AUTO-OFF AFTER 15 MINUTES OF VACANCY.
ELECTRICAL ROOM	ON/OFF SWITCH	MANUAL ON/OFF CONTROL (ACCESSIBLE TO USERS)
LIBRARY STACK AISLE	ON/OFF/DIMMING SWITCH, OCCUPANCY SENSOR, AUTOMATIC TIME CLOCK,	MANUAL ON/OFF/DIMMING CONTROL (ACCESSIBLE TO USERS) AUTO-ON TO 100% POWER WHEN OCCUPANCY IS SENSED, LIGHTS TO DIM TO 50% POWER AFTER 15 MINUTES OF VACANCY. ALL LIGHTING TO BE AUTOMATICALLY SHUT OFF WHEN BUILDING IS TYPICALLY UNOCCUPIED VIA TIMECLOCK CONTROL. OCCUPANCY SENSOR CONTROLS SHALL INDEPENDENTLY CONTROL LIGHTING IN EACH AISLE.
ALL INTERIOR AREAS WITH EMERGENCY LIGHTING	EMERGENCY LIGHTING BYPASS RELAY (UL924)	EMERGENCY LIGHTING SHALL BE CONTROLLED WITH NORMAL LIGHTING IN SPACES WHERE EMERGENCY LIGHTING IS PROVIDED. DURING EMERGENCY EVENT, LIGHTING CONTROLS SHALL BE BYPASSED AND EMERGENCY LIGHTING SHALL TURN FULL ON. EMERGENCY LIGHTING INDICATED ON PLANS.
ALL INTERIOR AREAS	DEMAND RESPONSE CONTROLS	ALL LIGHTING IN AREAS WHERE LIGHTING POWER DENSITY EXCEEDS 0.5W/SF OR DIMMING CONTROLS ARE PROVIDED SHALL HAVE NETWORKED LIGHTING CONTROLS SUCH THAT A 15% REDUCTION IN LIGHTING POWER IS AUTOMATICALLY PROVIDED IN RESPONSE TO A DEMAND RESPONSE SIGNAL PER CEC 110.12.
ALL EXTERIOR LIGHTING	ASTRONOMICAL TIME-CLOCK, AUTOMATIC SCHEDULE CONTROLS,	ASTRONOMICAL TIME-CLOCK TO TURN ON ALL LIGHTING AT DUSK (SUNSET) AND TURN OFF ALL LIGHTING AT DAWN (SUNRISE). AUTOMATIC SCHEDULING TIME-CLOCK AT TURN ON LIGHTING DURING OPENING HOURS AND TURN OFF ALL LIGHTING [OR REDUCE LIGHTING POWER BY 50%] AT SCHEDULED UNOCCUPIED PERIODS.

GENERAL NOTES:
A. BASIS OF DESIGN IS NLIGHT WIRED.
B. DEMAND RESPONSE IS REQUIRED PER CA TITLE 24 FOR BUILDINGS WITH CONNECTED LIGHTING LOADS [OVER / UNDER] 4,000W.
C. REFER TO SPECIFICATION SECTION 26 09 25 IN CONJUNCTION WITH THIS SCHEDULE.
D. LIGHTING CONTROLS TO COMPLY WITH THE CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS, 2022 TITLE 24.
E. PROVIDE INITIAL START UP TRAINING WITH OWNER AND DESIGN TEAM, AND AN ADDITIONAL VISIT FOR ADJUSTMENTS ONCE AFTER OCCUPANCY.

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REGISTERED PROFESSIONAL ENGINEER
WESLEY S. LAU
No. E22027
ELECTRICAL
STATE OF CALIFORNIA

Sheet Name:
LIGHTING CONTROL MATRIX

Project No.: 24.05
Drawn By: Author
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Scale: 12" = 1'-0"

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E003

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STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-E
Project Name: Goleta Library	Report Page: (Page 1 of 6)
Project Address: 500 N Fairview Ave.	Date Prepared: 10/10/2025

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)	Goleta	02	Climate Zone	6
			03	Occupancy Types Within Project:	All Other OccupanciesLibraryOfficeRetailSupport 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
1000A, 120/208V, 3PH, 4W	New electrical service equipment and meter	360	☒	☐	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: Goleta Library	Report Page: (Page 2 of 6)
	Date Prepared: 10/10/2025

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.

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-E
Project Name: Goleta Library	Report Page: (Page 3 of 6)
	Date Prepared: 10/10/2025

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
1000A, 120/208V, 3PH, 4W					
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	E601	☐	☐
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	E601	☐	☐
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	Method 1: Switchboards, motor control centers, or panelboard loads disaggregated for each load type	E601	☐	☐

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-E
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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.*

[2] FOOTNOTES: For each separate load type, up to 10% of the connected load may be of any type.
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)4Bviic.

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
1000A, 120/208V, 3PH, 4W	☒	Voltage drop less than 5%	☐	Permitted by CA Elec Code (Exception to 130.5(c))*	In construction documents	E501	☐	☐

** 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
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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
Staff Room	Split-wired receptacle	Occupancy Sensor	NA: Building does not require demand responsive lighting controls per 110.12(c)	☒	E300	☐	☐
Office	Split-wired receptacle	Occupancy Sensor	NA: Building does not require demand responsive lighting controls per 110.12(c)	☒	E300	☐	☐

** 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

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Jason Lau	Documentation Author Signature:
Company:	Signature Date: 2025-10-10
Address: 601 South Figueroa Street, Suite 2750	CEA/ HERS Certification Identification (if applicable): E16806
City/State/Zip: Los Angeles CA 90017	Phone: 415-489-7244

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: Wesley Lau	Responsible Designer Signature:
Company: Interface Engineering	Date Signed: 2025-10-10
Address: 49 Stevenson Street, Suite 660	License: E22027
City/State/Zip: San Francisco CA 94105	Phone:

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-E
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Project Address: 500 N Fairview Ave.	Date Prepared: 10/10/2025

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Goleta Library	Report Page: (Page 1 of 9)
Project Address: 500 N Fairview Ave.	Date Prepared: 10/10/2025

This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor 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) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.

A. GENERAL INFORMATION

01	Project Location (city)	Goleta	04	Total Conditioned Floor Area (ft²)	15,380
02	Climate Zone	6	05	Total Unconditioned Floor Area (ft²)	0
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	1

● Library ● Office ● Retail ● Support Areas ● All Other Occupancies

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)2 / 180.2(b)4 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☒ New Lighting System	Area Category Method	15380	Area Category Method	0
☐ New Lighting System - Parking Garage				
Total Area of Work (ft²)	15380		0	

STATE OF CALIFORNIA
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C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)1 / 170.2(e)	Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)						Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts)				Compliance Results
	01	02	03	04	05		06	07		08	09
	Complete Building 140.6(c)1	Area Category 140.6(c)2 / 170.2(e)4	Area Category Additional 140.6(c)2G / 170.2(e)4Av (+)	Tailored 140.6(c)3 / 170.2(e)4B (+)			Total Designed (Watts)	Adjustments PAF Lighting Control Credits 140.6(a)2 / 170.2(e)1B (-)		**Total Adjusted** (Watts) *Includes Adjustments	**05 must be >= 08 140.6 / 170.2(e)**
	(See Table I)	(See Table I)	(See Table J)	(See Table K)			(See Table F)	(See Table P)			
Conditioned		11,137.8	2,345		=	13,483	≥ 11,662	0	=	11662	COMPLIES
Unconditioned					=		≥		=		
Controls Compliance (See Table H for Details)											COMPLIES
Rated Power Reduction Compliance (See Table Q for Details)											

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
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
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	Date Prepared: 10/10/2025

F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.

Designed Wattage: Conditioned Spaces

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change[1]	Watts per luminaire[2]	How is Wattage determined	Total Number of Luminaires	Excluded per 140.6(a)3 / 170.2(e)2C	Design Watts	Field Inspector	
									Pass	Fail
A	A - LED LINEAR	No	NA	36	Mfr. Spec	7	No	252	☐	☐
FC-01	FC-01 COVE LIGHT (8.5W/FT)	No	NA	8.5	Mfr. Spec	512	No	4,352	☐	☐
FD-01	FD-01 LED DOWNLIGHT	No	NA	17	Mfr. Spec	126	No	2,142	☐	☐
FD-03	FD-03 SUSPENDED CYLINDER	No	NA	25	Mfr. Spec	65	No	1,625	☐	☐
FD-1A	FD-1A LED WALLWASHER	No	NA	19	Mfr. Spec	11	No	209	☐	☐
FL-01	FL-01 RECESSED LINEAR (6W/FT)	No	NA	6	Mfr. Spec	24	No	144	☐	☐
FP-01	FP-01 LED LINAER (44W/4FT)	No	NA	44	Mfr. Spec	65	No	2,860	☐	☐
FP-03	FP-03 SUSPENDED CIRCULAR LED	No	NA	29	Mfr. Spec	2	No	58	☐	☐
WS-01	WS-01	No	NA	6.5	Mfr. Spec	3	No	19.5	☐	☐
Total Designed Watts: CONDITIONED SPACES								11,662		

[1] FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.
[2] Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

10/10/2025 5:36:03 PM

GOLETA LIBRARY

CITY OF GOLETA

500 N Fairview Ave
Goleta, CA 93117

Designer:
JM | A+D
516 N Sepulveda Blvd.
Manhattan Beach, CA 90266
(310) 684-3550
www.JMADstudio.com

Consultants:
kpff

Consultants:
UPLA STUDIO

Consultants:
INTERFACE ENGINEERING

Consultants:
JENSEN HUGHES

Issued For:

No.	Description:	Date:
	ISSUED FOR PERMIT	20 DEC 2024
	60% CONSTRUCTION DOCUMENTS	7 MAR 2025
	ISSUED FOR PERMIT	20 MAR 2025
	90% CONSTRUCTION DOCUMENTS	08 AUG 2025
	ISSUED FOR BID	13 OCT 2025

ISSUED FOR BID 13 OCT 2025

Key Plan:

Seal & Signature:
REGISTERED PROFESSIONAL ENGINEER WESLEY S. LAU No. E22027 ELECTRICAL STATE OF CALIFORNIA

Sheet Name:
TITLE 24 - ELECTRICAL

Project No.: 24.05
Drawn By: Author
Checked By: Checker
Scale: 12" = 1'-0"

Sheet No.:
E004

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
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	Date Prepared:	10/10/2025

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls

01	02	03	
		Field Inspector	
Mandatory Demand Response 110.12(c)	Shut-off controls 130.1(c) / 160.5(b)4C	Pass	Fail
Required >= 4,000W subject to multilevel	Whole Building Auto Time Switch	☐	☐

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Manual 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/Skylit Daylighting 130.1(d) / 160.5(b)4D	Secondary Daylighting 130.1(d) / 160.5(b)4D	Interlocked Systems 140.6(a)1/ 170.2(e)2A	Field Inspector	
								Pass	Fail
Utility Room	Electrical Mechancial Telephone Room	Readily Accessible	NA: General Ltg <= 0.5W/SF	NA: Elec. equip. rm	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐
Restroom	Restroom	Readily Accessible	NA: Restrooms	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐
Corridor	Corridor	Readily Accessible	Dimmer	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐
Lobby	Main Entry Lobby	Readily Accessible	Dimmer	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐
Office	Office (<=250 square feet)	Readily Accessible	Dimmer	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐
Open Office	Office (<=250 square feet)	Readily Accessible	Dimmer	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐
Library Children Reading	Library - Reading Area	Readily Accessible	Dimmer	Occupancy Sensor	Included	NA: Skylight shaded	No	☐	☐
Library	Library - Stacks	Readily Accessible	Dimmer	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
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	Date Prepared:	10/10/2025

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Multipurpose	Convention, Conference, Multipurpose and Meeting Center	Readily Accessible	Dimmer	Occupancy Sensor	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐
Bookstore	Retail Merchandise Sales	Readily Accessible	Dimmer	Auto. Time Switch	NA: Rm < 24sf Glazing	NA: Rm < 24sf Glazing	No	☐	☐
						13			
						Plan Sheet Showing Daylit Zones:			

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(a) are being used .

Conditioned Spaces

01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment	
					Area Category	PAF
Utility Room	Electrical Mechancial Telephone Room	0.4	205	82	No	No
Restroom	Restroom	0.65	670	435.5	No	No
Corridor	Corridor	0.4	237	94.8	No	No
Lobby	Main Entry Lobby	0.7	1,821	1,274.7	No	No
Office	Office (<=250 square feet)	0.65	207	134.6	No	No
Open Office	Office (>250 square feet)	0.6	1,148	688.8	No	No
Lounge	Lounge	0.55	1,384	761.2	No	No
Multipurpose	Convention, Conference, Multipurpose and Meeting Center	0.75	939	704.2	Yes	No
Library	Library - Reading Area	0.8	8,442	6,753.6	Yes	No
Storage	All Other Space Types	0.4	186	74.4	No	No
BOOKSTORE	Retail Merchandise Sales	0.95	141	134	No	No

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Goleta Library	Report Page:	(Page 6 of 9)
Project Address: 500 N Fairview Ave.	Date Prepared:	10/10/2025

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

TOTALS:	15,380	11,137.8	See Tables J, or P for detail

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

All areas indicated in Table I as using an additional allowance using the Area Category Method have been included in this table to calculate the additional allowance per Table 140.6-C /170.2-M

Conditioned Spaces

01	02	03	04	05	06	07	08	09	10
Area Description	Primary Function Area	Applicable Qualifying Lighting System from Table 140.6-C	Allowed Density (W/ft² or W/lf or W/unit)	Ltg Area, Length or ATM/Mirror (ft², lf or #)	Extra Allowance (Watts)	Luminaire Name or Item Tag	Watts per Luminaire	Number of Luminaires	Total Design Watts
Multipurpose	Convention, Conference, Multipurpose and Meeting Center	DecorativeDisplay A	0.25	939	234.8	FC-01	8.5	91	773.5
Total Design Watts	Calculated Allowance (Watts):	Total Additional Allowance for this area:							
773.5	234.8	234.8							
Library	Library - Reading Area	DecorativeDisplay A	0.25	8442	2110.5	FC-01	8.5	178	1513
						FC-01	8.5	243	2065.5
Total Design Watts	Calculated Allowance (Watts):	Total Additional Allowance for this area:							
3578.5	2110.5	2110.5							
11									
Total Additional Allowance (Watts) CONDITIONED SPACES		2345							

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

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	Date Prepared:	10/10/2025

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS

This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS

This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Goleta Library	Report Page:	(Page 8 of 9)
	Date Prepared:	10/10/2025

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. DWELLING UNIT LIGHTING

This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selections 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-LTI-E - Must be submitted for all buildings

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

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 in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "-A" in the form name 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-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	Whole Building Time Switch; Restroom; Corridor; Lobby; Office; Open Office; Library Children Reading; Library; Multipurpose; Bookstore;
NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	Library Children Reading;
NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	Whole Building Demand Response;

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: Goleta Library	Report Page:	(Page 9 of 9)
Project Address: 500 N Fairview Ave.	Date Prepared:	10/10/2025

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Jason Lau	Documentation Author Signature:
Company:	Signature Date: 2025-10-10
Address: 601 South Figueroa Street, Suite 2750	CEA/ HERS Certification Identification (if applicable): E16806
City/State/Zip: Los Angeles CA 90017	Phone: 415-489-7244

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: Wesley Lau	Responsible Designer Signature:
Company: Interface Engineering	Date Signed: 2025-10-10
Address: 49 Stevenson Street, Suite 660	License: E22027
City/State/Zip: San Francisco CA 94105	Phone:

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: Goleta Library	Report Page:	(Page 1 of 9)
Project Address: 500 N Fairview Ave.	Date Prepared:	10/10/2025

This document is used to demonstrate compliance with requirements in 110.9, 130.0, 130.2, 140.7, and 141.0(b)2I 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)	Goleta	04	Total Illuminated Hardscape Area (ft²)	1000
02	Climate Zone	6			
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				

● Library ● Office ● Retail ● 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)2I / 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.

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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		06		07		08	09
General Hardscape Allowance 140.7(d1) / 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
243	+	60	+	---	+	---	+	284	OR	---	=	587	≥	538	COMPLIES
Shielding Compliance (See Table G for Details)												N/A			
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.

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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)1[4]	Field Inspector	
										Pass	Fail
FD-01	FD-01 LED DOWNLIGHT	☐ Linear	17	Mfr. Spec	2	New	☐	34	NA: < 6200 lumens	☐	☐
FD-02	FD-02 LED DOWNLIGHT	☐ Linear	10	Mfr. Spec	31	New	☐	310	NA: < 6200 lumens	☐	☐
S-01	S-01 Wall Light	☐ Linear	6	Mfr. Spec	13	New	☐	78	NA: < 6200 lumens	☐	☐
S-02	S-02 BOLLARD	☐ Linear	20	Mfr. Spec	1	New	☐	20	NA: < 6200 lumens	☐	☐
S-03	S-03 AREA LIGHT	☐ Linear	32	Mfr. Spec	3	New	☐	96	NA: < 6200 lumens	☐	☐
S-04	S-04 DIRECTION LIGHT	☐ Linear	8	Mfr. Spec	3	New	☒	---	NA: < 6200 lumens	☐	☐
							Total Design Watts:	538			

* 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.

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ISSUED FOR BID 13 OCT 2025

Key Plan:

Seal & Signature:
REGISTERED PROFESSIONAL ENGINEER WESLEY S. LAU No. E22027 INTERFACE ENGINEERING STATE OF CALIFORNIA

Sheet Name:
TITLE 24 - ELECTRICAL

Project No.: 24.05
Drawn By: Author
Checked By: Checker
Scale: 12" = 1'-0"

Sheet No.:
E005

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CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
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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)2I, 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)*

G. SHIELDING REQUIREMENTS (BUG)

This section does not apply to this project.

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
Canopy	Astronomical Timer	Provided	NA: Each Luminaire <= 40 Watts	☐	☐
Landscape	Astronomical Timer	Provided	NA: Each Luminaire <= 40 Watts	☐	☐

[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.*

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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)	
Exterior pathway	1000	0.019	19	160	0.2	24	43
					Initial Wattage Allowance for Entire Site (Watts):		200
					Instances of Initial Wattage Allowance (LZ 0 only)[1]		
					Total General Hardscape Allowance (Watts):		243

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J. LIGHTING ALLOWANCE: PER APPLICATION

This table includes areas using the wattage allowance per application from Table 140.7-B / Table 170.2-S.

01	02	03	04	05	06	07	08	09	10
Area Description	Application per Table 140.7-B[1]	CALCULATED ALLOWANCE (Watts)			DESIGN WATTS				Additional Allowance (Watts)
		# of Locations	Allowance per Location[2]	Extra Allowance (Watts)	Luminaire Name or Item Tag	Watts per Luminaire	# of Luminaires	Design Watts	
Entrance	Building Entrance/Exit	4	15	60	FD-02	10	6	60	60
							Total Design Watts for this Area:	60	
								Total Allowance (Watts) All Areas:	60

[1] *FOOTNOTES: Primary entrance applications are only available for senior care facilities, healthcare facilities, police stations, hospitals, fire stations, and emergency vehicle facilities.*
[2] *The Allowance per Location for ATMs is 100W for the first ATM and 35W for each additional per Table 140.7-B /Table 170.2-S.*
[3] *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.*

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

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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 nat 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	
Canopy	NonSalesCanopy	2500	0.1	342.5	FD-02	10	25	250	284
					FD-01	17	2	34	
							Total Design Watts for this Area:	284	
								Total Allowance (Watts) All Areas:	284

[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.

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

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	Date Prepared:	10/10/2025

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.	Canopy; Landscape;

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CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: Goleta Library	**Report Page:**	(Page 9 of 9)
Project Address: 500 N Fairview Ave.	**Date Prepared:**	10/10/2025

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Jason Lau	Documentation Author Signature:
Company:	Signature Date: 2025-10-10
Address: 601 South Figueroa Street, Suite 2750	CEA/ HERS Certification Identification (if applicable): E16806
City/State/Zip: Los Angeles CA 90017	Phone: 415-489-7244

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: Wesley Lau	Responsible Designer Signature:
Company: Interface Engineering	Date Signed: 2025-10-10
Address: 49 Stevenson Street, Suite 660	License: E22027
City/State/Zip: San Francisco CA 94105	Phone:

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	ISSUED FOR BID	13 OCT 2025

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Key Plan:

Seal & Signature:

REGISTERED PROFESSIONAL ENGINEER
WESLEY S. LAU
No. E22027
ELECTRICAL
STATE OF CALIFORNIA

Sheet Name:
TITLE 24 - ELECTRICAL

Project No.: 24.05
Drawn By: Author
Checked By: Checker
Scale: 12" = 1'-0"

Sheet No.:
E006

GENERAL SHEET NOTES

A. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF LUMINAIRES AND LIGHTING CONTROLS WITH ARCHITECT PRIOR TO INSTALLATION.

