

# SOUTH WHIDBEY AQUATIC RECREATION CENTER

## 100% DESIGN DEVELOPMENT SET



**S WHIDBEY PARKS & REC  
 AQUATIC REC CENTER**

PID 812720 MAXWELTON RD  
 LANGLEY, WA 98260



**100% DESIGN  
 DEVELOPMENT**

ISSUE DATE: DECEMBER 01, 2023

REVISION SCHEDULE		
Rev #	Date	Description

CONTENTS:  
**COVER SHEET**

SCALE:  
 DRAWN: AW/JP  
 CHECKED: PRC/EGW  
 PROJECT NO: 2022021.000

SHEET:  
**T0.0**

**CONCEPTUAL RENDERING**



# SOUTH WHIDBEY AQUATIC RECREATION CENTER

100% DESIGN DOCUMENT SET - DECEMBER 01, 2023

## VICINITY MAP



## PROJECT TEAM

<b>OWNER:</b> SOUTH WHIDBEY PARKS AND RECREATION 5475 MAXWELTON ROAD LANGLEY WA, 98260 PHONE: 360-221-5484 CONTACT: GARRIE MONFORTE, ACTING DIRECTOR EMAIL: SWPARKS@SWPARKS.ORG	<b>ARCHITECT:</b> ARC ARCHITECTS, INC. 119 S MAIN ST, SUITE 200 SEATTLE, WA 98104 PHONE: 206-322-3322 CONTACT: PAUL CURTIS, PRINCIPAL EMAIL: CURTIS@ARCARCHITECTS.COM CONTACT: EMILY WHEELER, PRINCIPAL WHEELER@ARCARCHITECTS.COM	<b>STRUCTURAL ENGINEER:</b> PCS STRUCTURAL SOLUTIONS 2124 3RD AVE #100 SEATTLE, WA 98121 PHONE: 206-292-5076 CONTACT: ALEX LEGGE, PRINCIPAL ALEGE@PCS-STRUCTURAL.COM CONTACT: CHRIS JESERITZ CJESERTZ@PCS-STRUCTURAL.COM
<b>LANDSCAPE ARCHITECT:</b> BRUCE DEES & ASSOCIATES, LLC 222 EAST 26TH STREET, SUITE 202 TACOMA WA, 98421 PHONE: 253-627-7947 CONTACT: MICHAEL FAULKNER, PROJECT MANAGER MFAULKNER@BDASSOCIATES.COM CONTACT: SHAWN A. JENSEN, PRINCIPAL SJENSEN@BDASSOCIATES.COM	<b>MECHANICAL FIRE PLUMBING ENGINEER:</b> INTERFACE ENGINEERING 100 SW MAIN STREET, SUITE 1600 PORTLAND, OR 97204 PHONE: 206-382-0200 CONTACT: TROY LOWELL, ASSOCIATE PRINCIPAL TROYL@INTERFACEENG.COM CONTACT: ANDREW LASSE, PRINCIPAL ANDREW.L@INTERFACEENG.COM CONTACT: CHRIS SCOTT, ASSOCIATE PRINCIPAL CHRIS@INTERFACEENG.COM	<b>ELECTRICAL ENGINEER:</b> TRAVIS FITZMAURICE 1200 WESTLAKE AVE. N, SUITE 509 SEATTLE, WA 98109 PHONE: 206-285-7229 CONTACT: APRILLE BALANQUE, PRINCIPAL APRILLE@TF-WB.COM CONTACT: ANDREW SHARMIN, PROJECT MANAGER ANDREW@TF-WB.COM
<b>GEOTECHNICAL ENGINEER:</b> PALMER GEOTECHNICAL CONSULTANTS, INC PO BOX 1064 COUPEVILLE, WA 98239 PHONE: 360-929-5676 CONTACT: SCOTT PALMER, PRINCIPAL SPALMER@PALMERGEO.COM	<b>CIVIL ENGINEER:</b> MIG 615 2ND AVE #280 SEATTLE, WA 98104 PHONE: 206-223-0326 CONTACT: DAVE ROGERS, PRINCIPAL ENGINEER DROGERS@MIG.COM BARBARA VAN DE FEN, SR, CIVIL ENGINEER BVANDEFEN@MIG.COM	<b>ENVELOPE CONSULTANT:</b> RDH BUILDING SCIENCE INC. 34TH STREET #150 SEATTLE, WA 98103 PHONE: 206-324-2272 CONTACT: ANDREW DILLENBECK, PROJECT MANAGER EMAIL: ADILLENBECK@RDH.COM CONTACT: TODD WAFFNER, PROJECT MANAGER EMAIL: TWAFFNER@RDH.COM
<b>SURVEY:</b> HARMSEN LLC 2622 COLBY AVENUE, SUITE 300 EVERETT, WA 98201 PHONE: 425-252-1884 CONTACT: AARON TYSON, DIRECTOR OF SURVEYING AARONT@HARMSENLLC.COM	<b>LOCAL CIVIL ENGINEER:</b> DAVIDO CONSULTING GROUP 1796 E MAIN STREET, SUITE 105 FREELAND, WA 98049 PHONE: 360-331-4131 CONTACT: QUIN CLEMENTS, VICE-PRESIDENT QUIN@DCGCONSTR.COM	<b>AQUATICS CONSULTANT:</b> AQUATIC DESIGN GROUP 2228 FARADAY AVENUE CARLSBAD, CA 92008 706-438-8400 CONTACT: JUSTIN CARON, PRINCIPAL JCARON@AQUATICDESIGNGROUP.COM CONTACT: ALEJANDRO PINNICK, PROJECT MANAGER APINNICK@AQUATICDESIGNGROUP.COM
<b>COST ESTIMATOR:</b> DCW COST MANAGEMENT 815 1ST AVENUE, #39671 SEATTLE, WA 98104 PHONE: 206-259-2980 CONTACT: TRISH DREWY, MANAGING DIRECTOR TRISH@DCWCOST.COM	<b>TRAFFIC CONSULTANT:</b> TRANSPORTATION ENGINEERING NORTHWEST 11400 SE 8TH ST #200, BELLEVUE, WA 98004 206-361-7333 CONTACT: MICHAEL READ, PRINCIPAL MIKEREAD@TENW.COM	<b>TOPOGRAPHIC SURVEY</b> GEOTECHNICAL REPORT TRAFFIC REPORT WATER SUPPLY ANALYSIS** PERFORMED BY: HARMSEN LLC PALMER GEOTECHNICAL CONSULTANTS INC. TRANSPORTATION ENGINEERING NORTHWEST DCG-WATERSHED PERFORMED BY:

## PROJECT DESCRIPTION

AN APPROXIMATELY 24,000 SF SINGLE-STORY AQUATIC CENTER LOCATED ADJACENT TO EXISTING WETLANDS ON A PARCEL SHARED WITH THE EXISTING SOUTH WHIDBEY COMMUNITY PARK. THE PROJECT INCLUDES 75+ SURFACE PARKING SPACES, AN ENTRY PLAZA, OUTDOOR PATIOS, STORMWATER DETENTION & ASSOCIATED UTILITIES.

## LEGAL DESCRIPTION

THE PROPERTY HEREIN DESCRIBED IS THE SAME PROPERTY DESCRIBED IN CHICAGO TITLE COMPANY OF WASHINGTON COMMITMENT FOR TITLE INSURANCE NUMBER 245456727 DATED APRIL 18, 2023 LOT 1 OF ISLAND COUNTY SHORT PLAT NO. 24765 R32910.2510 AS APPROVED DECEMBER 6, 1996 AND RECORDED DECEMBER 6, 1996. IN VOLUME 3 OF SHORT PLATS, PAGE 127 UNDER AUDITOR'S FILE NO. 96020855, RECORDS OF ISLAND COUNTY, WASHINGTON AND THE NORTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 10, TOWNSHIP 29 NORTH, RANGE 3 EAST OF THE WILLAMETTE MERIDIAN AND THE SOUTHEAST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 10, TOWNSHIP 29 NORTH, RANGE 3 EAST OF THE WILLAMETTE MERIDIAN EXCEPT THE EAST 30 FEET THEREOF FOR COUNTY ROAD KNOWN AS LANGLEY ROAD ALSO EXCEPT THE NORTH 10 ACRES THEREOF AND THE SOUTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 10, TOWNSHIP 29 NORTH, RANGE 3 EAST OF THE WILLAMETTE MERIDIAN TOGETHER WITH AN EASEMENT FOR INGRESS, EGRESS AND UTILITIES, OVER, UNDER AND ACROSS THE SOUTH 60 FEET OF THAT PORTION OF THE NORTHEAST QUARTER OF THE SOUTHWEST QUARTER LYING EAST OF THE COUNTY ROAD KNOWN AS MAXWELTON ROAD AND ALSO THE SOUTH 60 FEET OF THE WEST 60 FEET OF THE NORTHWEST QUARTER OF THE SOUTHWEST QUARTER ALL IN SECTION 10, TOWNSHIP 29 NORTH, RANGE 3 EAST OF THE WILLAMETTE MERIDIAN AND THE NORTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 15, TOWNSHIP 29 NORTH, RANGE 3 EAST OF THE WILLAMETTE MERIDIAN EXCEPT FOR THE WEST 320 FEET AS MEASURED PERPENDICULAR TO AND PARALLEL WITH THE WEST LINE OF THE NORTHWEST QUARTER OF SECTION 15, TOWNSHIP 29 NORTH, RANGE 3 EAST OF THE WILLAMETTE MERIDIAN TOGETHER WITH A NON-EXCLUSIVE EASEMENT FOR INGRESS, EGRESS AND UTILITIES, OVER AND UNDER AND ACROSS THE NORTH 60 FEET OF THE ABOVE DESCRIBED WEST 320 FEET OF THE NORTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 15 ALSO TOGETHER WITH AN EASEMENT FOR INGRESS AND EGRESS, OVER THE SOUTH 40 FEET OF THE NORTH 60 FEET OF THAT PORTION OF THE NORTHEAST QUARTER OF THE NORTHEAST QUARTER OF SECTION 15, TOWNSHIP 29 NORTH, RANGE 3 EAST OF THE WILLAMETTE MERIDIAN, LYING EASTERLY OF THE COUNTY ROAD ALL SITUATE IN ISLAND COUNTY, WASHINGTON.

## ADDITIONAL DOCUMENTS

TOPOGRAPHIC SURVEY	PERFORMED BY:	HARMSEN LLC
GEOTECHNICAL REPORT	PERFORMED BY:	PALMER GEOTECHNICAL CONSULTANTS INC.
TRAFFIC REPORT	PERFORMED BY:	TRANSPORTATION ENGINEERING NORTHWEST
WATER SUPPLY ANALYSIS**	PERFORMED BY:	DCG-WATERSHED

\*\*PERMITTING HANDLED SEPARATELY

## DRAWING LIST

<b>GENERAL</b>	<b>STRUCTURAL</b>
T0.0 COVER SHEET	S0.0 COVER SHEET
T1.0 PROJECT INFO	S1.0 GENERAL NOTES
T1.1 CODE & PERMIT NOTES	S1.1 GENERAL NOTES
T1.2 CODE & PERMIT NOTES	S1.2 GENERAL NOTES
T1.3 FIRE SAFETY PLAN	S1.5 WIND PRESSURE ROOF ZONES
	S2.0 FOUNDATION PLAN
	S2.1 LEVEL 1 FRAMING PLAN
	S2.3 LOW ROOF FRAMING PLAN
	S2.4 HIGH ROOF FRAMING PLAN
	S3.0 TYPICAL CONCRETE SLAB ON GRADE DETAILS
	S3.2 TYPICAL FOUNDATION DETAILS
	S4.0 TYPICAL TIMBER DETAILS
	S5.0 TYPICAL STEEL FRAMING DETAILS
	S5.1 TYPICAL STEEL FRAMING DETAILS
	S5.3 STEEL FRAMING DETAILS
	S5.5 BRACED FRAMING ELEVATIONS
	S5.6 STEEL BRACED FRAME DETAILS
	S7.0 TYP COLD-FORMED STEEL FRAMING DETAILS
	S7.1 TYP COLD-FORMED STEEL FRAMING DETAILS
	S7.2 TYP COLD-FORMED STEEL FRAMING DETAILS
	<b>MECHANICAL</b>
	M0.1 SYMBOL LIST AND GENERAL NOTES
	M0.2 SCHEDULES
	M0.3 SCHEDULES
	M0.4 SCHEDULES
	M2.1 FIRST FLOOR PLAN - MECHANICAL
	M3.1 ENLARGED PLANS - MECHANICAL
	M4.1 DETAILS - MECHANICAL
	<b>PLUMBING</b>
	P0.1 SYMBOL LIST AND GENERAL NOTES
	P0.2 SCHEDULES
	P0.3 SCHEDULES
	P2.0 UNDERFLOOR PLAN - PLUMBING
	P2.1 1ST FLOOR PLAN - PLUMBING
	P2.3 ROOF PLAN - PLUMBING
	P3.1 ENLARGED PLANS - PLUMBING
	<b>ELECTRICAL</b>
	E1.0 LEGEND
	E2.1 SITE PLAN - ELECTRICAL
	E2.1 1ST FLOOR PLAN - LIGHTING
	E3.1 1ST FLOOR PLAN - POWER
	E3.2 ROOF PLAN - POWER
	E6.0 ONE LINE DIAGRAM
	E8.1 ELECTRICAL DETAILS
	E7.0 LIGHTING FIXTURE SCHEDULE
	<b>AQUATICS</b>
	SP.0 AQUATIC AREA PLAN
	SP.1 SWIMMING POOL LAYOUT
	SP.2 SWIMMING POOL SECTIONS
	AP.1 ACTIVITY POOL PLAN
	AP.2 ACTIVITY POOL SECTIONS
	AP.3 DETAILS
	AP.4 DETAILS
	AP.5 DETAILS
	AP.6 DETAILS
	AP.7 DETAILS
	AP.8 DETAILS
	AP.9 DETAILS
	HS.1 HYDROTHERAPY SPA PLAN AND SECTION
	MR.1 MECHANICAL ROOM PLAN
	MR.2 DETAILS
	MR.3 DETAILS
	MR.4 DETAILS
	MR.5 DETAILS
	MR.6 DETAILS
	MR.7 DETAILS
	MR.8 DETAILS

## GENERAL NOTES

- DRAWINGS AND SPECIFICATIONS ARE COMPLIMENTARY AND WHAT IS CONTAINED IN ONE SHALL BE CONSIDERED TO BE INCLUDED IN BOTH.
- THE CONTRACT DOCUMENTS ARE COMPRISED OF THE DRAWINGS, PROJECT MANUAL AND ADDENDA (IF ANY). THE CONTRACT DOCUMENTS ARE CONSIDERED INCOMPLETE UNLESS ALL ELEMENTS LISTED ARE PRESENT.
- IN THE CASE OF A CONFLICT BETWEEN ANY ASPECT OF THE CONTRACT DOCUMENTS AND ANOTHER, CONTACT THE ARCHITECT IMMEDIATELY FOR DIRECTION.
- ALL WORK SHALL COMPLY WITH APPLICABLE CODES AND ORDINANCES. IF A CONFLICT ARISES BETWEEN WHAT IS SHOWN IN THE CONTRACT DOCUMENTS AND AN APPLICABLE CODE, PROMPTLY NOTIFY ARCHITECT FOR DETERMINATION OF HOW TO PROCEED
- DO NOT SCALE DRAWINGS
- PERFORM EXCAVATION & FOUNDATION WORK IN CONFORMANCE WITH THE SOILS REPORT AND CONSTRUCTION DOCUMENTS
- DRAWINGS INDICATE GENERAL & TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER, TYPICAL DETAILS SHALL APPLY.

## GENERAL LEGEND

<b>ROOM NAME</b> 101	ROOM NAME ROOM NUMBER	<b>ELEVATION</b> A3.1	DRAWING # SHEET #
<b>WALL / PARTITION</b> TYPE - SEE A7.1		<b>BUILDING OR WALL SECTION</b> A1.1	DRAWING # SHEET #
<b>DOOR NUMBER</b> SEE A7.2		<b>DETAILS</b> A1.1	DETAIL # SHEET #
<b>WINDOW TAG</b> SEE A7.2		<b>ELEVATION - HEIGHT OF MATERIAL</b>	

## ABBREVIATIONS

<b>ANGLE</b>	<b>FOUNDATION</b>	<b>PAIR</b>	<b>PAIR POINT</b>
<b>LINE</b>	<b>FACE OF CONCRETE</b>	<b>PNT.</b>	<b>REFERENCE</b>
<b>NUMBER</b>	<b>FACE OF FOUNDATION</b>	<b>P.T.</b>	<b>REFRIGERATOR</b>
<b>PROPERTY LINE</b>	<b>FURNISHED BY OWNER /</b>	<b>PTD.</b>	<b>REINFORCED</b>
	<b>INSTALLED BY CONTRACTOR</b>	<b>PTN</b>	<b>REVISION, REVISED</b>
<b>ANCHOR BOLT</b>	<b>F.O.I.O</b>	<b>P.V.C.</b>	<b>ROUGH OPENING</b>
<b>AIR CONDITIONING</b>	<b>F.O.M</b>		<b>RAIN WATER LEADER</b>
<b>ADJACENT TILE CEILING</b>	<b>F.O.S</b>		
<b>ADJACENT ABOVE FINISH FLOOR</b>	<b>F.P.</b>		
<b>ALTERATE ARCHITECTURAL</b>			
<b>AVERAGE</b>	<b>G.A.</b>		
<b>ARCHITECTURAL WALL PANEL</b>	<b>GALV.</b>		
	<b>GENERAL CONTRACTOR</b>		
	<b>GLULAM</b>		
	<b>GND.</b>		
	<b>GRADE</b>		
	<b>G.W.B.</b>		
	<b>GYPSPUM WALLBOARD</b>		
	<b>H.B.</b>		
	<b>HOSE BIB</b>		
	<b>H.C.</b>		
	<b>HOLLOW CORE</b>		
	<b>HDBD.</b>		
	<b>HARDBOARD</b>		
	<b>HDR.</b>		
	<b>HEADER</b>		
	<b>HDWR.</b>		
	<b>HARDWARE</b>		
	<b>HDWD.</b>		
	<b>HARDWOOD</b>		
	<b>H.M.</b>		
	<b>HOLLOW METAL</b>		
	<b>H.V.A.C</b>		
	<b>HEATING / VENTILATION /</b>		
	<b>AIR CONDITIONING</b>		
	<b>I.D.</b>		
	<b>INSIDE DIAMETER (DIM.)</b>		
	<b>INSUL.</b>		
	<b>INSULATED / INSULATION</b>		
	<b>INT.</b>		
	<b>INTERIOR</b>		
	<b>JT.</b>		
	<b>JOINT</b>		
	<b>KIT.</b>		
	<b>KITCHEN</b>		
	<b>LAF.</b>		
	<b>LIQUID-APPLIED MEMBRANE FLASHING</b>		
	<b>L.F.</b>		
	<b>LINEAL FEET</b>		
	<b>L.T.WT.</b>		
	<b>LIGHT WEIGHT</b>		
	<b>MAS.</b>		
	<b>MASONRY</b>		
	<b>MACHINE BOLT</b>		
	<b>M.B.</b>		
	<b>MARKER BOARD</b>		
	<b>M.D.F.</b>		
	<b>MEDIUM DENSITY FIBERBOARD</b>		
	<b>M.D.O.</b>		
	<b>MEDIUM DENSITY OVERLAY</b>		
	<b>M.D.X.</b>		
	<b>MEDIUM DENSITY EXTERIOR OVERLAY</b>		
	<b>MECH.</b>		
	<b>MECHANICAL</b>		
	<b>MEMB.</b>		
	<b>MEMBRANE</b>		
	<b>MANUFACTURING</b>		
	<b>MANUFACTURER</b>		
	<b>MFR.</b>		
	<b>MINIMUM</b>		
	<b>MIR.</b>		
	<b>MIRROR</b>		
	<b>M.O.</b>		
	<b>MASONRY OPENING</b>		
	<b>MTL.</b>		
	<b>METAL</b>		
	<b>N.</b>		
	<b>NORTH</b>		
	<b>NOT IN CONTRACT</b>		
	<b>N.I.C.</b>		
	<b>NOMINAL</b>		
	<b>N.T.S.</b>		
	<b>NOT TO SCALE</b>		
	<b>O.C.</b>		
	<b>ON CENTER</b>		
	<b>O.P.H.</b>		
	<b>OPPOSITE HAND</b>		
	<b>OPNG.</b>		
	<b>OPENING</b>		
	<b>OPP.</b>		
	<b>OPPOSITE</b>		
	<b>PERF.</b>		
	<b>PERFORATED</b>		
	<b>PROPERTY LINE</b>		
	<b>P.L.</b>		
	<b>PLAM.</b>		
	<b>PLASTIC LAMINATE</b>		

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CONTENTS:  
**PROJECT INFO**

SCALE: 1/4" = 1'-0"  
DRAWN: LPJ/AW  
CHECKED: PC/EW  
PROJECT NO: 2022021.000

SHEET:  
**T1.0**



## ZONING CODE NOTES

### ZONING CODE NOTES

**PK (PARKS) - RURAL LANDS DESIGNATION (R)**  
(ISLAND COUNTY MUNICIPAL CODE: CH. 17.03.072)

LMC 21.62.200 PERMITTED USES: OFFICES, SENIOR CENTER OR COMMUNITY CENTER, DAYCARE FOR CHILDREN AND ADULTS, AND HEALTH OR FITNESS CLUB

- CH 17.03.180 - LAND USE STANDARDS (NON-RESIDENTIAL DEVELOPMENT ON SITE GREATER THAN 2 ACRES)
- MAX HEIGHT: 35' - **PROJECT MAX. HEIGHT IS 35'-0"**
  - MAXIMUM SITE COVERAGE: 10% - **PROJECT LOT COVERAGE IS 0.5%**
  - SETBACKS: CONSISTENT W/ SINGLE FAMILY REQ. (RR) - LOCAL ACCESS - 30'

### CH. 17.03.180S - LAND USE STANDARDS

Q.1.m. PARKING: (DUE TO AQUATICS NOT BEING AN IDENTIFIED USE IN THE MUNICIPAL CODE, IT WAS DISCUSSED WITH THE ISLAND COUNTY PLANNING DEPARTMENT THAT A PARKING METRIC OF 1.5 STALLS/350 SF) WOULD BE APPROPRIATE BASED ON SIMILAR FACILITIES IN THE AREA. 67 SPACES WOULD BE REQUIRED, AND WE ARE PROPOSING 77 SPACES.

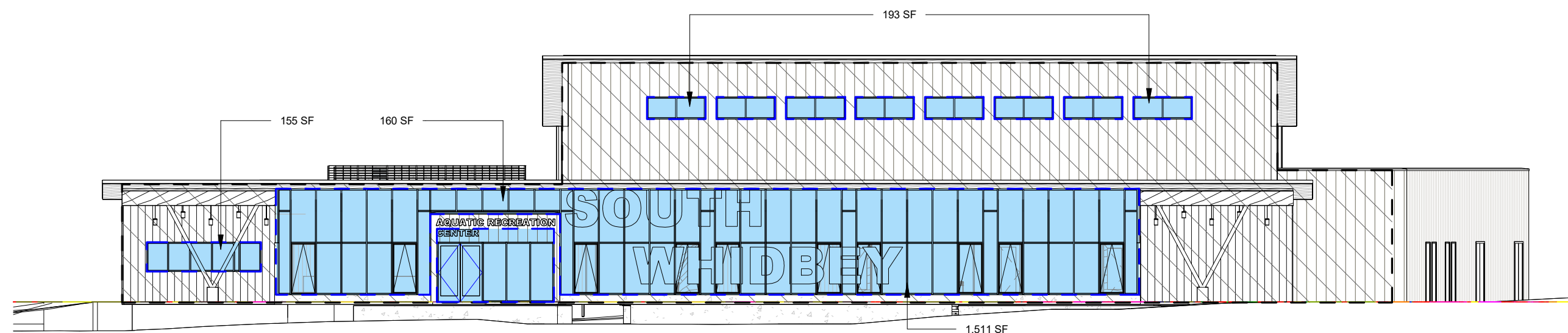
EACH PARKING SPACE FOR A STANDARD SIZE CAR SHALL HAVE A MINIMUM AREA OF 162 SQUARE FEET, AND A MINIMUM WIDTH OF NINE (9) FEET. EACH SPACE FOR A COMPACT CAR SHALL HAVE A MINIMUM AREA OF 128 SQUARE FEET AND A MINIMUM WIDTH OF EIGHT (8) FEET. SPACES FOR THE COMPACT CARS SHALL NOT EXCEED THIRTY (30) PERCENT OF THE TOTAL SPACES, AND SHALL BE DISTRIBUTED THROUGHOUT THE PARKING FACILITY.

Q.6. LOADING AND UNLOADING: EACH COMMERCIAL OR INDUSTRIAL USE, PUBLIC OR SEMI-PUBLIC BUILDING OR USE, OR SCHOOL LARGER THAN THIRTY-FIVE (35) STUDENTS, SHALL PROVIDE SPACE, EITHER INSIDE OR OUTSIDE A BUILDING, FOR THE LOADING AND THE UNLOADING OF GOODS AND MATERIALS. SUCH SPACE SHALL HAVE A MINIMUM WIDTH OF TEN (10) FEET, A MINIMUM LENGTH OF TWENTY-FIVE (25) FEET AND, IF COVERED, A MINIMUM HEIGHT OF FIFTEEN (15) FEET. SUCH SPACE SHALL BE PROVIDED WITH ACCESS TO AN ALLEY, OR A STREET AND SHALL BE SCREENED FROM ADJOINING NON-COMMERCIAL, NON-INDUSTRIAL USES AND PUBLIC RIGHTS-OF-WAY.

R. h. SIGNAGE - MAX. SIZE & HEIGHT - (PK) DESIGNATION

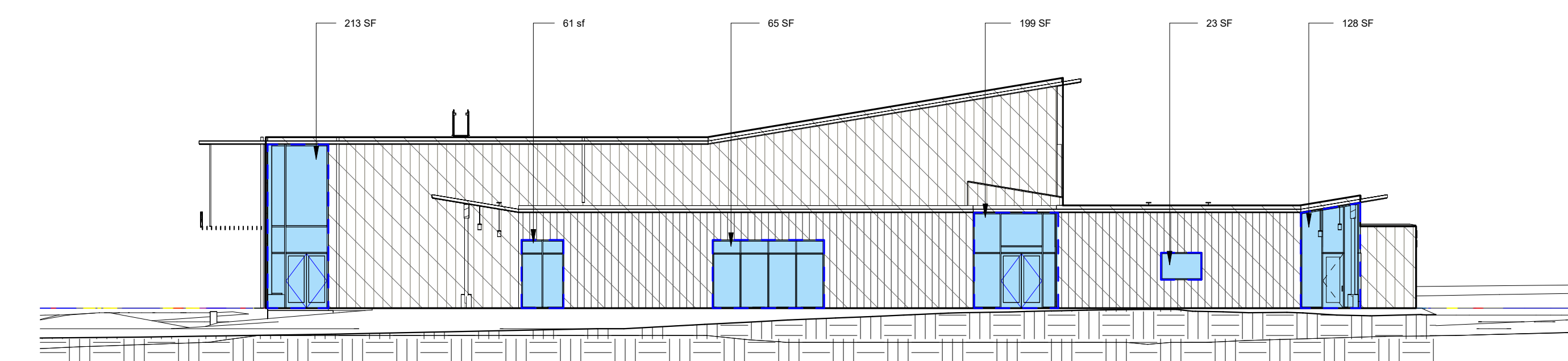
COMMERCIAL/OFFICE	-
COMMUNITY IDENTIFICATION SIGNS -	12 SF AREA
PUBLIC USE SIGNS -	48 SF AREA
FREE STANDING SIGNS -	8' HEIGHT

TOTAL WALL AREA: 4,459 sf  
TOTAL GLAZING: 2,019 sf



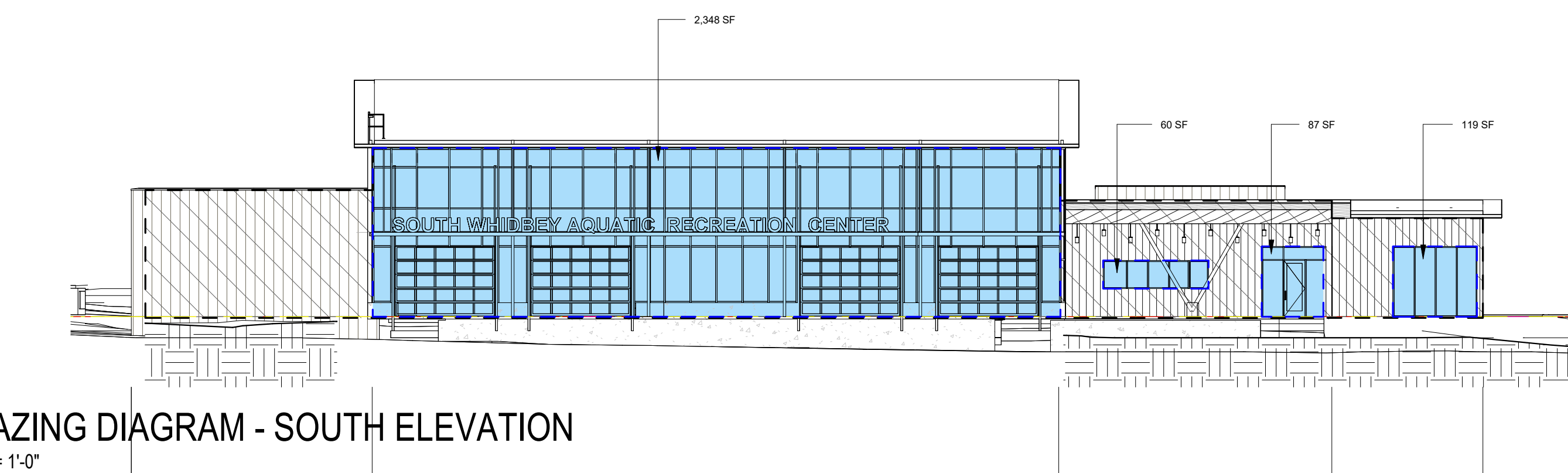
3 GLAZING DIAGRAM - NORTH ELEVATION  
1/16" = 1'-0"

TOTAL WALL AREA: 3,921 SF  
TOTAL GLAZING: 689 SF



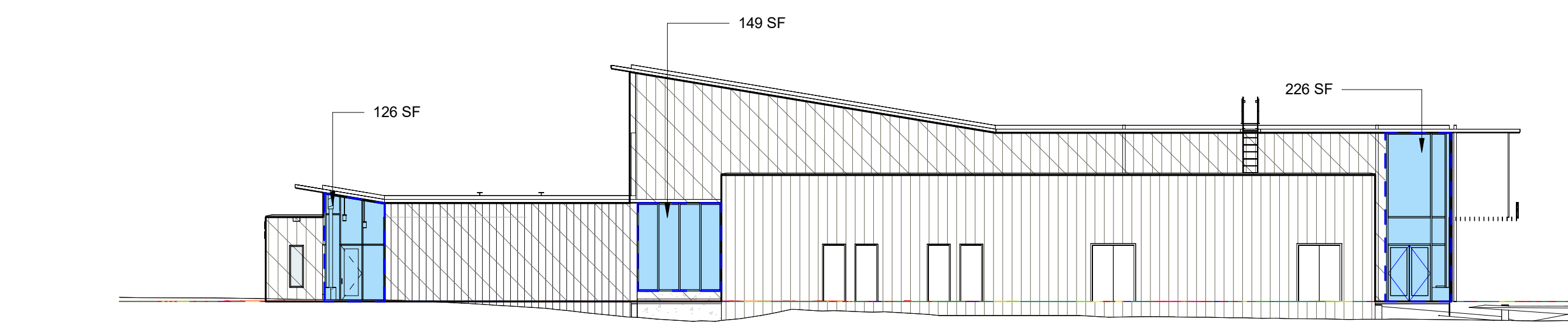
4 GLAZING DIAGRAM - EAST ELEVATION  
1/16" = 1'-0"

TOTAL WALL AREA: 3901 SF  
GLAZING AREA: 3918 SF



5 GLAZING DIAGRAM - SOUTH ELEVATION  
1/16" = 1'-0"

TOTAL WALL AREA: 2,071 SF  
TOTAL GLAZING: 501 SF



6 GLAZING DIAGRAM - WEST ELEVATION  
1/16" = 1'-0"

TOTAL WALL AREA: 1,703 SF



7 GLAZ. - PARTIAL WEST ELEV.  
1/16" = 1'-0"

## GOVERNING CODES

ISLAND COUNTY MUNICIPAL CODE

- 2021 INTERNATIONAL BUILDING CODE - WASHINGTON STATE AMENDMENTS
- ICC/ANSI 1171-2009 ACCESSIBILITY CODE WITH WASHINGTON STATE AMENDMENTS
- 2021 ENERGY CODE - WASHINGTON STATE AMENDMENTS
- 2021 INTERNATIONAL MECHANICAL CODE
- 2021 UNIFORM PLUMBING CODE
- 2019 NATIONAL ELECTRICAL CODE
- 2021 INTERNATIONAL FIRE CODE WITH WASHINGTON STATE AMENDMENTS

## PERMIT NOTES

- DEFERRED PERMIT SUBMITTALS INCLUDE BUT ARE NOT LIMITED TO: STORMWATER POLLUTION PREVENTION PLAN (SWPPP), FIRE ALARM, AUTOMATIC FIRE SPRINKLER
- SEE STRUCTURAL FOR SPECIAL INSPECTION REQUIREMENTS AND ADDITIONAL DEFERRED PERMIT SUBMITTALS
- GEOTECHNICAL INSPECTIONS SCHEDULE INCLUDES PRECONSTRUCTION MEETING, SUB/SURFACE DRAINAGE INSTALLATION, EROSION CONTROL - PERMANENT AND TEMPORARY, OBSERVATION AND MONITORING EXCAVATION, VERIFYING FILL AND COMPACTION, SOIL BEARING VERIFICATION.
- CONTRACTOR MATERIALS AND ACTIVITIES SHALL NOT BLOCK ANY EXIT WHILE THE BUILDING IS OCCUPIED.
- THE KITCHEN RANGEHOOD REQUIRES ACCEPTANCE TESTING BY LOCAL FIRE DEPARTMENT. THE MANUFACTURER'S INSTALLATION MANUAL FOR THE RANGEHOOD FIRE EXTINGUISHING SYSTEM SHALL BE AVAILABLE FOR USE BY THE FIRE INSPECTOR FOR THE ACCEPTANCE TEST. THE RANGEHOOD MUST BE CONNECTED TO THE FIRE ALARM SYSTEM.

## ENERGY CODE NOTES

2021 WASHINGTON STATE ENERGY CODE  
CLIMATE ZONE: ISLAND COUNTY - 4C

TABLE C402.1.3	
ROOF - INSULATION ABOVE DECK:	MIN R-38d
WALL ABOVE GRADE - STEEL FRAMED:	MIN R-13 + R-10d
WALL ABOVE GRADE - MASS:	MIN R-9.5d
WALL BELOW GRADE - MASS:	MIN R-9.5d
UNHEATED SLABS:	R-10 FOR 24" PERIMETER
OPAQUE SWINGING DOORS:	U-0.37

C402.2.4 SLABS-ON-GRADE PERIMETER INSULATION, WHERE THE SLAB-ON-GRADE IS IN CONTACT WITH THE GROUND, THE MINIMUM THERMAL RESISTANCE (R-VALUE) OF THE INSULATION AROUND THE PERIMETER OF UNHEATED OR HEATED SLAB-ON-GRADE FLOORS DESIGNED IN ACCORDANCE WITH THE R-VALUE METHOD OF SECTION C402.1.3 SHALL BE AS SPECIFIED IN TABLE C402.1.3. THE INSULATION SHALL BE PLACED ON THE OUTSIDE OF THE FOUNDATION OR ON THE INSIDE OF THE FOUNDATION WALL. THE INSULATION SHALL EXTEND DOWNWARD FROM THE TOP OF THE SLAB FOR A MINIMUM DISTANCE AS SHOWN IN THE TABLE OR TO THE TOP OF THE FOOTING, WHICHEVER IS LESS, OR DOWNWARD TO AT LEAST THE BOTTOM OF THE SLAB AND THEN HORIZONTALLY TO THE INTERIOR OR EXTERIOR FOR THE TOTAL DISTANCE SHOWN IN THE TABLE. INSULATION EXTENDING AWAY FROM THE BUILDING SHALL BE PROTECTED BY PAVEMENT OR BY A MINIMUM OF 10 INCHES (254 MM) OF SOIL. INSULATION COMPLYING WITH TABLE C402.1.3 SHALL BE PROVIDED UNDER THE ENTIRE AREA OF HEATED SLABS-ON-GRADE.

C402.4.1 MAXIMUM GLAZING IS 30% OF GROSS ABOVE GRADE WALL AREA

C402.4.1.1 VERTICAL FENESTRATION MAXIMUM AREA WITH HIGH PERFORMANCE ALTERNATES. FOR BUILDINGS THAT COMPLY WITH SECTION C402.4.1.1.1 OR C402.4.1.1.2, THE TOTAL BUILDING VERTICAL FENESTRATION AREA IS PERMITTED TO EXCEED 30 PERCENT BUT SHALL NOT EXCEED 40 PERCENT OF THE GROSS ABOVE GRADE WALL AREA FOR THE PURPOSE OF PRESCRIPTIVE COMPLIANCE WITH SECTION C402.1.4.

PROPOSED VERTICAL FENESTRATION: 36.3% - SEE CALCULATIONS BELOW

C402.4.1.2 HIGH-PERFORMANCE FENESTRATION. ALL OF THE FOLLOWING REQUIREMENTS SHALL BE MET:

- ALL VERTICAL FENESTRATION IN THE BUILDING SHALL COMPLY WITH THE FOLLOWING U-FACTORS:
  - U-VALUE FOR FIXED STOREFRONT AND CURTAINWALL FENESTRATION: 0.31 MAX
  - U-VALUE FOR OPERABLE STOREFRONT AND CURTAINWALL FENESTRATION: 0.36 MAX
  - U-VALUE FOR ENTRANCE DOORS: 0.6 MAX
  - U-VALUE FOR ALL OTHER VERTICAL FENESTRATION FIXED: 0.23 MAX
  - U-VALUE FOR ALL OTHER VERTICAL FENESTRATION OPERABLE: 0.23 MAX
- SHGC FOR ALL VERTICAL FENESTRATION SHALL BE NO MORE THAN 0.9 TIMES MAXIMUM SHGC VALUES LISTED IN TABLE C402.4

GLAZED AREA	
- NORTH ELEVATION	2,019 SQFT
- EAST ELEVATION	689 SQFT
- SOUTH ELEVATION	2,614 SQFT
- WEST ELEVATION	501 SQFT
- PARTIAL WEST	--- SQFT

ABOVE GRADE WALL AREA	
- NORTH ELEVATION	4,459 SQFT
- EAST ELEVATION	3,921 SQFT
- SOUTH ELEVATION	3,901 SQFT
- WEST ELEVATION	2,071 SQFT
- PARTIAL WEST	1,703 SQFT

TOTAL GLAZED AREA	5,823 SQFT
TOTAL ABOVE GRADE WALL AREA	16,055 SQFT

ACTUAL GLAZING 5,823 SQFT / 16,055 SQFT = 36.3% < 40% MAX = CODE COMPLIANT

TOTAL SKYLIGHT AREA	309 SQFT
TOTAL ROOF AREA	27,176 SQFT

ACTUAL SKYLIGHT AREA PERCENTAGE 0 SQFT / 28,838 SQFT = 0.1% < 3% = CODE COMPLIANT

C402.5

THE THERMAL ENVELOPE SHALL COMPLY WITH SECTIONS C402.5.1 THROUGH C402.5.8

C402.5.1 CONTINUOUS AIR BARRIER SHALL BE PROVIDED THROUGHOUT THE ENVELOPE

C402.5.3 THE COMPLETED BUILDING SHALL BE TESTED AND THE AIR LEAKAGE RATE OF THE BUILDING ENVELOPE SHALL NOT EXCEED 0.25 CFM/FT<sup>2</sup> OF THE BUILDING THERMAL ENVELOPE AREA AT A PRESSURE DIFFERENTIAL OF 0.3 INCHES WATER GAUGE.

C402.5.9

ALL PRIMARY BUILDING ENTRANCES SHALL BE PROTECTED WITH AN ENCLOSED VESTIBULE WITH ALL DOORS EQUIPPED WITH SELF-CLOSING DEVICES. DISTANCE BETWEEN THE DOORS SHALL BE NOT LESS THAN 7 FEET. SEE MECHANICAL AND ELECTRICAL FOR ADDITIONAL ENERGY CODE NOTES.

C403 MECHANICAL SYSTEMS

MECHANICAL SYSTEMS AND EQUIPMENT SERVING HEATING, COOLING, VENTILATING, AND OTHER NEEDS SHALL COMPLY WITH SECTION 403. SEE MECHANICAL.

C405 ELECTRICAL POWER AND LIGHTING SYSTEMS

LIGHTING SYSTEM CONTROLS, MAXIMUM LIGHTING POWER FOR INTERIOR AND EXTERIOR APPLICATIONS, ELECTRICAL ENERGY CONSUMPTION SHALL COMPLY WITH SECTION C404. SEE ELECTRICAL.



**100% DESIGN  
DEVELOPMENT**

ISSUE DATE: DECEMBER 01, 2023

REVISION SCHEDULE		
Rev #	Date	Description

CONTENTS:  
**CODE & PERMIT  
NOTES**

SCALE: 1/16" = 1'-0"  
DRAWN: EOW  
CHECKED: SWL  
PROJECT NO: 2022021.000

SHEET:  
**T1.1**



## BUILDING CODE NOTES

### BUILDING SUMMARY:

First Floor:  
A3 Occupancy  
TOTAL GROSS FIRST FLOOR = 23,454 SF

### BUILDING CODE SUMMARY:

**Chapter 3 – Use and Occupancy**  
303.4 Assembly Group A-3 for assembly and community center spaces (Multipurpose & Events)  
304.1 Business B for office spaces, training spaces, tutoring, gymnastics, education services above grade 12 (part of 1st floor)

### Chapter 5 – Building Heights and Area

**504.2 Mixed Occupancy.** In a building containing mixed occupancies in accordance with Section 508, no individual occupancy shall exceed the height and number of story limits specified in this section for the applicable occupancies.

**Table 504.3 Allowable Height above grade plane**  
A, B = Type IIIB = 75 feet

**Table 504.4 Allowable Stories above grade plane**  
A-3 = Type IIIB = 3 stories  
B = Type IIIB = 4 stories

**Section 506 Building Area**  
506.2.4 Mixed-occupancy, multi-story buildings.

**Table 506.2**  
A-3 SM Type IIIB = 28,500 SF - MOST RESTRICTIVE  
B SM Type IIIB = 57,000 SF

**506.2.3 Single Occupancy – multistory buildings (assumes A-3 most stringent occupancy)**  
Aa = [A1 + (NS x I)]

Aa =  $(28,500 + (9,500 \times 50))$  (using # for Type IIIB for A-3 – SM (multistory))  
Aa =  $(28,500 + 4,750)$   
Aa =  $[33,250]$  maximum gross building area with frontage increase

**506.2.4 Mixed Occupancy, Multistory buildings.**  
Each story of a mixed occupancy building with more than one story above grade plane shall individually comply with the applicable requirements of Section 508.1.

### 506.3 Frontage Increase

Based on table 506.3.3  
If = (linear ft fronting open public space)/(total building perimeter)  
% of Building Perimeter (50% < x < 75%) = .5  
Frontage Increase Factor = .5

### Section 507.5 Two-story buildings

The area of a Group B, F, M or S building no more than 2 stories above the grade plane shall not be limited where the building is equipped throughout with an automatic sprinkler system in accordance with Section 903.1.1 and is surrounded and adjoined by public ways or yards not less than 60 feet in width.  
Therefore there is no restriction on the size of Group B occupancy in this 2 story building.

### Section 508 Mixed Use and Occupancy

**508.1 General.** Each portion of a building shall be individually classified in accordance with Section 302.1 Where a building contains more than one occupancy group, the building or portion thereof shall comply with the applicable provisions of Section 508.2, 508.3 or 508.4 or a combination of these sections.

**508.3 Nonseparated occupancies.** Buildings or portions of buildings that comply with the provisions of this section shall be considered as nonseparated occupancies.

**508.3.2 Allowable building area and height.** The allowable building area and height of the building or portion thereof shall be based on the most restrictive allowances for the occupancy groups under consideration for the type of construction of the buildings in accordance with Section 503.1.

**508.3.3 Separation.** No separation is required between nonseparated occupancies.

### Table 508.4 Required separation of Occupancies

Not required as building is designed to most restrictive occupancy - A occupancy.

### Chapter 6 – Types of Construction

Table 601 Type III B:  
Primary structure – 0 hr.  
Bearing walls  
Exterior – 2 hr. (Project does not have exterior bearing walls - N/A)

Interior – 0 hr.  
Non-bearing partitions  
Exterior – see Table 602 – all walls are more than 30' fire separation – 0 hr.

Interior – 0 hr.  
Roof construction and secondary members – 0 hr.  
Roof construction and secondary members – 0 hr.

602.3 Type III construction is that type of construction in which the exterior walls are of noncombustible materials and the interior building elements are of any material permitted by this code. Fire-retardant-treated wood framing and sheathing complying with Section 2303.2 shall be permitted within exterior wall assemblies of a 2-hour rating or less

### Chapter 7 – Fire and Smoke Protection Features

Elevator and machine room need 1 hr. walls

### 704.10 Exterior Structural Members

Load-bearing structural members located within the exterior walls or on the outside of a building or structure shall be provided with the highest fire-resistance rating as determined in accordance with the following:  
As required by Table 601 for the type of building element based on the type of construction of the building.  
As required by Table 601 for exterior bearing walls based on the type of construction.  
As required by Table 705.5 for exterior walls based on the fire separation distance.

### Chapter 10 – Means of Egress

Section 1004 – Occupant Load – see charts  
Section 1004.3 - All A Occupancy rooms shall have a maximum occupancy load sign posted. See Signage Sheet.

Section 1007.1.1 - Two exits or exit access doorways. Where two exits, exit access doorways, exit access stairways or ramps, or any combination thereof, are required from any portion of the exit access, they shall be placed a distance apart equal to not less than one-half of the length of the maximum overall diagonal dimension of the building or area to be served measured in a straight line between them. Where a building is equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 or 903.3.1.2, the separation distance shall be not less than one-third of the length of the maximum overall diagonal dimension of the area served.

Section 1009 – Accessible Means of Egress

### Chapter 11 – Accessibility

Table 1106.1 Accessible Parking Spaces.  
51-75 parking spaces: 3 accessible spaces min.  
75 - 100 parking spaces: 4 accessible spaces min.

Include one loading zone space that is Accessible.

### Chapter 29 – Plumbing Systems

Table 2902.1 Minimum number of required plumbing fixtures  
See charts

ROOF DRAINAGE CALCULATIONS ARE SHOWN ON THE ROOF PLAN SHEETS

## PLUMBING COUNT SUMMARY

PER IBC, THERE IS DOUBLE COUNTING OF OCCUPANCY IN THE NATATORIUM SPACES -- THE OCCUPANTS OF THE NATATORIUM DECK ARE THE SAME AS OCCUPANTS OF THE POOLS THEMSELVES. AS SUCH, THE TOTAL PLUMBING COUNT FIXTURES ARE DERIVED BY INTEGRATING IBC REQUIREMENTS FOR NON-NATATORIUM SPACES AND WAC REQUIREMENTS FOR NATATORIUM SPACES PER THE FOLLOWING.

TOTAL OCCUPANCY = OCCUPANCY PER IBC FOR NON-NATATORIUM SPACES + OCCUPANCY PER WAC FOR NATATORIUM SPACES  
= 104 OCCUPANTS + 207 OCCUPANTS  
= **311 OCCUPANTS**

SUMMARY OF REQ'D TOTAL OCCUPANTS: 311		TOTAL WATER CLOSETS			TOTAL URINALS		TOTAL LAVATORIES			TOTAL BATH/TUBS OR SHOWERS	TOTAL DRINKING FOUNTAINS	TOTAL SERVICE SINKS
50% MALE	50% FEMALE	UNISEX	MALE	FEMALE	MALE	UNISEX	MALE	FEMALE				
155.5	155.5	0	3 **	3 **	2 **	0	3 **	3 **	4	1	1	
<b>PROVIDED</b>		<b>4</b>	<b>2</b>	<b>4</b>	<b>2</b>	<b>4</b>	<b>2</b>	<b>2</b>	<b>21</b>	<b>2</b>	<b>1</b>	

## PLUMBING CALCULATIONS FOR NON-NATATORIUM SPACES PER IBC \*

WSBC OCCUPANCY OF NATATORIUM (SWIMMING POOLS, DECK) = 323 + 42 + 71 + 3 + 17 + 19 + 4 + 2 = 481 NATATORIUM OCCUPANTS

OCCUPANCY OF NON-NATATORIUM SPACES  
= TOTAL OCCUPANCY - (WSBC) OCCUPANCY OF NATATORIUM  
= 585 TOTAL OCCUPANTS - 481 (WSBC NATATORIUM OCCUPANTS) = **104 OCCUPANTS (NON-NATATORIUM)**

A-3 OCCUPANTS: 104		WATER CLOSETS			URINALS		LAVATORIES		
50% MALE	50% FEMALE	UNISEX	MALE	FEMALE	MALE	UNISEX	MALE	FEMALE	
52	52	0	1	1	0	0	1	1	

SUMMARY OF REQ'D TOTAL OCCUPANTS: 104		TOTAL WATER CLOSETS			TOTAL URINALS		TOTAL LAVATORIES			TOTAL BATH/TUBS OR SHOWERS	TOTAL DRINKING FOUNTAINS	TOTAL SERVICE SINKS
50% MALE	50% FEMALE	UNISEX	MALE	FEMALE	MALE	UNISEX	MALE	FEMALE				
52	52	0	1	1	0	0	1	1	0	1	1	

\*GENERAL NOTE: FAMILY CHANGING ROOMS HAVE BEEN INCLUDED IN THE NON-NATATORIUM SPACE COUNT

## PLUMBING CALCULATIONS FOR NATATORIUM SPACES PER WAC

### WAC 246-260-041

#### TABLE 041.2 - SWIMMING POOL MAXIMUM BATHING LOAD

TYPE OF POOL	VALUE A (** SF OF SHALLOW WATER, ≤ 5')	VALUE B (** SF OF DEEP WATER > 5')	MAXIMUM BATHER LOAD = VALUE A + VALUE B
1. INDOOR	SF/25 PROPOSED SIZE = (3255 SF)/25 = 130 OCCUPANTS	SF/30 PROPOSED SIZE = (2302 SF)/30 = 77 OCCUPANTS	PROPOSED BATHER LOAD = 130 + 77 = <b>207 OCCUPANTS</b>
2. OUTDOOR	SF/15 PROPOSED SIZE = N/A	SF/30 PROPOSED SIZE = N/A	MAX PROPOSED BATHER LOAD = N/A

### WAC 246-260-031

#### TABLE 031.5 - AMOUNT OF FIXTURES REQUIRED FOR OCCUPANCY LOAD BY SEX

TYPE OF FIXTURE	OCCUPANCY/SEX	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	UNISEX
1. TOILETS	UP TO 120	1/80	1/40	N/A	N/A	N/A	N/A	N/A
	FROM 121-360	1/80	1/60	207/2 = 104/60 = -2	207/2 = 104/60 = -2	N/A	N/A	N/A
	OVER 360	1/150	1/100	N/A	N/A	N/A	N/A	N/A
2. URINALS	UP TO 120	1/80	N/A	N/A	N/A	N/A	N/A	N/A
	FROM 121-360	1/80	N/A	207/2 = 104/80 = -2	N/A	2	N/A	N/A
	OVER 360	1/150	N/A	N/A	N/A	N/A	N/A	N/A
3. SHOWERS	UP TO 120	1/40	1/40	N/A	N/A	N/A	N/A	N/A
	FROM 121-360	1/80	1/60	207/2 = 104/60 = -2	207/2 = 104/60 = -2	2	2	N/A
	OVER 360	1/150	1/100	N/A	N/A	N/A	N/A	N/A
4. SINKS	UP TO 200	1/100	1/100	207/2 = 104/100 = -1	207/2 = 104/100 = -1	1	1	N/A
	FROM 201-400	1/200	1/200	N/A	N/A	N/A	N/A	N/A
	OVER 400	1/400	1/400	N/A	N/A	N/A	N/A	N/A
5. DIAPER CHANGING STATIONS	N/A	1 REQ'D	1 REQ'D					6 PROVIDED

\* SEE TABLE 041.2 ABOVE FOR MAXIMUM BATHING LOAD CALCULATIONS

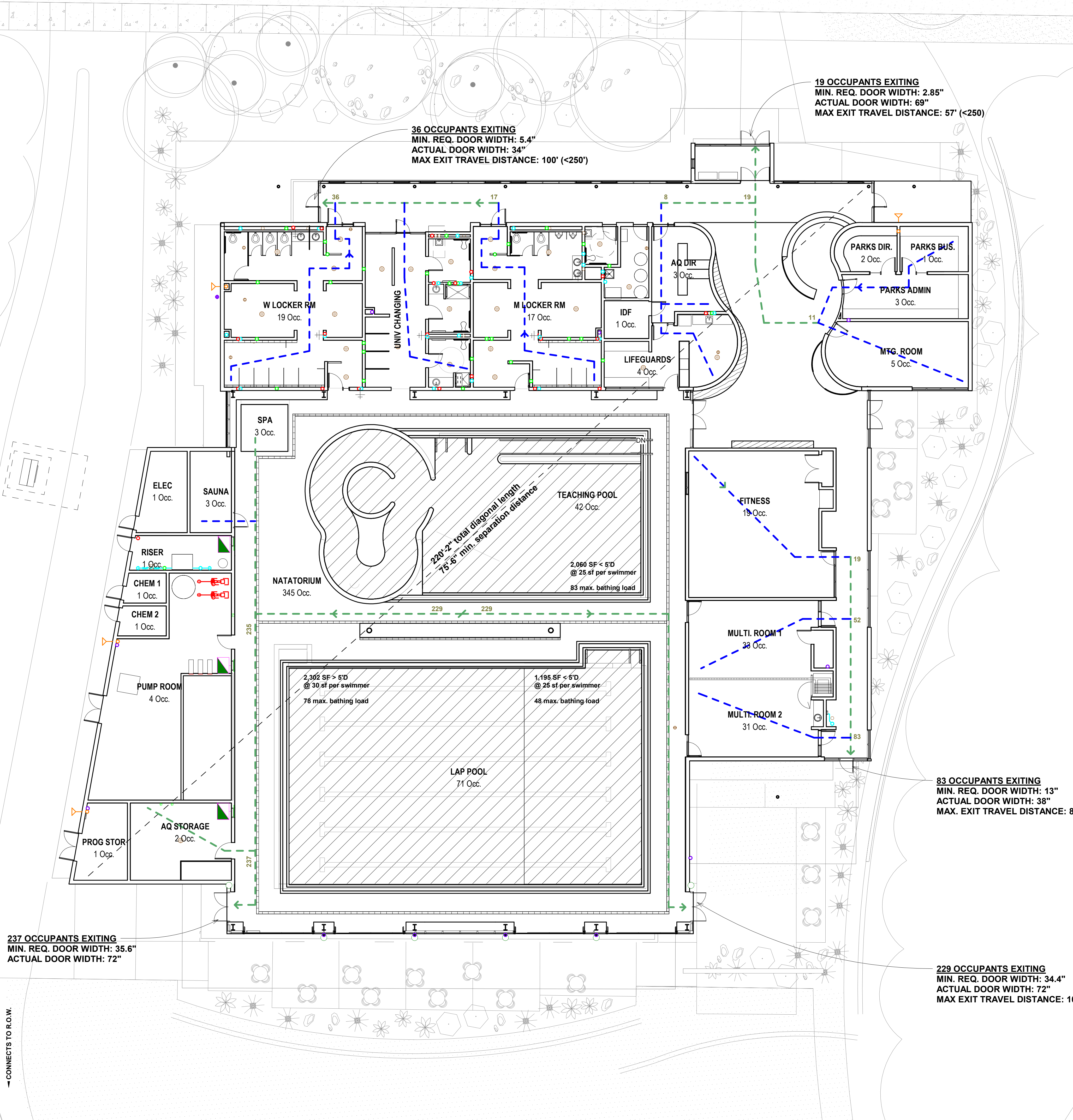
Number	Name	Gross Area	Non-Occupiable Room Area	Net Room Area	Classification (Chapter 3, IBC 2015)	Area Per Occupant (Table 1004.2, IBC 2015)	Occupant Load
001	TEACHING POOL	2060 SF	0 SF	2060 SF	Skating Rinks, Swimming Pools - Rink and Pool	50 SF	42
002	LAP POOL	3512 SF	0 SF	3512 SF	Skating Rinks, Swimming Pools - Rink and Pool	50 SF	71
003	SPA	124 SF	0 SF	124 SF	Skating Rinks, Swimming Pools - Rink and Pool	50 SF	3
100	VEST	122 SF	0 SF	122 SF	Unoccupied Space	0 SF	
101	INDOOR FOREST	1047 SF	0 SF	1047 SF	Unoccupied Space	0 SF	
102	LOBBY	1309 SF	0 SF	1309 SF	Unoccupied Space	0 SF	
103	MTG. ROOM	404 SF	22 SF	382 SF	Business Areas with Sprinkler Protection	100 SF	4
104	PARKS ADMIN	250 SF	35 SF	215 SF	Business Areas with Sprinkler Protection	100 SF	3
105	PARKS DIR.	120 SF	39 SF	81 SF	Business Areas with Sprinkler Protection	100 SF	1
106	PARKS BUS.	140 SF	45 SF	95 SF	Business Areas with Sprinkler Protection	100 SF	1
107	EAST HALL	497 SF	0 SF	497 SF	Unoccupied Space	0 SF	
108	FITNESS	909 SF	8 SF	901 SF	Exercise Rooms	50 SF	19
109	FIT. STOR.	19 SF	0 SF	19 SF	Unoccupied Space	0 SF	
110	MULTI. ROOM 1	446 SF	0 SF	446 SF	Assembly without Fixed Seats - Unconcentrated (Tables and Chairs)	15 SF	30
111	MULTI. STOR.	33 SF	0 SF	33 SF	Unoccupied Space	0 SF	
112	MULTI. ROOM 2	459 SF	0 SF	459 SF	Assembly without Fixed Seats - Unconcentrated (Tables and Chairs)	15 SF	31
113	AQ DIR	240 SF	0 SF	240 SF	Business Areas with Sprinkler Protection	100 SF	3
114	JAN/MECH	114 SF	0 SF	114 SF	Accessory Storage Areas, Mechanical Equipment Room	300 SF	1
115	WC	57 SF	0 SF	57 SF	Unoccupied Space	0 SF	
116	M LOCKER RM	829 SF	0 SF	829 SF	Locker Rooms	50 SF	17
117	UNIV CHANGING	414 SF	0 SF	414 SF	Unoccupied Space	0 SF	
118	W LOCKER RM	940 SF	0 SF	940 SF	Locker Rooms	50 SF	19
119	R.R.	82 SF	0 SF	82 SF	Unoccupied Space	0 SF	
120	R.R.	90 SF	0 SF	90 SF	Unoccupied Space	0 SF	
121	R.R.	90 SF	0 SF	90 SF	Unoccupied Space	0 SF	
122	LIFEGUARDS	345 SF	0 SF	345 SF	Business Areas with Sprinkler Protection	100 SF	4
123	IDF	77 SF	0 SF	77 SF	Accessory Storage Areas, Mechanical Equipment Room	300 SF	1
124	NATATORIUM	5158 SF	323 SF	4835 SF	Skating Rinks, Swimming Pools - Decks	15 SF	323
125	SAUNA	153 SF	56 SF	97 SF	Exercise Rooms	50 SF	2
126	PUMP ROOM	1129 SF	0 SF	1129 SF	Accessory Storage Areas, Mechanical Equipment Room	300 SF	4
127	AQ STORAGE	354 SF	0 SF	354 SF	Accessory Storage Areas, Mechanical Equipment Room	300 SF	2
128	ELEC	162 SF	0 SF	162 SF	Accessory Storage Areas, Mechanical Equipment Room	300 SF	1
129	RISER	156 SF	0 SF	156 SF	Accessory Storage Areas, Mechanical Equipment Room	300 SF	1
130	CHEM 1	55 SF	0 SF	55 SF	Accessory Storage Areas, Mechanical Equipment Room	300 SF	1
131	CHEM 2	63 SF	0 SF	63 SF	Accessory Storage Areas, Mechanical Equipment Room	300 SF	1
132	PROG STOR	165 SF	0 SF	165 SF	Accessory Storage Areas, Mechanical Equipment Room	300 SF	1
Grand total		22123 SF					586



**FIRE SAFETY LEGEND**

- EXIT TRAVEL ---
- COMMON PATH OF TRAVEL ---
- OCCUPANTS 12 34 56

MAXWELTON RD



36 OCCUPANTS EXITING  
 MIN. REQ. DOOR WIDTH: 5.4"  
 ACTUAL DOOR WIDTH: 34"  
 MAX EXIT TRAVEL DISTANCE: 100' (<250')

19 OCCUPANTS EXITING  
 MIN. REQ. DOOR WIDTH: 2.85"  
 ACTUAL DOOR WIDTH: 69"  
 MAX EXIT TRAVEL DISTANCE: 57' (<250')

83 OCCUPANTS EXITING  
 MIN. REQ. DOOR WIDTH: 13"  
 ACTUAL DOOR WIDTH: 38"  
 MAX. EXIT TRAVEL DISTANCE: 85' (<250')

229 OCCUPANTS EXITING  
 MIN. REQ. DOOR WIDTH: 34.4"  
 ACTUAL DOOR WIDTH: 72"  
 MAX EXIT TRAVEL DISTANCE: 107' (<250')

237 OCCUPANTS EXITING  
 MIN. REQ. DOOR WIDTH: 35.6"  
 ACTUAL DOOR WIDTH: 72"

1 LEVEL 1 - Code Plan  
 3/32" = 1'-0"

CONNECTS TO R.O.W.

**S WHIDBEY PARKS & REC  
 AQUATIC REC CENTER**  
 PID 812720 MAXWELTON RD  
 LANGLEY, WA 98260



100% DESIGN  
 DEVELOPMENT

ISSUE DATE: DECEMBER 01, 2023

REVISION SCHEDULE		
Rev #	Date	Description

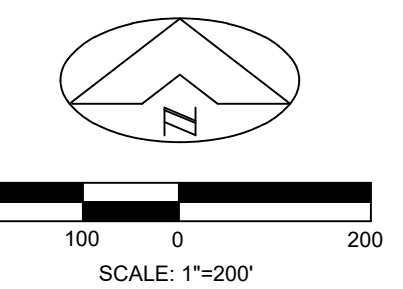
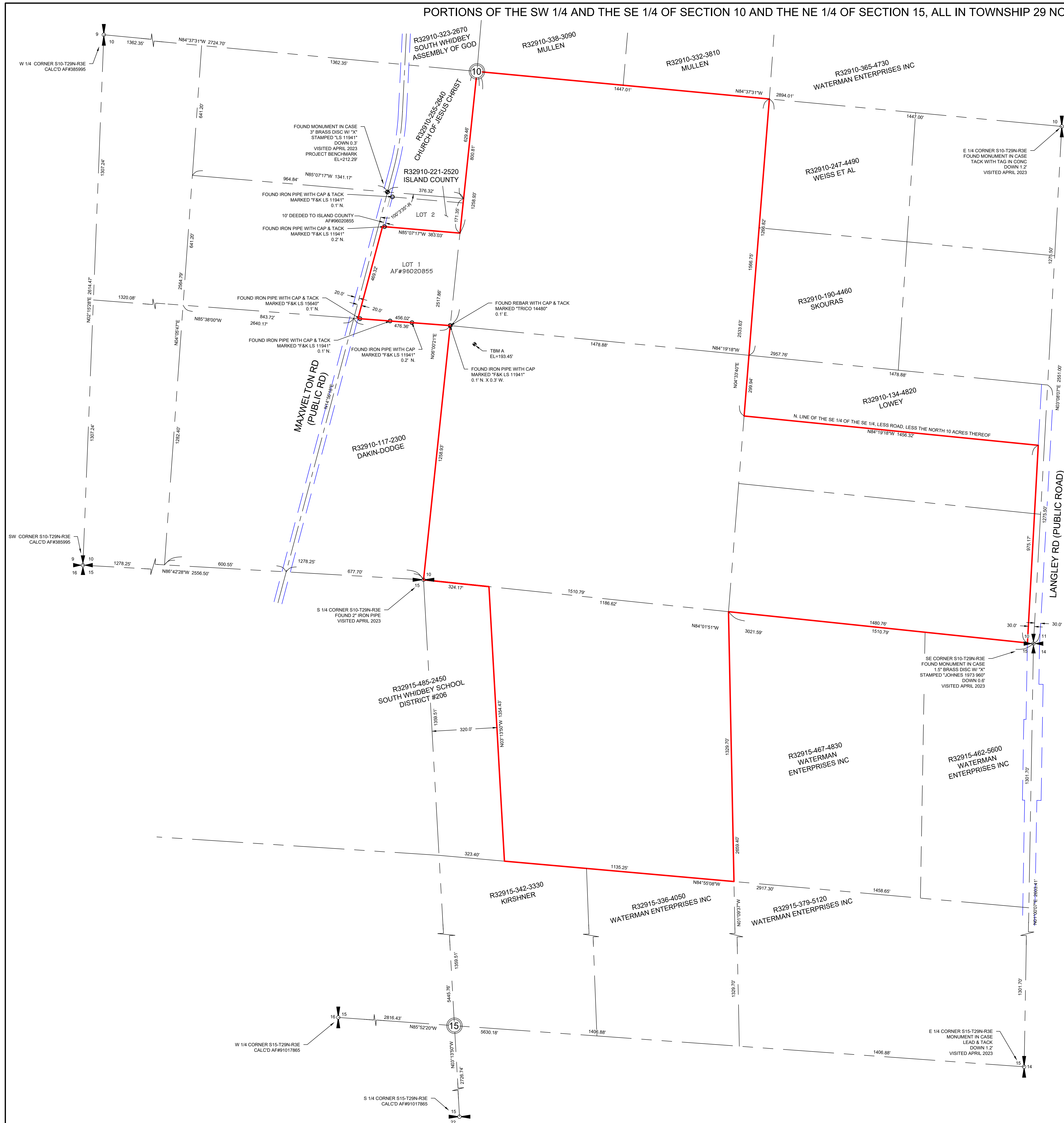
CONTENTS:  
**FIRE SAFETY PLAN**

SCALE: 3/32" = 1'-0"  
 DRAWN: Author  
 CHECKED: Checker  
 PROJECT NO: 202201.000

SHEET:  
**T1.3**



PORTIONS OF THE SW 1/4 AND THE SE 1/4 OF SECTION 10 AND THE NE 1/4 OF SECTION 15, ALL IN TOWNSHIP 29 NORTH, RANGE 3 EAST, W.M.



**LEGAL DESCRIPTION**

THE PROPERTY HEREIN DESCRIBED IS THE SAME PROPERTY DESCRIBED IN CHICAGO TITLE COMPANY OF WASHINGTON COMMITMENT FOR TITLE INSURANCE NUMBER 23645072 DATED APRIL 18, 2023.

LOT 1 OF ISLAND COUNTY SHORT PLAT NO. 247785 R32910-2510 AS APPROVED DECEMBER 6, 1996 AND RECORDED DECEMBER 6, 1996, IN VOLUME 3 OF SHORT PLATS, PAGE 127, UNDER AUDITORS FILE NO. 9602855, RECORDS OF ISLAND COUNTY, WASHINGTON.

AND

THE NORTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 10, TOWNSHIP 29 NORTH, RANGE 3 EAST OF THE WILLAMETTE MERIDIAN.

AND

THE SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 10, TOWNSHIP 29 NORTH, RANGE 3 EAST OF THE WILLAMETTE MERIDIAN.

EXCEPT THE EAST 30 FEET THEREOF FOR COUNTY ROAD KNOWN AS LANGLEY ROAD;

ALSO EXCEPT THE NORTH 10 ACRES THEREOF.

AND THE SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 10, TOWNSHIP 29 NORTH, RANGE 3 EAST OF THE WILLAMETTE MERIDIAN.

TOGETHER WITH AN EASEMENT FOR INGRESS, EGRESS AND UTILITIES, OVER, UNDER AND ACROSS THE SOUTH 60 FEET OF THAT PORTION OF THE NORTHEAST QUARTER OF THE SOUTHWEST QUARTER LYING EAST OF THE COUNTY ROAD KNOWN AS MAXWELTON ROAD AND ALSO THE SOUTH 60 FEET OF THE WEST 60 FEET OF THE NORTHWEST QUARTER OF THE SOUTHWEST QUARTER ALL IN SECTION 10, TOWNSHIP 29 NORTH, RANGE 3 EAST OF THE WILLAMETTE MERIDIAN.

AND

THE NORTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 15, TOWNSHIP 29 NORTH, RANGE 3 EAST OF THE WILLAMETTE MERIDIAN;

EXCEPT FOR THE WEST 320 FEET AS MEASURED PERPENDICULAR TO AND PARALLEL, WITH THE WEST LINE OF THE NORTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 15, TOWNSHIP 29 NORTH, RANGE 3 EAST OF THE WILLAMETTE MERIDIAN;

TOGETHER WITH A NON-EXCLUSIVE EASEMENT FOR INGRESS, EGRESS AND UTILITIES, OVER AND UNDER AND ACROSS THE NORTH 60 FEET OF THE ABOVE DESCRIBED WEST 320 FEET OF THE NORTHEAST QUARTER OF SECTION 15.

ALSO TOGETHER WITH AN EASEMENT FOR INGRESS AND EGRESS, OVER THE SOUTH 40 FEET OF THE NORTH 60 FEET OF THAT PORTION OF THE NORTHEAST QUARTER OF THE NORTHWEST QUARTER OF SECTION 15, TOWNSHIP 29 NORTH, RANGE 3 EAST OF THE WILLAMETTE MERIDIAN, LYING EASTERLY OF THE COUNTY ROAD.

ALL SITUATE IN ISLAND COUNTY, WASHINGTON.

**SURVEY NOTES**

EQUIPMENT: 3" OR LESS TOTAL STATION AND GNSS NETWORK ROVER

METHOD: FIELD TRAVERSE AND WASHINGTON STATE REFERENCE NETWORK GNSS

SURVEY PERFORMED IN APRIL 2023.

THE CLOSURES OF THE FIELD TRAVERSE CONDUCTED DURING THIS SURVEY MEET OR EXCEED THE MINIMUM CLOSURE STANDARDS STATED IN WAC 332-130-090. THE SET AND LOCATED BOUNDARY MONUMENT POSITIONS MEET OR EXCEED THOSE STANDARDS CONTAINED IN WAC 332-130-085.

THE TOPOGRAPHIC ELEMENTS AS SHOWN MEET OR EXCEED THOSE REQUIREMENTS STATED IN WAC 332-130-145.

TOPOGRAPHIC ELEMENTS WERE DERIVED FROM AN ACTUAL SURVEY ON THE GROUND SUPPLEMENTED WITH LOW ALTITUDE PHOTOGRAMMETRIC AND LIDAR DATA COLLECTED BY HARMSEN, LLC ON 4-14-2023.

AERIAL IMAGERY IS ORTHORECTIFIED AND WAS PRODUCED TO MEET ASPRS POSITIONAL ACCURACY STANDARDS FOR DIGITAL GEOSPATIAL DATA (2014) FOR A 1.25cm RMSE HORIZONTAL ACCURACY CLASS WHICH EQUATES TO POSITIONAL HORIZONTAL ACCURACY OF +/- 3.1cm AT A 95% CONFIDENCE LEVEL.

CONTOURS ARE SHOWN AT 1' INTERVALS.

VERTICAL ACCURACY IS PER UNITED STATES NATIONAL MAP ACCURACY STANDARDS

MAXWELTON ROAD RIGHT OF WAY WAS CALCULATED PER THE SHORT PLAT BY FAKKEMA & KINGMA AF#96020855

THE INFORMATION SHOWN ON THIS MAP REPRESENTS THE RESULTS OF A SURVEY MADE ON THE INDICATED DATE AND CAN ONLY BE CONSIDERED AS THE GENERAL EXISTING CONDITION AT THAT TIME.

**BASIS OF BEARING**

TWISTED BETWEEN FOUND MONUMENTS AT THE EAST QUARTER CORNER OF SECTION 10, TOWNSHIP 29 NORTH, RANGE 3 EAST, W.M. AND THE EAST QUARTER CORNER OF SECTION 15, TOWNSHIP 29 NORTH, RANGE 3 EAST, W.M.

ALL DISTANCES SHOWN ARE GROUND DISTANCES. BEARINGS ARE WASHINGTON STATE PLANE NORTH ZONE (NAD83/2011), AND ARE BASED ON GPS OCCUPATIONS UTILIZING THE WASHINGTON STATE REFERENCE NETWORK.

**DATUM BENCHMARK**

PROJECT BENCHMARK: FOUND MONUMENT IN CASE LOCATED ALONG THE CENTERLINE OF MAXWELTON ROAD APPROXIMATELY 600 FEET NORTH OF THE NORTHERLY PARK ENTRANCE. EL=12.29'

**TBM A:**

SET MAG NAIL +/- 21 FEET SOUTH OF THE CENTERLINE OF THE ASPHALT ACCESS ROAD AND 24 FEET WEST OF THE EAST EDGE OF ASPHALT FOR THE WESTERLY BASKETBALL ACCESS AND +/- 30' NORTH OF THE CHAINLINK FENCE AT THE NORTHERLY END OF THE BASKETBALL COURTS. EL=193.45'

**SITE DATA**

SITE ADDRESS: LANGLEY, WA 98260  
 TAX PARCEL NUMBER: R32910-051-0750  
 GROSS SITE AREA: 6,898.384 SF (158.319 ACRES)

**SURVEY REFERENCES**

R SHORT PLAT BY FAKKEMA & KINGMA AF#96020855  
 RECORD OF SURVEY BY MEAD & SONS AF#385095  
 RECORD OF SURVEY BY DATUM PACIFIC AF#91017865

**CERTIFICATION**

TO SOUTH WHIDBEY PARK AND RECREATION DISTRICT AND CHICAGO TITLE COMPANY OF WASHINGTON, THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2021 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTANSPLS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS AND INCLUDE ITEMS 1, 2, 3, 4, 5, 8, 11(b), 13, 14, 15, AND 16 OF TABLE A THEREOF. THE FIELD WORK WAS COMPLETED ON APRIL 17, 2023.

*Aaron Ely Tyson*  
 AARON ELY TYSON REGISTRATION NO. 53114  
 WEBSITE: www.harmсенllc.com  
 EMAIL: aaron@harmсенllc.com

8-12-23  
 DATE

REVISIONS: 8-12-23: DIMENSION EDITS

8-12-23

**HARMSEN**  
 2822 COLBY AVE.  
 SUITE 300  
 EVERETT, WA 98201  
 (360) 794-7811  
 (360) 343-5603  
 FAX: (360) 805-9732

ALTANSPLS LAND TITLE SURVEY  
 FOR  
 SOUTH WHIDBEY PARK AND RECREATION DISTRICT

PORTIONS OF THE SW 1/4 AND THE SE 1/4 OF SECTION 10 AND THE NE 1/4 OF SECTION 15, ALL IN TOWNSHIP 29 NORTH, RANGE 3 EAST, W.M.

ISLAND COUNTY, WASHINGTON

DRAWN BY: AET

DATE: 05/16/2023

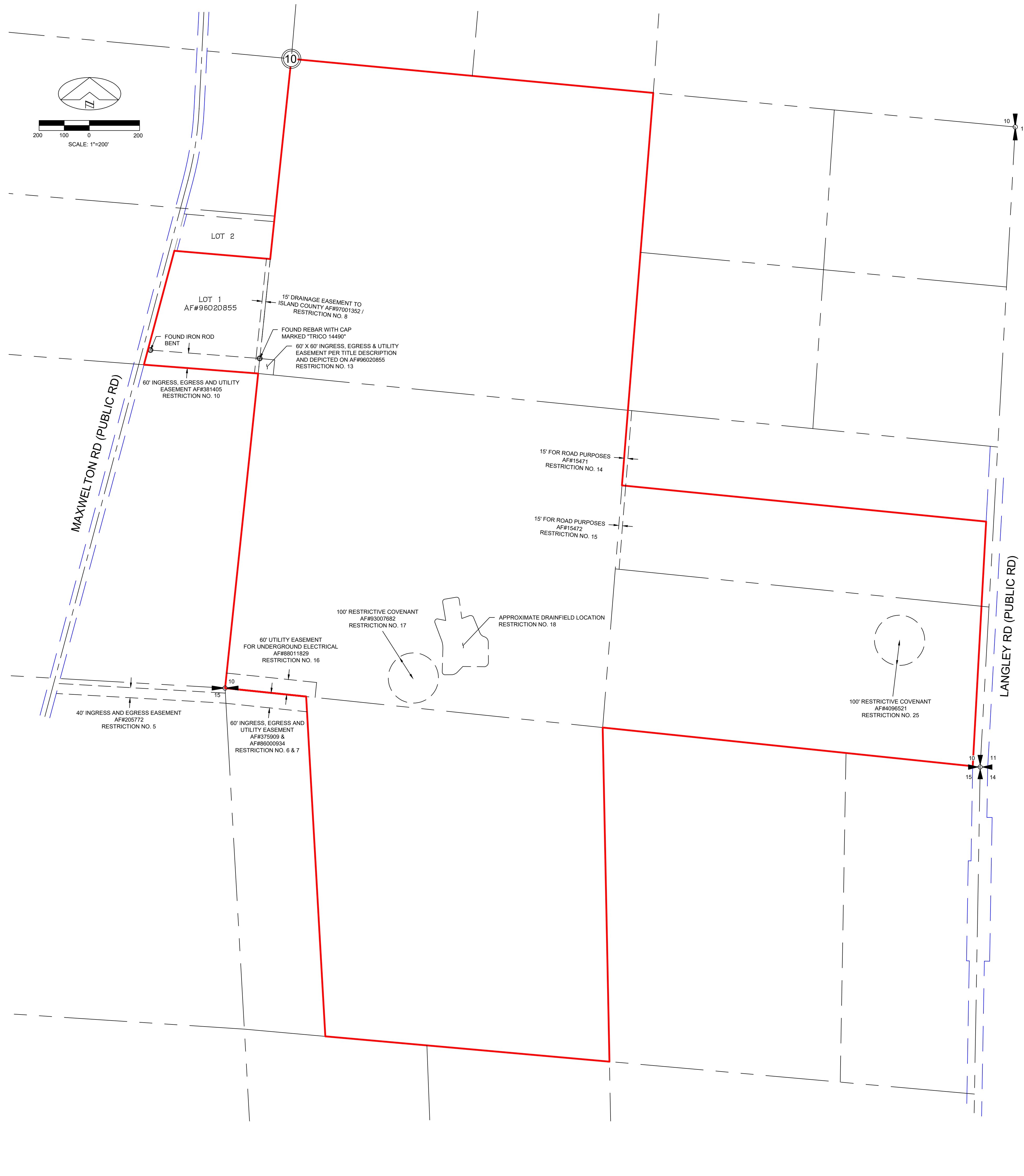
PROJECT NO: 23-093

SHEET NO: 1 OF 6

**S1**



PORTIONS OF THE SW 1/4 AND THE SE 1/4 OF SECTION 10 AND THE NE 1/4 OF SECTION 15, ALL IN TOWNSHIP 29 NORTH, RANGE 3 EAST, W.M.



**TITLE REPORT SPECIAL EXCEPTIONS**

PER CHICAGO TITLE COMPANY OF WASHINGTON COMMITMENT FOR TITLE INSURANCE NUMBER 245456727, DATED APRIL 18, 2023.

- REFERS TO TAXES AND IS NOT A SURVEY MATTER.
- UNPATENTED MINING CLAIMS, RESERVATIONS OR EXCEPTIONS IN THE UNITED STATES PATENTS OR IN ACTS AUTHORIZING THE ISSUANCE THEREOF; WATER RIGHTS, CLAIMS OR TITLE TO WATER.
- TITLE TO ANY PROPERTY BEYOND THE LINES OF THE REAL PROPERTY EXPRESSLY DESCRIBED HEREIN, OR TITLE TO STREETS, ROADS, AVENUES, LANES, WAYS OR WATERWAYS ON WHICH SUCH REAL PROPERTY ABUTS, OR THE RIGHT TO MAINTAIN THEREIN VAULTS, TANKS, DAMPS, OR ANY OTHER STRUCTURE OR IMPROVEMENT, OR ANY RIGHTS OR EASEMENTS THEREIN UNLESS SUCH PROPERTY, RIGHTS OR EASEMENTS ARE EXPRESSLY AND SPECIFICALLY SET FORTH IN SAID DESCRIPTION.
- AFFECT, IF ANY, OF AFFIDAVIT OF IDENTITY WHICH DISCLOSED AN UNRECORDED OIL AND GAS LEASE DATED FEBRUARY 11, 1960 IN FAVOR OF STANDARD OIL COMPANY OF CALIFORNIA.  
 GRANTED TO: UNRECORDED  
 RECORDING DATE: DECEMBER 1, 1961  
 RECORDING NO.: 14945  
 (AFFECTS THE NW 1/4 OF THE NE 1/4 OF SECTION 15 - NOTHING TO DEPICT GRAPHICALLY)  
 NOTE: A SUBSEQUENT OIL AND GAS LEASE WAS RECORDED ON NOVEMBER 6, 1970 UNDER AUDITOR'S FILE NO. 230447 AND WAS RELEASED BY AUDITOR'S FILE NO. 281098.
- EASEMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO, AS GRANTED IN A DOCUMENT.  
 GRANTED TO: ARTHUR P. & DORA M. GABELEN  
 PURPOSE: INGRESS AND EGRESS  
 RECORDING DATE: FEBRUARY 5, 1969  
 RECORDING NO.: 20572  
 (AFFECTS PROPERTY AND LOCATION IS SHOWN)
- TERMS AND CONDITIONS OF EASEMENT FOR INGRESS, EGRESS AND UTILITIES AS DISCLOSED BY INSTRUMENT.  
 RECORDING DATE: NOVEMBER 7, 1960  
 RECORDING NO.: 37509  
 (AFFECTS PROPERTY AND LOCATION IS SHOWN)
- EASEMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO, AS DISCLOSED IN A DOCUMENT.  
 GRANTED TO: UNRECORDED  
 PURPOSE: INGRESS, EGRESS AND UTILITIES  
 RECORDING DATE: JANUARY 24, 1986  
 RECORDING NO.: 8600393  
 (THIS COVERS THE SAME AREA AS RESTRICTION NO. 6 AND THE LOCATION IS SHOWN)
- EASEMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO, AS GRANTED IN A DOCUMENT.  
 GRANTED TO: ISLAND COUNTY  
 PURPOSE: DRAINAGE  
 RECORDING DATE: JANUARY 31, 1997  
 RECORDING NO.: 9700352  
 AFFECTS: THE EAST 15 FEET OF LOT 1 SHORT PLAT NO. 24705  
 (AFFECTS PROPERTY AND LOCATION IS SHOWN)
- DEED OF RIGHT TO USE LAND FOR PUBLIC OUTDOOR RECREATION PURPOSES INCLUDING THE TERMS, COVENANTS AND PROVISIONS THEREOF.  
 RECORDING DATE: OCTOBER 16, 2018  
 RECORDING NO.: 445377  
 (NOT A SURVEY MATTER / NOTHING TO SHOW)
- EASEMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO AS RESERVED IN A DOCUMENT.  
 PURPOSE: INGRESS, EGRESS AND UTILITIES  
 RECORDING DATE: APRIL 7, 1981  
 RECORDING NO.: 381405  
 (AFFECTS PROPERTY AND LOCATION IS SHOWN)
- EASEMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO, AS GRANTED IN A DOCUMENT.  
 GRANTED TO: WHIDBEY TELEPHONE COMPANY  
 PURPOSE: UNDERGROUND COMMUNICATION CABLES AND ASSOCIATED COMMUNICATIONS FACILITIES AND EQUIPMENT  
 RECORDING DATE: JULY 23, 1984  
 RECORDING NO.: 9400950  
 (BLANKET EASEMENT OVER THAT PORTION WITHIN THE SW 1/4 OF S10-T29N-R3E)
- AFFIDAVIT INCLUDING THE TERMS, COVENANTS AND PROVISIONS THEREOF.  
 RECORDING DATE: OCTOBER 10, 1988  
 RECORDING NO.: 8801262  
 REGARDING: BUILDING PERMIT AND CONSTRUCTION  
 (NOT A SURVEY MATTER / NOTHING TO SHOW)
- COVENANTS, CONDITIONS, RESTRICTIONS, RECITALS, RESERVATIONS, EASEMENTS, EASEMENT PROVISIONS, ENCROACHMENTS, DEDICATIONS, BUILDING SETBACK LINES, NOTES, STATEMENTS, AND OTHER MATTERS, IF ANY, BUT OMITTING ANY COVENANTS OR RESTRICTIONS, IF ANY, INCLUDING BUT NOT LIMITED TO THOSE BASED UPON RACE, COLOR, RELIGION, SEX, SEXUAL ORIENTATION, FAMILIAL STATUS, MARITAL STATUS, DISABILITY, HANDICAP, NATIONAL ORIGIN, ANCESTRY, OR SOURCE OF INCOME, AS SET FORTH IN APPLICABLE STATE OR FEDERAL LAWS, EXCEPT TO THE EXTENT THAT SAID COVENANT OR RESTRICTION IS PERMITTED BY APPLICABLE LAW, AS SET FORTH ON SHORT PLAT NO. 24795.  
 RECORDING NO.: 9620855  
 (ITEMS THAT CAN BE DEPICTED ARE SHOWN)
- EASEMENT, INCLUDING THE TERMS AND CONDITIONS THEREOF, RESERVED BY INSTRUMENT(S).  
 RECORDED: JANUARY 5, 1916  
 RECORDING NO.: 15471  
 FOR: ROAD PURPOSES  
 (AFFECTS PROPERTY AND LOCATION IS SHOWN)
- EASEMENT, INCLUDING THE TERMS AND CONDITIONS THEREOF, RESERVED BY INSTRUMENT(S).  
 RECORDED: JANUARY 5, 1916  
 RECORDING NO.: 15472  
 FOR: ROAD PURPOSES  
 (AFFECTS PROPERTY AND LOCATION IS SHOWN)
- EASEMENT, INCLUDING THE TERMS AND CONDITIONS THEREOF, GRANTED BY INSTRUMENT.  
 RECORDED: SEPTEMBER 21, 1988  
 AUDITOR'S NO.: 8801829, RECORDS OF ISLAND COUNTY, WASHINGTON  
 IN FAVOR OF: PUGET SOUND POWER & LIGHT COMPANY  
 FOR: UNDERGROUND ELECTRIC SYSTEM, TOGETHER WITH NECESSARY APPURTENANCES  
 (AFFECTS PROPERTY AND LOCATION IS SHOWN)
- TERMS AND CONDITIONS CONTAINED IN INSTRUMENT.  
 RECORDED: APRIL 28, 1993  
 AUDITOR'S NO.: 9300762, RECORDS OF ISLAND COUNTY, WASHINGTON  
 FOR: PREVENTING CONTAMINATION OF WATER SUPPLY  
 AFFECTS: ANY PORTION OF SAID PREMISES LYING WITHIN 100 FEET OF WELL  
 (AFFECTS PROPERTY AND LOCATION SHOWN IS APPROXIMATE, THE WELL WAS NOT LOCATED AS PART OF THE SURVEY)
- AGREEMENT, INCLUDING THE TERMS AND CONDITIONS THEREOF, ENTERED INTO.  
 FOR: ISLAND COUNTY HEALTH DEPARTMENT  
 AND BETWEEN: SOUTH WHIDBEY PARKS & RECREATION DISTRICT  
 RECORDED: FEBRUARY 18, 1998  
 AUDITOR'S NO.: 98002964, RECORDS OF ISLAND COUNTY, WASHINGTON  
 PROVIDING: OPERATION AND MAINTENANCE OF ON-SITE SEWAGE SYSTEM  
 (AFFECTS PROPERTY AND APPROXIMATE LOCATION OF DRAINFIELD IS SHOWN BASED ON THE AS-BUILT MAP PROVIDED)
- COVENANTS, CONDITIONS, RESTRICTIONS, RECITALS, RESERVATIONS, EASEMENTS, EASEMENT PROVISIONS, ENCROACHMENTS, DEDICATIONS, BUILDING SETBACK LINES, NOTES, STATEMENTS, AND OTHER MATTERS, IF ANY, BUT OMITTING ANY COVENANTS OR RESTRICTIONS, IF ANY, INCLUDING BUT NOT LIMITED TO THOSE BASED UPON RACE, COLOR, RELIGION, SEX, SEXUAL ORIENTATION, FAMILIAL STATUS, MARITAL STATUS, DISABILITY, HANDICAP, NATIONAL ORIGIN, ANCESTRY, OR SOURCE OF INCOME, AS SET FORTH IN APPLICABLE STATE OR FEDERAL LAWS, EXCEPT TO THE EXTENT THAT SAID COVENANT OR RESTRICTION IS PERMITTED BY APPLICABLE LAW, AS SET FORTH ON SURVEY.  
 RECORDING NO.: 389995  
 (THIS IS A RECORD OF SURVEY OF THE SW 1/4 OF THE SE 1/4 OF SECTION 10. THE EASEMENT SHOWN IS ALREADY COVERED UNDER RESTRICTIONS 15.)
- COVENANTS, CONDITIONS, RESTRICTIONS, RECITALS, RESERVATIONS, EASEMENTS, EASEMENT PROVISIONS, ENCROACHMENTS, DEDICATIONS, BUILDING SETBACK LINES, NOTES, STATEMENTS, AND OTHER MATTERS, IF ANY, BUT OMITTING ANY COVENANTS OR RESTRICTIONS, IF ANY, INCLUDING BUT NOT LIMITED TO THOSE BASED UPON RACE, COLOR, RELIGION, SEX, SEXUAL ORIENTATION, FAMILIAL STATUS, MARITAL STATUS, DISABILITY, HANDICAP, NATIONAL ORIGIN, ANCESTRY, OR SOURCE OF INCOME, AS SET FORTH IN APPLICABLE STATE OR FEDERAL LAWS, EXCEPT TO THE EXTENT THAT SAID COVENANT OR RESTRICTION IS PERMITTED BY APPLICABLE LAW, AS SET FORTH ON SURVEY.  
 RECORDING NO.: 90001431  
 (THIS IS A RECORD OF SURVEY OF THE EASEMENT COVERED BY RESTRICTION 16 AND THE LOCATION IS SHOWN.)

**TITLE REPORT SPECIAL EXCEPTIONS CONTINUED**

- EASEMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO, AS GRANTED IN A DOCUMENT.  
 GRANTED TO: PUGET SOUND ENERGY, INC.  
 PURPOSE: ELECTRIC TRANSMISSION AND/OR DISTRIBUTION LINE, TOGETHER WITH NECESSARY APPURTENANCES  
 RECORDING DATE: MARCH 20, 2012  
 RECORDING NO.: 4311941  
 (THIS EASEMENT COVERS AS CONSTRUCTED LINES WITHIN THE SW 1/4 OF THE SE 1/4 AND THE NW 1/4 OF THE SE 1/4 OF SECTION 10 AND DOES NOT GIVE ENOUGH INFORMATION TO DEPICT GRAPHICALLY)
- EASEMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO, AS GRANTED IN A DOCUMENT.  
 GRANTED TO: WHIDBEY TELEPHONE COMPANY  
 PURPOSE: UNDERGROUND COMMUNICATION CABLES AND ASSOCIATED COMMUNICATIONS FACILITIES AND EQUIPMENT  
 RECORDING DATE: OCTOBER 16, 2012  
 RECORDING NO.: 432549  
 (THIS IS A BLANKET EASEMENT WITHIN THE SW 1/4 OF THE SE 1/4 AND THE NW 1/4 OF SECTION 10 AND DOES NOT GIVE ENOUGH INFORMATION TO DEPICT GRAPHICALLY)
- EASEMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO, AS GRANTED IN A DOCUMENT.  
 GRANTED TO: WHIDBEY TELEPHONE COMPANY  
 PURPOSE: UNDERGROUND COMMUNICATION CABLES AND ASSOCIATED COMMUNICATIONS FACILITIES AND EQUIPMENT  
 RECORDING DATE: FEBRUARY 23, 1978  
 RECORDING NO.: 327915  
 (THIS IS A BLANKET EASEMENT WITHIN THE SE 1/4 OF THE SE 1/4 OF SECTION 10 AND DOES NOT GIVE ENOUGH INFORMATION TO DEPICT GRAPHICALLY)
- AGREEMENT INCLUDING THE TERMS, COVENANTS AND PROVISIONS THEREOF.  
 RECORDING DATE: FEBRUARY 2, 1997  
 RECORDING NO.: 9700265  
 (NOT A SURVEY MATTER / NOTHING TO SHOW)
- DECLARATION OF COVENANT INCLUDING THE TERMS, COVENANTS AND PROVISIONS THEREOF.  
 RECORDING DATE: APRIL 8, 2004  
 RECORDING NO.: 4096521  
 REGARDING: WELL AND WATERWORKS  
 (AFFECTS PROPERTY AND LOCATION SHOWN IS APPROXIMATE, THE WELL WAS NOT LOCATED AS PART OF THE SURVEY)
- LOT COMBO INCLUDING THE TERMS, COVENANTS AND PROVISIONS THEREOF RECORDING DATE: APRIL 6, 2017  
 RECORDING NO.: 4420183  
 NOTE: THE LEGAL DESCRIPTION SUPPLIED FOR PARCEL R32916-191-2470 WAS FOR THE ENTIRE SHORT PLAT 24796 RECORDED UNDER AUDITOR'S FILE NO. 8602855. THIS TAX PARCEL IS ONLY FOR LOT ONE OF SAID SHORT PLAT. LOT 2 IS NOT OWNED BY SOUTH WHIDBEY PARK AND RECREATION DISTRICT. THEREFORE THE LEGAL DESCRIPTION USED TO ESTABLISH THIS LOT COMBINATION IS ERRONEOUS. (THIS IS A LOT CONSOLIDATION AND AFFECTS THE PROPERTY HOWEVER THERE IS NO INFORMATION TO SHOW)

**TABLE A NOTES**

- THE FULL PROPERTY WAS NOT SURVEYED ON THE GROUND. PROPERTY CORNERS WERE FOUND OR SET IN THE AREA REQUESTED BY THE CLIENT AND ARE SHOWN HEREIN.
- NO SITE SPECIFIC ADDRESS IS LISTED ON THE COUNTY SITE.
- PROPERTY IS LOCATED WITHIN ZONE X ACCORDING TO FIRM 53029030345F - EFFECTIVE DATE 3/07/2017.
- GROSS LAND AREA IS SHOWN UNDER SITE DATA ON SHEET 1.
- VERTICAL RELIEF IS SHOWN ON SHEET 4-B. SOURCE AND CONTOUR INTERVALS ARE STATED WITHIN THE SURVEY NOTES ON SHEET 1. BENCHMARK AND DATUM INFORMATION IS SHOWN ON SHEET 1.
- ALL SUBSTANTIAL FEATURES OBSERVED WITHIN THE REQUESTED AREA ARE SHOWN.
- UTILITY LOCATES WITHIN THE REQUESTED AREA WERE PROVIDED BY APPLIED PROFESSIONAL SERVICES IN APRIL OF 2023.
- NAMES OF ADJOINING OWNERS ARE SHOWN ON SHEET 1.
- THE NEAREST INTERSECTION FROM THE PARK ENTRANCE OFF OF MAXWELTON ROAD IS THE INTERSECTION OF MAXWELTON RD AND RIVENDELL RD. AND IS APPROXIMATELY 3.300 FEET NORTH OF THE PARK ENTRANCE.
- AERIAL IMAGERY AND LOW ALTITUDE LIDAR WERE USED IN THE FORESTED AREAS SHOWN HEREIN WITH RANDOM SPOT CHECKS TO VERIFY ACCURACY. THE INTENDED PROCESS WAS DISCUSSED WITH THE CLIENT DURING CONTRACT NEGOTIATIONS. INFORMATION SPECIFIC TO THE SOURCE, PRECISION AND DATES ARE STATED IN THE SURVEY NOTES ON SHEET 1.
- NO EVIDENCE OF RECENT EARTH WORK OR BUILDING CONSTRUCTION WAS OBSERVED IN THE PROCESS OF CONDUCTING THE FIELDWORK.

REVISIONS: 6-21-2023: ADDED WELL AND DRAINFIELD INFORMATION NEAR WESTERLY PORTION OF PROPERTY.



**HARMSEN**  
 2822 COLBY AVE.  
 SUITE 300  
 EVERETT, WA 98201  
 (800) 794-7811  
 (360) 343-5803  
 FAX: (800) 805-9732

ALTAIR LAND TITLE SURVEY FOR SOUTH WHIDBEY PARK AND RECREATION DISTRICT  
 PORTIONS OF THE SW 1/4 AND THE SE 1/4 OF SECTION 10 AND THE NE 1/4 OF SECTION 15, ALL IN TOWNSHIP 29 NORTH, RANGE 3 EAST, W.M.  
 ISLAND COUNTY, WASHINGTON

DRAWN BY:	AET
DATE:	05/16/2023
PROJECT NO:	23-093
SHEET NO:	2 OF 6

**S2**

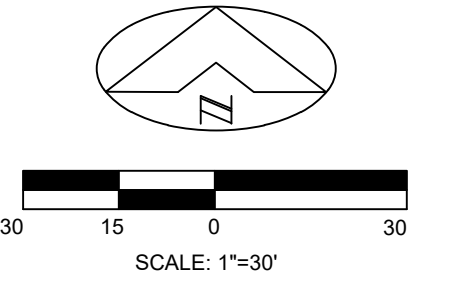












SHEET 5 OF 6

PORTIONS OF THE SW 1/4 AND THE SE 1/4 OF SECTION 10 AND THE NE 1/4 OF SECTION 15, ALL IN TOWNSHIP 29 NORTH, RANGE 3 EAST, W.M.

R32910-117-2300  
DAKIN-DODGE

S5

**ALTA/NSPS LAND TITLE SURVEY**  
FOR  
**SOUTH WHIDBEY PARK AND RECREATION DISTRICT**

PORTIONS OF THE SW 1/4 AND THE SE 1/4 OF SECTION 10 AND THE NE 1/4 OF SECTION 15, ALL IN TOWNSHIP 29 NORTH, RANGE 3 EAST, W.M.

ISLAND COUNTY, WASHINGTON

**HARMSSEN**

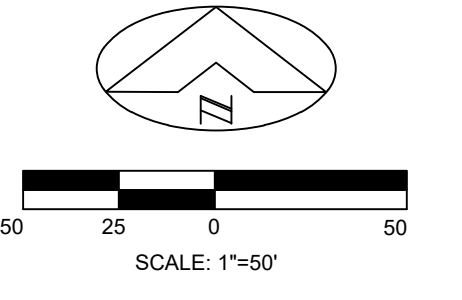
2822 COLBY AVE.  
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EVERETT, WA 98201

(360) 794-7811  
(206) 343-5903  
FAX: (360) 805-9732

6-21-2023

REVISIONS: 6-21-2023 - ADDED WELL AND DRAINFIELD INFORMATION NEAR WESTERLY PORTION OF PROPERTY.





SHEET 6 OF 6

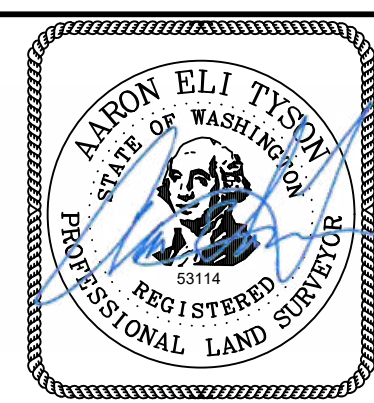
PORTIONS OF THE SW 1/4 AND THE SE 1/4 OF SECTION 10 AND THE NE 1/4 OF SECTION 15, ALL IN TOWNSHIP 29 NORTH, RANGE 3 EAST, W.M.

S6

DRAWN BY: AET  
 DATE: 06/16/2023  
 PROJECT NO: 21-093  
 SHEET NO: 6 OF 6

**ALTA/NSPS LAND TITLE SURVEY**  
 FOR  
**SOUTH WHIDBEY PARK AND RECREATION DISTRICT**  
 PORTIONS OF THE SW 1/4 AND THE SE 1/4 OF SECTION 10 AND THE NE 1/4 OF SECTION 15, ALL IN TOWNSHIP 29 NORTH, RANGE 3 EAST, W.M.  
 ISLAND COUNTY, WASHINGTON

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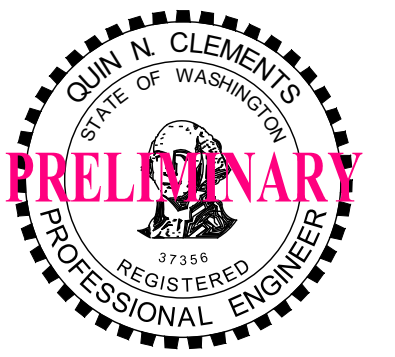
6-21-2023

REVISIONS: 6-21-2023 - ADDED WELL AND DRAINFIELD INFORMATION NEAR WESTERLY PORTION OF PROPERTY.

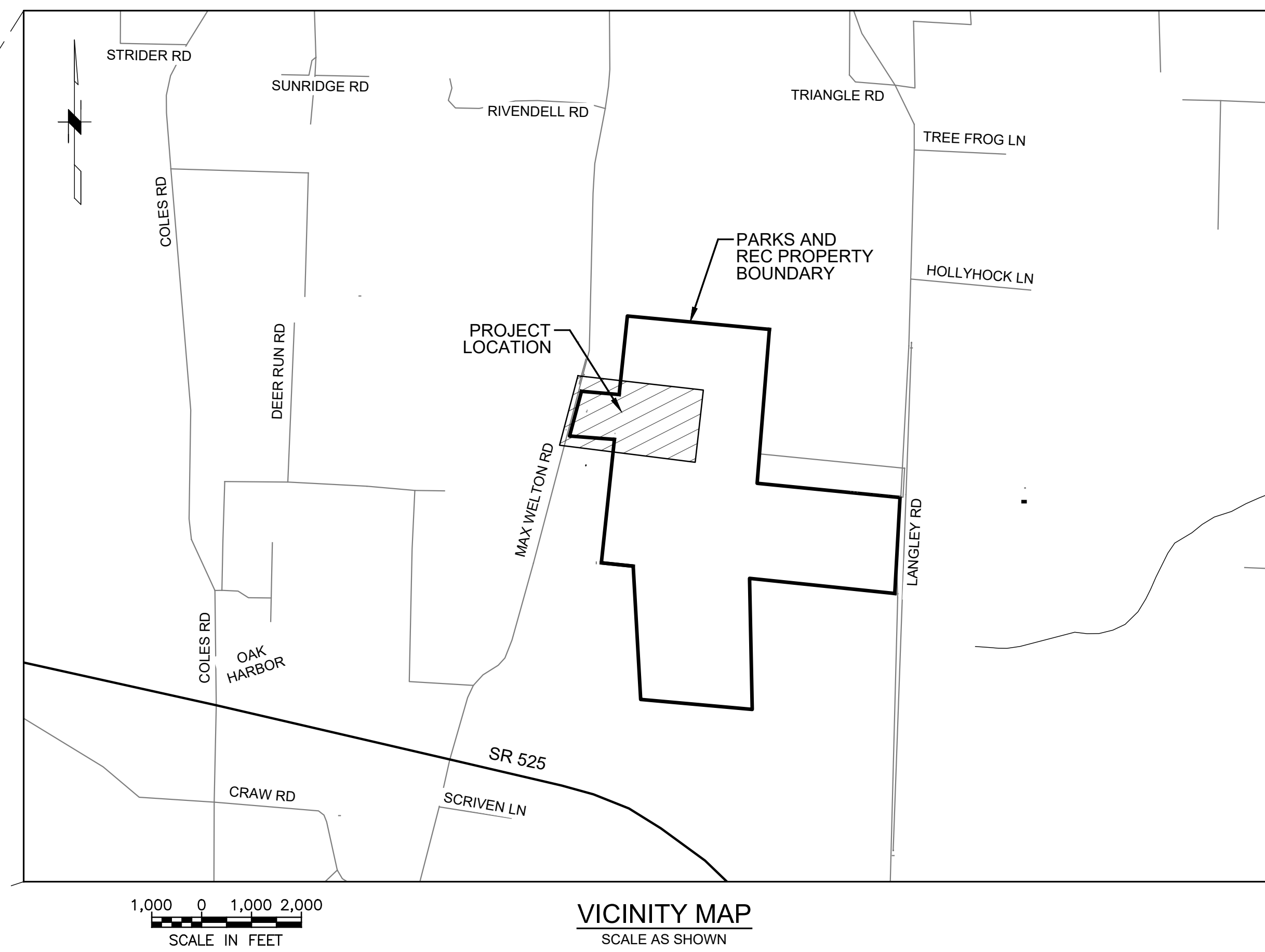
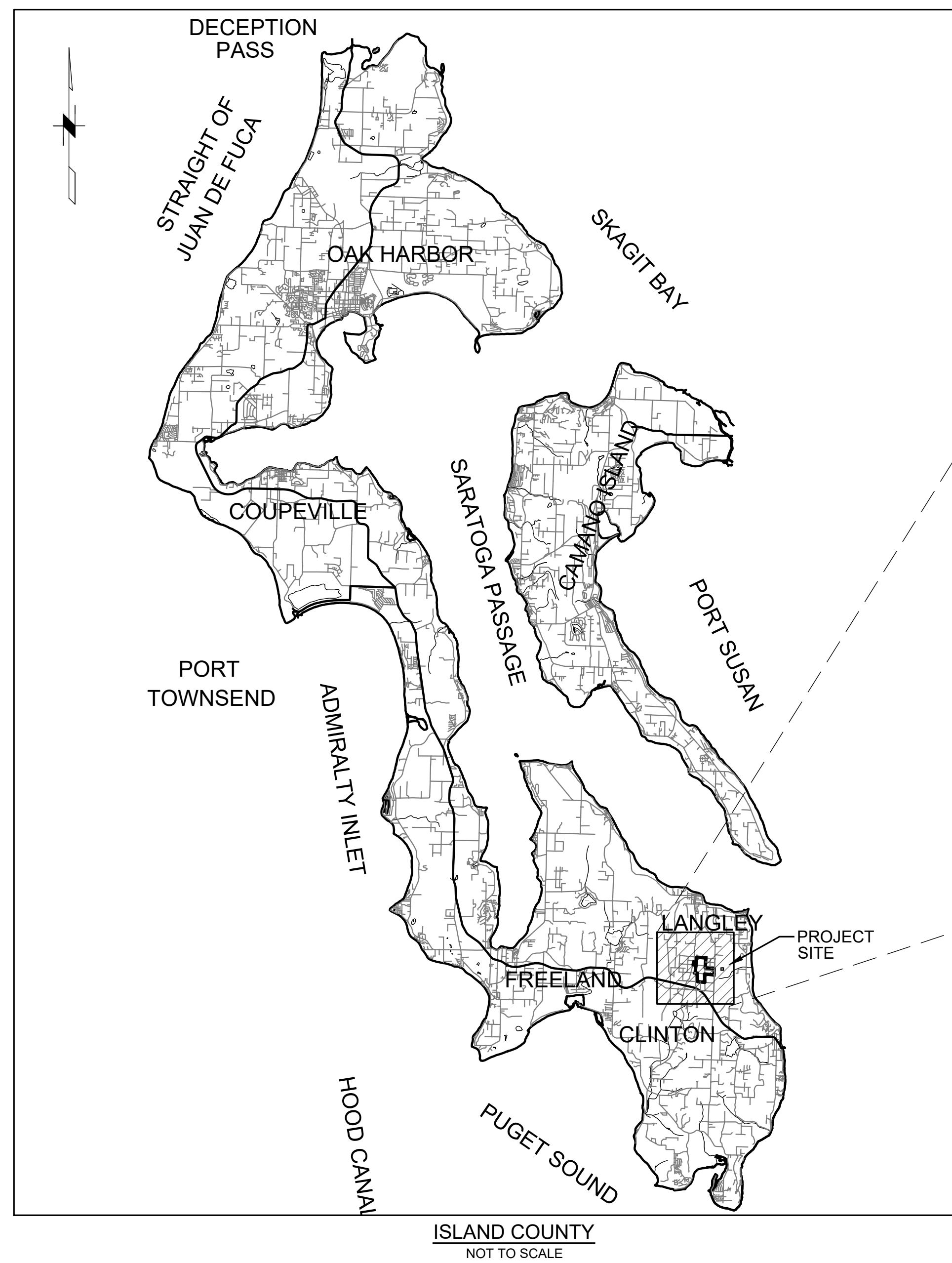


# SOUTH WHIDBEY PARKS AQUATIC CENTER LARGE ON-SITE SEWAGE SYSTEM (LOSS) LANGLEY, WASHINGTON

**arc**  
architecture resource collaborative  
119 MAIN ST, STE #200  
SEATTLE, WA 98104-2579  
(206) 322-3322



**DCG WATERSHED**  
P.O. Box 1132  
Freeland, WA 98249  
www.dcgwatershed.com  
FEDERAL HWY 160/BLAND MOUNT TERNUM SEATTLE (SPokane) WHIDBEY ISLAND



**PROJECT INFORMATION:**

**OWNER:**  
SOUTH WHIDBEY PARKS AND RECREATION DISTRICT  
5475 MAXWELTON RD  
LANGLEY, WA 98260  
PH: 360.221.5484

**PROJECT ADDRESS:**  
5495 MAXWELTON RD  
LANGLEY, WA 98260

**SURVEYOR:**  
AARON E. TYSON, P.L.S.  
HARMSEN & ASSOCIATES, INC.  
2822 COLBY AVE, SUITE 300  
EVERETT, WA 98201  
PH: 360.794.7811

**CIVIL ENGINEER:**  
QUIN CLEMENTS, P.E.  
DCG/WATERSHED, INC.  
P.O. BOX 1132  
FREELAND, WA 98249  
PH: 360.331.4131

**SITE PARCEL:**  
R32910-091-3750

SHEET INDEX	
SHEET #	SHEET TITLE
C01	COVER SHEET
C02	NOTES
C03	OVERALL PLAN
C04	SOILS LOG SITE PLAN
C05	DETAILS
C06	DETAILS
C07	DETAILS
C08	DETAILS
C09	DETAILS
C10	DETAILS
C11	DETAILS
C12	DETAILS
C13	DETAILS

**S WHIDBEY PARKS & REC  
AQUATIC REC CENTER**  
PID 812720 MAXWELTON RD  
LANGLEY, WA 98260



**100% DESIGN  
DEVELOPMENT**

ISSUE DATE: DECEMBER 01, 2023

REVISION SCHEDULE		
Rev #	Date	Description

**CONTENTS:**  
**SHEET**

**COVER SHEET**

SCALE: SEE BAR SCALE  
DRAWN: GR  
CHECKED: QC  
PROJECT NO: 2022021.000

**SHEET:**  
**C01** OF 13



**GENERAL NOTES**

- ALL ELEVATIONS BASED ON NAVD 88 VERTICAL DATUM.
- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH WASHINGTON STATE DEPARTMENT OF HEALTH STANDARDS UNLESS NOTED OTHERWISE.
- WASHINGTON LAW REQUIRES THAT CONTRACTORS NOTIFY "ONE CALL" UTILITY LOCATION CENTER PRIOR TO COMMENCING EXCAVATIONS. YOU MUST NOTIFY THE CENTER AT LEAST 2 BUSINESS DAYS BEFORE COMMENCING AN EXCAVATION. CALL 1-800-424-5555
- COLLECTION LINES/SEWERS, LIFT STATIONS, AND MANHOLES MUST MEET WASHINGTON'S DEPARTMENT OF ECOLOGY'S PUBLICATION "CRITERIA FOR SEWAGE WORKS DESIGN."
- THE DESIGN ENGINEER MUST CONDUCT OR WITNESS WATERTIGHTNESS TESTING OF ALL TANKS, PRESSURE TESTING OF ALL CONVEYANCE PIPING, AND PRESSURE TESTING OF THE DRAINFIELDS.

**CONSTRUCTION NOTES:**

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH WASHINGTON STATE DEPARTMENT OF HEALTH STANDARDS.
- ANY VARIANCE FROM ADOPTED STATE STANDARDS IS NOT ALLOWED UNLESS SPECIFICALLY APPROVED BY THE STATE STAFF PRIOR TO CONSTRUCTION.
- IT SHALL BE THE APPLICANTS/CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL CONSTRUCTION EASEMENTS AND PERMITS NECESSARY BEFORE STARTING OFF-SITE WORK.
- CONSTRUCTION ACTIVITY SHALL BE LIMITED TO BETWEEN THE HOURS OF 7:00 AM TO 7:00 PM WEEKDAYS AND 9:00 AM TO 7:00 PM ON WEEKENDS.
- INTERRUPTION OF NORMAL TRAFFIC FLOW SHALL REQUIRE TRAFFIC CONTROL. REFER TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND THE WASHINGTON DEPARTMENT OF TRANSPORTATION (WSDOT) STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SAFEGUARDS, SAFETY DEVICES, PROTECTIVE EQUIPMENT, FLAGGERS, AND ANY OTHER NEEDED ACTIONS TO PROTECT THE LIFE, HEALTH AND SAFETY OF THE PUBLIC, AND TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK COVERED BY THE CONTRACTOR. ANY WORK WITHIN THE TRAVELED RIGHT-OF-WAY REQUIRES A RIGHT-OF-USE PERMIT TO BE REVIEWED PRIOR AND INSPECTED DURING CONSTRUCTION.

**MATERIAL SPECIFICATIONS:**

- A. ALL PIPE USE IN THE GRAVITY COLLECTION SYSTEM SHALL BE PVC CONFORMING TO ASTM D 3034, SDR-35**
- B. DRAINFIELD PIPE MATERIALS SHALL MEET ASTM D2241-05 (CLASS 200) OR ASTM D1785-06 (SCHEDULE 40 OR 80 PVC).**
- C. ALL PRESSURIZED PIPING USED IN THE PROPOSED OFF-SITE TRANSPORT SYSTEM SHALL BE PRESSURE TESTED AT 1.5 TIMES THE PROPOSED MAXIMUM OPERATING PRESSURE, OR 200 PSI (WHICHEVER IS GREATER) TO ENSURE THAT THE PIPING DOES NOT LEAK AND TO CERTIFY THE INTEGRITY OF THE PIPE MATERIAL**
- D. SEPTIC TANKS AND PUMP CHAMBERS**  
 1. TANK DESIGN SHALL BE IN ACCORDANCE WITH WAC 246-272B-06450.
- E. RISERS AND LIDS**  
 1. OUTLET RISERS SHALL BE RIBBED PVC AS MANUFACTURED BY ORENCO SYSTEMS, INC. OR ENGINEER-APPROVED EQUAL. THE MATERIAL SHALL BE PVC AS PER ASTM D-1784 AND TESTED IN ACCORDANCE WITH AASHTO M304M-89. RISERS SHALL BE AT LEAST 48 INCHES HIGH FOR THE SEPTIC TANK AND SHALL BE AT LEAST 56 INCHES HIGH FOR THE DOSING TANK AND SHALL HAVE A MINIMUM NOMINAL DIAMETER OF 30 INCHES AND SHALL BE EQUIPPED WITH THE FOLLOWING:  
 a. ELECTRICAL AND DISCHARGE GROMMETS: WHEN APPLICABLE, ORENCO SYSTEMS' EPDM GROMMETS SHALL BE INSTALLED BY THE MANUFACTURER FOR DISCHARGE PIPING, VENT PIPING, AND/OR THE ELECTRICAL CONDUIT TO ASSURE A WATER TIGHT SEAL. THE GROMMETS SHALL BE INSTALLED AT THE FACTORY BY THE MANUFACTURER OF THE ACCESS RISERS.  
 b. ADHESIVE: WHEN BONDING TO CONCRETE OR FIBERGLASS GROOVES, A TWO-PART EPOXY, ONE PINT REQUIRED PER 18-INCH OR 24-INCH DIAMETER RISER AND ONE ONE QUART REQUIRED PER 30-INCH DIAMETER RISER, MODEL ADHP10 OR ADHQ10 OR EQUAL SHALL BE USED. WHEN BONDING TO A FLANGED RISER TANK ADAPTER, EITHER A TWO-PART EPOXY, MODEL M4320 OR EQUAL, OR A SINGLE COMPONENT ADHESIVE MODEL ADH100 OR EQUAL SHALL BE USED.  
 2. ONE LID SHALL BE FURNISHED WITH EACH ACCESS RISER. LIDS SHALL BE ORENCO SYSTEMS, INC. MODEL FLD30G, EXCEPT FOR RISERS ABOVE BAFFLE WALLS OR PUMP WHICH REQUIRE FLD30GVO OR ENGINEER-APPROVED EQUAL, AS APPROPRIATE, FIBERGLASS WITH GREEN NON-SKID FINISH, AND PROVIDED WITH STAIN-LESS STEEL BOLTS AND WRENCH. THE RISER AND LID COMBINATION SHALL BE GASKETED AND ABLE TO SUPPORT A 2500-LB. WHEEL LOAD. RIGID CLOSED CELL FOAM INSULATION OF 2" OR 4" THICKNESS SHALL BE MECHANICALLY ATTACHED TO THE UNDERSIDE OF THE LID. ALL FASTENERS SHALL BE MADE OF CORROSION RESISTANT STAINLESS STEEL. THE INSULATION SHALL HAVE AN R-VALUE OF NO LESS THAN 10 PER 2" INCREMENT. ALL INSTALLATION PRACTICES SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
- F. DISTRIBUTION VALVE**  
 1. ORENCO SYSTEMS, INC. (OR APPROVED EQUAL) MODEL V6605A DISTRIBUTION VALVE, CONTAINED WITHIN A 30" RISER WITH LID MODEL FLD30G. PACK BOTTOM OF RISER WITH HDPE FOAM TO SEAL FROM PESTS.
- G. DISCHARGE HOSE AND VALVE ASSEMBLY**  
 1. ORENCO SYSTEMS, INC. (OR APPROVED EQUAL) MODEL HV200BCQ,  
 2-INCH DIAMETER, 64 PSI PVC BALL VALVE, 64 PSI PVC CHECK VALVE, PVC FLEX HOSE WITH WORKING PRESSURE RATING OF 64 PSI, AND SCHEDULE 40 PVC PIPE.
- H. FLOAT SWITCH ASSEMBLY**  
 1. ORENCO SYSTEMS, INC. (OR APPROVED EQUAL) MODEL MFP MOUNTED ON A PVC STEM ATTACHED TO THE FILTER CARTRIDGE. THE FLOATS MUST BE ADJUSTABLE AND MUST BE REMOVABLE WITHOUT REMOVING THE PUMP VAULT. THE HIGH AND LOW LEVEL ALARMS AND ON/OFF FUNCTIONS SHALL BE PRESET AS SHOWN IN THE ENGINEER'S PLANS. EACH FLOAT LEAD SHALL BE SECURED WITH A NYLON STRAIN RELIEF BUSHING AT THE SPLICE BOX. THE FLOATS SHALL BE UL OR CSA LISTED AND SHALL BE RATED FOR A MINIMUM OF 5.0A @ 120 VAC.
- I. HIGH HEAD EFFLUENT PUMP**  
 1. CONSTRUCTION SITE, ORENCO SYSTEMS, INC. MODEL PF3015 (3-EA.), 1-1/2 HP, 230V, SINGLE PHASE WITH 20' (OR APPROVED EQUAL) LONG EXTRA HEAVY DUTY (SO) ELECTRICAL CORD WITH GROUND. PUMP SHALL BE CAPABLE OF PROVIDING A FLOW OF 22 GPM AGAINST A HEAD OF 68 FEET. PUMP SHALL BE UL AND CSA LISTED AS AN EFFLUENT PUMP. PUMP SHALL BE PROVIDED WITH A NON-PRORATED FIVE-YEAR WARRANTY.
- J. ELECTRICAL SPLICE BOX**  
 1. ORENCO SYSTEMS, INC. (OR APPROVED EQUAL), UL APPROVED FOR WET LOCATIONS, EQUIPPED WITH ELECTRICAL, ALSO INCLUDED SHALL BE UL LISTED WATERPROOF BUTT SPLICE CONNECTORS.
- K. CONTROLS AND ALARMS**  
 1. CONTROLS AND ALARMS SHALL BE LISTED PER UL 698A, PANELS SHALL BE REPAIRABLE IN THE FIELD WITHOUT THE USE OF SOLDERING IRONS OR SUBSTANTIAL DISASSEMBLY. PANEL SHALL BE TRIPLEX SYSTEM WITH ALTERNATING PUMP CONTROLS AS MANUFACTURED BY ORENCO SYSTEMS (OR APPROVED EQUAL) AND SHALL INCLUDE A PROGRAMMABLE DOSE TIMER WITH HOUR METER AND EVENT COUNTER. ALL MECHANICAL & ELECTRICAL COMPONENTS SHALL BE RATED FOR WASTEWATER APPLICATIONS. ELECTRICAL COMPONENTS AND WIRING MUST COMPLY WITH WAC 296-46B-501. CONTROL PANEL ENCLOSURE MUST BE SECURE FROM TAMPERING AND WEATHER RESISTANT. COMPONENTS MUST HAVE QUICK DISCONNECTS FOR PUMP REMOVAL.
- L. INSTALLATION**  
 ALL PUMPING SYSTEM COMPONENTS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, THE ENGINEER'S PLANS, AND ALL STATE AND LOCAL REGULATIONS.
- M. BEDDING MATERIAL**  
 BEDDING MATERIAL SHALL BE PRIMARILY SAND AND GRAVEL HAVING A PLASTICITY INDEX LESS THAN 6. GRADATION SHALL LIMIT THE AMOUNT PASSING THE NO. 200 SIEVE TO 10% MAXIMUM. BEDDING MATERIAL MUST COMPLY WITH THE GRADING REQUIREMENTS FOR THE SIEVE SIZES SHOWN IN THE TABLE BELOW OR AS APPROVED BY THE MANUFACTURER:

SIEVE SIZE	PERCENT PASSING
1-1/2"	99-100
1"	75-100
5/8"	50-100
NO. 4	20-80
NO. 40	3-4
NO. 200	10 MAX
SAND EQUIVALENT	35 MIN

COMPACTION SHALL BE 95% MODIFIED PROCTOR OR PER MANUFACTURER'S RECOMMENDATION.

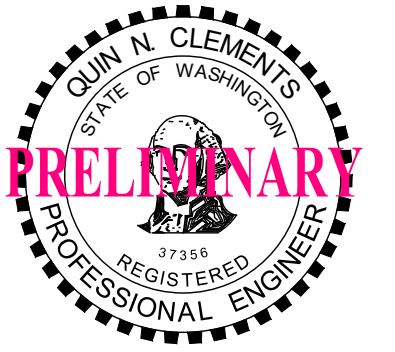
**N. PRIMARY BACKFILL**  
 PRIMARY BACKFILL MUST BE CLEAN, FREE FLOWING, AND FREE OF DIRT, SAND, LARGE ROCKS, ROOTS, ORGANIC MATERIALS, DEBRIS, ICE AND SNOW AND CONSISTING OF EITHER ROUNDED OR CRUSHED STONE. AGGREGATE MATERIAL MUST COMPLY WITH THE GRADING REQUIREMENTS FOR THE SIEVE SIZES SHOWN IN THE TABLES BELOW OR AS APPROVED BY THE MANUFACTURER:

ROUNDED STONE			
ASTM C 33 SIZE #	#6 STONE	#67 STONE	#7 STONE
1" (25 MM)	100	100	-
3/4" (19 MM)	90-100	90-100	100
1/2" (12.5 MM)	10-55	-	90-100
3/8" (9.5 MM)	0-15	20-55	40-70
NO. 4 .187" (4.75 MM)	0-5	0-10	0-15
NO. 8 .094" (2.36 MM)	-	0-5	0-5

CRUSHED STONE		
ASTM C 33 SIZE #	#7 STONE	#8 STONE
1" (25 MM)	-	-
3/4" (19 MM)	100	-
1/2" (12.5 MM)	90-100	100
3/8" (9.5 MM)	40-70	85-100
NO. 4 .187" (4.75 MM)	0-15	10-30
NO. 8 .094" (2.36 MM)	0-5	0-10

COMPACTION SHALL BE 95% MODIFIED PROCTOR OR PER MANUFACTURER'S RECOMMENDATION.

**O. MONITORING PORTS**  
 PORTS SHALL BE 4-IN DIAMETER, HAVE A CAP OR COVER, ACCESSIBLE AT GRADE, AND ANCHORED.



**DCG WATERSHED**  
 P.O. Box 1132  
 Freeland, WA 98249  
 P: 360.331.4131  
 www.dcgwatershed.com  
 FEDERAL HWY 100/GRAND MOUNT VERNON SEATTLE (BORNEO) ISLAND

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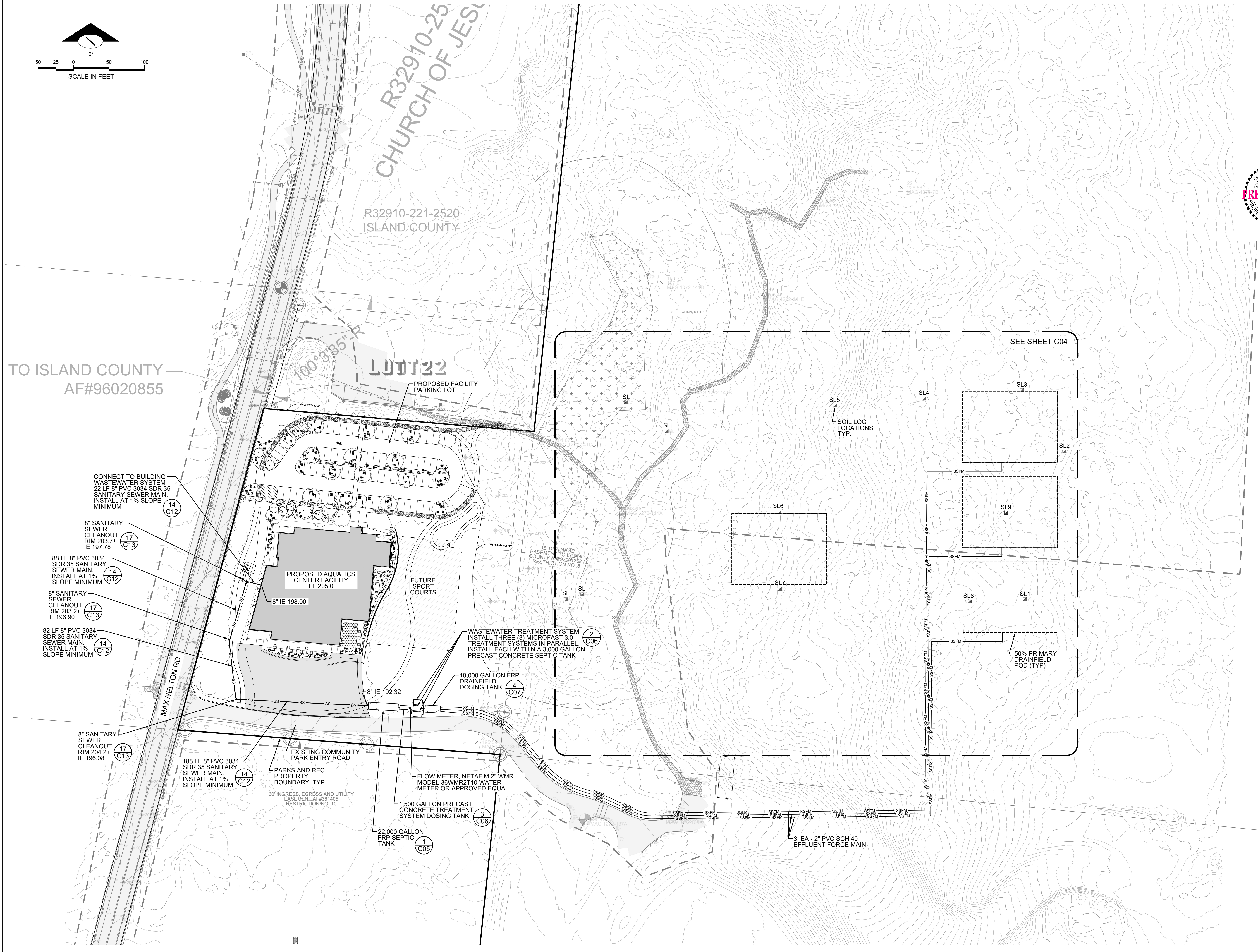
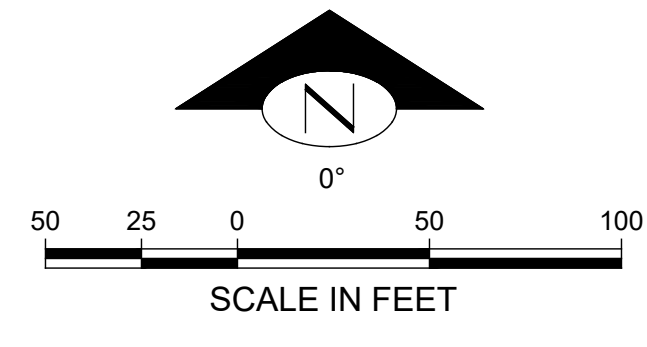
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**arc**  
 architecture resource collaborative  
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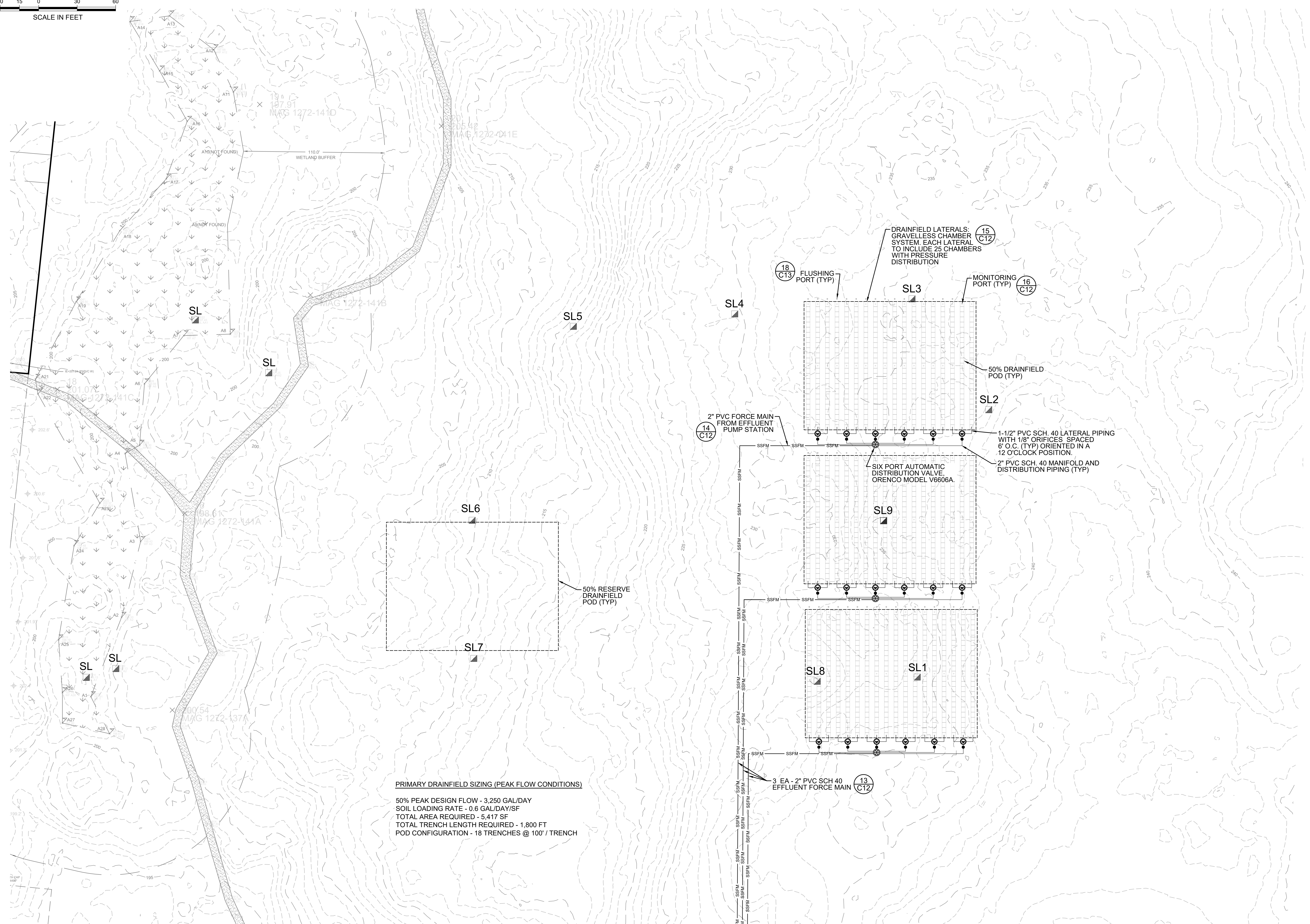
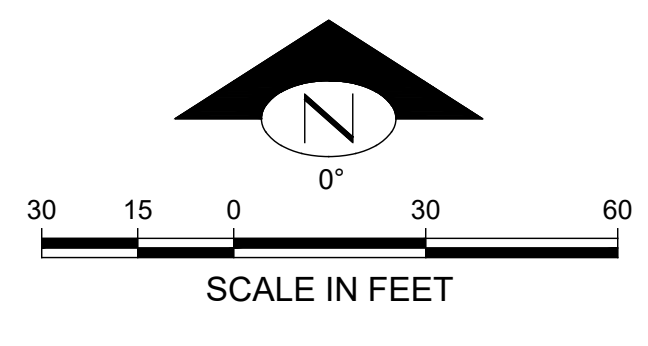
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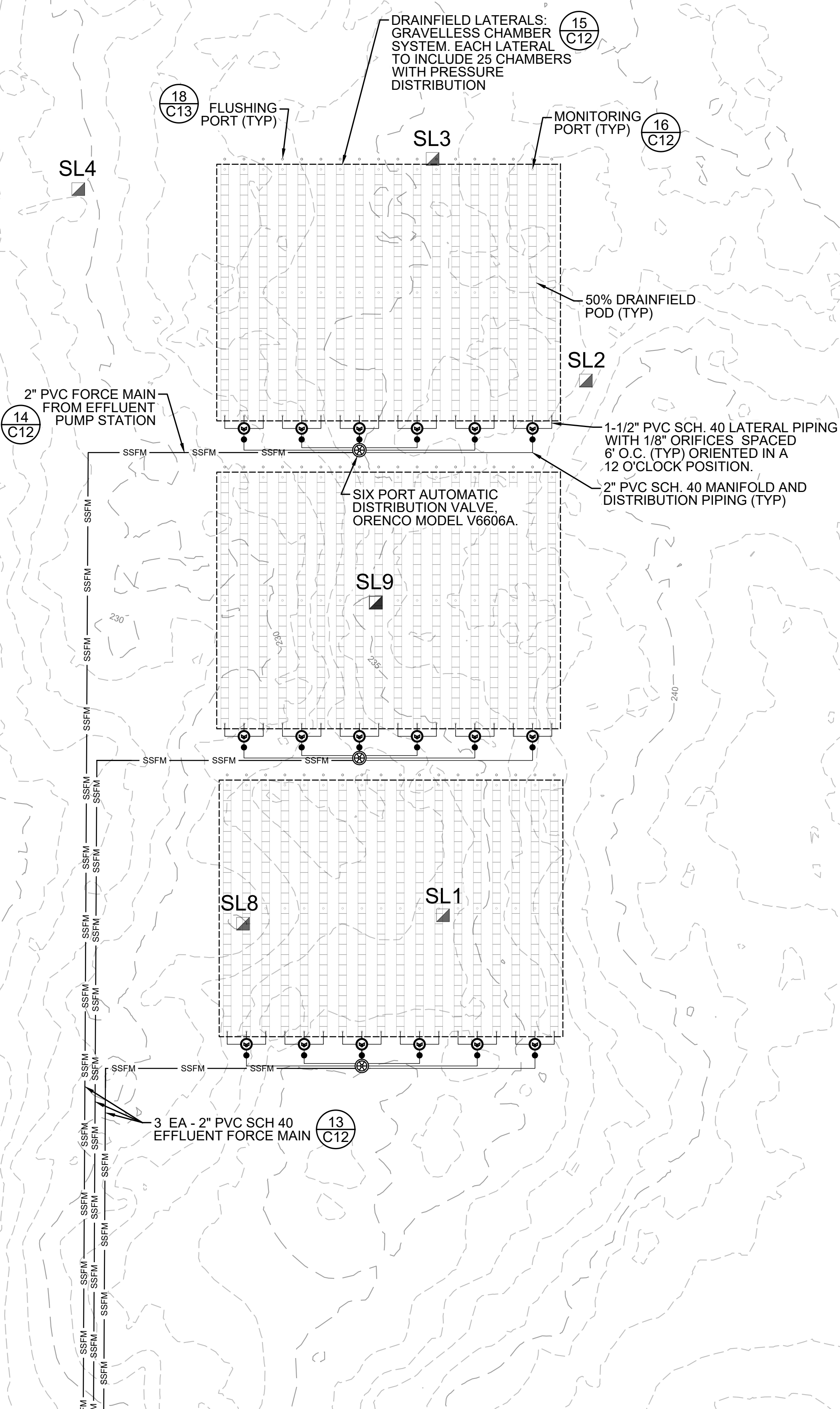
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**PRIMARY DRAINFIELD SIZING (PEAK FLOW CONDITIONS)**  
 50% PEAK DESIGN FLOW - 3,250 GAL/DAY  
 SOIL LOADING RATE - 0.6 GAL/DAY/SF  
 TOTAL AREA REQUIRED - 5,417 SF  
 TOTAL TRENCH LENGTH REQUIRED - 1,800 FT  
 POD CONFIGURATION - 18 TRENCHES @ 100' / TRENCH



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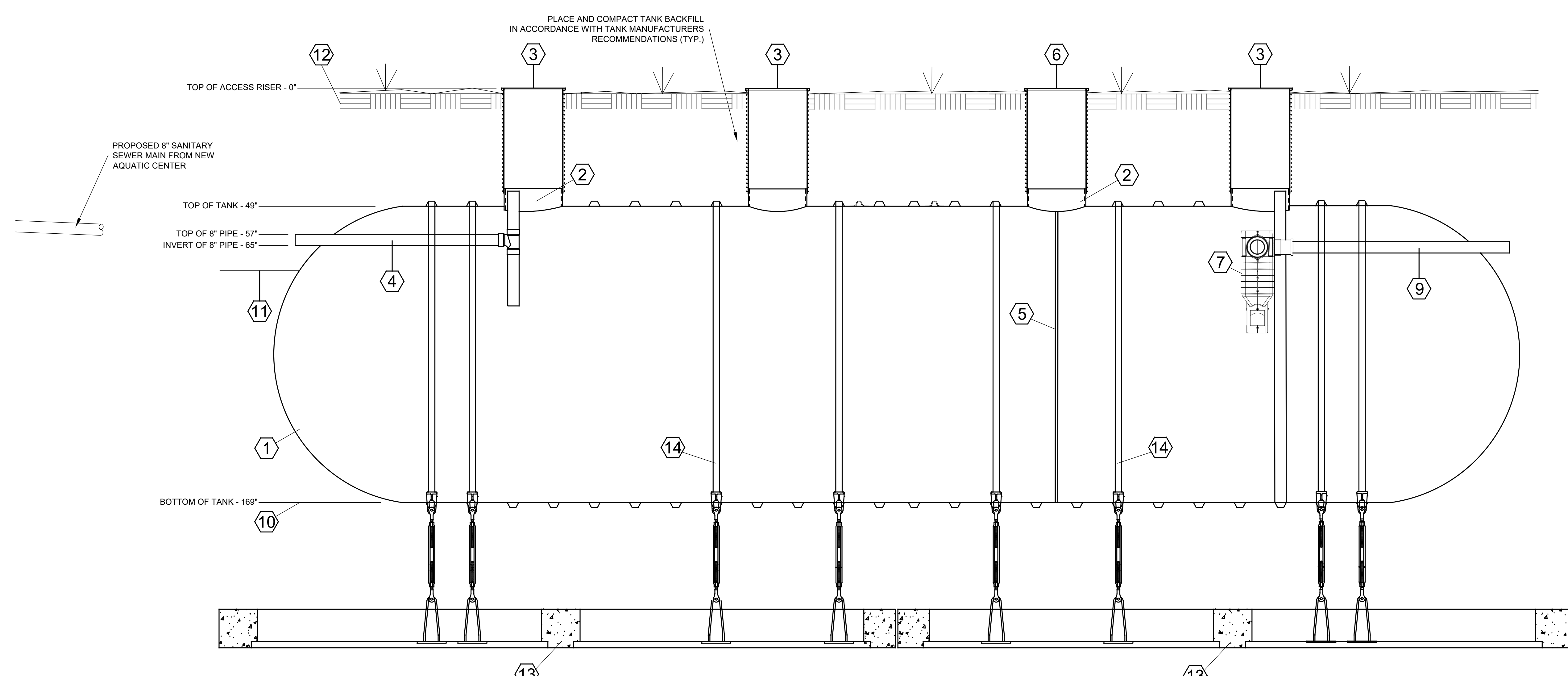
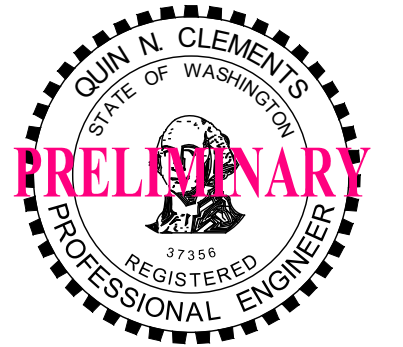
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1	22,000 GALLON XERXES SINGLE WALL FRP TANK (10-FT DIAMETER) - 2 COMPARTMENT AS SUPPLIED BY FETEX (509) 965-8437 OR APPROVED EQUAL, TANK MUST BE WATER-TIGHT TESTED
2	30-IN FRP OPENING (4 TOTAL)
3	30-IN RIBBED PVC RISER W/ FRP LID (3 TOTAL)
4	8-IN SCH.40 PVC INLET PIPING W/SANITARY TEE
5	FULL HEIGHT BAFFLE WALL PARTITION WITH CROSS OVERHOLES, 3 EACH AT 60° CC, 1 @ TOP OF TANK
6	30-IN RIBBED PVC RISER W/ FRP VENTED LID AND CARBON FILTER
7	COMMERCIAL GRADE EFFLUENT FILTER - POLYLOK MODEL PL-525 OR EQUAL
8	NOT USED
9	4-IN SCH.40 PVC OUTLET PIPING
10	INSTALL BEDDING MATERIAL PER MANUFACTURER
11	INSTALL PRIMARY BEDDING TO 75% OF TANK HEIGHT PER MANUFACTURER
12	INSTALL NATIVE MATERIAL FROM PRIMARY BEDDING TO GRADE
13	22-FT PRECAST CONCRETE DEADMAN (2 EACH SIDE - 4 TOTAL)
14	HOLD DOWN STRAP AND TURNBUCKLE ASSEMBLY (8 EACH SIDE - 4 PER DEADMAN)

SEPTIC TANK SIZING  
 STORAGE REQUIREMENT - 19,500 GALLONS  
 LIQUID VOLUME PROVIDED BELOW OUTLET - 20,169 GALLONS

**PRIMARY SEPTIC TANK DETAIL**  
 NTS

1  
 C03

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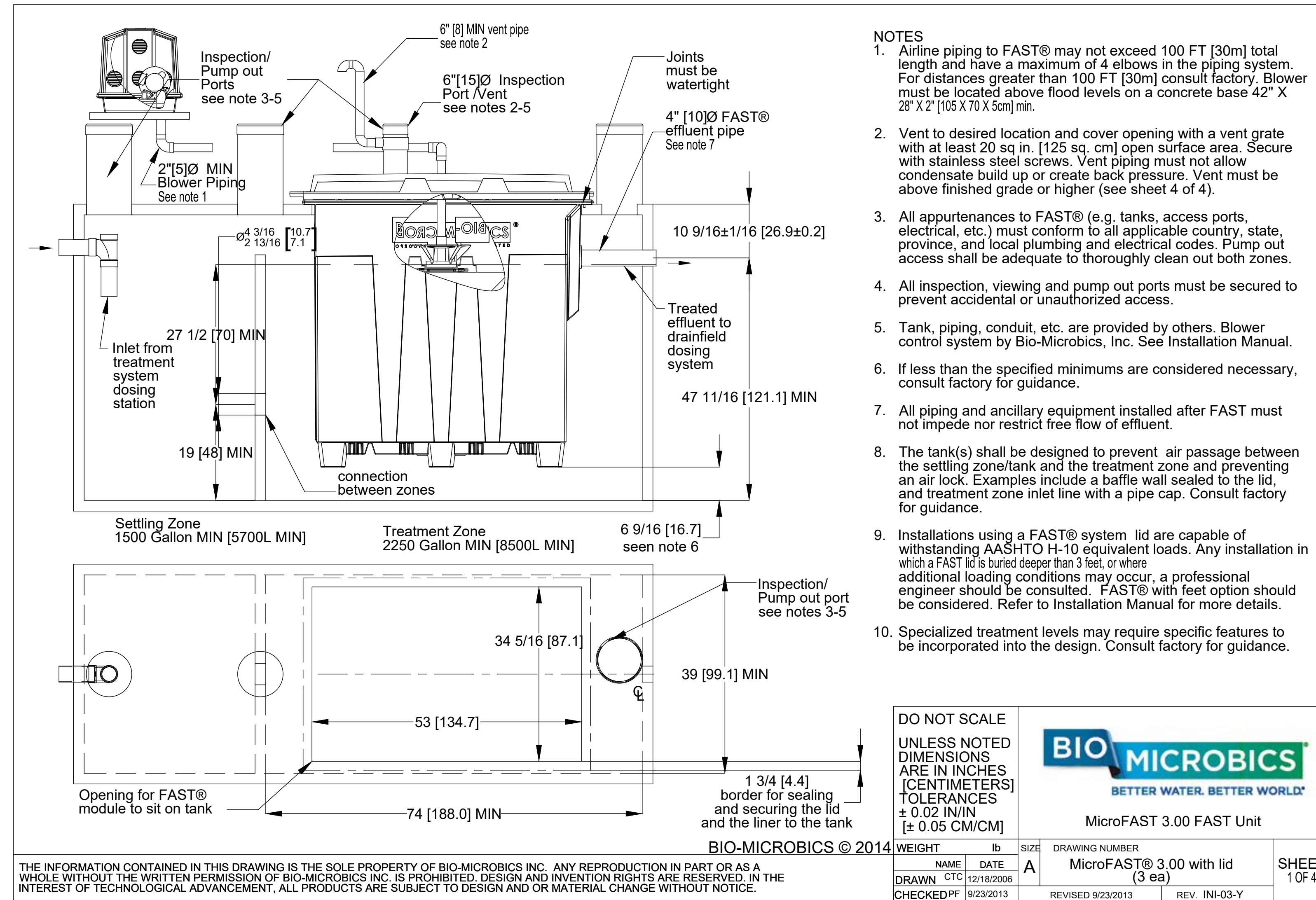
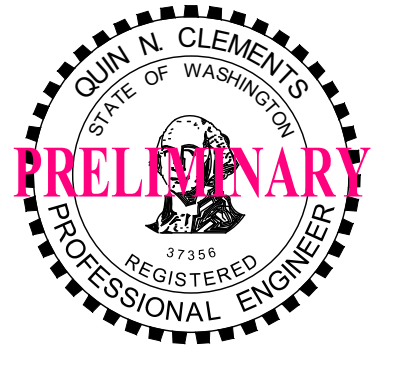
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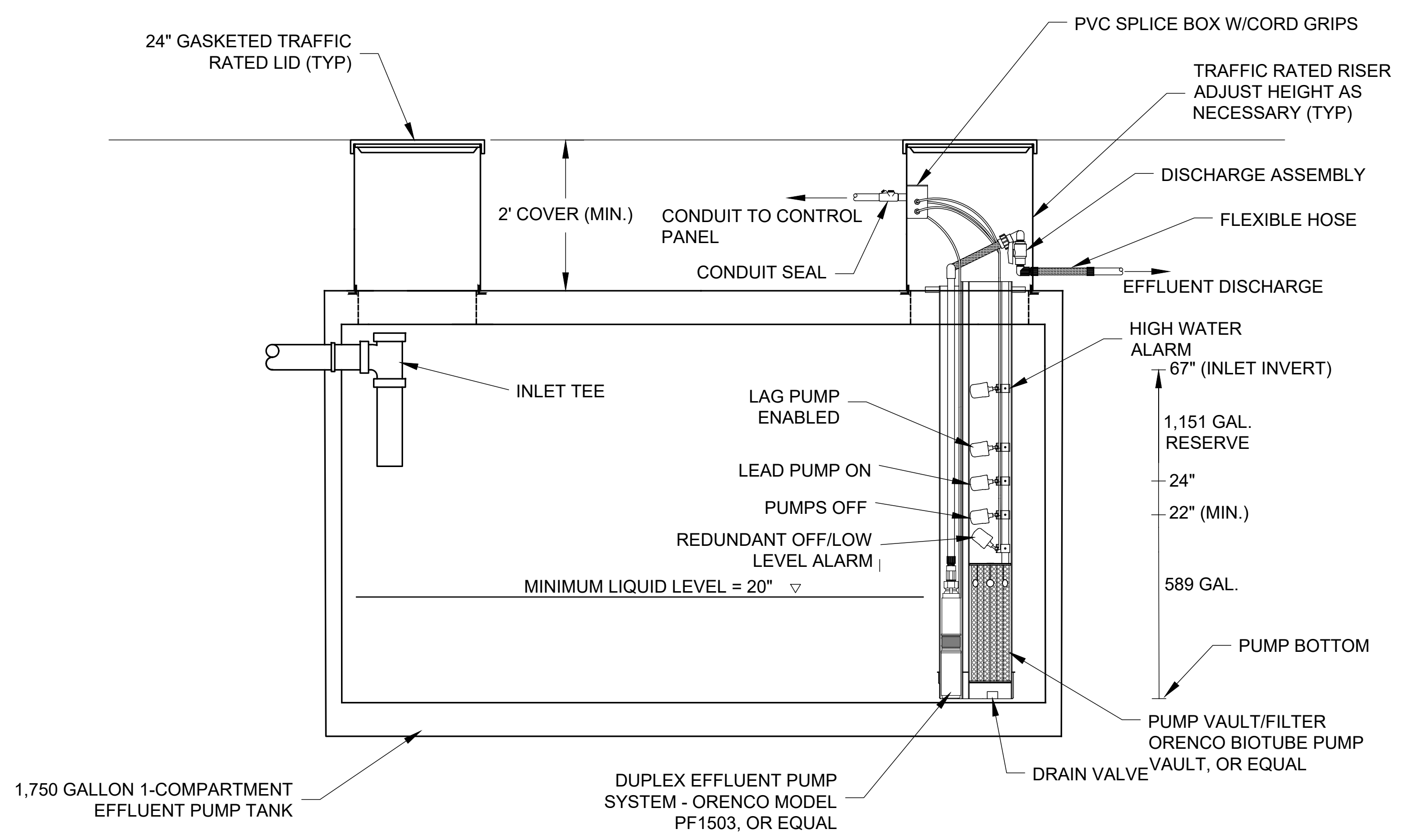
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(3 EACH)  
**BIOMICROBICS MICROFAST 3.0 WASTEWATER TREATMENT UNIT DETAIL**  
NTS  
2  
C03



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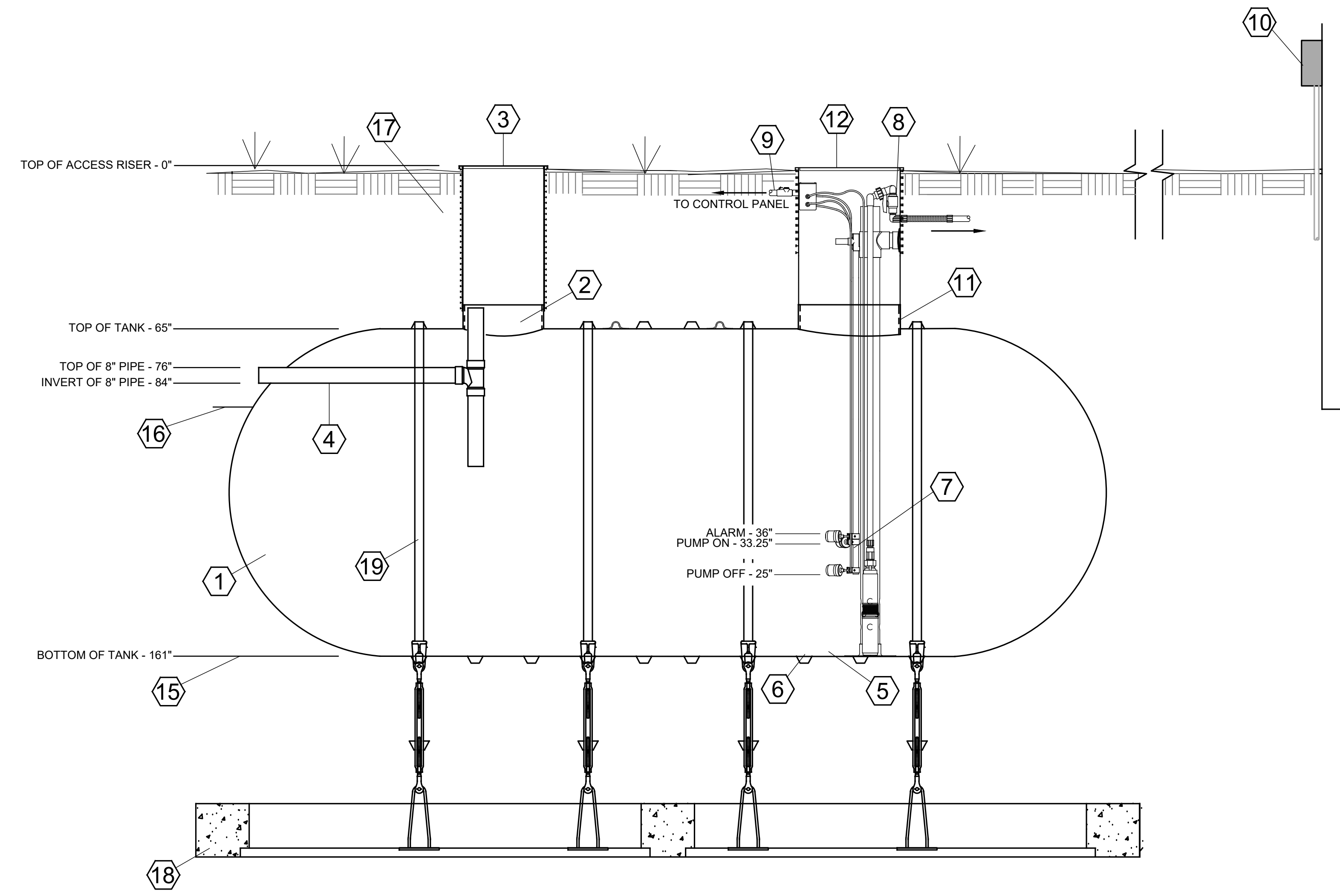
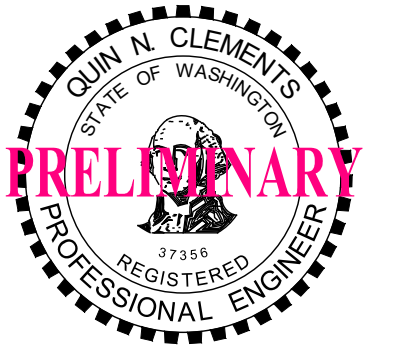
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1	10,000 GALLON XERXES SINGLE WALL FRP TANK (10-FT DIAMETER) - AS SUPPLIED BY FEXTEX (509) 965-8437 OR APPROVED EQUAL. TANK MUST BE WATER-TIGHT TESTED
2	30-IN FRP OPENING (3 TOTAL)
3	30-IN RIBBED PVC RISER W/ FRP LID (3 TOTAL)
4	4-IN SCH.40 PVC INLET PIPING W/SANITARY TEE
5	FLOW INDUCER & TOWER (TRIPLEX), ORENCO FITD-T102 OR APPROVED EQUAL, MUST HAVE A BASE ORENCO VB1806-FRP OR EQUAL.
6	ORENCO MODEL PF3015 EFFLUENT PUMP (3-EA) OR APPROVED EQUAL, MINIMUM FLOW PER PUMP - 22 GPM, TDH - 68'
7	LEVEL CONTROL FLOAT ASSEMBLY OR APPROVED EQUAL
8	DISCHARGE ASSEMBLY W/ FLEXIBLE HOSE
9	PVC SPLICE BOX W/ CORD GRIPS
10	ORENCO TRIPLEX MVP CONTROL PANEL OR APPROVED EQUAL. MOUNT ON EXISTING CLUB STRUCTURE SOUTHEAST OF TANK SITE
11	36-IN FRP OPENING (1 TOTAL)
12	36-IN RIBBED PVC RISER W/ FRP VENTED LID AND CARBON FILTER
13	OLDCASTLE PRECAST UTILITY VAULT MODEL 233-LA OR EQUAL: VAULT NO. 233-BL AND COVER NO. 23-2436P
14	NOT USED
15	INSTALL BEDDING MATERIAL PER MANUFACTURER.
16	INSTALL PRIMARY BEDDING TO 75% OF TANK HEIGHT PER MANUFACTURER.
17	INSTALL NATIVE MATERIAL FROM PRIMARY BEDDING TO GRADE
18	22-FT PRECAST CONCRETE DEADMAN (1 EACH SIDE - 2 TOTAL)
19	HOLD DOWN STRAP AND TURNBUCKLE ASSEMBLY (4 EACH SIDE - 4 PER DEADMAN)

**DOSING TANK SIZING**

REQUIRED EMERGENCY STORAGE - 6,500 GALLONS  
 DOSING VOLUME - 60 GALLONS  
 AIR SPACE/INLET DEAD STORAGE - 795 GALLONS  
 PUMP SUBMERSION DEAD STORAGE - 1,475 GALLONS  
 TANK SIZE - 10,000 GALLONS  
 AVAILABLE SLUDGE STORAGE - GALLONS

**DAILY DOSING CALCULATIONS**

DAILY PEAK VOLUME - 6,500 GALLONS  
 DOSING VOLUME - 60 GALLONS  
 DOSING DURATION - 2 MINUTES, 42 SECONDS  
 NUMBER OF DOSES - 108 PER DAY (6 PER POD)

**DRAINFIELD SYSTEM  
 DOSING TANK DETAIL**  
 NTS 4  
C03

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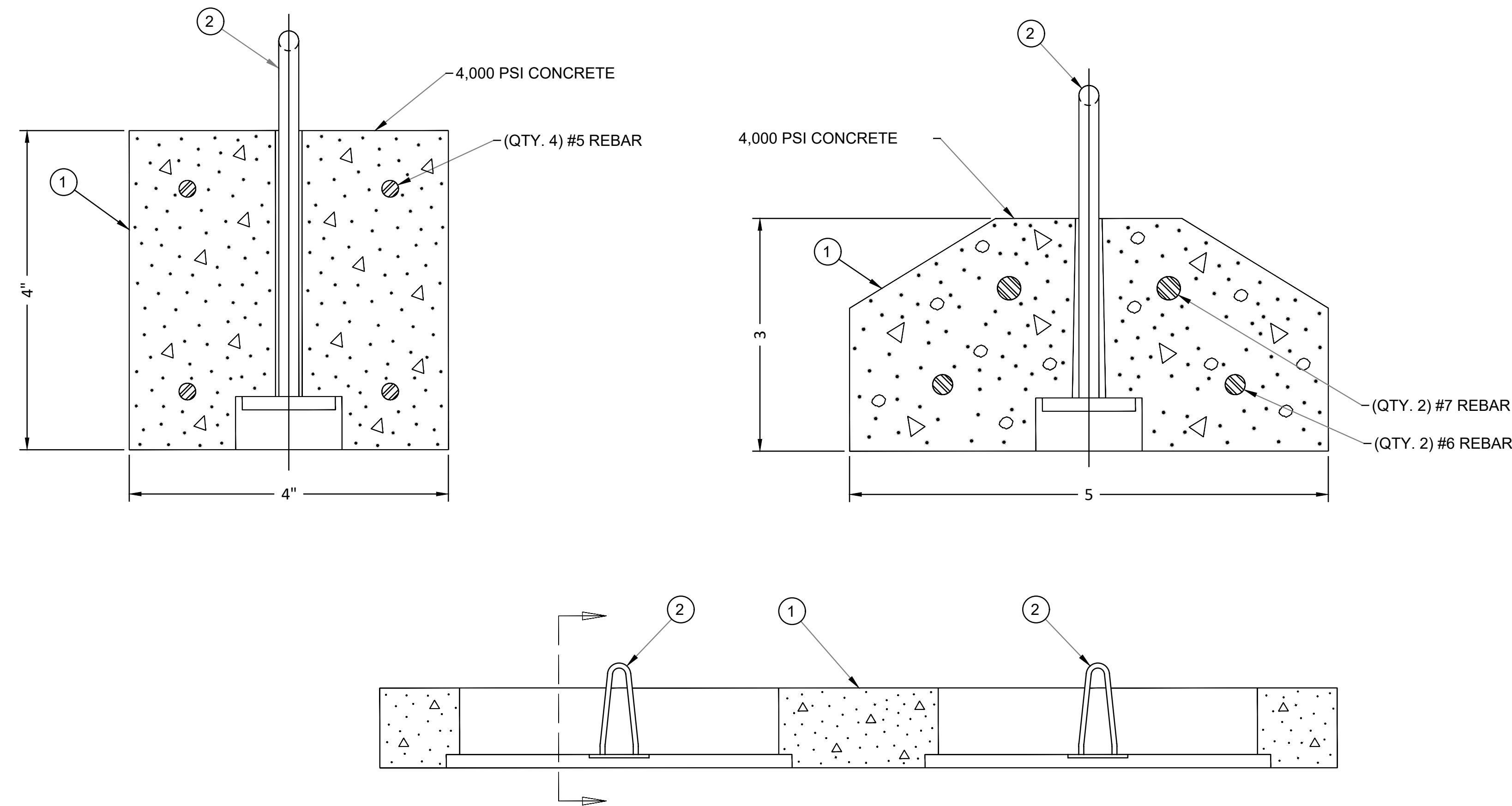
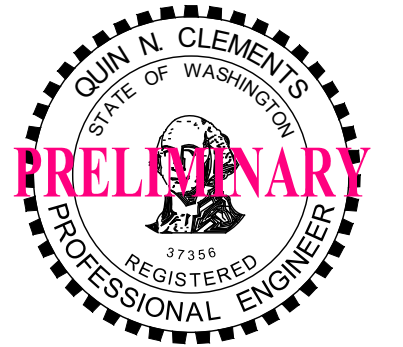
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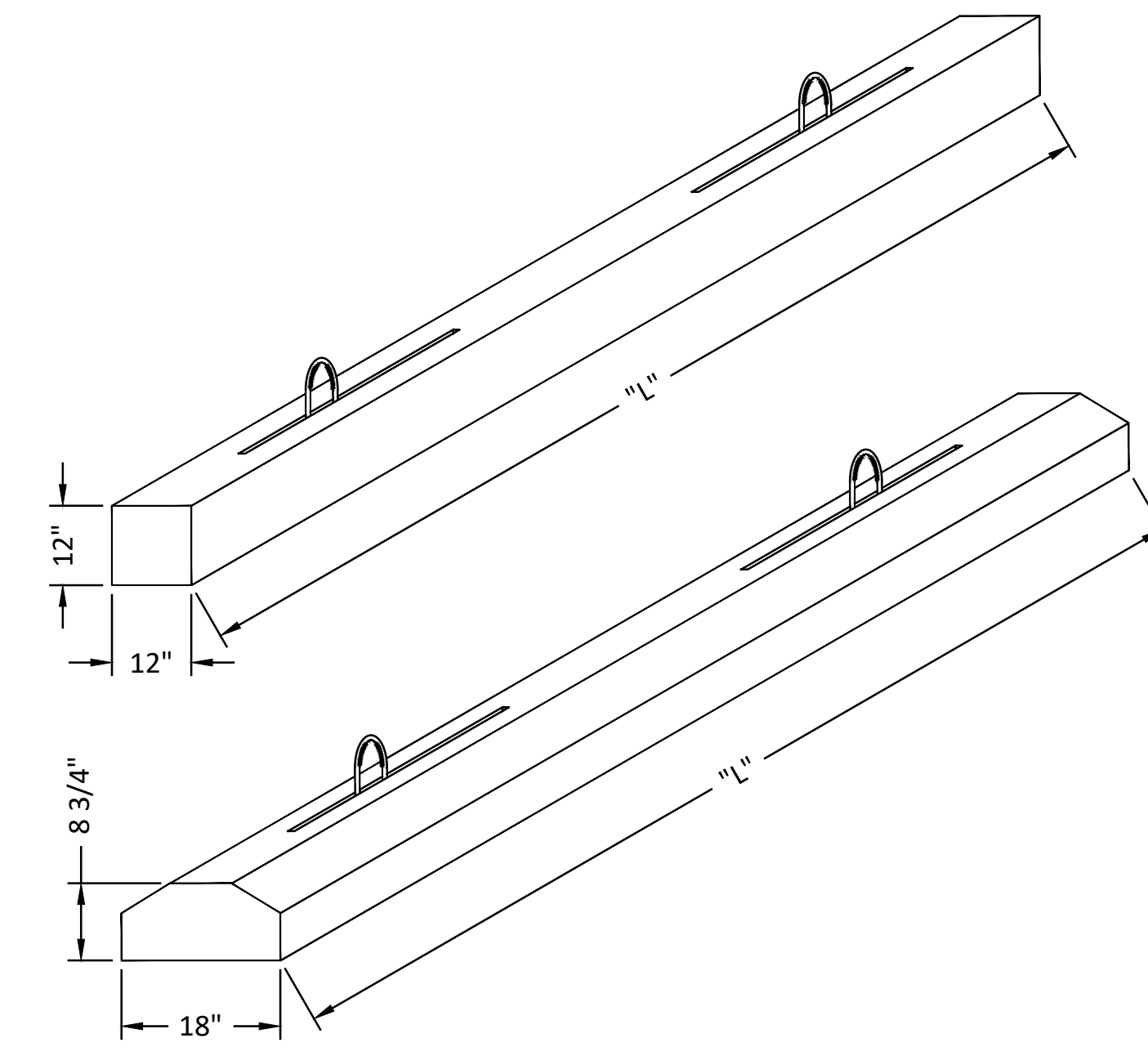
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1	2	2	2			4	4	2				4	2		EA	DEADMAN, 12"x12"x12'
1			2					2	4	4		2	4	6	EA	DEADMAN, 12"x12"x16'
1				2						4					EA	DEADMAN, 12"x12"x18'
2	4	4	4	4	4	8	8	8	8	8	8	8	12	12	EA	GALVANIZED ANCHOR POINT
	2,000	3,000	4,000	5,000	6,000	7,000	8,000	9,000	10,000	11,000	12,000	13,000	14,000	15,000		8' TANKS

ITEM	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	UNIT	DESCRIPTION
1					4	4	4	4		4					EA	DEADMAN, 8 3/4"x18"x14'
1									4	2	6	2	8		EA	DEADMAN, 8 3/4"x18"x18'
1	2	2	2						4				4		EA	DEADMAN, 8 3/4"x18"x22'
2	8	8	8	8	8	8	8	12	16	16	20	24	28		EA	GALVANIZED ANCHOR POINT
	10,000	11,000	12,000	13,000	14,000	15,000	20,000	22,000	25,000	30,000	35,000	40,000				10' TANKS

ITEM	QTY	QTY	QTY	UNIT	DESCRIPTION
1	2	2		EA	DEADMAN, 12"x12"x12'
1			2	EA	DEADMAN, 12"x12"x16'
2	4	4	4	EA	GALVANIZED ANCHOR POINT
	600	1,000	1,500		4' TANKS

ITEM	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	UNIT	DESCRIPTION
1	2	2			4				EA	DEADMAN, 12"x12"x12'
1			2				4		EA	DEADMAN, 12"x12"x16'
1				2				4	EA	DEADMAN, 12"x12"x18'
2	4	4	4	4	4	8	8	8	EA	GALVANIZED ANCHOR POINT
	1,500	2,000	3,000	4,000	5,000	6,000	8,000			6' TANKS

**PRECAST ANCHOR POINT ASSEMBLY**  
 NTS 5  
C07



**XERXES PRECAST DEADMEN**

- XERXES DEADMEN ARE ENGINEERED AND DESIGNED TO BE USED WITH XERXES TANKS.
- IN MULTIPLE TANK INSTALLATIONS, EACH TANK REQUIRES ITS OWN SET OF DEADMEN.
- FOR CAST IN PLACE OR DEADMAN CONSTRUCTED OFF SITE, REFER TO XERXES INSTALLATION MANUAL AND OPERATING GUIDELINES FOR PROPER SIZING AND ANCHOR POINT SPECIFICATIONS.

XERXES DEADMAN			
TANK SIZE GALLONS	QTY	"L"	APPROX. WEIGHT EACH
4'-600	2	12'	1,800 LBS
4'-1,000	2	12'	1,800 LBS
4'-1,500	2	16'	2,400 LBS
6'-1,500	2	12'	1,800 LBS
6'-2,000	2	12'	1,800 LBS
6'-3,000	2	16'	2,400 LBS
6'-4,000	2	18'	2,700 LBS
6'-5,000	4	12'	1,800 LBS
6'-6,000	4	16'	2,400 LBS
6'-8,000	4	18'	2,700 LBS
8'-2,000	2	12'	1,800 LBS
8'-3,000	2	12'	1,800 LBS
8'-4,000	2	12'	1,800 LBS
8'-5,000	2	16'	2,400 LBS
8'-6,000	2	18'	2,700 LBS
8'-7,000	4	12'	1,800 LBS
8'-8,000	4	12'	1,800 LBS
8'-9,000	2	12'	1,800 LBS
	2	16'	2,400 LBS

8'-10,000	4	16'	2,400 LBS
8'-11,000	4	16'	2,700 LBS
8'-12,000	4	18'	2,700 LBS
8'-13,000	4	12'	1,800 LBS
	2	16'	2,400 LBS
8'-14,000	2	12'	1,800 LBS
8'-15,000	4	16'	2,400 LBS
8'-15,000	6	16'	2,400 LBS
10'-10,000	2	22'	3,000 LBS
10'-11,000	2	22'	3,000 LBS
10'-12,000	2	22'	3,000 LBS
10'-13,000	4	14'	1,900 LBS
10'-14,000	4	14'	1,900 LBS
10'-15,000	4	14'	1,900 LBS
10'-20,000	4	18'	2,400 LBS
10'-22,000	4	22'	3,000 LBS
10'-25,000	4	14'	1,900 LBS
10'-25,000	2	18'	2,400 LBS
10'-30,000	6	18'	2,400 LBS
10'-35,000	2	18'	2,400 LBS
10'-35,000	4	22'	3,000 LBS
10'-40,000	8	18'	2,400 LBS

**PRECAST DEADMAN**  
 NTS 6  
C07

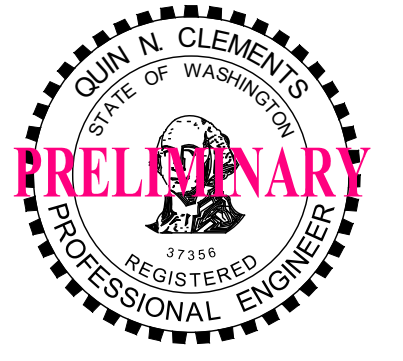
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 DEVELOPMENT**

ISSUE DATE: DECEMBER 01, 2023

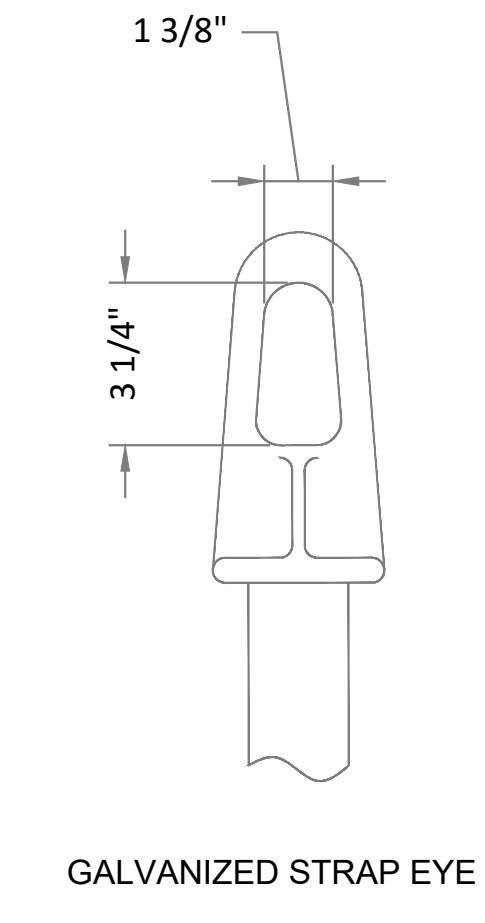
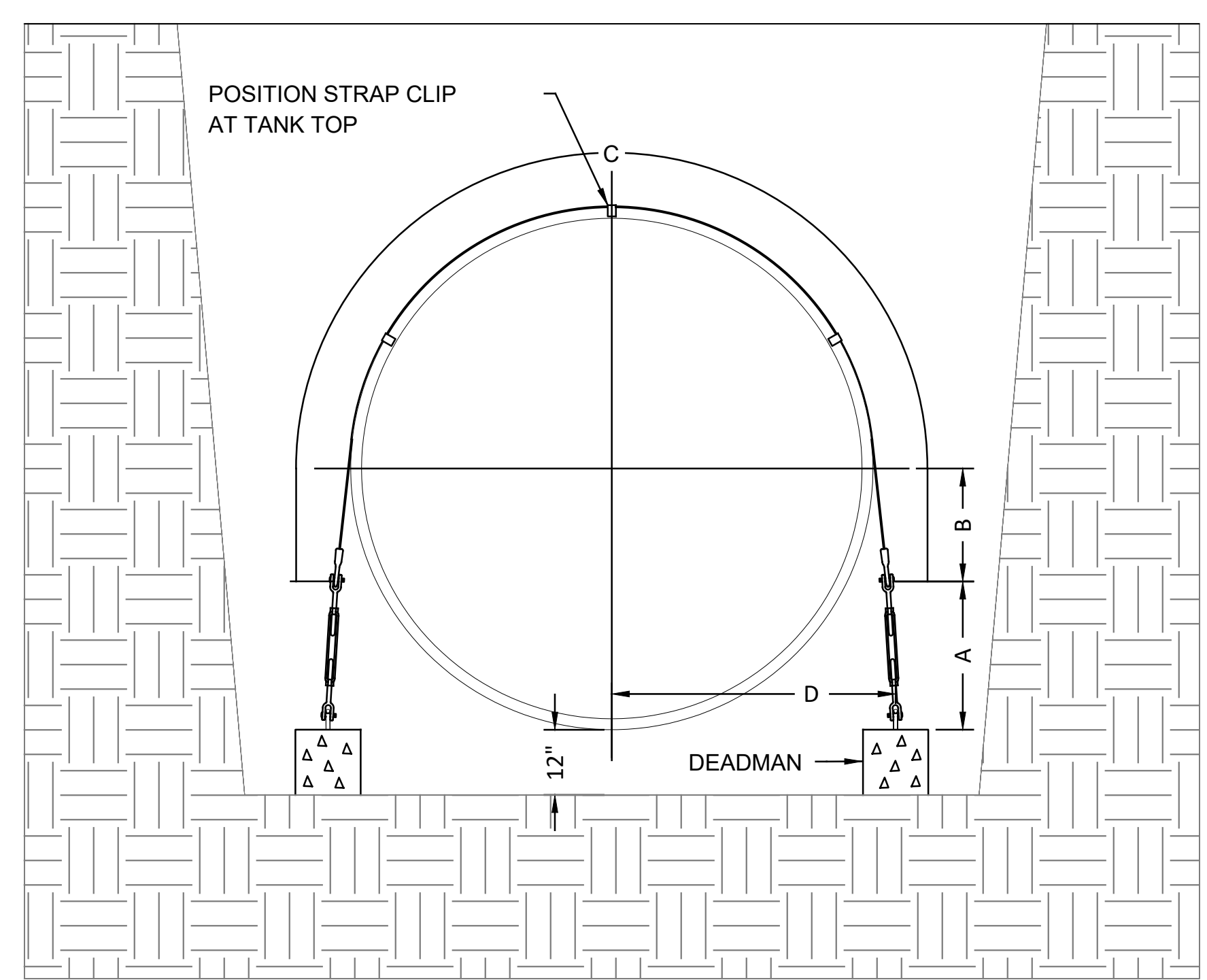
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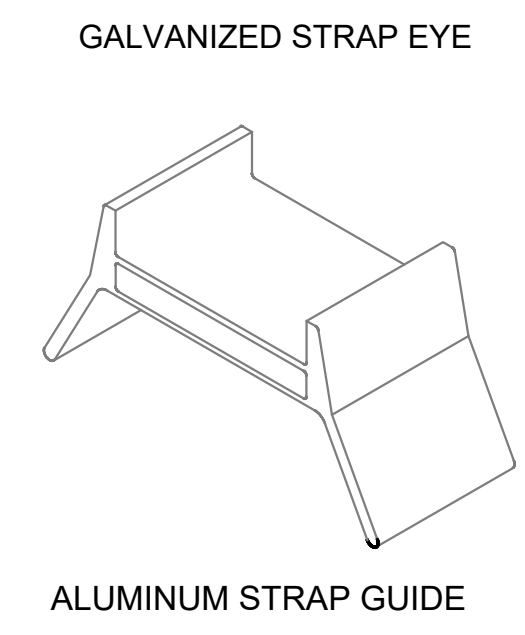
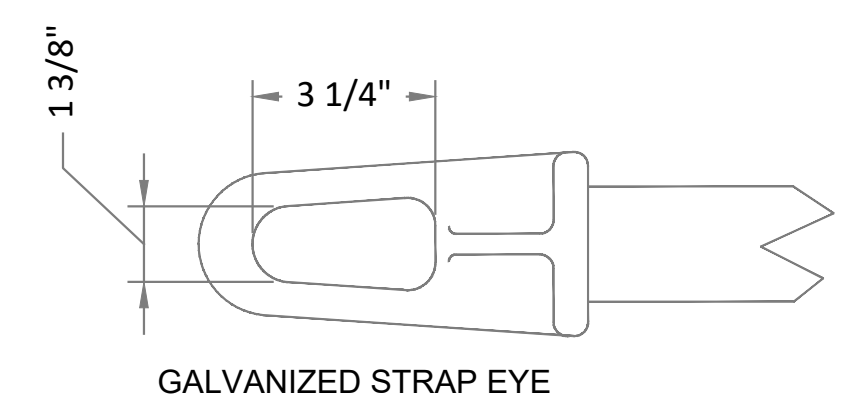
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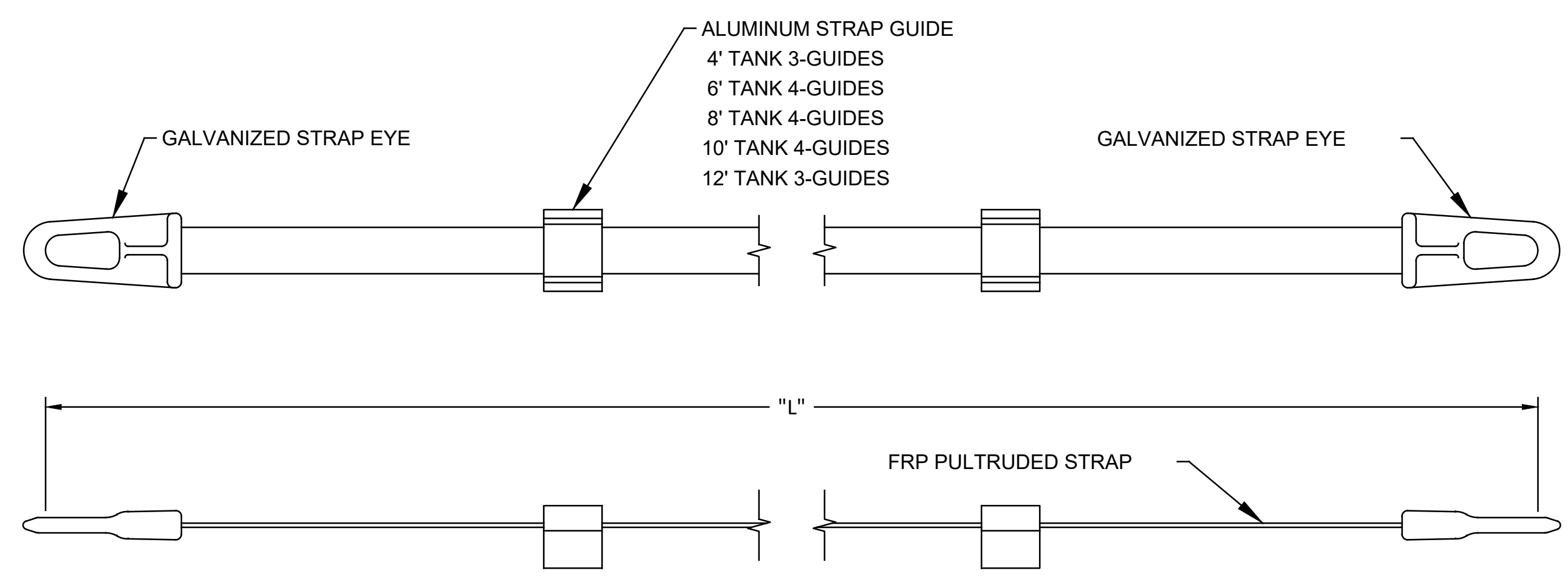


TANK DIA.	ANCHORING DIMENSIONS				
	"A"	"B"	"C"	"D" MIN.	"D" MAX.
4"	18"	12"	8'-4-1/4"	27"	30"
6"	23"	13"	12'-1"	42"	48"
8"	31"	15"	15'-1"	52"	58"
10"	45"	15"	18'-8-3/4"	69"	75"
12"	50"	23"	22'-6-3/4"	87"	93"

**HOLD DOWN STRAP  
 DIMENSIONS**  
 NTS 7  
C07



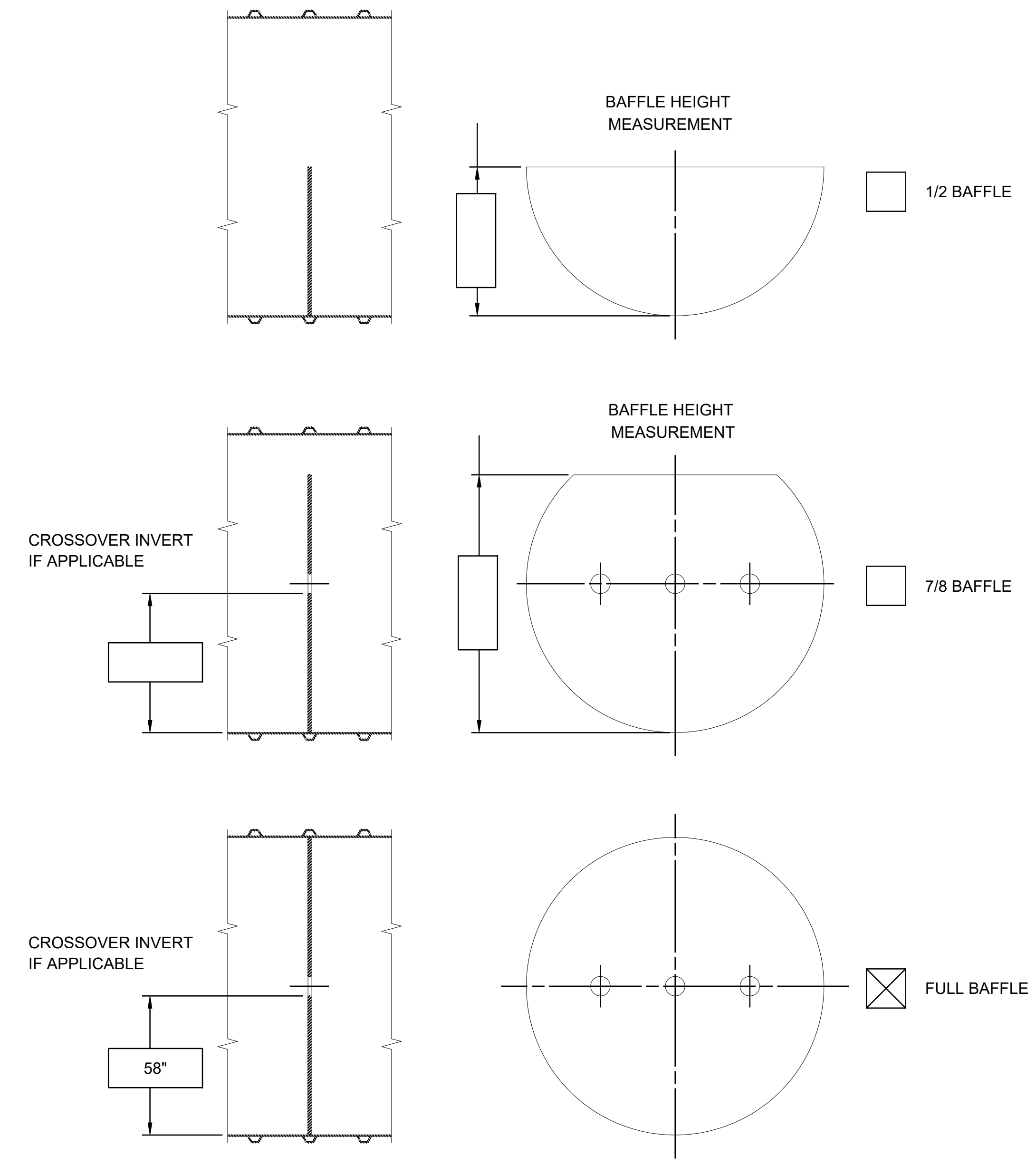
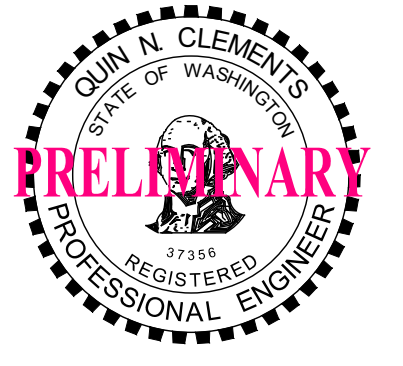
HOLD-DOWN STRAPS	
TANK SIZE	STRAP LENGTH "L"
4' DIA.	8'-4 1/4"
6' DIA.	12'-1"
8' DIA.	15'-1"
10' DIA.	18'-8 3/4"
12' DIA.	22'-6 3/4"



NOTE: STRAPS ARE RATED AT MINIMUM 25,000 LBS.

