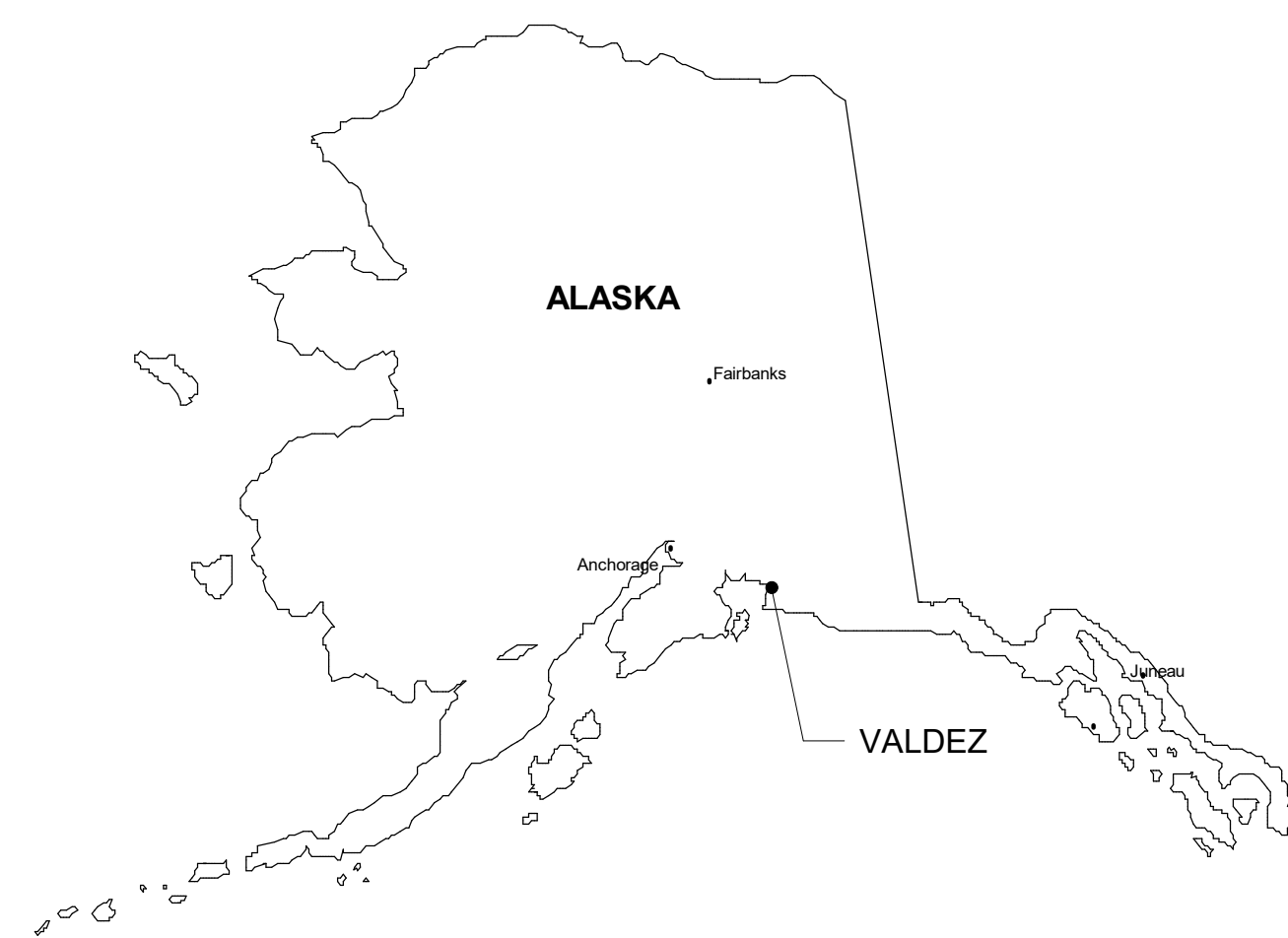


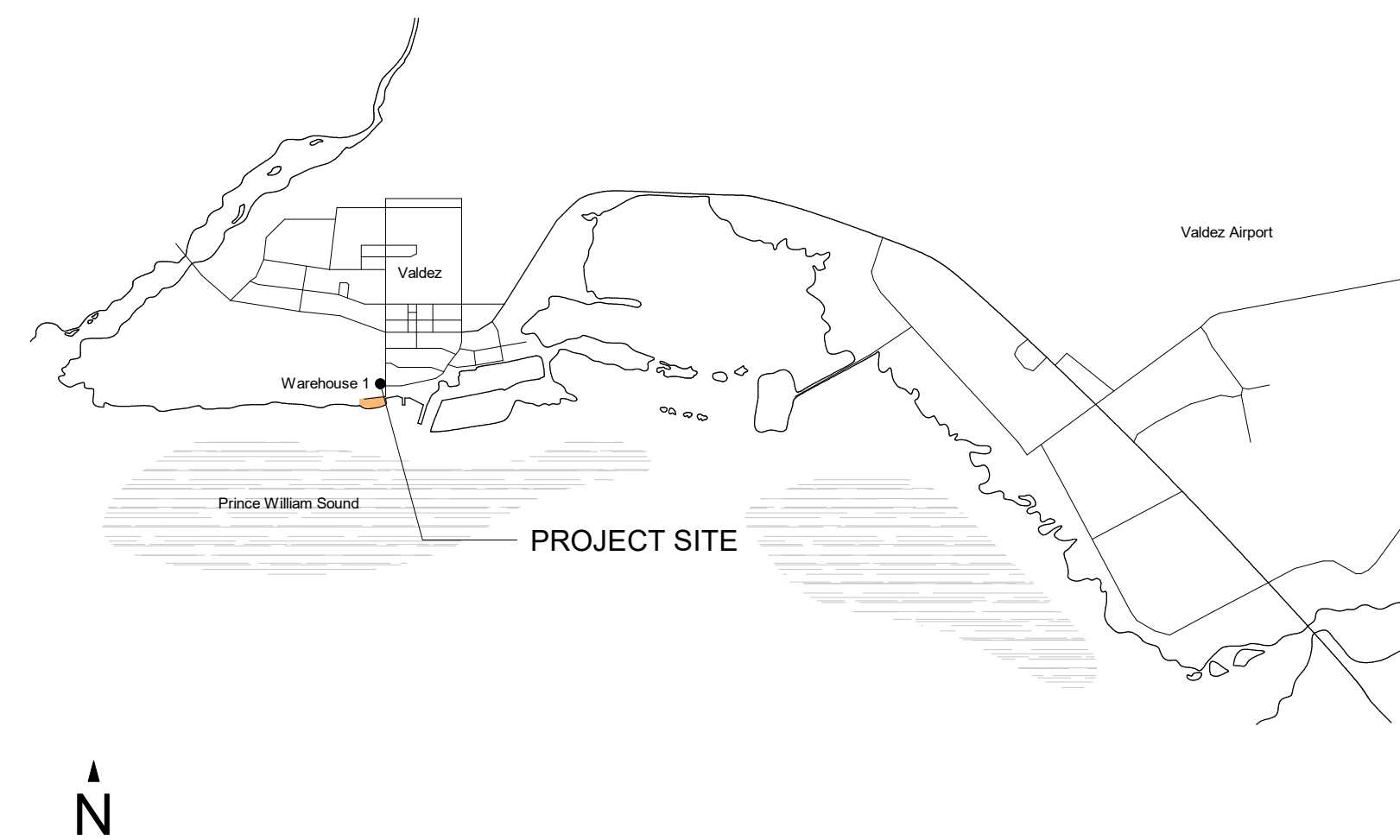


RENDERING FOR REFERENCE ONLY

LOCATION MAP



VICINITY MAP



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 - E4.01 DIAGRAMS, DETAILS, AND SCHEDULES

<p>Owner</p> <p>City of Valdez 212 Chenga Ave Valdez, AK 99686</p> <p>p 907.835.5478 www.valdezak.gov</p>	<p>Architecture + Interiors</p> <p>ECI/Hyer, Inc. 3909 Arctic Blvd., Suite 103 Anchorage, AK 99503</p> <p>p 907.561.5543 www.ecialaska.com</p>	<p>Civil, Structural, Mechanical & Electrical</p> <p>PDC Engineers, Inc. 2700 Gambell St., Ste. 500 Anchorage, AK 99503</p> <p>p 907.743.3200 www.pdceng.com</p>	<p>Landscape Architecture</p> <p>Corvus Design 119 Seward St., Unit 15 Juneau 99801</p> <p>p 907.988.9000 www.corvus-design.com</p>
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COVER SHEET

ECI 3909 ARCTIC BOULEVARD, SUITE 103
ANCHORAGE, ALASKA 99503 907.561.5543
PROJECT NO. 17-0009.01

CITY OF VALDEZ
VALDEZ WAREHOUSE 1 ©2019 ECI/Hyer, Inc.

ISSUE DATE: 05.31.2019
CONSTRUCTION DOCUMENTS **PACKAGE B**

ABBREVIATIONS

ABV	ABOVE
AFF	ABOVE FINISH FLOOR
ALT	ALTERNATE
ARCH	ARCHITECTURAL
BD	BOARD
BLDG	BUILDING
BLK	BLOCK
BLW	BELOW
BO	BOTTOM OF
BOF	BOTTOM OF FINISH
CIP	CAST IN PLACE
CF	CUBIC FOOT
CFOI	CONTRACTOR FURNISHED OWNER INSTALLED
CL	CENTERLINE
CONC	CONCRETE
CONT	CONTINUOUS
CTR	CENTER
DIA	DIAMETER
DIM	DIMENSION
DWG	DRAWING
EA	EACH
EL	ELEVATION
ELEC	ELECTRICAL
EQ	EQUAL
EQUIP	EQUIPMENT
FAF	FLUID APPLIED FLOORING
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISHED FLOOR
FO	FACE OF
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOST	FACE OF STUD
FRT	FIRE RETARDANT TREATED
FT	FOOT, FEET
FURR	FURRING
GA	GAUGE
GALV	GALVANIZED
GWB	GYPSUM WALL BOARD
GYP	GYPSUM WALL BOARD
HR	HOOR
HT	HEIGHT
ID	INSIDE DIAMETER
INCL	INCLUDE, INCLUDED
INSUL	INSULATION
INT	INTERIOR
LH	LEFT HAND
MAX	MAXIMUM
MFR	MANUFACTURER
MKBD	MARKERBOARD
MIN	MINIMUM
MIR	MIRROR
MTL	METAL
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED OWNER INSTALLED
OH	OVERHEAD
PERF	PERFORATED
PLAM	PRESSURE TREATED LAMINATE
PLY	PLYWOOD
PT	PAINT
RCP	REFLECTED CEILING PLAN
REBAR/RB	REINFORCING BARS
REF	REFERENCE
REQD	REQUIRED
SECT	SECTION
SCHED	SCHEDULE
SIM	SIMILAR
SPEC	SPECIFICATION
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STRUCT	STRUCTURAL
TBD	TO BE DETERMINED
TOP	TOP OF BEAM
TOC	TOP OF CONCRETE
TOS	TOP OF STEEL
TYP	TYPICAL
UL	UNDERWRITERS LABORATORY CERTIFIED
UNFIN	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
VIF	VERIFY IN FIELD
WD	WOOD

MATERIALS

	CONCRETE (SECTION)
	EARTH (SECTION)
	FINISH CARPENTRY (SECTION)
	GYPSUM BOARD (SECTION)
	INSULATION, BATT (PLAN & SECTION)
	INSULATION, RIGID (PLAN & SECTION)
	MINERAL WOOD INSULATION (PLAN & SECTION)
	METAL (SECTION)
	FILL (SECTION)
	PLYWOOD (SECTION)
	WOOD, CONTINUOUS (SECTION)
	WOOD, BLOCKING (SECTION)
	STONE (PLAN)

SYMBOLS

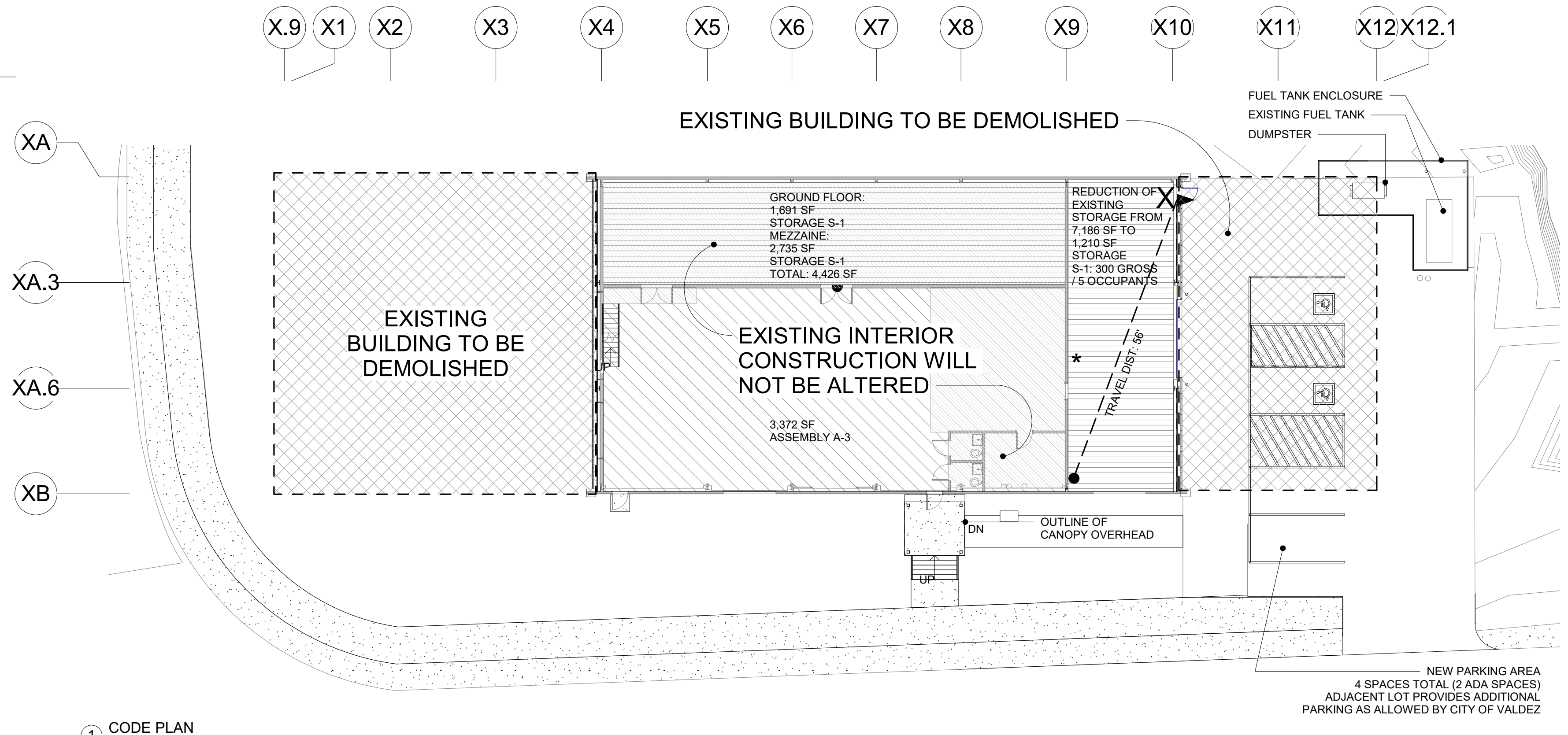
	GRID LINE INDICATION
	ROOM IDENTIFICATION
101	ROOM NAME
150 SF	ROOM NUMBER
	AREA
	INTERIOR / EXTERIOR ELEVATION
XX	DASH INDICATES NO ELEVATION
	BUILDING SECTION
XX	SECTION NUMBER
XX	SECTION SHEET
	WALL SECTION
XX	SECTION NUMBER
XX	SECTION SHEET
	DETAIL
XX	DETAIL NUMBER
XX	DETAIL SHEET
	DOOR NUMBER
101	REFER TO DOOR SCHEDULE
	WINDOW TYPE
J	REFER TO WINDOW SCHEDULE
	KEYNOTE
1	REFER TO NOTES LISTED ON SHEET
	WALL TYPE INDICATOR
A1	REFER TO WALL LEGEND
	FLOOR, CEILING, ROOF TYPE INDICATOR
F1	REFER TO FLOOR, CEILING, ROOF LEGEND
	WORK POINT
	(CONTROL or DATUM POINT)