SHEET KEYNOTES

1. PROVIDE ASTRONOMICAL TIME CLOCK CONTROL FOR EXISTING PARKING LOT LIGHTING AND SIGNAGE LIGHTING. CONTRACTOR TO VERIFY EXISTING CIRCUIT NUMBER AND EXTEND CIRCUIT TO NEW PANEL FOR POWER CONNECTION.

NORTH

1 OVERALL SITE PLAN - ELECTRICAL

0' 8' 16' 24'

3/32" = 1'-0"

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	ISSUED FOR BID	13 OCT 2025

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Sheet Name:

OVERALL SITE PLAN - ELECTRICAL

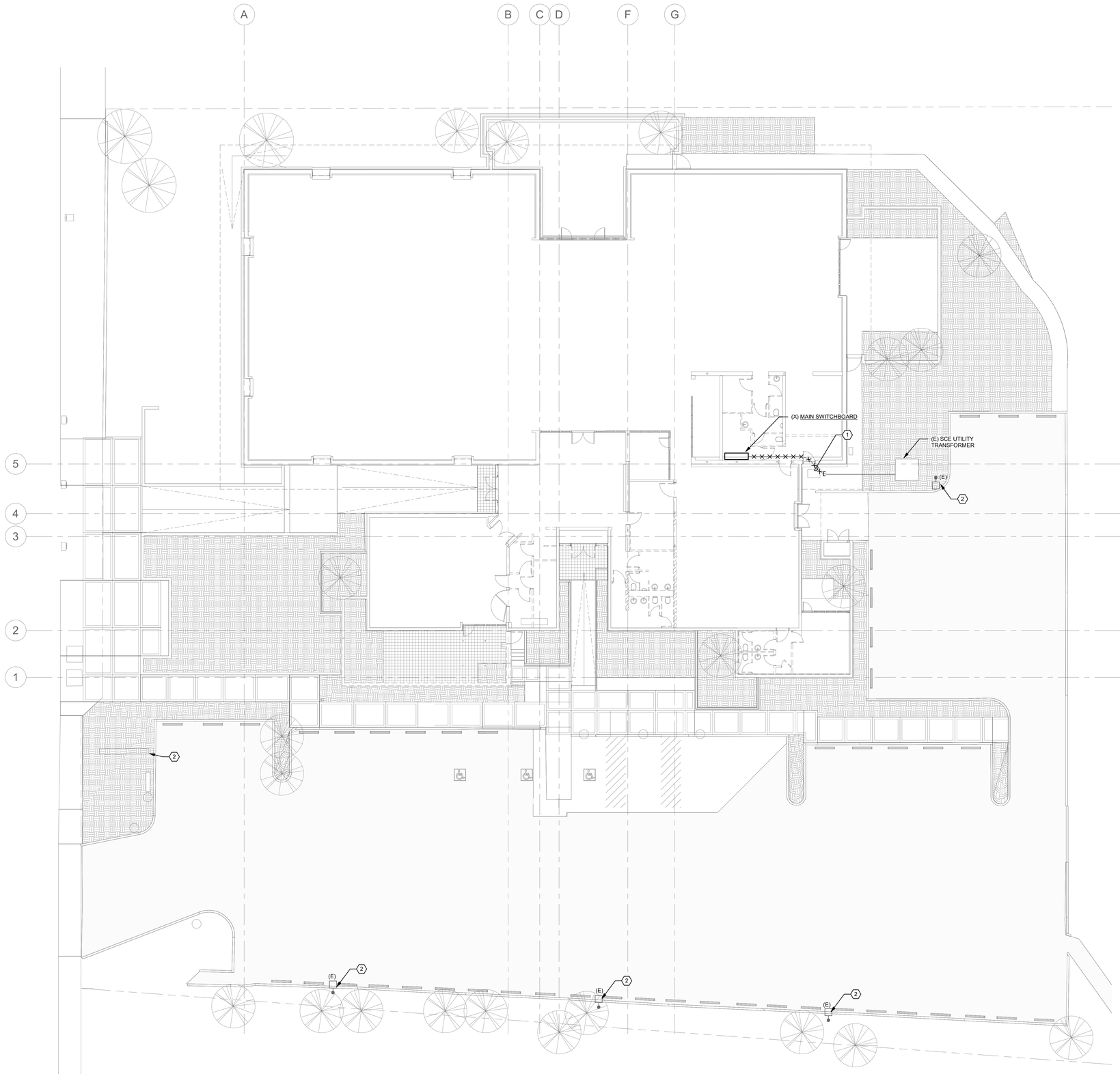
Project No.: 24.05

Drawn By: Author

Checked By: Checker

Scale: 3/32" = 1'-0"

Sheet No.: E100



1 FIRST FLOOR DEMOLITION PLAN - ELECTRICAL

0' 8' 16' 24'

3/32" = 1'-0"

GENERAL SHEET NOTES

A. ALL EXISTING UNDERGROUND UTILITIES MAY NOT BE SHOWN. CONTRACTOR TO VERIFY ALL EXISTING UNDERGROUND UTILITIES AND DUCTLINE PRIOR TO EXCAVATION. DAMAGES TO EXISTING UNDERGROUND UTILITIES AND/OR DUCTLINE SHALL BE REPAIRED AT NO COST TO THE OWNER.

SHEET KEYNOTES

1. PARTIALLY REMOVE EXISTING SERVICE CONDUIT AS SHOWN AND PROVIDE NEW SERVICE FEEDER TO NEW SWITCHBOARD. SEE SHEET E100 & E500 FOR ADDITIONAL INFORMATION.
2. EXISTING EXTERIOR LUMINAIRE TO REMAIN.

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No. E22027
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Sheet Name:
SITE DEMOLITION PLAN - ELECTRICAL

Project No.: 24.05	Sheet No.: ED100
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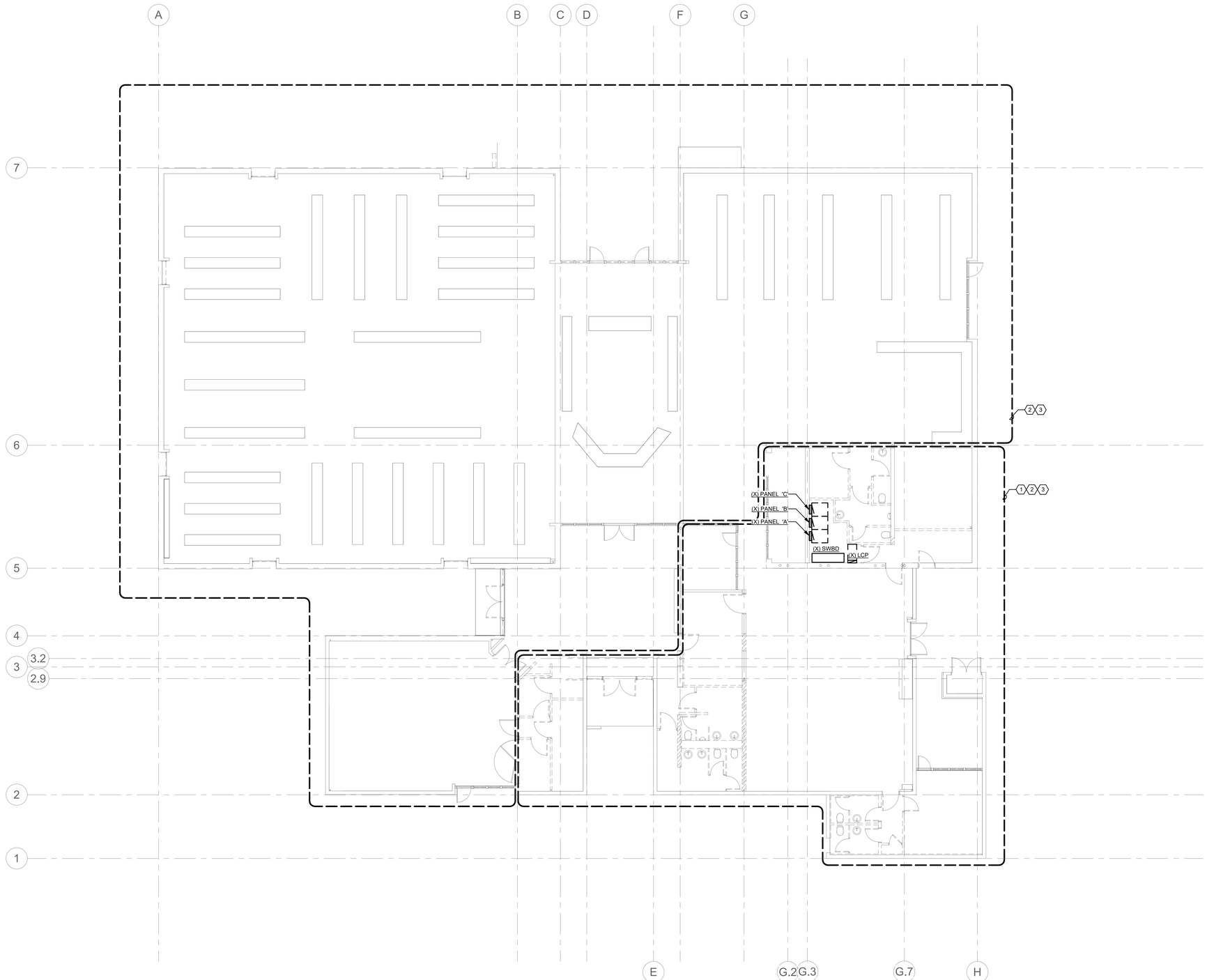
Checked By: Checker	
Scale: 3/32" = 1'-0"	

10/10/2025 5:36:14 PM

SHEET KEYNOTES

1. DEMOLISH EXISTING RECEPTACLES, JUNCTION BOXES, AND ASSOCIATED RACEWAY AND WIRING BACK TO SOURCE PANELBOARD.
2. DEMOLISH EXISTING LUMINAIRES, SWITCHES, SENSORS, AND ASSOCIATED RACEWAY AND WIRING BACK TO SOURCE PANELBOARD.
3. DISCONNECT POWER TO EXISTING HVAC AND PLUMBING EQUIPMENT TO BE REMOVED, AND REMOVE DISCONNECT SWITCHES, RACEWAY AND WIRING BACK TO SOURCE.



1 FIRST FLOOR DEMOLITION PLAN - ELECTRICAL

0' 4' 8' 16'

1/8" = 1'-0"

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	90% CONSTRUCTION DOCUMENTS	08 AUG 2025
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Seal & Signature:

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No. E22027
ELECTRICAL
STATE OF CALIFORNIA

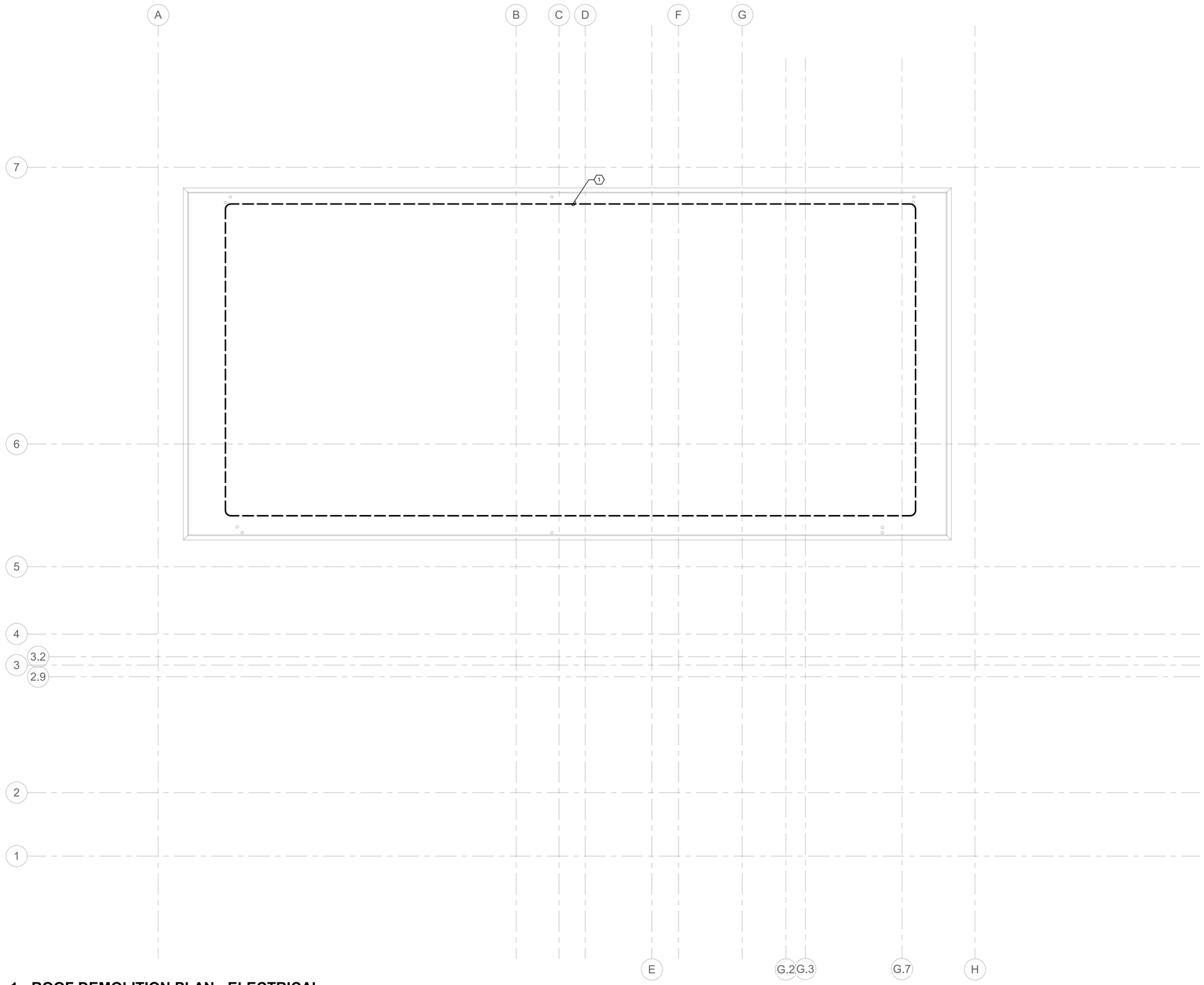
Sheet Name:

FIRST FLOOR DEMOLITION PLAN - ELECTRICAL

Project No.:	Sheet No.:
24.05	ED200
Drawn By: Author	
Checked By: Checker	
Scale: 1/8" = 1'-0"	

SHEET KEYNOTES

1. DISCONNECT POWER TO EXISTING HVAC AND PLUMBING EQUIPMENT TO BE REMOVED, AND REMOVE DISCONNECT SWITCHES, RACEWAY AND WIRING BACK TO SOURCE.



1 ROOF DEMOLITION PLAN - ELECTRICAL

0' 4' 8' 16'

1/8" = 1'-0"

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Key Plan:

Seal & Signature:

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ROOF DEMOLITION PLAN - ELECTRICAL

Project No.:	Sheet No.:
24.05	ED201
Drawn By: Author	
Checked By: Checker	
Scale: 1/8" = 1'-0"	

GENERAL SHEET NOTES

A. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF LUMINAIRES AND LIGHTING CONTROLS WITH ARCHITECT PRIOR TO INSTALLATION.

B. PROVIDE ALLOWANCES FOR EMERGENCY LIGHTING ALONG EGRESS PATHS AS INDICATED ON ARCHITECTURAL LIFE SAFETY PLANS. PROVIDE ALLOWANCE FOR EMERGENCY LIGHTING RELAY, ONE PER SWITCH LEG WITHIN ROOM SPACE AND/OR AREA WITH EMERGENCY LIGHTING.

C. EMERGENCY LUMINAIRES SWITCHED/DIMMED WITH NORMAL LUMINAIRES IN SPACE AND SHALL OPERATE ON 100% FULL OUTPUT WHEN OPERATING ON EMERGENCY POWER. PROVIDE UL924 RELAY DEVICE FOR EMERGENCY CIRCUIT TO BYPASS CONTROLS DURING POWER OUTAGE.

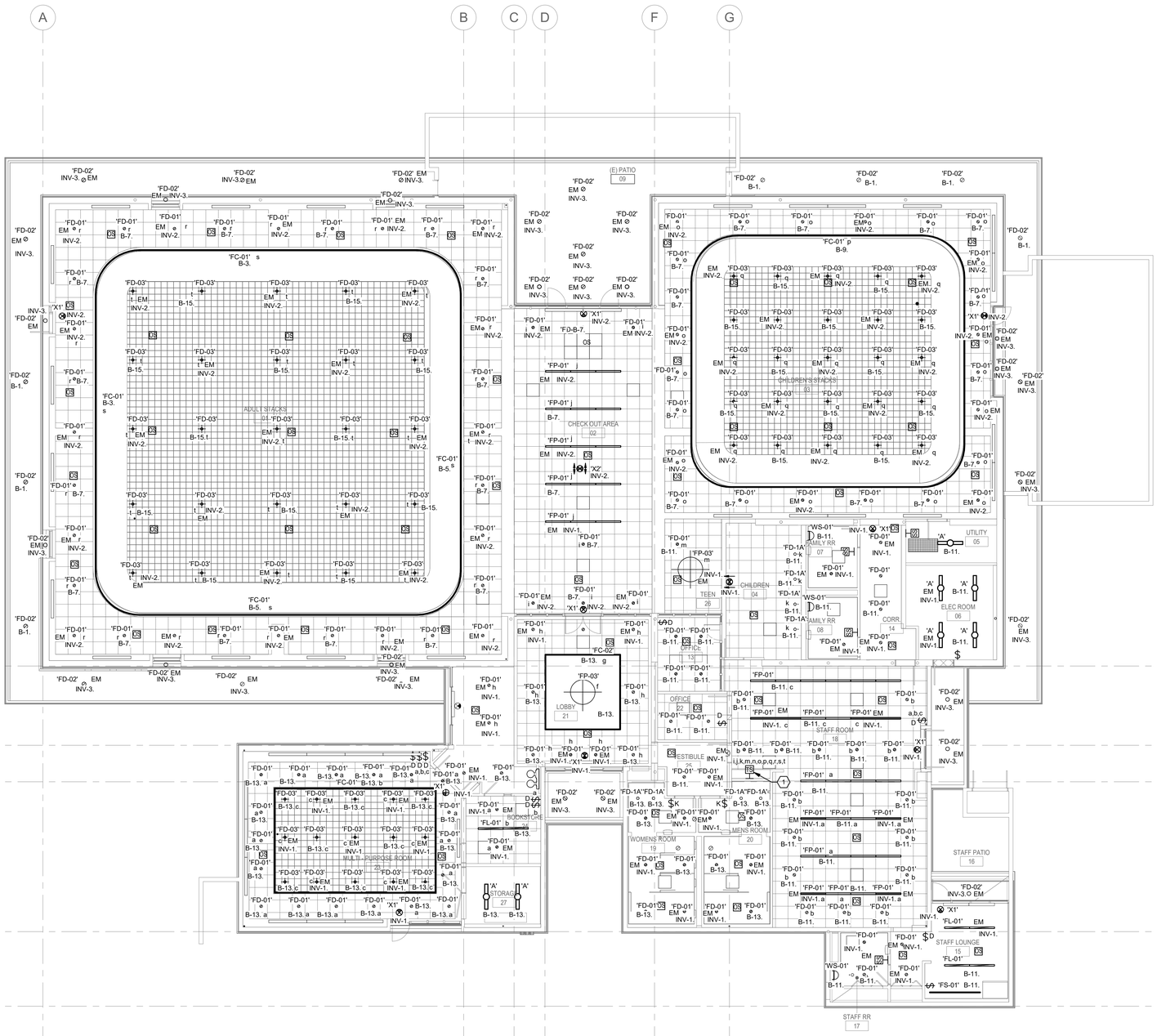
D. REFER TO ARCHITECTURAL DRAWING FOR LUMINAIRE INFORMATION.