**HOLD DOUBLE D-LUG  
 STRAP DOWN STRAPS**  
 NTS 8  
C07

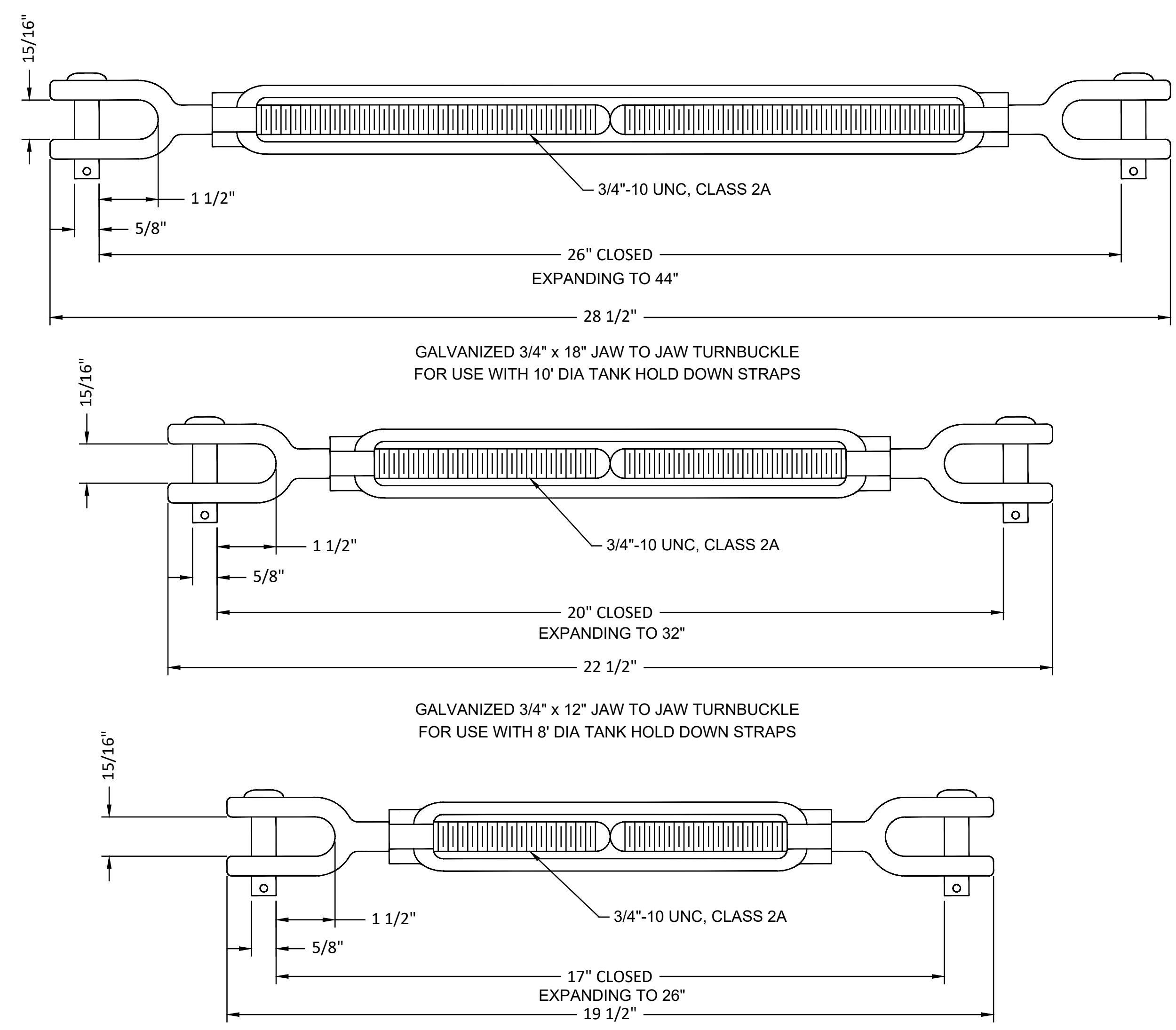




- BAFFLE CROSSOVER WILL BE: (PLEASE CHECK ONE)
- FLOW-THROUGH HOLES
  - CROSSOVER PIPING
- IF USING FLOW-THROUGH HOLES:
- 4" DIAMETER OF HOLE(S)
  - 3" QUANTITY OF HOLE(S)
- BAFFLE MUST PROVIDE A SOLID BARRIER FOR LIQUIDS/SOLIDS SEPARATION
- YES
  - NO

**BAFFLE PARTITION WALLS DETAIL**  
 NTS 9  
C07

**DETAILS**  
 NTS



**JAW TO JAW TURNBUCKLES DETAIL**  
 NTS 10  
C07

**S WHIDBEY PARKS & REC AQUATIC REC CENTER**  
 PID 812720 MAXWELTON RD  
 LANGLEY, WA 98260



**100% DESIGN DEVELOPMENT**

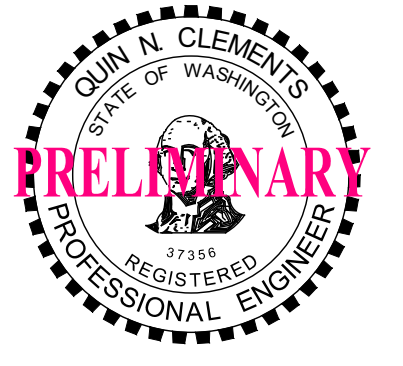
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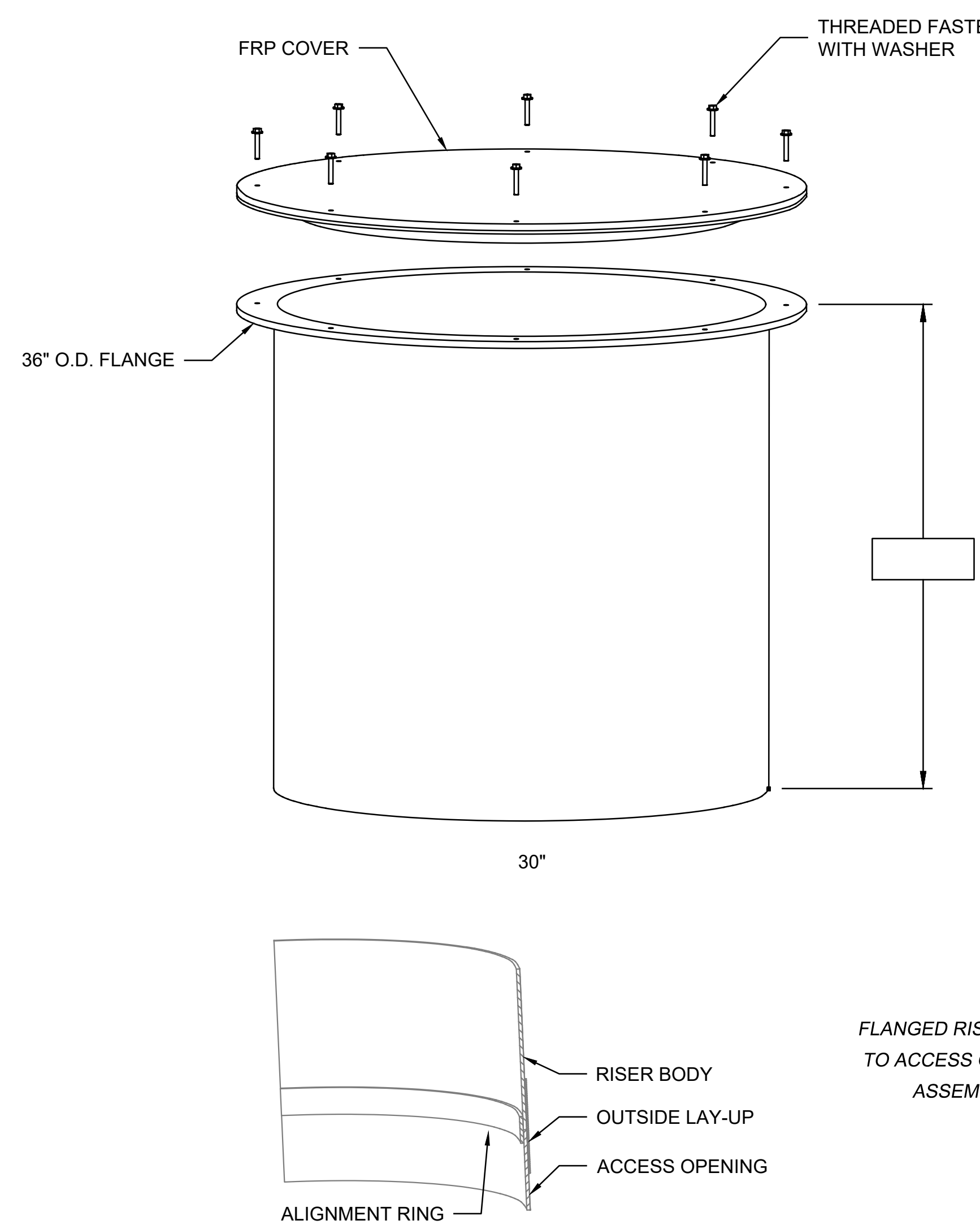
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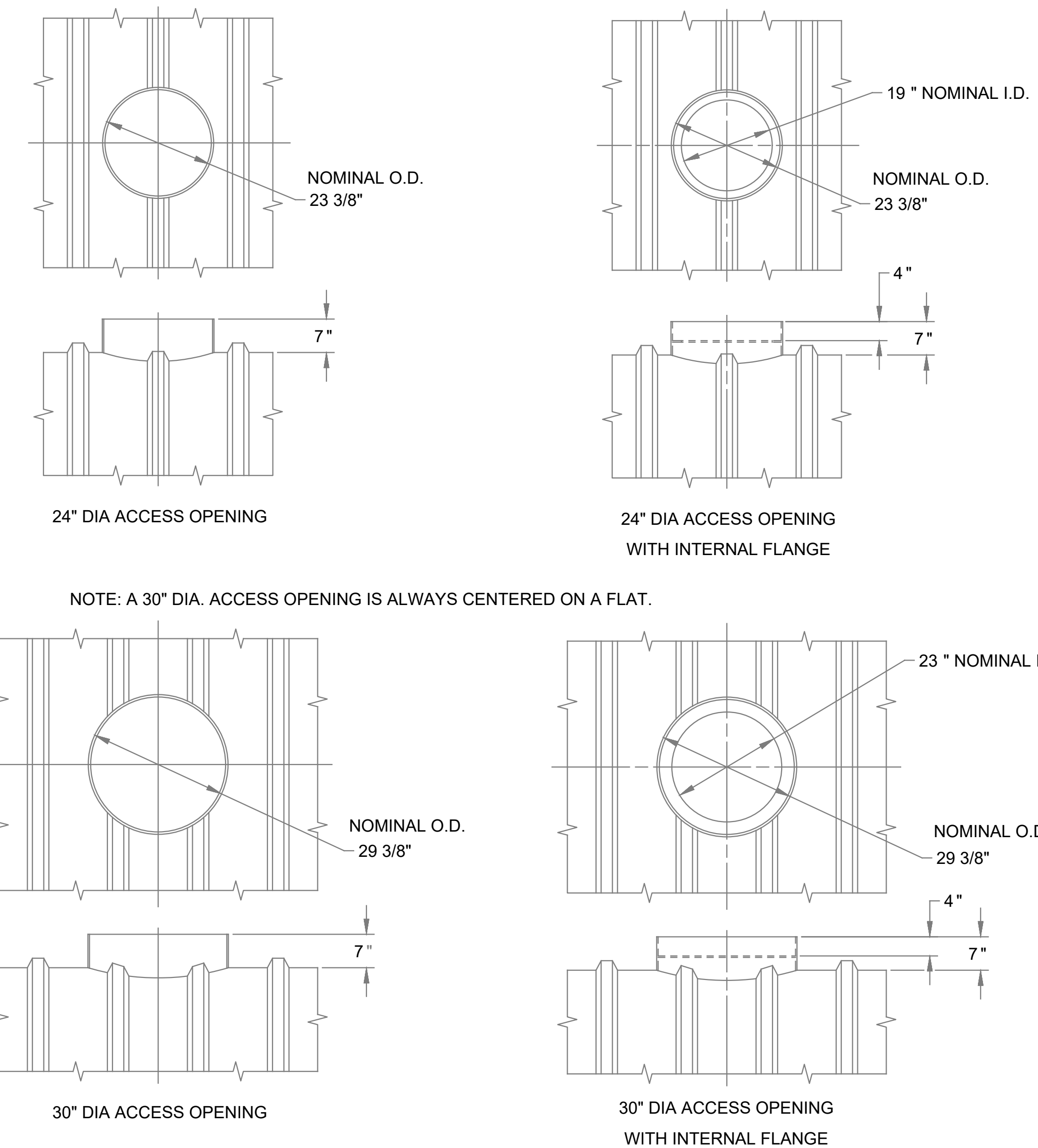


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 www.dcgwatershed.com  
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**NOTES:**  
 - FRP access risers are available in 1' increments starting at 2' high.  
 - FRP access risers mate to corresponding FRP access opening.

**PRECAST 24-IN, 30-IN, & 36-IN DIA PVC RISER WITH FRP LID**  
 NTS 11  
 C05 - C07



**24-IN & 30-IN ACCESS OPENINGS**  
 NTS 12  
 C05 - C07

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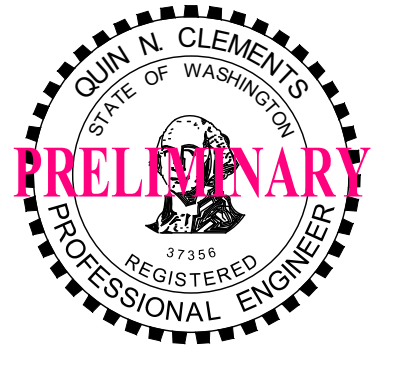
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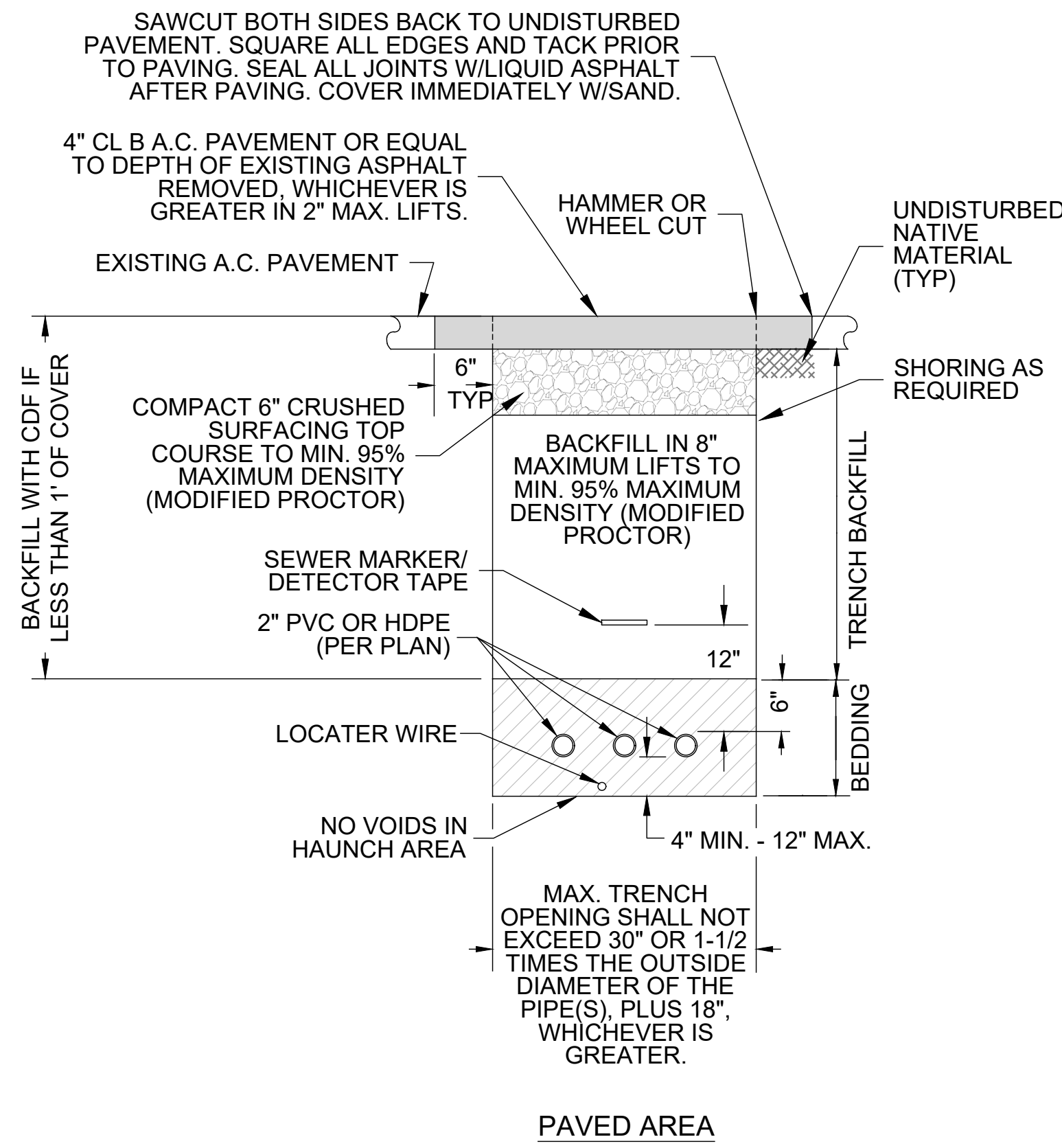




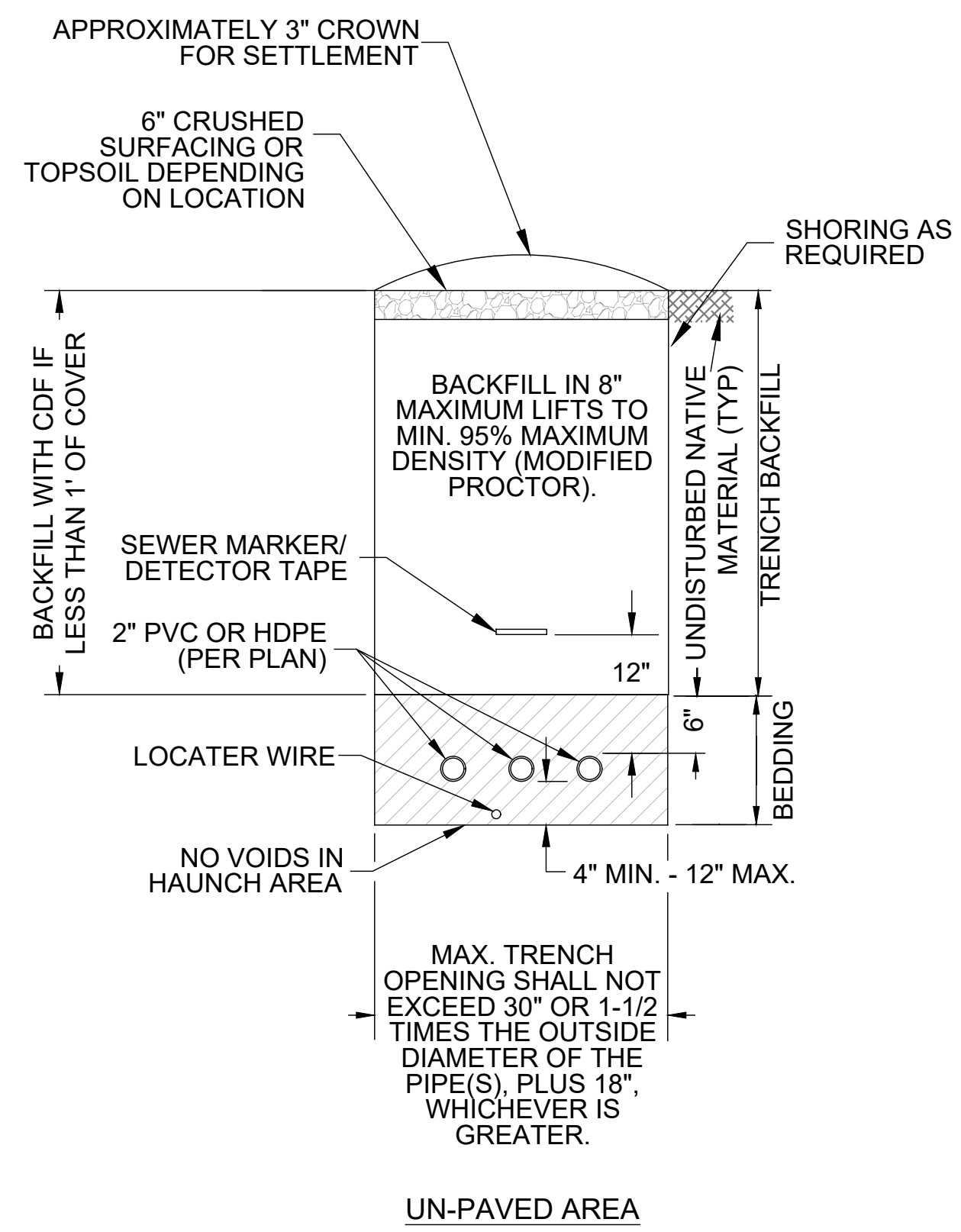
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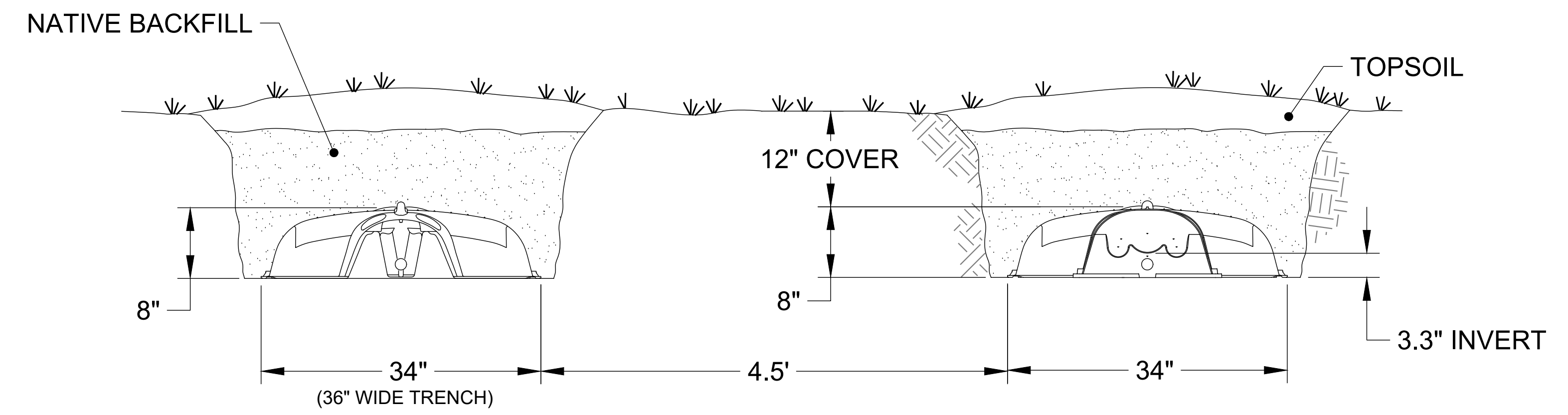
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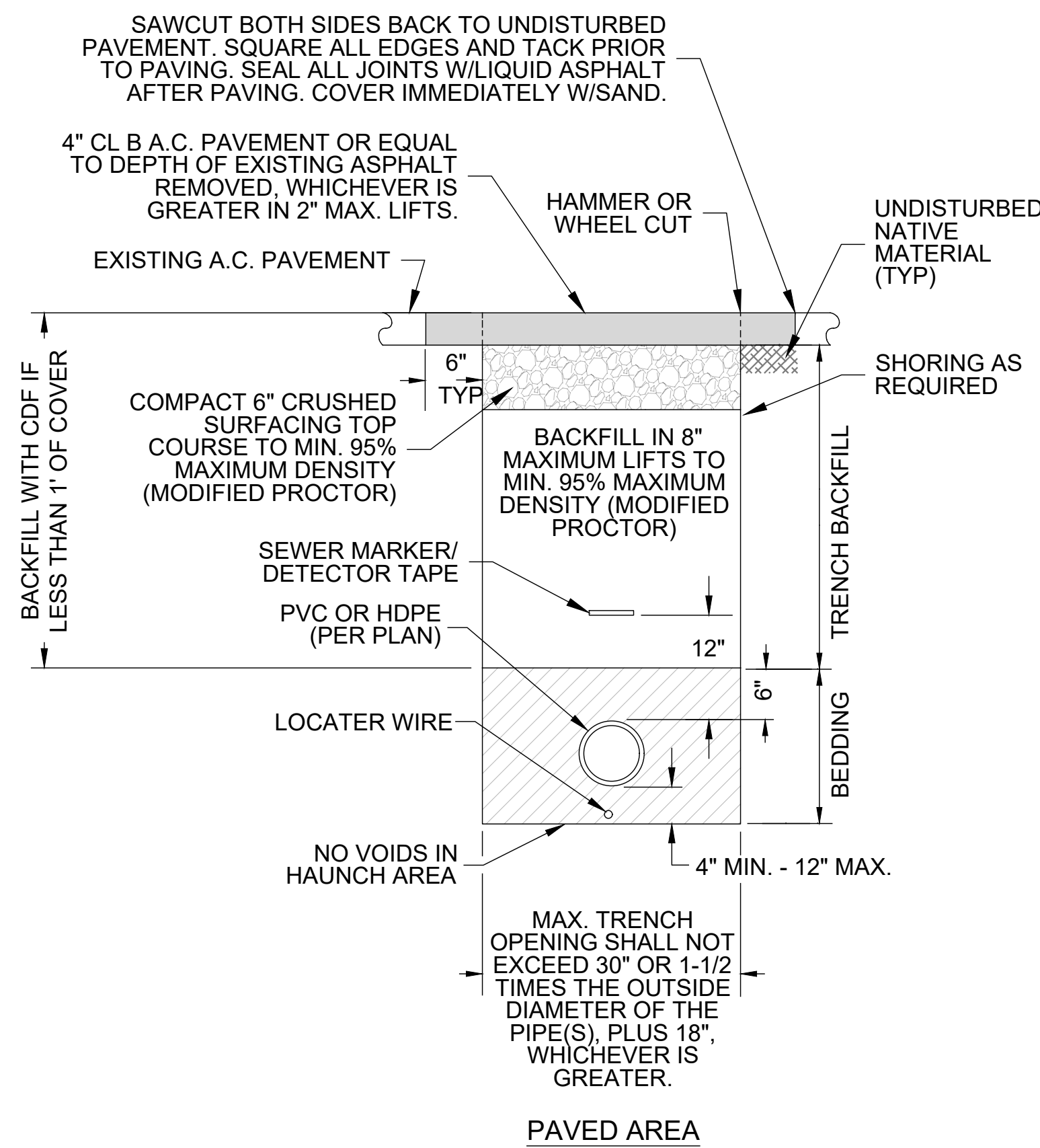
- NOTES:**
1. DETAIL PERTAINS TO PIPE SIZES 12" AND UNDER.
  2. ALL TRENCH BACKFILL SHALL BE CLEAN EARTH OR SAND, FREE FROM CLAY, FROZEN LUMPS, ROOTS OR MOISTURE IN EXCESS OF THAT PERMITTING REQUIRED COMPACTION. ROCKS OR LUMPS LARGER THAN 3 INCHES MAXIMUM SHALL NOT BE USED FOR PIPE ZONE BACKFILL.
  3. PIPE ZONE BEDDING PER APWA.
  4. USE OF NATIVE MATERIAL FOR BACKFILL MAY BE APPROVED BY THE ENGINEER.
  5. LOCATER WIRES SHALL BE BLUE COATED 14 GAGE COPPER WIRE CONTINUOUS TO ABOVE GROUND ACCESS POINTS (METERS & VALVES) SPLICES IN WIRE, IF NEEDED, SHALL BE MADE WITH WATERPROOF SPLICE KITS.
  6. WATER SETTILING OF BACKFILL NOT ALLOWED
  7. MINIMUM COVER OVER ALL SEWER MAINS SHALL BE 3'. WHERE PROPOSED SEWER MAIN CROSSES EXISTING WATER MAIN PROVIDE A MINIMUM OF 1.5' OF VERTICAL SEPARATION BETWEEN THE SEWER MAIN AND THE WATER MAIN (SEWER BELOW WATER) IN ACCORDANCE WITH OAR 333-061-0050



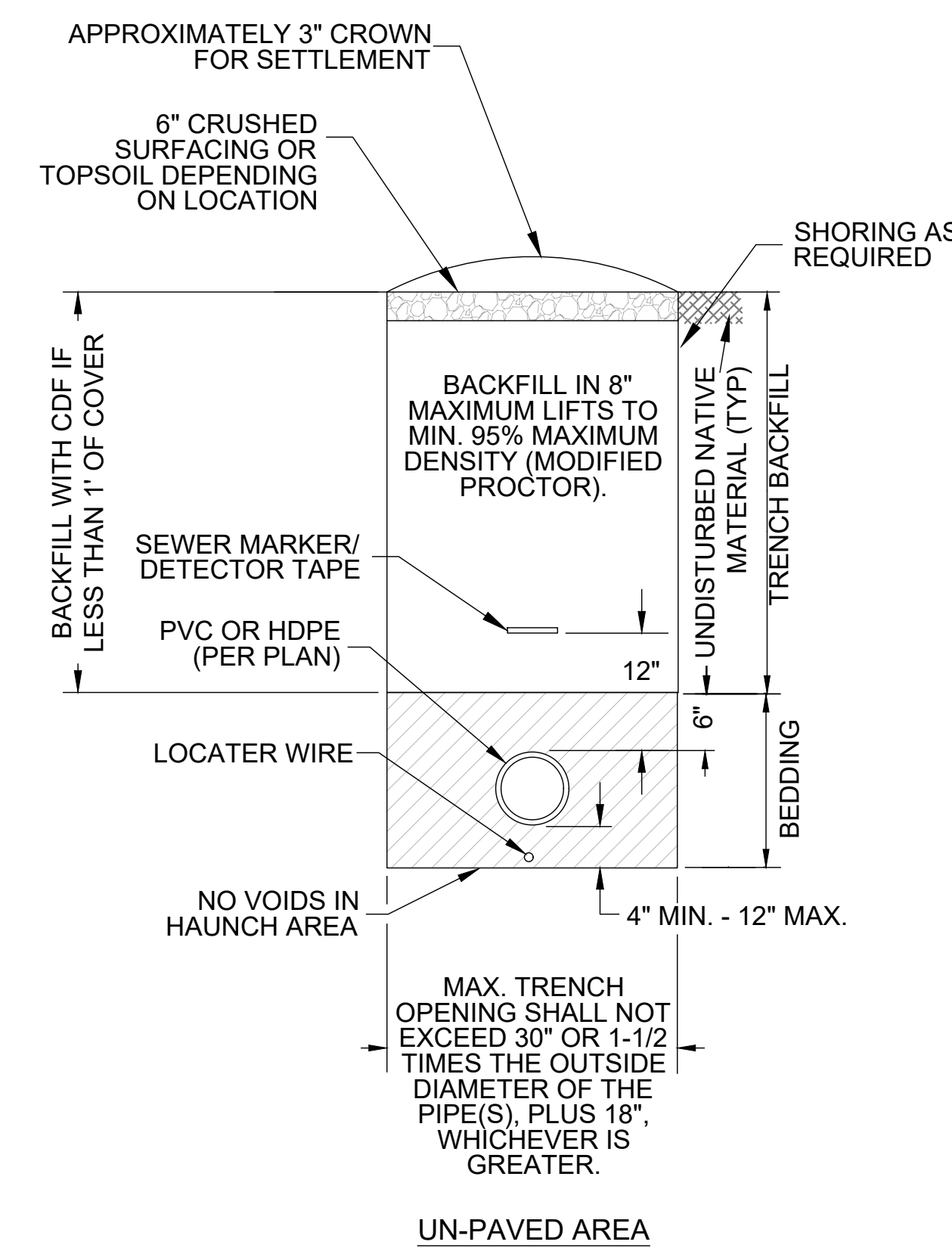
**TYPICAL UTILITY TRENCH (3x FORCE MAINS)**  
 NTS  
 13  
 C03 & C04



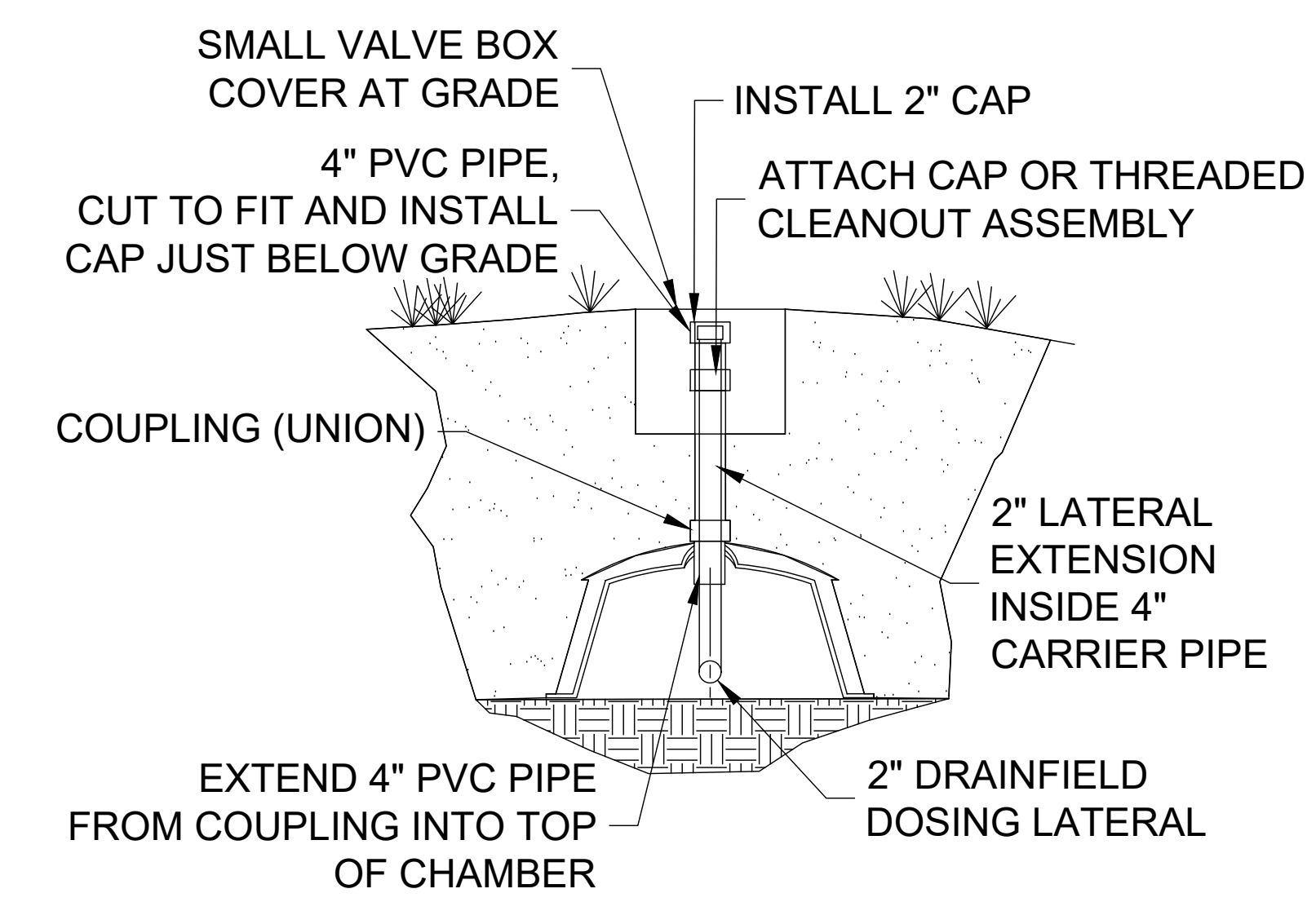
**DRAINFIELD TRENCH CROSS SECTION**  
 NTS  
 15  
 C04



- NOTES:**
1. DETAIL PERTAINS TO PIPE SIZES 12" AND UNDER.
  2. ALL TRENCH BACKFILL SHALL BE CLEAN EARTH OR SAND, FREE FROM CLAY, FROZEN LUMPS, ROOTS OR MOISTURE IN EXCESS OF THAT PERMITTING REQUIRED COMPACTION. ROCKS OR LUMPS LARGER THAN 3 INCHES MAXIMUM SHALL NOT BE USED FOR PIPE ZONE BACKFILL.
  3. PIPE ZONE BEDDING PER APWA.
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  6. WATER SETTILING OF BACKFILL NOT ALLOWED
  7. MINIMUM COVER OVER ALL SEWER MAINS SHALL BE 3'. WHERE PROPOSED SEWER MAIN CROSSES EXISTING WATER MAIN PROVIDE A MINIMUM OF 1.5' OF VERTICAL SEPARATION BETWEEN THE SEWER MAIN AND THE WATER MAIN (SEWER BELOW WATER) IN ACCORDANCE WITH OAR 333-061-0050

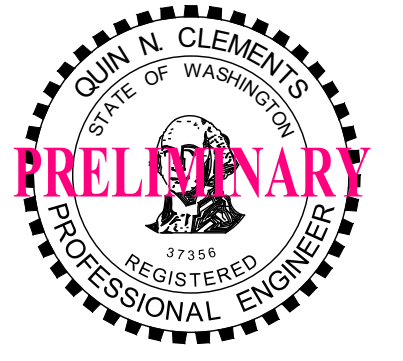


**TYPICAL UTILITY TRENCH (SINGLE PIPE)**  
 NTS  
 14  
 C03 & C04

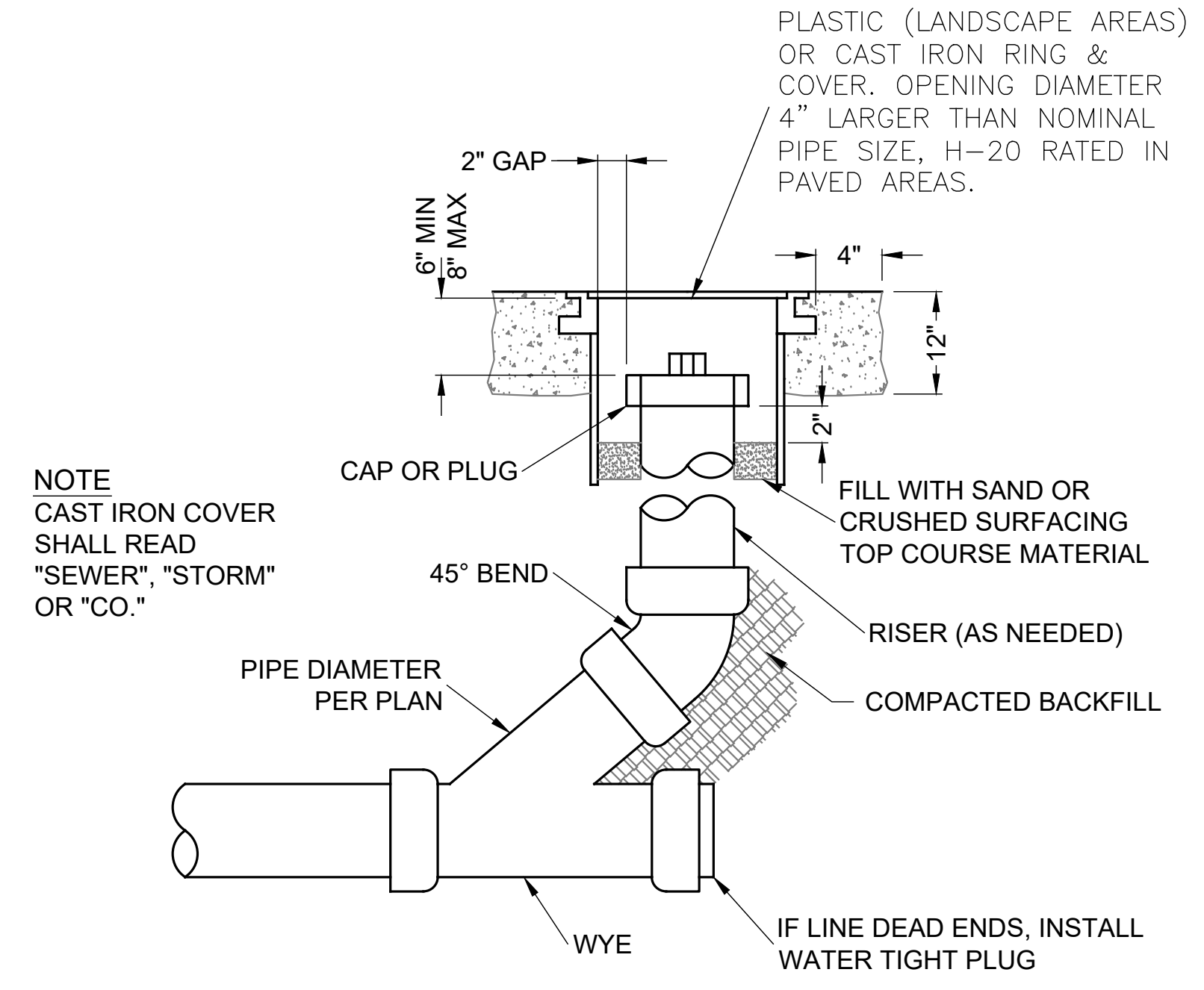


**MONITORING PORT DETAIL**  
 NTS  
 16  
 C04

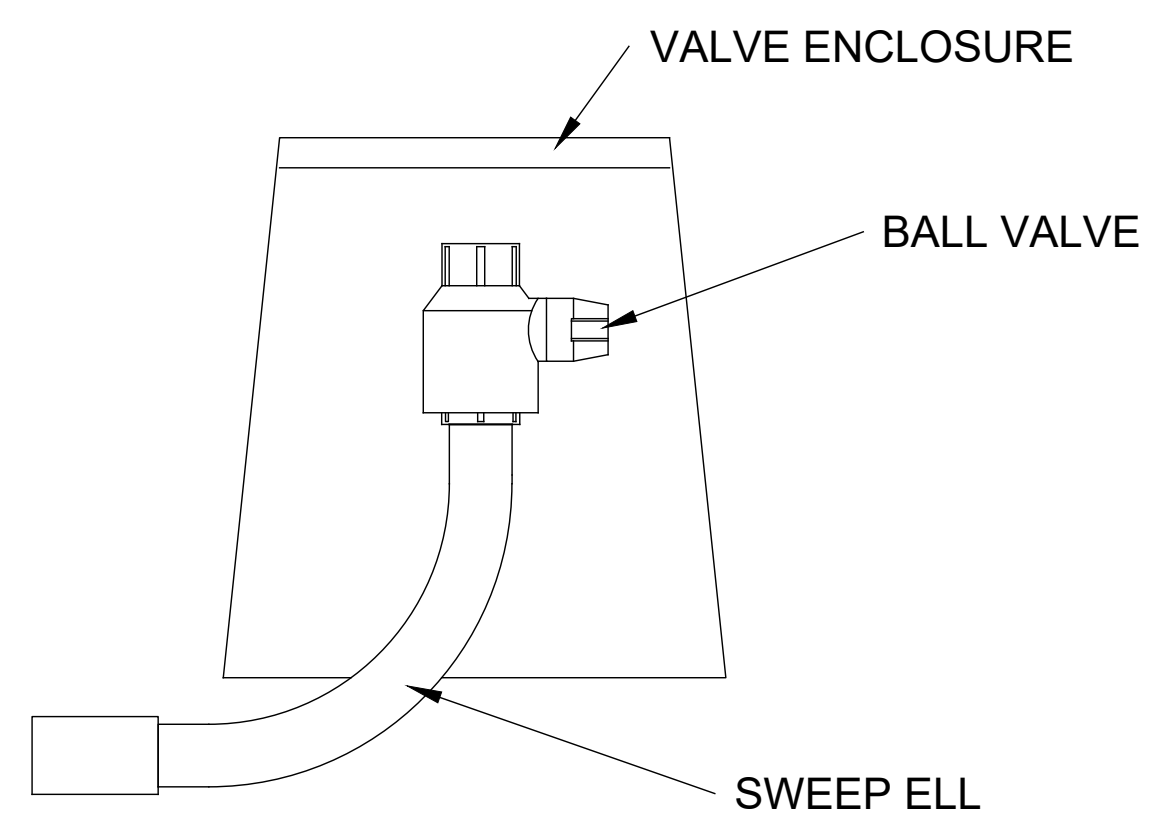




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**SANITARY SEWER CLEANOUT DETAIL** (17)  
 NTS (C03)



**FLUSHING PORT DETAIL** (18)  
 NTS (C04)

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**GENERAL NOTES**

- UNLESS OTHERWISE INDICATED, ALL WORK SHALL CONFORM TO ISLAND COUNTY CODE AND WSDOT 2023 STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION.
- A COPY OF THE APPROVED PLANS MUST BE ON SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
- THE CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED FOR WORK WITHIN THE PUBLIC RIGHT-OF-WAY PRIOR TO START OF CONSTRUCTION.
- PUBLIC RIGHT-OF-WAY PAVED SURFACES INCLUDING ROADWAYS, SIDEWALKS, AND CURBS; UTILITIES; STRUCTURES AND SURFACE FEATURES THAT ARE DAMAGED BY NEW CONSTRUCTION SHALL BE REPAIRED BY CONTRACTOR AS REQUIRED BY ISLAND COUNTY AT NO ADDITIONAL COST TO OWNER.
- NON PUBLIC RIGHT-OF-WAY PAVED SURFACES INCLUDING ROADWAYS, SIDEWALKS, AND CURBS; UTILITIES; STRUCTURES AND SURFACE FEATURES THAT ARE DAMAGED BY NEW CONSTRUCTION SHALL BE REPAIRED AS REQUIRED BY THE OWNER.
- THE CONTRACTOR SHALL LOCATE AND PROTECT ALL CASTINGS AND UTILITIES DURING CONSTRUCTION AND SHALL CONTACT THE UNDERGROUND UTILITIES LOCATOR SERVICE (1-800-424-5555) AT LEAST 72 HOURS PRIOR TO CONSTRUCTION.
- ALL LOCATIONS OF EXISTING UTILITIES SHOWN HEREON HAVE BEEN ESTABLISHED BY FIELD SURVEY OR OBTAINED FROM AVAILABLE RECORDS AND SHOULD THEREFORE BE CONSIDERED APPROXIMATE ONLY AND NOT NECESSARILY COMPLETE. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INDEPENDENTLY VERIFY THE ACCURACY OF ALL UTILITY LOCATIONS SHOWN AND TO FURTHER DISCOVER AND AVOID ANY OTHER UTILITIES NOT SHOWN HEREON WHICH MAY BE AFFECTED BY THE IMPLEMENTATION OF THIS PLAN.

**GRADING AND ACCESSIBILITY NOTES**

- SPOT ELEVATION WITH ± DESIGNATES AN EXISTING CONDITION WHERE PROPOSED ELEVATION SHALL MATCH EXISTING.
- ELEVATION AND SLOPES WITH THE SYMBOL \* DESIGNATE ACCESSIBLE GRADES. SLOPES SHALL NOT EXCEED SLOPES CALCULATED FROM ELEVATIONS AND LOCATIONS ON PLANS OR ON THE DETAILS.

**ECOLOGY CONSTRUCTION STORMWATER GENERAL PERMIT NOTES**

- THE CONTRACTOR SHALL APPLY FOR, OBTAIN, AND COMPLY WITH REQUIREMENTS OF WASHINGTON STATE DEPARTMENT OF ECOLOGY CONSTRUCTION STORMWATER GENERAL PERMIT (CSWGP).
- THE CONTRACTOR SHALL SUBMIT A NOTICE OF INTENT TO COMPLY WITH ECOLOGY'S BMP'S IN ACCORDANCE WITH ECOLOGY'S CSWGP. THE CONTRACTOR SHALL PUBLISH A NOTICE ON TWO SEPARATE DAYS IN A NEWSPAPER THAT HAS GENERAL CIRCULATION IN ISLAND COUNTY AND MUST ANNOUNCE THAT THE PROJECT IS SEEKING COVERAGE UNDER ECOLOGY'S CSWGP PER CSWGP'S REQUIREMENTS.

**TEMPORARY EROSION AND SEDIMENT CONTROL (TESC) NOTES**

- CONSTRUCTION EROSION CONTROL MEASURES MUST BE IN PLACE AND APPROVED BY ISLAND COUNTY SITE DEVELOPMENT INSPECTOR PRIOR TO ANY EARTH DISTURBANCE.
- CONTRACTOR SHALL PREPARE AND SUBMIT FOR PERMITTING AGENCY'S REVIEW A STORMWATER POLLUTION PREVENTION PLAN (SWPPP). THE SWPPP SHALL BE PREPARED IN ACCORDANCE WITH WASHINGTON STATE'S DEPARTMENT OF ECOLOGY REQUIREMENTS FOR COMPLIANCE WITH WASHINGTON STATE DEPARTMENT OF ECOLOGY CONSTRUCTION STORMWATER GENERAL PERMIT.
- THE IMPLEMENTATION OF THE TEMPORARY EROSION AND SEDIMENT CONTROL (TESC) PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT AND UPGRADING OF THE TESC FACILITIES IN COORDINATION WITH THE CONTRACTOR PREPARED SWPPP IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS APPROVED AND SITE IS PERMANENTLY STABILIZED.
- THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY SEDIMENTATION COLLECTION FACILITIES TO ENSURE THAT SEDIMENT-LADEN WATER DOES NOT DISCHARGE FROM SITE. IN ACCORDANCE WITH WASHINGTON STATE DEPARTMENT OF ECOLOGY CONSTRUCTION STORMWATER GENERAL PERMIT REQUIREMENTS, INCLUDING BUT NOT LIMITED TO SAMPLING AND REPORTING DISCHARGE FROM SITE. DURING THE COURSE OF CONSTRUCTION IT SHALL BE THE OBLIGATION AND RESPONSIBILITY OF THE CONTRACTOR TO ADDRESS ANY NEW CONDITIONS THAT MAY BE CREATED BY CONTRACTOR'S ACTIVITIES AND TO PROVIDE ADDITIONAL FACILITIES THAT MAY BE NEEDED TO PROTECT ADJACENT PROPERTIES.
- NO SEDIMENT SHALL BE TRACKED INTO THE STREET OR ONTO PAVED SURFACES. SEDIMENT SHALL BE REMOVED FROM TRUCKS AND EQUIPMENT PRIOR TO LEAVING THE SITE. IN THE EVENT OF FAILURE OF THE EROSION CONTROL SYSTEM RESULTING IN SEDIMENT BEING TRACKED ONTO PAVED SURFACES, THE CONTRACTOR SHALL IMMEDIATELY IMPLEMENT MEASURES TO CORRECT THE SITUATION, AND VACUUM STREET SWEEPING SHALL BE EMPLOYED ON AN EMERGENCY BASIS. IF VACUUM STREET SWEEPING VEHICLES ARE UTILIZED, THEY SHALL BE OF THE TYPE THAT ACTUALLY REMOVES THE SEDIMENT FROM THE PAVEMENT. WASHING OF THE STREETS WILL NOT BE ALLOWED WITHOUT PRIOR ISLAND COUNTY APPROVAL.
- ALL TESC FACILITIES SHALL CONFORM TO THE BEST MANAGEMENT PRACTICES LISTED IN WASHINGTON STATE DEPARTMENT OF ECOLOGY STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON.
- NO EXPOSED EARTH SHALL REMAIN UNSTABILIZED FOR MORE THAN 7 DAYS FROM MAY 1ST TO SEPTEMBER 30TH. FROM OCTOBER 1ST TO APRIL 30TH NO EXPOSED EARTH SHALL REMAIN UNSTABILIZED FOR MORE THAN 2 DAYS. STABILIZATION OF EXPOSED EARTH SHALL BE WITH APPROVED TESC METHODS (I.E. SEEDING, MULCHING, NETTING, EROSION BLANKETS, COVERING, ETC.) IN COORDINATION WITH THE CONTRACTOR PREPARED SWPPP.
- NO SEDIMENT SHALL BE ALLOWED TO ENTER ANY STORMWATER CONVEYANCE SYSTEM WITHIN THE SITE, OR ADJACENT PROPERTIES. IN THE EVENT OF A FAILURE OF THE TESC PLAN THAT RESULTS IN SEDIMENT ENTERING A CATCH BASIN, THE CONTRACTOR SHALL REMOVE ALL SUCH SEDIMENT IMMEDIATELY.
- DISTURBED SOILS THAT ARE EXPOSED TO SURFACE RUNOFF SHALL BE STABILIZED WITH TESC MEASURES.
- THE TESC MEASURES SHOWN ON THE PLANS ARE FOR PERMITTING PURPOSES ONLY. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL MEANS AND METHODS AND SEQUENCING OF TESC MEASURES AND ENSURING STORMWATER DISCHARGE REQUIREMENTS ARE MET.

**EARTHWORK AND GRADING NOTES**

- PRIOR TO ANY SITE CONSTRUCTION (WHICH INCLUDES CLEARING/LOGGING, DEMOLITION, OR GRADING THE SITE), CLEARING LIMITS SHALL BE LOCATED AND FIELD IDENTIFIED BY THE CONTRACTOR'S SURVEYOR.
- MATCH EXISTING GRADES AT EDGE CONDITIONS AND PROVIDE SMOOTH TRANSITION.
- SLOPE FINISHED SURFACE A MINIMUM OF 2% AWAY FROM THE BUILDING FOR AT LEAST TWO FEET ON ALL SIDES OF THE BUILDING UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL PERFORM ALL WORK WITHIN THE TREE PROTECTION ZONE/CRITICAL ROOT ZONE IN ACCORDANCE WITH SPECIFICATIONS.
- BOTTOM OF WALL REFERS TO THE FINISH SURFACE GRADE AT THE BASE OF THE WALL. CONTRACTOR TO REFER TO STRUCTURAL PLANS FOR ADDITIONAL DEPTH REQUIREMENTS FOR FOOTING/SUBBASE AND TO PROVIDE ADEQUATE COVER OVER FOUNDATION.
- PRIOR TO PLANTING AND MULCHING, COORDINATE FINE GRADING FOR SURFACE DRAINAGE WITH LANDSCAPE INSTALLATION. GRADE TO PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDINGS AT BOTH SUBGRADE AND FINISH GRADE.

**GENERAL SEWER AND DRAINAGE NOTES**

- UNLESS NOTED OTHERWISE ON PLANS, PIPE MATERIALS FOR SANITARY SIDE SEWER (SSS) AND SERVICE DRAIN (SD) SHALL BE PVC PIPE AND FITTINGS PER ASTM D3034, SDR35 WITH RUBBER GASKET JOINTS.
- DUCTILE IRON PIPE SHALL BE PER ANSI A21.51 CLASS 50 WITH PUSH-ON JOINTS. FITTINGS FOR DUCTILE IRON PIPE SHALL BE DUCTILE PER ANSI A21.10 OR ANSI A21.53 WITH PUSH-ON JOINTS. GLANDS ON MECHANICAL JOINT PIPE AND FITTINGS SHALL BE DUCTILE.
- PIPES WITH LESS THAN 18" COVER SHALL BE DUCTILE IRON PIPE. ROOF DOWNSPOUT TIGHTLINES AND BUILDING FOOTING DRAINS ARE EXCEPTIONS TO THIS REQUIREMENT AND MAY HAVE A MINIMUM OF 12 INCHES OF COVER UNLESS NOTED OTHERWISE ON PLANS.
- TEES, CATCH BASIN CONNECTIONS, SIDE SEWERS, AND SERVICE DRAINS SHALL BE PLACED AT A MINIMUM SLOPE OF 2% AND A MAXIMUM SLOPE OF 50% UNLESS OTHERWISE INDICATED ON THE PLANS.
- WHERE A NEW PIPE CLEARS AN EXISTING OR NEW UTILITY BY 6" OR LESS, POLYETHYLENE PLASTIC FOAM SHALL BE PLACED AS A CUSHION BETWEEN THE UTILITIES.
- PROVIDE DUCTILE IRON PIPE SLEEVE WHERE SS, SSS, OR SD PASSES UNDERNEATH OR THROUGH ANY FOOTINGS, STEM WALLS, RETAINING WALLS, OR ROCKERIES.
- PROVIDE SWEEPING TEES OR WYES AT ALL SS PIPE TO PIPE CONNECTION LOCATIONS.
- COORDINATE CONNECTION OF SANITARY SIDE SEWER WITH MECHANICAL PLANS. PROVIDE FITTINGS AS REQUIRED TO MAKE CONNECTION.

**STORM DRAINAGE NOTES**

- THE STORM DRAINAGE SYSTEM SHALL BE CONSTRUCTED ACCORDING TO THE APPROVED DRAINAGE CONTROL PLAN. ANY DEVIATION FROM THE APPROVED PLANS WILL REQUIRE WRITTEN APPROVAL FROM ISLAND COUNTY AND THE OWNER'S REPRESENTATIVE.
- A COPY OF THE APPROVED DRAINAGE CONTROL PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
- ALL REQUIRED STORM WATER FACILITIES MUST BE CONSTRUCTED AND IN OPERATION PRIOR TO CONSTRUCTION OF IMPERVIOUS SURFACING UNLESS OTHERWISE APPROVED BY ISLAND COUNTY AND THE OWNER'S REPRESENTATIVE.
- NOT USED.
- PROVIDE FOOTING DRAIN CLEANOUTS AT A MAXIMUM 100' ON CENTER AND PROVIDE NO FEWER THAN TWO PER STRUCTURE. COORDINATE LOCATION WITH THE OWNER'S ARCHITECT AND ENGINEER. CONTRACTOR SHALL DOCUMENT AS-BUILT LOCATION OF INSTALLED CLEANOUTS ON CONTRACTOR'S AS-BUILTS. MAINTAIN AS-BUILTS AS WORK PROGRESSES.
- ROOF DOWNSPOUT TIGHTLINES CONVEYING STORMWATER FROM DOWNSPOUTS SHALL BE OF 6-INCH DIAMETER PVC STORM DRAIN.
- TYPE 1 AND TYPE 2 CATCH BASIN STRUCTURES PER 2023 WSDOT STANDARD PLANS AND SPECIFICATIONS.
- PROVIDE A MINIMUM OF 2.0% SLOPE ON ALL DRAINAGE AND DOWNSPOUT CONNECTION LINES, UNLESS NOTED OTHERWISE.
- PROVIDE STORM DRAIN STENCILING IN PAVEMENT AT ALL STORM DRAIN CATCH BASINS, INLETS AND AREA DRAINS THAT ARE IN OR WITHIN ONE FOOT OF A PAVED AREA. STENCILING SHALL BE LOCATED IN ACCORDANCE WITH ISLAND COUNTY STENCILING REQUIREMENTS.

**STORMWATER INFILTRATION FACILITIES PROTECTION NOTES**

- STORMWATER INFILTRATION FACILITIES SHALL BE PROTECTED TO ENSURE FUNCTION FOR MEETING REQUIREMENTS OF PERMIT.
- REDIRECT SHEET FLOW, BLOCK DRAIN INLETS, PROVIDE BYPASS PIPES AS NEEDED AND INSTALL FLOW DIVERSION MEASURES TO PREVENT CONSTRUCTION SILT LADEN WATER AND DEBRIS FROM ENTERING EXCAVATIONS AND FINISH SURFACES FOR BIORETENTION FACILITIES, AND INFILTRATION FACILITIES.
- WHERE AMENDED SOILS, BIORETENTION FACILITIES, AND OTHER INFILTRATION FACILITIES ARE INSTALLED, THESE AREAS MUST BE PROTECTED AT ALL TIMES FROM BEING OVER COMPACTED. IF AREAS BECOME COMPACTED, REMEDIATE AND TILL SOIL IN ACCORDANCE WITH OWNER'S GEOTECHNICAL ENGINEER REPRESENTATIVE REQUIREMENTS AT NO ADDITIONAL COST TO OWNER IN ORDER TO RESTORE INFILTRATION.
- INSTALL FLOW DIVERSION MEASURES OUTSIDE OF THE CRITICAL ROOT ZONE OF TREES TO BE PROTECTED. AT NO TIME SHALL CONSTRUCTION STORMWATER BE DIRECTED TO TREES TO BE PROTECTED. CONSTRUCTION STORMWATER SHALL NOT POND WITHIN A TREE'S CRITICAL ROOT ZONE.

**HORIZONTAL AND VERTICAL CONTROL NOTES**

\*PROVIDED BY HARMSEN

DATUM: NAVD 88

**BENCHMARKS:** FOUND MONUMENT IN CASE LOCATED ALONG THE CENTERLINE MAXWELTON ROAD APPROXIMATELY 600 FEET NORTH OF THE NORTHERLY PARK ENTRANCE. EL=212.29'

**BASIS OF BEARING:** N02°03'28"E BETWEEN FOUND MONUMENTS AT THE EAST QUARTER CORNER OF SECTION 10, TOWNSHIP 29 NORTH, RANGE 3 EAST, W.M. AND THE EAST QUARTER CORNER OF SECTION 15, TOWNSHIP 29 NORTH, RANGE 3 EAST, W.M.

**ELECTRONIC INFORMATION TRANSFER AGREEMENT (EITA)**

AN AUTOCAD® CIVIL 3D® FILE (FOR THE SOLE PURPOSE OF 2D HORIZONTAL LAYOUT) WILL BE PROVIDED TO THE CONTRACTOR AT THE BEGINNING OF THE PROJECT'S CONSTRUCTION. THE AUTOCAD FILE WILL PROVIDE FOR HORIZONTAL LAYOUT OF UTILITY SERVICES WITHIN CIVIL PROJECT AREA, GRADING CONTOURS, STRIPING, AND SPOT ELEVATIONS AND/OR PAVING (WALKS, DRIVES) SHOWN ON PLAN VIEW OF THE CIVIL PLANS. PRIOR TO RELEASE OF AUTOCAD FILE, CONTRACTOR WILL BE REQUIRED TO SIGN AN ELECTRONIC INFORMATION TRANSFER AGREEMENT (EITA) FORM FROM MIG. SUBMIT REQUEST FOR MIG'S EITA FORM THROUGH THE OWNER'S PROJECT CONTACT ESTABLISHED FOR THE JOB. OWNER'S PROJECT CONTACT WILL THEN NOTIFY MIG'S PROJECT MANAGER FOR A COPY OF THE EITA FORM. AFTER MIG HAS RECEIVED THE SIGNED EITA FORM, ALLOW UP TO SEVEN (7) BUSINESS DAYS FOR PREPARATION OF THE FILE BY MIG. IF DISCREPANCIES ARE OBSERVED BETWEEN THE AUTOCAD FILE PROVIDED AND INFORMATION SHOWN ON THE HARD COPY OF THE CONSTRUCTION DOCUMENTS, NOTIFY PROJECT CONTACT BY SUBMITTING A RFI.



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**100% DESIGN DEVELOPMENT**

ISSUE DATE: DECEMBER 1, 2023

REVISION SCHEDULE		
Rev #	Date	Description

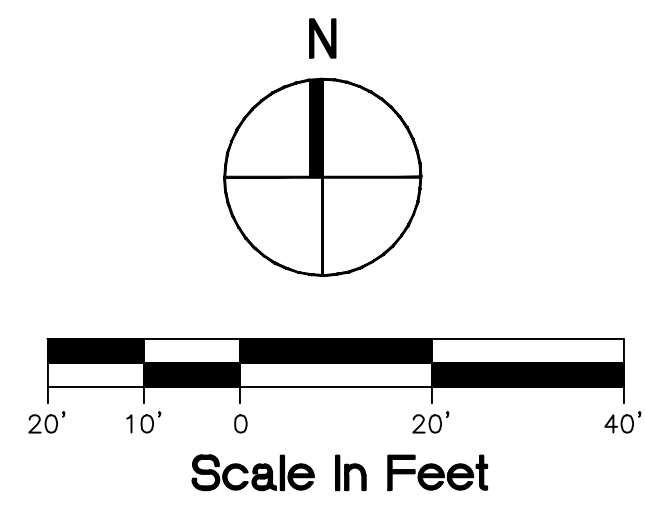
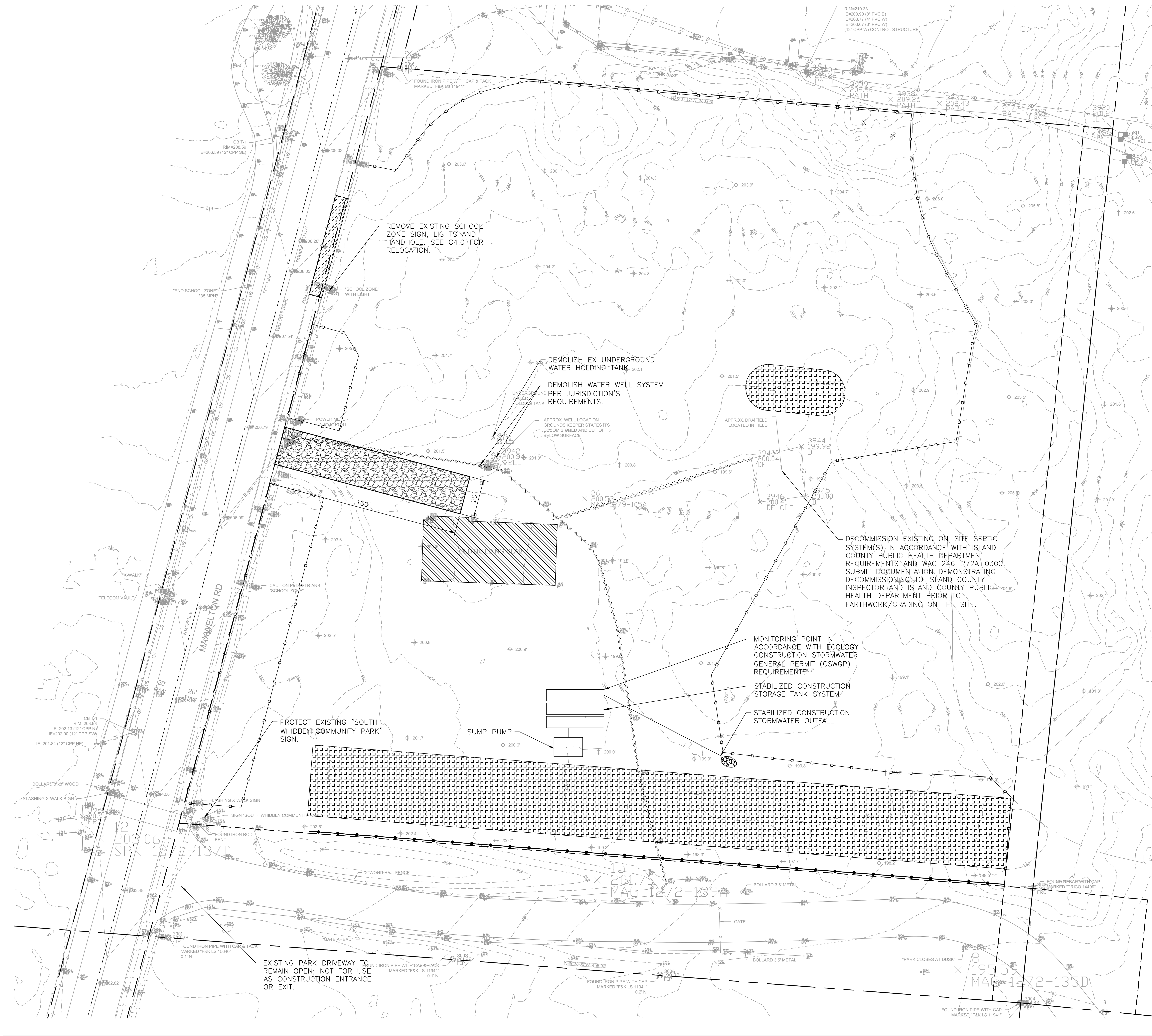
CONTENTS:  
**CIVIL NOTES**

SCALE: As Indicated  
 DRAWING: JA  
 CHECKED: BVDF  
 PROJECT NO: 15261

SHEET:  
**C1.0**

**PLEASE CALL 811  
 3 Working Days  
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- LEGEND**
- PROPERTY LINE
  - LIMIT OF WORK/TREE PROTECTION/CONSTRUCTION FENCE
  - SILT FENCE
  - STABILIZED CONSTRUCTION ENTRANCE
  - CATCH BASIN PROTECTION
  - INTERCEPTOR SWALE
  - STRAW WATTLE
  - SAWCUT
  - FOUNDATION DEMOLITION
  - ASPHALT REMOVAL
  - INFILTRATION PROTECTION AREA, SEE NOTE 2
  - UTILITY LINE REMOVAL

- NOTES**
1. EROSION CONTROL PER ISLAND COUNTY CODE SECTION 11.02.330.
  2. PROTECT INFILTRATION AREAS FROM COMPACTION INCLUDING NO STOCKPILING OR STAGING WITHIN AREA. SEE STORMWATER INFILTRATION FACILITIES PROTECTION NOTES ON SHEET C1.0.

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Rev #	Date	Description

CONTENTS:  
**EROSION CONTROL AND DEMOLITION PLAN**  
 SCALE: As Indicated  
 DRAWING: JA  
 CHECKED: BVP  
 PROJECT NO: 15261

SHEET:  
**C2.0**

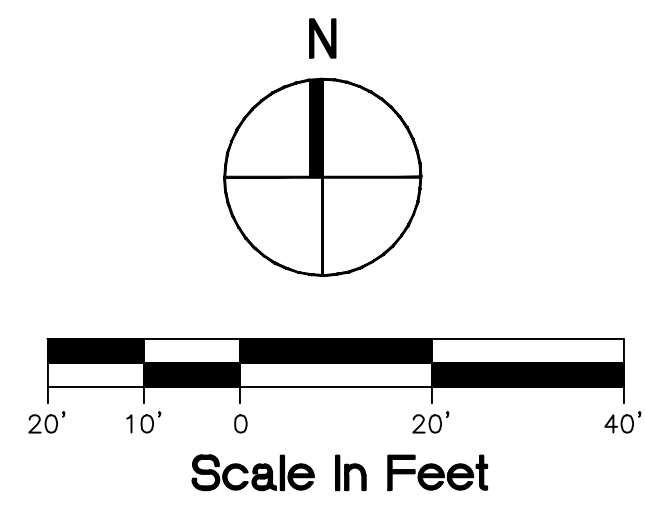
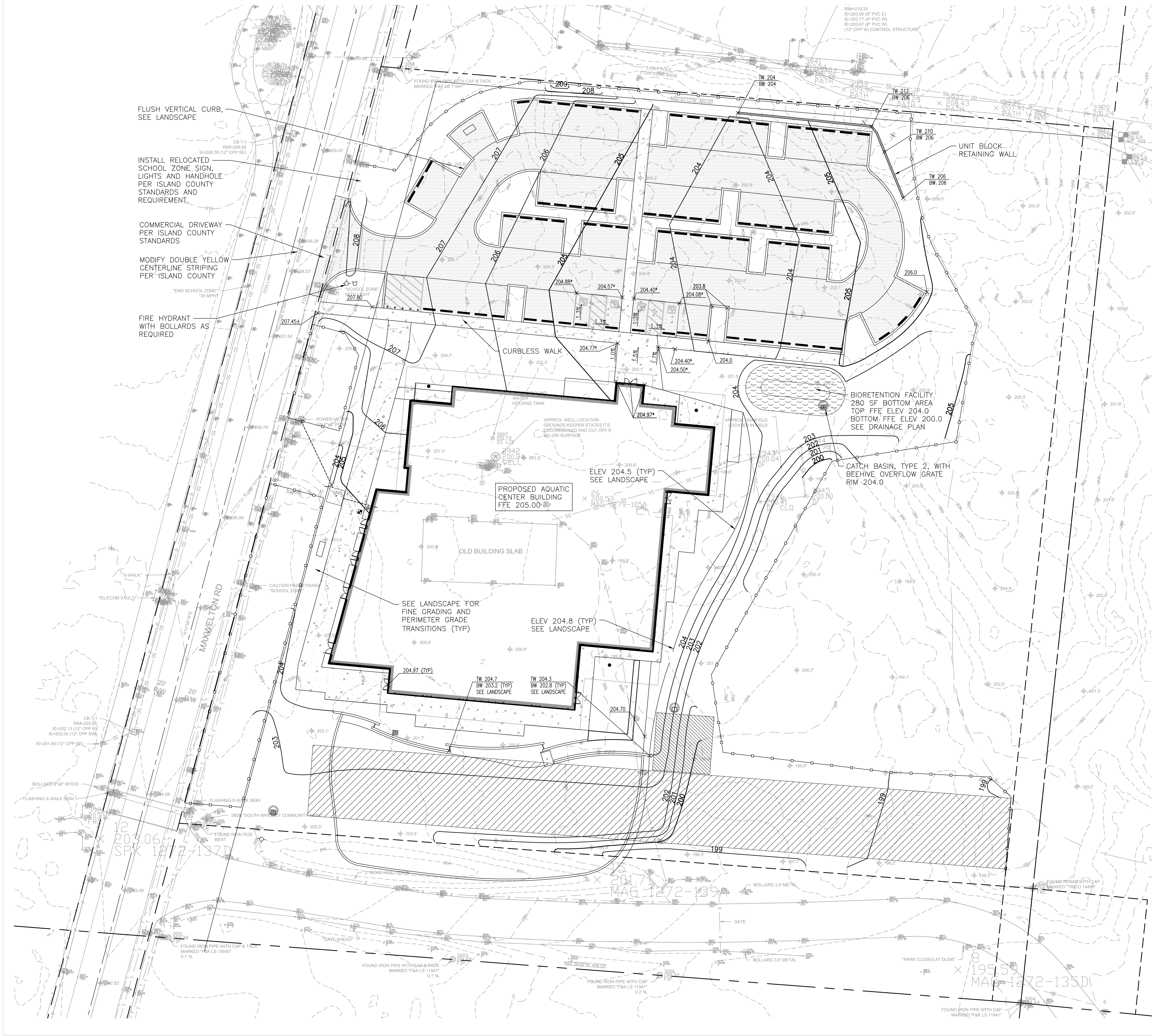
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Project No. 23-0037 - S Whidbey Parks & Rec Center  
 Date: 2/20/2024  
 Author: [Name]  
 Designer: [Name]  
 Checker: [Name]  
 Project: [Name]









**LEGEND**

- PROPERTY LINE
- PROPOSED BUILDING
- LIMIT OF WORK/TREE PROTECTION/CONSTRUCTION FENCE
- HOT MIX ASPHALT CONCRETE PAVEMENT
- CEMENT CONCRETE WALK
- WHEEL STOPS
- PROPOSED CONTOURS
- SPOT ELEVATION
- SLOPE ARROW
- AMENDED SOILS (PLANTING, LAWN AND RESTORATION, SEE LANDSCAPE PLANS)
- STORMWATER BIORETENTION FACILITY
- GRAVEL PATH

- NOTES**
1. SEE SHEET C1.0 FOR NOTES.
  2. SEE LANDSCAPE ARCHITECT SHEETS FOR PEDESTRIAN PAVING AND FINE GRADING AROUND BUILDING.
  3. SEE LANDSCAPE ARCHITECT SHEETS FOR PERIMETER WALK (NOT SHOWN) BY OTHERS.

FLUSH VERTICAL CURB, SEE LANDSCAPE

INSTALL RELOCATED SCHOOL ZONE SIGN, LIGHTS AND HANDHOLE PER ISLAND COUNTY STANDARDS AND REQUIREMENT.

COMMERCIAL DRIVEWAY PER ISLAND COUNTY STANDARDS

MODIFY DOUBLE YELLOW CENTERLINE STRIPING PER ISLAND COUNTY

FIRE HYDRANT WITH BOLLARDS AS REQUIRED

CURBLESS WALK

UNIT BLOCK RETAINING WALL

BIORETENTION FACILITY  
280 SF BOTTOM AREA  
TOP FFE ELEV 204.0  
BOTTOM FFE ELEV 200.0  
SEE DRAINAGE PLAN

PROPOSED AQUATIC CENTER BUILDING  
FFE 205.00

SEE LANDSCAPE FOR FINE GRADING AND PERIMETER GRADE TRANSITIONS (TYP)

ELEV 204.8 (TYP)  
SEE LANDSCAPE

TW 204.7  
BW 203.2 (TYP)  
SEE LANDSCAPE

TW 204.3  
BW 202.8 (TYP)  
SEE LANDSCAPE

CATCH BASIN, TYPE 2, WITH BEEHIVE OVERFLOW GRATE  
RIM 204.0

Project No. 20-2027 - 10/18/2024 - B. Anderson  
 File: Z:\Stores\Projects - Internal\Projects\152620\152627\_Whidbey\_Parks\_Aquatic\_Center\CAD\Drawings\152627\_Whidbey\_Parks\_Aquatic\_Center\_Paving\_Layout\_C4.0

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Rev #	Date	Description

CONTENTS:  
**GRADING AND PAVING PLAN**

SCALE:	As Indicated
DRAWN:	JA
CHECKED:	BVDF
PROJECT NO.:	152621

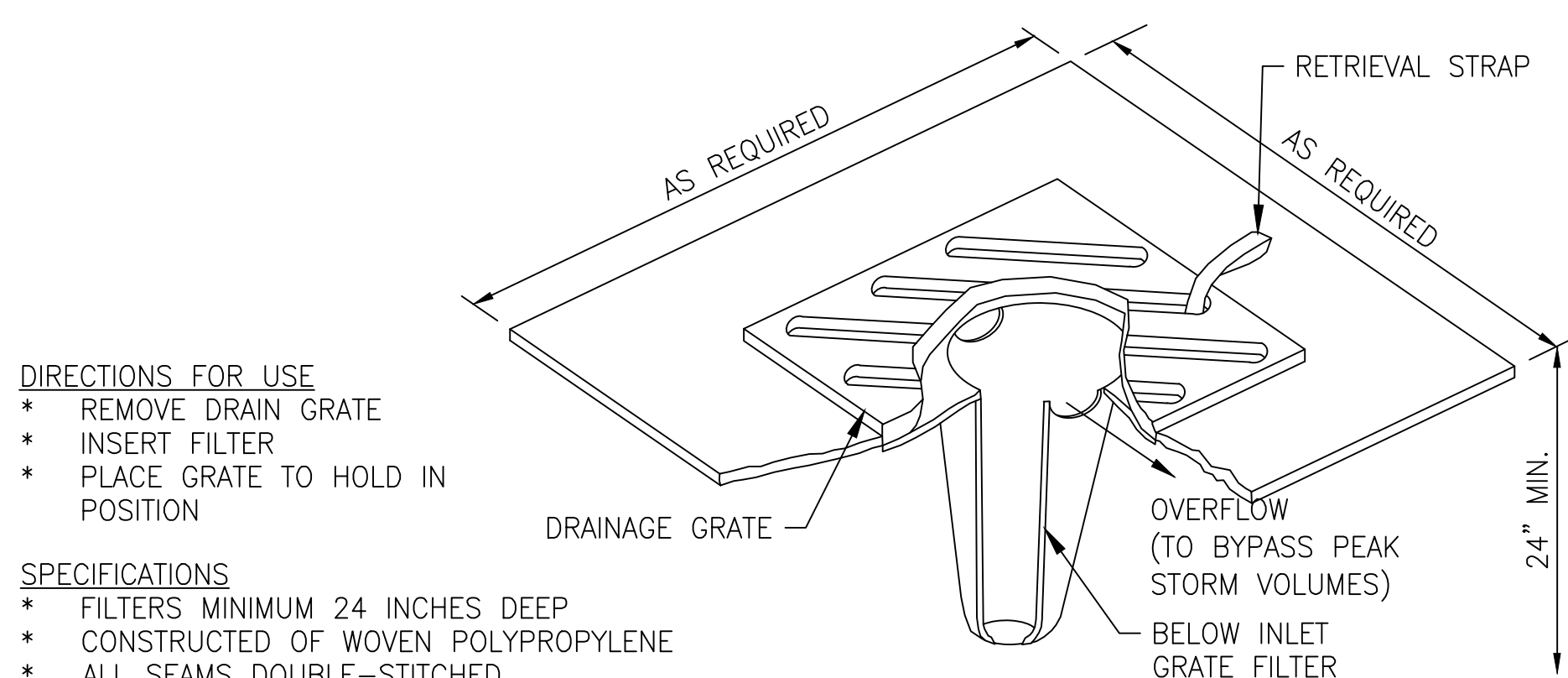
SHEET:  
**C4.0**

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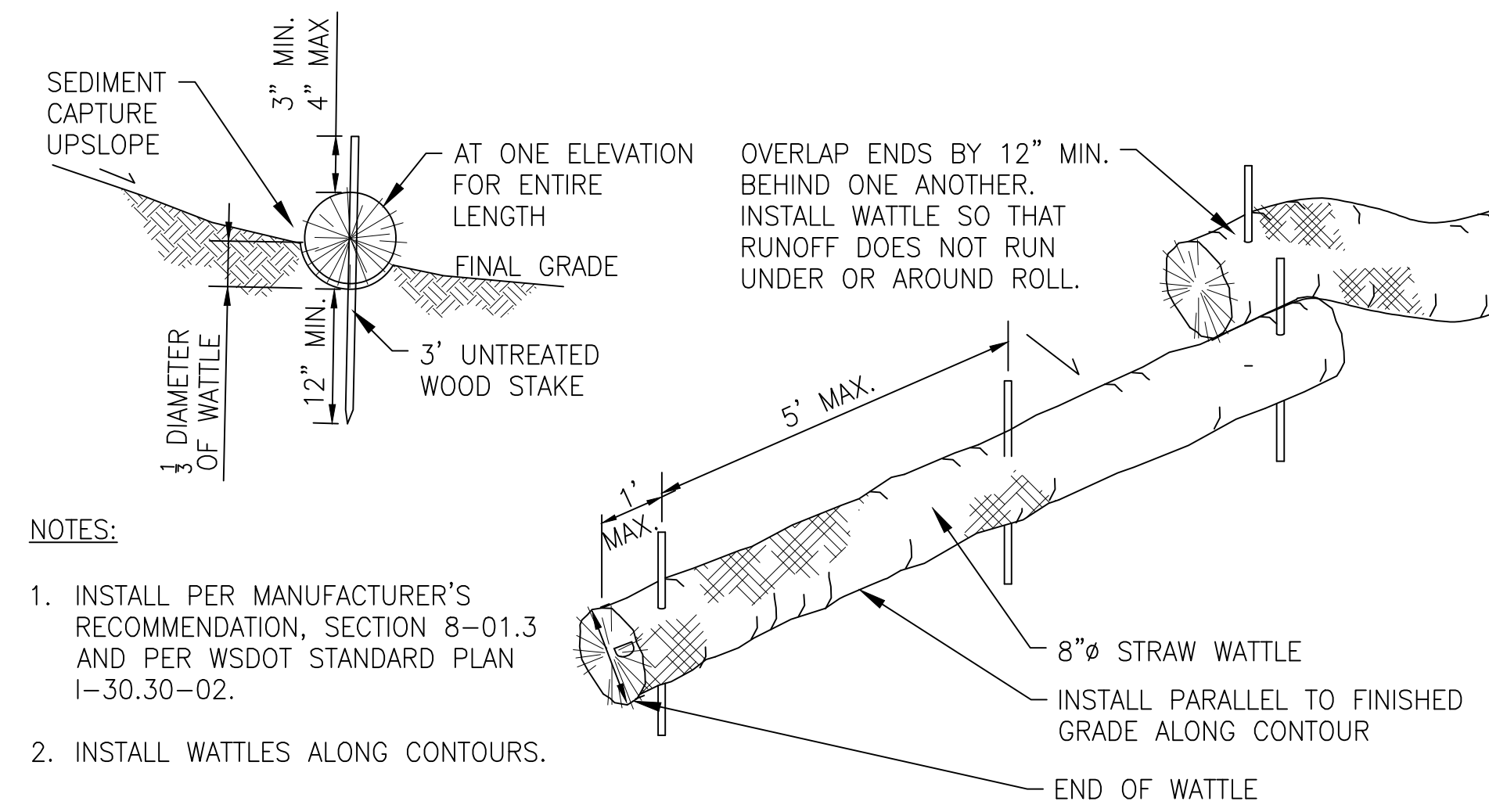






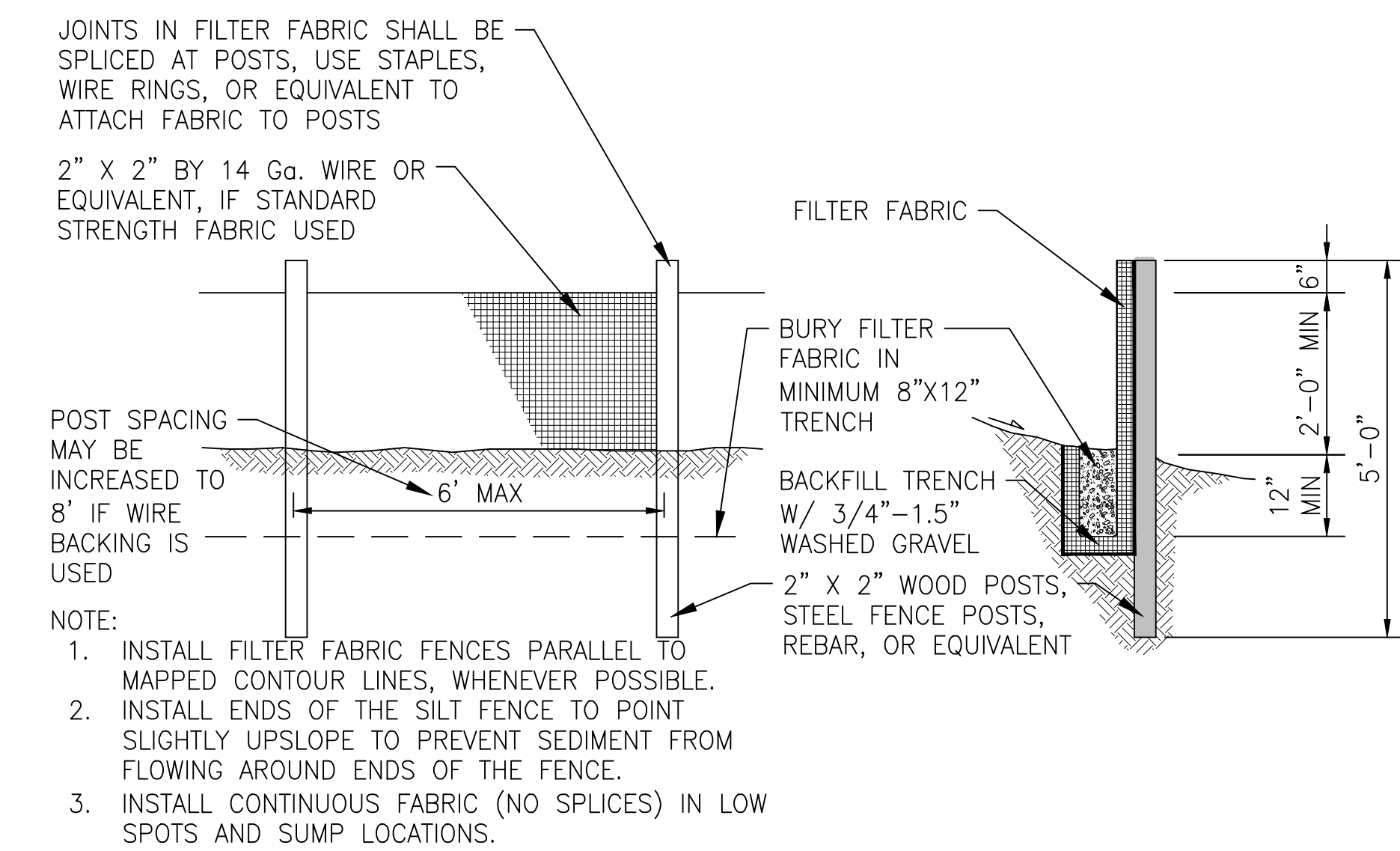
- DIRECTIONS FOR USE**
- REMOVE DRAIN GRATE
  - INSERT FILTER
  - PLACE GRATE TO HOLD IN POSITION
- SPECIFICATIONS**
- FILTERS MINIMUM 24 INCHES DEEP
  - CONSTRUCTED OF WOVEN POLYPROPYLENE
  - ALL SEAMS DOUBLE-STITCHED
  - PERMEABILITY - 40 GALLON PER MINUTE PER SQUARE FOOT
  - REUSABLE OR THROW-AWAY
- MAINTENANCE**
- REMOVE WHEN FILLED TO HALF-WAY MARK (USE FRONT LOADER OR OTHER EQUIPMENT FOR REMOVAL)
  - CLEAN AND RE-USE, OR REPLACE

Catch Basin Protection <sup>NTS</sup> 1



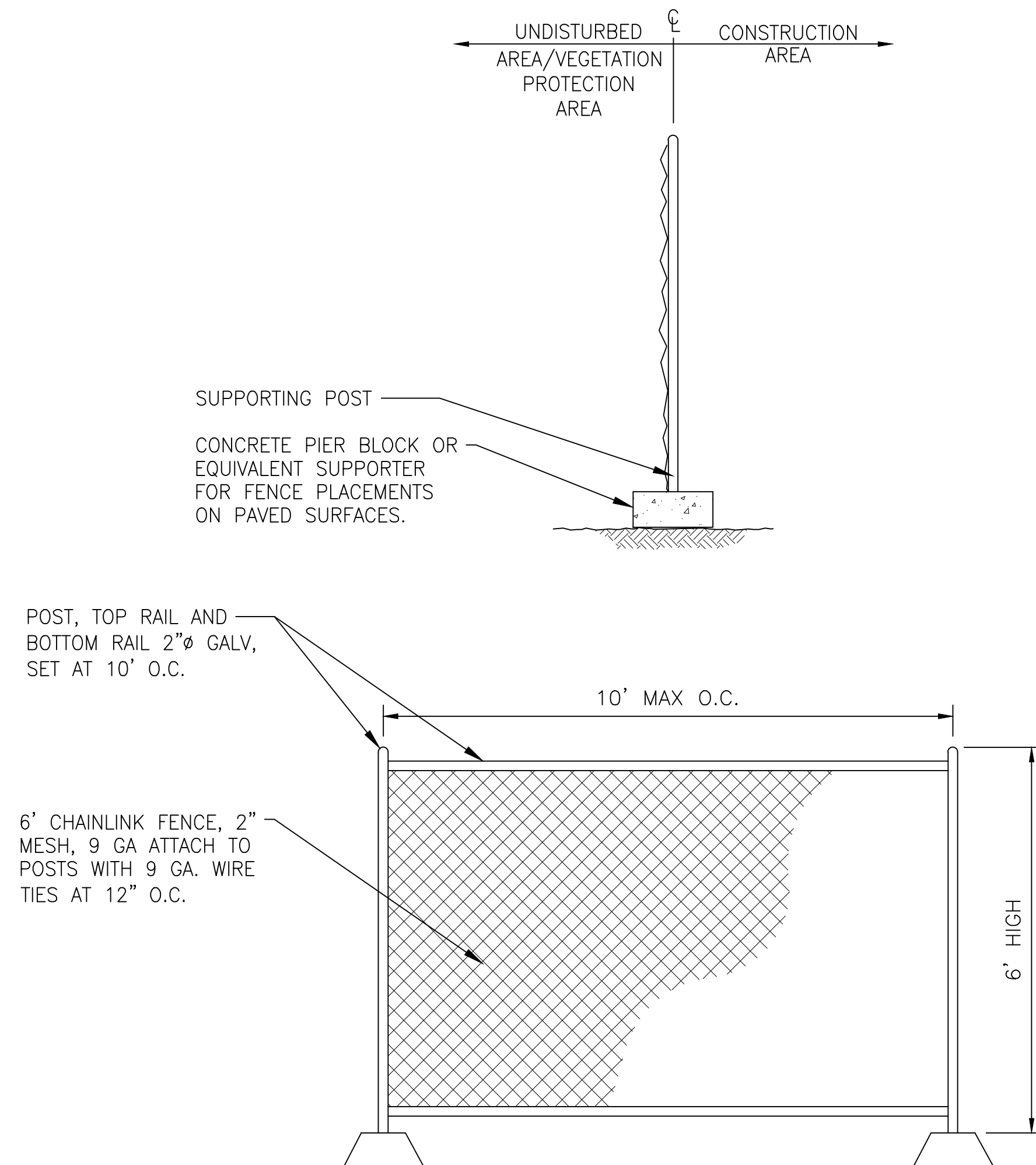
- NOTES:**
1. INSTALL PER MANUFACTURER'S RECOMMENDATION, SECTION 8-01.3 AND PER WSDOT STANDARD PLAN I-30.30-02.
  2. INSTALL WATTLES ALONG CONTOURS.

Straw Wattle <sup>NTS</sup> 2



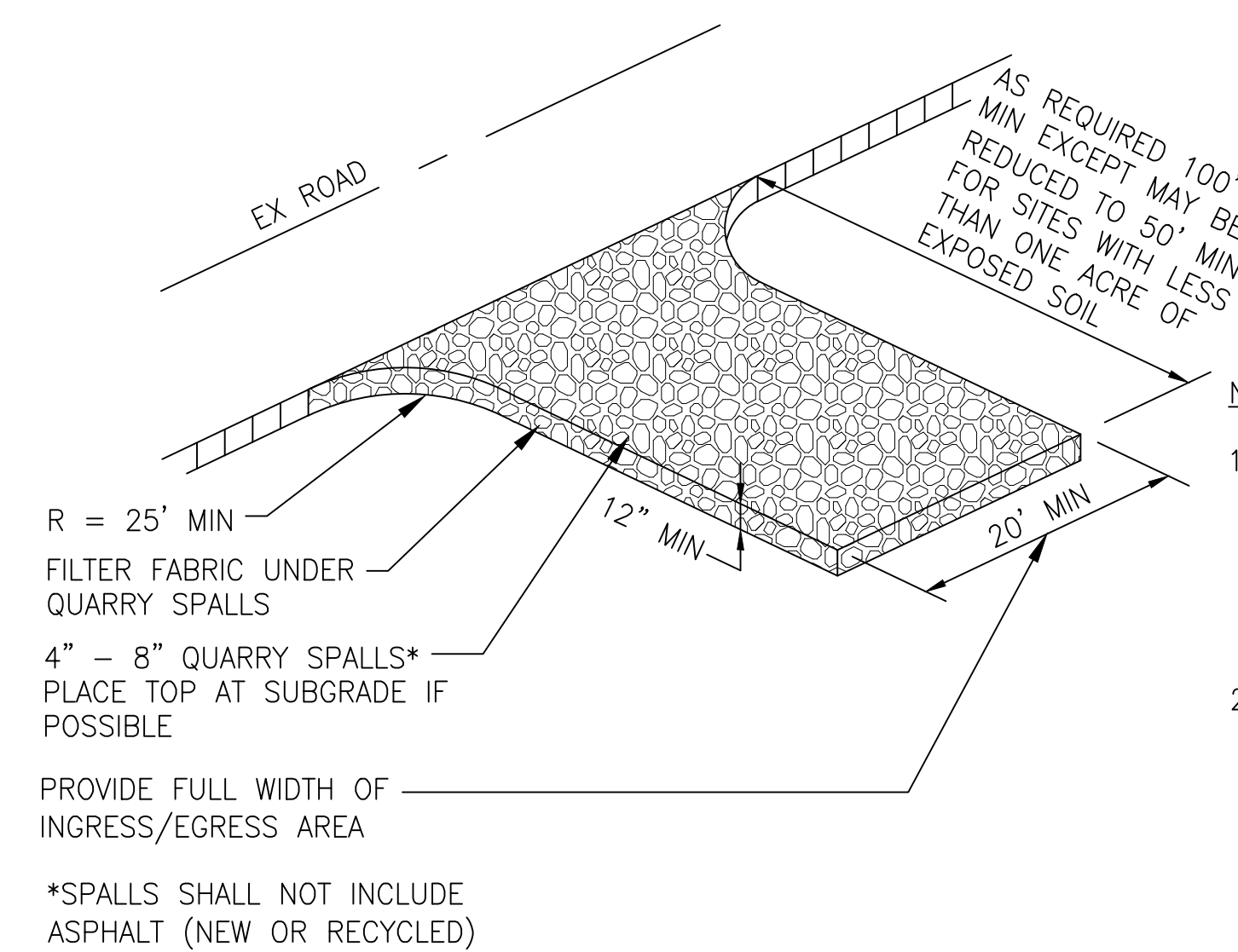
- NOTE:**
1. INSTALL FILTER FABRIC FENCES PARALLEL TO MAPPED CONTOUR LINES, WHENEVER POSSIBLE.
  2. INSTALL ENDS OF THE SILT FENCE TO POINT SLIGHTLY UPSLOPE TO PREVENT SEDIMENT FROM FLOWING AROUND ENDS OF THE FENCE.
  3. INSTALL CONTINUOUS FABRIC (NO SPLICES) IN LOW SPOTS AND SUMP LOCATIONS.

Silt Fence <sup>NTS</sup> 3



- NOTES:**
1. SECURE PANELS TO ONE ANOTHER VIA MECHANICAL FASTENERS AT THE POSTS. A MINIMUM OF TWO FASTENERS PER SET OF POSTS.

Not Used <sup>NTS</sup> 4



- NOTES:**
1. CONSTRUCTION STORMWATER RUNOFF FROM ENTRANCE SHALL BE DIVERTED TO ON-SITE CONSTRUCTION STORMWATER TREATMENT.
  2. PROVIDE PORTABLE WHEEL WASH WHEN NEEDED TO AVOID TRACKING OF SEDIMENT OFF-SITE. SEE SPECIFICATIONS FOR WHEEL WASH.
- \*SPALLS SHALL NOT INCLUDE ASPHALT (NEW OR RECYCLED)

Stabilized Construction Entrance <sup>NTS</sup> 6

Construction Fencing Detail <sup>NTS</sup> 5

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**PLANT SCHEDULE**

	SIZE	QUANTITY
<b>TREES</b>		
ACER RUBRUM 'KARPICK' KARPICK MAPLE	3" CAL B&B	3
AMELANCHIER 'AUTUMN BRILLANCE' AUTUMN BRILLANCE SERVICEBERRY	15 GAL	7
NYSSA SYLVATICA TUPELO	3" CAL B&B	13
ACER CIRCINATUM VINE MAPLE	1.5" CAL B&B	3
GINKGO BILOBA 'PRINCETON SENTRY' PRINCETON SENTRY GINKGO	3" CAL B&B	6
PSEUDOTSUGA MENZIESII DOUGLAS FIR	B&B	22
<b>PLANT ZONES</b>		
NATIVE REVEGETATION PART SHADE	1	3,789 SF
NATIVE REVEGETATION FULL SUN	2	10,168 SF
ACCENT PLANTING PART SHADE	3	3,871 SF
ACCENT PLANTING FULL SUN	4	3,454 SF
PARKING LOT PLANTING FULL SUN	5	5,721 SF
BIOSWALE PLANTING	6	8,254 SF
<b>GROUNDCOVER</b>		
TURF GRASS HYDROSEED	10	10,496 SF

**MATERIAL LEGEND**

	QUANTITY
ASPHALT PAVING 4" HMA OVER 4" BASE (REFER TO CIVIL)	23,300 SF
CONCRETE PAVING 4" DEPTH AT PEDESTRIAN ZONES 6" DEPTH AT VEHICULAR ZONES	9,705 SF
CRUSHED ROCK PATHWAY 6" DEPTH CRUSHED SURFACING TOP COURSE	834 SF
CRUSHED ROCK PATHWAY (BY OWNER)	

- KEYNOTES**
- PROPERTY LINE
  - WETLAND BUFFER
  - WETLAND
  - EXISTING TREES PROTECT IN PLACE
  - GAME LAWN
  - OPEN LAWN AREA
  - RETAINING WALL - 18" HT. SEE DETAIL 3 / L3.0
  - CONCRETE LANDING PAD AT RAMP
  - ADA PARKING
  - WHEEL STOP
  - REMOVABLE BOLLARD
  - BIKE PARKING
  - WALKING TRAIL (BY OWNER)
  - SITE FURNISHINGS (BY OWNER)
  - TRASH - 2YD DUMPSTER
  - TRANSFORMER (VERIFY LOCATION & CLEARANCES)
  - RAISED PLANTER AT GAME LAWN
  - SLOPED PATHWAY TO LAWN (2% SLOPE)
  - FENCED ENCLOSURE AROUND LAWN / BACKYARD

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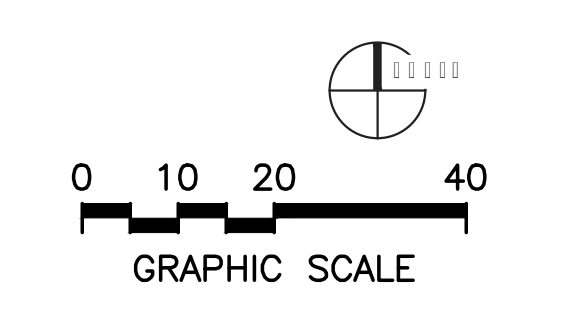
**REVISION SCHEDULE**

Rev #	Date	Description

**OVERALL  
LANDSCAPE PLAN**

DATE	BY	DESCRIPTION

**L1.0**





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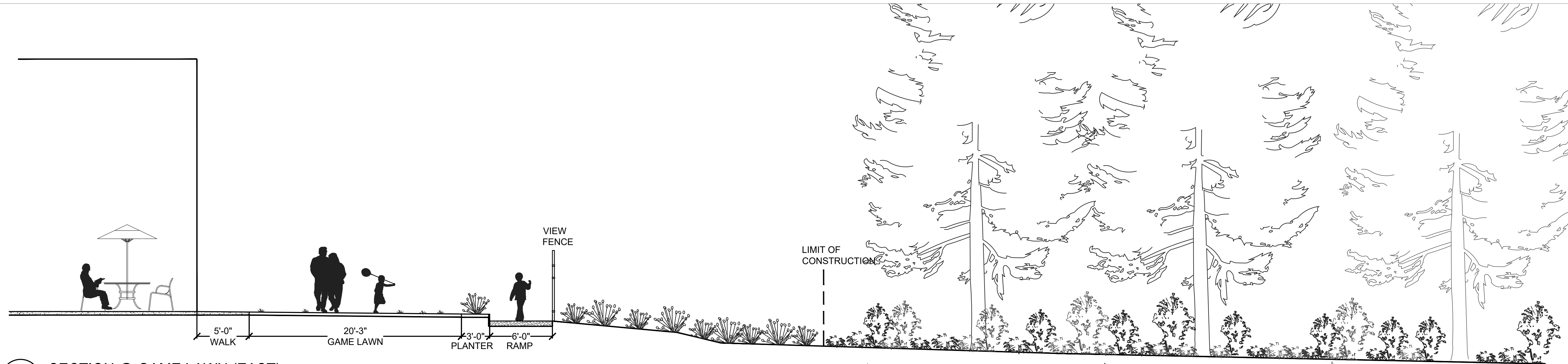
ISSUE DATE: DECEMBER 01, 2023

REVISION SCHEDULE		
Rev #	Date	Description

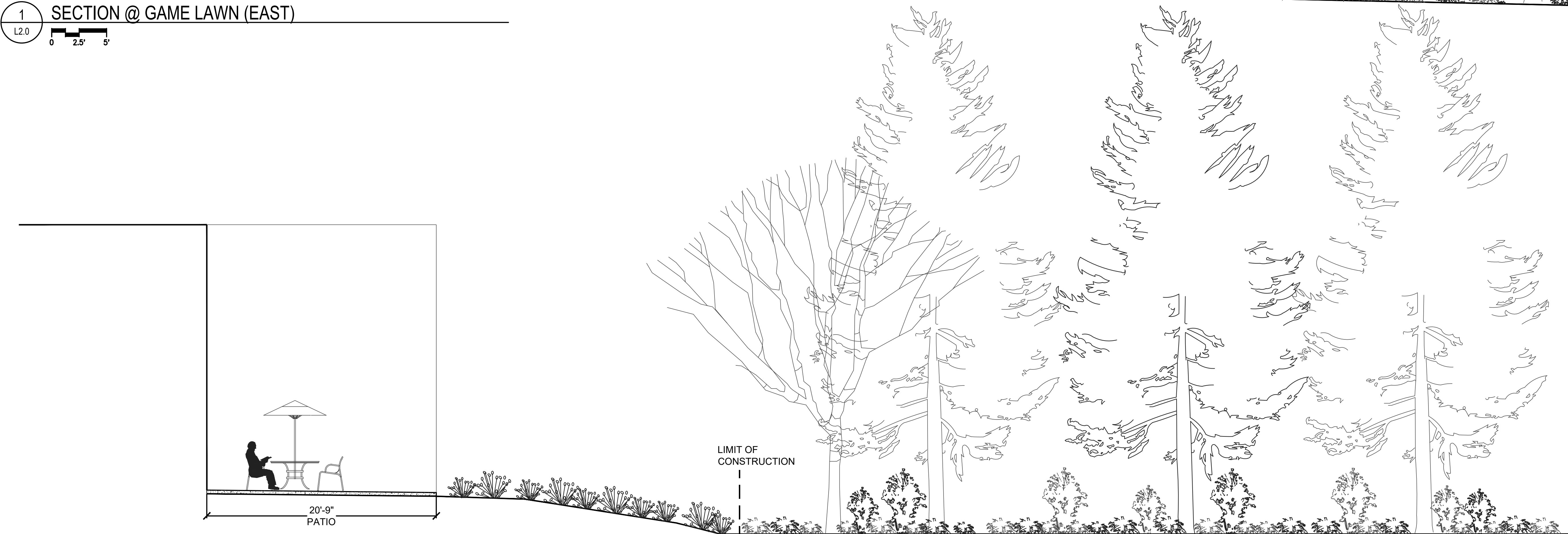
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**LANDSCAPE  
 SECTIONS**

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 DRAWN: MF  
 CHECKED:  
 PROJECT NO: 2022021.000

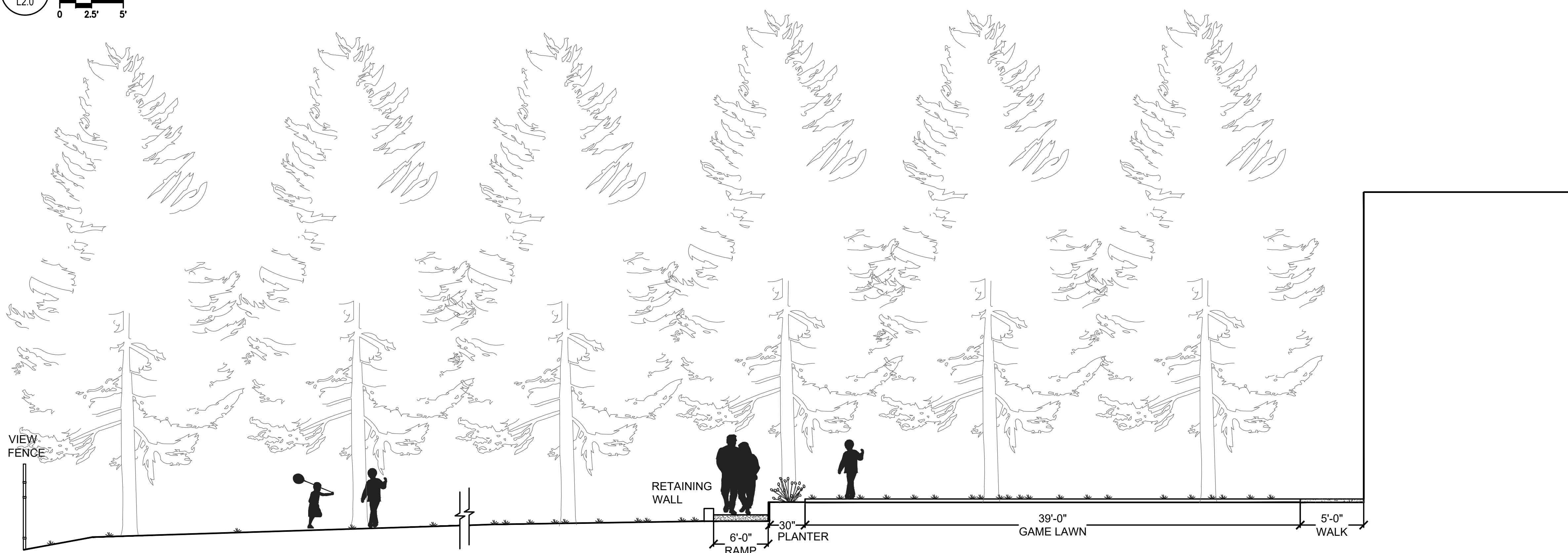
SHEET:  
**L2.0**



**1 SECTION @ GAME LAWN (EAST)**  
 L2.0  
 0 2.5' 5'



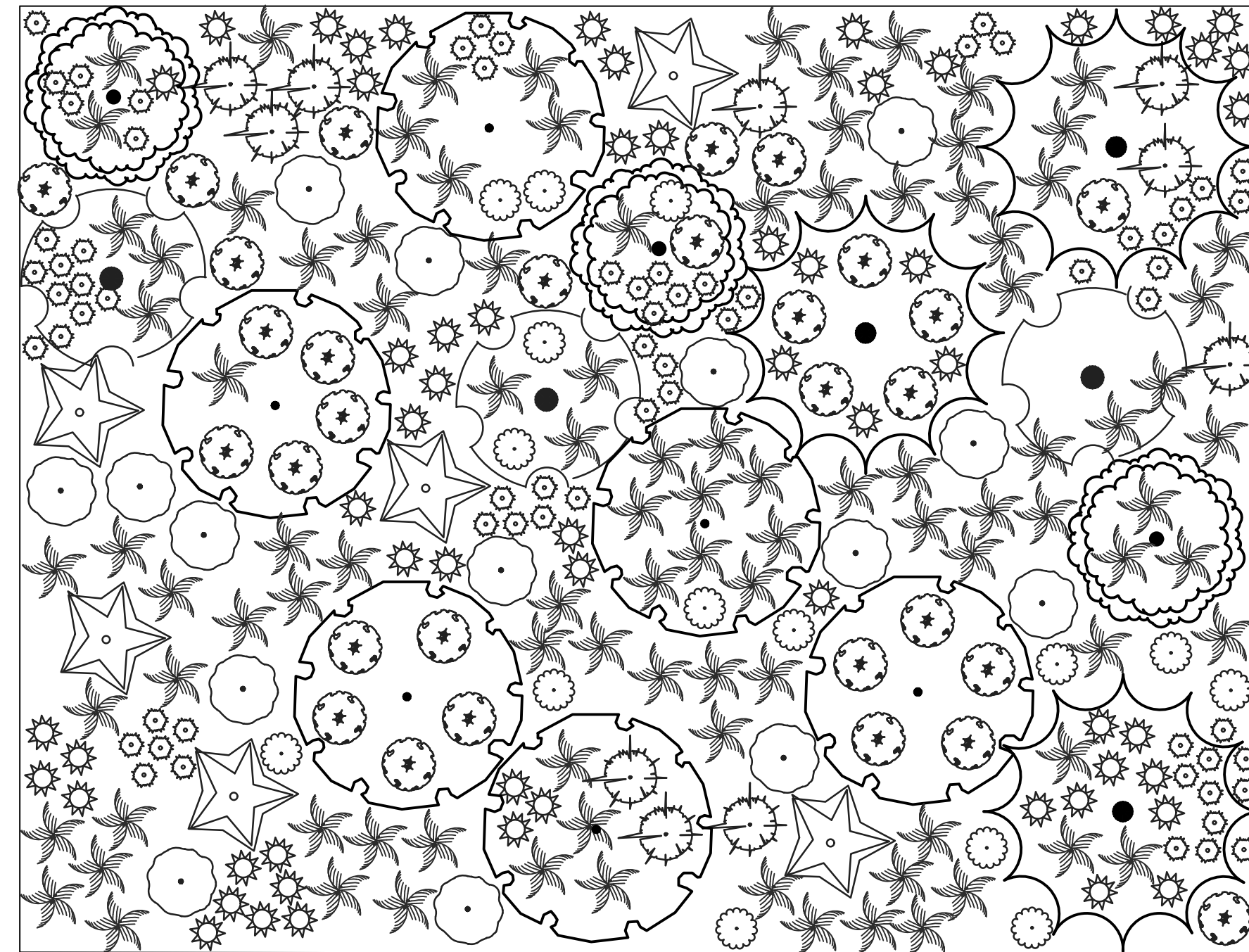
**2 SECTION @ PATIO (EAST)**  
 L2.0  
 0 2.5' 5'



**3 SECTION @ PATIO (SOUTH LAWN)**  
 L2.0  
 0 2.5' 5'



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NOT FOR  
CONSTRUCTION

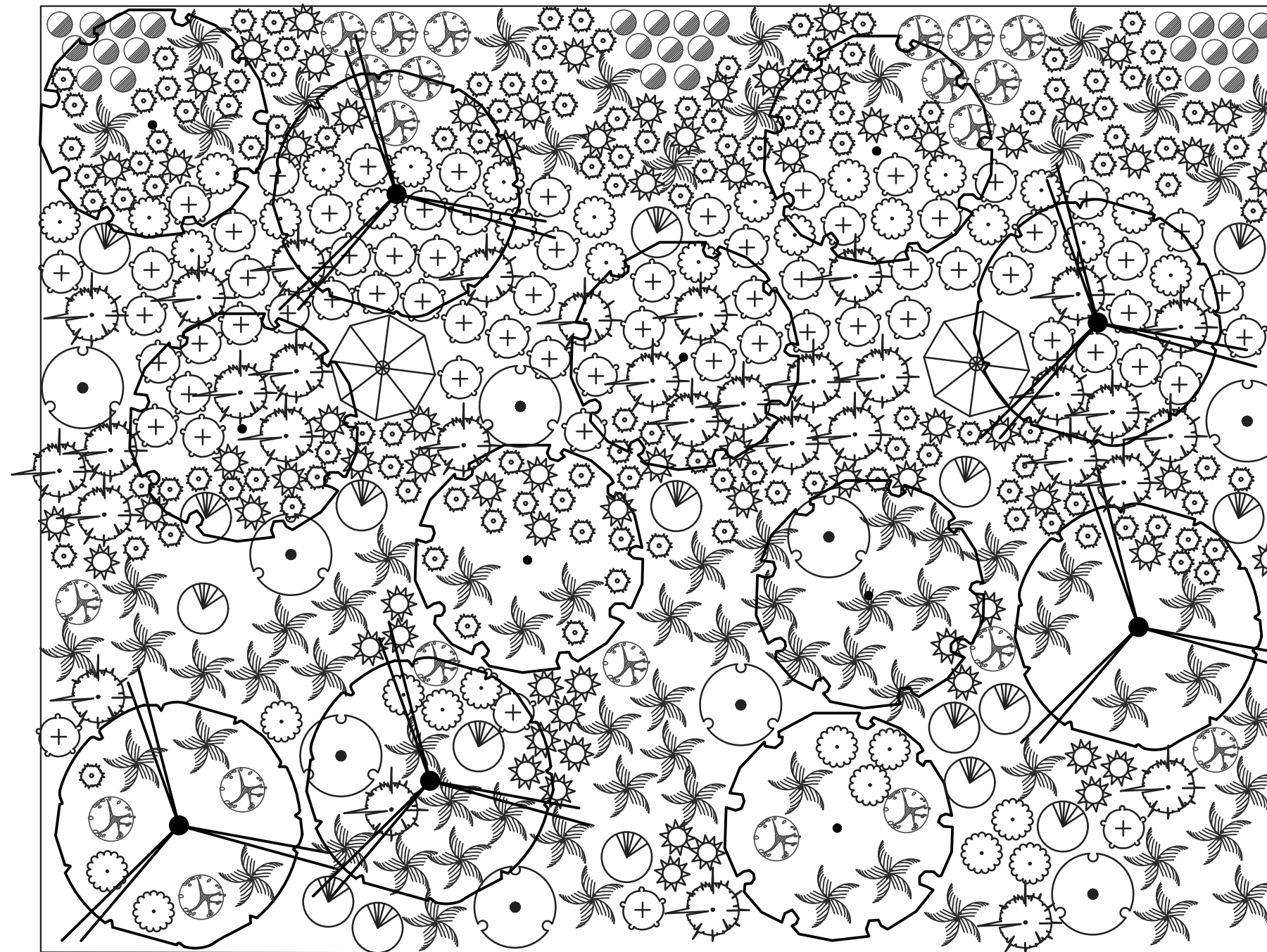


1 NATIVE REVEGETATION - PART SHADE - PLANTING LAYOUT  
L2.1 0 3' 6' 12'

PLANT SCHEDULE

	SIZE	QUANTITY
ACER CIRCINATUM VINE MAPLE	2 GAL	3
PSEUDOTSUGA MENZIESII DOUGLAS FIR	2 GAL	6
THUJA PLICATA RED CEDAR	2 GAL	3
<b>SHRUBS</b>		
AMELANCHIER ALNIFOLIA SASKATOON SERVICEBERRY	1 GAL	6
BERBERIS AQUIFOLIUM TALL OREGON GRAPE	1 GAL	10
GAULTHERIA SHALLON SALAL	1 GAL	30
MAHONIA NERVOSA CASCADE BARBERRY	1 GAL	67
MAHONIA REPENS CREEPING OREGON GRAPE	1 GAL	59
RHODODENDRON MACROPHYLLUM PACIFIC RHODODENDRON	1 GAL	3
SYMPHORICARPOS ALBUS SNOWBERRY	1 GAL	25
VACCINIUM OVATUM EVERGREEN HUCKLEBERRY	1 GAL	15
<b>PERENNIALS</b>		
POLYSTICHUM MUNITUM SWORD FERN	1 GAL	115

**NOTE:**  
AVERAGE SPACING = 5.40' ON CENTER

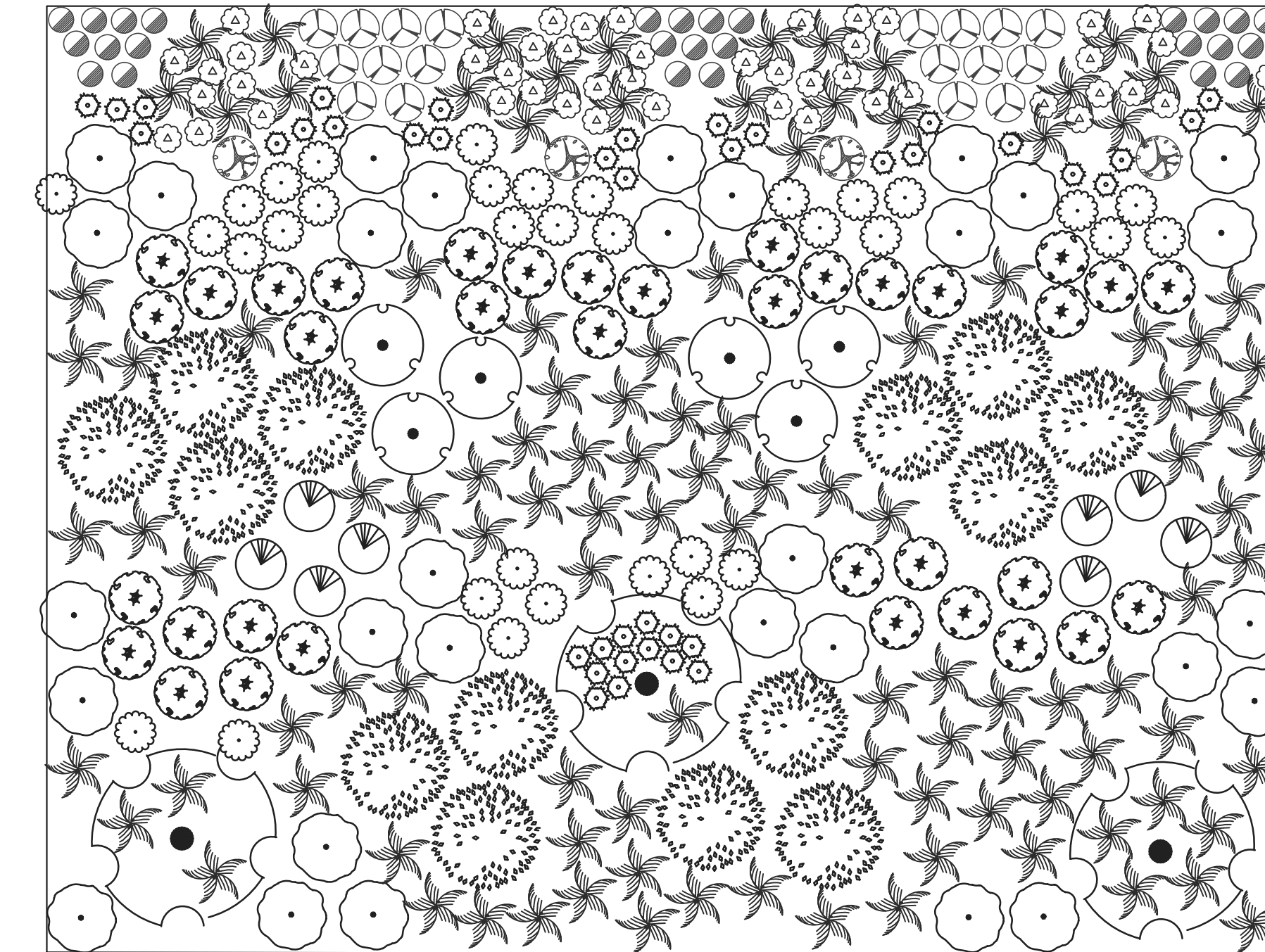


2 NATIVE REVEGETATION - FULL SUN - PLANTING LAYOUT  
L2.1 0 3' 6' 12'

PLANT SCHEDULE

	SIZE	QUANTITY
<b>TREES</b>		
PINUS CORTORTA SHORE PINE	2 GAL	5
PSEUDOTSUGA MENZIESII DOUGLAS FIR	2 GAL	7
<b>SHRUBS</b>		
BERBERIS AQUIFOLIUM TALL OREGON GRAPE	1 GAL	34
HOLODISCUS DISCOLOR OCEAN SPRAY	1 GAL	17
MAHONIA NERVOSA CASCADE BARBERRY	1 GAL	132
MAHONIA REPENS CREEPING OREGON GRAPE	1 GAL	75
PHILADELPHUS LEWISII MOCK ORANGE	1 GAL	9
RIBES SANGUINEUM RED FLOWERING CURRANT	1 GAL	2
ROSA NUTKANA NOOTKA ROSE	1 GAL	66
SYMPHORICARPOS ALBUS SNOWBERRY	1 GAL	35
<b>PERENNIALS / FERNS / GRASSES</b>		
POLYSTICHUM MUNITUM SWORD FERN	1 GAL	74
<b>GROUNDCOVER</b>		
ARCTOSTAPHYLOS UVA-URSI KINNIKINNICK	1 GAL	22
FRAGARIA CHILOENSIS BEACH STRAWBERRY	1 GAL	27

**NOTE:**  
AVERAGE SPACING = 4.28' ON CENTER



3 ACCENT PLANTING - PART SHADE - PLANTING LAYOUT  
L2.1 0 3' 6' 12'

PLANT SCHEDULE

	SIZE	QUANTITY
<b>SHRUBS</b>		
CORNUS SERICEA RED OSIER DOGWOOD	1 GAL	
GAULTHERIA SHALLON SALAL	1 GAL	14
HOLODISCUS DISCOLOR OCEAN SPRAY	1 GAL	38
PHILADELPHUS LEWISII MOCK ORANGE	1 GAL	3
RHODODENDRON MACROPHYLLUM PACIFIC RHODODENDRON	1 GAL	6
SYMPHORICARPOS ALBUS SNOWBERRY	1 GAL	3
VACCINIUM OVATUM EVERGREEN HUCKLEBERRY	1 GAL	34
RHODODENDRON MACROPHYLLUM PACIFIC RHODODENDRON	1 GAL	31
<b>PERENNIALS / FERNS / GRASSES</b>		
ASARUM CAUDATUM WILD GINGER	1 GAL	
POLYSTICHUM MUNITUM SWORD FERN	1 GAL	48
<b>GROUNDCOVER</b>		119
ARCTOSTAPHYLOS UVA-URSI KINNIKINNICK	1 GAL	
FRAGARIA CHILOENSIS BEACH STRAWBERRY	1 GAL	4
OXALIS OREGANA RED WOOD SORREL	1 GAL	27
		18

**NOTE:**  
AVERAGE SPACING = 4.93' ON CENTER

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CONTENTS:  
LANDSCAPE  
PLANTING DETAILS

SCALE: As Indicated  
DRAWN: MF  
CHECKED:  
PROJECT NO: 2022021.000

SHEET:  
L2.1



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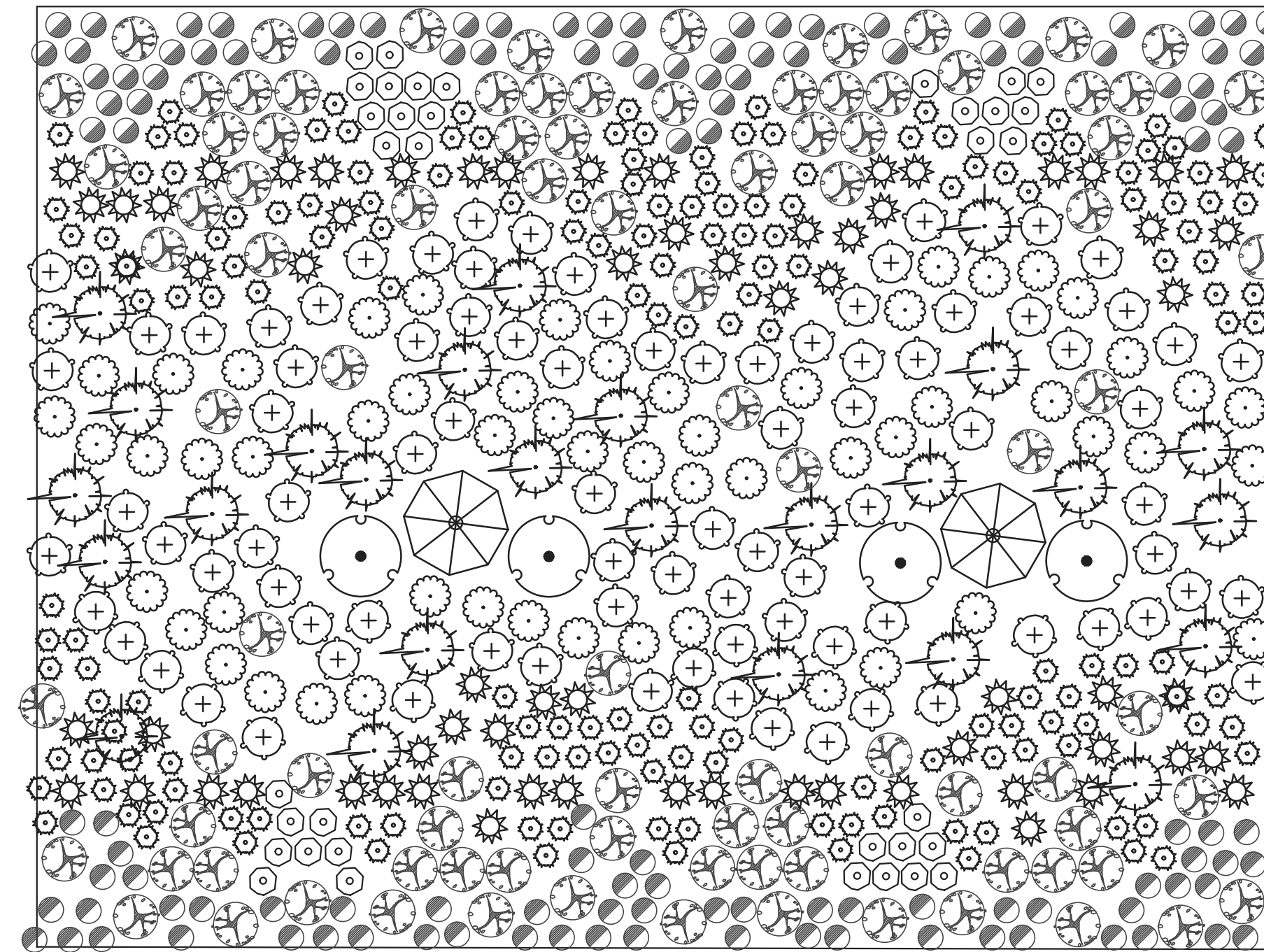
ISSUE DATE: DECEMBER 01, 2023

REVISION SCHEDULE		
Rev #	Date	Description

CONTENTS:  
LANDSCAPE  
PLANTING DETAILS

SCALE: As Indicated  
DRAWN: MF  
CHECKED:  
PROJECT NO: 2022021.000

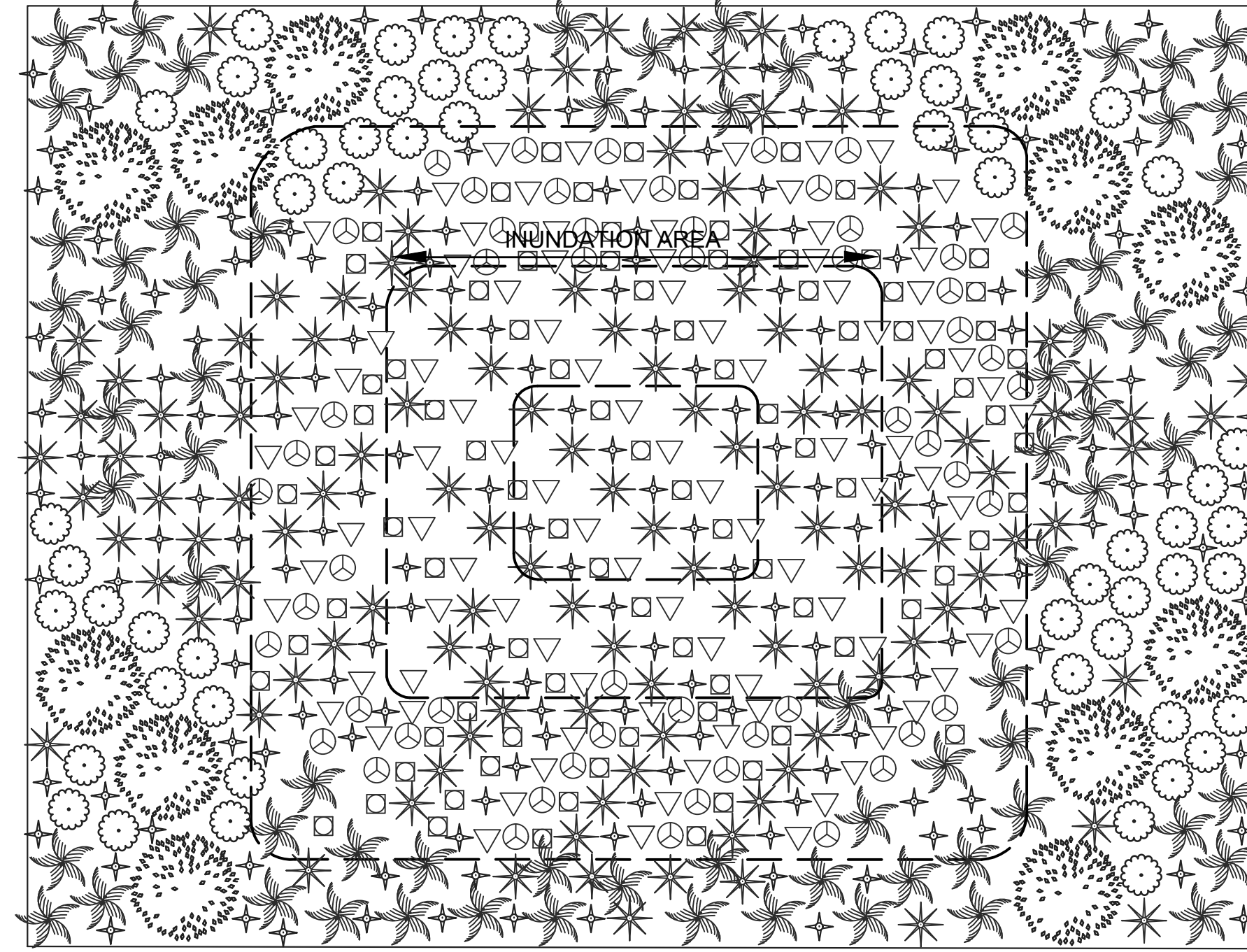
SHEET:  
L2.2



4 ACCENT PLANTING - FULL SUN - PLANTING LAYOUT

L2.2  
0 3' 6' 12'

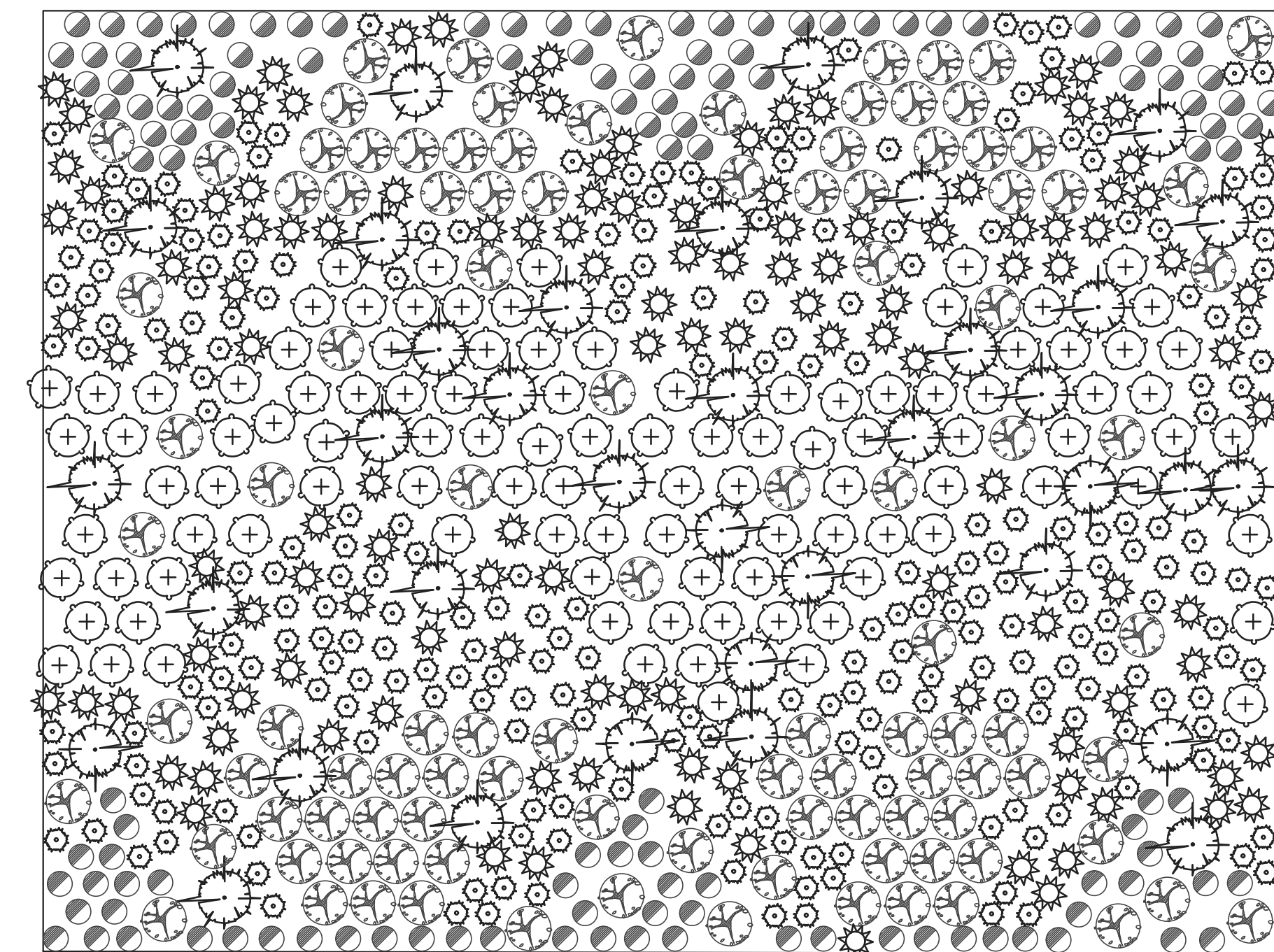
PLANT SCHEDULE	SIZE	QUANTITY
<b>SHRUBS</b>		
BERBERIS AQUIFOLIUM	1 GAL	26
TALL OREGON GRAPE		
MAHONIA NERVOSA	1 GAL	173
CASCADE BARBERRY		
MAHONIA REPENS	1 GAL	73
CREEPING OREGON GRAPE		
PHILADELPHUS LEWISII	1 GAL	4
MOCK ORANGE		
RIBES SANGUINEUM	1 GAL	2
RED FLOWERING CURRANT		
SYMPHORICARPOS ALBUS	1 GAL	57
SNOWBERRY		
ROSA NUTKANA	1 GAL	88
NOOTKA ROSE		
<b>PERENNIALS / FERNS / GRASSES</b>		
AQUILEGIA FORMOSA	1 GAL	35
WESTERN RED COLUMBINE		
<b>GROUNDCOVER</b>		
ARCTOSTAPHYLOS UVA-URSI	1 GAL	94
KINNICKINICK		
FRAGARIA VIRGINIANA	1 GAL	121
VIRGINIA STRAWBERRY		
<b>NOTE:</b> AVERAGE SPACING = 3.68' ON CENTER		



5 BIOSWALE PLANTING - PLANTING LAYOUT

L2.2  
0 3' 6' 12'

PLANT SCHEDULE	SIZE	QUANTITY
<b>SHRUBS</b>		
CORNUS SERICEA	1 GAL	12
RED OSIER DOGWOOD		
SYMPHORICARPOS ALBUS	1 GAL	56
SNOWBERRY		
<b>PERENNIALS / FERNS / GRASSES</b>		
CAREX DEWYANA	4" PLUG	185
DEWEY'S SEDGE		
CAREX PACHYSTACHA	4" PLUG	129
THICK-HEADED SEDGE		
DESCHAMPSIA CAESPITOSA	4" PLUG	88
TUFTED HAIRGRASS		
JUNCUS ENSIFOLIUS	1 GAL	92
DAGGER-LEAF RUSH		
CAMMASSIA GUAMASH	4" PLUG	55
COMMON CAMAS		
POLYSTICHUM MUNITUM	1 GAL	74
SWORD FERN		
<b>NOTE:</b> AVERAGE SPACING = 3.6' ON CENTER		

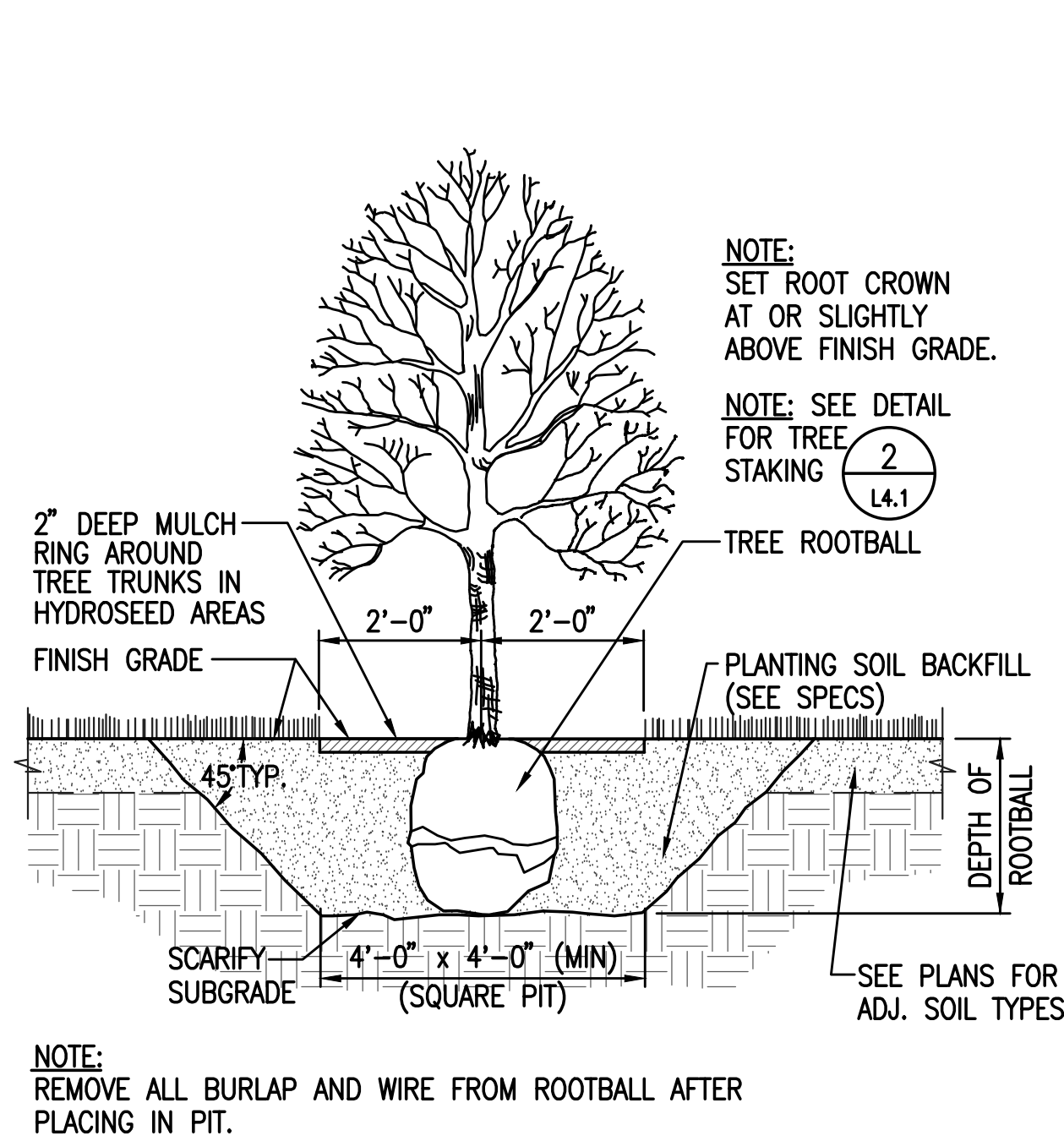


6 PARKING LOT PLANTING - PLANTING LAYOUT

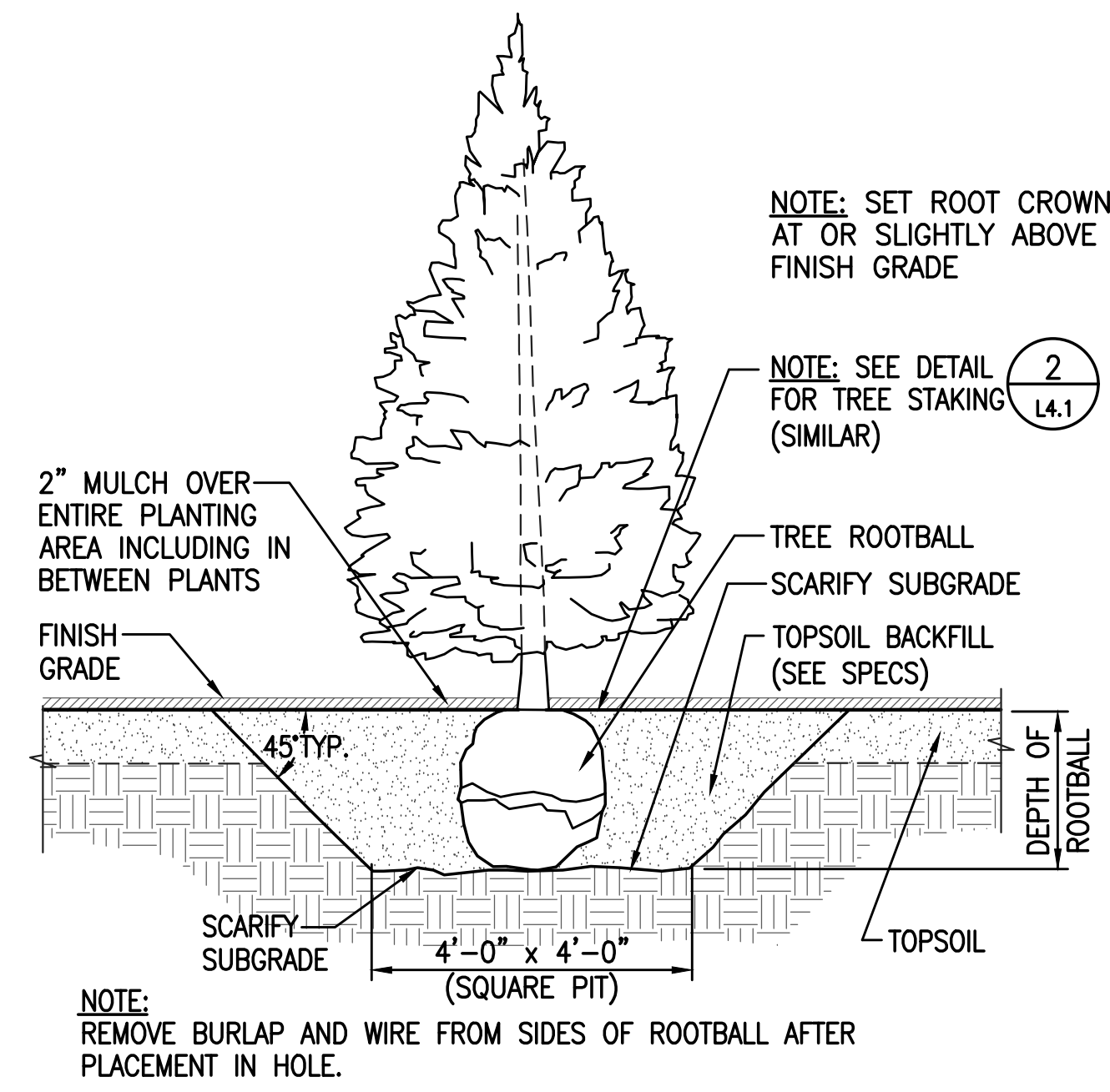
L2.2  
0 3' 6' 12'

PLANT SCHEDULE	SIZE	QUANTITY
<b>SHRUBS</b>		
BERBERIS AQUIFOLIUM	1 GAL	37
TALL OREGON GRAPE		
MAHONIA NERVOSA	1 GAL	242
CASCADE BARBERRY		
MAHONIA REPENS	1 GAL	126
CREEPING OREGON GRAPE		
ROSA NUTKANA	1 GAL	104
NOOTKA ROSE		
<b>PERENNIALS / FERNS / GRASSES</b>		
ARCTOSTAPHYLOS UVA-URSI	1 GAL	108
KINNICKINICK		
<b>GROUNDCOVER</b>		
FRAGARIA VIRGINIANA	1 GAL	126
VIRGINIA STRAWBERRY		
<b>NOTE:</b> AVERAGE SPACING = 3.50' ON CENTER		

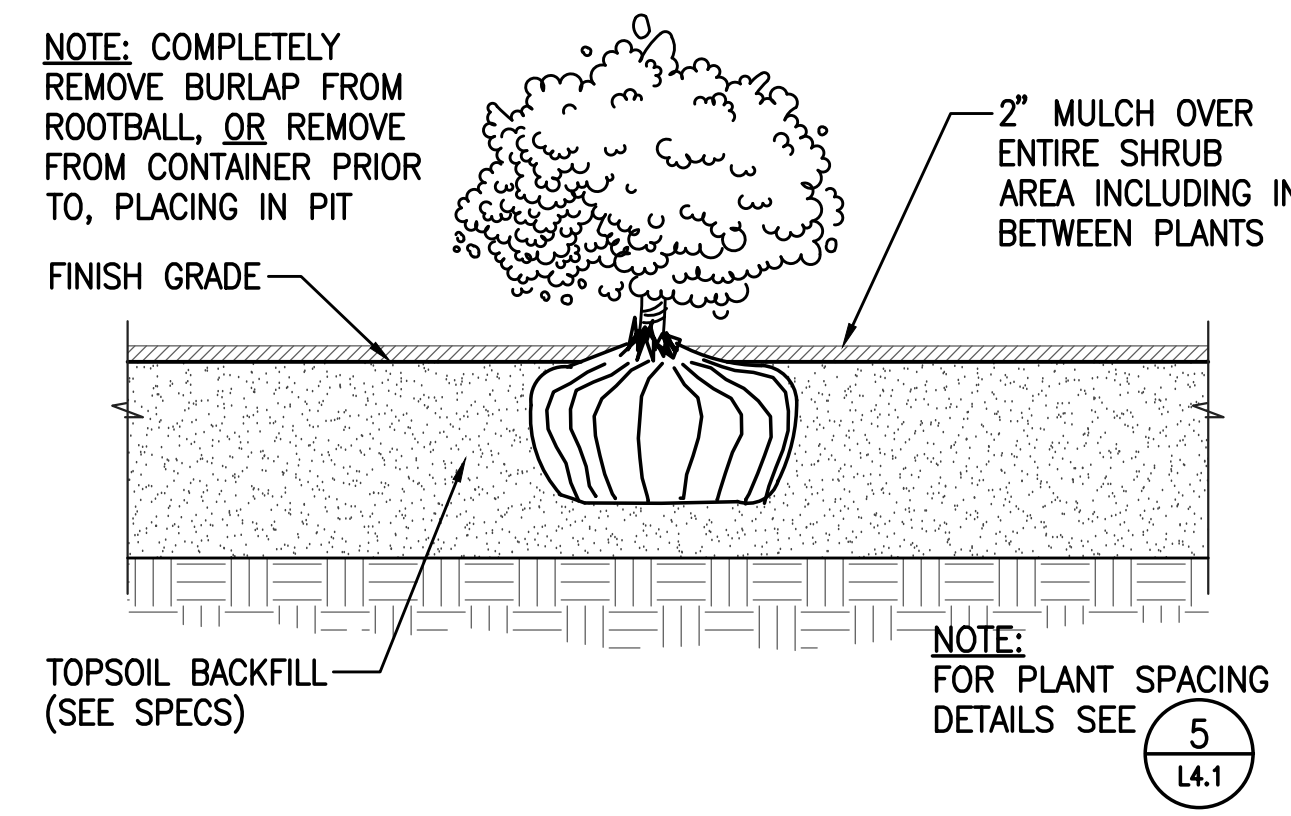




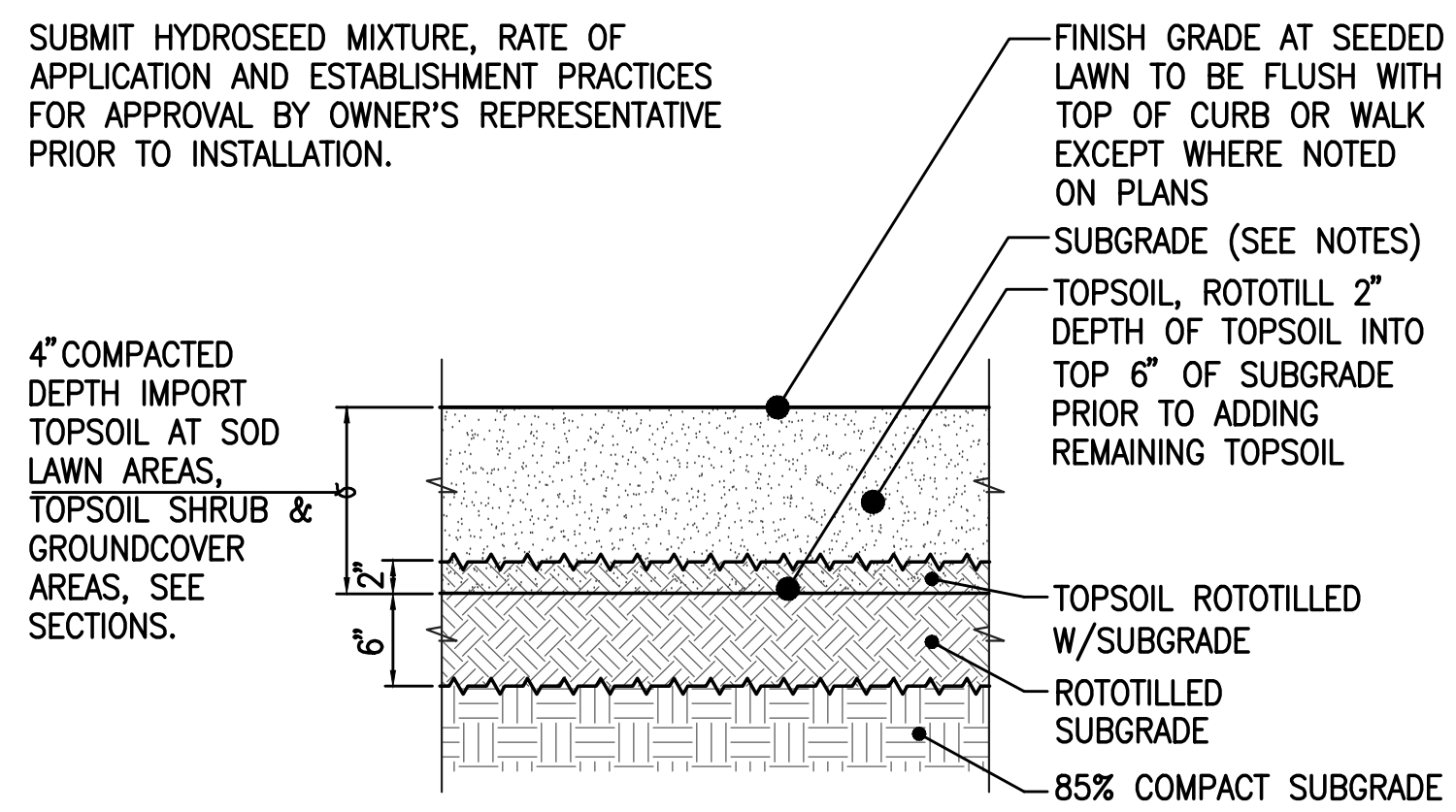
**7 DECIDUOUS TREE PLANTING DETAIL**  
L2.3 0 6' 12' 24'



**8 CONIFEROUS TREE PLANTING DETAIL**  
L2.3 0 6' 12' 24'



**9 SHRUB PLANTING DETAIL**  
L2.3 0 6' 12' 24'

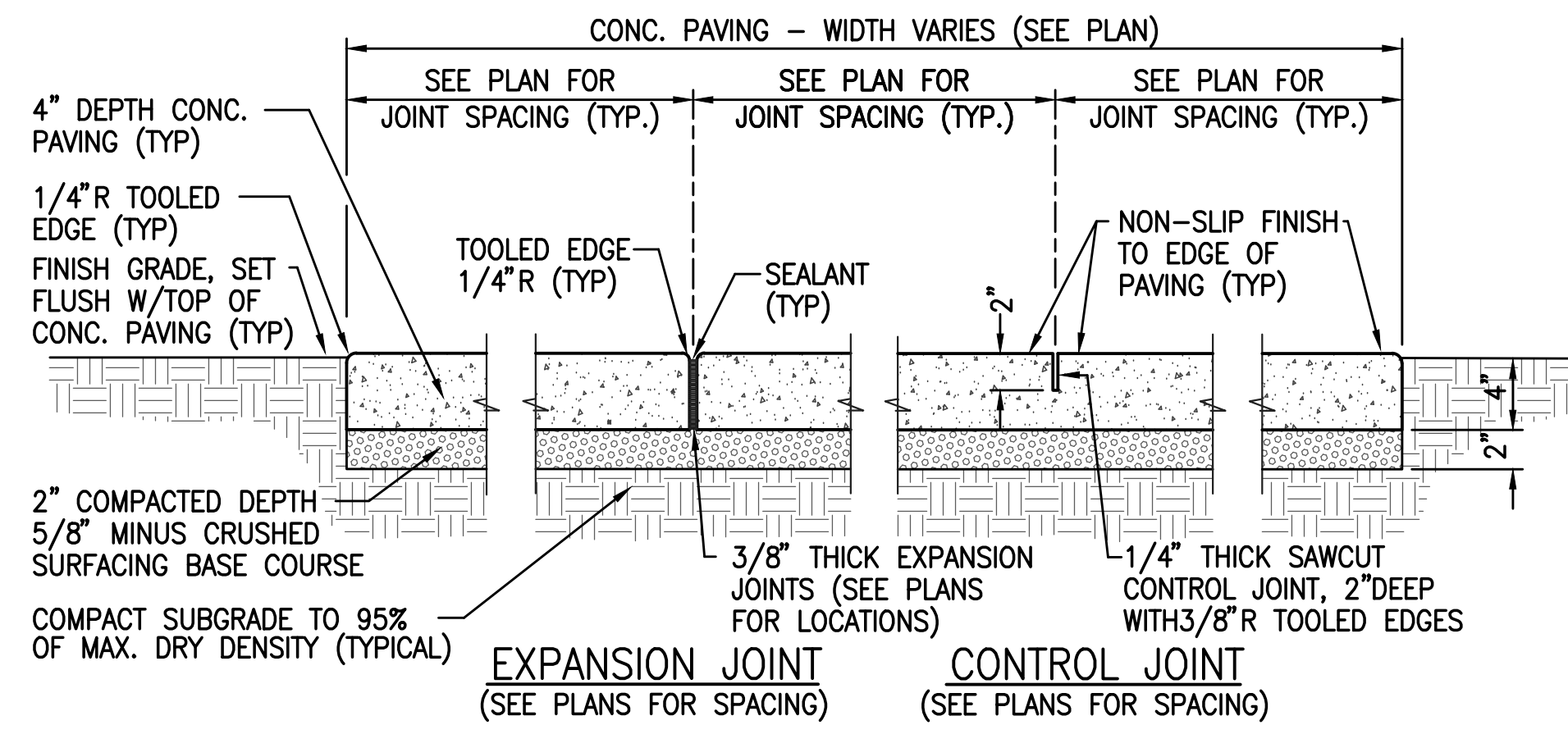


- TOPSOIL INSTALLATION NOTES:**
1. ROTOTILL SUBGRADE TO A 6" DEPTH.
  2. PRIOR TO INSTALLATION OF TOPSOIL, REMOVE ALL DEBRIS INCLUDING CEMENT, CONSTRUCTION DEBRIS, QUARRY SPALLS, AND OTHER MATERIALS DELETERIOUS TO PLANT GROWTH. OBTAIN APPROVAL OF FINISH SUBGRADE PRIOR TO PLACING TOPSOIL.
  3. FINISH SUBGRADE SHALL BE SMOOTH, UNIFORM, FREE OF RUTS OR TRACKS, AND SLOPED TO DRAIN AWAY FROM PAVED AREAS AND PATHS.

**10 LAWN TOPSOIL INSTALLATION SECTION**  
L2.3 0 3' 6' 12'

REVISION SCHEDULE		
Rev #	Date	Description

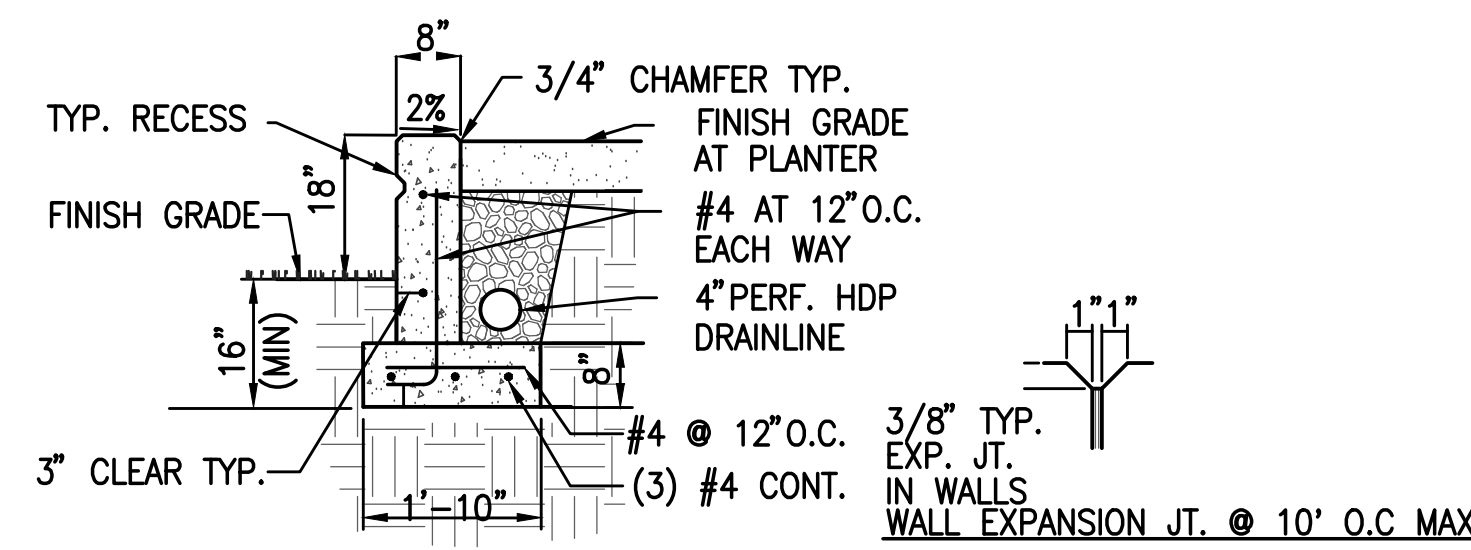




NOTE: ANY DAMAGE TO WALK SHALL BE REPAIRED BY REMOVING DAMAGED CONCRETE PAVING SECTIONS AT EXPANSION JOINT LINES AND REPLACING WITH NEW CONCRETE PAVING (NO PARTIAL PATCHING ALLOWED).

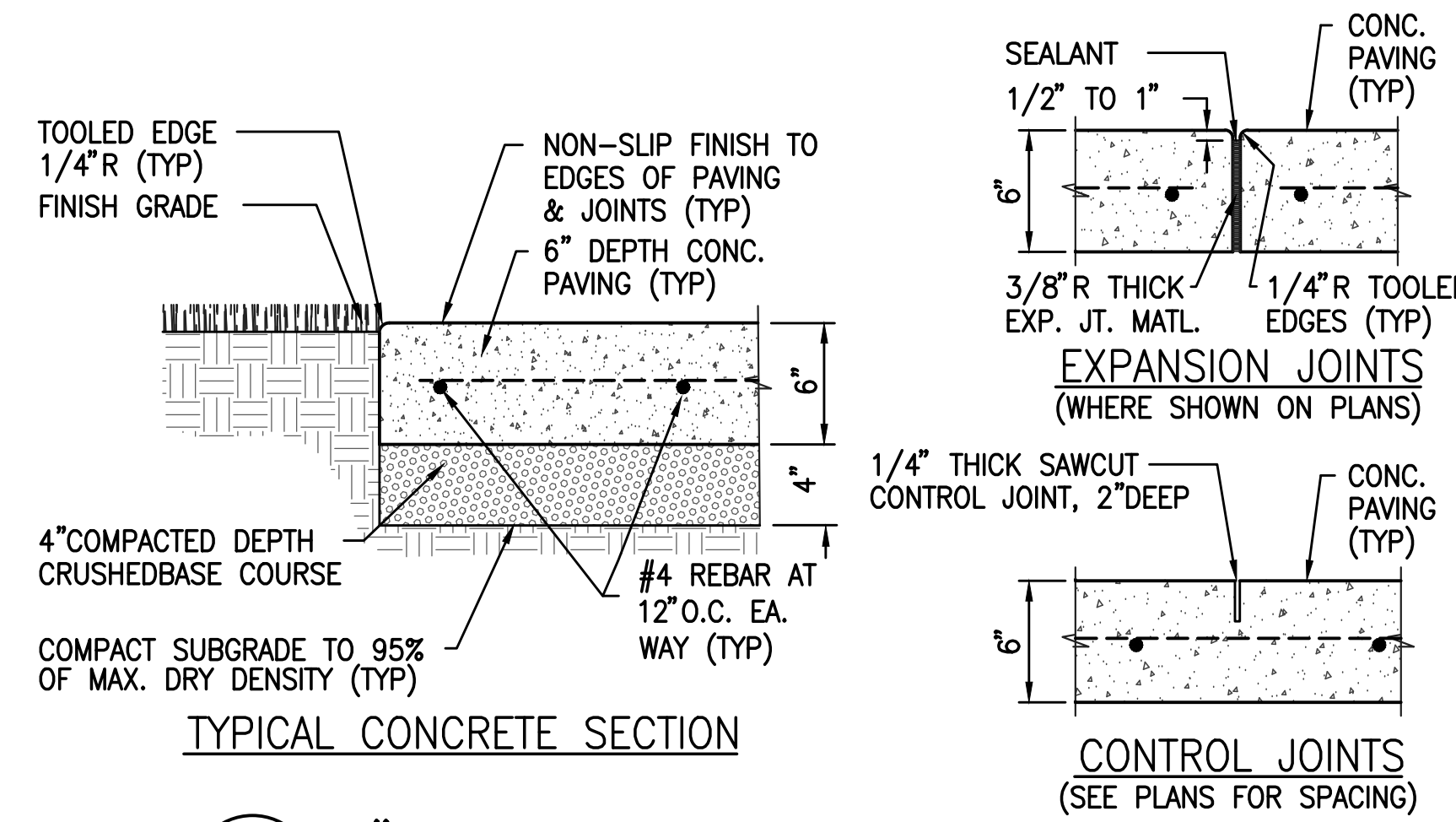
NOTE: COORDINATE JOINT LOCATIONS IN ABUTTING WALLS AND/OR CURBS WITH JOINTS IN CONCRETE PAVING (TYPICAL).

1 4" FIBER REINFORCED CONCRETE PAVING & JOINT DETAILS  
 L3.0 0 2' 4' 8' 1-1/2" = 1'-0"

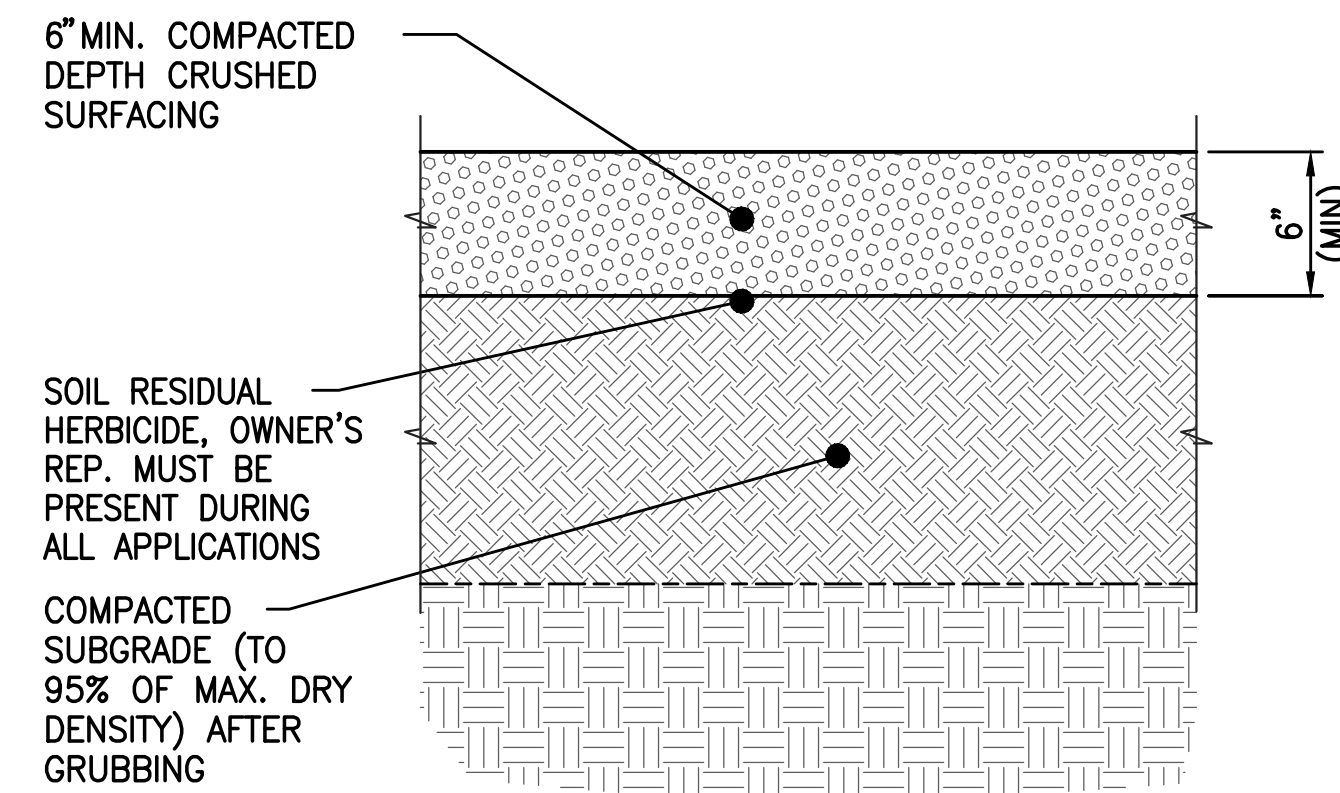


NOTE: RECESS ON SIDEWALK SIDE OF WALL

3 CONC RETAINING WALL ALONG UNION AVE  
 L3.0 0 6' 12' 24' 1/2" = 1'-0"



2 6" REINFORCED CONCRETE PAVING & JOINT DETAILS  
 L3.0 0 2' 4' 8' 1-1/2" = 1'-0"



4 CRUSHED SURFACING SECTION  
 L3.0 0 2' 4' 8' 1-1/2" = 1'-0"

- CONC. PAVING AND JOINT NOTES:
1. ANY DAMAGE TO WALK SHALL BE REPAIRED BY REMOVING DAMAGED CONCRETE PAVING SECTIONS AT EXPANSION JOINT LINES AND REPLACING WITH NEW CONCRETE PAVING (NO PARTIAL PATCHING ALLOWED).
  2. JOINT SPACING AS SHOWN ON LAYOUT & MATERIALS PLANS.
  3. COORDINATE JOINT LOCATIONS IN ABUTTING WALLS AND/OR CURBS WITH JOINTS IN CONCRETE PAVING (TYPICAL).
  4. WHEN A JOINT IS CLOSER THAN 12" TO A CASTING, ADJUST JOINT LOCATION TO ALIGN WITH OR MEET THE CASTING AT 90 DEGREES.
  5. PROVIDE ISOLATION/EXPANSION JOINTS AT ALL UTILITY APPURTENANCES (CATCH BASINS, STRUCTURES, AND STRUCTURAL COLUMNS, ETC.).
  6. HOLD EXPANSION JOINT MATERIAL DOWN 1/2" BELOW TOP OF PAVING.
  7. USE FLEXIBLE FORMS FOR ALL CURVED PAVEMENT SECTIONS - NO EXCEPTIONS.

REVISION SCHEDULE		
Rev #	Date	Description

	As Indicated
	MF
	2022021.000





**IRRIGATION LEGEND**

SYMBOL	DESCRIPTION
	AUTOMATIC IRRIGATION CONTROLLER
	BACKFLOW PREVENTER / DOUBLE CHECK VALVE AND ENCLOSURE
	ELECTRIC REMOTE VALVE WITH PRESSURE REGULATOR
	BALL VALVE
	QUICK COUPLER VALVE
	MAIN LINE
	PIPE AND WIRE SLEEVE
	CONTROLLER-STATION NO
	VALVE SIZE
	VALVE TYPE

**NOTES**

- IRRIGATION PLAN IS DIAGRAMMATIC. PROVIDE AN AUTOMATIC IRRIGATION SYSTEM, WEATHER-BASED CONTROLLER AND WATER DELIVERY TO ALL PLANT MATERIAL. IRRIGATION SYSTEM TO BE CONNECTED TO THE PARK'S WATER SOURCE.
- PERMANENT IRRIGATION TO BE PROVIDED TO TURF, ACCENT PLANTING, PARKING LOT PLANTING, AND BIOSWALE PLANTING AREAS.
- TEMPORARY IRRIGATION TO BE PROVIDED TO NATIVE REVEGETATION AREAS AS NECESSARY FOR PLANT ESTABLISHMENT.
- PROVIDE 1-YEAR WARRANTY ON IRRIGATION SYSTEM AND ALL PLANT MATERIAL.



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PRELIMINARY  
 NOT FOR  
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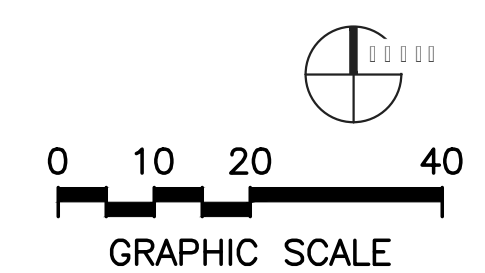
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 DEVELOPMENT

REVISION SCHEDULE		
Rev #	Date	Description

**CONCEPTUAL  
 IRRIGATION PLAN**

DESIGNED BY	As Indicated
DRAWN BY	MF
DATE	2022021.000

**L4.0**





**SOUTH WHIDBEY PARKS  
 AQUATIC CENTER**  
 5475 MAXWELTON RD  
 LANGLEY, WA 98260



**100% DESIGN  
 DEVELOPMENT**

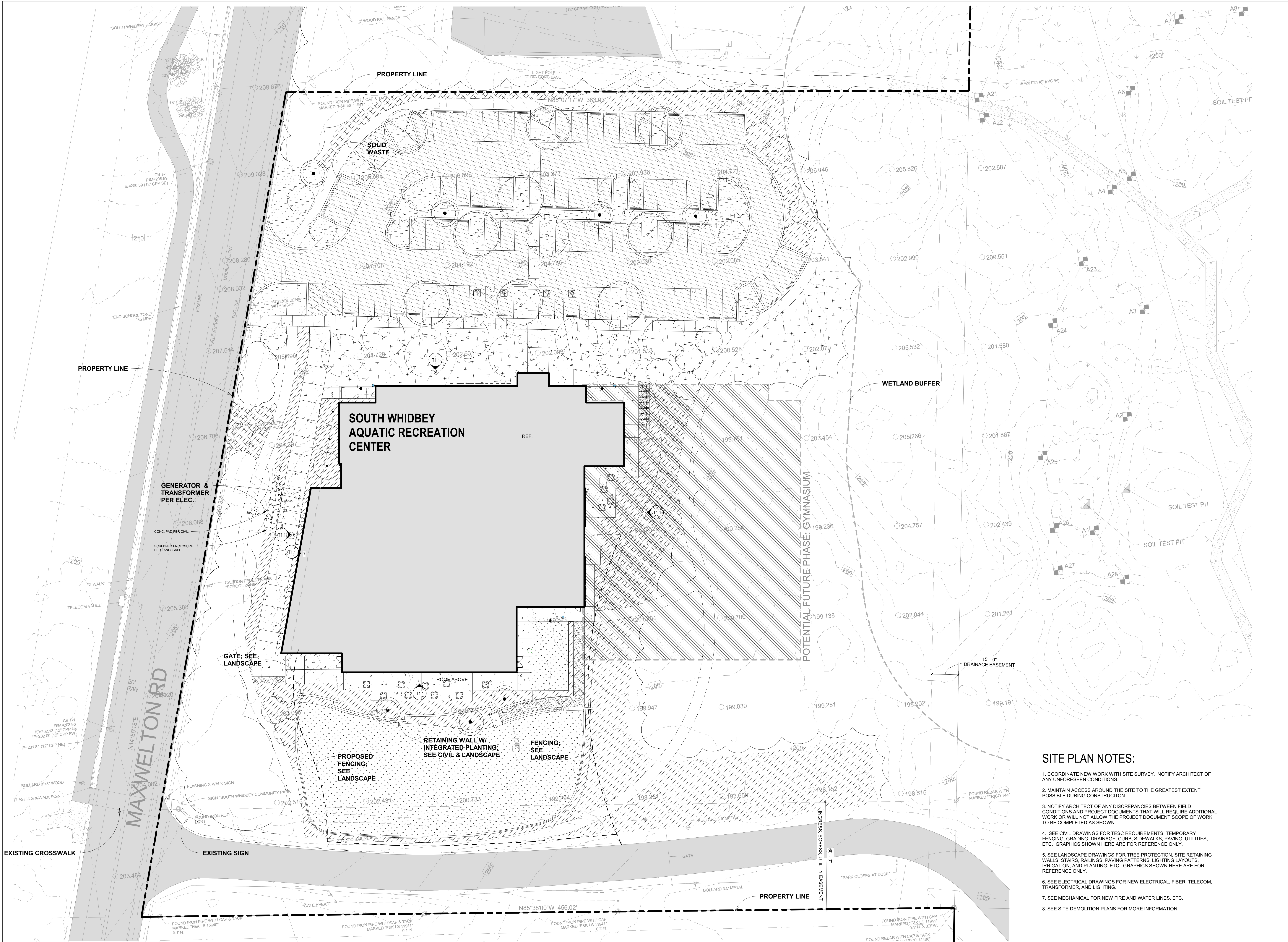
ISSUE DATE: JULY 11, 2023

REVISION SCHEDULE		
Rev #	Date	Description

CONTENTS:  
**SITE PLAN**

SCALE: As Indicated  
 DRAWN: Author  
 CHECKED: Checker  
 PROJECT NO: 2021030.000

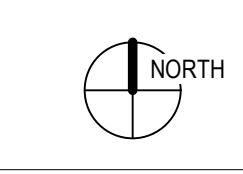
SHEET:  
**A1.1**



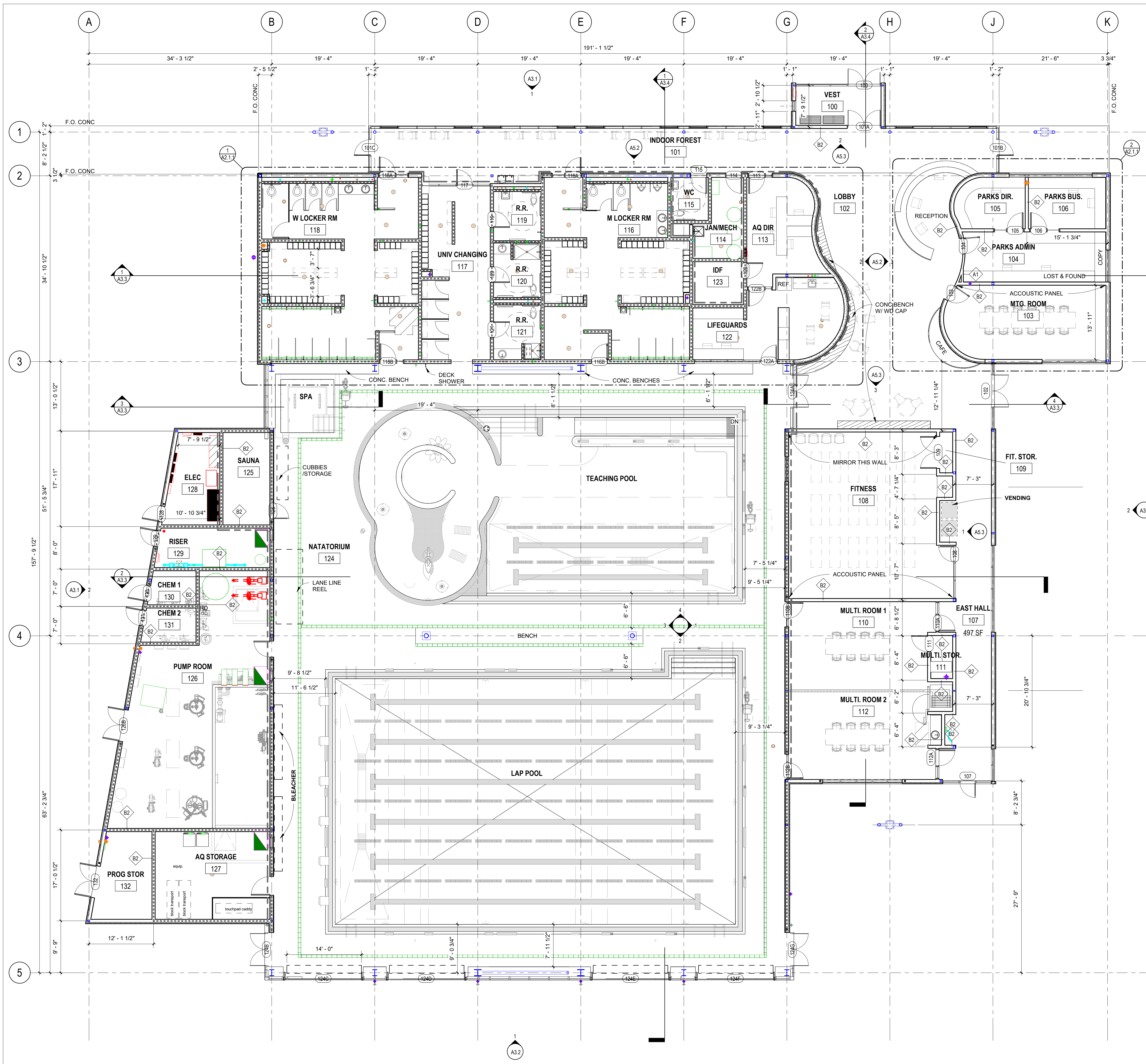
**SITE PLAN NOTES:**

- COORDINATE NEW WORK WITH SITE SURVEY. NOTIFY ARCHITECT OF ANY UNFORESEEN CONDITIONS.
- MAINTAIN ACCESS AROUND THE SITE TO THE GREATEST EXTENT POSSIBLE DURING CONSTRUCTION.
- NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND PROJECT DOCUMENTS THAT WILL REQUIRE ADDITIONAL WORK OR WILL NOT ALLOW THE PROJECT DOCUMENT SCOPE OF WORK TO BE COMPLETED AS SHOWN.
- SEE CIVIL DRAWINGS FOR TESC REQUIREMENTS, TEMPORARY FENCING, GRADING, DRAINAGE, CURB, SIDEWALKS, PAVING, UTILITIES, ETC. GRAPHICS SHOWN HERE ARE FOR REFERENCE ONLY.
- SEE LANDSCAPE DRAWINGS FOR TREE PROTECTION, SITE RETAINING WALLS, STAIRS, RAILINGS, PAVING PATTERNS, LIGHTING LAYOUTS, IRRIGATION, AND PLANTING, ETC. GRAPHICS SHOWN HERE ARE FOR REFERENCE ONLY.
- SEE ELECTRICAL DRAWINGS FOR NEW ELECTRICAL, FIBER, TELECOM, TRANSFORMER, AND LIGHTING.
- SEE MECHANICAL FOR NEW FIRE AND WATER LINES, ETC.
- SEE SITE DEMOLITION PLANS FOR MORE INFORMATION.

