TRANQUILLITY HIGH SCHOOL
INCREMENT 1 AQUATIC CENTER MODERNIZATION
GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123309 INC: 1
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 9/30/2025

PTN: 75234-53 DSA FILE NO.: #10-H24 DSA APP NO.: #02-123309

1. A COPY TITLE 24 C.C.R. PARTS 1 AND 2 SHALL BE KEPT BY THE CONTRACTOR ON THE JOB SITE AT ALL TIMES.
2. THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO CONSTRUCT THE PROJECT IN ACCORDANCE WITH TITLE 24 C.C.R. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH SAID TITLE 24, C.C.R., A CHANGE ORDER DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.
3. NO CHANGES OR REVISIONS SHALL BE MADE FOLLOWING WRITTEN APPROVAL BY THE OWNER OR ARCHTECT WHICH AFFECTS STRUCTURAL, ACCESS COMPLIANCE OR FIRE LIFE & SAFETY ITEMS UNLESS SUCH CHANGES OR REVISIONS ARE SUBMITTED TO THE DSA FOR APPROVAL.
4. CHANGES, SUBSTITUTIONS OR ADDENDA MADE TO THE STRUCTURAL, ACCESSIBILITY OR FIRE AND LIFE-SAFETY PORTIONS OF THE APPROVED PLANS AND SPECIFICATIONS AFTER THE WORK HAS BEEN APPROVED BY DSA SHALL BE MADE BY A CONSTRUCTION CHANGE DOCUMENT (CCD) AS REQUIRED IN SECTION 4-338, PART I, CAC, AND SHALL BE SUBMITTED TO, AND APPROVED BY DSA PRIOR TO COMMENCEMENT OF THE WORK, FABRICATION OR USE. CONSTRUCTION CHANGE DOCUMENTS SHALL BE PREPARED AND SUBMITTED TO DSA IN COMPLIANCE WITH DSA INTERPRETATION OF REGULATION IR A-6.
5. ADDENDA MUST BE SIGNED BY ARCHITECT AND APPROVED BY DSA.
6. CONSTRUCTION CHANGE DOCUMENTS MUST BE SIGNED BY THE FOLLOWING:
   - ARCHITECT OR ENGINEER OF RECORD
   - STRUCTURAL ENGINEER (WHEN APPLICABLE)
   - DELEGATED PROFESSIONAL ENGINEER
7. ALL TESTS AND INSPECTIONS ARE TO CONFORM TO THE REQUIREMENTS OF TITLE 24 SECTION 4-335, PART 1, AND APPROVED T & I SHEET.
8. TESTS OF MATERIALS AND TESTING LABORATORY SHALL BE IN ACCORDANCE WITH TITLE 24 SECTION 4-335, PART I, AND THE DISTRICT SHALL EMPLOY AND PAY THE LABORATORY. COSTS OF RETEST MAY BE BACK CHARGED TO THE CONTRACTOR AT OWNER AND ARCHITECTS REQUEST.
9. DSA SHALL BE NOTIFIED BY THE SCHOOL DISTRICT AND/OR ARCHITECT AT THE START OF CONSTRUCTION AND PRIOR TO THE PLACEMENT OF THE CONCRETE PER TITLE 24 SECTION 4-331, PART I.
10. A CLASS 2 INSPECTOR SHALL BE REQUIRED FOR THIS PROJECT, EMPLOYED BY OWNER. THE INSPECTOR SHALL BE APPROVED BY ARCHITECT, STRUCTURAL ENGINEER, AND DSA. INSPECTOR SHALL BE IN ACCORDANCE WITH SECTION 4-333(c). THE DUTY OF THE INSPECTOR SHALL BE IN ACCORDANCE WITH TITLE 24 SECTION 4-342, PART I.
11. SUPERVISION OF CONSTRUCTION BY DSA SHALL BE IN ACCORDANCE WITH TITLE 24 SECTION 4-334, PART 1.
12. CONTRACTOR, INSPECTOR, ARCHITECT, AND ENGINEERS SHALL SUBMIT VERIFIED REPORTS (DSA FORM 6-AE) IN ACCORDANCE WITH TITLE 24 SECTION 4-336, PART I.
13. THE ARCHITECT AND THE STRUCTURAL ENGINEER SHALL PERFORM THEIR DUTIES IN ACCORDANCE WITH TITLE 24 SECTION 4-333(a) AND 4-341, PART I.
14. THE CONTRACTOR SHALL PERFORM HIS DUTIES IN ACCORDANCE WITH TITLE 24 SECTION 4-343, PART I.
15. MATERIALS AND THEIR INSTALLATION SHALL COMPLY WITH APPLICABLE CODES, STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.
16. THESE PLANS AND SPECIFICATIONS WILL COMPLY WITH CFC CHAPTER 33 FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION.
17. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
18. DSA IS NOT SUBJECT TO ARBITRATION.
19. ALL CONSTRUCTION AND DEMOLITION SHALL BE IN ACCORDANCE WITH CHAPTER 33 OF THE CBC AND CFC, AND THE WRITTEN SITE SAFETY PLAN. CONTRACTOR SHALL PROVIDE A SITE SAFETY PLAN FOR ALL CONSTRUCTION AND DEMOLITION

    THE SAFETY PLAN SHALL INCLUDE BUT NOT LIMITED TO THE FOLLOWING:
    - NAME AND CONTACT INFORMATION OF SITE SAFETY DIRECTOR
    - DOCUMENTATION OF TRAINING OF THE SITE SAFETY DIRECTOR AND FIRE WATCH PERSONEL
    - PROCEDURES FOR REPORTING EMERGENCIES
    - FIRE DEPARTMENT VEHICLE ACCESS ROUTES
    - LOCATIONS OF FIRE PROTECTION EQUIPMENT, INCLUDING PORTABLE FIRE EXTINGUISHER, STANDPIPES, FIRE DEPARTMENT CONNECTIONS AND FIRE HYDRANTS
    - SMOKING AND COOKING POLICIES, DESIGNATED AREA TO BE USED WHERE APPROVED, AND SIGNAGE LOCATIONS IN ACCORDANCE WITH CFC SECTION 3305.8
    - LOCATIONS AND SAFETY CONSIDERATIONS FOR TEMPORARY HEATING EQUIPMENT
    - HOT WORK (WELDING, ROOFING, ETC.) PLAN.
    - PLANS FOR CONTROL OF COMBUSTIBLE WASTE
    - LOCATIONS AND METHODS FOR STORAGE AND USE OF FLAMMABLE AND COMBUSTIBLE LIQUIDS AND OTHER HAZARDOUS MATERIALS
    - PROVISIONS FOR SITE SECURITY
    - CHANGES THAT AFFECT THIS PLAN
    - OTHER SITE - SPECIFIC INFORMATION REQUESTED BY THE LOCAL FIRE AUTHORITY (LFA)
20. FRESNO COUNTY HEALTH DEPARTMENT

    ANY ADDITIONAL CHANGES OR ADDENDUM TO THESE PLANS MUST BE APPROVED BY HEALTH DEPARTMENT OFFICE PRIOR TO CONSTRUCTION.

    DURING CONSTRUCTION, THE FOLLOWING PROGRESS INSPECTIONS ARE REQUIRED
    - EXPOSED PLUMBING/PRE-GUNITE
    - PRE-PLASTER
    - FINAL

    BEFORE PERMIT INSSUANCE, THE PERMIT FEE MUST BE PAID AND FINAL INSPECTION COMPLETED.

GENERAL NOTES

AGD ARCHITECTURE | DESIGN

ANDREW GOODWIN DESIGNS
1238 MONTEREY STREET
SAN LUIS OBISPO, CA 93422
t: (805) 439-1611
www.andrewgoodwin.us

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REVISIONS

REV #	REV DATE	REV DESCRIPTION

SEAL

LICENSED ARCHITECT
ANTONIO PAVONE
C-39058
REN: 9/30/2025
STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
INCREMENT 1 AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

COVER

PHASE DESCRIPTION
100% CD - DSA APPROVAL
INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: RT / JL
PROJECT MANAGER: TP
JOB NUMBER: 791

SHEET NUMBER
G0.00-1

PLOT DATE: 9/19/2025 5:36:01 PM

FOR ARCHITECTS/ENGINEERS WHO UTILIZE PLANS, INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS.

APPLICATION NO:. 02-123309 **FILE NO:** 10 - H24

- ■ THE DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX SHEET
- ■ THIS DRAWING, PAGE OF SPECIFICATIONS/CALCULATIONS

HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. IT HAS BEEN EXAMINED BY ME FOR:

1. DESIGN INTENT AND APPEARS TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME, AND
2. COORDINATION WITH MY PLANS AND SPECIFICATIONS AND IS ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT.

THE STATEMENT OF GENERAL CONFORMANCE "SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS, DUTIES, AND RESPONSIBILITIES UNDER SECTIONS 17302 AND 81138 OF THE EDUCATION CODE AND SECTIONS 4-336, 4-341, AND 4-344" (TITLE 24, PART, SECTION 4-316 (b))

I CERTIFY THAT:

- ■ ALL DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX
- ☐ THIS DRAWING OR PAGE
- ■ IS/ARE IN GENERAL CONFORMANCE AND HAVE BEEN COORDINATED

9/24/2025

ARCHITECT'S SIGNATURE **DATE**

ANTONIO PAVONE
PRINCIPAL ARCHITECT
ANDREW GOODWIN DESIGNS

C39058 09/30/2025

LICENSE NUMBER **EXPIRATION DATE**

STATEMENT OF GENERAL CONFORMANCE

OWNER
GOLDEN PLAINS USD
22000 NEVADA STREET
SAN JOAQUIN, CA, 93660
PHONE: (559) 210-5801
CONTACT: FELIPE PIEDRA
EMAIL: fpiedra@gpusd.org

PROJECT ARCHITECT
ANDREW GOODWIN DESIGNS
1238 MONTEREY STREET
SAN LUIS OBISPO, CA 93401
(559) 439-1611
CONTACT: TONY PAVONE
E-MAIL: tony@andrewgoodwin.us

AQUATIC CONSULTANT
RS+M DESIGN ENGINEERING
1981 NORTH BROADWAY, SUITE 202
WALNUT CREEK, CA, 94596
PHONE (925) 217-6619
CONTACT: BERNIE ROGERS
EMAIL: bernie.rogers@rsm-de.com

CIVIL ENGINEER / LANDSCAPE
BLAIR, CHURCH & FLYNN
451 CLOVIS AVE, SUITE 200
CLOVIS, CA, 93612
PHONE (559) 326-1400
CONTACT: LANE BADER
EMAIL: lbader@bcf-engr.com

STRUCTURAL ENGINEER
BUEHLER ENGINEERING INC.
811 EL CAPITAN WAY, SUITE 240
SAN LUIS OBISPO, CA 93401
(805) 439-2110
CONTACT: MICHAEL PAROLINI
E-MAIL: mparolini@buehlerengineering.com

MECHANICAL/PLUMBING ENGINEER
3C ENGINEERING INC.
1500 PALM STREET
SAN LUIS OBISPO, CA 93401
(805) 540-3383
CONTACT: BRIAN STARRETT, PE
E-MAIL: bstarrett@3ceng.com

ELECTRICAL ENGINEER
AURUM CONSULTING ENGINEERS, INC.
1798 TECHNOLOGY DRIVE, SUITE 242
SAN JOSE, CA 95110
(831) 646-3336
CONTACT: NAJIB ANWARY P.E LEED AP (BD+C)
E-MAIL: najib@acemb.com

PROJECT DIRECTORY

INCREMENT 1:
TRANQUILLITY HIGH SCHOOL AQUATIC CENTER MODERNIZATION CONSISTS OF NEW POOL EQUIPMENT BUILDING 'P', MODERNIZATION OF DIVE POOL (DSA A# 33437) CONVERSION INTO A LEARN TO SWIM POOL, NEW 10-LANE MODULAR SWIMMING POOL, NEW FABRIC SHADE STRUCTURE, NEW PC APPROVED SCOREBOARD, NEW WATERSLIDE, NEW SPLASH PAD AREA, LANDSCAPING, AND CONCRETE POOL DECK, AND NEW UTILITIES, AND ASSOCIATED SITE ACCESS. MINOR ELECTRICAL IMPROVEMENTS TO EXISTING BUILDING 'B' & 'G'
INCREMENT 2:
TRANQUILLITY HIGH SCHOOL AQUATIC CENTER MODERNIZATION CONSIST OF NEW 2,020 SF OF NEW CONCESSIONS AND NEW 2,880 SF BUILDING CLASSROOM

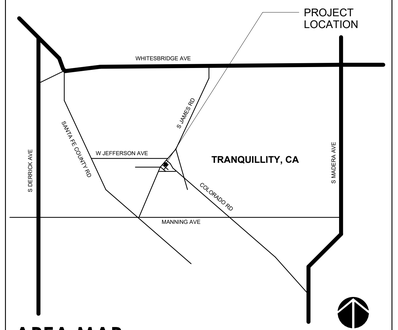
PROJECT DESCRIPTION

'NONE'

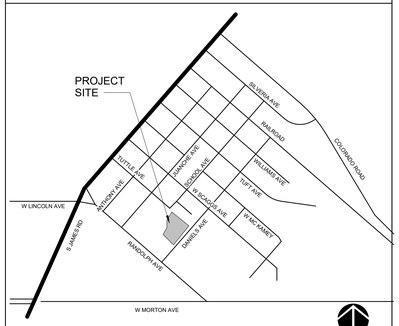
DEFERRED SUBMITTAL

2025 CALIFORNIA ADMINISTRATIVE CODE (CAC), C.C.R. TITLE 24, PART 1
2022 CALIFORNIA BUILDING CODE (CBC), C.C.R. TITLE 24, PART 2
2022 CALIFORNIA ELECTRICAL CODE (CEC), C.C.R. TITLE 24, PART 3
2022 CALIFORNIA MECHANICAL CODE (CMC), C.C.R. TITLE 24, PART 4
2022 CALIFORNIA PLUMBING CODE (CPC), C.C.R. TITLE 24, PART 5
2022 CALIFORNIA FIRE CODE (CFC), C.C.R. TITLE 24, PART 9
2022 CALIFORNIA REFERENCED STANDARDS CODE, C.C.R. TITLE 24, PART 12
2022 CALIFORNIA ENERGY CODE (CAC), C.C.R. TITLE 24, PART 6
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), C.C.R. TITLE 24, PART 11
C.C.R., TITLE 19 PUBLIC SAFETY
NFPA 13-22 STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (AS AMENDED)
NFPA 24-22 INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (AS AMENDED)
NFPA 25-13CA (CALIFORNIA NFPA 25 EDITION) INSPECTION, TESTING, AND MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS
NFPA 72-22 NATIONAL FIRE ALARM AND SIGNALING CODE (AS AMENDED)
UL 38-99 MANUALLY ACTUATED SIGNALING BOXES (AS AMENDED)
UL 268-09 SMOKE DETECTORS FOR FIRE ALARM SYSTEMS
UL 268A-09 SMOKE DETECTORS FOR DUCT APPLICATION (AS AMENDED)
UL 464-03 AUDIBLE SIGNAL APPLIANCES (AS AMENDED)
UL 521-99 HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS (AS AMENDED)
UL 1424 CABLES FOR POWER-LIMITED FIRE-ALARM CIRCUITS (2005 EDITION)
UL 1971 SIGNALING DEVICES FOR THE HEARING IMPAIRED (2004 EDITION)
AMERICANS WITH DISABILITIES ACT

PROJECT INFORMATION



AREA MAP



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4	
TOTAL PAGES: 143	

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123309 INC: 1
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
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AGD
ARCHITECTURE | DESIGN

ANDREW GOODWIN DESIGNS
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REVISIONS

REV # | REV DATE | REV DESCRIPTION

SEAL

LICENSED ARCHITECT
ANTONIO PAVONE
C-39058
REN: 9/30/2025
STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
INCREMENT 1 AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

SHEET INDEX

PHASE DESCRIPTION
100% CD - DSA APPROVAL
INCREMENT 1

DATE: 9/24/2025

TECHNICIAN: RT / JL

PROJECT MANAGER: TP

JOB NUMBER: 791

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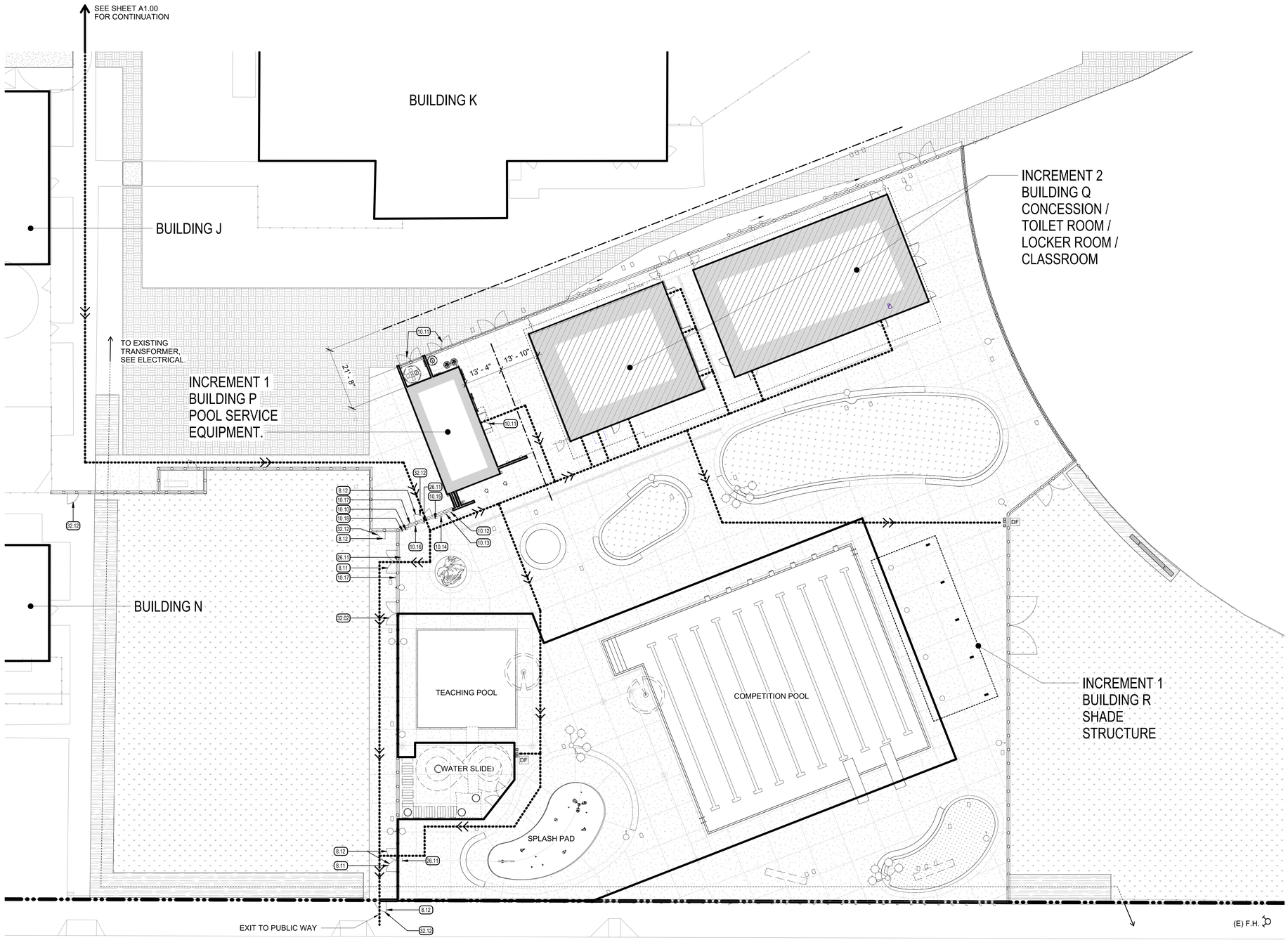
PLOT DATE: 9/19/2025 5:36:01 PM



1 SITE CODE ANALYSIS

1" = 15'-0"

NORTH

8.11	ACCESSIBLE CHAINLINK GATE, SEE CIVIL.
8.12	PROVIDE PANIC HARDWARE, SEE CIVIL.
10.10	POOL USER CAPACITY SIGNAGE. SEE AQUATICS.
10.11	CHEMICAL HAZARD SIGNAGE. SEE AQUATICS.
10.12	EMERGENCY TELEPHONE NUMBER. SEE AQUATICS.
10.13	ILLUSTRATED CPR DIAGRAM SIGNAGE. SEE AQUATICS.
10.14	NO LIFEGUARD WARNING SIGNAGE. SEE AQUATICS.
10.15	NO DIVING SIGNAGE. SEE AQUATICS.
10.16	KEEP CLOSED SIGNAGE. SEE AQUATICS.
10.17	DIARRHEA SIGNAGE. SEE AQUATICS.
10.18	FIRE DEPARTMENT SIGNAGE. SEE AQUATICS.
26.11	SELF-ILLUMINATING EXIT SIGN. SEE ELECTRICAL.
32.02	DOUBLE CHAIN LINK GATE, SEE CIVIL.
32.12	3'-0" ACCESSIBLE CHAIN LINK GATE. SEE CIVIL.

KEYNOTES (xx.xx)

OCCUPANT LOAD FACTORS (TABLE 1004.5)

POOL	50 GROSS
POOL DECK	15 GROSS
STORAGE / EQUIPMENT / I.T, ELECT. ROOMS	300 GROSS
LOCKER ROOM	50 GROSS
OFFICE	150 GROSS

COMPETITION POOL

6,300 SF / 50 = 126 OCCUPANTS

TEACHING POOL

1,250 SF / 50 = 25 OCCUPANTS

SPLASH PAD

850 SF / 50 = 17 OCCUPANTS

POOL DECK

7,884 SF / 15 = 526 OCCUPANTS

BUILDING 'P' POOL SERVICE EQUIPMENT

800 SF / 300 = 3 OCCUPANTS

BUILDING 'Q' (INCREMENT 2)

LOCKER ROOM

MENS	=	225 SF / 50 OLF = 5 OCCUPANTS
WOMENS	=	224 SF / 50 OLF = 5 OCCUPANTS
I.T CLOSET RM. Q104	=	55 SF / 300 OLF = 1 OCCUPANT
DRY STORAGE	=	64 SF / 300 OLF = 1 OCCUPANT
JANITOR	=	66 SF / 300 OLF = 1 OCCUPANT
CONCESSION	=	338 SF / 150 OLF = 2 OCCUPANTS
CLASSROOM	=	2,370 SF / 50 = 48 OCCUPANTS
I.T CLOSET RM. Q112	=	31 SF / 300 OLF = 1 OCCUPANT
ELECTRICAL	=	32 SF / 300 OLF = 1 OCCUPANT
EQUIPMENT STORAGE	=	229 SF / 300 OLF = 1 OCCUPANT
OFFICE	=	111 SF / 150 = 1 OCCUPANTS

BUILDING 'R' SHADE STRUCTURE

OVERHANG = 1,448 SF/ 7 = 207 OCCUPANTS

TOTAL OCCUPANTS = 971 OCCUPANTS

SITE ANALYSIS

- PROPERTY LINE
- ASSUMED PROPERTY LINE
- ACCESSIBLE ROUTE (2022 C.B.C. SECTION 11B - 206)
- DF ACCESSIBLE DRINKING FOUNTAIN THIS DSA APPLICATION NUMBER
- M ACCESSIBLE MENS TOILET ROOM THIS DSA APPLICATION NUMBER
- W ACCESSIBLE WOMENS TOILET ROOM THIS DSA APPLICATION NUMBER
- S ACCESSIBLE GENDER NEUTRAL STAFF TOILET ROOM THIS DSA APPLICATION NUMBER
- ML MENS LOCKER ROOM (DSA APPLICATION NUMBER INCREMENT 2)
- WL WOMENS LOCKER ROOM (DSA APPLICATION NUMBER INCREMENT 2)

THE ACCESSIBLE ROUTE, AS DEFINED IN THE CALIFORNIA BUILDING CODE, IS A CONTINUOUS UNOBSTRUCTED PATH CONNECTING ACCESSIBLE ELEMENTS AND SPACES OF AN ACCESSIBLE SITE, BUILDING OR FACILITY THAT CAN BE NEGOTIATED BY A PERSON WITH A DISABILITY USING A WHEELCHAIR, AND THAT IS ALSO SAFE FOR AND USABLE BY PERSONS WITH OTHER DISABILITIES. INTERIOR ACCESSIBLE ROUTES MAY INCLUDE CORRIDORS, HALLWAYS, FLOORS, RAMPS, ELEVATORS, AND LIFTS. EXTERIOR ACCESSIBLE ROUTES MAY INCLUDE PARKING ACCESS AISLES, CURB RAMPS, CROSSWALKS AT VEHICULAR WAYS, WALKS, RAMPS AND LIFTS. INTERIOR AND EXTERIOR ACCESSIBLE ROUTES SHALL COMPLY WITH CBC CHAPTER 11B: ACCESSIBLE ROUTES. COMMON PATH OF TRAVEL ITEMS INCLUDE: DRINKING FOUNTAINS SERVING THE AREA OF ALTERATION, PUBLIC TELEPHONES SERVING THE AREA OF ALTERATION, EXTERIOR OR INTERIOR SIGNS ALONG THE PATH OF TRAVEL, ACCESSIBLE ROUTE COMPONENTS, WALKING SURFACES DIMENSIONS, RUNNING SLOPE OF WALKING SURFACE ARE NOT TO EXCEED 1:20 SLOPE, RUNNING SLOPE OF RAMPS ARE NOT TO EXCEED 1:12 SLOPE, CROSS SLOPE OF WALKS, RAMPS AND LANDINGS ARE NOT TO EXCEED 1:48, VERTICAL CHANGES IN LEVEL ARE NOT TO EXCEED 1/4", OPENING IN DRAINS AND GRATINGS ARE NOT TO EXCEED 1/2" IN PREDOMINANT DIRECTION OF TRAVEL, PROTRUDING OBJECTS AND OVERHEAD OBSTRUCTIONS ARE TO HAVE 80" MINIMUM HEAD CLEARANCE AND ARE NOT TO PROJECT MORE THAN 4" FROM WALLS WITHIN A 27" AND 80" RANGE, SITE ARRIVAL POINTS, PARKING LOTS, BUS STOPS, PASSENGER DROP-OFF AND LOADING ZONES.

DESIGN PROFESSIONAL IN CHARGE STATEMENT:

- THE P.O.T. IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS MEETS THE REQUIREMENTS OF THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE (CBC) ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS.
- AS PART OF THE DESIGN OF THIS PROJECT, THE P.O.T. WAS EXAMINED AND ANY ELEMENTS, COMPONENTS, OR PORTIONS OF THE P.O.T. THAT WERE DETERMINED TO BE NONCOMPLIANT WITH THE CBC HAVE BEEN IDENTIFIED AND THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS, AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS.
- ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T. THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE INDICATED IN THESE CONSTRUCTION DOCUMENTS.
- DURING CONSTRUCTION, IF P.O.T. ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CBC COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY ITEMS SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.
- ITS ADVISABLE TO AVOID DESIGN REQUIREMENTS THAT ARE AT OR NEAR DIMENSIONAL THRESHOLDS. CONSTRUCTION TOLERANCES MAY BE USED WHEN EVALUATING THE COMPLIANCE OF EXISTING PATH OF TRAVEL ELEMENTS PER DSA IR 11B-8 'USE OF PREDETERMINED CONSTRUCTION TOLERANCE GUIDELINES FOR ACCESSIBILITY

LEGEND

A. SEE SHEET G0.02-1 FOR BUILDING 'S' CODE ANALYSIS

GENERAL NOTES

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123309 INC: 1
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 9/30/2025

AGD
ARCHITECTURE | DESIGN
ANDREW GOODWIN DESIGNS
1238 MONTEREY STREET
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REVISIONS

REV #	REV DATE	REV DESCRIPTION

SEAL

LICENSED ARCHITECT
ANTONIO PAVONE
C-39258
REN: 9/30/2025
STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
INCREMENT 1 AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

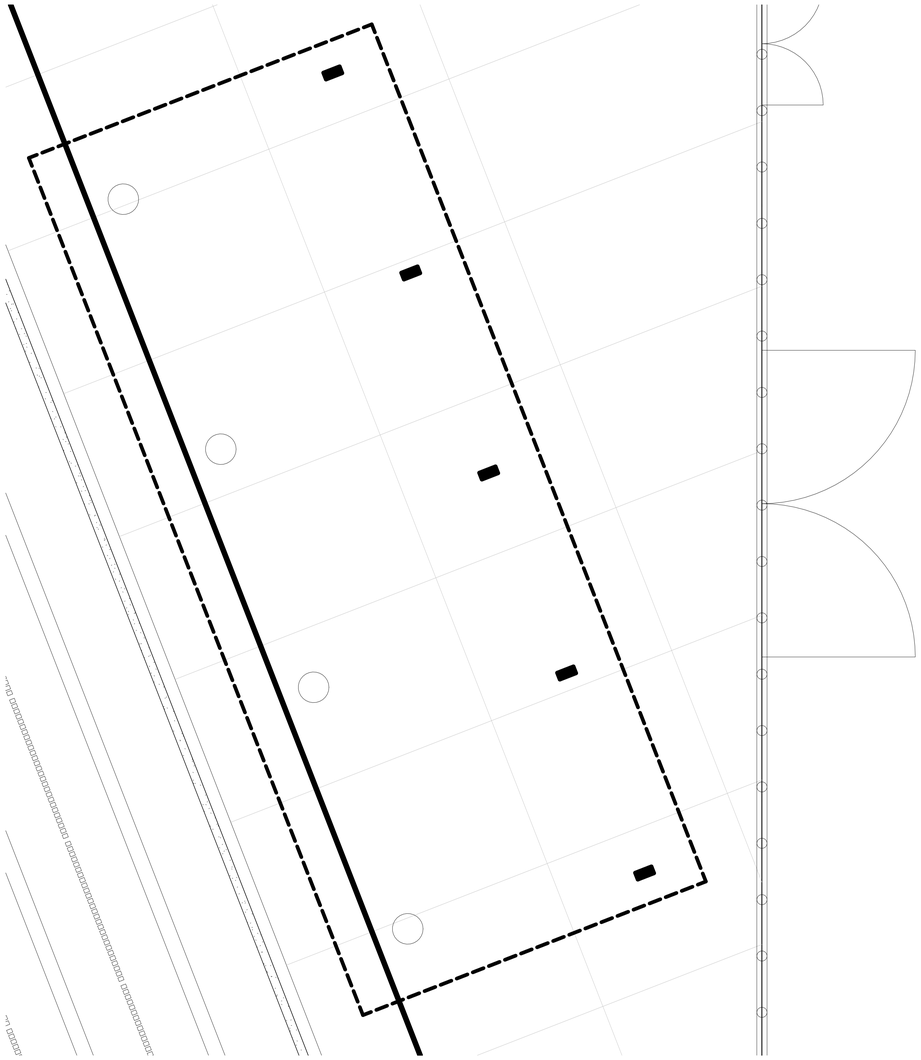
SITE CODE ANALYSIS

PHASE DESCRIPTION
100% CD - DSA APPROVAL
INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: RT / JL
PROJECT MANAGER: TP
JOB NUMBER: 791

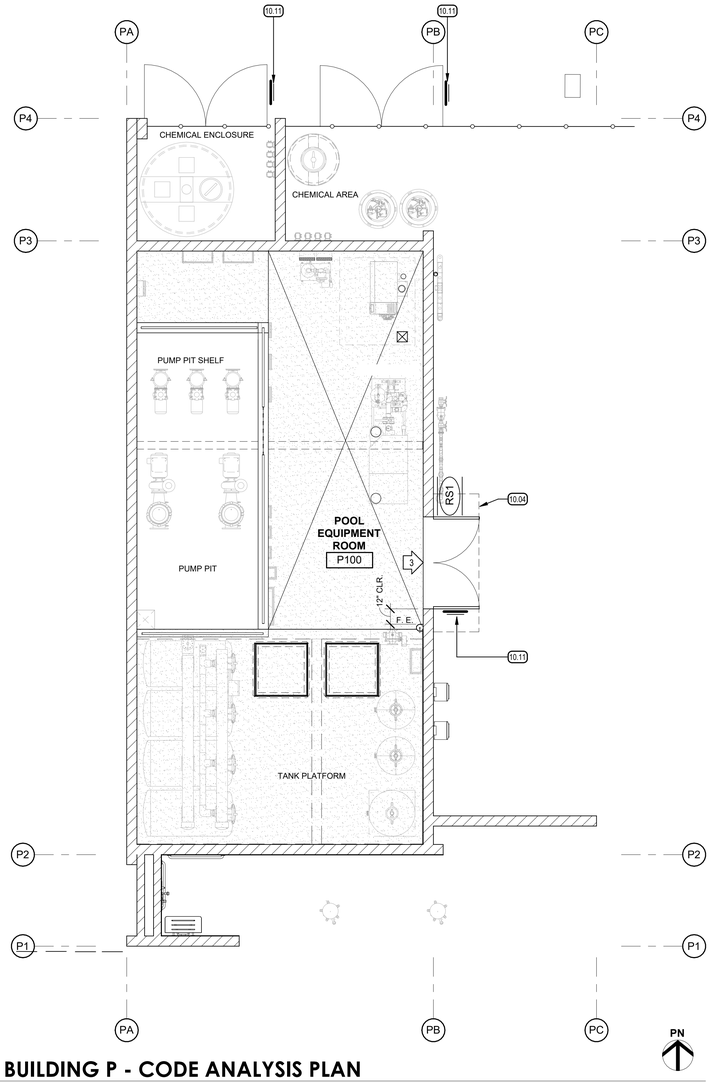
SHEET NUMBER
G0.02-1

PLOT DATE: 9/19/2025 5:36:04 PM



2 BUILDING 'R' CODE ANALYSIS

1/4" = 1'-0"



1 BUILDING P - CODE ANALYSIS PLAN

1/4" = 1'-0"

10.04 CANOPY ABOVE, SEE ROOF PLAN
10.11 CHEMICAL HAZARD SIGNAGE. SEE AQUATICS.

KEYNOTES (xx.xx)

BUILDING P ANALYSIS

BUILDING P

A. OCCUPANCY CLASSIFICATION(S) (CBC SECTION 302): **S-1 (MODERATE-HAZARD STORAGE)**
   1. 'S': STORAGE
B. CONSTRUCTION TYPE (CBC 602): TYPE V-B, [NON-SPRINKLERED]

C. HEIGHT IN FEET:
   1. ALLOWABLE (CBC TABLE 504.3): **40** FEET (NON-SPRINKLERED FOR S-1 OCCUPANCIES)
   2. ACTUAL BUILDING HEIGHT (MAX.): **16** FEET
      40' - 0" > (16' - 0") OKAY

A. HEIGHT IN STORIES:
   1. ALLOWABLE (CBC TABLE 504.4): 1 STORY (NON-SPRINKLERED FOR S-1 OCCUPANCIES)
   2. ACTUAL: 1 STORY = OKAY

B. AREA:

   1. ALLOWABLE AREA (CBC 506)
      a. PER TABLE 506.2, ALLOWABLE AREA = 9,000 SF

   1. ACTUAL AREA:

BUILDING P ENCLOSED:	800 SF
OVERHANGS:	27 SF
TOTAL:	827 SF

827<9,000 OK

OCCUPANT LOAD FACTORS (BUILDING 'P')

STORAGE: 300 SF/OCC GROSS

800 SF / 300 SF/ OCC GROSS = 3 OCCUPANTS

EGRESS

A. COMMON PATH OF EGRESS TRAVEL (CBC TABLE 1006.2.1): 100' -0" MAX. FOR 'S-1' OCCUPANCY
B. EXIT ACCESS TRAVEL DISTANCE (CBC SECTION 1017 & TABLE 1017.2): 200' - 0" MAX. FOR 'S-1' OCCUPANCY WITHOUT SPRINKLER SYSTEM.
C. NUMBER OF EXITS AND EXIT ACCESS DOORWAYS, CBC SECTION 1006 & TABLES 1006.2.1, 1006.3.2, AND 1006.3.3(2):
   1. MINIMUM 2 EXITS/ACCESS TO EXITS REQUIRED FOR OCCUPANT LOADS OF 1 TO 500; 1 EXIT ALLOWED FOR;
      a. 'S-1' OCCUPANCIES WITH A MAXIMUM OCCUPANT LOAD OF 29 AND A MAXIMUM COMMON PATH OF EGRESS TRAVEL DISTANCE OF 75'.

BUILDING P:

800 SF/300 SF PER OCC
= 3 OCCUPANTS

1 EXITS REQUIRED

1 EXIT PROVIDED

TOTAL EGRESS WIDTH REQUIRED = 0.2 X 3 OCCUPANTS = .6"

EGRESS WIDTH PROVIDED 72"

BUILDING 'R' ANALYSIS

A. OCCUPANCY CLASSIFICATION(S) (CBC SECTION 302): **A-3**
   1. 'A-3'
B. CONSTRUCTION TYPE (CBC 602): TYPE V-B, [NON-SPRINKLERED

C. HEIGHT IN FEET:
   1. ALLOWABLE (CBC TABLE 504.3): **40** FEET (NON-SPRINKLERED FOR 'A' OCCUPANCY)
   2. ACTUAL BUILDING HEIGHT (MAX.): **18** FEET
      40' - 0" > (18' - 0") OKAY

A. HEIGHT IN STORIES:
   1. ALLOWABLE (CBC TABLE 504.4): 1 STORY (NON-SPRINKLERED FOR 'A' OCCUPANCY)
   2. ACTUAL: 1 STORY OKAY

B. AREA:

   1. ALLOWABLE AREA (CBC 506)
      a. PER TABLE 506.2, ALLOWABLE AREA = 6000 SF

   2. ACTUAL AREA:

OVERHANGS:	1,448 SF
TOTAL:	1,448 SF

1,448 < 6,000 OK

OCCUPANT LOAD FACTORS (BUILDING 'R')

A-3 : 7 SF/OCC GROSS

1,448 SF/ 7 SF PER OCC. = 207 OCCUPANTS

BUILDING CODE ANALYSIS

XX — NUMBER OF OCCUPANTS EXITING

Room name / 101 — ROOM NAME & NUMBER

XXX — ROOM IDENTIFICATION SIGNAGE. SEE 6 / A8.00-1

F.E. — BRACKET MOUNTED 2A:10B:C FIRE EXTINGUISHER, SEE 9 / A8.00-1

LEGEND

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DIV. OF THE STATE ARCHITECT
APP: 02-123309 INC: 1
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 9/30/2025

AGD ARCHITECTURE | DESIGN

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REVISIONS

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SEAL

LICENSED ARCHITECT
ANTONIO PAVONE
C-39038
REN: 9/30/2025
STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
INCREMENT 1 AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

CODE ANALYSIS AND EGRESS PLAN

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: RT / JL
PROJECT MANAGER: TP
JOB NUMBER: 791

SHEET NUMBER
G0.03-1

PLOT DATE: 9/19/2025 5:36:05 PM

GENERAL TOPOGRAPHIC SURVEY LEGEND:

(NOT ALL SYMBOLS SHOWN APPEAR ON THE PLANS)

AB	ABUTMENT
AC	ASPHALTIC CONCRETE
ACE	ASPHALTIC CONCRETE EDGE
AD	ASPHALTIC CONCRETE DIKE
AWT	ALL-WEATHER TRACK
BD	BRIDGE DECK
BFC	BOTTOM FACE OF CURB
BGST	STEPS
BGTR	TOP OF ROOF
BGV	BUILDING VENTS
BOD	BOTTOM OF DITCH
BR	BARRICADE
BRK	BRICK
BW	BARRIER WALL
CB	CATCH BASIN
CDA	CONCRETE DRIVE APPROACH
CE	CONCRETE EDGE
CMP	CORRUGATED METAL PIPE
CON	CONCRETE
COTH	COMMUNICATION TRENCH
CR	CROWN OF ROAD
CRQ	QUARTER CROWN
CS	CONCRETE SLAB
CULV	CULVERT
CW	CONCRETE WALL
DD	DOWN DRAIN
DFL	DITCH FLOWLINE
DWY	DRIVEWAY
ECTH	ELECTRICAL TRENCH
EDR	EDGE OF DIRT ROAD
EGR	EDGE OF GRAVEL ROAD
EOD	EDGE OF OILED DIRT
EP	EDGE OF PAVEMENT
ES	EDGE OF SHOULDER
ET	EDGE OF TRAVELED WAY
FF	FINISH FLOOR
FOTH	FIBER OPTIC TRENCH
GB	GRADE BREAK
GFL	GUTTER FLOWLINE
GR	GRATE
GRA	GRAVEL SPOT SHOT
GRAE	EDGE OF GRAVEL
GSTH	GAS TRENCH
HDR	WOOD HEADER
HW	HEAD WALL
KR	K-RAIL
LIP	LIP OF GUTTER
LSDE	DECOMPOSED GRANITE EDGE
LSDG	DECOMPOSED GRANITE
LSGC	GROUND COVER
LSGF	GOLF COURSE FAIRWAY
LSGG	GOLF COURSE GREEN
LSGT	GOLF COURSE TEE
LSSA	SAND
LSSP	SLOPE PROTECTION
LSST	GOLF COURSE SAND TRAP
NPTH	NON-POTABLE TRENCH
PA	PATIO
PGTH	PROPANE GAS TRENCH
POS	POINT ON SLOPE
RCP	REINFORCED CONCRETE
RIEL	RIPARIAN EDGE OF LAKE
RIEP	RIPARIAN EDGE OF POND
RIES	RIPARIAN EDGE OF STREAM
RIEW	RIPARIAN EDGE OF WETLAND
RIFL	RIPARIAN FLOWLINE
RIMC	RIPARIAN MISC.
RIP	RIP-RAP SLOPE PROTECTION
RK	ROCK
RW	RETAINING WALL
SB	SPEED BUMP
SDCD	STORM DRAIN CROSS DRAIN
SDFL	STORM DRAIN FLOWLINE
SDGR	STORM DRAIN GRATE
SDMG	STORM DRAIN MANHOLE W/ GRATE
SSFL	SEWER FLOWLINE
SDTH	STORM DRAIN TRENCH
SSGT	STORM DRAIN GREASE TRAP
SSST	SEWER TANK (SEPTIC)
SSTH	SEWER TRENCH
SWK	SIDEWALK
SWL	SWALE
T	TURF
TBC	TOP BACK OF CURB
TBW	TOP BACK OF WALK
TF	TOP OF FOOTING
TFC	TOP FACE OF CURB
TFW	TOP FACE OF WALK
TLTH	TELEPHONE TRENCH
TOB	TOP OF BANK
TOE	TOE OF SLOPE
TOP	TOP OF SLOPE
TROD	TRUNCATED DOMES
TVTH	TV TRENCH
TW	TOP OF WALL
UTH	UNIDENTIFIED TRENCH/SCAR LINE
VGFL	VALLEY GUTTER FLOWLINE
VGR	VALLEY GUTTER
WALBA	BARRIER WALL
WALBW	BLOCK WALL
WALCW	CONCRETE WALL
WALHW	HEAD WALL
WALRW	RETAINING WALL
WALWW	WING WALL
WCR	WHEELCHAIR RAMP
WLPD	WELL PAD
WTTH	WATER TRENCH
WW	WING WALL
(335.21)	EXISTING ELEVATION
AL	ACCENT LIGHT
AV	ALFALFA VALVE
	BACKFLOW ASSEMBLY
	BASKETBALL GOAL
BOV	BLOW-OFF VALVE
	BM=BENCHMARK; OR SBM=SITE BENCHMARK
BO	BOLLARD
CO	CLEANOUT
COPB	COMMUNICATION PULLBOX
CVA	COMMUNICATION VAULT
312.55	SURVEY CONTROL MONUMENT
DF	DRINKING FOUNTAIN
DS	DOORSTOP
DW	DRYWELL
EG	ELECTRICAL GROUND
ELC	ELECTRICAL CONDUIT
	ELECTRICAL METER
EPB	ELECTRICAL PULLBOX
	ELECTRICAL VAULT LID
ETS	GAS ELECTRONIC TESTING STATION
FDC	FIRE DEPARTMENT CONNECTION
	FIRE HYDRANT
FP	FENCE POST
FLP	FLAG POLE
GAS	GAS LINE; DIAMETER AS SHOWN
GR	GAS REGULATOR
GAV	IRRIGATION GATE VALVE
	GAS METER
GOP	GOAL POST
GP	GUY POLE
GS	GATE STOP
GSR	GAS RISER
GV	GAS VALVE
GRD	GROUNDING ROD
GUY	GUY WIRE
HB	HOSE BIBB
HR	HANDRAIL
ICB	IRRIGATION CONTROLLER
	IRRIGATION DISTRICT MANHOLE
IVA	IRRIGATION REMOTE CONTROL VALVE
ISB	IRRIGATION SPLICE BOX
IHB	IN-GROUND HOSE BIBB
IP	IRON PIPE
JP	JOINT UTILITY POLE
LP	LIGHT POLE
MB	MAIL BOX
	MANHOLE
MV	MANUAL IRRIGATION VALVE
PB	PULLBOX
PIV	POST INDICATOR VALVE
	UTILITY STUB
	PARKING METER
4"POST	POST; DIAMETER AS SHOWN
PP	POWER POLE
6" PVC	PVC PIPE; DIAMETER AS SHOWN
QC	QUICK COUPLER VALVE
RD	ROOF DRAIN
RDU	ROOF DRAIN UNDERGROUND
RS	ROOF SUPPORT
	STADIUM LIGHT POLE
	STORM DRAIN MANHOLE
	SIGN
PPB	SIGNAL LIGHT PUSH BUTTON
	STREET LIGHT
4" SLE	PIPE SLEEVE; DIAMETER AS SHOWN
	SLOPE
FLPB	STREET LIGHT PULLBOX
4"SLV	PIPE SLEEVE; DIAMETER AS SHOWN
	SEWER MANHOLE
SP	SERVICE POLE
SPB	SIGNAL PULLBOX
	SPRINKLER
4" SPO	STEEL POST; DIAMETER AS SHOWN
12"SS	SAND SEPARATOR; SIZE AS NOTED
24"STP	STAND PIPE; DIAMETER AS NOTED
12"STUMP	TREE STUMP; DIAMETER AS SHOWN
MW	SURVEY MONUMENT WELL
4"TEL	TELEPHONE; DIAMETER AS SHOWN
	TELEPHONE MANHOLE
TN	TENNIS NET POLE
TP	TELEPHONE POLE
TPB	TELEPHONE PULLBOX
TVPB	TELEVISION PULLBOX
	TREE; SPREAD SHOWN GRAPHICALLY AND TRUNK DIAMETER AS SHOWN
	PALM TREE; SPREAD SHOWN GRAPHICALLY
TSB	TELEPHONE SPLICE BOX
	TRAFFIC SIGNAL POLE
TSPB	TRAFFIC SIGNAL PULLBOX
UP	UTILITY POLE
UR	UTILITY RISER
VB	VACUUM BREAKER
VN	VOLLEYBALL NET POST
2"VP	VENT PIPE; DIAMETER AS SHOWN
WELL	WELL
	WATER METER
WP	WELL PUMP
6"WPO	CIRCULAR WOOD POST; DIAMETER AS SHOWN
4"X4"WPO	SQUARE WOOD POST; SIZE AS SHOWN
4"W	WATER LINE; DIAMETER AS SHOWN
WV	WATER VALVE
	ASPHALT PAVEMENT
	CONCRETE BLOCK WALL
	BUILDING
	CONCRETE
	DETECTABLE WARNINGS
	DG OR GRAVEL
	CHAIN LINK FENCE
	CHAIN LINK ROLL GATE
	EDGE OF ASPHALT PAVEMENT
	WOOD FENCE
	DIRECTION OF FLOW
E	UNDERGROUND ELECTRIC
8" G	GAS LINE; SIZE AS NOTED
OT	OVERHEAD TELEPHONE
18" SD	STORM DRAIN LINE; SIZE AS NOTED
12" S	SEWER LINE; SIZE AS NOTED
T	UNDERGROUND TELEPHONE
6" W	WATER LINE; SIZE AS NOTED
12" AG	AGRICULTURAL IRRIGATION LINE; SIZE AS NOTED
1" A	AIR LINE; SIZE AS NOTED
C	COMMUNICATION LINE
350	MAJOR GRADE CONTOUR LINE
345	MINOR GRADE CONTOUR LINE
6" CW	CHILLED WATER LINE; SIZE AS NOTED
6" CWR	CHILLED WATER RETURN LINE; SIZE AS NOTED
6" CWS	CHILLED WATER SUPPLY LINE; SIZE AS NOTED
	LIMIT OF DIRT
	LIMIT OF TURF
1" DL	DRAIN LINE; SIZE AS NOTED
EMS	EMERGENCY MANAGEMENT SYSTEM
FA	FIRE ALARM LINE
8" F	FIRE LINE; SIZE AS NOTED
FO	FIBER OPTIC LINE
	DRAIN TUBE
2" HW	HOT WATER LINE; SIZE AS NOTED
2" HWR	HOT WATER RETURN LINE; SIZE AS NOTED
2" HWS	HOT WATER SUPPLY LINE; SIZE AS NOTED
HYD	HYDRAULIC LINE
18" ID	IRRIGATION DISTRICT; SIZE AS NOTED
	IRON FENCE
3" IRR	IRRIGATION MAIN LINE; SIZE AS NOTED
1" L	IRRIGATION LATERAL LINE; SIZE AS NOTED
ITS	INTELLIGENT TRAFFIC SYSTEM
JT	JOINTLY TRENCHED UTILITIES
OC	OVERHEAD COMMUNICATIONS LINE
OE	OVERHEAD ELECTRIC LINE
OEC	OVERHEAD ELECTRIC AND COMMUNICATION LINE
OET	OVERHEAD ELECTRIC AND TELEPHONE LINE
OETV	OVERHEAD ELECTRIC AND TELEVISION LINE
OETVT	OVERHEAD ELECTRIC, TELEVISION AND TELEPHONE LINE
OTS	OVERHEAD TRAFFIC SIGNAL LINE
OTV	OVERHEAD TELEVISION LINE
OU	OVERHEAD UTILITY LINE
6" P	PETROLEUM LINE; SIZE AS NOTED
8" RW	RECYCLED WATER IRRIGATION LINE; SIZE AS NOTED
8" S&SD	SEWER AND STORM DRAIN LINE; SIZE AS NOTED
6" SFM	SEWER FORCE MAIN; SIZE AS NOTED
2" ST	STEAM LINE; SIZE AS NOTED
TFO	TRAFFIC FIBER OPTIC LINE
TS	TRAFFIC SIGNAL LINE
TV	TELEVISION LINE
UNK	UNKNOWN UTILITY LINE
	WIRE FENCE
	PROPERTY LINE
	CITY LIMIT
	EASEMENT 1
	EASEMENT 2
	RIGHT-OF-WAY LINE
	SETBACK LINE

SURVEY NOTES:

1. *THIS TOPOGRAPHIC SURVEY LOCATES SPECIFIC PHYSICAL FEATURES OF THE SITE AND THEIR ELEVATION AS DETERMINED NECESSARY BY THE PROJECT ENGINEER. IT IS NOT A COMPLETE TOPOGRAPHIC SURVEY OF THE SITE. THE INFORMATION SHOWN REFLECTS THE DATA OBTAINED BY FIELD SURVEY CONDUCTED ON 06/20/2024.*
2. *UTILITY INFORMATION SHOWN HEREON IS BASED ON RECORD INFORMATION SUPPLIED TO THE ENGINEER BY UTILITY COMPANIES, PUBLIC AGENCIES AND THE PROPERTY OWNER, TOGETHER WITH OBSERVATION OF VISIBLE EVIDENCE BY A FIELD SURVEY. THE ENGINEER CAN MAKE NO GUARANTEE AS TO THE ACCURACY OR COMPLETENESS OF THE UNDERGROUND UTILITY FACILITIES SHOWN. PRIOR TO ANY SITE EXCAVATIONS, THE CONTRACTOR SHALL CONTACT THE OWNER AND UNDERGROUND SERVICE ALERT (USA) AND REQUEST THAT THEY IDENTIFY THE LOCATION OF ALL UNDERGROUND UTILITIES AT THE SITE.*

SITE BENCHMARK:

CHISELED "X" ON TOP OF CURB APPROXIMATELY 98 FEET EAST OF THE EASTERLY CORNER OF THE WOOD SHOP BUILDING JUST NORTH OF THE DRIVE APPROACH

ELEV.= 156.48 NAVD88 DATUM

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123309 INC: 1
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 9/30/2025

AGD ARCHITECTURE | DESIGN

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REVISIONS

REV #	REV DATE	REV DESCRIPTION

SEAL

REGISTERED PROFESSIONAL ENGINEER LANE R. BALCH No. 47190 CIVIL STATE OF CALIFORNIA

8/6/2025
Date Signed

PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

TOPOGRAPHIC SURVEY LEGEND AND NOTES

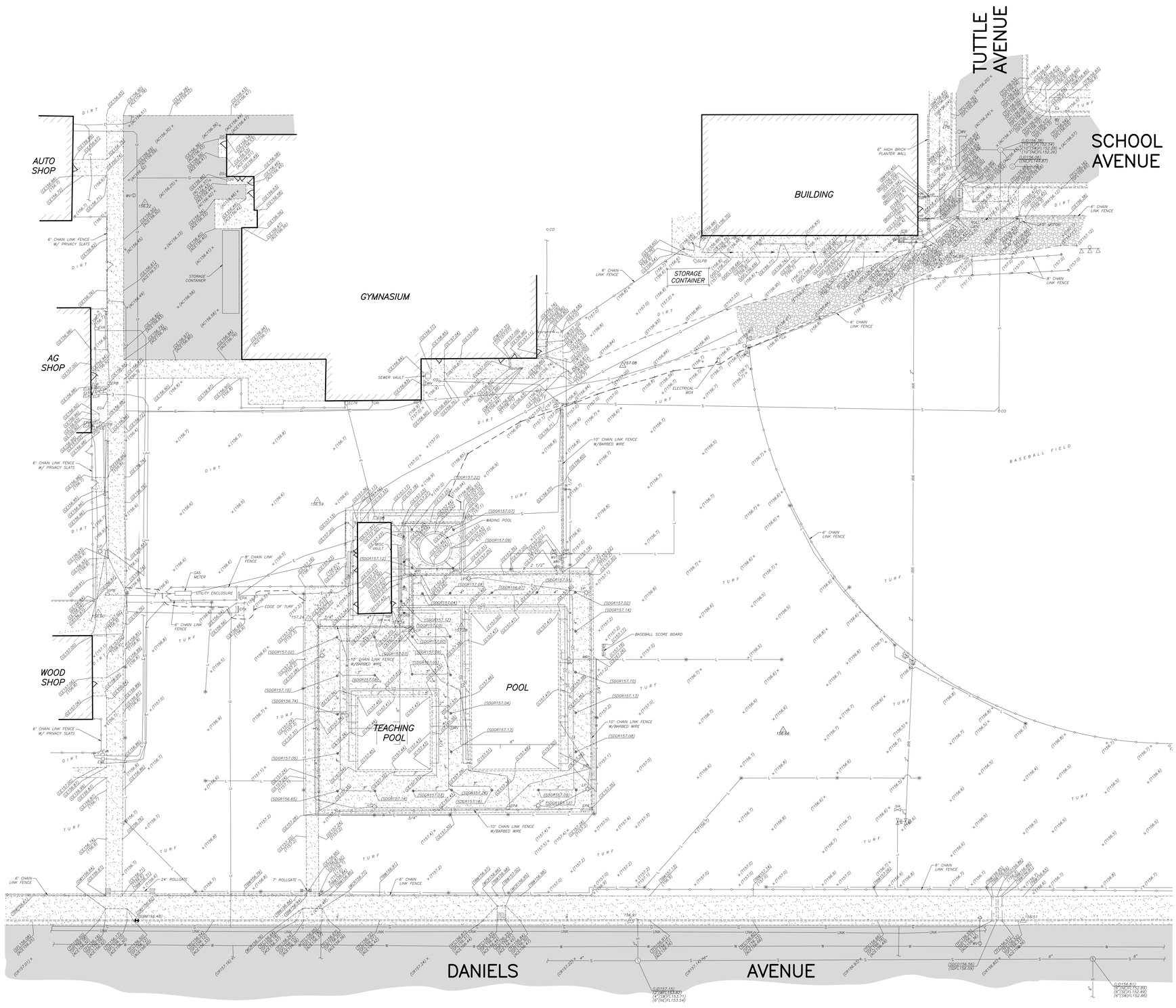
PHASE DESCRIPTION
100% CD - DSA SUBMITTAL INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: SD
PROJECT MANAGER: LB
JOB NUMBER: 791

SHEET NUMBER
C1.00-1

Blair, Church & Flynn
CONSULTING ENGINEERS
451 Clovis Avenue, Suite 200
Clovis, California 93612
Tel (559) 326-1400
Fax (559) 326-1500

Drawing: P:\24\24-037\Site\Production\Drawings\24037_TOG1.dwg - Topographic Survey Legend and Notes - REF.ctb
Plot By: JLaw - Sep 24, 2025 - 1:28pm



SURVEY NOTES:

1. *THIS TOPOGRAPHIC SURVEY LOCATES SPECIFIC PHYSICAL FEATURES OF THE SITE AND THEIR ELEVATION AS DETERMINED NECESSARY BY THE PROJECT ENGINEER. IT IS NOT A COMPLETE TOPOGRAPHIC SURVEY OF THE SITE. THE INFORMATION SHOWN REFLECTS THE DATA OBTAINED BY FIELD SURVEY CONDUCTED ON 06/20/2024.*
2. *UTILITY INFORMATION SHOWN HEREON IS BASED ON RECORD INFORMATION SUPPLIED TO THE ENGINEER BY UTILITY COMPANIES, PUBLIC AGENCIES AND THE PROPERTY OWNER, TOGETHER WITH OBSERVATION OF VISIBLE EVIDENCE BY A FIELD SURVEY. THE ENGINEER CAN MAKE NO GUARANTEE AS TO THE ACCURACY OR COMPLETENESS OF THE UNDERGROUND UTILITY FACILITIES SHOWN. PRIOR TO ANY SITE EXCAVATIONS, THE CONTRACTOR SHALL CONTACT THE OWNER AND UNDERGROUND SERVICE ALERT (USA) AND REQUEST THAT THEY IDENTIFY THE LOCATION OF ALL UNDERGROUND UTILITIES AT THE SITE.*

SITE BENCHMARK:

CHISELED "X" ON TOP OF CURB APPROXIMATELY 98 FEET EAST OF THE EASTERLY CORNER OF THE WOOD SHOP BUILDING JUST NORTH OF THE DRIVE APPROACH

ELEV.= 156.48 NAVD88 DATUM

SCALE: N 1"=20'

0 5 20 40
SCALE IN FEET

Blair, Church & Flynn
CONSULTING ENGINEERS
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Clovis, California 93612
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SS ☑ FLS ☑ ACS ☑
DATE: 9/30/2025

AGD ARCHITECTURE | DESIGN
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REVISIONS

REV #	REV DATE	REV DESCRIPTION

SEAL

REGISTERED PROFESSIONAL ENGINEER
LANE R. BARTHEL
No. 61753
CIVIL
STATE OF CALIFORNIA
8/6/2025
Date Signed:

PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

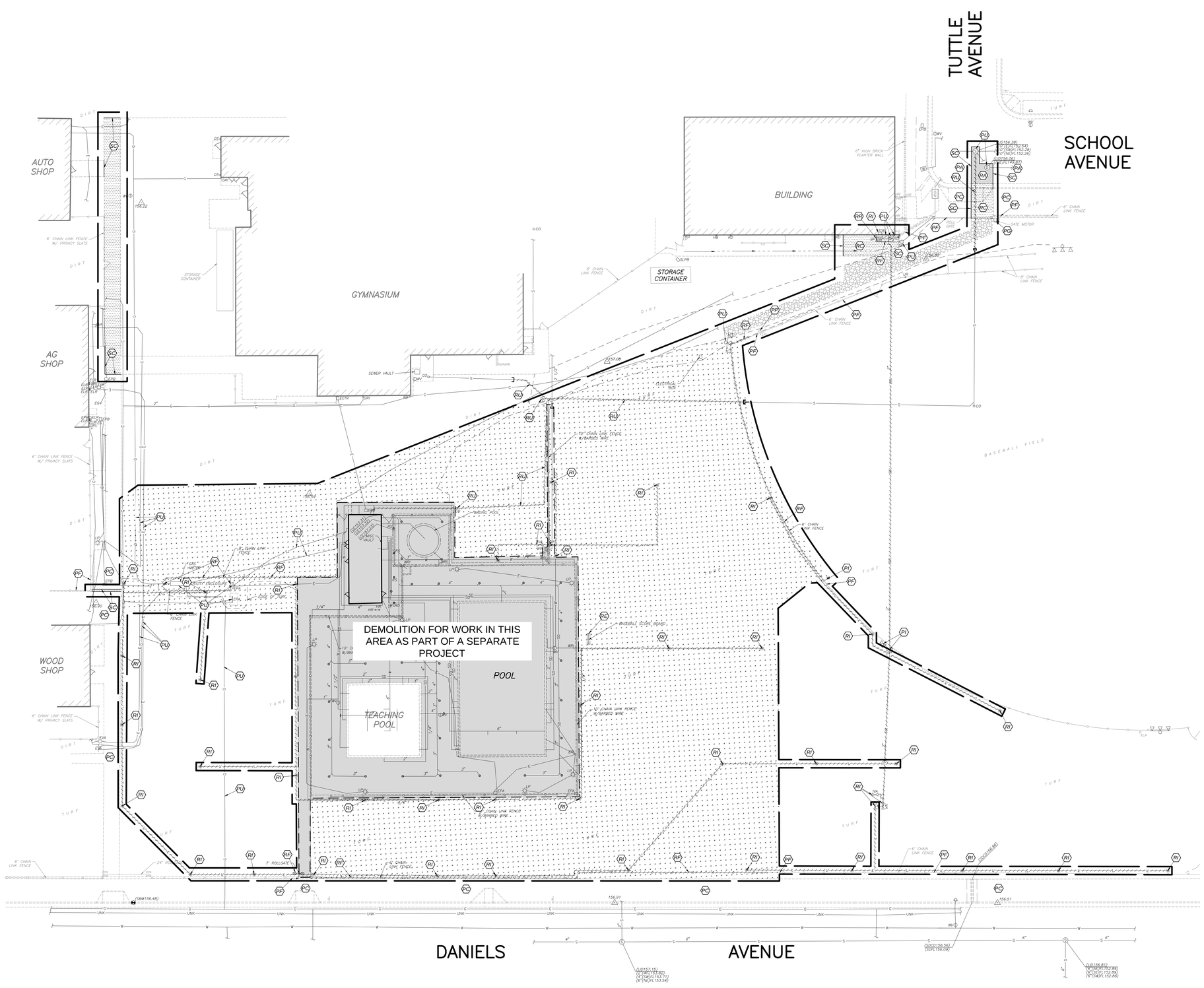
TOPOGRAPHIC SURVEY

PHASE DESCRIPTION
100% CD - DSA SUBMITTAL
INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: SD
PROJECT MANAGER: LB
JOB NUMBER: 791

SHEET NUMBER
C1.01-1

Drawing: P:\ZHZ24-0371\Set Production\Drawings\ZHZ37 - TOPO.dwg, Topographic Survey - BCF.ctb
Plotted by: Luis Sep 24, 2025 - 1:26pm



DEMOLITION LEGEND:

- REMOVE EXISTING IMPROVEMENTS AS NECESSARY TO CONSTRUCT NEW IMPROVEMENTS SHOWN ON THESE PLANS UNLESS OTHERWISE NOTED ON THE PLAN. THE REMOVAL OF IMPROVEMENTS MUST BE COORDINATED WITH ALL PLAN SHEETS. CONTRACTOR MUST ALSO COORDINATE REMOVAL OF IMPROVEMENTS WITH UTILITY AGENCIES. PROTECT ALL IMPROVEMENTS NOT DESIGNATED FOR REMOVAL. SEE NOTE 1
- LIMITS OF VEGETATION REMOVAL. 4" MINIMUM DEPTH
- LIMITS OF CONCRETE IMPROVEMENT REMOVAL
- LIMITS OF ASPHALTIC CONCRETE IMPROVEMENT REMOVAL
- LIMITS OF GRAVEL REMOVAL
- (PA) PROTECT ASPHALT CONCRETE TO REMAIN
- (PC) PROTECT CONCRETE IMPROVEMENTS TO REMAIN
- (PF) PROTECT FENCE TO REMAIN
- (PG) PROTECT GATE MOTOR TO REMAIN
- (PI) PROTECT IRRIGATION UTILITY TO REMAIN
- (PP) PROTECT FLAGPOLE TO REMAIN
- (PU) PROTECT UTILITY TO REMAIN
- (RA) REMOVE AND LAWFULLY DISPOSE OF ASPHALT CONCRETE PAVEMENT IMPROVEMENTS
- (RC) REMOVE AND LAWFULLY DISPOSE OF CONCRETE IMPROVEMENTS
- (RE) REMOVE AND
- (RF) REMOVE AND LAWFULLY DISPOSE OF CHAIN LINK FENCE FABRIC, POSTS AND FOOTINGS
- (RI) REMOVE/REPLACE IRRIGATION COMPONENTS AND RETURN TO DISTRICT
- (RR) REMOVE AND RELOCATE IRRIGATION COMPONENT
- (RU) REMOVE AND LAWFULLY DISPOSE OF UTILITY, SEE NOTE 10
- (SC) SAWCUT
- E CAP END OF UTILITY LINE
- LIMIT OF CHAIN LINK FENCE REMOVAL
- LIMIT OF IRRIGATION LATERAL LINE REMOVAL/ABANDONMENT
- LIMIT OF IRRIGATION MAIN LINE REMOVAL/ABANDONMENT
- LIMIT OF SEWER LINE REMOVAL
- LIMIT OF WATER LINE REMOVAL

GENERAL DEMOLITION NOTES:

1. THE "LIMIT OF DEMOLITION" SHOWN IS APPROXIMATE AND IS GENERALLY CONSIDERED TO BE THE MINIMUM REMOVAL REQUIREMENTS. CONTRACTOR MUST COORDINATE AS NOTED IN THE LEGEND.
2. CONTRACTOR SHALL LEGALLY DISPOSE OF ALL DEMOLISHED MATERIALS OFF SITE.
3. CONTRACTOR SHALL PROTECT ALL EXISTING UTILITY IMPROVEMENTS NOT SPECIFICALLY DESIGNATED FOR REMOVAL.
4. THE ON-SITE UNDERGROUND UTILITIES SHOWN ON THIS SHEET ARE AT APPROXIMATE LOCATIONS. THE EXTENT, LOCATIONS AND SIZES ARE UNKNOWN. THE CONTRACTOR SHALL POTHOLE TO LOCATE AND VERIFY THE UNDERGROUND UTILITY LINES PRIOR TO REMOVAL.
5. CONTRACTOR TO PROTECT AND PRESERVE IN PLACE ANY FOUND SURVEY MONUMENTS. ANY MONUMENTS DISTURBED SHALL BE RESET BY A CALIFORNIA LICENSED SURVEYOR AND THE APPROPRIATE PAPERWORK FILED WITH THE CITY OR COUNTY, AT CONTRACTOR'S EXPENSE.
6. ALL HAZARDOUS MATERIALS ENCOUNTERED DURING SITE DEMOLITION SHALL BE REMEDIATED AND DISPOSED OF PER STATE AND EPA REQUIREMENTS.
7. CONTRACTOR SHALL CONTACT AND COORDINATE WITH ALL UTILITY AGENCIES PRIOR TO THE START OF ANY DEMOLITION OR CONSTRUCTION.
8. ANY EXISTING UTILITIES AND/OR IMPROVEMENTS WHICH ARE TO REMAIN, THAT BECOME DAMAGED DURING CONSTRUCTION SHALL BE COMPLETELY RESTORED TO THE SATISFACTION OF THE OWNER AND AGENCY HAVING AUTHORITY, AT THE CONTRACTOR'S SOLE EXPENSE.
9. REMOVE EXISTING IMPROVEMENTS AS NECESSARY TO CONSTRUCT NEW IMPROVEMENTS SHOWN ON THESE PLANS.
   a) FOR CONCRETE REMOVAL, REMOVE TO THE NEXT NEAREST TOOLED JOINT OR EXPANSION JOINT OF IMPROVEMENTS DESIGNATED TO REMAIN.
   b) FOR ASPHALTIC PAVEMENT REMOVAL, SAWCUT TO A STRAIGHT, CLEAN EDGE AT LOCATIONS INDICATED ON THE PLANS.
10. REFER TO MECHANICAL, ELECTRICAL, PLUMBING, POOL, IRRIGATION, AND ARCHITECTURAL PLANS FOR ADDITIONAL DEMOLITION AND COORDINATION.
11. COMPLIANCE WITH FIRE SAFETY DURING CONSTRUCTION WILL BE ENFORCED.
12. FOLLOWING COMPLETION OF DEMOLTION, THE CONTRACTOR SHALL RE-COMPACT AND ROUGH GRADE THE SITE SUCH THAT THERE ARE NO MOUNDS OF DIRT. ADDITIONALLY, THE SITE SHALL BE GRADED SUCH THAT POSITIVE DRAINAGE OCCURS AWAY FROM THE EXISTING DIVE POOL TO BE PROTECTED IN PLACE.

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Blair, Church & Flynn
CONSULTING ENGINEERS
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Clovis, California 93612
Tel: (559) 326-1400
Fax: (559) 326-1500

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APP: 02-123309 INC: 1
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 9/30/2025

AGD ARCHITECTURE | DESIGN

ANDREW GOODWIN DESIGNS
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REV #	REV DATE	REV DESCRIPTION

SEAL

REGISTERED PROFESSIONAL ENGINEER — ELAINE R. BLAIR — No. 51203 — CIVIL — STATE OF CALIFORNIA
8/6/2025
Date Signed:

PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

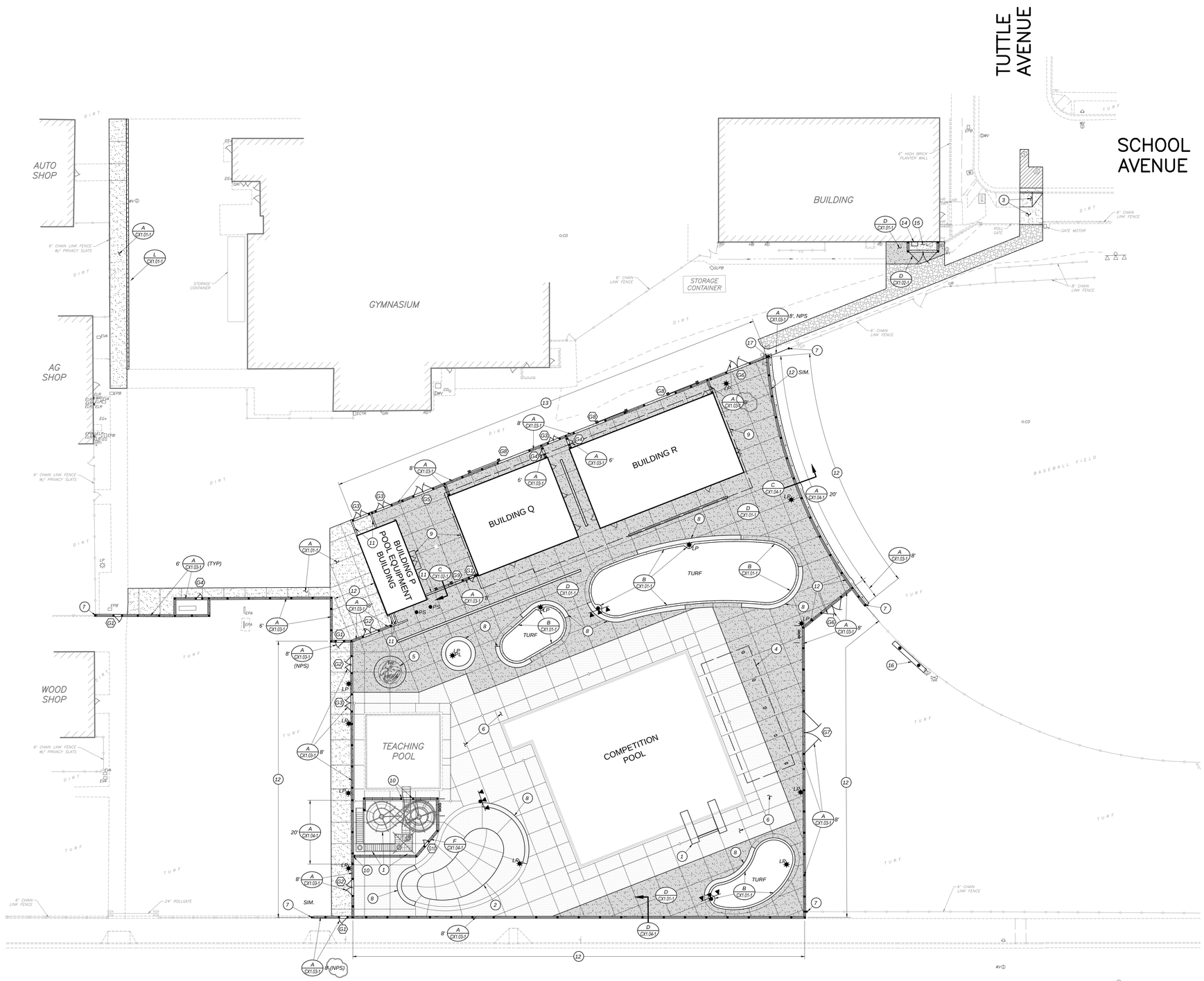
DEMOLITION PLAN

PHASE DESCRIPTION
100% CD - DSA SUBMITTAL INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: SD
PROJECT MANAGER: LB
JOB NUMBER: 791

SHEET NUMBER
C2.02-1

Drawing: P:\2024\2073\Set\Production\Drawings\24207_GEN1.dwg, C2.02-1 - BCF.ctb
Plotted by: Luis Sep 24, 2025 - 2:38pm



SITE LEGEND:

	LIMITS OF CONCRETE IMPROVEMENTS
	LIMITS OF CONCRETE IMPROVEMENTS BY OTHERS
	LIMITS OF HEAVY DUTY CONCRETE IMPROVEMENTS PER DETAIL [D/CX1.01-1]
	LIMITS OF HEAVY DUTY ASPHALTIC CONCRETE PAVEMENT IMPROVEMENTS PER LATEST COUNTY OF FRESNO STANDARDS AND SPECIFICATIONS
	LIMITS OF DECOMPOSED GRANITE IMPROVEMENTS PER DETAIL [K/CX1.01-1]
	LIMITS OF ASPHALT PLUG IMPROVEMENTS
NPS	*NO PRIVACY SCREEN*
PL	*PLANTER*
LP	*SITE LIGHTING, SEE ELECTRICAL PLANS*
	POOL LIGHTING, SEE ELECTRICAL PLANS
	DRINKING FOUNTAIN PER DETAIL [A/CX1.02-1]
PS	*DECK SHOWER, SEE ARCHITECTURAL AND PLUMBING PLANS*
1	*POOL EQUIPMENT, SEE ARCHITECTURAL AND AQUATICS PLANS*
2	*SPLASH PAD, SEE ARCHITECTURAL AND AQUATICS PLANS*
3	*CONCRETE SIDEWALK ,DRIVE APPROACH AND CURB AND GUTTER PER LATEST COUNTY OF FRESNO STANDARDS AND SPECIFICATIONS*
4	*SHADE STRUCTURE, SEE ARCHITECTURAL PLANS*
5	*DECORATIVE LOGO, SEE ARCHITECTURAL PLANS*
6	*POOL IMPROVEMENTS, SEE AQUATICS PLANS*
7	*CONNECT EXISTING CHAINLINK FENCE AND FABRIC TO NEW FENCE POST PER DETAIL [A/CX1.03-1]*
8	*CONCRETE SEAT WALL WITH ACCENT LIGHTING, SEE ARCHITECTURAL PLANS*
9	*BUILDING OVERHANG, SEE ARCHITECTURAL AND STRUCTURAL PLANS*
10	*DECORATIVE METAL FENCE WITH 4" MAX SEPARATION PER DETAIL [F/CX1.04-1]*
11	*CMU WALL, SEE STRUCTURAL PLANS*
12	*INSTALL 80% BLOCKAGE PRIVACY SCREEN PER SPECIFICATION 32 31 13 CHAIN LINK FENCING*
13	*INSTALL 90% BLOCKAGE PRIVACY SCREEN PER SPECIFICATION 32 31 13 CHAIN LINK FENCING*
14	*IRRIGATION BOOSTER PUMP EQUIPMENT, SEE IRRIGATION PLANS*
15	*2" MINIMUM NON-STRUCTURAL CONCRETE SLURRY PER SPECIFICATION 32 13 15 SITE CONCRETE IMPROVEMENTS*
16	*SCOREBOARD, SEE ARCHITECTURAL PLANS*
17	*4" MAX SEPARATION BETWEEN CHAIN LINK FENCE POSTS*

GENERAL SITE NOTES:

1. *ALL CONCRETE MOWSTRIPS, RAMPS AND SIDEWALKS SHALL HAVE WEAKENED PLANE JOINTS AT 10 FEET MAXIMUM ON CENTER AND EXPANSION JOINTS AT 30 FEET MAXIMUM ON CENTER PER DETAIL [A/CX1.01-1]; FOR SCORE LINE LAYOUT WITHIN THE AQUATICS AREA, REFER TO ARCHITECTURAL PLANS. SCORE LINES WITHIN THE AQUATICS AREA SHALL HAVE WEAKENED PLANE JOINTS AT 15 FEET MAXIMUM ON CENTER.*
2. *INSTALL DOWELED CONNECTION AT JOINT OF NEW CONCRETE TO EXISTING CONCRETE PER DETAIL [C/CX1.01-1]*
3. *NO CONCRETE MAY BE POURED UNTIL THE FORMS HAVE BEEN REVIEWED AND APPROVED BY THE PROJECT INSPECTOR.*
4. *ALL BURIED METALLIC OBJECTS SHALL HAVE A PROTECTIVE COATING OR BE WRAPPED WITH APPROVED PROTECTIVE WRAP.*
5. *ADJUST EXISTING SPRINKLER HEADS AND LATERAL LINES AS REQUIRED BY NEW IMPROVEMENTS, OR AS SHOWN ON THE IRRIGATION PLANS.*
6. *2 WORKING DAYS BEFORE COMMENCING EXCAVATION OPERATIONS WITHIN THE STREET RIGHT-OF-WAY AND/OR UTILITY EASEMENTS, ALL EXISTING UNDERGROUND FACILITIES SHALL HAVE BEEN LOCATED BY UNDERGROUND SERVICES ALERT (USA). CALL 1-800-642-2444*
7. *ANY SURVEY MONUMENTS WITHIN THE AREA OF CONSTRUCTION SHALL BE PRESERVED OR RESET BY A PERSON LICENSED TO PRACTICE LAND SURVEYING IN THE STATE OF CALIFORNIA. REPLACEMENT TO BE AT CONTRACTOR'S SOLE EXPENSE.*
8. *REPAIR ALL DAMAGED AND/OR OFF-GRADE CONCRETE STREET IMPROVEMENTS AS DETERMINED BY THE AGENCY HAVING JURISDICTION PRIOR TO OCCUPANCY*
9. *OBTAIN ALL REQUIRED PERMITS AND APPROVALS FROM AGENCY HAVING JURISDICTION FOR WORK WITHIN THE PUBLIC RIGHT OF WAY*

GATE SCHEDULE:

GATE ID	REFERENCE DETAIL	GATE FUNCTION	ACCESS
G1	*[A/CX1.03-1]*	*SINGLE LEAF CHAIN LINK PEDESTRIAN GATE*	*ADA/CBC ACCESSIBLE PANIC HARDWARE*
G2	*[A/CX1.03-1]*	*DOUBLE LEAF CHAIN LINK PEDESTRIAN GATE*	*ADA/CBC ACCESSIBLE PANIC HARDWARE*
G3	*[A/CX1.03-1]*	*DOUBLE LEAF CHAIN LINK MAINTENANCE GATE*	*LOCKABLE FORK LATCH*
G4	*[A/CX1.03-1]*	*SINGLE LEAF CHAIN LINK MAINTENANCE GATE*	*LOCKABLE FORK LATCH*
G5	*[A/CX1.03-1]*	*DOUBLE LEAF CHAIN LINK MAINTENANCE GATE*	*LOCKABLE FORK LATCH*
G6	*[A/CX1.03-1]*	*DOUBLE LEAF CHAIN LINK MAINTENANCE GATE*	*LOCKABLE FORK LATCH*
G7	*[A/CX1.03-1]*	*DOUBLE LEAF CHAIN LINK DRIVE GATE*	*LOCKABLE FORK LATCH*
G8	*[C/CX1.03-1]*	*CHAIN LINK MAINTENANCE ROLL GATE*	*LOCKABLE FORK LATCH*
G9	*[C/CX1.02-1]*	*CHAIN LINK MAINTENANCE ROLL GATE*	*LOCKABLE FORK LATCH*
G10	*[F/CX1.04-1]*	*SINGLE LEAF DECORATIVE METAL GATE*	*LOCKABLE FORK LATCH*

SCALE: N 1"=20'

0 5 20 40
SCALE IN FEET

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DATE: 9/30/2025

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REV #	REV DATE	REV DESCRIPTION

SEAL

REGISTERED PROFESSIONAL ENGINEER — CLAIRE R. BARICHELLO — 87203 — CIVIL — STATE OF CALIFORNIA

8/6/2025
Date Signed:

PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

SITE PLAN

PHASE DESCRIPTION
100% CD - DSA SUBMITTAL INCREMENT 1

DATE: 9/24/2025

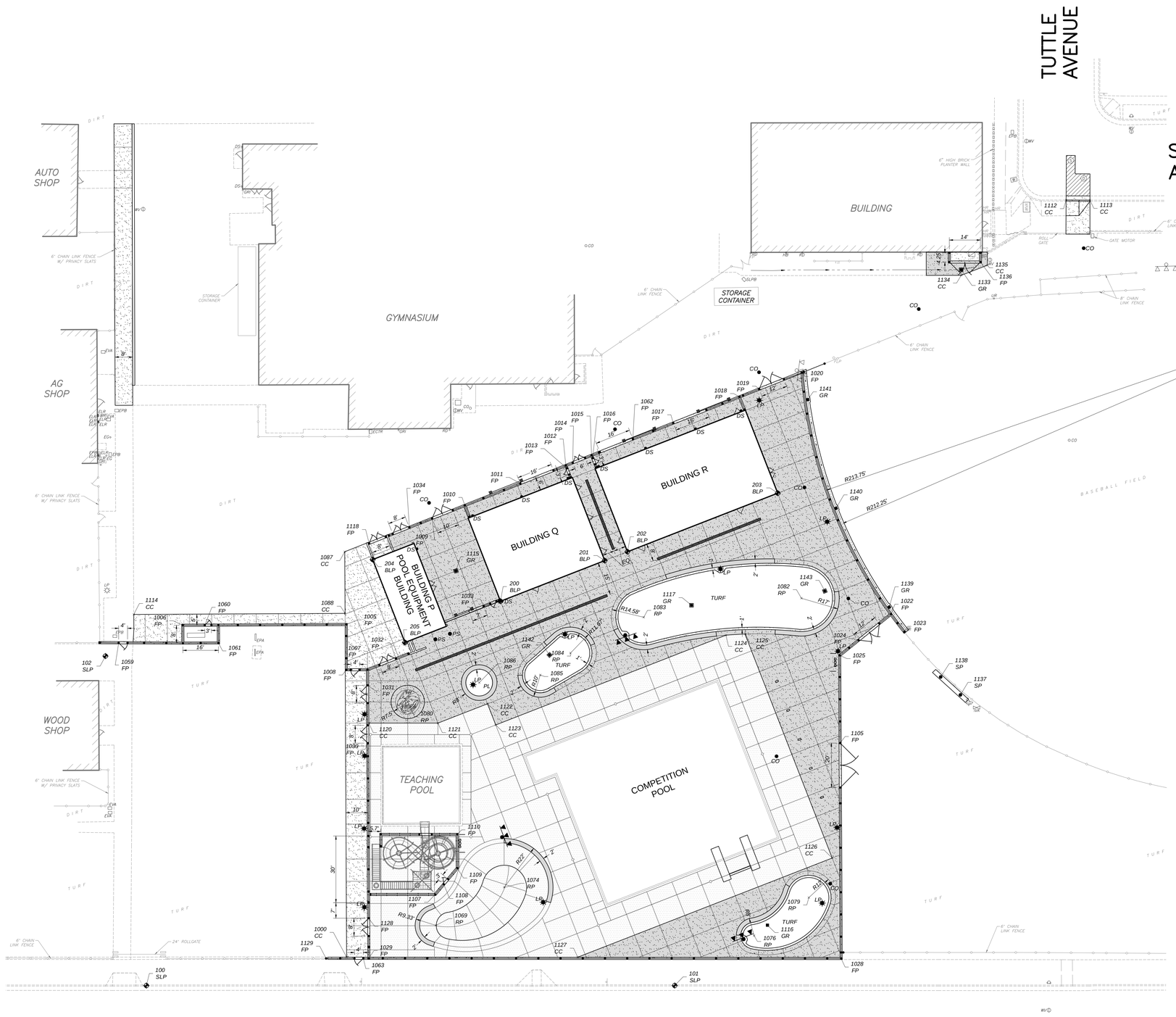
TECHNICIAN:

PROJECT MANAGER:

JOB NUMBER: 791

SHEET NUMBER
C3.01-1

Drawing: P:\22\22-03\7\Site\Production\Drawings\22437-SE0.dwg, C3.01-1 - ACF.ctb
Acad by: Luke Sep 24, 2025 - 1:20pm



HORIZONTAL CONTROL LEGEND:

1000 LCP	LAYOUT COORDINATE POINT
100 SLP	SITE LAYOUT POINT
200 BLP	BUILDING LAYOUT POINT

GENERAL HORIZONTAL CONTROL NOTES:

1. *SITE LAYOUT POINT 100 IS LOCATED ON TOP OF CURB APPROXIMATELY 98 FEET EAST OF THE EASTERLY CORNER OF THE WOOD SHOP BUILDING JUST NORTH OF THE DRIVE APPROACH*

   SITE LAYOUT POINT 101 IS LOCATED AT THE TOP OF CURB ON THE NORTHEAST SIDE OF DANIELS AVENUE APPROXIMATELY 60 FEET NORTHEAST OF THE PEDESTRIAN RAMP SOUTH OF THE POOL AREA

   SITE LAYOUT POINT 102 IS LOCATED APPROXIMATELY 11 FEET NORTHWEST OF THE NORTHWEST CORNER OF THE WOODSHOP BUILDING

2. *DIMENSIONS AND POINTS ARE TO CENTER OF FENCE POSTS, FACE OF BUILDINGS, TOP FACE OF CURB, OR EDGE OF CONCRETE, UNLESS SHOWN OTHERWISE.*

NORTHING EASTING TABLE

POINT	NORTHING	EASTING	ABV	DESCRIPTION
100	2120253.17	6194113.35	SLP	SITE LAYOUT POINT
101	2120430.52	6194271.68	SLP	SITE LAYOUT POINT
102	2120338.15	6193990.51	SLP	SITE LAYOUT POINT
200	2120487.18	6194090.50	BLP	BUILDING LAYOUT POINT
201	2120534.36	6194108.11	BLP	BUILDING LAYOUT POINT
202	2120544.65	6194111.95	BLP	BUILDING LAYOUT POINT
203	2120612.63	6194137.32	BLP	BUILDING LAYOUT POINT
204	2120456.77	6194038.20	BLP	BUILDING LAYOUT POINT
205	2120442.77	6194075.70	BLP	BUILDING LAYOUT POINT
1000	2120328.90	6194163.79	CC	CORNER CONCRETE
1005	2120428.44	6194052.08	FP	FENCE POST
1006	2120373.34	6194003.35	FP	FENCE POST
1007	2120421.99	6194073.60	FP	FENCE POST
1008	2120414.92	6194067.29	FP	FENCE POST
1009	2120489.05	6194042.20	FP	FENCE POST
1010	2120503.93	6194047.67	FP	FENCE POST
1011	2120529.12	6194056.96	FP	FENCE POST
1012	2120549.78	6194064.53	FP	FENCE POST
1013	2120549.31	6194065.81	FP	FENCE POST
1014	2120552.92	6194065.70	FP	FENCE POST
1015	2120561.47	6194068.84	FP	FENCE POST
1016	2120561.01	6194070.10	FP	FENCE POST
1017	2120598.58	6194082.48	FP	FENCE POST
1018	2120628.61	6194093.54	FP	FENCE POST
1019	2120637.58	6194096.83	FP	FENCE POST
1020	2120656.91	6194104.16	FP	FENCE POST
1022	2120614.39	6194211.84	FP	FENCE POST
1023	2120613.56	6194221.81	FP	FENCE POST
1024	2120595.72	6194210.85	FP	FENCE POST
1025	2120584.84	6194210.34	FP	FENCE POST
1028	2120494.52	6194312.46	FP	FENCE POST
1029	2120336.04	6194170.85	FP	FENCE POST
1030	2120400.14	6194098.34	FP	FENCE POST
1031	2120417.36	6194078.86	FP	FENCE POST
1032	2120434.92	6194078.42	FP	FENCE POST
1033	2120480.08	6194087.12	FP	FENCE POST
1034	2120478.72	6194038.40	FP	FENCE POST
1059	2120346.54	6193990.03	FP	FENCE POST
1060	2120380.74	6194009.90	FP	FENCE POST
1061	2120380.03	6194019.95	FP	FENCE POST
1062	2120580.24	6194075.74	FP	FENCE POST
1063	2120334.16	6194169.19	FP	FENCE POST
1069	2120368.43	6194179.92	RP	RADIUS POINT
1074	2120402.68	6194187.61	RP	RADIUS POINT
1076	2120472.13	6194278.73	RP	RADIUS POINT
1079	2120501.91	6194282.37	RP	RADIUS POINT
1080	2120425.89	6194096.51	RP	RADIUS POINT
1082	2120589.12	6194179.71	RP	RADIUS POINT
1083	2120530.47	6194138.82	RP	RADIUS POINT
1084	2120495.15	6194128.88	RP	RADIUS POINT

POINT	NORTHING	EASTING	ABV	DESCRIPTION
1085	2120478.44	6194127.17	RP	RADIUS POINT
1086	2120455.67	6194111.44	RP	RADIUS POINT
1087	2120449.74	6194027.21	CC	CORNER CONCRETE
1088	2120431.38	6194048.00	CC	CORNER CONCRETE
1105	2120558.71	6194239.89	FP	FENCE POST
1107	2120377.43	6194169.33	FP	FENCE POST
1108	2120383.37	6194168.47	FP	FENCE POST
1109	2120392.74	6194167.11	FP	FENCE POST
1110	2120402.77	6194155.76	FP	FENCE POST
1112	2120797.27	6194125.39	CC	CORNER CONCRETE
1113	2120805.24	6194132.58	CC	CORNER CONCRETE
1114	2120360.14	6193985.01	CC	CORNER CONCRETE
1115	2120481.34	6194066.93	GR	GRATE
1116	2120479.75	6194279.20	GR	GRATE
1117	2120550.09	6194149.10	GR	GRATE
1118	2120460.45	6194031.68	FP	FENCE POST
1119	2120826.98	6194233.64	RP	RADIUS POINT
1120	2120406.49	6194091.94	CC	CORNER CONCRETE
1121	2120429.66	6194112.63	CC	CORNER CONCRETE
1122	2120452.10	6194121.01	CC	CORNER CONCRETE
1123	2120448.53	6194130.58	CC	CORNER CONCRETE
1124	2120552.70	6194169.46	CC	CORNER CONCRETE
1125	2120559.58	6194174.93	CC	CORNER CONCRETE
1126	2120521.60	6194276.08	CC	CORNER CONCRETE
1127	2120406.45	6194233.09	CC	CORNER CONCRETE
1128	2120347.96	6194157.36	FP	FENCE POST
1129	2120321.60	6194158.10	FP	FENCE POST
1133	2120741.15	6194117.32	GR	GRATE
1134	2120739.50	6194119.21	CC	CORNER CONCRETE
1135	2120751.29	6194123.67	CC	CORNER CONCRETE
1136	2120749.94	6194120.52	FP	FENCE POST
1137	2120613.51	6194259.78	SP	SCOREBOARD POST
1138	2120612.26	6194247.84	SP	SCOREBOARD POST
1139	2120615.92	6194208.98	GR	GRATE
1140	2120627.70	6194159.87	GR	GRATE
1141	2120650.73	6194114.93	GR	GRATE
1142	2120487.55	6194123.24	GR	GRATE
1143	2120599.13	6194184.28	GR	GRATE

SCALE: N 1"=20'

0 5 20 40
SCALE IN FEET

Know what's below. Call before you dig.

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Fax:(559) 326-1500

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123309 INC: 1
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 9/30/2025

AGD ARCHITECTURE | DESIGN
ANDREW GOODWIN DESIGNS
1238 MONTEREY STREET
SAN LUIS OBISPO, CA 93422
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REVISIONS

REV #	REV DATE	REV DESCRIPTION

SEAL

REGISTERED PROFESSIONAL ENGINEER
LANE R. BARTLETT
No. 91033
CIVIL
STATE OF CALIFORNIA
8/6/2025
Date Signed:

PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

HORIZONTAL CONTROL PLAN

PHASE DESCRIPTION
100% CD - DSA SUBMITTAL INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: SD
PROJECT MANAGER: LB
JOB NUMBER: 791

SHEET NUMBER
C4.01-1

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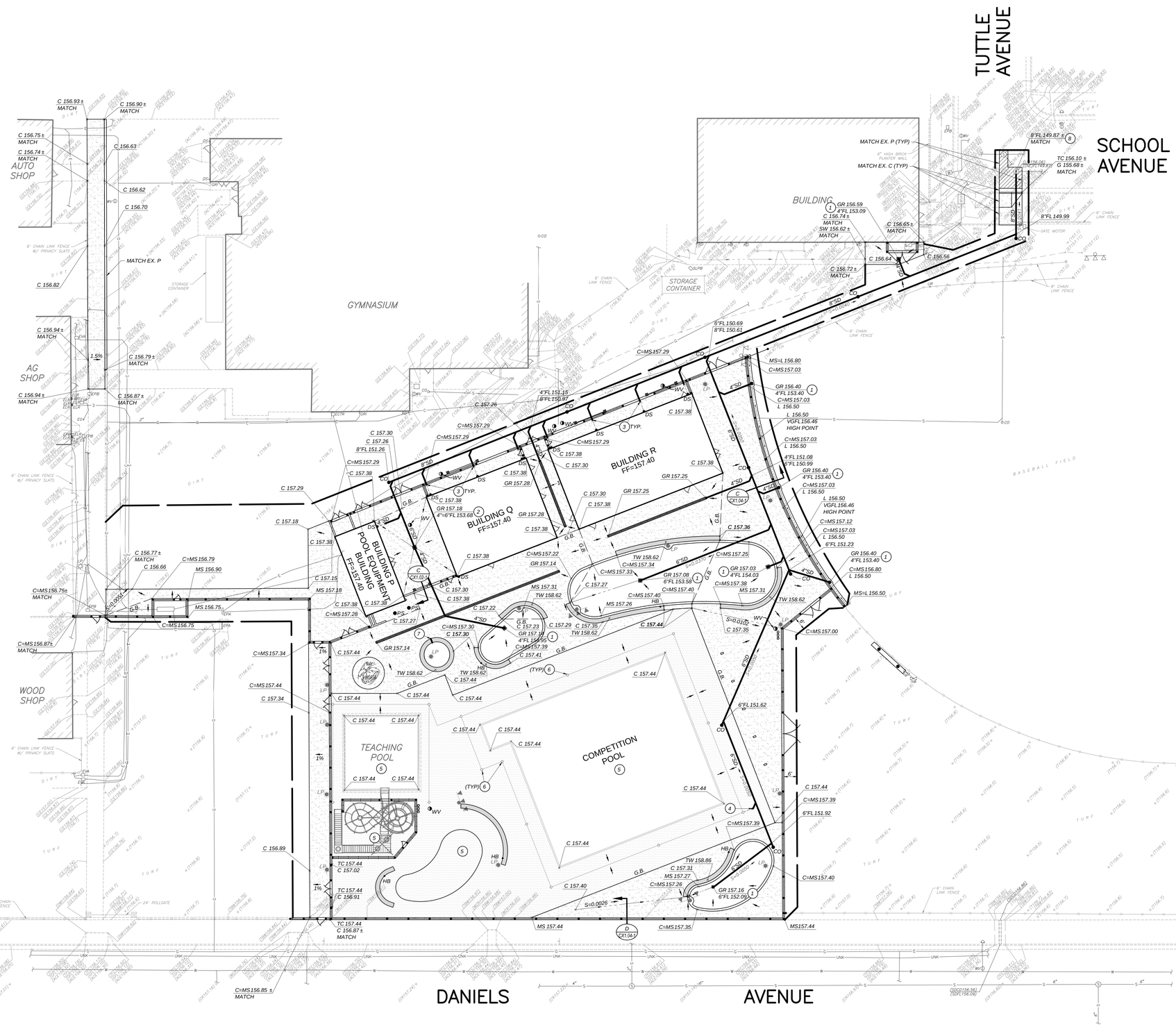
TUTTLE AVENUE
SCHOOL AVENUE
DANIELS AVENUE
BUILDING Q FF=157.40
BUILDING R FF=157.40
BUILDING P POOL EQUIPMENT BUILDING FF=157.40
GYMNASIUM
AG SHOP
AUTO SHOP
WOOD SHOP
STORAGE CONTAINER
TEACHING POOL
COMPETITION POOL
BASEBALL FIELD
MATCH EX. P (TYP)
MATCH EX. C (TYP)
6" HIGH BRICK PLANTER WALL
6' CHAIN LINK FENCE
6' CHAIN LINK FENCE W/ PRIVACY SLATS
24' ROLLGATE
GATE MOTOR
8"FL 149.87 ± MATCH
TC 156.10 ± G 155.68 ± MATCH
8"FL 149.99
C 156.65 ± MATCH
C 156.64
C 156.56
C 156.72 ± MATCH
SW 156.62 ± MATCH
GR 156.59
1 rFL 153.09
C 156.74 ± MATCH
C 156.93 ± MATCH
C 156.90 ± MATCH
C 156.75 ± MATCH
C 156.74 ± MATCH
C 156.63
C 156.62
C 156.70
MATCH EX. P
C 156.82
C 156.94 ± MATCH
C 156.79 ± MATCH
C 156.87 ± MATCH
C 156.94 ± MATCH
1.5%
C 156.77 ± MATCH
C 156.66
C=MS156.79
MS 156.90
C=MS156.75± MATCH
MS 156.75
C=MS156.75
C=MS156.87± MATCH
C 156.89
C=MS156.85 ± MATCH
C 157.29
C 157.18
C 157.15
MS 157.18
C 157.30
C 157.26
8"FL 151.26
C=MS157.29
C 157.38
C 157.34
C 157.44
C 157.25
C=MS157.28
C 157.22
C=MS157.30
C 157.39
4"FL 154.05
GR 157.14
C 157.41
C=MS157.34
C=MS157.44
TW 158.62
HB
(TYP) 6
C=MS157.39
6"FL 151.62
C=MS157.39
6"FL 151.92
C=MS157.40
C 157.40
TW 158.86
C 157.31
MS 157.27
C=MS157.26
GR 157.16
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C=MS157.35
MS 157.44
C=MS157.00
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C 157.35
C 157.36
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GR 157.08
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C=MS157.38
MS 157.31
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MS 157.26
C 157.27
C 157.35
TW 158.62
GR 157.03
4"FL 154.03
C=MS157.22
GR 157.14
MS 157.31
C 157.23
C 157.29
GR 157.18
4"FL 154.05
C 157.41
C 157.22
4"=6"FL 153.68
GR 157.18
GR 157.28
GR 157.25
C 157.38
C 157.30
C 157.27
GR 157.40
4"FL 153.40
C=MS157.03
L 156.50
VGFL 156.46
HIGH POINT
C=MS157.12
6"FL 151.23
C=MS156.80
L 156.50
MS=L 156.50
MS=L 156.80
C=MS157.03
4"FL 151.15
6"FL 150.97
6"FL 150.69
8"FL 150.61
4"FL 151.08
6"FL 150.99
4"SD
6"SD
8"SD
DS
CO
WV
HB
LP
TYP.
1%
1.5%
G.B.
TC 157.44
C 157.02
TC 157.44
C 156.91
TC 157.44
C 156.87 ± MATCH
C 157.44
C 157.02
C 156.91
C 156.87 ± MATCH
C 157.44
C 157.38
C 157.30
C 157.26
8"FL 151.26
C 157.29
C 157.18
C 157.15
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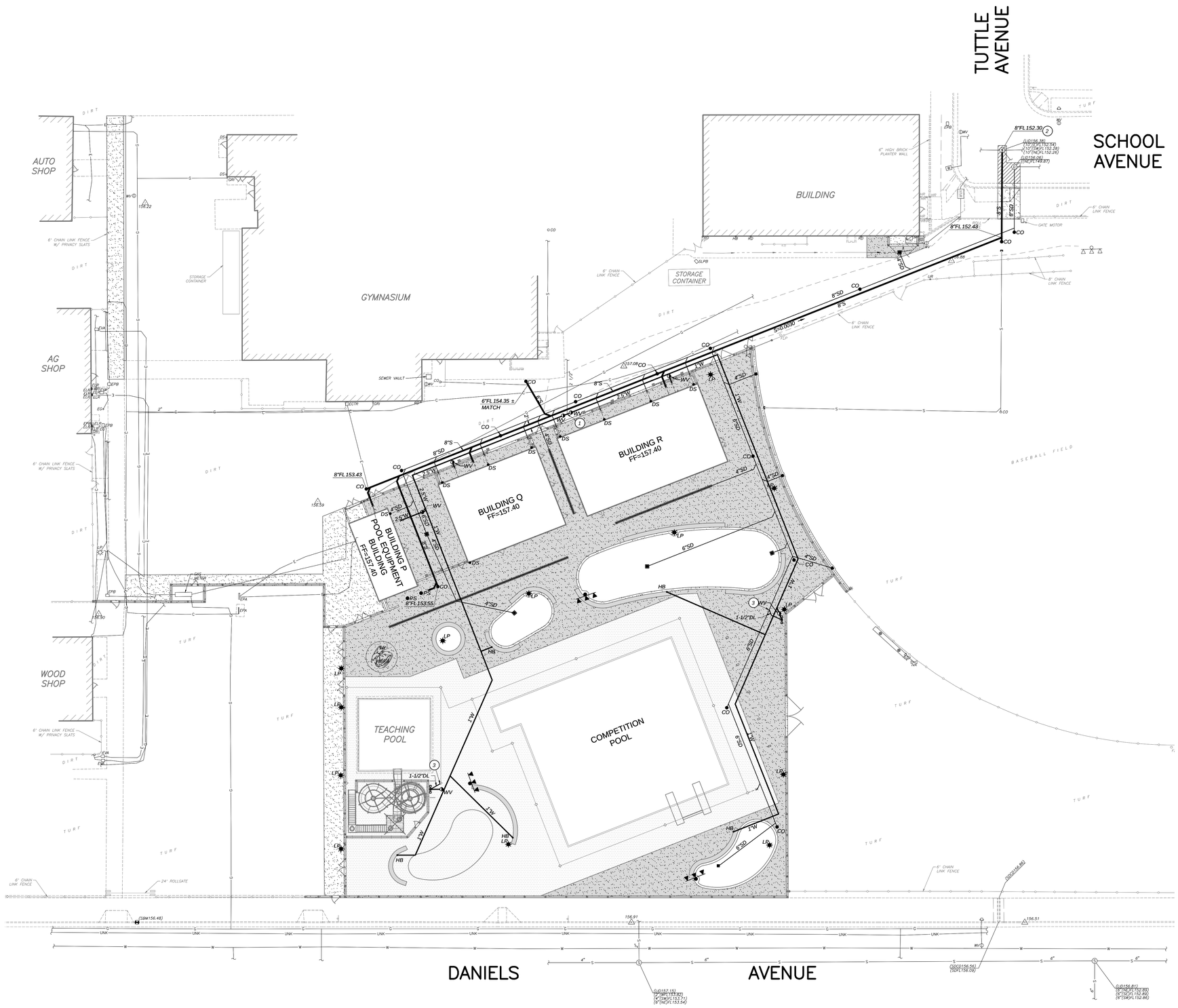

UTILITY LEGEND:

4"S	*SEWER MAIN, SIZE AS NOTED ON PLANS. PIPE BEDDING AND BACKFILL PER DETAIL [G/CX1.01-1]*
1"W	*WATER MAIN, SIZE AS NOTED ON PLANS, MIN. 30" COVER, PIPE BEDDING AND BACKFILL PER DETAIL [G/CX1.01-1]*
SD	*STORM DRAIN PIPE, SEE GRADING PLAN*
DL	*DRAIN LINE, SIZE AS NOTED*
FF	*FINISHED FLOOR*
FL	*FLOWLINE*
	DRINKING FOUNTAIN PER DETAIL [A/CX1.02-1]
HB	*HOSE BIBB, SEE AQUATICS PLANS*
PS	*OUTDOOR COLUMN SHOWER, SEE ARCHITECTURAL PLANS; FOR SHOWER DRAIN LINE, SEE PLUMBING PLANS*
WV	*WATER VALVE PER [B/CX1.02-1]*
CO	*SEWER CLEANOUT PER DETAIL [H/CX1.01-1]*
	CAP END OF UTILITY LINE
	POINT OF CONNECTION TO EXISTING OR PROPOSED UTILITY, COORDINATE WITH PLUMBING PLANS PRIOR TO CONNECTION.
S=0.0020	*FLOWLINE SLOPE AND DIRECTION OF FLOW*
1	*CONNECT TO EXISTING WATER LINE WITH WATER-TIGHT CONNECTION. VERIFY SIZE, DEPTH, AND LOCATION.*
2	*CONNECT TO EXISTING SEWER LINE WITH WATER-TIGHT CONNECTION. VERIFY SIZE, DEPTH, AND LOCATION.*
3	*CONNECT DRINKING FOUNTAIN DRAIN LINE TO STORM DRAIN UTILITY WITH WATER-TIGHT CONNECTION.*

GENERAL SITE UTILITY NOTES:

1. *AS FIRST ORDER OF WORK, CONTRACTOR SHALL POTHOLE EXISTING UTILITIES AND NOTIFY ENGINEER IMMEDIATELY OF LOCATIONS, SIZE AND DEPTH.*
2. *THE CONTRACTOR SHALL FIELD VERIFY THE EXACT LOCATION, SIZE, DEPTH, AND TYPE OF ALL EXISTING UTILITIES AND INTERFERENCES SITUATED ALONG THE ROUTE OF THE PROPOSED CONSTRUCTION PRIOR TO COMMENCEMENT OF EXCAVATION, FABRICATION, AND INSTALLATION. THE CONTRACTOR SHALL CONSTRUCT ALL IMPROVEMENTS IN SUCH A MANNER AS WILL PROTECT ALL EXISTING UNDERGROUND UTILITIES AND, IN THE EVENT OF ANY CONFLICTS, SHALL NOTIFY THE ENGINEER BEFORE PROCEEDING.*
3. *SEE IRRIGATION PLANS FOR PROPOSED IRRIGATION PIPE ALIGNMENT.*
4. *COORDINATE EXACT POINTS OF CONNECTION TO BUILDING PLUMBING AND NOTIFY THE ENGINEER OF ANY CONFLICT SO THAT ADJUSTMENTS CAN BE MADE IF NEEDED.*
5. *SAWCUT EXISTING CONCRETE IMPROVEMENTS AS NECESSARY TO INSTALL NEW WATER OR SEWER IMPROVEMENTS. CONSTRUCT NEW CONCRETE IMPROVEMENTS TO MATCH ADJACENT CONCRETE IMPROVEMENTS AND JOIN TOGETHER WITH DOWEL BARS PER DETAIL [C/CX1.01-1]*
6. *INSTALLATION, TYPE, AND MANUFACTURER'S MODELS OF DOMESTIC WATER METERS, DRAIN INLETS/OUTLETS AND OTHER APPURTENANCES OF SITE UTILITY SYSTEMS SHALL BE DONE IN STRICT ACCORDANCE WITH GOVERNING AUTHORITY REQUIREMENTS.*
7. *LAYOUT OF MATERIALS, EQUIPMENT AND SYSTEMS IS GENERALLY DIAGRAMMATIC UNLESS SPECIFICALLY DIMENSIONED. SOME WORK MAY BE SHOWN OFFSET FOR CLARITY. THE ACTUAL LOCATIONS OF ALL MATERIALS, PIPING, FIXTURES, EQUIPMENT, SUPPORTS, ETC., SHALL BE CAREFULLY PLANNED PRIOR TO INSTALLATION OF ANY WORK TO AVOID ALL INTERFERENCES WITH EACH OTHER OR WITH STRUCTURAL, ELECTRICAL, PLUMBING AND MECHANICAL, ARCHITECTURAL OR ANY OTHER ELEMENTS. ALL CONFLICTS SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT AND THE ENGINEER PRIOR TO THE INSTALLATION OF ANY WORK OR THE ORDERING OF ANY EQUIPMENT.*
8. *ANY INSPECTION TO BE MADE BY THE AUTHORITY HAVING JURISDICTION SHALL REQUIRE A MINIMUM OF 24 HOUR NOTICE.*
9. *PURITY TESTS ARE REQUIRED ON ALL WATER SYSTEM INSTALLATIONS. CONTRACTOR TO COORDINATE WITH THE AUTHORITY HAVING JURISDICTION.*
10. *IF THE TOP OF THE STEM OF ANY WATER GATE VALVE IS DEEPER THAN 4' BELOW FINISHED PAVEMENT GRADE, THE CONTRACTOR SHALL INSTALL A STEM EXTENSION SO THAT THE TOP OF THE STEM, WITH EXTENSION, SHALL BE NO DEEPER THAN 4' NOR SHALLOWER THAN 2' FROM FINISHED GRADE.*
11. *BACKFILL UTILITY TRENCHES PER DETAIL [G/CX1.01-1]*
12. *ADJUST EXISTING UTILITY LIDS TO FINISHED GRADE PER UTILITY COMPANY STANDARDS AND DETAIL [F/CX1.01-1] AND INSTALL TRAFFIC RATED LIDS WHERE LOCATED IN A TRAFFIC AREA.*

COUNTY OF FRESNO GENERAL CONSTRUCTION NOTES

1. *AN ENCROACHMENT PERMIT IS REQUIRED FOR ANY WORK TO BE PERFORMED IN THE COUNTY OF FRESNO ROAD RIGHTS-OF-WAY. CONTACT THE COUNTY PERMIT ENGINEER AT (559) 600-4240 TO OBTAIN THE PERMIT. IF AN ENCROACHMENT PERMIT HAS NOT BEEN OBTAINED WITHIN 12 MONTHS OF THE APPROVAL DATE OF THESE PLANS, ADDITIONAL REVIEW AND REVISIONS TO THE PLANS MAY BE REQUIRED BEFORE THE PERMIT IS ISSUED.*
2. *ALL CONTRACTORS ARE REQUIRED TO HAVE A $6000.00 PERFORMANCE BOND ON FILE WITH THE COUNTY OF FRESNO'S MAINTENANCE & OPERATIONS DIVISION PRIOR TO OBTAINING AN ENCROACHMENT PERMIT.*
3. *NO COUNTY OF FRESNO PUBLIC ROAD SHALL BE CLOSED WITHOUT PRIOR APPROVAL FROM THE COUNTY OF FRESNO'S MAINTENANCE ENGINEER.*
4. *NO STORAGE OF EQUIPMENT OR MATERIALS WILL BE ALLOWED IN THE PUBLIC RIGHT-OF-WAY.*
5. *NO OPEN EXCAVATION ALLOWED AFTER WORKING HOURS. ALL EXCAVATION AREAS TO BE PROPERLY SECURED WHEN WORK CREWS ARE AWAY FROM SITE, ALL EXCAVATIONS IN ROAD AND SHOULDER AREA TO BE STEEL PLATED.*
6. *DIRT OR DEBRIS TRACKED ONTO EXISTING COUNTY ROADS FROM THIS PROJECT SHALL BE CLEANED OFF AT THE END OF EACH WORKING DAY TO THE SATISFACTION OF THE COUNTY INSPECTOR.*
7. *ACCESS TO ALL PROPERTIES SHALL BE PROVIDED AND MAINTAINED AT ALL TIMES. UNLESS ARRANGEMENTS, IN WRITING ARE MADE WITH THE PROPERTY OWNERS TO DEVIATE FROM THIS REQUIREMENT.*
8. *RESTORE ALL EXISTING DRAINAGE PATTERNS AND FACILITIES TO PRECONSTRUCTION CONDITIONS OR BETTER*
9. *ALL SIGNING, DETOURING AND BARRICADING SHALL CONFORM TO THE LATEST EDITION OF THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE ACCEPTED TRAFFIC CONTROL PLAN.*
10. *PURSUANT TO SECTIONS 8771(b) AND 877(C) OF THE GOVERNMENT CODE, ANY MONUMENTS THAT CONTROL THE LOCATIONS OF BOUNDARIES OR OTHERWISE PROVIDE HORIZONTAL OR VERTICAL SURVEY CONTROL WITHIN THE CONSTRUCTION AREA, SHALL BE LOCATED AND REFERENCED PRIOR TO CONSTRUCTION, AND A CORNER RECORD OR RECORD OF SURVEY OF THE REFERENCES SHALL BE FILLED WITH THE COUNTY SURVEYOR.*
11. *CONTRACTOR SHALL SUBMIT TRAFFIC CONTROL PLAN FOR APPROVAL BY THE COUNTY OF FRESNO PRIOR TO ANY CONSTRUCTION IN PUBLIC RIGHT-OF-WAY.*

Know what's below. Call before you dig.

Blair, Church & Flynn
CONSULTING ENGINEERS
451 Clovis Avenue, Suite 200
Clovis, California 93612
Tel (559) 326-1400
Fax (559) 326-1500

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SEAL

REGISTERED PROFESSIONAL ENGINEER
LANE R. BARTHEL
No. 87693
CIVIL
STATE OF CALIFORNIA
8/6/2025
Date Signed:

PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

UTILITY PLAN

PHASE DESCRIPTION
100% CD - DSA SUBMITTAL INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: SD
PROJECT MANAGER: LB
JOB NUMBER: 791
SHEET NUMBER
C6.01-1

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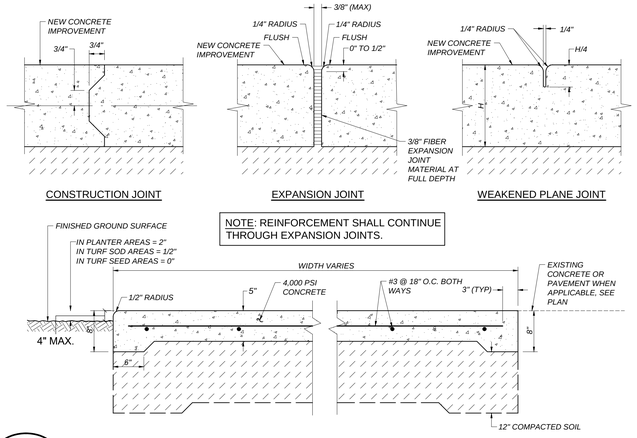
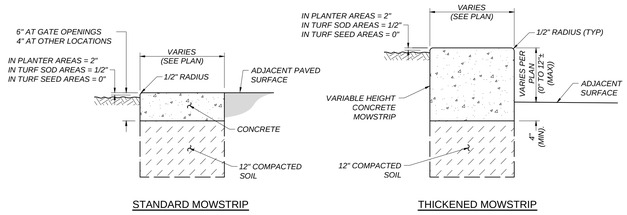


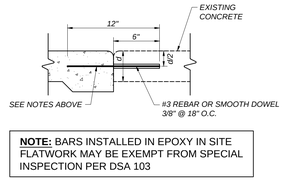
A CX1.01-1 REGULAR-DUTY CONCRETE
NOT TO SCALE



B CX1.01-1 CONCRETE MOWSTRIP
NOT TO SCALE

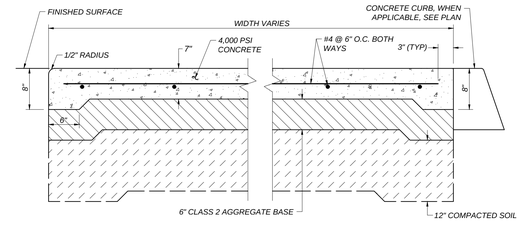
NOTES:

1. DRILL HOLE 1/8" LARGER THAN DOWEL DIAMETER.
2. CLEAN HOLE THOROUGHLY OF DUST AND FRAGMENTS WITH WATER, WIRE BRUSH, AND AIR.
3. INSTALL DOWELS IN SIMPSON SET-3G EPOXY. INSTALL IN CONFORMANCE WITH ICC ESR-4057.
4. WHERE SMOOTH DOWEL IS USED, APPLY BOND BREAKER TO SIDE IN NEW CONCRETE AS REQUIRED TO ALLOW HORIZONTAL MOVEMENT OF CONCRETE.
5. WHERE DEFORMED REBAR DOWEL IS USED, PROVIDE APPROVED WRAP ON SIDE IN NEW CONCRETE AS REQUIRED TO ALLOW HORIZONTAL MOVEMENT OF CONCRETE.



NOTE: BARS INSTALLED IN EPOXY IN SITE FLATWORK MAY BE EXEMPT FROM SPECIAL INSPECTION PER DSA 103

C CX1.01-1 DOWEL BAR
NOT TO SCALE



D CX1.01-1 HEAVY DUTY CONCRETE PAVEMENT STRUCTURAL SECTION
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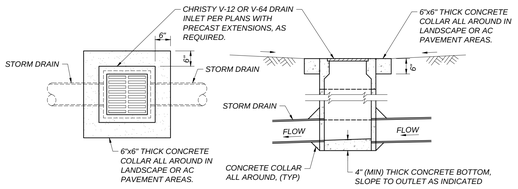
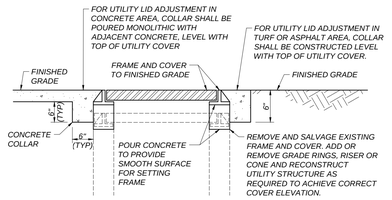


E CX1.01-1 V-12 DRAIN INLET WITH CONCRETE COLLAR
NOT TO SCALE



F CX1.01-1 ADJUST UTILITY LID
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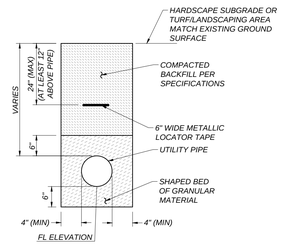

G CX1.01-1 TRENCH DETAIL FOR UTILITY LINES
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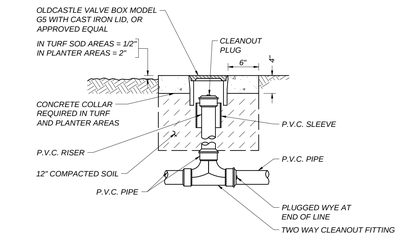
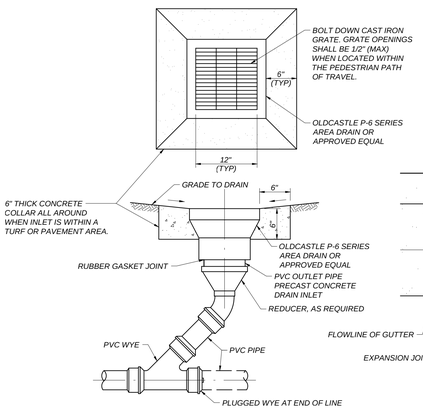


NOTES:

1. USE ONE-WAY CLEANOUTS AT ALL ANGLE POINTS
2. TWO-WAY CLEANOUTS AT ALL OTHER LOCATIONS
3. 6" THICK CONCRETE COLLAR IN VEHICULAR TRAFFIC AREAS

H CX1.01-1 SURFACE CLEANOUT
NOT TO SCALE



I CX1.01-1 P-6 SERIES AREA DRAIN
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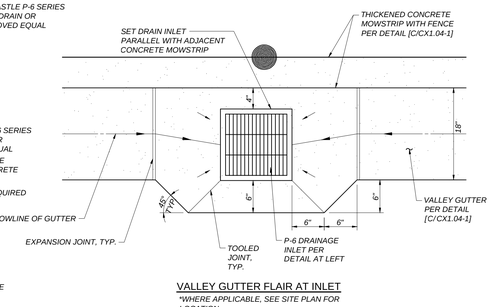
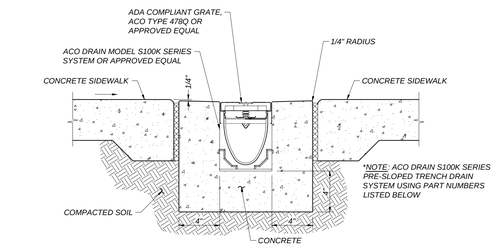


VALLEY GUTTER FLAIR AT INLET
*WHERE APPLICABLE, SEE SITE PLAN FOR LOCATION



J CX1.01-1 TYPICAL PRE-SLOPED DRAIN
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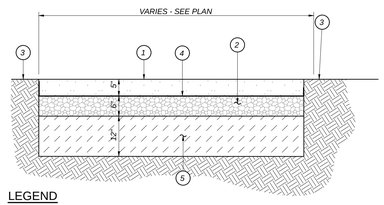
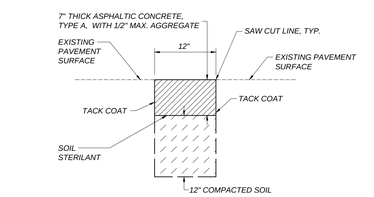


LEGEND

1. STABILIZED DECOMPOSED GRANITE SURFACE. SEE SPECIFICATIONS FOR MATERIALS AND METHODS. CONTRACTOR TO SUBMIT SAMPLE FOR APPROVAL.
2. 3/4" (MAX) TYPE 2 AGGREGATE BASE, COMPACTED TO 95%.
3. ADJACENT DECOMPOSED GRANITE SURFACING OR FINISHED GRADE.
4. NON-WOVEN GEOTEXTILE FABRIC, MINIMUM 4.0 OZ/SY. WRAP UP 1.5" HIGH ON ALL SIDES OF HEADER.
5. SUBGRADE. SCARIFY TO A DEPTH OF 12" MOISTURE CONDITION AND RECOMPACT TO 95% RELATIVE DENSITY.

K CX1.01-1 STABILIZED DECOMPOSED GRANITE SURFACE
NOT TO SCALE



L CX1.01-1 ASPHALT CONCRETE PLUG
NOT TO SCALE

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481 Clovis Avenue, Suite 200
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Tel (559) 326-1400
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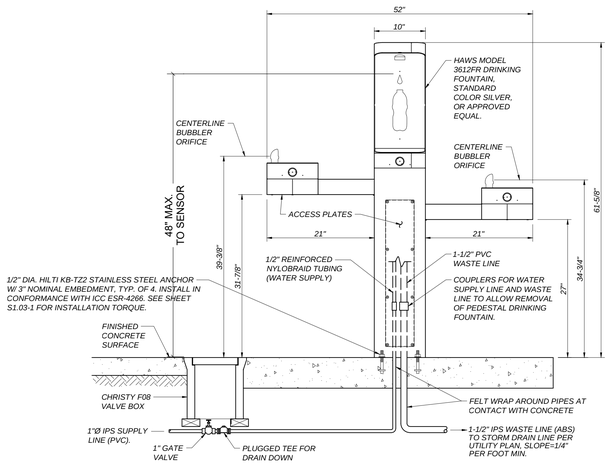
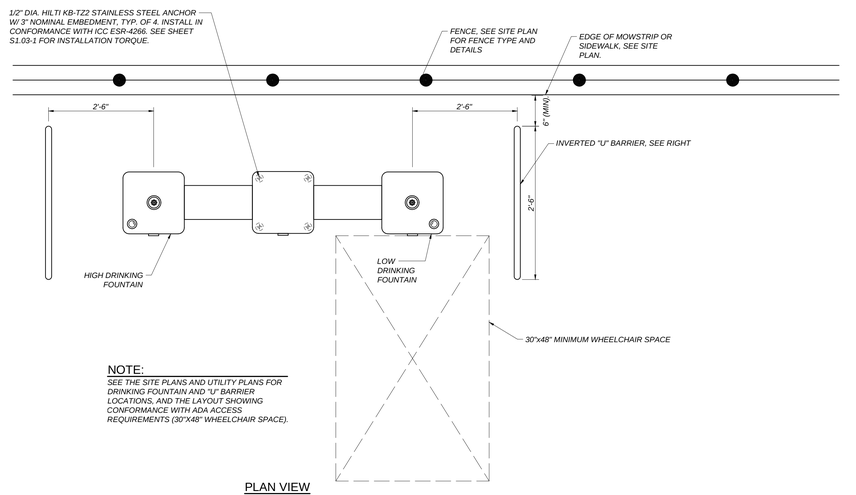
Plot by: Luke Sept 24, 2025 - 1:21pm



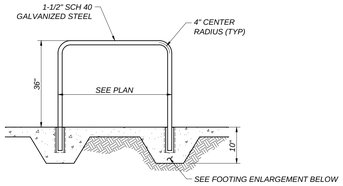
SIDE VIEW



PLAN VIEW

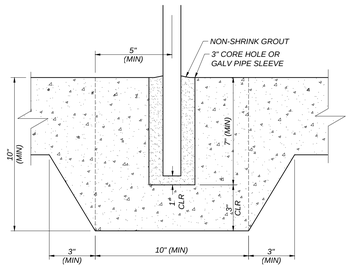
NOTE:

SEE THE SITE PLANS AND UTILITY PLANS FOR DRINKING FOUNTAIN AND "U" BARRIER LOCATIONS, AND THE LAYOUT SHOWING CONFORMANCE WITH ADA ACCESS REQUIREMENTS (30"X48" WHEELCHAIR SPACE).



"U" BARRIER ELEVATION VIEW

NOT TO SCALE

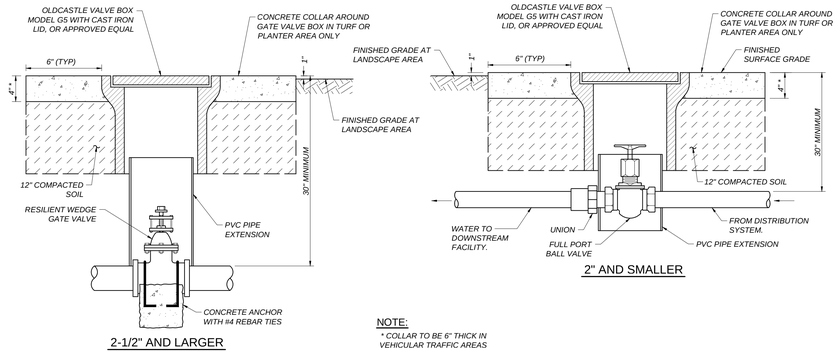


"U" BARRIER FOOTING ENLARGEMENT

NOT TO SCALE

A CX1.02-1 DRINKING FOUNTAIN

NOT TO SCALE



2-1/2" AND LARGER

2" AND SMALLER

NOTE:

** COLLAR TO BE 6" THICK IN VEHICULAR TRAFFIC AREAS*

B CX1.02-1 GATE VALVE AND LID

NOT TO SCALE

FENCE AND ROLL GATE ITEMS:

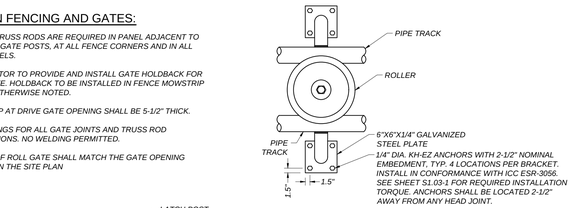
1. 2-7/8" O.D. GALVANIZED STEEL POST (5.79 lbs/ft)
2. 2-3/8" O.D. GALVANIZED STEEL LINE POST (3.65 lbs/ft)
3. 2" O.D. GALVANIZED STEEL GATE FRAME (2.72 lbs/ft)
4. 1-5/8" O.D. GALVANIZED STEEL DOUBLE HORIZONTAL TRACK RAIL (2.27 lbs/ft)
5. 2" X 2" MESH X 9 GAUGE GALVANIZED FENCE FABRIC WITH KNUCKLED TOP AND BOTTOM SELVAGE. GALVANIZE BEFORE WEAVING, (GBW)
6. 1/4" X 3/4" GALVANIZED STEEL STRETCHER BAR
7. 9 GAUGE (0.148" DIA.) GALVANIZED STEEL TIE WIRES OR HOG RINGS AT 15" MAXIMUM SPACING
8. 9 GAUGE (0.192" DIA.) GALVANIZED STEEL POST CLIPS AT 14" MAXIMUM SPACING
9. 6" TURNBUCKLE ADJUSTERS FOR 3/8" DIA. TRUSS RODS
10. 3/8" DIA. GALVANIZED STEEL ADJUSTABLE TRUSS RODS

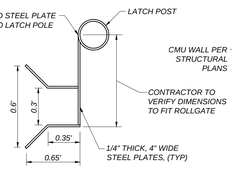
NOTES ON FENCING AND GATES:

1. *DOUBLE TRUSS RODS ARE REQUIRED IN PANEL ADJACENT TO OPENING, GATE POSTS, AT ALL FENCE CORNERS AND IN ALL GATE PANELS.*
2. *CONTRACTOR TO PROVIDE AND INSTALL GATE HOLDBACK FOR EACH GATE. HOLDBACK TO BE INSTALLED IN FENCE MOWSTRIP UNLESS OTHERWISE NOTED.*
3. *MOWSTRIP AT DRIVE GATE OPENING SHALL BE 5-1/2" THICK.*
4. *USE FITTINGS FOR ALL GATE JOINTS AND TRUSS ROD CONNECTIONS. NO WELDING PERMITTED.*
5. *LENGTH OF ROLL GATE SHALL MATCH THE GATE OPENING SHOWN ON THE SITE PLAN*

NOTE:

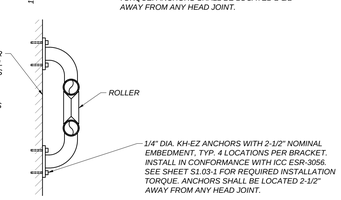
ROLL GATE ORIENTATION SHOWN IN THE DETAIL BELOW MAY NOT APPLY TO THE GATE INSTALLATION SHOWN ON THE SITE PLAN. SEE SITE PLAN FOR ROLL GATE ORIENTATION AND OPENING DIRECTION





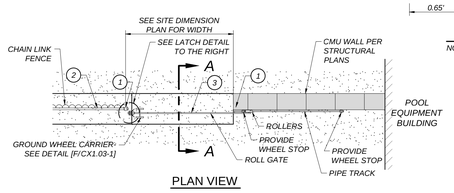
LATCH

NOT TO SCALE

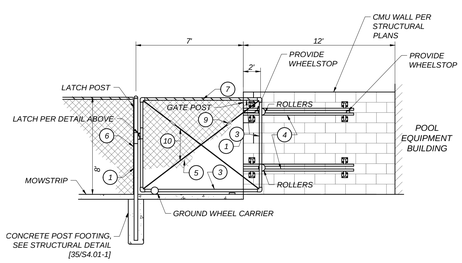


PIPE TRACK BRACKET

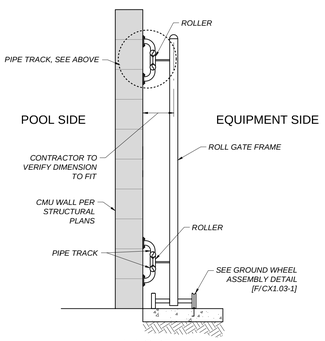
NOT TO SCALE



PLAN VIEW



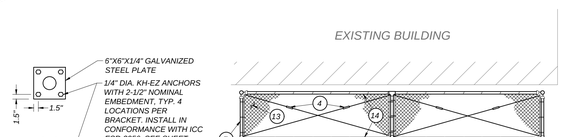
FRONT VIEW



A-A SIDE VIEW

C CX1.02-1 ROLL GATE AT CMU WALL INSTALLATION

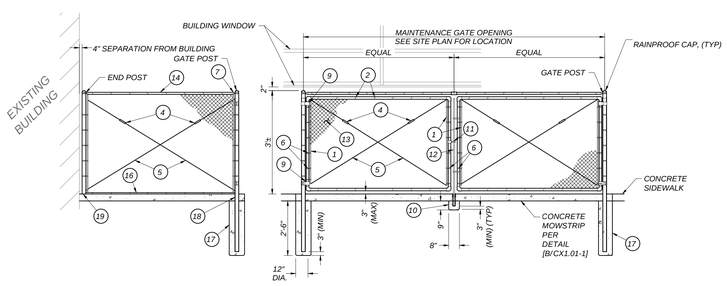
NOT TO SCALE



SURFACE MOUNT DETAIL

NOT TO SCALE

PLAN VIEW



SIDE ELEVATION VIEW

FRONT ELEVATION VIEW

NOTE:

CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF THE EXISTING BUILDING'S WINDOW AND THE EXISTING UTILITIES TO BE PROTECTED IN PLACE PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CONFLICTS.

D CX1.02-1 IRRIGATION BOOSTER PUMP EQUIPMENT ENCLOSURE ELEVATION AND PLAN VIEWS

NOT TO SCALE

OPEN FABRIC CHAIN LINK FENCE AND GATE LEGEND:

1. *1/8" X 3/4" GALVANIZED STEEL STRETCHER BAR.*
2. *9 GAUGE (0.148" DIA) GALVANIZED STEEL TIE WIRES OR HOG RINGS AT 15" MAXIMUM SPACING. MINIMUM OF 8 TIE WIRES PER EACH 10' HORIZONTAL RAIL.*
3. *6 GAUGE (0.192" DIA) GALVANIZED STEEL POST CLIPS AT 14" MAXIMUM SPACING. MINIMUM 3 POST CLIPS FOR EACH 4' POST.*
4. *GALVANIZED ADJUSTABLE TURNBUCKLE FOR 3/8" DIAMETER TRUSS ROD.*
5. *3/8" DIAMETER GALVANIZED STEEL ADJUSTABLE TRUSS ROD. TRUSS RODS REQUIRED FOR ALL GATE POST PANELS, END OR CORNER POST PANELS.*
6. *1/8" THICK GALVANIZED STEEL STRETCHER BAR TENSION BAND AT 12" MAXIMUM SPACING. MINIMUM OF 4 TENSION BANDS FOR EACH 4' POST SECTION.*
7. *GALVANIZED RAIL ENDS.*
8. *CONCRETE FOOTING, TYPICAL.*
9. *HINGES PER THE SPECIFICATION.*
10. *GALVANIZED STEEL PIPE SLEEVE FOR GATE DROP ROD.*
11. *LOCKABLE FORK LATCH PER SPECIFICATIONS*
12. *CENTER GATE DROP POST AND LATCH*
13. *THE FENCE FABRIC SHALL BE 2" X 2" MESH X 9 GAUGE GALVANIZED FABRIC. ALL FENCE FABRIC SHALL HAVE A KNUCKLED TOP AND BOTTOM SELVAGE. FENCE FABRIC TO BE GALVANIZED BEFORE WEAVING, 1.2 OZ TYPE II CLASS.*
14. *1.66" O.D. HORIZONTAL RAILS, SCHEDULE 40*
15. *1.66" O.D. HORIZONTAL RAILS, SCHEDULE 40*
16. *TENSION WIRE*
17. *6" O.D. GATE POST, SCHEDULE 40*
18. *2-7/8" O.D. END POST, SCHEDULE 40*
19. *SURFACE MOUNTED POST PER DETAIL; SEE TOP LEFT*

OPEN FABRIC FABRIC CHAIN LINK FENCE AND GATE NOTES:

1. *GATE FRAME SHALL BE 2" O.D. GALVANIZED STEEL (2.72 LB/FT).*
2. *MATCH OWNER'S LOCKSET GATE HARDWARE AND KEYING SYSTEM FOR ALL KEYED GATES.*
3. *DOUBLE TRUSS RODS ARE REQUIRED IN PANELS ADJACENT TO GATE POSTS AND AT ALL FENCE CORNERS AND END PANELS.*
4. *ALL GATE CORNERS AND SUPPORT POINTS SHALL BE FASTENED TOGETHER AND REINFORCED WITH MALLEABLE IRON FITTINGS DESIGNED FOR THAT PURPOSE. WELDED CONNECTIONS WILL NOT BE ALLOWED.*
5. *TACK WELD ALL GATE HINGES AND LATCH COLLARS TO POST.*
6. *ALL AREAS AFFECTED BY WELDING, TRIMMED ENDS OF BOLTS, STRETCHER BARS, TRUSS RODS OR ANY EXPOSED STEEL SHALL BE PAINTED (GALVANIZED) PER CONTRACT SPECIFICATIONS.*

Blair, Church & Flynn
CONSULTING ENGINEERS
451 Clovis Avenue, Suite 200
Clovis, California 93612
Tel (559) 326-1400
Fax (559) 326-1500

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123309 INC: 1
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 9/30/2025

AGD
ARCHITECTURE | DESIGN
ANDREW GOODWIN DESIGNS
1238 MONTEREY STREET
SAN LUIS OBISPO, CA 93422
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www.andrewgoodwin.us

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REVISIONS

REV #	REV DATE	REV DESCRIPTION

SEAL

REGISTERED PROFESSIONAL ENGINEER — LANCE R. BLAIR — No. 47183 — CIVIL — STATE OF CALIFORNIA

8/6/2025
Date Signed

PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

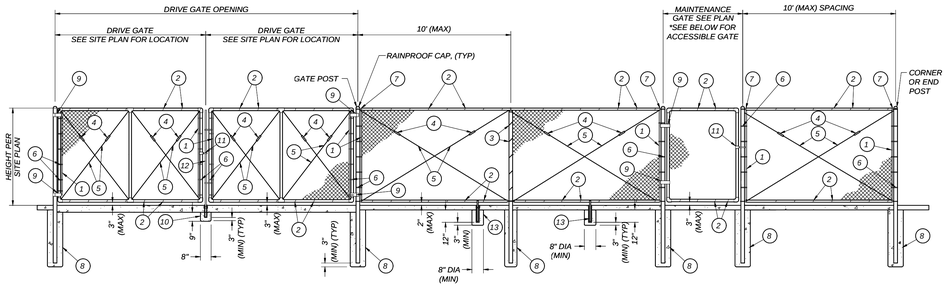
DETAILS

PHASE DESCRIPTION
100% CD - DSA SUBMITTAL INCREMENT 1

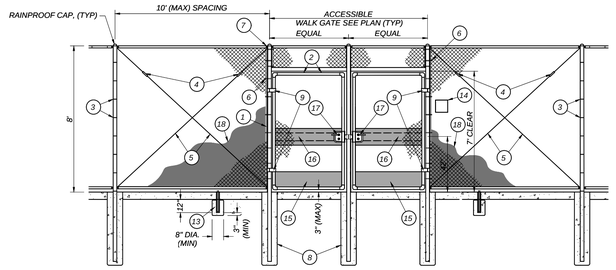
DATE: 9/24/2025
TECHNICIAN: SD
PROJECT MANAGER: LB
JOB NUMBER: 791

SHEET NUMBER
CX1.02-1

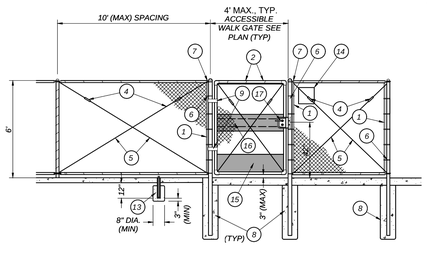
Drawing: P:\24\24-02\TS\Architectural\Drawings\240237_DTS1.dwg CX1.03-1 - ROT.ctb
Plot By: Scott Sep 24, 2025 - 1:20pm



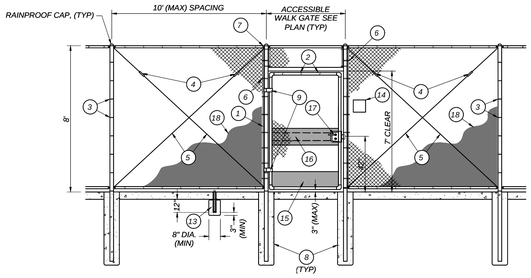
FENCE AND GATE ELEVATIONS



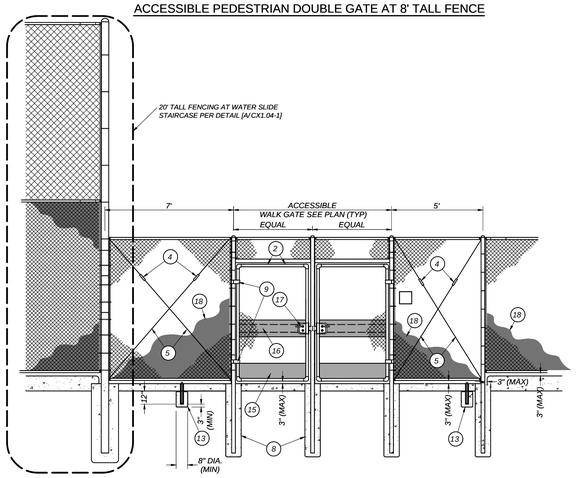
ACCESSIBLE PEDESTRIAN DOUBLE GATE AT 8' TALL FENCE



ACCESSIBLE PEDESTRIAN GATE AT 6' TALL FENCE



ACCESSIBLE PEDESTRIAN GATE AT 8' TALL FENCE



ACCESSIBLE PEDESTRIAN DOUBLE GATE WITH CURB OPENING

OPEN FABRIC FABRIC CHAIN LINK FENCE AND GATE LEGEND:

1. 1/8" X 3/4" GALVANIZED STEEL STRETCHER BAR.
2. 9 GAUGE (0.148" DIA) GALVANIZED STEEL TIE WIRES OR HOG RINGS AT 15" MAXIMUM SPACING. MINIMUM OF 8 TIE WIRES PER EACH 10' HORIZONTAL RAIL.
3. 6 GAUGE (0.192" DIA) GALVANIZED STEEL POST CLIPS AT 14" MAXIMUM SPACING. MINIMUM 3 POST CLIPS FOR EACH 4' POST.
4. GALVANIZED ADJUSTABLE TURNBUCKLE FOR 3/8" DIAMETER TRUSS ROD.
5. 3/8" DIAMETER GALVANIZED STEEL ADJUSTABLE TRUSS ROD. TRUSS RODS REQUIRED FOR ALL GATE POST PANELS, END OR CORNER POST PANELS.
6. 1/8" THICK GALVANIZED STEEL STRETCHER BAR TENSION BAND AT 12" MAXIMUM SPACING. MINIMUM OF 4 TENSION BANDS FOR EACH 4' POST SECTION.
7. GALVANIZED RAIL ENDS.
8. CONCRETE FOOTING, TYPICAL.
9. HINGES PER THE SPECIFICATION.
10. GALVANIZED STEEL PIPE SLEEVE FOR GATE DROP ROD.
11. LOCKABLE FORK LATCH PER SPECIFICATIONS
12. CENTER GATE DROP POST AND LATCH
13. INSTALL GATE HOLDBACK FOR ALL GATES.
14. ACCESSIBLE GATE SIGN PER DETAIL [D/CX1.02-1]
15. 10" HIGH, 1/8" THICK STEEL PLATES WELDED ON BOTH SIDES OF THE GATE AT BOTTOM FULL WIDTH OF THE GATE. THE KICK PLATE AND WELDS SHALL BE GALVANIZED FOR CORROSION RESISTANCE.
16. 12" HIGH, CENTER ON LATCH, 1/8" THICK STEEL PLATES WELDED ON THE NON FABRIC SIDE, THE FULL WIDTH OF THE GATE. THE PLATE AND WELDS SHALL BE GALVANIZED FOR CORROSION RESISTANCE. SEE DETAIL [B/CX1.03-1]
17. ALL WALK GATES SHALL HAVE ADA/ CBC COMPLIANT ACCESSIBLE HARDWARE WHEN LOCATED WITHIN ACCESSIBLE PATH OF TRAVEL. GATE LATCH SHALL REQUIRE A MAXIMUM OF 5 LBS OF PRESSURE TO OPERATE. PROVIDE GATE NIGHT LATCH AND HARDWARE PER SPECIFICATIONS AT EGRESS GATES. SEE NOTE 11.
18. INSTALL PRIVACY SCREEN PER SPECIFICATION 32 31 13 CHAIN LINK FENCING WHERE APPLICABLE. SEE SITE PLAN FOR BLOCKAGE PERCENTAGE AND LOCATION

OPEN FABRIC FABRIC CHAIN LINK FENCE AND GATE NOTES:

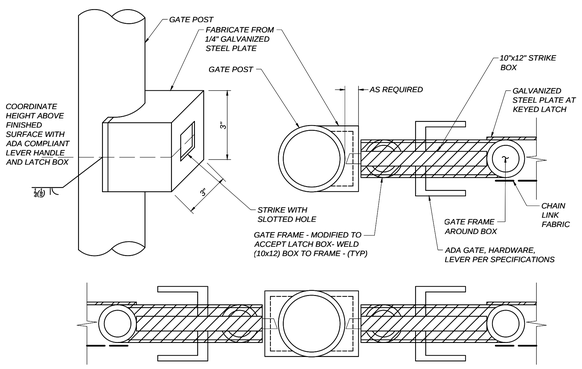
1. GATE FRAME SHALL BE 2" O.D. GALVANIZED STEEL (2.72 LB/FT).
2. FOR POOL PERIMETER FENCING, THE FENCE FABRIC SHALL BE 1" X 1" X 9 GAUGE GALVANIZED FABRIC. FOR ALL OTHER FENCING, THE FENCE FABRIC SHALL BE 2" X 2" MESH X 9 GAUGE GALVANIZED FABRIC. ALL FENCE FABRIC SHALL HAVE A KNUCKLED TOP AND BOTTOM SELVAGE. FENCE FABRIC TO BE GALVANIZED BEFORE WEAVING, 1.2 OZ TYPE II CLASS.
3. ALL FENCES ADJACENT TO ATHLETIC FIELDS, COURTS, BALLFIELDS, RUNNING TRACKS, OR AQUATIC AREAS SHALL HAVE 1.66" O.D. BOTTOM RAILS INSTEAD OF TENSION WIRE
4. MATCH OWNER'S LOCKSET GATE HARDWARE AND KEYING SYSTEM FOR ALL KEYED GATES.
5. WALK GATE POST SIZE LIMITED TO 6 FOOT WIDTH OR LESS. SEE DRIVE GATE SIZING FOR LARGER LEAF WIDTHS.
6. DOUBLE TRUSS RODS ARE REQUIRED IN PANELS ADJACENT TO GATE POSTS AND AT ALL FENCE CORNERS AND END PANELS.
7. ALL GATE CORNERS AND SUPPORT POINTS SHALL BE FASTENED TOGETHER AND REINFORCED WITH MALLEABLE IRON FITTINGS DESIGNED FOR THAT PURPOSE. WELDED CONNECTIONS WILL NOT BE ALLOWED.
8. TACK WELD ALL GATE HINGES AND LATCH COLLARS TO POST.
9. ALL AREAS AFFECTED BY WELDING, TRIMMED ENDS OF BOLTS, STRETCHER BARS, TRUSS RODS OR ANY EXPOSED STEEL SHALL BE PAINTED (GALVANIZED) PER CONTRACT SPECIFICATIONS.
10. CONTRACTOR TO PROVIDE AND INSTALL GATE HOLDBACK FOR EACH GATE. HOLDBACK TO BE INSTALLED IN FENCE MOWSTRIP UNLESS OTHERWISE NOTED.
11. ALL ACCESSIBLE GATES SHALL HAVE:
    a. HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERABLE PARTS ON DOORS AND GATES SHALL COMPLY CBC SECTION 11B-404.2.7 OPERABLE PARTS OF SUCH HARDWARE SHALL BE 34 INCHES MINIMUM AND 44 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. THE MAXIMUM FORCED TO ACTIVATE OPERABLE PARTS SHALL BE 5LBS PER CBC 11B-309.4.
    b. SWINGING DOOR AND GATE SURFACES WITHIN 10 INCHES OF THE FINISH FLOOR OR GROUND MEASURED VERTICALLY SHALL HAVE A SMOOTH SURFACE ON BOTH SIDES EXTENDING THE FULL WIDTH OF THE DOOR OR GATE. PARTS CREATING HORIZONTAL OR VERTICAL JOINTS IN THESE SURFACES SHALL BE WITHIN 1/16 INCH OF THE SAME PLANE AS THE OTHER AND BE FREE OF SHARP OR ABRASIVE EDGES. CAVITIES CREATED BY ADDED KICK PLATES SHALL BE CAPPED.
12. CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM PER CBC 11B-404.2.8.1.
13. GATE SPRING HINGES SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 70 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO THE CLOSED POSITION IS 1.5 SECONDS MINIMUM PER CBC 11B-404.2.8.2.
14. ACCESSIBLE GATE SHALL HAVE A MINIMUM CLEAR OPENING OF 32 INCHES AND A MAXIMUM CLEAR OPENING OF 48 INCHES PER CBC 11B-404.2.3
15. THE MAXIMUM FORCE TO PUSH OR PULL OPEN A GATE SHALL BE 5 LBS. (11B-404.2.9)

CHAIN LINK FENCE SIZING SCHEDULE - OPEN FABRIC FABRIC

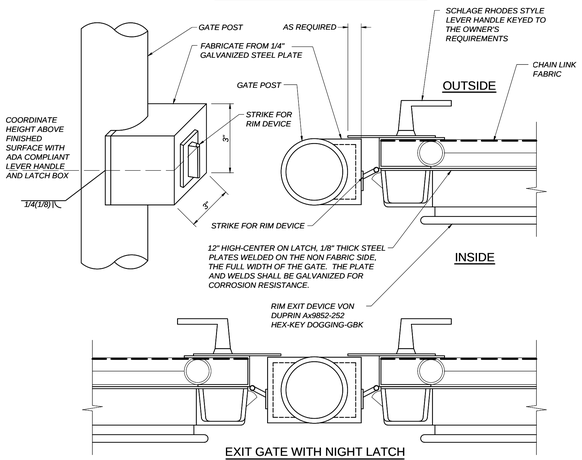
FENCE HEIGHT	END, ANGLE, CORNER POSTS			LINE POSTS			SINGLE LEAF MAN GATE POSTS			DOUBLE GATE POSTS			FENCE FABRIC	COMMENT
	POST DIAMETER	FOOTING DIAMETER	FOOTING DEPTH	POST DIAMETER	FOOTING DIAMETER	FOOTING DEPTH	POST DIAMETER	FOOTING DIAMETER	FOOTING DEPTH	POST DIAMETER	FOOTING DIAMETER	FOOTING DEPTH	MESH DIMENSION	
6'	2-7/8" O.D.	12"	4'-0"	2-3/8" O.D.	12"	3'-3"	2-7/8" O.D.	12"	4'-0"	6" O.D.	15"	5'-0"	2" X 2"	1.66" O.D. TOP AND BOTTOM RAIL, SCHEDULE 40
8'	4-1/2" O.D.	SEE STRUCUTRAL PLANS FOR DETAILS [2S/S4.01-1] AND [3S/S4.01-1]		4" O.D.	SEE STRUCUTRAL PLANS FOR DETAILS [2S/S4.01-1] AND [3S/S4.01-1]		4-1/2" O.D.	SEE STRUCUTRAL PLANS FOR DETAILS [2S/S4.01-1] AND [3S/S4.01-1]		6" O.D.	SEE STRUCUTRAL PLANS FOR DETAILS [2S/S4.01-1] AND [3S/S4.01-1]		1" X 1"	

A CX1.03-1 CHAIN LINK FENCE AND GATES

NOT TO SCALE



GATE LATCH PASSAGE NON-KEYED



EXIT GATE WITH NIGHT LATCH

B CX1.03-1 ACCESSIBLE LATCH

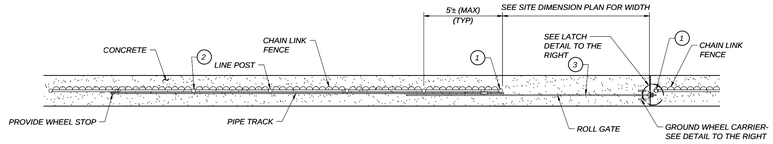
NOT TO SCALE

FENCE AND ROLL GATE ITEMS:

1. 2-7/8" O.D. GALVANIZED STEEL POST (5.79 lbs/ft)
2. 2-3/8" O.D. GALVANIZED STEEL LINE POST (3.65 lbs/ft)
3. 2" O.D. GALVANIZED STEEL GATE FRAME (2.72 lbs/ft)
4. 1-5/8" O.D. GALVANIZED STEEL BOTTOM TENSION WIRE (1.66 lbs/ft)
5. 2" X 2" MESH X 9 GAUGE GALVANIZED FENCE FABRIC WITH KNUCKLED TOP AND BOTTOM SELVAGE. GALVANIZE BEFORE WEAVING, (GBW)
6. 1/4" X 3/4" GALVANIZED STEEL STRETCHER BAR
7. 9 GAUGE (0.148" DIA.) GALVANIZED STEEL TIE WIRES OR HOG RIINGS AT 15" MAXIMUM SPACING
8. 9 GAUGE (0.192" DIA.) GALVANIZED STEEL POST CLIPS AT 14" MAXIMUM SPACING
9. 6" TURNBUCKLE ADJUSTERS FOR 3/8" DIA. TRUSS RODS
10. 3/8" DIA. GALVANIZED STEEL ADJUSTABLE TRUSS RODS

NOTES ON FENCING AND GATES:

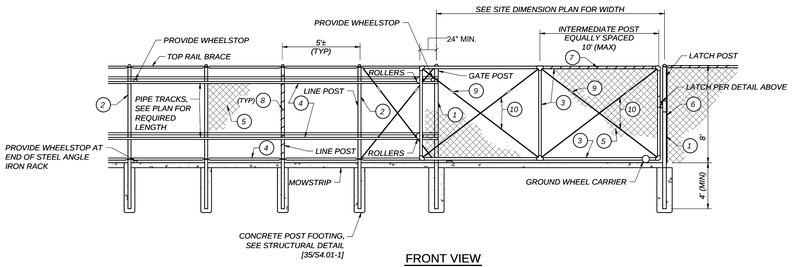
1. DOUBLE TRUSS RODS ARE REQUIRED IN PANEL ADJACENT TO OPENING, GATE POSTS, AT ALL FENCE CORNERS AND IN ALL GATE PANELS.
2. CONTRACTOR TO PROVIDE AND INSTALL GATE HOLDBACK FOR EACH GATE. HOLDBACK TO BE INSTALLED IN FENCE MOWSTRIP UNLESS OTHERWISE NOTED.
3. MOWSTRIP AT DRIVE GATE OPENING SHALL BE 5-1/2" THICK.
4. USE FITTINGS FOR ALL GATE JOINTS AND TRUSS ROD CONNECTIONS. NO WELDING PERMITTED.
5. LENGTH OF ROLL GATE SHALL MATCH THE GATE OPENING SHOWN ON THE SITE PLAN



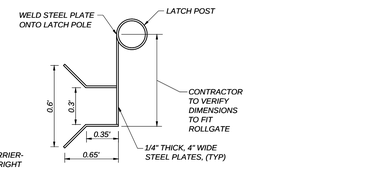
NOTE:

ROLL GATE ORIENTATION SHOWN IN THE DETAIL BELOW MAY NOT APPLY TO THE GATE INSTALLATION SHOWN ON THE SITE PLAN. SEE SITE PLAN FOR ROLL GATE ORIENTATION AND OPENING DIRECTION

PLAN VIEW

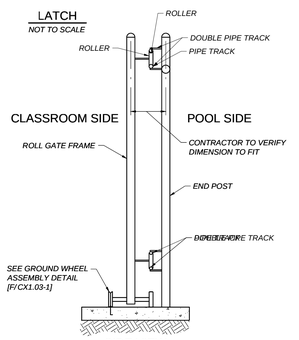


FRONT VIEW



LATCH

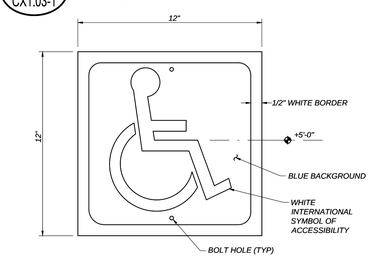
NOT TO SCALE



SIDE VIEW

C CX1.03-1 ROLL GATE INSTALLATION

NOT TO SCALE

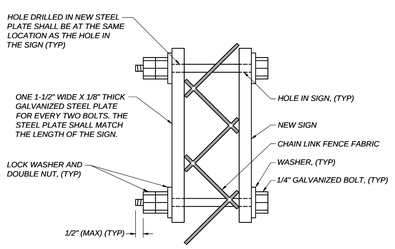


NOTES:

1. SIGN BY "STOP SIGNS AND MORE", MODEL SKU:PAR-1124 WITH WEATHER AND GRAFFITI PROTECTION OR APPROVED EQUAL.
2. BACKING PLATE 12"x12"x16 GAUGE METAL PLATE, SANDWICH CHAIN LINK FABRIC BETWEEN SIGN AND BACKING PLATE. FASTEN TOGETHER WITH TAMPER RESISTANT THRU BOLTS SIMILAR TO DETAIL [E/CX1.03-1].

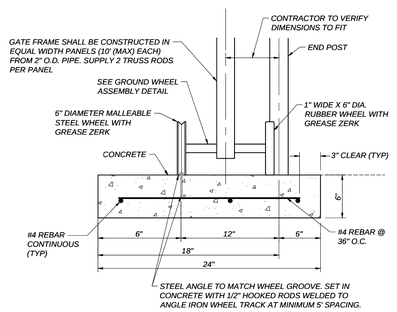
D CX1.03-1 ENTRY ACCESSIBILITY SIGN

NOT TO SCALE



E CX1.03-1 SIGN MOUNTING DETAIL

NOT TO SCALE



F CX1.03-1 ROLLGATE GROUND WHEEL CARRIER ASSEMBLY

NOT TO SCALE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123309 INC: 1
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SS ☑ FLS ☑ ACS ☑
DATE: 9/30/2025

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REVISIONS

REV #	REV DATE	REV DESCRIPTION

SEAL

REGISTERED PROFESSIONAL ENGINEER — LANE R. BARTLETT — 47,703 — CIVIL — STATE OF CALIFORNIA
8/6/2025
Date Signed:

PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

DETAILS

PHASE DESCRIPTION
100% CD - DSA SUBMITTAL INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: SD
PROJECT MANAGER: LB
JOB NUMBER: 791

SHEET NUMBER
CX1.03-1

Blair, Church & Flynn
CONSULTING ENGINEERS
401 Clovis Avenue, Suite 200
Clovis, California 93612
Tel (559) 326-1400
Fax (559) 326-1500

Drawing: P:\22\K24.0371\Set\Production\Drawings\K24207_07001.dwg, CX1.03-1, BCP-EB
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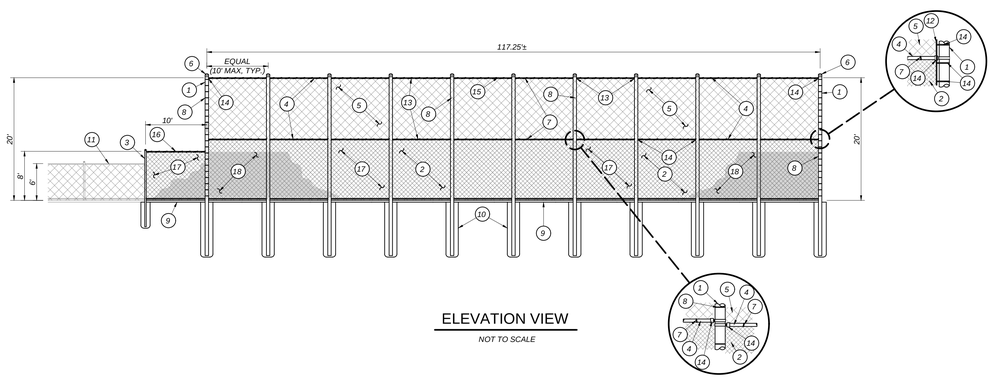
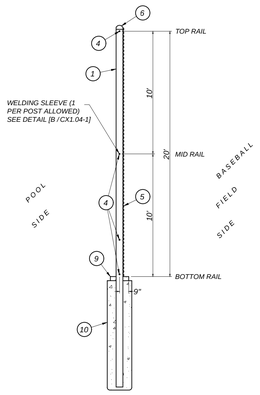


ELEVATION VIEW

NOT TO SCALE



SECTION C-C

NOT TO SCALE

LEGEND:

FENCING ITEMS TO BE FURNISHED AND INSTALLED:

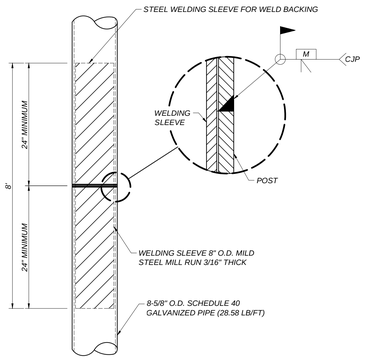
1. *8-5/8" O.D. GALVANIZED STEEL POST (28.58 LB/FT).*
2. *1" MESH X 9 GAUGE GALVANIZED FABRIC WITH KNUCKLED TOP AND BOTTOM SELVAGE. FABRIC TO BE GALVANIZED BEFORE WEAVING (GBW).*
3. *8' FENCING POST PER DETAIL [A/CX1.03-1].*
4. *1-5/8" O.D. GALVANIZED HORIZONTAL RAIL (2.27 LB/FT).*
5. *2" MESH X 9 GAUGE GALVANIZED FABRIC WITH KNUCKLED TOP AND BOTTOM SELVAGE. FABRIC TO BE GALVANIZED BEFORE WEAVING (GBW).*
6. *RAIN-PROOF POST CAP.*
7. *9 GAUGE (0.148" DIAMETER) GALVANIZED STEEL TIE WIRES AT 14" MAXIMUM SPACING (MINIMUM OF 9 TIES BETWEEN 10' SPACED POST).*
8. *9 GAUGE (0.148" DIAMETER) GALVANIZED STEEL POST CLIPS AT 14" MAXIMUM SPACING (MINIMUM OF 7 CLIPS PER EACH 8' POST SECTIONS, 9 CLIPS FOR 10')*
9. *CONCRETE MOWSTRIP, SEE DETAIL ON SHEET CX1.01.*
10. *CONCRETE POST FOOTING. POUR AGAINST UNDISTURBED SOIL, SEE STRUCTURAL DETAILS [2S/S4.01-1] AND [3S/S4.01-1].*
11. *EXISTING FENCING.*
12. *1/4" X 3/4" GALVANIZED STEEL STRETCHER BAR.*
13. *GALVANIZED STRETCHER BAR BANDS AT 12" MAXIMUM SPACING (MINIMUM OF 7 BANDS PER EACH 8' POST SECTIONS, 9 BANDS FOR 10', 28 BANDS FOR 30' POST SECTIONS).*
14. *GALVANIZED RAIL END.*
15. *20' HIGH CHAIN LINK FENCE (2-10' HIGH PANELS).*
16. *8' HIGH CHAIN LINK FENCE (1-8' HIGH PANEL) PER DETAIL [A/CX1.03-1].*
17. *1" MESH X 9 GAUGE GALVANIZED FABRIC WITH KNUCKLED TOP AND BOTTOM SELVAGE. FABRIC TO BE GALVANIZED BEFORE WEAVING (GBW)*
18. *INSTALL PRIVACY SCREEN WITH TOP AND CENTER BINDING STRIP PER SPECIFICATION 32 31 13 CHAIN LINK FENCING, SEE SITE PLAN FOR BLOCKAGE PERCENTAGE*

NOTES:

1. *20 FT. HIGH FENCE SHALL BE CONSTRUCTED WITH MINIMUM 29 FT. LONG GALVANIZED STEEL POST WITH WELDING SLEEVE INSERT. ONE SLEEVE PER POST ALLOWED. SEE DETAIL [B/CX1.04-1 FOR WELD SLEEVE DETAIL. (POST MAY BE IN ONE PIECE.)*
2. *ALL SCREWS, NUTS, AND WASHERS SHALL BE GALVANIZED STEEL.*
3. *ALL DAMAGED GALVANIZED SURFACES AND WELDED AREAS SHALL BE CLEANED AND PAINTED WITH A MINIMUM OF TWO (2) COATS OF ZINC OXIDE PER THE REQUIREMENTS OF FEDERAL SPECIFICATION MIL-P-15145 AND TWO ALUMINUM COLOR COATS.*
4. *FACE OF ALL BACKSTOPS POSTS ARE TO ALIGN WITH THE FACE OF 6-5/8" O.D. POSTS. THE CENTER OF 6-5/8" O.D. POST TO BE 9" FROM EDGE OF CONCRETE.*
5. *ALL EXPOSED EDGES OF GALVANIZED ANGLE IRON SHALL BE ROUNDED SMOOTH OR GROUND SMOOTH.*
6. *ALL CONCRETE SHALL BE CALTRANS CLASS II UNLESS NOTED OTHERWISE IN THE PLANS OR SPECIFICATIONS.*
7. *ALL CONCRETE TO BE IN CONFORMANCE TO SECTION 90 OF STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) STANDARD SPECIFICATIONS, LATEST EDITION.*
8. *AFTER INSTALLATION, CUT END OF SCREWS SO THAT MAXIMUM EXTRUSION BEYOND NUT IS NO MORE THAN 1/4".*
9. *TACK WELD ALL NUTS ONTO BOLTS BELOW 8' IN HEIGHT.*

A CX1.04-1 FENCE AT BALLFIELD

NOT TO SCALE



B CX1.04-1 WELDING SLEEVE

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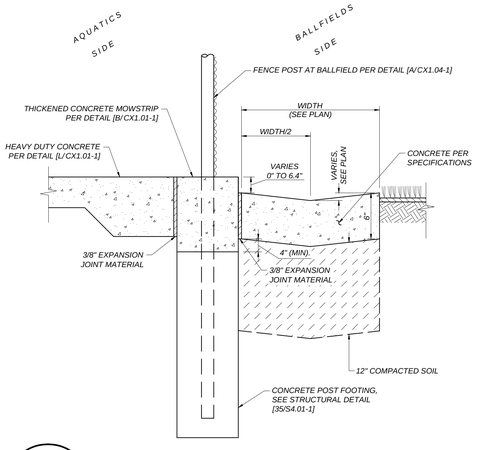

C CX1.04-1 GRADE DIFFERENTIAL AT BALLFIELD FENCE

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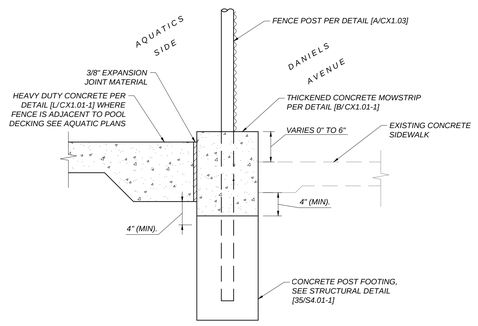

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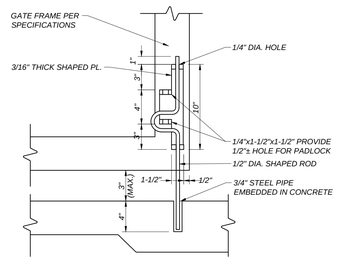

E CX1.04-1 DROP ROD

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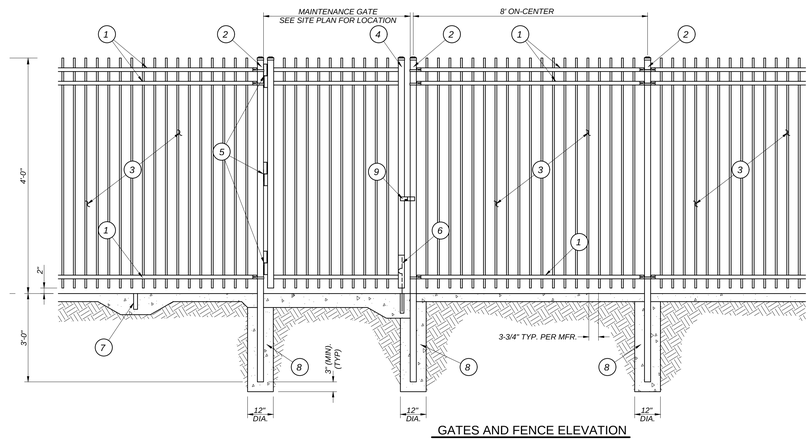


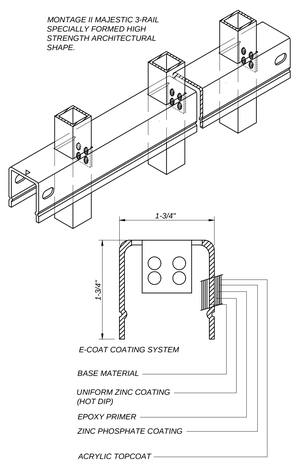
GATES AND FENCE ELEVATION

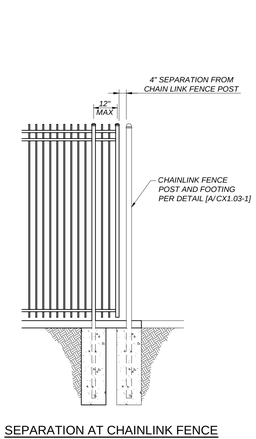
DECORATIVE METAL FENCE AND GATE LEGEND:

1. *1-3/4"W x 1-3/4"H x 12GA. HORIZONTAL RAILING FENCE PER THE MANUFACTURER*
2. *12GA. TUBE STEEL POST PER MANUFACTURER; LINE POSTS AND GATE POSTS SIZED PER THE MANUFACTURER*
3. *1" SQ. x 14GA. STEEL PICKETS PER MANUFACTURER*
4. *METAL GATE FRAME PER MANUFACTURER*
5. *HINGES PER THE SPECIFICATIONS*
6. *DROP ROD DETAIL, SEE DETAIL [E/CX1.04-1]*
7. *INSTALL GATE HOLDBACK FOR ALL GATES, SEE DETAIL [E/CX1.04-1]*
8. *CONCRETE FOOTING, TYPICAL.*
16. *ALL MAINTENANCE GATES SHALL HAVE LOCKABLE GATE LATCH.*

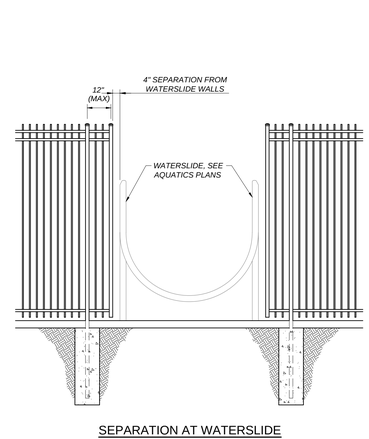
FENCE AND GATE NOTES:

1. *FENCE TO BE AMERISTAR MONTAGE II MAJESTIC 3-RAIL OR APPROVED EQUAL. CONTRACTOR TO COORDINATE PLACEMENT OF STEEL POSTS FOR FENCING WHICH OCCURS ADJACENT TO BUILDINGS, COLUMNS OR BLOCK WALLS PLACING CONCRETE. VERIFY CLEAR OPENINGS IN FIELD PRIOR TO CONSTRUCTION.*
2. *FENCE PANEL SYSTEM SHALL BE INDUSTRIAL GRADE.*
3. *MOWSTRIP THICKNESS AT GATE OPENINGS TO BE 6" THICK.*
4. *CONTRACTOR TO PROVIDE AND INSTALL GATE HOLDBACK FOR EACH GATE. HOLDBACK TO BE INSTALLED IN FENCE MOWSTRIP UNLESS OTHERWISE NOTED.*





SEPARATION AT CHAINLINK FENCE



SEPARATION AT WATERSLIDE

F CX1.04-1 FENCE AT WATERSLIDE

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ARCHITECTURE | DESIGN
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REVISIONS

REV #	REV DATE	REV DESCRIPTION

SEAL

REGISTERED PROFESSIONAL ENGINEER — LANE R. BAILEY — No. 47,993 — STATE OF CALIFORNIA

8/6/2025
Date Signed:

PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

DETAILS

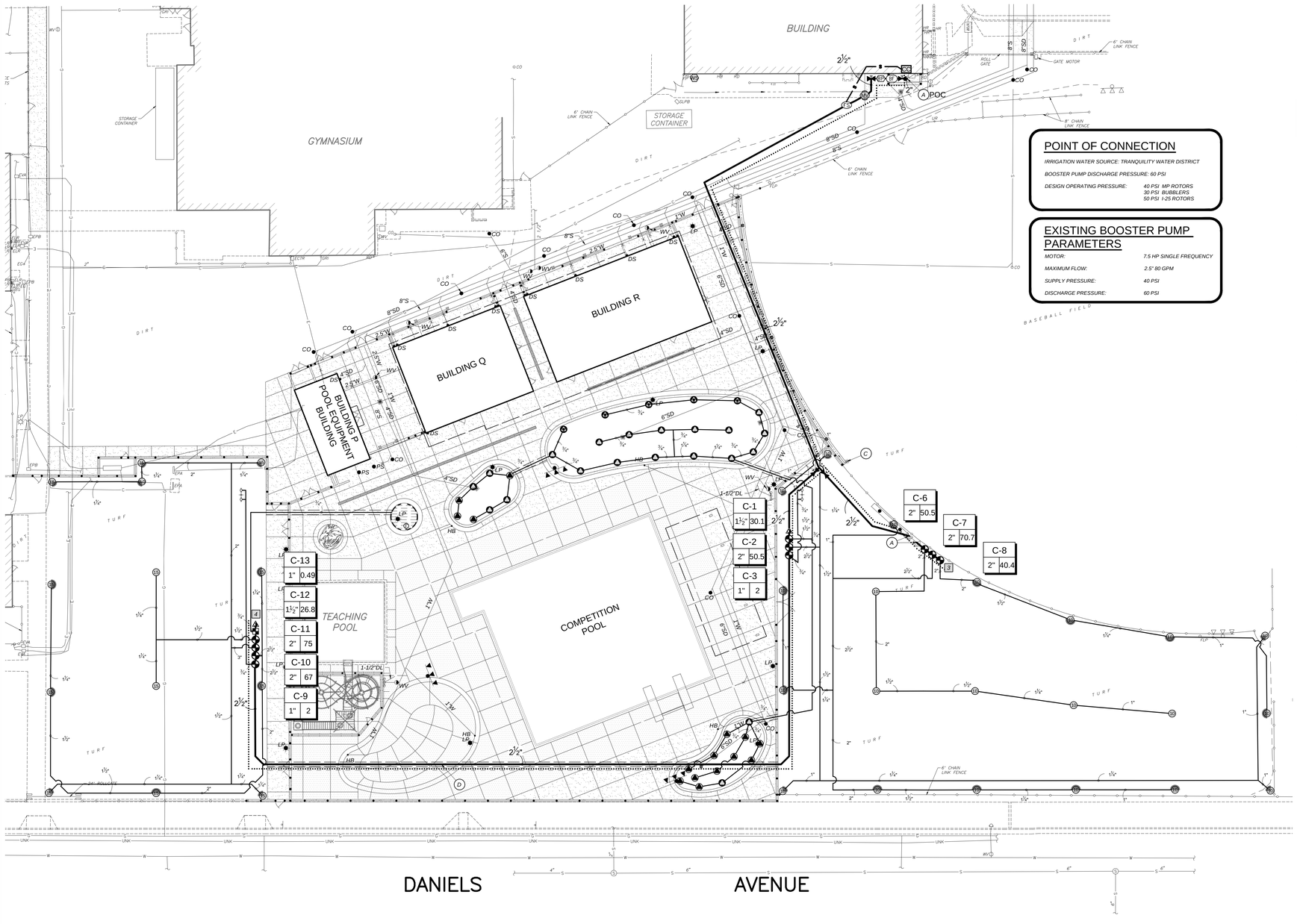
PHASE DESCRIPTION
100% CD - DSA SUBMITTAL
INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: SD
PROJECT MANAGER: LB
JOB NUMBER: 791

SHEET NUMBER
CX1.04-1

Blair, Church & Flynn
CONSULTING ENGINEERS
451 Clovis Avenue, Suite 200
Clovis, California 93612
Tel (559) 326-1400
Fax (559) 326-1500

Drawing: P:\24224-02\TS\set\Production\Drawings\224237_DTS1.dwg CX1.04-1 - ROT.dlt
Plot By: SJuhl Mar 28, 2025 - 1:22pm



POINT OF CONNECTION

IRRIGATION WATER SOURCE: TRANQUILITY WATER DISTRICT

BOOSTER PUMP DISCHARGE PRESSURE: 60 PSI

DESIGN OPERATING PRESSURE: 40 PSI MP ROTORS; 30 PSI BUBBLERS; 50 PSI I-25 ROTORS

EXISTING BOOSTER PUMP PARAMETERS

MOTOR:	*7.5 HP SINGLE FREQUENCY*
MAXIMUM FLOW:	*2.5" 80 GPM*
SUPPLY PRESSURE:	*40 PSI*
DISCHARGE PRESSURE:	*60 PSI*

IRRIGATION LEGEND:

SYMBOL	MANUFACTURER/MODEL	ARC	PSI	GPM	RADIUS	DETAIL
	HUNTER MP1000 PROS-04-PRS40-CV L	*210-270*	*40*	*0.41*	*14'*	*L/LS1.02-1*
	HUNTER MP1000 PROS-04-PRS40-CV M	*90-210*	*40*	*0.41*	*14'*	*L/LS1.02-1*
	HUNTER MP1000 PROS-04-PRS40-CV O	*360*	*40*	*0.84*	*14'*	*L/LS1.02-1*
	HUNTER MP2000 PROS-04-PRS40-CV K	*90-210*	*40*	*≤ 0.41*	*19'*	*L/LS1.02-1*
	HUNTER MP2000 PROS-04-PRS40-CV R	*360*	*40*	*1.48*	*19'*	*L/LS1.02-1*
	HUNTER MP3000 PROS-04-PRS40-CV B	*90-210*	*40*	*≤ 0.45*	*30'*	*L/LS1.02-1*
	TREE BUBBLER 1404	*360*	*30*	*1*	*3'*	*M/LS1.02-1*

SYMBOL	MANUFACTURER/MODEL	PSI	GPM	RADIUS	DETAIL
8.0	*HUNTER I-20-04-PRB 8.0*	*45*	*8*	*44'*	*K/LS1.02-1*
10	*HUNTER I-25-04 10*	*50*	*10.1*	*51'*	*K/LS1.02-1*
15	*HUNTER I-25-04 15*	*50*	*13.4*	*56'*	*K/LS1.02-1*

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL
	DRIP CONTROL VALVE *HUNTER ICZ-101-25-LF*	*E/LS1.03-1*
	FLUSH VALVE *TORO T-FCH-H-FIPT FLUSH VALVE. INSTALL IN VALVE BOX.*	*I/LS1.03-1*
	AREA TO RECEIVE DRIPLINE *NETAFIM TLCV-06-18* *TECHLINE PRESSURE COMPENSATING LANDSCAPE DRIPLINE WITH CHECK VALVE. 0.6 GPH EMITTERS AT 18" O.C. DRIPLINE LATERALS SPACED AT 18" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. 17MM.*	*G/LS1.03-1*

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL
	REMOTE CONTROL VALVE *HUNTER ICV-G*	*H/LS1.02-1*
	QUICK COUPLER VALVE *HUNTER HQ-44LRC*	*I/LS1.02-1*
	GATE VALVE *NIBCO P-619-RW-SON CAST IRON RESILIENT WEDGE GATE VALVE W/ 2" OPERATING NUT. SIZE EQUAL TO MAIN LINE.*	*F/LS1.02-1*
MV	*MASTER VALVE 2"* *SUPERIOR 3200, NORMALLY CLOSED, BELOW-GRADE*	*A/LS1.03-1*
BF	*BACKFLOW PREVENTION DEVICE 2"* *FEBCO 765, 2" PRESSURE VACUUM BREAKER*	*P/LS1.02-1*
CC	*REPLACE IRRIGATION CONTROLLER* *HUNTER I2C-2400-M. REPLACE EXISTING IRRIGATION CONTROLLER, RECONNECT VALVE STATIONS TO CORRESPONDING VALVE NUMBERS. 7 OUT OF 24*	*J/LS1.02-1*
WS	*WEATHER SENSOR* *HUNTER WIRELESS SOLAR SYNC*	*O/LS1.02-1*
FS	*FLOW SENSOR* *INSTALL BELOW-GRADE*	*C/LS1.03-1*
BP	*EXISTING BOOSTER PUMP* *RELOCATED AND SECURE TO NEW CONCRETE PAD (18" X 18" X 6") EXTEND ELECTRICAL POWER AS NEEDED*	
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40 SOLVENT WELD, SIZE AS NOTED	*C/LS1.02-1*
	IRRIGATION MAINLINE: PVC SCHEDULE 40 SOLVENT WELD, SIZE AS NOTED	*A/LS1.02-1*
	IRRIGATION MAINLINE: PVC SCHEDULE 40 GALVANIZED STEEL PIPE	*A/LS1.02-1*
	PIPE SLEEVE: PVC SCHEDULE 40 TWICE PIPE SIZE	*D/LS1.02-1*
	CONTROL WIRE SLEEVE	*D/LS1.02-1*
	CONTROL WIRE PLUS ONE (1) COMMON WIRE	*E/LS1.02-1*
	SENSOR CABLE IN CONDUIT	*E/LS1.02-1*
#	*VALVE NUMBER*	
#" #	*VALVE FLOW (GPM)* *VALVE SIZE*	
#	*NUMBER OF SPARE CONTROL WIRE PLUS ONE (1) SPARE COMMON WIRE. PROVIDE A 10 FOOT LOOP IN VALVE BOX*	
+	*PROPOSED TREE, SEE PLANTING PLAN ON SHEET L201 FOR VARIETY AND SIZE*	
A	*CONNECT NEW MAIN LINE TO EXISTING MAIN LINE*	
B	*CONNECT NEW LATERAL LINE TO EXISTING CONTROL VALVE*	
C	*PROTECT HEADS FOR NEW HARDSCAPE. ADJUST HEADS/NOZZLES FOR NEW IMPROVEMENTS. SEE GENERAL IRRIGATION NOTE #17 DISCONNECT IRRIGATION HEAD FROM INSIDE THE BASEBALL FIELD TO BE RECONNECTED WITH THE SYSTEM INFIELD.*	
D	*LOCATE MAIN LINE AND CONTROL WIRE SLEEVES AS CLOSE TO THE PERIMETER FENCE AS POSSIBLE TO PREVENT CONFLICT WITH POOL PLUMBING*	

IRRIGATION SYSTEM BID ALLOWANCE:

CONTRACTOR SHALL INCLUDE A BID ALLOWANCE IN THE AMOUNT OF $5,000 FOR THE REPLACEMENT OF EXISTING OR THE INSTALLATION OF NEW SPRINKLER HEADS, VALVES, PIPING AND OTHER EQUIPMENT AND ACCESSORIES NECESSARY FOR THE PROPER OPERATION OF THE EXISTING SYSTEM WHERE NOT SPECIFICALLY SHOWN ON THE DRAWINGS FOR REPLACEMENT OR NEW INSTALLATION.