E. REFER TO LIGHTING CONTROL MATRIX ON SHEET E002 FOR ADDITIONAL LIGHTING CONTROL REQUIREMENTS.

F. PROVIDE SEISMIC SUPPORT BRACING FOR ALL LINEAR FIXTURES.

SHEET KEYNOTES

1. PROVIDE TOUCH SCREEN SCENE CONTROLLER.



1 FIRST FLOOR PLAN - LIGHTING

NORTH

0' 4' 8' 16'

1/8" = 1'-0"

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Sheet Name:

FIRST FLOOR PLAN - LIGHTING

Project No.:	Sheet No.:
24.05	E200
Drawn By: Author	
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Luminaire Schedule									
Symbol	Qty	Label	Arrangement	Description	Tag	LLF	Luminaire Lumens	Luminaire Watts	Total Watts
	4	X-04	Single	DIRECTIONAL LIGHT	X-04	0.900	4400	44	176
	1	X-02	Single	PARK SIDE LIGHT	X-02	0.900	2447	31.1	31.1
	1	X-03	Single	WALL WASH	X-03	0.900	4400	44	44
	43	X-01	Single	WALL LIGHT	X-01	0.900	1170	11.7	503.1
	25	FP-03 - STREET	Single	SUSPENDED STREET LUMINAIRE	FP-03	0.900	20643	204.9	5122.5
	14	FP-01 - INTERIOR	Single	RECESSED LINEAR LED	FP-01	0.900	2557	24.31	340.34
	4	FL-01	Single	RECESSED LINEAR WALLWASHER - WIDE FLOOD	FL-01	0.900	2505	24.31	145.86
	4	FP-02	Single	RECESSED LINEAR WALLWASHER - WIDE FLOOD	FP-02	0.900	2447	24.31	97.24
	12	FD-01A	Single	RECESSED WALLWASHER - WIDEFLOOD	FD-01A	0.900	1525	16.9	182
	103	FD-01	Single	RECESSED DOWNLIGHT WIDE FLOOD	FD-01	0.900	1976	17.4	1792.2
	11	FD-02	Single	RECESSED DOWNLIGHT	FD-02	0.900	881	9.4	103.4

Calculation Summary						
Label	CalcType	Units	Ave	Min	Avg/Min	Max/Min
Bookstore_24, Workplane	Illuminance	Fc	13.32	9.4	1.33	2.33
CORR 14_Workplane	Illuminance	Fc	3.51	1.8	2.14	5.22
Family RR 07, Workplane	Illuminance	Fc	9.55	5.5	2.03	3.48
Family RR 08, Workplane	Illuminance	Fc	9.89	5.7	2.03	3.68
Lobby 21_Workplane	Illuminance	Fc	5.43	2.5	2.13	5.31
Open Room 26, Workplane	Illuminance	Fc	7.45	5.0	1.49	1.78
Overpass 23, Floor	Illuminance	Fc	8.55	3.6	2.37	4.03
South Exit Path	Illuminance	Fc	7.50	3.7	2.03	10.45
South Path	Illuminance	Fc	8.58	3.9	2.20	17.25
South Section_Floor	Illuminance	Fc	9.21	3.9	2.36	26.41
South Stair Path	Illuminance	Fc	8.79	3.9	2.25	11.00
South Exit Path	Illuminance	Fc	8.79	3.9	2.25	11.00
South Path	Illuminance	Fc	5.20	1.3	4.00	143.38
South West Path	Illuminance	Fc	2.07	1.3	1.59	N.A.
STAFF LOUNGE 15, Workplane	Illuminance	Fc	12.53	10.6	1.18	1.55
STAFF ROOM 17, Workplane	Illuminance	Fc	10.24	10.1	1.01	1.09
STAFF ROOM 18, Workplane	Illuminance	Fc	9.35	10.0	0.94	1.06
Stair 13_Workplane	Illuminance	Fc	8.25	13.5	0.61	0.74
Women Room 19, Workplane	Illuminance	Fc	7.39	17.3	0.43	11.97

1 FIRST FLOOR EMERGENCY PHOTOMETRIC CALCULATION - LIGHTING

0' 8' 16' 24'

3/32" = 1'-0"

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Sheet Name:

FIRST FLOOR PHOTOMETRIC CALCULATION - LIGHTING

Project No.:	Sheet No.:
24.05	E201
Drawn By: Author	
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GENERAL SHEET NOTES

A. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF RECEPTACLES AND ELECTRICAL DEVICES WITH ARCHITECT PRIOR TO INSTALLATION.

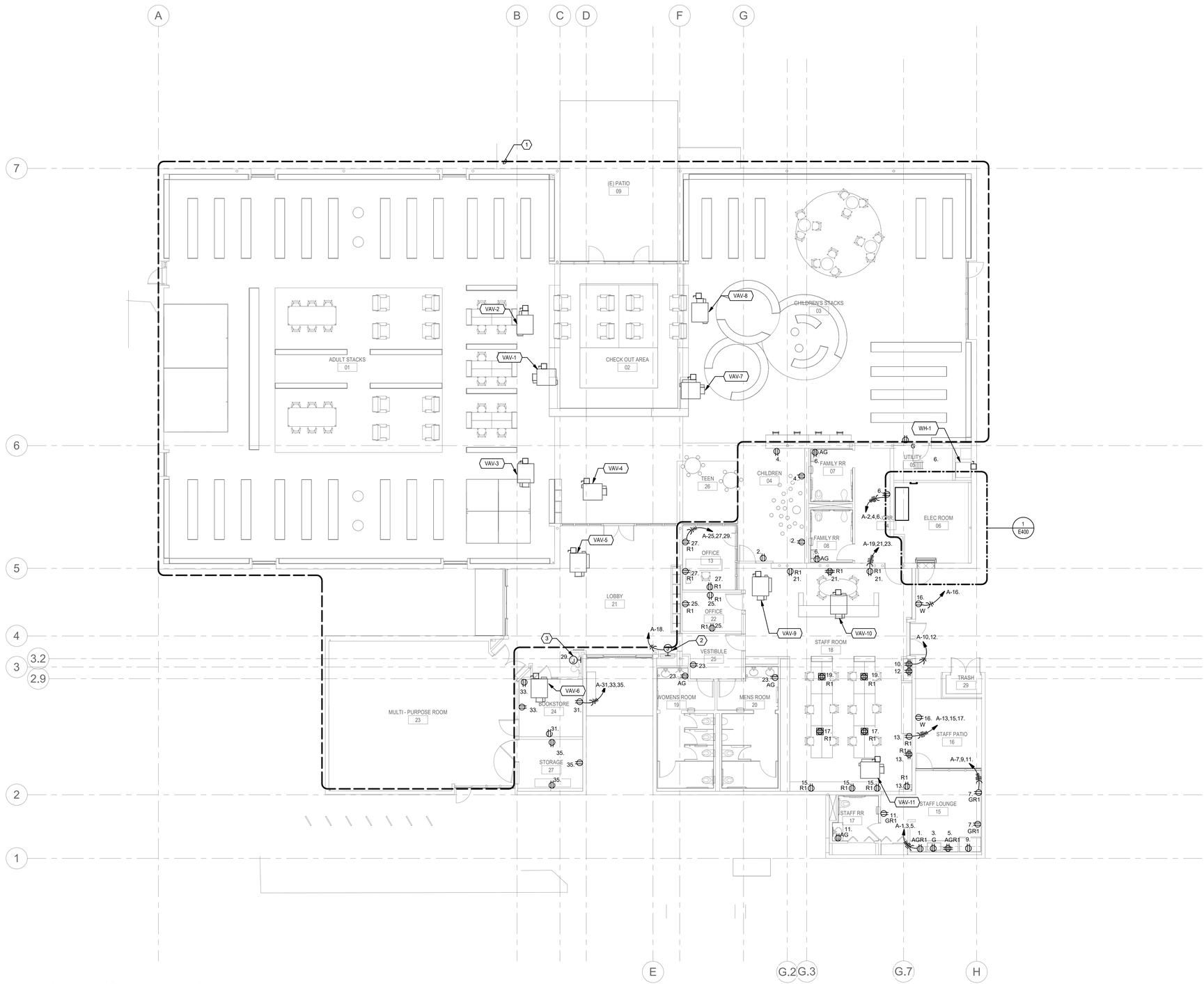
B. COORDINATE EXACT LOCATION AND POWER REQUIREMENTS OF HVAC UNITS WITH DIVISION 23 PRIOR TO INSTALLATION. PROVIDE BUDGET ALLOWANCE FOR MAINTENANCE RECEPTACLE WITHIN 25' OF EACH EQUIPMENT PER CEC ARTICLE 210.63.

C. COORDINATE EXACT LOCATION AND POWER REQUIREMENTS OF PLUMBING EQUIPMENT WITH DIVISION 22 PRIOR TO INSTALLATION.

D. REFER TO EQUIPMENT CONNECTION SCHEDULE ON SHEET E601 FOR MECHANICAL AND PLUMBING EQUIPMENT CIRCUITING INFORMATION.

SHEET KEYNOTES

1. PROVIDE NEW FACEPLATE FOR EXISTING RECEPTACLES. RECONNECT EXISTING RECEPTACLES TO NEW ELECTRICAL PANEL. VERIFY EXISTING RECEPTACLE LOCATION AND QUANTITY WITH OWNER PRIOR OF BIDDING.
2. PROVIDE POWER CONNECTION FOR FIRE ALARM CONTROL PANEL.
3. PROVIDE POWER CONNECTION FOR DRINKING FOUNTAIN.



1 FIRST FLOOR PLAN - POWER

0' 4' 8' 16'

1/8" = 1'-0"

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No. E22027
ELECTRICAL
STATE OF CALIFORNIA

Sheet Name:

FIRST FLOOR PLAN - POWER

Project No.: 24.05

Drawn By: Author

Checked By: Checker

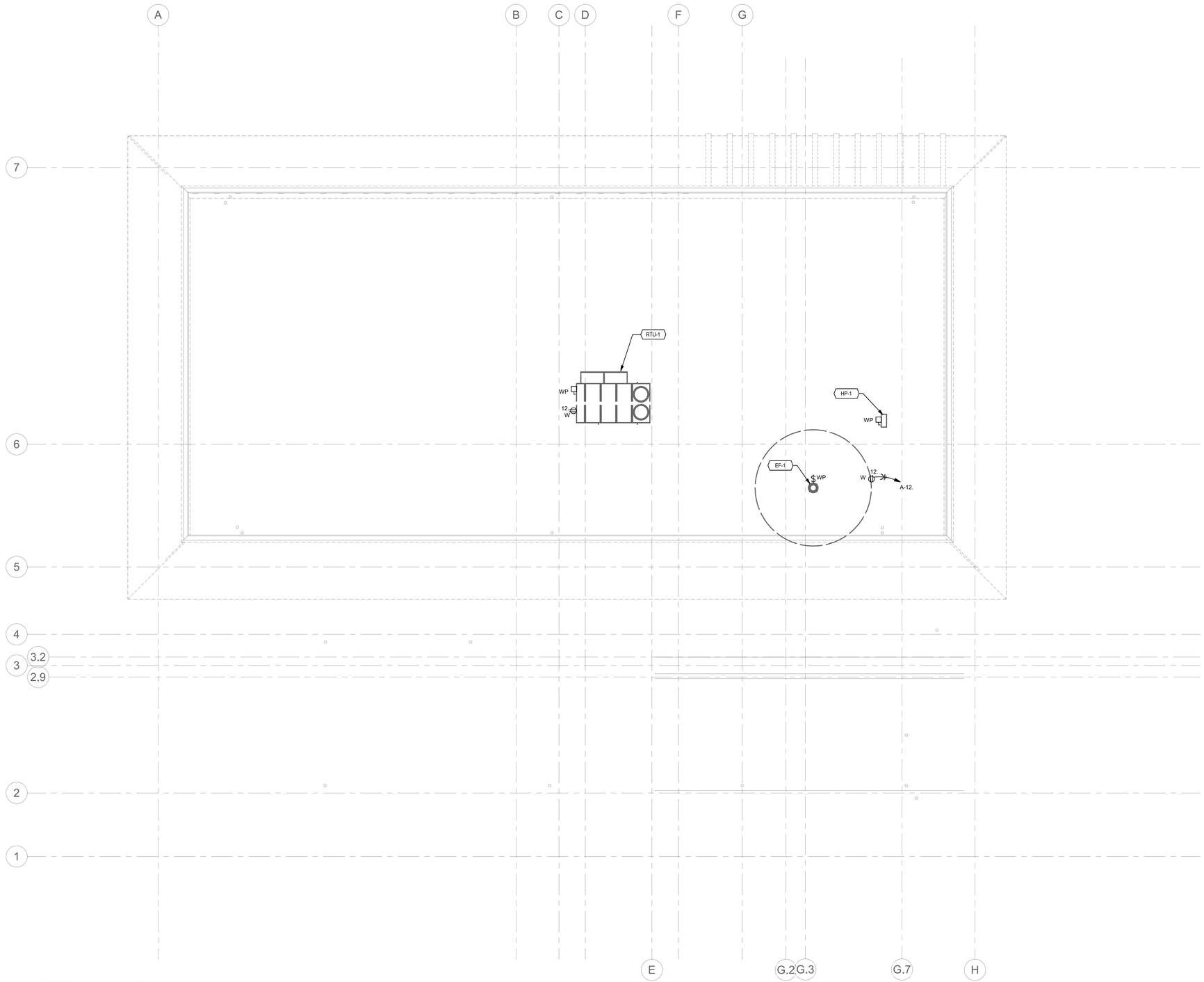
Scale: 1/8" = 1'-0"

Sheet No.: E300

GENERAL SHEET NOTES

A. COORDINATE EXACT LOCATION AND POWER REQUIREMENTS OF HVAC UNITS WITH DIVISION 23 PRIOR TO INSTALLATION. PROVIDE BUDGET ALLOWANCE FOR MAINTENANCE RECEPTACLE WITHIN 25' OF EACH EQUIPMENT PER CEC ARTICLE 210.63.

B. REFER TO EQUIPMENT CONNECTION SCHEDULE ON SHEET E601 FOR MECHANICAL AND PLUMBING EQUIPMENT CIRCUITING INFORMATION.



1 ROOF PLAN - POWER

0' 4' 8' 16'

1/8" = 1'-0"

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WESLEY S. LAU
No. E23027
ELECTRICAL
STATE OF CALIFORNIA

Sheet Name:

ROOF PLAN - POWER

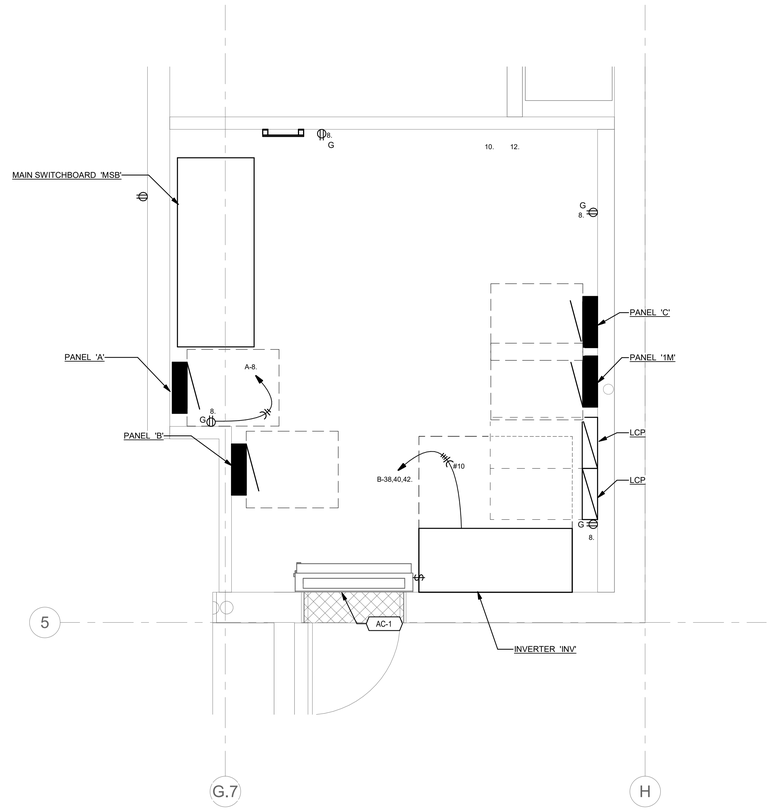
Project No.: 24.05

Drawn By: Author

Checked By: Checker

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

Sheet No.: E301



1 ENLARGED MAIN ELECTRICAL ROOM - POWER

0' 1' 2' 4'

1/2" = 1'-0"

GENERAL SHEET NOTES

A. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF RECEPTACLES AND ELECTRICAL DEVICES WITH ARCHITECT PRIOR TO INSTALLATION.

B. COORDINATE EXACT LOCATION AND POWER REQUIREMENTS OF HVAC UNITS WITH DIVISION 23 PRIOR TO INSTALLATION. PROVIDE BUDGET ALLOWANCE FOR MAINTENANCE RECEPTACLE WITHIN 25' OF EACH EQUIPMENT PER CEC ARTICLE 210.63.

C. REFER TO EQUIPMENT CONNECTION SCHEDULE ON SHEET E601 FOR MECHANICAL EQUIPMENT CIRCUITING INFORMATION.

1. PROVIDE POWER CONNECTION FOR FIRE ALARM CONTROL PANEL.

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No. E22027
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STATE OF CALIFORNIA

Sheet Name:

ENLARGED PLANS - ELECTRICAL

Project No.:	24.05	Sheet No.:
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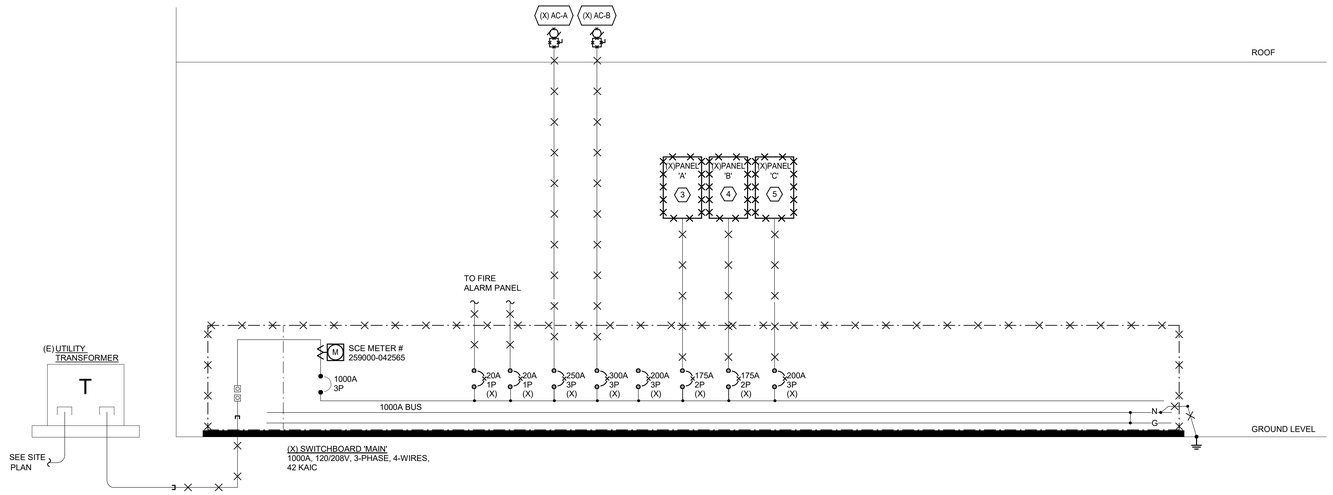
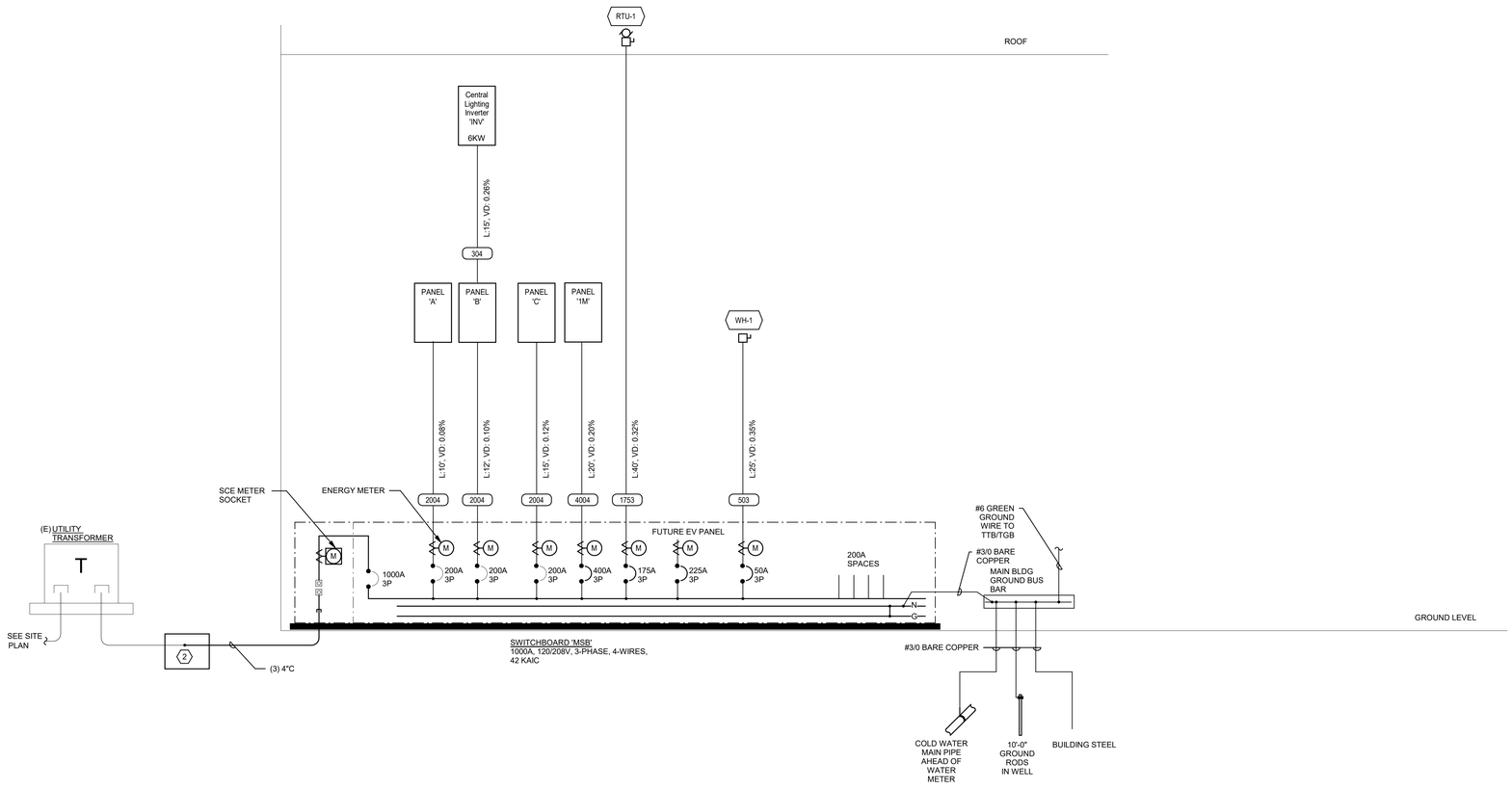


1 ONE-LINE DIAGRAM - DEMOLITION

NO SCALE



2 ONE-LINE DIAGRAM - NEW

NO SCALE

GENERAL SHEET NOTES

A. EXISTING FEEDER BREAKER CONNECTIONS ARE BASED ON LIMITED FIELD OBSERVATION. CONTRACTOR TO VERIFY ACTUAL FEEDER BREAKER CONNECTIONS.