**1 SITE PLAN**  
 1" = 20'-0"







**PLAN NOTES:**

1. REFER TO T1.0 FOR GENERAL NOTES
2. SEE CIVIL & LANDSCAPE DRAWINGS FOR SITE CONDITIONS BEYOND THE BUILDING PERIMTER
3. SEE BUILDING SECTIONS FOR WALL, FLOOR, AND SLAB ASSEMBLIES U.O.N
4. SEE BUILDING ELEVATIONS FOR EXTERIOR MATERIALS & DETAILING
5. REFER TO SCHEDULE SHEETS FOR ADDITIONAL INFORMATION INCLUDING PARTITION AND DOOR SCHEDULES
6. ROOMS W/ CAPACITY GREATER THAN 50 OCCUPANTS SHALL HAVE CLEARLY VISIBLE SIGNAGE INDICATING OCCUPANT CAPACITY FOR THAT ROOM
7. ALL ELEVATIONS NOTED AS 0'-0" INDICATE A TRUE ELEVATION OF 205'-0"
8. WALL TYPE TO BE (B1) U.O.N.
9. FURNITURE SHOWN TO BE FURNISHED BY THE OWNER.

**POOL & LOCKER ROOM WATERPROOFING NOTES:**

POOL AREA, LOCKER ROOMS, POOL MECHANICAL AND OTHER ROOMS WITHIN THE NATATORIUM ENVIRONMENT REQUIRE SPECIAL CARE IN TERMS OF THE LOCATION OF VARYING TYPES OF WALLBOARD, AND TYPES AND LOCATIONS OF AIR AND WEATHER-RESISTANT BARRIERS. SEE FLOOR PLAN GRAPHIC LEGEND FOR BOUNDARY DESIGNATION OF NATATORIUM ENVIRONMENT SHOWN ON PLANS.

**GYPSUM WALLBOARD WITHIN THIS BOUNDARY:**

1. INTERIOR FACE OF EXTERIOR WALLS WITHIN NATATORIUM ENVIRONMENT TO HAVE DRYVIT FINISH OVER GLASS-MAT INTERIOR GYPSUM BOARD, PER SECTION 092613 "GYPSUM VENEER PLASTERING."
2. EXPOSED TO VIEW GWB WALLS AND CEILINGS WITHIN NATATORIUM ENVIRONMENT TO HAVE MOISTURE-RESISTANT, MOLD-RESISTANT GYPSUM WALL BOARD, PER SECTION 092900 "GYPSUM BOARD."
3. TILE WALLS TO HAVE GYPSUM TILE BACKER BOARD, PER SECTION 092900 "GYPSUM BOARD."
4. WALLS ABOVE CEILING SPACES MAY SUBSTITUTE GLASS-MAT INTERIOR GYPSUM BOARD, PER SECTION 092900 "GYPSUM BOARD."

**GYPSUM WALLBOARD AT ALL OTHER AREAS:**

1. UNLESS OTHERWISE NOTED, EXPOSED TO VIEW WALLS AND CEILINGS TO HAVE GYPSUM WALLBOARD, PER SECTION 092900 "GYPSUM BOARD."
2. TILE WALLS TO HAVE GYPSUM TILE BACKER BOARD, PER SECTION 092900 "GYPSUM BOARD."
3. WHERE INDICATED ON INTERIOR ELEVATIONS, PROVIDE ABUSE-RESISTANT GYPSUM WALLBOARD AT WALLS, PER SECTION 092900 "GYPSUM WALLBOARD."
4. WALLS ABOVE CEILING SPACES MAY SUBSTITUTE GLASS-MAT INTERIOR GYPSUM BOARD, PER SECTION 092900 "GYPSUM BOARD", EXCEPT WHERE CEILINGS DO NOT EXTEND TO WALLS (FLOATING CLOUDS).

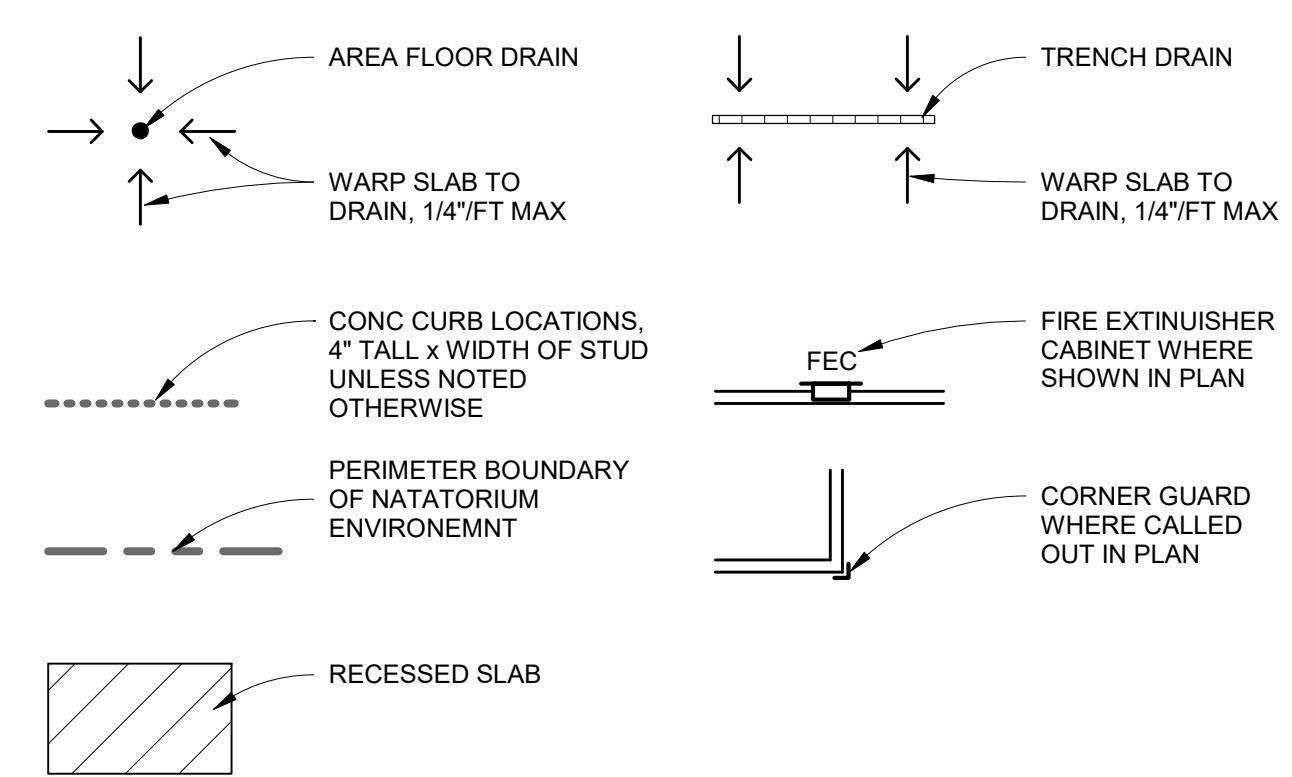
**SEALING AT PERIMETER OF NATATORIUM ENVIRONMENT:**

1. THE AIR AND VAPOR CONTROL MEMBRANE MUST BE CONTINUOUS AROUND THE NATATORIUM ENVIRONMENT. SEE INTERIOR DETAILS FOR ADDITIONAL INFORMATION ON MAINTAINING VAPOR BARRIER CONTINUITY AT WALL AND CEILING INTERSECTIONS. SEAL ALL PENETRATIONS, PERIMETERS AND TRANSITIONS AT THIS BOUNDARY PERIMETER.
2. ALL FLOOR/CEILING AND WALL PENETRATIONS BETWEEN NATATORIUM AND NON-NATATORIUM SPACES MUST TO BE POSITIVELY SEALED. REFER TO INTERIOR DETAILS AND PARTITION SCHEDULE LOCATED ON SHEET A7.1.

**LOCATION AND TYPES OF AIR AND WEATHER BARRIERS**

1. AT WALLS WITHIN THE BOUNDARY OF THE NATATORIUM ENVIRONMENT, PROVIDE NON VAPOR PERMEABLE WRB. AT WALLS OUTSIDE THE BOUNDARY OF NATATORIUM ENVIRONMENT, PROVIDE VAPOR PERMEABLE WRB.
2. REFER TO EXTERIOR ROOF AND WALL ASSEMBLIES ON SHEETS A3.3 AND A3.4
3. REFER TO EXTERIOR WALL SCHEDULE ON SHEET A7.1

**FLOOR PLAN GRAPHIC LEGEND**



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DEVELOPMENT**

ISSUE DATE: DECEMBER 01, 2023

REVISION SCHEDULE		
Rev #	Date	Description

CONTENTS:  
**FLOOR PLAN**

SCALE: As Indicated  
DRAWN: LAP  
CHECKED: PRC  
PROJECT NO. 2022021.000

SHEET:  
**A2.1**

1 LEVEL 1 - T.O. SLAB  
1/8" = 1'-0"







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ISSUE DATE: DECEMBER 01, 2023

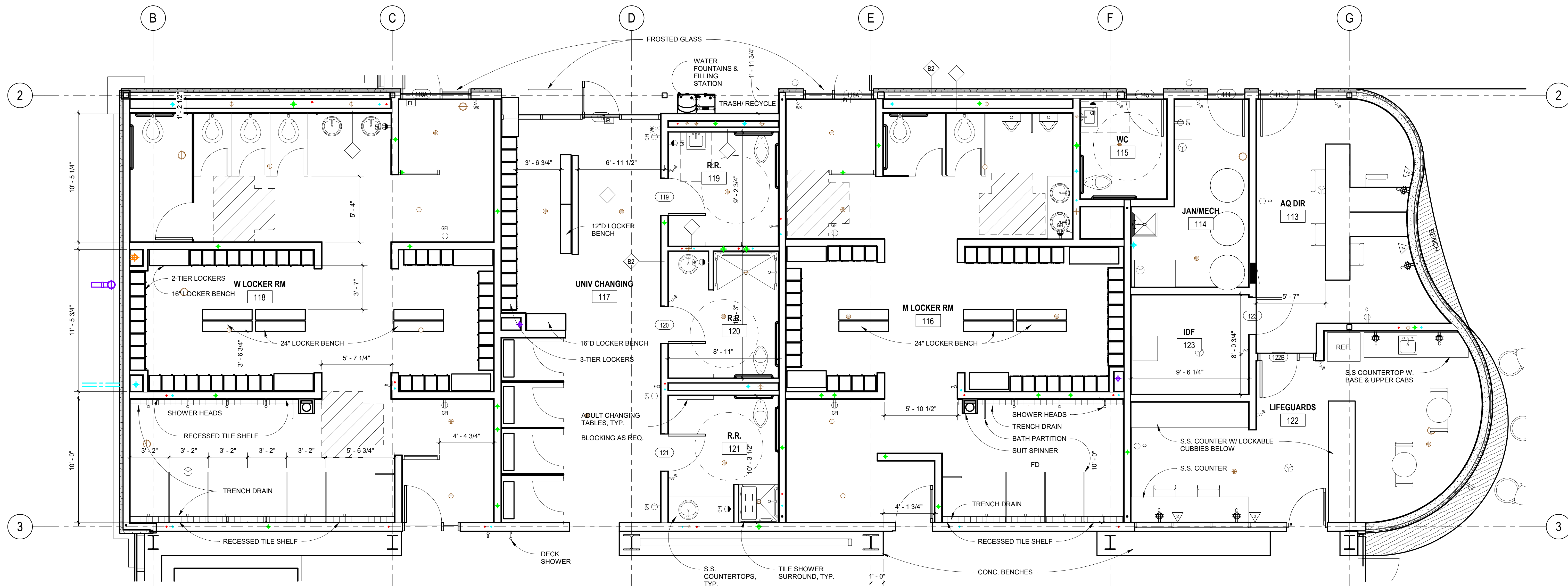
REVISION SCHEDULE		
Rev #	Date	Description

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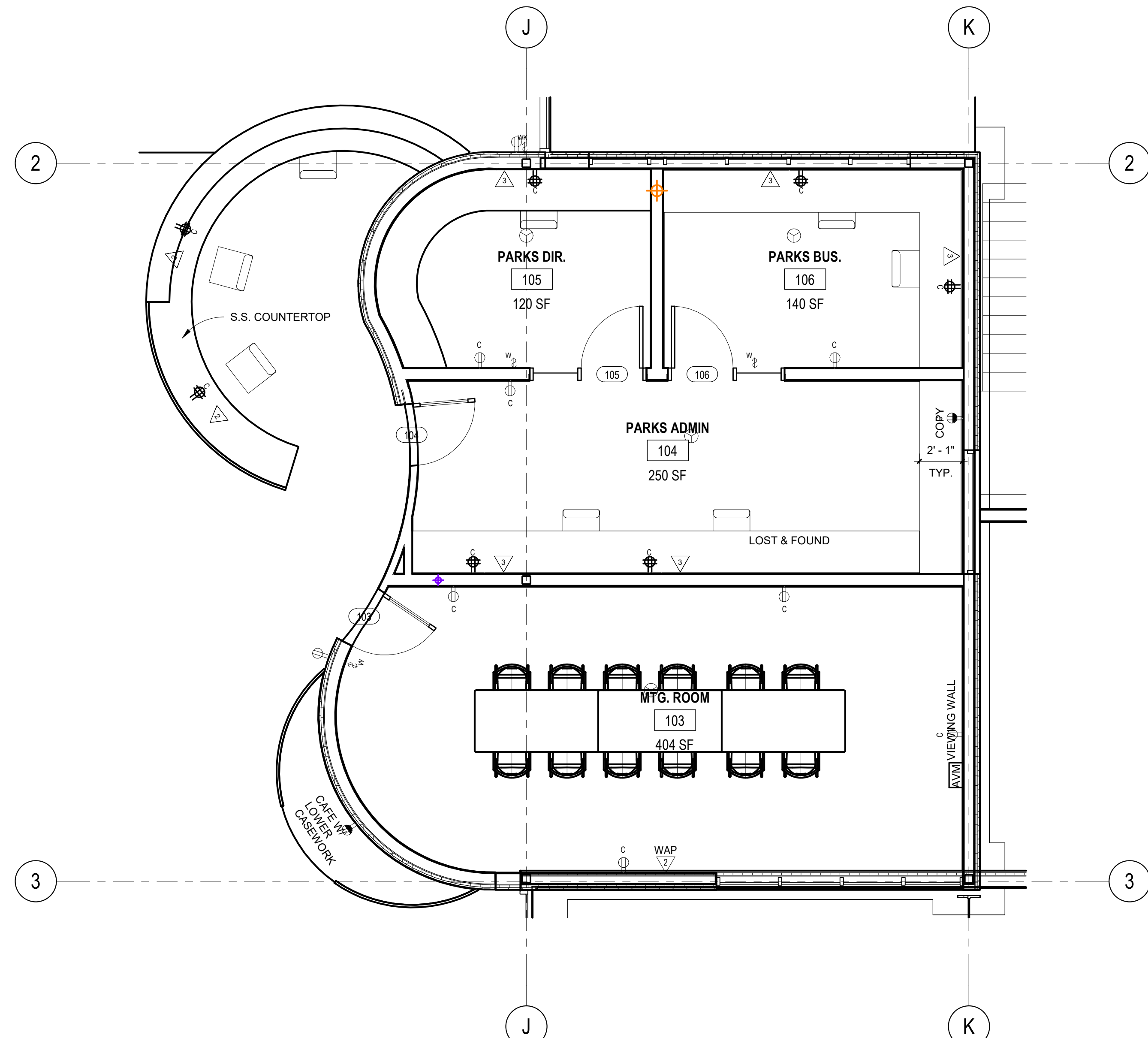
**ENLARGED PLANS**

SCALE:	As Indicated
DRAWN:	Author
CHECKED:	Checker
PROJECT NO.:	2022021.000

SHEET:  
**A2.1.1**



**1 ENLARGED LOCKERS AND OFFICE**  
 1/4" = 1'-0"



**2 ENLARGED PARKS OFFICE**  
 1/4" = 1'-0"

**PLAN NOTES:**

- REFER TO T1.0 FOR GENERAL NOTES
- SEE CIVIL & LANDSCAPE DRAWINGS FOR SITE CONDITIONS BEYOND THE BUILDING PERIMETER
- SEE BUILDING SECTIONS FOR WALL, FLOOR, AND SLAB ASSEMBLIES U.O.N
- SEE BUILDING ELEVATIONS FOR EXTERIOR MATERIALS & DETAILING
- REFER TO SCHEDULE SHEETS FOR ADDITIONAL INFORMATION INCLUDING PARTITION AND DOOR SCHEDULES
- ROOMS W/ CAPACITY GREATER THAN 50 OCCUPANTS SHALL HAVE CLEARLY VISIBLE SIGNAGE INDICATING OCCUPANT CAPACITY FOR THAT ROOM
- ALL ELEVATIONS NOTED AS 0'-0" INDICATE A TRUE ELEVATION OF 205'-0"
- WALL TYPE TO BE (B1) U.O.N.
- FURNITURE SHOWN TO BE FURNISHED BY THE OWNER.



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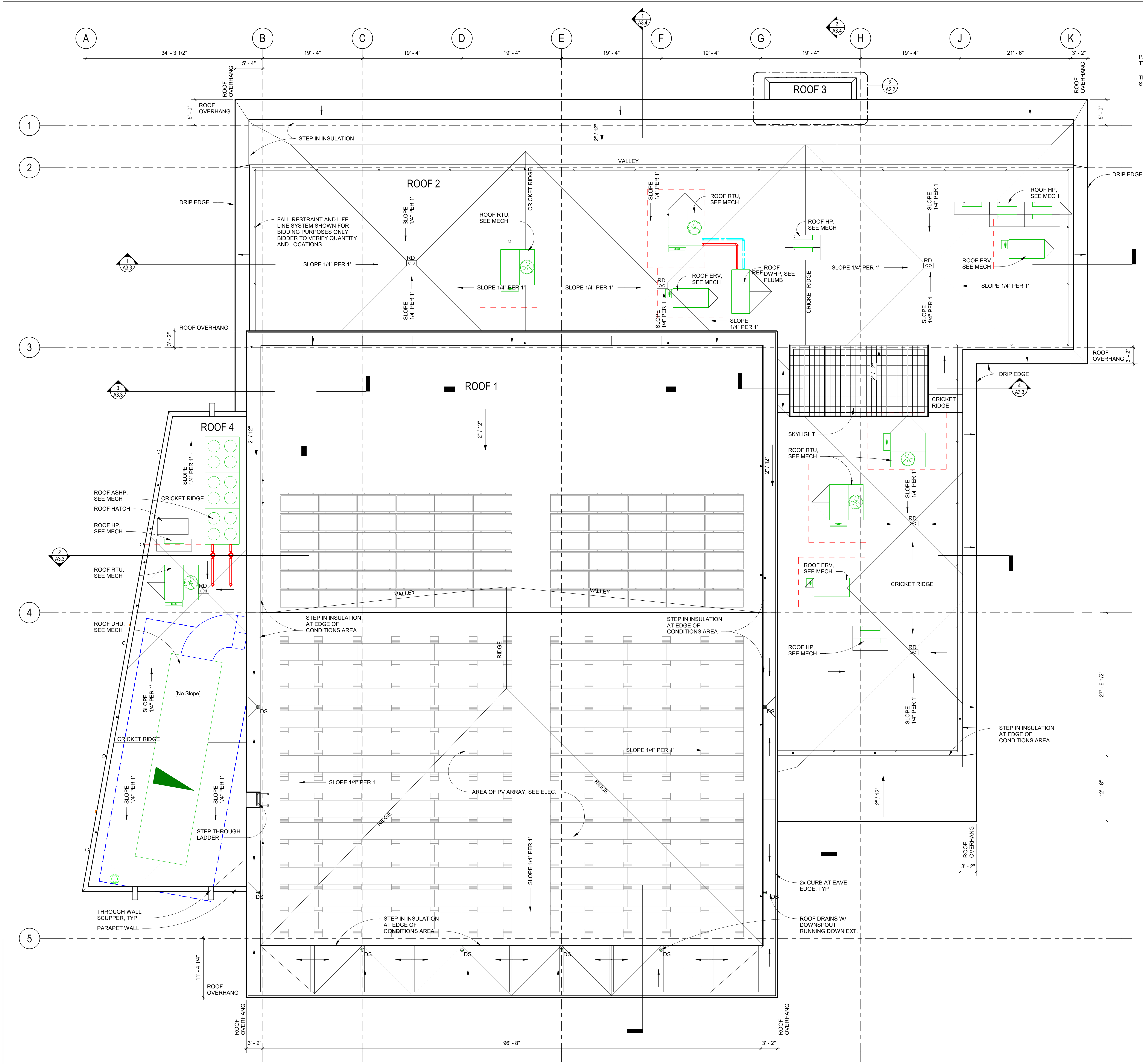
ISSUE DATE: DECEMBER 01, 2023

REVISION SCHEDULE		
Rev #	Date	Description

CONTENTS:  
**ROOF PLAN**

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 DRAWN: LAP  
 CHECKED: PRG  
 PROJECT NO: 2022021.000

SHEET:  
**A2.2**



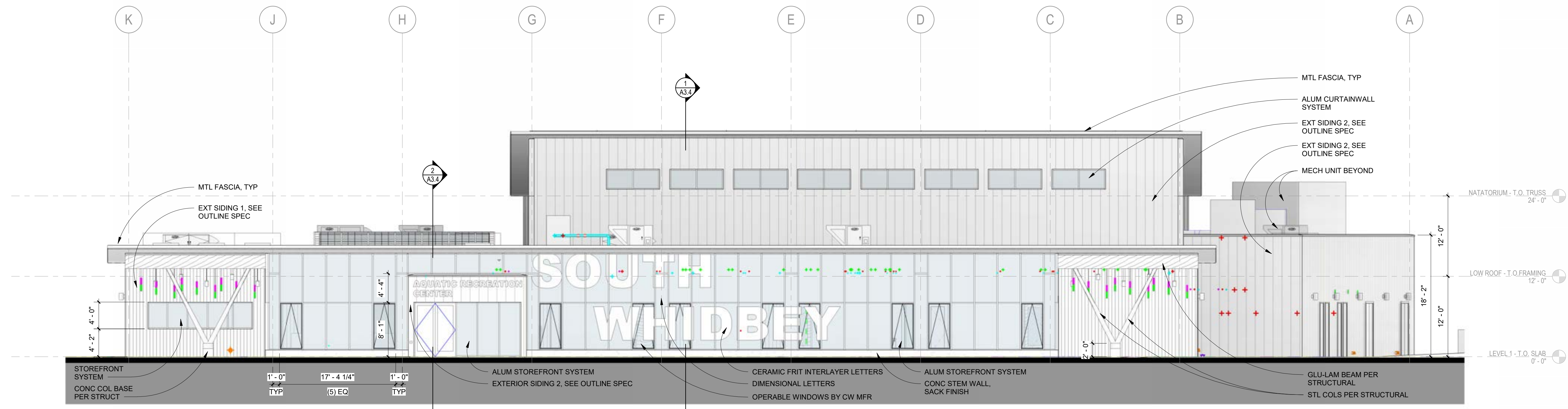
**2 ROOF PLAN - VESTIBULE**  
 1/8" = 1'-0"

**ROOF PLAN NOTES:**

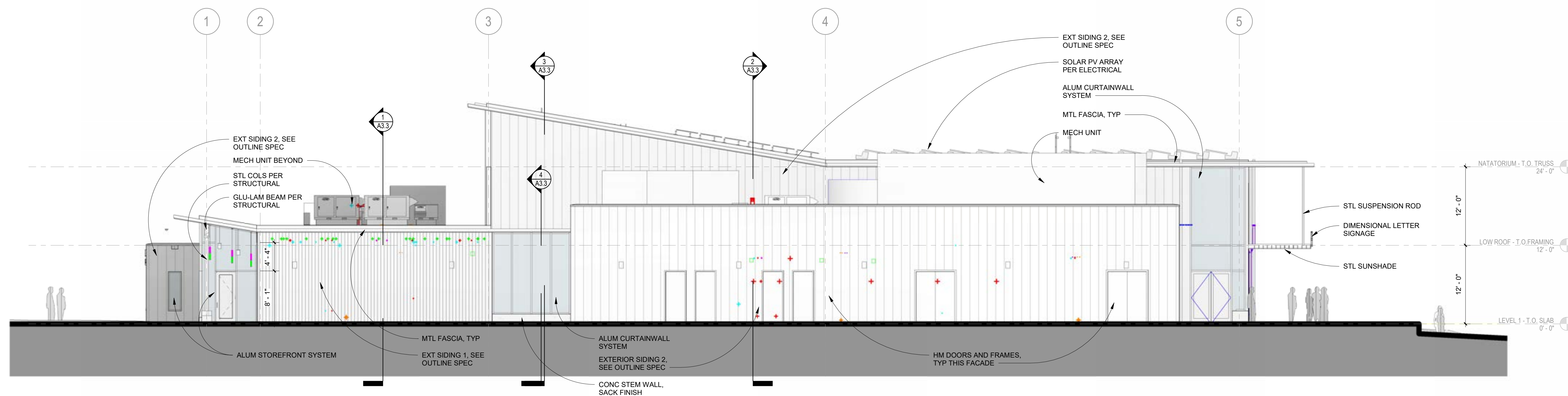
- FOR ROOF TYPE ASSEMBLIES - SEE BUILDING SECTIONS
- INSTALL CONDUITS FOR EXPOSED CEILING MOUNTED DEVICES ABOVE THE ROOF SHEATING & TEMPORARY ROOF, AND WITHIN THE RIGID INSULATION. SPRAY FOAM AROUND ALL CONDUITS. SEAL CONDUIT PENETRATIONS DAILY TO PREVENT WATER INTRUSION DURING CONSTRUCTION.
- SEE EXTERIOR ELEVATIONS FOR DOWNSPOUT LOCATIONS. COORDINATE WITH CIVIL. NOTIFY ARCHITECT OF ANY CONFLICTS.
- SIZE FALL PROTECTION POSTS TO HAVE 10" FREE LENGTH OF POST ABOVE THE DEEPEST INSULATION LOCATION FOR WATERPROOFING. ALL POSTS TO BE THE SAME HEIGHT.
- DRAWINGS INDICATE GENERAL & TYPICAL DETAILS OF CONSTRUCTION WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER. TYPICAL DETAILS SHALL APPLY.
- ROOF PIPING AND VENT PENETRATION LOCATIONS ARE SHOWN FOR CONTRACTOR COORDINATION AND FOR DESIGN INTENT. FOR ACTUAL PENETRATION QUANTITIES REQUIRED, SEE MECH.

**1 ROOF PLAN**  
 1/8" = 1'-0"





1 NORTH ELEVATION  
 1/8" = 1'-0"



2 WEST ELEVATION  
 1/8" = 1'-0"

**ELEVATION LEGEND**

- CLEAR, UN-TEMPERED GLASS
- TEMPERED GLASS
- LAMINATED GLASS

**ELEVATION NOTES:**

1. REFER TO T1.0 FOR PROJECT GENERAL NOTES.
2. REFER TO A8.1 FOR SEALING OF WALL OPENINGS & PENETRATIONS
3. SEE BUILDING SECTIONS FOR EXTERIOR WALL AND ROOF ASSEMBLIES
4. REFER TO ROOF PLANS FOR ROOF DETAIL CALLOUTS AND DESCRIPTIONS
5. DRAWINGS INDICATE GENERAL & TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER, TYPICAL DETAILS SHALL APPLY.
6. SEE A10.1 FOR FINISHES APPLIED TO EXT BUILDING COMPONENTS SCHEDULE.

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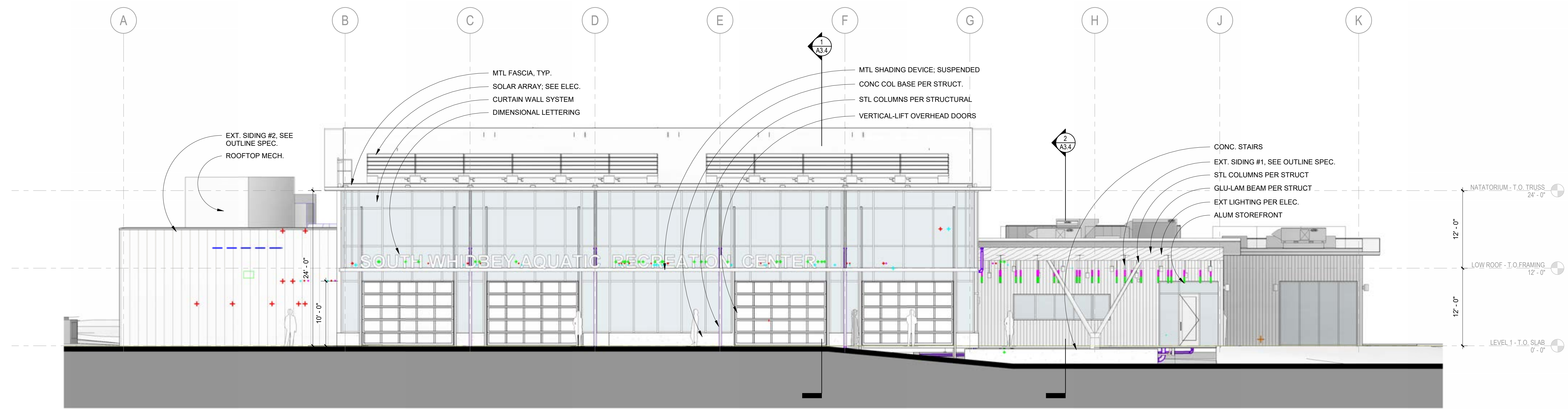
REVISION SCHEDULE		
Rev #	Date	Description

CONTENTS:  
**EXTERIOR  
 ELEVATIONS**

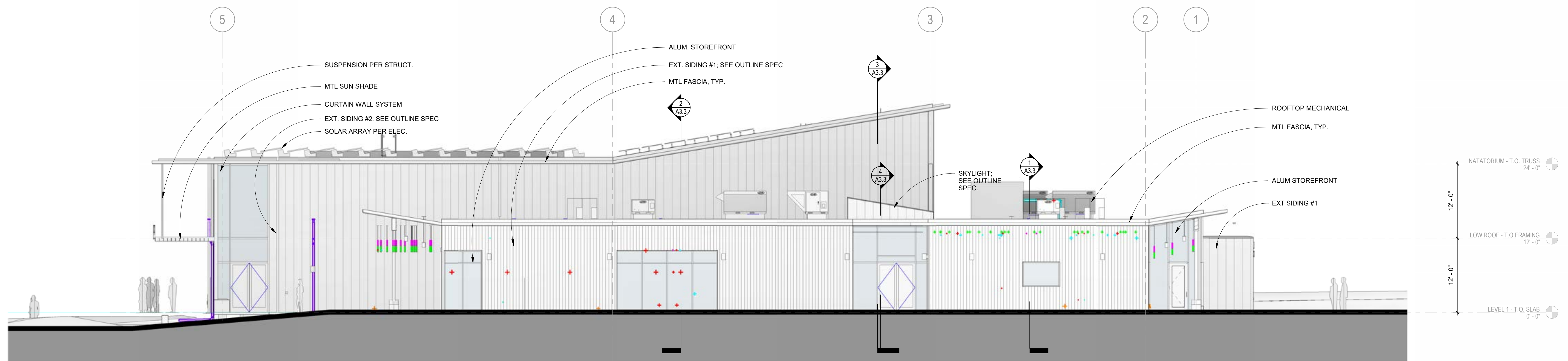
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 CHECKED: Checker  
 PROJECT NO: 2022021.000

SHEET:  
**A3.1**




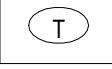
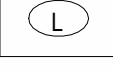


1 SOUTH ELEVATION  
 1/8" = 1'-0"



2 EAST ELEVATION  
 1/8" = 1'-0"

**ELEVATION LEGEND**

-  CLEAR, UN-TEMPERED GLASS
-  TEMPERED GLASS
-  LAMINATED GLASS

**ELEVATION NOTES:**

1. REFER TO T1.0 FOR PROJECT GENERAL NOTES.
2. REFER TO A8.1 FOR SEALING OF WALL OPENINGS & PENETRATIONS
3. SEE BUILDING SECTIONS FOR EXTERIOR WALL AND ROOF ASSEMBLIES
4. REFER TO ROOF PLANS FOR ROOF DETAIL CALLOUTS AND DESCRIPTIONS
5. DRAWINGS INDICATE GENERAL & TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER, TYPICAL DETAILS SHALL APPLY.
6. SEE A10.1 FOR FINISHES APPLIED TO EXT BUILDING COMPONENTS SCHEDULE.

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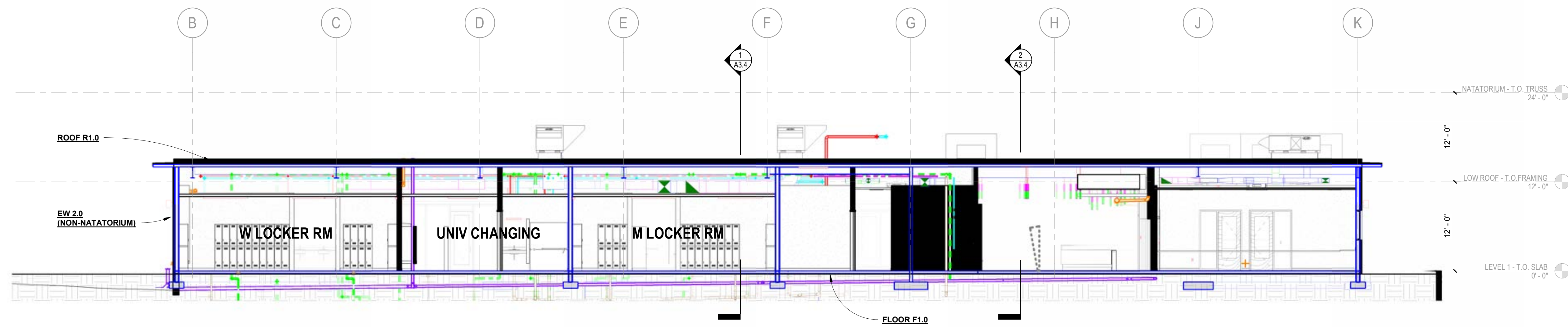
REVISION SCHEDULE		
Rev #	Date	Description

CONTENTS:  
**EXTERIOR  
 ELEVATIONS**

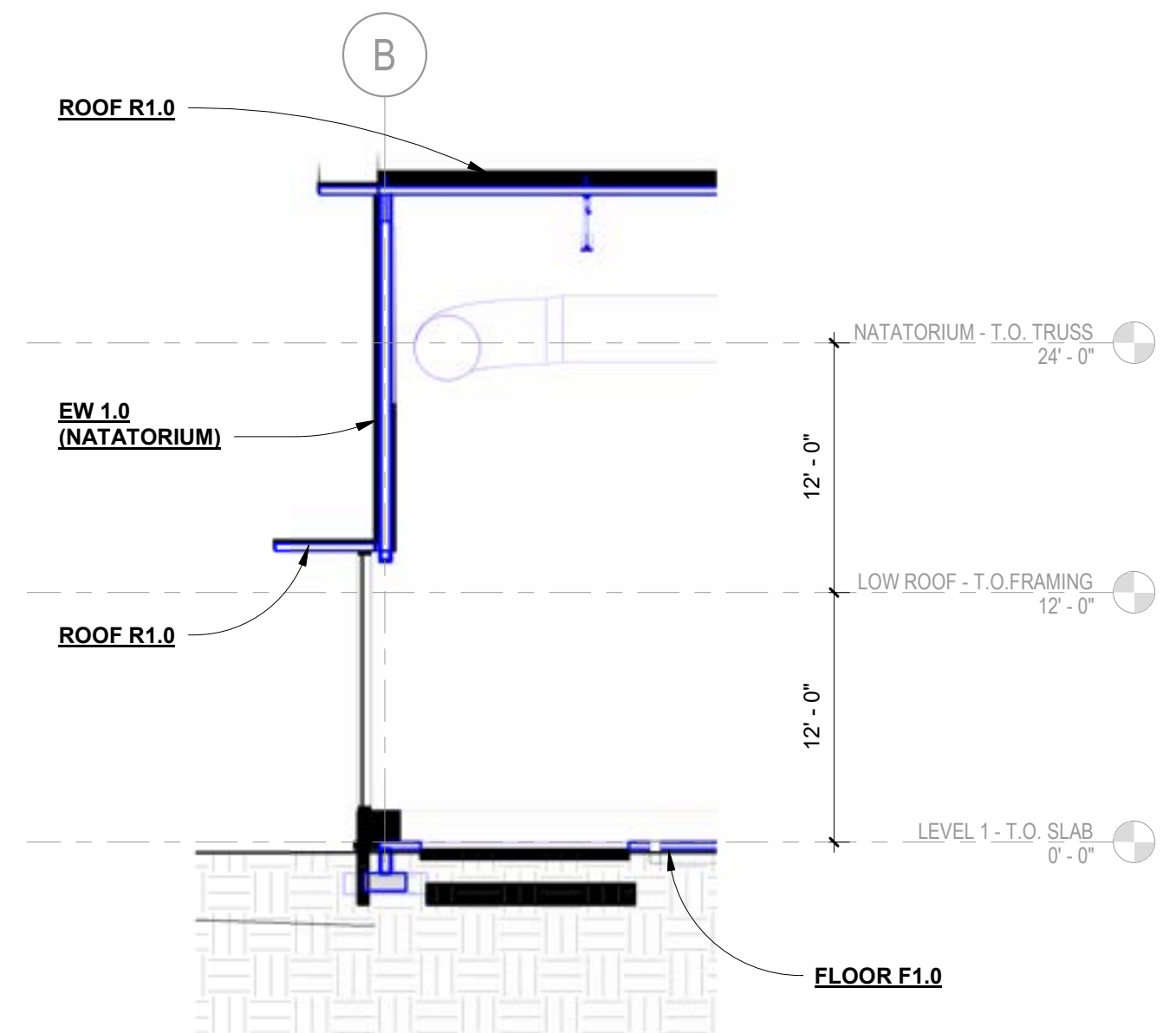
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 PROJECT NO: 2022021.000

SHEET:  
**A3.2**

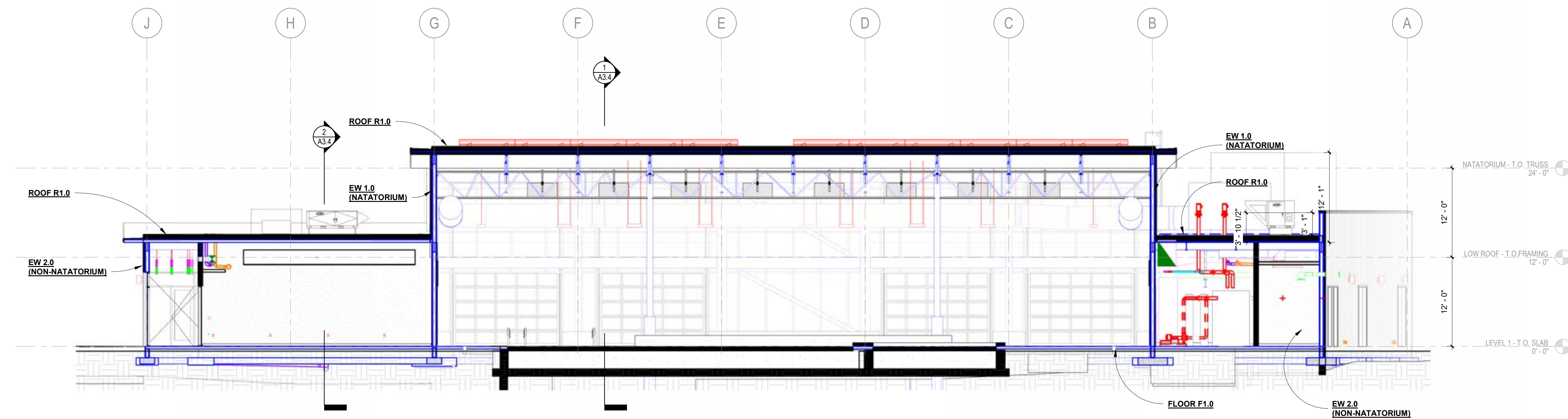




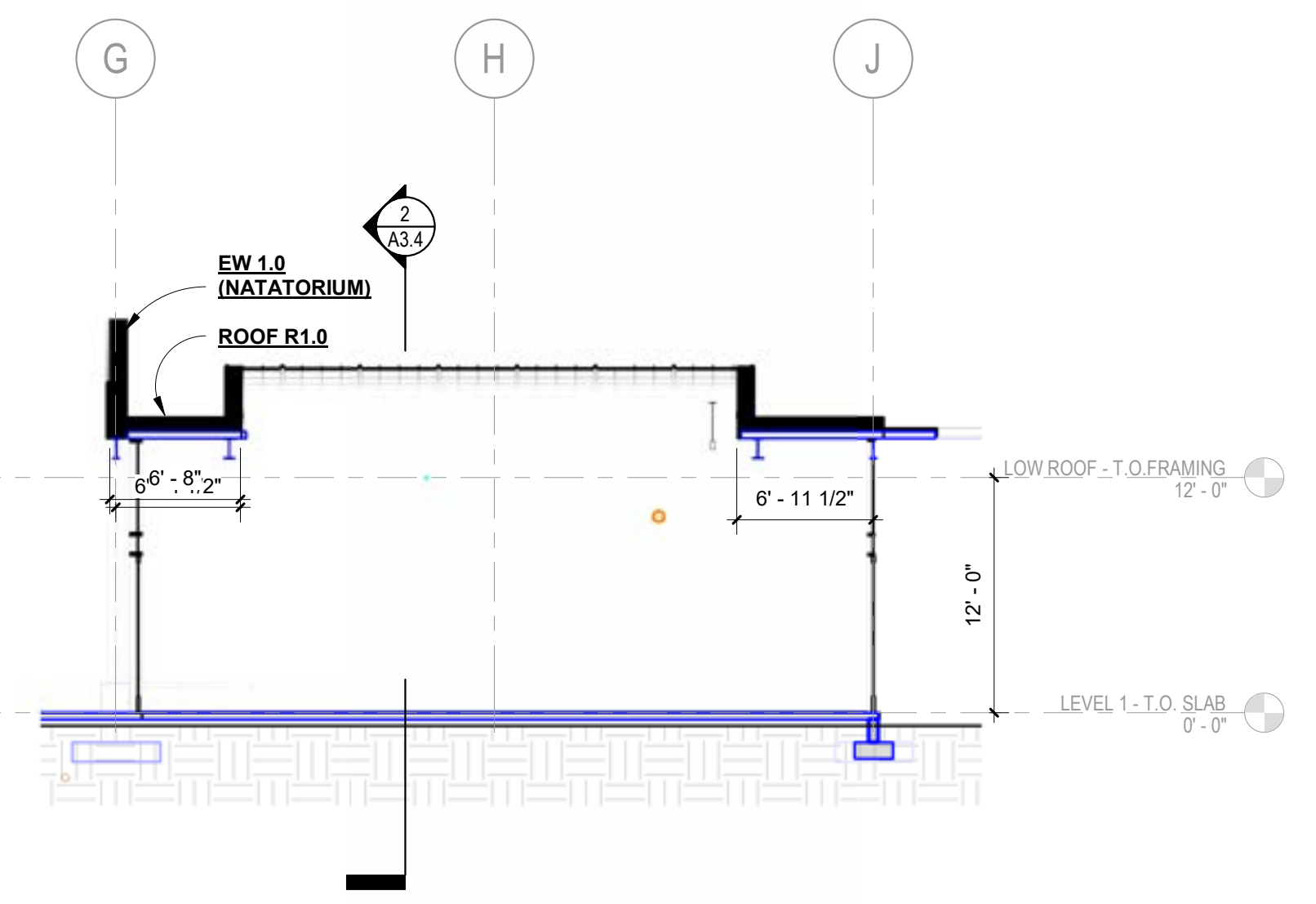
1 BLDG SECTION E/W 1  
 1/8" = 1'-0"



3 BLDG SECTION E/W 3  
 1/8" = 1'-0"

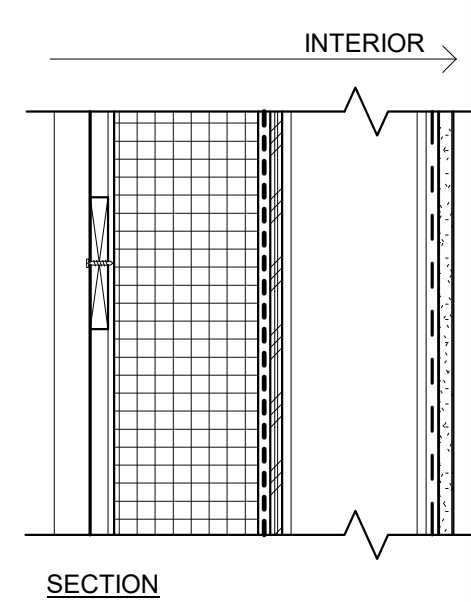


2 BLDG SECTION E/W 2  
 1/8" = 1'-0"

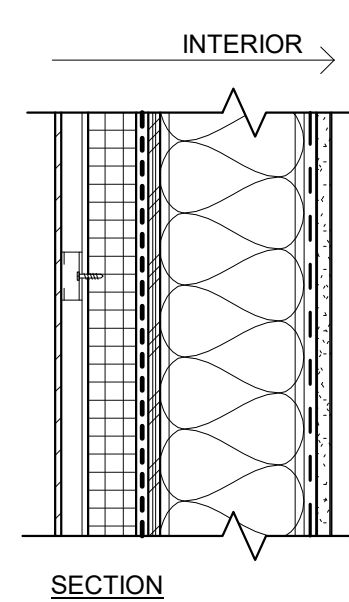


4 BLDG SECTION E/W 4  
 1/8" = 1'-0"

EXTERIOR WALL ASSEMBLIES

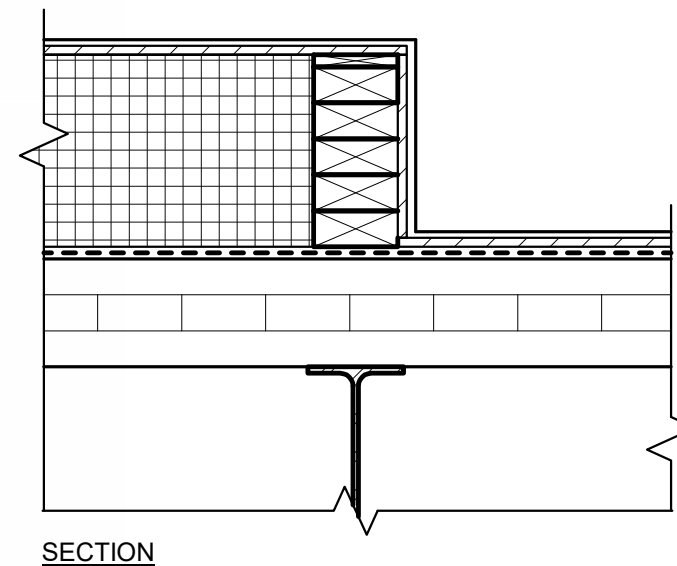


- EW1.0 (NATORIUM): METAL STUD WALL, METAL PANEL SIDING**
- EXPOSED FASTENER METAL PANEL SIDING OVER
  - 1x6 P.T. FURRING STRIPS @ 16"o.c. OVER
  - 5" CONTINUOUS MINERAL WOOL INSUL W/ THERMALLY BROKEN CLIPS OVER
  - SELF-ADHERED, VAPOR IMPERMEABLE WEATHER RESISTANT BARRIER OVER
  - EXTERIOR MOISTURE RESISTANT PLYWOOD SHEATHING OVER
  - MTL STUD FRAMING (STUD DEPTH PER STRUCT) OVER
  - INTERIOR FINISHES PER INT ELEVS, FINISH SCHEDULE

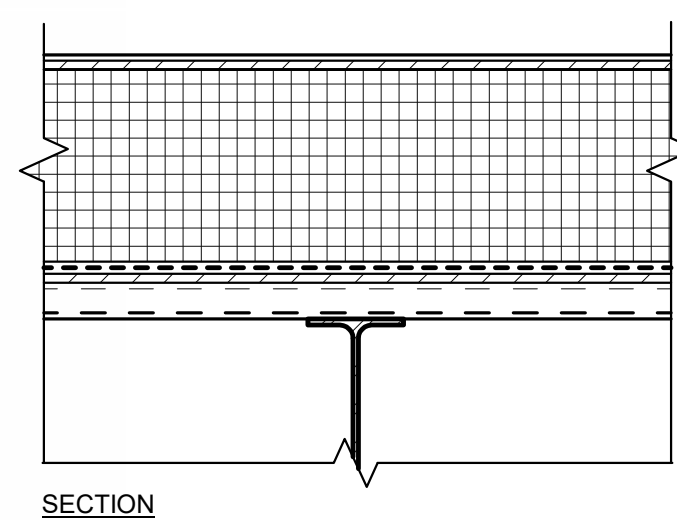


- EW2.0 (NON-NATORIUM): METAL STUD WALL, ENGINEERED WOOD SIDING**
- ENGINEERED WOOD SIDING OVER
  - MOUNTING RAIL BY SIDING MFR OVER
  - CONT MINERAL WOOL INSUL (2 1/2" MIN) W/ THERMALLY BROKEN CLIPS OVER
  - SELF-ADHERED, VAPOR PERMEABLE WEATHER RESISTANT BARRIER OVER
  - EXTERIOR MOISTURE RESISTANT PLYWOOD SHEATHING OVER
  - MTL STUD FRAMING (STUD DEPTH PER STRUCT) W/ CAVITY INSULATION OVER
  - VARIABLE PERMEANCE, VAPOR RETARDING MEMBRANE OVER
  - INTERIOR FINISHES PER INT ELEVS, FINISH SCHEDULE

EXTERIOR ROOF ASSEMBLIES

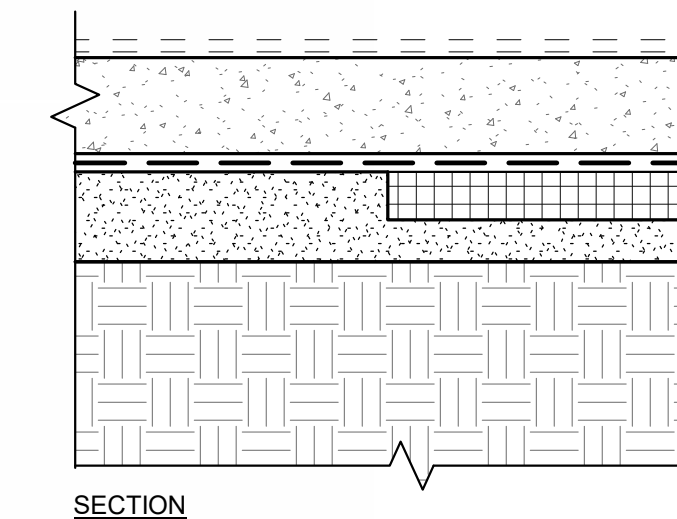


- R1.0: SINGLE-PLY MEMBRANE ROOFING AT CLT (ROOFS 1 AND 2)**
- SINGLE-PLY MEMBRANE ROOFING OVER
  - ROOFING GRADE COVERBOARD OVER
  - POLYISO INSULATION (OMIT AT OVERHANGS WHERE OCCURS PER ROOF PLAN) OVER
  - TEMPORARY ROOF / VAPOR AND AIR BARRIER OVER
  - CLT PANELS PER STRUCTURAL OVER
  - FRAMING MEMBERS PER STRUCTURAL OVER
  - CEILING ASSEMBLY (WHERE OCCURS) PER RCP, FINISH SCHEDULE



- R2.0: SINGLE-PLY MEMBRANE ROOFING AT METAL DECK (ROOFS 3 AND 4)**
- SINGLE-PLY MEMBRANE ROOFING OVER
  - ROOFING GRADE COVERBOARD OVER
  - POLYISO INSULATION OVER
  - TEMPORARY ROOF / VAPOR AND AIR BARRIER OVER
  - ROOF BOARD OVER
  - METAL DECK PER STRUCTURAL OVER
  - FRAMING MEMBERS PER STRUCTURAL OVER
  - CEILING ASSEMBLY (WHERE OCCURS) PER RCP, FINISH SCHEDULE

EXTERIOR FLOOR ASSEMBLIES



- F1.0: CONCRETE SLAB-ON-GRADE**
- FINISH VARIES (SEE FINISH PLANS, FINISH SCHEDULE) OVER
  - CONCRETE SLAB PER STRUCTURAL OVER
  - UNDERSLAB INSULATION (WHERE OCCURS) OVER
  - UNDERSLAB VAPOR BARRIER OVER
  - CAPILLARY BREAK PER SOILS REPORT OVER
  - STRUCTURAL FILL OR UNDISTURBED SOIL PER SOILS REPORT



100% DESIGN DEVELOPMENT

ISSUE DATE: DECEMBER 01, 2023

REVISION SCHEDULE		
Rev #	Date	Description

CONTENTS:  
**BUILDING SECTIONS**

SCALE: As Indicated  
 DRAWN: Author  
 CHECKED: Checker  
 PROJECT NO: 2022021.000

SHEET:  
**A3.3**





**100% DESIGN  
 DEVELOPMENT**

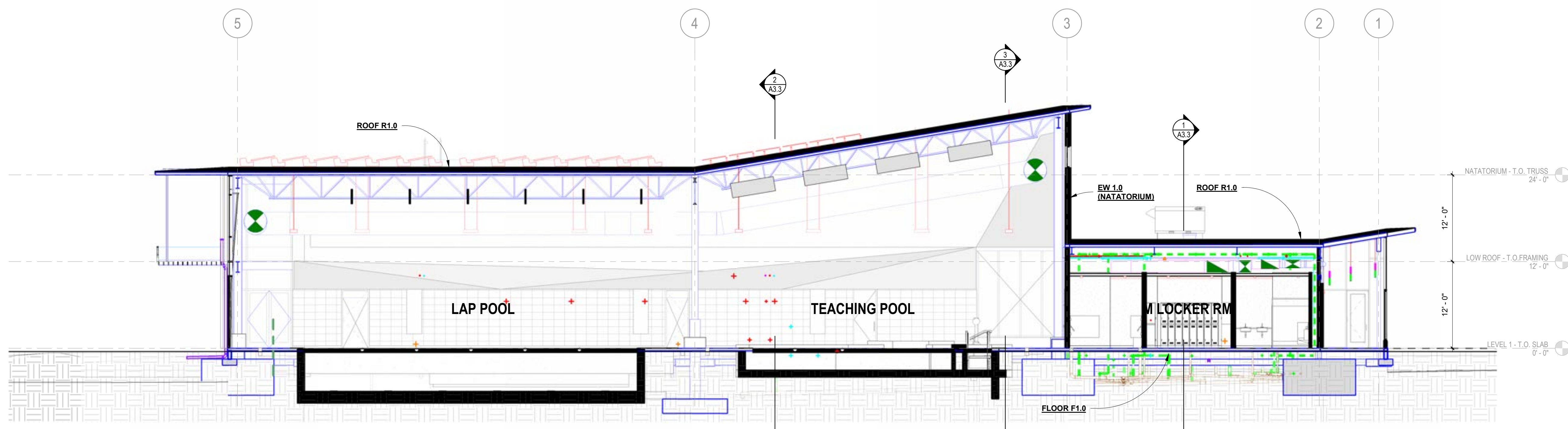
ISSUE DATE: DECEMBER 01, 2023

REVISION SCHEDULE		
Rev #	Date	Description

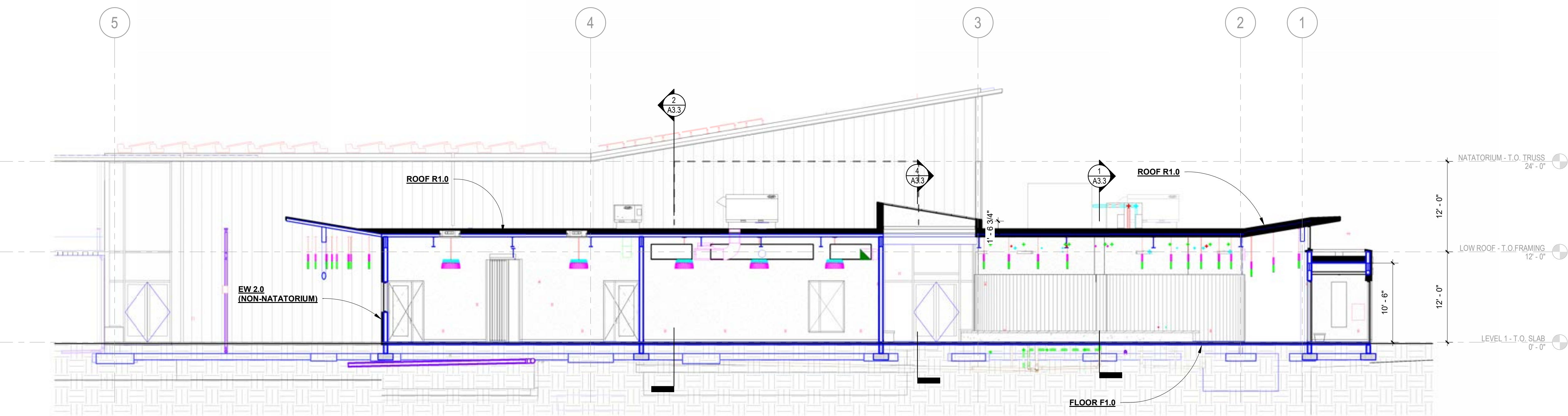
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 SECTIONS**

SCALE: As Indicated  
 DRAWN: Author  
 CHECKED: Checker  
 PROJECT NO: 2022021.000

SHEET:  
**A3.4**

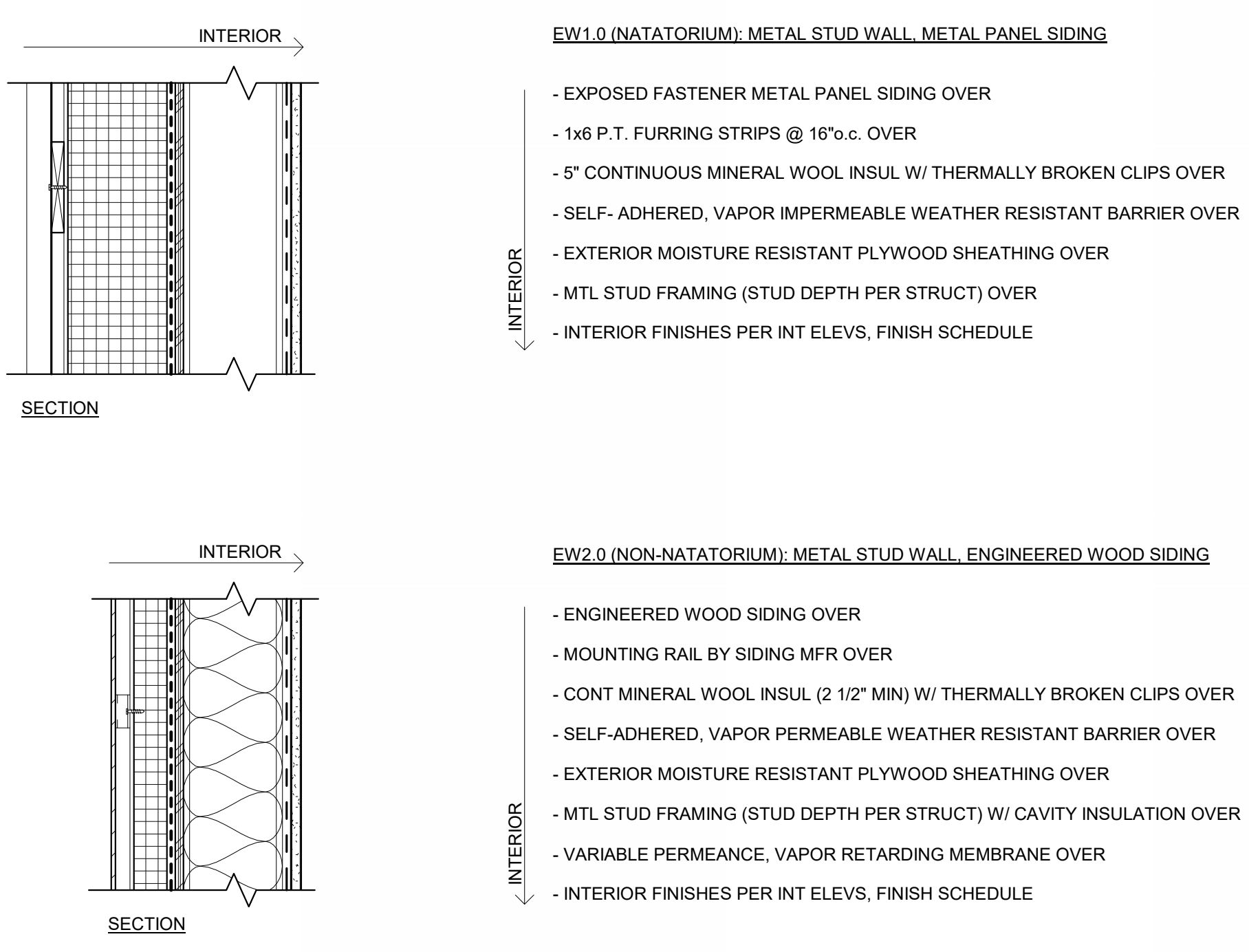


1 BLDG SECTION N/S 1  
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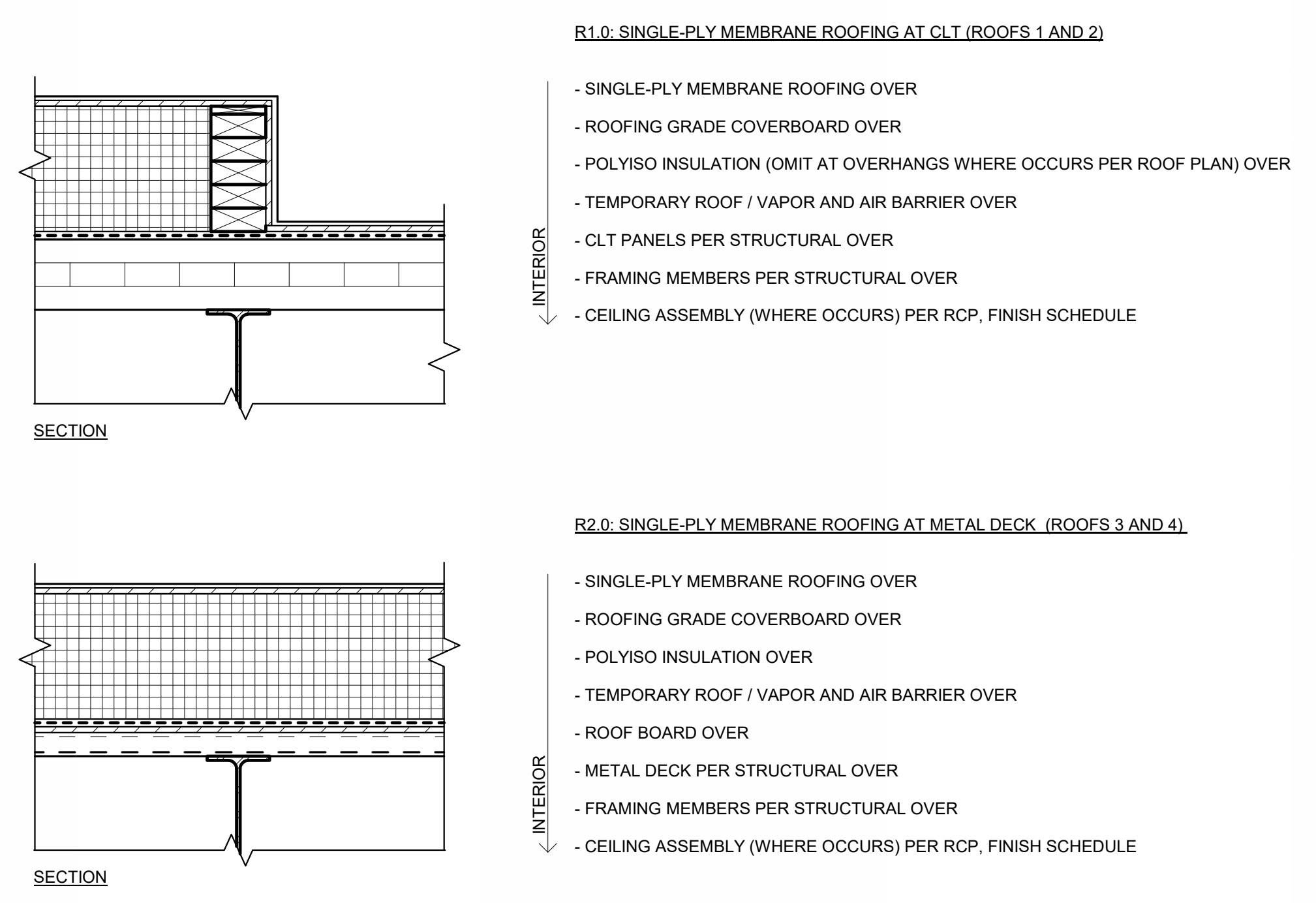


2 BLDG SECTION N/S 2  
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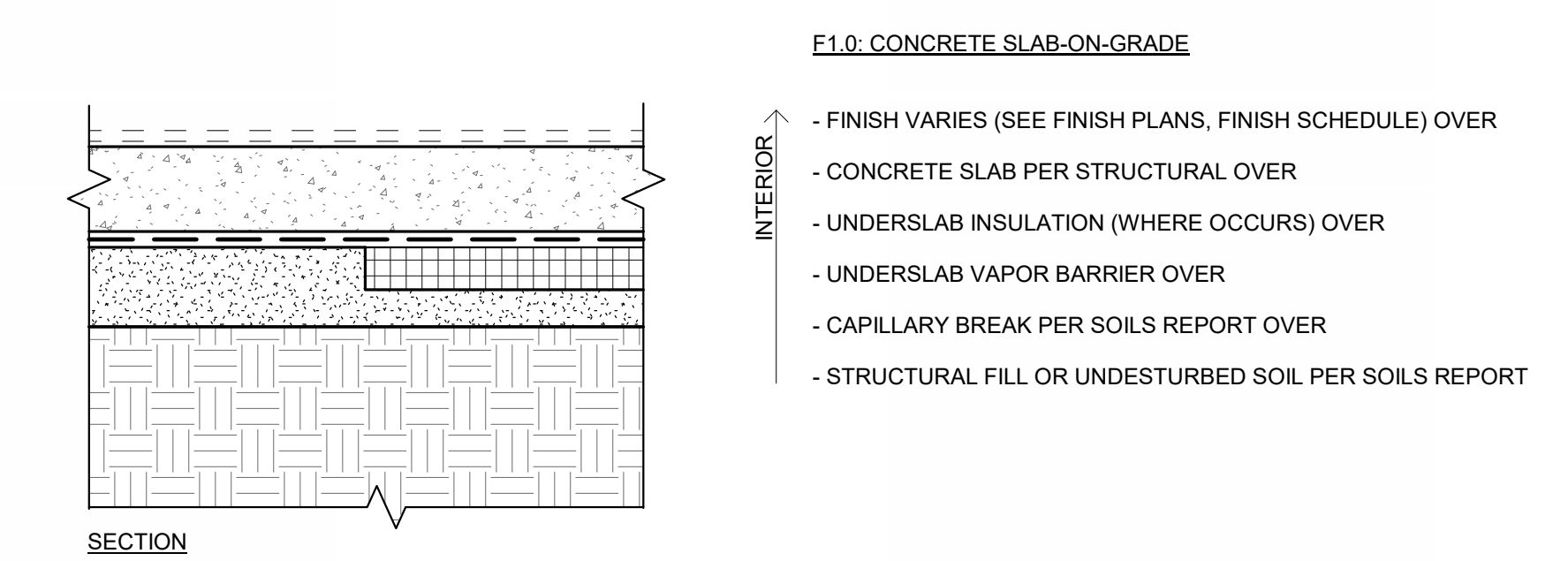
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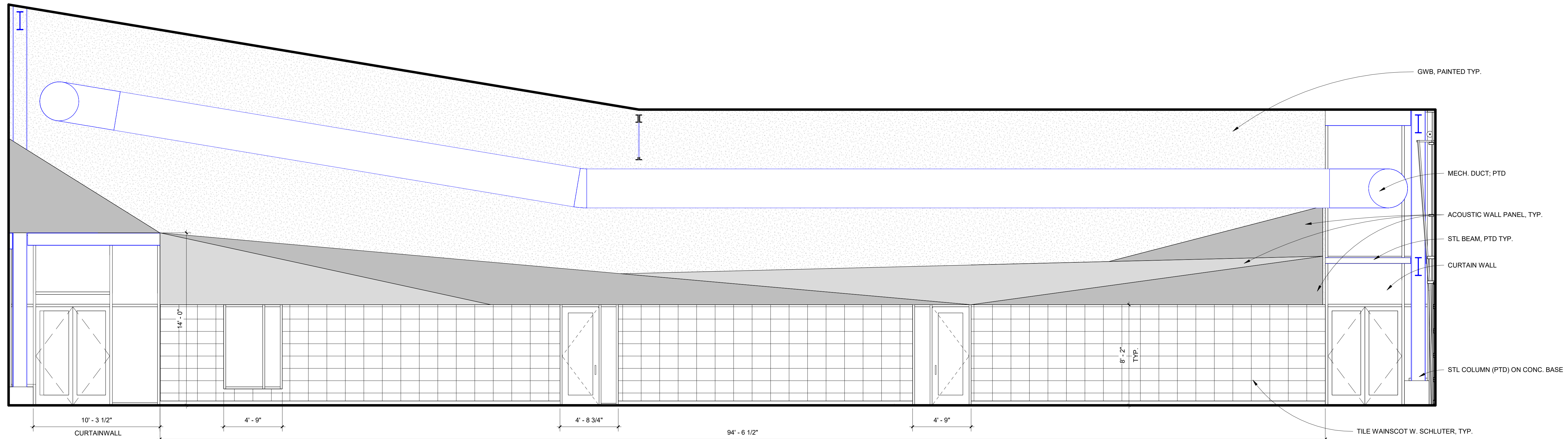
**EXTERIOR ROOF ASSEMBLIES**



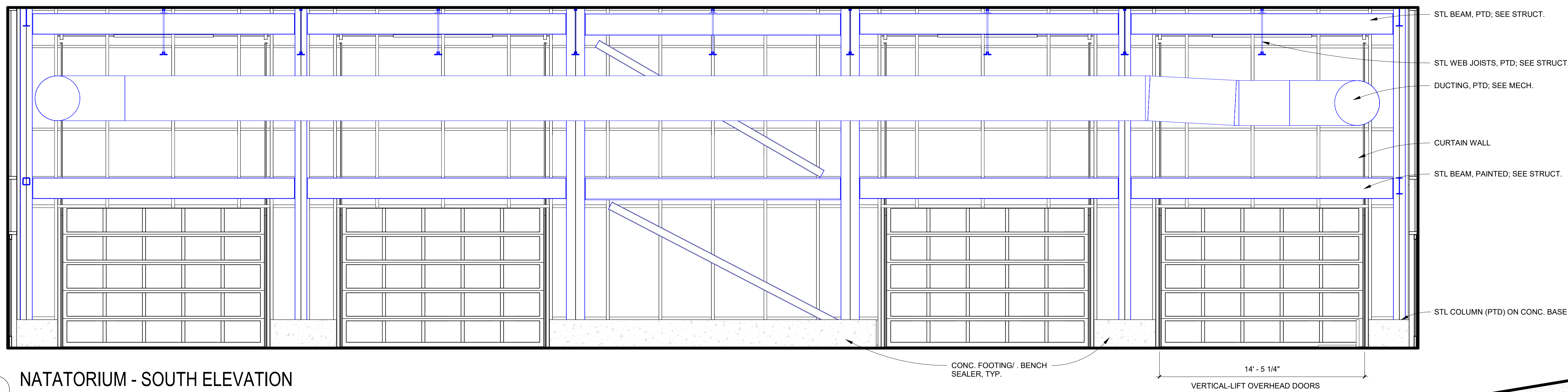
**EXTERIOR FLOOR ASSEMBLIES**



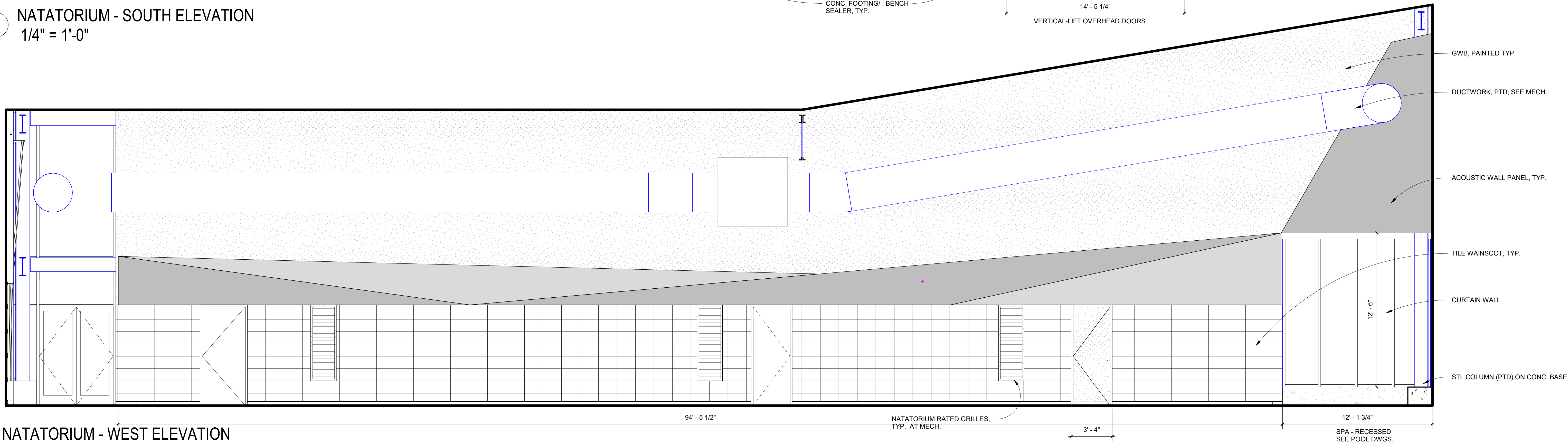




1 NATATORIUM - EAST ELEVATION  
 1/4" = 1'-0"



2 NATATORIUM - SOUTH ELEVATION  
 1/4" = 1'-0"



3 NATATORIUM - WEST ELEVATION  
 1/4" = 1'-0"

**S WHIDBEY PARKS & REC  
 AQUATIC REC CENTER**  
 PID 812720 MAXWELTON RD  
 LANGLEY, WA 98260



**100% DESIGN  
 DEVELOPMENT**

ISSUE DATE: DECEMBER 01, 2023

REVISION SCHEDULE		
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CONTENTS:  
**INTERIOR  
 ELEVATIONS**

SCALE: 1/4" = 1'-0"  
 DRAWN: Author  
 CHECKED: Checker  
 PROJECT NO: 2022021.000

SHEET:  
**A5.1**





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 DEVELOPMENT**

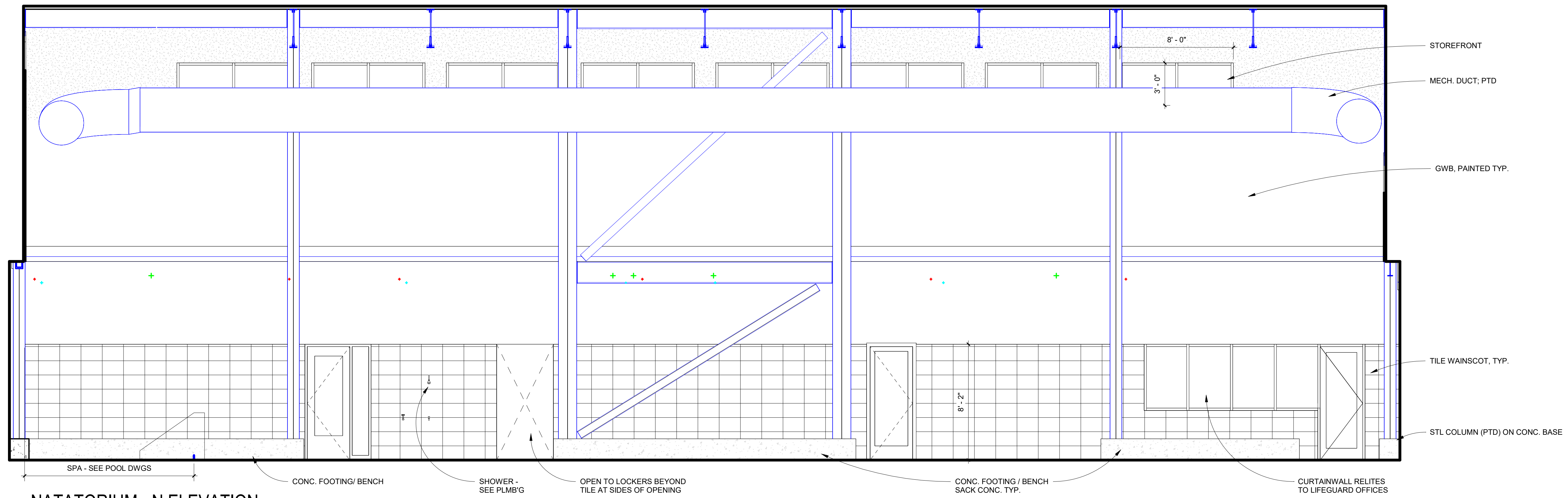
ISSUE DATE: DECEMBER 01, 2023

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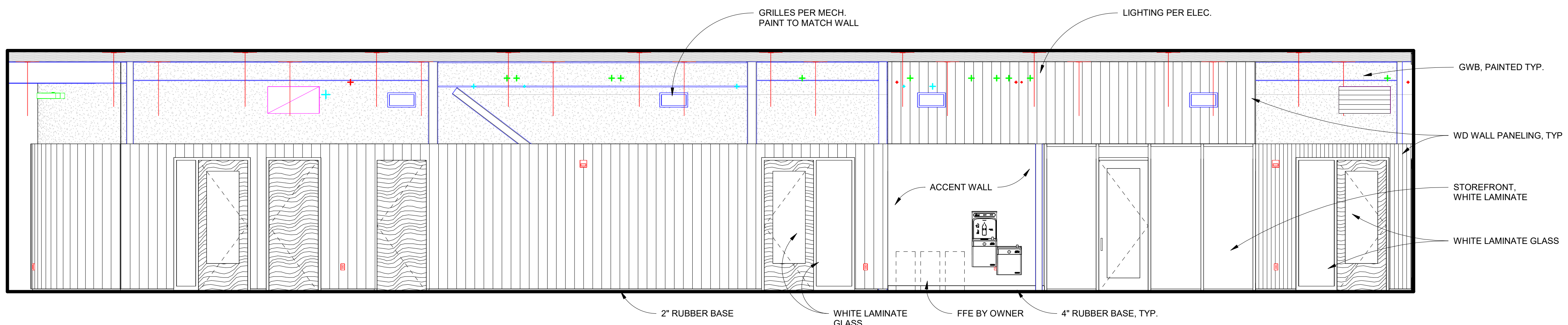
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**INTERIOR  
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 DRAWN: Author  
 CHECKED: Checker  
 PROJECT NO: 202201.000

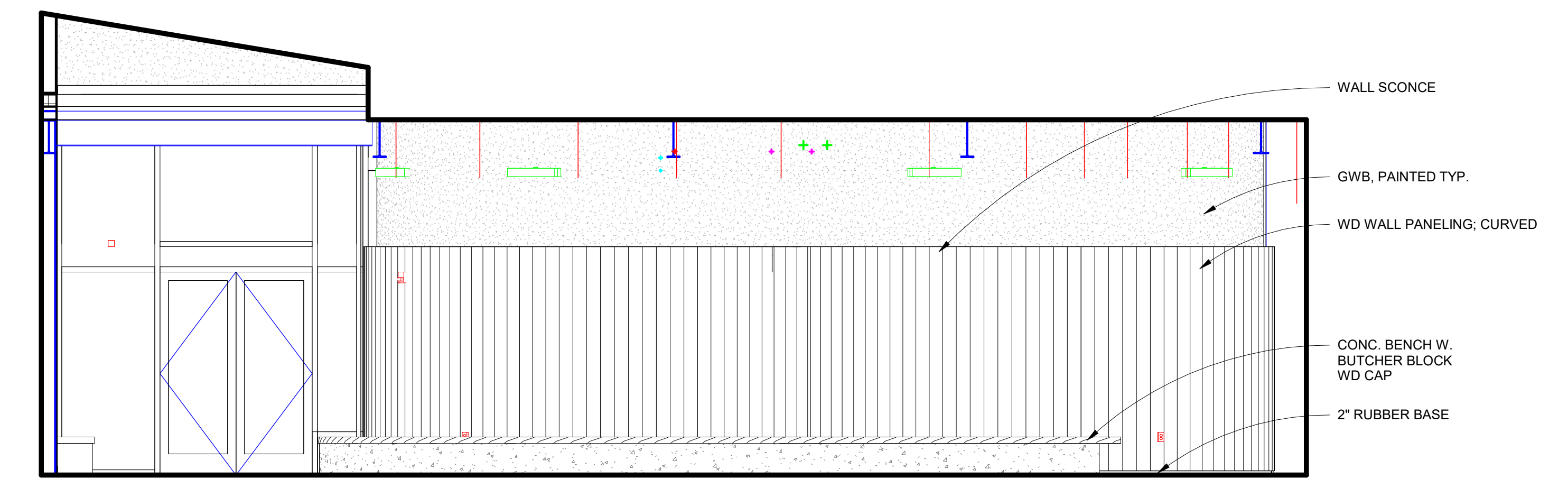
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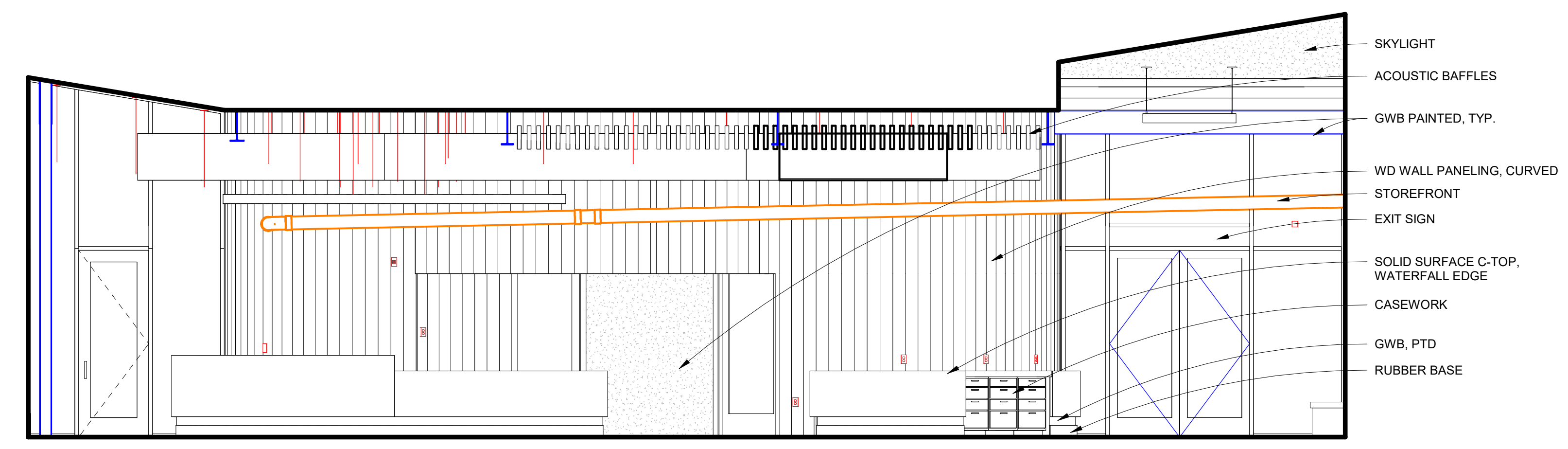
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 1/4" = 1'-0"



**1 LOCKER CORRIDOR S ELEV**  
 1/4" = 1'-0"

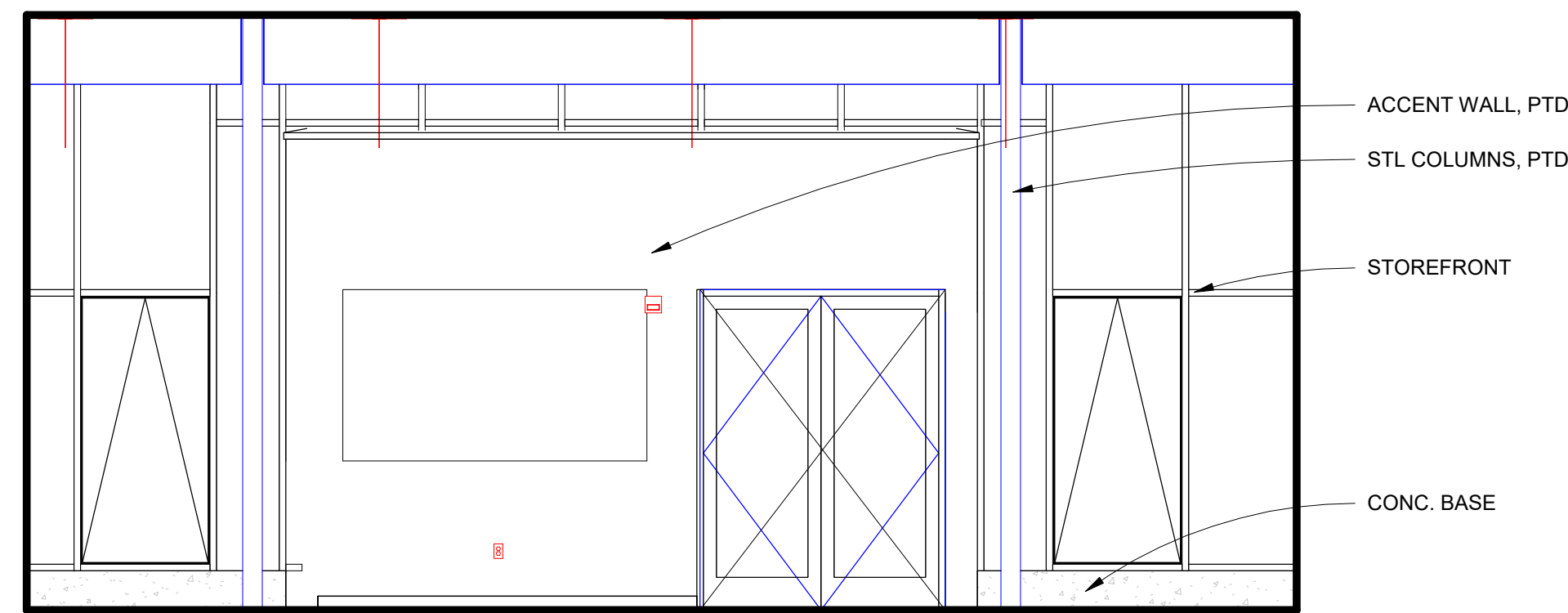


**2 LOBBY W ELEV**  
 1/4" = 1'-0"

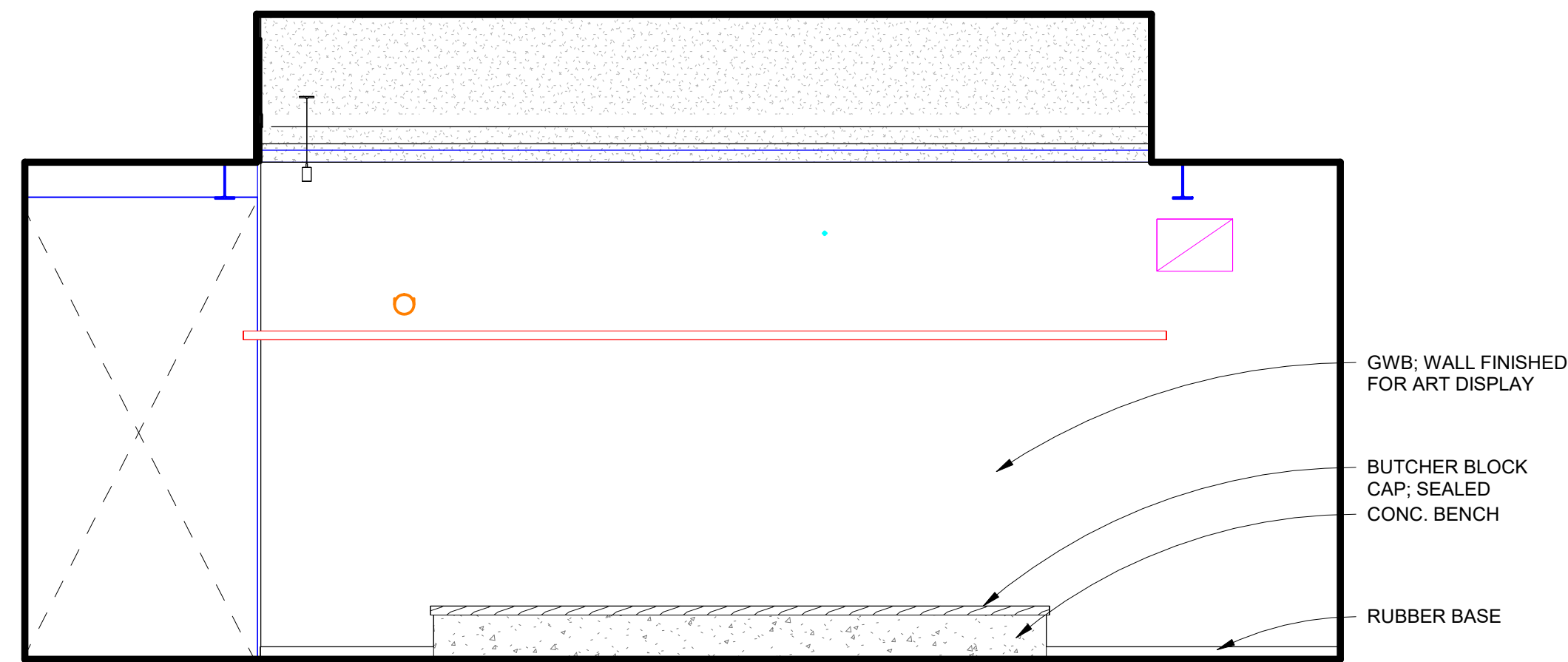


**3 LOBBY E ELEV**  
 1/4" = 1'-0"

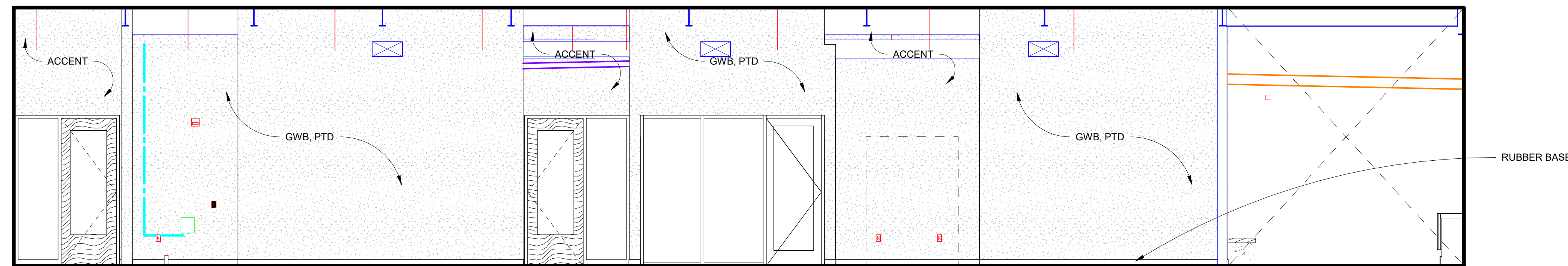




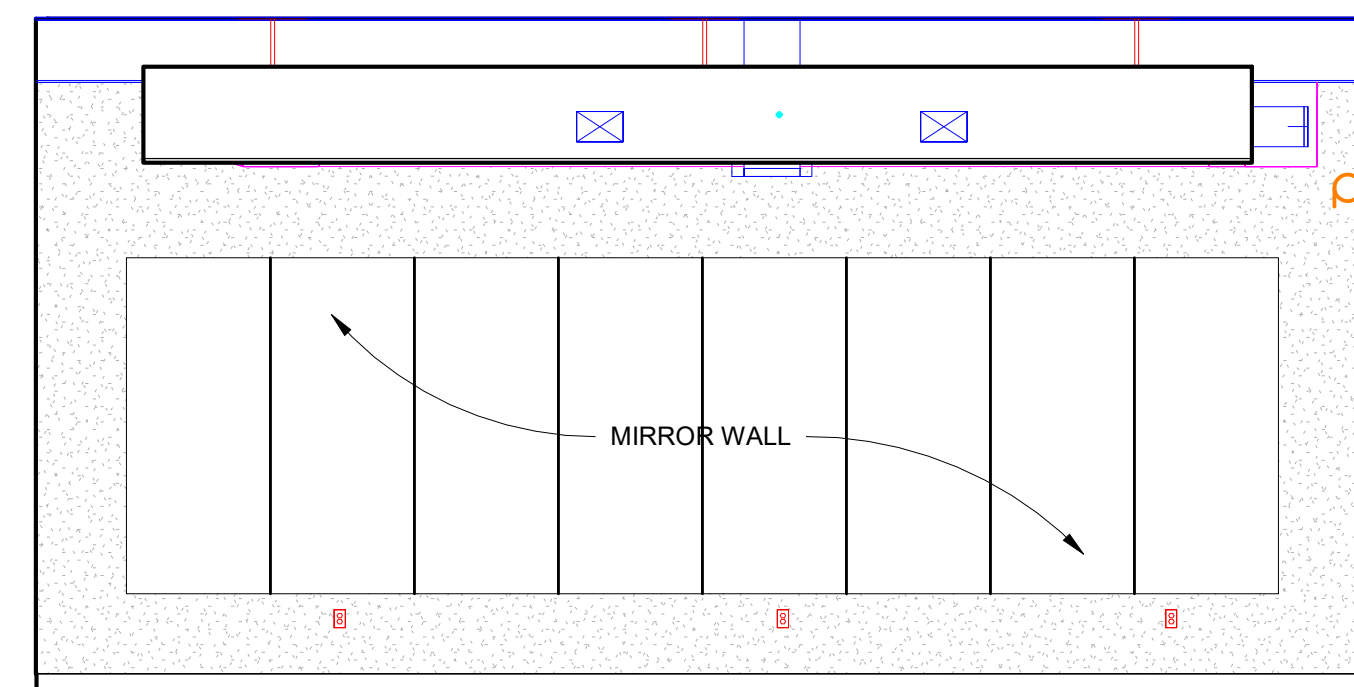
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 1/4" = 1'-0"



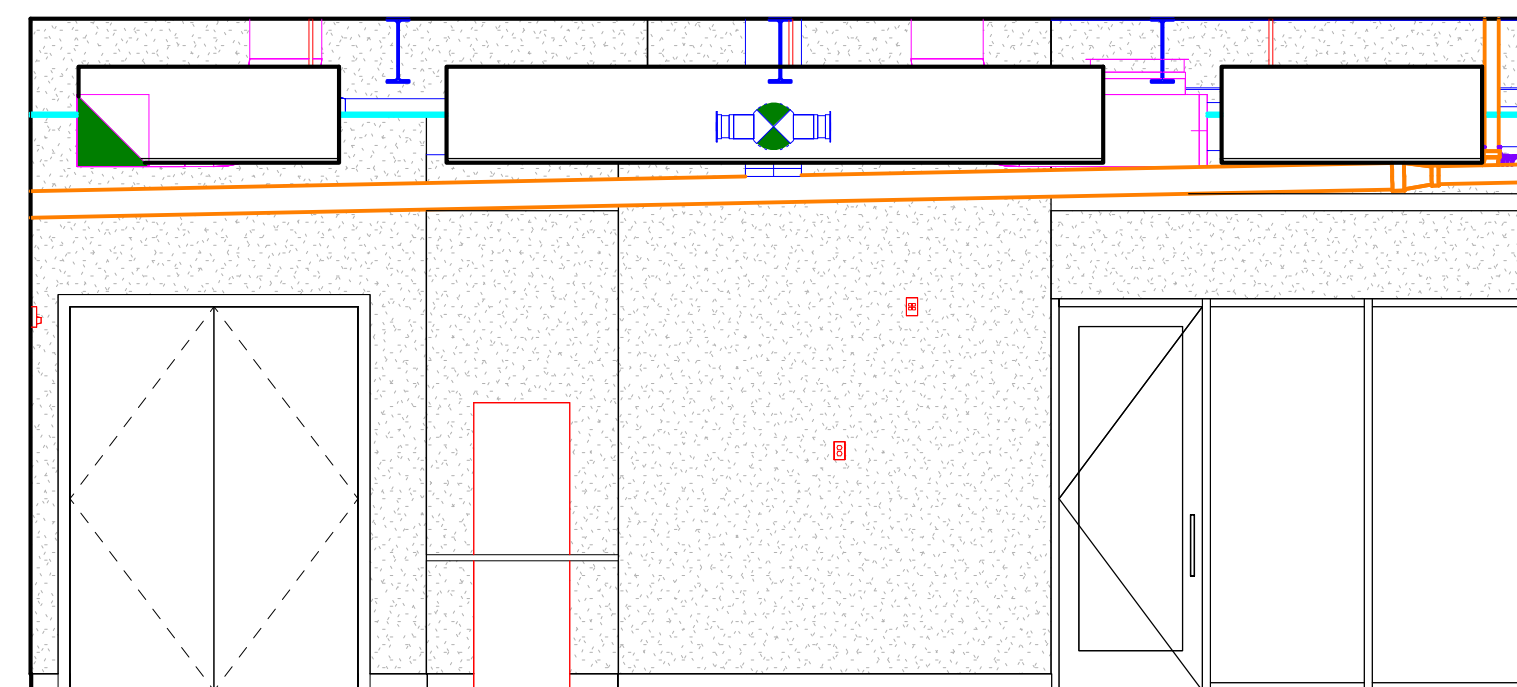
3 LOBBY S ELEV  
 1/4" = 1'-0"



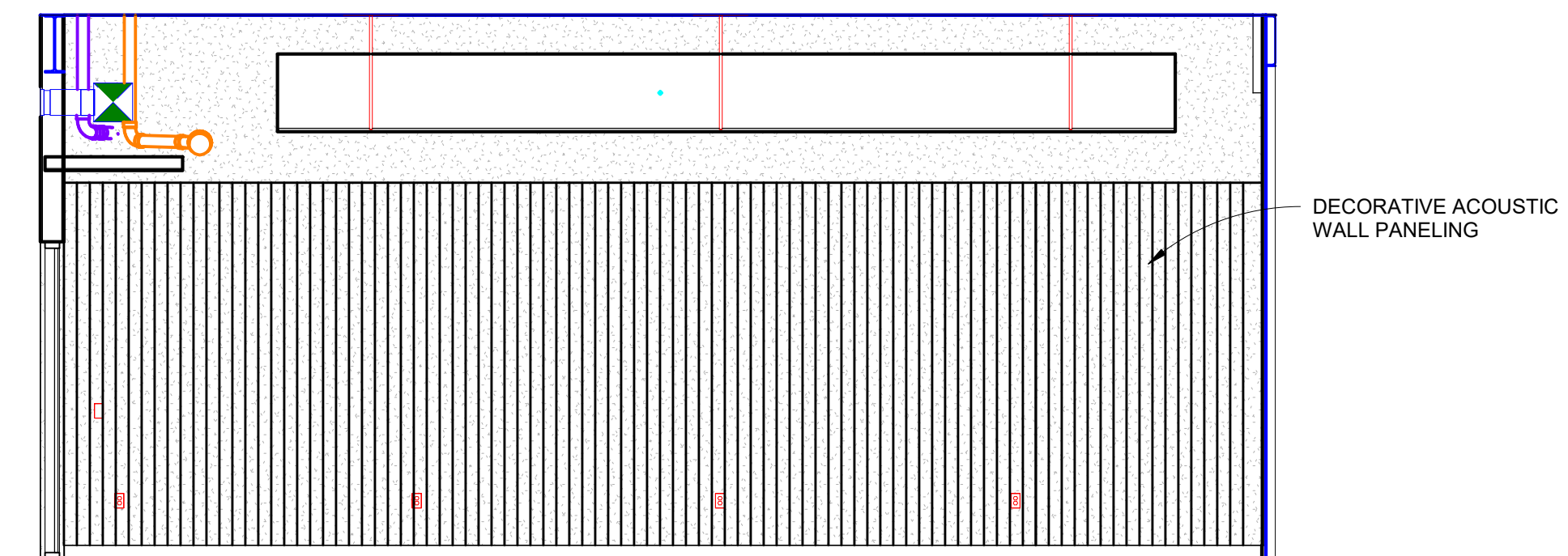
1 ACTIVITY CORRIDOR WEST  
 1/4" = 1'-0"



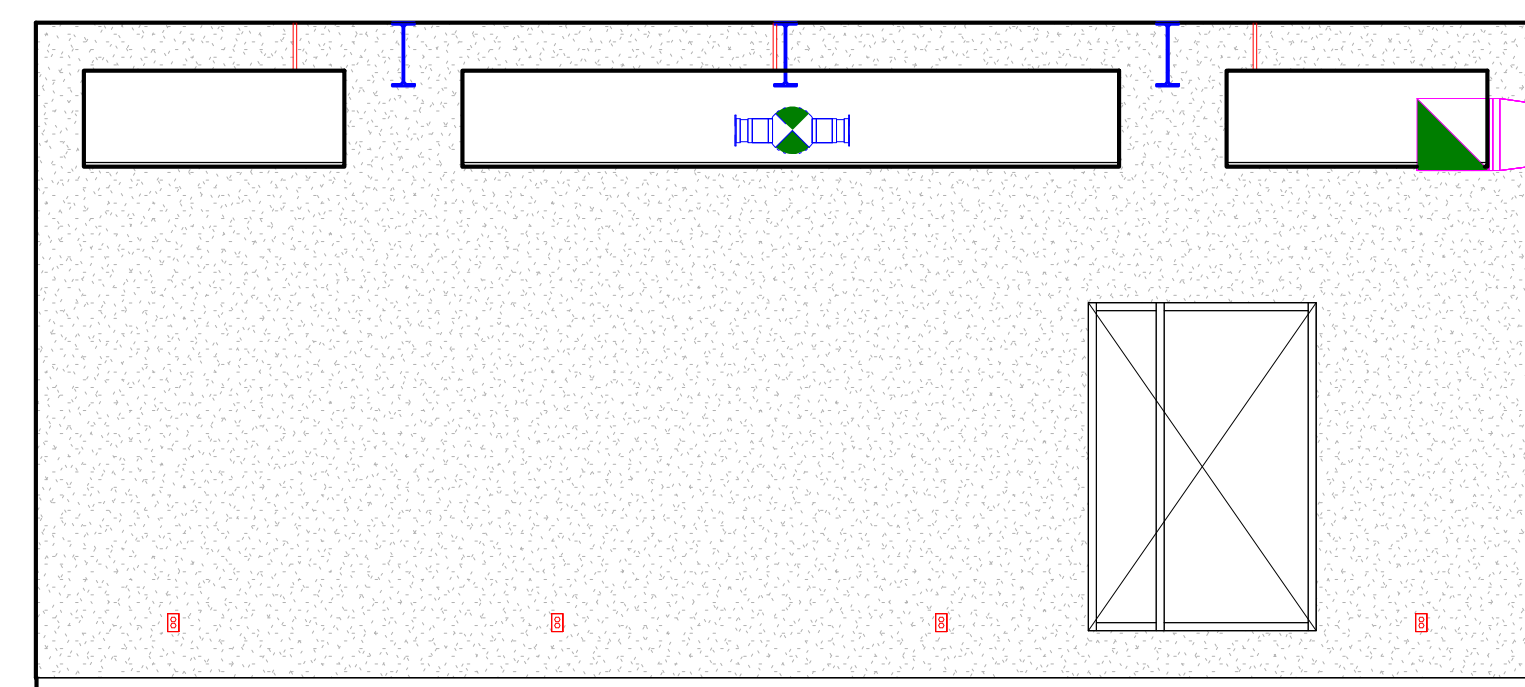
5 FITNESS - NORTH  
 1/4" = 1'-0"



4 FITNESS - EAST  
 1/4" = 1'-0"



6 FITNESS - SOUTH  
 1/4" = 1'-0"



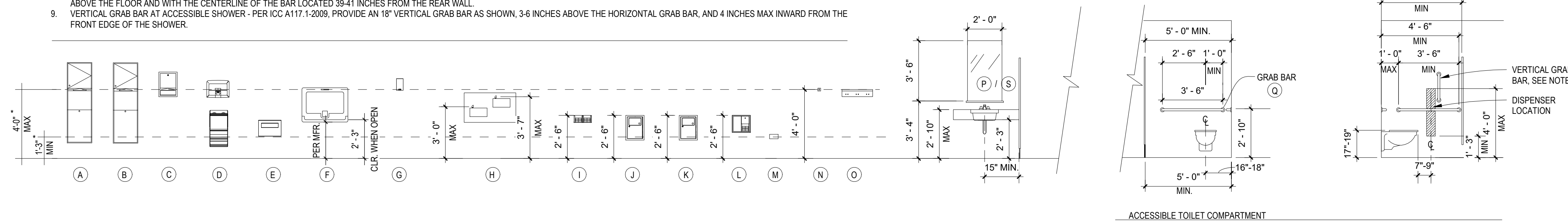
7 FITNESS - WEST  
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REVISION SCHEDULE		
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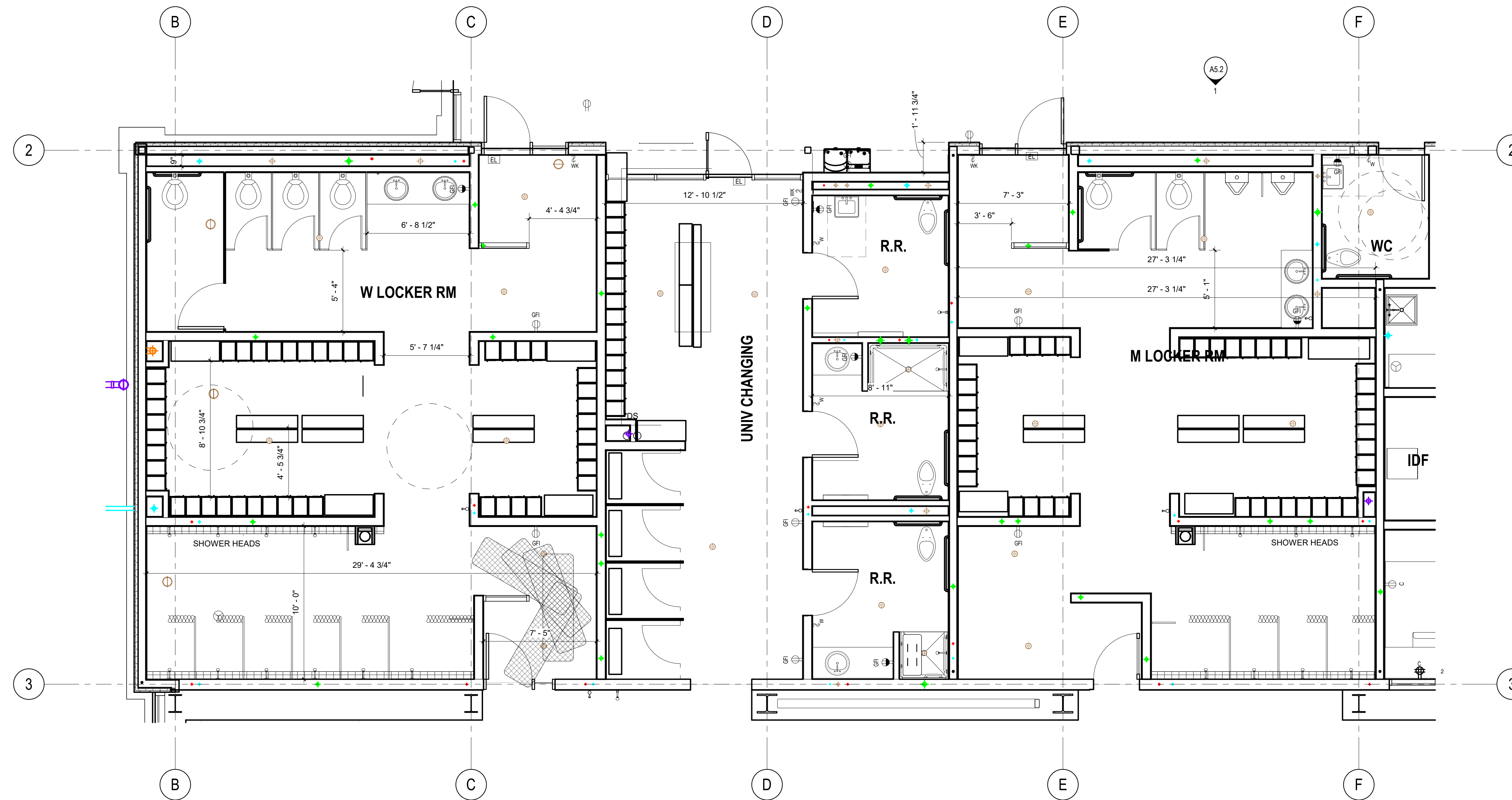
- LEGEND**
- A COMBINATION TOWEL DISPENSER / WASTE RECEPTACLE - RECESSED
  - B COMBINATION TOWEL DISPENSER / WASTE RECEPTACLE - SURFACE MOUNTED
  - C PAPER TOWEL DISPENSER
  - D WARM-AIR HAND DRYER
  - E TOILET SEAT COVER DISPENSER
  - F DIAPER CHANGING STATION
  - G LIQUID SOAP DISPENSER
  - H DRINKING FOUNTAINS
  - I TOILET PAPER DISPENSER W/ STORAGE FOR EXTRA ROLL
  - J RECESSED SANITARY NAPKIN DISPOSAL UNIT
  - K SURFACE MOUNTED SANITARY NAPKIN DISPOSAL UNIT
  - L MULTI-ROLL TOILET TISSUE DISPENSER
  - M TOILET PAPER HOLDER
  - N TOWEL HOOK
  - O UTILITY SHELF W/ MOP/BROOM HOLDERS AND RAG HOOKS
  - P MIRROR
  - Q GRAB BAR
  - R SHOWER BENCH
  - S MIRROR W/ MEDICINE CABINET
  - T TOWEL SHELF
  - U TOWEL BAR

- NOTES**
1. MAX AND MIN DIMENSIONS ARE FOR UNOBSTRUCTED FORWARD AND SIDE REACH RANGES PER SECTION 308 OF THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN.
  2. DIMENSIONS ARE TAKEN FROM FINISH FLOOR TO THE OPERABLE PART OF RECEPTACLE, U.O.N
  3. DRINKING FOUNTAINS - DIMENSION TO SPOUT OUTLETS
  4. LAVATORIES - DIMENSION TO TOP OF RIM OR COUNTER SURFACE, WHICHEVER IS HIGHER.
  5. MIRROR ABOVE LAVATORIES - DIMENSION TO BOTTOM OF REFLECTING SURFACE.
  6. GRAB BARS - DIMENSION TO TOP OF GRIPPING SURFACE.
  7. PROVIDE BLOCKING AS REQUIRED FOR ATTACHMENT OF ALL ACCESSORIES.
  8. VERTICAL GRAB BAR AT ACCESSIBLE TOILET - PER ICC A117.1-2009, PROVIDE AN 18" VERTICAL GRAB BAR AS SHOWN, WITH THE BOTTOM OF THE BAR LOCATED 39-41 INCHES ABOVE THE FLOOR AND WITH THE CENTERLINE OF THE BAR LOCATED 39-41 INCHES FROM THE REAR WALL.
  9. VERTICAL GRAB BAR AT ACCESSIBLE SHOWER - PER ICC A117.1-2009, PROVIDE AN 18" VERTICAL GRAB BAR AS SHOWN, 3-6 INCHES ABOVE THE HORIZONTAL GRAB BAR, AND 4 INCHES MAX INWARD FROM THE FRONT EDGE OF THE SHOWER.



**1 TYPICAL RESTROOM ACCESSORIES**  
 SCALE: 1/4" = 1'-0"

SEE SPECIFICATIONS FOR ADDITIONAL ACCESSORY INFORMATION



**1 ENLARGED LOCKER ROOM PLAN**  
 1/4" = 1'-0"

**S WHIDBEY PARKS & REC  
 AQUATIC REC CENTER**

PD 812720 MAXWELTON RD  
 LANGLEY, WA 98260



**100% DESIGN  
 DEVELOPMENT**

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**CONTENTS:**  
 RESTROOM PLANS  
 AND INTERIOR  
 ELEVATIONS

SCALE: 1/4" = 1'-0"  
 DRAWN: Author  
 CHECKED: Checker  
 PROJECT NO: 2022021.000

SHEET:  
**A5.4**



**CEILING PLAN NOTES:**

- REFER TO T.1.0 FOR GENERAL NOTES.
- ALL GWB CEILINGS AND SOFFITS ARE SUSPENDED ON CEILING JOISTS OF DESIGN. BUILD COLD FORMED METAL FRAMING. REFER TO SPECIFICATION SECTION 05 40 00 "COLD FORMED METAL FRAMING" AND STRUCTURAL NOTES.
- SEE ELECTRICAL AND MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION, INCLUDING DEVICES NOT SHOWN ON THESE DRAWINGS.
- MECHANICAL EQUIPMENT SHOWN FOR COORDINATION ONLY. NOTIFY ARCHITECT OF ANY CONFLICTS OF TRADES BEFORE PROCEEDING.
- FOR LIGHTING AND ELECTRICAL DEVICES, FIRE ALARM, SECURITY CAMERAS AND SIMILAR DEVICES MOUNTED TO EXPOSED CEILINGS OR UNDERSIDE OF EXTERIOR ROOFS - ROUTE CONDUITS ABOVE THE ROOF SHEATING AND TEMPORARY ROOFING.
- MOTORIZED SHADES @ WINDOWS NOT SHOWN. REFER TO SPECIFICATIONS FOR LOCATIONS & QUANTITIES REQUIRED. SEE ELEVATIONS FOR HEIGHTS OF WINDOWS. COORDINATE WITH ELECTRICAL.
- CEILING DESTRATIFICATION FAN LOCATIONS ARE DIAGRAMMATIC. COORDINATION FINAL PLACEMENT WITH ARCHITECT.
- REFER TO FINISH SCHEDULE FOR FINISHES INCLUDING, BUT NOT LIMITED TO THOSE AT CEILINGS, EXPOSED STRUCTURE, EXPOSED DUCTS AND EXPOSED PIPING.
- PAINT ALL EXPOSED DUCTWORK, PIPING, INSULATION WRAPS, ETC., U.N.O.

**LEGEND**

	ROOM NAME		ELEVATION		DRAWING #
	ROOM NUMBER		BUILDING OR WALL SECTION		DRAWING #
	EXIT SIGN - SEE ELEC.		DETAILS		DETAIL #
	MECHANICAL DIFFUSER		ELEVATION - HEIGHT OF MATERIAL		
	MECHANICAL DIFFUSER		FIRE SPRINKLER LINES DIAGRAMMATIC LAYOUT		
			SEE FINISH SCHEDULE FOR MORE INFO.		
			GWB		
			EXPOSED STRUCT. (O.T.S. - SEE NOTES)		
			2' X 2' ACOUSTIC CEILING TILE		
			ACOUSTIC CLOUD CEILING		
			ACOUSTIC WAVE CEILING		
			ACOUSTIC BAFFLES		

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 LANGLEY, WA 98260



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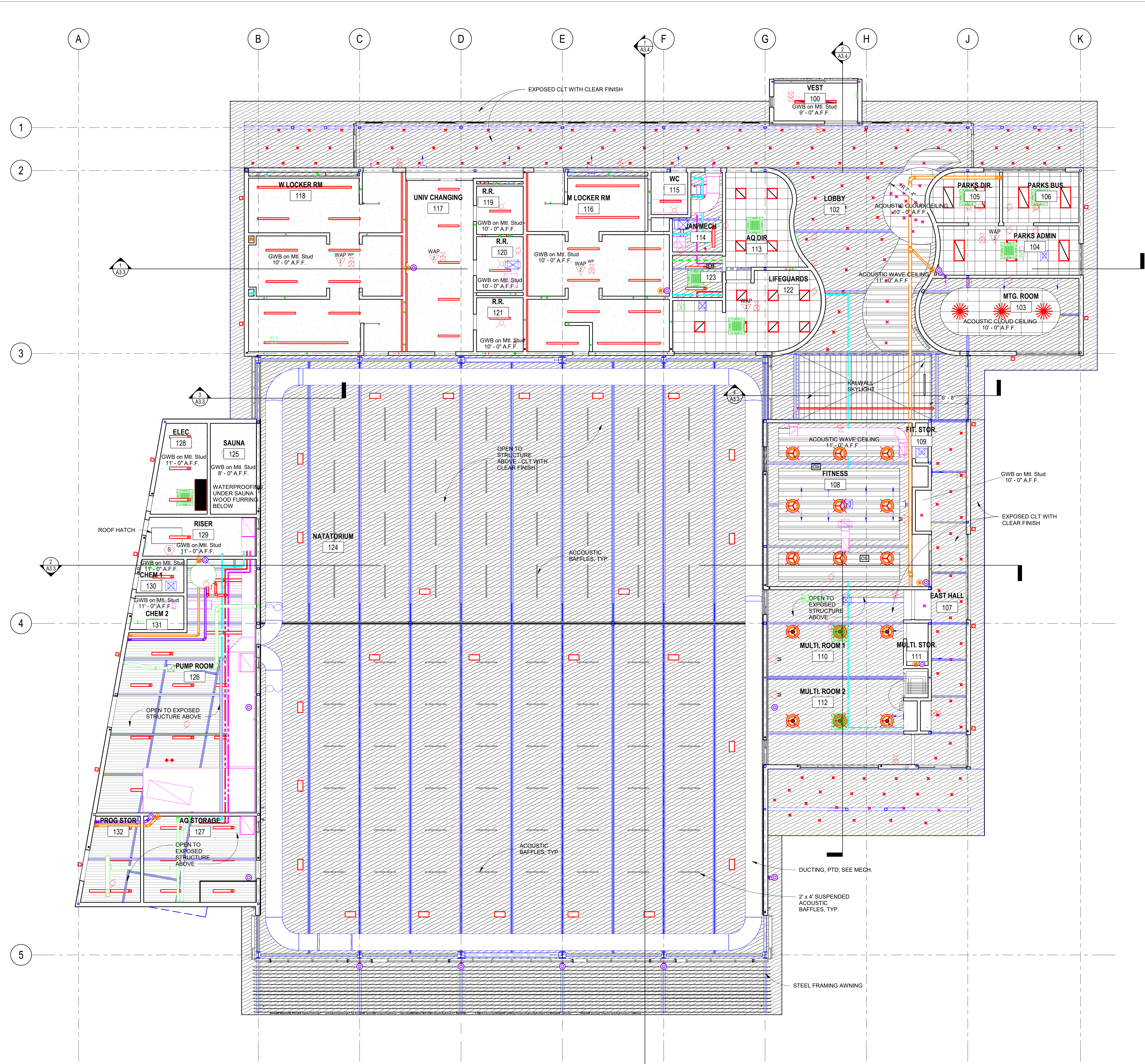
ISSUE DATE: DECEMBER 01, 2023

REVISION SCHEDULE		
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CONTENTS:  
**REFLECTED CEILING PLAN**

SCALE: As Indicated  
 DRAWN: Author  
 CHECKED: Checker  
 PROJECT NO. 2022021.000

SHEET:  
**A6.1**



**1 LEVEL 1 - T.O. SLAB**  
 1/8" = 1'-0"



INTERIOR PARTITION SCHEDULE

	STUD SIZE (2x4)	STUD SIZE (2x6)	STUD SIZE (2x8)	STUD SIZE (2x10)
GWB LAYERS (1)	<p>STC RATING = 35/39</p> <p>5/8" GWB - ONE SIDE 4" STEEL STUD @ 16" O.C. ACOUSTIC BATT INSULATION WHERE OCCURS PER FLOOR PLAN, SEE ACOUSTIC NOTES 1" TYPE S DRYWALL SCREWS, 8" O.C. VERTICAL JOINTS - 12" O.C. @ WALL PERIMETER AND INTERMEDIATE STUDS</p>	<p>STC RATING = 35/39</p> <p>5/8" GWB - ONE SIDE 6" STEEL STUD @ 16" O.C. ACOUSTIC BATT INSULATION WHERE OCCURS PER FLOOR PLAN, SEE ACOUSTIC NOTES 1" TYPE S DRYWALL SCREWS, 8" O.C. VERTICAL JOINTS - 12" O.C. @ WALL PERIMETER AND INTERMEDIATE STUDS</p>	<p>STC RATING = 35/39</p> <p>5/8" GWB - ONE SIDE 8" STEEL STUD @ 16" O.C. ACOUSTIC BATT INSULATION WHERE OCCURS PER FLOOR PLAN, SEE ACOUSTIC NOTES 1" TYPE S DRYWALL SCREWS, 8" O.C. VERTICAL JOINTS - 12" O.C. @ WALL PERIMETER AND INTERMEDIATE STUDS</p>	<p>STC RATING = 35/39</p> <p>5/8" GWB - ONE SIDE 10" STEEL STUD @ 16" O.C. ACOUSTIC BATT INSULATION WHERE OCCURS PER FLOOR PLAN, SEE ACOUSTIC NOTES 1" TYPE S DRYWALL SCREWS, 8" O.C. VERTICAL JOINTS - 12" O.C. @ WALL PERIMETER AND INTERMEDIATE STUDS</p>
GWB LAYERS (2)	<p>STC RATING = 40/45</p> <p>5/8" GWB - EACH SIDE 4" STEEL STUD @ 16" O.C. ACOUSTIC BATT INSULATION WHERE OCCURS PER FLOOR PLAN, SEE ACOUSTIC NOTES 1" TYPE S DRYWALL SCREWS, 8" O.C. VERTICAL JOINTS - 12" O.C. @ WALL PERIMETER AND INTERMEDIATE STUDS JOINTS STAGGERED 32" EACH LAYER AND SIDE</p>	<p>STC RATING = 40/45</p> <p>5/8" GWB - TYPE X, EACH SIDE 6" STEEL STUD @ 16" O.C. ACOUSTIC BATT INSULATION WHERE OCCURS PER FLOOR PLAN, SEE ACOUSTIC NOTES 1" TYPE S DRYWALL SCREWS, 8" O.C. VERTICAL JOINTS - 12" O.C. @ WALL PERIMETER AND INTERMEDIATE STUDS JOINTS STAGGERED 32" EACH LAYER AND SIDE</p>	<p>STC RATING = 40/45</p> <p>5/8" GWB - EACH SIDE 8" STEEL STUD @ 16" O.C. ACOUSTIC BATT INSULATION WHERE OCCURS PER FLOOR PLAN, SEE ACOUSTIC NOTES 1" TYPE S DRYWALL SCREWS, 8" O.C. VERTICAL JOINTS - 12" O.C. @ WALL PERIMETER AND INTERMEDIATE STUDS JOINTS STAGGERED 32" EACH LAYER AND SIDE</p>	<p>STC RATING = 40/45</p> <p>5/8" GWB - EA SIDE 10" STEEL STUD @ 16" O.C. - SEE STRUCT. ACOUSTIC BATT INSULATION WHERE OCCURS PER FLOOR PLAN, SEE ACOUSTIC NOTES 1" TYPE S DRYWALL SCREWS, 8" O.C. VERTICAL JOINTS - 12" O.C. @ WALL PERIMETER AND INTERMEDIATE STUDS JOINTS STAGGERED 32" EACH LAYER AND SIDE</p>
GWB LAYERS (3)	<p>STC RATING = 50</p> <p>(2) LAYERS 5/8" GWB - ONE SIDE 5/8" GWB - ONE SIDE 4" STEEL STUD @ 16" O.C. ACOUSTIC BATT INSULATION WHERE OCCURS PER FLOOR PLAN, SEE ACOUSTIC NOTES 1" TYPE S DRYWALL SCREWS, 8" O.C. VERTICAL JOINTS - 12" O.C. @ WALL PERIMETER AND INTERMEDIATE STUDS JOINTS STAGGERED 32" EACH LAYER AND SIDE</p>	<p>STC RATING = 50</p> <p>(2) LAYERS 5/8" GWB - ONE SIDE 5/8" GWB - ONE SIDE 6" STEEL STUD @ 16" O.C. ACOUSTIC BATT INSULATION WHERE OCCURS PER FLOOR PLAN, SEE ACOUSTIC NOTES 1" TYPE S DRYWALL SCREWS, 8" O.C. VERTICAL JOINTS - 12" O.C. @ WALL PERIMETER AND INTERMEDIATE STUDS JOINTS STAGGERED 32" EACH LAYER AND SIDE</p>	<p>STC RATING = 55</p> <p>(2) LAYERS 5/8" GWB - ONE SIDE 5/8" GWB - ONE SIDE 8" STEEL STUD @ 16" O.C. ACOUSTIC BATT INSULATION WHERE OCCURS PER FLOOR PLAN, SEE ACOUSTIC NOTES 1" TYPE S DRYWALL SCREWS, 8" O.C. VERTICAL JOINTS - 12" O.C. @ WALL PERIMETER AND INTERMEDIATE STUDS JOINTS STAGGERED 32" EACH LAYER AND SIDE</p>	<p>STC RATING = 50</p> <p>(2) LAYERS 5/8" GWB - ONE SIDE 5/8" GWB - ONE SIDE 10" STEEL STUD @ 16" O.C. - SEE STRUCT. ACOUSTIC BATT INSULATION WHERE OCCURS PER FLOOR PLAN, SEE ACOUSTIC NOTES 1" TYPE S DRYWALL SCREWS, 8" O.C. VERTICAL JOINTS - 12" O.C. @ WALL PERIMETER AND INTERMEDIATE STUDS JOINTS STAGGERED 32" EACH LAYER AND SIDE</p>
GWB LAYERS (4)	<p>STC RATING = 55</p> <p>(2) LAYERS 5/8" GWB - EACH SIDE 4" STEEL STUD @ 16" O.C. ACOUSTIC BATT INSULATION WHERE OCCURS PER FLOOR PLAN, SEE ACOUSTIC NOTES 1" TYPE S DRYWALL SCREWS, 8" O.C. VERTICAL JOINTS - 12" O.C. @ WALL PERIMETER AND INTERMEDIATE STUDS JOINTS STAGGERED 32" EACH LAYER AND SIDE</p>	<p>STC RATING = 55</p> <p>(2) LAYERS 5/8" GWB - EACH SIDE 6" STEEL STUD @ 16" O.C. ACOUSTIC BATT INSULATION WHERE OCCURS PER FLOOR PLAN, SEE ACOUSTIC NOTES 1" TYPE S DRYWALL SCREWS, 8" O.C. VERTICAL JOINTS - 12" O.C. @ WALL PERIMETER AND INTERMEDIATE STUDS JOINTS STAGGERED 32" EACH LAYER AND SIDE</p>	<p>STC RATING = 55</p> <p>(2) LAYERS 5/8" GWB - EACH SIDE 8" STEEL STUD @ 16" O.C. ACOUSTIC BATT INSULATION WHERE OCCURS PER FLOOR PLAN, SEE ACOUSTIC NOTES 1" TYPE S DRYWALL SCREWS, 8" O.C. VERTICAL JOINTS - 12" O.C. @ WALL PERIMETER AND INTERMEDIATE STUDS JOINTS STAGGERED 32" EACH LAYER AND SIDE</p>	<p>STC RATING = 55</p> <p>(2) LAYERS 5/8" GWB - EACH SIDE 10" STEEL STUD @ 16" O.C. - SEE STRUCT. ACOUSTIC BATT INSULATION WHERE OCCURS PER FLOOR PLAN, SEE ACOUSTIC NOTES 1" TYPE S DRYWALL SCREWS, 8" O.C. VERTICAL JOINTS - 12" O.C. @ WALL PERIMETER AND INTERMEDIATE STUDS JOINTS STAGGERED 32" EACH LAYER AND SIDE</p>
GWB LAYERS (4)	<p>STC RATING = 65</p> <p>(2) LAYERS 5/8" GWB - EACH SIDE 4" STEEL STUD @ 16" O.C. STAGGERED IN A 6" TRACK ACOUSTIC BATT INSULATION WHERE OCCURS PER FLOOR PLAN, SEE ACOUSTIC NOTES 1" TYPE S DRYWALL SCREWS, 8" O.C. VERTICAL JOINTS - 12" O.C. @ WALL PERIMETER AND INTERMEDIATE STUDS JOINTS STAGGERED 32" EACH LAYER AND SIDE</p>	<p>STC RATING = 65</p> <p>(2) LAYERS 5/8" GWB - EACH SIDE 6" STEEL STUD @ 16" O.C. STAGGERED IN AN 8" TRACK ACOUSTIC BATT INSULATION WHERE OCCURS PER FLOOR PLAN, SEE ACOUSTIC NOTES 1" TYPE S DRYWALL SCREWS, 8" O.C. VERTICAL JOINTS - 12" O.C. @ WALL PERIMETER AND INTERMEDIATE STUDS JOINTS STAGGERED 32" EACH LAYER AND SIDE</p>	<p>STC RATING = 65</p> <p>(2) LAYERS 5/8" GWB - EACH SIDE 8" STEEL STUD @ 16" O.C. STAGGERED IN AN 10" TRACK ACOUSTIC BATT INSULATION WHERE OCCURS PER FLOOR PLAN, SEE ACOUSTIC NOTES 1" TYPE S DRYWALL SCREWS, 8" O.C. VERTICAL JOINTS - 12" O.C. @ WALL PERIMETER AND INTERMEDIATE STUDS JOINTS STAGGERED 32" EACH LAYER AND SIDE</p>	<p>STC RATING = 65</p> <p>(2) LAYERS 5/8" GWB - EACH SIDE 10" STEEL STUD @ 16" O.C. STAGGERED IN AN 12" TRACK ACOUSTIC BATT INSULATION WHERE OCCURS PER FLOOR PLAN, SEE ACOUSTIC NOTES 1" TYPE S DRYWALL SCREWS, 8" O.C. VERTICAL JOINTS - 12" O.C. @ WALL PERIMETER AND INTERMEDIATE STUDS JOINTS STAGGERED 32" EACH LAYER AND SIDE</p>

PARTITION SCHEDULE NOTES:

1. PLAN INDICATORS AND PARTITION TYPES ARE N.T.S.
2. SEE STRUCTURAL FOR LOAD BEARING AND SHEAR WALL LOCATIONS. SHEATHING IS NOT SHOWN ON INTERIOR PARTITION SCHEDULE - PROVIDE SHEATHING PER STRUCTURAL.
3. COORDINATE SHEARWALL LOCATIONS WITH PARTITION TYPES INDICATED. IF A CONDITION OCCURS WHERE A SHEATHING LAYER OCCURS ALONG A PORTION OF A CONTINUOUS WALL, CONTINUE THE SHEATHING TO THE NEXT INTERIOR OR EXTERIOR CORNER SUCH THAT THERE IS NO JOG ON THE SURFACE OF THE WALL.
4. ACOUSTIC PARTITIONS: FILL WITH BATT INSULATION FOR "SOUND CONTROL". U.O.N. THE THICKNESS SHALL BE FULL WIDTH OF STUDS. SECURE INSULATION TO PREVENT SAGGING AND SEAL PERIMETER PER GYPSUM ASSOCIATION DESIGN MANUAL - SEE SPECIFICATION FOR JOINT SEALANTS, STAGGER AND SEAL ALL ELECTRICAL OUTLETS. EXTEND GWB TO UNDERSIDE OF DECK - TYP. WHERE PARTITIONS SEAL TO A ROUGH OR CORRUGATED SURFACE, CLOSURE STRIPS ARE REQUIRED.
5. ALL WALLS EXTEND TO BOTTOM OF DECK, U.O.N. - SEE INTERIOR ELEVATIONS. GLASS-MAT BOARD MAY BE SUBSTITUTED FOR GWB AT ABOVE-CEILING LOCATIONS, EXCEPT WHERE CEILING IS A FLOATING "CLOUD" (DOES NOT EXTEND TO WALL).
6. AT NON-LOAD BEARING WALLS THAT EXTEND TO STRUCTURE OR DECK ABOVE, FURNISH SLIP CONNECTION AT TOP OF WALL THAT ALLOWS 1-1/2" MIN. DIFFERENTIAL DEFLECTION OF STRUCTURE ABOVE, U.N.O.
7. WHERE TWO OR MORE LAYERS OF GWB ARE USED, DO NOT CEMENT GWB TO THE INITIAL LAYER. USE NAILS OR SCREWS. STAGGER LAYERED BOARD JOINTS PER INTERIOR PARTITION SCHEDULE.
8. PARTITION SCHEDULE REFERS TO INTERIOR PARTITION AND FURRED WALL. CONDITIONS ONLY REFER TO BUILDING SECTIONS AND DETAILS FOR EXTERIOR WALL CONSTRUCTION ASSEMBLIES.
9. FIRE RATED WALL CONSTRUCTION IS REQUIRED WHERE NOTED ON FLOOR PLANS AND BUILDING SECTIONS.



100% DESIGN DEVELOPMENT

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REVISION SCHEDULE		
Rev #	Date	Description

CONTENTS:  
**WALL TYPE SCHEDULES**

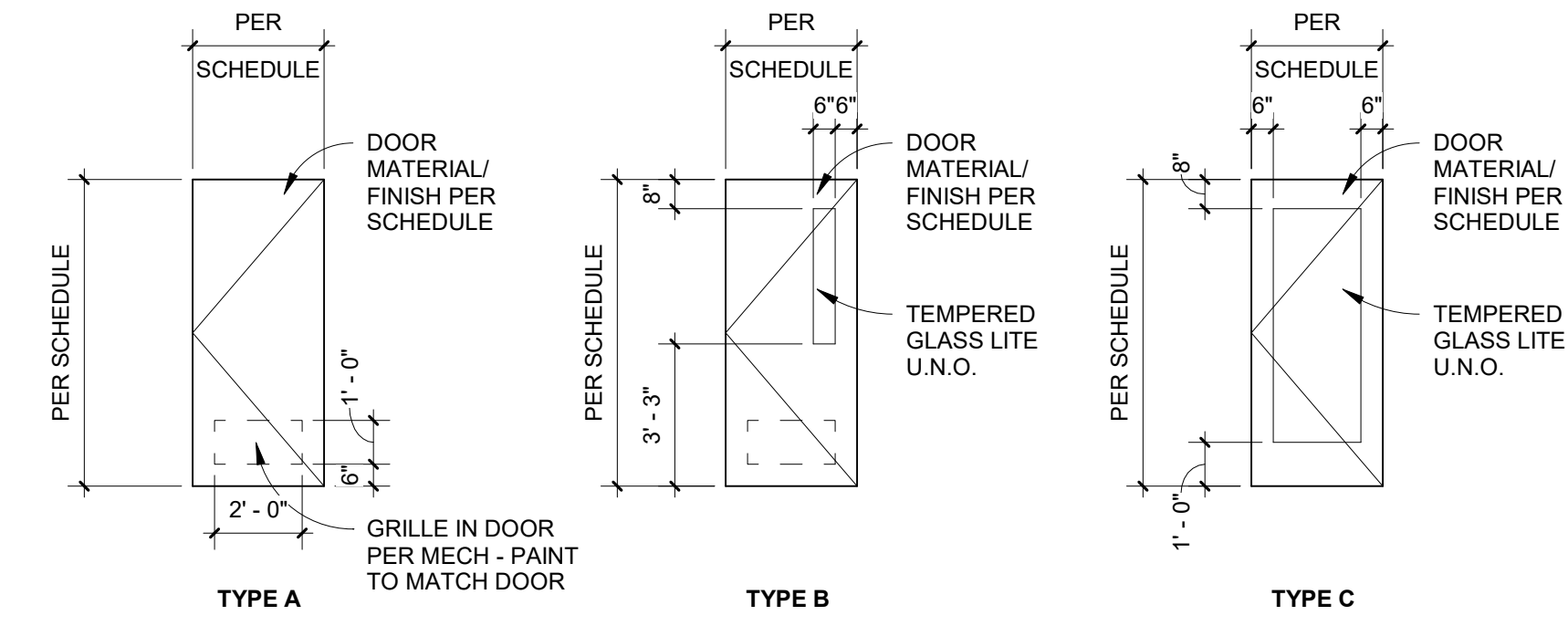
SCALE: **As Indicated**  
DRAWN: Author  
CHECKED: Checker  
PROJECT NO: 202201.000

SHEET:  
**A7.1**

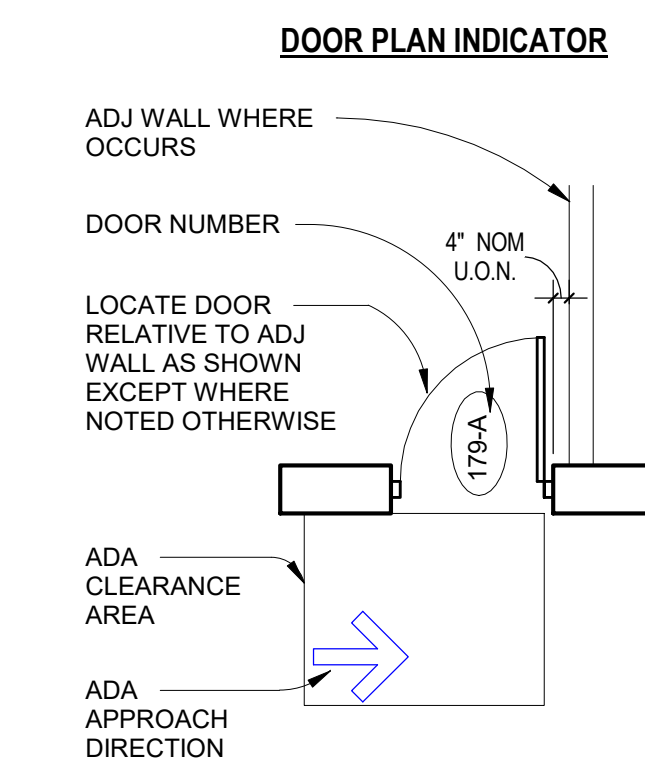


DOOR SCHEDULE											
ROOM NAME	NUMBER	TYPE	DOOR		FRAME					PAIR	COMMENTS
			OPENING WIDTH	HEIGHT	MATERIAL	FINISH	TYPE	MATERIAL	FINISH		
VEST	100	TYPE C	6'-0"	8'-0"	AL	FF	N/A	AL	FF	YES	
INDOOR FOREST	101A	TYPE C	6'-0"	8'-0"	AL	FF	N/A	AL	FF	YES	
INDOOR FOREST	101B	TYPE C	3'-0"	8'-0"	AL	FF	N/A	AL	FF		
INDOOR FOREST	101C	TYPE C	3'-0"	8'-0"	AL	FF	N/A	AL	FF		
LOBBY	102	TYPE C	6'-0"	8'-0"	AL	FF	N/A	AL	FF	YES	
MTG. ROOM	103	TYPE C	3'-0"	8'-0"	AL	FF	TYPE 1	AL	FF		
PARKS ADMIN	104	TYPE C	3'-0"	8'-0"	AL	FF	TYPE 1	AL	FF		
PARKS DIR.	105	TYPE C	3'-0"	8'-0"	AL	FF	N/A	AL	FF		
PARKS BUS.	106	TYPE C	3'-0"	8'-0"	AL	FF	N/A	AL	FF		
EAST HALL	107	TYPE C	3'-0"	8'-0"	AL	FF	N/A	AL	FF		
FITNESS	108	TYPE C	3'-0"	8'-0"	AL	FF	N/A	AL	FF		
FIT. STOR	109	TYPE A	6'-0"	8'-0"	HM	PT	TYPE 1	HM	PT	YES	
MULTI ROOM 1	110A	TYPE C	3'-0"	8'-0"	AL	FF	N/A	AL	FF		
MULTI ROOM 1	110B	TYPE C	3'-0"	8'-0"	AL	FF	N/A	AL	FF		
MULTI STOR	111	TYPE A	3'-0"	8'-0"	HM	PT	TYPE 1	HM	PT		
MULTI ROOM 2	112A	TYPE C	3'-0"	8'-0"	AL	FF	N/A	AL	FF		
MULTI ROOM 2	112B	TYPE C	3'-0"	8'-0"	AL	FF	N/A	AL	FF		
AQ DIR	113	TYPE C	3'-0"	8'-0"	AL	FF	N/A	AL	FF		
JAN/MECH	114	TYPE A	3'-0"	8'-0"	ST	WD	TYPE 1	HM	PT		
WC	115	TYPE A	3'-0"	8'-0"	ST	WD	TYPE 1	HM	PT		
M LOCKER RM	116A	TYPE C	3'-0"	8'-0"	AL	FF	N/A	AL	FF		
M LOCKER RM	116B	TYPE C	3'-0"	8'-0"	AL	FF	TYPE 1	AL	FF		
UCH	117	TYPE C	3'-0"	8'-0"	AL	FF	N/A	AL	FF		
W LOCKER RM	118A	TYPE C	3'-0"	8'-0"	AL	FF	N/A	AL	FF		
W LOCKER RM	118B	TYPE C	3'-0"	8'-0"	AL	FF	N/A	AL	FF		
RR	119	TYPE A	3'-0"	8'-0"	FG	FF	TYPE 1	FG	FF		
RR	120	TYPE A	3'-0"	8'-0"	FG	FF	TYPE 1	FG	FF		
RR	121	TYPE A	3'-0"	8'-0"	FG	FF	TYPE 1	FG	FF		
LIFEGUARDS	122A	TYPE C	3'-0"	8'-0"	AL	FF	N/A	AL	FF		
LIFEGUARDS	122B	TYPE C	3'-0"	8'-0"	AL	FF	N/A	AL	FF		
IDF	123	TYPE A	3'-0"	8'-0"	FG	FF	TYPE 1	FG	FF		
NATORIUM	124A	TYPE A	6'-0"	8'-0"	AL	FF	N/A	AL	FF	YES	
NATORIUM	124B	TYPE A	6'-0"	8'-0"	AL	FF	N/A	AL	FF	YES	
NATORIUM	124C	TYPE D	0'-0"	0'-0"	AL	FF	N/A	AL	FF		
NATORIUM	124D	TYPE D	0'-0"	0'-0"	AL	FF	N/A	AL	FF		
NATORIUM	124E	TYPE D	0'-0"	0'-0"	AL	FF	N/A	AL	FF		
NATORIUM	124F	TYPE D	0'-0"	0'-0"	AL	FF	N/A	AL	FF		
NATORIUM	124G	TYPE C	6'-0"	8'-0"	AL	FF	N/A	AL	FF	YES	
SAUNA	125	TYPE C	3'-0"	8'-0"	AL	FF	TYPE 1	AL	FF		
PUMP ROOM	126A	TYPE A	3'-0"	8'-0"	FG	FF	TYPE 1	FG	FF		
PUMP ROOM	126B	TYPE A	6'-0"	8'-0"	FG	FF	TYPE 2	FG	FF	YES	
ELEC	128	TYPE A	3'-0"	8'-0"	FG	FF	TYPE 1	FG	FF		
RISER	129	TYPE A	3'-0"	8'-0"	FG	FF	TYPE 1	FG	FF		
CHEM 1	130	TYPE A	3'-0"	8'-0"	FG	FF	TYPE 1	FG	FF		
CHEM 2	131	TYPE A	3'-0"	8'-0"	FG	FF	TYPE 1	FG	FF		
PROG STOR	132	TYPE A	6'-0"	8'-0"	FG	FF	TYPE 2	FG	FF	YES	
AQ STORAGE	206	TYPE A	3'-6"	8'-0"	FG	FF	TYPE 1	FG	FF		

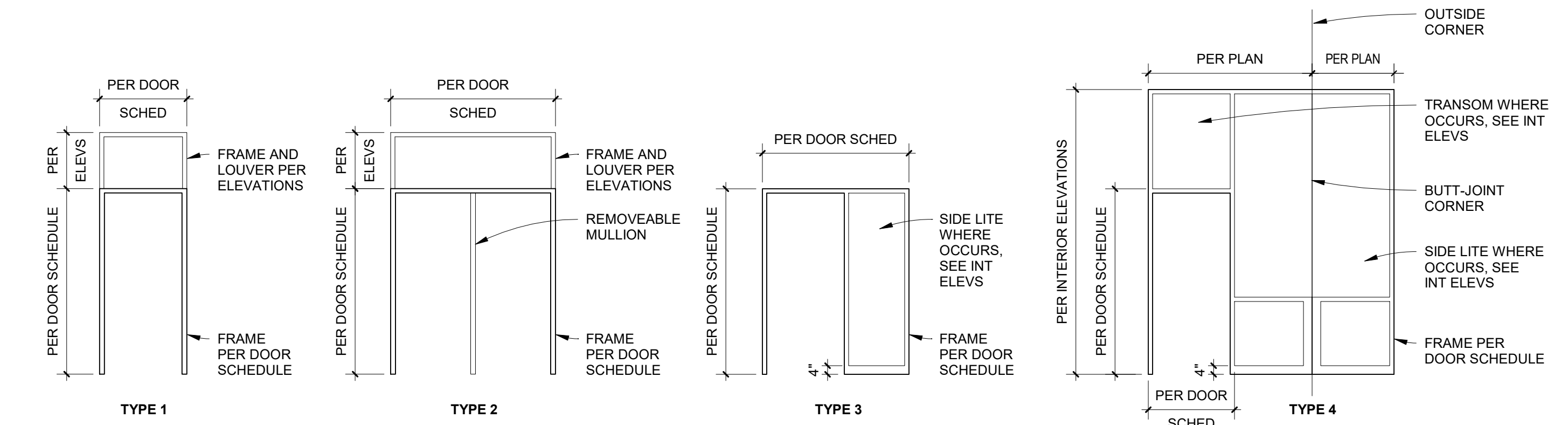
### DOOR TYPE SCHEDULE



### DOOR PLAN INFO



### FRAME TYPE SCHEDULE



### DOOR TYPES

**DOOR & FRAME MATERIAL:**  
 HM = HOLLOW METAL  
 AL = ALUMINUM  
 WD = WOOD  
 FG = FIBERGLASS  
 GL = GLASS

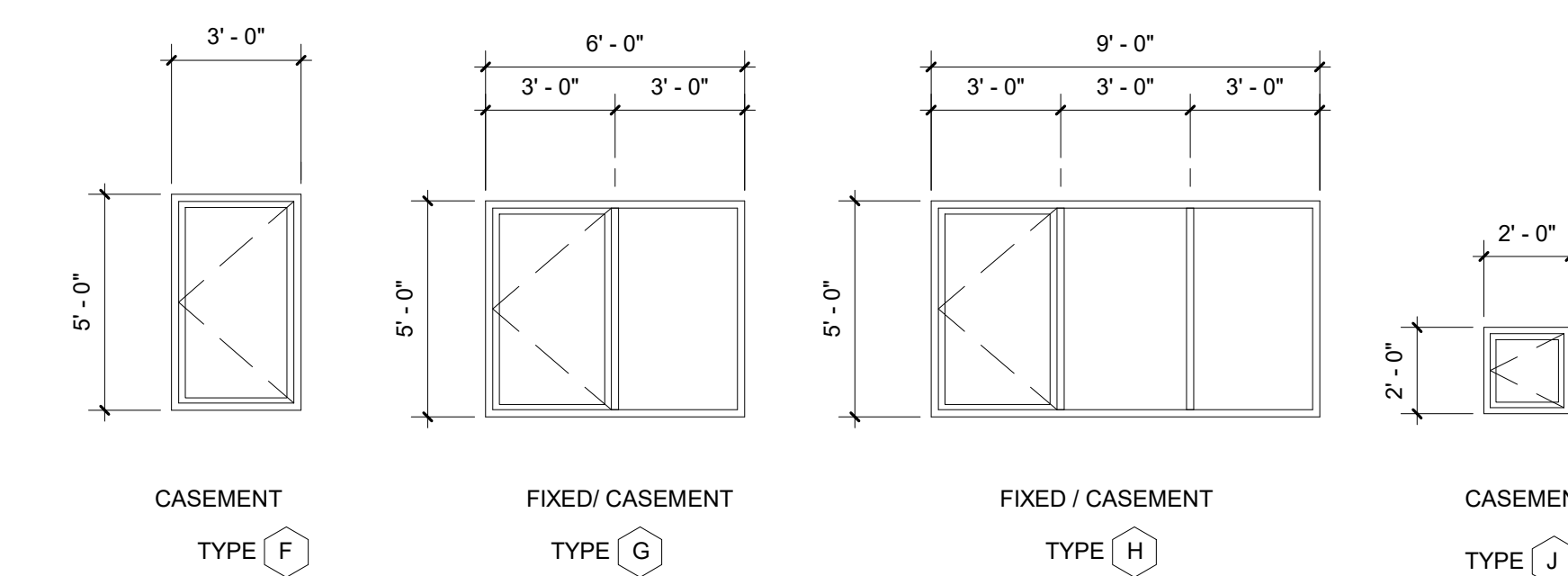
**DOOR & FRAME FINISH:**  
 PT = METAL FIELD PAINTED  
 ANOD = ANODIZED  
 FF = FACTORY FINISHED  
 ST = STAIN  
 CL = CLEAR FINISH

**GLAZING:**  
 SEE INTERIOR AND EXTERIOR ELEVATIONS FOR LOCATIONS OF TEMPERED & LAMINATED GLAZING

**COMMENTS - AS INDICATED**  
 NA = NOT APPLICABLE  
 PH = PANIC HARDWARE/EXIT DOOR  
 VIF = VERIFY OPENING WIDTH IN FIELD  
 AO = AUTO OPEN  
 AC = ACCESS CONTROL

### DOOR / FRAME GENERAL NOTES

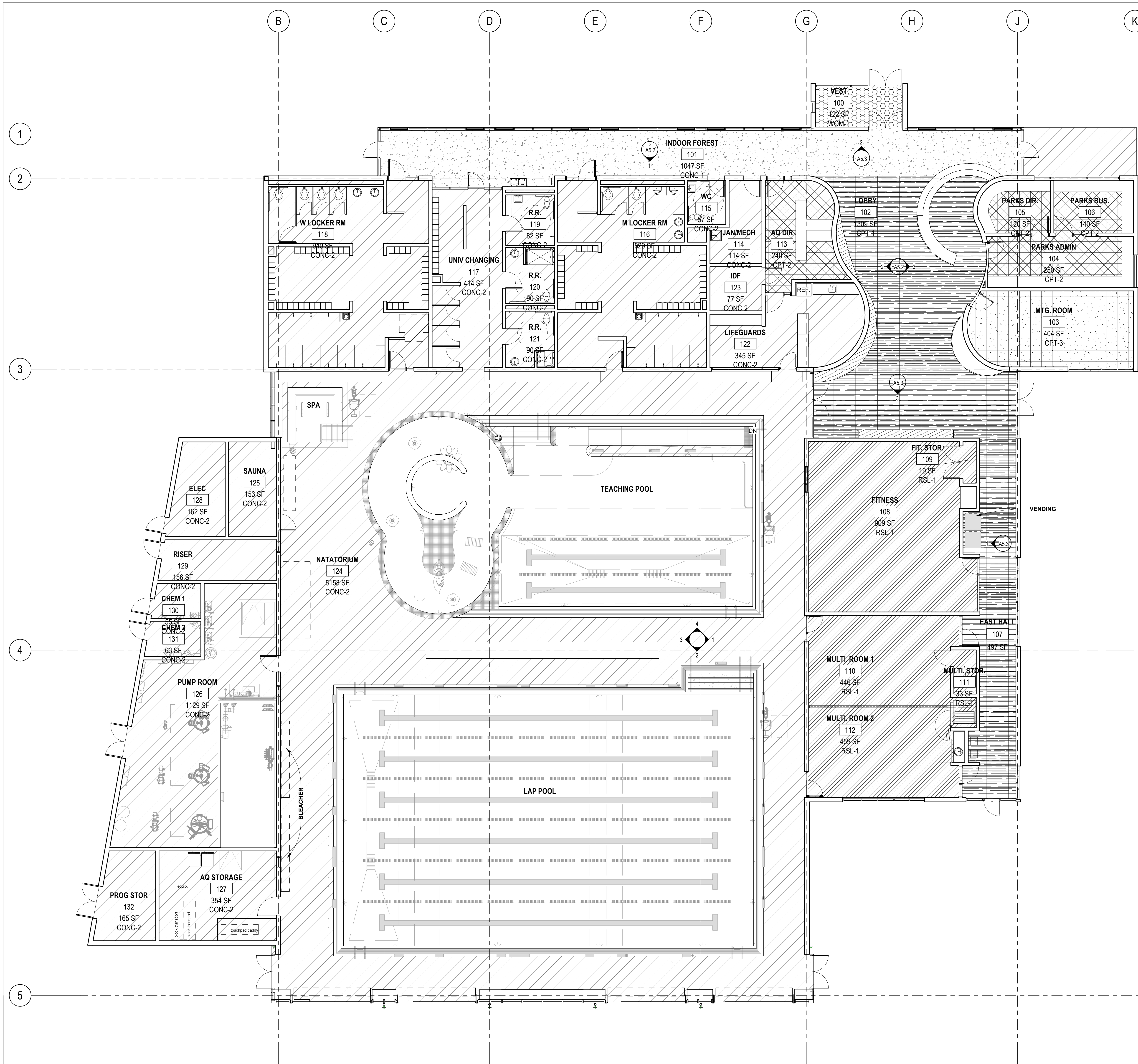
- ALSO SEE INTERIOR AND EXTERIOR ELEVATIONS FOR DOOR AND RELITE FRAME DETAIL CALLOUTS.
- TO DETERMINE FRAME DEPTH, SEE PARTITION SCHEDULE FOR WALL CONSTRUCTION AND STRUCTURAL DRAWINGS FOR PLYWOOD SHEATHING THICKNESS AND LOCATIONS.
- FIRE DOORS SHALL BE EQUIPPED W/ APPROVED LATCHES AND SELF-CLOSING DEVICES; REFER TO FINISH HARDWARE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- THE OPENING AND CLOSING FORCE OF ALL INTERIOR SWINGING OR SLIDING DOORS WITH OR WITHOUT CLOSERS SHALL REQUIRE NO GREATER THAN 5 POUNDS OF FORCE TO MEET ACCESSIBILITY REQUIREMENTS DESCRIBED IN ANSI A117.1-1998.
- REFER TO EXTERIOR ELEVATIONS FOR LOUVERS LOCATED IN HM OR ALUMINUM FRAMES.
- REFER TO ELECTRICAL DRAWINGS FOR CARD READER, BADGE READER, SECURITY ALARMS, AND SIMILAR SECURITY DEVICES AT DOORS.
- EXIT DOORS IN CURTAINWALL SYSTEMS HAVE A THICKENED HEAD MULLION FOR EXIT LIGHT SIGNAGE MOUNTING. SEE INTERIOR ELEVATIONS FOR EXACT QUANTITY AND LOCATIONS.
- AT CURTAINWALL FRAME TYPES, SEE ELEVATIONS FOR FRAME CONFIGURATION (NOT FRAME TYPE SCHEDULE ABOVE)



WINDOW TYPES  
 1/4" = 1'-0"

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**FINISH PLAN NOTES:**

1. PAINT AT GWB WALLS TO BE PT-1, SATIN FINISH, U.N.O.
2. PAINT AT INTERIOR EXPOSED METAL DECK CEILINGS TO BE PT-2, U.N.O.
3. PAINT ALL EXPOSED CONDUITS, UNISTRUCT, DUCTWORK, ETC. TO MATCH CEILINGS, U.N.O.
4. FABRIC DUCTWORK IS NOT FIELD PAINTED AND IS TO BE PROTECTED DURING PAINTING.
5. PAINT AT LOCKER ROOMS AND RESTROOMS TO BE EPOXY PAINT. PAINT CEILINGS AND SOFFITS PT-1 SEMI-GLOSS. PAINT WALLS PER FINISH PLAN.
6. ONLY EXPOSED CONTROL AND ISOLATION JOINTS SHOWN IN THESE PLANS; SEE STRUCTURAL FOR ADDITIONAL ISOLATION, CONSTRUCTION, AND CONTRACT JOINT INFORMATION.
7. FIRE TREATED PLYWOOD UP TO 8'-0" AT ALL WALLS OF ELEC. ROOM, U.N.O.

**FINISH GRAPHIC LEGEND**

- |  |  |
|--|--|
|  |  |
|  |  |
|  |  |
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**NOTES - ABBREVIATIONS**

- |  |  |
|--|--|
|  | EXTENT OF ACCENT PAINT                   |
|  | DIRECTION OF CARPET OR WOOD INSTALLATION |
|  | CORNER GUARD                             |
|  | CONTROL JOINT, SEE GENERAL NOTES         |
|  | FACTORY FINISH                           |
|  | FIELD APPLIED PAINT                      |
|  | HIGH PERFORMANCE COATING FIELD APPLIED   |
|  | STAINLESS STEEL                          |
|  | OPEN TO STRUCTURE                        |
|  | SUSPENDED WOOD SLAT CEILING              |
|  | STAIN                                    |

**S WHIDBEY PARKS & REC  
 AQUATIC REC CENTER**  
 PID 812720 MAXWELTON RD  
 LANGLEY, WA 98260



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ISSUE DATE: DECEMBER 01, 2023

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CONTENTS:  
**FINISH FLOOR  
 PLAN**

SCALE: As Indicated  
 DRAWN: LAP  
 CHECKED: PRC  
 PROJECT NO: 2022021.000

SHEET:  
**A10.1**

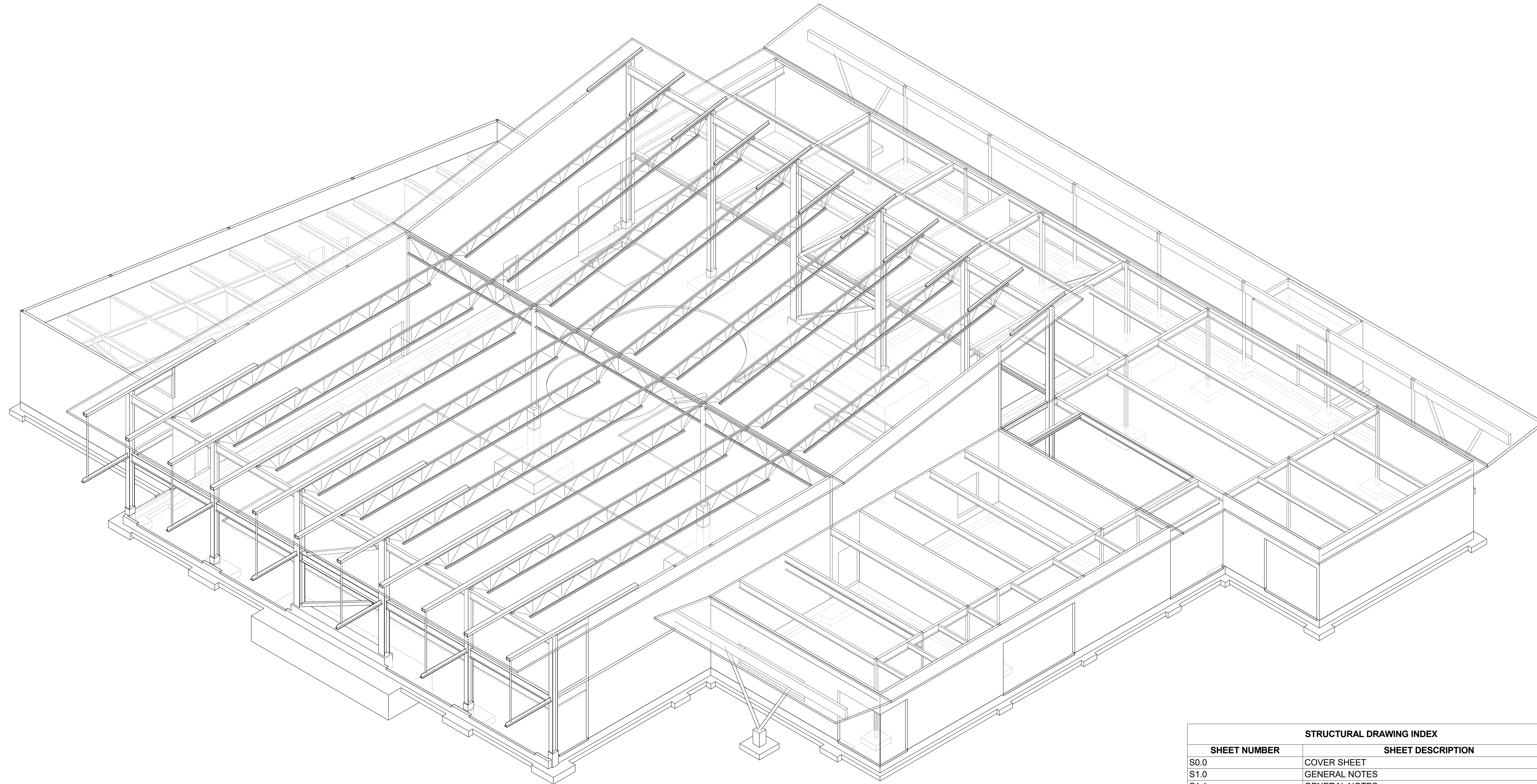
**1** LEVEL 1 FINISH PLAN  
 1/8" = 1'-0"











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**COVER SHEET**

SCALE:  
 DRAWN: DEN  
 CHECKED: JAD  
 PROJECT NO: 2022021.000

SHEET:  
**S0.0**

STRUCTURAL DRAWING INDEX	
SHEET NUMBER	SHEET DESCRIPTION
S0.0	COVER SHEET
S1.0	GENERAL NOTES
S1.1	GENERAL NOTES
S1.2	GENERAL NOTES
S1.5	WIND PRESSURE ROOF ZONES
S2.0	FOUNDATION PLAN
S2.1	LEVEL 1 FRAMING PLAN
S2.3	LOW ROOF FRAMING PLAN
S2.4	HIGH ROOF FRAMING PLAN
S3.0	TYPICAL CONCRETE SLAB-ON-GRADE DETAILS
S3.1	TYPICAL FOUNDATION DETAILS
S3.2	FOUNDATION DETAILS
S4.0	TYPICAL TIMBER DETAILS
S5.0	TYPICAL STEEL FRAMING DETAILS
S5.1	TYPICAL STEEL FRAMING DETAILS
S5.2	STEEL FRAMING DETAILS
S5.3	STEEL FRAMING DETAILS
S5.5	BRACED FRAME ELEVATIONS
S5.6	STEEL BRACED FRAME DETAILS
S7.0	TYPICAL COLD-FORMED STEEL FRAMING DETAILS
S7.1	TYPICAL COLD-FORMED STEEL FRAMING DETAILS
S7.2	TYPICAL COLD-FORMED STEEL FRAMING DETAILS
Grand total: 22	



GENERAL NOTES

THESE GENERAL NOTES ARE TO BE USED AS A SUPPLEMENT TO THE SPECIFICATIONS. ANY DISCREPANCIES FOUND AMONG THE DRAWINGS, THE SPECIFICATIONS, THESE GENERAL NOTES AND THE SITE CONDITIONS SHALL BE REPORTED TO THE ARCHITECT WHO SHALL CORRECT SUCH DISCREPANCY IN WRITING. ANY WORK DONE BY THE GENERAL CONTRACTOR AFTER DISCOVERY OF SUCH DISCREPANCY SHALL BE DONE AT THE GENERAL CONTRACTOR'S RISK.

CONSTRUCTION OBSERVATION BY THE STRUCTURAL ENGINEER IS FOR GENERAL CONFORMANCE WITH DESIGN ASPECTS ONLY AND IS NOT INTENDED IN ANY WAY TO REVIEW THE CONTRACTOR'S CONSTRUCTION PROCEDURES.

STANDARDS ALL METHODS, MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE 2018 INTERNATIONAL BUILDING CODE (IBC) AS AMENDED AND ADOPTED BY THE LOCAL BUILDING OFFICIAL OR APPLICABLE JURISDICTION.

CONTRACT DRAWINGS / DIMENSIONS

ARCHITECTURAL DRAWINGS ARE THE PRIME CONTRACT DRAWINGS. CONSULTANT DRAWINGS BY OTHER DISCIPLINES ARE SUPPLEMENTARY TO ARCHITECTURAL DRAWINGS. REPORT DIMENSIONAL OMISSIONS OR DISCREPANCIES BETWEEN ARCHITECTURAL DRAWINGS AND STRUCTURAL, MECHANICAL, ELECTRICAL OR CIVIL DRAWINGS TO ARCHITECT PRIOR TO PROCEEDING WITH WORK.

STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS. PRIMARY STRUCTURAL ELEMENTS ARE DIMENSIONED ON STRUCTURAL PLANS AND DETAILS AND OVERALL LAYOUT OF STRUCTURAL PORTION OF WORK. SOME SECONDARY ELEMENTS ARE NOT DIMENSIONED, SUCH AS WALL CONFIGURATIONS, INCLUDING EXACT DOOR AND WINDOW LOCATIONS, ALCOVES, SLAB SLOPES AND DEPRESSIONS, CURBS, ETC.

DESIGN CRITERIA

VERTICAL LOADS

Table with 4 columns: AREA, DESIGN DEAD LOAD, LIVE LOAD (2), CONCENTRATED LOADS. Rows include ROOF - METAL DECK, ROOF - 3-PLY CLT, ROOF - 5-PLY CLT, ROOF - 3-PLY CLT W/ SOLAR.

- (1) DRIFT AND UNBALANCED SNOW LOAD PER ASCE 7-16, CHAPTER 7.
(2) LIVE LOADS EXCEPT SNOW LOADS ARE REDUCED PER IBC SECTION 1607.11.

SNOW: (MINIMUM ROOF SNOW LOAD = 25 PSF)

- Pg = 15 PSF = GROUND SNOW LOAD
Pf = 0.7CeClspg = FLAT ROOF SNOW LOAD
Ps = CsPf = SLOPED ROOF SNOW LOAD
Is = 1.1 Ce = 1.0, Ct = 1.1, Cs = VARIES

LATERAL FORCES

LATERAL FORCES ARE TRANSMITTED BY DIAPHRAGM ACTION OF ROOF AND FLOORS TO BRACED FRAME OR SHEAR WALLS. LOADS ARE THEN TRANSFERRED TO FOUNDATION BY BRACED FRAME/SHEAR WALL ACTION WHERE ULTIMATE DISPLACEMENT IS RESISTED BY PASSIVE PRESSURE OF EARTH AND/OR SLIDING FRICTION.

LATERAL FORCE RESISTING SYSTEM: ALL MEMBERS AND CONNECTIONS REFERRED TO AS LATERAL FORCE RESISTING SYSTEM (LFRS) SHALL COMPLY WITH REQUIREMENTS OF THE SEISMIC FORCE RESISTING SYSTEM AND THE WIND FORCE RESISTING SYSTEM SET FORTH IN THE SPECIAL INSPECTION REQUIREMENTS OF IBC SECTION 1704 AND 1705, AND AS NOTED IN THE STATEMENT OF SPECIAL INSPECTIONS.

WIND

THE BUILDING MEETS THE CRITERIA TO USE THE 'ENCLOSED, PARTIALLY ENCLOSED, AND OPEN BUILDING OF ALL HEIGHTS PROCEDURE' PER ASCE 7-16.

- EXPOSURE CATEGORY = C
- BASIC WIND SPEED, (3 SEC. GUST), VULT = 105 MPH; VASD = 82 MPH
- RISK CATEGORY PER IBC TABLE 1604.5 = III
- TOPOGRAPHIC FACTOR Kz = 1.00
- GROUND ELEVATION FACTOR, Kd = 0.99
- INTERNAL PRESSURE COEFFICIENT (ENCLOSED) = ± 0.18
- FOR WIND UPLIFT MAP SEE SHEET
- COMPONENTS AND CLADDING LOADS, SEE THE FOLLOWING TABLES:

Table for ROOF SURFACES 1. Columns: EFFECTIVE WIND AREA, POSITIVE PRESSURES (PSF), NEGATIVE PRESSURES (PSF) for ZONE 3 and ALL ZONES.

Table for WALL SURFACES 1. Columns: EFFECTIVE WIND AREA, POSITIVE PRESSURE (PSF), NEGATIVE PRESSURE (PSF) for ZONE 2 and ALL ZONES.

Table for ROOF OVERHANGS 1. Columns: EFFECTIVE WIND AREA, NEGATIVE PRESSURE (PSF) for ZONE 1 and ALL ZONES.

- 1. VALUES SHOWN IN TABLE ARE GROSS ULTIMATE WIND PRESSURES.
2. WALL ZONES ARE AS DEFINED BY FIGURE 30.3-1 IN ASCE 7-16 FOR LOW RISE BUILDINGS.
3. ROOF ZONES ARE AS DEFINED BY FIGURES 30.3-2 THROUGH 30.3-7 IN ASCE 7-16 FOR LOW RISE BUILDINGS.

SEISMIC: (ASCE 7-16) V = Csw

WHERE Cs = (Sps / (R/Ie)) ; WITH

Equations for Cs MINIMUM, Cs MAXIMUM based on Sps, R, Ie, S1, S2, T1, T2.

SEISMIC IMPORTANCE FACTOR, Ie = 1.25
RISK CATEGORY OF BUILDING PER IBC TABLE 1604.5 = III
SPECTRAL RESPONSE ACCELERATIONS Ss = 1.423 & S1 = 0.510
SITE CLASS PER TABLE 20.3-1 = C

DESIGN SPECTRAL RESPONSE ACCELERATIONS S08 = 1.138 & S01 = 0.507
SEISMIC DESIGN CATEGORY = D
W = EFFECTIVE SEISMIC WEIGHT OF BUILDING = 1250 KIP
ANALYSIS PROCEDURE USED = EQUIVALENT LATERAL FORCE PROCEDURE
SEISMIC FORCE-RESISTING SYSTEM PER TABLE 12.2-1: STEEL SPECIAL CONCENTRICALLY BRACED FRAMES IN EAST-WEST DIRECTION

PIPES, DUCTS AND MECHANICAL EQUIPMENT SUPPORTED OR BRACED FROM STRUCTURE. CONFORM TO SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION, INC. PUBLICATION 'SEISMIC RESTRAINT MANUAL: GUIDELINES FOR MECHANICAL SYSTEMS'. SPRINKLER LINE ATTACHMENTS SHALL CONFORM TO NFPA PAMPHLET 13.

FOUNDATION DESIGN CRITERIA (REFER TO GEOTECHNICAL REPORT BY PALMER GEOTECHNICAL CONSULTANTS, INC. DATED 11/26/2023)

ALLOWABLE SOIL BEARING PRESSURE: 2500 PSF

ACTIVE PRESSURE - RESTRAINED: 56 PCF +14% SEISMIC SURCHARGE (ASSUMED)
ACTIVE PRESSURE - UNRESTRAINED: 37 PCF +8% SEISMIC SURCHARGE (ASSUMED)
PASSIVE RESISTANCE: 195 PCF (INCLUDES F.O.S. ≥ 2.0)
COEFFICIENT OF FRICTION: 0.35 (INCLUDES F.O.S. ≥ 1.5)
\*1/3 INCREASE ALLOWED FOR SEISMIC OR WIND LOADING
STATIC DIFFERENTIAL SETTLEMENT: 1/2" MAX OVER 50 FEET PER GEO-TECHNICAL REPORT.

ALL FOOTINGS SHALL BEAR ON FIRM, UNDISTURBED EARTH OR 'STRUCTURAL BACKFILL'. NATIVE EARTH BEARING SHALL BE SURFACE COMPACTED. AREAS OVER-EXCAVATED SHALL BE BACKFILLED WITH LEAN CONCRETE (fc = 2000 PSI) OR 'STRUCTURAL BACKFILL'. AREAS DESIGNATED 'STRUCTURAL BACKFILL' SHALL BE FILLED WITH APPROVED WELL-GRADED BANKRUN MATERIAL. MAXIMUM SIZE OF ROCK 3".

FREE DRAINING BACKFILL MATERIAL FOR RETAINING & BASEMENT WALLS

A CLEAN, FREE DRAINING, WELL GRADED GRANULAR MATERIAL CONFORMING TO ASTM D2487 GW OR SW WHOSE MAXIMUM PARTICLE SIZE DOES NOT EXCEED 3/4" AND WHOSE FINES CONTENT (MATERIAL PASSING THE NO. 200 SIEVE) DOES NOT EXCEED 5%.

WITH A MAXIMUM DUST RATIO % PASSING U.S. NO. 200 SIEVE = 2/3 MAX.
% PASSING U.S. NO. 40 SIEVE

CONCRETE

CAST-IN-PLACE CONCRETE

CODES, SPECIFICATIONS, AND STANDARDS, CONCRETE WORK SHALL CONFORM TO THE FOLLOWING CODES, SPECIFICATIONS, AND STANDARDS, AND THE STANDARDS AND SPECIFICATIONS THEY REFERENCE. THE CONTRACTOR SHALL OBTAIN AND HAVE READILY AVAILABLE ON SITE THE LATEST VERSION OF THE 'ACI MANUAL OF CONCRETE PRACTICE':

- ACI:
1. ACI-117 'SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION, MATERIALS AND COMMENTARY'.
2. ACI-301 'STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE'.
3. ACI-302.1 'GUIDE TO CONCRETE FLOOR AND SLAB CONSTRUCTION'.
4. ACI-304 'GUIDE FOR MEASURING, MIXING, TRANSPORTING, AND PLACING CONCRETE'.
5. ACI-305.1 'SPECIFICATIONS FOR HOT WEATHER CONCRETING'.
6. ACI-305.1 'STANDARD SPECIFICATION FOR COLD WEATHER CONCRETING'.
7. ACI-308.1 'STANDARD SPECIFICATION FOR CURING CONCRETE'.
8. ACI-309 'GUIDE FOR CONSOLIDATION OF CONCRETE'.
9. ACI-311.4 'GUIDE FOR CONCRETE INSPECTION'.
10. ACI-315 'DETAILS AND DETAILING OF CONCRETE REINFORCEMENT'.
11. ACI-318 'BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE'.
12. ACI-508.2 'SPECIFICATION FOR SHOTCRETING'.
13. ACI 347 'GUIDE TO FORMWORK FOR CONCRETE'.
14. ACI 303.1 'STANDARD SPECIFICATION FOR CAST-IN PLACE/ARCHITECTURAL CONCRETE'.

ASTM:

- 1. ASTM C33 'STANDARD SPECIFICATION FOR CONCRETE AGGREGATES'.
2. ASTM C94 'STANDARD SPECIFICATION FOR READY-MIX CONCRETE'.
3. ASTM C150 'STANDARD SPECIFICATION FOR PORTLAND CEMENT'.
4. ASTM C260 'STANDARD SPECIFICATION FOR AIR-ENTRAINED ADMIXTURES FOR CONCRETE'.
5. ASTM C309 'STANDARD SPECIFICATION FOR LIQUID MEMBRANE-FORMING COMPOUNDS FOR CURING CONCRETE'.
6. ASTM C494 'STANDARD SPECIFICATION FOR CHEMICAL ADMIXTURES FOR CONCRETE'.
7. ASTM C595 'STANDARD SPECIFICATION FOR BLENDED HYDRAULIC CEMENTS'.
8. ASTM C618 'STANDARD SPECIFICATION FOR ... FLY-ASH...'.
9. ASTM C989 'STANDARD SPECIFICATION FOR SLAG...'.
10. ASTM C1017 'STANDARD SPECIFICATION FOR CHEMICAL ADMIXTURES FOR USE IN PRODUCING FLOWING CONCRETE'.
11. ASTM C-116 'STANDARD SPECIFICATION FOR FIBER-REINFORCED CONCRETE'.
12. ASTM C-1218 'STANDARD TEST METHOD FOR WATER-SOLUBLE CHLORIDE IN MORTAR AND CONCRETE'.
13. ASTM C-1315 'STANDARD SPECIFICATION FOR LIQUID MEMBRANE-FORMING COMPOUNDS HAVING SPECIAL PROPERTIES FOR CURING AND SEALING'.

MIX DESIGNS: THE CONTRACTOR SHALL DESIGN CONCRETE MIXES THAT MEET OR EXCEED THE REQUIREMENTS OF THE CONCRETE MIX TABLE. ALL CONCRETE MIXES SHALL BE NORMAL WEIGHT, UNLESS NOTED OTHERWISE. THE MIX DESIGNS SHALL FACILITATE ANTICIPATED PLACEMENT METHODS, WEATHER, REBAR CONGESTION, ARCHITECTURAL FINISHES, CONSTRUCTION SEQUENCING, STRUCTURAL DETAILS, AND ALL OTHER FACTORS REQUIRED TO PROVIDE A STRUCTURALLY SOUND, AESTHETICALLY ACCEPTABLE FINISHED PRODUCT.

AGGREGATE: COARSE AND FINE AGGREGATE SHALL CONFORM TO ASTM C33

CEMENT: CEMENT SHALL CONFORM TO ASTM C150, TYPE II PORTLAND CEMENT OR ASTM C595 - TYPE II PORTLAND LIMESTONE CEMENT, UNLESS NOTED OTHERWISE.

FLYASH: SHALL CONFORM TO ASTM C618 CLASS C OR F, MAXIMUM LOSS OF IGNITION SHALL BE 1.0%.

SLAG: GROUND GRANULATED BLAST-FURNACE (GGBF) SLAG SHALL CONFORM TO ASTM C989 GRADE 100 OR 120.

ALTERNATE MIX DESIGNS: VARIATIONS TO THE MIX DESIGN PROPORTIONS MAY BE ACCEPTED IF SUBSTANTIATED IN ACCORDANCE WITH ACI 318, CHAPTER 19. PROVIDE SUBMITTALS A MINIMUM OF TWO WEEKS PRIOR TO BID FOR DETERMINATION OF ACCEPTABILITY.

ADMIXTURES: ADMIXTURES SHALL BE BY MASTER BUILDERS, W. R. GRACE, OR PRE-APPROVED EQUAL. ALL MANUFACTURER'S RECOMMENDATIONS SHALL BE FOLLOWED.

WATER: SHALL BE CLEAN AND POTABLE.

MAXIMUM CHLORIDE CONTENT: THE MAXIMUM WATER SOLUBLE CHLORIDE CONTENT SHALL NOT EXCEED 0.15% BY WEIGHT OF CEMENTITIOUS MATERIAL UNLESS NOTED OTHERWISE.

CONCRETE EXPOSED TO WEATHER: PROVIDE 5.0% TOTAL AIR CONTENT FOR ALL CONCRETE EXPOSED TO WEATHER. TOTAL AIR CONTENT IS THE SUM OF ENTRAINED AIR PROVIDED BY ADMIXTURES AND NATURALLY OCCURRING ENTRAPPED AIR. AIR CONTENT SHALL BE TESTED PRIOR TO BEING PLACED IN THE PUMP HOPPER OR BUCKET; IT IS NOT REQUIRED TO BE TESTED AT THE DISCHARGE END OF THE PUMP HOSE. THE TOLERANCE ON ENTRAPPED AIR SHALL BE +2.0% AND -1.5% WITH THE AVERAGE OF ALL TESTS NOT LESS THAN THE SPECIFIED AMOUNT.

TOTAL CEMENTITIOUS MATERIAL: THE SUM OF ALL CEMENT PLUS FLYASH AND SLAG. AT THE CONTRACTORS OPTION FLYASH OR SLAG MAY BE SUBSTITUTED FOR CEMENT BUT SHALL NOT EXCEED 25% BY WEIGHT OF TOTAL CEMENTITIOUS MATERIAL. IN NO CASE SHALL THE AMOUNT OF FLYASH OR SLAG BE LESS THAN REQUIRED BY THE CONCRETE MIX DESIGN TABLE. FOOTING MIXES SHALL CONTAIN NOT LESS THAN 5 SACKS OF CEMENTITIOUS MATERIAL PER CUBIC YARD, ALL OTHER MIXES SHALL CONTAIN NOT LESS THAN 5-1/2 SACKS OF CEMENTITIOUS MATERIAL PER CUBIC YARD, UNLESS NOTED OTHERWISE.

Table with 6 columns: ITEM, DESIGN fc (PSI) (AT 28 DAYS U.N.O.), MAX. W/C RATIO, MIN. FLYASH OR SLAG (PCY), AGGREGATE GRADING ASTM AASHTO, NOTES. Rows include SLAB ON GRADE - EXPOSED TO WEATHER, SLABS ON GRADE - UNO, ARCHITECTURALLY EXPOSED SLABS ON GRADE, FOUNDATIONS - UNO, STEM WALLS AND OTHER WALLS EXPOSED TO EARTH OR WEATHER, STRUCTURAL SLAB & WALLS AT SURGE TANK, CONTROLLED DENSITY FILL (CDF), ALL OTHER CONCRETE.

CONCRETE MIX NOTES:

- 1. MAXIMUM WATER CONTENT 240 PCY.
2. THIS MIX SHALL CONTAIN 1 GALLON PER CY OF 'ECLIPSE FLOOR 200' SHRINKAGE REDUCING ADD MIXTURE BY GCP APPLIED TECHNOLOGIES, MASTER BUILDERS MASTERLIFE CRA 007 OR APPROVED ALTERNATE. FOR CONCRETE REQUIRING AN AIR ENTRAINMENT ADMIXTURE, 'ECLIPSE 4500' OR MASTERLIFE SRA 035 SHALL BE USED.
3. THIS MIX SHALL CONTAIN XYPEC ADD MIXTURE.
4. SAND - CEMENT CONCRETE GROUT.

CONCRETE PLACEMENT

PLACE CONCRETE FOLLOWING ALL APPLICABLE ACI RECOMMENDATIONS. CONCRETE SHALL BE PROPERLY CONSOLIDATED PER ACI 309 USING INTERIOR MECHANICAL VIBRATORS, DO NOT OVER-VIBRATE. CONCRETE SHALL BE POURED MONOLITHICALLY BETWEEN CONSTRUCTION OR EXPANSION JOINTS. IF CONCRETE IS PLACED BY THE PUMP METHOD, HORSES SHALL BE PROVIDED TO SUPPORT THE HOSE. THE HOSE SHALL NOT BE ALLOWED TO RIDE ON THE REINFORCING. WEATHER FORECASTS SHALL BE MONITORED AND ACI RECOMMENDATIONS FOR HOT AND COLD WEATHER CONCRETING SHALL BE FOLLOWED AS REQUIRED. CONCRETE SHALL NOT FREE FALL MORE THAN 5 FEET DURING PLACEMENT WITHOUT WRITTEN APPROVAL OF STRUCTURAL ENGINEER.

FLOATING & FINISHING OPERATIONS

WATER SHALL NOT BE ADDED TO THE CONCRETE SURFACE DURING FLOATING & FINISHING OPERATIONS. PRE-APPROVED EVAPORATION RETARDER SPECIFICALLY DESIGNED FOR FLOATING & FINISHING OPERATIONS ARE ACCEPTABLE.

FORMED SURFACES:

Table with 2 columns: ITEM, CLASS OF FINISH. Rows include FORMWORK CLASS OF SURFACE PER ACI 347 TABLE 3.1, ALL SURFACES EXPOSED TO PUBLIC VIEW, U.N.O., ALL SURFACES RECEIVING A COURSE TEXTURED COATING SUCH AS PLASTER OR STUCCO, UNLESS NOTED OTHERWISE, ALL OTHER SURFACES, UNLESS NOTED OTHERWISE.

FORMWORK STRIPPING:

COLUMNS & WALLS: COLUMNS AND WALLS NOT SUPPORTING FRAMING WEIGHT MAY BE STRIPPED AS SOON AS FORMS CAN BE REMOVED WITHOUT DAMAGING THE CONCRETE AND THE CONCRETE HAS REACHED A MINIMUM COMPRESSIVE STRENGTH OF 500 PSI.

COLD WEATHER PLACEMENT:

- 1. COLD WEATHER IS DEFINED BY ACI 306 AS "A PERIOD WHEN FOR MORE THAN 3 SUCCESSIVE DAYS THE MEAN DAILY TEMPERATURE DROPS BELOW 40° F."
2. NO CONCRETE SHALL BE PLACED ON FROZEN OR PARTIALLY FROZEN GROUND. THAWING THE GROUND WITH HEATERS IS PERMISSIBLE.
3. CONCRETE MIX TEMPERATURES SHALL BE AS SHOWN BELOW. HEATING OF WATER AND/OR AGGREGATES MAY BE REQUIRED TO ATTAIN THESE TEMPERATURES.
4. THE CONCRETE MAY REQUIRE PROTECTION FOR 4-7 DAYS AFTER POURING. IF TEMPERATURES REMAIN BELOW FREEZING, INSULATING BLANKET COVERAGE IS REQUIRED. IF TEMPERATURES ARE SLIGHTLY BELOW FREEZING (30° F MIN.) AT NIGHT AND ABOVE FREEZING DURING THE DAY, KRAFT PAPER WITH COMPLETE COVERAGE MAY BE USED IN LIEU OF INSULATED BLANKETS.
5. NO ADDITIVES CONTAINING CHLORIDES SHALL BE USED. USE "POZZUTEC 20+" BY MASTER BUILDERS OR "POLARSET" BY W. R. GRACE OR PRE-APPROVED EQUAL.