WATER CONSERVATION COMPLIANCE STATEMENT:

I HAVE COMPLIED WITH THE CRITERIA OF THE LANDSCAPE WATER CONSERVATION ORDINANCE AND GUIDELINES, AND HAVE APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN.

DAVID W. BRILEY, RLA 2787

CONTRACTOR SPECIAL IRRIGATION NOTES:

1. *THE CONTRACTOR SHALL PERFORM AN OPERATIONAL ASSESSMENT OF THE EXISTING IRRIGATION SYSTEM WITHIN THE AREA OF WORK WITH THE OWNER'S REPRESENTATIVE PRIOR TO THE START OF CONSTRUCTION OPERATIONS.*
2. *THE CONTRACTOR SHALL ENSURE THAT ALL EXISTING PLANTING SCHEDULED TO REMAIN SHALL CONTINUE TO BE IRRIGATED THROUGHOUT THE COURSE OF CONSTRUCTION OPERATIONS. ANY DAMAGE TO THE EXISTING IRRIGATION SYSTEM THAT IMPACTS EXISTING PLANTING TO REMAIN SHALL BE IMMEDIATELY REPAIRED TO THE OWNER'S SATISFACTION.*
3. *PRIOR TO THE START OF ANY SHRUB, GROUND COVER, AND/OR TURFGRASS PLANTING, AN OPERATIONAL REVIEW OF THE IRRIGATION SYSTEM SHALL BE PERFORMED FOR PROPER COVERAGE AND SOIL MOISTURE DEPTH BY THE OWNER'S REPRESENTATIVE. ALL CORRECTIONS AND/OR ADJUSTMENTS SHALL BE COMPLETED AND VERIFIED BY THE OWNER'S REPRESENTATIVE BEFORE GROUND LEVEL PLANTING MAY COMMENCE.*
4. *THE ORIGINAL IRRIGATION SYSTEM OBSERVATION LOG SHALL BE MAINTAINED ON THE AS-BUILT RECORD DRAWING SET.*
5. *THE AS-BUILT RECORD DRAWING SET AND OTHER CLOSE-OUT ITEMS SHALL BE SUBMITTED AND ACCEPTED PRIOR TO THE SCHEDULING OF A FINAL ACCEPTANCE REVIEW.*
6. *UNLESS NOTED OTHERWISE, SALVAGE AND RETURN TO THE OWNER ALL IRRIGATION VALVES, HEADS AND OTHER EQUIPMENT COMPONENTS REMOVED AS PART OF THE WORK. SALVAGED COMPONENTS SHALL BE CLEAN AND IN WORKING CONDITION UNLESS NOTED AS NON-OPERATIONAL DURING THE OPERATIONAL ASSESSMENT.*

IRRIGATION SYSTEM OBSERVATION LOG

ITEM NO.	WORK ITEM DESCRIPTION	REVIEWED & ACCEPTED BY OWNER'S REPRESENTATIVE: PRINT NAME	SIGNATURE	DATE
IR-1	EXISTING SYSTEM OPERATION & PRESSURE CHECK			
IR-2	PIPING/WIRE SLEEVES UNDER PAVEMENT			
IR-3	MAIN LINE INSTALLATION & PRESSURE TEST			
IR-4	VALVE INSTALLATIONS			
IR-5	IRRIGATION COVERAGE PRIOR TO PLANTING			
IR-6	CONTROL EQUIPMENT INSTALLATION			
IR-7	BOOSTER PUMP INSTALLATION & START-UP (MANUF.)			
IR-8	FINAL SYSTEM OPERATION REVIEW			

NOTE: THE ORIGINAL VERSION OF THIS LOG SHALL BE MAINTAINED ON THE AS-BUILT RECORD DRAWING SET.
WORK ITEMS MAY NOT BE REVIEWED IF PRIOR WORK ITEMS HAVE NOT BEEN ACCEPTED.

SEE SHEET LS1.02 FOR IRRIGATION NOTES, DETAILS AND MWELO CALCS

SCALE: N 1"=20'

0 5 20 40
SCALE IN FEET

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

Blair, Church & Flynn CONSULTING ENGINEERS
451 Clovis Avenue, Suite 200
Clovis, California 93612
Tel (559) 326-1400
Fax (559) 326-1500

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123309 INC: 1
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 9/30/2025

AGD ARCHITECTURE | DESIGN
ANDREW GOODWIN DESIGNS
1238 MONTEREY STREET
SAN LUIS OBISPO, CA 93422
t: (805) 439-1611
www.andrewgoodwin.us

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REVISIONS

REV #	REV DATE	REV DESCRIPTION

SEAL

LANDSCAPE ARCHITECT DAVID W. BRILEY No. 2787 12/31/26 9/30/25 STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

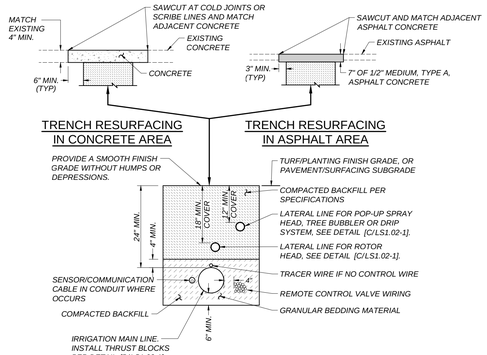
IRRIGATION PLAN

PHASE DESCRIPTION
100% CD - DSA SUBMITTAL
INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: DZ
PROJECT MANAGER: LB
JOB NUMBER: 791

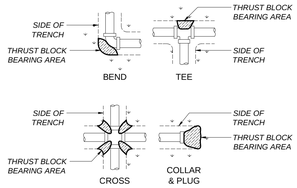
SHEET NUMBER
LS1.01-1

Drawing: P:\24\24-02\15dwr\Production\Drawings\224237_0001.dwg Irrigation Plan - IBCF.ctb
Plot By: JLott Mar 19, 2025 - 1:38pm



TYPICAL TRENCH SHOWN IN PLANTING AREA

A LS1.02-1 **IRRIGATION TRENCH BACKFILL**
NOT TO SCALE

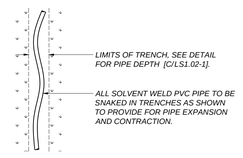


NOTE: CONCRETE PER SPECIFICATIONS. THRUST BLOCKS NOT REQUIRED WITH LESS THAN 2" MAIN LINE

TABLE OF BEARING AREAS REQUIRED (IN SQUARE FEET)

PIPE DIAMETER	* 4"	6"	8"	10"	12"
CROSS, TEE, 90° BEND, PLUG, FIRE HYDRANT	1	3	5	8	11
45° BEND	1	2	3	4	6
22-1/2° BEND	0.5	1	2	2	3
11-1/4° BEND	0	0	1	1	2
GATE VALVE (IN-LINE)	0	1	2.5	4	9

B LS1.02-1 **CONCRETE THRUST BLOCKS**
NOT TO SCALE

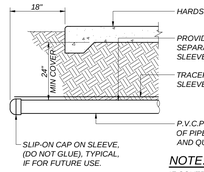


C LS1.02-1 **SOLVENT WELD PIPE**
NOT TO SCALE

CONDUIT/SLEEVE FOR CONTROL WIRE

CONDUIT/SLEEVE SIZE	QTY. 14 GA. WIRE
1"	8 OR LESS
1-1/4"	15
1-1/2"	20
2"	32
2-1/2"	45
3"	70
4"	120

NOTE: SLEEVE FOR PIPE IS 2X THE PIPE DIAMETER



NOTE:
IF CONTROL WIRES ARE ROUTED IN CONDUIT, SLEEVE FOR WIRES IS NOT REQUIRED

D LS1.02-1 **IRRIGATION SLEEVE/CONDUIT**
NOT TO SCALE

WATER EFFICIENT LANDSCAPE WORKSHEET
Educational - DSA PR 15-03

Project: Tranquility HS Pool
Location: 6052 Juanche Ave
ETo Reference (MWELO-Apdx. A): Tranquility

MAWA = MAXIMUM APPLIED WATER ALLOWANCE (1,000 GALLONS

TOTAL NEW BUILDING FOOTPRINT	4,930	SF	(1,600 sf is threshold for inclusion)
75% OF BLDG. SF REQ'D LANDSCAPE	3,698	SF	
EXIST. IRRIGATION REMOVED FROM SERVICE	31,353	SF	
REGULAR LANDSCAPE AREA	113	SF	(landscape area >500 sf)
SPECIAL LANDSCAPE AREA (SLA)	3,516	SF	
TOTAL PROPOSED LANDSCAPE AREA (LA)	3,629	SF	
TOTAL OVER (UNDER) REQUIRED AREA	31,285	SF	

NORMAL YEAR REFERENCE	ANNUAL	
EVAPOTRANSPIRATION (ETo)	51.4	
EFFECTIVE PRECIPITATION (25% OF ANNUAL)	0.0	
ADJUSTED EVAPOTRANSPIRATION	51.4	

MAWA=(ETo) x (0.62) [(0.65 x LA)+(0.35 x SLA)]	ANNUAL		2015 DWR/DSA Update
MAX. APPLIED WATER ALLOWANCE	**114.4**	K Gallons	
TOTAL IN ACRE/FT	0.4		
TOTAL IN CCF	152.9		

ETWU = ESTIMATED TOTAL WATER USE (1,000 GALLONS)

LANDSCAPE HYDROZONE TYPES					
MIXED PLANTING (L)	113	SF	0.3	0.81	0.37
MIXED PLANTING (M)	0	SF	0.5	0.81	0.62
WARM-SEASON TURFGRASS (MH)	0	SF	0.6	0.75	0.80
SLA - RECREATIONAL/RECYCED WATER USE	3,516	SF	0.6	0.75	0.80
				AVERAGE REGULAR ETAF:	0.37
				MAXIMUM AVERAGE REGULAR ETAF:	**0.65**
				AVERAGE SITEWIDE ETAF:	0.79

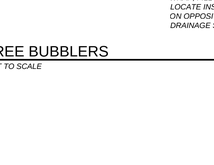
ETWU=(ETo) x (0.62)x [(HA x PF/IE) + SLA]	ANNUAL		typical IE coeficients	
MIXED PLANTING (L)	1.3		0.75	overhead sprinklers
MIXED PLANTING (M)	0.0		0.81	drip & bubblers
WARM-SEASON TURFGRASS (M)	0.0			
SLA - RECREATIONAL/RECYCED WATER USE	89.6			
ESTIMATED TOTAL WATER USE	**91.0**	K Gallons		
TOTAL IN ACRE/FT	0.3			
TOTAL IN CCF	121.6			

ETWU AS A PERCENT OF MAWA: 80%

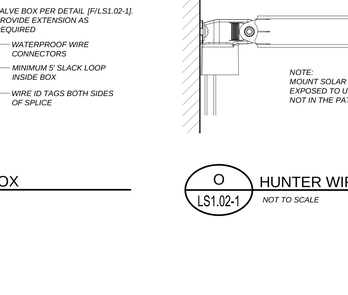
GENERAL IRRIGATION NOTES:

1. *ALL ITEMS IN THE LEGEND ARE TO BE FURNISHED AND INSTALLED, UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL FURNISH THE ARTICLES, EQUIPMENT, MATERIALS OR PROCESSES SPECIFIED BY NAME. NO SUBSTITUTION WILL BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL OF THE DESIGN ENGINEER. (ALL MATERIAL REQUIRED SHALL BE NEW AND OF THE BEST QUALITY AVAILABLE)*
2. *THE DESIGN ENGINEER RESERVES THE RIGHT TO REJECT ANY MATERIAL OR WORK WHICH DOES NOT CONFORM TO THE CONTRACT PLANS AND SPECIFICATIONS WITHOUT THE PRIOR WRITTEN APPROVAL OF THE DESIGN ENGINEER.*
3. *PRIOR TO STARTING WORK, THE CONTRACTOR SHALL VERIFY THE EXISTING SYSTEM COMPONENTS' LOCATION, SIZES AND ROUTING FOR BACKFLOW PREVENTERS, CONTROLLERS, MAIN AND LATERAL PIPING, VALVES, SPRINKLER HEADS AND CONTROL WIRE; AND SHALL CONFIRM THEIR OPERATIONAL STATUS IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL ALSO VERIFY THE AVAILABLE STATIC PRESSURE AT THE POINT-OF-CONNECTION. FAILURE TO NOTIFY THE OWNER'S REPRESENTATIVE BEFORE STARTING WORK OF ANY DEVIATION FROM THE INFORMATION SHOWN ON THE CONTRACT DOCUMENTS, OR NECESSARY REPAIRS TO THE EXISTING SYSTEM, SHALL MAKE THE CONTRACTOR RESPONSIBLE TO PROVIDE, AT HIS OWN EXPENSE, ANY CORRECTIVE WORK OR COMPONENTS NECESSARY FOR A FULLY FUNCTIONAL SYSTEM WITH FULL COVERAGE.*
4. *THE CONTRACTOR IS RESPONSIBLE TO PROTECT AND KEEP ANY EXISTING IRRIGATION SYSTEM SCHEDULED TO REMAIN OPERATIONAL AT ALL TIMES DURING THE COURSE OF THIS WORK. THE CONTRACTOR SHALL REPLACE ANY PLANTS DEAD OR DISTRESSED DUE TO THE INTERRUPTION OF EXISTING IRRIGATION SCHEDULES AND SHALL PERFORM ALL WORK NECESSARY TO MAINTAIN THE EXISTING SYSTEM'S OPERATIONAL.*
5. *THE CONTRACTOR IS RESPONSIBLE TO LOCATE AND PROTECT ALL EXISTING UTILITIES. UTILITIES SHOWN ARE FOR THE CONTRACTOR'S AWARENESS AND NO SURVEY HAS BEEN COMPLETE TO VERIFY THE ACCURACY OF THE UTILITIES SHOWN. IT IS THE CONTRACTORS RESPONSIBILITY TO REPAIR ANY DAMAGED UTILITIES CAUSED BY CONSTRUCTION ACTIVITIES.*
6. *THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY ALL DIMENSIONS SHOWN AND TO ADJUST SAID DIMENSIONS TO FIT SITE CONDITIONS AND ACTUAL EQUIPMENT INSTALLED.*
7. *THE CONTRACTOR SHALL NOT WILLFULLY INSTALL THE IRRIGATION FACILITIES AS INDICATED ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN OBSTRUCTIONS MIGHT NOT HAVE BEEN CONSIDERED IN THE DESIGN. SUCH OBSTRUCTIONS OR DIFFERENCES SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER.*
8. *THE IRRIGATION PLAN IS DIAGRAMMATIC. ALL PIPING, VALVES, AND HEADS SHALL BE LOCATED IN PLANTING AREAS WHENEVER POSSIBLE.*
9. *THE CONTRACTOR SHALL PROVIDE ADEQUATE SAFETY MEASURES TO WARN AND PROTECT THE PUBLIC, OTHER SITE CONTRACTORS AND HIS WORKERS FROM POSSIBLE INJURY DUE TO HIS CONSTRUCTION EQUIPMENT AND OPERATIONS.*
10. *DUE TO THE SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, ETC. WHICH MAY BE REQUIRED. THE CONTRACTOR SHALL CAREFULLY INVESTIGATE THE STRUCTURAL AND FINISHED CONDITIONS AFFECTING ALL HIS WORK, AND PLAN HIS WORK ACCORDINGLY, FURNISHING SUCH FITTINGS, ETC., AS MAY BE REQUIRED TO INSTALL THE PROPOSED FACILITIES AND ACCOMMODATE THE SITE CONDITIONS. DRAWINGS ARE GENERALLY DIAGRAMMATIC AND INDICATIVE OF THE WORK TO BE DONE TO PROVIDE A COMPLETE AND OPERATIONAL IRRIGATION SYSTEM. ALL WORK TO BE DONE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, LOCAL CODES AND ORDINANCES.*
11. *VALVES SHALL BE LOCATED IN SHRUB/GROUND COVER AREAS INSTEAD OF IN TURFGRASS AREAS WHENEVER POSSIBLE. VALVES IN ATHLETIC SPORTS FIELDS SHALL BE LOCATED OUTSIDE OF THE FIELD-OF-PLAY TO THE GREATEST EXTENT POSSIBLE.*
12. *THE CONTRACTOR SHALL REPLACE ANY EXISTING PLANTS SCHEDULED TO REMAIN (SEE LANDSCAPE PLANS) THAT ARE DAMAGED BY THIS WORK WITH NEW PLANTS OF THE SAME SPECIES/VARIETY AND SIZE AS THE ORIGINAL.*
13. *ANY EXISTING TURFGRASS REMOVED FOR THIS WORK SHALL BE REPLANTED IF VIABLE, OR NEW SOD OF THE SAME SPECIES/VARIETY INSTALLED. THE UPPER 6 INCHES OF THE COMPACTED TRENCH BACKFILL SHALL BE CONDITIONED PER LANDSCAPE SPECIFICATIONS PRIOR TO SOD INSTALLATION. THE NEW SOD SURFACE SHALL BE FLUSH TO THE ADJACENT TURFGRASS WITHOUT HUMPS OR DEPRESSIONS.*
14. *INSTALL SLEEVES UNDER ALL ASPHALT/CONCRETE IMPROVEMENTS. SLEEVES SHALL BE PVC SCH. 40 PVC OR SDR 35 AND TWICE THE DIAMETER OF THE PIPE UNLESS OTHERWISE NOTED. CONTROL WIRING SHALL BE SLEEVED IN 2" SCH 40 PVC UNLESS OTHERWISE NOTED. MINIMUM DEPTH OF SLEEVES UNDER ALL ASPHALT/CONCRETE IMPROVEMENTS IS 18" BELOW SUBGRADE OR 24" BELOW FINISHED GRADE, WHICHEVER IS GREATER.*
15. *CONTRACTOR SHALL SAWCUT TO EXISTING JOINTS. REMOVE AND REPLACE SURFACING (CONCRETE, ASPHALT) AS NECESSARY TO INSTALL THE IRRIGATION SYSTEM.*
16. *THE CONTRACTOR SHALL PROVIDE AND KEEP AN UP-TO-DATE "RECORD DRAWING" SHOWING ALL CHANGES TO THE ORIGINAL DRAWINGS AND EXACT LOCATIONS OF THE FACILITIES INSTALLED. BEFORE FINAL INSPECTION, THE CONTRACTOR SHALL FURNISH MARKED "RECORD DRAWINGS" TO THE INSPECTOR.*
17. *THE CONTRACTOR SHALL PROVIDE ADJUSTMENT OF NOZZLE ARC AND RADIUS, INCLUDING ANY ALTERNATE NOZZLE TYPES, NECESSARY TO PROVIDE COMPLETE COVERAGE, TO SUIT ACTUAL SITE CONDITIONS, AND TO MINIMIZE OVERSPRAY ONTO HARDSCAPE, PAVEMENT AND/OR STRUCTURES.*
18. *CONCRETE ANCHORS OR THRUST BLOCKS SHALL BE PROVIDED ON ALL MAIN LINE PIPING. THEY ARE TO BE LOCATED AT ALL ABRUPT CHANGES IN PIPELINE GRADE, CHANGES IN HORIZONTAL ALIGNMENT, REDUCTION IN PIPE SIZES, END OF LINE AND IN-LINE VALVES TO ABSORB ANY AXIAL THRUST OF THE PIPE. THE PIPE MANUFACTURER'S RECOMMENDATIONS FOR THRUST CONTROL SHALL BE FOLLOWED. THRUST BLOCKS MUST BE FORMED AGAINST UNDISTURBED EARTH.*
19. *ALL MAIN LINE AND LATERAL LINE PIPES UNDER PAVEMENT SHALL BE PRESSURE TESTED WITH THE VALVES INSTALLED. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT NEEDED. IF ANY LEAKS DEVELOP, THE REPAIRS ARE TO BE MADE AND THE TEST REPEATED UNTIL THE SYSTEM IS PROVEN WATERTIGHT. THE CONTRACTOR IS TO CENTER LOAD THE PIPE AND LEAVE ALL JOINTS EXPOSED FOR INSPECTION. THE PRESSURE TEST SHALL BE OBSERVED AND APPROVED BY THE OWNER'S REPRESENTATIVE. WHEN THE PIPE IS PROVEN WATERTIGHT AND ONLY THEN MAY THE LINE BE BACKFILLED.*
20. *WIRED CONNECTIONS BETWEEN THE CONTROLLER AND REMOTE CONTROL VALVES SHALL BE MADE WITH ONE CONTINUOUS DIRECT BURIAL WIRE RUN. A VALVE BOX MUST BE PROVIDED AT THE CONTRACTOR'S EXPENSE AT ALL UNDERGROUND SPLICES.*
21. *ONLY TEFLON TAPE OR AN APPROVED TEFLON PASTE MAY BE USED AS THE SEALING MATERIAL TO MAKE ALL THREADED CONNECTIONS. A MINIMUM OF TWO (2) WRAPS IN THE DIRECTION OF THE THREADS TO BE USED FOR TAPE. NO OTHER PIPE JOINT MATERIAL WILL BE ALLOWED WITHOUT THE WRITTEN AUTHORIZATION FROM THE DESIGN ENGINEER.*
22. *THE CONTRACTOR SHALL PROVIDE TWO (2) INDIVIDUALLY BOUND SETS OF OPERATION AND MAINTENANCE MANUALS. THE MANUAL SHALL CONTAIN THE FOLLOWING INFORMATION:*
    - *A. CONTRACTOR'S ADDRESS AND PHONE NUMBER.*
    - *B. DURATION OF GUARANTEE PERIOD (ONE YEAR AFTER FINAL ACCEPTANCE).*
    - *C. NAME'S, ADDRESSES AND PHONE NUMBERS OF LOCAL MANUFACTURER REPRESENTATIVES.*
    - *D. COMPLETE SET OF MANUFACTURER'S LITERATURE AND SPECIFICATIONS.*
    - *E. COMPLETE OPERATING AND MAINTENANCE INSTRUCTIONS ON ALL MAJOR EQUIPMENT.*
    - *F. ISSUE A "CERTIFICATE OF CONSTRUCTION COMPLIANCE" WHICH STATES THAT ALL WORK DONE AND MATERIALS AND EQUIPMENT USED ARE IN CONFORMANCE WITH THE APPROVED PLANS, SPECIFICATIONS AND ALL AUTHORIZED REVISIONS.*
    - *G. INITIAL ELECTRICAL DATA ON EACH VALVE:*
        - *(1) OHMMS READING FOR EACH VALVE TAKEN AT THE CONTROLLER.*
        - *(2) VOLTAGE READING FOR EACH VALVE TAKEN BOTH AT THE CONTROLLER AND AT THE VALVE.*
23. *THE CONTRACTOR SHALL PROVIDE TWO SETS OF CONTROLLER CHARTS. THE CHARTS TO BE A REDUCED DRAWING OF THE ACTUAL PLANS. THE CHARTS SHALL BE COLORED WITH A DIFFERENT COLOR FOR EACH IRRIGATION CIRCUIT. THE CHARTS SHALL BE COVERED IN A WATERTIGHT ENVELOPE.*
24. *IRRIGATION LINE TRENCHING AND PIPE INSTALLATION LOCATED WITHIN THE CANOPY DRIP LINE OF EXISTING TREES SHALL BE PERFORMED BY HAND OR BY AIR SPADE WITHOUT CUTTING OR DAMAGING EXISTING ROOTS GREATER THAN ONE INCH IN DIAMETER. SEE EXISTING LANDSCAPE PROTECTION SECTION FOR ADDITIONAL REQUIREMENTS.*
25. *REPLACE ALL DAMAGED EXISTING VALVE BOXES AND/OR LIDS WITHIN THE AREA OF WORK. ADJUST THE ELEVATION OF ALL EXISTING VALVE BOXES WITHIN THE AREA OF WORK TO FINISH GRADE AS NECESSARY TO COMPLY WITH THE VALVE BOX DETAIL.*

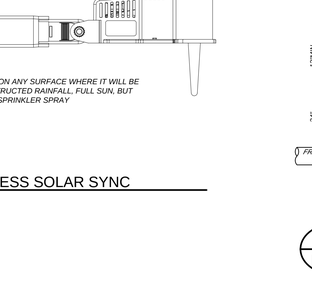
NOTES:
1. *WIRES UNDER PAVEMENT OR WALKS SHALL BE INSTALLED WITHIN A CONDUIT WHICH HAS BEEN PLACED BY BORING, JACKING OR DRILLING. CONDUIT TO BE PVC SCH 40 TYPE II PIPE. WIRES SHALL NOT BE TAPED TOGETHER INSIDE THE CONDUIT.*
2. *NO SPLICES ARE ALLOWED BETWEEN POINTS OF CONNECTIONS.*
3. *A VALVE BOX MUST BE PROVIDED AT ALL UNDERGROUND SPLICE CONNECTIONS.*
4. *HOT - RED*
   COMMON - WHITE
   SPARE HOT - BLACK
   SPARE COMMON - BLUE
   TRACER WIRE - GREEN



E LS1.02-1 **IRRIGATION WIRE**
NOT TO SCALE

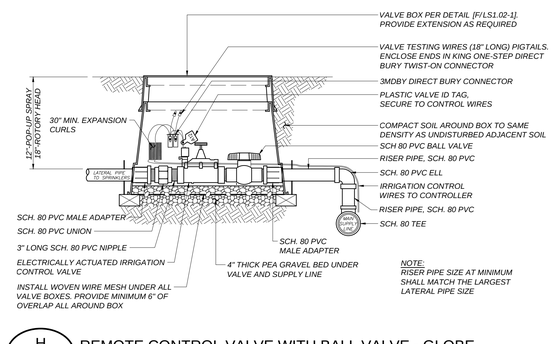


F LS1.02-1 **2" AND LARGER GATE VALVE**
NOT TO SCALE



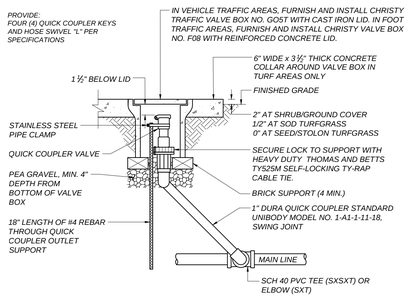
NOTE:
PROVIDE A TRAFFIC RATED CONCRETE BOX AND LID FOR ANY BOX LOCATED IN HARDSCAPE PAVEMENT AND SET FLUSH TO FINISHED SURFACE. PROVIDE A 6"X6" CONCRETE COLLAR AROUND THE BOX IF LOCATED IN ASPHALTIC CONCRETE.

G LS1.02-1 **IRRIGATION VALVE BOX**
NOT TO SCALE

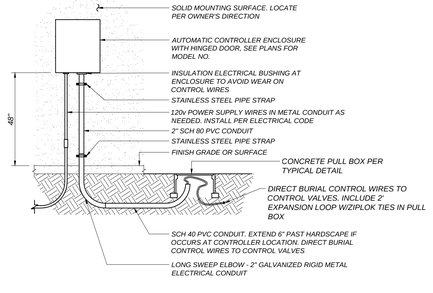


NOTE:
RISER PIPE SIZE AT MINIMUM SHALL MATCH THE LARGEST LATERAL PIPE SIZE

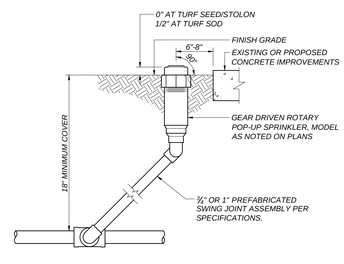
H LS1.02-1 **REMOTE CONTROL VALVE WITH BALL VALVE - GLOBE**
NOT TO SCALE



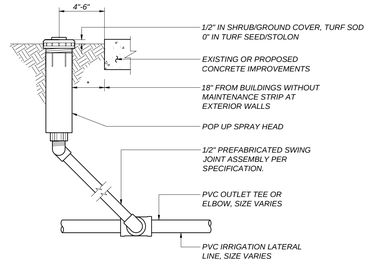
I LS1.02-1 **QUICK COUPLER VALVE**
NOT TO SCALE



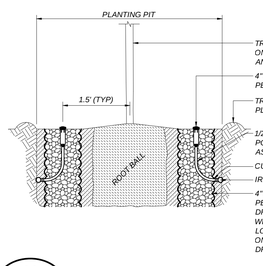
J LS1.02-1 **EXTERIOR WALL MOUNTED CONTROLLER**
NOT TO SCALE



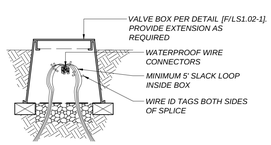
K LS1.02-1 **POP-UP ROTOR**
NOT TO SCALE



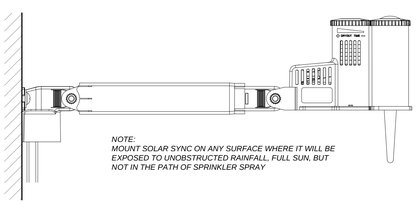
L LS1.02-1 **POP-UP SPRAY**
NOT TO SCALE



M LS1.02-1 **TREE BUBBLERS**
NOT TO SCALE

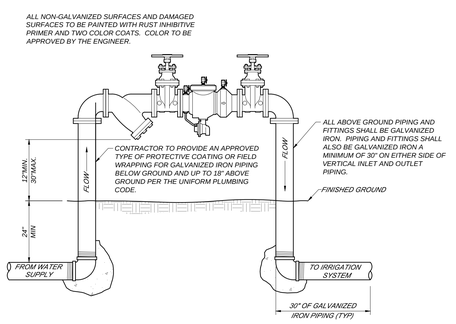


N LS1.02-1 **SPLICEBOX**
NOT TO SCALE



NOTE:
MOUNT SOLAR SYNC ON ANY SURFACE WHERE IT WILL BE EXPOSED TO UNOBSTRUCTED RAINFALL, FULL SUN, BUT NOT IN THE PATH OF SPRINKLER SPRAY

O LS1.02-1 **HUNTER WIRELESS SOLAR SYNC**
NOT TO SCALE



P LS1.02-1 **ZURN WILKINS 375 BACKFLOW PREVENTER**
NOT TO SCALE

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Clovis, California 93612
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REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 9/30/2025

AGD ARCHITECTURE | DESIGN
ANDREW GOODWIN DESIGNS
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REVISIONS

REV #	REV DATE	REV DESCRIPTION

SEAL

PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

IRRIGATION DETAILS

PHASE DESCRIPTION
100% CD - DSA SUBMITTAL
INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: DZ
PROJECT MANAGER: LB
JOB NUMBER: 791

SHEET NUMBER
LS1.02-1

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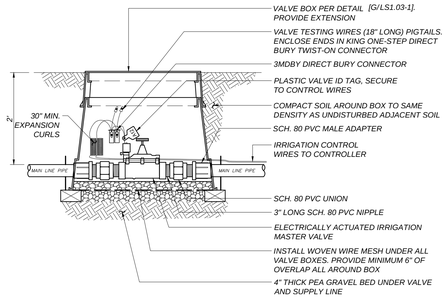

A LS1.03-1 MASTER VALVE
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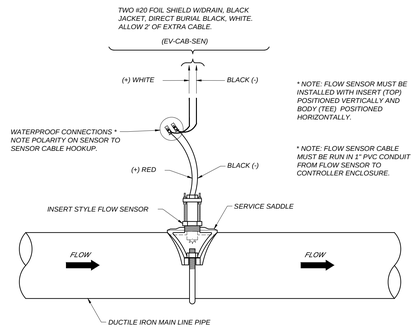

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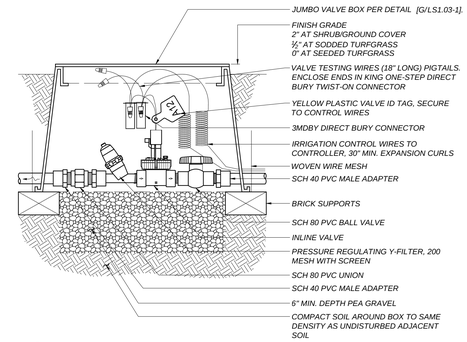

C LS1.03-1 DRIP ZONE ASSEMBLY
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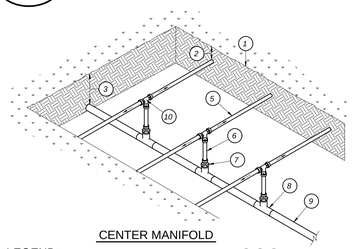
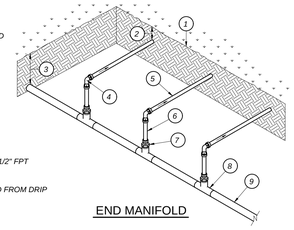


CENTER MANIFOLD

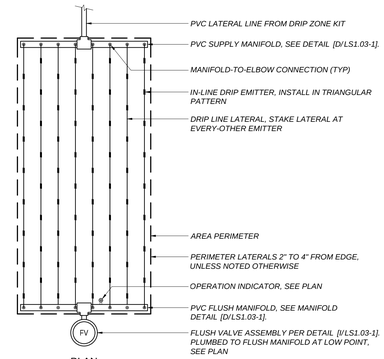
LEGEND:

1. FINISH GRADE
2. DEPTH OF TUBING BELOW FINISHED GRADE - SEE LEGEND
3. MIN. 12" DEPTH OF PVC SUPPLY / FLUSH MANIFOLD BELOW FINISHED GRADE
4. ELBOW
5. DRIPLINE LATERAL, SEE PLAN
6. POLY TUBING, LENGTH AS NECESSARY
7. MALE ADAPTER
8. SCH 40 PVC TEE (SxSxT) WITH 1/2" FPT OUTLET
9. SCH 40 PVC SUPPLY MANIFOLD FROM DRIP ZONE KIT
10. TEE



END MANIFOLD

D LS1.03-1 DRIPLINE MANIFOLD
NOT TO SCALE



PLAN

E LS1.03-1 DRIPLINE LAYOUT SCHEMATIC
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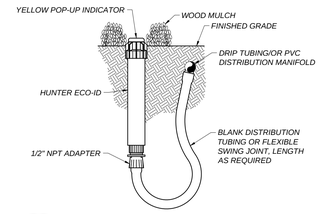
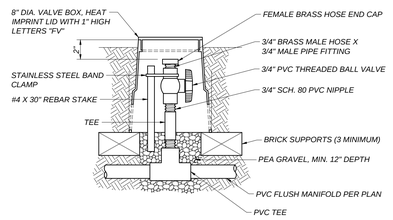


F LS1.03-1 HUNTER ECO-INDICATOR
NOT TO SCALE



I LS1.03-1 DRIPLINE FLUSH VALVE
NOT TO SCALE

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APP: 02-123309 INC: 1
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ARCHITECTURE | DESIGN
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REVISIONS

REV #	REV DATE	REV DESCRIPTION

SEAL

REGISTERED LANDSCAPE ARCHITECT
BRILEY D. BUILES
LICENSE NO. 6423
12/31/26
STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquility, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

IRRIGATION DETAILS

PHASE DESCRIPTION
100% CD - DSA SUBMITTAL INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: DZ
PROJECT MANAGER: LB
JOB NUMBER: 791

SHEET NUMBER
LS1.03-1

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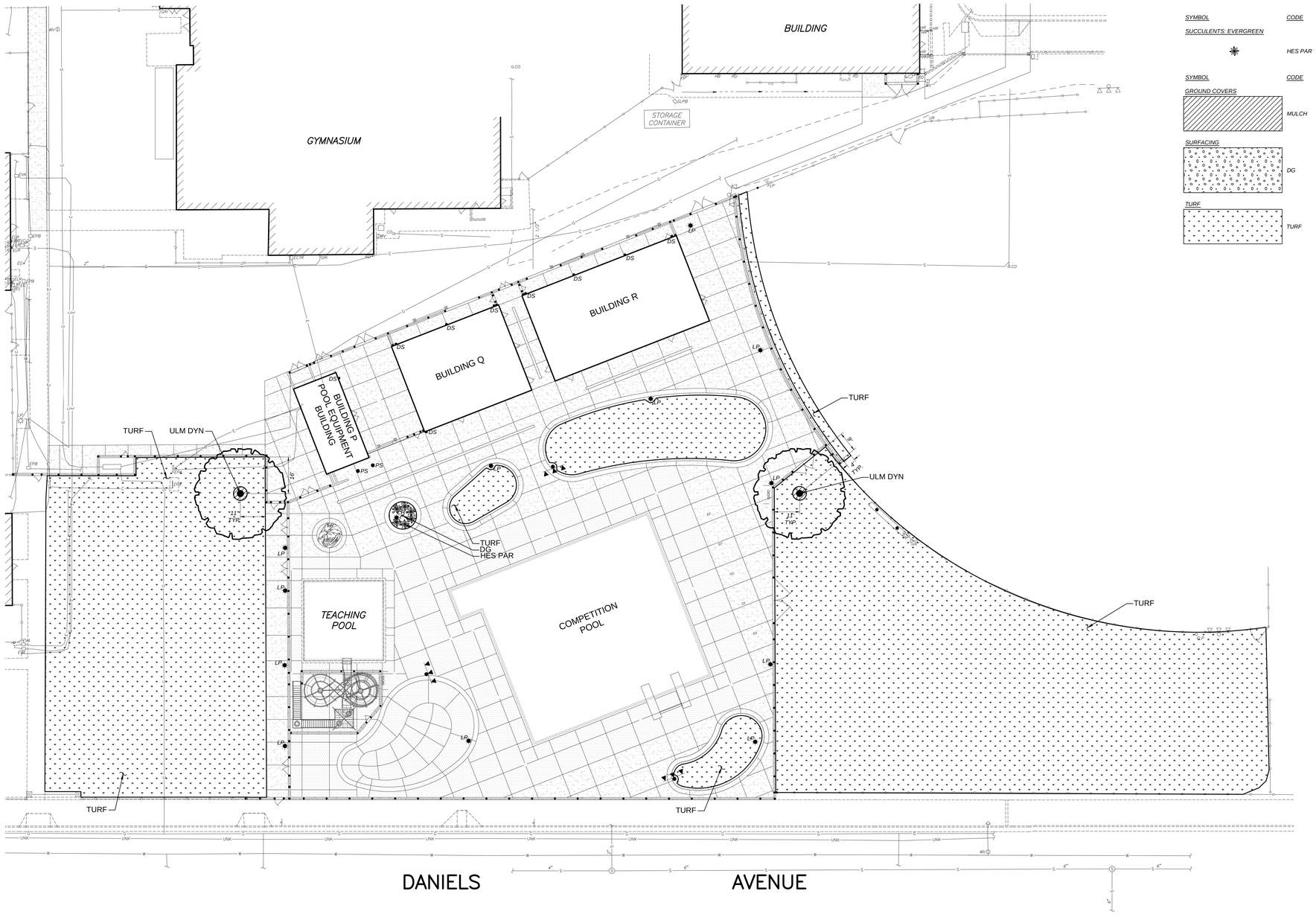

PLANT LEGEND:

TOTAL PLANTING AREA: 3,629 SQ FT

SUNSET ZONE: 8

SYMBOL	CODE	BOTANICAL / COMMON NAME	CONT	WATER USE	QTY	DETAIL	REMARKS
TREES							
	ULM DYN	ULMUS PARVIFOLIA 'DYNASTY' DYNASTY LACEBARK ELM	24"BOX		2	A/LS2.02-1	EVERGREEN FULL SUN MS: 35'-45' H X 35'-50' W
SYMBOL	*CODE*	*BOTANICAL / COMMON NAME*	*SIZE*	*WATER USE*	*QTY*	*DETAIL*	*REMARKS*
SUCCULENTS: EVERGREEN							
	HES PAR	HESPERALOE PARVIFLORA RED YUCCA	1 GAL	L	6	B/LS2.02-1	FULL SUN TO PARTIAL SHADE, REFLECTED HEAT MS: 3-4'H X 3-4'W
SYMBOL	*CODE*	*BOTANICAL / COMMON NAME*	*CONT*	*WATER USE*	*QTY*	*DETAIL*	*REMARKS*
GROUND COVERS							
	MULCH	WOOD MULCH WALK-ON BARK TYPE	N/A	N/A	56 SF	A/LS2.02-1	MIN. 3" COMPRESSED DEPTH. THE QUANTITY IS IN ADDITION TO TOTAL MIXED PLANTING AREA SEE PLANTING NOTE 18.
SURFACING							
	DG	STABILIZED DECOMPOSED GRANITE (DG)	N/A	N/A	113 SF	C/LS2.02-1	COLOR SHALL BE CALIFORNIA GOLD OR EQUAL. INSTALL OVER NON WOVEN GEOTEXTILE FABRIC (MIN. 4.0 OZ/SQ. YD.) FINAL SELECTION OF DG SHALL BE APPROVED BY OWNER
TURF							
	TURF	`CELEBRATION` BERMUDAGRASS	SOD	M	38,763 SF	D/LS2.02-1	2' WIDE REPAIR STRIPS, UNLESS NOTED OTHERWISE.

CONTRACTOR SPECIAL PLANTING NOTES:

1. *AN ASSESSMENT AND VALUATION OF ONSITE EXISTING TREES SCHEDULED TO REMAIN IN THE AREA OF WORK SHALL BE PERFORMED BY THE CONTRACTOR'S ARBORIST PRIOR TO THE START OF CONSTRUCTION OPERATIONS PER THE 'EXISTING LANDSCAPE PROTECTION' SPECIFICATION.*
2. *THE CONTRACTOR SHALL RIP, CONDITION AND TILL THE ENTIRE EXTENT OF ALL PLANTING AREAS RECEIVING NEW PLANTS PER THE PLANTING NOTES AND 'LANDSCAPE PLANTING' SPECIFICATIONS.*
3. *ALL EXISTING MIXED PLANTING AREAS RECEIVING NEW WOOD MULCH SHALL BE MANUALLY TILLED TO A MINIMUM DEPTH OF 4 INCHES, CLODS BROKEN UP TO A MAXIMUM 1 INCH DIAMETER, FINISH GRADED TO 2 INCHES BELOW ADJACENT SURFACES AND UTILITY/IRRIGATION BOXES WITHIN 12 INCHES OF THE HARDSCAPE EDGE, AND A PRE-EMERGENT HERBICIDE APPLIED PRIOR TO WOOD MULCH INSTALLATION. PROTECT EXISTING PLANTING DURING WOOD MULCH PREPARATION AND INSTALLATION.*
4. *THE ORIGINAL PLANTING OBSERVATION LOG SHALL BE MAINTAINED ON THE AS-BUILT RECORD DRAWING SET.*
5. *THE AS-BUILT RECORD DRAWING SET AND MAINTENANCE MANUAL SHALL BE SUBMITTED AND ACCEPTED PRIOR TO THE SCHEDULING OF A FINAL ACCEPTANCE REVIEW.*

LANDSCAPE PLANTING BID ALLOWANCE:

CONTRACTOR SHALL INCLUDE A BID ALLOWANCE IN THE AMOUNT OF $3,000 FOR THE REMOVAL AND REPLACEMENT OF EXISTING PLANTS/TURFGRASS AND/OR THE INSTALLATION OF NEW PLANTS/TURFGRASS WHERE NOT SPECIFICALLY SHOWN ON THE DRAWINGS FOR REPLACEMENT OR INSTALLATION.

WATER CONSERVATION COMPLIANCE STATEMENT:

I HAVE COMPLIED WITH THE CRITERIA OF THE LANDSCAPE WATER CONSERVATION ORDINANCE AND GUIDELINES, AND HAVE APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE PLANTING DESIGN PLAN.

DAVID W. BRILEY, RLA 2787

SEE SHEET LS2.02 FOR PLANTING NOTES, CALCULATIONS AND DETAILS

LANDSCAPE PLANTING OBSERVATION LOG

ITEM NO.	WORK ITEM DESCRIPTION	REVIEWED & ACCEPTED BY OWNER'S REPRESENTATIVE: PRINT NAME	SIGNATURE	DATE
PL-1	REPORT & PROTECTION OF EXISTING TREES			
PL-2	RIPPING OF PLANTING AREAS			
PL-3	SOIL CONDITIONING & TILLAGE DEPTH			
PL-4	IRRIGATION COVERAGE PRIOR TO PLANTING			
PL-5	FINISH GRADING PRIOR TO PLANTING			
PL-6	TREES - INITIAL QUALITY & LAYOUT			
PL-7	PLANTS - INITIAL QUALITY & LAYOUT			
PL-8	GRANULAR PRE-EMERGENT HERBICIDE IN MULCHED AREAS			
PL-9	WOOD MULCH DEPTH			

NOTES: THE ORIGINAL VERSION OF THIS LOG SHALL BE MAINTAINED ON THE AS-BUILT RECORD DRAWING SET. WORK ITEMS MAY NOT BE REVIEWED IF PRIOR WORK ITEMS HAVE NOT BEEN ACCEPTED.

SCALE: N 1"=20'

0 5 20 40

SCALE IN FEET

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

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DATE: 9/30/2025

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REV #	REV DATE	REV DESCRIPTION

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DAVID W. BRILEY — No. 2787 — REGISTERED LANDSCAPE ARCHITECT — 12/31/25 — STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

PLANTING PLAN

PHASE DESCRIPTION
100% CD - DSA SUBMITTAL INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: DZ
PROJECT MANAGER: LB
JOB NUMBER: 791

SHEET NUMBER
LS2.01-1

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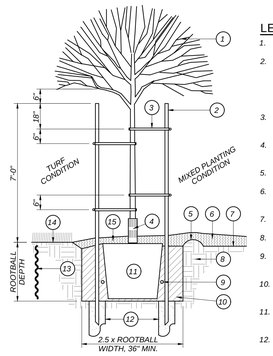


LEGEND:

1. *TREE PER PLANTING PLAN.*
2. *2" X 10' LODGEPOLE PINE STAKE. DO NOT DRIVE STAKE THROUGH ROOTBALL. CUT OFF TOP SECTION DAMAGED BY HAMMERING. TOP OF STAKE IS 6" CLEAR OF LOWEST TREE BRANCHES.*
3. *FLEXIBLE VINYL TREE TIE, 4 / TREE (V.I.T. OR APPROVED EQUAL.)*
4. *TREE TRUNK PROTECTOR (GRAY) WHERE TREE IS IN TURF AREA.*
5. *4" HIGH WATERING BERM.*
6. *ADJACENT PLANTING AREA WITH MULCH WHERE OCCURS.*
7. *FINISH GRADE.*
8. *SITE SOIL.*
9. *PLANT FERTILIZER TABLET. SEE SPECIFICATIONS.*
10. *AMENDED BACKFILL. SEE SPECIFICATIONS.*
11. *ROOTBALL. SET TOP OF ROOTBALL 2" ABOVE FINISH GRADE.*
12. *DRAINAGE SUMP: 12" DIA. PER DRAINAGE SUMP NOTES. FILL WITH CONCRETE SAND PER SSPWC 200-1.5.5.*
13. *ROOT CONTROL BARRIER WHERE REQUIRED. SEE GENERAL PLANTING NOTES AND DETAIL*
14. *ADJACENT TURFGRASS PLANTING WHERE OCCURS.*
15. *MULCH, MINIMUM 3" DEPTH. SEE GENERAL PLANTING NOTE 17.*

DRAINAGE SUMP NOTES:

A. *DRAINAGE SUMPS SHALL PENETRATE THROUGH AND BEYOND ANY UNDERLYING PAVEMENT OR HARDPAN SOIL STRATUM, AND SUCH PAVEMENT OR HARDPAN MATERIAL SHALL BE REMOVED FROM THE SUMP HOLES.*

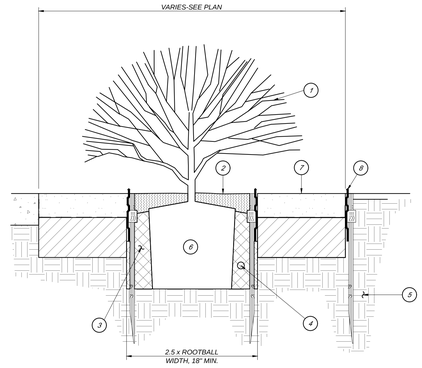
B. *THE SUMP HOLE SHALL BE DRILLED TO MINIMUM DEPTH OF TEN (10) FEET, UNLESS VISUAL EVIDENCE OF A SUBSURFACE SAND AND/OR GRAVEL DRAINAGE STRATUM IS APPARENT AT A LESSER DEPTH. THE SUMP HOLES SHALL EXTEND INTO THE DRAINAGE STRATUM A MINIMUM OF ONE (1) FOOT.*

A LS2.02-1 — DOUBLE STAKE TREE PLANTING

NOT TO SCALE

LEGEND:

1. *SHRUB.*
2. *WOOD MULCH LAYER.*
3. *AMENDED BACKFILL. SEE SPECIFICATIONS.*
4. *FERTILIZER TABLET. SEE SPECIFICATIONS.*
5. *SITE SOIL.*
6. *ROOTBALL. SET TOP OF ROOTBALL 1" ABOVE FINISH GRADE.*
7. *STABILIZED DECOMPOSED GRANITE SURFACING, SEE DETAIL "G" THIS SHEET.*
8. *PERMALOC CLEANLINE ALUMINUM EDGING, SEE DETAIL "I" THIS SHEET.*

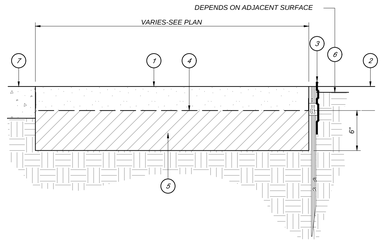


B LS2.02-1 — SHRUB PLANTING IN STABILIZED DECOMPOSED GRANITE

NOT TO SCALE

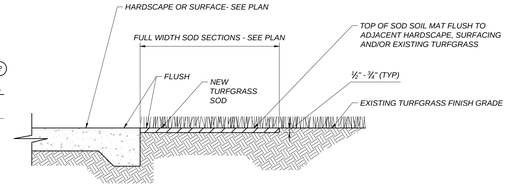
LEGEND:

1. *STABILIZED DECOMPOSED GRANITE (DG) SURFACE. SEE SPECIFICATIONS FOR MATERIALS AND METHODS. CONTRACTOR TO SUBMIT SAMPLE FOR APPROVAL.*
2. *MINIMUM THREE (3) INCH DEPTH OF DG.*
3. *PERMALOC CLEANLINE ALUMINUM EDGING, SEE DETAIL "H" THIS SHEET.*
4. *NON-WOVEN GEOTEXTILE FABRIC, MINIMUM 4.0 Oz/Yd2. WRAP UP 1-1/2" HIGH ON ALL SIDES.*
5. *RIP SUBGRADE TO A DEPTH OF 6" AND RECOMPACT TO 90% RELATIVE DENSITY.*
6. *FINISH GRADE IN PLANTING AREA SHALL BE 2" BELOW TOP OF HEADER, AND SHALL BE FLUSH TO THE TOP OF HEADER FOR TURF.*
7. *ADJACENT PAVED SURFACE OR CURB WHERE OCCURS. WHERE DG IS ADJACENT TO A HARDSCAPE SURFACE, THE TOP OF DG IS TO BE FLUSH WITH THE FINISH SURFACE.*



C LS2.02-1 — STABILIZED DECOMPOSED GRANITE SURFACING

NOT TO SCALE



NOTE:

IF THE EXISTING TURFGRASS FINISH GRADE IS HIGHER OR LOWER THAN THE NEW FINISH SURFACE, TRANSITION GRADE THE NEW SOD AT A MAXIMUM 1V:12H SLOPE

D LS2.02-1 — TURF SOD INSTALLATION

NOT TO SCALE

LANDSCAPE SHADE CALCULATIONS	*SHADING PER CALGREEN 5.106.12*		
SITE SHADING - LANDSCAPE & HARDSCAPE	***QUANTITY PROPOSED (SF)***	***PERCENT REQUIRED***	***SHADE AREA REQUIRED (SF)***
LANDSCAPED AREA (EXCLUDING SPECIAL USE & PARKING LANDSCAPE AREAS)	*3,629*	*20*	*726*
UNCOVERED HARDSCAPE AREA (EXCLUDING PARKING HARDSCAPE AREAS)	*3,349*	*20*	*670*
TOTAL SITE SHADE REQUIRED			*1,396*
PROVIDED SHADE TREES	***PROVIDED SHADE AREA***	***NO. TREES***	
VERY LARGE (40' dia.= 1256 SF)	*2,512*	*2*	
LARGE (35' dia.= 962 SF)	*0*	*0*	
MEDIUM (30' dia = 707 SF)	*0*	*0*	
SMALL (20' dia.= 314 SF)	*0*	*0*	
TOTALS	*2,512*	*2*	
OVER (UNDER) LANDSCAPE & HARDSCAPE SHADE REQUIREMENT			***1,116***

TREE SIZE AND QUALITY STANDARDS

AMERICAN STANDARDS FOR NURSERY STOCK (ANSI Z60.1) AND GUIDELINE SPECIFICATIONS FOR NURSERY TREE QUALITY (URBAN TREE FOUNDATION SHALL APPLY

	TYPES 1 & 2 SHADE TREES			***TYPE 3 SMALL UPRIGHT TREES *****			***TYPE 4 SMALL SPREADING TREES ******		
CONTAINER SIZE	***MIN. CALIPER***	***MAX. CALIPER***	***TYPE 1 MIN./MAX. HEIGHT ****	***MIN. CALIPER***	***MAX. CALIPER***	***MIN./MAX. HEIGHT***	***MIN. CALIPER***	***MAX. CALIPER***	***MIN./MAX. HEIGHT***
15 GALLON	*0.75*	*2.0*	*7-10 FT*	*0.75*	*2.0*	*6-8 FT*	*0.75*	*2.0*	*4-8 FT*
24" BOX	*1.25*	*3.0*	*8-12 FT*	*1.25*	*3.0*	*8-10 FT*	*1.25*	*3.0*	*6-10 FT*
36" BOX	*1.75*	*3.5*	*10-16 FT*	*1.75*	*3.5*	*10-14 FT*	*1.75*	*3.5*	*7-12 FT*
42" BOX	*2.0*	*4.0*	*12-20 FT*	*2.0*	*4.0*	*12-18 FT*	*2.0*	*4.0*	*8-14 FT*
48" BOX	*2.5*	*5.0*	*14-26 FT*	*2.5*	*5.0*	*14-22 FT*	*2.5*	*5.0*	*9-16 FT*

** TYPE 2 TREE HEIGHTS SHALL NOT BE LESS THAN TWO-THIRDS THE LISTED HEIGHT RANGE.*

*** TYPE 3 TREES SHALL HAVE A MINIMUM OF SEVEN BRANCHES.*

**** TYPE 4 TREES SHALL HAVE A MINIMUM OF EIGHT BRANCHES.*

CALIPER MEASUREMENT FOR CLUMP OR MULTI-STEM TREES IS ONE-HALF THE SUM OF THE THREE LARGEST TRUNK CALIPERS.

CALIPER MEASUREMENT FOR <4" TRUNK IS +6" ABOVE ROOTBALL (NOT INCLUDING ROOTSTOCK). >4" TRUNK IS +12".

TREES SHALL HAVE A CENTRAL LEADER. NEW LEADERS LESS THAN HALF THE DIAMETER OF A HEADED LEADER, BROKEN OR CO-DOMINATE LEADERS ARE NOT ACCEPTABLE.

SCAFFOLD BRANCHES SHALL BE LESS THAN 2/3 THE DIAMETER OF THE TRUNK, WITHOUT INCLUDED BARK AT ATTACHMENT. SCAFFOLD BRANCHES SHALL BE BALANCED, WELL SPACED VERTICALLY, AND WITH A RADIALLY BLANK SECTOR NO GREATER THAN 1/3 OF THE CANOPY CIRCUMFERENCE.

TEMPORARY BRANCHES ON THE LOWER TRUNK SHALL BE LESS THAN 3/8 INCH DIAMETER; AND THE CLEAR TRUNK HEIGHT SHALL BE NO MORE THAN 40% OF THE TOTAL TREE HEIGHT.

THE ROOT COLLAR AND ROOTBALL SHALL BE FREE OF DEFECTS INCLUDING CIRCLING, KINKED AND GIRDLING ROOTS. ROOTS THE EDGE AND BOTTOM OF THE CONTAINER SHALL BE LESS THAN 1/4 INCH DIAMETER, AND UNIFORM THROUGHOUT THE CONTAINER.

TREE CANOPY WIDTH SHALL BE A MINIMUM OF 25% OF THE STANDARD FORM TREE HEIGHT.

DO NOT HEAD BACK OR PRUNE TREES UNLESS APPROVED AND/OR DIRECTED TO BY THE LANDSCAPE ARCHITECT.

PLANTING NOTES:

1. *IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE IF IT IS OBVIOUS THAT OBSTRUCTIONS OR STRUCTURES, IRRIGATION SYSTEM MALFUNCTION, EXISTING TREES OR PLANTS, GRADE DIFFERENCES OR CHANGES IN THE SITE PLAN ARE PRESENT THAT WILL IMPACT THE PLANTING DESIGN. FAILURE TO GIVE SUCH NOTIFICATION SHALL PLACE THE RESPONSIBILITY ON THE CONTRACTOR FOR ANY REVISIONS OR REPLACEMENTS NECESSARY FOR CORRECTION.*
2. *ANY EXISTING PLANTING SHOWN ON THE PLAN IS FOR REFERENCE ONLY. THE CONTRACTOR SHALL VERIFY THE EXISTING PLANTING AT THE SITE PRIOR TO STARTING WORK. UNLESS NOTED OTHERWISE, THE CONTRACTOR SHALL PROTECT THE EXISTING PLANTING ADJACENT TO THE WORK FROM DAMAGE OR DISTRESS.*
3. *ALL TREES AND SHRUBS SHALL BE OF CLASS A QUALITY WITHOUT PESTS, DISEASE OR DAMAGE, SHALL BE WELL ESTABLISHED IN THEIR CONTAINERS WITHOUT GIRDLING ROOTS OR EXCESSIVE TOP GROWTH, AND SHALL COMPLY WITH THE REQUIREMENTS OF THE "AMERICAN STANDARDS FOR NURSERY STOCK" (ANSI Z60.1).*
4. *NOTIFY THE LANDSCAPE ARCHITECT PRIOR TO THE INSTALLATION OF IRRIGATION COMPONENTS AND TREE AND/OR SHRUB PLANTING FOR APPROVAL OF THE PLANT LAYOUT AND PLANT QUALITY. PLANT LOCATIONS SHALL AVOID CONFLICTS WITH EXISTING IMPROVEMENTS, PLANTINGS OR UTILITIES, LIGHT POLES WHILE MEETING THE DESIGN INTENT. DO NOT PLANT TREES WITHIN 15 FEET OF LIGHT POLES UNLESS SPECIFICALLY AUTHORIZED. FAILURE TO OBTAIN SUCH APPROVAL SHALL PLACE THE RESPONSIBILITY ON THE CONTRACTOR FOR ANY RELOCATION OR REPLACEMENT OF IRRIGATION COMPONENTS, PLANTED TREES AND/OR SHRUBS.*
5. *PLANT QUANTITIES ARE PROVIDED FOR BIDDING CONVENIENCE ONLY. THE CONTRACTOR SHALL PROVIDE SUFFICIENT QUANTITIES OF PLANTS EQUAL TO THE SYMBOL COUNT OR TO FILL THE AREA SHOWN ON THE PLAN AT THE SPECIFIED TRIANGULAR SPACING.*
6. *WHERE GROUND COVER PLANTS ARE SHOWN AT A SPECIFIED SPACING, THE GROUND COVER PLANTING CONTINUES UNDERNEATH THE TALLER SHRUBS AND TREES AS SHOWN IN THE PLANTING DETAILS. DO NOT PLANT GROUND COVER IN SHRUB OR TREE WATERING BASINS.*
7. *ALL NEW TREES LOCATED WITHIN 8 FEET OF PAVEMENT OR STRUCTURES SHALL HAVE A ROOT CONTROL BARRIER INSTALLED WHEN PLANTED. UNLESS OTHERWISE SPECIFIED, INSTALL A 12 FOOT LONG X 24 INCH DEEP LINEAR POLYETHYLENE BARRIER VESPRO OR EQUAL AT THE EDGE OF PAVEMENT/STRUCTURE, CENTERED ON THE TREE TRUNK AS SHOWN IN THE PLANTING DETAILS.*
8. *REMOVE NURSERY STAKES FROM TREES AFTER TREE STAKING OR GUYING AS SHOWN IN THE DETAILS.*
9. *INSTALL PERFORATED POLYETHYLENE TREE TRUNK PROTECTORS FOR ALL NEW TREES PLANTED IN TURF. UNLESS NOTED OTHERWISE, MAINTAIN A MINIMUM 6 FOOT DIAMETER MULCHED AREA AT THE BASE OF THE TREE INSIDE THE WATERING BASIN.*
10. *THE CONTRACTOR SHALL PRUNE NEW TREES ONLY WHEN SPECIFICALLY DIRECTED BY THE LANDSCAPE ARCHITECT. TREES HEADED BACK WITHOUT INTACT SCAFFOLDING BRANCH STRUCTURE OR IN ROOT-BOUND CONTAINERS SHALL BE REJECTED.*
11. *SUBMIT REPRESENTATIVE SOIL SAMPLES OF NATIVE AND PROPOSED IMPORT, IF NEEDED, PLANTING TOPSOIL TO A SOIL LAB FOR HORTICULTURAL ANALYSES AND FERTILITY RECOMMENDATIONS, AMEND SOIL ACCORDING TO THE RECOMMENDATIONS OF THE SOILS REPORT AND LANDSCAPE ARCHITECT'S DIRECTION. SEE THE LANDSCAPE PLANTING SPECIFICATIONS FOR ADDITIONAL INSTRUCTIONS.*
12. *PROVIDE SANDY LOAM TOPSOIL PER SPECIFICATION IN ALL RAISED PLANTERS AND WHERE IMPORT TOPSOIL IS REQUIRED. NATIVE SITE SOIL MAY BE USED IN RAISED PLANTERS ONLY WHEN THE NATIVE SITE SOIL MEETS THE CRITERIA FOR SANDY LOAM TOPSOIL AS DETERMINED BY A SOIL ANALYSIS.*
13. *PRIOR TO SOIL CONDITIONING IN NEW PLANTING AREAS, RIP IN TWO DIFFERENT DIRECTIONS WITH TINES AT 12 INCH SPACING, ALL TURFGRASS AREAS TO A 12 INCH DEPTH, AND SHRUB/GROUND COVER AREAS TO A 18 INCH DEPTH. ROUGH GRADE AND TILL THE APPROVED SOIL CONDITIONERS AND FERTILIZERS INTO THE TOP SIX (6) INCHES OF ALL PLANTING AREAS PER THE LANDSCAPE PLANTING SPECIFICATIONS. COMPOST RATE SHALL BE A MINIMUM OF SIX (6) CUBIC YARDS PER 1,000 SQUARE FEET OR AS MODIFIED BY THE LANDSCAPE ARCHITECT BASED ON THE SOIL FERTILITY ANALYSIS.*
14. *UPON THE COMPLETION OF THE SOIL CONDITIONING, REMOVE ROCKS AND CLODS 1 INCH DIAMETER AND GREATER FROM THE TOP TWO INCHES OF TOPSOIL, AND ALL DEBRIS. FINISH GRADE THE AREA TO +/- 0.04 FOOT TOLERANCE. FINISH GRADE IN MULCHED AREAS SHALL BE STRAIGHT GRADES WITHOUT HUMPS OR DEPRESSIONS AND SHALL BE 2 INCHES BELOW ADJACENT HARDSCAPE, INLETS OR UTILITY BOX COLLARS. RELATIVE DENSITY OF THE TOPSOIL SHALL NOT EXCEED 85% COMPACTION.*
15. *OBTAIN THE APPROVAL OF THE OWNER'S REPRESENTATIVE TO BEGIN PLANTING OPERATIONS ONCE THE IRRIGATION SYSTEM IS OPERATIONAL AND THE SOIL CONDITIONING AND FINISH GRADING IS COMPLETED.*
16. *AFTER PLANTING IS COMPLETED AND JUST PRIOR TO MULCH INSTALLATION, APPLY A BROAD SPECTRUM PRE-EMERGENT HERBICIDE TO ALL NON-TURFGRASS PLANTING AREAS PER THE MANUFACTURER'S SPECIFICATIONS.*
17. *WHERE MULCH IS TO BE INSTALLED IN AN EXISTING PLANTING AREA, BREAKUP/TILL THE EXISTING SOIL TO A MINIMUM 6 INCH DEPTH PER SPECS, AND ADJUST FINISH GRADE ADJACENT TO HARDSCAPE AND DRAINAGE ELEMENTS TO PROVIDE A 2 INCH DEPTH THAT TRANSITIONS TO THE EXISTING GRADE OVER 1 TO 2 FEET.*
18. *INSTALL A MINIMUM 3 INCH DEPTH OF CHIPPED WALK-ON WOOD MULCH IN ALL PLANTING AREAS AND TREE WATERING BASINS EXCEPT FOR TURFGRASS AREAS, SLOPES 3H:1V OR GREATER, AREAS TO RECEIVE SEED PLANTING, OR AS NOTED ON THE PLAN. AREAS PLANTED WITH FLATS SHALL HAVE A MINIMUM MULCH DEPTH OF 2 INCHES. INSTALL A MINIMUM 3 FOOT RADIUS OF 3 INCH DEEP WOOD MULCH AT THE BASE OF ALL TREES IN NEW TURFGRASS AREAS.*
19. *ALL EXISTING PLANTS AND/OR TURFGRASS SHOWN TO REMAIN AND DAMAGED OR REMOVED BY CONSTRUCTION OPERATIONS AND/OR UTILITY/IRRIGATION/DRAINAGE LINES SHALL BE REPLACED WITH PLANTS THAT MATCH AS CLOSELY AS POSSIBLE TO THE EXISTING PLANT SPECIES, VARIETY AND SIZE. THE REPLACEMENT TURFGRASS SOD VARIETY SHALL BE THE SAME AS SHOWN IN THE PLANTING LEGEND AS IF FOR NEW WORK, OR SHALL MATCH THE EXISTING TURFGRASS VARIETY WHERE EXISTING. TILL SOIL CONDITIONING MATERIALS INTO THE TOP 6 INCHES OF THE SOIL OVER THE AREA OF REPAIR/REPLACEMENT AS IF FOR NEW WORK. ADJUST FINISH GRADE SO NEW TURFGRASS SOD ABUTS FLUSH TO EXISTING SOD GRADE. THE REPLACEMENT PLANTS AND/OR TURFGRASS SOD SHALL BE MAINTAINED AS PART OF THE ORIGINAL SCOPE OF WORK. THE REPAIR OR REPLACEMENT WORK SHALL BE AT THE CONTRACTOR'S SOLE EXPENSE.*
20. *CONTRACTOR SHALL MAINTAIN THE NEW PLANTING FOR HEALTHY AND VIGOROUS GROWTH, WHICH INCLUDES BUT IS NOT LIMITED TO WATERING, WEEDING, FERTILIZING, MOWING AND EDGING (AT LEAST ONCE A WEEK), REMOVING TRASH AND DEBRIS, AND OTHER RELATED ACTIVITIES THROUGHOUT THE DURATION OF THE MAINTENANCE PERIOD UNTIL FINAL ACCEPTANCE.*

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REVISIONS

REV #	REV DATE	REV DESCRIPTION

SEAL

LANDSCAPE ARCHITECT — BRUCE WILLIAM MULLER — No. 5614 — 12/31/25 — RENEWAL DATE — STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

PLANTING DETAILS

PHASE DESCRIPTION
100% CD - DSA SUBMITTAL INCREMENT 1

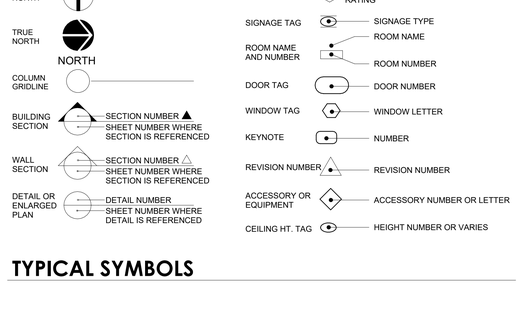
DATE: 9/24/2025
TECHNICIAN: DZ
PROJECT MANAGER: LB
JOB NUMBER: 791

SHEET NUMBER
LS2.02-1

Drawing: P:\2024\24-25\Dwg\Production\Drawings\24027_LAS701.dwg, Planting Details - BCF.ctb
Plotted By: Dylan Zeigler - Sep 24, 2025 - 2:38pm

AB	ANCHOR BOLT
ABV	ABOVE
AC	ASPHALT CONCRETE
ACC	ACCESSIBLE
A/C	AIR CONDITIONING
ACOUS	ACOUSTICAL
ADD	ADDENDUM
ADJ	ADJUSTABLE/ADJACENT
AFF	ABOVE FINISHED FLOOR
AGG	AGGREGATE
AHU	AIR HANDLING UNIT
AIB	AIR INFILTRATION BARRIER
ALT	ALTERNATE
ALUM	ALUMINUM
ANOD	ANODIZED
APC	ACOUSTIC PANEL CEILING
APPROX	APPROXIMATE
APVD	APPROVED
ARCH	ARCHITECT (URAL)
BB	BOTTOM OF BEAM
BD	BOARD
BEL	BELOW
BITUM	BITUMINOUS
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BEAM
BOT	BOTTOM
BRG	BEARING
BRK	BRICK
BRZ	BRONZE
BUR	BUILT UP ROOFING
C	CARPET
CAB	CABINET
CB	CATCH BASIN
CD	CEILING DIFFUSER
CEM	CEMENT
CER	CERAMIC
CF	CUBIC FOOT
CFL	COUNTERFLASHING
CFM	CUBIC FOOT PER MINUTE
CG	CORNER GUARD
CH	CEILING HEIGHT
CHAM	CHAMFER
CHBD	CHALKBOARD
CI	CAST IRON
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLGJ	CEILING JOIST
CLR	CLEAR
CT	CERAMIC (TILE)
CMU	CONCRETE MASONRY UNIT
CNTR	COUNTER
CO	CLEAN OUT
COL	COLUMN
COMB	COMBINATION
COMP	COMPOSITION (COMPOSITE)
CONC	CONCRETE
CONT	CONTINUOUS OR CONTINUE
CONST	CONSTRUCTION
CORR	CORRUGATED
COTF	CLEAN OUT THRU FLOOR
COTG	CLEAN OUT TO GRADE
COTW	CLEAN OUT THRU WALL
CR	CURB RETURN
CRTNW	CURTAIN WALL
CSK	COUNTERSINK
CSMT	CASEMENT
CTSK	COUNTERSUNK SCREW
CTR	CENTER
CVT	CONDUCTIVE VINYL TILE
CW	COLD WATER
D	DEPTH
DBL	DBL
DET	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DIV	DIVISION
DL	DEAD LOAD
DN	DOWN
DP	DAMP PROOFING
DPRS	DEPRESSED
DR	DOOR
DS	DOWNSPOUT
DSPR	DISPENSER
DWG	DRAWING
DWR	DRAWER
E	ENAMEL
EA	EACH
EC	ELECTRICAL CONTRACTOR
EDF	ELECTRIC DRINKING FOUNTAIN
EEW	EMERGENCY EYEWASH
EF	ELASTOMERIC FLASHING
EIFS	EXTERIOR INSULATED FIN. SYS.
EJ	EXPANSION JOINT
ELEV	ELEVATION
ELEC	ELECTRIC (AL)
EMER	EMERGENCY
ENAM	ENAMEL
ENCL	ENCLOSE (URE)
EQ	EQUAL
EQPT	EQUIPMENT
ER	EXHAUST REGISTER
EW	EACH WAY
EWC	ELECTRIC WATER HEATER
EXH	EXHAUST
EXIST	EXISTING
(E)	EXISTING
EXP	EXPOSED
EXT	EXTERIOR
EXTING	EXTINGUISHER
FA	FIRE ALARM
FAB	FABRICATION
FAC	FACTORY
FAS	FASTEN, FASTENER
FBD	FIBERBOARD
FBGL	FIBERGLASS
FBLK	FIRE BLOCKING
FBO	FURNISHED BY OTHERS
FD	FLOOR DRAIN
FEC	FIRE EXTINGUISHER CABINET
FF	FINISHED FLOOR
FG	FIXED GLASS
FHC	FIRE HOSE CABINET
FHMS	FLATHEAD MACHINE SCREW
FHWS	FLATHEAD WOOD SCREW
FIN	FINISH(ED)
FJ	FLOOR JOIST
FLR	FLOOR(ING)
FLSH	FLASHING
FLUOR	FLUORESCENT
FLX	FLEXIBLE
FND	FOUNDATION
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUDS
FR	FRAME (D), (ING)
FTG	FOOTING
FURR	FURRED (ING)
FUT	FUTURE
FWC	FABRIC WALL COVERING
GA	GAGE, GAUGE
GB	GYPSUM BOARD
GC	GENERAL CONTRACTOR
GD	GRADE, GRADING
GEN	GENERATOR
GI	GALVANIZED IRON
GKT	GASKET(ED)
GL	GLASS, GLAZING
GLV	GALVANIZED
GRG	GLASS REINFORCED GYPSUM
GVL	GRAVEL
GYP	GYPSUM
H	HIGH
HB	HOSE BIBB
HC	HOLLOW CORE
HDB	HARDBOARD
HDR	HEADER
HDW	HARDWOOD
HDWR	HARDWARE
HEX	HEXAGONAL
HM	HOLLOW METAL, STEEL
HOR	HORIZONTAL
HP	HIGH POINT
HS	HOSE STATION
HT	HEIGHT
HTG	HEATING
HVAC	HEATING/VENTILATING/ AIR CONDITIONING
HW	HOT WATER
ID	INSIDE DIAMETER
IMP	INSULATED METAL PANEL
INCAND	INCANDESCENT
INCL	INCLUDE (D), (ING)
INFO	INFORMATION
INSTR	INSTRUCTION(S)
INSUL	INSULATE (D), (ION)
INT	INTERIOR
INV	INVERT
JC	JANITORS CLOSET
JST	JOIST
JT	JOINT
KO	KNOCKOUT
LAD	LADDER
LAM	LAMINATE(D)
LAV	LAVATORY
LB	LAG BOLT
LBL	LABEL
LH	LEFT HAND
LNTL	LINTEL
LP	LOW POINT
LTG	LIGHTING
LVR	LOUVER
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MB	MACHINE BOLT
MBR	MODIFIED BITUMEN ROOFING
MC	MEDICINE CABINET
MECH	MECHANICAL)
MED	MEDIUM
MFG	MANUFACTURING
MFR	MANUFACTURE(R)
MGS	METAL GRAVEL STOP
MH	MANHOLE
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MKBD	MARKER BOARD
MLD	MOLDING, MOULDING
MMB	MEMBRANE
MO	MASONRY OPENING
MOD	MODULAR
MT	METAL THRESHOLD
MNT	MOUNT(ED), (ING)
MTL	METAL
MUL	MULLION
N	NORTH
(N)	NEW
NAT	NATURAL
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
O/	OVER
OA	OVERALL
OBS	OBSCURE
OC	ON CENTER(S)
OD	OUTSIDE DIAMETER
OFD	OVERFLOW DRAIN
OH	OPPOSITE HAND
OPQ	OPAQUE
OPG	OPENING
OPP	OPPOSITE
OPT	OPTIONAL
PBD	PARTICLE BOARD
PCPL	PORTLAND CEMENT PLASTER
PERIM	PERIMETER
PERF	PERFORATE(D)
PFB	PREFABRICATE(D)
PL	PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLT /(P)	PLATE
PLUMB	PLUMBING
PLYWD	PLYWOOD
PNL	PANEL
PNT	PAINT(ED)
POC	POINT OF CONNECTION
PR	PAIR
PRCST	PRECAST
PROJ	PROJECT
PRTD	PRESSURE TREATED
PT	POINT
PTD	PAINTED
PTN	PARTITION
PVA	POLYVINYL ACETATE
PVC	POLYVINYL CHLORIDE
QC	QUALITY CONTROL
QT	QUARRY TILE
QTY	QUANTITY
R	RISER
RAD	RADIUS
RAF	RAISED ACCESS FLOOR
RCP	REFLECTED CEILING PLAN
RCPT	RECEPTACLE
RD	ROOF DRAIN
RDWD	REDWOOD
REF	REFERENCE
REFR	REFRIGERATOR
REINF	REINFORCE (D), (ING)
REM	REMOVE (ABLE)
REQ'D	REQUIRED
RES	RESILIENT
RET	RETURN
REV	REVISION (S), REVISED
RFG	ROOFING
RFL	REFLECT (ED), (IVE), (OR)
RFM	RECESSED FLOOR MAT
RG	RETURN GRILLE
RH	RIGHT HAND
RL	RIDGE LINE
RLF	RELIEF
RM	ROOM
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RR	RETURN REGISTER
RWL	RAINWATER LEADER
RWC	RAINWATER CONDUCTOR
S	SOUTH
SA	CONTINUOUS SHELF ANGLE
SAN	SANITARY
SC	SOLID CORE
SCH	SCHEDULE
SD	STORM DRAIN
SEC	SECTION
SF	SQUARE FOOT
SFM	STATE FIRE MARSHALL
SFFA	SQUARE FOOT FREE AREA
SGP	SPANDREL GLASS PANEL
SHLF	SHELF
SHLV	SHELVES (ING)
SHT	SHEET
SHTG	SHEATHING
SIM	SIMILAR
SKL	SKYLIGHT
SLV	SLEEVE
S/P	SHELF & POLE
SO	STOREFRONT OPENING
SPR	SINGLE-PLY ROOFING
SPEC	SPECIFICATION(S)
SQ	SQUARE
SR	SUPPLY REGISTER
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STN	STONE
STO	STORAGE
STRUCT	STRUCTURE (AL)
STW	STORM WATER
SUBST	SUBSTATION
SV	SHEET VINYL
SYS	SYSTEM
T	TREAD
TB	TOWEL BAR
T&B	TOP & BOTTOM
TELE	TELEPHONE
TEMP	TEMPERED
T&G	TONGUE AND GROOVE
THK	THICK(NESS)
THRU	THROUGH
TJ	TOOL JOINT
TKBD	TACKBOARD
TO	TOP OF
TOM	TOP OF MASONRY
TOB	TOP OF BEAM
TOC	TOP OF CURB or CONCRETE
TOS	TOP OF STEEL, SLAB or STRUCTURE
TOW	TOP OF WALL
TP	TOILET PAPER DISPENSER
TPTN	TOILET PARTITION
TS	TOP OF SHEATHING
TSB	TOP SET BASE
TSL	TOP OF SLAB
T&T	T-BAR ACOUSTIC TILE
TV	TELEVISION
TYP	TYPICAL
U	UNIVERSAL
UON	UNLESS OTHERWISE NOTED
V	VINYL
VAR	VARIES
VB	VAPOR BARRIER
VCT	VINYL COMPOSITION TILE
VCTB	VINYL COVERED TACKBOARD
VERT	VERTICAL
VEST	VESTIBULE
VG	VERTICAL GRAIN
VGP	VISION GLASS PANEL
VNR	VENEER
VNT	VENT
VO	VENT OVER/OFFSET
VR	VENT RISER
VTR	VENT THROUGH ROOF
VWC	VINYL WALL COVERING
W/	WITH
WBL	WOOD BLOCKING
WC	WATER CLOSET
WD	WOOD
WG	WIRED GLASS
WHC	WALL HUNG CABINET
WI	WROUGHT IRON
WIN	WINDOW
WK	WORK
WM	WIRE MESH
WO	WINDOW OPENING
W/O	WITHOUT
WP	WATERPROOFING
WR	WEATHER RESISTANT
WSCT	WAINSCOT
WST	WASTE
WTHP	WEATHERPROOF
WWF	WELDED WIRE FABRIC
&	AND
@	AT
℄	CENTER LINE
⌀	DIAMETER
▫	SQUARE FEET

ABBREVIATIONS



TYPICAL SYMBOLS

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REVISIONS

REV #	REV DATE	REV DESCRIPTION

SEAL

LICENSED ARCHITECT
ANTONIO PAVONE
C-39028
REN: 9/30/2025
STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
INCREMENT 1 AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

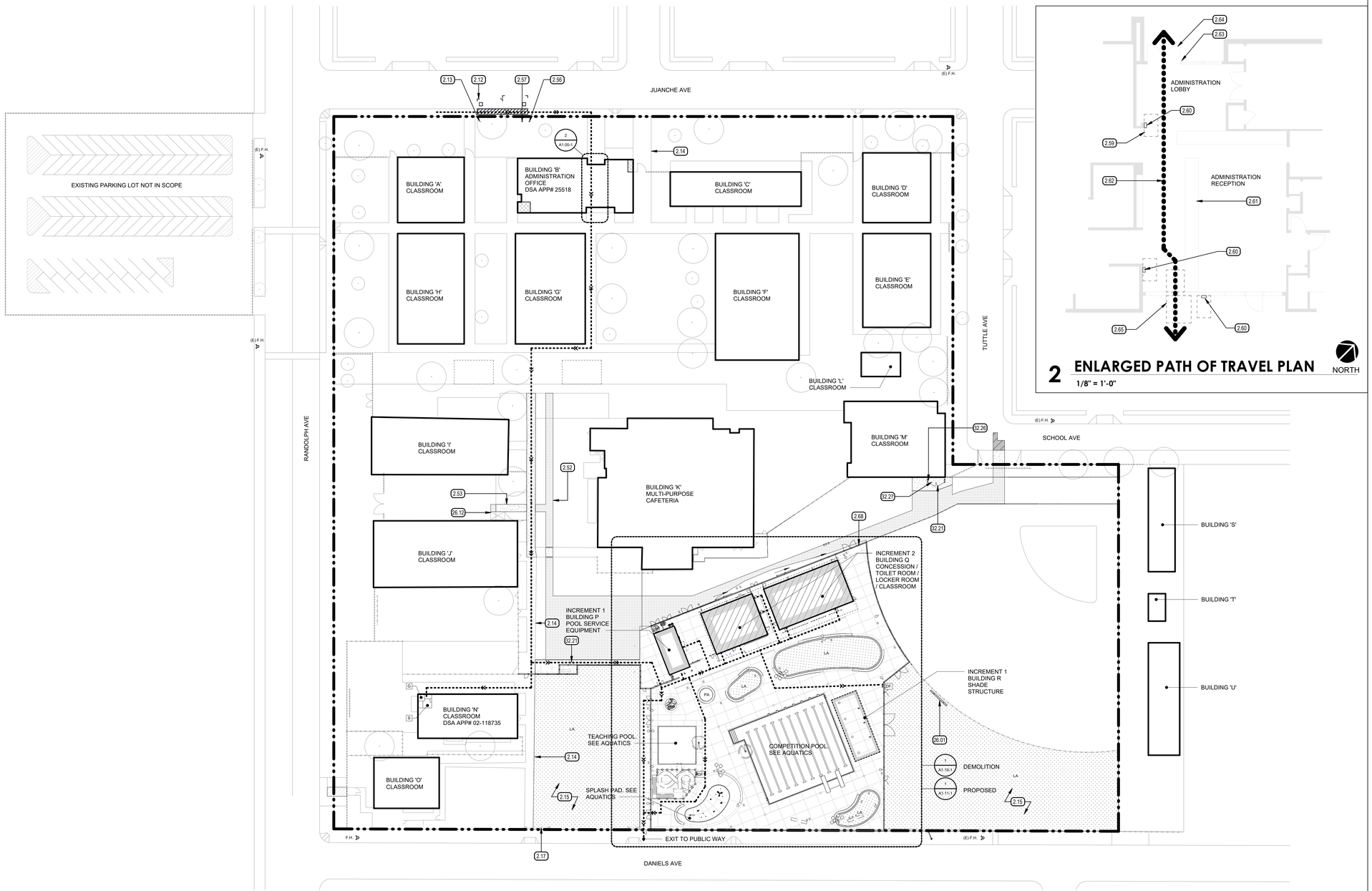
LEGENDS AND ABBREVIATIONS

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: RT / JL
PROJECT MANAGER: TP
JOB NUMBER: 791

SHEET NUMBER
A0.00-1

PLOT DATE: 9/19/2025 5:36:06 PM



1 **PROPOSED OVERALL SITE PLAN**

1" = 40'-0"

NORTH

2 **ENLARGED PATH OF TRAVEL PLAN**

1/8" = 1'-0"

NORTH

2.12 EXISTING OFF-SITE ACCESSIBLE PARKING STALL WITH PAINTED BLUE CURB.
2.13 EXISTING ACCESSIBLE PARKING STALL SIGN TO REMAIN
2.14 EXISTING CONCRETE WALK TO REMAIN
2.15 EXISTING LANDSCAPE AND IRRIGATION TO REMAIN. SEE LANDSCAPE.
2.17 EXISTING SLIDING CHAIN LINK GATE TO REMAIN
2.52 PATCH AND RECOMPACT SOIL TO MATCH EXISTING ADJACENT CONDITIONS.
2.53 PATCH EXISTING CONCRETE TO MATCH EXISTING ADJACENT CONDITIONS.
2.56 (N)TOW-AWAY SIGN WARNING. 11 / A8.00-1
2.57 (N) VAN ACCESSIBLE PARKING STALL SIGN, SEE11 / A8.00-1
2.59 30" X 48" CLEAR FLOOR SPACE
2.60 ACCESSIBLE DOOR OPERATOR PUSH BUTTON. SEE 14 / A8.00-1 15 / A8.00-1
2.61 EXISTING BASE CABINET TO REMAIN, TYP.
2.62 ACCESSIBLE PATH OF TRAVEL, SEE OVERALL SITE PLAN FOR CONTINUATION.
2.63 EXISTING SECURE ENTRY INTERCOM PUSH BUTTON16 / A8.00-1
2.64 EXISTING 72" WIDE x 84" TALL ELECTRONICALLY OPERATED DOUBLE SWING DOOR.16 / A8.00-1
2.65 EXISTING 36" WIDE x 84" TALL ELECTRONICALLY OPERATED SINGLE SWING DOOR. 13 / A8.00-1
2.68 EXISTING MUSCO LIGHT POLE TO REMAIN.
26.01 PRE-CHECKED SCOREBOARD. SEE SCOREBOARD MANUFACTURER AND ELECTRICAL.
26.12 EXISTING ELECTRICAL MAIN SWITCH BOARD, SEE ELECTRICAL.
32.21 CHAIN LINK FENCING & GATES, SEE CIVIL
32.26 REINSTALL SALVAGE BOOSTER PUMP, SEE CIVIL AND LANDSCAPE.
32.27 IRRIGATION COMPONENT, SEE LANDSCAPE.

KEYNOTES (XX.XX)

- SITE CONCRETE, SEE CIVIL.
- NEW ASPHALT, SEE CIVIL.
- PROPOSED PRE-MANUFACTURED SHADE STRUCTURE. SEE MANUFACTURES DRAWINGS
- EXISTING BUILDING NOT INCLUDED IN SCOPE OF WORK
- PORTION OF EXISTING BUILDING INCLUDED IN SCOPE OF WORK. SEE ELECTRICAL
- PROPOSED BUILDING P
- PROPOSED BUILDING Q (INCREMENT 2)
- LA — LANDSCAPE AREA, SEE LANDSCAPE
- CHAIN LINK FENCE WITH MOWSTRIP. SEE CIVIL
- DECORATIVE METAL FENCE. SEE CIVIL
- LIGHT POLE, SEE ELECTRICAL
- SURFACE MOUNTED LIGHT FIXTURE AT SHADE STRUCTURE, SEE ELECTRICAL
- (E)F.H. — FIRE HYDRANT, SEE CIVIL.
- PA — PLANTER AREA, SEE LANDSCAPE.
- PROPERTY LINE
- ACCESSIBLE ROUTE (2022 C.B.C. SECTION 11B - 206)
- G — ACCESSIBLE GENDER NEUTRAL STUDENT TOILET DSA APPLICATION NUMBER 02-118735
- S — ACCESSIBLE GENDER NEUTRAL STAFF TOILET ROOM DSA APPLICATION NUMBER 02-118735
- DF — ACCESSIBLE DRINKING FOUNTAIN. THIS DSA APPLICATION NUMBER AS PART OF INCREMENT 1
- M2 — ACCESSIBLE MENS TOILET ROOM. THIS DSA APPLICATION NUMBER AS PART OF INCREMENT 2
- W2 — ACCESSIBLE WOMENS TOILET ROOM. THIS DSA APPLICATION NUMBER AS PART OF INCREMENT 2
- S2 — ACCESSIBLE GENDER NEUTRAL STAFF TOILET ROOM THIS DSA APPLICATION NUMBER AS PART OF INCREMENT 2

THE ACCESSIBLE ROUTE, AS DEFINED IN THE CALIFORNIA BUILDING CODE, IS A CONTINUOUS UNOBSTRUCTED PATH CONNECTING ACCESSIBLE ELEMENTS AND SPACES OF AN ACCESSIBLE SITE, BUILDING OR FACILITY THAT CAN BE NEGOTIATED BY A PERSON WITH A DISABILITY USING A WHEELCHAIR, AND THAT IS ALSO SAFE FOR AND USABLE BY PERSONS WITH OTHER DISABILITIES. INTERIOR ACCESSIBLE ROUTES MAY INCLUDE CORRIDORS, HALLWAYS, FLOORS, RAMPS, ELEVATORS, AND LIFTS. EXTERIOR ACCESSIBLE ROUTES MAY INCLUDE PARKING ACCESS AISLES, CURB RAMPS, CROSSWALKS AT VEHICULAR WAYS, WALKS, RAMPS AND LIFTS. INTERIOR AND EXTERIOR ACCESSIBLE ROUTES SHALL COMPLY WITH CBC CHAPTER 11B: ACCESSIBLE ROUTES. COMMON PATH OF TRAVEL ITEMS INCLUDE: DRINKING FOUNTAINS SERVING THE AREA OF ALTERATION, PUBLIC TELEPHONES SERVING THE AREA OF ALTERATION, EXTERIOR OR INTERIOR SIGNS ALONG THE PATH OF TRAVEL, ACCESSIBLE ROUTE COMPONENTS, WALKING SURFACES DIMENSIONS, RUNNING SLOPE OF WALKING SURFACE ARE NOT TO EXCEED 1:20 SLOPE, RUNNING SLOPE OF RAMPS ARE NOT TO EXCEED 1:12 SLOPE, CROSS SLOPE OF WALKS, RAMPS AND LANDINGS ARE NOT TO EXCEED 1:48, VERTICAL CHANGES IN LEVEL ARE NOT TO EXCEED 1/4", OPENING IN DRAINS AND GRATINGS ARE NOT TO EXCEED 1/2" IN PREDOMINANT DIRECTION OF TRAVEL, PROTRUDING OBJECTS AND OVERHEAD OBSTRUCTIONS ARE TO HAVE 80" MINIMUM HEAD CLEARANCE AND ARE NOT TO PROJECT MORE THAN 4" FROM WALLS WITHIN A 27" AND 80" RANGE, SITE ARRIVAL POINTS, PARKING LOTS, BUS STOPS, PASSENGER DROP-OFF AND LOADING ZONES.

DESIGN PROFESSIONAL IN CHARGE STATEMENT:

- THE P.O.T. IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS MEETS THE REQUIREMENTS OF THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE (CBC) ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS.
- AS PART OF THE DESIGN OF THIS PROJECT, THE P.O.T. WAS EXAMINED AND ANY ELEMENTS, COMPONENTS, OR PORTIONS OF THE P.O.T. THAT WERE DETERMINED TO BE NONCOMPLIANT WITH THE CBC HAVE BEEN IDENTIFIED AND THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS, AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS.
- ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T. THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE INDICATED IN THESE CONSTRUCTION DOCUMENTS.
- DURING CONSTRUCTION, IF P.O.T. ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CBC COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY ITEMS SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.
- ITS ADVISABLE TO AVOID DESIGN REQUIREMENTS THAT ARE AT OR NEAR DIMENSIONAL THRESHOLDS. CONSTRUCTION TOLERANCES MAY BE USED WHEN EVALUATING THE COMPLIANCE OF EXISTING PATH OF TRAVEL ELEMENTS PER DSA IR 11B-8 'USE OF PREDETERMINED CONSTRUCTION TOLERANCE GUIDELINES FOR ACCESSIBILITY

LEGEND

A. THE CONTRACTOR SHALL ACCEPT THE SITE IN ITS PRESENT CONDITION & DEMOLISH AND/OR REMOVE FROM THE AREA OF THE PROJECT ALL STRUCTURES, BOTH SURFACE & SUBSURFACE, TREES, BRUSH, ROOTS, DEBRIS, ORGANIC MATTER, & ALL OTHER MATTER DETERMINED BY THE INSPECTOR TO BE DETRIMENTAL. SUCH MATERIAL SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR.
B. EXCAVATIONS SHALL BE ADEQUATELY SHORED, BRACED & SHEETED SO THAT THE EARTH WILL NOT SLIDE OR SETTLE & SO THAT ALL EXISTING IMPROVEMENTS OF ANY KIND WILL BE FULLY PROTECTED FROM DAMAGE. WHERE THE EXCAVATION FOR A CONDUIT TRENCH, AND/OR STRUCTURE IS FIVE FEET OR MORE IN DEPTH, THE CONTRACTOR SHALL PROVIDE ADEQUATE SHEETING, WHICH SHALL CONFORM TO THE APPLICABLE CONSTRUCTION SAFETY ORDERS OF THE DIVISION OF INDUSTRIAL SAFETY OF THE STATE OF CALIFORNIA. THE CONTRACTOR SHALL ALWAYS COMPLY WITH OSHA REQUIREMENTS.
C. FINISH GRADE SHALL HAVE A 1.5% SLOPE AWAY FROM THE BLDG. FOR A DISTANCE NOT LESS THAN 5'-0" FROM THE BLDG.
D. UPON COMPLETION OF CONSTRUCTION, THE LOCAL FIRE DEPARTMENT AND/OR EMERGENCY COMMUNICATIONS AUTHORITY WILL BE CONTACTED TO OBTAIN DESIGN & EQUIPMENT SPECIFICATIONS, AND TESTING AND ACEPTANCE CRITERIA FOR EMERGENCY RESPONDER RADIO COVERAGE (ERRC) PER CFC 510. UPON COMPLETION COPIES OF THE APPROVED PLANS, EQUIPMENT DATA SHEETS AND PROOF OF TESTING AND ACCEPTANCE DOCUMENTATION SHALL BE PROVIDED TO THE SCHOOL DISTRICT.
E. EXTERIOR CONC. LANDINGS AT DOORS SHALL NOT BE MORE THAN 1/2 INCH LOWER THAN DOORWAY THRESHOLD WITH 1/4 INCH PER FOOT SLOPE MAX.
F. ALL DIMENSIONS SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
G. REFER TO CIVIL, AQUATICS, STRUCTURAL, LANDSCAPE, PLUMBING & ELECTRICAL FOR ADDITIONAL INFORMATION. CONTRACTOR TO COORDINATE ALL TRADES TO MAINTAIN PROPER CLEARANCES & AVOID CONFLICTS.
H. PROTECT EXISTING IMPROVEMENTS TO REMAIN.

GENERAL NOTES

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123309 INC: 1
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 9/30/2025

AGD ARCHITECTURE | DESIGN
ANDREW GOODWIN DESIGNS
1238 MONTEREY STREET
SAN LUIS OBISPO, CA 93422
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www.andrewgoodwin.us

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REVISIONS

REV #	REV DATE	REV DESCRIPTION

SEAL

LICENSED ARCHITECT — ANTONIO PAVONE — C-39038 — REN: 9/30/2025 — STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
INCREMENT 1 AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

PROPOSED OVERALL SITE PLAN

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: RT / JL
PROJECT MANAGER: TP
JOB NUMBER: 791

SHEET NUMBER
A1.00-1

PLOT DATE: 9/19/2025 5:36:09 PM

DSA **810**

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

Division of the State Architect (DSA) documents referenced within this publication are available on the DSA Forms or DSA Publications webpages.

To facilitate the Division of the State Architect's (DSA) fire and life safety plan review of project site conditions, DSA requires the design professional to provide the following information at time of project submittal for projects consisting of construction of a new campus, construction of new building(s), additions to existing buildings, and for site alternate design means for fire department emergency vehicle access, and fire suppression water supply.

Information associated with compliance items 1 through 3 below is to be provided for all project types indicated above. Information associated with items 4 through 7 is to be completed when an alternate means is utilized. Acknowledgement by the school district and signature from the Local Fire Authority (LFA) is only required when an alternate design means is being requested.

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

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

PROJECT INFORMATION	
School District/Owner:	Golden Plains Unified School District
Project Name/School:	Tranquillity High School Aquatic Center Modernization
Project Address:	6052 Juanche Ave, Tranquillity, CA 93668

FIRE & LIFE SAFETY INFORMATION				
1.	Has a fire hydrant flow test been performed within the past 12 months? *(If yes, provide a copy of the test data.)*	Yes ☑		No ☐
2.	Was the fire hydrant water flow test performed as part of this LFA review?	Yes ☑		No ☐
3.	Is the project located within a designated fire hazard severity zone (FHSZ) as established by Cal-Fire? *(If yes, indicate FHSZ classification below.)*	Yes ☐		No ☑
	Refer to the following website for FHSZ locations: Fire Hazard Severity Zones in State Responsibility Area	Moderate ☐	High ☐	Very High ☐
	Wildland Interface Area (WIFA) *(If any designations are checked, project design must meet the requirements of CBC Chapter 7A.)*			WIFA ☐

CONDITIONS:
1. KNOX BOX REQUIRED AT GATED ACCESS. GATES MUST PROVIDE A 16' OPENING.

CONDITION MEANS AND METHODS RESOLUTION		ALTERNATE ACCEPTED			
		Yes	No	N/A	N/R
4.	Emergency vehicle access roadways do not meet CFC requirements.			X	
4a.	**Acceptable Alternate:** Emergency vehicle and personnel access as proposed by the project architect is acceptable for providing fire suppression and protection of life and property.				
5.	**Fire Hydrants:** Number and spacing does not meet CFC requirements.				
5a.	**Acceptable Alternate:** Number of fire hydrants and spacing as proposed by the project architect is acceptable for fire suppression and protection of life and property.	X			
6.	**Fire Hydrants:** Water flow and pressure are less than CFC minimum.			X	
6a.	**Acceptable Alternate:** The available flow and pressure is acceptable for providing fire suppression and protection of life and property.				
7.	Location of fire department connection(s) serving fire sprinkler systems or standpipe systems does not meet CFC requirements.			X	
7a.	**Acceptable Alternate:** The location of fire department connection serving the fire sprinkler system and/or standpipe system is acceptable for providing fire suppression and protection of life and property.				

School District Acceptance of Acceptable Design Alternates

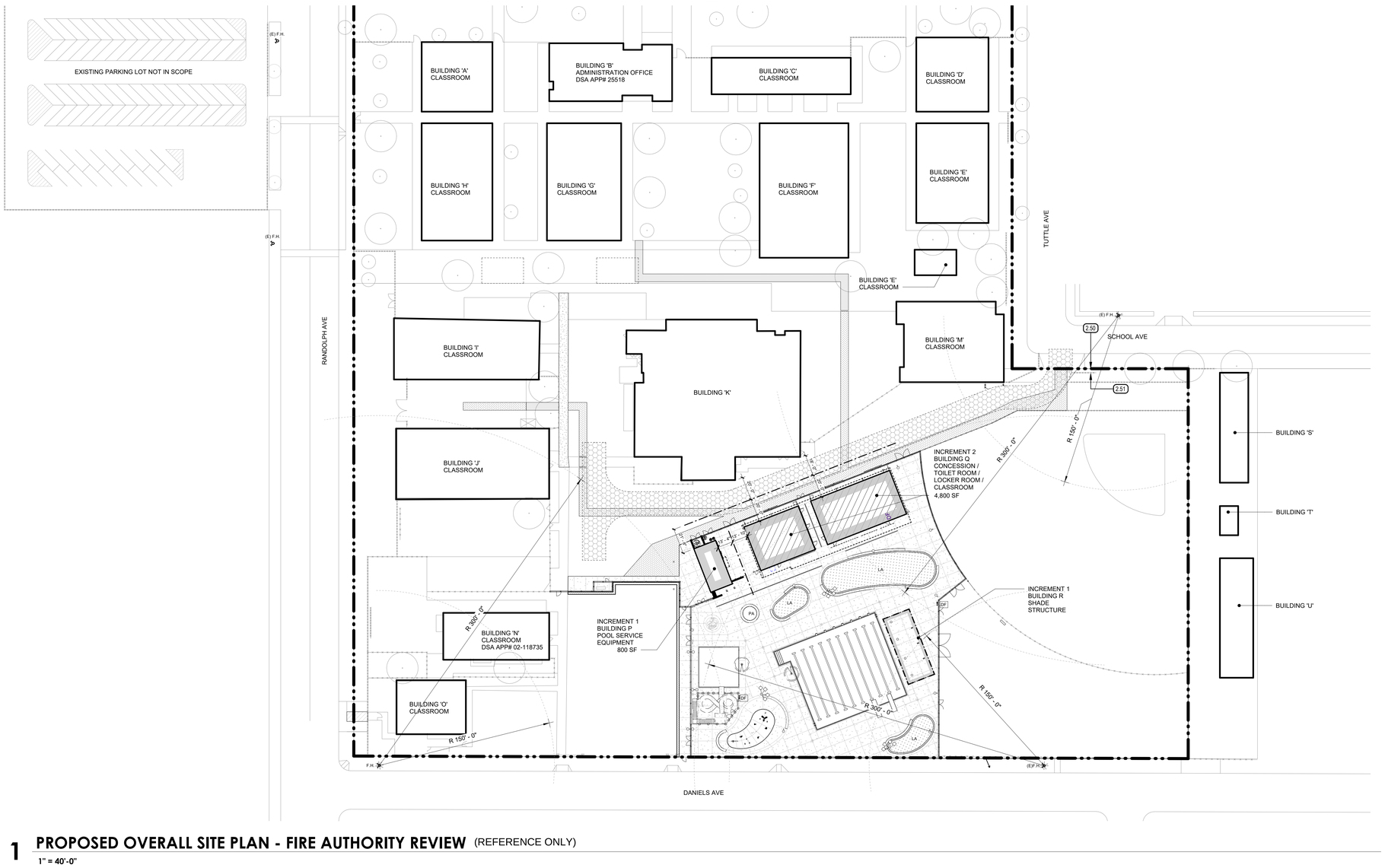
By signing this form, the school district acknowledges and accepts the proposed design as an alternative to California Building Code (CBC) and California Fire Code (CFC) minimum requirements, as indicated by one or more of the conditions indicated at items 4a, 5a, 6a or 7a, for providing fire and life safety protection of life and property.

Accepted by: Felipe Piedra Title: Superintendent

Signature: [signature] Date: 7/28/25

LOCAL FIRE AUTHORITY (LFA) INFORMATION	
LFA Agency Name:	Fresno County Fire Protection District
LFA Review Official:	Matt Tarr
Title:	PLANS EXAMINER — Work Phone: (559) 274-3925
Work Email:	fss.tarr@gmail.com

LFA Reviewer's Signature: [signature] Date: 4/7/25



NORTH

1 **PROPOSED OVERALL SITE PLAN - FIRE AUTHORITY REVIEW** (REFERENCE ONLY)
1" = 40'-0"

2.50 EXISTING FIRE DEPARTMENT KNOX BOX
2.51 EXISTING 20'-0" WIDE SLIDING CHAIN LINK GATE

LEGEND (XX.XX)

- 20'-0" MIN. WIDE FIRE LANE.
- SITE CONCRETE, SEE CIVIL AND AQUATICS
- PRE-MANUFACTURED SHADE STRUCTURE. SEE MANUFACTURES DRAWINGS
- PORTION OF EXISTING BUILDING INCLUDED IN SCOPE OF WORK. SEE ELECTRICAL
- EXISTING BUILDING NOT INCLUDED IN SCOPE OF WORK
- PROPOSED BUILDING P (INCREMENT 1)
- PROPOSED BUILDING Q (INCREMENT 2)
- LA — LANDSCAPE AREA, SEE LANDSCAPE
- EXISTING CHAIN LINK FENCE TO REMAIN
- DECORATIVE METAL FENCE. SEE CIVIL
- CHAIN LINK FENCE WITH MOWSTRIP. SEE CIVIL
- LIGHT POLE, SEE ELECTRICAL
- SURFACE MOUNTED LIGHT FIXTURE AT SHADE STRUCTURE, SEE ELECTRICAL
- (E)F.H. — FIRE HYDRANT, SEE CIVIL.
- PA — PLANTER AREA, SEE LANDSCAPE.
- PROPERTY LINE
- ASSUMED PROPERTY LINE
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- DF — ACCESSIBLE DRINKING FOUNTAIN. THIS DSA APPLICATION NUMBER AS PART OF INCREMENT 1
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LEGEND

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123309 INC: 1
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 9/30/2025

AGD ARCHITECTURE | DESIGN
ANDREW GOODWIN DESIGNS
1238 MONTEREY STREET
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REVISIONS

REV #	REV DATE	REV DESCRIPTION

SEAL

LICENSED ARCHITECT — ANTONIO PAVONE — C-39055 — REN. 9/30/2025 — STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
INCREMENT 1 AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

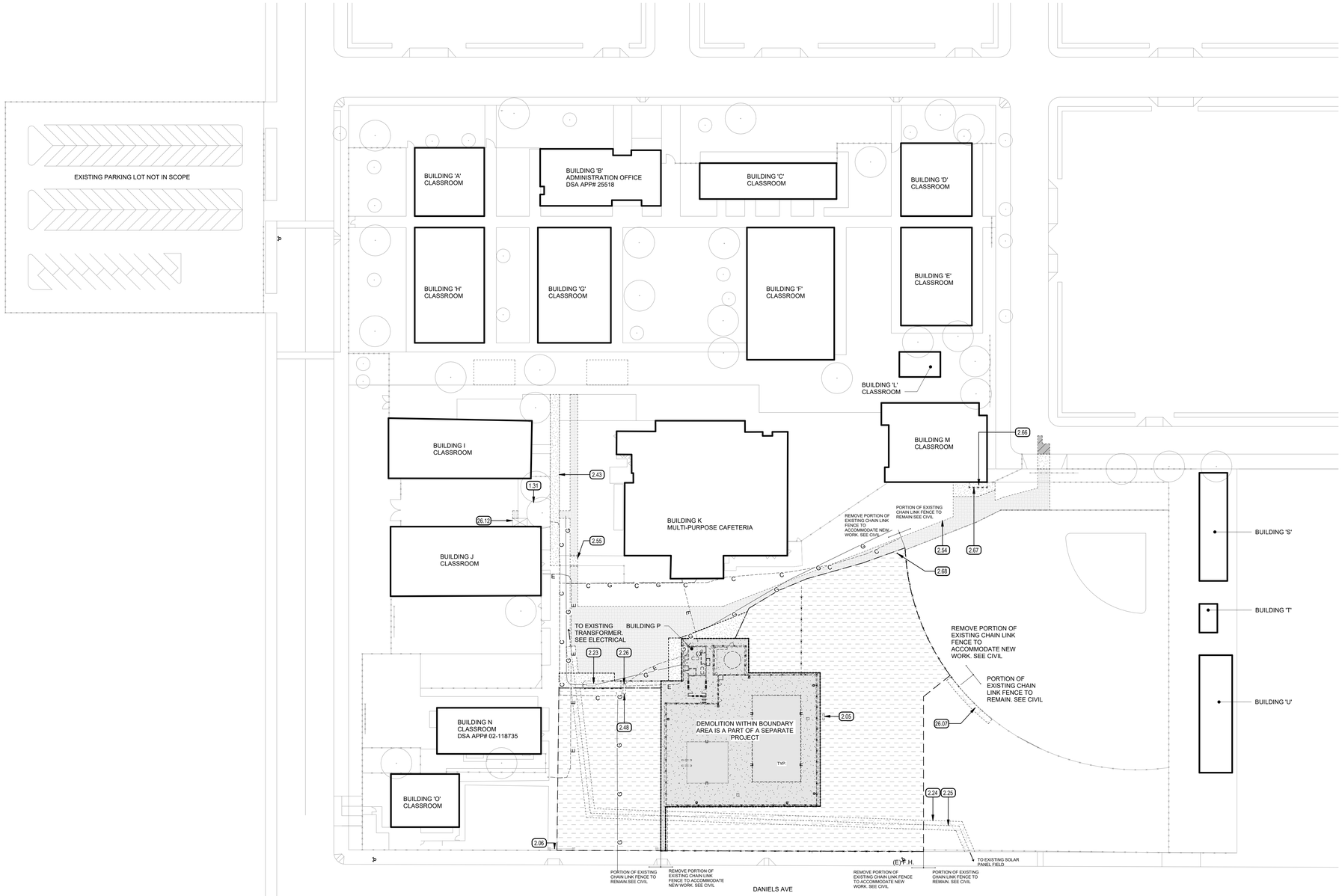
PROPOSED OVERALL SITE PLAN - LOCAL FIRE AUTHORITY REVIEW

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: RT / JL
PROJECT MANAGER: TP
JOB NUMBER: 791

SHEET NUMBER
A1.00F-1

PLOT DATE: 8/13/2025 3:22:34 PM



1 OVERALL DEMOLITION SITE PLAN

1" = 15'-0"

NORTH

1.31 SEE SHEET A1.00-1 AND ELECTRICAL FOR CONTINUATION.
2.05 REMOVE EXISTING SCOREBOARD AND SALVAGE TO OWNER
2.06 EXISTING GATE TO REMAIN
2.23 EXISTING GAS METER TO REMAIN
2.24 TRENCH FOR EXISTING SOLAR PANEL CONDUIT RELOCATION, TYP. SEE ELECTRICAL
2.25 REMOVE EXISTING SOLAR PANEL ELECTRICAL CONDUIT AND SALVAGE FOR REINSTALLATION, SEE ELECTRICAL.
2.26 CONTRACTOR SHALL DEMOLISH EXISTING ELECTRICAL AT EXISTING POOL EQUIPMENT BUILDING COMPLETE PER GENERAL DEMOLITION NOTES. REMOVE CABLE COMPLETE AND CAP CONDUITS IN NEW CHRISTY BOX LID LABELLED "ELECTRICAL". AT EXISTING MSB, LABEL REMOVED FEEDER CONNECTIONS AS "SPARE" AT BREAKERS FROM WHICH CONNECTIONS ARE REMOVED.
2.43 REMOVE EXISTING CONCRETE. SEE CIVIL
2.48 REMOVE EXISTING COMMUNICATION PANEL. CONTRACTOR SHALL DEMOLISH EXISTING CABLES AND CONDUIT PER GENERAL DEMOLITION NOTES. REMOVE CABLE COMPLETE AND CAP CONDUIT IN NEW CHRISTY #N30 PULL BOX LID LABELLED "COMMUNICATIONS" OUTSIDE OF DEMOLITION AREA/NEW WORK AREA
2.54 REMOVE PORTION OF EXISTING EARTH FOR TRENCHING TO ACCOMMODATE NEW UTILITY WORK, SEE ELECTRICAL AND CIVIL.
2.55 REMOVE PORTION OF EXISTING CONCRETE TO ACCOMMODATE NEW WORK, SEE ELECTRICAL.
2.66 REMOVE EXISTING BOOSTER PUMP AND SALVAGE FOR REINSTALLATION, SEE CIVIL AND LANDSCAPE.
2.67 REMOVE EXISTING CHAINLINK FENCING, SEE CIVIL.
2.68 EXISTING MUSCO LIGHT POLE TO REMAIN.
26.07 TRENCH FOR SCOREBOARD UTILITIES, SEE ELECTRICAL.
26.12 EXISTING ELECTRICAL MAIN SWITCH BOARD, SEE ELECTRICAL.

KEYNOTES (XX.XX)

- REMOVE PORTIION OF EXISTING ASPHALTIC CONCRETE, TO ACCOMMODATE NEW WORK SEE CIVIL.
- REMOVE EXISTING LANDSCAPE AND IRRIGATION TO ACCOMMODATE NEW WORK, SEE CIVIL & LANDSCAPE
- EXISTING BUILDING NOT INCLUDED IN SCOPE OF WORK
- REMOVE PORTION OF EXISTING CONCRETE WALK TO ACCOMMODATE NEW WORK, SEE CIVIL
- REMOVE PORTION OF EXISTING GRAVEL BASE AND EARTH TO ACCOMMODATE NEW WORK, SEE CIVIL
- EXISTING CHAIN LINK FENCE TO REMAIN
- REMOVE EXISTING CHAIN LINK FENCING, SEE CIVIL
- (E) F.H. EXISTING FIRE HYDRANT
- -E- REMOVE PORTION OF EXISTING BELOW GRADE ELECTRICAL WIRING AND CONDUIT
- -G- PORTIONS OF EXISTING GAS LINE TO REMAIN
- -C- REMOVE PORTION OF EXISTING BELOW GRADE COMMUNICATION WIRING AND CONDUIT

LEGEND

1. REFER TO CIVIL.
2. PROTECT EXISTING IMPROVEMENTS TO REMAIN.
3. PRIOR TO DEMOLITION SITE CONTRACTOR TO TRACE EXISTING SOLAR POWER CONDUIT TO VERIFY EXACT LOCATION AND DEPTH TO DETERMINE THE IMPACT OF EXISTING SOLAR CONDUIT INTERFERENCE WITH PROPOSED SCOPE OF WORK AND INFORM THE ARCHITECT.
4. CONTRACTOR SHALL FEILD VERIFY EXTENT OF ELECTRICAL DEMOLITION AND QUANTITIES OF ELECTRICAL TO BE REMOVED AS DICTATED BY THE REQUIREMENTS OF THE PROJECT.
5. REMOVAL SHALL INCLUDE WIRING, RACEWAY, BOXES, SWITCHES, LIGHT FIXTURES, ETC. AS INDICATED ON THE PLANS AND AS REQUIRED BY THESE DEMOLITION NOTES.
6. RACEWAYS ASSOCIATED WITH ELECTRICAL BEING DEMOLISHED WHICH ARE EXPOSED SHALL BE REMOVED.
7. WHERE REMOVAL OF EQUIPMENT OR WIRING IS INDICATED, IT SHALL INCLUDE ALL ASSOCIATED WIRING BACK TO LAST ACTIVE REMAINING OUTLET, DEVICE, FIXTURE OR PANEL.
8. ELECTRICAL CONTRACTOR SHALL INSURE THAT ALL REMAINING ACTIVE CIRCUITS, DEVICES, OUTLETS, LIGHT FIXTURES, ETC. HAVE NOT BEEN DISCONNECTED OR MADE INOPERATIVE DURING DEMOLITION. ELECTRICAL CONTRACTOR SHALL RESTORE ALL INTERRUPTED OR DISCONNECTED CIRCUITS TO OPERATION.
9. ELECTRICAL CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL REMOVED ELECTRICAL EQUIPMENT AND MATERIAL.
10. NO REMOVED EQUIPMENT OR MATERIAL SHALL BE REUSED AS PART OF NEW WORK, U.O.N.
11. EXISTING REMAINING CONCEALED RACEWAYS MAY BE REUSED FOR NEW WORK PROVIDED THEY MEET ALL REQUIREMENTS OF THE SPECIFICATION FOR NEW WORK.
12. EXISTING FLUSH OUTLETS MAY BE REUSED FOR NEW WORK PROVIDED THEY MEET ALL REQUIREMENTS OF THE SPECIFICATION FOR NEW WORK, MEET THE REQUIREMENTS OF THE CURRENT C.E.C. FOR VOLUME AND COINCIDE WITH LOCATION SHOWN FOR THE NEW WORK.
13. FLUSH OUTLET BOXES IN EXISTING WALLS TO REMAIN MAY BE ABANDONED IN PLACE. REMOVE DEVICES AND WIRING, PLUG OPENING AND PROVIDE AND INSTALL A BLANK DEVICE PLATE.
14. EXISTING WIRING SHOWN HAS BEEN TAKEN FROM OLD PLANS AND IS ASSUMED TO BE CORRECT. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ACTUAL CONDITIONS AND MAKE ADJUSTMENTS TO SUIT ACTUAL CONDITIONS AND TO MEET THE INTENT OF THE CONTRACT DOCUMENTS.
15. WHERE TELEPHONE, COMPUTER DATA, FIBER OPTICS, FIRE ALARM OR OTHER COMMUNICATIONS OUTLETS OR WIRING IS TO BE DEMOLISHED IT SHALL BE REMOVED BACK TO THE NEXT TERMINAL POINT. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH OWNER OR OWNER'S REPRESENTATIVE TO HAVE EQUIPMENT AND WIRING DESIGNATED FOR REMOVAL OR PRESERVATION PRIOR TO REMOVAL OF OUTLET BOXES, CONDUIT OR WIRING BY ELECTRICAL CONTRACTOR.
16. COORDINATE WITH OWNER PRIOR TO START OF DEMOLITION TO MINIMIZE POWER INTERRUPTIONS, WORK MAY HAVE TO OCCUR DURING NON-REGULAR BUSINESS HOURS. COORDINATE IN WRITING WITH OWNER ONE WEEK PRIOR TO PLANNED POWER INTERRUPTIONS.
17. BUILDINGS IMMEDIATELY ADJACENT TO DEMOLITION AREA WILL BE OCCUPIED CONDUCT DEMOLITION SO OPERATIONS OF OCCUPIED BUILDINGS WILL NOT BE DISRURPTED.
18. CONTRACTOR SHALL PROVIDE NOT LESS THAN 72 HOURS NOTICE OF ACTIVITIES THAT WILL AFFECT OPERATIONS OF ADJACENT OCCUPIED BUILDINGS.
19. CONTRACTOR SHALL MAINTAIN ACCESS TO EXISTING WALKWAYS EXITS, AND OTHER FACILITIES USED BY OCCUPANTS OF ADJACENT BUILDINGS.
20. DO NOT CLOSE OR OBSTRUCT WALKWAYS, EXITS, OR OTHER FACILITIES USED BY OCCUPANTS OF ADJACENT BUILDINGS WITHOUT WRITTEN PERMISSION FROM AUTHORITIES HAVING JURISDICTION
21. CONTRACTOR SHALL WITHIN THE PROXIMITY OF DEMOLITION WORK VERIFY WITH OWNER IF THERE ARE ANY ITEMS THAT NEED TO BE REMOVED AND SALVAGE PRIOR TO DEMOLITION.
22. IT IS EXPECTED THAT HAZARDOUS MATERIALS WILL NOT BE ENCOUNTERED IN THE WORK
23. IF MATERIALS SUSPECTED OF CONTAINING HAZARDOUS MATERIALS ARE ENCOUNTERED, DO NOT DISTURB AND IMMEDIATELY NOTIFY ARCHITECT AND OWNER. HAZARDOUS MATERIALS WILL BE REMOVED BY OWNER UNDER A SPARATE CONTRACT.
24. CONTRACTOR SHALL ARRANGE DEMOLITION SCHEDULE SO AS NOT TO INTERFERE WITH OWNERS ON-SITE OPERATIONS OF ADJACENT OCCUPIED BUILDINGS.
25. CONTRACTOR SHALL VERIFY THAT UTILITIES HAVE BEEN DISCONNECTED AND CAPPED BEFORE STARTING DEMOLITION OPERATIONS.
26. INVENTORY AND RECORD THE CONDITIONS OF ITEMS TO BE REMOVED AND SALVAGED. PROVIDE PHOTOGRAPHS OR VIDEOS OF CONDITIONS THAT MIGHT BE MISCONTRUED AS DAMAGE CAUSED BY SALVAGE OPERATIONS.
27. CONTRACTOR SHALL PROVIDE AND MAINTAIN INTERIOR AND EXTERIOR SHORING BRACING OR STRUCTURAL AS NEEDED TO SUPPORT PRESERVE STABILITY AND PREVENT UNEXPECTED MOVEMENT OR COLLAPSE OF CONSTRUCTION BEING DEMOLISHED.
28. CONTRACTOR SHALL CONDUCT BUILDING DEMOLITION AND DEBRIS-REMOVAL OPERATIONS TO ENSURE MINIMUM INTERFERANCE WITH ROADS, STREETS, WALKS, WALKWAYS, AND OTHER ADJACENT OCCUPIED AND USED FACILITIES.
29. REMOVE BELOW GRADE CONSTRUCTION INCLUDING BASEMENTS, VAULTS, FOUNDATION WALLS AND FOOTINGS COMPLETELY.
30. CONTRACTOR SHALL LOCATE ALL EXISTING UTILITY POINTS OF CONNECTION PRIOR TO START OF WORK

GENERAL NOTES

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APP: 02-123309 INC: 1
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DATE: 9/30/2025

AGD ARCHITECTURE | DESIGN
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REVISIONS

REV # | REV DATE | REV DESCRIPTION

SEAL

LICENSED ARCHITECT
ANTONIO PAVONE
C-39058
REN: 9/30/2025
STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
INCREMENT 1 AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

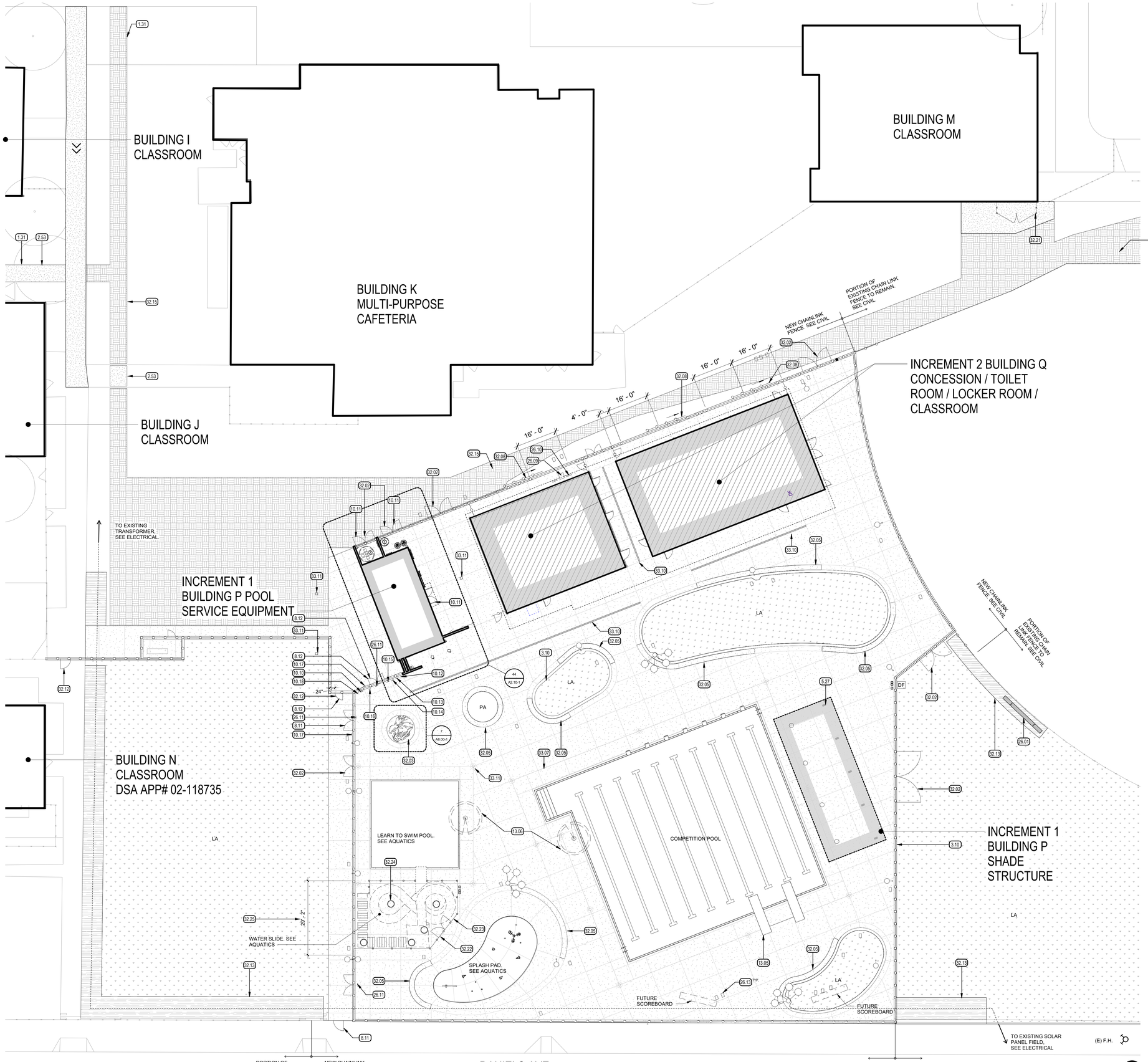
OVERALL DEMOLITION SITE PLAN

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: RT / JL
PROJECT MANAGER: TP
JOB NUMBER: 791

SHEET NUMBER
A1.10-1

PLOT DATE: 9/19/2025 5:36:11 PM



1 ENLARGED PROPOSED SITE PLAN

1" = 15'-0"

1.31 SEE SHEET A1.00-1 AND ELECTRICAL FOR CONTINUATION.
1.32 SEE SHEET A1.00-1 AND CIVIL FOR CONTINUATION.
2.53 PATCH EXISTING CONCRETE TO MATCH EXISTING ADJACENT CONDITIONS.
3.10 CONCRETE MOW STRIP, SEE CIVIL, TYP.
5.27 SHADE STRUCTURE COLUMN, SEE MANUFACTURERS DRAWINGS.
8.11 ACCESSIBLE CHAINLINK GATE, SEE CIVIL.
8.12 PROVIDE PANIC HARDWARE, SEE CIVIL.
10.10 POOL USER CAPACITY SIGNAGE. SEE AQUATICS.
10.11 CHEMICAL HAZARD SIGNAGE. SEE AQUATICS.
10.12 EMERGENCY TELEPHONE NUMBER. SEE AQUATICS.
10.13 ILLUSTRATED CPR DIAGRAM SIGNAGE. SEE AQUATICS.
10.14 NO LIFEGUARD WARNING SIGNAGE. SEE AQUATICS.
10.15 NO DIVING SIGNAGE. SEE AQUATICS.
10.16 KEEP CLOSED SIGNAGE. SEE AQUATICS.
10.17 DIARRHEA SIGNAGE. SEE AQUATICS.
10.18 FIRE DEPARTMENT SIGNAGE. SEE AQUATICS.
13.05 DIVING PLATFORMS. SEE AQUATICS
13.06 ACCESSIBLE LIFT. SEE AQUATICS
26.01 PRE-CHECKED SCOREBOARD. SEE SCOREBOARD MANUFACTURER AND ELECTRICAL.
26.09 TRANSFORMER, SEE ELECTRICAL
26.10 PANEL, SEE ELECTRICAL, TYP.
26.11 SELF-ILLUMINATING EXIT SIGN, SEE ELECTRICAL.
26.13 PULL BOX, SEE ELECTRICAL
32.02 DOUBLE CHAIN LINK GATE, SEE CIVIL
32.03 TIGER LOGO PAINTED ONTO CONCRETE. SEE DETAIL 7 / A8.00-1
32.05 CONCRETE BENCH. SEE DETAILS / A8.00-1 & 2 / A8.00-1
32.08 SLIDING CHAIN LINK GATE, SEE CIVIL
32.12 3'-0" ACCESSIBLE CHAIN LINK GATE. SEE CIVIL.
32.13 RECOMPACT SOIL AND REPAIR LANDSCAPE/IRRIGATION TO MATCH EXISTING ADJACENT CONDITIONS. SEE LANDSCAPE
32.15 RECOMPACT SOIL AND GRAVEL PAVEMENT TO MATCH EXISTING ADJACENT CONDITIONS. SEE LANDSCAPE
32.21 CHAIN LINK FENCING & GATES, SEE CIVIL
32.22 DECORATIVE METAL GATE, SEE CIVIL.
32.23 DECORATIVE METAL FENCE, SEE CIVIL.
32.24 SLIDE STRUCTURAL COLUMN.
32.25 SECTION TALL CHAINLINK FENCING, SEE CIVIL.
33.07 SLOT DRAIN. SEE AQUATICS
33.10 TRENCH DRAINS. SEE CIVIL.
33.11 DRAIN INLET, SEE AQUATICS AND CIVIL, TYP.

KEYNOTES (XX.XX)

- SITE CONCRETE, SEE CIVIL & AQUATICS
- PROPOSED PRE-MANUFACTURED SHADE STRUCTURE. SEE MANUFACTURES DRAWINGS
- EXISTING BUILDING NOT INCLUDED IN SCOPE OF WORK
- PROPOSED BUILDING P (INCREMENT 1)
- PROPOSED BUILDING Q (INCREMENT 2)
- LA — LANDSCAPE AREA, SEE LANDSCAPE
- XXX — ROOM IDENTIFICATION SIGNAGE, SEE 6 / A8.00-1
- CHAIN LINK FENCE WITH CLIMB RESISTANT FENCE FABRIC. SEE CIVIL
- 6'-0" TALL DECORATIVE METAL FENCE
- LIGHT POLE, SEE ELECTRICAL
- SURFACE MOUNTED LIGHT FIXTURE AT SHADE STRUCTURE, SEE ELECTRICAL
- (E)F.H. — FIRE HYDRANT, SEE CIVIL.
- PA — PLANTER AREA, SEE LANDSCAPE.
- ACCESSIBLE ROUTE (2022 C.B.C. SECTION 11B - 206)
- G — ACCESSIBLE GENDER NEUTRAL STUDENT TOILET DSA APPLICATION NUMBER 02-118735
- S — ACCESSIBLE GENDER NEUTRAL STAFF TOILET ROOM DSA APPLICATION NUMBER 02-118735
- DF — ACCESSIBLE DRINKING FOUNTAIN. THIS DSA APPLICATION NUMBER AS PART OF INCREMENT 1
- M2 — ACCESSIBLE MENS TOILET ROOM. THIS DSA APPLICATION NUMBER AS PART OF INCREMENT 2
- W2 — ACCESSIBLE WOMENS TOILET ROOM. THIS DSA APPLICATION NUMBER AS PART OF INCREMENT 2
- S2 — ACCESSIBLE GENDER NEUTRAL STAFF TOILET ROOM THIS DSA APPLICATION NUMBER AS PART OF INCREMENT 2

THE ACCESSIBLE ROUTE, AS DEFINED IN THE CALIFORNIA BUILDING CODE, IS A CONTINUOUS UNOBSTRUCTED PATH CONNECTING ACCESSIBLE ELEMENTS AND SPACES OF AN ACCESSIBLE SITE, BUILDING OR FACILITY THAT CAN BE NEGOTIATED BY A PERSON WITH A DISABILITY USING A WHEELCHAIR, AND THAT IS ALSO SAFE FOR AND USABLE BY PERSONS WITH OTHER DISABILITIES. INTERIOR ACCESSIBLE ROUTES MAY INCLUDE CORRIDORS, HALLWAYS, FLOORS, RAMPS, ELEVATORS, AND LIFTS. EXTERIOR ACCESSIBLE ROUTES MAY INCLUDE PARKING ACCESS AISLES, CURB RAMPS, CROSSWALKS AT VEHICULAR WAYS, WALKS, RAMPS AND LIFTS. INTERIOR AND EXTERIOR ACCESSIBLE ROUTES SHALL COMPLY WITH CBC CHAPTER 11B. ACCESSIBLE ROUTES, COMMON PATH OF TRAVEL ITEMS INCLUDE: DRINKING FOUNTAINS SERVING THE AREA OF ALTERATION, PUBLIC TELEPHONES SERVING THE AREA OF ALTERATION, EXTERIOR OR INTERIOR SIGNS ALONG THE PATH OF TRAVEL. ACCESSIBLE ROUTE COMPONENTS, WALKING SURFACES DIMENSIONS, RUNNING SLOPE OF WALKING SURFACE ARE NOT TO EXCEED 1:20 SLOPE, RUNNING SLOPE OF RAMPS ARE NOT TO EXCEED 1:12 SLOPE, CROSS SLOPE OF WALKS, RAMPS AND LANDINGS ARE NOT TO EXCEED 1:48, VERTICAL CHANGES IN LEVEL ARE NOT TO EXCEED 1/4", OPENING IN DRAINS AND GRATINGS ARE NOT TO EXCEED 1/2" IN PREDOMINANT DIRECTION OF TRAVEL, PROTRUDING OBJECTS AND OVERHEAD OBSTRUCTIONS ARE TO HAVE 80" MINIMUM HEAD CLEARANCE AND ARE NOT TO PROJECT MORE THAN 4" FROM WALLS WITHIN A 27" AND 80" RANGE, SITE ARRIVAL POINTS, PARKING LOTS, BUS STOPS, PASSENGER DROP-OFF AND LOADING ZONES.

DESIGN PROFESSIONAL IN CHARGE STATEMENT:

- THE P.O.T. IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS MEETS THE REQUIREMENTS OF THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE (CBC) ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS.
- AS PART OF THE DESIGN OF THIS PROJECT, THE P.O.T. WAS EXAMINED AND ANY ELEMENTS, COMPONENTS, OR PORTIONS OF THE P.O.T. THAT WERE DETERMINED TO BE NONCOMPLIANT WITH THE CBC HAVE BEEN IDENTIFIED AND THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS, AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS.
- ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T. THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE INDICATED IN THESE CONSTRUCTION DOCUMENTS.
- DURING CONSTRUCTION, IF P.O.T. ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CBC COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY ITEMS SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.
- ITS ADVISABLE TO AVOID DESIGN REQUIREMENTS THAT ARE AT OR NEAR DIMENSIONAL THRESHOLDS. CONSTRUCTION TOLERANCES MAY BE USED WHEN EVALUATING THE COMPLIANCE OF EXISTING PATH OF TRAVEL ELEMENTS PER DSA IR 11B-8 'USE OF PREDETERMINED CONSTRUCTION TOLERANCE GUIDELINES FOR ACCESSIBILITY

LEGEND

A. THE CONTRACTOR SHALL ACCEPT THE SITE IN ITS PRESENT CONDITION & DEMOLISH AND/OR REMOVE FROM THE AREA OF THE PROJECT ALL STRUCTURES, BOTH SURFACE & SUBSURFACE, TREES, BRUSH, ROOTS, DEBRIS, ORGANIC MATTER, & ALL OTHER MATTER DETERMINED BY THE INSPECTOR TO BE DETRIMENTAL. SUCH MATERIAL SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR.
B. EXCAVATIONS SHALL BE ADEQUATELY SHORED, BRACED & SHEETED SO THAT THE EARTH WILL NOT SLIDE OR SETTLE & SO THAT ALL EXISTING IMPROVEMENTS OF ANY KIND WILL BE FULLY PROTECTED FROM DAMAGE. WHERE THE EXCAVATION FOR A CONDUIT TRENCH, AND/OR STRUCTURE IS FIVE FEET OR MORE IN DEPTH, THE CONTRACTOR SHALL PROVIDE ADEQUATE SHEETING, WHICH SHALL CONFORM TO THE APPLICABLE CONSTRUCTION SAFETY ORDERS OF THE DIVISION OF INDUSTRIAL SAFETY OF THE STATE OF CALIFORNIA. THE CONTRACTOR SHALL ALWAYS COMPLY WITH OSHA REQUIREMENTS.
C. FINISH GRADE SHALL HAVE A 1.5% SLOPE AWAY FROM THE BLDG. FOR A DISTANCE NOT LESS THAN 5'-0" FROM THE BLDG.
D. UPON COMPLETION OF CONSTRUCTION, THE LOCAL FIRE DEPARTMENT AND/OR EMERGENCY COMMUNICATIONS AUTHORITY WILL BE CONTACTED TO OBTAIN DESIGN & EQUIPMENT SPECIFICATIONS, AND TESTING AND ACCEPTANCE CRITERIA FOR EMERGENCY RESPONDER RADIO COVERAGE (ERRC) PER CFC 510. UPON COMPLETION COPIES OF THE APPROVED PLANS, EQUIPMENT DATA SHEETS AND PROOF OF TESTING AND ACCEPTANCE DOCUMENTATION SHALL BE PROVIDED TO THE SCHOOL DISTRICT.
E. EXTERIOR CONC. LANDINGS AT DOORS SHALL NOT BE MORE THAN 1/2 INCH LOWER THAN DOORWAY THRESHOLD WITH 1/4 INCH PER FOOT SLOPE MAX.
F. SEE CIVIL FOR A.C. & CONC. PAVING SECTIONS, AND CURB DETAILS.
G. REFER TO CIVIL, AQUATICS, STRUCTURAL, LANDSCAPE, PLUMBING & ELECTRICAL FOR UTILITY INFORMATION. CONTRACTOR TO COORDINATE ALL TRADES TO MAINTAIN PROPER CLEARANCES & AVOID CONFLICTS.
H. FOR SCORELINE AND CONCRETE BENCH DIMENSIONING, SEE SHEETS A1.12-1, A1.13-1, A1.14-1, A1.15-1 & A1.16-1
I. ALL DIMENSIONS SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
J. PROTECT EXISTING IMPROVEMENTS TO REMAIN

GENERAL NOTES

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AGD
ARCHITECTURE | DESIGN
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REV #	REV DATE	REV DESCRIPTION

SEAL

LICENSED ARCHITECT
ANTONIO PAVONE
C-39028
REN: 9/30/2025
STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
INCREMENT 1 AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

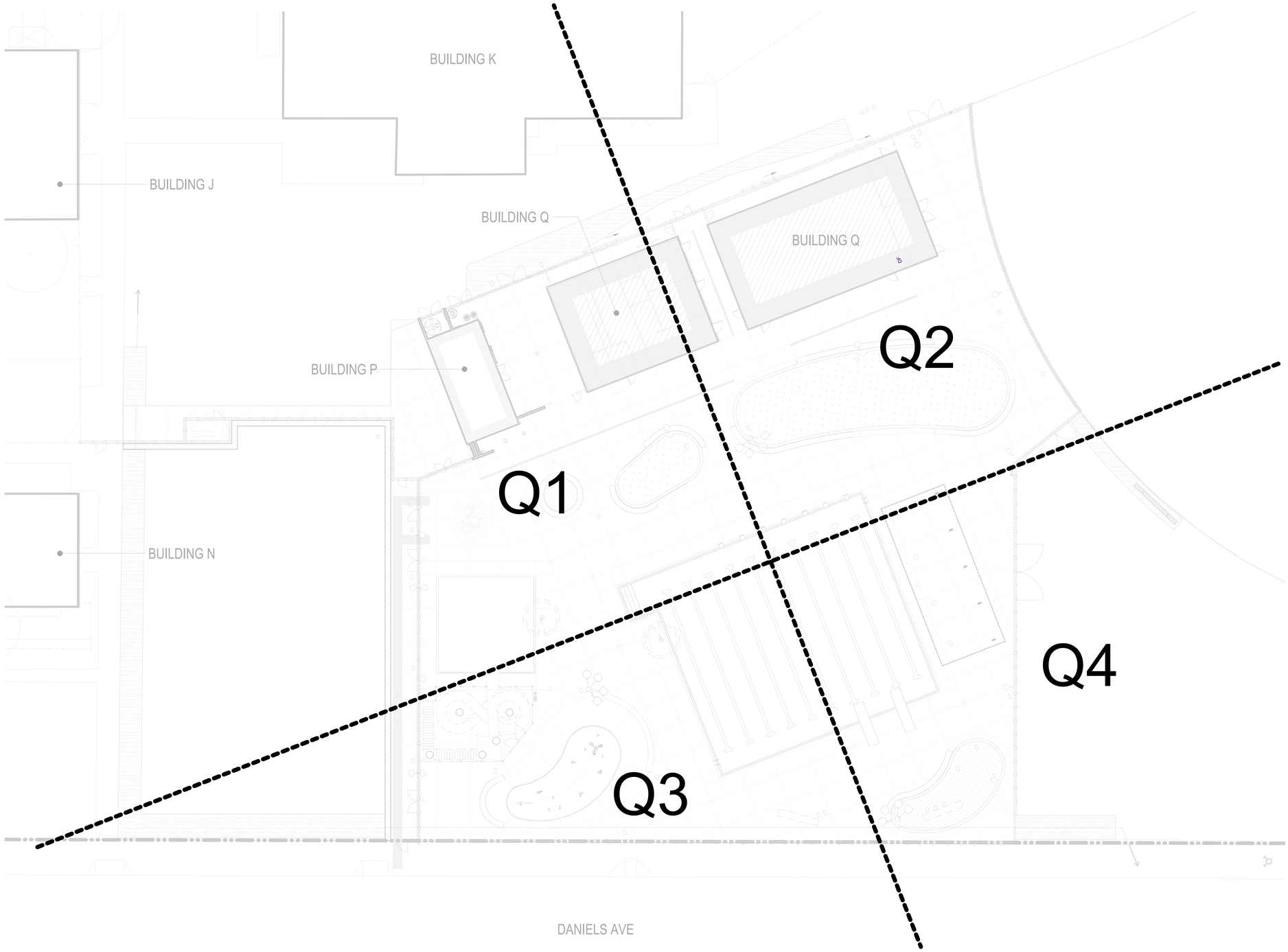
ENLARGED PROPOSED SITE PLAN

PHASE DESCRIPTION
100% CD - DSA APPROVAL
INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: RT / JL
PROJECT MANAGER: TP
JOB NUMBER: 791

SHEET NUMBER
A1.11-1

PLOT DATE: 9/19/2025 5:36:14 PM



1 **ENLARGED SCORELINE QUADRANT MAP**

1" = 15'-0"

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C-39028
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STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
INCREMENT 1 AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

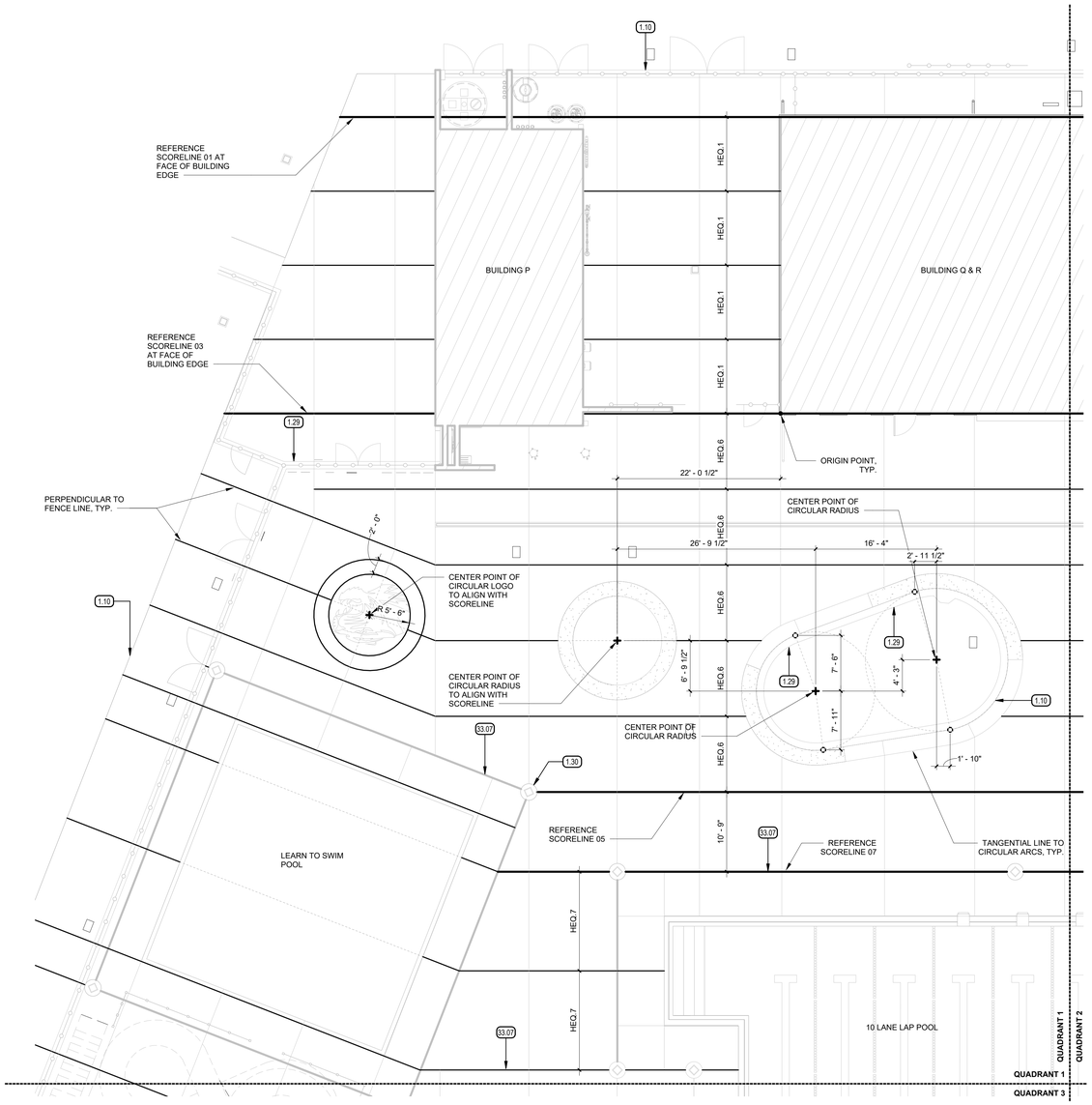
ENLARGED SCORELINE QUADRANT MAP

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: RT / JL
PROJECT MANAGER: TP
JOB NUMBER: 791

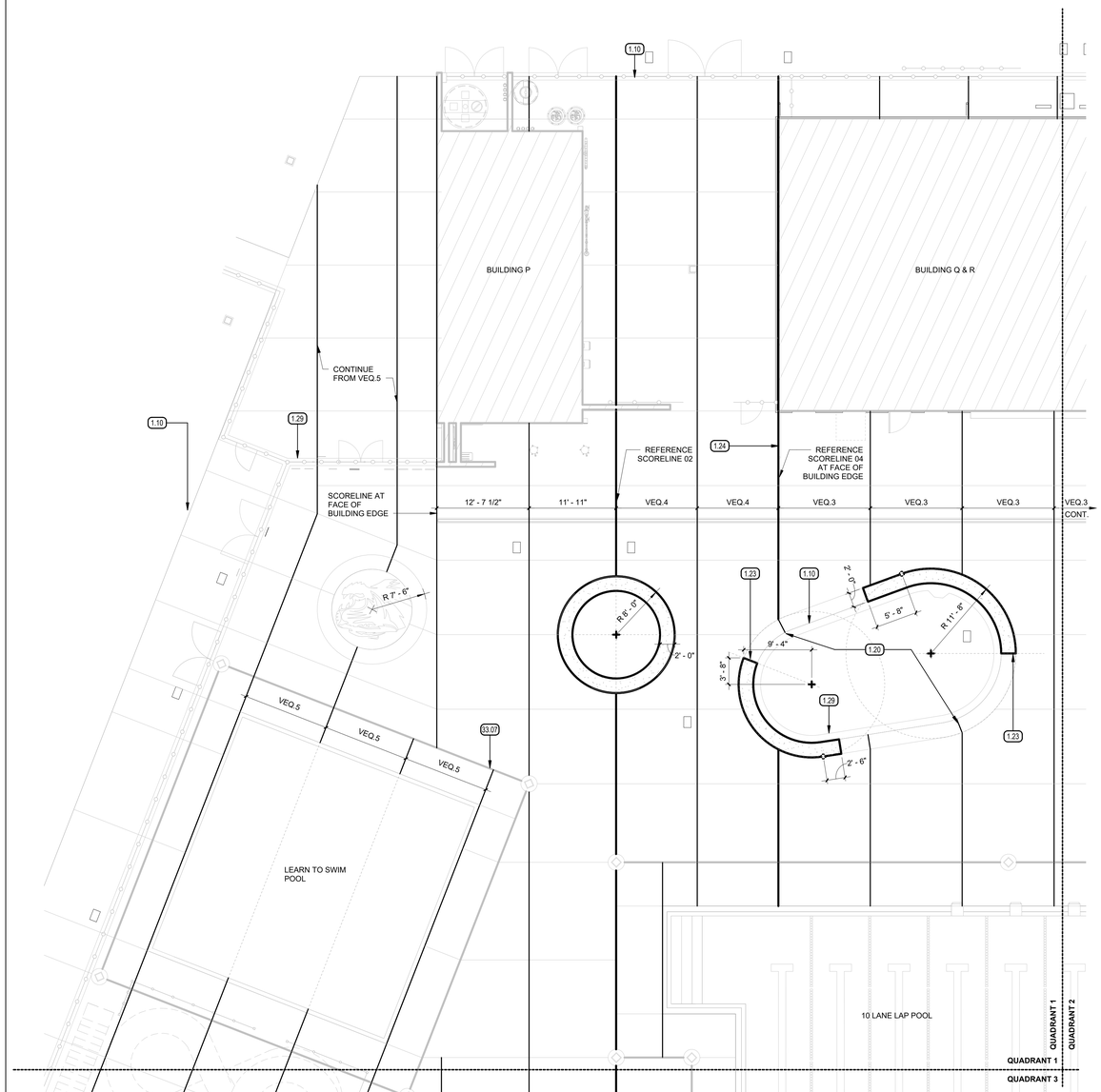
SHEET NUMBER
A1.12-1

PLOT DATE: 9/19/2025 5:36:17 PM



1 QUADRANT 1 HORIZONTAL SCORELINE AND CONCRETE EDGE DIMENSIONS

1/8" = 1'-0"



2 QUADRANT 1 VERTICAL SCORELINE AND CONCRETE BENCH DIMENSIONS

1/8" = 1'-0"

KEYNOTES (xx.xx)

1.10	EDGE OF CONCRETE
1.20	PERPENDICULAR TO CURVES, TYP.
1.23	END OF BENCH TO ALIGN WITH CENTER POINT OF RADIUS
1.24	ORIGIN LINE AT FACE OF BUILDING EDGE.
1.29	EDGE OF MOWSTRIP, SEE CIVIL.
1.30	AREA DRAIN, SEE AQUATICS, TYP.
33.07	SLOT DRAIN. SEE AQUATICS

LEGEND

◇	TANGENT POINT FOR ARC & LINE. TYP.
HEQ.1	EQUALLY SPACED SCORELINES BETWEEN REFERENCE SCORELINE 01 & REFERENCE SCORELINE 03
VEQ.3	EQUALLY SPACED SCORELINES BETWEEN REFERENCE SCORELINE 04 & REFERENCE SCORELINE 06. SEE 2 / A1.14-1
VEQ.4	EQUALLY SPACED SCORELINES BETWEEN REFERENCE SCORELINE 02 & REFERENCE SCORELINE 04
VEQ.5	EQUALLY SPACED SCORELINES BETWEEN 2 LEARN-TO-SWIM POOL EDGES. SEE 2 / A1.15-1
HEQ.6	EQUALLY SPACED SCORELINES BETWEEN REFERENCE SCORELINE 03 & REFERENCE SCORELINE 05
HEQ.7	EQUALLY SPACED SCORELINES BETWEEN 2 SLOT DRAIN LINES. SEE AQUATICS

GENERAL NOTES

A. SEE ADDITIONAL QUADRANT PLANS FOR CONTINUATION OF SCORELINE DOCUMENTATION

B. CENTER POINTS OF RADIUS ON VERTICAL SCORELINE AND CONCRETE BENCH DIMENSIONS MATCH THE LOCATION OF THE CENTER POINTS OF RADIUS ON HORIZONTAL SCORELINE AND CONCRETE EDGE DIMENSIONS DRAWINGS

C. FOR APPLICATION OF CONCRETE JOINT TYPE, SEE CIVIL

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SEAL

LICENSED ARCHITECT
ANTONIO PAVONE
C-39038
REN: 9/30/2025
STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
INCREMENT 1 AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

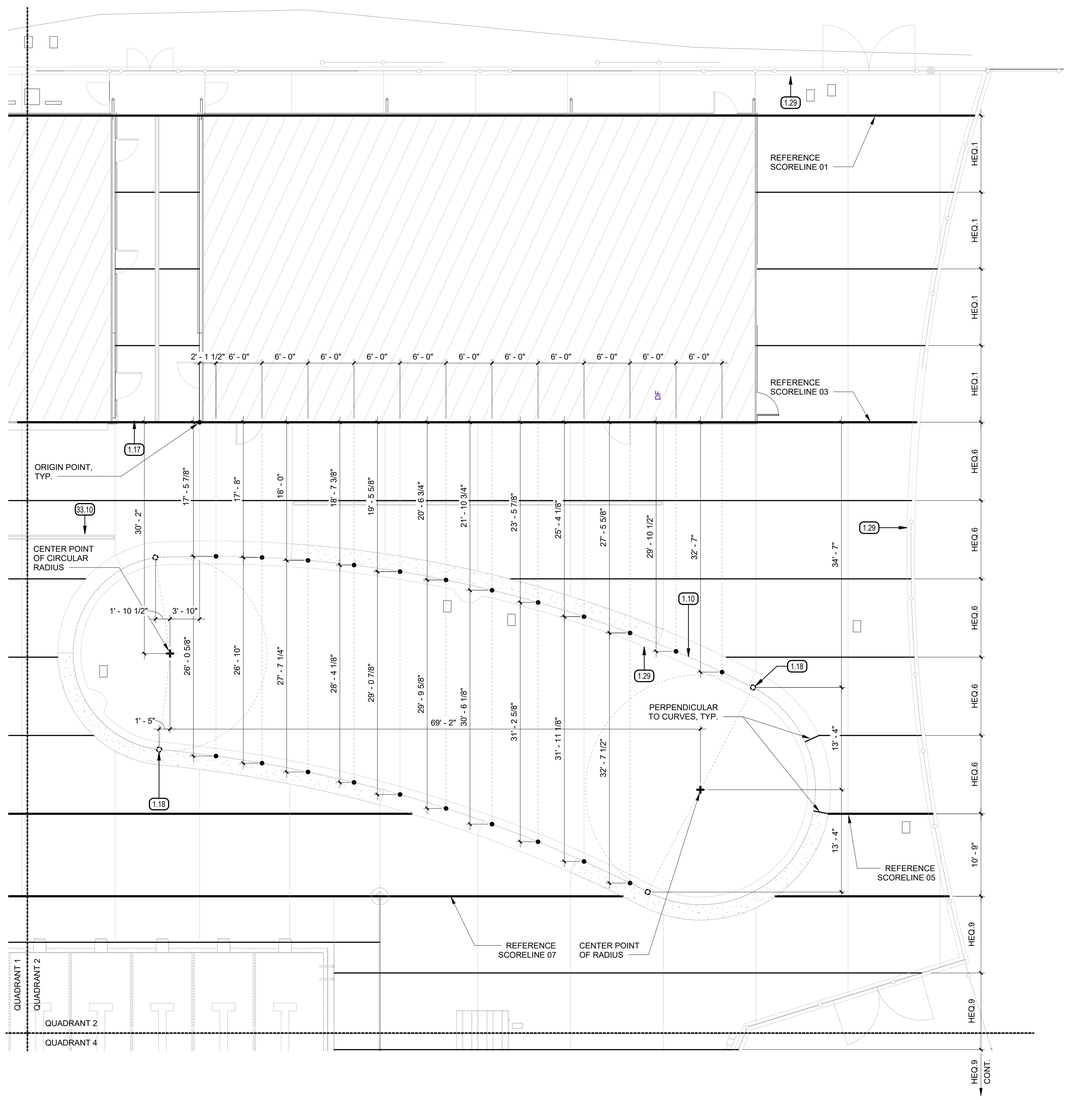
SCORELINE DIMENSION QUADRANT 1

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: RT / JL
PROJECT MANAGER: TP
JOB NUMBER: 791

SHEET NUMBER
A1.13-1

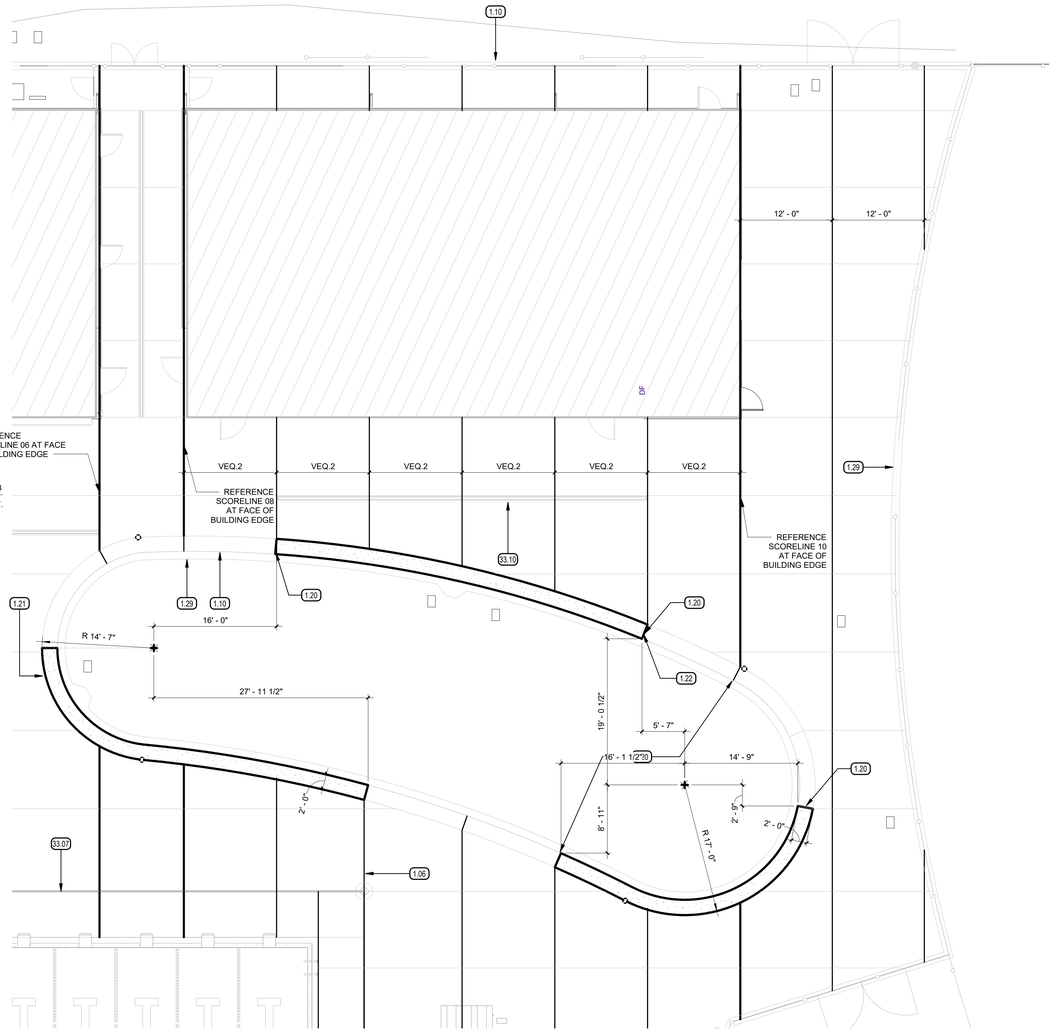
PLOT DATE: 9/19/2025 5:36:18 PM



NORTH

1 QUADRANT 2 HORIZONTAL SCORELINE AND CONCRETE EDGE DIMENSIONS

1/8" = 1'-0"



NORTH

2 QUADRANT 2 VERTICAL SCORELINE AND CONCRETE BENCH DIMENSIONS

1/8" = 1'-0"

KEYNOTES (xx.xx)

1.06	ALIGN WITH POOL SLOT DRAIN. SEE AQUATICS
1.10	EDGE OF CONCRETE
1.17	ORIGIN LINE AT FACE OF BUILDING EDGE FOR PERPENDICULAR DIMENSIONS FOR EDGE OF CONCRETE ARC.
1.18	TANGENT POINT FOR ARC AND LINE. TYP, SEE
1.20	PERPENDICULAR TO CURVES, TYP.
1.21	CONCRETE BENCH OUTER RADIUS TO ALIGN WITH EDGE OF CONCRETE RADIUS, SEE
1.22	END OF BENCH TO ALIGN WITH CONCRETE SCORELINE
1.29	EDGE OF MOWSTRIP, SEE CIVIL.
33.07	SLOT DRAIN. SEE AQUATICS
33.10	TRENCH DRAINS. SEE CIVIL.

LEGEND

HEQ.1	EQUALLY SPACED SCORELINES BETWEEN REFERENCE SCORELINE 01 & REFERENCE SCORELINE 03
VEQ.2	EQUALLY SPACED SCORELINES BETWEEN REFERENCE SCORELINE 08 & REFERENCE SCORELINE 10. SEE 2 / A1.16-1
VEQ.3	EQUALLY SPACED SCORELINES BETWEEN REFERENCE SCORELINE 04 & REFERENCE SCORELINE 06. SEE 2 / A1.13-1
HEQ.6	EQUALLY SPACED SCORELINES BETWEEN REFERENCE SCORELINE 03 & REFERENCE SCORELINE 05
HEQ.9	10' - 0" EQUALLY SPACED HORIZONTAL SCORELINES STARTED AT REFERENCE SCORELINE 07. SEE 1 / A1.16-1

GENERAL NOTES

A. SEE ADDITIONAL QUADRANT PLANS FOR CONTINUATION OF SCORELINE DOCUMENTATION

B. CENTER POINTS OF RADIUS ON VERTICAL SCORELINE AND CONCRETE BENCH DIMENSIONS MATCH THE LOCATION OF THE CENTER POINTS OF RADIUS ON HORIZONTAL SCORELINE AND CONCRETE EDGE DIMENSIONS DRAWINGS

C. FOR APPLICATION OF CONCRETE JOINT TYPE, SEE CIVIL

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LICENSED ARCHITECT
ANTONIO PAVONE
C-39258
REN: 9/30/2025
STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
INCREMENT 1 AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

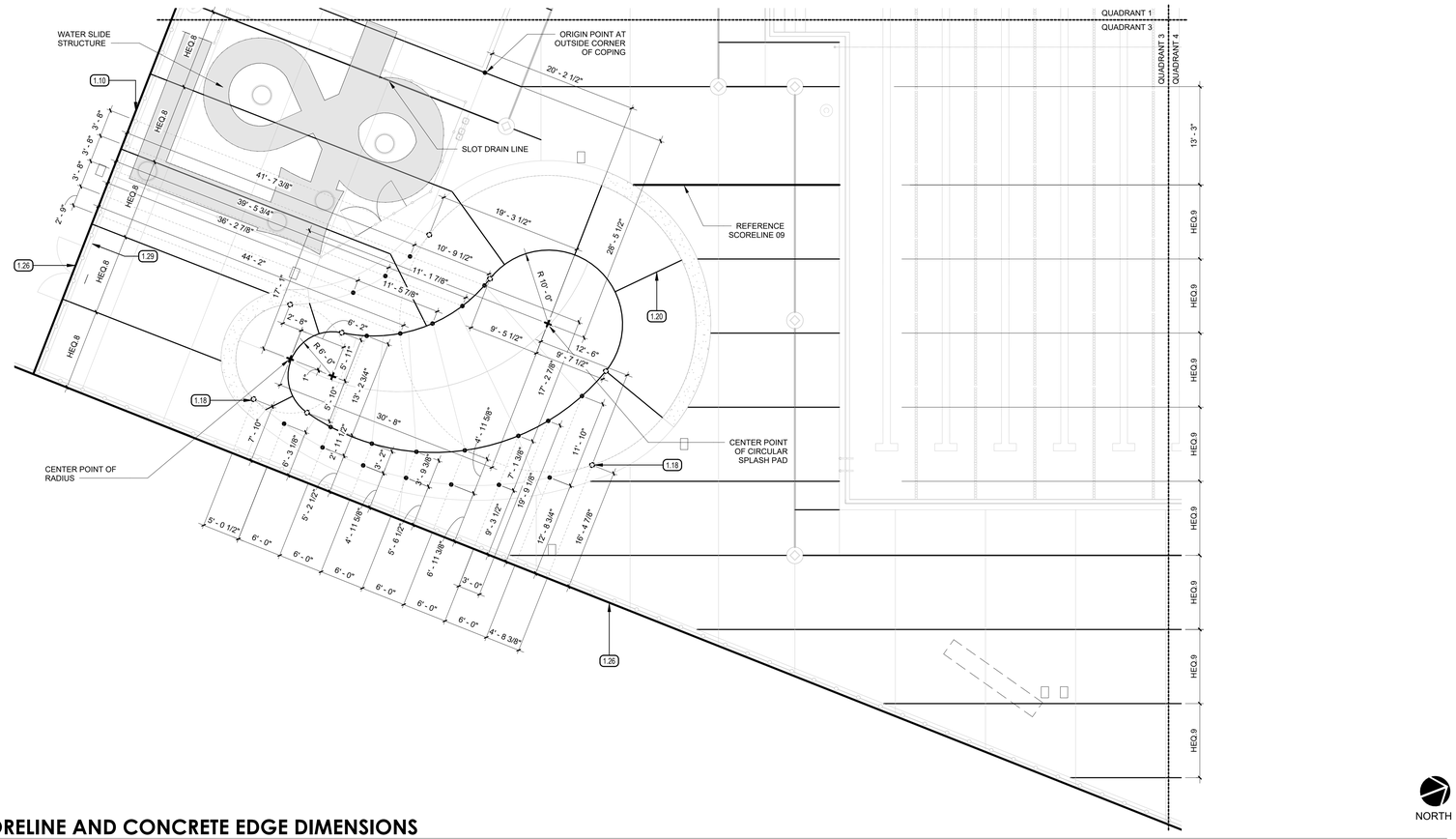
SCORELINE DIMENSION QUADRANT 2

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: RT / JL
PROJECT MANAGER: TP
JOB NUMBER: 791

SHEET NUMBER
A1.14-1

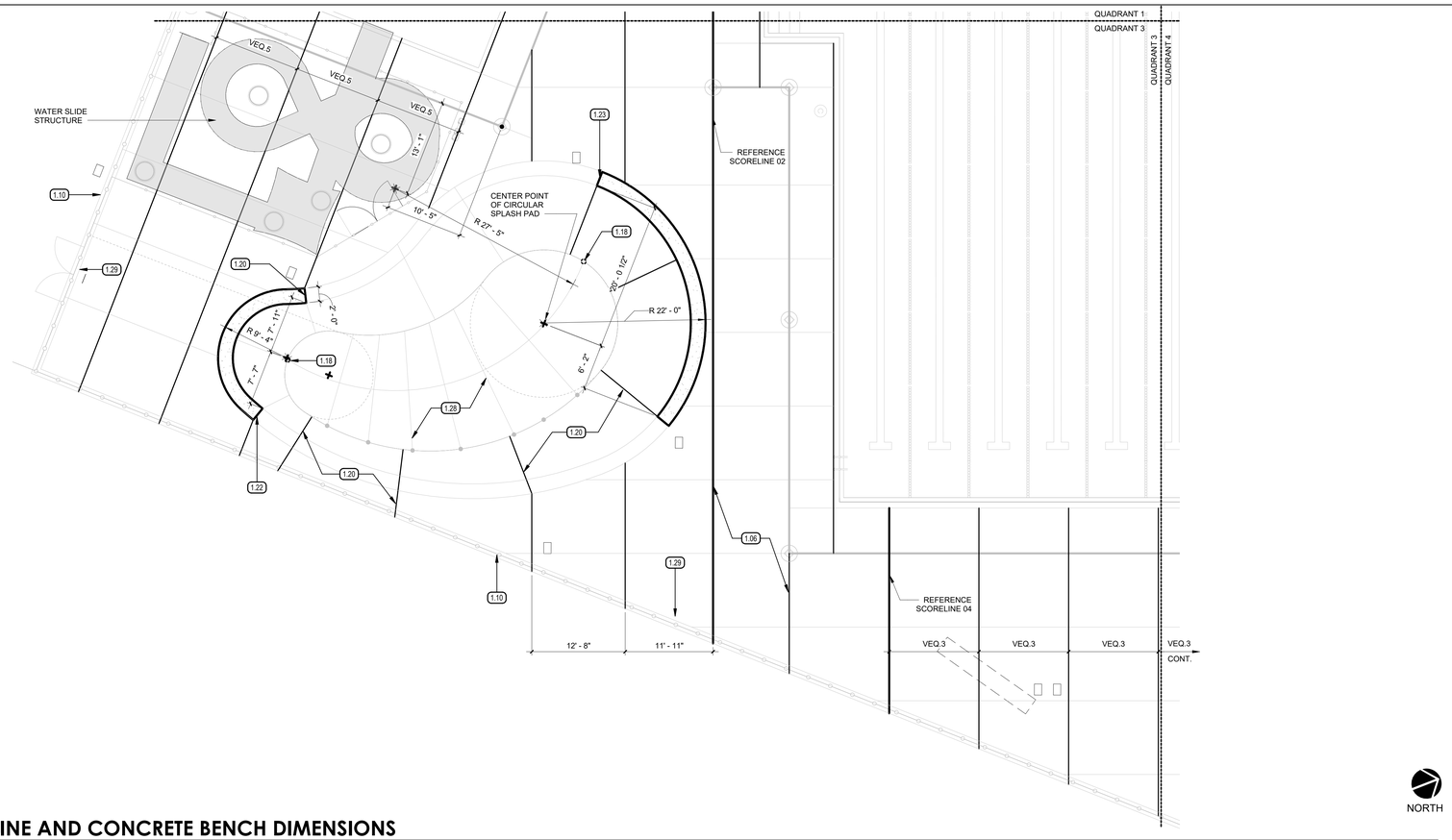
PLOT DATE: 9/19/2025 5:36:20 PM



NORTH

1 QUADRANT 3 HORIZONTAL SCORELINE AND CONCRETE EDGE DIMENSIONS

1/8" = 1'-0"



NORTH

2 QUADRANT 3 VERTICAL SCORELINE AND CONCRETE BENCH DIMENSIONS

1/8" = 1'-0"

1.06	ALIGN WITH POOL SLOT DRAIN. SEE AQUATICS
1.10	EDGE OF CONCRETE
1.18	TANGENT POINT FOR ARC AND LINE. TYP, SEE
1.20	PERPENDICULAR TO CURVES. TYP.
1.22	END OF BENCH TO ALIGN WITH CONCRETE SCORELINE
1.23	END OF BENCH TO ALIGN WITH CENTER POINT OF RADIUS
1.26	ORIGIN LINE AT CONCRETE EDGE FOR PERPENDICULAR DIMENSIONS FOR EDGE OF CONCRETE ARC.
1.28	ALIGN WITH CENTER POINT OF RADIUS, TYP.
1.29	EDGE OF MOWSTRIP, SEE CIVIL.