B. ALL AIC RATINGS SHOWN ARE MINIMUM REQUIREMENTS. COORDINATE EXACT RATING BASED ON SHORT CIRCUIT STUDY RECOMMENDATIONS PER SPEC SECTION 26 05 73.

SHEET KEYNOTES

1. NOT USED.
2. INTERCEPT EXISTING SERVICE FEEDER WITH NEW 3'X4' PULLBOX AND EXTEND EXISTING FEEDER TO NEW SWITCHBOARD. MATCH EXISTING CONDUIT AND CONDUCTOR SIZE AND QUANTITIES.
3. INTERCEPT EXISTING BRANCH CIRCUITS ASSOCIATED WITH PANEL 'A' AND EXTEND ALL EXISTING BRANCH CIRCUITS TO NEW PANEL 'A'.
4. INTERCEPT EXISTING BRANCH CIRCUITS ASSOCIATED WITH PANEL 'B' AND EXTEND ALL EXISTING BRANCH CIRCUITS TO NEW PANEL 'A'.
5. INTERCEPT EXISTING BRANCH CIRCUITS ASSOCIATED WITH PANEL 'A' AND EXTEND ALL EXISTING BRANCH CIRCUITS TO NEW PANEL 'C'.

FEEDER SCHEDULE

A,C,S,X A=Aluminum
C=Conduit only
S=Service secondary
X=Seperately derived system

304	4 #10 CU, 1 #10 CU GND., IN 3/4" C.
503	3 #6 CU, 1 #10 CU GND., IN 3/4" C.
1753	3 #2/0 CU, 1 #6 CU GND., IN 2" C.
2004	4 #3/0 CU, 1 #6 CU GND., IN 2" C.
4004	2 SETS OF (4 #3/0 CU, 1 #2 CU GND., IN 2" C.)

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No. E22027
ELECTRICAL
STATE OF CALIFORNIA

Sheet Name:
SINGLE LINE DIAGRAMS - ELECTRICAL

Project No.:	Sheet No.:
24.05	E501
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Switchboard 'MSB'

2024-0186

Load No.	Description / Location	Note	Load (VA)	Load Type
1	Panel 'A'		5,860	S
-	-		5,660	S
-	-		7,720	S
2	Panel 'B'		7,100	S
-	-		6,910	S
-	-		5,600	S
3	Panel 'C'		8,000	S
-	-		8,000	S
-	-		8,000	S
4	Panel '1M'		26,638	S
-	-		26,578	S
-	-		26,263	S
5	WH-1		4,033	WH
-	-		4,033	WH
-	-		4,033	WH
6	RTU-1		14,026	M
-	-		14,026	M
-	-		14,026	M
7				
-				
-				
8				
-				
-				
9				
-				
-				
10				
-				
-				
11				
-				
-				
12				
-				
-				
13				
-				
-				
14				
-				
-				

Total Connected Load:	Ph A	65,657 VA	547 Amps
Total Connected Load:	Ph B	65,207 VA	543 Amps
Total Connected Load:	Ph C	65,642 VA	547 Amps
Total Connected Load:		197.0 **KVA**	546.7 **Amps**
Total Demand Load:		205.1 **KVA**	569.4 **Amps**

Panel 'A'

120/208V, 3 Ph., 4 W.; 225A Bus with Main Lug Only Surface Mounted Panelboard

2024-0186

42KAIC

Ckt. No.	Description / Location	Load (VA)	Type	C.B. A/Pole	Note	Ph.	Note	C.B. A/Pole	Load (VA)	Type	Description / Location	Ckt. No.
1	RECEP - STAFF LOUNGE	360	R	20/1		A		20/1	360	R	RECEP - CHILDREN	2
3	RECEP - STAFF LOUNGE	180	R	20/1		B		20/1	360	R	RECEP - CHILDREN	4
5	RECEP - STAFF LOUNGE	360	R	20/1		C		20/1	720	R	RECEP - FAMILY RR / JC	6
7	RECEP - STAFF LOUNGE	360	R	20/1		A		20/1	720	R	RECEP - ELEC	8
9	REFRIGERATOR - STAFF LOUNGE	800	R	20/1	1	B		20/1	1,800	G	RECEP - IT RACK	10
11	RECEP - STAFF RR	360	R	20/1		C		20/1	1,800	G	RECEP - IT RACK	12
13	RECEP - STAFF ROOM	1,080	R	20/1		A		20/1	360	R	RECEP - ROOF	14
15	RECEP - STAFF ROOM	540	R	20/1		B		20/1	360	R	RECEP - STAFF PATIO	16
17	RECEP - STAFF ROOM	720	R	20/1		C		20/1	1,000	G	FIRE ALARM CONTROL PANEL	18
19	RECEP - STAFF ROOM	720	R	20/1		A		20/1			SPARE	20
21	RECEP - STAFF ROOM	720	R	20/1		B		20/1			SPARE	22
23	RECEP - MEN & WOMEN	540	R	20/1		C		20/1			SPARE	24
25	RECEP - OFFICE	540	R	20/1		A		20/1			SPARE	26
27	RECEP - OFFICE	540	R	20/1		B		20/1			SPARE	28
29	DRINKING FOUNTAIN	1,500	G	20/1		C		20/1			SPARE	30
31	RECEP - BOOK STORE	360	R	20/1		A		20/1			SPARE	32
33	RECEP - BOOK STORE	360	R	20/1		B		20/1			SPARE	34
35	RECEP - STORAGE	720	R	20/1		C		20/1			SPARE	36
37	SPARE			20/1		A		20/1			SPARE	38
39	SPARE			20/1		B		20/1			SPARE	40
41	SPARE			20/1		C		20/1			SPARE	42

Total Connected Load:	Ph. A	4,860 VA	40 Amps
Total Connected Load:	Ph. B	5,660 VA	47 Amps
Total Connected Load:	Ph. C	7,720 VA	64 Amps
Panel Connected Load:		18.2 KVA	50.6 Amps
Sub-Fed Connected Load:		0.0 KVA	0.0 Amps
Total Demand Load:		17.2 **KVA**	47.7 **Amps**

Notes:
1. PROVIDE GFCI TYPE CIRCUIT BREAKER
2.
3.
4.
5.

Accessories:

Battery Inverter 'INV'

120/208V, 3 Ph., 4 W.; 6 KVA

2024-0186

22KAIC

Ckt. No.	Description / Location	Load (VA)	Type	C.B. A/Pole	Note	Ph.
1	EM LTG - INTERIOR	1,000	L	20/1		A
2	EM LTG - INTERIOR	1,380	L	20/1		B
3	EM LTG - EXTERIOR	1,000	L	20/1		C
4	SPARE			20/1		A
5	SPARE			20/1		B
6	SPARE			20/1		C
7	SPACE					A
8	SPACE					B
9	SPACE					C
10	SPACE					A
11	SPACE					B
12	SPACE					C

Notes:
1.
2.
3.
4.
5.

Accessories:

Total Connected Load:	Ph. A	1,000 VA	8 Amps
Total Connected Load:	Ph. B	1,380 VA	11 Amps
Total Connected Load:	Ph. C	1,000 VA	8 Amps
Panel Connected Load:		3.4 KVA	9.4 Amps
Sub-Fed Connected Load:		0.0 KVA	0.0 Amps
Total Demand Load:		4.2 **KVA**	11.7 **Amps**

Panel 'B'

120/208V, 3 Ph., 4 W.; 225A Bus with Main Lug Only Surface Mounted Panelboard

2024-0186

42KAIC

Ckt. No.	Description / Location	Load (VA)	Type	C.B. A/Pole	Note	Ph.	Note	C.B. A/Pole	Load (VA)	Type	Description / Location	Ckt. No.
1	LIGHTS - EXTERIOR	100	L	20/1		A	2	20/1	1,000	L	(E) FLOOD LIGHTS - FRONT OF BUILDING	2
3	LIGHTS - ADULT STACKS	1,000	L	20/1		B	2	20/1	1,000	L	(E) FLOOD LIGHTS - ROOF MOUNTED	4
5	LIGHTS - ADULT STACKS	1,000	L	20/1		C	2	20/1	1,000	L	(E) FLOOD LIGHTS PARKING	6
7	LIGHTS - ADULT/CHILDREN'S STACKS	1,700	L	20/1		A	2	20/1	1,000	L	(E) LIGHTS - REAR PARKING & SIGN	8
9	LIGHTS - CHILDREN'S STACKS	1,530	L	20/1		B	2	20/1	1,000	L	(E) LIGHTS - ENTRY TRELLISES	10
11	LIGHTS - OFFICE	1,600	L	20/1		C		20/1			SPARE	12
13	LIGHTS - LOBBY & MULTI-PURPOSE	1,300	L	20/1		A		20/1			SPARE	14
15	LIGHTS - ADULT/CHILDREN'S STACKS	600	L	20/1		B		20/1			SPARE	16
17	SPARE			20/1		C		20/1			SPARE	18
19	SPARE			20/1		A		20/1			SPARE	20
21	SPARE			20/1		B	1	20/1	1,000	M	(E) HAND DRYER	22
23	SPARE			20/1		C	1	20/1	1,000	G	(E) ATTIE & ROOF EQUIPMENT	24
25	SPARE			20/1		A	1	20/1	1,000	M	(E) HAND DRYER	26
27	SPARE			20/1		B		20/1			SPARE	28
29	SPARE			20/1		C		20/1			SPARE	30
31	SPARE			20/1		A		20/1			SPARE	32
33	SPARE			20/1		B		20/1			SPARE	34
35	SPARE			20/1		C		20/1			SPARE	36
37	SPARE			20/1		A		30/3	1,000	S	Battery Inverter 'INV'	38
39	SPARE			20/1		B		-	1,380	S	-	40
41	SPARE			20/1		C		-	1,000	S	-	42

Total Connected Load:	Ph. A	7,100 VA	59 Amps
Total Connected Load:	Ph. B	7,510 VA	63 Amps
Total Connected Load:	Ph. C	5,600 VA	47 Amps
Panel Connected Load:		16.8 KVA	46.7 Amps
Sub-Fed Connected Load:		3.4 KVA	9.4 Amps
Total Demand Load:		24.8 **KVA**	68.7 **Amps**

Notes:
1. RECONNECT EXISTING LOAD FROM EXISTING PANEL A
2. RECONNECT EXISTING LOAD FROM EXISTING PANEL B
3.
4.
5.

Accessories:

Panel 'C'

120/208V, 3 Ph., 4 W.; 225A Bus with Main Lug Only Surface Mounted Panelboard

2024-0186

42KAIC

Ckt. No.	Description / Location	Load (VA)	Type	C.B. A/Pole	Note	Ph.	Note	C.B. A/Pole	Load (VA)	Type	Description / Location	Ckt. No.
1	(E) RECEP - ADULT READING	1,000	R	20/1	1	A	1	20/1	1,000	R	(E) RECEP MULTI-PURPOSE	2
3	(E) RECEP - CHARGING DECK	1,000	R	20/1	1	B	1	20/1	1,000	R	(E) RECEP MULTI-PURPOSE	4
5	(E) RECEP - ADULT READING	1,000	R	20/1	1	C		20/1			SPARE	6
7	(E) RECEP - LOUNGE & CHILD READ	1,000	R	20/1	1	A	1	20/1	1,000	R	(E) PRINTER - TYPING	8
9	(E) RECEP - ADULT READING	1,000	R	20/1	1	B		20/1			SPARE	10
11	(E) RECEP - CHILD READ	1,000	R	20/1	1	C	1	20/1	1,000	M	(E) FAN 'C'	12
13	(E) RECEP - ADULT READING	1,000	R	20/1	1	A	1	20/1	1,000	M	(E) FAN 'D'	14
15	(E) RECEP - STORY	1,000	R	20/1	1	B	1	20/1	1,000	M	(E) FAN 'B'	16
17	(E) RECEP - TYPING	1,000	R	20/1	1	C	1	20/1	1,000	G	(E) SPRINKLER CONTROL	18
19	SPARE			20/1		A	1	20/1	1,000	M	(E) FAN 'E'	20
21	SPARE			20/1		B		20/1			SPARE	22
23	SPARE			20/1		C	1	20/1	1,000	G	(E) WATER HEATER	24
25	SPARE			20/1		A		20/1			SPARE	26
27	SPARE			20/1		B	1	20/1	1,000	G	(E) WATER HEATER	28
29	SPARE			20/1		C	1	20/1	1,000	G	(E) WATER COOLER	30
31	SPARE			20/1		A		20/1			SPARE	32
33	(E) RECEP ENTRY	1,000	R	20/1	1	B		20/1			SPARE	34
35	SPARE			20/1		C		20/1			SPARE	36
37	(E) RECEP MULTI-PURPOSE	1,000	R	20/1	1	A		20/1			SPARE	38
39	(E) RECEP MULTI-PURPOSE	1,000	R	20/1	1	B		20/1			SPARE	40
41	(E) RECEP MULTI-PURPOSE	1,000	R	20/1	1	C		20/1			SPARE	42

Total Connected Load:	Ph. A	8,000 VA	67 Amps
Total Connected Load:	Ph. B	8,000 VA	67 Amps
Total Connected Load:	Ph. C	8,000 VA	67 Amps
Panel Connected Load:		24.0 KVA	66.6 Amps
Sub-Fed Connected Load:		0.0 KVA	0.0 Amps
Total Demand Load:		21.3 **KVA**	59.0 **Amps**

Notes:
1. RECONNECT EXISTING LOAD FROM EXISTING PANEL C
2.
3.
4.
5.

Accessories:

Panel '1M'

120/208V, 3 Ph., 4 W.; 400A Bus with Main Lug Only Surface Mounted Panelboard

2024-0186

42KAIC

Ckt. No.	Description / Location	Load (VA)	Type	C.B. A/Pole	Note	Ph.	Note	C.B. A/Pole	Load (VA)	Type	Description / Location	Ckt. No.
1	HP-1	915	M	25/2		A		15/1	60	M	CP-1	2
3	-	915	M	-		B					SPACE	4
5	EF-1	600	M	15/1		C					SPACE	6
7	VAV-1	2,666	H	35/3		A		25/3	2,000	H	VAV-7	8
9	-	2,666	H	-		B		-	2,000	H	-	10
11	-	2,666	H	-		C		-	2,000	H	-	12
13	VAV-2	3,666	H	45/3		A		35/3	3,000	H	VAV-8	14
15	-	3,666	H	-		B		-	3,000	H	-	16
17	-	3,666	H	-		C		-	3,000	H	-	18
19	VAV-3	2,666	H	35/3		A		15/3	833	H	VAV-9	20
21	-	2,666	H	-		B		-	833	H	-	22
23	-	2,666	H	-		C		-	833	H	-	24
25	VAV-4	1,333	H	20/3		A		35/3	2,666	H	VAV-10	26
27	-	1,333	H	-		B		-	2,666	H	-	28
29	-	1,333	H	-		C		-	2,666	H	-	30
31	VAV-5	2,000	H	25/3		A		15/3	833	H	VAV-11	32
33	-	2,000	H	-		B		-	833	H	-	34
35	-	2,000	H	-		C		-	833	H	-	36
37	VAV-6	4,000	H	50/3		A					SPACE	38
39	-	4,000	H	-		B					SPACE	40
41	-	4,000	H	-		C					SPACE	42
43	SPACE					A					SPACE	44
45	SPACE					B					SPACE	46
47	SPACE					C					SPACE	48
49	SPACE					A					SPACE	50
51	SPACE					B					SPACE	52
53	SPACE					C					SPACE	54
55	SPACE					A					SPACE	56
57	SPACE					B					SPACE	58
59	SPACE					C					SPACE	60

Total Connected Load:	Ph. A	26,638 VA	222 Amps
Total Connected Load:	Ph. B	26,578 VA	221 Amps
Total Connected Load:	Ph. C	26,263 VA	219 Amps
Panel Connected Load:		79.5 KVA	220.6 Amps
Sub-Fed Connected Load:		0.0 KVA	0.0 Amps
Total Demand Load:		79.9 **KVA**	221.9 **Amps**

Notes:
1.
2.
3.
4.
5.

Accessories:

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

ITEM	DESCRIPTION	LOCATION	VOLTS / PHASE	LOAD	MCA	MOCP	WIRE / CONDUIT	CIRCUIT	NOTES
RTU-1	ROOF PACKAGE AC UNIT	ROOF	208/3		146	175		MSB	1
AC-1	AIR CONDITIONING UNIT	ELEC RM	208/1	0.2 A		15	202		2
HP-1	HEAT PUMP	ROOF	208/1		11	25	302	1M-1,3	
VAV-1	VAV BOX		208/3	8.0 KW		35	403	1M-7,9,11	
VAV-2	VAV BOX		208/3	11.0 KW		45	503	1M-13,15,17	
VAV-3	VAV BOX		208/3	8.0 KW		35	403	1M-19,21,23	
VAV-4	VAV BOX		208/3	4.0 KW		20	203	1M-25,27,29	
VAV-5	VAV BOX		208/3	6.0 KW		25	303	1M-31,33,35	
VAV-6	VAV BOX		208/3	12.0 KW		50	503	1M-37,39,41	
VAV-7	VAV BOX		208/3	6.0 KW		25	303	1M-8,10,12	
VAV-8	VAV BOX		208/3	9.0 KW		35	403	1M-14,16,18	
VAV-9	VAV BOX		208/3	2.5 KW		15	203	1M-20,22,24	
VAV-10	VAV BOX		208/3	8.0 KW		35	403	1M-26,28,30	
VAV-11	VAV BOX		208/3	2.5 KW		15	203	1M-32,34,36	
EF-1	EXHAUST FAN		120/1	0.2 HP		15	202	1M-5	
WH-1	WATER HEATER		208/3	12.1 KW		50	503	MSB	1
CP-1	CIRCULATION PUMP		120/1	0.5 A		15	202	1M-2	

GENERAL MECHANICAL EQUIPMENT CONNECTION SCHEDULE NOTES

A. THE ABOVE INFORMATION IS FOR A SPECIFIC MANUFACTURER. ACTUAL MANUFACTURER FOR EQUIPMENT MAY BE DIFFERENT. COORDINATE WITH MECHANICAL EQUIPMENT SUBMITTALS FOR LOADS AND OVER CURRENT PROTECTION REQUIREMENTS PRIOR TO INSTALLATION OF WIRING.

B. MOCP = MAXIMUM OVER CURRENT PROTECTION
MCA = MINIMUM CIRCUIT AMPACITY

C. PROVIDE DISCONNECTING MEANS FOR EACH ITEM OF EQUIPMENT LISTED IN THE SCHEDULE ABOVE, EXCEPT AS SPECIFICALLY NOTED OTHERWISE IN SCHEDULE NOTES, BELOW.

MECHANICAL EQUIPMENT CONNECTION SCHEDULE NOTES

1 SEE ONE LINE POWER DIAGRAM FOR FEEDER SIZE CIRCUITING.

2 POWERED FROM OUTDOOR UNIT.

WIRE / CONDUIT SCHEDULE

202 2 #12 CU, 1 #12 CU GND., IN 3/4" C.