ASSEMBLIES

	INSULATED METAL PANEL WALL
A1	2 1/2" INSULATED METAL PANEL GIRT PER STRUCTURAL

GENERAL NOTES

- CONSTRUCTION IS TO BE IN COMPLIANCE WITH ALL LOCAL, STATE, & FEDERAL BUILDING CODES.
- THE CITY OF VALDEZ STANDARD GENERAL PROVISIONS, DIVISION 107 APPLY TO THE PROJECT.
- CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK.
- CONTRACTOR TO NOTIFY OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES TO AS-BUILT CONDITIONS.
- FIELD VERIFY ALL DIMENSIONS AND EQUIPMENT LOCATIONS. NOTIFY ARCHITECT OF DISCREPANCIES BETWEEN THE DOCUMENTS AND FIELD CONDITIONS.
- CONTRACTOR TO PROTECT ALL EXISTING BUILDINGS, STRUCTURES, FURNITURE, FINISHES, AND EQUIPMENT.
- ALL DIMENSIONS ARE TO FACE OF FINISH UNLESS OTHERWISE NOTED.



1 CODE PLAN
1/16" = 1'-0"

CODE LEGEND

	COMMON PATH OF EGRESS		EXISTING CONSTRUCTION
	EXIT ACCESS TRAVEL DISTANCE		NEW CONSTRUCTION
	EXIT ACCESS STARTING/DECISION POINT		DEMOLISHED CONSTRUCTION
	FIRE EXTINGUISHER		OCCUPANCY TYPE: STORAGE (S-1)
	FIRE EXIT		OCCUPANCY TYPE: ASSEMBLY (A-3)

CODE ANALYSIS

PROJECT DESCRIPTION: THE EXISTING PRE-ENGINEERED METAL BUILDING IS CURRENTLY DIVIDED INTO THREE SEPARATE SPACES. THE SOUTH AREA WILL BE DEMOLISHED, THE NORTH END WILL BE REDUCED IN SIZE, AND THE CENTRAL AREA WILL REMAIN AS IS.

INTERNATIONAL BUILDING CODE ANALYSIS

APPLICABLE CODES:
 STATE OF ALASKA
 2012 INTERNATIONAL BUILDING CODE (WITH STATE AMENDMENTS)
 2012 INTERNATIONAL ENERGY CONSERVATION CODE
 2012 INTERNATIONAL MECHANICAL CODE (WITH STATE AMENDMENTS)
 2012 INTERNATIONAL FIRE CODE (WITH STATE AMENDMENTS)
 CITY OF VALDEZ
 2011 NATIONAL ELECTRIC CODE (WITH CITY OF VALDEZ AMENDMENTS)
 2009 UNIFORM PLUMBING CODE (WITH CITY OF VALDEZ AMENDMENTS)

IBC SECTION 3401.4 ALTERATIONS
 MATERIALS ALREADY IN USE IN A BUILDING IN COMPLIANCE WITH REQUIREMENTS OR APPROVALS IN EFFECT AT THE TIME OF THEIR ERECTION OR INSTALLATION SHALL BE PERMITTED TO REMAIN IN USE UNLESS DETERMINED BY THE BUILDING OFFICIAL TO BE UNSAFE PER SECTION 116.

UPC TABLE 4-1
 TABLE 4-1 APPLIES TO NEW BUILDINGS, ADDITIONS TO A BUILDING, AND CHANGES OF OCCUPANCY OR TYPE OF AN EXISTING BUILDING RESULTING IN INCREASED OCCUPANT LOAD. DESIGNED ALTERATIONS DO NOT CHANGE THE USE OR INCREASE THE OCCUPANT LOAD OF THE BUILDING.

IBC SECTION 302 OCCUPANCY CLASSIFICATION: MIXED USE NON SEPARATED - A3 (ASSEMBLY) & STORAGE S-1. EXISTING S-1 STORAGE OUTSIDE OF "MUSEUM SPACE" BEING REDUCED FROM 7,186 SF TO 1,210 SF.

IBC SECTION 503 GENERAL BUILDING HEIGHT AND AREA LIMITATIONS
 TYPE VB - A-3 (S) - 1 STORY - 6,000 SF (MOST RESTRICTIVE)
 TYPE VB - S-1 (S) - 1 STORY - 9,000 SF

IBC SECTION 506.2 FRONTAGE INCREASE
 WHERE A BUILDING HAS MORE THAN 25 PERCENT OF ITS PERIMETER ON A PUBLIC WAY OR OPEN SPACE HAVING A WIDTH OF NOT LESS THAN 20 FEET, THE FRONTAGE INCREASE SHALL BE DETERMINED IN ACCORDANCE WITH EQUATION 5-2.
 $((228 \text{ FT}/341 \text{ FT}) - 25)/30/30 = 42$
 AREA INCREASE - 6,000' * 42 = 2,520 SF

IBC SECTION 506.3 AUTOMATIC SPRINKLER SYSTEM INCREASE
 A BUILDING EQUIPPED THROUGHOUT WITH AN APPROVED AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1, THE BUILDING AREA LIMITATION IN TABLE 503 IS PERMITTED TO BE INCREASED BY AN ADDITIONAL 200%.
 AREA INCREASE - 6,000' * 200% = 12,000

TOTAL ALLOWABLE AREA: 14,520 SF
TOTAL AREA AFTER MODIFICATIONS: 6,432 (LARGEST PLATE)
TOTAL AREA: 9,008 SF (A-3: 3,372 SF; S-1: 5,636 SF)

IBC SECTION 508.3 NONSEPARATED OCCUPANCIES
 NONSEPARATED OCCUPANCIES SHALL BE INDIVIDUALLY CLASSIFIED IN ACCORDANCE WITH SECTION 302.1. THE MOST RESTRICTIVE PROVISIONS OF CHAPTER 9 WHICH APPLY TO THE NONSEPARATED OCCUPANCIES SHALL APPLY TO THE TOTAL NONSEPARATED OCCUPANCY AREA.

508.3.3 SEPARATION
 NO SEPARATION IS REQUIRED BETWEEN NONSEPARATED OCCUPANCIES.

IBC 601 (TABLE 601) CONSTRUCTION TYPE
 TYPE VB (WITH SPRINKLER)

IBC SECTION 803.9 INTERIOR FINISH REQUIREMENTS BASED ON GROUP
 GROUP S
 ROOMS AND ENCLOSED SPACES: CLASS C

IBC SECTION 906 PORTABLE FIRE EXTINGUISHERS (FE): MAX. TRAVEL DISTANCE TO FE: 75 FT (LIGHT (LOW HAZARD))

IBC SECTION 907.2.1 FIRE ALARM AND DETECTION SYSTEMS
 GROUP A/S (AS IT APPLIES TO THE STORAGE AREA ALTERATIONS):
 EXCEPTION: MANUAL FIRE ALARM BOXES ARE NOT REQUIRED WHERE THE BUILDING IS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH SECTION 903.3.3.1.1 AND OCCUPANT NOTIFICATION APPLIANCES WILL ACTIVATE THROUGHOUT THE NOTIFICATION ZONES UPON SPRINKLER WATERFLOW.

IBC SECTION 1004 OCCUPANT LOAD (STORAGE)
 STORAGE AREAS: 1 OCCUPANT PER 300 SF
 STORAGE AREA: 1,210 SF/300 SF
 OCCUPANT LOAD: 5 OCCUPANTS

IBC SECTION 1005 MEANS OF EGRESS SIZING (STORAGE)
 MAX OCCUPANT LOAD OF EGRESS: 5
 EGRESS WIDTH AT STAIRS: OCC X 3' = N/A
 EGRESS WIDTH AT OTHER COMPONENTS: OCC X 2' = 1"
 1. EGRESS DOOR PROVIDED: 36"

IBC SECTION 1007.1 ACCESSIBLE MEANS OF EGRESS REQUIRED
 WHERE MORE THAN ONE MEANS OF EGRESS ARE REQUIRED BY SECTION 1015.1 OR 1012.1 FROM ANY ACCESSIBLE SPACE, EACH ACCESSIBLE PORTION OF THE SPACE SHALL BE SERVED BY NOT LESS THAN TWO ACCESSIBLE MEANS OF EGRESS.
 EXCEPTION:
 1. ACCESSIBLE MEANS OF EGRESS ARE NOT REQUIRED IN ALTERATIONS TO EXISTING BUILDINGS.

IBC SECTION 1008: DOORS
 1008.1.2: DOORS SHALL SWING IN DIRECTION OF TRAVEL WHERE SERVING AN OCCUPANT LOAD OF 50 OR MORE.

IBC SECTION 1011: EXIT SIGNS
 EXITS AND EXIT ACCESS DOORS SHALL BE MARKED BY AN APPROVED EXIT SIGN READILY VISIBLE FROM ANY DIRECTION OF EGRESS TRAVEL. THE PATH OF EGRESS TRAVEL TO EXITS SHALL BE MARKED BY READILY VISIBLE EXIT SIGNS TO CLEARLY INDICATE THE DIRECTION OF EGRESS TRAVEL.

IBC SECTION 1014.3: COMMON PATH OF EGRESS
 OCCUPANCY S WITH SPRINKLER SYSTEM - 100 FT

IBC SECTION 1015.1: SPACES WITH ONE EXIT OR EXIT ACCESS DOORWAY
 OCCUPANCY S, MAXIMUM OCCUPANT LOAD OF THE SPACE FOR ONE EXIT: 29

IBC SECTION 1021.2: NUMBER OF EXITS
 ONE EXIT REQUIRED FOR S OCCUPANCY WITH 29 OR LESS OCCUPANTS/BASEMENT OR FIRST FLOOR, 29 OR LESS OCCUPANTS ON LEVEL 02, AND A MAXIMUM TRAVEL DISTANCE LESS THAN 100 FEET WITH SPRINKLER SYSTEM.

CITY OF VALDEZ
WAREHOUSE 1 REMODEL
 436 FERRY TERMINAL WAY,
 VALDEZ, AK 99686



CODE ANALYSIS & GENERAL INFO

AUTHOR: JMS
 REVISION:
 ISSUE DATE: 05.31.2019
 CHECKED: JWS

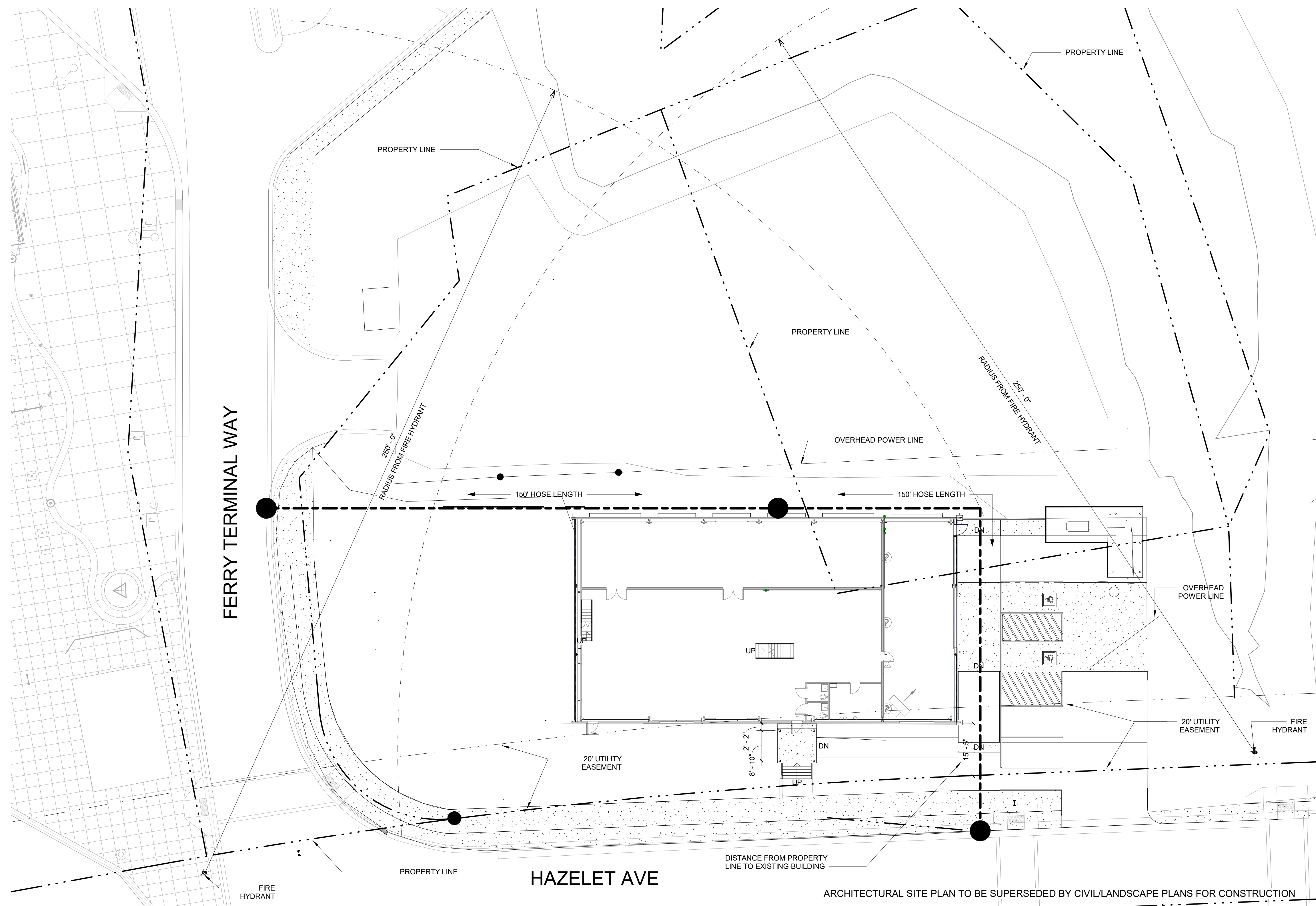
A1.0.1

FULL SIZE PRINTED ON 22 x 34

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 ANCHORAGE, ALASKA 99503 907.561.5543
 PROJECT NO. 17-0009.01