KEYNOTES

(xx.xx)

✪	TANGENT POINT FOR ARC & LINE. TYP.
VEQ.3	EQUALLY SPACED SCORELINES BETWEEN REFERENCE SCORELINE 04 & REFERENCE SCORELINE 06. SEE 2 / A1.13-1 2 / A1.14-1
VEQ.5	EQUALLY SPACED SCORELINES BETWEEN 2 LEARN-TO-SWIM POOL EDGES. SEE 2 / A1.13-1
HEQ.8	EQUALLY SPACED SCORELINES BETWEEN SLOT DRAIN LINE & CONCRETE EDGE
HEQ.9	10' - 0" EQUALLY SPACED HORIZONTAL SCORELINES STARTED AT REFERENCE SCORELINE 09

LEGEND

A. SEE ADDITIONAL QUADRANT PLANS FOR CONTINUATION OF SCORELINE DOCUMENTATION

B. CENTER POINTS OF RADIUS ON VERTICAL SCORELINE AND CONCRETE BENCH DIMENSIONS MATCH THE LOCATION OF THE CENTER POINTS OF RADIUS ON HORIZONTAL SCORELINE AND CONCRETE EDGE DIMENSIONS DRAWINGS

C. FOR APPLICATION OF CONCRETE JOINT TYPE, SEE CIVIL

GENERAL NOTES

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DIV. OF THE STATE ARCHITECT
APP: 02-123309 INC: 1
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 9/30/2025

AGD
ARCHITECTURE | DESIGN
ANDREW GOODWIN DESIGNS
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REVISIONS

REV # | REV DATE | REV DESCRIPTION

SEAL

LICENSED ARCHITECT
ANTONIO PAVONE
C-39038
REN: 9/30/2025
STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
INCREMENT 1 AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

SCORELINE DIMENSION QUADRANT 3

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

DATE: 9/24/2025

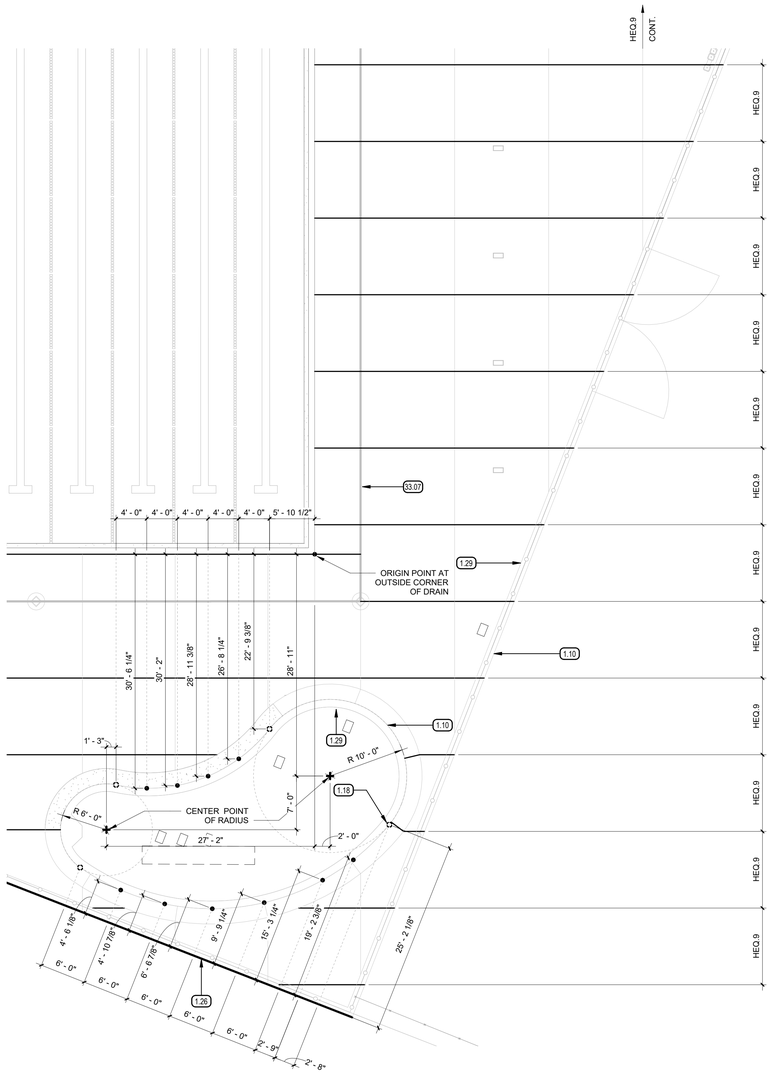
TECHNICIAN: RT / JL

PROJECT MANAGER: TP

JOB NUMBER: 791

SHEET NUMBER
A1.15-1

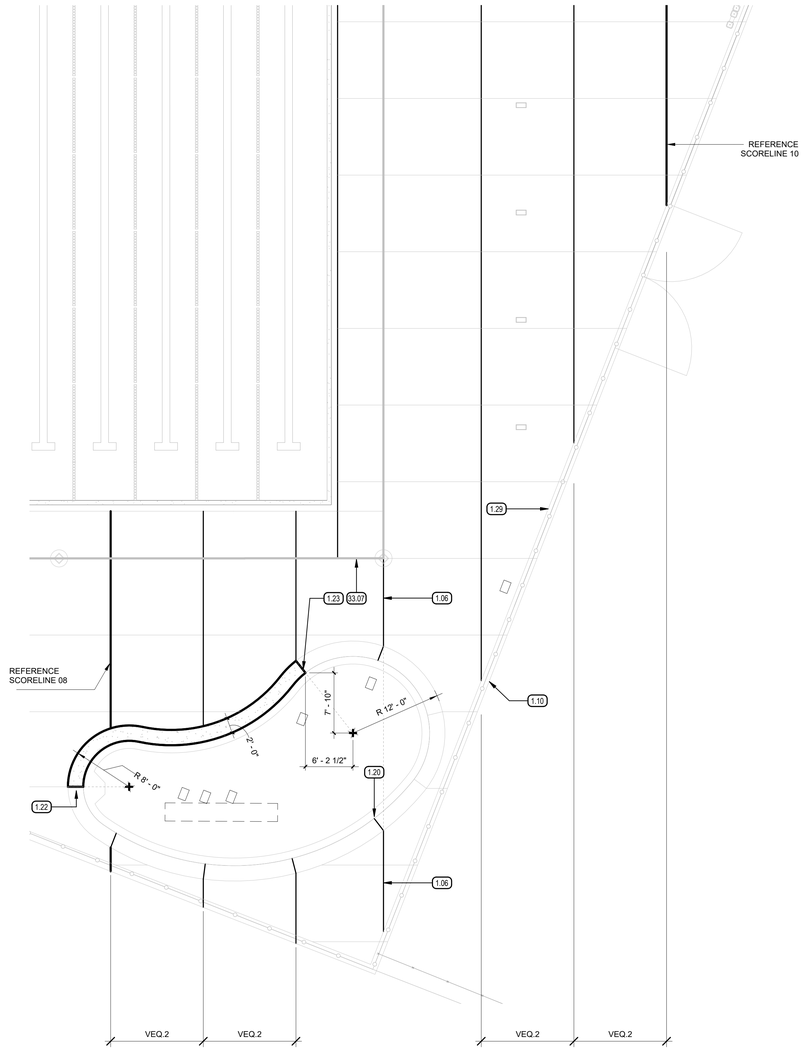
PLOT DATE: 9/19/2025 5:36:21 PM



NORTH

1 QUADRANT 4 HORIZONTAL SCORELINE AND CONCRETE EDGE DIMENSIONS

1/8" = 1'-0"



NORTH

2 QUADRANT 4 VERTICAL SCORELINE AND CONCRETE EDGE DIMENSIONS

1/8" = 1'-0"

KEYNOTES (xx.xx)

1.06	ALIGN WITH POOL SLOT DRAIN. SEE AQUATICS
1.10	EDGE OF CONCRETE
1.18	TANGENT POINT FOR ARC AND LINE. TYP., SEE 2 / A1.14-1
1.20	PERPENDICULAR TO CURVES, TYP.
1.22	END OF BENCH TO ALIGN WITH CONCRETE SCORELINE
1.23	END OF BENCH TO ALIGN WITH CENTER POINT OF RADIUS
1.26	ORIGIN LINE AT CONCRETE EDGE FOR PERPENDICULAR DIMENSIONS FOR EDGE OF CONCRETE ARC.
1.29	EDGE OF MOWSTRIP, SEE CIVIL.
33.07	SLOT DRAIN. SEE AQUATICS

LEGEND

✪	TANGENT POINT FOR ARC & LINE. TYP.
VEQ.2	EQUALLY SPACED SCORELINES BETWEEN REFERENCE SCORELINE 08 & REFERENCE SCORELINE 10. SEE 2 / A1.14-1
HEQ.9	10' - 0" EQUALLY SPACED HORIZONTAL SCORELINES STARTED AT REFERENCE SCORELINE 07. SEE 1 / A1.14-1

GENERAL NOTES

A. SEE ADDITIONAL QUADRANT PLANS FOR CONTINUATION OF SCORELINE DOCUMENTATION

B. CENTER POINTS OF RADIUS ON VERTICAL SCORELINE AND CONCRETE BENCH DIMENSIONS MATCH THE LOCATION OF THE CENTER POINTS OF RADIUS ON HORIZONTAL SCORELINE AND CONCRETE EDGE DIMENSIONS DRAWINGS

C. FOR APPLICATION OF CONCRETE JOINT TYPE, SEE CIVIL

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ANTONIO PAVONE
C-39098
REN: 9/30/2025
STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
INCREMENT 1 AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

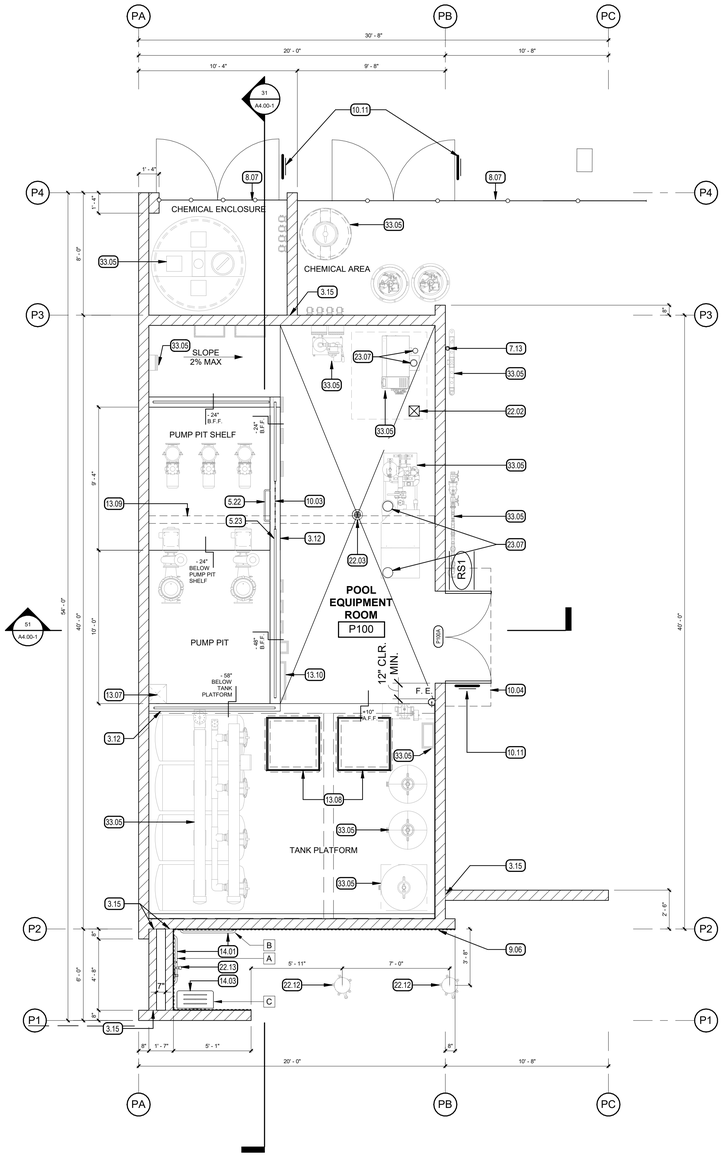
SCORELINE DIMENSION QUADRANT 4

PHASE DESCRIPTION:
100% CD - DSA APPROVAL INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: RT / JL
PROJECT MANAGER: TP
JOB NUMBER: 791

SHEET NUMBER
A1.16-1

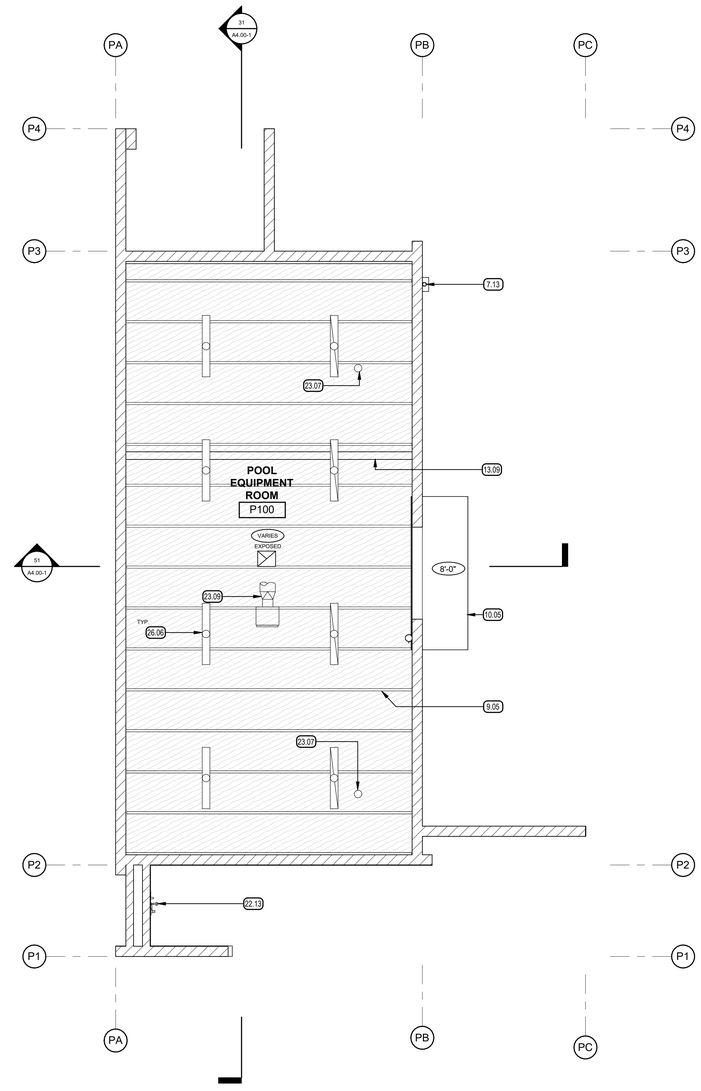
PLOT DATE: 9/19/2025 5:36:22 PM



44 BUILDING P - FLOOR PLAN

1/4" = 1'-0"

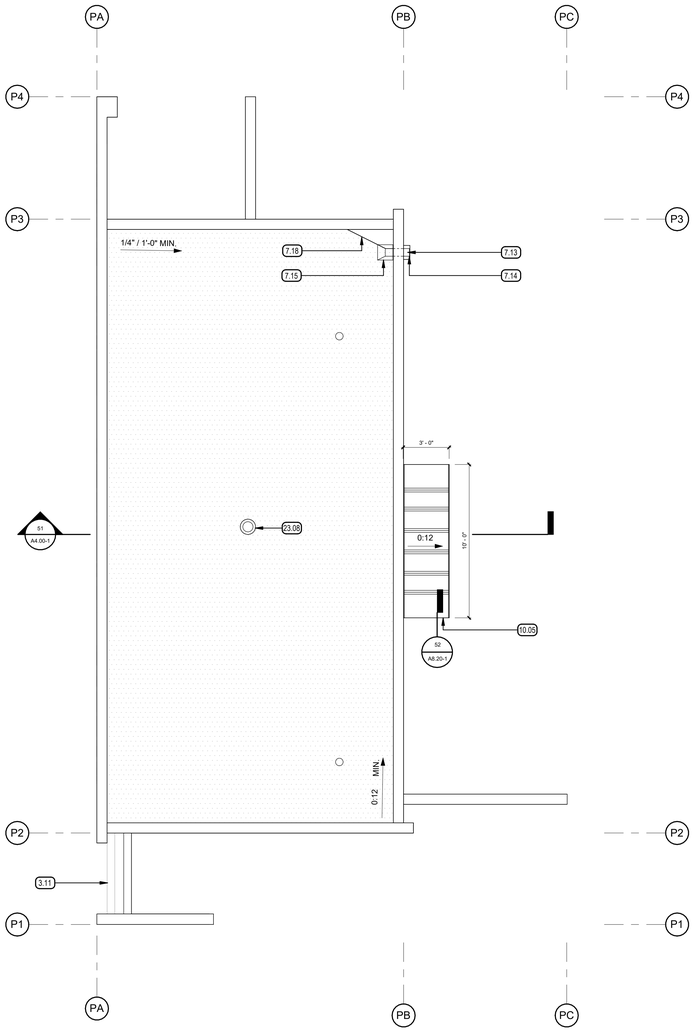
PN



34 BUILDING P - REFLECTED CEILING PLAN

1/4" = 1'-0"

PN



24 BUILDING P - ROOF PLAN

1/4" = 1'-0"

PN

3.11	CONTINUOUS PRE-CAST CONCRETE WALL CAP, SEE42 / A8.20-1	10.05	1/2" THK. GALVANIZED METAL PLATE CANOPY CENTERED OVER DOORS, SEE 41 / A8.20-1 AND STRUCTURAL.
3.12	6" CONCRETE CURB, SEE STRUCTURAL	10.11	CHEMICAL HAZARD SIGNAGE. SEE AQUATICS.
3.15	PROVIDE 1/2" ISOLATION JOINT AT ADJOINING CMU WALL, SEE STRUCTURAL.	13.07	SUMP PIT -5'-0" A.F.F BELOW TOP OF TANK PLATFORM, SEE AQUATICS AND STRUCTURAL.
5.22	METAL LADDER.RUNG TYP. OF (2), SEE STRUCTURAL REFERENCE DETAIL 63/S4.00-1	13.08	SURGE TANK ACCESS HATCH. SEE AQUATICS.
5.23	GALVANIZED METAL GUARDRAIL, PAINTED, SEE INTERIOR ELEVATIONS AND STRUCTURAL	13.09	STEEL HOIST BEAM ABOVE.SEE STRUCTURAL.
7.13	3" DIA. GALVANIZED METAL DOWNSPOUT, TIE INTO STORM DRAIN SYSTEM, SEE 34 / A8.20-1	13.10	EQUIPMENT MOUNTED TO GUARDRAIL, SEE AQUATICS AND STRUCTURAL
7.14	RAIN LEADER CONDUCTOR HEAD, SEE SHEET 34 / A8.20-1	14.01	GRAB BAR, SEE ACCESSORY SCHEDULE AND4 / A8.00-1
7.15	SCUPPER SUMP, SEE.24 / A8.20-1	14.03	ACCESSIBLE SHOWER SEAT, SEE ACCESSORY SCHEDULE AND1 / A8.00-1
7.18	RIGID INSULATION FORMED FOR CRICKET.	22.02	FLOOR SINK. SEE PLUMBING.
8.07	CHAIN LINK FENCING & GATES, SEE CIVIL	22.03	FLOOR DRAIN. SEE PLUMBING.
9.05	ROOF FRAMING, SEE STRUCTURAL	22.12	FREE STANDING SHOWER, SEE PLUMBING.
9.06	THIN SET CERAMIC WALL TILE.	22.13	SHOWER SPRAY UNIT WITH A MIN. 59" LONG HOSE.
10.03	VINYL COATED METAL CHAIN LINK ACCESS WITH SPRING SNAP HOOK	23.07	VENT THRU ROOF, SEE PLUMBING.
10.04	CANOPY ABOVE, SEE ROOF PLAN	23.08	EXHAUST VENT CAP, SEE MECHANICAL
		23.09	EXHAUST EQUIPMENT, SEE MECHANICAL
		26.06	LIGHT. SEE ELECTRICAL
		33.05	POOL SERVICE EQUIPMENT. SEE AQUATICS

KEYNOTES (XX.XX)

CMU WALL, SEE STRUCTURAL

FULLY ADHERED SINGLE PLY ROOF SYSTEM OVER 1/2" COVER BOARD, OVER 6" RIGID INSULATION, OVER ROOF DECK..

EXPOSED PLYWOOD DECK, SEE STRUCTURAL

EXHAUST FAN, SEE MECHANICAL

(XXX) ROOM IDENTIFICATION SIGNAGE, SEE 6 / A8.00-1

F.E. 2A:10B:C BRACKET MOUNTED FIRE EXTINGUISHER, SEE 9 / A8.00-1

LEGEND

MARK	DESCRIPTION	MFR.	MODEL NO.	REMARKS
A	GRAB BAR, REAR	BOBRICK	B-6806 SERIES	36" LONG
B	GRAB BAR, SIDE	BOBRICK	B-6806 SERIES	42" LONG
C	SHOWER SEAT	BOBRICK	B-5193	SURFACE MTD.

ACCESSORY SCHEDULE

A. REFER TO CIVIL, LANDSCAPE, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND AQUATICS FOR ADDITIONAL INFORMATION.

B. ALL DIMENSIONS SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION.

C. SLOPE CONCRETE SLAB TO FLOOR DRAIN, 1 1/2% MAX. SLOPE.

H. THE CONTRACTOR IS TO MAINTAIN BUILDING IN A WEATHER-TIGHT CONDITION AGAINST INCLEMENT WEATHER AT ALL TIMES.

GENERAL NOTES

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DATE: 9/30/2025

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ARCHITECTURE | DESIGN

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ANTONIO PAVONE
C-39038
REN: 9/30/2025
STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
INCREMENT 1 AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

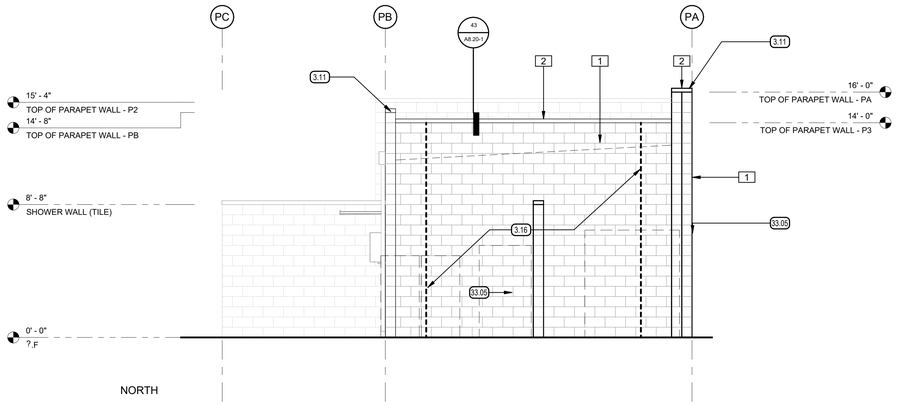
BUILDING P - PROPOSED FLOOR PLAN, RCP, & ROOF PLAN

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

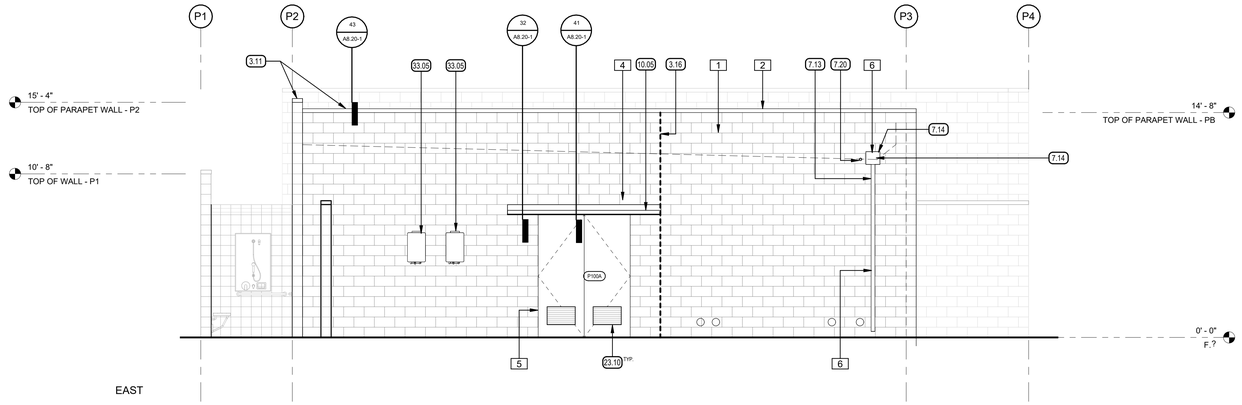
DATE: 9/24/2025
TECHNICIAN: RT / JL
PROJECT MANAGER: TP
JOB NUMBER: 791

SHEET NUMBER
A2.10-1

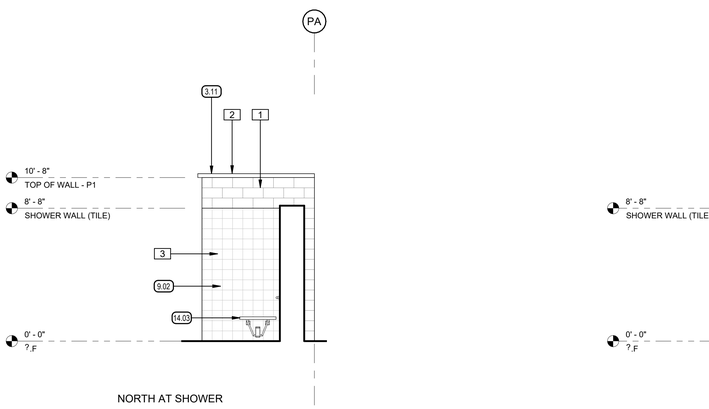
PLOT DATE: 9/19/2025 5:36:23 PM



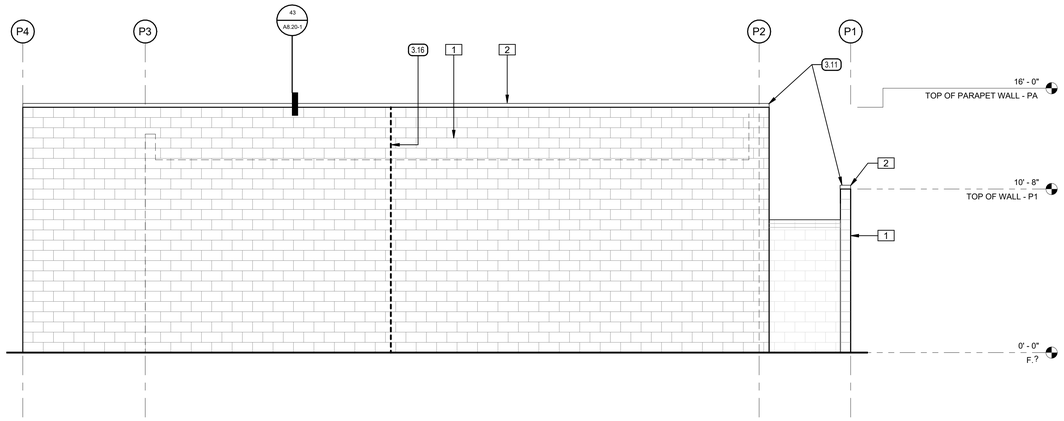
NORTH



EAST

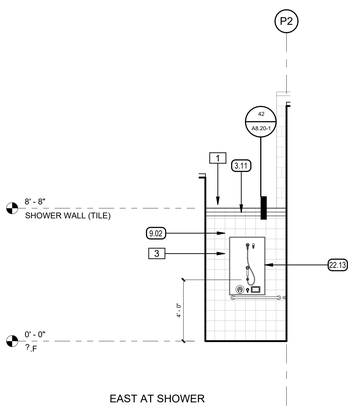


SOUTH

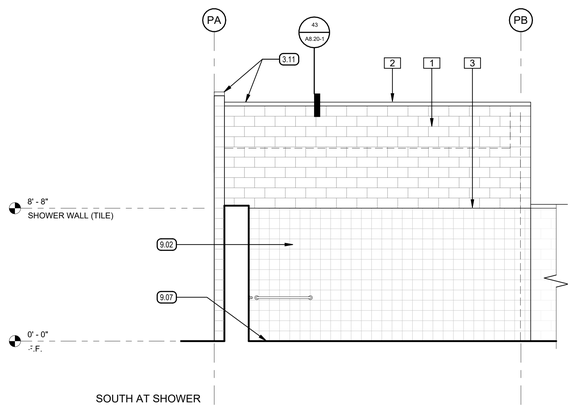


WEST

NORTH AT SHOWER



EAST AT SHOWER



SOUTH AT SHOWER

53 BUILDING P EXTERIOR ELEVATIONS

1/4" = 1'-0"

KEYNOTES (XX.XX)

3.11	CONTINUOUS PRE-CAST CONCRETE WALL CAP, SEE42 / A8.20-1 ,43 / A8.20-1 AND 61 / A8.20-1
3.16	CONTROL JOINT, SEE STRUCTURAL.
7.13	3" DIA. GALVANIZED METAL DOWNSPOUT, TIE INTO STORM DRAIN SYSTEM, SEE 34 / A8.20-1
7.14	RAIN LEADER CONDUCTOR HEAD, SEE SHEET34 / A8.20-1
7.20	OVERFLOW SCUPPER, SEE 11 / A8.20-1
9.02	CERAMIC TILE WALL, SEE FLOOR PLAN FOR EXTENT ALONG WALL
9.07	CERAMIC TILE SANITARY COVED BASE 'SLIM FOOT DESIGN', TYP.
10.05	1/2" THK. GALVANIZED METAL PLATE CANOPY CENTERED OVER DOORS, SEE 41 / A8.20-1 AND STRUCTURAL.
14.03	ACCESSIBLE SHOWER SEAT, SEE ACCESSORY SCHEDULE AND1 / A8.00-1
22.13	SHOWER SPRAY UNIT WITH A MIN. 59" LONG HOSE.
23.10	24" W x 18" H LOUVER CENTERED ON DOOR LEAF
33.05	POOL SERVICE EQUIPMENT. SEE AQUATICS

EXTERIOR FINISH & COLOR SCHEDULE

MARK	DESCRIPTION	FINISH	COLOR	REMARKS
1	CONCRETE MASONY UNIT	FF	NATURAL GRAY	A,D,E
2	PRE-CAST CONCRETE CAP	FF	GRANADA WHITE	A
3	CERAMIC TILE	FF	WHITE	A
4	METAL CANOPY	K5	MATTE BLACK	A
5	DOOR AND FRAME	FF	MONTEREY GREY	A
6	CONDUCTOR HEAD AND DOWNSPOUT	P1	*	B C

* PAINT COLOR TO MATCH DOOR AND FRAME FACTORY FINISH COLOR. PROVIDE SAMPLE TO ARCHTIECT FOR APPROVAL AND FINAL COLOR SELECTION.

REMARKS

A. PROVIDE COLOR SAMPLE FROM MANUFACTURERS FULL LINE OF COLORS TO ARCHTIECT FOR APPROVAL AND FINAL COLOR SELECTION

B. SELECT PAINT FROM DUNN EDWARDS FULL LINE OF COLORS

C. PROVIDE PAINT BRUSH OUT TO ARCHITECT FOR APPROVAL AND FINAL COLOR SELECTION

D. GROUT COLOR TO MATCH CMU COLOR

E. PROVIDE CMU SEALER, PER SPECIFICATIONS.

ABBREVIATIONS

FF FACTORY FINISH
P1 PAINT COLOR 1
K5 KYNAR 500

GENERAL NOTES

A. ALL EXTERIOR ELEVATIONS ARE SET TO PROJECT NORTH PER PLAN

B. REFER TO PROJECT MANUAL FOR ADDITIONAL EXTERIOR MATERIAL INFORMATION.

C. CMU WALL MORTAR JOINTS ARE TO BE FLUSH, CLEAN EXCESS MORTAR FROM CMU WALL

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REVISIONS

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SEAL

LICENSED ARCHITECT
ANTONIO PAVONE
C-39258
REN: 9/30/2025
STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
INCREMENT 1 AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

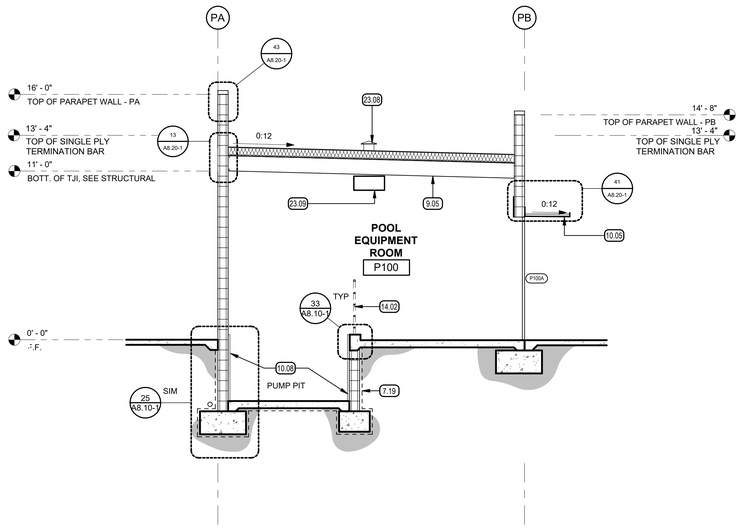
BUILDING P - PROPOSED EXTERIOR ELEVATIONS

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: RT / JL
PROJECT MANAGER: TP
JOB NUMBER: 791

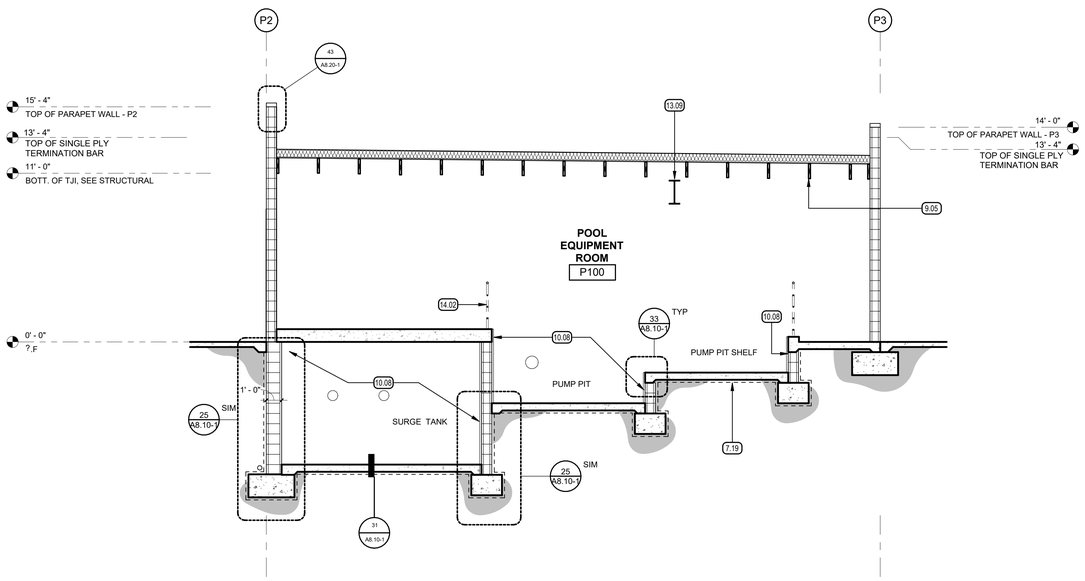
SHEET NUMBER
A3.00-1

PLOT DATE: 9/19/2025 5:36:25 PM



51 BUILDING P - CROSS SECTION

1/4" = 1'-0"



31 BUILDING P - LONGITUDINAL SECTION

1/4" = 1'-0"

7.19	WATER PROOFING MEMBRANE, SEE25 / A8.10-1
9.05	ROOF FRAMING, SEE STRUCTURAL
10.05	1/2" THK. GALVANIZED METAL PLATE CANOPY CENTERED OVER DOORS, SEE 32 / A8.20-1 AND STRUCTURAL.
10.08	CLEMENTIOUS WATERPROOFING, SEE AQUATICS.
13.09	STEEL HOIST BEAM ABOVE,SEE STRUCTURAL.
14.02	RAILING, SEE INTERIOR ELEVATIONS AND STRUCTURAL
23.08	EXHAUST VENT CAP, SEE MECHANICAL
23.09	EXHAUST EQUIPMENT, SEE MECHANICAL

KEYNOTES XX.XX

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APP: 02-123309 INC: 1
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SS ☑ FLS ☑ ACS ☑
DATE: 9/30/2025

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LICENSED ARCHITECT
ANTONIO PAVONE
C-39258
REN: 9/30/2025
STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
INCREMENT 1 AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

BUILDING P - PROPOSED SECTIONS

PHASE DESCRIPTION
100% CD - DSA APPROVAL
INCREMENT 1

DATE: 9/24/2025

TECHNICIAN: RT / JL

PROJECT MANAGER: TP

JOB NUMBER: 791

SHEET NUMBER

A4.00-1

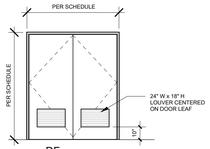
PLOT DATE: 9/19/2025 5:36:26 PM

GENERAL NOTES

DOORS AND GATES SHALL COMPLY WITH CBC SECTIONS 1010 AND 11B-404, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

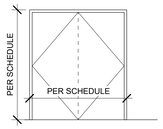
1. SIZE: DOOR OPENINGS SHALL HAVE A MINIMUM OPENING CLEAR WIDTH OF 32 " MEASURED BETWEEN THE FACE OF THE DOOR AND THE STOP, WITH THE DOOR OPEN 90 DEGREES. EGRESS DOORS USED FOR THE MOVEMENT OF BEDS AND STRETCHER PATIENTS SHALL PROVIDE A MINIMUM CLEAR OPENING WIDTH OF 44 ". THE CLEAR OPENING HEIGHT OF DOORS SHALL BE NOT LESS THAN 80 ". THE MAXIMUM DOOR LEAF WIDTH SHALL BE 48 " (CBC 1010.1.1 AND 11B-404.2.3).
2. FORCE TO UNLATCH HARDWARE: THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 LBS MAXIMUM (CBC 1010.1.3, 11B-404.2.7 AND 11B-309.4).
3. FORCE TO OPEN DOORS: THE FORCE REQUIRED TO PUSH OR PULL OPEN NON-FIRE RATED SWINGING, SLIDING, OR FOLDING DOORS SHALL NOT EXCEED 5 LBS. THE FORCE REQUIRED TO PUSH OR PULL OPEN A FIRE RATED SWINGING DOOR SHALL NOT EXCEED 15 LBS (CBC 1010.1.3 AND 11B-404.2.9).
4. THRESHOLDS: THRESHOLDS SHALL NOT EXCEED 1/2 INCH IN HEIGHT ABOVE THE LOWEST ADJACENT FINISHED FLOOR OR LANDING SURFACE; CHANGES IN ELEVATION GREATER THAN 1/4 " SHALL BE BEVELED WITH A SLOPE NOT GREATER THAN 2:1 HORIZONTAL TO VERTICAL (CBC 1010.1.6, 11B-404.2.5 AND 11B-303).
5. DOOR OPERATION: EGRESS DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT (CBC 1010.2).
6. UNLATCHING: THE UNLATCHING OF ANY DOOR OR LEAF FOR EGRESS SHALL NOT REQUIRE MORE THAN ONE MOTION IN A SINGLE LINEAR OR ROTATIONAL DIRECTION TO RELEASE ALL LATCHING AND ALL LOCKING DEVICES (CBC 1010.2.1).
7. HARDWARE: HAND ACTIVATED DOOR OPERATING HARDWARE SHALL BE LEVER HANDLED OR PULLS THAT ARE EASY TO GRASP WITH ONE HAND AND DO NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST TO OPERATE. LEVERS, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES ON REQUIRED MEANS OF EGRESS DOORS SHALL COMPLY WITH SFM STANDARD 12-10-2, SECTION 12-10-202 CONTAINED IN THE CCR, TITLE 24, PART 12, CALIFORNIA REFERENCED STANDARDS CODE (CBC 1010.2.2 AND 11B-404.2.7).
8. HARDWARE HEIGHT: OPERATING HARDWARE SHALL BE MOUNTED 34 INCHES MINIMUM AND 44 INCHES MAXIMUM ABOVE THE FINISHED FLOOR LEVEL. LOCKS USED ONLY FOR SECURITY PURPOSES AND NOT USED FOR NORMAL OPERATION ARE PERMITTED AT ANY HEIGHT. (CBC 1010.2.3 & 11B-404.2.7).
9. BOLT LOCKS: MANUALLY OPERATED SURFACE OR FLUSH BOLTS ARE NOT PERMITTED EXCEPT FOR THE INACTIVE LEAF OF PAIRS OF DOORS SERVING STORAGE OR EQUIPMENT ROOMS, OR SERVING B, F OR S OCCUPANCIES HAVING AN OCCUPANT LOAD OF LESS THAN 50 OCCUPANTS (CBC 1010.2.5).
10. PANIC HARDWARE: SWINGING DOORS SERVING A GROUP `H' OCCUPANCY OR SERVING ROOMS OR SPACES WITH AN OCCUPANT LOAD OF 50 OR MORE IN A GROUP `A' OR `E' OCCUPANCY SHALL BE PROVIDED WITH PANIC OR FIRE EXIT HARDWARE (CBC 1010.2.9).
11. ELECTRICAL EQUIPMENT ROOMS: EXIT OR EXIT ACCESS DOORS SERVING TRANSFORMER VAULTS, ROOMS DESIGNATED FOR BATTERIES OR ENERGY STORAGE SYSTEMS, OR MODULAR DATA CENTERS SHALL BE EQUIPPED WITH PANIC HARDWARE. ROOMS CONTAINING ELECTRICAL EQUIPMENT RATED AT 800 AMPERES OR MORE THAT CONTAIN OVERCURRENT DEVICES, SWITCHING DEVICES OR CONTROL DEVICES AND WHERE THE EXIT OR EXIT ACCESS DOOR IS LESS THAN 25` FROM THE EQUIPMENT WORKING SPACE AS REQUIRED BY NFPA 70, SUCH DOORS SHALL BE PROVIDED WITH PANIC HARDWARE AND THE DOORS SHALL SWING IN THE DIRECTION OF EGRESS TRAVEL (CBC 1010.2.9.2).
12. DOOR CLOSERS: IF A DOOR HAS A CLOSER, THE CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM (CBC 11B-404.2.8.1). CLOSERS SHALL BE ADJUSTED SO THAT THE FORCE REQUIRED TO PUSH OR PULL OPEN A DOOR SHALL NOT EXCEED 5 LBS. FOR INTERIOR AND EXTERIOR DOORS AND NOT MORE THAN 15 LBS. FOR REQUIRED FIRE RATED DOORS. (CBC 11B-404.2.9).
13. DOOR SURFACE: SWINGING DOOR SURFACES WITHIN 10 " OF THE FLOOR SHALL HAVE A SMOOTH SURFACE ON THE PUSH SIDE EXTENDING THE FULL WIDTH OF THE DOOR. JOINTS IN THE DOOR SURFACE SHALL NOT EXCEED 1/16 " OFFSET. SURFACES SHALL BE FREE OF SHARP OR ABRASIVE EDGES. CAVITIES CREATED BY KICK PLATES SHALL BE CAPPED (CBC 11B-404.2.10).
14. VISION LIGHTS: VISION LITES IN DOORS SHALL HAVE THE BOTTOM EDGE OF VISIBLE GLASS 43" MAXIMUM ABOVE THE FLOOR (CBC 11B-404.2.11).
15. SAFETY GLAZING: GLAZING IN DOORS SHALL BE TEMPERED SAFETY GLASS OR OTHER APPROVED SAFETY GLAZING MATERIAL. SAFETY GLAZING SHALL BE PERMANENTLY IDENTIFIED (CBC 2406.1, 2406.3 AND 2406.4.1).
16. FIRE RATED ASSEMBLIES: FIRE RATED DOOR/FRAME ASSEMBLIES SHALL BE SELF CLOSING AND POSITIVE LATCHING (CBC 716.2.6.1, 716.2.6.2 AND 716.2.6.4). FIRE RATED DOOR/FRAME ASSEMBLIES SHALL BE LABELED BY AN APPROVED AGENCY AND HAVE LABELS COMPLYING WITH NFPA 80 PERMANENTLY AFFIXED TO THE DOOR AND FRAME (CBC 716.2.9.1).
17. ALL DOORS SHALL BE 1-3/4" THICK UNLESS NOTED OTHERWISE.
18. REFER TO INTERIOR FINISH SCHEDULE FOR COLOR/GLOSS/ PATTERN FOR PAINTED DOOR AND FRAME FINISHES.
19. WHERE NEW DOORS ARE TO BE INSTALLED IN EXISTING DOOR FRAMES, THE CONTRACTOR SHALL FIELD VERIFY THE SIZE OF THE EXISTING DOOR OPENING AND CONFIRM THE SIZE OF NEW DOORS.
20. PUBLIC SCHOOL FACILITIES (K-12): DOORS TO CLASSROOMS AND ANY ROOM WITH AN OCCUPANT LOAD OF 5 OR MORE PERSONS SHALL BE CAPABLE OF BEING LOCKED FROM THE INSIDE, LOCKS SHALL COMPLY WITH REQUIREMENTS FOUND IN CBC 1010.2.
21. INTRUDER LOCKING: LOCKS DESIGNED TO PREVENT INTRUDERS FROM ENTERING SHALL BE CAPABLE OF BEING UNLOCKED FROM THE OUTSIDE WITH A KEY, SHALL BE OPENABLE FROM WITHIN THE ROOM, AND MODIFICATIONS SHALL NOT BE MADE TO FIRE OR PANIC HARDWARE, AND/OR FIRE RATED DOOR ASSEMBLIES (CBC 1010.2.8).

DOOR TYPES



DF
DOUBLE FLUSH

DOOR FRAM TYPE



FG-1
SEAMLESS FIBERGLASS DOOR FRAME

DOOR SCHEDULE

MARK	DOOR WIDTH	DOOR HEIGHT	DOOR TYPE	DOOR MATL	DOOR FINISH	FRAME TYPE	FRAME FINISH	HARDWARE GROUP	REMARKS
P100A	6' - 0"	8' - 0"	DF	FG	FF	FG-1	FF	01	A

FF	FACTORY FINISH	ASF	ALUMINUM STOREFRONT
FG	FIBERGLASS	CA	CLEAR ANODIZED
P	PAINT		
TIG-C	CLEAR TEMPERED INSULATED GLASS		
TG-C	CLEAR TEMPERED GLASS		

ABBREVIATIONS

A. CONTRACTOR SHALL PROVIDE HEAVY DUTY FRAME AND DOOR

B. DOOR WIDTH AND HEIGHT ARE BASED ON OVERALL FRAME DIMENSIONS

REMARKS

EC	EXPOSED CONCRETE	SC	SEALED CONCRETE
CMU	CONCRETE MASONRY UNIT	FF	FACTORY FINISH
RF	ROOF FRAMING		

FINISH SCHEDULE ABBREVIATIONS

A. ALL INTERIOR SURFACE MOUNTED EXPOSED CONDUITS, PIPES, PANELS, EQUIPMENT, ETC, ARE TO BE FACTORY FINISH.

REMARKS

FINISH SCHEDULE

ROOM NO.	ROOM NAME	Floor		Base		WALLS								CEILING			REMARKS
						NORTH		EAST		SOUTH		WEST					
		MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	HEIGHT	
P100	POOL EQUIPMENT ROOM	EC	SC	NONE	NONE	CMU	FF	CMU	FF	CMU	FF	CMU	FF	RF	FF	VARIES	A

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LICENSED ARCHITECT
ANTONIO PAVONE
C-39038
REN: 9/30/2025
STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
INCREMENT 1 AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

BUILDING P - DOOR & FINISH SCHEDULE

PHASE DESCRIPTION
100% CD - DSA APPROVAL
INCREMENT 1

DATE: 9/24/2025

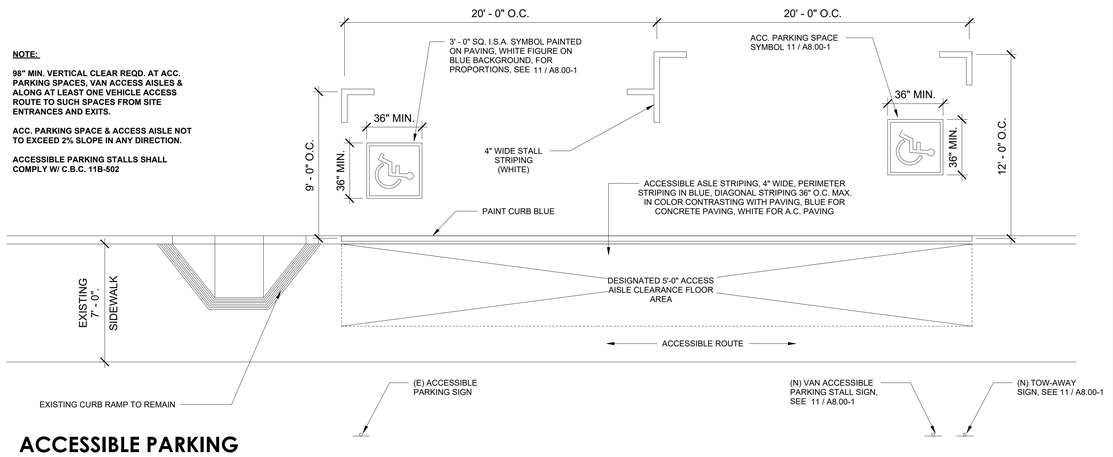
TECHNICIAN: RT / JL

PROJECT MANAGER: TP

JOB NUMBER: 791

SHEET NUMBER
A7.00-1

PLOT DATE: 9/19/2025 5:36:27 PM



NOTE:

98" MIN. VERTICAL CLEAR REQD. AT ACC. PARKING SPACES, VAN ACCESS AISLES & ALONG AT LEAST ONE VEHICLE ACCESS ROUTE TO SUCH SPACES FROM SITE ENTRANCES AND EXITS.

ACC. PARKING SPACE & ACCESS AISLE NOT TO EXCEED 2% SLOPE IN ANY DIRECTION.

ACCESSIBLE PARKING STALLS SHALL COMPLY W/ C.B.C. 11B-502

12 ACCESSIBLE PARKING STALL

3" = 1'-0"

EXISTING ACCESSIBLE DOOR OPERATOR PUSH BUTTON

14 REAR ENTRY INTERIOR

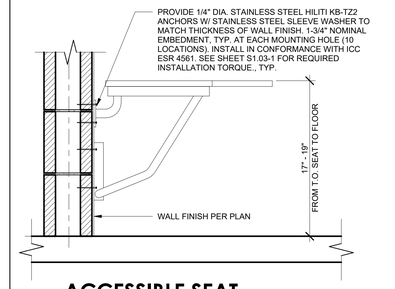
1 1/2" = 1'-0"

EXISTING ACCESSIBLE DOOR OPERATOR PUSH BUTTON

EXISTING ACCESSIBLE DOOR OPERATOR PUSH BUTTON

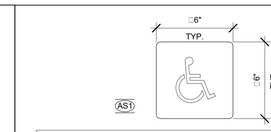
13 REAR ENTRY EXTERIOR

1 1/2" = 1'-0"



10 ACCESSIBLE SEAT ANCHORAGE

1 1/2" = 1'-0"

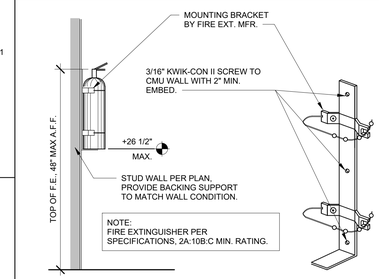


NOTE:

1. ALL BLDG. ENTRANCES THAT ARE ACCESSIBLE TO & USABLE BY PHYSICALLY DISABLED PERSONS SHALL BE IDENTIFIED WITH AT LEAST ONE STANDARD SIGN & ADDITIONAL DIRECTIONAL SIGNS AS REQUIRED TO BE VISIBLE TO PERSONS ALONE APPROACHING PEDESTRIAN WAYS.
2. CHARACTERS & SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND, EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND.
3. ALL MECHANICAL ATTACHMENTS TO BE CONCEALED
4. SYMBOL SHALL COMPLY WITH 11B-703.7.2.1
5. PROVIDE 16 GAUGE METAL BACKING PLATE TO MATCH SAME DIMENSIONS AS SIGNAGE. SANDWICH CHAINLINK TOGETHER WITH TAMPER RESISTANT THRU BOLTS SIMILAR TO DETAIL [E/CX1.03]

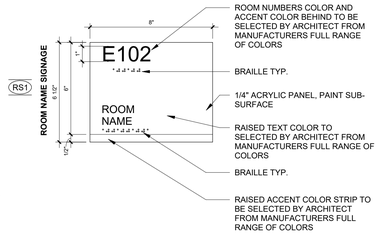
8 ACCESSIBLE SIGNAGE

1 1/2" = 1'-0"



9 FIRE EXTINGUISHER BRACKET INC.1

12" = 1'-0"

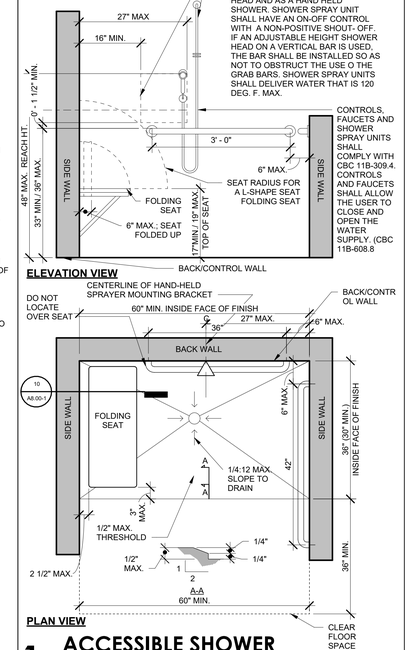


NOTE:

1. REFER TO 6 / A8.00-1 FOR TYPICAL HEIGHT AND LOCATION REQUIREMENTS
2. COORDINATE ROOM NAME AND NUMBER WITH OWNER PRIOR TO FABRICATION. DO NOT USE IDENTIFICATION FOUND ON THE DRAWINGS, U.N.O.
3. RAISED TEXT CHARACTERS SHALL COMPLY WITH CBC 11B-703.2 AND SHALL BE DUPLICATED IN BRAILLE COMPLYING WITH CBC 11B-703.3
4. BRAILLE DOTS SHALL HAVE A DOMED OR ROUNDED SHAPE AND SHALL COMPLY WITH CBC TABLE 703.3.1
5. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND PER CBC 11B-703.7.2.1

5 TYP. ROOM IDENTIFICATION SIGNAGE

3" = 1'-0"

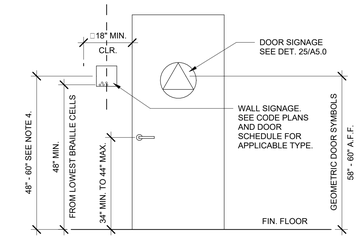


1 ACCESSIBLE SHOWER

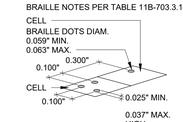
3/4" = 1'-0"

NOTES 1:

1. SIGNS SHALL COMPLY WITH SECTIONN 11B-703. WHERE BOTH VISUAL AND TACTILE CHARACTERS ARE REQUIRED, EITHER ONE SIGN WITH BOTH VISUAL AND ONE WITH TACTILE CHARACTERS, OR TWO SEPARATE SIGNS, ONE WITH VISUAL, AND ONE WITH TACTILE CHARACTERS, SHALL BE PROVIDED.
2. RAISE CHARACTERS SHALL COMPLY WITH SECTION 11B-703.2 AND SHALL BE DUPLICATED IN BRAILLE COMPLYING WITH SECTIONS 11B-703.3.
3. CHARACTER AND BRAILLE SHALL BE IN A HORIZONTAL FORMAT. BRAILLE SHALL BE PLACED A MIN. OF 3/8 INCH AND A MAX. OF 1/2 INCH DIRECTLY BELOW THE TACTILE CHARACTERS; FLUSH LEFT OR CENTERED. WHEN TACTILE TEXT IS MULTI-LINED, ALL BRAILLE SHALL BE PLACED TOGETHER BELOW ALL LINES OF TACTILE TEXT. C.B. SEC. 11B-703.3.2.
4. TACTILE CHARACTERS ON SIGNS SHALL BE LOCATED 48 INCHES MINIMUM ABOVE THE FINISHED FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE LOWEST BRAILLE CELLS AND 60 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE. MEASURED FROM THE BASELINE OF THE HIGHEST LINE OF RAISED CHARACTERS. PEER CBC 11B703.4.1.
5. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF. CBC 11B-703.4.2
6. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAFS. THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR. CBC 11B-703.4.2



BRAILLE NOTES PER TABLE 11B-703.3.1



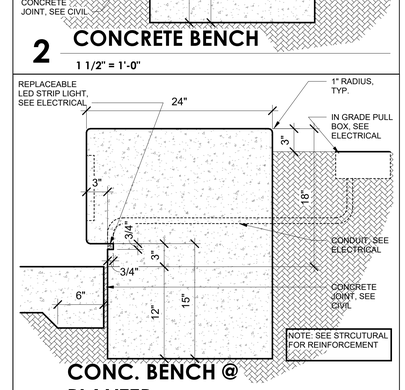
CONTRACTED GRADE 2 BRAILLE:

BRAILLE DOTS SHALL HAVE A DOMED OR ROUNDED SHAPE AND SHALL COMPLY WITH TABLE 11B-703.3.1. THE INDICATION OF AN UPPERCASE LETTER OR LETTERS SHALL ONLY BE USED BEFORE THE FIRST WORD OF SENTENCES, PROPER NOUNS AND NAMES, INDIVIDUAL LETTERS OF THE ALPHABET, INITIALS, AND ACRONYMS.

6 TYP. DOOR SIGNAGE PLACEMENT

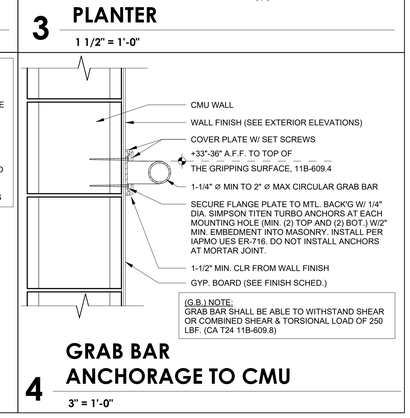
1/2" = 1'-0"

NOTE: SEE STRCUTURAL FOR REINFORCEMENT



2 CONCRETE BENCH

1 1/2" = 1'-0"



3 CONC. BENCH @ PLANTER

1 1/2" = 1'-0"

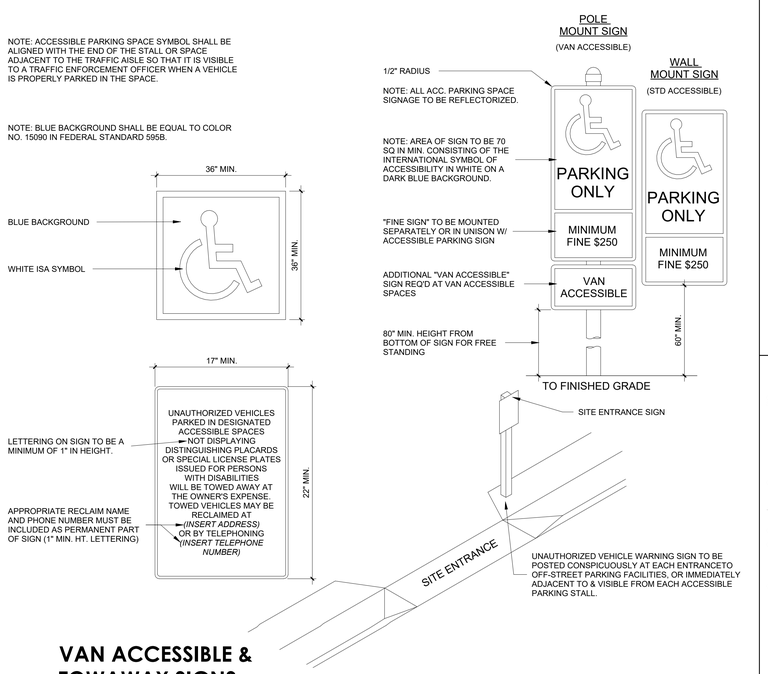
EXISTING ACCESSIBLE DOOR OPERATOR PUSH BUTTON

15 MAIN ENTRY INTERIOR

1 1/2" = 1'-0"

NOTE: ACCESSIBLE PARKING SPACE SYMBOL SHALL BE ALIGNED WITH THE END OF THE STALL OR SPACE ADJACENT TO THE TRAFFIC AISLE SO THAT IT IS VISIBLE TO A TRAFFIC ENFORCEMENT OFFICER WHEN A VEHICLE IS PROPERLY PARKED IN THE SPACE.

NOTE: BLUE BACKGROUND SHALL BE EQUAL TO COLOR NO. 15090 IN FEDERAL STANDARD 595B.



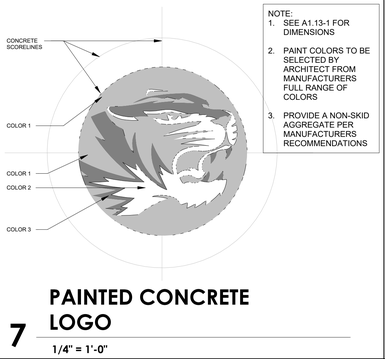
11 VAN ACCESSIBLE & TOWAWAY SIGNS

3" = 1'-0"

EXISTING ACCESSIBLE DOOR OPERATOR PUSH BUTTON

16 MAIN ENTRY EXTERIOR

1 1/2" = 1'-0"



NOTE:

1. SEE A1.13-1 FOR DIMENSIONS
2. PAINT COLORS TO BE SELECTED BY ARCHITECT FROM MANUFACTURERS FULL RANGE OF COLORS
3. PROVIDE A NON-SKID AGGREGATE PER MANUFACTURERS RECOMMENDATIONS

7 PAINTED CONCRETE LOGO

1/4" = 1'-0"

(G.B.) NOTE:
GRAB BAR SHALL BE ABLE TO WITHSTAND SHEAR OR COMBINED SHEAR & TORSIONAL LOAD OF 250 LBF. (CA T24 11B-609.8)

4 GRAB BAR ANCHORAGE TO CMU

3" = 1'-0"

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ANTONIO PAVONE
C-39028
REN: 9/30/2025
STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
INCREMENT 1 AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

ACCESSIBILITY DETAILS

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

DATE: 9/24/2025

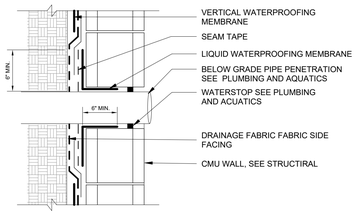
TECHNICIAN: RT / JL

PROJECT MANAGER: TP

JOB NUMBER: 791

SHEET NUMBER
A8.00-1

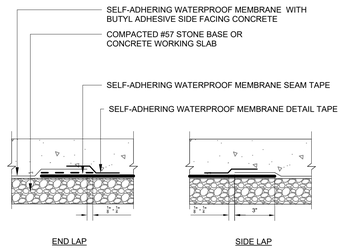
PLOT DATE: 9/19/2025 5:36:28 PM



NOTES:
1. STEEL PIPE MUST BE CLEANED AND ABRADED TO BRIGHT FINISH.
2. PVC PIPE MUST BE ABRADED TO PROMOTE ADHESION.
3. MAINTAIN 6 IN. OF CLEARANCE BETWEEN PENETRATIONS FOR PROPER DETAILING.
4. REFER TO TECHNICAL DATA SHEETS FOR ADDITIONAL INFORMATION.

41 WATERPROOFING BARRIER AT PENETRATION

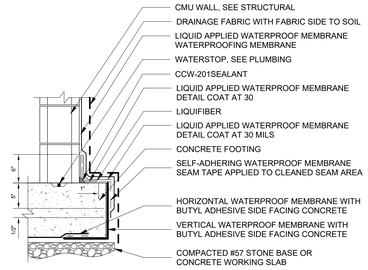
6" = 1'-0"



NOTES:
1. FOR SIDE LAPS, INSTALL SHEETS OF SELF-ADHERING WATERPROOF MEMBRANE WITH A MINIMUM 3" SIDE OVERLAP WITH 1/8"- 1/4" OF EXPOSED ADHESIVE. ENSURE THE MEMBRANE LAYS FLAT AND NO OPENINGS ARE VISIBILE. STAGGER END LAPS. REMOVE THE RELEASE LINERS ON THE SELF-ADHERING WATERPROOF MEMBRANE SEAM TAPE, FOR END LAP, AND FACTORY APPLIED TAPE (FAT) MATING THE TWO SHEETS TOGETHER. AFTER THE SEAM IS FULLY CONSTRUCTED, ROLL THE SEAM WITH A HARD RUBBER ROLLLER.
2. REFER TO TECHNICAL DATA SHEETS FOR ADDITIONAL INFORMATION.

31 TYPICAL HORIZ. WATERPROOFING LAP

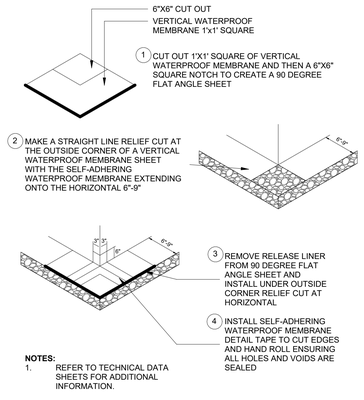
6" = 1'-0"



NOTES:
1. EXTEND LIQUID APPLIED WATERPROOF MEMBRANE A MINIMUM OF 1/2" BEYOND SELF-ADHERING WATERPROOF MEMBRANE SEAM TAPE.
2. PERIMETER DRAIN NOT SHOWN FOR CLARITY.
3. REFER TO TECHINCAL DATA SHEETS FOR ADDITIONAL INFORMATION.

11 WATERPROOFING AT FOOTONG

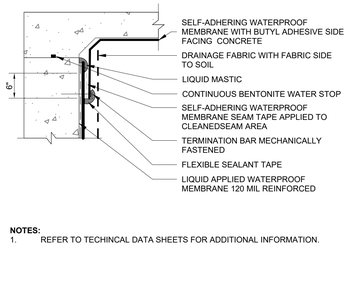
6" = 1'-0"



NOTES:
1. REFER TO TECHNICAL DATA SHEETS FOR ADDITIONAL INFORMATION.

43 TYPICAL WATERPROOF MEMBRANE OUTSIDE CORNER

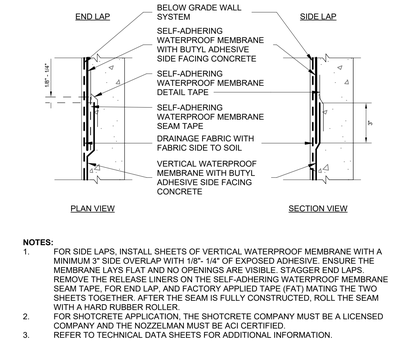
6" = 1'-0"



NOTES:
1. REFER TO TECHINCAL DATA SHEETS FOR ADDITIONAL INFORMATION.

33 WATER PROOFING AT WALL TO SLAB

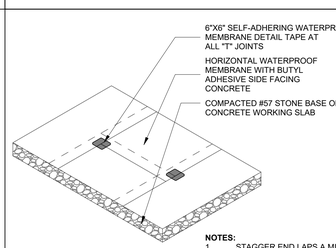
6" = 1'-0"



NOTES:
1. FOR SIDE LAPS, INSTALL SHEETS OF VERTICAL WATERPROOF MEMBRANE WITH A MINIMUM 3" SIDE OVERLAP WITH 1/8"- 1/4" OF EXPOSED ADHESIVE. ENSURE THE MEMBRANE LAYS FLAT AND NO OPENINGS ARE VISIBLE. STAGGER END LAPS. REMOVE THE RELEASE LINERS ON THE SELF-ADHERING WATERPROOF MEMBRANE SEAM TAPE, FOR END LAP, AND FACTORY APPLIED TAPE (FAT) MATING THE TWO SHEETS TOGETHER. AFTER THE SEAM IS FULLY CONSTRUCTED, ROLL THE SEAM WITH A HARD RUBBER ROLLER.
2. FOR SHOTCRETE APPLICATION, THE SHOTCRETE COMPANY MUST BE A LICENSED COMPANY AND THE NOZZELMAN MUST BE ACI CERTIFIED.
3. REFER TO TECHNICAL DATA SHEETS FOR ADDITIONAL INFORMATION.

13 TYPICAL VERT. WATERPROOFING LAP

6" = 1'-0"

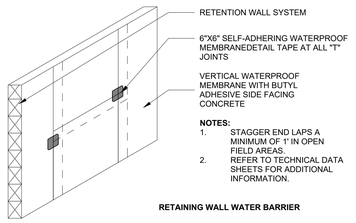


NOTES:
1. STAGGER END LAPS A MINIMUM OF 1' IN OPEN FIELD AREAS.
2. REFER TO TECHNICAL DATA SHEETS FOR ADDITIONAL INFORMATION.

UNDERSLAB WATER BARRIER

34 BELOW GRADE HORIZONTAL LAP

6" = 1'-0"

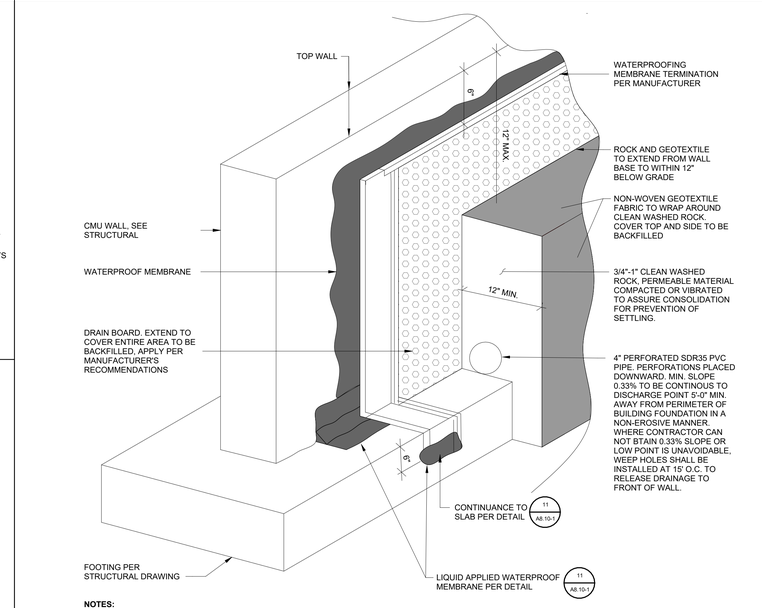


NOTES:
1. STAGGER END LAPS A MINIMUM OF 1' IN OPEN FIELD AREAS.
2. REFER TO TECHNICAL DATA SHEETS FOR ADDITIONAL INFORMATION.

RETAINING WALL WATER BARRIER

35 BELOW GRADE VERTICAL LAP

6" = 1'-0"



NOTES:
1. CLEAN WASHED ROCK TO BE TOPPED WITH 12 INCHES OF COMPACTED NATIVE SOILS.
2. INSTALL WATER PROOFING MATERIAL IN CONFORMANCE WITH MANUFACTURER SPECIFICATION.
3. SEAL ALL SEAMS OF MEMBRANE WITH FLEXIBLE SEALANT TAPE PER MANUFACTURERS RECOMMENDATIONS.
4. CONTRACTOR TO VERIFY WATERPROOFING DETAILS AND WARRANTY WITH MANUFACTURER PRIOR TO INSTALLATION. BASIS OF DESIGN MANUFACTURER IS CARLISLE OR EQUIVALENT.

25 BELOW GRADE WATERPROOFING

1/16" = 1'-0"

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DATE: 9/30/2025

AGD
ARCHITECTURE | DESIGN
ANDREW GOODWIN DESIGNS
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REVISIONS

REV #	REV DATE	REV DESCRIPTION

SEAL

LICENSED ARCHITECT
ANTONIO PAVONE
C-39038
REN: 9/30/2025
STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
INCREMENT 1 AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

BUILDING P BELOW GRADE DETAILS

PHASE DESCRIPTION
100% CD - DSA APPROVAL
INCREMENT 1

DATE: 9/24/2025

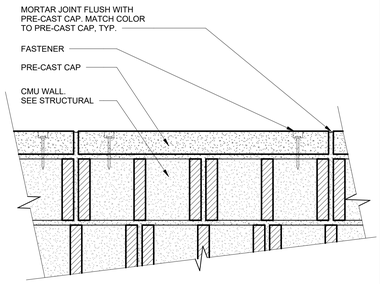
TECHNICIAN: RT / JL

PROJECT MANAGER: TP

JOB NUMBER: 791

SHEET NUMBER
A8.10-1

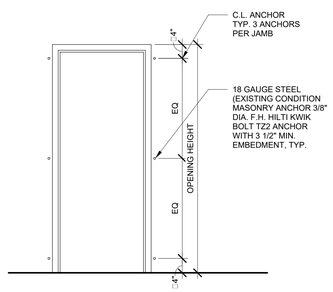
PLOT DATE: 9/19/2025 5:36:29 PM



NOTE:
1. PRE-CAST CAP END SHALL ALIGNWITH MORTAR OR CONTROL JOINT
2. SEE DETAILS 42 A8.20-1 & 43 A8.20-1 FOR ADDITIONAL INFORMATION

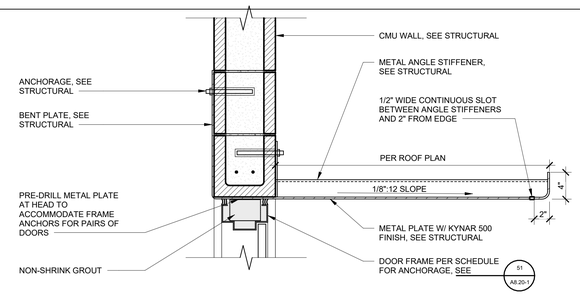
61 PARAPET CAP ALIGNMENT
1 1/2" = 1'-0"

NOTE:
1. PROVIDE 2 ANCHORS AT HEAD OF FRAMES FOR PAIRS OF DOORS, ALLOW FOR VERTICAL DEFLECTION
2. PROVIDE ANCHORING SYSTEM PER MANUFACTURERS RECOMMENDATIONS

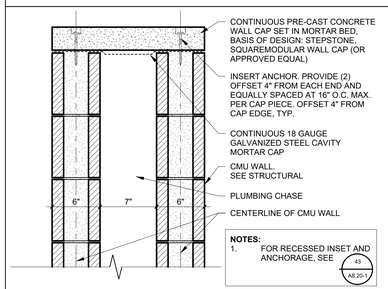


SINGLE FRAME

51 F.G DOOR FRAME ANCHOR AT CMU
1 1/2" = 1'-0"

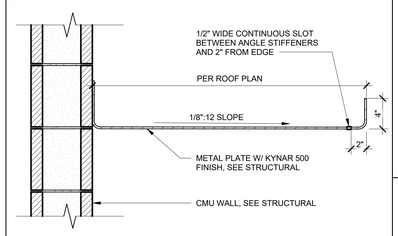


41 CANOPY AT OPENING
1 1/2" = 1'-0"



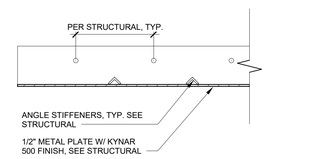
NOTES:
1. FOR RECESSED INSET AND ANCHORAGE, SEE 43 A8.20-1

42 PLUMBING CHASE WALL
1 1/2" = 1'-0"



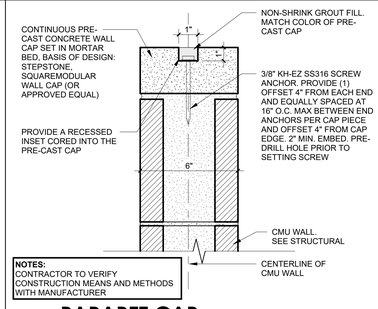
NOTES:
1. SEE STRUCTURAL FOR ANCHORAGE TO CMU WALL

32 CANOPY AT WALL
1 1/2" = 1'-0"



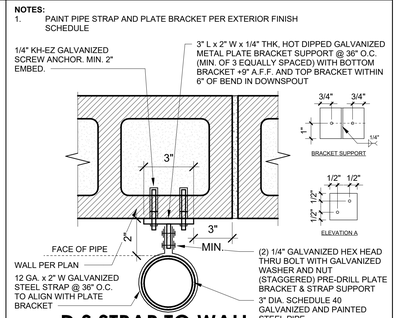
NOTES:
1. SEE STRUCTURAL FOR ANCHORAGE TO CMU WALL

52 STEEL CANOPY RAKE
1 1/2" = 1'-0"

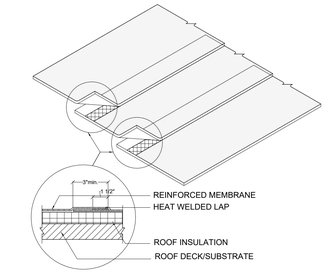


NOTES:
CONTRACTOR TO VERIFY CONSTRUCTION MEANS AND METHODS WITH MANUFACTURER

43 PARAPET CAP
3" = 1'-0"

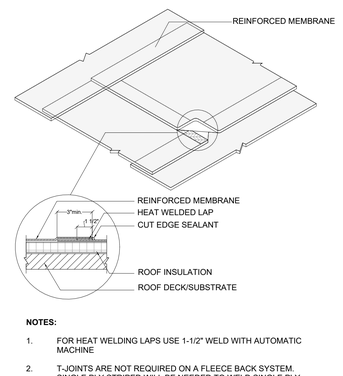


33 D.S STRAP TO WALL
3" = 1'-0"



NOTE:
1. FOR HEAT WELDING LAPS USE 1 1/2" WELD WITH MACHINE AUTOMATIC MACHINE WELDER.
2. APPLY TPA CUT EDGE SEALANT TO ALL CUT REINFORCED TPO AND PVC EDGES PER MANUFACTURERS REQUIREMENTS.

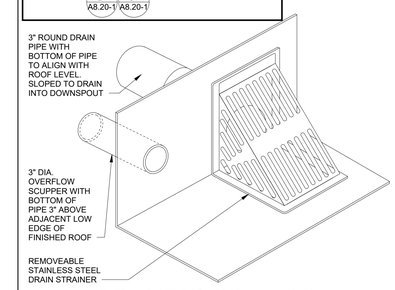
21 SIDE LAP DETAIL
1" = 1'-0"



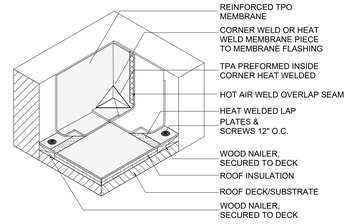
NOTES:
1. FOR HEAT WELDING LAPS USE 1-1/2" WELD WITH AUTOMATIC MACHINE
2. T-JOINTS ARE NOT REQUIRED ON A FLEECE BACK SYSTEM. SINGLE PLY STRIPED WILL BE NEEDED TO WELD SINGLE PLY TOGETHER.
3. APPLY TPA CUT EDGE SEALANT TO ALL CUT REINFORCED TPO PER MANUFACTURERS REQUIREMENTS

22 END LAP DETAIL
1" = 1'-0"

NOTE:
1. SEE DETAIL 24 A8.20-1 & 34 A8.20-1 FOR ADDITIONAL INFORMATION.

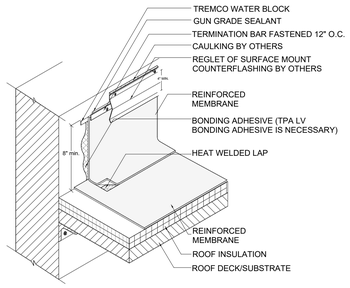


11 SCUPPER & DRAIN PIPE
3" = 1'-0"



NOTES:
1. THE FOLLOWING APPLIES FOR MECHANICALLY ATTACHED SYSTEMS ONLY: FOR INSULATION THICKNESSES GREATER THAN 8", CONTACT MANUFACTURER FOR ALTERNATE ATTACHMENT REQUIREMENTS. THESE METHODS MAY INCLUDE THE USE OF A HARD BOARD COVERING THE ASSEMBLY.
2. INSIDE CORNERS MAY ALSO BE FIELD FABRICATED USING UNREINFORCED MEMBRANE.
3. FLASHINGS MAY BE ADHERED OR INSTALLED DRY.
4. KEEP FASTENERS BACK FROM CORNER 6" MAX. IN BOTH HORIZONTAL AND VERTICAL APPLICATIONS.
5. PLATES & SCREWS 6" O.C. REQ'D FOR BA SYSTEMS.
6. APPLY TPO CUT EDGE SEALANT TO ALL CUT REINFORCED TPO EDGES PER MANUFACTURER REQUIREMENTS

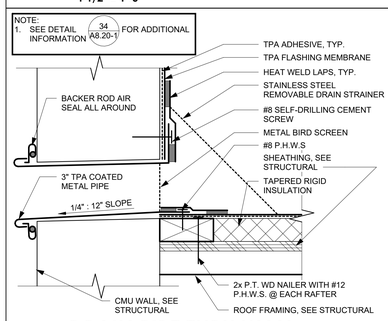
12 INSIDE CORNER REINFORCEMENT
1" = 1'-0"



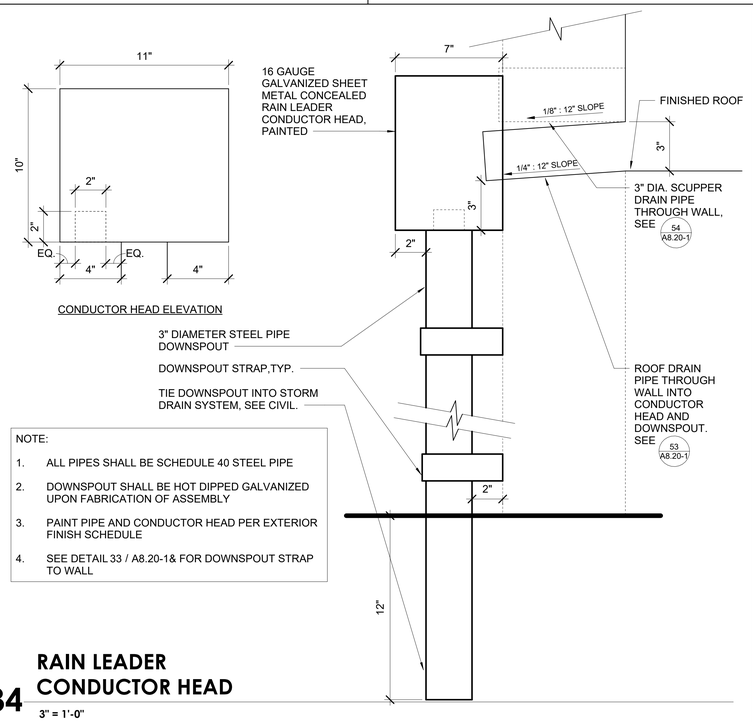
NOTES:
1. THE FOLLOWING APPLIES FOR MA SYSTEMS ONLY: FOR INSULATION THICKNESSES GREATER THAN 8" CONTACT GAF CONTRACTOR SERVICES FOR ALTERNATE ATTACHMENT REQUIREMENTS. THESE METHODS MAY INCLUDE THE USE OF A HARD BOARD COVERING THE ASSEMBLY.
2. COUNTERFLASHING REQUIRED FOR 20 YEAR SYSTEM.
3. APPLY TPO AND PVC CUT EDGE SEALANT TO ALL CUT REINFORCED TPO AND PVC EDGES PER MANUFACTURERS REQUIREMENTS

13 PARAPET WALL FLASHING W/ COUNTER FLASHING
1" = 1'-0"

NOTE:
1. SEE DETAIL 34 A8.20-1 FOR ADDITIONAL INFORMATION

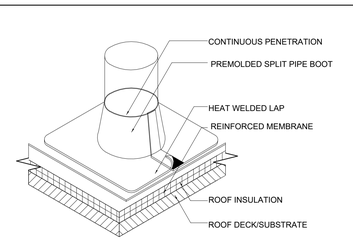


53 DRAIN PIPE THRU WALL
3" = 1'-0"



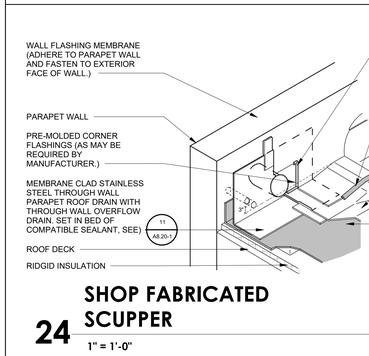
NOTE:
1. ALL PIPES SHALL BE SCHEDULE 40 STEEL PIPE
2. DOWNSPOUT SHALL BE HOT DIPPED GALVANIZED UPON FABRICATION OF ASSEMBLY
3. PAINT PIPE AND CONDUCTOR HEAD PER EXTERIOR FINISH SCHEDULE
4. SEE DETAIL 33 / A8.20-1& FOR DOWNSPOUT STRAP TO WALL

34 RAIN LEADER CONDUCTOR HEAD
3" = 1'-0"



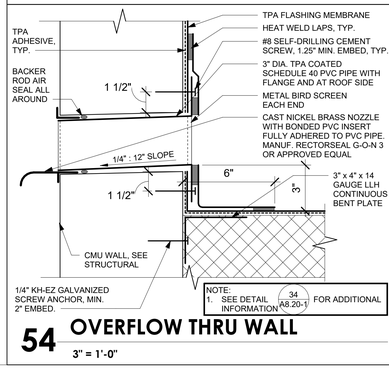
NOTES:
1. APPLY TPA CUT EDGE SEALANT TO ALL CUT REINFORCED TPO EDGES PER MANUFACTURERS REQUIREMENTS.

23 SPLIT PIPE BOOT
1" = 1'-0"



NOTE:
SEE DETAIL 34 A8.20-1 FOR ADDITIONAL INFORMATION

24 SHOP FABRICATED SCUPPER
1" = 1'-0"



NOTE:
1. SEE DETAIL 34 A8.20-1 FOR ADDITIONAL INFORMATION

54 OVERFLOW THRU WALL
3" = 1'-0"

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ANTONIO PAVONE
C-39038
REN: 9/30/2025
STATE OF CALIFORNIA

PROJECT
TRANQUILLITY HIGH SCHOOL
INCREMENT 1 AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT
GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

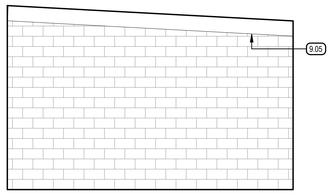
SHEET TITLE
BUILDING P ROOF DETAILS

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

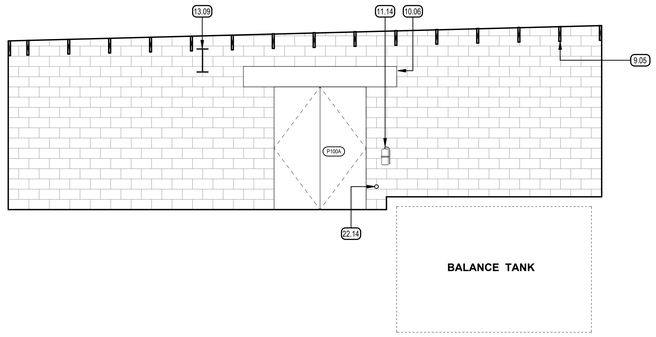
DATE: 9/24/2025
TECHNICIAN: RT / JL
PROJECT MANAGER: TP
JOB NUMBER: 791

SHEET NUMBER
A8.20-1

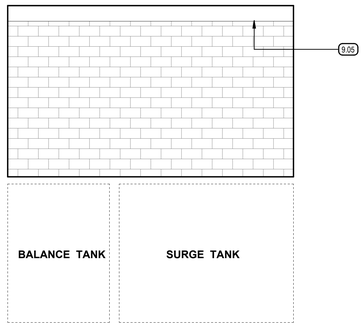
PLOT DATE: 9/19/2025 5:36:31 PM



NORTH



EAST



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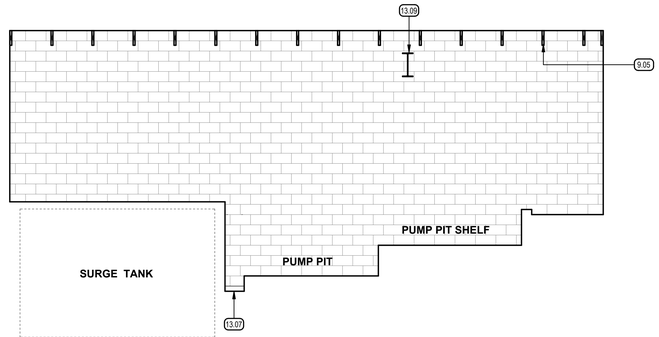

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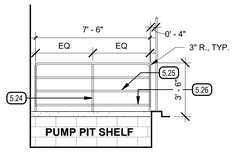

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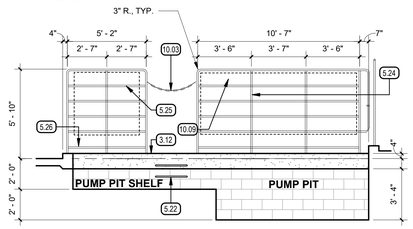

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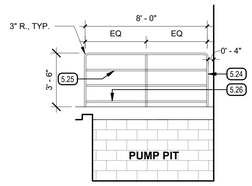

SOUTH AT PUMP IT

52 BUILDING P - INTERIOR ELEVATIONS

1/4" = 1'-0"

KEYNOTES (xx.xx)

3.12 6" CONCRETE CURB, SEE STRUCTURAL
5.22 METAL LADDER RUNG TYP. OF (2), SEE STRUCTURAL REFERENCE DETAIL 63/S4.00-1
5.24 1 1/2" DIA (1.66" O.D.) SCH. 80 GALV. PIPE, POSTS, AND RAILS. SPACE POSTS EQUALLY AND NO GREATER THAN 4'-0" O.C. MAX., TYP. SEE STRUCTURAL AND DETAIL 13/S4.01-1.
5.25 1 1/2" SCHED. 40 GALV. PIPE HORIZONTAL RAIL, SPACE EQUALLY AND NO GREATHER THAN 12" O.C. MAX. TYP.
5.26 1 1/2" SCHED. 40 GALV. PIPE BOTTOM RAIL, 4" MAX HEIGHT FROM CENTER OF RAIL TO TOP OF CURB
9.05 ROOF FRAMING, SEE STRUCTURAL
10.03 VINYL COATED. METAL CHAIN LINK ACCESS WITH SPRING SNAP HOOK
10.06 METAL PLATE CANOPY SUPPORT, SEE STRUCTURAL
10.09 POOL EQUIPMENT PANEL BOARD, SEE AQUATICS AND STRUCTURE.
11.14 FIRE EXTINGUISHER PER PLAN
13.07 SUMP PIT -5'-0" A.F.F BELOW TOP OF TANK PLATFORM, SEE AQUATICS AND STRUCTURAL.
13.09 STEEL HOIST BEAM ABOVE,SEE STRUCTURAL.
22.14 HOSE BIBB, SEE PLUMBING.

LEGEND

CMU. SEE FINISH SCHEDULE

GENERAL NOTES

A. GUARDRAILS:
- AT GUARDRAILS GRIND ALL WELDS AND EDGES SMOOTH.
- ENTIRE ASSEMBLY TO BE GALVANIZED AFTER WELDING IN LARGEST SECTIONS POSSIBLE.
- SEE STRUCTURAL

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LICENSED ARCHITECT
ANTONIO PAVONE
C-39258
REN: 9/30/2025
STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
INCREMENT 1 AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
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CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

BUILDING P - INTERIOR ELEVATIONS

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: RT / JL
PROJECT MANAGER: TP
JOB NUMBER: 791

SHEET NUMBER
A9.00-1

PLOT DATE: 9/19/2025 5:36:32 PM

STRUCTURAL NOTES

GENERAL NOTES

1. THE FOLLOWING NOTES, TYPICAL DETAILS AND SCHEDULES SHALL APPLY TO ALL PHASES OF THIS PROJECT UNLESS OTHERWISE SHOWN OR NOTED.
2. SPECIFIC NOTES AND DETAILS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
3. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE MINIMUM STANDARDS OF THE 2022 EDITION OF THE CALIFORNIA BUILDING CODE (CBC) AND SUCH OTHER REGULATING AGENCIES EXERCISING AUTHORITY OVER ANY PORTION OF THE WORK. THE CONTRACTOR SHALL HAVE A CURRENT COPY OF THE CBC (PRINT OR DIGITAL VERSION) ON THE JOB SITE.
4. THE "CONTRACT OR CONSTRUCTION DOCUMENTS" SHALL CONSIST OF THESE NOTES, DETAILS, SCHEDULES, PLANS, DRAWINGS, AND SPECIFICATIONS.
5. ALL SPECIFICATIONS, INCLUDING BUT NOT LIMITED TO MATERIALS AND PRODUCTS, SHALL BE THOSE PUT FORTH IN THE "CONTRACT OR CONSTRUCTION DOCUMENTS". NO SUBSTITUTIONS SHALL BE PERMITTED TO BE USED OR ASSUMED TO BE USED IN THE BIDDING OR CONSTRUCTION PROCESS WITHOUT WRITTEN APPROVAL BY THE ENGINEER OF RECORD.
6. THE CONTRACTOR SHALL EXAMINE THE "CONTRACT OR CONSTRUCTION DOCUMENTS" AND SHALL NOTIFY THE ARCHITECT OR ENGINEER OF RECORD OF ANY DISCREPANCIES THEY MAY FIND BEFORE PROCEEDING WITH THE WORK.
7. ALL INFORMATION ON EXISTING CONDITIONS SHOWN ON DRAWINGS ARE BASED ON BEST PRESENT KNOWLEDGE AVAILABLE, BUT WITHOUT GUARANTEE OF ACCURACY. THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS AT THE SITE AND SHALL NOTIFY THE ARCHITECT OR ENGINEER OF RECORD OF ANY DISCREPANCIES BETWEEN ACTUAL SITE CONDITIONS AND INFORMATION SHOWN ON OR IN THE "CONTRACT OR CONSTRUCTION DOCUMENTS" BEFORE PROCEEDING WITH WORK.
8. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT OR ENGINEER OF RECORD OF ANY CONDITION WHICH IN THEIR OPINION MIGHT ENDANGER THE STABILITY OF THE STRUCTURE OR CAUSE DISTRESS OF THE STRUCTURE.
9. THE CONTRACTOR SHALL PROVIDE TEMPORARY BRACING AND SHORING FOR ALL STRUCTURAL MEMBERS AS REQUIRED FOR STRUCTURAL STABILITY OF THE STRUCTURE DURING ALL PHASES OF CONSTRUCTION.
10. ALL WORK SHALL CONFORM TO THE BEST PRACTICE PREVAILING IN THE VARIOUS TRADES COMPRISING WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES.
11. THESE "CONTRACT OR CONSTRUCTION DOCUMENTS" REPRESENT THE FINISHED STRUCTURE, AND DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES.
12. THE CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO ENSURE PROPER ALIGNMENT OF THE STRUCTURE AFTER THE INSTALLATION OF ALL STRUCTURAL AND FINISH MATERIALS. THIS SHALL INCLUDE ANY NECESSARY PRELOADING OF THE STRUCTURE TO DETERMINE FINAL POSITION OF THE COMPLETED WORK.
13. THESE NOTES, DETAILS, DRAWINGS AND SPECIFICATIONS (CONTRACT OR CONSTRUCTION DOCUMENTS) DO NOT CARRY NECESSARY PROVISIONS FOR CONSTRUCTION SAFETY. THESE DOCUMENTS AND ALL PHASES OF CONSTRUCTION ARE TO BE GOVERNED, AT ALL TIMES, BY APPLICABLE PROVISIONS OF THE CURRENT CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH ACT.
14. WHERE ANY CONFLICT OCCURS BETWEEN THE REQUIREMENTS OF FEDERAL, STATE AND LOCAL LAWS, CODES, ORDINANCES, RULES AND REGULATIONS, THE MOST STRINGENT SHALL GOVERN.
15. INSPECTION AND APPROVAL FOR SHOPS USED FOR FABRICATION OF STRUCTURAL LOAD BEARING MEMBERS, COMPONENTS, MATERIALS OR ASSEMBLIES SHALL CONFORM TO CBC SECTION 1704A.2.5.
    A. LABELING (AS REQUIRED OR SPECIFIED) SHALL BE PROVIDED IN ACCORDANCE WITH CBC SECTION 1703A.5,
    B. EVALUATION AND FOLLOW-UP INSPECTION SERVICES (AS REQUIRED OR SPECIFIED), SHALL CONFORM TO CBC SECTION 1703A.6.
16. THE CONTRACTOR SHALL REFER TO THE SPECIFICATIONS FOR INFORMATION NOT COVERED BY THESE DRAWINGS AND GENERAL NOTES.
17. OBSERVATION VISITS TO THE PROJECT SITE BY FIELD REPRESENTATIVES OF THE ENGINEER OF RECORD (SUPPORT SERVICES) SHALL NOT INCLUDE INSPECTIONS OF SAFETY OR PROTECTIVE MEASURES, NOR CONSTRUCTION PROCEDURES, TECHNIQUES OR METHODS. ANY SUPPORT SERVICES PERFORMED BY ENGINEER OF RECORD DURING ANY PHASE OF CONSTRUCTION, SHALL BE DISTINGUISHED FROM CONTINUOUS AND DETAILED INSPECTION SERVICES (AS REQUIRED BY ANY REGULATING GOVERNMENTAL AGENCY, E.G. THE AUTHORITY HAVING JURISDICTION) PROVIDED BY OTHERS. THESE SUPPORT SERVICES, WHETHER OF MATERIAL OR WORK, ARE PERFORMED SOLELY FOR THE PURPOSE OF ASSISTING IN QUALITY CONTROL AND IN ACHIEVING CONFORMANCE WITH CONTRACT DOCUMENTS, BUT DO NOT GUARANTEE CONTRACTOR'S PERFORMANCE AND SHALL NOT BE CONSTRUED AS SUPERVISION OF CONSTRUCTION.
18. PROVIDE OPENINGS AND SUPPORTS AS REQUIRED PER TYPICAL DETAILS AND NOTES FOR MECHANICAL, PLUMBING, AND ELECTRICAL EQUIPMENT, VENTS, DUCTS, PIPING, ETC. ALL MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT SHALL BE PROPERLY BRACED AGAINST LATERAL FORCES.
19. REFER TO DRAWINGS BY OTHER DISCIPLINES TO COORDINATE WITH STRUCTURAL DRAWINGS. ANY DISCREPANCY BETWEEN THESE DRAWINGS SHALL BE REFERRED TO THE ARCHITECT OR ENGINEER OF RECORD FOR CLARIFICATION PRIOR TO THE START OF CONSTRUCTION.
20. WRITTEN DIMENSIONS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.
21. DRAWINGS (NOTES, SCHEDULES, DETAILS AND PLANS) SHALL HAVE PRECEDENCE OVER STRUCTURAL CALCULATIONS.
22. IN THE EVENT THAT CERTAIN FEATURES OF THE CONSTRUCTION ARE NOT FULLY SHOWN ON THE DRAWINGS OR CALLED FOR IN THE GENERAL NOTES OR SPECIFICATIONS, THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS FOR SIMILAR CONDITIONS THAT ARE SHOWN OR CALLED FOR.
23. THE CONTRACTOR SHALL HAVE A COPY OF THE PROJECT GEOTECHNICAL INVESTIGATION ON THE JOB SITE.
24. ASTM DESIGNATION AND ALL STANDARDS REFER TO THE LATEST AMENDMENTS.
25. THESE STRUCTURAL "CONTRACT OR CONSTRUCTION DOCUMENTS" SHALL NOT BE MODIFIED WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER OF RECORD.
26. ONLY STRUCTURAL WORKING DRAWINGS APPROVED BY THE AUTHORITY HAVING JURISDICTION ARE PERMITTED TO BE USED FOR CONSTRUCTION ON THIS PROJECT. ALL OTHER DRAWINGS OR DOCUMENTS ARE OBSOLETE AND ARE NOT PERMITTED ON THE JOB SITE, NOR SHALL THEY BE USED FOR ANY CONSTRUCTION PURPOSES. CONTRACTORS USING UNAPPROVED DRAWINGS OR DOCUMENTS ARE SOLELY RESPONSIBLE FOR ALL WORK NOT PERFORMED IN ACCORDANCE WITH THE "APPROVED" DRAWINGS.
27. REFER TO ARCHITECTURAL DRAWINGS FOR ALL FIRE PROTECTION REQUIREMENTS.

SHOP DRAWING AND CONTRACTOR SUBMITTAL REVIEW

1. SHOP DRAWINGS OR CONTRACTOR SUBMITTALS SHOULD BE PROVIDED FOR THE FABRICATION (OR PROPORTIONING) OF THE FOLLOWING (BUT NOT LIMITED TO) COMPONENTS OR ELEMENTS,
    A. CONCRETE MIX DESIGNS
    B. MASONRY UNITS
    C. GROUT AND MORTAR MIX DESIGNS
    D. GROUT PLACEMENT PROCEDURE
    E. REINFORCING BAR
    F. STRUCTURAL STEEL
    G. ENGINEERED LUMBER
    H. SUBSTITUTE OR ALTERNATE MATERIALS (SEE GENERAL NOTE #5)
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PRODUCTION OF SHOP DRAWINGS OR CONTRACTOR SUBMITTALS, THE DISTRIBUTION OF DOCUMENTS TO THE ENGINEER OF RECORD FOR REVIEW, INCORPORATION OF ANY NOTED REVISIONS MADE BY THE ENGINEER OF RECORD INTO THE DOCUMENTS, AND FINAL APPROVAL.
3. SHOP DRAWINGS SHALL NOT BE A REPRODUCTION OF STRUCTURAL DRAWING SHEETS.
4. WHEN THE CONTRACTOR SUBMITS SHOP DRAWINGS OR OTHER SUBMITTALS TO THE ENGINEER OF RECORD FOR REVIEW, SUBMITTAL PACKAGE SHALL CONTAIN SUFFICIENT COPIES THAT THE ENGINEER OF RECORD MAY RETAIN A COMPLETE COPY OF SUBMITTAL PACKAGE.
5. THE CONTRACTOR SHALL ALLOW SUFFICIENT TIME FOR THE ENGINEER OF RECORD TO THOROUGHLY REVIEW SUBMITTAL PACKAGE (10 WORKING DAYS, MINIMUM).
6. REVIEW OF SHOP DRAWINGS OR CONTRACTOR SUBMITTAL BY ENGINEER OF RECORD DOES NOT IN ANY WAY CONSTITUTE APPROVAL OF SUBMITTAL PACKAGE. ENGINEER OF RECORD'S REVIEW IS FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT AND CONTRACT DOCUMENTS. REVIEW SHALL NOT BE CONSTRUED AS RELIEVING THE CONTRACTOR FROM COMPLIANCE WITH THE CONTRACT DOCUMENTS.

DEMOLITION

1. SAFETY NOTE:
    A. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE PERTINENT SECTIONS OF THE CONSTRUCTION SAFETY ORDERS ISSUED BY THE STATE OF CALIFORNIA, LATEST EDITION, AND ALL OSHA REQUIREMENTS,
    B. THE ENGINEER OF RECORD DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH THESE REQUIREMENTS.
    C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE DESIGN AND CONSTRUCTION OF ALL FORMS. FORMS SHALL BE ADEQUATELY BRACED AND SHORED.
2. SHORE BEAMS WHERE NECESSARY TO MAINTAIN THE STRUCTURAL INTEGRITY OF THE EXISTING STRUCTURE.
3. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND LOCATION OF ALL SHORING.
4. NOTIFY THE ENGINEER OF RECORD OF ANY DISCREPANCIES BETWEEN THE PLANS AND EXISTING STRUCTURE.
5. WHEN SAW CUTTING CONCRETE OR MASONRY, CARE SHALL BE TAKEN NOT TO OVERCUT OR DAMAGE REINFORCING BARS.

GRADING

1. WHERE NOT TO REMAIN, THE EXISTING STRUCTURES, PAVEMENTS, AND ASSOCIATED FOUNDATIONS SHALL BE REMOVED ENTIRELY FROM THE PROJECT SITE. FOLLOWING THE REMOVAL OF THESE ITEMS, DISTURBED SOILS SHALL BE MITIGATED AS DESCRIBED IN THE PROJECT GEOTECHNICAL REPORT.
2. ALL SURFACE VEGETATION AND ANY MISCELLANEOUS SURFACE OBSTRUCTIONS SHALL BE REMOVED FROM THE PROJECT AREA, PRIOR TO ANY SITE GRADING. IT IS ANTICIPATED THAT STRIPPING OF VEGETATION AND GRASS LANDSCAPE WILL INVOLVE THE UPPER 1 TO 3 INCHES. SURFACE STRIPPINGS SHALL NOT BE INCORPORATED INTO FILL UNLESS THEY CAN BE SUFFICIENTLY BLENDED TO RESULT IN AN ORGANIC CONTENT LESS THAN 3 PERCENT BY WEIGHT (ASTM D2974). STRIPPED TOPSOIL WITH AN ORGANIC CONTENT BETWEEN 3 AND 12 PERCENT BY WEIGHT, MAY BE STOCKPILED AND USED AS NON-STRUCTURAL FILL (I.E. ON LANDSCAPE AREAS). IF USED IN LANDSCAPE AREAS, SOIL WITH AN ORGANIC CONTENT BETWEEN 3 AND 12 PERCENT SHALL BE PLACED WITHIN 2 FEET OF FINISHED GRADE, AND AT LEAST 5 FEET OUTSIDE OF BUILDING PERIMETERS. SOIL WITH AN ORGANIC CONTENT GREATER THAN 12 PERCENT BY WEIGHT SHALL BE EXCLUDED FROM FILL.
3. INITIAL SITE GRADING SHALL INCLUDE A REASONABLE SEARCH TO LOCATE DISTURBED SOIL, UNDOCUMENTED FILL SOILS, DEBRIS, ABANDONED UNDERGROUND STRUCTURES, AND/OR EXISTING UTILITIES THAT MAY EXIST WITHIN THE AREA OF CONSTRUCTION. ALL UNDERGROUND UTILITIES SHALL BE REROUTED BEYOND THE PERIMETER OF THE PROPOSED IMPROVEMENTS AND ALL TRENCH BACKFILL AND ANY LOOSE SOILS GENERATED BY THE UTILITY REMOVAL SHALL BE REMOVED TO EXPOSE UNDISTURBED NATIVE SOIL. IF ANY AREAS OR POCKETS OF SOFT OR LOOSE SOILS OR VOID SPACES MADE BY BURROWING ANIMALS, UNDOCUMENTED FILL, OR OTHER DISTURBED SOIL ARE ENCOUNTERED, THEY SHALL BE EXCAVATED TO EXPOSE APPROVED UNDISTURBED NATIVE SOIL. EXCAVATIONS FOR REMOVAL OF THE ABOVE ITEMS SHALL BE DISH-SHAPED AND BACKFILLED WITH ENGINEERED FILL.
4. THE PROJECT SITE SHALL BE OVER-EXCAVATED A MINIMUM DEPTH OF 2 FEET BELOW EXISTING GROUND SURFACE OR 12 INCHES BELOW FOOTINGS, WHICHEVER IS DEEPER, TO MITIGATE DISTURBED SOILS FROM THE REMOVAL OF STRUCTURES AND FOUNDATIONS. THE LATERAL LIMITS OF THE OVER-EXCAVATION SHALL EXTEND AT LEAST 5 FEET BEYOND THE PERIMETER OF THE PROPOSED IMPROVEMENTS.
5. ALL AREAS TO RECEIVE FILL, TO SUPPORT STRUCTURES, OR CONCRETE FLATWORK SHALL BE SCARIFIED AT LEAST 12 INCHES BELOW EXPOSED SUBGRADE ELEVATION. THE SUBGRADE SOIL SHALL BE UNIFORMLY MOISTURE CONDITIONED ACCORDING TO TABLE 6.3-2 OF THE PROJECT GEOTECHNICAL REPORT, PROOF ROLLED TO DETECT SOFT OR PLIANT AREAS, AND COMPACTED TO THE REQUIREMENTS FOR ENGINEERED FILL. SOFT OR PLIANT AREAS SHALL BE MITIGATED IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL REPORT.
6. SHOULD SITE GRADING BE PERFORMED DURING OR SUBSEQUENT TO WET WEATHER, NEAR-SURFACE SITE SOILS MAY BE SIGNIFICANTLY ABOVE OPTIMUM MOISTURE CONTENT. THESE CONDITIONS COULD HAMPER EQUIPMENT MANEUVERABILITY AND EFFORTS TO COMPACT SITE SOILS TO THE RECOMMENDED COMPACTION CRITERIA. DISKING TO AERATE, CHEMICAL TREATMENT, REPLACEMENT WITH DRIER MATERIAL, STABILIZATION WITH A GEOTEXTILE FABRIC OR GRID, OR OTHER METHODS MAY BE REQUIRED TO MITIGATE THE EFFECTS OF EXCESSIVE SOIL MOISTURE AND FACILITATE EARTHWORK OPERATIONS. ANY CONSIDERATION OF CHEMICAL TREATMENT (E.G., LIME) TO FACILITATE CONSTRUCTION SHALL REQUIRE ADDITIONAL SOIL CHEMISTRY EVALUATION AND COULD AFFECT LANDSCAPE AREAS AND SOME CONSTRUCTION MATERIALS.

FOUNDATION

1. UNEXPECTED SOIL CONDITIONS: ALLOWABLE VALUES AND FOUNDATION DESIGN ARE BASED UPON SOIL CONDITIONS SHOWN BY TEST BORINGS AS PRESENTED IN THE PROJECT GEOTECHNICAL INVESTIGATION. ACTUAL SOIL CONDITIONS WHICH DEVIATE FROM THAT SHOWN IN THE TEST BORINGS SHALL BE REPORTED TO THE PROJECT GEOTECHNICAL ENGINEER IMMEDIATELY.
2. SEE PROJECT GEOTECHNICAL INVESTIGATION FOR COMPACTION, FILL, BACKFILLING, AND SITE PREPARATION REQUIREMENTS AND PROCEDURES.
3. EXCAVATE ALL FOUNDATIONS TO REQUIRED DEPTHS INTO COMPACTED FILL OR NATURAL SOIL.
    A. ALL FOUNDATION EXCAVATIONS SHALL BE INSPECTED AND APPROVED BY THE PROJECT GEOTECHNICAL ENGINEER, PRIOR TO FORMING AND PLACEMENT OF REINFORCING AND/OR CONCRETE.
    B. FOUNDATION EXCAVATIONS SHALL BE CUT SQUARE AND SMOOTH WITH FIRM LEVEL BOTTOMS.
    C. CARE SHALL BE TAKEN NOT TO OVER-EXCAVATE FOUNDATIONS AT LOWER ELEVATIONS AND PREVENT DISTURBING SOILS AROUND HIGHER ELEVATIONS.
4. FOOTINGS SHALL BE POURED IN NEAT EXCAVATIONS, WITHOUT SIDE FORMS WHENEVER POSSIBLE.
5. MOISTEN SIDES AND BOTTOM OF EXCAVATIONS SEVERAL TIMES PRIOR TO CONCRETE PLACEMENT.
6. FOUNDATIONS SHALL NOT BE POURED UNTIL ALL REQUIRED REINFORCING BAR, SLEEVES, INSERTS, CONDUITS, PIPES, FORMWORK, ETC. ARE PROPERLY PLACED AND INSPECTED BY THE AUTHORITY HAVING JURISDICTION.
7. DE-WATER FOOTING EXCAVATIONS AND FOUNDATION BLOCK-OUTS TO MAINTAIN DRY WORKING CONDITIONS.

REINFORCING BAR

1. ALL REINFORCING BAR SHALL BE DEFORMED INTERMEDIATE GRADE BARS CONFORMING TO ASTM A615, GRADE 60 (F_y = 60 KSI) OR ASTM A706 GRADE 60 (F_y = 60 KSI), UNLESS NOTED OTHERWISE.
    A. GRADE 40 (F_y = 40 KSI) MAY BE USED FOR #3 BARS AND SMALLER.
    B. TENSILE STRENGTH REQUIREMENTS FOR ASTM A615 REINFORCEMENT SHALL COMPLY WITH THE TABLE BELOW

	GRADE 40	GRADE 60	GRADE 80	GRADE 100
TENSILE STRENGTH	60,000 PSI	80,000 PSI	100,000 PSI	115,000 PSI
RATIO OF ACTUAL TENSILE STRENGTH TO ACTUAL YIELD STRENGTH, MINIMUM	1.10	1.10	1.10	1.10

2. REINFORCING BAR SHALL NOT BE WELDED, UNLESS NOTED OR DETAILED OTHERWISE.
3. TO HOLD REINFORCING BARS IN THEIR TRUE POSITION AND PREVENT DISPLACEMENT, STANDARD TIE AND ANCHORAGE DEVICES SHALL BE PROVIDED. PLACING OF REINFORCEMENT SHALL CONFORM TO ACI 318-19 SECTION 26.6.2.
4. SHOP DRAWINGS FOR FABRICATION OF ANY REINFORCING BAR SHALL BE PROVIDED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER OF RECORD FOR THEIR REVIEW AND APPROVAL, PRIOR TO FABRICATION.
5. REFER TO TYPICAL DETAILS FOR MINIMUM SPLICE LENGTH AND MINIMUM RADIUS OF BEND FOR REINFORCING BAR.
6. ALL REINFORCING BAR SPLICES SHALL BE STAGGERED 24", UNLESS NOTED OR DETAILED OTHERWISE.
7. ALL REINFORCING BAR BENDS SHALL BE MADE COLD.
8. FABRICATION, ERECTION AND PLACEMENT OF REINFORCING BAR SHALL CONFORM TO CONCRETE REINFORCING STEEL INSTITUTE MANUAL OF STANDARD PRACTICE.
9. REINFORCING BAR SHALL BE CLEAN OF RUST, GREASE OR OTHER MATERIAL LIKELY TO IMPAIR BOND.
10. WELDED WIRE MESH SHALL CONFORM TO ASTM A1064. LAP ALL WIRE MESH TWO MODULES, MINIMUM.
11. WELDING OF REINFORCING BAR (WHERE SPECIFICALLY NOTED OR DETAILED) SHALL CONFORM TO ACI 318-19, SECTION 26.6.4 AND AWS D1.4. WELDED REBAR SHALL BE LOW-ALLOY STEEL CONFORMING TO ASTM A706.

CONCRETE

1. ALL CONCRETE WORK SHALL COMPLY WITH CBC CHAPTER 19A AND ACI 318-19 AND LATEST EDITION OF ACI MANUAL OF CONCRETE PRACTICE.
2. SPECIAL INSPECTION (AS REQUIRED OR SPECIFIED) SHALL CONFORM TO CBC CHAPTER 17A.
3. ALL STRUCTURAL CONCRETE SHALL BE REGULAR WEIGHT.
4. CONCRETE SHALL BE WELL GRADED AND MEET THE FOLLOWING MINIMUM REQUIREMENTS:

CONCRETE USE	COMP. STRENGTH (f'_c)	EXPOSURE CLASSES PER ACI 318 19.3.1	MAX. w/c RATIO	NOMINAL MAX. AGGREGATE SIZE
FOOTINGS, SLAB ON GRADE AND ELEVATED SLABS	5,000 PSI AT 28 DAYS	F0, S0, W0, C2	0.40	1"

* CONCRETE USED IN CAISSONS SHALL BE PLACED AT A SLUMP BETWEEN 6" AND 8" IN DRY EXCAVATIONS AND BETWEEN 8" AND 10" WHEN PLACED UNDER WATER. THE CONCRETE IN THE UPPER 8 FEET OF THE CAISSON SHALL BE MECHANICALLY CONSOLIDATED FOLLOWING PLACEMENT

5. CEMENT SHALL BE PORTLAND CEMENT OF EITHER TYPE BELOW;
    A. TYPE II/V, CONFORMING TO ASTM C150
    B. TYPE I WITH (HS) DESIGNATION, CONFORMING TO ASTM C595
6. FLY ASH, IF USED, SHALL CONFORM TO ASTM C618.
7. SLAG CEMENT, IF USED, SHALL CONFORM TO ASTM C989
8. FLY ASH AND SLAG CEMENT SHALL NOT BE USED IN COMBINATION. FLY ASH OR SLAG CEMENT CONTENT SHALL BE BETWEEN 15% AND 40%, BY WEIGHT. OF TOTAL CEMENTITIOUS MATERIALS AND SHALL CONFORM TO ASTM C618.
9. AGGREGATES SHALL CONFORM TO ASTM C33; PROVIDE AGGREGATES FROM A SINGLE SOURCE.
10. WATER SHALL CONFORM TO ASTM C94 AND BE POTABLE.
11. ALL SPLICES ARE TO BE CLASS B UNLESS SPECIFICALLY NOTED OTHERWISE.
12. MINIMUM CONCRETE COVER OVER REINFORCING BAR SHALL BE:

CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH OR WEATHER	3"
CONCRETE PLACED AGAINST FORMS, BUT EXPOSED TO EARTH OR WEATHER	2"
SLABS, WALL & JOISTS, NOT EXPOSED TO EARTH OR WEATHER	¾"
BEAMS, GIRDERS & COLUMNS, NOT EXPOSED TO EARTH OR WEATHER	1½"

13. LOCATION OF ALL CONSTRUCTION JOINTS, OTHER THAN SPECIFIED, SHALL BE APPROVED BY ARCHITECT/ENGINEER OF RECORD PRIOR TO POURING. CONSTRUCTION JOINTS SHALL BE THOROUGHLY AIR AND WATER CLEANED AND HEAVILY ROUGHENED TO A ¼" AMPLITUDE TO EXPOSE COARSE AGGREGATES. ALL SURFACES TO RECEIVE CONCRETE SHALL BE MAINTAINED CONTINUOUSLY WET AT LEAST THREE HOURS IN ADVANCE OF POURING.
14. ALL REINFORCING STEEL, ANCHOR BOLTS, DOWELS, INSERTS AND ANY OTHER HARDWARE TO BE SET IN CONCRETE SHALL BE WELL SECURED IN POSITION PRIOR TO POURING OF CONCRETE.
15. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM ARCHITECT/ENGINEER OF RECORD PRIOR TO PLACING SLEEVES, PIPES, DUCTS, CHASES, CORING AND OPENINGS ON OR THROUGH STRUCTURAL CONCRETE BEAMS, WALLS, FLOORS AND ROOF SLABS, UNLESS SPECIFICALLY DETAILED OR NOTED. ALL PIPES OR CONDUITS PASSING THROUGH CONCRETE MEMBERS SHALL BE SLEEVED WITH STANDARD STEEL PIPES. SEE TYPICAL DETAIL FOR PIPE THROUGH FOOTING.
16. VIBRATE ALL CONCRETE (INCLUDING SLABS ON GRADE) AS IT IS PLACED, WITH A MECHANICAL VIBRATOR OPERATED BY EXPERIENCED PERSONNEL. THE VIBRATOR SHALL BE USED TO CONSOLIDATE CONCRETE, NOT TRANSPORT IT. REINFORCING AND FORMS SHALL NOT BE VIBRATED.
17. FORMWORK DESIGN AND REMOVAL SHALL CONFORM TO ACI 318-19 SECTION 26.11. REMOVE FORMS IN ACCORDANCE WITH THE FOLLOWING MINIMUM SCHEDULE:

SIDE FORMS OF FOOTINGS	MINIMUM 48 HOURS
EDGE FORMS OF SLAB ON GRADE	MINIMUM 24 HOURS
WALL/RETAINING WALL FORMS	72 HOURS & 70% OF DESIGN STRENGTH
COLUMN FORMS	72 HOURS & 70% OF DESIGN STRENGTH
ELEVATED BEAMS AND SLABS	14 DAYS & 80% OF DESIGN STRENGTH

18. CONCRETE SHALL NOT FREE FALL MORE THAN SIX FEET. USE TREMIE, PUMP OR OTHER APPROVED METHODS.
19. CONCRETE SHALL BE MAINTAINED IN A MOIST CONDITION FOR A MINIMUM OF 5 DAYS AFTER PLACEMENT OR CONCRETE SURFACES SHALL BE CURED WITH LIQUID MEMBRANE-FORMING CURING COMPOUND CONFORMING TO ASTM C309, TYPE 1, CLASS A. CURING COMPOUND SHALL BE APPROVED BY THE ENGINEER OF RECORD.
20. THE CONTRACTOR MAY USE CONCRETE ADMIXTURES AS A CONSTRUCTION MEANS AND METHODS TO EXECUTE CONSTRUCTION DOCUMENTS. USE OF ADMIXTURE IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
21. CONCRETE MIX DESIGNS SHALL BE PREPARED BY THE CONCRETE SUPPLY PLANT. EACH MIX DESIGN SHALL BE SUBMITTED WITH CURRENT SUPPORTING DATA TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL. EACH MIX DESIGN SHALL BE STAMPED AND SIGNED BY A CIVIL OR STRUCTURAL ENGINEER LICENSED IN THE STATE OF THE PROJECT JURISDICTION.
22. ONLY ONE GRADE OF CONCRETE SHALL BE ALLOWED ON PROJECT SITE AT ANY ONE TIME.
23. UNLESS NOTED OTHERWISE, CONSTRUCTION AND CONTROL JOINTS SHALL BE PROVIDED IN ALL CONCRETE SLABS ON GRADE, AND SHALL BE LOCATED SUCH THAT THE AREA WITHIN JOINTS DOES NOT EXCEED 375 SQ. FT., AND IS ROUGHLY SQUARE.
    A. FOR ALL STRUCTURAL SLABS (SUSPENDED OR ON GRADE) WHERE ARCHITECTURALLY EXPOSED CONDITIONS ARE DESIRED, THE CONTRACTOR SHALL PROVIDE CONTROL JOINT LAYOUT FOR REVIEW BY ARCHITECT AND ENGINEER OF RECORD.
24. EVERY OPENING EXCEEDING 24" (IN EITHER DIRECTION) SHALL HAVE A MINIMUM OF 2-#5 (U.N.O.) DIRECTLY ADJACENT TO ALL SIDES AS WELL AS TOP AND BOTTOM (UNLESS AT FOUNDATION). REINFORCING BARS SHALL EXTEND A MINIMUM OF 24" PAST EDGE OF OPENING.
25. DOWEL ALL CONCRETE WALLS AND COLUMNS TO SUPPORTING CONCRETE WITH BARS OF THE SAME SIZE AND SPACING AS VERTICAL BARS IN WALL AND COLUMNS. DO NOT "HICKEY" BARS. ALL DOWELS SHALL BE VERTICAL.
26. PROVIDE A MINIMUM OF 2-#5 CONTINUOUS HORIZONTALLY AT TOPS OF WALLS AND VERTICALLY AT ENDS OF WALLS, UNLESS NOTED OTHERWISE.
27. CONCRETE STRENGTH SHALL BE VERIFIED BY STANDARD CYLINDER TESTS (IN ACCORDANCE WITH CBC SECTION 1705A.3) MADE BY A TESTING LABORATORY APPROVED BY THE AUTHORITY HAVING JURISDICTION.
28. CONCRETE PLACED WHEN THE AIR TEMPERATURE HAS FALLEN TO, OR IS EXPECTED TO FALL BELOW 40° SHALL CONFORM TO ACI 318-19 SECTION 26.5.4 AND ACI 306R-16.
29. CONCRETE PLACED DURING HOT WEATHER SHALL CONFORM TO ACI 318-19 SECTION 26.5.5 AND ACI 305R-20.
30. ALUMINUM MATERIAL SHALL NOT BE PLACE IN CONCRETE.
31. CONDUITS AND SLEEVES PLACED WITHIN STRUCTURAL CONCRETE SHALL NOT BE TIED DIRECTLY TO STRUCTURAL REINFORCEMENT.
    A. 1" CLEAR DISTANCE SHALL BE MAINTAINED BETWEEN CONDUITS/SLEEVES AND REINFORCING BAR.

MASONRY

1. MASONRY SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'_m) OF 2,000 PSI. ALL MASONRY CONSTRUCTION SHALL BE SOLID GROUTED AND CONFORM TO PART 2 OF TMS 602-16.
    A. A.A.C. (AUTOCLAVED AERATED CONCRETE) MASONRY UNITS AND CONSTRUCTION ARE NOT ALLOWED.
2. MASONRY UNITS:
    A. CONFORM TO CBC SECTION 2103A.1 AND ASTM C90, LOAD BEARING CONCRETE MASONRY UNITS.
    B. OPEN-END MASONRY UNITS (SPEED BLOCK) ARE ACCEPTABLE (EXCEPT IN ARCHITECTURALLY EXPOSED CONDITIONS).
    C. MASONRY UNITS WITH HOLLOW HEAD JOINTS ARE NOT PERMITTED FOR CONSTRUCTION.
    D. MEDIUM-WEIGHT AGGREGATE.
    E. UNIT SHALL HAVE A MINIMUM NET COMPRESSIVE STRENGTH OF 2,000 PSI
3. MORTAR:
    A. MORTAR SHALL CONFORM TO CBC SECTION 2103A.2, ASTM C270, AND SECTIONS 2.1 AND 2.6A OF TMS 602-16.
    B. MORTAR SHALL BE TYPE M OR S
    C. MORTAR SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 1,800 PSI AT 28 DAYS.
4. GROUT:
    A. GROUT SHALL CONFORM TO CBC SECTION 2103A.3, ASTM C476, AND SECTION 2.2 OF TMS 602-16.
    B. GROUT SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI AT 28 DAYS.
    C. GROUT SLUMP: 8 - 11 INCHES
5. REQUIREMENTS FOR MASONRY CONSTRUCTION SHALL CONFORM TO THE FOLLOWING:
    A. MASONRY CONSTRUCTION SHALL CONFORM TO CBC SECTION 2104A AND TMS 602-16.
    B. UNLESS NOTED OTHERWISE, EVERY OPENING EXCEEDING 24" IN EITHER DIRECTION SHALL HAVE A MINIMUM OF 2-#4 HORIZONTAL DIRECTLY ABOVE AND BELOW (UNLESS AT FOUNDATION) AND VERTICAL ADJACENT TO BOTH SIDES. REINFORCING BARS SHALL EXTEND A MINIMUM OF 24" BEYOND EDGE OF OPENING.
    C. AT THE END OF ALL WALLS SHALL BE A MINIMUM OF 2-#4 VERTICAL, U.N.O.
    D. AT THE TOP OF ALL WALLS SHALL BE A MINIMUM OF 2-#3 HORIZONTAL, U.N.O.
    E. DOWEL MASONRY WALLS AND COLUMNS TO SUPPORTING CONCRETE WITH BARS OF THE SAME SIZE AND SPACING AS VERTICAL. SEE TYPICAL DETAILS FOR MINIMUM LENGTH OF SPLICE.
    F. BOND SHALL BE PROVIDED BY LAPPING UNITS IN SUCCESSIVE VERTICAL COURSES (RUNNING BOND), STACK BOND OR MECHANICAL ANCHORAGE SHALL NOT BE USED UNLESS NOTED OR DETAILED OTHERWISE.
    G. AT THE TIME OF LAYING ALL MASONRY UNITS SHALL BE FREE OF EXCESSIVE DUST AND DIRT.
    H. UNLESS NOTED OTHERWISE, BED AND HEAD JOINTS SHALL BE ⅜" THICK.
    I. GROUT SPACES SHALL BE CONSTRUCTED FREE OF MORTAR DROPPINGS, DEBRIS, LOOSE AGGREGATE, AND ANY OTHER MATERIAL DELETERIOUS TO MASONRY GROUT.
    J. MASONRY PROTRUSIONS

STRUCTURAL NOTES

STRUCTURAL COMPOSITE LUMBER AND PLYWOOD WEB JOISTS

1. ALL STRUCTURAL COMPOSITE LUMBER OR TIMBER SHALL BE OF THE FOLLOWING:
   A. STANDARD LAMINATED VENEER LUMBER (LVL) MATERIAL SHALL CONFORM TO ASTM D5456:

      F_b = 2,900 PSI
      F_v = 285 PSI
      $F_{c\perp}$ = 750 PSI
      E = 2,000,000 PSI

2. STANDARD LVL MATERIAL SHALL BE MANUFACTURED BY A COMPANY HOLDING A CURRENT CODE EVALUATION REPORT.
3. LVL MEMBERS SHALL BE END SEALED AGAINST THE ELEMENTS/WEATHER AND LOAD WRAPPED FOR PROTECTION DURING SHIPMENT.
4. LVL BEAMS AND JOISTS SHALL HAVE STANDARD CAMBER, UNLESS NOTED OTHERWISE.
5. LVL MEMBERS SHALL NOT BE NOTCHED OR HAVE HOLES DRILLED THROUGH, UNLESS NOTED OTHERWISE,
6. LVL MATERIAL MAY BE RE-SAWN IN DEPTH AT SPECIFIC LOCATIONS AS SPECIFIED ON THE FRAMING PLAN.
   A. CAUTION MUST BE TAKEN TO ASSURE THAT ALL GRADE STAMP INFORMATION IS MAINTAINED WHEN MEMBER DEPTH IS ALTERED.
   B. DEPTH DIMENSIONS OF FINISHED PIECES SHALL MAINTAIN TOLERANCES NO GREATER THAN ±1/16".
   C. NO CAMBER OR CURVATURE THAT EXCEEDS ½" PER 48 FEET OF LENGTH IN THE FINISHED BEAM SHALL BE INTRODUCED BY CUTTING.
   D. MATERIAL SHALL BE DRY WHEN RE-SAWN.
   E. RE-SAWING OF MATERIAL MAY REMOVE MANUFACTURER APPLIED SEALANT USED TO MINIMIZE SWELLING. ONCE MATERIAL HAS BEEN RE-SAWN, PRODUCT SHALL BE KEPT DRY AND PROTECTED, AND AVOID PROLONGED EXPOSURE TO MOISTURE. APPLICATION OF WOOD SEALER SHALL BE PROVIDED WHERE DELAY IN INSTALLATION IS EXPECTED.
7. ALL PREFABRICATED PLYWOOD WEB JOISTS (I-JOISTS) SHALL CONFORM TO ASTM D5055.
   A. PLYWOOD WEB JOISTS SHALL BE MANUFACTURED BY A COMPANY HOLDING A CURRENT CODE EVALUATION REPORT,
8. EACH JOIST SHALL BE LEGIBLY BRANDED, MARKED OR OTHERWISE HAVE PERMANENTLY AFFIXED THERETO THE FOLLOWING INFORMATION:
   A. JOIST SERIES
   B. CODE EVALUATION REPORT (ICC-ES OR EQUIVALENT) NUMBER
   C. MANUFACTURER'S NAME AND PLANT NUMBER
   D. DATE OF FABRICATION
   E. IDENTIFICATION OF INDEPENDENT INSPECTION AGENCY
9. SHOP DRAWINGS AND STAMPED CALCULATIONS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR THEIR REVIEW, PRIOR TO FABRICATION. CALCULATIONS SHALL BE STAMPED AND SIGNED BY A CIVIL OR STRUCTURAL ENGINEER LICENSED IN THE STATE OF THE PROJECT JURISDICTION.
10. JOISTS SHALL BEAR ON BEARING WALLS ONLY.
11. INTERIOR NON-BEARING WALLS SHALL BE ISOLATED FROM VERTICAL TRUSS LOADS.
12. JOISTS SHALL BE BLOCKED AS PER MANUFACTURER'S RECOMMENDATIONS IN ADDITION TO:
   A. ALL BEARING POINTS
   B. RIDGE
13. JOISTS SHALL BE INSTALLED WITH ALL BRIDGING, BLOCKING, BRACING, OR BEVELED BEARING PLATES AS PER MANUFACTURER'S RECOMMENDATIONS AND CONSTRUCTION DOCUMENTS. THESE ITEMS SHALL BE INSTALLED PRIOR TO JOIST LOADING (PERMANENT OR TEMPORARY CONSTRUCTION).
14. TEMPORARY CONSTRUCTION LOADS SHALL NOT EXCEED LIVE LOADS AS SPECIFIED IN STRUCTURAL DESIGN VALUES CHART.
15. IF JOISTS ARE TO BE STORED PRIOR TO ERECTION, THEY SHALL BE STORED IN A VERTICAL POSITION AND PROTECTED FROM THE WEATHER.
16. IF ERECTION BRACING IS SPECIFIED, BRACING SHALL REMAIN IN PLACE UNTIL FLOOR/ROOF SHEATHING IS INSTALLED AND FASTENED.
17. UNLESS NOTED OTHERWISE, FRAMING BELOW NON-BEARING INTERIOR WALLS SHALL BE AS FOLLOWS:
   A. AT WALLS PARALLEL TO FLOOR FRAMING, PROVIDE FLOOR JOIST BELOW WALL.
   B. FOR WALLS PERPENDICULAR TO FLOOR FRAMING, PROVIDE I-JOIST OR 2X BLOCKING @ 24" CC BELOW WALL.
18. INSPECTION AND APPROVAL FOR FABRICATOR'S SHOPS USED FOR FABRICATION OF STRUCTURAL LOAD BEARING MEMBERS, COMPONENTS, MATERIALS OR ASSEMBLIES SHALL CONFORM TO CBC SECTION 1704A.2.5.
   A. LABELING (AS REQUIRED OR SPECIFIED) SHALL BE PROVIDED IN ACCORDANCE WITH CBC SECTION 1703A.5,
   B. EVALUATION AND FOLLOW-UP INSPECTION SERVICES (AS REQUIRED OR SPECIFIED), SHALL CONFORM TO CBC SECTION 1703A.6.

WOOD

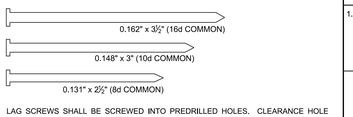
1. MINIMUM LUMBER GRADES, UNLESS NOTED OTHERWISE: DOUGLAS FIR-LARCH

2X STUDS, BLOCKING & PLATES:	
BEARING WALLS	NO. 2 OR BETTER
NON-BEARING WALLS	CONSTRUCTION OR BETTER
2X JOISTS	NO. 2 OR BETTER
4X BEAMS	NO. 2 OR BETTER
EXPOSED (INTERIOR AND EXTERIOR)	SELECT STRUCTURAL
NON-EXPOSED	NO. 2 OR BETTER
6X BEAMS:	
EXPOSED (INTERIOR AND EXTERIOR)	SELECT STRUCTURAL
NON-EXPOSED	NO, 1 OR BETTER
4X POST	NO. 2 OR BETTER
6X POST	NO. 1 OR BETTER

2. FOUNDATION SILL PLATES SHALL BE PRESERVATIVE-TREATED DOUGLAS FIR (PER CBC SECTION 2303.1.9). REFER TO PROJECT SHEARWALL SCHEDULE AND/OR FOUNDATION PLAN FOR ANCHOR BOLT SIZE AND SPACING.
3. RATED SHEATHING SHALL BE STRUCTURAL I WITH EXTERIOR GLUE, AS GRADED BY THE APA.
   A. RATED SHEATHING SHALL CONFORM TO CBC SECTION 2303.1.5
   B. OSB SHALL CONFORM TO UNITED STATES PRODUCT STANDARD PS 1 OR PS 2.
4. ALL SAWN LUMBER OR TIMBER SHALL CONFORM TO CBC SECTION 2303.1.1.
5. MAXIMUM MOISTURE CONTENT FOR ALL STRUCTURAL MEMBERS SHALL NOT EXCEED 19%, UNLESS NOTED OTHERWISE.
6. TREAT FACES OF ALL CUT PRESERVATIVE TREATED LUMBER.

WOOD FASTENERS

1. NAILING FOR FRAMING SHALL BE WITH COMMON NAILS, UNLESS NOTED OTHERWISE.



2. LAG SCREWS SHALL BE SCREWED INTO PREDRILLED HOLES. CLEARANCE HOLE FOR THE SHANK PORTION AND LEAD HOLE FOR THREADED PORTION SHALL BE DRILLED IN ACCORDANCE WITH NDS-18 SECTION 12.1.4.
3. BOLTS (BOLT HEAD AND NUT) SHALL HAVE STANDARD CAST IRON MALLEABLE IRON WASHERS (UNLESS USED WITH METAL SIDE PLATES OR ANGLES).
4. BOLT HOLES THROUGH LUMBER SHALL BE DRILLED WITH A MEASUREMENT OF 1/16" LARGER THAN BOLT DIAMETER.
5. ALL BOLTS SHALL CONFORM TO ASTM A307.
6. BOLT TIGHTENING: TAKE UP SNUG AND RE-TIGHTEN AT THE LATEST PRACTICABLE TIME DURING CONSTRUCTION.
7. NAILS SHALL NOT BE DRIVEN CLOSER THAN ½ OF THEIR LENGTH, NOT CLOSER TO THE EDGE OF THE MEMBER THAN ¼ LENGTH, EXCEPT FOR SHEATHING.
8. SUB-BORE WHEN NAILS TEND TO SPLIT WOOD. SUB-BORE FOR 20D AND LARGER NAILS. DRILL DIAMETER SHALL BE 0.75 TIMES NAIL DIAMETER.
9. FASTENERS IN PRESERVATIVE-TREATED LUMBER SHALL BE STAINLESS STEEL, SILICON BRONZE, COPPER OR HOT-DIP GALVANIZED STEEL FASTENERS.
10. ZINC-COATED FASTENERS SHALL CONFORM TO ASTM A653, TYPE G185.

CARPENTRY/FRAMING

1. CARPENTRY AND FRAMING SHALL CONFORM TO CBC SECTION 2304.
   A. REFER TO FASTENER SCHEDULE INCLUDED IN THE STRUCTURAL NOTES
2. METAL FRAMING ANGLES, ANCHORS, CLIPS, STRAPS, TIES, HOLDOWNS, ETC. SHALL BE MANUFACTURED BY SIMPSON STRONG-TIE CO. OR AN APPROVED EQUAL.
3. SHEATHING USED IN ROOFS, FLOORS AND DECKS, SHALL BE PLACED WITH FACE GRAIN PERPENDICULAR TO SUPPORTS. SHEATHING SHEETS SHALL BE STAGGERED.
4. FACE NAIL ALL DOUBLE (AND TRIPLE) 2X STUDS AND JOISTS TOGETHER WITH 16D COMMON @ 12" CC (U.N.O), STAGGER NAILS.
5. UNLESS NOTED OTHERWISE, MINIMUM SILL PLATE BOLTING SHALL BE ⅝" DIAMETER ANCHOR BOLT @ 48" CC THERE SHALL BE A MINIMUM OF TWO BOLTS PER PLATE WITH ONE BOLT WITHIN 6" TO 12" OF EACH END OF PLATE.
6. INTERIOR NON-BEARING, NON-SHEAR, STUD WALL SILL PLATES MAY BE SECURED TO CONCRETE SLABS WITH HILTI TYPE X-U SHOT PINS (WITH 1" MINIMUM EMBEDMENT) @ 16" CC WITH STEEL WASHERS. INSTALLATION SHALL CONFORM TO ICC-ES ESR-2269.
7. IN GENERAL, SHEATHING PANEL EDGES (FOR SHEARWALLS, ROOFS, FLOORS AND DECKS) SHALL BEAR ON FRAMING MEMBERS (2X MINIMUM).
8. PLACE BEAMS WITH NATURAL CAMBER UPWARD.
9. UNLESS NOTED OTHERWISE, PROVIDE CONTINUOUS DOUBLE 2X PLATES AT TOP OF ALL BEARING WALLS AND 2X SILL OR SOLE PLATE AT BOTTOM OF WALL. PLATE MATERIAL SHALL MATCH THE STUD WALL WIDTH.
10. WHERE WOOD STUD WALLS ABUT CONCRETE OR MASONRY WALLS, A PTDF END STUD SHALL BE BOLTED TO THE CONCRETE/MASONRY WITH ⅝" DIAMETER ANCHOR BOLTS. LOCATE ANCHOR BOLTS 12" FROM TOP AND BOTTOM OF STUD, AND AT 48" CC THE BOLTS SHALL BE CENTERED ON THE STUD.
11. PROVIDE SOLID BLOCKING (2X MIN.) BETWEEN ALL JOISTS AND RAFTERS AT ALL SUPPORTS AND UNDER ALL PARTITIONS. PROVIDE DOUBLE JOISTS DIRECTLY BELOW ALL INTERIOR PARTITIONS WHERE FRAMING IS PARALLEL. PROVIDE 2X SOLID BLOCKING (OR APPROVED BRIDGING) AT 8'-0" CC BETWEEN 2X12 AND LARGER JOIST AND RAFTERS. BLOCKING SHALL BE FULL DEPTH OF JOISTS AND RAFTERS.
12. NO STRUCTURAL MEMBERS (JOISTS, PLATES, STUDS, BEAMS, COLUMNS, GIRDER, POST, TRUSS, ETC,) SHALL BE NOTCHED, CUT OR DRILLED, EXCEPT FOR THOSE HOLES REQUIRED FOR BOLTING, UNLESS NOTED OTHERWISE, OR WITH WRITTEN APPROVAL FROM ENGINEER OF RECORD.
13. RATED SHEATHING SHEAR WALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CBC SECTION 2306.3. NO OPENINGS ARE ALLOWED IN SHEAR WALLS, UNLESS SPECIFICALLY NOTED OR DETAILED.
14. PROVIDE 3"X3"X¼" STEEL PLATE WASHERS AT ANCHOR BOLTS AT ALL STRUCTURAL WALLS.
15. FRAMING AROUND FLUES AND CHIMNEYS SHALL CONFORM TO CBC SECTION 2304.5.
16. PIPES IN WALLS SHALL CONFORM TO CBC SECTION 2308.5.8.

WD. FASTENING SCHEDULE

CBC T2304.10.2

Connection	Fastening (Common or box nails are permitted to be used except where otherwise stated)	Location
1. BLOCKING BETWEEN CEILING JOISTS,RAFTERS OR TRUSSES TO TOP PLATE OR OTHER FRAMING BELOW	3 - 8d COMMON (2½" x 0.131") 3 - 3" x 0.131" NAILS	EACH END, TOENAIL
BLOCKING BETWEEN RAFTERS OR TRUSS NOT AT THE WALL TOP PLATE, TO RAFTER OR TRUSS	2 - 8d COMMON (2½" x 0.131") 2 - 3" 0.131 NAILS	EACH END, TOENAIL
	2 - 16d COMMON (3½" x 0.162") 3 - 3" x 0.131" NAILS	END NAIL
FLAT BLOCKING TO TRUSS AND WEB FILLER	16d COMMON (3½" x 0.162") @ 6" CC 3" x 0.131" NAILS @ 6" CC	FACE NAIL
2. CEILING JOISTS TO TOP PLATE	3 - 8d COMMON (2½" x 0.131") 3 - 3" x 0.131" NAILS	EACH JOIST, TOENAIL
3. CEILING JOISTS NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER PARTITIONS	3 - 16d COMMON (3½" x 0.162") 4 - 3" x 0.131" NAILS	FACE NAIL
4. CEILING JOISTS TO PARALLEL RAFTER (HEEL JOINT)	PER CBC TABLE 2308.7.3.1	FACE NAIL
5. COLLAR TIE TO RAFTER	3 - 10d COMMON (3" x 0.148") 4 - 3" x 0.131" NAILS	FACE NAIL
6. RAFTER OR ROOF TRUSS TO TOP PLATE	3 - 10d COMMON (3" x 0.148") 4 - 3" x 0.131" NAILS	2 TOENAILS ON ONE SIDE AND 1 TOENAIL ON OPPOSITE SIDE OF RAFTER OR TRUSS
7. ROOF RAFTER TO RIDGE VALLEY OR HIP RAFTERS; OR ROOF RAFTER TO 2-INCH RIDGE BEAM	2 - 16d COMMON (3½" x 0.162") 3 - 3" x 0.131" NAILS	END NAIL
	3 - 10d COMMON (3" x 0.148") 4 - 3" x 0.131" NAILS	TOENAIL
8. STUD TO STUD (NOT AT BRACED WALL PANELS)	16d COMMON (3½" x 0.148")	24" CC FACE NAIL
	3" x 0.131" NAILS	16" CC FACE NAIL
9. STUD TO STUD AND ABUTTING STUDS AT INTERSECTING WALL CORNERS (AT BRACED WALL PANELS)	16d COMMON (3½" x 0.162")	16" CC FACE NAIL
	3" x 0.131" NAILS	12" CC FACE NAIL
11. CONTINUOUS HEADER TO STUD	4 - 8d COMMON (2½" x 0.131")	TOENAIL
12. TOP PLATE TO TOP PLATE	16d COMMON (3½" x 0.162")	16" CC FACE NAIL
	3" x 0.131" NAILS	12" CC FACE NAIL
13. TOP PLATE TO TOP PLATE, AT END JOINTS	8 - 16d COMMON (3½"x0.162") 12 - 3" x 0.131" NAILS	EACH SIDE OF END JOINT, FACE NAIL (MINIMUM 24" LAP SPLICE LENGTH EACH SIDE OF JOINT)
14. BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (NOT AT BRACED WALL PANELS)	16d COMMON (3½"x0.162")	16" CC FACE NAIL
	16d BOX (3½" x 0.135")	12" CC FACE NAIL
15. BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING AT BRACED WALL PANELS	2-16d COMMON (3½" x 0.162") 4 - 3" x 0.131" NAILS	16" CC FACE NAIL
16. STUD TO TOP OR BOTTOM PLATE	3 - 16d BOX (3½" x 0.135") 4 - 3" x 0.131" NAILS	TOENAIL
	2 - 16d COMMON (3½" x 0.162") 3 - 3" x 0.131" NAILS	END NAIL
17. TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	2 - 16d COMMON (3½" x 0.162") 3 - 3" x 0.131" NAILS	FACE NAIL
19. 1" x 6" SHEATHING TO EACH BEARING	2 - 8d COMMON (2½" x 0.131")	FACE NAIL
20. 1" x 8" AND WIDER SHEATHING TO EACH BEARING	3 - 8d COMMON (2½" x 0.131")	FACE NAIL
	WIDER THAN 1" x 8" 3 - 8d COMMON (2½" x 0.131")	
21. JOIST TO SILL, TOP PLATE, OR GIRDER	3 - 8d COMMON (2½" x 0.131") 3 - 3" x 0.131" NAILS	TOENAIL
22. RIM JOIST, BAND JOIST, OR BLOCKING TO TOP PLATE, SILL OR OTHER FRAMING BELOW	8d COMMON (2½" x 0.131") 3" x 0.131" NAILS	6" CC, TOENAIL
23. 1" x 6" SUBFLOOR OR LESS TO EACH JOIST	2 - 8d COMMON (2½" x 0.131")	FACE NAIL
24. 2" SUBFLOOR TO JOIST OR GIRDER	2 - 16d COMMON (3½" x 0.162")	BLIND AND FACE NAIL
25. 2" PLANKS (PLANK & BEAM - FLOOR & ROOF)	2 - 16d COMMON (3½" x 0.162")	EACH BEARING, FACE NAIL
26. LEDGER STRIP SUPPORTING JOISTS OR RAFTERS	3 - 16d COMMON (3½" x 0.162") 4 - 3" x 0.131" NAILS	EACH JOIST OR RAFTER, FACE NAIL
27. JOIST TO BAND JOIST OR RIM JOIST	3 - 16d COMMON (3½" x 0.162") 4 - 3" x 0.131" NAILS	END NAIL
28. BRIDGING OR BLOCKING TO JOIST, RAFTER OR TRUSS	2 - 8d COMMON (2½" x 0.131") 2 - 3" x 0.131" NAILS	EACH END, TOENAIL

SPECIAL INSPECTION

GENERAL NOTES

1. ALL SPECIAL INSPECTION SHALL BE PROVIDED IN ACCORDANCE WITH CBC SECTION 1704A AND 1705A.
2. REFER TO DSA 103 FOR A FULL LIST OF ITEMS REQUIRING SPECIAL INSPECTION AND TESTING.
3. WHERE SPECIAL INSPECTION IS REQUIRED, ALL INSPECTION OR TESTING SHALL BE PROVIDED BY AN "APPROVED AGENCY" IN ACCORDANCE WITH CBC SECTION 1702A.1, 1703A.1 AND 1704A.1.
4. SPECIAL INSPECTORS SHALL KEEP RECORDS OF INSPECTIONS. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE AUTHORITY HAVING JURISDICTION, AND TO THE ARCHITECT OR ENGINEER OF RECORD. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS DONE IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THE DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE AUTHORITY HAVING JURISDICTION AND TO THE ARCHITECT OR ENGINEER OF RECORD PRIOR TO THE COMPLETION OF THAT PHASE OF WORK. A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED AT A POINT IN TIME AGREED UPON BY THE PERMIT APPLICANT AND THE AUTHORITY HAVING JURISDICTION PRIOR TO THE START OF WORK.
5. SPECIAL INSPECTORS SHALL BE APPROVED BY LOCAL AUTHORITY HAVING JURISDICTION IN ACCORDANCE WITH CBC SECTION 1704A.2.1.
6. LOCAL AUTHORITY HAVING JURISDICTIONS MAY REQUIRE SPECIAL INSPECTION FOR "SPECIAL CASES" IN ACCORDANCE WITH CBC SECTION 1705A.1.1
7. CONTRACTOR'S RESPONSIBILITY: EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A MAIN LATERAL-FORCE-RESISTING SYSTEM, LISTED IN THE STATEMENT OF SPECIAL INSPECTION SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE AUTHORITY HAVING JURISDICTION AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN THE FOLLOWING:
   A. ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS;
   B. ACKNOWLEDGEMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE AUTHORITY HAVING JURISDICTION;
   C. PROCEDURES FOR EXERCISED CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING AND THE DISTRIBUTION OF THE REPORTS; AND
   D. IDENTIFICATION AND QUALIFICATIONS OF THE PERSON(S) EXERCISING SUCH CONTROL AND THEIR POSITION(S) IN THE ORGANIZATION.
7. REFER TO SPECIAL INSPECTION REQUIREMENTS BY OTHER DISCIPLINES NOT INCLUDED HEREIN.

SOILS[a]

VERIFICATION AND INSPECTION	CONT.	PERIODIC
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.		✓
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.		✓
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.		✓
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	✓	
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.		✓

NOTES: SOILS

a. CBC SECTION 1705A.6 AND TABLE 1705A.6

SPECIAL CASES[a]

VERIFICATION AND INSPECTION	CONT.	PERIODIC
ADHESIVE ANCHORS (EPOXY)		
1. INSPECTION OF ANCHORS INSTALLED IN HARDENED CONCRETE. INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS. (CONCRETE SHALL BE CURED FOR A MINIMUM OF 21 DAYS)	✓	
2. ALL OTHER INSTALLATIONS OF ADHESIVE ANCHORS.		✓
MECHANICAL ANCHORS		
1. INSPECTION OF ANCHORS INSTALLED IN HARDENED CONCRETE.		✓

NOTES: SPECIAL CASES

a. ANCHORS SHALL BE TESTED IN ACCORDANCE WITH CBC 1910A.5

CONCRETE CONSTRUCTION[ad]

VERIFICATION AND INSPECTION	CONT.	PERIODIC	REFERENCED STANDARD	CBC REFERENCE
1. INSPECT AND TEST REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.				
A. REINFORCEMENT IN SPECIAL MOMENT FRAMES, BOUNDARY ELEMENTS OF SPECIAL STRUCTURAL WALLS AND COUPLING BEAMS.	✓		ACI 318: Ch. 20, 25.2, 25.3, 25.5.1, 26.6.1 - 26.6.3, 26.13.1, 26.13.3.2, 26.13.3.3	1705A.3.9, 1908A.1, 1910A.2, 1910A.3; **[DSA-SS/CC]** 1909.2.4, 1909.2.5, 1909.4.1
B. ALL OTHER REINFORCEMENT.		✓		
2. REINFORCING BAR WELDING:				
A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706		✓	AWS D1.4	1705A.3.1, 1903A.8
B. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"; NOT DEFINED IN 2.D OR 2.E.		✓		
C. INSPECT ALL OTHER WELDS.	✓			
D. REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS AND COUPLING BEAMS OF SPECIAL STRUCTURAL WALLS OF CONCRETE AND SHEAR REINFORCEMENT.	✓		ACI 318: 18.2.8, 25.5.7, 26.6.4, 26.13.1.4, 26.13.3.2, 26.13.3.3	
E. SHEAR REINFORCEMENT.	✓			
3. INSPECT ANCHORS CAST IN CONCRETE.		✓	ACI 318: 26.7.2, 26.8.2, 26.13.1, 26.13.3.3	
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBER.[bc]				
A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARD INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	✓		ACI 318: 26.7.2, 26.13.1, 26.13.3.2	1705A.3.8, 1910A.5, **[DSA-SS/CC]** 1909.2.7
B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.A.		✓	ACI 318: 26.7.2, 26.13.1, 26.13.3.3	1705A.3.8, 1910A.5, **[DSA-SS/CC]** 1909.2.7
5. VERIFY USE OF REQUIRED DESIGN MIX.		✓	ACI 318: Ch. 19, 26.4, 26.13.3.2	1903A.5, 1903A.6, 1903A.7, 1904A.1, 1904A.2, 1910A.1, **[OSHPD 1 & 4]** 1908A.1, **[DSA-SS/CC]** 1909.2.1, 1909.2.2, 1909.2.3
6. PRIOR TO AND DURING CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	✓		ASTM C31 ASTM C172, ACI 318: 26.4, 26.5, 26.12	1705A.3.5, 1705A.3.6, 1705A.3.9, 1905A.1.17, **[DSA-SS/CC]** 1909.3.9
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	✓		ACI 318: 26.5, 26.13, ACI 506: 3.4	1705A.3.9, 1905A.1.15, 1905A.1.16, **[DSA-SS/CC]** 1909.3.7, 1909.3.8
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.		✓	ACI 318: 26.5.3-26.5.5, 26.13.3.3	
9. INSPECTION OF PRESTRESSED CONCRETE:				
A. APPLICATION OF PRESTRESSING FORCES	✓		ACI 318: 26.10.2, 26.13.1, 26.13.3.2	1705A.3,4
B. GROUTING OF BONDED PRESTRESSING TENDONS.	✓			
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.		✓	ACI 318: 26.9, 26.13.1, 26.13.3.3	
11. FOR PRECAST CONCRETE DIAPHRAGM CONNECTIONS OR REINFORCEMENT AT JOINTS CLASSIFIED AS MODERATE OR HIGH DEFORMABILITY ELEMENTS (MDE OR HDE) IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY D, E OR F, INSPECT SUCH CONNECTIONS AND REINFORCEMENT IN THE FIELD FOR:			ACI 318: 26.13.1.3	
A. INSTALLATION OF THE EMBEDDED PARTS	✓		ACI 550.5	
B. COMPLETION OF THE CONTINUITY OF REINFORCEMENT ACROSS JOINTS.	✓			
C. COMPLETION OF CONNECTIONS IN THE FIELD.	✓			
12. INSPECT INSTALLATION TOLERANCES OF PRECAST CONCRETE DIAPHRAGM CONNECTIONS FOR COMPLIANCE WITH ACI 550.5.		✓	ACI 318: 26.13.1.3	
13. 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.		✓	ACI 318: 26.10.2, 26.11.2, 26.13.3.3	
14. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.		✓	ACI 318: 26.11.1.2(b), 26.13.3.3	1908A.3, **[DSA-SS/CC]** 1909.4.3

CONCRETE CONSTRUCTION[ad] (CONTINUED)

VERIFICATION AND INSPECTION	CONT.	PERIODIC	REFERENCED STANDARD	CBC REFERENCE
NOTES: CONCRETE CONSTRUCTION				
a. WHERE APPLICABLE, SEE SECTION 1705A.13, SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE.				
b. SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH 17.6.2 IN ACI 318, OR OTHER QUALIFICATION PROCEDURES. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF THE WORK.				
c. INSTALLATION OF ALL ADHESIVE ANCHORS IN HORIZONTAL AND UPWARDLY INCLINED POSITIONS SHALL BE PERFORMED BY AN ACI/CRSI CERTIFIED ADHESIVE ANCHOR INSTALLER, EXCEPT WHERE THE DESIGN TENSION ON THE ANCHORS IS LESS THAN 100 POUNDS AND THOSE ANCHORS ARE CLEARLY NOTED ON THE APPROVED CONSTRUCTION DOCUMENTS OR WHERE THE ANCHORS ARE SHEAR DOWELS ACROSS COLD JOINTS IN SLABS ON GRADE WHERE THE SLAB IS NOT PART OF THE LATERAL FORCE-RESISTING SYSTEM.				
d. CBC SECTION 1705A.3 AND TABLE 1705A.3				

MASONRY CONSTRUCTION (LEVEL 3)

MINIMUM VERIFICATION REQUIREMENTS	REFERENCED STANDARD TMS 602
PRIOR TO CONSTRUCTION, VERIFICATION OF COMPLIANCE OF SUBMITTALS	ART. 1.5
PRIOR TO CONSTRUCTION, VERIFICATION OF f'_m	ART. 1.4 B
DURING CONSTRUCTION, VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) WHEN SELF-CONSOLIDATING GROUT IS DELIVERED TO THE PROJECT SITE	ART. 1.5 & 1.6.3
DURING CONSTRUCTION, VERIFICATION OF f'_m FOR EVERY 5,000 SQ. FT.	ART. 1.4B
DURING CONSTRUCTION, VERIFICATION OF PROPORTIONS OF MATERIALS AS DELIVERED TO THE PROJECT SITE FOR PREMIXED OR PREBLENDED MORTAR, PRESTRESSING GROUT, AND GROUT OTHER THAN SELF-CONSOLIDATING GROUT.	ART. 1.4B

VERIFICATION AND INSPECTION TASK	CONT.	PERIODIC	REFERENCED STANDARD TMS 402	REFERENCED STANDARD TMS 602
1. AS MASONRY CONSTRUCTION BEGINS, VERIFY THE FOLLOWING ARE IN COMPLIANCE:				
A. PROPORTIONS OF SITE-PREPARED MORTAR		✓		ART. 2.1, 2.6A & 2.6C
B. GRADE, TYPE, AND SIZE OF REINFORCEMENT CONNECTORS AND ANCHOR BOLTS		✓		ART. 3.4
C. SAMPLE PANEL CONSTRUCTION	✓			ART. 1.6D
2. PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:				
A. GROUT SPACE	✓			ART. 3.2D & 3.2F
B. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND ANCHOR BOLTS	✓		Sec. 6.1, 6.3.1, 6.3.6, & 6.3.7	ART. 3.2E & 3.4
C. PROPORTIONS OF SITE-PREPARED GROUT		✓		ART. 2.6B & 2.4G.1.B
3. VERIFY COMPLIANCE OF THE FOLLOWING DURING CONSTRUCTION:				
A. MATERIAL AND PROCEDURES WITH THE APPROVED SUBMITTALS		✓		ART. 1.5
B. PLACEMENT OF MASONRY UNITS AND MORTA

SPECIAL INSPECTION (CONTINUED)

POST INSTALLED ANCHOR TESTING CRITERIA

1. ALL POST-INSTALLED ANCHORS ARE TO BE TENSION TESTED WITH THE EXCEPTION THAT TORQUE TESTING IS ALLOWED IF THE ANCHORS ARE SPECIFICALLY DESIGNED AS TORQUE CONTROLLED
2. TEST QUANTITY OF POST-INSTALLED ANCHORS AS NOTED BELOW:

APPLICATION	QUANTITY
NON-STRUCTURAL (EQUIPMENT ANCHORAGE, ETC.)	50%
STRUCTURAL (ROOF TIES, BUILDING APPURTENANCES, ETC.)	100%

3. APPLY PROOF TEST LOADS TO ANCHORS WITHOUT REMOVING THE NUT IF POSSIBLE. IF NOT, REMOVE NUT AND INSTALL A THREADED COUPLER TO THE SAME TIGHTNESS OF THE ORIGINAL NUT USING A TORQUE WRENCH AND APPLY LOAD.
4. ALL TESTS SHALL BE PERFORMED IN THE PRESENCE OF THE INSPECTOR.
5. REACTION LOADS FROM TEST FIXTURES MAY BE APPLIED CLOSE TO THE ANCHOR BEING TESTED, PROVIDED THE ANCHOR IS NOT RESTRAINED FROM WITHDRAWING BY THE FIXTURE, OR RESTRICTED FROM A CONCRETE SHEAR CONE TYPE FAILURE MECHANISM.
6. TEST EQUIPMENT (INCLUDING TORQUE WRENCHES) IS TO BE CALIBRATED BY AN APPROVED TESTING LABORATORY IN ACCORDANCE WITH STANDARD RECOGNIZED PROCEDURES.
7. THE FOLLOWING CRITERIA APPLY FOR THE ACCEPTANCE OF INSTALLED ANCHORS:
   A. HYDRAULIC RAM METHOD: ANCHORS TESTED WITH A HYDRAULIC JACK OR SPRING LOADED DEVICES SHALL MAINTAIN THE TEST LOAD FOR A MINIMUM OF 15 SECONDS AND SHALL EXHIBIT NO DISCERNABLE MOVEMENT DURING THE TENSION TEST, E.G. AS EVIDENCED BY LOOSENING OF THE WASHER UNDER THE NUT.

   B. TORQUE WRENCH METHOD: ANCHORS TESTED WITH A CALIBRATED TORQUE WRENCH MUST ATTAIN THE MANUFACTURER RECOMMENDED TORQUE WITHIN ½ TURN OF THE NUT.
   EXCEPTIONS:
   - WEDGE OR SLEEVE TYPE: ONE-QUARTER TURN OF THE NUT FROM 3/8" SLEEVE ANCHOR ONLY.
   - THREADED TYPE: ONE-QUARTER TURN OF THE SCREW AFTER INITIAL SEATING OF THE SCREW HEAD.
8. IF ANY ANCHOR FAILS TESTING, TEST ALL ANCHORS OF THE SAME TYPE AND INSTALLED BY THE SAME TRADE NOT PREVIOUSLY TESTED UNTIL TWENTY (20) CONSECUTIVE ANCHORS PASS, THEN RESUME THE INITIAL TEST FREQUENCY. ANCHORS PREVIOUSLY TESTED PRIOR TO FAILED TEST SHALL NOT BE RETESTED.
9. RE-USE OF SCREW ANCHORS OR HOLES IS NOT PERMITTED.
10. TEST LOADS PER APPLICABLE EVALUATION REPORT: ICC ESR, IAPMO, OR UES.
11. WHEN INSTALLING DRILLED-IN ANCHORS AND/OR POWDER DRIVEN PINS IN EXISTING NON-PRESTRESSED REINFORCED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. WHEN INSTALLING THEM INTO EXISTING PRESTRESSED CONCRETE (PRE- OR POST-TENSIONED). LOCATE THE PRESTRESSED TENDONS BY USING A NON-DESTRUCTIVE METHOD PRIOR TO INSTALLATION. EXERCISE EXTREME CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE TENDONS DURING INSTALLATION. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE REINFORCEMENT AND THE DRILLED-IN ANCHOR AND/OR PIN.
12. TORQUE-CONTROLLED POST-INSTALLED ANCHORS AND SCREW TYPE ANCHORS SHALL BE TESTED USING TORQUE PER THE TABLE BELOW:

ANCHOR TORQUE TEST VALUES (FT-LB)*

PRODUCT AND RELEVANT EVALUATION REPORT		ANCHOR DIAMETER				
		½"	⅝"	¾"	⅞"	1"
HILTI SS KB TZ2 - TYPE 316	ESR-4266	6	30	40	60	125
	ESR-4561	6	15	15	35	50
HILTI KB TZ2 - CARBON STEEL	ESR-4266	4	30	50	40	110
	ESR-4561	4	15	25	30	50
HILTI KH-EZ - CARBON STEEL	ESR-3027	18	19	45	85	95
	ESR-3056	7	10	25	38	70
HILTI KH-EZ - TYPE 316	ESR-3027	18	19	45	85	95
	ESR-3056	2	N/A*	N/A*	N/A*	-
SIMPSON TITEN-HD - CARBON STEEL	ESR-2713	24	50	65	100	150
	ESR-1056	-	28	40	40	80

*SEE MANUFACTURER'S ESR FOR MAXIMUM IMPACT WRENCH TORQUE RATING.

13. EPOXY ANCHORS SHALL BE PROOF LOADED AS PRESCRIBED IN EACH APPLICABLE DETAIL OF THE CONSTRUCTION DOCUMENTS. ALL OTHER EPOXY ANCHORS NOT PRESCRIBED TO RECEIVE TENSION TESTS SHALL BE TESTED BASED ON THE MANUFACTURER'S RECOMMENDED INSTALLATION TORQUE BASED ON THE MANUFACTURER'S APPROVED EVALUATION REPORT.

ANCHOR INSTALLATION TORQUE VALUES (FT-LB)

PRODUCT AND RELEVANT EVALUATION REPORT		NOMINAL ROD DIAMETER				
		½"	⅝"	¾"	⅞"	1"
SIMPSON SET-3G	ESR-4057	30	60	100	125	150
	ESR-4844	25	50	80	-	-

STEEL CONSTRUCTION

VERIFICATION AND INSPECTION	CONT.	PERIODIC	REFERENCE STANDARD	2022 CBC REFERENCE
REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION				
1. MATERIAL IDENTIFICATION AND TESTING OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS:				
A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.		✓	RCSC: 1.5, AISC 360: A3.3, J3.1 AND APPLICABLE ASTM MATERIAL STANDARDS	2202A.1, [DSA-SS/ CC] 2202.1
B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.		✓	RCSC: 1.5 & 2.1; AISC 360: A3.3 & N3.2	
C. TESTING OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS.			RCSC: 7.2, APPLICABLE ASTM MATERIAL STANDARDS	1705A.2.6, [OSHPD 1 & 4] 2213A.1
2. INSPECTION OF HIGH-STRENGTH BOLTING:				
A. SNUG-TIGHT JOINTS.		✓	RCSC: 7-9, AISC 360: J3.1, J3.2, M2.5 & N5.6	1705A.2.6, 2204A.2, **[DSA-SS/ CC]** 2204.2
B. PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN-OF-NUT WITH MATCHMARKING, TWIST-OFF BOLT OR DIRECT TENSION INDICATOR METHODS OF INSTALLATION		✓		
C. PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN-OF-NUT WITHOUT MATCHMARKING OR CALIBRATED WRENCH METHODS OF INSTALLATION.	✓			
3. MATERIAL IDENTIFICATION AND TESTING OF STRUCTURAL STEEL AND COLD-FORMED STEEL DECK:				
A. FOR STRUCTURAL STEEL, IDENTIFICATION MARKINGS TO CONFORM TO AISC 360.		✓	AISC 360: A3.1	2202A.1, **[DSA-SS/ CC]** 2202.1
B. FOR OTHER STEEL, IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.		✓	APPLICABLE ASTM MATERIAL STANDARDS	2202A.1, **[DSA-SS/ CC]** 2202.1
C. MANUFACTURER'S CERTIFIED TEST REPORTS.		✓	AISC 360: A3.1& N3.2	
D. TESTING OF UNIDENTIFIED STEEL.			APPLICABLE ASTM MATERIAL STANDARDS	2202A.1, **[DSA-SS/ CC]** 2202.1
4. MATERIAL IDENTIFICATION OF WELDING CONSUMABLES AND TESTING OF WELDED ELEMENTS:				
A. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS.		✓	AISC 360, A3.5 & N3.2 and applicable AWS A5 documents	
B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.		✓	AISC 360: N3.2	
C. NONDESTRUCTIVE TESTING OF WELDED JOINTS.			AISC 360: N5.5	
5. INSPECTION OF WELDING:				
A. STRUCTURAL STEEL AND COLD FORMED STEEL DECK:				
1) COMPLETE AND PARTIAL JOINT PENETRATION GROOVE WELDS.	✓		AISC 360: J2, M2.4, & M4.5, AWS D1.1 AWS D1.8	1705A.2.1, 1705A.2.5
2) MULTI-PASS FILLET WELDS.	✓			
3) SINGLE-PASS FILLET WELDS > 5/16"	✓			
4) PLUG AND SLOT WELDS.	✓			
5) SINGLE-PASS FILLET WELDS < 5/16"		✓		
6) FLOOR AND ROOF DECK WELDS.		✓	AWS D1.3, SDI QA/QC	1705A.2.1, 1705A.2.2 1705A.2.5
7) END-WELDED STUDS.		✓	AWS D1.1	1705A.2.5, 2213A.2, **[DSA-SS/ CC]** 2212.6.2
8) WELDED SHEET STEEL FOR COLD-FORMED FRAMING MEMBERS.		✓	AWS D1.3	1705A.2.5, 1705A.2.4.1
B. REINFORCING STEEL.				TABLE 1705A.3, ITEM 2
6. INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE:				
A. DETAILS SUCH AS BRACING AND STIFFENING.		✓	AISC 360: N5.8	1705A.2.1
B. MEMBER LOCATIONS.		✓		
C. APPLICATION OF JOINT DETAILS AT EACH CONNECTION.		✓		
INSPECTION TASKS PRIOR TO WELDING				
1. WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS		✓		
2. WELDING PROCEDURE SPECIFICATIONS (WPSS) AVAILABLE	✓			
3. MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	✓			
4. MATERIAL IDENTIFICATION (TYPE/GRADE)		✓		
5. WELDER IDENTIFICATION SYSTEM[f]		✓		
6. FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY): JOINT PREPARATION, DIMENSIONS, CLEANLINESS, TACKING, BACKING TYPE AND FIT		✓		
7. CONFIGURATION AND FINISH OF ACCESS HOLES		✓		
8. FIT-UP OF FILLET WELDS: DIMENSIONS, CLEANLINESS, TACKING		✓		
9. CHECK WELDING EQUIPMENT				

STEEL CONSTRUCTION (CONTINUED)

VERIFICATION AND INSPECTION	CONT.	PERIODIC	REFERENCE STANDARD	2022 CBC REFERENCE
REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION				
INSPECTION TASKS DURING WELDING				
1. CONTROL AND HANDLING OF WELDING CONSUMABLES: PACKAGING, EXPOSURE CONTROL		✓		
2. NO WELDING OVER CRACKED TACK WELDS		✓		
3. ENVIRONMENTAL CONDITIONS: WIND SPEED WITHIN LIMITS, PRECIPITATION AND TEMPERATURE		✓		
4. WPS FOLLOWED: SETTINGS ON WELDING EQUIPMENT, TRAVEL SPEED, SELECTED WELDING MATERIALS, SHIELDING GAS TYPE/FLOW RATE, PREHEAT APPLIED, INTERPASS TEMPERATURE MAINTAINED MIN./MAX.),PROPER POSITION (F, V, H, OH)		✓		
5. WELDING TECHNIQUES: INTERPASS AND FINAL CLEANING, EACH PASS WITHIN PROFILE LIMITATIONS		✓		
6. PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS	✓			
INSPECTION TASKS AFTER WELDING				
1. WELDS CLEANED		✓		
2. SIZE, LENGTH AND LOCATION OF WELDS	✓			
3. WELDS MEET VISUAL ACCEPTANCE CRITERIA: CRACK PROHIBITION, WELD/BASE-METAL FUSION, CRATER CROSS SECTION, WELD PROFILES, WELD SIZE, UNDERCUT, POROSITY	✓			
4. ARC STRIKES	✓			
5. K-AREA[f]	✓			
6. WELD ACCESS HOLES IN HEAVY SHAPES AND BUILT-UP HEAVY SHAPES[h]	✓			
7. BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	✓			
8. REPAIR ACTIVIES	✓			
9. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	✓			
10. NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT THE APPROVAL OF THE EOR		✓		
INSPECTION TASKS PRIOR TO BOLTING[2]				
1. MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	✓			
2. FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS		✓		
3. PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)		✓		
4. PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL		✓		
5. CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS		✓		
6. PRE-INSTALLATION CERTIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED		✓		
7. PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHER AND OTHER FASTENER COMPONENTS		✓		
INSPECTION TASKS DURING BOLTING				
1. FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED		✓		
2. JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION		✓		
3. FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING		✓		
4. FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES. SEE MINIMUM BOLT PRETENSION TABLE BELOW		✓		
INSPECTION TASKS AFTER BOLTING				
1. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	✓			

NOTES: STEEL CONSTRUCTION

a. CBC SECTION 1705A.2 AND TABLE 1705A.2.2
b. CBC SECTION 1707A.11.1
c. AWS D1.3
d. AWS D1.4, ACI 318: SECTION 3.5.2
e. THE FABRICATOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, SHALL BE THE LOW-STRESS TYPE.
f. WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE K-AREA, VISUALLY INSPECT THE WEB K-AREA FOR CRACKS WITHIN 3 INCHES OF THE WELD
g. ALL METHODS OF INSTALLATION FOR HIGH STRENGTH BOLTS SHALL REQUIRE VERIFICATION OF PRE-TENSION BY A SKIDMORE-WELHELM CALIBRATOR FOR EACH BATCH OR SOURCE OF BOLTS USED (SEE MINIMUM PRE-TENSION CHART BELOW).
h. AFTER ROLLED SHAPES AND BUILT-UP HEAVY SHAPES ARE WELDED, VISUALLY INSPECT THE WELD ACCESS HOLE FOR CRACKS

MINIMUM BOLT PRETENSION (KIPS)

BOLT SIZE INCHES	GROUP A (A325, ETC.)	GROUP B, (A490, ETC.)
½" DIAMETER	12	16
⅝" DIAMETER	19	25
¾" DIAMETER	28	36
⅞" DIAMETER	39	50
1" DIAMETER	51	65
1⅛" DIAMETER	56	81
1¼" DIAMETER	71	103
1⅜" DIAMETER	85	122

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123309 INC: 1
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 9/30/2025

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REVISIONS

REV # | REV DATE | REV DESCRIPTION

SEAL

REGISTERED PROFESSIONAL ENGINEER MICHAEL E. PARKER ME 5405 STRUCTURAL STATE OF CALIFORNIA

DATE SIGNED: 08.06.2025

PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

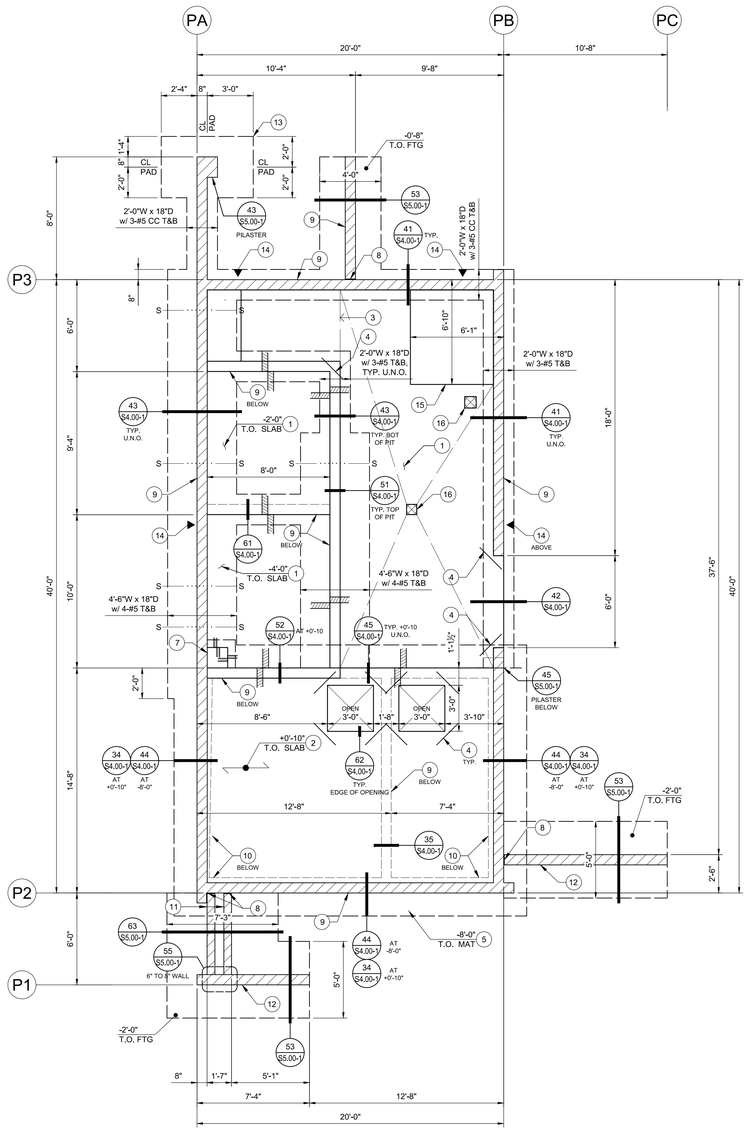
BUILDING P
SPECIAL INSPECTION

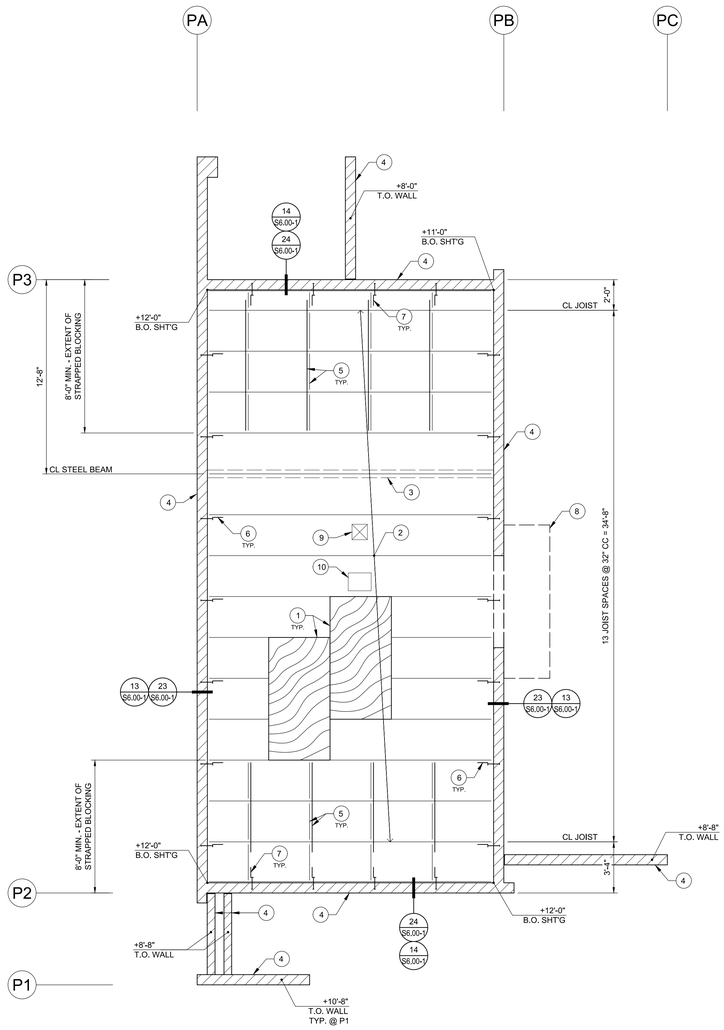
PHASE DESCRIPTION
100% CD - DSA APPROVAL
INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: JSB
PROJECT MANAGER: CLK
JOB NUMBER: S24119

SHEET NUMBER
S1.03-1

PLOT DATE:





BUILDING P - FOUNDATION PLAN

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

FOUNDATION REFERENCE NOTES: (#)

1. CONCRETE SLAB ON GRADE: 6" MIN. SLAB w/ #4 BARS @ 12" CC EACH WAY LOCATED AT MID-DEPTH OF SLAB
   A. FOR SLAB SECTION AND UNDERLAYMENT, SEE DETAIL 22/S4.00-1
   B. TOP OF SLAB ELEVATION VARIES AS NOTED ON SHEET S2.01-1.
2. CONCRETE SUSPENDED SLAB: 10" SLAB w/ #5 BARS @ 16" CC EACH WAY, T&B.
   A. FOR SLAB SECTION AND REINFORCEMENT POSITIONING, SEE DETAIL 31/S4.00-1.
   B. TOP OF SLAB ELEVATION AS NOTED ON SHEET S2.01-1.
   C. DENOTES SPAN DIRECTION OF LONGITUDINAL REINFORCING, SEE 31/S4.00-1 FOR POSITIONING AND LAYERING OF REINFORCEMENT
3. CONCRETE CONTROL JOINT AT LOCATION SHOWN, SEE DETAIL 23/S4.00-1.
4. #4 X 30" LONG TRIM BAR TYPICAL AT INTERIOR SLAB CORNERS.
5. CONCRETE MAT SLAB: 24" THICK SLAB, SEE 65/S4.00-1 FOR SLAB REINF. AND POSITIONING
   A. TOP OF SLAB ELEVATION AS NOTED ON PLAN.
7. CONCRETE SUMP - SEE DETAIL 54/S4.00-1 FOR SECTION.
8. PROVIDE ½" ISOLATION JOINT AT ADJOINING CMU WALL, SEE DETAIL 15/S5.00-1.
9. 8" NOMINAL CMU WALL SOLID GROUTED
   A. SPECIAL INSPECTION REQUIRED
   B. PROVIDE #4 @ 16" CC VERTICAL REINFORCEMENT, CENTERED IN WALL, UNLESS NOTED OTHERWISE ON CMU WALL ELEVATIONS, SHEET S3.00-1
   C. PROVIDE #4 @ 16" CC HORIZONTAL REINFORCEMENT, UNLESS NOTED OTHERWISE ON CMU WALL ELEVATIONS, SHEET S3.00-1
10. 12" NOMINAL CMU WALL SOLID GROUTED BELOW
    A. SPECIAL INSPECTION REQUIRED
    B. PROVIDE #5 @ 16" CC VERTICAL REINFORCEMENT EA. FACE, SEE 31/S5.00-1 FOR REINFORCEMENT POSITIONING IN WALL
    C. PROVIDE #4 @ 16" CC HORIZONTAL REINFORCEMENT EA. FACE
11. 6" NOMINAL CMU WALL SOLID GROUTED
    A. SPECIAL INSPECTION REQUIRED
    B. PROVIDE #4 @ 8" CC VERTICAL REINFORCEMENT
    C. PROVIDE #4 @ 16" CC HORIZONTAL REINFORCEMENT
12. 8" NOMINAL CMU WALL SOLID GROUTED
    A. SPECIAL INSPECTION REQUIRED
    B. PROVIDE #4 @ 8" CC VERTICAL REINFORCEMENT
    C. PROVIDE #4 @ 16" CC HORIZONTAL REINFORCEMENT
13. 6'-0" LONG x 4'-0" WIDE x 15" THICK CONCRETE PAD W/ #5 BARS @ 12" CC EA. WAY T&B, CENTERED UNDER MASONRY PILASTER
    A. SEE DETAIL 55/S4.00-1 FOR ATTACHMENT OF PILASTER TO FOOTING
14. LOCATION OF CMU WALL CONTROL JOINT, SEE DETAIL 13/S5.00-1.
15. CONC. HOUSEKEEPING SLAB, SEE DETAIL 53/S4.00-1
    A. TOP OF SLAB ELEVATION AS NOTED ON SHEET S2.01-1
16. PENETRATION AT SLAB FOR FLOOR DRAIN/FLOOR SINK
    A. SEE DETAIL 32/S4.00-1 FOR REINFORCEMENT AT OPENING

GENERAL FOUNDATION NOTES:

A. SEE STRUCTURAL NOTES, SHEET S1.01-1 AND S1.02-1.

B. DIMENSIONS ARE TO FACE OF CMU, U.N.O. VERIFY ALL PLANS WITH ARCHITECTURAL PLANS AND EXISTING CONDITIONS.

C. THE FOUNDATION DESIGN IS BASED ON THE MINIMUM REQUIREMENTS OUTLINED IN THE PROJECT GEOTECHNICAL REPORT BY TECHNICON ENGINEERING SERVICE, INC., DATED JUNE 12, 2024 (JOB NO. 240282.00-11)

D. PRIOR TO THE CONTRACTOR REQUESTING A D.S.A. FOUNDATION INSPECTION, THE PROJECT GEOTECHNICAL ENGINEER SHALL ADVISE D.S.A. IN WRITING THAT:
   1. THE BUILDING PAD WAS PREPARED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS AND PROJECT GEOTECHNICAL ENGINEER'S RECOMMENDATIONS
   2. THE UTILITY TRENCHES HAVE BEEN PROPERLY BACKFILLED AND COMPACTED
   3. THE FOUNDATION EXCAVATIONS COMPLY WITH THE PROJECT GEOTECHNICAL ENGINEER'S RECOMMENDATIONS AND ARE FOUNDED INTO FIRM COMPETENT MATERIAL
   4. THE SOILS EXPANSION INDEX IS VERIFIED

E. FOR DEPICTION OF BUILDING PAD PREPARATION, SEE DETAIL 11/S4.00-1,

F. SEE ARCHITECTURAL DRAWINGS FOR ALL EMBEDDED ITEMS AND NON-STRUCTURAL COMPONENTS ASSOCIATED WITH CONCRETE WORK

G. FOR TYPICAL REBAR BENDS AND LAPS, SEE DETAILS 12/S4.00-1, 13/S4.00-1 AND 14/S4.00-1.

H. FOR TYPICAL INTERSECTING FOOTING CONFIGURATION(S), SEE DETAIL 15/S4.00-1.

I. FOR TYPICAL PIPE THROUGH FOOTING, SEE DETAIL 25/S4.00-1.

J. FOR TYPICAL FOOTING STEP, SEE DETAIL 33/S4.00-1.

BUILDING P - ROOF FRAMING PLAN

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

ROOF FRAMING REFERENCE NOTES: (#)

1. TYPICAL ROOF SHEATHING: 15/32" NOMINAL STRUCTURAL I PLYWOOD SHEATHING
   A. ALL EDGES BLOCKED, SEE DETAIL 11/S6.00-1
   B. LAY PANELS WITH FACE GRAIN PERPENDICULAR TO SUPPORTS, STAGGER SHEETS
   C. PANEL INDEX 32/16
   D. USE EXTERIOR GRADE WHERE SHEATHING IS EXPOSED TO WEATHER
   E. FASTEN WITH 10d @ 6:6:12" CC
   F. NAILS SHALL PENETRATE MINIMUM 1½" INTO SUPPORT MEMBER
2. TYPICAL ROOF JOIST: 1¾" x 11⅞" LVL @ 32" CC
   A. INSTALL IN SIMPSON HUS1.81/10 JOIST HANGERS
3. S8x18.4 STEEL BEAM BELOW, SEE 22/S6.00-1 FOR ATTACHMENT TO WALL
   A. B.O. STEEL BEAM = 9'-0"
4. CONCRETE BLOCK WALL, SOLID GROUTED
   A. SPECIAL INSPECTION REQUIRED
   B. REFER TO FOUNDATION REFERENCE NOTES AND WALL ELEVATIONS FOR REQUIRED REINFORCEMENT
5. SIMPSON CS16 STRAP @ 48" CC ACROSS TOP OF 2x8 BLOCKING FOR EXTENT SHOWN
   A. SEE DETAIL 14/S6.00-1
   B. PLACEMENT OF BLOCKING AND STRAPPING SHALL NOT ALIGN WITH A PLYWOOD PANEL JOINT
   C. PROVIDE 11" END LENGTH AT FIRST BLOCK, INSTALL W/ 20 - 10d x 2½" NAILS AT END LENGTH
6. WALL ANCHOR TO JOIST @ 64" CC
   A. SEE DETAIL 13/S6.00-1
   B. PROVIDE EDGE NAILING AT ANCHORED JOISTS FOR FULL LENGTH OF MEMBER
7. WALL ANCHOR TO BLOCKING @ 48" CC
   A. SEE DETAIL 14/S6.00-1
8. STEEL CANOPY ABOVE DOOR OPENING
   A. SEE 32/S6.00-1
9. MECHANICAL UNIT SUPPORTED ON TOP OF ROOF FRAMING. SEE MECHANICAL PLANS FOR ATTACHMENT TO ROOF.
   A. MAX WEIGHT OF UNIT = 30 LB
   B. SEE 12/S6.00-1 FOR STRAPPING AROUND OPENINGS IN ROOF FRAMING
10. MECHANICAL UNIT SUSPENDED FROM ROOF FRAMING BELOW. SEE MECHANICAL PLANS FOR ATTACHMENT TO ROOF
    A. MAX WEIGHT OF UNIT = 40 LB

GENERAL FRAMING NOTES:

A. SEE STRUCTURAL NOTES, SHEET S1.01-1 AND S1.02-1.

B. REFER TO ARCHITECTURAL FLOOR PLANS FOR INTERIOR NON-BEARING WALLS, SOFFITS, AND EAVE DETAILS, AND MISCELLANEOUS NON-STRUCTURAL DETAILS AND REQUIREMENTS.

C. MOISTURE CONTENT OF FRAMING MEMBERS SHALL BE VERIFIED PRIOR TO ENCLOSURE. FRAMING MEMBERS SHALL NOT BE ENCLOSED WHEN MOISTURE CONTENT EXCEEDS 19%.

D. ROOF SHEATHING SHALL BE LAID WITH FACE GRAIN PERPENDICULAR TO FRAMING AND SHEETS STAGGERED PER DETAIL 11/S6.00. PROVIDE PANEL SHEATHING CLIP (SPCL) EACH UNBRACED EDGE SPAN.