Table with 3 columns: CONDITION OF PLACEMENT AND CURING, WALLS & SLABS, FOOTINGS. Rows include MIN. TEMP. FRESH CONCRETE AS MIXED FOR WEATHER INDICATED, DEGREES F., MIN. TEMP. FRESH CONCRETE AS PLACED AND MAINTAINED, DEGREES F., MAX. ALLOWABLE GRADUAL DROP IN TEMP. THROUGHOUT FIRST 24 HOURS AFTER END OF PROTECTION, DEGREES F.

HOT OR WINDY WEATHER PLACEMENT

HOT WEATHER IS DEFINED BY ACI 305 AS "ANY COMBINATION OF HIGH AIR TEMPERATURE, LOW RELATIVE HUMIDITY, AND WIND VELOCITY, TENDING TO IMPAIR THE QUALITY OF FRESH HARDENED CONCRETE. ACI 305 FIGURE 2.1.5 SHALL BE USED BY THE CONTRACTOR TO ESTIMATE THE RATE OF EVAPORATION. WHEN THE ESTIMATED RATE OF EVAPORATION IS GREATER THAN 0.2 PSF/HOUR THE PLACEMENT SHALL BE CONSIDERED A HOT WEATHER PLACEMENT. PRECAUTIONS AGAINST PLASTIC SHRINKAGE CRACKING ARE NECESSARY. PRECAUTIONS TAKEN BY THE CONTRACTOR VARY DEPENDING UPON THE FACTORS ASSOCIATED WITH WATER EVAPORATION AND INCLUDE BUT ARE NOT LIMITED TO:

- 1. LIMITING CONCRETE TEMPERATURE TO 100°F AT TIME OF PLACEMENT.
2. APPLICATION OF AN EVAPORATION RETARDER.
3. USE OF FOG SPRAY.
4. REDUCTION OF POUR SIZE.
5. PLACING CONCRETE AT NIGHT.

CONTROL AND CONSTRUCTION JOINTS

CONSTRUCTION JOINTS SHALL MEET THE REQUIREMENTS OF ACI 301 SECTIONS 2.2.2.5 AND 5.3.2.6. SPECIAL BONDING METHODS PER SECTION 5.3.2.6 SHALL BE SATISFIED BY ITEM 6 BELOW UNLESS OTHERWISE DETAILED ON THE STRUCTURAL DRAWINGS. WHERE CONSTRUCTION JOINTS ARE NOT SHOWN ON PLAN OR ADDITIONAL CONSTRUCTION JOINTS ARE REQUIRED SUBMIT PROPOSED JOINTING FOR STRUCTURAL ENGINEERS APPROVAL. PROVIDE CONSTRUCTION JOINTS AS INDICATED BELOW UNLESS NOTED OTHERWISE ON THE PLANS:

- 1. SLABS ON GRADE: PROVIDE CONSTRUCTION AND/OR CONTROL JOINTS AT 16 FEET O.C. MAXIMUM FOR UNEXPOSED SLABS ON GRADE AND 12 FEET O.C. FOR EXPOSED SLABS ON GRADE. COORDINATE JOINTS WITH ARCHITECTURAL DRAWINGS.
2. BONDING AGENT: WHERE BONDING AGENT IS SPECIFICALLY CALLED OUT ON THE STRUCTURAL DRAWINGS USE 'WELD CRETE' BY LARSON PRODUCTS CORPORATION OR PRE-APPROVED EQUAL. FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS.
3. ATTACHMENT OF NEW CONCRETE TO EXISTING: WHERE SHOWN, ROUGHEN CONCRETE TO A MINIMUM AMPLITUDE OF 1/4" USING IMPACT HAMMER. REMOVE ALL LOOSE OR DAMAGED CONCRETE, THOROUGHLY FLUSH ALL SURFACES WITH POTABLE WATER, AIR BLAST WITH OIL FREE COMPRESSED AIR TO REMOVE ALL WATER.

EMBEDDED ITEMS

- 1. NO ALUMINUM ITEMS SHALL BE EMBEDDED IN ANY CONCRETE.
2. ALL EMBED PLATES SHALL BE SECURELY FASTENED IN PLACE.
3. ALL EMBEDDED STEEL ITEMS EXPOSED TO EARTH SHALL BE GALVANIZED.
4. ALL EMBEDDED STEEL ITEMS EXPOSED TO WEATHER SHALL BE PAINTED UNLESS NOTED AS GALVANIZED. SEE DRAWINGS AND SPECIFICATIONS FOR PAINT, PRIMER, AND GALVANIZING REQUIREMENTS.
5. EMBEDDED FLEXIBLE CONDUIT IS PERMITTED IN OTHER CAST IN PLACE CONCRETE SLABS WITH A THICKNESS GREATER OR EQUAL TO 5-1/2 INCHES. WHERE PERMITTED IT MAY BE PLACED ON TOP OF THE BOTTOM MAT OF REINFORCING. THE OUTSIDE DIAMETER OF THE CONDUIT SHALL NOT BE GREATER THAN 1-INCH. A MINIMUM OF 2-INCHES CLEAR SHALL BE PROVIDED BETWEEN CONDUIT AND PARALLEL REINFORCING. SPACE CONDUITS A MINIMUM OF 12-INCHES APART, WHERE THIS IS NOT POSSIBLE NOTIFY ENGINEER FOR ADDITIONAL REINFORCING REQUIREMENTS.

CONCRETE CURING AND SEALING

CURING PROCEDURES SHALL COMMENCE IMMEDIATELY AFTER FINISHING CONCRETE TO MAINTAIN CONCRETE IN A MOIST CONDITION. VERIFY CURING AND/OR SEALING PRODUCTS ARE COMPATIBLE WITH FLOOR COVERINGS SHOWN ON THE ARCHITECTURAL DRAWINGS. FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS. SLABS ARE DEFINED AS SLABS ON GRADE, CONCRETE ON METAL DECK, ELEVATED POST-TENSIONED OR MILD REINFORCED DECKS, AND TOPPING SLABS.

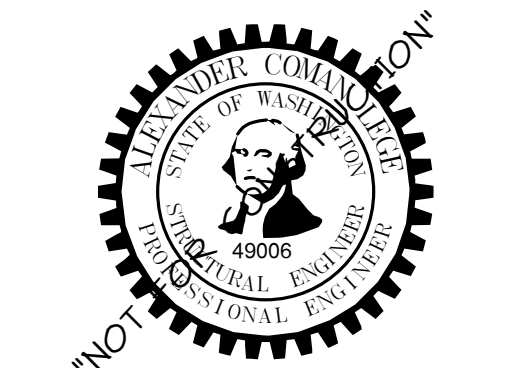
Table with 2 columns: ITEM, CONCRETE CURING NOTES. Rows include SLABS EXPOSED TO EARTH OR WEATHER OR VEHICLE OR FORKLIFT TRAFFIC INCLUDING LOADING DOCKS, ALL OTHER SLABS, ALL OTHER CONCRETE.

CONCRETE CURING NOTES:

- 1. WHEN THE ESTIMATED EVAPORATION RATE IS GREATER THAN 0.2 PSF/HOUR PROVIDE A SPRAY APPLIED EVAPORATION RETARDER IMMEDIATELY AFTER CONCRETE PLACEMENT. THE EVAPORATION RATE MAY BE CALCULATED PER ACI 305 FIGURE 2.1.5.
2. APPLY A LIQUID MEMBRANE FORMING CURING COMPOUND, CONFORMING TO ASTM C309 TYPE 1 CLASS B SPECIFICATIONS, PER MANUFACTURER'S RECOMMENDATIONS TO ALL FORMED SURFACES IMMEDIATELY AFTER FINAL FORM REMOVAL. NOT REQUIRED IF FORMWORK REMAINS IN PLACE FOR MORE THAN 7 DAYS.
3. PROVIDE PRE-APPROVED CONTINUOUS WET CURE METHOD FOR A MINIMUM OF 14 DAYS.
4. APPLY A LIQUID MEMBRANE FORMING CURING COMPOUND, CONFORMING TO ASTM C309 TYPE 1 CLASS B SPECIFICATIONS OR ASTM C1315 TYPE 1 CLASS A SPECIFICATIONS, PER MANUFACTURER'S RECOMMENDATIONS IMMEDIATELY AFTER FINAL FINISHING. CURING COMPOUND SHALL BE COMPATIBLE WITH ARCHITECTURAL FLOOR COVERINGS AND SEALERS.
5. PROVIDE 'ULTRACURE MAX' MOISTURE RETAINING COVER BY MCTECH GROUP, OR APPROVED EQUAL, FOR A MINIMUM OF 14 DAYS.
6. APPLY A SILANE SEALER WITH MINIMUM SOLIDS CONTENT OF 40% PER MANUFACTURER'S RECOMMENDATIONS.

GROUT

NON-SHRINK GROUT: MASTER BUILDERS 'MASTERFLOW 928' OR PRE-APPROVED EQUAL. GROUT SHALL CONFORM TO CRD-C621 AND ASTM C1107 WHEN TESTED AT A FLUID CONSISTENCY PER CRD-C611-85 FOR 30 MINUTES. GROUT MAY BE PLACED FROM A 25 SECOND FLOW TO A STIFF PACKING CONSISTENCY. FILL OR PACK ENTIRE SPACE UNDER PLATES OR SHAPES. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR PREPARATION, INSTALLATION, AND CURING. 28-DAY MINIMUM STRENGTH SHALL BE 7,500 PSI MINIMUM



S WHIDBEY PKS & REC AQUATIC REC CENTER
PID 812720 MAXWELTON RD LANGLEY, WA 98260



100% DESIGN DEVELOPMENT

ISSUE DATE: DECEMBER 01, 2023

Table with 3 columns: REVISION SCHEDULE, Rev #, Date, Description.

CONTENTS: GENERAL NOTES

SCALE: 1/2" = 1'-0"
DRAWN: DLM
CHECKED: CAJ
PROJECT NO: 2022201.000

SHEET: S1.0



## REINFORCING STEEL

REINFORCING STEEL SHALL CONFORM TO:

ASTM A615, GRADE 60 TYPICAL UNLESS NOTED OTHERWISE.

ASTM A706 GRADE 60 FOR ALL WELDED BARS.

DETAIL, FABRICATE AND PLACE PER ACI 315 AND ACI 318.

REINFORCING SPLICE AND DEVELOPMENT LENGTH SCHEDULE, Fy=60 KSI (UNLESS NOTED OTHERWISE)					
BAR SIZE	MINIMUM LAP SPLICE LENGTHS ("Ls")		MINIMUM DEVELOPMENT LENGTHS ("Ld")		MINIMUM EMBEDMENT LENGTH FOR STANDARD END HOOKS ("Ldh")
	TOP BARS (1)	OTHER BARS	TOP BARS (1)	OTHER BARS	
#3	2'-0"	1'-6"	1'-6"	1'-3"	0'-7"
#4	2'-8"	2'-0"	2'-0"	1'-7"	0'-9"
#5	3'-4"	2'-7"	2'-7"	2'-0"	1'-0"
#6	4'-0"	3'-1"	3'-1"	2'-4"	1'-2"
#7	5'-10"	4'-6"	4'-6"	3'-6"	1'-5"
#8	6'-8"	5'-2"	5'-2"	3'-11"	1'-7"

### SPLICE TABLE NOTES:

- "TOP BARS" ARE HORIZONTAL BARS WITH MORE THAN 12" DEPTH OF CONCRETE CAST BELOW THEM.

**MECHANICAL COUPLERS:** "LENTON" BY ERICO, "CADWELD" BY ERICO, "BAR-LOCK" BY DAYTON SUPERIOR L-SERIES, OR PRE-APPROVED EQUAL. COUPLERS SHALL BE TYPE 2 PER ACI 318 SECTION 18.2.7.1.

**WELDED HALF COUPLERS:** "LENTON" BY ERICO WELDABLE HALF COUPLERS TYPE C2/C3J OR APPROVED EQUAL.

**TERMINATORS:** "LENTON" BY ERICO THREADED TERMINATORS TYPE D6 OR APPROVED EQUAL.

**FORM SAVERS:** "LENTON" BY ERICO THREADED FORM SAVERS TYPE FS OR APPROVED EQUAL.

### REINFORCING STEEL COVER

PROVIDE CONCRETE COVER OVER REINFORCEMENT AS FOLLOWS, UNLESS NOTED OTHERWISE:

CONCRETE CAST AGAINST EARTH ----- 3"  
EXPOSED TO WEATHER OR EARTH ----- 2"  
TIES ON BEAMS AND COLUMNS ----- 1-1/2"  
WALLS AND SLABS NOT EXPOSED TO WEATHER---- 3/4"  
AUGERCAST PILES ----- 2-1/2"

**CONCRETE INSERTS:** THREADED DOWEL BAR SUBSTITUTIONS SHALL BE MANUFACTURED BY RICHMOND SCREW ANCHOR CO., INC., OR PRE-APPROVED EQUAL AND SHALL BE CAPABLE OF DEVELOPING THE FULL TENSILE CAPACITY OF THE BAR.

### POST-INSTALLED ANCHORS

**POST-INSTALLED ANCHORS:** SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE STRUCTURAL ENGINEER PRIOR TO INSTALLING POST-INSTALLED ANCHORS IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS. CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH REBAR. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS. INSTALLER SHALL BE QUALIFIED AND TRAINED BY THE MANUFACTURER. HOLES SHALL BE HAMMER DRILLED ONLY (ROTARY DRILLED ONLY AT UNREINFORCED MASONRY - NO HAMMER TOOLS).

SUBSTITUTION REQUESTS, FOR PRODUCTS OTHER THAN THOSE SPECIFIED BELOW, SHALL BE SUBMITTED FOR APPROVAL A MINIMUM OF 2 WEEKS PRIOR TO BID, ALONG WITH CALCULATIONS THAT SHALL BE STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF THE PROJECT DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING EQUIVALENT PERFORMANCE VALUES (MINIMUM) OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARD(S) AS REQUIRED BY THE BUILDING CODE.

### CONCRETE ANCHORS:

- ADHESIVE ANCHORS: HILTI HIT-HY 200 V3 (ICC-ESR-4868), HILTI HIT-RE 500 V3 (ICC-ESR-3814), DEWALT PURE 110+ (ICC-ESR-3298) OR SIMPSON SET-3C (ICC-ESR-4057) OR PRE-APPROVED EQUAL.
  - \*CONCRETE SHALL BE A MINIMUM OF 21 DAYS OLD AT TIME OF INSTALLATION.
  - \*CONCRETE SHALL BE IN THE TEMPERATURE RANGE AS REQUIRED BY THE CONCRETE MANUFACTURER.
  - \*HOLE SHALL BY HAMMER-DRILLED ONLY.
  - \*DO NOT INSTALL IN WATER-FILLED HOLES.
  - \*INSTALLER OF HORIZONTAL OR UPWARDLY INCLINED (ANY POSITION EXCEPT DIRECTLY DOWNWARD) ANCHORS SHALL ALSO BE CERTIFIED BY THE ACICRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM.
- EXPANSION ANCHORS: KWIKBOLT T2Z (ICC ESR-4266) BY HILTI, INC., OR PRE-APPROVED EQUAL.
- SCREW ANCHORS: KWIK HUS-EZ (ICC ESR-3027) BY HILTI, INC., OR PRE-APPROVED EQUAL.

## STRUCTURAL STEEL

### DETAILING, FABRICATION AND ERECTION

ALL WORKMANSHIP SHALL CONFORM TO THE AISC MANUAL OF STEEL CONSTRUCTION, 15TH EDITION, THE AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS JULY 7, 2016, THE AISC CODE OF STANDARD PRACTICE, JUNE 15, 2016 AND THE AISC SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS, JULY 12, 2016.

STEEL MEMBERS ARE EQUALLY SPACED BETWEEN COLUMNS AND/OR DIMENSION POINTS UNLESS NOTED OTHERWISE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ERECTION AIDES AND JOINT PREPARATIONS THAT INCLUDE BUT ARE NOT LIMITED TO, ERECTION ANGLES, LIFT HOLES, AND OTHER AIDES, WELDING PROCEDURES, REQUIRED ROOT OPENINGS, ROOT FACE DIMENSIONS, GROOVE ANGLES, BACKING BARS, WELD EXTENSION TABS, COPEs, SURFACE ROUGHNESS VALUES AND TAPERS OF UNEQUAL PARTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLIANCE WITH ALL CURRENT OSHA REQUIREMENTS.

HOLES, COPEs OR OTHER CUTS OR MODIFICATIONS OF THE STRUCTURAL STEEL MEMBERS SHALL NOT BE MADE IN THE FIELD WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.

### STEEL FABRICATORS

NON-AISC CERTIFIED STEEL FABRICATORS SHALL HAVE FIVE YEARS MINIMUM EXPERIENCE ON SIMILAR PROJECTS OF EQUAL OR LARGER COMPLEXITY AND SCOPE. QUALIFICATIONS SHALL BE SUBMITTED TWO WEEKS PRIOR TO SHOP DRAWING PRODUCTION.

### STEEL ERECTORS

NON-AISC CERTIFIED STEEL ERECTORS SHALL HAVE FIVE YEARS MINIMUM EXPERIENCE ON SIMILAR PROJECTS OF EQUAL OR LARGER COMPLEXITY AND SCOPE. QUALIFICATIONS SHALL BE SUBMITTED TWO WEEKS PRIOR TO SHOP DRAWING PRODUCTION.

### STEEL DETAILERS

ALL STEEL DETAILING SHALL BE PERFORMED BY A DETAILER WITH FIVE YEARS MINIMUM EXPERIENCE ON SIMILAR PROJECTS OF EQUAL OR LARGER COMPLEXITY AND SCOPE. QUALIFICATIONS SHALL BE SUBMITTED TWO WEEKS PRIOR TO SHOP DRAWING PRODUCTION.

### MATERIAL PROPERTIES

**WIDE FLANGE SECTIONS:** ASTM A992 (Fy = 50 KSI)

**OTHER SHAPES AND PLATES:** ASTM A36 (Fy = 36 KSI) TYP. U.N.O.; ASTM A572 (Fy = 50 KSI) WHERE INDICATED

**HOLLOW STRUCTURAL SECTIONS:** RECTANGULAR & SQUARE - ASTM A500, GRADE C (Fy = 50 KSI) ROUND - ASTM A500, GRADE C (Fy = 46 KSI)

**STRUCTURAL STEEL PIPES:** ASTM A53, GRADE B, TYPE E OR S (Fy = 35 KSI)

**MACHINE BOLTS (M.B.):** ASTM A307, GRADE A

**HIGH-STRENGTH BOLTS:** A325-ASTM F1852, A490-ASTM F2280

**ANCHOR BOLTS (A.B.):** ASTM F1554, GRADE 36, UNLESS OTHERWISE NOTED, ASTM F1554, GRADE 55-S1 OR 105 WHERE INDICATED.

WIDE FLANGE STRUCTURAL MEMBERS WHICH ARE ASTM A6 GROUP 3 SHAPES WITH FLANGE THICKNESS 1-1/2" THICK AND THICKER AS GROUP 4 AND 5 SHAPES AND PLATE THAT IS 1-1/2" THICK OR THICKER SHALL HAVE A CHAMPY V-NOTCH (CVN) TOUGHNESS OF 20 FT-LBS @ 70 DEG F.

## WELDING

**STRUCTURAL STEEL:** WELD IN ACCORDANCE WITH "STRUCTURAL WELDING CODE" AWS D1.1.

**LATERAL FORCE-RESISTING SYSTEM:** WELD IN ACCORDANCE WITH "STRUCTURAL WELDING CODE SEISMIC SUPPLEMENT" AWS D1.8.

**REINFORCING STEEL:** WELD IN ACCORDANCE WITH "REINFORCING STEEL WELDING CODE" AWS D1.4. WELD ONLY WITH SPECIFIC APPROVAL OF THE STRUCTURAL ENGINEER. IN NO CASE SHALL A WELD BE MADE WITHIN 6 BAR DIAMETERS OF A "COLD BEND".

**CERTIFICATION:** ALL WELDING SHALL BE PERFORMED BY WABO CERTIFIED WELDERS. WELDERS SHALL BE PREQUALIFIED FOR EACH POSITION AND WELD TYPE WHICH THE WELDER WILL BE PERFORMING.

WELD TABS (ALSO KNOWN AS WELD "EXTENSION" TABS OR "RUN OFF" TABS) SHALL BE USED. AFTER THE WELD HAS BEEN COMPLETED THE WELD TABS SHALL BE REMOVED AND THE WELD END GROUND TO A SMOOTH CONTOUR. WELD "DAMS" OR "END DAMS" SHALL NOT BE USED.

THE PROCESS CONSUMABLES FOR ALL WELD FILLER METAL INCLUDING TACK WELDS, ROOT PASS AND SUBSEQUENT PASSES DEPOSITED IN A JOINT SHALL BE COMPATIBLE.

ALL WELD FILLER METAL AND WELD PROCESS SHALL PROVIDE THE TENSILE STRENGTH AND CHAMPY V-NOTCH RATINGS AS FOLLOWS:

### GRAVITY FRAME

WELD TYPE	FILLER METAL TENSILE STRENGTH	CHAMPY V-NOTCH (CVN) RATING
FILLET	70 KSI	----
PARTIAL PENETRATION	70 KSI	----
COMPLETE PENETRATION	70 KSI	20 FT-LBS @ 40 DEG F

### LATERAL FORCE-RESISTING SYSTEM

WELD TYPE	FILLER METAL TENSILE STRENGTH	CHAMPY V-NOTCH (CVN) RATING
FILLET	70 KSI	20 FT-LBS @ 0 DEG F
PARTIAL PENETRATION	70 KSI	20 FT-LBS @ 0 DEG F
COMPLETE PENETRATION	70 KSI	20 FT-LBS @ 0 DEG F
FILLET (1)	70 KSI	40 FT-LBS @ 70 DEG F
PARTIAL PENETRATION (1)	70 KSI	40 FT-LBS @ 70 DEG F
COMPLETE PENETRATION (1)	70 KSI	40 FT-LBS @ 70 DEG F

(1) DCW LOCATIONS ARE INDICATED IN THE DETAILS.

### WELDED CONNECTIONS INSPECTION:

- ALL WELDING SHALL BE CHECKED BY VISUAL MEANS AND BY OTHER METHODS DEEMED NECESSARY BY THE WELDING INSPECTOR.
- ALL FULL PENETRATION WELDS TO MEMBERS WHICH FORM A PORTION OF THE LATERAL FORCE-RESISTING SYSTEM SHALL BE CHECKED 100 PERCENT BY ULTRASONIC TESTING.
- THE CONTRACTOR SHALL SUBMIT A WRITTEN WELDING PROCEDURE SPECIFICATION FOR SHOP AND FIELD WELDING OF ALL LATERAL FORCE-RESISTING SYSTEM CONNECTIONS FOR APPROVAL TO THE STRUCTURAL ENGINEER OF RECORD PRIOR TO FABRICATION.

THE STANDARDS OF ACCEPTANCE FOR WELDS TESTED BY ULTRASONIC METHODS SHALL CONFORM TO AWS D1.1.

ALL WELDS FOUND TO BE DEFECTIVE SHALL BE REPAIRED AND REINSPECTED BY THE SAME METHODS ORIGINALLY USED, AND THIS REPAIR AND REINSPECTION SHALL BE PAID FOR BY THE CONTRACTOR

## GENERAL REQUIREMENTS

**HIGH-STRENGTH BOLTS:** ALL A325 HIGH-STRENGTH BOLTS (HSB) SHALL BE ASTM F3125, GRADE F1852, UNLESS OTHERWISE DESIGNATED AS A490. ALL HSB DESIGNATED AS A490 SHALL BE ASTM F3125, GRADE F2280. ALL HSB SHALL BE BY "LEJEUUNE BOLT COMPANY" OR PRE-APPROVED EQUAL AND SHALL BE INSTALLED PER SECTION 8.2 OF THE "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS", AUGUST 2014 BY THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS (RSCC SPECIFICATION). ALL BOLT HOLES SHALL BE STANDARD ROUND HOLES UNLESS NOTED OTHERWISE. THE FAYING SURFACES OF ALL PLIES WITHIN THE GRIP OF SLIP-CRITICAL BOLTS (A325SC OR A490SC) SHALL MEET THE REQUIREMENTS FOR A CLASS A SURFACE PER SECTION 3.2 OF THE RSCC SPECIFICATION.

**BOLTED CONNECTIONS INSPECTION:** CONNECTIONS MADE WITH BEARING TYPE BOLTS SHALL BE INSPECTED PER SECTION 9.1 AND CONNECTIONS MADE WITH SLIP-CRITICAL TYPE BOLTS (A325SC OR A490SC) SHALL BE INSPECTED PER SECTION 9.3 OF RSCC SPECIFICATION.

**ADHESIVE ANCHOR RODS:** FULLY THREADED ASTM F1554, GRADE 36 UNLESS NOTED OTHERWISE.

**HEADED STUDS:** SHALL BE "H4L HEADED CONCRETE ANCHORS" FOR STUDS 5/8" DIAMETER AND SMALLER AND "S3L SHEAR CONNECTORS" FOR STUDS 3/4" DIAMETER AND LARGER AS MANUFACTURED BY NELSON STUD WELDING, INC. OR PRE-APPROVED EQUAL AND SHALL CONFORM TO AWS D1.1. ALL HEADED STUDS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS USING A NELSON WELD GUN, UNLESS NOTED OTHERWISE ON DETAILS. ALL WELDS SHALL BE MADE AND INSPECTED IN ACCORDANCE WITH AWS D1.1.

**DEFORMED BAR ANCHORS:** SHALL BE "DZL DEFORMED BAR ANCHORS" AS MANUFACTURED BY NELSON STUD WELDING, INC. OR PRE-APPROVED EQUAL AND SHALL CONFORM TO AWS D1.1. ALL DEFORMED BAR ANCHORS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS USING A NELSON WELD GUN, UNLESS NOTED OTHERWISE ON DETAILS. ALL WELDS SHALL BE MADE AND INSPECTED IN ACCORDANCE WITH AWS D1.1.

**FINISH:** STRUCTURAL STEEL SHALL BE UNPAINTED, UNLESS NOTED OTHERWISE, AND SHALL BE CLEAN OF LOOSE RUST, LOOSE MILL SCALE, OIL, GREASE AND OTHER FOREIGN SUBSTANCES AND SHALL MEET THE REQUIREMENTS OF SSPC-SP1. WHERE STRUCTURAL STEEL IS NOTED TO BE PAINTED, ALL AREAS COMPRISING THE FAYING SURFACES OF BOLTED CONNECTIONS MADE WITH SLIP-CRITICAL TYPE BOLTS (A325SC OR A490SC) SHALL COMPLY WITH THE REQUIREMENTS OF THE RSCC SPECIFICATION. WHERE STRUCTURAL STEEL IS NOTED TO BE GALVANIZED, IT SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A123, A384, AND A385. ALL SURFACES WITHIN TWO INCHES OF ANY FIELD WELD LOCATION SHALL BE FREE OF MATERIALS THAT WOULD PREVENT PROPER WELDING OR PRODUCE OBJECTIONABLE FUMES. FIELD TOUCH-UP OF PRIMED, PAINTED, AND GALVANIZED SURFACES SHALL BE PERFORMED TO REPAIR COATING ABRASIONS, AS WELL AS TO PROTECT ALL AREAS AT CONNECTIONS.

**ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS):** ALL MEMBERS DESIGNATED AS AESS SHALL CONFORM TO SECTION 10, ARCHITECTURALLY EXPOSED STRUCTURAL STEEL, OF THE AISC CODE OF STANDARD PRACTICE.

AESS CATEGORY	DESCRIPTION
<b>AESS 1</b>	BASIC ELEMENTS
<b>AESS 2</b>	FEATURE ELEMENTS NOT IN CLOSE VIEW (ELEMENTS VIEWED AT A DISTANCE > 20 FEET)
<b>AESS 3</b>	FEATURE ELEMENTS IN CLOSE VIEW (ELEMENTS VIEWED AT A DISTANCE < 20 FEET)
<b>AESS 4</b>	SHOWCASE ELEMENTS (ELEMENTS WITH SPECIAL SURFACE & EDGE TREATMENT BEYOND FABRICATION)
<b>AESS C</b>	CUSTOM ELEMENTS (ELEMENTS WITH CHARACTERISTICS DESCRIBED IN THE CONTRACT DOCUMENTS)

**OPEN-WEB STEEL JOISTS:** SHALL BE MANUFACTURED BY CANAM STEEL CORPORATION, VULCRAFT A DIVISION OF NUCOR CORPORATION OR PRE-APPROVED EQUAL, AND SHALL CONFORM TO THE STEEL JOIST INSTITUTE (SJI) AND AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) STANDARDS AND CRITERIA LISTED IN THE CONTRACT DOCUMENTS AND SHALL BE DESIGNED AND DETAILED TO MEET ALL CURRENT OSHA STANDARDS INDICATED ON THE FRAMING PLANS. JOIST MANUFACTURER SHALL VERIFY AND INCLUDE FIRE RATING STRESS REDUCTIONS AND SIZE LIMITATIONS IN ORDER TO CONFORM TO THE ASSEMBLY REQUIREMENTS AS SHOWN ON THE ARCHITECTURAL DRAWINGS. FOR A WIND UPLIFT MAP SEE SHEET S1.5. AT A MINIMUM PROVIDE BRACING TO WITHSTAND A NET ASD WIND UPLIFT OF 4 PSF AND/OR 18 PSF WITHIN 10' OF ALL RIDGES, EAVES, ENDWALLS AND ROOF STEPS. FOR OTHER SPECIAL REQUIREMENTS, SEE STRUCTURAL DRAWINGS. ALL LOADS INDICATED ON THE FRAMING PLANS THAT ARE NOT DIMENSIONED ARE TO BE DESIGNATED AS ADLOADS BY THE JOIST MANUFACTURER. JOISTS SHALL BE DESIGNED AND DETAILED TO MEET ALL CURRENT OSHA STANDARDS. THE GENERAL CONTRACTOR SHALL COORDINATE ALL OSHA REQUIREMENTS BETWEEN THE STEEL DETAILER AND JOIST MANUFACTURER. SEE ADDITIONAL INFORMATION IN THE STRUCTURAL STEEL "DETAILING, FABRICATION, AND ERECTION" SECTION.

THE ENGINEER FOR THE OPEN-WEB STEEL JOIST DESIGN SHALL HAVE A MINIMUM OF (5) YEARS EXPERIENCE IN THE DESIGN OF OPEN-WEB STEEL JOISTS OF SIMILAR SIZE PROJECTS AND BE A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF THE PROJECT. THE ENGINEER FOR THE JOIST DESIGN SHALL SUBMIT A STAMPED LETTER OF COMPLIANCE INDICATING YEARS OF EXPERIENCE. THE LETTER SHALL ALSO STATE THAT THEY HAVE REVIEWED THE JOIST PLACEMENT DRAWINGS AND BILLS OF MATERIAL FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS, ALONG WITH VERIFICATION THAT THE JOISTS CONFORM TO THE DESIGN CRITERIA AND ADDITIONAL LOADING REQUIREMENTS LISTED IN THE CONTRACT DOCUMENTS (INCLUDING BUT NOT LIMITED TO SNOW DRIFT, WIND UPLIFT, JOIST AXIAL LOADS AND MECHANICAL UNIT LOADING).

**METAL ROOF DECK:** SHALL CONTAIN THE MINIMUM PROPERTIES SHOWN ON THE STRUCTURAL DRAWINGS AND SHALL BE MANUFACTURED BY VERCO MANUFACTURING CO. AS STEEL DECK, EPIC METALS, OR PRE-APPROVED EQUAL. THE ROOF DECK SHALL BE FORMED FROM STEEL SHEETS CONFORMING TO ASTM A611 OR A663, AND SHALL BE GALVANIZED PER ASTM A924. THE ROOF DECK SHALL BE PLACED ON THE SUPPORTING FRAMEWORK WITH A MINIMUM END LAP OF TWO INCHES. SUBMIT SHOP DRAWINGS SHOWING LAYOUT AND FASTENING PATTERN. ALL ACCESSORIES SHALL BE PROVIDED TO COMPLETE THE ERECTION OF THE STEEL DECK.

**BUCKLING-RESTRAINED BRACE:** PROVIDE ALL PARTS, MATERIALS AND LABOR REQUIRED FOR THE DESIGN, DELIVERY AND TESTING OF BUCKLING-RESTRAINED BRACES, WHICH ARE DESIGNED BY THE MANUFACTURER TO MEET STIFFNESS, YIELD STRENGTH AND ELONGATION REQUIREMENTS AS INDICATED ON THE DRAWINGS AND SPECIFICATION. DESIGN OF BRACES SHALL BE BASED ON CONNECTION TYPES AND PROPORTIONS INDICATED ON THE DRAWINGS.

## COLD-FORMED STEEL FRAMING CONSTRUCTION:

THE DESIGN, INSTALLATION AND CONSTRUCTION OF COLD-FORMED CARBON OR LOW-ALLOY STEEL, STRUCTURAL AND NON-STRUCTURAL STEEL FRAMING, SHALL BE IN ACCORDANCE WITH IBC SECTION 2211 AND AMERICAN IRON AND STEEL INSTITUTE (AISI) STANDARD S100-16 AND S240-15 AND SHALL BE MANUFACTURED BY A MEMBER OF THE STEEL STUD MANUFACTURER'S ASSOCIATION (SSMA), CERTIFIED STEEL STUD ASSOCIATION (CSSA), STEEL FRAMING INDUSTRY ASSOCIATION (SFIA), OR PRE-APPROVED EQUAL, IN ACCORDANCE WITH A CURRENT ICC EVALUATION SERVICE REPORT, AISI S202-15 AND S240-15. ALL 54 MIL AND HEAVIER GALVANIZED MEMBERS SHALL BE FORMED FROM STEEL THAT MEETS THE REQUIREMENTS OF ASTM A924, GRADE 50, CLASS 1, Fy= 50 KSI. ALL 43 MIL AND LIGHTER GALVANIZED MEMBERS SHALL BE FORMED FROM STEEL THAT MEETS THE REQUIREMENTS OF ASTM A653, QUALITY S0, GRADE 33, Fy=33 KSI. BRIDGING PER MANUFACTURER'S REQUIREMENTS AND AS SHOWN IN THE STRUCTURAL DRAWINGS SHALL BE IN PLACE PRIOR TO PLACING OF ANY CONSTRUCTION LOADS. ALL RUNS SHALL BE RIGIDLY ANCHORED TO END WALLS.

**EXTERIOR WALL AND BEARING WALL COLD-FORMED STEEL FRAMING:** COLD-FORMED STEEL FRAMING MEMBERS SHALL MEET THE TYPE, SIZE AND THICKNESS AS INDICATED ON THE STRUCTURAL PLANS AND SPECIFICATIONS.

**INTERIOR NON-BEARING WALL, CEILING, SOFFIT, AND OTHER MISC. COLD-FORMED STEEL FRAMING:** COLD-FORMED STEEL FRAMING MEMBERS SHALL MEET THE TYPE, SIZE, AND THICKNESS AS INDICATED IN THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS, AND SHALL CONFORM TO THE MINIMUM PERSCRIPITIVE REQUIREMENTS OF THE GYPSUM CONSTRUCTION HANDBOOK BY CGC, INC. FRAMING CONDITIONS THAT EXCEED THE WEIGHT, SPAN OR HEIGHT LIMITATIONS SHALL BE CONSTRUCTED USING APPLICABLE DETAILS ON THE STRUCTURAL DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, DETAILING, FABRICATION AND ERECTION OF ALL COLD-FORMED FRAMING NOT SPECIFICALLY DETAILED IN THE GYPSUM CONSTRUCTION HANDBOOK OR ON THE STRUCTURAL DRAWINGS. THE DESIGN AND DETAILING OF THE COLD-FORMED STEEL FRAMING AND CONNECTION TO THE STRUCTURE SHALL BE PREPARED UNDER THE DIRECTION OF AND SHALL BE STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF THE PROJECT AND SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL PRIOR TO CONSTRUCTION.

**COLD-FORMED STEEL FRAMING SUBSTITUTION:** AT THE CONTRACTOR'S OPTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, DETAILING, FABRICATION AND ERECTION OF THE INTERIOR NON-BEARING COLD-FORMED STEEL FRAMING NOT OCCURRING AT BRICK VENEER AND THE CONNECTION OF THE COLD-FORMED STEEL FRAMING TO THE STRUCTURE. THE DESIGN AND DETAILING OF THE COLD-FORMED STEEL FRAMING AND CONNECTION TO THE STRUCTURE SHALL BE PREPARED UNDER THE DIRECTION OF AND STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF THE PROJECT AND SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL PRIOR TO CONSTRUCTION.

**POWDER ACTUATED FASTENERS:** SHALL BE X-U UNIVERSAL KNURLED SHANK FASTENER BY HILTI OR PRE-APPROVED EQUAL. INSTALL PER ALL MANUFACTURER'S PUBLISHED RECOMMENDATIONS. COLD-FORMED STEEL TO STRUCTURAL STEEL: UNLESS NOTED OTHERWISE, PROVIDE 0.157" SHANK DIAMETER X-U LOW-VELOCITY FASTENER. FASTENER TIP SHALL PENETRATE STRUCTURAL STEEL. COLD-FORMED STEEL TO CONCRETE: UNLESS NOTED OTHERWISE, PROVIDE 0.157" SHANK DIAMETER X-U LOW-VELOCITY FASTENER - EMBED 1-1/2" MINIMUM INTO CONCRETE, UNLESS NOTED OTHERWISE.

**SLIP CONNECTIONS:** THE STEEL NETWORK "VERTICLI" OR PRE-APPROVED EQUAL. MATCH CLIP WITH STUD SIZE AND THICKNESS. ATTACH PER MANUFACTURER'S REQUIREMENTS.

## CARPENTRY:

**CROSS-LAMINATED TIMBER (CLT):** SHALL BE MANUFACTURED BY STRUCTURLAM, SMARTLAM, KALESNIKOFF OR PRE-APPROVED EQUAL AND CONFORM TO ANSII/APA PRO 320-18 STANDARD FOR PERFORMANCE-RATED CROSS-LAMINATED TIMBER AND IN ACCORDANCE WITH APPROVED SHOP AND INSTALLATION DRAWINGS. SHOP DRAWINGS SHALL SHOW ALL APPLICABLE DETAILS, PANELS, MEMBERS, AND CONNECTIONS. ELECTRICAL AND MECHANICAL SERVICES REQUIRING CUTTING AND DRILLING OF CLT PANELS SHALL BE SHOWN ON THE SHOP DRAWINGS AND APPROVED PRIOR TO FABRICATION.

PANELS SHALL BE ARCHITECTURAL APPEARANCE GRADE AT EXPOSED SURFACES, INDUSTRIAL APPEARANCE GRADE AT TOP SIDE OF PANELS. MINIMUM SPECIFIC GRAVITY OF PANELS SHALL BE G = 0.42.

PANELS INDICATED IN STRUCTURAL DRAWINGS AS "3-PLY" SHALL HAVE MAXIMUM WEIGHT OF 10.0 PSF WITH GRADE AS FOLLOWS: SMARTLAM 3-ALT (4-1/8" THICKNESS) GRADE V2M5 STRUCTURLAM 3-PLY (4-1/8" THICKNESS) GRADE V2.1M1.1 KALESNIKOFF 3-PLY (4-1/8" THICKNESS) GRADE V2M6

PANELS INDICATED IN STRUCTURAL DRAWINGS AS "5-PLY" SHALL HAVE MAXIMUM WEIGHT OF 16.5 PSF WITH GRADE AS FOLLOWS: SMARTLAM 5-ALT (6-7/8" THICKNESS) GRADE V2M5 STRUCTURLAM 175V (6-7/8" THICKNESS) GRADE V2.1M1.1 KALESNIKOFF 5-PLY (6-7/8" THICKNESS) GRADE V2M6

MEMBERS HAVE BEEN DESIGNED TO SERVICEABILITY AND OTHER PERFORMANCE BASED REQUIREMENTS, WHICH MAY EXCEED MINIMUM DESIGN LOADS AND CODE REQUIREMENTS. SUBSTITUTIONS MUST MEET OR EXCEED MOMENT, SHEAR, AND STIFFNESS OF THOSE MEMBERS SPECIFIED AT THE SAME THICKNESS.

**MASS TIMBER SCREWS (MT SCREWS):** SCREWS SHALL BE MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, SAN LEANDRO, CA, MTC SOLUTIONS, SURREY, BC, OR PRE-APPROVED EQUAL. SCREWS SHALL BE PARTIALLY THREADED WITH CURRENT UNITED STATES CODE REPORT.

**STEEL TO WOOD SCREWS:**  
\*SIMPSON STRONG-DRIVE SDS HEAVY-DUTY CONNECTOR SCREW - 0.250" DIAMETER  
\*MTC ASSY KOMBI SCREWS - 0.313 DIAMETER

**WOOD/CLT TO WOOD SCREWS:**  
\*SIMPSON STRONG-DRIVE SDWS TIMBER SCREW - 0.220" DIAMETER  
\*MTC ASSY EPOFAST 4.0 SCREWS - 0.250" DIAMETER.

**GLUE-LAMINATED MEMBERS:** CONFORM TO ANSII/AITC A190.1. MEMBERS SHALL BE COMBINATION 24F-V4 DOUGLAS FIR (DF) FOR SIMPLE SPANS; AND 24F-V8 DF FOR CANTILEVERED AND/OR CONTINUOUS SPANS (Fb=2400 PSI, Fv=265 PSI, E=1.8X10<sup>6</sup> PSI).

MEMBERS INDICATED IN STRUCTURAL DRAWINGS AS "AYC" SHALL BE ALASKAN YELLOW CEDAR COMBINATION 20F-V13 (Fb=2000 PSI, Fv=265 PSI, E=1.5X10<sup>6</sup> PSI) AND AYC COMBINATION 2 FOR COLUMNS.

MEMBERS INDICATED IN STRUCTURAL DRAWINGS AS "PPT" SHALL BE PRESERVATIVE PRESSURE TREATED COMBINATION 24F-V5 SOUTHERN PINE (SP) (Fb=2400 PSI, Fv=300 PSI, E=1.7X10<sup>6</sup> PSI) AND SP COMBINATION 2 FOR COLUMNS.

ARCHITECTURAL APPEARANCE GRADE WHERE EXPOSED TO VIEW; INDUSTRIAL APPEARANCE WHERE NOT EXPOSED TO VIEW. ALL MEMBERS TO HAVE EXTERIOR GLUE AND HAVE AN APPROVED GRADE STAMP. CAMBER AS SHOWN ON STRUCTURAL DRAWINGS.

## MISCELLANEOUS:

**PRE-APPROVED SUBSTITUTIONS:** SUBSTITUTIONS MAY BE ALLOWED ONLY IF THEY MEET THE REQUIREMENTS OF THESE GENERAL NOTES AND THE SPECIFICATIONS, AND IF COMPLETE WRITTEN ENGINEERING DATA FOR EACH CONDITION REQUIRED FOR THIS PROJECT IS PROVIDED TO THE STRUCTURAL ENGINEER TWO WEEKS PRIOR TO BID DATE AND APPROVED IN WRITTEN ADDENDA BY THE ARCHITECT. DATA IS TO INDICATE CODE BASIS BY YEAR, AUTHORITY FOR STRESSES AND ADDRESSES, FAYING AND AMOUNT OF EXPECTED DEFLECTION FOR FLEXURAL MEMBERS UNDER (1) TOTAL LOAD AND (2) LIVE LOAD ONLY. ALL INCREASED COSTS IN MECHANICAL, SPRINKLER, ELECTRICAL OR GENERAL INSTALLATION AND ANY ARCHITECTURAL OR STRUCTURAL REDESIGN RESULTING FROM SUBSTITUTION SHALL BE BORNE BY THE GENERAL CONTRACTOR.

## SHOP DRAWINGS/SUBMITTALS

THE FOLLOWING SHOP DRAWINGS/SUBMITTALS SHALL BE PROVIDED FOR REVIEW AND APPROVAL BY THE STRUCTURAL ENGINEER PRIOR TO FABRICATION OR DELIVERY.

	STRUCTURAL ENGR.	BLDG. DEPT.
1. CONCRETE MIX DESIGNS	X	X
2. REINFORCING STEEL SHOP DRAWINGS	X	
3. STRUCTURAL STEEL	X	
4. OPEN-WEB STEEL JOISTS	X	X
5. METAL DECK	X	
6. COLD-FORMED STEEL FRAMING	X	
7. MISCELLANEOUS STEEL	X	
8. GLU-LAMINATED MEMBERS	X	
9. CROSS-LAMINATED TIMBER	X	
10. CONTRACTOR'S STATEMENT OF RESPONSIBILITY	X	X

## DEFERRED SUBMITTALS

THE FOLLOWING ARE NOT INCLUDED WITH THE BUILDING PERMIT DRAWINGS AND SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT AND THE STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL AS A DEFERRED SUBMITTAL. SUBMITTALS SHALL BE STAMPED BY A ENGINEER LICENSED IN THE STATE OF THE PROJECT AS NOTED.

	ENGINEER STAMP REQUIRED
1. OPEN-WEB STEEL JOISTS	PE
2. CURTAIN WALL	PE
3. FALL RESTRAINTS	PE
4. STORAGE RACKS	SE (OVER 8'-0") PE (OVER 6'-0" AND LESS THAN 8'-0")

**SPECIAL INSPECTION:** SPECIAL INSPECTION SHALL BE PROVIDED BY AN INDEPENDENT TESTING LABORATORY PER THE REQUIREMENTS OF IBC CHAPTER 17 AND THE LOCAL BUILDING OFFICIAL WITH APPLICABLE JURISDICTION AND THE CONTRACT DOCUMENTS. THE SPECIAL INSPECTOR SHALL SUBMIT INSPECTION REPORTS AND A FINAL SIGNED REPORT TO THE BUILDING OFFICIAL FOR THE ITEMS LISTED IN THE QUALITY ASSURANCE/SPECIAL INSPECTION SECTION:



**S WHIDBEY PKS & REC AQUATIC REC CENTER**  
PID 812720 MAXWELTON RD  
LANGLEY, WA 98260



**100% DESIGN DEVELOPMENT**

ISSUE DATE: DECEMBER 01, 2023

REVISION SCHEDULE		
Rev #	Date	Description

CONTENTS:  
**GENERAL NOTES**

SCALE: 1/2" = 1'-0"  
DRAWN: DJM  
CHECKED: CAJ  
PROJECT NO: 2022201.000

SHEET:  
**S1**



STATEMENT OF SPECIAL INSPECTIONS:

SPECIAL INSPECTION: SPECIAL INSPECTION SHALL BE PROVIDED PER THE REQUIREMENTS OF IBC SECTION 1704 AND 1705 AND AS NOTED HEREIN.

STRUCTURAL SYSTEM	VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	COMMENTS	REFERENCES
SOILS	VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY		X		IBC 1705.6
	VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL		X		
	PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS		X		
	VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	X			
STEEL CONSTRUCTION	PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY		X		AISC 360 CHAPTER N5
	MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS		X		AISC 360 CHAPTER N5 AISC 341 CHAPTER J7
	HIGH-STRENGTH BOLTING A. SNUG-TIGHT JOINTS B. PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN-OF-NUT WITH MATCH-MARKING, TWIST OFF BOLTS OR DIRECT TENSION INDICATOR METHODS OF INSTALLATION		X		AISC 360 CHAPTER N5 AISC 341 CHAPTER J6
	MATERIAL VERIFICATION OF STRUCTURAL STEEL A. FOR STRUCTURAL STEEL, IDENTIFICATION MARKINGS TO CONFORM TO AISC 360 B. MANUFACTURER'S CERTIFIED MILL TEST REPORTS		X		AISC 360 CHAPTER N5 AISC 341 CHAPTER J6
STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL	MATERIAL VERIFICATION OF WELD FILLER MATERIALS A. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATIONS LISTED IN GENERAL NOTES B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE		X	MANUFACTURER TO PROVIDE CERTIFICATE OF COMPLIANCE	AISC 360 CHAPTER N5
	INSPECTION OF WELDING A. COMPLETE AND PARTIAL JOINT PENETRATION GROOVE WELDS B. MULTI-PASS FILLET WELDS C. SINGLE-PASS FILLET WELDS > 5/16" D. PLUG AND SLOT WELDS E. SINGLE-PASS FILLET WELDS ≤ 5/16" F. FIELD-INSTALLED WELDED STUDS G. WELDING OF STAIRS AND RAILING SYSTEMS	X		SPECIAL INSPECTIONS IN THIS SECTION MAY BE WAIVED WHERE FABRICATION IS PERFORMED ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED IN ACCORDANCE WITH IBC SECTION 1704.2.5 AND WITH APPROVAL OF THE BUILDING OFFICIAL.	AISC 360 CHAPTER N5 AISC 341 CHAPTER J6 AWS D1.1
	INSPECTION OF LATERAL FORCE-RESISTING SYSTEM CONNECTIONS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS		X		
	MATERIAL VERIFICATION OF COLD-FORMED STEEL DECK: A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS B. MANUFACTURER'S CERTIFIED TEST REPORTS		X		APPLICABLE ASTM STANDARDS & IBC 2210.1.1
CONCRETE	INSPECTION OF WELDING A. COLD-FORM STEEL DECK WELDS B. REINFORCING STEEL: 1. VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706 2. REINFORCING STEEL IN MOMENT FRAMES AND BOUNDARY ELEMENTS 3. SHEAR REINFORCEMENT 4. OTHER REINFORCING STEEL 5. OPEN WEB STEEL JOISTS & JOIST GIRDS A. END CONNECTIONS - WELDING OR BOLTED B. BRIDGING - HORIZONTAL OR DIAGONAL 1. STANDARD BRIDGING 2. BRIDGING THAT DIFFERS FROM THE SJI SPECIFICATIONS LISTED IN SECTION 2207.1	X			AWS D1.3 AWS D1.4 ACI 318 SECTION 26.6.4
	INSPECT REINFORCEMENT AND VERIFY PLACEMENT		X	SPECIAL INSPECTIONS NOT REQUIRED FOR THE FOLLOWING CONDITIONS:	ACI 318: CH 20, 25.2, 25.3, 26.6-1 TO 26.6-3, IBC 1908.4
	ANCHORS CAST IN CONCRETE-PRIOR TO AND DURING PLACEMENT OF CONCRETE		X	NON-STRUCTURAL SLAB ON GRADE	ACI 318: 17.8.2 AISC 360 SECTION N7
	VERIFY USE OF REQUIRED DESIGN MIX		X	CONCRETE FOUNDATION WALLS WITH Fc ≤ 2500 PSI	ACI 318, CH 19
STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL	PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	X		ISOLATED SPREAD FOOTINGS FOR BUILDINGS THREE-STORIES AND LESS ABOVE GRADE PLANE	ASTM C172, C31 ACI 318: 26.4, 26.12 IBC 1908.10
	CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION	X		CONTINUOUS FOOTINGS SUPPORTING WALLS OF THREE-STORIES AND LESS ABOVE GRADE PLANE WHERE WALLS ARE LIGHT-FRAME CONSTRUCTION AND STRUCTURAL DESIGN IS BASED ON Fc ≤ 2500 PSI	ACI 318: 26.5 IBC 1908.6, 1908.7, 1908.8
	MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	X			ACI 318: 26.5.3 TO 26.5.5 IBC 1908.9
	ANCHORS POST-INSTALLED IN HARDENED CONCRETE (MECHANICAL ANCHORS INSTALLED IN ANY DIRECTION AND ADHESIVE ANCHORS INSTALLED DOWNWARD)		X	PERIODIC INSPECTION TO INCLUDE A QUANTITY OF 10% WITH A MINIMUM OF (5) ANCHORS INSPECTED PER INSTALLER ON A DAILY BASIS.	ACI 318: 17.8.2 MFR EVAL REPORT MFR PUBLISHED INSTALLATION INSTRUCTIONS
CONCRETE	ANCHORS POST-INSTALLED IN HARDENED CONCRETE (ADHESIVE ANCHORS INSTALLED HORIZONTAL OR UPWARDLY INCLINED)	X			ACI 318: 17.8.2 MFR EVAL REPORT MFR PUBLISHED INSTALLATION INSTRUCTIONS
	VERIFICATION OF IN-SITU CONCRETE STRENGTH PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS		X		ACI 318: 26.11.2
	INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED		X		ACI 318: 26.11.1,2(b)
	MATERIAL VERIFICATION OF REINFORCEMENT STEEL FOR ASTM A615 REINFORCING		X	MANUFACTURER SHALL PROVIDE MILL TEST REPORTS. CONTINUOUS INSPECTION FOR ALL WELDS GREATER THAN 5/16" FILLET. PERIODIC INSPECTION FOR FILLET WELD 5/16" AND SMALLER	ACI 318: 26.6.4 AWS D1.4 IBC 1705.3.1
TESTING OF MATERIALS		X		IBC 1705.3.2	

STRUCTURAL SYSTEM	VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	COMMENTS	REFERENCES
WOOD FRAMING	DIAPHRAGM NAILING		X		IBC 1705.11.1, 1705.12.2, 1705.5
	NAILING, SCREWS, BOLTING, AND ANCHORAGE OF COMPONENTS THAT ARE PART OF DRAG STRUTS, BRACES AND HOLD-DOWNS THAT ARE PART OF THE SEISMIC RESISTING SYSTEM		X	COLLECTOR STRAPS AND PLATES	IBC 1705.11.1, 1705.12.2
	SCREWS CONNECTING CLT PANELS TO SUPPORTING FRAMING		X	VERIFY SCREW MAKE, DIAMETER LENGTH AND SPACING	
	BOLTING AND CONNECTIONS OF TIMBER BEAMS AND COLUMNS		X	VERIFY FIT UP, BOLT DIAMETER, AND LIMITATION ON OVERCUTS	
MASS TIMBER	INSPECT ERECTION OF MASS TIMBER CONSTRUCTION INCLUDING COLUMNS, BEAMS, AND PANELS FOR FIT UP AND LIMITATIONS ON CUTS. THREADED FASTENERS		X		IBC 1705.5.3
	A. VERIFY USE OF PROPER INSTALLATION EQUIPMENT B. VERIFY USE OF PRE-DRILLED HOLES WHERE REQUIRED C. INSPECT SCREWS, INCLUDING DIAMETER, LENGTH, HEAD TYPE, SPACING INSTALLATION ANGLE AND DEPTH D. ADHESIVE ANCHORS		X		
	BOLTED CONNECTIONS		X		
	CONCEALED CONNECTIONS		X		
COLD-FORMED STEEL FRAMING	DIAPHRAGM NAILING AT MASS TIMBER PANEL SPLINES		X		IBC 1705.11.1, 1705.12.2, 1705.5
	DIAPHRAGM STRAPS, DRAG STRUTS, BRACES, AND OTHER PARTS OF THE SEISMIC FORCE RESISTING SYSTEM		X		IBC 1705.11.1, 1705.12.2
	SCREW ATTACHMENT, WELDING, BOLTING, ANCHORING AND FASTENING OF ELEMENTS OF SEISMIC RESISTING SYSTEM INCLUDING SHEAR WALLS, BRACES, DIAPHRAGMS, COLLECTORS (DRAG STRUTS) AND HOLD-DOWNS		X	NOT REQUIRED WHERE SHEATHING IS GYPSUM BOARD OR FIBERBOARD OR WHEN THE SHEATHING IS WOOD STRUCTURAL PANEL OR STEEL SHEETS ON (1) SIDE AND WITH SCREWS SPACED GREATER THAN 4" O.C.	IBC 1705.12.3, 1705.11.2 AWS D1.3
	EXTERIOR WALLS		X		IBC 1705.11.3, 1705.12.5
SUSPENDED CEILING	ANCHORAGE AND SEISMIC BRACING		X		
PIPING SYSTEMS AND MECHANICAL UNITS CONTAINING HAZARDOUS MATERIALS	ANCHORAGE AND BRACING OF EQUIPMENT TO STRUCTURE		X		IBC 1705.12.6
VIBRATION ISOLATION SYSTEMS	INSTALLATION OF SYSTEMS REQUIRING ≤ 1/4 INCH CLEARANCE BETWEEN EQUIPMENT SUPPORT FRAME AND RESTRAINT		X		IBC 1705.12.6, 1705.12.8

TESTING AND SPECIAL INSPECTION REPORTS SHALL BE PREPARED FOR EACH INSPECTION ITEM ON A DAILY BASIS WHENEVER WORK IS PERFORMED ON THAT ITEM. REPORTS SHALL BE DISTRIBUTED TO OWNER, CONTRACTOR, BUILDING OFFICIAL, ARCHITECT AND STRUCTURAL ENGINEER OF RECORD.

STRUCTURAL OBSERVATIONS SHALL BE PERFORMED BY THE STRUCTURAL ENGINEER OF RECORD OR DESIGNATED REPRESENTATIVE IN ACCORDANCE WITH IBC 1704.6. STRUCTURAL OBSERVATION SHALL BE PERFORMED AS FOLLOWS:

- » PERIODIC VISUAL OBSERVATION OF STRUCTURAL SYSTEMS FOR GENERAL CONFORMANCE TO CONSTRUCTION DOCUMENTS AT SIGNIFICANT CONSTRUCTION STAGES.
- » REVIEW OF TESTING AND INSPECTION REPORTS.
- » REPORTS SHALL BE PREPARED FOR EACH SITE VISIT AND SHALL BE DISTRIBUTED TO ARCHITECT.

GENERAL CONTRACTOR SHALL SUBMIT A WRITTEN CONTRACTOR'S STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND OWNER PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL INCLUDE ACKNOWLEDGMENT OF AWARENESS OF THE SPECIAL INSPECTION REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTION.

⊙	AT	DCW	DEMAND CRITICAL WELD	H&R	HANGER	P.P.T.	PRESERVATIVE PRESSURE TREATED
A.B.	ANCHOR BOLT	D.F.	DOUGLAS FIR	HORIZ.	HORIZONTAL	P.S.F.	POUNDS PER SQUARE FOOT
ADD'L	ADDITIONAL	DIA. OR ⌀	DIAMETER	HSS	HOLLOW STRUCTURAL SECTION	PSL	PARALLAM
A.F.F.	ABOVE FINISH FLOOR	DIA.	DIAGONAL	HT	HEIGHT	P.T.	POST TENSION
ALT.	ALTERNATE	DIM.	DIMENSION	INT.	INTERIOR	PNL	PLYWOOD
ARCH.	ARCHITECTURAL	D.L.	DEAD LOAD	JST	JOIST	REINF.	REINFORCEMENT
BLD'G	BUILDING	DLT	DOWEL-LAMINATED TIMBER	JT	JOINT	REQ'D	REQUIRED
BLK'G	BLOCKING	DKG	DRAWING	L	ANGLE	SCHED.	SCHEDULE
BM	BEAM	DWL	DOWEL	L.F.R.S.	LATERAL FORCE-RESISTING SYSTEM	SCL	STRUCTURAL COMPOSITE LUMBER
B.O.F.	BOTTOM OF FOOTING	(E)	EXISTING	L.L.	LIVE LOAD	SHT'G	SHEATHING
BOT.	BOTTOM	E.A.	EACH	LLH	LONG LEG HORIZONTAL	SIM.	SIMILAR
BRB	BUCKLING RESTRAINED BRACE	E.F.	EACH FACE	LLV	LONG LEG VERTICAL	S.O.G.	SLAB ON GRADE
BRG	BEARING	EL.	ELEVATION	LOC.	LOCATION	SG.	SQUARE
BTWN	BETWEEN	ELEV.	ELEVATOR	LSL	LAMINATED STRAND LUMBER	STD	STANDARD
B.U.	BUILT UP	ENG.	ENGINEER	LVL	LAMINATED VENEER LUMBER	STIFF.	STIFFENER
(C- )	CAMBER	EQ.	EQUAL	MAX.	MAXIMUM	STL	STEEL
CANT.	CANTILEVER	E.W.	EACH WAY	M.B.	MACHINE BOLT	STRUCT.	STRUCTURAL
C.F.S.	COLD-FORMED STEEL	EXP.	EXPANSION	MECH.	MECHANICAL	T&B	TOP & BOTTOM
C.J.	CONTROL/CONSTRUCTION JOINT	EXT.	EXTERIOR	MEZZ.	MEZZANINE	T&G	TONGUE AND GROOVE
CL	CENTERLINE	FDN	FOUNDATION	MFR	MANUFACTURER	THRD	THREADED
CLR.	CLEARANCE	F.F.	FAR FACE	MIN.	MINIMUM	T.O.F.	TOP OF FOOTING
CLT	CROSS-LAMINATED TIMBER PANEL	FLR	FLOOR	MISC.	MISCELLANEOUS	T.O.S.	TOP OF STEEL
CMU	CONCRETE MASONRY UNIT	F.O.M.	FACE OF MASONRY	MTL	METAL	TRTD	TREATED
COL.	COLUMN	F.O.S.	FACE OF STUD	MT	MASS TIMBER SCREW	TYP.	TYPICAL
CONC.	CONCRETE	FRMG	FRAMING	N.F.	NEAR FACE	U.N.O.	UNLESS NOTED OTHERWISE
CONN.	CONNECTION	F.R.T.	FIRE RETARDANT TREATED	N.S.	NEAR SIDE	U.T.	ULTRASONIC TESTED
CONST.	CONSTRUCTION	F.S.	FAR SIDE	NTS	NOT TO SCALE	VERT.	VERTICAL
CONT.	CONTINUOUS	FTG	FOOTING	O.C.	ON CENTER	W/	WITH
CONTR.	CONTRACTOR	GA.	GAGE/GAUGE	OPN'G	OPENING	W.P.	WORK POINT
COORD.	COORDINATE	GALV.	GALVANIZED	OPP.	OPPOSITE	WT	WEIGHT
C.P.	COMPLETE PENETRATION	GL.	GLULAM	P.A.F.	POWDER ACTUATED FASTENER	W.W.R.	WELDED WIRE REINFORCING
CTR'D	CENTERED	GR.	GRADE	PERP.	PERPENDICULAR		
C.Y.	CUBIC YARD	GWB	GYPSUM WALL BOARD	PL	PLATE		
DBL.	DOUBLE	HDR	HEADER	P.P.	PARTIAL PENETRATION		



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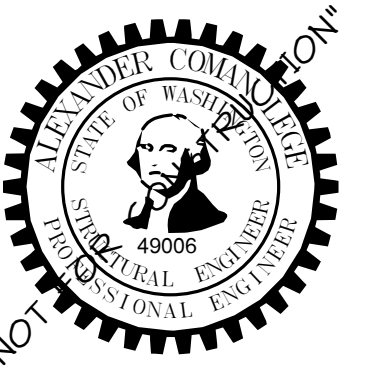
REVISION SCHEDULE		
Rev #	Date	Description

CONTENTS:  
**GENERAL NOTES**

SCALE: 1/2" = 1'-0"  
DRAWN: DJM  
CHECKED: CAJ  
PROJECT NO: 2022201000

SHEET:  
**S1.2**





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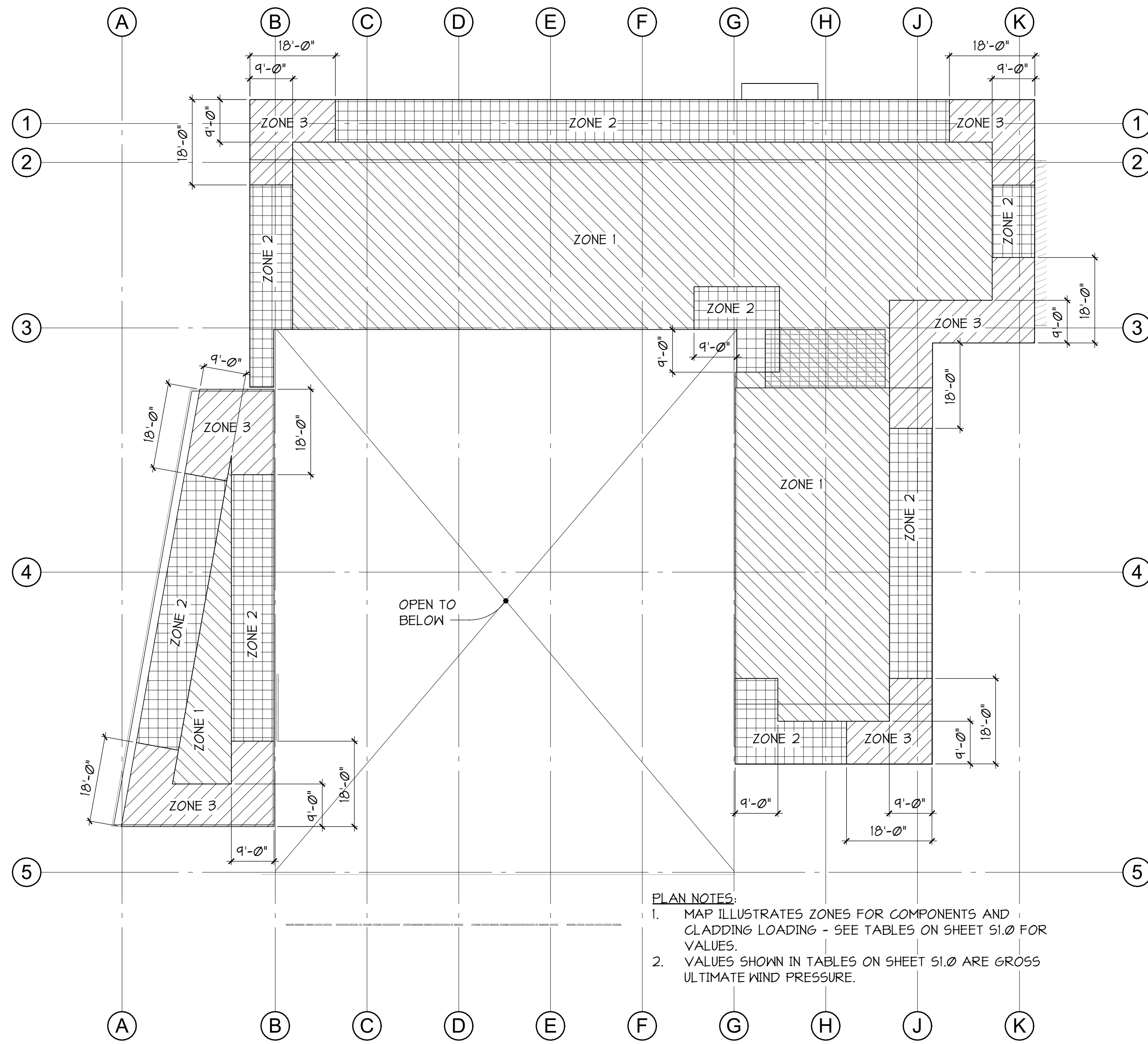
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Rev #	Date	Description

CONTENTS:  
**WIND PRESSURE  
ROOF ZONES**

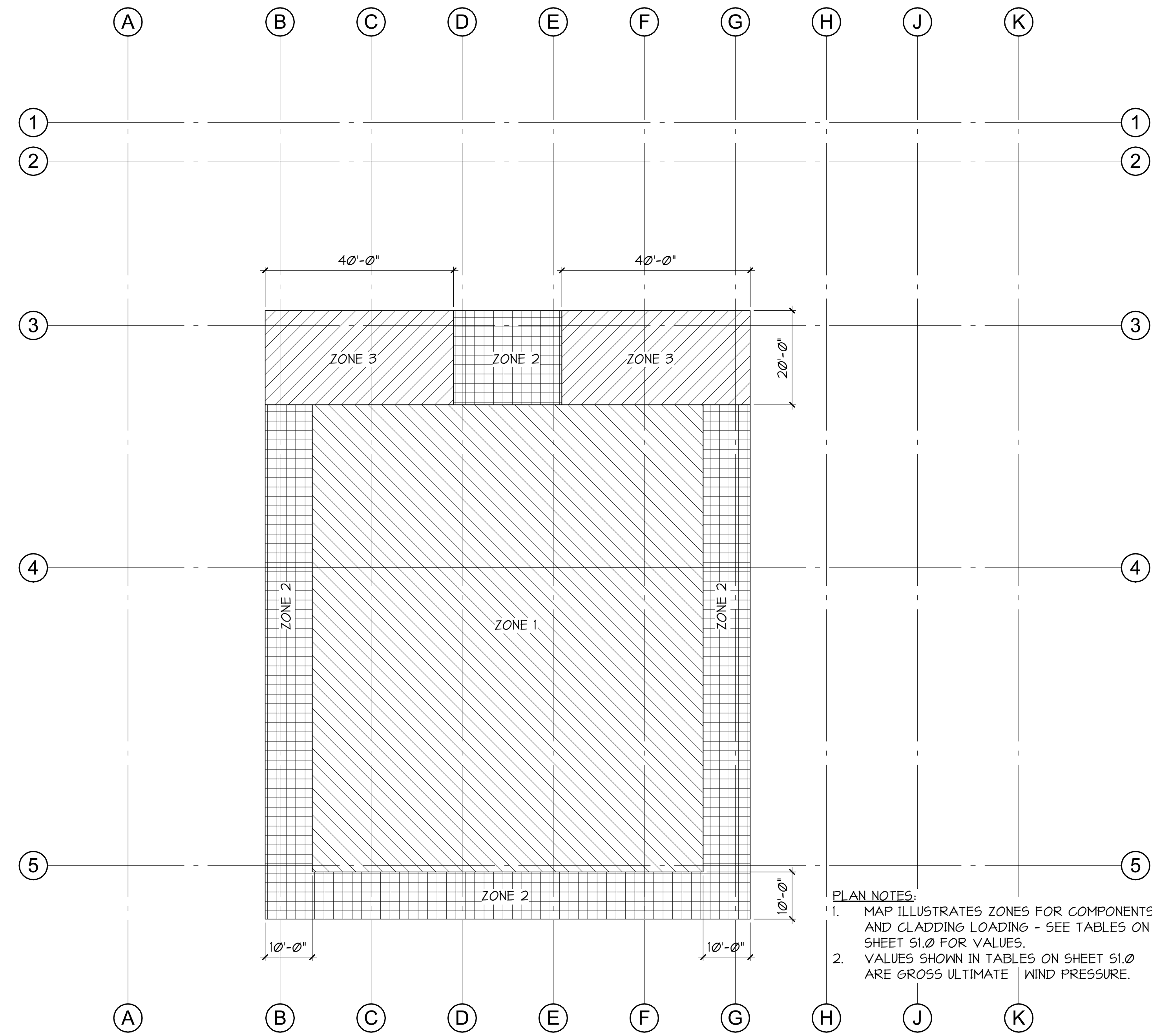
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DRAWN: DEH  
CHECKED: CAJ  
PROJECT NO: 2022021.000

SHEET  
**S1.5**



**PLAN NOTES:**  
1. MAP ILLUSTRATES ZONES FOR COMPONENTS AND CLADDING LOADING - SEE TABLES ON SHEET S1.0 FOR VALUES.  
2. VALUES SHOWN IN TABLES ON SHEET S1.0 ARE GROSS ULTIMATE WIND PRESSURE.

**1 LOW ROOF WIND ZONES PLAN**  
1/16" = 1'-0"



**PLAN NOTES:**  
1. MAP ILLUSTRATES ZONES FOR COMPONENTS AND CLADDING LOADING - SEE TABLES ON SHEET S1.0 FOR VALUES.  
2. VALUES SHOWN IN TABLES ON SHEET S1.0 ARE GROSS ULTIMATE WIND PRESSURE.

**2 HIGH ROOF WIND ZONES PLAN**  
1/16" = 1'-0"





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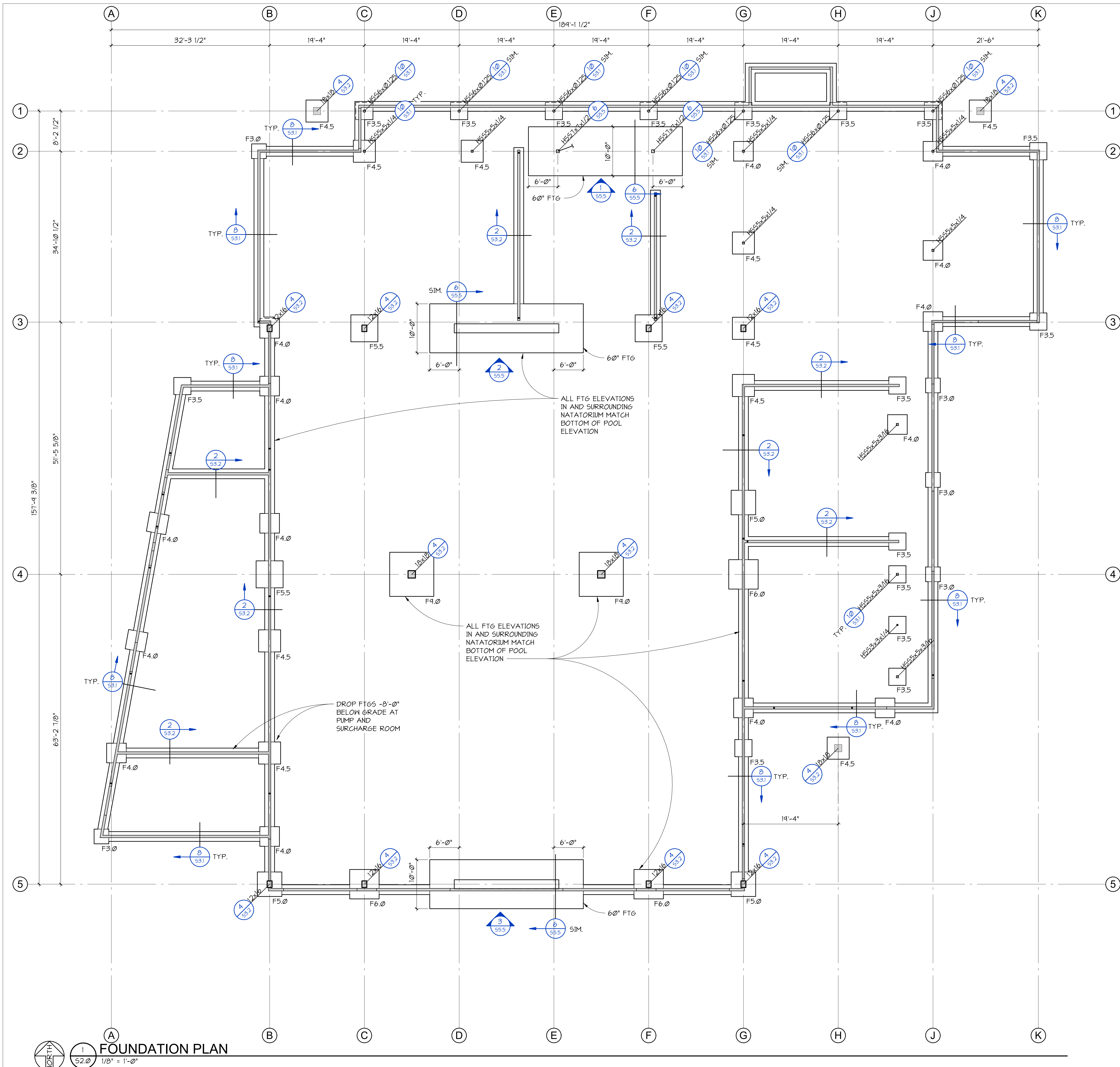
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Rev #	Date	Description

CONTENTS:  
**FOUNDATION PLAN**

SCALE: 1/8" = 1'-0"  
 DRAWN: DJM  
 CHECKED: CAJ  
 PROJECT NO: 2022021.000

SHEET:  
**S2.0**



- FOUNDATION NOTES**
- COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
  - REFERENCE ELEVATION XXX.XX = 0'-0".
  - TOP OF SLAB = 0'-0" UNLESS NOTED OTHERWISE.
  - TOP OF FOOTING ELEVATIONS = -1'-0" UNLESS NOTED OTHERWISE ON PLANS AND DETAILS.
  - INDICATES CONCRETE STEM WALL. FOR TOP OF WALL REQUIREMENTS AND CALLOUTS - SEE GRADE LEVEL FRAMING PLANS.
  - INDICATES CONTINUOUS CONCRETE WALL FOOTINGS. FOR TYPICAL FOOTING AND STEM WALL DETAILS - SEE SHEETS 53.1. FOOTING WIDTH ("W") = 2'-0" UNLESS NOTED OTHERWISE ON PLAN. CENTER FOOTINGS ON CONCRETE STEM WALL. EXTEND FOOTINGS 6" MINIMUM PAST ENDS OF WALL UNLESS NOTED OTHERWISE.
  - "F\_" INDICATES CONCRETE SPREAD FOOTING - FOR SCHEDULE SEE 4/53.1.
  - INDICATES STEEL COLUMNS ORIGINATING AT FOUNDATION LEVEL. ALL COLUMNS ARE CONTINUOUS TO ROOF UNLESS NOTED OTHERWISE. FOR TYPICAL ANCHOR ROD/BOLT DETAIL - SEE 10/53.1.
  - FOR TYPICAL FOUNDATION DETAILS SEE SHEETS 53.0 AND 53.1.
  - FOR TYPICAL PLACEMENT OF STEM WALL REINFORCEMENT, STEPS IN FOOTING, AND FOUNDATION CONSTRUCTION JOINTS - SEE DETAILS 4/53.1, 1/53.1, AND 6/53.1 RESPECTIVELY.
  - CONCRETE PEDESTAL PER DETAIL 4/53.2.

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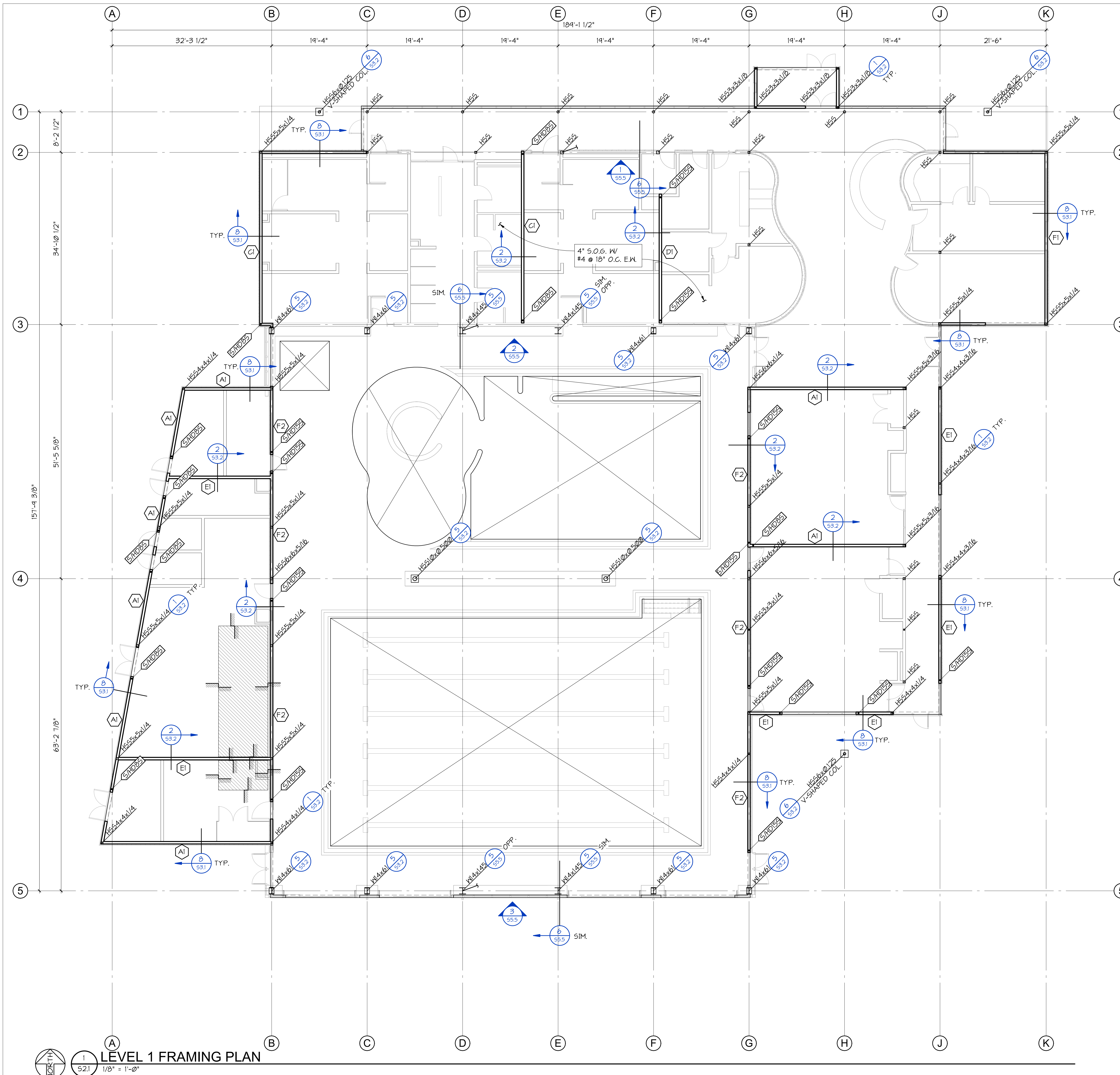
ISSUE DATE: DECEMBER 01, 2023

REVISION SCHEDULE		
Rev #	Date	Description

CONTENTS:  
**LEVEL 1 FRAMING  
 PLAN**

SCALE: 1/8" = 1'-0"  
 DRAWN: DJM  
 CHECKED: CAJ  
 PROJECT NO: 202201000

SHEET:  
**S2.1**



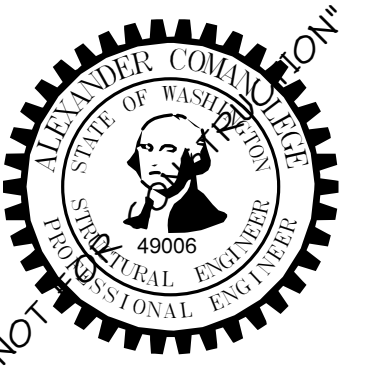
- GRADE LEVEL FRAMING NOTES**
- COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
  - TOP OF SLAB = 0'-0" UNLESS NOTED OTHERWISE.
  - INDICATES 600S162-54 AT 16" ON CENTER EXTERIOR METAL STUD WALL UNLESS NOTED OTHERWISE IN PLANS OR DETAILS. FOR SCHEDULE - SEE 2/51.0 OR 4/51.0. FOR TYPICAL METAL STUD WALL DETAILS - SEE SHEETS 51.1, AND 51.2.
  - INDICATES BRACED FRAME. FOR ELEVATIONS, BRACE SIZES, AND DETAIL CALLOUTS - SEE SHEET 55.5.
  - INDICATES STEEL COLUMNS ORIGINATING AT SLAB LEVEL. ALL COLUMNS ARE CONTINUOUS TO ROOF UNLESS NOTED OTHERWISE. FOR TYPICAL ANCHOR ROD/BOLT DETAIL - SEE 1/53.2.
  - INDICATES TYPE OF CONTINUOUS COLUMN FROM LEVEL BELOW AND CONTINUING ON TO LEVEL ABOVE.
  - INDICATES MECHANICAL UNIT AND MAXIMUM WEIGHT - SEE MECHANICAL FOR HOUSEKEEPING PADS. FOR TYPICAL REINFORCING DETAIL FOR PADS - SEE 10/53.0.
  - INDICATES SLOPED AND/OR DEPRESSED SLAB-ON-GRADE - SEE ARCHITECTURAL FOR EXACT LOCATIONS. FOR TYPICAL REINFORCING - SEE DETAILS 5/53.0 AND 6/53.0.
  - FOR TYPICAL CONCRETE SLAB-ON-GRADE DETAILS - SEE SHEET 53.0.
  - INDICATES NON-STRUCTURAL STUD WALLS. ALL WALLS ARE NOT SHOWN. FOR LOCATION - SEE ARCHITECTURAL. FOR BRACING AT TOPS OF WALLS - SEE SHEET 51.2. FOR SCHEDULE AND TYPICAL FRAMING - SEE SHEETS 51.0 AND 51.1.
  - FOR SITE STRUCTURES INCLUDING CANOPIES, WALKWAYS, SITE SIGNS, ETC. - SEE ARCHITECTURAL.
  - FOR TRENCHES IN SLAB-ON-GRADE - SEE ARCHITECTURAL/MECHANICAL. FOR TYPICAL REINFORCING - SEE 11/53.0.

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**LEVEL 1 FRAMING PLAN**  
 1/8" = 1'-0"





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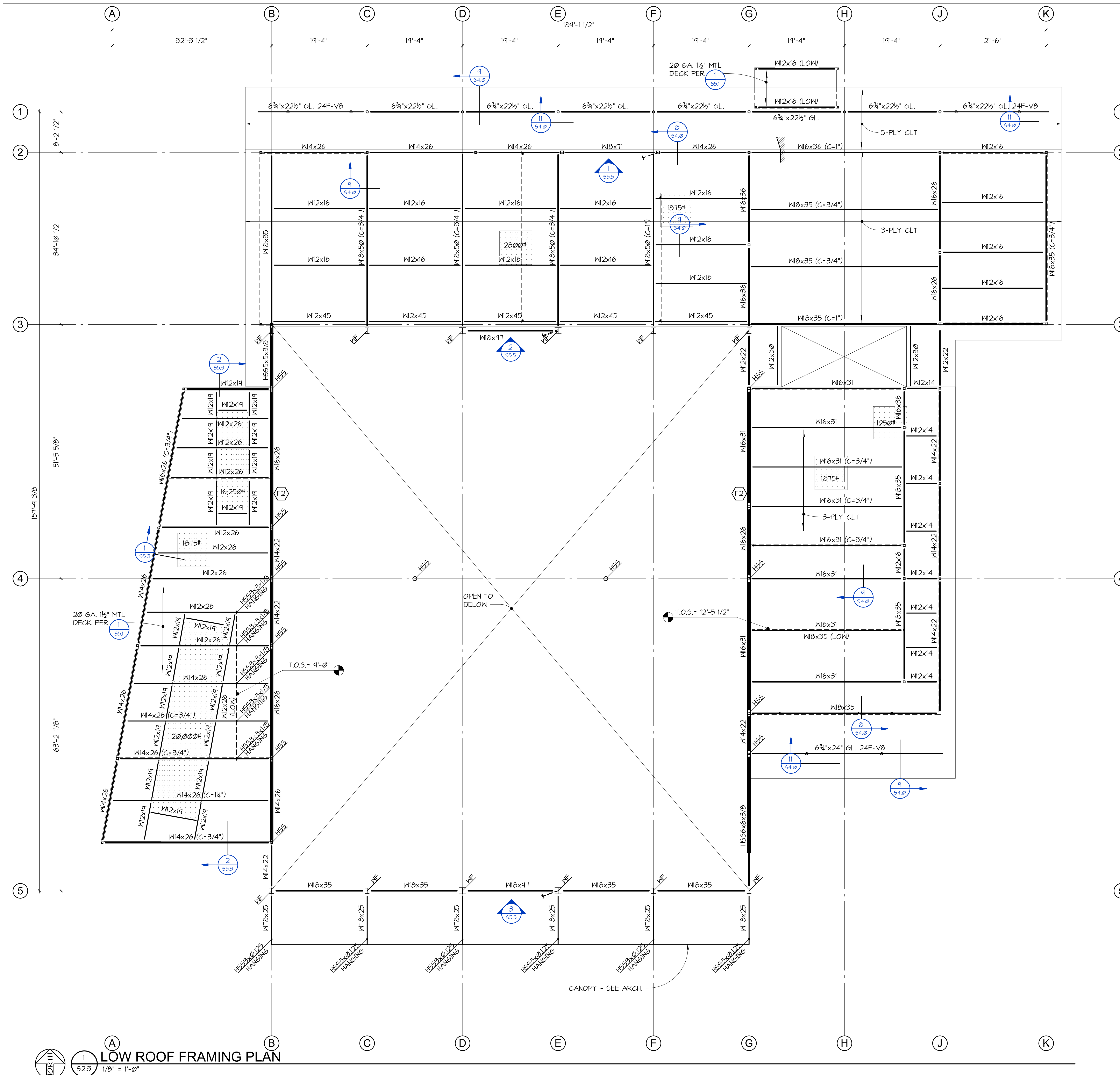
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Rev #	Date	Description

CONTENTS:  
**LOW ROOF FRAMING  
PLAN**

SCALE: 1/8" = 1'-0"  
DRAWN: DJR  
CHECKED: CAJ  
PROJECT NO: 2022021.000

SHEET:  
**S2.3**



- ROOF FRAMING NOTES**
- INDICATES LIGHT GAUGE METAL STUD WALL EXTENDING ABOVE ROOF TO FORM A PARAPET.
  - INDICATES WALL BELOW EXTENDING TO ROOF STRUCTURE.
  - INDICATES MECHANICAL UNIT WITH MAXIMUM WEIGHT SHOWN. FOR TYPICAL SUPPORT DETAIL - SEE 3/55.1. FOR CLARITY - ONLY LARGE (OVER 600 POUNDS) UNITS ARE SHOWN. FOR SUPPORT FRAMING AT MECHANICAL UNITS AND FANS (LESS THAN 75 POUNDS) - SEE 2/55.1. SEE MECHANICAL FOR LOCATIONS.
  - INDICATES DIRECTION OF SPAN FOR METAL DECK OR CROSS-LAMINATED TIMBER PANELS. FOR TYPICAL METAL DECK - SEE SHEET 55.1. FOR TYPICAL CROSS-LAMINATED TIMBER PANELS - SEE SHEET 54.0.
  - INDICATES PENETRATION IN ROOF. NOT ALL OPENINGS ARE SHOWN. FOR ADDITIONAL MISCELLANEOUS OPENINGS IN ROOF - SEE ARCHITECTURAL AND MECHANICAL DRAWINGS. SEE 3/55.1 FOR TYPICAL SUPPORT AROUND OPENINGS.
  - FOR TYPICAL STEEL CONNECTION DETAILS - SEE SHEET 55.0. SEE BRACED FRAME ELEVATIONS FOR CONNECTION CALLOUTS. ALL MEMBERS AND CONNECTIONS THAT ARE PART OF A BRACED FRAME SHALL BE CONSIDERED PART OF THE LATERAL FORCE-RESISTING SYSTEM.
- INDICATES A LATERAL CONNECTION. FOR DETAIL CALLOUT - SEE PLANS. ASSOCIATED MEMBERS AND CONNECTIONS ARE PART OF THE LATERAL FORCE-RESISTING SYSTEM.
- INDICATES BEAM/GIRDER CAMBER IN INCHES
- INDICATES BEAM/GIRDER SIZE
- INDICATES MOMENT CONNECTION PER 6/55.0
- CANTILEVER BEAM SECTION IS THE SAME SIZE AS THE BACKSPAN UNLESS NOTED OTHERWISE
- PLAN CALLOUTS INDICATE SPECIAL CONNECTION DETAIL
- INDICATES TYPE OF CONTINUOUS COLUMN FROM LEVEL BELOW AND CONTINUING ON TO LEVEL ABOVE.
- INDICATES STEEL COLUMN DISCONTINUING AT ROOF LEVEL.
- SEE ARCHITECTURAL DRAWINGS FOR MISCELLANEOUS/ORNAMENTAL (NON-STRUCTURAL) STEEL THROUGHOUT THE BUILDING.
- STEEL MEMBERS ARE EQUALLY SPACED BETWEEN DIMENSION POINTS UNLESS NOTED OTHERWISE.
- INDICATES BRACED FRAME - SEE SHEET 55.5 FOR ELEVATIONS AND DETAIL CALLOUTS. ASSOCIATED MEMBERS AND CONNECTIONS ARE PART OF THE SEISMIC FORCE-RESISTING SYSTEM.

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**LOW ROOF FRAMING PLAN**  
1/8" = 1'-0"









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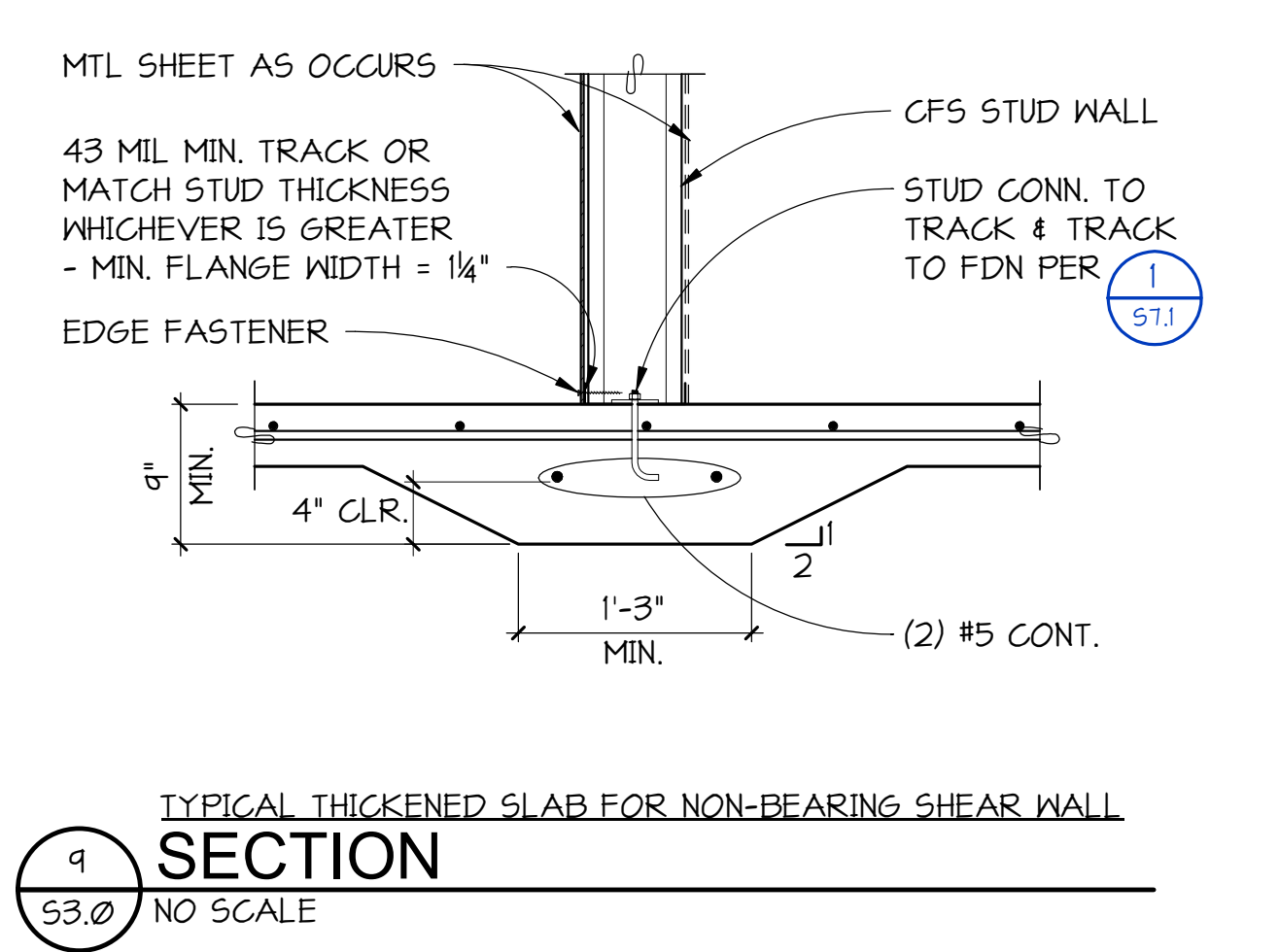
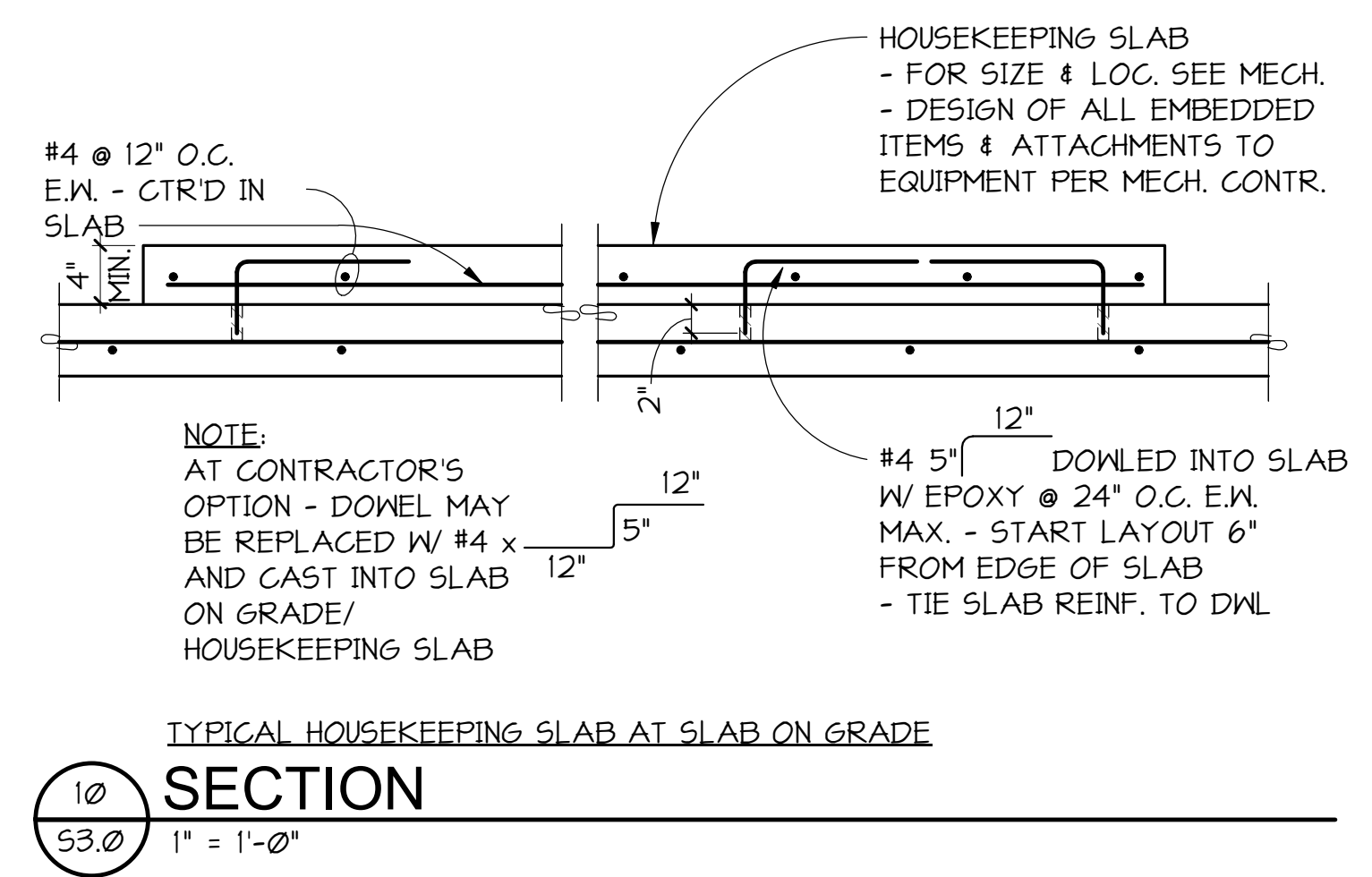
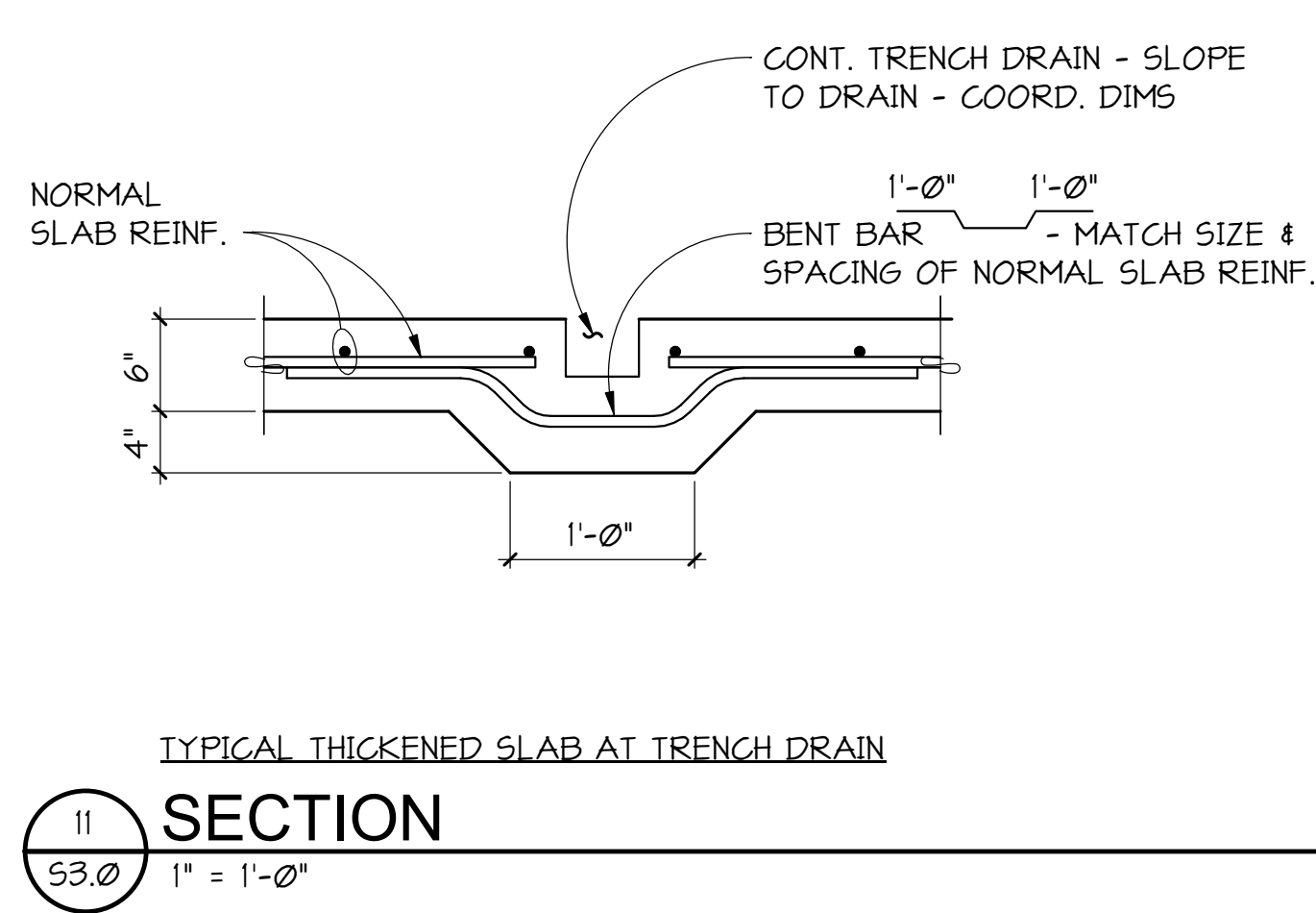
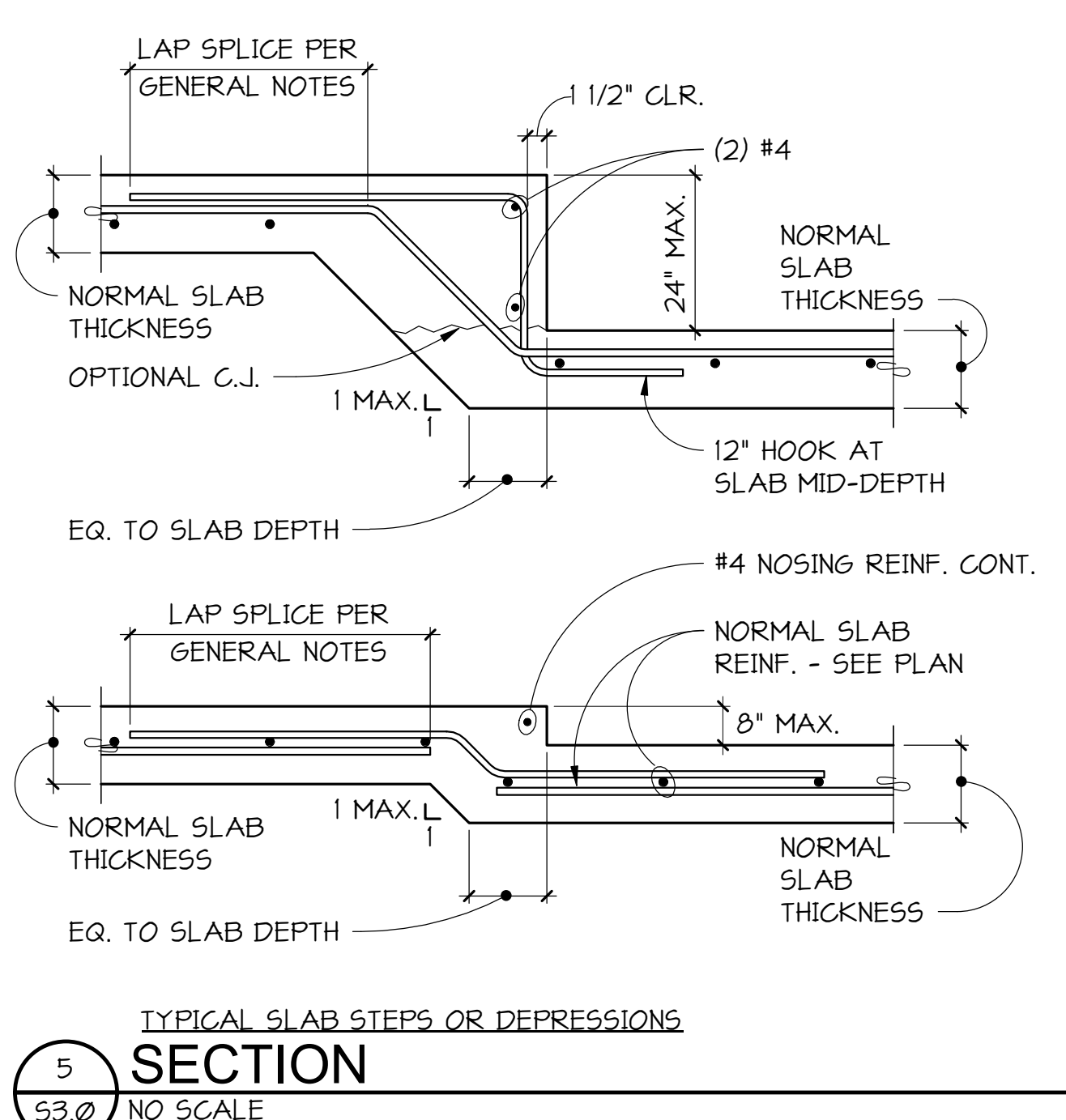
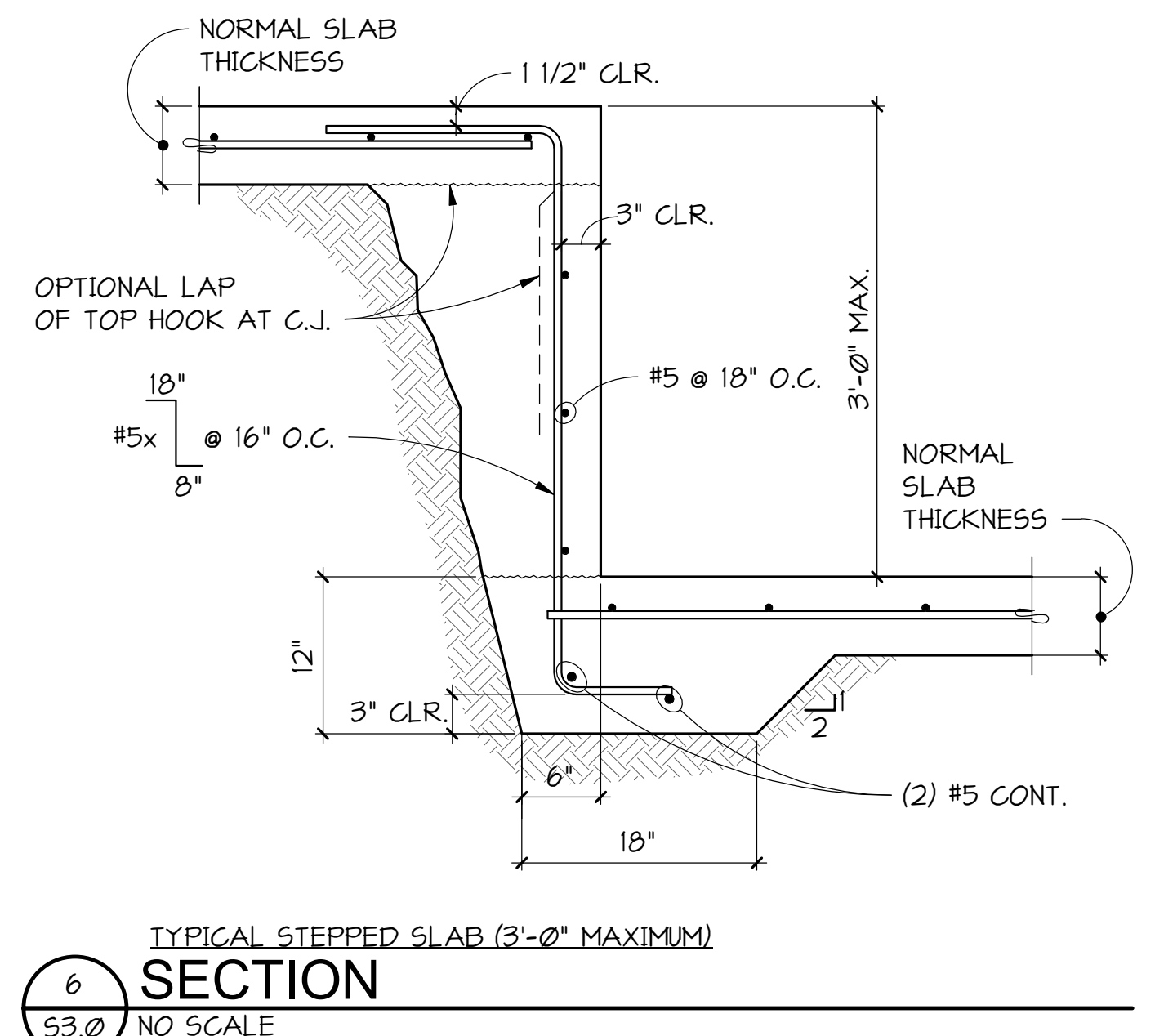
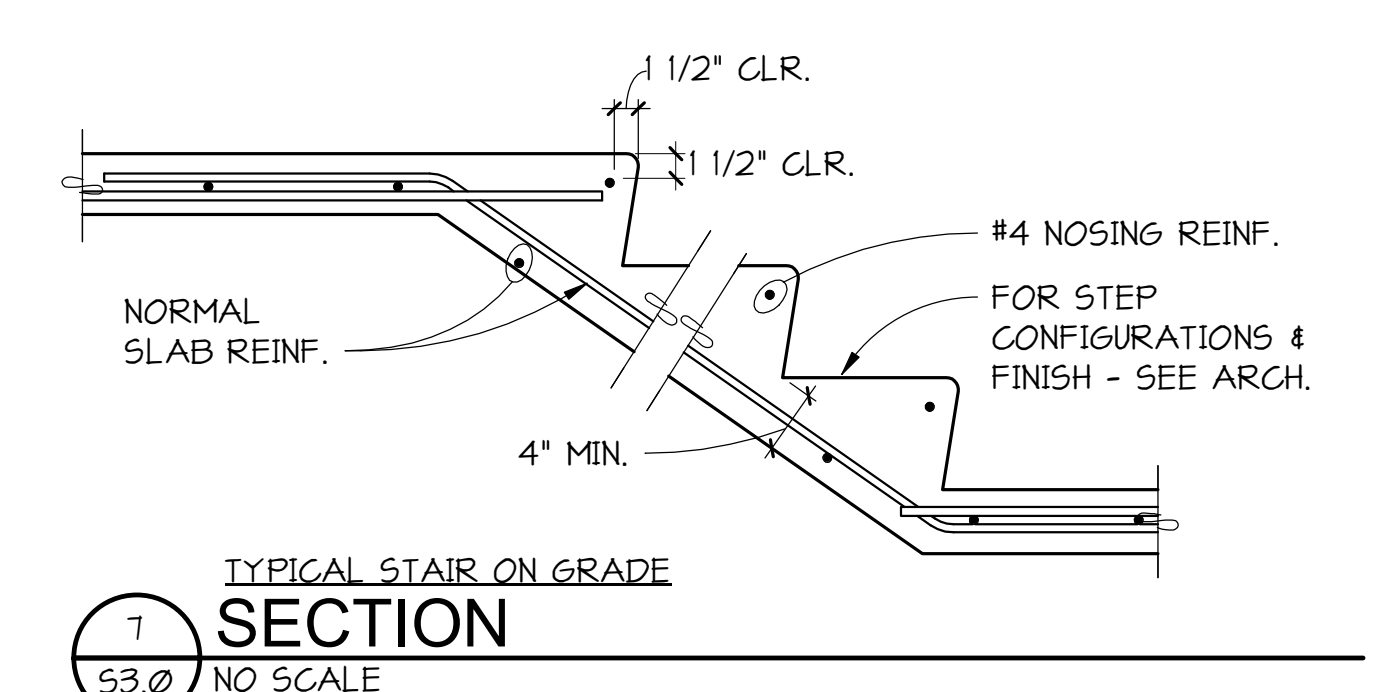
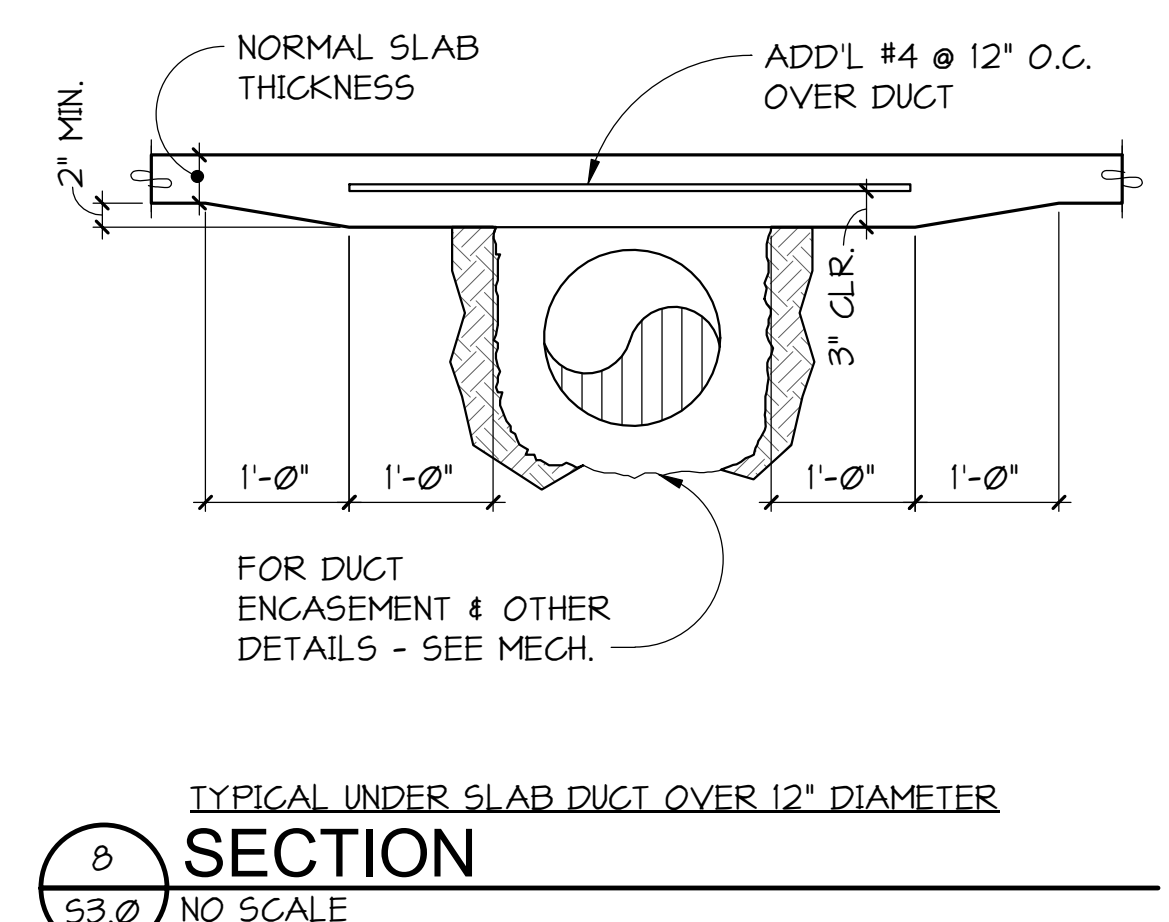
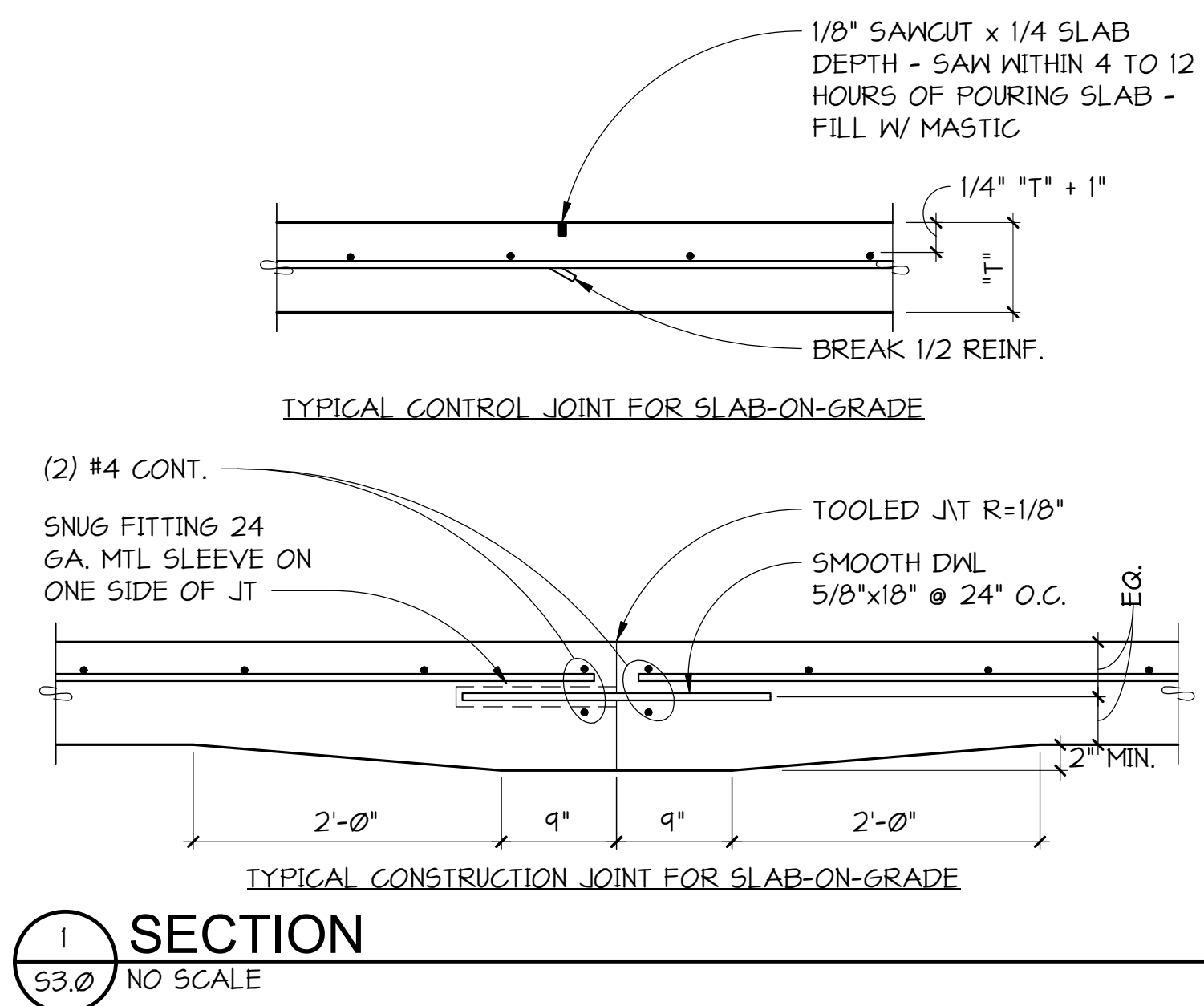
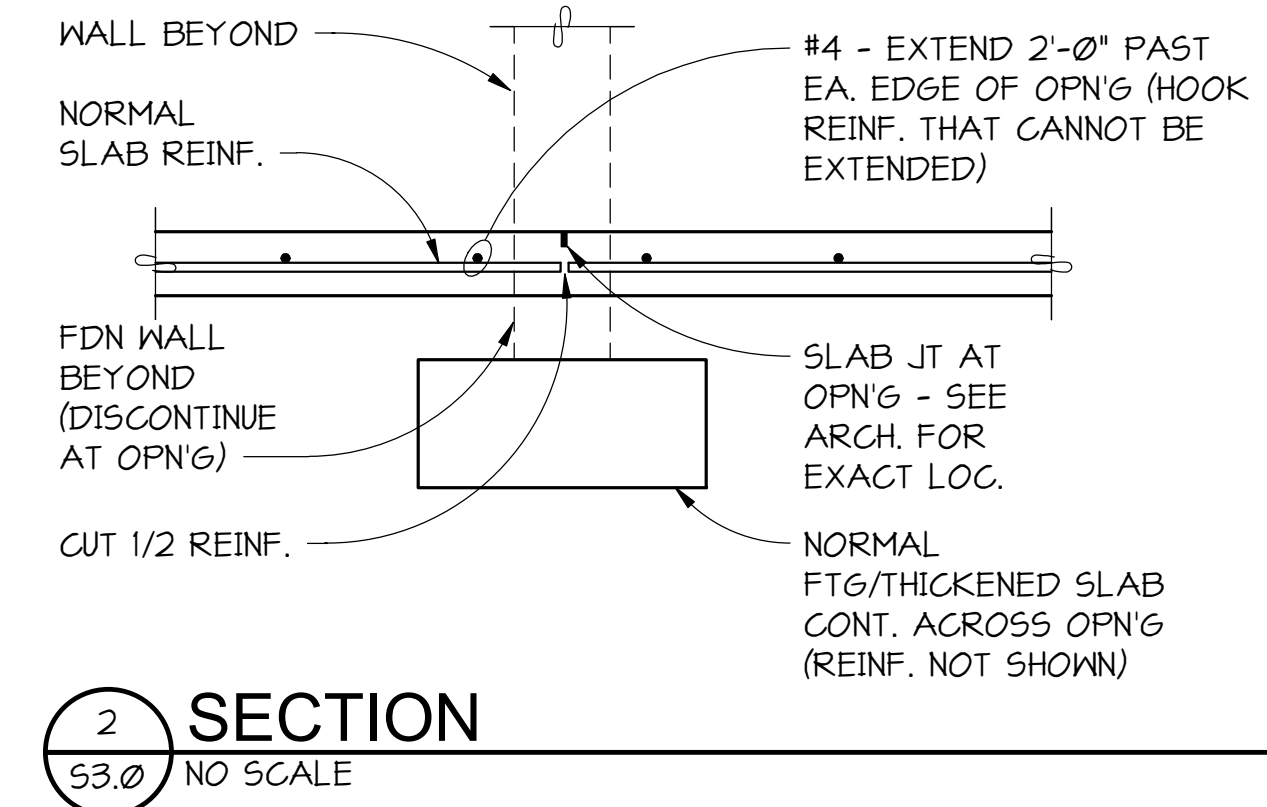
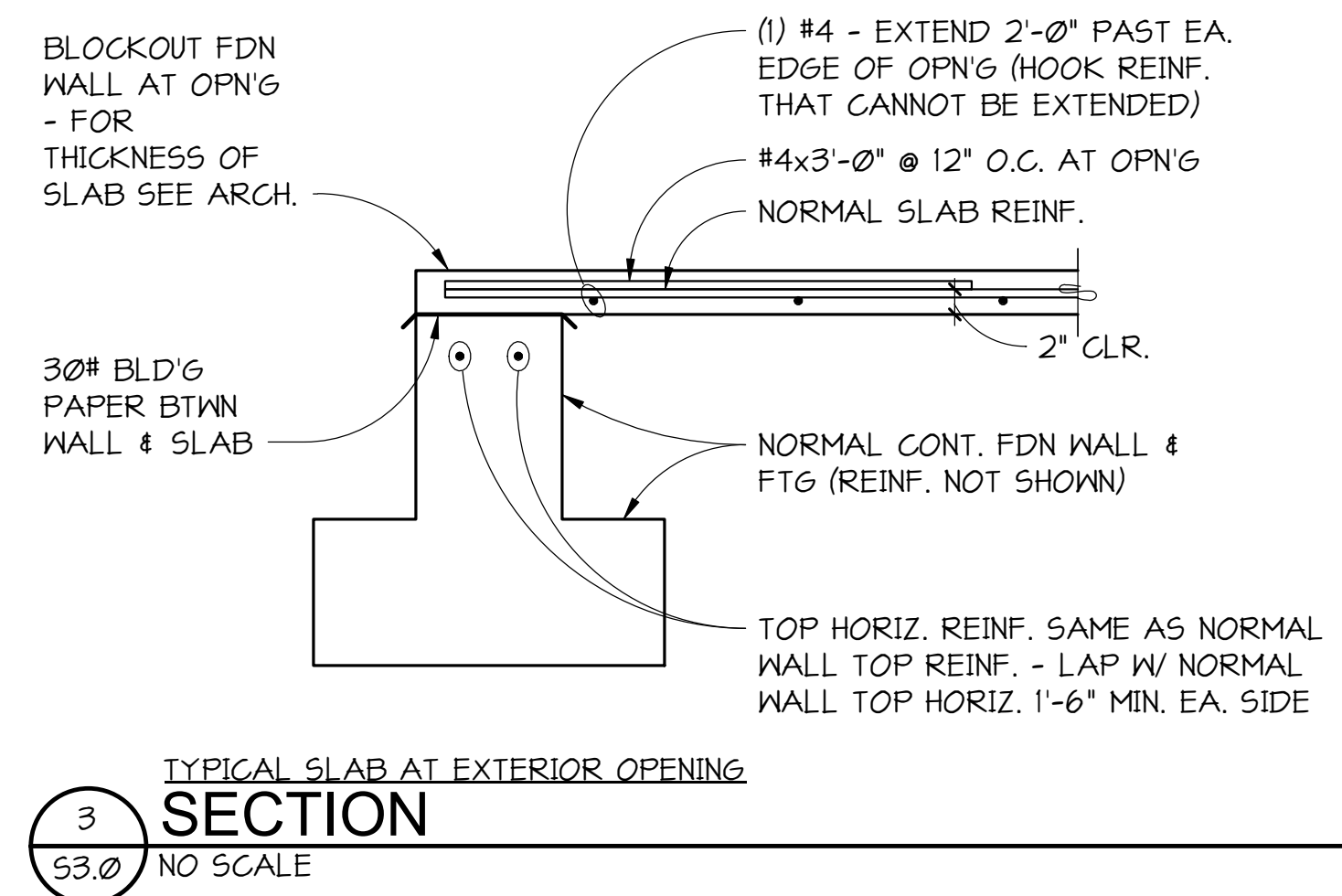
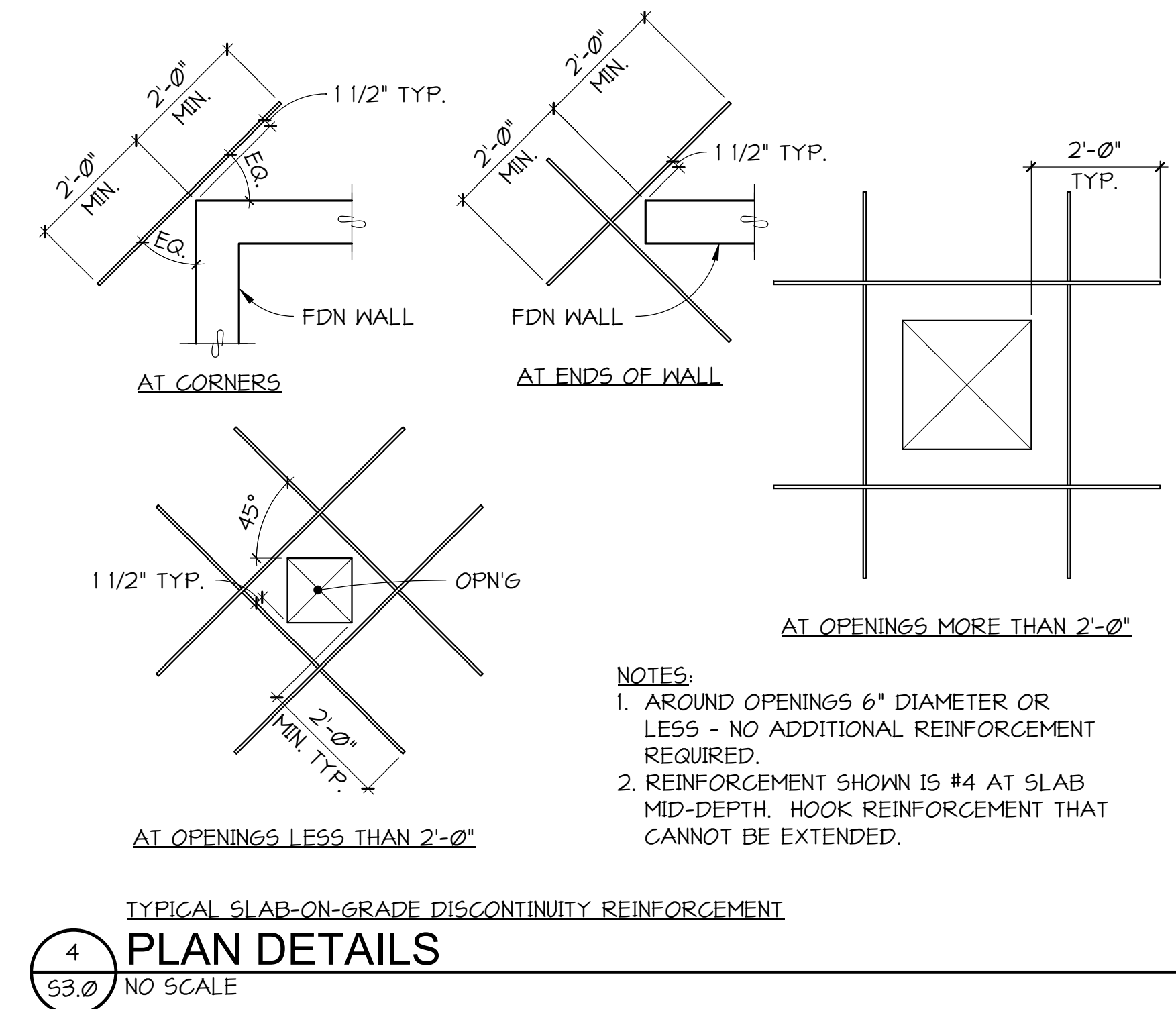
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CONTENTS:  
**TYPICAL CONCRETE  
 SLAB-ON-GRADE  
 DETAILS**

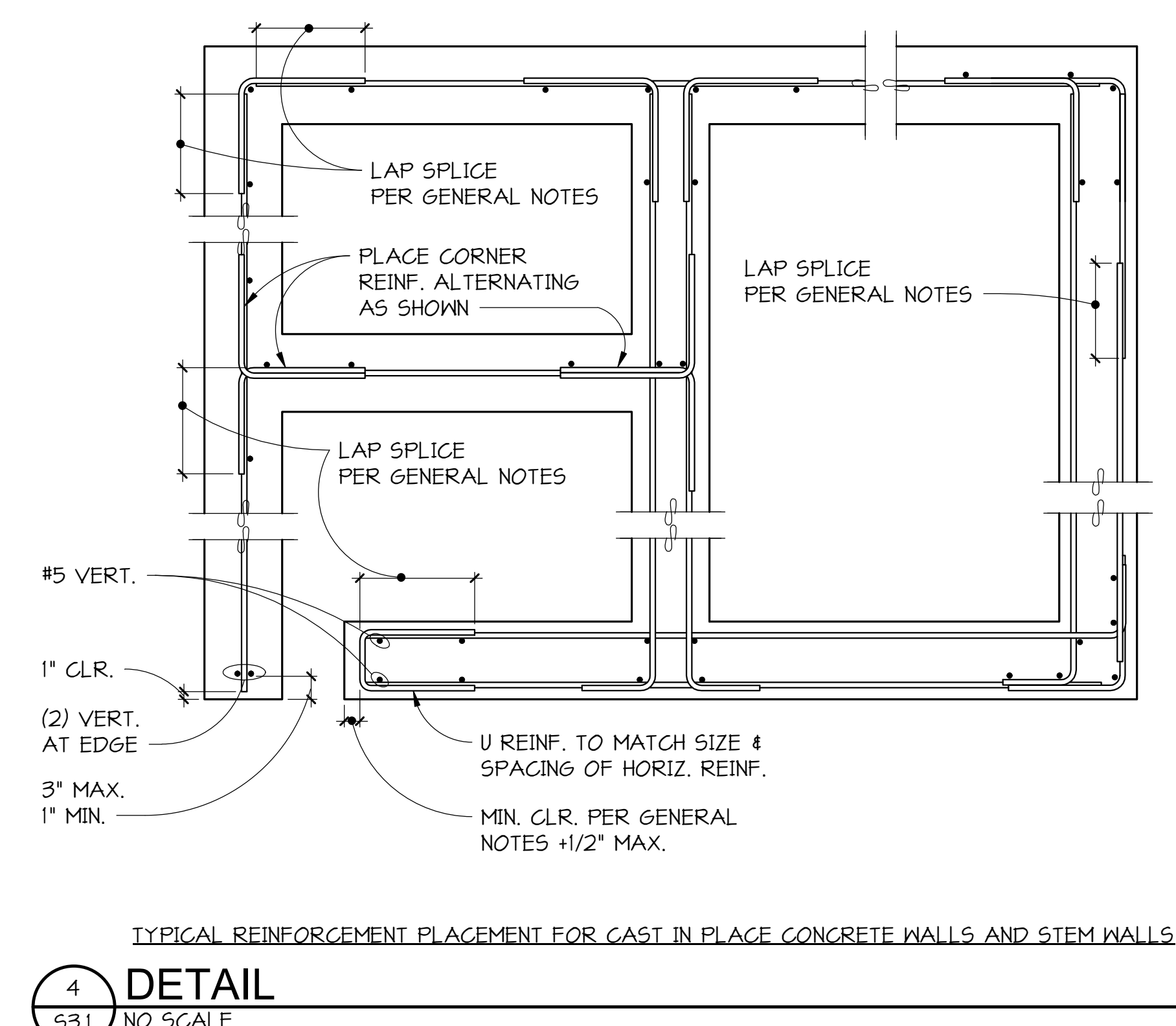
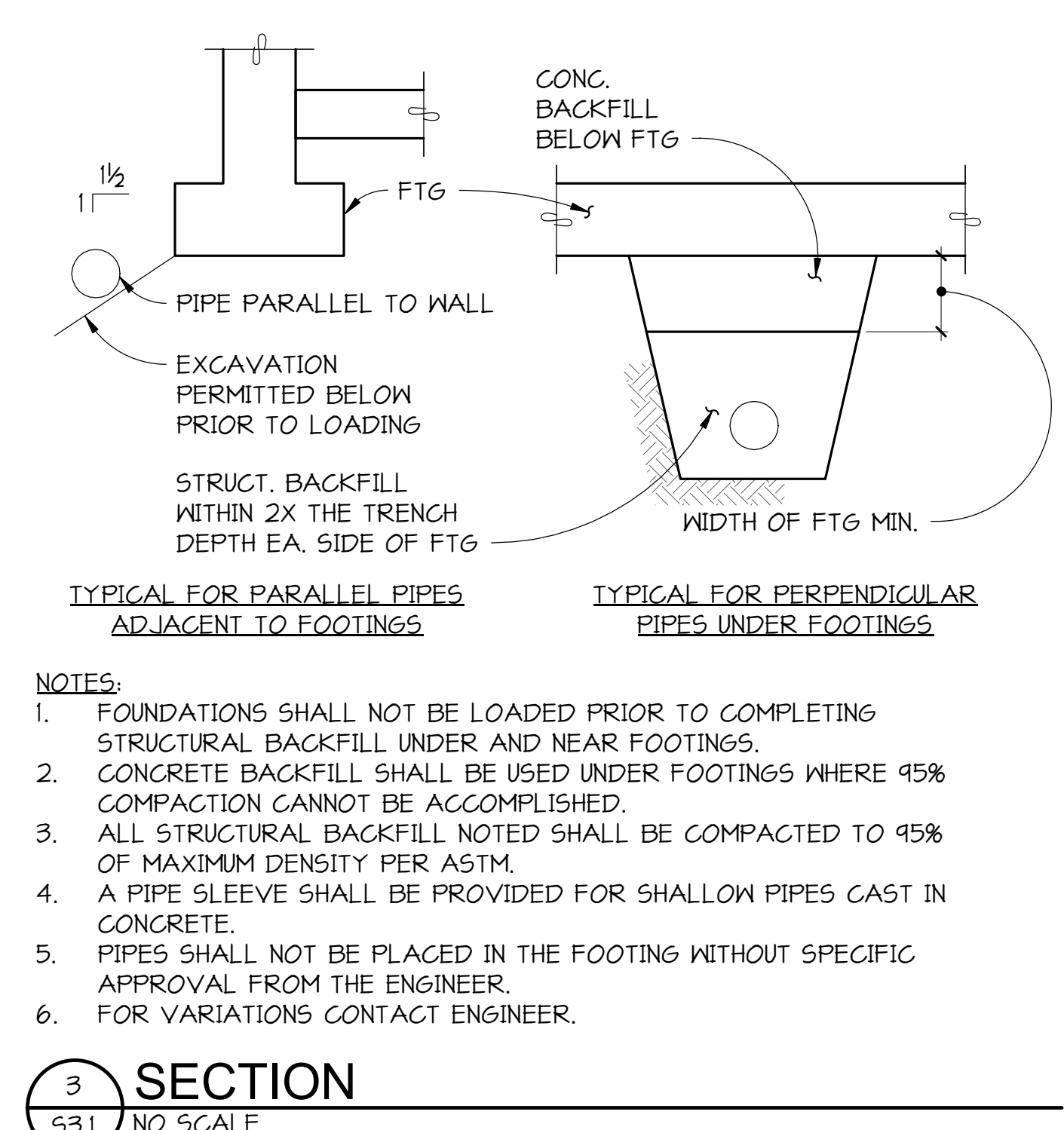
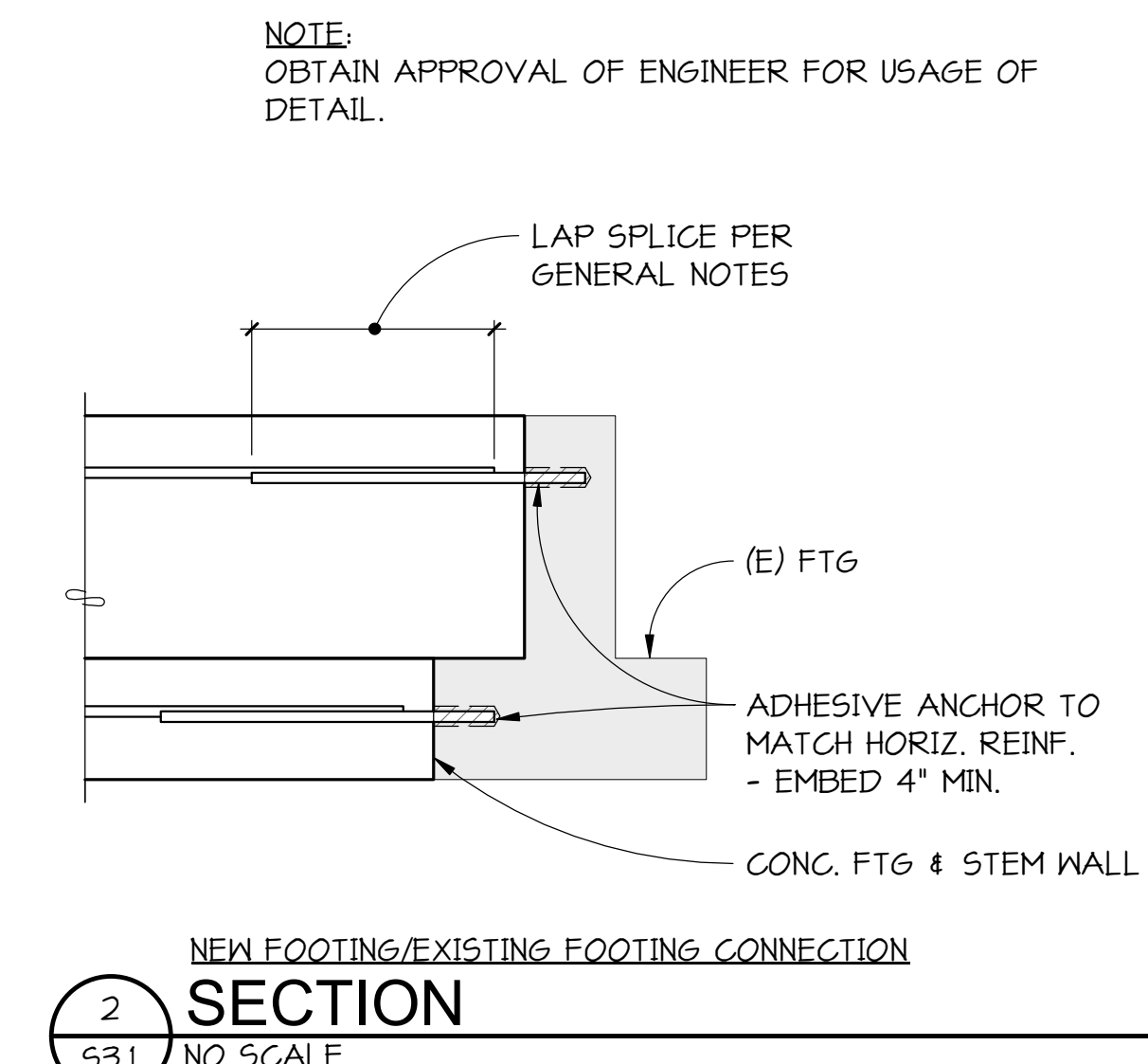
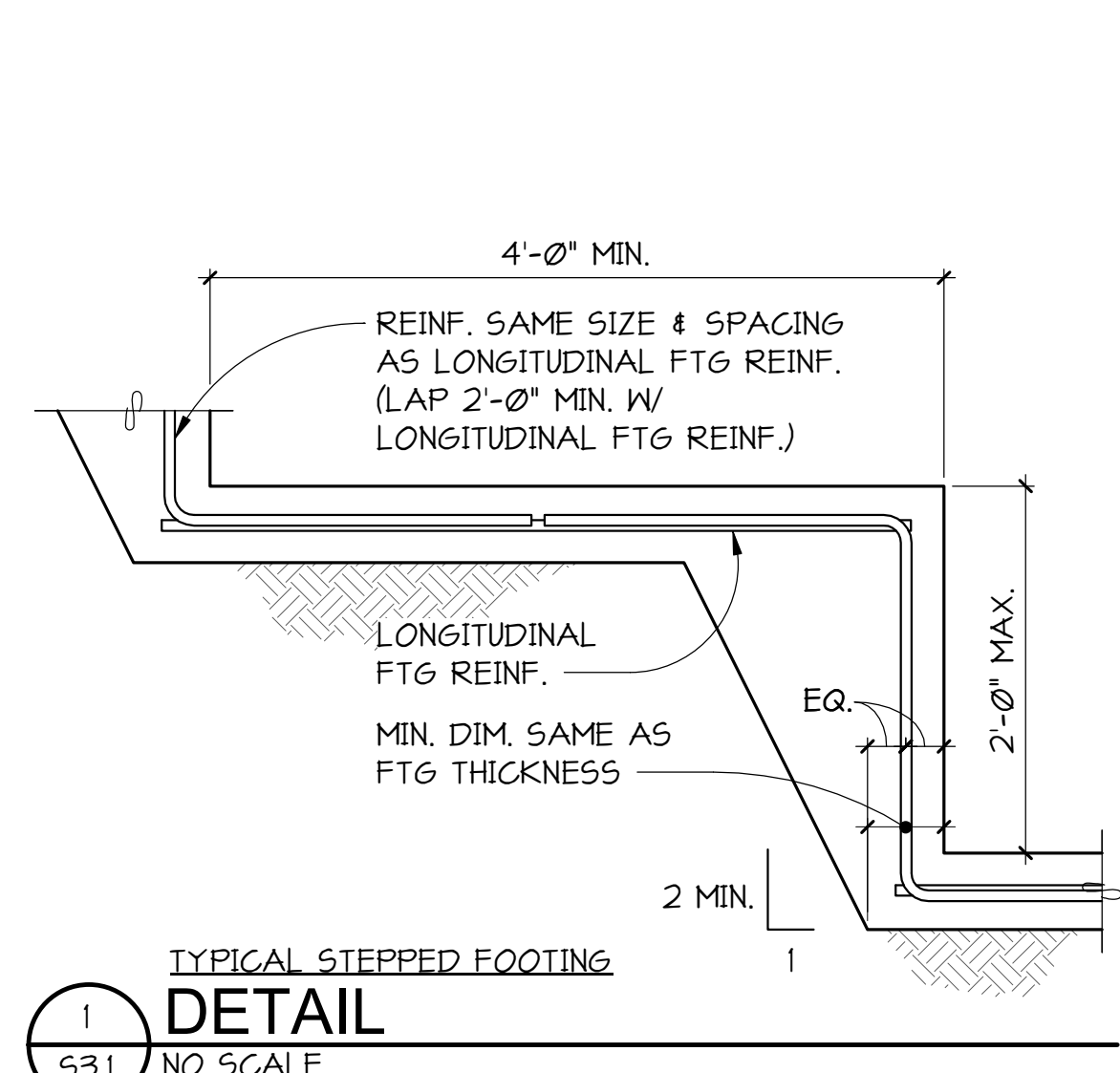
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SHEET:  
**S3.0**

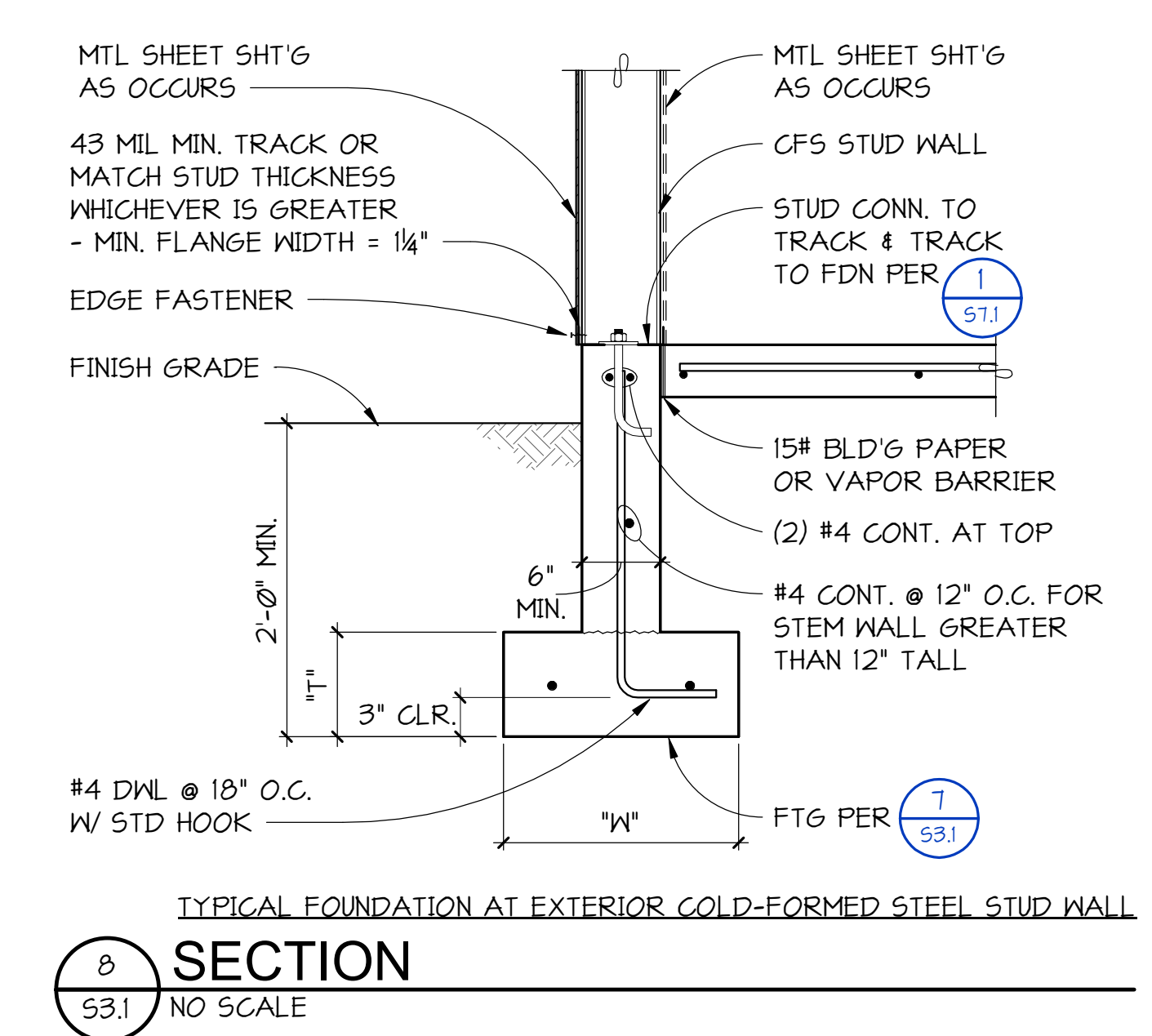
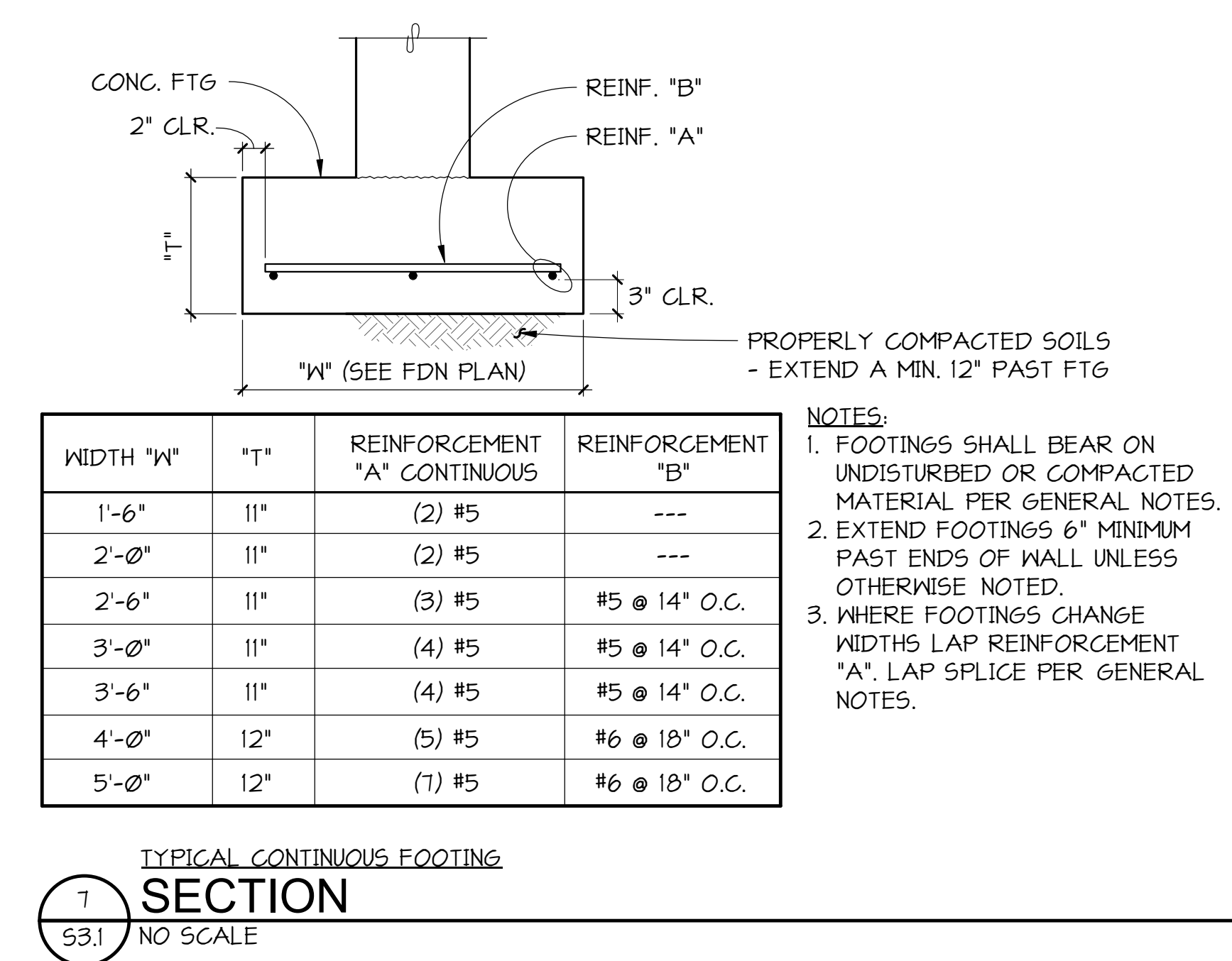
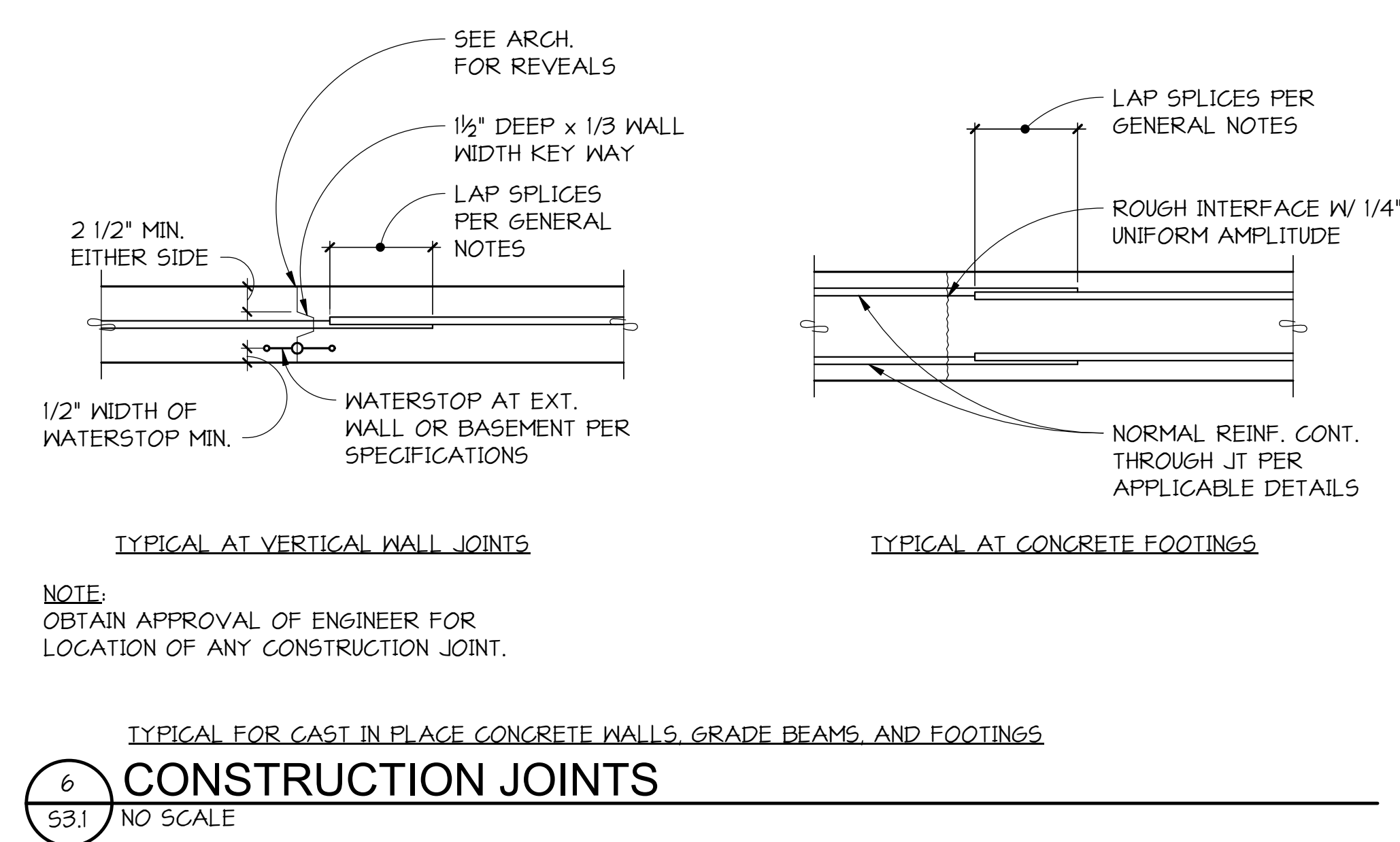
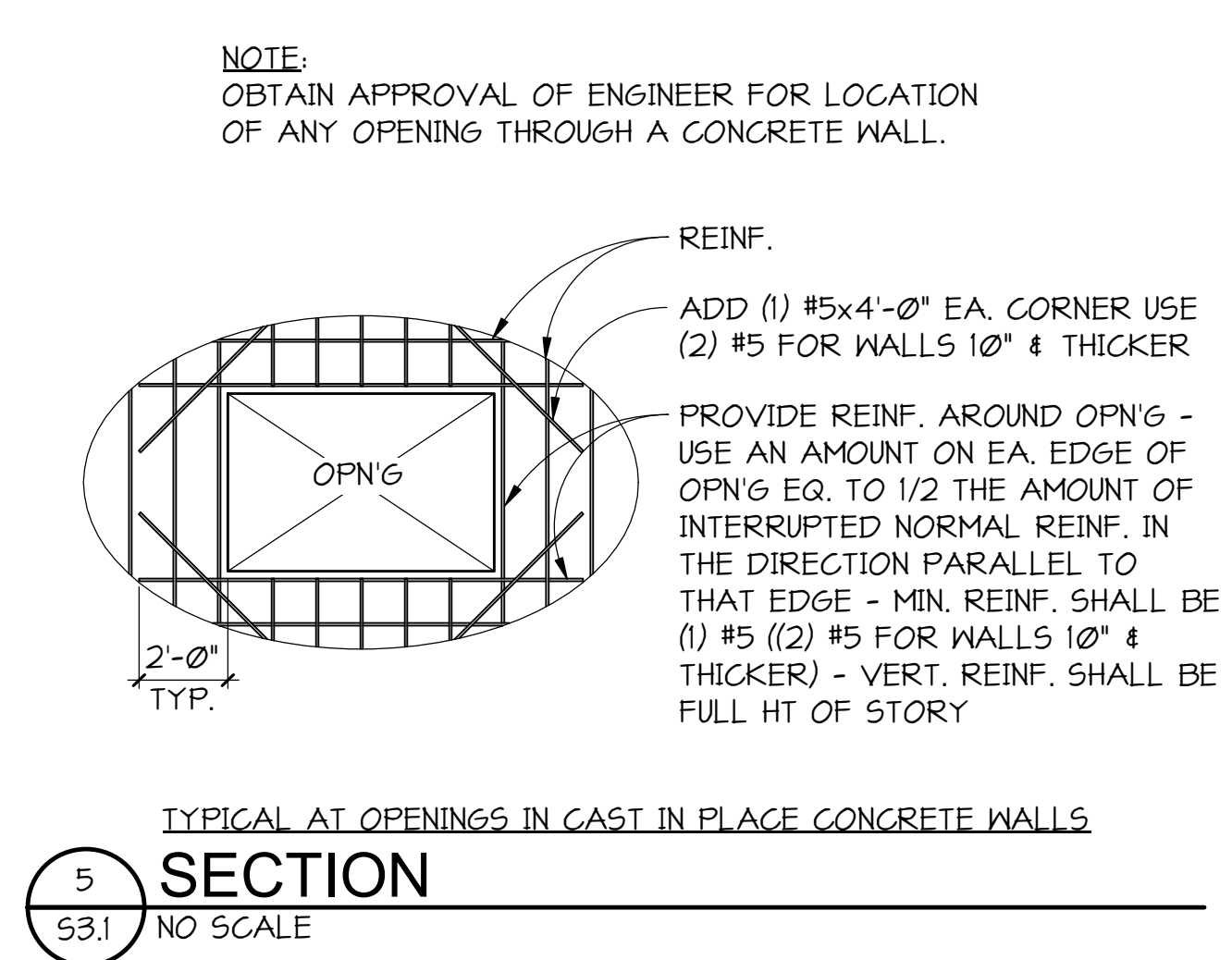


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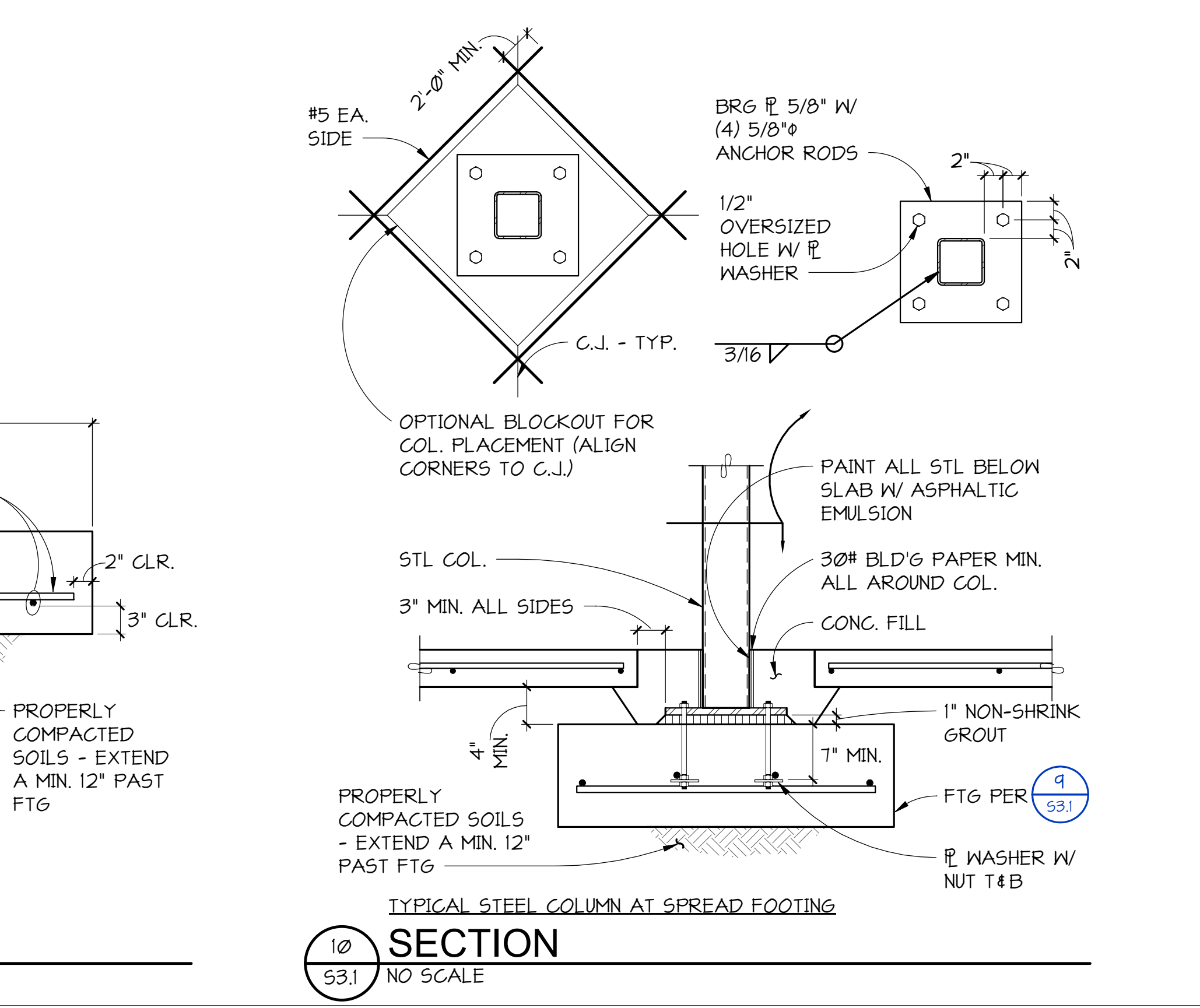
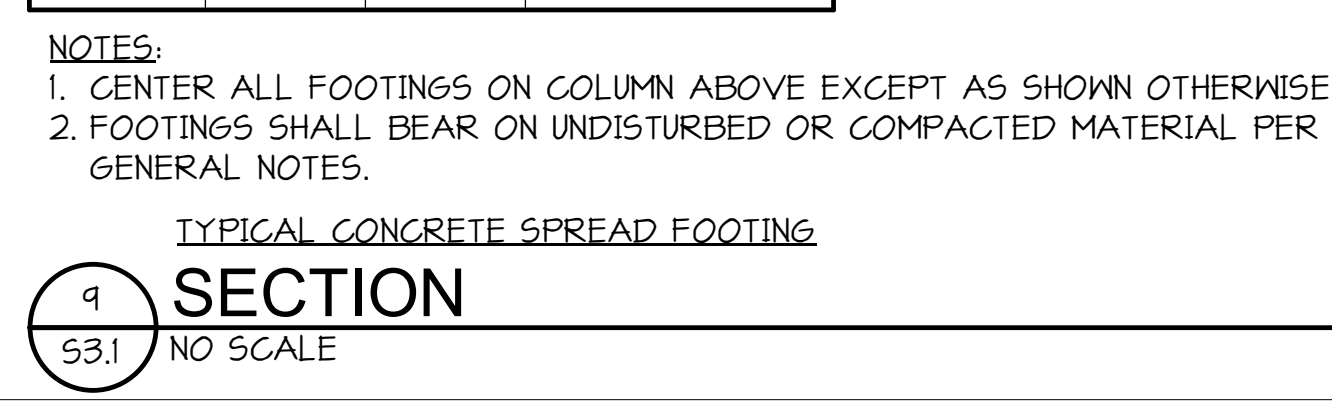




- NOTES:**
1. VERTICAL REINFORCEMENT SHOWN IS ADDITIONAL IF NORMAL STEM WALL REINFORCEMENT IS NOT IN PROPER LOCATION.
  2. CORNER REINFORCEMENT IS SAME SIZE AND SPACING AS HORIZONTAL REINFORCEMENT.
  3. STANDARD HOOK MAY BE SUBSTITUTED FOR CORNER REINFORCEMENT - SEE NOTE #5.
  4. REINFORCEMENT AT ALL CORNERS, ENDS, AND INTERSECTIONS OF WALLS SHALL BE PLACED IN ACCORDANCE WITH APPROPRIATE DETAIL SHOWN.
  5. USE STANDARD HOOK FOR EMBEDMENT LESS THAN 24" PAST FACE OF WALL.



MARK	DIMENSIONS		REINFORCEMENT EACH WAY
	"W"	"T"	
F3.0	3'-0"	11"	(4) #4
F3.5	3'-6"	11"	(5) #4
F4.0	4'-0"	11"	(5) #4
F4.5	4'-6"	11"	(4) #5
F5.0	5'-0"	12"	(5) #5
F5.5	5'-6"	12"	(5) #6
F6.0	6'-0"	14"	(6) #6
F7.0	7'-0"	16"	(7) #6
F8.0	8'-0"	16"	(8) #7
F9.0	9'-0"	18"	(8) #7



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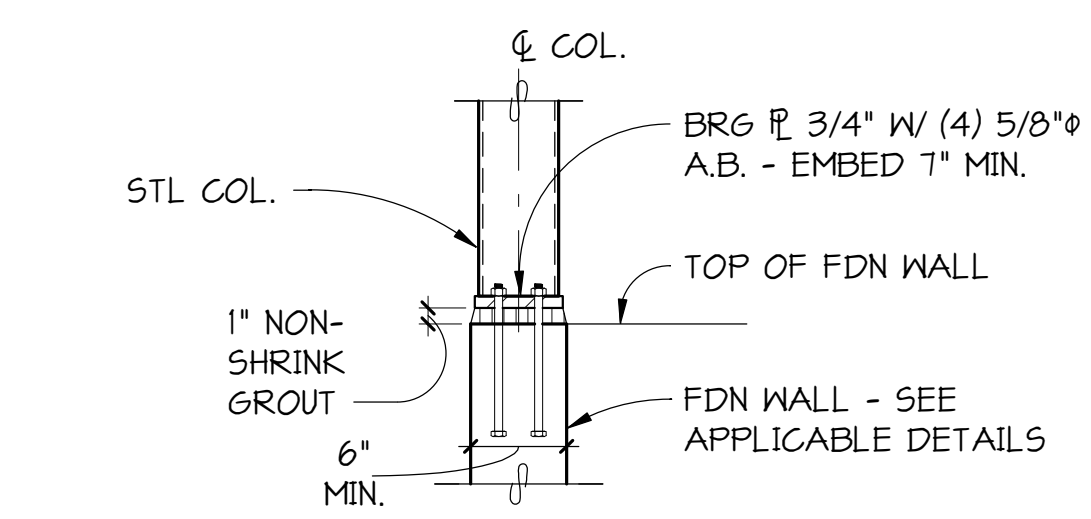
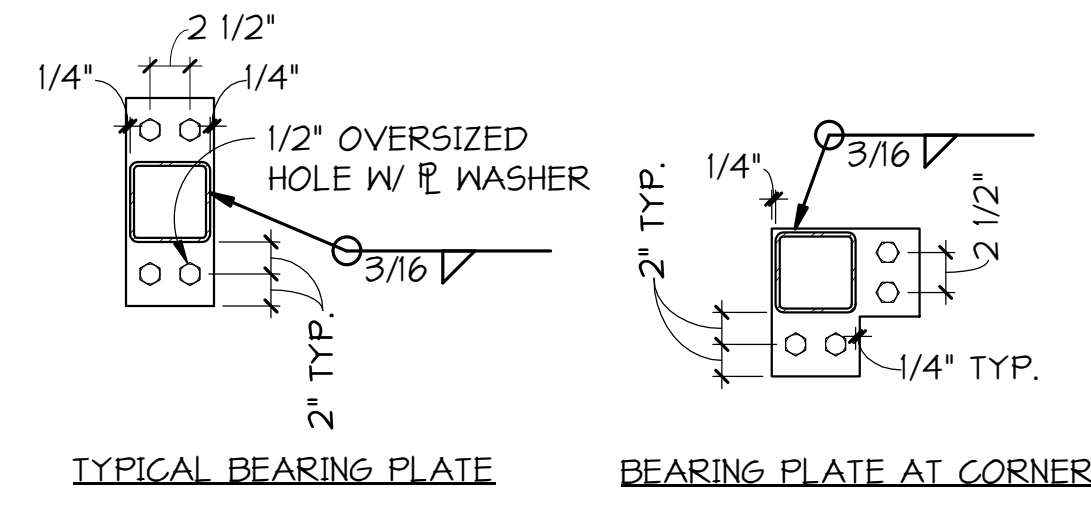
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CONTENTS:  
**TYPICAL FOUNDATION DETAILS**

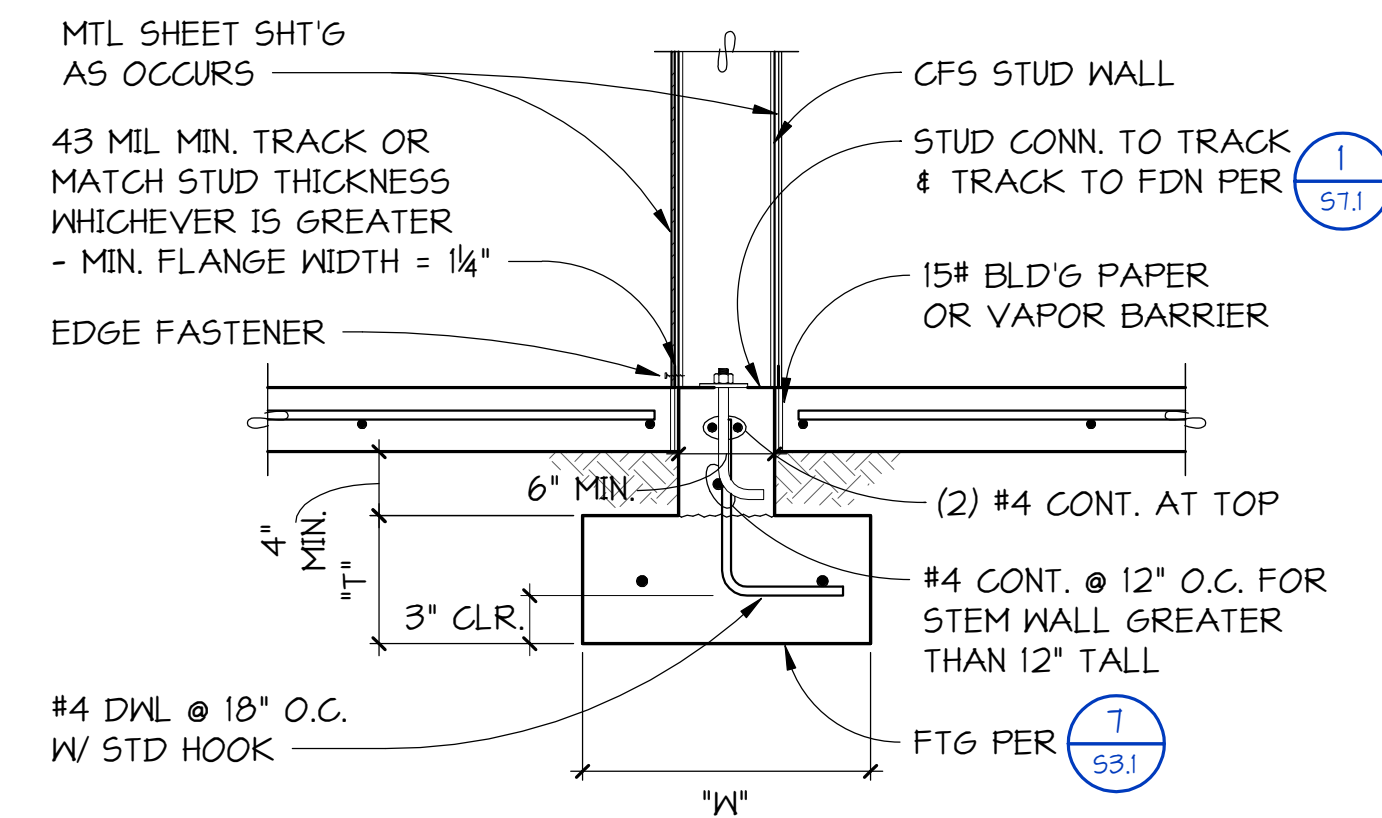
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SHEET:  
**S3.1**

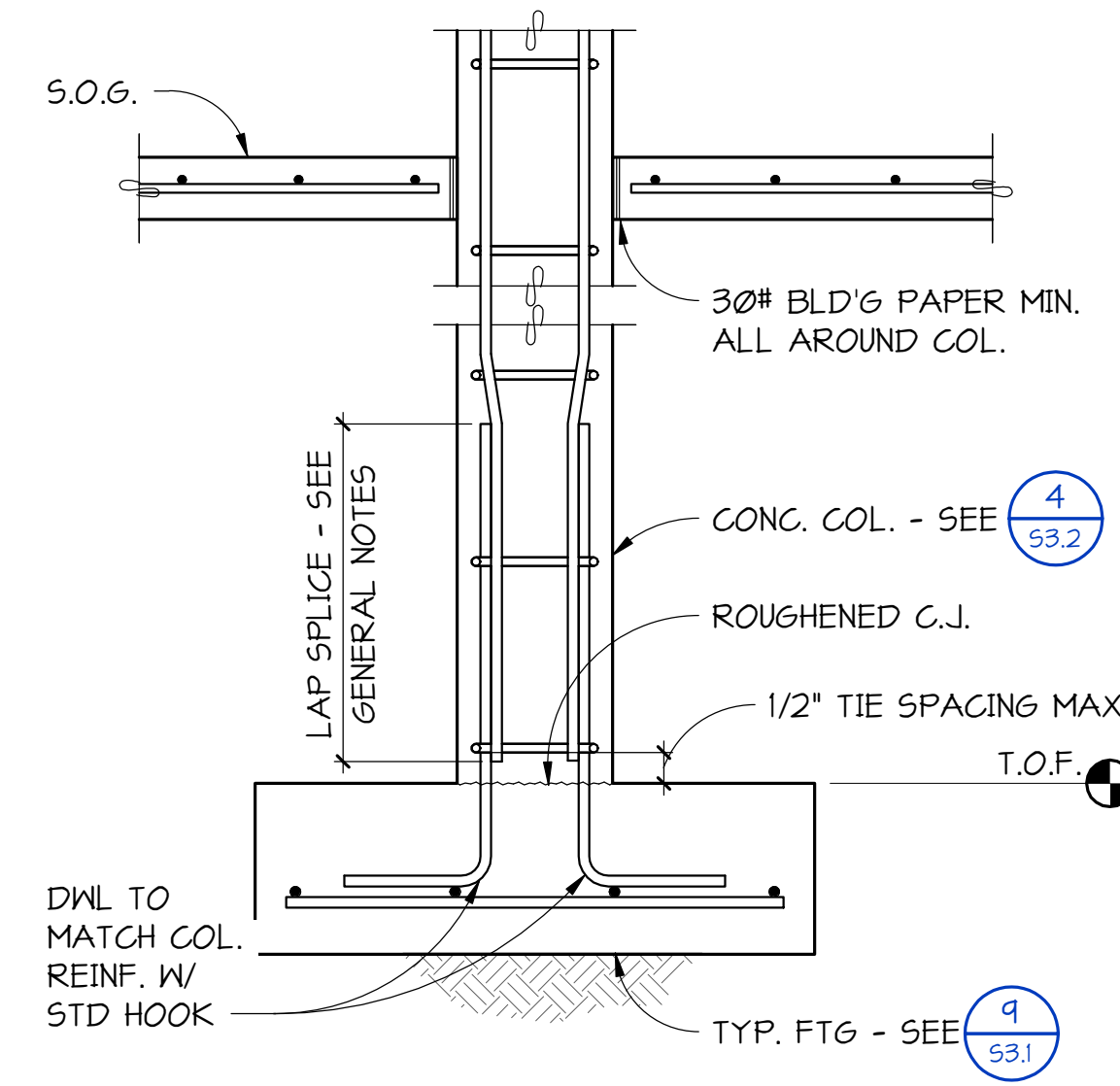




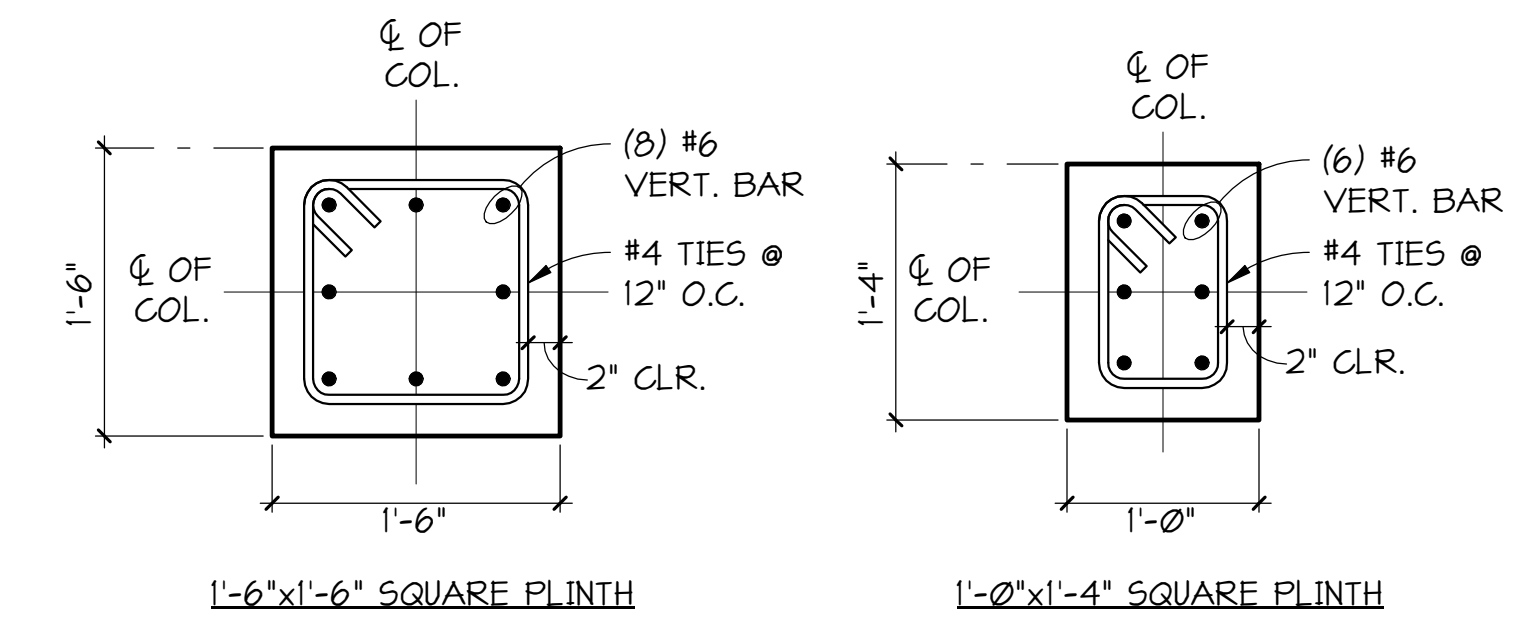
SECTION 1  
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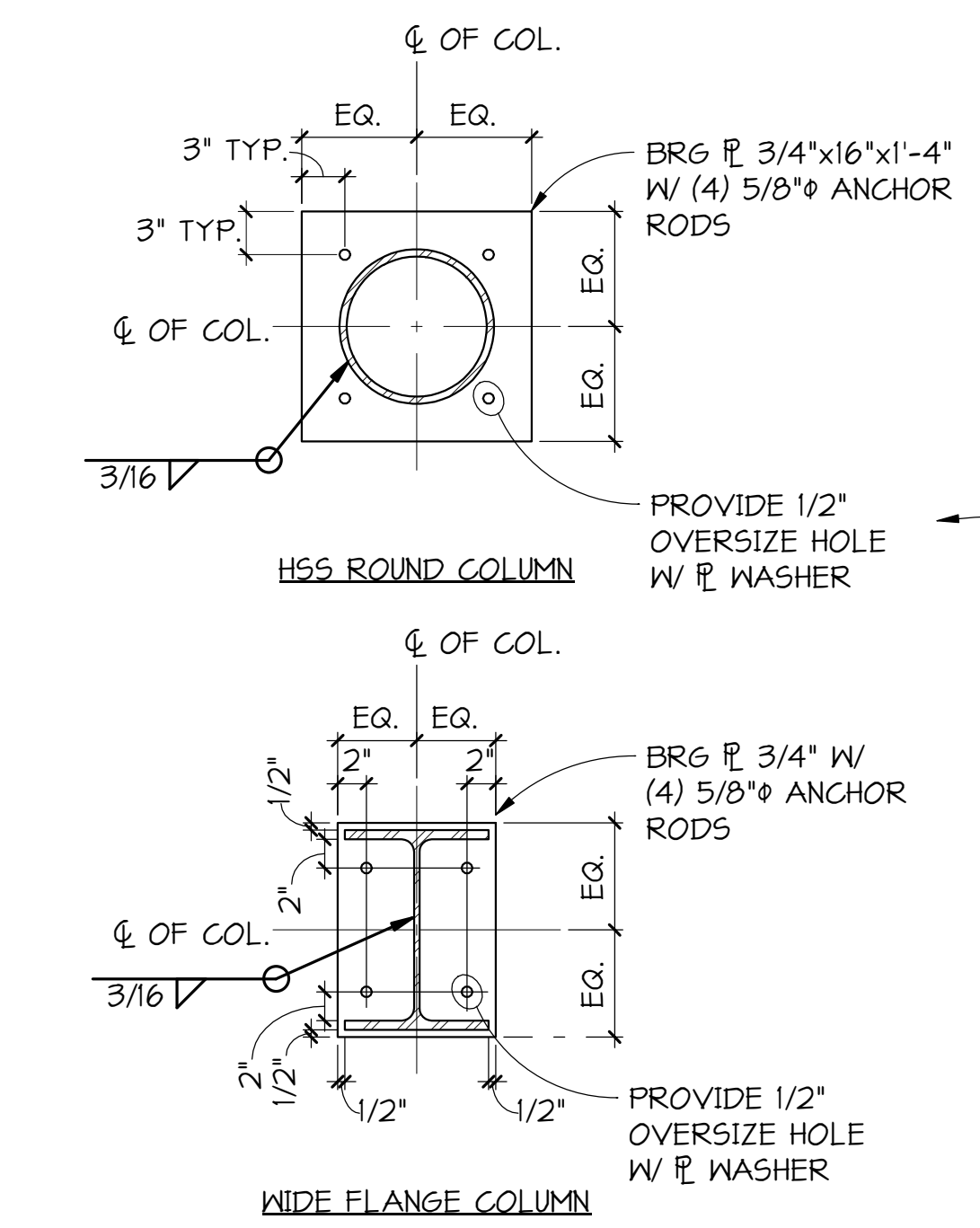
SECTION 2  
 53.2 1" = 1'-0"



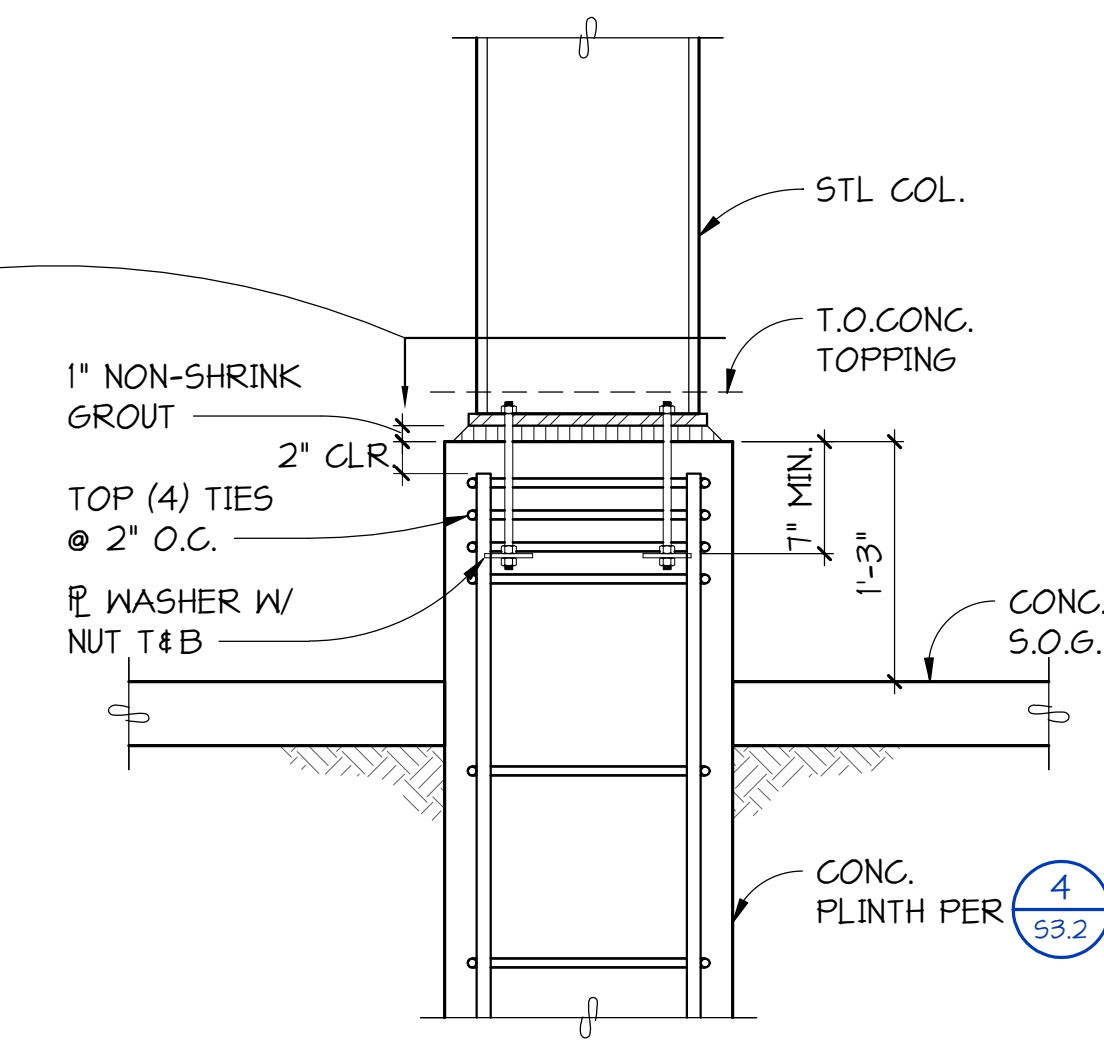
SECTION 3  
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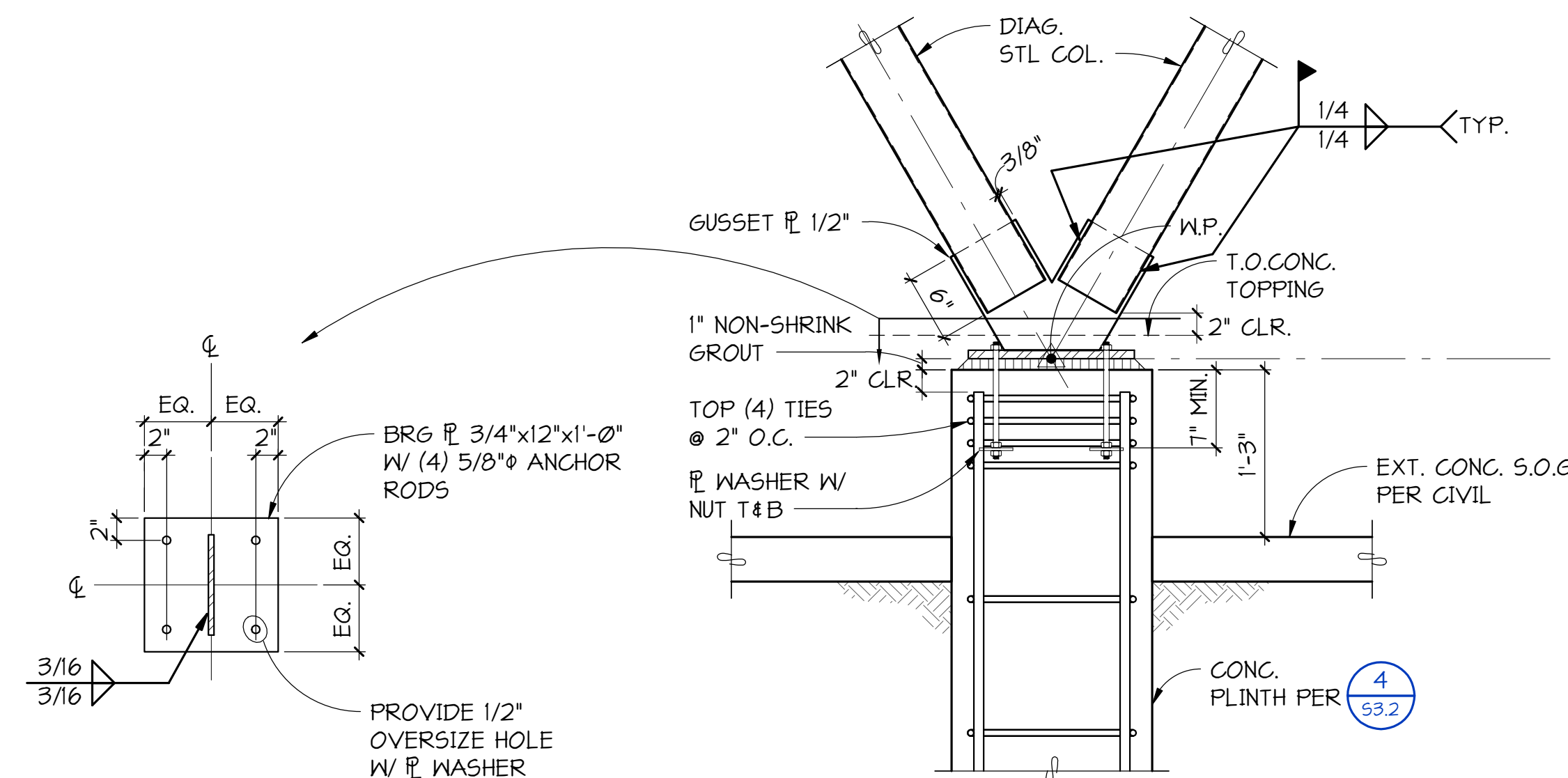
SECTION 4  
 53.2 1" = 1'-0"



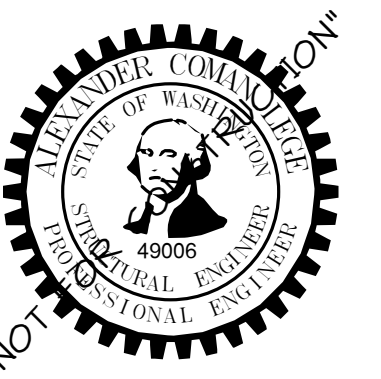
SECTION 5  
 53.2 1" = 1'-0"



SECTION 6  
 53.2 1" = 1'-0"



SECTION 6  
 53.2 1" = 1'-0"



100% DESIGN DEVELOPMENT

ISSUE DATE: DECEMBER 01, 2023

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**FOUNDATION DETAILS**

SCALE: 1" = 1'-0"  
 DRAWN: DEH  
 CHECKED: CAJ  
 PROJECT NO: 2022021.000

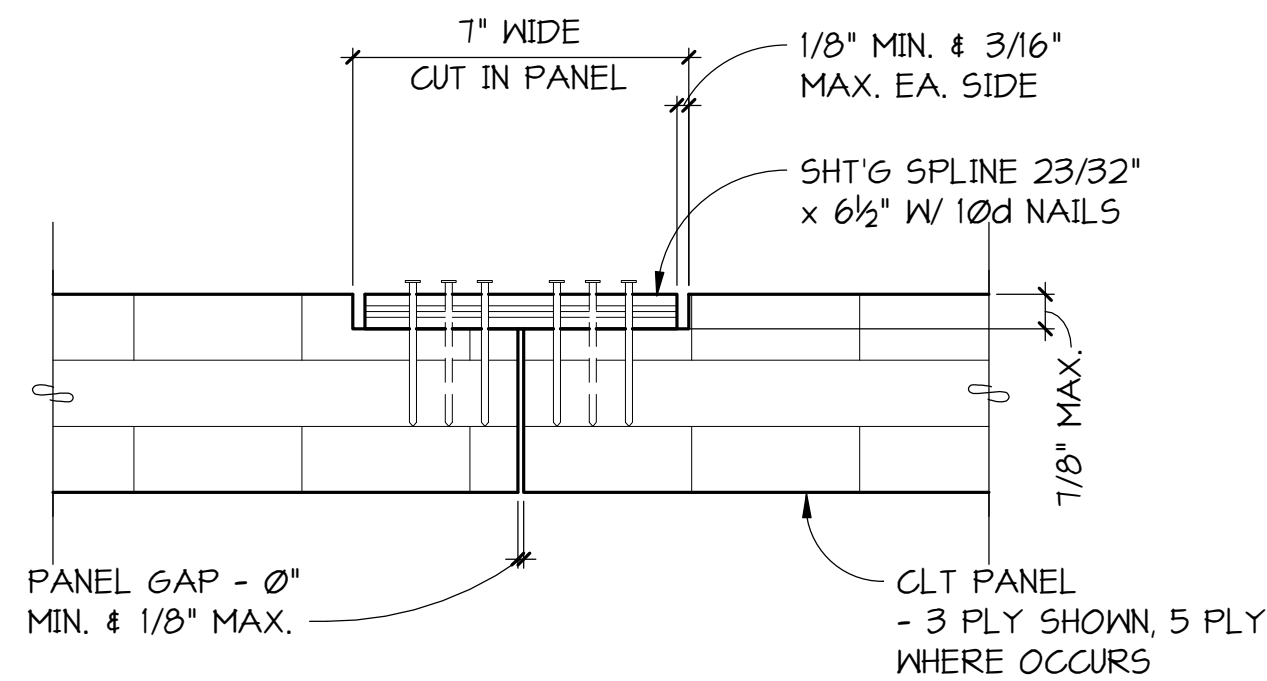
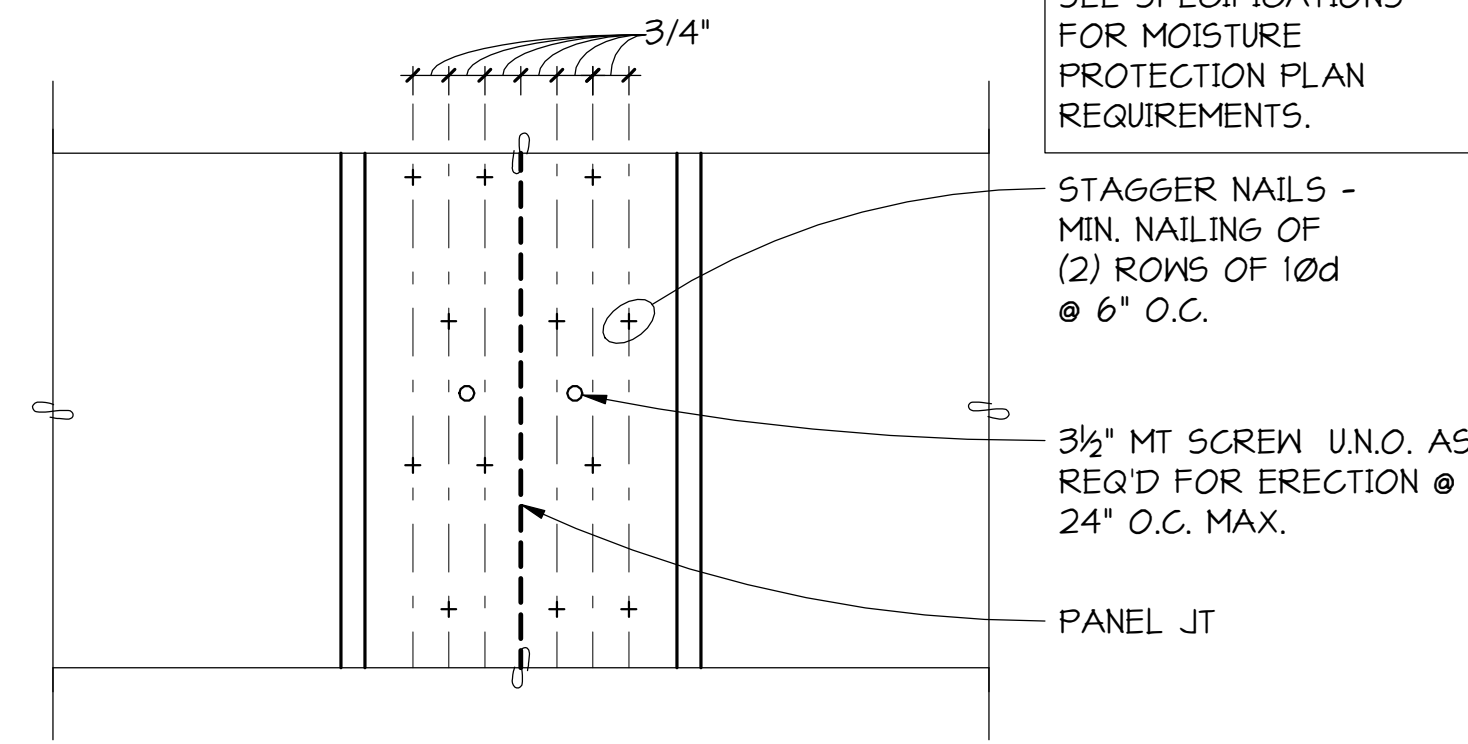
SHEET  
**S3.2**



AT CONTRACTOR'S OPTION - SUBSTITUTE SHT'G SPLINE AND NAILS WITH EQUIVALENT SIMPSON LD55 STRAP PLACED ON TOP OF THE CLT PANEL AND FASTENED AS SHOWN IN THE TABLE BELOW.