CONSTRUCTION DOCUMENTS



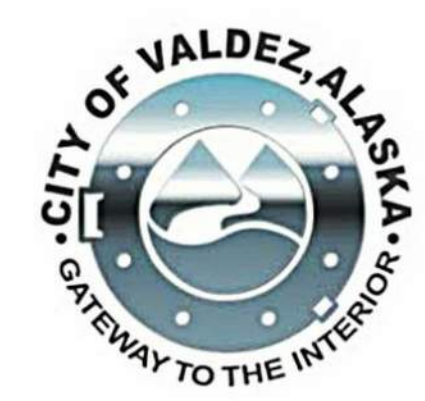
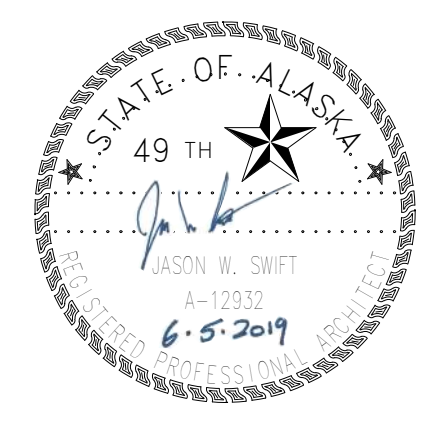
1 SITE PLAN
1/16" = 1'-0"



SITE PLAN

AUTHOR: JMS
REVISION:
ISSUE DATE: 05.31.2019

CHECKED: JWS

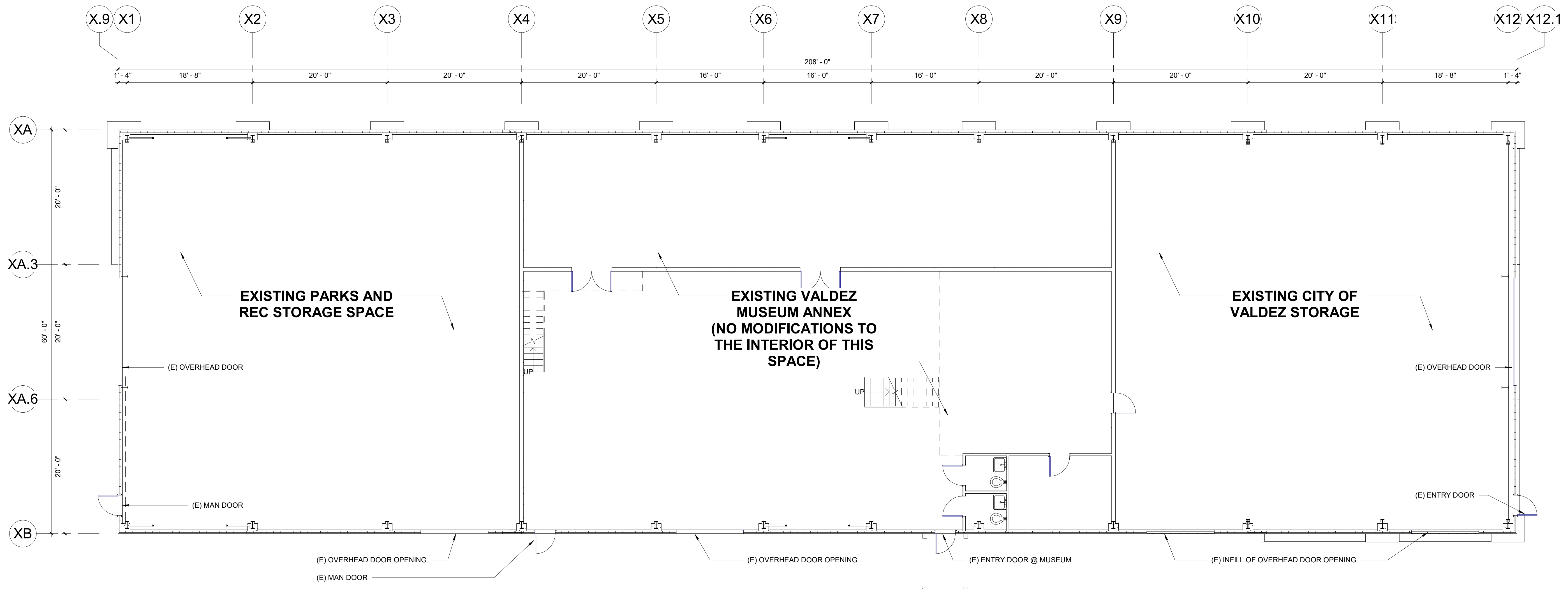


CITY OF VALDEZ
WAREHOUSE 1 REMODEL
436 FERRY TERMINAL WAY,
VALDEZ, AK 99686
CONSTRUCTION DOCUMENTS

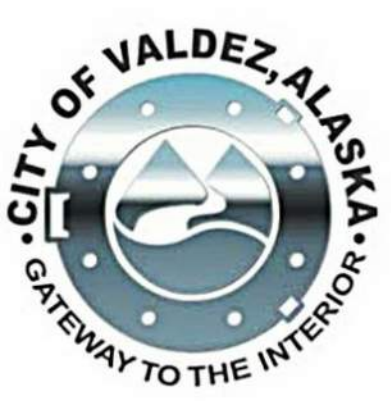
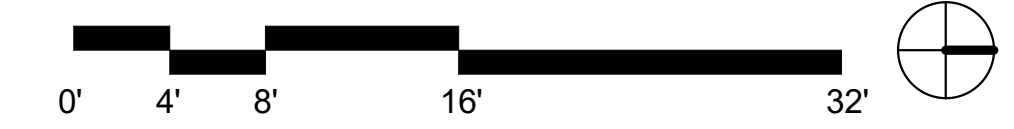
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1 FLOOR PLAN (EXISTING)
1/8" = 1'-0"



FLOOR PLAN (EXISTING)
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 REVISION:
 ISSUE DATE: 05.31.2019
 CHECKED: JWS

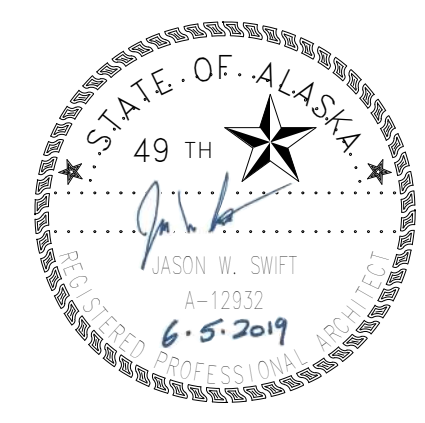
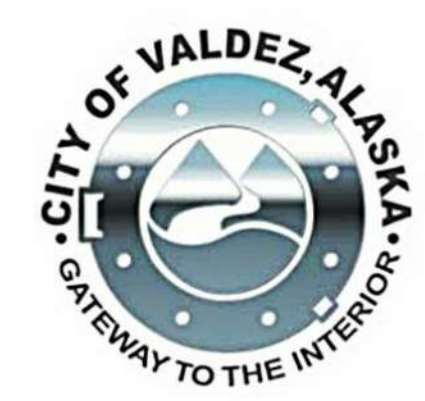
DEMOLITION GENERAL NOTES

1. FIELD VERIFY ALL DIMENSIONS AND EQUIPMENT LOCATIONS. NOTIFY ARCHITECT OF DISCREPANCIES BETWEEN THE DOCUMENTS AND FIELD CONDITIONS
2. COORDINATE DEMOLITION WORK WITH NEW CONSTRUCTION.
3. REPAIR DEMOLITION PERFORMED IN EXCESS OF THAT REQUIRED. REPAIR, PATCH, AND PAINT AS NEEDED TO LIKE NEW CONDITION. SURFACES WHICH ARE TO REMAIN BUT HAVE BECOME SOILED OR DAMAGED BY DEMOLITION WORK.

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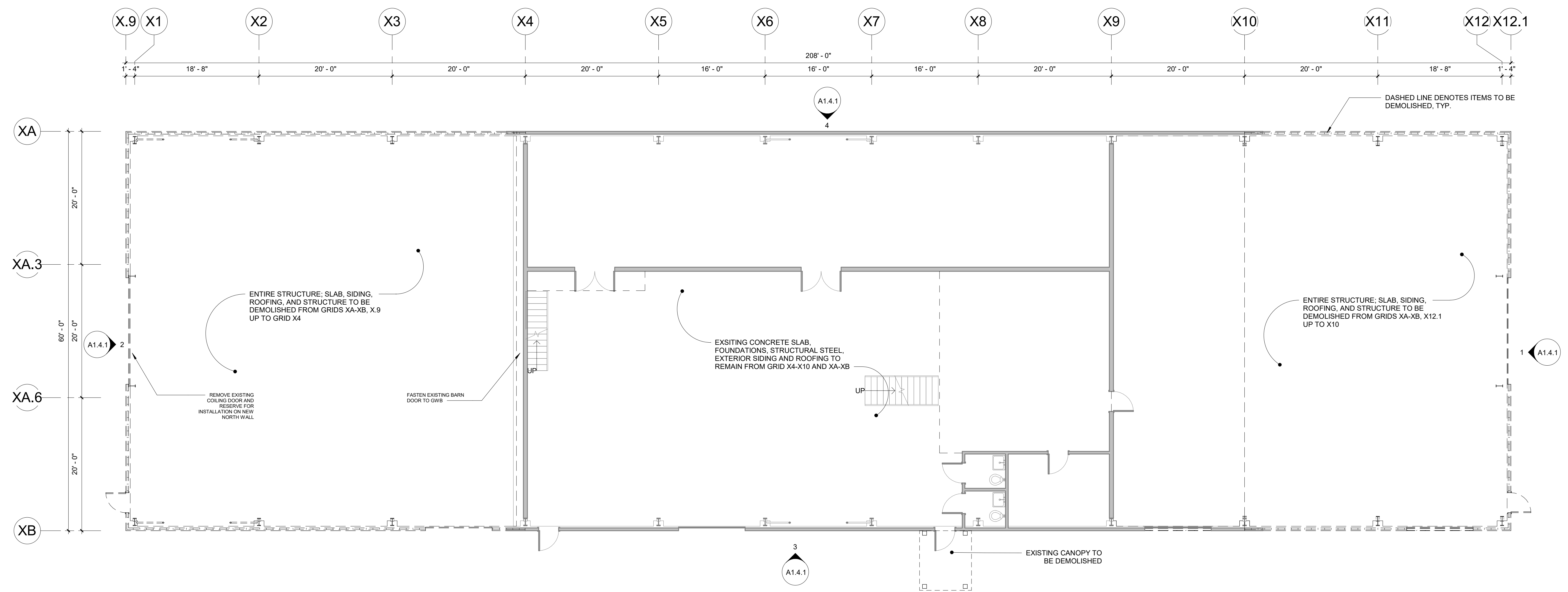
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CITY OF VALDEZ
WAREHOUSE 1 REMODEL
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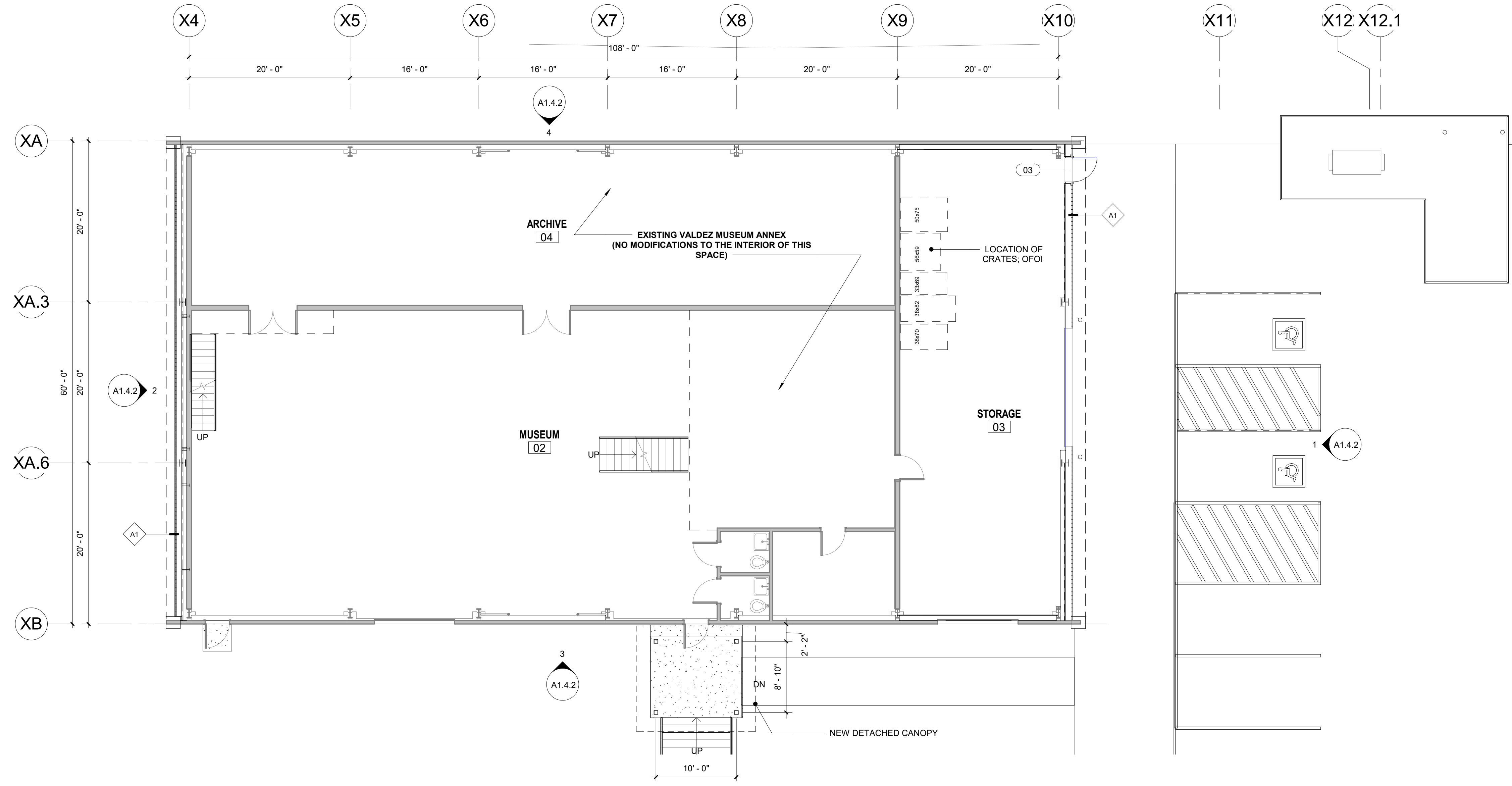
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 REVISION:
 ISSUE DATE: 05.31.2019