203 3 #12 CU, 1 #12 CU GND., IN 3/4" C.

302 2 #10 CU, 1 #10 CU GND., IN 3/4" C.

303 3 #10 CU, 1 #10 CU GND., IN 3/4" C.

403 3 #8 CU, 1 #10 CU GND., IN 3/4" C.

503 3 #6 CU, 1 #10 CU GND., IN 3/4" C.

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Seal & Signature:

REGISTERED PROFESSIONAL ENGINEER WESLEY S. LAU No. E22027 ELECTRICAL STATE OF CALIFORNIA

Sheet Name:

SCHEDULES - ELECTRICAL

Project No.: 24.05

Drawn By: Author
Checked By: Checker
Scale: 12" = 1'-0"

Sheet No.: E601

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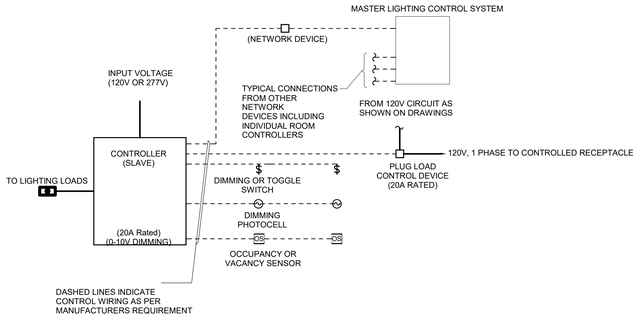

1 TITLE 24 LIGHTING CONTROL DETAIL

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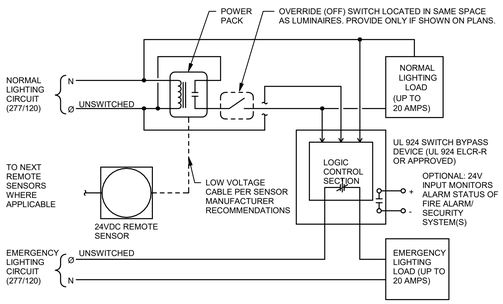

2 EMERGENCY LIGHTING RELAY SCHEMATIC

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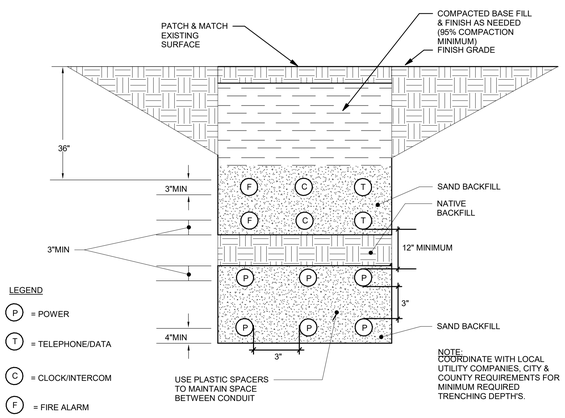
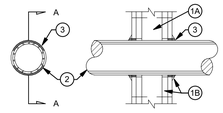


3 UTILITY TRENCH

NO SCALE

SYSTEM NO. WL1001

F RATINGS - 1,2,3, AND 4 HR (SEE ITEMS 2 AND 3)
T RATINGS - 0,1,2,3,AND 4 HR (SEE ITEM 3)



SECTION A-A

1. WHERE PROVIDED, THROUGH-PENETRATION FIRESTOP SYSTEM AND MEMBRANE PENETRATION DETAILS ARE FOR REFERENCE ONLY. THROUGH-PENETRATIONS AND MEMBRANE PENETRATIONS SHALL BE PROTECTED BY AN APPROVED PENETRATION FIRESTOP SYSTEM OR MEMBRANE PENETRATION FIRESTOP SYSTEM INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E 814 OR UL 1479, WITH A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH (2.49 PA) OF WATER OR AS OTHERWISE PERMITTED BY CBC, SECTION 714. LISTED THROUGH-PENETRATION FIRESTOP SYSTEMS AND MEMBRANE PENETRATIONS SHALL BE INSTALLED IN ACCORDANCE WITH THE INSTALLATION DETAILS FOR LISTED SYSTEMS. LISTED THROUGH-PENETRATION FIRESTOP SYSTEMS, MEMBRANE PENETRATION PROTECTION AND OTHER PERMITTED MEANS AND METHODS OF PENETRATION PROTECTION SHALL BE SUBMITTED FOR OSHPD FDD REVIEW AND APPROVAL PRIOR TO INSTALLATION.

DETAIL KEYNOTES

1. WALL ASSEMBLY - THE 1, 2, 3 OR 4 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 DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
   A. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS (MAX. 2HR FIRE RATED ASSEMBLIES) OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM. 2 BY 4 IN. LUMBER SPACED 16 IN. OC WITH NOM. 2 BY 4 IN. LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN. 3-5/8 IN. WIDE BY 1-3/8 IN. DEEP CHANNELS SPACED MAX. 24 IN. OC.
   B. WALLBOARD, GYPSUM* - NOM. 1/2 OR 5/8 IN. THICK, 4 FT. WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD 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 13-1/2 IN.
2. PIPE OR CONDUIT - NOM 12 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE, NOM 6 IN. DIAM (OR SMALLER) STEEL CONDUIT, NOM 4 IN. DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR TYPE L OR (OR HEAVIER) COPPER TUBING OR NOM 1 IN. DIAM (OR SMALLER) FLEXIBLE STEEL CONDUIT WHEN COPPER PIPE OR FLEXIBLE STEEL CONDUIT IS USED, MAX F RATING OF FIRESTOP SYSTEM (ITEM 3) IS 2 HR. STEEL PIPES OR CONDUITS LARGER THAN NOM 4 IN. DIAM MAY ONLY BE USED IN WALLS CONSTRUCTED USING STEEL CHANNEL STUDS. A MAX OF ONE PIPE OR CONDUIT IS PERMITTED IN THE FIRESTOP SYSTEM. PIPE OR CONDUIT TO BE INSTALLED NEAR CENTER OF STUD CAVITY WIDTH AND TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY.
3. FILL, VOID OR CAVITY MATERIAL - CAULK - CAULK FILL MATERIAL INSTALLED TO COMPLETELY FILL ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND GYPSUM WALLBOARD AND WITH A MIN 1/4 IN. DIAM BEAD OF CAULK APPLIED TO PERIMETER OF PIPE OR CONDUIT AT ITS EGRESS FROM THE WALL. CAULK INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL ASSEMBLY. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS SHOWN IN THE FOLLOWING TABLE. THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE TYPE OR SIZE OF THE PIPE OR CONDUIT AND THE HOURLY RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS TABULATED BELOW:

MAX PIPE OR CONDUIT DIAM, IN.	ANNULAR SPACE IN.	F RATING, HR.	T RATING, HR.
1	0 TO 3/16	1 OR 2	0+, 1 OR 2
1	1/4 TO 1/2	3 OR 4	3 OR 4
4	0 TO 1/4	1 OR 2	0
6	1/4 TO 1/2	3 OR 4	0
12	3/16 TO 3/8	1 OR 2	0

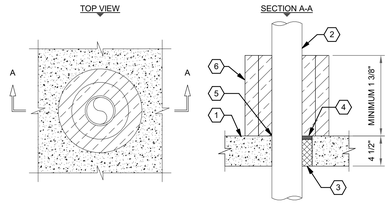
+ WHEN COPPER PIPE IS USED, T RATING IS 0 HR. MINNESOTA MINING & MFG. CO. CAULK MATERIAL AND ASSEMBLY - SHALL BE APPROVED BY OSHPD FIRE MARSHAL.
*BEARING THE UL CLASSIFICATION MARKING

4 ONE-HOUR FIRE-RATED PARTITION CONDUIT PENETRATION DETAIL

NO SCALE

UL/cUL SYSTEM NO. C-AJ-1610
METAL PIPE THROUGH CONCRETE FLOOR/WALL OR BLOCK WALL

F AND T-RATINGS = 2-HR.
L-RATING AT AMBIENT = LESS THAN 1 CFM/SQ. FT.
L-RATING AT 400°F = LESS THAN 1 CFM/SQ. FT.
W-RATING = CLASS I



NOTES:

1. MAXIMUM DIAMETER OF OPENING = 6".
2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 1-1/2".
3. MINIMUM 1/2" DEPTH HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT OR HILTI CP 606 FLEXIBLE FIRESTOP SEALANT IS REQUIRED ON BOTH SIDES OF A WALL.
4. W-RATING ONLY APPLIED WHEN HILTI CP 604 SELF LEVELING FIRESTOP SEALANT IS USED.

DETAIL KEYNOTES

1 CONCRETE FLOOR OR WALL ASSEMBLY (2-HR FIRE-RATING):
A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR OR WALL (MINIMUM 4-1/2" THICK).
B. ANY UL/cUL CLASSIFIED CONCRETE BLOCK WALL.

2 PENETRATING ITEM TO BE ONE OF THE FOLLOWING :
A. MAXIMUM 4" NOMINAL DIAMETER STEEL PIPE (SCH 40 OR HEAVIER).
B. MAXIMUM 4" NOMINAL DIAMETER CAST OR DUCTILE IRON PIPE.
C. MAXIMUM 4" NOMINAL DIAMETER STEEL CONDUIT.

3 MINERAL WOOL (MIN. 4 PCF DENSITY) TIGHTLY PACKED AND RECESSED TO ACCOMMODATE SEALANT.

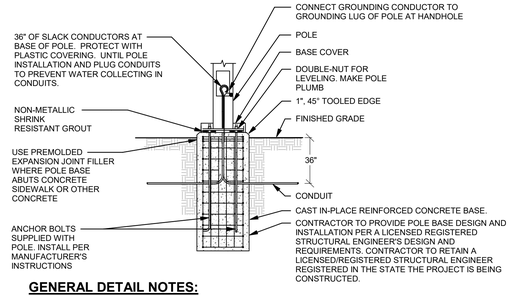
4 MINIMUM 1/2" DEPTH HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT, HILTI CP 606 FLEXIBLE FIRESTOP SEALANT, OR HILTI CP 604 SELF LEVELING FIRESTOP SEALANT.

5 MINIMUM 1/2" BEAD HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT OR HILTI CP 606 FLEXIBLE FIRESTOP SEALANT APPLIED AT POINT OF CONTACT.

6 TWO LAYERS OF NOMINAL 2" THICK FIBERGLASS DUCT WRAP (MIN. 1 PCF DENSITY) TIGHTLY WRAPPED AROUND PENETRANT AND TIGHTLY BUTTED TO TOP SURFACE OF FLOOR, OR BOTH SIDES OF WALL, AND EXTENDING MINIMUM 12" ABOVE FLOOR, OR PAST BOTH SIDES OF WALL. ALL LONGITUDINAL SEAMS OF BOTH LAYERS OF DUCT WRAP ARE TO BE SEALED WITH FOIL TAPE.

5 CONDUIT THROUGH FLOOR/CEILING FIRESTOP ASSEMBLY DETAIL

NO SCALE



GENERAL DETAIL NOTES:

A. CONDUCTORS THROUGH POLE TO LUMINAIRE TO BE RATED 90° C
B. SEE LUMINAIRE SCHEDULE FOR POLE HEIGHT.

6 SECTION - AREA LUMINAIRE STANDARD FLUSH ANCHOR BASE

NO SCALE

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DETAILS - ELECTRICAL

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TECHNOLOGY SYMBOL LIST

NOTE: This is a standard symbol list and not all items listed may be used.

Abbreviations

(E)	EXISTING
AFF	ABOVE FINISHED FLOOR
ANMW	GEL-FILLED UNDERGROUND CABLE
C	CONDUIT
CAT	CATEGORY
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CFOI	CONTRACTOR FURNISHED OWNER INSTALLED
COAX	COAXIAL
EA	EACH
FDU	FIBER OPTIC DISTRIBUTION UNIT
FT	FOOT, FEET
HH	HANDHOLE
IDF	INTERMEDIATE DISTRIBUTION FRAME
IN	INCH, INCHES
IT	INFORMATION TECHNOLOGY
LAN	LOCAL AREA NETWORK
LC	FIBER OPTIC CONNECTOR
LV	LOW VOLTAGE
MDF	MAIN DISTRIBUTION FRAME
MISC	MISCELLANEOUS
N/A	NOT APPLICABLE
NTS	NOT TO SCALE
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OSP	OUTSIDE PLANT
PBX	PRIVATE BRANCH EXCHANGE
POE	POWER OVER ETHERNET
PTZ	PAN, TILT, ZOOM
QTY	QUANTITY
RFI	REQUEST FOR INFORMATION
RM	ROOM
SC	FIBER OPTIC CONNECTOR
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TGB	TELECOMMUNICATIONS GROUNDING BUS BAR
TTB	TELEPHONE TERMINAL BOARD
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
W/	WITH
W/O	WITHOUT
WAN	WIDE AREA NETWORK
WAO	WORK AREA OUTLET
WAP	WIRELESS ACCESS POINT
WI-FI	WIRELESS FIDELITY
WP	WEATHERPROOF

Telecommunications

- 1-1/4" RACEWAY WITH SINGLE-GANG ADAPTER PLATE AND A/V CABLING.
- TELEPHONE OUTLET WITH (1) CAT6 CABLE TO NEAREST MDF/IDF AND 3/4" C TO ACCESSIBLE CEILING SPACE.
- STANDARD COMMUNICATIONS OUTLET WITH (3) CAT6 CABLE(S) TO NEAREST MDF/IDF AND 1"C TO ACCESSIBLE CEILING SPACE.
- (X) ALTERNATE COMMUNICATIONS OUTLET (X):
  - A= ABOVE COUNTER WITH (3) CAT6 CABLE(S) TO NEAREST MDF/IDF AND 1"C TO ACCESSIBLE CEILING SPACE.
  - C= SINGLE GANG BOX, FLUSH IN CEILING, MOUNTED TO TILE BRIGE WITH (2) CAT6 CABLE(S) TO NEAREST MDF/IDF.
- FLUSH FLOOR COMBINATION COMMUNICATIONS OUTLET WITH (4) UL LISTED, GEL-FILLED CAT6 CABLE(S) TO AND 1" UNDER SLAB CONDUIT TO NEAREST MDF/IDF, UON.
- (X) OUTLET WITH 1" C FLEX CONNECTION TO FURNITURE SYSTEM OR CASEWORK. "X" DENOTES QUANTITY OF CAT6 CABLES.
- POKE-THRU COMBINATION TELE/DATA OUTLET, WITH (3) CAT6 CABLE(S) TO NEAREST MDF/IDF, UON.
- LOCATION FOR FLUSH MOUNT WIRELESS ACCESS POINT OUTLET WITH (1) CAT6 CABLE TO NEAREST MDF/IDF AND 1"C ACCESSIBLE CEILING SPACE, UON.

Electronic Security

- GB CEILING MOUNTED GLASS BREAK SENSOR
- MD CEILING MOUNTED MOTION DETECTION SENSOR
- D DOOR POSITION SWITCH/CONTACT
- L ELECTRIC LATCH CONNECTION
- ES ELECTRIC STRIKE DOOR LOCKS
- H HANDICAP ACCESS BUTTON
- M MAGNETIC DOOR LOCKS
- PANIC BUTTON LOCATION. INSTALL AT +42"
- REX REQUEST TO EXIT DEVICE
- C WALL MOUNTED ACCESS CONTROL CARD READER
- K WALL MOUNTED KEYPAD
- MD WALL MOUNTED MOTION DETECTION SENSOR

Equipment

- 2-POST EQUIPMENT RACK
- 4-POST EQUIPMENT RACK
- DOUBLE-SIDED VERTICAL WIRE MANAGEMENT
- MAJOR EQUIPMENT, CABINETS OR PANELS
- SINGLE-SIDED VERTICAL WIRE MANAGEMENT

Raceways

- CABLE RUNWAY, WIDTH AS INDICATED
- WIRE BASKET TYPE CABLE TRAY, WIDTH AS INDICATED
- CONDUIT AND CONDUCTORS ABOVE GRADE
- CONDUIT AND CONDUCTORS BELOW GRADE OR SLAB
- CONDUIT DOWN
- CONDUIT SLEEVE
- CONDUIT UP
- CONDUIT/WIRING CONTINUATION
- FLEXIBLE CONDUIT
- GROUNDING POINT
- HH HANDHOLE
- PB PULL BOX
- SURFACE RACEWAY
- VT TELECOMMUNICATIONS VAULT
- TELEPHONE BACKBOARD
- TELEPHONE UTILITY POLE
- TELEPHONE/DATA POWER POLE

Reference Symbols

- 1 / XXX DETAIL NUMBER AND SHEET LOCATION
- 1 KEYED NOTES
- A / XXX SECTION NUMBER AND SHEET LOCATION

GENERAL TECHNOLOGY NOTES:

A. COMMUNICATIONS RACEWAYS, TRAYS, AND OUTLETS ARE SHOWN DIAGRAMMATICALLY. LOCATIONS ARE APPROXIMATE UNLESS SPECIFICALLY DIMENSIONED. FIELD COORDINATE ALL WORK WITH OTHER TRADES.

B. CONSTRUCTION DETAILS SHOW TYPICAL INSTALLATION, UON, AND APPLY TO ALL COMMUNICATIONS WORK INCLUDED IN THE SUMMARY OF WORK FOR THIS PACKAGE EVEN THOUGH NOT SPECIFICALLY REFERENCED ON THE PLAN DRAWINGS.

C. THE TECHNOLOGY DRAWINGS ARE PART OF A LARGER SET OF DRAWINGS WHICH, WHEN COMPLETE, CONSISTS OF DRAWINGS LISTED BY THE "INDEX OF DRAWINGS." PARTIAL SETS OF DRAWINGS NOT INCLUSIVE OF ALL DISCIPLINES ARE INCOMPLETE AND SHOULD NOT BE DISTRIBUTED OR UTILIZED.

D. INSTALL PULL STRINGS IN ALL CONDUITS AT THE TIME OF CONDUIT AND CABLE INSTALLATION.

E. COORDINATE ALL DOOR ACCESS CONTROL FUNCTIONS WITH ADA DOOR ACTUATOR FUNCTION SUCH THAT DOOR MOTOR WILL NOT OPERATE WITHOUT PRIOR VALID CARD READ DURING SECURE MODE OPERATION.