SHT'G SPLINE	EQUIV. STRAP SPLINE
23/32" SHT'G SPLICE W/ (2) ROWS OF 10d SCREWS @ 6" O.C.	SIMPSON LD55 STRAP W/ #4x3" NSV SCREWS @ 4" O.C.
23/32" SHT'G SPLICE W/ (2) ROWS OF 10d SCREWS @ 4" O.C.	SIMPSON LD55 STRAP W/ #4x3" NSV SCREWS @ 2" O.C.
23/32" SHT'G SPLICE W/ (2) ROWS OF 10d SCREWS @ 3" O.C.	SIMPSON LD55 STRAP W/ #4x3" NSV SCREWS @ 2" O.C.

CONTRACTOR NOTE: SEE SPECIFICATIONS FOR MOISTURE PROTECTION PLAN REQUIREMENTS.

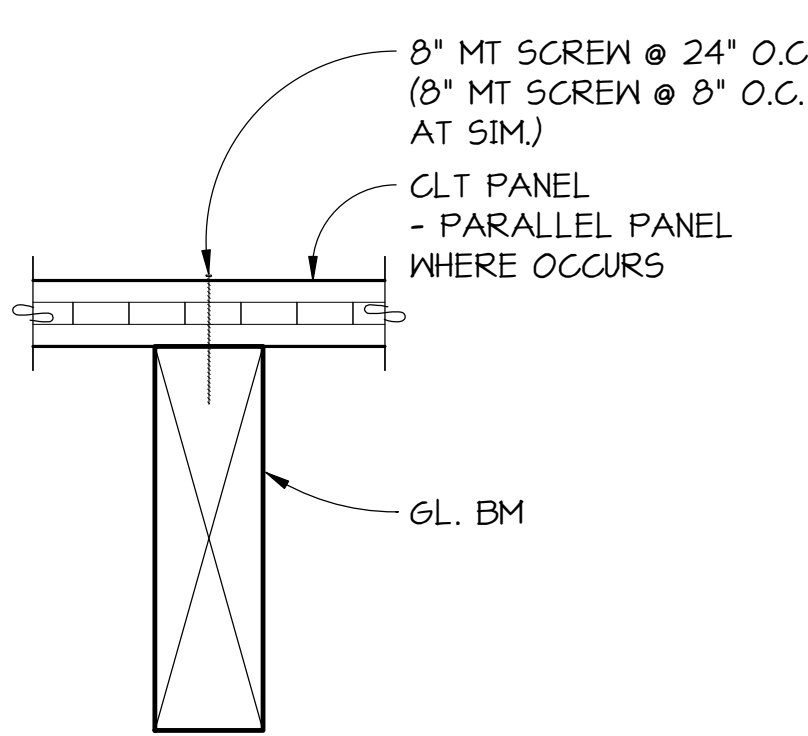


CROSS-LAMINATED TIMBER PANELS

**DETAIL**

3' = 1'-0"

NOTE: TYPICAL 3-PLY PANEL SHOWN, 5-PLY PANEL WHERE OCCURS

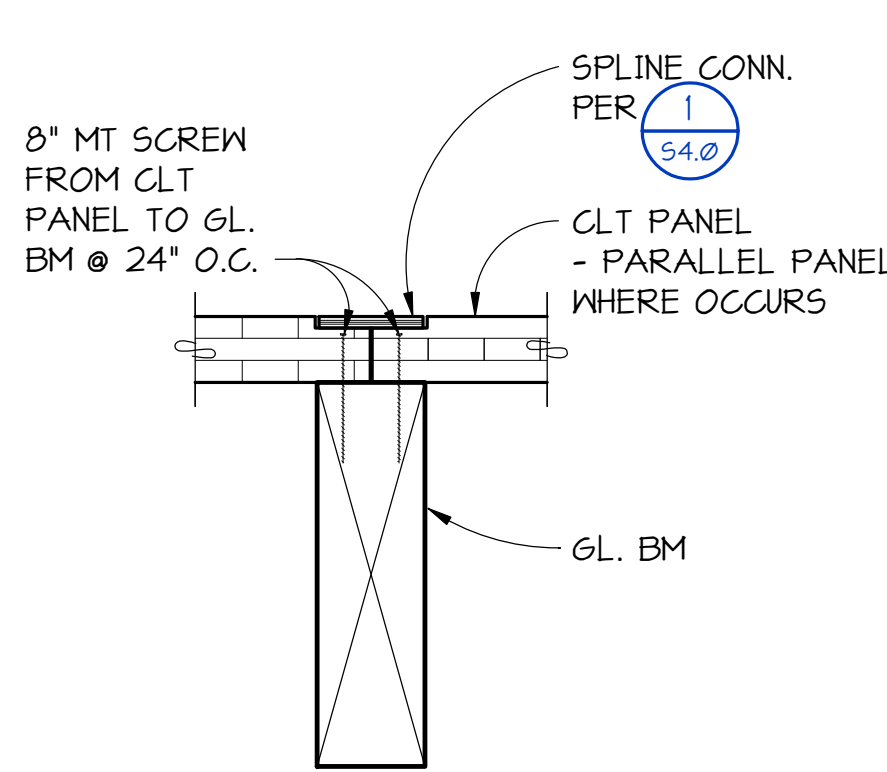


TYPICAL MASS TIMBER PANEL TO BEAM CONNECTION

**DETAIL**

1' = 1'-0"

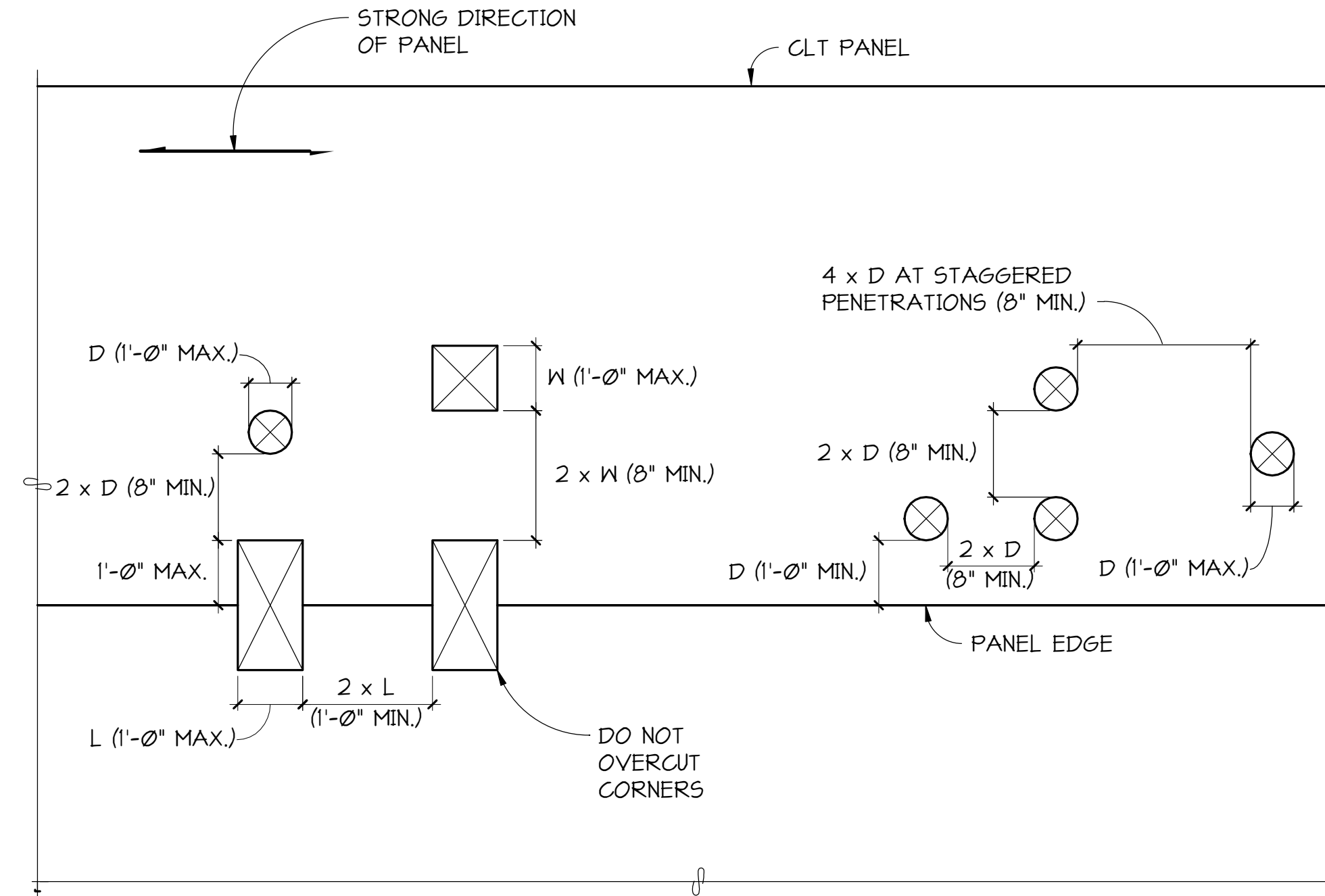
NOTE: TYPICAL 3-PLY PANEL SHOWN, 5-PLY PANEL WHERE OCCURS



TYPICAL MASS TIMBER PANEL SPLINE AT BEAM CONNECTION

**DETAIL**

1' = 1'-0"



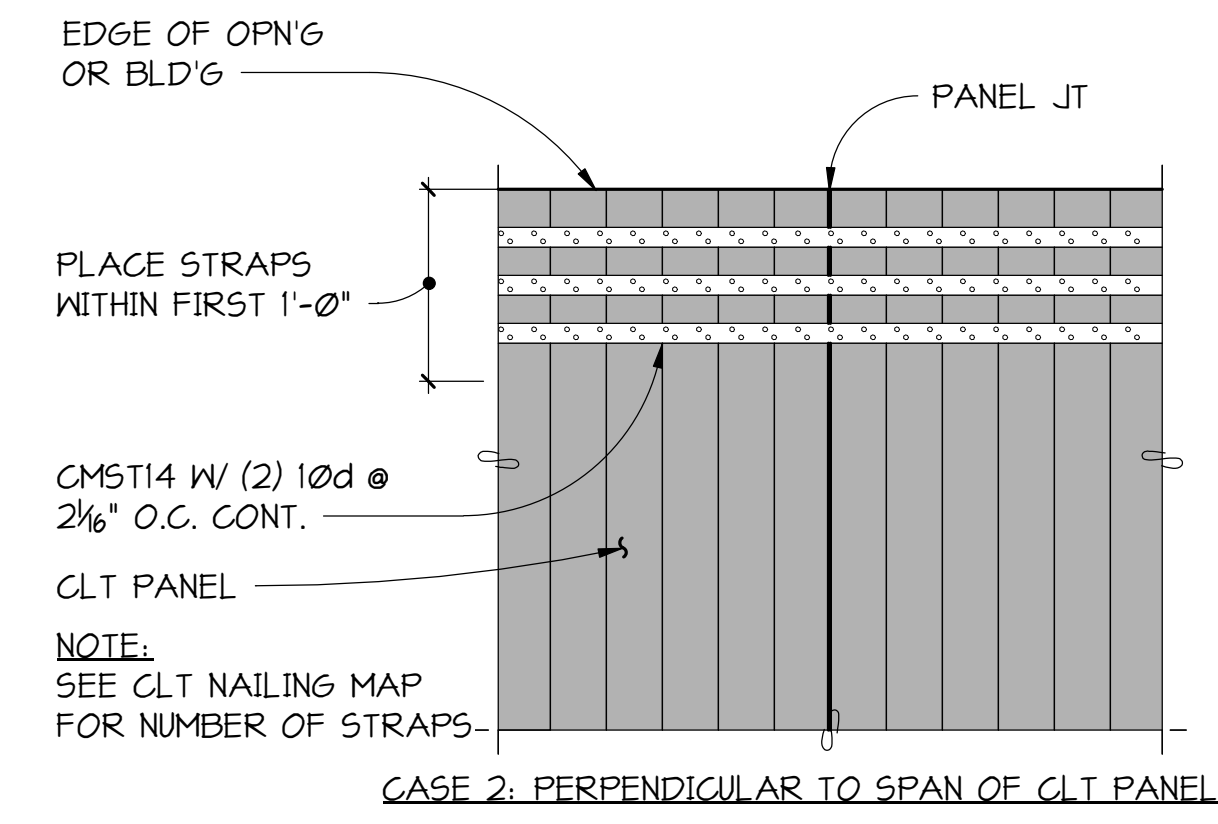
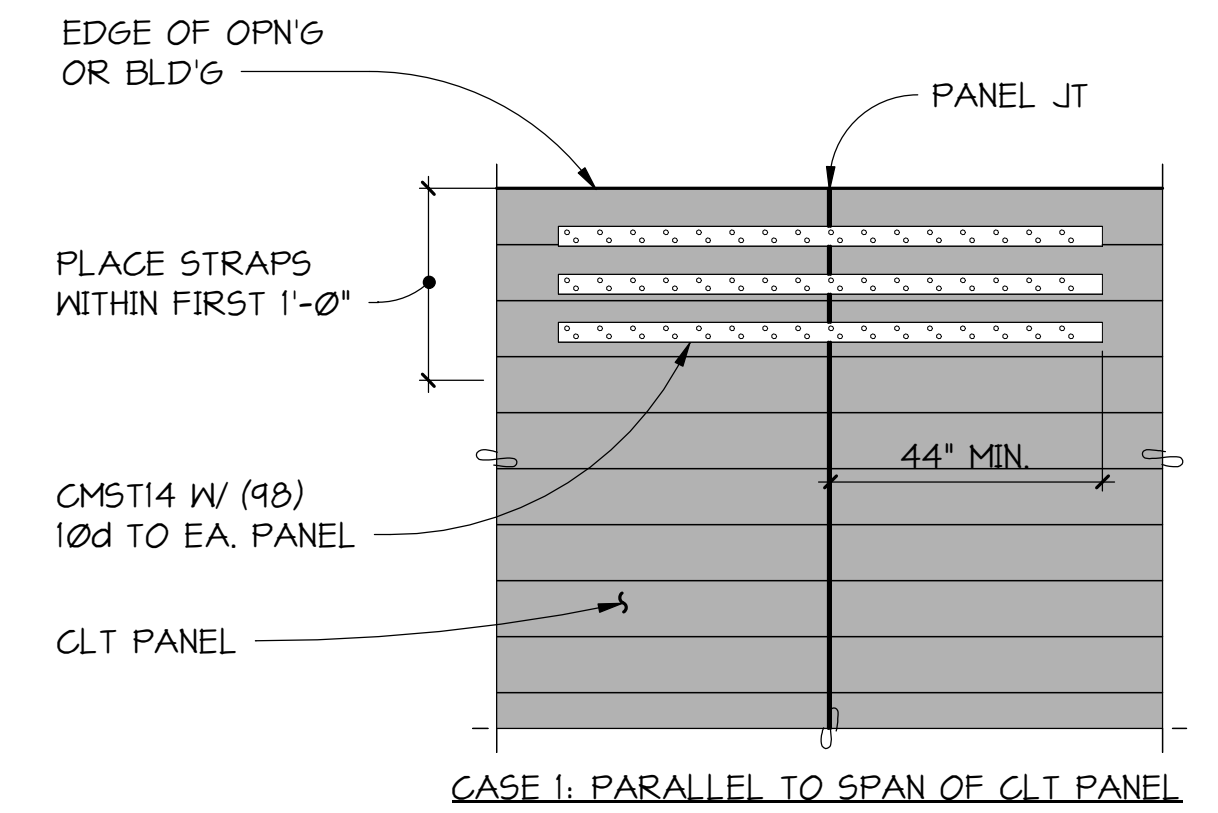
**PLAN DETAIL**

- NOTES:
- CONTRACTOR SHALL COORDINATE SIZES AND LOCATIONS OF ALL FLOOR PENETRATIONS AND SUBMIT PENETRATION WIDTHS LARGER THAN 4" OR NOT MEETING SPACING REQUIREMENTS TO ENGINEER FOR REVIEW.
  - WHERE ADJACENT PENETRATION SIZE VARIES THE LARGER SIZE SHALL BE USED WHEN DETERMINING CLEAR DISTANCE BETWEEN PENETRATIONS.
  - NOTIFY ENGINEER IF PENETRATIONS EXCEEDING 1'-0" WIDE ARE REQUIRED AND NOT SHOWN ON THE STRUCTURAL DRAWINGS.
  - DO NOT OVERCUT BEYOND REQUIRED OPENING SIZE WHEN INSTALLING PENETRATION IN PANEL.
  - THE MAXIMUM SUM OF PENETRATION WIDTHS IN ANY GIVEN SECTION SHALL BE LESS THAN 25% OF PANEL WIDTH.
  - ALLOWABLE PANEL PENETRATIONS ARE BASED ON A 8'-0" WIDE PANEL. SMALLER PANEL WIDTHS MAY REQUIRE ADDITIONAL FRAMING SUPPORT.

ALLOWABLE PENETRATIONS IN CROSS-LAMINATED TIMBER PANELS

**PLAN DETAIL**

1/2" = 1'-0"

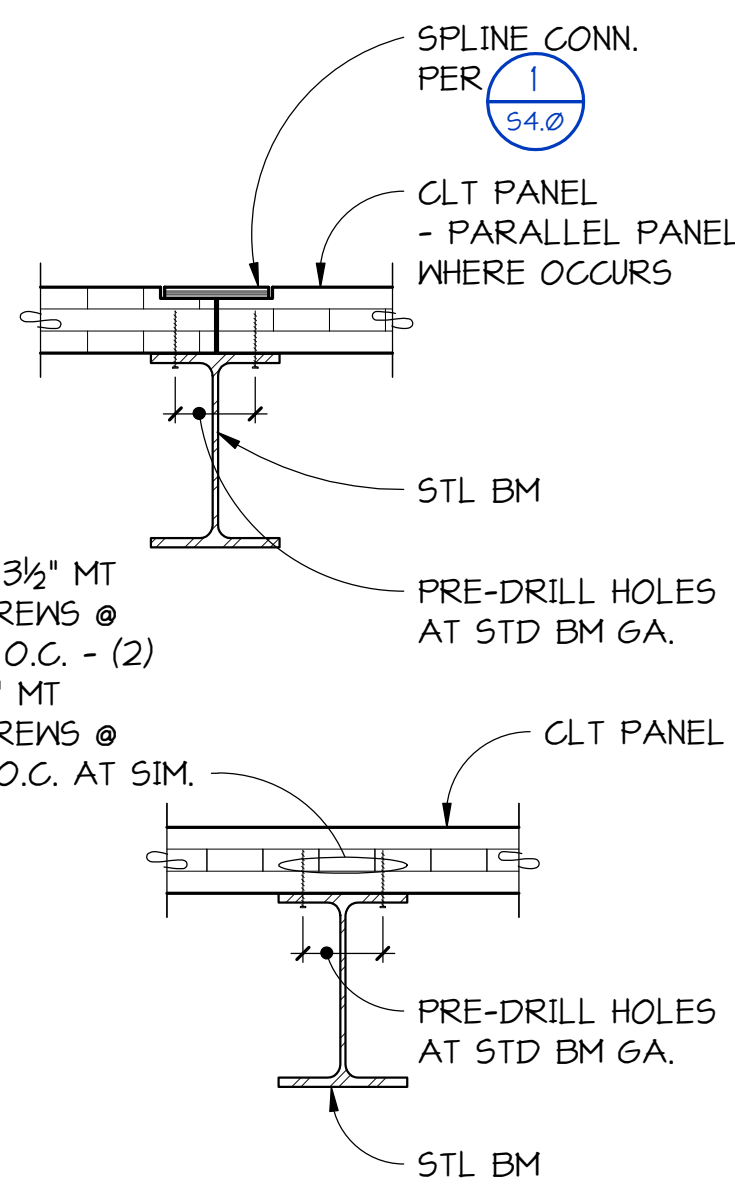


TYPICAL MASS TIMBER PANEL STRAPS

**PLAN DETAIL**

1' = 1'-0"

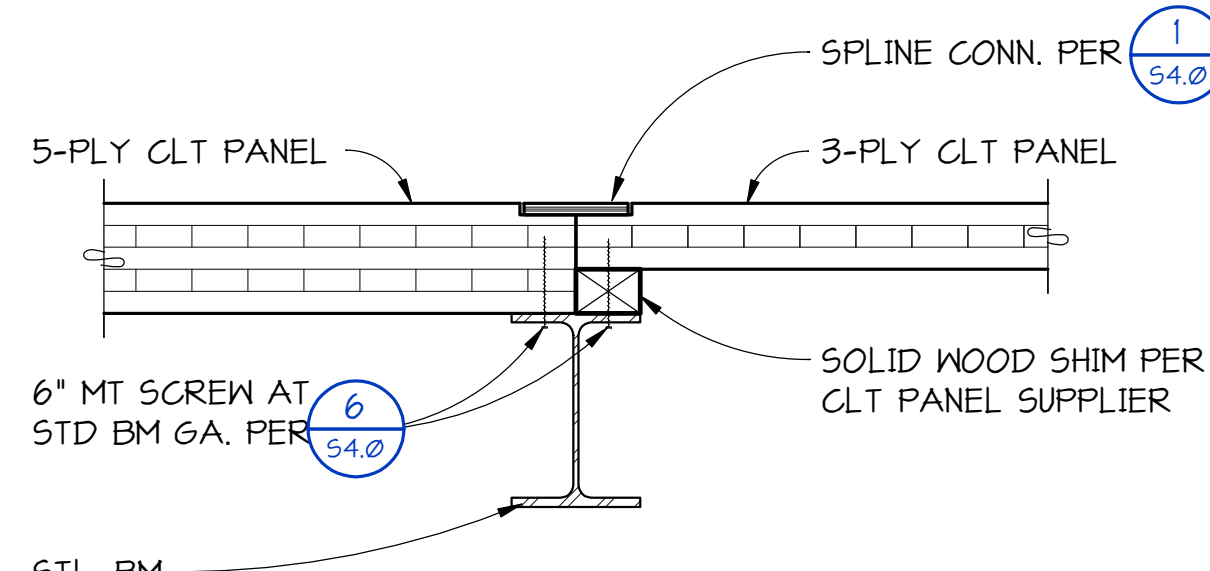
NOTE: TYPICAL 3-PLY PANEL SHOWN, 5-PLY PANEL WHERE OCCURS



TYPICAL MASS TIMBER PANEL TO STEEL BEAM CONNECTION

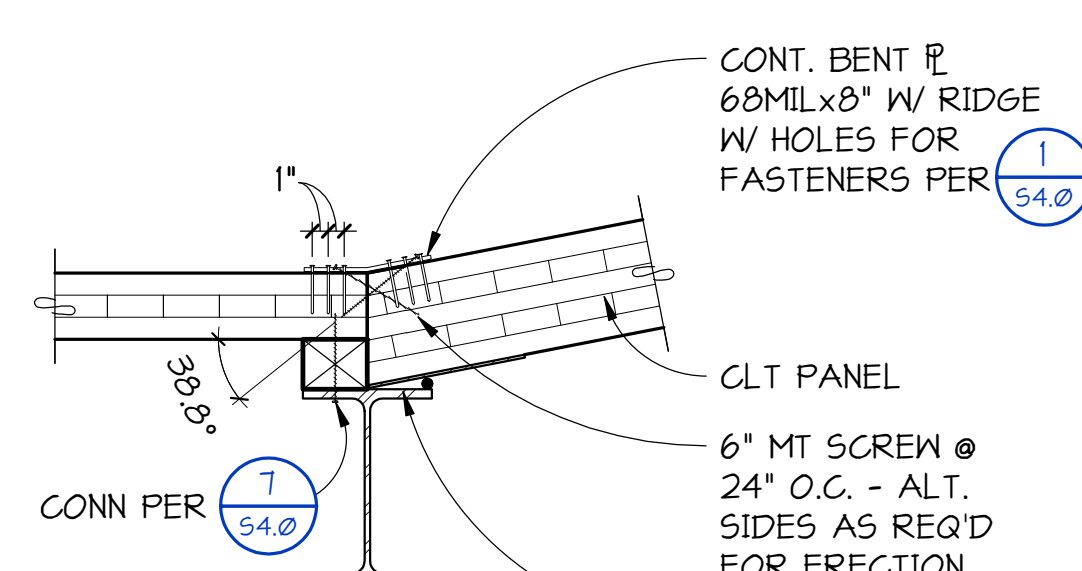
**DETAIL**

1' = 1'-0"



**SECTION**

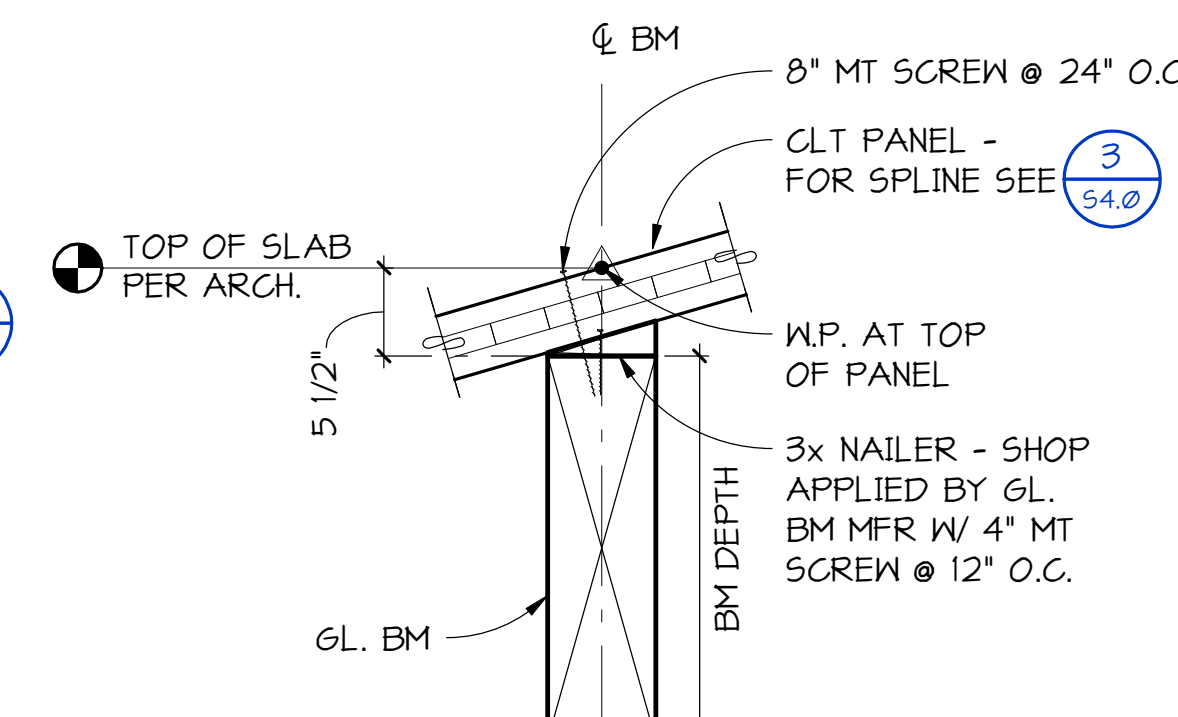
1' = 1'-0"



TYPICAL CROSS-LAMINATED TIMBER PANEL RIDGE

**SECTION**

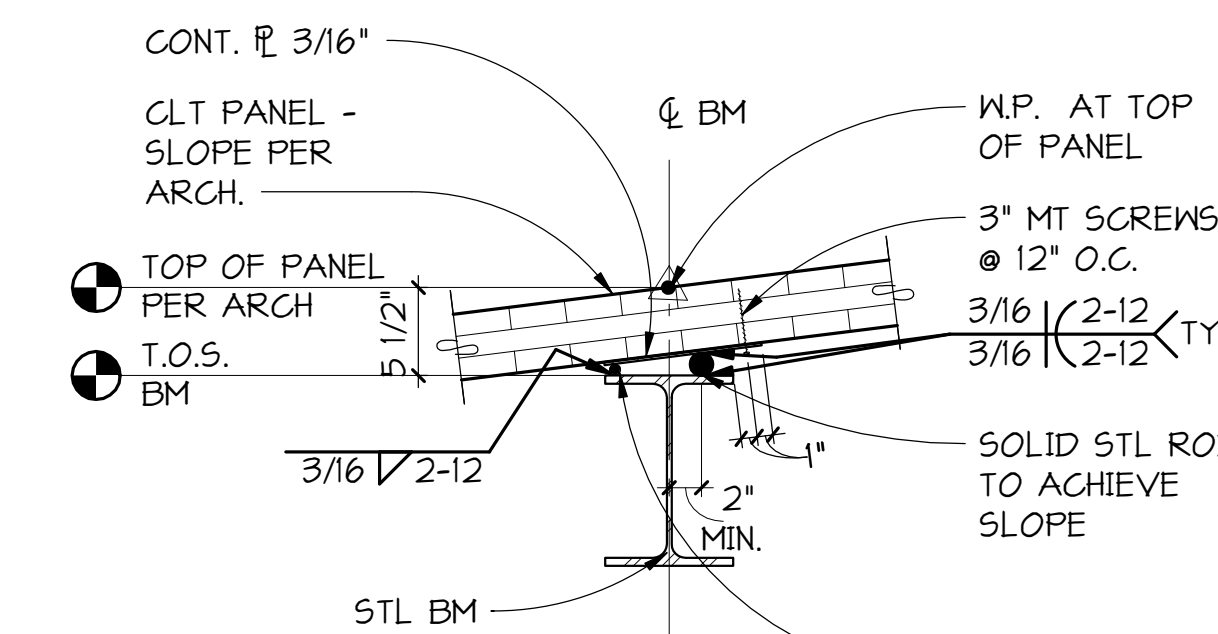
1' = 1'-0"



TYPICAL CROSS-LAMINATED TIMBER ROOF PANEL

**SECTION**

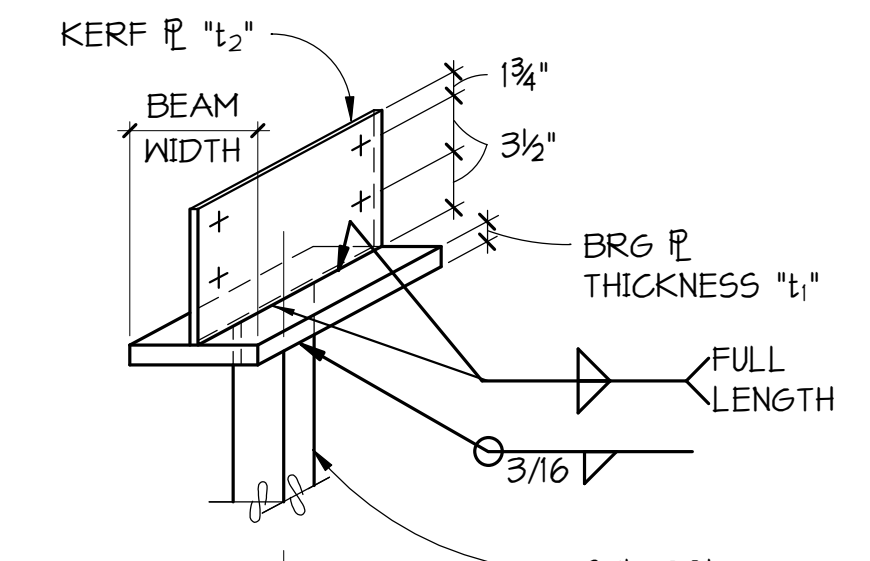
1' = 1'-0"



TYPICAL CROSS-LAMINATED TIMBER CONTINUOUS OVER STEEL BEAM

**SECTION**

1' = 1'-0"



GLULAM BEAM WIDTH	BEARING PLATE "t1"	KERF PLATE "t2"	WELD	MINIMUM M.B. SIZE
6 3/4"	3/4"	3/8"	1/4"	3/4"

TYPICAL GLULAM BEAM COLUMN KERF CONNECTION

**DETAIL**

NO SCALE





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PID 812720 MAXWELTON RD  
LANGLEY, WA 98260



**100% DESIGN DEVELOPMENT**

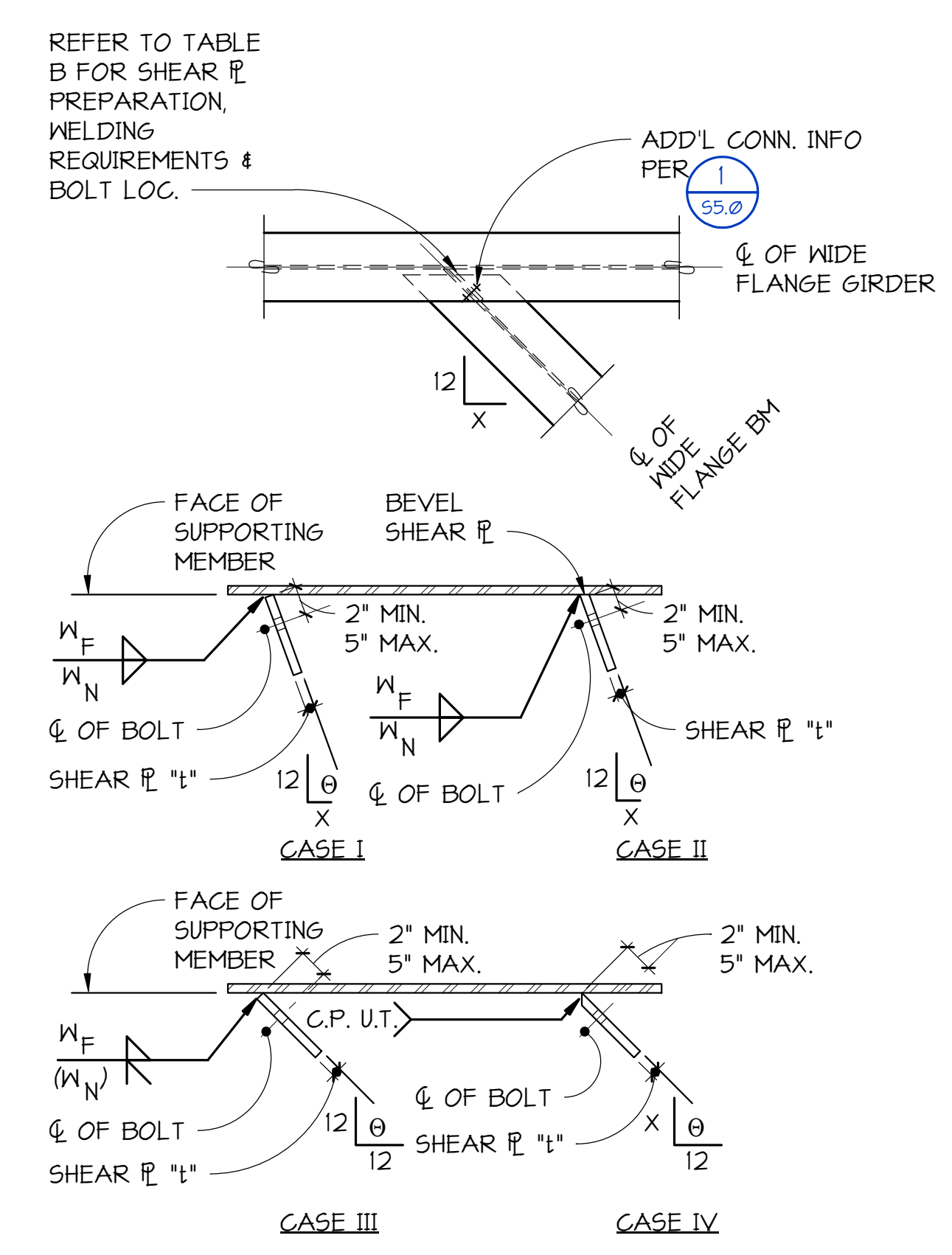
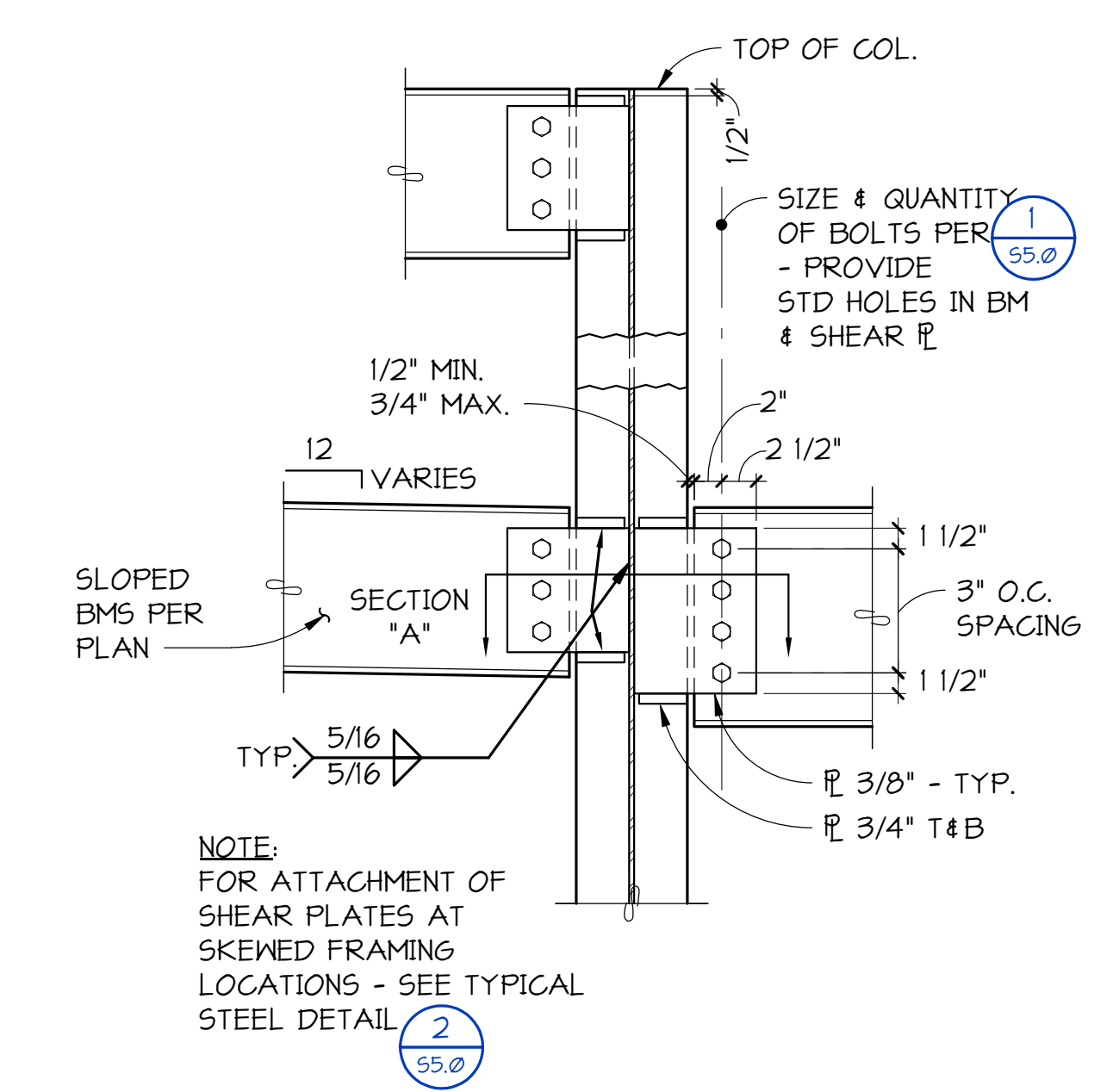
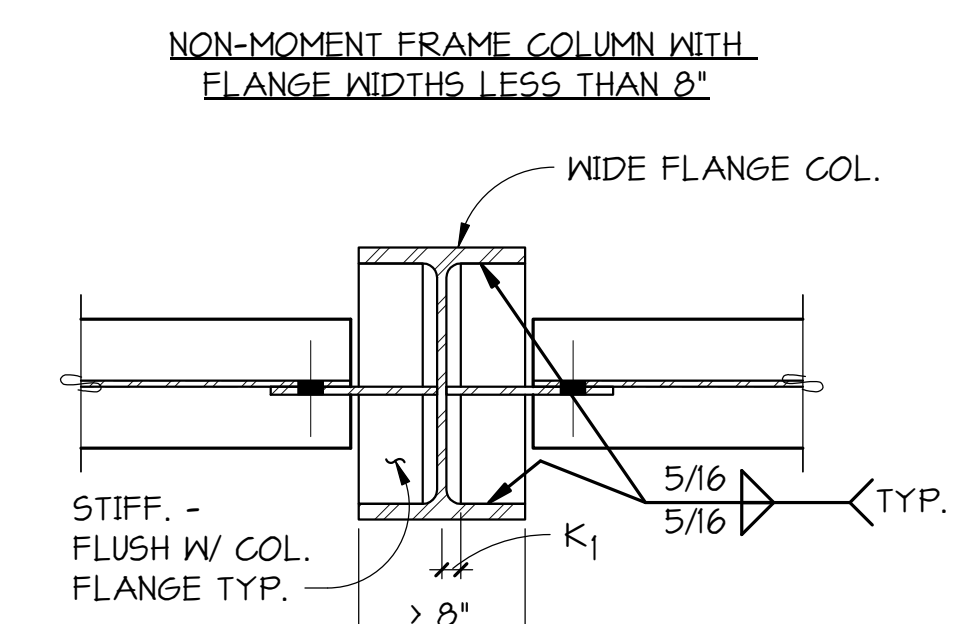
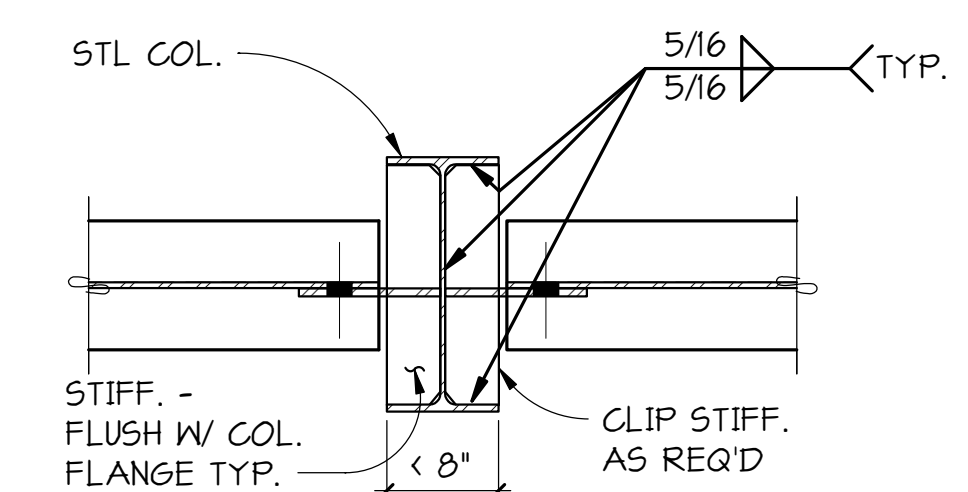
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**TYPICAL STEEL FRAMING DETAILS**

SCALE: 1" = 1'-0"  
DRAWN: SMS  
CHECKED: CAJ  
PROJECT NO: 2022021.000

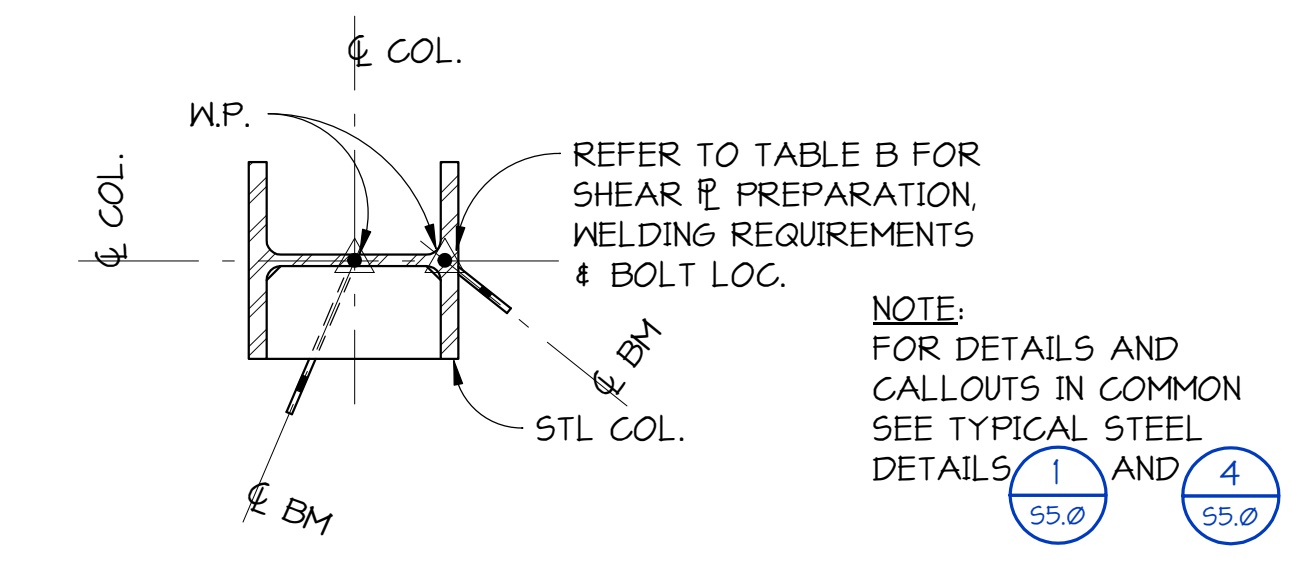
SHEET: **S5.0**



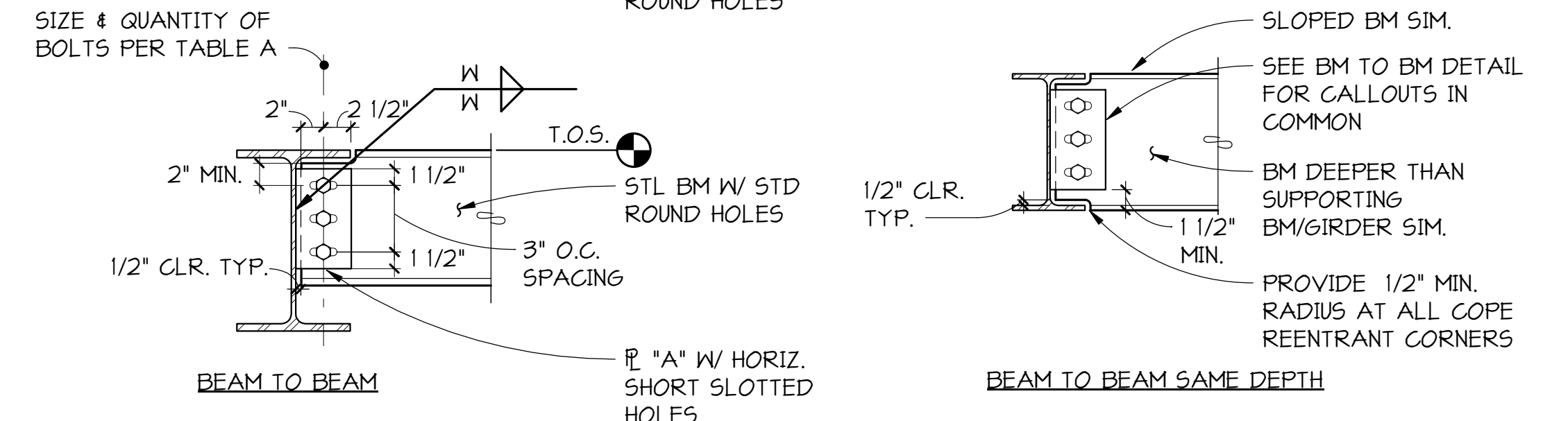
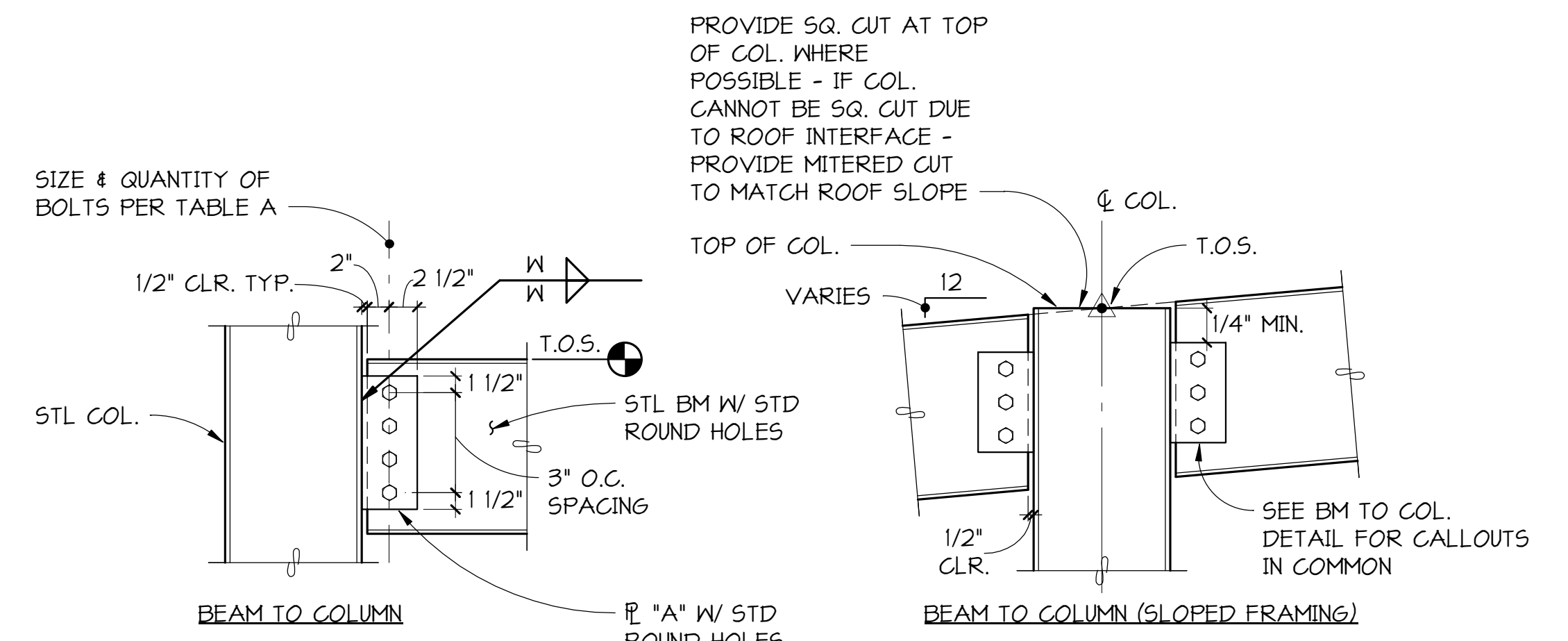
**TABLE B**

"I"	SKEN ANGLE $\theta$	DETAIL CASE	X	$W_N$	$W_F$
3/8"	$\theta \leq 2^\circ$	CASE I	$X \leq 1/2$	5/16	5/16
3/8"	$2 < \theta \leq 11^\circ$	CASE I	$1/2 < X \leq 2\frac{3}{8}$	3/8	5/16
3/8"	$11^\circ < \theta \leq 25^\circ$	CASE I	$2\frac{3}{8} < X \leq 5\frac{1}{2}$	1/2	5/16
3/8"	$25^\circ < \theta \leq 30^\circ$	CASE I	$5\frac{1}{2} < X \leq 7$	9/16	5/16
3/8"	$30^\circ < \theta < 45^\circ$	CASE II	$7 < X < 12$	3/8	5/16
3/8"	$\theta = 45^\circ$	CASE III	$X = 12$	1/4"	5/16
3/8"	$\theta > 45^\circ$	CASE IV	$X < 12$	CP	-

**NOTES:**  
1. THE NUT MAY BE PLACED ON THE ACUTE ANGLE SIDE OF SHEAR PLATE. WHEN THIS SITUATION OCCURS, THE BOLT ASSEMBLY MAY BE INSTALLED AS SNUG TIGHT IN LIEU OF FULLY PRETENSIONED.  
2. PROVIDE A COMPLETE PENETRATION WELD OF THE SHEAR PLATE TO THE SUPPORTING MEMBER WHERE THERE IS INSUFFICIENT CLEARANCE TO PLACE FILLET WELDS ON BOTH SIDES OF THE SHEAR PLATE.  
3.  $W_N$  IS THE EFFECTIVE THROAT OF A PARTIAL PENETRATION WELD.



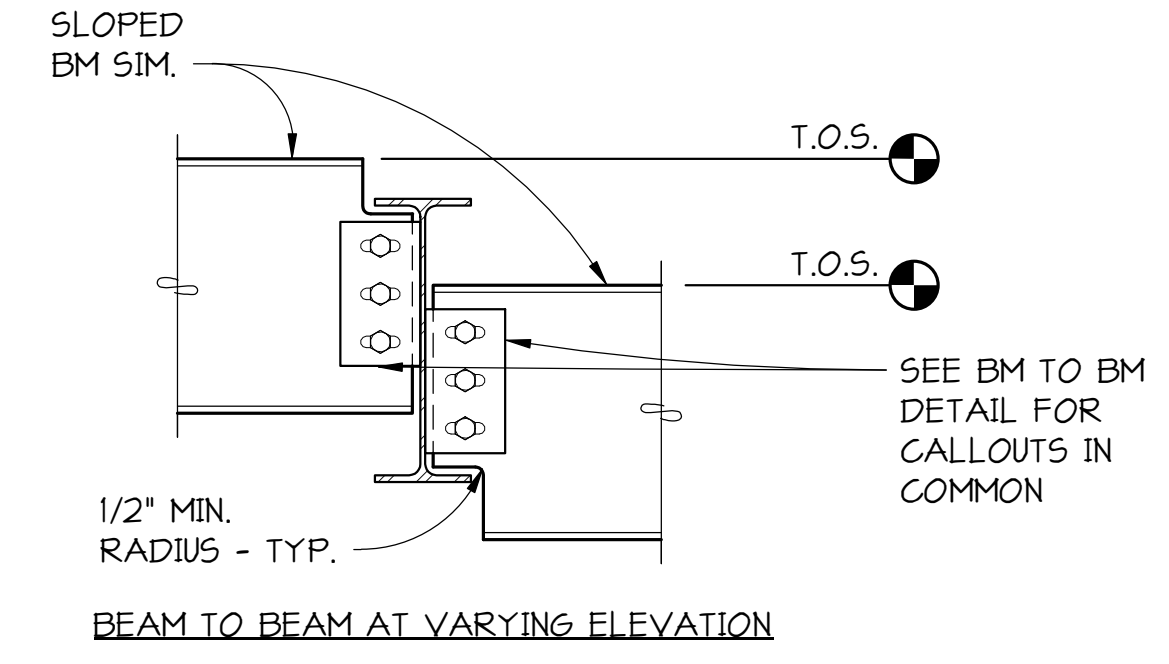
**2** TYPICAL STEEL DETAIL AT ANGLED CONNECTIONS  
DETAIL  
NO SCALE



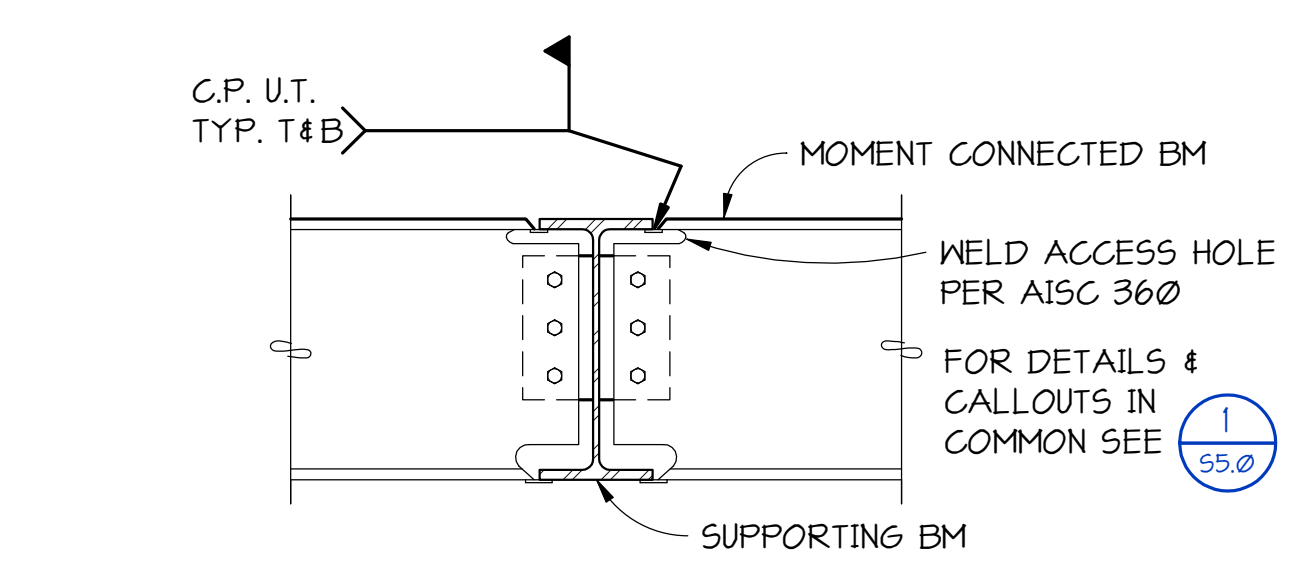
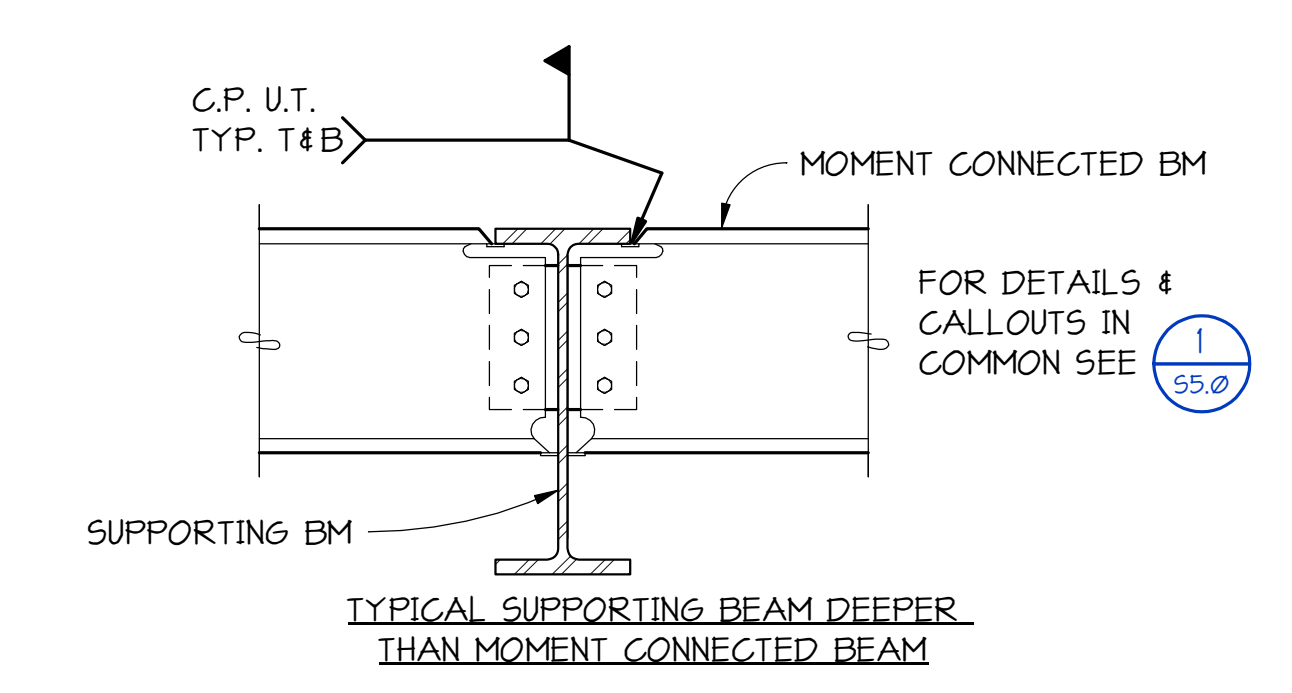
**TABLE A**

SUPPORTED BEAM SIZE	QUANTITY OF 7/8" DIAMETER A325N BOLTS	SHEAR PLATE THICKNESS "A"	WELD "W" NOTE 1.
W10	2	3/8"	5/16"
W12, W14	3	3/8"	5/16"
W16, W18	4	3/8"	5/16"

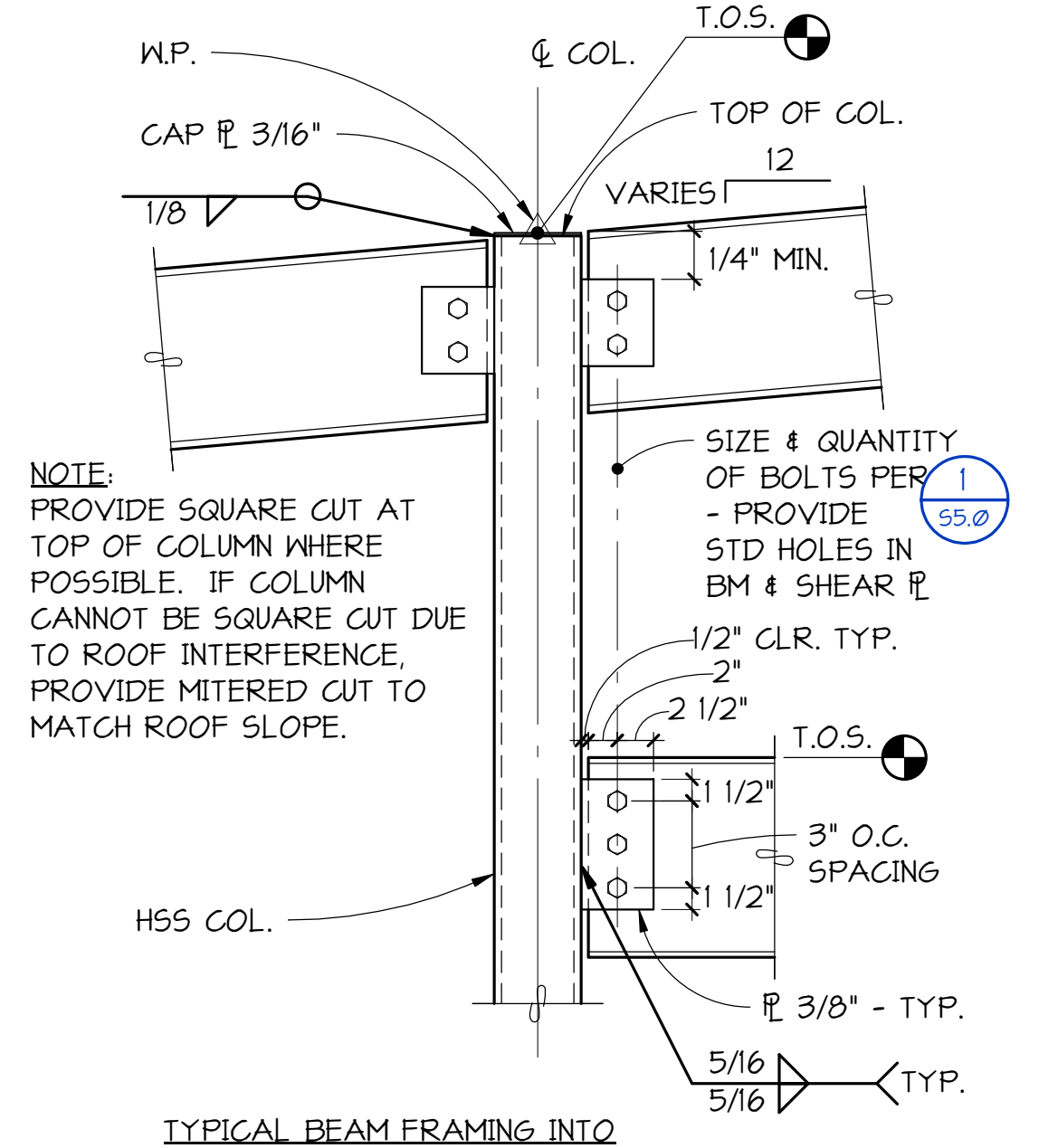
**NOTE:**  
1. WELD SIZE SHOWN IS FOR BEAM/GIRDERS FRAMING PERPENDICULAR INTO SUPPORTS. FOR SKEWED FRAMING CONNECTIONS - SEE TYPICAL STEEL DETAIL.



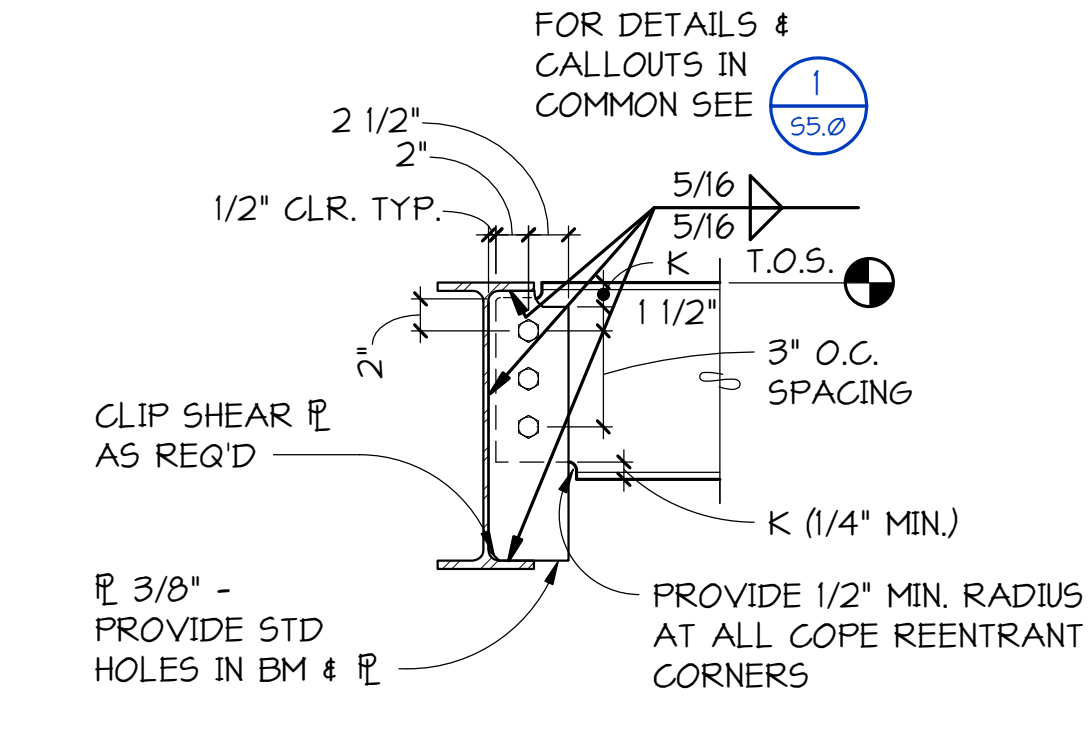
**1** TYPICAL STEEL DETAIL  
DETAIL  
NO SCALE



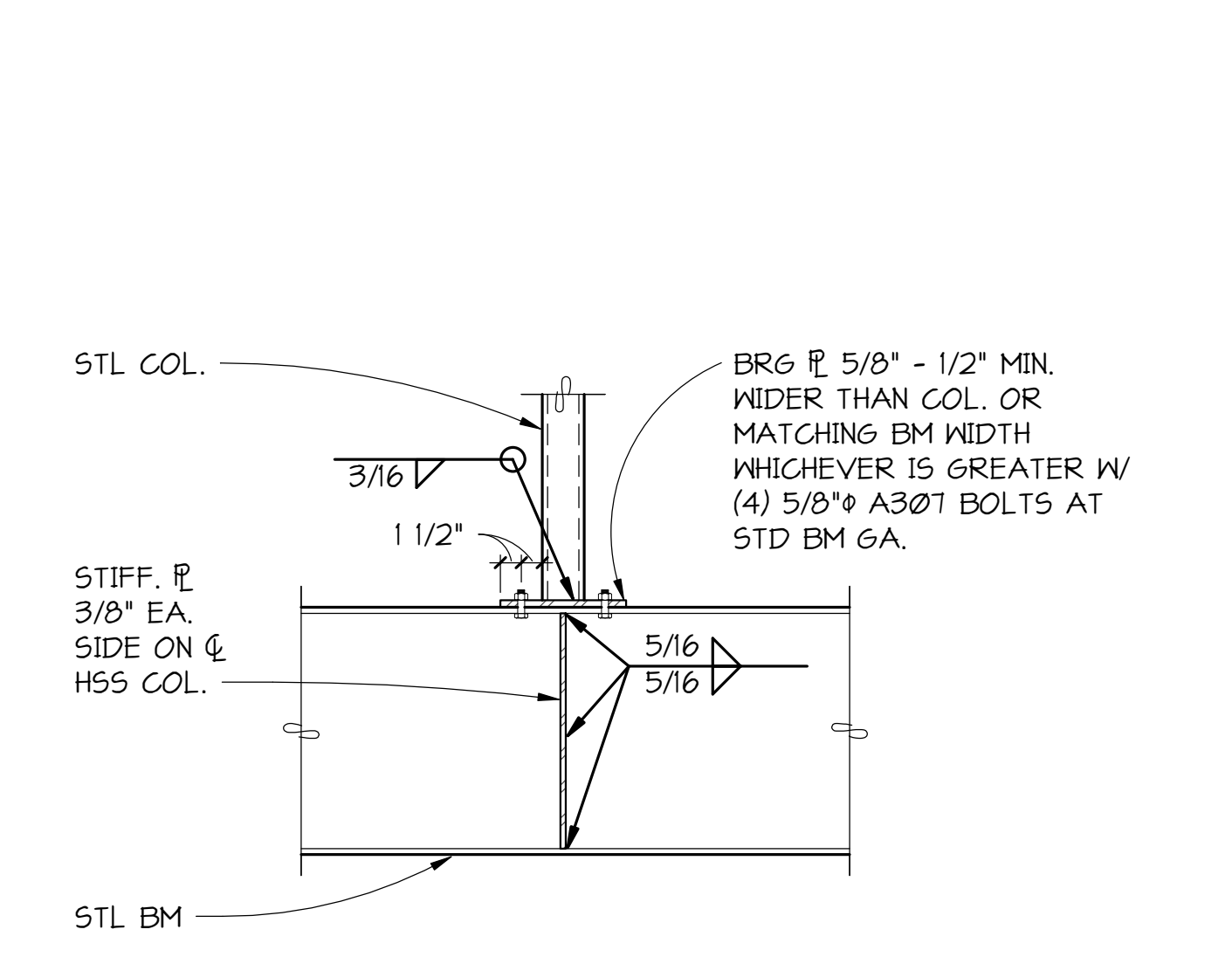
**6** TYPICAL MOMENT CONNECTION  
DETAIL  
NO SCALE



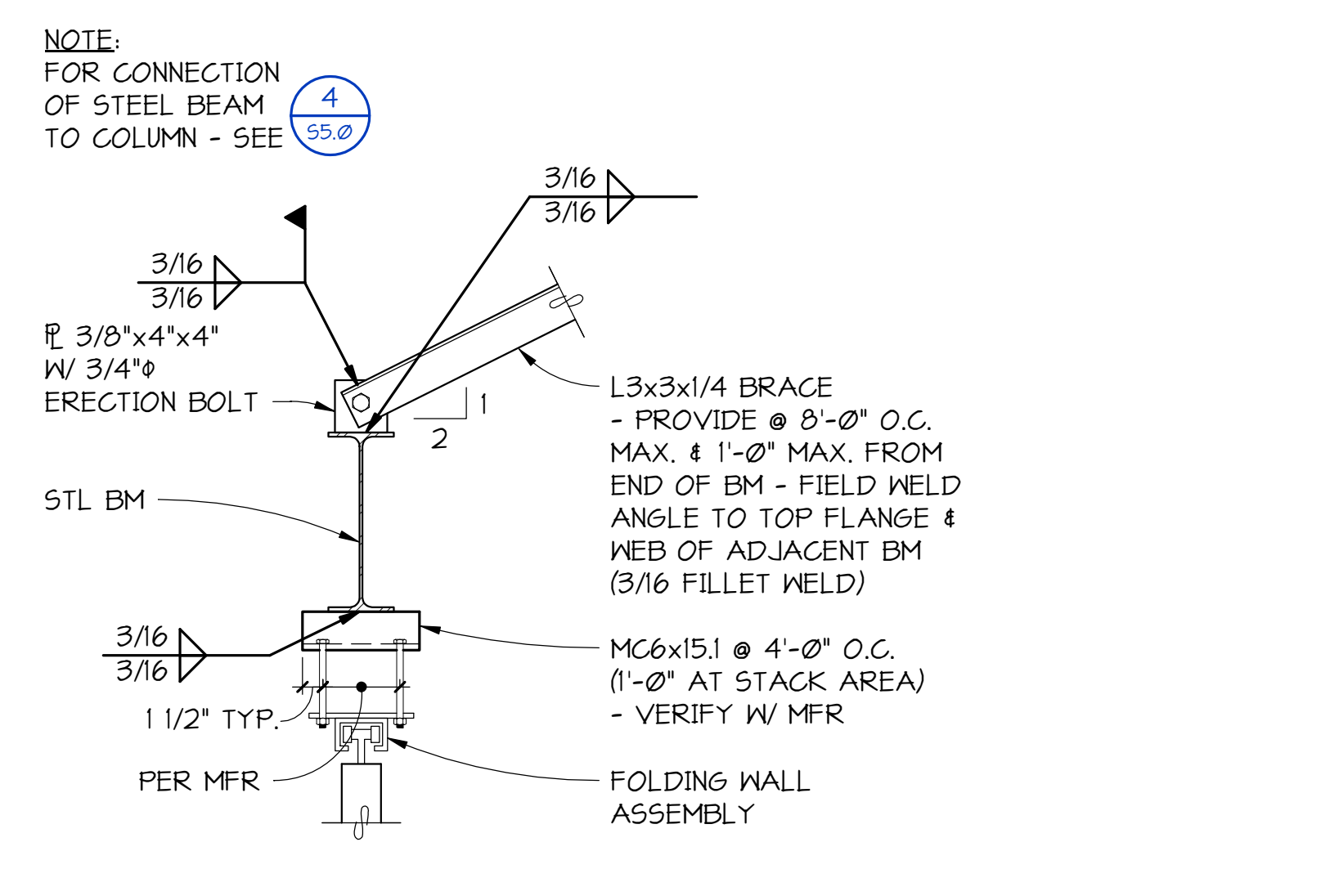
**4** TYPICAL BEAM FRAMING INTO HOLLOW STRUCTURAL STEEL COLUMN  
DETAIL  
NO SCALE



**5** TYPICAL BEAM FRAMING AT FULL DEPTH SHEAR PLATE  
DETAIL  
NO SCALE

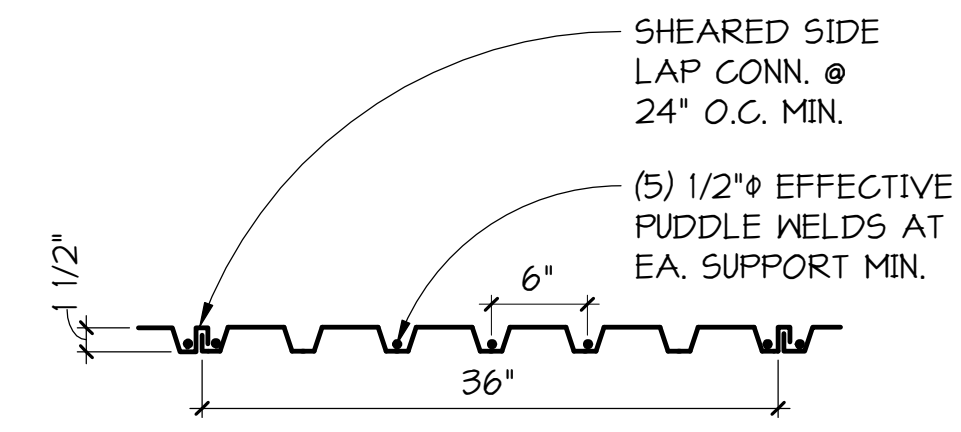
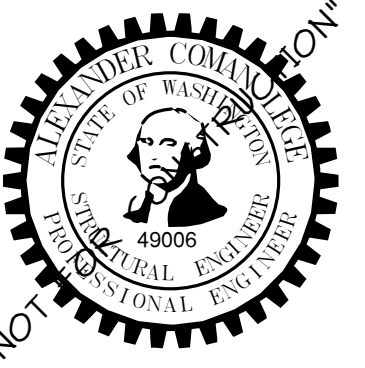


**7** TYPICAL STEEL BEAM CONNECTION TO COLUMN ABOVE  
DETAIL  
NO SCALE



**8** TYPICAL MOVABLE PARTITION SUPPORT BEAM  
SECTION  
NO SCALE

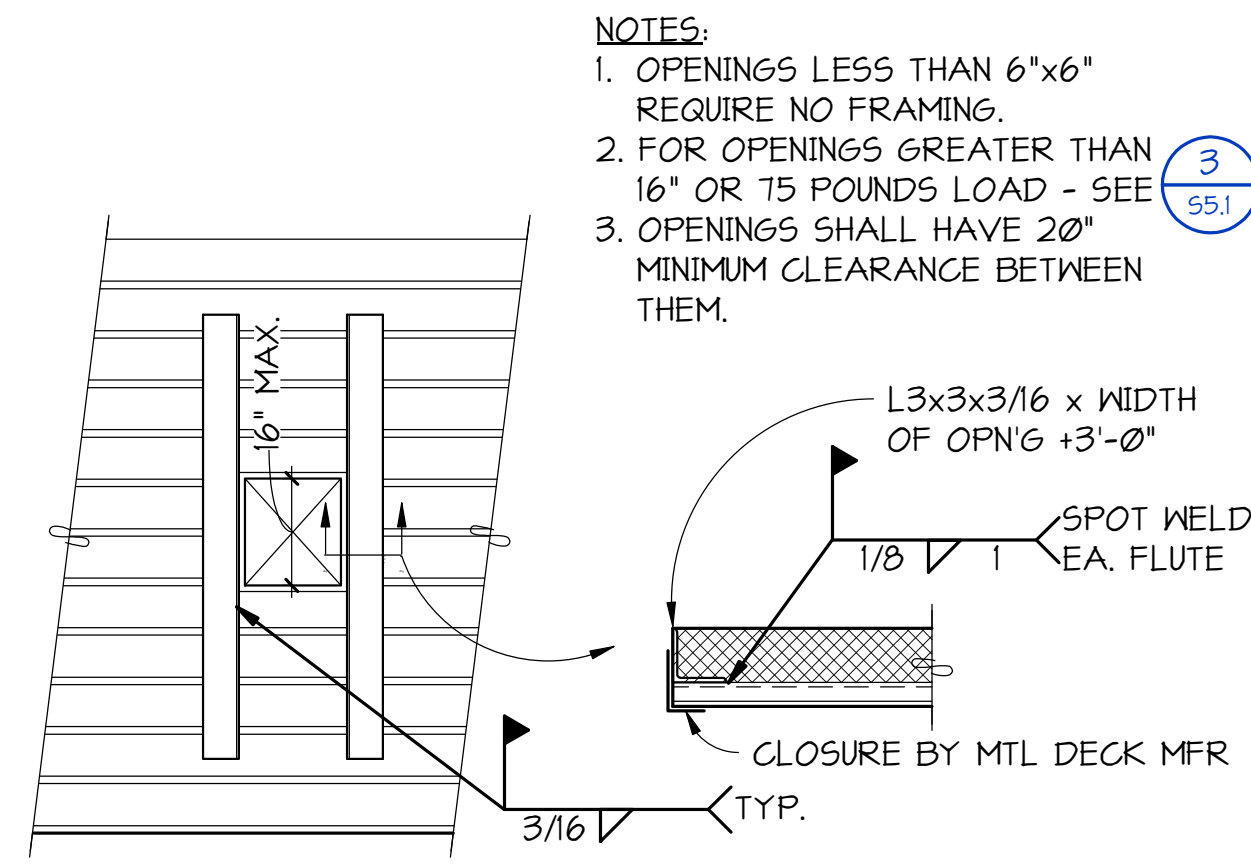




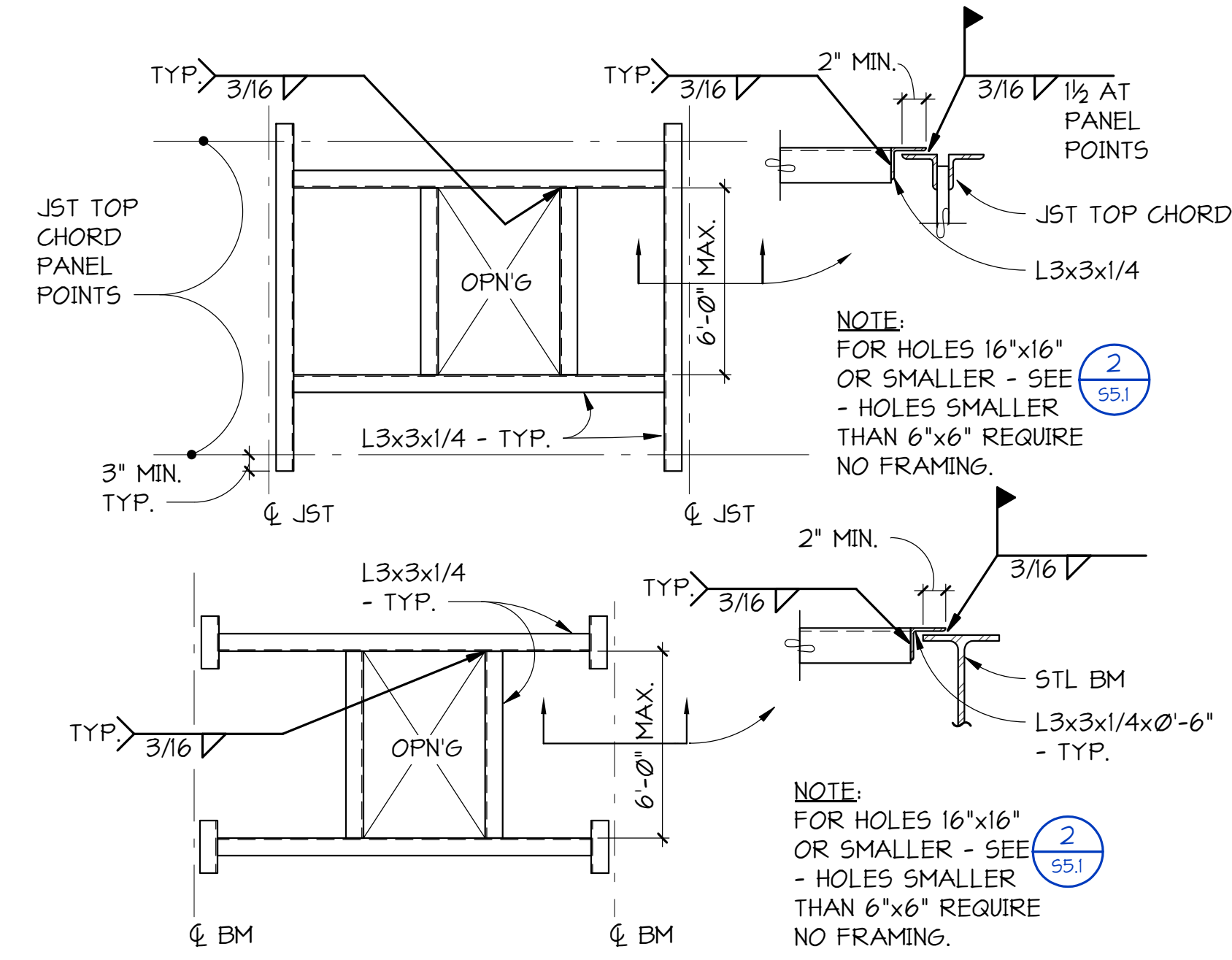
TYPE "B" DECK PROPERTIES		
GAGE	+1/-1 = (in. /ft.)	+5/-5 = (in. /ft.)
20	.147/.217	.224/.224

- NOTES:
- (2) SPAN MINIMUM, (3) PREFERRED.
  - AT SUPPORTS PARALLEL TO CORRUGATIONS, PROVIDE PUDDLE WELDS AT 24" ON CENTER MAXIMUM.
  - "SHEARED SIDE LAP" CONNECTION REFERS TO "PUNCHLOK" BY VERGO DECKING, INC. OR "DELTA GRIP" BY ASC STEEL DECK, OR PRE-APPROVED EQUAL.
  - MINIMUM DECK PROPERTIES AND WELD PATTERN SHOWN. PROVIDE HEAVIER GAGE AND/OR WELD PATTERN AS REQUIRED TO DEVELOP DIAPHRAGM SHEARS.
  - SECTION PROPERTIES ARE BASED ON  $F_y = 50$  KSI.

TYPICAL ROOF METAL DECK  
**1**  
 55.1  
 NO SCALE



TYPICAL AT ISOLATED OPENINGS IN NON-COMPOSITE METAL DECK LESS THAN 16 INCH SQUARE  
**2**  
 55.1  
 NO SCALE



TYPICAL FRAMING AT OPENINGS IN METAL ROOF DECK (MAXIMUM LOAD = 600 POUNDS)  
**3**  
 55.1  
 NO SCALE

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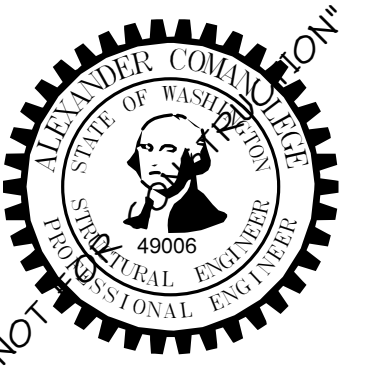
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**TYPICAL STEEL FRAMING DETAILS**

SCALE: As Indicated  
 DRAWN: SMS  
 CHECKED: CAJ  
 PROJECT NO: 2022021.000

SHEET  
**S5.1**

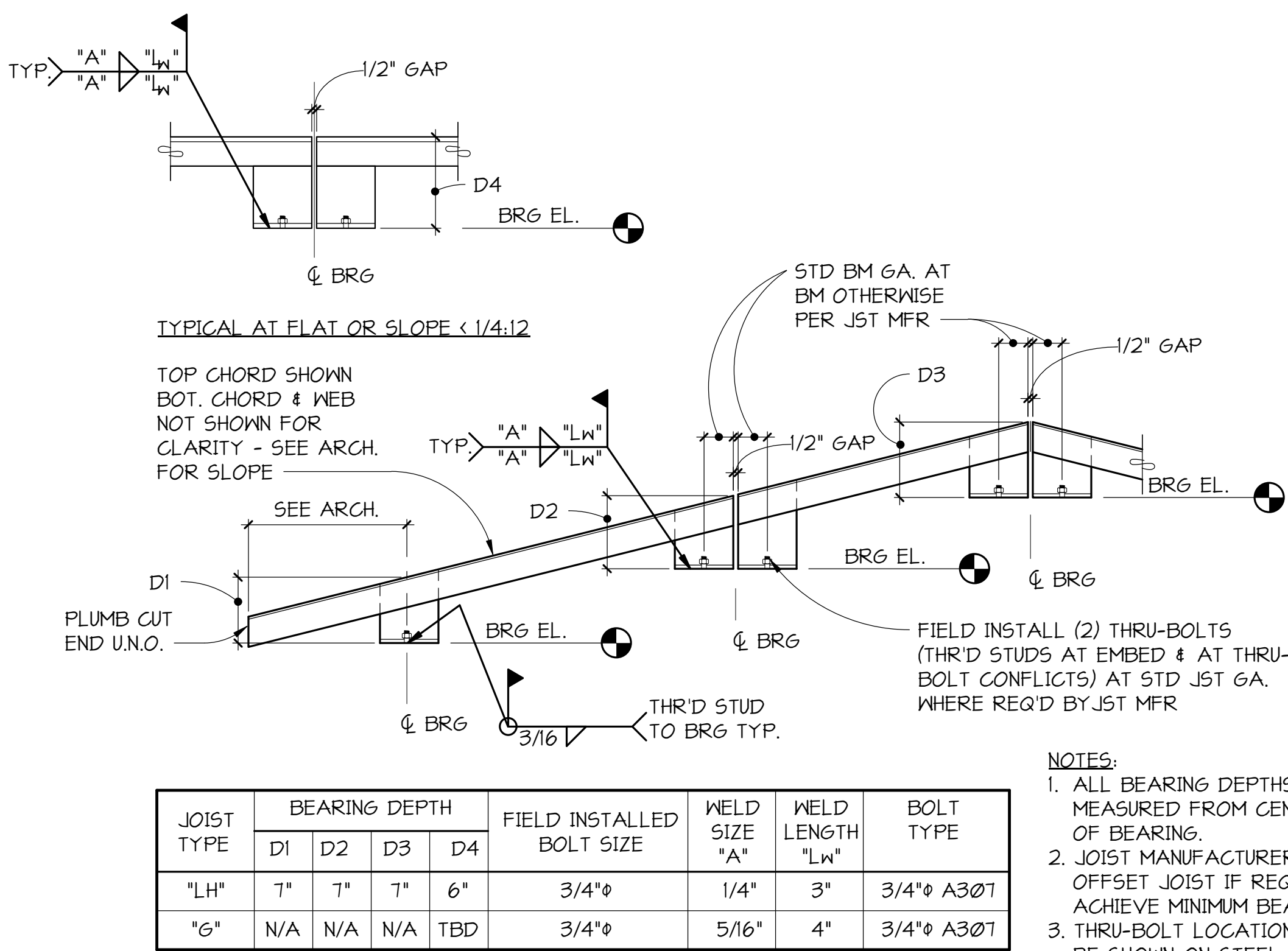




REVISION SCHEDULE		
Rev #	Date	Description

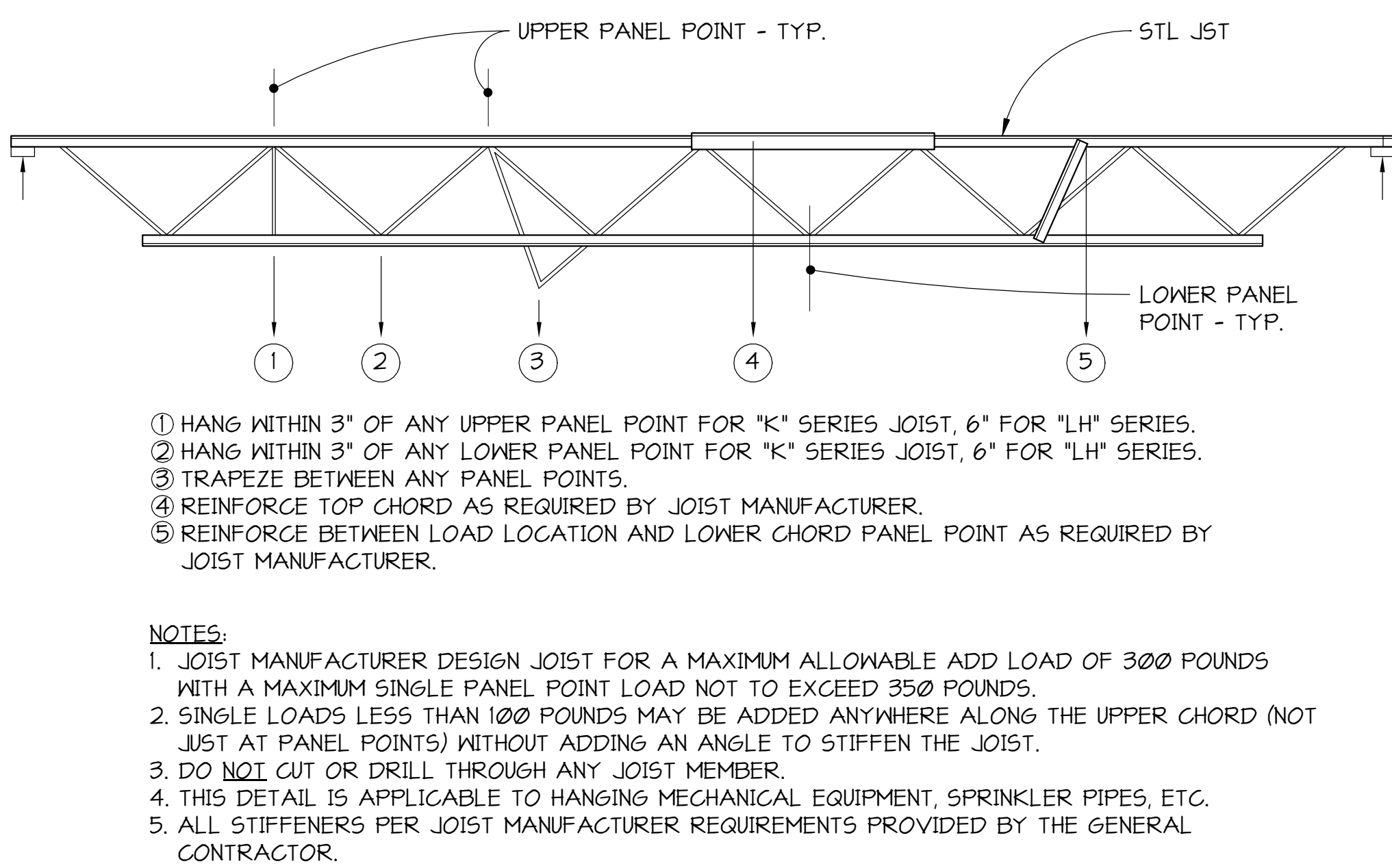
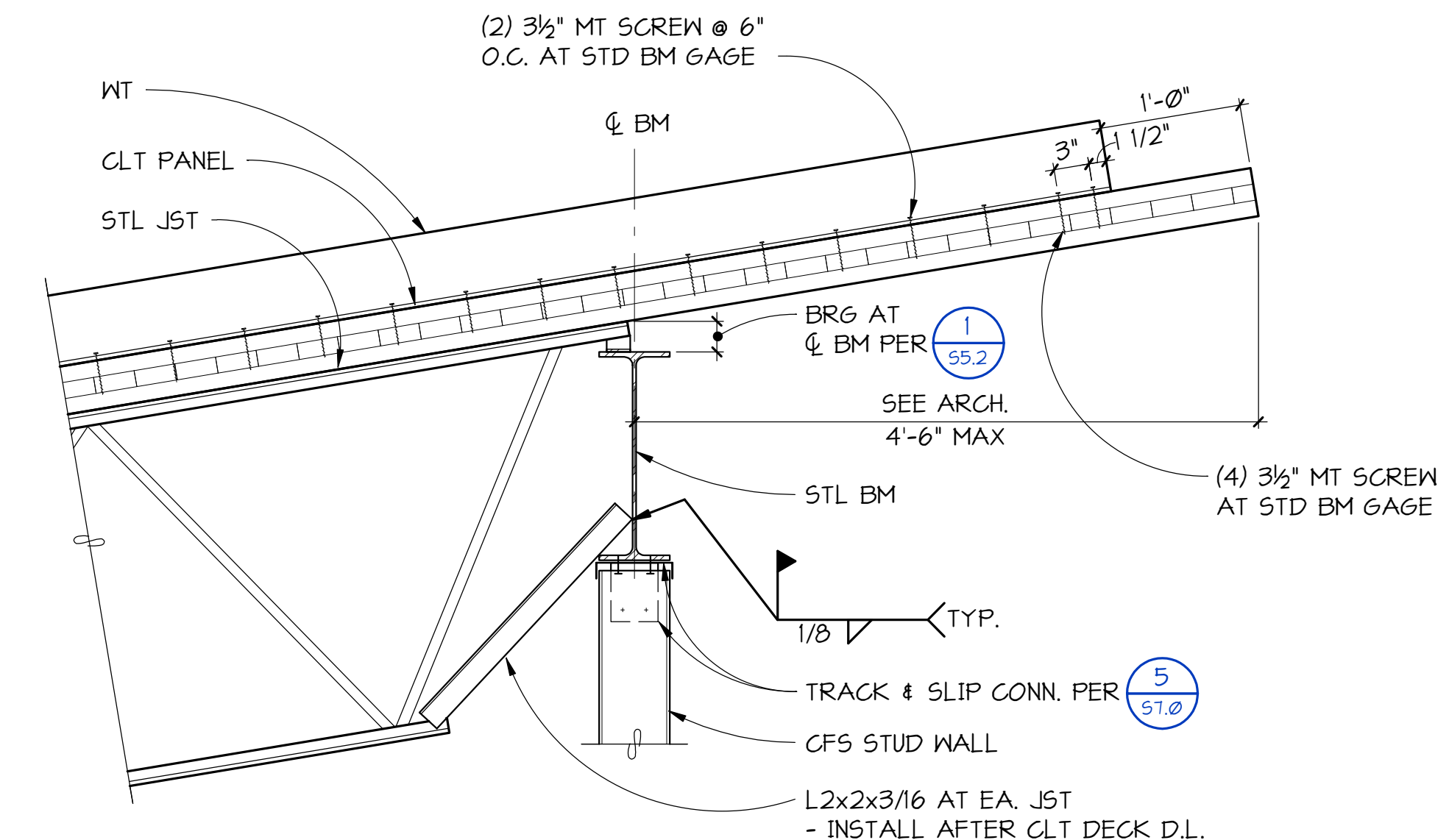
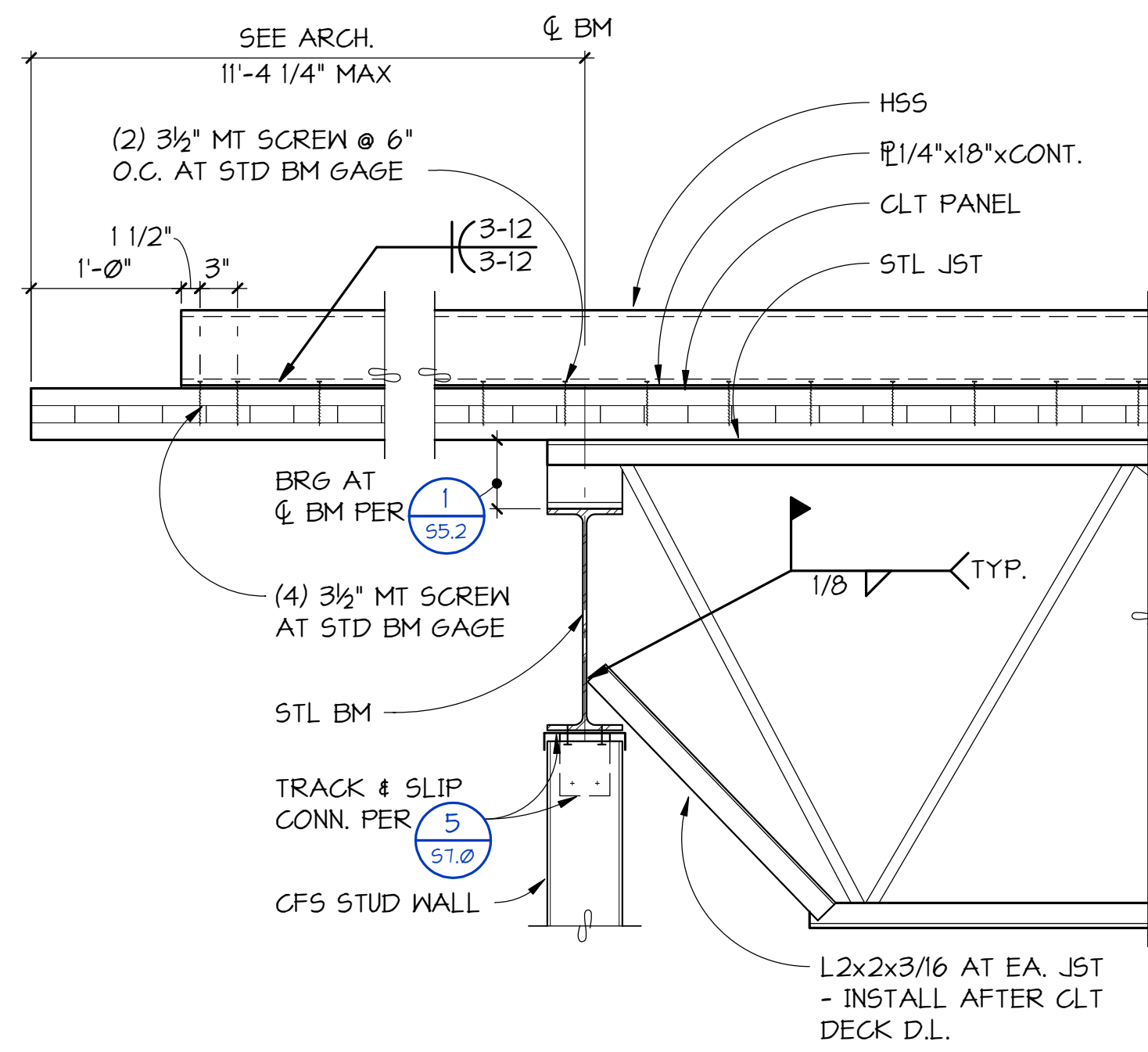
**CONTENTS:  
STEEL FRAMING  
DETAILS**

SCALE:	As Indicated
DRAWN:	SMS
CHECKED:	CAJ
PROJECT NO.:	2022021.000



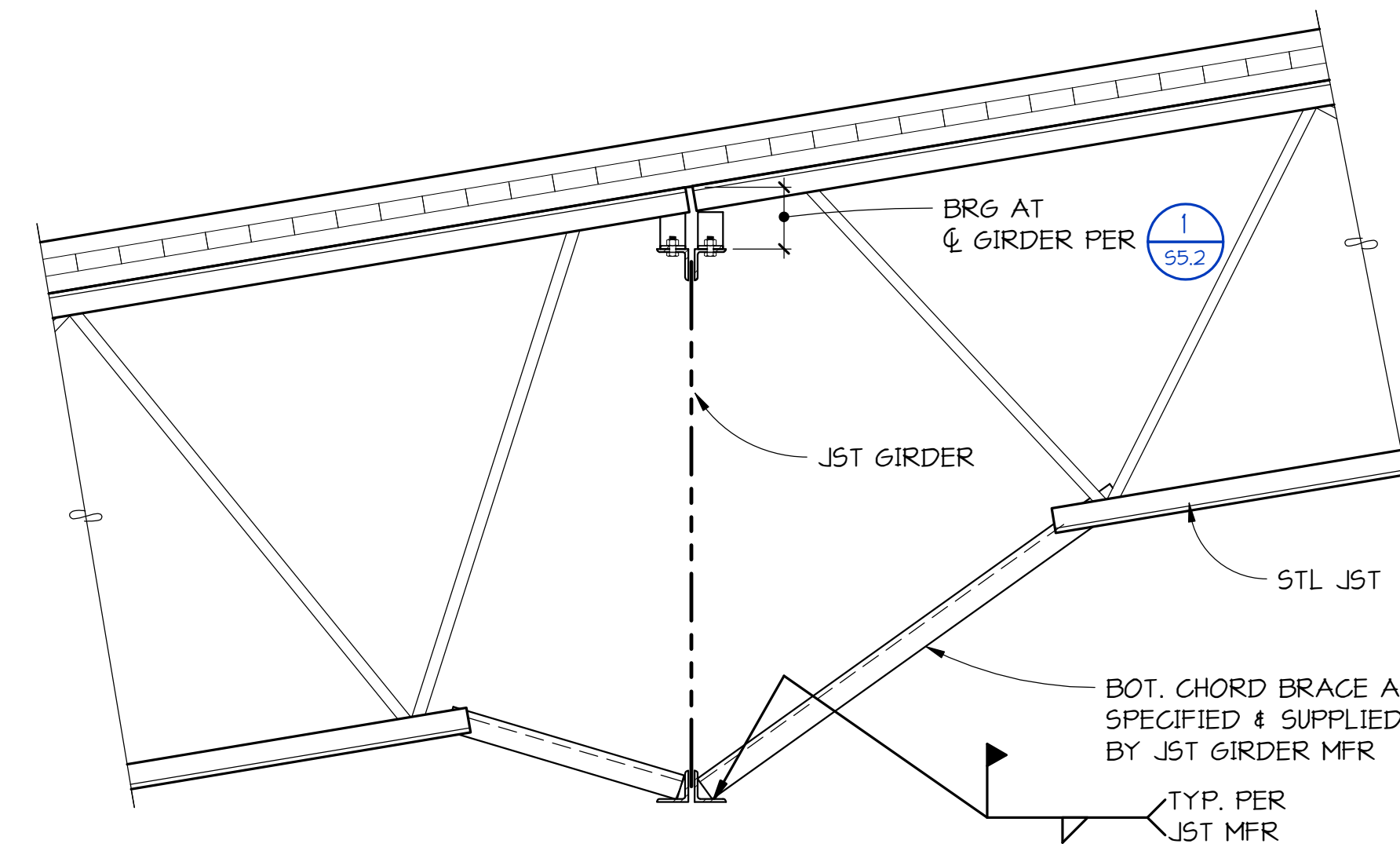
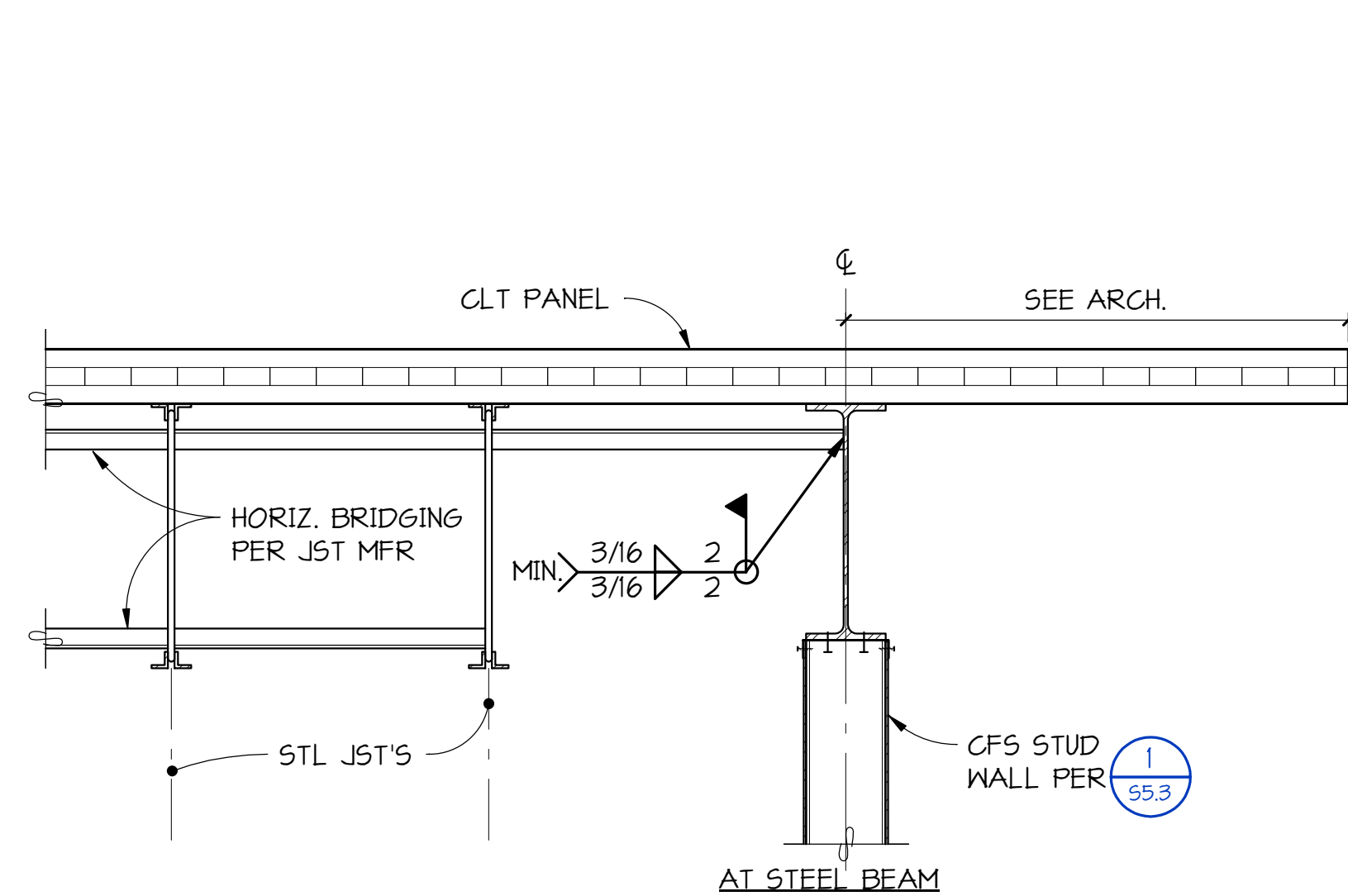
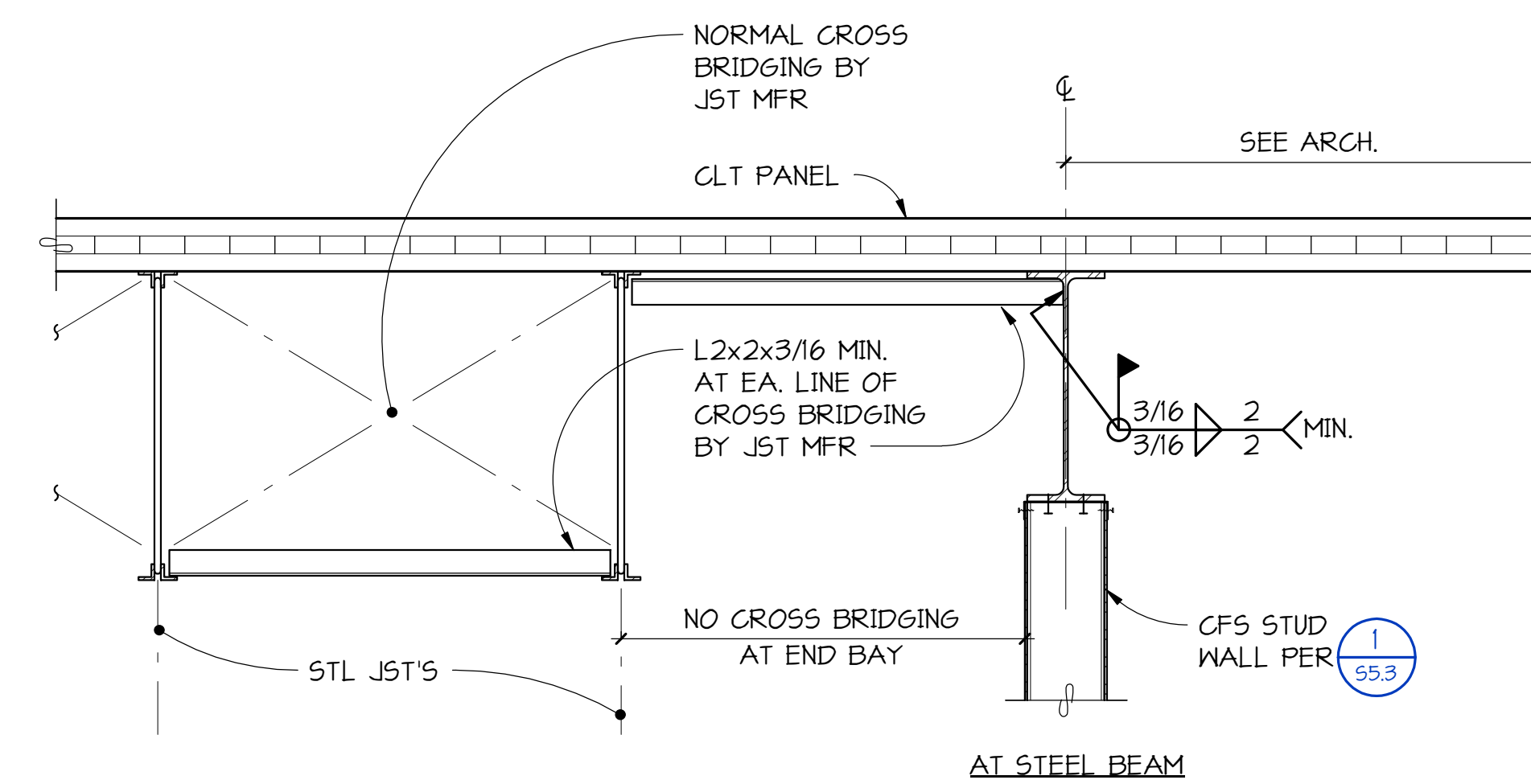
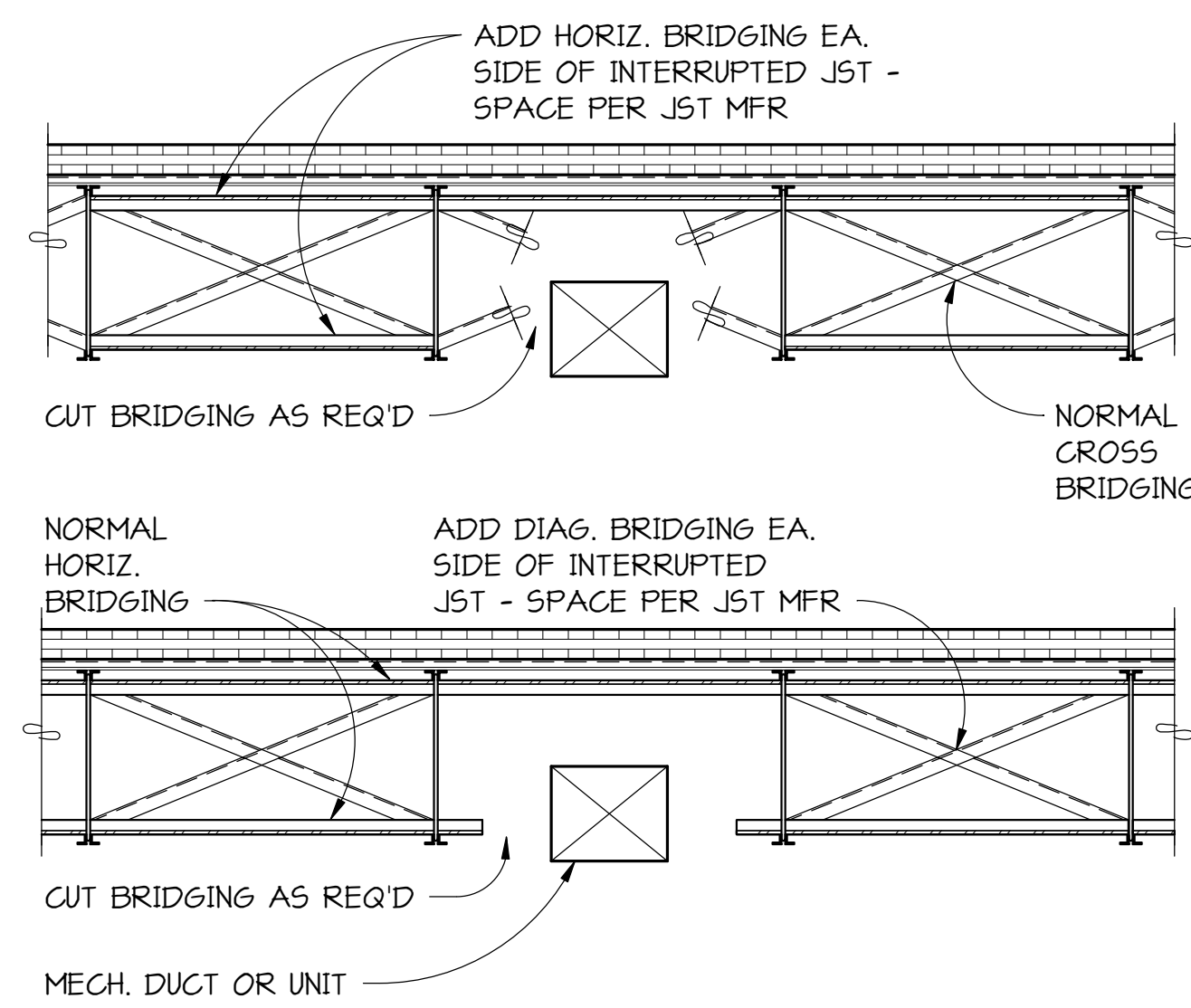
JOIST TYPE	BEARING DEPTH				FIELD INSTALLED BOLT SIZE	WELD SIZE "A"	WELD LENGTH "L"	BOLT TYPE
	D1	D2	D3	D4				
"LH"	7"	7"	7"	6"	3/4"	3"	3/4" A307	
"S"	N/A	N/A	N/A	TBD	3/4"	5/16"	4"	3/4" A307

- NOTES:**
- ALL BEARING DEPTHS MEASURED FROM CENTERLINE OF BEARING.
  - JOIST MANUFACTURER/SUPPLIER OFFSET JOIST IF REQUIRED TO ACHIEVE MINIMUM BEARING.
  - THRU-BOLT LOCATIONS SHALL BE SHOWN ON STEEL SHOP DRAWINGS.

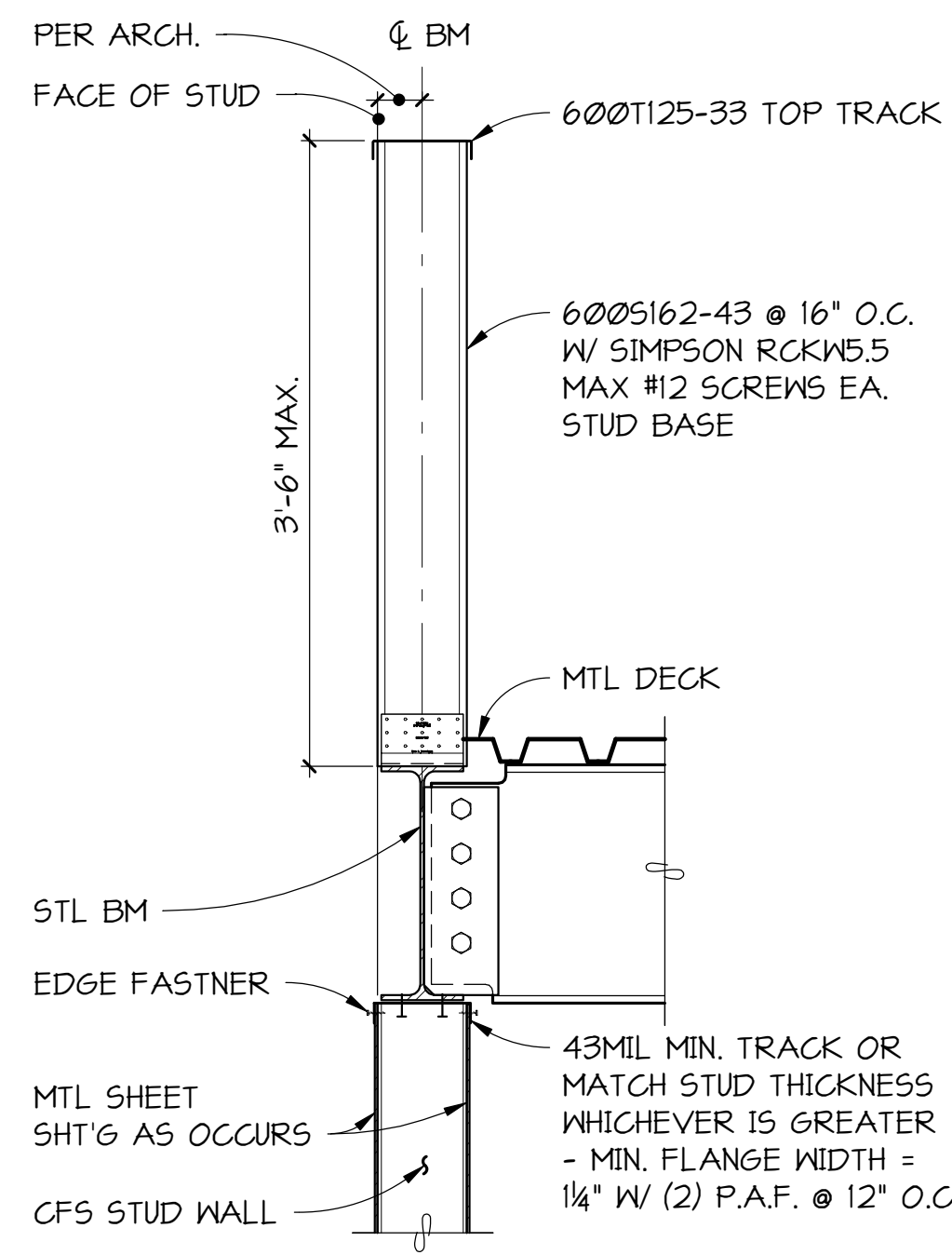


- HANG WITHIN 3" OF ANY UPPER PANEL POINT FOR "K" SERIES JOIST, 6" FOR "LH" SERIES.
- HANG WITHIN 3" OF ANY LOWER PANEL POINT FOR "K" SERIES JOIST, 6" FOR "LH" SERIES.
- TRAPEZE BETWEEN ANY PANEL POINTS.
- REINFORCE TOP CHORD AS REQUIRED BY JOIST MANUFACTURER.
- REINFORCE BETWEEN LOAD LOCATION AND LOWER CHORD PANEL POINT AS REQUIRED BY JOIST MANUFACTURER.

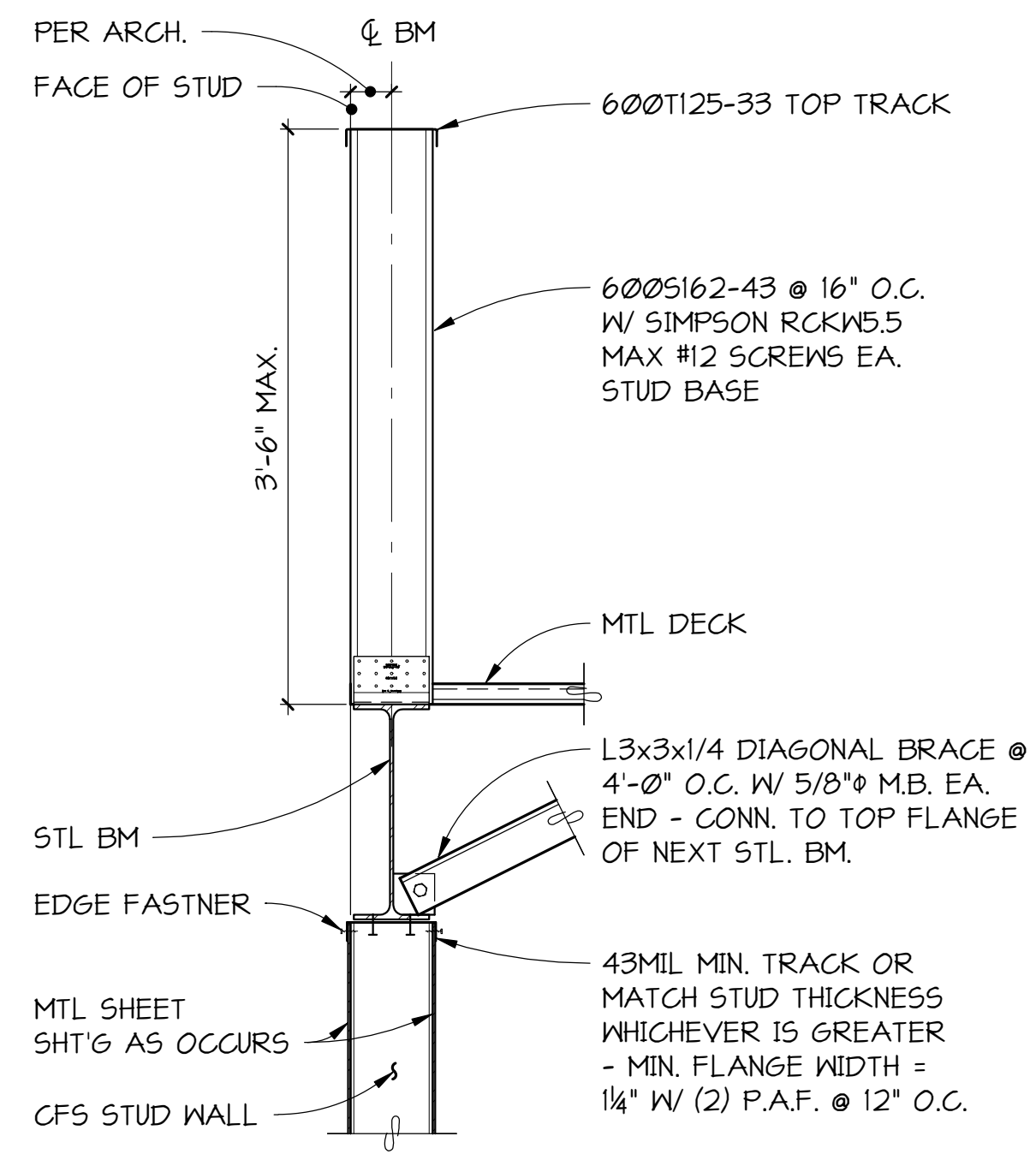
- NOTES:**
- JOIST MANUFACTURER DESIGN JOIST FOR A MAXIMUM ALLOWABLE ADD LOAD OF 300 POUNDS WITH A MAXIMUM SINGLE PANEL POINT LOAD NOT TO EXCEED 300 POUNDS.
  - SINGLE LOADS LESS THAN 100 POUNDS MAY BE ADDED ANYWHERE ALONG THE UPPER CHORD (NOT JUST AT PANEL POINTS) WITHOUT ADDING AN ANGLE TO STIFFEN THE JOIST.
  - DO NOT CUT OR DRILL THROUGH ANY JOIST MEMBER.
  - THIS DETAIL IS APPLICABLE TO HANGING MECHANICAL EQUIPMENT, SPRINKLER PIPES, ETC.
  - ALL STIFFENERS PER JOIST MANUFACTURER REQUIREMENTS PROVIDED BY THE GENERAL CONTRACTOR.







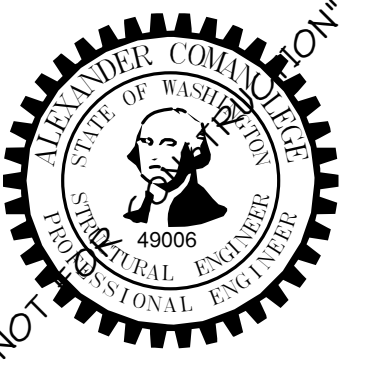
1 SECTION  
S5.3 NO SCALE



2 SECTION  
S5.3 NO SCALE

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ISSUE DATE: DECEMBER 01, 2023

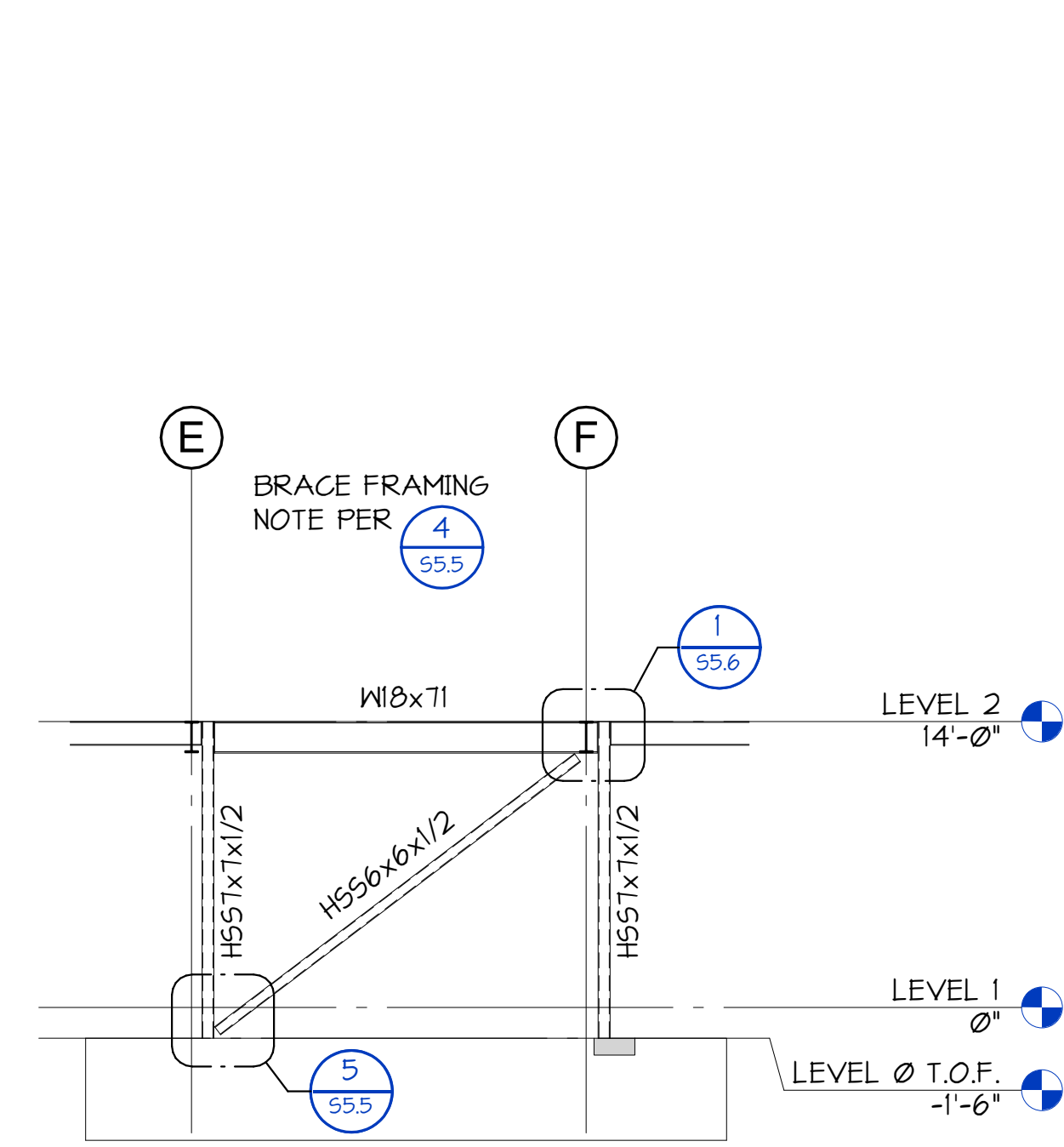
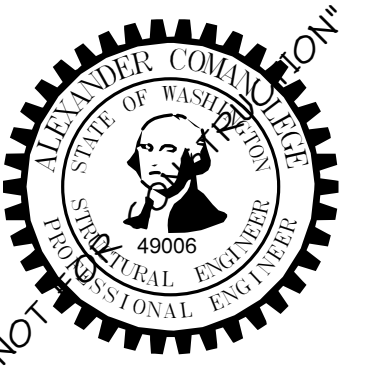
REVISION SCHEDULE		
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CONTENTS:  
**STEEL FRAMING  
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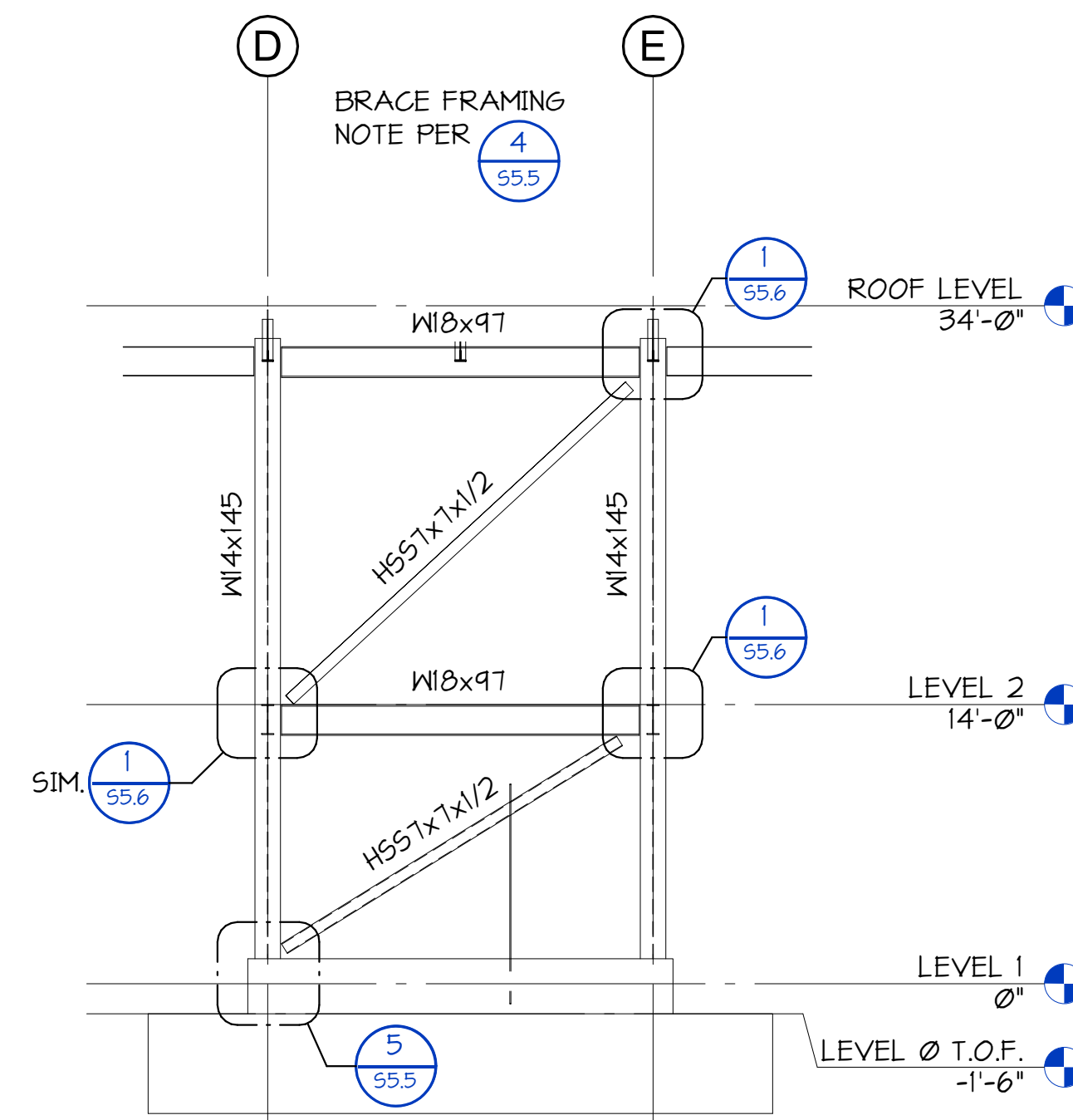
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PROJECT NO: 2022021.000

SHEET  
**S5.3**

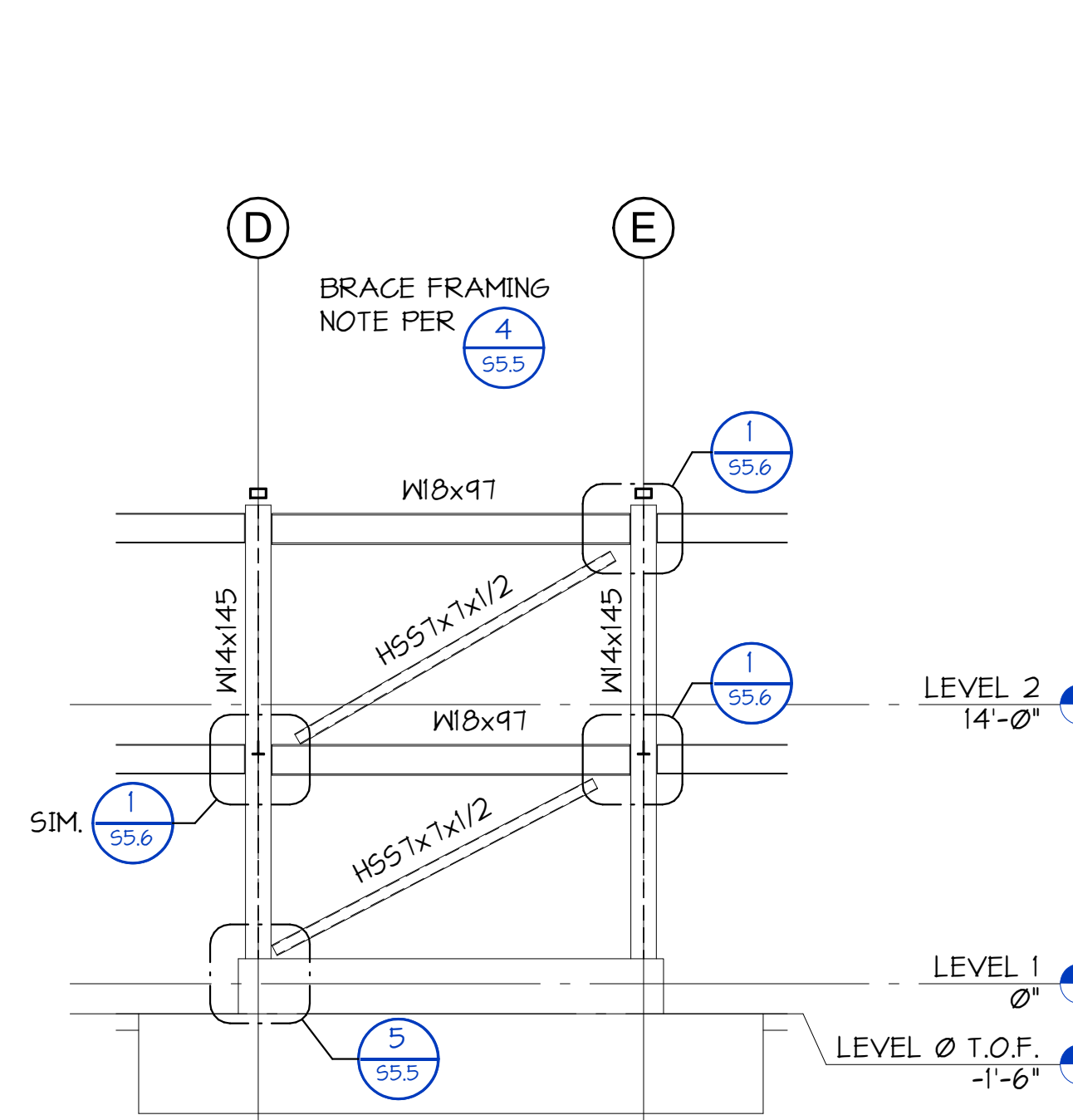




**1**  
55.5  
ELEVATION  
1/8" = 1'-0"



**2**  
55.5  
ELEVATION  
1/8" = 1'-0"

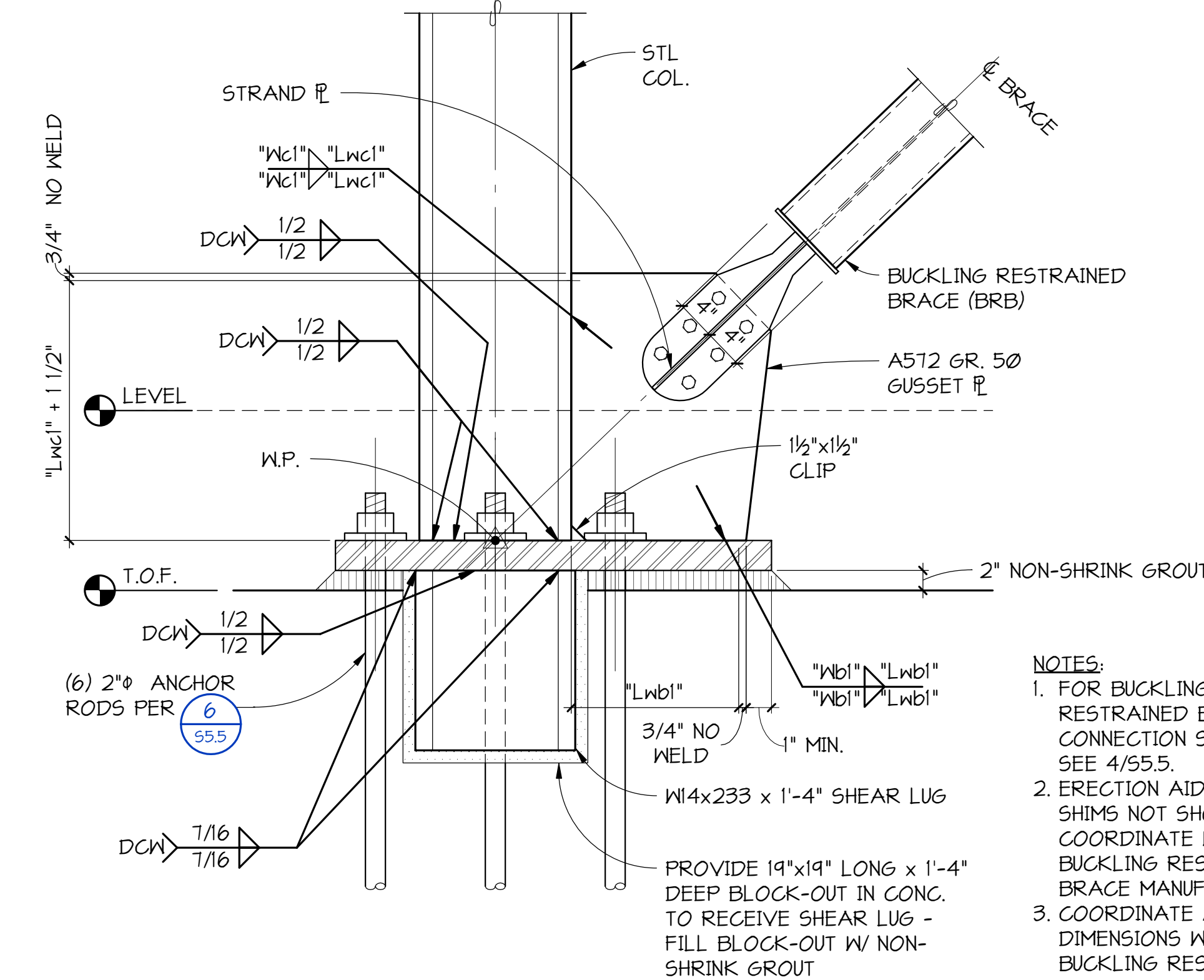
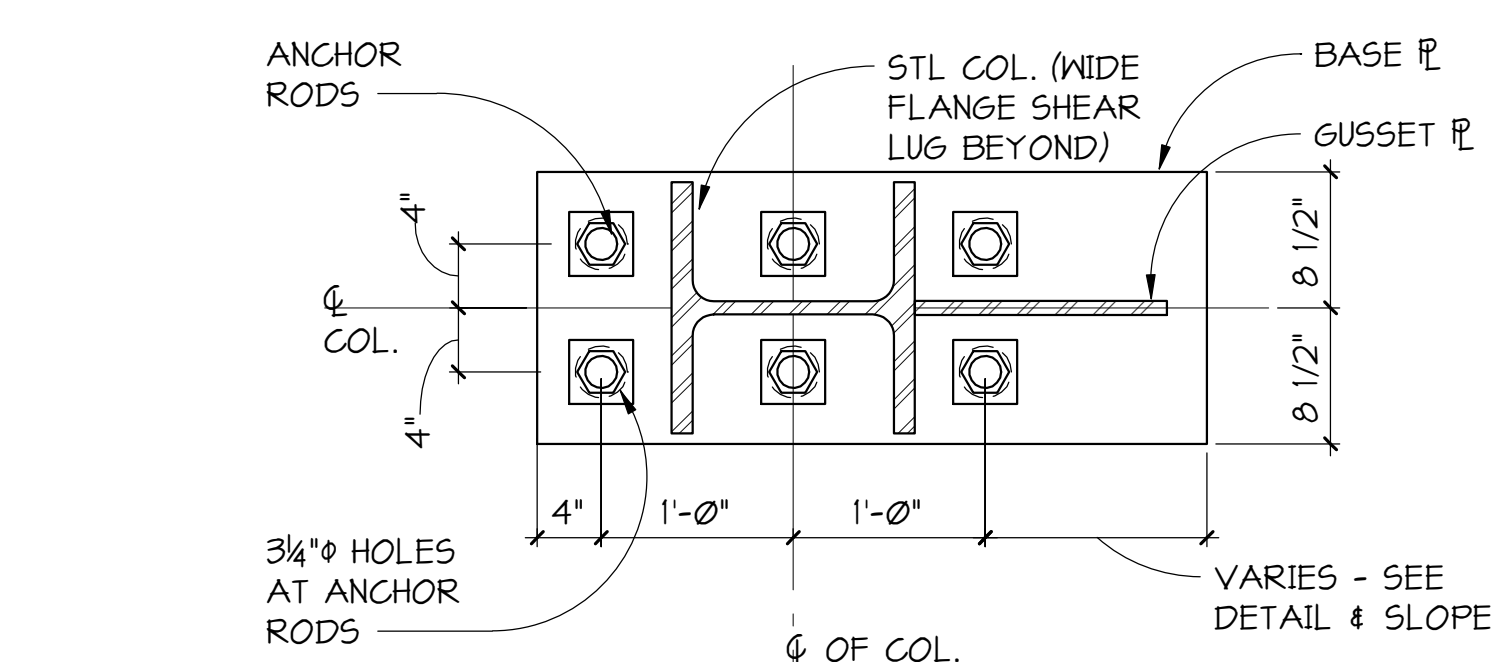


**3**  
55.5  
ELEVATION  
1/8" = 1'-0"

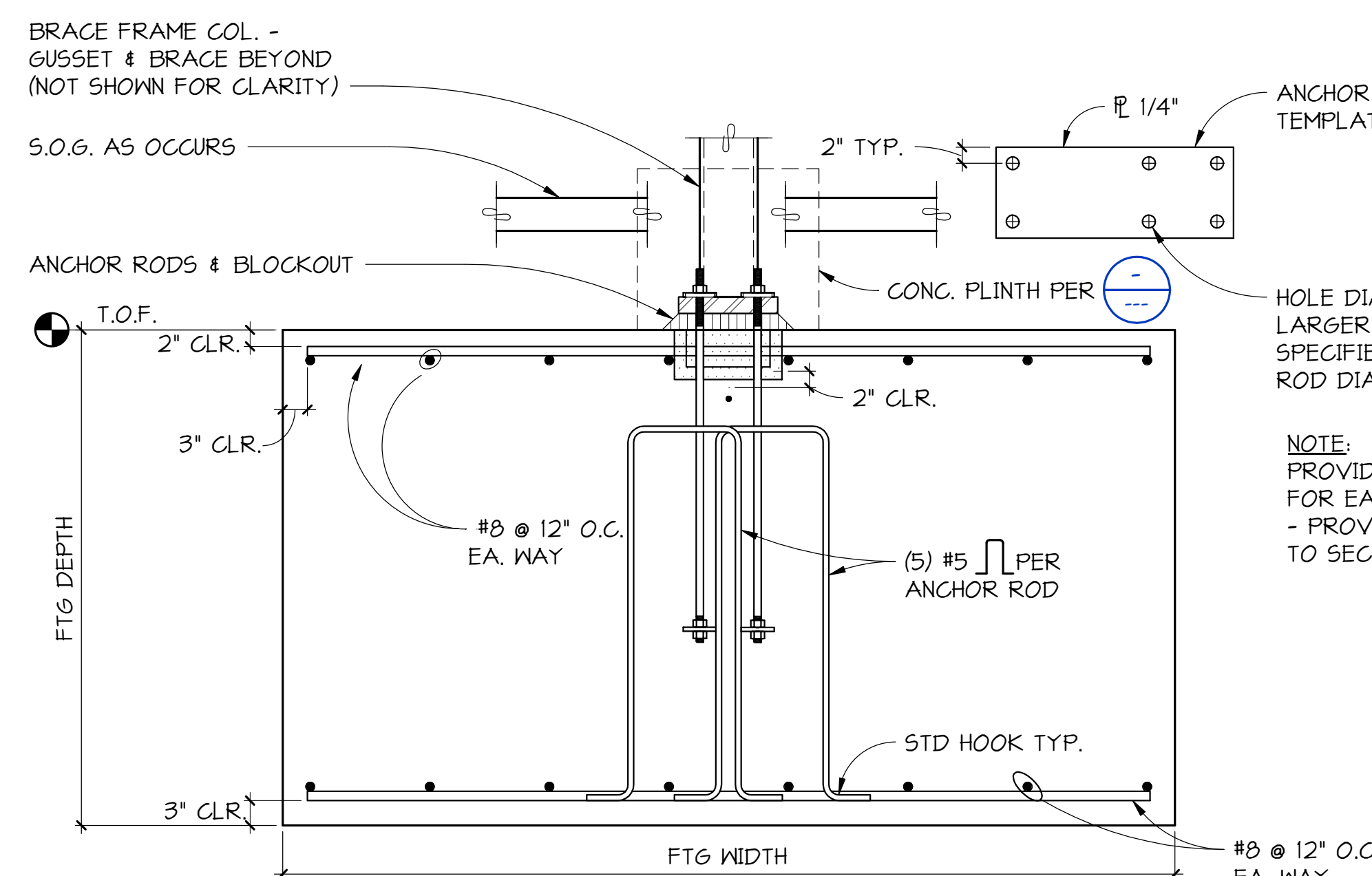
BRACED FRAME	BRACE TYPE	GUSSET PLATE THICKNESS (in.)	BRACE/GUSSET CONNECTION		LOWER BEAM WELD		LOWER COLUMN WELD		UPPER CHEVRON WELD	
			# BOLTS	BOLT DIA. (in.)	Wb1	Lwb1(m)	Wc1(m)	Lwc1(m)	Wb2	Lwb2(m)
BF-1	BRB-1									
BF-2	BRB-2									
BF-3	BRB-3									
BF-4	BRB-4									
	BRB-5									

- BUCKLING RESTRAINED BRACE SCHEDULE NOTES**
- SEE SHEET BRBF1 FOR BUCKLING RESTRAINED BRACE FRAME CALLOUTS.
  - WORK THIS SCHEDULE WITH DETAILS 2, 4 AND 5/BRBF3.
  - ALL GUSSET PLATES SHALL BE A512 GRADE 50.
  - COORDINATE ALL DIMENSIONS WITH BUCKLING RESTRAINED BRACE MANUFACTURER PRIOR TO FABRICATION.
  - REFER TO 4/BRBF3. WELD SIZE INDICATED IS MINIMUM ASSUMING NO GAP BETWEEN GUSSET EDGE AND COLUMN FLANGE. IF, AT FIT UP, THE GAP IS GREATER THAN 1/16", THE LEG OF THE FILLET WELD SHALL BE INCREASED BY THE AMOUNT OF THE ROOT OPENING UP TO 3/16" MAXIMUM GAP.
  - BOLTS ARE ASTM F3125 GR. A490.
  - FINAL DESIGN OF BUCKLING RESTRAINED BRACES, GUSSET, AND CONNECTION WELDS ARE PER THE BUCKLING RESTRAINED BRACE MANUFACTURER.

**4**  
55.5  
BRACED FRAME NOTES  
NO SCALE



**5**  
55.5  
SECTION  
NO SCALE



**6**  
55.5  
SECTION  
NO SCALE

ANCHOR ROD SIZE	MATERIAL	TYPE	WASHER SIZE		NUT
			A	B	
1/2"	F1554 GRADE 105		1/2"x4"x0-4" W/ 2 3/8" HOLE CENTERED	ASTM F844 CARBON FLAT WASHER	A563 GRADE DH HEAVY HEX

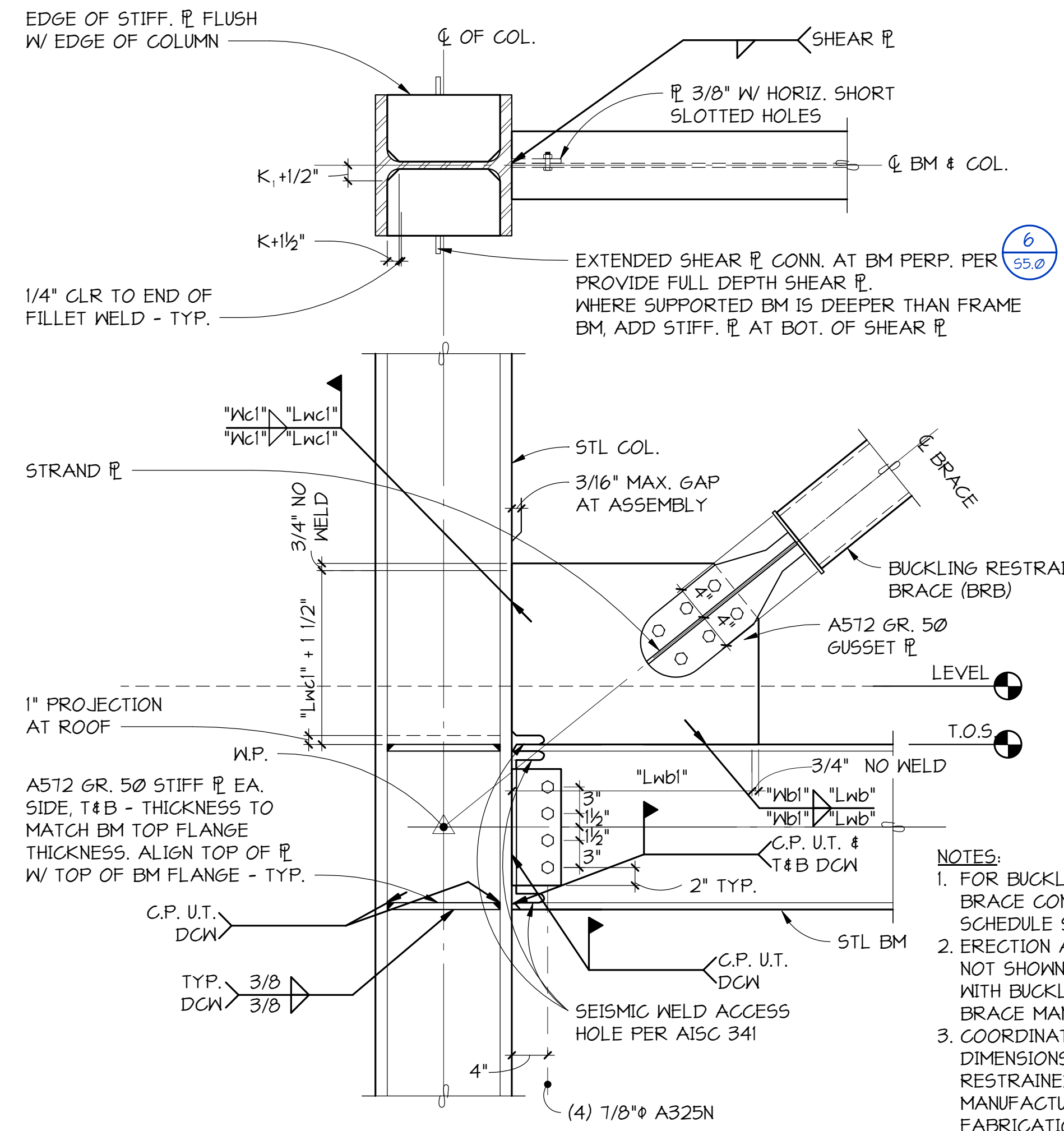
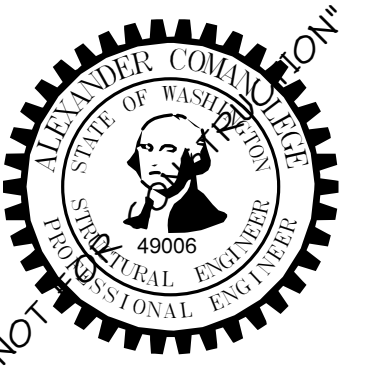
TYPICAL ANCHOR ROD DETAIL AT BRACED FRAMES

- NOTES:**
- FOR BUCKLING RESTRAINED BRACE CONNECTION SCHEDULE SEE 4/55.5.
  - ERECTION AIDS AND SHIMS NOT SHOWN - COORDINATE WITH BUCKLING RESTRAINED BRACE MANUFACTURER.
  - COORDINATE ALL DIMENSIONS WITH BUCKLING RESTRAINED BRACE MANUFACTURER PRIOR TO FABRICATION.

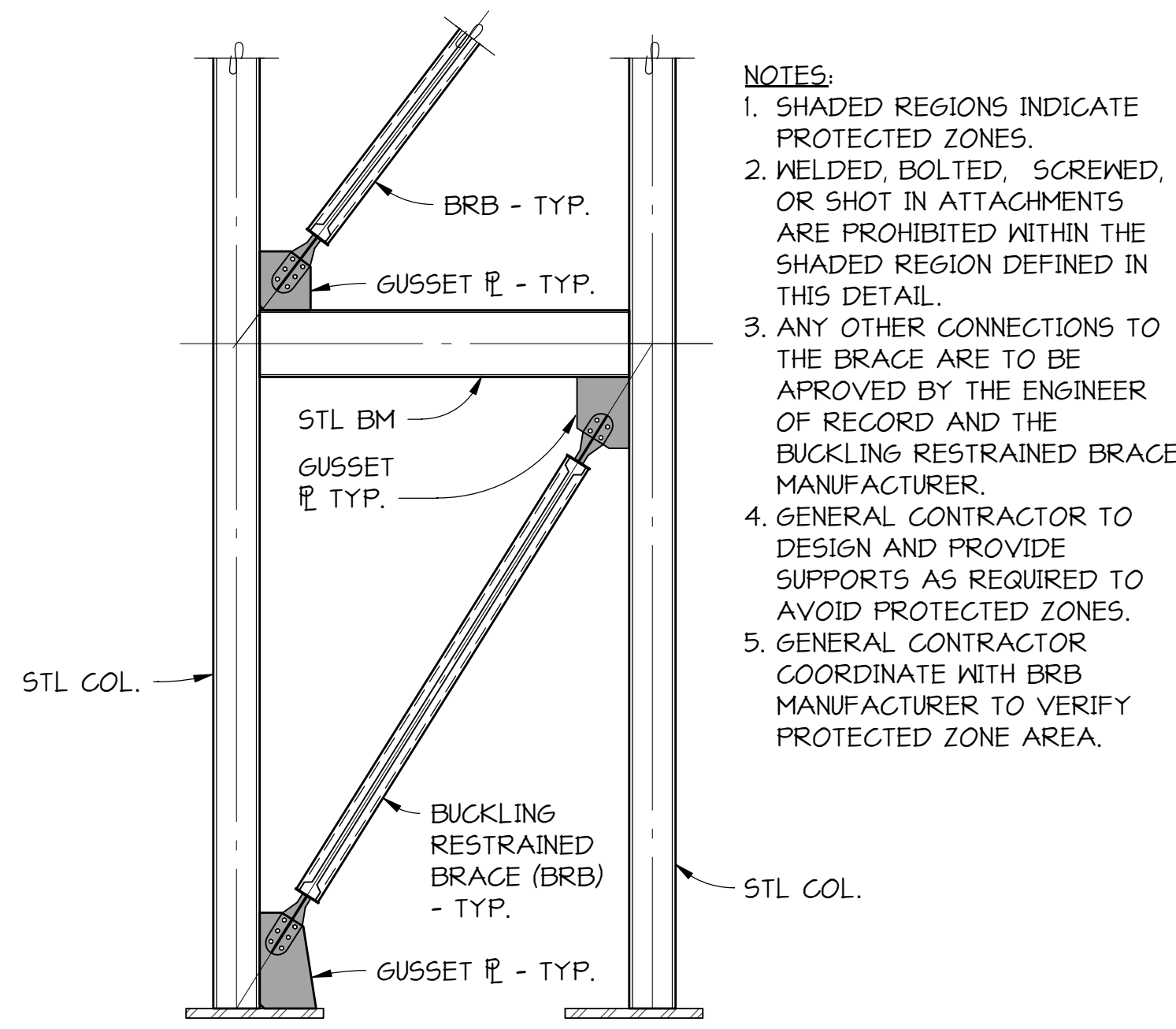


REVISION SCHEDULE		
Rev #	Date	Description

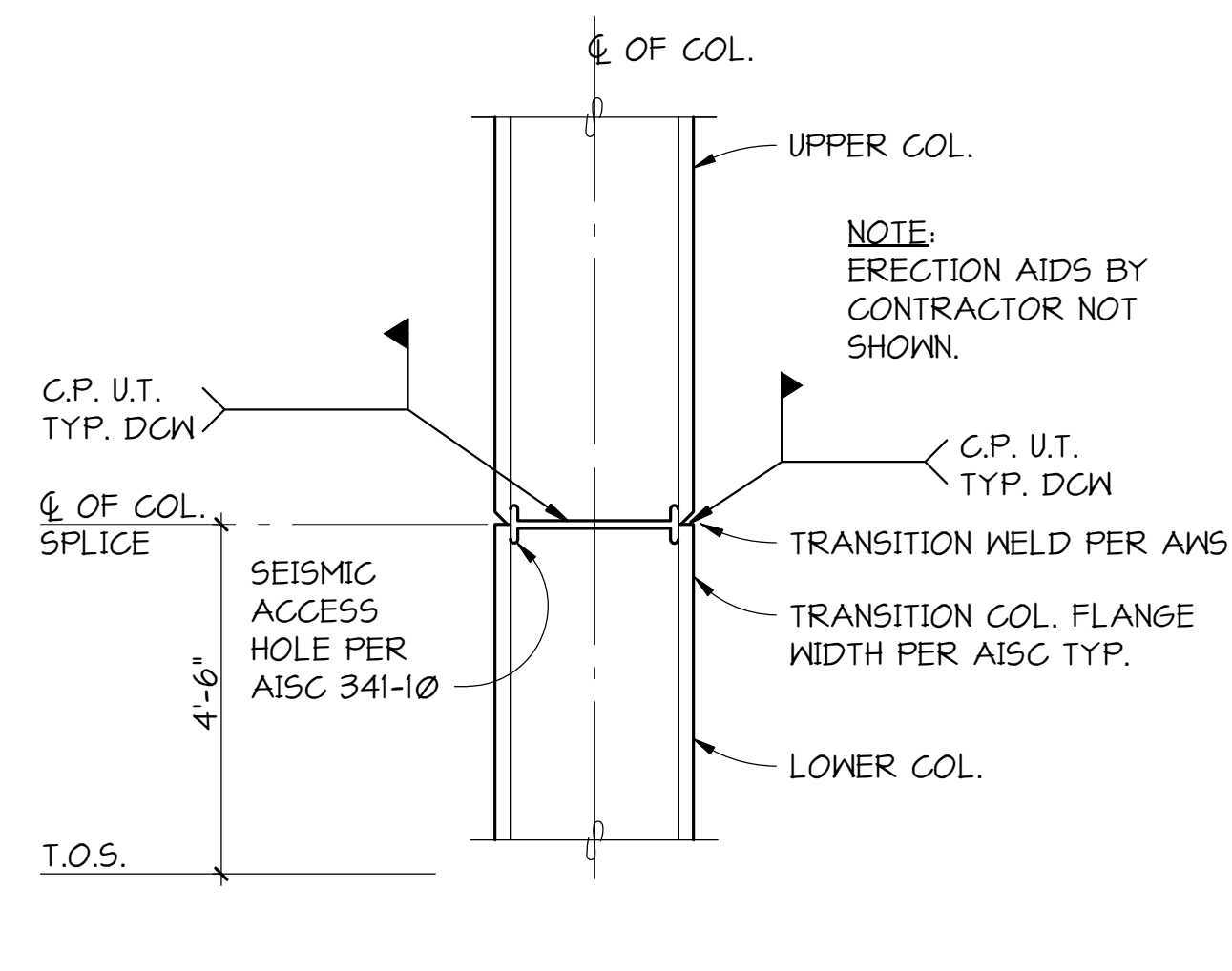




SECTION 1  
 55.6 NO SCALE  
 TYPICAL BUCKLING RESTRAINED BRACE BEAM-COLUMN-BRACE CONNECTION



SECTION 2  
 55.6 NO SCALE  
 BUCKLING RESTRAINED BRACE PROTECTED ZONE



DETAIL 3  
 55.6 1" = 1'-0"  
 TYPICAL COLUMN SPLICE AT BRACED FRAMES

- NOTES:
1. FOR BUCKLING RESTRAINED BRACE CONNECTION SCHEDULE SEE 4/55.5.
  2. ERECTION AIDS AND SHIMS NOT SHOWN - COORDINATE WITH BUCKLING RESTRAINED BRACE MANUFACTURER.
  3. COORDINATE ALL DIMENSIONS WITH BUCKLING RESTRAINED BRACE MANUFACTURER PRIOR TO FABRICATION.

- NOTES:
1. SHADED REGIONS INDICATE PROTECTED ZONES.
  2. WELDED, BOLTED, SCREWED, OR SHOT IN ATTACHMENTS ARE PROHIBITED WITHIN THE SHADED REGION DEFINED IN THIS DETAIL.
  3. ANY OTHER CONNECTIONS TO THE BRACE ARE TO BE APPROVED BY THE ENGINEER OF RECORD AND THE BUCKLING RESTRAINED BRACE MANUFACTURER.
  4. GENERAL CONTRACTOR TO DESIGN AND PROVIDE SUPPORTS AS REQUIRED TO AVOID PROTECTED ZONES.
  5. GENERAL CONTRACTOR COORDINATE WITH BRB MANUFACTURER TO VERIFY PROTECTED ZONE AREA.

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**S WHIDBEY PKS & REC AQUATIC REC CENTER**  
 PID 812720 MAXWELTON RD  
 LANGLEY, WA 98260



100% DESIGN DEVELOPMENT

ISSUE DATE: DECEMBER 01, 2023

REVISION SCHEDULE		
Rev #	Date	Description

CONTENTS:  
**STEEL BRACED FRAME DETAILS**

SCALE: As Indicated  
 DRAWN: DEH  
 CHECKED: CAJ  
 PROJECT NO: 2022021.000

SHEET  
**S5.6**







NOTE: PROVIDE LOAD BEARING SHIMS OR GROUT BETWEEN UNDERSIDE OF WALL BOTTOM TRACK OR RIM TRACK AND SUPPORT BELOW AT STUD OR JOIST LOCATION WHERE GAP GREATER THAN 1/4" OCCURS.

P.A.F. @ 16" O.C. MAX. (EMBED 1/2" MIN.) (NOT ALLOWED AT SHEAR WALLS) OR 5/8" A.B. @ 32" O.C. MAX. (SPACING PER SHEAR WALL SCHED. WHERE OCCURS) (EMBED 7" MIN.) - W/ 3"x3"x1/4" P. WASHER

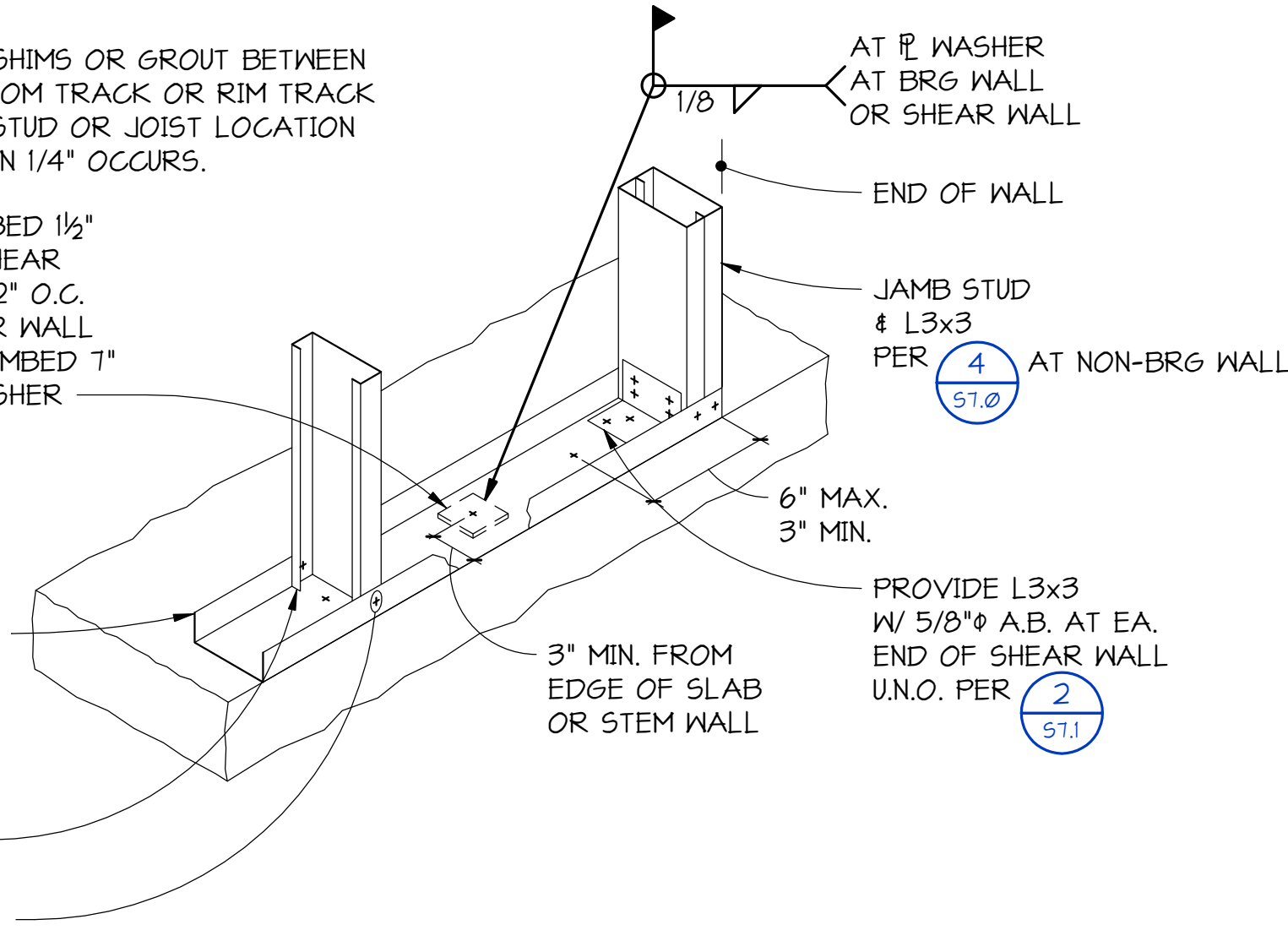
43MIL MIN. TRACK OR MATCH STUD THICKNESS WHICHEVER IS GREATER - MIN. FLANGE WIDTH = 1/4"

STUD ENDS MUST BEAR ON TRACK WEB - 1/16" GAP MAX. AT BRG WALL - 1/8" MAX. AT NON-BRG WALL

#8 SCREW EA. STUD - TYP.