E. FOR OPENINGS IN FLOOR/ROOF DIAPHRAGMS, SEE DETAIL(S) 12/S6.00.

F. FOR PERMISSIBLE DRILLED HOLES IN LVL FRAMING, SEE DETAIL 15/S6.00.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123309 INC: 1
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 9/30/2025

AGD ARCHITECTURE | DESIGN
ANDREW GOODWIN DESIGNS
1238 MONTEREY STREET
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916 778 0084

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REVISIONS

REV #	REV DATE	REV DESCRIPTION

SEAL

REGISTERED PROFESSIONAL ENGINEER — MICHAEL E. PARKS — No. 5405 — STRUCTURAL — STATE OF CALIFORNIA
DATE SIGNED: 04.30.2025

PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

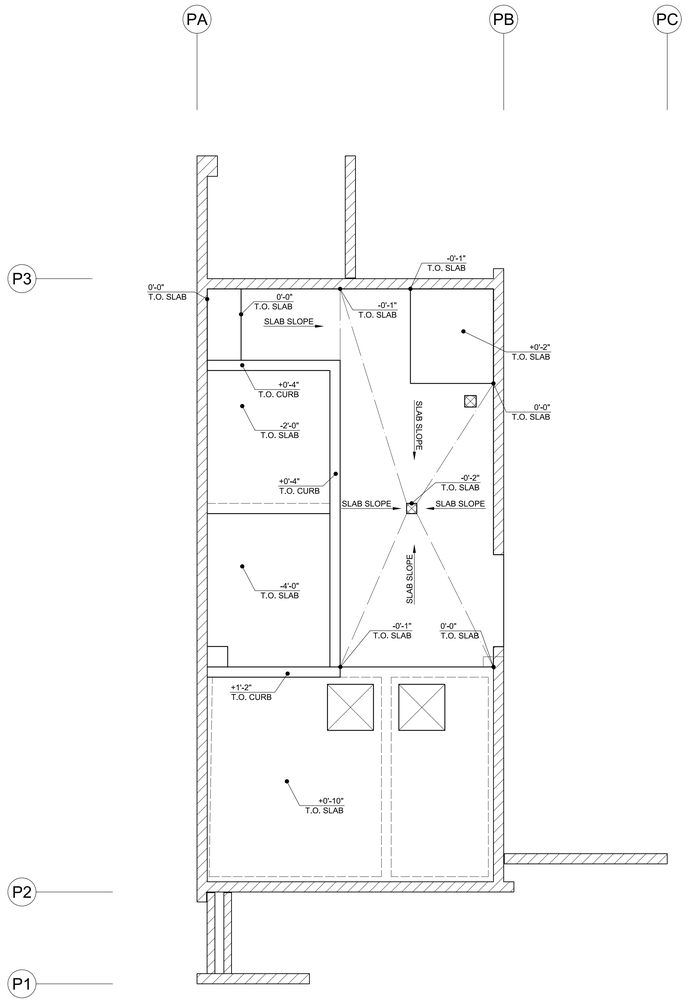
BUILDING P
FOUNDATION PLAN &
ROOF FRAMING PLAN

PHASE DESCRIPTION
100% CD - DSA APPROVAL
INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: JSB
PROJECT MANAGER: CLK
JOB NUMBER: S24119

SHEET NUMBER
S2.00-1

PLOT DATE:



BUILDING P - VERTICAL CONTROL PLAN

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

IDENTIFICATION STAMP
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APP: 02-123309 INC: 1
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 9/30/2025

AGD
ARCHITECTURE | DESIGN

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REVISIONS

REV #	REV DATE	REV DESCRIPTION

SEAL

DATE SIGNED:
08.06.2025

PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

BUILDING P
VERTICAL CONTROL PLAN

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

DATE: 9/24/2025

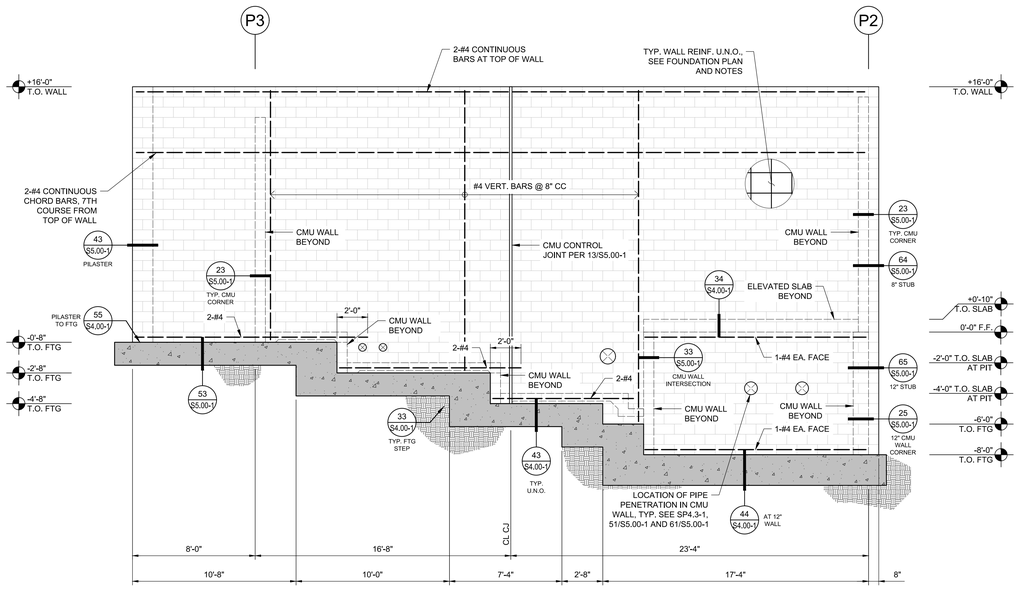
TECHNICIAN: JSB

PROJECT MANAGER: CLK

JOB NUMBER: S24119

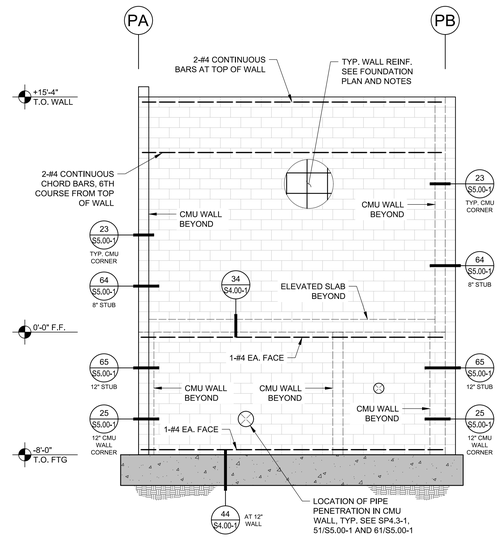
SHEET NUMBER
S2.01-1

PLOT DATE:



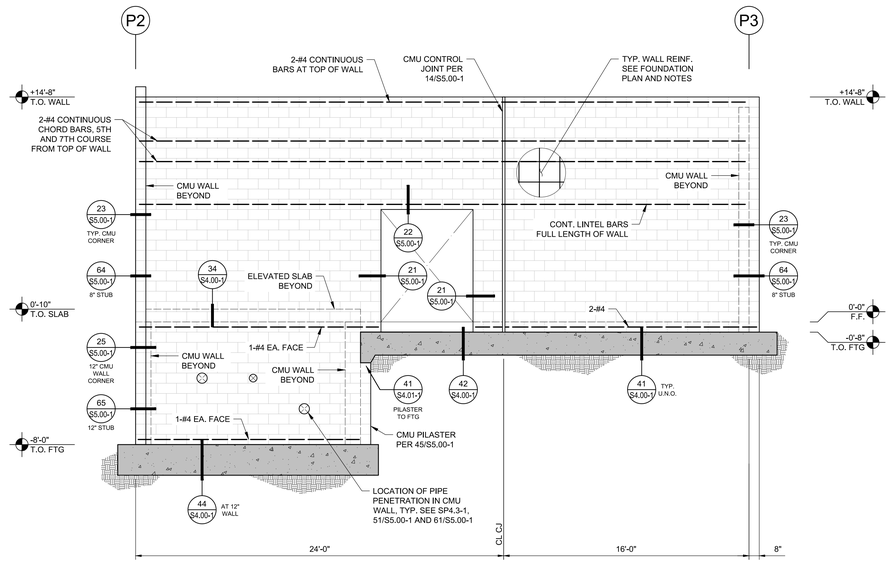
BUILDING P - SOUTHWEST ELEVATION

SCALE: 1/4" = 1'-0" (VERIFY ALL DIMENSIONS WITH ARCHITECTURAL PLANS AND EXISTING CONDITIONS)



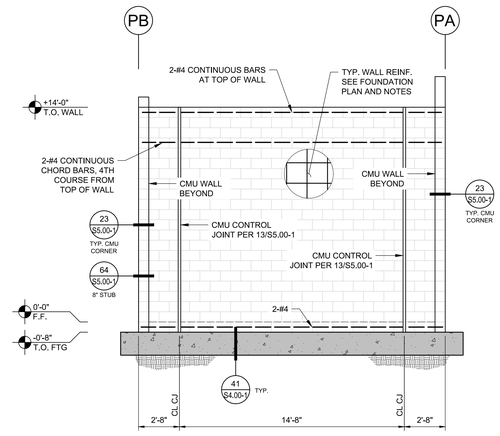
BUILDING P - SOUTHEAST ELEVATION

SCALE: 1/4" = 1'-0" (VERIFY ALL DIMENSIONS WITH ARCHITECTURAL PLANS AND EXISTING CONDITIONS)



BUILDING P - NORTHEAST ELEVATION

SCALE: 1/4" = 1'-0" (VERIFY ALL DIMENSIONS WITH ARCHITECTURAL PLANS AND EXISTING CONDITIONS)



BUILDING P - NORTHWEST ELEVATION

SCALE: 1/4" = 1'-0" (VERIFY ALL DIMENSIONS WITH ARCHITECTURAL PLANS AND EXISTING CONDITIONS)

IDENTIFICATION STAMP
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APP: 02-123309 INC: 1
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 9/30/2025

AGD ARCHITECTURE | DESIGN
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REVISIONS

REV #	REV DATE	REV DESCRIPTION

SEAL

REGISTERED PROFESSIONAL ENGINEER MICHAEL E. PADILLA No. 5405 STRUCTURAL STATE OF CALIFORNIA

DATE SIGNED: 08.06.2025

PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

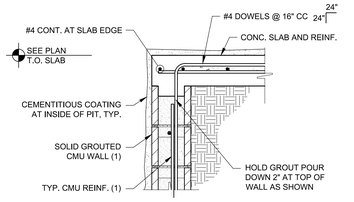
BUILDING P
EXTERIOR ELEVATIONS

PHASE DESCRIPTION
100% CD - DSA APPROVAL
INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: JSB
PROJECT MANAGER: CLK
JOB NUMBER: S24119

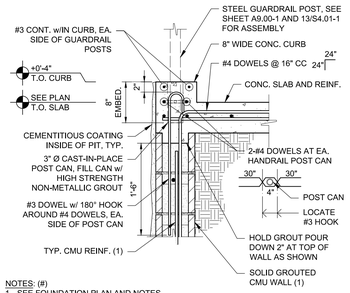
SHEET NUMBER
S3.00-1

PLOT DATE:



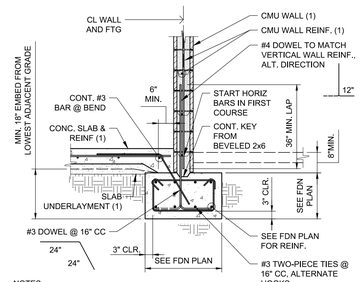
NOTES: (#)
1. SEE FOUNDATION PLAN AND NOTES

TOP OF CMU PIT WALL
N.T.S. 61



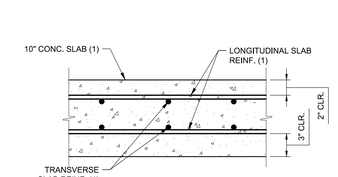
NOTES: (#)
1. SEE FOUNDATION PLAN AND NOTES

TOP OF CMU PIT WALL
N.T.S. 51



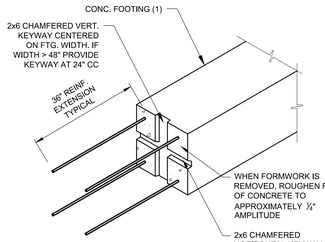
NOTES:
1. SEE FRAMING/FOUNDATION PLAN AND NOTES

8" CMU WALL FOOTING
N.T.S. 41



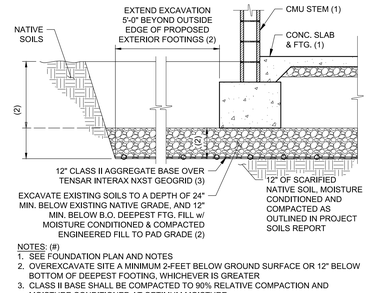
NOTES:
1. SEE FOUNDATION PLAN AND NOTES FOR SIZE, SPACING AND SPAN DIRECTION OF REINFORCING.

10" SLAB SECTION
N.T.S. 31



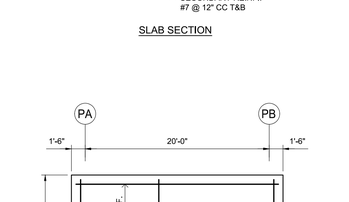
NOTES:
1. SEE FOUNDATION PLAN AND NOTES

FOOTING POUR BREAK
N.T.S. 21



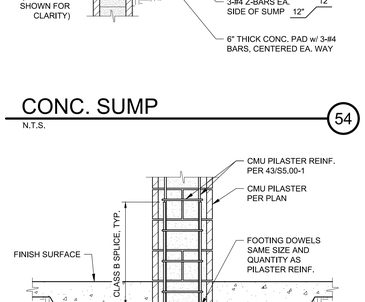
NOTES: (#)
1. SEE FOUNDATION PLAN AND NOTES
2. OVEREXCAVATE SITE A MINIMUM 2-FEET BELOW GROUND SURFACE OR 12" BELOW BOTTOM OF DEEPEST FOOTING, WHICHEVER IS GREATER
3. CLASS II BASE SHALL BE COMPACTED TO 90% RELATIVE COMPACTION AND MOISTURE CONDITIONED AT OPTIMUM MOISTURE

OVER-EXCAVATION (BUILDING)
N.T.S. 11



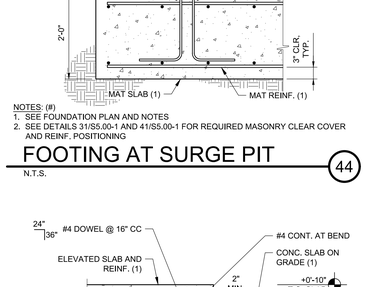
NOTES: (#)
1. FRAME AREAS IN CONTACT WITH CONCRETE SHALL BE COATED WITH BITUMINOUS PAINT

EDGE OF HATCH OPENING
N.T.S. 62



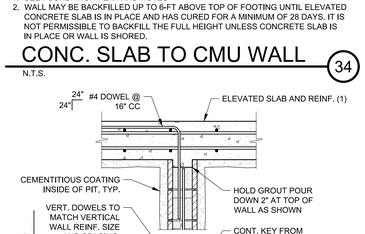
NOTES: (#)
1. SEE FOUNDATION PLAN AND NOTES

TOP OF CMU PIT WALL
N.T.S. 52



NOTES:
1. SEE FRAMING/FOUNDATION PLAN AND NOTES

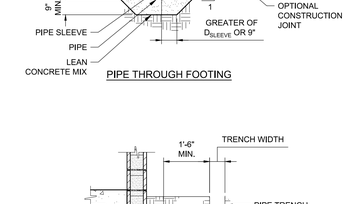
8" CMU WALL FOOTING
N.T.S. 42



PLAN VIEW

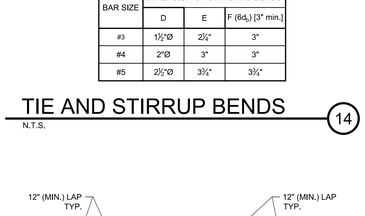
NOTES:
1. SEE FOUNDATION PLAN AND NOTES
2. SEE ARCHITECTURAL PLANS

OPENING IN S.O.G.
N.T.S. 32



NOTES:
1. SEE FOUNDATION PLAN AND NOTES
2. SEE SHEET S1.01-1 FOR GRADING REQUIREMENTS
3. SUB GRADE SHALL BE PREPARED AS REQUIREMENTS OF PROJECT GEOTECHNICAL REPORT, SEE ALSO 11/S4.00-1
4. SEE TYPICAL SLAB POUR SEQUENCE DETAILS FOR SLAB ON GRADE POURING SEQUENCE, CONTROL JOINTS, AND CONSTRUCTION JOINTS.

6" SLAB SECTION
N.T.S. 22



BAR SIZE	CONCRETE REINFORCING SPLICES (1)(2)		
	CLASS A SPLICE (3)(4)	CLASS B SPLICE (3)	f_c (MIN.)
#3	15"	19"	40 ksi
#4	29"	38"	60 ksi
#5	36"	47"	60 ksi
#6	43"	56"	60 ksi
#7	63"	81"	60 ksi

NOTES: (#)
1. LAP LENGTHS LISTED APPLY TO ALL LOCATIONS: VERTICAL, HORIZONTAL, TOP, BOTTOM, AND SITE WALLS
2. WHERE BARS OF A DIFFERENT SIZE ARE LAPPED, THE LAP LENGTH SHALL BE THE LENGTH REQUIRED BY THE LARGER BAR
3. ALL SPLICES SHALL BE CONSIDERED CLASS B UNLESS SPECIFICALLY NOTED OTHERWISE
4. SPLICES OF SLAB ON GRADE REINFORCEMENT MAY UTILIZE CLASS A SPLICE LENGTHS

TYPICAL LAP SPLICES
N.T.S. 12

NOTES: (#)
1. FOR INSTALLATION INTO CONCRETE, INSTALL IN CONFORMANCE WITH ICC ESR 4057.
2. FOR INSTALLATION INTO MASONRY, INSTALL IN CONFORMANCE WITH ICC ESR 4844, INSTALLATION INTO MASONRY SHALL BE A MINIMUM OF 2" AWAY FROM ANY HEAD JOINT.

LADDER RUNG ATTACHMENT
N.T.S. 63

NOTES: (#)
1. SEE FOUNDATION PLAN AND NOTES

HOUSEKEEPING SLAB
N.T.S. 53

NOTES: (#)
1. SEE FOUNDATION PLAN AND NOTES

CMU PIT WALL FOOTING
N.T.S. 43

NOTES: (#)
1. SEE FOUNDATION PLAN AND NOTES
2. PROVIDE QUANTITY AND SPACING OF BARS TO MATCH AND LAP WITH LONGITUDINAL FOOTING REINFORCING

STEPPED FOOTING
N.T.S. 33

SECTION

NOTES: (#)
1. SEE TYPICAL SLAB SECTION FOR SLAB CONSTRUCTION AND REINFORCEMENT
2. PROVIDE JOINTS @ 12' o.c. (MAX.) UNLESS OTHERWISE NOTED ON PLANS
3. CONTRACTOR OPTION: A PLASTIC 'ZIP STRIP' OR 'QUICK-JOINT' MAY BE USED IN LIEU OF SAW CUT

SLAB CONTROL JOINT
N.T.S. 23

180° HOOK 90° BEND

BAR SIZE	DIMENSION OF STANDARD HOOKS AND BENDS			
	D	J	B (4d$_b$) [2½" min.]	C (12d$_b$)
#3	2⅜"Ø	3"	2½"	4½"
#4	3"Ø	4"	2½"	6"
#5	3½"Ø	5"	2½"	7½"
#6	4½"Ø	6"	3"	9"
#7	5¼"Ø	7"	3½"	10½"
#8	6"Ø	8"	4"	12"
#9	9"Ø	11¼"	4½"	13½"
#10	10"Ø	12½"	5"	15"

REBAR HOOKS & BENDS
N.T.S. 13

SLAB SECTION

CONC. SUMP
N.T.S. 54

NOTES: (#)
1. SEE FOUNDATION PLAN AND NOTES
2. SEE DETAILS 31/S5.00-1 AND 41/S5.00-1 FOR REQUIRED MASONRY CLEAR COVER AND REINF. POSITIONING

FOOTING AT SURGE PIT
N.T.S. 44

NOTES: (#)
1. SEE FOUNDATION PLAN AND NOTES
2. WALL MAY BE BACKFILLED UP TO 6-FT ABOVE TOP OF FOOTING UNTIL ELEVATED CONCRETE SLAB IS IN PLACE AND HAS CURED FOR A MINIMUM OF 28 DAYS, IT IS NOT PERMISSIBLE TO BACKFILL THE FULL HEIGHT UNLESS CONCRETE SLAB IS IN PLACE OR WALL IS SHORED.

CONC. SLAB TO CMU WALL
N.T.S. 34

PIPE THROUGH FOOTING

BAR SIZE	DIMENSION OF STANDARD BENDS		
	D	E	F (6d$_b$) [3" min.]
#3	1½"Ø	2½"	3"
#4	2"Ø	3"	3"
#5	2½"Ø	3½"	3¼"

TIE AND STIRRUP BENDS
N.T.S. 14

OVERALL MAT SLAB REINF. PLAN (NTS)

MAT SLAB REINFORCING
N.T.S. 65

CMU PILASTER TO FOOTING
N.T.S. 55

NOTES: (#)
1. SEE FOUNDATION PLAN AND NOTES

CONC. SLAB TO CMU WALL
N.T.S. 45

NOTES: (#)
1. SEE FOUNDATION PLAN AND NOTES

INT. CMU PIT WALL
N.T.S. 35

PIPE ADJACENT TO FOOTING

NOTES: (#)
1. D = DEPTH OF FOOTING PER FOUNDATION PLAN
2. D_{SLEEVE} = DIAMETER OF PIPE SLEEVE
3. SLEEVE INSIDE DIAMETER 2" LARGER THAN PIPE OUTSIDE DIAMETER
4. SEAL VOID BETWEEN PIPE AND SLEEVE WITH ELASTIC WATERPROOF MATERIAL
5. FOR PIPES 3'-0" OR GREATER BELOW FOOTING COMPACT BACKFILL OVER PIPE AS INDICATED IN GEOTECHNICAL REPORT OR USE STEPPED FOOTING BELOW PIPE
6. PIPES SHALL NOT BE INSTALLED IN THE TOP OR BOTTOM THIRD OF FOOTING
7. PIPES GREATER THAN D/3 OR 8" IN DIAMETER SHALL BE PLACED ABOVE OR BELOW FOOTING

PIPE THROUGH FOOTING
N.T.S. 25

PLAN VIEW

NOTES: (#)
1. TYPICAL HORIZONTAL FOOTING STEEL SHOWN
2. VERTICAL STEEL NOT SHOWN FOR CLARITY
3. SEE SPECIFIC DETAILS FOR STEEL SIZE, NUMBER, AND SPACING

TYP. FOOTING CORNER
N.T.S. 15

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123309 INC: 1
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 9/30/2025

AGD ARCHITECTURE | DESIGN
ANDREW GOODWIN DESIGNS
1238 MONTEREY STREET
SAN LUIS OBISPO, CA 93422
t: (805) 439-1611
www.andrewgoodwin.us
architect: andrew goodwin, aia
andrew@andrewgoodwin.us

BUEHLER
811 EL CAPITAN WAY, SUITE 240
SAN LUIS OBISPO, CA 93401
916 778 0084

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REVISIONS

REV #	REV DATE	REV DESCRIPTION

SEAL

REGISTERED PROFESSIONAL ENGINEER MICHAEL E. PARKS No. 5405 STRUCTURAL STATE OF CALIFORNIA
DATE SIGNED 04.30.2025

PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

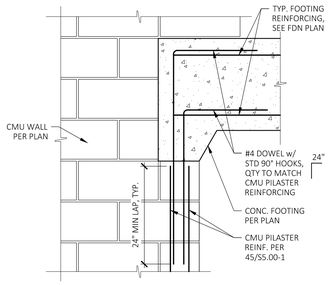
BUILDING P
FOUNDATION DETAILS

PHASE DESCRIPTION
100% CD - DSA APPROVAL
INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: JSB
PROJECT MANAGER: CLK
JOB NUMBER: S24119

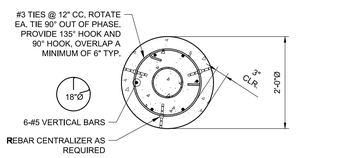
SHEET NUMBER
S4.00-1

PLOT DATE:

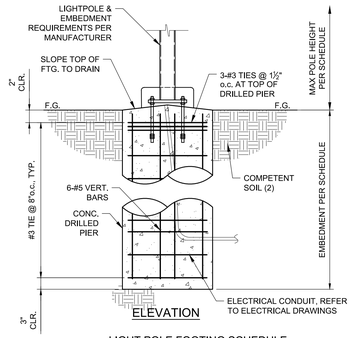


FOOTING TO CMU PILASTER

N.T.S. 41



SECTION



ELEVATION

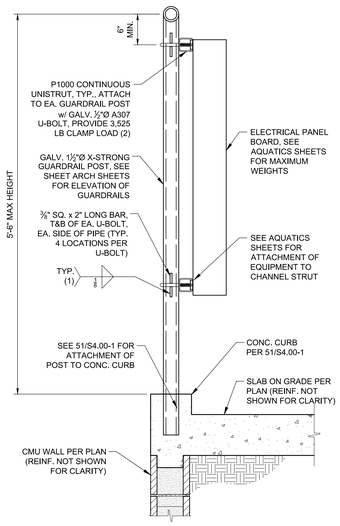
LIGHT POLE FOOTING SCHEDULE

LIGHT FIXTURE(3)	MAX POLE HEIGHT	FOOTING DEPTH
FIXTURE XA	20'-0"	5'-0"
FIXTURE XP	33'-0"	7'-0"

NOTES: (#)
1. SEE SITE PLAN AND NOTES
2. AS DESCRIBED IN PROJECT SOILS REPORT, AND OBSERVED ON SITE BY PROJECT SOILS ENGINEER
3. LIGHT FIXTURE AS DESIGNATED ON ELECTRICAL PLANS

LIGHTPOLE FOOTING

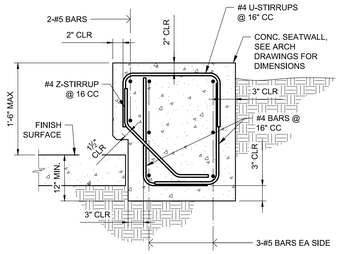
N.T.S. 32



NOTES: (#)
1. REPAIR MISSING OR DAMAGED GALVANIZATION PER ASTM A780
2. ALL UNISTRUT HARDWARE AND FITTINGS SHALL RECEIVE A HOT-DIPPED GALVANIZED FINISH.

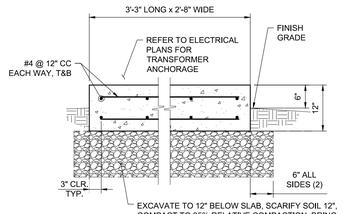
POOL EQUIPMENT ANCHORAGE

N.T.S. 22



CONCRETE SEAT WALL

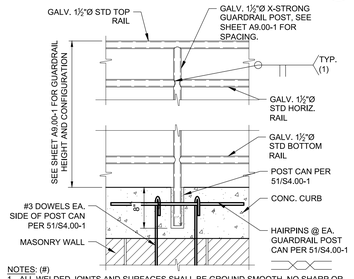
N.T.S. 11



NOTES: (#)
1. SEE SITE PLAN
2. CARE SHALL BE TAKEN NOT TO DISTURB OR UNDERMINE EXISTING ADJACENT FOUNDATIONS. WHERE PROPOSED EXCAVATION IS WITHIN PROXIMITY OF EXISTING FOUNDATION, EXCAVATION SHALL BE LIMITED BY DISTANCE TO EXISTING FOUNDATION FOR THAT SIDE.

XFMR HOUSEKEEPING SLAB

N.T.S. 12

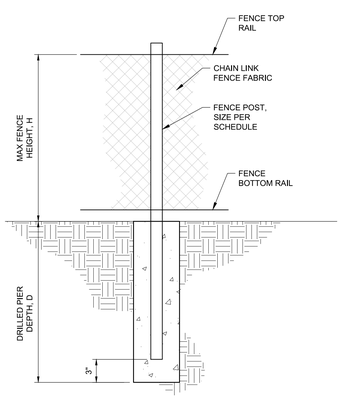


NOTES: (#)
1. ALL WELDED JOINTS AND SURFACES SHALL BE GROUND SMOOTH. NO SHARP OR ABRASIVE CORNERS, EDGES OR SURFACES.

GUARDRAIL CONSTRUCTION

N.T.S. 13

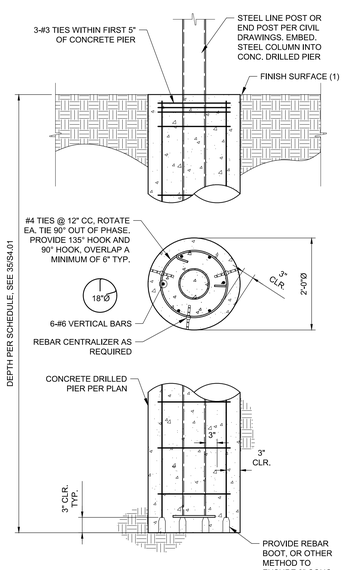
MAX FENCE HEIGHT, H	FENCE POST SIZE (1)	DRILLED PIER DEPTH, D
8'-0"	4"Ø SCH. 40	7'-0"
16'-0"	8⅝"Ø SCH. 40	9'-0"
20'-0"	8⅝"Ø SCH. 40	12'-0"



NOTES: (#)
1. FENCE POST YIELD STRENGTH SHALL BE F_y = 30 KSI MINIMUM.

FENCE POST SCHEDULE

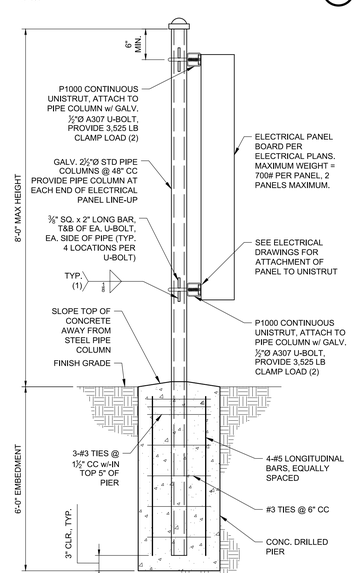
N.T.S. 35



NOTES: (#)
1. REFER TO ARCHITECTURAL DRAWINGS
2. TIE SHALL BE HOOKED ON ADJACENT VERTICAL BARS, IF TWO BAR OVERLAP ISN'T GREATER THAN 6" THEN HOOK AT THREE VERTICAL BARS

CONCRETE DRILLED PIER

N.T.S. 25



NOTES: (#)
1. REPAIR MISSING OR DAMAGED GALVANIZATION PER ASTM A780
2. ALL UNISTRUT HARDWARE AND FITTINGS SHALL RECEIVE A HOT-DIPPED GALVANIZED FINISH

ELECTRICAL PANEL ANCHORAGE

N.T.S. 15

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123309 INC: 1
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 9/30/2025

AGD ARCHITECTURE | DESIGN
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www.andrewgoodwin.us
architect: andrew goodwin, aia
andrew@andrewgoodwin.us

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REGISTERED PROFESSIONAL ENGINEER
MICHAEL E. PARSONS
No. 5405
STRUCTURAL
STATE OF CALIFORNIA
DATE SIGNED
08.06.2025

PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
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SHEET TITLE

BUILDING P
FOUNDATION DETAILS

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S4.01-1

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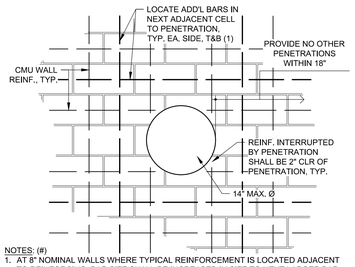
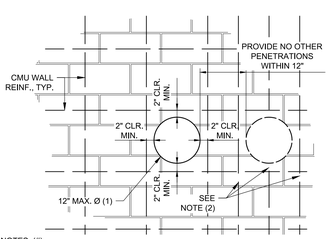


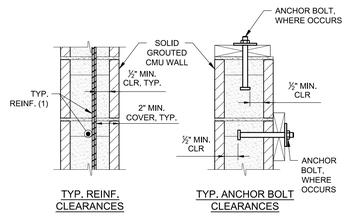
NOTES: (#)
1. AT 8" NOMINAL WALLS WHERE TYPICAL REINFORCEMENT IS LOCATED ADJACENT TO REINFORCING BAR SIZE SHALL BE INCREASED IN SIZE TO NEXT LARGER BAR SIZE (I.E. #4 BAR INCREASED TO #5). AT 12" NOMINAL WALLS, ADDITIONAL BARS SHALL BE LOCATED EA. FACE OF WALL.

CMU WALL PENETRATION (>12"Ø) 61
N.T.S.



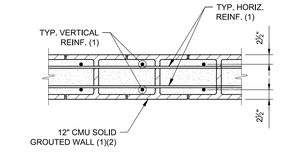
NOTES: (#)
1. PENETRATIONS IN WALL SHALL BE LOCATED AT CELLS WITH NO REINFORCEMENT. IT IS NOT PERMISSIBLE TO PENETRATE THROUGH REINFORCEMENT.
2. WHERE LOCATIONS OF PENETRATIONS INTERUPT TYPICAL REINFORCING, PROVIDE 2" CLR TO INTERRUPTED REINFORCEMENT AND PROVIDE ADDITIONAL BARS EA. SIDE OF PENETRATION

CMU WALL PENETRATION (<12"Ø) 51
N.T.S.



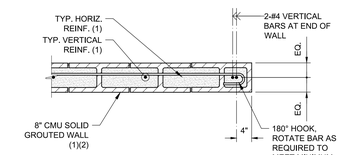
NOTES: (#)
1. SINGLE LAYER OF REINFORCING SHOWN FOR CLARITY. FOR MASONRY WITH TWO LAYERS OF REINFORCING, CLEARANCES AND COVER REQUIREMENTS STILL APPLY

MIN. COVER IN MASONRY 41
N.T.S.



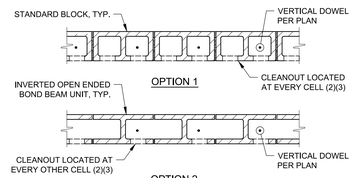
NOTES: (#)
1. SEE FOUNDATION PLAN AND NOTES
2. SPECIAL INSPECTION REQUIRED. SEE GENERAL STRUCTURAL NOTES.

12" CMU WALL REINF. 31
N.T.S.



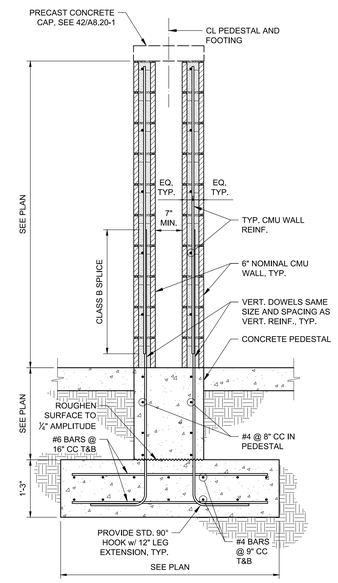
NOTES: (#)
1. SEE FOUNDATION PLAN AND NOTES
2. SPECIAL INSPECTION REQUIRED. SEE GENERAL STRUCTURAL NOTES.

8" CMU WALL JAMB 21
N.T.S.

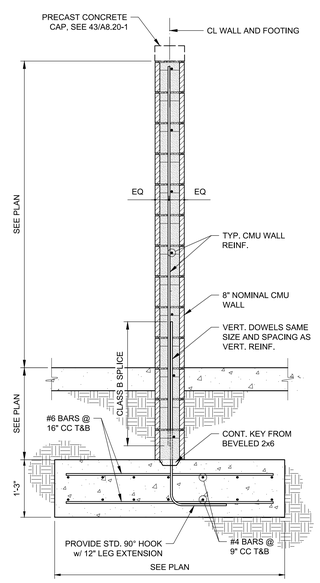


NOTES: (#)
1. CLEANOUTS REQUIRED WHERE GROUT POUR EXCEEDS 4'-0" IN HEIGHT.
2. CONSTRUCT CLEANOUTS SO THAT THE SPACE TO BE GROUTED CAN BE CLEANED AND INSPECTED, 3" SQUARE MINIMUM.
3. SPACE CLEANOUTS HORIZONTALLY AT THE BOTTOM OF EVERY CELL (OPTION 1), OR AT EACH CELL CONTAINING VERTICAL REINFORCEMENT IF AND ONLY IF THE BOTTOM COURSE IS CONSTRUCTED ENTIRELY WITH INVERTED OPEN ENDED BOND BEAM UNITS (OPTION 2).
4. AFTER CLEANING, CLOSE CLEANOUTS WITH VENEER BLOCK CLOSURE BRACED TO RESIST GROUT PRESSURE. ALLOW MORTAR TO CURE FOR 2 DAYS PRIOR TO GROUTING
5. WALL MAY BE GROUTED AFTER GROUT SPACES HAVE BEEN INSPECTED AND ARE FREE OF MORTAR DROPPING AND DEBRIS
6. BOTTOM COURSE OF WALL SHOWN

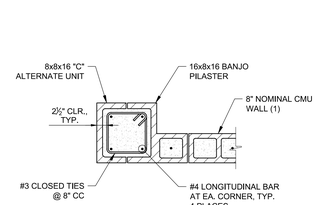
CMU BLOCK CLEANOUT 11
N.T.S.

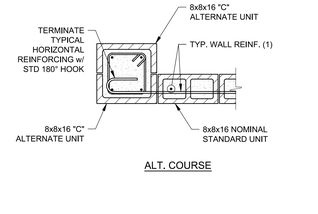


FREESTANDING CMU WALL 63
N.T.S.



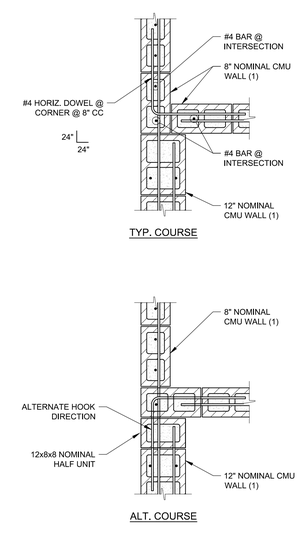
FREESTANDING CMU WALL 53
N.T.S.





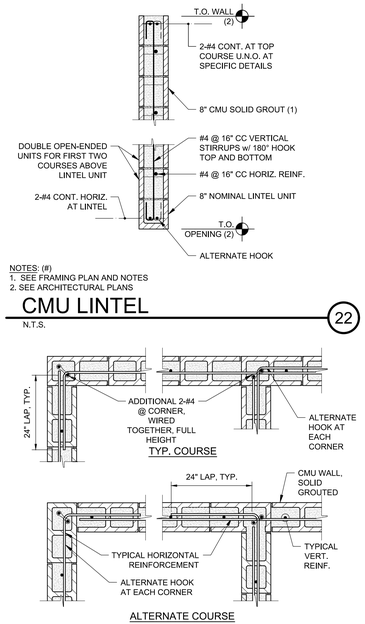
NOTES: (#)
1. SEE STRUCTURAL WALL ELEVATIONS

CMU PILASTER SECTION 43
N.T.S.



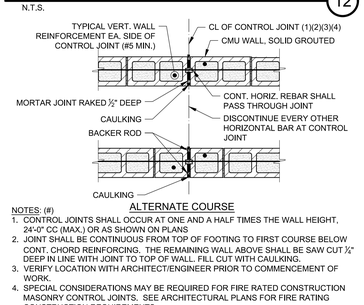
NOTES: (#)
1. SEE STRUCTURAL WALL ELEVATIONS

8" - 12" CMU WALL CORNER 33
N.T.S.



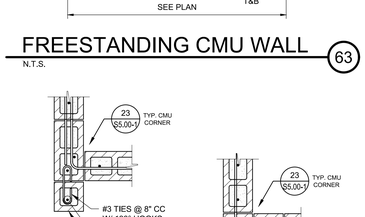
NOTES: (#)
1. SEE FRAMING PLAN AND NOTES
2. SEE ARCHITECTURAL PLANS

CMU LINTEL 22
N.T.S.

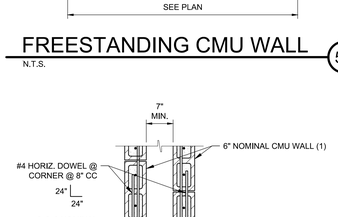


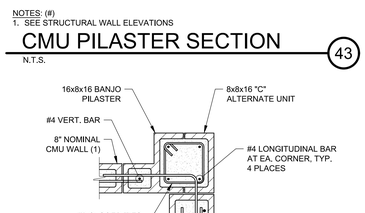
NOTES: (#)
1. SEE FOUNDATION PLAN AND NOTES
2. CONSTRUCT ADDITIONAL COURSE OF WALL AFTER PREVIOUS LIFT HAS CURED
3. IF PROPOSED GROUT POUR HEIGHT IS TO EXCEED 4'-0". CONTRACTOR SHALL SUBMIT GROUTING OPERATIONS PROCEDURE FOR REVIEW BY THE ENGINEER OF RECORD

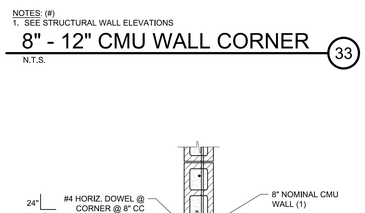
CMU LOW LIFT GROUTING 12
N.T.S.

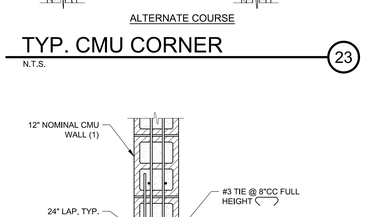


8" WALL STUB 64
N.T.S.

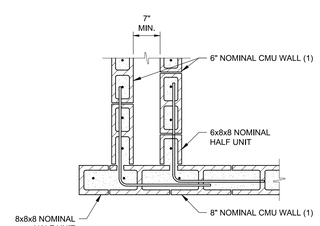


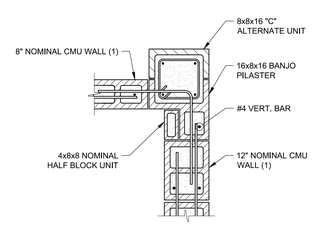


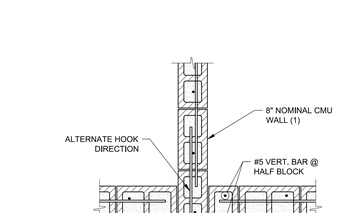


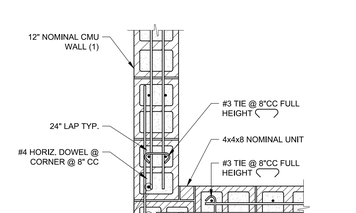


8"-12" CMU WALL INTERSECTION 55
N.T.S.



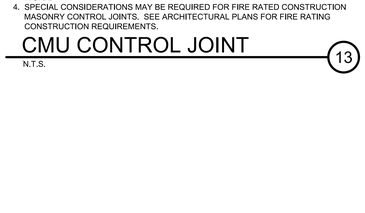






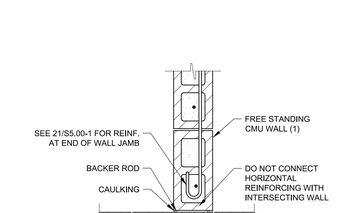
NOTES: (#)
1. SEE STRUCTURAL WALL ELEVATIONS

8"-12" CMU WALL INTERESECTION 35
N.T.S.



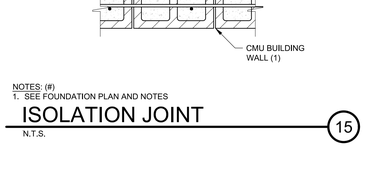
NOTES: (#)
1. SEE STRUCTURAL WALL ELEVATIONS

12" CMU WALL CORNER 25
N.T.S.



NOTES: (#)
1. CONTROL JOINTS SHALL OCCUR AT ONE AND A HALF TIMES THE WALL HEIGHT, 24'-0" CC (MAX.) OR AS SHOWN ON PLANS
2. JOINT SHALL BE CONTINUOUS FROM TOP OF FOOTING TO FIRST COURSE BELOW CONT. CHORD REINFORCING. THE REMAINING WALL ABOVE SHALL BE SAW CUT ¾" DEEP IN LINE WITH JOINT TO TOP OF WALL. FILL CUT WITH CAULKING.
3. VERIFY LOCATION WITH ARCHITECT/ENGINEER PRIOR TO COMMENCEMENT OF WORK.
4. SPECIAL CONSIDERATIONS MAY BE REQUIRED FOR FIRE RATED CONSTRUCTION MASONRY CONTROL JOINTS. SEE ARCHITECTURAL PLANS FOR FIRE RATING CONSTRUCTION REQUIREMENTS.

CMU CONTROL JOINT 13
N.T.S.



NOTES: (#)
1. SEE FOUNDATION PLAN AND NOTES

ISOLATION JOINT 15
N.T.S.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123309 INC: 1
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 9/30/2025

AGD ARCHITECTURE | DESIGN
ANDREW GOODWIN DESIGNS
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REVISIONS

REV #	REV DATE	REV DESCRIPTION

SEAL

REGISTERED PROFESSIONAL ENGINEER
MICHAEL E. PARELL
No. S405
STRUCTURAL
STATE OF CALIFORNIA
DATE SIGNED
08.06.2025

PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

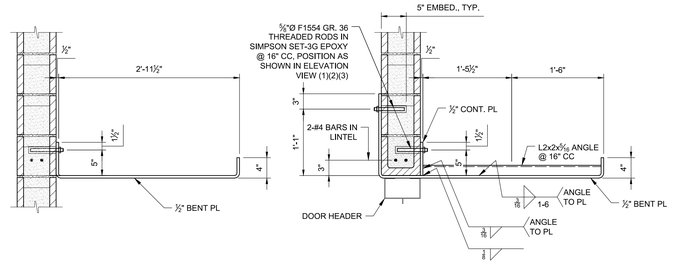
BUILDING P
CMU CONSTRUCTION DETAILS

PHASE DESCRIPTION
100% CD - DSA APPROVAL
INCREMENT 1

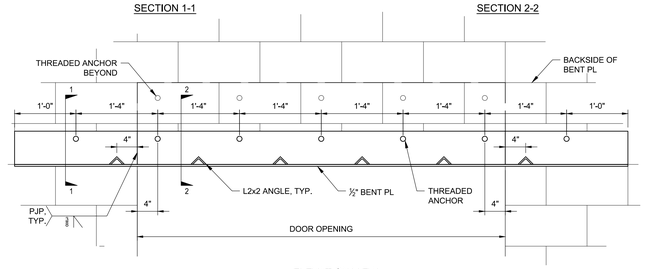
DATE: 9/24/2025
TECHNICIAN: JSB
PROJECT MANAGER: CLK
JOB NUMBER: S24119

SHEET NUMBER
S5.00-1

PLOT DATE:



SECTION 1-1 SECTION 2-2

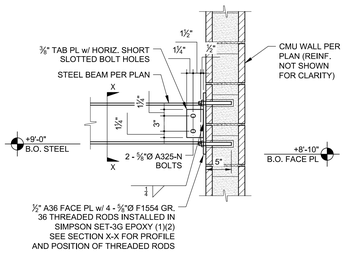


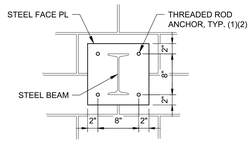
ELEVATION VIEW

NOTES: (#)
1. INSTALL IN CONFORMANCE WITH ICC ESR-4844
2. CONTRACTOR SHALL COORDINATE LOCATION OF REINFORCEMENT WITH PLACEMENT OF POST-INSTALLED ANCHORS. LOCATION OF REINFORCEMENT IN WALL SHALL BE SURVEYED PRIOR TO INSTALLATION OF POST-INSTALLED ANCHORS. DO NOT DRILL THROUGH REINFORCEMENT.
3. ANCHORS SHALL BE TENSION TESTED TO 2,300 LB

STEEL CANOPY 32

N.T.S.



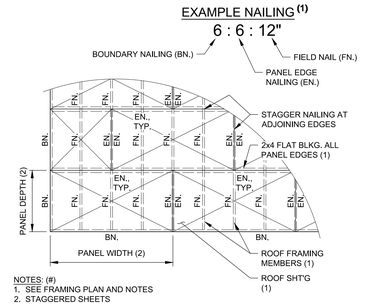


SECTION X-X

NOTES: (#)
1. INSTALL IN CONFORMANCE WITH ICC ESR-4844, REFER TO SHEET S1.03-1 FOR REQUIRED ANCHOR INSTALLATION TORQUE.
2. EACH ANCHOR SHALL BE INDIVIDUALLY TENSION TESTED TO 1900 LB.

STEEL BEAM TO WALL 22

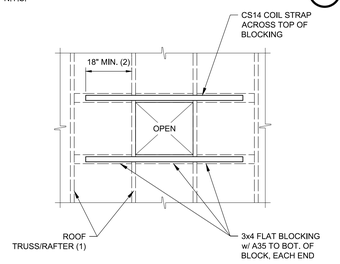
N.T.S.



NOTES: (#)
1. SEE FRAMING PLAN AND NOTES
2. STAGGERED SHEETS

ROOF SHEATHING-BLKD 11

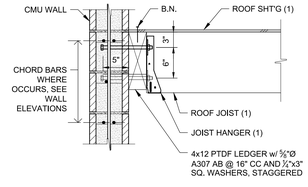
N.T.S.



NOTES: (#)
1. SEE FRAMING PLAN AND NOTES
2. TYPICAL EACH SIDE OF PENETRATION

ROOF PENETRATION 12

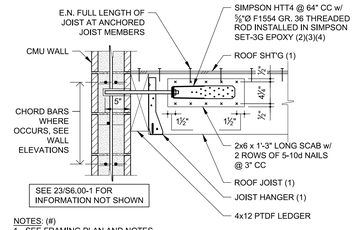
N.T.S.



NOTES: (#)
1. SEE FRAMING PLAN AND NOTES

ROOF LEDGER TO WALL 23

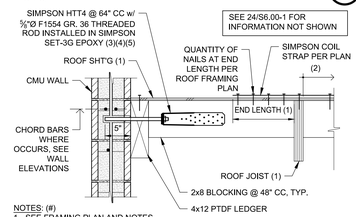
N.T.S.



NOTES: (#)
1. SEE FRAMING PLAN AND NOTES
2. INSTALL IN CONFORMANCE WITH ICC ESR-4844. ANCHORS SHALL NOT BE LOCATED WITHIN 2" OF A HEAD JOINT UNLESS DOUBLE OPEN END UNITS ARE USED FOR CONSTRUCTION OF MASONRY WALL.
3. LOCATION OF REINFORCEMENT SHALL BE SURVEYED PRIOR TO INSTALLATION OF POST INSTALLED ANCHORS. DO NOT DRILL THROUGH REINFORCEMENT.
4. ANCHORS SHALL BE TENSION TESTED TO 3,200 LB

ROOF JOIST TO WALL 13

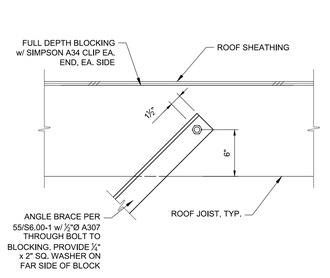
N.T.S.



NOTES: (#)
1. SEE FRAMING PLAN AND NOTES
2. EXTEND STRAP AND BLOCKING AS NOTED ON PLAN. FILL EVERY OTHER HOLE IN STRAP
3. INSTALL IN CONFORMANCE WITH ICC ESR-4844. ANCHORS SHALL NOT BE LOCATED WITHIN 2" OF A HEAD JOINT UNLESS DOUBLE OPEN END UNITS ARE USED FOR CONSTRUCTION OF MASONRY WALL.
4. LOCATION OF REINFORCEMENT SHALL BE SURVEYED PRIOR TO INSTALLATION OF POST INSTALLED ANCHORS. DO NOT DRILL THROUGH REINFORCEMENT.
5. ANCHORS SHALL BE TENSION TESTED TO 3,200 LB

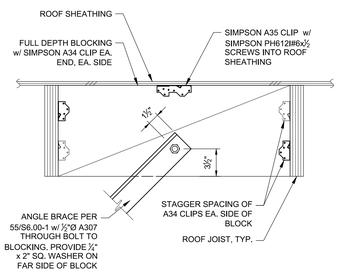
CMU WALL ANCHORAGE 14

N.T.S.



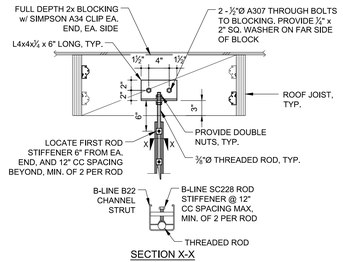
BRACE PARALLEL TO ROOF 64

N.T.S.



BRACE PERP. TO ROOF 54

N.T.S.

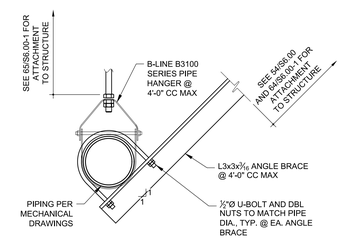


SECTION X-X

NOTES: (#)
1. SEE FRAMING PLAN AND NOTES
2. REFER TO MECHANICAL PLANS FOR SPECIFIC LOCATIONS OF SUSPENDED PIPING

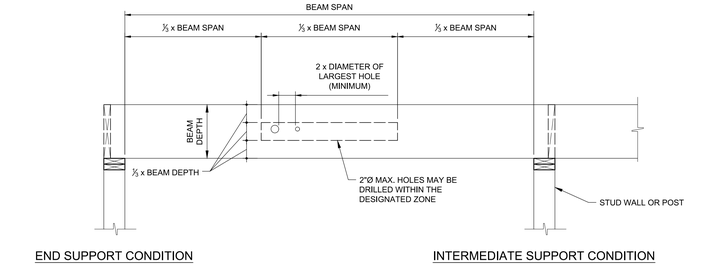
SUSPENDED PIPE SUPPORT 65

N.T.S.



PIPE SWAY BRACE ATTACHMENT 55

N.T.S.



END SUPPORT CONDITION INTERMEDIATE SUPPORT CONDITION

TYPICAL ALLOWABLE HOLES IN PSL/LVL BEAMS 15

N.T.S.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123309 INC: 1
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 9/30/2025

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REVISIONS

REV #	REV DATE	REV DESCRIPTION

SEAL

REGISTERED PROFESSIONAL ENGINEER MICHAEL E. PARKER No. S405 STRUCTURAL STATE OF CALIFORNIA
DATE SIGNED: 04.30.2025

PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

BUILDING P
ROOF FRAMING DETAILS

PHASE DESCRIPTION
100% CD - DSA APPROVAL
INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: JSB
PROJECT MANAGER: CLK
JOB NUMBER: S24119

SHEET NUMBER
S6.00-1

PLOT DATE:

EXHAUST FAN SCHEDULE

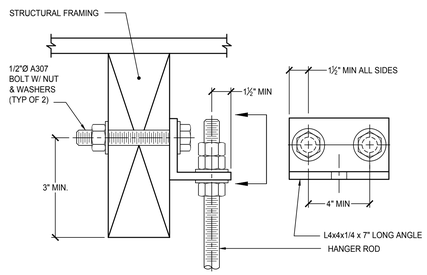
TAG	MAKE	MODEL	TYPE	DRIVE	PERFORMANCE					MOTOR		ACCESSORIES						OPERATING WEIGHT LBS	REMARKS SEE BELOW	INSTALLATION DETAIL
					CFM	ESP	RPM	OPERATING POWER WATTS [BHP]	SONES	POWER V/ϕ/HZ	NOM HP	BIRD GUARD	BACKDRAFT DAMPER	ROOF CURB	ROOF JACK	WALL CAP	FSC			
EF 1	GREENHECK	CSP-A510	INLINE	DIRECT	450	0.25	1,048	192	2.0	115/1/60	NA	NO	NO	NO	NO	NO	YES	40	C1	1/M0.00-1

GENERAL NOTES APPLICABLE TO ALL UNITS:
A. DISCONNECT PROVIDED BY ELECTRICAL CONTRACTOR.
B. FAN SPEED CONTROLLERS SHALL BE PROVIDED FROM THE FACTORY WITH THE SPEED CONTROLLER INTERNALLY MOUNTED WITHIN THE FAN HOUSING AND WIRED.

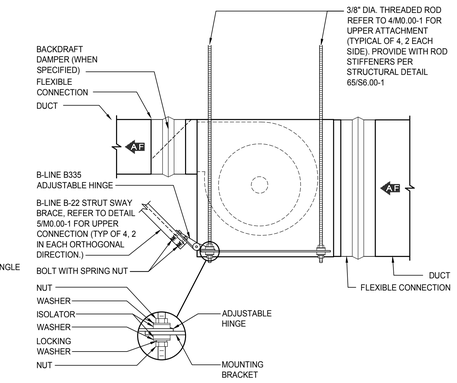
CONTROL NOTES:
C1. CONTROL WITH SINGLE POLE SWITCH, REFER TO FLOOR PLAN FOR LOCATION. SWITCH PROVIDED AND INSTALLED BY ELECTRICAL.

EXHAUST HOOD SCHEDULE

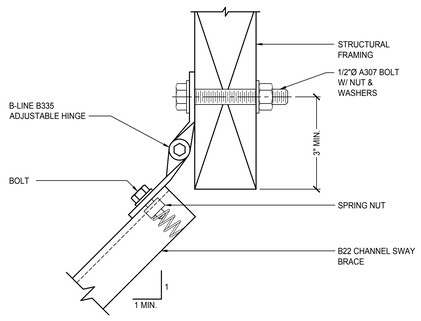
TAG	MAKE	MODEL	THROAT SIZE INCHES	THROAT AREA IN FT²	CFM	SP	THROAT VELOCITY FPM	ACCESSORIES			WEIGHT LBS	REMARKS SEE BELOW	INSTALLATION DETAIL
								BIRD GUARD	BACKDRAFT DAMPER	ROOF CURB			
EH 1	GREENHECK	GRSR	12	0.82	450	0.05	549	YES	YES	YES	30	NA	2/M0.00-1



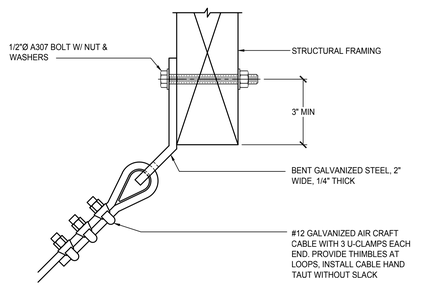
4 SUPPORT CONNECTION
NTS



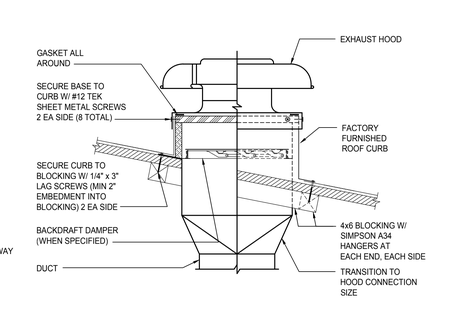
1 IN-LINE EXHAUST FAN
NTS



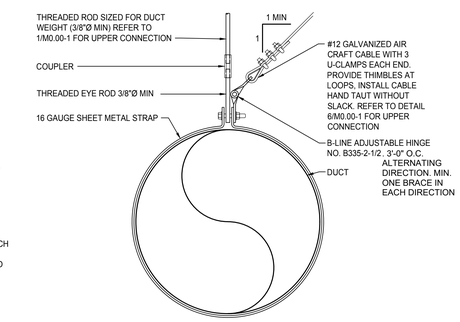
5 SWAY BRACE CONNECTION (STRUT)
NTS



6 SWAY BRACE CONNECTION (CABLE)
NTS



2 EXHAUST HOOD MOUNTING
NTS



3 EXPOSED DUCT HANGER
NTS

MECHANICAL ABBREVIATIONS

AC	AIR CONDITION, AIR CONDITIONING, AIR CONDITIONED
ABV	ABOVE
AFF	ABOVE FINISHED FLOOR
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
ALUM	ALUMINUM
AMCA	AIR MOVEMENT AND CONTROL ASSOCIATION
AMB	AMBIENT
AP	ACCESS PANEL
ARCH	ARCHITECT, ARCHITECTURAL
AHRI	AIR CONDITIONING, HEATING, AND REFRIGERATION INSTITUTE
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR CONDITIONING ENGINEERS
BDD	BACK DRAFT DAMPER
BOD	BASIS OF DESIGN
BEL	BELOW
BHP	BRAKE HORSE POWER
BLDG	BUILDING
BTUH	BRITISH THERMAL UNIT PER HOUR
CA	COMBUSTION AIR
CD	CONDENSATE DRAIN
CFD	CEILING FIRE DAMPER
CFM	CUBIC FEET PER MINUTE
CONT	CONTINUATION
CSD	CEILING SMOKE DAMPER
DB	DRY BULB TEMPERATURE
DN	DOWN
DSA	DIVISION OF THE STATE ARCHITECT
DTR	DOWN THROUGH ROOF
(E)	EXISTING
EA	EXHAUST AIR
EC	EVAPORATIVE COOLER
EDB	ENTERING DRY BULB TEMPERATURE
EER	ENERGY EFFICIENCY RATIO
EFF	EFFICIENCY
ELEC	ELECTRICAL
ESP	EXTERNAL STATIC PRESSURE
EWB	ENTERING WET BULB
EWT	ENTERING WATER TEMPERATURE
FA	FROM ABOVE
FC	FLEXIBLE CONNECTION
FD	FIRE DAMPER
FLA	FULL LOAD AMPS
FPM	FEET PER MINUTE
FSC	FAN SPEED CONTROLLER
FSD	FIRE/SMOKE DAMPER
GA	GAGE, GAUGE
GALV	GALVANIZED
GPM	GALLONS PER MINUTE
GYP	GYPSUM
HD	HEAD
HP	HORSE POWER
HVI	HOME VENTILATING INSTITUTE
HZ	HERTZ
IDU	INDOOR UNIT
IWC	INCHES OF WATER COLUMN
KW	KILOWATT
LBS	POUNDS
LWT	LEAVING WATER TEMPERATURE
MBH	1000 BRITISH THERMAL UNITS PER HOUR
MCA	MINIMUM CIRCUIT AMPS
MFGR	MANUFACTURE OR MANUFACTURER
MIN	MINIMUM
MUA	MAKE-UP AIR
(N)	NEW
NL	NOT LISTED
NOM	NOMINAL
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OAI	OUTSIDE AIR INTAKE
OBD	OPPOSED BLADE DAMPER
ODU	OUTDOOR UNIT
OSHPD	OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
PD	PRESSURE DROP
PSI	POUNDS PER SQUARE INCH
RA	RETURN AIR
REFRIG	REFRIGERANT, REFRIGERATION
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SEER	SEASONAL ENERGY EFFICIENCY RATION
SHT	SHEET
SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
SOV	SHUT OFF VALVE
SP	STATIC PRESSURE
SS	STAINLESS STEEL
SSE	STEADY STATE EFFICIENCY
SST	SATURATED SUCTION TEMPERATURE
TEMP	TEMPORARY, TEMPERATURE
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
TXV	THERMAL EXPANSION VALVE
UON	UNLESS OTHERWISE NOTED
UTR	UP TO OR UP THROUGH ROOF
VD	VOLUME DAMPER
VEX	VEHICLE EXHAUST SYSTEM
VRF	VARIABLE REFRIGERANT VOLUME
WB	WET BULB TEMPERATURE
WC	WATER COLUMN
WG	WATER GAUGE
WT	WEIGHT EXPRESSED IN POUNDS

MECHANICAL, ELECTRICAL AND PLUMBING ANCHORAGE NOTE

1 ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTER 13, 26 AND 30.

- A ALL PERMANENT EQUIPMENT AND COMPONENTS.
- B TEMPORARY, MOVABLE, OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
- C TEMPORARY, MOVABLE, OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

2 THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

- A COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
- B COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

3 THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL, AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING, DUCTWORK & ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6 5, 13.6.6, 13.6.7, 13.6.8, AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE APPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP	X	MD	X	PP	X	E

OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH THE PROJECT SPECIFIC NOTES AND DETAILS

MP	MD	PP	E

OPTION 2: SHALL COMPLY WITH HCAI (OSHPD) PREAPPROVAL (OPM #) #_____, AS INCLUDED IN THESE DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

NOTE: REFER TO ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR ITEMS RELATED TO THE ELECTRICAL SYSTEM. LOW VOLTAGE CONDUIT FOR MECHANICAL SYSTEM CONTROLS SHALL BE IN ACCORDANCE WITH THE ELECTRICAL REQUIREMENTS.

MECHANICAL SYSTEM ACCEPTANCE TESTING REQUIREMENTS

ACCEPTANCE TESTING RELATED TO THE MECHANICAL SYSTEMS SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR AND SHALL BE PERFORMED BY AN ACCEPTANCE TESTING TECHNICIAN WHO HAS BEEN CERTIFIED BY A CALIFORNIA ENERGY COMMISSION APPROVED ACCEPTANCE TEST TECHNICIAN CERTIFICATION PROVIDER PROGRAM. THE TEST AND BALANCE CONTRACTOR CAN ALSO BE THE ACCEPTANCE TESTING TECHNICIAN. FOR APPLICABLE ACCEPTANCE TESTS SEE THE ENERGY COMPLIANCE DOCUMENTATION.

CAL GREEN CODE NONRESIDENTIAL MANDATORY MEASURES

DIVISION 5.4-MATERIAL CONSERVATION AND RESOURCE EFFICIENCY

5.410.2 COMMISSIONING. 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.

REFER TO THE PROJECT SPECIFICATIONS FOR COMMISSIONING REQUIREMENTS.
5.410.4 TESTING AND ADJUSTING. 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 2022 CGBSC 303.1.
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. HVAC SYSTEMS AND CONTROLS
2. WATER HEATING 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.

AT A MINIMUM THE MECHANICAL CONTRACTOR SHALL OBTAIN THE LATEST START-UP CHECK LIST(S) FROM THE EQUIPMENT MANUFACTURER AND PERFORM ALL TESTS AND CHECKS APPLICABLE. AFTER COMPLETION OF THE START-UP CHECK LIST THE MECHANICAL CONTRACTOR SHALL MAKE ADJUSTMENTS TO PUT THE EQUIPMENT IN PEAK WORKING ORDER. MECHANICAL CONTRACTOR SHALL DOCUMENT ALL WORK PERFORMED. CLOSE OUT DOCUMENTATION PROVIDED TO THE GENERAL CONTRACTOR SHALL INCLUDE ALL COMPLETED CHECK LIST(S) AND DOCUMENTATION FOR ANY WORK PERFORMED. THE GENERAL CONTRACTOR SHALL SUBMIT THE CHECK LIST(S) AND WORK DOCUMENTATION TO ENGINEER OF RECORD.
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 BUILDING ENFORCING AGENCY.

SEE SPECIFICATION SECTION 23 00 13 FOR HVAC BALANCING REQUIREMENTS.
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 5.504 POLLUTANT CONTROL

5.504.1 TEMPORARY VENTILATION. THE PERMANENT HVAC SYSTEM SHALL ONLY BE USED DURING CONSTRUCTION IF NECESSARY TO CONDITION THE BUILDING 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 VENTILATING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUST, WATER AND DEBRIS WHICH MAY ENTER THE SYSTEM.
5.504.4.1 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
LESS WATER AND LESS EXEMPT COMPOUNDS IN GRAMS PER LITER

SPECIALTY APPLICATIONS	CURRENT VOC LIMIT
PVC WELDING	510
CPVC WELDING	490
ABS WELDING	325
SPECIAL PURPOSE CONTACT ADHESIVE	250

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, HTTP://WWW.ARB.CA.GOV/DRDB/SC/CURHTML/R1168.PDF.

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. FILTERS SHALL BE CLEARLY LABELED BY THE MANUFACTURER INDICATING THE MERV RATING.

EXCEPTIONS:
1. EXISTING MECHANICAL EQUIPMENT.

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 NOT APPLICABLE TO LOW-RISE RESIDENTIAL OCCUPANCIES, 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 2022 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 (CO2) MONITORING. FOR BUILDINGS OR ADDITIONS EQUIPPED WITH DEMAND CONTROL VENTILATION, CO2 SENSORS AND VENTILATION CONTROLS SHALL BE SPECIFIED AND INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2022 CALIFORNIA ENERGY CODE, SECTION 120.1(C)(4).

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.

SECTION 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 STATE-WIDE ENERGY CONSULTING OR VERIFICATION ORGANIZATIONS.
4. PROGRAMS SPONSORED BY MANUFACTURING ORGANIZATIONS.
5. OTHER PROGRAMS ACCEPTABLE TO THE ENFORCING AGENCY

MECHANICAL GENERAL NOTES

1 COMPLY WITH THE REQUIREMENTS OF THE FOLLOWING CODES:
2025 CALIFORNIA ADMINISTRATIVE CODE (CAC): PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
2022 CALIFORNIA BUILDING CODE (CBC): PART 2, TITLE 24 CCR
2022 CALIFORNIA ELECTRICAL CODE (CEC): PART 3, TITLE 24 CCR
2022 CALIFORNIA MECHANICAL CODE (CMC): PART 4, TITLE 24 CCR
2022 CALIFORNIA PLUMBING CODE (CPC): PART 5, TITLE 24 CCR
2022 CALIFORNIA ENERGY CODE (CENC): PART 6, TITLE 24 CCR
2022 CALIFORNIA FIRE CODE (CFC): PART 9, TITLE 24 CCR
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CAL GREEN): PART 11, TITLE 24 CCR

REPORT DEFICIENCIES WITHIN THIRTY (30) DAYS UPON AUTHORIZATION TO PROCEED.

2 THESE DRAWINGS ARE A GENERAL GRAPHIC PRESENTATION OF THE WORK. DUCTWORK, PIPING, AND EQUIPMENT, AS SHOWN, ARE SCHEMATIC. FABRICATE AND INSTALL BASED ON ACTUAL FIELD MEASUREMENT. COORDINATE WITH OTHER TRADES. ADHERE TO LOCATIONS AS CLOSELY AS POSSIBLE, VARY RUNS OR SHAPE OF DUCTWORK AS REQUIRED TO MEET STRUCTURAL AND OTHER INTERFERENCES AS REQUIRED BY THE ARCHITECT. PROVIDE A COMPLETE SET OF SHOP DRAWINGS REFLECTING ACTUAL DIMENSIONS, ACCESS REQUIREMENTS, AND DETAILS BASED UPON THE ACTUAL EQUIPMENT PROCURED. MAINTAIN AN UP TO DATE SET OF AS-BUILT DRAWINGS AT THE JOB SITE.

3 THE MECHANICAL CONTRACTOR SHALL COORDINATE ALL ITEMS RELATED TO MECHANICAL SYSTEMS WITH THE WORK OF OTHER TRADES BEFORE PROCEEDING WITH PROCURING OR FABRICATION OF EQUIPMENT, DUCTWORK, PIPING ETC. ITEMS TO BE COORDINATED SHALL INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:

GRILLES, REGISTERS AND DIFFUSERS SHALL BE COORDINATED WITH THE REFLECTED CEILING PLAN.

DUCTWORK LOCATIONS AND POTENTIAL INTERFERENCES WITH STRUCTURAL MEMBERS, FRAMING, FIRE SPRINKLER LINES, PLUMBING WASTE LINES, CABLE TRAYS AND CONDUIT.

OPENINGS REQUIRED IN WALLS, FLOORS OR CEILINGS SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR AND/OR FRAMING CONTRACTOR PRIOR TO THE START OF CONSTRUCTION TO AVOID REWORK. ANY REWORK REQUIRED SHALL BE AT NO ADDITIONAL COST TO THE OWNER.

PRIOR TO BIDDING THE PROJECT THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR TO DETERMINE WHO WILL BE RESPONSIBLE FOR PROCURING AND INSTALLING MOTOR STARTERS, CONDUIT FOR LOW VOLTAGE CONTROLS AND LINE VOLTAGE CONTROL DEVICES, SUCH AS SINGLE POLE SWITCHES.

ACCESS TO VOLUME DAMPERS FOR BALANCING. ACCESS TO ALL EQUIPMENT, AS WELL AS PLATFORM AND CURB LOCATIONS.

CONSTRUCTION OF PLATFORMS AND SHAPED RUNNERS OR OTHER MEANS TO MOUNT CURBS LEVEL. ALL PLATFORMS AND CURBS SHALL BE LEVEL UNLESS OTHERWISE NOTED OR DETAILED ON THE MECHANICAL PLANS.

4 REVIEW ALL DRAWINGS AND SPECIFICATIONS INCLUDING ARCHITECTURAL, STRUCTURAL, CIVIL, MECHANICAL, PLUMBING, AND ELECTRICAL. ANY QUESTIONS SHALL BE BROUGHT UP, IN WRITING, TO THE ATTENTION OF THE ENGINEER BEFORE THE START OF CONSTRUCTION.

5 ALL EQUIPMENT SHALL BE INSTALLED WITH SUFFICIENT ACCESS TO CONTROLS, FILTERS, ELECTRIC MOTORS, ETC. ACCESS CLEARANCE SHALL BE 30" OR AS REQUIRED BY THE EQUIPMENT MANUFACTURER, WHICH EVER IS GREATER. CONTRACTORS SHALL PROVIDE ACCESS PANELS WHERE REQUIRED WHERE VERTICAL SPACE ALLOWS. INSTALL DUCTWORK THAT IS IN CLOSE PROXIMITY TO MECHANICAL, ELECTRICAL OR ANY OTHER ITEM THAT REQUIRES ACCESS HIGH IN THE SPACE FOR EASE OF ACCESS.

6 PRIOR TO ROUGH-IN, COORDINATE THE ORIENTATION OF ELECTRICAL BOXES WITH THE DIMENSIONS OF THE DEVICE OR WALL PLATE THAT WILL BE INSTALLED IN OR ON THE ELECTRICAL BOX TO ENSURE THAT THE DEVICE IS CORRECTLY ORIENTED AND THE BOX IS PROPERLY ALIGNED TO BE COVERED BY THE DEVICE OR WALL PLATE.

7 HANDLE, STORE AND INSTALL EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS.

8 BRACE AND SUPPORT PIPES, CONDUIT, AND DUCTWORK IN ACCORDANCE TO SMACNA GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL AND PLUMBING PIPING SYSTEM.

9 REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF DIFFUSERS, REGISTERS, GRILLES, AND ACCESS PANELS.

10 ALL DUCT DIMENSIONS, A

PROJECT TEAM LIST			
TITLE	**NAME**	**DESK NUMBER**	**EMAIL ADDRESS**
PRINCIPAL IN CHARGE	BRIAN STARRETT	805.540.5358	BSTARRETT@3CENG.COM
PROJECT MANAGER	BRIAN STARRETT	805.540.5358	BSTARRETT@3CENG.COM
MECHANICAL DESIGNER	DREW SCHMIDT	805.540.3363 EXT 310	DSCHMIDT@3CENG.COM
PLUMBING DESIGNER	ELI FERMAN	805.540.3363 EXT 309	EFERMAN@3CENG.COM
ENERGY COMPLIANCE	JORGE BRAVO	805.540.3363 EXT 313	JBRAVO@3CENG.COM

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H. DOMESTIC HOT WATER CONTROLS

This table is used to demonstrate compliance with control requirements in 110.3 for all occupancies. For multifamily residential and hotel/motel occupancies, compliance is also demonstrated with requirements in 160.4(e) / 170.2(d).

	Yes	No	Not Applicable	Requirement
01	☒	☐	☐	Construction documents require manufacturer certification that service water-heating systems are equipped with automatic temperature controls capable of adjusting temperature settings per 110.3(a).
02	☐	☐	☒	Systems with capacity > 167,000 BTUH equipped with outlet temperature controls per 110.3(c)1 unless covered by California Plumbing Code 613.0.
03	☐	☐	☒	Controls for circulating pumps or electrical heat trace systems are capable of automatically turning off the system per §110.3(c)2 unless systems serves healthcare facility.
04	☐	☐	☒	For recirculation systems serving multiple dwelling units, design includes automatic pump controls per 170.2(d) or 180.1(b)3 for additions.
05	☐	☐	☒	For recirculation systems serving individual dwelling units, design includes manual on/off controls as specified in Reference Appendix RA4.4.9 per 170.2(d).
06	☐	☐	☒	Combustion air positive shut-off shall be provided per 160.4(3).on all newly installed commercial boilers as follows: • Boilers with input capacity >= 2.5 MMBtu/h, in which the boiler is designed to operate with a nonpositive vent static pressure • Boilers where one stack serves two or more boilers with a total combined input capacity per stack of 2.5 MMBtu/h.
07	☐	☐	☒	Boiler combustion air fans with motor >= 10 hp shall meet one of the following • The fan motor shall be driven by a variable speed drive OR • The fan motor shall include controls that limit the fan motor demand to <=30% of the total design wattage at 50% of the design air volume.
08	☐	☐	☒	Newly installed boilers with an input capacity (d.gte)/) 5MMBtu/h and a steady state full-load combustion efficiency < 90% shall maintain excess (stack-gas) oxygen concentrations <= 5% by volume on a dry basis over firing rates of 20-100%. Combustion air volume shall be controlled with respect to firing rate or flue gas oxygen concentration. Use of a common gas and combustion air control linkage or jack shaft is prohibited.

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This document is used to demonstrate compliance for nonresidential occupancies with requirements in 110.1, 110.3, 120.3, and 140.5, and with requirements in 141.0 for additions and alterations, for domestic water heating scopes using the prescriptive path. For high-rise residential and hotel/motel occupancies compliance is demonstrated with requirements in 110.1, 110.3, 160.4 and 170.2(d), and with requirements 180.1 for additions and 180.2 for alterations.

A. GENERAL INFORMATION

01	Project Location (city)	Tranquility	02	Climate Zone	13
03	Occupancy Types Within Project (select all that apply):				

● Gymnasium ● Office ● Support Areas ● All Other Occupancies

B. PROJECT SCOPE

This table includes domestic water heating systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive paths outlined in 140./ 170.2(d) and 141.0(a)/ 180.1, or 141.0(b)2N / 180.2 for additions or alterations. Solar water heating systems are documented on the NRCC-SAB compliance document. Combined hydronic water heating systems are documented on the NRCC-MCH compliance document.

01	02	03	
My project consists of (check all that apply):	System Type[1,2]	System Components	
☒ New system (DHW system being installed for the first time)	Individual System (serving nonresidential spaces)	☒ Equipment	☒ Distribution ☒ Controls
☐ System Alteration (equipment, distribution or controls)		☐ Equipment	☐ Distribution ☐ Controls

[1]FOOTNOTES: Point of use water heaters, or other non-central systems used to serve nonresidential spaces, are considered individual systems.
[2] Dwelling units refers to hotel/motel guest rooms and units in a multifamily residential occupancy.
[3] DHW systems serving 2 or more dwelling units are considered "Central Systems" for multifamily occupancies

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with water heating requirements. 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
Domestic Hot Water Equipment	Distribution Systems	Controls	**Compliance Results**
Table F	Table G	Table H	
Yes	Yes	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.

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I. 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-PLB-E - Must be submitted for all buildings

J. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no forms required for this project.

K. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no forms required for this project.

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E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. DOMESTIC HOT WATER EQUIPMENT

This table is used to demonstrate compliance with mandatory equipment requirements in 110.1 and 110.3. Compliance with prescriptive requirements in 140.5(c) / 170.2(d) must also be demonstrated and with 141.0 / 180.1/ 180.2 for addition and alteration scopes.

Equipment Schedule: Water Heating Efficiency and Standby Loss

03		04		05	06			
System Name	Rinnai RE199e tankless	Exception to 140.5(c)/ 170.2(d)3		☐	Gas Service Water Heating System >= 1MMBtu/h[1]	Capacity-weighted Average Efficiency %		
07	08	09	10	11	12	13	14	15
Name or Item Tag	Equipment Type	Volume (gal)	Rated Input Capacity (Btu/h)	Max GPM/ First Hour Rating (FHR)	Rated Efficiency	Minimum Efficiency Required	Efficiency Unit	Designed Standby Loss	Maximum Standby Loss
Rinnai RE199e tankless	Commercial Gas Instantaneous Water Heater	1	199,000	FHR >=75	0.82	0.81	UEF		

[1]FOOTNOTE: In systems >= 1MMBtu/h with multiple units, gas water heaters with input capacity > 100,000 Btu/h may meet 90% Et requirements via an input capacity-weighted average.

Water Heating Equipment All Occupancies

	Yes	No	Not Applicable	Requirement
18	☐	☐	☒	Unfired storage tank insulation shall have Internal + External >=R-16 OR External >=R-3.5. Label required per 110.3(c)3
19	☐	☐	☒	New state buildings 60% of energy for service water heating from site solar energy or recovered energy per 110.3(c)5
20	☒	☐	☐	Isolation valves for instantaneous water heater with input rating >6.8 kBTUH or 2 kW has been specified per 110.3(c)6
21	☐	☐	☒	School buildings < 25,000 ft^2 and < 4 stories must install a heat pump water heating system per 140.5(a)1. Water heating systems serving an individual bathroom space may be an instantaneous electric water heater.

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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Jorge Bravo	Documentation Author Signature:
Company: 3C Engineering, Inc.	Signature Date: 2025-05-14
Address: 1500 Palm St.	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: San Luis Obispo CA 93405	Phone: 805-540-3363

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: Brian Starrett	Responsible Designer Signature:
Company: 3C Engineering, Inc.	Date Signed: 2025-05-14
Address: 1500 Palm St.	License: M 34068
City/State/Zip: San Luis Obispo CA 93401	Phone: 805-540-3363

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G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM

This table is used to demonstrate compliance for nonresidential occupancies with distribution requirements in 120.3 and 140.5. For multifamily and hotel/motel occupancies, compliance is demonstrated with requirements 110.3(c), 160.4, 170.2(d).

Mandatory Pipe Insulation All Occupancies

13	☐	For systems serving dwelling units, pipe insulation must meet the minimum insulation requirements in Table 160.4-A (see blow) except: • Piping that penetrates framing members shall not be required to have pipe insulation for the distance of the framing penetration. Piping that penetrates metal framing shall use grommets, plugs, wrapping or other insulating material to assure that no contact is made with the metal framing. Insulation shall abut securely against all framing members • Piping installed in interior or exterior walls shall not be required to have pipe insulation if all of the requirements are met for compliance with Quality Insulation Installation (QII) as specified in the Reference Residential Appendix RA3.5. • Piping surrounded with a minimum of 1 inch of wall insulation, 2 inches of crawlspace insulation, or 4 inches of attic insulation, shall not be required to have pipe insulation.
14	☒	For systems serving nonresidential spaces, pipe insulation for the following applications is specified to comply with Table 120.3-A (see below) per 120.3: • Recirculating system piping, including supply and return piping of the water heater • The first 8 ft of hot and cold outlet piping, including between storage tank and heat trap, for a nonrecirculating storage system • Pipes that are externally heated
15	☒	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 per 120.3(b) / 160.4(f). Pipe insulation buried below grade must be installed in a water proof and non-crushable casing or sleeve.

TABLE 120.3-A / 160.4-A PIPE INSULATION THICKNESS

Fluid Temperature Range (°F)	Conductivity Range (Btu-in per hour per ft^2 per °F)	Insulation Mean Rating Temp (°F)	Nominal Pipe Diameter (in)			
			< 1	1 to < 1.5	1.5 to < 4	1.5 to < 4 Multifamily & Hotel/Motel
			Minimum Insulation Required			
105-140	0.22 - 0.28	100	1.0 in or R-7.7	1.5 in or R-12.5	1.5 in or R-11	2.0 in or R-16

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123309 INC: 1
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 9/30/2025

AGD
ARCHITECTURE | DESIGN
ANDREW GOODWIN DESIGNS
1238 MONTEREY STREET
SAN LUIS OBISPO, CA 93422
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REVISIONS

REV #	REV DATE	REV DESCRIPTION

SEAL

PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

ENERGY COMPLIANCE DOCUMENTATION

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: DS
PROJECT MANAGER: BS
JOB NUMBER: 791

SHEET NUMBER
M0.01-1

PLOT DATE: 9/15/2025 4:35:48 PM

KEY NOTES

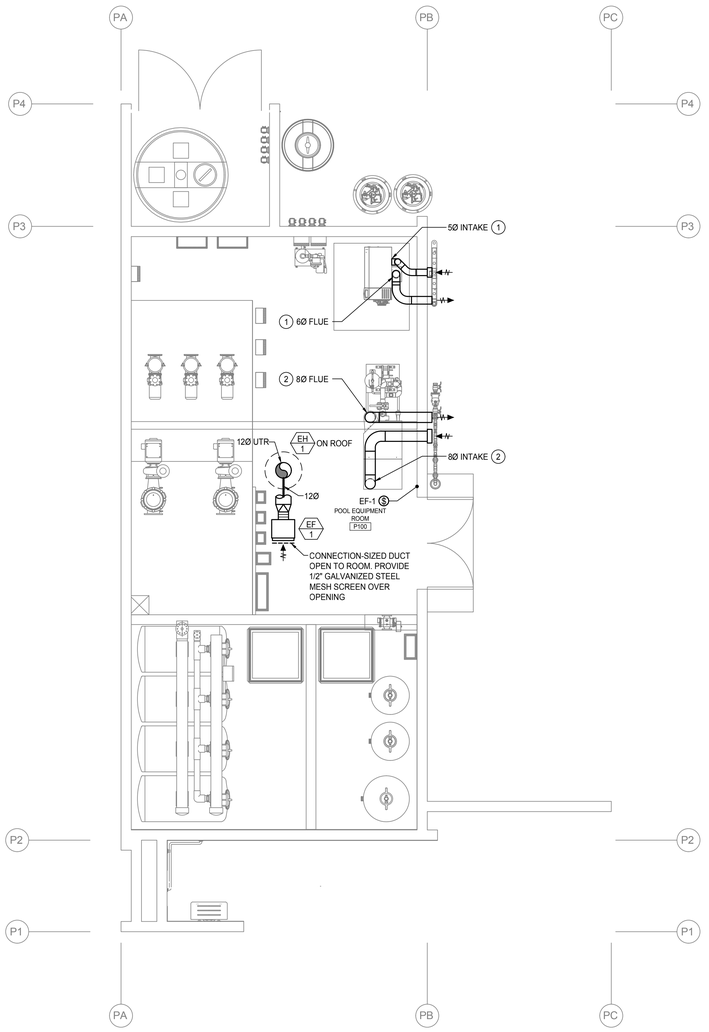
APPLICABLE TO THIS SHEET ONLY	
1	PROVIDE WITH MANUFACTURER'S POWER DIRECTAIRE HORIZONTAL VENT KIT. SEE MANUFACTURER'S INSTALLATION MANUAL. KEEP FLUE TERMINATION AT LEAST 36" ABOVE INTAKE. FLUE AND INTAKE SHALL BE DOUBLE WALL TYPE B-VENT MATERIAL.
2	FIELD PROVIDED 23" DIRECT VENT TERMINATION FOR SIDEWALL DIRECT VENTING. FIELD PROVIDED DRYER INLET FOR SIDEWALL DIRECT INTAKE. SEE MANUFACTURER'S INSTALLATION MANUAL. KEEP FLUE TERMINATION AT LEAST 36" ABOVE INTAKE. FLUE AND INTAKE SHALL BE CPVC MATERIAL.

HVAC GENERAL NOTES

APPLICABLE TO THIS SHEET ONLY	
1	REFER TO DETAIL 3/M0.00-1 FOR EXPOSED DUCT SUPPORT.

PASSIVE MAKE-UP AIR SCHEDULE

ROOM	DOOR LOUVER MINIMUM FREE AREA FT²	DOOR UNDER CUT
POOL EQUIPMENT ROOM P100	0.9	NA



BUILDING P - FLOOR PLAN

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

IDENTIFICATION STAMP
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SS ☑ FLS ☑ ACS ☑
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REVISIONS

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SEAL

REGISTERED PROFESSIONAL ENGINEER
BRYAN P. STARKEY
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EXP. 6/30/26
MECHANICAL
STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

BUILDING P - FLOOR PLAN

PHASE DESCRIPTION
100% CD - DSA APPROVAL
INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: DS
PROJECT MANAGER: BS
JOB NUMBER: 791

SHEET NUMBER
M1.14-1

PLOT DATE: 9/15/2025 4:35:51 PM

INSTANTANEOUS GAS WATER HEATER SCHEDULE

TAG	MAKE	MODEL	FUEL TYPE	FUEL CFH	EFFICIENCY	SET TEMP °F	INSTALLATION LOCATION	ELECTRICAL DATA POWER V/ϕ/HZ	ELECTRICAL DATA MOCP	ACCESSORIES: LOW PROFILE SIDEWALL VENT KIT	ACCESSORIES: OUTDOOR VENT KIT	ACCESSORIES: PLUMB EASY VALVE SET	ACCESSORIES: REMOTE CONTROLLER	ACCESSORIES: INTEGRAL CIRC PUMP	ACCESSORIES: NEUTRALIZER KIT	OPERATING WEIGHT (LBS)	NOTES (SEE BELOW)	INSTALLATION DETAIL
WH 1	RINNAI	RE199E	NG	200	.82	135	POOL BUILDING - OUTSIDE	120/1/60	15	NO	YES	YES	NO	NO	NO	44	N/A	4/P0.01-1
WH 2	RINNAI	RE199E	NG	200	.82	135	POOL BUILDING - OUTSIDE	120/1/60	15	NO	YES	YES	NO	NO	NO	44	N/A	4/P0.01-1

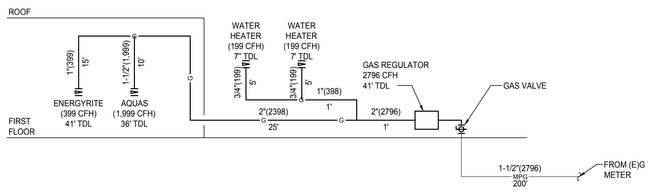
PLUMBING FIXTURE SCHEDULE

TAG	FIXTURE	BRANCH SIZE W	BRANCH SIZE V	BRANCH SIZE CW	BRANCH SIZE HW	ELECTRICAL	MODEL & FITTINGS
FD-1	FLOOR DRAIN	2"	1-1/2"	NA	NA	NA	JAY R. SMITH 2005Y OR APPROVED EQUAL. PROVIDE WITH HEEL PROOF STRAINER, VANDAL PROOF SCREWS AND ROUND TOP UNLESS SPECIFIED OTHERWISE.
FS-1	FLOOR SINK	2"	1-1/2"	NA	NA	NA	WATTS #FS-730, 12"X12"X6-1/4" ENAMELED CAST IRON WITH HALF GRATE AND DOME STRAINER.
HB-1	HOSE BIBB	NA	NA	3/4"	NA	NA	WALL MOUNTED, WOODFORD #24, CHROME PLATED BRASS WITH VACUUM BREAKER, PROVIDE W/LOOSE TEE KEY.
SH-1	SHOWER - ACCESSIBLE	2"	1-1/2"	1/2"	1/2"	NA	BRADLEY #HN250-T24 SURFACE-MOUNTED SHOWER, STAINLESS STEEL, WITH CONCEALED SUPPLIES. 1.5GPM HAND SHOWER. 1.5 GPM SHOWER HEAD. INCLUDED SHALL BE AN AIR PUSHBUTTON, SHOWER PANEL, DIVERTER, THERMOSTATIC MIXING VALVE, AND INLINE VACUUM BREAKER.
SH-2	SHOWER	2"	1-1/2"	1/2"	1/2"	NA	BRADLEY #COL-6C-HN COLUMN SHOWER, STAINLESS STEEL, WITH CONCEALED SUPPLIES. 1.5 GPM SHOWER HEAD. 1.5GPM HAND SHOWERS. PROVIDE AIR PUSHBUTTON, DIVERTER, THERMOSTATIC MIXING VALVE, AND INLINE VACUUM BREAKER.

NOTES: GENERAL NOTES APPLICABLE TO ALL FIXTURES:
A. BRANCH PIPE SIZES TO INDIVIDUAL FIXTURES SHALL BE AS SCHEDULED UNLESS OTHERWISE SPECIFIED.
B. FIXTURES SCHEDULED AS ACCESSIBLE SHALL BE INSTALLED PER ACCESSIBLE FACILITIES REQUIREMENTS. REFER TO ARCHITECTURAL DRAWINGS.

LOW PRESSURE NATURAL GAS SIZING

SYSTEM	QUANTITY	CFH	TOTAL CFH
ENERGYRITE	1	399	399
AQUAS	1	1999	1999
WATER HEATER	2	199	398
TOTAL			2796
FUEL TYPE			**NATURAL GAS**
DISTANCE FROM REGULATOR TO FURTHEST APPLIANCE (FT)			50
INLET PRESSURE (PSI)			< 2
PRESSURE DROP (IN. W.C.)			0.5
PIPE SIZE REQUIRED (INCHES)			3
PIPE SIZE PROVIDED (INCHES)			3
ABOVE GRADE PIPING SIZED IN ACCORDANCE WITH 2022 CPC TABLE 1215.2(2)			
BELOW GRADE PIPING SIZED IN ACCORDANCE WITH 2022 CPC TABLE 1215.2(21)			



NOTES:
1. CONNECT TO INDIVIDUAL UNITS PER MANUFACTURER SIZING RECOMMENDATIONS.
2. EACH CONNECTION TO EQUIPMENT SHALL BE PROVIDED WITH A MINIMUM 6" SEDIMENT TRAP LOCATED IMMEDIATELY AFTER THE SHUT OFF VALVE.
3. HIGH PRESSURE GAS REGULATOR MUST BE INSTALLED A MINIMUM OF 10' FROM ENERGYRITE APPLIANCE.

A GAS RISER DIAGRAM

SCALE: NOT TO SCALE

PLUMBING LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
		BACK FLOW PREVENTOR
		BALANCING VALVE
		BALL VALVE
	BFV	BUTTERFLY VALVE
		CAP
		CHECKVALVE
	CP	CIRCULATION PUMP
	COTG	CLEAN OUT THROUGH GRADE
Ø	DIA	DIAMETER
ϕ		ELECTRICAL PHASE
	FCO	FLOOR CLEAN OUT
	HB	HOSE BIBB
D		PIPE REDUCER
		RECESSED HOSE BIBB
		SHUT OFF VALVE IN PIPE DROP OR PIPE RISER
	YB	SHUT OFF VALVE IN YARD BOX
		STRAINER
	T&P	TEMPERATURE AND PRESSURE RELIEF VALVE
	TPV	TRAP PRIMER VALVE
		UNION
		PIPE DOWN
		PIPE UP
		PIPE TEE DOWN
		PIPE INTERSECTION
		PLUG VALVE ELEVATION VIEW
	PV	PLUG VALVE PLAN VIEW
		REDUCED PRESSURE BACK FLOW PREVENTOR
WCO	WCO	WALL CLEANOUT
	WHA	WATER HAMMER ARRESTOR
CW	CW	COLD WATER
CD	CD	CONDENSATE DRAIN
G	G	GAS (NATURAL)
MPG	MPG	MEDIUM PRESSURE GAS (NATURAL OR PROPANE)
HW	HW	HOT WATER
HWR	HWR	HOT WATER RETURN
V	V	SANITARY VENT
TP TP	TP	TRAP PRIMER
S/W	S/W	WASTE (BELOW GRADE)
22x30 MIN AP	AP	ACCESS PANEL. SIZE GIVEN INDICATES MINIMUM SIZE REQUIRED

PLUMBING ABBREVIATIONS

ABV	ABOVE	GPF	GALLONS PER FLUSH
ADA	AMERICANS WITH DISABILITIES ACT	GPM	GALLONS PER MINUTE
AFF	ABOVE FINISHED FLOOR	GW	GREASE WASTE
AG	ABOVE GRADE	HP	HORSE POWER
AHJ	AUTHORITY HAVING JURISDICTION	HW	HOT WATER
ALUM	ALUMINUM	I.E.	INVERT ELEVATION
AMP	AMPERAGE	IN/H	INCHES PER HOUR
AP	ACCESS PANEL	IWC	INCHES OF WATER COLUMN
ARCH	ARCHITECT, ARCHITECTURAL	KW	KILOWATTS
BEL	BELOW	LAV	LAVATORY
BF	BELOW FLOOR	LBS	POUNDS
BG	BELOW GRADE	MAX	MAXIMUM
BFP	BACKFLOW PREVENTOR	MBH	1000 BRITISH THERMAL UNITS PER HOUR
BLDG	BUILDING	MCA	MINIMUM CIRCUIT AMPS
BOD	BASIS OF DESIGN	MECH	MECHANICAL
BTUH	BRITISH THERMAL UNIT PER HOUR	MFGR	MANUFACTURE OR MANUFACTURER
CA	COMBUSTION AIR	MIN	MINIMUM
CD	CONDENSATE DRAIN	(N)	NEW
CFH	CUBIC FEET PER HOUR	NPS	NOMINAL PIPE SIZE
CI	CAST IRON	NTS	NOT TO SCALE
CONN	CONNECTION	PH	PHASE
CONT	CONTINUATION	PSI	POUNDS PER SQUARE INCH
CP	CHROME PLATED	PW	PROCESS WASTE
CPC	CALIFORNIA PLUMBING CODE	RM	ROOM
COTG	CLEAN OUT THROUGH GRADE	RPM	REVOLUTIONS PER MINUTE
CW	COLD WATER	SDL	STORM DRAIN LEADER
DFU	DRAINAGE FIXTURE UNITS	SDO	STORM DRAIN OVERFLOW
DN	DOWN	SOV	SHUT OFF VALVE
DSA	DIVISION OF THE STATE ARCHITECT	SS	STAINLESS STEEL
(E)	EXISTING	TEMP	TEMPORARY, TEMPERATURE
EC	EVAPORATIVE COOLER	TYP	TYPICAL
EFF	EFFICIENCY	UON	UNLESS OTHERWISE NOTED
ELEC	ELECTRICAL	UTR	UP TO OR UP THROUGH ROOF
EQPT	EQUIPMENT	V	VENT
FCO	FLOOR CLEAN OUT	VAC	VACUUM
FFE	FINISH FLOOR ELEVATION	VTR	VENT THROUGH ROOF
FLA	FULL LOAD AMPS	W	WASTE
FLR	FLOOR	WC	WATER CLOSET
FPS	FEET PER SECOND	WCO	WALL CLEAN OUT
FR	FROM	WHA	WATER HAMMER ARRESTOR
FT	FLUSH TANK	WSFU	WATER SUPPLY FIXTURE UNIT
FV	FLUSH VALVE	WT	WEIGHT EXPRESSED IN POUNDS
GA	GAGE OR GAUGE	W/	WITH
GPC	GALLONS PER CYCLE	W/O	WITHOUT

PLUMBING GENERAL NOTES

1. COMPLY WITH THE REQUIREMENTS OF THE FOLLOWING CODES:
   2025 CALIFORNIA ADMINISTRATIVE CODE (CAC): PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
   2022 CALIFORNIA BUILDING CODE (CBC): PART 2, TITLE 24 CCR
   2022 CALIFORNIA ELECTRICAL CODE (CEC): PART 3, TITLE 24 CCR
   2022 CALIFORNIA MECHANICAL CODE (CMC): PART 4, TITLE 24 CCR
   2022 CALIFORNIA PLUMBING CODE (CPC): PART 5, TITLE 24 CCR
   2022 CALIFORNIA ENERGY CODE (CENC): PART 6, TITLE 24 CCR
   2022 CALIFORNIA FIRE CODE (CFC): PART 9, TITLE 24 CCR
   2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CAL GREEN): PART 11, TITLE 24 CCR

   REPORT DEFICIENCIES WITHIN THIRTY (30) DAYS UPON AUTHORIZATION TO PROCEED.
2. NO PLUMBING SHALL BE INSTALLED UNTIL ALL REQUIRED PLUMBING PLAN CHECK PERMITS AND APPROVALS HAVE BEEN OBTAINED FROM ALL REQUIRED AGENCIES.
3. LAVATORY FAUCETS, SINK FAUCETS (NOT INCLUDING SERVICE SINK FAUCETS OR FAUCETS DESIGNATED AS INSTITUTIONAL) SHALL MEET THE FLOW REQUIREMENTS OUTLINED IN THE APPLIANCE EFFICIENCY STANDARDS.
4. COORDINATE WITH THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF PLUMBING FIXTURES AND DRAINS.
5. PROVIDE ALL TAILPIECES, TRAPS, STOPS, AND SUPPLY PIPES TO LAVATORIES DESIGNED AS ACCESSIBLE, WITH PREFORMED INSULATION JACKET.
6. COORDINATE AND SCHEDULE TIMING FOR ALL UTILITY SERVICE CONNECTIONS.
7. ALL LINES BELOW SLAB ON GRADE TO BE LOCATED AWAY FROM ALL LOAD BEARING FOOTINGS.
8. ALL VENTS THRU ROOF SHALL BE MINIMUM OF 36 INCHES ABOVE ANY MECHANICAL VENTILATION AIR INTAKE WITHIN 10 FEET, PROVIDE VANDAL PROOF HOODS ON ALL VENTS THROUGH ROOF.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING OF WALLS, ROOFS, FOOTINGS, FLOORS, INCLUDING ALL SAW CUTTING AND CORE DRILLING. COORDINATE ALL SAW CUTTING AND CORE DRILLING WITH STRUCTURAL DRAWINGS. ANY CUTTING AND DRILLING REQUIRED OF STRUCTURAL ELEMENTS THAT IS NOT SPECIFICALLY SHOWN ON THE PLANS SHALL BE BROUGHT TO THE ARCHITECTS ATTENTION PRIOR TO CUTTING AND DRILLING. CONTRACTOR SHALL SUBMIT PROPOSED LOCATION AND SIZES OF SUCH CUTTING AND DRILLING FOR THE ARCHITECTS AND STRUCTURAL ENGINEERS APPROVAL.
10. COORDINATE ALL EQUIPMENT LOCATIONS, PIPE PENETRATIONS AND EQUIPMENT PAD LOCATIONS WITH STRUCTURAL DRAWING PRIOR TO WORK.
11. COORDINATE INSTALLATION OF ALL EQUIPMENT AND PIPING WITH OTHER TRADES PRIOR TO INSTALLATION. ENSURE THAT ALL CONTROL DEVICES, SHUT-OFF VALVES, ETC. ARE ACCESSIBLE FOR MAINTENANCE. WHERE ACCESS PANELS IN FINISHED SPACES, OTHER THAN THAT SHOWN, CONTRACTOR SHALL PROVIDE AND COORDINATE EXACT LOCATION OF PANELS WITH ARCHITECT PRIOR TO INSTALLATION.
12. ANY STRUCTURAL FIREPROOFING DAMAGED DURING INSTALLATION OF PLUMBING EQUIPMENT, PIPING, ETC. SHALL BE REPAIRED AT NO COST TO THE OWNER. REPAIRS SHALL BE AS DIRECTED BY THE ARCHITECT.
13. ALL PIPING PASSING THROUGH CONCRETE/MASONRY WALLS AND FLOORS ARE TO BE SLEEVED.
14. NEW OR REPAIRED POTABLE WATER SYSTEMS SHALL BE DISINFECTED PRIOR TO USE PER 2022 CPC 609.10. THE METHOD TO BE FOLLOWED SHALL BE THAT PRESCRIBED BY THE HEALTH AUTHORITY OR, IN CASE NO METHOD IS PRESCRIBED BY IT, THE FOLLOWING:
   A) THE PIPE SYSTEM SHALL BE FLUSHED WITH CLEAN, POTABLE WATER UNTIL POTABLE WATER APPEARS AT THE POINTS OF OUTLET.
   B) THE SYSTEM OR PARTS THEREOF SHALL BE FILLED WITH A WATER-CHLORINE SOLUTION CONTAINING NOT LESS THAN 50 PARTS PER MILLION OF CHLORINE, AND THE SYSTEM OR PART THEREOF SHALL BE VALVED-OFF AND ALLOWED TO STAND FOR 24 HOURS; OR, THE SYSTEM OF PART THEREOF SHALL BE FILLED WITH A WATER-CHLORINE SOLUTION CONTAINING NOT LESS THAN 200 PARTS PER MILLION OF CHLORINE AND ALLOWED TO STAND FOR 3 HOURS.
   C) FOLLOWING THE ALLOWED STANDING TIME, THE SYSTEM SHALL BE FLUSHED WITH CLEAN, POTABLE WATER UNTIL THE CHLORINE RESIDUAL IN THE WATER COMING FROM THE SYSTEM DOES NOT EXCEED THE CHLORINE RESIDUAL IN THE FLUSHING WATER.
   D) THE PROCEDURE SHALL BE REPEATED WHERE IT IS SHOWN BY BACTERIOLOGICAL EXAMINATION MADE BY AN APPROVED AGENCY THAT CONTAMINATION PERSISTS IN THE SYSTEM.

MECHANICAL, ELECTRICAL AND PLUMBING ANCHORAGE NOTE

1. ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTER 13, 26 AND 30.
   A. ALL PERMANENT EQUIPMENT AND COMPONENTS.
   B. TEMPORARY, MOVABLE, OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
   C. TEMPORARY, MOVABLE, OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.
2. THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:
   A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
   B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.
3. THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL, AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING, DUCTWORK & ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE APPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP	X	MD	X	PP	X	E
MP		MD		PP		E

OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH THE PROJECT SPECIFIC NOTES AND DETAILS

OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL OPM-0052-13

NOTE: REFER TO ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR ITEMS RELATED TO THE ELECTRICAL SYSTEM. LOW VOLTAGE CONDUIT FOR MECHANICAL SYSTEM CONTROLS SHALL BE IN ACCORDANCE WITH THE ELECTRICAL REQUIREMENTS.

PLUMBING TITLE 24 NOTES

1. PROVIDE WATER HEATERS CERTIFIED IN COMPLIANCE WITH CALIFORNIA ENERGY APPLIANCE EFFICIENCY STANDARDS.
2. PROVIDE DOMESTIC HOT WATER PIPING INSULATION IN ACCORDANCE WITH THE CALIFORNIA ENERGY EFFICIENCY STANDARDS.

PROJECT TEAM LIST

TITLE	NAME	DESK NUMBER	EMAIL ADDRESS
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PROJECT MANAGER	BRIAN STARRETT	805.540.5358	BSTARRETT@3CENG.COM
MECHANICAL DESIGNER	DREW SCHMIDT	805.540.3363 EXT 310	DSCHMIDT@3CENG.COM
PLUMBING DESIGNER	ELI FERMAN	805.540.3363 EXT 309	EFERMAN@3CENG.COM

SHEET INDEX

SHEET NUMBER	SHEET TITLE
P0.00	BUILDING P - GENERAL & SCHEDULES
P0.01	BUILDING P - DETAILS
P1.00	BUILDING P - SITE PLAN
P1.14	BUILDING P - FLOOR PLANS

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REVIEWED FOR
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REGISTERED PROFESSIONAL ENGINEER
BRYAN P. STARRETT
M 34068
EXP. 6/30/26
MECHANICAL
STATE OF CALIFORNIA

PROJECT

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AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
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GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

BUILDING P - GENERAL & SCHEDULES

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

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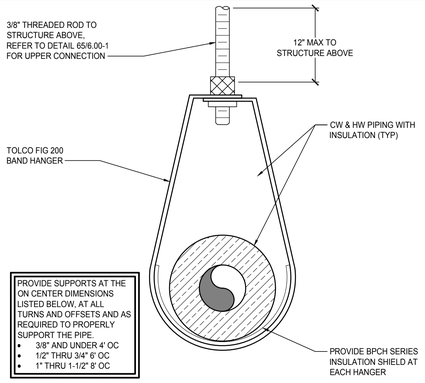
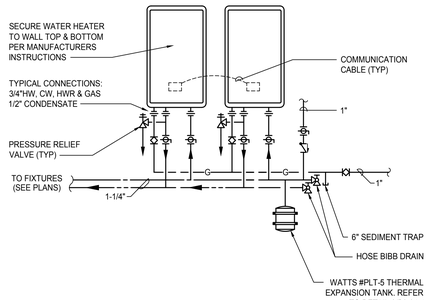
P0.00-1

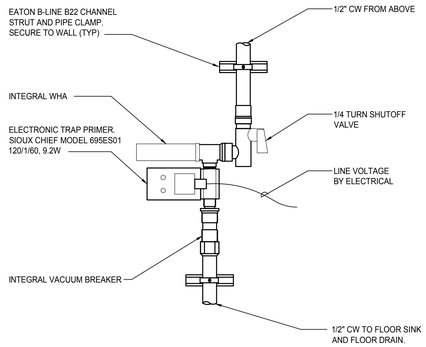
PLOT DATE: 8/6/2025 5:07:24 PM



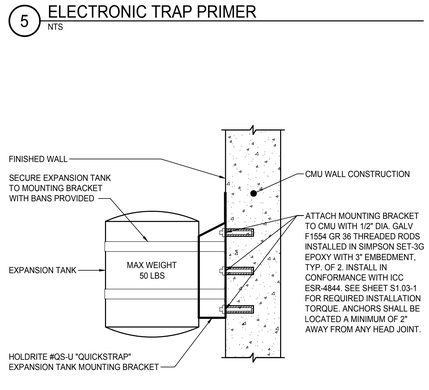
8 LINE SET SUPPORT DETAIL
NTS



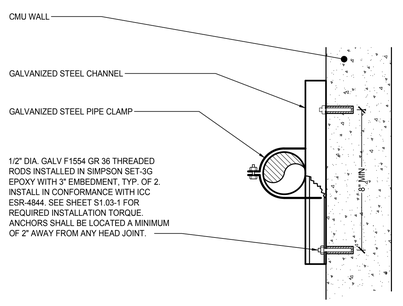
4 WATER HEATER DETAIL
NTS



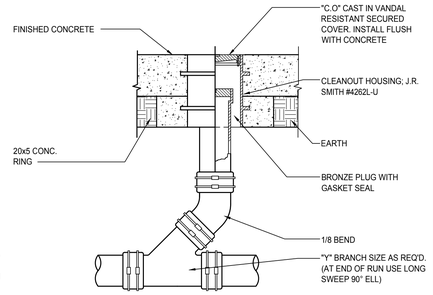
5 ELECTRONIC TRAP PRIMER
NTS



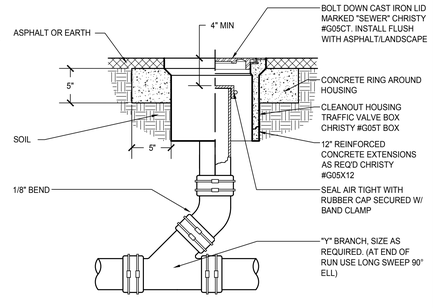
6 EXPANSION TANK SUPPORT
NTS



7 PIPE SUPPORT - CMU WALL
NTS



FINISHED CONCRETE AREAS



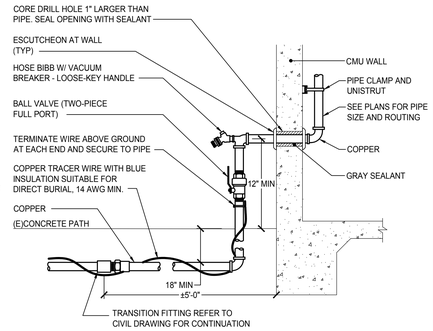
ASPHALT & LANDSCAPED AREAS

CLEANOUTS IN PIPING 2" OR LESS SHALL HAVE A CLEARANCE OF NOT LESS THAN 18" X 18" IN FRONT OF THE CLEANOUT, CLEANOUTS IN PIPING LARGER THAN 2" INCHES SHALL HAVE A CLEARANCE OF NOT LESS THAN 24" X 24".

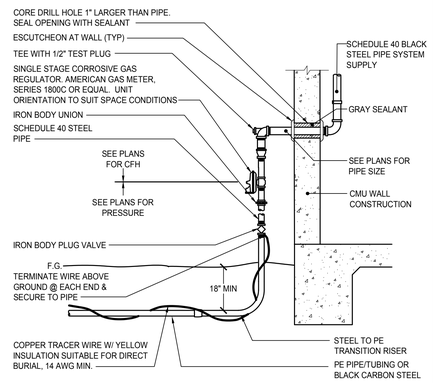
CLEANOUTS: CPC TABLE 707.1

PIPE SIZE	CLEANOUT SIZE	THREADS (PER INCH)
1-1/2" - 2"	1-1/2"	11-1/2
2-1/2" - 3"	2-1/2"	8
4" & LARGER	3-1/2"	8

1 CLEANOUT TO GRADE
NTS



2 BUILDING WATER SUPPLY
NTS



3 GAS SERVICE TO BUILDING
NTS

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SS ☑ FLS ☑ ACS ☑
DATE: 9/30/2025

AGD
ARCHITECTURE | DESIGN

ANDREW GOODWIN DESIGNS
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SAN LUIS OBISPO, CA 93422
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REVISIONS

REV #	REV DATE	REV DESCRIPTION

SEAL

REGISTERED PROFESSIONAL ENGINEER
BRYAN P. STARKEY
M 34068
EXP. 6/30/26
MECHANICAL
STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

BUILDING P - DETAILS

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: DS
PROJECT MANAGER: BS
JOB NUMBER: 791

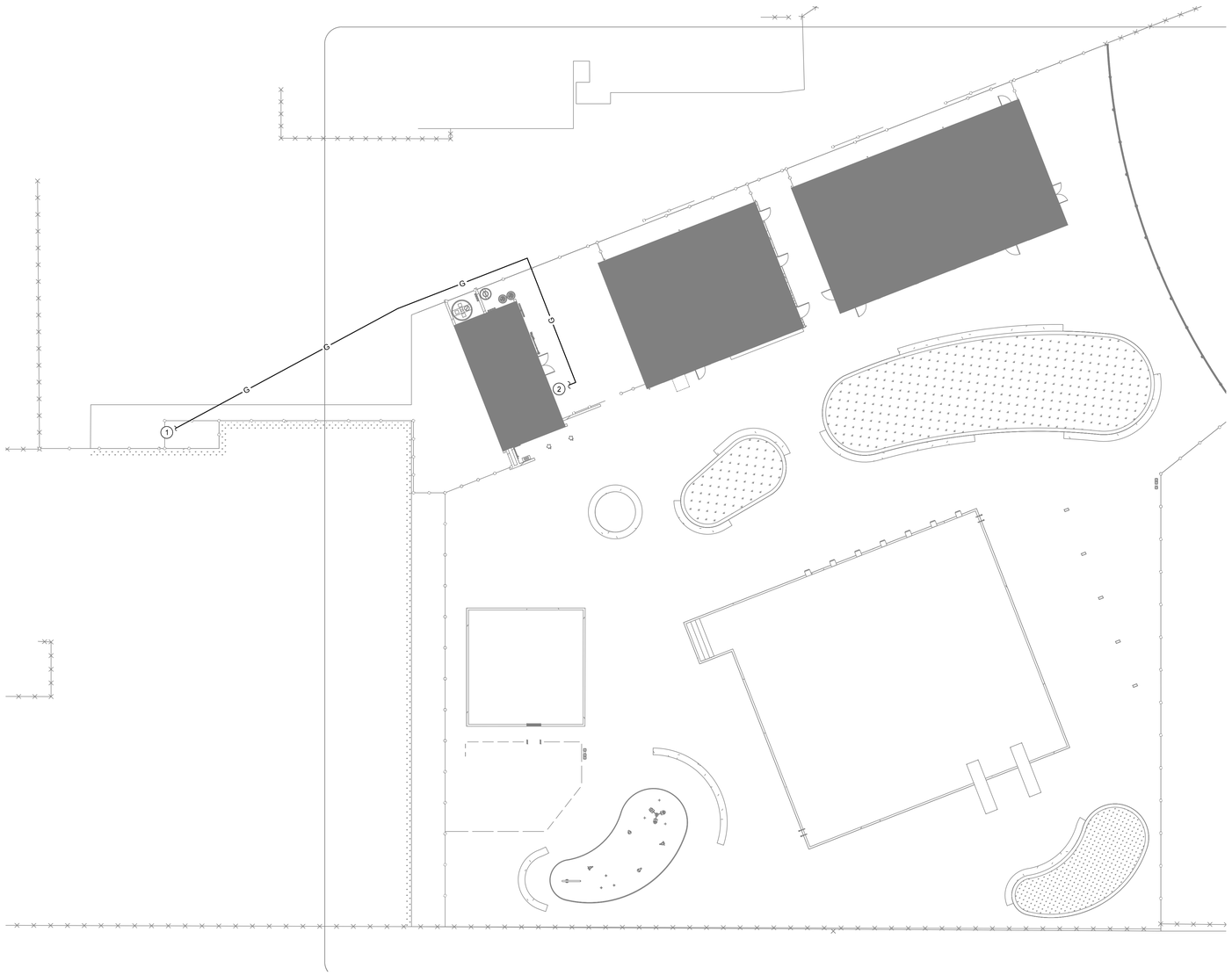
SHEET NUMBER
P0.01-1

PLOT DATE: 8/6/2025 5:07:24 PM

CONNECT TO EXISTING PLUGGED SHUT OFF VALVE. PROVIDE NEW 7"-14" W.C. REGULATOR.

2 (E) GAS MANIFOLD

SCALE: NTS



1 BUILDING P - PLUMBING SITE

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

KEY NOTES

APPLICABLE TO THIS SHEET ONLY

1	REFER TO CIVIL PLANS FOR CONTINUATION.
2	REFER TO 1/P1.14-1 FOR CONTINUATION.

PLUMBING GENERAL NOTES

APPLICABLE TO THIS SHEET ONLY

1	SEE PLUMBING FIXTURE SCHEDULE FOR BRANCH PIPE SIZING.
2	SEE GAS RISER DIAGRAM ON SHEET P0.00-1 FOR SIZING, CALCULATIONS AND EQUIPMENT LOADS.

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REVISIONS

REV #	REV DATE	REV DESCRIPTION

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REGISTERED PROFESSIONAL ENGINEER
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M 34068
EXP. 6/30/26
MECHANICAL
STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

BUILDING P - SITE PLAN

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: DS
PROJECT MANAGER: BS
JOB NUMBER: 791

SHEET NUMBER
P1.00-1

PLOT DATE: 8/6/2025 5:07:30 PM

KEY NOTES

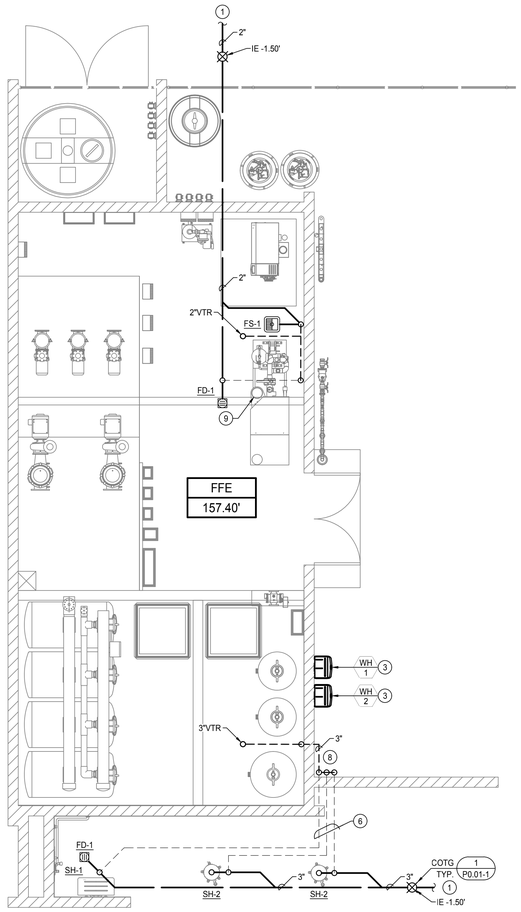
APPLICABLE TO THIS SHEET ONLY

1	REFER TO CIVIL PLANS FOR CONTINUATION.
2	RUN HW & CW BELOW GRADE.
3	3/4" CW, 3/4" HW, AND 3/4""G TO WATER HEATERS. SEE DETAIL 4/P0.01-1 FOR MORE INFORMATION.
4	REFER TO P1.00 FOR CONTINUATION.
5	(3) 1-1/2" VENTS FROM BELOW. COMBINE 6" ABOVE GRADE.
6	RUN VENTS BELOW GRADE.
7	ROUTE CW PIPE DOWN WALL, LEAVE EXPOSED, AND CONNECT TO ELECTRIC TRAP PRIMER. SEE DETAIL 5/P0001 FOR MORE INFROMATION.
8	COMBINE VENTS 6" ABOVE FINISH GRADE.
9	PROVIDE WITH CONDENSATE NEUTRALIZER. ROUTE CD DRAIN TO FS-1.

PLUMBING GENERAL NOTES

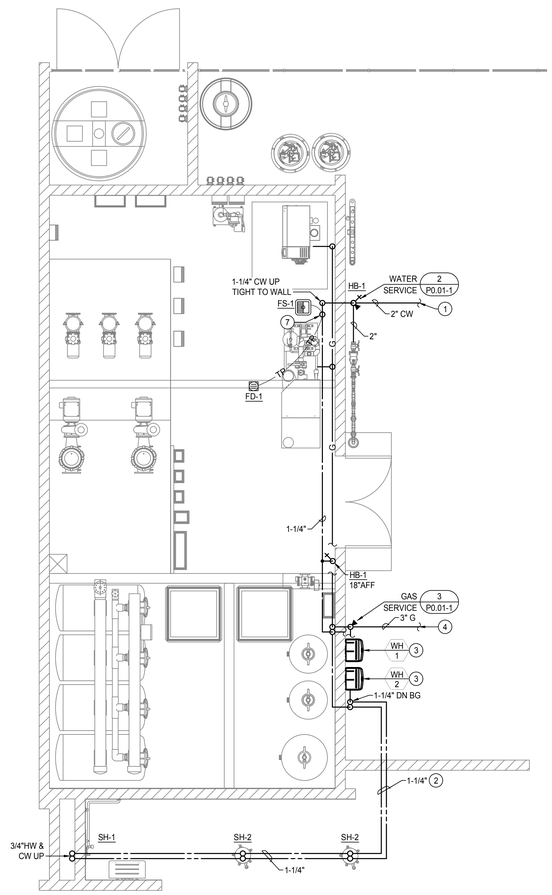
APPLICABLE TO THIS SHEET ONLY

1	SEE PLUMBING FIXTURE SCHEDULE FOR BRANCH PIPE SIZING.
2	PROVIDE ANGLE STOPS FOR ALL PLUMBING FIXTURE BRANCH PIPING LINES.
3	SEE GAS RISER DIAGRAM ON SHEET P0.00-1 FOR SIZING, CALCULATIONS AND EQUIPMENT LOADS.
4	SLOPE VENT PIPING UP TOWARDS VTR MIN 1%.
5	SLOPE CONDENSATE PIPING MIN 1% IN DIRECTION OF FLOW.
6	PLUMBING VENTS SHALL TERMINATE NOT LESS THAN 6" ABOVE THE ROOF, NOR LESS THAN 12" FROM A VERTICAL SURFACE. MAINTAIN 10'-0" CLEARANCE FROM BUILDING AIR INTAKES.
7	REFER TO ARCHITECTURAL SLAB PLAN FOR EXACT LOCATION OF FIXTURES, INCLUDING BUT NOT LIMITED TO FLOOR SINKS, FLOOR DRAINS, TRENCH DRAINS, ROOF DRAINS, ETC. ARCHITECTURAL PLANS SHALL TAKE PRECEDENCE.
8	REFER TO MECHANICAL PLANS FOR LOCATIONS OF MECHANICAL EQUIPMENT AND DUCTWORK. COORDINATE ALL WORK TO FIT IN AVAILABLE SPACE.
9	COORDINATE PIPE ROUTING WITH LOCATION OF ELECTRICAL AND DATA PANELS. PIPING SHALL NOT BE ROUTED ABOVE THE PANELS.



2 BUILDING P - WASTE & VENT

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



1 BUILDING P - WATER & GAS

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

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TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

BUILDING P - FLOOR PLANS

PHASE DESCRIPTION
100% CD - DSA APPROVAL
INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: DS
PROJECT MANAGER: BS
JOB NUMBER: 791

SHEET NUMBER
P1.14-1

PLOT DATE: 8/6/2025 5:07:31 PM

GENERAL CONSTRUCTION NOTES

1. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS. MATERIALS AND EQUIPMENT SHALL BE U.L. LISTED AND LABELED FOR THE APPLICATION.
2. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, LICENSES AND INSPECTION FEES REQUIRED BY THIS CONTRACT WORK.
3. CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO BIDDING AND ALLOW FOR ALL FIELD CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL WORK NOTED AND CALLED OUT ON ALL CONTRACT DOCUMENTS. THE CONTRACTOR SHALL OBTAIN INFORMATION AND BE FAMILIAR WITH ALL OTHER TRADES WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION BETWEEN OTHER TRADES ON PROJECT.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF PERSONS AND PROPERTY AND SHALL PROVIDE INSURANCE COVERAGE AS NECESSARY FOR LIABILITY AND PERSONAL PROPERTY DAMAGE, TO FULLY PROTECT THE OWNER, ARCHITECT AND ENGINEER FROM ANY AND ALL CLAIMS RESULTING FROM THIS WORK.
5. CONTRACTOR SHALL MAINTAIN RECORD DRAWINGS AT THE PROJECT SITE INDICATING ALL MODIFICATIONS TO ELECTRICAL SYSTEMS. THE CONTRACTOR SHALL AT THE CONCLUSION OF THE PROJECT PROVIDE ACCURATE "AS-BUILT" DRAWINGS ACCEPTABLE TO THE ARCHITECT.
6. ALL MATERIALS PROVIDED TO THE PROJECT SHALL BE NEW. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AND INSTALL ALL INCIDENTAL MATERIALS REQUIRED FOR A COMPLETE INSTALLATION.
7. CONTRACTOR SHALL PROVIDE TO THE ARCHITECT A CONSTRUCTION SCHEDULE OF ELECTRICAL WORK. THE CONSTRUCTION SCHEDULE SHALL IDENTIFY ALL SIGNIFICANT MILESTONES WITH COMPLETION DATES.
8. CONTRACTOR SHALL PROVIDE ALL REQUIRED "CUTTING, PATCHING, EXCAVATION, BACKFILL AND REPAIRS" NECESSARY TO RESTORE DAMAGED SURFACES TO EQUAL OR BETTER THAN ORIGINAL CONDITIONS EXISTING AT START OF WORK.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR PAINTING ALL EXPOSED CONDUITS AND ELECTRICAL EQUIPMENT. REFER TO ARCHITECTS PAINTING SECTION FOR REQUIREMENTS.
10. ALL ELECTRICAL EQUIPMENT INSTALLED OUTDOORS SHALL BE WEATHERPROOF. EXTERIOR CONDUITS RUN INTO BUILDINGS SHALL BE INSTALLED WITH FLASHING, CAULKED AND SEALED. CONDUITS FOR EXTERIOR ELECTRICAL DEVICES SHALL BE RUN INSIDE BUILDING UNLESS OTHERWISE NOTED ON DRAWINGS.
11. ALL CONDUITS UNLESS OTHERWISE NOTED ON DRAWINGS SHALL HAVE AS A MINIMUM: TWO (2) #12s WITH ONE (1) #12 GROUND. "TICK" MARKS SHOWN ON CIRCUITRY ARE FOR ROUGH ESTIMATING ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WIRES AND WIRE SIZES REQUIRED BY LATEST CODE.
12. ALL BRANCH CIRCUITS SHALL HAVE INDIVIDUAL NEUTRALS. SHARED NEUTRALS ON MULTIWIRE CIRCUITS IS NOT ALLOWED.
13. ALL 120/277V LIGHT SWITCHES AND WALL OCCUPANT SENSORS SHALL HAVE A NEUTRAL INSTALLED TO THE DEVICE BOX EXCEPT WHERE A CONDUIT OR SURFACE RACEWAY SYSTEM IS INSTALLED.
14. COORDINATE ALL CONDUIT RUNS, ELECTRICAL EQUIPMENT AND PANELS WITH ALL OTHER WORK TO AVOID CONFLICTS.
15. SEE ARCHITECTURAL DOCUMENTS FOR EXACT PLACEMENT OF LIGHTING FIXTURES AND DEVICES. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF CEILING TYPES FROM ARCHITECTURAL DOCUMENTS AND PROVIDE AND INSTALL ALL REQUIRED FIXTURE MOUNTING HARDWARE. PROVIDE AND INSTALL U.L. LISTED FIRE STOP ENCLOSURES FOR ALL RECESSED FIXTURES IN FIRE RATED CEILINGS.
16. FROM ALL NEW FLUSH MOUNT PANELS; THE CONTRACTOR SHALL STUB UP INTO ACCESSIBLE CEILING SPACE A MINIMUM OF FOUR (4) 3/4" CONDUITS FOR FUTURE USE.
17. CONTRACTOR SHALL, PRIOR TO BID, FIELD VERIFY ALL REQUIREMENTS FOR MODIFYING THE EXISTING CLOCK, DATA, AND INTERCOM SYSTEMS TO ACCOMMODATE ADDITIONS NOTED. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS NEEDED TO MAKE A FULLY OPERATIONAL SYSTEM AT THE CONCLUSION OF PROJECT WORK.
18. CONTRACTOR SHALL PROVIDE IN EVERY NEW EMPTY CONDUIT A DRAW STRING FOR USE IN FUTURE CONSTRUCTION.
19. ALL CONDUIT SHALL BE CONCEALED WHERE POSSIBLE. CUT AND PATCH EXISTING WALLS WHERE NECESSARY. WHERE IT IS NECESSARY TO CUT OR BORE EXISTING STRUCTURAL WALLS FOR NEW ELECTRICAL WORK OBTAIN PERMISSION FROM THE ARCHITECT PRIOR TO STARTING WORK. REUSE EXISTING CONDUIT WHERE POSSIBLE.
20. WHERE IT IS NOT POSSIBLE TO REUSE EXISTING CONDUIT OR RUN NEW CONCEALED CONDUIT USE NON-METALLIC SURFACE RACEWAY AND BOXES. ROUTING OF ALL NON-METALLIC RACEWAYS SHALL BE APPROVED BY THE ARCHITECT OR OWNER'S REPRESENTATIVE PRIOR TO ROUGH-IN.
21. EXTENSION RINGS OR RESET BOXES TO BE FLUSH WITH NEW WALL THICKNESS.
22. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO EXISTING UNDERGROUND SYSTEMS (GAS, WATER, TELEPHONE, ELECTRICAL, SEWER, ETC.). THE CONTRACTOR SHALL REPAIR & PAY ALL EXPENSES FOR DAMAGE TO EXISTING UNDERGROUND SYSTEMS AS A RESULT OF NEW WORK. REPAIR TO DAMAGED UNDERGROUND SYSTEMS SHALL BE TO THE OWNERS SATISFACTION WITHOUT EXTRA EXPENSE TO THE OWNER.
23. EXISTING WIRING SHOWN HAS BEEN TAKEN FROM OLD PLANS AND IS ASSUMED TO BE CORRECT. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ACTUAL CONDITIONS AND MAKE ADJUSTMENTS TO SUIT ACTUAL CONDITIONS AND TO MEET THE INTENT OF THE CONTRACT DOCUMENTS.
24. WHERE NON-METALLIC SHEATHED CONDUCTORS ARE FOUND, THE CONTRACTOR SHALL REMOVE TO FULLEST EXTENT PER THE GENERAL DEMOLITION NOTES AND REPLACE WITH CONDUIT. METAL CLAD CABLE WILL BE PERMITTED ON A CASE-BY-CASE BASIS ONLY BY WRITTEN APPROVAL FROM THE ARCHITECT.
25. ALL INSTALLATION OF EXPOSED SURFACE MOUNTED RACEWAY IN PUBLIC AREAS SHALL BE REVIEWED BY [ARCHITECT] [ELECTRICAL ENGINEER] BEFORE ROUGH-IN. CONTRACTOR IS TO DETERMINE THE ACCESSIBILITY OF ATTIC, FURRED SPACE, HOLLOW MULLIONS, ETC. IN EACH AREA AND REVIEW WITH [ARCHITECT] [ELECTRICAL ENGINEER]. IF SYSTEM CAN BE ROUTED CONCEALED EITHER BY FISHING OR ACCESSIBILITY, CONTRACTOR IS TO DO SO. IF INACCESSIBILITY IS DETERMINED, CONTRACTOR SHALL INSTALL SURFACE MOUNTED RACEWAY IN THE MOST AESTHETICALLY PLEASING MEANS AS DETERMINED BY THE [ARCHITECT] [ELECTRICAL ENGINEER]. NO ALLOWANCE FOR ADDITIONAL COMPENSATION DUE TO ROUTING AS DIRECTED BY THE [ARCHITECT] [ELECTRICAL ENGINEER] WILL BE MADE.
26. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES AND DISTRICT FOR ANY DOWNTIMES.

LIGHT FIXTURE SCHEDULE

FIXTURE NOTES:

1. ALL LED LIGHT FIXTURE BALLASTS/DRIVERS SHALL BE ELECTRONIC TYPE, 10% TOTAL HARMONIC DISTORTION MAXIMUM.
2. ALL LED LIGHT MODULES SHALL BE ENERGY SAVING 3500° K, 80 CRI MINIMUM, U.O.N. (SEE SPECIFICATIONS FOR MORE INFORMATION).
3. ALL LED DRIVERS (AND ASSOC. FIXTS.) SHALL HAVE MANUFACTURER'S CERTIFICATION OF COMPLIANCE WITH CALIFORNIA ENERGY COMMISSION STANDARDS AND REQUIREMENTS, WHERE SUCH ARE USED IN CONDITIONED SPACES.
4. EXIT SIGNS , EMERGENCY LIGHTS AND LIGHT FIXTURES WITH EMERGENCY BATTERY BACK-UP SHALL SUPPLY A MINIMUM DURATION OF 90 MINUTES OF POWER IN THE EVENT OF A POWER OUTAGE/FAILURE.

TYPE	DESCRIPTION	LAMPS	MANUFACTURER
A	7"W x 4'L SUSPENDED LED FIXTURE, FIBERGLASS BODY, .050 ALUMINUM HOUSING, FROSTED RIBBED IMPACT-RESISTANT ACRYLIC DIFFUSER, STAINLESS STEEL LATCHES, FINISH PER ARCHITECT, 0-10V DIMMING DRIVER, 120V.	48W LED 3500°K	H.E. WILLIAMS LIGHTING 96 SERIES
AE	SAME AS FIXTURE TYPE "A" EXCEPT W/ EMERGENCY BATTERY BACK-UP.	48W LED 3500°K	H.E. WILLIAMS LIGHTING 96 SERIES
XA	POLE MOUNTED LED LIGHT FIXTURE HEAD, RECTANGULAR LUMINAIRE HOUSING, 277V. POLE: 12' STEEL POLE	70W 6407 LUMENS 3000K	HESS LIGHTING LINEA 450 G2 SERIES POLE: HESS LIGHTING
XAE	SAME AS FIXTURE "XA" EXCEPT W/ EMERGENCY BATTERY BACK UP	70W 6407 LUMENS 3000K	HESS LIGHTING LINEA 450 G2 SERIES POLE: HESS LIGHTING
XB	12"L x 6"D x 8"W LED WALL SCONCE. DIE CAST ALUMINUM HOUSING, TYPE 2 DISTRIBUTION, 0-10V DIMMING DRIVER, TEXTURED POLYESTER POWDER COAT FINISH, 277V.	23W LED 3000K	GARDCO GWM SERIES
XBE	SAME AS FIXTURE TYPE "XB" EXCEPT WITH EMERGENCY BATTERY BACK-UP	23W LED 3000K	GARDCO GWM SERIES
XC	16" SQUARE X 6"D SURFACE MOUNT LED FIXTURE, 0-10V DIMMING DRIVER, 120V, WET LABEL WITH MARINE GRADE FINISH. ANTI-SEIZE STAINLESS STEEL SCREWS, 277V. (CONTRACTOR SHALL PROVIDE 10% DRIVER OVERSTOCK FOR ALL FIXTURES.)	20W LED 3500K	KENALL LIGHTING MS15 SERIES
XD	SURFACE MOUNT FLEXIBLE ENCAPSULATED LED STRIP LIGHT, 6" BEND RADIUS, WET LABEL, 24V. FIELD VERIFY EXACT LENGTH OF FIXTURE. FOR RUNS WITH MULTIPLE FIXTURES THAT NEED TO FILL A SPECIFIC LENGTH, ORDER ALL OPTIMAL FIXTURES WITH AN EXACT FIXTURE AT THE END OF THE RUN, UTILIZE CLEAR END CAPS FOR SEAMLESS CONTINUOUS RUNS.	1.5W/FT LED 3500K	QTL LIGHTING Q-CAP KURV STATIC WHITE SERIES KURV-SW-PPS-LP-2-WET-1.5-S5-CON6-CL-O
XP	POLE MOUNTED LED LIGHT (4) FIXTURE HEADS, HEAVY DUTY DIE-CAST ALUMINUM HOUSING, 277V. POLE: 33' HIGH ROUND TAPERED STEEL POLE	884W LED -	VISIONAIRE LIGHTING BOW-LX-II LED SERIES POLE: KW LIGHTING

ELECTRICAL SYMBOLS & ABBREVIATIONS

SYMBOLS & ABBREVIATIONS SHOWN ARE FOR GENERAL USE. DISREGARD THOSE WHICH DO NOT APPEAR ON THE PLANS.

- FLUORESCENT OR LED LUMINAIRE - SEE SCHEDULE
- EMERGENCY OR NIGHT LIGHT
- STRIP FLUORESCENT OR LED LUMINAIRE - SEE SCHEDULE
- LUMINAIRE - RECESSED - SEE SCHEDULE
- RECESSED WALL WASHER
- LUMINAIRE - SURFACE MOUNTED - SEE SCHEDULE
- LUMINAIRE - POLE OR POST MOUNTED - SEE SCHEDULE
- LUMINAIRE - WALL MOUNTED SEE SCHEDULE
- BOLLARD OR PATH LIGHT - SEE SCHEDULE
- EXIT LIGHT - DIRECTIONAL ARROWS AS INDICATED - SEE SCHEDULE
- TRACK LIGHTING - SEE SCHEDULE
- EMERGENCY LIGHT
- DIGITAL DUAL TECHNOLOGY OCC SENSOR
- LIGHTING CONTROL OCCUPANCY SENSOR CORNER MOUNTED
- DRC DIMMER ROOM CONTROLLER
- PC PLUG LOAD CONTROLLER
- RC ROOM LIGHTING CONTROLLER
- LCP LIGHTING CONTROL PANEL
- DL DIGITAL DAYLIGHT SENSOR
- $ SINGLE POLE SWITCH ★★
- $a SINGLE POLE SWITCH, ★★ a = CIRCUIT CONTROLLED
- $3 THREE WAY SWITCH★★
- $4 FOUR WAY SWITCH★★
- $M MANUAL MOTOR STARTER
- $K KEY OPERATED SWITCH ★★
- $D DIGITAL ON/OFF SWITCH ★★
- $D DIGITAL DIMMER SWITCH ★★
- $DSM DIGITAL MULTI SCENE LIGHTING SWITCH ★★
- $DS DIGITAL DUAL TECHNOLOGY WALL OCC. SENSOR★★
- WALL OCCUPANCY SENSOR ★★
- 2 DOUBLE SWITCHED WALL OCCUPANCY SENSOR ★★
- DIMMING DUAL TECHNOLOGY WALL SWITCH OCCUPANCY SENSOR ★★
- 2 2-BUTTON DIMMING DUAL TECHNOLOGY WALL SWITCH OCCUPANCY SENSOR ★★
- SECURITY DOOR CONTACTS
- MD SECURITY MOTION DETECTOR
- SC CCTV CAMERA
- KP SECURITY SYSTEM KEYPAD
- DOOR BELL PUSHBUTTON
- CH DOOR CHIME WITH LED
- RECEPTACLE - DUPLEX ★
- DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER - FIELD VERIFY HEIGHT
- GFCI CONVENIENCE RECEPTACLE - DUPLEX★
- GFCI CONVENIENCE DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER - FIELD VERIFY HEIGHT
- RECEPTACLE DOUBLE DUPLEX★
- HALF SWITCHED DUPLEX RECEPTACLE ★
- SINGLE RECEPTACLE★
- DUPLEX RECEPTACLE - CEILING MOUNTED
- HC LETTER INDICATES DUPLEX HALF CONTROLLED RECEPTACLE ★
- C LETTER INDICATES DUPLEX FULLY CONTROLLED RECEPTACLE ★
- FLOOR MOUNTED DUPLEX RECEPTACLE
- FLOOR MOUNTED BOX
- POWER OUTLET - SEE PLANS FOR NEMA TYPE★
- POWER POLE
- WALL TELEPHONE OUTLET ★★
- [#] VOICE/DATA WALL OUTLET ★
- [#] VOICE/DATA OUTLET MOUNTED ABOVE COUNTER - FIELD VERIFY HEIGHT
- [#] SURFACE MOUNTED VOICE/DATA WALL OUTLET ★
- [#] SURFACE MOUNTED VOICE/DATA OUTLET MOUNTED ABOVE COUNTER - FIELD VERIFY HEIGHT
- WIRELESS ACCESS POINT (WAP) - CEILING MOUNTED
- WIRELESS ACCESS POINT (WAP) - WALL MOUNTED - FIELD VERIFY HEIGHT
- [#] VOICE/DATA OUTLET - FLOOR MOUNTED
- TV OUTLET ★
- [#] VOICE/DATA OUTLET - CEILING MOUNTED
- S INTERIOR SPEAKERS CEILING MOUNTED
- S INTERIOR SPEAKERS WALL MOUNTED
- C CLOCK +8'-0" AFF U.O.N. VERIFY BEFORE INSTALLATION
- PANELBOARD - FLUSH MOUNTED
- EQUIPMENT PANEL - FLUSH MOUNTED
- PANELBOARD - SURFACE MOUNTED
- EQUIPMENT PANEL - SURFACE MOUNTED
- M METER W/ CURRENT TRANSFORMER
- J JUNCTION BOX - CEILING OR WALL MOUNTED, SIZE PER CODE, TAPE AND TAG WIRES
- MOTOR CONNECTION
- NON-FUSED DISCONNECT SWITCH
- FUSED DISCONNECT SWITCH; FUSED WITH DUAL-ELEMENT FUSES SIZED PER EQUIPMENT MFGR'S NAMEPLATE DATA
- COMBINATION STARTER/FUSED DISCONNECT SWITCH; FUSED DISCONNECT SWITCH ELEMENT FUSES SIZED PER EQUIPMENT MFGRS NAMEPLATE DATA
- MAGNETIC STARTER - NEMA SIZE INDICATED NEMA 3R ENCLOSURE UNLESS OTHERWISE SPECIFIED
- CIRCUIT BREAKER
- GROUND ROD WITH GROUNDWELL BOX
- GROUND ELECTRODE
- NORMALLY OPEN CONTACT
- NORMALLY CLOSED CONTACT
- TRANSFORMER - SEE SINGLE LINE FOR SIZE
- PULLBOX
- ERMS
- FLEX CONDUIT WITH CONNECTION
- CONDUIT - UP
- CONDUIT - DOWN
- E CONDUIT EMERGENCY SYSTEM
- LV LOW VOLTAGE WIRING
- SURFACE METAL OR NON-METALLIC RACEWAY
- CONDUIT - CONCEALED IN WALLS OR CEILING
- CONDUIT - EXISTING
- CONDUIT - BELOW SLAB OR UNDERGROUND: 3/4"MIN.
- CAPPED OR STUB-OUT CONDUIT
- CONDUIT CONTINUATION
- #10 CONDUIT - HOME RUN TO PANEL, TERMINAL CABINET, ETC. RUNS MARKED WITH CROSSHATCHES INDICATE NUMBER OF #12 AWG WIRES WHEN MORE THAN TWO. SIZE CONDUIT ACCORDING TO SPECIFICATIONS AND APPLICABLE CODE. CROSS HATCHES WITH NUMBER ADJACENT INDICATES WIRE SIZE OTHER THAN #12 AWG.
- 2 SHEET NOTE REFERENCE SYMBOL; SEE ASSOCIATED NOTE ON SAME SHEET
- 3 SCHEDULE SYMBOL; SEE ASSOCIATED NOTE ON SAME SHEET
- X DETAIL NOTE REFERENCE SYMBOL SEE ASSOCIATED NOTE ON SAME DETAIL
- FXXX FEEDER DESIGNATION; SEE ASSOCIATED NOTE ON SAME DETAIL
- X / X XX DETAIL NUMBER / DETAIL OR SECTION REFERENCE / SHEET NUMBER
- X / X INDICATES QUANTITY OF TELEPHONE OUTLETS
- X / X INDICATES QUANTITY OF DATA OUTLETS

ABBREVIATIONS

A	AMPERE	GFCI	GROUND FAULT	NTS	NOT TO SCALE		
AFF	ABOVE FINISHED FLOOR	GFI	INTERRUPTING	OAH	OVERALL HEIGHT		
ALUM/AL	ALUMINUM	GND, G	GROUND	OC	ON CENTER		
ARCH	ARCHITECT	GRS	GALVANIZED RIGID STEEL	OH	OVERHEAD		
AWG	AMERICAN WIRE GAUGE	HT	HEIGHT	OFCI	OWNER FURNACED CONTRACTOR INSTALLED		
BKR	BREAKER	IC	INTERCOM	PA	PUBLIC ADDRESS		
C	CONDUIT	IDF	INTERMEDIATE DISTRIBUTION FRAME	PB	PULL BOX		
CATV	CABLE TV	INCAND	INCANDESCENT	PF	POWER FACTOR		
CB	CIRCUIT BREAKER	JB	JUNCTION BOX	PH	PHASE		
CCTV	CLOSED CIRCUIT TV	KV	KILOVOLT	PIR	PASSIVE INFRARED		
CKT	CIRCUIT	KVA	KILOVOLT AMPERES	PNL	PANEL		
CL	CENTER LINE	KW	KILOWATT	PV	PHOTOVOLTAIC		
CLG	CEILING	LCP	LIGHTING CONTROL PANEL	PVC	POLYVINYL CHLORIDE		
C.O.	CONDUIT ONLY	LTG	LIGHTING	PWR	POWER		
CTR	CENTER	LV	LOW VOLTAGE	(R)	RELOCATE		
D	DIMMER	KCM	THOUSAND CIRCULAR MILS	(RPP)	REMOVABLE POLE		
DIM	DIMENSION	M.B.	MAIN CIRCUIT BREAKER	RECPT'S	RECEPTACLES		
DIST	DISTRIBUTION	MCA	MINIMUM CIRCUIT AMPS	REQD	REQUIRED		
(E)	EXISTING	MDF	MAIN DISTRIBUTION FRAME	REQMT'S	REQUIREMENT(S)		
EC	ELECTRICAL CONTRACTOR	MECH	MECHANICAL	SHT	SHEET		
(EL)	EVENING LIGHT	MH	METAL HALIDE	SLD	SINGLE LINE DIAGRAM		
EM	EMERGENCY	MLO	MAIN LUGS ONLY	STC	SYSTEMS TERMINATION CABINET		
EMT	ELECTRICAL METALLIC TUBING	MPOE	MAIN POINT OF ENTRANCE	SW	SWITCH		
ERMS	ENERGY REDUCTION MAINTENANCE SWITCH	MTD	MOUNTED	SWBD	SWITCHBOARD		
EQUIP	EQUIPMENT	MTG	MOUNTING	TTB	TELEPHONE TERMINAL BACKBOARD		
EV	ELECTRICAL VEHICLE	MOCP	MAXIMUM OVER CURRENT PROTECTION	TYP	TYPICAL		
FA	FIRE ALARM	(N)	NEW	UON	UNLESS OTHERWISE NOTED		
FACP	FIRE ALARM CONTROL PANEL	NIC	NOT IN CONTRACT	UG	UNDERGROUND		
FC	FOOT CANDLE	NIEC	NOT IN ELECTRICAL CONTRACT	V	VOLT		
FIN	FINISH	(NL)	NIGHT LIGHT	VD	VOLTAGE DROP		
FL	FLOOR	NO.	NUMBER	W	WATT		
FLA	FULL LOAD AMPS	NOM	NOMINAL	W/	WITH		
FLUOR	FLUORESCENT			WP	WEATHERPROOF		
(F)	FUTURE			XFMR	TRANSFORMER		
GC	GENERAL CONTRACTOR						

FIRE ALARM

NOTE: SEE FIRE ALARM DRAWINGS FOR QUANTITIES AND MOUNTING HEIGHTS.

- P MANUAL PULL STATION
- STROBE ONLY
- SPEAKER ONLY
- M MINI HORN
- SPEAKER/STROBE
- CHIME/STROBE
- HEAT DETECTOR
- SMOKE DETECTOR
- CO CARBON MONOXIDE ALARM
- DUCT SMOKE DETECTOR
- TAMPER SWITCH
- FLOW SWITCH
- POST INDICATING VALVE
- FIRE SMOKE DAMPER
- BELL (GONG)
- FCP FIRE ALARM CONTROL PANEL
- DH DOOR HOLDER
- APS AUXILIARY POWER SUPPLY
- FSA FIRE SYSTEM ANNUNCIATOR
- FTR FIRE ALARM TRANSPONDER OR TRANSMITTER
- ESR ELEVATOR STATUS/RECALL
- FAC FIRE ALARM COMMUNICATOR
- ANN REMOTE ANNUNCIATORS
- EOL END OF LINE

★ +15" A.F.F. MIN. TO BOTTOM OF BOX, U.O.N.
★★ +48" A.F.F. MAX. TO TOP OF BOX, U.O.N.

[#] NUMBER IN BRACKETS DENOTES NUMBER OF CABLE DROPS WHEN MORE THAN (2).

EQUIPMENT ANCHORAGE

M/E/P COMPONENT ANCHORAGE NOTES:

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110 / 220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED IN THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS.

A. COMPONENTS WEIGHTING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.

B. COMPONENTS WEIGHTING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT OF THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

MEP DISTRIBUTION SYSTEM BRACING NOTE FOR PIPING, DUCTWORK, AND ELECTRICAL CONDUIT

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7 SECTION 13.3 AS DEFINED IN ASCE 7 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8 AND 2022 CBC SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON PRE-APPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND THE BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP ☐ MD ☐ PP ☐ E ■ - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES & DETAILS.

MP ☐ MD ☐ PP ☐ E ■ - OPTION 2: SHALL COMPLY WITH HCAI (OSHPD) PRE-APPROVAL (OPM #) #_____, AS INCLUDED IN THESE DRAWINGS WITH PROJECT-SPECIFIC NOTES AND DETAILS.

APPLICABLE CODES & STANDARDS

CODES:

1. 2025 CALIFORNIA ADMINISTRATIVE CODE C.A.C., PART 1, TITLE 24, C.C.R.
2. 2022 CALIFORNIA BUILDING CODE (CBC) C.C.R., TITLE 24, VOL. 1 & 2 BASED ON THE 2021 INTERNATIONAL BUILDING CODE (IBC) WITH CALIFORNIA AMENDMENTS.
3. 2022 CALIFORNIA RESIDENTIAL CODE C.C.R., TITLE 24, PART 2.5 BASED ON THE 2021 INTERNATIONAL RESIDENTIAL CODE WITH CALIFORNIA AMENDMENTS.
4. 2022 CALIFORNIA ELECTRICAL CODE (CEC) C.C.R., TITLE 24, PART 3 BASED ON THE 2020 NATIONAL ELECTRICAL CODE (NEC) WITH CALIFORNIA AMENDMENTS.
5. 2022 CALIFORNIA MECHANICAL CODE (CMC) C.C.R., TITLE 24, PART 4 BASED ON THE 2021 UNIFORM MECHANICAL CODE (UMC) WITH CALIFORNIA AMENDMENTS.
6. 2022 CALIFORNIA PLUMBING CODE (CPC) C.C.R., TITLE 24, PART 5 BASED ON THE 2021 UNIFORM PLUMBING CODE (UPC) WITH CALIFORNIA AMENDMENTS.
7. 2022 CALIFORNIA ENERGY CODE C.C.R., TITLE 24, PART 6.
8. 2022 CALIFORNIA FIRE CODE (CFC) C.C.R., TITLE 24, PART 9 BASED ON THE 2021 INTERNATIONAL FIRE CODE (IFC) WITH CALIFORNIA AMENDMENTS.
9. 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE C.C.R., TITLE 24, PART 11.
10. 2022 CALIFORNIA REFERENCED STANDARDS CODE C.C.R., TITLE 24, PART 12.
11. TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.
12. NATIONAL FIRE ALARM CODE (NFPA 72) 2022.

STANDARDS:

1. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
2. ELECTRONICS INDUSTRIES ASSOCIATION (EIA)
3. INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE)
4. NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)
5. NATIONAL ELECTRICAL TESTING ASSOCIATION (NETA)
6. UNDERWRITER LABORATORIES (UL)
7. CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH ACT STANDARDS (CAL/OSHA)

SHEET INDEX

E001-1	SYMBOLS, ABBREVIATIONS, LIGHT FIXTURE SCHEDULE, CODES, STANDARDS & SHEET INDEX.
E002-1	CALIFORNIA ENERGY COMPLIANCE TITLE 24 - INDOOR.
E003-1	CALIFORNIA ENERGY COMPLIANCE TITLE 24 - OUTDOOR.
E101-1	ELECTRICAL SINGLE LINE DIAGRAM, DETAILS
E102-1	PANELBOARD SCHEDULES.
E201-1	OVERALL SITE PLAN.
E202-1	ENLARGED SITE PLAN
E301-1	DEMOLITION SITE PLAN.
E401-1	BUILDING P - POWER & LIGHTING PLAN.
E601-1	ELECTRICAL DETAILS.
E602-1	ELECTRICAL DETAILS.
E603-1	ELECTRICAL DETAILS.
FA001-1	SYMBOLS & ABBREVIATIONS, EQUIPMENT LIST, OPERATIONAL MATRIX, CALCS, DETAILS & NOTES.
FA101-1	FIRE ALARM RISER DIAGRAM, BATTERY & VOLTAGE DROP CALCULATIONS.
FA201-1	FIRE ALARM SITE PLAN.
FA401-1	BUILDING P - FIRE ALARM PLAN.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123309 INC: 1
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 9/30/2025

AGD ARCHITECTURE | DESIGN
ANDREW GOODWIN DESIGNS
1238 MONTEREY STREET
SAN LUIS OBISPO, CA 93422
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AURUM CONSULTING ENGINEERS MONTEREY BAY, INC.
Project No. 24-160.00
404 W. Franklin St. • Suite 100 • Monterey, CA 93940
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REVISIONS

REV #	REV DATE	REV DESCRIPTION

SEAL

REGISTERED PROFESSIONAL ENGINEER — NAJIB ANWARY — No. E21043 EXP. 3/31/27 — ELECTRICAL

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
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.	
Project Name: Tranquility HS Aquatic Center Modernization	**Report Page:** (Page 1 of 7)
Project Address:	**Date Prepared:** 2025-04-08T19:15:19-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Tranquillity	04	Total Conditioned Floor Area (ft²)	802
02	Climate Zone	13	05	Total Unconditioned Floor Area (ft²)	0
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	0
● School or Classroom					

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	802	N/A	0
☐ New Lighting System - Parking Garage	N/A	0	N/A	0
Total Area of Work (ft²)	802			

STATE OF CALIFORNIA
Indoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Tranquility HS Aquatic Center Modernization	**Report Page:** (Page 2 of 7)
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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 Allowed** (Watts)	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		360.9			=	360.9	≥ 360		=	360	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.

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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: 281219-0425-0005 Report Generated: 2025-04-08 16:15:22

STATE OF CALIFORNIA
Indoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Tranquility HS Aquatic Center Modernization	**Report Page:** (Page 3 of 7)
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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	7"W x 4'L suspended LED light fixture	No	NA	45	Mfr. Spec	4	No	180	☐	☐
AE	7"W x 4'L suspended LED light fixture with EM	No	NA	45	Mfr. Spec	4	No	180	☐	☐
							Total Designed Watts: CONDITIONED SPACES	360		

[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.

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	
		Pass	Fail
Mandatory Demand Response 110.12(c)	Shut-off controls 130.1(c) / 160.5(b)4C	☐	☐
NA < 4,000W subject to multilevel	See Area/Space Level Controls		

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STATE OF CALIFORNIA
Indoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
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H. INDOOR LIGHTING CONTROLS (Not including PAFs)

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/Sky lit 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
Pool Equipment Building	Storage - MF common areas	Readily Accessible	Dimmer	Partial On 130.1(c)/ 160.5(b)4C	NA: Not daylit zone	NA: Not daylit zone	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
Pool Equipment Building	Storage - MF common areas	0.45	802	360.9	No	No
		TOTALS:	802	360.9	See Tables J, or P for detail	

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

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STATE OF CALIFORNIA
Indoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Tranquility HS Aquatic Center Modernization	**Report Page:** (Page 5 of 7)
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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.

Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: 281219-0425-0005 Report Generated: 2025-04-08 16:15:22

STATE OF CALIFORNIA
Indoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Tranquility HS Aquatic Center Modernization	**Report Page:** (Page 6 of 7)
	Date Prepared: 2025-04-08T19:15:19-04:00

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

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Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	

Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: 281219-0425-0005 Report Generated: 2025-04-08 16:15:22

STATE OF CALIFORNIA
Indoor Lighting CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-E
Project Name: Tranquility HS Aquatic Center Modernization	**Report Page:** (Page 7 of 7)
Project Address: 6052 JUANCHE AVE, TRANQUILLITY, CA 93668	**Date Prepared:** 2025-04-08T19:15:19-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Najib Anwary	Documentation Author Signature:
Company: Aurum Consulting Engineers, San Jose	Signature Date: 04/24/25
Address: 1798 Technology Drive Suite 242	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: San Jose, CA 95110	Phone: (408) 564-7925

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: 04/24/25
Address: 1798 Technology Drive Suite 242	License: E21043 Exp: 03/31/27
City/State/Zip: San Jose, CA 95110	Phone: (408) 564-7925

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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: 281219-0425-0005 Report Generated: 2025-04-08 16:15:22

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123309 INC: 1
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 9/30/2025

AGD ARCHITECTURE | DESIGN
ANDREW GOODWIN DESIGNS
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SAN LUIS OBISPO, CA 93422
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AURUM CONSULTING ENGINEERS MONTEREY BAY, INC.
Project No. 24-160.00
404 W. Franklin St.● Suite 100 ● Monterey, CA 93940
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REVISIONS

REV #	REV DATE	REV DESCRIPTION

SEAL

REGISTERED PROFESSIONAL ENGINEER NAJIB ANWARY No. E21043 EXP. 3/31/27 ELECTRICAL STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE
CALIFORNIA ENERGY COMPLIANCE TITLE 24 - INDOOR

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: RT
PROJECT MANAGER: TP
JOB NUMBER: 791

SHEET NUMBER
E002-1

PLOT DATE: 3/21/2025 3:26:20 PM

CERTIFICATE OF COMPLIANCE	NRCC-LTO-E
This document is used to demonstrate compliance with requirements in 110.9, 130.0, 130.2, 140.7, and 141.0(b)2L for outdoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e)6, 180.1(a) and 180.2(b)4Bv for outdoor lighting scopes using the prescriptive path for multifamily and mixed-use occupancies. Multifamily includes dormitory and senior living facilities.	
Project Name: Tranquility HS Aquatic Center Modernization	**Report Page:** (Page 1 of 8)
Project Address:	**Date Prepared:** 2025-04-07T19:54:11-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Tranquillity	04	Total Illuminated Hardscape Area (ft²)	63376
02	Climate Zone	13			
03	Outdoor Lighting Zone per Title 24 Part 1 10.114 or as designated by Authority Having Jurisdiction (AHJ):				
☐	LZ-0: Very Low - Undeveloped Parkland	☒ LZ-2: Moderate - Urban Clusters	☐ LZ-4: High - Must be reviewed by CA Energy Commission for Approval		
☐	LZ-1: Low - Rural Areas	☐ LZ-3: Moderately High - Urban Areas			
05	Occupancy Types within Project				
● School or Classroom					

B. PROJECT SCOPE

This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv for alterations.

My Project Consists of:

01	02		
☒ New Lighting System	Must Comply with Allowances from 140.7 / 170.2(e)6		
☐ Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)? ○ Yes ○ No		
03	04	05	
% of Existing Luminaires Being Altered[1]	Sum Total of Luminaires Being Added or Altered	Calculation Method	
☐ < 10% ☐ >= 10% and < 50% ☐ >= 50%			

Please proceed to Table F. Outdoor Lighting Fixture Schedule to define the project's luminaires.

[1] *FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.*

CERTIFICATE OF COMPLIANCE	NRCC-LTO-E
Project Name: Tranquility HS Aquatic Center Modernization	**Report Page:** (Page 2 of 8)
	Date Prepared: 2025-04-07T19:54:11-04:00

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(d)1 / 170.2(e)6 (See Table I)	+	Per Application 140.7(d)2 / 170.2(e)6 (See Table J)	+	Sales Frontage 140.7(d)2 (See Table K)	+	Ornamental 140.7(d)2 / 170.2(e)6 (See Table L)	+	Per Specific Area 140.7(d)2 / 170.2(e)6 (See Table M)	OR	Existing Power Allowance 141.0(b)2L / 180.2(b)4Bv (See Table N)	=		≥	**Total Allowed** (Watts)	**07 must be >= 08**
1,574.99	+	---	+	---	+	---	+	---	OR	---	=	1,574.99	≥	1,547	COMPLIES
Shielding Compliance (See Table G for Details)															COMPLIES
Controls Compliance (See Table H for Details)															COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

CERTIFICATE OF COMPLIANCE	NRCC-LTO-E
Project Name: Tranquility HS Aquatic Center Modernization	**Report Page:** (Page 3 of 8)
	Date Prepared: 2025-04-07T19:54:11-04:00

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per 141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

Designed Wattage:

01	02		03	04	05	06	07	08	09	10
Name or Item Tag	Complete Luminaire Description		Watts per luminaire[1, 2]	How is Wattage determined	Total Number Luminaires [2]	Luminaire Status[3]	Excluded per 140.7(a) / 170.2(e)6A	Design Watts	Cutoff Req. > 6,200 initial lumen output 130.2(b) / 160.5(c)[4]	Field Inspector: Pass / Fail
XA	Pole mounted LED light fixture head	☐ Linear	70	Mfr. Spec	11	New	☐	770	Provided	☐ ☐
XAE	Pole mounted LED light fixture head except with EM	☐ Linear	70	Mfr. Spec	7	New	☐	490	Provided	☐ ☐
XC	16" square X 6" deep surface mount LED fixture	☐ Linear	20	Mfr. Spec	2	New	☐	40	NA: < 6200 lumens	☐ ☐
XCE	16" square X 6" deep surface mount LED fixture	☐ Linear	20	Mfr. Spec	2	New	☐	40	NA: < 6200 lumens	☐ ☐
XB	12"L x 6"D x 8"W LED wall sconce	☐ Linear	23	Mfr. Spec	7	New	☐	161	NA: < 6200 lumens	☐ ☐
XBE	12"L x 6"D x 8"W LED wall sconce except EM	☐ Linear	23	Mfr. Spec	2	New	☐	46	NA: < 6200 lumens	☐ ☐
							Total Design Watts:	1547		

* 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.*

CERTIFICATE OF COMPLIANCE	NRCC-LTO-E
Project Name: Tranquility HS Aquatic Center Modernization	**Report Page:** (Page 4 of 8)
	Date Prepared: 2025-04-07T19:54:11-04:00

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per 141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

Designed Wattage:

01	02	03	04	05	06	07	08	09	10

[4] *Compliance with mandatory shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by 130.2(b)/ 160.5(c)*

G. SHIELDING REQUIREMENTS (BUG)

This table includes fixtures of >=6,200 initial lumens indicated on Table F as needing to comply with Shielding Requirements. Maximum lumens can be found in Title 24, Part 11, Section 5.106.8.

01	02	03	04	05	06	07	08	09	10	11	12
		Backlight Rating[2]			Uplight Rating[2]			Glare Rating (Lumens)[2]			Field Inspector
Name or Item Tag	Complete Luminaire Description	Mounting Height[1]	Max Allowable Backlight Rating[3]	Backlight Rating Per Design	Lighting type	Max Allowable Uplight Rating[3]	Uplight Rating Per Design	Mounting Height[1]	Max Allowable Glare Rating[3]	Glare Rating Per Design	Pass / Fail
XA	Pole mounted LED light fixture head	2 MH from property line	No Limit	B1	Area Lighting	U0	U0	> 2 MH from property line	G2	G2	☐ ☐
XAE	Pole mounted LED light fixture head except with EM	2 MH from property line	No Limit	B1	Area Lighting	U0	U0	> 2 MH from property line	G2	G2	☐ ☐

[1] *FOOTNOTES: Mounting Height is labeled MH in this table.*
[2] *Authority Having Jurisdiction may ask for Luminaire cut sheets or other documentation to confirm luminaire type, uplight ratings and glare ratings used for compliance per 130.2(b)/ 160.5(c)*
[3] *BUG ratings with a lower number than the 'Max Allowable' are compliant. Ex. If Max Allowable is Bug Rating B4, then B0, B1, B2 and B3 are all compliant.*

CERTIFICATE OF COMPLIANCE	NRCC-LTO-E
Project Name: Tranquility HS Aquatic Center Modernization	**Report Page:** (Page 5 of 8)
	Date Prepared: 2025-04-07T19:54:11-04:00

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
General Hardscape: "XA"	Astronomical Timer	Provided	NA: Athletic Fields/Playgrounds Lighting	☐	☐
General Hardscape: "XAE"	Astronomical Timer	Provided	NA: Athletic Fields/Playgrounds Lighting	☐	☐
General Hardscape: "XC"	Astronomical Timer	Provided	NA: Each Luminaire <= 40 Watts	☐	☐
General Hardscape: "XB"	Astronomical Timer	Provided	NA: Each Luminaire <= 40 Watts	☐	☐
General Hardscape: "XBE"	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.*

CERTIFICATE OF COMPLIANCE	NRCC-LTO-E
Project Name: Tranquility HS Aquatic Center Modernization	**Report Page:** (Page 6 of 8)
	Date Prepared: 2025-04-07T19:54:11-04:00

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)	
General Hardscape	63376	0.019	1204.14	1139	0.15	170.85	1374.99
					Initial Wattage Allowance for Entire Site (Watts):		200
					Instances of Initial Wattage Allowance (LZ 0 only)[1]		
					Total General Hardscape Allowance (Watts):		1574.99

J. LIGHTING ALLOWANCE: PER APPLICATION

This section does not apply to this project.

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

CERTIFICATE OF COMPLIANCE	NRCC-LTO-E
Project Name: Tranquility HS Aquatic Center Modernization	**Report Page:** (Page 7 of 8)
	Date Prepared: 2025-04-07T19:54:11-04:00

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This section does not apply to this project.

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This section does not apply to this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

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Form/Title
NRCI-LTO-E - Must be submitted for all buildings

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

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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.	General Hardscape: "XA"; General Hardscape: "XAE"; General Hardscape: "XC"; General Hardscape: "XB"; General Hardscape: "XBE"

CERTIFICATE OF COMPLIANCE	NRCC-LTO-E
Project Name: Tranquility HS Aquatic Center Modernization	**Report Page:** (Page 8 of 8)
Project Address: 6052 JUANCHE AVE, TRANQUILLITY, CA 93668	**Date Prepared:** 2025-04-07T19:54:11-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Najib Anwary	Documentation Author Signature:
Company: Aurum Consulting Engineers, San Jose	Signature Date: 04/24/25
Address: 1798 Technology Drive Suite 242	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: San Jose, CA 95110	Phone: (408) 564-7925

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Responsible Designer Name:	Responsible Designer Signature:
Company:	Date Signed: 04/24/25
Address: 1798 Technology Drive Suite 242	License: E21043 Exp: 03/31/27
City/State/Zip: San Jose, CA 95110	Phone: (408) 564-7925

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123309 INC: 1
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 9/30/2025

AGD ARCHITECTURE | DESIGN
ANDREW GOODWIN DESIGNS
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AURUM CONSULTING ENGINEERS MONTEREY BAY, INC.
Project No. 24-160.00
404 W. Franklin St. ● Suite 100 ● Monterey, CA 93940
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REVISIONS

REV #	REV DATE	REV DESCRIPTION

SEAL

REGISTERED PROFESSIONAL ENGINEER NAJIB ANWARY No. E21043 EXP. 3/31/27 ELECTRICAL STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

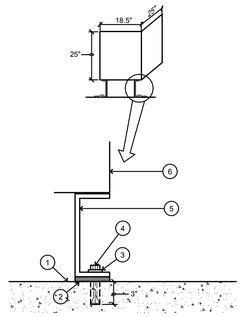
SHEET TITLE
CALIFORNIA ENERGY COMPLIANCE TITLE 24 - OUTDOOR

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: RT
PROJECT MANAGER: TP
JOB NUMBER: 791

SHEET NUMBER
E003-1

PLOT DATE: 3/21/2025 3:26:20 PM



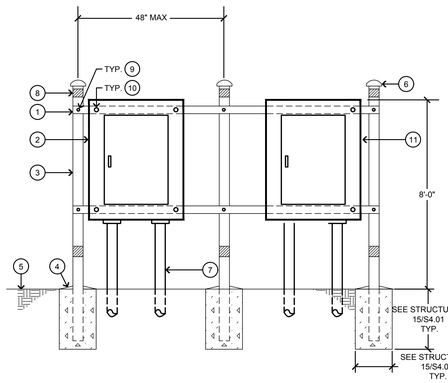
DETAIL NOTES

1. CONCRETE FLOOR.
2. KORFUND ISOLATION PAD
3. LOCK WASHER
4. ½" DIA. STAINLESS STEEL HILTI KB-TZ2 ANCHOR W/ 3" NOMINAL EMBEDMENT, TYP. AT EA. MOUNTING HOLE (4 PLACES). INSTALL IN CONFORMANCE WITH ICC ESR-4266. SEE SHEET S1.03-1 FOR REQUIRED INSTALLATION TORQUE.
5. TRANSFORMER MOUNTING CHANNEL
6. TRANSFORMER HOUSING

MAX WEIGHT. OF TRANSFORMER = 525 LBS.

7 TRANSFORMER "TPH" MOUNTING DETAIL

NO SCALE

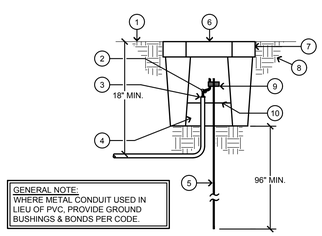


DETAIL NOTES:

1. UNISTRUT P1000 (SHALL BE SOLID TYPE, NOT SLOTTED), (TYP. 2 PLACES) FILE AND SMOOTH ALL SHARP EDGES. MEMBERS SHALL HAVE A HOT DIP GALVANIZED FINISH.
2. DIST. PANEL. "DH". MAX WEIGHT 700LBS.
3. GALVANIZED STEEL PIPE COLUMN PER 15/S4.01 (TYP. 3).
4. CONC. BASE, SLOPE AWAY FROM PIPE (TYP.)
5. FINISHED GRADE
6. GALVANIZED THREADED STEEL CAP (TYP.)
7. CONDUITS; SEE PLANS FOR QUANTITIES (TYP.)
8. 3" REFLECTOR TAPE TOP & BOTTOM (TYP.)
9. SEE 15/S4.01 FOR CONNECTION OF UNISTRUT TO STEEL PIPE.
10. 3/8"-16 x 1 1/8"L UNISTRUT STUD NUTS WITH FLAT WASHER & HEX NUT (TYP. (4) PANEL). ALL FASTENING HARDWARE SHALL HAVE A HOT DIP GALVANIZED FINISH.
11. DIST. PANEL "DL". MAX WEIGHT 700LBS.

6 PANELS "DH" & "DL" MOUNTING DETAIL

NO SCALE



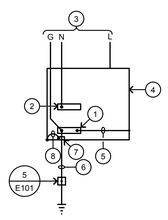
GENERAL NOTE:
WHERE METAL CONDUIT USED IN LIEU OF PVC, PROVIDE GROUND BUSHINGS & BONDS PER CODE.

DETAIL NOTES:

1. FINISHED GRADE.
2. GROUND CONDUCTOR. (SEE SINGLE LINE DIAGRAM ON 1/E101 FOR GROUND CONDUCTOR SIZES).
3. SEAL CONDUIT WATERTIGHT.
4. GROUT BOTTOM MINIMUM 3".
5. ¾" x 10'-0" COPPER CLAD GROUND ROD.
6. LID LABELED "GROUND ROD".
7. CHRISTY "F8" GROUND ROD BOX.
8. UNDISTURBED EARTH.
9. GROUND CLAMP.
10. COAT ALL INSIDE SURFACES WITH SEALANT.

5 GROUND ROD BOX DETAIL

NO SCALE



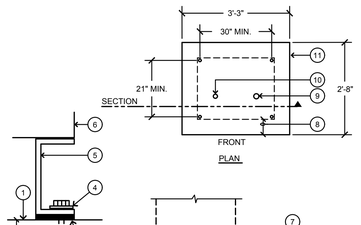
DETAIL NOTES:

1. GROUND BUS.
2. NEUTRAL BUS.
3. TO TRANSFORMER OR MAIN SWITCHBOARD.
4. DISTRIBUTION PANEL.
5. EQUIPMENT BONDING JUMPER SUPPLIED WITH PANEL INSTALLED BY CONTRACTOR.
6. 1" SCHEDULE 80 PVC CONDUIT [WITH 1 (#4) (#2) (#1/0) (#2/0) (#3/0) GROUNDING ELECTRODE CONDUCTOR] [SEE SINGLE LINE DIAGRAM1/E1.1 FOR GROUNDING ELECTRODE CONDUCTOR REQUIREMENTS].
7. BARE COPPER GROUND PER CEC 250-66.
8. GROUNDING BUSHING.

GENERAL NOTE:
IF AVAILABLE ON THE PREMISES AT EACH BUILDING OR STRUCTURE SERVED EACH OF THE FOLLOWING SHALL BE BONDED TOGETHER TO FORM THE GROUNDING ELECTRODE SYSTEM:
a. METAL COLD WATER PIPE,
b. METAL FRAME OF BUILDING,
c. GROUND RING,
d. OTHER ELECTRODES PER CEC 250.50

4 DISTRIBUTION PANEL GROUNDING

NO SCALE

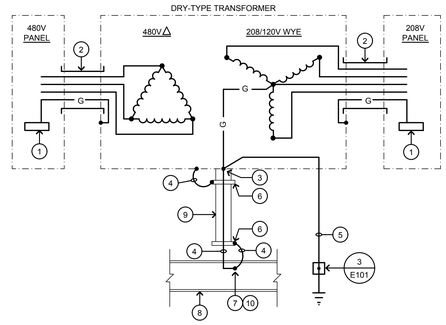


DETAIL NOTES:

1. CONCRETE PAD.
2. 1/2" DIA. STAINLESS STEEL HILTI KB-TZ2 ANCHOR W/ 3" NOMINAL EMBEDMENT, TYP. AT EA. MOUNTING HOLE (4 PLACES). MAINTAIN MINIMUM 3" OF CONCRETE EDGE DISTANCE TO ANY CONCRETE EDGE. INSTALL IN CONFORMANCE WITH ICC ESR-4266. SEE SHEET S1.03-1 FOR REQUIRED INSTALLATION TORQUE.
3. KORFUND ISOLATION PAD.
4. LOCK WASHER.
5. TRANSFORMER MOUNTING CHANNEL.
6. TRANSFORMER HOUSING. XFMR BY MFR MAX OPERATION WEIGHT = 1350 lbs. MAX HEIGHT TO CENTER OF GRAVITY = 28".
7. FINISHED GRADE.
8. EQUIPMENT CENTERED ON PAD.
9. SECONDARY CONDUIT.
10. PRIMARY CONDUIT.

3 DRY TYPE XFMR "TDH" MOUNTING DETAIL

NO SCALE

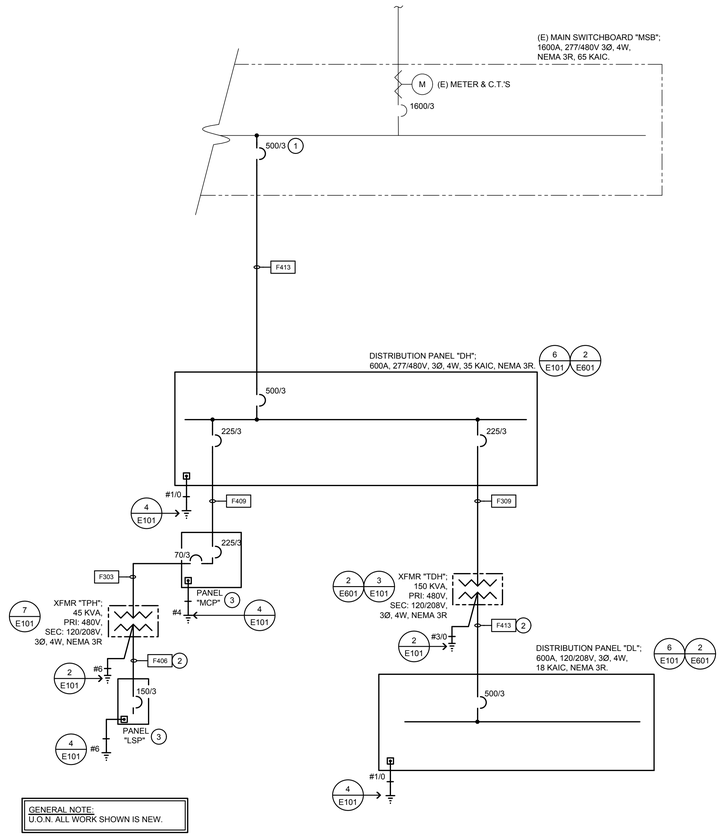


DETAIL NOTES:

1. PANEL OR SWITCHBOARD EQUIPMENT GROUND BUS.
2. CONDUIT WITH SEAL-TITE FLEX CONNECTION TO TRANSFORMER.
3. TRANSFORMER CASE BOND.
4. BARE COPPER GROUND PER CEC 250-66
5. 1" SCHEDULE 80 PVC CONDUIT WITH BARE COPPER GROUNDING ELECTRODE CONDUCTOR, SEE SINGLE LINE DIAGRAM 1/E101 FOR REQUIREMENTS.
6. GROUNDING BUSHINGS.
7. BOLTED OR EXOTHERMIC WELD CONNECTION.
8. BUILDING STEEL STRUCTURE FRAMING.
9. ELECTRICAL METALLIC TUBING (EMT).
10. METAL COLD WATER PIPE PER CEC 250.30 OR OTHER ELECTRODES PER 250.50 IF BUILDING STEEL OR WATER PIPE ARE NOT AVAILABLE.

2 DRY TYPE XFMR GROUNDING DETAIL

NO SCALE



GENERAL NOTE:
U.O.N. ALL WORK SHOWN IS NEW.

DETAIL NOTES:

1. NEW BREAKER IN EXISTING SWITCHBOARD. PROVIDE & INSTALL ALL REQUIRED MOUNTING HARDWARE FOR NEW BREAKER.
2. SECONDARY SHALL NOT EXCEED 10' IN LENGTH.
3. PROVIDED BY POOL VENDOR. INSTALL BY ELECTRICAL CONTRACTOR.

SINGLE LINE DIAGRAM LEGEND

- (EXISTING)
- (NEW)
- (E) FLOOR/PAD MOUNTED EQUIPMENT
- (N) FLOOR/PAD MOUNTED EQUIPMENT

FEEDER SCHEDULE

DESIGNATION	AMPACITY	CONDUIT & CONDUCTORS SIZES
F303	70	1 1/4" C., 3 #4 & 1 #8 GND.
F309	225	2" C., 3 #4/0 & 1 #4 GND.
F406	150	2" C., 4 #1/0 & 1 #6 GND.
F409	225	2 1/2" C., 4 #4/0 & 1 #4 GND.
F413	500	(2) 3 1/2" C., EACH W/4 #350kcm & 1 #1/0 GND (PARALLEL).

1 ELECTRICAL SINGLE LINE DIAGRAM

NO SCALE

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DATE: 9/30/2025

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REVISIONS

REV # | REV DATE | REV DESCRIPTION

SEAL

REGISTERED PROFESSIONAL ENGINEER
NAJIB ANNABI
No. E21043
EXP. 3/31/27
ELECTRICAL
STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE
ELECTRICAL SINGLE LINE DIAGRAM, DETAILS

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: RT
PROJECT MANAGER: TP
JOB NUMBER: 791

SHEET NUMBER
E101-1

PLOT DATE: 3/21/2025 3:26:20 PM

PANELBOARD SCHEDULES

Voltage:	277/480V,3ø
Wire:	4W
Type:	NEMA 3R
Mains:	500/3 M.B.