SHEET INDEX

T001	SYMBOL LIST AND GENERAL NOTES - TECHNOLOGY
TD200	FIRST FLOOR DEMOLITION PLAN - TECHNOLOGY
T200	FIRST FLOOR PLAN - TECHNOLOGY
T300	ENLARGED PLANS AND SECTIONS - TECHNOLOGY
T500	DETAILS - TECHNOLOGY

GOLETA LIBRARY

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	ISSUED FOR BID	13 OCT 2025

ISSUED FOR BID 13 OCT 2025

Key Plan:

Seal & Signature:

REGISTERED PROFESSIONAL ENGINEER
WESLEY S. LAU
No. E22027
ELECTRICAL
STATE OF CALIFORNIA

Sheet Name:
SYMBOL LIST AND GENERAL NOTES - TECHNOLOGY

Project No.: 24.05	Sheet No.: T001
Drawn By: Author	
Checked By: Checker	
Scale: 12" = 1'-0"	

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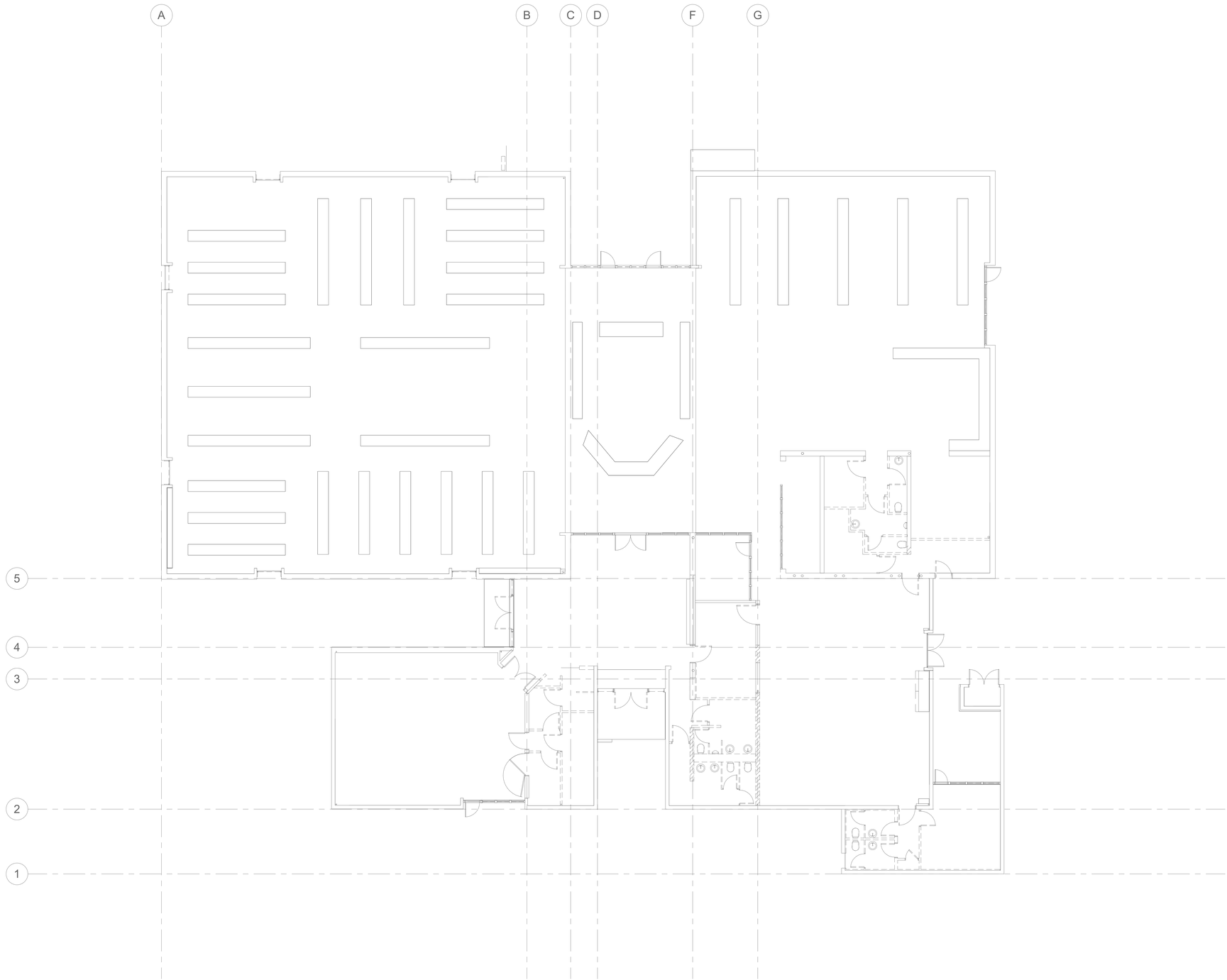
GENERAL SHEET NOTES

A. ALL DATA, LOW VOLTAGE, AND SECURITY CABLING IS TO BE REMOVED COMPLETELY.



1 FIRST FLOOR DEMOLITION PLAN - TECHNOLOGY

0' 4' 8' 16'

1/8" = 1'-0"

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FIRST FLOOR DEMOLITION PLAN - TECHNOLOGY

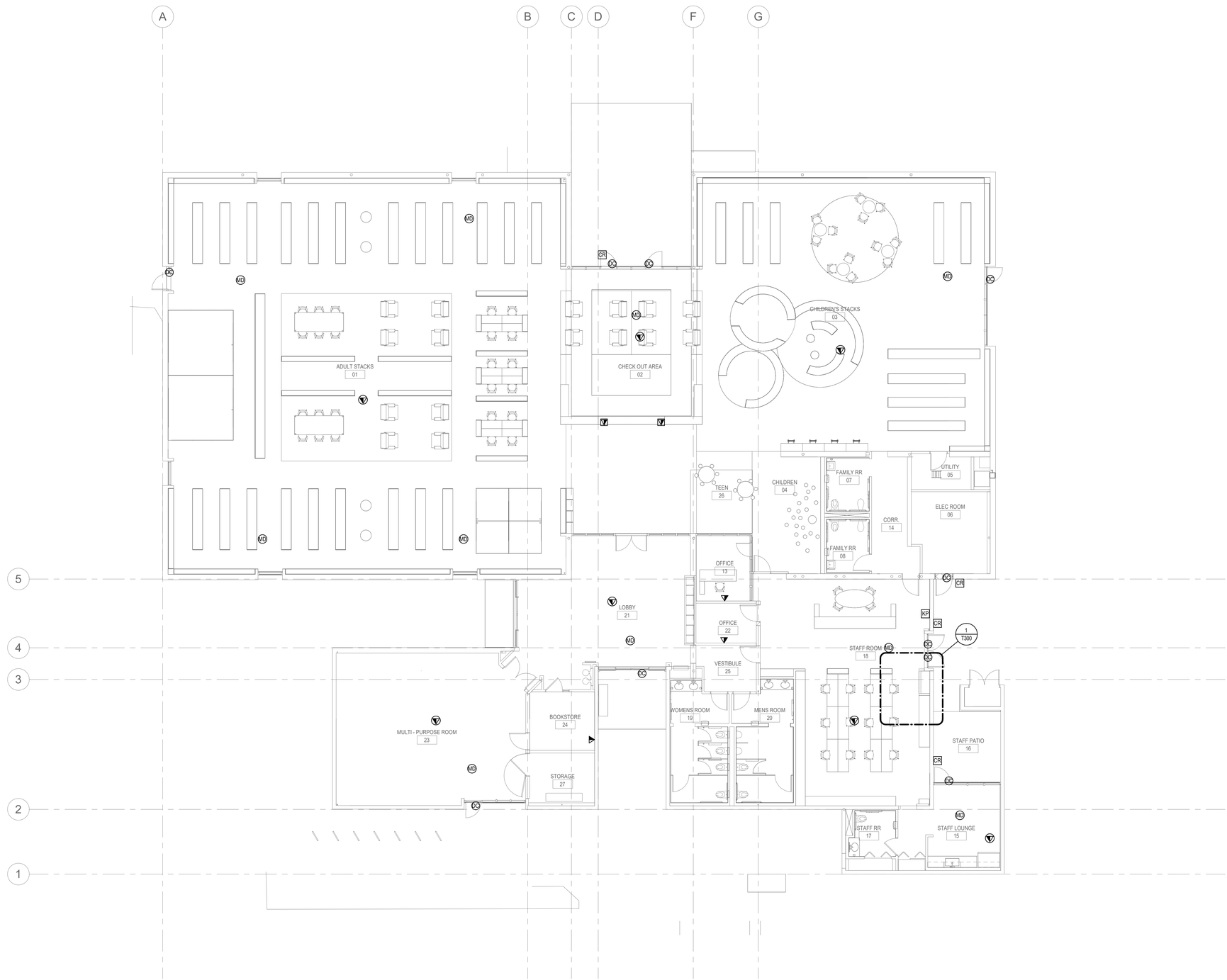
Project No.: 24.05

Drawn By: Author

Checked By: Checker

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

Sheet No.: TD200



1 FIRST FLOOR PLAN - TECHNOLOGY

NORTH

0' 4' 8' 16'

1/8" = 1'-0"

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FIRST FLOOR PLAN - TECHNOLOGY

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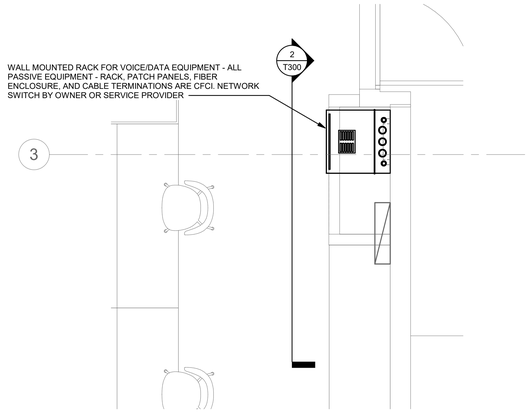
Scale: 1/8" = 1'-0"

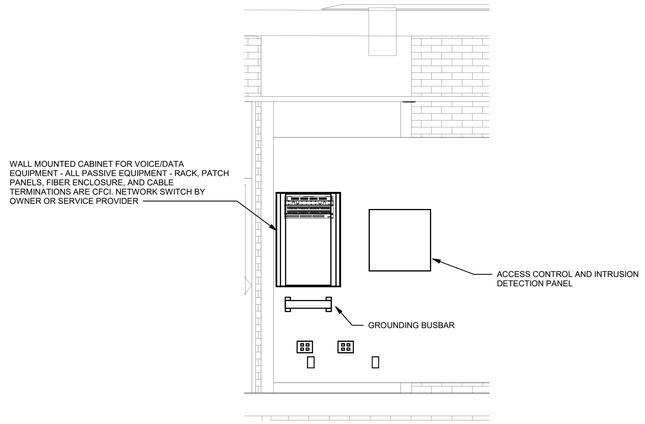
Sheet No.: T200



1 ENLARGED TELCOM CABINET LOCATION

0' 4' 8' 16'

1/2" = 1'-0"



2 WALL ELEVATION - ELEC ROOM

0' 4' 8' 16'

1/2" = 1'-0"

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ENLARGED PLANS AND SECTIONS - TECHNOLOGY

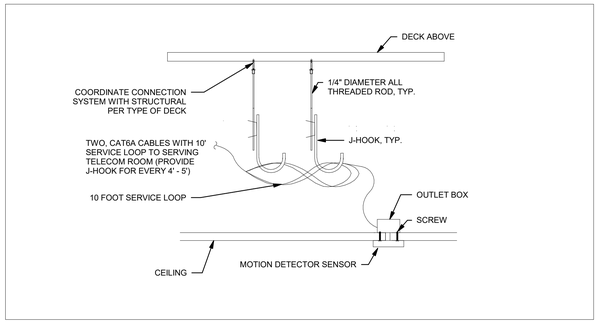
Project No.: 24.05

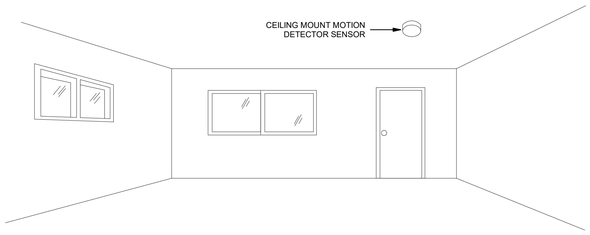
Drawn By: Author

Checked By: Checker

Scale: 1/2" = 1'-0"

Sheet No.: T300



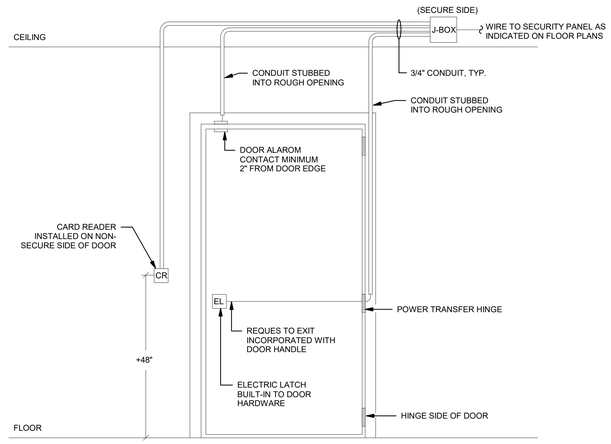


NOTE:
- REFER TO MANUFACTURER'S SPECIFICATIONS FOR OPTIMAL MOUNTING HEIGHT.
- AVOID DIRECTLY FACING WINDOWS.
- AVOID MOUNTING NEARBY FLOURESCENT LIGHTS, HEATING/COOLING RESOURCES, AND MOVING MACHINERY.

1 CEILING MOUNT MOTION DETECTOR SENSOR DETAIL

0' 4' 8' 16'

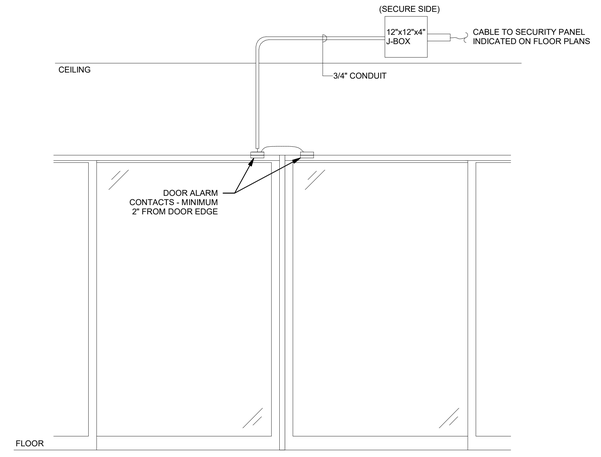
NO SCALE



2 SINGLE DOOR CARD READER DETAIL

0' 4' 8' 16'

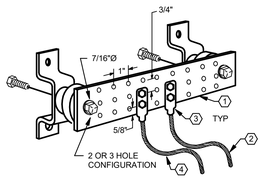
NO SCALE



3 DOUBLE SLIDING DOOR WITH DOOR CONTACT DETAIL

0' 4' 8' 16'

NO SCALE



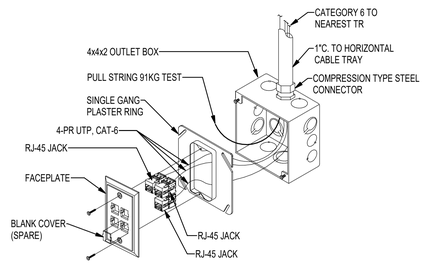
DETAIL KEYNOTES

1. COPPER GROUND BAR, 1/4"x4"x10", HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION.
2. 3/0 BARE COPPER GROUND CONDUCTOR TO MAIN SERVICE EQUIPMENT GROUND OR TBB.
3. 2-HOLE LUG.
4. 3/0 BARE COPPER GROUND CONDUCTOR TO BUILDING STEEL.

4 GROUNDING BAR DETAIL

0' 4' 8' 16'

NO SCALE



5 TYPICAL WORKSTATION OUTLET DETAIL

0' 4' 8' 16'

NO SCALE

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No. E22027
ELECTRICAL
STATE OF CALIFORNIA

Sheet Name:
DETAILS - TECHNOLOGY

Project No.: 24.05
Drawn By: Author
Checked By: Checker
Scale: As indicated

Sheet No.:
T500

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CITY OF GOLETA PUBLIC LIBRARY
INTEGRATED SECURITY SYSTEMS PLANS
500 NORTH FAIRVIEW AVENUE
GOLETA, CALIFORNIA 93117

GENERAL NOTES

1. THE EXISTING INTRUSION ALARM SYSTEM IS OPERATIONAL AND ON-LINE. NOTIFY THE BUILDING OWNER PRIOR TO COMMENCING ANY WORK.
2. PRIMARY POWER SUPPLY SHALL BE PROVIDED BY A DEDICATED, UN-SWITCHED BRANCH CIRCUIT RATED AT NO LESS THAN 20 AMPS, AND PROVIDING 120VAC NOMINAL TO THE INTEGRATED SYSTEMS. CIRCUITS AND CONNECTIONS SHALL BE MECHANICALLY PROTECTED, SHALL BE ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL, AND SHALL BE IDENTIFIED AS "SECURITY SYSTEM CIRCUIT".
3. SECONDARY POWER SUPPLY TO BE PROVIDED BY INTEGRAL BATTERIES SIZED AS INDICATED.
4. THE SECURITY CONTROL PANEL SHALL POWER ALL MOTION DETECTORS AND KEYPADS.
5. ALL CONDUCTORS SHALL BE SOLID COPPER AND MINIMUM 22 AWG.
6. MOTION DETECTORS SHALL BE WALL MOUNTED WITH AN APPROVED MOUNTING BRACKET AT A MINIMUM ELEVATION OF 8-FEET ABOVE THE FINISHED FLOOR.
7. FINAL LOCATION OF MOTION SENSORS SHALL BE BASED ON FINISH CONDITIONS OF THE BUILDING INTERIOR AND IN COORDINATION WITH THE BUILDING OWNER.
8. MOTION DETECTORS SHALL BE INSTALLED USING TAMPER-PROOF SCREWS.
9. ALL WIRING MUST BE DRY AND FREE OF SHORTS AND GROUNDS.
10. 120VAC IS NOT PERMITTED IN THE SAME CONDUIT WITH LOW VOLTAGE WIRING (INTEGRATED SYSTEMS CIRCUITS).
11. ALL WIRING SHALL BE PROTECTED FROM PHYSICAL DAMAGE AND SHALL BE INSTALLED WITHIN WALLS OR CONDUIT AS NECESSARY.
12. UNDERGROUND AND EXTERIOR CONDUITS SHALL BE PROVIDED WITH WATER-TIGHT FITTINGS.
13. SPLICES SHALL BE KEPT AT A MINIMUM. SPLICES SHALL BE MADE IN TERMINAL CABINETS AND JUNCTION BOXES. SPLICES SHALL BE MADE USING TERMINAL STRIPS.
14. THE CONTROL PANELS, POWER SUPPLIES (EXCLUDING THE DOOR LOCK POWER SUPPLY), WIRING AND INSTALLATION, DEVICES AND AND DEVICE TERMINATIONS, CONDUIT, PHYSICAL MOUNTING, ETC., SHALL BE PROVIDED BY THE INSTALLING CONTRACTOR.
15. THE WIRING LAYOUT INDICATED ON THESE DRAWINGS IS DIAGRAMMATIC. CHANGES TO THE WIRING AS SHOWN SHALL BE AND RECORDED ON AS-BUILT DRAWINGS.
16. ALL DEVICE LOCATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR. ALL CHANGES SHALL BE NOTED ON THE PROJECT AS-BUILT DRAWINGS AND MAINTAINED ON SITE UNTIL FINAL ACCEPTANCE.
17. THE CONTRACTOR SHALL PROVIDE 48 HOURS NOTICE TO THE OWNER AND OWNER'S REPRESENTATIVE PRIOR TO SYSTEM TESTING.
18. SPECIAL COORDINATION IS REQUIRED WITH OWNER REGARDING PROGRAMMING REQUIREMENTS AND SEQUENCE OF OPERATION. CONTRACTOR SHALL MEET WITH OWNER REPRESENTATIVES AND SUBMIT PROPOSED LABELS FOR ALL DEVICES AND FUNCTIONS FOR OWNER REVIEW AND COMMENT.
19. CONTRACTOR SHALL PROVIDE FIRESTOPPING AS REQUIRED FOR ALL WALL PENETRATIONS.

INTRUSION ALARM AREAS

THE INTRUSION ALARM SYSTEM SHALL BE PROGRAMMED TO PROVIDE THE FOLLOWING ARM/DISARM AREAS:

AREA #1 LIBRARY INTERIOR.
AREA #2 LIBRARY BOOKSTORE.

SCOPE OF WORK

THE SCOPE OF WORK FOR THIS PROJECT IS TO PROVIDE A NEW INTEGRATED SECURITY SYSTEM (SYSTEM) FOR AN EXISTING PUBLIC LIBRARY. THE SYSTEM SHALL PROVIDE ACCESS CONTROL CAPABILITY AT SELECT DOORS, VIDEO SURVEILLANCE AT INTERIOR COMMON AREAS AND EXTERIOR BUILDING ENTRANCES, AND INTRUSION ALARM CAPABILITY FOR INTERIOR AREAS.

THE ACCESS CONTROL SYSTEM SHALL USE MULTI-FUNCTION CARD READERS WITH SUPPORT FOR MOBILE ID AND NEAR-FIELD CAPABILITIES. THE SYSTEM SHALL MONITOR CONTROLLED DOORS FOR OPEN/CLOSED POSITION, ACTIVATE ELECTRIFIED DOOR LOCKING HARDWARE, AND PROVIDE REQUEST TO EXIT (REX) CAPABILITY USING APPROPRIATE REX DEVICES. THE ACCESS CONTROL SYSTEM SHALL INCLUDE END-USER SERVER/CLIENT APPLICATION SOFTWARE LICENSING AND TRAINING. ACCESS CONTROL LOCATIONS SHOWN ON THESE DRAWINGS ARE ESTIMATES AND ALL FINAL QUANTITIES AND LOCATIONS SHALL BE COORDINATED WITH THE OWNER.

THE VIDEO SURVEILLANCE SYSTEM (VS) SHALL USE POE CAMERAS APPROPRIATE FOR THE INTERIOR AND EXTERIOR LOCATIONS AS SHOWN IN THESE DRAWINGS. THE VS SHALL INCLUDE LOCAL STORAGE AND RETRIEVAL USING A RACK-MOUNTED NETWORK VIDEO STORAGE DEVICE, CLIENT APPLICATION SOFTWARE AND TRAINING, AND HAVE CAPABILITY FOR CLOUD STORAGE.

THE INTRUSION ALARM SYSTEM SHALL CONSIST OF PERIMETER DOOR MONITORING AND INTERIOR MOTION SENSORS AND GLASSBREAK SENSORS. ARM AND DISARMING KEYPAD LOCATIONS SHOWN ON THESE DRAWINGS ARE APPROXIMATE AND ALL FINAL QUANTITIES AND LOCATIONS SHALL BE COORDINATED WITH THE OWNER.

A SEPARATE MONITORING CONTRACT WITH THE OWNER SHALL BE PURSUED DURING CONSTRUCTION TO ENSURE ACTIVATION OF A MONITORED ACCOUNT AT TIME OF COMMISSIONING.