TYPICAL COLD-FORMED STEEL STUD AND TRACK ATTACHMENT

1 DETAIL  
S7.1 NO SCALE



NOTE: PROVIDE LOAD BEARING SHIMS OR GROUT BETWEEN UNDERSIDE OF WALL BOTTOM TRACK OR RIM TRACK AND SUPPORT BELOW AT STUD OR JOIST LOCATION WHERE GAP GREATER THAN 1/4" OCCURS.

L3x EA. SIDE OF JAMB STUD FOR ALL PENETRATION WIDTHS

5/8" A.B. - EMBED 7"

AT CONTRACTOR'S OPTION UNLESS NOTED OTHERWISE ALTERNATE JAMB ATTACHMENT AT FOUNDATION WALL

WALL PENETRATION

ADD'L L3x AT WALL PENETRATION OVER 6"-0" WIDE & AT ALT. ATTACHMENT FOR ALL PENETRATION WIDTHS - TYP.

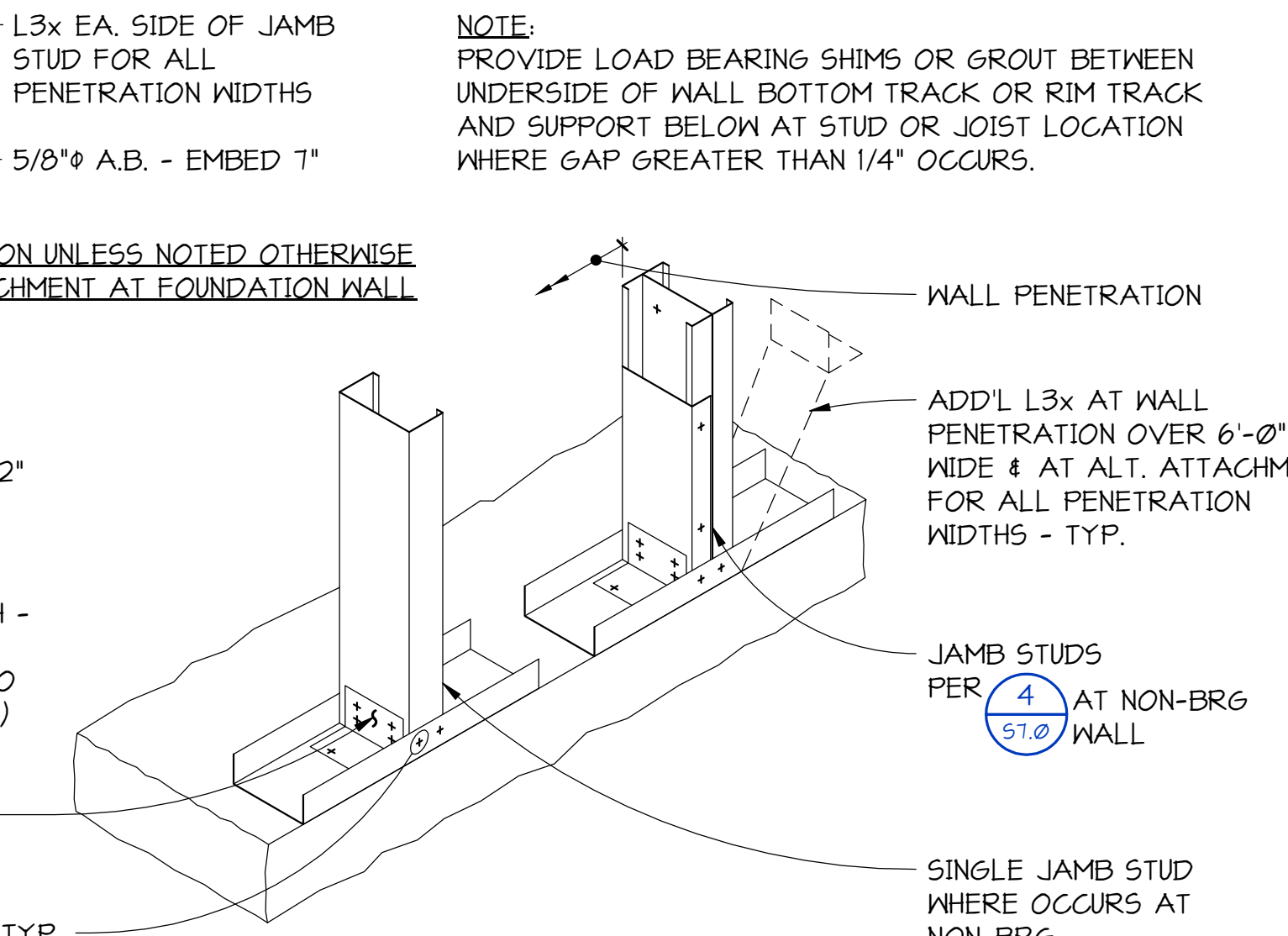
JAMB STUDS PER (4) AT NON-BRG WALL

SINGLE JAMB STUD WHERE OCCURS AT NON-BRG

#8 SCREW EA. STUD - TYP.

TYPICAL COLD-FORMED STEEL JAMB STUD ATTACHMENT

2 DETAIL  
S7.1 NO SCALE



NOTE: TYPICAL MINIMUM EDGE DISTANCE = 3 TIMES SCREW DIAMETER

(2) #8 SCREWS TO CHANNEL & STUD

1/2" x 1/2" x (d)-1/2" CLIP ANGLE - (1) THICKNESS HEAVIER THAN STUD OR 54MIL MIN.

TRACK BLOCK PIECE TO MATCH WALL STUD CLIP FLANGE & BEND - INSTALL 96" O.C. MAX. - ALL STRAPS SHALL BE CONNECTED TO AT LEAST (1) BLOCK - PROVIDE ADD'L BLOCK EA. SIDE AT DISCONTINUOUS STRAP

WELDED ANGLE

SCREWED ANGLE

PROVIDE BRIDGING @ 48" O.C. VERT. MAX.

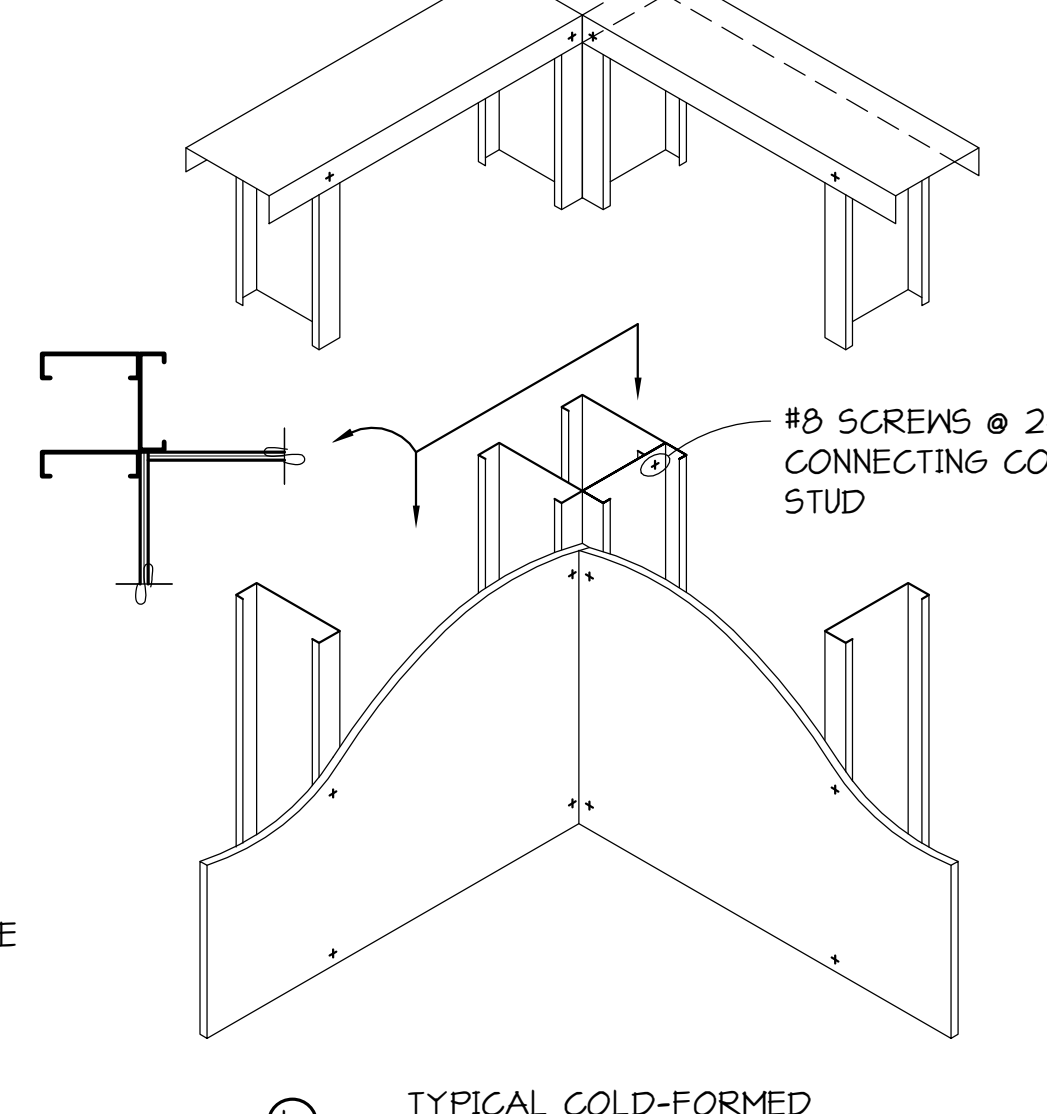
150/50-54 COLD-ROLLED CHANNEL - OPTIONAL SPLICE AT CLIP

CLIP ANGLE - PROVIDE DEL. CLIP ANGLE (1) EA. SIDE AT BU. STUDS

OPTION 1. BRIDGING CONSISTS OF DOUBLE FLAT STRAP WITH BLOCKING

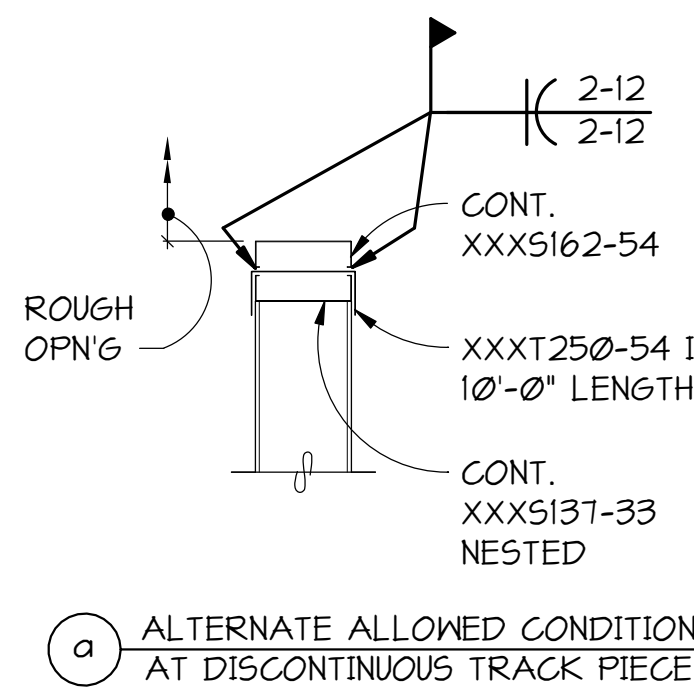
OPTION 2. BRIDGING CONSISTS OF COLD-ROLLED CHANNEL WITH CLIP ANGLE (6" MAXIMUM STUD SIZE)

3 DETAIL  
S7.1 NO SCALE



TYPICAL COLD-FORMED STEEL BOTTOM/TOP TRACK SPLICE

TYPICAL COLD-FORMED STEEL WALL CORNER



8"-0" MAX. PENETRATION AT 4" OR 3 3/8" WALL - 15"-4" MAX. PENETRATION AT 6" & 8" WALL

CONT. XXXT250-54 - TYP.

#8 SCREW - TYP.

NESTED XXXS137-33 TYP. UNO. (OMIT AT 6" & 8" WALL W/ PENETRATION 8"-0" MAX.)

#8 SCREW @ 8" O.C. - TYP.

C.F.S. STUD

NOTE: SILL TRACK AND STUD SHALL BE CONTINUOUS - NO SPLICES ALLOWED.

JAMB PER (4) AT NON-BRG WALL

CLIP FLANGE & BEND TRACK W/ (6) #10 SCREWS TO JAMB OR L2x2x54 MIL. x1/2" LESS THAN STUD WIDTH W/ (6) #10 SCREWS EA. LEG

6" LONG GRIPPLE STUD TO MATCH TYP. WALL STUD SIZE W/ (4) #8 SCREWS TO JAMB

OPTION 1. BRIDGING CONSISTS OF DOUBLE FLAT STRAP WITH BLOCKING

OPTION 2. BRIDGING CONSISTS OF COLD-ROLLED CHANNEL WITH CLIP ANGLE (6" MAXIMUM STUD SIZE)

OPTION 3. BRIDGING CONSISTS OF SINGLE FLAT STRAP WITH BLOCK AND FULL HEIGHT SHEATHING OPPOSITE FACE

OPTION 4. FULL HEIGHT SHEATHING EACH FACE

FASTEN W/ #6 SCREW MIN. @ 12" O.C. MAX. - TYP.

PROVIDE BRIDGING @ QUARTER-POINTS AND PANEL JOINTS - NOT TO EXCEED 48" O.C. VERT. MAX.

TAUT 33 MIL x 1/2" CONT. STRAP

SCREW ATTACHMENT - (4) #8 SCREWS MIN. EA. SIDE

C.F.S. STUD

CLIP ANGLE - PROVIDE DEL. CLIP ANGLE (1) EA. SIDE AT BU. STUDS

150/50-54 COLD-ROLLED CHANNEL - OPTIONAL SPLICE AT CLIP

WELDED ANGLE

SCREWED ANGLE

PROVIDE BRIDGING @ 48" O.C. VERT. MAX.

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TAUT 33 MIL x 1/2" CONT. STRAP

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WELDED ANGLE

SCREWED ANGLE

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SCREWED ANGLE

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WELDED ANGLE

SCREWED ANGLE

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TAUT 33 MIL x 1/2" CONT. STRAP

SCREW ATTACHMENT - (4) #8 SCREWS MIN. EA. SIDE

C.F.S. STUD

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150/50-54 COLD-ROLLED CHANNEL - OPTIONAL SPLICE AT CLIP

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SCREWED ANGLE

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TAUT 33 MIL x 1/2" CONT. STRAP

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C.F.S. STUD

CLIP ANGLE - PROVIDE DEL. CLIP ANGLE (1) EA. SIDE AT BU. STUDS

150/50-54 COLD-ROLLED CHANNEL - OPTIONAL SPLICE AT CLIP

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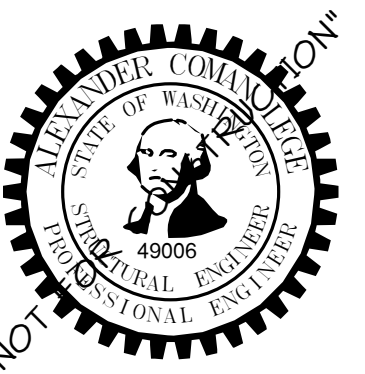
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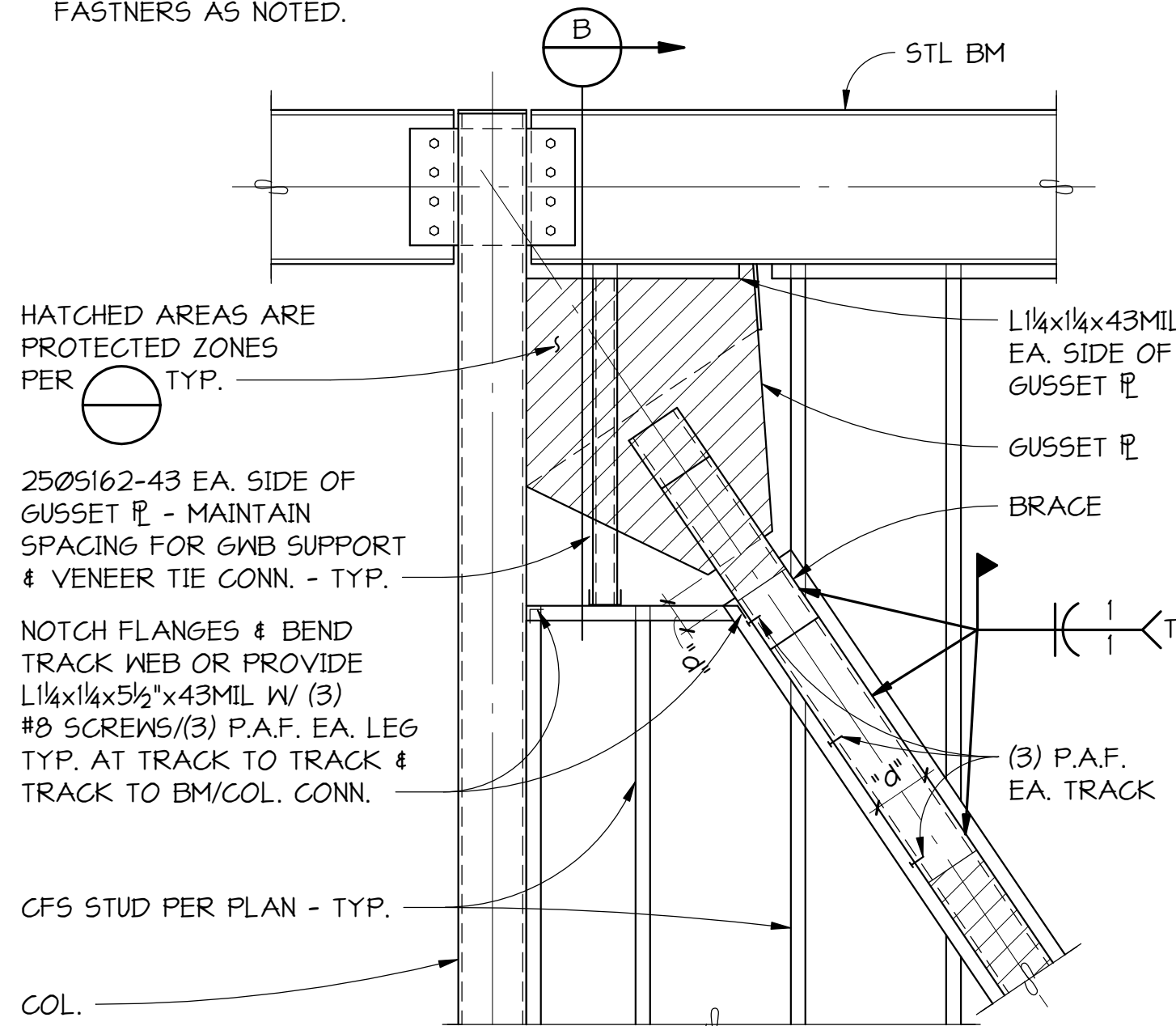


REVISION SCHEDULE		
Rev #	Date	Description

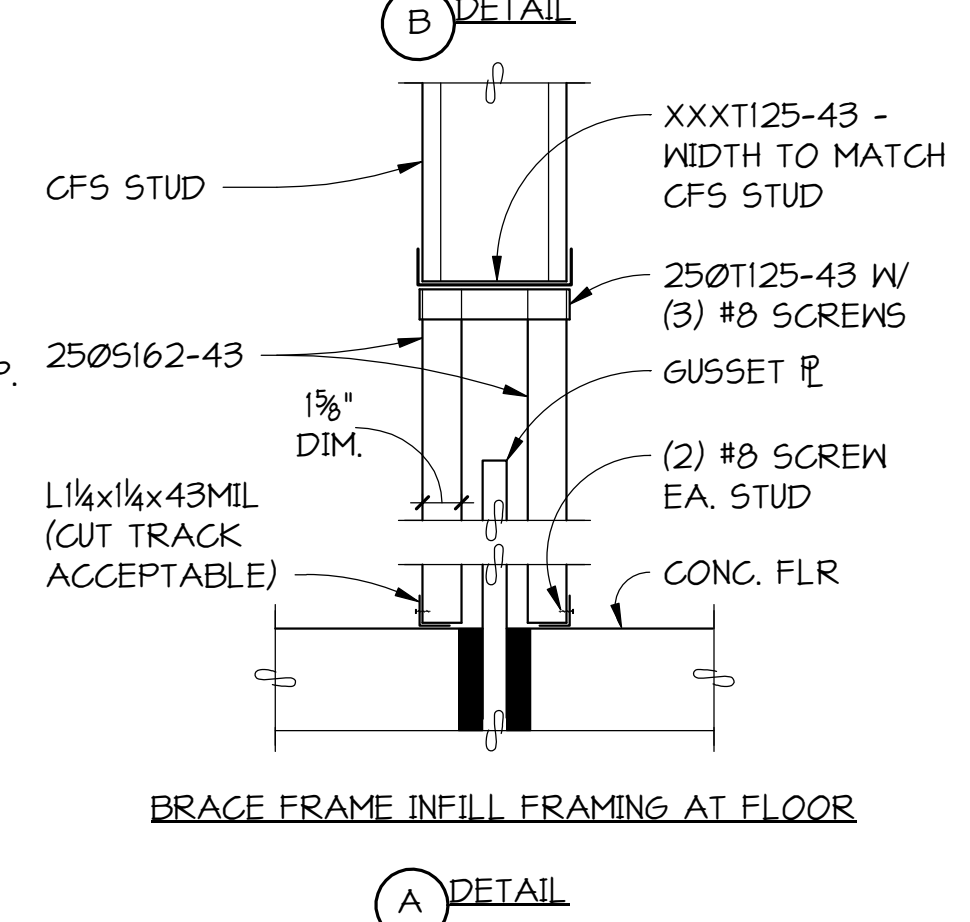
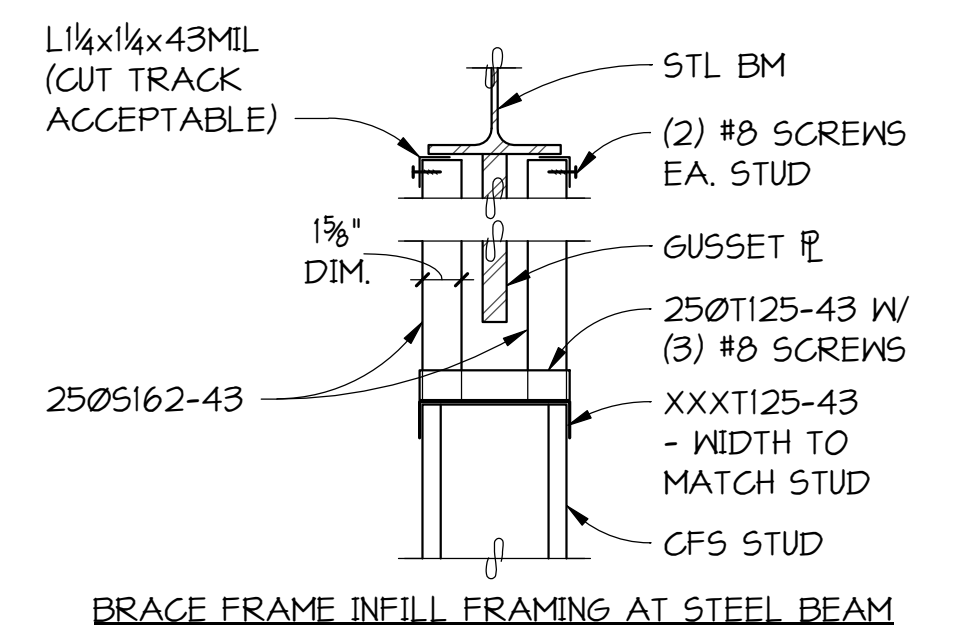
**TYPICAL COLD-FORMED STEEL FRAMING DETAILS**

SCALE:	As Indicated
DRAWN:	SMS
CHECKED:	CAJ
PROJECT NO.:	2022021.000

- NOTES:**
1. DETAIL SHOWS TOP CONDITION - BASE SIMILAR.
  2. FOR TYPICAL WALL FRAMING DETAILS - SEE S7.0, S7.1, AND S7.2.
  3. NO POWDER ACTUATED FASTENERS, SCREWS OR WELDING PERMITTED AT BRACE OR GUSSET IN PROTECTED (HATCHED) AREAS PER XX/SX.XX.
  4. ATTACH TRACK TO BRACE WITH WELDS OR POWDER ACTUATED FASTENERS IN NON-PROTECTED ZONES ONLY. USE EITHER WELD OR POWDER ACTUATED FASTENERS AS NOTED.



**1 SECTION**  
S7.2 NO SCALE

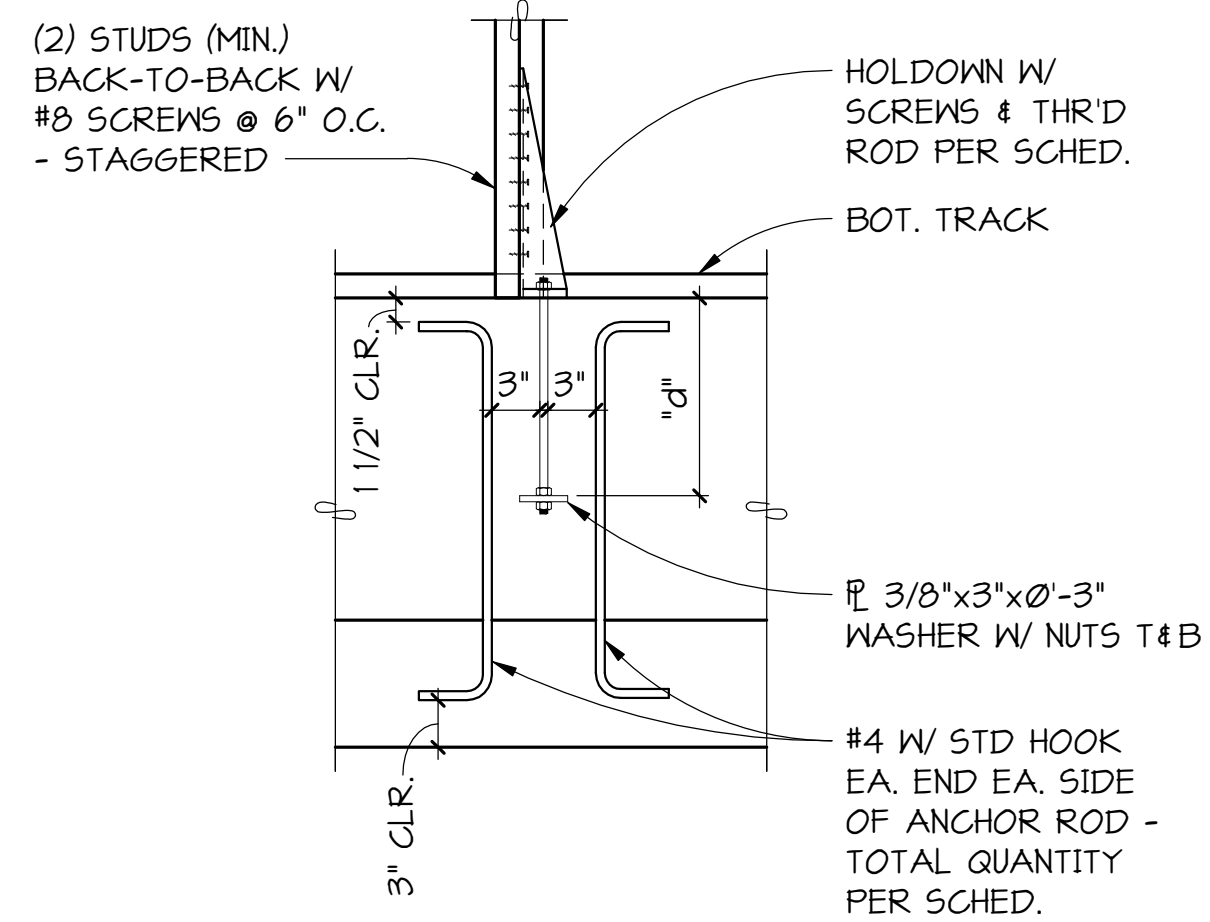


**TYPICAL HOLDOWNS**

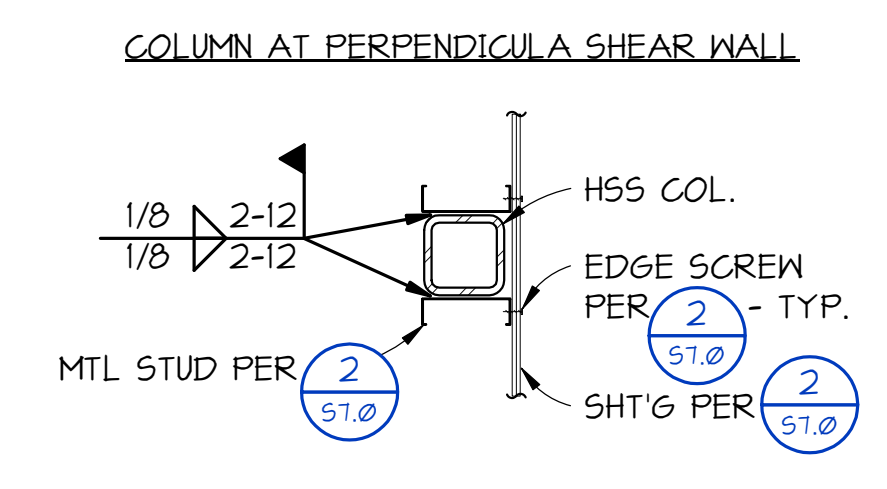
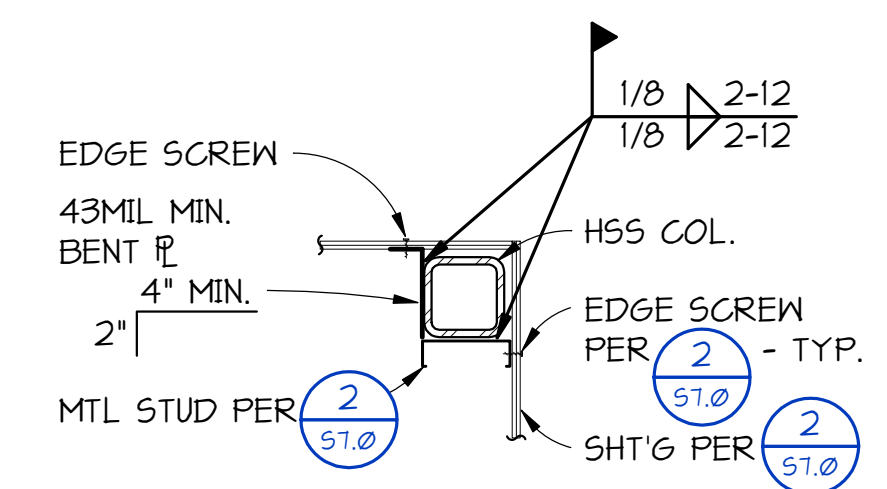
SIZE	SCREWS/BOLTS	THREADED ROD	"d"	MIN. STUD THICKNESS
S/HDB5	(1) #14	7/8"φ	1'-3"	43 MIL
S/HDI05	(2) #14	7/8"φ	1'-3"	43 MIL
S/HDI55	(3) #14	1"φ	1'-3"	43 MIL
S/HDB8	(2) 3/4"φ	7/8"φ	1'-3"	54 MIL
S/HDI08	(3) 3/4"φ	7/8"φ	1'-3"	54 MIL
S/HDI58	(4) 3/4"φ	1"φ	1'-3"	54 MIL

- NOTES:**
1. SEE FOUNDATION PLANS FOR HOLDOWN LOCATIONS.
  2. ALL HOLDOWNS NOT OCCURRING AT WALL CORNER SHALL BE LOCATED AT THE EDGE OF A WINDOW OR A DOOR. EDGE SCREW EACH HOLDOWN STUD.
  3. STEP FOOTINGS AS REQUIRED TO MEET EMBEDMENT REQUIREMENTS PER 1/53.1.

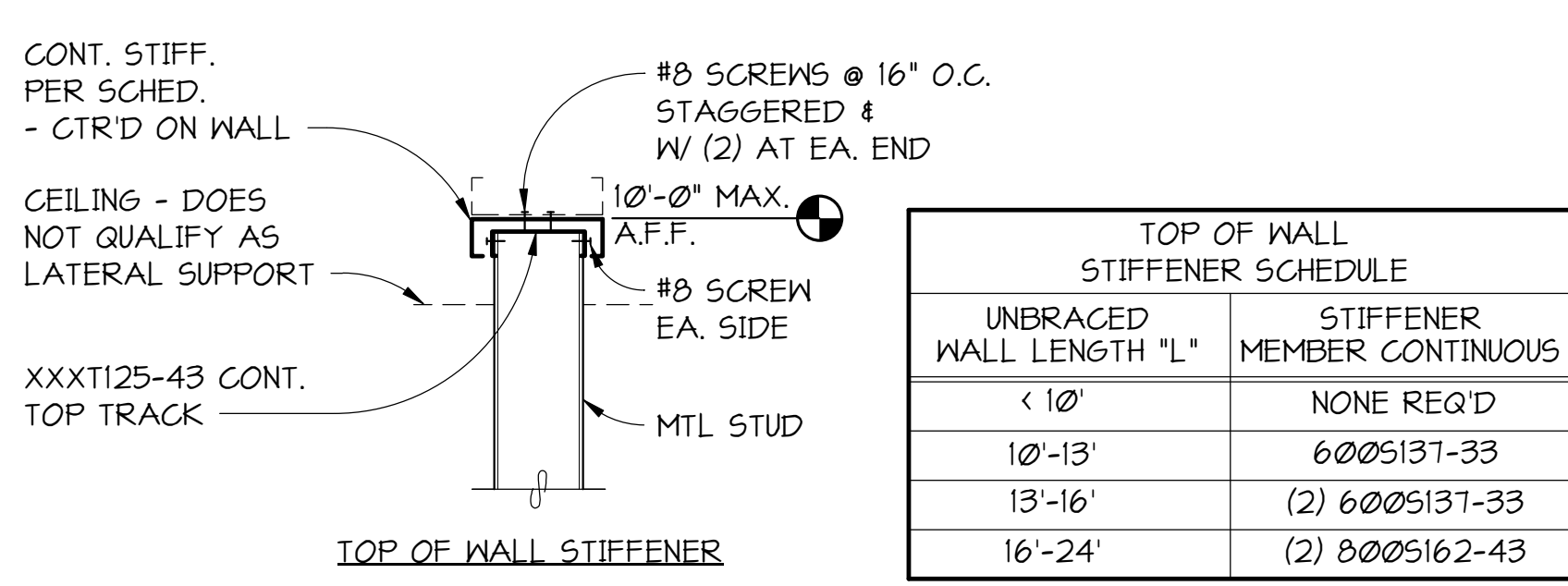
**2 DETAIL**  
S7.2 NO SCALE



**TYPICAL FOUNDATION ANCHOR ROD HOLDOWN**

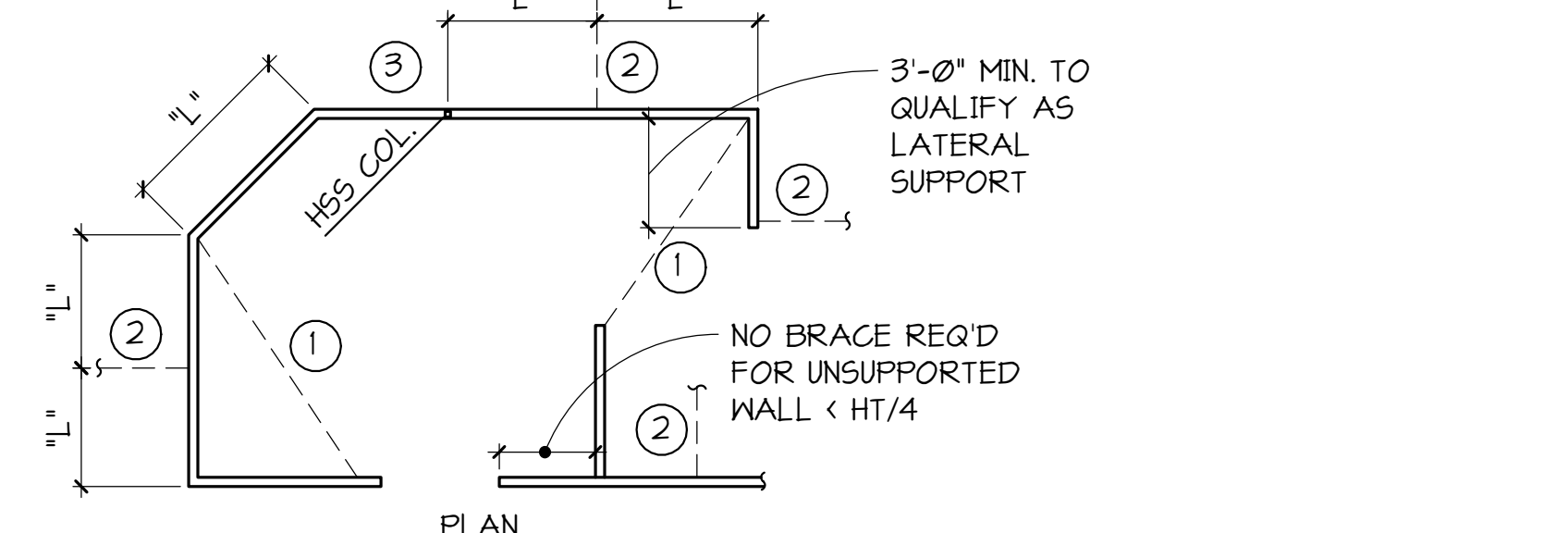


**3 DETAIL**  
S7.2 NO SCALE



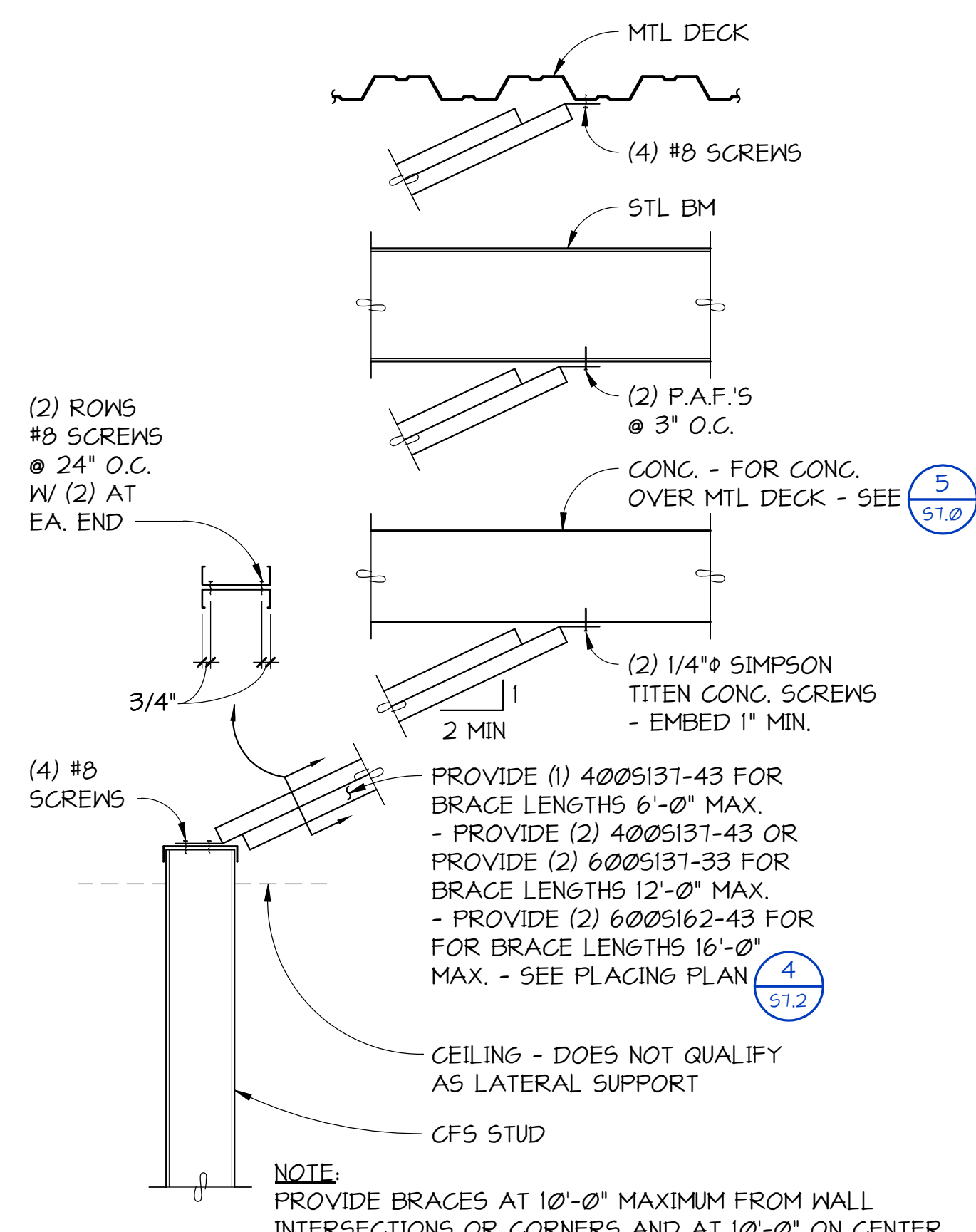
**TOP OF WALL STIFFENER SCHEDULE**

UNBRACED WALL LENGTH "L"	STIFFENER MEMBER CONTINUOUS
< 10'	NONE REQ'D
10'-13'	600S131-33
13'-16'	(2) 600S131-33
16'-24'	(2) 800S162-43

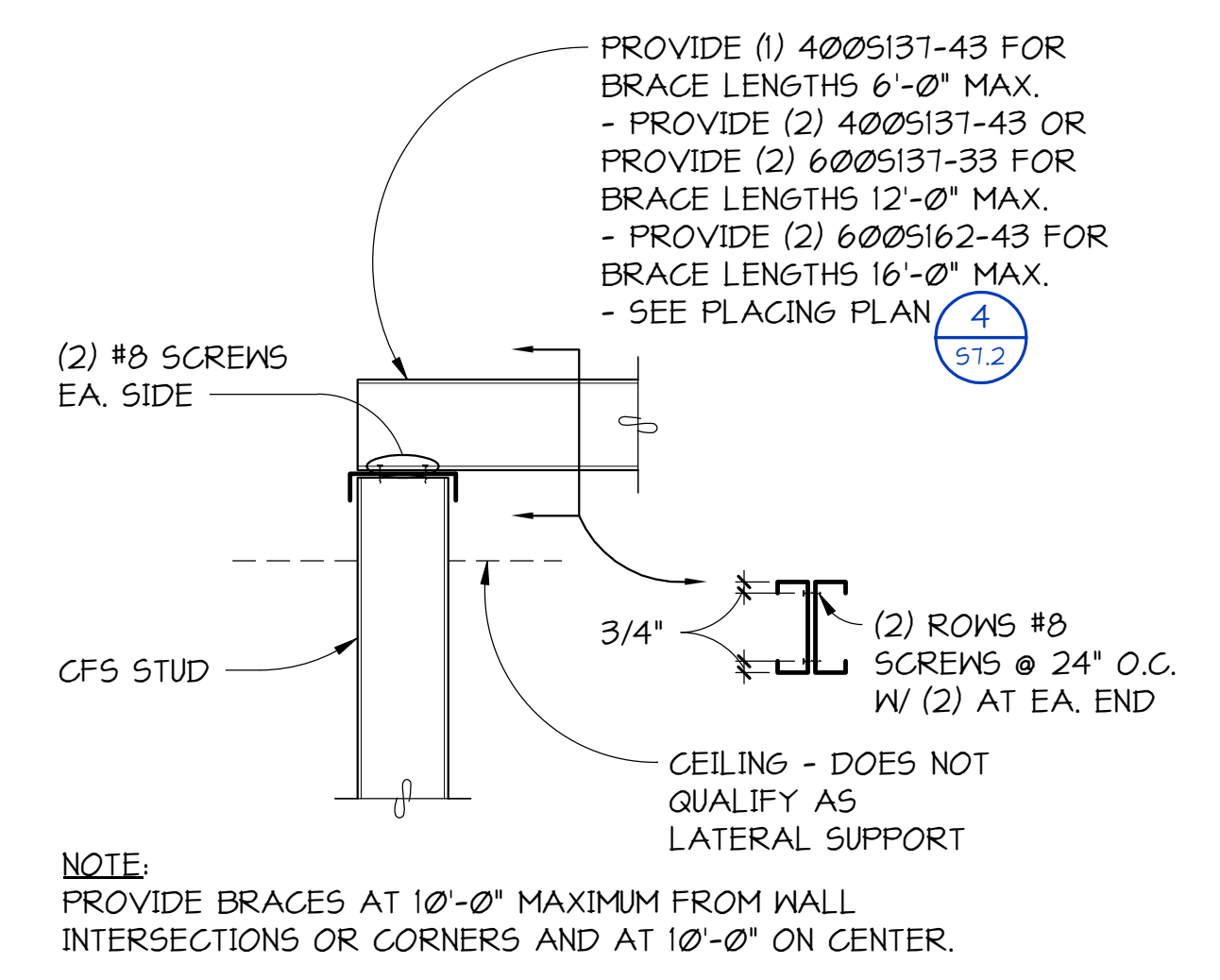


- NOTES:**
1. THIS PLAN IS AN EXAMPLE ONLY. IT DOES NOT REPRESENT A SPECIFIC WALL.
  2. "L" INDICATES UNBRACED LENGTH OF WALLS - SEE SCHEDULE FOR TOP OF WALL STIFFENER SIZE.
  3. AT CONTRACTOR'S OPTION, IN LIEU OF TOP OF WALL STIFFENER:
    - INDICATES HORIZONTAL BRACE EXTENDING TO ADJACENT CORNER - SEE 6/51.2.
    - INDICATES BRACE UP TO STRUCTURE - SEE 5/51.2.
    - INDICATES WALL BRACED AT HOLLOW STRUCTURAL SECTION COLUMN - PROVIDE L2"x2"x1/2" LESS THAN STUD WIDTH x54MIL WITH (4) #8 SCREWS TO TOP TRACK. - WELD CONNECTION ANGLE TO HOLLOW STRUCTURAL SECTION COLUMN OR PROVIDE (4) POWDER ACTUATED FASTENERS AT CONTRACTOR'S OPTION.
  4. ALL TOP TRACK SPLICES SHALL BE AT BRACE LOCATIONS.

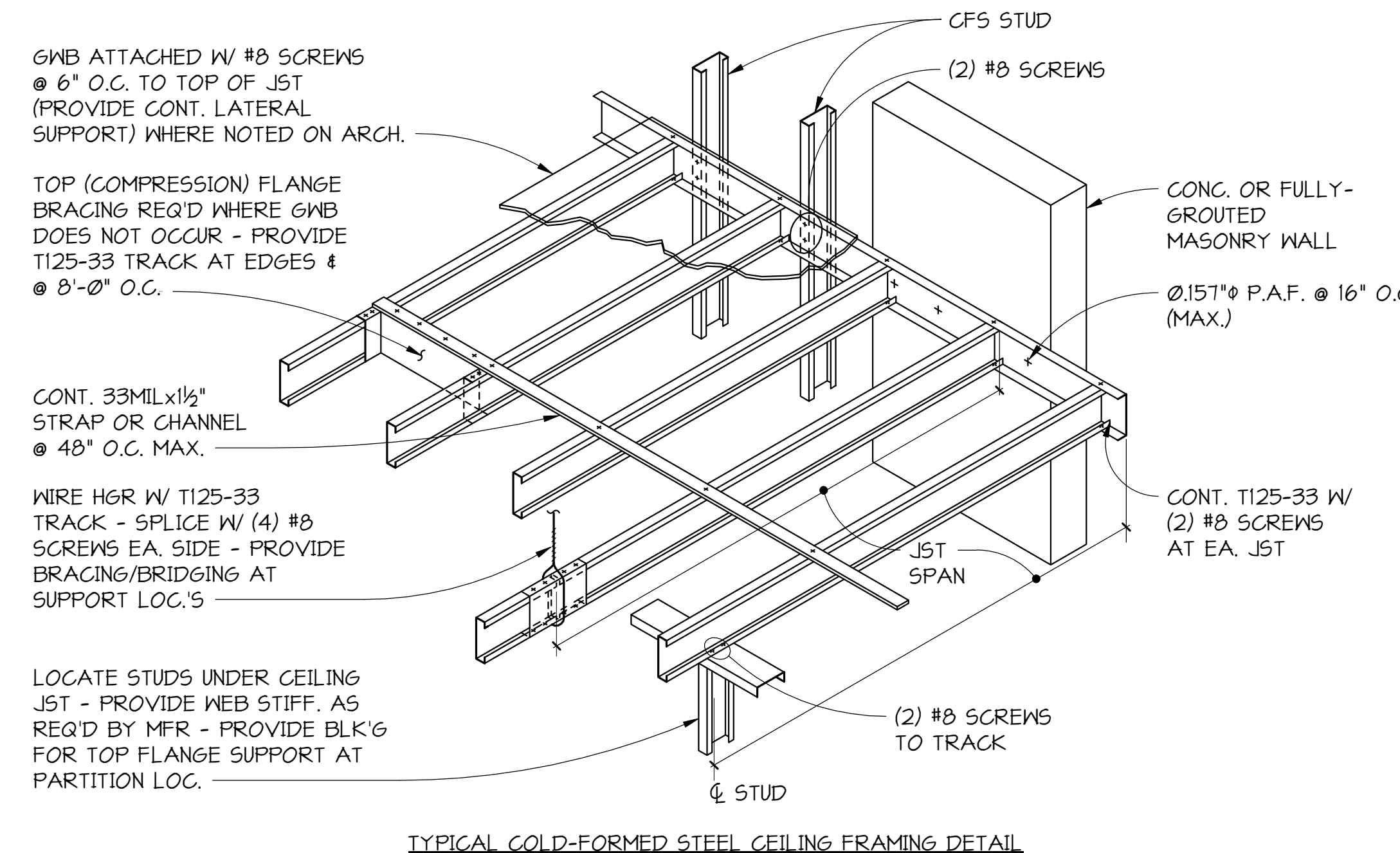
**4 DETAIL**  
S7.2 NO SCALE



**5 DETAIL**  
S7.2 NO SCALE



**6 DETAIL**  
S7.2 NO SCALE



**COLD-FORMED STEEL JOIST CEILING FRAMING SCHEDULE 10 POUNDS PER SQUARE FOOT (ASD) LIVE LOAD, 1/240 DEFLECTION LIMIT, (2) LAYERS MAXIMUM OF 5/8" GYPSUM WALL BOARD**

JOIST SIZE	STUD MIL											
	18MIL						33MIL					
	JOIST SPACING											
	12" O.C.	16" O.C.	24" O.C.	12" O.C.	16" O.C.	24" O.C.	12" O.C.	16" O.C.	24" O.C.	12" O.C.	16" O.C.	24" O.C.
	NUMBER OF CONTINUOUS SPANS											
	ONE	TWO+	ONE	TWO+	ONE	TWO+	ONE	TWO+	ONE	TWO+	ONE	TWO+
	MAXIMUM JOIST SPAN ALLOWED											
2505	6'-9"	6'-11"	5'-4"	5'-9"	-	4'-4"	8'-3"	10'-0"	7'-6"	8'-9"	6'-4"	7'-1"
3625	7'-3"	6'-8"	5'-5"	5'-3"	-	-	11'-0"	13'-3"	10'-0"	11'-6"	8'-4"	9'-4"
4005	9'-0"	6'-3"	7'-6"	4'-10"	5'-0"	-	11'-11"	14'-3"	10'-10"	12'-4"	9'-0"	9'-9"
6005	-	-	-	-	-	-	16'-6"	16'-10"	14'-9"	13'-10"	12'-0"	10'-2"

- NOTES:**
1. BRACE TOP FLANGE AT 48" ON CENTER MAXIMUM.
  2. INFORMATION SHOWN TAKEN FROM THE GYPSUM CONSTRUCTION HANDBOOK BY CGC INCORPORATED.
  3. SEE ARCHITECTURAL DRAWING FOR LATERAL SUPPORT OF SUSPENDED FRAMING.

**7 DETAIL**  
S7.2 NO SCALE

















DUCT SILENCER SCHEDULE															
SYMBOL	UNIT SERVED	BASIS OF DESIGN		LOCATION	TOTAL CFM	APD (IN H2O)	FACE VELOCITY (FPM)	MINIMUM DYNAMIC INSERTION LOSS (DB) OCTAVE BAND MID-FREQUENCY HZ						APPROX. DIMS (LxWxH)	NOTES
		MFR	MODEL					63	125	250	500	1K	2K		
DS	DHU-1	VIBRO ACOUSTIC		SUPPLY	33000	0.04	854								1
DS	DHU-1	VIBRO ACOUSTIC		RETURN	33000	0.04	854								1
DS	RTU-2	VIBRO ACOUSTIC		SUPPLY											
DS	RTU-2	VIBRO ACOUSTIC		RETURN											
DS	RTU-3	VIBRO ACOUSTIC		SUPPLY											
DS	RTU-3	VIBRO ACOUSTIC		RETURN											
DS	RTU-4	VIBRO ACOUSTIC		SUPPLY											
DS	RTU-4	VIBRO ACOUSTIC		RETURN											
DS	RTU-5	VIBRO ACOUSTIC		SUPPLY											
DS	RTU-5	VIBRO ACOUSTIC		RETURN											
DS	EF-5	VIBRO ACOUSTIC		OUTLET	3000										
DS	EF-5	VIBRO ACOUSTIC		INLET	3000										

NOTES:  
 1 FILM LINED  
 2

DUCT MATERIAL SCHEDULE									
SHEET METAL DUCT					NONMETAL DUCT				
UNREINFORCED MINIMUM WALL THICKNESS (GAGE)									
DUCT DIMENSION (INCHES)	PRESSURE CLASS (IN W.G.)								
	POSITIVE OR NEGATIVE								
8 AND BELOW	1/2	1	2	3	4	6	10	INSULATED FLEXIBLE DUCT: IMPERVIOUS VINYL OR CHLORINATED POLYETHYLENE, PERMANENTLY BONDED VINYL OR ZINC-COATED SPRING STEEL HELIX, FIBERGLASS BLANKET INSULATION, VINYL OR FIBERGLASS ASTM CROSS-REINFORCED METALIZED VAPOR BARRIER, UL 181 LISTED CLASS 1, ASTM C335, ASTM E84.	
	26	26	26	24	24	24	22	FIBERGLASS REINFORCED DUCT: RESIN-BONDED FIBERGLASS, CORROSION LINER RESIN SATURATED WITH GLASS CONTENT, EXTERIOR RESIN SMOOTH SURFACE, ASTM-E-84	
	26	26	26	24	22	20	18	FABRIC DUCT: PERMEABLE FABRIC, PRE-INSTALLED RIBS, STAINLESS STEEL HARDWARE FOR POOL ENVIRONMENT	
	26	26	24	22	20	18	16	LOCATION OF APPLICATION: 1. INSULATED FLEXIBLE DUCT: A. CONNECTIONS TO AIR DEVICES EXCEPT AT POOL RETURN OR EXPOSED DUCT AREAS. ONLY AT LAST 9FT OF DUCT CONNECTION TO SUPPLY OR RELIEF AIR DEVICES WHERE DUCT IS CONCEALED ABOVE CEILINGS.	
	26	24	22	20	18	16	2. FIBERGLASS REINFORCED DUCT: A. DUCTS ASSOCIATED WITH FIBERGLASS REINFORCED PLASTIC EXHAUST FANS		
	26	22	20	18	16	3. FABRIC DUCT: A. POOL AREA SUPPLY DUCT			
	24	20	18	16	REINFORCEMENT IS REQUIRED				
	22	18	16	16					
	22	18	16	16					
	20	18							
18	16								
18	16								
16									

BASED ON TABLE 1-24 SMACNA  
 GALVANIZED STEEL DUCTS: HOT-DIPPED GALVANIZED STEEL SHEET, LOCK-FORMING QUALITY, ASTM A 653/A 653M FS TYPE B, WITH G90/Z275 COATING.  
 ALUMINUM DUCTS: ASTM B 209 (ASTM B 209M); ALUMINUM SHEET, ALLOY 3003-H14.  
 STAINLESS STEEL - FABRICATED IN ACCORDANCE WITH ASTM A167 AND A480.  
 LOCATION OF APPLICATION:  
 1. STAINLESS STEEL WELDED:  
 A. SUPPLY DUCT FROM DHU-1 OUTLET TO PENETRATION INTO POOL AREA.  
 2. ALUMINUM:  
 A. RETURN DUCT FROM POOL AREA TO DHU-1 INLET CONNECTION.  
 B. EXHAUST DUCT FROM POOL AREA TO WALL EXHAUST LOUVER  
 C. ALL SUPPLY AND RETURN DUCT LOCATED IN LOCKER ROOM ZONE INCLUDING LIFE GUARD  
 AQUATICS DIRECTOR AREAS, AND MULTIPURPOSE AREAS CONNECTED WITH ACCESS TO POOL AREA  
 3. GALVANIZED STEEL:  
 A. ALL DUCT AT FITNESS, MEETING ROOM, AND PARKS OFFICES

DUCT INSULATION SCHEDULE		
DESCRIPTION/SERVICE	INSULATION	COMMENTS
SUPPLY DUCT EXTERIOR	WRAPPED	ALUMINUM JACKETED
SUPPLY/RETURN/EXHAUST WITHIN 20FT OF CONNECTED EQUIPMENT	LINED	-
SUPPLY DUCT INTERIOR CONCEALED	LINED	-
RETURN/EXHAUST DUCT INTERIOR CONCEALED	LINED (EXCEPT AT POOL AND LOCKER ROOM EXHAUST - WRAPPED)	-
RETURN/EXHAUST DUCT INTERIOR EXPOSED	NONE	-

NOTE: REFER TO SPECIFICATIONS FOR FULL REQUIREMENTS AND ALTERNATE BID OPTIONS.

PIPE MATERIAL SCHEDULE					
DESCRIPTION/SERVICE	NOMINAL DIAMETER	MATERIAL	PIPING STANDARD	JOINTS/FITTINGS	COMMENTS
REFRIGERANT LIQUID, REFRIGERANT SUCTION	1" AND ABOVE	COPPER TUBE	ASTM B280, TYPE ACR	JOINTS: BRASSED; FITTINGS: ASME B16.22 (WROUGHT COPPER)	INSULATED
	5/8" AND BELOW	COPPER TUBE	ASTM B280, TYPE ACR	JOINTS: FLARED; FITTINGS: ASME B16.26 (CAST COPPER)	INSULATED
HEATING WATER LOOP	6" AND BELOW	POLYPROPYLENE RANDOM (PPR)	AquaTherm Blue Pipe, SDR 11 standard dimension ratio.	Heat fusion connections with corrosion resistant properties.	Valves: Polypropylene. Accessories and insert wells, stainless steel.
CONNECTION AT PLATE HEAT EXCHANGERS WITHIN FIRST 24"	6" AND BELOW	TYPE 316L STAINLESS STEEL PIPE	ASTM A-312/ASME SA-312	WROUGHT ANSI B16.9 OR ANSI B16.28, WELDED	

NOTE: REFER TO SPECIFICATIONS FOR FULL REQUIREMENTS AND ALTERNATE BID OPTIONS.  
 HVAC PIPE SYSTEMS COVER PIPE SIZE 6" DIAMETER AND BELOW

PIPE INSULATION SCHEDULE		
DESCRIPTION/SERVICE	INSULATION	COMMENTS
REFRIGERANT PIPE	FLEXIBLE ELASTOMERIC	ALUMINUM JACKETING EXTERIOR PIPE AT ROOF (BOTH SUCTION AND DISCHARGE)
HEATING	GLASS WOOL	PAINTED EXPOSED, ALUMINUM EXTERIOR PIPE AT ROOF

NOTE: REFER TO SPECIFICATIONS FOR FULL REQUIREMENTS AND ALTERNATE BID OPTIONS.

**S WHIDBEY PKS & REC  
 AQUATIC REC CENTER**  
 PID 812720 MAXWELTON RD  
 LANGLEY, WA 98260



**100% DESIGN  
 DEVELOPMENT**

ISSUE DATE: DEC 01, 2023

REVISION SCHEDULE		
Rev #	Date	Description

CONTENTS:  
**SCHEDULES -  
 MECHANICAL**

SCALE: 12" = 1'-0"  
 DRAWN: QB  
 CHECKED: TL  
 PROJECT NO: 2022021.000

SHEET:  
**M0.4**









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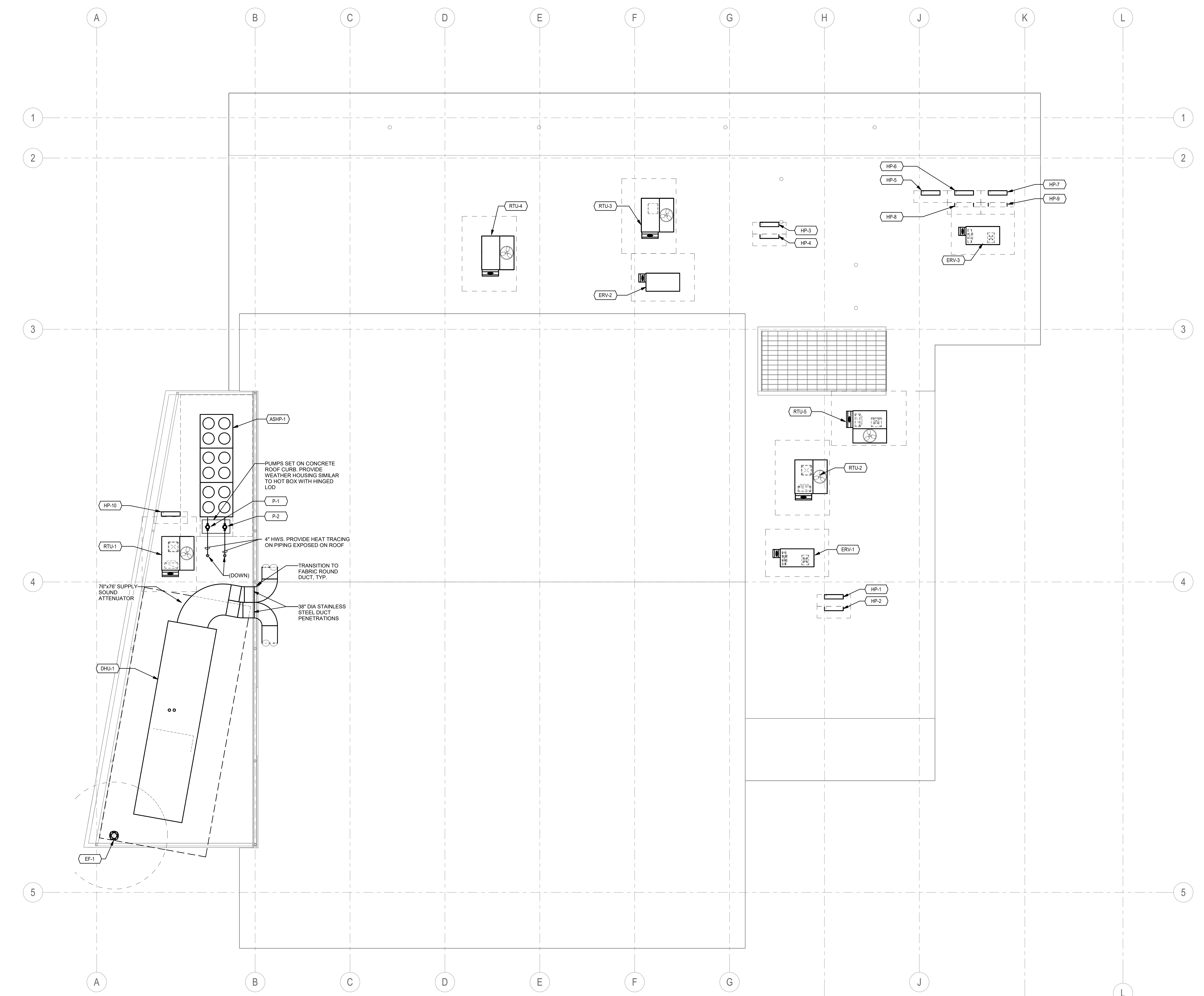
ISSUE DATE: DEC 01, 2023

REVISION SCHEDULE		
Rev #	Date	Description

CONTENTS:  
**ROOF PLAN -  
 MECHANICAL**

SCALE: 1/8" = 1'-0"  
 DRAWN: QB  
 CHECKED: TL  
 PROJECT NO: 2022021.000

SHEET:  
**M2.3**



**1 ROOF MECHANICAL PLAN - OVERALL**  
 1/8" = 1'-0"





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 DEVELOPMENT**

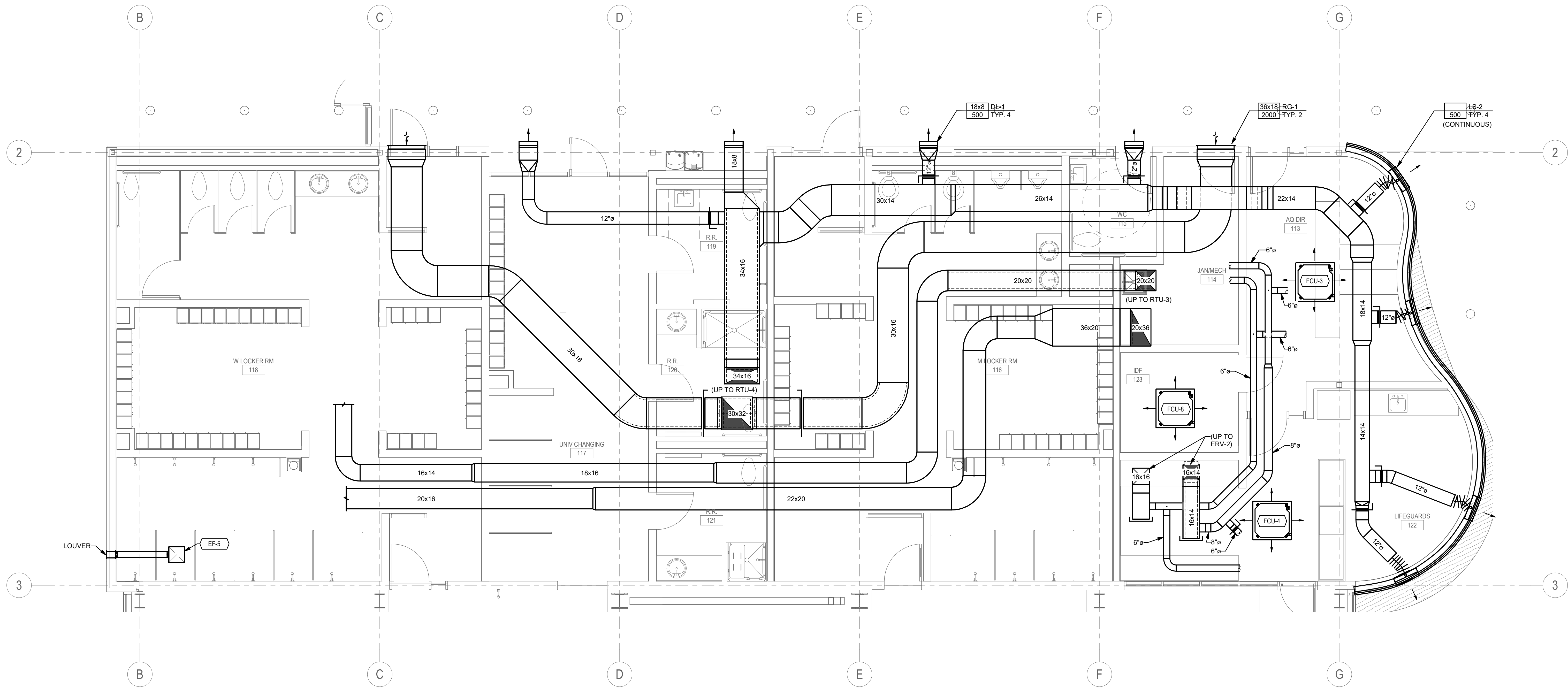
ISSUE DATE: DEC 01, 2023

REVISION SCHEDULE		
Rev #	Date	Description

CONTENTS:  
**ENLARGED PLANS  
 - MECHANICAL**

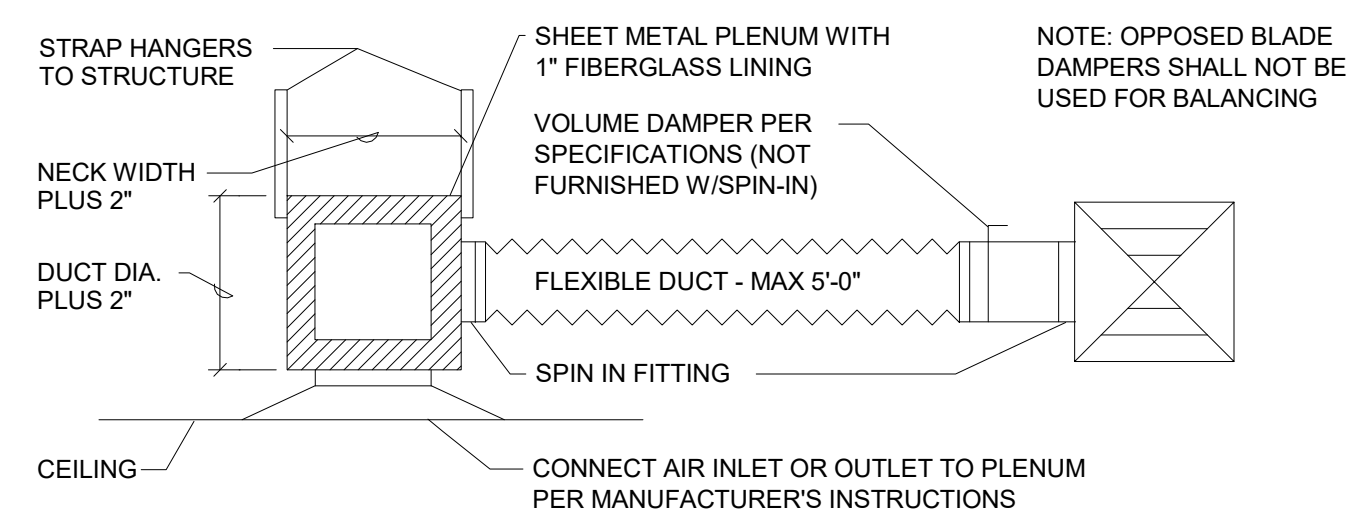
SCALE: 1/4" = 1'-0"  
 DRAWN: QB  
 CHECKED: TL  
 PROJECT NO: 2022021.000

SHEET:  
**M3.1**

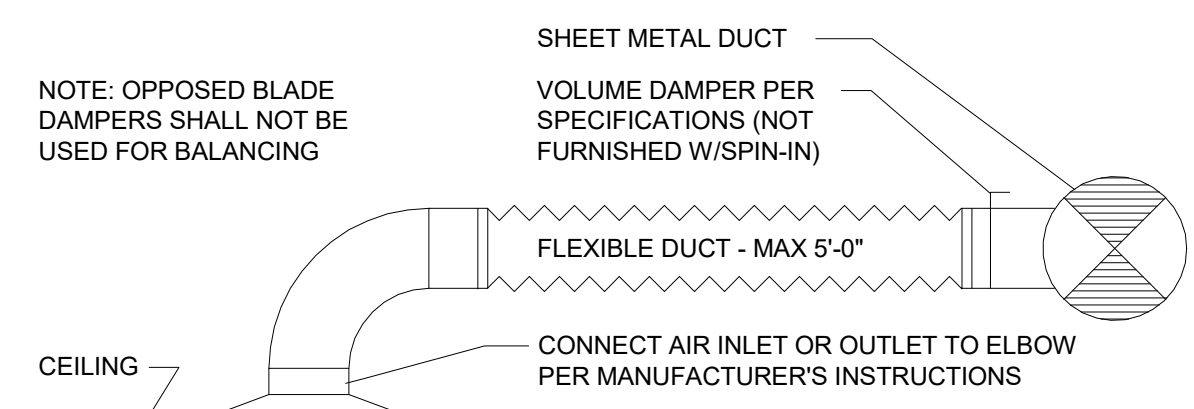


**1 ENLARGED LOCKER ROOM AREA - MECHANICAL**  
 0' 2' 4' 8'  
 1/4" = 1'-0"

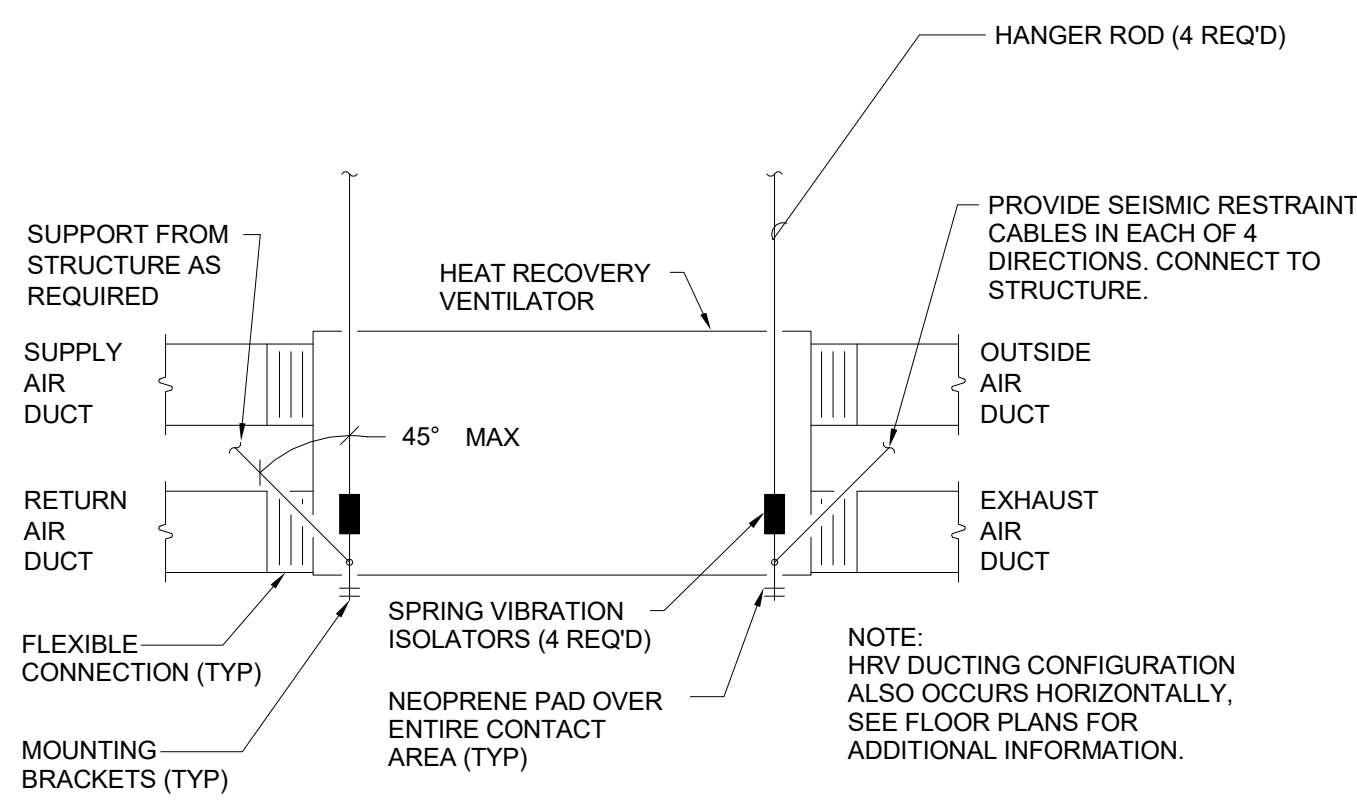




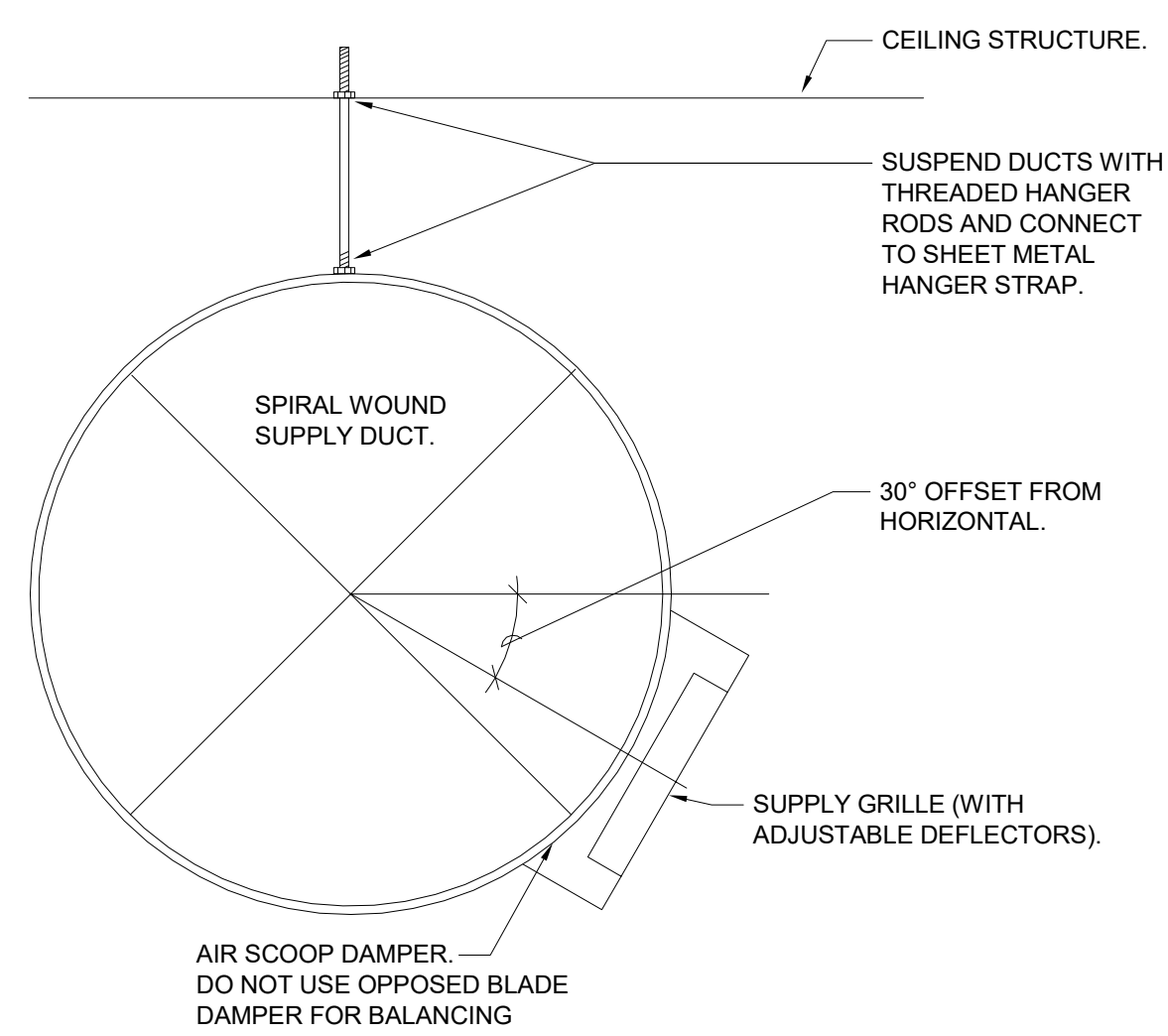
**1 AIR INLET OR OUTLET SQUARE NECK**  
 NO SCALE



**2 AIR INLET OR OUTLET ROUND NECK**  
 NO SCALE



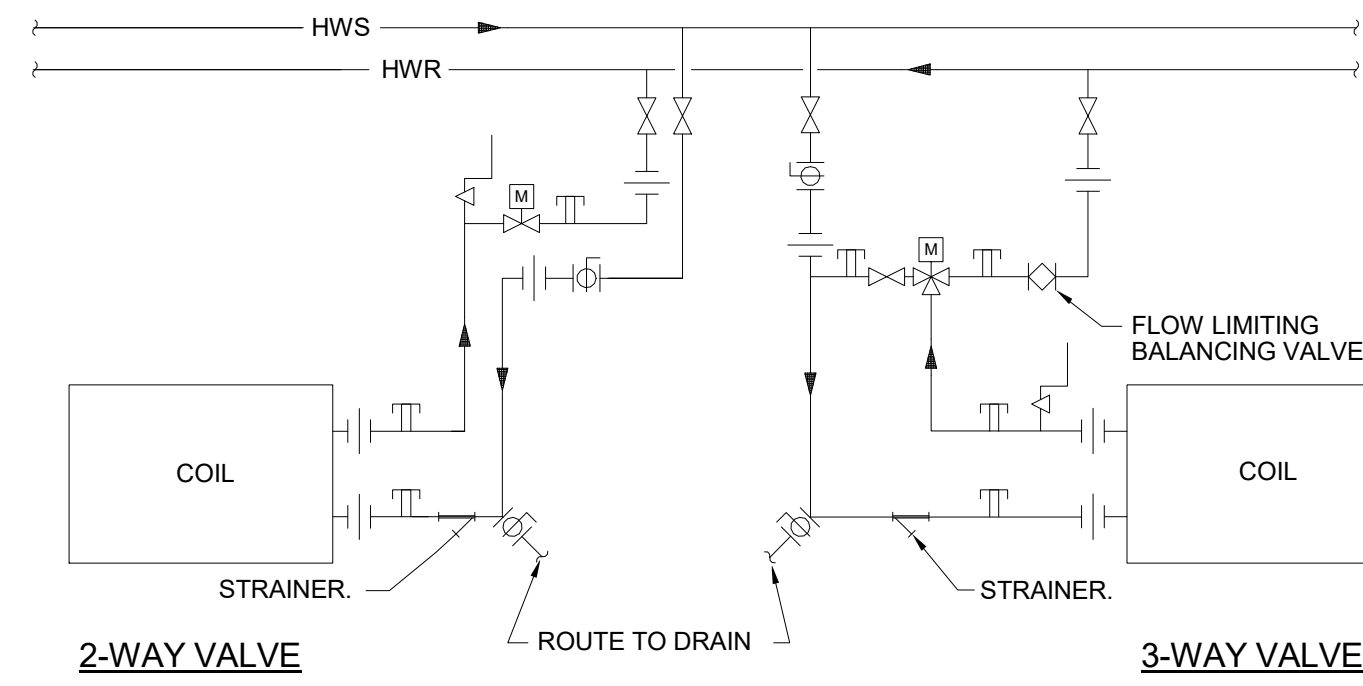
**3 INDOOR ENERGY RECOVERY VENTILATOR (ERV-1,2)**  
 NO SCALE



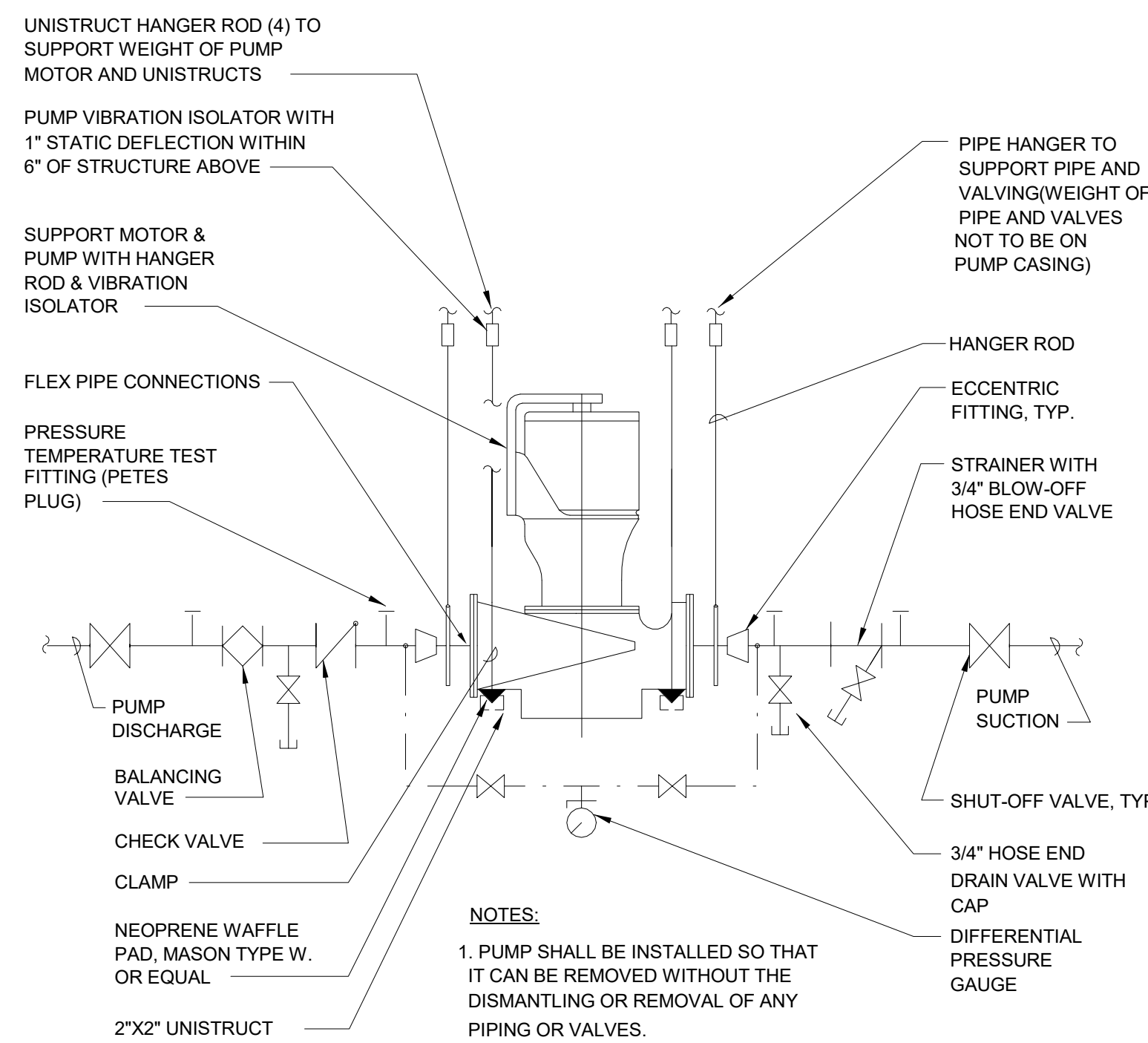
**4 EXPOSED DUCT-MOUNTED SUPPLY GRILLE**

**GENERAL DETAIL NOTES**

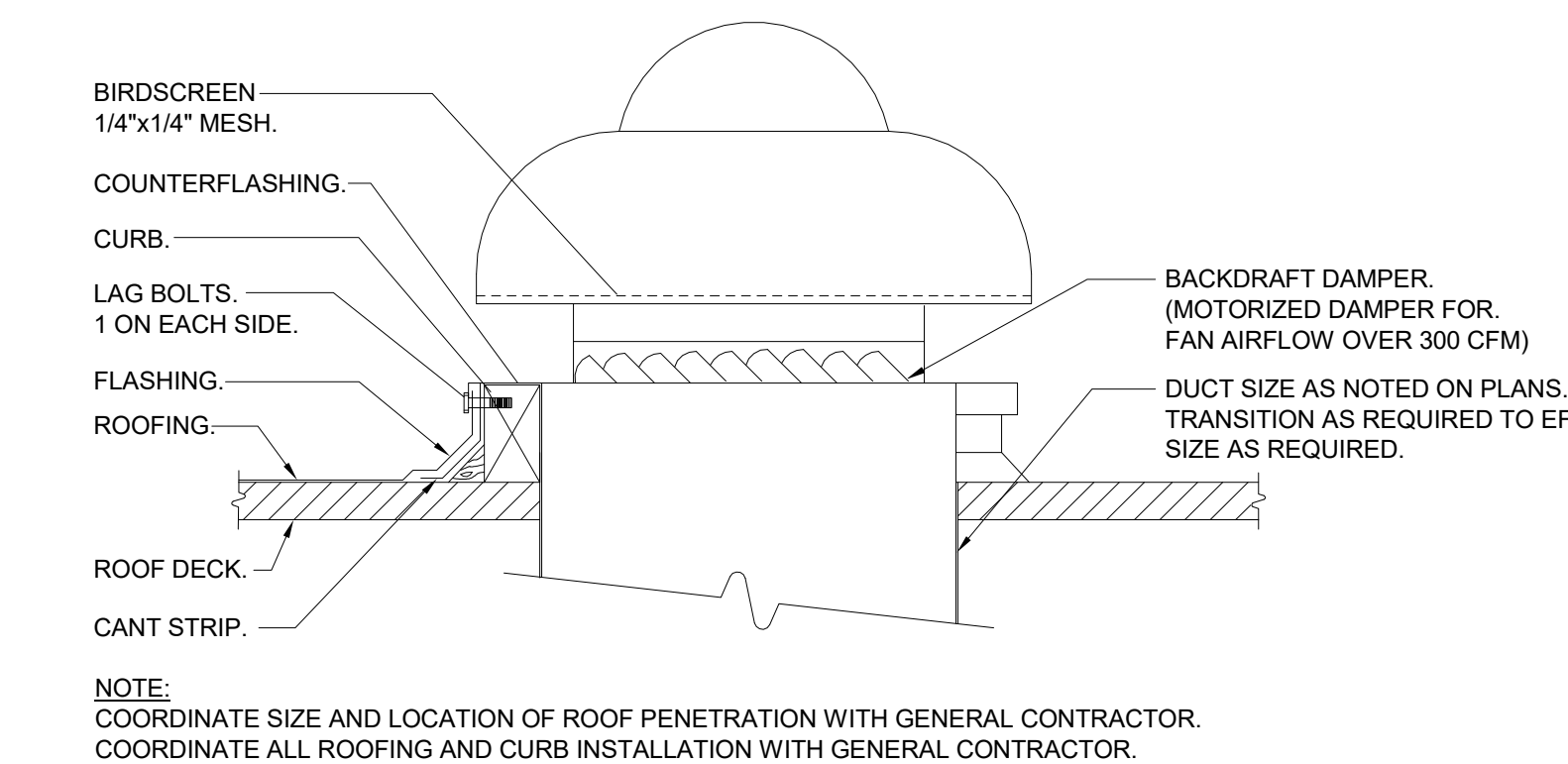
- A. TWO-WAY VALVES TYPICAL. USE THREE-WAY VALVES WHERE NOTED AND AT END OF PIPING RUNS.
- B. 2-WAY CONTROL VALVES TO BE PRESSURE INDEPENDENT TYPE.



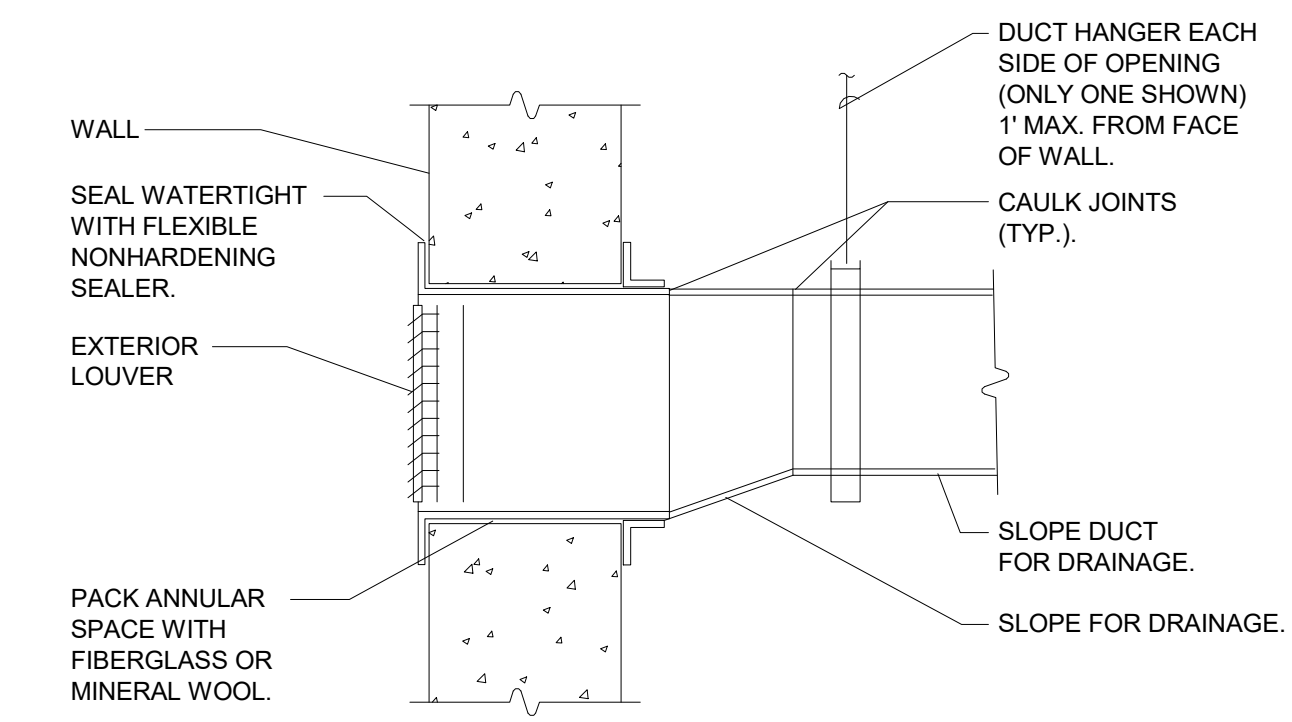
**5 HEATING COIL PIPING**  
 NO SCALE



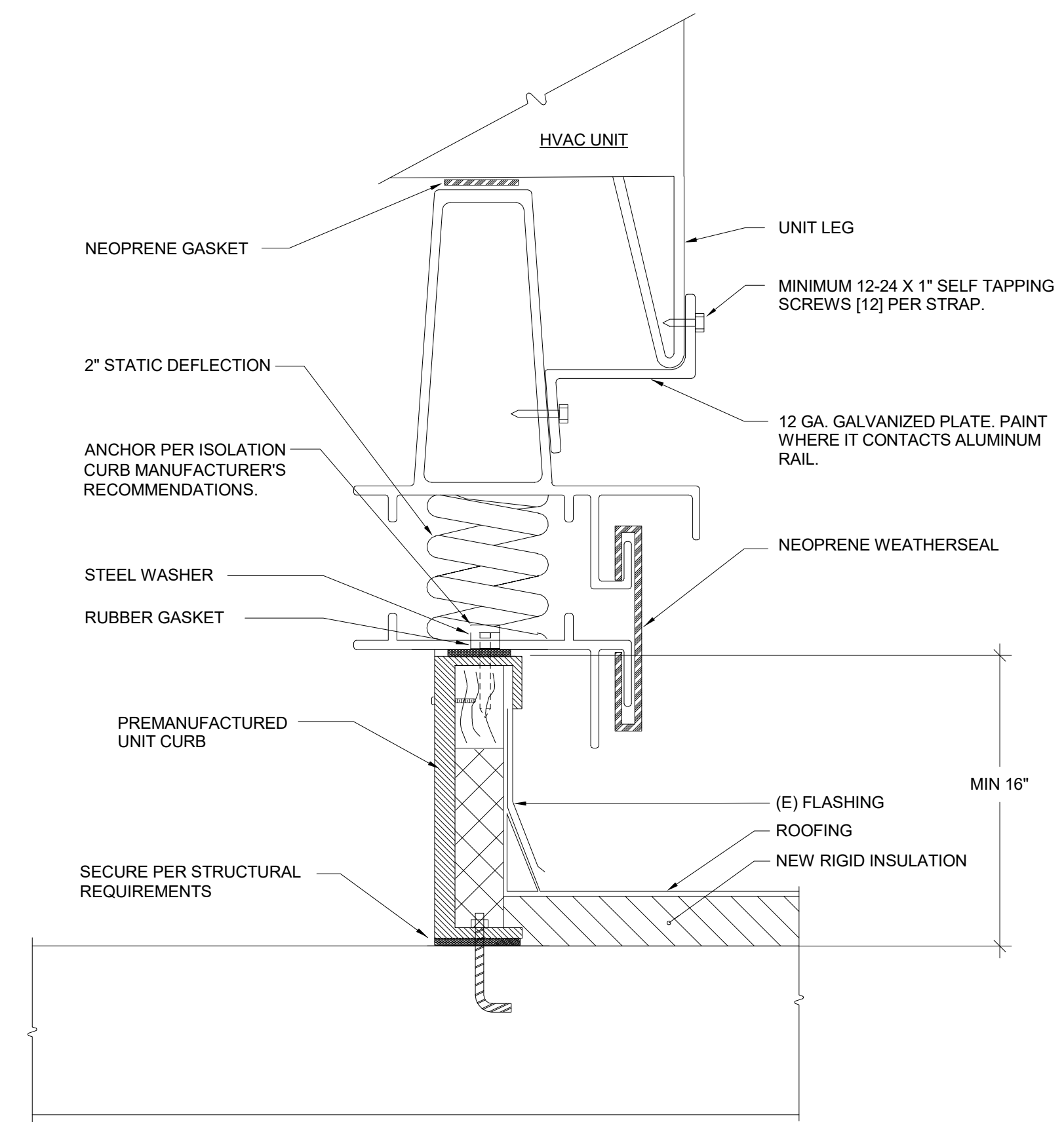
**6 VERTICAL IN-LINE PUMP (HWP-1,2)**  
 NO SCALE



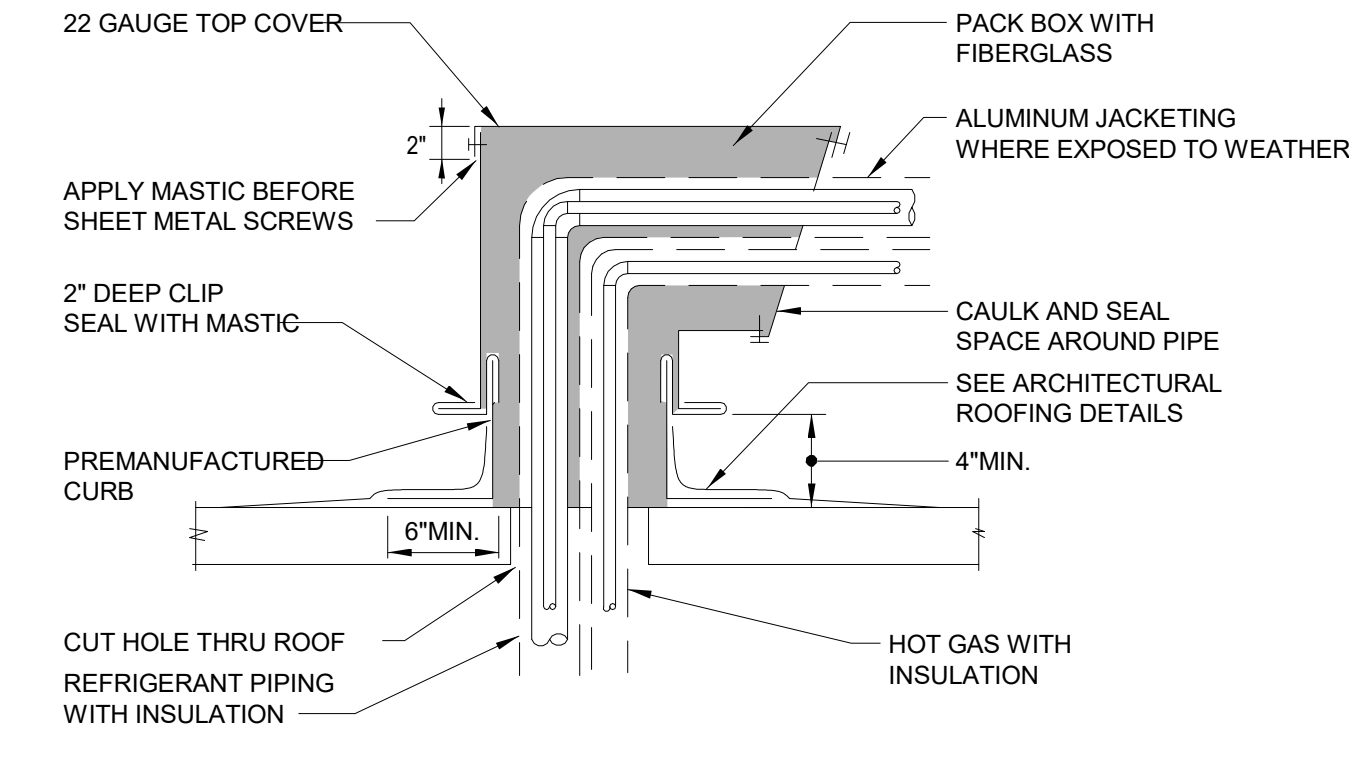
**7 ROOF EXHAUST FAN**  
 NO SCALE



**8 LOUVERED WALL PENETRATION**  
 NO SCALE



**9 HVAC UNIT CURB W/SPRING**  
 NO SCALE



**10 ROOF JACK FOR PIPES THRU ROOF**  
 NO SCALE

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CONTENTS:  
**DETAILS - MECHANICAL**

SCALE: 12" = 1'-0"  
 DRAWN: QB  
 CHECKED: TL  
 PROJECT NO: 2022021.000

SHEET:  
**M4.1**







**PLUMBING FIXTURE SCHEDULE**

SYMBOL	FIXTURE TYPE	DESCRIPTION	MFR	MODEL	BASIS OF DESIGN	CONNECTION				ELECTRICAL	NOTES
						W	V	CW	HW		
DSC-1	DOWNSPOUT COVER	304 STAINLESS STEEL HINGED/PERFORATED, VANDAL RESISTANT DOWNSPOUT COVER	JR SMITH	1775-U	ACCESSORIES						
ESH-1	EMERGENCY FIXTURE	FLOOR MOUNTED, HOT DIPPED GALVANIZED STEEL CONSTRUCTION, ABS PLASTIC EYE WASH BOWL AND SHOWER HEAD, IN-LINE 50 X 50 MESH EYEWASH WATER STRAINER, STAY OPEN BALL VALVE, ADA COMPLIANT	HAWS	8309WC	THERMOSTATIC MIXING VALVE: HAWS MODEL 9201E	1-1/2"	1-1/2"	1"	1"	--	SET MIXING VALVE TEMPERATURE TO DELIVER 80 DEG. F. TEMPERED WATER, 1-1/4" TEMPERED WATER CONNECTION FROM MIXING VALVE TO FIXTURE.
EW-1	ELECTRIC WATER COOLER	ELECTRIC WATER COOLER - DUAL STATION, SURFACE MOUNTED, NON-FILTERED, LOW BOWL ON RIGHT, BOTTLE FILLER, STAINLESS STEEL FINISH, VANDAL RESISTANT, MECHANICALLY ACTIVATED	ELKAY	EZSTL8WSS	IN-WALL CARRIER SYSTEM - ELKAY MODEL MLP200	1-1/2"	1-1/2"	1/2"	--	115V, 60HZ, 6 AMPS	SEE ARCHITECTURAL PLANS FOR MOUNTING HEIGHT. COORDINATE ELECTRICAL REQUIREMENTS WITH DIVISION 26.
FD-1	FLOOR DRAIN	CAST IRON BODY, FLASHING COLLAR, 6-INCH ADJUSTABLE NICKEL BRONZE STRAINER HEAD, TRAP PRIMER, VANDAL PROOF SCREWS	JR SMITH	105Y-A-06-P050-L-NB		SEE PLANS	SEE PLANS	PRIMER CONN.	--	--	
FS-1	FLOOR SINK	12-1/2" TOP, CAST IRON FLANGED RECEPTOR, SEEPAGE HOLES, ACID RESISTANT COATED INTERIOR, NICKEL BRONZE RIM, ALUMINUM DOME BOTTOM STRAINER, 10-INCH DEEP, NO-HUB OUTLET	JR SMITH	3160Y	PROVIDE GRATE AS INDICATED ON PLANS	SEE PLANS	SEE PLANS	PRIMER CONN.	--	--	
HB-1	WALL HYDRANT	ENCASED (RECTANGULAR BOX), NON-FREEZE, ANTI-SIPHON, AUTOMATIC DRAINING, CHROME PLATED BOX/DOOR ASSEMBLY, DOUBLE CHECK BACKFLOW PREVENTER, LOOSE TEE KEY OPERATION	WOODFORD	B67		--	--	3/4"	--	--	
HB-2	WALL HYDRANT	ENCASED, HOT AND COLD, NON-FREEZE, ANTI-SIPHON, AUTOMATIC DRAINING, CHROME PLATED ASSEMBLY, DOUBLE CHECK BACKFLOW PREVENTER, LOOSE KEY OPERATION	WOODFORD	HCB67		--	--	3/4"	3/4"	--	
IM-1	OUTLET BOX	ICE MAKER OUTLET BOX (FIRE RATED) - NSF-372 COMPLIANT, ABS BOX/FRAME, NO LEAD BRASS VALVE, ASSE 1010 WATER HAMMER ARRESTOR, 1/4" OUTLET CONNECTION	SILOUX CHIEF	696RG1010		--	--	1/2"	--	--	SUPPLY CONNECTION TYPE PER PIPING MATERIAL. INSTALL WITH BOTTOM OF BOX AT 18" A.F.F. UNLESS NOTED OTHERWISE.
L-1	LAVATORY	COUNTERTOP, SELF-RIMMING, ROUND, 19-1/8" DIA, VITREOUS CHINA, SINGLE-HOLE PUNCH, FRONT OVERFLOW	AMERICAN STANDARD	0490.156	DECK MOUNTED, TOUCH-FREE, SENSOR OPERATED FAUCET, BATTERY POWERED, SINGLE HOLE, SINGLE-SUPPLY, 0.50 GPM; CHICAGO FAUCETS MODEL 116.606.AB.1; ASSE 1070 COMPLIANT MIXING VALVE; INTEGRAL CHECK VALVES, WATTS MODEL LFRMV (SET DISCHARGE TEMPERATURE AT 110 DEG. F.)	1-1/2"	1-1/2"	1/2"	1/2"	--	SEE SPECIFICATION SECTION 224000 FOR TRAP COVERS, SUPPLY STOPS AND ADDITIONAL ACCESSORIES
L-2	LAVATORY	WALL HUNG, ADA COMPLIANT, VITREOUS CHINA, SINGLE-HOLE PUNCH, FRONT OVERFLOW	AMERICAN STANDARD	0356.421	DECK MOUNTED, TOUCH-FREE, SENSOR OPERATED FAUCET, BATTERY POWERED, SINGLE HOLE, SINGLE-SUPPLY, 0.50 GPM; CHICAGO FAUCETS MODEL 116.606.AB.1; ASSE 1070 COMPLIANT MIXING VALVE; INTEGRAL CHECK VALVES, WATTS MODEL LFRMV (SET DISCHARGE TEMPERATURE AT 110 DEG. F.)	1-1/2"	1-1/2"	1/2"	1/2"	--	MOUNT LAVATORY AT ADA COMPLIANT HEIGHT, SEE ARCHITECTURAL PLANS FOR HEIGHT AND LOCATION. SEE SPECIFICATION SECTION 224000 FOR FLOOR MOUNTED CARRIER, TRAP COVERS, SUPPLY STOPS AND ADDITIONAL ACCESSORIES
MS-1	MOP SINK	FLOOR MOUNTED, ONE PIECE MOLDED STRUCTURAL FIBERGLASS, 24-INCHES X 24-INCHES X 10-INCHES	MUSTEE	63M	WALL HUNG, MOP SINK FAUCET, 8-INCH CENTERS, LEVER HANDLES, PAIL HOOK, CHROME PLATED, ATMOSPHERIC VACUUM BREAKER, 3/4" THREADED HOSE OUTLET AND WALL FLANGE; CHICAGO FAUCETS MODEL 540-LD875/WX/ABCP; 3/8" OFF-SET INLET SUPPLY ARM WITH INTEGRAL CHECK; CHICAGO FAUCETS MODEL GCJKABCP; VINYL BUMPER GUARDS, MUSTEE MODEL 63.401	3"	2"	1/2"	1/2"	--	
OD-1	ROOF DRAIN	EPOXY COATED CAST IRON BODY WITH FLANGE, FLASHING RING WITH GRAVEL STOP, UNDER DECK CLAMP, EXTENSION, SUMP RECEIVER, 2-INCH WATER DAM, ALUMINUM DOME	JR SMITH	1080Y-AD-C-E-R		SEE PLANS	--	--	--	--	
RH-1	ROOF HYDRANT	NON-FREEZE SANITARY ROOF HYDRANT, SELF DRAINING (NO DRAIN REQUIRED), ASSE 1057 LISTED, ASSE 1052 DOUBLE CHECK BACKFLOW PREVENTER, MOUNTING SYSTEM	WOODFORD	SRH-MS		--	--	3/4"	--	--	
S-1	SINK	DROP-IN, SINGLE BOWL, 18 GAUGE STAINLESS STEEL, 22-INCHES X 22-INCHES X 6-1/2-INCHES DEEP, 27-INCH MINIMUM CABINET SIZE, 3-HOLE PUNCH, BARRIER FREE	ELKAY	LRAD222265	DECK MOUNTED FAUCET, 8-INCH RIGID/SWING GOOSENECK, 4" WRISTBLADE HANDLES, 8-INCH FIXED CENTERS, 1.5 GPM AERATED FLOW RATE, CHICAGO FAUCETS MODEL 201-AGN8AE35-317AB	2"	1-1/2"	1/2"	1/2"	--	SEE SPECIFICATION SECTION 224000 FOR SUPPLY STOPS AND ADDITIONAL ACCESSORIES.
SH-1	SHOWER	TILE SHOWER			SINGLE HANDLE PRESSURE BALANCING SHOWER VALVE, SERVICE/CHECK STOPS, 1.5 GPM FIXED SHOWER HEAD FLOW RATE, ZURN MODEL Z7301-SS-MT-S9	2"	1-1/2"	1/2"	1/2"	--	PROVIDE WITH OPTIONS AS LISTED IN DESCRIPTION
SH-2	SHOWER	TILE SHOWER			SINGLE HANDLE PRESSURE BALANCING SHOWER VALVE, SERVICE/CHECK STOPS, 1.5 GPM HANDHELD SHOWER HEAD FLOW RATE, 60-INCH FLEXIBLE METAL HOSE, 24-INCH MOUNTING BAR, VACUUM BREAKER; ZURN MODEL Z7300-SS-HW-MT-H9	2"	1-1/2"	1/2"	1/2"	--	HANDING BASED ON SEAT LOCATION, COORDINATE WITH ARCHITECT PRIOR TO PROCUREMENT. PROVIDE WITH OPTIONS AS LISTED IN DESCRIPTION.
SH-3	SHOWER	BARRIER FREE, ONE PIECE, 38-INCHES X 38-1/2-INCHES X 82-INCHES INSIDE DIMENSIONS, SLIP RESISTANT TEXTURED BOTTOM, HORIZONTAL L-GRAB BAR, VERTICAL GRAB BAR, FOLD UP SEAT, STEEL CURTAIN ROD, 5/8-INCH THRESHOLD	EVERFAB	S3838A1-R	SINGLE HANDLE PRESSURE BALANCING SHOWER VALVE, SERVICE/CHECK STOPS, 1.5 GPM HANDHELD SHOWER HEAD FLOW RATE, 60-INCH FLEXIBLE METAL HOSE, 24-INCH MOUNTING BAR, VACUUM BREAKER; ZURN MODEL Z7300-SS-HW-MT-H9	2"	1-1/2"	1/2"	1/2"	--	HANDING BASED ON SEAT LOCATION, COORDINATE WITH ARCHITECT PRIOR TO PROCUREMENT. PROVIDE WITH OPTIONS AS LISTED IN DESCRIPTION.
SH-4	SHOWER	BARRIER FREE, ONE PIECE, 63-INCHES X 36-INCHES X 78-1/2-INCHES INSIDE DIMENSIONS, SLIP RESISTANT TEXTURED BOTTOM, HORIZONTAL BACK AND SIDE WALL GRAB BARS, VERTICAL SIDE WALL GRAB BAR, FOLD UP SEAT, STEEL CURTAIN ROD, 3/4-INCH THRESHOLD	EVERFAB	S6336A13-R	SINGLE HANDLE PRESSURE BALANCING SHOWER VALVE, SERVICE/CHECK STOPS, 1.5 GPM HANDHELD SHOWER HEAD FLOW RATE, 60-INCH FLEXIBLE METAL HOSE, 24-INCH MOUNTING BAR, VACUUM BREAKER; ZURN MODEL Z7300-SS-HW-MT-H9	2"	1-1/2"	1/2"	1/2"	--	HANDING BASED ON SEAT LOCATION, COORDINATE WITH ARCHITECT PRIOR TO PROCUREMENT. PROVIDE WITH OPTIONS AS LISTED IN DESCRIPTION.
TD-1	TRENCH DRAIN	STAINLESS STEEL LINEAR SHOWER DRAIN, VERTICALLY ADJUSTABLE ANCHORING SUPPORT LEGS, NO-HUB 2-INCH OUTLET, LIGHT DUTY	ZURN	ZS880	PROVIDE LENGTHS AS NEEDED TO FIT AREAS SHOWN ON PLANS.	SEE PLANS	SEE PLANS	PRIMER CONN.	--	--	SEE PLUMBING PLANS FOR OUTLET LOCATION AND INVERT ELEVATION. SEE ARCHITECTURAL PLANS FOR EXACT LENGTH AND LOCATION.
TD-2	TRENCH DRAIN	HDPE WITH UV INHIBITORS, 48-INCH LENGTH X 6-INCH WIDTH, PRE-SLOPED	NDS	DURA-SLOPE	GRATE: NDS DURA-DLOPE DS-670	SEE PLANS	SEE PLANS	PRIMER CONN.	--	--	SEE PLUMBING PLANS FOR OUTLET LOCATION AND INVERT ELEVATION. SEE ARCHITECTURAL PLANS FOR EXACT LENGTH AND LOCATION.

**PLUMBING FIXTURE SCHEDULE**

SYMBOL	FIXTURE TYPE	DESCRIPTION	MFR	MODEL	BASIS OF DESIGN	CONNECTION				ELECTRICAL	NOTES
						W	V	CW	HW		
UR-1	URINAL	WALL HUNG, 0.125 GPF, VITREOUS CHINA, TOP SPUD, FLUSHOMETER, STANDARD MOUNTING HEIGHT	SLOAN	SU-1009	FLUSH VALVE - MANUAL OPERATION, 0.125 GPF, DUAL-FILTERED BYPASS, POLISHED CHROME FINISH, TOP SPUD; SLOAN MODEL ROYAL 186-0.125-DBP	2"	1-1/2"	3/4"	--	--	MOUNT URINAL AT STANDARD HEIGHT, SEE ARCHITECTURAL PLANS FOR HEIGHT AND LOCATION. SEE SPECIFICATION SECTION 224000 FOR FLOOR MOUNTED CARRIER AND ADDITIONAL ACCESSORIES.
UR-2	URINAL	WALL HUNG, 0.125 GPF, VITREOUS CHINA, TOP SPUD, FLUSHOMETER, BARRIER FREE MOUNTING HEIGHT	SLOAN	SU-1009	FLUSH VALVE - MANUAL OPERATION, 0.125 GPF, DUAL-FILTERED BYPASS, POLISHED CHROME FINISH, TOP SPUD; SLOAN MODEL ROYAL 186-0.125-DBP	2"	1-1/2"	3/4"	--	--	MOUNT URINAL AT ADA COMPLIANT HEIGHT, SEE ARCHITECTURAL PLANS FOR HEIGHT AND LOCATION. SEE SPECIFICATION SECTION 224000 FOR FLOOR MOUNTED CARRIER AND ADDITIONAL ACCESSORIES.
WC-1	WATER CLOSET	WALL HUNG, 1.28 GPF MANUAL FLUSHOMETER, VITREOUS CHINA, TOP SPUD, STANDARD MOUNTING HEIGHT	SLOAN	ST-2459	FLUSH VALVE - MANUAL OPERATION, 1.28 GPF, POLISHED CHROME FINISH, TOP SPUD; SLOAN MODEL ROYAL 111-1.28; SEAT - ELONGATED, PLASTIC, SELF-SUSTAINING CHECK HINGES WITH NON-CORRODING STAINLESS STEEL POSTS; BEMIS MODEL 1955SSCT	4"	2"	1-1/4"	--	--	MOUNT WATER CLOSET AT STANDARD HEIGHT, SEE ARCHITECTURAL PLANS FOR HEIGHT AND LOCATION. SEE SPECIFICATION SECTION 224000 FOR FLOOR MOUNTED CARRIER AND ADDITIONAL ACCESSORIES.
WC-2	WATER CLOSET	WALL HUNG, 1.28 GPF MANUAL FLUSHOMETER, VITREOUS CHINA, TOP SPUD, ADA MOUNTING HEIGHT	SLOAN	ST-2459	FLUSH VALVE - MANUAL OPERATION, 1.28 GPF, POLISHED CHROME FINISH, TOP SPUD; SLOAN MODEL ROYAL 111-1.28; SEAT - ELONGATED, PLASTIC, SELF-SUSTAINING CHECK HINGES WITH NON-CORRODING STAINLESS STEEL POSTS; BEMIS MODEL 1955SSCT	4"	2"	1-1/4"	--	--	MOUNT WATER CLOSET AT ADA HEIGHT, SEE ARCHITECTURAL PLANS FOR HEIGHT AND LOCATION. SEE SPECIFICATION SECTION 224000 FOR FLOOR MOUNTED CARRIER AND ADDITIONAL ACCESSORIES.
WC-3	WATER CLOSET	FLOOR MOUNTED, 1.28 GPF MANUAL FLUSHOMETER, VITREOUS CHINA, TOP SPUD, ADA HEIGHT	SLOAN	ST-2029	FLUSH VALVE - MANUAL OPERATION, 1.28 GPF, POLISHED CHROME FINISH, TOP SPUD; SLOAN MODEL ROYAL 111-1.28; SEAT - ELONGATED, PLASTIC, SELF-SUSTAINING CHECK HINGES WITH NON-CORRODING STAINLESS STEEL POSTS; BEMIS MODEL 1955SSCT	4"	2"	1-1/4"	--	--	SEE ARCHITECTURAL PLANS FOR LOCATION. SEE SPECIFICATION SECTION 224000 FOR ADDITIONAL ACCESSORIES.
WM-1	OUTLET BOX	WASHING MACHINE OUTLET BOX (FIRE RATED) - NSF-372 COMPLIANT, ABS BOX/FRAME, NO-LEAD BRASS VALVES, ASSE 1010 WATER HAMMER ARRESTORS, 3/4" OUTLET CONNECTIONS, 2" DRAIN CONNECTION, INDIVIDUAL DRAIN AND SUPPLY BOXES	SILOUX CHIEF	696RG2313		2"	1-1/2"	1/2"	1/2"	--	SUPPLY CONNECTION TYPE PER PIPING MATERIAL. INSTALL WITH BOTTOM OF BOX AT 34" A.F.F. UNLESS NOTED OTHERWISE.

NOTES:  
 1 SEE ARCHITECTURAL DRAWINGS FOR ALL FIXTURE MOUNTING HEIGHTS AND LOCATIONS.  
 \* UNLESS NOTED OTHERWISE ON DRAWINGS



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**100% DESIGN  
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WATER & WASTE SERVICE CALCULATIONS (BASED ON APPENDIX 'A' AND TABLE 7-3 OF THE 2021 OREGON PLUMBING SPECIALTY CODE)							
FIXTURE QUANTITY	DESCRIPTION	DOMESTIC WATER				SANITARY SEWER	
		APPENDIX 'A'	TOTAL FIXTURE UNITS			TABLE 7-3	TOTAL
PUBLIC		PUBLIC	COLD WATER	COLD WATER (75)	HOT WATER (75)	PUBLIC	FIXTURE UNITS
1	CLOTHES WASHER	4.00	4.00	3.00	3.00	3.00	3.00
2	DRINKING FOUNTAIN	0.50	1.00	1.00	---	0.50	1.00
1	HOSE BIBB	2.50	2.50	2.50	---	---	---
10	HOSE BIBB, EACH ADDITIONAL	1.00	10.00	10.00	---	---	---
11	LAVATORY	1.00	11.00	8.25	8.25	1.50	16.50
2	SERVICE SINK OR MOP BASIN	3.00	6.00	4.50	4.50	3.00	6.00
15	SHOWER	2.00	30.00	22.50	22.50	2.00	30.00
3	SINK	1.50	4.50	3.38	3.38	2.00	6.00
3	URINAL	4.00	12.00	12.00	---	2.00	6.00
15	WATER CLOSET, 1.28 GPF, FLUSH VALVE	5.00	75.00	75.00	---	4.00	60.00
TOTAL			156.00	142.13	41.63		128.50
FLOW IN GPM			85				
SERVICE SIZE TO BUILDING			3"				4"
a.	MINIMUM DAILY SERVICE PRESSURE (RESIDUAL)		75	psi			
b.	WATER METER PRESSURE DROP		5	psi			
c.	BACKFLOW PREVENTER		13	psi			
d.	STATIC HEAD LOSS (0.434 /FT X)	10	10	psi			
e.	PRESSURE REQUIRED AT FIXTURE		30	psi			
PRESSURE AVAILABLE FOR FRICTION LOSS			17	psi			
TOTAL EQUIVALENT PIPE LENGTH							
250	LENGTH X	1.25	312.5	ft			
MAXIMUM FRICTION LOSS							
	PRESS. AVAIL. X 100/EQUIV. LENGTH		5.440	psi			
SERVICE SIZE FROM METER TO BUILDING			3"				

DOMESTIC WATER HEAT PUMP SYSTEM SCHEDULE															
SYMBOL	EQUIPMENT TYPE	LOCATION / SERVING	BASIS OF DESIGN			TANK CAPACITY (GALLONS)	RECOVERY RATE @ 100F RISE (GPH)	ELECTRICAL						MAX WT (LBS)	COMMENTS
			MFR	MODEL	FLOW RATE (GPM)			HEAD (FT H2O)	RPM	VOLTS	PH	KW	FLA		
DWHP-1	DOMESTIC WATER HEAT PUMP	ROOF / BUILDING HOT WATER SYSTEM	LYNC	AEGIS A 250	---	---	---	480	3	160.1	35.4	55	80	1670	
DWHX-1	DOMESTIC WATER HEAT EXCHANGER	MECHANICAL ROOM / BUILDING HOT WATER SYSTEM	LYNC	MARK II	---	---	---	120	1	88	15	---	---	540	
ST-1	STORAGE TANK	MECHANICAL ROOM / BUILDING HOT WATER SYSTEM	AO SMITH	TJV-200M	200	---	---	---	---	---	---	---	---	2200	
DWST-1	DOMESTIC WATER SWING TANK	MECHANICAL ROOM / BUILDING HOT WATER SYSTEM	PVI	DURAWATT	150	---	70	480	3	18	22	---	---	2300	

NOTES:

PUMP SCHEDULE														
SYMBOL	EQUIPMENT TYPE	LOCATION / SERVING	BASIS OF DESIGN			FLOW RATE (GPM)	HEAD (FT H2O)	RPM	ELECTRICAL					COMMENTS
			MFR	MODEL	WATER HEATER 177 / LOCKER ROOMS AND ADMIN AREAS				VOLTS	PH	AMPS	WATTS	HP	
CP-1	DOMESTIC HOT WATER CIRCULATING PUMP	WATER HEATER 177 / LOCKER ROOMS AND ADMIN AREAS	TACO	00346-SF2	9	15	1725	115	1	1.48	170	1/6	BRONZE BODY, IN-LINE PUMP.	
CP-2	DOMESTIC HOT WATER CIRCULATING PUMP	BUILDING MECHANICAL 149 / LAUNDRY ROOM AND REST ROOMS	GRUNDFOS	UP10-16 HWR	1	3		115	1	0.23	8.5	---	STAINLESS STEEL BODY, IN-LINE PUMP.	
DWBP-1	BOOSTER PUMP (DUPLX)	RISER 129 / DOMESTIC WATER SYSTEM	BELL & GOSSETT	SERIES 70M				480	3	---	---	---	PACKAGED PUMP SYSTEM. DUPLX CONTROL PANEL. SYSTEM INCLUDES HYDRO-PNEUMATIC TANK.	

NOTES:

WATER HEATER SCHEDULE													
SYMBOL	EQUIPMENT TYPE	LOCATION / SERVING	BASIS OF DESIGN			TANK CAPACITY (GALLONS)	GAS DATA	ELECTRICAL					COMMENTS
			MFR	MODEL	ELECTRIC INSTANTANEOUS WATER HEATER			VOLTS	PH	AMPS	KW		
EW-1	ELECTRIC INSTANTANEOUS WATER HEATER	MULTIROOM 116 / SINK	EEMAX	HA018240	---	---	---	208	1	64 (2x32)	13.3		POINT OF USE WATER HEATER, 1.5 GPM / 61 DEG F TEMPERATURE RISE, 3/4" HW/CW SUPPLY
EW-2	WATER HEATER	RISER ROOM / EMERGENCY SHOWERS AND LAUNDRY	AO SMITH	DEN-120	---	---	---	120	1	15	12.2		

NOTES:

PLUMBING DEVICES SCHEDULE										
SYMBOL	FIXTURE TYPE	DESCRIPTION	BASIS OF DESIGN			CONNECTION				NOTES
			MFR	MODEL	ACCESSORIES	W	V	CW	HW	
DET-1	DOMESTIC WATER EXPANSION TANK - IAPMO	14.0 GALLON CAPACITY, WELDED STEEL CONSTRUCTION, DIAPHRAGM TYPE, SEPARATE WATER RESERVOIR, PRE-PRESSURIZED, IAPMO CERTIFIED.	AMTROL	ST-30V		---	---	3/4"	---	
DET-2	DOMESTIC WATER EXPANSION TANK - IAPMO	4.4 GALLON CAPACITY, WELDED STEEL CONSTRUCTION, DIAPHRAGM TYPE, SEPARATE WATER RESERVOIR, PRE-PRESSURIZED, IAPMO CERTIFIED.	AMTROL	ST-12		---	---	3/4"	---	
EMV-1	EMERGENCY MIXING VALVE - MULTIPLE EMERGENCY SHOWERS	BRONZE BODY, INTERNAL GOLD WATER BYPASS, ADJUSTABLE TEMPERATURE LIMIT STOP, CHECK STOPS, DIAL THERMOMETER, 40 GPM AT 30 PSI.	LEONARD	TM-5100		---	---	1-1/4"	1-1/4"	
LMV-1	LAVATORY MIXING VALVE	THERMOSTATIC MIXING VALVE, ASSE 1070 COMPLIANT, INTEGRAL CHECK VALVES, LEAD FREE, WATTS LFMMV	WATTS	LFMMV		---	---	1/2"	1/2"	
MMV-1	MASTER MIXING VALVE	FULL PACKAGE SYSTEM WITH HIGH/LOW FLOW MIXING VALVES, GAUGES, PRV(S), VALVES, UNIONS AND OTHER CONNECTIONS. EXPOSED, 0.5 GPM TO 124 GPM AT 50 PSI MAX FALLOFF. SYSTEM PEAK = 39 GPM AT 5 PSI FALLOFF.	LYNC	V55 DIGITEMP JR.		---	---	1"	1"	1-1/4" OUTLET

NOTES:

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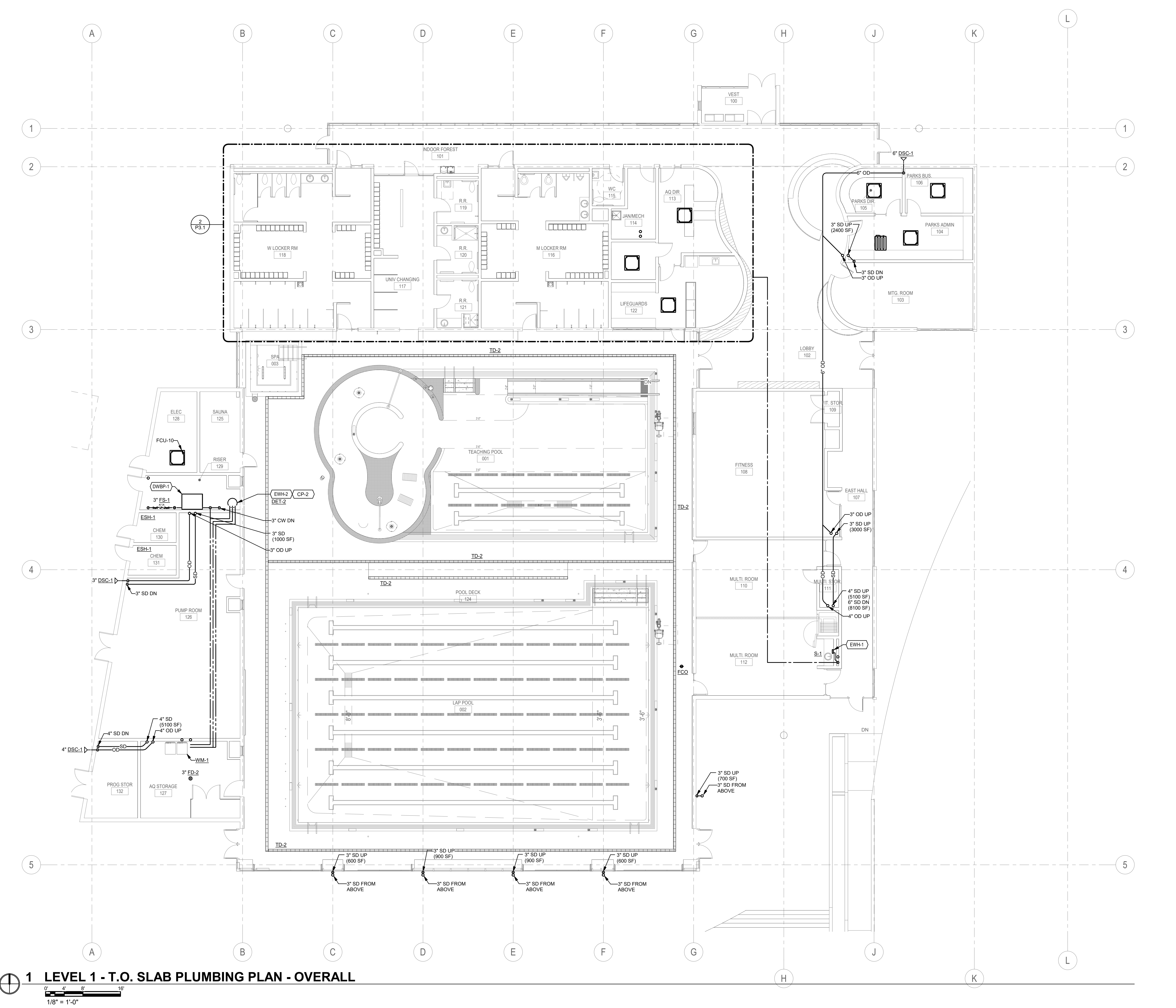
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**1st FLOOR PLAN -  
 PLUMBING**

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**1 LEVEL 1 - T.O. SLAB PLUMBING PLAN - OVERALL**  
 1/8" = 1'-0"









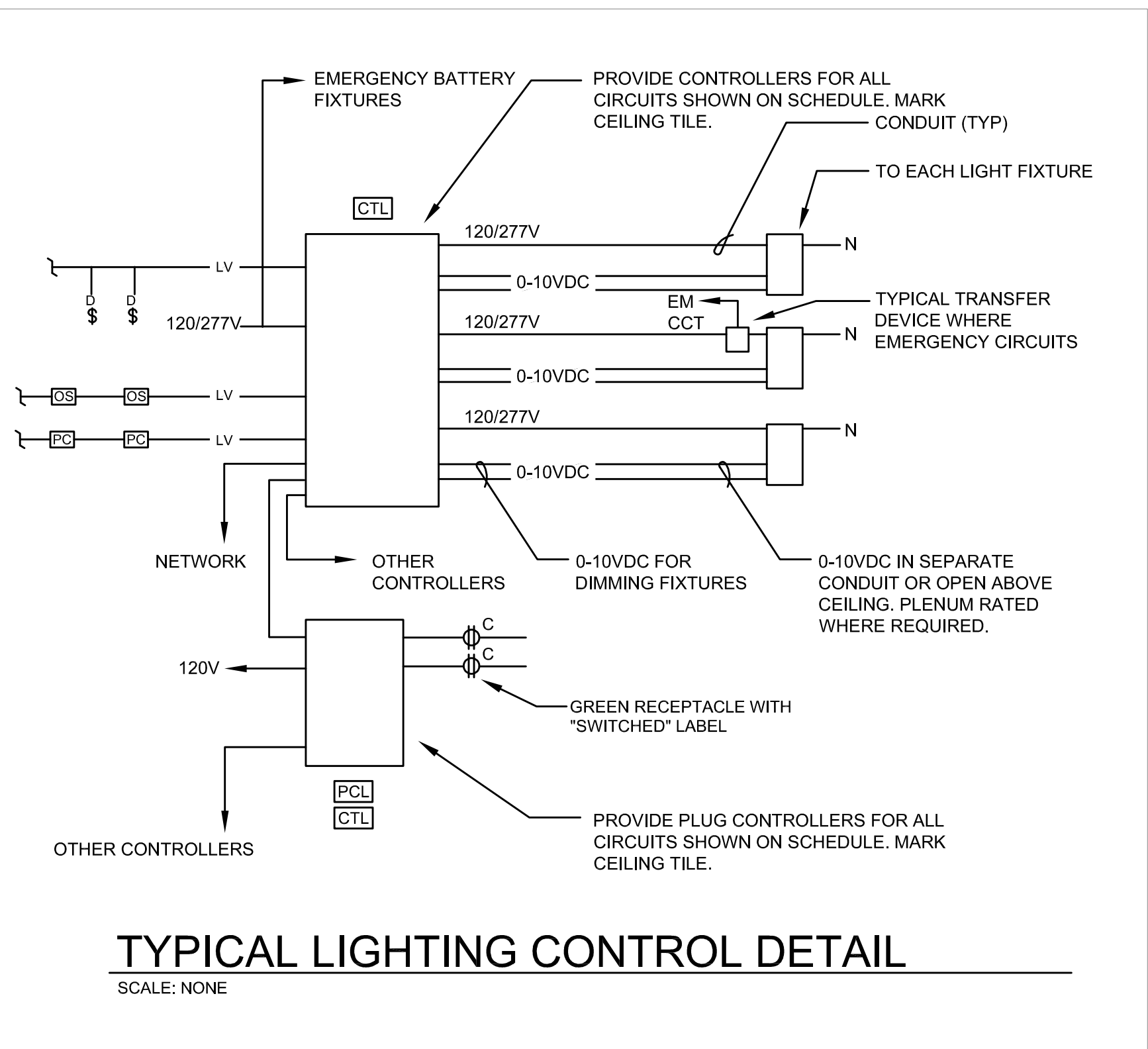
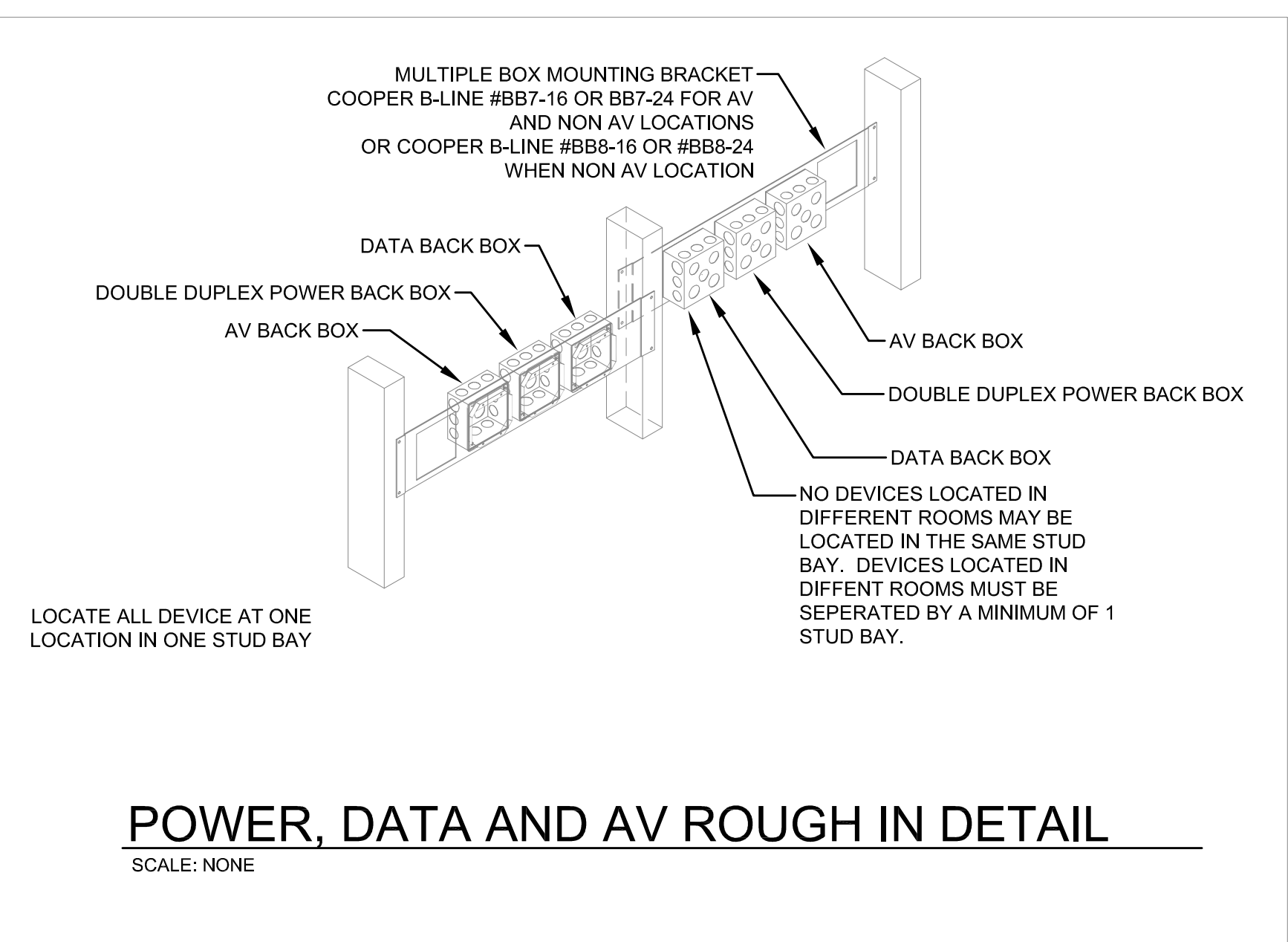
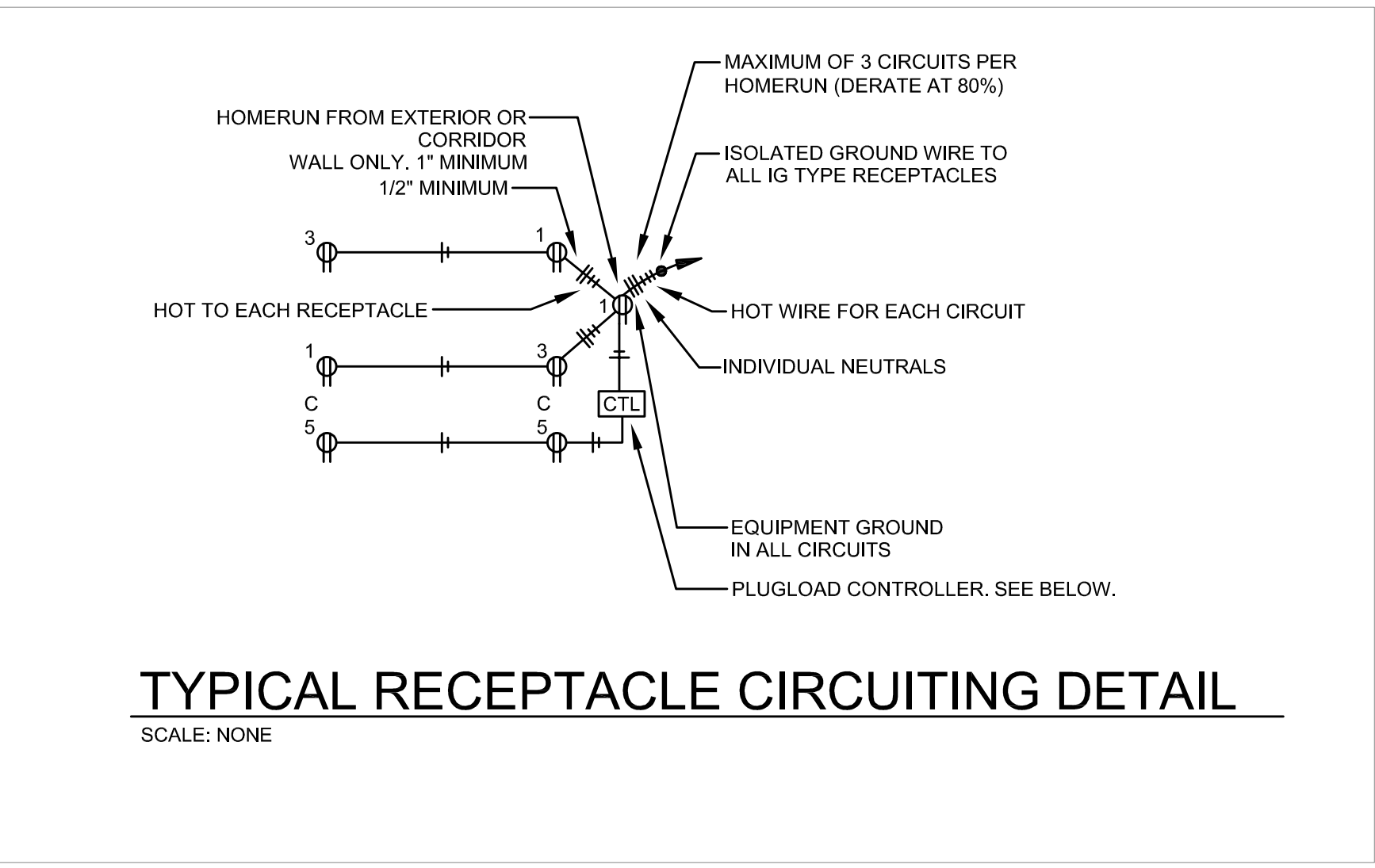


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**LEGEND**

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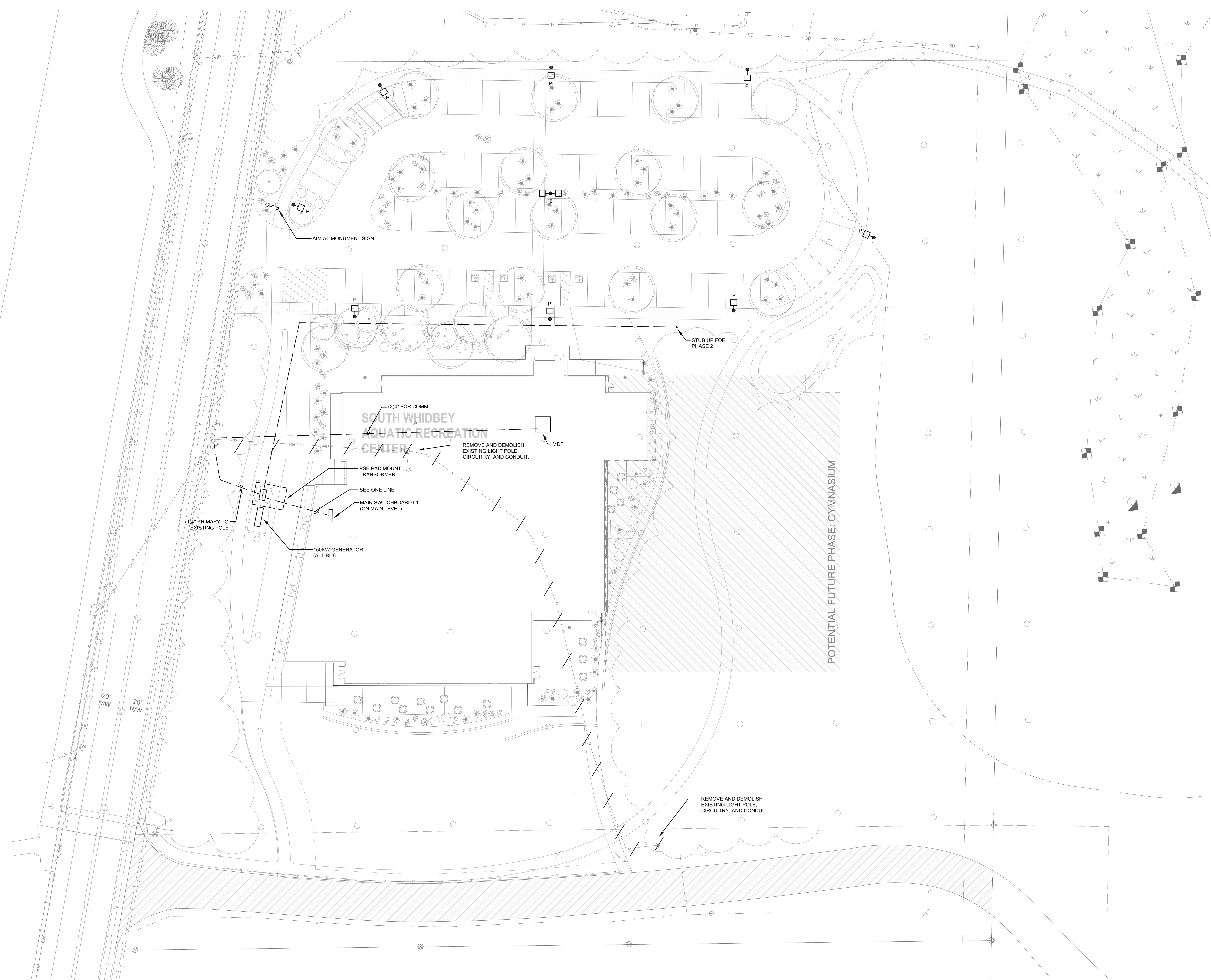


- LEGEND**
- CONDUIT CONCEALED IN CEILING OR WALLS
  - CONDUIT CONCEALED UNDERGROUND, UNDER FLOOR, OR IN WALL
  - 3/4" CONDUIT. TICK MARKS INDICATE NUMBER OF #12 WIRES. NO TICK MARKS EQUALS 2#12. GROUND WIRE NOT SHOWN. PROVIDE GROUND WIRE IN ALL 120V AND ABOVE CIRCUITS.
  - 3/4" CONDUIT. TICK MARKS INDICATE NUMBER OF #12 WIRES. NO TICK MARKS EQUALS 2#12. PROVIDE GROUND WIRE IN ALL 120V AND ABOVE CIRCUITS. DOT INDICATES ISOLATED GROUND WIRE.
  - EXPOSED CONDUIT
  - UNDER FLOOR DUCT WITH FLUSH ACTIVATIONS SHOWN
  - EXISTING CONDUIT WITH NEW WIRES INDICATED BY TICK MARKS
  - EXISTING CONDUIT
  - HOME RUN TO DESTINATION INDICATED. 1" MINIMUM UNLESS NOTED OTHERWISE.
  - RECESSED LIGHT FIXTURE, LETTERS DENOTE SWITCHING, PROVIDE BALLASTS ACCORDINGLY.
  - SURFACE OR PENDANT MOUNTED LIGHT FIXTURE
  - SURFACE OR PENDANT MOUNTED FIXTURE
  - FIXTURE WITH INTERNAL BATTERY BACKUP.
  - RECESSED LIGHT FIXTURE
  - SURFACE OR PENDANT MOUNTED LIGHT FIXTURE
  - WALL MOUNTED FIXTURE
  - STEP LIGHT
  - LED DRIVER
  - DIRECTIONAL LIGHT
  - VANITY LIGHT, WALL MOUNT
  - WALL SCONCE FIXTURE
  - POLE TOP LIGHT FIXTURE LIGHT FIXTURE
  - POLE LIGHT
  - EXIT SIGN LIGHT FIXTURE TYPE X, EXCEPT AS NOTED
  - WALL SWITCH, 1-POLE (SWITCH LEG INDICATED WHERE REQUIRED)
  - WALL SWITCH, 2-POLE
  - WALL SWITCH, 3-WAY
  - WALL SWITCH, 4 WAY
  - DIGITAL SWITCH
  - DIGITAL SWITCH KEY SWITCH
  - WALL SWITCH, KEYPED OPERATED, TYPE AS INDICATED
  - WALL SWITCH, 3-WAY, KEYPED OPERATED, TYPE AS INDICATED
  - MANUAL MOTOR STARTING SWITCH
  - WALL SWITCH WITH PILOT LIGHT
  - REMOTE SWITCH
  - WALL SWITCH WITH INTEGRAL OCCUPANCY SENSOR
  - OCCUPANCY SENSOR
  - OCCUPANCY SENSOR WALL MOUNT
  - PHOTO CELL
  - PHOTO CELL WALL MOUNT
  - PLUG LOAD CONTROLLER
  - LIGHTING CONTROLLER
  - LIGHTING FIXTURE TYPE DESIGNATOR, SEE LIGHT FIXTURE SCHEDULE
  - DUPLEX RECEPTACLE, TAMPERPROOF
  - DUPLEX RECEPTACLE, CONTROLLED, TAMPERPROOF
  - DUPLEX RECEPTACLE AT MONITOR
  - DUPLEX RECEPTACLE TAMPERPROOF ABOVE COUNTER
  - DOUBLE DUPLEX TAMPERPROOF RECEPTACLE ONE DUPLEX CONTROLLED, OTHER DUPLEX UNCONTROLLED MOUNTED ABOVE COUNTER
  - DOUBLE DUPLEX TAMPERPROOF RECEPTACLE ONE DUPLEX CONTROLLED, OTHER DUPLEX UNCONTROLLED
  - DOUBLE DUPLEX RECEPTACLE, TAMPERPROOF
  - RECEPTACLE ISOLATED GROUND TYPE, TAMPERPROOF
  - DUPLEX TAMPERPROOF RECEPTACLE GFI TYPE
  - WEATHERPROOF DUPLEX RECEPTACLE (GFI TYPE), TAMPERPROOF
  - SPLIT WIRED TAMPERPROOF RECEPTACLE
  - 1Ø SPECIAL RECEPTACLE AS NOTED
  - 3Ø SPECIAL RECEPTACLE AS NOTED
  - PUSHBUTTON SWITCH
  - ADA DOOR ACTUATOR
  - EQUIPMENT CONNECTION
  - MOTOR CONNECTION
  - DISCONNECT SWITCH
  - FUSED DISCONNECT SWITCH
  - MANUAL MOTOR STARTER
  - MAGNETIC MOTOR STARTER
  - COMBINATION STARTER
  - VARIABLE FREQUENCY DRIVE
  - ECM CONTROLLER
  - FAN CONTROLLER
  - THERMOSTAT
  - JUNCTION BOX
  - BLIND CONNECTION
  - CEILING FAN CONNECTION

- LEGEND**
- VOLUME CONTROL
  - AV SYSTEM OUTLETS
  - CEILING INTERCOM SPEAKER
  - WALL MOUNTED INTERCOM SPEAKER
  - AV SYSTEM SPEAKER
  - WALL MOUNTED AV SYSTEM SPEAKER
  - DIGITAL CLOCK
  - DIGITAL CLOCK/SPEAKER COMBINATION BAFFLE
  - SCOREBOARD
  - INTERCOM SYSTEM CALL SWITCH
  - FUTURE COMPUTER OUTLET WITH 1" CONDUIT TO ABOVE ACCESSIBLE CEILING
  - DATA OUTLET (NUMBER = NUMBER OF RJ45 JACKS, NO NUMBER = 1) WITH 1.25" CONDUIT TO ABOVE CEILING
  - WIRELESS ACCESS POINT
  - VIDEO SURVEILLANCE OUTLET AT CAMERA
  - ACCESS CONTROL OUTLET - 1 DATA CABLE AND #18 POWER CABLE TO MDF/IDF
  - INTERCOM DATA OUTLET
  - VOICE ENHANCEMENT SYSTEM AMP
  - WIRELESS MIC ANTENNA
  - ASSISTED LISTENING ANTENNA
  - REQUEST TO EXIT
  - CARD READER
  - CARD READER, JAMB MOUNTED.
  - DOOR SWITCH
  - MOTION SENSOR
  - MOTION SENSOR WALL MOUNT
  - REQUEST TO EXIT IN DOOR HARDWARE
  - SECURITY KEYPAD
  - ELECTRIC LOCK
  - FIRE ALARM SPEAKER/STROBE
  - FIRE ALARM PULL STATION
  - FIRE ALARM ADA STROBE WALL MOUNTED
  - FIRE ALARM ADA STROBE
  - SMOKE DETECTOR/SENSOR
  - DUCT SMOKE DETECTOR
  - HEAT DETECTOR, FIXED TEMPERATURE
  - HEAT DETECTOR/SENSOR (THERMAL DETECTION)
  - DOOR HOLDER-PROVIDED BY HARDWARE SUPPLIER. CONNECTION BY ELEC.
  - SMOKE DAMPER CONNECTION
  - DOOR HOLDER-PROVIDED BY HARDWARE SUPPLIER. CONNECTION BY ELEC.
  - FIRE ALARM SMOKE DAMPER RELAY, SEE
  - SPRINKLER CONNECTION

- LEGEND**
- EXIST DEVICE/FIXTURE AS INDICATED
  - EXISTING PANCAKE MOLD WITH INTEGRAL DEVICES AS INDICATED.
  - EXIST DEVICE/FIXTURE AS INDICATED TO BE REMOVED
  - CIRCUIT BREAKER
  - SWITCH
  - FUSED SWITCH
  - FUSE
  - TRANSFORMER
  - GROUNDING PER CODES
  - BUS TAP
  - 208V OR 240V PANEL
  - LVR
  - 480V PANEL
  - TRANSFORMER
  - FURNISHED BY OWNER. INSTALLED BY CONTRACTOR
  - FURNISHED BY OWNER. INSTALLED BY OWNER
  - GROUND FAULT CIRCUIT INTERRUPTER
  - ISOLATED GROUND
  - WEATHERPROOF
  - ACCESS CONTROL CIRCUIT AS REQUIRED. PROVIDE IN RACEWAY IN WALLS AND ABOVE NON ACCESSIBLE CEILINGS.
  - AV SYSTEM CIRCUITRY. SEE AV DIAGRAMS.
  - CABLE TRAY
  - FIRE ALARM SYSTEM CIRCUITRY AS REQUIRED BY MANUFACTURER IN METALLIC RACEWAY
  - INTERCOM SYSTEM CIRCUITRY. PROVIDE IN RACEWAY IN WALLS AND ABOVE NON-ACCESSIBLE CEILINGS
  - LOW VOLTAGE CIRCUITRY AS REQUIRED BY MANUFACTURER IN RACEWAY WHERE IN WALLS, ABOVE NON-ACCESSIBLE CEILINGS OR EXPOSED.
  - SECURITY SYSTEM CIRCUITRY AS REQUIRED BY MANUFACTURER. ROUTE IN RACEWAYS WHERE IN WALLS OR ABOVE NON-ACCESSIBLE CEILINGS.
  - DATA AND VOICE CABLES. QUANTITY AND TYPE AS INDICATED BY OUTLET
  - DETAIL INDICATOR WITH SHEET WHERE DRAWN INDICATED
  - SECTION INDICATOR
  - AVAILABLE FAULT CURRENT AS INDICATED
  - FLAG NOTE





1 SITE PLAN - ELECTRICAL  
1" = 20'-0"

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**SOUTH WHIDBEY PARKS  
AQUATIC CENTER**  
PID 812720 MAXWELTON RD  
LANGLEY, WA 98260



**100% DESIGN  
DEVELOPMENT**

ISSUE DATE: DECEMBER 01, 2023

REVISION SCHEDULE		
Rev #	Date	Description

CONTENTS:  
**SITE PLAN -  
ELECTRICAL**

SCALE: AS SHOWN  
DRAWN: AS  
CHECKED: AB  
PROJECT NO: 2022021.000

SHEET:  
**E1.1**

C:\Users\jfitzmaurice\OneDrive\Documents\South Whidbey Aquatic Center 2023\01-11.dwg  
 2023/01/11 10:07 AM



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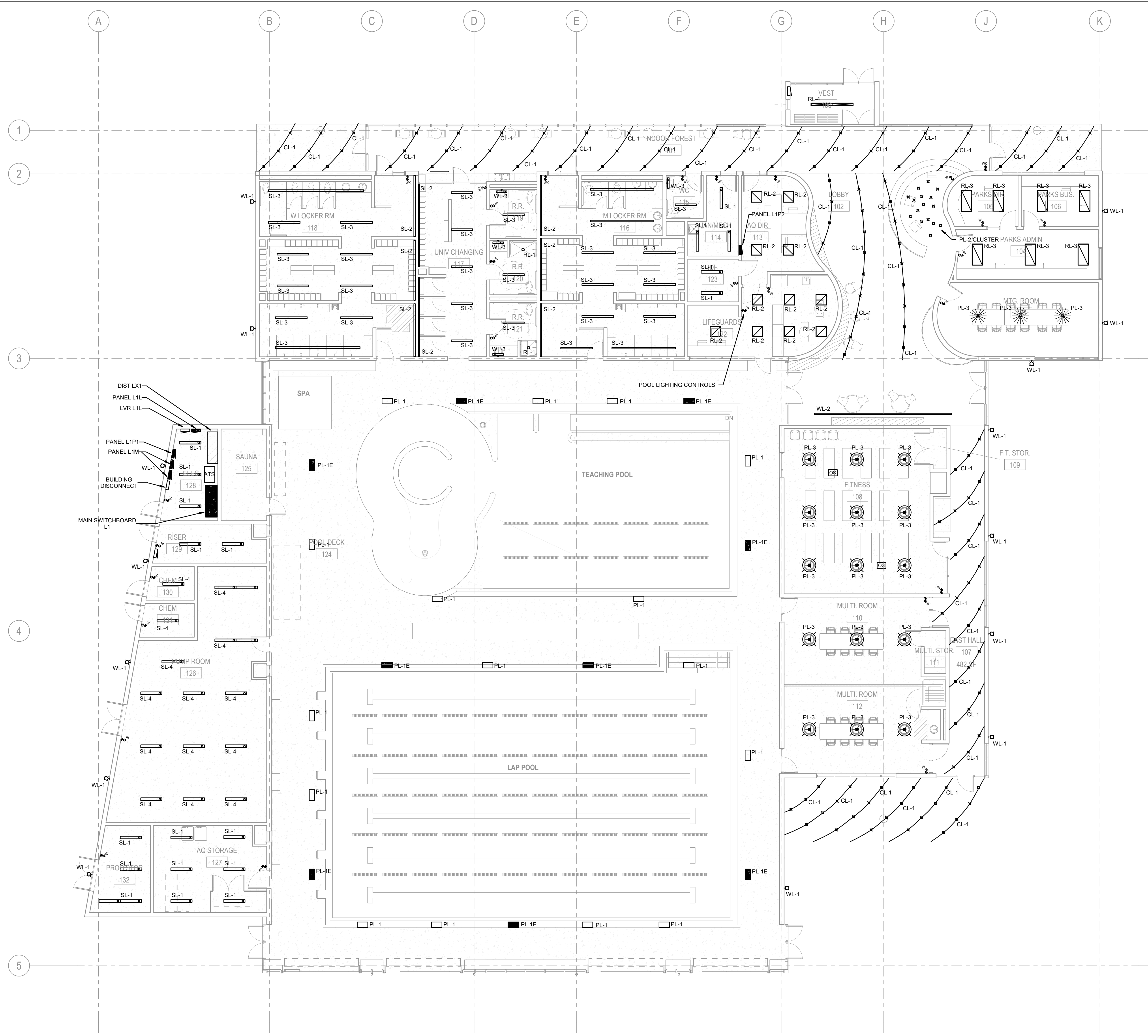
ISSUE DATE: DECEMBER 01, 2023

REVISION SCHEDULE		
Rev #	Date	Description

CONTENTS:  
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 LIGHTING**

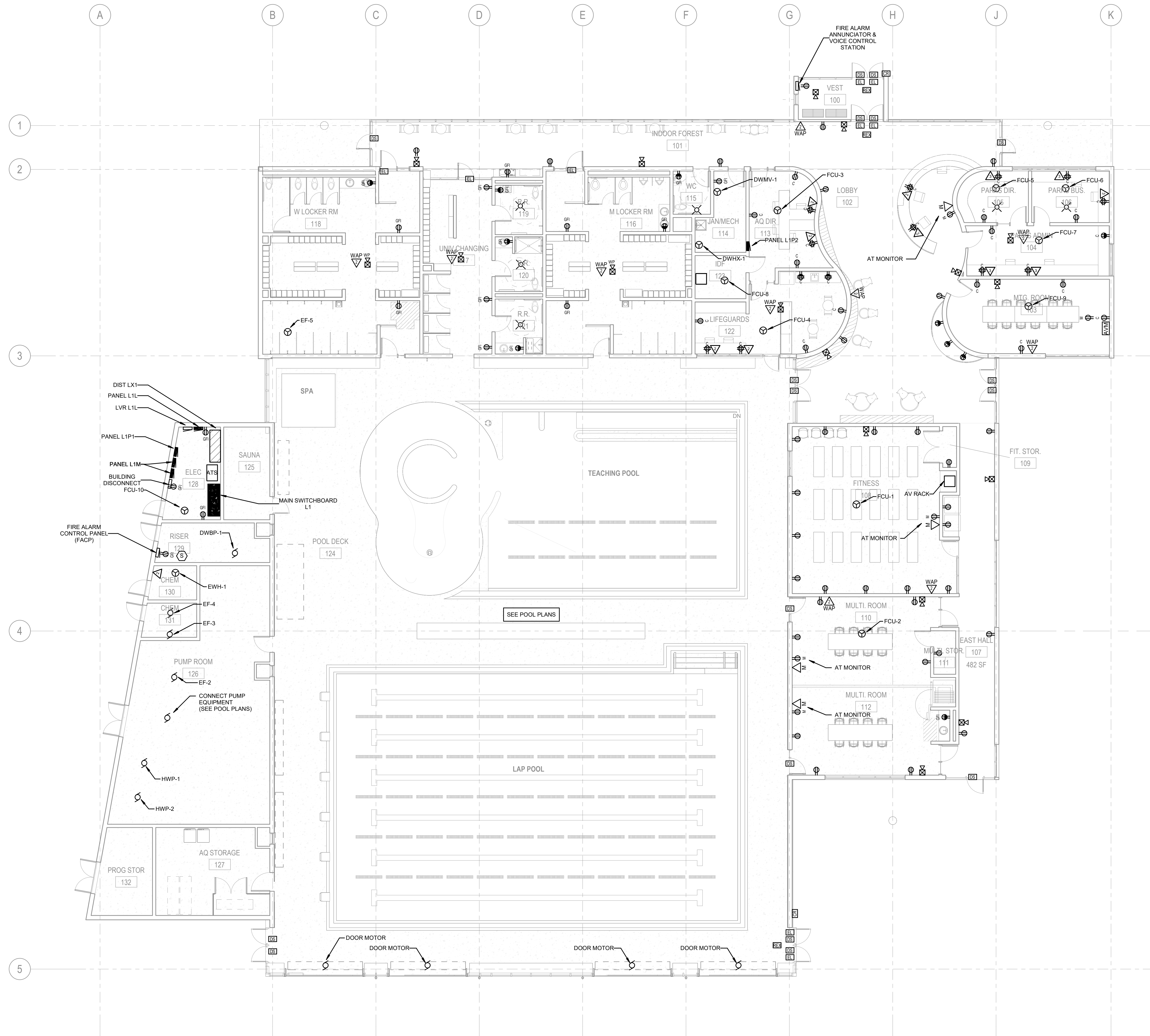
SCALE: 1/8" = 1'-0"  
 DRAWN: AS  
 CHECKED: AB  
 PROJECT NO: 2022021.000

SHEET  
**E2.1**



**1 LEVEL 1 - LIGHTING**  
 1/8" = 1'-0"





**1** LEVEL 1 - ELECTRICAL  
1/8" = 1'-0"

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REVISION SCHEDULE		
Rev #	Date	Description

CONTENTS:  
**1st FLOOR PLAN -  
ELECTRICAL**

SCALE: 1/8" = 1'-0"  
DRAWN: Author  
CHECKED: Checker  
PROJECT NO: 2022021.000

SHEET  
**E3.1**



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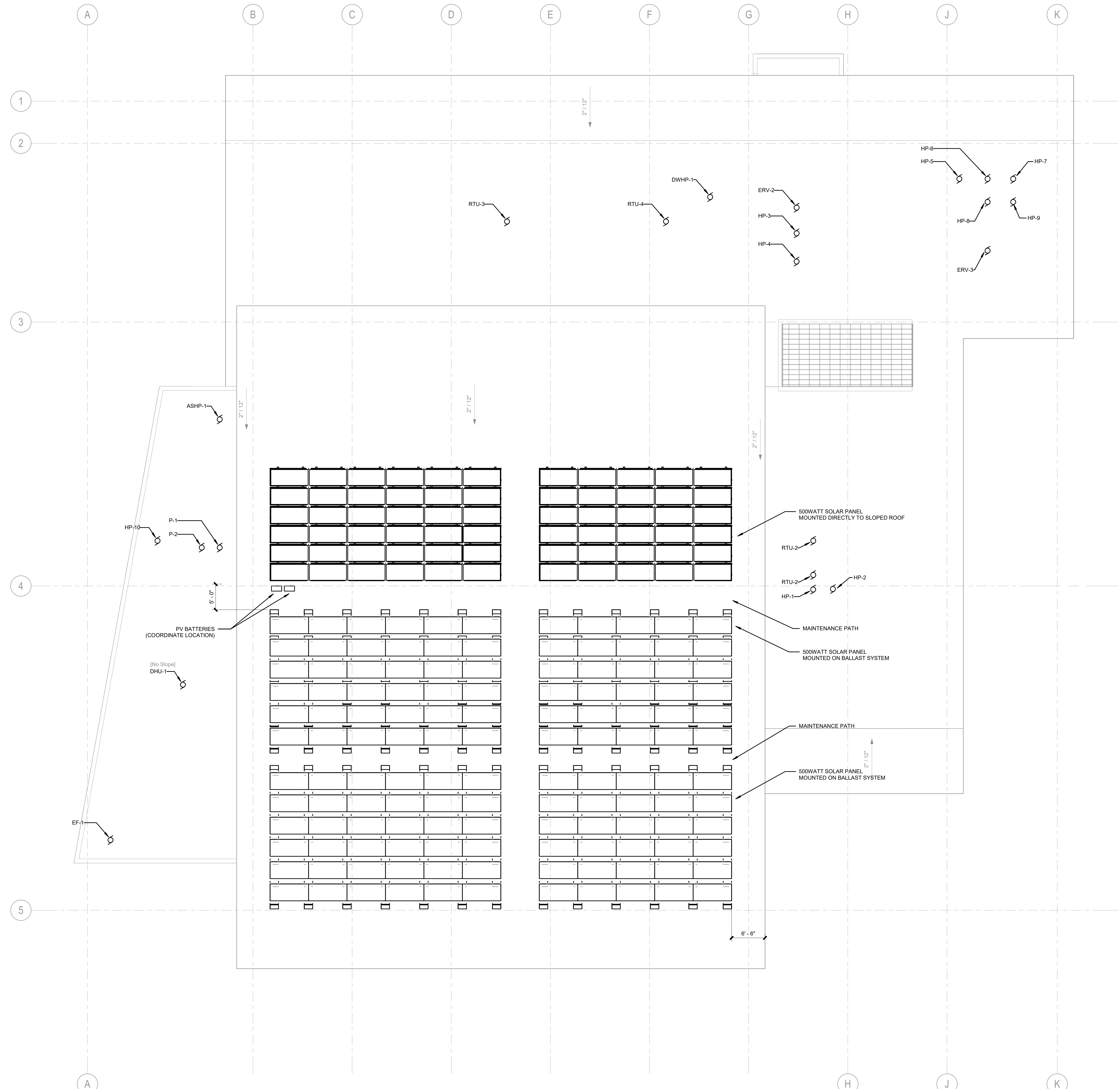
ISSUE DATE: DECEMBER 01, 2023

REVISION SCHEDULE		
Rev #	Date	Description

CONTENTS:  
**ROOF PLAN -  
 ELECTRICAL**

SCALE: 1/8" = 1'-0"  
 DRAWN: Author  
 CHECKED: Checker  
 PROJECT NO: 2022021.000

SHEET  
**E3.2**



**1 ROOF PLAN - ELECTRICAL**  
 1/8" = 1'-0"



**SOUTH WHIDBEY PARKS  
AQUATIC CENTER**

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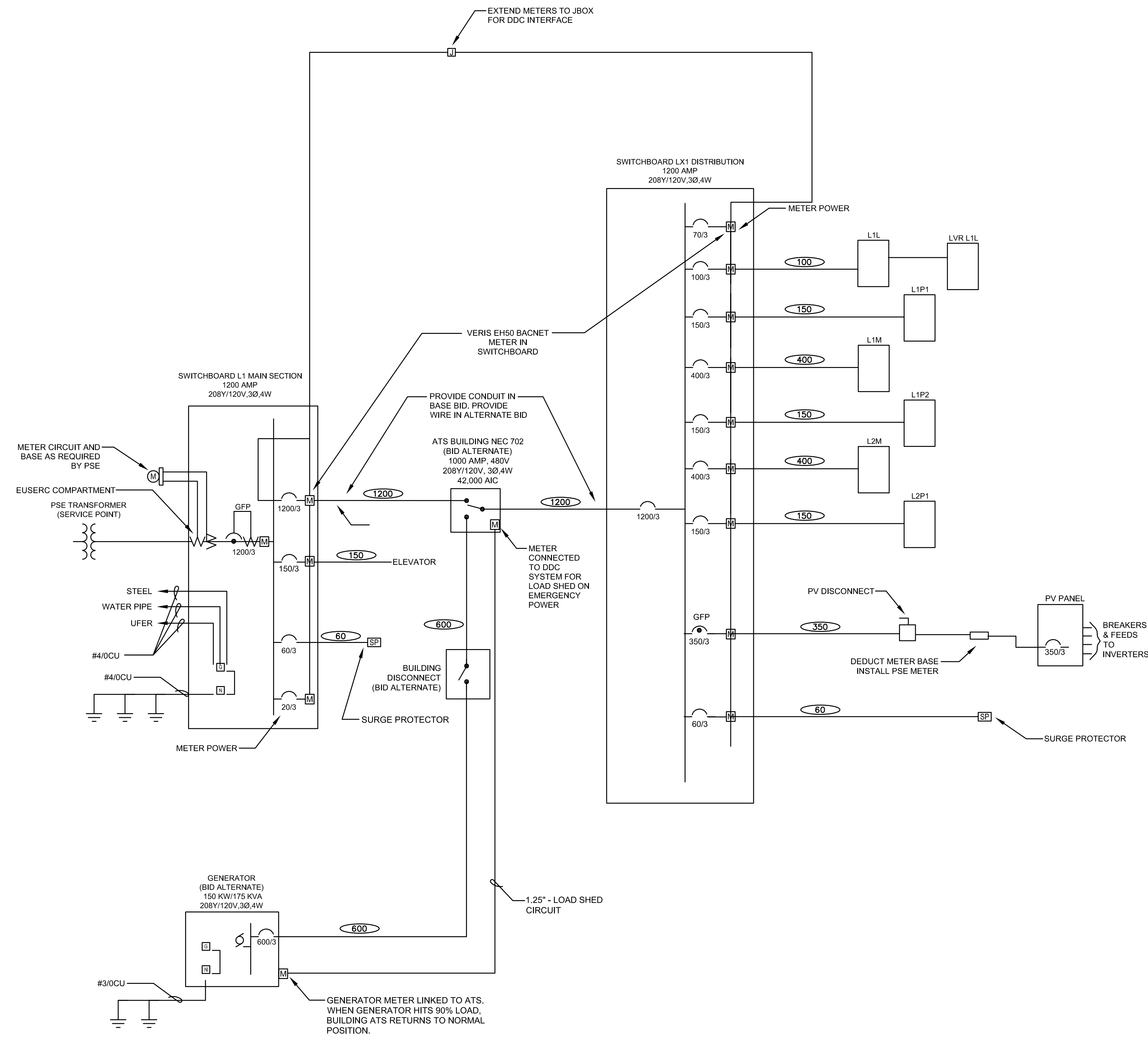
ISSUE DATE: DECEMBER 01, 2023

REVISION SCHEDULE		
Rev #	Date	Description

CONTENTS:  
**ONE LINE  
DIAGRAM**

SCALE: AS SHOWN  
DRAWN: AS  
CHECKED: AB  
PROJECT NO: 2022021.000

SHEET:  
**E6.0**



**1 ONE LINE DIAGRAM**  
NTS



LIGHTING FIXTURE SCHEDULE: SOUTH WHIDBEY AQUATIC CENTER

TYPE	LAMP	LUMEN OUTPUT	CCT	VOLTAGE	MINIMUM CRI	CONTROL	MANUFACTURER	DESCRIPTION	LOCATION
CL-1		780 LUMENS	3000K	24 V	80 CRI	0-10V DIM	BRUCK: SKYLINE EXT-SKY-D-SW-10LM-30K-80-40D-24V-BK-XX-SKY-GLOBE	CATENARY PENDANT WITH 40 DEGREE BEAM SPREAD AND OPAL GLOBE DIFFUSER. PROVIDE POWER SUPPLY AND ALL MOUNTING AND ACCESSORIES FOR A FULLY FUNCTIONAL SYSTEM.	HALLWAYS, MAIN LOBBY, EXTERIOR CANOPY
P	LED 204 W	16,000 LUMENS	3000K	120 V	80 CRI	MOTION SENSOR	GARDCO: PUREFORM COMFORT P26-140L	ARM-MOUNTED LED POLE FIXTURE WITH MOTION RESPONSE OCCUPANCY SENSOR, TYPE 3 OPTIC, AND FULL CUTOFF PERFORMANCE. PROVIDE HIGHLY DIFFUSE, UNIFORMLY ILLUMINATED LENS. UL WET LABEL AND LOW TEMP DRIVER. MOUNT ON 20' FOOT TALL, 4" ROUND, 0.188" ALUMINUM POLE WITH HANDHOLE TO UTILITY VAULT 24R-8-LB POLE BASE. PROVIDE BASE COVER. IN PARKING AND ROAD EXPOSE 2' OF BASE. IN LANDSCAPE AREAS FLUSH WITH GRADE. MOTION SENSOR TO REDUCE TO 30% WHEN NO MOTION.	PARKING
PL-1	LED 435 W	62,560 LUMENS	4000K	120 V	80 CRI	0-10V DIM WIRELESS	LUX DYNAMICS: WAVE+ WAVEP-2-84D-U10-WSP2-DEF2-2P20-B-NAT	HIGH BAY LED LUMINAIRE WITH INDIRECT OPTICS AND DEFLECTOR SHIELD FOR MAXIMUM GLARE CONTROL. EXTRUDED ALUMINUM CONSTRUCTION WITH IK10 POLYCARBONATE LENS. NATATORIUM RATED. 120 DEGREE BEAM ANGLE. PROVIDE CABLE MOUNT SUSPENSION. PROVIDE INTEGRAL NETWORKED WIRELESS MODULE.	POOL
PL-2	LED 7 W	493 LUMENS	3000K	120 V	80 CRI	0-10V DIM WIRELESS	ZANIBONI: TIBI PENDANT P0-TI-124-07-30-A-6-N-XX-2V00-D	1" LED SLIM CYLINDER LED PENDANT WITH DROPPED DIFFUSER. PROVIDE NETWORKED WIRELESS MODULE.	RECEPTION
PL-3	LED 23 W + 55 W	3,037 LUMENS DOWN 7,805 LUMENS UP	3000K	120 V	80 CRI	0-10V DIM WIRELESS	LUMINIS: HOLLOWCORE HC2800-L4L30-UL4L78-120-XXX-MS-NLTAIR2-SPG	30" DIAMETER DECORATIVE LED DRUM WITH DIRECT/INDIRECT OPTICS. PROVIDE INTEGRAL MOTION SENSOR. PROVIDE NETWORKED WIRELESS MODULE.	FITNESS, MULTI ROOMS
PL-4	LED 14 W	1,150 LUMENS	3000K	120 V	90 CRI	0-10V DIM WIRELESS	BRUCK: DELFINA ACOUSTIC WEP-DEL-100-LED-30K-90-XXX-XXX-ACT	39" DECORATIVE ACOUSTIC LED PENDANT. PROVIDE NETWORKED WIRELESS MODULE.	MEETING ROOM
RL-1	LED 18.6 W	1,500 LUMENS	3000K	120 V	90 CRI	0-10V DIM WIRELESS	PRESCOLITE: LITESTRY 4" SHOWER DOWNLIGHT LTR-4RD-SL-15L-DM1-(WIRELESS)-LTR-4RD-T-SH-SL-30K-9-XX-GML	RECESSED 4" NON CONDUCTIVE LED DOWNLIGHT WITH TEMPERED GLASS LENS. UL WET LABEL. PROVIDE INTEGRAL NETWORKED WIRELESS MODULE.	SHOWERS
RL-2	40W	5000 LUMENS	3000K	120 V	90 CRI	0-10V DIM WIRELESS	METALUX: 22CGTX-50HE-K8XX-DGLS-90CRI	2 X4 LIGHT PANEL WITH FLAT ACRYLIC LENS WITH INTEGRAL WIRELESS DUAL TECHNOLOGY MOTION SENSOR AND PHOTOCELL	OFFICE
RL-3	47W	6000 LUMENS	3000K	120 V	90 CRI	0-10V DIM WIRELESS	METALUX: 24CGTX-65HE-K8XX-DGLS-90CRI	2 X4 LIGHT PANEL WITH FLAT ACRYLIC LENS WITH INTEGRAL WIRELESS DUAL TECHNOLOGY MOTION SENSOR AND PHOTOCELL	OFFICE
RL-4	8.25 W/FT	625 LUMENS/FT	3000K	120 V	90 CRI	0-10V DIM WIRELESS	FOCAL POINT: SEEM 2 LED FSM2L-FL-625-30K-1C-UNV-XX	2.5" APERTURE RECESSED LINEAR LED SLOT FIXTURE WITH EXTRUDED ALUMINUM HOUSING AND EXTRUDED ACRYLIC FROSTED LENS. SEE PLANS FOR CONTINUOUS RUN LENGTHS. PROVIDE INTEGRAL NETWORKED WIRELESS MODULE.	VESTIBULE
SL-1	LED 40 W	4,500 LUMENS	3000K	120 V	90 CRI	0-10V DIM WIRELESS	COLUMBIA MPS-4-30-LW-C-W-ED-U-(WIRELESS)-CM24SCF3-KIT	SURFACE MOUNTED LENSED LED STRIPLIGHT. INTEGRAL OCCUPANCY/DAYLIGHT SENSOR WITH NETWORKED WIRELESS MODULE.	BACK OF HOUSE
							LITHONIA		
							METALUX		
WL-1	LED 31.2 W	3,000 LUMENS	3000K	277V	80 CRI	0-10V DIM	GOTHAM: EVO 4" WALL CYLINDER EVO4WC-30/30-AR-WD-LSS-277-GZ10-JBX-DNWL	4" WALL MOUNT CYLINDER WITH SEMI-SPECULAR REFLECTOR AND WIDE DISTRIBUTION. UL LISTED FOR WET LOCATIONS. PROVIDE INTEGRAL EMERGENCY BATTERY PACK.	EXTERIOR WALL
							PORTFOLIO LER4B		
WL-2	LED 6.5 W/FT	625 LUMENS/FT	3000K	120 V	90 CRI	0-10V DIM WIRELESS	FOCAL POINT: SEEM 2 LED ASSYMETRIC FSM2ALS-FLL-625LF-30K-1C-UNV-LD1-(WIRELESS)-C48-XX	2.5" APERTURE PENDANT MOUNT LINEAR LED SLOT FIXTURE WITH EXTRUDED ALUMINUM HOUSING AND FROSTED LENS. PROVIDE DIRECT-ONLY ASSYMETRIC OPTICS. AIM AT WALL. PROVIDE INTEGRAL DRIVER. SEE PLANS FOR CONTINUOUS RUN LENGTHS. PROVIDE INTEGRAL OCCUPANCY/DAYLIGHT SENSOR WITH NETWORKED WIRELESS MODULE.	MAIN LOBBY ART WALL
WL-3	LED 17 W	3,700 LUMENS	3000K	120 V	90 CRI	0-10V DIM WIRELESS	VISA LIGHTING: SEQUENCE CB5203-L30K-H-MVOLT	2-FT WALL MOUNT VANITY LED FIXTURE. MOUNT HORIZONTAL OVER MIRROR. PROVIDE INTEGRAL DRIVER WITH NETWORKED WIRELESS MODULE.	RESTROOMS
							BLACKJACK: LINO		
							TECH LIGHTING: FINN		

LIGHTING FIXTURE SCHEDULE: SOUTH WHIDBEY AQUATIC CENTER

TYPE	LAMP	LUMEN OUTPUT	CCT	VOLTAGE	MINIMUM CRI	CONTROL	MANUFACTURER	DESCRIPTION	LOCATION
X	LED 2.1 W			120 V			DUAL LITE: SE-G-I	CEILING DIE CAST LED EXIT SIGN WITH BATTERIES WITH SELF DIAGNOSTICS, BATTERY BACKUP AND ALL MOUNTING ACCESSORIES. PROVIDE ARROWS AND FACES AS SHOWN ON DRAWINGS. PROVIDE WHITE BODY WITH GREEN LETTERS AND UNIFORM LENS OVER LED.	EGRESS PATH
							MCPHILBEN: ER55L		
							CHLORIDE: CE-11300-55L3G		
							SURE-LITES: CAX-7		
							BEGHELLI: FME		
							LITHONIA: LE		
XW								SAME AS X EXCEPT WALL MOUNT	EGRESS PATH
X2				120 V			SURE-LITES: SELA SELA-29-SD-SELAC1	ARCHITECTURAL BATTERY HEAD UNIT. PROVIDE SELF DIAGNOSTICS.	EGRESS PATH

WHERE (WIRELESS) IS INDICATED IN PART NUMBER, ALL WIRELESS CONTROLLERS AND ASSOCIATED COMPONENTS SHALL BE OF ONE MANUFACTURER. ALL COLORS, FINISHES, ETC ARE BY ARCHITECT. MOUNTING HEIGHTS PER ARCHITECTURAL ELEVATIONS.