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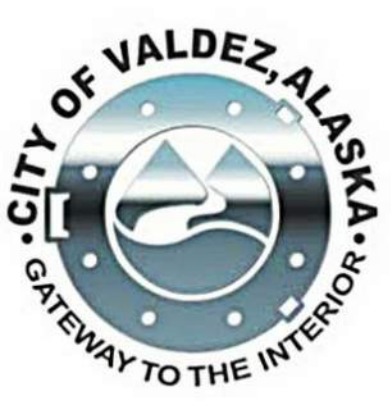
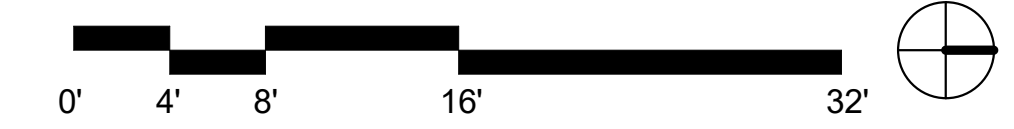


1 FLOOR PLAN (DEMO)
 1/8" = 1'-0"





1 FLOOR PLAN
1/8" = 1'-0"



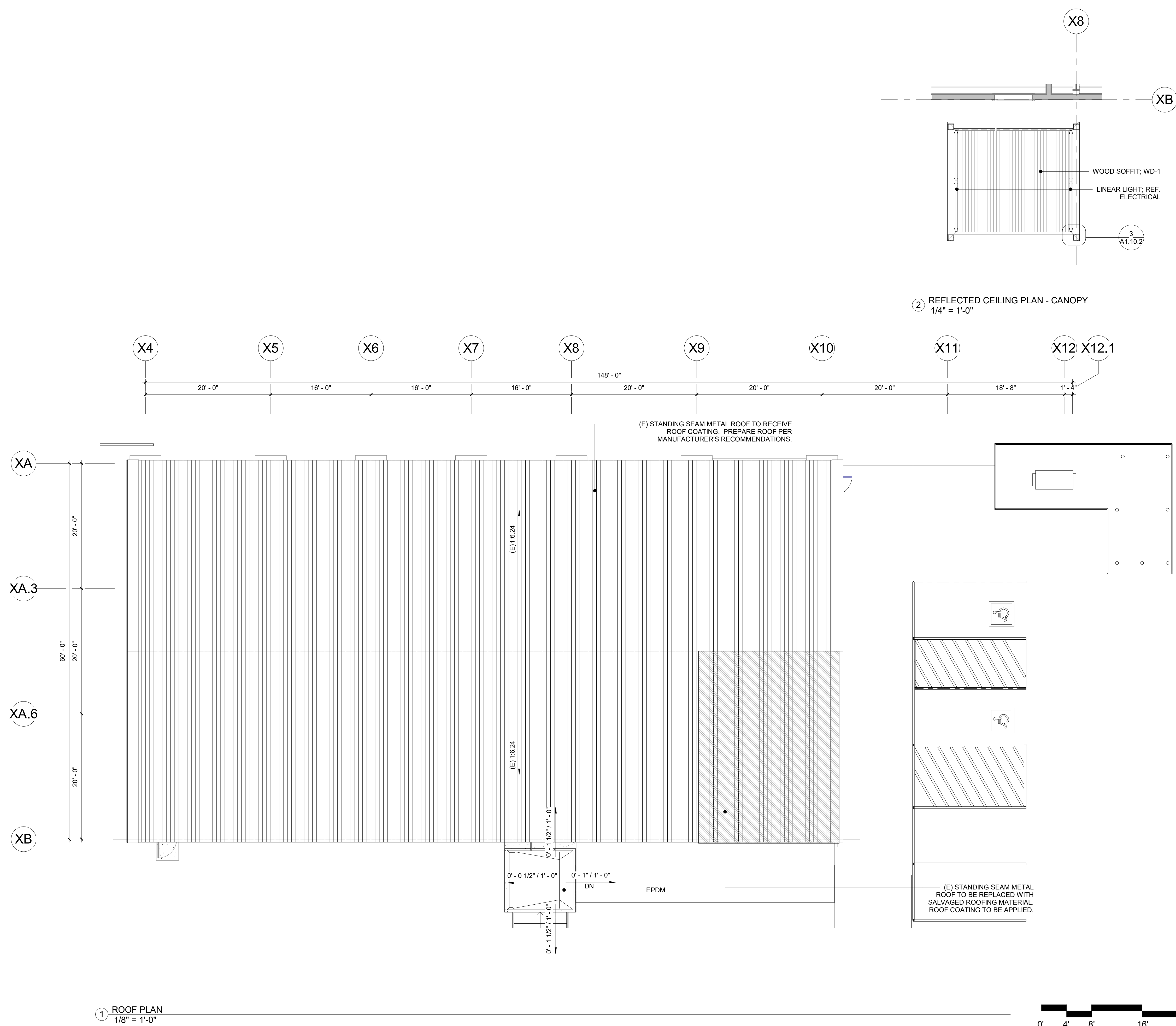
FLOOR PLAN (NEW)
 AUTHOR: JMS
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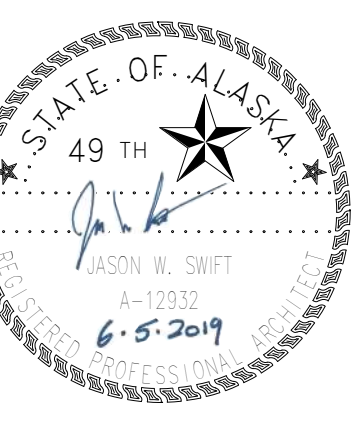
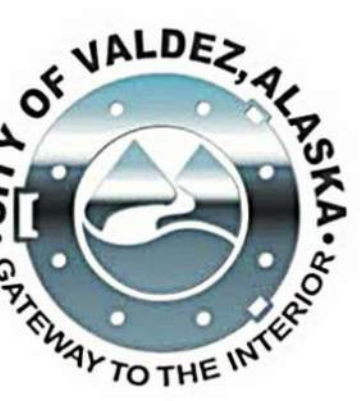
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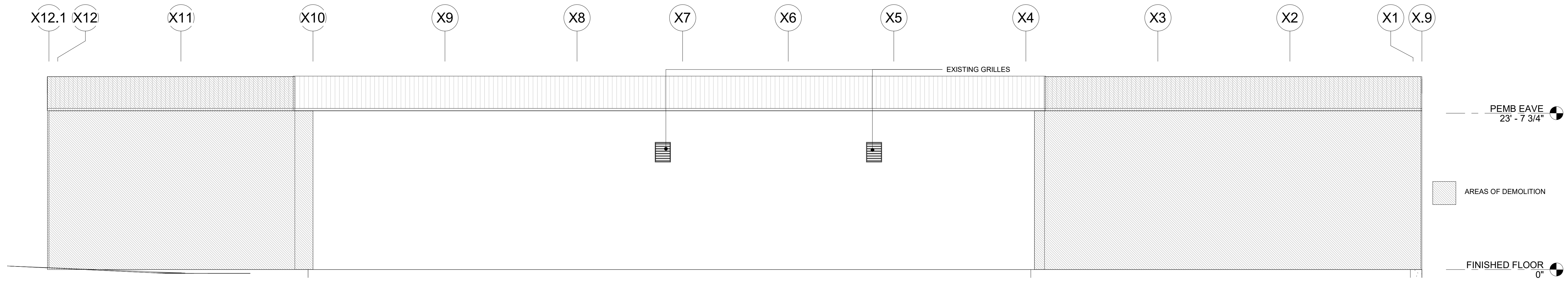
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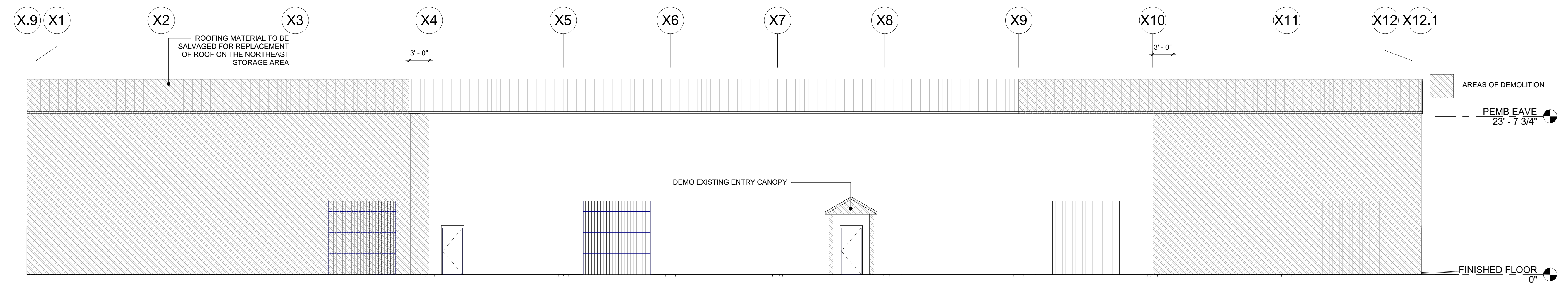
1 ROOF PLAN
1/8" = 1'-0"