APPLICABLE CODES AND STANDARDS

CALIFORNIA BUILDING CODE, 2022 EDITION

CALIFORNIA ELECTRICAL CODE, 2022 EDITION

CITY OF GOLETA ORDINANCES AND STANDARDS

UL 294 STANDARD FOR ACCESS CONTROL SYSTEM UNITS

UL 2610 COMMERCIAL PREMISES SECURITY ALARM UNITS AND SYSTEMS

ABBREVIATIONS

N	NEW
E	EXISTING
X	DEMOLISH
WP	WEATHERPROOF
IA	INTRUSION ALARM SYSTEM
AC	ACCESS CONTROL SYSTEM
VS	VIDEO SURVEILLANCE SYSTEM

LABEL LEGEND

INTEGRATED SYSTEMS DEVICES

AC-001
- DEVICE NUMBER
- DEVICE TYPE
  - AC = ACCESS CONTROL
  - VS = VIDEO SURVEILLANCE
  - ID = INTRUSION DETECTION

EQUIPMENT LEGEND

SYMBOL	DESCRIPTION
SCP	SECURITY CONTROL PANEL
ACP	ACCESS CONTROL PANEL
APS	ACCESS CONTROL POWER SUPPLY
LPS	DOOR LOCK POWER SUPPLY - BY OTHERS
SKP	SECURITY SYSTEM KEYPAD
DT	DUAL-TECHNOLOGY MOTION SENSOR
REX	REQUEST TO EXIT MOTION SENSOR
GB	GLASS BREAK SENSOR
EB	EXIT BUTTON
C	DOOR POSITION SWITCH
CR	ACCESS CONTROL CARD READER
L	ELECTRIFIED DOOR LOCKING HARDWARE - BY OTHERS
CAM	BULLET CAMERA
CAM WP	BULLET CAMERA WEATHERPROOF
D 180°	INTERIOR DOME CAMERA WITH 180° FIELD OF VIEW
D 360°	INTERIOR DOME CAMERA WITH 360° FIELD OF VIEW
D 180° WP	EXTERIOR DOME CAMERA WITH 180° FIELD OF VIEW

WIRE LEGEND

DESIGNATION	NO. OF CONDUCTORS	SIZE AWG	TYPE	USE
A	2	18	TYPE CM GRAY JACKET, RED & BLACK CONDUCTORS	MOTION DETECTOR POWER (12VDC)
B	2	18	TYPE CM GRAY JACKET, GREEN & WHITE CONDUCTORS	INTRUSION ALARM EXPANSION LOOP
F	4	18	TYPE CM GRAY JACKET, GREEN AND WHITE CONDUCTORS	FIRE ALARM EXPANSION LOOP
G	1	12	THHN	COMMON NEGATIVE
H	4	14	TYPE CM GRAY JACKET, RED & BLACK CONDUCTORS	INTRUSION ALARM HORNS
K	4	18	TYPE CM WHITE JACKET, RED, BLACK, GREEN & WHITE CONDUCTORS	KEYPAD DATA BUS
P	4	18	TYPE CM GRAY JACKET, GREEN & WHITE CONDUCTORS	SENSOR LOOP

NOTES: ALL WIRE SHALL BE PROTECTED IN DEDICATED ALARM CONDUIT UNLESS OTHERWISE NOTED. MAINTAIN 40% MAXIMUM CONDUIT FILL.

UNDERGROUND CABLES AND CONDUCTORS SHALL BE LISTED FOR USE IN WET LOCATIONS. (WEST PENN AQUASEAL OR APPROVED EQUAL.)

A AND B CIRCUITS SHALL BE WITHIN THE SAME CABLE. UNUSED CONDUCTORS SHALL BE TAPED-OFF AS SPARE.

WHERE A 4-CONDUCTOR CABLE IS SPECIFIED, BUT CONNECTIONS REQUIRE ONLY 2 CONDUCTORS, THE UNUSED CONDUCTORS SHALL BE TAPED-OFF AND LABELED AS SPARE.

SHEET INDEX

ITEM	SHEET NUMBER	SHEET DESCRIPTION
1	IS-000	INTEGRATED SYSTEMS COVER SHEET
2	IS-100	INTEGRATED SYSTEMS SITE PLAN
3	IS-200	INTEGRATED SYSTEMS FLOOR PLAN
4	IS-300	INTEGRATED SYSTEMS RISER DIAGRAM
6	IS-400	INTEGRATED SYSTEMS DETAILS
7	IS-401	INTEGRATED SYSTEMS DETAILS

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Sheet Name:
INTEGRATED SYSTEMS - COVER SHEET

Project No.:	Sheet No.:
24.05	IS-000
Drawn By: Author	
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Scale: 12" = 1'-0"	

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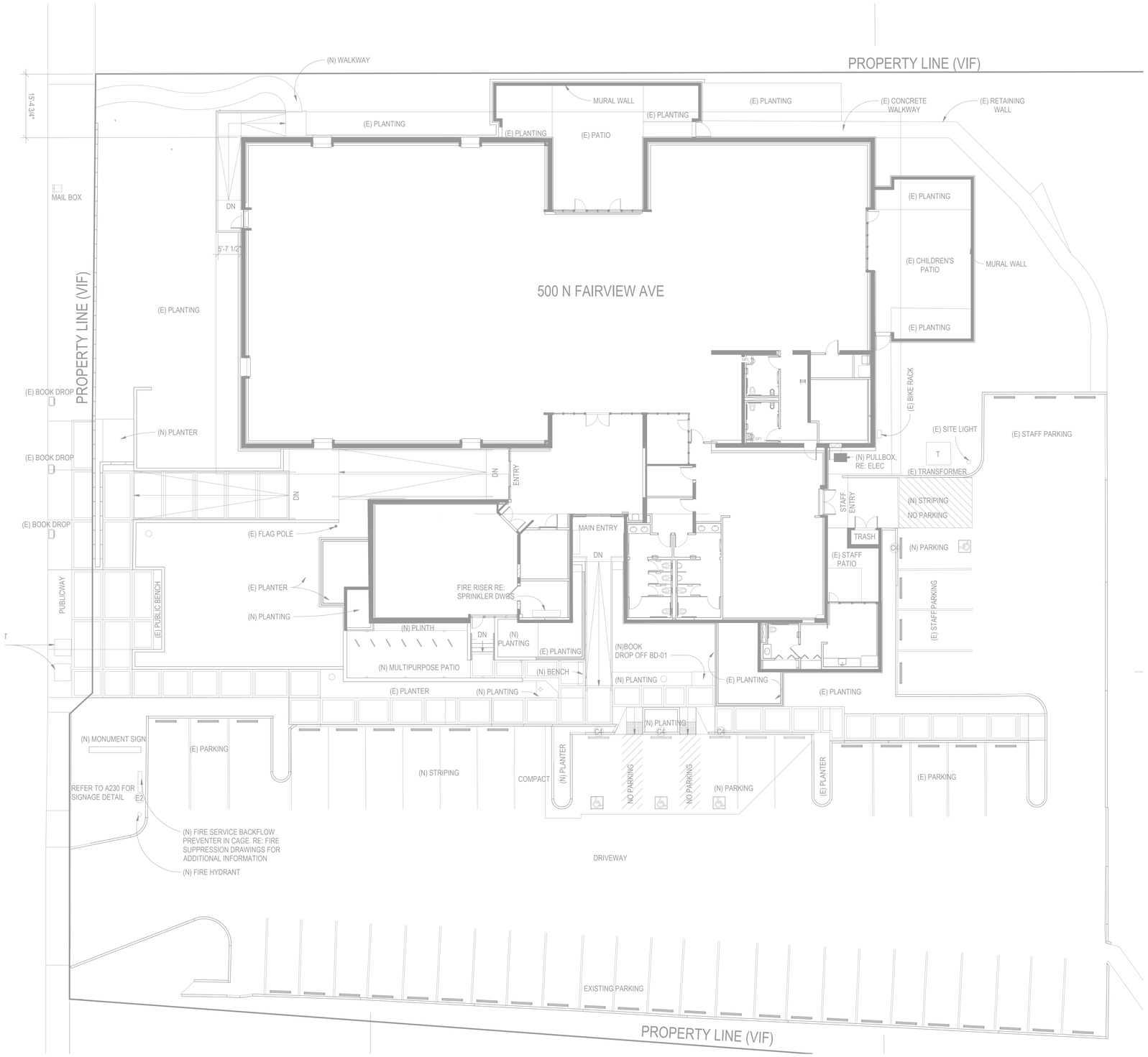

1 IA100 INTEGRATED SYSTEMS SITE PLAN
SCALE: 3/32" = 1'-0"

NORTH

SHEET NOTES

1. REFER TO G3.01 FOR BUILDING DSA APPLICATION NUMBER AND ADDITIONAL BUILDING INFORMATION.
2.

LEGEND

SYMBOL	DESCRIPTION
SCP	SECURITY CONTROL PANEL
ACP	ACCESS CONTROL PANEL
APS	ACCESS CONTROL POWER SUPPLY
LPS	DOOR LOCK POWER SUPPLY - BY OTHERS
SKP	SECURITY SYSTEM KEYPAD
DT	DUAL-TECHNOLOGY MOTION SENSOR
REX	REQUEST TO EXIT MOTION SENSOR
GB	GLASS BREAK SENSOR
EB	EXIT BUTTON
C	DOOR POSITION SWITCH
CR	ACCESS CONTROL CARD READER
L	ELECTRIFIED DOOR LOCKING HARDWARE - BY OTHERS
CAM	BULLET CAMERA
CAM WP	BULLET CAMERA WEATHERPROOF
D 180°	INTERIOR DOME CAMERA WITH 180° FIELD OF VIEW
D 360°	INTERIOR DOME CAMERA WITH 360° FIELD OF VIEW
D 180° WP	EXTERIOR DOME CAMERA WITH 180° FIELD OF VIEW

SIMPLIFIED LEGEND PROVIDED FOR CONVENIENCE ONLY.
SEE COVER SHEET FOR FULL DESCRIPTION OF SYMBOLS.

WIRE LEGEND

DESIGNATION	USE
A	INITIATING DEVICE CIRCUIT
B	KEYPAD CIRCUIT
S	AUDIBLE ALARM CIRCUIT
P	12VDC POWER CIRCUIT

SIMPLIFIED LEGEND PROVIDED FOR CONVENIENCE ONLY.
SEE COVER SHEET FOR FULL DESCRIPTION OF CABLES.

ABBREVIATIONS

(N)	NEW
(E)	EXISTING
(X)	DEMOLISH
(R)	REPLACE EXISTING WITH NEW
(ER)	EXISTING DEVICE TO BE REMOVED AND STORED FOR REINSTALL
WP	WEATHER PROOF
AC	ABOVE CEILING
EOL	END OF LINE (RESISTOR)
NTS	NOT TO SCALE

1. ALL DEVICES ARE EXISTING UNLESS OTHERWISE NOTED. NEW DEVICES, CONDUIT PATHWAYS, AND WIRING ARE SHOWN IN BOLD PRINT. NEW DEVICES ARE NOTED WITH THE "N" ABBREVIATION.
2. CONTRACTOR TO FIELD VERIFY CIRCUITS AND PATHWAYS PRIOR TO ALTERATION.

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	ISSUED FOR PERMIT R1	08 AUG 2025

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Sheet Name:
INTEGRATED SYSTEMS SITE PLAN

Project No.: 24.05
Drawn By: Author
Checked By: Checker
Scale: 12" = 1'-0"

Sheet No.: IS-100

Plotted: 07/28/2025 2:22pm by Matt Hall
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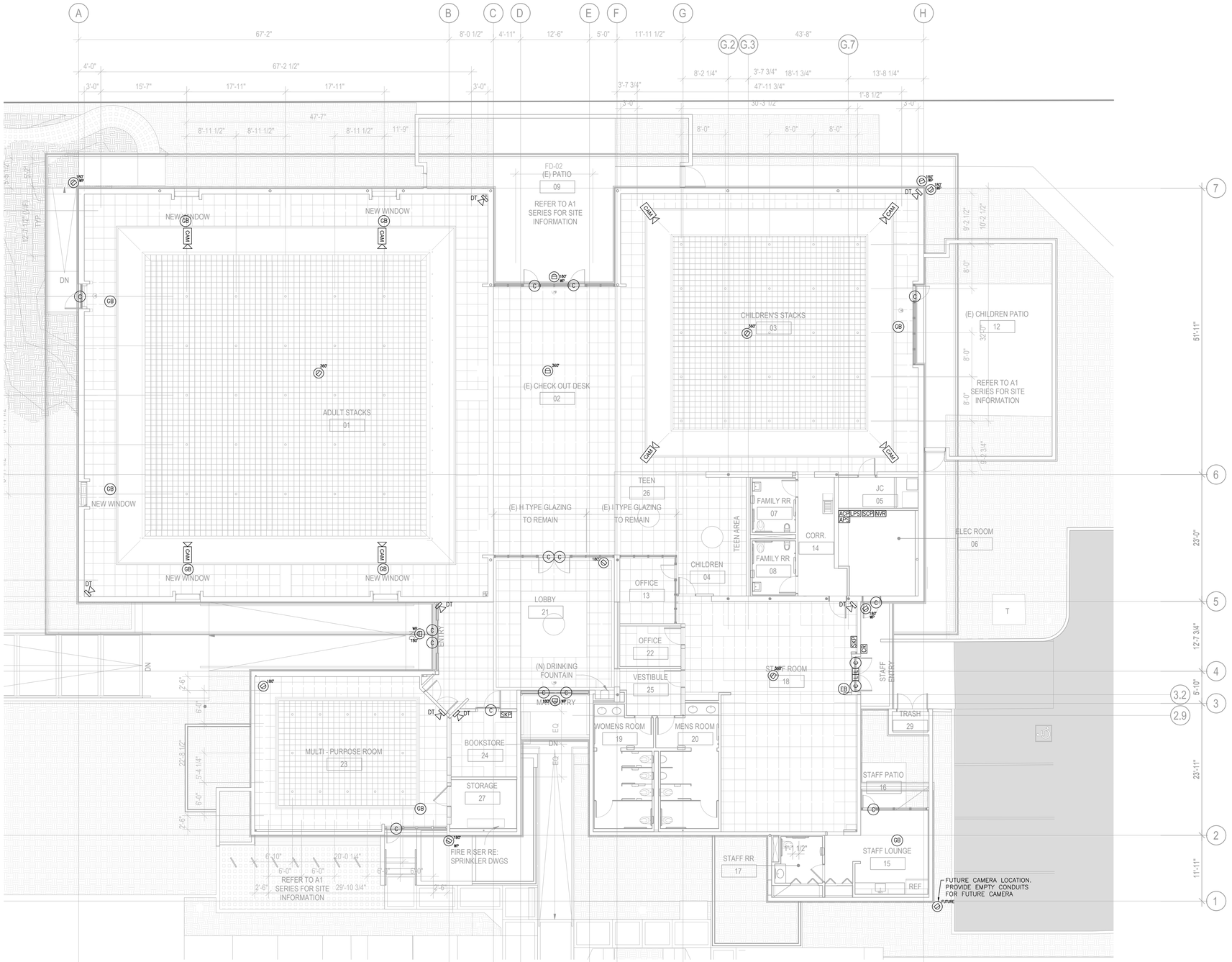

1 IA200 INTEGRATED SYSTEMS - FLOOR PLAN

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

LEGEND

SYMBOL	DESCRIPTION
SCP	SECURITY CONTROL PANEL
ACP	ACCESS CONTROL PANEL
APS	ACCESS CONTROL POWER SUPPLY
LPS	DOOR LOCK POWER SUPPLY - BY OTHERS
SKP	SECURITY SYSTEM KEYPAD
DT	DUAL-TECHNOLOGY MOTION SENSOR
REX	REQUEST TO EXIT MOTION SENSOR
GB	GLASS BREAK SENSOR
EB	EXIT BUTTON
C	DOOR POSITION SWITCH
CR	ACCESS CONTROL CARD READER
L	ELECTRIFIED DOOR LOCKING HARDWARE - BY OTHERS
CAM	BULLET CAMERA
CAM WP	BULLET CAMERA WEATHERPROOF
D 180°	INTERIOR DOME CAMERA WITH 180° FIELD OF VIEW
D 360°	INTERIOR DOME CAMERA WITH 360° FIELD OF VIEW
D 180° WP	EXTERIOR DOME CAMERA WITH 180° FIELD OF VIEW

SIMPLIFIED LEGEND PROVIDED FOR CONVENIENCE ONLY.
SEE COVER SHEET FOR FULL DESCRIPTION OF SYMBOLS.

WIRE LEGEND

DESIGNATION	USE
A	INITIATING DEVICE CIRCUIT
B	KEYPAD CIRCUIT
S	AUDIBLE ALARM CIRCUIT
P	12VDC POWER CIRCUIT

SIMPLIFIED LEGEND PROVIDED FOR CONVENIENCE ONLY.
SEE COVER SHEET FOR FULL DESCRIPTION OF CABLES.

ABBREVIATIONS

(N)	NEW
(E)	EXISTING
(X)	DEMOLISH
(R)	REPLACE EXISTING WITH NEW
(ER)	EXISTING DEVICE TO BE REMOVED AND STORED FOR REINSTALL
WP	WEATHER PROOF
AC	ABOVE CEILING
EOL	END OF LINE (RESISTOR)
NTS	NOT TO SCALE

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2. CONTRACTOR TO FIELD VERIFY CIRCUITS AND PATHWAYS PRIOR TO ALTERATION.

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Project No.:	Sheet No.:
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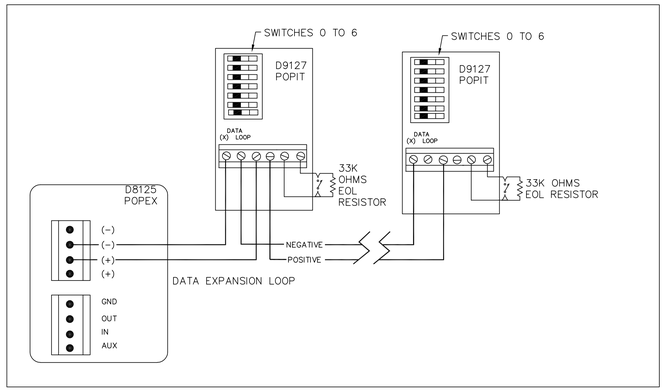
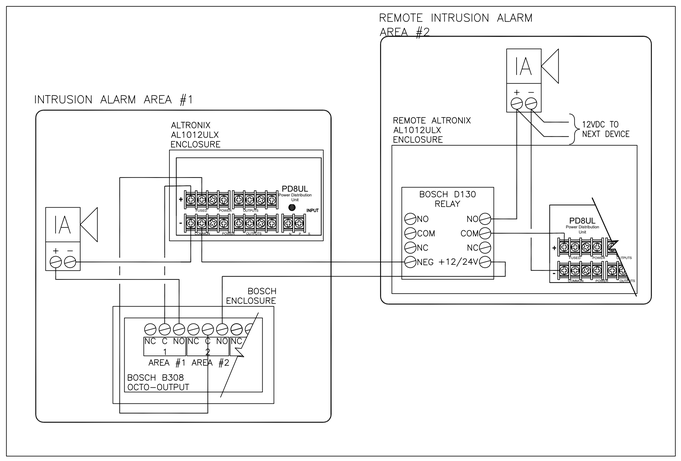
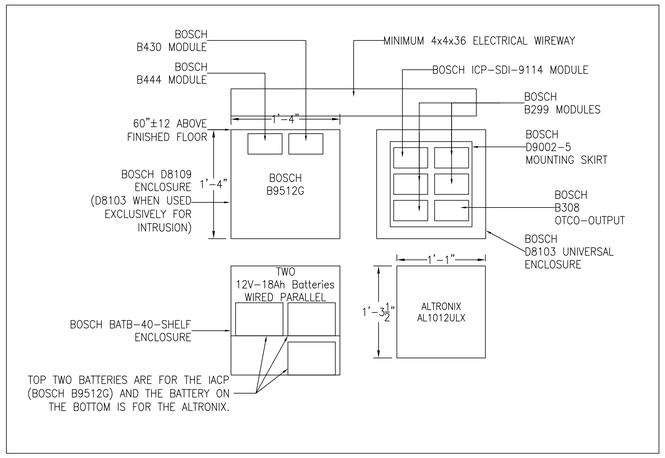