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AQUATIC CENTER**  
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LANGLEY, WA 98260



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DEVELOPMENT**

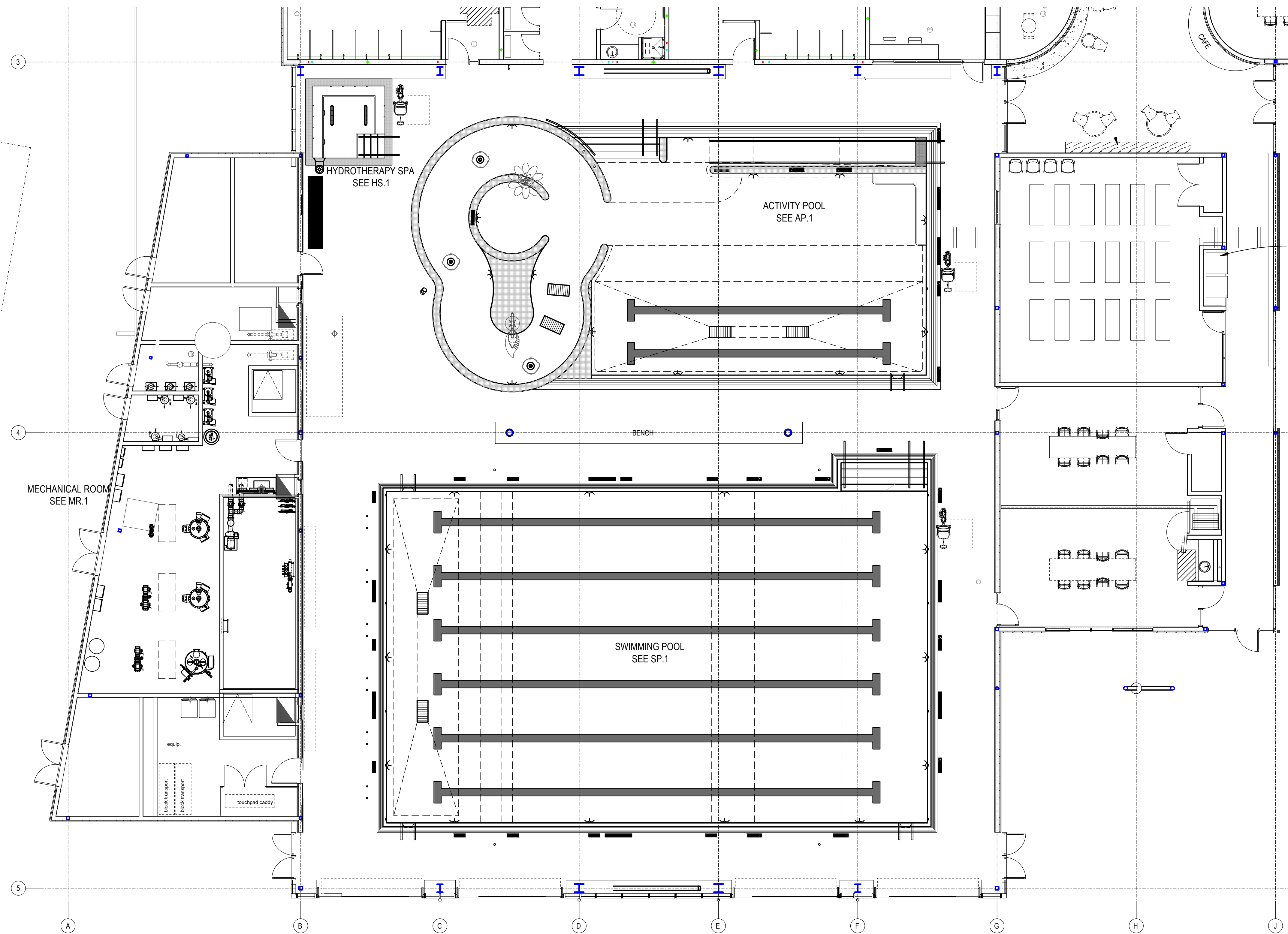
ISSUE DATE: DECEMBER 01, 2023

REVISION SCHEDULE		
Rev #	Date	Description

CONTENTS:  
**LIGHT  
FIXTURE  
SCHEDULE**  
SCALE: AS SHOWN  
DRAWN: AS  
CHECKED: AB  
PROJECT NO: 2022021.000

SHEET:  
**E7.0**





**SWIMMING POOL DATA**

SURFACE AREA	=	3,501 SQ. FT.
PERIMETER	=	250 FT.
DEPTH	=	3'-6" TO 9'-2"
VOLUME	=	140,485 GAL.
6 HR TURNOVER	=	390 GPM

**ACTIVITY POOL DATA**

SURFACE AREA	=	2,269 SQ. FT.
PERIMETER	=	198 FT.
DEPTH	=	0'-0" TO 4'-0"
VOLUME	=	51,427 GAL.
4 HR TURNOVER	=	214 GPM

**HYDROTHERAPY SPA DATA**

SURFACE AREA	=	100 SQ. FT.
PERIMETER	=	40 FT.
DEPTH	=	3'-6"
VOLUME	=	1,593 GAL.
30 MIN. TURNOVER	=	53 GPM



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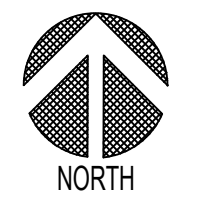
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REVISION SCHEDULE		
Rev #	Date	Description

CONTENTS:  
**AQUATIC AREA  
 PLAN**

SCALE: As Indicated  
 DRAWN: Author  
 CHECKED: Checker  
 PROJECT NO: 2022021.000

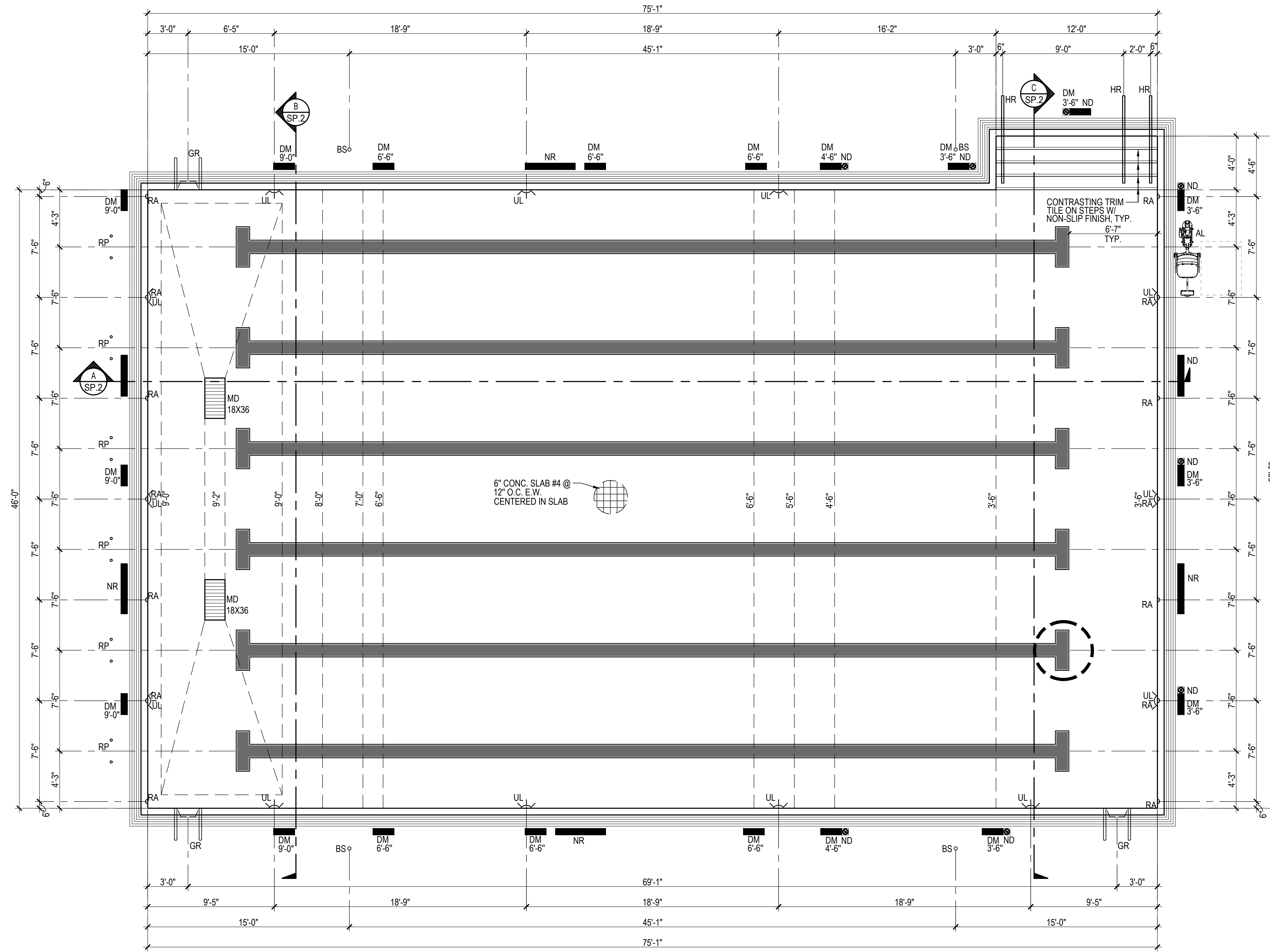
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**SP.0**





SWIMMING POOL DATA	
SURFACE AREA	= 3,501 SQ. FT.
PERIMETER	= 250 FT.
DEPTH	= 3'-6" TO 9'-2"
VOLUME	= 140,485 GAL.
6 HR TURNOVER	= 390 GPM

LEGEND	
HR	= HANDRAIL
DM	= DEPTH MARKER
ND	= NO DIVING
NR	= NO RUNNING
MD	= MAIN DRAIN
UL	= UNDERWATER LIGHT
WLC	= WATER LEVEL CONTROL
AL	= ACCESSIBLE LIFT



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Rev #	Date	Description

CONTENTS:  
**SWIMMING POOL  
 LAYOUT**

SCALE: As Indicated  
 DRAWN: Author  
 CHECKED: Checker  
 PROJECT NO: 202201000

SHEET:  
**SP.1**

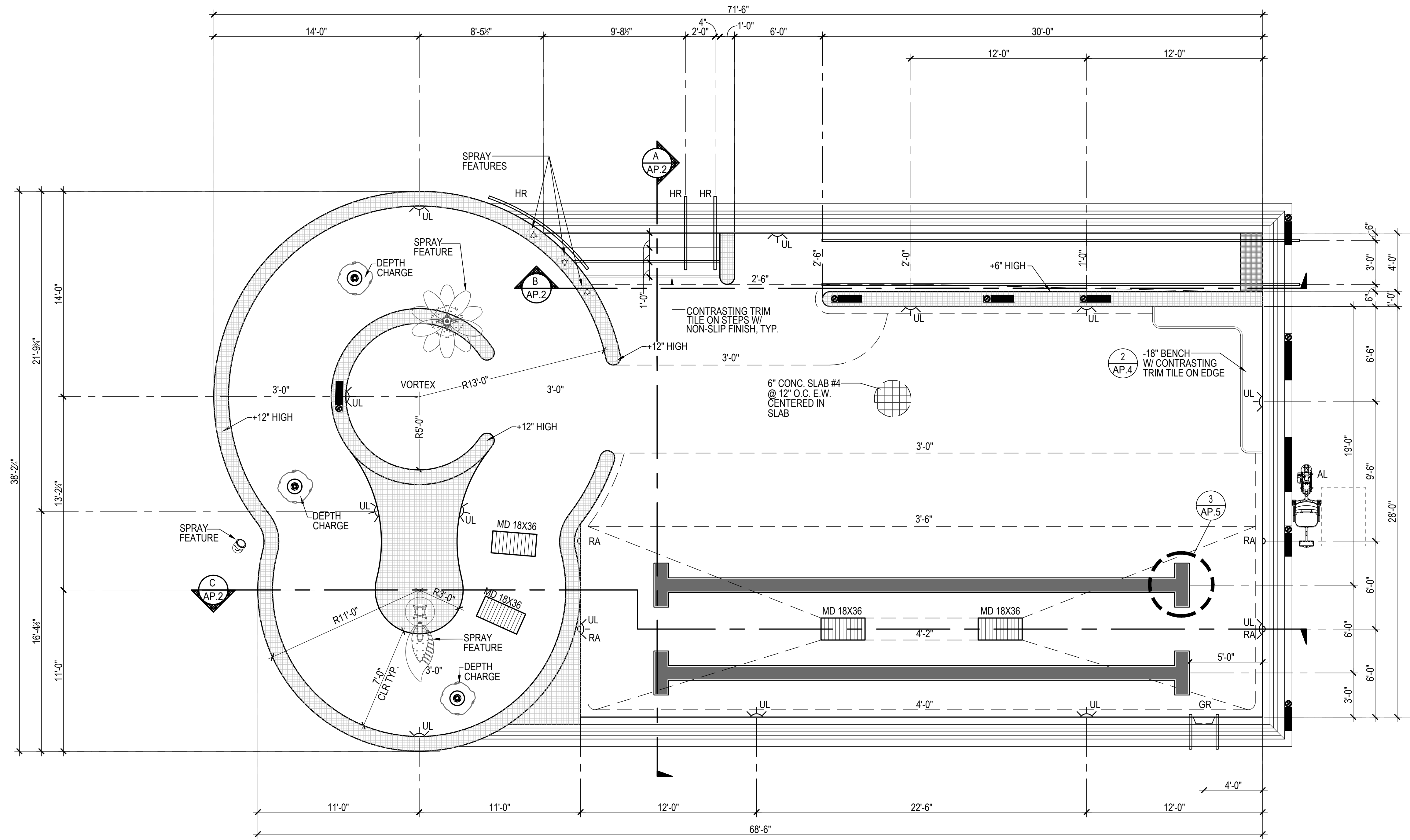






ACTIVITY POOL DATA	
SURFACE AREA	= 2,269 SQ. FT.
PERIMETER	= 198 FT.
DEPTH	= 0'-0" TO 4'-0"
VOLUME	= 51,427 GAL.
4 HR TURNOVER	= 214 GPM

LEGEND		
HR	= HANDRAIL	1 AP.4
DM	= DEPTH MARKER	4 AP.5
ND	= NO DIVING	56 AP.5
NR	= NO RUNNING	5 AP.5
MD	= MAIN DRAIN	1 AP.6
UL	= UNDERWATER LIGHT	1 AP.7
WLC	= WATER LEVEL CONTROL	6 AP.7
AL	= ACCESSIBLE LIFT	1 AP.8
RA	= ROPE ANCHOR	5 AP.4
GR	= GRABRAIL	6 AP.4



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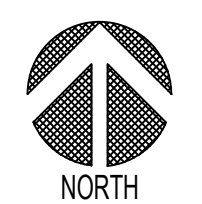
ISSUE DATE: DECEMBER 01, 2023

REVISION SCHEDULE		
Rev #	Date	Description

CONTENTS:  
**ACTIVITY POOL  
 PLAN**

SCALE: As Indicated  
 DRAWN: Author  
 CHECKED: Checker  
 PROJECT NO: 2022021.000

SHEET:  
**AP.1**







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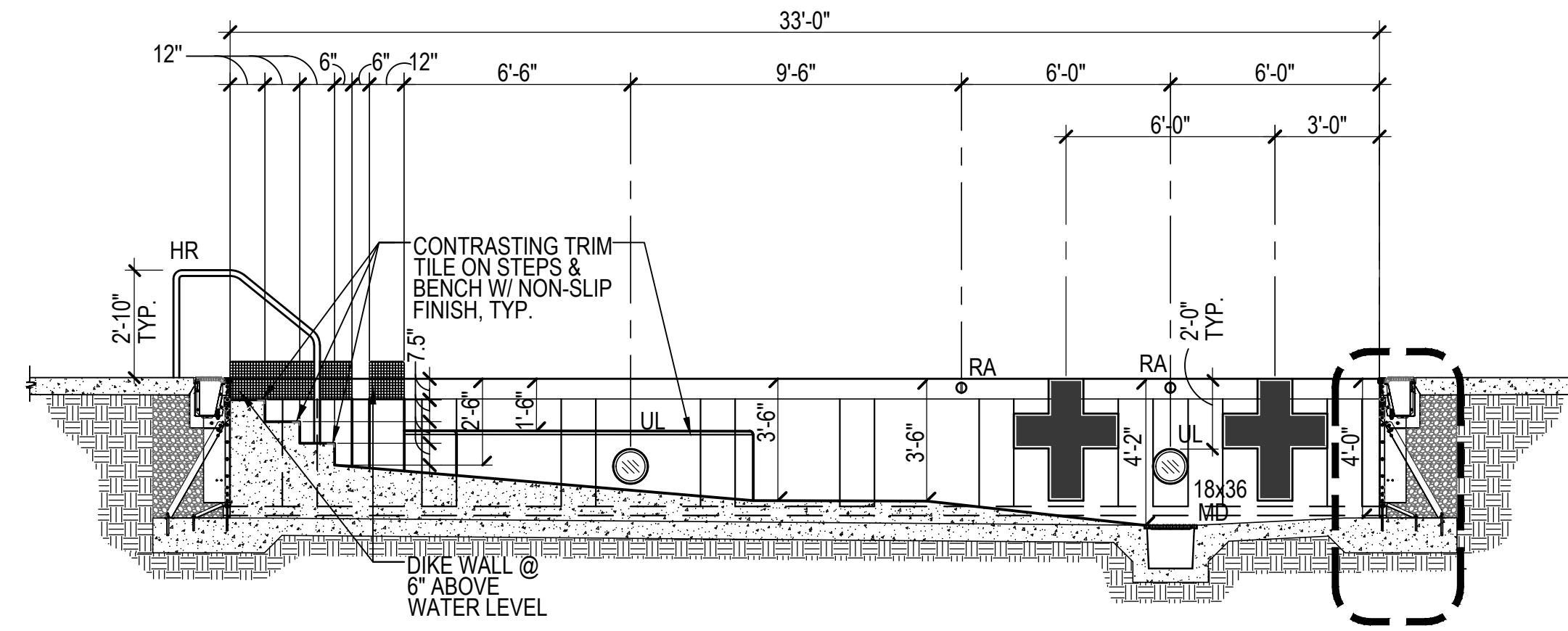
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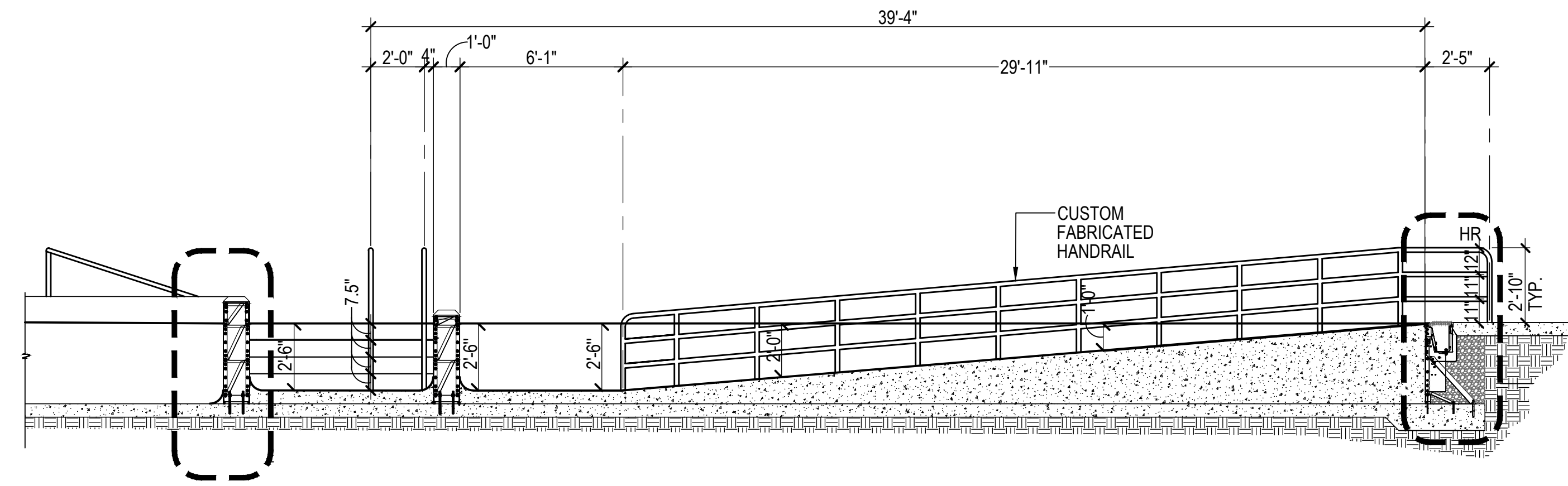
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**ACTIVITY POOL SECTIONS**

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PROJECT NO: 2022021.000

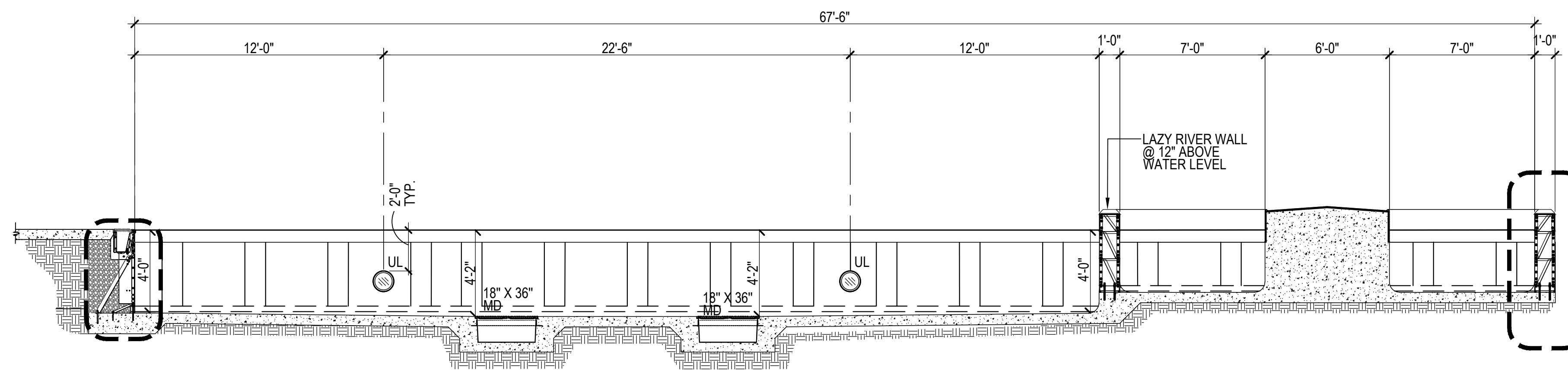
SHEET:  
**AP.2**



**A** ACTIVITY POOL SECTION 1/4"=1'-0"



**B** ACTIVITY POOL SECTION 1/4"=1'-0"



**C** ACTIVITY POOL SECTION 1/4"=1'-0"





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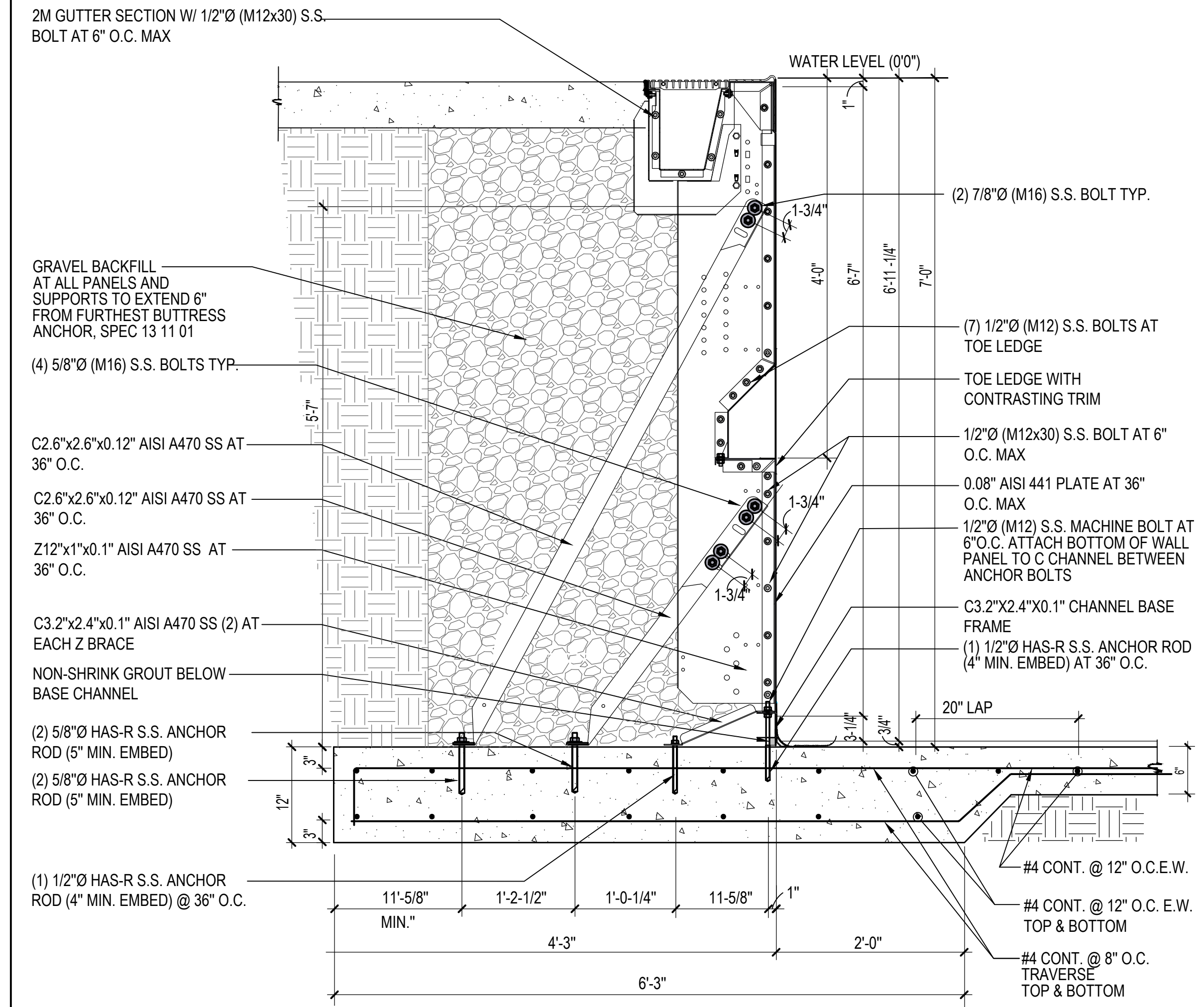
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Rev #	Date	Description

CONTENTS:  
**DETAILS**

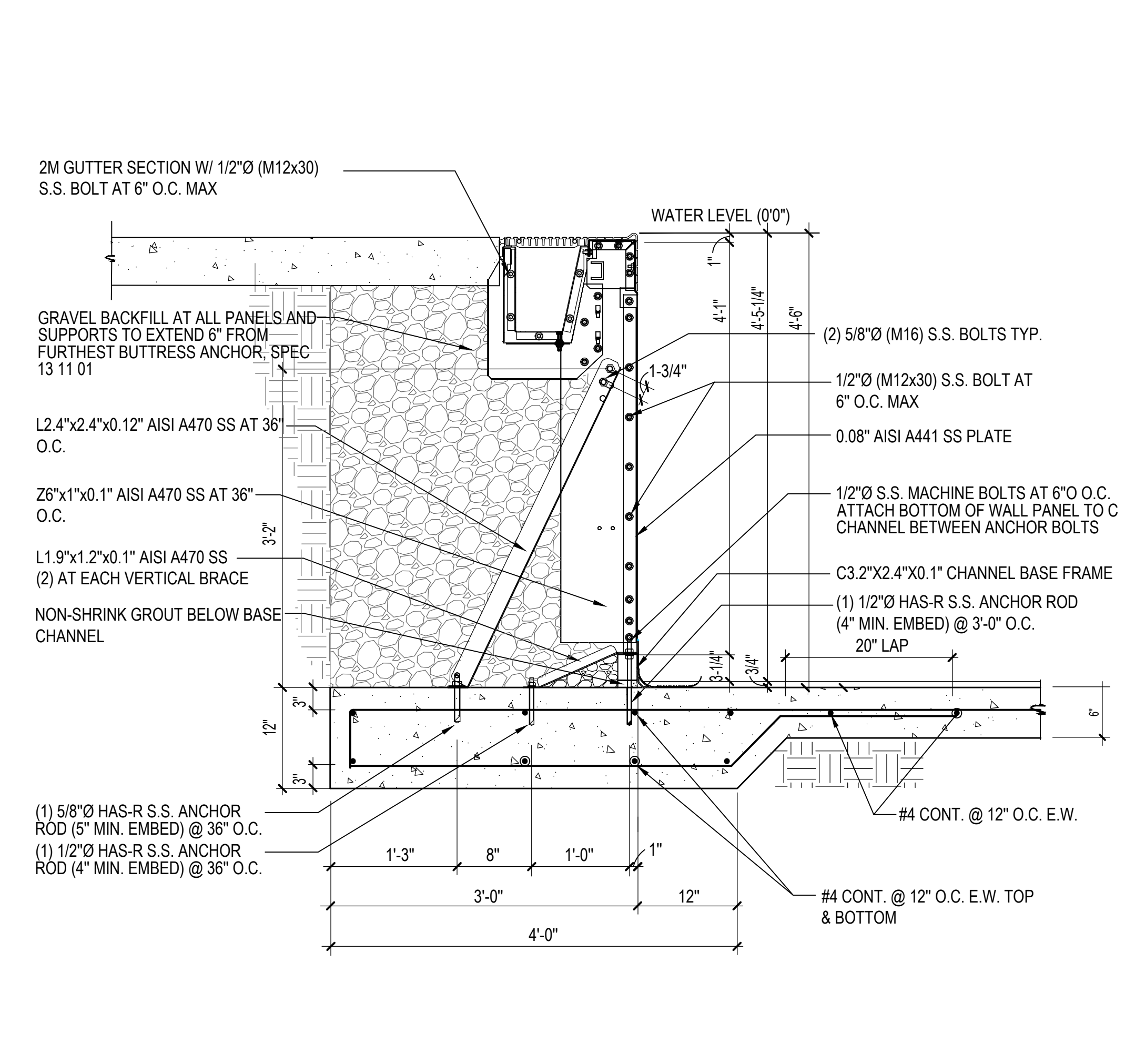
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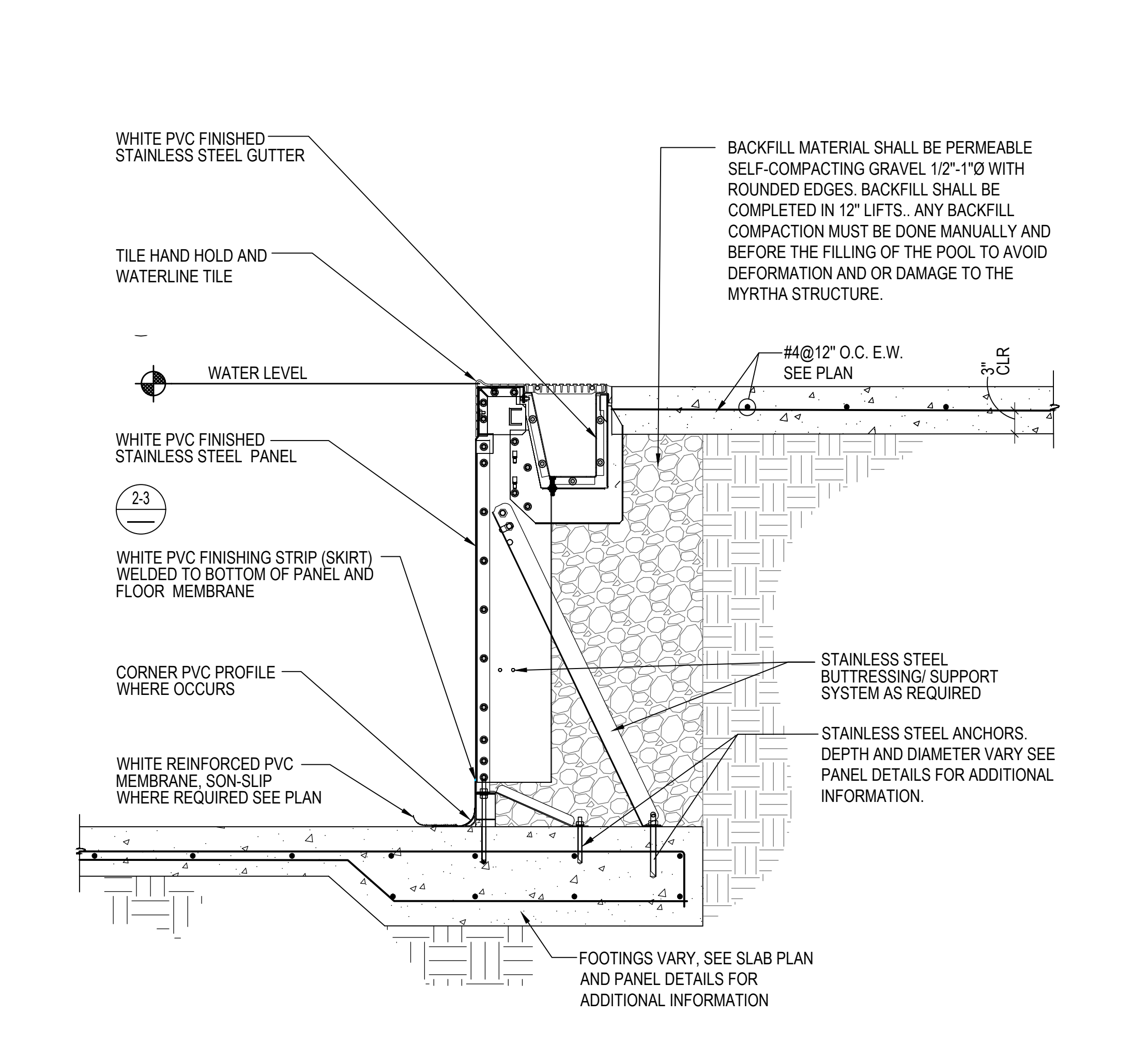
**AP.3**



- NOTES:  
4 SEE CONCRETE NOTES FOR ADDITIONAL INFORMATION  
6 SEE TESTING LOADS FOR ALL MACHINE BOLT CONNECTIONS AND ANCHORS.  
1 SP.1 SEE SP.1 FOR DESIGN CRITERIA  
6 ALL HILTI ANCHOR RODS ARE SET WITH HILTI HIT-HY200 V3 EPOXY



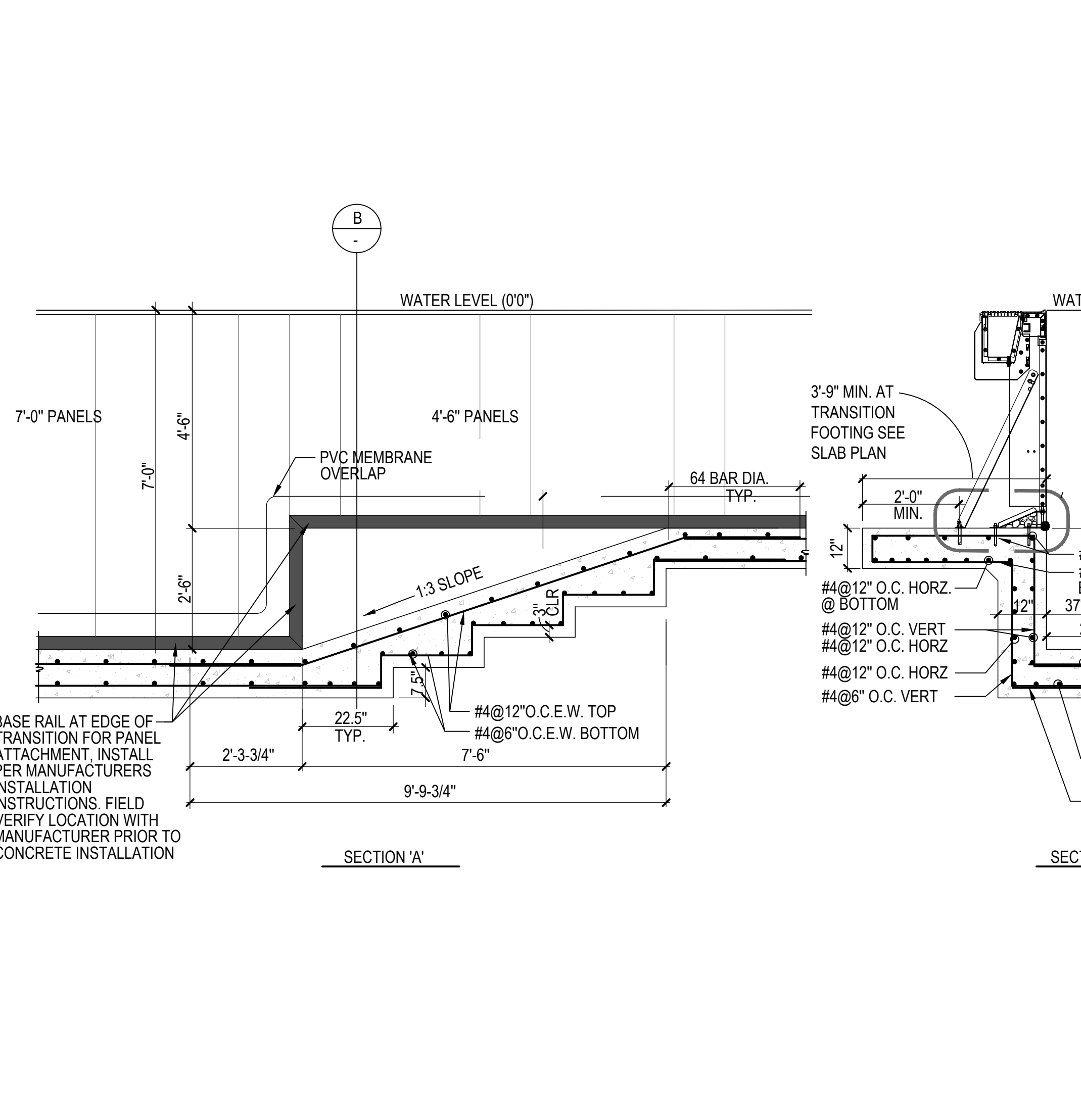
- NOTES:  
4 SEE CONCRETE NOTES FOR ADDITIONAL INFORMATION  
6 SEE TESTING LOADS FOR ALL MACHINE BOLT CONNECTIONS AND ANCHORS.  
1 SP.1 SEE SP.1 FOR DESIGN CRITERIA  
6 ALL HILTI ANCHOR RODS ARE SET WITH HILTI HIT-HY200 V3 EPOXY



- NOTE:  
WALL PANEL ASSEMBLY, GUTTER, BUTTRESSES, ANCHORS, LINER AND ALL ASSOCIATED APPURTENANCES TO BE INSTALLED PER THE MANUFACTURERS INSTRUCTIONS & RECOMMENDATIONS.

**1 TYPICAL POOL WALL FINISH 1"=1'-0"**      **2 COMPETITION POOL S.S. POOL WALL 4'-6" DEPTH 1"=1'-0"**      **3 COMPETITION POOL S.S. POOL WALL 7'-0" DEPTH 1"=1'-0"**

- CONCRETE NOTES:**
- THE MINIMUM ULTIMATE COMPRESSIVE STRENGTH AT 28 DAYS WITH A 0.40-0.45 MAX. WATER/CEMENT RATIO  
POOL = 4000 PSI  
SLAB-ON-GRADE = 4000 PSI
  - CONTINUOUS INSPECTION BY AN APPROVED INSPECTOR IS REQUIRED OF ALL CONCRETE PLACEMENT.
  - ALL CEMENT USED SHALL CONFORM TO A.S.T.M. C-150 TYPE II
  - FINE AND COARSE AGGREGATE SHALL CONFORM TO A.S.T.M. C-33. MAXIMUM SIZE OF AGGREGATE TO BE 1".
  - CONCRETE MIX DESIGNS SHALL BE BASED UPON ACI-318 SECTIONS 19.3.2 AND 26.4.2.
  - CONCRETE SHALL BE TESTED AND INSPECTED PER SECTION IBC 1705A.3 AND 1905A.1.15.
  - REMOVAL OF FORMS SHALL COMPLY WITH ACI-318 SECTION 26.11.2.
  - ALL REINFORCING SHALL BE ASTM A-615, GRADE 60, UNLESS OTHERWISE NOTED. LAPS SHALL BE 64 BAR DIA. SEE STANDARD SPLICING AND CORNER DETAILS
- SHOTCRETE NOTES:**
- SHOTCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH, AS LISTED BELOW, AT 28 DAYS. SHOTCRETE MATERIAL SHALL HAVE A WATER/CEMENT RATIO OF 0.40-0.45 PER ACI 506R, PART 2, PRODUCTS, SECTION 2.5.3.3, WET-MIX PROCESS.  
POOL WALLS = 4,000 PSI  
POOL STAIRS = 4,000 PSI
  - CONTINUOUS INSPECTION BY AN APPROVED INSPECTOR IS REQUIRED OF ALL SHOTCRETE PLACEMENT.
  - ALL CEMENT USED SHALL CONFORM TO A.S.T.M. C-150 TYPE II
  - FINE AND COARSE AGGREGATE SHALL CONFORM TO A.S.T.M. C-33, AND SHALL CONFORM TO COARSE AGGREGATE GRADING NO. 2 PER ACI 506R TABLE 1.1.1. MAXIMUM SIZE OF AGGREGATE TO BE 1".
  - SHOTCRETE MIX DESIGNS SHALL BE PER CBC SECTION 1908A.2.
  - SHOTCRETE SHALL BE TESTED AND INSPECTED PER IBC SECTION 1705A.3, 1705A.19 AND 1908A.10
  - ANCHOR BOLTS, ANCHORS, DOWELS, INSERTS, ETC. SHALL BE SECURELY TIED IN PLACE PRIOR TO PLACING OF SHOTCRETE.
  - ALL REINFORCEMENT WITHIN SHOTCRETE SHALL MAINTAIN MINIMUM 2" CLEAR NON-CONTACT SPLICES.
  - THE FILM OF LAITANCE WHICH FORMS ON THE SURFACE OF THE SHOTCRETE SHALL BE REMOVED WITHIN APPROXIMATELY TWO HOURS AFTER APPLICATION BY BRUSHING WITH A STIFF BRUSH. IF THIS IS NOT REMOVED WITHIN TWO HOURS, IT SHALL BE REMOVED BY THOROUGH WIRE BRUSHING OR SAND BLASTING. CONSTRUCTION JOINTS OVER EIGHT HOURS OLD SHALL BE THOROUGHLY CLEANED WITH AIR AND WATER PRIOR TO RECEIVING SHOTCRETE.
  - ALL REINFORCING SHALL BE ASTM A-615, GRADE 60, UNLESS OTHERWISE NOTED. LAPS SHALL BE 64 BAR DIA.



**5 STEPPED FOOTING AT PANEL TRANSITION 1/2"=1'-0"**

**EPOXY REBAR PULL TESTING LOADS**

BAR SIZE	DEPTH	PRODUCT	TEST VALUE
#4	3" EMBED	HILTI HIT-HY 200 V3 (ICC ESR-4868)	1,050 LBS

INSTALLATION PARAMETERS:  
 • MINIMUM CONCRETE AGE: 21 DAYS  
 • DRILLING: HAMMER DRILLED  
 • TEMPERATURE: 14-114°F  
 • MOISTURE CONDITION: DRY OR SATURATED  
 • CLEANING: AUTOMATIC OR COMPRESSED-AIR

**EPOXY ANCHOR PULL TESTING LOADS**

LOCATION	DIAMETER	DEPTH	TEST VALUE	TESTING %
PANEL	1/2"Ø	4" EMBED	5,250 LBS	100%**
4'-6" PANEL	5/8"Ø	5" EMBED	8,250 LBS	100%
7'-0" PANEL	1/2"Ø	4" EMBED	5,250 LBS	100%**
PANEL	5/8"Ø	5" EMBED	8,250 LBS	100%

ALL STAINLESS STEEL ALL THREAD ANCHORS SHALL BE SET W/ HILTI HIT-HY 200 V3 EPOXY ADHESIVE ANCHORING SYSTEM (ICC ESR-4868)  
 \*\* AT CHANNEL BASE FRAME ONLY 10% OF 1/2"Ø ANCHORS SHALL BE TESTED PER IBC 1910A.5.3 EXCEPTION 2

INSTALLATION PARAMETERS:  
 • MINIMUM CONCRETE AGE: 21 DAYS  
 • DRILLING: HAMMER DRILLED  
 • TEMPERATURE: 14-114°F  
 • MOISTURE CONDITION: DRY OR SATURATED  
 • CLEANING: AUTOMATIC OR COMPRESSED-AIR

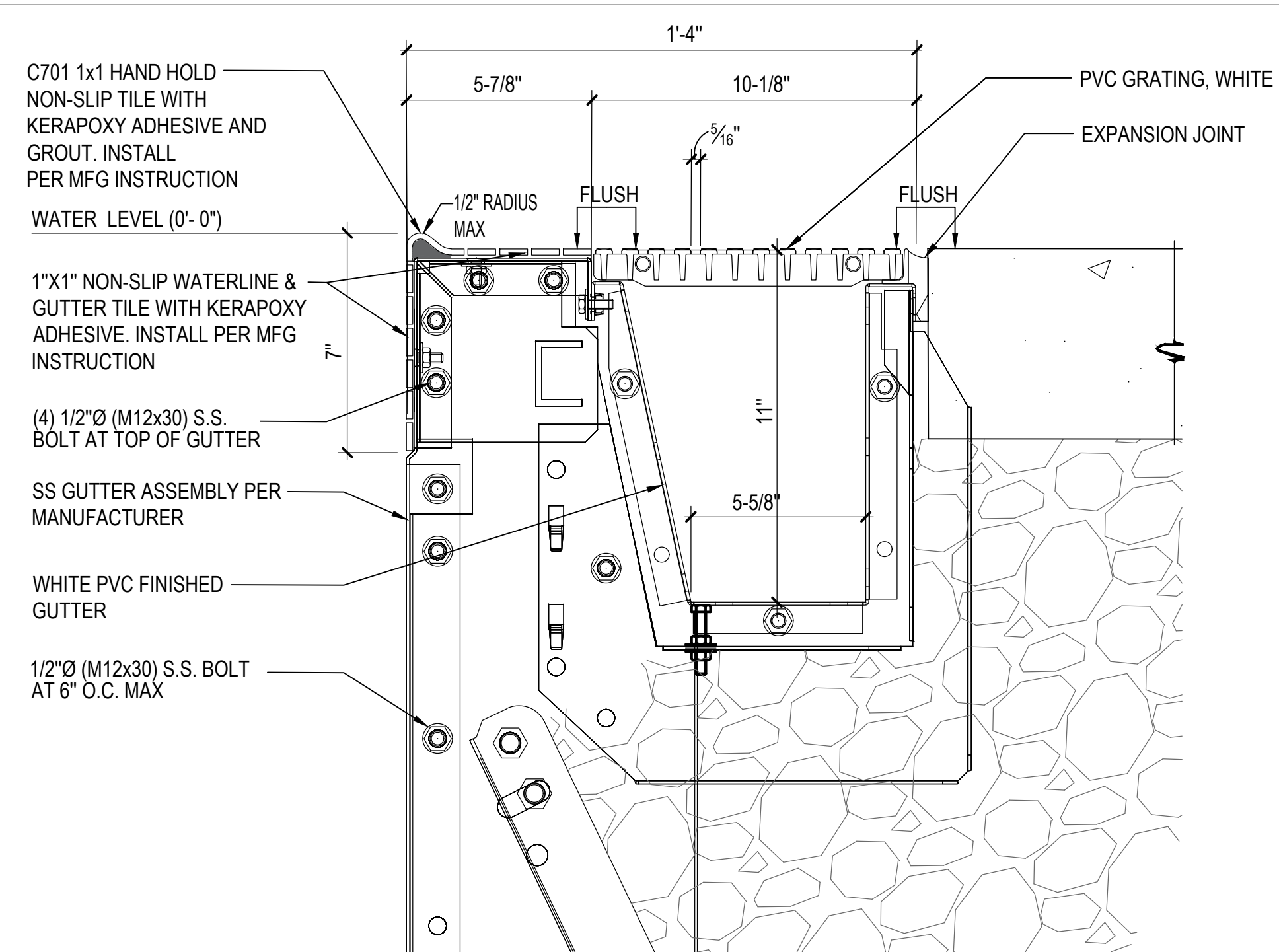
**MACHINE BOLT TORQUE TESTING LOADS**

DIAMETER	LOAD	SEE NOTES
1/2"Ø	4,750 LBS	SEE NOTES
5/8"Ø	7,400 LBS	SEE NOTES

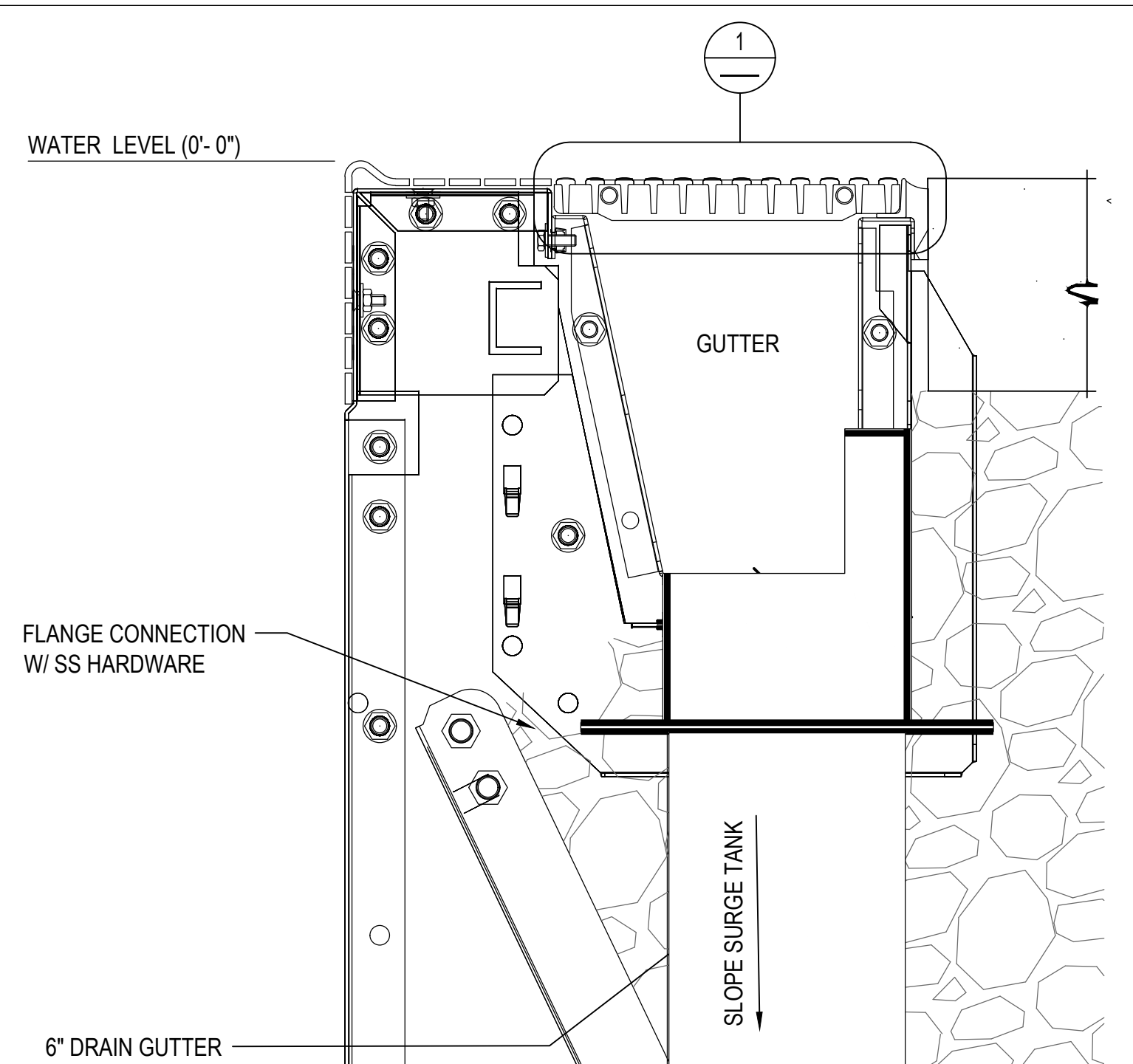
• BOLTED CONNECTIONS SHALL BE INSPECTED PER IBC 2022-AISC 360 M2.5 BOLTS BETWEEN PANELS SHALL BE PERIODICALLY INSPECTED  
 • BOLTS BETWEEN BUTTRESS AND PANELS SHALL BE INSPECTED CONTINUOUSLY.  
 • BOLT TESTING AND FIELD VERIFICATION SHALL BE THE SAMPLES PER 400 BOLTS PER IBC 2213A.1

**6 TESTING LOADS 1/2"=1'-0"**

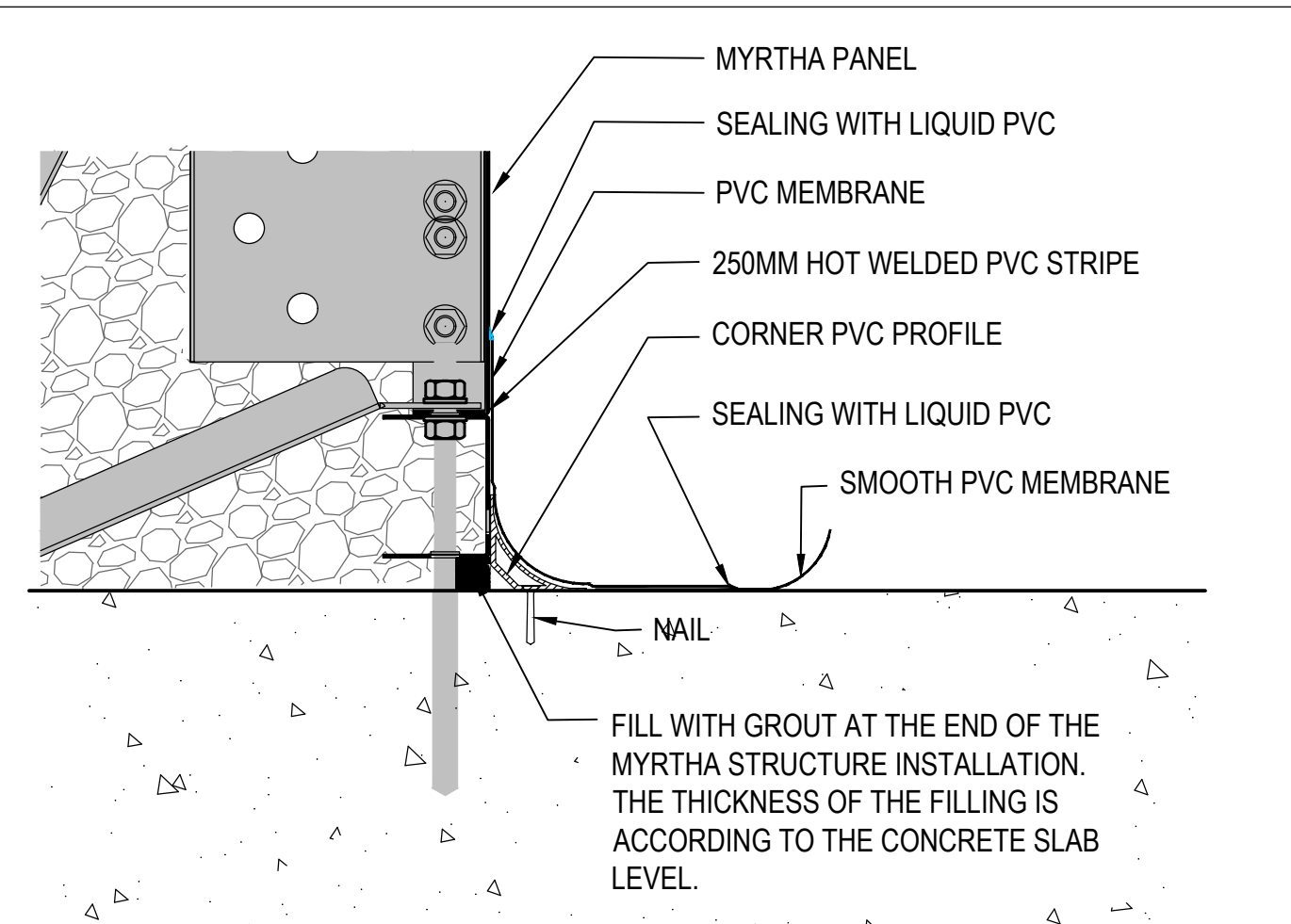




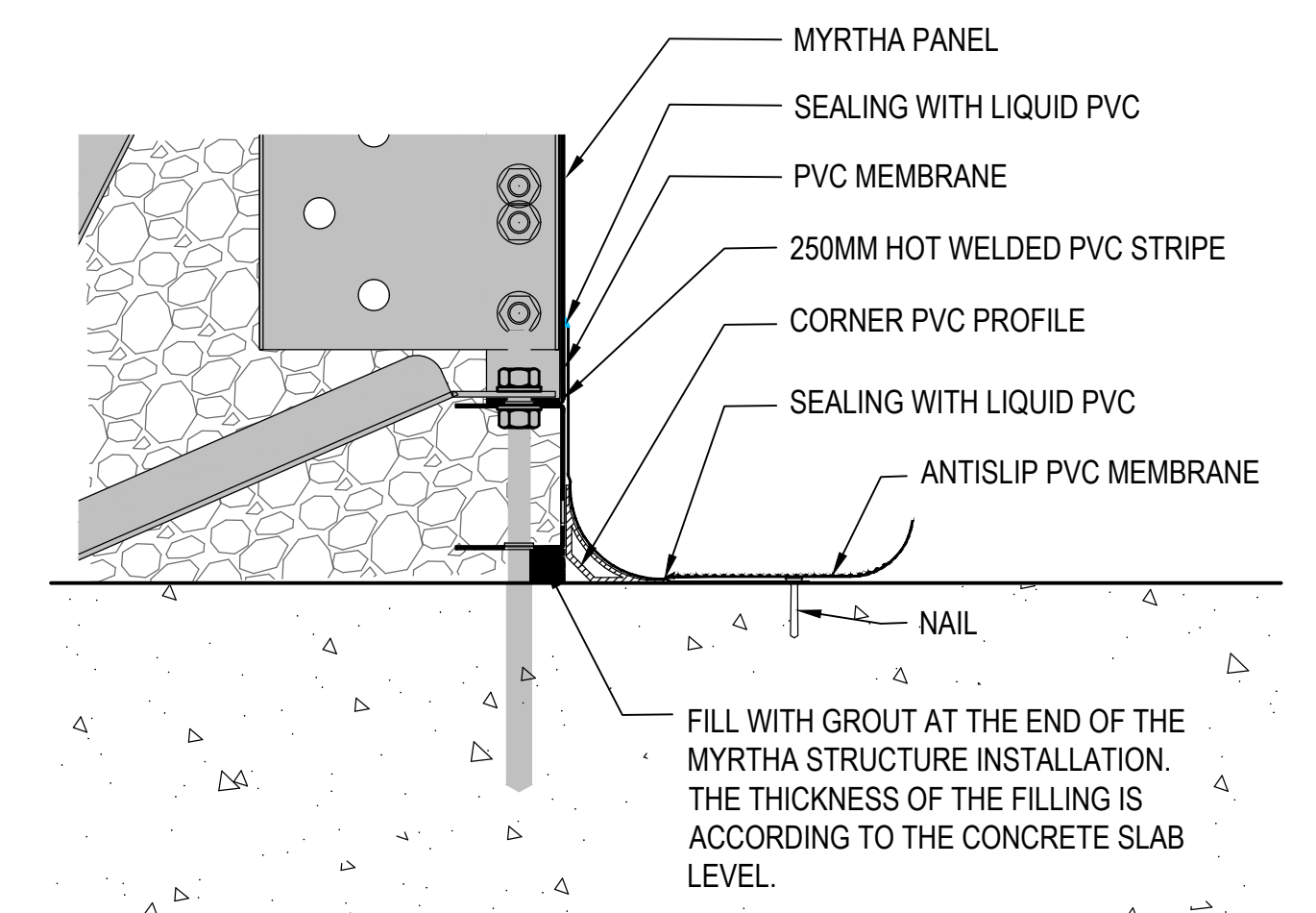
**1 STAINLESS STEEL GUTTER DETAIL** 3"=1'-0"



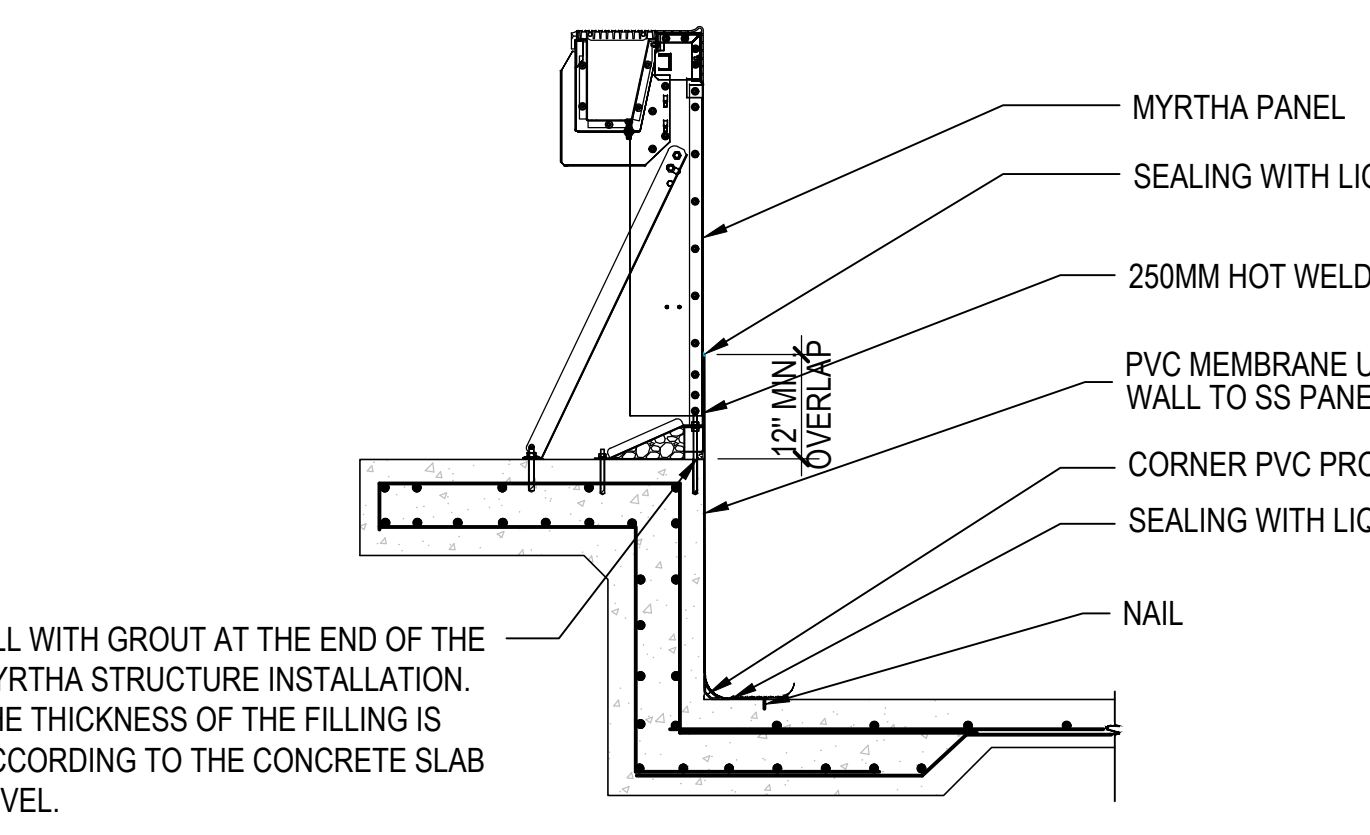
**2 TYPICAL 6" GUTTER DRAIN** 3"=1'-0"



**DETAIL "A"**

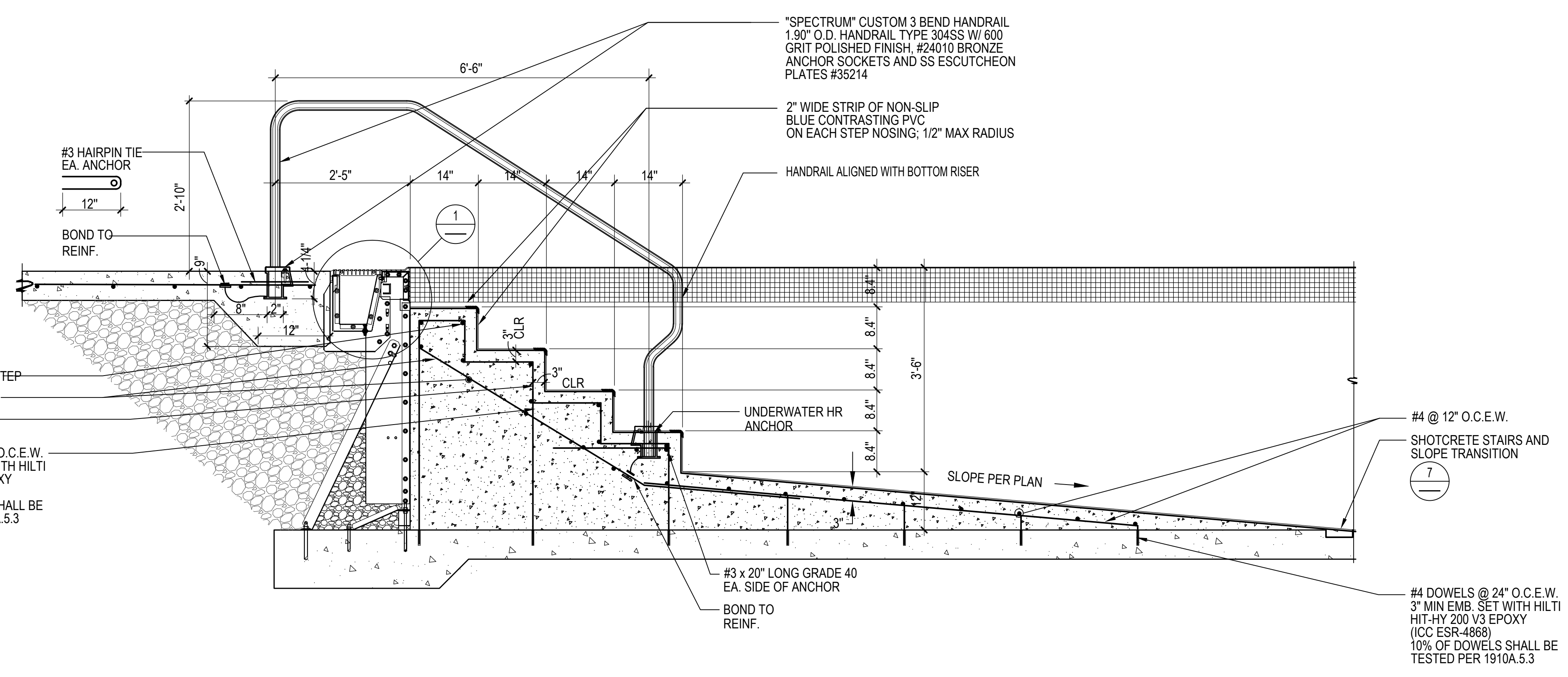


**DETAIL "B"**

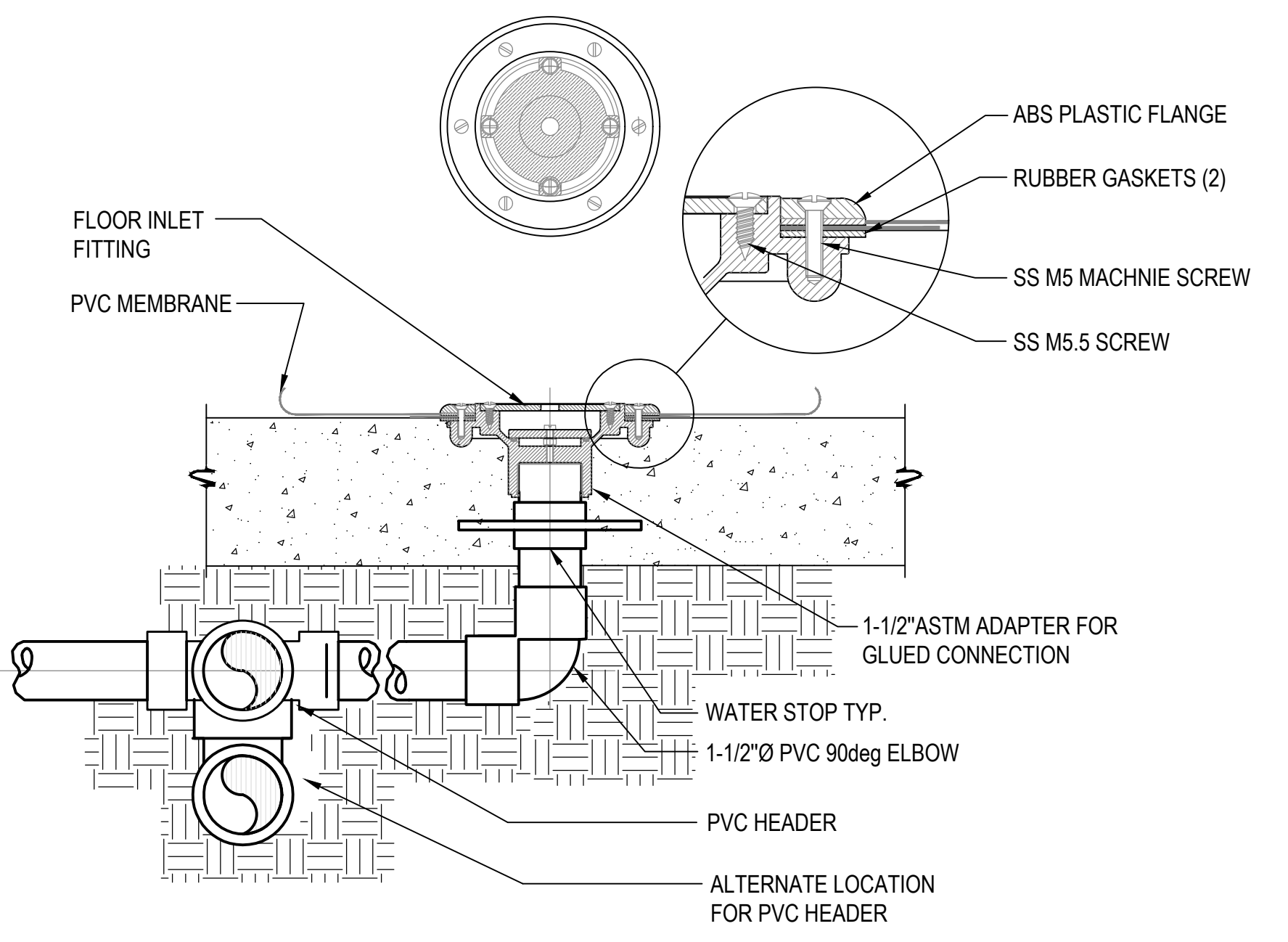


**DETAIL "C"**

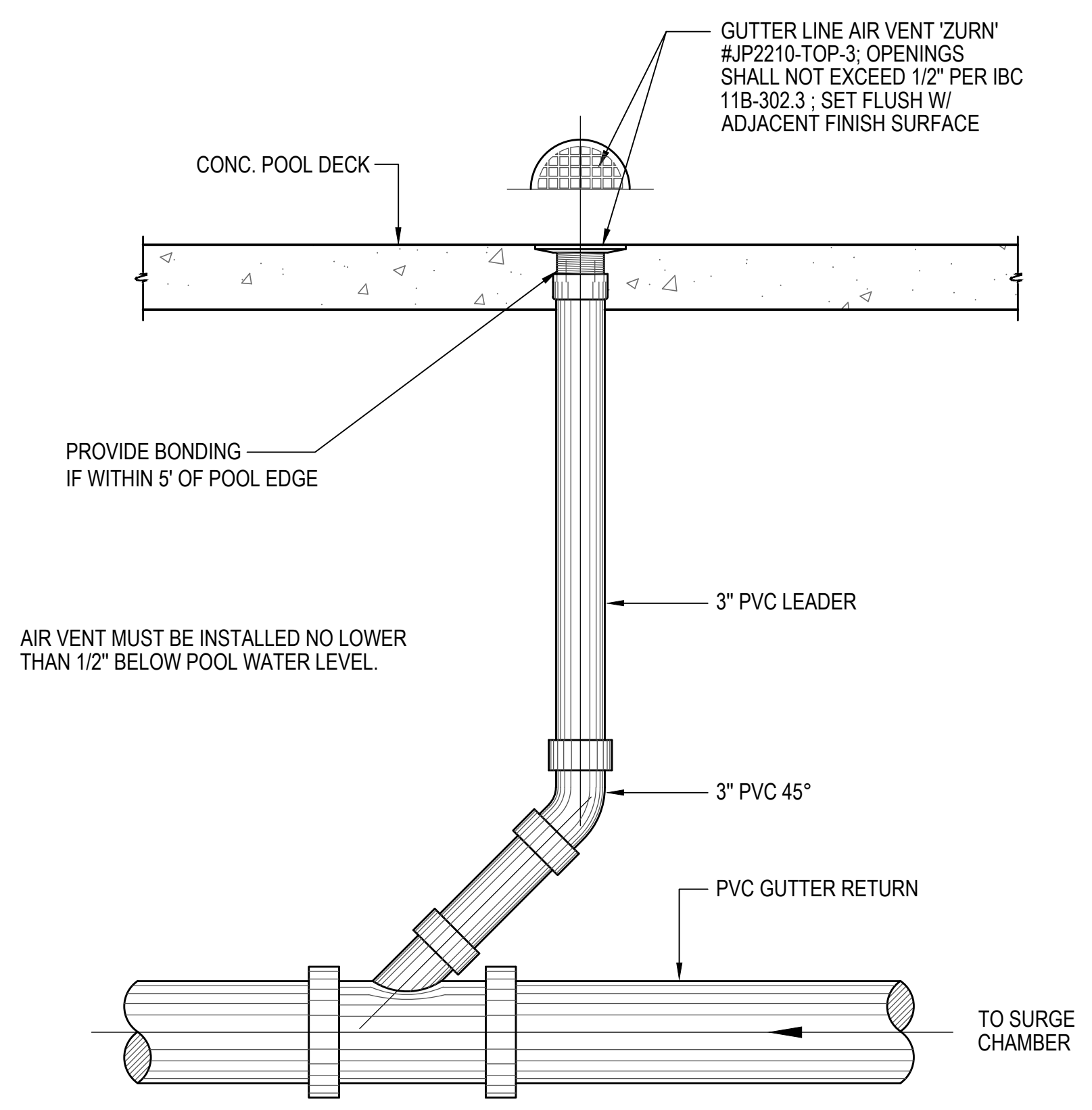
**4 TYPICAL CORNER PROFILES & MEMBRANE** 3"=1'-0"



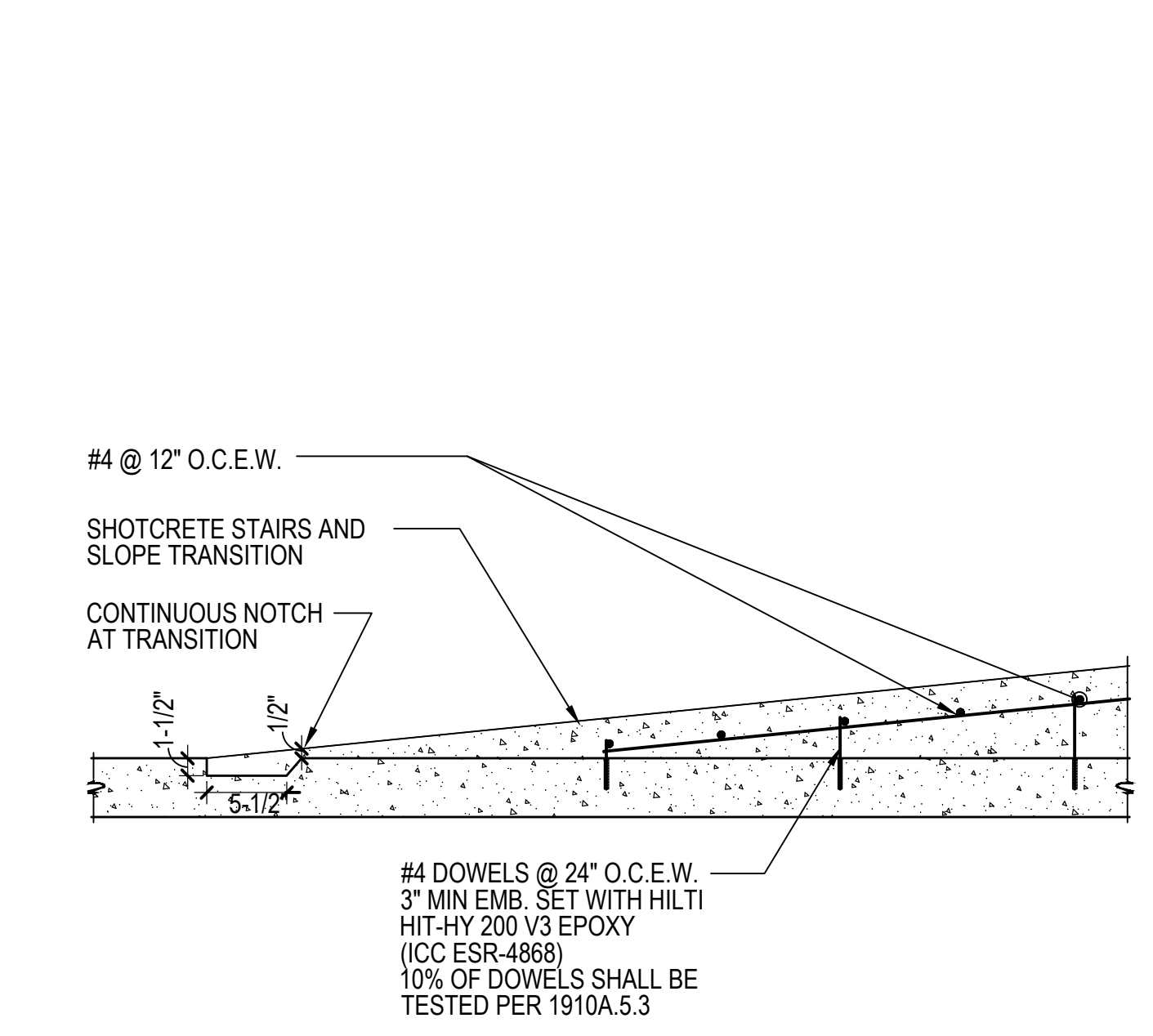
**3 STAIRS / HANDRAIL DETAIL** 3/4"=1'-0"



**5 FLOOR INLET** 1"=1'-0"



**6 AIR VENT** NO SCALE



**7 INTERIOR SLOPE TRANSITION** 1"=1'-0"



**100% DESIGN DEVELOPMENT**

ISSUE DATE: DECEMBER 01, 2023

REVISION SCHEDULE		
Rev #	Date	Description

CONTENTS:  
**DETAILS**

SCALE: As Indicated  
DRAWN: Author  
CHECKED: Checker  
PROJECT NO: 2022021.000

SHEET:  
**AP.4**





**100% DESIGN  
 DEVELOPMENT**

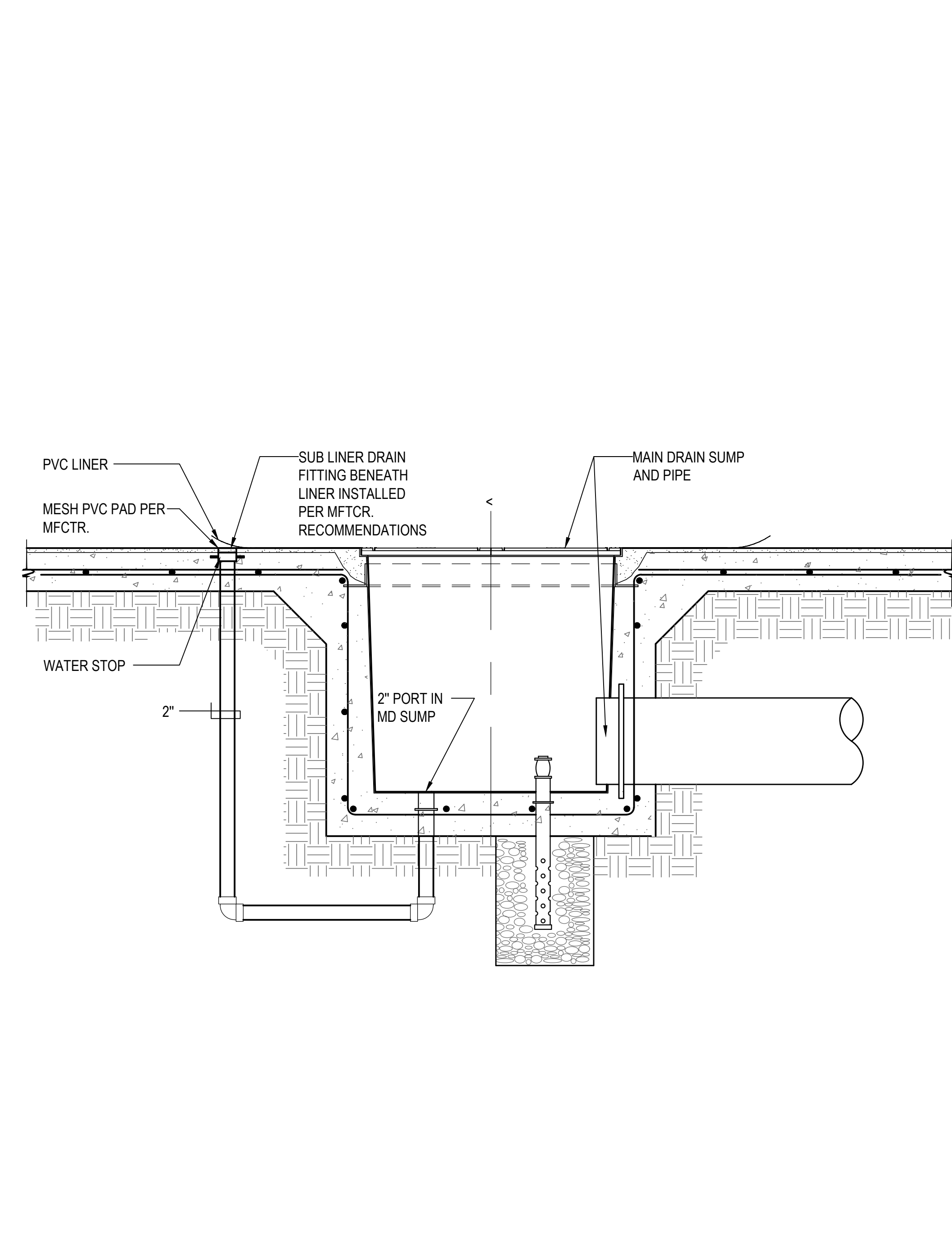
ISSUE DATE: DECEMBER 01, 2023

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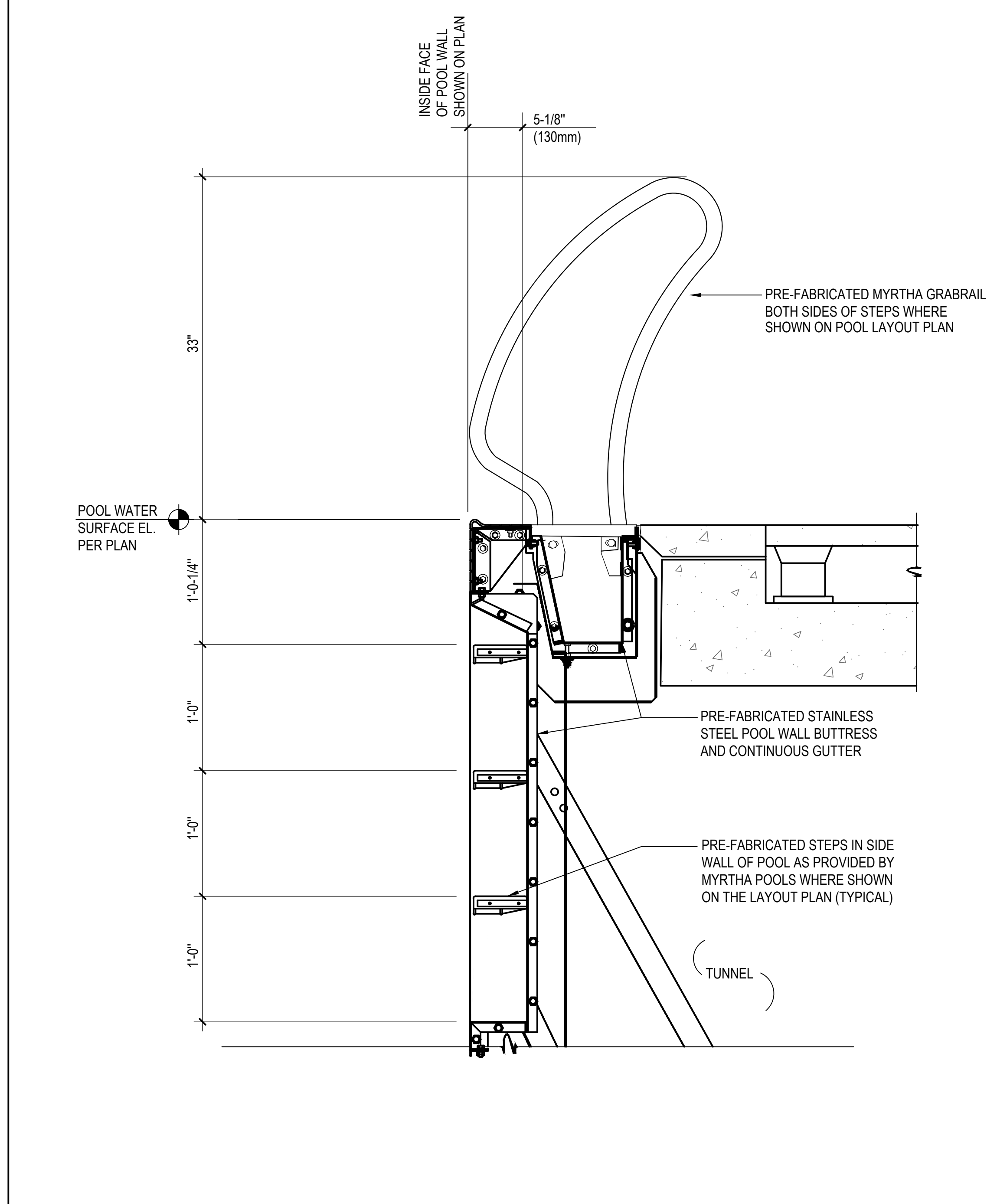
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 PROJECT NO: 2022021.000

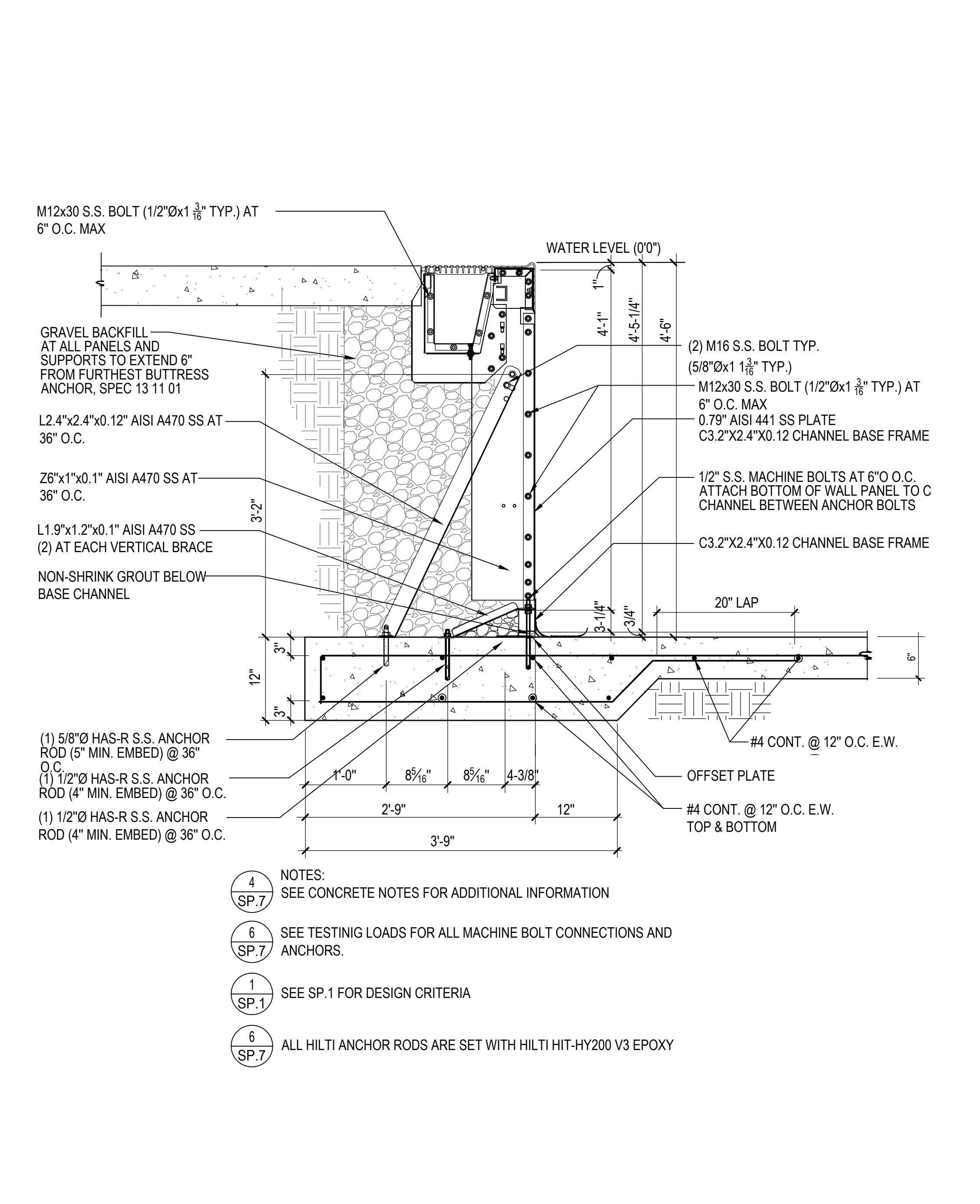
SHEET:  
**AP.5**



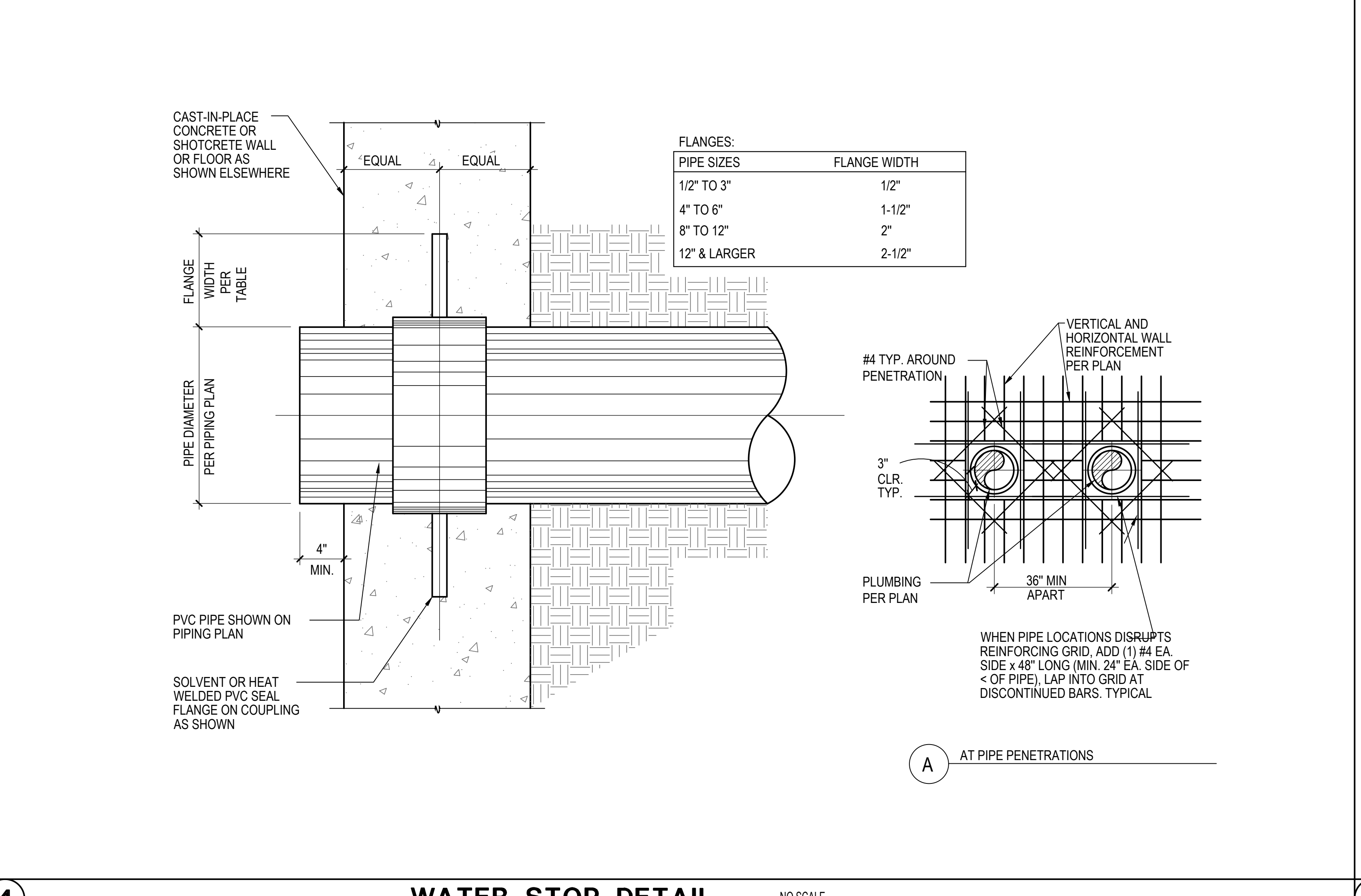
**1 SUB LINER DRAIN** 1"=1'-0"



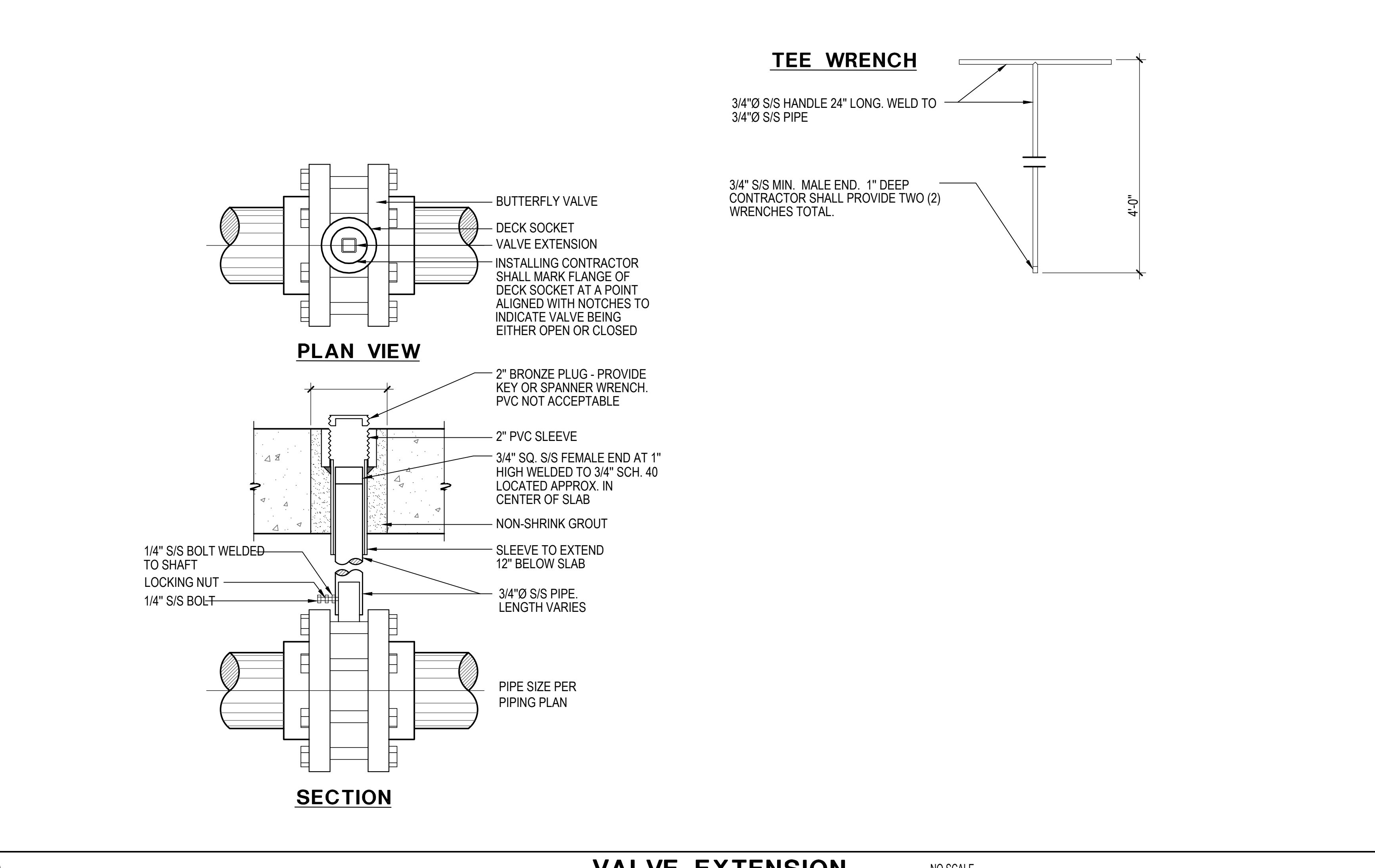
**2 GRAB RAIL** 1"=1'-0"



**3 4'-6" DEPTH S.S. POOL WALL W/ OFFSET PLATE** 1"=1'-0"



**4 WATER STOP DETAIL** NO SCALE



**5 VALVE EXTENSION** NO SCALE





**100% DESIGN  
DEVELOPMENT**

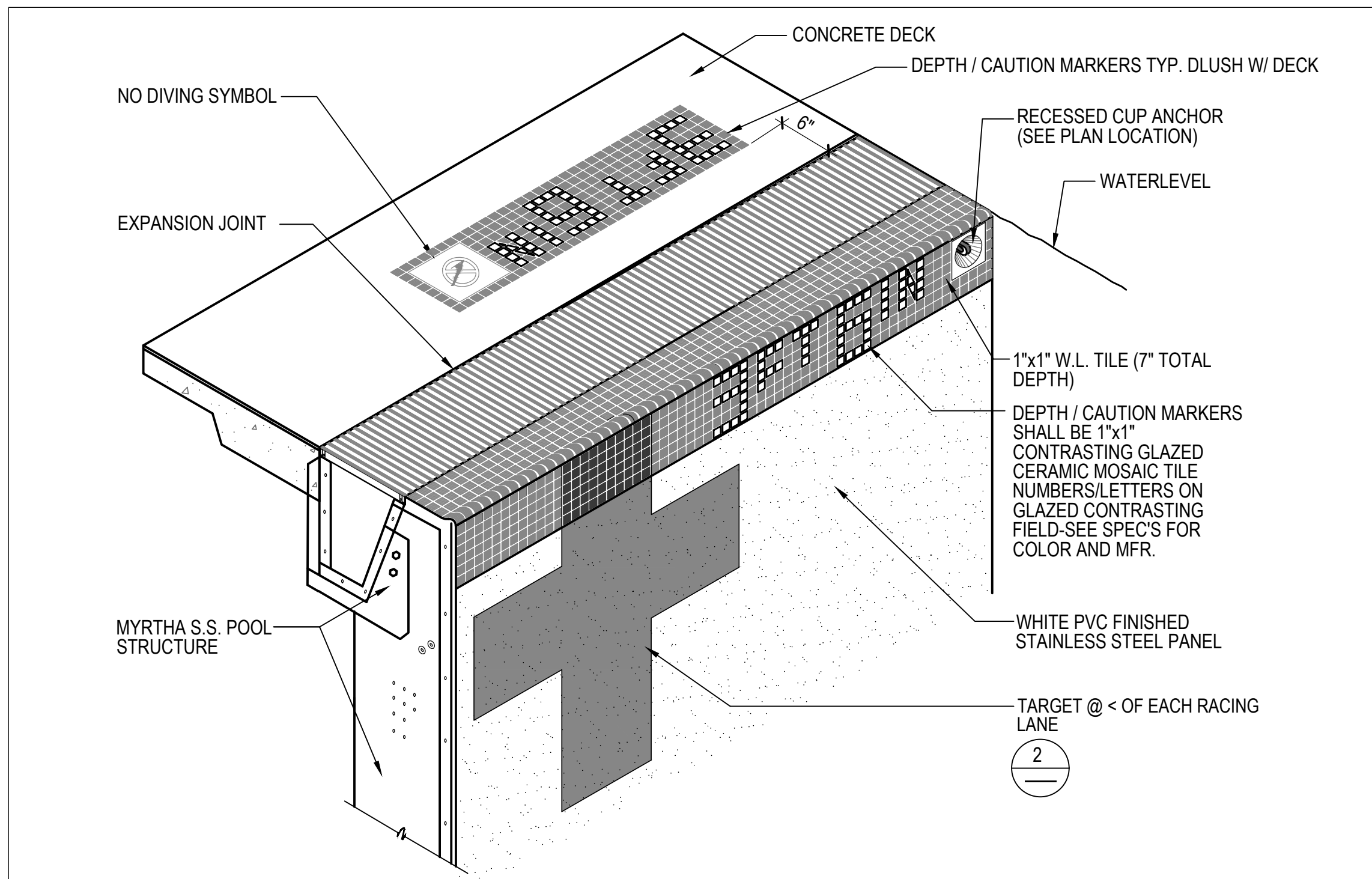
ISSUE DATE: DECEMBER 01, 2023

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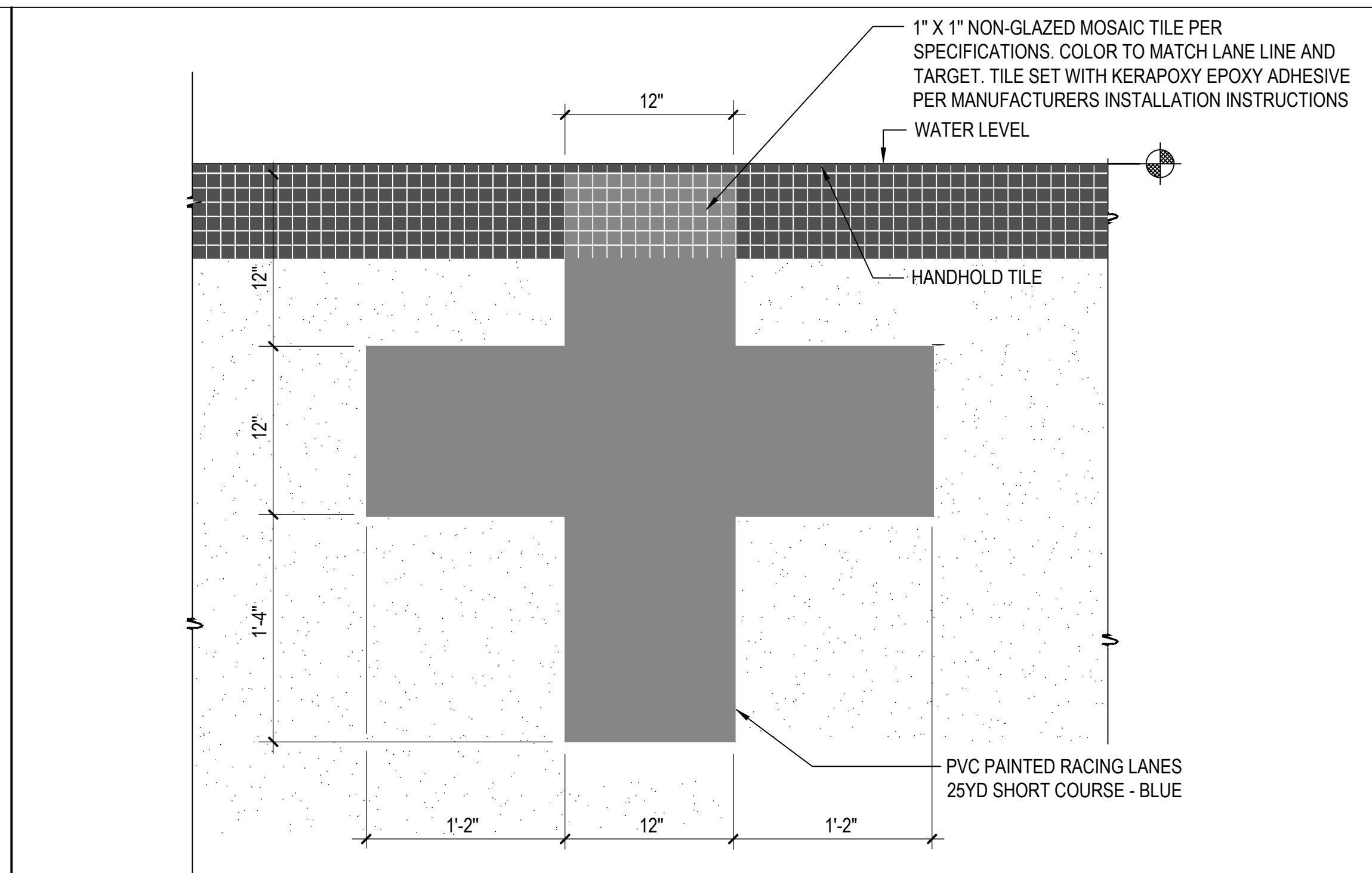
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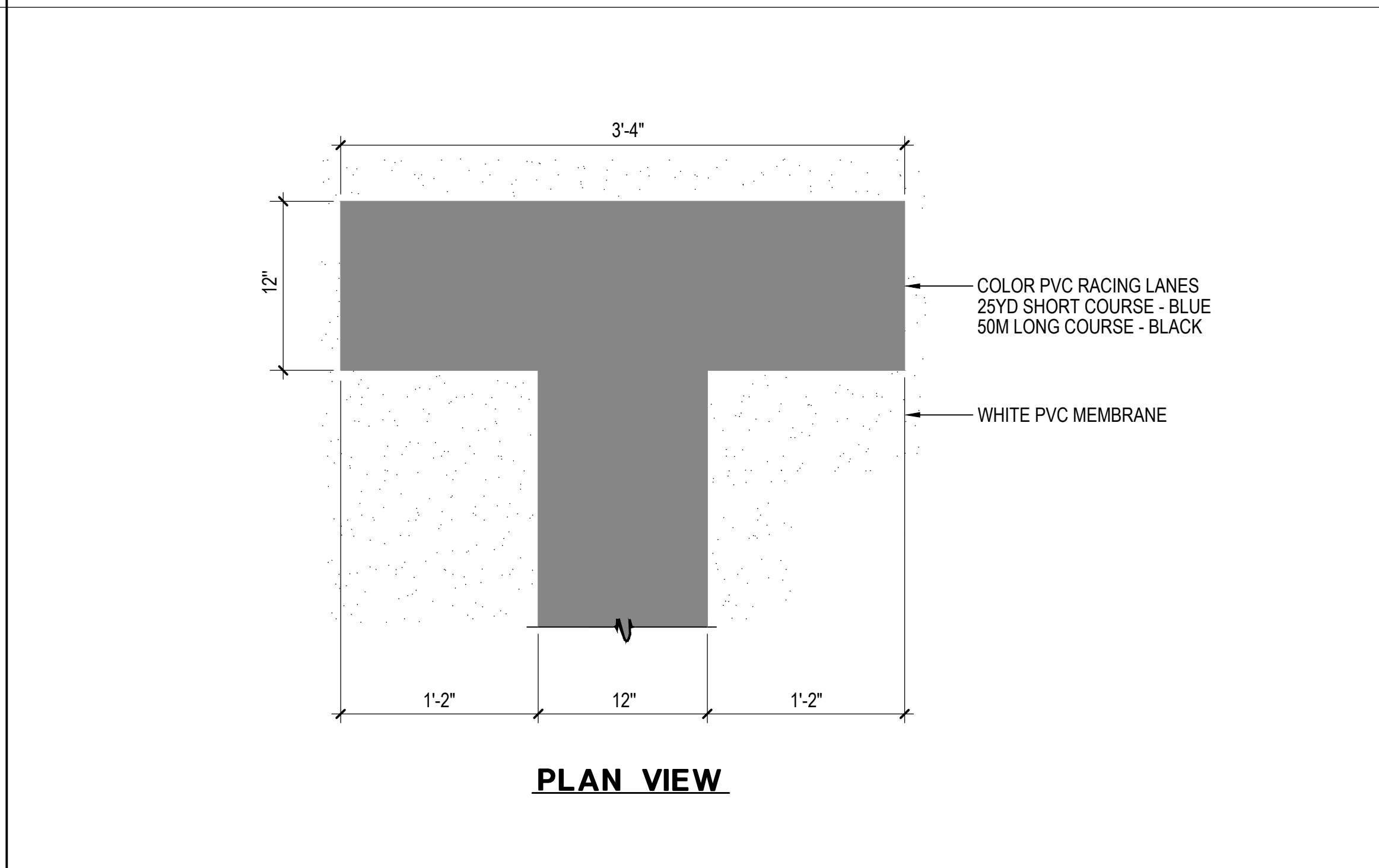
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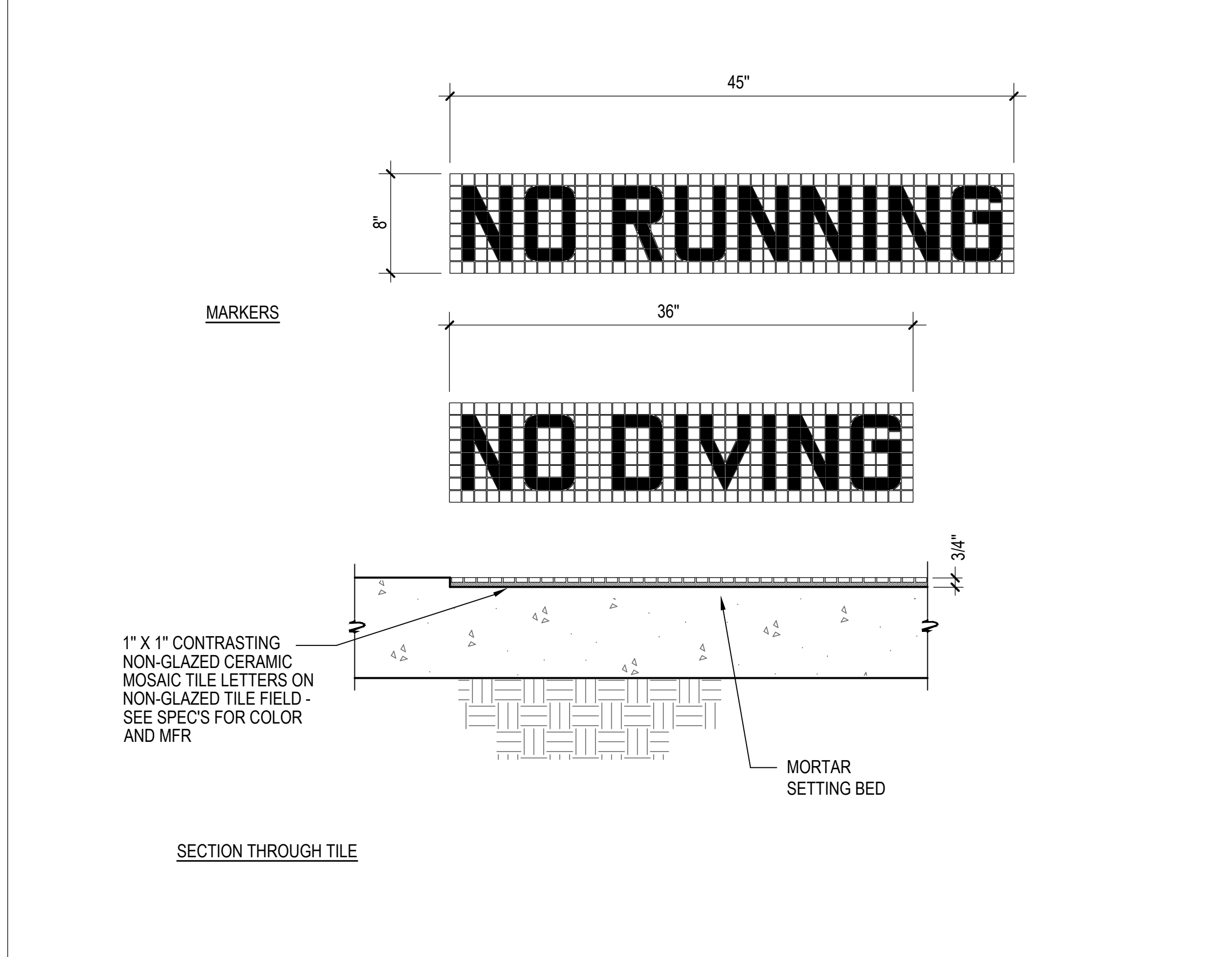
**1 RIM FLOW GUTTER PERSPECTIVE** NO SCALE



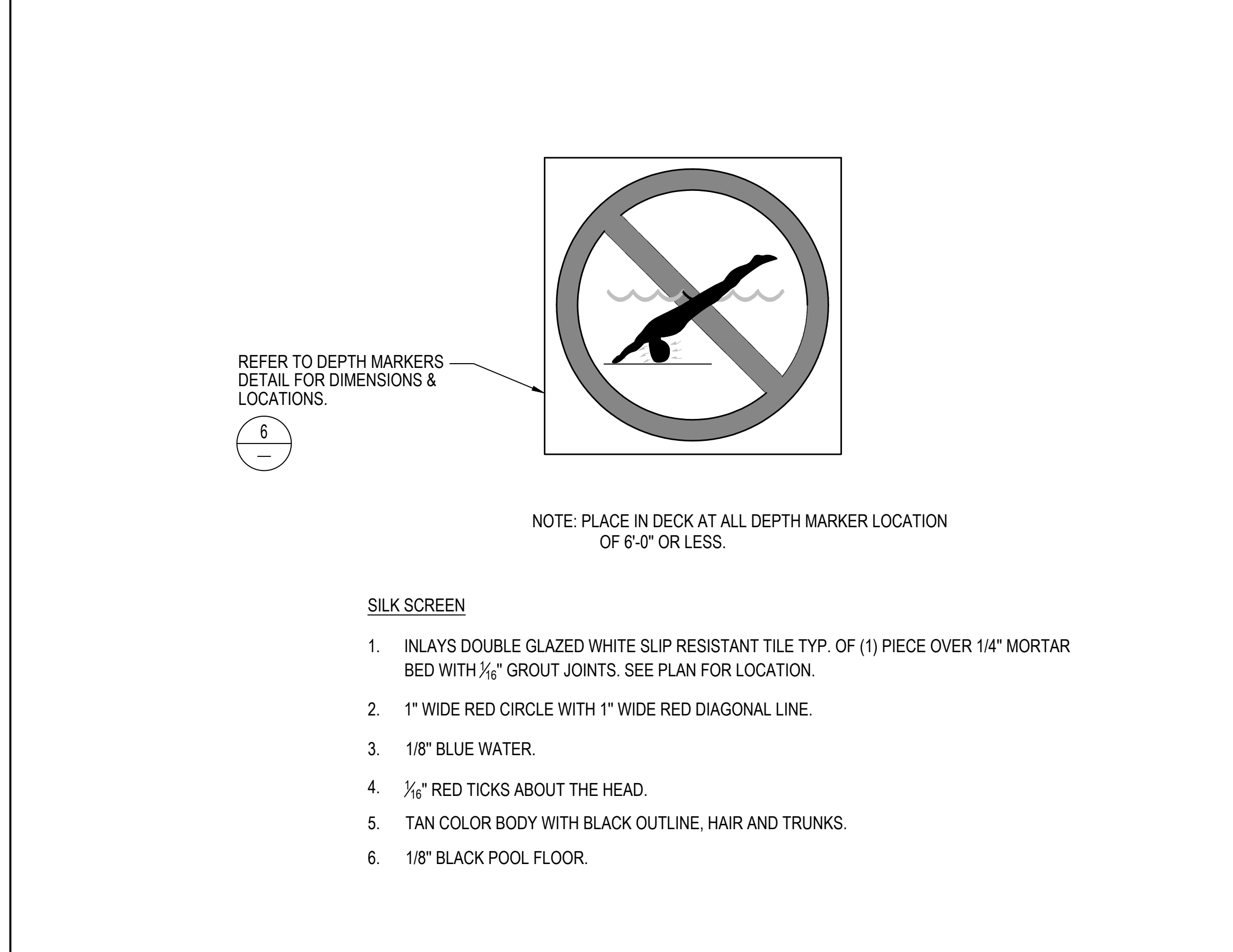
**2 END WALL TARGET** 1 1/2"=1'-0"



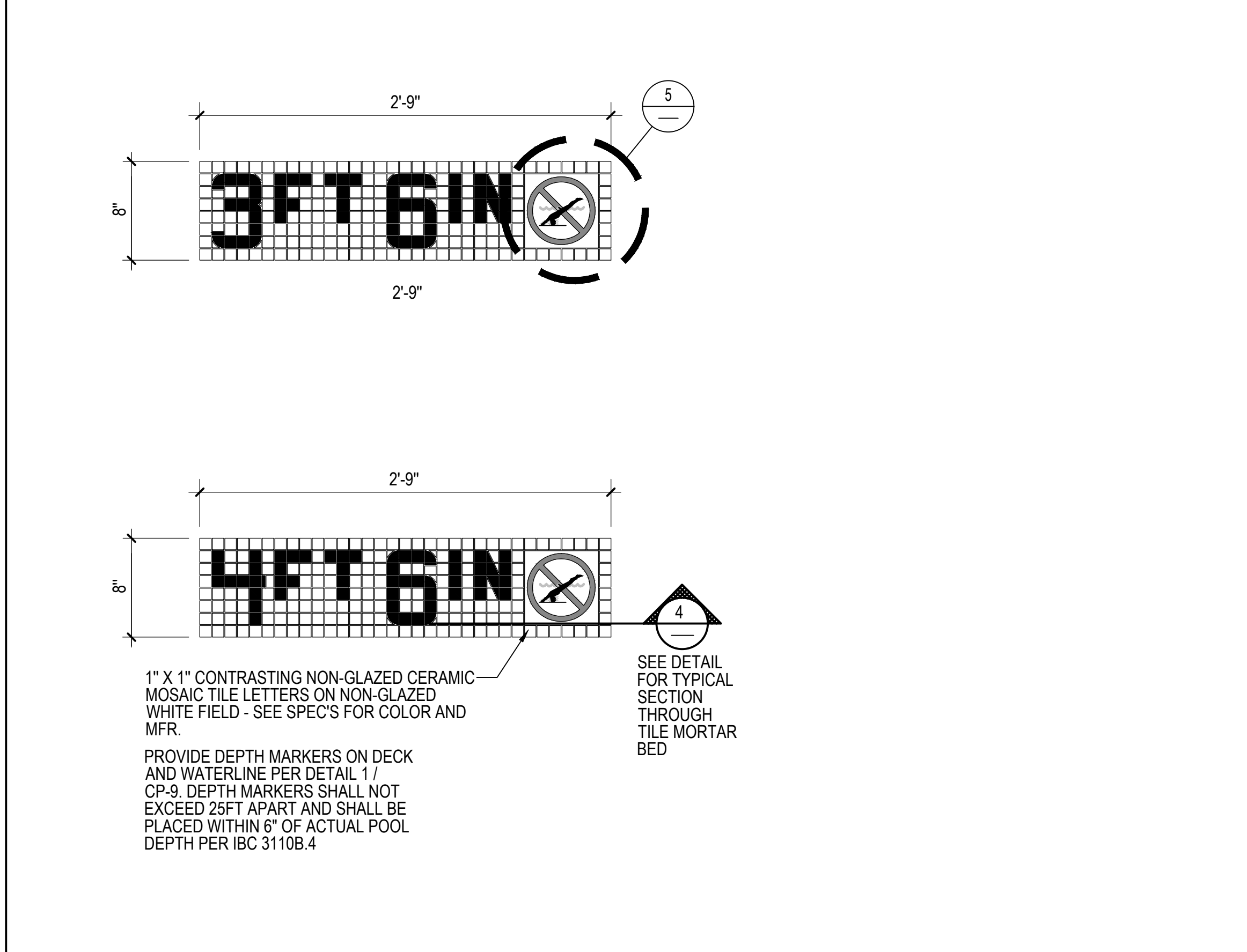
**3 RACING LANE LINE** 1-1/2"=1'-0"



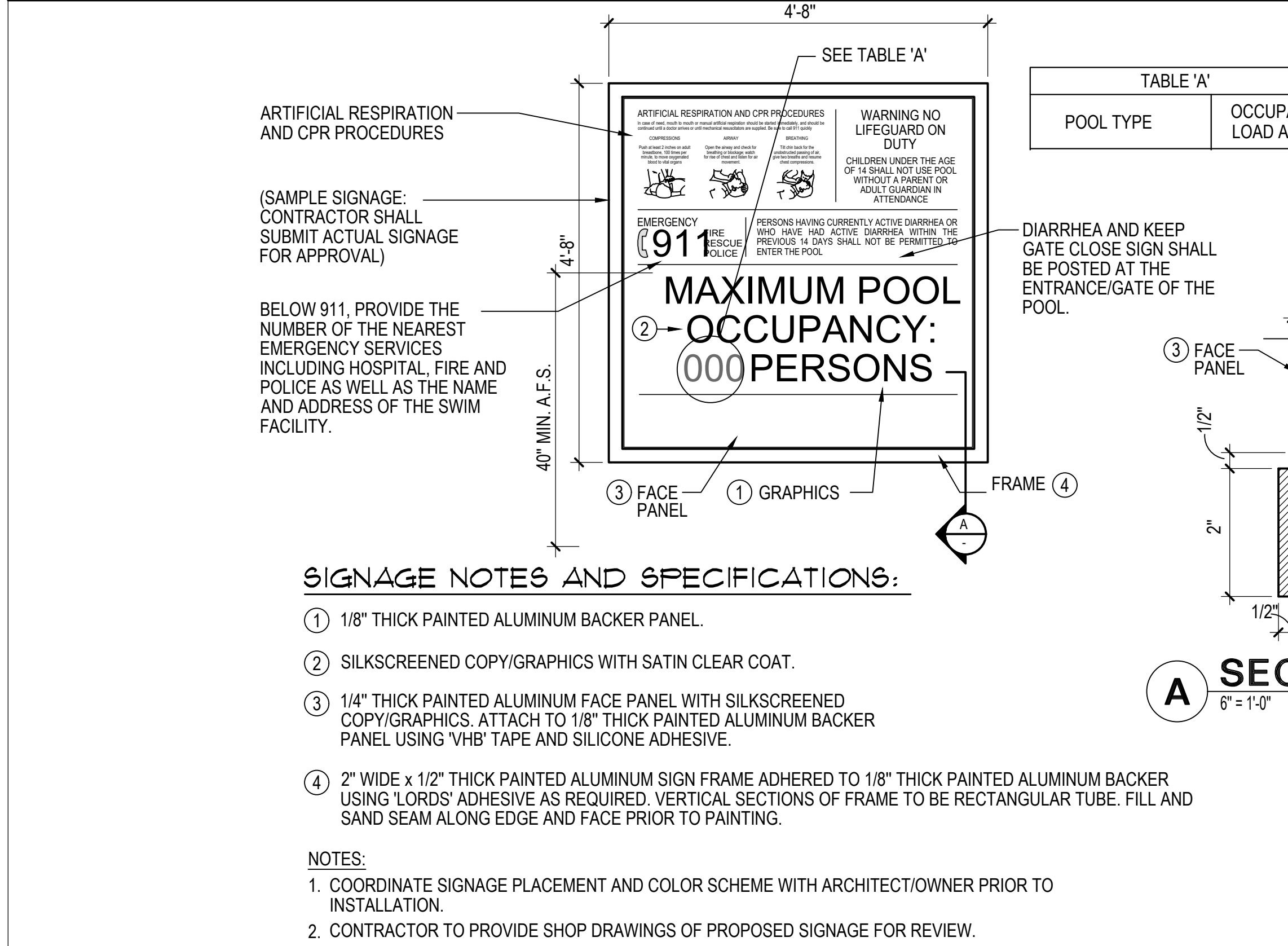
**4 \"/>**



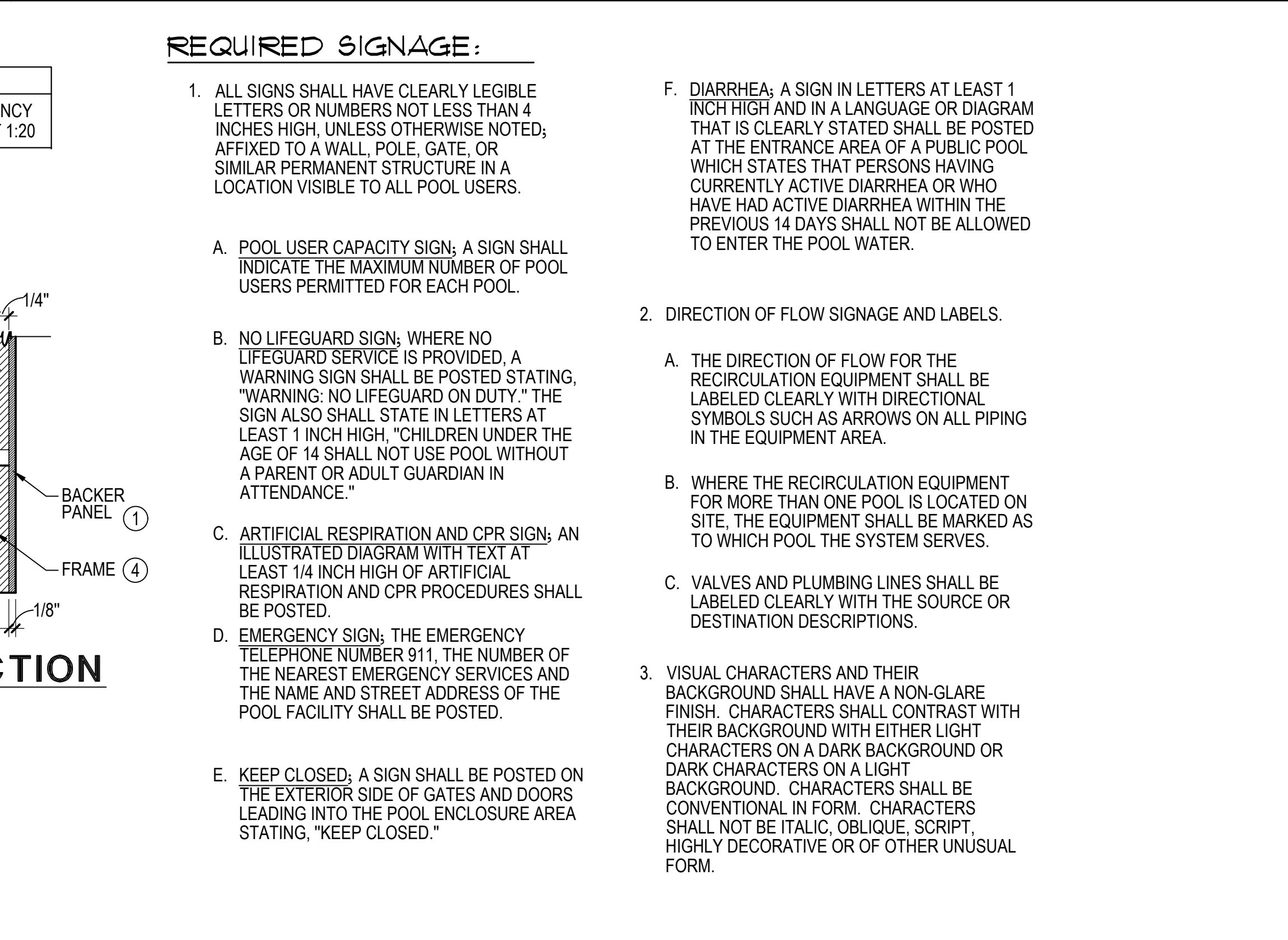
**5 INTERNATIONAL \"/>**



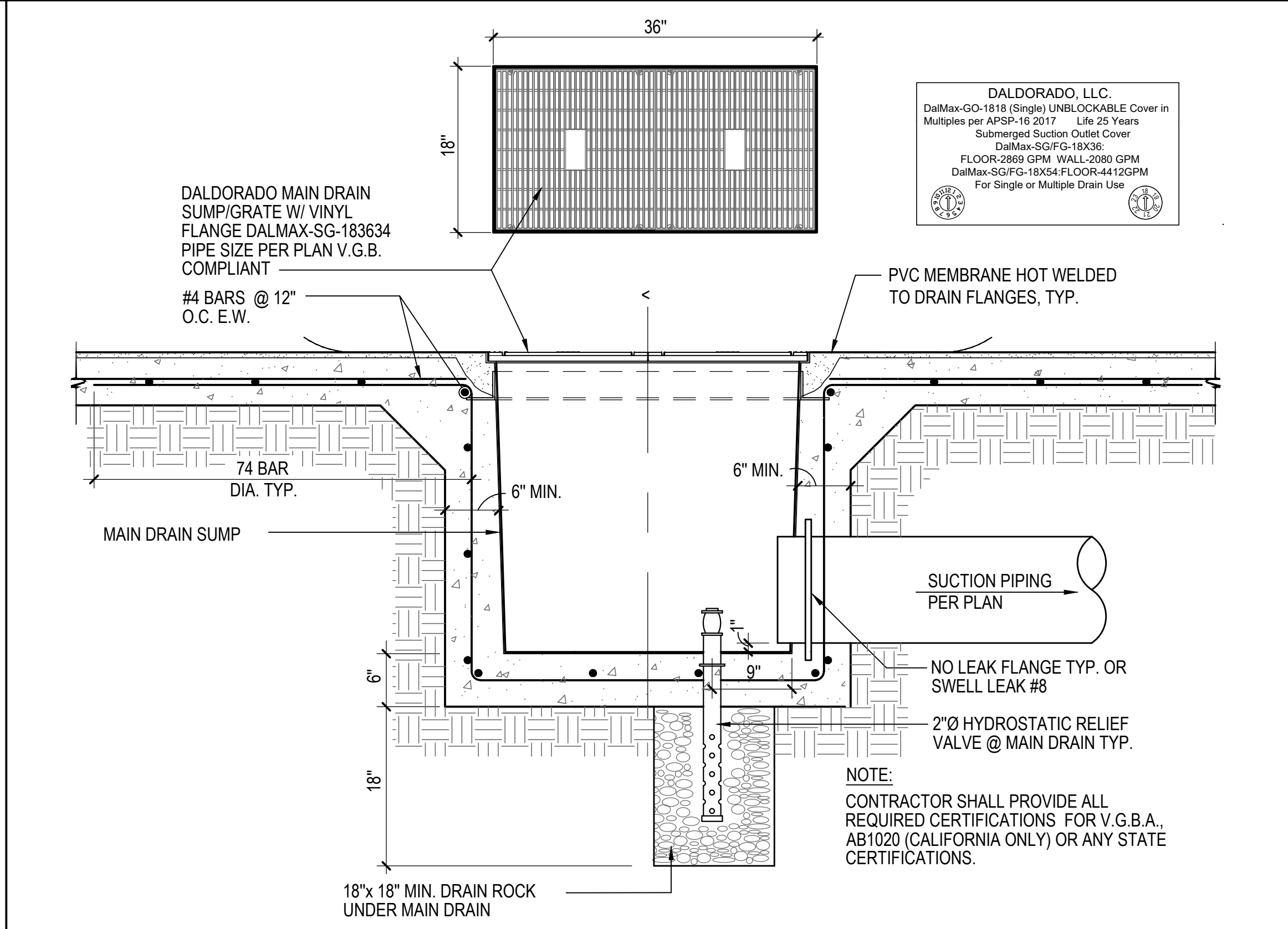
**6 DEPTH MARKERS** 1-1/2"=1'-0"



**7 POOL SIGNAGE DETAIL** 3/4"=1'-0"

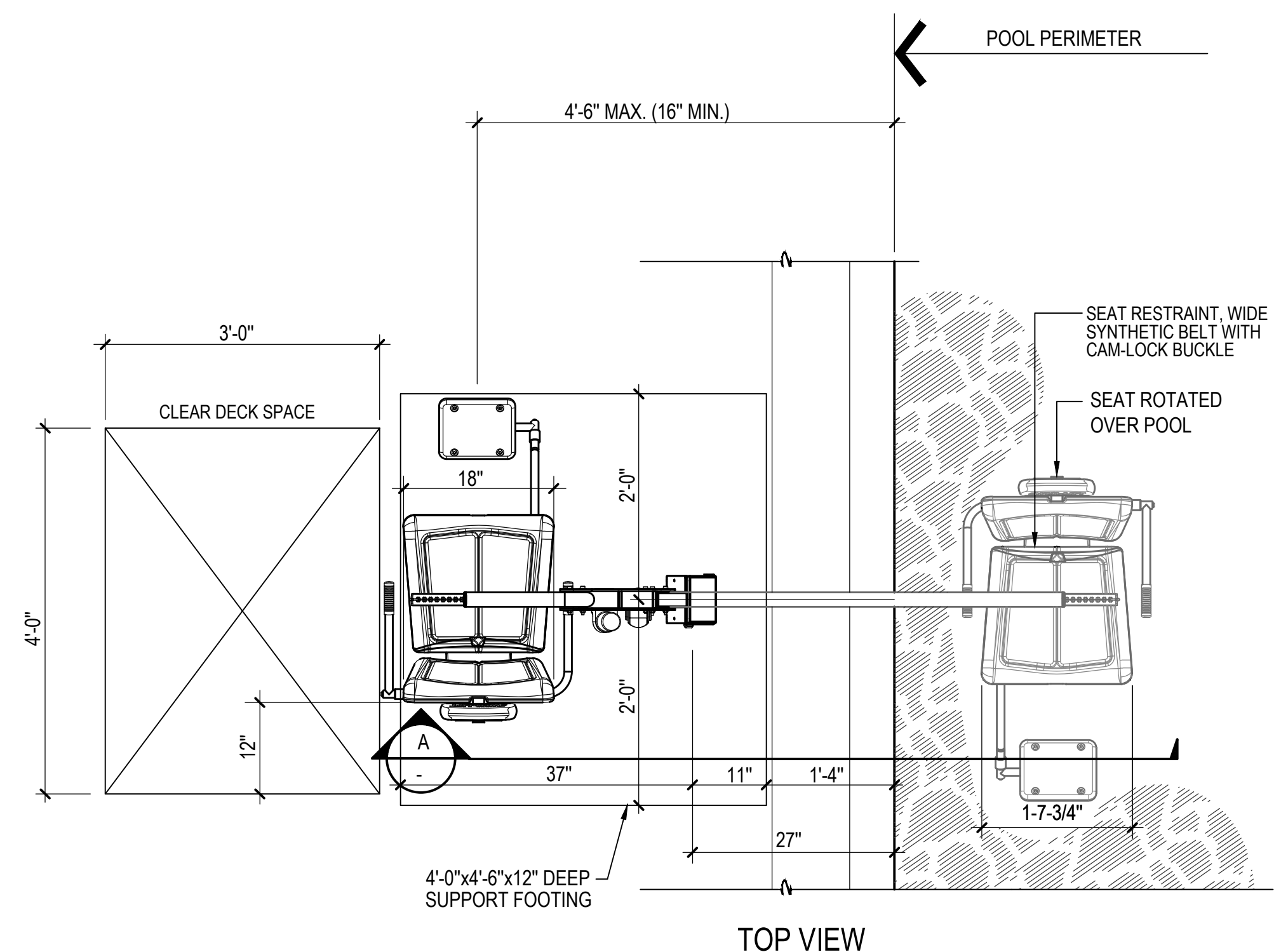


**8 18X36 MAIN DRAIN** 1"=1'-0"

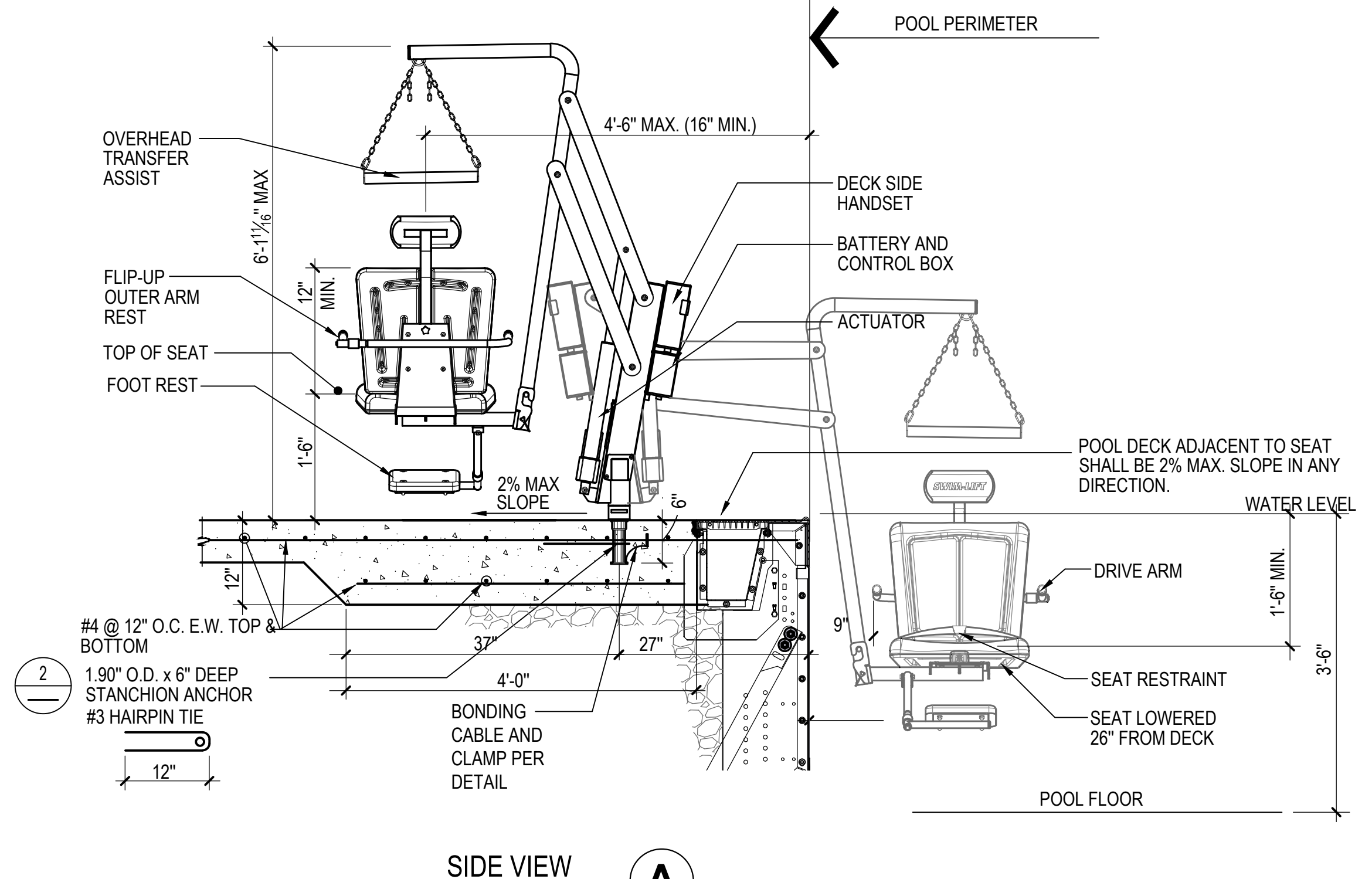


**8 18X36 MAIN DRAIN** 1"=1'-0"





TOP VIEW



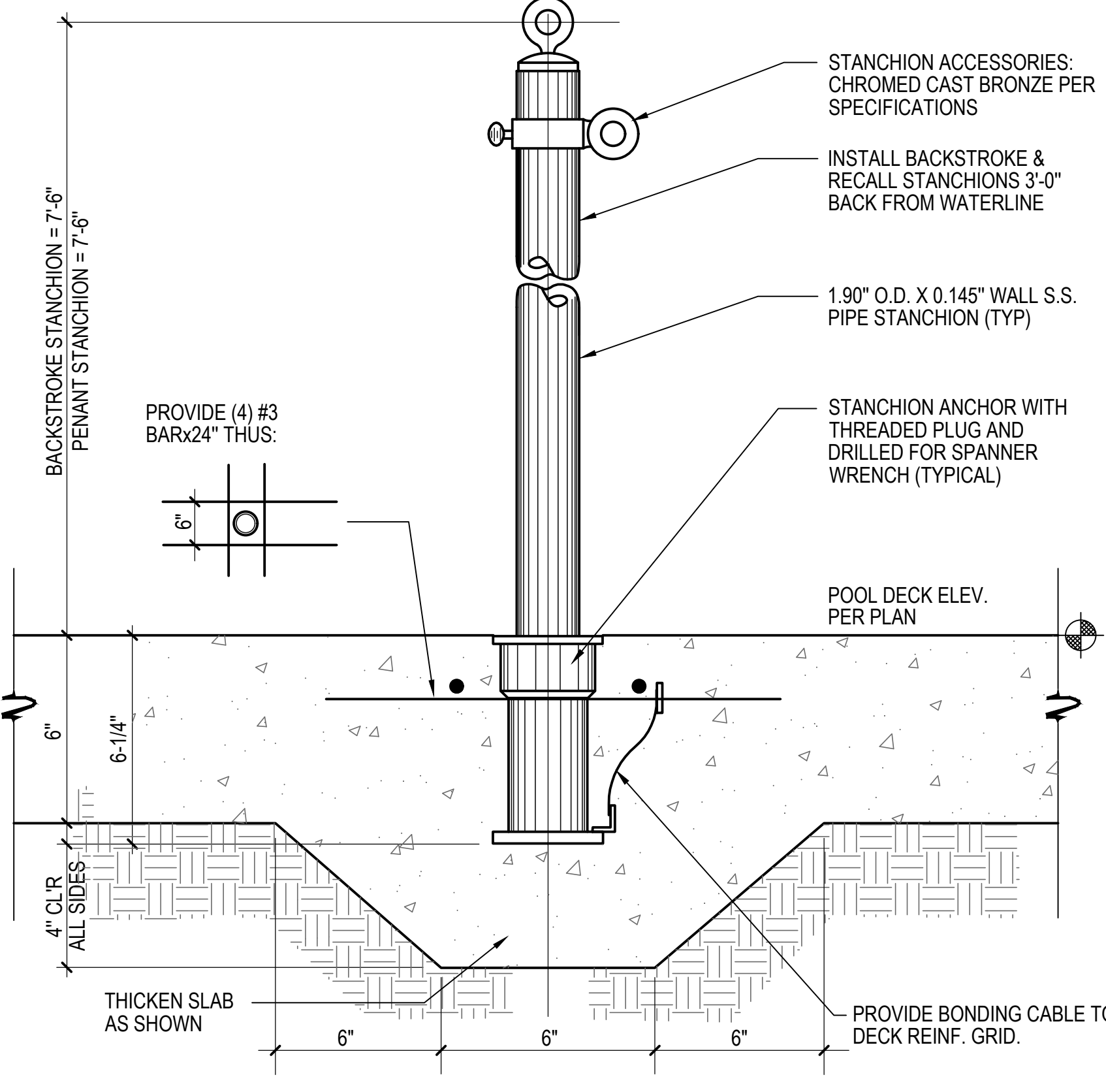
SIDE VIEW A

**NOTES:**

1. 'SPECTRUM' TRAVELER XRC 500 #26705 (500 lb. CAPACITY MIN.)
2. GUSSET COVER PLATE TO BE ATTACHED REQUIRING A TOOL FOR REMOVAL.
3. CONTRACTOR SHALL PROVIDE COVER FOR LIFT 'SPECTRUM' #27365; EXTRA BATTERY PACK 'SPECTRUM' #13257; AND TRANSPORTER CART 'SPECTRUM' #26060.
4. REFER TO ARCH. PLANS FOR LOCATION OF ACCESSIBLE LIFT BATTERY CHARGE STATION.
5. POOL LIFT SHALL BE LOCATED WHERE THE WATER LEVEL IS AT LEAST 36" AND DOES NOT EXCEED 48" DEEP, UNLESS ENTIRE POOL IS GREATER THAN 48" DEEP. (IBC SECTION 11B-1009.2.1)
6. ON THE RAISED POSITION, THE CENTERLINE OF THE SEAT SHALL BE LOCATED OVER THE DECK AND 16" MINIMUM FROM THE EDGE OF THE POOL. THE DECK SURFACE BETWEEN THE CENTERLINE OF THE SEAT AND THE POOL EDGE SHALL HAVE A 2% MAX. SLOPE. (IBC SECTION 11B-1009.2.2)
7. CLEAR DECK SPACE SHALL BE PROVIDED ON SIDE OF SEAT OPPOSITE THE WATER PARALLEL TO THE WATER 36" WIDE x 48" MINIMUM FROM A LINE LOCATED 12" BEHIND THE REAR EDGE OF THE SEAT. THE CLEAR SPACE SHALL HAVE A 2% MAX. SLOPE. (IBC SECTION 11B-1009.2.3)
8. THE HEIGHT OF THE LIFT SEAT SHALL BE DESIGNED TO ALLOW A STOP AT 17" MIN. TO 19" MAX. MEASURED FROM THE DECK TO THE TOP OF THE SEAT SURFACE WHEN IN THE RAISED POSITION. (IBC SECTION 11B-1009.2.4)
9. THE SEAT SHALL BE RIGID AND 17" MIN. TO 19" MAX. WIDE. THE LIFT SEAT SHALL HAVE A BACK SUPPORT 12" MIN. TALL. (IBC SECTION 11B-1009.2.4)
10. FOOTRESTS SHALL BE PROVIDED, EXCEPT FOR SPA LIFTS, AND SHALL MOVE WITH THE SEAT. 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. (IBC SECTION 11B-1009.2.6)
11. THE LIFT SHALL BE CAPABLE OF UNASSISTED OPERATION VIA HANDSETS FROM BOTH THE DECK SEAT AND WATER. CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND (WITHOUT REQUIRING TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST). FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS (MAXIMUM) AND SHALL BE UNOBSTRUCTED WHEN THE LIFT IS IN USE (IBC SECTION 11B-309.4). LIFT MUST BE STABLE AND NOT PERMIT UNINTENDED MOVEMENT WHEN A PERSON IS GETTING INTO OR OUT OF THE SEAT. (IBC SECTION 11B-1009.2.7)
12. THE LIFT SHALL BE DESIGNED SO THAT THE SEAT WILL SUBMERGE TO A WATER DEPTH OF 18" MIN. BELOW THE STATIONARY WATER LEVEL. (IBC SECTION 11B-1009.2.8)
13. LIFT SEAT MUST HAVE AN OCCUPANT RESTRAINT FOR USE BY THE OCCUPANT OF THE SEAT AND THE RESTRAINT MUST MEET THE STANDARDS FOR OPERABLE CONTROLS IN COMPLIANCE WITH IBC SECTION 11B-1009.2.4 AND SECTION 11B-309.

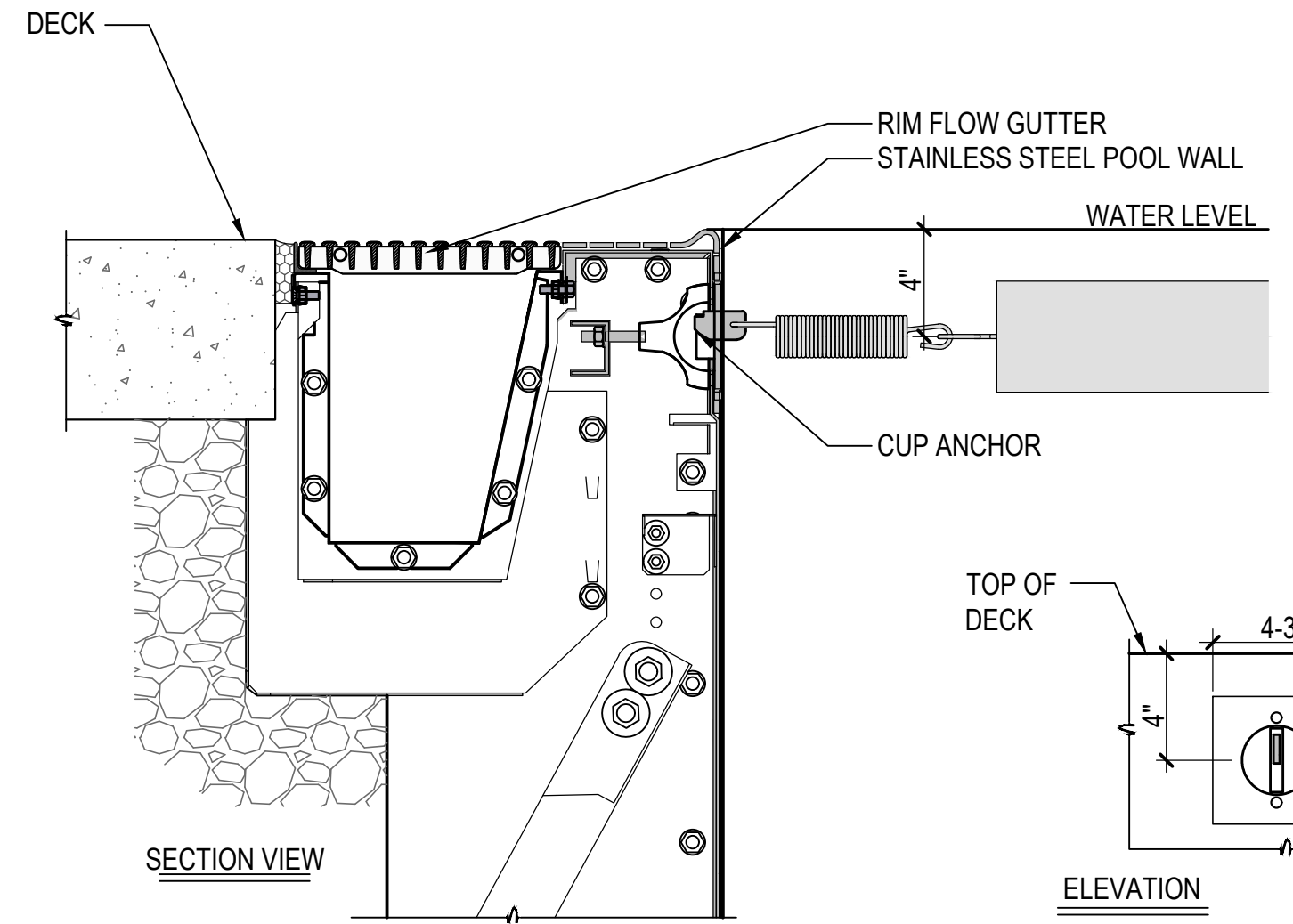
**ACCESSIBLE LIFT**

3/4"=1'-0"



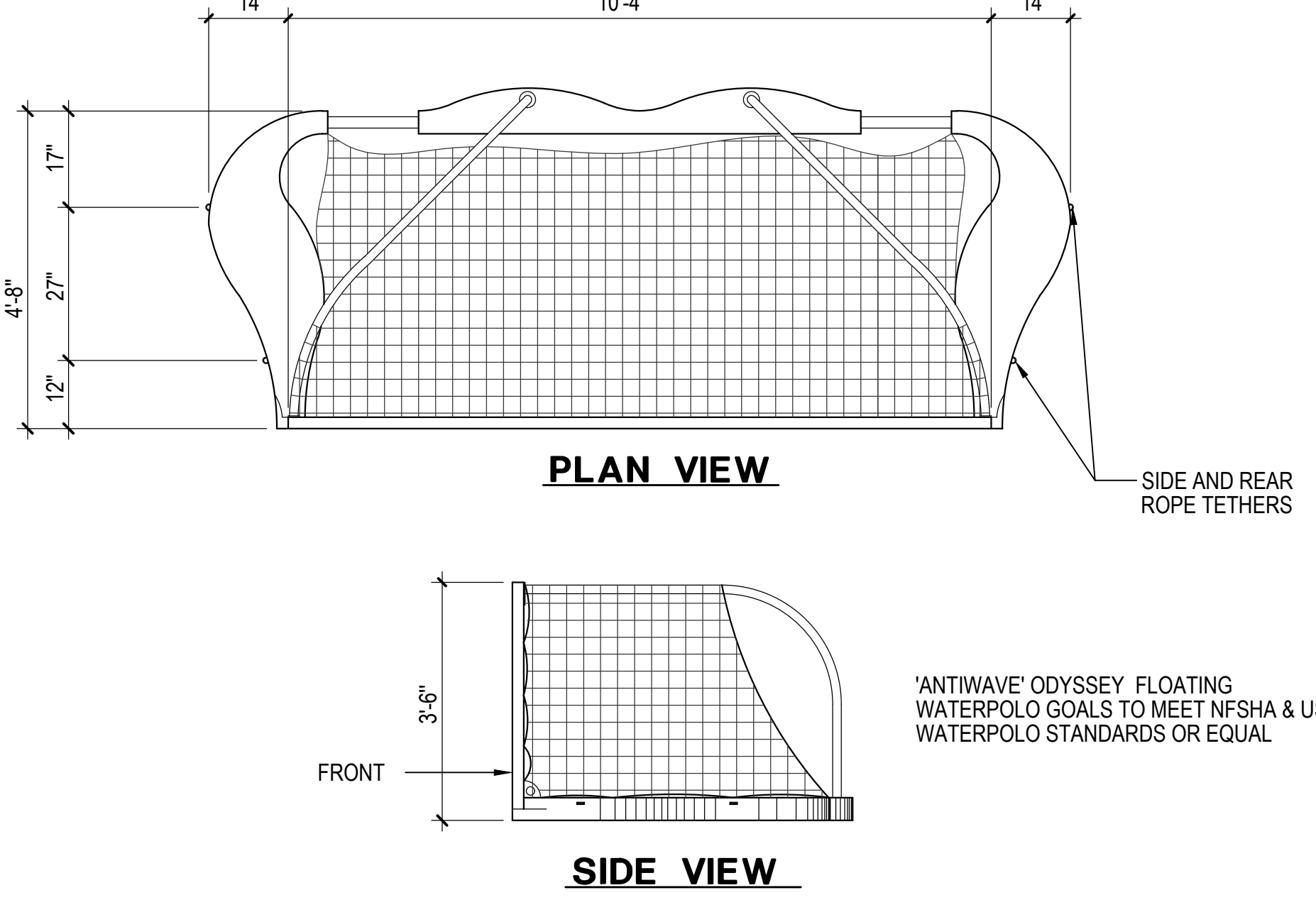
STANCHION POST/ANCHOR

3"=1'-0"



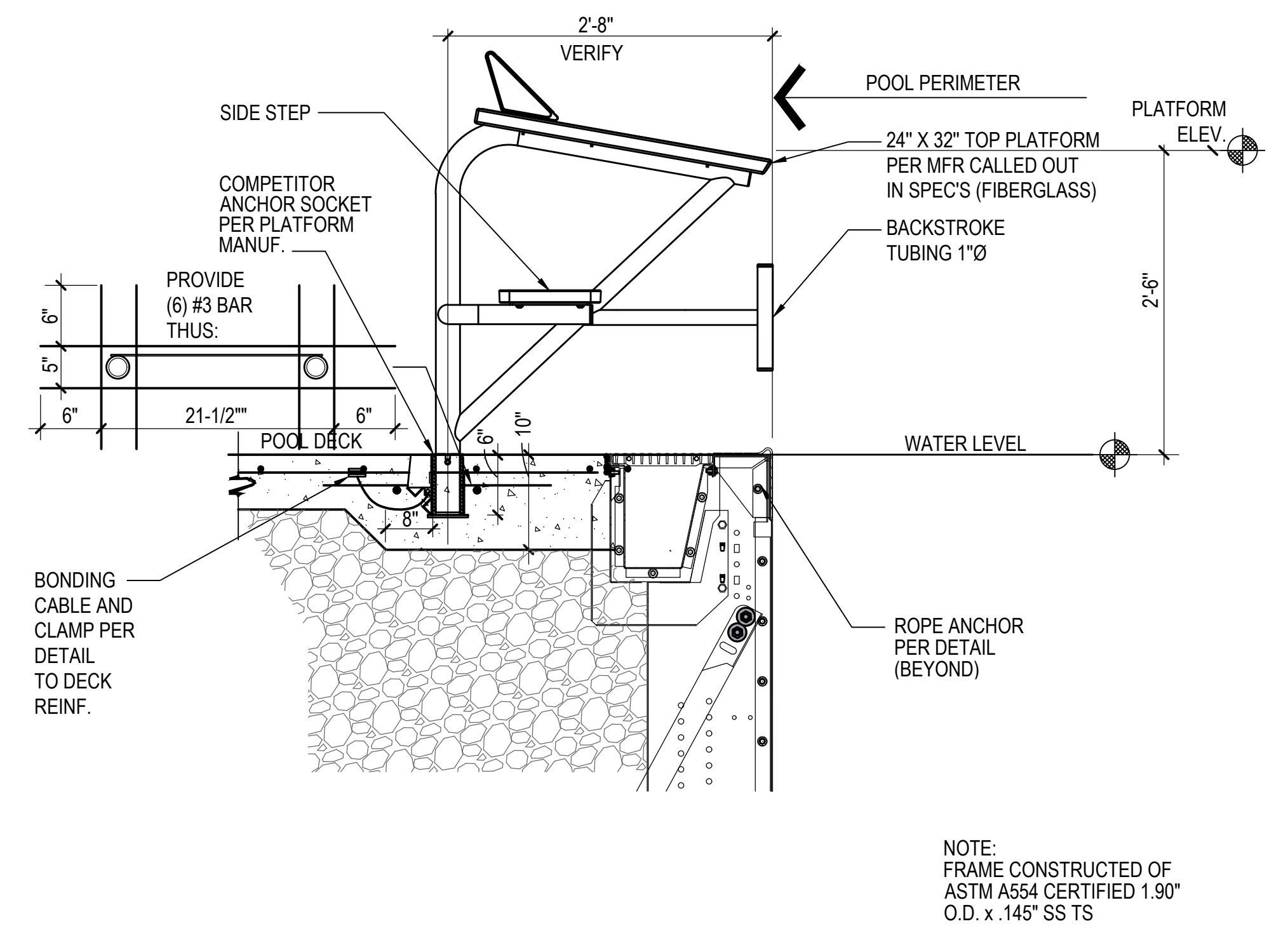
ROPE ANCHOR

NO SCALE



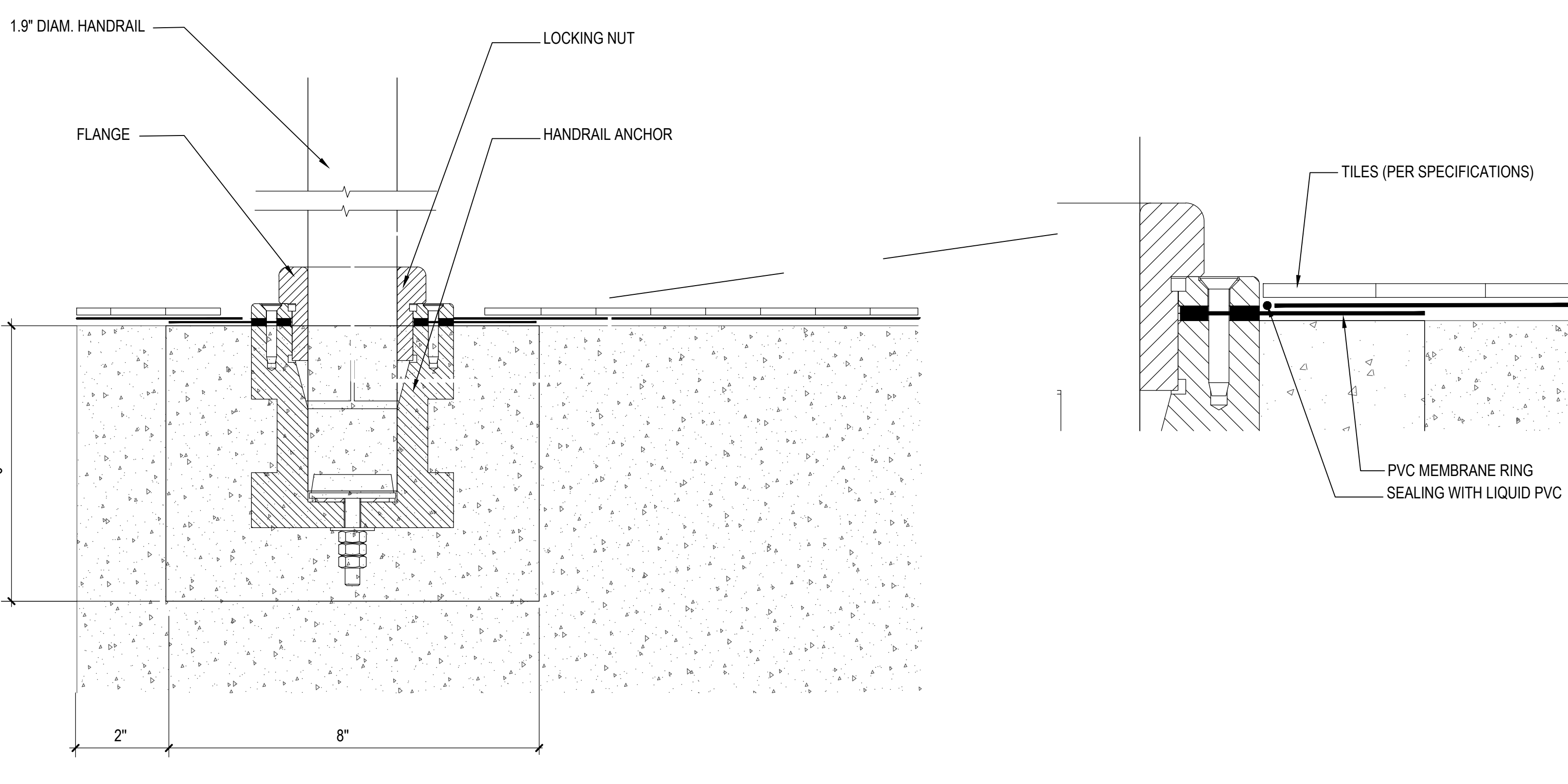
FLOATING WATER POLO GOALS

1/2"=1'-0"



STARTING PLATFORM

NO SCALE



HANDRAIL ANCHOR

6"=1'-0"

**SOUTH WHIDBEY PARKS  
AQUATIC CENTER**  
PID 812720 MAXWELTON RD  
LANGLEY, WA 98260



**100% DESIGN DEVELOPMENT**

ISSUE DATE: DECEMBER 01, 2023

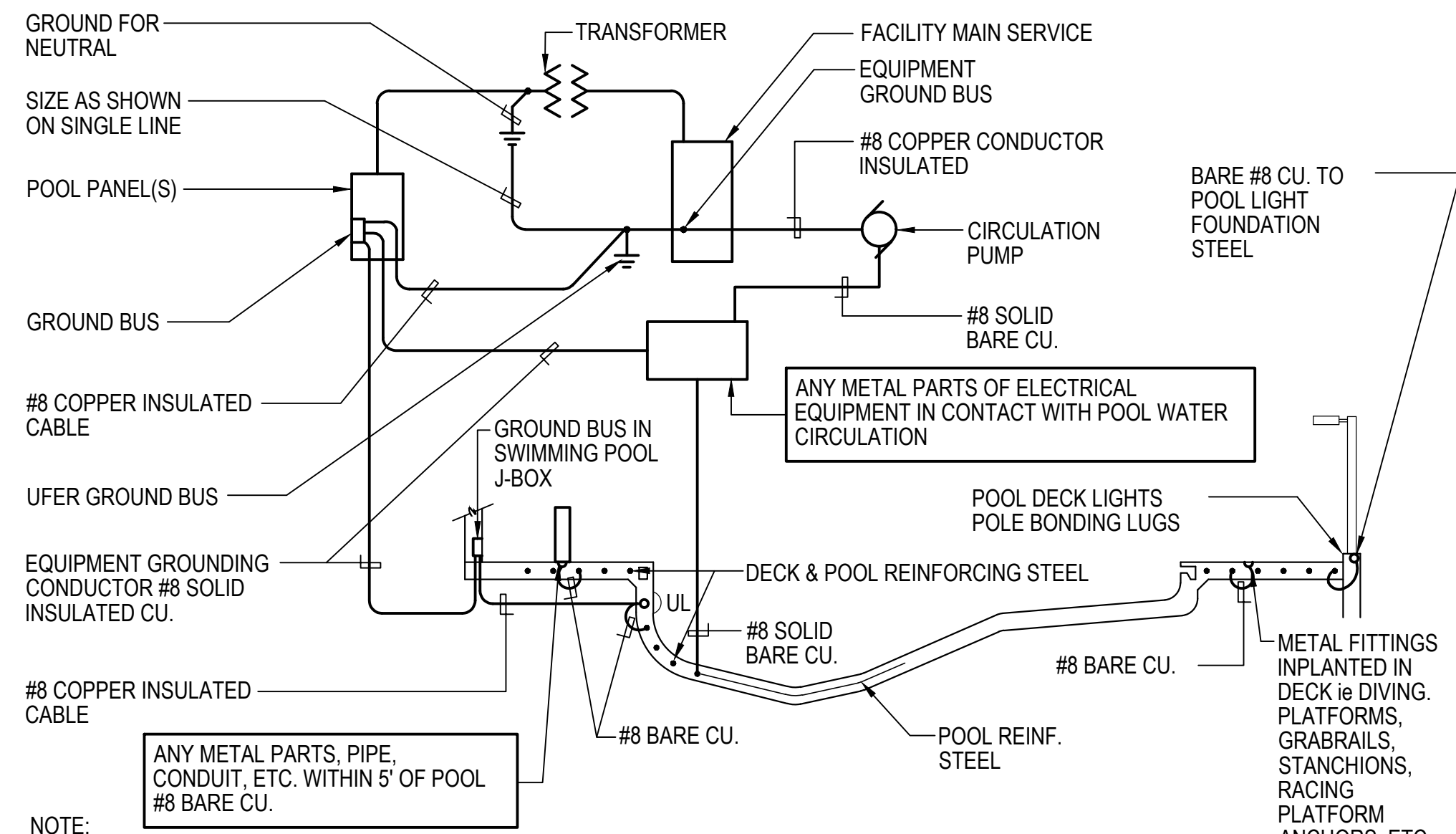
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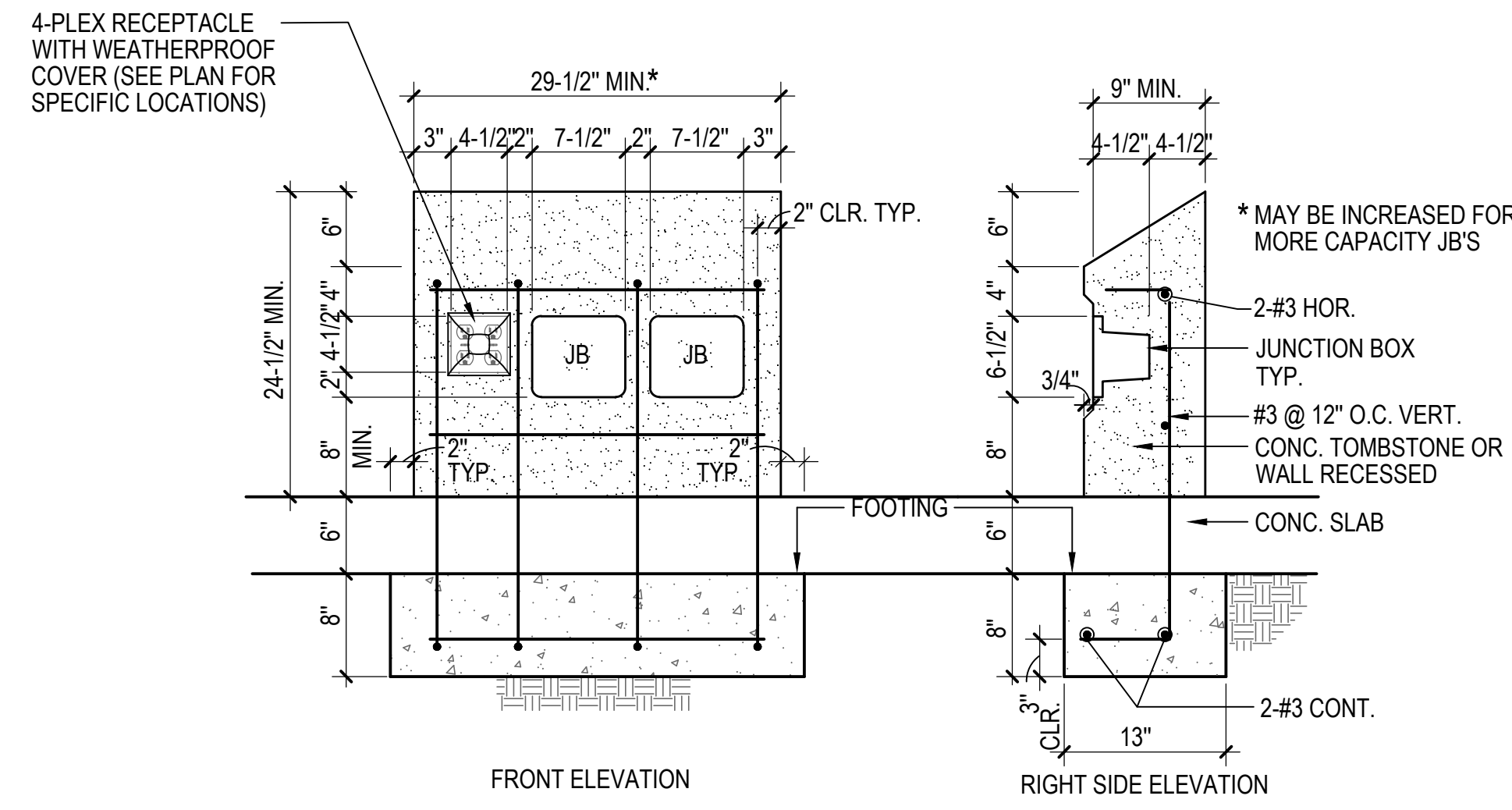
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PROJECT NO. 2022021.000

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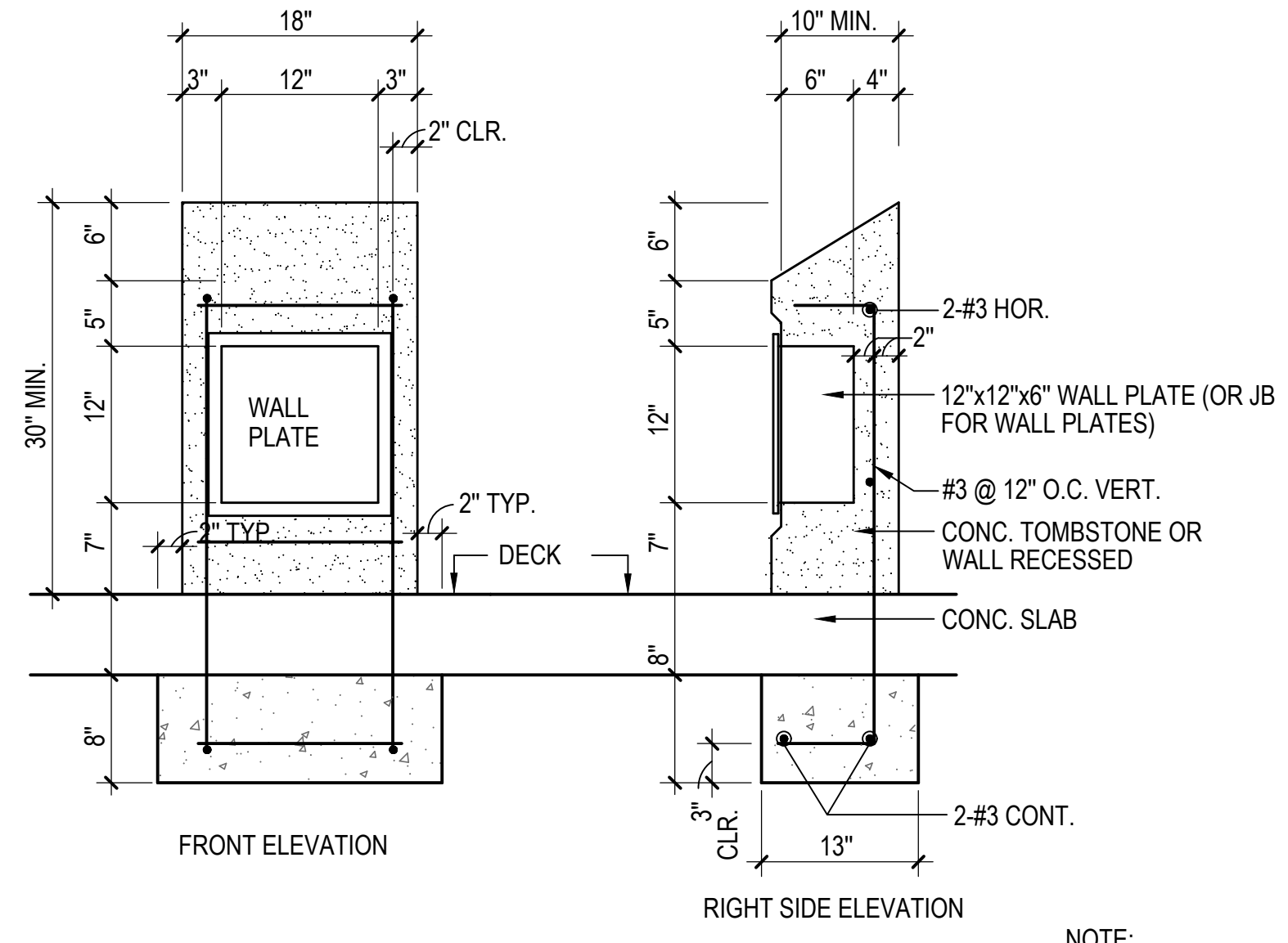




- NOTE:
- STRUCTURAL STEEL IN POOL DECK AND POOL SHALL BE BONDED TOGETHER (TIGHTLY MADE STEEL TIE-WIRES ARE APPROVED FOR BONDING STRUCTURAL ELEMENTS).
  - BONDING CONNECTOR TO COMMON GRID. (POOL STEEL MAY BE USED FOR THAT PURPOSE) SHALL BE MADE BY PRESSURE CONNECTORS OR CLAMPS OF BRASS, COPPER, OR COPPER ALLOY.
  - ALL GROUND BUSES SHALL BE SIZED FOR CONNECTION TO AWG SIZE 8 WIRE PROVIDING ONE SPARE TERMINAL.
  - GROUND AND BOND IN ACCORDANCE WITH ARTICLE 680 OF THE CALIFORNIA ELECTRICAL CODE. i.e. LADDERS, FENCING, POLE LIGHTS, DIVING & STARTING STANCHIONS, ACCESSIBLE LIFT ETC.
  - PROVIDE BONDING OF AUTOMATIC POOL COVER MOTORS REGARDLESS OF PROXIMITY TO POOL.



- NOTE: PROVIDE 3/4" CHAMFER ON ALL CONCRETE CORNERS. SACK & PATCH ALL EXPOSED SURFACES.

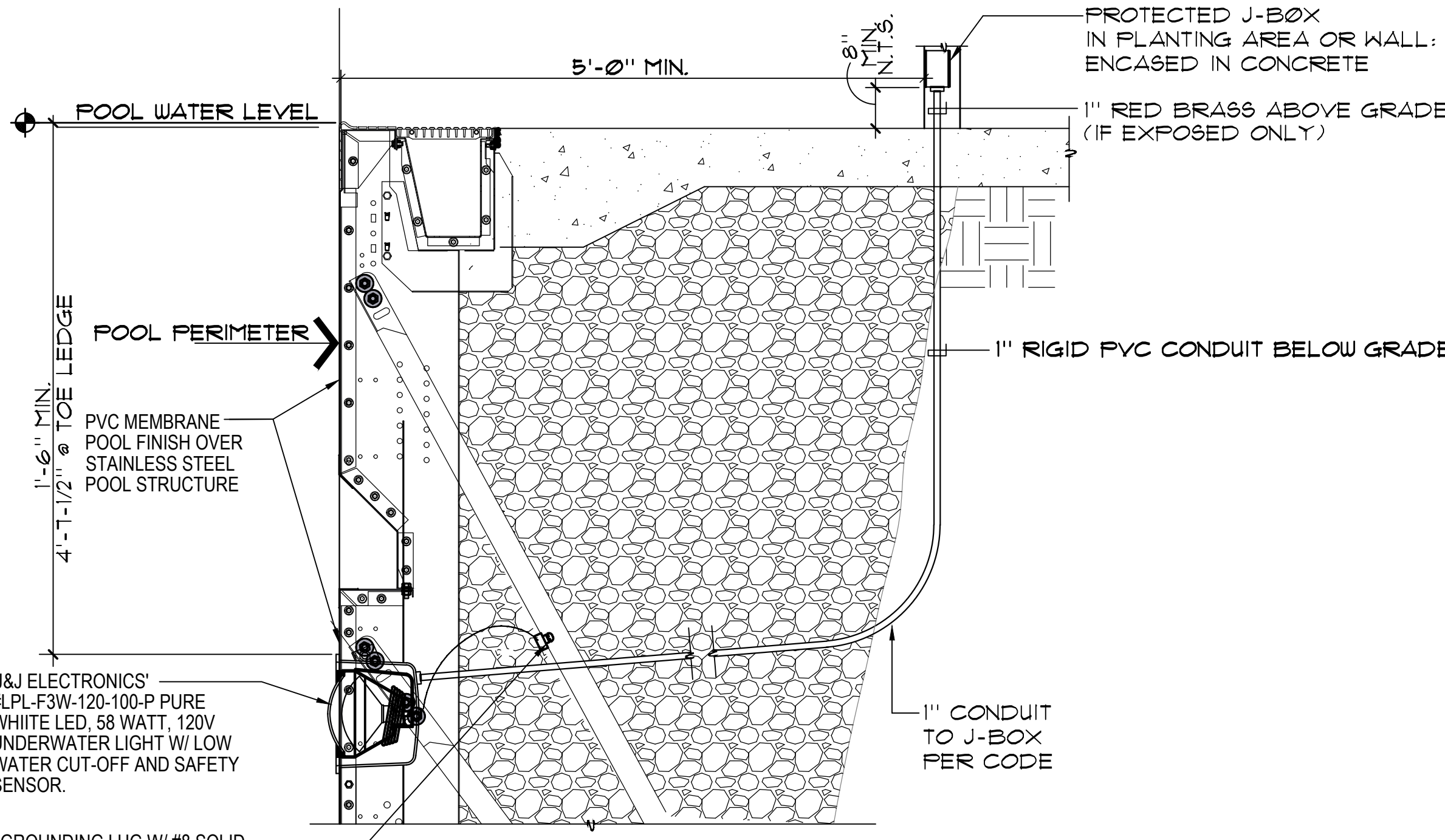


- NOTE: PROVIDE 3/4" CHAMFER ON ALL CONCRETE CORNERS. SACK & PATCH ALL EXPOSED SURFACES.

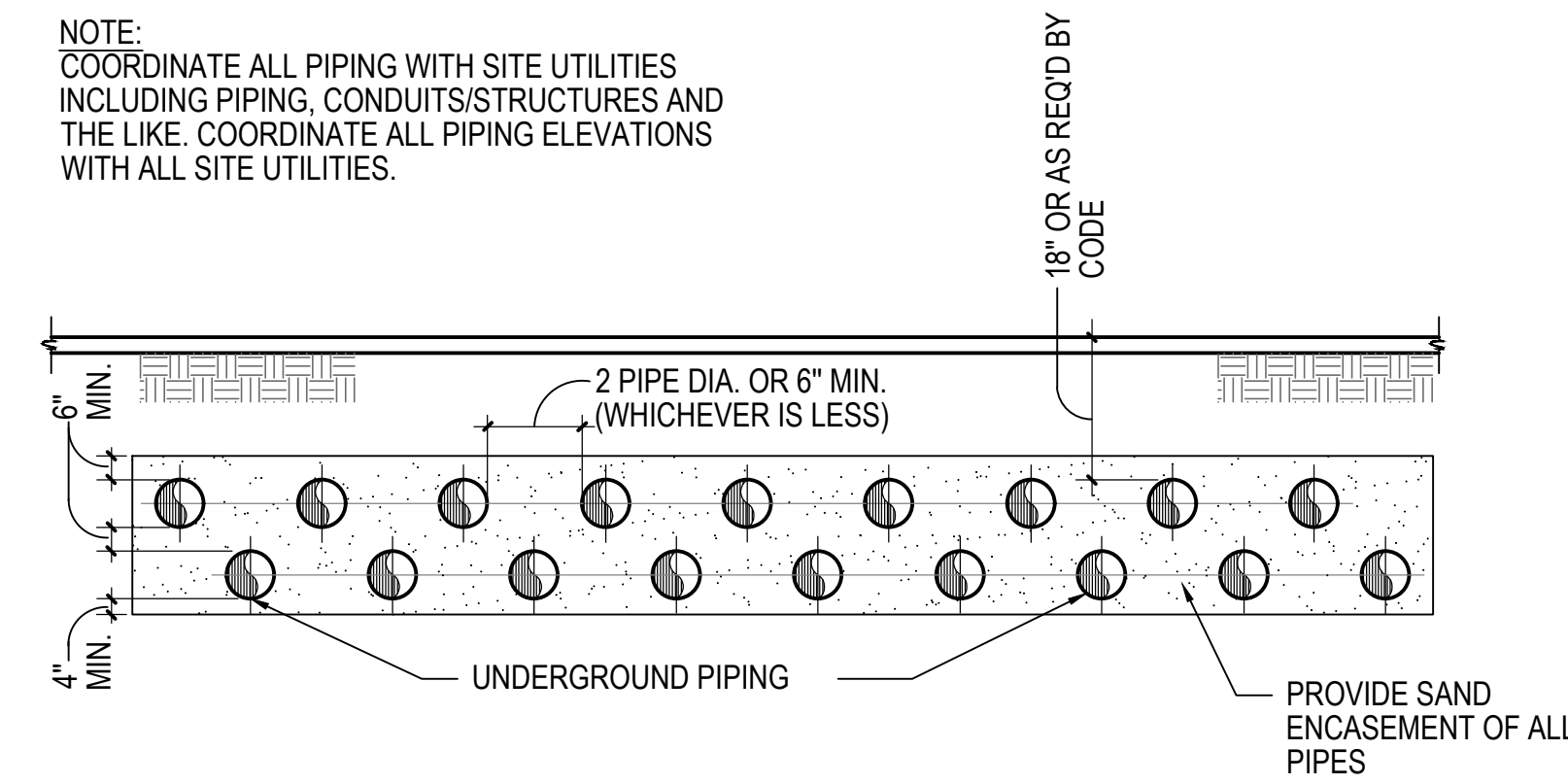
1 TYPICAL POOL BONDING AND GROUND DETAIL NO SCALE

2 UNDERWATER LIGHT JUNCTION BOX SURROUND DETAIL 1"=1'-0"

3 TIMING SYSTEM WALL PLATE DETAIL 1"=1'-0"

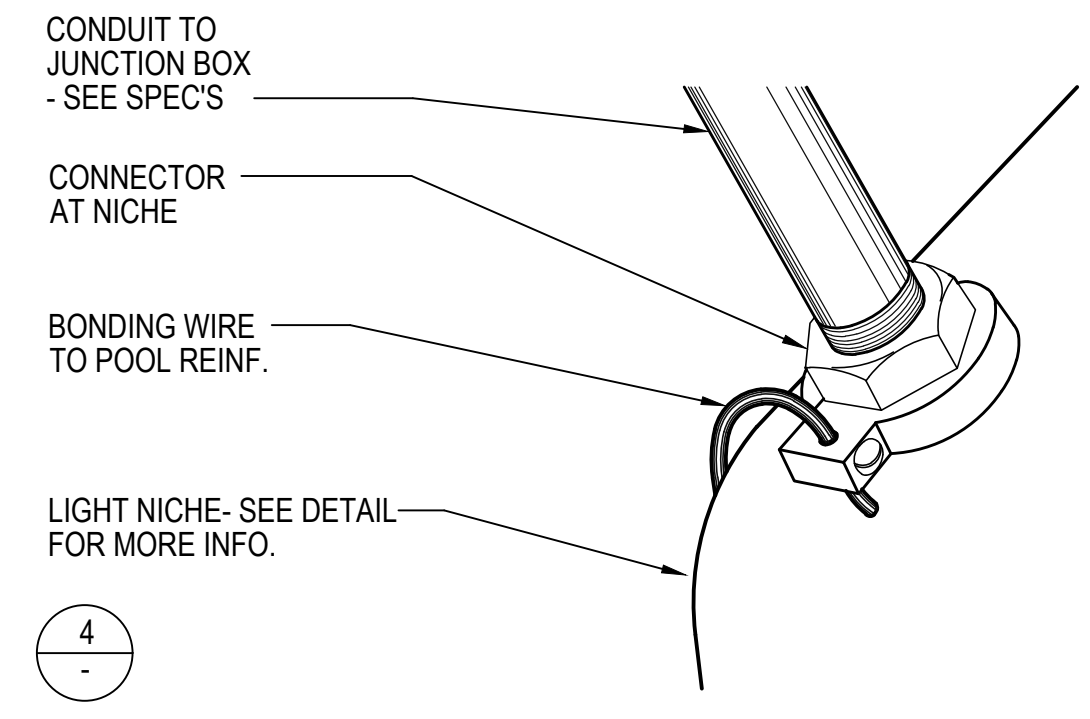


- UNDERWATER LIGHT NOTES:
- ALL CONDUITS IN POOL LIGHTING SYSTEM TO BE A MINIMUM OF 1"Ø.
  - CONDUCTORS TO POOL J-BOXES SHALL BE MINIMUM 2-#8 & #8 (SEE UNDERWATER LIGHT PLAN) SOLID UNBROKEN TO MAIN PANEL ISOLATED GROUND BUSS. THIS BUSS IS TO BE CONNECTED WITH SOLID INSULATED #8 COPPER WIRE TO UFER & COLDWATER GROUNDING LUG ON GROUNDING BUSS. UPSIZE CONDUCTORS AS REQUIRED FOR HOMERUNS EXCEEDING 100'.
  - ALL BRASS POOL J-BOXES SHALL BE FLUSH MOUNTED IN WALLS. IF FLUSH MOUNTING IS NOT POSSIBLE THEN MOUNTING SHALL BE SURFACE MOUNTED AND CONCRETE ENCASED.
  - CONDUITS WHERE ALLOWED BY CODE SHALL BE RIGID P.V.C. (POLYVINYL CHLORIDE) FROM WET NICHES TO BRASS J-BOXES TO LIGHTING PANEL. ALL CONDUITS IN FREE AIR SPACE AND ALL RISERS SHALL BE RED BRASS TYPICAL. PVC CONDUITS SHALL BE SOLVENT WELDED WITH PURPLE PRIMER AND GRAY HEAVY BODIED GLUE.
  - LIGHTING CONTACTORS SHALL BE "ALLEN-BRADLEY" #500 L OR EQUAL MOUNTED IN A NEMA 12 HINGED COVER - LOCKABLE ENCLOSURE. CONTACTORS TO BE SWITCHED BY MOMENTARY SWITCH EQUAL TO "HUBBELL" #1557 MOUNTED IN J-BOX IN MECHANICAL EQUIPMENT ROOM. REFER TO ELECTRICAL PLANS FOR LOCATION OF OWNER COORDINATED REMOTE UNDERWATER LIGHT SWITCH.
  - BRASS POOL J-BOXES SHALL BE "HYDREL" #1719; W/ 1" HUBS OR EQUAL. (NO DIE CAST BOXES).
  - STRINGS SHALL BE PULLED IN ALL CONDUITS PRIOR TO PLACEMENT OF CONCRETE.
  - LOCAL, COUNTY OR CITY CODES SHALL BE ADHERED TO. SPECIFICATIONS TO BE IN ACCORDANCE WITH SECTION 680 OF LATEST N.E.C. BOOK.
  - PROVIDE PULL BOXES AS MAY BE REQUIRED FOR RUNS EXCEEDING 150 FT. OR DUE TO CHANGES IN GRADE OR DIRECTION.
  - CONTRACTOR SHALL TEST UNDERWATER POOL LIGHT GFC CIRCUITS AND PROVIDE LETTER TO OWNER/DSA UPON SUCCESSFUL TEST.
  - SEAL CONDUIT OPENING IN LIGHT NICHE WITH SILICON CAULKING AFTER LIGHT IS INSTALLED.
  - PRIOR TO LIGHT INSTALLATION, PROVIDE MINIMUM 10 PSI PRESSURE TEST ON ALL POOL LIGHT CONDUITS FOR FOUR (4) HOURS OBSERVED BY INSPECTOR OF RECORD. MAINTAIN PRESSURE UNTIL ALL DECKS ARE POURED.