1 2 DIST. PANEL "DH"

Bussing:	600A
Feed:	BOTTOM
Mounting:	SURFACE
A.I.C.	35,000

Load	A	B	C	Bkr	Ck	abc	Ck	Bkr	A	B	C	Load
PANEL "MCP"	30660				1		2					XFMR "TDH"
PANEL "MCP"		30660		225/3	3		4	225/3				XFMR "TDH"
PANEL "MCP"			30660		5		6					XFMR "TDH"
SPARE					7		8					SPARE
SPARE				100/3	9		10	100/3				SPARE
SPARE					11		12					SPARE
SPACE ONLY				-	13		14	-				SPACE ONLY
SPACE ONLY				-	15		16	-				SPACE ONLY
SPACE ONLY				-	17		18	-				SPACE ONLY
SPACE ONLY				-	19		20	-				SPACE ONLY
SPACE ONLY				-	21		22	-				SPACE ONLY
SPACE ONLY				-	23		24	-				SPACE ONLY
SPACE ONLY				-	25		26	-				SPACE ONLY
SPACE ONLY				-	27		28	-				SPACE ONLY
SPACE ONLY				-	29		30	-				SPACE ONLY
	30660	30660	30660						0	0	0	

1. SUBMITTAL SHALL MATCH EXACT BREAKER LOCATIONS SHOWN.
2. LABEL PANEL FOR SHORT CIRCUIT AMPS AVAILABLE PER CEC 110-24.
3. PROVIDE & INSTALL LOCK-ON DEVICE.

KVA Phase A	30.7
KVA Phase B	30.7
KVA Phase C	30.7

Total Connected Load KVA	92.0
Total Load Amperes	111

Voltage:	120/208V,3ø
Wire:	4W
Type:	NEMA 3R
Mains:	500/3 M.B.

1 2 DIST. PANEL "DL"

Bussing:	600A
Feed:	BOTTOM
Mounting:	SURFACE
A.I.C.	18,000

Load	A	B	C	Bkr	Ck	abc	Ck	Bkr	A	B	C	Load
SCOREBOARD				20/1	1		2					SPARE
SPARE					3		4	300/3				SPARE
SPARE				100/3	5		6					SPARE
SPARE					7		8					SPARE
SPARE					9		10	300/3				SPARE
SPARE				100/3	11		12					SPARE
SPARE					13		14	-				SPACE ONLY
SPACE ONLY				-	15		16	-				SPACE ONLY
SPACE ONLY				-	17		18	-				SPACE ONLY
SPACE ONLY				-	19		20	-				SPACE ONLY
SPACE ONLY				-	21		22	-				SPACE ONLY
SPACE ONLY				-	23		24	-				SPACE ONLY
SPACE ONLY				-	25		26	-				SPACE ONLY
SPACE ONLY				-	27		28	-				SPACE ONLY
SPACE ONLY				-	29		30	-				SPACE ONLY
	0	0	0						0	0	0	

1. SUBMITTAL SHALL MATCH EXACT BREAKER LOCATIONS SHOWN.
2. LABEL PANEL FOR SHORT CIRCUIT AMPS AVAILABLE PER CEC 110-24.
3. PROVIDE & INSTALL LOCK-ON DEVICE.

KVA Phase A	0.0
KVA Phase B	0.0
KVA Phase C	0.0

Total Connected Load KVA	0.0
Total Load Amperes	0

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AGD ARCHITECTURE | DESIGN

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SEAL

REGISTERED PROFESSIONAL ENGINEER
NAJIB ANNABY
No. E21043
EXP. 3/31/27
ELECTRICAL
STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

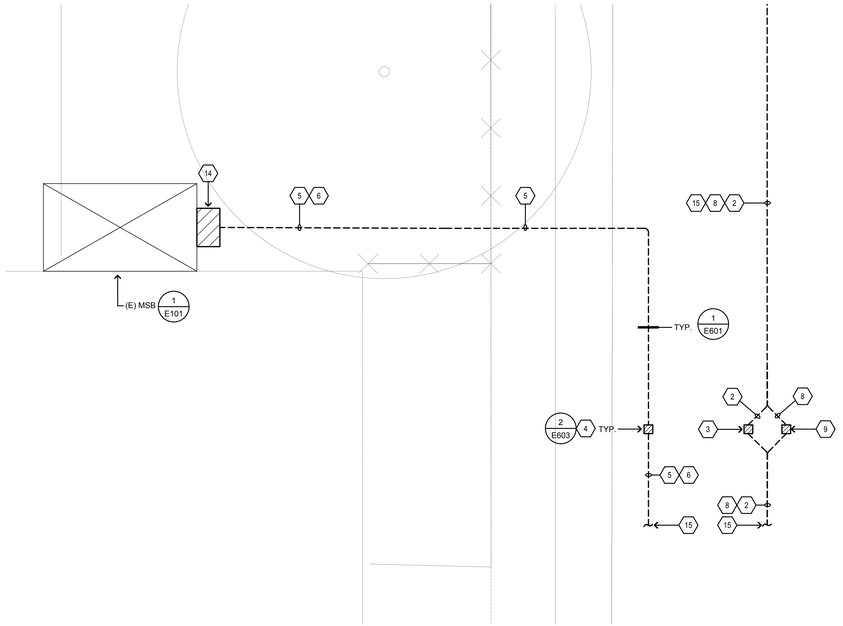
SHEET TITLE
PANELBOARD SCHEDULES

PHASE DESCRIPTION
100% CD - DSA APPROVAL
INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: RT
PROJECT MANAGER: TP
JOB NUMBER: 791

SHEET NUMBER
E102-1

PLOT DATE: 3/21/2025 3:26:20 PM

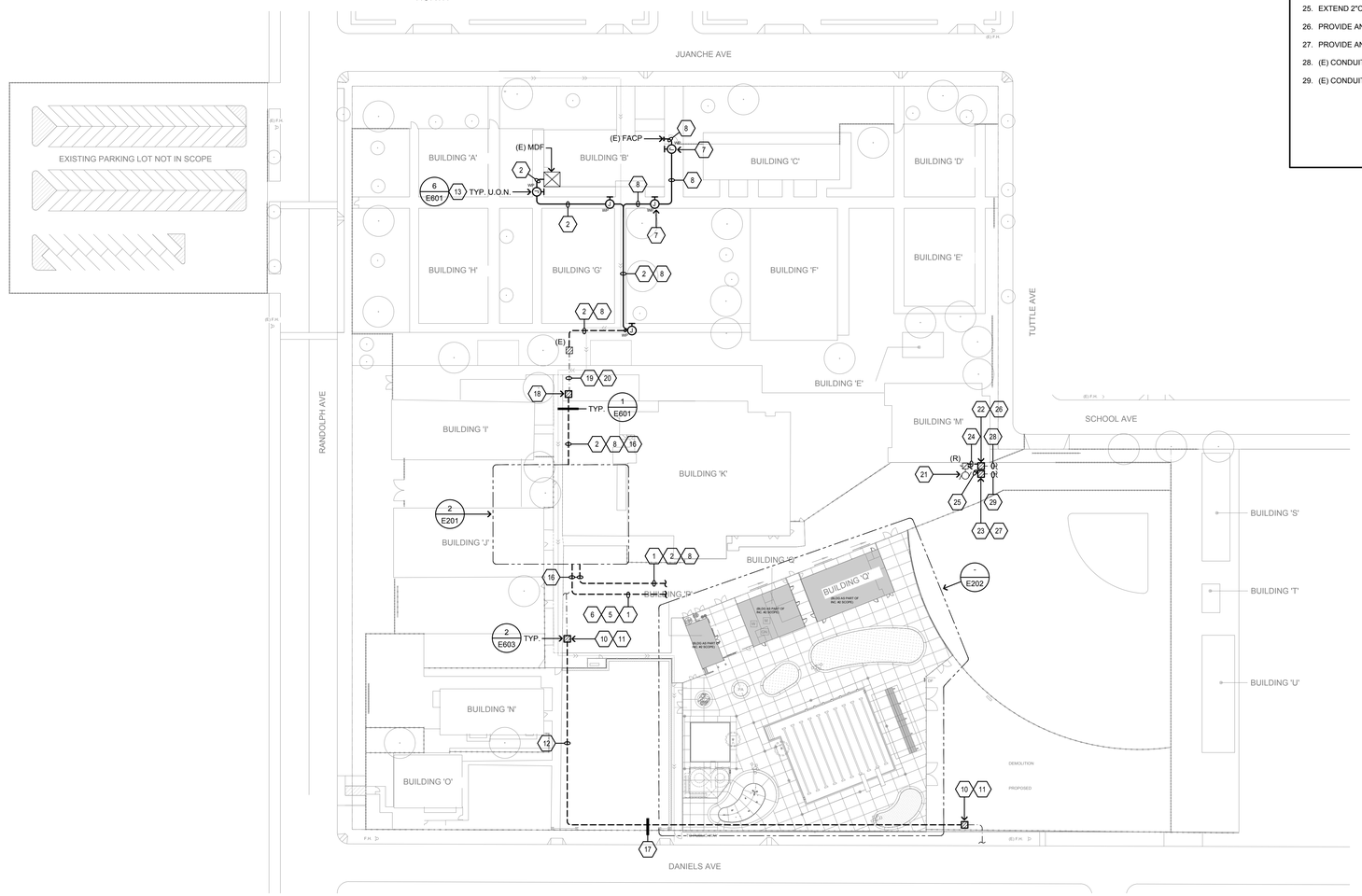


2 ENLARGED ELECTRICAL PLAN

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

4' 0' 1' 2' 3' 4'

NORTH



1 OVERALL SITE PLAN

SCALE: 1"=50'-0"

50' 0' 25' 50'

NORTH

SHEET NOTES

1. SEE E202 FOR CONTINUATION.
2. PROVIDE & INSTALL:
   - (1) 2 ½"C. FOR FOR FIBER OPTIC CABLES FROM (E) MDF TO "IDF-1" IN BUILDING "P".
   - (2) 2 ½"C.O. (SPARE) FOR FUTURE TELE/DATA FROM (E) MDF TO BUILDINGS "Q" UNDER PHASE 2 WORK
3. PROVIDE AND INSTALL CHRISTY #N30 PULLBOX WITH LID LABELED "SYSTEMS".
4. PROVIDE AND INSTALL CHRISTY #N30 PULLBOX WITH LID LABELED "ELECTRICAL".
5. PROVIDE AND INSTALL FEEDER CONNECTION FROM MSB TO DISTRIBUTION PANEL "DH".
6. SEE 1/E101 FOR FEEDER SIZES & REQUIREMENTS.
7. INSTALL 18" SQ. x 6" DEEP NEMA 3R PULLCAN UP HIGH ON BUILDING WALL.
8. PROVIDE & INSTALL:
   - (1) 2"C., FOR FIRE ALARM CABLES FROM (E) FACP TO "INX" PANEL LOCATED IN BUILDING "P".
   - (1) 2"C.O. (SPARE) FOR FUTURE FIRE ALARM FROM (E) FACP TO BUILDING "Q" UNDER PHASE 2 WORK.
9. PROVIDE & INSTALL CHRISTY#N30 PULLBOX LID LABELED "FIRE ALARM"
10. CONTRACTOR SHALL TRACE EXISTING MEDIUM VOLTAGE CABLE (IN EXISTING BORE/TRENCH) FOR PV SYSTEM INTERCONNECTION ROUTED THROUGH NEW SITE WORK; INTERCEPT IN NEW 3'x 5' (DEPTH SHALL BE ASSUMED MINIMUM 6' FOR BOX.
11. ASSUME EXISTING MEDIUM VOLTAGE CABLES ARE #1 COPPER, 21KV RATED, 133% INSULATION 5" CONDUIT. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION. WATERPROOF SPLICE AND EXTEND NEW MATCHING CONDUIT/CABLES BETWEEN TWO NEW PULL BOXES. CONTRACTOR SHALL TEST CONNECTIONS BETWEEN BOTH TRANSFORMERS AND ENSURE FULL FUNCTIONALITY. COORDINATE SHUT DOWN WITH UTILITY COMPANY AS NECESSARY FOR NEW WORK.
12. INSTALL NEW MATCHING 5" CONDUIT WITH SPLICED/EXTENDED 21KV CABLES BETWEEN NEW BOXES. ROUTE TO AVOID NEW POOL AREA WORK.
13. INSTALL 24" SQ. x 6" DEEP NEMA 3R PULLCAN UP HIGH ON BUILDING WALL. 6/E601-1
14. PROVIDE AND INSTALL PULLCAN ON SIDE OF EXISTING "MSB". 30" SQUARE X 18" DEEP, NEMA 3R. SEAL ALL PENETRATIONS, WATERPROOF.
15. SEE 1/E201 FOR CONTINUATION.
16. SEE 2/E201 FOR CONTINUATION.
17. CONTRACTOR SHALL CUT AND REPAIR CONCRETE/SIDEWALK TO CITY/DISTRICT REQUIREMENTS. CONTRACTOR SHALL VERIFY AND ACCOUNT FOR ALL REQUIREMENTS.
18. PROVIDE & INSTALL CHRISTY #B3048 TRAFFIC RATED IN-GRADE PULL BOX LID LABELED "SYSTEMS", AT PULL BOX TRACE AND INTERCEPT (E) (2) 3"C.O. FOR EXTENSION TO POOL BUILDING "P".
19. APPROXIMATE ROUTING OF (E) (2) 3" C.O.
20. PROVIDE AND INSTALL:
    - FIBER OPTIC CABLES IN (E) SPARE 3" CONDUIT
    - FIRE ALARM CABLES IN (E) SPARE 3" CONDUIT
21. APPROXIMATE LOCATION OF RELOCATED BOOSTER PUMP.
22. CONTRACTOR SHALL TRACE AND INTERCEPT (E) CONDUIT & LINE VOLTAGE FOR EXTENSION TO RELOCATED BOOSTER PUMP
23. CONTRACTOR SHALL TRACE AND INTERCEPT (E) CONDUIT & LOW VOLTAGE WIRES FOR CONTROLS TO RELOCATED BOOSTER PUMP.
24. EXTEND 2"C., W/ 3 #1 & 1 #6 GND FOR BOOSTER PUMP POWER.
25. EXTEND 2"C., W/ LOW VOLTAGE WIRES FOR BOOSTER PUMP CONTROLS.
26. PROVIDE AND INSTALL CHRISTY #N16 IN-GRADE PULL BOX LID LABELED "ELECTRICAL".
27. PROVIDE AND INSTALL CHRISTY #N09 IN-GRADE PULL BOX LID LABELED "SYSTEMS".
28. (E) CONDUIT W/ (E) LINE VOLTAGE TO (E) BOOSTER PUMP CONTROL PANEL.
29. (E) CONDUIT W/ (E) LOW VOLTAGE WIRES TO (E) BOOSTER PUMP CONTROLLER.

NOTES:

A. CONTRACTOR SHALL LOCATE ALL (E) UNDERGROUND UTILITIES PRIOR TO TRENCHING AND TAKE CAUTION TO AVOID DAMAGE DURING TRENCHING. HAND TRENCH IF NECESSARY. CONTRACTOR SHALL MAKE ALL REPAIRS TO DAMAGED UTILITIES AT NO CHARGE TO OWNER.

B. ALL WIRING FOR SITE LIGHTING SHALL BE #10 AWG MINIMUM, U.O.N.

C. SEAL ALL EXTERIOR/INTERIOR BUILDING PENETRATIONS, CUT AND PATCH WALLS/CEILINGS FOR CONDUIT ROUTING AS NECESSARY. PAINT/FINISH EXPOSED CONDUITS/BOXES TO MATCH BUILDING FINISH. COORDINATE WITH DISTRICT & ARCHITECT FOR EXACT REQUIREMENTS.

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REVISIONS

REV #	REV DATE	REV DESCRIPTION

SEAL

REGISTERED PROFESSIONAL ENGINEER
NAJIB ANWATI
No. E21043
EXP. 3/31/27
ELECTRICAL
STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE
OVERALL SITE PLAN

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: RT
PROJECT MANAGER: TP
JOB NUMBER: 791

SHEET NUMBER
E201-1

PLOT DATE: 3/21/2025 3:26:20 PM

NOTES:

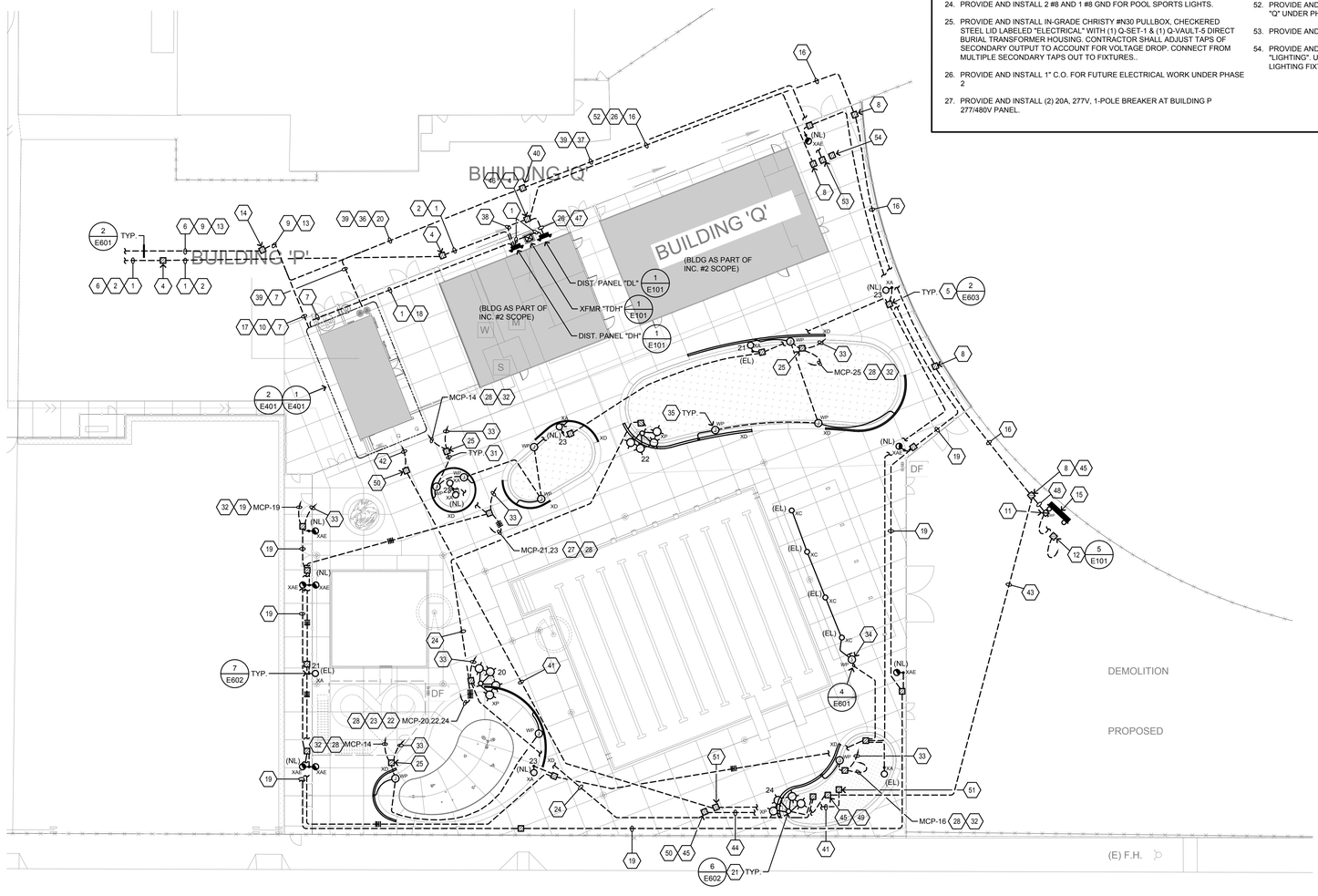
A. CONTRACTOR SHALL LOCATE ALL (E) UNDERGROUND UTILITIES PRIOR TO TRENCHING AND TAKE CAUTION TO AVOID DAMAGE DURING TRENCHING. HAND TRENCH IF NECESSARY. CONTRACTOR SHALL MAKE ALL REPAIRS TO DAMAGED UTILITIES AT NO CHARGE TO OWNER.

B. U.O.N., ALL WIRING FOR PATHWAY POLE LIGHTING SHALL BE 1"C., #10 AWG MINIMUM.

C. SEAL ALL EXTERIOR/INTERIOR BUILDING PENETRATIONS, CUT AND PATCH WALLS/CEILINGS FOR CONDUIT ROUTING AS NECESSARY. PAINT/FINISH EXPOSED CONDUITS/BOXES TO MATCH BUILDING FINISH. COORDINATE WITH DISTRICT & ARCHITECT FOR EXACT REQUIREMENTS.

SHEET NOTES

1. SEE 1/E101 FOR FEEDER SIZES & REQUIREMENTS.
2. PROVIDE AND INSTALL FEEDER CONNECTION FROM MSB TO DISTRIBUTION PANEL "DH".
3. PROVIDE AND INSTALL CHRISTY #B1324 TRAFFIC RATED PULL BOX WITH LID LABELED "LIGHTING". UTILIZE PULL BOX FOR ROUTING OF 1"C.O. HOMERUNS FROM LIGHT FIXTURES TO CHRISTY #N16 PULL BOX OUTSIDE OF BUILDING "Q".
4. PROVIDE AND INSTALL CHRISTY #B2436 TRAFFIC RATED PULL BOX WITH LID LABELED "ELECTRICAL".
5. PROVIDE AND INSTALL CHRISTY #N30 PULLBOX WITH LID LABELED "LIGHTING".
6. SEE E201 FOR CONTINUATION.
7. SEE E401 FOR CONTINUATION.
8. PROVIDE & INSTALL CHRISTY #N36 IN-GRADE PULL BOX LID LABELED "ELECTRICAL" .
9. PROVIDE & INSTALL:
   -(1) 2 ½"C. FOR FIBER OPTIC CABLES FROM (E) MDF TO "IDF-1"
   -(2) 2 ½"C.O. (SPARE) FOR FUTURE TELE/DATA IN PHASE 2
10. PROVIDE AND INSTALL 2"C., FOR FIRE ALARM CABLES FROM (E) FACP TO "INX" PANEL LOCATED IN BUILDING "P".
11. INSTALL 20 AMP, 120V, 1-POLE FUSED DISCONNECT FOR SCOREBOARD.
12. LOCATE GROUND ROD BOX; SEE DETAIL 5/E101. INSTALL 3/4" CONDUIT WITH #4 AWG GROUND WIRE FROM GROUND ROD BOX UP TO DISCONNECT/STEEL FRAME STRUCTURE OF SCOREBOARD MFR. INSTALLATION INSTRUCTIONS FOR INSTALLATION AND GROUNDING REQUIREMENTS.
13. PROVIDE & INSTALL:
    - (1) 2"C., FOR FIRE ALARM CABLES FROM (E) FACP TO "INX" PANEL LOCATED IN BUILDING "P".
    - (1) 2"C.O. (SPARE) FOR FUTURE FIRE ALARM IN PHASE 2
14. PROVIDE AND INSTALL CHRISTY #B2436 TRAFFIC RATED PULL BOX WITH LID LABELED "SYSTEMS".
15. SCOREBOARD, 20A, 120V.
16. PROVIDE & INSTALL 3"C., W/ 6 #2 & 3 #6 GND FOR SCOREBOARD POWER FROM PANEL "DL".
17. PROVIDE AND INSTALL 2 ½"C., FOR FIBER OPTIC CABLES FROM (E) MDF TO "IDF-1" LOCATED IN BUILDING "P".
18. PROVIDE AND INSTALL FEEDER TO PANEL "MCP".
19. CONNECT VIA EMERGENCY LIGHTING INVERTER LOCATED IN BUILDING "P".
20. PROVIDE AND INSTALL
    -(2) 2 ½"C.O. (SPARE) FOR FUTURE TELE/DATA IN PHASE 2
    -(1) 2" C.O. (SPARE) FOR FUTURE FIRE ALARM "INX" PANEL IN PHASE 2
21. PROVIDE AND INSTALL (3) ON/OFF SWITCH FOR EACH SPORTS POLE LIGHT.
22. CONNECT TO (3) 20A, 277V, 1-POLE BREAKER AT BUILDING P 277/480V PANEL.
23. PROVIDE AND INSTALL 6 #8 AND 1 #8 GND FOR POOL SPORTS LIGHTS.
24. PROVIDE AND INSTALL 2 #8 AND 1 #8 GND FOR POOL SPORTS LIGHTS.
25. PROVIDE AND INSTALL IN-GRADE CHRISTY #N30 PULLBOX, CHECKERED STEEL LID LABELED "ELECTRICAL" WITH (1) Q-SET-1 & (1) Q-VAULT-5 DIRECT BURIAL TRANSFORMER HOUSING. CONTRACTOR SHALL ADJUST TAPS OF SECONDARY OUTPUT TO ACCOUNT FOR VOLTAGE DROP. CONNECT FROM MULTIPLE SECONDARY TAPS OUT TO FIXTURES..
26. PROVIDE AND INSTALL 1" C.O. FOR FUTURE ELECTRICAL WORK UNDER PHASE 2
27. PROVIDE AND INSTALL (2) 20A, 277V, 1-POLE BREAKER AT BUILDING P 277/480V PANEL.
28. CONNECT VIA LIGHTING CONTROL PANEL.
29. PROVIDE AND INSTALL 2"C., FOR FIRE ALARM CABLES.
30. PROVIDE AND INSTALL 1"C.O.
31. CIRCUIT ALL CONCRETE BENCH STRIP LIGHTING WITH #8 AWG FROM SECONDARY OF TRANSFORMER (24VDC).
32. PROVIDE AND INSTALL 20A, 1-POLE BREAKER AT BUILDING P 277/480V PANEL.
33. HOME RUN 1"C.O. TO CHRISTY #N16 PULL BOX W/ LID LABELED "LIGHTING" OUTSIDE OF BUILDING "Q".
34. PROVIDE AND INSTALL 16" SQ x 4" DEEP NEMA 3R PULLCAN.
35. COORDINATE JUNCTION BOXES AT SEAT WALLS. SHALL BE FLUSH CAST IRON.
36. STUB 2 ½"C.O., INTO PULLBOX FOR FUTURE TELE/DATA IN BUILDING "Q" AS PART OF PHASE 2 WORK.
37. PROVIDE AND INSTALL: (STUB C.O. INTO PULLBOX)
    - 2 ½"C.O. (SPARE) FOR FUTURE TELE/DATA IN BUILDING "Q" AS PART OF PHASE 2 WORK.
    - 2"C.O., (SPARE) FOR FUTURE FIRE ALARM IN BUILDING "Q" AS PART OF PHASE 2 WORK.
38. PROVIDE AND INSTALL (2) 3"C.O. FOR FUTURE ELECTRICAL WORK IN BUILDING "Q" UNDER PHASE 2 WORK.
39. PROVIDE AND INSTALL (2) 2"C.O. FOR FUTURE FIRE ALARM IN BUILDINGS "Q" AND "R" UNDER PHASE 2 WORK.
40. PROVIDE AND INSTALL CHRISTY #B1730 TRAFFIC RATED PULL BOX LID LABELED "SYSTEMS".
41. PROVIDE AND INSTALL 1 ½"C.O FROM "IDF-1" TO PULL FOR FUTURE SCOREBOARD.
42. HOME RUN 1 ½"C.O. FROM PULL BOX FOR FUTURE SCOREBOARD DATA TO "IDF-1".
43. PROVIDE AND INSTALL 2 ½"C., W/ 4 #2 & 2 #6 GND FOR SCORE BOARD POWER FROM PANEL "DL".
44. PROVIDE AND INSTALL 1 ½"C., W/ 2 #2 & 1 #6 GND FOR SCORE BOARD POWER FROM PANEL "DL".
45. AT PULL BOX, WATERPROOF SPLICE WIRES FROM 2 #2 AND 1 #6 GND DOWN TO 2 #10 AND 1 #10 GND TO ALLOW FOR TERMINATION AT SCOREBOARD.
46. AT PULL BOX, WATERPROOF SPLICE WIRES FROM 6 #10 AND 3 #10 GND UP TO 6 #2 AND 3 #6 GND TO ALLOW FOR TERMINATION AT PANEL "DL".
47. PROVIDE AND INSTALL 6 #10 & 3 #10 GND FOR SCOREBOARD POWER.
48. PROVIDE AND INSTALL 2 #10 & 1 #10 GND FOR SCOREBOARD POWER.
49. PROVIDE AND INSTALL CHRISTY #N16 IN-GRADE PULL BOX LID LABELED "ELECTRICAL".
50. PROVIDE AND INSTALL CHRISTY #N09 IN-GRADE PULL BOX LID LABELED "ELECTRICAL".
51. PROVIDE AND INSTALL CHRISTY #N09 IN-GRADE PULL BOX LID LABELED "SYSTEMS".
52. PROVIDE AND INSTALL 3"C.O. FOR FUTURE ELECTRICAL WORK IN BUILDING "Q" UNDER PHASE 2 WORK.
53. PROVIDE AND INSTALL CHRISTY #N36 PULL BOX W/ LID LABELED "SYSTEMS".
54. PROVIDE AND INSTALL CHRISTY #N16 PULL BOX WITH LID LABELED "LIGHTING". UTILIZE PULL BOX FOR ROUTING OF 1"C.O. HOMERUNS FROM LIGHTING FIXTURES TO THIS PULL BOX BOX OUTSIDE OF BUILDING "Q".



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DATE: 9/30/2025

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REVISIONS

REV #	REV DATE	REV DESCRIPTION

SEAL

REGISTERED PROFESSIONAL ENGINEER
NAJIB ANNABY
No. E21043
EXP. 3/31/27
ELECTRICAL
STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

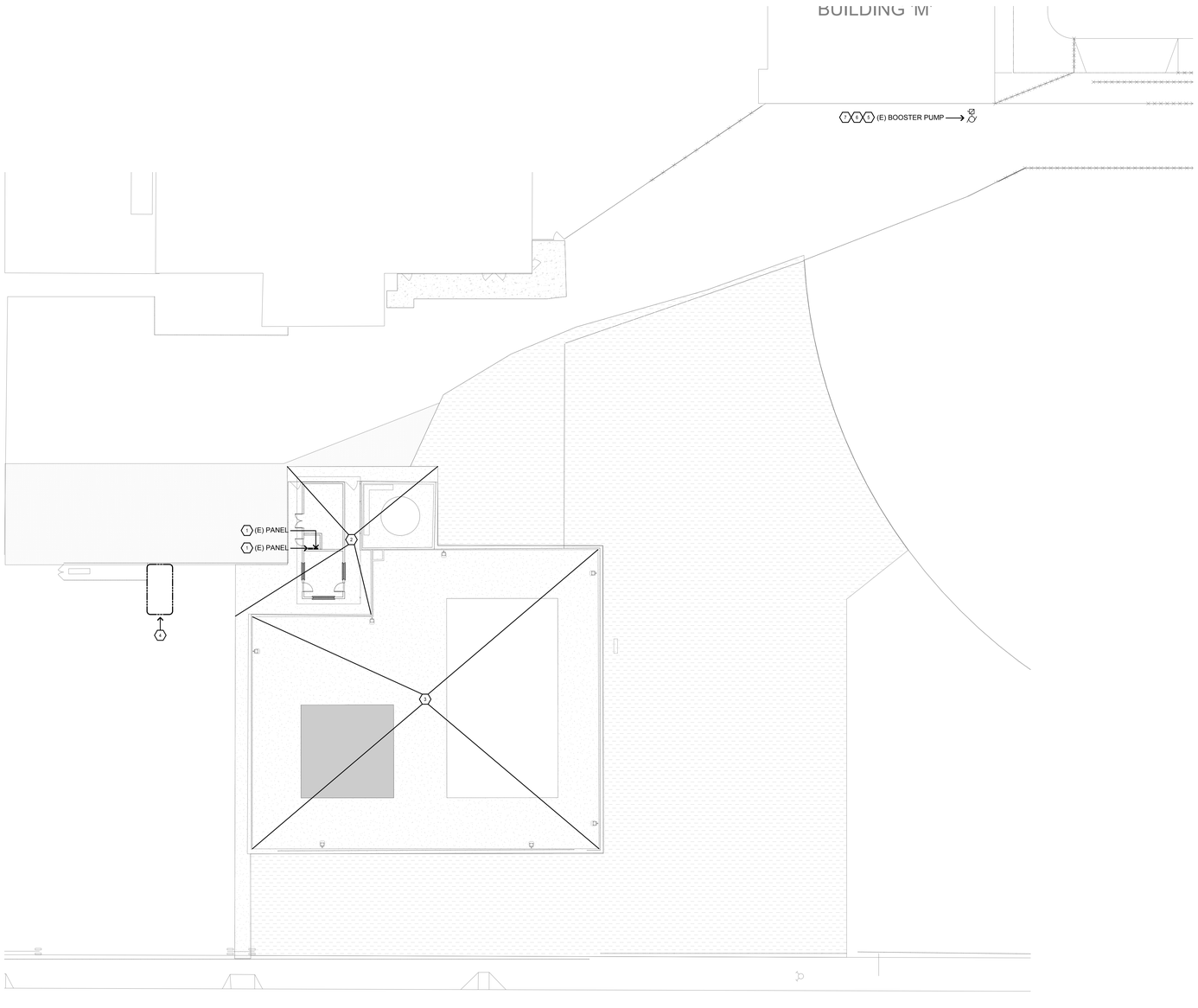
SHEET TITLE
ENLARGED SITE PLAN

PHASE DESCRIPTION
100% CD - DSA APPROVAL
INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: RT
PROJECT MANAGER: TP
JOB NUMBER: 791

SHEET NUMBER
E202-1

PLOT DATE: 3/21/2025 3:26:20 PM



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

NORTH

SHEET NOTES

1. (E) ELECTRICAL PANEL/DISCONNECT, DEMOLISH PER GENERAL DEMOLITION NOTES.
2. DEMOLISH ALL (E) WITHIN POOL BUILDING.
3. DEMOLISH ALL ELECTRICAL WITHIN POOL DEMOLITION AREA OF WORK.
4. PER GENERAL DEMOLITION NOTES ON SHEET E301, CONTRACTOR SHALL DEMOLISH EXISTING DISCONNECTS/ELECTRICAL EQUIPMENT IN THIS GENERAL AREA; NO LONGER CONNECTED TO PORTABLES REMOVED.
5. PER GENERAL DEMOLITION NOTES ON THIS SHEET, CONTRACTOR SHALL DISCONNECT & RELOCATE (E) BOOSTER PUMP. SEE NEW PLANS ON 1/E201 FOR RECONNECTION.
6. CONTRACTOR SHALL SALVAGE (E) CONDUITS, LINE VOLTAGE & LOW VOLTAGE WIRES FOR RECONNECTION UNDER NEW WORK, SEE NEW PLANS ON 1/E201 FOR INTERCEPTION & EXTENSION OF SALVAGED CONDUITS, LINE VOLTAGE & LOW VOLTAGE WIRES.
7. APPROXIMATE LOCATION OF (E) BOOSTER PUMP.

GENERAL DEMOLITION NOTES

A. CONTRACTOR SHALL FIELD VERIFY EXTENT OF ELECTRICAL DEMOLITION AND QUANTITIES OF ELECTRICAL TO BE REMOVED AS DICTATED BY THE REQUIREMENTS OF THE PROJECT.

B. REMOVAL SHALL INCLUDE WIRING, RACEWAY, BOXES, SWITCHES, LIGHT FIXTURES, ETC. AS INDICATED ON THE PLANS AND AS REQUIRED BY THESE DEMOLITION NOTES.

C. RACEWAYS ASSOCIATED WITH ELECTRICAL BEING DEMOLISHED WHICH ARE CONCEALED IN EXISTING REMAINING WALLS MAY BE ABANDONED IN PLACE. REMOVE WIRING FROM CONDUIT.

D. RACEWAYS ASSOCIATED WITH ELECTRICAL BEING DEMOLISHED WHICH ARE EXPOSED SHALL BE REMOVED.

E. WHERE REMOVAL OF EQUIPMENT OR WIRING IS INDICATED, IT SHALL INCLUDE ALL ASSOCIATED WIRING BACK TO LAST ACTIVE REMAINING OUTLET, DEVICE, FIXTURE OR PANEL.

F. ELECTRICAL CONTRACTOR SHALL INSURE THAT ALL REMAINING ACTIVE CIRCUITS, DEVICES, OUTLETS, LIGHT FIXTURES, ETC. HAVE NOT BEEN DISCONNECTED OR MADE INOPERATIVE DURING DEMOLITION. ELECTRICAL CONTRACTOR SHALL RESTORE ALL INTERRUPTED OR DISCONNECTED CIRCUITS TO OPERATION.

G. ELECTRICAL CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL REMOVED ELECTRICAL EQUIPMENT AND MATERIAL.

H. NO REMOVED EQUIPMENT OR MATERIAL SHALL BE REUSED AS PART OF NEW WORK, U.O.N.

I. EXISTING REMAINING CONCEALED RACEWAYS MAY BE REUSED FOR NEW WORK PROVIDED THEY MEET ALL REQUIREMENTS OF THE SPECIFICATION FOR NEW WORK.

J. EXISTING FLUSH OUTLETS MAY BE REUSED FOR NEW WORK PROVIDED THEY MEET ALL REQUIREMENTS OF THE SPECIFICATION FOR NEW WORK, MEET THE REQUIREMENTS OF THE CURRENT C.E.C. FOR VOLUME AND COINCIDE WITH LOCATION SHOWN FOR THE NEW WORK.

K. FLUSH OUTLET BOXES IN EXISTING WALLS TO REMAIN MAY BE ABANDONED IN PLACE. REMOVE DEVICES AND WIRING, PLUG OPENING AND PROVIDE AND INSTALL A BLANK DEVICE PLATE.

L. EXISTING WIRING SHOWN HAS BEEN TAKEN FROM OLD PLANS AND IS ASSUMED TO BE CORRECT. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ACTUAL CONDITIONS AND MAKE ADJUSTMENTS TO SUIT ACTUAL CONDITIONS AND TO MEET THE INTENT OF THE CONTRACT DOCUMENTS.

M. WHERE TELEPHONE, COMPUTER DATA, FIBER OPTICS, FIRE ALARM OR OTHER COMMUNICATIONS OUTLETS OR WIRING IS TO BE DEMOLISHED IT SHALL BE REMOVED BACK TO THE NEXT TERMINAL POINT. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH OWNER OR OWNER'S REPRESENTATIVE TO HAVE EQUIPMENT AND WIRING DESIGNATED FOR REMOVAL OR PRESERVATION PRIOR TO REMOVAL OF OUTLET BOXES, CONDUIT OR WIRING BY ELECTRICAL CONTRACTOR.

N. COORDINATE WITH OWNER PRIOR TO START OF DEMOLITION TO MINIMIZE POWER INTERRUPTIONS, WORK MAY HAVE TO OCCUR DURING NON-REGULAR BUSINESS HOURS. COORDINATE IN WRITING WITH OWNER ONE WEEK PRIOR TO PLANNED POWER INTERRUPTIONS.

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REVISIONS

REV #	REV DATE	REV DESCRIPTION

SEAL

REGISTERED PROFESSIONAL ENGINEER
NAJIB ANWARY
No. E21043
EXP. 3/31/27
ELECTRICAL
STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE
DEMOLITION SITE PLAN & GENERAL DEMOLITION NOTES

PHASE DESCRIPTION
100% CD - DSA APPROVAL
INCREMENT 1

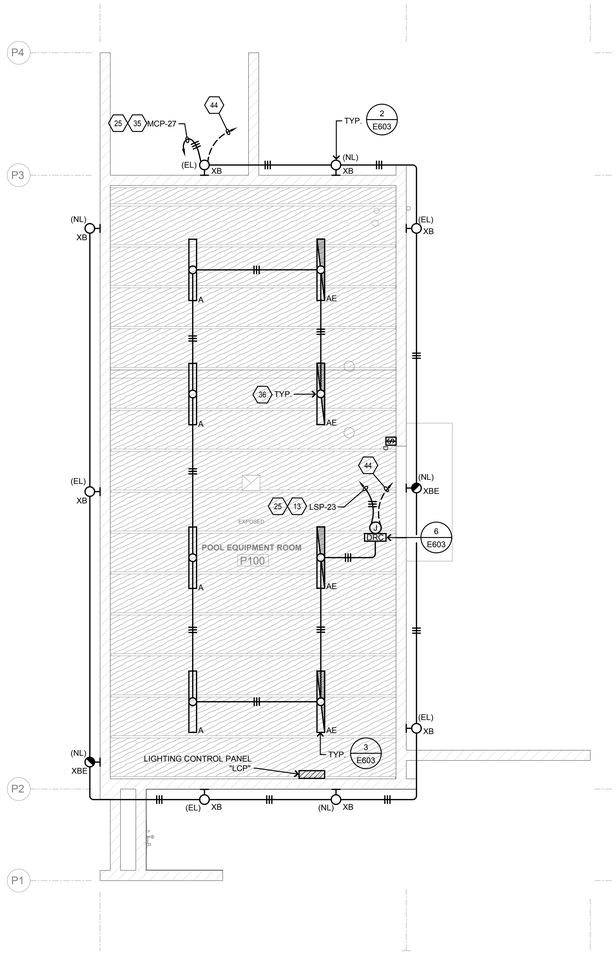
DATE: 9/24/2025
TECHNICIAN: RT
PROJECT MANAGER: TP
JOB NUMBER: 791

SHEET NUMBER
E301-1

PLOT DATE: 3/21/2025 3:26:20 PM

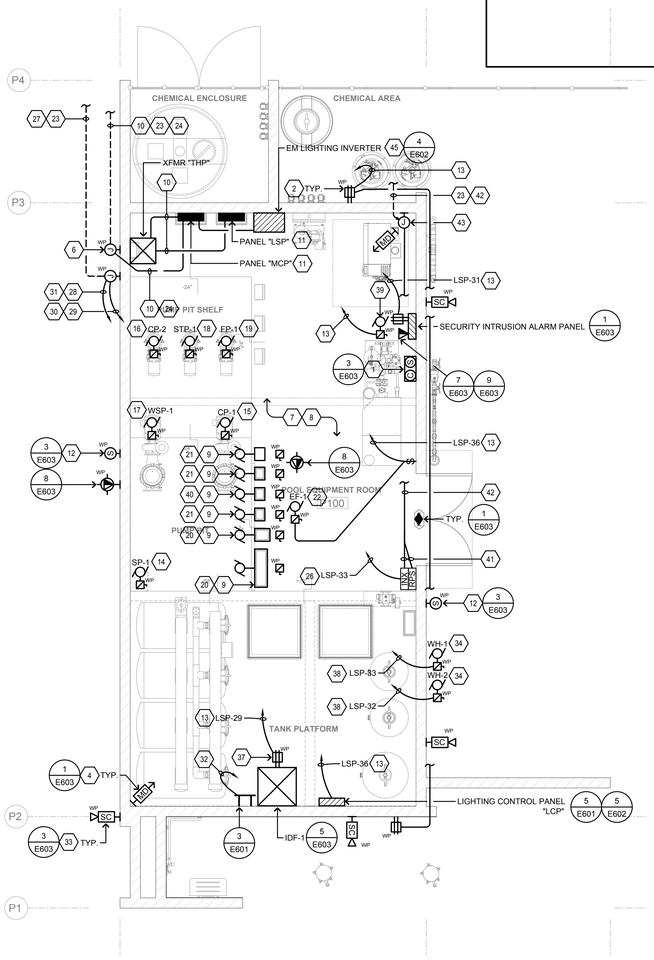
SHEET NOTES

1. PROVIDE AND INSTALL IP-SDM ATLAS PA SPEAKER AND CLOCK WITH WALL MOUNTED BACK BOX TO HOUSE BOTH DEVICES; W/ ½"C., & CAT 6 CABLE TO IDF. PROVIDE AND INSTALL NECESSARY MOUNTING HARDWARE.
2. PROVIDE & INSTALL IN-USE WEATHERPROOF COVER, TAYMAC OR EQUAL.
3. PROVIDE & INSTALL PATCH PANEL FOR PA/SPEAKER SYSTEM. EXTEND AND CONNECT NEARBY STUBBED PA/CLOCK CONDUIT WITH PA/CLOCK CABLES TO PATCH PANEL.
4. VERIFY EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
5. NOTE NOT USED.
6. INSTALL 6" SQ. x 4" DEEP NEMA 3R PULLCAN UP HIGH ON BUILDING WALL.
7. ALL EXPOSED ELECTRICAL CONDUIT, BOXES, AND COVER PLATES IN CHLORINE & ACID ROOMS.
8. EQUIPMENT & EXACT LOCATIONS TO BE VERIFIED.
9. LOCATE/MOUNT DISCONNECT NEXT TO VFD. SEE POOL DRAWINGS FOR UNISTRUT MOUNTING ON POSTS FOR THIS EQUIPMENT. ON FACE OF CIRCULATION PUMP DISCONNECT, PROVIDE & INSTALL LAMICOID NAME PLATE READING: "WHERE DISCONNECT IS SHUT-OFF ALL VFD STATUS WILL CAUSE SYSTEM RESET. SEE VFD INSTRUCTIONS FOR SHUT-OFF TO AVOID COMPLETE RESET".
10. SEE SINGLE LINE DIAGRAM 1/E101 FOR FEEDER SIZE AND REQUIREMENTS.
11. PROVIDED AS PART OF BUILDING P. SEE POOL EQUIPMENT DRAWINGS.
12. LOCATE FOR PA SPEAKER, PROVIDE & INSTALL IP-HPV ATLAS SPEAKER W/ ½"C., & CAT 6 CABLE TO IDF.
13. CONNECT TO A 20A, 120V, 1-POLE BREAKER IN PANEL "LSP".
14. PROVIDE AND INSTALL SUMP PUMP, 1/3 HP, 1Ø.
15. PROVIDE AND INSTALL CIRCULATION PUMP, 20 HP, 3Ø, 460V.
16. PROVIDE AND INSTALL CIRCULATION PUMP, 5 HP, 3Ø, 208V.
17. PROVIDE AND INSTALL WATERSLIDE PUMP, 15 HP, 3Ø, 460V.
18. PROVIDE AND INSTALL SURGE TANK CIRCULATION PUMP, 5 HP, 3Ø, 208V.
19. PROVIDE AND ISNTALL FEATURE PUMP, 5 HP, 460V.
20. VARIABLE FREQUENCY DRIVE, 20 HP, 460V, W/ 36" X 30" X 10" CABINET.
21. VARIABLE FREQUENCY DRIVE, 5 HP, 460V.
22. EXHAUST FAN, 1/25 HP, 120V, ON ROOF.
23. SEE SHEET E202 FOR CONTINUATION.
24. PROVIDE AND INSTALL FEEDER TO PANEL "MCP".
25. CIRCUIT VIA LIGHTING CONTROL PANEL.
26. CIRCUIT VIA ½"-, 2 #12 & 1 #12 GND TO PANEL "LSP" , AT PANEL PROVIDE AND INSTALL 20 AMP, 1-POLE BREAKER WITH LOCK-ON DEVICE WITH RED MARKINGS LABELED "FIRE ALARM/ECS".
27. PROVIDE AND INSTALL:
    -(1) 2"C. FOR FIRE ALARM CABLES
    -(1) 2 ½"C. FOR TELE/DATA CABLES.
28. HOMERUN TO "IDF" LOCATED IN POOL EQUIPMENT BUILDING "P".
29. HOMERUN TO INTELLIGENT NETWORK TRANSPONDER "INX" LOCATED IN POOL EQUIPMENT BUILDING "P".
30. PROVIDE AND INSTALL 2"C. FOR FIRE ALARM CABLES.
31. PROVIDE AND INSTALL 2 ½"C. FOR TELE/DATA CABLES.
32. ¾"C., W/ #6 GND TO DIST. PANEL GND BUS.
33. CONTRACTOR SHALL INSTALL VERKADA CCTV CAMERA W/ ¾"C., & CAT 6A CABLE TO IDF. CONTRACTOR SHALL COORDINATE FOR EXACT MAKE/MODEL W/ I.T. DEPARTMENT. (DOME SERIES).
34. WATER HEATER, 75 WATTS, 120V.
35. CONNECT TO (1) 20A, 277V, 1-POLE BREAKER IN PANEL "MSP"
36. CONTRACTOR SHALL CONNECT EMERGENCY BATTERY BACK-UP TO LIGHTING CIRCUIT VIA UNSWITCHED HOT IN SPACE AND ALLOW FOR NORMAL SWITCHING DURING NORMAL OPERATION.
37. PROVIDE AND INSTALL DEDICATED DUPLEX RECEPTACLE FOR IDF. CIRCUIT VIA ½" C. 2 #12 & 1 #12GND TO PANEL IN SAME PORTABLE CLASSROOM; AT PANEL PROVIDE AND INSTALL 20A, 1-POLE BREAKER AND ALL NECESSARY MOUNTING HARDWARE.
38. CONNECT TO A 15A, 120V, 1-POLE BREAKER IN PANEL "LSP"
39. ELECTRONIC TRAP PRIMER, 9.2W, 120V.
40. VARIABLE FREQUENCY DRIVE, 15 HP, 460V, W/ NEMA 4X CABINET.
41. PROVIDE AND INSTALL 2"C.O., FOR FUTURE FIRE ALARM TO BUILDING "Q" UNDER PHASE 2 WORK.
42. PROVIDE AND INSTALL (2) 2"C.O. FOR FUTURE FIRE ALARM TO BUILDING "Q" UNDER PHASE 2 WORK.
43. PROVIDE AND INSTALL 24" SQ x 4" DEEP NEMA 1 SYSTEMS TERMINATION CAN.
44. HOME RUN 1"C.O. TO TRAFFIC RATED PULL BOX W/ LID LABELED "LIGHTING" OUTSIDE OF BUILDING "Q".
45. EMERGI-LITE INVERTER MODEL EMIU 100 - 4 OPTION MINI INVERTER. EMERGENCY LIGHTING DURATION SHALL NOT BE LESS THAN 90 MINUTES.



2 BUILDING P - LIGHTING PLAN

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



1 BUILDING P - POWER & SYSTEMS PLAN

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

NORTH

BRANCH CIRCUIT CONDUCTOR SIZING TABLE

CIRCUIT AMPACITY/VOLTAGE	CIRCUIT LENGTH	REQUIREMENT
20/120	56'-90'	½" C., 2 #10 & 1 #10 GND.
20/120	91'-140'	½" C., 2 #8 & 1 #8 GND.
20/277	131'-205'	½" C., 2 #10 & 1 #10 GND.
20/277	206'-330'	½" C., 2 #8 & 1 #8 GND.

NOTE:

A. CONTRACTOR SHALL SIZE BRANCH CIRCUIT CONDUCTORS PER THE TABLE ABOVE AS DETERMINED BY THE CIRCUIT CONDUCTOR LENGTH, U.O.N. CONTRACTOR SHALL SPLICE TO #12 AWG WITHIN TERMINATION BOX FOR DEVICE CONNECTION IF NECESSARY.

B. WHERE THE UNGROUNDED CONDUCTORS IS INCREASED IN SIZE, INCLUDING FOR VOLTAGE DROP, THE GROUNDED CONDUCTOR SHALL BE INCREASED IN SIZE PROPORTIONATELY PER CEC 250.122(B)

GENERAL NOTES:

A. SEAL ALL EXTERIOR/INTERIOR BUILDING PENETRATIONS, CUT AND PATCH WALLS/CEILINGS FOR CONDUIT ROUTING AS NECESSARY. PAINT/FINISH EXPOSED CONDUITS/BOXES TO MATCH BUILDING FINISH. COORDINATE WITH DISTRICT & ARCHITECT FOR EXACT REQUIREMENTS.

B. CONTRACTOR SHALL PROVIDE & INSTALL TAMPER-RESISTANT TYPE RECEPTACLES FOR ALL GENERAL 20 AMP, 120V RECEPTACLES. ONLY RECEPTACLES TO BE MOUNTED/LOCATED AT +5'-6" A.F.F. AND FOR FIXED EQUIPMENT (WITH CORD & PLUG CONNECTION) ARE NOT REQUIRED TO BE OF TAMPER-RESISTANT TYPE.

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SEAL

REGISTERED PROFESSIONAL ENGINEER NAJIB ANWAR No. E21043 EXP. 3/31/27 ELECTRICAL STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

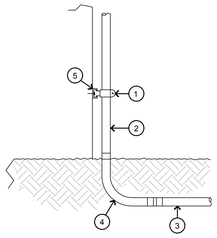
SHEET TITLE
BUILDING P - POWER & LIGHTING PLAN

PHASE DESCRIPTION
100% CD - DSA APPROVAL
INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: RT
PROJECT MANAGER: TP
JOB NUMBER: 791

SHEET NUMBER
E401-1

PLOT DATE: 3/21/2025 3:26:20 PM



DETAIL NOTES:

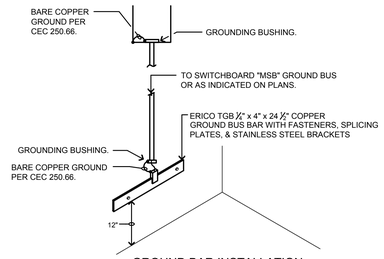
1. UNISTRUT BRACKET.
2. GALVANIZED RIGID STEEL CONDUIT.
3. SCHEDULE 40 PVC.
4. WRAPPED GALVANIZED RIGID STEEL ELBOW AND UNDERGROUND RISER.
5. UNISTRUT CHANNEL.

GENERAL NOTES:
A. FOR WOOD STUD WALL:
USE ½" LAG BOLT WITH MIN. ⅜" EMBEDMENT INTO STUDS.
(ONE AT EACH END OF BRACKET)

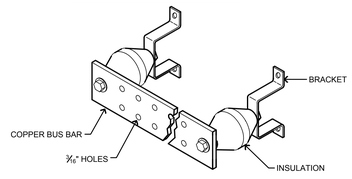
B. FOR CONCRETE WALL:
USE ½" WEDGE ANCHOR WITH MIN. 2 ½" EMBEDMENT INTO CONCRETE WALL. (ONE AT EACH END OF BRACKET)

4 UNDERGROUND CONDUIT RISER DETAIL

NO SCALE



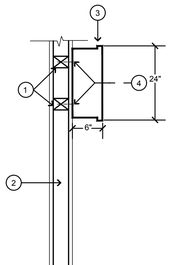
GROUND BAR INSTALLATION



TYPICAL GROUND BAR

3 GROUND BAR DETAIL

NO SCALE

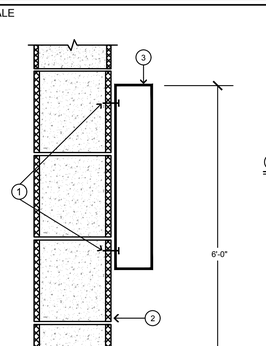


DETAIL NOTES:

1. 4" x 6" FLAT BLOCKING BETWEEN (E) STUDS WITH SIMPSON STRONG-TIE FRAMING CLIP A35. TOP AND BOTTOM EACH END
2. (E) WALL STUDS
3. NEMA 3R PULL CAN
4. ¼" DIA. LAG SCREW INTO BLOCKING MIN. 2½" PENETRATION; PER-DRILL TO AVOID SPLITTING. TYP. (4) PER PANEL AT CORNERS

6 SURFACE MOUNTED PULL CAN DETAIL

NO SCALE

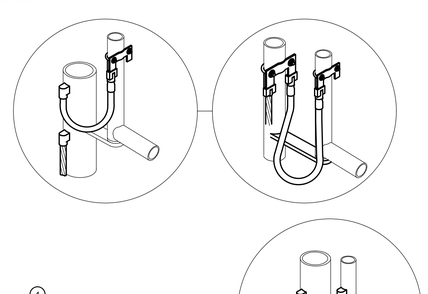


DETAIL NOTES:

1. ½" DIA. STAINLESS STEEL KB-TZ-2 ANCHOR W/ 3" NOMINAL EMBEDMENT, TYP. AT EA. MOUNTING HOLE (4 PLACES). INSTALL IN CONFORMANCE WITH ICC ESR 4561. SEE SHEETS S1.03-1 FOR REQUIRED INSTALLATION TORQUE. ANCHORS SHALL BE LOCATED A MINIMUM OF 2" AWAY FROM ANY HEAD JOINT.
2. CMU BUILDING WALL.
3. LIGHTING CONTROL PANEL 20"W x 40"H x 6"D (WEIGHT 40 LBS MAX).

5 LIGHTING CONTROL PANEL MOUNTING DETAIL

NO SCALE



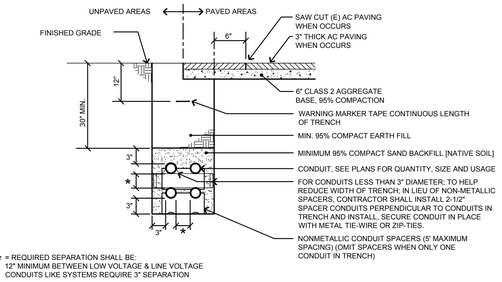
DETAIL NOTES:

1. CADWELD FJ FLEX JUMPER (2/0 OR 4/0)
2. CADWELD TYPE VB
3. CADWELD TYPE TA
4. GATE POST
5. GATE FRAME
6. CADWELD TYPE VB
7. GRADE
8. GROUND WIRE (3 FEET OUTSIDE OF FENCE TYPICAL)

NOTES:
1. TOP RAIL BONDING SHOWN; PROVIDE SIM. BONDS @ INTERMEDIATE & BOTTOM WHEN OCCUR.
2. MINIMUM FENCE HEIGHT SHALL BE 6'-0", INSTALLED BY OTHERS. SEE CIVIL DRAWINGS.

2 GATE & GATE POST GROUNDING

NO SCALE



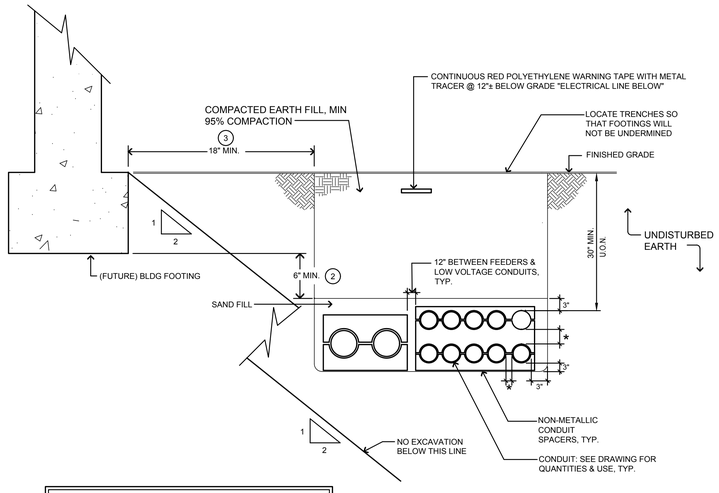
★ = REQUIRED SEPARATION SHALL BE:
12" MINIMUM BETWEEN LOW VOLTAGE & LINE VOLTAGE CONDUITS LIKE SYSTEMS REQUIRE 3" SEPARATION

NOTES FOR CLEARANCES:

1. THE MINIMUM RECOMMENDED SEPARATIONS BETWEEN TELECOMMUNICATIONS CONDUIT SYSTEMS AND OUTSIDE SURFACES OF FOREIGN STRUCTURES VARY IN ACCORDANCE WITH REGIONAL STANDARDS, CODES, AND REGULATIONS:
   a. 6" MIN. WHEN CROSSING PIPES (E.G., GAS, WATER, OIL)
   b. 12" MIN. WHEN PARALLEL TO PIPES (E.G., GAS, WATER, OIL)
   c. 3" MIN. CONCRETE FOREIGN CONDUIT (POWER OR OTHER)
   d. 4" MIN. MASONRY (POWER OR OTHER)
   e. 12" MIN. OF WELL-TAMPED EARTH (POWER OR OTHER)
2. THE TOP OF CONDUIT SHOULD BE LOCATED AT A SUFFICIENT DEPTH (NORMALLY 24"-30") BELOW SURFACE GRADE SO BOTH LIVE OR DYNAMIC AND DEAD (STATIC) OR EARTH LOADS CAN BE SUSTAINED BY THE CONDUIT STRUCTURE.

NOTES:

1. SAW CUT, TRENCH & BACKFILL FOR NEW CONDUITS. PATCH WALKWAY TO MATCH (E) SURROUNDING SURFACES. CARE SHALL BE TAKEN TO PROTECT EXISTING TREES. RESEED OR RESOD (E) DISTURBED PLANTED AREAS TO ARCHITECT'S SATISFACTION.
2. BASE MATERIAL TO BE REPLACED TO THE DEPTH OF EXISTING BASE AND COMPACTED TO A MIN. 95% RELATIVE COMPACTION. A.C. MAY BE SUBSTITUTED FOR BASE MATERIAL. WHEN USED AS BACKFILL, CLASS 100-E-100 P.C.C. MAY BE SUBSTITUTED FOR BASE MATERIAL.



NOTES:

1. ALL DUCT BANKS SHALL BE INSTALLED PRIOR TO POURING OF FOOTINGS. COORDINATE WITH STRUCTURAL & OTHER TRADES.
2. WHERE DUCT BANKS PASS BELOW FOOTING PROVIDE 6" MIN. VERTICAL CLEARANCE U.O.N.
3. WHERE DUCT BANKS PARALLEL FOOTING PROVIDE 18" MIN. LATERAL CLEARANCE U.O.N.

★ = REQUIRED SEPARATION SHALL BE:
12" MINIMUM BETWEEN LOW VOLTAGE & LINE VOLTAGE CONDUITS LIKE SYSTEMS REQUIRE 3" SEPARATION

1 TYPICAL TRENCH SECTION

NO SCALE

IDENTIFICATION STAMP
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APP: 02-123309 INC: 1
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SS ☑ FLS ☑ ACS ☑
DATE: 9/30/2025

AGD ARCHITECTURE | DESIGN
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AURUM CONSULTING ENGINEERS
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REVISIONS

REV #	REV DATE	REV DESCRIPTION

SEAL

REGISTERED PROFESSIONAL ENGINEER
NAJIB ANWARY
No. E21043
EXP. 3/31/27
ELECTRICAL
STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

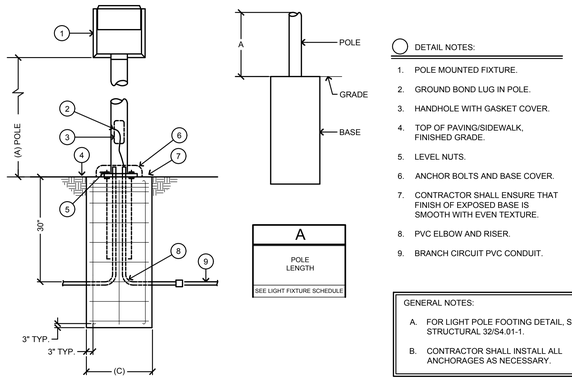
SHEET TITLE
ELECTRICAL DETAILS

PHASE DESCRIPTION
100% CD - DSA APPROVAL
INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: RT
PROJECT MANAGER: TP
JOB NUMBER: 791

SHEET NUMBER
E601-1

PLOT DATE: 3/21/2025 3:26:20 PM



DETAIL NOTES:

1. POLE MOUNTED FIXTURE.
2. GROUND BOND LUG IN POLE.
3. HANDHOLE WITH GASKET COVER.
4. TOP OF PAVING/SIDEWALK, FINISHED GRADE.
5. LEVEL NUTS.
6. ANCHOR BOLTS AND BASE COVER.
7. CONTRACTOR SHALL ENSURE THAT FINISH OF EXPOSED BASE IS SMOOTH WITH EVEN TEXTURE.
8. PVC ELBOW AND RISER.
9. BRANCH CIRCUIT PVC CONDUIT.

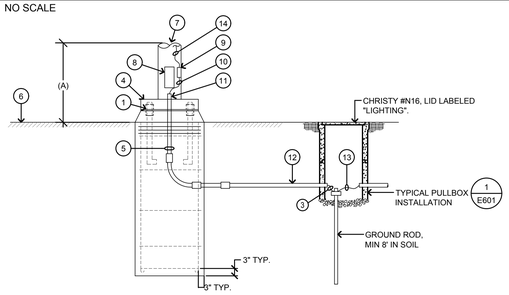
GENERAL NOTES:

A. FOR LIGHT POLE FOOTING DETAIL, SEE STRUCTURAL 32/S4.01-1.

B. CONTRACTOR SHALL INSTALL ALL ANCHORAGES AS NECESSARY.

7 POLE MOUNTED FIXTURE "XA" DETAIL

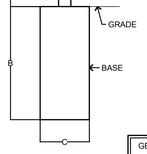
NO SCALE



DETAIL NOTES:

1. LEVELING NUTS.
2. CONCRETE FOOTING PER STRUCTURAL.
3. #8 COPPER GROUND FROM POLE TO GROUND ROD.
4. BASE COVER.
5. RIGID STEEL ELBOW AND CONDUIT. WRAP WITH PVC TAPE OVERLAPPED 50%.
6. FINISHED GRADE.
7. LUMINAIRE POLE.
8. HAND HOLE.
9. GROUNDING LUG.
10. GROUND CONDUCTOR.
11. BUSHING, ON CONDUIT(S), CAP BEFORE POURING CONCRETE.
12. PVC SCH 40 FROM RIGID STEEL ELBOWS TO PULLBOX.
13. CONNECT BRANCH CIRCUIT EQUIPMENT GROUNDING CONDUCTOR TO GROUND ROD.
14. #10 EQUIPMENT GROUNDING CONDUCTOR FROM POLE GROUND LUG TO LUMINAIRE.

A
POLE LENGTH
SEE LIGHT FIXTURE SCHEDULE



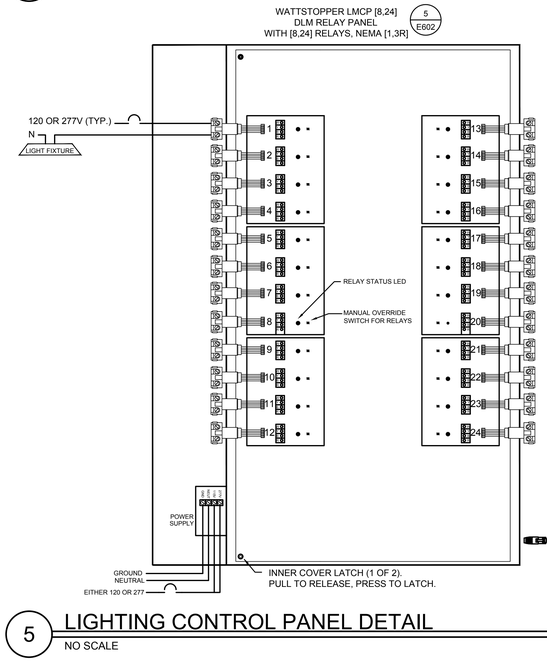
GENERAL NOTES:

A. FOR LIGHT POLE FOOTING DETAIL, SEE STRUCTURAL 32/S4.01-1

B. CONTRACTOR SHALL INSTALL ALL ANCHORAGES AS NECESSARY.

6 FLUSH POLE BASE "XP" DETAIL

NO SCALE



GENERAL NOTES:

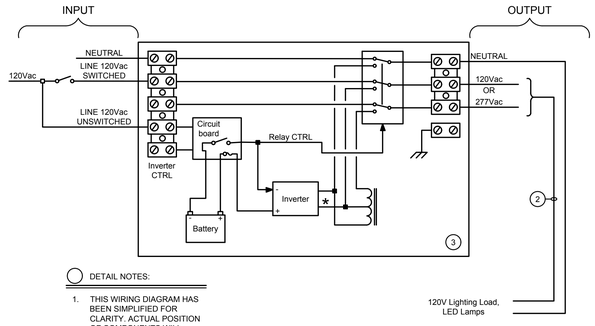
A. ALL PART NUMBERS ARE WATTSTOPPER, U.O.N.

B. EXTERIOR SCHEDULE (SET TIMER PER OWNER):
"EL" - ON AT DUSK, OFF AT SET TIME
"NL" - ON AT DUSK, OFF AT DAWN

C. INTERIOR SCHEDULE (SET TIME PER OWNER):
ON AT SET TIME, OFF AT SET TIME

5 LIGHTING CONTROL PANEL DETAIL

NO SCALE

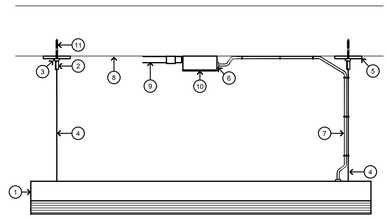


DETAIL NOTES:

1. THIS WIRING DIAGRAM HAS BEEN SIMPLIFIED FOR CLARITY. ACTUAL POSITION OF COMPONENTS WILL VARY.
2. CONNECT ONLY 120V LOADS.
3. EMERGI-LITE MINI-INVERTER SERIES MODEL EMIU-1000-4C.

4 EMERGENCY LIGHTING INVERTER

NO SCALE

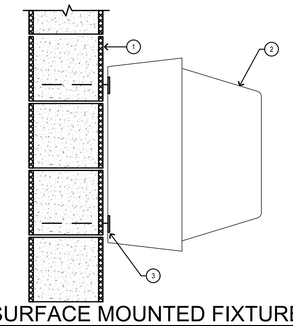


DETAIL NOTES:

1. LIGHT FIXTURE.
2. ¼" x 20 THREADED CABLE RETAINER BY MFGR.
3. SLIP RING AND SET SCREW BY MFGR.
4. 1/32" DIA. AIRCRAFT SAFETY CABLE BY MFGR., SECURE TO FIXT. SEE LIGHTING PLANS FOR QUANTITY AND LOCATION.
5. CANOPY.
6. STRAIN RELIEF.
7. SJT OR SO CORD.
8. WOOD BEAM.
9. SURFACE MOUNTED CONDUIT.
10. SURFACE MOUNTED J-BOX.
11. ¼" x 20 THREADED HANGER BOLT FOR WOOD CEILINGS. 1 ½" MINIMUM PENETRATION.

3 FIXTURE TYPE "A" MOUNTING DETAIL

NO SCALE

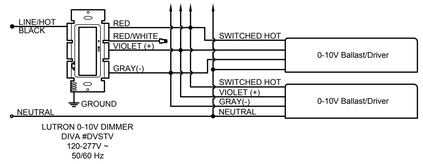


DETAIL NOTES:

1. BUILDING MASONRY (CMU) WALLS.
2. SURFACE MOUNTED FIXTURE. (15 LB. OR LESS)
3. ¼" DIA. STAINLESS STEEL KB-TZ2 ANCHOR W/ 3" NOMINAL EMBEDMENT, TYP. AT EA. MOUNTING HOLE (4 PLACES). INSTALL IN CONFORMANCE WITH ICC ESR 4561. SEE SHEET S1.03-1 FOR REQUIRED INSTALLATION TORQUE. ANCHORS SHALL BE LOCATED A MINIMUM OF 2" AWAY FROM ANY HEAD JOINT.

2 SURFACE MOUNTED FIXTURE DETAIL

NO SCALE



1 0-10V DIMMING WIRING DIAGRAM

NO SCALE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123309 INC: 1
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 9/30/2025

AGD
ARCHITECTURE | DESIGN

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REVISIONS

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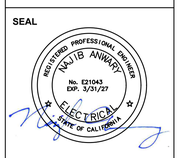
SEAL



PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

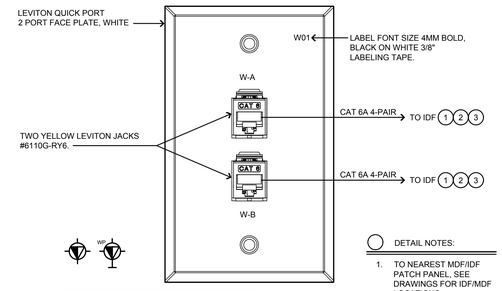
SHEET TITLE
ELECTRICAL DETAILS

PHASE DESCRIPTION
100% CD - DSA APPROVAL
INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: RT
PROJECT MANAGER: TP
JOB NUMBER: 791

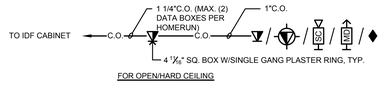
SHEET NUMBER
E602-1

PLOT DATE: 3/21/2025 3:26:20 PM



8 WIRELESS OUTLET

NO SCALE

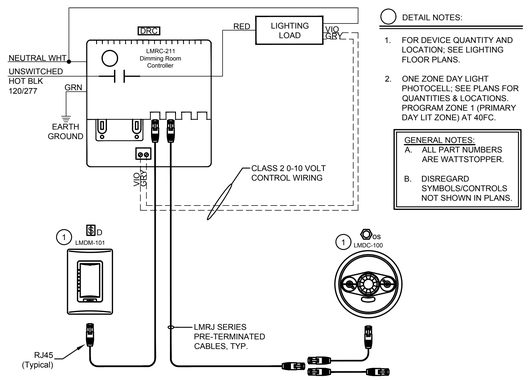


7 TELE/DATA OUTLET DETAIL

NO SCALE

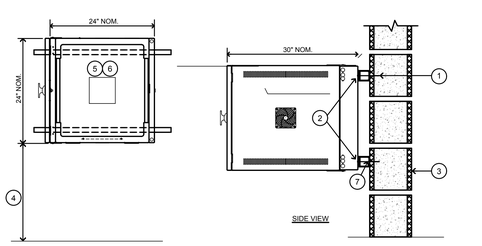
LMRC-211

1-RELAY 0-10V DIMMING CONTROLLER
Provides one (1) controllable switch-leg
with one (1) channel of 0-10V dimming



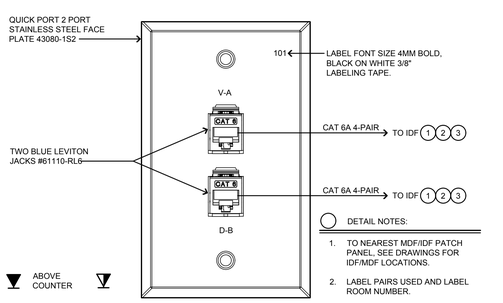
6 1-ZONE DIMMING LIGHTING CONTROLS

NO SCALE



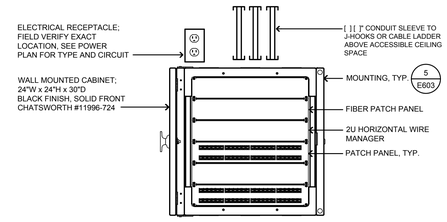
5 WALL CABINET MOUNTING DETAIL

NO SCALE



9 TYPICAL DATA OUTLET

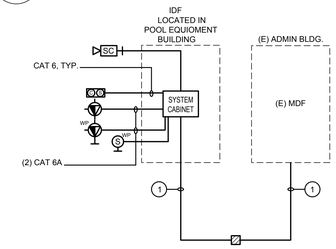
NO SCALE



GENERAL NOTES:

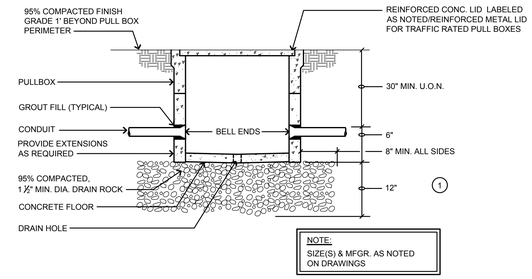
1. FIELD VERIFY EXACT LOCATION OF CABINET WITH IT DEPARTMENT BEFORE ROUGH-IN. MOUNT SO THAT CABINET DOOR CAN SWING FULLY OPEN.
2. PROVIDE ALL MISCELLANEOUS CONNECTORS, WIRE MANAGEMENT, SHELF BRACKETS, CABLE SPLICE KITS, MOUNTING HARDWARE, ETC. AS REQUIRED FOR A COMPLETE INSTALLATION.
3. PROVIDE PATCH PANELS FOR QUANTITY OF DATA OUTLETS IN PROJECT PLUS 20%.
4. LEAVE ADEQUATE CABLE LENGTH TO ALLOW DOOR TO SWING FULLY OPEN.
5. PROVIDE AND INSTALL #6 TO PANEL OR MAIN GROUND BUS BAR.

4 WALL CABINET DETAIL



3 DATA SYSTEMS RISER DIAGRAM

NO SCALE

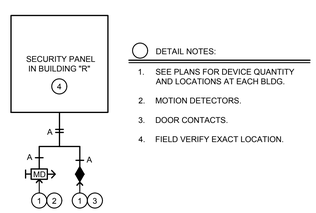


2 TYPICAL PULLBOX DETAIL

NO SCALE CLOSED BOTTOM

SIGNAL CABLE SCHEDULE

I.D.	USE	DESCRIPTION	REMARKS
A	INTRUSION	#16/4 CONDUCTOR	FROM IA PANEL TO KEYPAD



1 SECURITY RISER DIAGRAM

NO SCALE

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SS ☑ FLS ☑ ACS ☑
DATE: 9/30/2025

AGD ARCHITECTURE | DESIGN
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REVISIONS

REV #	REV DATE	REV DESCRIPTION

SEAL

REGISTERED PROFESSIONAL ENGINEER
KAVITA ANNAMALAI
No. E21043
EXP. 3/31/27
ELECTRICAL
STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
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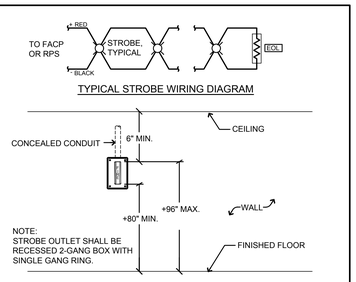
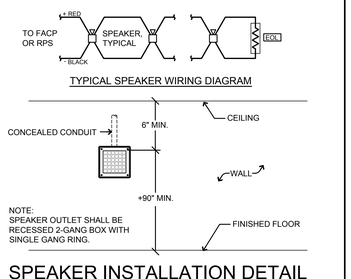


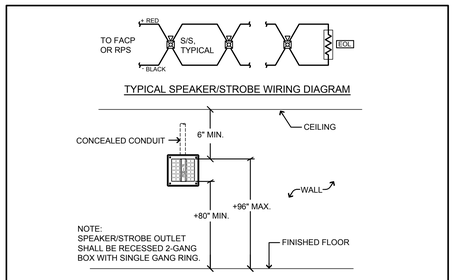
5 STROBE INSTALLATION DETAIL

NO SCALE



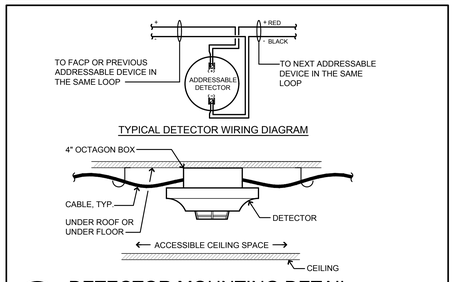
4 SPEAKER INSTALLATION DETAIL

NO SCALE



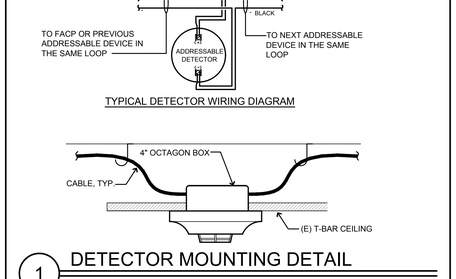
3 SPEAKER/STROBE INSTALLATION DETAIL

NO SCALE



2 DETECTOR MOUNTING DETAIL

NO SCALE (ABOVE CEILING)



1 DETECTOR MOUNTING DETAIL

NO SCALE

FIRE ALARM EQUIPMENT LIST

SYMBOL	DESCRIPTION AND MODEL NUMBER	MFGR'S PART No.	CSFM LISTING
(E) FACP	INTELLIGENT FIRE ALARM CONTROL PANEL WITH DEAD FRONT STEEL DOOR, GAMEWELL-FCI E3 SERIES CLASSIC WITH SIZE 'C' CABINET. PROVIDE AND INSTALL NEW INTEGRATED PM-9 POWER SUPPLY, INI-VGX VOICE GATEWAY NETWORK CARD, (1) AM-50-25 50W AMPLIFIER AND (4) FML-E3 FIBER CONNECTORS.	FACP-INCC-COMMAND CENTER	7165-1703:0125
INX	INTELLIGENT NETWORK TRANSPONDER WITH DEAD FRONT STEEL DOOR, GAMEWELL-FCI INX SERIES, SIZE 'C' CABINET WITH INTEGRATED PM-9 POWER SUPPLY, ILI-MB-E3 MOTHERBOARD WITH (2) ADDRESSABLE CIRCUITIS, INI-VGX VOICE GATEWAY NETWORK CARD AND (2) AM-50-25 50 WATTS AMPLIFIERS AND FML-E3 FIBER CONNECTOR FOR CONNECTION TO FACP.	INX-C	7165-1703:0125
LOC	FIRE ALARM LOCAL OPERATING CONSOLE WITH NETWORK TOUCHSCREEN GRAPHIC ANNUCIATOR (NGA) AND MICROPHONE, GAMEWELL-FCI E3 LOC SERIES.	LOC	7165-1703:0125
AMP	50 WATT, 25VRMS DIGITAL AMPLIFIER WITH CHARGING POWER SUPPLY AND 2 CLASS B OR 2 CLASS A OUTPUTS, GAMEWELL-FCI AM SERIES.	AM-50-25	7165-1703:0125
RPS	6.0A AUXILIARY POWER SUPPLY WITH 4 NAC OUTPUT CIRCUITS. GAMEWELL FCI POWER SUPPLY HPF SERIES.	HPF-24S6	7315-1637:0102
FML-E3	FIBER OPTIC MULTI-MODE LOOP MODULE. ALLOWS THE MULTI-MODE FIBER NETWORK BETWEEN NODES. ST STYLE CONNECTORS W/ A MAXIMUM ATTENUATION OF 30db W/ 9/125 MICROMETER CABLE. E3 SERIES.	FML-E3	7165-1703:0176
ASM-16	ADDRESSABLE SWITCH MODULE. CONFIGUARABLE SWITCH INPUT SUB-ASSEMBLY W/ 16 SWITCHES AND 48 STATUS LEDs. E3 SERIES.	ASM-16	7165-1703:0125
INI-VGX	INTELLIGENT NETWORK INTERFACE-VOICE GATEWAY, CLASS B SIGNALING LINE CIRCUIT, CAN SUPPORT UP TO 16 AOM-2SF, SIGNAL OUTPUT MODULES. INI-VG SERIES.	INI-VGX	7165-1703:0125
WP	WALL MOUNTED WEATHERPROOF FIRE ALARM/VOICE EVACUATION SPEAKER WITH VOLTAGE SETTING OF 70.7 VRMS AND POWER SETTINGS OF ¼, ½, 1 & 2 WATTS, SYSTEM SENSOR SPWK SERIES.	SPWK	7320-1653:0201
M	WALL MOUNTED MULTI-CANDELA SPEAKER-STROBE WITH FIELD SELECTABLE CANDELA SETTINGS OF 15, 30, 75, 95 & 177 CANDELA WITH VOLTAGE SETTING OF 70.7 VRMS AND POWER SETTINGS OF ¼, ½, 1 & 2 WATTS, SYSTEM SENSOR SPSWLED SERIES.	SPSWLED	7125-1653:0533
D	ADDRESSABLE PHOTO ELECTRIC FIRE ALARM SMOKE DETECTOR AND BASE, GAMEWELL VELOCITI SERIES 3.	ASD-PL3 B300-6	7272-1703:0501
H	ADDRESSABLE FIRE ALARM HEAT DETECTOR AND BASE, 135 DEG. FIXED TEMPERATURE, GAMEWELL-FCI VELOCITI SERIES 3. (DEVICES WITH "A" INDICATE ABOVE CEILING).	ATD-L3 B300-6	7270-1703:0502
M	ADDRESSABLE MONITOR MODULE, GAMEWELL-FCI VELOCITI AMM SERIES.	AMM-2IF	7300-1703:0107
C	ADDRESSABLE CONTROL MODULE, GAMEWELL-FCI VELOCITI AOM SERIES.	AOM-2SF	7300-1703:0102
EOL	END OF LINE DEVICE.		

FIRE ALARM GENERAL NOTES

1. WIRING MUST BE LISTED FOR USE AS REQUIRED BY TITLE 24/CEC, ARTICLE 760.
2. WIRE USED IN WET LOCATIONS SHALL BE OF AN APPROVED TYPE IN ACCORDANCE WITH 3-310-8, T24/CEC (I.E. THHW OR EQUAL).
3. UNDER GROUND AND EXTERIOR CONDUITS TO HAVE WATERTIGHT FITTINGS AND WIRES APPROVED FOR WET LOCATION.
4. ALL CONDUCTORS SHALL BE ROUTED IN CONDUIT UNLESS SPECIFICALLY NOTED OTHERWISE ON PLANS. MINIMUM CONDUIT SIZE SHALL BE 3/4."
5. THE CONDUIT AND WIRE SHOWN ON THESE PLANS ARE SHOWN DIAGRAMMATICALLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD TO SUIT FIELD CONDITIONS. "AS-BUILT" PLANS SHALL BE MAINTAINED AND BE PROVIDED AS REQUIRED BY THE PROJECT INSPECTOR OF RECORD.
6. PENETRATIONS OF FIRE RATED WALLS SHALL BE PROTECTED IN ACCORDANCE WITH CALIFORNIA BUILDING CODE, CHAPTER 7, TITLE 24. PROVIDE DETAILS OF THROUGH PENETRATION FIRE-STOP SYSTEMS FOR ALL PIPE/CABLE/CONDUIT PASSING THROUGH FIRE RATED WALLS/FLOORS REQUIRING PROTECTED OPENINGS.
7. ALL DEVICES SHALL BE "CSFM" LISTED.
8. EXTERIOR DEVICES SHALL BE LISTED FOR EXTERIOR USE BY "CSFM."
9. AUDIBLE ALARM PRODUCED BY "FACP" SHALL SOUND THE CALIFORNIA UNIFORM SIGNAL IN TEMPORAL MODE.
10. AUDIBLE FIRE ALARM SOUND LEVEL SHALL BE AT LEAST 15DBA ABOVE THE AVERAGE SOUND LEVEL.
11. AUDIBLE SIGNALS INTENDED FOR OPERATION IN THE PUBLIC SHALL HAVE A SOUND LEVEL OF NOT LESS THAN 75DBA AT 10 FEET OR MORE THAN 110DBA AT THE MINIMUM HEARING DISTANCES FROM THE AUDIBLE APPLIANCE.
12. WHERE VISUAL DEVICES ARE REQUIRED, VISUAL DEVICE SHOULD NOT EXCEED 2 FLASHES PER SECOND AND SHOULD NOT BE SLOWER THAN 1 FLASH EVERY SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELA. NO PLACE IN ANY ROOM SHALL BE MORE THAN 50 FEET FROM A DEVICE.
13. APPROVED BY THE "DIVISION OF THE STATE ARCHITECT/OFFICE OF REGULATION SERVICES." CONTRACTOR SHALL PROVIDE COPIES OF APPROVED PLANS TO THE PROJECT INSPECTOR OF RECORD PRIOR TO BEGINNING WORK. THE CONTRACTOR SHALL SUBMIT SHOP DRAWING TO ENGINEER PRIOR TO PURCHASE FOR REVIEW. THE FIRE PROTECTION SYSTEM SHALL NOT BE INSTALLED UNTIL SHOP DRAWINGS HAVE BEEN SUBMITTED TO AND RECEIVED BY THE ENGINEER OF RECORD.
14. FINAL ALARM TEST SHALL BE WITNESSED BY THE DSA INSPECTOR OF RECORD (IOR). BOTH THE DSA INSPECTOR OF RECORD (IOR) AND THE LOCAL FIRE AUTHORITY SHALL BE NOTIFIED OF DATE AND TIME OF FINAL FIRE ALARM TESTING BY THE FIRE ALARM CONTRACTOR. FIRE ALARM CONTRACTOR SHALL PROVIDE "RECORD OF COMPLETION" TO THE INSPECTOR OF RECORD (IOR)/DSA AFTER COMPLETION OF OPERATIONAL ACCEPTANCE TEST.
15. POWER SERVICE SHALL BE ON A DEDICATED, 120V BRANCH CIRCUIT, WITH A RED MARKING AND IDENTIFIED AS "FIRE ALARM CIRCUIT CONTROL."
16. AUTOMATIC FIRE ALARM SYSTEM SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72 AS AMENDED BY CFC CHAPTER 80. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX OR UUIS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011.

SYMBOLS & ABBREVIATIONS

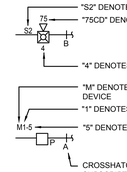
SYMBOLS

- CONDUIT - CONCEALED IN WALLS OR CEILING.
- CONDUIT - IN OR BELOW FLOOR: 3/4"C MIN.
- CONDUIT CONTINUATION.
- 201 — ROOM NUMBER.
- 2 — SHEET NOTE REFERENCE SYMBOL; SEE ASSOCIATED NOTE ON SAME SHEET.
- 2 / E1 — DETAIL OR SECTION DESIGNATION.

ABBREVIATIONS

ARCH.	ARCHITECT	FSD	FIRE SMOKE DAMPER
AWG	AMERICAN WIRE GAUGE	IDC	INITIATING DEVICE CIRCUITS
BKR	BREAKER	(N)	NEW
C	CONDUIT	NAC	NOTIFICATION APPLIANCE CIRCUITS
CB	CIRCUIT BREAKER	NIC	NOT IN CONTRACT
CKT	CIRCUIT	NO	NUMBER
CLG	CEILING	SLC	SIGNALING LINE CIRCUITS
(E)	EXISTING	TYP	TYPICAL
EOL	END OF LINE	UON	UNLESS OTHERWISE NOTED
FA	FIRE ALARM	WP	WEATHERPROOF
FACP	FIRE ALARM CONTROL PANEL		
FBO	FURNISHED BY OTHERS		

TYPICAL ZONE NOMENCLATURE



PROJECT DESCRIPTION

EXTEND EXISTING ADDRESSABLE FIRE ALARM SYSTEM TO REMODELED POOL AREA/SPACES. ADDITION OF LOCAL OPERATOR CONSOLE TO ADMIN BUILDING "B".

SYSTEM DESCRIPTION:
SLC = CLASS B / STYLE 4
IDC = CLASS B / STYLE B
NAC = CLASS B / STYLE Y

DESIGN BY: NAJIB ANWARY P.E.

FIRE ALARM SYSTEM OPERATIONAL MATRIX

CAUSE	EFFECT: ALARM AT FACP	ALARM AT ANNUNCIATOR	ALARM AT OFF SITE REPORTING	ACTUATE A.F. PANEL	ACTUATE A.F. BELLS	ACTUATE VISUALS	ACTUATE AUDIO/VISUALS	TROUBLE AT FACP	TROUBLE AT ANNUNCIATOR	TROUBLE AT OFF SITE REPORTING	SUPERVISORY AT FACP	SUPERVISORY AT ANNUNCIATOR	SUPERVISORY AT OFF SITE REPORTING	FAN SHUT DOWN	RECALL ELEVATORS	ACTIVATE A.F. BELLS	ACTIVATE VISUALS	ACTIVATE AUDIO/VISUALS	ELEVATOR RECALL	FAN SHUT DOWN	RELEASE FIRE SMOKE DAMPERS	REMARKS
SMOKE DETECTORS	•	•	•	•	•	•	•							•							•	•	
HEAT DETECTORS	•	•	•	•	•	•	•							•							•	•	
FLOW SWITCH	•	•	•	•	•	•	•							•							•	•	
TAMPER SWITCH											•	•	•										
SIGNAL SILENCE														•									
SYSTEM RESET														•	•	•	•						
AC POWER FAILURE								•	•	•													
TROUBLE (OPEN, SHORTS, GROUNDS) ON INITIATION OR SIGNAL CIRCUITS								•	•	•													

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123309 INC: 1
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 9/30/2025

AGD ARCHITECTURE | DESIGN

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REVISIONS

REV #	REV DATE	REV DESCRIPTION

SEAL

REGISTERED PROFESSIONAL ENGINEER — NAJIB ANWARY — No. E21043 EXP. 3/31/27 — ELECTRICAL — STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE
SYMBOLS & ABBREVIATIONS, EQUIPMENT LIST, OPERATIONAL MATRIX, CALCS, DETAILS & NOTES.

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: RT
PROJECT MANAGER: TP
JOB NUMBER: 791

SHEET NUMBER
FA001-1

PLOT DATE: 3/21/2025 3:26:20 PM

BATTERY CALCS

(E) INTELLIGENT ADDRESSABLE FIRE ALARM CONTROL PANEL "FACP"

QTY	PRODUCT ID	DESCRIPTION	STANDBY EACH	STANDBY TOTAL	ALARM EACH	ALARM TOTAL
1	(E) PM-9	POWER SUPPLY	0.0500	0.0500	0.0500	0.0500
1	(E) AM-50-25	AMPLIFIER 50 WATT, 25V	0.0860	0.0860	2.2060	2.2060
2	FML-E3	FIBER OPTIC CONNECTOR	0.0530	0.1060	0.0530	0.1060
1	LOC-E3	LOCAL OPERATING CONSOLE	0.0000	0.0000	0.0000	0.0000
		PANEL STANDBY CURRENT:		0.2420		
		PANEL ALARM CURRENT:				2.3620

FIELD DEVICES

QTY	PRODUCT ID	DESCRIPTION	STANDBY EACH	STANDBY TOTAL	ALARM EACH	ALARM TOTAL
2	ASD-PL3	ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR	0.0002	0.0004	0.0020	0.0040
2	ASD-L3	ADDRESSABLE THERMAL HEAT DETECTOR 135 DEGREES	0.0002	0.0004	0.0020	0.0040
1	AMM-2IF	ADDRESSABLE MONITOR MODULE	0.0008	0.0008	0.0010	0.0010
1	AOM-2SF	ADDRESSABLE CONTROL MODULE	0.0038	0.0038	0.0065	0.0065

TOTAL SYSTEM CURRENT

DESCRIPTION	STANDBY	ALARM
CONTROL PANEL	0.2420	2.3620
FIELD DEVICES	0.0053	0.0155
TOTAL STANDBY CURRENT	0.2473	
X 24 HOUR STANDBY	5.9352	
TOTAL ALARM CURRENT		2.3775
15 MINUTES OF ALARM (X .25)		0.5944
TOTAL BATTERY REQUIREMENT		6.5296
SAFETY MARGIN (25%)		8.1620
BATTERY SUPPLIED (2) 12V		55AH

FIRE ALARM CONTROL SUB-PANEL WITH VOICE EVAC INX

QTY	PRODUCT ID	DESCRIPTION	STANDBY EACH	STANDBY TOTAL	ALARM EACH	ALARM TOTAL
1	INI-VGX	VOICE NETWORK CARD	0.1500	0.1500	0.1500	0.1500
1	PM-9	POWER SUPPLY	0.0000	0.0000	0.0500	0.0500
1	FML-E3	FIBER TERMINATION	0.0530	0.0530	0.0530	0.0530
1	AM-50	50 WATTS AMPLIFIER	0.0860	0.0860	2.2060	2.2060
1	AM-50-1	DIGITAL AUDIO AMPLIFIER (S1)	0.0600	0.0600	0.2000	0.2000
		PANEL STANDBY CURRENT		0.3490		
		PANEL ALARM CURRENT				2.6590

DESCRIPTION	STANDBY	ALARM
CONTROL PANEL	0.3490	2.6590
FIELD DEVICES	0.0000	0.0000
TOTAL STANDBY CURRENT	0.3490	
X 24 HOUR STANDBY	8.3760	
TOTAL ALARM CURRENT		2.6590
15 MINUTES OF ALARM (X .25)		0.6648
TOTAL BATTERY REQUIREMENT		9.0408
SAFETY MARGIN (25%)		11.3005
BATTERY TO BE SUPPLIED		**(2) 12V 26AH**

REMOTE POWER SUPPLY "RPS-1"

QTY	MODEL No.	DEVICE DESCRIPTION	STANDBY EACH	STANDBY TOTAL	ALARM EACH	ALARM TOTAL
1	HPF-IPS6/10	GAMEWELL REMOTE POWER SUPPLY	0.1390	0.1390	0.1570	0.1570
1	V1	VISUAL CIRCUIT #1	0.0000	0.0000	0.0860	0.0860
		PANEL STANDBY CURRENT		0.1390		
		PANEL ALARM CURRENT				0.2430

TOTAL SYSTEM CURRENT

DESCRIPTION	STANDBY	ALARM
TOTAL STANDBY CURRENT (A)	0.1390	
X 24 HOUR STANDBY	3.3360	
TOTAL ALARM CURRENT (B)		0.2430
15 MINUTES OF ALARM (X .25)		0.0608
TOTAL BATTERY REQUIREMENT (A+B)		3.3968
SAFETY MARGIN (25%)		4.2459
BATTERY SUPPLIED (2) 12V		7AH

VOLTAGE DROP CALCS

AMPLIFIER WATTAGE CALCULATION FOR AM-50

QTY	MODEL No.	DEVICE DESCRIPTION	WATTS EACH
1	AM-50	50 WATT GAMEWELL DIGITAL AUDIO AMPLIFIER	50.0000
1	S1	WATTAGE OF SPEAKERS CONNECTED TO THIS CIRCUIT	5.0000
TOTAL WATTAGE AVAILABLE			45.0000

SPEAKER CIRCUIT No.S3

Nominal Speaker Voltage				25			
Minimum Device Voltage				20			
Total Circuit Current in amps			0.200		Wire	OHM's	
Total Circuit Power			5.000		Gauge	Per 1000	
Distance from source to 1st device				50	14	3.07	
Wire Gauge for balance of circuit					14	3.07	
	from	Calculated			Voltage		
Device Number	Device Power	previous device	Current	Device	Drop from source	Percent Drop	
Device 1	0.500	20	0.020	24.98	0.025	0.10%	
Device 2	2.000	20	0.080	24.95	0.047	0.19%	
Device 3	2.000	45	0.080	24.93	0.074	0.30%	
Device 4	0.500	25	0.020	24.92	0.077	0.31%	
END			0.000	24.92	0.077	0.31%	
END			0.000	24.92	0.077	0.31%	
END			0.000	24.92	0.077	0.31%	
END			0.000	24.92	0.077	0.31%	
END			0.000	24.92	0.077	0.31%	
END			0.000	24.92	0.077	0.31%	
END			0.000	24.92	0.077	0.31%	
END			0.000	24.92	0.077	0.31%	
END			0.000	24.92	0.077	0.31%	
END			0.000	24.92	0.077	0.31%	
END			0.000	24.92	0.077	0.31%	
END			0.000	24.92	0.077	0.31%	
END			0.000	24.92	0.077	0.31%	
END			0.000	24.92	0.077	0.31%	
Totals	**5.000**	110		End of Line Voltage		24.92	
Point to Point Method			**End of Line Method**			**Load Centering Method**	
CIRCUIT IS WITHIN LIMITS			**CIRCUIT IS WITHIN LIMITS**			**CIRCUIT IS WITHIN LIMITS**	

Totals Current	Distance	Voltage Drop	Totals Current	Distance	Voltage Drop	Totals Current	Distance	Voltage Drop
0.200	110	0.08	0.200	110	0.135	0.200	110	0.068
End of Line Voltage		24.92	End of Line Voltage		24.86	End of Line Voltage		24.93
Percent Drop		0.31%	Percent Drop		0.54%	Percent Drop		0.27%

VOLTAGE DROP (VD) CALCULATION - VISUAL CIRCUIT No. V1

DEVICE #	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
GAUGE WIRE	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT.)	20	70								
AMPS OF DEVICE	0.043	0.043								
TOTAL AMPS@DEV.	0.086	0.043	0	0	0	0	0	0	0	0
VOLT. DROP @ DEV.	0.006	0.01	0	0	0	0	0	0	0	0

DEVICE #	11th	12th	13th	14th	15th	16th	17th	18th	19th	20th
GAUGE WIRE	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT.)										
AMPS OF DEVICE										
TOTAL AMPS@DEV.	0	0	0	0	0	0	0	0	0	0
VOLT. DROP @ DEV.	0	0	0	0	0	0	0	0	0	0

TOTAL CIRCUIT AMPS =	**0.086**			WIRE SIZE	RESIS. IN FT.	CIRC. MILS		FORMULA	
TOTAL VOLT DROP =	**0.016**			10	1.29	10380		I * FEET * 21.6	
				12	2.01	6530		C.M.	
CKT VOLTAGE =	**20.4**			14	3.19	4110			
				16	5.08	2580			
% VOLTAGE DROP =	**0.1%**								

CABLE LEGEND

TYPE A = DENOTES INITIATING DETECTION CIRCUITS (SMOKE DETECTOR, HEAT DETECTOR, ETC.) UNLESS OTHERWISE NOTED, PROVIDE (1) #14 TWISTED-UNSHIELDED PAIR. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

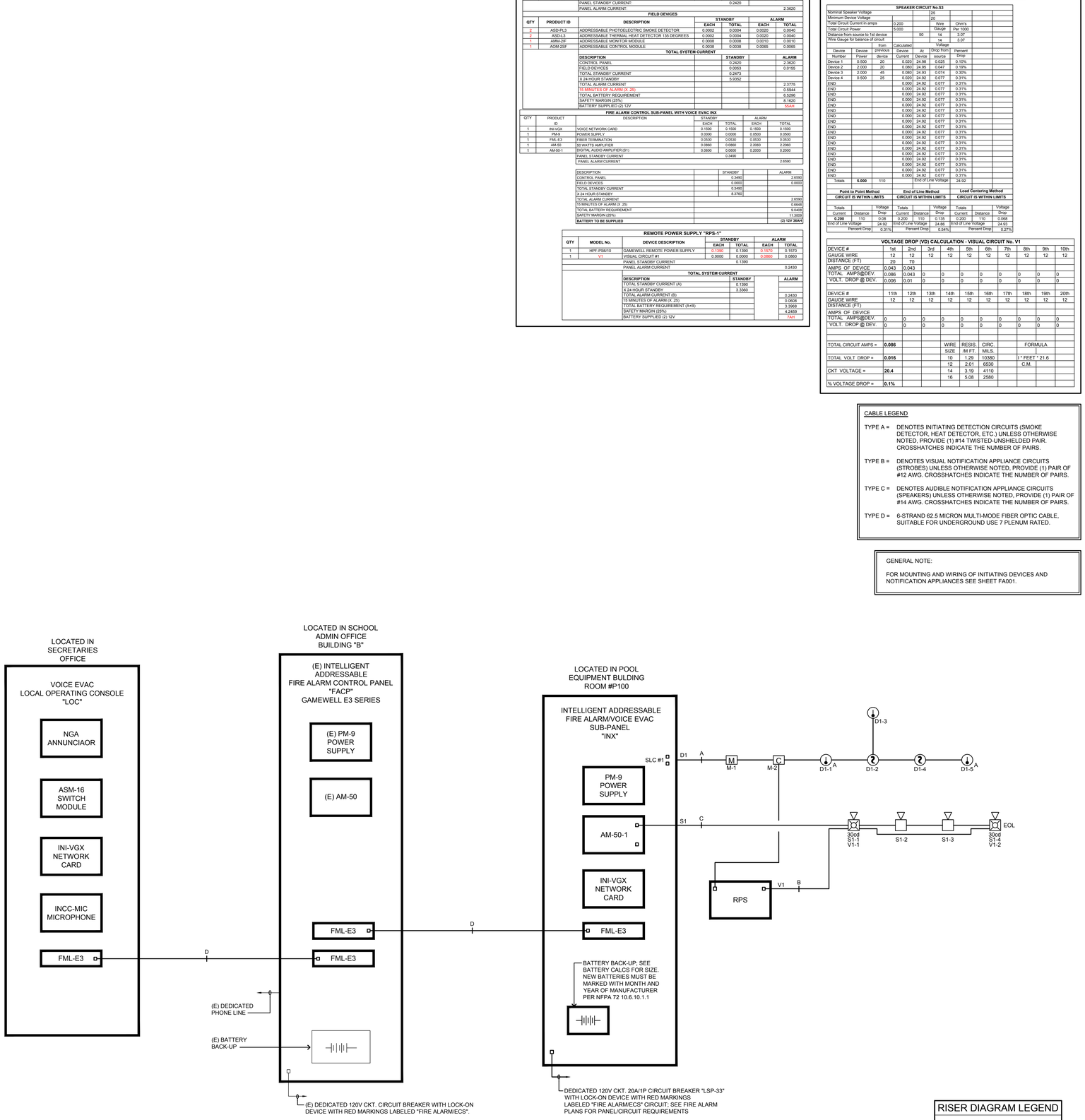
TYPE B = DENOTES VISUAL NOTIFICATION APPLIANCE CIRCUITS (STROBES) UNLESS OTHERWISE NOTED, PROVIDE (1) PAIR OF #12 AWG. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

TYPE C = DENOTES AUDIBLE NOTIFICATION APPLIANCE CIRCUITS (SPEAKERS) UNLESS OTHERWISE NOTED, PROVIDE (1) PAIR OF #14 AWG. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

TYPE D = 6-STRAND 62.5 MICRON MULTI-MODE FIBER OPTIC CABLE, SUITABLE FOR UNDERGROUND USE 7 PLENUM RATED.

GENERAL NOTE:

FOR MOUNTING AND WIRING OF INITIATING DEVICES AND NOTIFICATION APPLIANCES SEE SHEET FA001.



RISER DIAGRAM LEGEND

(EXISTING)

(NEW)

1 FIRE ALARM RISER DIAGRAM

NO SCALE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123309 INC: 1
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 9/30/2025

AGD ARCHITECTURE | DESIGN

ANDREW GOODWIN DESIGNS
1238 MONTEREY STREET
SAN LUIS OBISPO, CA 93422
t: (805) 439-1611
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AURUM CONSULTING ENGINEERS MONTEREY BAY, INC.

Project No. 24-160.00

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REVISIONS

REV #	REV DATE	REV DESCRIPTION

SEAL

REGISTERED PROFESSIONAL ENGINEER — MATTB ANNAWY — No. E21043 EXP. 3/31/27 — ELECTRICAL — STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE
FIRE ALARM RISER DIAGRAM, BATTERY & VOLTAGE DROP CALCULATIONS

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: RT
PROJECT MANAGER: TP
JOB NUMBER: 791
SHEET NUMBER
FA101-1

PLOT DATE: 3/21/2025 3:26:20 PM

SHEET NOTES

1. PROVIDE & INSTALL CHRISTY #B3048 TRAFFIC RATED IN-GRADE PULL BOX LID LABELED "SYSTEMS".
2. INSTALL 18" SQ. x 6" DEEP NEMA 3R PULLCAN UP HIGH ON BUILDING WALL.
3. NEW FIRE ALARM CABLES IN EXISTING CONDUIT.
4. PROVIDE & INSTALL CHRISTY #N30 IN-GRADE PULL BOX LID LABELED "FIRE ALARM".
5. INSTALL 24" SQ. x 6" DEEP NEMA 3R PULLCAN UP HIGH ON BUILDING WALL.
6. SEE FA401 FOR CONTINUATION.

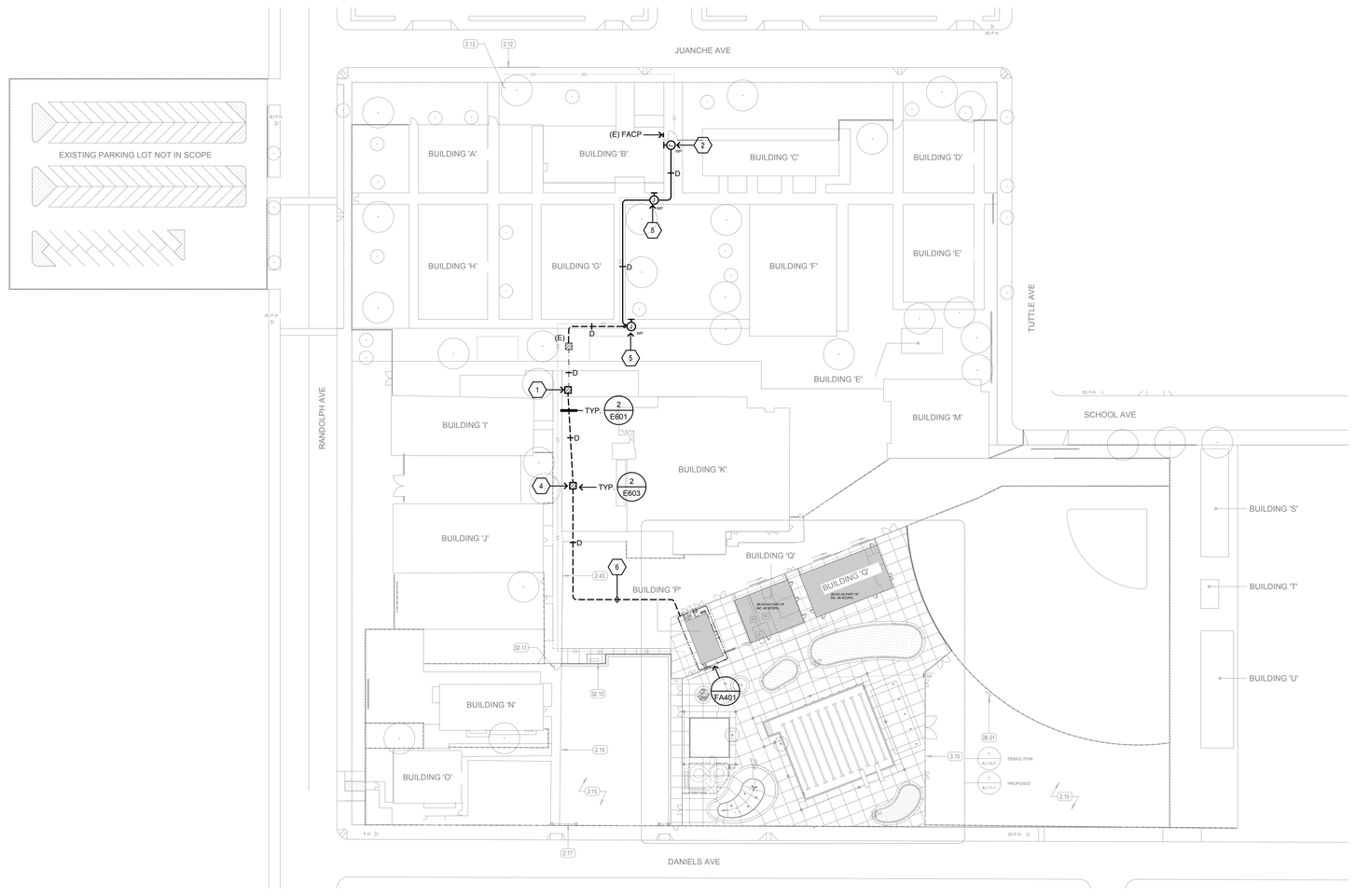
NOTES:

A. CONTRACTOR SHALL LOCATE ALL (E) UNDERGROUND UTILITIES PRIOR TO TRENCHING AND TAKE CAUTION TO AVOID DAMAGE DURING TRENCHING. HAND TRENCH IF NECESSARY. CONTRACTOR SHALL MAKE ALL REPAIRS TO DAMAGED UTILITIES AT NO CHARGE TO OWNER.

B. ALL WIRING FOR SITE LIGHTING SHALL BE #10 AWG MINIMUM, U.O.N.

CABLE LEGEND

TYPE D = 6-STRAND 62.5 MICRON MULTI-MODE FIBER OPTIC CABLE, SUITABLE FOR UNDERGROUND USE & PLENUM RATED.



SCALE: 1"=50'-0"

NORTH

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123309 INC: 1
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 9/30/2025

AGD ARCHITECTURE | DESIGN

ANDREW GOODWIN DESIGNS
1238 MONTEREY STREET
SAN LUIS OBISPO, CA 93422
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AURUM CONSULTING ENGINEERS MONTEREY BAY, INC.
Project No. 24-160.00
404 W. Franklin St. • Suite 100 • Monterey, CA 93940
T.831.646.3330 • F.831.646.3336 • www.acemb.com

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REVISIONS

REV #	REV DATE	REV DESCRIPTION

SEAL

REGISTERED PROFESSIONAL ENGINEER
NAJIB ANWARY
No. E21043
EXP. 3/31/27
ELECTRICAL
STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE
FIRE ALARM SITE PLAN

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: RT
PROJECT MANAGER: TP
JOB NUMBER: 791

SHEET NUMBER
FA201-1

PLOT DATE: 3/21/2025 3:26:20 PM

SHEET NOTES

1. MOUNT TO STRUCTURE ABOVE CEILING U.O.N.
2. SEE FA202 FOR CONTINUATION.
3. INSTALL 8" SQ. x 4" DEEP STUP NEMA 3R PULLCAN UP HIGH ON BUILDING WALL.
4. HOME RUN TO INTELLIGENT NETWORK TRANSPONDER "INX" AND REMOTE POWER SUPPLY "RPS".
5. PROVIDE & INSTALL ENGRAVED LAMICOID READING "END OF LINE".

CABLE LEGEND

TYPE A = DENOTES INITIATING DETECTION CIRCUITS (SMOKE DETECTOR, HEAT DETECTOR, ETC.) UNLESS OTHERWISE NOTED, PROVIDE (1) #14 TWISTED-UNSHIELDED PAIR. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

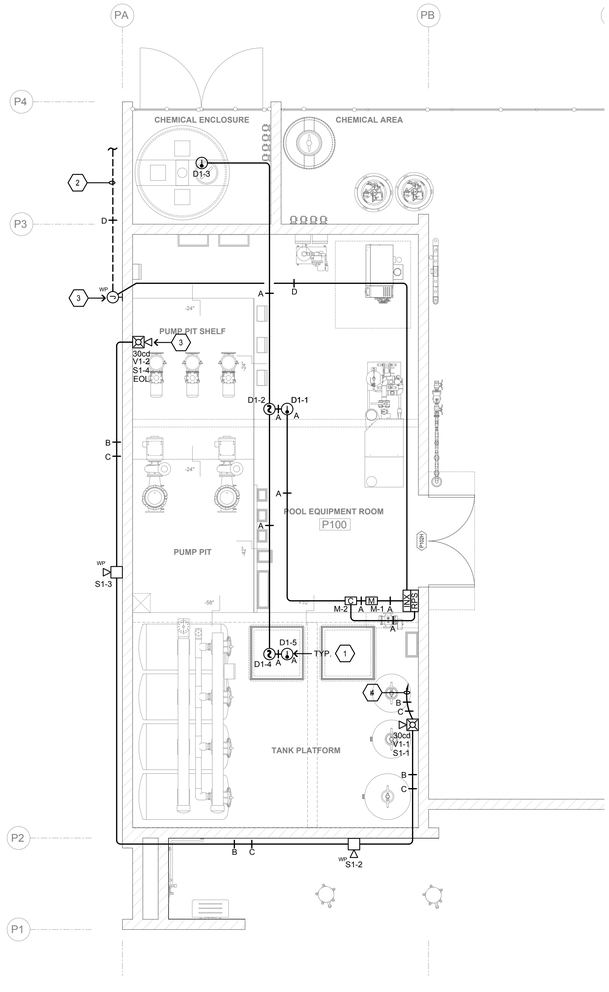
TYPE B = DENOTES VISUAL NOTIFICATION APPLIANCE CIRCUITS (STROBES) UNLESS OTHERWISE NOTED, PROVIDE (1) PAIR OF #12 AWG. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

TYPE C = DENOTES AUDIBLE NOTIFICATION APPLIANCE CIRCUITS (SPEAKERS) UNLESS OTHERWISE NOTED, PROVIDE (1) PAIR OF #14 AWG. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

TYPE D = 6-STRAND 62.5 MICRON MULTI-MODE FIBER OPTIC CABLE, SUITABLE FOR UNDERGROUND USE 7 PLENUM RATED.

GENERAL NOTE:

FOR MOUNTING AND WIRING OF INITIATING DEVICES AND NOTIFICATION APPLIANCES SEE SHEET FA001.



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

NORTH

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STATE OF CALIFORNIA

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AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

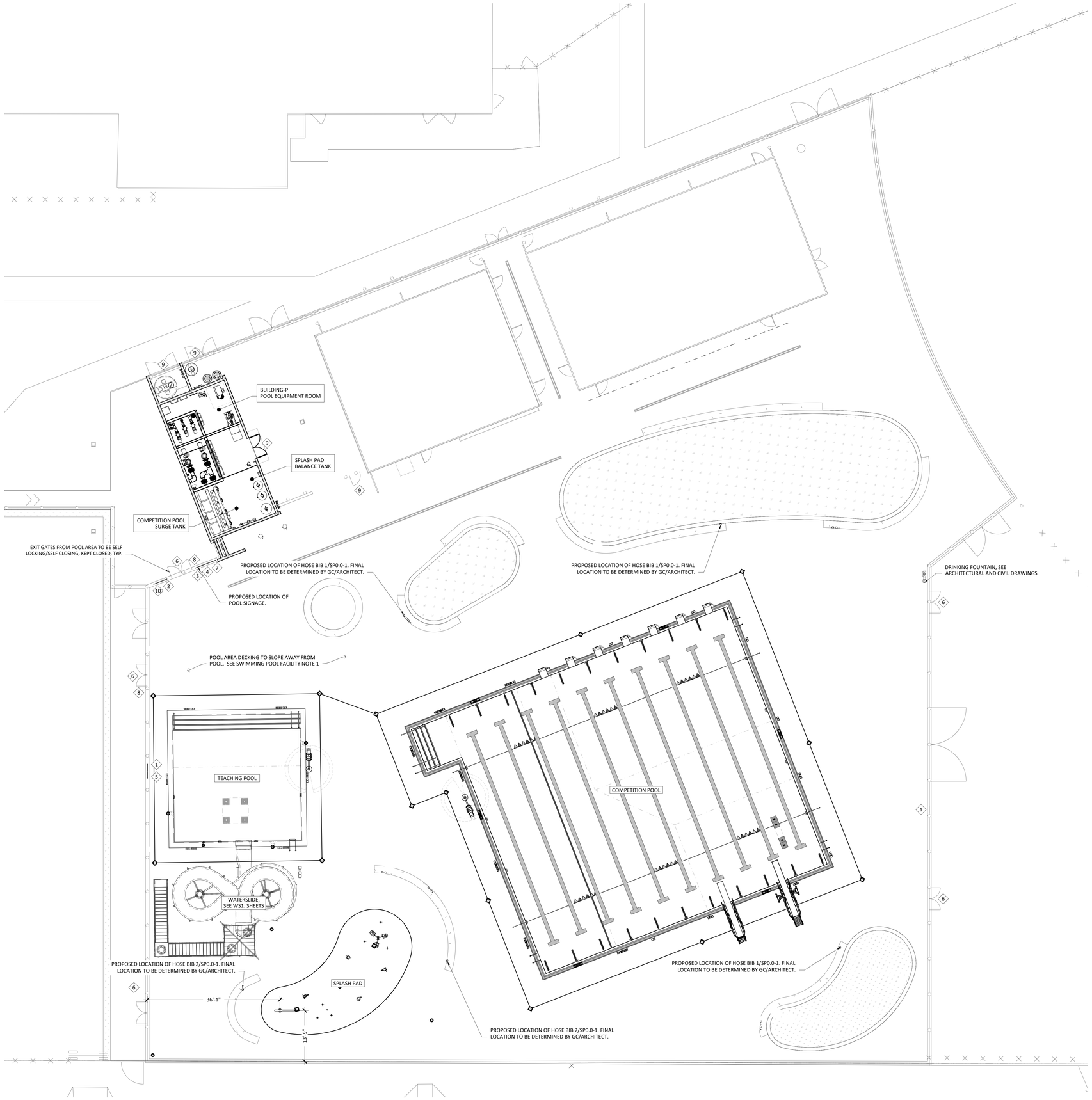
SHEET TITLE
BUILDING P - FIRE ALARM PLAN

PHASE DESCRIPTION
100% CD - DSA APPROVAL
INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: RT
PROJECT MANAGER: TP
JOB NUMBER: 791

SHEET NUMBER
FA401-1

PLOT DATE: 3/21/2025 3:26:20 PM



SWIMMING POOL SIGNAGE PLAN
3/32" = 1'-0"
3

GENERAL NOTES:

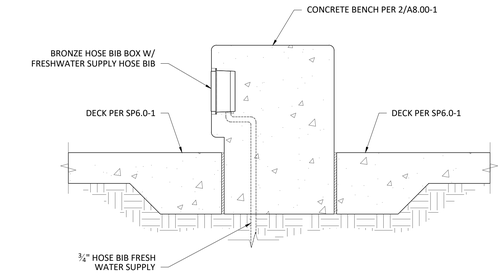
1. ALL WORK SHALL CONFORM TO CBC 2022 / IBC 2021 EDITION AND ALL AMENDMENTS THERETO BY THE LOCAL AUTHORITIES, ESPECIALLY CBC AMENDMENTS.
2. ALL PLAN DIMENSIONS SHALL BE VERIFIED PRIOR TO THE START OF WORK IN ACCORDANCE WITH AS-BUILT AND/OR IN-FIELD CONDITIONS. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER.
3. ANY SUBSTITUTIONS OR ALTERNATE DETAILS SHALL BE REVIEWED BY THE ARCHITECT/ENGINEER AND APPROVED BY THE DSA. SUCH REVIEW WILL REQUIRE A TIME AND MATERIALS CONTRACT TO BE SET UP WITH THE GENERAL CONTRACTOR WITH NO GUARANTEE THAT THE SUBSTITUTION WILL BE ALLOWED.

INTERPRETATION OF DRAWINGS & SPECIFICATIONS

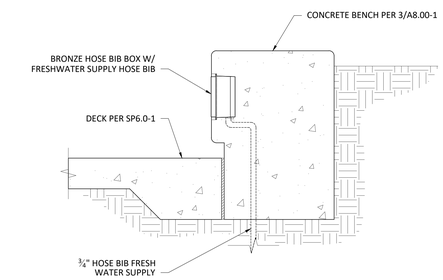
1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS WITH PROJECT DOCUMENTS PRIOR TO COMMENCING ANY WORK.
2. DO NOT SCALE DRAWINGS. CONTACT THE ENGINEER FOR ANY DIMENSIONS NOT SHOWN.
3. WHEN PROVIDED, WRITTEN SPECIFICATIONS FOR THIS PROJECT ARE ARRANGED IN SEVERAL SECTIONS, BUT SUCH SEPARATION SHALL NOT BE CONSIDERED AS THE LIMITS OF THE WORK REQUIRED OF ANY SEPARATE TRADE. THE TERMS AND CONDITIONS OF SUCH LIMITATIONS ARE WHOLLY BETWEEN THE CONTRACTOR AND ITS SUBCONTRACTORS.
4. IN GENERAL, THE WORKING DETAILS WILL INDICATE DIMENSIONS, POSITION AND TYPE OF CONSTRUCTION. SPECIFICATIONS WILL INDICATE QUALITIES AND METHODS. ANY WORK INDICATED ON THE WORKING DETAILS AND NOT MENTIONED IN SPECIFICATIONS, OR VICE VERSA, SHALL BE FURNISHED AS THOUGH FULLY SET FORTH IN BOTH. WORK NOT PARTICULARLY DETAILED, MARKED OR SPECIFIED, SHALL BE THE SAME AS SIMILAR PARTS THAT ARE DETAILED, MARKED OR SPECIFIED. IF CONFLICTS OCCUR ON DRAWINGS AND/OR SPECIFICATIONS, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
5. SHOULD A CONFLICT APPEAR IN THE WORKING DETAILS OR SPECIFICATIONS OR IN WORK DONE BY OTHERS AFFECTING THIS WORK, THE CONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO THE ENGINEER IN DUE TIME SO AS NOT TO AFFECT THE CONSTRUCTION SCHEDULE. IF THE CONTRACTOR PROCEEDS WITH THE WORK SO AFFECTED WITHOUT HAVING GIVEN SUCH WRITTEN NOTICE AND WITHOUT RECEIVING THE NECESSARY INSTRUCTIONS IN WRITING FROM THE ENGINEER, THEN THE CONTRACTOR SHALL HAVE NO VALID CLAIM AGAINST THE OWNER FOR THE COST OF SO PROCEEDING AND SHALL MAKE GOOD ANY RESULTING DAMAGE OR DEFECT. NO VERBAL APPROVAL, DECISION, OR INSTRUCTION SHALL BE VALID OR BE THE BASIS FOR ANY CLAIM AGAINST THE OWNER, ITS OFFICERS, EMPLOYEES OR AGENTS. THE FOREGOING INCLUDES TYPICAL ERRORS IN THE SPECIFICATIONS OR NOTATIONAL ERRORS IN THE WORKING DETAILS WHERE THE INTERPRETATION IS DOUBTFUL OR WHERE THE ERROR IS SUFFICIENTLY APPARENT AS TO PLACE A REASONABLY PRUDENT CONTRACTOR ON NOTICE THAT, SHOULD THEY ELECT TO PROCEED, THEY ARE DOING SO AT THEIR OWN RISK.
6. IN THE CASE OF A CONFLICT BETWEEN DESIGN DRAWINGS AND SPECIFICATIONS, THE MORE RESTRICTIVE CONDITION SHALL TAKE PRECEDENCE UNLESS WRITTEN APPROVAL HAS BEEN GIVEN FOR THE LESS RESTRICTIVE.
7. WHERE NO SPECIFIC DETAIL IS SHOWN, THE CONSTRUCTION SHALL BE IDENTICAL OR SIMILAR TO THAT INDICATED FOR LIKE CASES OF CONSTRUCTION ON THIS PROJECT. DRAWINGS ARE INTENDED TO BE USED AS AN ENTIRE SET. REFER TO THE SHEET INDEX AND NOTIFY THE ENGINEER IF ANY SHEETS ARE NOT INCLUDED. SHOULD THERE BE ANY QUESTION, CONTACT THE ENGINEER PRIOR TO PROCEEDING.

SWIMMING POOL SIGNAGE KEYNOTES

KEY	DESCRIPTION
1	THE POOL USER CAPACITY SHALL BE BASED ON ONE USER FOR EVERY 20 SQUARE FEET OF WATER SURFACE AREA. POOL USER CAPACITY SIGN SHALL BE POSTED WITH MINIMUM 4 INCH LETTERS THAT READS: "MAXIMUM BATHER CAPACITY: XX PERSONS" (SEE POOL DESIGN DATA FOR NUMBER OF BATHERS). SEE 1/SP0.1.
2	THE EMERGENCY TELEPHONE NUMBER SHALL BE POSTED WITH MINIMUM 4 INCH LETTERS THAT READS: "9-1-1". THE NUMBER OF THE NEAREST EMERGENCY SERVICES AND THE NAME AND STREET ADDRESS OF THE POOL FACILITY SHALL BE POSTED WITH A MINIMUM 1 INCH LETTERS. SEE 2/SP0.1.
3	AN ILLUSTRATED DIAGRAM SHALL BE POSTED WITH MINIMUM 1/4 INCH LETTERS OF ARTIFICIAL RESPIRATION AND CPR PROCEDURES. SEE 5/SP0.1.
4	WHERE NO LIFEGUARD SERVICE IS PROVIDED, A WARNING SIGN SHALL BE POSTED WITH MINIMUM 4 INCH LETTERS THAT READS: "WARNING: NO LIFEGUARD ON DUTY" ADDITIONALLY THE SIGN SHALL STATE IN LETTERS AT LEAST 1 INCH IN HEIGHT: "CHILDREN SHOULD NOT USE POOL WITHOUT ADULT SUPERVISION". SEE 3/SP0.1.
5	FOR POOLS WITH A MAXIMUM WATER DEPTH OF 6'-0" OR LESS, A SIGN SHALL BE POSTED WITH MINIMUM INCH LETTERS THAT READS: "NO DIVING". SEE 4/SP0.1.
6	EXTERIOR SIDE OF GATES AND DOORS LEADING INTO THE POOL ENCLOSURE AREA SHALL HAVE A SIGN POSTED WITH MINIMUM 4 INCH LETTERS THAT READS: "KEEP CLOSED". SEE 6/SP0.1.
7	A SIGN SHALL BE POSTED WITH A MINIMUM 4 INCH LETTERS THAT READS: "FIRE DEPARTMENT" ADDITIONALLY THE SIGN SHALL STATE IN LETTERS AT LEAST 1 INCH IN HEIGHT CONTAINING THE PHONE NUMBER AND ADDRESS OF THE FIRE DEPARTMENT. SEE 7/SP0.1.
8	A SIGN IN LETTERS AT LEAST 1 INCH HIGH AND IN A LANGUAGE OR DIAGRAM THAT IS CLEARLY STATED SHALL BE POSTED AT THE ENTRANCE AREA THAT READS: PERSONS HAVING CURRENTLY ACTIVE DIARRHEA OR WHO HAVE HAD ACTIVE DIARRHEA WITHIN THE PREVIOUS 14 DAYS SHALL NOT BE ALLOWED TO ENTER THE POOL.". SEE 8/SP0.1.
9	CHEMICAL HAZARD SIGNAGE, COORDINATE EACH SIGN WITH EACH ROOM ACCORDING TO CHEMICAL TYPE. SEE 9/SP0.1.
10	THE POOL DECK CAPACITY SHALL BE BASED ON ONE USER FOR EVERY 15 SQUARE FEET OF DECK AREA. POOL DECK CAPACITY SIGN SHALL BE POSTED WITH MINIMUM 4 INCH LETTERS THAT READS: "MAXIMUM DECK CAPACITY: XX PERSONS". SEE 10/SP01.



HOSE-BIB IN PLANTER BENCH
1" = 1'-0"
2



HOSE-BIB IN BENCH AT PLANTER
1" = 1'-0"
1

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SEAL

LICENSED ARCHITECT
JAMES P. MCCLELLAND
C-21797
07/31/2027
STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

PROJECT SITE PLAN

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: RD
PROJECT MANAGER: BR
JOB NUMBER: 791

SHEET NUMBER
SP0.0-1

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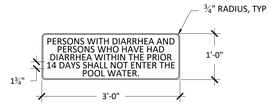
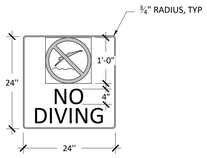


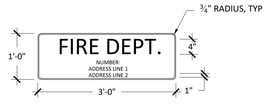
NOTES:
1. 1/8" THICK ALUMINUM COMPOSITE PANEL
2. DIGITAL VINYL PRINT
3. MATTE UV OVERLAMINATE
4. 1.75" MIN TEXT
5. QTY 1

DIARRHEA SIGN (8)
3/4" = 1'-0"



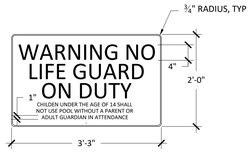
NOTES:
1. 1/8" THICK ALUMINUM COMPOSITE PANEL
2. DIGITAL VINYL PRINT
3. MATTE UV OVERLAMINATE
4. 4" TEXT
5. QTY 1

NO DIVING SIGN (4)
3/4" = 1'-0"



NOTES:
1. 1/8" THICK ALUMINUM COMPOSITE PANEL
2. DIGITAL VINYL PRINT
3. MATTE UV OVERLAMINATE
4. 4" LARGE TEXT, 1" SMALL TEXT
5. QTY 1
6. CONTRACTOR TO OBTAIN APPROPRIATE INFORMATION FROM OWNER WHICH SHALL BE FILLED IN AS PERMANENT PART OF THE SIGN PRIOR TO SIGN FABRICATION.

FIRE DEPT. SIGN (7)
3/4" = 1'-0"

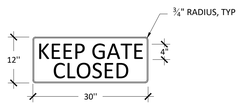


NOTES:
1. 1/8" THICK ALUMINUM COMPOSITE PANEL
2. DIGITAL VINYL PRINT
3. MATTE UV OVERLAMINATE
4. 4" LARGE TEXT, 1" SMALL TEXT
5. QTY 1

NO LIFEGUARD SIGN (3)
3/4" = 1'-0"

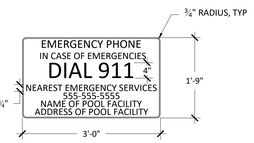
NOTES:
1. 1/8" THICK ALUMINUM COMPOSITE PANEL
2. DIGITAL VINYL PRINT
3. MATTE UV OVERLAMINATE
4. LARGE TEXT 4"
5. QTY 1
6. OCCUPANT LOAD: 526 PERSONS

BATHER LOAD SIGN (10)
3/4" = 1'-0"



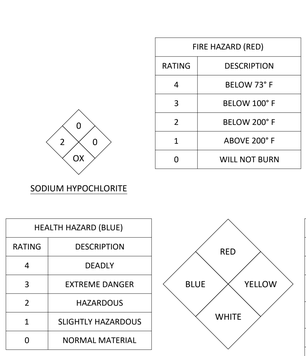
NOTES:
1. 1/8" THICK ALUMINUM COMPOSITE PANEL
2. DIGITAL VINYL PRINT
3. MATTE UV OVERLAMINATE
4. 4" TEXT
5. QTY 5

KEEP CLOSED SIGN (6)
3/4" = 1'-0"

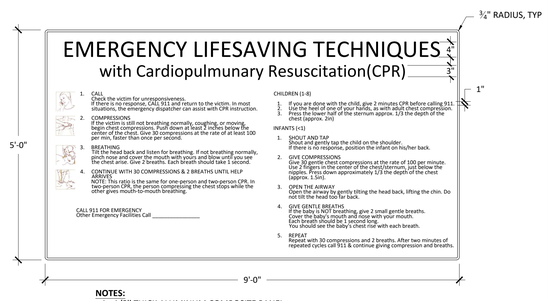


NOTES:
1. 1/8" THICK ALUMINUM COMPOSITE PANEL
2. DIGITAL VINYL PRINT
3. MATTE UV OVERLAMINATE
4. 4" LARGE TEXT, 1.75" SMALL TEXT
5. QTY 1

TELEPHONE SIGN (2)
3/4" = 1'-0"

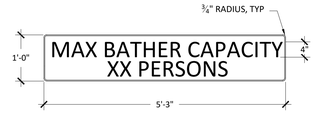


CHEMICAL HAZARD WARNING SIGNAGE (9)
N.T.S.



NOTES:
1. 1/8" THICK ALUMINUM COMPOSITE PANEL
2. DIGITAL VINYL PRINT
3. MATTE UV OVERLAMINATE
4. 4" LARGE TEXT, 1" SMALL TEXT
5. QTY 1

CPR SIGN (5)
3/4" = 1'-0"



NOTES:
1. 1/8" THICK ALUMINUM COMPOSITE PANEL
2. DIGITAL VINYL PRINT
3. MATTE UV OVERLAMINATE
4. LARGE TEXT 4"
5. QTY 1
6. COMPETITION POOL OCCUPANT LOAD: 126 PERSONS
   TEACHING POOL OCCUPANT LOAD: 25 PERSONS

BATHER LOAD SIGN (1)
3/4" = 1'-0"

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SHEET TITLE

SWIMMING POOL SIGNAGE DETAILS

PHASE DESCRIPTION
100% CD - DSA APPROVAL
INCREMENT 1

DATE: 9/24/2025
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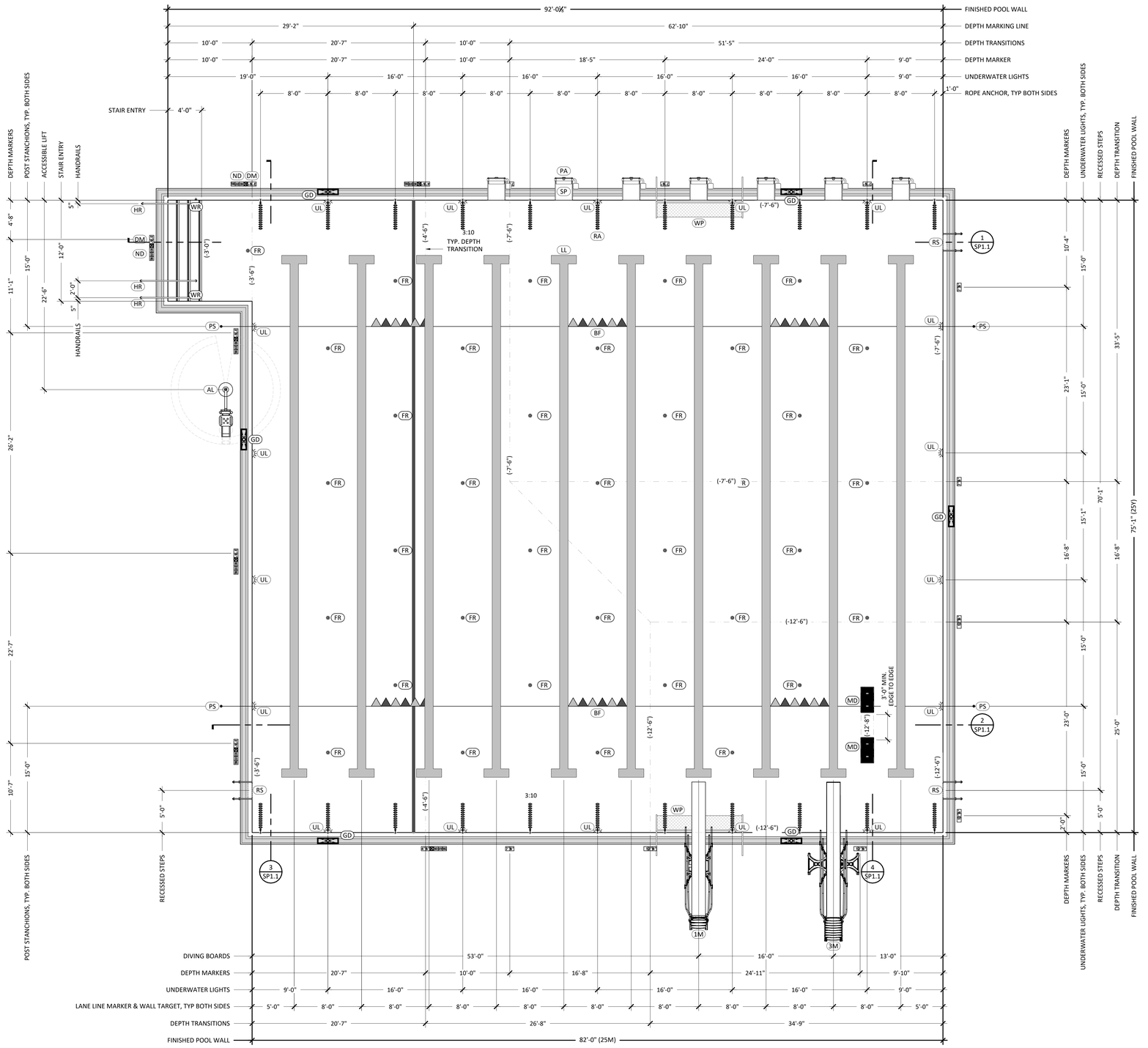

POOL LAYOUT PLAN GENERAL NOTES:

1. POOL FINISH PER FINISH SCHEDULE.
2. PLAN IS TO BE USED IN CONJUNCTION WITH THE POOL STRUCTURAL PLANS, POOL PIPING PLAN AND POOL ELECTRICAL PLANS. REFER TO THOSE DRAWINGS & DETAILS FOR INFORMATION NOT SHOWN ON THIS PLAN.
3. ALL DIMENSIONS SHALL BE VERIFIED PRIOR TO START OF WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER.
4. OVERALL DIMENSIONS SHOWN ARE FROM INSIDE FINISH OF WALLS & FLOORS.
5. FEATURES OR EQUIPMENT DIMENSIONS SHOWN ARE FROM CENTER TO CENTER.
6. DEPTH MARKERS AND WARNING SIGNS ARE SHOWN IN APPROXIMATE LOCATIONS. DEPTH MARKERS AND WARNING SIGNS MAY NOT EXCEED 25'-0" APART PER LOCAL CODE. NO DIVING WARNING SIGNAGE ONLY REQUIRED WHEN POOL DEPTH IS LESS THAN 6 FEET.
7. LIFEGUARD EQUIPMENT SHALL BE PROVIDED AS REQUIRED AS NOTED ON THE DRAWINGS.
8. ALL METAL COMPONENTS TO BE BONDED & GROUNDED PER C.E.C.
9. ALL APPLICABLE STATE AND LOCAL LAWS AND CODES SHALL BE FOLLOWED.

SWIMMING POOL CERTIFICATION:

THE CONTRACTOR SHALL PROVIDE THE SERVICES OF A REGISTERED ENGINEER OR LAND SURVEYOR WHO SHALL MEASURE AND CERTIFY THE ELEVATIONS OF THE GUTTER LIP AT 10 FOOT CENTERS AS WELL AS THE LENGTH OF EACH LANE FOR EACH POSSIBLE RACING COURSE. COURSE LENGTH SURVEY MUST BE MADE WITH THE POOL FILLED WITH WATER BETWEEN 78 AND 82 DEGREES FAHRENHEIT. FORMS FOR THE LANE MEASUREMENTS ARE AVAILABLE FROM USA SWIMMING AND MUST BE SUBMITTED TO USA SWIMMING BY THE CONTRACTOR.

COMPETITION POOL DESIGN DATA	
SIZE (LENGTH BY WIDTH):	92 FT - 75 FT
DEPTH PROFILE:	3 FT 0 IN - 12 FT 6 IN
SURFACE AREA:	6,277 SF
PERIMETER:	334 FT
VOLUME:	352,352 GAL
MAX BATHER LOAD:	313 BATHERS

COMPETITION POOL SYSTEM DESIGN DATA	
TURNOVER RATE:	5.87 HRS
RECIRCULATION RATE:	1000 GPM
FILTER AREA:	66.00 SF
FILTRATION RATE:	15.15 GPM/SF
BACKWASH FLOW RATE:	297 GPM

COMPETITION POOL SUCTION OUTLET DATA	
RECIRCULATION PUMP MAX FLOW RATE @60FT:	1000 GPM
MAIN DRAIN MAX APPROVED FLOW RATE:	2480 GPM
SUCTION PIPE VELOCITY @ DESIGN FLOW RATE:	4.09 FPS

COMPETITION POOL FINISH SCHEDULE	
POOL FINISH	BY MYRTHA, COLOR TO BE WHITE
WATER LINE TILE	6" X 6" GLAZED CERAMIC TILE BY DAL-TILE OR APPROVED EQUAL. CONTRASTING COLOR BY OWNER
GUTTER TILE	1" X 1" MOSAIC GLAZED TILE MANUFACTURERED BY DAL-TILE OR APPROVED EQUAL. COLOR BY OWNER
STEP TRIM	MYRTHA APPLIED ACRYLIC. COLOR BY OWNER
HANDHOLD TILE	C701 TILE DY DAL-TILE OR APPROVED EQUAL. COLOR BY OWNER. TILE TO BE SLIP RESISTANT.
LANE LINE MARKER FINISH	MYRTHA APPLIED ACRYLIC. COLOR BY OWNER
WALL TARGET FINISH	MYRTHA APPLIED ACRYLIC. COLOR BY OWNER
4' 6" DEPTH TRANSITION FINISH	MYRTHA APPLIED ACRYLIC TO BE SLIP RESISTANT. COLOR BY OWNER
POOL FLOOR	MYRTHA SOFTWALK ANTI-SLIP FLOORING, COLOR WHITE. UP TO 4 FT 6 IN DEPTH

COMPETITION POOL LAYOUT EQUIPMENT SCHEDULE

CALL OUT	EQUIPMENT	MODEL/DESCRIPTION	DETAIL
DM	VERTICAL DEPTH MARKERS	6"X6" GLAZED CERAMIC TILE	4/SP1.6
DM	DECK DEPTH MARKERS	6"X6" SLIP RESISTANT CERAMIC TILE	4/SP1.6
ND	NO DIVING MARKER	6"X6" SLIP RESISTANT CERAMIC TILE	5/SP1.6
RS	RECESSED STEPS	SUPPLIED BY MYRTHA	9/SP1.6
RS	GRAB RAILS	PRETZEL 304L STAINLESS STEEL GRAB RAILS, ESCUTCHEONS AND BRONZE ANCHORS BY S.R. SMITH, SPECTRUM, OR APPROVED EQUAL. 1.90 IN DIAMETER 0.145" WALL THICKNESS	9/SP1.6
HR	HANDRAILS	CUSTOM 304L STAINLESS STEEL RAILS, ESCUTCHEONS AND BRONZE DECK ANCHORS BY S.R. SMITH OR APPROVED EQUAL. 1.90 IN DIAMETER 0.145" WALL THICKNESS. POOL STAIR HANDRAIL ANCHOR SUPPLIED BY MYRTHA.	2/SP1.6
AL	ADA ACCESS LIFT	SPLASH! ER BY S.R. SMITH. LIFT SHALL INCLUDE ALL REQUIRED ACCESSORIES.	13/SP1.6
UL	UNDERWATER LIGHTS	J & J ELECTRONICS UNDERWATER POOL LIGHT, 500 W EQUIVALENT, STAINLESS STEEL VINYL POOL NICHE WITH CHROME SEALING RING	6/SP1.6
1M	1 METER DIVING PLATFORM	1 METER REAR ACCESS DIVING STAND WITH HANDRAILS AND 16 FOOT SLIP RESISTANT SPRINGBOARD BY DURAFLEX.	12/SP1.6
3M	3 METER DIVING PLATFORM	3 METER REAR ACCESS DIVING STAND WITH HANDRAILS AND 16 FOOT SLIP RESISTANT SPRINGBOARD BY DURAFLEX.	14/SP1.6
SP	STARTING PLATFORMS	XCELLERATOR SINGLE POST, W/ SIDE STEP, BY SPECTRUM.	9/SP6.2
PA	STARTING PLATFORM ANCHOR	SINGLE POST ANCHOR BY STARTING PLATFORM MANUFACTURER	9/SP6.2
BF	BACKSTROKE FLAGS	PRE-STRUNG 11" BY 14.5" NYLON BACKSTROKE FLAGS AND ALL NECESSARY HARDWARE BY KIEFER, COMPETITOR, ANTI-WAVE, OR APPROVED EQUAL.	NA
2Y	25Y LANE LINE DIVIDERS	6" DISKS - 3" ALTERNATING COLOR, 5M SOLID COLOR AT EACH END, WITH 15M RESURFACING MARKERS BY COMPETITOR, ANTI-WAVE, OR APPROVED EQUAL.	NA
WB	WATERPOLO BOUNDRY COURSE	FLOATING LINES WITH WAVE QUELLING FLOATS AND A 3/16" STAINLESS STEEL CABLE WITH SUPERTENSIONER	NA
RA	ROPE ANCHORS	MYRTHA LOW-PROFILE GUTTER MOUNTED FLOATING ROPE ANCHORS	10/SP1.6
PS	STANCHION POSTS	8 FT STAINLESS STEEL POST, 1.90" OD 316L, WITH BRONZE STANCHION SOCKET AND SLIP FIT COVER, 0.145" MINIMUM WALL THICKNESS	11/SP1.6
PS	STANCHION ANCHORS	CAST BRONZE STANCHION ANCHOR SOCKET W/ MINIMUM 6 INCH EMBEDMENT, 1.90" DIAMETER AND SLIP FIT COVER	11/SP1.6
WP	WATER POLO GOAL	MALMSTEN WATERPOLO GOAL	NA

COMPETITION POOL RECIRCULATION EQUIPMENT SCHEDULE

CALL OUT	EQUIPMENT	MODEL/DESCRIPTION	DETAIL
MD	MAIN DRAIN	DALDERADO 18 X 36 X 28 SUMP AND GRATE, 10" PORT, MAXIMUM FLOW RATE 2,480 GPM WITH MYRTHA COLLAR	1/SP3.4
GD	GUTTER DROP BOX	GUTTER DROP BOX BY MYRTHA	4/SP3.4
FR	FLOOR RETURN INLET	1.5" FLOOR INLET BY MYRTHA	5/SP3.4
WR	WALL RETURN INLET	2" WALL RETURN INLET BY MYRTHA	3/SP3.4

ALL EQUIPMENT NOTED ARE BASIS OF DESIGN & DESIGNATE MINIMUM PERFORMANCE STANDARDS. EQUIVALENT PRODUCTS MAY BE USED PROVIDED THEY ARE SUBMITTED TO ENGINEER OF RECORD FOR APPROVAL.

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SEAL

LICENSED ARCHITECT
JAMES P. McCLELLAND
G-21797
07/31/2027
STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

COMPETITION POOL LAYOUT PLAN

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: RD
PROJECT MANAGER: BR
JOB NUMBER: 791

SHEET NUMBER
SP1.0-1

COMPETITION POOL LAYOUT PLAN
3/16" = 1'-0"
1

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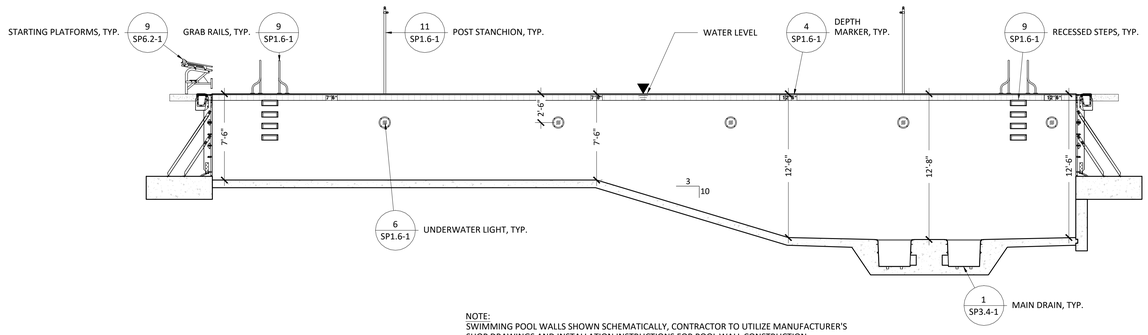
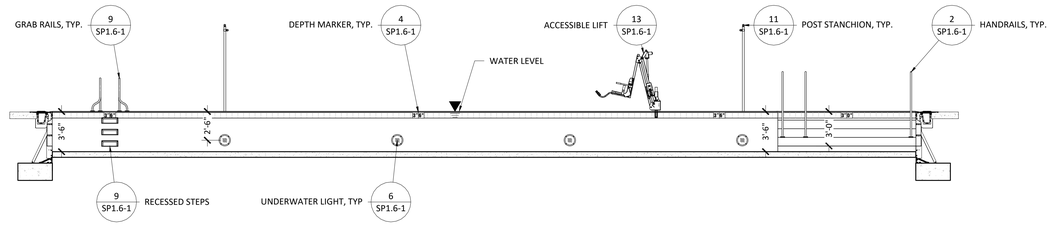


NOTE:
SWIMMING POOL WALLS SHOWN SCHEMATICALLY, CONTRACTOR TO UTILIZE MANUFACTURER'S SHOP DRAWINGS AND INSTALLATION INSTRUCTIONS FOR POOL WALL CONSTRUCTION.

COMPETITION POOL SECTION
3/16" = 1'-0"

4



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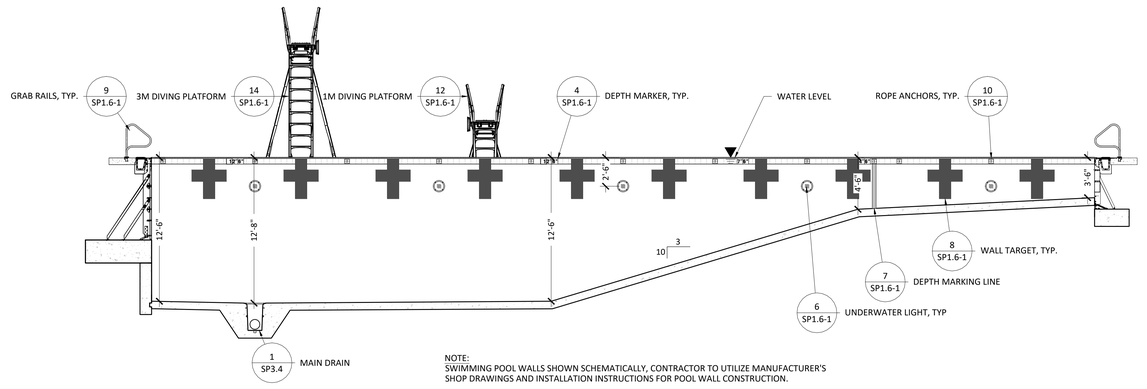
COMPETITION POOL SECTION
3/16" = 1'-0"

3



NOTE:
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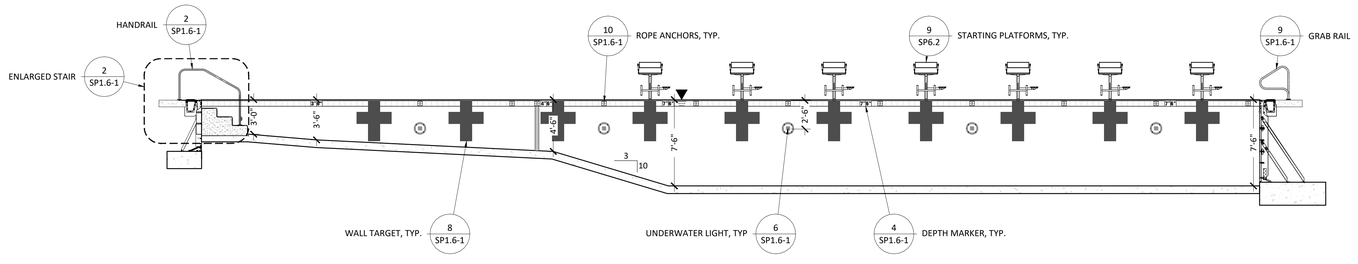
COMPETITION POOL SECTION
3/16" = 1'-0"

2



NOTE:
SWIMMING POOL WALLS SHOWN SCHEMATICALLY, CONTRACTOR TO UTILIZE MANUFACTURER'S SHOP DRAWINGS AND INSTALLATION INSTRUCTIONS FOR POOL WALL CONSTRUCTION.

COMPETITION POOL SECTION
3/16" = 1'-0"

1

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SEAL

LICENSED ARCHITECT
JAMES P. McCLELLAND
C-21797
07/31/2026
STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

COMPETITION POOL SECTIONS

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: RD
PROJECT MANAGER: BR
JOB NUMBER: 791

SHEET NUMBER
SP1.1-1

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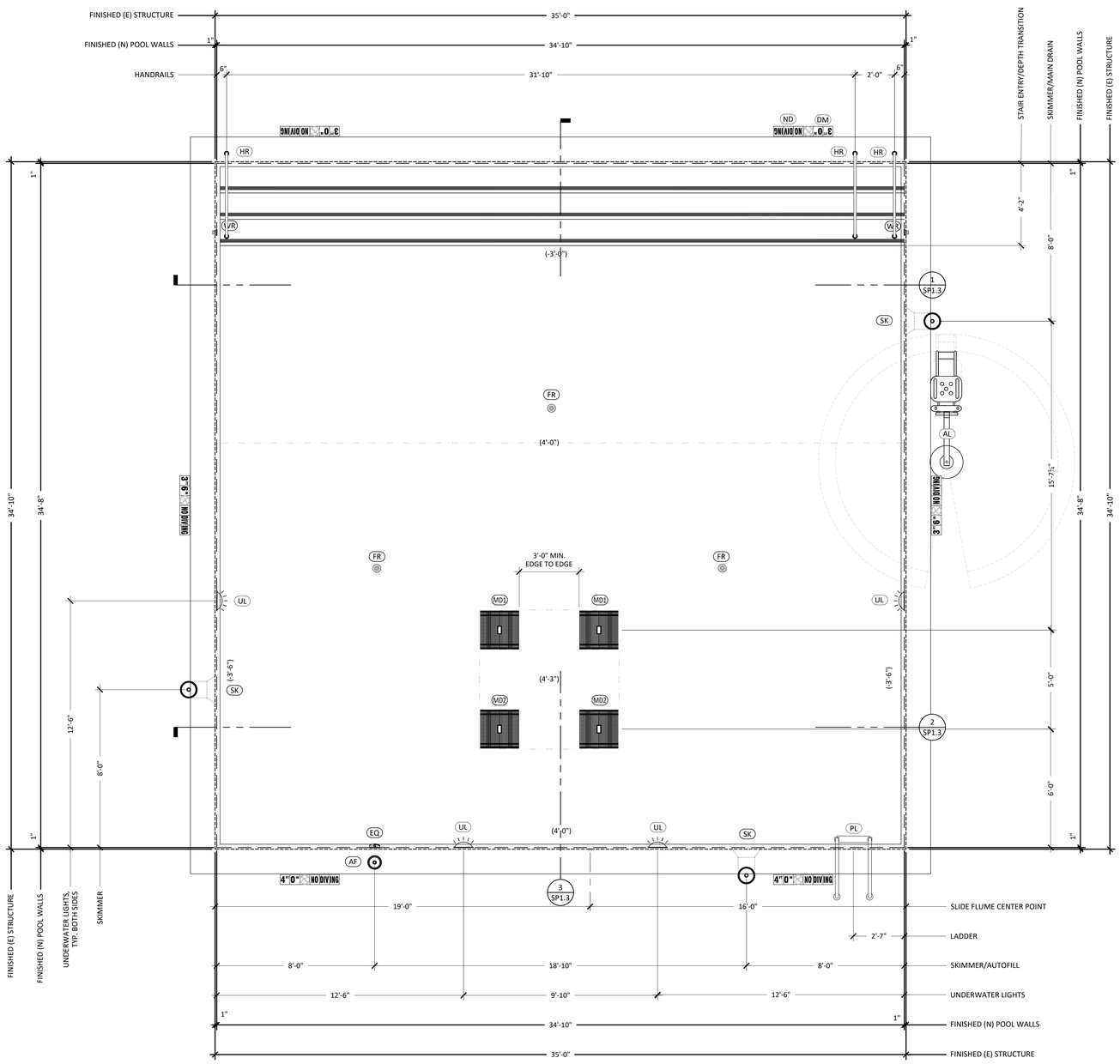

POOL LAYOUT PLAN GENERAL NOTES:

1. POOL FINISH PER FINISH SCHEDULE.
2. PLAN IS TO BE USED IN CONJUNCTION WITH THE POOL STRUCTURAL PLANS, POOL PIPING PLAN AND POOL ELECTRICAL PLANS. REFER TO THOSE DRAWINGS & DETAILS FOR INFORMATION NOT SHOWN ON THIS PLAN.
3. ALL DIMENSIONS SHALL BE VERIFIED PRIOR TO START OF WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER.
4. OVERALL DIMENSIONS SHOWN ARE FROM INSIDE FINISH OF WALLS & FLOORS.
5. FEATURES OR EQUIPMENT DIMENSIONS SHOWN ARE FROM CENTER TO CENTER.
6. DEPTH MARKERS AND WARNING SIGNS ARE SHOWN IN APPROXIMATE LOCATIONS. DEPTH MARKERS AND WARNING SIGNS MAY NOT EXCEED 25'-0" APART PER LOCAL CODE. NO DIVING WARNING SIGNAGE ONLY REQUIRED WHEN POOL DEPTH IS LESS THAN 6 FEET.
7. LIFEGUARD EQUIPMENT SHALL BE PROVIDED AS REQUIRED AS NOTED ON THE DRAWINGS.
8. ALL METAL COMPONENTS TO BE BONDED & GROUNDED PER C.E.C.
9. ALL APPLICABLE STATE AND LOCAL LAWS AND CODES SHALL BE FOLLOWED.

TEACHING POOL DESIGN DATA	
SIZE (LENGTH BY WIDTH):	34 FT 10 IN - 34 FT 8 IN
DEPTH PROFILE:	3 FT 0 IN - 4 FT 3 IN
SURFACE AREA:	1,213 SF
PERIMETER:	139 FT
VOLUME:	31,365 GAL
MAX BATHER LOAD:	60 BATHERS

TEACHING POOL SYSTEM DESIGN DATA	
TURNOVER RATE:	4.55 HRS
RECIRCULATION RATE:	115 GPM
FILTER AREA:	7.06 SF
FILTRATION RATE:	16.29 GPM/SF
BACKWASH FLOW RATE:	127 GPM

TEACHING POOL SUCTION OUTLET DATA	
RECIRCULATION PUMP MAX FLOW RATE @60FT:	255 GPM
MAIN DRAIN MAX APPROVED FLOW RATE:	408 GPM
SUCTION PIPE VELOCITY @ DESIGN FLOW RATE:	5.22 FPS

TEACHING POOL FINISH SCHEDULE	
POOL FINISH	BY MYRTHA, COLOR TO BE WHITE
WATER LINE TILE	6" X 6" GLAZED CERAMIC TILE BY DAL-TILE OR APPROVED EQUAL. CONTRASTING COLOR BY OWNER
STEP TRIM	MYRTHA APPLIED ACRYLIC. COLOR BY OWNER
COPING STONE	19" BULLNOSE COPING, CONTRACTOR TO CONFIRMCOPING STONE WIDTH ONSITE
POOL FLOOR	MYRTHA SOFTWALK ANTI-SLIP FLOORING, COLOR WHITE

TEACHING POOL LAYOUT EQUIPMENT SCHEDULE

CALL OUT	EQUIPMENT	MODEL/DESCRIPTION	DETAIL
DM	VERTICAL DEPTH MARKERS	6"X6" GLAZED CERAMIC TILE	3/SP1.7
DM	DECK DEPTH MARKERS	6"X6" SLIP RESISTANT CERAMIC TILE	3/SP1.7
ND	NO DIVING MARKER	6"X6" SLIP RESISTANT CERAMIC TILE	4/SP1.7
PL	POOL LADDER	STANDARD CROSSBRACE PLUS LADDER, 3 STEP, 1.90 IN OUSTSIDE DIAMETER 0.145" WALL THICKNESS TYPE 304L STAINLESS STEEL MANUFACTURED BY SPECTRUM	6/SP1.7
HR	HANDRAILS	CUSTOM 304L STAINLESS STEEL RAILS, ESCUTCHEONS AND BRONZE DECK ANCHORS BY S.R. SMITH OR APPROVED EQUAL. 1.90 IN DIAMETER 0.145" WALL THICKNESS. POOL STAIR HANDRAIL ANCHOR SUPPLIED BY MYRTHA.	2/SP1.7
AL	ADA ACCESS LIFT	SPLASH! ER BY S.R. SMITH. LIFT SHALL INCLUDE ALL REQUIRED ACCESSORIES.	10/SP1.7
UL	UNDERWATER LIGHTS	J & J ELECTRONICS UNDERWATER POOL LIGHT, 500 W EQUIVALENT, STAINLESS STEEL VINYL POOL NICHE WITH CHROME SEALING RING	7/SP1.7

TEACHING POOL RECIRCULATION EQUIPMENT SCHEDULE

CALL OUT	EQUIPMENT	MODEL/DESCRIPTION	DETAIL
MD1	RECIRCULATION MAIN DRAIN	DALDERADO 24 X 24 X 12 - 03 SUMP AND GRATE, MAXIMUM FLOW RATE 408 GPM WITH MYRTHA COLLAR	2/SP3.5
MD2	SLIDE MAIN DRAIN	DALDERADO 24 X 24 X 30 - 10 SUMP AND GRATE, MAXIMUM FLOW RATE 1734 GPM WITH MYRTHA COLLAR	1/SP3.5
SK	SKIMMER	HAYWARD WIDEMOUTH SP1085 VINYL SKIMMER WITH ALL REQUIRED GASKETS AND AND MOUNT SPACE BLOCK, NO EQUALIZER COVERS	6/SP3.5
FR	FLOOR RETURN INLET	1.5" FLOOR INLET BY MYRTHA	5/SP3.5
WR	WALL RETURN INLET	2" WALL RETURN INLET BY MYRTHA	4/SP3.5
AF	AUTOFILL	MP INDUSTRIES, INC. AUTO-LEV AUTOMATIC WATER LEVELER, 3/4" WATER SUPPLY, 1-1/2" EQUALIZER LINE, W/ DECK WELL INSTALLATION	7/SP3.5
EQ	AUTOFILL EQUALIZER COVER	AQUASTAR 6HPHAxxx 6" ROUND OUTLET COVER	8/SP3.5

ALL EQUIPMENT NOTED ARE BASIS OF DESIGN & DESIGNATE MINIMUM PERFORMANCE STANDARDS. EQUIVALENT PRODUCTS MAY BE USED PROVIDED THEY ARE SUBMITTED TO ENGINEER OF RECORD FOR APPROVAL.

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CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

TEACHING POOL LAYOUT PLAN

PHASE DESCRIPTION
100% CD - DSA APPROVAL
INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: RD
PROJECT MANAGER: BR
JOB NUMBER: 791

SHEET NUMBER
SP1.2-1

TEACHING POOL LAYOUT PLAN
3/8" = 1'-0"
1

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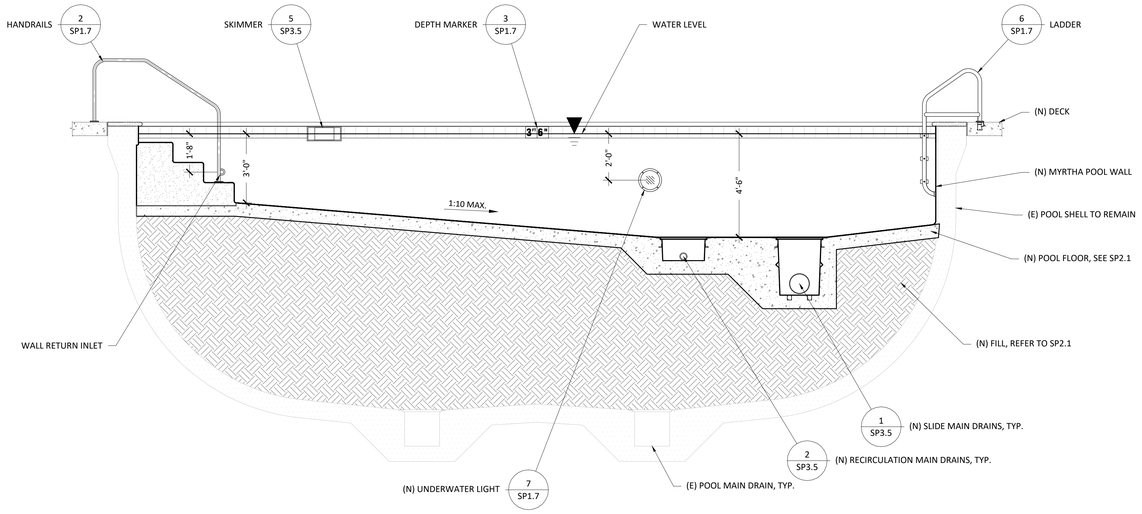
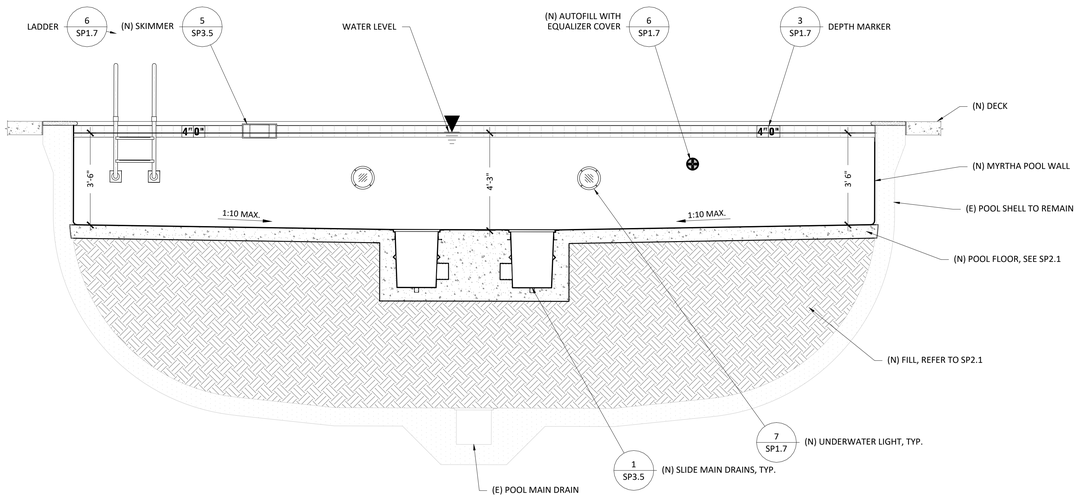
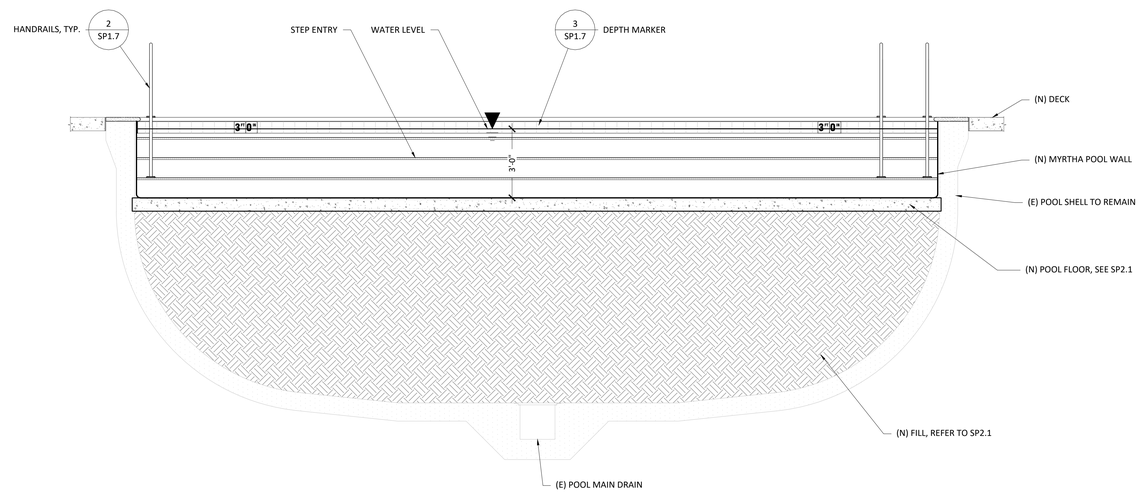


TEACHING POOL SECTION
3/8" = 1'-0"
3



TEACHING POOL SECTION
3/8" = 1'-0"
2



TEACHING POOL SECTION
3/8" = 1'-0"
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GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

TEACHING POOL SECTIONS

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: RD
PROJECT MANAGER: BR
JOB NUMBER: 791

SHEET NUMBER
SP1.3-1

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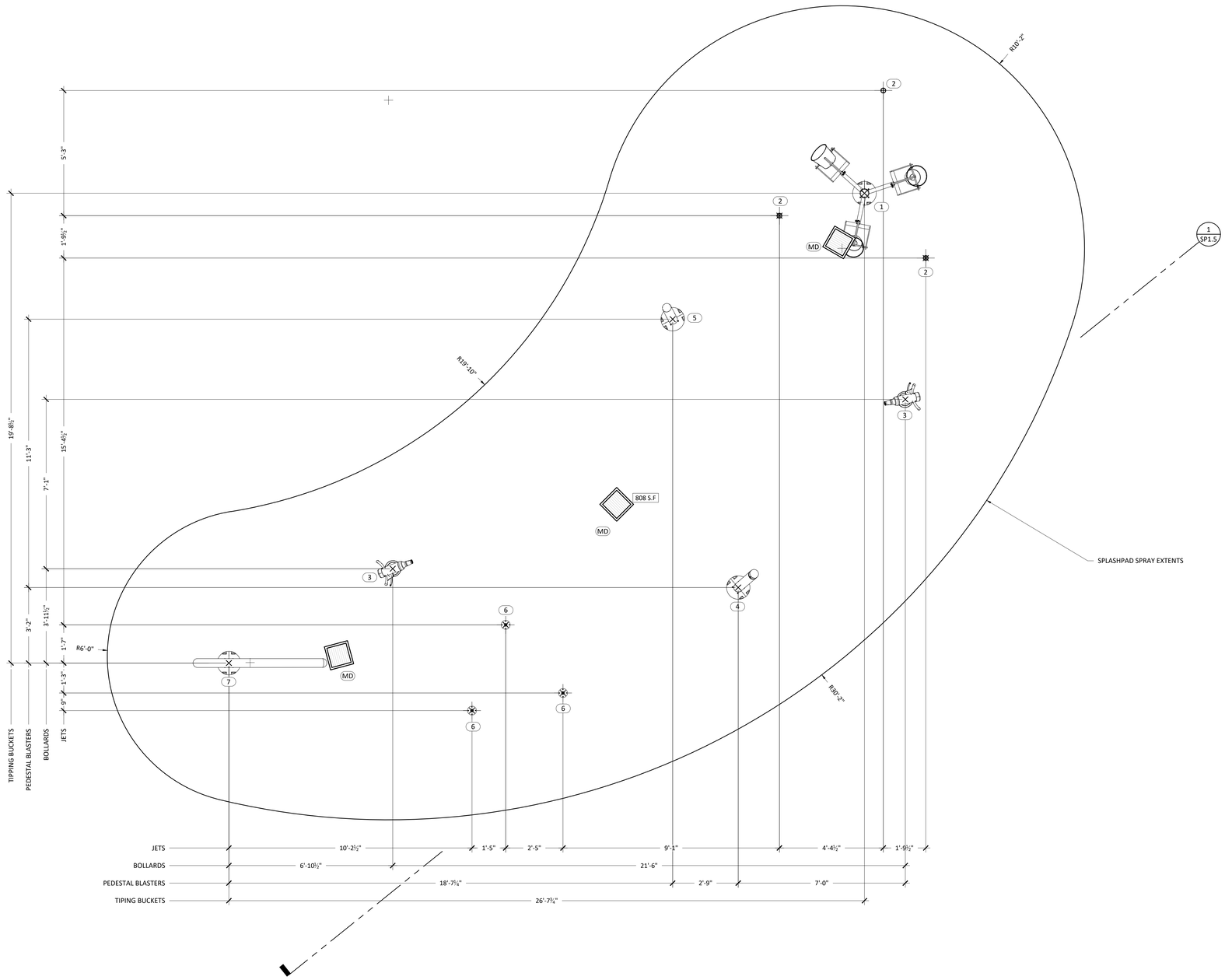

SPLASH PAD PLAN GENERAL NOTES:

1. SPLASH PAD FINISH PER FINISH SCHEDULE.
2. PLAN IS TO BE USED IN CONJUNCTION WITH THE SPLASH PAD PIPING PLAN (**SP3.3-1**). TO THOSE PLANS FOR UN-CLEAR PORTIONS OR INFORMATION NOT SHOWN.
3. ALL DIMENSIONS SHALL BE VERIFIED PRIOR TO START OF WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER.
4. OVERALL DIMENSIONS SHOWN ARE FROM THE OUTSIDE FINISH OF WALLS & FLOORS.
5. FEATURES OR EQUIPMENT DIMENSIONS SHOWN ARE FROM CENTER TO CENTER.
6. DEPTH MARKERS AND WARNING SIGNS ARE SHOWN IN APPROXIMATE LOCATIONS. DEPTH MARKERS AND WARNING SIGNS MAY NOT EXCEED 25'-0" APART PER LOCAL CODE.
7. ALL METAL COMPONENTS TO BE BONDED & GROUNDED PER N.E.C.

SPLASH PAD FEATURE SCHEDULE

CALL OUT	SPRAYTOY	QUANTITY	GPM
1	TIPPY BUCKET - 3-WAY_TRE-TB3	1	30 GPM
2	DIRECTIONAL JET-POP_FM-DJ	3	5 GPM (EACH)
3	PEDESTAL BLASTER_GND-PBT	2	20 GPM (EACH)
4	WATER DOME_BOL-WD	1	40 GPM
5	RADIAL JET BOLLARD_BOL-RJ	1	3O GPM
6	GUSHER DECK JET_FM-GJ	3	20 GPM (EACH)
7	BLADE SPRAY DOWN JETS_GND-BSD	1	20 GPM
	TOTAL	12	235 GPM

SPLASHPAD RECIRCULATION EQUIPMENT SCHEDULE

CALL OUT	EQUIPMENT	MODEL/DESCRIPTION	DETAIL
MD	MAIN DRAIN	RAINDECK 11"X11" BOX DRAIN - 4" PVC CONNECTION RD437	1/SP3.6

SPLASHPAD DESIGN DATA

SPLASHPAD FEATURE FLOWRATE:	235 GPM
SURGE TANK VOLUME:	4,443 GAL
SURGE TANK TURNOVER RATE:	0.50 HRS
SURGE TANK RECIRCULATION RATE:	150 GPM
FILTER AREA:	4.91 SF
FILTRATION RATE:	15.27 GPM/SF
BACKWASH FLOW RATE:	100 GPM

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123309 INC: 1
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SS ☑ FLS ☑ ACS ☑
DATE: 9/30/2025

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C-21797
07/31/2027
STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquility, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

SPLASH PAD LAYOUT PLAN

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: RD
PROJECT MANAGER: BR
JOB NUMBER: 791

SHEET NUMBER
SP1.4-1

SPLASH PAD LAYOUT PLAN
1/2" = 1'-0"
1

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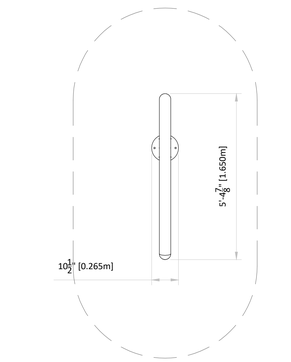
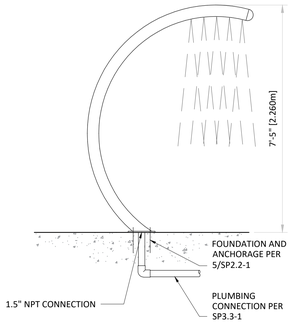
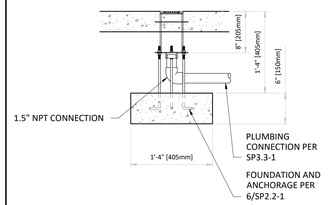
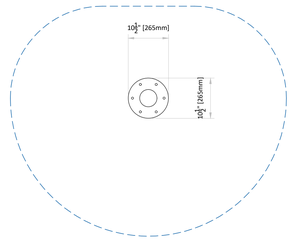


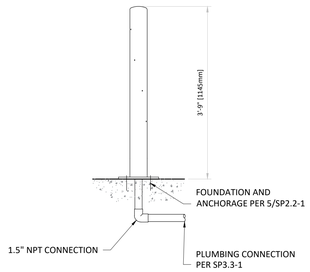


BLADE SPRAY DOWN
1/2" = 1'-0" | 8

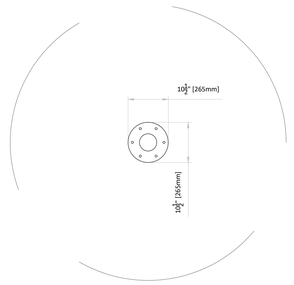


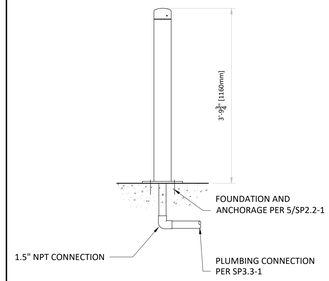
GUSHER DECK JET
1" = 1'-0" | 7



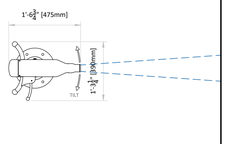


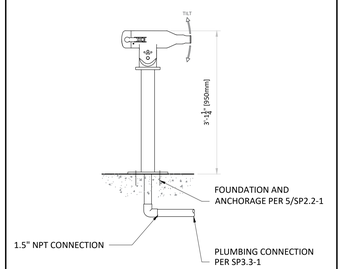
RADIAL JET BOLLARD
3/4" = 1'-0" | 6



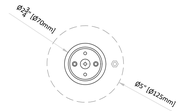


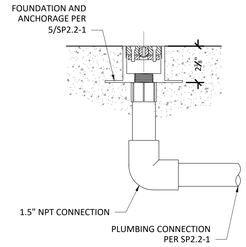
WATER DOME
3/4" = 1'-0" | 5



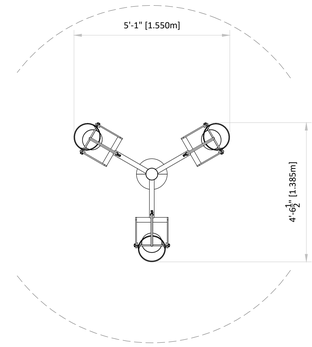


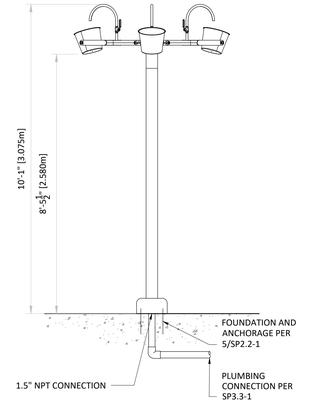
PEDESTAL BLASTER
3/4" = 1'-0" | 4



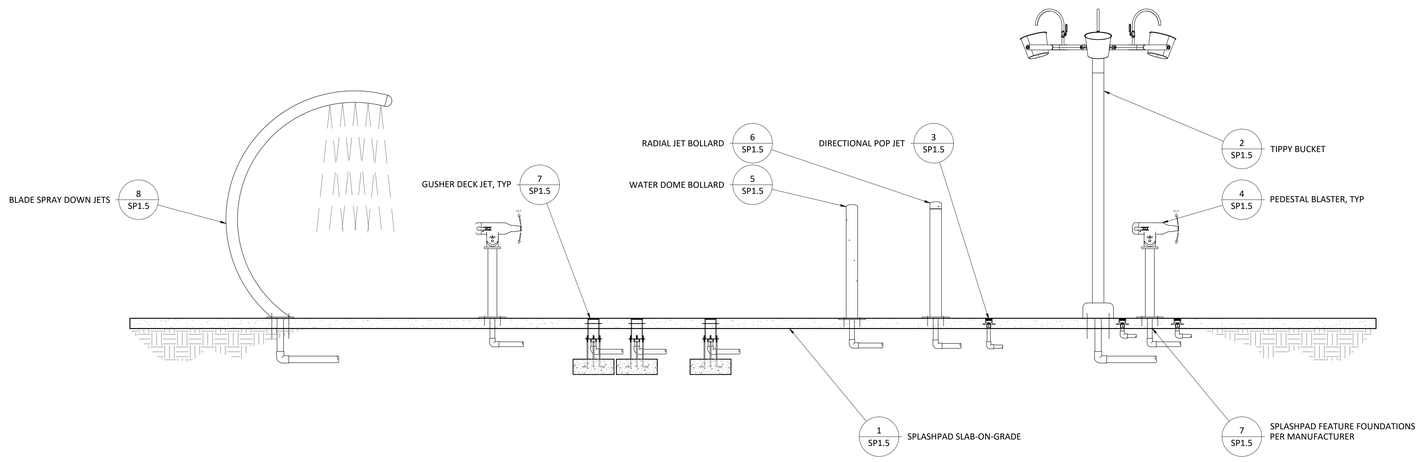


DIRECTION POP JET
3" = 1'-0" | 3





TIPPY BUCKET
1/2" = 1'-0" | 2



SPLASH PAD SECTION
1/2" = 1'-0" | 1

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SP1.5-1

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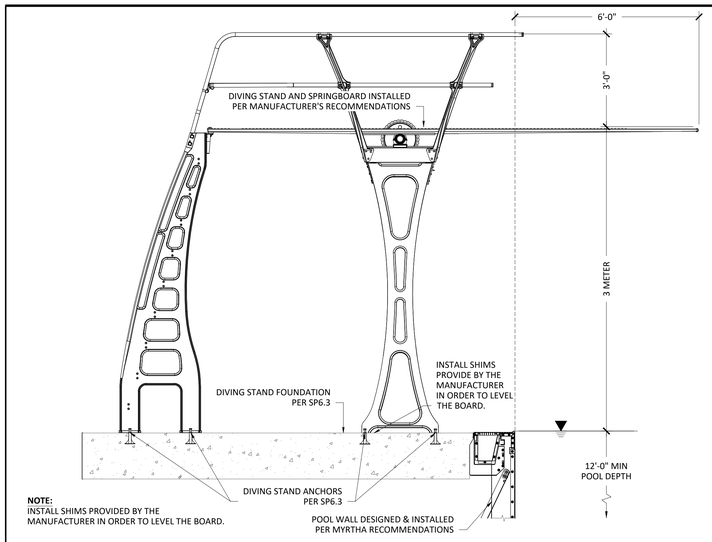
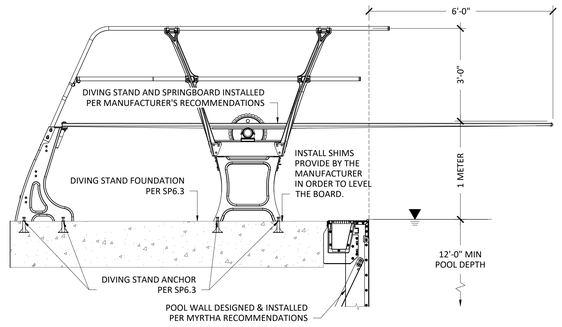


NOTE:
INSTALL SHIMS PROVIDED BY THE MANUFACTURER IN ORDER TO LEVEL THE BOARD.