2 REFLECTED CEILING PLAN - CANOPY
1/4" = 1'-0"

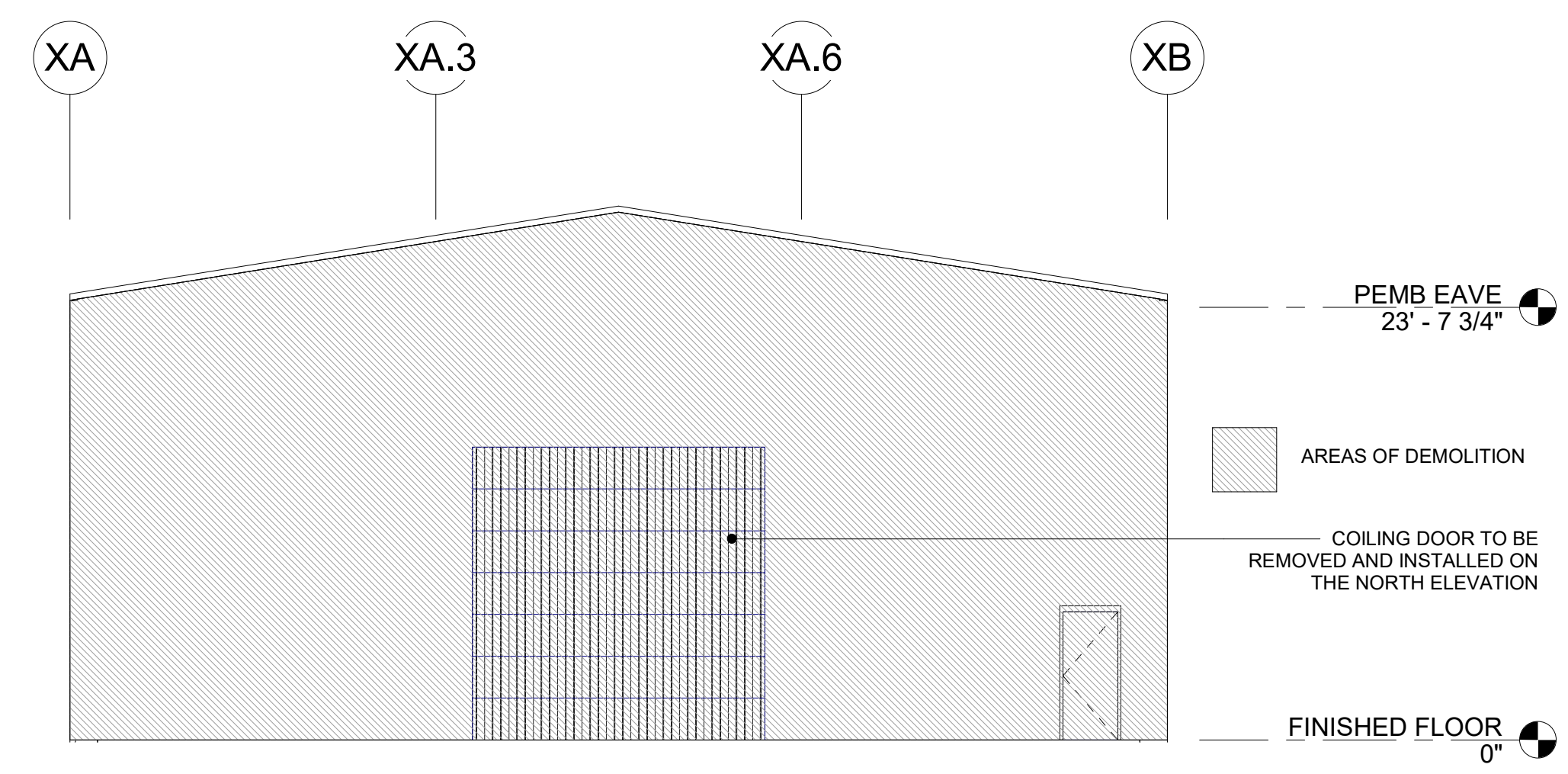




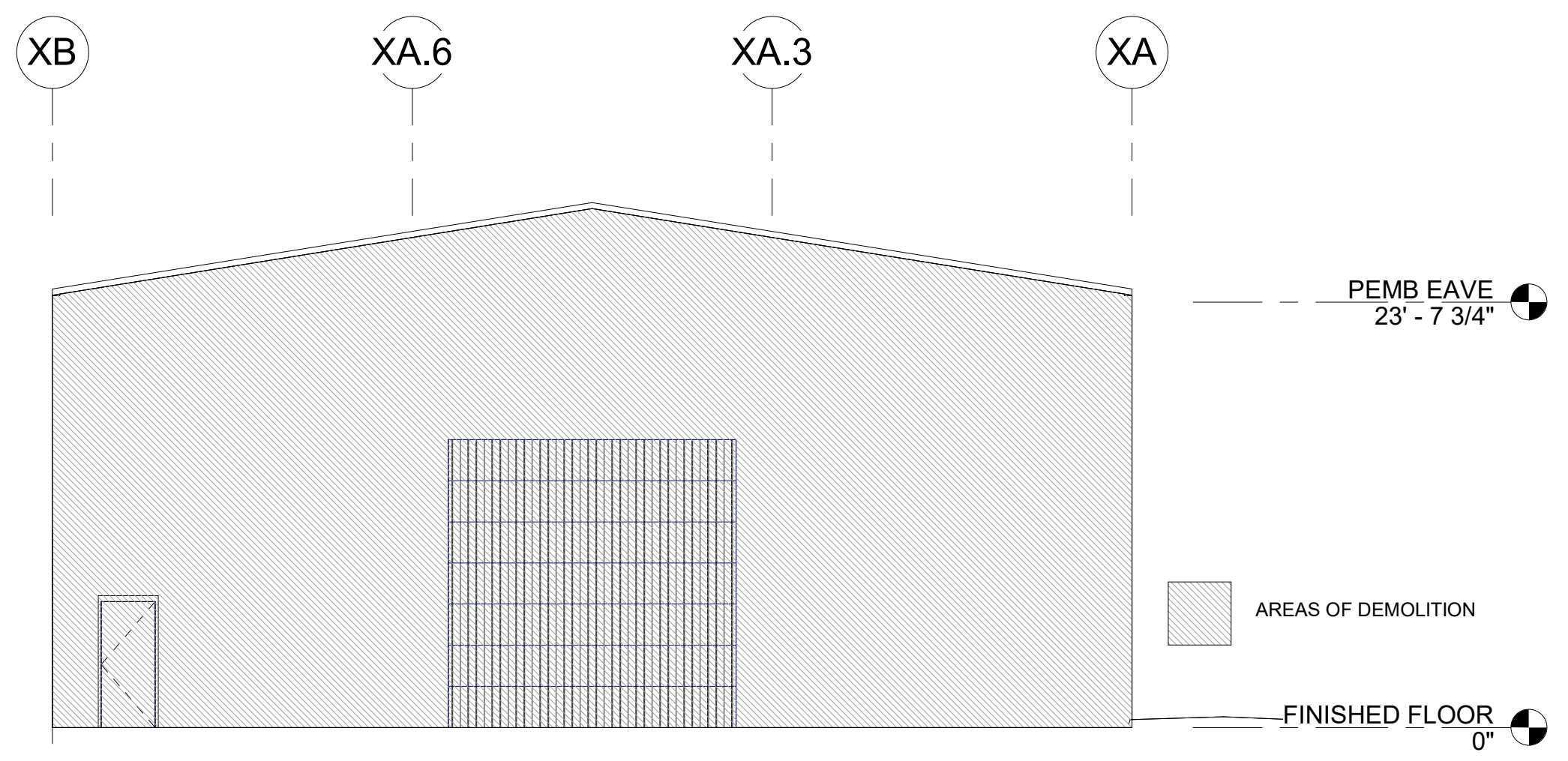
4 WEST ELEVATION (EXISTING)
1/8" = 1'-0"



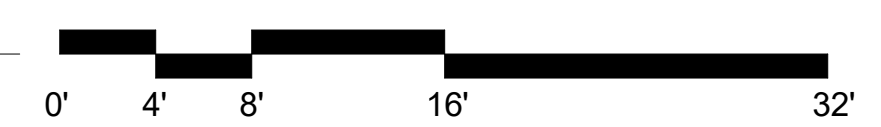
3 EAST ELEVATION (EXISTING)
1/8" = 1'-0"



2 SOUTH ELEVATION (EXISTING)
1/8" = 1'-0"

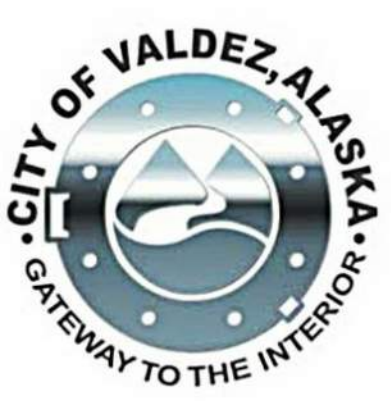


1 NORTH ELEVATION (EXISTING)
1/8" = 1'-0"



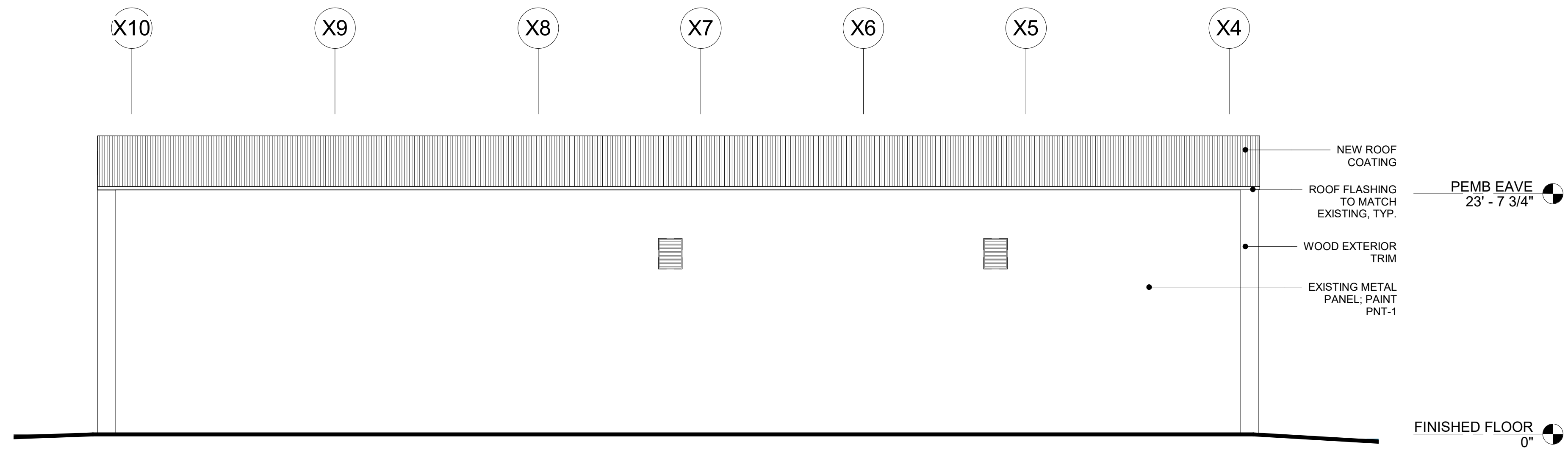
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WAREHOUSE 1 REMODEL
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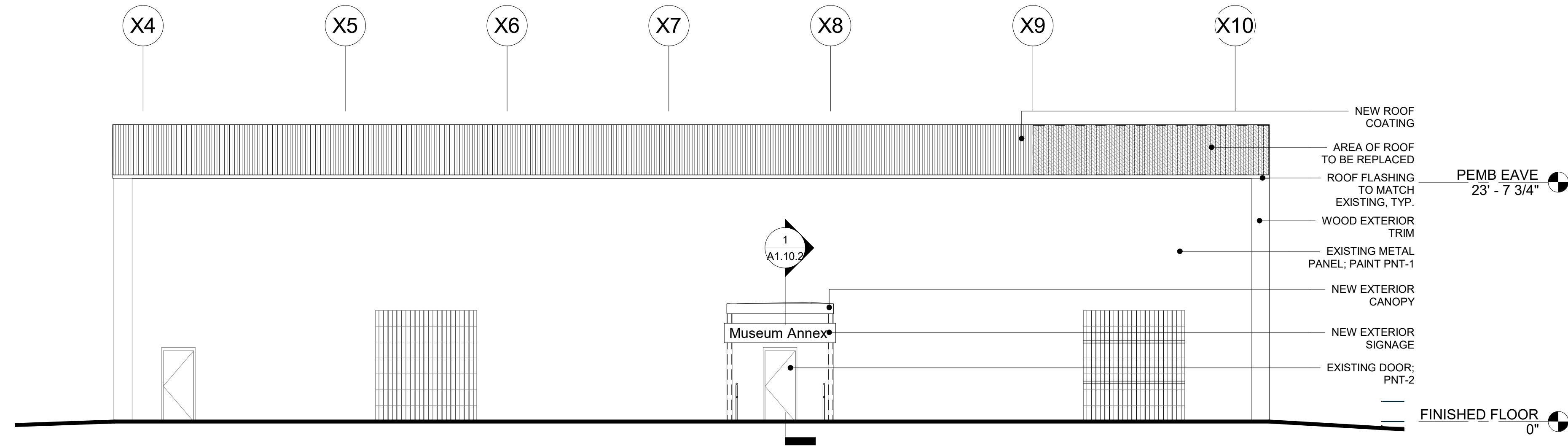


EXTERIOR ELEVATIONS (EXISTING)
AUTHOR: DPP/JMS CHECKED: JWS
REVISION:
ISSUE DATE: 05.31.2019

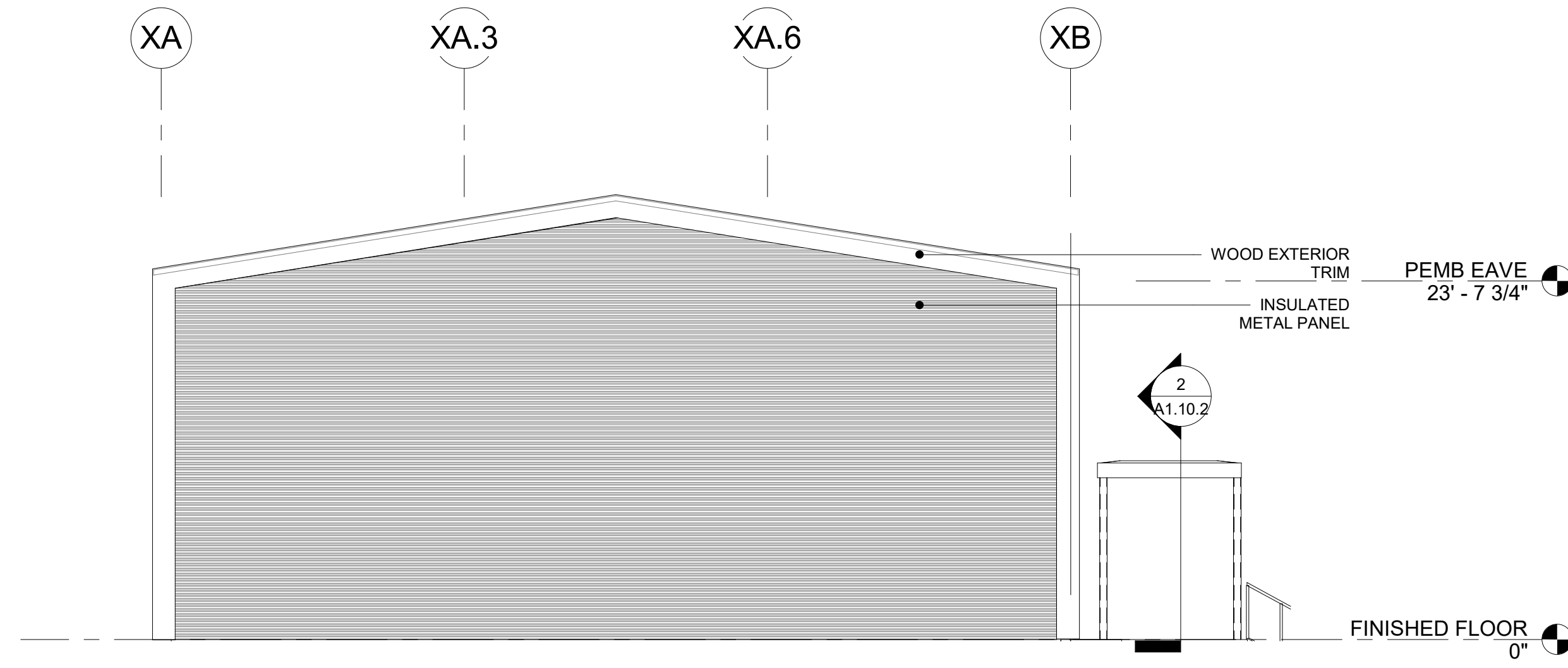
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ANCHORAGE, ALASKA 99503 907.561.5543
PROJECT NO. 17-0009.01



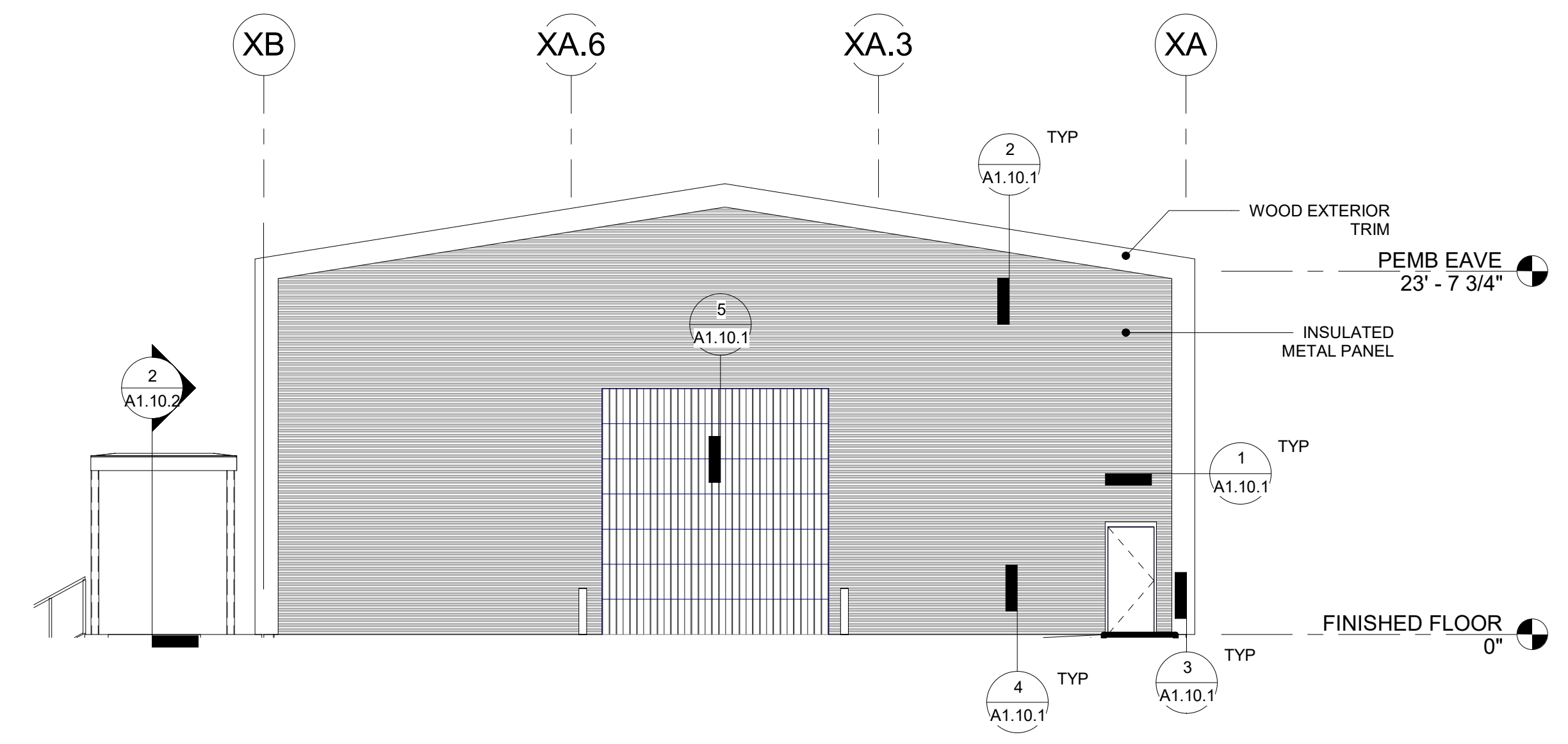
④ WEST ELEVATION (NEW)
1/8" = 1'-0"