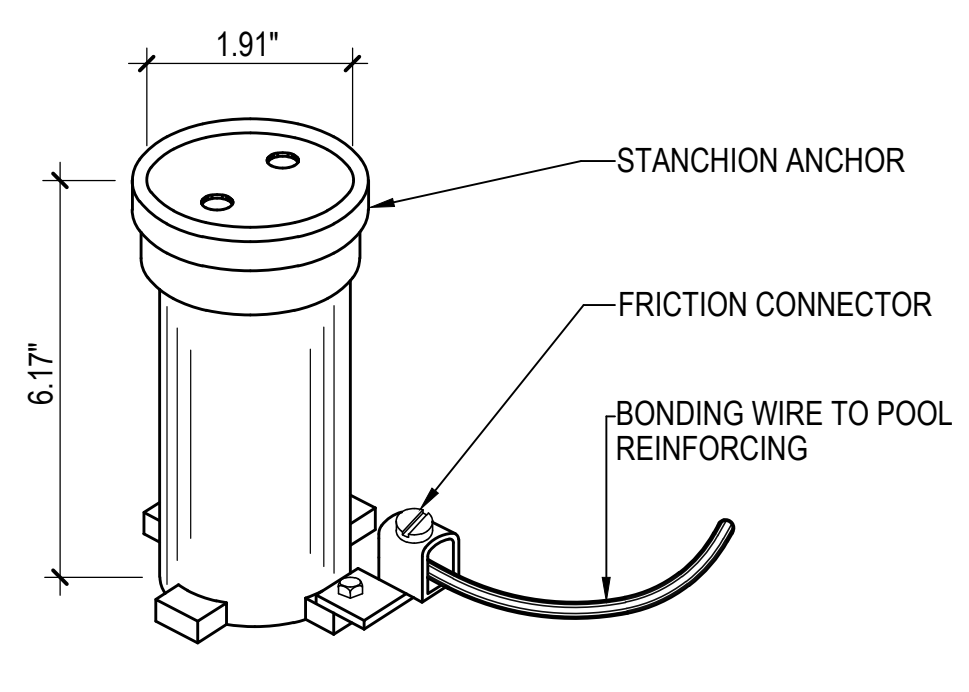


4 UNDERWATER LIGHT 1"=1'-0"

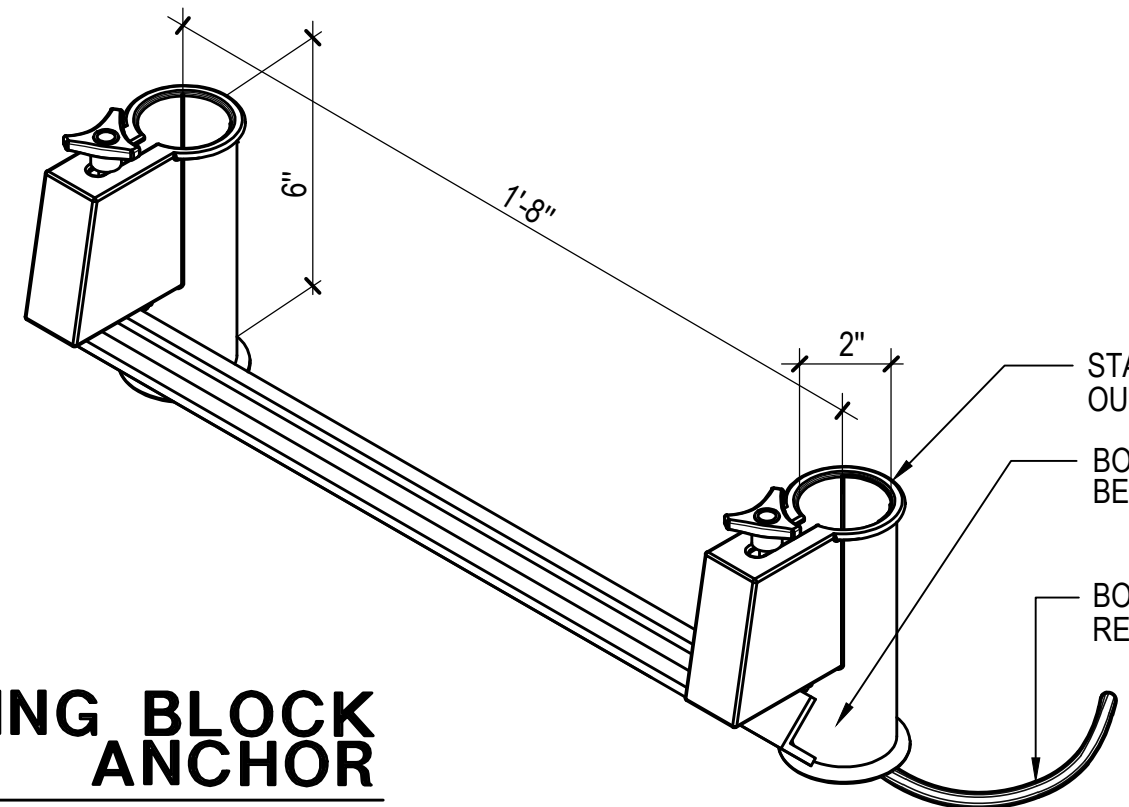
5 STACKED UNDERGROUND PIPING NO SCALE



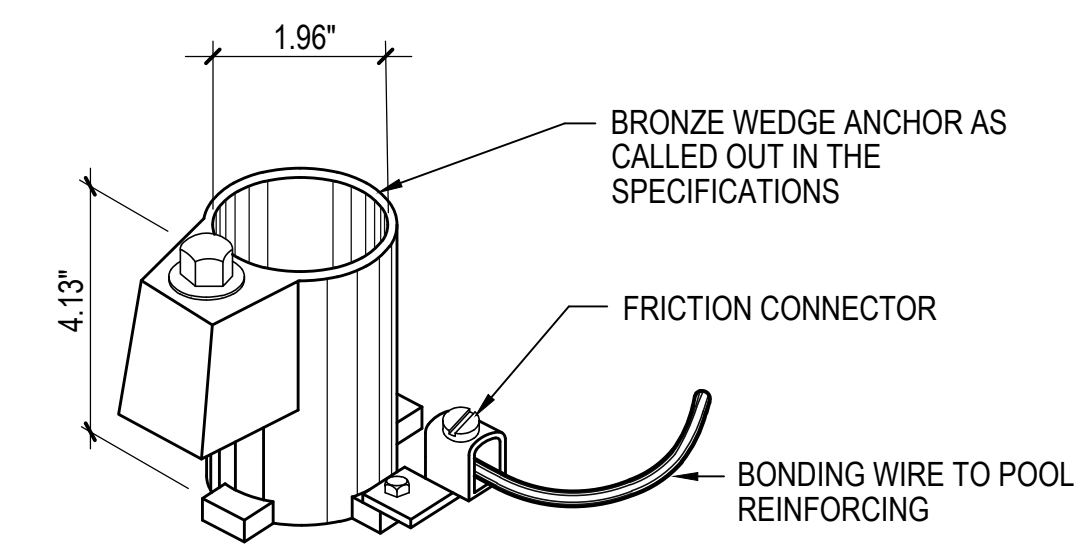
4 NICHE CONNECTOR NO SCALE



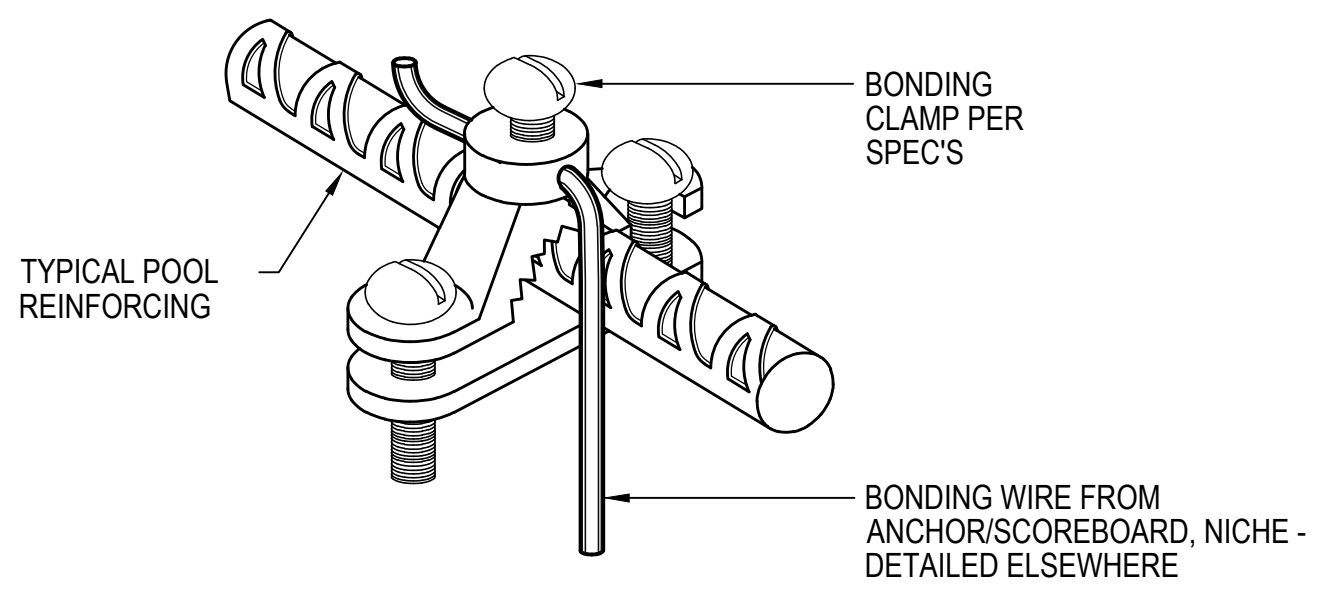
STANCHION ANCHOR NO SCALE



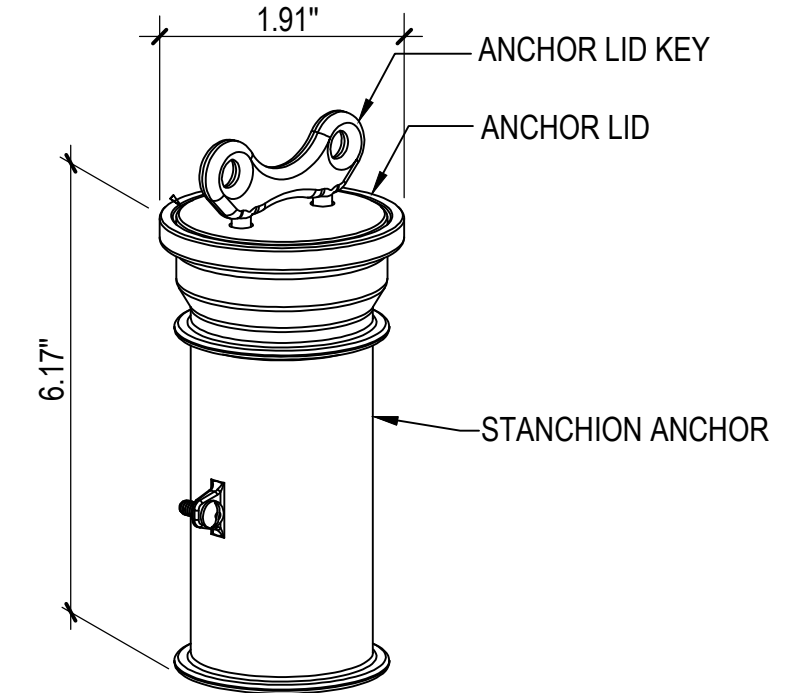
STARTING BLOCK ANCHOR NO SCALE



WEDGE ANCHOR NO SCALE



BONDING CLAMP NO SCALE



ACCESSIBLE LIFT STANCHION ANCHOR NO SCALE

6 BONDING DETAILS NO SCALE

**SOUTH WHIDBEY PARKS  
AQUATIC CENTER**  
PID 812720 MAXWELTON RD  
LANGLEY, WA 98260



100% DESIGN DEVELOPMENT

ISSUE DATE: DECEMBER 01, 2023

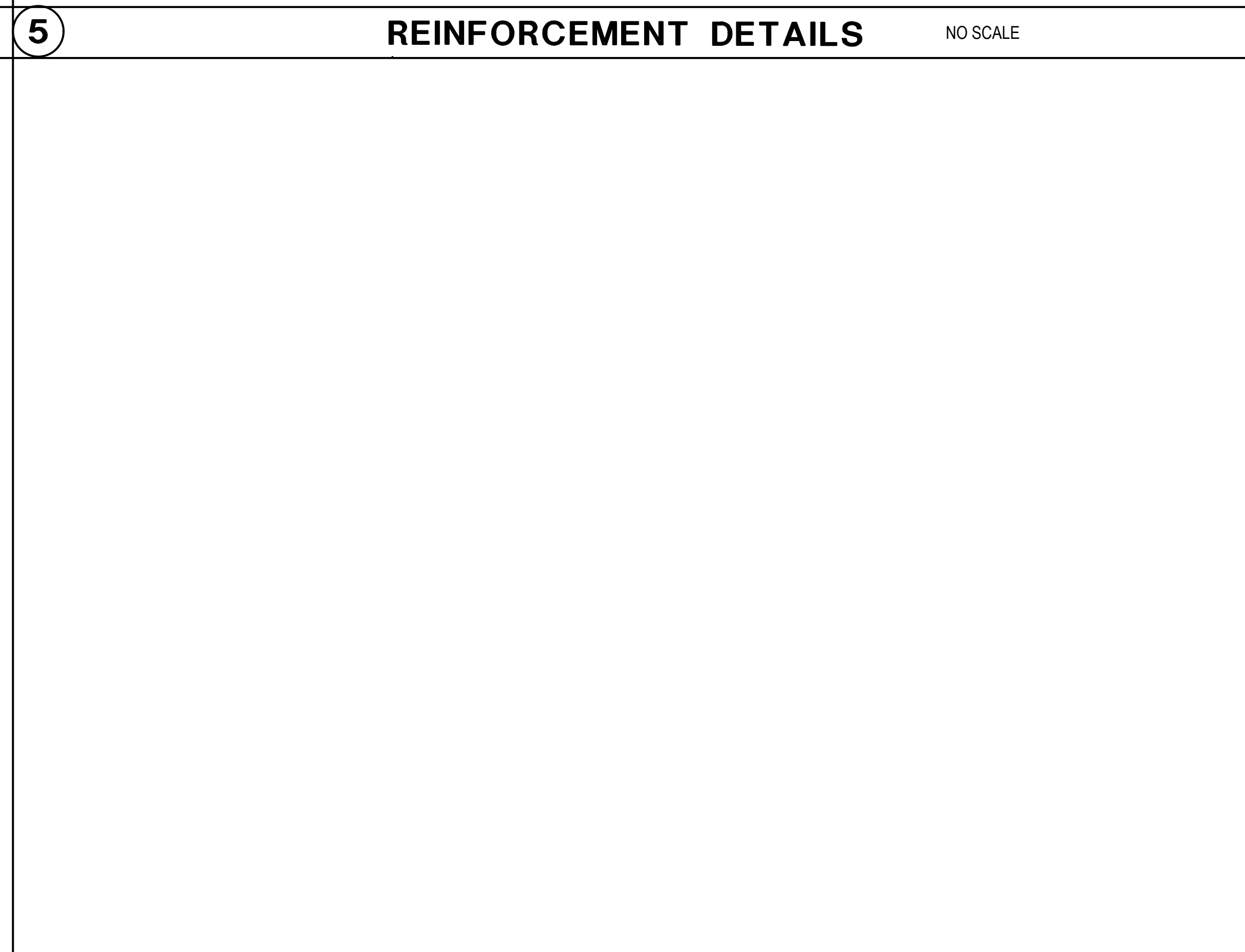
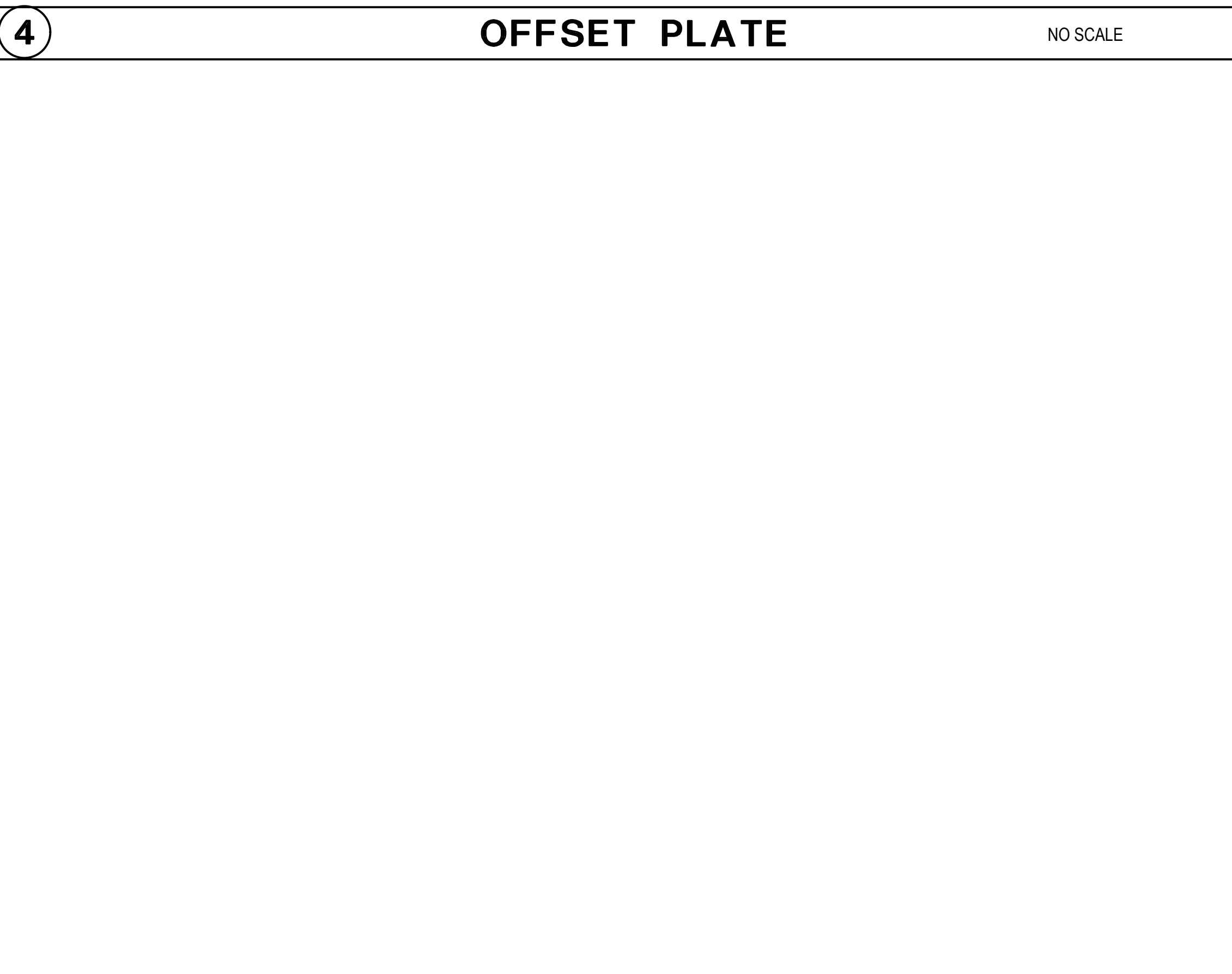
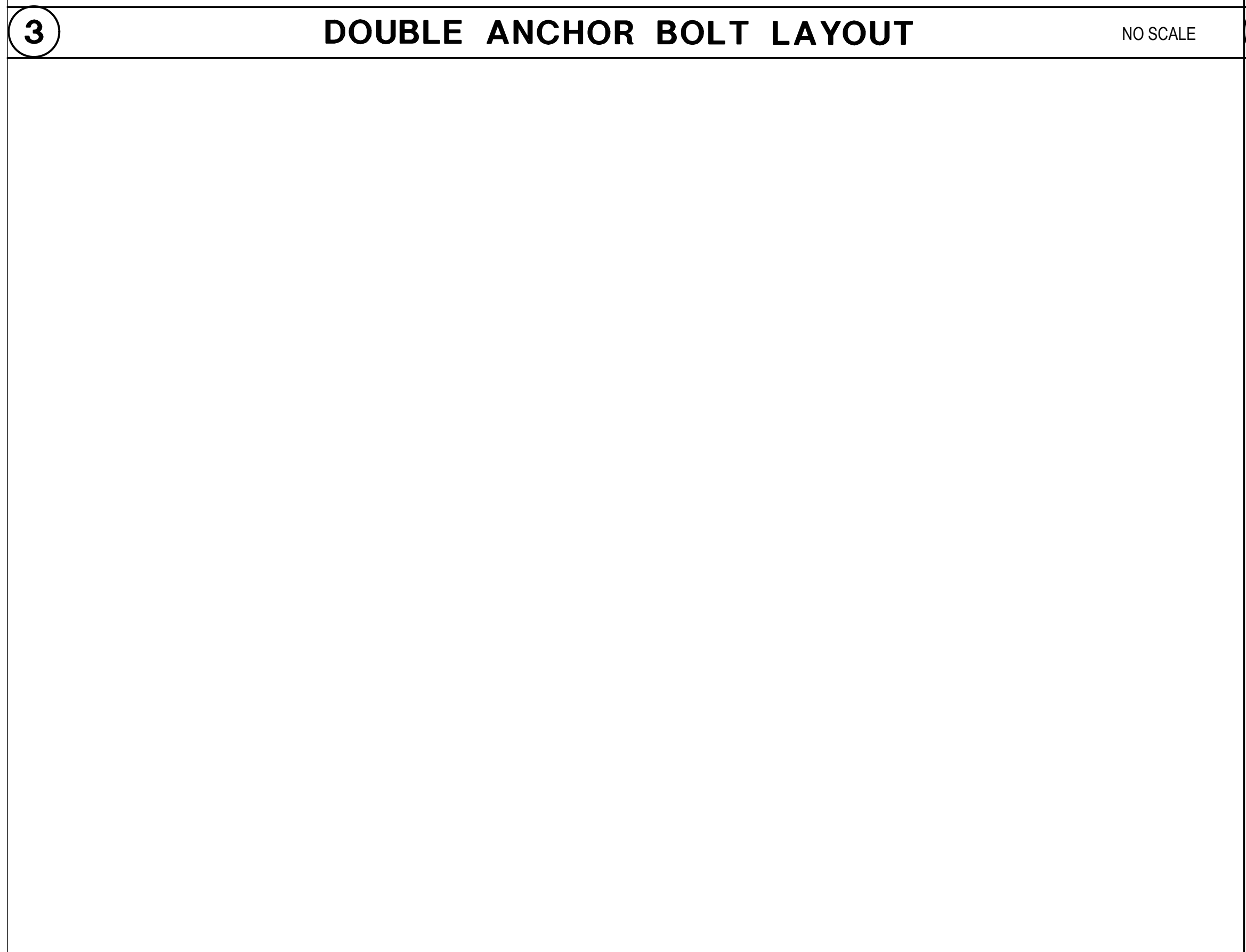
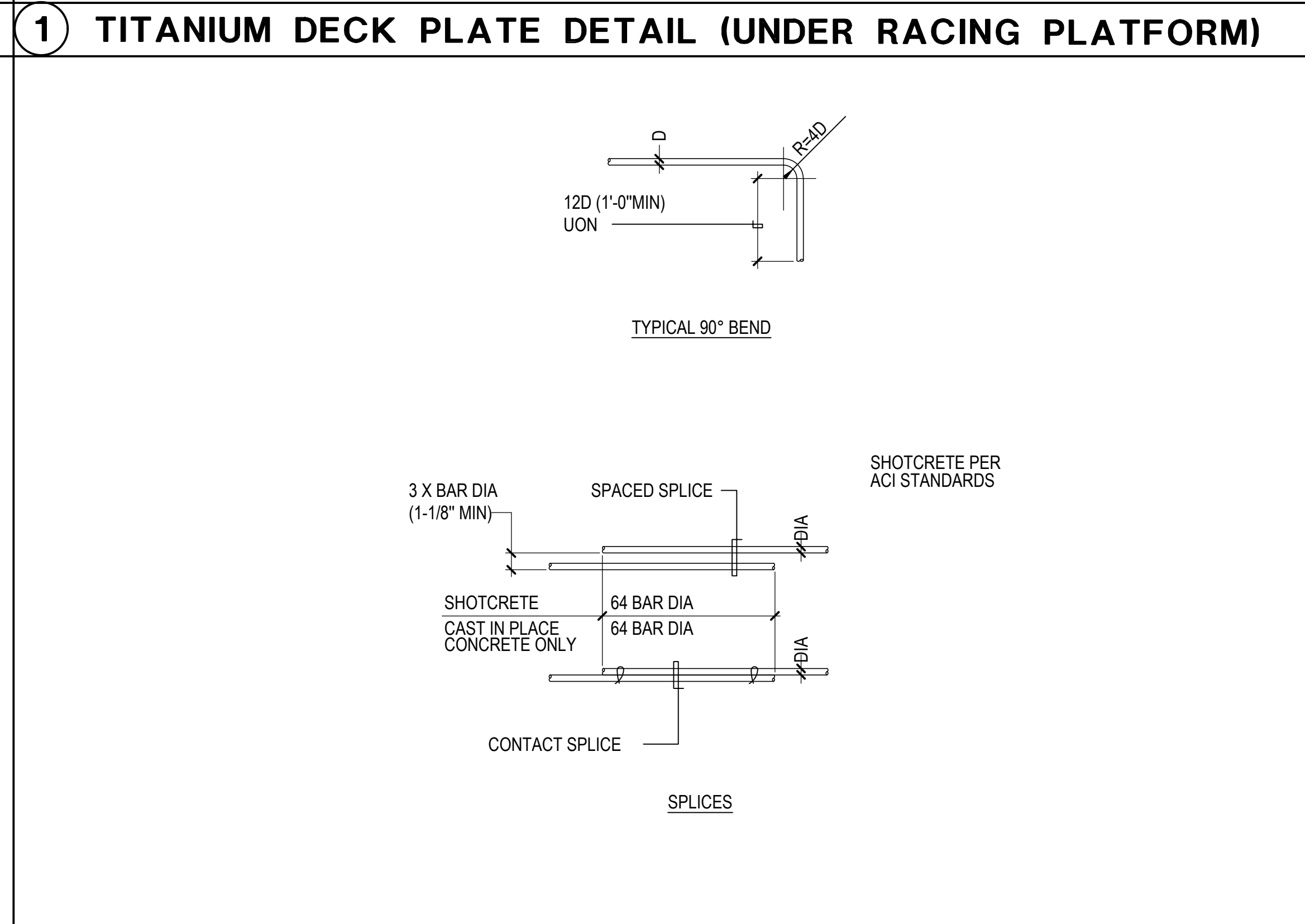
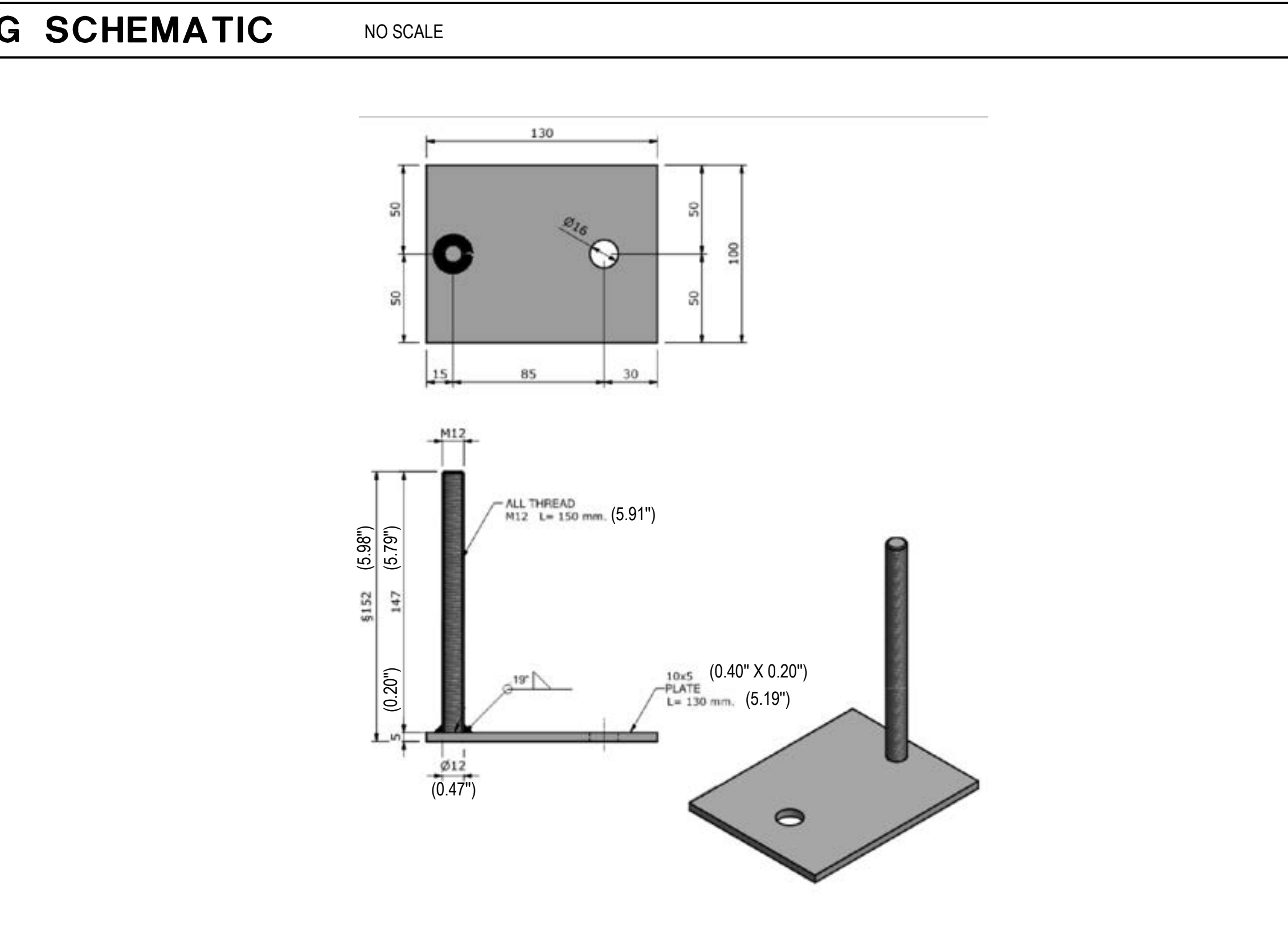
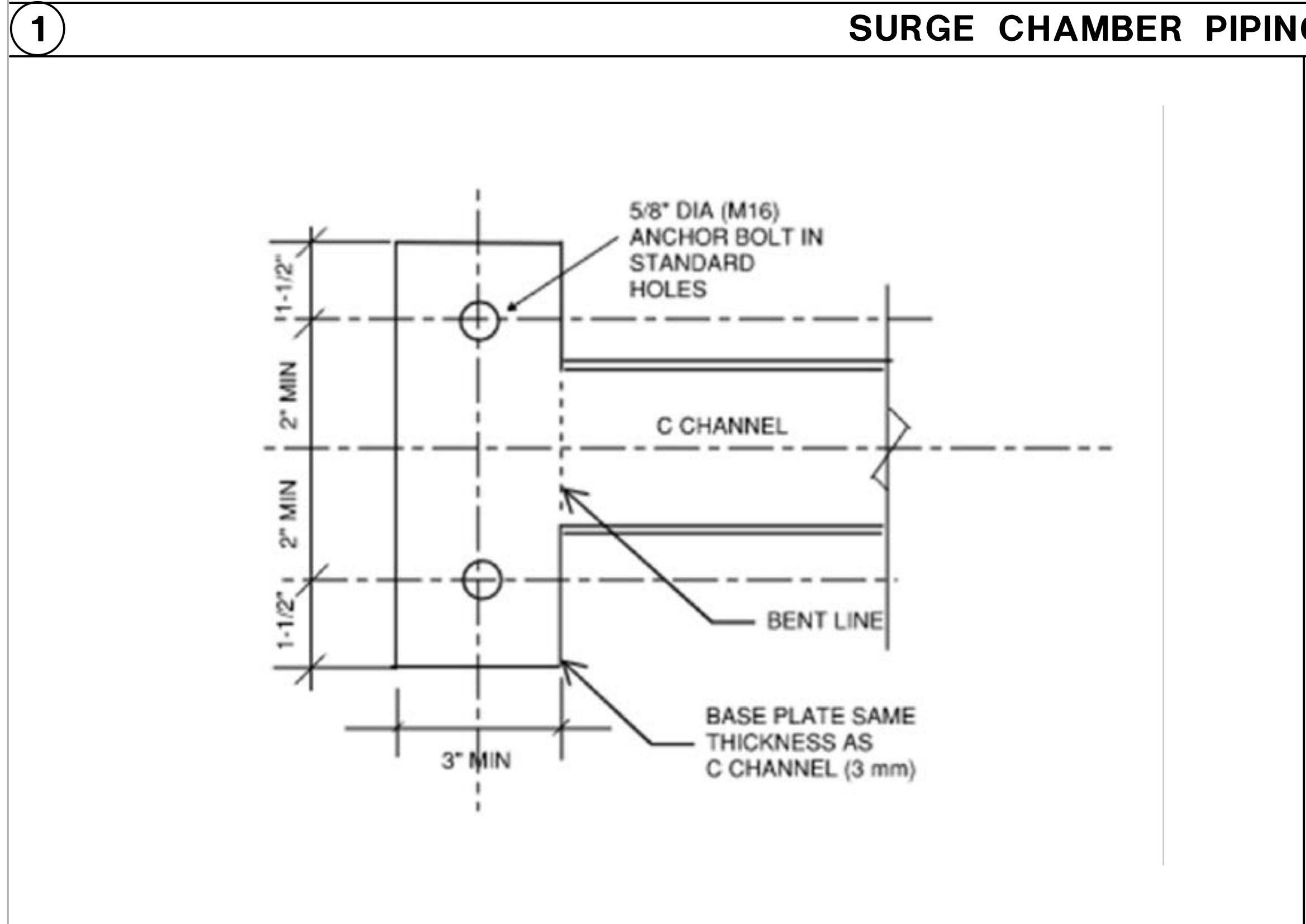
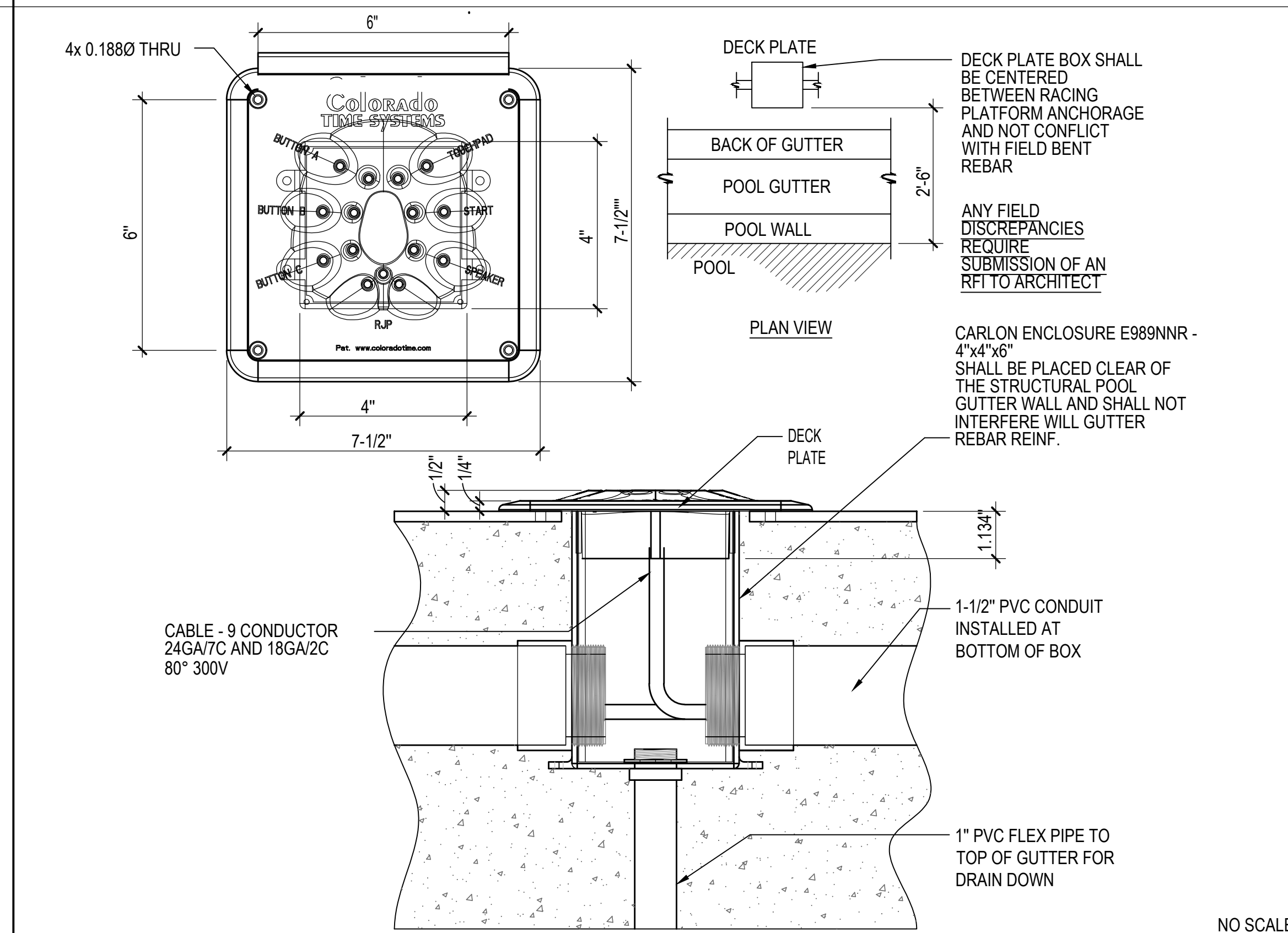
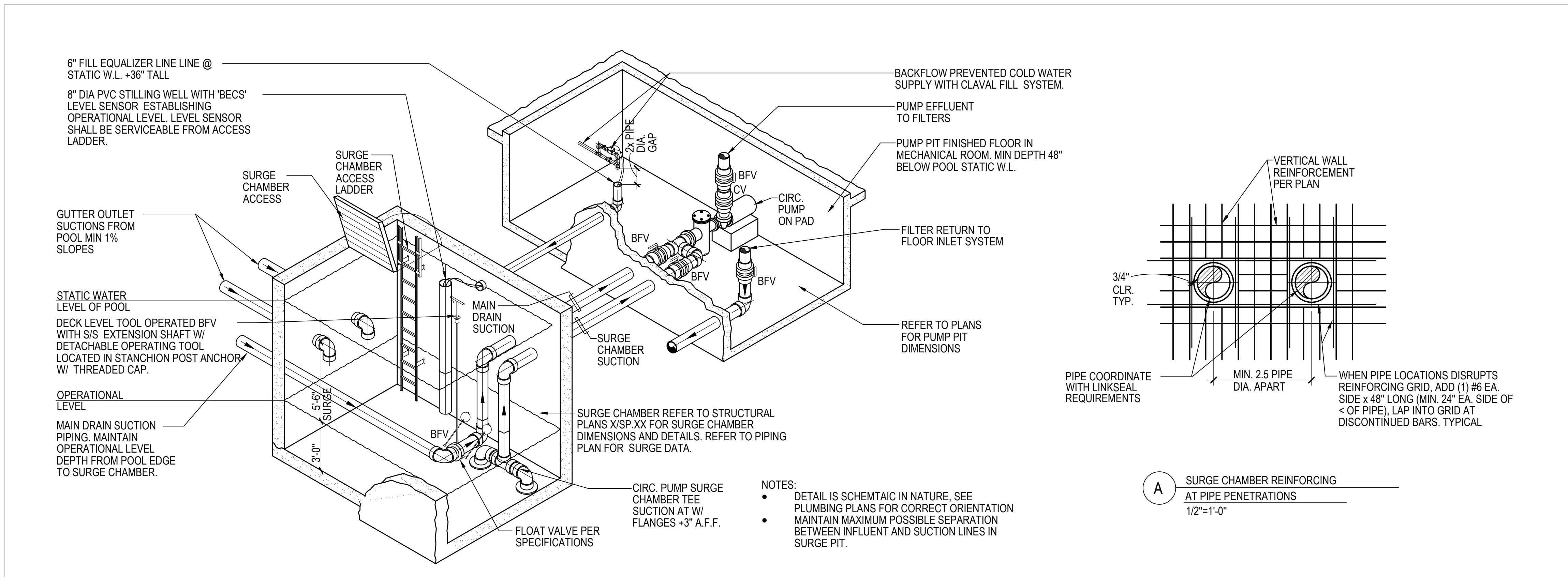
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Rev #	Date	Description

CONTENTS  
**DETAILS**

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PROJECT NO: 2022021.000

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**AP.8**





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 DEVELOPMENT**

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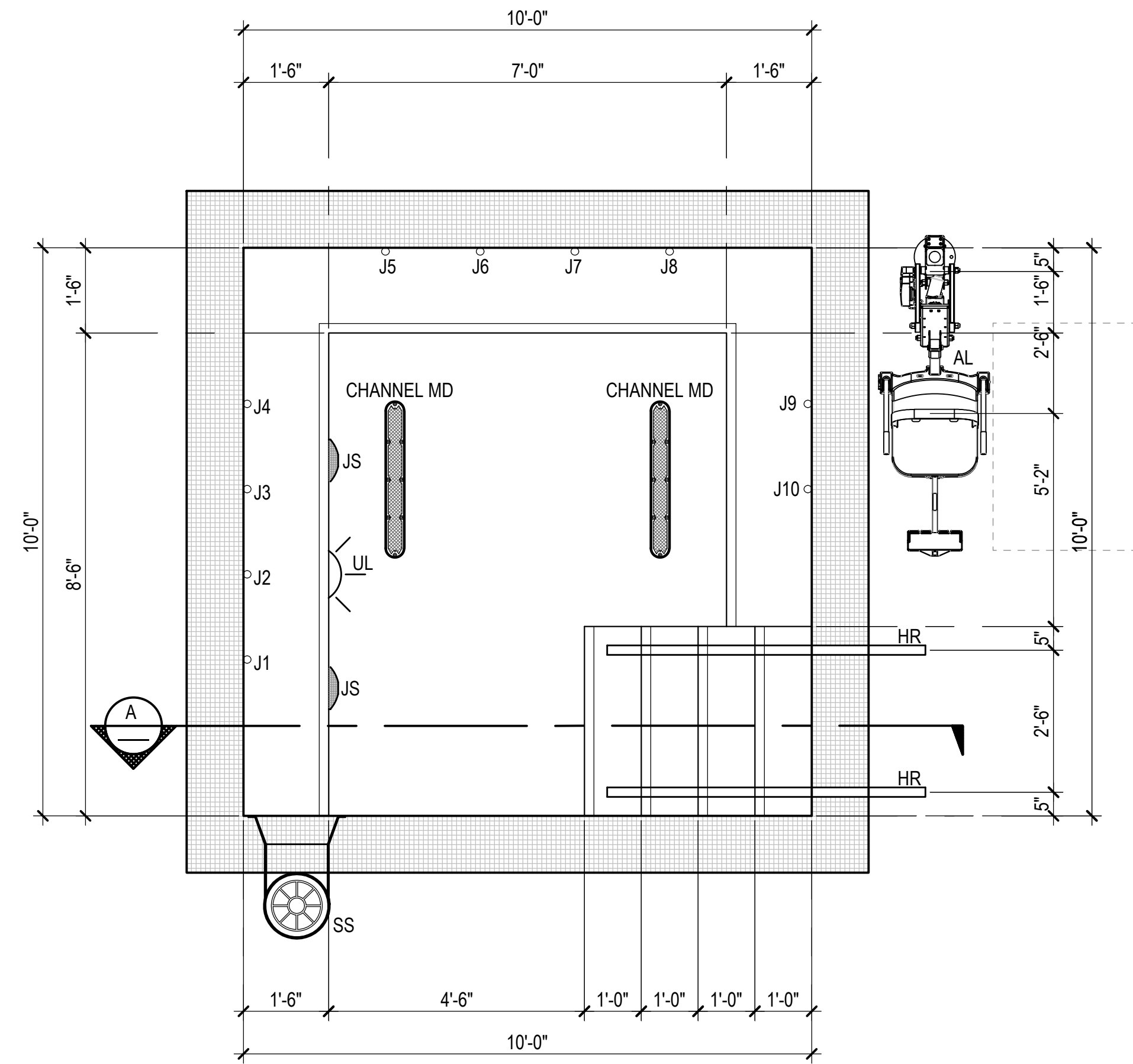


**HYDROTHERAPY SPA DATA**

SURFACE AREA	=	100 SQ. FT.
PERIMETER	=	40 FT.
DEPTH	=	3'-6"
VOLUME	=	1,593 GAL.
30 MIN. TURNOVER	=	53 GPM

**LEGEND**

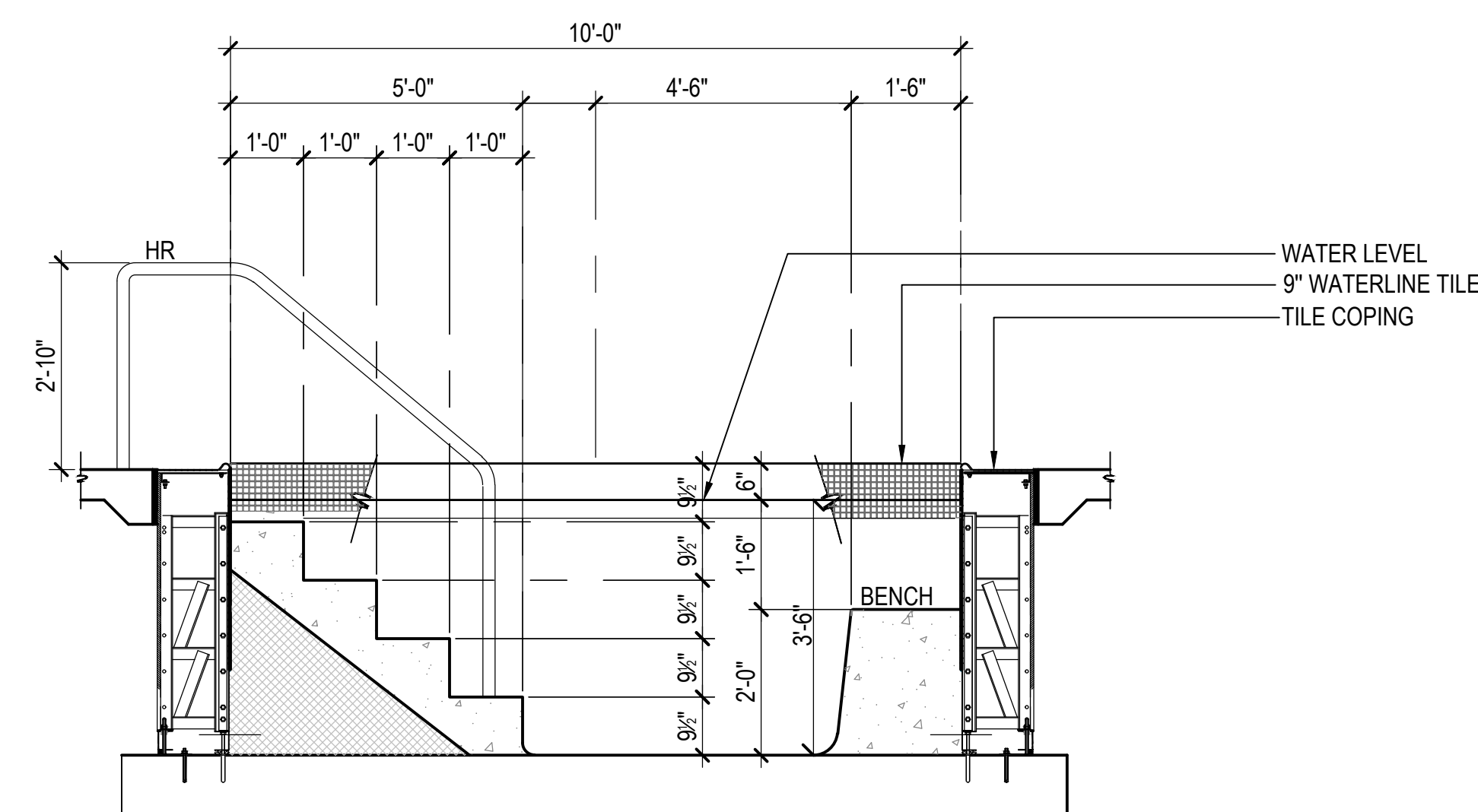
HR	=	HANDRAIL
DM	=	DEPTH MARKER
ND	=	NO DIVING
AL	=	ACCESSIBLE LIFT
MD	=	MAIN DRAIN
UL	=	UNDERWATER LIGHT
WLC	=	WATER LEVEL CONTROL
JS	=	JET SUCTION
J1-J10	=	SPA JETS
WI	=	WALL INLET



1

**HYDROTHERAPY SPA PLAN**

1/2"=1'-0"



**HYDROTHERAPY SPA SECTION**

1/2"=1'-0"

**SOUTH WHIDBEY PARKS  
 AQUATIC CENTER**

PID 812720 MAXWELTON RD  
 LANGLEY, WA 98260



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 DEVELOPMENT**

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CONTENTS:  
**HYDROTHERAPY  
 SPA PLAN AND  
 SECTION**

SCALE: As Indicated  
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 CHECKED: Checker  
 PROJECT NO: 2022021.000

SHEET:  
**HS.1**

A



**SOUTH WHIDBEY PARKS  
AQUATIC CENTER**

PID 812720 MAXWELTON RD  
LANGLEY, WA 98260



**100% DESIGN  
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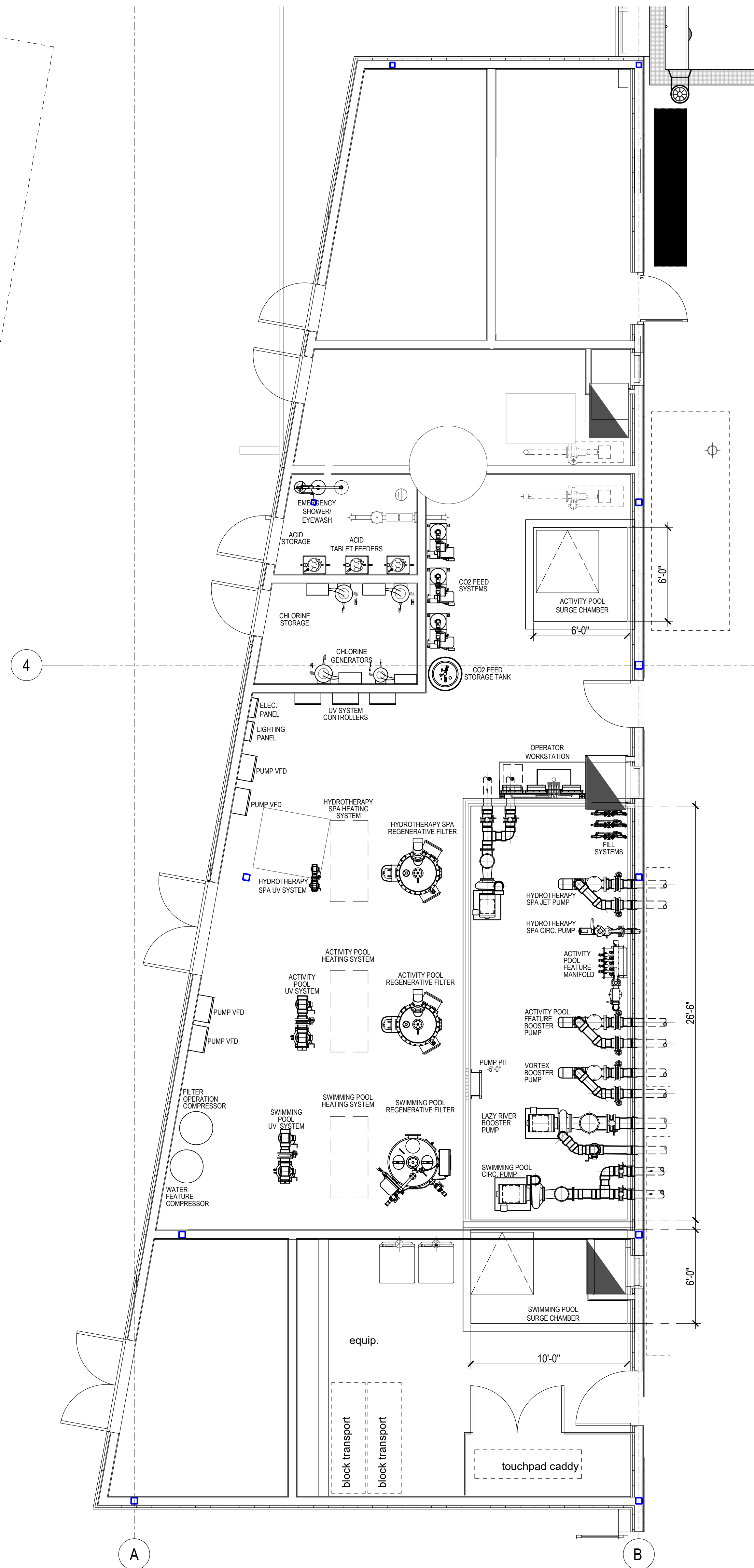
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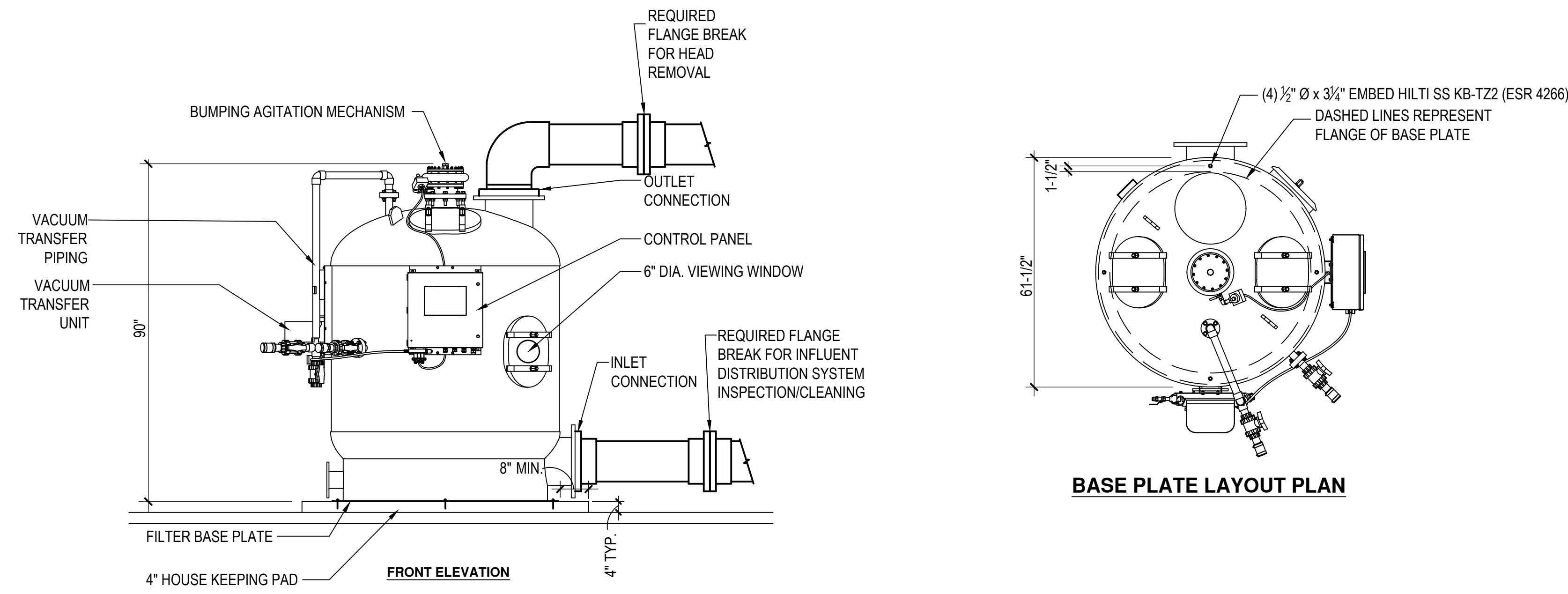
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**MECHANICAL ROOM  
PLAN**

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DRAWN: Author  
CHECKED: Checker  
PROJECT NO: 202201.000

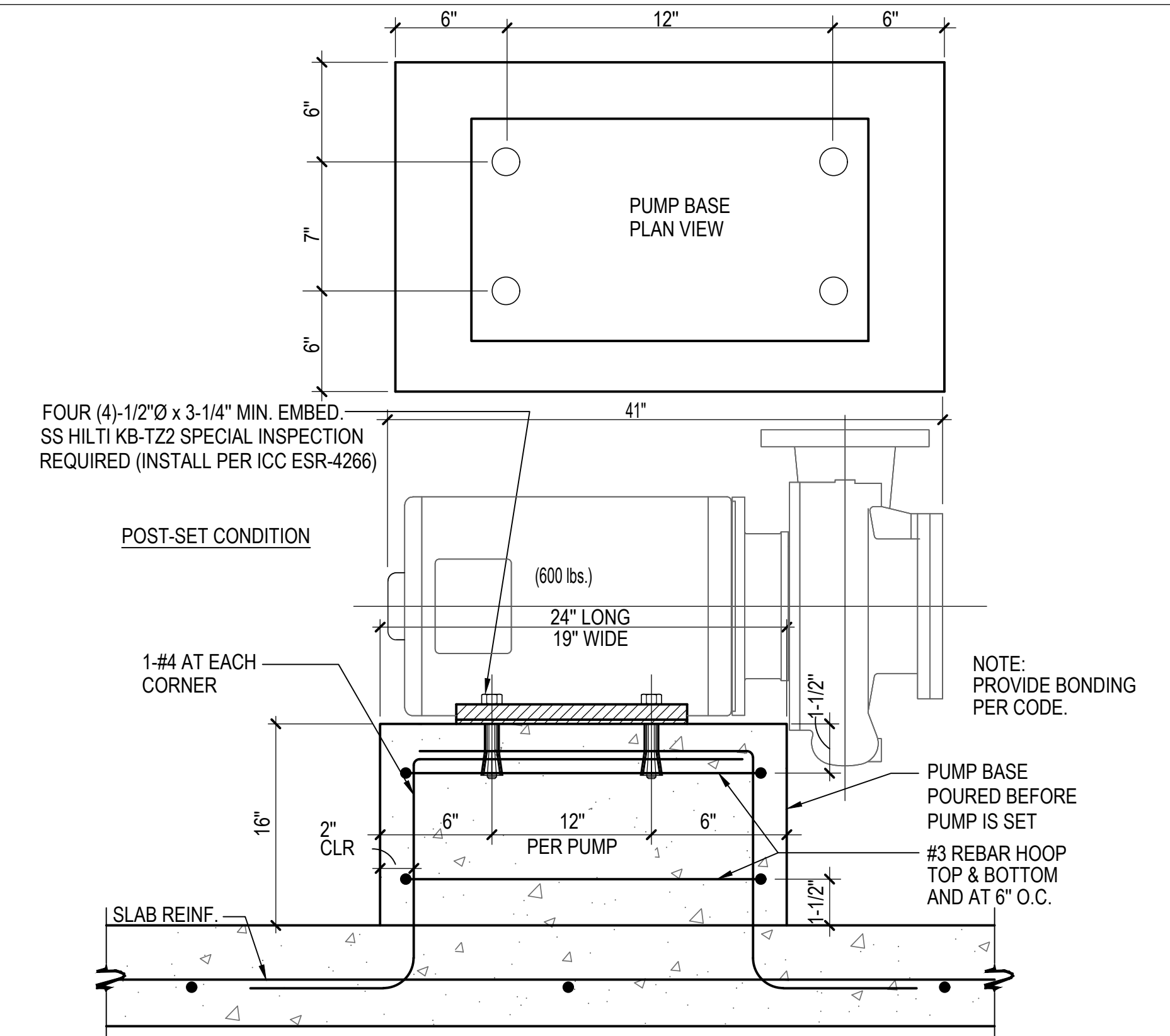
SHEET:  
**MR.1**







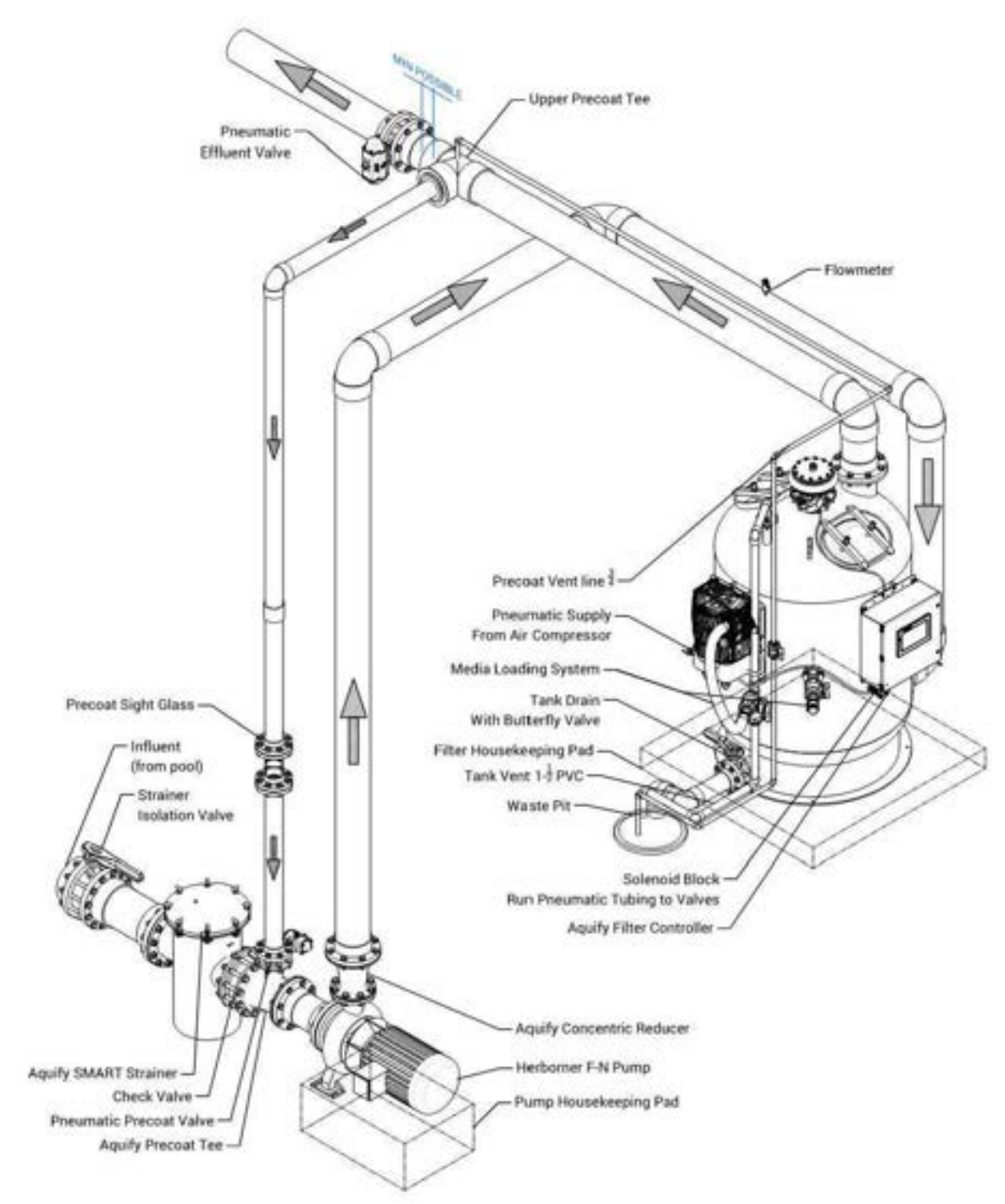
**1 FILTER ANCHORAGE**



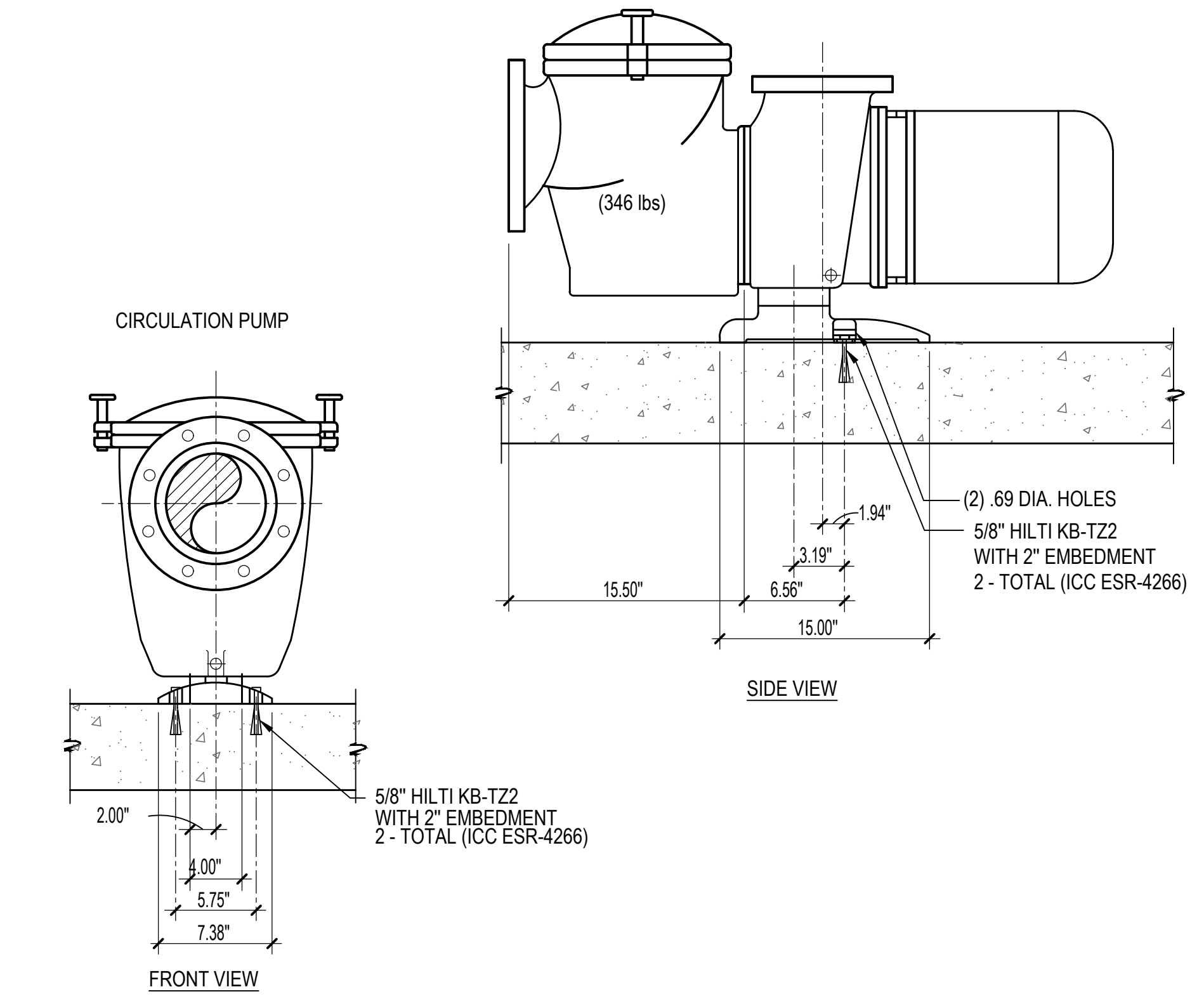
**2 PUMP ANCHORAGE**

CODE	ITEM
PMF	AQUIFY PRECOAT FILTER
PMF-CNTRL	AQUIFY PRECOAT FILTER CONTROLLER
VBFP	VBFP
4018	PRECOAT SIGHT GLASS
VBFRP	PNEUMATIC EFFLUENT VALVE
	AIR COMPRESSOR
	MEDIA LOADING SYSTEM AND TANK
FLW-MTR	FLOW METER

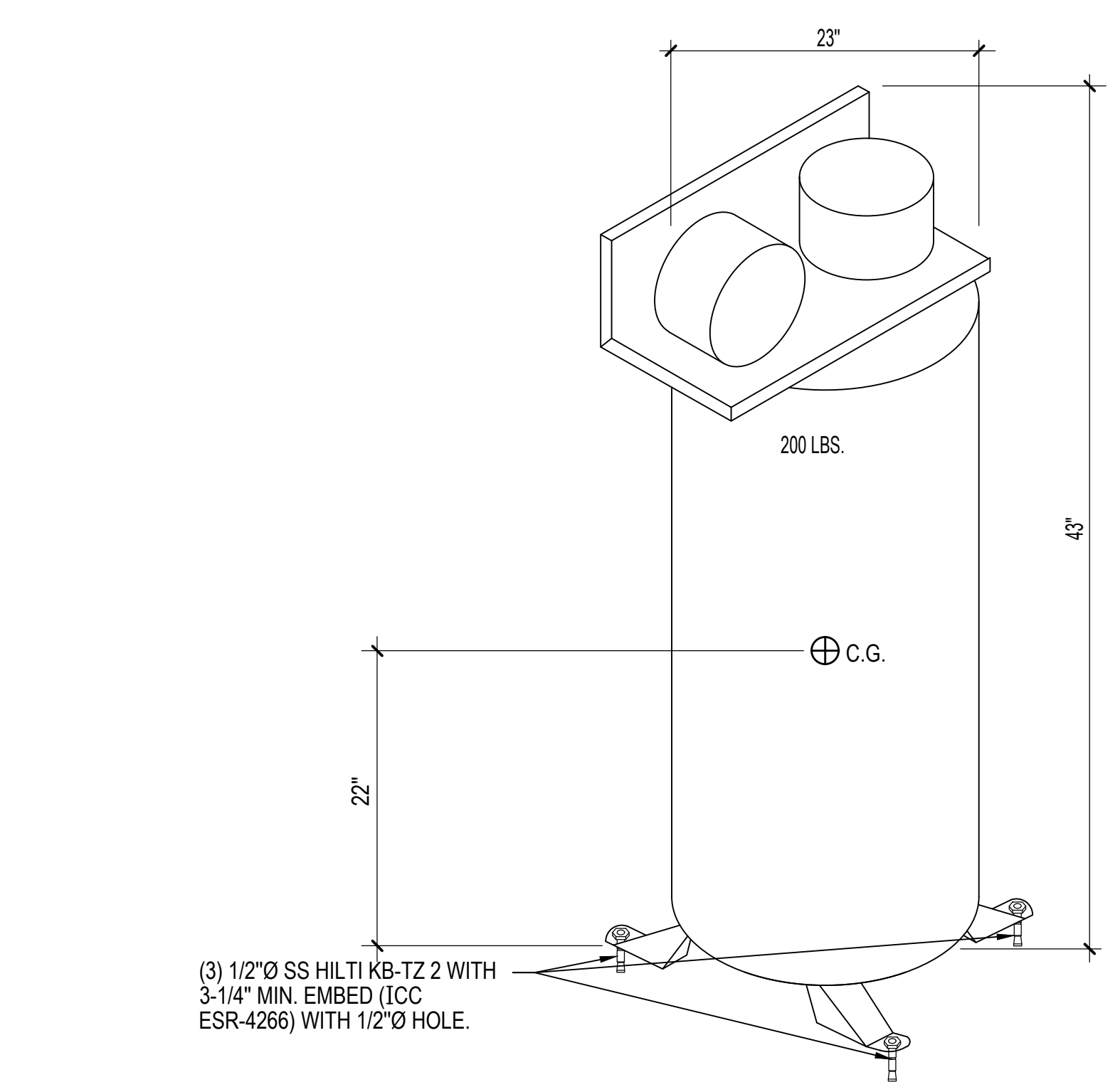
OPTIONAL ACCESSORIES	
CODE	ITEM
VBFL	STRAINER ISOLATION VALVE
STR	AQUIFY SMART STRAINER
VCK	STRAINER CHECK VALVE
TEE	AQUIFY PRECOAT TEE
FN, XN	HERBORNER PUMP
RDE	AQUIFY ECCENTRIC REDUCER
RDC	AQUIFY CONCENTRIC REDUCER
VBFL	TANK DRAIN VALVE
VFD	AQUIFY VFD
UV	AQUIFY UV SYSTEM
FIC-RF	AQUIFY INTERLOCK CONTROLLER



**3 FILTER SCHEMATIC**



**4 PUMP ANCHORAGE**



**5 COMPRESSOR ANCHORAGE**

**SOUTH WHIDBEY PARKS  
 AQUATIC CENTER**  
 PID 812720 MAXWELTON RD  
 LANGLEY, WA 98260



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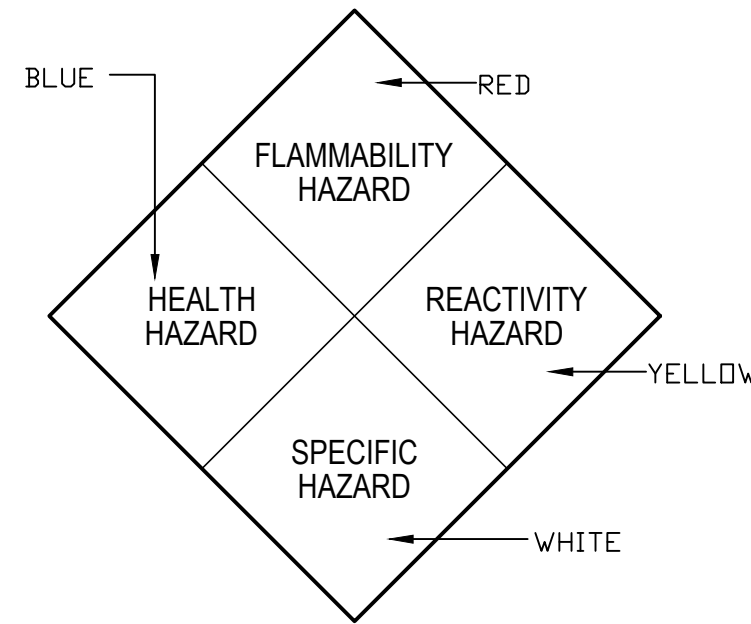


CHEMICAL CLASSIFICATION TABLE										
COMMON NAME	CHEMICAL NAME	% COMP.	CAS #	FORM	QUANT. STORED (NOT USED)	QUANT. IN USE (USE-CLOSED)	MAXIMUM ALLOWABLE QUANTITY	LOCATION (STORAGE & USE)	HAZ. CLASSES	JUSTIFICATION
SODIUM BISULFATE	SODIUM BISULFATE	93%	7681-38	TABLET	45 lbs.	45 lbs.	ND LIMIT	CHEM. ROOM	IRRITANT	MSDS
CARBON DIOXIDE	CARBON DIOXIDE	100%	124-39-9	LIQUID	0 lbs.	600 lbs.	686 lbs.	CHEM. ROOM	CRYOGENIC	MSDS

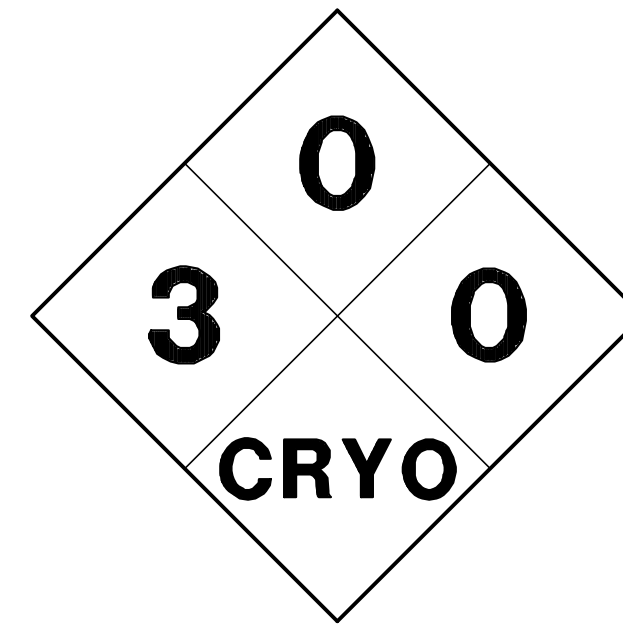
QUANTITIES OF CHEMICALS DO NOT EXCEED THE QUANTITIES LISTED IN CBC TABLES 307.1 (1) AND 307.1 (2). FOR CARBON DIOXIDE GAS SEE TABLE 1.12.8(b) OF THE NFPA. 6,000 FT<sup>3</sup> ALLOWABLE OR 686 lbs. STORAGE PER CONTAINED AREA. PROVIDE HARD WIRED CO<sub>2</sub> DETECTOR ANALOG SENSOR TECHNOLOGY MODEL #AP1 KIT SENSOR AND STROBE UNITS 120V HARD WIRED W/ STROBE LIGHT AND AUDIBLE ALARM. SENSOR MOUNTED 18 INCHES A.F.F. AND ALARM LEVEL BETWEEN 70-76 INCHES AND WITHIN VISIBLE EYESIGHT OF DOOR. TO BE SET TO DETECT CO<sub>2</sub> GAS IN LEVELS IN EXCESS OF THE PEL. PROVIDE IN EACH ROOM CONTAINING CO<sub>2</sub>.

RATING EXPLANATION GUIDE					
RATING	HEALTH HAZARD	FLAMMABILITY HAZARD	REACTIVITY HAZARD	SPECIFIC HAZARD	
4	CAN BE LETHAL	EXTREMELY FLAMMABLE. IGNITES AT BELOW 73° F.	MAY EXPLODE AT NORMAL TEMPERATURES AND PRESSURES	OXIDIZER:	OX
3	CAN CAUSE SERIOUS OR PERMANENT INJURY	IGNITES AT ABOVE 73° F. BELOW 100° F.	MAY EXPLODE AT HIGH TEMPERATURES OR SHOCK	CORROSIVE:	CDR
2	CAN CAUSE TEMPORARY INCAPACITATION OR RESIDUAL INJURY	IGNITES AT ABOVE 100° F. BELOW 200° F.	VIOLENT CHEMICAL CHANGE AT HIGH TEMPERATURES OR PRESSURES	ALKALI:	ALK
1	CAN CAUSE SIGNIFICANT IRRITATION	IGNITES AT ABOVE 200° F.	NORMALLY STABLE. HIGH TEMPERATURES MAKE UNSTABLE	USE NO WATER:	W-
0	NO HAZARD	WILL NOT BURN	STABLE	RADIATION HAZARDS:	▲
				POLYMERIZES:	P

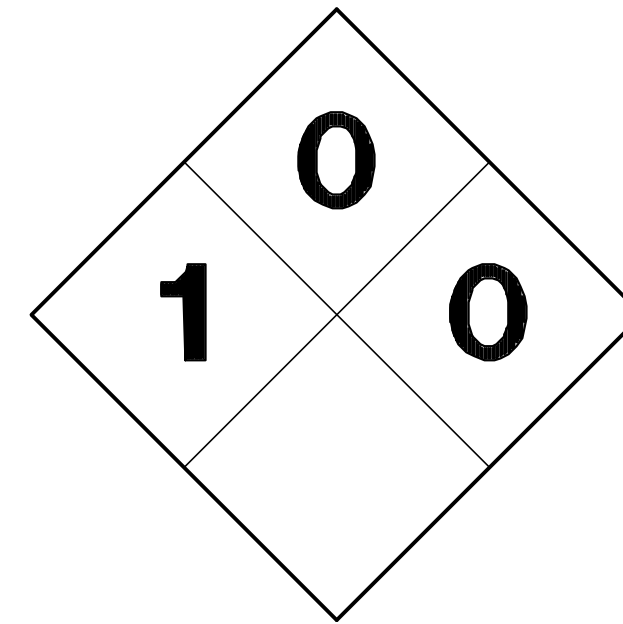
- NOTES:
- CONFIRM SIGNAGE WITH LOCAL FIRE MARSHALL AND/OR BUILDING CODES PRIOR TO INSTALLATION. SIGNS SHALL CONFORM TO NFPA 704.
  - SIGNS SHALL BE SIZES AND COLORS PER CODE MOUNTED AT +60" A.F.F. ON DOORS AT CHEMICAL ROOMS.



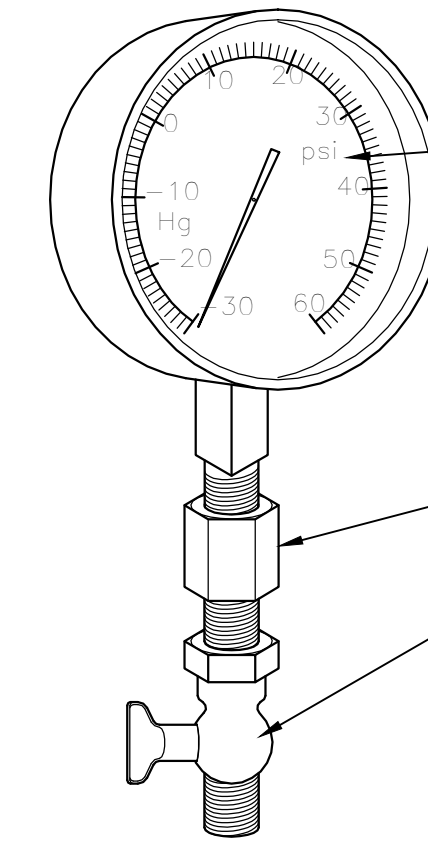
LEGEND



CARBON DIOXIDE



SODIUM BISULFATE

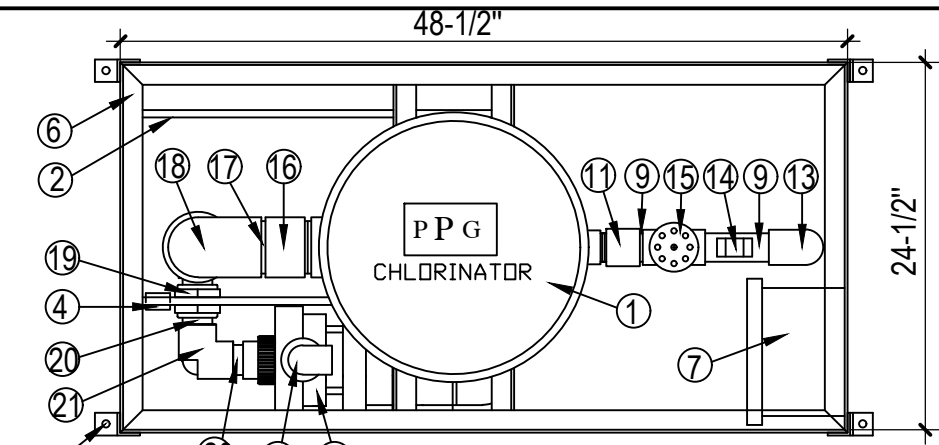


4-1/2" S/S CASED LIQUID FILLED PRESSURE GAUGES SHALL HAVE A DIAL RANGE PRESSURE OF 60psi AND VACUUM RANGE OF 30" Hg THE MINOR GRADUATIONS SHALL HAVE A PRESSURE OF 2psi AND VACUUM OF 2" Hg. 1/4" NPT PER SPECIFICATIONS.

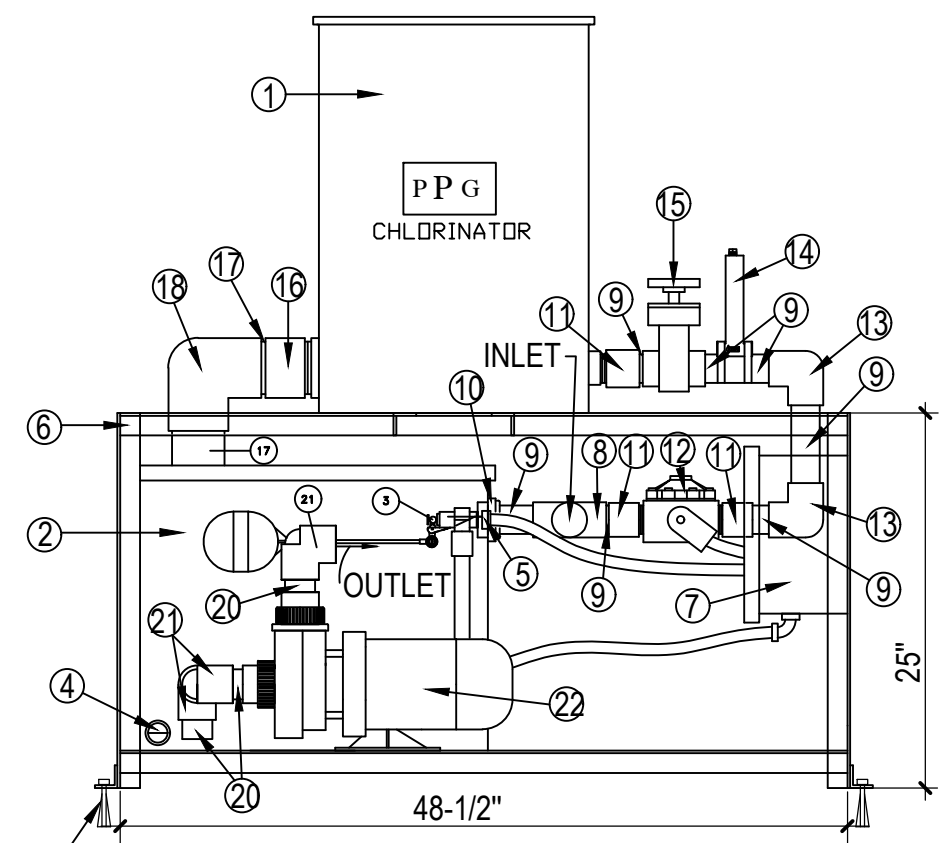
SNUBBER  
PETCOCK MODEL #A10, BRASS

- NOTES:
- PRESSURE GAUGES SHALL BE INSTALLED BY MEANS OF DRILLING AND TAPPING PIPE TO BE MONITORED. THE GAUGE SHALL THEN BE THREADED INTO THE PIPE. PROVIDE WITH SNUBBER AND PET COCK.
  - GAUGE MAY BE USED WHEREVER CRUCIAL VACUUM OR PRESSURE READINGS ARE ESSENTIAL.

1 HAZARDOUS INFORMATION SIGNAGE NO SCALE



1/2" SS HILTI KB-TZ WITH 3-1/4" MIN. EMBED (INSTALL PER ESR ICC ESR-1917) FOUR (4) TOTAL.

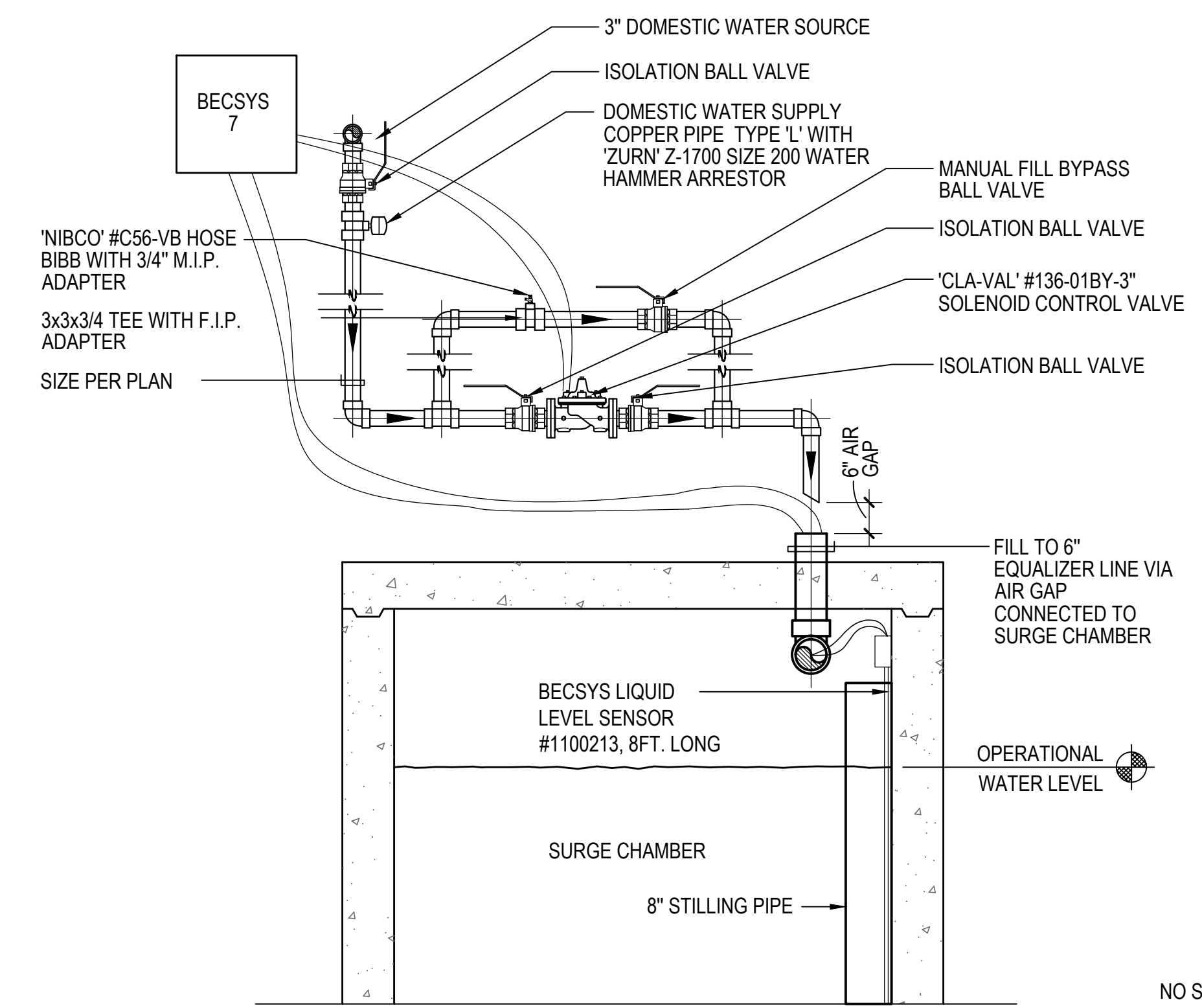


SYSTEM ELEVATION  
FOUR (4) 1/2" x 3-1/4" MIN. EMBED. STAINLESS STEEL HILTI KB-TZ EXPANSION ANCHORS (ICC ESR-4266)

BILL OF MATERIAL 3140AT		
ITEM	QUAN.	DESCRIPTION
1	1	3150 CHLORINATOR
2	1	22 GALLON PVC SOLUTION TANK
3	1	1 1/2" FLOAT VALVE ASSEMBLY
4	1	TANK DRAIN PLUG
5	1	HIGH WATER SHUT-OFF SWITCH
6	1	24 1/2"x48 1/2"x25" ALUMINUM STAND W/ ANCHOR ANGLES
7	1	ELECTRICAL CONTROL PANEL, WIRE & CONDUIT
CHLORINATOR INFLUENT PIPING		
8	1	1 1/2" SLIP X SLIP SCH. 40 PVC TEE
9	AR	1 1/2" SCH. 40 PVC PIPE
10	1	1 1/2" PVC BULKHEAD FITTING
11	3	1 1/2" SLIP X MPT SCH. 40 PVC MALE ADAPTOR
12	1	1 1/2" SOLENOID VALVE
13	2	1 1/2" SLIP X SLIP SCH. 40 PVC 90° ELBOW
14	1	1 1/2" FLOWMETER
15	1	1 1/2" GATE VALVE

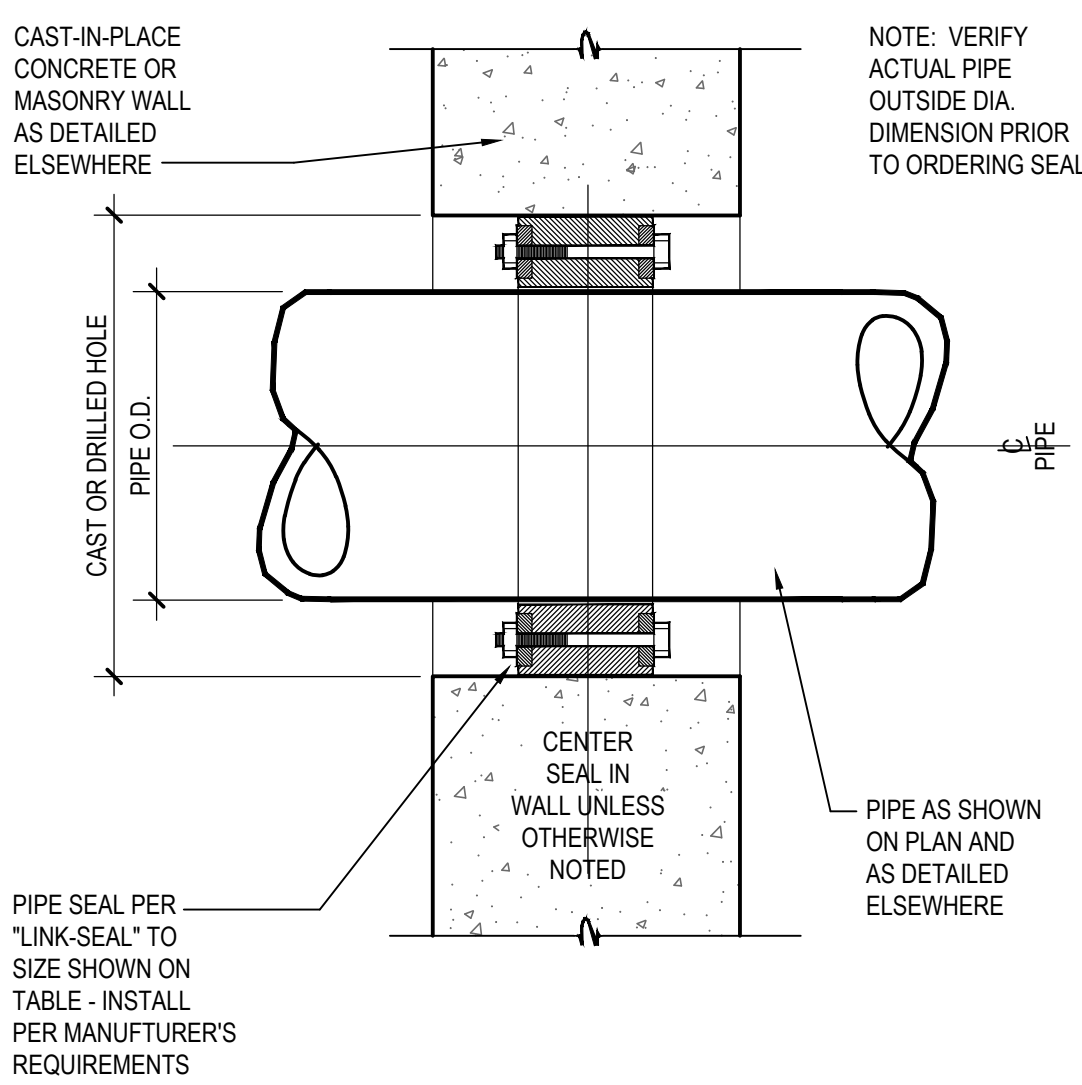
CHLORINATOR EFFLUENT PIPING		
16	1	3" SLIP X MPT SCH. 40 PVC MALE ADAPTOR
17	AR	3" SCH. 40 PVC PIPE
18	1	3" SLIP X SLIP SCH. 40 PVC 90° ELBOW
BOOSTER PUMP PIPING		
19	1	1 1/2" PVC BULKHEAD FITTING
20	AR	1 1/2" SCH. 40 PVC PIPE
21	3	1 1/2" SLIP X SLIP SCH. 40 PVC 90° ELBOW
22	1	STA-RITE DURA-JET 1 1/2 H.P. BOOSTER PUMP

2 PRESSURE/VACUUM GAUGE NO SCALE



4 AUTOMATIC/MANUAL WATER MAKE-UP SCHEMATIC NO SCALE

3 PPG ACCU-TAB CHLORINATION UNIT NO SCALE



PIPE SIZE (INCH)	PIPE O.D.	INSIDE DIA. (IN)	LINK SEAL NO.	NO. OF LINKS PER SEAL
1/2"	0.840	2.0	LS-200	4
3/4"	1.050	2.5	LS-275	5
1"	1.315	3.0	LS-300	4
1-1/4"	1.660	3.0	LS-275	7
1-1/2"	1.900	3.5	LS-300	5
2"	2.375	4.0	LS-300	6
2-1/2"	2.875	4.0	LS-300	9
3"	3.50	5.0	LS-300	8
3-1/2"	4.00	6.0	LS-325	5
4"	4.50	6.0	LS-300	10
5"	5.563	6.0	LS-425	6
6"	6.625	10.0	LS-475	10
8"	8.625	12.0	LS-475	12
10"	10.75	14.0	LS-400	10
12"	12.75	16.0	LS-400	12
14"	14.00	18.0	LS-325	15
16"	16.00	18.0	LS-325	17
18"	18.00	23.0	LS-500	16
20"	20.00	25.0	LS-500	18
22"	22.00	27.0	LS-500	19
24"	24.00	29.0	LS-500	21
26"	26.00	31.0	LS-500	23
28"	28.00	33.0	LS-500	24
30"	30.00	35.0	LS-500	26
32"	32.00	37.0	LS-500	28
34"	34.00	39.0	LS-500	29
36"	36.00	41.0	LS-500	30

5 PIPE SEAL TO WALL / FLOOR NO SCALE

6 ELECTRICAL PANEL SCHEDULES NO SCALE



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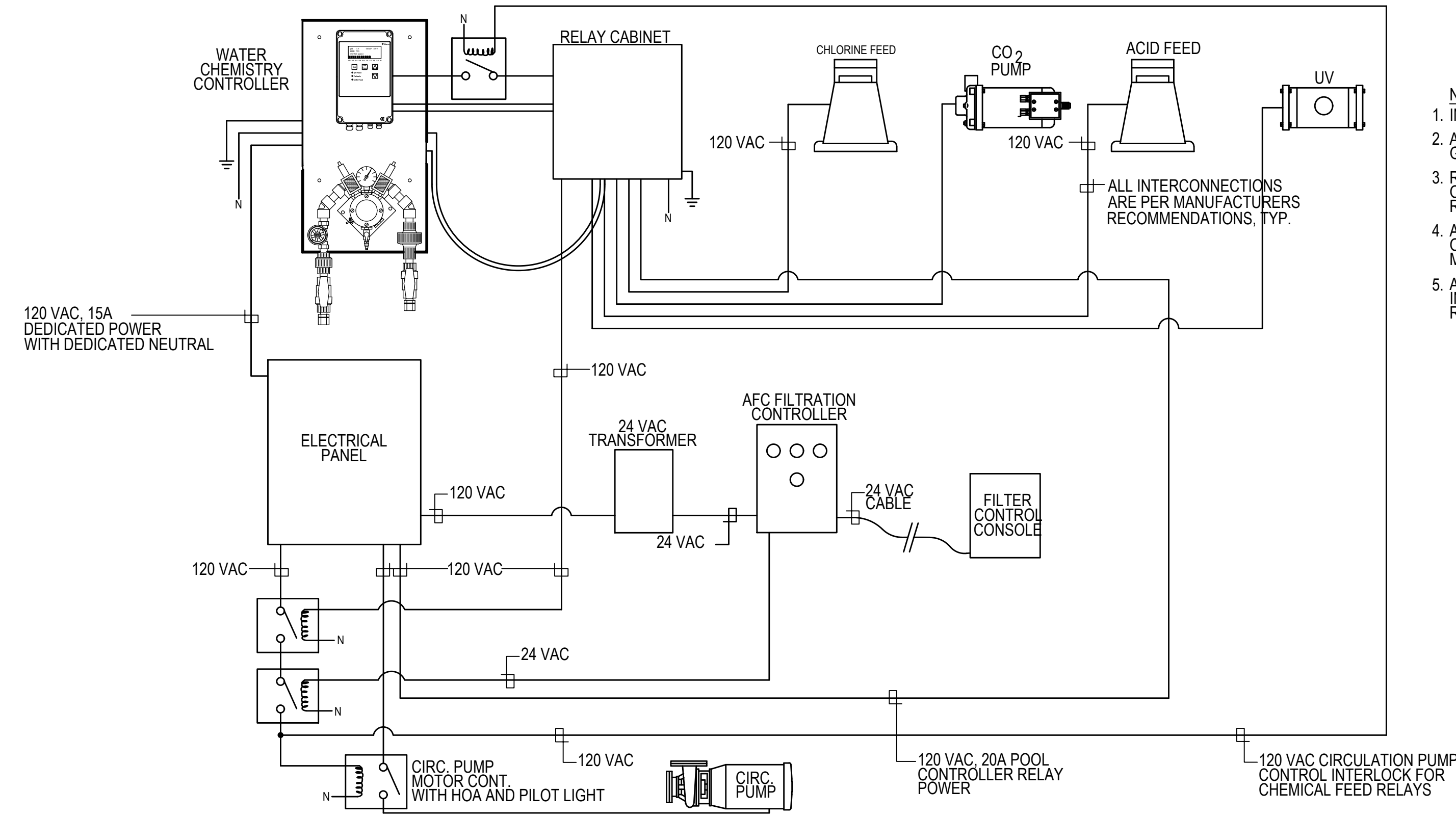
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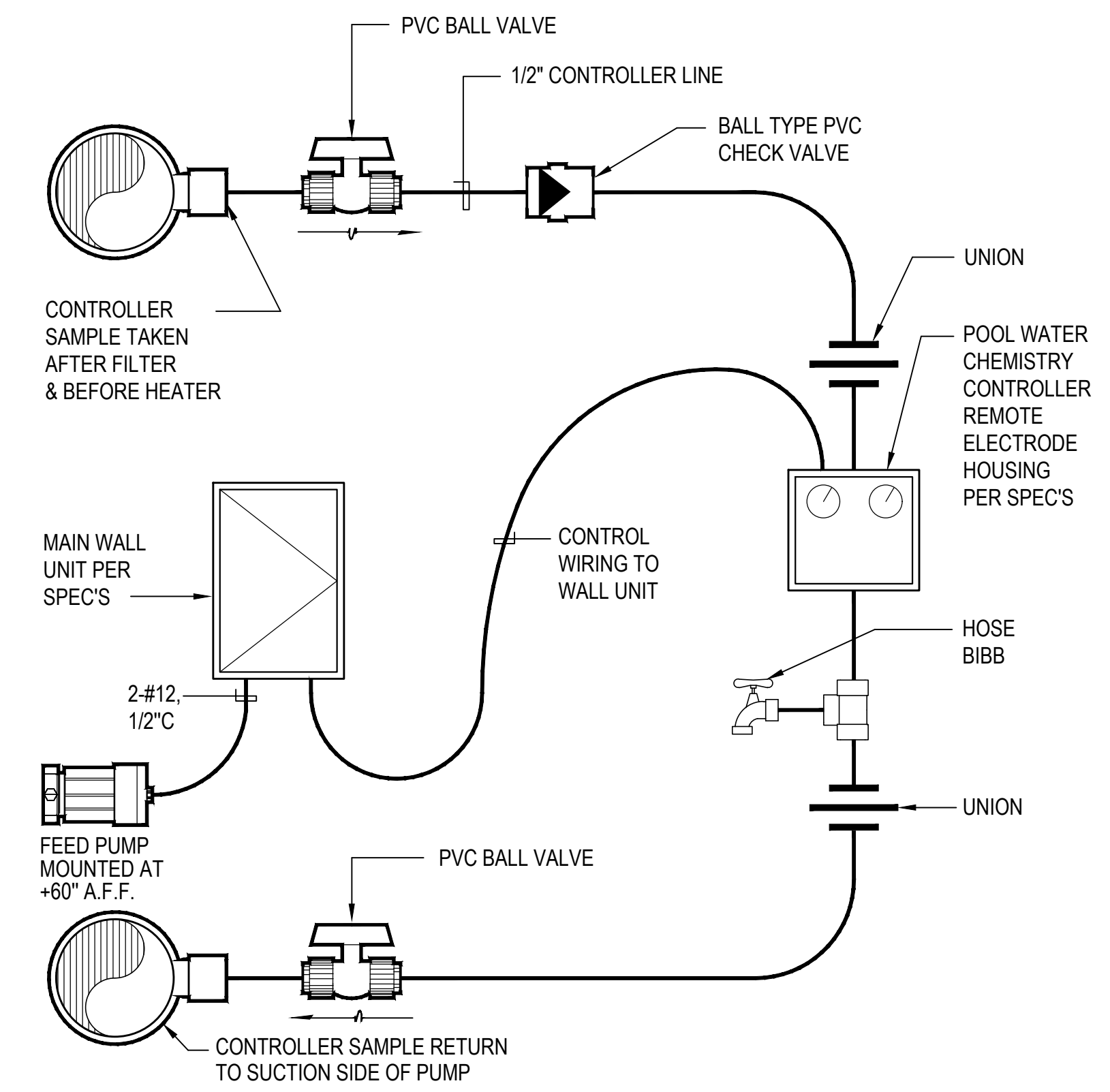
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PROJECT NO: 2022021000

SHEET:  
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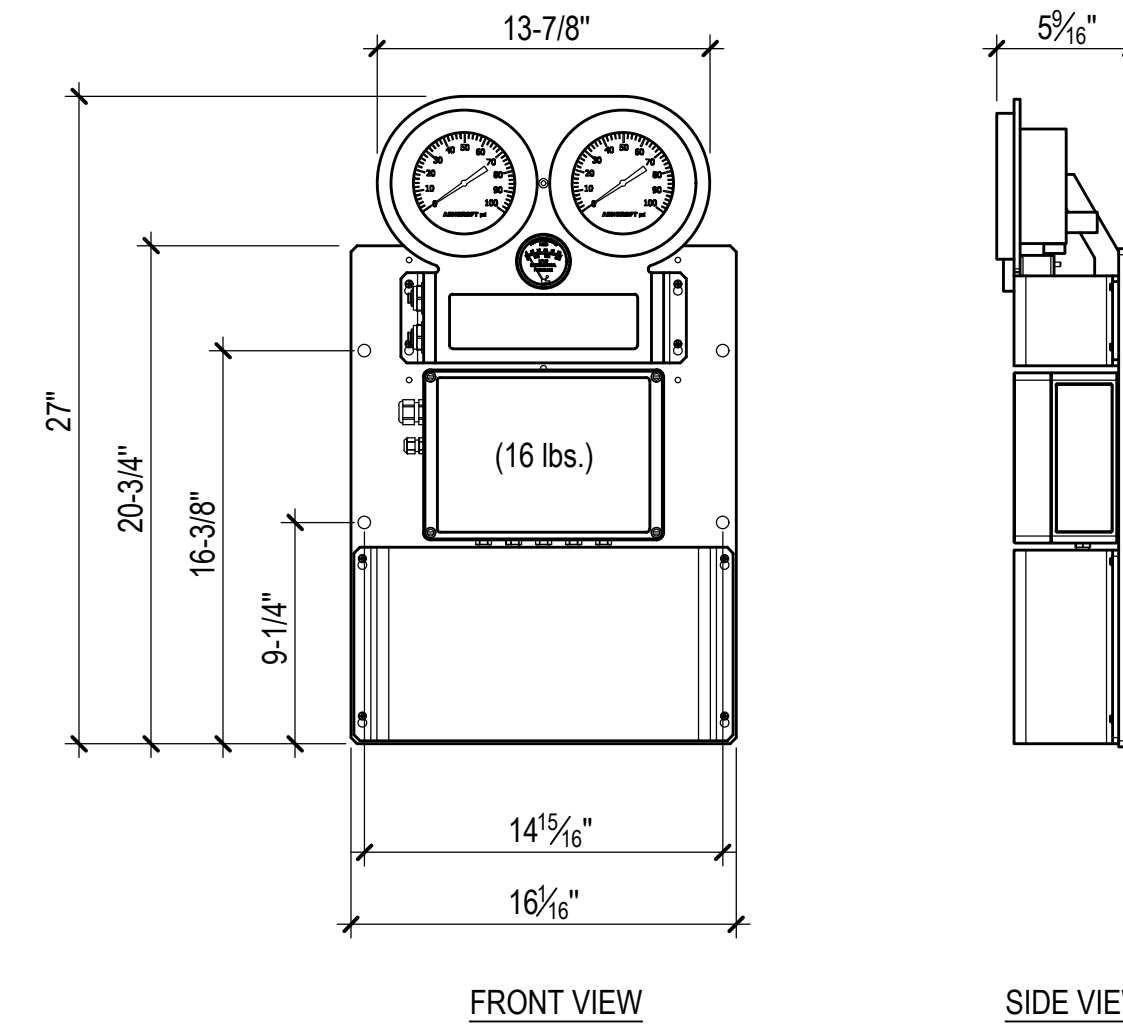
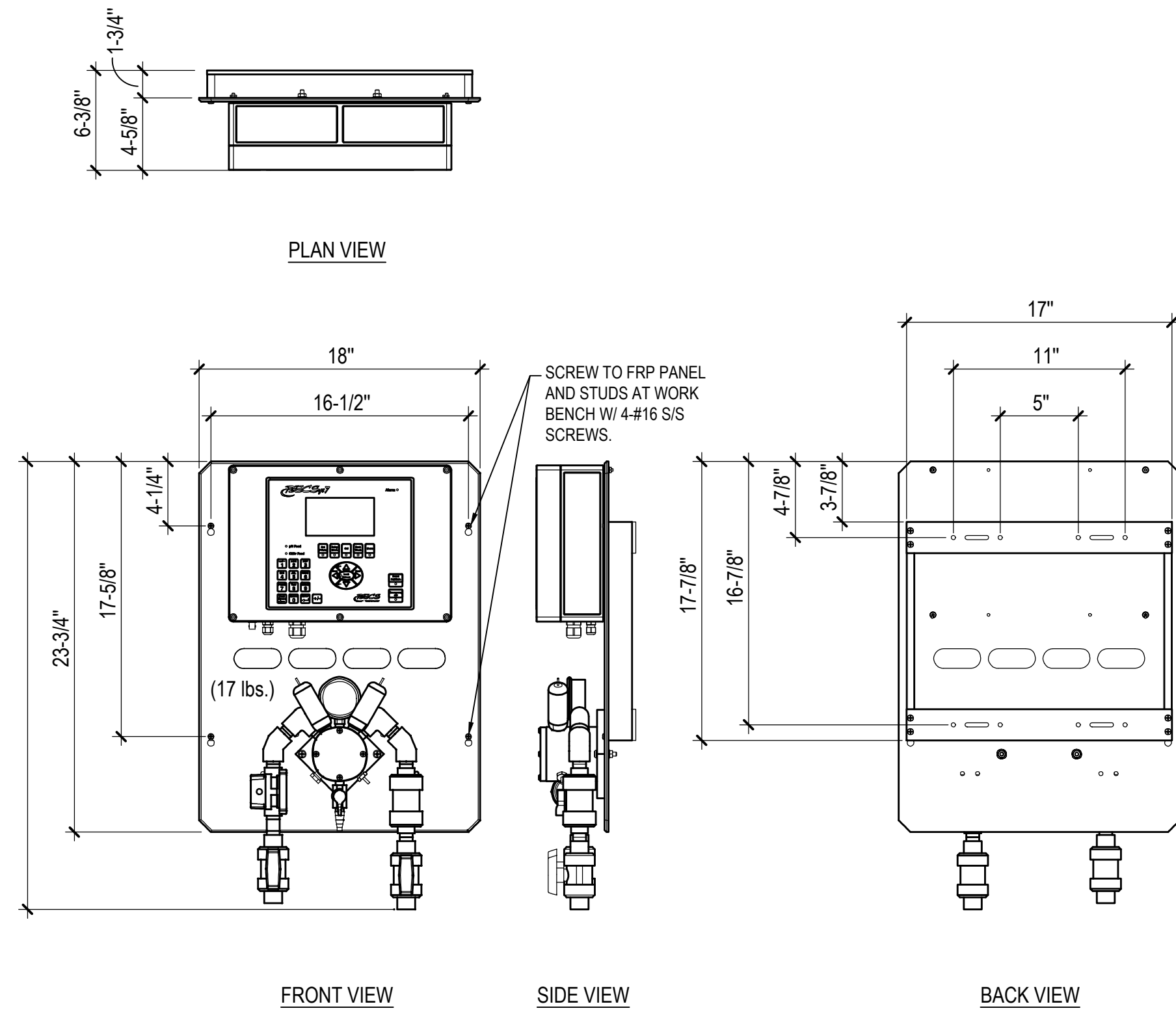


- NOTES:
1. INSTALL 1 #12 GROUND CONDUCTOR IN ALL CONDUITS
  2. ALL CONDUITS SHALL BE RIGID OR INTERMEDIATE GALVANIZED METAL.
  3. REFER TO FILTER OWNER'S MANUAL FOR INSTALLATION/OPERATING INSTRUCTIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR A FULLY OPERATIONAL SYSTEM.
  4. ALL WORK SHALL BE IN ACCORDANCE WITH LATEST EDITION OF THE NATIONAL ELECTRIC CODE (N.E.C.) FURNISH ALL LABOR, MATERIALS AND COORDINATION OF WORK HERE ON SHOWN/IMPLIED.
  5. ALL INTERCONNECTIONS AND CONTROL WIRING PER MANUFACTURERS INSTALLATION INSTRUCTIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR A FULLY OPERATIONAL SYSTEM.



1 POOL MECHANICAL ELECTRICAL INTERCONNECTION DIAGRAM NO SCALE

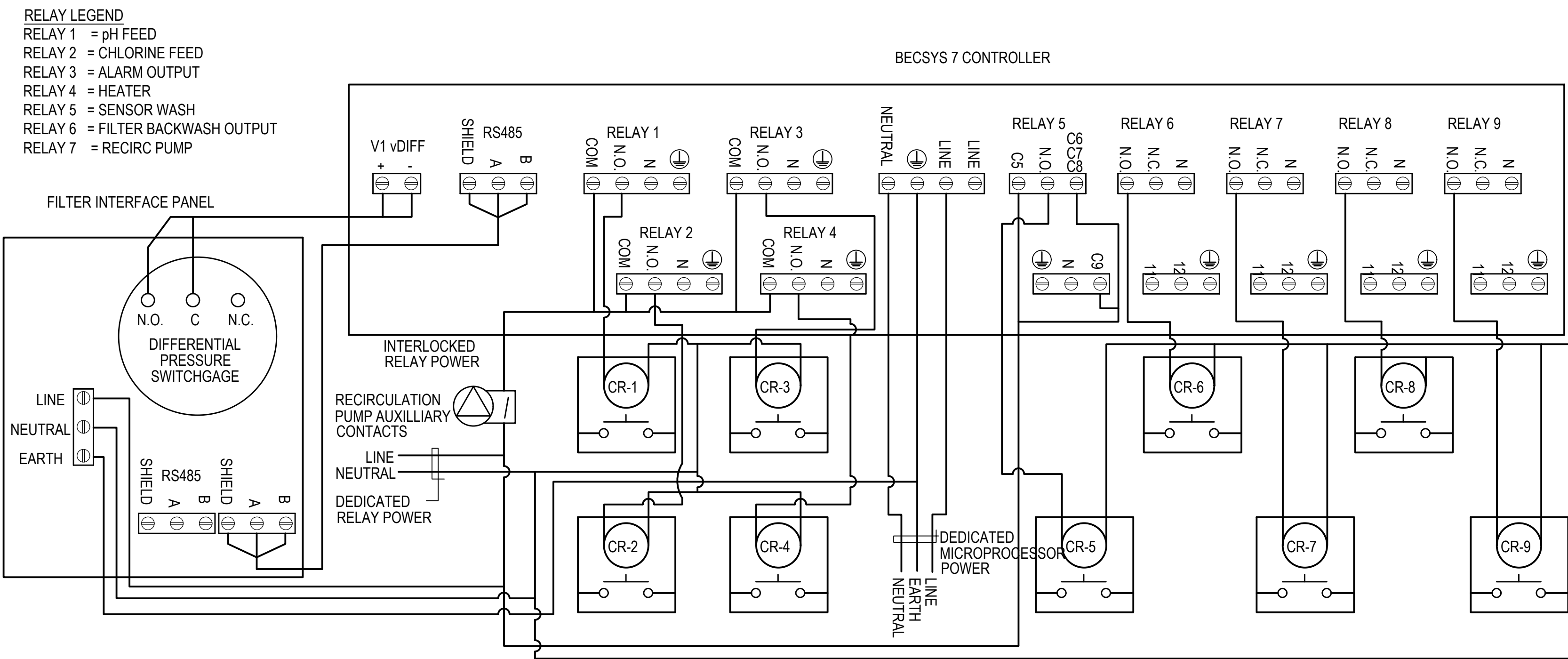
2 WATER CHEMISTRY CONTROLLER SCHEMATIC NO SCALE



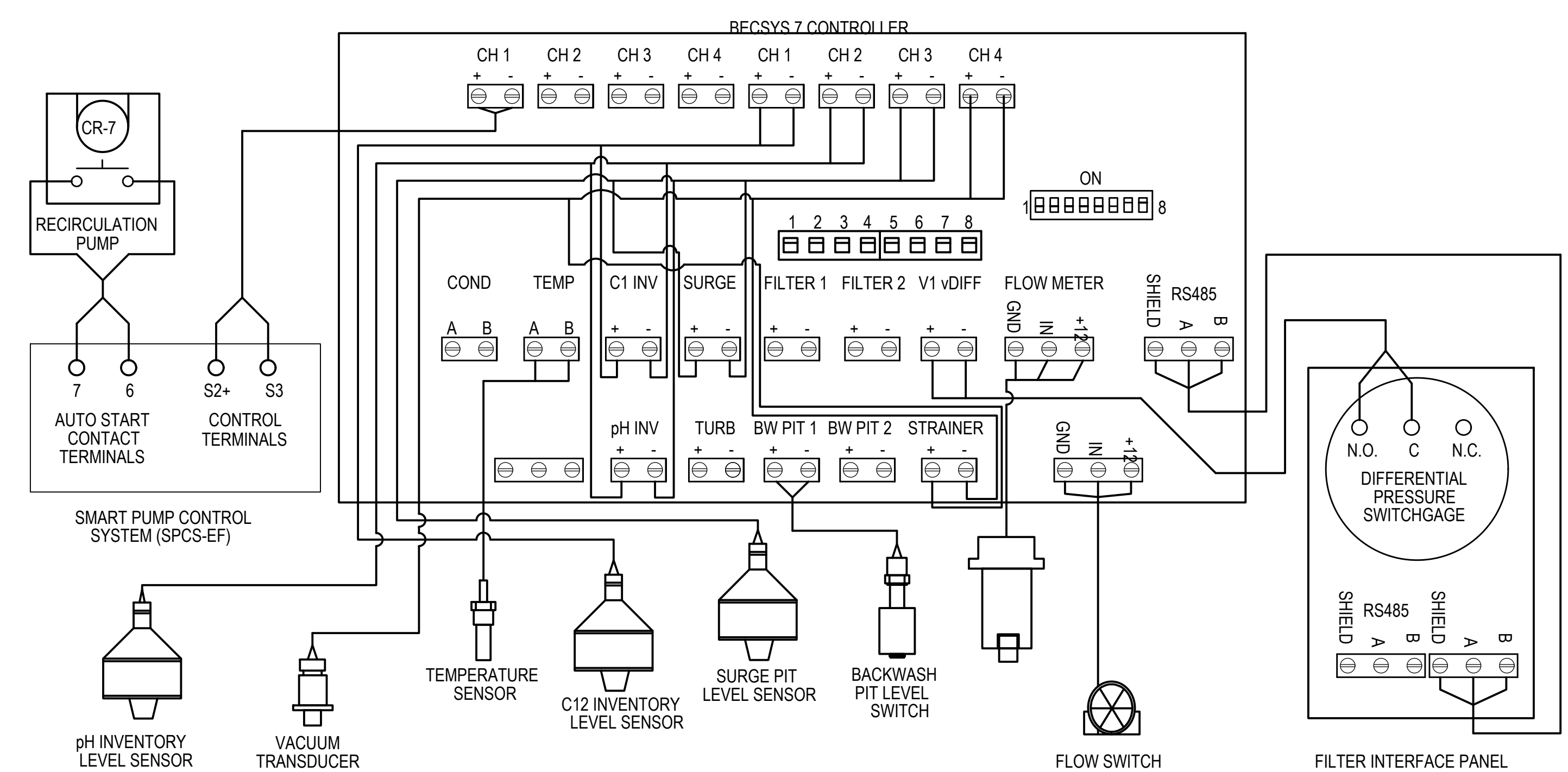
3 BECSYS 7 WATER CHEMISTRY CONTROLLER 1-1/2"=1'-0"

4 BECSYS FILTER INTERFACE SYSTEM 1-1/2"=1'-0"

5 NOT USED



6 BECSYS 7 CONTROLLER NO SCALE



7 BECSYS 7 CONTROLLER NO SCALE



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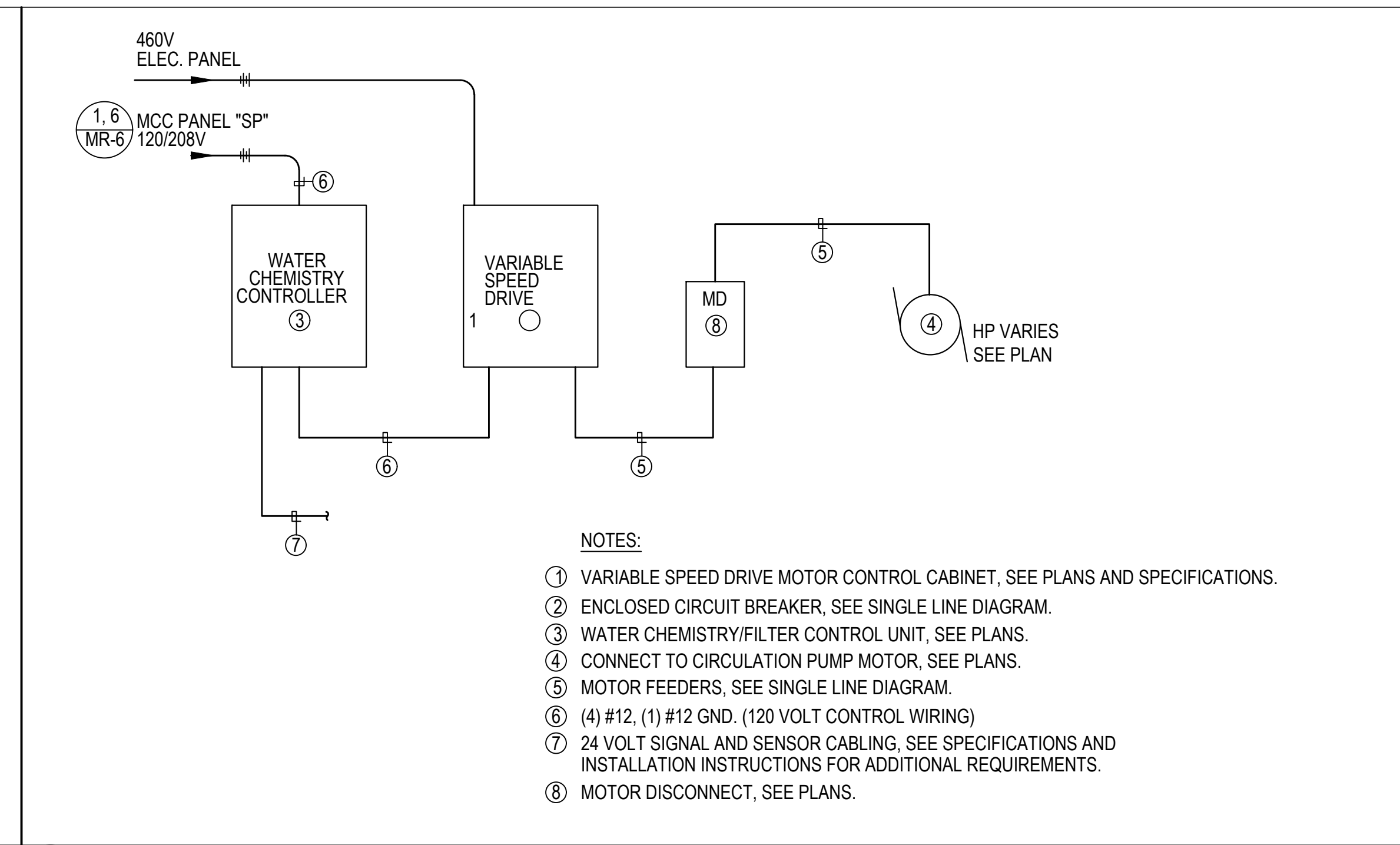
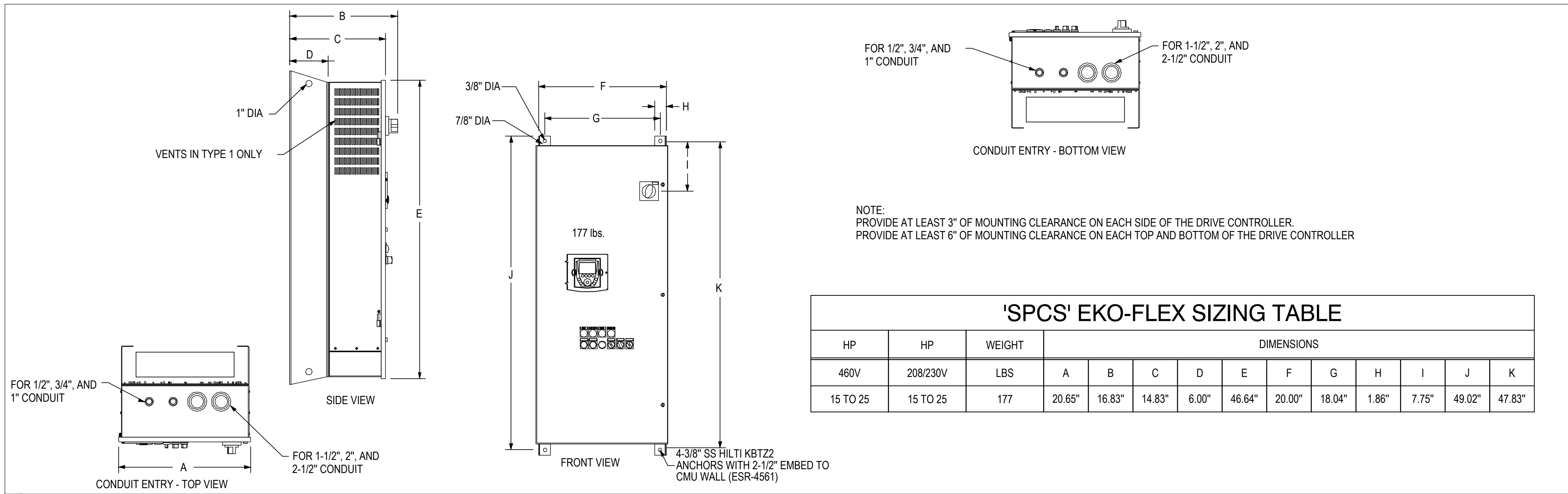
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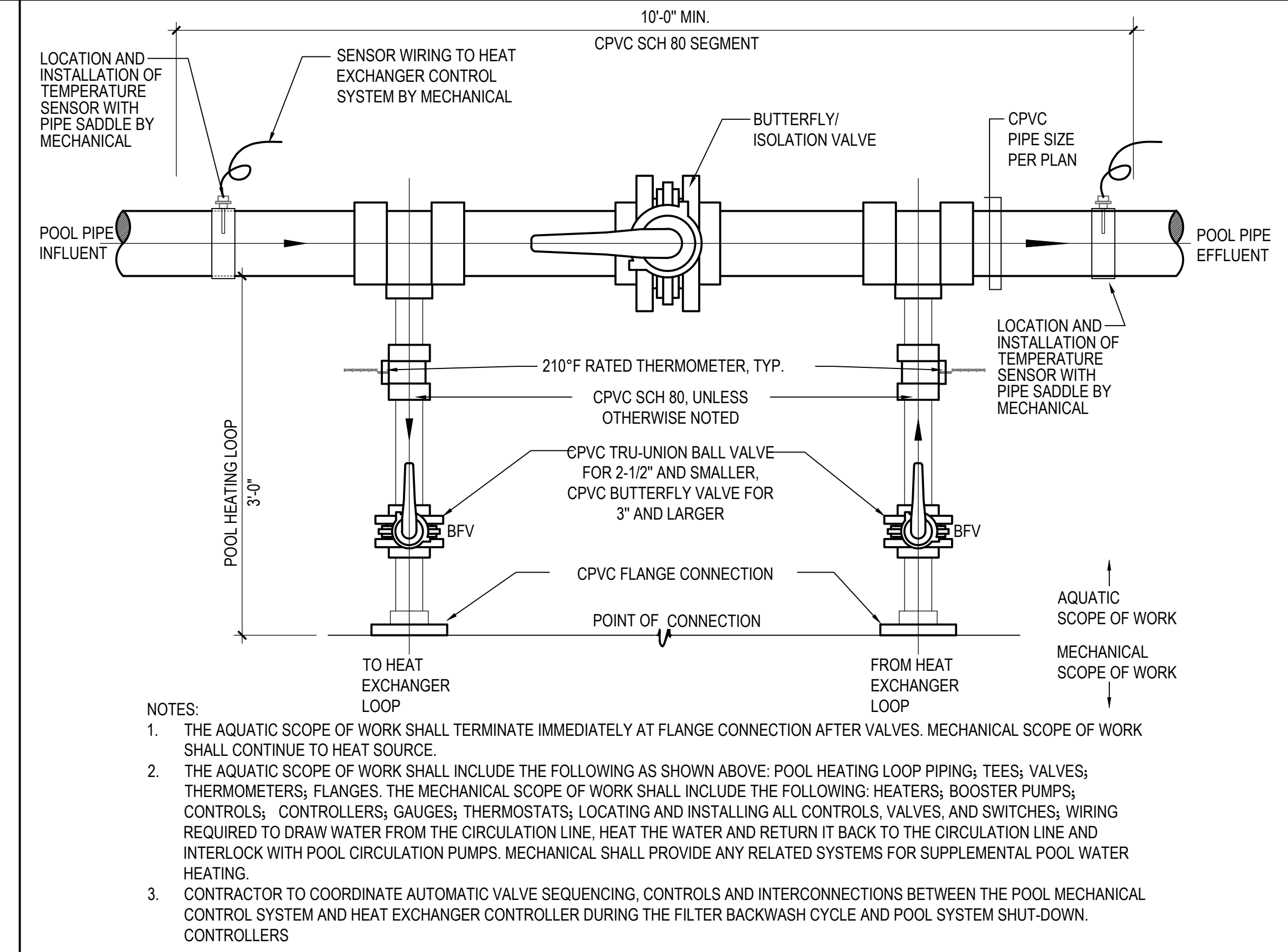
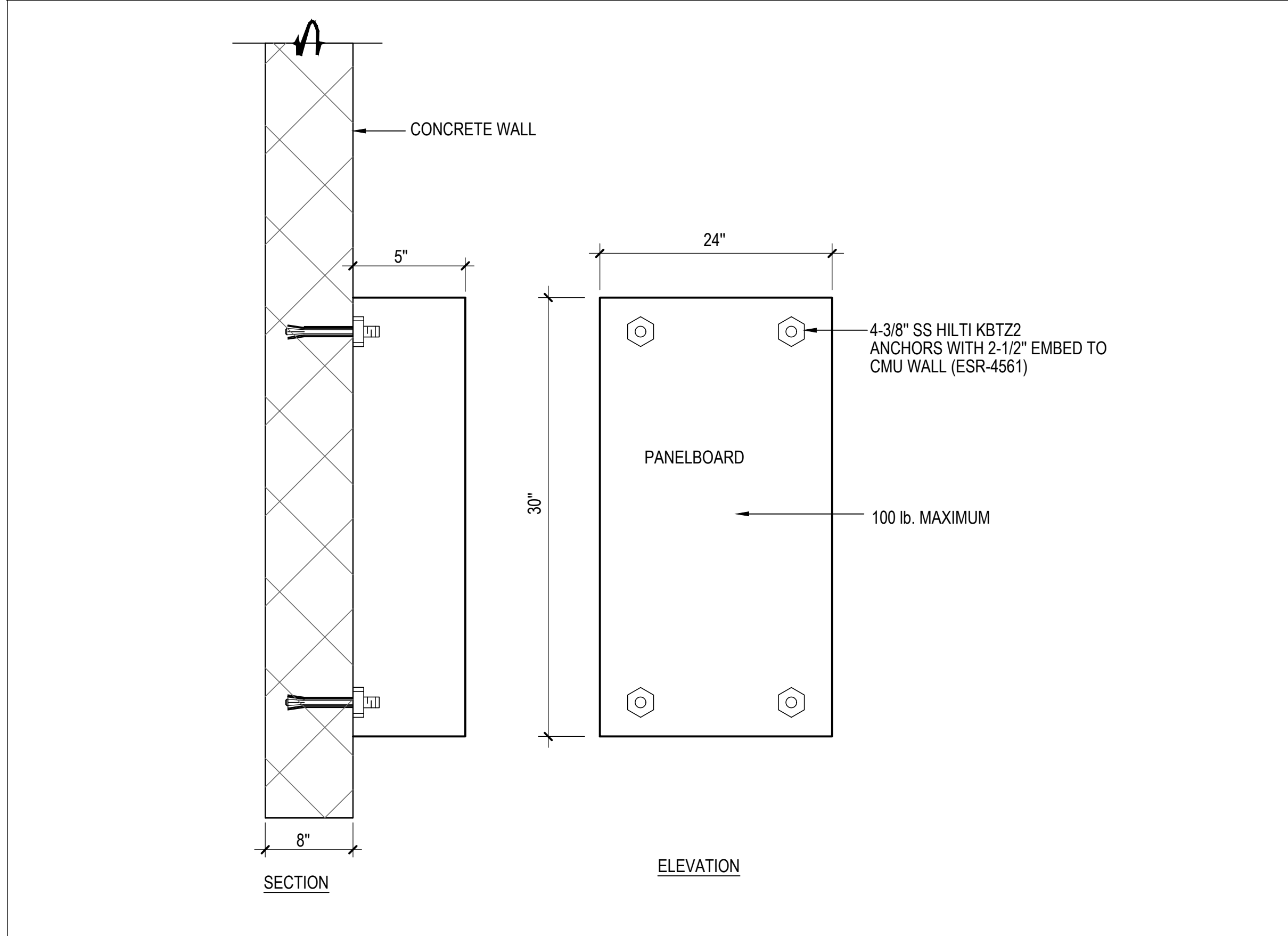
SHEET:  
MR.5





**1 'SPCS' EKO-FLEX ENCLOSURE DIMENSIONS** NO SCALE

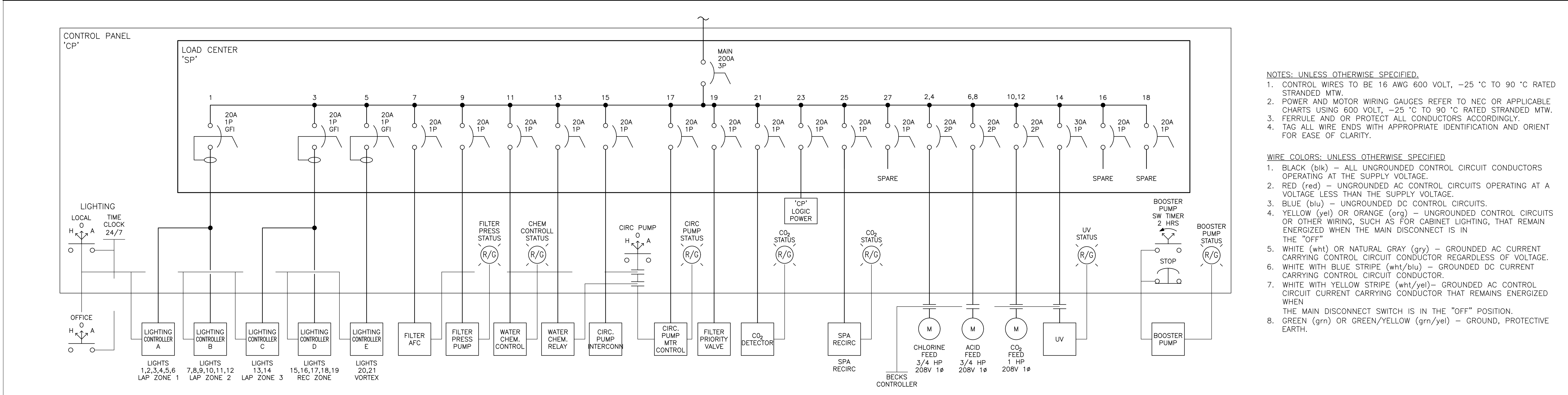
**2 TYPICAL WIRING SCHEMATIC AT SPCS UNIT** NO SCALE



**3 PANELBOARD MOUNTING DETAIL** NO SCALE

**4 NOT USED**

**5 HEAT EXCHANGER LOOP CONNECTION** NO SCALE



**6 MOTOR AND LIGHTING CONTROL CENTER LINE DIAGRAM** NO SCALE



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**SOUTH WHIDBEY PARKS  
 AQUATIC CENTER**  
 PID 812720 MAXWELTON RD  
 LANGLEY, WA 98260



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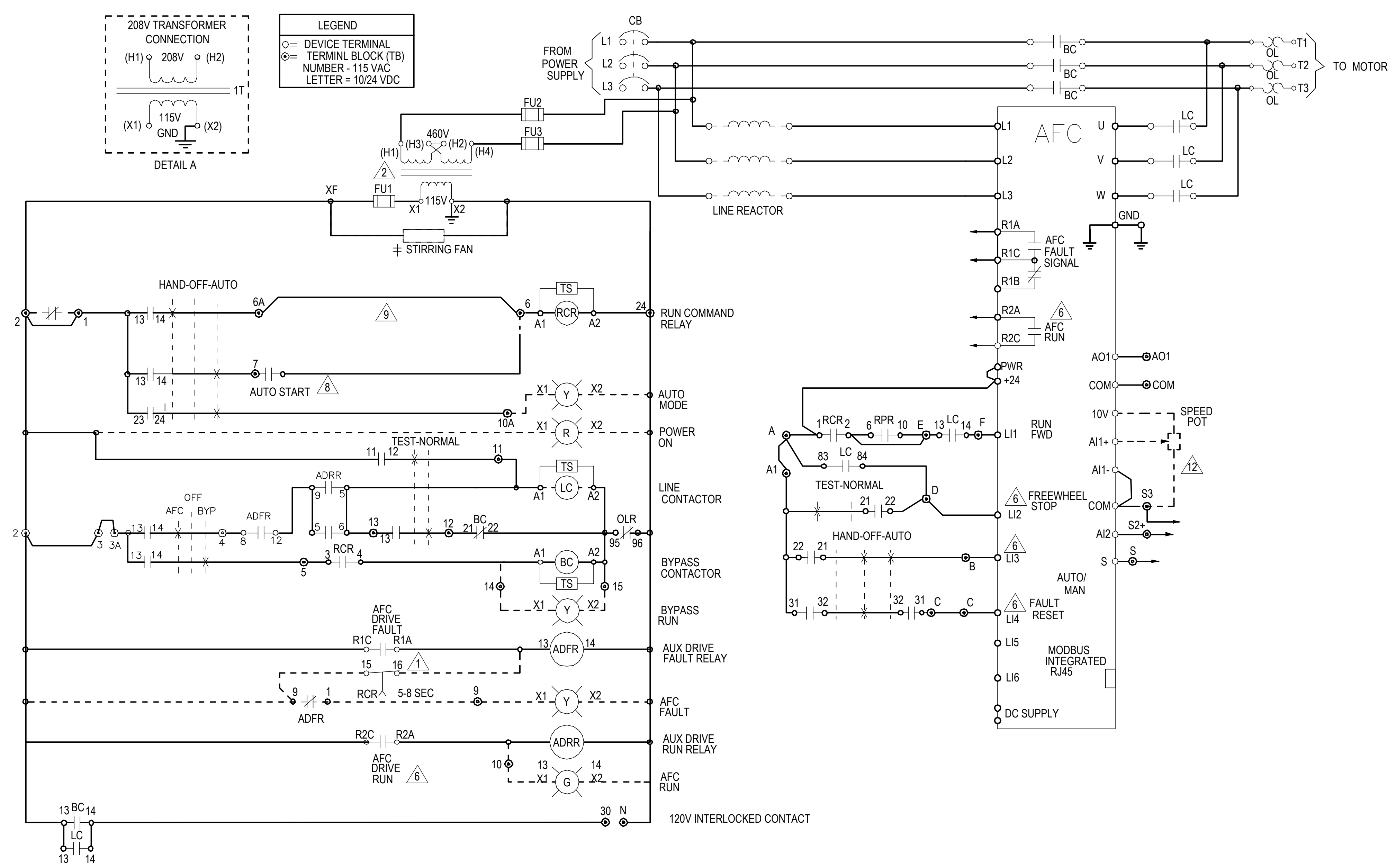
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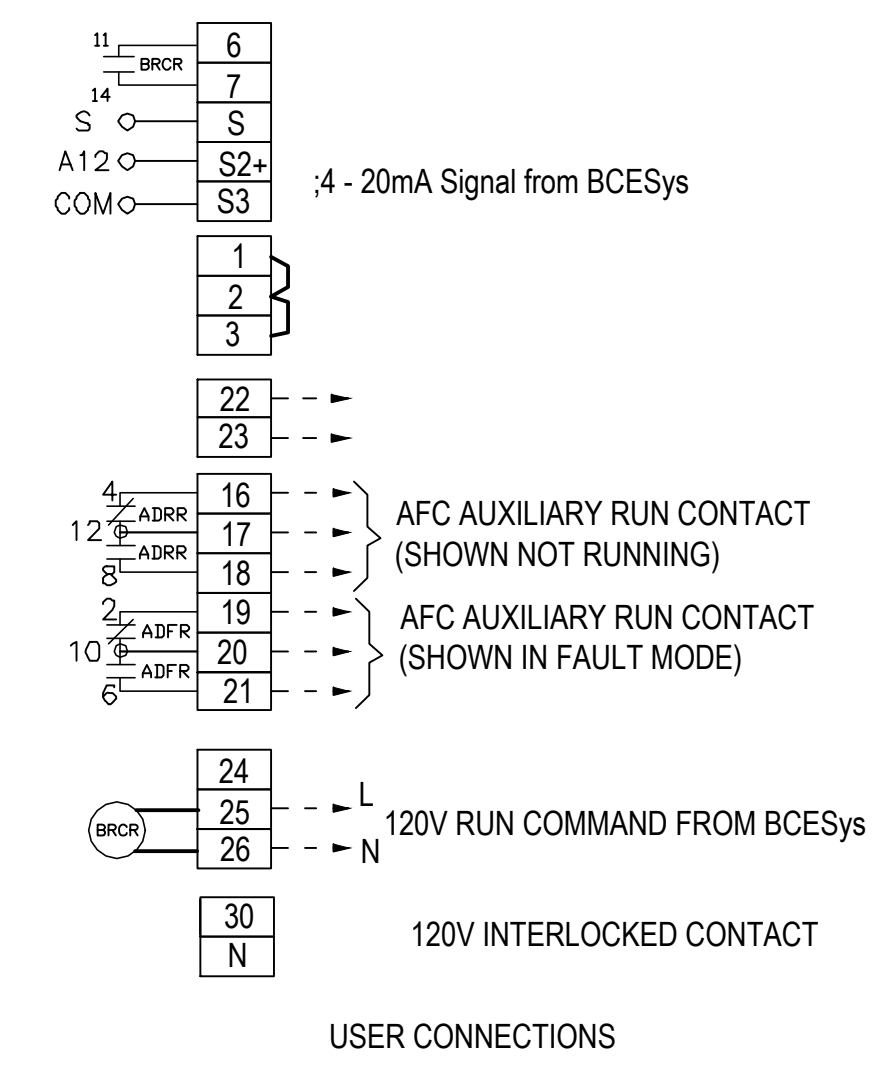
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**MR.7**



EKO-FLEX ATV61 FACTORY CONFIGURATION					
MENU	No	SUB-MENU	DESCRIPTION	CODE	ADJ.
SIM	1.1	----	2/3 WIRE CONTROL	iCC	r2C
SIM	1.1	----	PUMPS FANS	CFG	PrF
SIM	1.1	----	STANDARD MOT. FREQ (HZ)	bFr	60
SIM	1.1	----	ACCELERATION (SEC)	ACC	10
SIM	1.1	----	DECELERATION (SEC)	dEC	10
SIM	1.1	----	LOW SPEED (HZ)	LSP	3
SIM	1.3	----	SWITCHING FREQ (HZ)	SCr	8
I-O	1.5	----	2 WIRE TYPE	iCl	LLEL
I-O	1.5	A12 CONFIG.	A12 MIN. VALUE (mA)	Ch2	4
I-O	1.5	R2 CONFIG.	R2 ASSIGN - DRIVE RUNNING	r2C	rUn
CIL	1.6	----	REF. 1 CHAN	FR1	HMI
CIL	1.6	----	REF. 1B CHAN	FR1b	A11
CIL	1.6	----	PROFILE	CHCF	SEP
FUn	1.7	STOP CONFIG.	FREEWHEEL STOP ASSIGN	rSt	L12
FUn	1.7	REFERENCE SWITCH	REF. 1B SWITCHING	rCb	L13
FUn	1.7	REFERENCE SWITCH	REF. 1B CHAN	FR1b	A12
FLt	1.8	FAULT RESET	FAULT RESET	rSF	L14
FLt	1.8	CATCH ON THE FLY	CATCH ON THE FLY	FLR	YES
FLt	1.8	OUTPUT PHASE LOSS	OUTPHASE LOSS	PDL	NO
COM	1.9	FORCED LOCAL	FORCED LOCAL ASSIGN.	FLI	L14

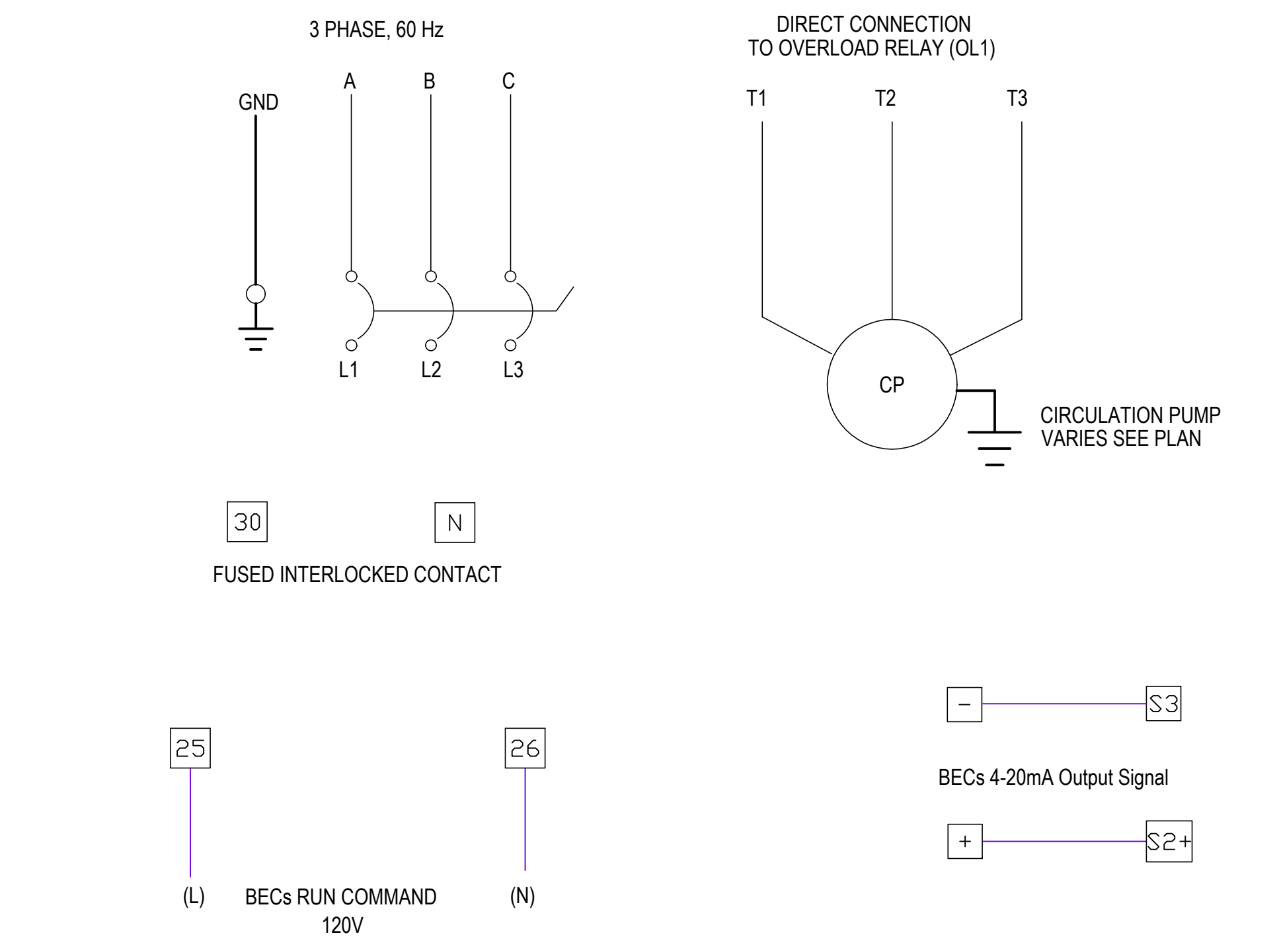
  

DESCRIPTION	TYPE 1	TYPE 12K	TYPE 3R
⊕ STIRRING FANS	10-100 HP 460V, 7.5-50HP 208/230V	10-100 HP 460V, 7.5-50HP 208/230V	NA
⊕ VENTILATION FAN	NA	NA	ALL HP
⊕ SPACE HEATER	NA	NA	ALL HP



- NOTES:
- 1 RCR TIMED CONTACT USED ONLY IF LINE CONTACTOR IS SUPPLIED
  - 2 CONTROL TRANSFORMER SHOWN FOR 460V PRIMARY. FOR 230V PRIMARY, JUMPER H2-H3 IS
  - 6 PROGRAMMED I/O SEE CONTROLLER FUNCTION CONFIGURATION TABLE.
  - 8 BECS RUN COMMAND RELAY (BRCR)
  - 9 JUMPER USED WHEN START-STOP PUSH BUTTONS NOT USED.

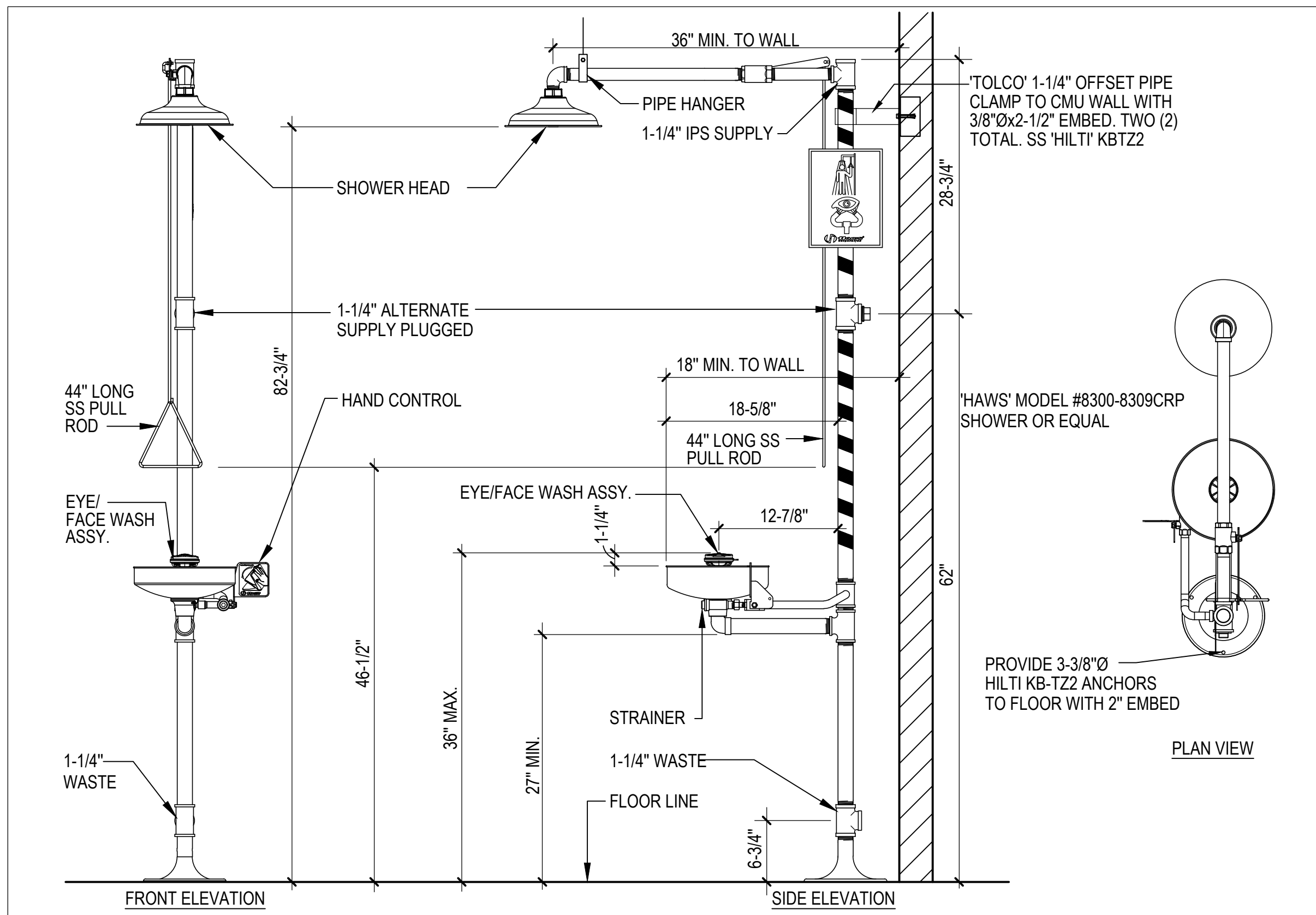
**2 'SPCS' EKO-FLEX SINGLE LINE DIAGRAM** NO SCALE



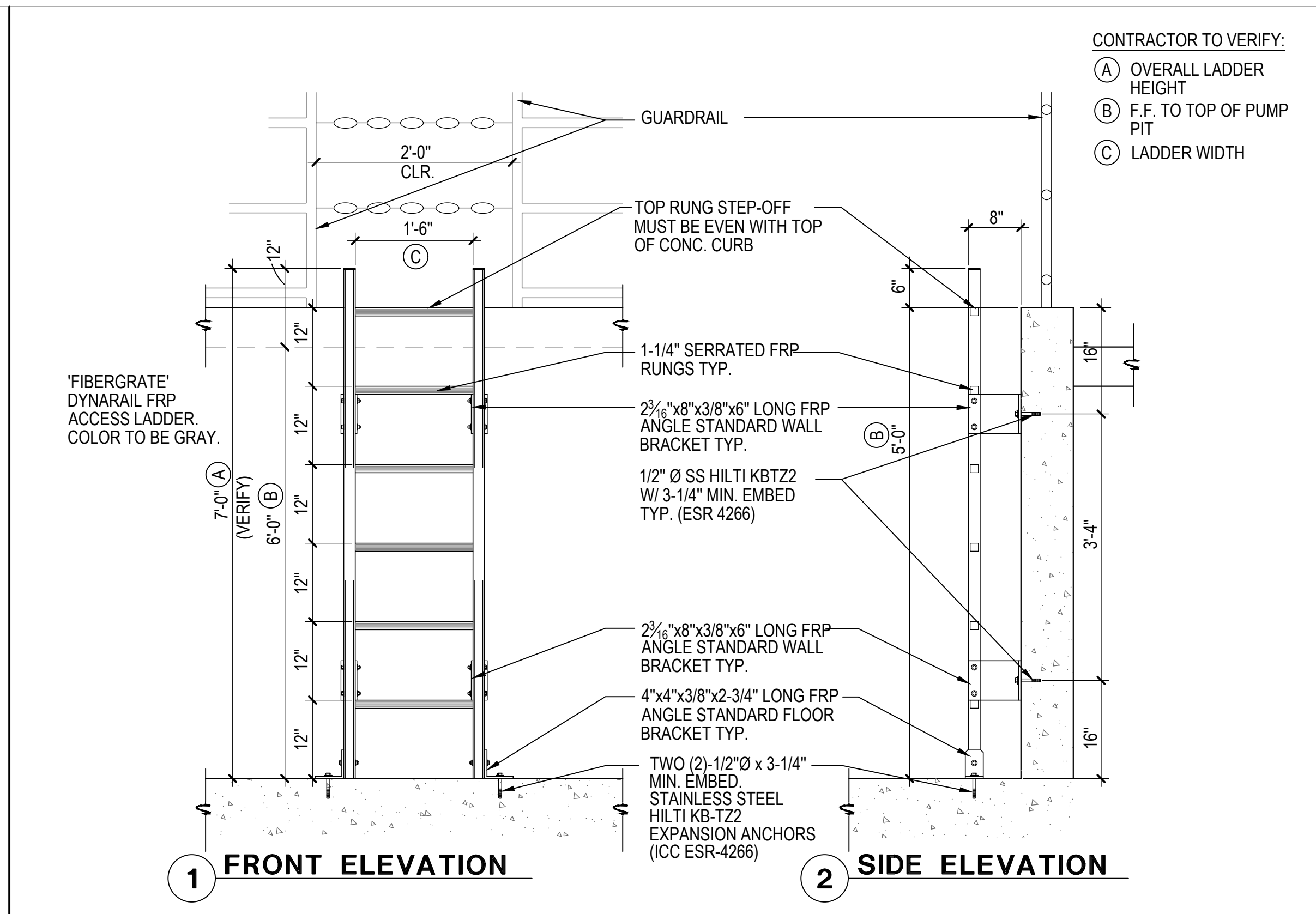
**3 'SPCS' EKO-FLEX FIELD CONNECTION DIAGRAM** NO SCALE

**1 'SPCS' EKO-FLEX VARIABLE FREQUENCY DRIVE SYSTEM SCHEMATIC** NO SCALE

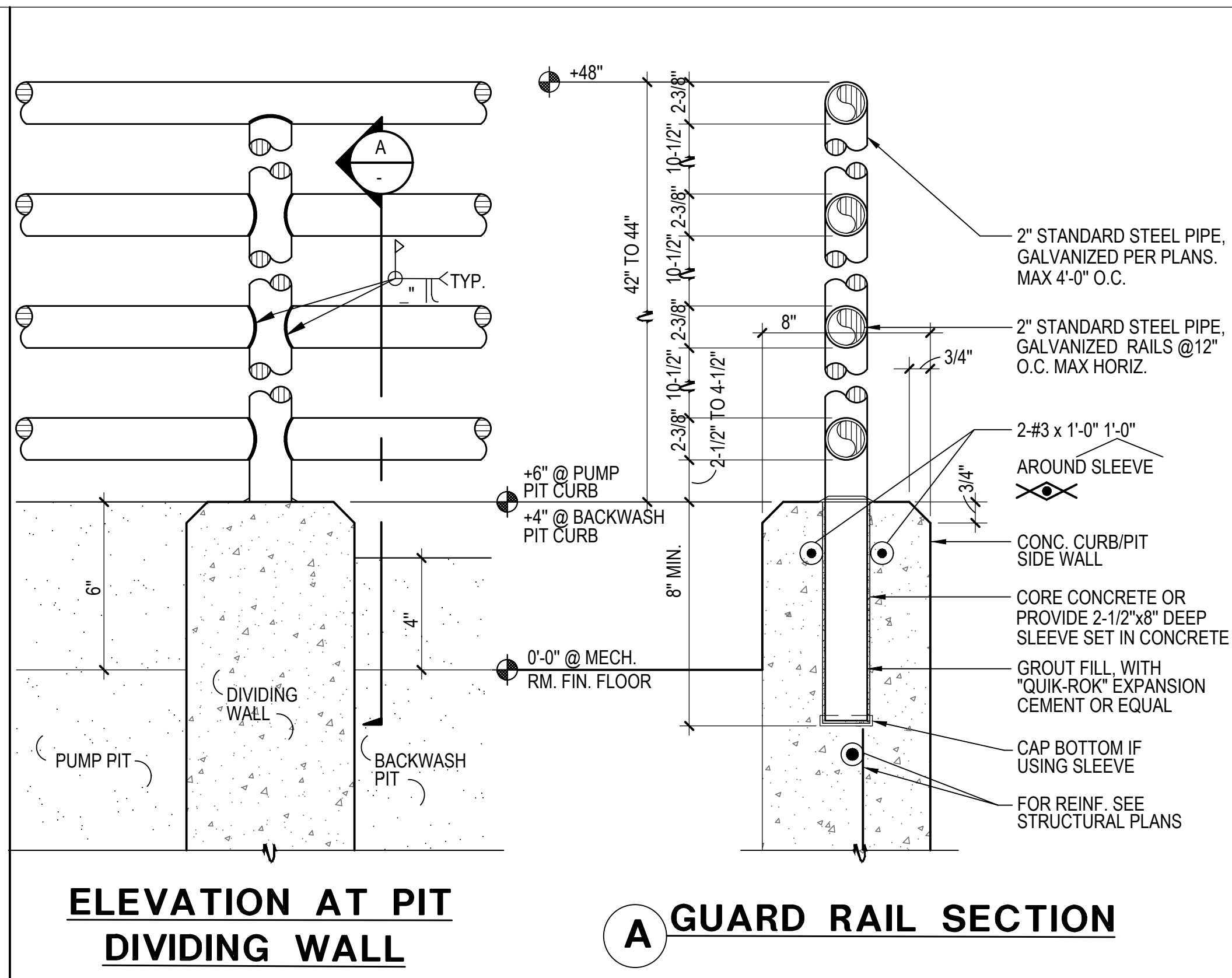




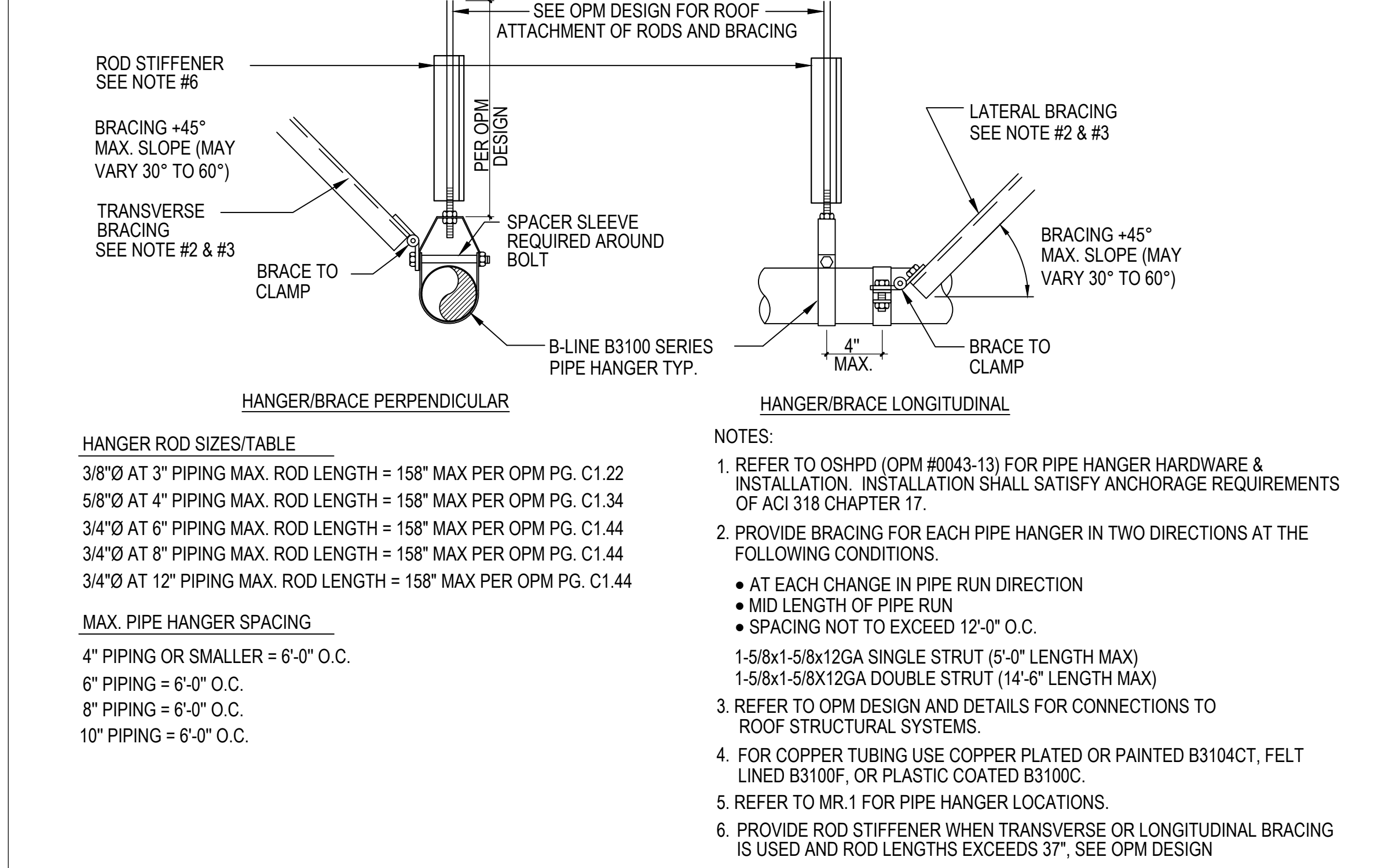
1 TYPICAL EYEWASH/SHOWER DETAIL NO SCALE



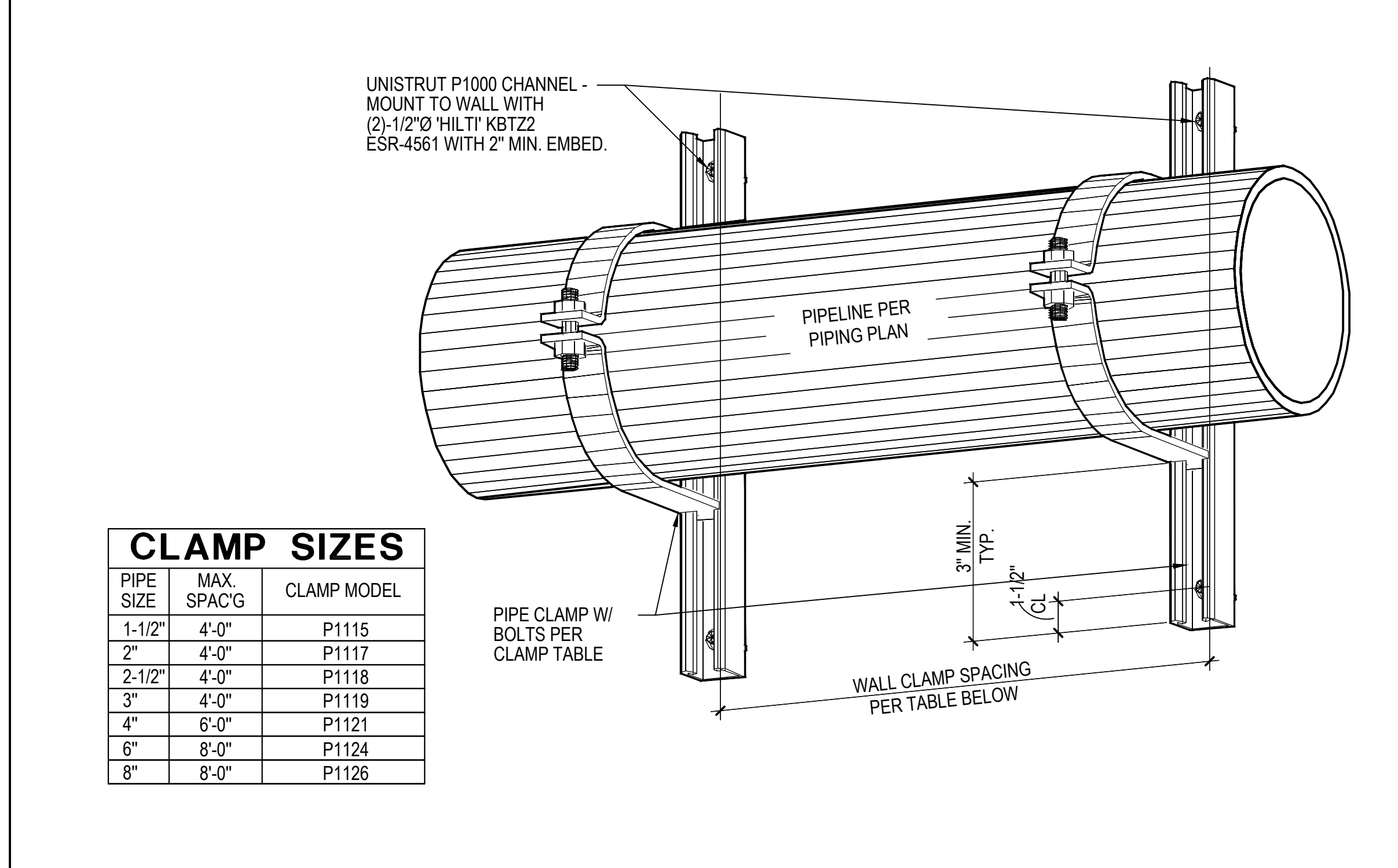
2 PUMP PIT ACCESS LADDER 3/4"=1'-0"



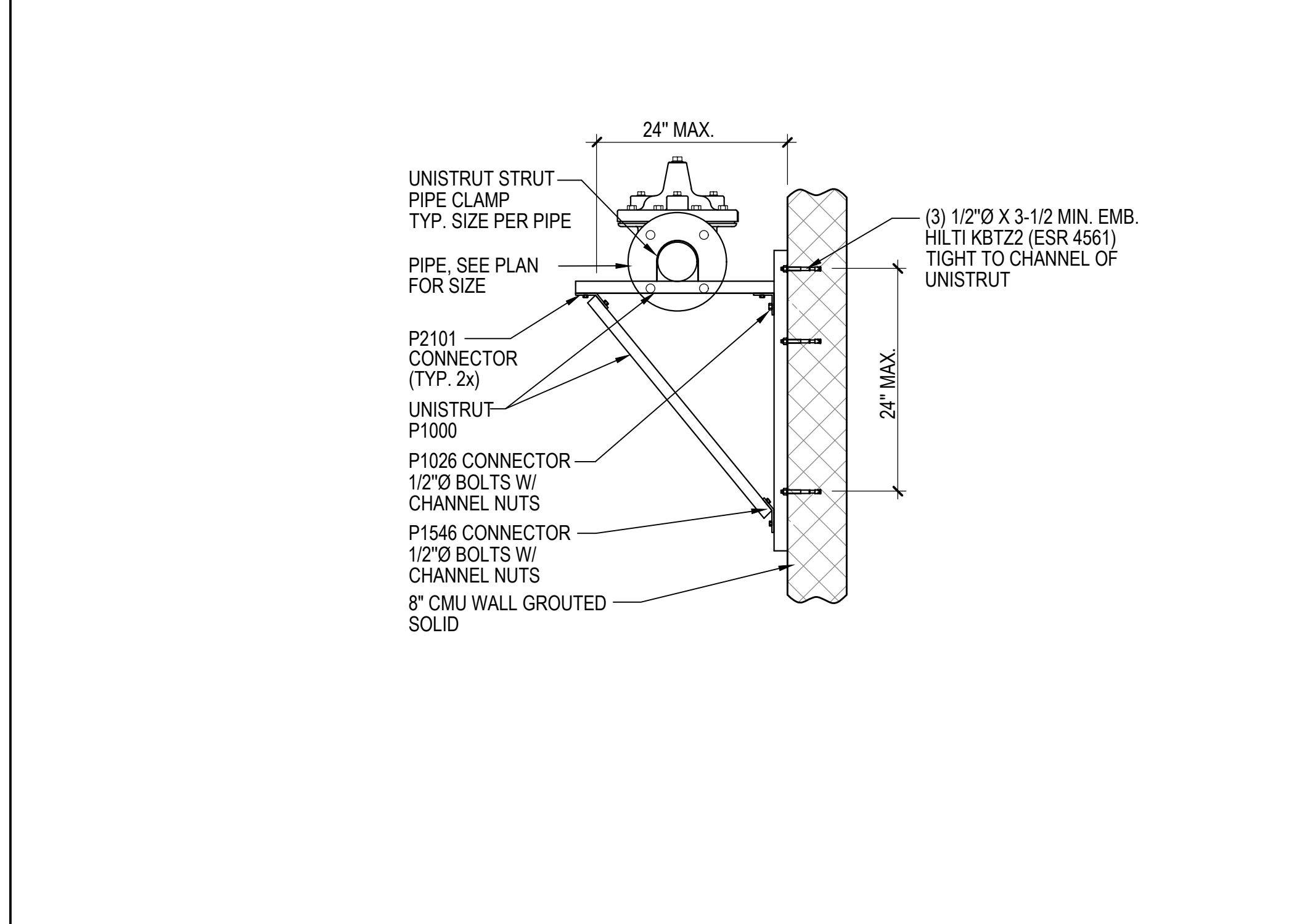
3 PIT GUARD RAIL 3"=1'-0"



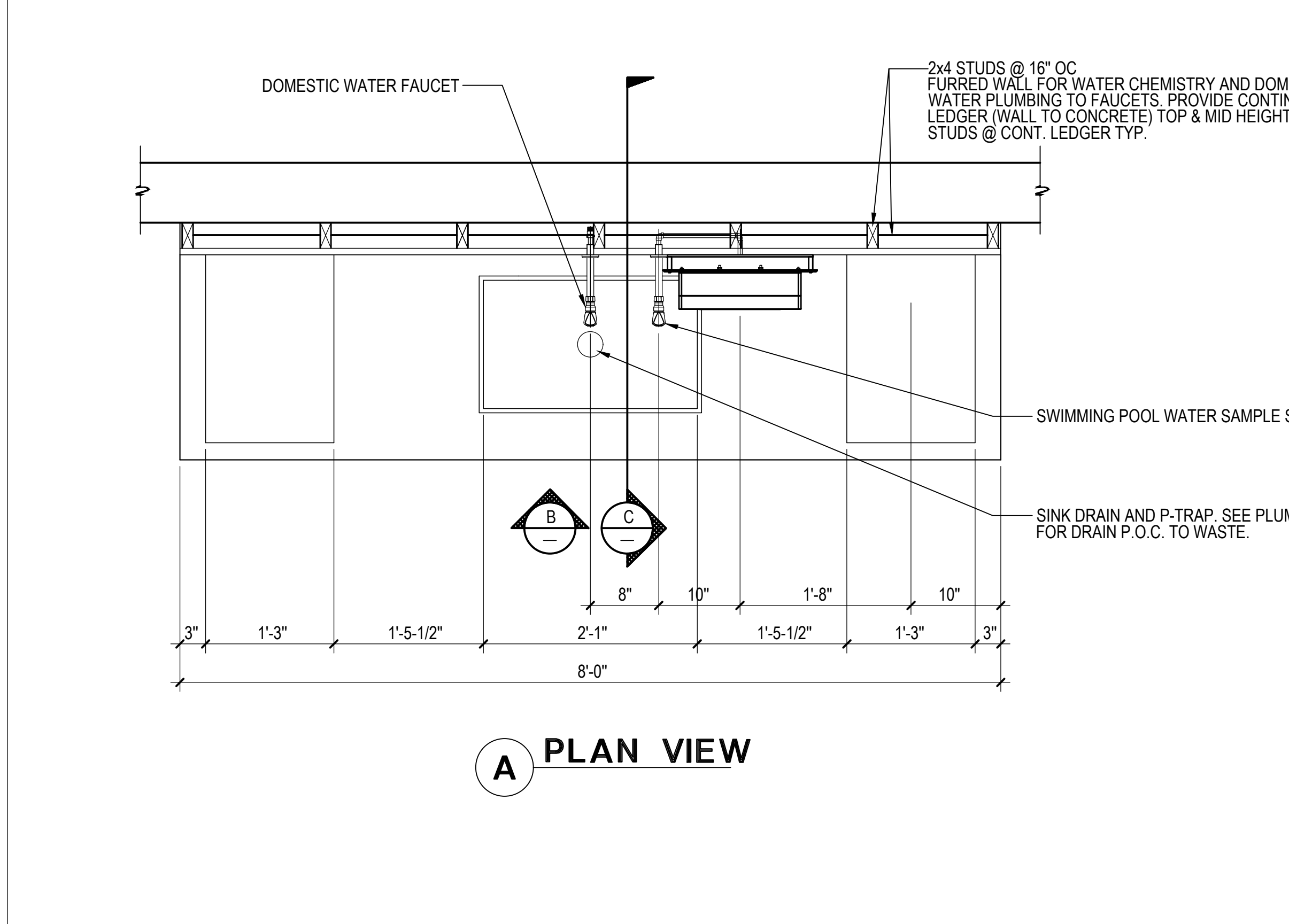
4 'UNISTRUT' PIPING HANGER / SUPPORT DETAILS NO SCALE



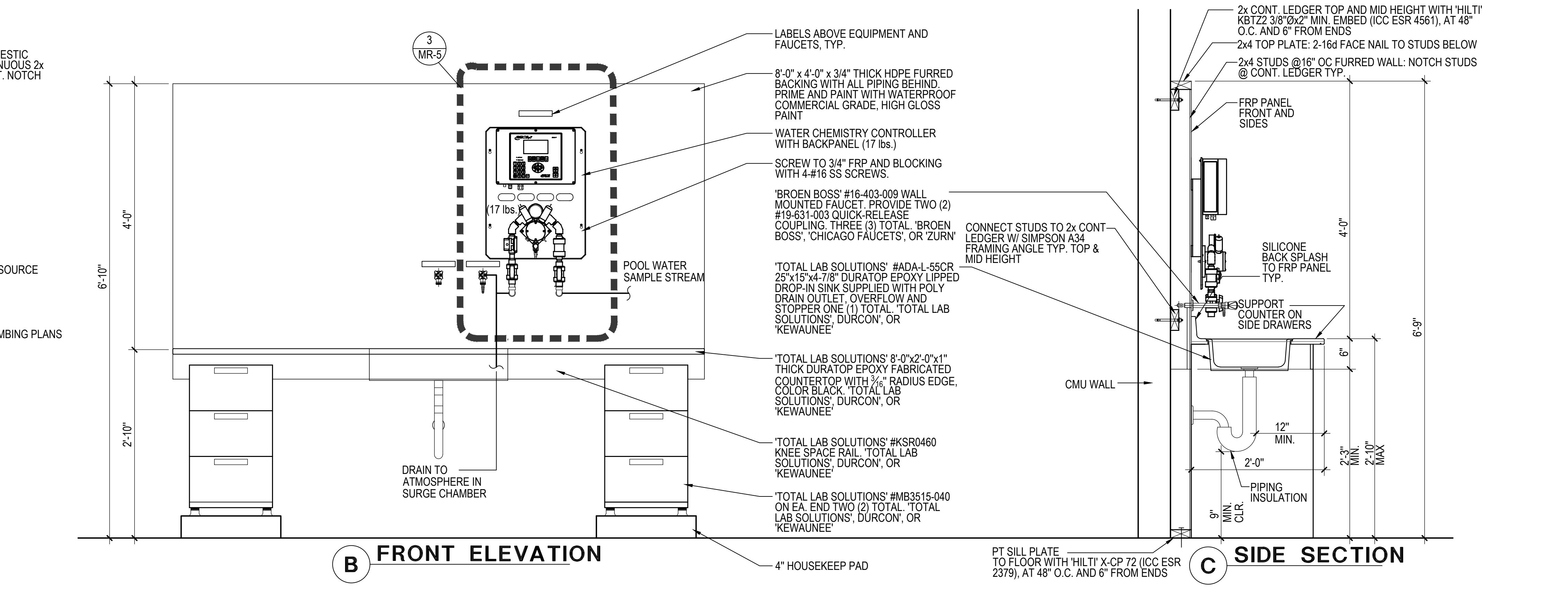
5 PIPE SUPPORT DETAIL NO SCALE



6 PIPE SUPPORT DETAIL NO SCALE



7 POOL OPERATOR WORKSTATION DESK DETAIL NO SCALE



8 POOL OPERATOR WORKSTATION DESK DETAIL NO SCALE