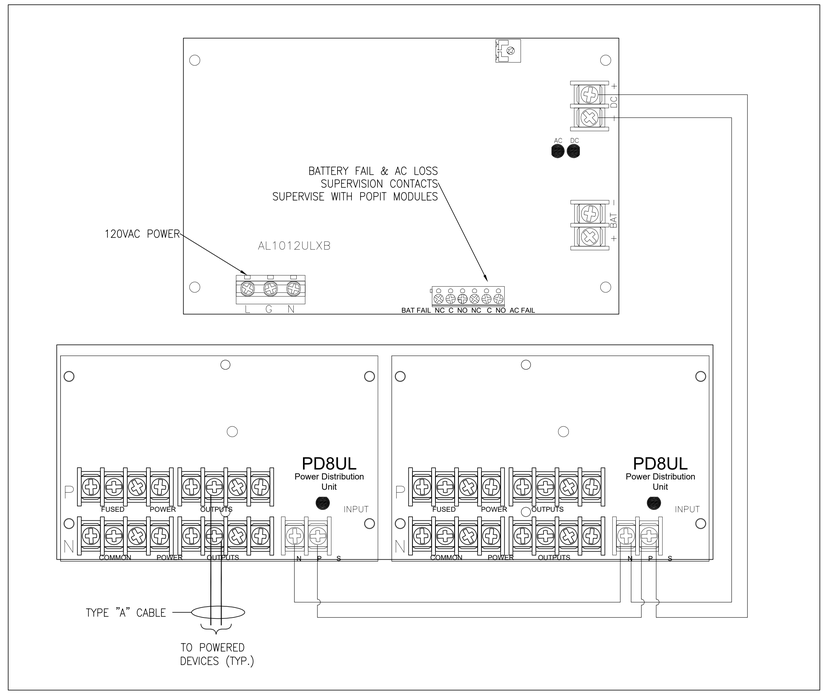
3 IS-500 D9127U POPIT MODULE
SCALE: NOT TO SCALE



4 IS-500 INTRUSION ALARM HORN TYPICAL WIRING DIAGRAM
NTS



5 IS-500 TYPICAL INTRUSION ALARM PANELS LAYOUT
NTS



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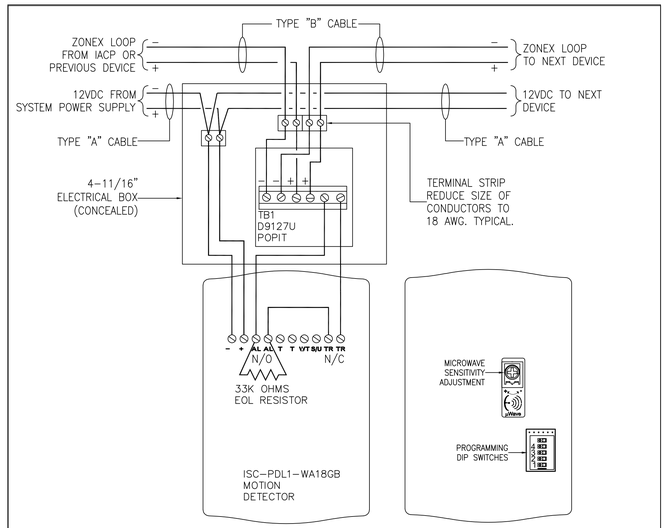
SCALE: NOT TO SCALE



MOTION DETECTOR INSTALLATION CONSIDERATIONS:
- DO NOT MOUNT OUTDOORS.
- DO NOT POINT TOWARD WINDOWS.
- DO NOT INSTALL FACING DIRECT SUNLIGHT.
- DO NOT POINT TOWARDS FIREPLACES OR AIR CONDITIONERS.
- DO NOT INSTALL NEAR MOVING OBJECTS SUCH AS CEILING FANS.
- ADJUST RANGE AND MICROWAVE SENSITIVITY TO FIELD CONDITIONS.

PROGRAMMING SWITCH SETTINGS:
- SW1: OFF (WALK TEST ENABLED)
- SW2: OFF (ALARM MEMORY DISABLED)
- SW3: RANGE (ON=25 FT. OFF=60FT)
- SW4: ON (ANTIMASK ENABLED)

2 IS-500 ISC-PDL1-WA18GB MOTION DETECTOR TYPICAL WIRING DIAGRAM
NTS

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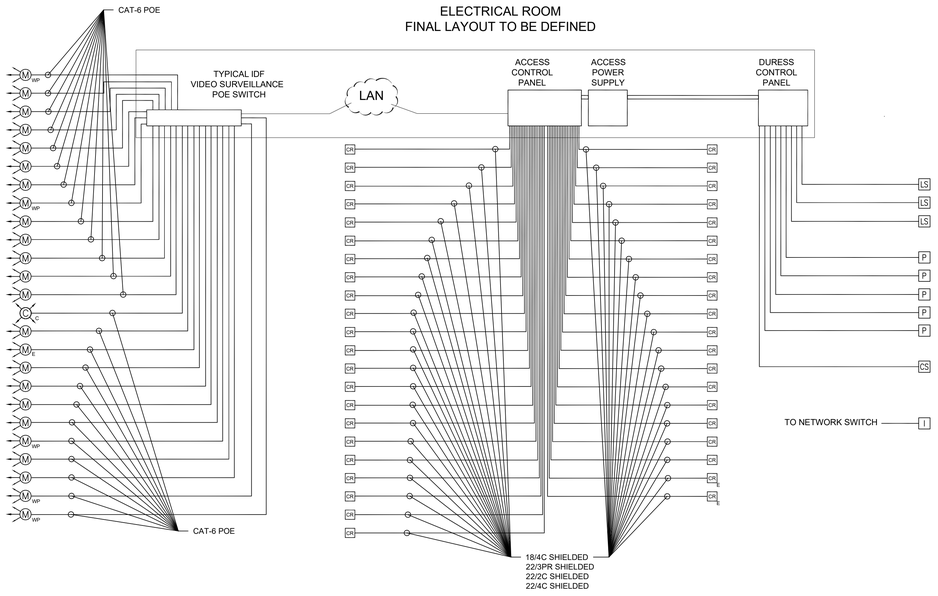

1 IA300 INTEGRATED SYSTEMS - RISER DIAGRAM

SCALE: NONE

SHEET NOTES

1 xxxxx

LEGEND

SYMBOL	DESCRIPTION
SCP	SECURITY CONTROL PANEL
ACP	ACCESS CONTROL PANEL
APS	ACCESS CONTROL POWER SUPPLY
LPS	DOOR LOCK POWER SUPPLY - BY OTHERS
SKP	SECURITY SYSTEM KEYPAD
DT	DUAL-TECHNOLOGY MOTION SENSOR
REX	REQUEST TO EXIT MOTION SENSOR
GB	GLASS BREAK SENSOR
EB	EXIT BUTTON
C	DOOR POSITION SWITCH
CR	ACCESS CONTROL CARD READER
L	ELECTRIFIED DOOR LOCKING HARDWARE - BY OTHERS
CAM	BULLET CAMERA
CAM WP	BULLET CAMERA WEATHERPROOF
D 180°	INTERIOR DOME CAMERA WITH 180° FIELD OF VIEW
D 360°	INTERIOR DOME CAMERA WITH 360° FIELD OF VIEW
D 180° WP	EXTERIOR DOME CAMERA WITH 180° FIELD OF VIEW

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SEE COVER SHEET FOR FULL DESCRIPTION OF SYMBOLS.

WIRE LEGEND

DESIGNATION	USE
A	INITIATING DEVICE CIRCUIT
B	KEYPAD CIRCUIT
S	AUDIBLE ALARM CIRCUIT
P	12VDC POWER CIRCUIT

SIMPLIFIED LEGEND PROVIDED FOR CONVENIENCE ONLY.
SEE COVER SHEET FOR FULL DESCRIPTION OF CABLES.

ABBREVIATIONS

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(E)	EXISTING
(X)	DEMOLISH
(R)	REPLACE EXISTING WITH NEW
(ER)	EXISTING DEVICE TO BE REMOVED AND STORED FOR REINSTALL
WP	WEATHER PROOF
AC	ABOVE CEILING
EOL	END OF LINE (RESISTOR)
NTS	NOT TO SCALE

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2. CONTRACTOR TO FIELD VERIFY CIRCUITS AND PATHWAYS PRIOR TO ALTERATION.

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INTEGRATED SYSTEMS RISER DIAGRAM

Project No.: 24.05
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Sheet No.:
IS-300

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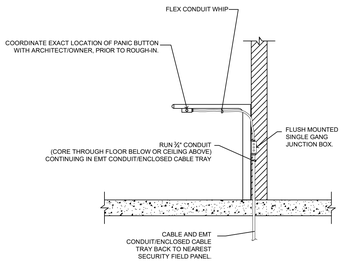
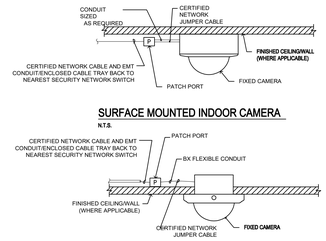


NOTE:

1. CONFIRM ACTUAL LOCATION WITH OWNER AND ARCHITECT PRIOR TO ROUGH-IN.

01 TYP. DESK MOUNTED PANIC BUTTON
SCALE: NTS



SURFACE MOUNTED INDOOR CAMERA
N.T.S.

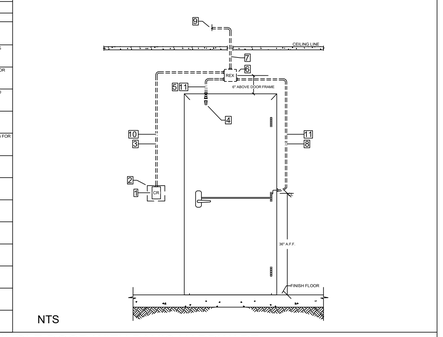
RECESS MOUNTED INDOOR CAMERA
N.T.S.

NOTE:

1. WHENEVER POSSIBLE, THE SECURITY CONTRACTOR SHALL UTILIZE RECESS MOUNTED CAMERAS. IF NOT POSSIBLE, SURFACE MOUNTED CAMERAS SHALL BE UTILIZED.
2. FINAL CAMERA LOCATION AND FIELD-OF-VIEW TO BE COORDINATED WITH ARCHITECT/OWNER.
3. REFER TO PLAN DRAWINGS IF MULTIPLE SENSORS ARE REQUIRED.
4. CAMERA STYLE MAY VARY, SHOWN FOR INFORMATION ONLY.

02 TYP. SURFACE/RECESS MOUNTED INDOOR CAMERA
SCALE: NTS

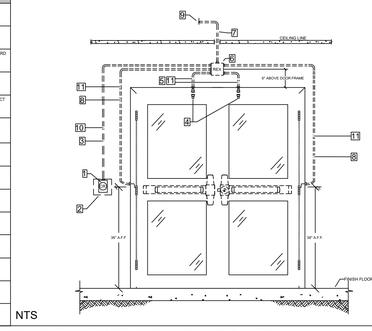
NO.	DESCRIPTION
1	CARD READER P/N: TBD
2	4" SQUARE BOX WITH SINGLE GANG MUD RING P/N: PROVIDED BY OTHERS
3	6-CONDUCTOR 22 AWG SHIELDED CABLE FOR CARD READER OR COMPOSITE CABLE P/N: TBD
4	MAGNETIC DOOR CONTACT INSTALLED INTO THE DOOR FRAME P/N: TBD
5	2-CONDUCTOR 22 AWG CABLE FOR DOOR CONTACT OF COMPOSITE CABLE P/N: TBD
6	4" SQUARE BOX W/ SINGLE GANG MUD RING FOR REQUEST-TO-EXIT ON SECURED SIDE (MOUNTED HORIZONTALLY) P/N: BOSCH: DS160 W/ TP160
7	P/N: TBD
8	4-CONDUCTOR 18 AWG CABLE FOR ELECTRIC LOCKING HARDWARE P/N: TBD
9	COMPOSITE ACCESS CONTROL CABLE FROM ACCESS DOOR CONTROLLER P/N: N/A
10	3/4" CONDUIT P/N: PROVIDED BY OTHERS
11	1/2" CONDUIT P/N: PROVIDED BY OTHERS
12	P/N:
13	P/N:
14	P/N:



NTS

03 TYP. SINGLE DOOR WITH PANIC HARDWARE
SCALE: NTS
HARDWARE SETS:
REFER TO FLOOR PLANS FOR DOOR SWING & CARD READER LOCATION

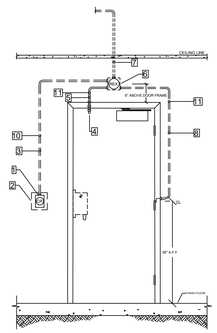
NO.	DESCRIPTION
1	CARD READER P/N: TBD
2	4" SQUARE BOX WITH SINGLE GANG MUD RING P/N: PBO
3	6-CONDUCTOR 22 AWG. SHIELDED CABLE FOR CARD READER OF COMPOSITE (2) CABLE P/N: TBD
4	MAGNETIC DOOR POSITION SWITCH, EMBEDDED IN DOOR FRAME P/N: TBD
5	2-CONDUCTOR 22 AWG CABLE FOR DOOR CONTACT OF COMPOSITE (2) CABLE P/N: TBD
6	4" SQUARE BOX W/ SINGLE GANG MUD RING FOR REQUEST-TO-EXIT ON SECURED SIDE (MOUNTED HORIZONTALLY) P/N: TBD
7	4 CONDUCTOR 22 AWG CABLE FOR REQUEST-TO-EXIT OF COMPOSITE (2) CABLE P/N: TBD
8	4-CONDUCTOR 18 AWG CABLE FOR ELECTRIC LOCKING HARDWARE P/N: PBO
9	TO CONTROL PANEL
10	3/4" CONDUIT P/N: PROVIDED BY OTHERS
11	1/2" CONDUIT P/N: PROVIDED BY OTHERS
12	
13	P/N:
14	P/N:



NTS

04 TYP. GLASS DOUBLE DOOR W/PANIC HARDWARE
SCALE: NTS
HARDWARE SETS:
REFER TO FLOOR PLANS FOR DOOR SWING & CARD READER LOCATION

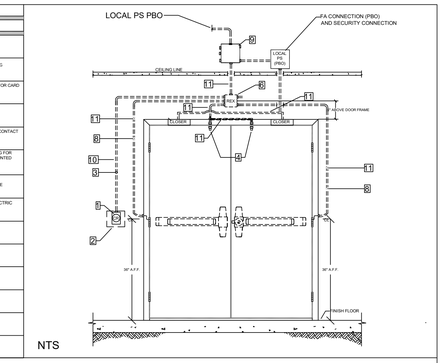
NO.	DESCRIPTION
1	CARD READER P/N: TBD
2	4" SQUARE BOX WITH SINGLE GANG MUD RING P/N: PBO
3	6-CONDUCTOR 22 AWG. SHIELDED CABLE FOR CARD READER OF COMPOSITE (2) CABLE P/N: TBD
4	MAGNETIC DOOR POSITION SWITCH, EMBEDDED IN DOOR FRAME P/N: TBD
5	2-CONDUCTOR 22 AWG CABLE FOR DOOR CONTACT OF COMPOSITE (2) CABLE P/N: TBD
6	4" SQUARE BOX W/ SINGLE GANG MUD RING FOR REQUEST-TO-EXIT ON SECURED SIDE (MOUNTED HORIZONTALLY) P/N: TBD
7	4 CONDUCTOR 22 AWG CABLE FOR REQUEST-TO-EXIT OF COMPOSITE (2) CABLE P/N: TBD
8	4-CONDUCTOR 18 AWG CABLE FOR ELECTRIC LOCKING HARDWARE P/N: PBO
9	5" SQUARE BOX P/N: PROVIDED BY OTHERS
10	3/4" CONDUIT P/N: PROVIDED BY OTHERS
11	1/2" CONDUIT P/N: PROVIDED BY OTHERS
12	
13	P/N:
14	P/N:



NTS

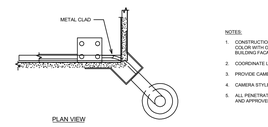
05 TYP. SINGLE DOOR WITH MORTISE LOCK
SCALE: NTS
HARDWARE SETS:
REFER TO FLOOR PLANS FOR DOOR SWING & CARD READER LOCATION

NO.	DESCRIPTION
1	CARD READER P/N: TBD
2	4" SQUARE BOX WITH SINGLE GANG MUD RING P/N: PBO
3	6-CONDUCTOR 22 AWG. SHIELDED CABLE FOR CARD READER OF COMPOSITE (2) CABLE P/N: TBD
4	MAGNETIC DOOR POSITION SWITCH, EMBEDDED IN DOOR FRAME P/N: TBD
5	2-CONDUCTOR 22 AWG CABLE FOR DOOR CONTACT OF COMPOSITE (2) CABLE P/N: TBD
6	4" SQUARE BOX W/ SINGLE GANG MUD RING FOR REQUEST-TO-EXIT ON SECURED SIDE (MOUNTED HORIZONTALLY) P/N: TBD
7	4 CONDUCTOR 22 AWG CABLE FOR REQUEST-TO-EXIT OF COMPOSITE (2) CABLE P/N: TBD
8	4-CONDUCTOR 18 AWG CABLE FOR ELECTRIC LOCKING HARDWARE P/N: PBO
9	5" SQUARE BOX P/N: PROVIDED BY OTHERS
10	3/4" CONDUIT P/N: PROVIDED BY OTHERS
11	1/2" CONDUIT P/N: PROVIDED BY OTHERS
12	
13	P/N:
14	P/N:



NTS

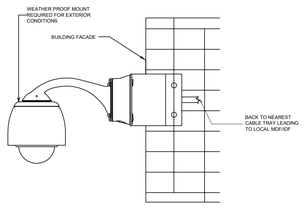
06 TYP. DOUBLE DOOR WITH PANIC HARDWARE/ ELECTRIC CLOSERS
SCALE: NTS
HARDWARE SETS:
REFER TO FLOOR PLANS FOR DOOR SWING & CARD READER LOCATION



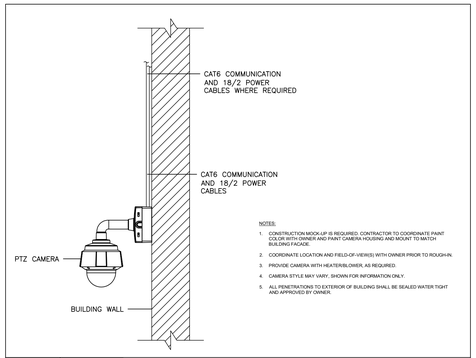
NOTES:

1. CONSTRUCTION MOCK-UP IS REQUIRED. CONTRACTOR TO COORDINATE PAINT COLOR WITH OWNER AND PAINT CAMERA HOUSING AND MOUNT TO MATCH BUILDING FACADE.
2. COORDINATE LOCATION AND FIELD-OF-VIEW(S) WITH OWNER PRIOR TO ROUGH-IN.
3. PROVIDE CAMERA WITH HEATER/BLOWER, AS REQUIRED.
4. CAMERA STYLE MAY VARY, SHOWN FOR INFORMATION ONLY.
5. ALL PENETRATIONS TO EXTERIOR OF BUILDING SHALL BE SEALED WATER TIGHT AND APPROVED BY OWNER.

PLAN VIEW



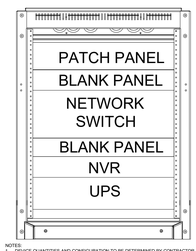
07 TYP. WALL/CORNER MOUNTED EXTERIOR CAMERA
SCALE: NTS



NOTES:

1. CONSTRUCTION MOCK-UP IS REQUIRED. CONTRACTOR TO COORDINATE PAINT COLOR WITH OWNER AND PAINT CAMERA HOUSING AND MOUNT TO MATCH BUILDING FACADE.
2. COORDINATE LOCATION AND FIELD-OF-VIEW(S) WITH OWNER PRIOR TO ROUGH-IN.
3. PROVIDE CAMERA WITH HEATER/BLOWER, AS REQUIRED.
4. CAMERA STYLE MAY VARY, SHOWN FOR INFORMATION ONLY.
5. ALL PENETRATIONS TO EXTERIOR OF BUILDING SHALL BE SEALED WATER TIGHT AND APPROVED BY OWNER.

08 TYP. WALL/CORNER MOUNTED EXTERIOR CAMERA
SCALE: NTS



NOTES:

1. DEVICE QUANTITIES AND CONFIGURATION TO BE DETERMINED BY CONTRACTOR BASED ON SPECIFICATION AND MANUFACTURER REQUIREMENTS.
2. CONTRACTOR TO VERIFY MOUNTING WITH ARCHITECT/OWNER PRIOR TO ROUGH-IN.
3. GENERAL LAYOUT SHOWN FOR INFORMATION, ACTUAL LAYOUT MAY VARY.
4. TO BE KEY LOCKABLE AND EQUIPPED WITH A TAMPER SWITCH.

09 HEAD END EQUIPMENT RACK IN ROOMS IT 301 AND IT SERVER ROOM 233
SCALE: NTS

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	100% SCHEMATIC DESIGN	11 OCT 2024
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	ISSUED FOR PERMIT R1	08 AUG 2025

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INTEGRATED SYSTEMS - DETAILS

Project No.: 24.05
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Checked By: Checker
Scale: 12" = 1'-0"

Sheet No.: IS-401

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