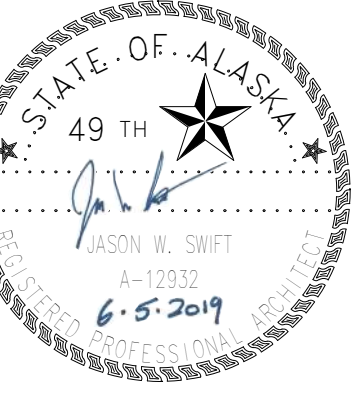
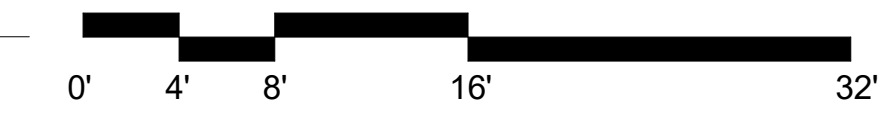
③ EAST ELEVATION (NEW)
1/8" = 1'-0"



② SOUTH ELEVATION (NEW)
1/8" = 1'-0"



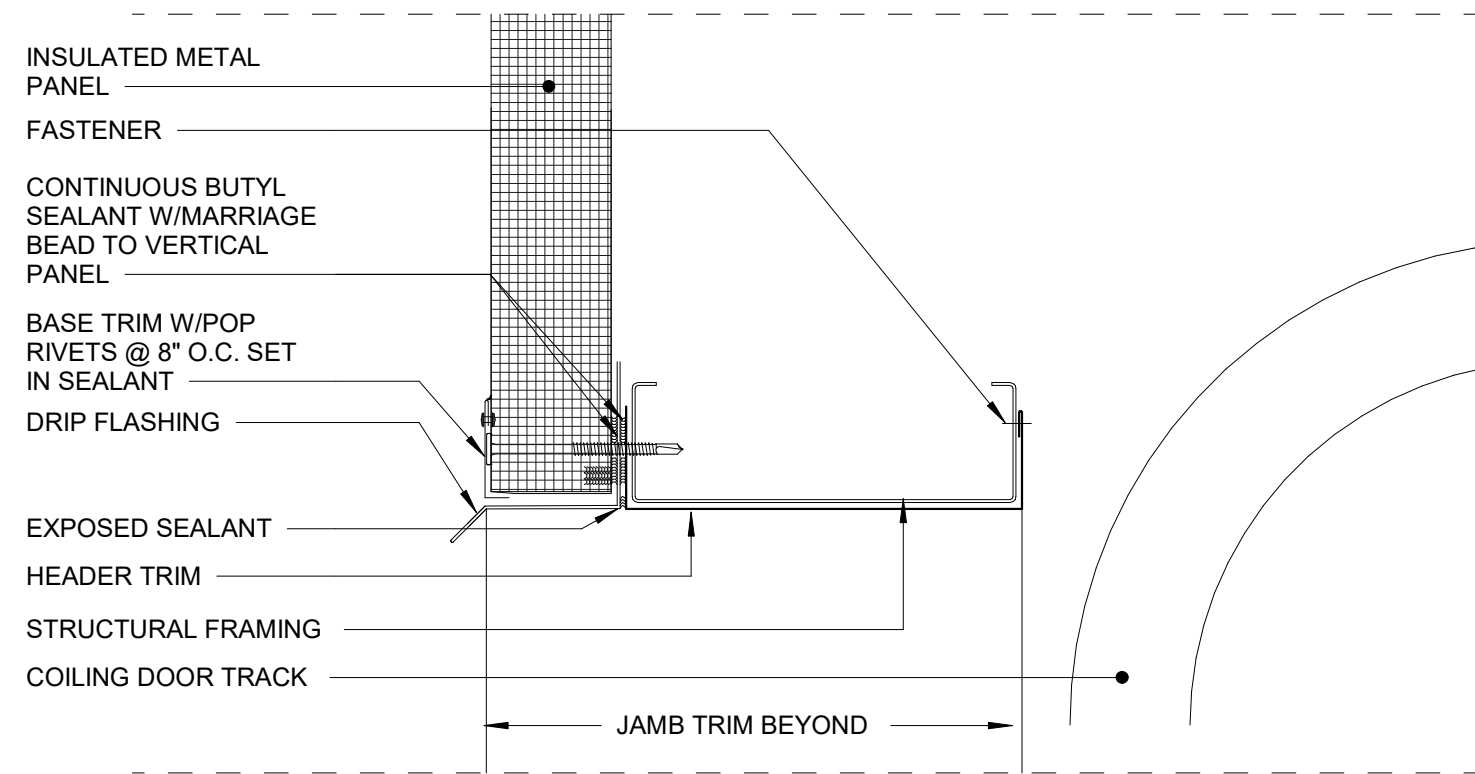
① NORTH ELEVATION (NEW)
1/8" = 1'-0"



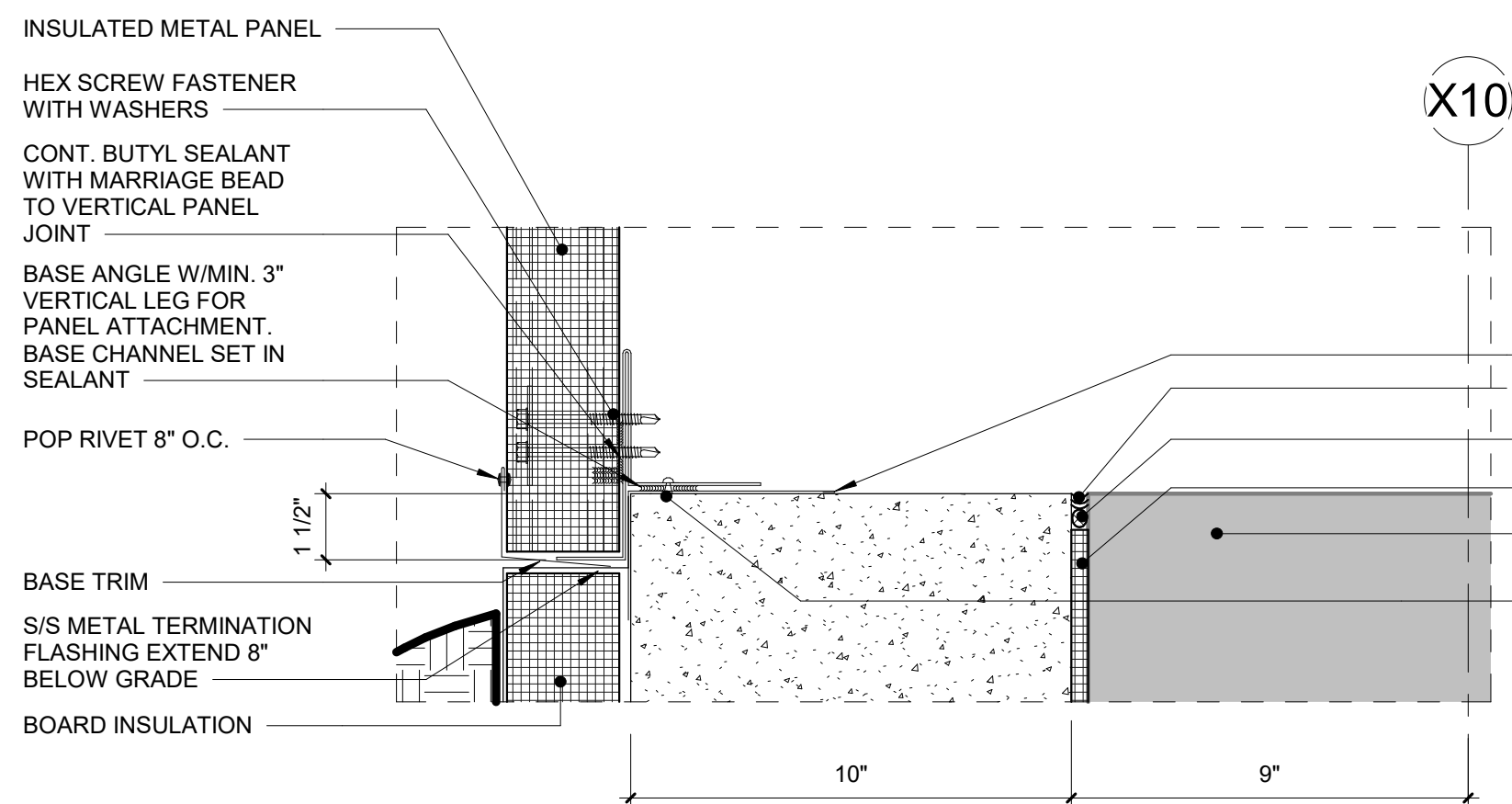
DOOR SCHEDULE - NEW								
Mark	Width	Height	Thickness	Door Material	Door Finish	Frame Material	Frame Finish	Comments
03	3'-0"	7'-0"	1 3/4"	INSULATED HOLLOW METAL	PNT-2	INSULATED HOLLOW METAL	PNT-2	OPENING DETAILS: CI-FO-02-KSV & CI-FO-03-KSV

FINISH LEGEND

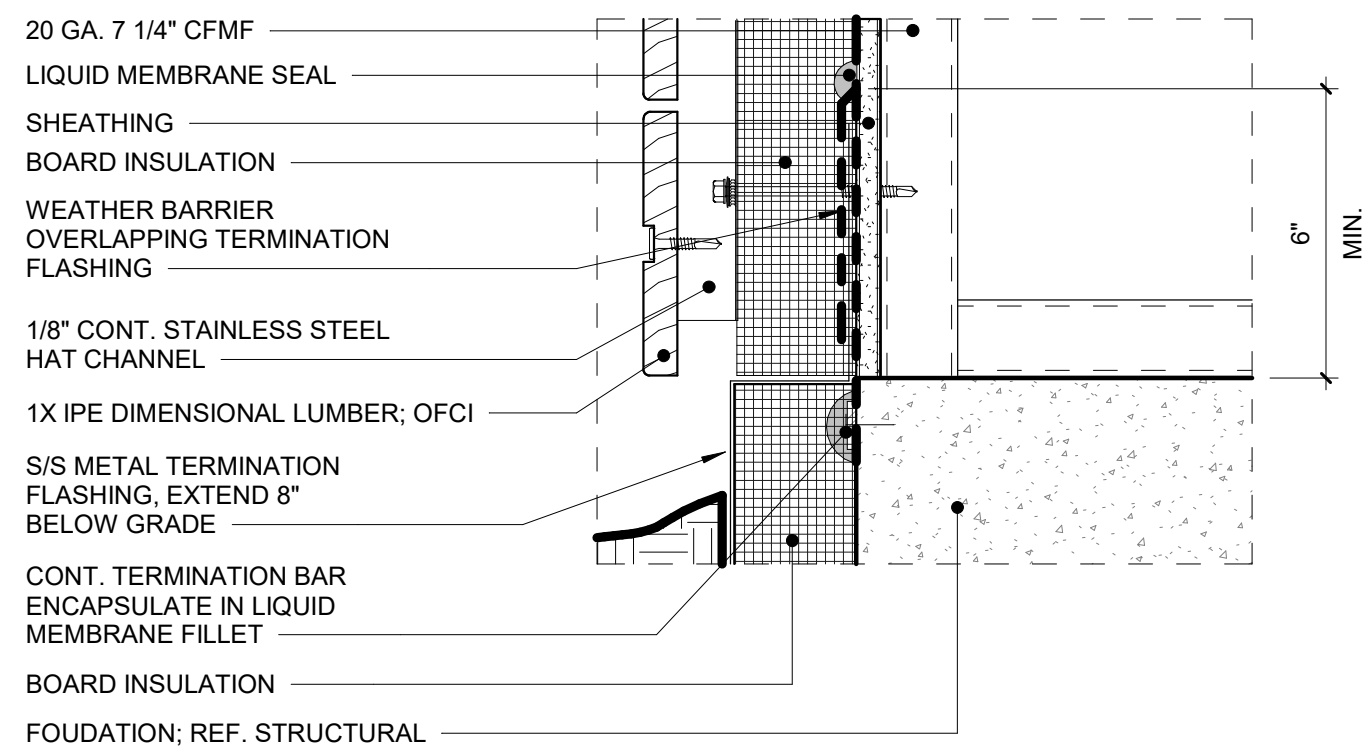
PNT-1: EXTERIOR METAL PANELS; COLOR TBD BY OWNER
PNT-2: EXISTING ENTRY DOOR; COLOR TBD BY OWNER
PNT-3: CANOPY PAINT; COLOR TBD BY OWNER