CONTRACTOR TO OBTAIN MANUFACTURER'S ANCHOR INSTALLATION TEMPLATE TO ASSURE ACCURATE LOCATION OF ALL ANCHORS

3-METER DIVING STAND
1/2" = 1'-0" — 14

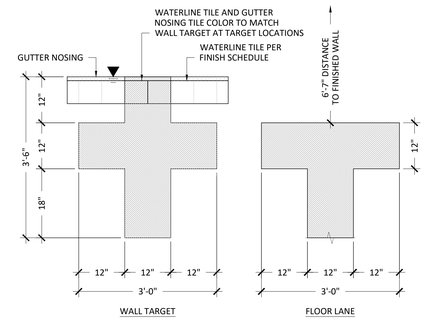


CONTRACTOR TO OBTAIN MANUFACTURER'S ANCHOR INSTALLATION TEMPLATE TO ASSURE ACCURATE LOCATION OF ALL ANCHORS

NOTE:
INSTALL SHIMS PROVIDED BY THE MANUFACTURER IN ORDER TO LEVEL THE BOARD.

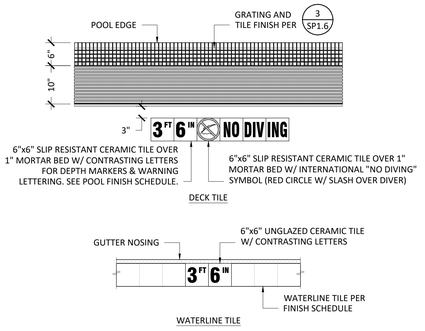
NOTE: BOND & GROUND PER CEC

1-METER DIVING STAND
1/2" = 1'-0" — 12



NOTE:
ALL LANE MARKERS & WALL TARGETS TO BE PAINTED PER MYRTHA RECOMMENDATIONS AND BE SLIP RESISTANT. COLOR SELECTION PER FINISH SCHEDULE.

LANE MARKERS & WALL TARGETS
3/4" = 1'-0" — 8



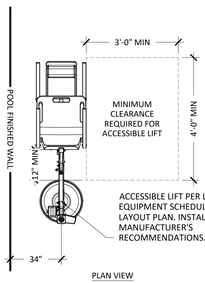
DETAIL NOTES:
1. "NO DIVING" SYMBOL/LETTERING ONLY REQUIRED FOR DEPTHS 6'-0" OR LESS.
2. ALL GUTTER & WATERLINE TILE TO BE INSTALLED PER MYRTHA RECOMMENDATIONS.

DEPTH MARKER LOCATIONS
3/4" = 1'-0" — 4

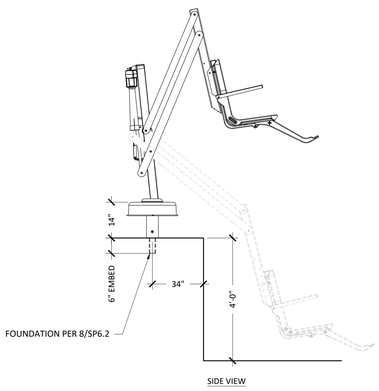
ACCESSIBLE LIFT NOTES:
1. SEAT SHALL HAVE 300 LBS MIN. LIVE LOAD CAPACITY.
2. SEAT SHALL HAVE AN OCCUPANT RESTRAINT.
3. SEAT SHALL LOWER OPERATOR 18" MIN. BELOW SURFACE OF WATER.
4. MAXIMUM TURNING RADIUS IS 48" WHEN RAISED.
5. GUSSET COVER PLATE TO BE ATTACHED REQUIRING TOOL FOR REMOVAL.
6. FOOTRESTS SHALL BE PROVIDED AND SHALL MOVE WITH THE SEAT.
7. LIFT SHALL HAVE TWO ARMRESTS, THE ARMREST POSITIONED OPPOSITE THE WATER SHALL BE REMOVABLE OR SHALL FOLD CLEAR OF THE SEAT WHEN THE SEAT IS IN THE RAISED POSITION.
8. THE LIFT SHALL BE CAPABLE OF UNASSISTED OPERATION FROM THE DECK AND WATER LEVEL. CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL BE UNOBSTRUCTED WHEN THE LIFT IS IN USE.
9. LIFT MUST BE STABLE AND NOT PERMIT UNINTENDED MOVEMENT WHEN A PERSON IS GETTING INTO OR OUT OF THE SEAT.
10. SEE STRUCTURAL SHEET SP2.1 FOR ACCESSIBLE LIFT FOUNDATION REQUIREMENTS.
11. SEAT RESTRAINT SHALL COMPLY WITH OPERABLE PARTS 11B-1009.2.4
12. BACK SUPPORT SHALL BE AT LEAST 12" HIGH 11B-1009.2.3
13. HEIGHT OF SEAT ON DECK SHALL BE BETWEEN 17"-19" 11B-1009.2.4
14. SEAT SHALL BE MIN. 16" WIDE 11B-1009.2.5

ACCESSIBLE LIFT/SEAT TO COMPLY WITH THE FOLLOWING CODES & SECTIONS:

2022 CALIFORNIA BUILDING CODE
SECTION 11B-309
SECTION 11B-205
SECTION 11B-1009.2



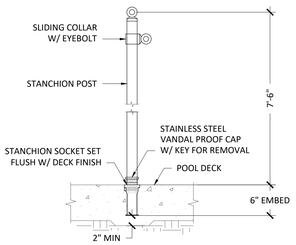
PLAN VIEW



SIDE VIEW

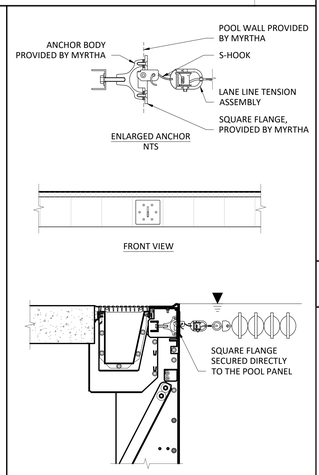
NOTE: BOND & GROUND PER NEC

POOL ADA LIFT
1/2" = 1'-0" — 13



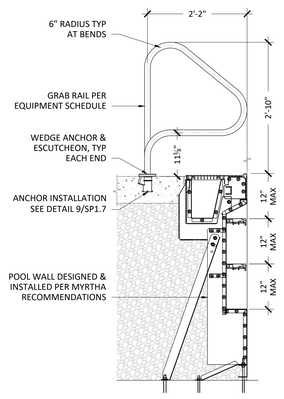
NOTE: BOND & GROUND PER CEC

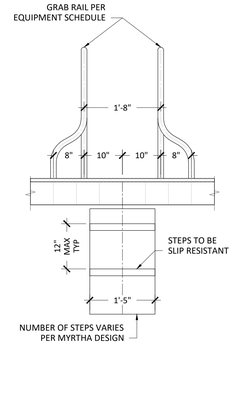
STANCHION POST & ANCHOR
1" = 1'-0" — 11



NOTE: BOND & GROUND PER CEC

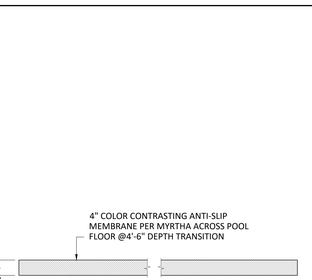
ROPE ANCHOR
1" = 1'-0" — 10



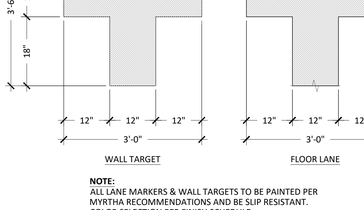


NOTE: BOND & GROUND PER CEC

RECESSED ENTRY STEPS
3/4" = 1'-0" — 9

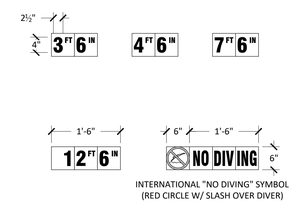


4'-6" DEPTH TRANSITION FLOOR MARKER
3/4" = 1'-0" — 7



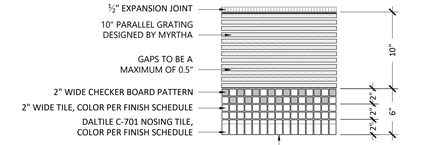
NOTE: BOND & GROUND PER CEC

UNDERWATER LIGHT
1" =1'-0" — 6



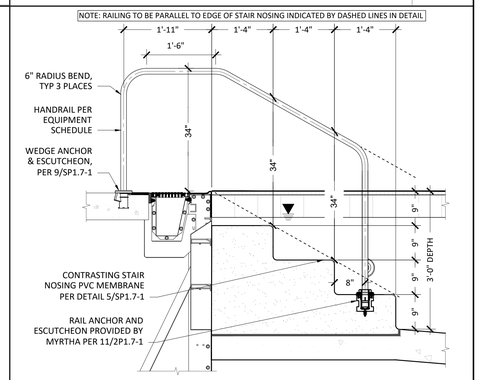
NOTE:
1. ALL WATERLINE TILE TO BE 6"x6" GLAZED CERAMIC TILE INSTALLED PER MYRTHA RECOMMENDATIONS.
2. ALL DECK TILE TO BE 6"x6" SLIP RESISTANT CERAMIC TILE.
3. LETTERING & NUMBERS TO BE MADE UP OF CONTRASTING TILE COLORS, SEE POOL FINISH SCHEDULE.
4. "NO DIVING" SYMBOL & LETTERING ONLY REQUIRED FOR DEPTHS 6'-0" OR LESS.

DEPTH MARKER TILE
3/4" = 1'-0" — 5



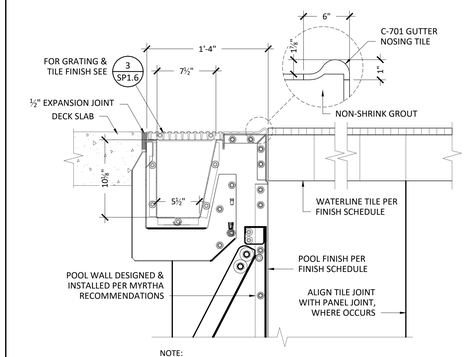
NOTE: ALL TILE TO BE 1"x1" UNGLAZED SLIP RESISTANT TILE INSTALLED PER MYRTHA RECOMMENDATIONS

DECK LEVEL GUTTER TILE FINISH
1 1/2" = 1'-0" — 3



NOTE: BOND & GROUND PER CEC

ENTRY STAIRS
3/4" = 1'-0" — 2



NOTE:
GUTTER TO BE DESIGNED BY MYRTHA, DIMENSIONS ARE APPROXIMATE.

DECK LEVEL GUTTER
1 1/2" = 1'-0" — 1

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COMPETITION POOL FINISH DETAILS

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3. SEAT SHALL LOWER OPERATOR 18" MIN. BELOW SURFACE OF WATER.
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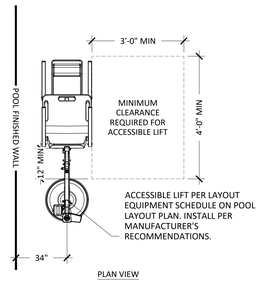
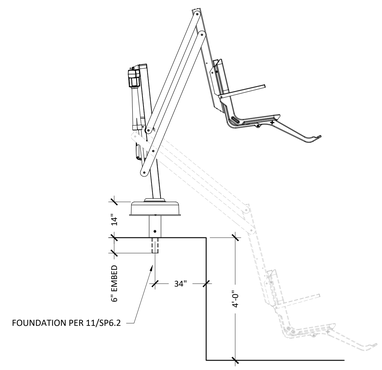
6. FOOTRESTS SHALL BE PROVIDED AND SHALL MOVE WITH THE SEAT.
7. LIFT SHALL HAVE TWO ARMRESTS. THE ARMREST POSITIONED OPPOSITE THE WATER SHALL BE REMOVABLE OR SHALL FOLD CLEAR OF THE SEAT WHEN THE SEAT IS IN THE RAISED POSITION.
8. THE LIFT SHALL BE CAPABLE OF UNASSISTED OPERATION FROM THE DECK AND WATER LEVEL. CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL BE UNOBSTRUCTED WHEN THE LIFT IS IN USE.
9. LIFT MUST BE STABLE AND NOT PERMIT UNINTENDED MOVEMENT WHEN A PERSON IS GETTING INTO OR OUT OF THE SEAT.
10. SEE STRUCTURAL SHEET SP2.1 FOR ACCESSIBLE LIFT FOUNDATION REQUIREMENTS.
11. SEAT RESTRAINT SHALL COMPLY WITH OPERABLE PARTS 11B-1009.2.4
12. BACK SUPPORT SHALL BE AT LEAST 12" HIGH 11B-1009.2.3
13. HEIGHT OF SEAT ON DECK SHALL BE BETWEEN 17"-19" 11B-1009.2.4
14. SEAT SHALL BE MIN. 16" WIDE 11B-1009.2.5

ACCESSIBLE LIFT/SEAT TO COMPLY WITH THE FOLLOWING CODES & SECTIONS:

2022 CALIFORNIA BUILDING CODE
SECTION 11B-309
SECTION 11B-205
SECTION 11B-1009.2



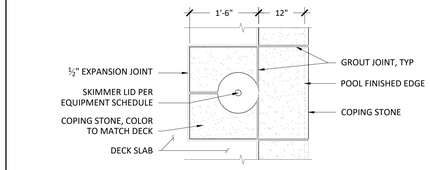
PLAN VIEW



SIDE VIEW

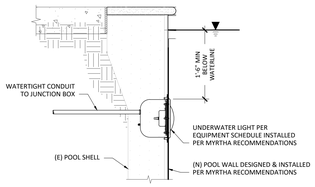
NOTE: BOND & GROUND PER NEC

POOL ADA LIFT
1/2" = 1'-0" — 10



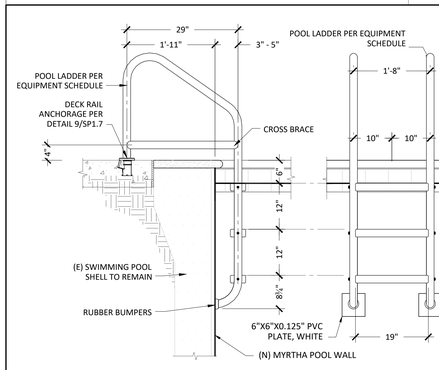
PLAN

SKIMMER COPING
3/4" = 1'-0" — 8



NOTE: BOND & GROUND PER CEC

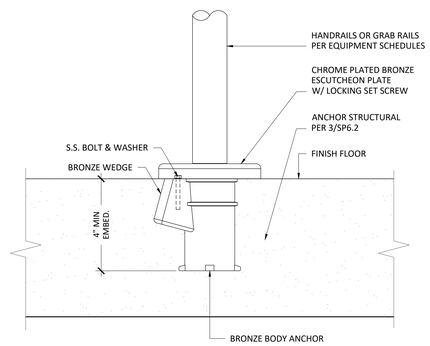
UNDERWATER LIGHT
3/4" = 1'-0" — 7



NOTE:
1. GROUNDING & BONDING TO BE PER CEC.
2. POOL LADDER SHALL COMPLY WITH CBC 3111B.4, 3111B.5

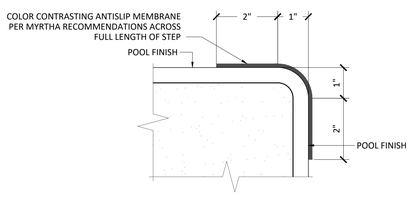
TEACHING POOL GRAB RAIL LADDER
3/4" = 1'-0" — 6

POOL STAIR RAIL ANCHOR AND ESCUTCHEON
3" = 1'-0" — 11

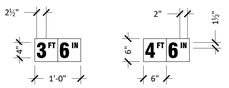


NOTE: BOND & GROUND PER NEC

DECK WEDGE ANCHOR
3" = 1'-0" — 9



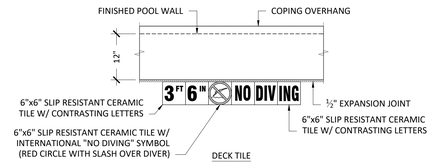
CONTRASTING NOSING STEPS
6" = 1'-0" — 5

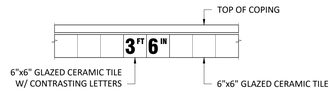


INTERNATIONAL "NO DIVING" SYMBOL
(RED CIRCLE W/ SLASH OVER DIVER)

NOTE:
1. ALL WATERLINE TILE TO BE 6"x6" GLAZED CERAMIC TILE INSTALLED PER MYRTHA RECOMMENDATIONS.
2. ALL DECK TILE TO BE 6"x6" SLIP RESISTANT CERAMIC TILE OVER 1" MIN MORTAR BED.
3. LETTERING & NUMBERS TO BE MADE UP OF CONTRASTING TILE COLORS, SEE POOL FINISH SCHEDULE.
4. "NO DIVING" SYMBOL & LETTERING ONLY REQUIRED FOR DEPTHS 6'-0" OR LESS.

DEPTH MARKER TILE
3/4" = 1'-0" — 4

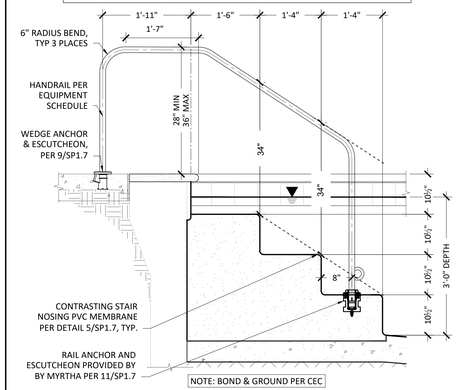




NOTE:
1. ALL WATER TILE TO BE GLAZED CERAMIC TILE.
2. ALL DECK TILE TO BE SLIP RESISTANT CERAMIC TILE.

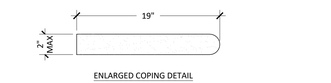
DEPTH MARKER LOCATIONS
3/4" = 1'-0" — 3

NOTE: RAILING TO BE PARALLEL TO EDGE OF STAIR NOSING INDICATED BY DASHED LINES IN DETAIL

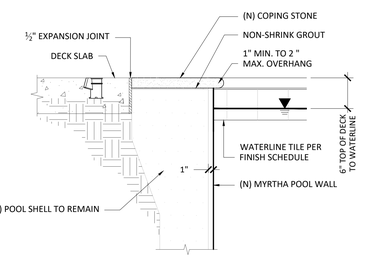


NOTE: BOND & GROUND PER CEC

ENTRY STAIRS
3/4" = 1'-0" — 2



ENLARGED COPING DETAIL



NOTE:
CONTRACTOR TO CONFIRM BOND BEAM DIMENSIONS AND FINAL COPING STONE DIMENSION.

BOND BEAM & COPING
1" = 1'-0" — 1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123309 INC: 1
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 9/30/2025

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SEAL

LICENSED ARCHITECT
JAMES P. McCLELLAND
C-21797
07/31/2027
STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

TEACHING POOL FINISH DETAILS

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

DATE: 9/242025
TECHNICIAN: RD
PROJECT MANAGER: BR
JOB NUMBER: 791

SHEET NUMBER
SP1.7-1

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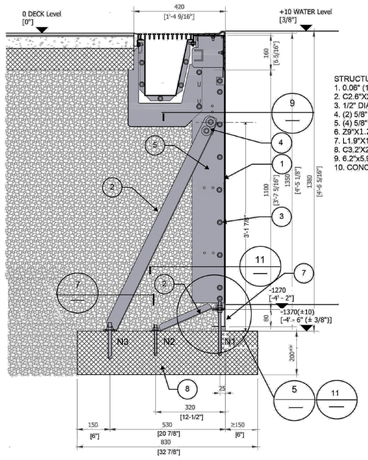
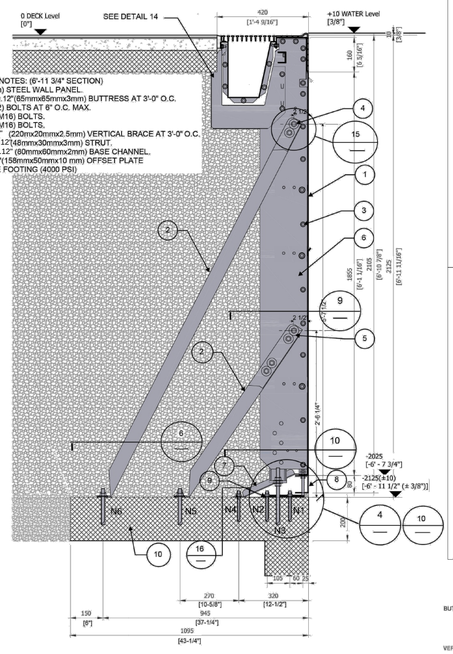


S1 S1 - SEZ TIPO
Scale 1 : 10

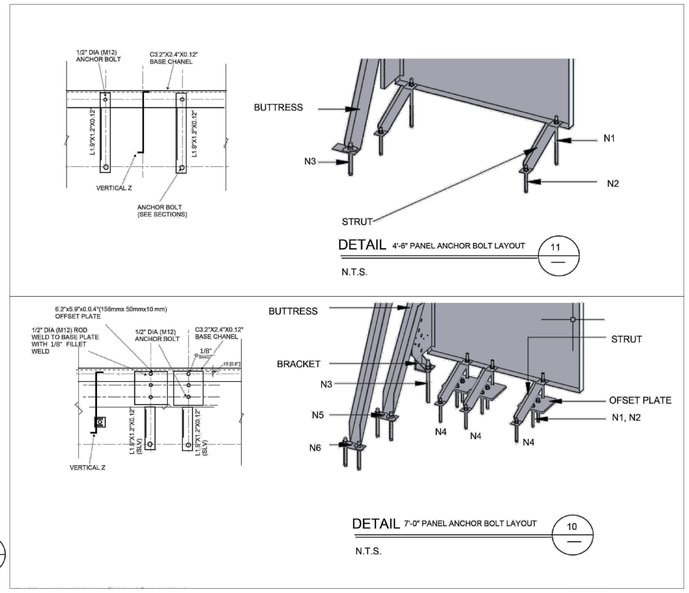
STRUCTURAL NOTES: (6'-6 5/16" SECTION)
1. 0.06" (1.5 mm) STEEL WALL PANEL.
2. L2.4"X2.4"X0.12"(60.5mmx60.5mmx3mm) BUTTRESS AT 3'-0" O.C.
3. 1/2" DIA (M12) BOLTS AT 6" O.C. MAX.
4. (2) 5/8" DIA (M18) BOLTS.
5. Z6"X0.8"X0.08" (150mmx20mmx2mm) VERTICAL BRACE AT 3'-0" O.C.
6. L1.9"X1.2"X0.1" (48mmx30mmx3mm) STRUT.
7. C3.2"X2.4"X0.08" (80mmx60mmx2mm) BASE CHANNEL.
8. CONCRETE FOOTING (4000 PSI)

Anchor bolt Reactions		FACTORED LOAD			
NO.	DIA	N of bolts	EMBED (IN)	VERT (LBS)	HORI (LBS)	TEST LOAD (LBS)
N1	0.5"(M12)	1	4	2764.0	-106	4600
N2	0.5"(M12)	1	4	-773.0	2332	4600
N3	0.625"(M16)	1	6	-4705.0	2347	7400



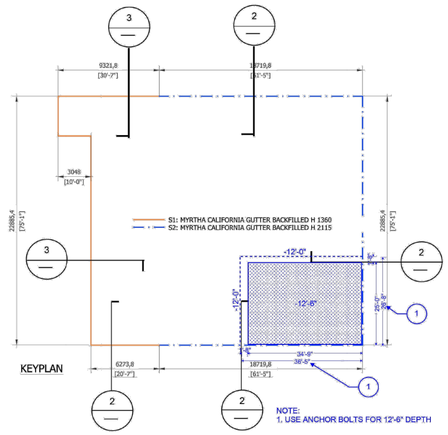
S2 MYRTHA CALIFORNIA GUTTER, BACKFILLED H2115
Scale 1 : 10

ANCHOR BOLTS (<= 12' DEEP)				FACTORED LOAD (PER ANCHOR)		TEST LOAD (LBS)
NO.	DIA	N of bolts	EMBED (IN)	VERT (LBS)	HORI (LBS)	PER BOLT
N1	0.5"(M12)	1	4.3	1819	-1668	4600
N2	0.5"(M12)	1	4.3	-528	0	4600
N3	0.625"(M16)	1	5.0	-1006	28	7400
N4	0.5"(M12)	1	4.3	-1164	3642	4600
N5	0.625"(M16)	2	7.6	-11550	6624	7400
N6	0.625"(M16)	2	5.0	-5945	2629	7400
ANCHOR BOLT FOR -12'-6" POOL						
N4	0.5"(M12)	1	5.5	-1846	4711	4600
N5	0.75"(M20)	2	10.0	-18266	-8703	10600
N6	0.625"(M16)	2	7.0	-8702	2724	7400

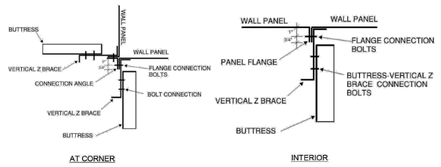


DETAIL 4'-6" PANEL ANCHOR BOLT LAYOUT 11
N.T.S.

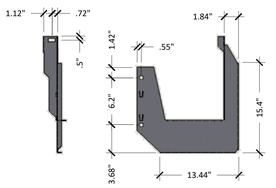
DETAIL 7'-0" PANEL ANCHOR BOLT LAYOUT 10
N.T.S.



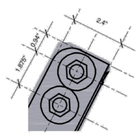
PLAN PANEL SECTION LAYOUT 1
N.T.S.

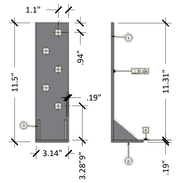


DETAIL PANEL TO PANEL CONNECTION DETAILS 12
N.T.S.

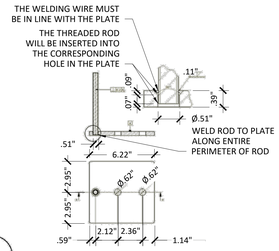


SECTION 4'-6" SECTION 3
N.T.S.





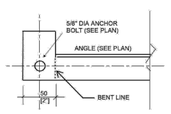
SECTION 6'-11 3/4" SECTION 2
N.T.S.

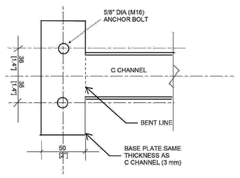


DETAIL GUTTER PLATE DETAIL 14
N.T.S.

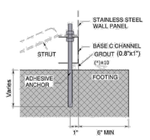
DETAIL BOLT DIMENSIONS 15
N.T.S.

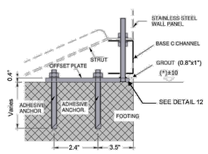
DETAIL VERTICAL SUPPORT PLATE 13
N.T.S.





DETAIL OFFSET PLATE DETAIL 12
N.T.S.





DETAIL SINGLE ANCHOR BOLT LAYOUT 7
N.T.S.

DETAIL DOUBLE ANCHOR BOLT LAYOUT 6
N.T.S.

DETAIL BASE FRAME WITHOUT OFFSET PLATE 5
N.T.S.

DETAIL BASE FRAME WITH OFFSET PLATE 4
N.T.S.

GENERAL:

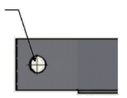
1. PROVIDE CONSTRUCTION CONFORMING TO THE 2022 CALIFORNIA BUILDING CODE.
2. THE DESIGN IS BASED ON THE FOLLOWING CRITERIA ESTABLISHED IN THE GEOTECHNICAL REPORT BY TECHNICON ENGINERRING SERVICES, INC. REPORT NUMBER, TES NO. 240282.001, DATED JUNE 12, 2024. AND EMAIL CLARIFICTAION DATED JULY 24, 2004 AND JULY 26,2024.
   EQUIVALENT LATERAL FLUID PRESSURE AT REST - UNDRAINED SOIL: 116.4 PSF/FT (54 PSF/FT+HYDRALUIC PRESSURE)
   SOIL DENSITY: 120 PCF SEISMIC EARTH PRESSURE FOR 12'-6" DEEP POOL: 55 PSF/FT
3. BACKFILLING WALLS:
   A. DEPOSIT BACKFILL AGAINST WALLS ACCORDING TO MYRTHA INSTRUCTIONS AND GEOTECHNICAL REPORT.
4. PROVIDE STRUCTURAL STEEL CONFORMING TO THE FOLLWING STANDARDS:
   A. ASCE 8-02 SPECIFICATION FOR THE DESIGN OF COLD FORMED STAINLESS STRUCTURAL MEMBERS.
5. UNLESS NOTED OTHERWISE, PROVIDE STRUCTURAL STEEL CONFORMING TO:
   A. PANELS AISI A441 LI AST Fy = 300 MPa (47.9 ksi)
   B. MEMBER AISI A441 LI AST Fy = 300 MPa (47.9 ksi)
6. UNLESS NOTED OTHERWISE, MAKE ALL BOLTED CONNECTIONS WITH AISI A4-70 OR A2-70 BOLTS WITH STANDARD WASHER.
   BOLT SHALL BE TIGHTENED PER AISC 370 SPECIFICATIONS
   BOLT INSPECTION SHALL HAVE PERIODIC INSPECTION ACCORDING TO AISC 370 M2.7 STANDARD.
   BOLT TESTING SHALL BE ACCORDING TO CBC 2213A. MINIMUM THREE SAMPLES PER LOT BUT NEED NOT EXCEED THREE SAMPLES PER 400 BOLTS.
7. MAKE ALL WELDED CONNECTIONS IN ACCORDANCE WITH AWS D1.1 "STRUCTURAL WELDING CODE". USING TYPE ASTM A308/316 ELECTRODES OR EQ. TEST AND INSPECTION SHALL BE ACCORDING TO DSA 103.
8. ANCHOR BOLTS FOR USE IN CRACKED AND UNCRACKED CONCRETE THAT HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES & ACI 318.
   A. HILTI HIT-HY 200 EPOXY ADHESIVE ANCHORING SYSTEM (ESR-4868), OR EQ.
   B, ANCHOR BOLTS SHALL HAVE 3" MINIMUM COVER AT BOTTOM OF FOOTING.
9. ANCHOR BOLT TEST FREQUENCY.
   A. WHEN THE DESIGN TENSION ON ANCHORS IS LESS THAN 100 LBS, 10 PERCENT OF THOSE ANCHOR SHALL BE TESTED.
   B. WHEN ANCHOR BOLTS ARE USED FOR STRUCTURAL APPLICATIONS, ALL ANCHORS SHALL BE TESTED.

DESIGN LOADS:

1. LIVE LOADS: (FOR SURCHARGE PRESSURE)
   POOL DECK =100 PSF
2. WIND DESIGN DATA: = N/A
3. SEISMIC DESIGN DATA:
   RISK CATEGORY = III
   SEISMIC IMPORTANCE FACTOR = 1.25
   MAPED SPECTRAL RESPONSE ACCELERATION PARAMETER, Ss = 0.967
   S1 = 0.336
   SITE CLASS = D
   DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETER, S_{DS} = 0.891
   S_{D1} = 0.672
   SEISMIC DESIGN CATEGORY = D
   BASIC SEISMIC FORCE RESISTING PROCEDURE = ASCE 7-16 CHAPTER 15.

MEMBER SECTION PROPERTIES:

1. BUTTRESS:
   CHANNEL: C2.6"X2.6"X0.12" ⌊
   CROSS SECTION AREA = 0.89 IN².
   ANGLE L 2.4"X2.4"X0.12"
   CROSS SECTION AREA = 0.55 IN².
2. STRUT:
   ANGLE L1.9"X1.2"X0.12" = 0.35 IN².
3. VERTICAL MEMBERS:
   9"ZX0.8"X0.1
   EFFECTIVE SECTION AREA = 0.64 IN².
   EFFECTIVE SECTION MODULUS, Se = 1.8 IN³.
   6"Zx0.8"x0.08"
   EFFECTIVE SECTION AREA = 0.42 IN².
   EFFECTIVE SECTION MODULUS, Se = 0.79 IN³.
4. CHANNEL:
   C3.2"X2.4"X0.08" ⌉
   SECTION MODULUS, S_x = 0.23 IN³.
   SECTION MODULUS, S_m = 1.19 IN³.



DETAIL STRUT BASE CONN. 16
N.T.S.

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Design | Engineering
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Stamp

REGISTERED PROFESSIONAL ENGINEER JAMES P. McCLELLAND No. C-21797 07/31/2027 STRUCTURAL STATE OF CALIFORNIA

8/1/2025

Engineer seal

JAMES P. McCLELLAND C-21797 07/31/2027 LICENSED ARCHITECT STATE OF CALIFORNIA

Project

Tranquility High School
United States

Lap Pool

STRUCTURAL DETAILS

Myrtha Pools
Commercial division of the A&T EUROPE SPA
46043 Castiglione delle Stiviere (MN)
TEL. 0376-94361
FAX 0376-631482
e-mail:
info@myrthapools.com
info@piscinecastiglione.it

TECHNICAL DATA

Technology	
MYRTHA CALIFORNIA GUTTER	
Dimension (ft)	Perimeter (ft)
92' - 0" x 75' - 1"	334'-2"
Surface (ft²)	3D Model Water Volume (gal)
6909	352352

N° Project	
6124008	
Drawing number	Scale
0665604	

NOTE: NOT FOR CONSTRUCTION

HATCH LEGEND (IF THESE)
SAND
STRUCTURAL CONCRETE
SOFTWALK
GROUND
GRAVEL
CONCRETE FILL
OTHERS ELEMENTS CUT

Rev.	Date	Des.	Ver.

N° Sheet
S-1

ARCH E1

SEAL

PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

MYRTHA DETAILS

PHASE DESCRIPTION
100% CD - DSA APPROVAL
INCREMENT 1

DATE: 9/24/2025

TECHNICIAN:

PROJECT MANAGER:

JOB NUMBER: 791

SHEET NUMBER
SP1.8-1

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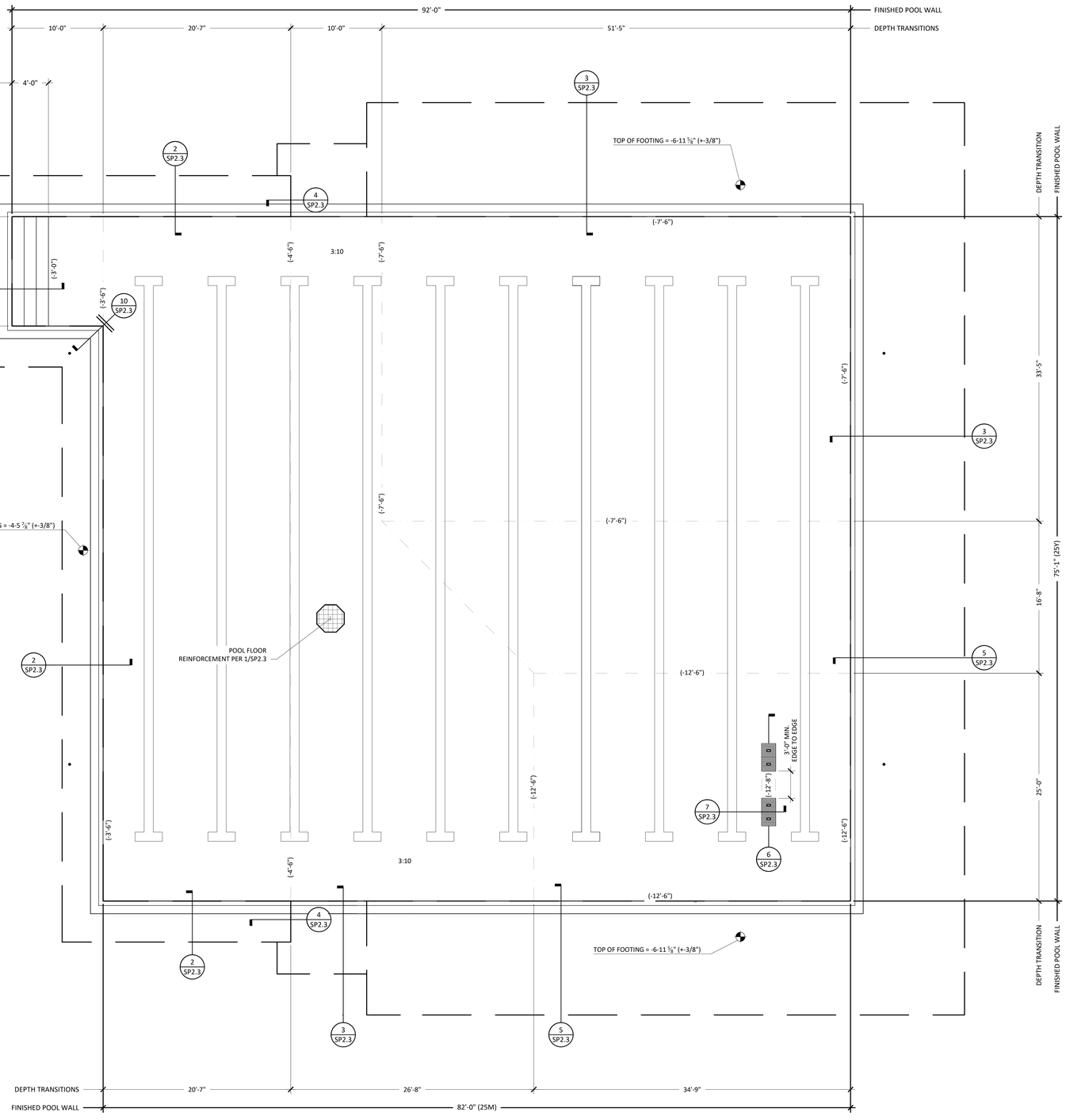

STRUCTURAL GENERAL NOTES:

1. THE POOL SHALL BE EXCAVATED INTO FIRM SOIL SUITABLE TO SUPPORT THE SWIMMING POOL AS DETERMINED BY THE PROJECT GEOTECHNICAL ENGINEER.
2. ALL PLAN DIMENSIONS ARE TO POOL FINISH AND SHALL BE VERIFIED PRIOR TO THE START OF WORK IN ACCORDANCE WITH ARCHITECT DRAWINGS.
3. ANY CHANGES OR UNCLEAR PORTIONS OF THIS PLAN SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING.
4. ALL APPLICABLE STATE AND LOCAL LAWS AND CODES SHALL BE FOLLOWED.
5. ANY CONDITION NOT SPECIFICALLY COVERED IN THIS PLAN OR UNUSUAL CONDITIONS ENCOUNTERED DURING EXCAVATION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING.
6. ALL SITE GRADING SHALL BE PERFORMED IN CONFORMANCE WITH THE PROJECT SOILS REPORT. SOILS BELOW EXTERIOR FLAT WORK SHALL BE PREPARED IN ACCORDANCE WITH PROJECT SOILS REPORT.
7. FOR AREAS WHERE A RAMP HAS BEEN EXCAVATED AND BACKFILL IS NOT COMPACTED TO A MIN. 90% MAXIMUM DRY DENSITY OF THE ASTM D1557 COMPACTION TEST, REINFORCEMENT SHALL BE SPACED NO LESS THAN 6 INCH CENTERS EACH WAY. THE EXTRA HORIZONTAL REINFORCEMENT SHALL EXTEND 3 FEET PAST THE EDGE OF THE RAMP EXCAVATION ON EITHER SIDE. SHOTCRETE COVER OVER THE REINFORCEMENT ON THE OUTSIDE OF THE POOL SHALL BE INCREASED FROM 3 TO 4 INCHES.
8. EXPANSIVE SOILS SHALL BE MAINTAINED AT AN ELEVATED MOISTURE CONTENT DURING CONSTRUCTION AND IMMEDIATELY PRIOR TO CONCRETE PLACEMENT.

DESIGN BASIS:

1. 2022 CALIFORNIA BUILDING CODE (CBC)
2. GEOTECHNICAL INVESTIGATION BY TECHNICON PN: 240282.001 ON JUNE 12, 2024.

DESIGN PARAMETERS:

1. ALLOWABLE BEARING CAPACITY: 2,000 PSF
2. SEISMIC: S_{DS} = 0.891g S_{D1} = 0.672g

MATERIALS:

1. CONCRETE: THE SPECIFIED CONCRETE IS FOR USE IN THE SWIMMING POOL FOOTINGS, SWIMMING POOL FLOORS AND SPLASHPAD FLOOR.
   A. NORMAL WEIGHT CONCRETE SHALL BE MIXED AND PROPORTIONED IN ACCORDANCE WITH ACI 301. CEMENT TO AGGREGATE, IN DRY WEIGHT, SHALL NOT BE LESS THAN ONE TO FIVE.
   B. MINIMUM COMPRESSIVE STRENGTH, f'_c, SHALL BE 4,500 PSI @ 28 DAYS
   C. SLUMP- 3 INCH ± 1 INCH
   D. AGGREGATE: 1 INCH MAX
   E. CEMENT CONTENT: 600 LBS/YDS MIN.
   F. W/C RATIO: 0.45 MAX
   G. SHRINKAGE AT 28 DAYS (PER ASTM C-157) SHALL NOT EXCEED 0.055% FOR DRY CURING.
   H. CEMENT USED SHALL BE ASTM C150, TYPE II/V CEMENT. FLY ASH MAY BE USED PROVIDED THE FLY ASH CONTENT DOES NOT EXCEED 15% OF THE CEMENTITIOUS MATERIAL CONTENT. FLY ASH SHALL BE ASTM C618, CLASS C OR F.
   I. CONCRETE SHALL BE PLACED ON OR AGAINST FIRM UNDISTURBED SOIL.
   J. ALL ELECTRICAL SHALL BE SECURELY GROUNDED BEFORE CONCRETE IS PLACED.
2. REINFORCEMENT:
   A. USE CBC SECTION 19A, ACI 318 AND ACI 506 AS A GUIDELINE.
   B. LAP SPLICES SHALL BE 60 BAR DIAMETERS.
   C. REINFORCMENET SHALL BE GRADE 60, MINIMUM TENSILE STRENGTH: 80 KSI
   D. 3" MIN COVER FOR REINFORCEMENT TO SOIL.
   E. UP TO 2 INCH DIAMETER PIPES MAY BE PLACED IN THE LOWER OUTSIDE CORNER OF THE BOND BEAM. A 1.5 INCH CLEARANCE SHALL BE MAINTAINED BETWEEN PIPING AND ANY PARALLEL REINFORCEMENT. IF METAL PIPING IS USED AND IS PLACED IN SHOTCRETE, IT SHALL BE WRAPPED IN VISQUEEN OR HEAVY BROWN PAPER, EXCEPT WHERE IT PASSES PERPENDICULARLY THROUGH THE SHOTCRETE.
   F. DECK DOWELS BETWEEN THE BOND BEAM AND ADJACENT DECKING SHALL NOT BE USED.
   G. CONTRACTOR SHALL PROVIDE +2% ALLOWANCE FOR REINFORCING STEEL TO BE USED AT THE DISCRETION OF THE ENGINEER.
   H. CLEARANCE BETWEEN #5 BARS AND SMALLER SHALL BE MINIMUM 2 1/2 INCH. CLEARANCES BETWEEN #6 BARS AND GREATER SHALL BE MINIMUM 6 X BAR DIA.
3. GRAVEL UNDERDRAIN:
   A. PER THE PROJECT GEOTECHNICAL ENGINEER, a 6 INCH GRAVEL UNDERDRAIN SHALL BE INSTALLED BELOW THE POOL FLOOR. GRAVEL SHALL CONSIST OF CALTRANS CLASS II PERMEABLE MATERIAL. THE BASE OF THE DRAINAGE LAYER SHALL BE SLOPED AT LEAST 2 PERCENT TOWARDS A LOW POINT NEAR THE CENTER OF THE EXCAVATION, WHICH SHALL CONTAIN A SHALLOW TRENCH FOR A SUBDRAIN. AN IMPERVIOUS MEMBRANE SHOULD BE PROVIDED BELOW THE BOTTOM OF THE PERMEABLE GRAVEL.
   B. PER THE PROJECT GEOTECHNICAL ENGINEER, 4 INCH DIAMETER PERFORATED SDR 35 OR EQUIVALENT. PIPE SHALL BE INSTALLED IN THE GRAVEL AT THE BASE OF THE SUBDRAIN TRENCH AND SHALL SLOPE AT 1% MIN. SLOPE TO AN APPROPRIATE DISCHARGE POINT THAT CAN BE PERIODICALLY OBSERVED FOR LEAKAGE. PIPE SHOULD BE PLACED WITH PERFORATIONS DOWN WITH ALL JOINTS GLUED. PIPE SHALL BE SOLID PAST THE EXTENTS OF THE GRAVEL BLANKET.
   C. A RELIEF VALVE SHOULD BE INSTALLED AT THE BOTTOM OF THE POOL TO REDUCE THE RISK OF HYDROSTATIC UPLIFT OF THE POOL WHEN EMPTY PER THE PROJECT SOILS ENGINEER.
4. BOND BREAK:
   A. BOND BREAK SHALL CONSIST OF 10 MIL SHEET VINYL OR 20 LB ROOFING FELT.

CRACK REPAIR:

1. SHRINKAGE CRACK TOLERANCE: 0.02 INCH. CRACKS TO BE REPAIRED SHALL BE V-NOTCHED TO A MINIMUM DEPTH OF 3/4 INCH AND FILLED WITH PATCHING MORTAR PRIOR TO PLASTER.

REMODEL NOTES:

1. WHERE NEW SHOTCRETE/CONCRETE IS PLACED AGAINST EXISTING CONCRETE OR SHOTCRETE, THE INTERFACE SHALL BE CLEAN AND FREE OF LAITANCE. THE INTERFACE IS TO BE INTENTIONALLY ROUGHENED TO 1/4" AMPLITUDE. ALL LOOSE OR DETERIORATED MATERIAL IS TO BE REMOVED. (E) CONCRETE/SHOTCRETE TO BE AT A STANDARD SATURATED SURFACE DRY CONDITION AT THE INTERFACE PRIOR TO PLACEMENT ON (N) CONCRETE/SHOTCRETE. APPLY EPOXY BONDING ADHESIVE TO INTERFACE PRIOR TO (N) SHOTCRETE PLACEMENT.
2. EPOXY TO BE SELECTED FROM THE FOLLOWING LIST OR AN APPROVED EQUAL. ALL HOLES SHOULD BE BLOWN OUT WITH COMPRESSED AIR PRIOR TO INSTALLING EPOXY TO ENSURE GOOD BOND. INSTALL EPOXY PER MANUFACTURERS ICC REPORT,
   SIMPSON SET-3G ICC-ES REPORT ESR-4057
   HILTI HIT-HY 150 MAX SD ICC-ES REPORT ESR-3013

REQUIRED SPECIAL INSPECTIONS:

1. EXCAVATION INSPECTION.
2. REINFORCEMENT PLACEMENT INSPECTION.
3. CONCRETE PLACEMENT INPSECTION.
4. COMPACTION TESTING OF ALL EARTH WORK.

REQUIRED TESTING:

1. CONCRETE COMPRESSION TEST FOR f'_c > 3,000 PSI (EVERY 50 CU YDS)

SEE APPROVED DSA 103 FOR COMPLETE LISTING OF STRUCTURAL TESTS AND SPECIAL INSPECTIONS.

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LICENSED ARCHITECT
JAMES P. McCLELLAND
C-21797
07/31/2026
STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

COMPETITION POOL FOUNDATION PLAN

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: RD
PROJECT MANAGER: BR
JOB NUMBER: 791

SHEET NUMBER
SP2.0-1

COMPETITION POOL FOUNDATION PLAN
3/16" = 1'-0"
1

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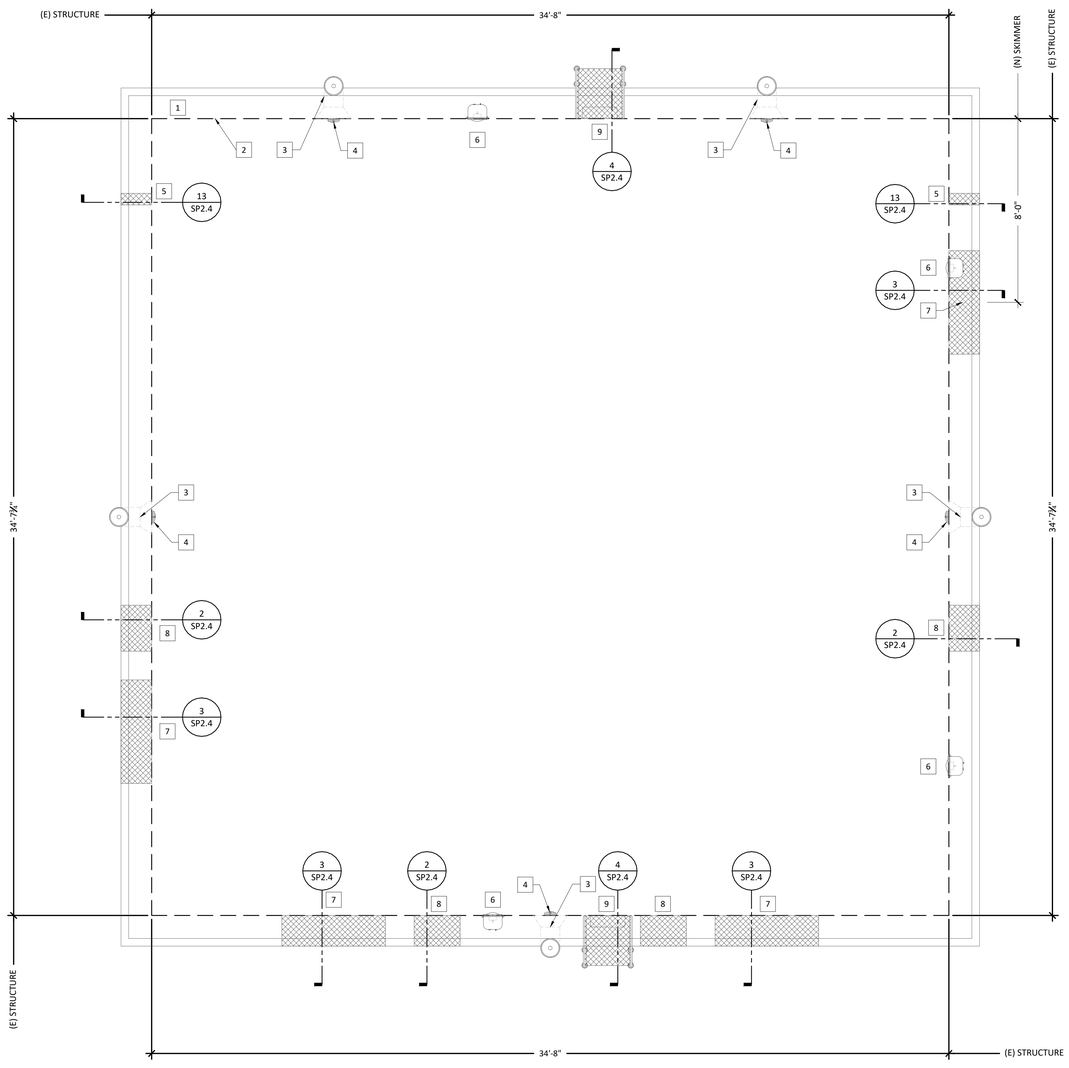
TEACHING POOL DEMOLITION KEYNOTES:

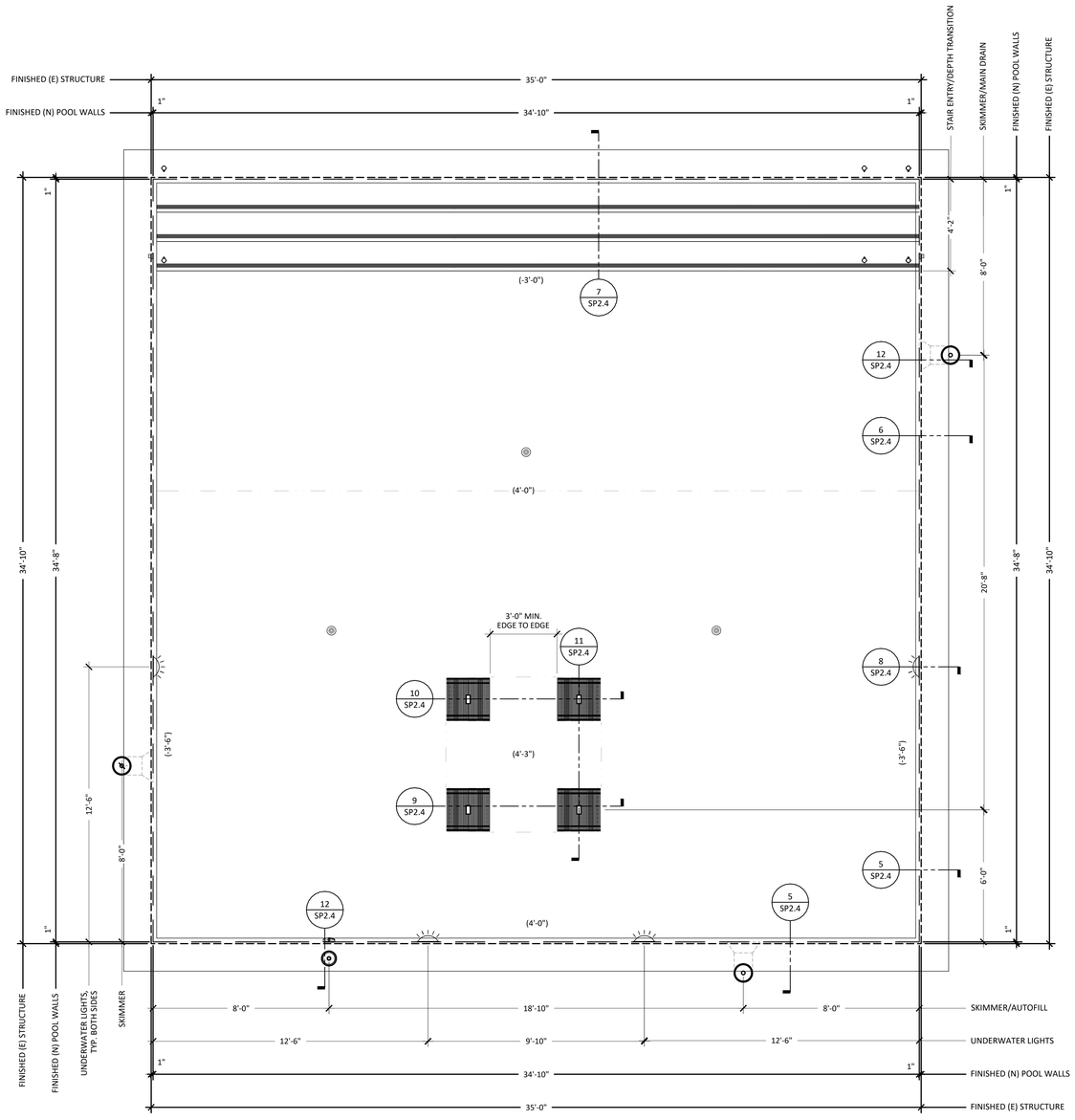
1. (E) COPING TO BE DEMOLISHED, TYP.
2. DEMO PLASTER AND CHIP WALL MIN 0.5" MAX 2" AS REQUIRED. INSTALL VERTICAL SIKA EMACO 488 MIN 0.25" MAX 2.0" TO ACHIEVE FINISHED DIMENSIONS.
3. (E) SKIMMER TO REMAIN, TYP.
4. (E) EQUALIZER COVER TO BE REMOVED AND LINE TO BE CAPPED, TYP.
5. (E) POOL SHELL TO BE CORED FOR INSTALLATION OF (N) WALL RETURN, TYP.
6. (E) LIGHT NICHE TO REMAIN, (E) LIGHT FIXTURE TO BE REMOVED, TYP.
7. BOND BEAM DEMOLITION PER 1/SP2.4 FOR (N) SKIMMER/AUTOFILL INSTALLATION, TYP.
8. (E) POOL SHELL PARTIAL DEMOLITION PER 2/SP2.4 FOR INSTALLATION OF (N) UNDERWATER LIGHT NICHE, TYP.
9. (E) RECESSED STEP INSERTS TO BE DEMOLISHED AND FILLED WITH NON-SHRINK GROUT COMPATIBLE WITH SIKA EMACO 488. (E) FIGURE 4 HANDRAILS TO BE DEMOLISHED.



(E) TEACHING POOL DEMOLITION PLAN

3/8" = 1'-0"

2



(N) TEACHING POOL STRUCTURAL PLAN

3/8" = 1'-0"

2

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07/31/2026
STATE OF CALIFORNIA

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AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

TEACHING POOL STRUCTURAL PLAN

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

DATE: 9/24/2025

TECHNICIAN: RD

PROJECT MANAGER: BR

JOB NUMBER: 791

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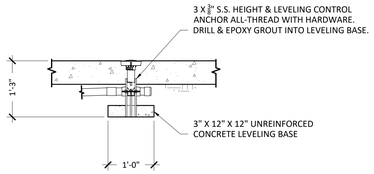
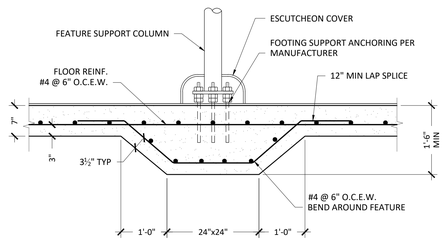
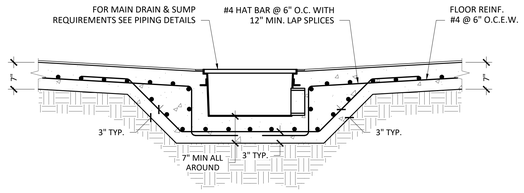


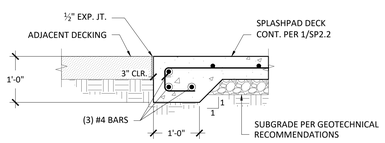
SPRAY FEATURE FOUNDATION 6
3/4" = 1'-0"



PLAY FEATURE ANCHOR FOUNDATION 5
3/4" = 1'-0"

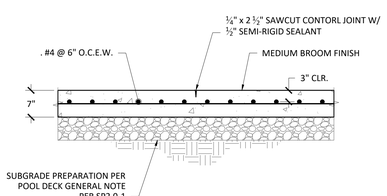


SPLASHPAD MAIN DRAIN 4
3/4" = 1'-0"

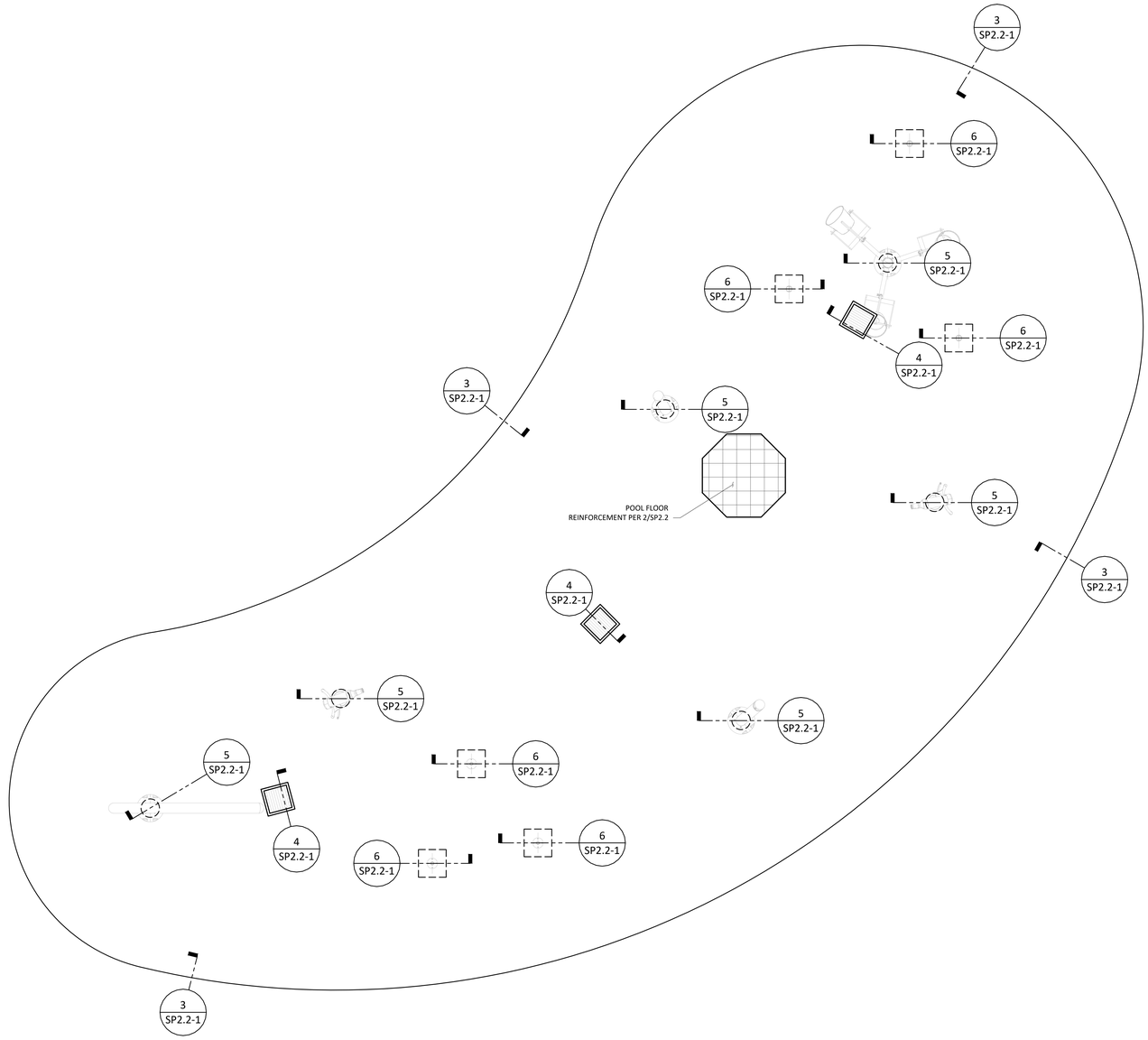


SPLASHPAD DECK EDGE 3
3/4" = 1'-0"

JOINT NOTES:
1. REFER TO A1.115-1 FOR CONTROL JOINT SPACING AND LOCATIONS.
2. CONTRACTOR SHALL SUBMIT LAYOUT PLAN SHOWING PROPOSED CONTROL AND CONSTRUCTION JOINT LOCATIONS.
3. SEMI-RIGID SEALANT TO BE METZGER/MCGUIRE "MM-80" OR EQUAL.



TYPICAL SPLASHPAD SLAB 2
3/4" = 1'-0"



NOTE:
REFER TO A1.15-1 FOR SPLASHPAD LAYOUT DIMENSIONS.

SPLASH PAD STRUCTURAL PLAN 1
1/2" = 1'-0"

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CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

SPLASH PAD STRUCTURAL PLAN

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: RD
PROJECT MANAGER: BR
JOB NUMBER: 791

SHEET NUMBER
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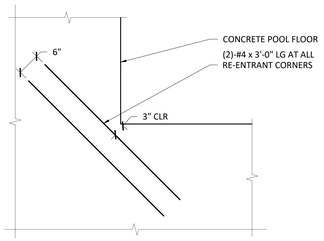
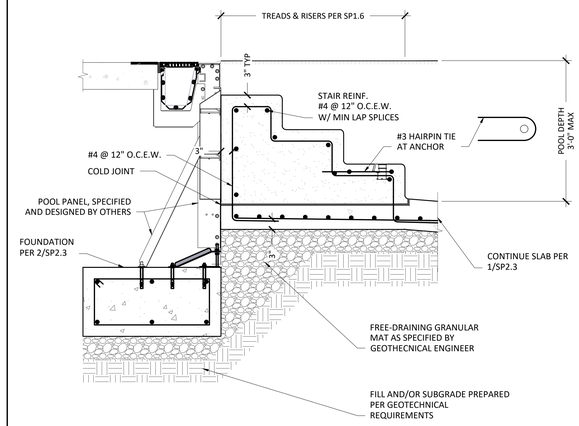
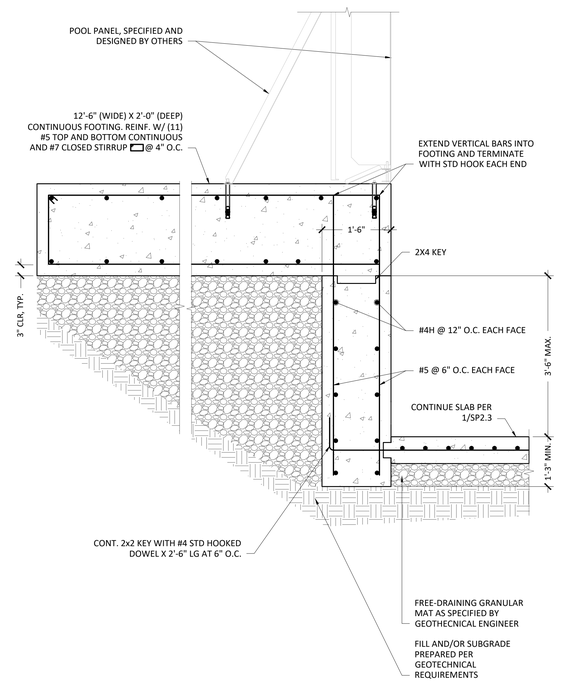


TYPICAL ADDITIONAL REINF AT RE-ENTRANT CORNERS
NTS — 10



NOTE:
BACKFILL, DECK, AND DRAINS (SPECIFIED BY OTHERS) OMITTED FOR CLARITY.

COMPETITION POOL STAIRS
NTS — 8



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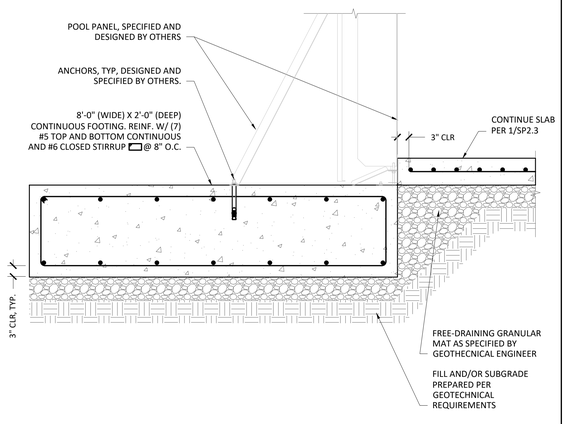
TYPICAL FLOOR BELOW 4FT WALL FOOTING SECTION
3/4"=1'-0" — 5



NOTE:
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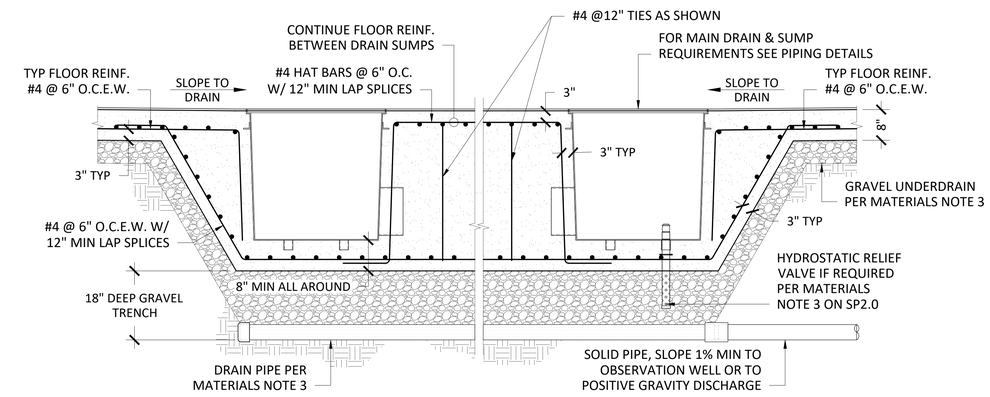
7 FT WALL PANEL FOOTING
3/4"=1'-0" — 3

TYPICAL CORNERS BAR DETAIL
NTS — 9

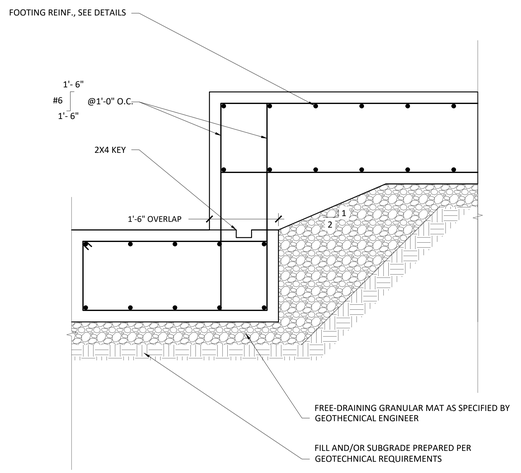
TYPICAL ADDITIONAL REINF AT RE-ENTRANT CORNERS
NTS — 7

NOTE:
BACKFILL, DECK, AND DRAINS (SPECIFIED BY OTHERS) OMITTED FOR CLARITY.

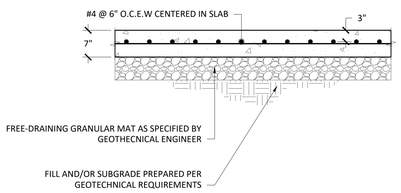
4.5 FT WALL PANEL FOOTING
3/4"=1'-0" — 2



7 FT WALL PANEL FOOTING
3/4"=1'-0" — 6



TYPICAL STEP IN FOOTING
NTS — 4



TYPICAL POOL FLOOR SLAB
NTS — 1

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SEAL

LICENSED ARCHITECT
JAMES P. McCLELLAND
C-21797
07/31/2026
STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

COMPETITION POOL STRUCTURAL DETAILS

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: RD
PROJECT MANAGER: BR
JOB NUMBER: 791

SHEET NUMBER
SP2.3-1

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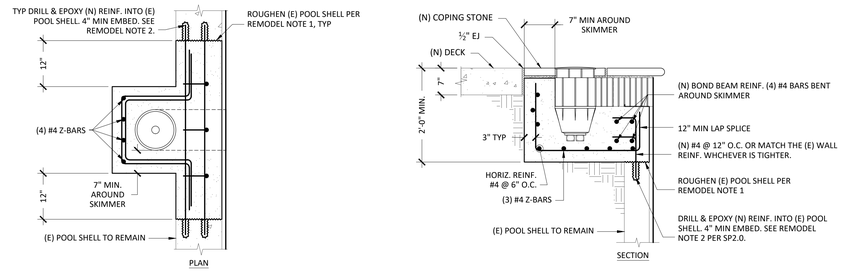
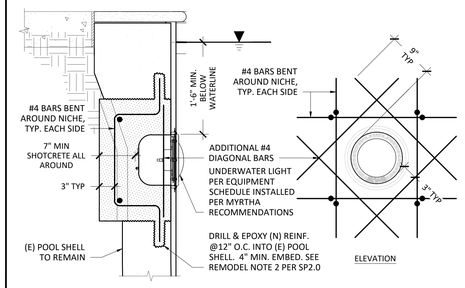
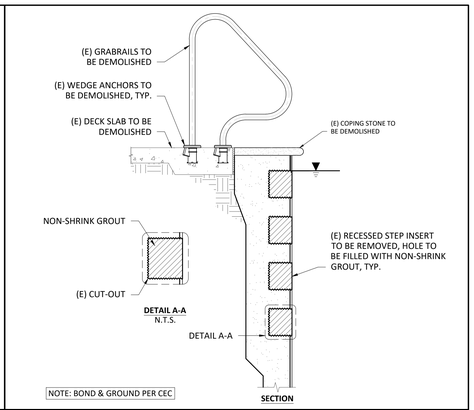


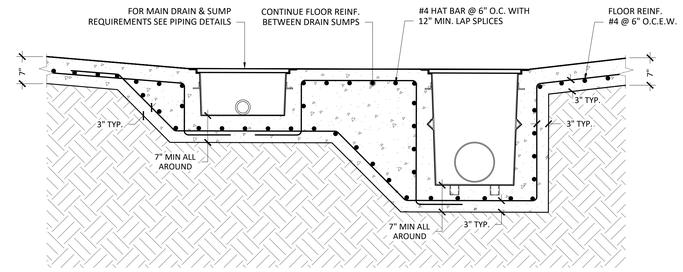
SKIMMER & AUTOFILL REPLACEMENT
3/4" = 1'-0" — 12



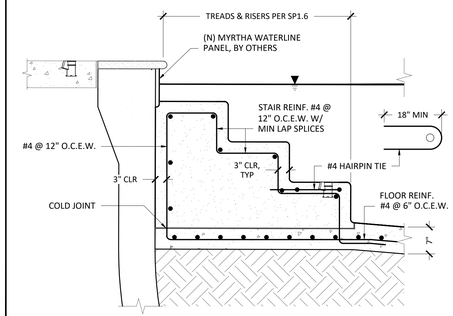
(N) UNDERWATER LIGHT
1" = 1'-0" — 8



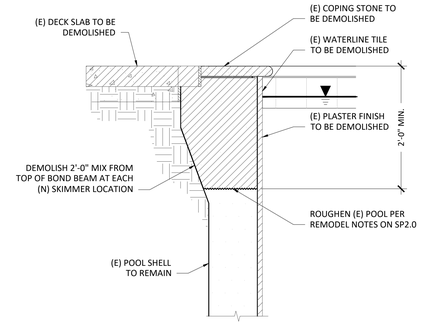
(E) RECESSED STEP DEMOLTION
1" = 1'-0" — 4



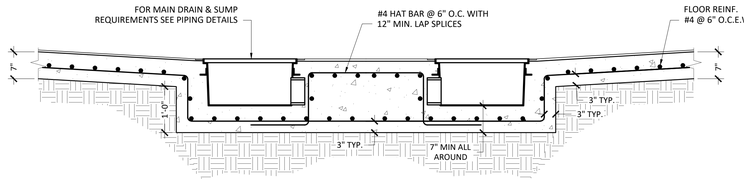
TEACHING POOL MAIN DRAINS
3/4" = 1'-0" — 11



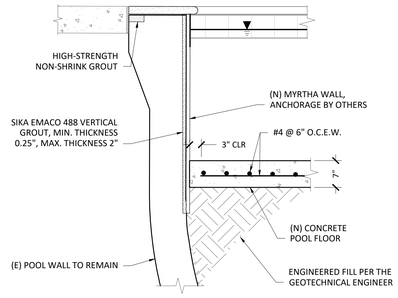
(N) POOL STAIRS
3/4" = 1'-0" — 7



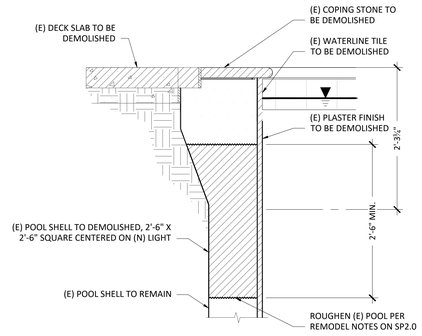
(N) SKIMMER LOCATION DEMOLITION
1" = 1'-0" — 3



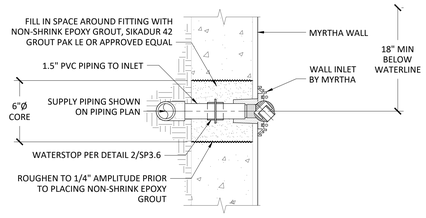
TEACHING POOL SLIDE RECIRCULATION MAIN DRAINS
3/4" = 1'-0" — 10



(N) MYRTHA WALL SHALLOWER THAN (N) POOL FLOOR
3/4" = 1'-0" — 6

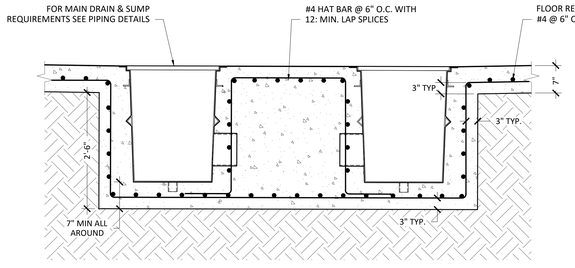


(N) LIGHT NICHE DEMOLITION
1" = 1'-0" — 2

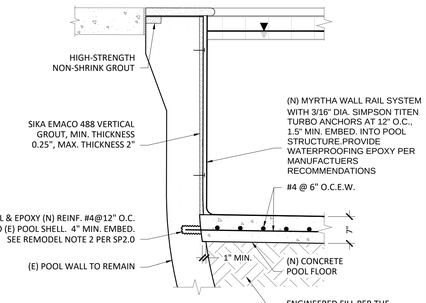


CAP PIPE & HYDROSTATICALLY TEST PER SPECIFICATIONS BEFORE CONCEALING

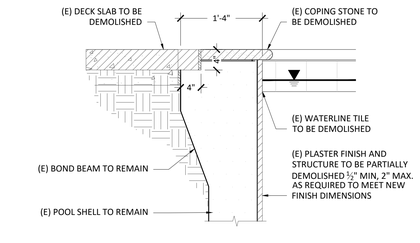
(N) WALL RETURN INLET IN (E) WALL
3/4" = 1'-0" — 13



TEACHING POOL RECIRCULATION MAIN DRAIN
3/4" = 1'-0" — 9



(N) MYRTHA WALL DEEPER THAN (N) POOL FLOOR
3/4" = 1'-0" — 5



NOTE:
1. CONTRACTOR TO CONFIRM BOND-BEAM DIMENSION ONSITE.
2. EXPOSED REINFORCEMENT TO BE COATED WITH SIKA ARMATEC EPOCHEM 110.

(E) BOND BEAM DEMOLITION
1" = 1'-0" — 1

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JAMES P. McCLELLAND C-21797 07/31/26 LICENSED ARCHITECT STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

TEACHING POOL STRUCTURAL DETAILS

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: RD
PROJECT MANAGER: BR
JOB NUMBER: 791

SHEET NUMBER
SP2.4-1

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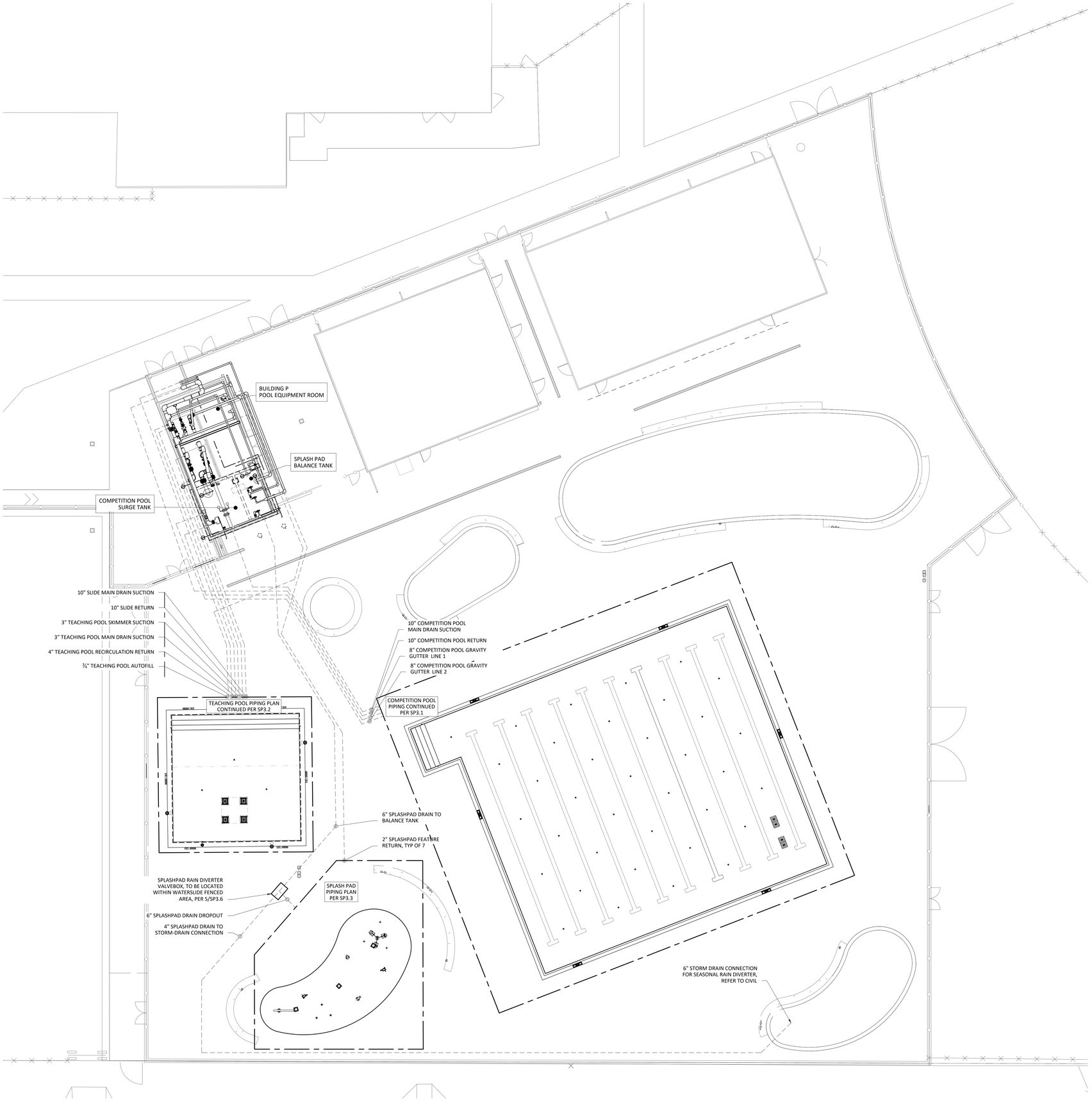
SITE PIPING NOTES:

1. OVERALL PIPING IS SHOWN IN DIAGRAMMATIC FORM TO INDICATE WORK TO BE DONE RATHER THAN TO SHOW EXACT ROUTING & LOCATION. MAKE USE OF ALL DATA IN CONTRACT DOCUMENTS, VERIFY AGAINST DEVELOPED FIELD CONDITIONS, & INSTALL WORK IN AN ORDERLY ARRANGEMENT IN A MANNER TO OVERCOME STRUCTURAL, MECHANICAL & ELECTRICAL INTERFERENCE.
2. TO BE USED IN CONJUNCTION WITH INDIVIDUAL POOL PIPING PLANS. FOR INFORMATION NOT SHOWN REFER TO INDIVIDUAL POOL PIPING PLANS.
3. ALL SUBGRADE WORK TO BE COMPLETED PRIOR TO TRENCHING AND INSTALLATION OF BELOW GRADE POOL PIPING.
4. POOL PIPING PLACED IN TRENCHES SHALL NOT BE STACKED ABOVE/BELOW PARALLEL PIPES.
5. PIPING SHALL NOT PENETRATE THROUGH THE VAULT FLOOR.
6. ALL PIPING PAST VAULTS TO BE SCHEDULE 40 CPVC UNLESS NOTED OTHERWISE.



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APP: 02-123309 INC: 1
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SS ☑ FLS ☑ ACS ☑
DATE: 9/30/2025

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LICENSED ARCHITECT
JAMES P. McCLELLAND
C-21797
07/31/2027
STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

SITE PIPING PLAN

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: RD
PROJECT MANAGER: BR
JOB NUMBER: 791

SHEET NUMBER
SP3.0-1

SITE PIPING PLAN
3/32" = 1'-0"

1

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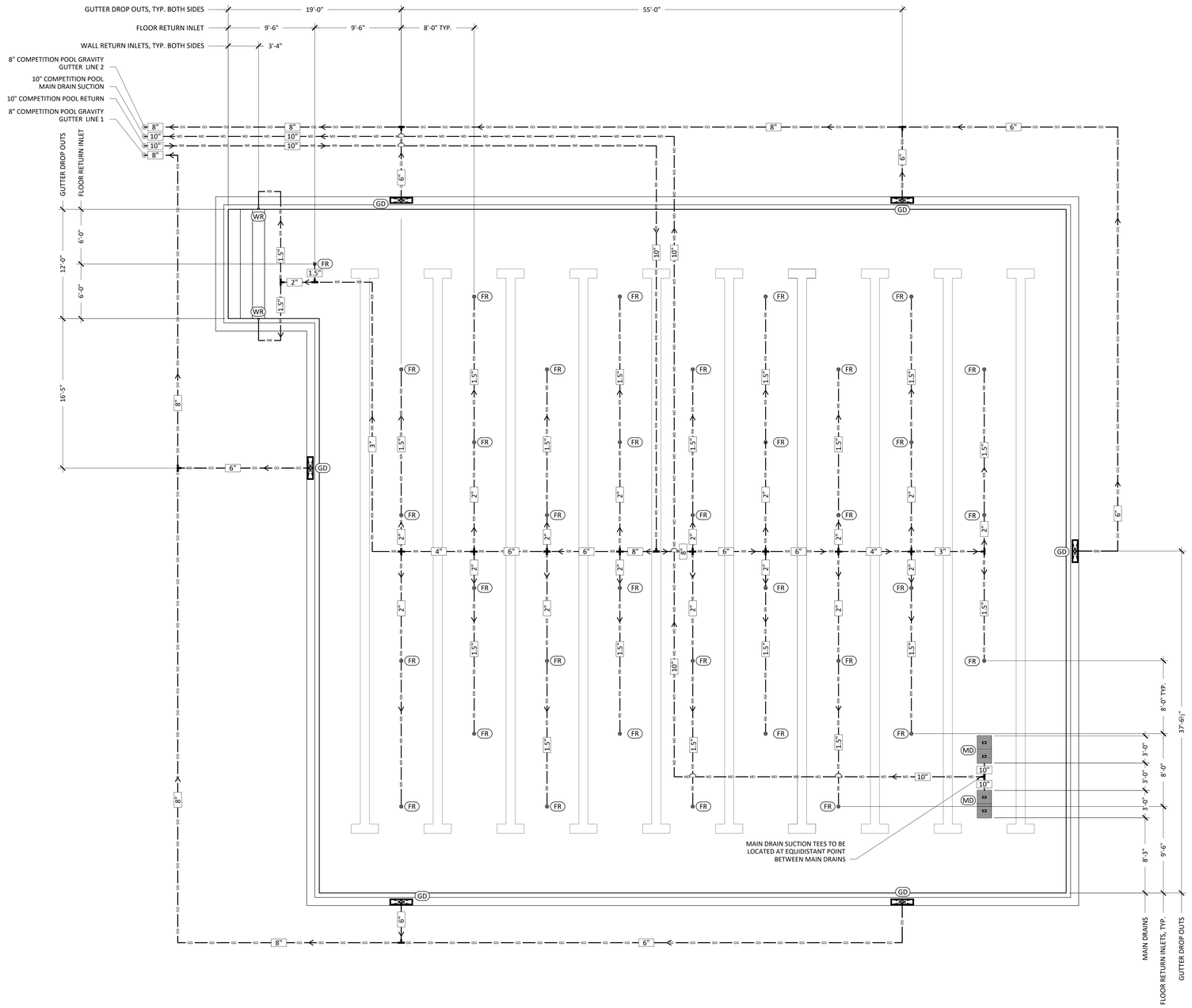

COMPETITION POOL PIPING NOTES:

1. ALL PIPING SHALL BE NSF APPROVED (ANSI/NSF14), SCHEDULE 80 PVC (UNLESS OTHERWISE NOTED). PVC PIPE INSTALLED SHALL CONFORM TO THE REQUIREMENT OF TECHNICAL REPORT PPI-TTR 13 (8/73). PLASTIC PIPE INSTITUTE.
2. POOL CONTRACTOR SHALL INSTALL PIPING IN AN EFFICIENT MANNER TO REDUCE PRESSURE LOSSES.
3. PIPING SHALL BE INSTALLED WITHOUT AIR ENTRAPPING HIGH POINTS OR REVERSE SLOPES, I.E. ON DISCHARGE LINES, NO DESCENDING RUNS BEYOND HORIZONTAL OR ASCENDING RUNS; ON SUCTION LINES, NO DESCENDING RUNS BEYOND ASCENDING RUNS.
4. ALL UNDERGROUND PRESSURE AND SUCTION PIPING SHALL SLOPE A MINIMUM OF 1%.
5. THE TEE FEEDING FROM THE COMMON LINE BETWEEN THE SUCTION OUTLETS, TO THE PUMP(S) SHALL BE LOCATED APPROXIMATELY MIDWAY BETWEEN THE OUTLETS (ANSI/APSP-7).
6. ALL POOL RELATED PIPING, SHALL BE HYDRAULICALLY PRESSURE TESTED (WITH WATER, NOT AIR) TO A PRESSURE OF NOT LESS THAN 80 PSI FOR A PERIOD OF NO LESS THAN ONE (1) HOUR. CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF A SUSTAINED 30 PSI PRESSURE ON ALL POOL RELATED PIPING THROUGHOUT THE COURSE OF CONSTRUCTION.
7. ALL DRAIN FITTINGS TO CARRY 100% OF RECIRCULATION RATE NOT TO EXCEED MAX RATED FLOW RATE FOR SELECTED DRAIN FITTING WHEN ONE OUTLET FITTING IS COVERED.
8. MAIN DRAIN PIPING SHALL CARRY 100% OF RECIRCULATION RATE AT A VELOCITY NOT TO EXCEED 6' PER SECOND.
9. ALL PIPING DESIGNED FOR 6' PER SECOND MAXIMUM SUCTION, 8' PER SECOND MAXIMUM PRESSURE, AND 3' PER SECOND MAXIMUM GRAVITY.
10. VERIFY PIPE SIZES WITH THE EQUIPMENT ROOM PLAN AND SCHEMATIC. IF THERE ARE ANY DISCREPANCIES, REPORT THEM TO THE ARCHITECT/ENGINEER IMMEDIATELY.
11. POOL CONTRACTOR SHALL COORDINATE ALL WORK WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL AND STRUCTURAL DRAWINGS.
12. OVERALL PIPING IS SHOWN IN DIAGRAMMATIC FORM TO INDICATE WORK TO BE DONE RATHER THAN TO SHOW EXACT ROUTING & LOCATION. MAKE USE OF ALL DATA IN CONTRACT DOCUMENTS, VERIFY AGAINST DEVELOPED FIELD CONDITIONS, & INSTALL WORK IN AN ORDERLY ARRANGEMENT IN A MANNER TO OVERCOME STRUCTURAL, MECHANICAL & ELECTRICAL INTERFERENCE.

COMPETITION POOL DESIGN DATA	
SIZE (LENGTH BY WIDTH):	92 FT - 75 FT
DEPTH PROFILE:	3 FT 0 IN - 12 FT 6 IN
SURFACE AREA:	6,277 SF
PERIMETER:	334 FT
VOLUME:	352,352 GAL
MAX BATHER LOAD:	313 BATHERS

COMPETITION POOL SYSTEM DESIGN DATA	
TURNOVER RATE:	5.87 HRS
RECIRCULATION RATE:	1000 GPM
FILTER AREA:	66.00 SF
FILTRATION RATE:	15.15 GPM/SF
BACKWASH FLOW RATE:	297 GPM

COMPETITION POOL SUCTION OUTLET DATA	
RECIRCULATION PUMP MAX FLOW RATE @60FT:	1000 GPM
MAIN DRAIN MAX APPROVED FLOW RATE:	2480 GPM
SUCTION PIPE VELOCITY @ DESIGN FLOW RATE:	4.09 FPS

COMPETITION POOL RECIRCULATION EQUIPMENT SCHEDULE

CALL OUT	EQUIPMENT	MODEL/DESCRIPTION	DETAIL
MD	MAIN DRAIN	DALDERADO 18 X 36 X 28 SUMP AND GRATE, 10" PORT, MAXIMUM FLOW RATE 2,480 GPM WITH MYRTHA COLLAR	1/SP3.4
GD	GUTTER DROP BOX	GUTTER DROP BOX BY MYRTHA	4/SP3.4
FR	FLOOR RETURN INLET	1.5" FLOOR INLET BY MYRTHA	5/SP3.4
WR	WALL RETURN INLET	2" WALL RETURN INLET BY MYRTHA	3/SP3.4

ALL EQUIPMENT NOTED ARE BASIS OF DESIGN & DESIGNATE MINIMUM PERFORMANCE STANDARDS. EQUIVALENT PRODUCTS MAY BE USED PROVIDED THEY ARE SUBMITTED TO ENGINEER OF RECORD FOR APPROVAL.

PIPING PLAN LEGEND	
SYMBOL/LINE	DESCRIPTION
GG	GUTTER GRAVITY
RR	RECIRCULATION RETURN
MD	MAIN DRAIN SUCTION
AF	AUTOFILL

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LICENSED ARCHITECT
JAMES P. McCLELLAND
C-21797
07/31/2027
STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

COMPETITION POOL PIPING PLAN

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

DATE: 08/06/2025
TECHNICIAN: RD
PROJECT MANAGER: BR
JOB NUMBER: 791

SHEET NUMBER
SP3.1-1

COMPETITION POOL PIPING PLAN
3/16" = 1'-0"

1

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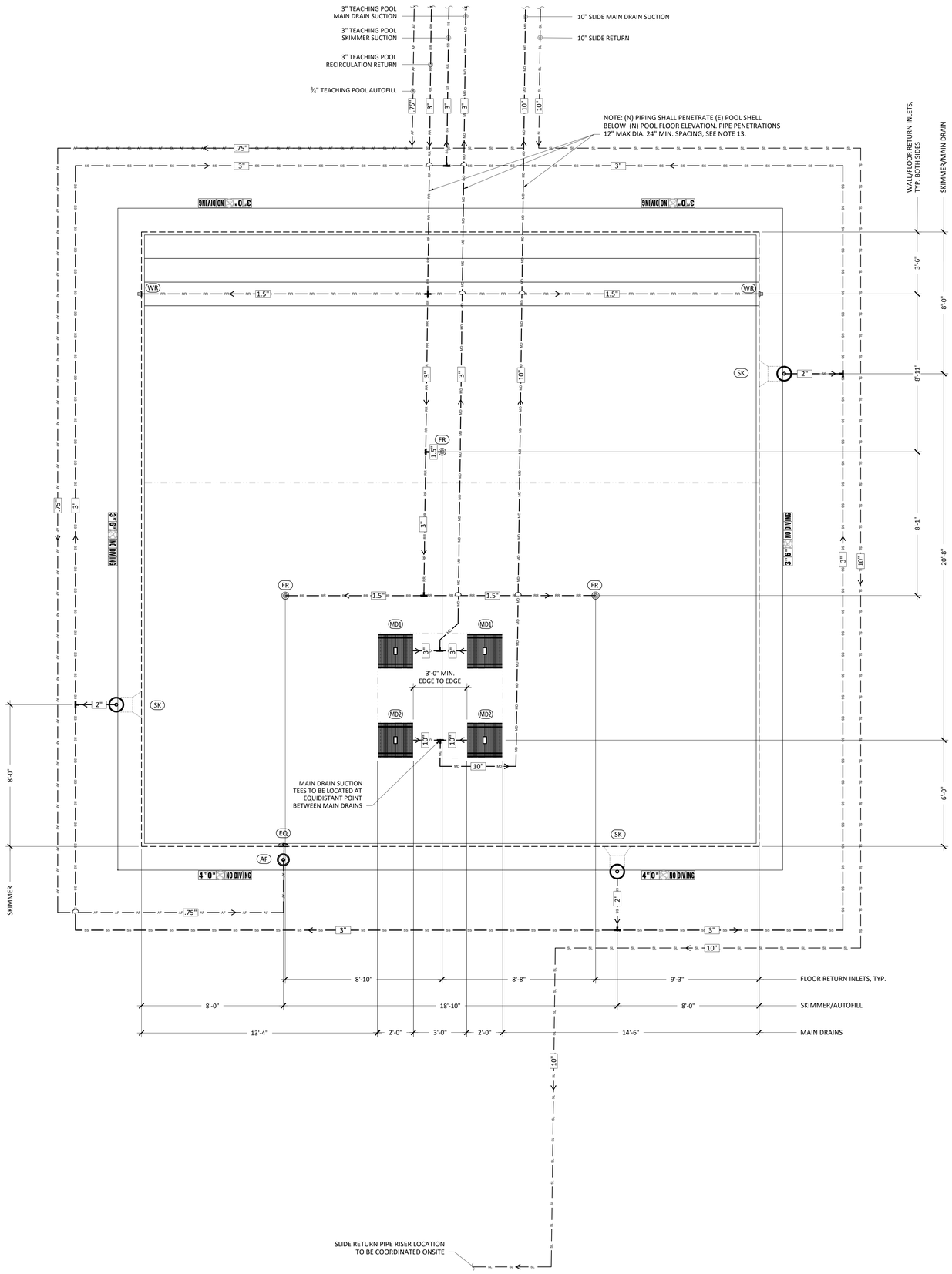

TEACHING POOL PIPING NOTES:

1. ALL PIPING SHALL BE NSF APPROVED (ANSI/NSF14), SCHEDULE 80 PVC (UNLESS OTHERWISE NOTED). PVC PIPE INSTALLED SHALL CONFORM TO THE REQUIREMENT OF TECHNICAL REPORT PPI-TTR 13 (8/73). PLASTIC PIPE INSTITUTE.
2. POOL CONTRACTOR SHALL INSTALL PIPING IN AN EFFICIENT MANNER TO REDUCE PRESSURE LOSSES.
3. PIPING SHALL BE INSTALLED WITHOUT AIR ENTRAPPING HIGH POINTS OR REVERSE SLOPES, I.E. ON DISCHARGE LINES, NO DESCENDING RUNS BEYOND HORIZONTAL OR ASCENDING RUNS; ON SUCTION LINES, NO DESCENDING RUNS BEYOND ASCENDING RUNS.
4. ALL UNDERGROUND PRESSURE AND SUCTION PIPING SHALL SLOPE A MINIMUM OF 1%.
5. THE TEE FEEDING FROM THE COMMON LINE BETWEEN THE SUCTION OUTLETS, TO THE PUMP(S) SHALL BE LOCATED APPROXIMATELY MIDWAY BETWEEN THE OUTLETS (ANSI/APSP-7).
6. ALL POOL RELATED PIPING, SHALL BE HYDRAULICALLY PRESSURE TESTED (WITH WATER, NOT AIR) TO A PRESSURE OF NOT LESS THAN 80 PSI FOR A PERIOD OF NO LESS THAN ONE (1) HOUR. CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF A SUSTAINED 30 PSI PRESSURE ON ALL POOL RELATED PIPING THROUGHOUT THE COURSE OF CONSTRUCTION.
7. ALL DRAIN FITTINGS TO CARRY 100% OF RECIRCULATION RATE NOT TO EXCEED MAX RATED FLOW RATE FOR SELECTED DRAIN FITTING WHEN ONE OUTLET FITTING IS COVERED.
8. MAIN DRAIN PIPING SHALL CARRY 100% OF RECIRCULATION RATE AT A VELOCITY NOT TO EXCEED 6' PER SECOND.
9. ALL PIPING DESIGNED FOR 6' PER SECOND MAXIMUM SUCTION, 8' PER SECOND MAXIMUM PRESSURE, AND 3' PER SECOND MAXIMUM GRAVITY.
10. VERIFY PIPE SIZES WITH THE EQUIPMENT ROOM PLAN AND SCHEMATIC. IF THERE ARE ANY DISCREPANCIES, REPORT THEM TO THE ARCHITECT/ENGINEER IMMEDIATELY.
11. POOL CONTRACTOR SHALL COORDINATE ALL WORK WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL AND STRUCTURAL DRAWINGS.
12. OVERALL PIPING IS SHOWN IN DIAGRAMMATIC FORM TO INDICATE WORK TO BE DONE RATHER THAN TO SHOW EXACT ROUTING & LOCATION. MAKE USE OF ALL DATA IN CONTRACT DOCUMENTS, VERIFY AGAINST DEVELOPED FIELD CONDITIONS, & INSTALL WORK IN AN ORDERLY ARRANGEMENT IN A MANNER TO OVERCOME STRUCTURAL, MECHANICAL & ELECTRICAL INTERFERENCE.
13. EXISTING REINFORCEMENT TO BE LOCATED PRIOR TO CORING. EXISTING REINFORCEMENT TO REMAIN INTACT AND NOT BE CUT BY ANY PIPING CORES.

TEACHING POOL DESIGN DATA	
SIZE (LENGTH BY WIDTH):	34 FT 10 IN - 34 FT 8 IN
DEPTH PROFILE:	3 FT 0 IN - 4 FT 3 IN
SURFACE AREA:	1,213 SF
PERIMETER:	139 FT
VOLUME:	31,365 GAL
MAX BATHER LOAD:	60 BATHERS

TEACHING POOL SYSTEM DESIGN DATA	
TURNOVER RATE:	4.55 HRS
RECIRCULATION RATE:	115 GPM
FILTER AREA:	7.06 SF
FILTRATION RATE:	16.29 GPM/SF
BACKWASH FLOW RATE:	127 GPM

TEACHING POOL SUCTION OUTLET DATA	
RECIRCULATION PUMP MAX FLOW RATE @60FT:	255 GPM
MAIN DRAIN MAX APPROVED FLOW RATE:	408 GPM
SUCTION PIPE VELOCITY @ DESIGN FLOW RATE:	5.22 FPS

TEACHING POOL RECIRCULATION EQUIPMENT SCHEDULE

CALL OUT	EQUIPMENT	MODEL/DESCRIPTION	DETAIL
MD1	RECIRCULATION MAIN DRAIN	DALDERADO 24 X 24 X 12 - 03 SUMP AND GRATE, MAXIMUM FLOW RATE 408 GPM WITH MYRTHA COLLAR	2/SP3.5
MD2	SLIDE MAIN DRAIN	DALDERADO 24 X 24 X 30 - 10 SUMP AND GRATE, MAXIMUM FLOW RATE 1734 GPM WITH MYRTHA COLLAR	1/SP3.5
SK	SKIMMER	HAYWARD WIDEMOUTH SP1085 VINYL SKIMMER WITH ALL REQUIRED GASKETS AND AND MOUNT SPACE BLOCK, NO EQUALIZER COVERS	6/SP3.5
FR	FLOOR RETURN INLET	1.5" FLOOR INLET BY MYRTHA	5/SP3.5
WR	WALL RETURN INLET	2" WALL RETURN INLET BY MYRTHA	4/SP3.5
AF	AUTOFILL	MP INDUSTRIES, INC. AUTO-LEV AUTOMATIC WATER LEVELER, 3/4" WATER SUPPLY, 1-1/2" EQUALIZER LINE, W/ DECK WELL INSTALLATION	7/SP3.5
EQ	AUTOFILL EQUALIZER COVER	AQUASTAR 6HPHAxxx 6" ROUND OUTLET COVER	8/SP3.5

ALL EQUIPMENT NOTED ARE BASIS OF DESIGN & DESIGNATE MINIMUM PERFORMANCE STANDARDS. EQUIVALENT PRODUCTS MAY BE USED PROVIDED THEY ARE SUBMITTED TO ENGINEER OF RECORD FOR APPROVAL.

PIPING PLAN LEGEND	
SYMBOL/LINE	DESCRIPTION
SS	SURFACE SUCTION
RR	RECIRCULATION RETURN
MD	MAIN DRAIN SUCTION
AF	AUTOFILL
SL	SLIDE RETURN

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SS ☑ FLS ☑ ACS ☑
DATE: 9/30/2025

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LICENSED ARCHITECT
JAMES P. McCLELLAND
C-21797
07/31/2027
STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquility, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

TEACHING POOL PIPING PLAN

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

DATE: 08/06/2025
TECHNICIAN: RD
PROJECT MANAGER: BR
JOB NUMBER: 791

SHEET NUMBER
SP3.2-1

TEACHING POOL PIPING PLAN
3/8" = 1'-0"
1

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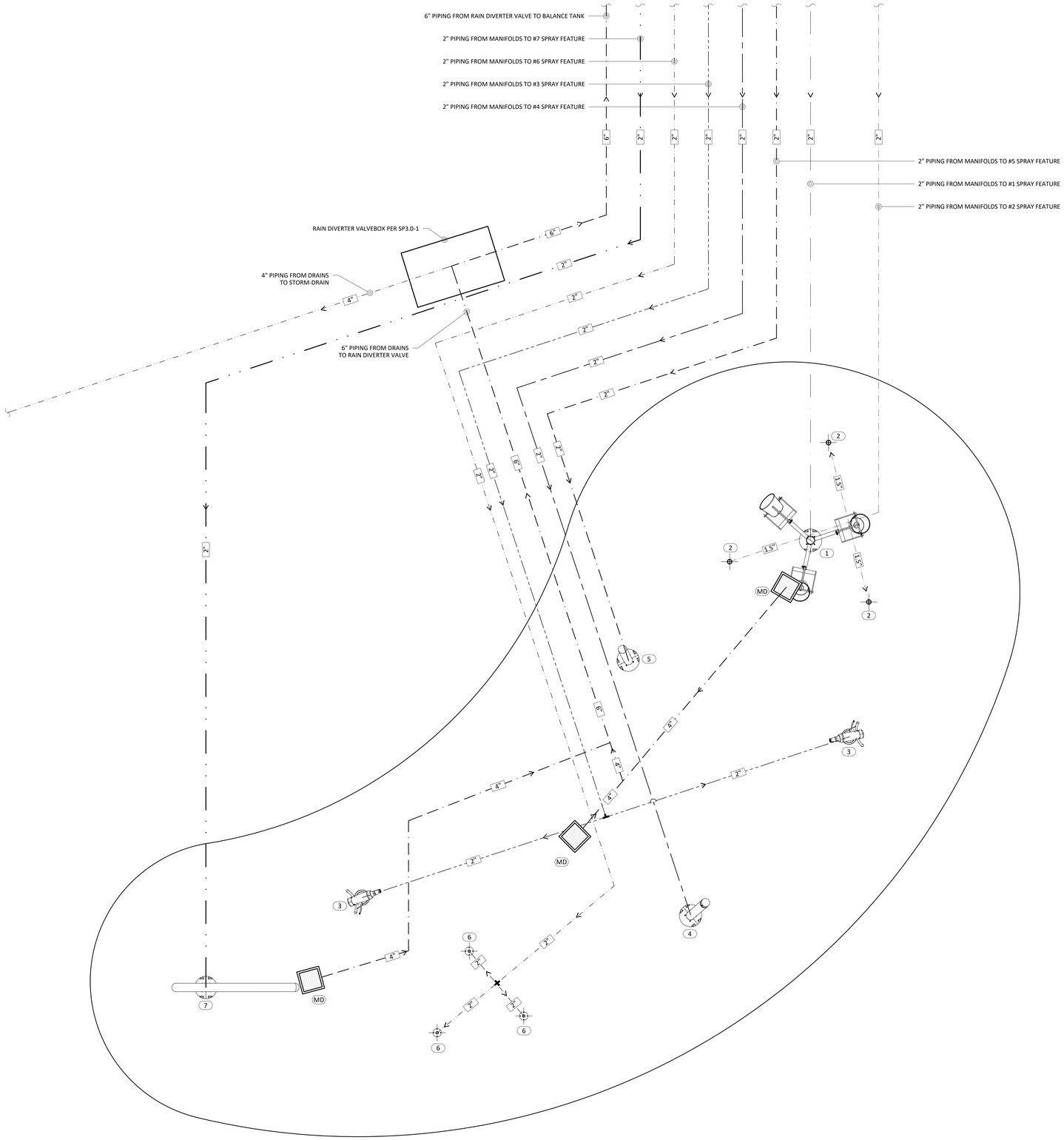

SPLASH PAD POOL PIPING NOTES:

1. SCHEDULE 80 PVC.
2. POOL CONTRACTOR SHALL INSTALL PIPING IN AN EFFICIENT MANNER TO REDUCE PRESSURE LOSSES.
3. PIPING SHALL BE INSTALLED WITHOUT AIR ENTRAPPING HIGH POINTS OR REVERSE SLOPES, I.E. ON DISCHARGE LINES, NO DESCENDING RUNS BEYOND HORIZONTAL OR ASCENDING RUNS; ON SUCTION LINES, NO DESCENDING RUNS BEYOND ASCENDING RUNS.
4. ALL UNDERGROUND PRESSURE AND SUCTION PIPING SHALL SLOPE A MINIMUM OF 1%.
5. THE TEE FEEDING FROM THE COMMON LINE BETWEEN THE SUCTION OUTLETS, TO THE PUMP(S) SHALL BE LOCATED APPROXIMATELY MIDWAY BETWEEN THE OUTLETS (ANSI/APSP-7).
6. ALL POOL RELATED PIPING, SHALL BE HYDRAULICALLY PRESSURE TESTED (WITH WATER, NOT AIR) TO A PRESSURE OF NOT LESS THAN 80 PSI FOR A PERIOD OF NO LESS THAN ONE (1) HOUR. CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF A SUSTAINED 30 PSI PRESSURE ON ALL POOL RELATED PIPING THROUGHOUT THE COURSE OF CONSTRUCTION.
7. ALL DRAIN FITTINGS TO CARRY 100% OF RECIRCULATION RATE NOT TO EXCEED MAX RATED FLOW RATE FOR SELECTED DRAIN FITTING WHEN ONE OUTLET FITTING IS COVERED.
8. MAIN DRAIN PIPING SHALL CARRY 100% OF RECIRCULATION RATE AT A VELOCITY NOT TO EXCEED 6' PER SECOND.
9. ALL PIPING DESIGNED FOR 6' PER SECOND MAXIMUM SUCTION, 8' PER SECOND MAXIMUM PRESSURE, AND 3' PER SECOND MAXIMUM GRAVITY.
10. VERIFY PIPE SIZES WITH THE EQUIPMENT ROOM PLAN AND SCHEMATIC. IF THERE ARE ANY DISCREPANCIES, REPORT THEM TO THE ARCHITECT/ENGINEER IMMEDIATELY.
11. POOL CONTRACTOR SHALL COORDINATE ALL WORK WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL AND STRUCTURAL DRAWINGS.
12. OVERALL PIPING IS SHOWN IN DIAGRAMMATIC FORM TO INDICATE WORK TO BE DONE RATHER THAN TO SHOW EXACT ROUTING & LOCATION. MAKE USE OF ALL DATA IN CONTRACT DOCUMENTS, VERIFY AGAINST DEVELOPED FIELD CONDITIONS, & INSTALL WORK IN AN ORDERLY ARRANGEMENT IN A MANNER TO OVERCOME STRUCTURAL, MECHANICAL & ELECTRICAL INTERFERENCE.

SPLASH PAD FEATURE SCHEDULE

CALL OUT	SPRAYTOY	QUANTITY	GPM
1	TIPPY BUCKET - 3-WAY_TRE-TB3	1	30 GPM
2	DIRECTIONAL JET-POP_FM-DJ	3	5 GPM (EACH)
3	PEDESTAL BLASTER_GND-PBT	2	20 GPM (EACH)
4	WATER DOME_BOL-WD	1	40 GPM
5	RADIAL JET BOLLARD_BOL-RJ	1	3O GPM
6	GUSHER DECK JET_FM-GJ	3	20 GPM (EACH)
7	BLADE SPRAY DOWN JETS_GND-BSD	1	20 GPM
	TOTAL	12	235 GPM

SPLASHPAD RECIRCULATION EQUIPMENT SCHEDULE

CALL OUT	EQUIPMENT	MODEL/DESCRIPTION	DETAIL
MD	MAIN DRAIN	RAINDECK 11"X11" BOX DRAIN - 4" PVC CONNECTION RD437	1/SP3.6

SPLASHPAD DESIGN DATA	
SPLASHPAD FEATURE FLOWRATE:	235 GPM
SURGE TANK VOLUME:	4,443 GAL
SURGE TANK TURNOVER RATE:	0.50 HRS
SURGE TANK RECIRCULATION RATE:	150 GPM
FILTER AREA:	4.91 SF
FILTRATION RATE:	15.27 GPM/SF
BACKWASH FLOW RATE:	100 GPM

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07/31/2027
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AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

SPLASH PAD PIPING PLAN

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: RD
PROJECT MANAGER: BR
JOB NUMBER: 791

SHEET NUMBER
SP3.3-1

SPLASH PAD PIPING PLAN
1/2" = 1'-0"
1

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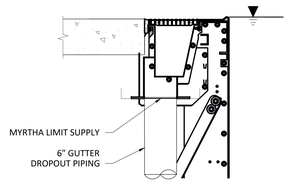
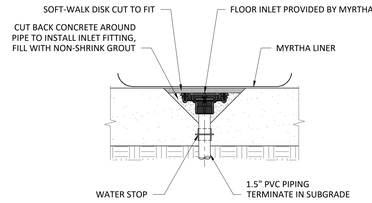
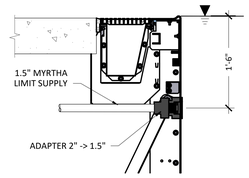


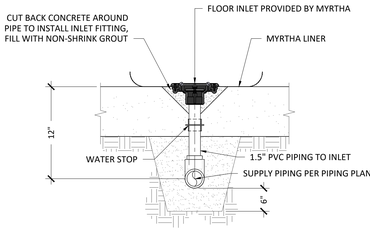
COMPETITION POOL GUTTER DROPOUT
1" = 1'-0"
4



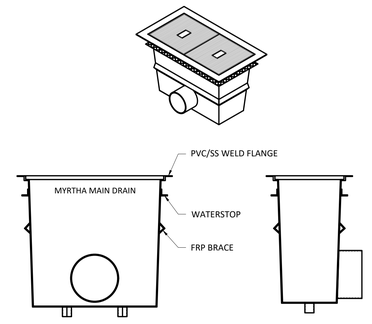
DRAIN UNDER MEMBRANE
3/4" = 1'-0"
6



COMPETITION POOL WALL RETURN INLET
1" = 1'-0"
3



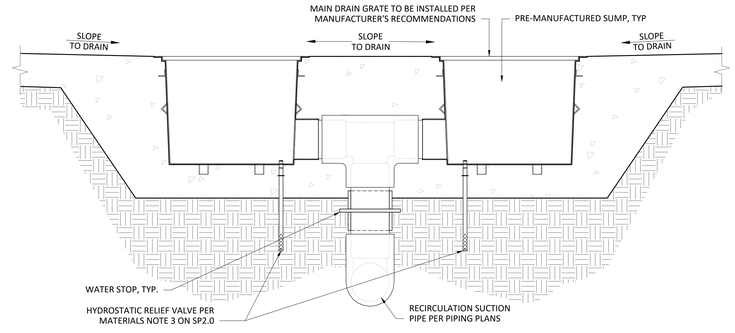
FLOOR RETURN INLET
N.T.S.
5



NOTE:
REFER TO SP3.1 FOR MAIN DRAIN MODEL SIZING.

COMPETITION POOL MAIN DRAIN FLANGE
3/4" = 1'-0"
2

SUMP & GRATE NOTES:
1. CONFIRM THAT MAIN DRAIN COVER APPROVED FLOW RATE IS EQUAL TO OR GREATER THAN MAXIMUM PUMP FLOW RATE.
2. CONFIRM SIDE ENTRY OR BOTTOM ENTRY FOR SUCTION OUTLET PIPING PRIOR TO INSTALLATION / CONSTRUCTION OF OUTLET PIPING, TRENCHES, POOL BOTTOM, ETC.
3. CONTRACTOR TO VERIFY VGB COMPLIANCE ON CDPH AB1020 COMPLIANCE FORM PER HEALTH & SAFETY CODE SECTION 116064.2
4. SUCTION OUTLET FITTING ASSEMBLIES MUST BE TESTED, CERTIFIED AND LABELED PER APSP-16 2017.



COMPETITION POOL MAIN DRAIN
3/4" = 1'-0"
1

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JAMES P. McCLELLAND
C-21797
07/31/2026
OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

COMPETITION POOL PIPING DETAILS

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: RD
PROJECT MANAGER: BR
JOB NUMBER: 791

SHEET NUMBER
SP3.4-1

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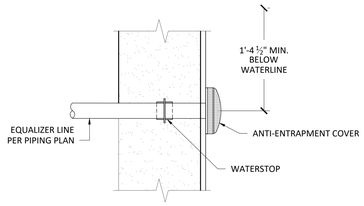
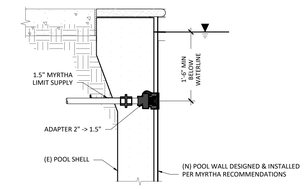


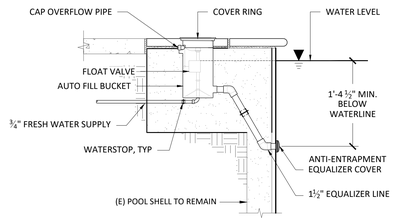
NOTE:
FINAL LOCATION OF AUTOFILL EQUALIZER LINE TO BE COORDINATED ONSITE WITH MYRTHA PANEL.

TEACHING POOL AUTOFILL EQUALIZER (8)
3/4" = 1'-0"



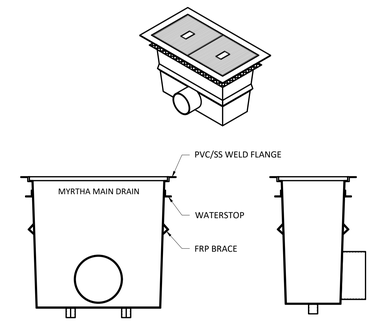
NOTE: BOND & GROUND PER CEC

WALL INLET (4)
3/4" = 1'-0"



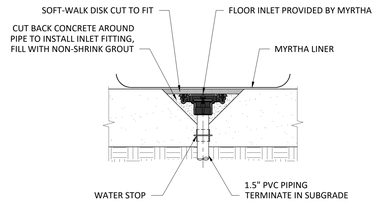
NOTE:
FINAL LOCATION OF AUTOFILL EQUALIZER LINE TO BE COORDINATED ONSITE WITH MYRTHA PANEL.

TEACHING POOL AUTOFILL DECK WELL (7)
3/4" = 1'-0"

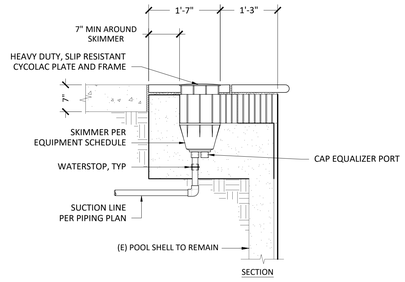


NOTE:
REFER TO SP3.2 FOR MAIN DRAIN MODEL SIZING.

TEACHING POOL MAIN DRAIN FLANGE (3)
3/4" = 1'-0"

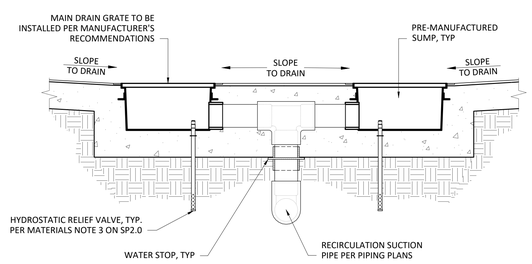


DRAIN UNDER MEMBRANE (10)
3/4" = 1'-0"

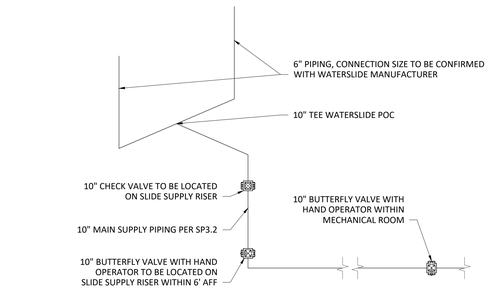


TEACHING POOL SKIMMER (6)
3/4" = 1'-0"

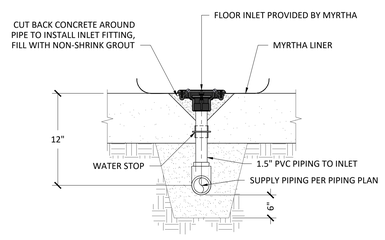
SUMP & GRATE NOTES:
1. CONFIRM THAT MAIN DRAIN COVER APPROVED FLOW RATE IS EQUAL TO OR GREATER THAN MAXIMUM PUMP FLOW RATE.
2. CONFIRM SIDE ENTRY OR BOTTOM ENTRY FOR SUCTION OUTLET PIPING PRIOR TO INSTALLATION / CONSTRUCTION OF OUTLET PIPING, TRENCHES, POOL BOTTOM, ETC.
3. CONTRACTOR TO VERIFY VGB COMPLIANCE ON CDPH AB1020 COMPLIANCE FORM PER HEALTH & SAFETY CODE SECTION 116064.2
4. SUCTION OUTLET FITTING ASSEMBLIES MUST BE TESTED, CERTIFIED AND LABELED PER APSP-16 2017.



TEACHING POOL SLIDE RECIRCULATION MAIN DRAIN (2)
3/4" = 1'-0"



WATERSLIDE CONNECTION (9)
NOT TO SCALE



CAP PIPE & HYDROSTATICALLY TEST PER SPECIFICATIONS BEFORE CONCEALING

FLOOR RETURN INLET (5)
N.T.S.

SUMP & GRATE NOTES:
1. CONFIRM THAT MAIN DRAIN COVER APPROVED FLOW RATE IS EQUAL TO OR GREATER THAN MAXIMUM PUMP FLOW RATE.
2. CONFIRM SIDE ENTRY OR BOTTOM ENTRY FOR SUCTION OUTLET PIPING PRIOR TO INSTALLATION / CONSTRUCTION OF OUTLET PIPING, TRENCHES, POOL BOTTOM, ETC.
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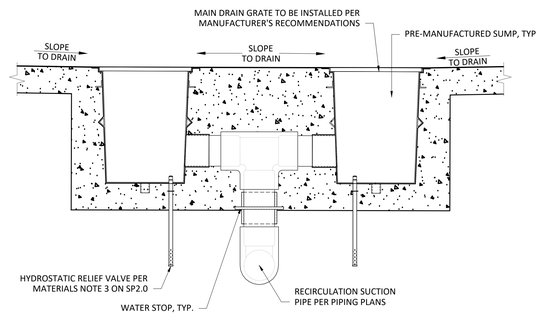

TEACHING POOL RECIRCULATION MAIN DRAIN (1)
3/4" = 1'-0"

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CLIENT

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SHEET TITLE

TEACHING POOL PIPING DETAILS

PHASE DESCRIPTION
100% CD - DSA APPROVAL
INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: RD
PROJECT MANAGER: BR
JOB NUMBER: 791

SHEET NUMBER
SP3.5-1

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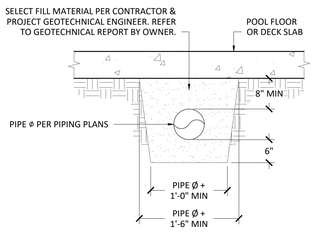
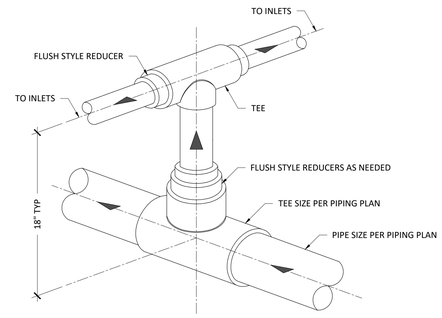
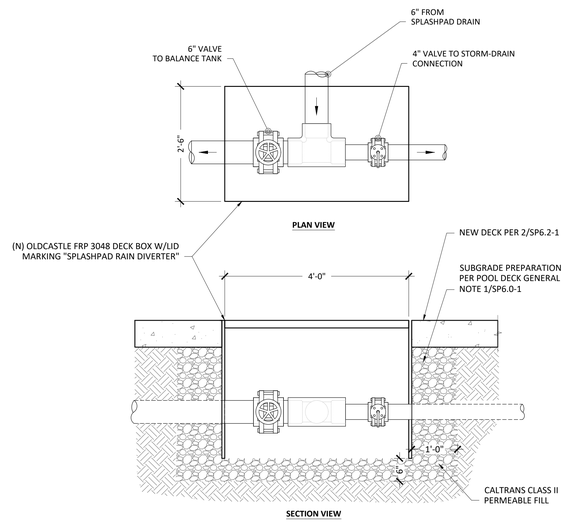


TYP. BELOW GRADE PIPING
3/4" = 1'-0" — 4



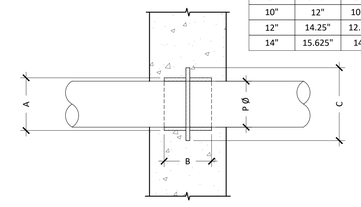
TYP. PIPE CONNECTIONS
3/4" = 1'-0" — 3



NOTE:
CONNECTION TO STORM-DRAIN TO BE CLOSED WHEN SPLASHPAD IS OPERATING. DURING THE OFF SEASON, BALANCE TANK VALVE SHALL BE CLOSED AND STORM-DRAIN VALVE SHALL BE OPENED

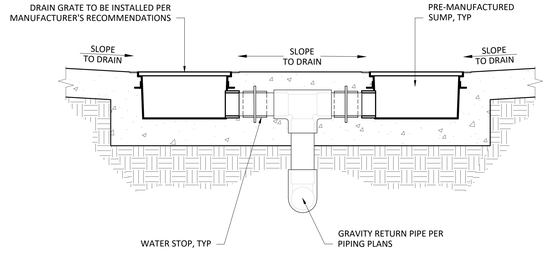
IN-DECK RAIN-DIVERTER VALVE BOX
3/4" = 1'-0" — 5

SCHEDULE 80 PVC			
PIPE SIZE PØ	A	B	C
1.5"	2.375"	2.875"	5"
2"	2.875"	3.125"	6"
2.5"	3.5"	3.75"	7"
3"	4.125"	4.75"	7.5"
4"	5.25"	4.25"	9"
6"	7.50"	6.375"	11"
8"	9.75"	8.25"	13.5"
10"	12"	10.25"	16"
12"	14.25"	12.375"	19"
14"	15.625"	14.5"	22"



TYP. WATER STOP
3/4" = 1'-0" — 2

SUMP & GRATE NOTES:
1. CONFIRM SIDE ENTRY OR BOTTOM ENTRY FOR OUTLET PIPING PRIOR TO INSTALLATION / CONSTRUCTION OF OUTLET PIPING, TRENCHES, ETC.



NOTE:
FULL DRAIN PIPING LAYOUT PER PER SP3.3

SPLASHPAD DRAINS
3/4" = 1'-0" — 1

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DATE: 9/30/2025

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PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
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CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

SPLASHPAD/TYP. PIPING DETAILS

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: RD
PROJECT MANAGER: BR
JOB NUMBER: 791

SHEET NUMBER
SP3.6-1

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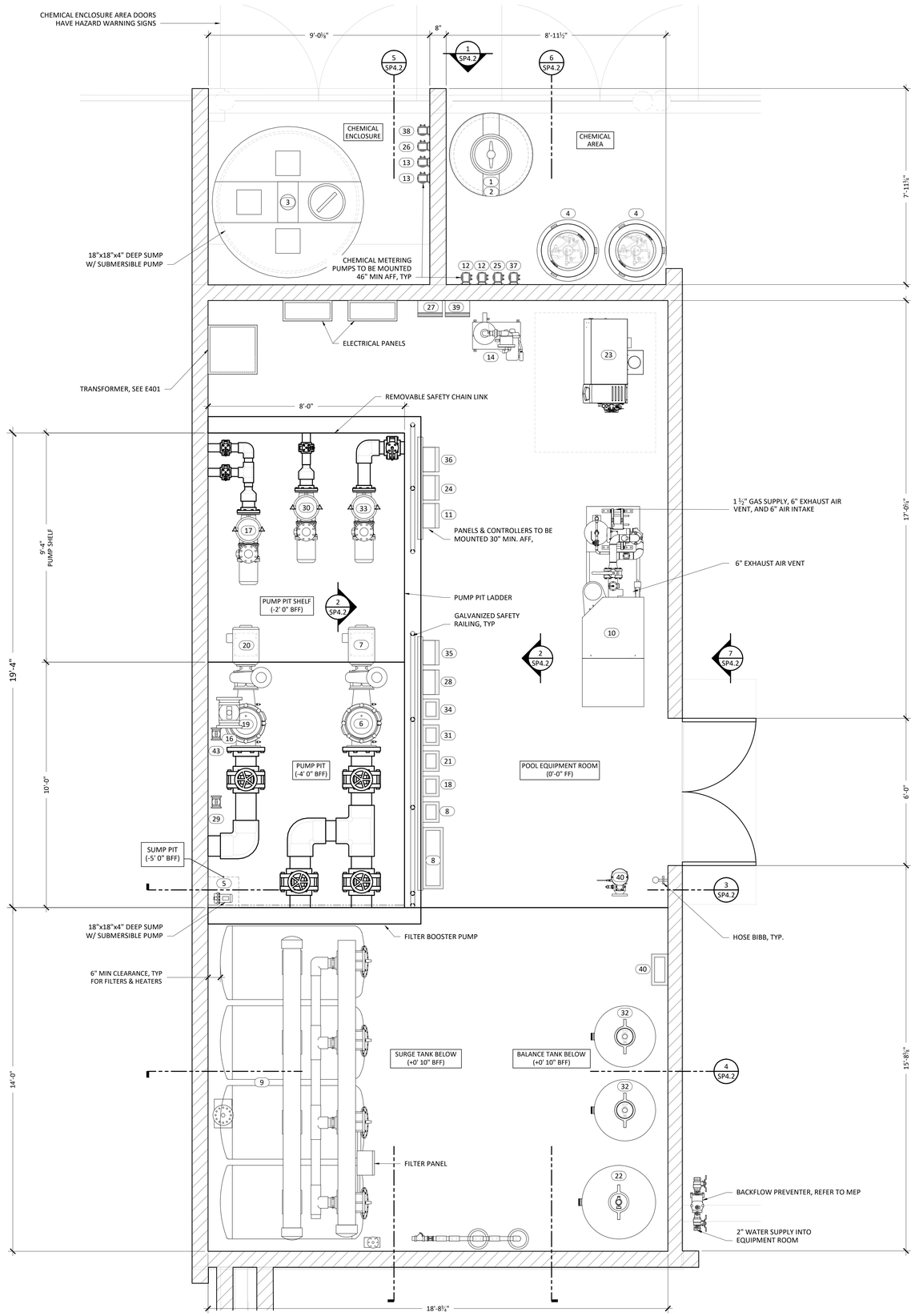

EQUIPMENT ROOM NOTES:

1. SEE PIPING PLANS TO VERIFY PIPE SIZES AND FOR CONTINUATION OF PIPING. REPORT DISCREPANCIES IMMEDIATELY TO THE ARCHITECT / ENGINEER.
2. POOL CONTRACTOR SHALL IDENTIFY ALL PIPING AND VALVES BY COLOR CODING OR LABELS AND DIRECTION OF FLOW ARROWS IN ACCORDANCE WITH LOCAL HEALTH CODE.
3. PIPING AT HEATER TO BE CPVC UNLESS NOTED OTHERWISE.
4. TAPERED REDUCER FITTINGS SHALL BE USED WHERE PIPE SIZES CHANGE.
5. DOWNSIZING AND UPSIZING IS TO BE DONE AT THE THROATS OF THE PUMP PORTS.
6. ALL VALVES SHALL HAVE A MINIMUM PRESSURE RATING OF 125 PSI.
7. ALL TRADES SHALL KEEP SPACE ABOVE THE FILTRATION AND CHEMICAL EQUIPMENT CLEAR FOR SERVICING.
8. HAIR AND LINT STRAINER OPENINGS SHALL BE NO MORE THAN 1/8". THE HAIR AND UNIT STRAINER MUST PROVIDE A FREE FLOW CAPACITY OF AT LEAST FOUR TIMES THE AREA OF THE PUMP SUCTION LINE.
9. FILTRATION AND CHEMICAL EQUIPMENT SHALL BE NATIONAL SANITATION FOUNDATION (NSF) APPROVED.
10. FILTER SHALL BE PROVIDED WITH THE FOLLOWING APPROPRIATELY LOCATED ACCESSORIES: INFLUENT AND EFFLUENT PRESSURE GAUGES, BACKWASH SIGHT GLASS ON WASTED DISCHARGE LINE, FILTER BACKWASH VALVE.
11. FLOWMETER SHALL BE PROVIDED IN THE INLET RETURN LINE AFTER FILTER AND BEFORE CHEMICAL INJECTION. INSTALL ON A STRAIGHT LENGTH OF PIPE AT A DISTANCE OF AT LEAST 10 PIPE DIAMETERS DOWNSTREAM AND 4 PIPE DIAMETERS UPSTREAM FROM ANY VALVE, ELBOW OR OTHER SOURCE OF TURBULENCE OR PER MANUFACTURER'S SPECIFICATIONS. PROVIDE CHECK VALVE IN RETURN LINE UPSTREAM OF CHEMICAL INJECTION TO PROTECT HEATER, FILTER, PUMP AND OTHER EQUIPMENT.
12. PROVIDE A COMBINATION VACUUM/PRESSURE GAUGE (COMPOUND GAUGE) ON THE SUCTION SIDE OF THE CIRCULATION PUMP AND A CHECK VALVE ON THE DISCHARGE SIDE OF THE PUMP.
13. INSTALL AIR COMBUSTION INTAKE AND VENT PIPING PER HEATER MANUFACTURER'S RECOMMENDATIONS.
14. ALL PIPING TO BE SUPPORTED AS REQUIRED WITH EITHER HANGERS (ALONG CEILINGS), ANCHORS (ALONG WALLS), OR SUPPORTS (ALONG FLOOR) PER CONTRACTOR. MIN 6'-8" CLEARANCE TO UNDERSIDE OF ANY OVERHEAD PLUMBING LINES.
15. ANY WALL-MOUNTED EQUIPMENT AND CONTROL PANELS SHALL BE MOUNTED A MINIMUM 46" ABOVE FINISHED FLOOR.
16. HOUSEKEEPING PADS: ALL CIRCULATION PUMPS, HEATERS, AND FILTERS TO BE ANCHORED PER MANUFACTURER'S RECOMMENDATIONS ON A HOUSEKEEPING PAD THAT IS 4" MINIMUM ABOVE FINISHED FLOOR.
17. ALL MECHANICAL ROOM FLOORS SHALL SLOPE A MINIMUM OF ¼" TO ½" TO FLOOR DRAINS.
18. MECHANICAL ROOM FLOOR DRAINS BY OTHERS.
19. HOSE BIBS TO BE INSTALLED FOR HOUSE CLEANING PURPOSES. HOSE BIBS TO BE PROVIDED WITH ATMOSPHERIC VACUUM BREAKERS.
20. BACKWASH CATCH BASIN SURFACES SHALL BE WATERPROOFED.
21. THE FOLLOWING INFORMATION SHALL BE LAMINATED AND POSTED IN THE POOL MECHANICAL ROOM: BACKWASH PROCEDURES, POOL FILLING AND DRAINING, VALVE REFERENCE CHART, EQUIPMENT ROOM PLAN, POOL PIPING SCHEMATICS, AND POOL SYSTEMS SCHEMATICS.
22. PIPING NOT SHOWN TO SCALE, SHOWN TO INDICATE WORK TO BE DONE AND SUGGESTED ROUTING RATHER THAN EXACT ROUTING & LOCATION. MAKE USE OF ALL DATA IN CONTRACT DOCUMENTS, VERIFY AGAINST DEVELOPED FIELD CONDITIONS, & INSTALL WORK IN AN ORDERLY ARRANGEMENT IN A MANNER TO OVERCOME STRUCTURAL, MECHANICAL & ELECTRICAL INTERFERENCE.
23. PIPING VALVES NOT SHOWN, SEE CIRCULATION SCHEMATICS FOR VALVES REQUIRED, LOCATIONS, AND SPECIFICATIONS.
24. INSTALL INTERLOCK BETWEEN CIRCULATION PUMP(S) AND HEATER(S); FLOW SWITCHES; AND BYPASS LOOPS AS REQUIRED BY HEATER MANUFACTURER.
25. PUMP SHALL INTERLOCK WITH CHEMICAL CONTROLLER. DISRUPTION OF POWER TO CIRCULATION PUMP SHALL SHUT OFF CHEMICAL FEED SYSTEMS VIA CHEMICAL CONTROLLER.
26. CONTRACTOR TO VERIFY ALL PIPE PENETRATION ELEVATIONS PRIOR TO CONCRETE PLACEMENT.

EQUIPMENT ROOM SCHEDULE

COMMON/SHARED EQUIPMENT

CALL OUT	EQUIPMENT	MODEL/DESCRIPTION	SIZE	WEIGHT	ANCHOR DETAIL
1	ACID STORAGE	CHEMTAINER TC5256DC, DOUBLE WALLED BULK STORAGE TANK, 350 GALLON CAPACITY, 52" DIAMETER, 56" HEIGHT W/PROMINENT ACID FUME SCRUBBER	52" D 57" H	1750	6/SP4.8
2	ACID VAPOR PROTECTION	EKO3 ACID VAPOR RECOVERY SYSTEM INCLUDING CUSTOM 55 GALLON SEALED ACID NEUTRALIZATION TANK	26" D 36" H	250	6/SP4.8
3	CHLORINE STORAGE	CHEMTAINER TC6481DC, DOUBLE WALLED BULK STORAGE TANK, 1000 GALLON CAPACITY, 64" DIAMETER, 81" HEIGHT	74" D 85" H	5000	6/SP4.8
4	CO2 STORAGE	(2) TAYLOR WHARTON NOVO-750, CO2 CRYOGENIC STORAGE TANK, 750 LB CAPACITY, 26" DIAMETER, EPOXY COATED, W/ REMOTE FILL STATION	26" D x 71" H	1050	8/SP4.8
5	SUMP PUMP	GOULDS SUBMERSIBLE SUMP PUMP LSP03av, 1/3 HP, 1 PHASE, 60 HZ, 3450 RPM, W/ PIGGYBACK VERTICAL FLOAT SWITCH, 1-1/2" DISCHARGE	18" x 12" x 14"	40	NA

COMPETITION POOL EQUIPMENT

CALL OUT	EQUIPMENT	MODEL/DESCRIPTION	SIZE	WEIGHT	ANCHOR DETAIL
6	STRAINER	AQUIFY FIBERGLASS 10" TO 6" REDUCING HAIR AND LINT STRAINER WITH (2) STAINLESS STEEL BASKETS	22"x32"	85	NA
7	CIRCULATION PUMP	PACO 50957 LC, HORIZONTAL CLOSE COUPLED END SUCTION, 20 HP, 3 PHASE, TEFC, 1760 RPM, 1000 GPM @ 60' TDH, 6" SUCTION, 5" DISCHARGE, IMPELLER RATED 8.65" DIAMETER, 83% EFFICIENCY, 60 HZ, 460V THREE PHASE. NEMA PREMIUM EFFICIENTY MOTOR	10"x12"x12"	650	3/SP4.8
8	VARIABLE FREQUENCY DRIVE	SMART PUMP CONTROL SYSTEM (SPCS) SPCS020-04, 20 HP, 460V, WITH 36"X30"X10" CABINET	30"x30"x10"	250	2/SP4.2
9	FILTRATION	(4) TANK EPD S408, 29.50" DIAMETER X 42.25", 16.5 SQ FT FILTER AREA EACH, 66 SQ FT TOTAL, 4" BACKWASH VALVE, 297 GPM BACKWASH FLOW RATE PER TANK, W/ PRESSURE AMPLIFICATION SYSTEM	29.5" D x 42.25" H	5030	4/SP4.8
10	HEATING	LOCHINVAR AQUAS APO2000N, 1,999,000 BTUH INPUT, 3" POOL CONNECTION, 1.5" GAS CONNECTION, 8" AIR INTAKE, 8" FLUE VENT, 0.5" CW W/TOTALIZING METER 96.2% EFFICIENCY	30" x 98" x 79"	3500	5/SP4.8
11	CHEMICAL CONTROLLER	BECSYS BECS7, AUTOMATIC BACKWASH CONTROL	18" x 15" x 8"	25	NA
12	ACID METERING PUMP SYSTEM	STENNER 45M5, SINGLE HEAD, ADJUSTABLE OUTPUT, 25 PSI, MAXIMUM 50 GALLONS CHLORINE PER DAY	5" x 6" x 10"	10	NA
13	CHLORINE METERING PUMP SYSTEM	STENNER 85M5, SINGLE HEAD, ADJUSTABLE OUTPUT, 25 PSI, MAXIMUM 85 GALLONS ACID PER DAY	5" x 6" x 10"	10	NA
14	CO2 FEEDER	EKO3 PH-MTS CO2 FEED SYSTEM	24" x 24" x 48"	400	9/SP4.8
15	WATER LEVEL CONTROL	BECS SURGE TANK LEVEL SENSOR (SLS) , LINKED TO THE BECSYS CHEMICAL CONTROLLER	NA	NA	NA
16	FLOW METER	GF SIGNET 2536 ROTOR-X PADDLEWHEEL FLOW SENSOR, FLOW RANGE 0.3-20 FT/S	4" x 4" x 4"	5	NA

TEACHING POOL EQUIPMENT

CALL OUT	EQUIPMENT	MODEL/DESCRIPTION	SIZE	WEIGHT	ANCHOR DETAIL
17	CIRCULATION PUMP	PENTAIR BRONZE C SERIES CHK50, 5 HP, 3 PHASE, TEFC 3450 RPM, 115 GPM @ 78' TDH, 6" SUCTION, 4" DISCHARGE,220/440V. NEMA PREMIUM EFFICIENTY MOTOR	8"x24"x18"	400	7/SP4.8
18	VARIABLE FREQUENCY DRIVE	PENTAIR ACUDRIVE XS, 5 HP, 200-230/460V, WITH NEMA 4X CABINET	10"x10"x17"	75	2/SP4.2
19	WATERSLIDE PUMP STRAINER	AQUIFY FIBERGLASS 10" TO 6" REDUCING HAIR AND LINT STRAINER WITH (2) STAINLESS STEEL BASKETS	22"x32"	85	NA
20	WATERSLIDE PUMP	PACO 50957 LC, HORIZONTAL CLOSE COUPLED END SUCTION, 15 HP, 3 PHASE, TEFC, 1760 RPM, 1000 GPM @ 40' TDH, 6" SUCTION, 5" DISCHARGE, IMPELLER RATED 8.65" DIAMETER, 83% EFFICIENCY, 60 HZ, 460V THREE PHASE. NEMA PREMIUM EFFICIENTY MOTOR	10"x12"x12"	650	3/SP4.8
21	VARIABLE FREQUENCY DRIVE	PENTAIR ACUDRIVE XS, 15 HP, 200-230/460V, WITH NEMA 4X CABINET	10"x10"x17"	75	2/SP4.2
22	FILTRATION	PENTAIR TR140C-3, 37" DIAMETER X 46", 7.06 SQ FT FILTER AREA, 3" BACKWASH VALVE, 105 GPM BACKWASH FLOW RATE PER TANK	36" D x 48" H	1000	5/SP4.8
23	HEATING	LOCHINVAR ENERGYRITE ERN402, 399,000 BTUH INPUT, 2" POOL CONNECTION, 0.75" GAS CONNECTION, 5" AIR INTAKE, 6" FLUE VENT W/DIRECTAIRE SYSTEM	26"x41"x22"	300	NA
24	CHEMICAL CONTROLLER	BECSYS BECS5	12" x 15" x 8"	25	NA
25	ACID METERING PUMP SYSTEM	STENNER 45M5, SINGLE HEAD, ADJUSTABLE OUTPUT, 25 PSI, MAXIMUM 50 GALLONS ACID PER DAY	5" x 6" x 10"	10	NA
26	CHLORINE METERING PUMP SYSTEM	STENNER 45M5, SINGLE HEAD, ADJUSTABLE OUTPUT, 25 PSI, MAXIMUM 50 GALLONS ACID PER DAY	5" x 6" x 10"	10	NA
27	CO2 FEEDER	EKO3 CO2 CONTROLLER 20-220 SCFH	6"x6"x4"	10	NA
28	WATERSLIDE CONTROLLER	PENTAIR LX820 CONTROLLER W/2 EMERGENCY STOP PUSHBUTTONS AND ALARMS	10"x10"x5"	15	2/SP4.2
29	FLOW METER	GF SIGNET 2536 ROTOR-X PADDLEWHEEL FLOW SENSOR, FLOW RANGE 0.3-20 FT/S	4" x 4" x 4"	5	NA

SPLASHPAD EQUIPMENT

CALL OUT	EQUIPMENT	MODEL/DESCRIPTION	SIZE	WEIGHT	ANCHOR DETAIL
30	BALANCE TANK CIRCULATION PUMP	PENTAIR BRONZE C SERIES CHK50, 5 HP, 3 PHASE, TEFC 3450 RPM, 150 GPM @ 68' TDH, 6" SUCTION, 4" DISCHARGE,220/440V. NEMA PREMIUM EFFICIENTY MOTOR	8"x24"x18"	400	7/SP4.8
31	VARIABLE FREQUENCY DRIVE	PENTAIR ACUDRIVE XS, 5 HP, 200-230/460V, WITH NEMA 4X CABINET	10"x10"x17"	75	2/SP4.2
32	FILTRATION	(2) PENTAIR TR100C-3, 31" DIAMETER X 40", 4.91 SQ FT FILTER AREA, 3" BACKWASH VALVE, 73 GPM BACKWASH FLOW RATE PER TANK	30" D x 42" H	700	5/SP4.8
33	FEATURE PUMP	PENTAIR BRONZE C SERIES CHK50, 5 HP, 3 PHASE, TEFC 3450 RPM, 235 GPM @ 65' TDH, 6" SUCTION, 4" DISCHARGE,220/440V. NEMA PREMIUM EFFICIENTY MOTOR	8"x24"x18"	400	7/SP4.8
34	VARIABLE FREQUENCY DRIVE	PENTAIR ACUDRIVE XS, 5 HP, 200-230/460V, WITH NEMA 4X CABINET	10"x10"x17"	75	2/SP4.2
35	SPLASHPAD CONTROLLER	PENTAIR LX802 CONTROLLER W/BUILT IN TIMER, EMERGENCY STOP PUSHBUTTON AND ALARM	10"x10"x5"	15	2/SP4.2
36	CHEMICAL CONTROLLER	BECSYS BECS5, AUTOMATIC BACKWASH CONTROL	12" x 15" x 8"	25	NA
37	ACID METERING PUMP SYSTEM	STENNER 85M4, SINGLE HEAD, ADJUSTABLE OUTPUT, 25 PSI, MAXIMUM 60 GALLONS ACID PER DAY	5" x 6" x 10"	10	NA
38	CHLORINE METERING PUMP SYSTEM	STENNER 85M3, SINGLE HEAD, ADJUSTABLE OUTPUT, 25 PSI, MAXIMUM 40 GALLONS CHLORINE PER DAY	5" x 6" x 10"	10	NA
39	CO2 FEEDER	EKO3 CO2 CONTROLLER 20-220 SCFH	6"x6"x4"	10	NA
40	UV SYSTEM	ETS WF-115-3-N, (1) 1.5KW MEDIUM PRESSURE LAMPS, 3" WATER CONNECTION, 208V, 1 PHASE, MAXIMUM 211 GPM	30"x24"x10"	125	NA
41	WATER LEVEL CONTROL	BECS SURGE TANK LEVELSENSOR (SLS) , LINKED TO THE BECSYS CHEMICAL CONTROLLER	NA	NA	NA
42	FLOW METER	GF SIGNET 2536 ROTOR-X PADDLEWHEEL FLOW SENSOR, FLOW RANGE 0.3-20 FT/S	4" x 4" x 4"	5	NA

ALL EQUIPMENT NOTED ARE BASIS OF DESIGN & DESIGNATE MINIMUM PERFORMANCE STANDARDS. EQUIVALENT PRODUCTS MAY BE USED PROVIDED THEY ARE SUBMITTED TO ENGINEER OF RECORD FOR APPROVAL.

EQUIPMENT ROOM PLAN
1/2" = 1'-0"

1

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PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

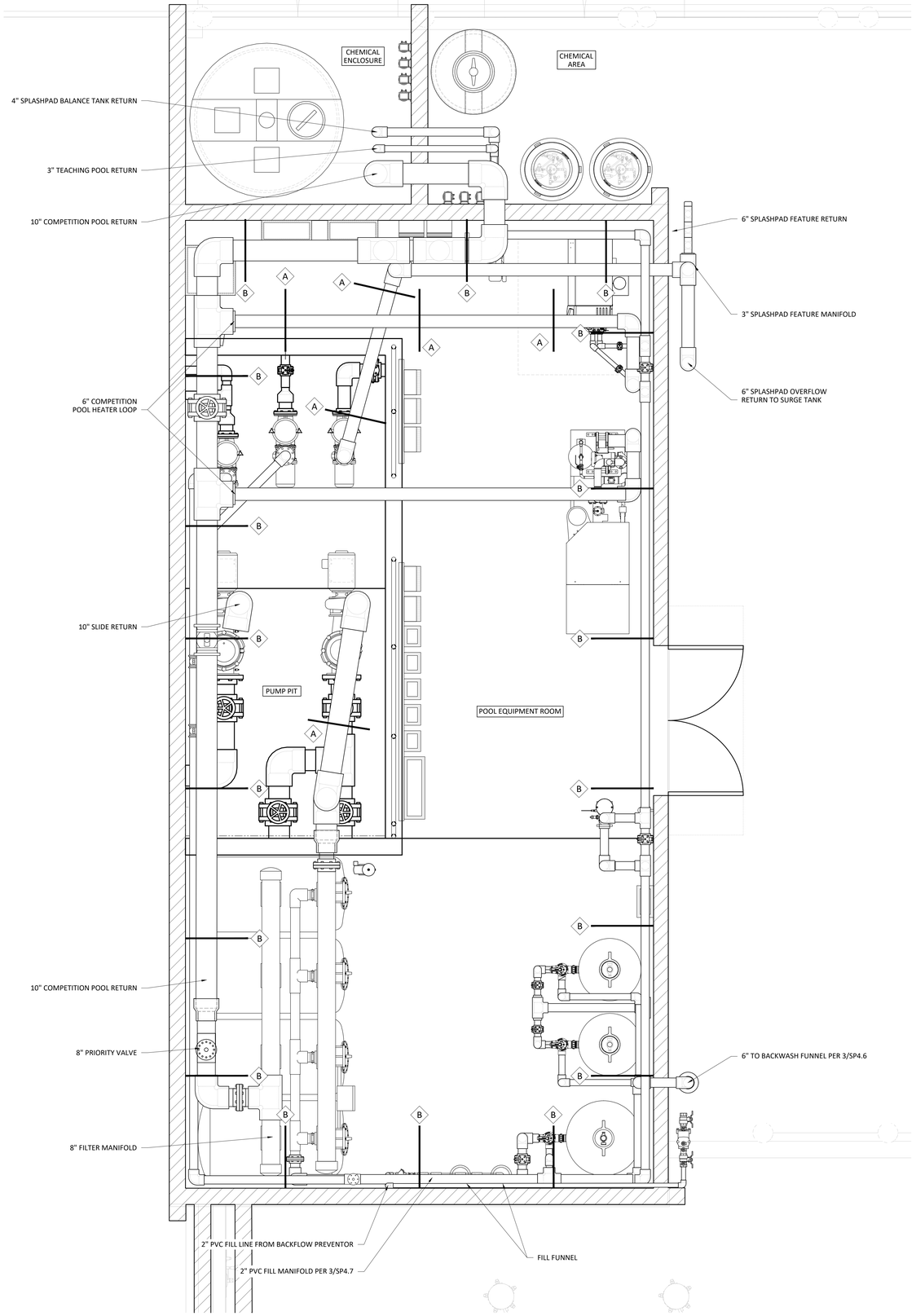
BUILDING P
EQUIPMENT ROOM PLAN

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: RD
PROJECT MANAGER: BR
JOB NUMBER: 791

SHEET NUMBER
SP4.0-1

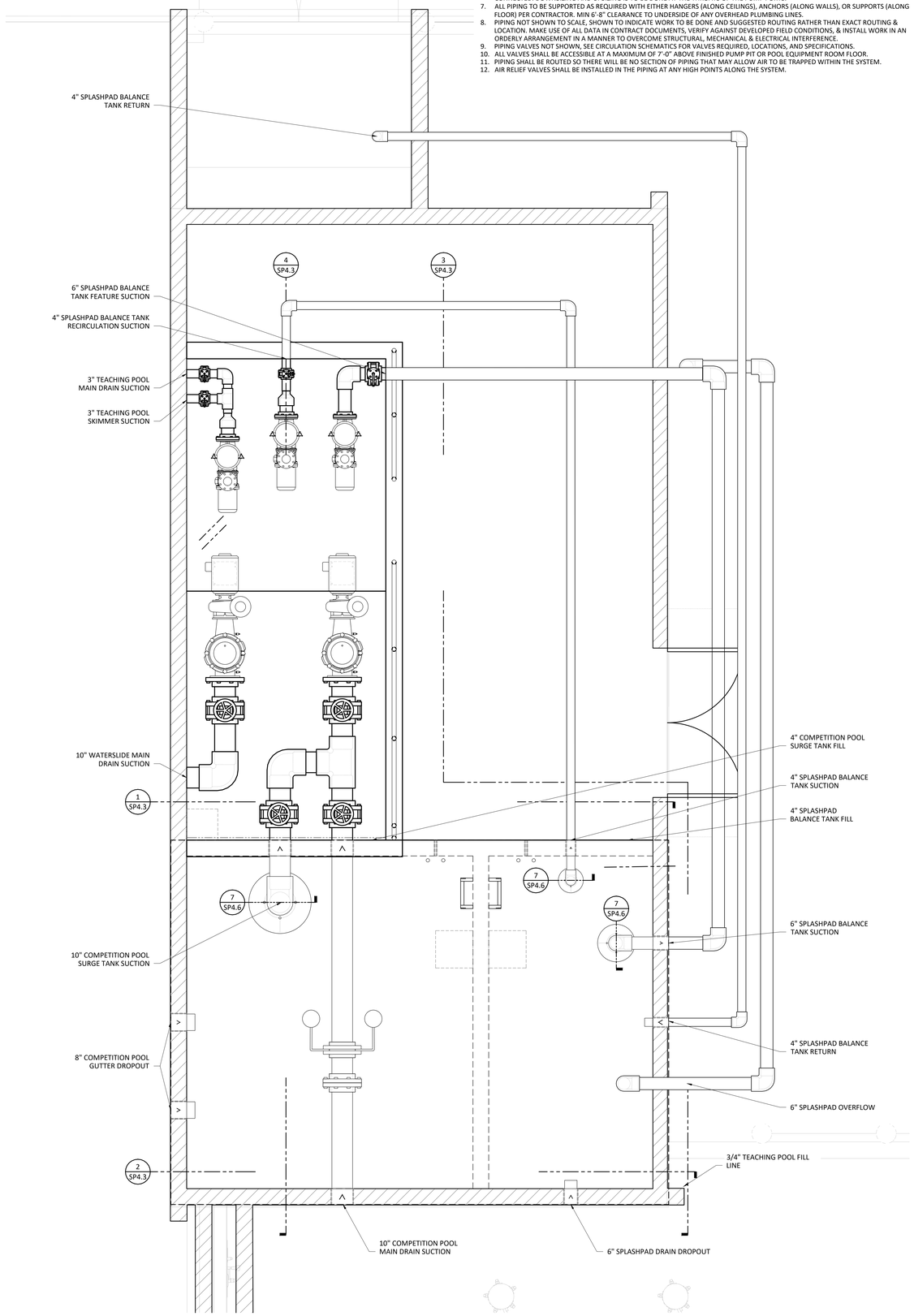
PIPE SUPPORTS	
CALLOUT	**DESCRIPTION**
A	PIPE SUPPORT HANGER SEE DETAIL 11/SP4.8
B	PIPE SUPPORT BRACKET SEE DETAIL 12/SP4.8



EQUIPMENT ROOM ABOVE GRADE PIPING PLAN

1/2" = 1'-0"

2



EQUIPMENT ROOM BELOW GRADE PIPING PLAN

1/2" = 1'-0"

1

EQUIPMENT ROOM PIPING NOTES:

1. ALL PIPING TO BE SCHEDULE 80 PVC UNLESS NOTED OTHERWISE.
2. SEE PIPING PLANS TO VERIFY PIPE SIZES AND FOR CONTINUATION OF PIPING. REPORT DISCREPANCIES IMMEDIATELY TO THE ARCHITECT / ENGINEER.
3. POOL CONTRACTOR SHALL IDENTIFY ALL PIPING AND VALVES BY COLOR CODING OR LABELS AND DIRECTION OF FLOW ARROWS IN ACCORDANCE WITH LOCAL HEALTH CODE.
4. PIPING AT HEATER TO BE CPVC UNLESS NOTED OTHERWISE.
5. REDUCER FITTINGS SHALL BE USED WHERE PIPE SIZES CHANGE.
6. NO COMMON PIPING OR FITTING ON THE SUCTION SIDE OF THE PUMP IS TO BE SMALLER THAN THE LARGEST SINGLE ELEMENT CONNECTED. DOWNSIZING AND UPSIZING IS TO BE DONE AT THE THROATS OF THE PUMP PORTS.
7. ALL PIPING TO BE SUPPORTED AS REQUIRED WITH EITHER HANGERS (ALONG CEILINGS), ANCHORS (ALONG WALLS), OR SUPPORTS (ALONG FLOOR) PER CONTRACTOR. MIN 6'-8" CLEARANCE TO UNDERSIDE OF ANY OVERHEAD PLUMBING LINES.
8. PIPING NOT SHOWN TO SCALE, SHOWN TO INDICATE WORK TO BE DONE AND SUGGESTED ROUTING RATHER THAN EXACT ROUTING & LOCATION. MAKE USE OF ALL DATA IN CONTRACT DOCUMENTS, VERIFY AGAINST DEVELOPED FIELD CONDITIONS, & INSTALL WORK IN AN ORDERLY ARRANGEMENT IN A MANNER TO OVERCOME STRUCTURAL, MECHANICAL & ELECTRICAL INTERFERENCE.
9. PIPING VALVES NOT SHOWN, SEE CIRCULATION SCHEMATICS FOR VALVES REQUIRED, LOCATIONS, AND SPECIFICATIONS.
10. ALL VALVES SHALL BE ACCESSIBLE AT A MAXIMUM OF 7'-0" ABOVE FINISHED PUMP PIT OR POOL EQUIPMENT ROOM FLOOR.
11. PIPING SHALL BE ROUTED SO THERE WILL BE NO SECTION OF PIPING THAT MAY ALLOW AIR TO BE TRAPPED WITHIN THE SYSTEM.
12. AIR RELIEF VALVES SHALL BE INSTALLED IN THE PIPING AT ANY HIGH POINTS ALONG THE SYSTEM.

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SHEET TITLE
BUILDING P
EQUIPMENT ROOM PIPING PLAN

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

DATE: 9/24/2025

TECHNICIAN: RD

PROJECT MANAGER: BR

JOB NUMBER: 791

SHEET NUMBER
SP4.1-1

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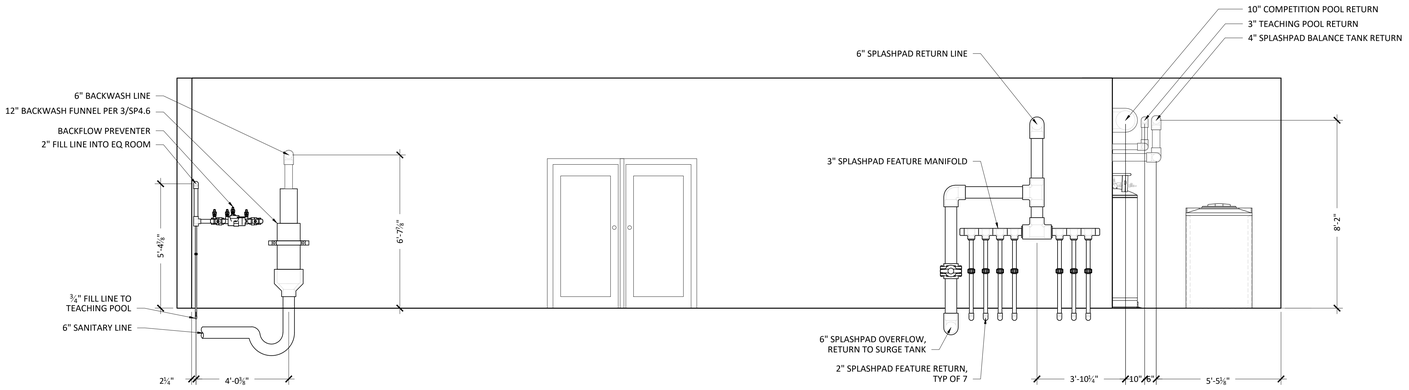
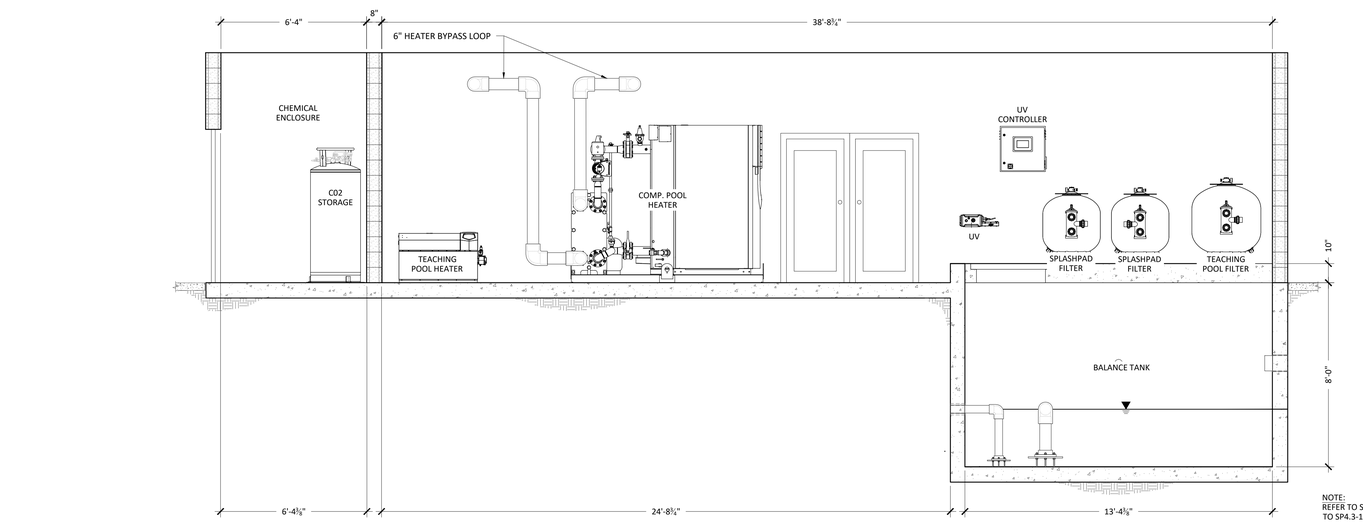
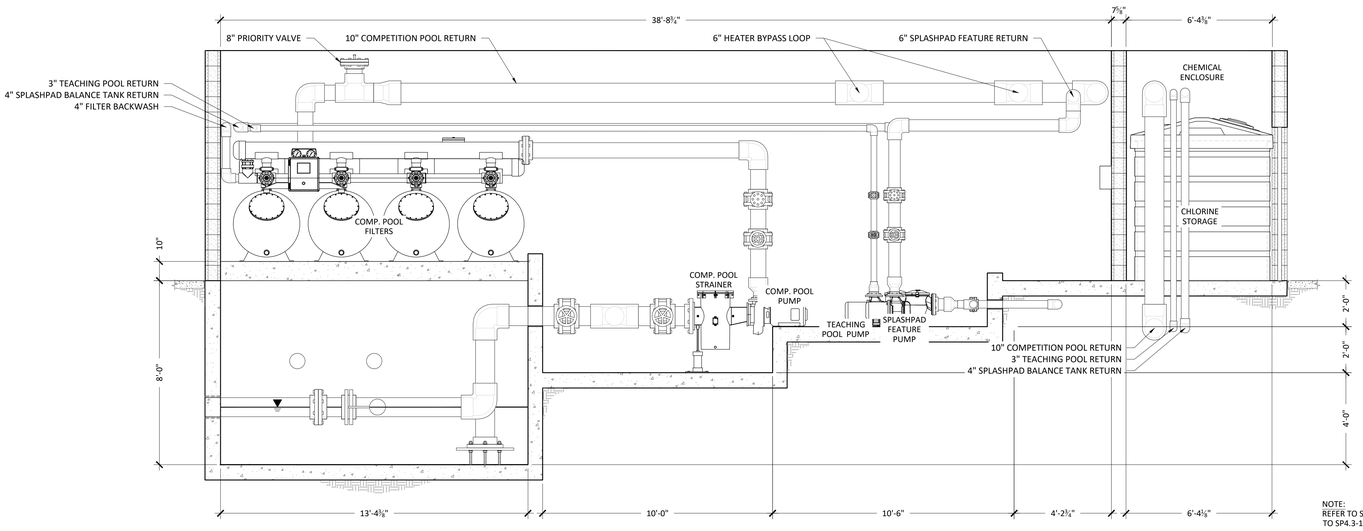


EQUIPMENT ROOM ELEVATION 7
3/8" = 1'-0"



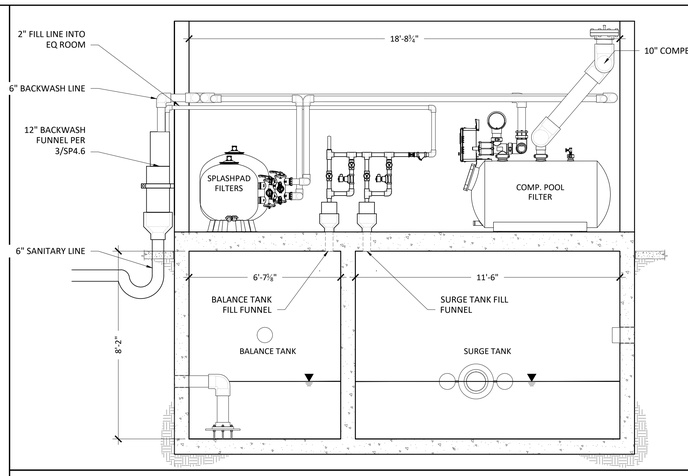
NOTE:
REFER TO SP4.1-1 FOR PIPE SUPPORTS. REFER TO SP4.3-1 FOR PIPE PENETRATION ELEVATIONS.

EQUIPMENT ROOM SECTION 6
3/8" = 1'-0"

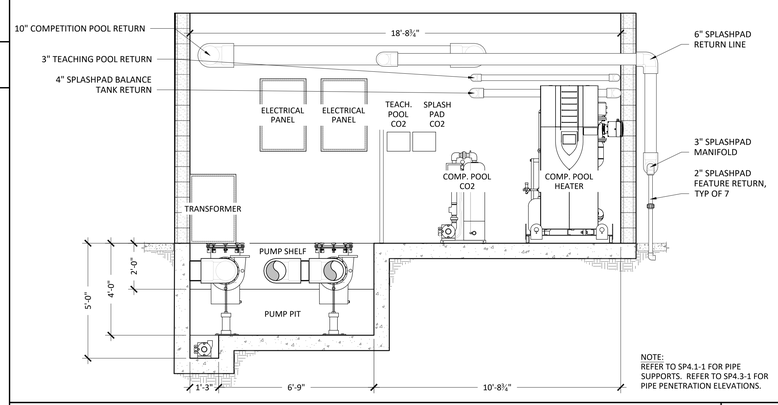


NOTE:
REFER TO SP4.1-1 FOR PIPE SUPPORTS. REFER TO SP4.3-1 FOR PIPE PENETRATION ELEVATIONS.

EQUIPMENT ROOM SECTION 5
3/8" = 1'-0"

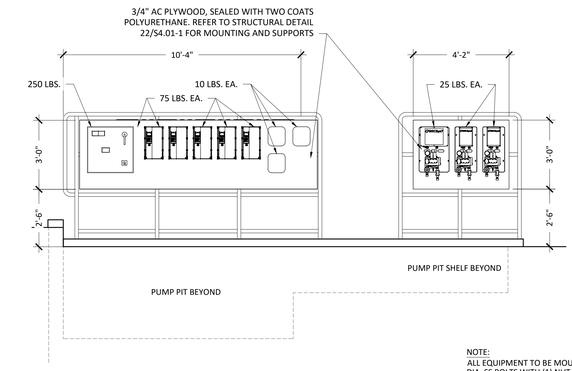


EQUIPMENT ROOM ELEVATIONS 4
3/8" = 1'-0"



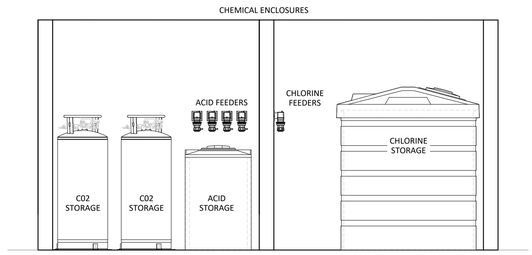
NOTE:
REFER TO SP4.1-1 FOR PIPE SUPPORTS. REFER TO SP4.3-1 FOR PIPE PENETRATION ELEVATIONS.

EQUIPMENT ROOM ELEVATIONS 3
3/8" = 1'-0"



NOTE:
ALL EQUIPMENT TO BE MOUNTED WITH ⅜" MIN. DIA. SS BOLTS WITH (1) NUT AND (2) FLAT WASHERS.

EQUIPMENT ROOM PANEL ELEVATION 2
3/8" = 1'-0"



CHEMICAL ROOM ELEVATION 1
3/8" = 1'-0"

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DATE: 9/30/2025

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PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE
BUILDING P
EQUIPMENT ROOM ELEVATIONS

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: RD
PROJECT MANAGER: BR
JOB NUMBER: 791

SHEET NUMBER
SP4.2-1

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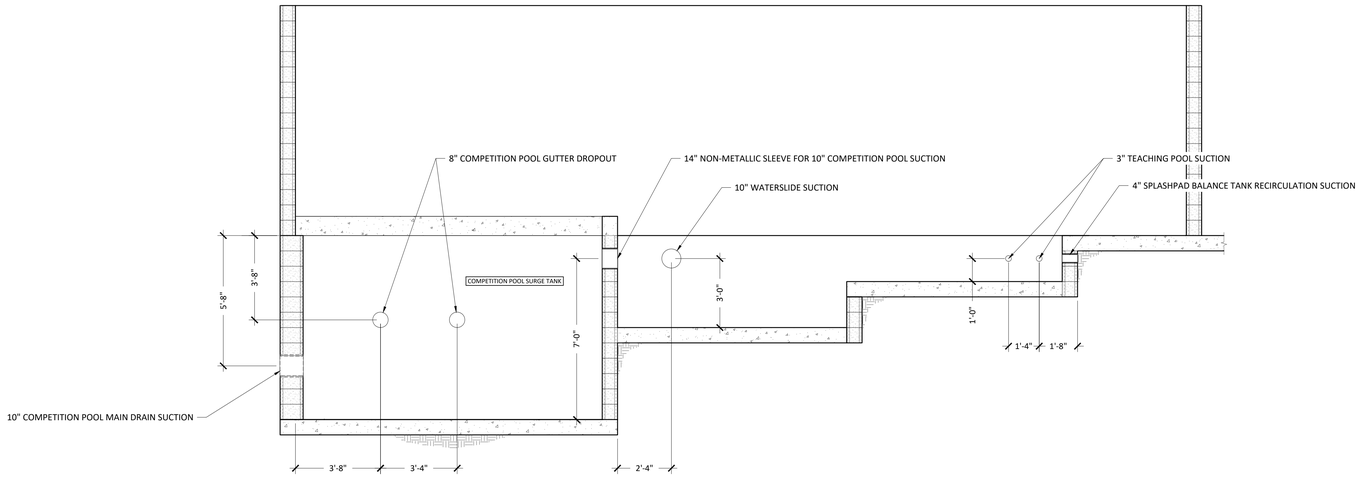
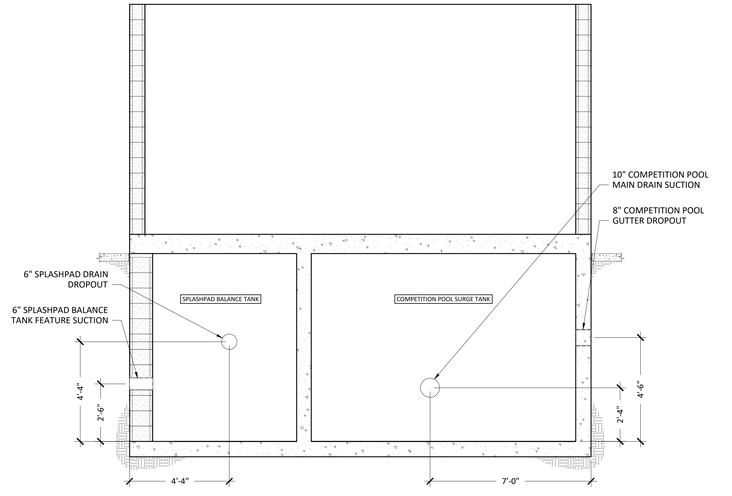


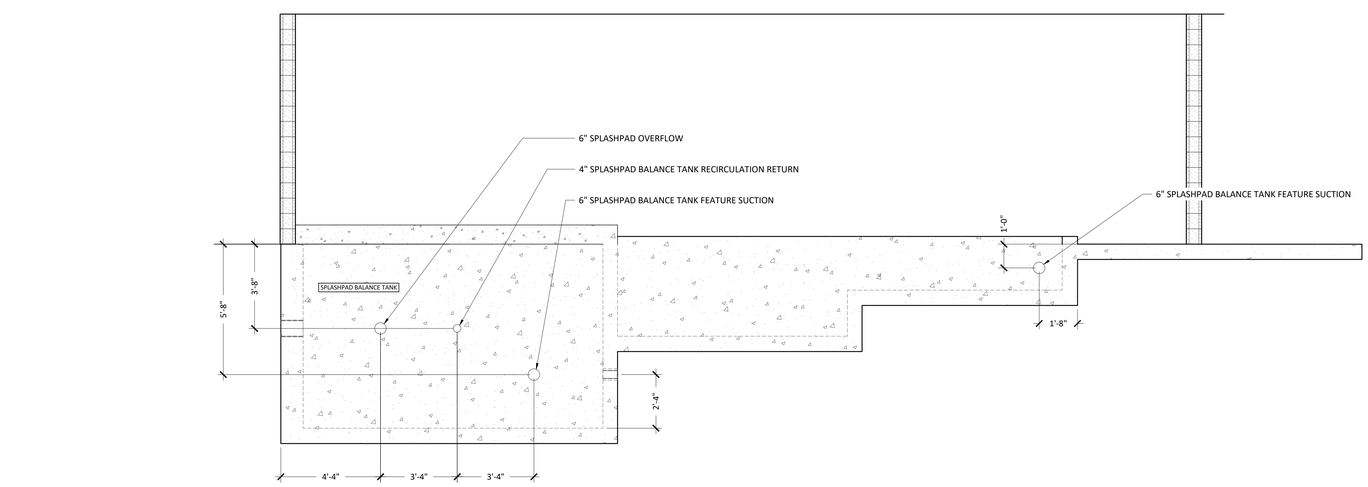
EQUIPMENT ROOM PIPE PENETRATION ELEVATION
3/8" = 1'-0"

4



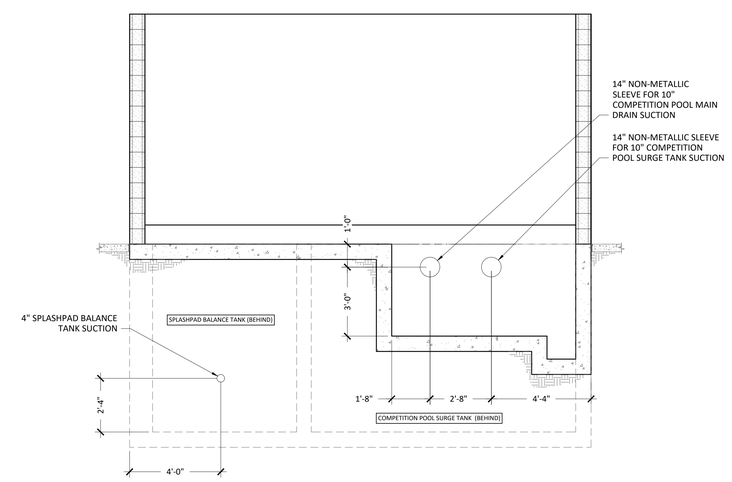
EQUIPMENT ROOM PIPE PENETRATION ELEVATION
3/8" = 1'-0"

2



EQUIPMENT ROOM PIPE PENETRATION ELEVATION
3/8" = 1'-0"

3



EQUIPMENT ROOM PIPE PENETRATION ELEVATION
3/8" = 1'-0"

1

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JAMES P. McCLELLAND
C-21797
07/31/2027
STATE OF CALIFORNIA

PROJECT

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CLIENT

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SHEET TITLE
BUILDING P
EQUIPMENT ROOM ELEVATIONS

PHASE DESCRIPTION
100% CD - DSA APPROVAL
INCREMENT 1

DATE: 9/24/2025

TECHNICIAN: RD

PROJECT MANAGER: BR

JOB NUMBER: 791

SHEET NUMBER
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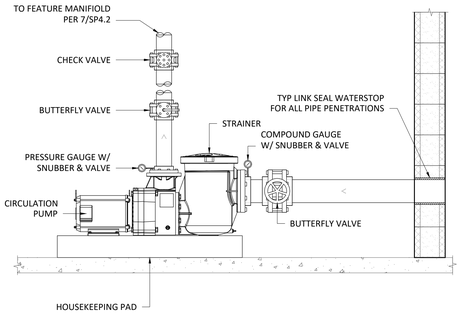
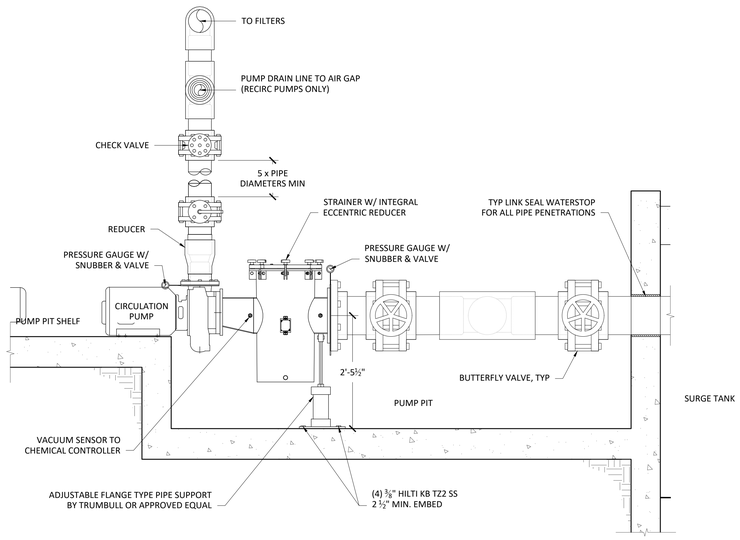


FEATURE PUMP ELEVATION
N.T.S.