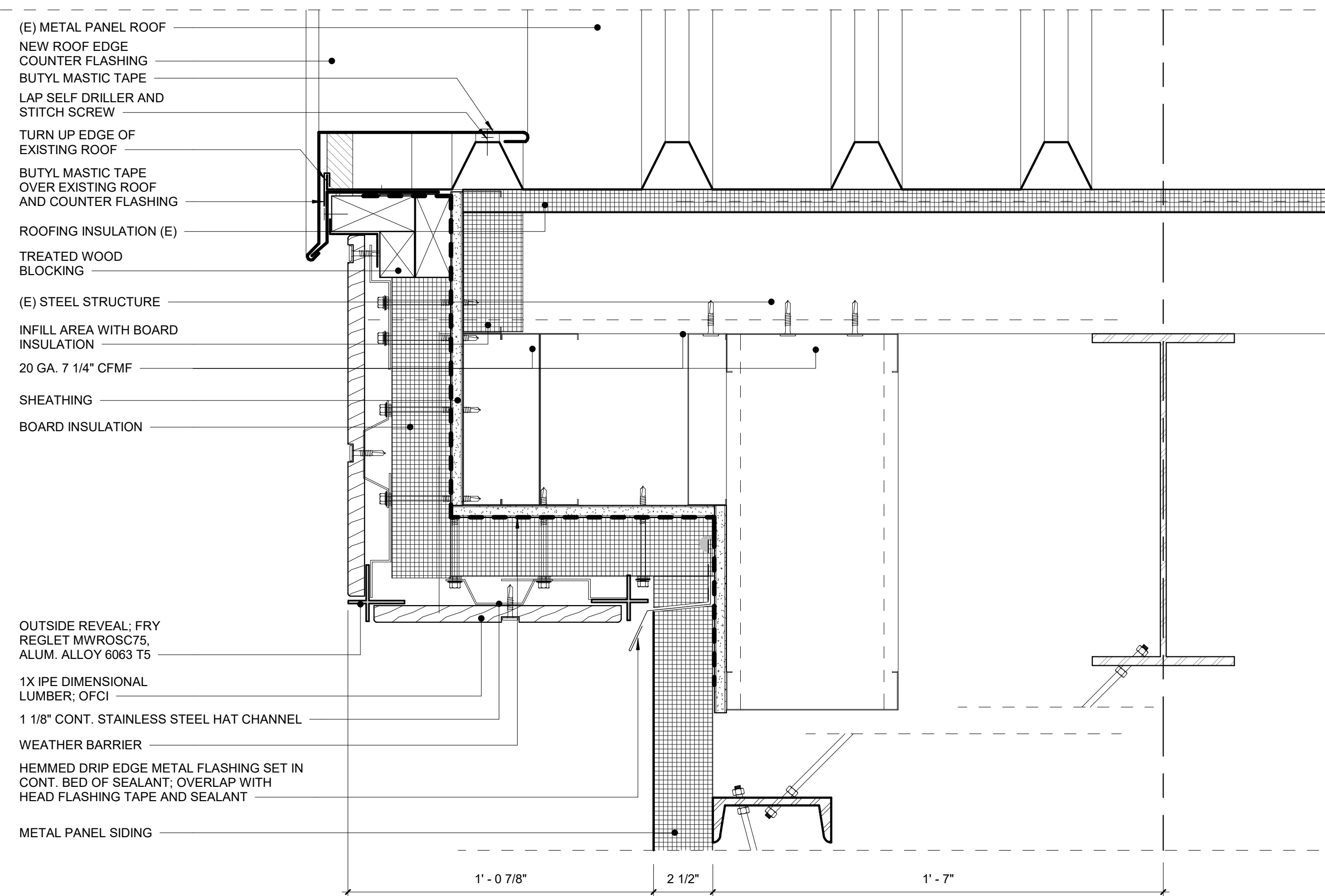
5 SECTION DETAIL - COILING DOOR
3" = 1'-0"



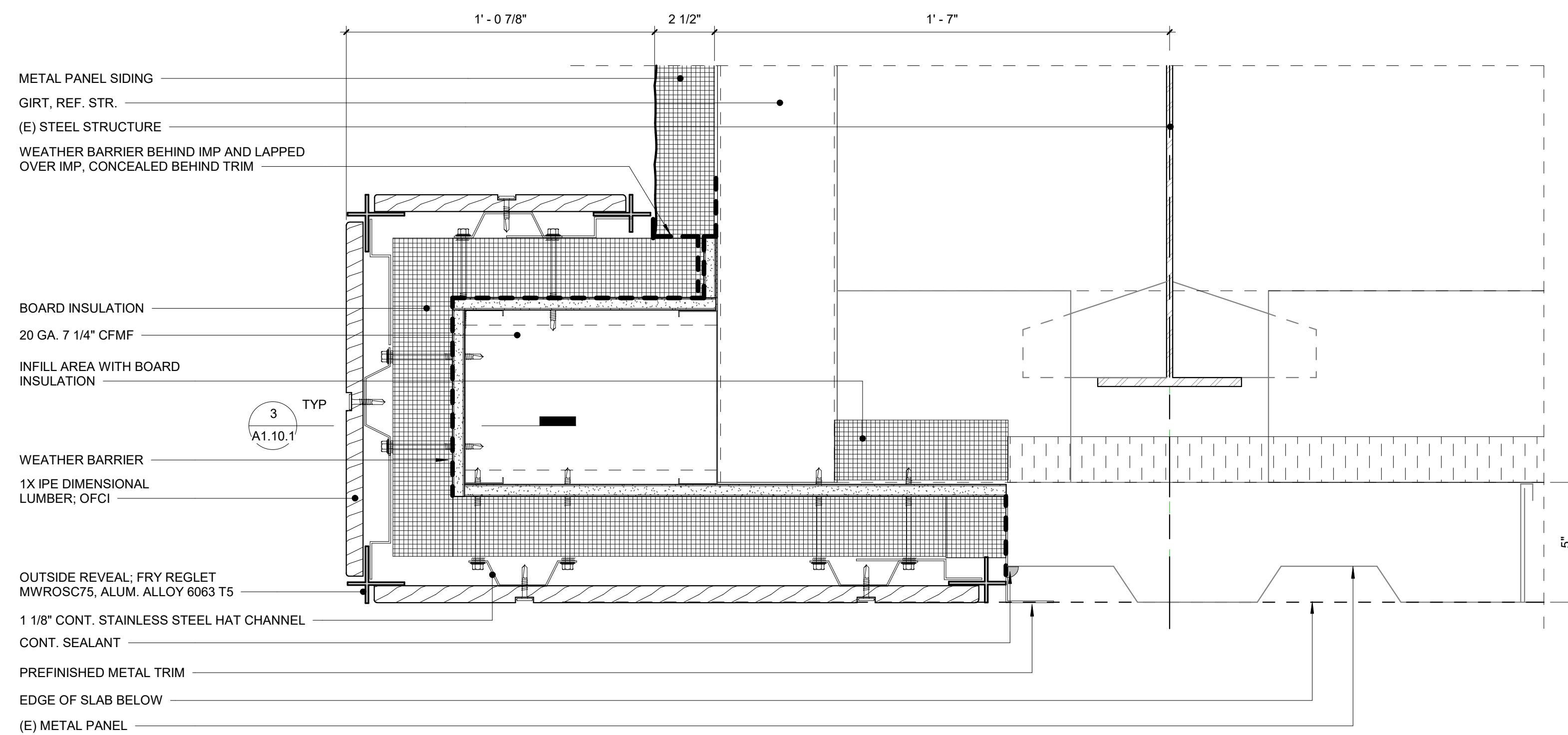
4 SECTION DETAIL - IMP BASE
3" = 1'-0"



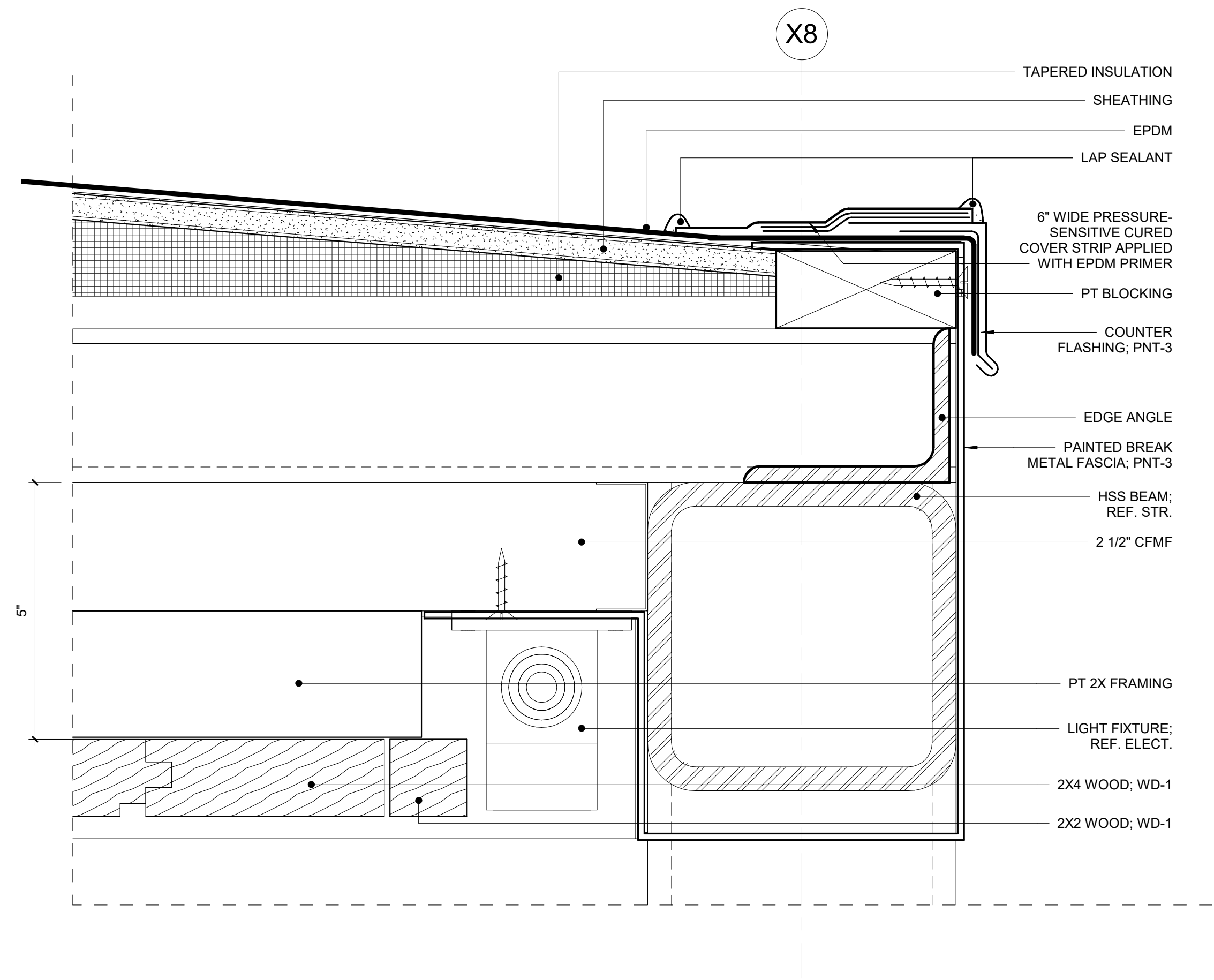
3 SECTION DETAIL - WOOD WALL @ FOUNDATION, TYP.
3" = 1'-0"



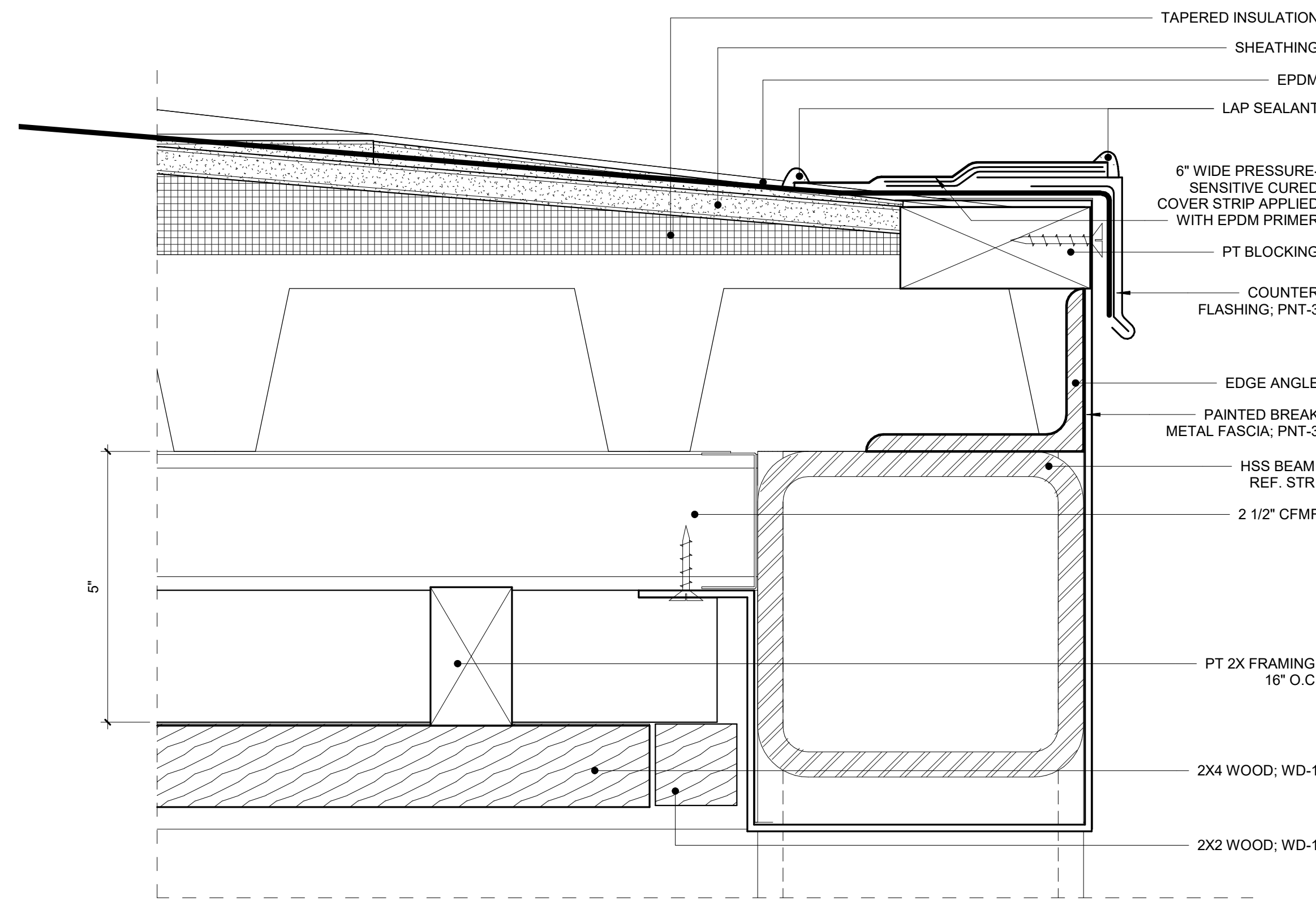
2 SECTION DETAIL - NEW WALL TRIM
3" = 1'-0"