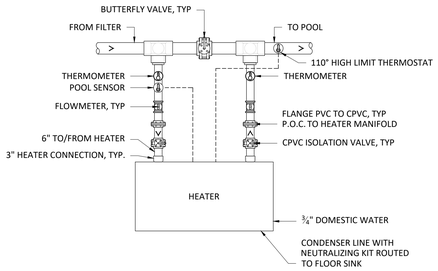
3



CIRCULATION PUMP ELEVATION
3/4" = 1'-0"

2

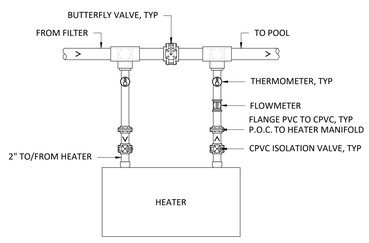
HEATER PIPING NOTES:
1. HEATER BRANCH LINES MUST BE EQUAL LENGTH.
2. HEATER BRANCH LINES MUST HAVE EQUAL FITTINGS.
3. VERIFY ALL DIMENSIONS AND LOCATIONS ON SITE PRIOR TO INSTALLATION.
4. START-UP OF HEATERS BY QUALIFIED MANUFACTURERS' REPRESENTATIVE ONLY.
5. HEATER SYSTEM IS SHOWN DIAGRAMMATICALLY.
6. REFER TO MANUFACTURER'S RECOMMENDATIONS PRIOR TO PIPING AND INSTALLATION OF MULTIPLE HEATER SYSTEM.



COMPEITION POOL SINGLE HEATER PIPING SCHEMATIC
N.T.S.

5

HEATER PIPING NOTES:
1. HEATER BRANCH LINES MUST BE EQUAL LENGTH.
2. HEATER BRANCH LINES MUST HAVE EQUAL FITTINGS.
3. VERIFY ALL DIMENSIONS AND LOCATIONS ON SITE PRIOR TO INSTALLATION.
4. START-UP OF HEATERS BY QUALIFIED MANUFACTURERS' REPRESENTATIVE ONLY.
5. HEATER SYSTEM IS SHOWN DIAGRAMMATICALLY.
6. REFER TO MANUFACTURER'S RECOMMENDATIONS PRIOR TO PIPING AND INSTALLATION OF MULTIPLE HEATER SYSTEM.

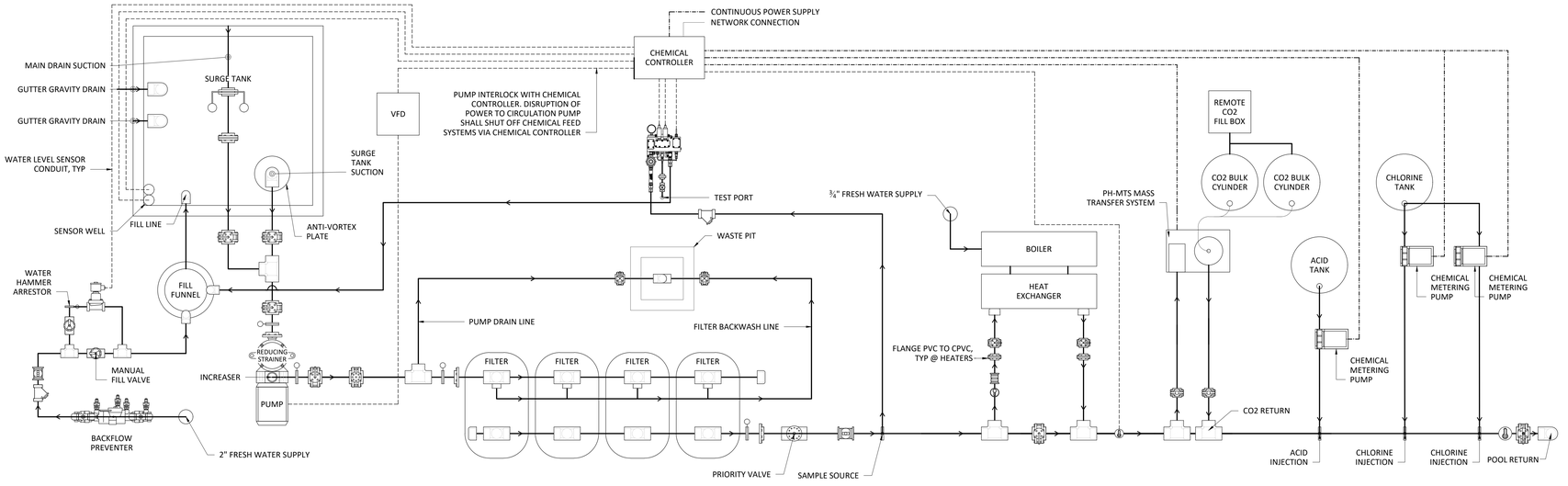


TEACHING POOL SINGLE HEATER PIPING SCHEMATIC
N.T.S.

4

EQUIPMENT VALVES SCHEDULE	
CHECK VALVES	CENTERLINE, TECHNO, OR EQUIVALENT
2 & 3 PORT VALVES	HAYWARD, ASAHI, OR EQUIVALENT
FILTER VALVES	HAYWARD, ASAHI, OR EQUIVALENT
BUTTERFLY VALVES, **TYP	3" OR SMALLER - SPEARS, ASAHI, OR EQUIVALENT; 4" OR LARGER - DEZURIK OR EQUIVALENT
**FOR LINE SIZES OF 2.5" OR SMALLER, 2-PORT VALVES MAY BE USED IN LIEU OF BUTTERFLY VALVES. HAYWARD, PENTAIR OR EQUAL.	

SCHEMATIC LEGEND					
	BUTTERFLY VALVE		UNION		EXTENSION VALVE
	BALL VALVE		FLANGE BREAK		SOLENOID VALVE
	CHECK VALVE		FLOWMETER		PRESSURE GAUGE & COCK
	MULTI-PORT VALVE		IMPACT FLOWMETER		Y STRAINER
	MODULATING FLOAT VALVE		TEMP SENSOR		THERMOMETER
	WATER LINE		VOLTAGE CONTROL WIRING		POWER LINE



NOTE:
INJECT ALL CHEMICALS INTO CHEMICAL BYPASS LINE IN THE CHEMICAL ROOM.

COMPETITION POOL CIRCULATION SYSTEM SCHEMATIC
N.T.S.

1

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C-21797
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AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE
BUILDING P
EQUIPMENT ROOM
SCHEMATICS

PHASE DESCRIPTION
100% CD - DSA APPROVAL
INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: RD
PROJECT MANAGER: BR
JOB NUMBER: 791

SHEET NUMBER
SP4.4-1

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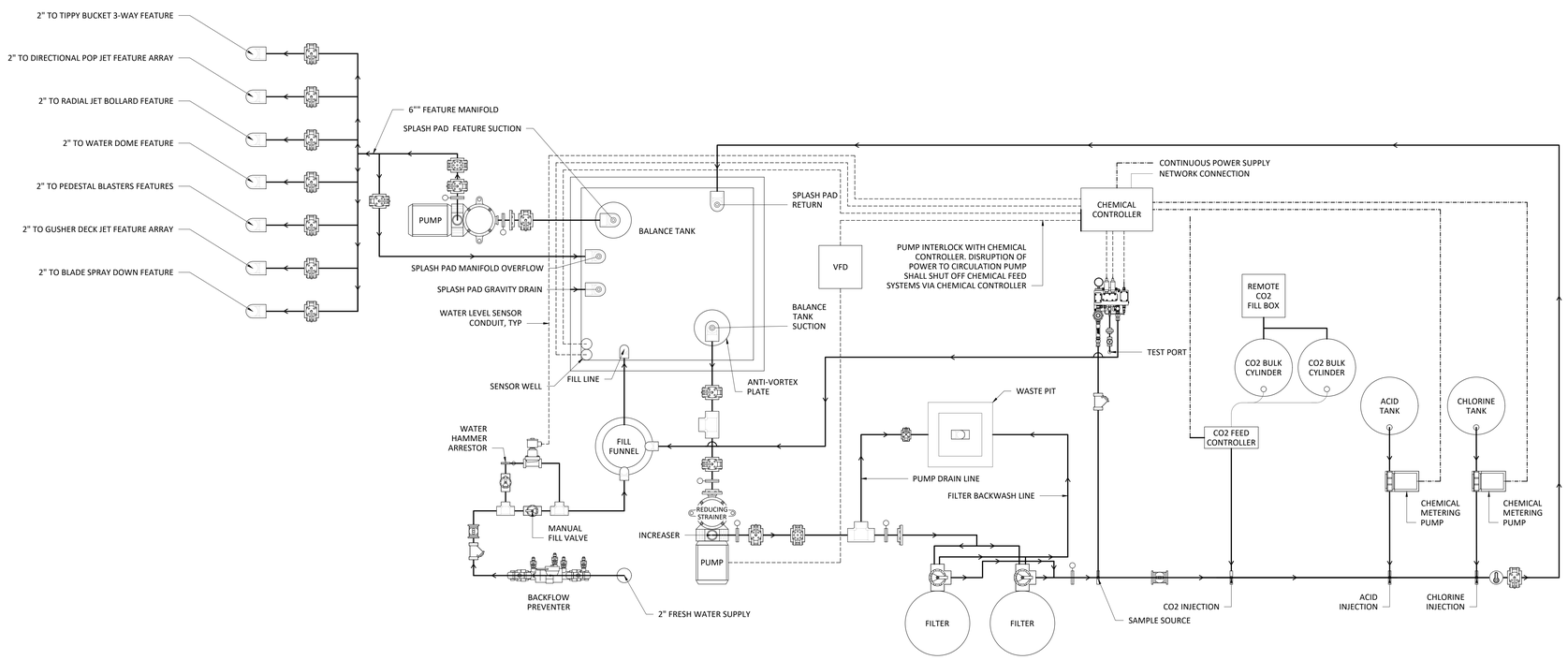

SCHEMATIC LEGEND					
	BUTTERFLY VALVE		UNION		EXTENSION VALVE
	BALL VALVE		FLANGE BREAK		SOLENOID VALVE
	CHECK VALVE		FLOWMETER		PRESSURE GAUGE & COCK
	MULTI-PORT VALVE		IMPACT FLOWMETER		Y STRAINER
	MODULATING FLOAT VALVE		TEMP SENSOR		THERMOMETER
	WATER LINE		VOLTAGE CONTROL WIRING		POWER LINE

EQUIPMENT VALVES SCHEDULE	
CHECK VALVES	CENTERLINE, TECHNO, OR EQUIVALENT
2 & 3 PORT VALVES	HAYWARD, ASAHI, OR EQUIVALENT
FILTER VALVES	HAYWARD, ASAHI, OR EQUIVALENT
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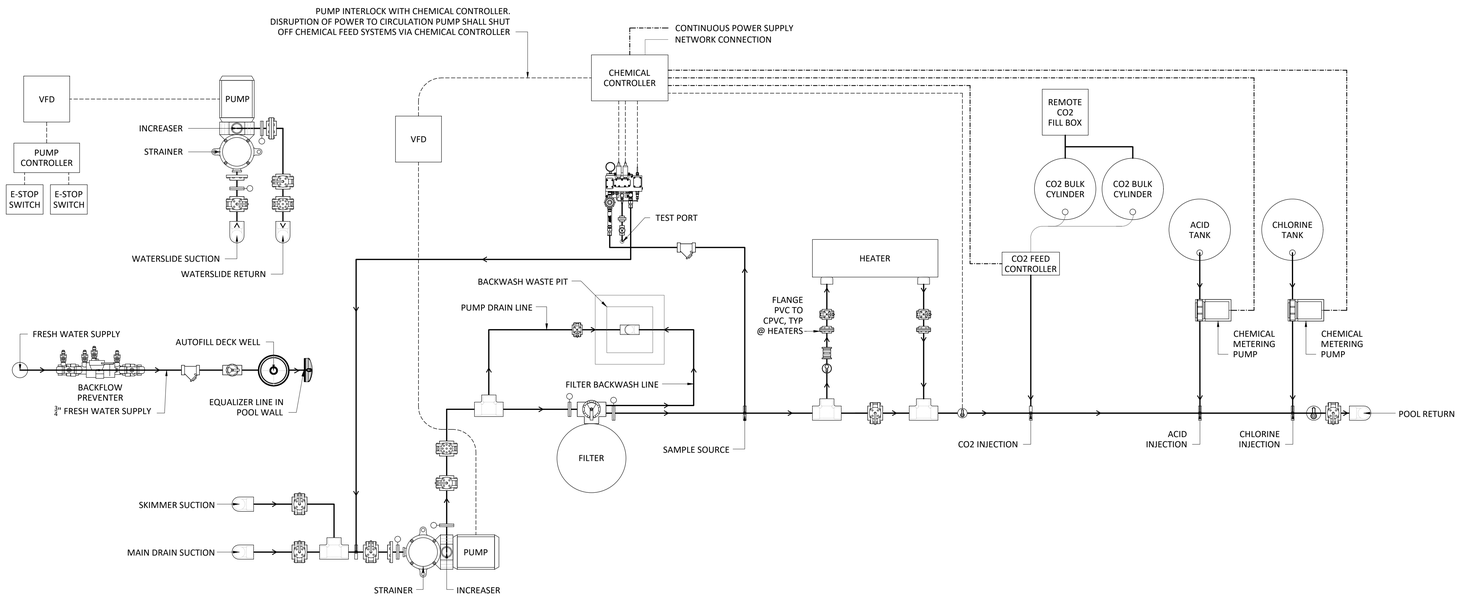
**FOR LINE SIZES OF 2.5" OR SMALLER, 2-PORT VALVES MAY BE USED IN LIEU OF BUTTERFLY VALVES. HAYWARD, PENTAIR OR EQUAL.

NOTE:
INJECT ALL CHEMICALS INTO CHEMICAL BYPASS LINE IN THE CHEMICAL ROOM.

SPLASHPAD CIRCULATION SYSTEM SCHEMATIC
N.T.S.

2



TEACHING POOL CIRCULATION SYSTEM SCHEMATIC
N.T.S.

1

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C-21797
STATE OF CALIFORNIA

PROJECT

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6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE
BUILDING P
EQUIPMENT ROOM
SCHEMATICS

PHASE DESCRIPTION
100% CD - DSA APPROVAL
INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: RD
PROJECT MANAGER: BR
JOB NUMBER: 791

SHEET NUMBER
SP4.5-1

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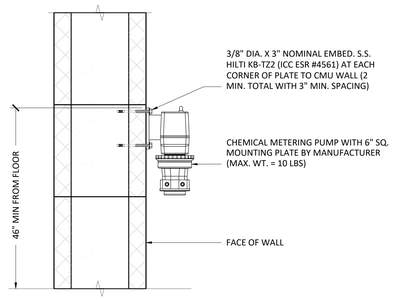
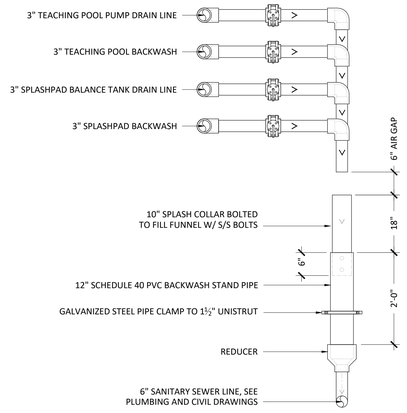
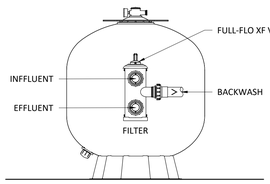


NOTES:
1. PROVIDE INSTALL TORQUE OF 15 FT-LBS.

STENNER CHEMICAL PUMP MOUNTING
N.T.S. (6)

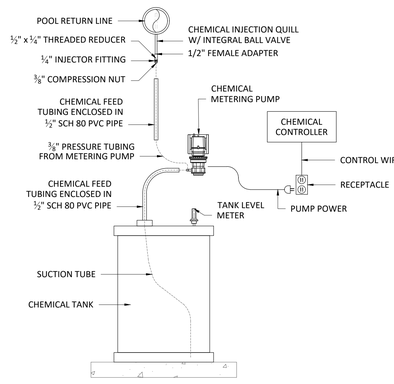


BACKWASH STAND PIPE
N.T.S. (3)

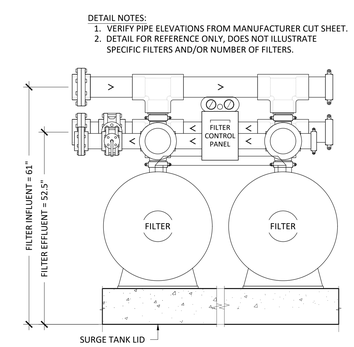


TEACHING POOL & SPLASHPAD FILTER ELEVATION
N.T.S. (5)

NOTES:
1. TANKS USED FOR THE STORAGE OF HAZARDOUS MATERIALS SHALL BE PLACARDED WITH HAZARD IDENTIFICATION SIGNS AS SPECIFIED IN CFC STANDARD 79-3 FOR THE MATERIAL CONTAINED. SIGNS SHALL BE DURABLE. THE SIZE, COLOR, AND LETTERING SHALL BE IN ACCORDANCE WITH NATIONALLY RECOGNIZED STANDARDS.
2. PIPING, TUBING, VALVES, AND RELATED COMPONENTS SHALL BE SEISMICALLY BRACED.
3. PIPING AND TUBING SHALL BE IDENTIFIED TO INDICATE THE MATERIAL CONVEYED.
4. EMERGENCY SHUT OFF VALVES SHALL BE IDENTIFIED AND THE LOCATION SHALL BE CLEARLY VISIBLE AND INDICATED BY A SIGN.



CHEMICAL FEED TANK
N.T.S. (2)

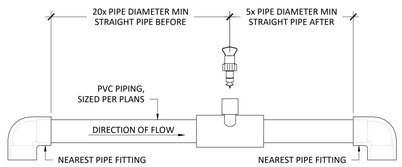


NOTES:
1. PROVIDE INSTALL TORQUE OF 15 FT-LBS.

WALL MOUNTED ELECTRICAL PANEL ANCHORAGE DETAIL
3/4" = 1'-0" (7)

DETAIL NOTES:
1. VERIFY PIPE ELEVATIONS FROM MANUFACTURER CUT SHEET.
2. DETAIL FOR REFERENCE ONLY, DOES NOT ILLUSTRATE SPECIFIC FILTERS AND/OR NUMBER OF FILTERS.

COMPETITION POOL FILTER ELEVATION
N.T.S. (4)



FLOW METER SENSOR
N.T.S. (1)

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SHEET TITLE

BUILDING P
EQUIPMENT ROOM DETAILS

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100% CD - DSA APPROVAL
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SP4.6-1

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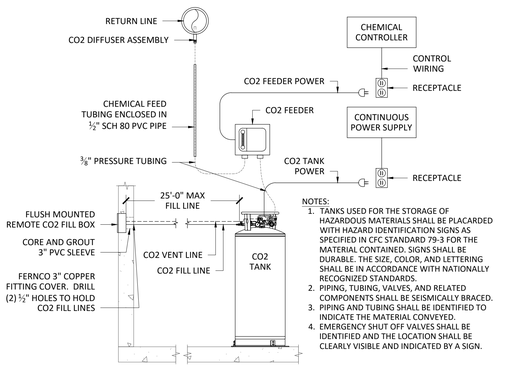
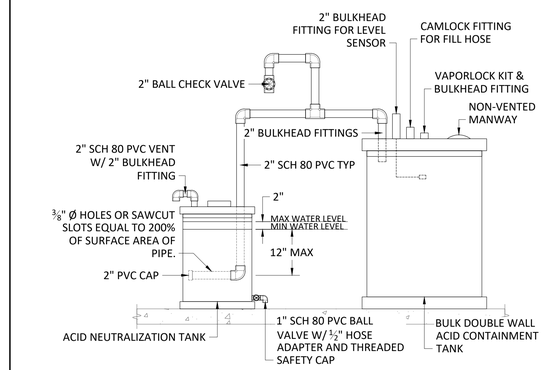
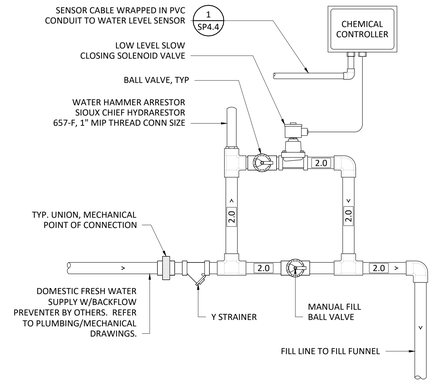


SPLASHPAD CO2 FEED SYSTEM
N.T.S. — 9



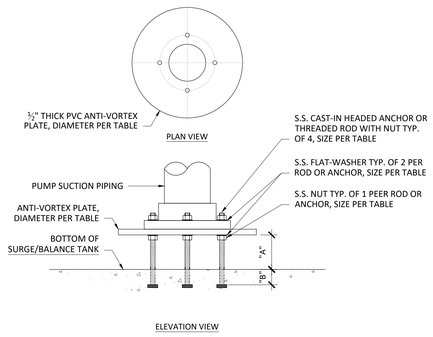
ACID VAPOR RECOVERY
N.T.S. — 6



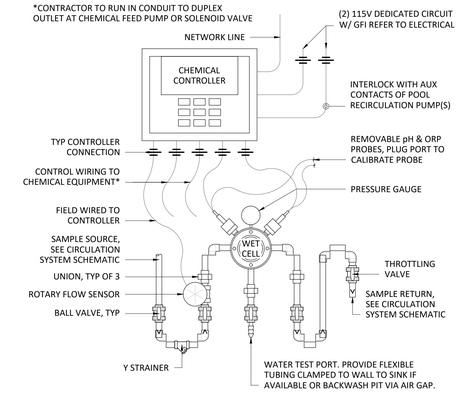
AUTOFILL MANIFOLD
3/4" = 1'-0" — 3

ANTI-VORTEX PLATE TABLE				
SUCTION PIPE SIZE	VORTEX PLATE DIAMETER	HARDWARE SIZE	DIMENSION "A"	MIN EMBEDMENT "B"
2½"	9"	⅝"	3"	4"
3"	9"	⅝"	3"	4"
4"	12"	⅝"	3"	4"
6"	16"	¾"	3"	4"
8"	18"	¾"	4"	4"
10"	24"	¾"	4"	4"
12"	36"	¾"	4"	4"

ALL HARDWARE TO BE STAINLESS STEEL

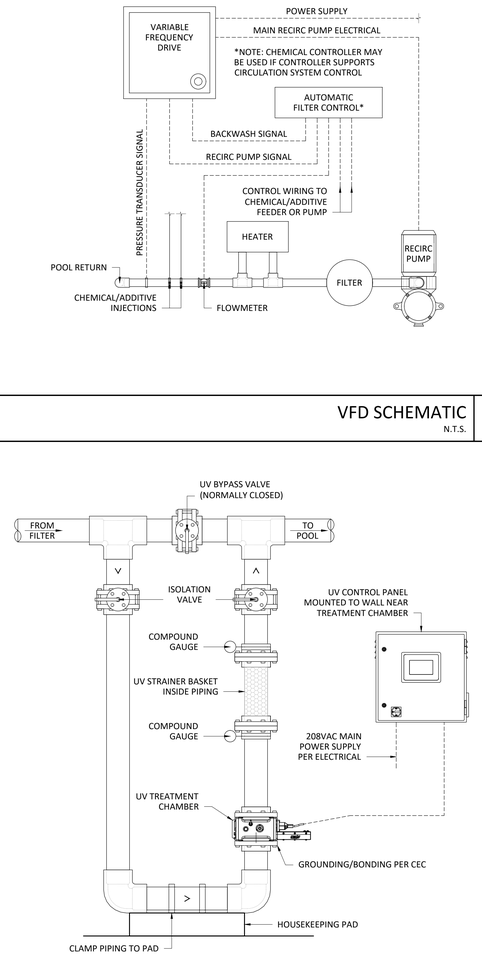


ANTI-VORTEX PLATE
N.T.S. — 8

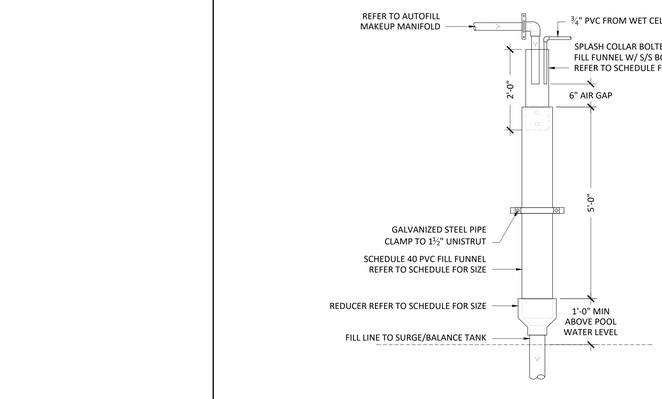


NOTE: ALL CHEMICAL CONTROLLER PIPING TO BE ¾" Ø U.N.O.

CHEMICAL CONTROLLER SCHEMATIC
N.T.S. — 5



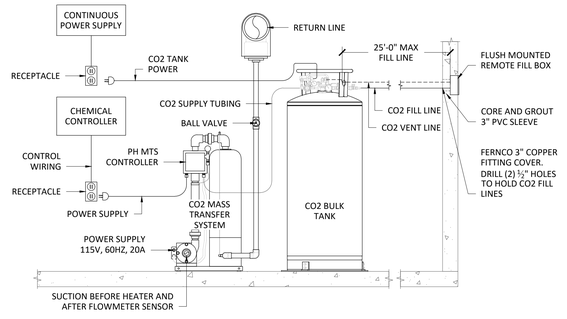
VFD SCHEMATIC
N.T.S. — 2



FILL FUNNEL SCHEDULE				
BODY OF WATER	FILL FUNNEL SIZE	REDUCER SIZE	SPLASH COLLAR SIZE	FILL LINE SIZE TO SURGE/BALANCE TANK
COMPETITION	0'-6"	6"X4"	0'-4"	0'-4"
SPLASHPAD	0'-6"	6"X4"	0'-4"	0'-4"

FILL FUNNEL
N.T.S. — 7

NOTES:
1. TANKS USED FOR THE STORAGE OF HAZARDOUS MATERIALS SHALL BE PLACARDED WITH HAZARD IDENTIFICATION SIGNS AS SPECIFIED IN CFC STANDARD 79-3 FOR THE MATERIAL CONTAINED. SIGNS SHALL BE DURABLE. THE SIZE, COLOR, AND LETTERING SHALL BE IN ACCORDANCE WITH NATIONALLY RECOGNIZED STANDARDS.
2. PIPING, TUBING, VALVES, AND RELATED COMPONENTS SHALL BE SEISMICALLY BRACED.
3. PIPING AND TUBING SHALL BE IDENTIFIED TO INDICATE THE MATERIAL CONVEYED.
4. EMERGENCY SHUT OFF VALVES SHALL BE IDENTIFIED AND THE LOCATION SHALL BE CLEARLY VISIBLE AND INDICATED BY A SIGN.



CO2 FEED SYSTEM
N.T.S. — 4

UV SYSTEM
SCALE — 1

IDENTIFICATION STAMP
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APP: 02-123309 INC: 1
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 9/30/2025

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SEAL

LICENSED ARCHITECT
JAMES P. McCLELLAND
C-21797
07/31/2026
STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

BUILDING P
EQUIPMENT ROOM DETAILS

PHASE DESCRIPTION
100% CD - DSA APPROVAL
INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: RD
PROJECT MANAGER: BR
JOB NUMBER: 791

SHEET NUMBER
SP4.7-1

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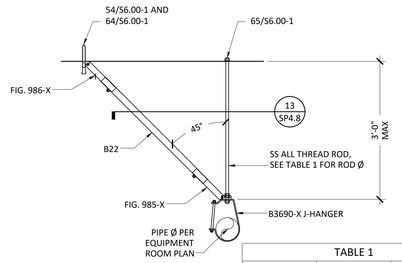
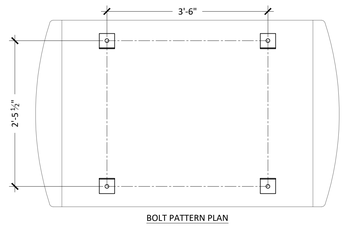


TABLE 1		
PIPE Ø	ROD Ø	SPACING
10"	7/8"	6'-0" MAX
6"	1/2"	6'-0" MAX
4"	1/2"	6'-0" MAX
3"	1/2"	8'-0" MAX

NOTE: CONTRACTOR SHALL FOLLOW ALL RECOMMENDATIONS FROM MANUFACTURER.

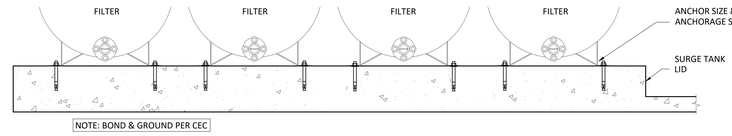
BRACE/HANGER SUPPORT
N.T.S. (11)



BOLT PATTERN PLAN

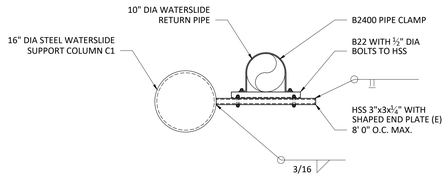
ANCHORAGE SCHEDULE				
EQUIPMENT	WEIGHT	ANCHOR	EMBEDMENT	INSTALL TORQUE
FILTER	5,030 LBS	1/2"Ø HILTI KB TZ2-SS (ICC ESR #4266)	3.00 IN	40 FT-LBS
ALL ANCHORS, NUTS, AND WASHERS SHALL BE STAINLESS STEEL				

NOTE: FILTER ANCHORS HAVE BEEN DESIGNED TO INCLUDE THE SEISMIC MASS OF THE FILTER MANIFOLD ABOVE.



NOTE: BOND & GROUND PER CEC

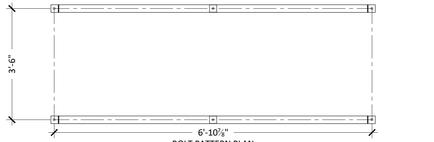
FILTER ANCHORAGE
N.T.S. (4)



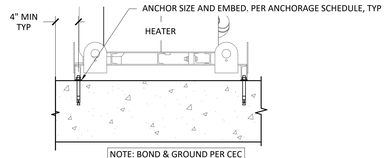
TOP VIEW

WATERSLIDE PIPING LATERAL SUPPORT
N.T.S. (14)

ANCHORAGE SCHEDULE				
EQUIPMENT	EQUIPMENT WEIGHT	ANCHOR TYPE	EMBEDMENT	INSTALLATION TORQUE
HEATER	3,500 lbs	⅜" Ø HILTI KB TZ2-SS (ICC ESR #4266)	2.50 IN	30 FT-LBS
ALL ANCHORS, NUTS, AND WASHERS SHALL BE STAINLESS STEEL				



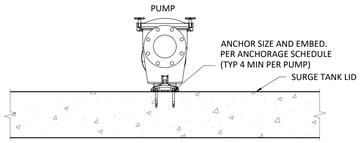
BOLT PATTERN PLAN



NOTE: BOND & GROUND PER CEC

HEATER ANCHORAGE
N.T.S. (10)

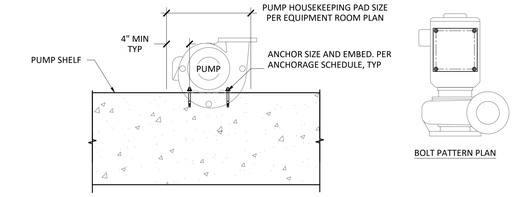
ANCHORAGE SCHEDULE				
EQUIPMENT	WEIGHT	ANCHOR	EMBEDMENT	INSTALL TORQUE
C-SERIES PUMP	400 LBS	3/8"Ø HILTI KB-TZ2-SS (ICC ESR #4266)	2.50 IN	30 FT-LBS
ALL ANCHORS, NUTS, AND WASHERS SHALL BE STAINLESS STEEL				



NOTE: BOND & GROUND PER CEC

SMALL PUMP ANCHORAGE
N.T.S. (7)

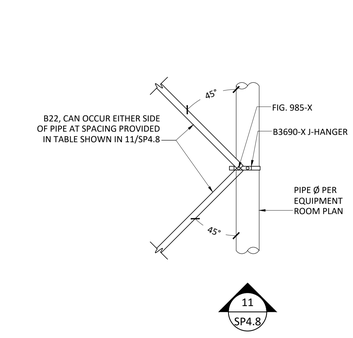
ANCHORAGE SCHEDULE				
EQUIPMENT	WEIGHT	ANCHOR	EMBEDMENT	INSTALL TORQUE
COMPETITION POOL /WATERSLIDE PUMP	650 LBS	3/8"Ø HILTI KB-TZ2-SS (ICC ESR #4266)	2.50 IN	30 FT-LBS
ALL ANCHORS, NUTS, AND WASHERS SHALL BE STAINLESS STEEL				



BOLT PATTERN PLAN

NOTE: BOND & GROUND PER CEC

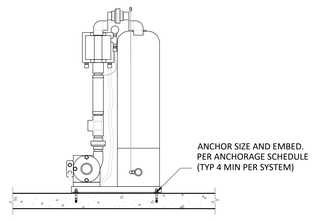
LARGE PUMP ANCHORAGE
N.T.S. (3)



NOTE: CONTRACTOR SHALL FOLLOW ALL RECOMMENDATIONS FROM MANUFACTURER.

SEISMIC SUPPORT PLAN VIEW
N.T.S. (13)

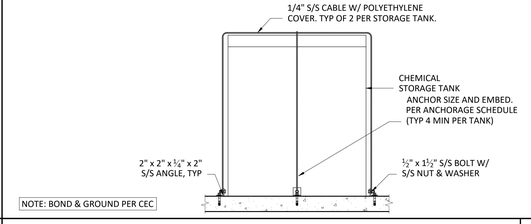
ANCHORAGE SCHEDULE				
EQUIPMENT	WEIGHT	ANCHOR	EMBEDMENT	INSTALL TORQUE
CO2 FEED SYSTEM	400 LBS	3/8"Ø HILTI KB TZ2-SS (ICC ESR #4266)	2.50 IN	30 FT-LBS
ALL ANCHORS, NUTS, AND WASHERS SHALL BE STAINLESS STEEL				



NOTE: BOND & GROUND PER CEC

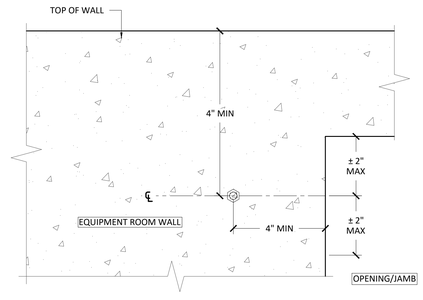
CO2 FEED SYSTEM ANCHORAGE
N.T.S. (9)

ANCHORAGE SCHEDULE				
EQUIPMENT	WEIGHT	ANCHOR	EMBEDMENT	INSTALL TORQUE
ACID TANK	1,750 LBS	⅜"Ø HILTI KB TZ2-SS (ICC ESR #4266)	2.50 IN	30 FT-LBS
ACID VAPOR RECOVERY	350 LBS	⅜"Ø HILTI KB TZ2-SS (ICC ESR #4266)	2.50 IN	30 FT-LBS
CHLORINE TANK	5,000 LBS	½"Ø HILTI KB TZ2-SS (ICC ESR #4266)	3.00 IN	40 FT-LBS
ALL ANCHORS, NUTS, AND WASHERS SHALL BE STAINLESS STEEL				



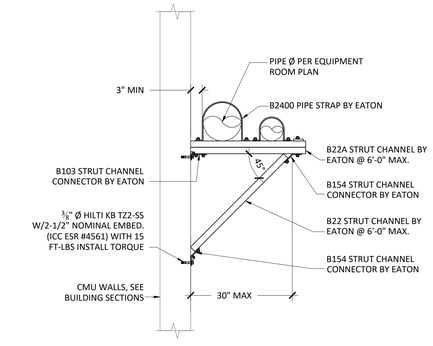
NOTE: BOND & GROUND PER CEC

CHEMICAL TANK ANCHORAGE
N.T.S. (6)



NOTES:
1. CONTRACTOR SHALL FOLLOW ALL RECOMMENDATIONS FROM MANUFACTURER.
2. ALL MOUNTING, SUPPORTS, ANCHORS, AND FASTENERS TO BE STAINLESS STEEL EATON B-LINE SERIES STRUT SYSTEM U.N.O.

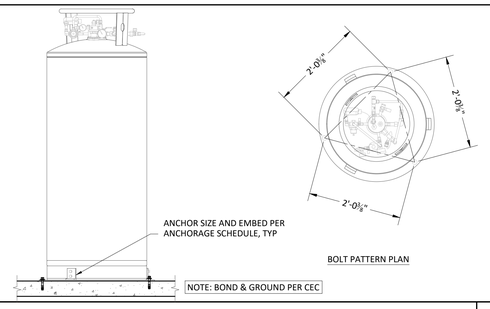
MINIMUM BOLT CLEARANCE ELEVATION
N.T.S. (2)



NOTE: CONTRACTOR SHALL FOLLOW ALL RECOMMENDATIONS FROM MANUFACTURER.

BRACE PIPE SUPPORT
N.T.S. (12)

ANCHORAGE SCHEDULE				
EQUIPMENT	WEIGHT	ANCHOR	EMBEDMENT	INSTALL TORQUE
BULK CO2 TANK	1,050 LBS	1/2"Ø HILTI KB TZ2-SS (ICC ESR #4266)	3.000 IN	40 FT-LBS
ALL ANCHORS, NUTS, AND WASHERS SHALL BE STAINLESS STEEL				

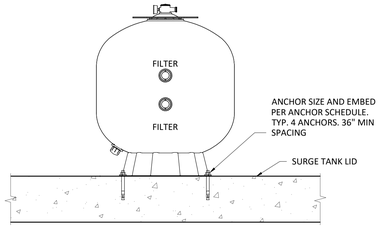


BOLT PATTERN PLAN

NOTE: BOND & GROUND PER CEC

BULK CO2 TANK ACNHORAGE
N.T.S. (8)

ANCHORAGE SCHEDULE				
EQUIPMENT	WEIGHT	ANCHOR	EMBEDMENT	INSTALL TORQUE
TEACHING POOL FILTER	1000 LBS	⅜" Ø HILTI KB-TZ2-SS (ICC ESR #4266)	2.50 IN	30 FT-LBS
SPLASHPAD FILTER	700 LBS	⅜" Ø HILTI KB-TZ2-SS (ICC ESR #4266)	2.50 IN	30 FT-LBS
ALL ANCHORS, NUTS, AND WASHERS SHALL BE STAINLESS STEEL				



NOTE: BOND & GROUND PER CEC

FILTER ANCHORAGE
N.T.S. (5)

MECHANICAL ANCHORS

1. FASTENERS SHALL BE STAINLESS STEEL FOR EXTERIOR USE OR WHEN EXPOSED TO WEATHER. PROVIDE GALVANIZED CARBON STEEL ANCHORS AT OTHER LOCATIONS, UNLESS OTHERWISE NOTED.
2. IF REINFORCEMENT IS ENCOUNTERED DURING DRILLING, ABANDON AND SHIFT THE HOLE LOCATION TO AVOID THE REINFORCEMENT. PROVIDE A MINIMUM OF 2 ANCHOR DIAMETERS OR 1 INCH, WHICHEVER IS LARGER, OF SOUND CONCRETE BETWEEN THE DOWEL AND THE ABANDONED HOLE. FILL THE ABANDONED HOLE WITH NON-SHRINK GROUT. IF THE ANCHOR OR DOWEL MAY NOT BE SHIFTED AS NOTED ABOVE, THE STRUCTURAL ENGINEER'S APPROVAL IS REQUIRED FOR NEW LOCATION.
3. LOCATE REINFORCEMENT AND CONFIRM FINAL ANCHOR LOCATIONS PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED WITH MECHANICAL ANCHORS.
4. ANCHORS SHALL BE PROOF-TESTED BY OWNER'S TESTING AND INSPECTION AGENCY.
5. TEST ANCHORS NO SOONER THAN 24 HOURS AFTER INSTALLATION.
6. APPLY TEST LOAD BY ANY METHOD THAT WILL EFFECTIVELY MEASURE THE TENSION ON THE ANCHOR SUCH AS DIRECT PULL WITH A HYDRAULIC JACK, TORQUE WRENCH, OR CALIBRATED SPRING_LOADING DEVICES, ETC.
7. REACTION LOADS FROM TEST FIXTURES MAY BE APPLIED CLOSE TO THE ANCHOR BEING TESTED, PROVIDED THE ANCHOR IS NOT RESTRAINED FROM WITHDRAWING BY A BASE PLATE OR OTHER FIXTURE. IF RESTRAINT IS FOUND, LOOSEN AND SHIM OR REMOVE THE FIXTURE PRIOR TO TESTING.
8. TEST 50% OF ANCHORS PER ONE OF THE FOLLOWING METHODS AND IN ACCORDANCE WITH THE VALUES SHOWN IN THE ANCHORAGE SCHEDULE:
   A. HYDRAULIC RAM METHOD: APPLY PROOF TEST LOAD WITHOUT REMOVING THE NUT. IF IT IS NOT POSSIBLE TO TEST WITH THE NUT INSTALLED, REPLACE THE NUT WITH A THREADED COUPLER TO THE SAME TORQUE MEASURED WITH A TORQUE WRENCH, AND THEN APPLY THE LOAD. ANCHOR IS ACCEPTABLE IF NO MOVEMENT IS OBSERVED AT THE TEST LOAD. MOVEMENT MAY BE DETERMINED WHEN THE WASHER UNDER THE NUT BECOMES LOOSE.
   B. TORQUE WRENCH METHOD: TEST ANCHORS TO THE TORQUE LOAD INDICATED IN THE TABLE WITHIN ONE-HALF TURN OF THE NUT.
14. IF ANY ANCHOR FAILS TESTING, REPLACE ANCHOR AND TEST ADDITIONAL ANCHORS OF THE SAME CATEGORY NOT PREVIOUSLY TESTED UNTIL TWENTY (20) CONSECUTIVE TESTS PASS, THEN RESUME INITIAL TESTING FREQUENCY.

ANCHORAGE NOTES
N.T.S. (1)

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SEAL

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JAMES P. McCLELLAND
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07/31/2026
STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
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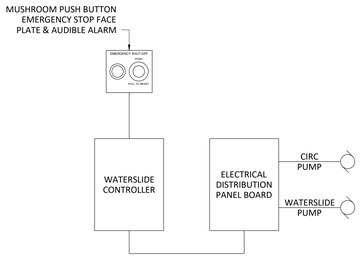


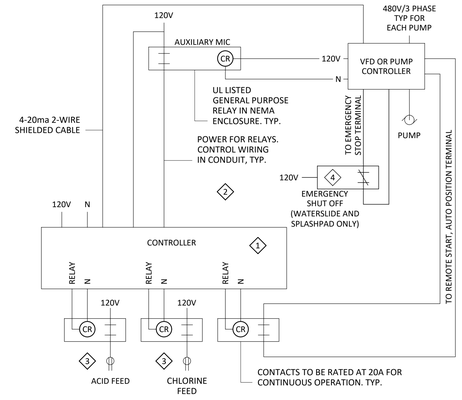
EMERGENCY STOP ELECTRICAL RELAYS DIAGRAM

N.T.S.

1

DETAIL NOTES:

1. PROVIDE 120 VAC PRIMARY 24 VAC SECONDARY TRANSFORMER IN NEMA ENCLOSURE WITH PRIMARY FUSE PROTECTION.
2. PROVIDE ONE CONTROL SYSTEM PER POOL.
3. THE CHEMICAL FEEDERS MAY DERIVE THEIR POWER DIRECTLY FROM THE CHEMICAL CONTROLLER.
4. MUSHROOM PUSH-BUTTON STATION FOR WATERSLIDE ONLY. ASCO #173A19 FOR FLUSH AND #173A20 FOR SURFACE MOUNTING. VERIFY MOUNTING APPLICATION WITH MANUFACTURER. FIELD VERIFY LOCATION. CIRCULATION PUMP SHALL MAINTAIN POWER OFF IN THE EVENT THE EMERGENCY SIGNAL IS OPEN.



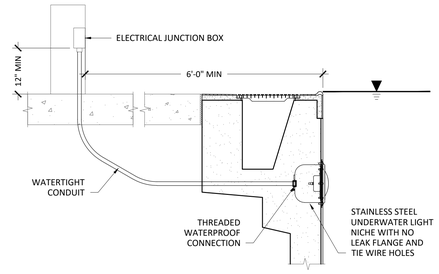
CONTROL WIRING DIAGRAM

N.T.S.

3

DETAIL NOTES:

1. UNDERWATER LIGHT JUNCTION BOXES TO BE HYDREL JB1710, HEAVY CAST BRONZE WITH SILICONE GASKETS AND INTEGRAL GROUNDING LUGS. RUN 1" DIAMETER SCHEDULE 40 PVC CONDUIT FROM LIGHT TO JUNCTION BOX AT DECK THEN TO BLANK FACE G.F.I. DEVICE WHEN SHOWN.
2. BOND NICHE TO JUNCTION BOX WITH #8 INSULATED COPPER WIRE WITHIN CONDUIT PER N.E.C. SECTION 680.
3. BOND NICHE TO REBAR WITH #8 CONTINUOUS SOLID COPPER WIRE PER N.E.C. SECTION 680.
4. LIGHT CORD LENGTH 150'-0" (MAXIMUM).
5. PROVIDE WIDE SWEEPS ON BENDS WITH A TOTAL OF NO MORE THAN 270 DEGREES. ALL BENDS SHALL HAVE A MINIMUM 36" RADIUS.
6. CORD WRAP TO FACILITATE BULB CHANGE OUT ON DECK. CORD MUST BE LONG ENOUGH SO LIGHT CAN BE PLACED ON DECK 2 FEET FROM EDGE.
7. U.L. APPROVED WET NICHE UNDERWATER LIGHT WITH 1" HUB CONNECTION AND DRAINAGE HOLES IN FACE OF RING OF LIGHT. INSTALLED IN ACCORDANCE WITH NEC ART. 680 - 23.
8. USE 3M SCOTCHCAST POTTING KIT 2135 IN THE FORMING SHELL AND JUNCTION BOX.
9. PROVIDE A STRAIN RELIEF AT JUNCTION BOX FOR UNDERWATER LIGHT FIXTURE CORD.



UNDERWATER LIGHT RIMMING

N.T.S.

2

ELECTRICAL SPECIFICATIONS:

A. CODES: ALL WORK SHALL COMPLY WITH THE LATEST EDITION OF THE CALIFORNIA ELECTRICAL CODE (CEC), ALL STATE AND LOCAL BUILDING CODES, ALL ADOPTED ORDINANCES, AND ALL REQUIREMENTS OF THE UTILITY COMPANY.

B. RACEWAY:
1. INDOOR:
   a. EMT (ELECTRICAL METALLIC TUBING)
   b. IMC (INTERMEDIATE METALLIC CONDUIT)
2. OUTDOOR:
   a. ABOVE GROUND: GRC (GALVANIZED RIGID CONDUIT)
   b. FLEXIBLE: LIQUIDTIGHT FLEXIBLE METAL CONDUIT SHALL BE USED IN ALL APPLICATIONS WHERE FLEXIBILITY IS REQUIRED. MAXIMUM 6 FEET IN LENGTH. FLEXIBLE METAL CONDUIT IS NOT ACCEPTABLE UNLESS IT IS A PART OF A PRE-WIRED ASSEMBLY. FLEXIBLE NONMETALLIC CONDUIT SHALL NOT BE USED.
   c. CONDUIT RUNS INSIDE BUILDING SHALL BE CONCEALED WHERE POSSIBLE. CONDUIT BELOW FLOOR SLAB SHALL BE INSTALLED WITHIN OR BELOW SLAB AND INSTALLED PRIOR TO POUR. RUNS TO BE AS STRAIGHT AS POSSIBLE FROM POINT OF OUTLET TO POINT OF OUTLET.
3. FURNISH 3/4" CONDUIT FOR ALL TEMPERATURE SENSORS FROM SENSOR TO APPROPRIATE MECHANICAL EQUIPMENT. PROVIDE 4" SQUARE JUNCTION BOX AT 48" AFF.
4. SUPPORTING DEVICES:
   a. CHANNEL AND ANGLE SUPPORT SYSTEMS, HANGERS, ANCHORS, PRIOR BRACKETS, FABRICATED ITEMS, AND FASTENERS SHALL PROVIDE SECURE SUPPORT FROM THE BUILDING STRUCTURE FOR ELECTRICAL COMPONENTS. ALL SUPPORTS SHALL CONFORM TO SEISMIC ZONE REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION. LIGHT FIXTURES SHALL BE SUPPORTED IN ACCORDANCE WITH CEC.
   b. MATERIAL: ALL STEEL, PROTECTED FROM CORROSION WITH ZINC COATING (GALVANIZED) OR TREATMENT OF EQUIVALENT CORROSION-RESISTANT ALTERNATIVE FINISH.
5. FIRESTOPPING: APPLY TO CABLE AND RACEWAY PENETRATIONS OF FIRE-RATED FLOOR AND WALL ASSEMBLIES. PERFORM FIRESTOPPING TO RE-ESTABLISH THE ORIGINAL FIRE-RESISTANCE RATING OF THE ASSEMBLY AT THE PENETRATION.
6. INSTALL RACEWAYS LEVEL AND SQUARE AND AT PROPER ELEVATIONS. PROVIDE ADEQUATE HEADROOM. USE TEMPORARY CLOSURES TO PREVENT FOREIGN MATTER FROM ENTERING RACEWAY. KEEP RACEWAYS AT LEAST 6" AWAY FROM PARALLEL RUNS OF FLUES AND HOT WATER PIPES. INSTALL HORIZONTAL RACEWAY RUNS ABOVE WATER PIPING.
7. MINIMUM CONDUIT SIZE: 3/4" BELOW GRADE, 3/4" ABOVE GRADE

C. WIRE (50 TO 600 VOLTS): ALL WIRE SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS:
1. INSULATING RATING:
   a. VOLTAGE: 600 VOLTS
   b. TEMPERATURE: 90° (THHN OR THWN)
2. STRANDED COPPER WITH THE FOLLOWING EXCEPTION(S): SOLID WIRE (SIZES #12 AND #10) MAY BE USED FOR OUTLETS AND LIGHTING. #8 SOLID BARE COPPER FOR GROUNDING AND BONDING OF NON-ELECTRIFIED METAL COMPONENTS ONLY.
3. MINIMUM SIZE:
   a. POWER WIRING - #12 AWG
   b. CONTROL WIRING - #14 AWG
4. WIRING INSTALLATION
   a. ALL FEEDERS, BRANCH CIRCUITS AND VOLTAGE DROP REQUIREMENTS SHALL CONFORM TO CEC 210 AND 220.
   b. ALL WIRING SHALL BE INSTALLED IN AN APPROVED RACEWAY SYSTEM IN ACCORDANCE WITH CEC AND LOCAL ORDINANCES.

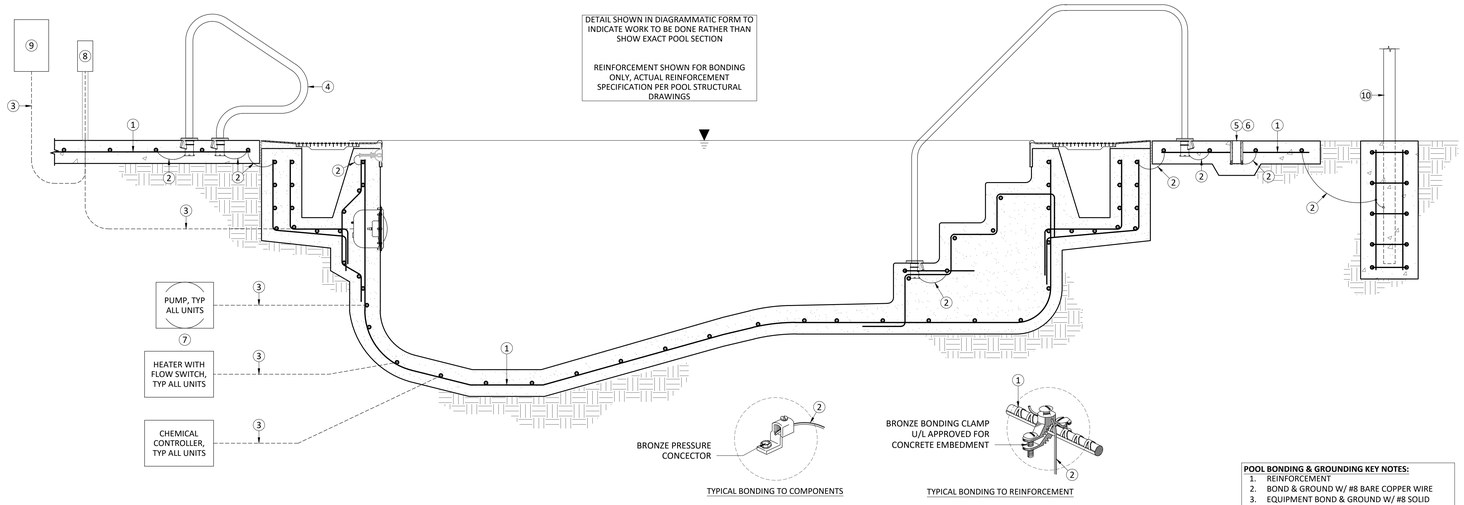
D. ENCLOSURES:
1. FOR STARTERS, DISCONNECTS AND PANELBOARDS:
   a. INDOOR: NEMA 4X
   b. OUTDOOR: NEMA 3R
2. CONTROL PANELS (FULL PIANO HINGED):
   a. INDOOR: NEMA 4X
   b. OUTDOOR: NEMA 3R
3. CONTROL STATIONS:
   a. INDOOR AND OUTDOOR: NEMA 4 OILTIGHT
4. REFER TO CEC IN AREAS WHERE CERTAIN CONDITIONS MUST BE MET.
5. MOUNTING HEIGHTS:
   a. MOUNT TOP OF PANELS AND SWITCHES 66" AFF.
   b. MOUNT TOP OF RECEPTACLE BOXES 15" AFF UON
   c. OUTLET MOUNTING HEIGHTS FOR RECEPTACLES, SWITCHES, SYSTEM INITIATING DEVICES, AND INDICATING DEVICES SHALL COMPLY WITH REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA)

E. GROUNDING:
1. ALL GROUNDING SHALL BE INSTALLED PER THE CEC AS SHOWN IN THE CONTRACT DRAWINGS AND SPECIFICATIONS.
2. ALL METALLIC STRUCTURES, METALLIC ENCLOSURES, AND ELECTRICAL EQUIPMENT SHALL BE PERMANENTLY, AND EFFECTIVELY GROUNDED AND GROUND CONNECTIONS SHALL BE MADE TO THE BUILDING GROUND. SIZE GROUND WIRE PER CEC 250.

F. GROUNDING/BONDING VERIFICATION
1. BONDING SYSTEM INSPECTION
   a. CONTRACTOR TO PERFORM A REVIEW OF THE POOL BONDING SYSTEM AND NOTE ALL EQUIPMENT THAT NEEDS TO BE TESTED TO ENSURE THAT IT'S PROPERLY BONDED.
2. VERIFY THAT ALL METAL PARTS ARE BONDED TO THE SERVICE NEUTRAL.
   a. CONTRACTOR TO MEASURE THE RESISTANCE BETWEEN THE METER SOCKET ENCLOSURE, SERVICE EQUIPMENT, OR GROUNDING ELECTRODE CONDUCTOR TO ALL METAL PARTS OF THE ELECTRICAL SYSTEM AND POOL THAT ARE REQUIRED TO BE BONDED. THE RESISTANCE THAT IS MEASURED SHOULD BE NO MORE THAN ONE OHM (AFTER THE METER HAS BEEN RECALIBRATED TO ACCOUNT FOR THE RESISTANCE OF WIRE USED FOR THE MEASUREMENTS). IF THE RESISTANCE FROM THE SERVICE NEUTRAL TO ANY METAL PART IS NOT LESS THAN ONE OHM, INVESTIGATE WHY AND CORRECT.
3. VERIFY THAT A POOL SHELL IS BONDED TO THE SERVICE NEUTRAL.
   a. CONTRACTOR TO DETERMINE THE NEUTRAL-TO-EARTH VOLTAGE BY PLACING ONE LEAD OF THE VOLT METER TO THE METER SOCKET ENCLOSURE, SERVICE EQUIPMENT, OR GROUNDING ELECTRODE CONDUCTOR, AND THE OTHER LEAD TO A POINT IN THE EARTH THAT IS AT LEAST 15 FT FROM ANY METAL PARTS IN THE EARTH. THIS VOLTAGE READING SHOULD BE LESS THAN 3 VOLTS. THEN MEASURE THE VOLTAGE BETWEEN THE METER SOCKET ENCLOSURE, SERVICE EQUIPMENT, OR GROUNDING ELECTRODE CONDUCTOR TO THE WATER IN THE POOL AT FOUR DIFFERENT LOCATIONS. IF THE VOLTAGE IS ZERO AT ALL LOCATIONS, THEN THE POOL SHELL BONDING IS ACCEPTABLE. IF VOLT READING IS NOT ZERO, CORRECT.
4. VERIFY THAT THE PERIMETER DECKING AROUND THE POOL IS BONDED TO THE SERVICE NEUTRAL.
   a. CONTRACTOR TO DETERMINE THE NEUTRAL-TO-EARTH VOLTAGE BY PLACING ONE LEAD OF THE VOLT METER TO THE METER SOCKET ENCLOSURE, SERVICE EQUIPMENT, OR GROUNDING ELECTRODE CONDUCTOR, AND THE OTHER LEAD TO A POINT IN THE EARTH THAT IS AT LEAST 15 FT FROM ANY METAL PARTS IN THE EARTH. THE VOLTAGE READING SHOULD BE LESS THAN 3 VOLTS. MEASURE THE VOLTAGE BETWEEN THE METER SOCKET ENCLOSURE, SERVICE EQUIPMENT, OR GROUNDING ELECTRODE CONDUCTOR TO THE PERIMETER DECKING TO AT LEAST SIX POINTS (6, 12, 18, 24, 30, AND 36 INCHES FROM THE POOL WATER) AT TWO LOCATIONS AROUND THE POOL. IF VOLT READING IS NOT ZERO, CORRECT.

G. WIRING DEVICES AND COMPONENTS:
1. STARTERS AND CONTACTORS: TO BE NEMA OR IEC RATED (NO GENERAL PURPOSE).
2. ALL PANELS SHALL BE OF COPPER BUS CONSTRUCTION INCLUDING COPPER BUS AND NEUTRAL BARS.
3. ALL RECEPTACLES AND SWITCHES SHALL BE COMMERCIAL GRADE WITH 20A RATING.
4. ALL RECEPTACLE AND SWITCH COVERS SHALL BE WHITE AND STANDARD COMMERCIAL GRADE.
5. EQUIPMENT STARTERS AND RELATED CONTROL AND WIRING SHALL BE SUPPLIED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. OVERLOAD HEATERS SHALL BE INSTALLED IN ACCORDANCE WITH NAMEPLATE DATA ON EQUIPMENT. STARTERS SHALL BE INSTALLED AS DIRECTED BY THE POOL CONTRACTOR.
6. ALL DISCONNECT SWITCHES SHALL BE HEAVY-DUTY WITH DUAL ELEMENT TIME DELAY FUSES AS NOTED ON THE ONE-LINE DIAGRAM. FUSE SIZE TO BE AS SHOWN OR AS REQUIRED TO MATCH LOAD CONDITIONS.

H. MISCELLANEOUS AND GENERAL
1. NO SPLICES SHALL BE ALLOWED UNLESS EXEMPTED PER CEC. CONFIRM WITH ENGINEER.
2. THE ELECTRICAL DRAWINGS ARE NOT TO BE USED FOR ROOM DIMENSIONS AND EQUIPMENT PLACEMENT. REFERENCE THE APPROPRIATE ARCHITECTURAL, STRUCTURAL OR MECHANICAL PLANS, DRAWINGS OR SCHEMATIC. VERIFY ALL LOCATIONS WITH ENGINEER BEFORE INSTALLING CONDUIT, EQUIPMENT, ETC.
3. IT IS THE RESPONSIBILITY OF THE POOL CONSTRUCTION AND ELECTRICAL CONTRACTOR TO FAMILIARIZE HIMSELF WITH THE INSTALLATION AND TO ENSURE IT IS PROPER FOR ANY GIVEN SITUATION WHICH MAY VARY FROM THE DETAILS OR THE DRAWINGS. CONTRACTORS ARE ADVISED TO COMPLETELY SURVEY THE WORK AREA TO IDENTIFY ANY UPCOMING PROBLEMS.
4. COORDINATE MOUNTING HEIGHT OF ALL EXTERIOR LIGHTING FIXTURES WITH ARCHITECTURAL ELEVATION DRAWINGS.
5. ELECTRICAL CONTRACTOR SHALL ARRANGE FOR ALL INSPECTIONS WHEN THEY BECOME DUE AND SHALL NOT COVER ANY WORK UNTIL APPROVED BY THE INSPECTION AUTHORITY.
6. ANY AND ALL FEES ASSOCIATED WITH THE ELECTRICAL WORK INCLUDING CONSTRUCTION AND INSPECTIONS SHALL BE PAID FOR BY THE ELECTRICAL CONTRACTOR IN ORDER TO DELIVER AND COMPLETE THE FINISHED BUILDING, READY FOR OCCUPANCY AND 100% USAGE.
7. ANY COSTS DUE TO THE LACK OF COOPERATION AMONG TRADES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
8. REFER TO THE LATEST ARCHITECTURAL DRAWINGS FOR EXACT WALL LOCATIONS, DIMENSIONS, AND CONFIGURATIONS: DOOR SWINGS FOR SWITCH LOCATION, REFLECTED CEILING PLANS FOR LIGHT FIXTURE LOCATIONS.
9. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL ELECTRICAL EQUIPMENT LOADS PRIOR TO ROUGH-IN AND SHALL NOTIFY THE ENGINEER IF ANY DISCREPANCIES EXIST.
10. ELECTRICAL CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY ALTERATIONS REQUIRED BY THE OWNER, ARCHITECT, OR FIELD CONDITIONS.
11. ALL EQUIPMENT SHALL BE NEW AND SHALL HAVE APPROPRIATE UNDERWRITERS LABORATORIES (UL) LABEL AND SHALL CONFORM TO THE LATEST INDUSTRY STANDARDS.
12. ELECTRICAL CONTRACTOR SHALL MAINTAIN ALL WORKING CLEARANCES FOR ALL ELECTRICAL EQUIPMENT PER CEC REQUIREMENTS.
13. AT THE COMPLETION OF WORK, THE ELECTRICAL CONTRACTOR SHALL PROVIDE COMPLETE, ACCURATE, TYPED PANELBOARD DIRECTORIES, AND AS-BUILT DRAWINGS.
14. ANY DEVIATION FROM PLANS WITHOUT PRIOR APPROVAL OF THE ARCHITECT/ENGINEER SHALL BE CAUSE FOR REJECTION OF MATERIALS AND/OR METHODS AND ANY COSTS INCURRED TO CORRECT SUCH DEVIATION TO THE SATISFACTION OF THE ARCHITECT/ENGINEER SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
15. COST TO INSTALL TEMPORARY POWER AND LIGHTING PER OSHA STANDARDS AND TEMPORARY POWER TO CONSTRUCTION TRAILER SHALL BE INCLUDED IN ELECTRICAL CONTRACTOR'S BID.
16. ALL DIMENSIONS ARE FROM FINISHED FLOOR OR FACE OF STUD TO CENTER OF DEVICE UNLESS OTHERWISE NOTED.
17. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATION OF THERMOSTATS AND OTHER SPECIAL EQUIPMENT OR CONTROLS. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ALL CONDUITS, JUNCTION BOXES, POWER/CONTROL WIRING, DISCONNECT SWITCHES, AND THERMOSTAT JUNCTION BOXES.



POOL BONDING & GROUNDING GENERAL NOTES:

A. POOL CONTRACTOR SHALL BE RESPONSIBLE FOR BONDING AND GROUNDING ALL EQUIPMENT AND METAL ITEMS IN OR NEAR THE POOL, INCLUDING: LIGHTS, NICHES, RAILINGS, ADA LIFT ANCHORS, REINFORCING STEEL, ETC. WITH A GROUND WIRE AS INDICATED. ALL BONDING SHALL BE PERFORMED IN ACCORDANCE WITH CEC.
B. POOL CONTRACTOR SHALL PROVIDE CONDUIT AND SUFFICIENT LENGTH OF CORD FROM EACH UNDERWATER LIGHT TO ITS J-BOX AND TO ALLOW FOR LIGHT TO REACH DECK FOR RE-LAMPING.
C. POOL CONTRACTOR SHALL PROVIDE AND INSTALL (PER 2022 CEC) AN EMERGENCY SHUT-OFF SWITCH.
D. ELECTRICAL WIRING OR CONDUCTORS SHALL NOT BE ROUTED UNDERGROUND BENEATH THE POOL SHELL.
E. NO OUTLETS SHALL BE LOCATED WITHIN 10 FT OF POOL. ALL OUTLETS 10 FT TO 20 FT FROM POOL TO BE GFCI PROTECTED. GFCI PROTECTION MUST BE PROVIDED PER CEC AND IN COMPLIANCE WITH LOCAL CODES FOR ALL LIGHTING CIRCUITS, MOTORS, EQUIPMENT, OUTLETS, AND ELECTRICAL CIRCUITS IN THE POOL AREA.
F. ELECTRICAL CONTRACTOR SHALL PROVIDE ELECTRICAL SERVICE AND CONNECTIONS TO ALL PUMP MOTORS, CIRCUIT BREAKERS, DISCONNECTS, PANELS, RELAYS, CONTROLLERS, HEATERS, OR OTHER POOL EQUIPMENT IN EQUIPMENT ROOM.
G. PROVIDE FLOW SWITCH WITH HEATER(S) TO INTERLOCK THE CIRCULATION PUMP WITH THE CHEMICAL FEEDERS AND WITH THE HEATER.
H. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT FROM J-BOX TO LIGHT NICHE AND PROVIDE JUNCTION BOX AND HOOK UP.
I. ELECTRICAL CONTRACTOR SHALL PROVIDE LIGHT SWITCHES FOR UNDERWATER LIGHTS IN A LOCATION WHERE THEY ARE NOT ACCESSIBLE BY BATHERS. (SWITCH LOCATION DETERMINED BY OWNER / ARCHITECT).

POOL BONDING & GROUNDING KEY NOTES:

1. REINFORCEMENT
2. BOND & GROUND W/ #8 BARE COPPER WIRE
3. EQUIPMENT BOND & GROUND W/ #8 SOLID COPPER CONDUCTOR INSULATED
4. GRAB RAILS, DIVING STANDS, AND OTHER SIMILAR ITEMS WHERE OCCURS
5. ADA LIFT ANCHOR, POST STANCHION, & PLATFORM ANCHORS
6. BOND & GROUND ALL METAL COMPONENTS (INCLUDING DECK DRAINS) WITHIN 5' OF POOL W/ #8 BARE COPPER WIRE, TYP
7. ANY METAL PARTS OF ELECTRICAL EQUIPMENT (PUMPS, HEATERS, CHEMICAL CONTROLLERS, AND EQUIPMENT ANCHORS) IN CONTACT WITH POOL WATER CIRCULATION SHALL BE BOND & GROUNDED TO POOL SHELL
8. GROUND BUS IN POOL J-BOX, TYP ALL UNITS
9. GROUND BUSS IN POOL PANEL
10. FENCE POST

TYPICAL POOL BONDING & GROUNDING

1

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SEAL

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JAMES P. McCLELLAND
C-21797
07/31/2027
STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

SWIMMING POOL ELECTRICAL NOTES

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: RD
PROJECT MANAGER: BR
JOB NUMBER: 791

SHEET NUMBER
SP5.0-1

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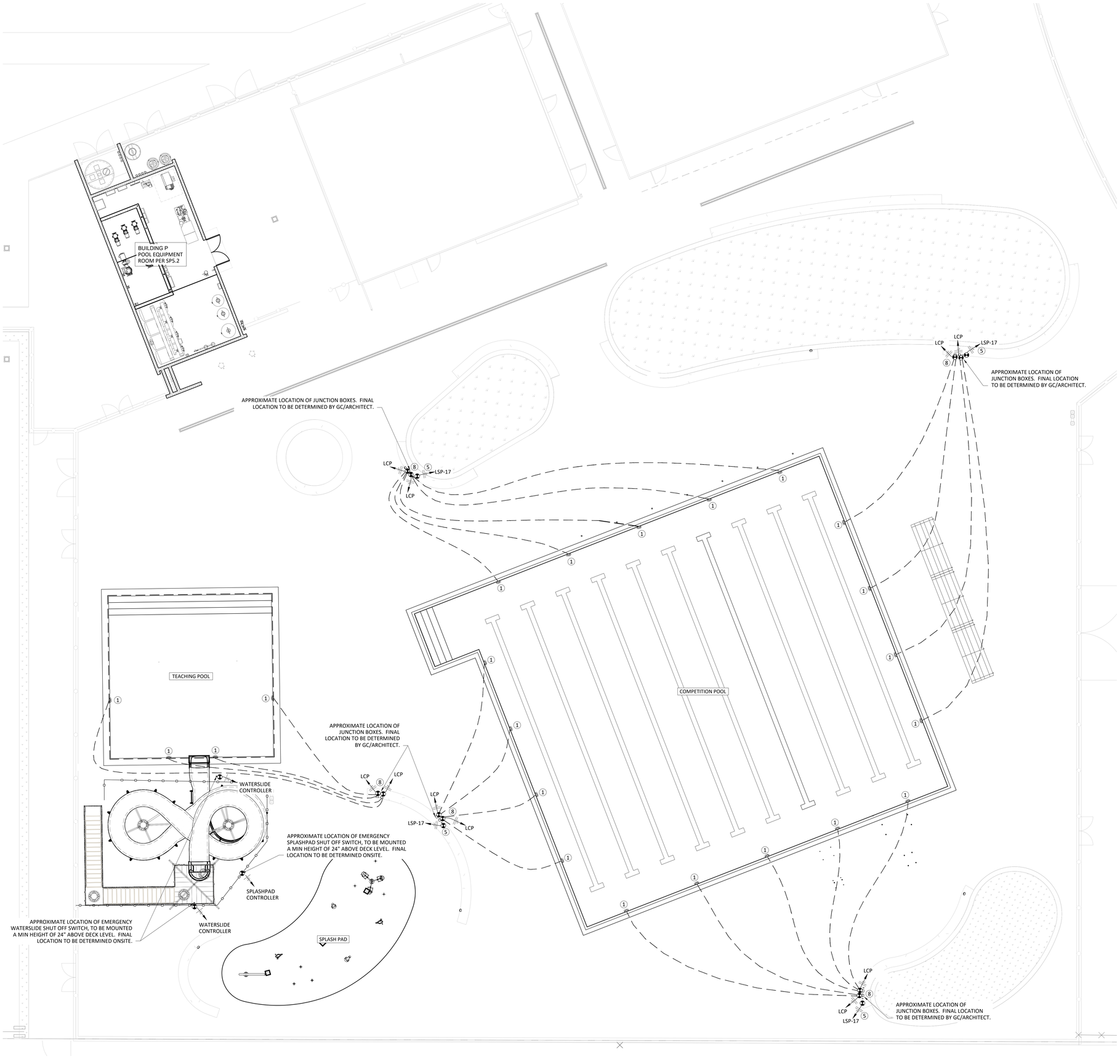

POOL DECK ELECTRICAL NOTES:

GENERAL

1. ELECTRICAL WIRING OR CONDUCTORS SHALL NOT BE ROUTED UNDERGROUND BENEATH THE POOL SHELL.
2. ELECTRICAL INSPECTOR SHALL APPROVE BONDING OF REINFORCING POOL FITTINGS AND CONDUIT PRIOR TO THE INSTALLATION OF REINFORCING STEEL FOR POURING OF CONCRETE OR GUNITE.
3. BONDING OF ALL POOL EQUIPMENT AND CONSTRUCTION SHALL BE INSTALLED PER REQUIREMENTS OF CEC 680.6 AND 680.26.
4. ALL METAL PARTS IN THE SWIMMING POOL AREAS AND EQUIPMENT ROOM SHALL BE GROUND BONDED WITH #8 SOLID BARE COPPER INCLUDING BUT NOT LIMITED TO ALL PUMPS, HEATERS, POOL AND LIGHTS, LADDERS, HAND RAILS, AND REBAR PER REQUIREMENTS OF CEC 680.6 AND 680.26.
5. NO OUTLETS SHALL BE LOCATED WITHIN 10 FT OF POOL. ALL OUTLETS 10 FT TO 20 FT FROM POOL TO BE GFCI PROTECTED. GFCI PROTECTION MUST BE PROVIDED PER CEC AND IN COMPLIANCE WITH LOCAL CODES FOR ALL LIGHTING CIRCUITS, MOTORS, EQUIPMENT, OUTLETS, AND ELECTRICAL CIRCUITS IN THE POOL AREA.

POOL LIGHTING

6. POOL LIGHT FIXTURES SHALL BE INSTALLED PER THE REQUIREMENTS OF CEC 680.23 FOR UNDERWATER LIGHTING FIXTURES.
7. PROVIDE UNDERWATER LIGHT FIXTURE WITH THREADED ENTRIES PER POOL EQUIPMENT DRAWINGS. BRANCH TO BE 2#12 THWN-2 CU AND #8G CU INSULATED IN 1" C. ALL CONDUIT ELECTRICAL CONNECTIONS TO LIGHT FIXTURES SHALL BE WATERTIGHT. CONDUIT SHALL BE NON-METALLIC PVC OR SEAL-TYPE WITH THREADED ENDS. PROVIDE TRANSFORMER FOR EACH SET OF THREE LIGHTS PER MANUFACTURER'S WRITTEN INSTRUCTIONS. MAXIUM THREE 90-DEGREE ELBOWS FOR EACH JUNCTION BOX TO UL CONDUIT.
8. MAXIMUM ONE TRANSFORMER PER JUNCTION BOX. PROVIDE GROUNDED BUS IN EACH JUNCTION BOX. MINIMUM 12" AFF AND 5'-0" FROM POOL. ROUTE TO GROUND BUS BAR JUNCTION BOX. PROVIDE GROUND BUS BAR IN NEMA-4X 12" x 12" x 12" ENCLOSURE. PROVIDE #8 INSULATED CU CONNECTION TO PANEL. BOXES NOT TO SCALE ON DRAWING. LOCATIONS ARE APPROXIMATE.
9. POOL CONTRACTOR SHALL PROVIDE SUFFICIENT LENGTH OF CORD FROM EACH UNDERWATER LIGHT TO ITS J-BOX TO ALLOW FOR LIGHT TO REACH DECK FOR RE-LAMPING.
10. ROUTE TO POOL LIGHTING CONTROLLER SWITCH AND CONNECT AS REQUIRED FOR BYPASS LIGHTING CONTROL. PROVIDE ENGRAVED SWITCH PLATE "UNDERWATER POOL LIGHTING BYPASS". PROVIDE LIGHTING CONTROL PANEL (LCP) IN EQUIPMENT ROOM, EATON FIFTHLIGHT TECHNOLOGY RELAY PANEL FLT RPA 24R AND LOW VOLTAGE WALL SWITCHES WITH INDICATOR LIGHTS FOR MANUAL ON/OFF CONTROL OF THE UNDERWATER LIGHTS FOR EACH BODY OF WATER OR APPROVED EQUAL/ACLUITY CONTROL BLUE BOX GR1416 LT ENC SM NE4 ENCLOSURE AND GR1416 LT INT 16NCL DTC DV D14 INTERIOR OR APPROVED EQUAL. PROVIDE INDIVIDUAL CONTROL SWITCHES FOR EACH POOL/SPA AS APPLICABLE.

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CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

SWIMMING POOL ELECTRICAL SITE PLAN

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: RD
PROJECT MANAGER: BR
JOB NUMBER: 791

SHEET NUMBER
SP5.4-1

SWIMMING POOL ELELCTRICAL SITE PLAN
1/8" = 1'-0"
1

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PANEL 'LSP'

PANEL MAKE/MODEL: Eaton / Pow-R-Line 3R
MAIN CIRCUIT BREAKER: 150A
BUSSING : 200A
VOLTAGE : 208/120V, 3PH, 4W
PANEL INTERRUPTING RATING : 10K

ENCLOSURE : NEMA 3R
MOUNTING : SURFACE
CB TYPE : BOLT-ON
PROVIDE : NEUTRAL BUS
GROUND BUS

0 RECPT		5 HEAT
1 LTG		6 A/C
2 EQUIP		7 KITCH
3 MTR		8 ELEV
4 COMP		9 125%

CKT	AMPS	POLE	CIRCUIT DESCRIPTION	LOAD	TYPE	PH	TYPE	LOAD	CIRCUIT DESCRIPTION	AMPS	POLE	CKT
1	**20**	**1**	**CO2 STORAGE**	**1800**	**2**	A	**2**	**600**	**COMP. POOL HEATER**	**20**	**1**	2
3	**20**	**1**	**SUMP PUMP (1/3 HP)**	**1990**	**3**	B	**2**	**600**	**TEACHING POOL HEATER**	**20**	**1**	4
5	**20**	**1**	**FILTER BOOST PUMP (1/2 HP)**	**1990**	**3**	C	**2**	**1800**	**COMP. CHEMICAL CONTROLLER**	**20**	**1**	6
7	**20**	**1**	**FILTER CONTROLLER**	**600**	**2**	A	**2**	**1800**	**TEACHING CHEMICAL CONTROLLER**	**20**	**1**	8
9	**20**	**1**	**WATERSLIDE CONTROLLER**	**1200**	**2**	B	**2**	**1800**	**SPLASHPAD CHEMICAL CONTROLLER**	**20**	**1**	10
11	**20**	**1**	**SPLASHPAD CONTROLLER**	**1200**	**2**	C	**2**	**480**	**COMP. ACID PUMP (2)**	**20**	**1**	12
13	**30**	**1**	**SPLASHPAD UV**	**750**	**2**	A	**2**	**240**	**TEACHING ACID PUMP**	**20**	**1**	14
15				**750**		B	**2**	**240**	**SPLASHPAD ACID PUMP**	**20**	**1**	16
17	**20**	**1**	**PEDESTAL RECEPTACLES**	**720**	0	C	**2**	**480**	**COMP. CHLORINE PUMP (2)**	**20**	**1**	18
19	**20**	**1**	**POOL LIGHTING CONTROL PANEL**	**1210**	1	A	**2**	**240**	**TEACHING CHLORINE PUMP**	**20**	**1**	20
21	**20**	**1**	**EQUIPMENT ROOM RECEPTACLES**	**720**	**0**	B	**2**	**240**	**SPLASHPAD CHLORINE PUMP**	**20**	**1**	22
23	**20**	**1**	**EQUIPMENT ROOM LIGHTING**	**384**	**1**	C	**2**	**2984**	**COMP. CO2 PUMP (3/4 HP)**	**20**	**1**	24
25	**20**	**1**	**TEACHING POOL HEATER AIR INTAKE**	**1000**	**0**	A	**2**	**600**	**COMP. CO2 CONTROLLER**	**20**	**1**	26
27	**20**	**1**	**INX FIRE ALARM CONTROL PANEL**	**1080**	**2**	B	**2**	**240**	**TEACHING CO2 FEEDER**	**20**	**1**	28
29	**20**	**1**	**IDF RECEPTACLE**	**800**	**0**	C	**2**	**240**	**SPLASHPAD CO2 FEEDER**	**20**	**1**	30
31	**20**	**1**	**SECURITY PANEL RECEPTACLE**	**800**	**0**	A	**2**	**75**	**WATER HEATER 2**	**15**	**1**	32
33	**15**	**1**	**WATER HEATER 1**	**75**	**2**	B	**2**	**184**	**EXAUGHST FAN**	**20**	**1**	34
35	**20**	**1**	**EXTERIOR RECEPTACLES**	**540**	**0**	C	**1**	**1000**	**EXTERIOR BLDG/SITE/PATH LTG CNTRL PNL**	**20**	**1**	36
37			Bussed Space			A			Bussed Space			38
39			Bussed Space			B			Bussed Space			40
41			Bussed Space			C			Bussed Space			42

	ADDED VA	FEED THRU	METERED LOADx1.25	TOTAL CONN	TOTAL DEMAND VA	TOTAL DEMAND AMPS
PHASE A	9,715	0	0	9,715	9,920	83
PHASE B	9,119	0	0	9,119	9,311	78
PHASE C	12,618	0	0	12,618	12,884	107
TOTAL	31,451	0	0	31,451	32,116	89

NOTES :

1. All of the following to be provided with GFCI protection:
   a. Outdoor luminaries installed within 5-feet horizontally from the inside wall of pool. Such lights must be installed at least 5-feet above the pool water surface level.
   b. Outdoor luminaries installed in the area extending between 5- and 10-feet from the inside wall of pool.
   c. All underwater luminaries.
2. Conductors on the load side of a ground-fault circuit interrupter are permitted to occupy raceways, boxes, or enclosures containing only conductors protected by ground-fault circuit interrupters.
3. Grounding conductors are permitted in the same raceway, box or enclosure.
4. Conductors that supply pool equipment, such as pool pump motors that do not have GFCI protection, shall not be installed in the same conduits and junction and pull boxes with conductors having GFCI protection that supply underwater luminaires.
5. Electrical service to panel by others. Contractor to confirm and coordinate the electrical service voltage/phase serving the pool equipment room panel(s) and equipment before ordering any new panel(s) or pool electrical equipment. Consult engineer if there is a discrepancy between the electrical service and pool electrical panel(s) and pool equipment voltage/phase.

NOTE:
REFER TO E202-1, 1/E401-1 FOR CONNECTIONS TO LSP 27, 29, AND 31-36.
REFER TO 7/SP4.6-1 FOR MOUNTING.

POOL ELECTRICAL PANEL "LSP"
N.T.S.

3

PANEL 'MCP'

PANEL MAKE/MODEL: Eaton / Pow-R-Line 3R
MAIN CIRCUIT BREAKER: 225A
BUSSING : 225A
VOLTAGE : 480/277V, 3PH, 4W
PANEL INTERRUPTING RATING : 35K

ENCLOSURE : NEMA 3R
MOUNTING : SURFACE
CB TYPE : BOLT-ON
PROVIDE : NEUTRAL BUS
GROUND BUS

0 RECPT		5 HEAT
1 LTG		6 A/C
2 EQUIP		7 KITCH
3 MTR		8 ELEV
4 COMP		9 125%

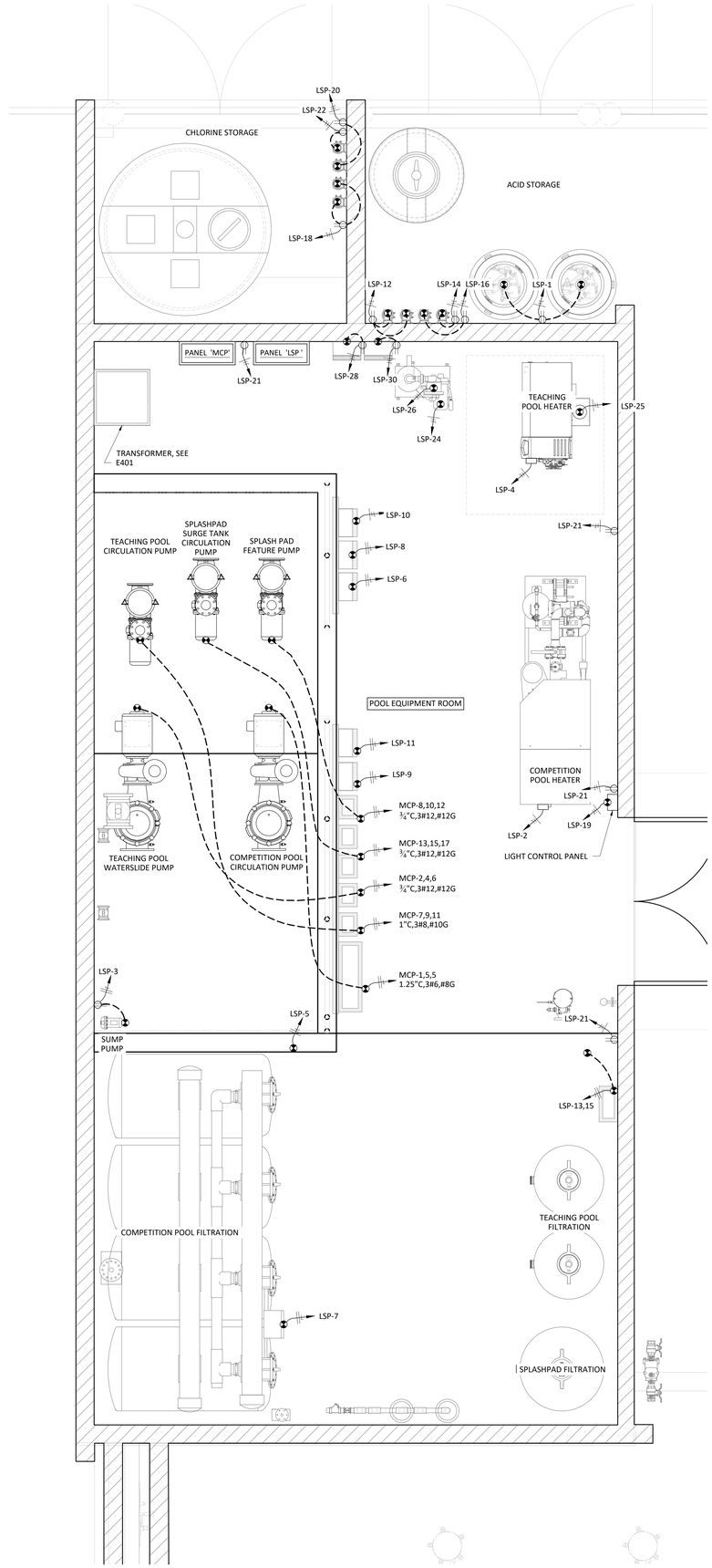
CKT	AMPS	POLE	CIRCUIT DESCRIPTION	LOAD	TYPE	PH	TYPE	LOAD	CIRCUIT DESCRIPTION	AMPS	POLE	CKT
1				**8650**	**3**	A	**3**	**6920**				2
3	**50**	**3**	**COMP. POOL RECIRC. PUMP (20 HP W/VFD)**	**8650**	**3**	B	**3**	**6920**	**WATERSLIDE PUMP (15 HP W/VFD)**	**40**	**3**	4
5				**8650**	**3**	C	**3**	**6920**				6
7				**1857**	**3**	A	**3**	**1857**				8
9	**20**	**3**	**TEACHING POOL RECIRC. PUMP (5 HP W/VFD)**	**1857**	**3**	B	**3**	**1857**	**SPLASHPADFEATURE PUMP (5 HP W/VFD)**	**20**	**3**	10
11				**1857**	**3**	C	**3**	**1857**				12
13				**1857**	**3**	A	**1**	**209**	**CONCRETE BENCH LIGHTING**	**20**	**1**	14
15	**20**	**3**	**SPLASHPAD RECIRC. PUMP (5 HP W/VFD)**	**1857**	**3**	B	**1**	**57**	**CONCRETE BENCH LIGHTING**	**20**	**1**	16
17				**1857**	**3**	C	**1**	**89**	**CONCRETE BENCH LIGHTING**	**20**	**1**	18
19	**20**	**1**	**EMERGENCY PATHWAY LIGHTING**	**280**	**1**	A	**1**	**3536**	**POOL COMPETITION LIGHTING**	**20**	**1**	20
21	**20**	**1**	**(EVENING LIGHT) PATHWAY LIGHTING**	**360**	**1**	B	**1**	**3536**	**POOL COMPETITION LIGHTING**	**20**	**1**	22
23	**20**	**1**	**(NIGHT LIGHT) PATHWAY LIGHTING**	**430**	**1**	C	**1**	**3536**	**POOL COMPETITION LIGHTING**	**20**	**1**	24
25	**20**	**1**	**CONCRETE BENCH LIGHTING**	**150**	**1**	B	**2**	**6133**				26
27	**20**	**1**	**POOL EQUIPMENT ROOM EXTERIOR LIGHTING**	**230**	**1**	C	**2**	**6133**	**TRANSFORMER (SEE E401)**	**70**	**3**	28
29	**20**	**1**	**EMERGENCY LIGHTING INVERTER**	**1000**	**2**	B	**2**	**6133**				30

	ADDED VA	FEED THRU	METERED LOADx1.25	TOTAL CONN	TOTAL DEMAND VA	TOTAL DEMAND AMPS
PHASE A	25,166	0	0	25,166	25,986	94
PHASE B	38,510	0	0	38,510	39,764	144
PHASE C	31,559	0	0	31,559	32,587	118
TOTAL	95,234	0	0	95,234	98,337	118

NOTE:
REFER TO E202-1, 1/E401-1 AND 2/E401-1 FOR CONNECTIONS TO MCP 19-30.
REFER TO 7/SP4.6-1 FOR MOUNTING.

POOL PUMP ELECTRICAL PANEL "MCP"
N.T.S.

2



EQUIPMENT ROOM ELECTRICAL PLAN
1/2" = 1'-0"

1

EQUIPMENT ROOM ELECTRICAL NOTES:

GENERAL:

A. ELECTRICAL SERVICE TO PANEL BY OTHERS. CONTRACTOR TO CONFIRM AND COORDINATE THE ELECTRICAL SERVICE VOLTAGE/PHASE SERVING THE POOL EQUIPMENT ROOM PANEL(S) AND EQUIPMENT BEFORE ORDERING ANY NEW PANEL(S) OR POOL ELECTRICAL EQUIPMENT. CONSULT ENGINEER IF THERE IS A DISCREPANCY BETWEEN THE ELECTRICAL SERVICE AND POOL ELECTRICAL PANEL(S) AND POOL EQUIPMENT VOLTAGE/PHASE.
   a. FOR RENOVATION PROJECTS UTILIZING AND/OR MODIFYING EXISTING PANELBOARD CIRCUITS, PRIOR TO ANY DEMOLITION OR NEW WORK, CONTRACTOR TO CONFIRM EXISTING PANELBOARD INDEX CIRCUITING UTILIZING ELECTRIC CIRCUIT TRACERS AND REPORT RESULTS TO ENGINEER FOR COMPARISON TO EXISTING CONDITIONS SHOWN ON THESE DRAWINGS.
   b. PANELBOARD IS TO BE AN EATON MODEL POW-R-LINE 4X PANELBOARD OR APPROVED EQUAL. COORDINATE PANEL REQUIREMENT WITH ANY BUILDING ELECTRICAL ENGINEERS/CONTRACTORS AS APPLICABLE.
B. ALL POWER CONDUCTORS TO BE 3/4"C, 2#12 OR 3#12 (1-OR 3-PHASE), #12G UNLESS OTHERWISE NOTED.
C. PROVIDE ALL REQUIRED LOW VOLTAGE CONTROL WIRING MIN 3/4"C, 2#4, #14G FOR, BUT NOT LIMITED TO, FLOW METERS, CHEMICAL CONTROL RELAY CIRCUITS, ETC. FOLLOW EQUIPMENT MANUFACTURERS' WRITTEN INSTRUCTIONS.
D. PROVIDE JUNCTION BOX AND WIRING FOR FLOW METERS PER MANUFACTURER'S LITERATURE.
E. ALL RECEPTACLES TO BE WATERPROOF AND GFCI. PROVIDE STANDS SECURED TO FLOOR SLAB FOR EXTERIOR INSTALLATIONS WITHOUT WALLS.
F. PROVIDE FLOW SWITCH WITH HEATER(S) TO INTERLOCK THE CIRCULATION PUMP WITH THE CHEMICAL FEEDERS AND WITH THE HEATER.
G. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF POOL WATER LEVEL SENSORS WITH POOL CONTRACTOR. LOW VOLTAGE CONTROL WIRING SHALL BE PROVIDED BY THE POOL CONSTRUCTION CONTRACTOR.
H. ELECTRICAL CONTACTORS WITH 120V COILS AND STARTERS WITH 120V COILS SHALL BE SUPPLIED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
I. STARTS, DISCONNECTS, PANELBOARDS, AND CONTROL PANELS INSIDE POOL EQUIPMENT ROOMS INCLUDING CHEMICAL STORAGE ROOMS TO BE NEMA 4X. ALL OUTDOOR STARTS, DISCONNECTS, PANELBOARDS, AND CONTROL PANELS TO BE NEMA 3R.
J. WHERE CONNECTING CONDUCTORS TO MOTOR TERMINALS, USE LIQUIDTITE CONDUIT (3' MAXIMUM) FROM THE RIGID CONDUIT TO THE MOTOR J-BOX.
K. ELECTRICAL CONTRACTOR SHALL PERFORM ALL FINAL POWER AND CONTROL WIRING, INCLUDING LOW VOLTAGE, TERMINATIONS AT POOL CONTROL PANEL, CONTROL J-BOX, PCP STARTER, EMERGENCY STOP PUSHBUTTON, TIMER AND WATER LEVEL SENSORS AS REQUIRED FOR PROPER NORMAL AND EMERGENCY SHUTDOWN OPERATION OF ALL PUMPS.

MARKINGS:

A. LABEL PANELS, CABINETS, DEVICES, CONTRACTORS, AND OTHER SPECIFICALLY DESIGNATED EQUIPMENT TO CLEARLY INDICATE THE FEEDING PANEL AND CIRCUIT NUMBER. FOR FEEDERS, LABEL CONDUIT DESIGNATIONS ON BOTH VISIBLE ENDS OF CONDUIT RUNS WHERE CONDUITS TERMINATE AT DESIGNED ENCLOSURES OR EQUIPMENT, INCLUDING PULL AND SPLICE BOXES.
B. PROVIDE LABELS FOR ALL EQUIPMENT POWERED BY RECEPTACLES.
C. ALL CONDUIT MARKED ON THESE PLANS AS REQUIRING PAINT SHALL HAVE THREE COATS OF PAINT: PRIMER AND TWO FINAL EPOXY COATS.

BONDING AND GROUNDING:

A. BONDING OF ALL POOL EQUIPMENT AND CONSTRUCTION SHALL BE INSTALLED PER REQUIREMENTS OF CEC 680.6 AND 680.26.
B. ALL METAL PARTS IN SWIMMING POOL AREAS AND EQUIPMENT ROOM SHALL BE GROUND BONDED WITH #8 SOLID BARE COPPER INCLUDING BUT NOT LIMITED TO ALL PUMPS, HEATERS, POOL AND LIGHTS, LADDERS, HAND RAILS, AND REBAR PER REQUIREMENTS OF CEC 680.6 AND 680.26.

COORDINATION:

A. EQUIPMENT ROOM LIGHTING BY OTHERS.
B. COORDINATE ALL WORK WITH OTHER ENGINEERS AND CONTRACTORS ON-SITE THAT ARE OUTSIDE BUT AFFECTED BY THIS SCOPE AS REQUIRED.
C. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY LOCATION OF SWIMMING POOL LIGHT TOGGLE SWITCHES AND MAINTAIN CLEARANCES PER REQUIREMENTS OF CEC 680.22 AND EMERGENCY OFF TOGGLE SWITCH PER 680.41.
D. VENTILATE POOL CHEMICAL STORAGE AREAS PER LOCAL, STATE, AND INTERNATIONAL MECHANICAL CODE MINIMUMS. REFER TO MECHANICAL.
E. CORE DRILL FOR WALL-PENETRATIONS AS REQUIRED.

ELECTRICAL SYMBOLS LEGEND

SYMBOL	DESCRIPTION
S	SINGLE POLE MOTOR RATED SWITCH, 48" HEIGHT
	SINGLE RECEPTACLE, 20A/240V/1Ø, 18" A.F.F.
	DUPLEX RECEPTACLE, 20A/120V/1Ø, 18" A.F.F.
	DISCONNECT SWITCH
	EQUIPMENT CONNECTION
	MOTOR BY OTHERS, CONTRACTOR CONNECTS
	HOMERUN W/ GROUND, NEUTRAL, HOT
	HOMERUN W/ GROUND, 2 HOTS
	HOMERUN W/ GROUND, 3 HOTS
J	JUNCTION BOX
ALL SYMBOLS MAY NOT APPEAR ON PLANS	

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LICENSED ARCHITECT
JAMES P. McCLELLAND
C-21797
07/31/2026
STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

BUILDING P
EQUIPMENT ROOM
ELECTRICAL PLAN

PHASE DESCRIPTION
100% CD - DSA APPROVAL
INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: RD
PROJECT MANAGER: BR
JOB NUMBER: 791

SHEET NUMBER
SP5.2-1

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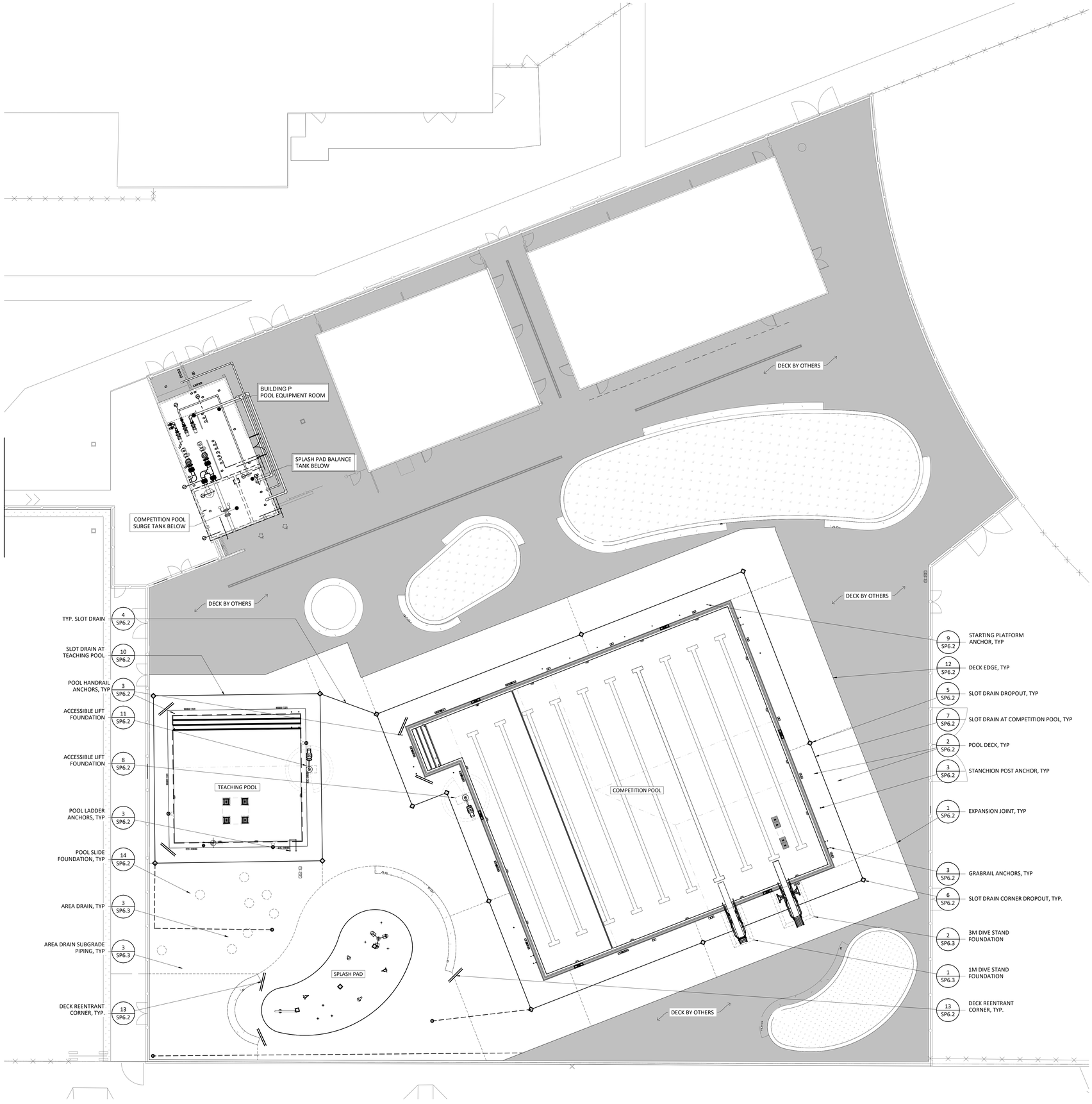

POOL DECK GENERAL NOTES:

1. THE POOL DECK SHALL BEAR ONTO FIRM SUITABLE SOIL OR AS DETERMINED BY THE PROJECT GEOTECHNICAL ENGINEER. SOILS SHALL BE MAINTAINED AT AN ELEVATED MOISTURE CONTENT DURING CONSTRUCTION AND IMMEDIATELY PRIOR TO CONCRETE PLACEMENT.
2. POOL DECK TO SLOPE NO GREATER THAN 2% TO A DRAINAGE SYSTEM AS SHOWN AND WITHIN THESE PLANS DRAINS.
3. FOR POOL DECK AREA DRAINAGE WASTE CONNECTION REFER TO EXISTING AS-BUILT DRAWINGS.
4. POOL DECK TO HAVE A MEDIUM BROOM FINISH. CONTRACTOR TO PROVIDE TEST PANELS PER WRITTEN SPECIFICATION AREA FOR OWNER AND ENGINEER APPROVAL OF FINISH PRIOR TO CONCRETE PLACEMENT. TEST PANELS SHALL HAVE AT LEAST ONE EXPANSION JOINT AND ONE CONTROL JOINT.
5. POOL DECK CONTROL JOINT PLAN PER ARCHITECTURAL DRAWINGS.

POOL DECK JOINT NOTES:

1. CONTRACTOR TO SUBMIT FOR ENGINEER REVIEW AND APPROVAL POOL DECK JOINT LAYOUT AND POUR SEQUENCE SUBMITTAL 3 MONTHS PRIOR TO CONCRETE PLACEMENT.
2. NO JOINTS SHALL TRAVERSE TILE OR EMBEDDED ANCHORS. CONTRACTOR TO RELOCATE JOINTS AS NEEDED, MAXIMUM 6".
3. EXPANSION JOINTS SHALL HAVE A MAXIMUM SPACING OF 100'-0" AND SHALL BE LOCATED TO REDUCE INTERNAL CORNERS.
4. EXPANSION JOINTS SHALL BE PLACED MINIMUM 6" AWAY FROM THE FACE OF UTILITY PEDESTALS.
5. EXPANSION JOINTS SHALL BE PLACED AROUND ALL SHADE STRUCTURE SLEEVES, COLUMNS, AND FOUNDATIONS WHERE THEY PENETRATE THE DECK.
6. CONTROL JOINTS SHALL HAVE A MAXIMUM SPACING OF 12'-0" AND SHALL CREATE PANELS WHOSE LENGTHS DO NOT EXCEED A 1.5:1 RATIO.
7. CONTROL JOINTS SHALL BE SAW CUT INTO THE CONCRETE SLAB TO A DEPTH OF ONE/FOURTH THE SLAB THICKNESS.
8. CONTROL JOINTS SHALL BE CUT AS SOON AS THE CONCRETE IS SUFFICIENTLY HARD TO RESIST TEARING, RAVELING, AND BEFORE RANDOM CRACKING OCCURS. APPROXIMATELY 1-4 HOURS AFTER FINISHING. TIMELINE FOR CUTTING CONTROL JOINTS SHOULD BE AS SOON AS THE CONCRETE IS HARD ENOUGH THAT SAWING DOES NOT RAVEL THE JOINT.

DESIGN BASIS:

1. 2022 CALIFORNIA BUILDING CODE (CBC)
2. GEOTECHNICAL INVESTIGATION BY TECHNICON PN: 240282.001 ON JUNE 12, 2024.

MATERIALS:

1. CONCRETE:
   - A. NORMAL WEIGHT CONCRETE SHALL BE MIXED AND PROPORTIONED IN ACCORDANCE WITH ACI 301.
   - B. MINIMUM COMPRESSIVE STRENGTH, F'C, SHALL BE 4,500 PSI @ 28 DAYS
   - C. SLUMP: 3" ± 1"
   - D. AGGREGATE: 1 INCH MAX
   - E. CEMENT CONTENT: 600 LBS/YDS MIN.
   - F. W/C RATIO: 0.45 MAX
   - G. TYPE V CEMENT SHALL BE USED
   - H. SHRINKAGE AT 28 DAYS (PER ASTM C-157) SHALL NOT EXCEED 0.055% FOR DRY CURING.
   - I. CONCRETE SHALL BE PLACED ON OR AGAINST FIRM UNDISTURBED SOIL.
   - J. CEMENT USED SHALL BE ASTM C150, TYPE II/V CEMENT.
2. REINFORCEMENT:
   - A. USE CBC SECTION 19A, ACI 318 AND ACI 506 AS A GUIDELINE.
   - B. REINFORCEMENT SHALL BE ASTM- A615 GRADE 60, MINIMUM TENSILE STRENGTH: 80 KSI.
   - C. LAP SPLICES SHALL BE 60 BAR DIAMETERS.
   - D. 3" MIN COVER FOR REINFORCEMENT TO SOIL.
   - E. DECK DOWELS BETWEEN THE POOL AND ADJACENT DECKING SHALL NOT BE USED.
3. BOND BREAK:
   - A. SHALL CONSIST OF VISQUEEN BOND BREAK OR APPROVED EQUAL.
4. EXPANSION JOINT:
   - A. EXPANSION JOINT FILL MATERIAL SHALL BE "DECK-O-FOAM" EXPANSION JOINT FILLER, NON-STAINING CLOSED-CELL POLYETHYLENE. SAND MAY BE USED AS AN ALTERNATIVE.
   - B. EXPANSION JOINT BACKER ROD SHALL BE CLOSED CELL, NON-ABSORBENT COMPRESSIBLE MATERIAL MANUFACTURED FOR THE SPECIFIC PURPOSE OF CONTROLLING SEALANT DEPTH. BACKER ROD MAY BE OMITTED IF A BACKER ROD IS INTEGRATED INTO EXPANSION JOINT FILLER.
   - C. EXPANSION JOINT SEALANT SHALL BE "DECK-O-SEAL" GUN GRADE 2-PART JOINT SEALANT 2-PART POLYSULFIDE 2-COMPONENT CHEMICALLY CURED POLYSULFIDE RUBBER.

REQUIRED SPECIAL INSPECTIONS:

1. CONCRETE PLACEMENT INSPECTION.

REQUIRED TESTING:

1. CONCRETE COMPRESSION TESTS (1 SET/50 YDS)
2. COMPACTION TESTING OF SUBGRADE AND ANY FILL.

REQUIRED SPECIAL INSPECTIONS:

1. CONCRETE PLACEMENT INSPECTION.
2. COMPACTION TESTING OF SUBGRADE AND ANY FILL.

REQUIRED TESTING:

CONCRETE COMPRESSION TESTS (1 SET/50 YDS)

POOL DECK PLAN LEGEND

SYMBOL/LINE	DESCRIPTION
----------	EXPANSION JOINT
- - - - - -	AREA DRAIN SUBGRADE PIPING
————	SLOT DRAIN
◇	SLOT DRAIN CATCH BASIN

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SHEET TITLE

POOL DECK PLAN

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

DATE: 9/24/2025
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PROJECT MANAGER: BR
JOB NUMBER: 791

SHEET NUMBER
SP6.0-1

POOL DECK PLAN
3/32" = 1'-0"
1

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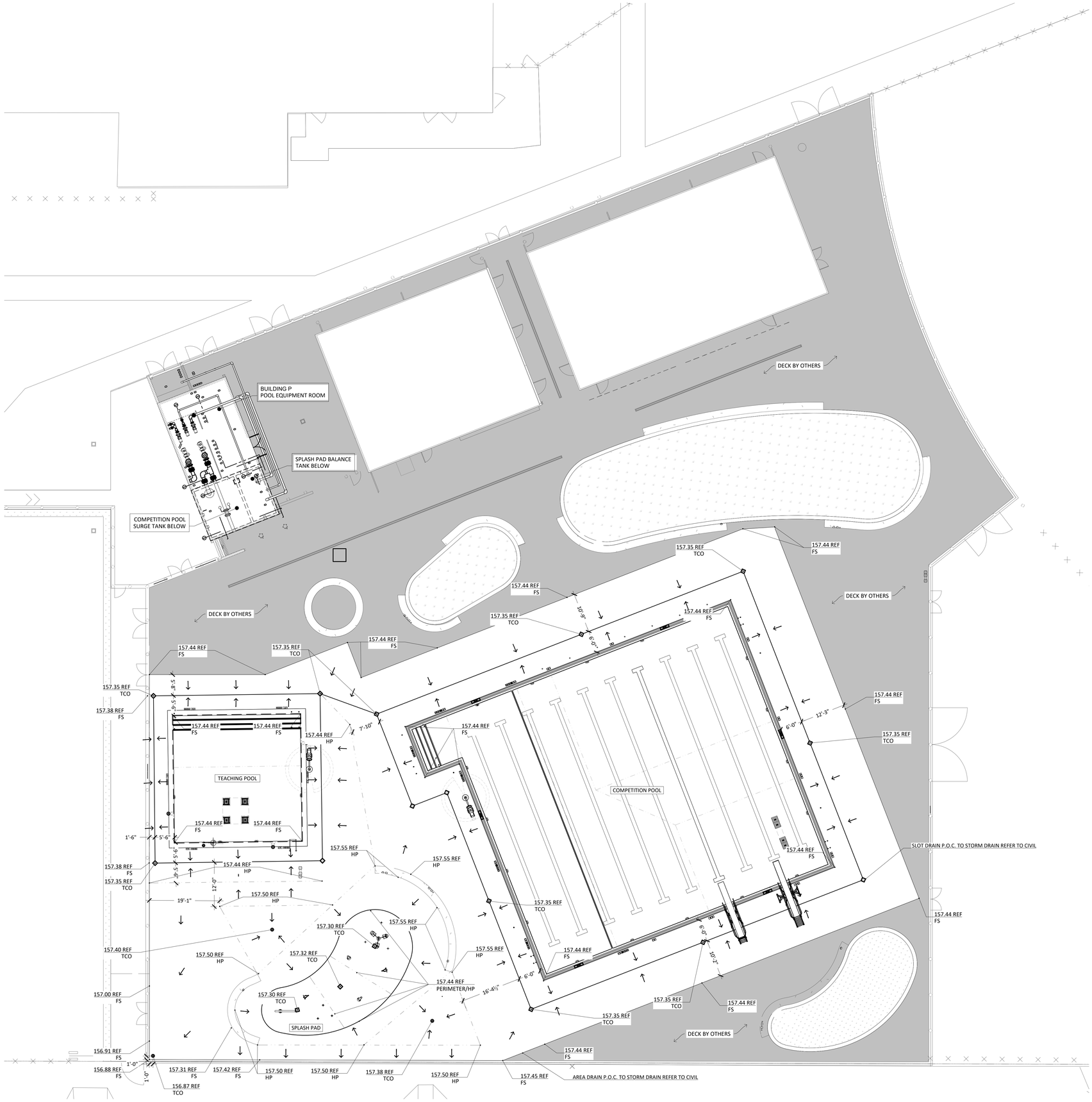
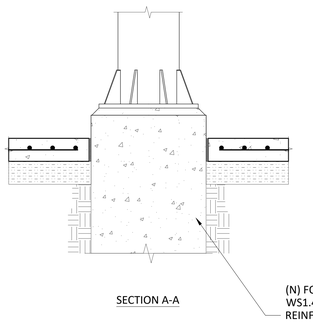
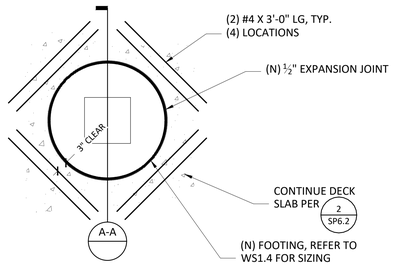


POOL DECK DIMENSIONAL CONTROL PLAN NOTES:

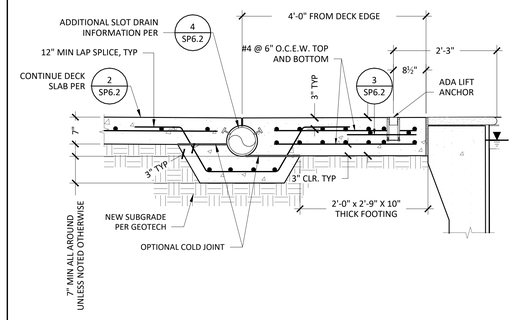
1. ALL DIMENSIONS SHALL BE VERIFIED PRIOR TO THE START OF THE WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER PRIOR TO CONSTRUCTION.
2. THE POOL DECK TO SLOPE NO GREATER THAN 2% AND NO LESS THAN 1% TO AREA DRAINS.

POOL DECK PLAN LEGEND	
SYMBOL/LINE	DESCRIPTION
———	SLOT DRAIN
- - -

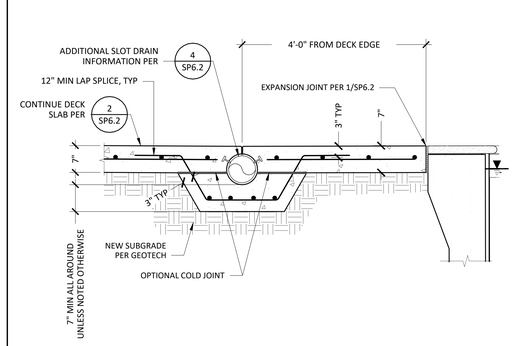




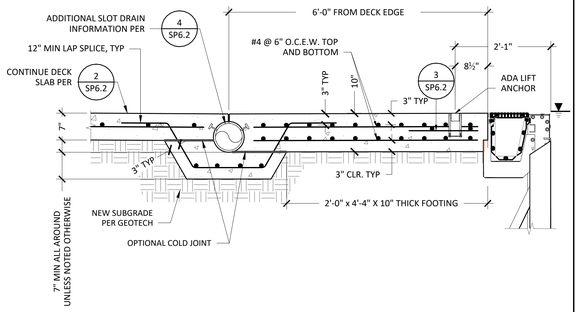
DECK AT WATERSLIDE, SHADE STRUCTURE AND LIGHTING
3/4" - 1'-0" | 14



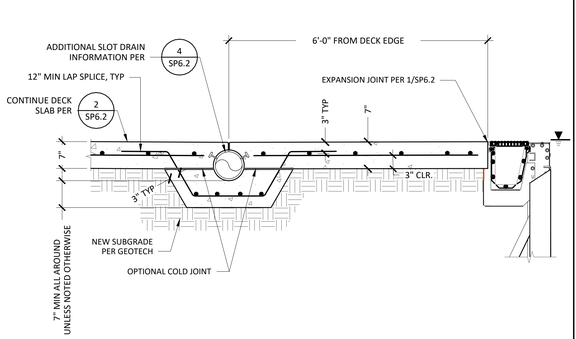
DECK SLOT DRAIN AT TEACHING POOL ACCESSIBLE LIFT FOUNDATION
3/4" = 1'-0" | 11



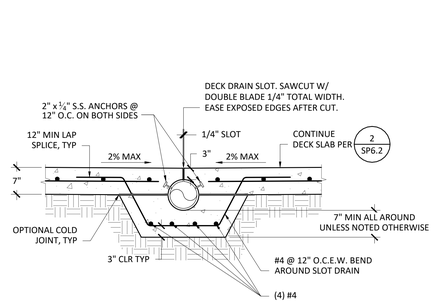
DECK SLOT DRAIN AT TEACHING POOL
3/4" = 1'-0" | 10



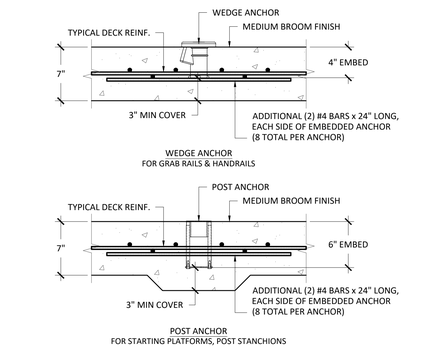
DECK SLOT DRAIN AT COMP. POOL ACCESSIBLE LIFT FOUNDATION
3/4" = 1'-0" | 8



DECK SLOT DRAIN AT COMPETITION POOL
3/4" = 1'-0" | 7

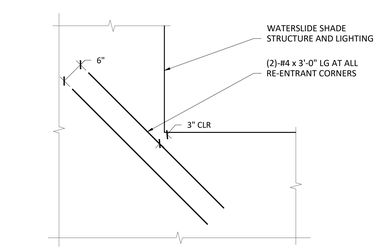


TYPICAL DECK SLOT DRAIN
3/4" = 1'-0" | 4

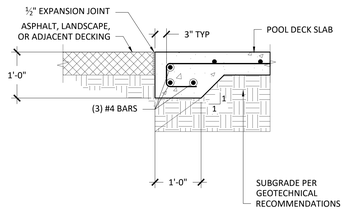


NOTE: BOND & GROUND PER CEC

TYPICAL DECK ANCHOR
N.T.S. | 3

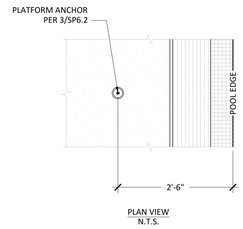


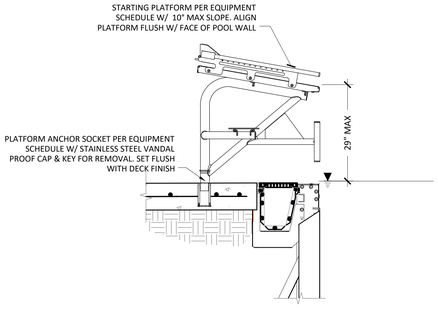
TYPICAL ADDITIONAL REINF. AT DECK RE-ENTRANT CORNERS
NOT TO SCALE | 13



DECK EDGE
3/4" = 1'-0" | 12

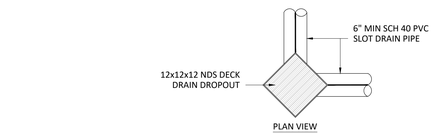
NOTES:
1. CONTRACTOR TO VERIFY ANCHOR SOCKET SET IS COMPATIBLE WITH STARTING PLATFORM AND MUST INSTALL PER MANUFACTURER'S REQUIREMENTS.
2. CONTRACTOR TO VERIFY ALL INSTALLATION DIMENSIONS, INCLUDING SETBACK DIMENSION.
3. CONTRACTOR TO VERIFY AND INSTALL STARTING PLATFORM ON SWIM RACING LANE CENTERLINE.
4. STARTING PLATFORM & ANCHOR SOCKETS SETS WITH AN INCORRECT INSTALLATION OR IMPROPER DIMENSIONAL TOLERANCE WILL BE REMOVED AND REINSTALLED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.
5. LOCATE DECK PLATE ON STEP SIDE OF STARTING PLATFORM.

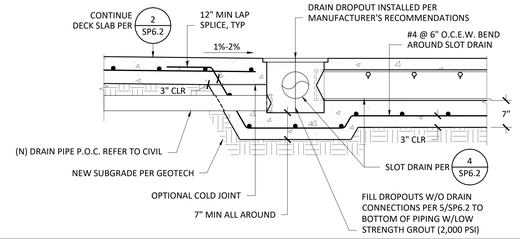




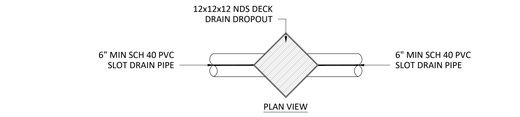
NOTE: BOND & GROUND PER CEC

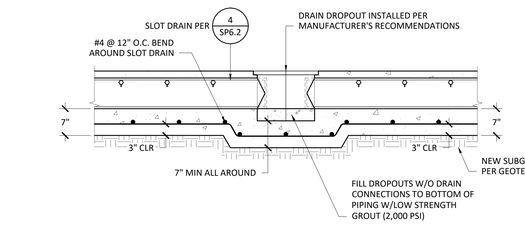
STARTING PLATFORM AT ANCHOR
3/4" = 1'-0" | 9





DECK SLOT DRAIN CORNER DROPOUT
3/4" = 1'-0" | 6

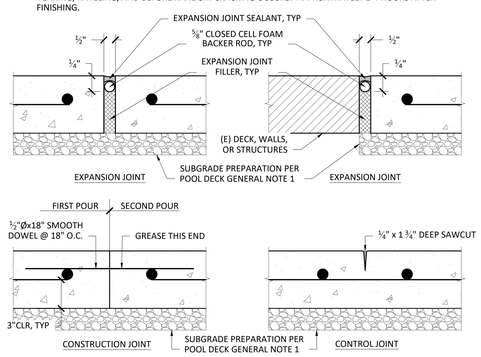




DECK SLOT DRAIN STRAIGHT DROPOUT
3/4" = 1'-0" | 5

TYPICAL DECK SLAB
3/4" = 1'-0" | 2

JOINT NOTES:
1. CONSTRUCTION JOINTS & CONTROL JOINT SHALL HAVE LENGTH TO WIDTH RATIOS NOT EXCEEDING 1 ½" TO 1. REENTRANT CORNERS SHALL BE AVOIDED.
2. CONTRACTOR SHALL SUBMIT LAYOUT PLAN SHOWING PROPOSED CONTROL AND CONSTRUCTION JOINT LOCATIONS.
3. JOINT SPACING SHALL NOT EXCEED 20 FT. IN EITHER DIRECTION.
4. CONTROL JOINTS SHALL BE CUT AS SOON AS THE CONCRETE IN SUFFICIENTLY HARD TO RESIST TEARING, RAVELING, AND BEFORE RANDOM CRACKING OCCURS. APPROXIMATELY 1-4 HOURS AFTER FINISHING.



DECK SLAB JOINTS
N.T.S. | 1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123309 INC: 1
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 9/30/2025

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SEAL

PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

POOL DECK DETAILS

PHASE DESCRIPTION
100% CD - DSA APPROVAL
INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: RD
PROJECT MANAGER: BR
JOB NUMBER: 791

SHEET NUMBER
SP6.2-1

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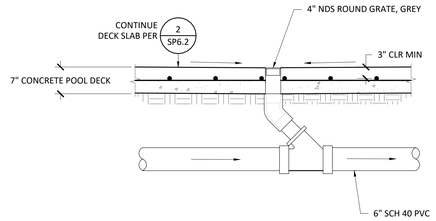
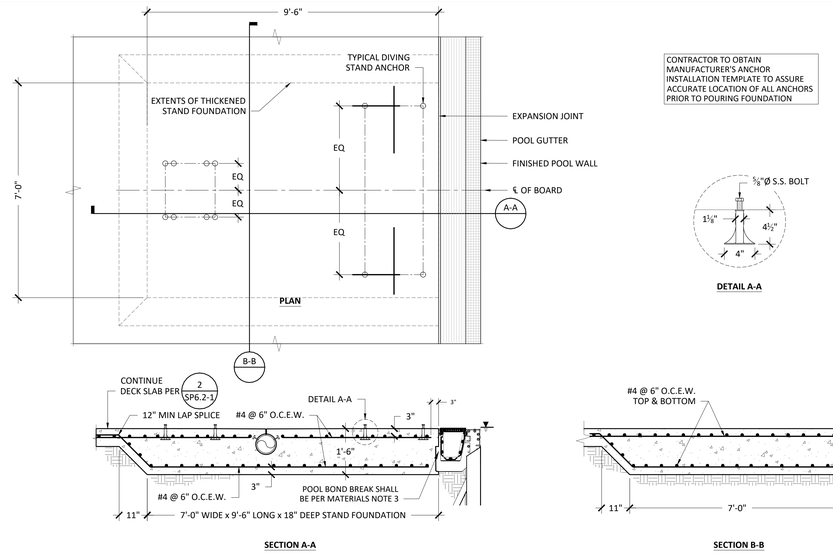
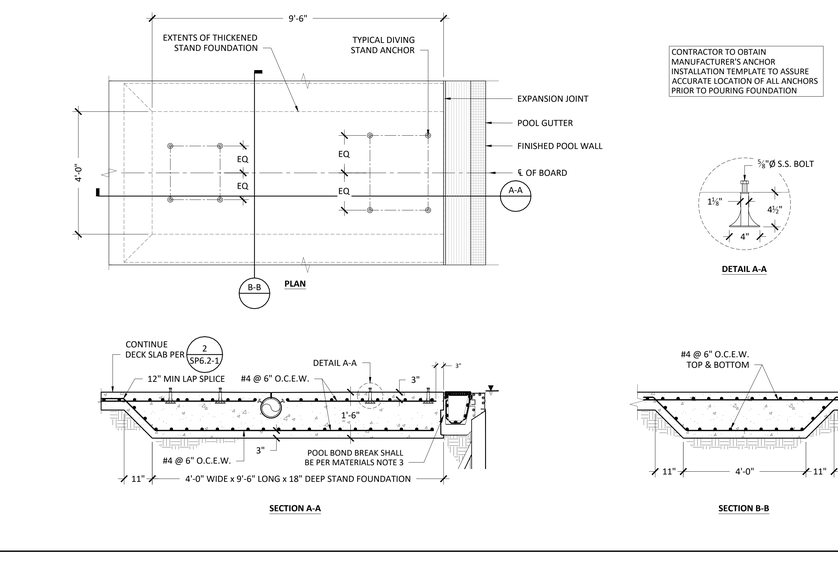


TYPICAL DECK AREA DRAIN
3/4" = 1'-0"
3



3M DIVE STAND FOUNDATION
1/2" = 1'-0"
2



1M DIVE STAND FOUNDATION
1/2" = 1'-0"
1

IDENTIFICATION STAMP
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SEAL

LICENSED ARCHITECT
JAMES P. McCLELLAND
C-21797
07/31/2027
STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

POOL DECK DETAILS

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: RD
PROJECT MANAGER: BR
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SHEET NUMBER
SP6.3-1

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GENERAL NOTES

DESIGN SPECIFICATIONS: ANSI/AISC 360-16 (15th ED); ACI 318-19; ASCE 7-16; ASTM F2376
GOVERNING BUILDING CODE: CALIFORNIA BUILDING CODE 2022 (IBC 2021)

GRAVITY LOADING:

WATER SLIDE:
DEAD LOAD
42" OPEN FLUME = 50 plf

WATER LOAD
42" OPEN FLUME =15 plf

RIDER (LIVE) LOAD
42" OPEN FLUME = 400 lbs

STAIRS AND LANDINGS
DEAD LOAD = 15 psf
LIVE LOAD = 100 psf

WIND DESIGN
UNOCCUPIED ULTIMATE WIND VELOCITY (RISK CAT. I) = 88 MPH (3 SECOND GUST)
UNOCCUPIED ASD WIND VELOCITY (RISK CAT. I) = 69 MPH (3 SECOND GUST)
OCCUPIED ULTIMATE WIND VELOCITY (RISK CAT. II) = 94 MPH (3 SECOND GUST)
OCCUPIED ASD WIND VELOCITY (RISK CAT. II) = 73 MPH (3 SECOND GUST)
EXPOSURE CATEGORY = C

SEISMIC DESIGN FACTORS:
AS INDICATED IN GEOTECHNICAL REPORT
S_s = 0.967g S_{DS} = 0.891g
S_1 = 0.336g S_{D1} = 0.672g
SITE CLASS DEFINITION = D
SEISMIC DESIGN CATEGORY D
AMUSEMENT STRUCTURE NON BUILDING
R= 2.0
RISK CATEGORY = II

GENERAL CONSTRUCTION NOTES:

1. ALL WORK SHALL COMPLY WITH THE GOVERNING LOCAL BUILDING CODE.
2. REFERENCE STANDARD: UNLESS OTHERWISE NOTED (U.O.N.), ALL STANDARDS SHALL BE CURRENT EDITION, WITH LATEST ADDENDA, IF APPLICABLE.
3. THE CONTRACTOR SHALL VERIFY ALL CONTRACT DOCUMENTS, SITE ELEVATIONS, DIMENSIONS AND CONDITIONS PRIOR TO STARTING WORK AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR INCONSISTENCIES.
4. GROUNDING OF SLIDE STRUCTURE AND SUPPORTS SHALL BE DONE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND THE LOCAL BUILDING CODE. GROUNDING NOT BY SPLASHTACULAR.

FOUNDATIONS:

1. FOUNDATIONS FOR THIS PROJECT HAVE BEEN DESIGNED IN ACCORDANCE WITH REQUIREMENTS SET FORTH IN THE REPORT BY TECHNICON ENGINEERING SERVICES, INC. (TES NO. 240282, DATED JUNE 12, 2024). INDIVIDUAL SPREAD FOOTINGS HAVE BEEN DESIGNED TO BEAR ON TESTED AND APPROVED NATIVE SOIL OR ENGINEER FILL WITH A NET ALLOWABLE BEARING PRESSURE OF 3,000 PSF. REFER TO THE SOILS REPORT FOR ADDITIONAL INFORMATION AND REQUIREMENTS. CONTRACTOR SHALL VERIFY THE SOIL BEARING PRESSURE PRIOR TO FOOTING CONSTRUCTION. THE CONTRACTOR SHALL REFER TO THE GEOTECHNICAL REPORT FOR ALL REQUIREMENTS AND RECOMMENDATIONS PERTINENT TO THIS PROJECT.
2. ANCHOR BOLTS SHALL BE LOCATED BY MEANS OF A TEMPLATE. PROVIDE A NUT ABOVE AND BELOW TEMPLATE TO ASSURE PROPER VERTICAL ALIGNMENT. TEMPLATE PATTERN PROVIDED BY SPLASHTACULAR.
3. ALL FOUNDATIONS SHALL BE SQUARE AND LEVEL.
4. GROUT BELOW COLUMN BASES PLATES. GROUT SHALL BE DRY AND STIFF TO PREVENT SHRINKAGE, WITH A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI. THOROUGHLY COMPACT GROUT BENEATH BASE PLATE. CONTRACTOR TO PROVIDE (2) $\frac{3}{4}$" Ø WEEP HOLES BETWEEN COLUMN BASE PLATE AND CONCRETE PEDESTAL TO ALLOW FOR DRAINAGE OF COLUMN. (NOT BY SPLASHTACULAR CREWS)

EXCAVATION AND BACKFILL NOTES:

1. EXCAVATION AND BACKFILL SHALL BE EXECUTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
2. BACKFILL AND COMPACTION SHALL BE INSPECTED AND CERTIFIED BY A LICENSED GEOTECHNICAL ENGINEER.
3. FOOTING EXCAVATIONS SHALL BE EXCAVATED TO PROPER LINE AND LEVEL TO ENSURE MINIMUM CONCRETE OVER A FOOTING REINFORCEMENT FOR FOOTING DEPTH.

CONCRETE AND REINFORCING STEEL:

1. CONCRETE CONSTRUCTION SHALL CONFORM TO AMERICAN CONCRETE INSTITUTE (ACI) CODES AND SPECIFICATIONS, LATEST EDITION.

   ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE"
   ACI 315 "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT"
   ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE"

2. ALL CONCRETE FOR FOUNDATIONS SHALL BE NORMAL WEIGHT (150 PCF), 4000 PSI, 28 DAY COMPRESSIVE STRENGTH WITH 5% TO 7% AIR ENTRAINMENT.
3. ALL CAST-IN-PLACE CONCRETE SHALL BE TESTED BY AN INDEPENDENT TESTING LABORATORY. SEE PROJECT SPECIFICATIONS FOR REQUIREMENTS. CONTRACTOR SHALL RETAIN TEST RESULTS FOR DURATION OF CONSTRUCTION.
4. ALL CAST-IN-PLACE CONCRETE SHALL HAVE REACHED ITS DESIGN COMPRESSIVE STRENGTH PRIOR TO SLIDE STRUCTURE INSTALLATION . CONTRACTOR TO PROVIDE TESTING RESULTS IF REQUESTED BY SPLASHTACULAR.
5. ALL REINFORCING STEEL SHALL BE GRADE 60 DEFORMED, BILLET-STEEL ASTM A615 (MIN. 80 KSI TENSILE STRENGHT) UNLESS OTHERWISE NOTED.
6. CLEAR CONCRETE COVERAGE FOR ALL REINFORCING STEEL SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED ON THE DRAWING:

CONCRETE CAST ON SOIL	3"
FORMED CONCRETE EXPOSED TO EARTH OR WEATHER	2"

7. BARS MARKED CONTINUOUS AND ALL VERTICAL STEEL SHALL BE LAPPED OR EMBEDDED TO DEVELOP THE FULL TENSILE CAPACITY OF THE BAR. LAPS SHALL BE AS SPECIFIED BELOW OR AS NOTED ON THE DESIGN DRAWINGS.

#4	25" LAP	8" HOOK
#5	25" LAP	10" HOOK
#6	37" LAP	12" HOOK
#7	54" LAP	14" HOOK

8. ALL BARS ARE TO BE SUPPORTED IN FORMS AND SPACED WITH WIRE BAR SUPPORTS PER ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING CONCRETE STRUCTURES" (LATEST EDITION). BARS SHALL BE SECURELY WIRED PER LATEST EDITION OF CRSI RECOMMENDED PRACTICE FOR PLACING REINFORCING BARS. ACCESSORIES FOR EXPOSED CONCRETE SHALL BE PLASTIC OR SHALL HAVE PLASTIC TIPPED FEET.
9. CONCRETE PLACE DURING COLD WEATHER SHALL CONFORM TO THE REQUIREMENTS OF ACI 306. COLD WEATHER IS DEFINED AS A PERIOD WHEN, FOR MORE THAN 3 SUCCESSIVE DAYS THE MEAN DAILY TEMPERATURE DROPS BELOW 40 DEGREES FAHRENHEIT.
10. CONCRETE PLACED DURING HOT WEATHER SHALL CONFORM TO THE REQUIREMENTS OF ACI 305.
11. ALL EDGES OF FORMED CONCRETE SHALL HAVE A $\frac{3}{4}$" CHAMFER U.N.O.

STRUCTURAL STEEL:

1. ALL STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING:

W SHAPE STEEL	ASTM A992 GRADE 50
CHANNELS, ANGLES, PLATE, & MISC STEEL	ASTM A36
STRUCTURAL TUBING RECTANGULAR SECTIONS	ASTM A500, GRADE C (FY = 50 KSI)
STRUCTURAL TUBING HSS16.00 CIRCULAR	ASTM A500, GRADE C (FY = 46 KSI)
STEEL PIPE AND 24" DIA x 0.25	ASTM A53, GRADE B (FY = 35 KSI)
BOLTS, STEEL TO STEEL	A325N (SNUG TIGHT), A307N (SNUG TIGHT)
BOLTS, STEEL TO STEEL	A325SC (FULLY PRETENSIONED), WHERE NOTED
ANCHOR BOLTS	ASTM F1554 (FY = 36 KSI)

2. BOLT HOLES SHALL BE $\frac{1}{16}$" GREATER THAN BOLT SIZE (STANDARD HOLES), UNLESS NOTED OTHERWISE (U.N.O.). ALL BOLT HOLES LARGER THAN THE STANDARD HOLE SHALL BE CONSIDERED OVERSIZED OR SLOTTED AND REQUIRE THE INSTALLATION OF A WASHER. ALL BOLTS, NUTS, WASHERS AND STRUCTURAL STEEL SHALL BE HOT-DIP GALVANISED.
3. HARDENED WASHERS SHALL BE INSTALLED OVER ALL OVERSIZED OR SLOTTED HOLES.
4. WELDING SHALL CONFORM TO THE LATEST PUBLICATION OF APPLICABLE CODES SET FORTH BY THE AMERICAN WELDING SOCIETY. WELDING ELECTRODES SHALL BE ER70S-6.
5. ADHESIVE ANCHORS SHALL BE HILTI "HIT-RE 500 V3". INSTALL ANCHORS IN CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS (SEE HILTI HIT-RE 500 V3 ICC-ES ESR-3814 FOR PRODUCT INFORMATION).
   5.1. ONCE EPOXY IS FULLY CURED, PROVIDE A TENSION TEST LOAD OF 4,800 LBS FOR (1) MINUTE PER CBC 2022 SECTION 1910A.5.4 AND HILTI HIT-RE 500 V3 ICC-ES ESR-3814 PAGE 20.
6. ERECTOR AND FABRICATOR SHALL FOLLOW ALL AISC STANDARDS AND PRACTICES WHICH PERTAIN TO THE WORK HEREIN.

TREADS, LANDINGS, AND PLATFORM DECKING:

1. GRATING/DECKING FOR TREADS, LANDINGS AND PLATFORMS SHALL BE 1$\frac{1}{8}$" THICK WITH A NON SLIP WALKING SURFACE. SEE SEPARATE SUBMITTAL FOR ADDITIONAL DETAILS.

PLATFORM COVER/CANOPY: (SEE CONTRACT FOR INCLUSION OR EXCLUSION OF THE SLIDE CANOPY)

1. CANOPY SHALL BE PROVIDED OVER SLIDE ENTRY PLATFORMS. COVER SHALL BE A PIPE FRAME WITH ACRYLIC FABRIC OR WOVEN VINYL IMPREGNATED POLYESTER YARN. FABRIC SHALL BE ATTACHED TO PIPE FRAME USING WHITE STRAPS AND SPRING CLIPS.
2. BOTTOM OF SHADE SHALL BE 7'6" ABOVE THE ENTRY TUB.
3. CANOPY LEGS SHALL FIT INTO SLEEVES AT CORNERS OF THE DECK.
4. CANOPY DESIGN TO BE IN CONFORMANCE WITH IBC SECTION 3105.
5. FABRIC CANOPIES SHALL BE REMOVED DURING WINTER MONTHS. CANOPIES ARE NOT DESIGNED FOR SNOW LOADING.

STRUCTUAL STEEL COATING:

1. ALL STRUCTURAL STEEL SHALL BE HOT DIPPED GALVANIZED.
2. ON ALL PAINTED PROJECTS, THE STRUCTURAL STEEL WILL HAVE A POWDER COATED FINISH.

SPECIAL INSPECTIONS:

1. FOR SPECIAL INSPECTION ITEM SEE DSA 103
2. THE OWNER, ARCHITECT OR THE ENGINEER OF RECORD ACTING AS THE OWNERS AGENT SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTIONS FOR:
   2.1. CONCRETE
      2.1.1. CONTINUOUS: ANCHOR BOLT, TEST SAMPLE, SLUMP, TEMPERATURE
      2.1.2. PERIODIC: REINFORCING STEEL, PLACEMENT, DESIGN MIX, CURING, FORM WORK
   2.2. STEEL (AS REQUIRED TO MEET STATE/CITY BUILDING CODE AND QUALITY REQUIREMENTS)
      2.2.1. CONTINUOUS: SLIP CRITICAL CONNECTION, FULL PENETRATION WELD
      2.2.2. PERIODIC: IDENTIFICATION MARK, MANUFACTURER'S CERTIFICATION, BEARING TYPE CONNECTION, FILLET WELDS
   2.3. SOIL
      2.3.1. CONTINUOUS: BEARING CAPACITY
      2.3.2. PERIODIC: FOUNDATION DEPTH
3. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE TO THE SATISFACTION OF THE BUILDING OFFICIAL FOR INSPECTION OF THE ITEMS LISTED ABOVE.
4. THE SPECIAL INSPECTOR SHALL FURNISH AND SUBMIT A FINAL INSPECTION REPORT TO THE BUILDING OFFICIAL, THE ENGINEER OR ARCHITECT OF RECORD.
5. ANY COST ASSOCIATED WITH PROVIDING THE ABOVE INSPECTIONS INCLUDING SHOP INSPECTIONS AND MATERIAL TESTING SHALL BE BY THE OWNER, ARCHITECT OR ENGINEER ACTING AS THE OWNER'S AGENT. NOT BY SPLASHTACULAR.

FIBERGLASS FASTENER SPECIFICATIONS:

2. 3/8" x 1 1/2" S.S. FASTENERS AT ALL FLUME SECTION JOINTS
3. 1/2" x 3" GALVANIZED FASTENERS AT FLUME ARM MOUNTING PLATES

FIBERGLASS FLUME SPECIFICATIONS:

1. 20 MILS MIN OF SPRAY LAY-UP ISOPHTHALIC NEOPENTYL GLYCOL (ISO-NPG) GEL COAT W/ UV INHIBITORS, INTERIOR & EXTERIOR
2. LAMINATE THICKNESS OF 1/4" NOMINAL SPRAY/CHOP LAY-UP THROUGHOUT ENTIRE BODY
3. GLASS-TO-RESIN RATIO OF APPROXIMATELY 35 TO 65
4. FLANGE THICKNESS OF 1/4" NOMINAL
5. ONE (1) LAYER OF 18 OZ. WOVEN ROVING THROUGHOUT THE BODY OF FLUME AND BETWEEN LAYERS OF CHOP
6. REVERSE SIDES SANDED TO BE FREE OF BURRS AND SPRAYED TO A NON-POROUS FINISH WITH AN ISO-NPG GEL COAT CONTAINING A HI-GLOSS GEL COAT ADDITIVE (DURATEC)
7. ALL EDGES WET-TRIMMED AND HAND-SANDED TO DULL, ROUNDED EDGE AND FINISH WITH AN ISO-NPG GEL COAT CONTAINING DURATEC

FIBERGLASS STARTER TUB SPECIFICATIONS:

1. ALL OF THE ABOVE FLUME SPECIFICATIONS APPLY, EXCEPT AS NOTED
2. STARTER TUB LAMINATE THICKNESS IS 1/4" TO 5/16" OF SPRAY/CHOP LAY-UP THROUGHOUT THE ENTIRE BODY
3. FLOOR AND RIDING SURFACE ONLY IS REINFORCED WITH A NON-COMPRESSING CORE MATERIAL, OF NOT LESS THAN 3/8" THICK TO WITHIN 4" OF THE ATTACHMENT FLANGE, AND COVERED WITH NOT LESS THAN 1/8" SPRAY/CHOP LAMINATE.

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MARK	DATE		APPROVED
1	05/16/2025	ISSUED FOR APPROVAL	
2	08/04/2025	ISSUED FOR APPROVAL - REVISE & RESUBMIT 1	
3			
4			
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REGISTERED PROFESSIONAL ENGINEER — LAWENCE R. CASE — 22538 — EXP. 06/30/25 — STATE OF CALIFORNIA — CIVIL
08/11/25

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TITLE: GENERAL NOTES
PROJECT: TRANQUILITY HS

DATE: 03/26/2025	PROJECT NUMBER: 12125	COUNTRY: USA	
SCALE: NTS	DESIGNER: DAR	STATE: CALIFORNIA	
CHECKED: RRR	APPROVED: RRR	CITY: TRANQUILITY	

S1.0

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APP: 02-123309 INC: 1
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 9/30/2025

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SEAL
LICENSED ARCHITECT — JAMES P. McCLELLAND — C-21797 — 07/31/2026 — STATE OF CALIFORNIA

PROJECT
TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT
GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE
GENERAL NOTES

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

DATE: 9/24/2025
TECHNICIAN:
PROJECT MANAGER:
JOB NUMBER: 791
SHEET NUMBER
WS1.0-1

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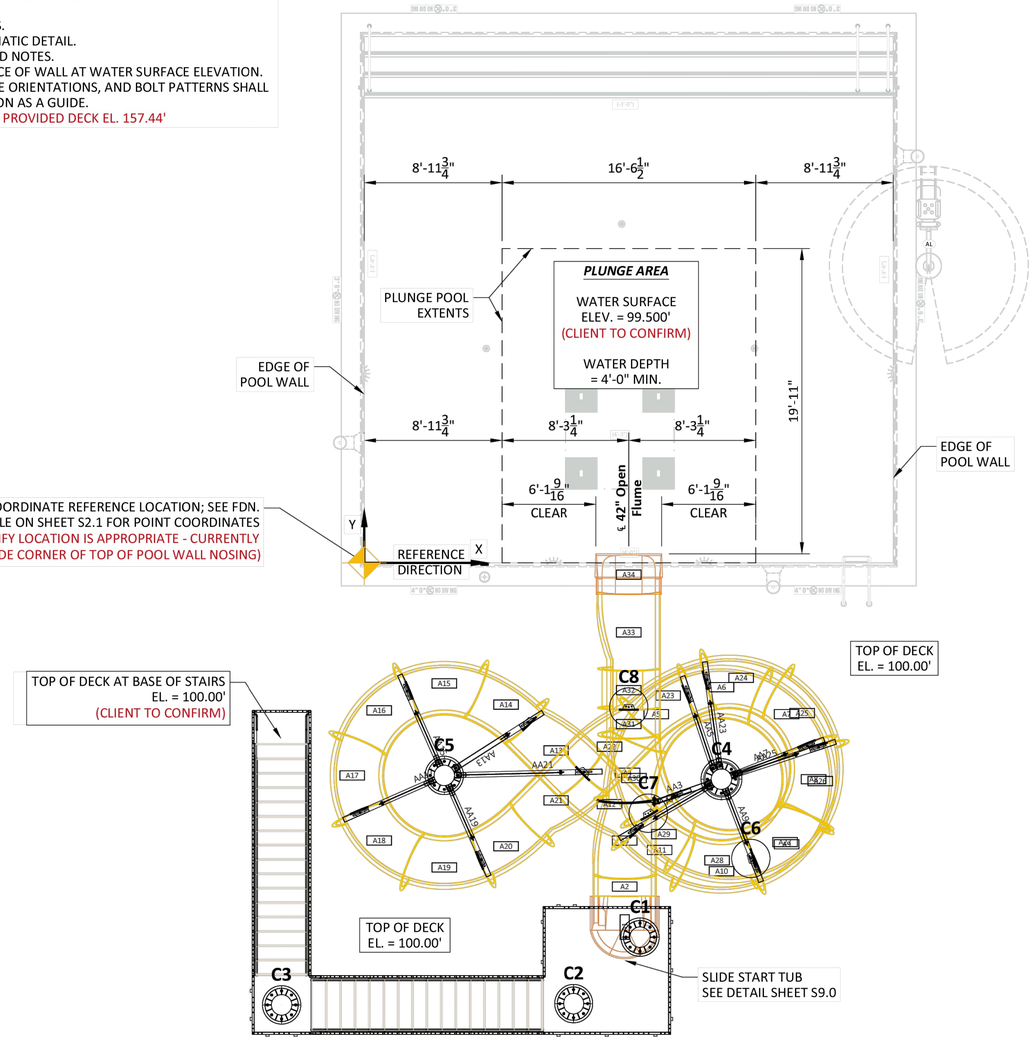
SS ☑ FLS ☑ ACS ☑
DATE: 9/30/2025

NOTES:
1. [1], [2], ETC. ARE FOR FIBERGLASS PARTS LABELS.
2. SEE SHEETS S3 FOR COLUMN SUPPORT DETAILS.
3. SEE SHEETS S4 FOR COLUMN SCHEDULE AND COLUMN ELEVATIONS.
4. SEE SHEETS S5 FOR ARM DETAILS.
5. SEE SHEETS S6 FOR STAIR PLAN AND DETAILS.
6. SEE DETAIL 03S9.0 FOR MECHANICAL SCHEMATIC DETAIL.
7. SEE SHEET S9.0 FOR FIBERGLASS DETAILS AND NOTES.
8. "EDGE OF POOL WALL" IS THE POOL SIDE FACE OF WALL AT WATER SURFACE ELEVATION.
9. COLUMN WELDMENTS, BASE AND CAP PLATE ORIENTATIONS, AND BOLT PATTERNS SHALL BE ALIGNED USING THE REFERENCE DIRECTION AS A GUIDE.
10. SPLASHTACULAR DECK EL. 100.000' = CLIENT PROVIDED DECK EL. 157.44'

Slide-A Length & Quantity		
Slide Type:	42" Open Body Slide	
Open:	147.65 ft	34 parts
Enclosed:	-	-
Runout:	-	-
Splashout:	-	-
Total:	147.65 ft	34 parts



1 S1.1 SLIDE LAYOUT PLAN
SCALE: 1/4" = 1'-0"

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REGISTERED PROFESSIONAL ENGINEER — RYAN R. RAMSEY — No. 72338 — EXP. 06/30/26 — CIVIL — STATE OF CALIFORNIA
08/11/25

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TITLE: SITE LAYOUT PLAN
PROJECT: TRANQUILITY HS
DATE: 03/26/2025 | PROJECT NUMBER: 12125 | COUNTRY: USA
SCALE: AS NOTED | DESIGNER: DAR | STATE: CALIFORNIA
CHECKED: RRR | APPROVED: RRR | CITY: TRANQUILITY

S1.1

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CLIENT
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SHEET TITLE
SITE LAYOUT PLAN

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

DATE: 9/24/2025
TECHNICIAN:
PROJECT MANAGER:
JOB NUMBER: 791
SHEET NUMBER
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SLIDE COMPONENT SCHEDULE (HELICAL) FOR SLIDE-A

Part No.	Part ID	Part Description	Length	Slope (%)	Slope (deg)	X Coord	Y Coord	Z Coord	Support	Bracket Height	Bracket Angle	Detail	Part Note
1	4204EN	Entry Tub	4.000'	0.00 %	0.00°	16.986'	-21.740'	119.933'				01S9.0	-
2	4208CX-S	8' Radius, Lo, Convex, 8.32 deg	1.162'	14.63 %	8.32°	16.986'	-20.582'	119.848'				-	-
3	4205TL	Hi-wall Transition, Left, 5.000'	5.000'	14.63 %	8.32°	16.986'	-15.634'	119.125'	AA3 / C4	-	98.32°	-	-
4	4210CR-S	10' Radius, Curve Right, 22.50 deg	3.957'	14.63 %	8.32°	17.747'	-11.808'	118.550'				-	-
5	4206CR	6' Radius, Curve Right, 45.00 deg	4.748'	14.63 %	8.32°	20.994'	-8.560'	117.860'	AA5 / C4	6.63"	98.32°	-	-
6	4206CR	6' Radius, Curve Right, 45.00 deg	4.748'	14.63 %	8.32°	25.587'	-8.560'	117.171'				-	-
7	4206CR	6' Radius, Curve Right, 45.00 deg	4.748'	14.63 %	8.32°	28.834'	-11.808'	116.481'	AA7 / C4	6.63"	98.32°	-	-
8	4206CR	6' Radius, Curve Right, 45.00 deg	4.748'	14.63 %	8.32°	28.834'	-16.400'	115.792'				-	-
9	4206CR	6' Radius, Curve Right, 45.00 deg	4.748'	14.63 %	8.32°	25.587'	-19.647'	115.102'	AA9 / C4	6.63"	98.32°	-	-
10	4206CR	6' Radius, Curve Right, 45.00 deg	4.748'	14.63 %	8.32°	20.994'	-19.647'	114.413'				-	-
11	4210CR-S	10' Radius, Curve Right, 22.50 deg	3.957'	14.63 %	8.32°	17.750'	-17.479'	113.838'	AA11 / C4	6.63"	98.32°	-	-
12	4205TR	Hi-wall Transition, Right, 5.000'	5.000'	14.63 %	8.32°	14.252'	-13.981'	113.115'				-	-
13	4205TR	Hi-wall Transition, Right, 5.000'	5.000'	14.63 %	8.32°	10.754'	-10.483'	112.391'	AA13 / C5	6.63"	98.32°	-	-
14	4210CL-S	10' Radius, Curve Left, 22.50 deg	3.957'	14.63 %	8.32°	7.509'	-8.315'	111.816'				-	-
15	4206CL	6' Radius, Curve Left, 45.00 deg	4.748'	14.63 %	8.32°	2.917'	-8.315'	111.127'	AA15 / C5	6.63"	98.32°	-	-
16	4206CL	6' Radius, Curve Left, 45.00 deg	4.748'	14.63 %	8.32°	-0.330'	-11.562'	110.437'				-	-
17	4206CL	6' Radius, Curve Left, 45.00 deg	4.748'	14.63 %	8.32°	-0.330'	-16.154'	109.748'	AA17 / C5	6.63"	98.32°	-	-
18	4206CL	6' Radius, Curve Left, 45.00 deg	4.748'	14.63 %	8.32°	2.917'	-19.401'	109.058'				-	-
19	4206CL	6' Radius, Curve Left, 45.00 deg	4.748'	14.63 %	8.32°	7.509'	-19.401'	108.369'	AA19 / C5	6.63"	98.32°	-	-
20	4210CL-S	10' Radius, Curve Left, 22.50 deg	3.957'	14.63 %	8.32°	10.754'	-17.234'	107.794'				-	-
21	4205TL	Hi-wall Transition, Left, 5.000'	5.000'	14.63 %	8.32°	14.252'	-13.735'	107.070'	AA21 / C5	6.63"	98.32°	-	-
22	4205TL	Hi-wall Transition, Left, 5.000'	5.000'	14.63 %	8.32°	17.750'	-10.237'	106.346'				-	-
23	4210CR	10' Radius, Curve Right, 30.00 deg	5.275'	14.63 %	8.32°	22.233'	-7.649'	105.580'	AA23 / C4	6.63"	98.32°	-	-
24	4206CR	6' Radius, Curve Right, 45.00 deg	4.748'	14.63 %	8.32°	26.786'	-8.248'	104.891'				-	-
25	4206CR	6' Radius, Curve Right, 45.00 deg	4.748'	14.63 %	8.32°	29.582'	-11.892'	104.201'	AA25 / C4	6.63"	98.32°	-	-
26	4206CR	6' Radius, Curve Right, 45.00 deg	4.748'	14.63 %	8.32°	28.982'	-16.445'	103.512'				-	-
27	4206CR	6' Radius, Curve Right, 45.00 deg	4.748'	14.63 %	8.32°	25.339'	-19.240'	102.822'	C6	6.63"	98.32°	-	-
28	4206CR	6' Radius, Curve Right, 45.00 deg	4.748'	14.63 %	8.32°	20.786'	-18.641'	102.133'				-	-
29	4206CR-S	6' Radius, Curve Right, 30.00 deg	3.165'	14.63 %	8.32°	18.590'	-16.445'	101.673'	C7	6.63"	98.32°	-	-
30	4210CR	10' Radius, Curve Right, 30.00 deg	5.275'	14.63 %	8.32°	17.250'	-11.445'	100.907'				-	-
31	4225CV-S	25' Radius, Hi, Concave, 4.32 deg	1.887'	6.99 %	4.00°	17.250'	-9.569'	100.704'	C8	6.63"	94.00°	-	-
32	4203HS-S	Hi-wall Straight, 2.552'	2.552'	6.99 %	4.00°	17.250'	-7.023'	100.526'				-	-
33	4205TR	Hi-wall Transition, Right, 5.000'	5.000'	6.99 %	4.00°	17.250'	-2.035'	100.177'				-	-
34	4203EC	Pool End Cap	2.542'	6.99 %	4.00°	17.250'	0.500'	100.000'				02S9.0	-

NOTE: SEE WS1.6-1 FOR ADDITIONAL DETAILS

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2	08/04/2025	ISSUED FOR APPROVAL - REVISE & RESUBMIT 1	
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REGISTERED PROFESSIONAL ENGINEER — LAWENCE L. LESSLEY — 72530 — EXP. 06/30/26 — STATE OF CALIFORNIA — CIVIL

08/11/25

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TITLE: SLIDE A SCHEDULE		
PROJECT: TRANQUILITY HS		
DATE: 03/26/2025	PROJECT NUMBER: 12125	COUNTRY: USA
SCALE: NTS	DESIGNER: DAR	STATE: CALIFORNIA
CHECKED: RRR	APPROVED: RRR	CITY: TRANQUILITY

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DATE: 9/30/2025

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PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
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Tranquillity, CA 93668

CLIENT

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SHEET TITLE

SLIDE A SCHEDULE

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

DATE: 9/24/2025

TECHNICIAN:

PROJECT MANAGER:

JOB NUMBER: 791

SHEET NUMBER
WS1.2-1

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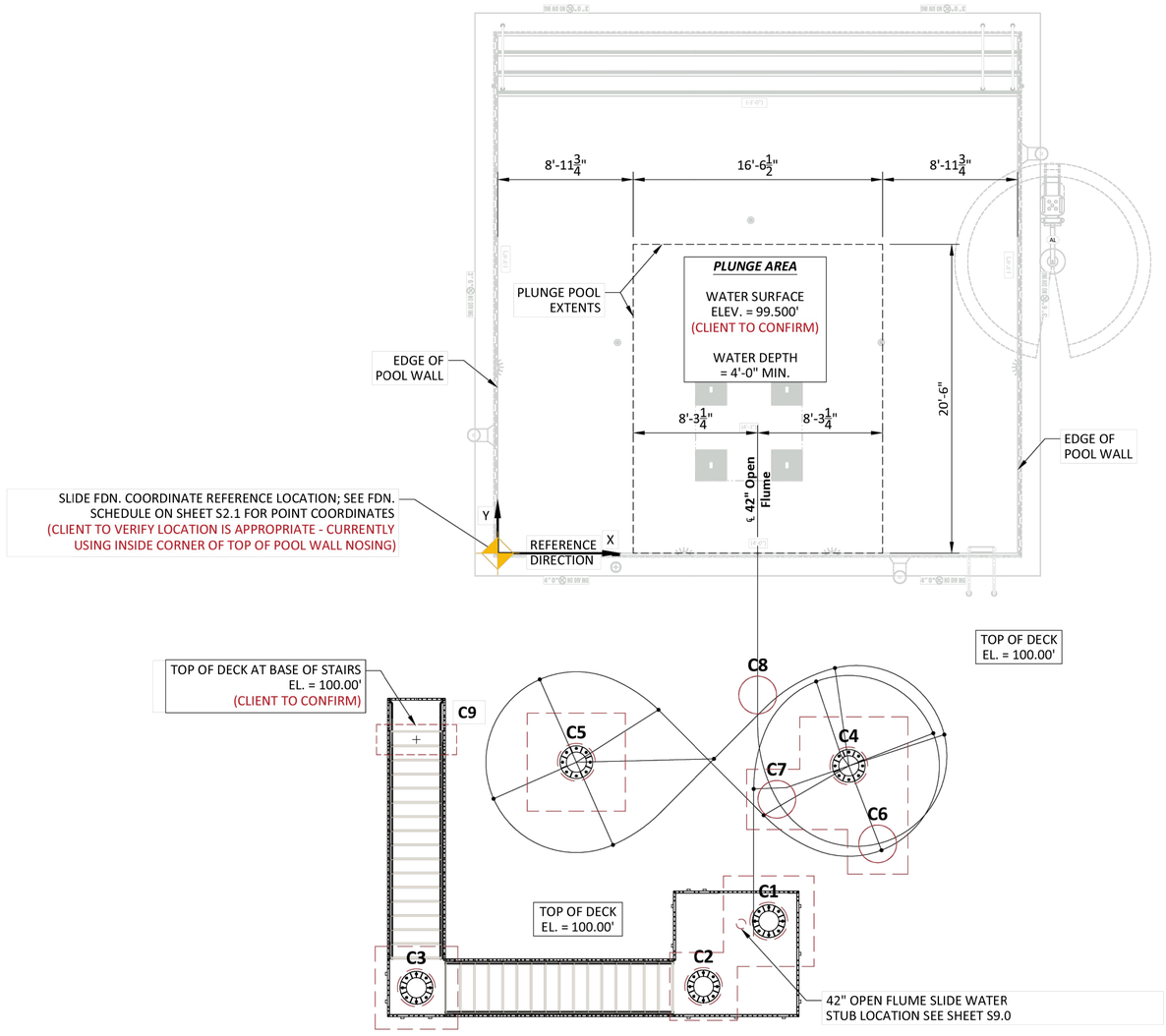

1 S2.0 FOUNDATION PLAN
SCALE: 1/4" = 1'-0"

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DAVID A. RESCH No. 72538 REGISTERED PROFESSIONAL ENGINEER STATE OF CALIFORNIA CIVIL Exp. 06/30/26
08/11/25

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TITLE: FOUNDATION LAYOUT
PROJECT: TRANQUILITY HS

DATE: 03/26/2025	PROJECT NUMBER: 12125	COUNTRY: USA	
SCALE: AS NOTED	DESIGNER: DAR	STATE: CALIFORNIA	
CHECKED: RRR	APPROVED: RRR	CITY: TRANQUILITY	

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CLIENT
GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE
FOUNDATION LAYOUT

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

DATE: 9/24/2025
TECHNICIAN:
PROJECT MANAGER:
JOB NUMBER: 791
SHEET NUMBER
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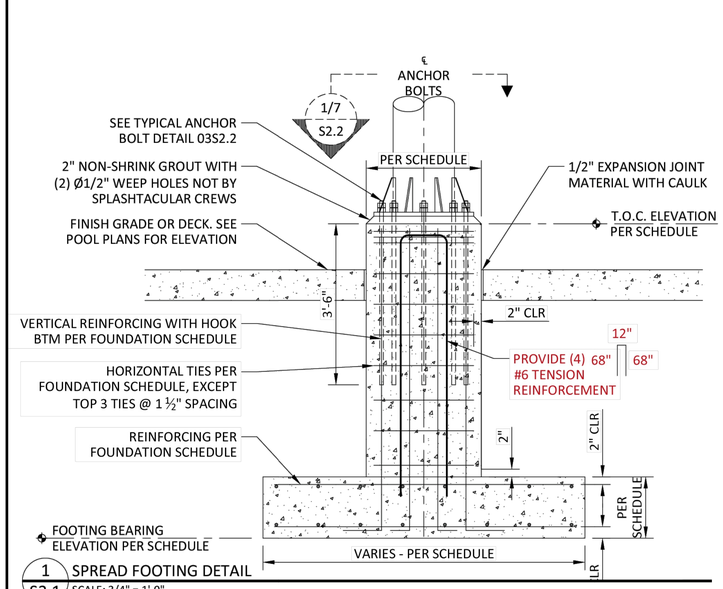
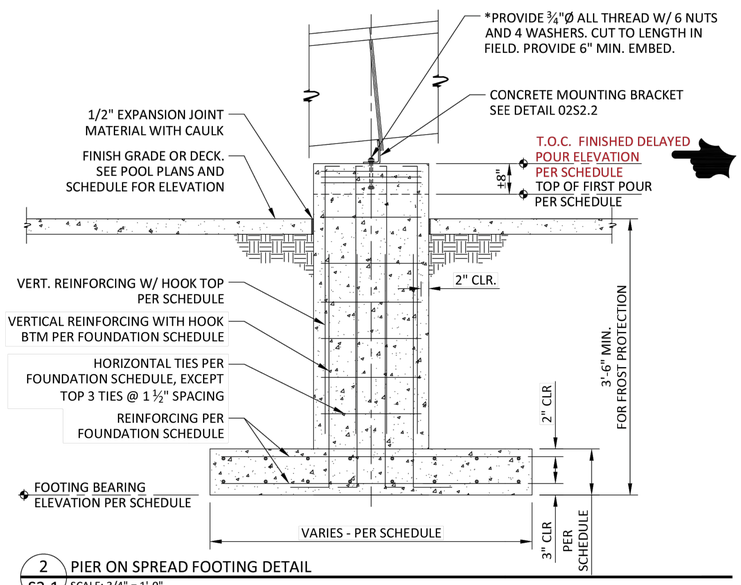
FOUNDATION SCHEDULE

Col No.	Foundation Type	Detail	T.O. First Pour (ft)	T.O.C. Elev (ft)	T.O.D. or T.O.G. Elev (ft)	F.B.E. Elev (ft)	Footing Dimensions (A x B x Thickness)	Footing Reinforcement	Concrete Pedestal Dia (in)	Vertical Reinf.		Horizontal Ties		X Coord	Y Coord	Notes
										Size	Qty	Size	Spc			
C1	Spread Footing	01S2.1	-	101.000'	100.000'	95.500'	See 05S2.2 x 18.00"	#6 Bars Spa. 10" O.C. Max. - Each Way - Top & Bottom	30"	#6	18	#3	8"o.c.	17.986'	-24.407'	-
C2	Spread Footing	01S2.1	-	101.000'	100.000'	95.500'	See 05S2.2 x 18.00"	#6 Bars Spa. 10" O.C. Max. - Each Way - Top & Bottom	30"	#6	18	#3	8"o.c.	13.653'	-28.740'	-
C3	Spread Footing	01S2.1	-	101.000'	100.000'	95.500'	5'-6" x 5'-6" x 18.00"	7 - #6 Equal Spacing - Each Way - Top & Bottom	30"	#6	18	#3	8"o.c.	-5.389'	-28.823'	-
C4	Spread Footing	01S2.1	-	101.000'	100.000'	95.500'	See 06S2.2 x 18.00"	#6 Bars Spa. 10" O.C. Max. - Each Way - Top & Bottom	32"	#6	18	#4	8"o.c.	23.290'	-14.104'	-
C5	Spread Footing	01S2.1	-	101.000'	100.000'	95.500'	6'-6" x 6'-6" x 18.00"	9 - #6 Equal Spacing - Each Way - Top & Bottom	30"	#6	18	#4	8"o.c.	5.213'	-13.858'	-
C6	Pier On Spread Footing	02S2.1	101.603'	102.270'	100.000'	95.500'	See 06S2.2 x 18.00"	#6 Bars Spa. 10" O.C. Max. - Each Way - Top & Bottom	30"	#6	12	#3	8"o.c.	25.202'	-19.277'	5.
C7	Pier On Spread Footing	02S2.1	100.454'	101.121'	100.000'	95.500'	See 06S2.2 x 18.00"	#6 Bars Spa. 10" O.C. Max. - Each Way - Top & Bottom	30"	#6	12	#3	8"o.c.	18.519'	-16.322'	5.
C8	Concrete Pier	03S2.1	99.486'	100.152'	100.000'	95.500'	30"Ø x Depth	-	30"	#7	12	#3	8"o.c.	17.250'	-9.403'	5.
C9	Thickened Slab	04S2.2	-	100.000'	100.000'	99.333'	5'-4" x 2'-0" x 8.00"	SEE DETAIL	-	-	-	-	-	-5.391'	-12.359'	1.

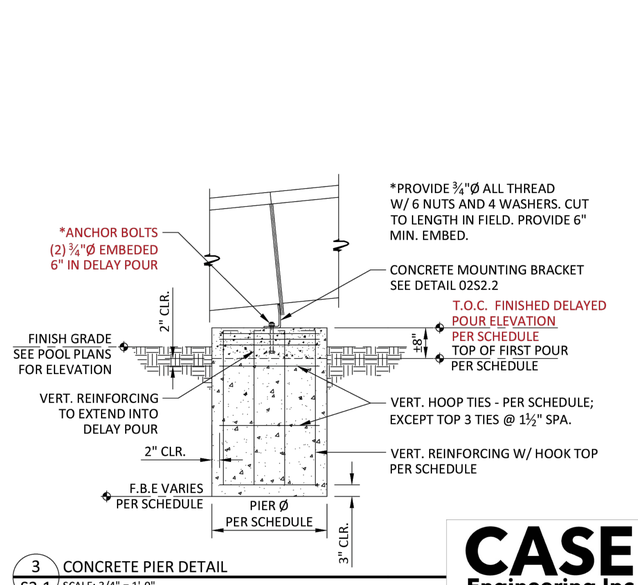
NOTES:
1. COORDINATE CONCRETE PAD W/ SITE CONCRETE (NOT BY SPLASHTACULAR)
2. F.B.E. = FOOTING BEARING ELEVATION
3. T.O.C. = TOP OF CONCRETE PEDESTAL ELEVATION
4. O.C. = ON CENTER
5. PROVIDE DELAY POUR.



1 S2.1 SPREAD FOOTING DETAIL
SCALE: 3/4" = 1'-0"



2 S2.1 PIER ON SPREAD FOOTING DETAIL
SCALE: 3/4" = 1'-0"



3 S2.1 CONCRETE PIER DETAIL
SCALE: 3/4" = 1'-0"

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MARK	DATE		APPROVED
1	05/16/2025	ISSUED FOR APPROVAL	
2	08/04/2025	ISSUED FOR APPROVAL - REVISE & RESUBMIT 1	
3			
4			
5			

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REGISTERED PROFESSIONAL ENGINEER — KEVIN T. LAWENDOWSKI — No. 72559 — EXP. 06/30/26 — CIVIL — STATE OF CALIFORNIA — 08/11/25

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TITLE: FOUNDATION SCHEDULE & DETAILS
PROJECT: TRANQUILITY HS
DATE: 03/26/2025 | PROJECT NUMBER: 12125 | COUNTRY: USA
SCALE: AS NOTED | DESIGNER: DAR | STATE: CALIFORNIA
CHECKED: RRR | APPROVED: RRR | CITY: TRANQUILITY

S2.1

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APP: 02-123309 INC: 1
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SS ☑ FLS ☑ ACS ☑
DATE: 9/30/2025

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PROJECT
TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT
GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

CASE Engineering Inc.
796 Merus Court
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F 636.349.1730

SHEET TITLE
FOUNDATION SCHEDULE & DETAILS

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

DATE: 9/24/2025
TECHNICIAN:
PROJECT MANAGER:
JOB NUMBER: 791
SHEET NUMBER
WS1.4-1

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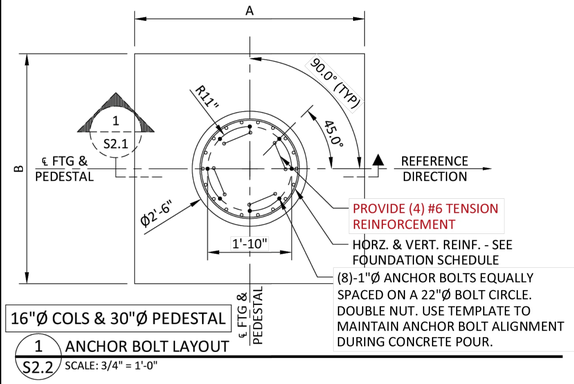
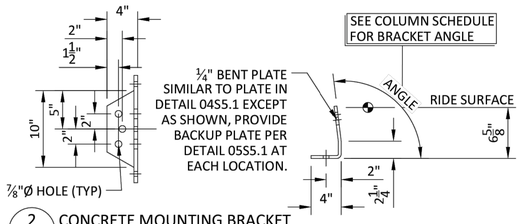
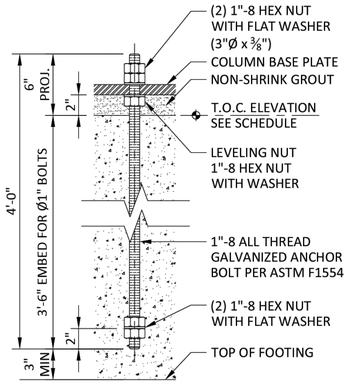


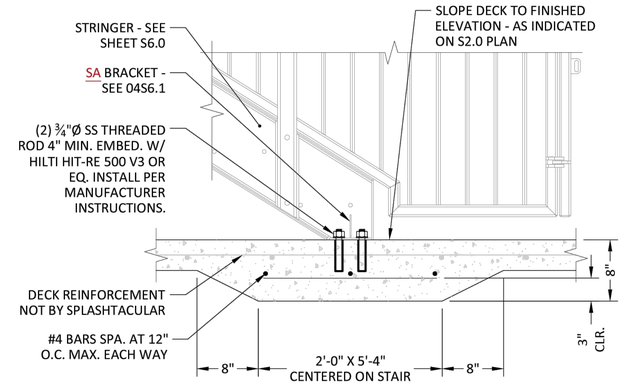
1 S2.2 ANCHOR BOLT LAYOUT
SCALE: 3/4" = 1'-0"



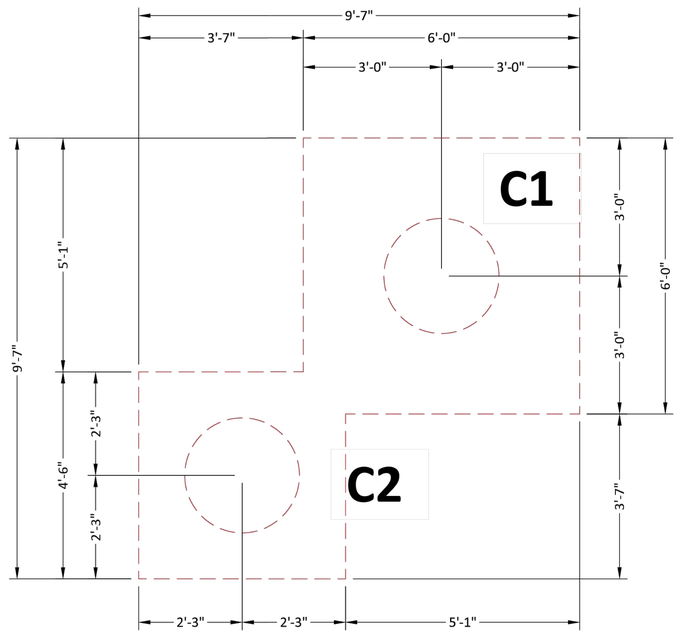
2 S2.2 CONCRETE MOUNTING BRACKET
SCALE: 1-1/2" = 1'-0"



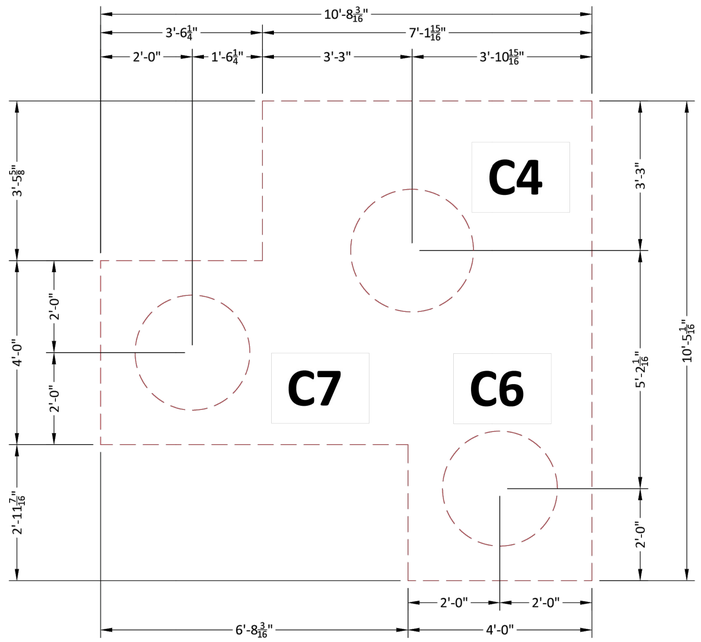
3 S2.2 ANCHOR BOLT DETAIL
SCALE: 2" = 1'-0"



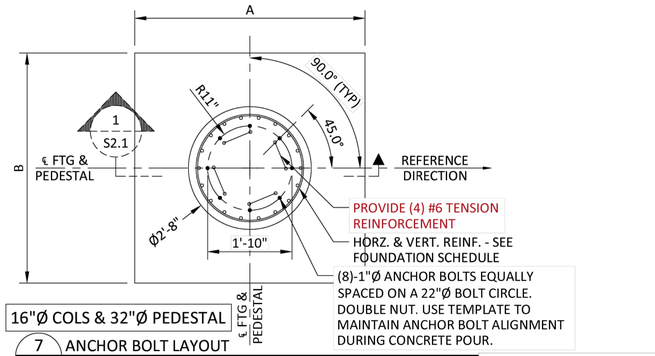
4 S2.2 STAIR STRINGER TO DECK CONNECTION DETAIL
SCALE: 1-1/2" = 1'-0"



5 S2.2 COMBINED FOOTING DETAIL
SCALE: 1-1/2" = 1'-0"



6 S2.2 COMBINED FOOTING DETAIL
SCALE: 1-1/2" = 1'-0"



7 S2.2 ANCHOR BOLT LAYOUT
SCALE: 3/4" = 1'-0"

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MARK	DATE		APPROVED
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2	08/04/2025	ISSUED FOR APPROVAL - REVISE & RESUBMIT 1	

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REGISTERED PROFESSIONAL ENGINEER — ROBERT R. MCLELLAND — 72339 — EXP. 06/30/26 — CIVIL — STATE OF CALIFORNIA
08/11/25

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TITLE: FOUNDATION DETAILS
PROJECT: TRANQUILITY HS

DATE: 03/26/2025	PROJECT NUMBER: 12125	COUNTRY: USA
SCALE: AS NOTED	DESIGNER: DAR	STATE: CALIFORNIA
CHECKED: RRR	APPROVED: RRR	CITY: TRANQUILITY

S2.2

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DATE: 9/30/2025

AGD ARCHITECTURE | DESIGN
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LICENSED ARCHITECT — JAMES P. McCLELLAND — C-21797 — 07/31/2027 — STATE OF CALIFORNIA

PROJECT
TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT
GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE
FOUNDATION DETAILS

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

DATE: 9/24/2025
TECHNICIAN:
PROJECT MANAGER:
JOB NUMBER: 791
SHEET NUMBER
WS1.5-1

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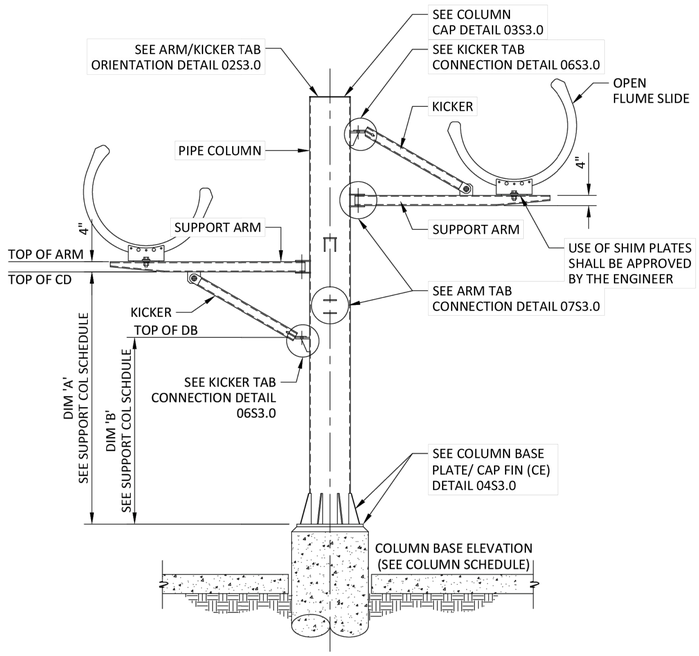
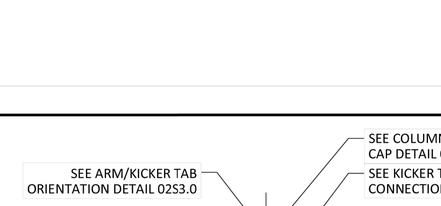
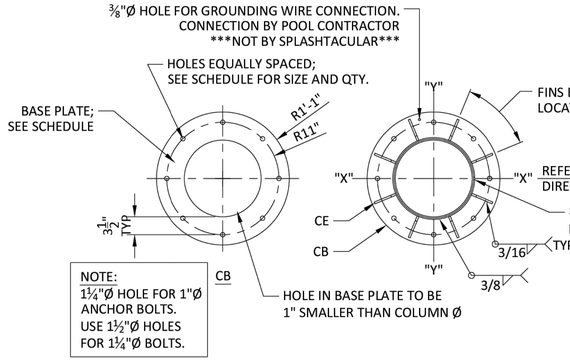


1 S3.0 TYPICAL COLUMN/ARM ARRANGEMENT DETAIL
SCALE: 1/2" = 1'-0"

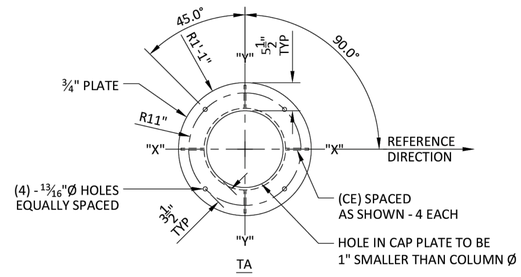


2 S3.0 ARM/KICKER TAB ORIENTATION DETAIL
SCALE: 1" = 1'-0"

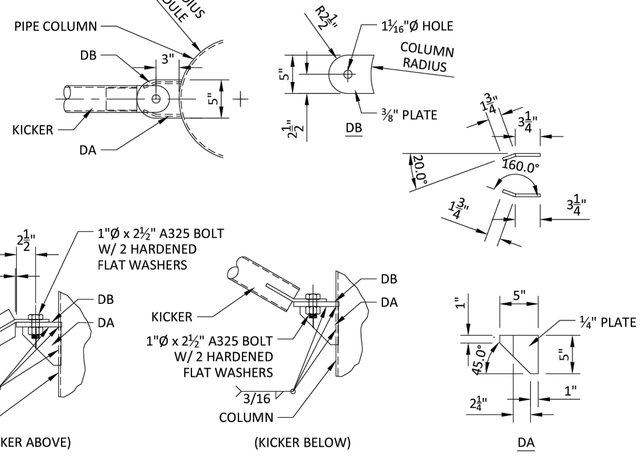
3 S3.0 COLUMN CAP PLATE DETAIL
SCALE: 1" = 1'-0"



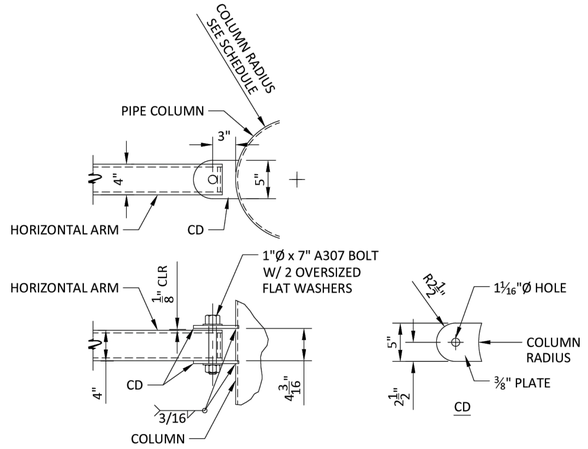
4 S3.0 COLUMN BASE PLATE DETAIL
SCALE: 1" = 1'-0"



5 S3.0 PLATFORM COLUMN CAP PLATE DETAIL
SCALE: 1" = 1'-0"



6 S3.0 KICKER TAB CONNECTION DETAILS
SCALE: 1 1/2" = 1'-0"



7 S3.0 ARM TAB CONNECTION DETAILS
SCALE: 1 1/2" = 1'-0"

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REGISTERED PROFESSIONAL ENGINEER — RYAN R. RUMPLER — EXP. 06/30/26 — CIVIL — STATE OF CALIFORNIA
08/11/25

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TITLE: COLUMN DETAILS
PROJECT: TRANQUILITY HS
DATE: 03/26/2025 | PROJECT NUMBER: 12125 | COUNTRY: USA
SCALE: AS NOTED | DESIGNER: DAR | STATE: CALIFORNIA
CHECKED: RRR | APPROVED: RRR | CITY: TRANQUILITY

S3.0

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DATE: 9/30/2025

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PROJECT
TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT
GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE
COLUMN DETAILS

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

DATE: 9/24/2025
TECHNICIAN:
PROJECT MANAGER:
JOB NUMBER: 791
SHEET NUMBER
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SUPPORT COLUMN SCHEDULE

Col No.	Column Type	Detail	Column Elev	Column Size (Dim x Wall)	Pedestal (Dia)	Base Plate (Thick x Dim)	Anchor Bolts			X Coord	Y Coord	Bracket Height	Bracket Angle	Column Supports
							Dia	Embed	Qty					
C1	Steel Monopole	01S4.1	119.115'	16"Ø x 1/4"	30"Ø	1" x 26"Ø	1"	42"	8	17.986'	-24.407'	-	-	TW1
C2	Steel Monopole	02S4.1	119.115'	16"Ø x 1/4"	30"Ø	1" x 26"Ø	1"	42"	8	13.653'	-28.740'	-	-	TW1
C3	Steel Monopole	03S4.1	109.198'	16"Ø x 1/4"	30"Ø	1" x 26"Ø	1"	42"	8	-5.389'	-28.823'	-	-	TW18
C4	Steel Radial Arm	04S4.1	120.018'	16"Ø x 1/4"	32"Ø	1" x 26"Ø	1"	42"	8	23.290'	-14.104'	-	-	AA23, AA3, AA25, AA9, AA5, AA7, AA11
C5	Steel Radial Arm	01S4.2	113.012'	16"Ø x 1/4"	30"Ø	1" x 26"Ø	1"	42"	8	5.213'	-13.858'	-	-	AA17, AA19, AA21, AA13, AA15
C6	Concrete Monopole	02S2.1	102.270'	30"Ø	-	-	-	-	-	25.202'	-19.277'	6.625	98.32°	A27
C7	Concrete Monopole	02S2.1	101.121'	30"Ø	-	-	-	-	-	18.519'	-16.322'	6.625	98.32°	A29
C8	Concrete Monopole	03S2.1	100.152'	30"Ø	-	-	-	-	-	17.250'	-9.403'	6.625	94.00°	A31

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REGISTERED PROFESSIONAL ENGINEER — RANDALL R. LINEBERGER — No. 72338 — EXP. 06/30/26 — CIVIL — STATE OF CALIFORNIA

08/11/25

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TITLE: COLUMN LAYOUT SCHEDULE			
PROJECT: TRANQUILITY HS			
DATE: 03/26/2025	PROJECT NUMBER: 12125	COUNTRY: USA	
SCALE: NTS	DESIGNER: DAR	STATE: CALIFORNIA	
CHECKED: RRR	APPROVED: RRR	CITY: TRANQUILITY	

S4.0

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SS ☑ FLS ☑ ACS ☑
DATE: 9/30/2025

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LICENSED ARCHITECT — JAMES P. McCLELLAND — C-21797 — 07/31/2027 — STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

COLUMN LAYOUT SCHEDULE

PHASE DESCRIPTION
100% CD - DSA APPROVAL
INCREMENT 1

DATE: 9/24/2025
TECHNICIAN:
PROJECT MANAGER:
JOB NUMBER: 791

SHEET NUMBER
WS1.7-1

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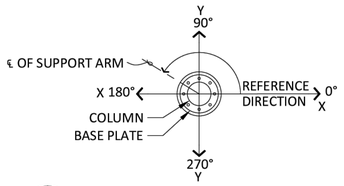

10 / S4.1 SUPPORT ARM/AXIS ORIENTATION

SCALE: 1/2" = 1'-0"

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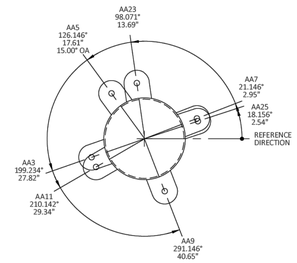
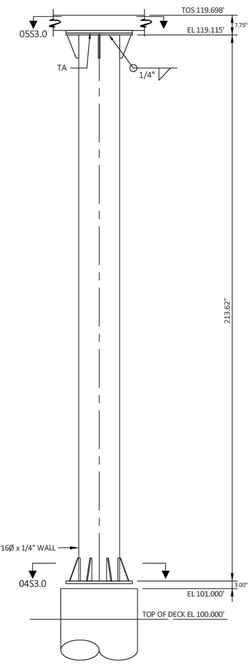
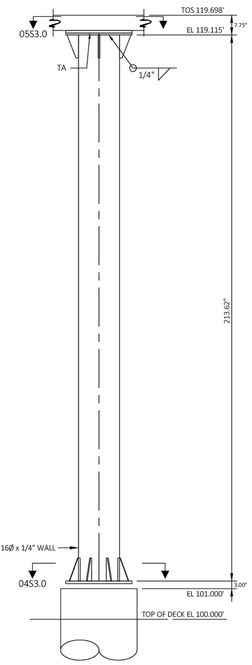




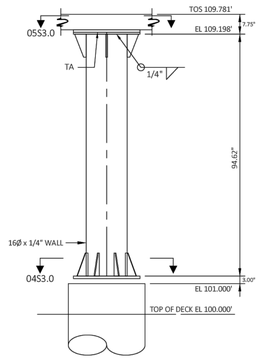
COLUMN C1 1 / S4.1

1/2" = 1'-0"



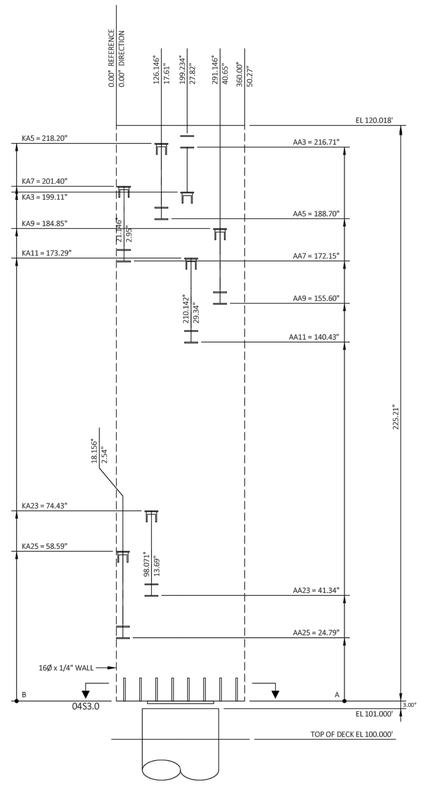
COLUMN C2 2 / S4.1

1/2" = 1'-0"



COLUMN C3 3 / S4.1

1/2" = 1'-0"



COLUMN C4 4 / S4.1

1/2" = 1'-0"

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2	08/04/2025	ISSUED FOR APPROVAL - REVISE & RESUBMIT 1	

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REGISTERED PROFESSIONAL ENGINEER — CHRISTOPHER T. LAWLESS — 72339 — EXP. 06/30/26 — CIVIL — STATE OF CALIFORNIA

08/11/25

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TITLE: COLUMN DETAILS
PROJECT: TRANQUILITY HS
DATE: 03/26/2025 | PROJECT NUMBER: 12125 | COUNTRY: USA
SCALE: AS NOTED | DESIGNER: DAR | STATE: CALIFORNIA
CHECKED: RRR | APPROVED: RRR | CITY: TRANQUILITY

S4.1

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LICENSED ARCHITECT — JAMES P. McCLELLAND — C-21797 — 07/31/2027 — STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

COLUMN DETAILS

PHASE DESCRIPTION
100% CD - DSA APPROVAL
INCREMENT 1

DATE: 9/24/2025

TECHNICIAN:

PROJECT MANAGER:

JOB NUMBER: 791

SHEET NUMBER
WS1.8-1

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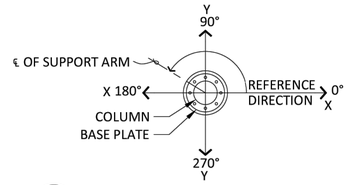
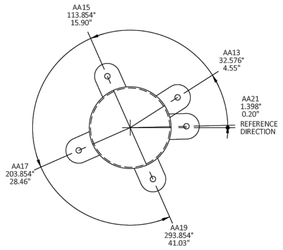
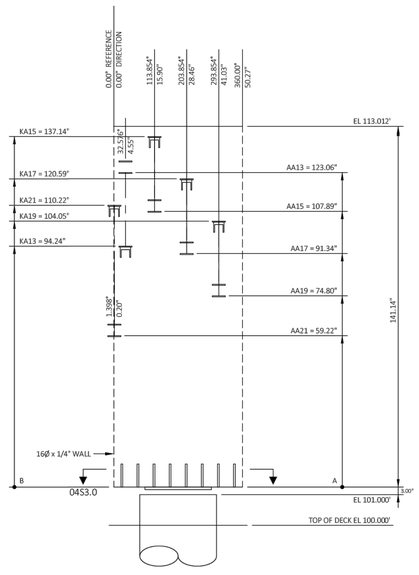


10 / S4.2 SUPPORT ARM/AXIS ORIENTATION

SCALE: 1/2" = 1'-0"





COLUMN C5 / 1 / S4.2

1/2" = 1'-0"

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REGISTERED PROFESSIONAL ENGINEER — ROBERT A. LAWENTZ — 72538 — Exp. 06/30/26 — STATE OF CALIFORNIA — CIVIL

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TITLE: COLUMN DETAILS			
PROJECT: TRANQUILITY HS			
DATE: 03/26/2025	PROJECT NUMBER: 12125	COUNTRY: USA	
SCALE: AS NOTED	DESIGNER: DAR	STATE: CALIFORNIA	
CHECKED: RRR	APPROVED: RRR	CITY: TRANQUILITY	

S4.2

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PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

COLUMN DETAILS

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

DATE: 9/24/2025
TECHNICIAN:
PROJECT MANAGER:
JOB NUMBER: 791

SHEET NUMBER
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SUPPORT ARM SCHEDULE FOR SLIDE-A

Arm No.	Arm Type	Detail	Elevation	Bearing	Off-Axis	Arm Length	Radius Length	H-Distance	T-Distance	Bolt to Bolt Length	Vertical Offset	Kicker Number	K Position	K Length	K Angle	Bracket Height	Bracket Angle	Arm Note
AA3	Side Mount Arm	02/WS1.11-1	119.476'	199.23°	0.00°	35.04"	52.54"	29.54"	13.25"	28.29"	-	KA3	Kicker - Below (Tube)	27.28"	30.00°	-	98.32°	-
AA5	Typical Arm	01/WS1.11-1	117.308'	108.49°	15.00°	76.71"	72.46"	43.96"	18.75"	42.71"	-	KA5	Kicker - Above (Plate)	48.18"	30.00°	6.63"	98.32°	-
AA7	Typical Arm	01/WS1.11-1	115.929'	21.15°	0.00°	76.27"	72.02"	43.52"	18.75"	42.27"	-	KA7	Kicker - Above (Plate)	47.67"	30.00°	6.63"	98.32°	-
AA9	Typical Arm	01/WS1.11-1	114.550'	291.15°	0.00°	76.27"	72.02"	43.52"	18.75"	42.27"	-	KA9	Kicker - Above (Plate)	47.67"	30.00°	6.63"	98.32°	-
AA11	Typical Arm	01/WS1.11-1	113.286'	210.14°	0.00°	82.52"	78.27"	49.77"	18.75"	48.52"	-	KA11	Kicker - Above (Plate)	54.89"	30.00°	6.63"	98.32°	-
AA13	Typical Arm	0255.1	111.839'	32.58°	0.00°	81.72"	77.47"	48.97"	18.75"	47.72"	-	KA13	Kicker - Below (Tube)	49.71"	30.00°	6.63"	98.32°	-
AA15	Typical Arm	01/WS1.11-1	110.574'	113.85°	0.00°	76.27"	72.02"	43.52"	18.75"	42.27"	-	KA15	Kicker - Above (Plate)	47.67"	30.00°	6.63"	98.32°	-
AA17	Typical Arm	01/WS1.11-1	109.195'	203.85°	0.00°	76.27"	72.02"	43.52"	18.75"	42.27"	-	KA17	Kicker - Above (Plate)	47.67"	30.00°	6.63"	98.32°	-
AA19	Typical Arm	01/WS1.11-1	107.816'	293.85°	0.00°	76.27"	72.02"	43.52"	18.75"	42.27"	-	KA19	Kicker - Above (Plate)	47.67"	30.00°	6.63"	98.32°	-
AA21	Typical Arm	01/WS1.11-1	106.518'	1.40°	0.00°	113.95"	109.70"	81.20"	18.75"	79.95"	-	KA21	Kicker - Above (Plate)	91.18"	30.00°	6.63"	98.32°	-
AA23	Typical Arm	01/WS1.11-1	105.028'	98.07°	0.00°	82.93"	78.68"	50.18"	18.75"	48.93"	-	KA23	Kicker - Above (Plate)	55.36"	30.00°	6.63"	98.32°	-
AA25	Typical Arm	01/WS1.11-1	103.649'	18.16°	0.00°	84.16"	79.91"	51.41"	18.75"	50.16"	-	KA25	Kicker - Above (Plate)	56.78"	30.00°	6.63"	98.32°	-

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TITLE: ARM SCHEDULE
PROJECT: TRANQUILITY HS
DATE: 03/26/2025 | PROJECT NUMBER: 12125 | COUNTRY: USA
SCALE: NTS | DESIGNER: DAR | STATE: CALIFORNIA
CHECKED: RRR | APPROVED: RRR | CITY: TRANQUILITY

S5.0

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SHEET TITLE

ARM SCHEDULE

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

DATE: 9/24/2025
TECHNICIAN:
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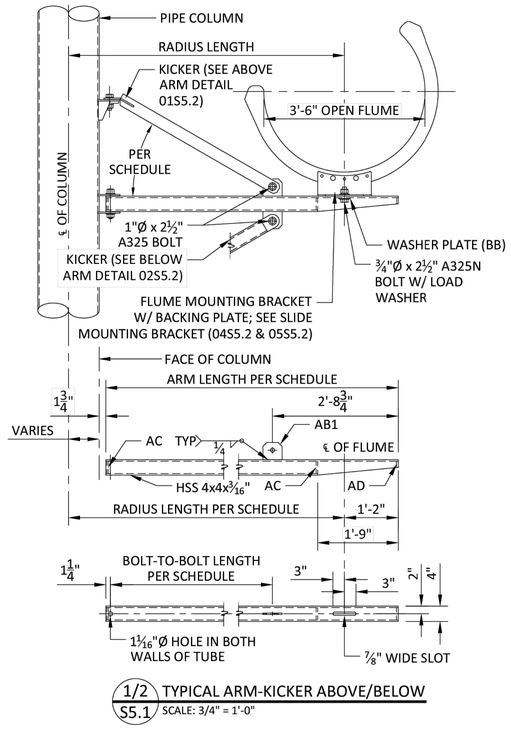

1/2 S5.1 TYPICAL ARM-KICKER ABOVE/BELOW
SCALE: 3/4" = 1'-0"

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PROJECT: TRANQUILITY HS
DATE: 03/26/2025 | PROJECT NUMBER: 12125 | COUNTRY: USA
SCALE: AS NOTED | DESIGNER: DAR | STATE: CALIFORNIA
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PHASE DESCRIPTION
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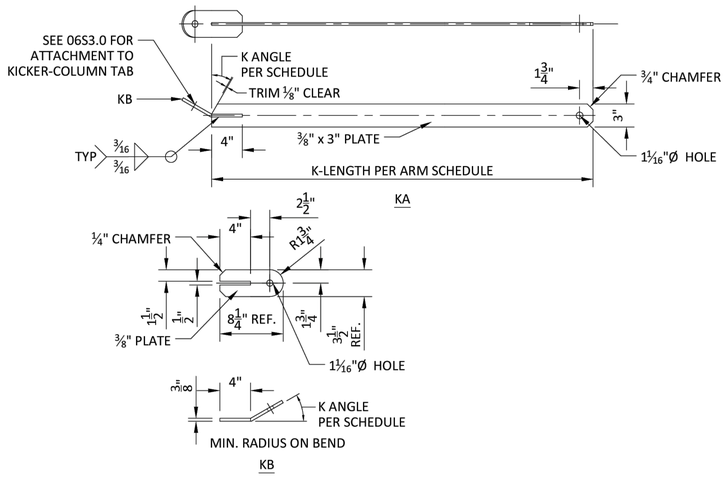
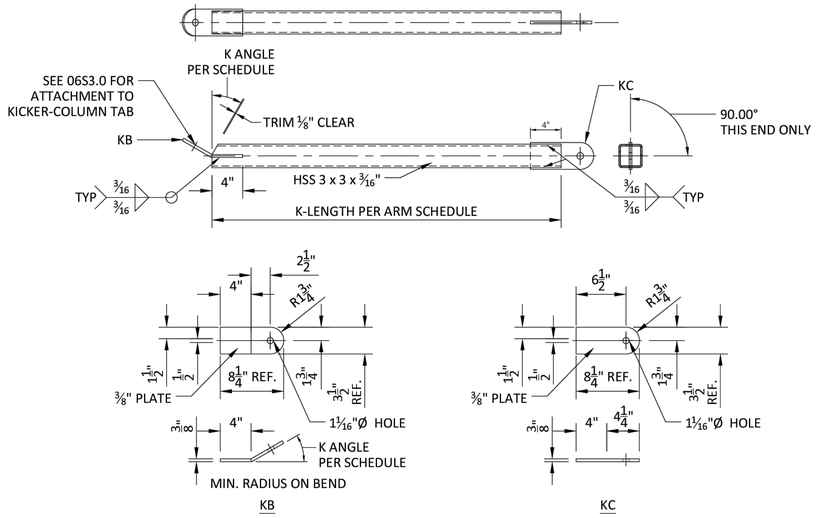
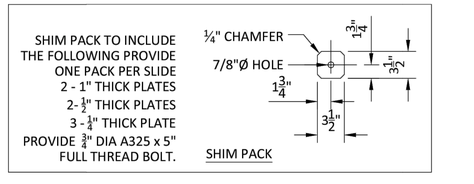
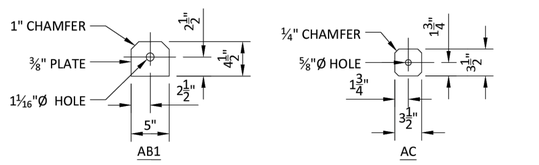


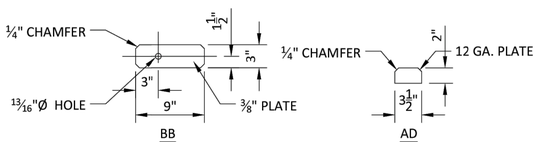
1 S5.2 ARM-ABOVE KICKER DETAIL
SCALE: 1-1/2" = 1'-0"



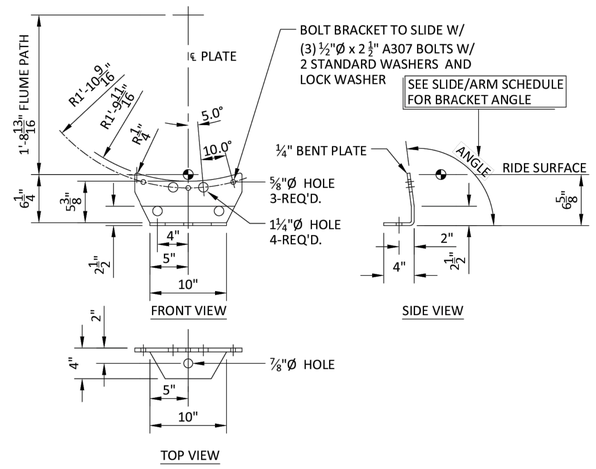
2 S5.2 ARM-BELOW KICKER DETAIL
SCALE: 1-1/2" = 1'-0"



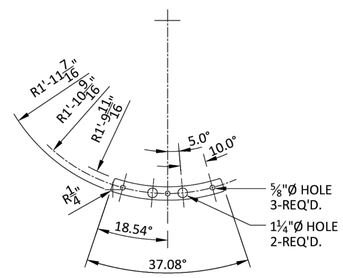




3 S5.2 ARM TAB CONNECTION DETAILS
SCALE: 1-1/2" = 1'-0"



4 S5.2 SLIDE MOUNTING BRACKET
SCALE: 1-1/2" = 1'-0"



5 S5.2 SLIDE MOUNTING BACKING PLATE
SCALE: 1-1/2" = 1'-0"

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1	05/16/2025	ISSUED FOR APPROVAL	
2	08/04/2025	ISSUED FOR APPROVAL - REVISE & RESUBMIT 1	
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08/11/25

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TITLE: SUPPORT ARM DETAILS
PROJECT: TRANQUILITY HS
DATE: 03/26/2025 | PROJECT NUMBER: 12125 | COUNTRY: USA
SCALE: AS NOTED | DESIGNER: DAR | STATE: CALIFORNIA
CHECKED: RRR | APPROVED: RRR | CITY: TRANQUILITY

S5.2

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DATE: 9/30/2025

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C-21797
07/31/2027
STATE OF CALIFORNIA

PROJECT
TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
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CLIENT
GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

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SHEET TITLE
SUPPORT ARM DETAILS

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

DATE: 9/24/2025
TECHNICIAN:
PROJECT MANAGER:
JOB NUMBER: 791
SHEET NUMBER
WS1.12-1

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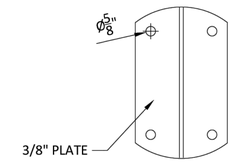
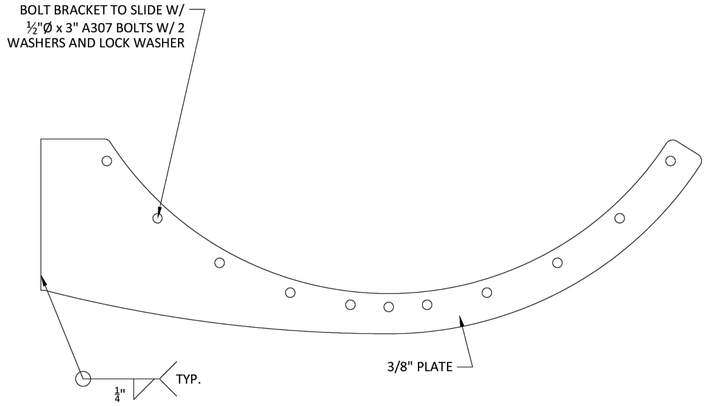
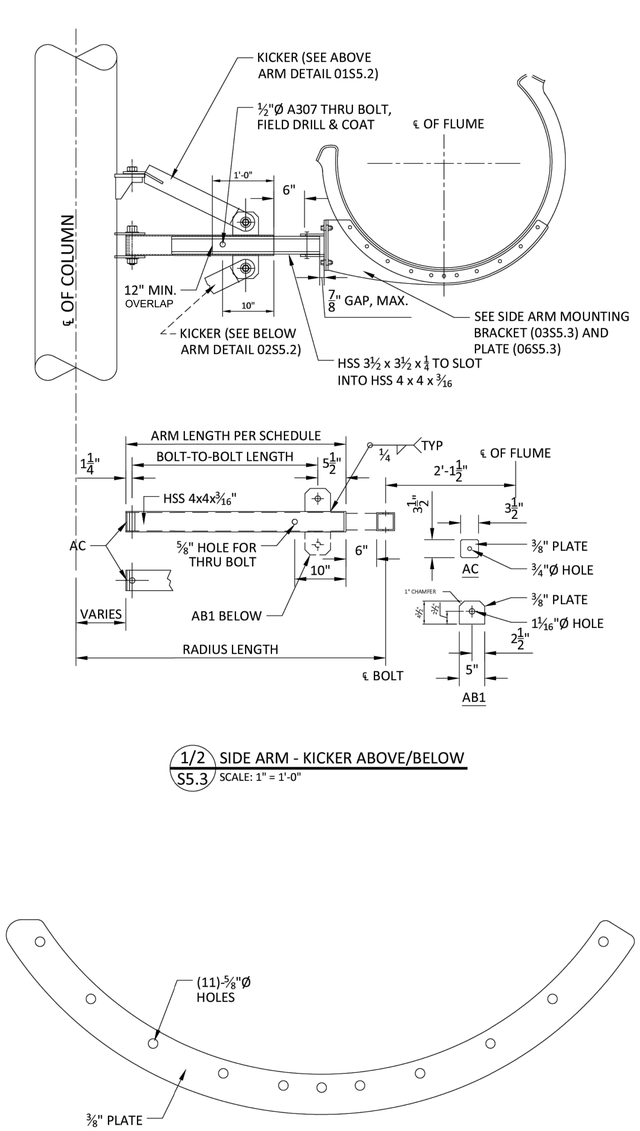
1/2 S5.3 SIDE ARM - KICKER ABOVE/BELOW
SCALE: 1" = 1'-0"



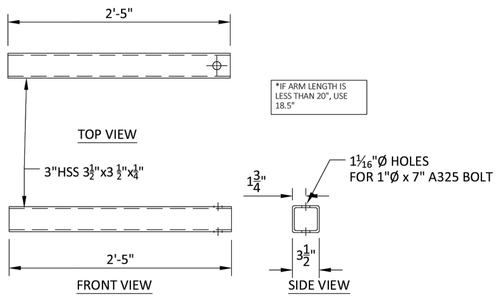
NOTE:
FIELD-BOLT MOUNTING PLATE TO BRACKET W/ (4)-½"Ø x 2½" A325 BOLTS. PROVIDE 5/16" PLATE WASHER OVER SLOTS.



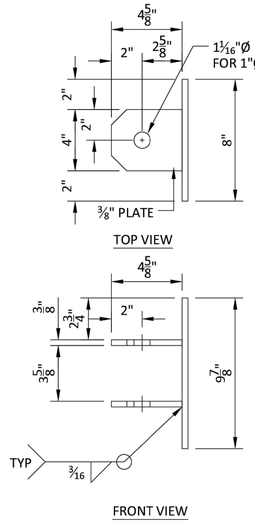
3 S5.3 SIDE ARM MOUNTING BRACKET
SCALE: 3" = 1'-0"

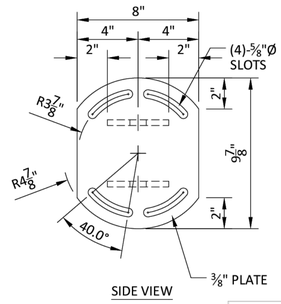


4 S5.3 SIDE ARM BACKING PLATE
SCALE: 3" = 1'-0"



5 S5.3 SIDE ARM PIPE CONNECTION DETAILS
SCALE: 1-1/2" = 1'-0"





NOTE:
FIELD-BOLT MOUNTING PLATE TO BRACKET W/ (4)-½"Ø x 2½" A325 BOLTS. PROVIDE 5/16" PLATE WASHER OVER SLOTS.

6 S5.3 SIDE ARM PIPE CONNECTION PLATE
SCALE: 3" = 1'-0"

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TITLE: SUPPORT ARM DETAILS
PROJECT: TRANQUILITY HS
DATE: 03/26/2025 | PROJECT NUMBER: 12125 | COUNTRY: USA
SCALE: AS NOTED | DESIGNER: DAR | STATE: CALIFORNIA
CHECKED: RRR | APPROVED: RRR | CITY: TRANQUILITY

S5.3

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PROJECT
TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT
GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE
SUPPORT ARM DETAILS

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

DATE: 9/24/2025
TECHNICIAN:
PROJECT MANAGER:
JOB NUMBER: 791
SHEET NUMBER
WS1.13-1

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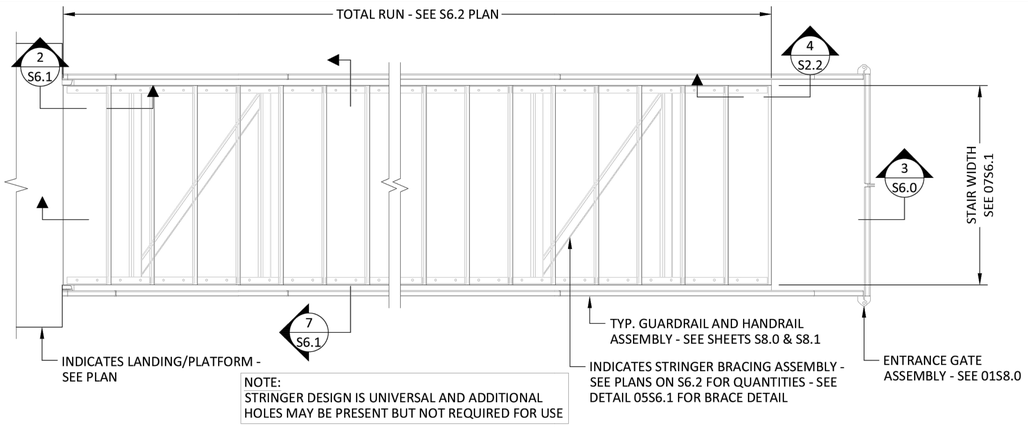
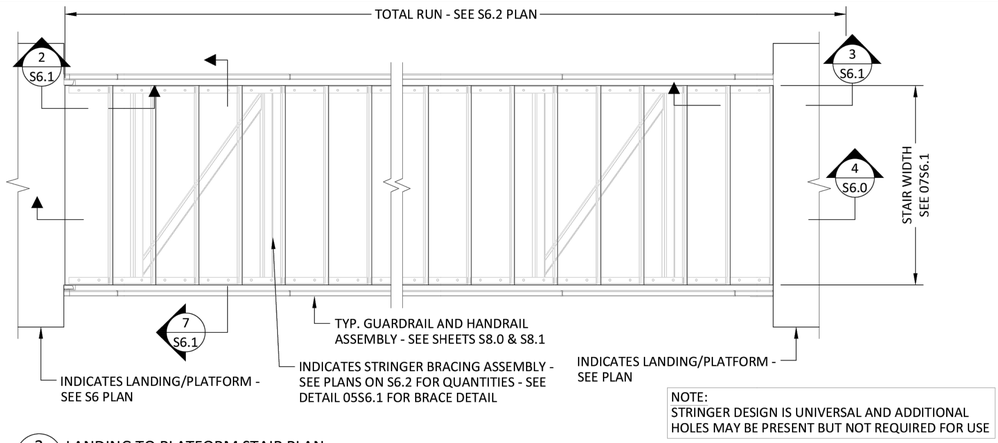
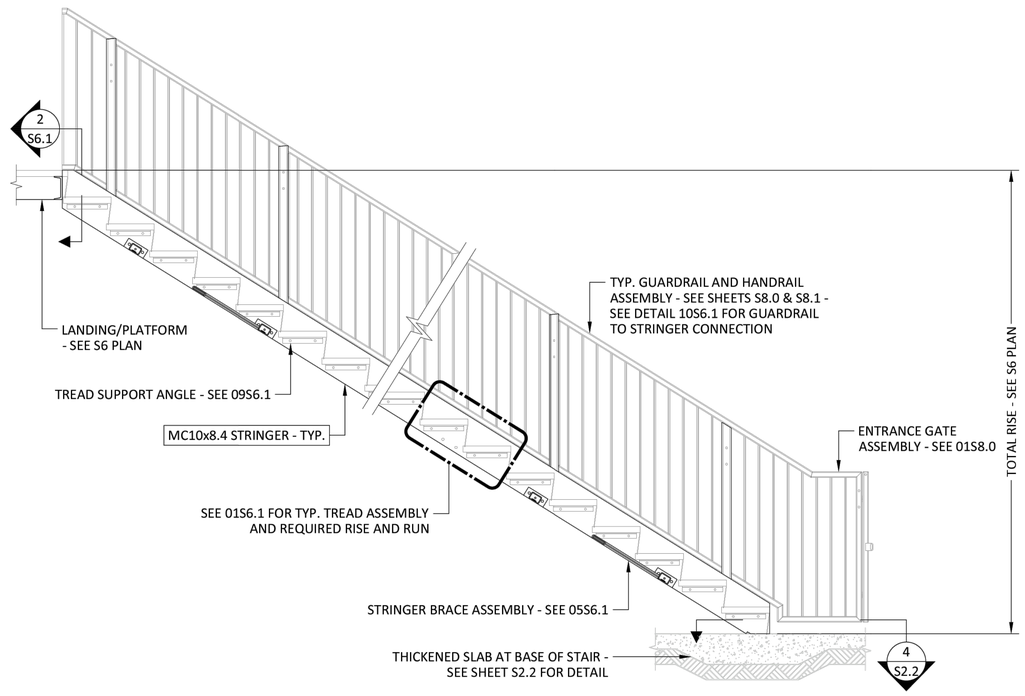


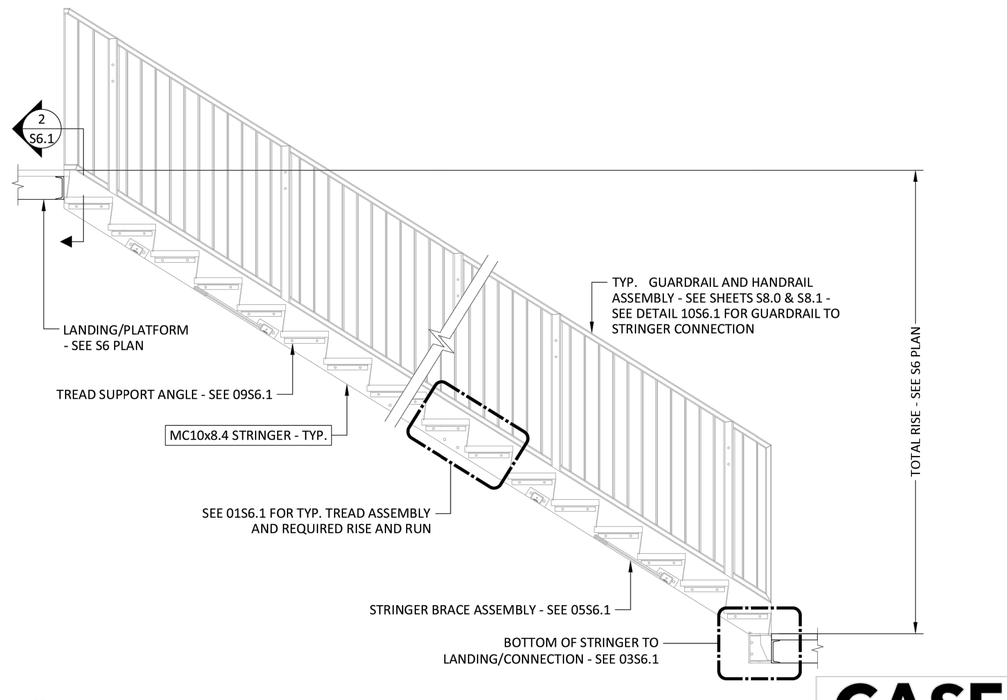
1 S6.0 DECK TO LANDING STAIR PLAN
SCALE: 3/4" = 1'-0"



2 S6.0 LANDING TO PLATFORM STAIR PLAN
SCALE: 3/4" = 1'-0"



3 S6.0 DECK TO LANDING STAIR SECTION
SCALE: 3/4" = 1'-0"



4 S6.0 LANDING TO PLATFORM STAIR SECTION
SCALE: 3/4" = 1'-0"

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REGISTERED PROFESSIONAL ENGINEER - LAWRENCE R. CASE - 12539 - EXP. 06/30/26 - CIVIL - STATE OF CALIFORNIA
08/11/25

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TITLE: TYPICAL STAIR PLANS AND ELEVATIONS			
PROJECT: TRANQUILITY HS			
DATE: 03/26/2025	PROJECT NUMBER: 12125	COUNTRY: USA	
SCALE: AS NOTED	DESIGNER: DAR	STATE: CALIFORNIA	
CHECKED: RRR	APPROVED: RRR	CITY: TRANQULITY	

S6.0

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DATE: 9/30/2025

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6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT
GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE
TYPICAL STAIR PLANS AND ELEVATIONS

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

DATE: 9/24/2025
TECHNICIAN:
PROJECT MANAGER:
JOB NUMBER: 791
SHEET NUMBER
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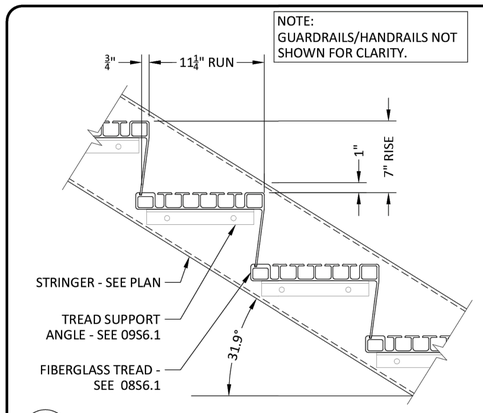
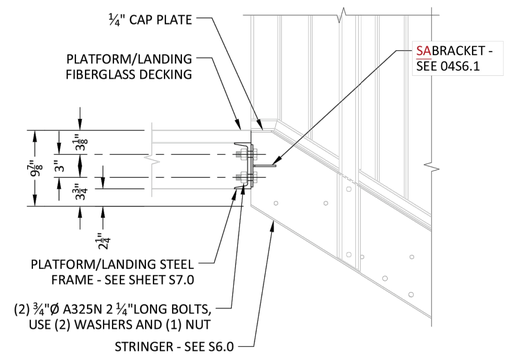
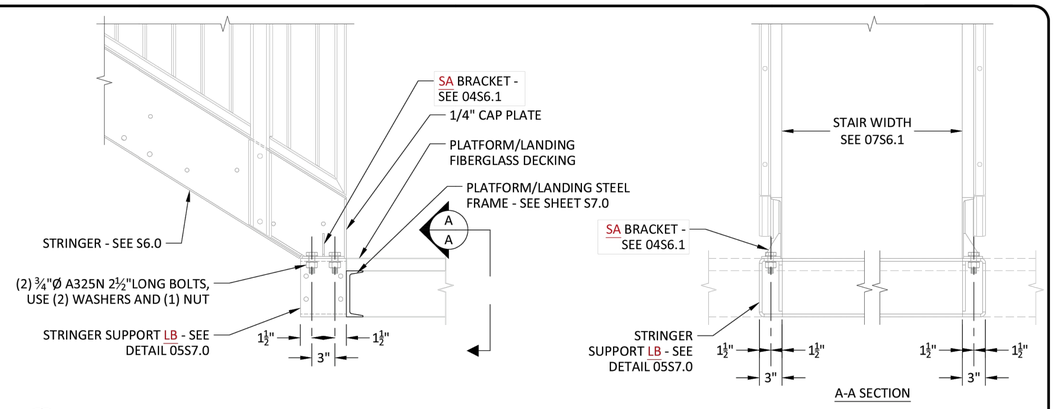


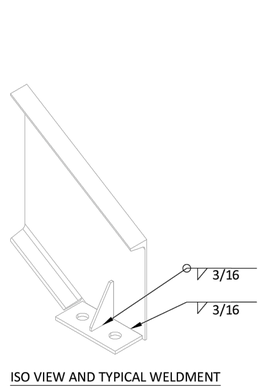
1 S6.1 TYPICAL STAIR TREAD ASSEMBLY DETAIL
SCALE: 2" = 1'-0"



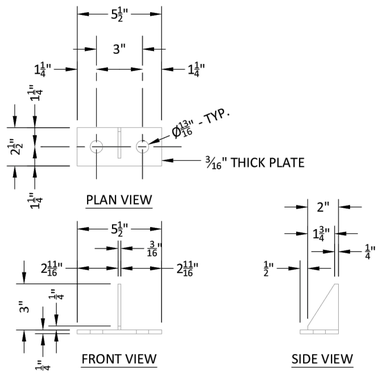
2 S6.1 STRINGER TO LANDING/PLATFORM TOP CONNNECTION
SCALE: 1-1/2" = 1'-0"



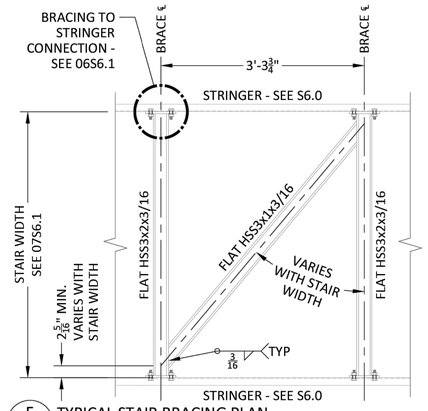
3 S6.1 STRINGER TO LANDING/PLATFORM BOTTOM CONNNECTION
SCALE: 1-1/2" = 1'-0"



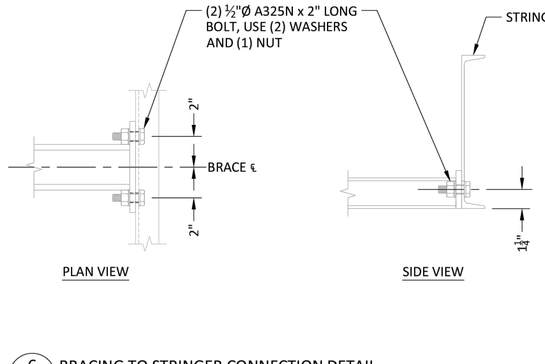
ISO VIEW AND TYPICAL WELDMENT



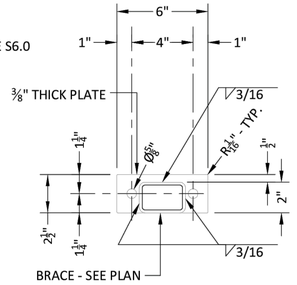
4 S6.1 "SA" STRINGER CONNECTION BRACKET
SCALE: 3" = 1'-0"



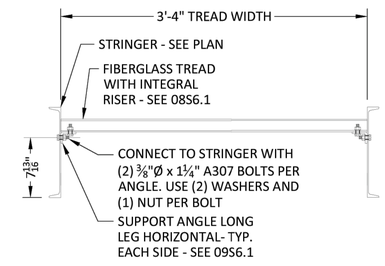
5 S6.1 TYPICAL STAIR BRACING PLAN
SCALE: 1" = 1'-0"



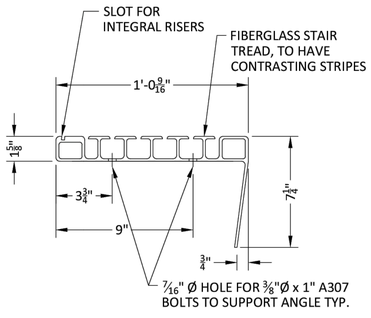
6 S6.1 BRACING TO STRINGER CONNECTION DETAIL
SCALE: 3" = 1'-0"



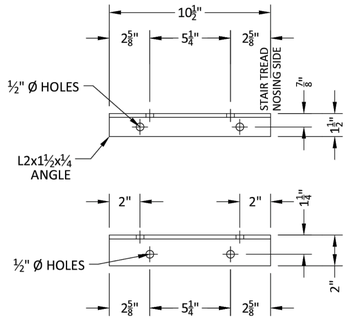
CONNECTION PLATE



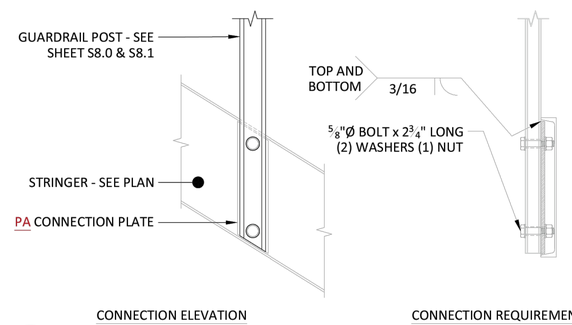
7 S6.1 TYPICAL STAIR WIDTH SECTION
SCALE: 1 1/2" = 1'-0"



8 S6.1 TYPICAL FIBERGLASS TREAD
SCALE: 3" = 1'-0"



9 S6.1 TYPICAL TREAD SUPPORT ANGLE
SCALE: 3" = 1'-0"



10 S6.1 GUARDRAIL TO STRINGER CONNECTION DETAIL
SCALE: 3" = 1'-0"

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TITLE: TYPICAL STAIR SECTIONS AND DETAILS
PROJECT: TRANQUILITY HS

DATE: 03/26/2025	PROJECT NUMBER: 12125	COUNTRY: USA
SCALE: AS NOTED	DESIGNER: DAR	STATE: CALIFORNIA
CHECKED: RRR	APPROVED: RRR	CITY: TRANQUILITY

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PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
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CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

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PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

DATE: 9/24/2025
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SHEET NUMBER
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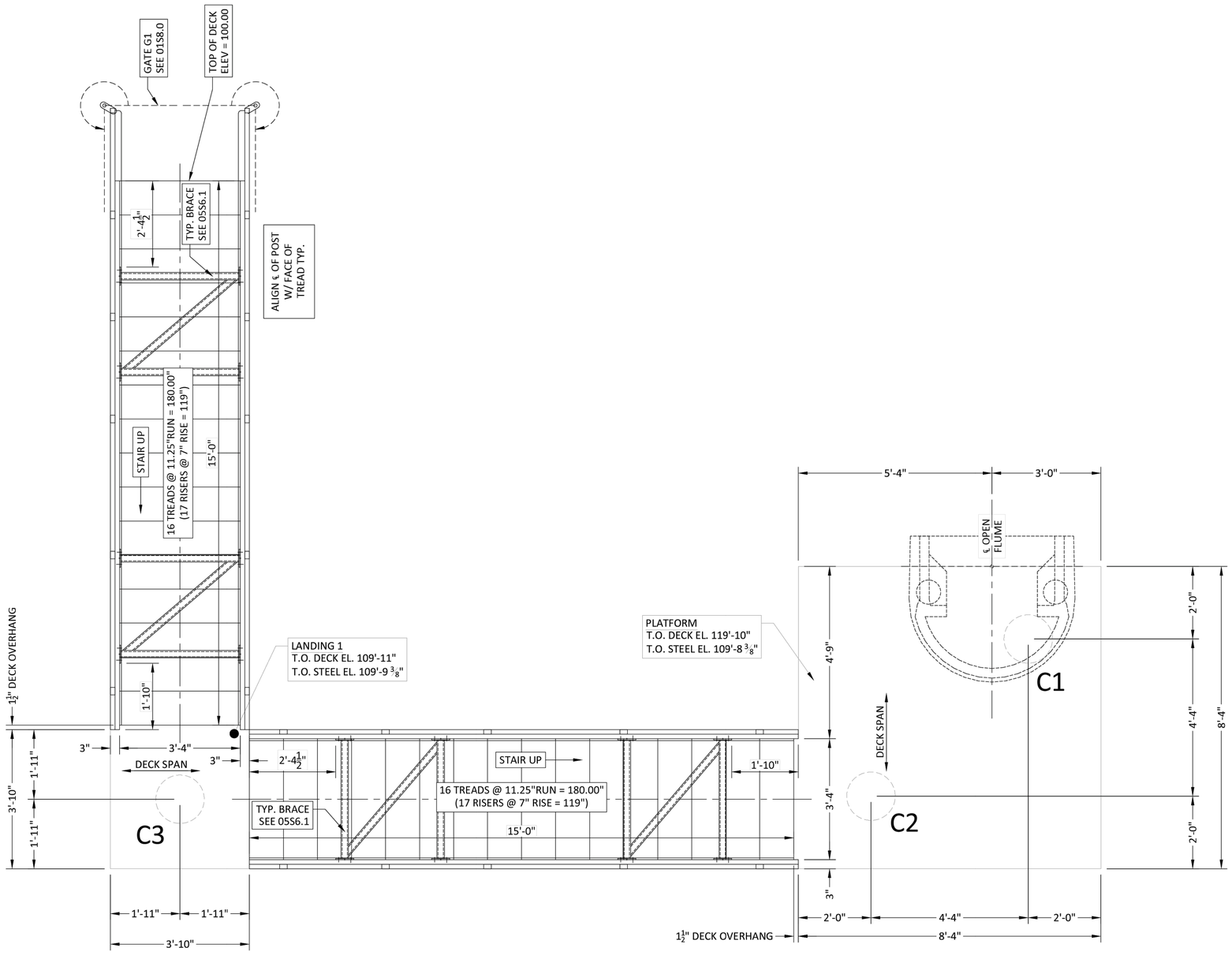

1 / S6.2 STAIR PLAN
SCALE: 3/4" = 1'-0"

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MARK	DATE		APPROVED
△	05/16/2025	ISSUED FOR APPROVAL	
△	08/04/2025	ISSUED FOR APPROVAL - REVISE & RESUBMIT 1	
△			
△			
△			

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REGISTERED PROFESSIONAL ENGINEER
J. LINENFELSER
C-72338
EXP. 06/30/26
CIVIL
STATE OF CALIFORNIA
08/11/25

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TITLE: STAIR PLAN		
PROJECT: TRANQUILITY HS		
DATE: 03/26/2025	PROJECT NUMBER: 12125	COUNTRY: USA
SCALE: AS NOTED	DESIGNER: DAR	STATE: CALIFORNIA
CHECKED: RRR	APPROVED: RRR	CITY: TRANQULITY

S6.2

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DATE: 9/30/2025

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LICENSED ARCHITECT
JAMES P. McCLELLAND
C-21797
07/31/2027
STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
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SHEET TITLE

STAIR PLAN

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

DATE: 9/24/2025

TECHNICIAN:

PROJECT MANAGER:

JOB NUMBER: 791

SHEET NUMBER
WS1.16-1

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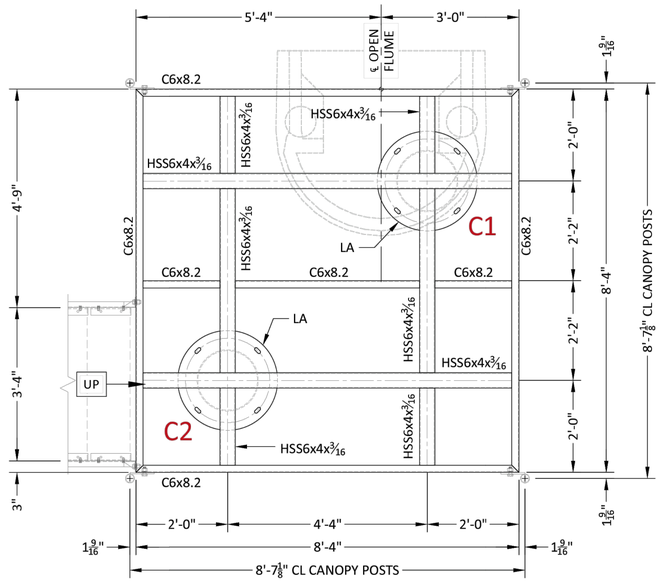
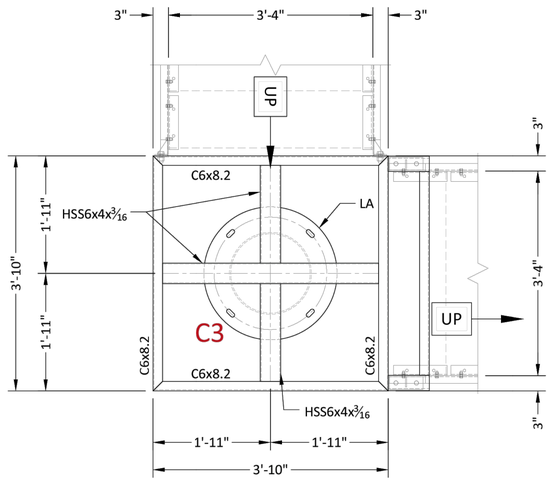
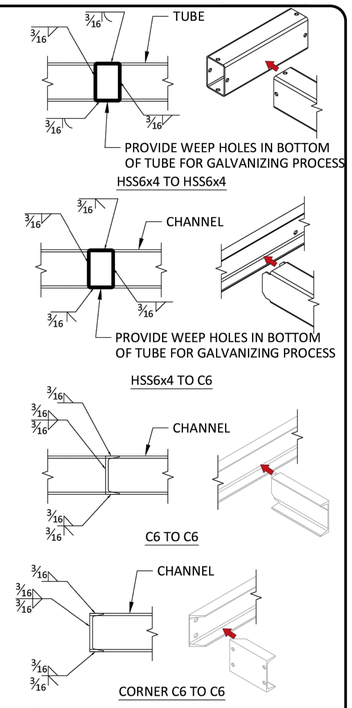


1 TOWER FRAMING PLAN
S7.0 SCALE: 3/4" = 1'-0"

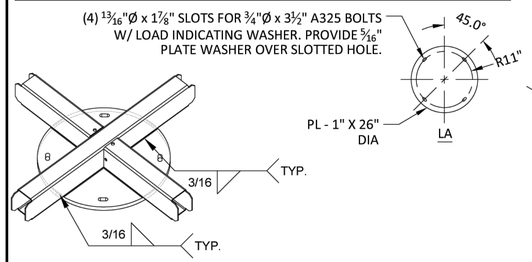


2 LANDING FRAMING PLAN
S7.0 SCALE: 1/2" = 1'-0"

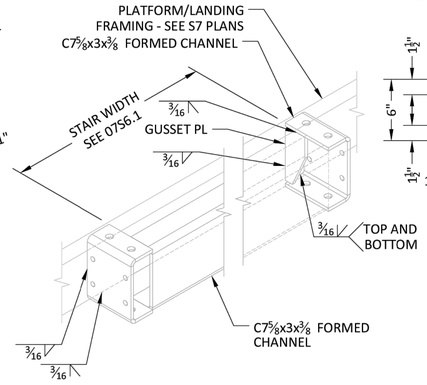


3 TYPICAL FRAMING WELDMENTS
S7.0 SCALE: 1/2" = 1'-0"

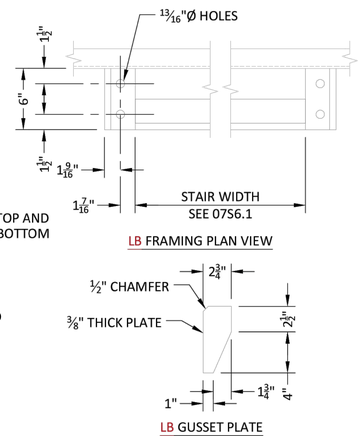
NOTES:
1. CONNECTION, WELD & TYPICAL DETAILS SHOWN ON THIS PLAN APPLY TO ALL LANDINGS & PLATFORMS.
2. FOR GUARDRAIL BOLT HOLES, SEE DETAILS SHEET S8 AND PLANS ON S6.
3. SEE SHEET S4 FOR COLUMNS.



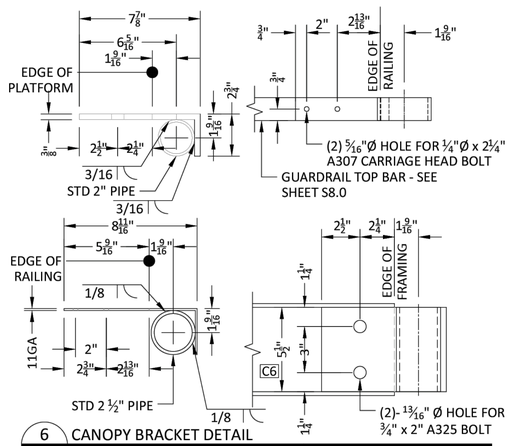
4 "LA" COLUMN CONNECTION PLATE DETAIL
S7.0 SCALE: 1/2" = 1'-0"



5 "LB" STRINGER SUPPORT FRAME
S7.0 SCALE: 2" = 1'-0"



NOTE: REFER TO THE CONTRACT FOR THE INCLUSION OR EXCLUSION OF THE SLIDE CANOPY. ALL EXTERIOR SLIDE TOWERS WILL HAVE THE HOLES DRILLED FOR CANOPY BRACKETS.



6 CANOPY BRACKET DETAIL
S7.0 SCALE: 3" = 1'-0"

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08/11/25

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TITLE: TOWER FRAMING & DETAILS
PROJECT: TRANQUILITY HS

DATE: 03/26/2025	PROJECT NUMBER: 12125	COUNTRY: USA
SCALE: AS NOTED	DESIGNER: DAR	STATE: CALIFORNIA
CHECKED: RRR	APPROVED: RRR	CITY: TRANQUILITY

S7.0

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DATE: 9/30/2025

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LICENSED ARCHITECT — JAMES P. McLELLAND — C-21797 — 07/31/2027 — STATE OF CALIFORNIA

PROJECT
TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT
GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE
TOWER FRAMING & DETAILS

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

DATE: 9/24/2025
TECHNICIAN:
PROJECT MANAGER:
JOB NUMBER: 791

SHEET NUMBER
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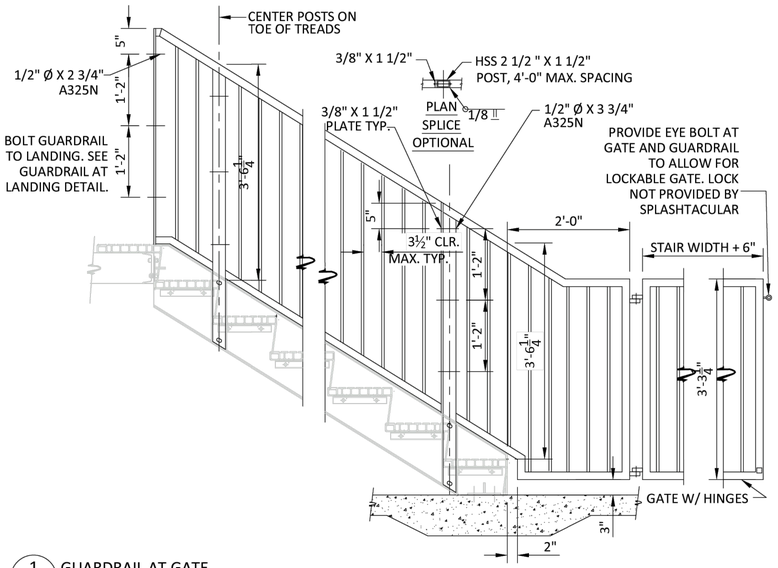
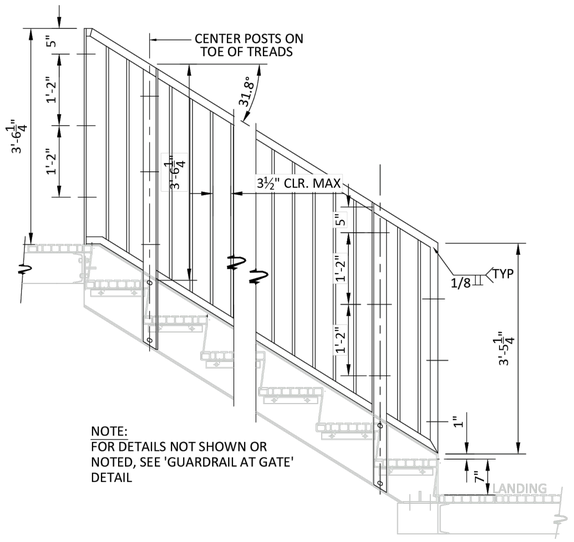
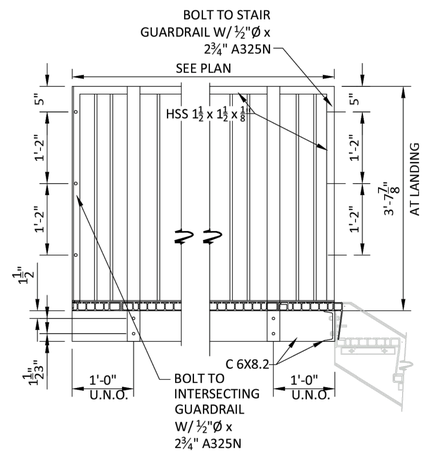


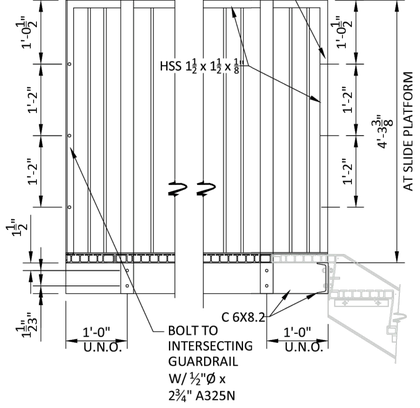
1 S8.0 GUARDRAIL AT GATE
SCALE: 1" = 1'-0"



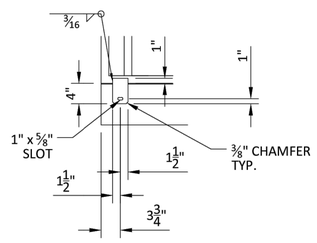
2 S8.0 GUARDRAIL AT STAIRS
SCALE: 1" = 1'-0"



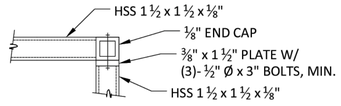
3 S8.0 LANDING GUARDRAIL
SCALE: 1" = 1'-0"



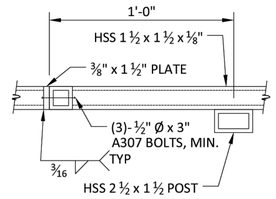
4 S8.0 PLATFORM GUARDRAIL
SCALE: 1" = 1'-0"



5 S8.0 RAILING TAB DETAIL
SCALE: 1" = 1'-0"



6 S8.0 PLAN AT CORNERS
SCALE: 3" = 1'-0"



7 S8.0 OPTIONAL SPLICE
SCALE: 3" = 1'-0"

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TITLE: STAIR & RAILING DETAILS

PROJECT: TRANQUILITY HS			
DATE: 03/26/2025	PROJECT NUMBER: 12125	COUNTRY: USA	
SCALE: AS NOTED	DESIGNER: DAR	STATE: CALIFORNIA	
CHECKED: RRR	APPROVED: RRR	CITY: TRANQUILITY	

S8.0

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F 636.349.1730

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DATE: 9/30/2025

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PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquility, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

STAIR & RAILING DETAILS

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

DATE: 9/24/2025
TECHNICIAN:
PROJECT MANAGER:
JOB NUMBER: 791
SHEET NUMBER
WS1.18-1

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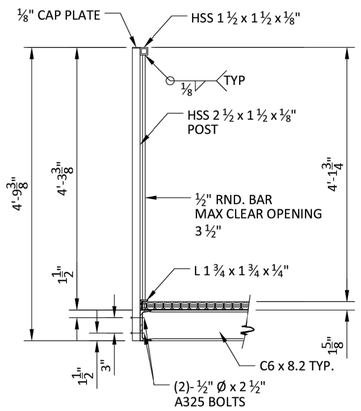
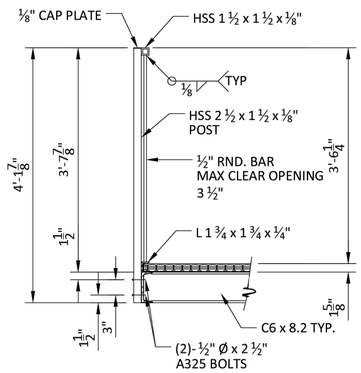
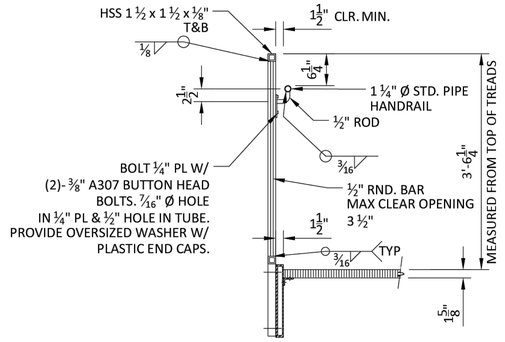


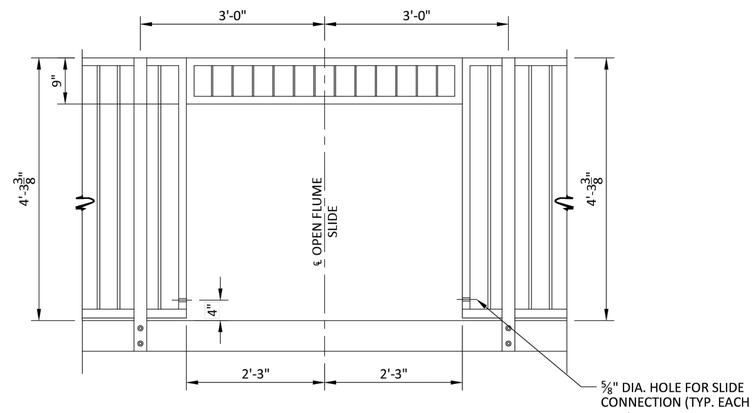
1 S8.1 PLATFORM GUARDRAIL SECTION
SCALE: 1" = 1'-0"



2 S8.1 LANDING GUARDRAIL SECTION
SCALE: 1" = 1'-0"



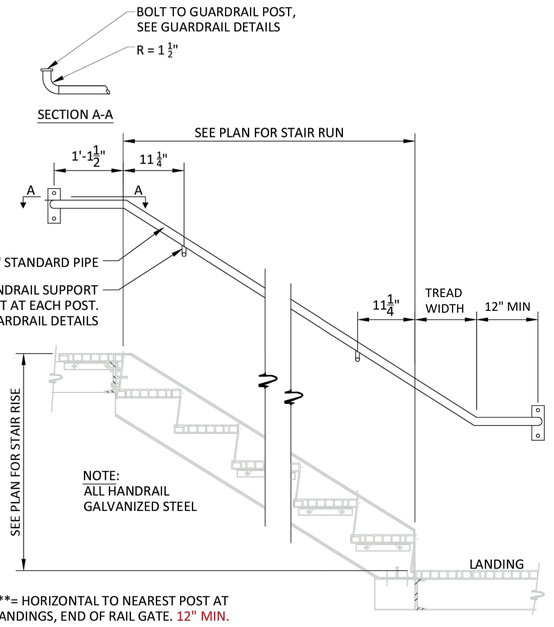
3 S8.1 STAIR GUARDRAIL SECTION
SCALE: 1" = 1'-0"



42" OPEN FLUME
STANDARD PLATFORM

NOTES:
1. VIEWS ARE FROM EXTERIOR OF LANDING.
2. FOR DIMENSIONS NOT SHOWN SEE RAILING DETAILS (THIS SHEET).
3. ADJUST DIMENSION FOR INTERSECTION WITH PERPENDICULAR RAIL.

4 S8.1 GUARDRAIL AT SLIDE OPENINGS
SCALE: 1" = 1'-0"



**= HORIZONTAL TO NEAREST POST AT LANDINGS, END OF RAIL GATE. 12" MIN.

5 S8.1 HANDRAIL DETAILS
SCALE: 1" = 1'-0"

NOTES:
1. DRILL RELIEF HOLES AS REQ'D FOR GALV. PROCESS
2. RAILING SPACING SHOWN FOR REFERENCE QUANTITY ONLY. AS BUILT SPACING MAY VARY FROM SPACING SHOWN NOT TO EXCEED 48".
3. GRIND ALL EDGES SMOOTH

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08/11/25

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TITLE: STAIR & RAILING DETAILS			
PROJECT: TRANQUILITY HS			
DATE: 03/26/2025	PROJECT NUMBER: 12125	COUNTRY: USA	
SCALE: AS NOTED	DESIGNER: DAR	STATE: CALIFORNIA	
CHECKED: RRR	APPROVED: RRR	CITY: TRANQUILITY	

S8.1

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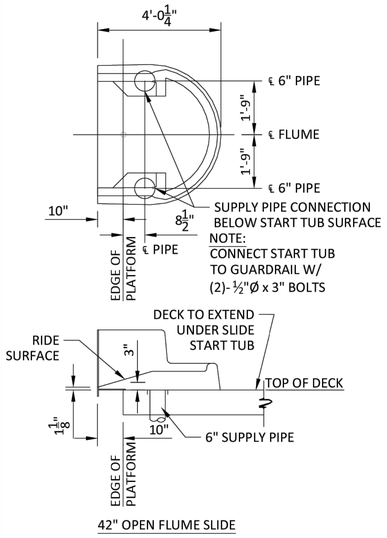
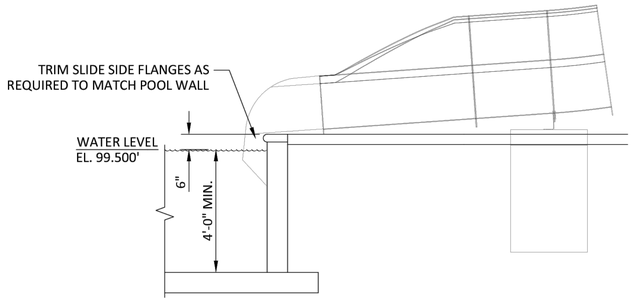
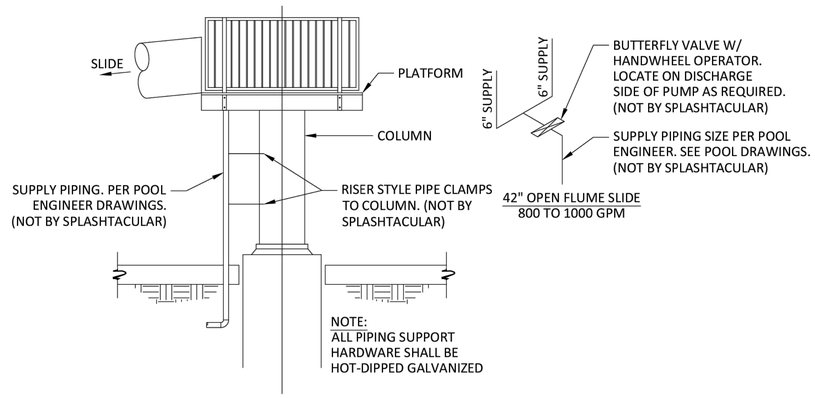


42" OPEN FLUME SLIDE

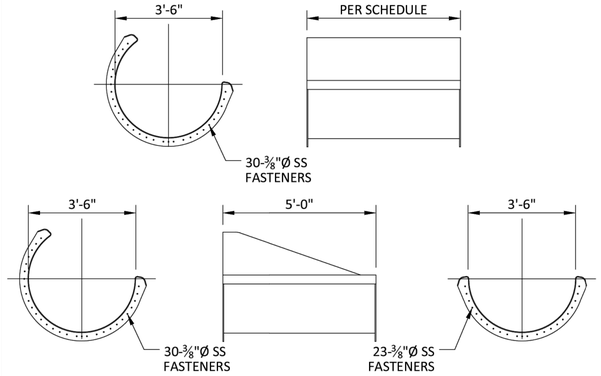
1 S9.0 SLIDE START TUB DETAILS
SCALE: 1/2" = 1'-0"



2 S9.0 SLIDE EXIT POOL DETAILS
SCALE: 1/2" = 1'-0"



3 S9.0 MECHANICAL SCHEMATIC
SCALE: 1/2" = 1'-0"



4 S9.0 42" OPEN FLUME SLIDE TYPICAL SECTION DETAILS
SCALE: 1/2" = 1'-0"

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REVISION HISTORY

MARK	DATE		APPROVED
1	05/16/2025	ISSUED FOR APPROVAL	
2	08/04/2025	ISSUED FOR APPROVAL - REVISE & RESUBMIT 1	
3			
4			
5			

The Structural Support System, foundations, decking/treads, fiberglass components including a finite analysis of the ride path depicted on these drawings were designed under the direction of the Professional Engineer who's seal and signature are affixed to this drawing. Any structural design connections of the slide components that are connected to a building are not by Splashtacular.

REGISTERED PROFESSIONAL ENGINEER ROBERT R. LAWLESS No. 72339 EXP. 06/30/26 CIVIL STATE OF CALIFORNIA
08/11/25

SPLASHTACULAR®
Waterslides and Waterpark Attractions
401 N.East Street • Paola, Kansas 66071
P 800.844.5334 • F 913.294.2496

TITLE: SLIDE ENTRY, EXIT & PART DETAILS
PROJECT: TRANQUILITY HS

DATE: 03/26/2025	PROJECT NUMBER: 12125	COUNTRY: USA
SCALE: AS NOTED	DESIGNER: DAR	STATE: CALIFORNIA
CHECKED: RRR	APPROVED: RRR	CITY: TRANQUILITY

S9.0

CASE Engineering Inc.
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IDENTIFICATION STAMP
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APP: 02-123309 INC: 1
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 9/30/2025

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SEAL

LICENSED ARCHITECT JAMES P. McCLELLAND C-21797 07/31/2027 STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

SLIDE ENTRY, EXIT & PART DETAILS

PHASE DESCRIPTION
100% CD - DSA APPROVAL
INCREMENT 1

DATE: 9/24/2025
TECHNICIAN:
PROJECT MANAGER:
JOB NUMBER: 791

SHEET NUMBER
WS1.20-1

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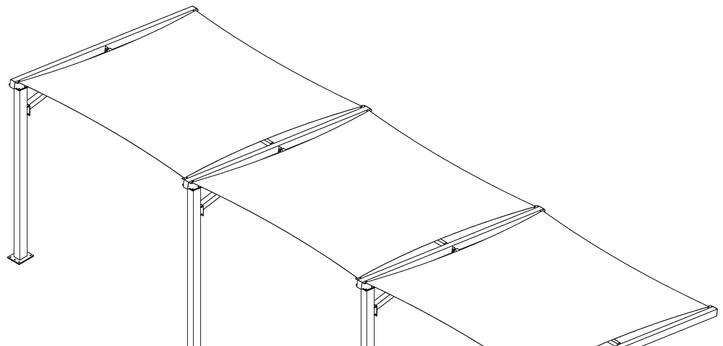
DATE: 9/30/2025

2 1

LIST OF MATERIALS			
ITEM	DESCRIPTION	QTY	MATERIAL / SHAPE
1	COLUMN	4	HSS 12 X 8 X 0.250
2	RAFTER	4	HSS 10 X 8 X 0.250
3	SUPPORT BEAM	4	HSS 6 X 6 X 0.250
4	PURLIN	3	HSS 4 X 4 X 0.250
5	RAFTER CAP	8	STEEL PLATE - 1/4"
6	PURLIN CONNEX. PLATE	6	STEEL PLATE - 3/8"
7	FABRIC TAB	12	STEEL PLATE - 3/8"
8	PURLIN CAP	6	STEEL PLATE - 3/8"
9	COLUMN CONNEX. PLATE	8	STEEL PLATE - 5/8"
10	BASE PLATE	4	STEEL PLATE - 1-1/4"
11	SUPPORT CONNEX. PLATE	8	STEEL PLATE - 1/2"
12	HDPE FABRIC	3	HDPE MESH
13	1/4" - CABLE CLAMP	9	GALV.
14	1/4" - 7X19 WIRE ROPE	3	HDPE MESH (SEE NOTES)
15	5/8" HEX BOLT SET	12	GALV. (SEE NOTES)
16	3/4" X 3" HEX BOLT SET	36	GALV. (SEE NOTES)
17	1/2" - D-SHACKLE	12	GALV.
18	SOLAMESH DEE RING THIMBLE STAINLESS STEEL TYPE 316 10MM X 65MM (3/8" X 2-9/16") PART MO. 207032	12	SOLAMESH DEE RING THIMBLE S.S.
19	6" RAFTER PLATE	6	STEEL PLATE - 3/8"

B



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SHEET 2 OF 8	GENERAL NOTES
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SHEET 5 OF 8	FABRIC SPECIFICATIONS
SHEET 6 OF 7	PLAN AND ELEVATIONS
SHEET 7 OF 8	FRAMING & FABRIC CONNECTION DETAILS
SHEET 8 OF 8	FOUNDATION PLAN AND DETAILS

SEAL

ENGINEER & MANUFACTURER

CUSTOM CANOPIES INC.

11815 BURKE ST,
SANTE FE SPRINGS, CA 90670

PROJECT / LOCATION

TRANQUILITY HIGH SCHOOL

6052 JUANCHE AVE,
TRANQUILLITY, CA 93668

DRAWING NO.

D1436

MODEL

CCB - 60X20X17

DRAWN BY:	IB	DATE:	02/19/2025
CHECKED BY:	HD	DATE:	02/19/2025
SHEET FORMAT:	ARCH. D	REVISION:	A.1
SCALE:	1:60	SHEET 1 OF 8	

REGISTERED PROFESSIONAL ENGINEER
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S 3081
EXP. 6/30/2025
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STATE OF CALIFORNIA
4/15/25

CUSTOM CANOPIES INC

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REVISIONS

REV #	REV DATE	REV DESCRIPTION

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LICENSED ARCHITECT
ANTONIO PAVONE
C-39093
REN. 9/30/2025
STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
INCREMENT 1 AQUATIC CENTER MODERNIZATION
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CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

COVER SHEET

PHASE DESCRIPTION
100% CD - DSA APPROVAL
INCREMENT 1

DATE: 9/24/2025

TECHNICIAN: RT / JL

PROJECT MANAGER: TP

JOB NUMBER: 791

SHEET NUMBER

SH0.1-1

PLOT DATE: 9/19/2025 5:26:27 PM

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DIV. OF THE STATE ARCHITECT
APP: 02-123309 INC: 1
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SS ☑ FLS ☑ ACS ☑
DATE: 9/30/2025

CONCRETE:

1. ALL CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF THE 2022 C.B.C. AND THE A.C.I. 318-19 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS".
2. SLAB AND FOUNDATION CONCRETE SHALL BE 150 P.C.F. HARDROCK, MIXED PER A.S.T.M. C-94, AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 P.S.I. AT 28 DAY. MAX. SLUMP TO BE 4" ± 1" OF W/C RATIO < .45
3. THE MAXIMUM SIZE AGGREGATE IN FOUNDATION AND MASS CONCRETE WORK SHALL BE 1 INCH.
4. CEMENT SHALL CONFORM TO A.S.T.M.. C-150 TYPE II, FOR NORMAL WEIGHT SHALL CONFORM TO A.S.T.M. C-33.
5. ADMIXTURES AND COLORS (EXCEPT AS NOTED HEREIN) SHALL NOT BE USED UNLESS SUBSTANTIATING DATE IS SUBMITTED TO AND ACCEPTED BY THE ENGINEER AND ARCHITECT OF RECORD AND DSA.
6. CONCRETE MIXES SHALL BE DESIGNED BY A QUALIFIED TESTING LABORATORY. THE MIX DESIGNS SHALL CONFORM TO ACI 318-19 SECTION 26.4.3. UNLESS NOTED OTHERWISE.
7. NON-STRUCTURAL STEEL EMBEDDED IN CONCRETE SHALL BE GALVANIZED OR PAINTED. ALL DAMAGED GALVANIZED AREAS SHALL BE REPAIRED PRIOR TO EMBEDMENT.
8. READY MIXED CONCRETE SHALL CONFORM TO (A.S.T.M. C-94).
9. PLACEMENT OF CONCRETE SHALL CONFORM THE 2022 C.B.C. AND THE TO A.C.I. 304. CLEAN AND ROUGHEN A FULL AMPLITUDE OF 1/4" BY REMOVING THE ENTIRE SURFACE AND EXPOSING CLEAN AGGREGATE SOLIDLY EMBEDDED IN THE MORTAR MATRIX AGAINST ALL CONCRETE SURFACES AGAINST WHICH CONCRETE IS TO BE POURED.
10. ALL EXPOSED CONCRETE SHALL HAVE A SMOOTH FORM FINISH USING B-B PLYFORM, CLASS I, EXT-A.P.A. PLYWOOD.
11. ALL SLABS SHALL HAVE A TROWELED FINISH EXCEPT AS NOTED ON THE DRAWINGS.
12. ALL REINFORCING STEEL, ANCHOR BOLTS, DOWELS AND INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE.
13. IF THE CONTRACTOR DESIRES TO MAKE ANY CONSTRUCTION JOINTS OTHER THAN THOSE SHOWN ON THESE DRAWINGS, HE SHALL SUBMIT DETAILS OF CHANGES TO THE ENGINEER OF RECORD FOR REVIEW BEFORE STARTING WORK AND THE ENGINEER OF RECORD TO OBTAIN DSA APPROVAL PRIOR TO STARTING WORK.
14. NO BRICK OR POROUS MATERIAL SHALL BE USED TO SUPPORT FOUNDATION STEEL OF THE GROUND.
15. PROVIDE 1/2 INCH CHAMFER ON ALL EXPOSED CONCRETE CORNERS, U.N.O.
16. MINIMUM CONCRETE COVERAGES
    - FOOTINGS CAST AGAINST EARTH 3"
    - FORMED CONCRETE EXPOSED TO EARTH OR WEATHER 2"
17. CONCRETE CURING:
    - SLAB AND FDN; TYPICALLY REQUIRED FOR 10 DAYS TO ACHIEVE A MINIMUM OF 3000 PSI STRENGTH PRIOR TO INSTALLATION OF OTHER MAJOR STRUCTURAL COMPONENTS.

FOUNDATION:

1. THIS STRUCTURE IS DESIGNED PER TECHNICON ENGINEERING SERVICES, INC. REPORT TES NO. 240282.00; ATTACH ONE COPY OF SOILS REPORT TO THE APPROVED SET OF CONSTRUCTION DOCUMENTS. SOILS REPORT SHALL BE PART OF THESE NOTES. PRIOR TO THE POURING OF CONCRETE AND PRIOR TO THE CONTRACTOR REQUESTING A DSA FOUNDATION INSPECTION, THE GEOTECHNICAL ENGINEER SHALL INSPECT AND APPROVE THE FOOTING EXCAVATIONS. HE SHALL POST NOTICE ON THE JOB SITE AND ADVISE THE DSA INSPECTOR IN WRITING THAT THE WORK SO INSPECTED MEETS THE CONDITIONS OF THE REPORT. A WRITTEN CERIFICATION TO VERIFY THAT:
    - THE BUILDING PAD WAS PREPARED IN ACCORDANCE WITH THE SOIL REPORT.
    - THE UTILITY TRENCHES HAVE BEEN PROPERLY BACKFILLED AND COMPACTED, AND
    - THE FOUNDATION EXCAVATIONS COMPLY WITH THE INTENT OF THE SOILS REPORT.
2. DEEP FOUNDATION DESIGN:
    - DESIGN SOIL PRESSURE:

ALLOWABLE AXIAL CAPACITY

FRICTIONAL RESISTANCE FOR VERTICAL LOADS IN COMPRESSION (LBS)	
STATIC LOADING	$25\ DL^2 + 1,255\ DL$
TOTAL COMBINED LOADING	$30\ DL^2 + 1,675\ DL$
UNFACTORED ULTIMATE CAPACITY	$45\ DL^2 + 2,510\ DL$

NOTE: 1) D IS PIER DIAMETER IN FEET AND L IS EMBEDMENT LENGTH IN FEET.
2) THE ALLOWABLE UPLIFT RESISTANCE WOULD BE 70 PERCENT OF THE COMPRESSIONAL RESISTANCE

PASSIVE BEARING
-ALLOWABLE PASSIVE BEARING = 100 PCF WITH 1/3 INCREASE ALLOWED FOR LOADING WITH WIND/SEISMIC
-NOTE PER CBC 1806A.3.4, ALLOWABLE PASSIVE USED IN FOUNDATION DESIGN IS 2X100 = 200 PCF AND AS APPROVED BY TECHNICON ENGINEERING SERVICES, INC.
-DISCOUNT TOP 12" BURY DEPTH FOR PASSIVE RESISTANCE PER GEOTECH.

3. ALL ABANDONED FOOTINGS, UTILITIES, ETC., THAT INTERFERE WITH NEW CONSTRUCTION SHALL BE REMOVED.
4. THE CONTRACTOR SHALL DETERMINE LOCATION OF UTILITY SERVICES IN AREAS TO BE EXCAVATED BEFORE BEGINNING EXCAVATION. EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING. DAMAGE CAUSED AS A RESULT OF FAILING TO EXACTLY LOCATE AND PRESERVE ALL EXISTING UNDERGROUND UTILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
5. THE CONTRACTOR SHALL PROVIDE FOR THE DESIGN, APPROVALS, PERMITS, INSTALLATION AND MONITORING OF ALL CRIBBING, SHEATHING AND SHORING REQUIRED TO SAFELY RETAIN TEMPORARY EXCAVATIONS.
6. ALL PLANTERS IN CLOSE PROXIMITY TO THE STRUCTURE SHALL HAVE ADEQUATE DRAINAGE OF SURFACE WATER TO PREVENT SATURATION OF SOIL UNDER FOUNDATION
7. SEISMICALLY INDUCED SETTLEMENT DUE TO LIQUEFACTION WAS EVALUATED TO BE 0.8 INCHES. THE GENERAL GUIDELINES OF THE CGS INDICATE THE DIFFERENTIAL SEISMICALLY INDUCED SETTLEMENT ACROSS A BUILDING WOULD BE ABOUT ONE-HALF THE TOTAL SETTLEMENT. THIS WOULD RESULT IN DIFFERENTIAL SETTLEMENT ACROSS BUILDINGS OF APPROXIMATELY 0.4-INCH. THE ESTIMATED DIFFERENTIAL SETTLEMENT IS ANTICIPATED TO BE WITHIN THE TOLERANCE OF THE PROPOSED STRUCTURES AND WILL NOT RESULT IN SIGNIFICANT DAMAGE OR COLLAPSE.

GENERAL NOTES:

1. THE PROJECT SPECIFICATIONS SHALL BE PART OF THE CONTRACT DOCUMENTS
2. THE STRUCTURAL DRAWINGS ARE TO BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS.
3. THE CONCTRACTOR SHALL REVIEW EXISTING CONDITIONS ON THE SITE DURING THE BIDDING. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING WORK. THE ARCHITECT AND ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANICES OR INCONSISTENCIES PRIOR TO PROCEEDING.
4. ALL PHASES OF WORK ARE TO CONFORM TO THE MINIMUM STANDARDS OF THE CBC 2022, RELATED CALIFORNIA BUILDING CODE STANDARDS, AND ANY ASTM SPECIFICATIONS ON WHICH THESE STANDARDS ARE BASED. WHERE CONFLICT BETWEEN BUILDING CODES AND SPECIFICATIONS OCCURS, THE MOST STRINGENT REQUIREMENTS SHALL GOVERN.
5. ALL ASTM DESIGNATIONS REFERRED TO ON THESE DRAWINGS SHALL BE THE LATEST ADOPTED OR REVISED SPECIFICATION, AS OF THE DATE OF THESE DRAWINGS.
6. ALL DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS, SECTIONS, AND DETAILS. DRAWINGS SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES.
7. NOTES AND DETAILS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
8. THE STRUCTURAL DRAWINGS SHOW ONLY THE BASIC STRUCTURAL REQUIREMENTS. REFER TO CIVIL, ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS THAT OCCUR PER SPECIFIC PLANS FOR NON-STRUCTURAL ITEMS, SUCH AS:
    - SIZE AND LOCATION OF ALL OPENINGS
    - SIZE AND LOCATION OF ALL NON-BEARING WALLS
    - SIZE AND LOCATION OF ALL CONCRETE CURBS, WALKS, ROOF AND FLOOR DRAINS, SLOPES, DEPRESSED SLAB AREAS, ETC.
    - FLOOR, ROOF, AND WALL FINISHES
    - DEIMESNIONS NOT SHOWN ON STRUCTURAL DRAWINGS.
9. THE STRUCTURAL CONTRACT DOCUMENTS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE NOTED. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION.
10. NEITHER THE OWNER NOR THE ARCHITECT/STRUCTURAL ENGINER WILL ENFORCE SAFETY MEASURES OR REGULATIONS. THE CONCTRACTOR SHALL AT HIS OWN EXPENSE, DESIGN, CONSTRUCT AND MAINTAIN ALL SAFETY DEVICES. INCLUDING SHORING AND BRACING AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE, AND FEDERAL SAFETY AND HEALTH STANDARD, LAWS AND REGULATIONS. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE SAFETY ITEMS.
11. SATISFACTORY EXECUTION OF CONSTRUCTION IS DEPENDANT UPON CONFORMANCE WITH THE INTENT OF THESE DRAWINGS. OWNER OR CONTRACTOR SHALL RETAIN A CALIFORNIA LICENSED STRUCTURAL ENGINEER DURING CONSTRUCTION TO OBSEREVE THE CONSTRUCTION AND FILE A REPORT (DSA 6AE) STATING "THE CONSTRUCTION HAS, IN EVERY MATERIAL RESPECT, BEEN PERFORMED IN COMPLIANCE WITH THE DSA APPROVED DOCUMENTS.
12. CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACES ON FRAMED FLOORS OR ROOF. LOAD SHALL NOT EXCEED DESIGN LIVE LOAD FOR EACH PARTICULAR LEVEL. WHEN WEIGHT OF MATERIALS OR EQUIPMENT MAY EXCEED DESIGN LOAD, STRUCTURED SYSTEMS SHALL BE SHORED.
13. WHERE NO CONSTRUCTION DETAILS ARE SHOWN OR NOTED FOR ANY PART OF THE WORK. THE DETAILS SHALL BE THE SAME AS FOR OTHER SIMILAR WORK

DESIGN BASIS:

1. CODE: 2022 CBC (CALIFORNIA BUILDING CODE CCR, TITLE 24, PART 2)
2. GRAVITY LOADS:
    - ROOF LIVE LOAD = 5 PSF. (REDUCIBLE)
    - ROOF DEAD LOAD = 1.5 PSF. (MAX)
    - SNOW LOAD PG = 0.0 PSF.
3. LATERAL LOADS:
    - SITE CLASS D - (DEFAULT WHERE NO GEOTECHNICAL REPORT REQUIRED) NOTE: DESIGN VALUES MAY ALSO BE USED WHERE SITE CLASS C IS JUSTIFIED BY LOCATION SPECIFIC GEOTECHNICAL REPORT
    - RISK CATEGORY = II
    - REDUNDANCY (ρ) = 1.30
    - Ss = 0.967
    - S1 = 0.336
    - Sms = 1.337
    - Sm1 = 1.008
    - Sds = 0.891
    - Sd1 = 0.672
    - SITE COEFFICIENT Fv = 2.500
    - SITE COEFFICIENT Fa = 1.113
    - Ts = 1.170
    - SEISMIC DESIGN CATEGORY = D (ASCE 7-16 TABLE 11.6.1 AND TABLE 11.6.2)
    - Ie = 1.00
    - R = 1.25
    - ORDINARY CANTILEVER COLUMN SYSTEM
    - Cs = Sds/(R/Ie) (LRFD) = 0.948 ULTIMATE
    - ANALYSIS METHOD = EQUIVALENT LATERAL FORCE ANALYSIS
4. WIND DESIGN
    - ANALYSIS METHOD = DIRECTIONAL PROCEDURE (OPEN STRUCTURE)
    - V = 94 MPH, BASIC WIND SPEED, ASCE 7-16
    - EXPOSURE "C"
    - Kzt = 1.0
    - RISK CATEGORY = II
5. STRUCTURE IS DESIGNED FOR CLEAR WIND FLOW
6. FLOOD HAZARD: DESIGN DOES NOT ACCOUNT FOR FLOOD HAZARD
7. SITE SPECIFIC GEOTECHNICAL STUDY IS NOT REQUIRED
8. THIS DESIGN IS NOT DESIGNED TO INCLUDE WEIGHT OF SPRINKLERS.

SEAL

ENGINEER & MANUFACTURER

CUSTOM CANOPIES INC.

11815 BURKE ST,
SANTE FE SPRINGS, CA 90670

PROJECT / LOCATION

TRANQUILITY HIGH SCHOOL

6052 JUANCHE AVE,
TRANQUILLITY, CA 93668

DRAWING NO.

D1436

MODEL

CCB - 60X20X17

DRAWN BY:	IB	DATE:	02/19/2025
CHECKED BY:	HD	DATE:	02/19/2025
SHEET FORMAT:	ARCH. D	REVISION:	A.1
SCALE:	1:46	SHEET 2 OF 8	

REGISTERED PROFESSIONAL ENGINEER
JAMES L. MITCHELL
S 3081
EXP. 6/30/2025
STRUCTURAL
STATE OF CALIFORNIA
4/15/25

CUSTOM CANOPIES INC

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REVISIONS

REV #	REV DATE	REV DESCRIPTION

SEAL

LICENSED ARCHITECT
ANTONIO PAVONE
C-39098
REN: 9/30/2025
STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
INCREMENT 1 AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
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CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

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100% CD - DSA APPROVAL
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DATE: 9/24/2025
TECHNICIAN: RT / JL
PROJECT MANAGER: TP
JOB NUMBER: 791

SHEET NUMBER
SH0.2-1

PLOT DATE: 9/19/2025 5:26:29 PM

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APP: 02-123309 INC: 1
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 9/30/2025

2 1

B

A

STRUCTURAL OBSERVATION:

1. PER C.B.C. CHAPTER 17A, 1704A.6 THE OWNER SHALL EMPLOY A LICENSED ENGINEER OR ARCHITECT RESPONSIBLE FOR THE STRUCTURAL DESIGN, OR HIS DESIGNATED ENGINEER OR ARCHITECT TO MAKE SITE VISITS TO OBSERVE. GENERAL COMPLIANCE WITH THE APPROVED STRUCTURAL PLANS, SPECIFICATIONS AND CONSTRUCTION CHANGE DOCUMENT (CCD). THE ENGINEER OR ARCHITECT SHALL SUBMIT A STATEMENT IN WRITING TO THE DSA PROJECT INSPECTOR STATING THAT THE SITE VISIT HAS BEEN MADE AND THAT ANY DEFICIENCIES NOTED HAVE BEEN CORRECTED.
2. IN ACCORDANCE WITH SECT. 4-333 (a) OF TITLE 24, PART 1, STRUCTURAL OBSERVATION SHALL INCLUDE AND OCCUR AT THE FOLLOWING STAGES:
   - OBSERVATION AT THE SITE PRIOR TO PLACING CONCRETE.
   - OBSERVATION OF THE SHADE STRUCTURE DURING FABRICATION AFTER MAJORITY OF STRUCTURAL ITEMS ARE IN PLACE.
   - OBSERVATION OF THE COMPLETED STRUCTURE PRIOR TO BEING COVERED FINISHES.
3. AT COMPETITION OF IN-PLANT MANUFACTURING THE INDIVIDUAL ACCEPTING RESPONSIBILITY FOR OBSERVATION OF IN-PLANT MANUFACTURING SHALL SIGN THE VERIFIED REPORT, DSA 152-IPI (IN-PLANT INSPECTOR VERIFIED REPORT).
4. OBSERVATION OF THE ON SITE CONSTRUCTION INCLUDES THE SCOPE OF WORK INDICATED ON THE DSA APPROVED BUILDING PLANS AND SPECS.
5. INTERIM AND FINAL VERIFIED REPORTS ARE REQUIRED DURING, AND AT THE COMPLETION OF, ON SITE CONSTRUCTION AND INSTALLATION USING FORM DSA 6-AE (ARCHITECT/ENGINEER VERIFIED REPORT).
6. STRUCTURAL TESTING & SPECIAL INSPECTIONS: REFER TO DSA-103 FORM FOR ALL STRUCTURAL TESTING & SPECIAL INSPECTION REQUIREMENTS. IN THE EVENT OF A CONFLICT BETWEEN THE DRAWINGS, SPECIFICATIONS, AND DSA-103 FORM, THE MORE STRINGENT REQUIREMENT SHALL APPLY.

STEEL CABLES:

1. ALL CABLE STEEL TO BE ASTM A1023, 6X19 CLASS IWRC OR 7X19 CLASS IWRC
2. CABLES SHALL BE GALVANIZED (CLASS A ZINC COATING) OR STAINLESS STEEL, CLASS BRIGHT WIRE ROPE.
3. MAXIMUM CABLE STRENGTH:
   - 1/4" 7X19 304 GALV. = 9800 LBS, SERVICE PER MFG. 3340 LBS MAX. ALLOWABLE PER CODE.
4. MAX. PRETENSION LOAD:
   - 1/4" DIA. = 75 LBS TO 125 LBS
5. FOR CABLE (ROPE CLAMPS) SEE SH0.4-1

WELDING:

1. QUALIFIED AND CERTIFIED WELDERS SHALL BE USED FOR ALL WELDING.
2. ALL WELDING SHALL CONFORM TO THE LATEST ADOPTED EDITION OF THE AWS D1.1 AND CFC
3. ALL WELDING SHALL BE DONE BY THE SHIELDED ARC PROCESS USING APPROVED ELECTRODES PER AWS SPECIFICATIONS E70XX (LOW HYDROGEN ELECTRODES).
4. ALL WELDS SHALL HAVE A WELD CONTROLLED SEQUENCE AND TECHNIQUE IN ORDER TO MINIMIZE SHRINKAGE, STRESSES, AND DISTORTION.
5. ALL ELECTRODES FILLER MATERIAL SHALL BE A MIN. OF E70XX
6. SPECIAL INSPECTION IS REQUIRED FOR ALL WELDING. SEE DSA FORM 103
7. ALL SHOP AND FIELD WELDING OF MOMENT CONNECTIONS OR MOMENT RESISTING FRAMES, AND ALL COLUMN SPLICE WELDS, SHALL BE TESTED AS PER CBC:
   - ALL WELDS WITHIN MEMBERS DESIGNATED AS PER OF THE LATERAL FORCES RESITING SYSTEM (LFRS) SHALL CONFORM TO THE DETAILING, MATERIALS, WORKMANSHIP, TESTING AND INSPECTION REQUIRMENTS PERS AWS D1.8 AND AISC 341-16, AND SHALL USE A FILLER METAL WITH A CHARPY V-NOTCH (CVN) TOUGHNESS OF 20 FT-LB AT 0°F.
   - WHERE WELDS ARE DESIGNATED AS DEMAND CRITICAL, THEY SHALL BE WITH FILLER METAL CAPABLE OF PROVIDING A MIN. CVN TOUGHNESS OF 20 FT-IB AT 20°F AND 40 FT-IB AT 70°F. SEE AWS D1.8 SECTION 6.3.8.
   - WELDERS PERFORMING WELDING WITHIN THE LFRS SHALL BE QUALIFIED IN ACCORDANCE WITH AWS D1.8 CHAPTER 5

STEEL:

1. MATERIALS:
   - MISCELLANEOUS PLATES SHALL CONFORM TO - ASTM A-36
   - HIGH STRENGTH STEEL CONNECTION BOLTS SHALL CONFORM TO - ASTM A325
   - ANCHOR BOLTS SHALL CONFORM TO F1554 GRADE 36 AND SHALL BE HOT-DIP GALVANIZED
   - HSS STEEL TUBING (SQ. RECT. & ROUND) SHALL CONFORM TO - ASTM A-500, GRADE B (HSS ROUND, FY = 42 KSI) HSS SQ. & RECT., FY = 46 KSI)
   - WELDING ELECTRODES SHALL CONFORM TO - AWS STRUCTURAL STEEL E70XX
   - GALVANIZING SHALL CONFORM TO - ASTM A-123
   - RUST-INHIBITING PRIMER SHALL BE SHERWIN WILLIAMS CC-M10 OR EQUAL.
2. STRUCTURAL STEEL SHALL BE HOT DIP GALVANIZED PER ASTM A123, UNDERCOAT AND FINISH COAT OR EQUIVALENT PAINT SYSTEM.
3. CONNECTED MEMBERS SHALL BEAR ONLY UPON UNTHREADED PORTIONS OF BOLTS.
4. BURNING OF HOLES IS NOT ALLOWED.
5. INSPECTION OF WELDING SHALL CONFORM TO CBC REQUIREMENTS (CHAPTER 17A)
6. THE STRUCTURAL STEEL FABRICATOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
7. BOLT HOLES SHALL BE 1/8" LARGER IN DIAMATER THAN NOMINAL SIZE OF BOLTS USED, UNLESS OTHERWISE NOTED.
8. STRUCTURAL STEEL SHALL BE DELIVERED TO THE JOB SITE FREE OF EXCESSIVE RUST, MILL SCALE, GREASE, ETC.
9. OPENINGS SHALL NOT BE PLACES IN STEEL MEMBERS UNLESS SPECIFICALLY DETAILED.

SEAL

ENGINEER & MANUFACTURER

CUSTOM CANOPIES INC.

11815 BURKE ST,
SANTE FE SPRINGS, CA 90670

PROJECT / LOCATION

TRANQUILITY HIGH SCHOOL

6052 JUANCHE AVE,
TRANQUILLITY, CA 93668

DRAWING NO.

D1436

MODEL

CCB - 60X20X17

DRAWN BY:	IB	DATE:	02/19/2025
CHECKED BY:	HD	DATE:	02/19/2025
SHEET FORMAT:	ARCH. D	REVISION:	A.1
SCALE:	1:46	SHEET 3 OF 8	

REGISTERED PROFESSIONAL ENGINEER
JAMES L. MITCHELL
S 3081
EXP. 6/30/2025
STRUCTURAL
STATE OF CALIFORNIA
4/15/25

CUSTOM CANOPIES INC

AGD
ARCHITECTURE | DESIGN
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REVISIONS

REV # | REV DATE | REV DESCRIPTION

SEAL

LICENSED ARCHITECT
ANTONIO PAVONE
C-39093
REN. 9/30/2025
STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
INCREMENT 1 AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

SPECIFICATIONS

PHASE DESCRIPTION
100% CD - DSA APPROVAL
INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: RT / JL
PROJECT MANAGER: TP
JOB NUMBER: 791

SHEET NUMBER
SH0.3-1

PLOT DATE: 9/19/2025 5:26:31 PM

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APP: 02-123309 INC: 1
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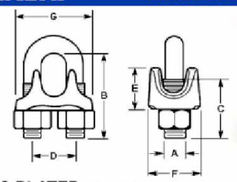
SS ☑ FLS ☑ ACS ☑
DATE: 9/30/2025

2 1

B

A

kulkoni MALLEABLE WIRE ROPE CLIPS



ZINC PLATED, MALLEABLE

Size in Inches	Min. Clips Required	Wire Rope Turn Back in Inches	Torque in Foot Pounds*	Approx. Wt. in Pounds	Dimensions in Inches						
					A	B	C	D	E	F	G
[redacted]											
1/4	3	7	15.0	0.130	0.31	1.19	0.75	0.75	0.69	0.75	1.31
[redacted]											

Meets the performance requirements of Federal Specification FF-C-450, current revision, Type 1, Class 2.**
* Based on clean, unlubricated threads. The table above shows the minimum torque required to reach maximum holding power of wire rope clips.
** NOTE: 1/16" and 1/8" are not covered by Federal Specification FF-C-450, current revision.

Improper use and installation of cast malleable wire rope clips can result in serious injury or death.
NEVER use cast malleable wire rope clips for lifting or suspending ANY load.
Cast malleable wire rope clips are to be used only for non-critical, light duty applications with small applied loads.
For complete installation instructions refer to page 48.

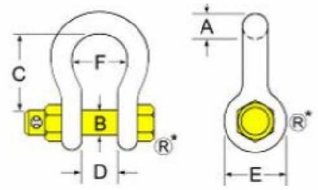
7 x 19

7 x 19 GALVANIZED CABLE

Size in Inches	Approx. Wt. per 1000 Ft. in Pounds	Breaking Strength in Pounds*
[redacted]		
1/4	110.0	7,000
[redacted]		

Small diameter 7 x 7 and 7 x 19 construction cable is sometimes referred to as "aircraft cable". *It is not intended for aircraft use* but designed for industrial and marine applications according to Federal Specification RR-W-410, current revision and A.S.T.M. A 1023/A 1023M, as applicable.

* Listed for comparison only. Actual operating loads should never exceed the recommended design factor or 20% of catalog Breaking Strength.



* U.S. Registered Trademark No. 2,011,393

GALVANIZED BOLT TYPE ANCHOR SHACKLES

Size in Inches (A)	Working Load Limit in Tons	Bolt Ø in Inches (B)	Length Inside in Inches (C)	Width Between Eyes in Inches (D)		Dimensions in Inches		Appx. Weight Each in Pounds
				Nominal	Tolerance	E	F	
1/2	2	5/8	1.7/8	13/16	± 1/16	1.3/8	1.3/16	0.9
[redacted]								

* The YELLOW shackle bolt is the Federally Registered Trademark of Kulkoni, Inc.
** Minimum Width Between Eyes as defined by Federal Specification RR-C-271, current revision.
Meets the performance requirements of Federal Specification RR-C-271, current revision, Type IV A, Class 3, Grade A. Hot galvanized, forged carbon steel, heat treated, with alloy bolts, permanently marked with size and Working Load Limit. Sizes 1/2" through 3" are also available in DOMESTIC.

DEE RING THIMBLE

			HEIGHT		WIDTH		INSIDE THIMBLE DIAMETER	OUTSIDE DIAMETER		GROVE DIAMETER
			MM	INCHES	MM	INCHES	INCHES	MM	INCHES	INCHES
	207032	SOLAMESH DEE RING THIMBLE STAINLESS STEEL TYPE 316 10MM X 65MM (3/8" X 2-9/16")	76MM	2.99"	67MM	3.43"	1.88"	65MM	2.55"	0.36"

[redacted]

SEAL

ENGINEER & MANUFACTURER
CUSTOM CANOPIES INC.
11815 BURKE ST,
SANTE FE SPRINGS, CA 90670

PROJECT / LOCATION
TRANQUILITY HIGH SCHOOL
6052 JUANCHE AVE,
TRANQUILLITY, CA 93668

DRAWING NO.
D1436

MODEL
CCB - 60X20X17

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SCALE:	1:46	SHEET 4 OF 8	

JAMES L. MITCHELL 4/15/25
REGISTERED PROFESSIONAL ENGINEER
S 3081
EXP. 6/30/2025
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STATE OF CALIFORNIA

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REV # | REV DATE | REV DESCRIPTION

SEAL
LICENSED ARCHITECT
ANTONIO PAVONE
C-39098
REN: 9/30/2025
STATE OF CALIFORNIA

PROJECT
TRANQUILLITY HIGH SCHOOL
INCREMENT 1 AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT
GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE
SUPPLIER SPECIFICATIONS

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: RT / JL
PROJECT MANAGER: TP
JOB NUMBER: 791

SHEET NUMBER
SH0.4-1

PLOT DATE: 9/19/2025 5:26:32 PM

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APP: 02-123309 INC: 1
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 9/30/2025

2 1

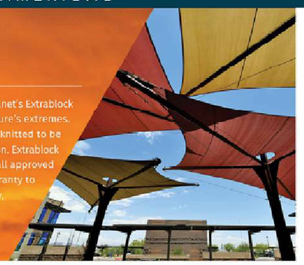
B

A

ALNET AMERICAS

ALNET AMERICAS EXTRABLOCK

EXTRABLOCK



Designed for strength and durability, ALnet's Extrablock shadecloth protects against all of nature's extremes. It meets the highest standards and is knitted to be dimensionally stable for easy fabrication. Extrablock also comes in 18 California Fire Marshall approved colors and is backed by a 10-year warranty to demonstrate our dedication to quality, durability and safety.

Properties	Mass	Thickness	Fabric Width	Strip Tensile		Elongation at Break		Tearing Strength - Tongue Tear		Burst Strength	Burst Strength	Air Permeability	Temp. Stability
Test Method	ASTM D776	ASTM D177	ASTM D76	ASTM D5034		ASTM D-5035-06		ASTM D-2261		ASTM D3787 Ball	ASTM D3786 Mullen	ASTM D737	
				Warp	Weft	Warp	Weft	Warp	Weft			cm/s/ft2	
US	9.6 oz/yd	50.4 mil	118 in.	270 lbf	340 lbf	71%	74%	33 lbf	36 lbf	353 lb	469 psi	263.5	23°F +176°F
Metric	325 gsm	1.28mm	3 m	1236 N	1512 N	71%	74%	147 N	160 N	1615 N	3173 kPa		-5°C +80°C

Colors	UPF	UVR	Shade Factor	Fire Retardancy	Flame Resistance
Cream	13	92%	74%	Yes	ASTM E-84
Beige	33	97%	87%	Yes	ASTM E-84
Yellow	16	94%	76%	Yes	ASTM E-84
Red	29	97%	86%	Yes	ASTM E-84
True Blue	14	93%	89%	Yes	CSFM/CA 1237.1 Title 19 - NFPA-701 #2 - CAN/ULC-S109 - ASTM E-84
Forest Green	24	96%	94%	Yes	CSFM/CA 1237.1 Title 19 - NFPA-701 #2 - CAN/ULC-S109 - ASTM E-84
Silver	19	95%	93%	Yes	CSFM/CA 1237.1 Title 19 - NFPA-701 #2 - CAN/ULC-S109 - ASTM E-84
Sunblaze	14	94%	91%	Yes	CSFM/CA 1237.1 Title 19 - NFPA-701 #2 - CAN/ULC-S109 - ASTM E-84
Latte	18	95%	90%	Yes	CSFM/CA 1237.1 Title 19 - NFPA-701 #2 - CAN/ULC-S109 - ASTM E-84
Bottle Green	16	94%	91%	Yes	CSFM/CA 1237.1 Title 19 - NFPA-701 #2 - CAN/ULC-S109 - ASTM E-84
Charcoal	20	96%	94%	Yes	CSFM/CA 1237.1 Title 19 - NFPA-701 #2 - CAN/ULC-S109 - ASTM E-84
Midnight	33	98%	98%	Yes	CSFM/CA 1237.1 Title 19 - NFPA-701 #2 - CAN/ULC-S109 - ASTM E-84
Mint Green	18	95%	93%	Yes	CSFM/CA 1237.1 Title 19 - NFPA-701 #2 - CAN/ULC-S109 - ASTM E-84
Dove Blue	13	93%	90%	Yes	CSFM/CA 1237.1 Title 19 - NFPA-701 #2 - CAN/ULC-S109 - ASTM E-84
Oxide Red	14	93%	91%	Yes	CSFM/CA 1237.1 Title 19 - NFPA-701 #2 - CAN/ULC-S109 - ASTM E-84
Pearl Onyx	16	94%	86%	Yes	CSFM/CA 1237.1 Title 19 - NFPA-701 #2 - CAN/ULC-S109 - ASTM E-84
Purple	16	94%	86%	Yes	CSFM/CA 1237.1 Title 19 - NFPA-701 #2 - CAN/ULC-S109 - ASTM E-84
Olive	26	97%	96%	Yes	CSFM/CA 1237.1 Title 19 - NFPA-701 #2 - CAN/ULC-S109 - ASTM E-84
Brown	19	95%	93%	Yes	CSFM/CA 1237.1 Title 19 - NFPA-701 #2 - CAN/ULC-S109 - ASTM E-84
Navy Blue	23	96%	96%	Yes	CSFM/CA 1237.1 Title 19 - NFPA-701 #2 - CAN/ULC-S109 - ASTM E-84
Lime	18	95%	79%	Yes	CSFM/CA 1237.1 Title 19 - NFPA-701 #2 - CAN/ULC-S109 - ASTM E-84
Hazelnut	18	95%	91%	Yes	CSFM/CA 1237.1 Title 19 - NFPA-701 #2 - CAN/ULC-S109 - ASTM E-84

CERTIFICATIONS

NFPA 701 · ASTM E84 TESTING · UP TO 98% UVR PROTECTION · 100% RECYCLABLE · SABS APPROVED · verified BEE rating

10 Year Warranty

ALNET is the leading innovator in synthetic textile and netting material production for the world's ***architectural, agricultural, aquacultural*** and ***industrial industries.***

For more information, please contact **protect@AlnetAmericas.com** or visit us at **www.AlnetAmericas.com**

CAL FIRE SINCE 1885

FLAME RETARDANT

Fabric Registration

LICENSE NUMBER: F-094501

EXTRA BLOCK SHADECLOTH

Product Marketed by:

ALNET PTY (LTD)
MOORSOM AVENUE, EPPING, INDUSTRY II
CAPE TOWN, S. AFRICA, ,

Issue Date : 03/25/2024
Expiration Date : 06/30/2025

This product meets the minimum requirements of flame resistance established by the California State Fire Marshal for products identified in Section 13115, California Health and Safety Code. The scope of the approved use of this product is provided in the current edition of the CALIFORNIA APPROVED LIST OF FLAME RETARDANT CHEMICALS AND FABRICS, GENERAL AND LIMITED APPLICATIONS CONCERNS published by the California State Fire Marshal.

Issued By Cortney Walker
Fire Engineering License Manager
Fire Engineering & Investigations Division

Reviewed and Approved By Patricia Setter
Deputy State Fire Marshal III
Fire Engineering & Investigations Division

OFFICE OF THE STATE FIRE MARSHAL

Please visit calfire.govmotus.org for more information on Licensing and Permitting with CAL FIRE

SEAL

ENGINEER & MANUFACTURER

CUSTOM CANOPIES INC.

11815 BURKE ST,
SANTE FE SPRINGS, CA 90670

PROJECT / LOCATION

TRANQUILITY HIGH SCHOOL

6052 JUANCHE AVE,
TRANQUILLITY, CA 93668

DRAWING NO.

D1436

MODEL

CCB - 60X20X17

DRAWN BY:	IB	DATE:	02/19/2025
CHECKED BY:	HD	DATE:	02/19/2025
SHEET FORMAT:	ARCH. D	REVISION:	A.1
SCALE:	1:46	SHEET 5 OF 8	

4/15/25
REGISTERED PROFESSIONAL ENGINEER JAMES L. MITCHELL S 3081 EXP. 6/30/2025 STRUCTURAL STATE OF CALIFORNIA

CUSTOM CANOPIES INC

AGD ARCHITECTURE | DESIGN

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REV # | REV DATE | REV DESCRIPTION

SEAL

LICENSED ARCHITECT ANTONIO PAVONE C-39088 REN: 9/30/2025 STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
INCREMENT 1 AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

FABRIC SPECIFICATIONS

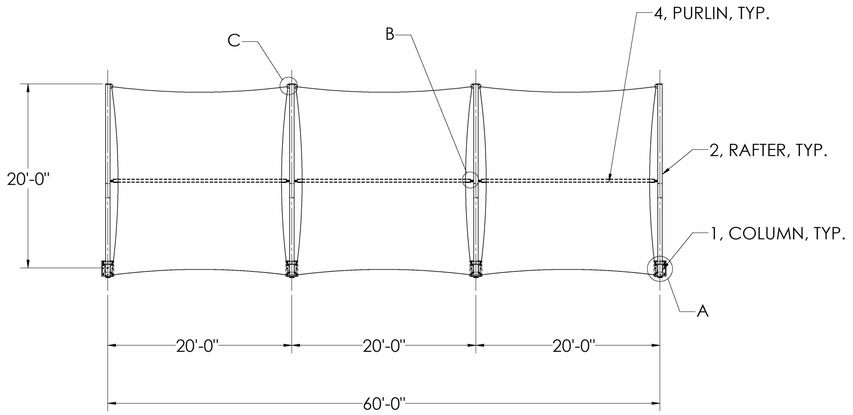
PHASE DESCRIPTION
100% CD - DSA APPROVAL
INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: RT / JL
PROJECT MANAGER: TP
JOB NUMBER: 791

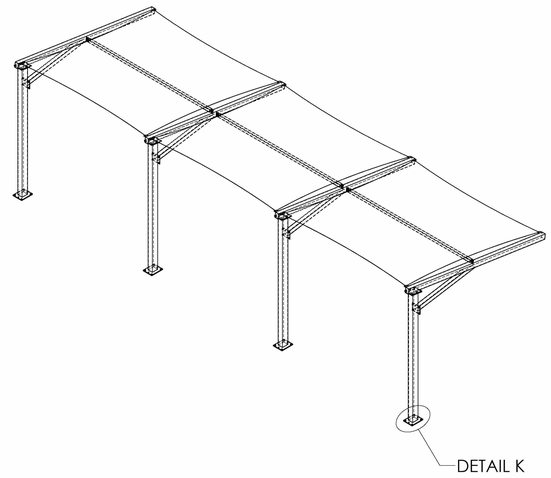
SHEET NUMBER
SH0.5-1

PLOT DATE: 9/19/2025 5:26:34 PM

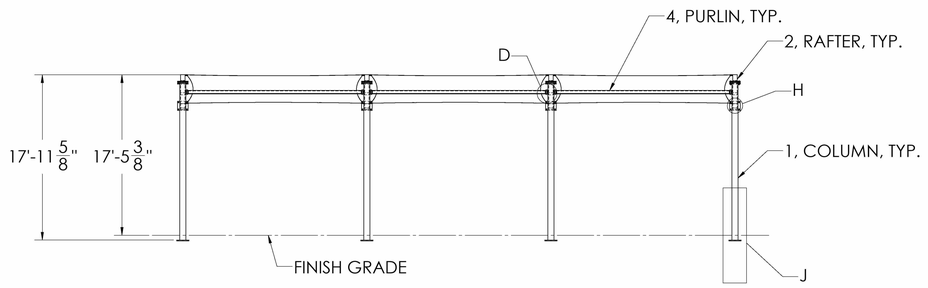
SEE SHEET SH0.7-1 FOR FRAMING AND FABRIC CONNECTION DETAILS A THROUGH K
SEE SHEET SH0.8-1 FOR FOOTING DETAILS J AND K



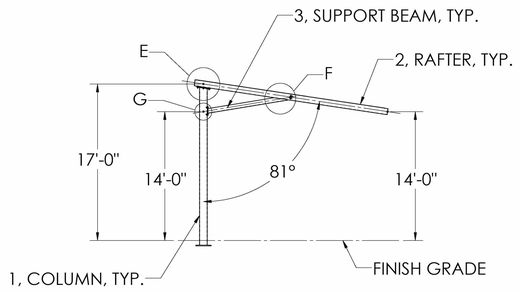
TOP - PLAN VIEW



DETAIL K



FRONT - ELEVATION VIEW



SIDE - ELEVATION VIEW

SEAL

ENGINEER & MANUFACTURER

CUSTOM CANOPIES INC.

11815 BURKE ST,
SANTE FE SPRINGS, CA 90670

PROJECT / LOCATION

TRANQUILITY HIGH SCHOOL

6052 JUANCHE AVE,
TRANQUILLITY, CA 93668

DRAWING NO.

D1436

MODEL

CCB - 60X20X17

DRAWN BY:	IB	DATE:	02/19/2025
CHECKED BY:	HD	DATE:	02/19/2025
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SCALE:	1:80	SHEET 6 OF 8	

REGISTERED PROFESSIONAL ENGINEER JAMES L. MITCHELL S 3081 EXP. 6/30/2025 STRUCTURAL STATE OF CALIFORNIA 4/15/25

CUSTOM CANOPIES INC

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123309 INC: 1
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 9/30/2025

AGD
ARCHITECTURE | DESIGN

ANDREW GOODWIN DESIGNS
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PROJECT

TRANQUILLITY HIGH SCHOOL
INCREMENT 1 AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

PLAN AND ELEVATIONS

PHASE DESCRIPTION
100% CD - DSA APPROVAL
INCREMENT 1

DATE: 9/24/2025

TECHNICIAN: RT / JL

PROJECT MANAGER: TP

JOB NUMBER: 791

SHEET NUMBER

SH0.6-1

PLOT DATE: 9/19/2025 5:26:36 PM

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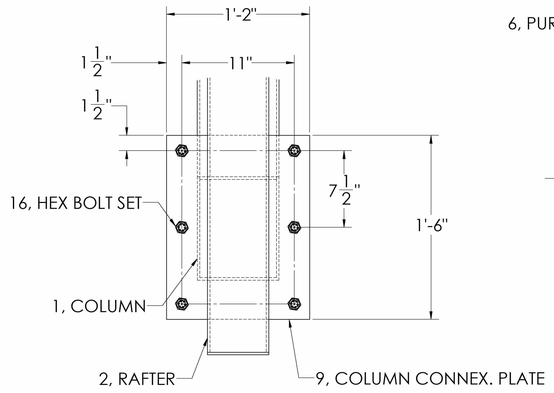
DATE: 9/30/2025

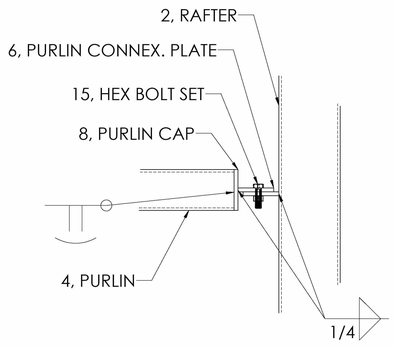
2 1

SEE SHEET SH0.1-1 FOR LIST OF MATERIALS

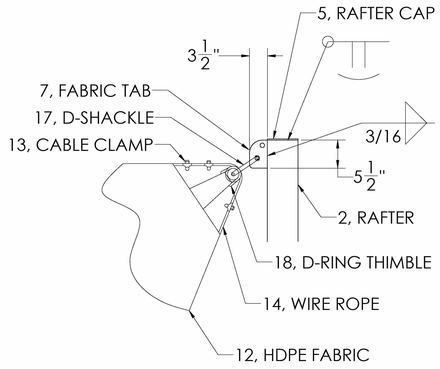
B



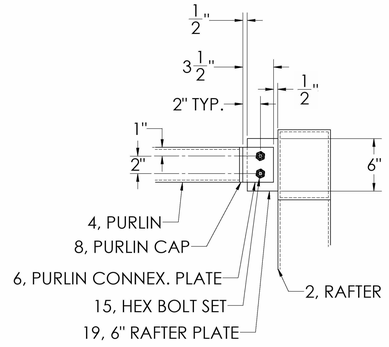
DETAIL A - TOP - PLAN VIEW
COLUMN PLATE TO RAFTER CONNECTION
SCALE 1 : 6
4 PLACES



DETAIL B - TOP - PLAN VIEW
PURLIN TO RAFTER CONNECTION
SCALE 1 : 6
6 PLACES

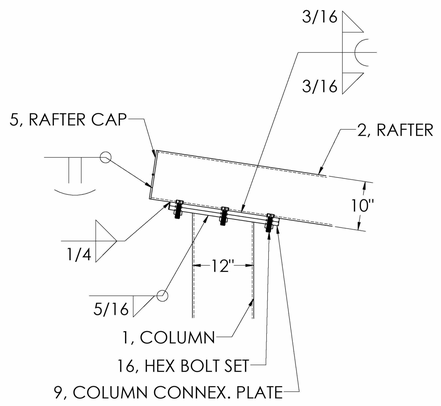


DETAIL C - TOP - PLAN VIEW
FABRIC TAB TO RAFTER CONNECTION
SCALE 1 : 12
12 PLACES

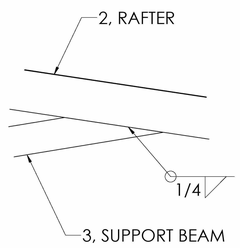


DETAIL D - FRONT - ELEVATION VIEW
PURLIN TO RAFTER CONNECTION
SCALE 1 : 7
6 PLACES

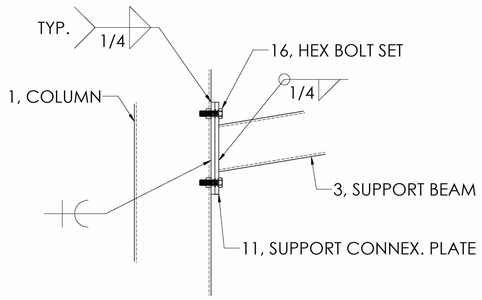
A



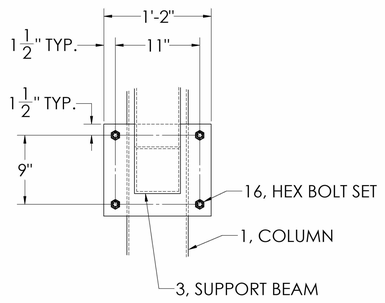
DETAIL E - SIDE - ELEVATION VIEW
COLUMN TO RAFTER CONNECTION
SCALE 1 : 10
4 PLACES



DETAIL F - SIDE - ELEVATION VIEW
SUPPORT BEAM TO RAFTER CONNECTION
SCALE 1 : 12
4 PLACES



DETAIL G - SIDE - ELEVATION VIEW
SUPPORT TO COLUMN CONNECTION
SCALE 1 : 8
4 PLACES



DETAIL H - FRONT - ELEVATION VIEW
SUPPORT TO COLUMN CONNECTION
SCALE 1 : 8
4 PLACES

SEAL

ENGINEER & MANUFACTURER

CUSTOM CANOPIES INC.

11815 BURKE ST,
SANTE FE SPRINGS, CA 90670

PROJECT / LOCATION

TRANQUILITY HIGH SCHOOL

6052 JUANCHE AVE,
TRANQUILLITY, CA 93668

DRAWING NO.

D1436

MODEL

CCB - 60X20X17

DRAWN BY:	IB	DATE:	02/19/2025
CHECKED BY:	HD	DATE:	02/19/2025
SHEET FORMAT:	ARCH. D	REVISION:	A.1
SCALE:	1:64	SHEET 7 OF 8	

4/15/25
REGISTERED PROFESSIONAL ENGINEER
JAMES L. MITCHELL
S 3081
EXP. 6/30/2025
STRUCTURAL
STATE OF CALIFORNIA

CUSTOM CANOPIES INC

AGD
ARCHITECTURE | DESIGN

ANDREW GOODWIN DESIGNS
1238 MONTEREY STREET
SAN LUIS OBISPO, CA 93422
t: (805) 439-1611
www.andrewgoodwin.us

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REVISIONS

REV # | REV DATE | REV DESCRIPTION

SEAL

LICENSED ARCHITECT
ANTONIO PAVONE
C-39088
REN. 9/30/2025
STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
INCREMENT 1 AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

FRAMING & FABRIC CONNECTION DETAILS

PHASE DESCRIPTION
100% CD - DSA APPROVAL
INCREMENT 1

DATE: 9/24/2025

TECHNICIAN: RT / JL

PROJECT MANAGER: TP

JOB NUMBER: 791

SHEET NUMBER

SH0.7-1

PLOT DATE: 9/19/2025 5:26:38 PM

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123309 INC: 1
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 9/30/2025

2 1

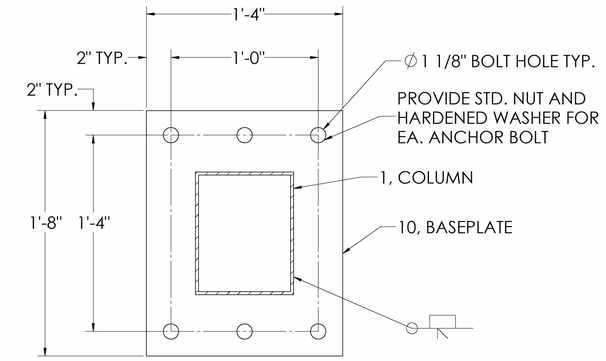
FOUNDATION / FOOTING:
- CONCRETE SHALL HAVE A SPECIFIED MINIMUM COMPRESSIVE STRENGTH OF 4,000 MIN. PSI AT 28 DAYS
- CAST IN PLATE ANCHOR RODS (IF APPLICABLE) SHALL BE ASTM F1554 G36 U.O.N
- COURSE AGRAGTE 1" (MAX)
- SLUMP 4.0 +/- 1"
- W/C RATIO < .45
- ENCASE BASEPLATE AND ANCHOR BOLTS BELOW GRADE WITH SAME CONCRETE MIX TO PROVIDE 3" CLR. COVER

SOIL CAPACITY:
- PER TECHNICON ENGINEERING SERVICES, INC. REPORT TES NO. 240282.001
- ALLOWABLE END BEARING AS STATED ON SHEET 2 OF 7 AND BASED ON TECHNICON REPORT NO. 240282.00
- ALLOWABLE PASSIVE BEARING = 100 PCF X 2 = 200 PCF PER TECHNICON ENGINEERING SERVICES, INC. SUPPLEMENTAL LETTER DATED APRIL 29, 2025 - NOTE TO DISCOUNT TOP 12" OF BURY DEPTH PER TECHNICON

B

- **REINFORCEMENT:**
- REBAR SHALL CONFORM TO ASTM A-615 GRADE 60
- CLEARANCE FROM SOIL SHALL BE A MINIMUM OF 3"

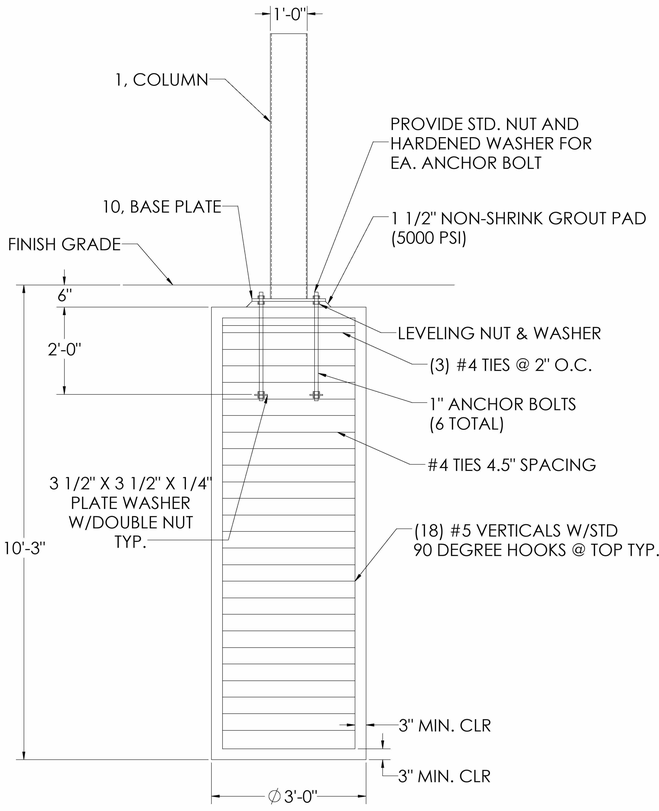
SEE SHEET SH0.1-1 FOR LIST OF MATERIALS



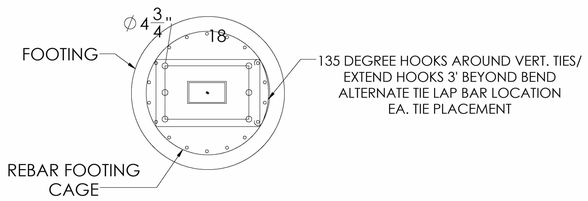
DETAIL K - TOP - PLAN VIEW
BASE PLATE
SCALE 1:5
4 PLACES

A

FOOTING LAYOUT - TOP - PLAN VIEW
BASE PLATE ORIENTATION
SCALE 1 : 50



DETAIL J - FRONT - ELEVATION VIEW
FOOTING SECTION
N.T.S.
4 PLACES



DETAIL K - TOP - PLAN VIEW
FOOTING SECTION
N.T.S.
4 PLACES

SEAL

ENGINEER & MANUFACTURER
CUSTOM CANOPIES INC.
11815 BURKE ST,
SANTE FE SPRINGS, CA 90670

PROJECT / LOCATION
TRANQUILITY HIGH SCHOOL
6052 JUANCHE AVE,
TRANQUILLITY, CA 93668

DRAWING NO.
D1436

MODEL
CCB - 60X20X17

DRAWN BY:	IB	DATE:	02/19/2025
CHECKED BY:	HD	DATE:	02/19/2025
SHEET FORMAT:	ARCH. D	REVISION:	A.1
SCALE:	1:50	SHEET 8 OF 8	

REGISTERED PROFESSIONAL ENGINEER JAMES L. MITCHELL S 3081 EXP. 6/30/2025 STRUCTURAL STATE OF CALIFORNIA 4/15/25

CUSTOM CANOPIES INC

AGD ARCHITECTURE | DESIGN
ANDREW GOODWIN DESIGNS
1238 MONTEREY STREET
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REVISIONS
REV # | REV DATE | REV DESCRIPTION

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LICENSED ARCHITECT ANTONIO PAVONE C-39088 REN. 9/30/2025 STATE OF CALIFORNIA

PROJECT
TRANQUILLITY HIGH SCHOOL
INCREMENT 1 AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT
GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE
FOUNDATION PLAN AND DETAILS

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

DATE: 9/24/2025
TECHNICIAN: RT / JL
PROJECT MANAGER: TP
JOB NUMBER: 791
SHEET NUMBER
SH0.8-1

PLOT DATE: 9/19/2025 5:26:40 PM

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS, 2022 CBC

*Application Number: 04-122194 DSA File Number:	School Name: Pre Check Increment Number:	School District: Daktronics, Inc. Date Created: 2023-04-20 22:42:50

2022 CBC

IMPORTANT: This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A (2022 CBC).

**NOTE: Undefined section and table references found in this document are from the CBC, or California Building Code.

KEY TO COLUMNS

1. TYPE	2. PERFORMED BY
Continuous Indicates that a continuous special inspection is required	GE (Geotechnical Engineer) Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative.
Periodic Indicates that a periodic special inspection is required	LOR (Laboratory of Record) Indicates that the test or special inspection shall be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See CAC Section 4-335.
Test Indicates that a test is required	PI (Project Inspector) Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA.
	SI (Special Inspection) Indicates that the special inspection shall be performed by an appropriately qualified/approved special inspector.

THE REST OF THE DSA 103 FORM CONTINUES ON SHEETS 2 & 3.

CHECKLIST OF DESIGN PARAMETERS:

- RISK CATEGORY: II
- WIND SPEED: 100 MPH OR 130 MPH, AS SELECTED FROM TABLES ON SHEETS 8 THRU 10
- ALL CONNECTIONS AND MOUNTING DETAILS DESIGNED FOR 130MPH.
- EXPOSURE: C
- Kzt = 1.0, Kd = 0.85, g = 0.85
- LATERAL FORCE-RESISITING SYSTEM: SIGNS & BILLBOARDS
- ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE
- SEISMIC DESIGN CATEGORY: E
- SEISMIC IMPORTANCE FACTOR: Ie = 1.0
- SITE CLASS: D (E & F ARE NOT ALLOWED)
- Ss: 3.00
- S1: 1.50
- SDS: 2.00
- SD1: 1.70
- Fv = 1.7
- Fa = 1.0
- R = 3.0
- Cs: 0.67
- DESIGN BASE SHEAR: V = 0.67*W
- IF PROJECT IS LOCATED IN A FLOOD ZONE OTHER THAN ZONE X, A LETTER STAMPED AND SIGNED FROM A SOILS ENGINEER IS NEEDED TO VALIDATE THE ALLOWABLE SOIL VALUES SPECIFIED IN THIS PC ARE STILL APPLICABLE.
- GEOHAZARD REPORTS ARE NOT REQUIRED FOR NON-BUILDING FREESTANDING SIGN AND SCOREBOARD STRUCTURES. REF. IR A-4
- CUT SHEETS FOR MANUFACTURED EQUIPMENT ARE REQUIRED.
- THERE ARE NO APPLICABLE FIRE, LIFE SAFETY, OR ENERGY/CLIMATE DESIGN PARAMETERS.

GENERAL / CODE INFORMATION

DAKTRONICS DA-1001-20 ARCHED TRUSS

DAKTRONICS BA-2030-A-PV SOFTBALL SCOREBOARD

DAKTRONICS BA-2030 PRODUCT SPECIFICATIONS

		VINYL CAPTIONS (STANDARD)	TNMCS & VINYL CAPTIONS
POWER (120 VAC)*	Red/Amber Digits	230 Watts, 1.9 Amps	500 Watts, 4.2 Amps
	White Digits	495 Watts, 4.1 Amps	765 Watts, 6.4 Amps
UNCRATED WEIGHT		600 lb (272 kg)	680 lb (308 kg)
DIMENSIONS		6'-6" H x 20'-0" W x 8" D (1.98 m, 6.10 m, 203 mm)	

DAKTRONICS DA-1001 PRODUCT SPECIFICATIONS

MODEL	HEIGHT	WIDTH	DEPTH	WEIGHT
DA-1001-12	2'-0" (610 mm)	12'-0" (3.66 m)	3" (76 mm)	120 lb (54 kg)
DA-1001-14	3'-0" (914 mm)	14'-0" (4.27 m)	3" (76 mm)	170 lb (77 kg)
DA-1001-15	3'-0" (914 mm)	15'-0" (4.57 m)	3" (76 mm)	180 lb (82 kg)
DA-1001-16	3'-0" (914 mm)	16'-0" (4.88 m)	3" (76 mm)	185 lb (84 kg)
DA-1001-18	3'-0" (914 mm)	18'-0" (5.49 m)	3" (76 mm)	225 lb (102 kg)
DA-1001-20	3'-0" (914 mm)	20'-0" (6.10 m)	3" (76 mm)	240 lb (109 kg)
DA-1001-25	4'-0" (1.22 m)	25'-0" (7.62 m)	3" (76 mm)	340 lb (154 kg)
DA-1001-32	5'-0" (1.52 m)	32'-0" (9.75 m)	3" (76 mm)	465 lb (211 kg)
DA-1001-36	5'-0" (1.52 m)	36'-0" (10.97 m)	3" (76 mm)	500 lb (227 kg)

SHEET SB0.1, SCOREBOARD PC COVER SHEET
SHEET SB0.2, DSA 103 SPECIAL INSPECTION FORM
SHEET SB0.3, DSA 103 SPECIAL INSPECTION FORM (CONT.)
SHEET SB0.4, EQUIPMENT MOUNTING DETAILS (WITHOUT VIDEO DISPLAY)
~~SHEET SB0.5, EQUIPMENT MOUNTING DETAILS (WITH VIDEO DISPLAY)~~
SHEET SB0.6, DECORATIVE ACCENT TRUSS LAYOUT
~~SHEET SB0.7, SPORTSOUND 500 ATTACHMENT DETAILS~~
~~SHEET SB0.8, SPORTSOUND 1500HD MOUNTING DETAILS~~
SHEET SB0.9, TWO-COLUMN STRUCTURE DETAILS WITH PIER FOUNDATIONS
~~SHEET SB1.0, THREE-COLUMN STRUCTURE DETAILS WITH PIER FOUNDATIONS~~
~~SHEET SB1.1, SPORTSOUND 1500HD SINGLE POLE MOUNTING~~

DRAWING INDEX

SCOPE: CONSTRUCTION OF 2- OR 3-COLUMN STRUCTURES FOR USE WITH DAKTRONICS SIGNS.

INSPECTOR OF RECORD, CLASS 2

PRECHECK DRAWING CHANGES:
CHANGES IN THE PLANS AND SPECIFICATION SHALL BE MADE BY REVISION DOCUMENTS APPROVED BY DSA. (2022 CALIFORNIA ADMINISTRATIVE CODE SECTION 4-338)

SITE SPECIFIC ARCHITECTURAL DRAWING CHANGES:
ALL WORK SHALL CONFORM TO TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR) CHANGES TO THE APPROVED DRAWING AND SPECIFICATION SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF STATE ARCHITECTS, AS REQUIRED BY SECTION 4-338 PART 1 TITLE 24 CCR.

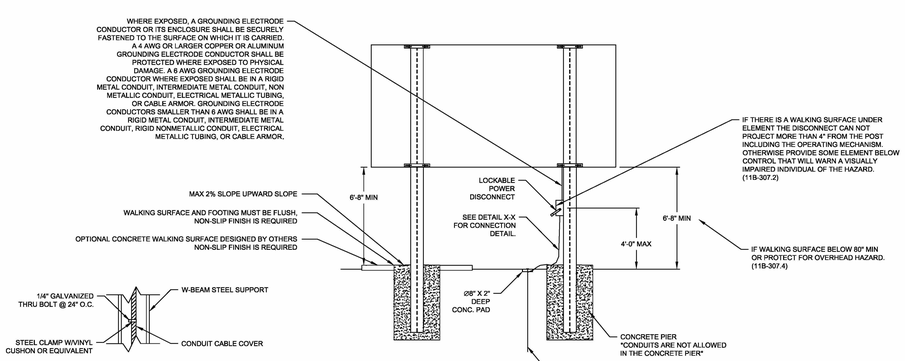
A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT, OWNER AND APPROVED BY THE DIVISION OF STATE ARCHITECTS SHALL PROVIDE SPECIAL INSPECTION OF THE WORK, THE DUTIES OF THE INSPECTION ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24 CODE.

TITLE 24 CODES

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC)..... (PART 1, TITLE 24 CCR)
2022 CALIFORNIA BUILDING CODE (CBC), VOLUMES 1 AND 2..... (PART 2, TITLE 24 CCR
2022 CALIFORNIA ELECTRICAL CODE..... (PART 3, TITLE 24 CCR)
2022 CALIFORNIA MECHANICAL CODE (CMC)..... (PART 4, TITLE 24 CCR)
2022 CALIFORNIA PLUMBING CODE..... (PART 5, TITLE 24 CCR)
2022 CALIFORNIA ENERGY CODE..... (PART 6, TITLE 24 CCR)
2022 CALIFORNIA FIRE CODE (CFC)..... (PART 9, TITLE 24 CCR)
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE..... (PART 11, TITLE 24 CCR)
2022 CALIFORNIA REFERENCED STANDARDS CODE..... (PART 12, TITLE 24 CCR)

REFERENCE CODE SECTIONS FOR APPLICABLE STANDARDS
2022 CBC, CHAPTER 35
2022 CFC, CHAPTER 80

GENERAL REQUIREMENTS
THE ARCHITECT OR STRUCTURAL ENGINEER IN GENERAL RESPONSIBLE CHARGE SHALL SIGN AND SEAL ALL DRAWINGS AND SPECIFICATIONS.



CONDUIT CONNECTION DETAIL
DETAIL X-X

GROUNDING DETAIL

NOTE:

ALL DISPLAYS MUST BE GROUNDED PER ARTICLE 250 AND 600 OF THE CALIFORNIA ELECTRICAL CODE WITH NO MORE THAN 10 OHMS GROUND RESISTANCE.

ALUMINUM: ALL ALUMINUM MEMBER GRADE 6061-T6 (UNLESS NOTED OTHERWISE)
CORROSION RESISTANT MATERIAL SHALL BE PROVIDED BETWEEN FERROUS METAL (STEEL) AND NON-FERROUS METAL (ALUMINUM).

STEEL: DESIGN AND FABRICATION IN ACCORDANCE WITH AISC-ASD, 15th EDITION.
WIDE FLANGE SHAPES ASTM A992 (Fy = 50 ksi)
BOLTS SS304 F593C CW1. Fu=100 KSI OR A325 WITH CORROSION-PREVENTITIVE COATING THAT DEMONSTRATED NO MORE THAN 2% RED RUST IN MINIMUM 1,000 HOURS OF EXPOSURE IN SALT SPRAY TEST PER ASTM B117.
ZINC PLATED FASTENERS DO NOT COMPLY WITH THIS REQUIREMENT AND GALVANIZED HARDWARE IS NOT COMPATIBLE WITH ALL MANUFACTURED EQUIPMENT.
REINFORCING STEEL ASTM 615, GRADE 60 (Fy = 60 ksi)
HSS SHAPES ASTM A500 GR C (Fy = 50 ksi)
STRUCTURAL STEEL SHALL BE HOT-DIP GALVANIZED (MINIMUM ASTM A123 OR A153 CLASS D, AS APPLICABLE) OR PAINTED WITH ZINC-RICH PRIMER, UNDERCOAT, AND FINISH COAT; OR EQUIVALENT PAINT SYSTEM.

WELDING: DESIGN AND FABRICATION ACCORDING TO AWS D1.1, CURRENT EDITION, AWS CERTIFICATION REQUIRED OF ALL STRUCTURAL WELDERS.
E70XX ELECTRODES FOR SMAW PROCESSES
F7X-EXXX ELECTRODES FOR SAW PROCESSES
PROVIDE PERIODIC SPECIAL INSPECTION FOR FIELD WELDING PER 2022 CBC, TABLE 1705A.2.1

CONCRETE: DESIGN AND CONSTRUCTION ACCORDING TO ACI 318-19.
TYPE V CEMENT, MAXIMUM WATER-TO-CEMENT RATIO = 0.45
COMPRESSIVE STRENGTH AT 28 DAYS (Fc) = 4500 PSI, MIN.
CONTINUOUS BATCH PLANT INSPECTION NOT REQUIRED.
PROVIDE SLOPE AWAY FROM BASE OF SUPPORTS.
CONCRETE POURED INTO CONSTRAINED EARTH EXCAVATIONS MUST CURE UNDER PROPER CONDITIONS FOR 4 DAYS PRIOR TO SIGN CABINET INSTALLATION.
EXCEPTION: IF THE OVERALL HEIGHT OF THE SIGN IS LESS THAN 20 FEET ABOVE GRADE AND THE SIGN POLE IS ADEQUATELY BRACED AGAINST WIND LOADS FOR A MINIMUM OF 4 DAYS, THE SIGN CABINET MAY BE INSTALLED THE SAME DAY THE FOOTING IS POURED.

SOILS: SOIL PASSIVE PRESSURE BASED ON 2022 CBC, TABLE 1806A.2, CLASS 5.
LATERAL BEARING PRESSURE = 100 PSF/FT (THIS VALUE IS INCREASED IN THE CALCULATIONS PER CBC SECTION 1806A.3.4 FOR POLE FOOTING DESIGN)
INSPECTOR OF RECORD (IR) SHALL PROVIDE INSPECTION OF SOILS PER TEST AND INSPECTION FORM DSA-103. (IF SOFT OR SANDY SOIL, COLLAPSING OR UNSTABLE SOIL, CORROSIVE SOIL, ORGANIC MATERIALS OR GROUNDWATER ARE ENCOUNTERED, IMMEDIATELY CONTACT THE ARCHITECT OR ENGINEER OF RECORD FOR ADDITIONAL FOUNDATION REQUIREMENTS.)

TESTING & QUALITY CONTROL:
UNLESS NOTED OTHERWISE, CONCRETE MATERIALS SHALL CONFORM TO CHAPTER 19A, SPECIAL INSPECTIONS AND TESTS SHALL BE REQUIRED PER TABLE 1705A.3. FOUNDATION INSPECTION SHALL BE REQUIRED PER 1705A.6.
STEEL SPECIAL INSPECTION AND TESTS SHALL BE REQUIRED PER TABLE 1705A.2.1.

NOTES: SIGN CABINETRY SHALL BE FABRICATED TO PROVIDE ISOLATION OF DISSIMILAR MATERIALS.

DAKTRONICS HAS DESIGNED THE DISPLAY COMPONENTS AND THEIR MOUNTING PER CBC 2022 AND THEY ARE IN COMPLIANCE WITH THE CURRENT CODES.

CONSTRUCTION SPECIFICATIONS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123309 INC: 1
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 9/30/2025

PRE-CHECK (PC) DOCUMENT

CODE: 2022 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

VECTOR ENGINEERS
WELLS L. HOLMES, S.E.
691 W. GALENA PARK BLVD. STE. 101
DRAPER, UTAH 84020
(801) 990-1775
(801) 990-1776 FAX

REGISTERED PROFESSIONAL ENGINEER WELLS HOLMES STRUCTURAL STATE OF CALIFORNIA
8/2023
08/07/2023

STRUCTURAL ENGINEER OF RECORD

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122194 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☐ CASLB ☐
DATE: 09/18/2023

PROJECT-SPECIFIC APPROVALS

Quote: 866455-1-0

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required.

AGD ARCHITECTURE | DESIGN
ANDREW GOODWIN DESIGNS
1238 MONTEREY STREET
SAN LUIS OBISPO, CA 93422
t: (805) 439-1611
www.andrewgoodwin.us

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REVISIONS

REV #	REV DATE	REV DESCRIPTION

SEAL

LICENSED ARCHITECT ANTONIO PAVONE C-39093 REN. 9/30/2025 STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
INCREMENT 1 AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

SCOREBOARD PC COVER

PHASE DESCRIPTION
100% CD - DSA APPROVAL
INCREMENT 1

DATE: 9/24/2025

TECHNICIAN: RT / JL

PROJECT MANAGER: TP

JOB NUMBER: 791

SHEET NUMBER
SB0.1-1

PLOT DATE: 9/19/2025 5:26:42 PM

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DAKTRONICS			THIRD ANGLE PROJECTION	
PROJECT:	2022 CBC DSA PRE-CHECK DRAWINGS			
TITLE:	SHEET 1, SCOREBOARD PC COVER SHEET			
DATE:	8 MAR 23	DIM UNITS: INCHES [MILLIMETERS]	SHEET	REV
SCALE:	1/4" = 1'-0"	DO NOT SCALE DRAWING	SB0.1	A
DESIGN:	KKURTEN	JOB NO.	FUNC. TYPE - SO	5224617
DRAWN:	SEASTMA	P2236	F_10_D	

COLUMN IS A W-FLANGE.
MAXIMUM FLANGE WIDTH IS 16".

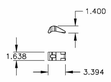
MINIMUM CLAMPS PER SECTION:
2 COLUMN STRUCTURES: 8
3 COLUMN STRUCTURES: 12
INSTALL TORQUE: 40 FT*LBS

MAXIMUM SECTION HEIGHT IS 10'-0"

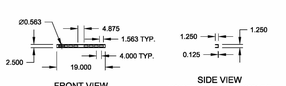
MAXIMUM SECTION WEIGHT
-12 PSF

I-BEAM LIMITATIONS
-MIN. FLANGE THICKNESS = 3/16"
-MAX.FLANGE THICKNESS = 3/4"
-IF THE I-BEAM FLANGE THICKNESS IS GREATER THAN SPECIFIED, LONGER BOLTS WILL BE REQUIRED AT THE CUSTOMER'S EXPENSE. MAX LENGTH OF REPLACEMENT BOLT IS 3.5". MUST BE SS304 BOLTS.

MOUNTING DETAIL 1

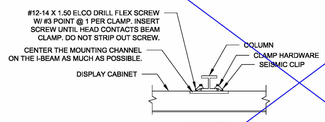


LAYOUT VIEW
AD PANEL CLAMP
(6061-T6 ALUMINUM)

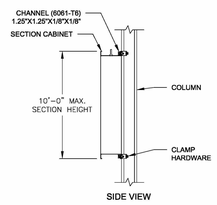

Ø0.563
4.875
1.563 TYP.
4.000 TYP.
2.500
19.000
1.250
1.250
0.125

FRONT VIEW
MOUNTING CHANNEL (6061-T6)
FOR USE WITHOUT 3 1/4" UNISTRUT

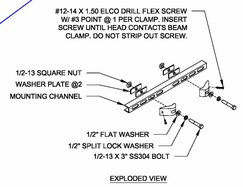
SIDE VIEW
MOUNTING CHANNEL (6061-T6)
FOR USE WITHOUT 3 1/4" UNISTRUT



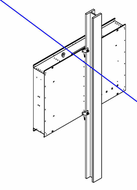
TOP VIEW



SIDE VIEW



EXPLODED VIEW



ISOMETRIC VIEW

COLUMN IS A W-FLANGE.
MAXIMUM FLANGE WIDTH IS 16".

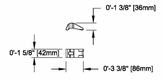
MINIMUM CLAMPS PER SECTION:
2 COLUMN STRUCTURES: 8
3 COLUMN STRUCTURES: 12
INSTALL TORQUE: 40 FT*LBS

MAXIMUM SECTION HEIGHT IS 2'-6"

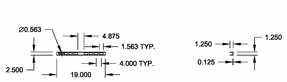
MAXIMUM SECTION WEIGHT
-12 PSF

I-BEAM LIMITATIONS
-MIN. FLANGE THICKNESS = 3/16"
-MAX.FLANGE THICKNESS = 3/4"
-IF THE I-BEAM FLANGE THICKNESS IS GREATER THAN SPECIFIED, LONGER BOLTS WILL BE REQUIRED AT THE CUSTOMER'S EXPENSE. MAX LENGTH OF REPLACEMENT BOLT IS 3.5". MUST BE SS304 BOLTS.

MOUNTING DETAIL 2

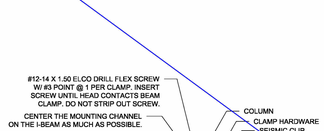


LAYOUT VIEW
AD PANEL CLAMP
(6061-T6 ALUMINUM)

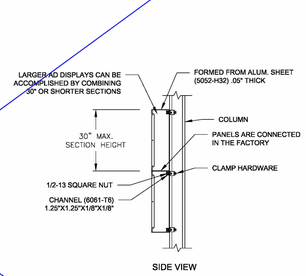

Ø0.563
4.875
1.563 TYP.
4.000 TYP.
2.500
19.000
1.250
1.250
0.125

FRONT VIEW
MOUNTING CHANNEL (6061-T6)
FOR USE WITHOUT 3 1/4" UNISTRUT

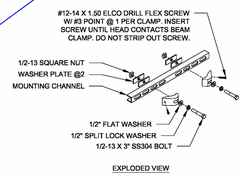
SIDE VIEW
MOUNTING CHANNEL (6061-T6)
FOR USE WITHOUT 3 1/4" UNISTRUT



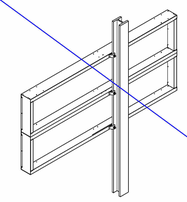
TOP VIEW



SIDE VIEW



EXPLODED VIEW



ISOMETRIC VIEW

COLUMN IS A W-FLANGE.
MAXIMUM FLANGE WIDTH IS 16".

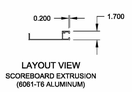
MINIMUM CLAMPS PER SECTION:
2 COLUMN STRUCTURES: 8
3 COLUMN STRUCTURES: 12
INSTALL TORQUE: 40 FT*LBS

MAXIMUM SECTION HEIGHT IS 6'-6"

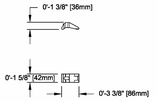
MAXIMUM SECTION WEIGHT
-12 PSF

I-BEAM LIMITATIONS
-MIN. FLANGE THICKNESS = 3/16"
-MAX.FLANGE THICKNESS = 3/4"
-IF THE I-BEAM FLANGE THICKNESS IS GREATER THAN SPECIFIED, LONGER BOLTS WILL BE REQUIRED AT THE CUSTOMER'S EXPENSE. MAX LENGTH OF REPLACEMENT BOLT IS 3.5". MUST BE SS304 BOLTS.

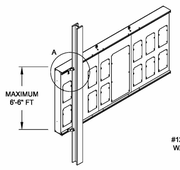
MOUNTING DETAIL 3



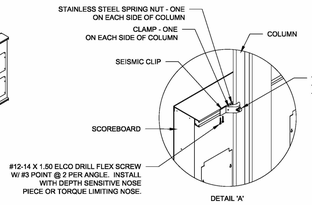
LAYOUT VIEW
SCOREBOARD EXTRUSION
(6061-T6 ALUMINUM)



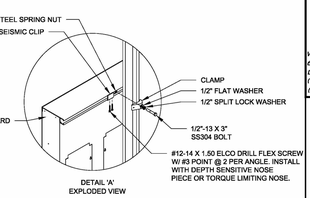
LAYOUT VIEW
SCOREBOARD CLAMP
(6061-T6 ALUMINUM)



ISOMETRIC VIEW



DETAIL 'A'



DETAIL 'A'
EXPLODED VIEW

PRE-CHECK (PC) DOCUMENT

CODE: 2022 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

VECTOR ENGINEERS
WELLS L. HOLMES, S.E.
651 W. GALENA PARK BLVD. STE. 101
DRAPER, UTAH 84020
(801) 990-1775
(801) 990-1776 FAX

REGISTERED PROFESSIONAL ENGINEER
WELLS HOLMES
S.E.
No. S-8203
STRUCTURAL
STATE OF CALIFORNIA

08/07/2023

STRUCTURAL ENGINEER OF RECORD

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122194 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 09/18/2023

PROJECT-SPECIFIC APPROVALS

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required.

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THIRD ANGLE PROJECTION

PROJECT:	2022 CBC DSA PRE-CHECK DRAWINGS
TITLE:	SHEET 4: MOUNTING DETAILS W/O VIDEO DISPLAY
DATE:	8 MAR 23
DIM UNITS:	INCHES [MILLIMETERS]
SHEET:	SB0.4
REV:	A
SCALE:	1/4" = 1'-0"
	DO NOT SCALE DRAWING
DESIGN:	KKJIRTEN
JOB NO:	P2236
FUNC - TYPE - SUS:	F - 10 - D
	5224620
DRAWN:	SEASTMA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123309 INC: 1
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 9/30/2025

AGD ARCHITECTURE | DESIGN
ANDREW GOODWIN DESIGNS
1238 MONTEREY STREET
SAN LUIS OBISPO, CA 93422
t: (805) 439-1611
www.andrewgoodwin.us

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REVISIONS

REV # | REV DATE | REV DESCRIPTION

SEAL

LICENSED ARCHITECT
ANTONIO PAVONE
C-39093
REN. 9/30/2025
STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
INCREMENT 1 AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

EQUIPMENT MOUNTING DETAILS (WITHOUT VIDEO DISPLAY)

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

DATE: 9/24/2025

TECHNICIAN: RT / JL

PROJECT MANAGER: TP

JOB NUMBER: 791

SHEET NUMBER
SB0.4-1

PLOT DATE: 9/19/2025 5:26:44 PM

COLUMN IS A W-FLANGE.
MAXIMUM FLANGE WIDTH IS 16".

MINIMUM CLAMPS PER SECTION:
2 COLUMN STRUCTURES: 8
3 COLUMN STRUCTURES: 12
INSTALL TORQUE: 40 FT*LBS

MAXIMUM SECTION HEIGHT IS 5'-0"

MAXIMUM SECTION WEIGHT
LESSER OF
-12 PSF

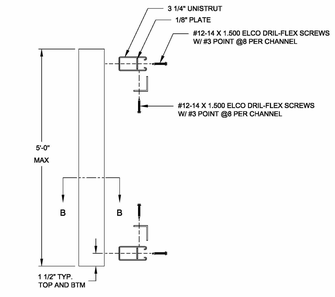
I-BEAM LIMITATIONS
-MIN. FLANGE THICKNESS = 3/16"
-MAX FLANGE THICKNESS = 3/4"
-IF THE I-BEAM FLANGE THICKNESS IS GREATER THAN SPECIFIED, LONGER BOLTS WILL BE REQUIRED AT THE CUSTOMERS EXPENSE. MAX LENGTH OF REPLACEMENT BOLT IS 3.5". MUST BE SS304 BOLTS.

LETTERING AND LOGOS ARE NOT TO COVER MORE THAN 50% OF THE DECORATIVE ELEMENT.

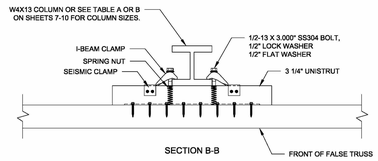
DESIGNED TO A CASE A WIND PRESSURE OF 34.5 psf (SERVICE LEVEL)

DECORATIVE ELEMENT COMPONENTS HAVE BEEN DESIGNED TO THE REQUIREMENTS OF CBC 2022 AND THE PARAMETERS LISTED ON THE NOTES PAGE. THESE ELEMENTS ARE NOT SUBJECT TO DSA REVIEW OR SPECIAL WELD INSPECTIONS.

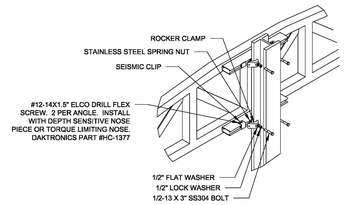
MOUNTING DETAIL 8
DECORATIVE (NONSTRUCTURAL)
TRUSS ATTACHMENT



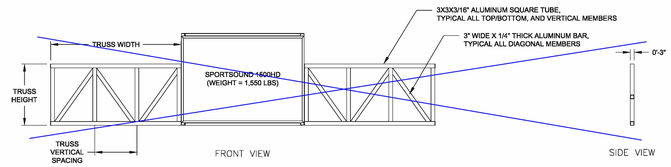
REFER TO DRAWING #4682220, SHEET 4, MOUNTING DETAIL #4 FOR TRUSS FABRICATION DETAILS.

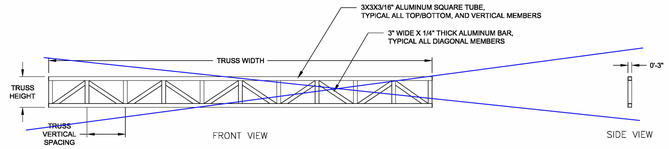


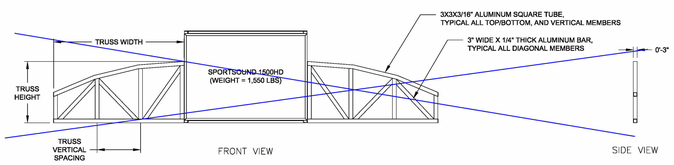
SECTION B-B

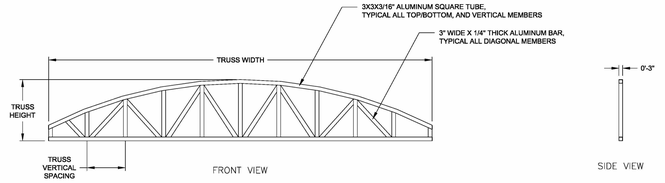


EXPLODED REAR ISOMETRIC VIEW
DECORATIVE TRUSS ATTACHMENT









SPORTSOUND FLANKING ACCENT TRUSS

CHECK OPTION	TRUSS WIDTH (FT)	TRUSS HEIGHT (FT)	MAXIMUM VERTICAL SPACING	NUMBER OF SUPPORTS PER TRUSS	MINIMUM SUPPORT SPACING	MAXIMUM SUPPORT SPACING
	3'-0"	3'-0"	2'-0"	2	1'-6"	2'-0"
	5'-0"	3'-0"	2'-6"	2	2'-3"	3'-0"
	5'-0"	4'-0"	2'-6"	2	2'-3"	3'-0"
	6'-0"	3'-0"	3'-0"	2	2'-10"	3'-0"
	6'-0"	4'-0"	3'-0"	2	2'-10"	3'-0"
	8'-6"	3'-0"	2'-10"	2	2'-9"	3'-4"
	8'-6"	4'-0"	2'-10"	2	2'-9"	3'-4"
	10'-0"	3'-0"	3'-4"	2	3'-3"	5'-0"
	10'-0"	4'-0"	3'-4"	2	3'-3"	5'-0"
	12'-0"	3'-0"	3'-0"	2	5'-10"	6'-11"
	12'-0"	4'-0"	3'-0"	2	5'-10"	6'-11"
	12'-6"	3'-0"	3'-4"	2	6'-2"	6'-11"
	12'-6"	4'-0"	3'-4"	2	6'-2"	6'-11"
	14'-0"	3'-0"	3'-6"	2	6'-9"	6'-11"
	14'-0"	4'-0"	3'-6"	2	6'-9"	6'-11"

FULL WIDTH ACCENT TRUSS

CHECK OPTION	TRUSS WIDTH (FT)	TRUSS HEIGHT (FT)	MAXIMUM VERTICAL SPACING	NUMBER OF SUPPORTS	MINIMUM SUPPORT SPACING	MAXIMUM SUPPORT SPACING
	14'-0"	2'-0"	2'-6"	2	8'-6"	11'-0"
	14'-0"	3'-0"	3'-6"	2	8'-6"	11'-0"
	14'-0"	4'-0"	3'-6"	2	8'-6"	11'-0"
	16'-0"	2'-0"	3'-0"	2	8'-6"	11'-6"
	16'-0"	3'-0"	3'-0"	2	8'-6"	11'-6"
	18'-0"	2'-0"	2'-6"	2	11'-0"	13'-0"
	18'-0"	3'-0"	3'-6"	2	11'-0"	13'-0"
	20'-0"	2'-0"	2'-6"	2	12'-0"	14'-0"
✓	20'-0"	3'-0"	3'-6"	2	12'-0"	14'-0"
	25'-6"	3'-0"	3'-6"	2	14'-0"	16'-0"
	25'-6"	4'-0"	3'-6"	2	14'-0"	16'-0"
	27'-0"	2'-0"	2'-10"	3	9'-0"	11'-0"
	27'-0"	4'-0"	3'-6"	3	9'-0"	11'-0"
	28'-0"	2'-0"	2'-10"	3	9'-6"	11'-6"
	28'-0"	3'-0"	3'-8"	3	9'-6"	11'-6"
	28'-0"	4'-0"	3'-8"	3	9'-6"	11'-6"
	30'-0"	3'-0"	3'-6"	3	10'-0"	12'-0"
	30'-0"	4'-0"	3'-8"	3	10'-0"	12'-0"
	30'-0"	5'-0"	3'-8"	3	10'-0"	12'-0"
	32'-0"	4'-0"	3'-6"	3	10'-6"	13'-0"
	32'-0"	5'-0"	3'-8"	3	10'-6"	13'-0"
	36'-0"	4'-0"	3'-8"	3	12'-0"	14'-0"
	36'-0"	5'-0"	3'-8"	3	12'-0"	14'-0"

DAKTRONICS

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THIRD ANGLE PROJECTION

PROJECT:	2022 CBC DSA PRE-CHECK DRAWINGS		
TITLE:	SHEET 6; DECORATIVE ACCENT TRUSS LAYOUT		
DATE:	18 JUL 23	DW UNITS: INCHES [MILLIMETERS]	SHEET: SB0.6
SCALE:	1/4" = 1'-0"	DO NOT SCALE DRAWING	REV: A
DESGN:	KKURTEN	JOB NO: P2236	FUNC - TYPE - SER: F - 10 - D
DRAWN:	MLEOPOL		5304752

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123309 INC: 1
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 9/30/2025

AGD
ARCHITECTURE | DESIGN

ANDREW GOODWIN DESIGNS
1238 MONTEREY STREET
SAN LUIS OBISPO, CA 93422
t: (805) 439-1611
www.andrewgoodwin.us

DSA PRECHECK DRAWINGS

VECTOR ENGINEERS
WELLS L. HOLMES, S.E.
651 W. GALENA PARK BLVD. STE. 101
DRAPER, UTAH 84020
(801) 990-1775
(801) 990-1776 FAX

REGISTERED PROFESSIONAL ENGINEER WELLS HOLMES S 8203 STRUCTURAL STATE OF CALIFORNIA

08/07/2023

STRUCTURAL ENGINEER OF RECORD

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122194 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 09/18/2023

PROJECT-SPECIFIC APPROVALS

PRE-CHECK (PC) DOCUMENT
Code: 2019 CBC
A separate project application for construction is required.

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REVISIONS

REV #	REV DATE	REV DESCRIPTION

SEAL

LICENSED ARCHITECT
ANTONIO PAVONE
C-39089
REN: 9/30/2025
STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
INCREMENT 1 AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

DECORATIVE ACCENT TRUSS LAYOUT

PHASE DESCRIPTION
100% CD - DSA APPROVAL INCREMENT 1

DATE: 9/24/2025

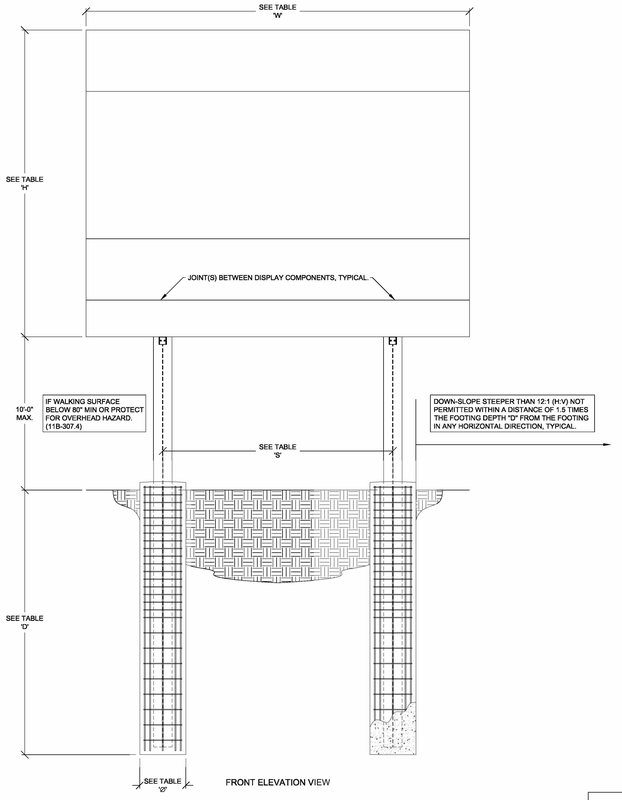
TECHNICIAN: RT / JL

PROJECT MANAGER: TP

JOB NUMBER: 791

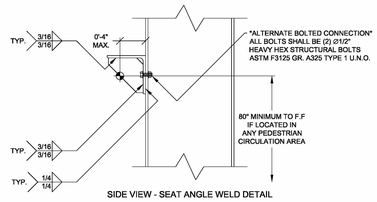
SHEET NUMBER
SB0.6-1

PLOT DATE: 9/19/2025 5:26:46 PM

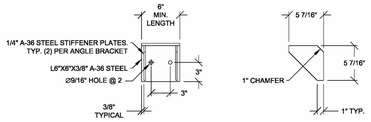


FRONT ELEVATION VIEW

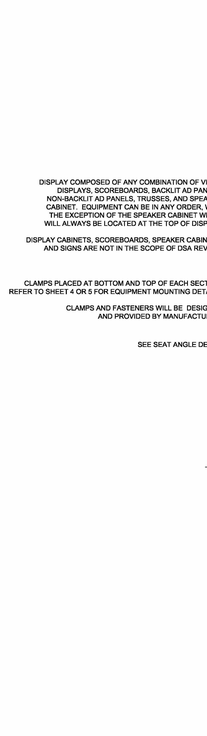
FOUNDATION PLAN VIEW



SIDE VIEW - SEAT ANGLE WELD DETAIL

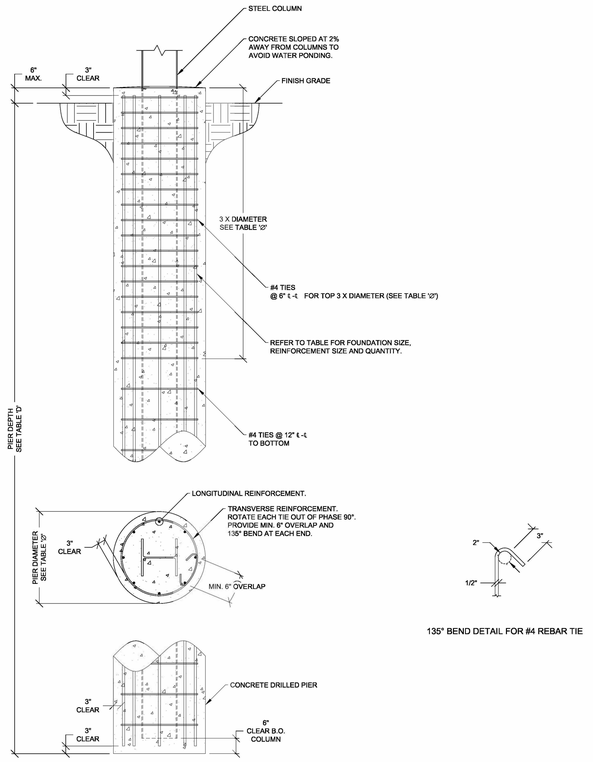


SEAT ANGLE DETAIL
MAXIMUM CAPACITY = 5,750 LBS. PER SEAT
SEAT ANGLE IS REQUIRED AT BOTTOM OF DISPLAY STACKS
TYPICAL AT EACH COLUMN



SCOREBOARD SIDE ELEVATION VIEW
SEE SHEET 4 FOR MOUNTING DETAILS

VIDEO DISPLAY SIDE ELEVATION VIEW
SEE SHEET 5 FOR MOUNTING DETAILS



CONCRETE DRILLED PIER - SIDE PLAN VIEW
N.T.S.

135° BEND DETAIL FOR #4 REBAR TIE

TABLE A - STANDARD WIND REGIONS (100 MPH)

CHECK OPTION	OVERALL DIMENSIONS "MAX. HEIGHT 'H' (FT)"	OVERALL DIMENSIONS "MAX. WIDTH 'W' (FT)"	OVERALL DIMENSIONS MAX. DISPLAY WEIGHT (LBS)	COLUMNS "SPACING 'S' (FT)"	COLUMNS SIZE	PIER FOOTINGS "DIAMETER 'Ø' (FT)"	PIER FOOTINGS "DEPTH 'D' (FT)"	PIER FOOTINGS "LONG. REINF. (QTY - SIZE)"	WIND Kz	WIND Cf	WIND "DESIGN WIND PRESSURE (LBS/SQFT)"	SEISMIC "BASE SHEAR (LBS)"
	8.00	16.00	2386.00	10.00	W8X24	3	8.25	(7) #8	0.88	1.73	28.19	1680
	12.00	16.00	3154.00	10.00	W10X33	3	10	(7) #8	0.92	1.71	29.11	2380
	16.00	16.00	3922.00	10.00	W10X45	3	11.5	(7) #8	0.95	1.69	29.83	3080
	20.00	16.00	4690.00	10.00	W12X58	3	13.5	(7) #8	0.98	1.68	30.58	4060
	8.00	20.00	2770.00	12.00	W12X26	3	9	(7) #8	0.88	1.73	28.19	1960
✓	12.00	20.00	3730.00	12.00	W10X39	3	10.75	(7) #8	0.92	1.69	28.83	2800
	16.00	20.00	4690.00	12.00	W10X49	3	12.75	(7) #8	0.95	1.68	29.01	3500
	20.00	20.00	5650.00	12.00	W12X65	3	15.5	(7) #8	0.98	1.67	30.28	4620
	24.00	20.00	6610.00	12.00	W12X79	3	18.25	(7) #8	1.01	1.66	31.03	5740
	12.00	25.50	4522.00	15.00	W16X45	3	11.75	(7) #8	0.92	1.68	28.55	3080
	16.00	25.50	5746.00	15.00	W12X53	3	14.75	(7) #8	0.95	1.66	29.31	4200
	20.00	25.50	7670.00	15.00	W14X74	3	17.75	(7) #8	0.98	1.65	30.03	5600
	24.00	25.50	8894.00	15.00	W14X90	3	21	(7) #8	1.01	1.64	30.66	7000
	28.00	25.50	10118.00	15.00	W14X109*	4	20.25	(12) #8	1.03	1.64	31.33	8540
	32.00	25.50	11342.00	15.00	W18X143*	4	22.75	(12) #8	1.05	1.64	31.97	10780
	36.00	25.50	12566.00	15.00	W27X161*	4	25.5	(12) #8	1.07	1.64	32.56	12740

TABLE B - SPECIAL WIND REGIONS (130 MPH)

CHECK OPTION	OVERALL DIMENSIONS "MAX. HEIGHT 'H' (FT)"	OVERALL DIMENSIONS "MAX. WIDTH 'W' (FT)"	OVERALL DIMENSIONS MAX. DISPLAY WEIGHT (LBS)	COLUMNS "SPACING 'S' (FT)"	COLUMNS SIZE	PIER FOOTINGS "DIAMETER 'Ø' (FT)"	PIER FOOTINGS "DEPTH 'D' (FT)"	PIER FOOTINGS "LONG. REINF. (QTY - SIZE)"	WIND Kz	WIND Cf	WIND "DESIGN WIND PRESSURE (LBS/SQFT)"	SEISMIC "BASE SHEAR (LBS)"
	8.00	16.00	2386.00	10.00	W12X30	3	10	(7) #8	0.88	1.73	47.64	1820
	12.00	16.00	3154.00	10.00	W12X40	3	12.25	(7) #8	0.92	1.71	49.20	2520
	16.00	16.00	3922.00	10.00	W12X53	3	15.25	(7) #8	0.95	1.69	50.41	3360
	20.00	16.00	4690.00	10.00	W12X72	3	18.75	(7) #8	0.98	1.68	51.68	4480
	8.00	20.00	2770.00	12.00	W10X33	3	11	(7) #8	0.88	1.73	47.64	2100
	12.00	20.00	3730.00	12.00	W14X48	3	13.75	(7) #8	0.92	1.69	48.72	2940
	16.00	20.00	4690.00	12.00	W14X61	3	17.5	(7) #8	0.95	1.68	50.04	3920
	20.00	20.00	5650.00	12.00	W14X82*	3	21.25	(7) #8	0.98	1.67	51.17	5180
	24.00	20.00	6610.00	12.00	W14X99	4	21	(12) #8	1.01	1.66	52.44	6440
	12.00	25.50	4522.00	15.00	W14X53	3	16	(7) #8	0.92	1.68	48.25	3360
	16.00	25.50	5746.00	15.00	W16X67	3	20.25	(7) #8	0.95	1.66	49.53	4480
	20.00	25.50	7670.00	15.00	W14X90	4	20.5	(12) #8	0.98	1.65	50.75	6020
	24.00	25.50	8894.00	15.00	W24X117*	4	24.25	(12) #8	1.01	1.64	51.82	7840
	28.00	25.50	10118.00	15.00	W14X145*	4	28	(12) #8	1.03	1.64	52.95	9800
	32.00	25.50	11342.00	15.00	W30X173*	5	27.50	(19) #8	1.05	1.64	54.03	12040
	36.00	25.50	12566.00	15.00	W33X201*	5	30.75	(19) #8	1.07	1.64	55.02	14560

(1) PER ASCE7 CASE B LOADING, CASE B LOADING = (CASE A LOADING) X (1.67). THE PRESSURES HAVE BEEN MULTIPLIED BY 0.6 (ASD LOAD FACTOR).
(2) 0.7V PER ASCE7-16 ASD EQUATIONS.
(3) COLUMN MAY BE SPLICED WITH A PREQUALIFIED CJP WELD.
(*) MAY NEED LONGER BOLTS FOR CLAMP ATTACHMENTS.

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PROJECT:	2022 CBC DSA PRE-CHECK DRAWINGS		
TITLE:	SHEET 9; 2-COLUMN STRUCTURE W/ PIER FOUNDATIONS		
DATE:	9 MAR 23	DRAWING: INCHES [MILLIMETERS]	SHEET: SB0.9 / REV: A
SCALE:	1/8" = 1'-0"	DO NOT SCALE DRAWING	
DESIGN:	KIGURTEN	JOB NO: P2236	FUNC - TYPE - SIZE: F - 10 - D
DRAWN:	SEASTMA		5224624

THIRD ANGLE PROJECTION

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-123309 INC: 1
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 9/30/2025

AGD ARCHITECTURE | DESIGN
ANDREW GOODWIN DESIGNS
1238 MONTEREY STREET
SAN LUIS OBISPO, CA 93422
t: (805) 439-1611
www.andrewgoodwin.us

PRE-CHECK (PC) DOCUMENT

CODE: 2022 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

VECTOR ENGINEERS
WELLS L. HOLMES, S.E.
651 W. GALENA PARK BLVD. STE. 101
DRAPER, UTAH 84020
(801) 990-1775
(801) 990-1776 FAX

REGISTERED PROFESSIONAL ENGINEER WELLS HOLMES S 8203 STRUCTURAL STATE OF CALIFORNIA

08/07/2023

STRUCTURAL ENGINEER OF RECORD

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APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122194 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 09/18/2023

PROJECT-SPECIFIC APPROVALS

PRE-CHECK (PC) DOCUMENT
Code: 2022 CBC
A separate project application for construction is required.

REVISIONS

REV #	REV DATE	REV DESCRIPTION

SEAL

LICENSED ARCHITECT ANTONIO PAVONE C-39089 REN. 9/30/2025 STATE OF CALIFORNIA

PROJECT

TRANQUILLITY HIGH SCHOOL
INCREMENT 1 AQUATIC CENTER MODERNIZATION
6052 Juanche Ave,
Tranquillity, CA 93668

CLIENT

GOLDEN PLAINS UNIFIED SCHOOL DISTRICT

SHEET TITLE

TWO-COLUMN STRUCTURE DETAILS WITH PIER FOUNDATIONS

PHASE DESCRIPTION
100% CD - DSA APPROVAL
INCREMENT 1

DATE: 9/24/2025

TECHNICIAN: RT / JL

PROJECT MANAGER: TP

JOB NUMBER: 791

SHEET NUMBER
SB0.9-1

PLOT DATE: 9/19/2025 5:26:48 PM