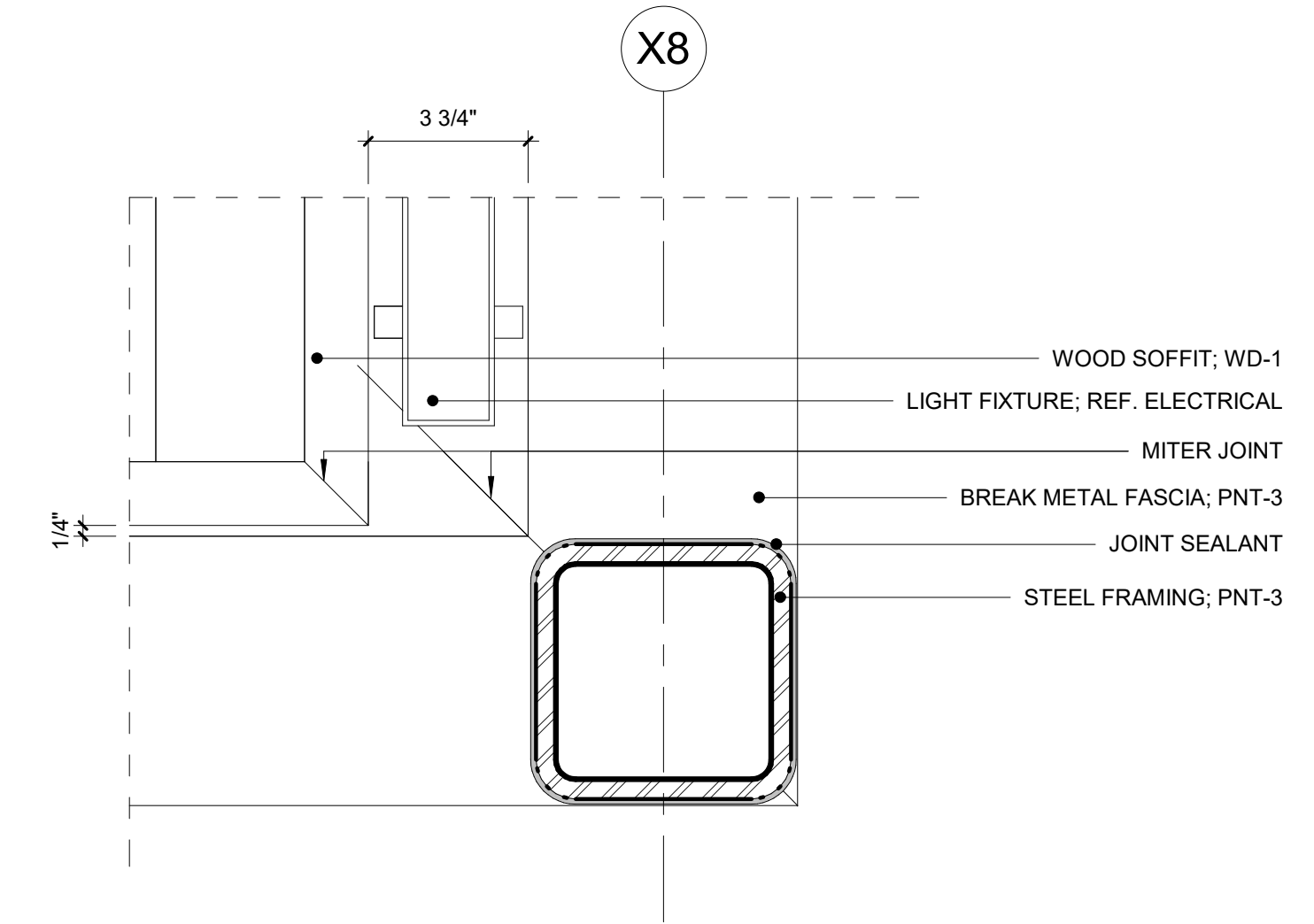
1 PLAN DETAIL - NEW WALL TRIM
3" = 1'-0"



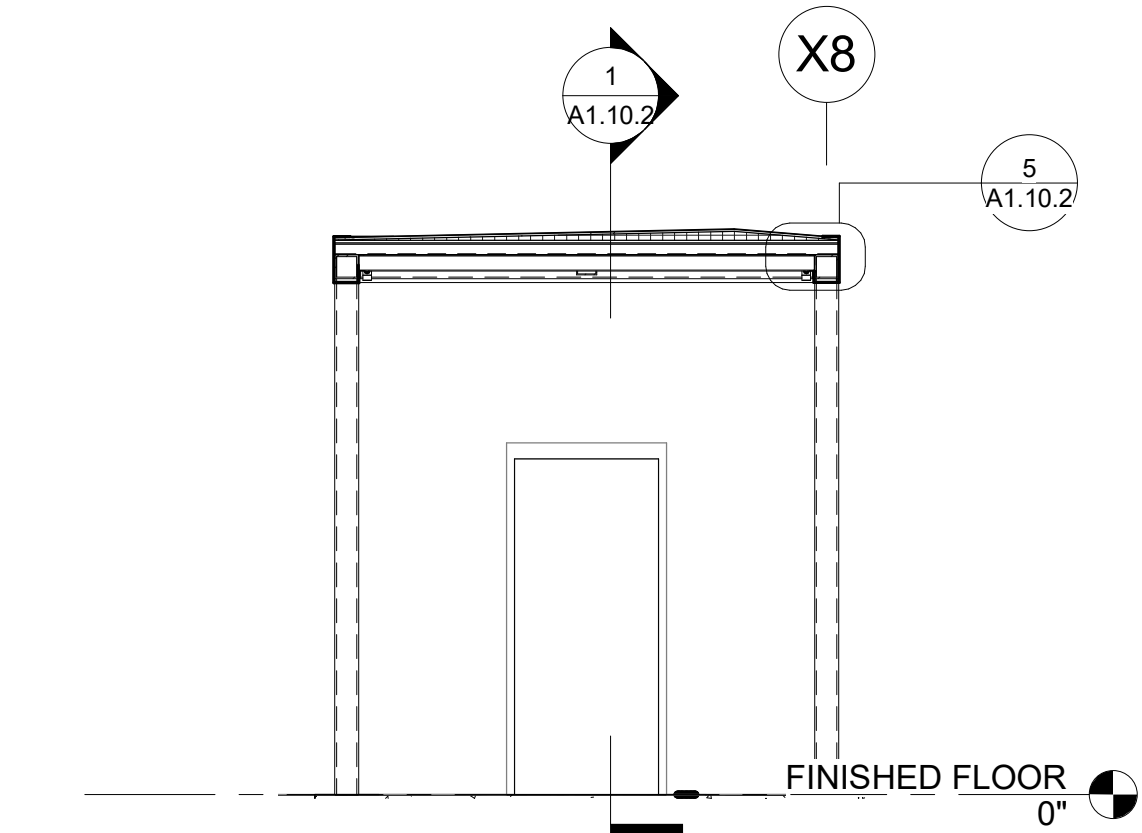
5 SECTION DETAIL - CANOPY N/S
6" = 1'-0"



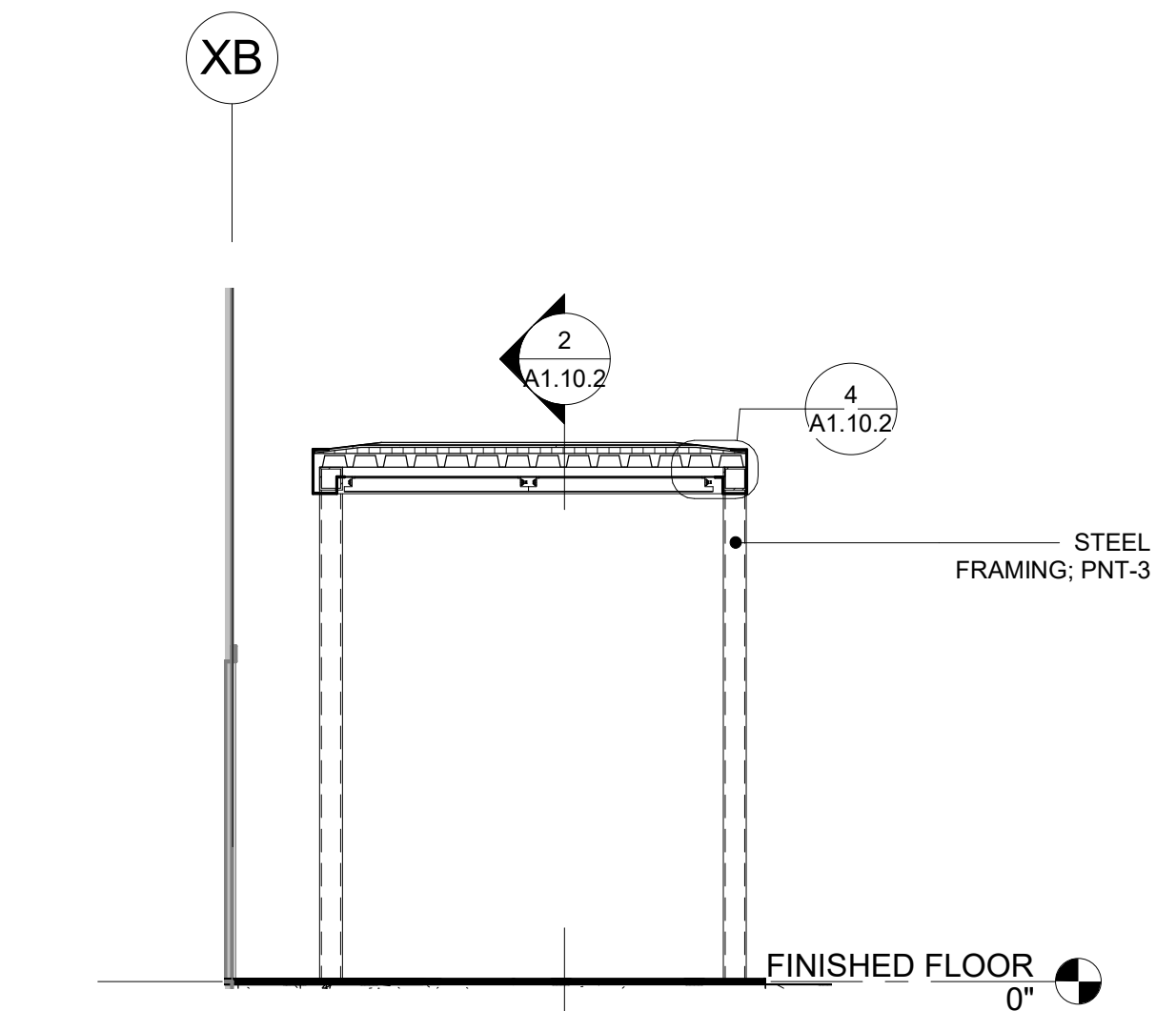
4 SECTION DETAIL - CANOPY E/W
6" = 1'-0"



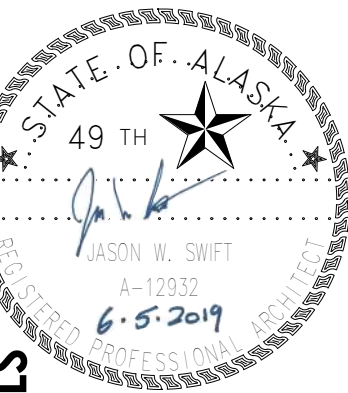
3 REFLECTED CEILING PLAN DETAIL - CANOPY
3" = 1'-0"



2 BUILDING SECTION - CANOPY N/S
1/4" = 1'-0"



1 BUILDING SECTION - CANOPY E/W
1/4" = 1'-0"



CANOPY ELEVATIONS AND DETAILS

AUTHOR: JMS
 REVISION:
 CHECKED: JWS
 ISSUE DATE: 05.31.2019

CITY OF VALDEZ
 WAREHOUSE 1 REMODEL

436 FERRY TERMINAL WAY,
 VALDEZ, AK 99686

CONSTRUCTION DOCUMENTS

ECI ARCHITECTURE DESIGN STRATEGY
 3909 ARCTIC BOULEVARD, SUITE 103
 ANCHORAGE, ALASKA 99503 907.561.5543
 PROJECT NO. 17-0009.01

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GENERAL NOTES

- ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING CODES:
- THE INTERNATIONAL BUILDING CODE (IBC) 2012 AND ITS REFERENCED STANDARDS, HEREIN REFERRED TO AS "THE CODE".
- PRIOR TO FABRICATION AND CONSTRUCTION, THE CONTRACTOR SHALL VERIFY EXISTING ELEVATIONS AND DIMENSIONS ASSOCIATED WITH THE WORK. ALL OMISSIONS OR CONFLICTS BETWEEN VARIOUS ELEMENTS OF THE CONTRACT DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER OF RECORD PRIOR TO PROCEEDING WITH THE RELATED WORK.
- CONTRACTOR SHALL INVESTIGATE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILLED EXCAVATIONS OR BURIED STRUCTURES, SUCH AS FOUNDATIONS, ETC. THE ENGINEER OF RECORD SHALL BE NOTIFIED IMMEDIATELY IF ANY SUCH STRUCTURES ARE FOUND.
- THE STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE METHOD OF CONSTRUCTION. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN LIVE LOADS.
- THESE CONTRACT DRAWINGS WERE PREPARED WITH THE ASSISTANCE OF OWNER PROVIDED INFORMATION. THE CONTRACTOR IS RESPONSIBLE FOR BECOMING COMPLETELY FAMILIAR WITH ALL EXISTING CONDITIONS AND VERIFICATION OF EXISTING CONSTRUCTION, ELEVATIONS, AND DIMENSIONS. IF EXISTING CONDITIONS VARY FROM THE REQUIREMENTS OF THE CONTRACT, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ENGINEER OF RECORD BEFORE WORK STARTS.

STRUCTURAL DESIGN DATA

- LOADS IN ACCORDANCE WITH THE REQUIREMENTS OF THE CODE ARE ALSO IN ACCORDANCE WITH THE MINIMUM REQUIREMENTS OF IBC 2012 AS MODIFIED BY THE CITY OF VALDEZ.

LIVE LOADS:

ROOF 20PSF
OFFICES 50 PSF AND 20 PSF PARTITION

SNOW LOADS: IN ACCORDANCE WITH THE REQUIREMENTS OF THE CODE

$P_g = 160 \text{ lb/ft}^2$
 $P_r = 101 \text{ lb/ft}^2$
 $C_e = .9$
 $C_t = 1.2$
 $I = 1$
 $P_s = 101\text{PSF}$

WIND LOADS: IN ACCORDANCE WITH THE CODE.

BASIC WIND SPEED $V = 137 \text{ MPH}$
WIND IMPORTANCE $I = 1.00$
OCCUPANCY CATEGORY II
WIND EXPOSURE CATEGORY EXPOSURE D
INTERNAL PRESSURE COEFFICIENT... $GC_{pi} = \pm 0.18$

COMPONENT AND CLADDING WIND PRESSURES (PSF)								
ZONE	<25sq. FT		25-100sq. FT		>100sq. FT			
	1	45.1	-41.4	45.1	-41.4	45.1		-41.4
2	67.7	-63.9	67.7	-63.9	45.1	-41.1		
3	90.2	-124.1	67.7	-63.9	45.1	-41.4		
ZONE	10sq. FT		20sq. FT		50sq. FT		100sq. FT	
	4 MAIN WALL	30.8	-34.4	29.4	-32.0	27.6	-30.2	26.2
5 EDGE WALL	30.8	-41.3	29.4	-38.6	27.6	-34.9	26.2	-32.0
ZONE	<36sq. FT		≥36sq. FT					
	1 CANOPY	47.0	-44.0	47.0	-44.0			
2 CANOPY	71.0	-67.0	71.0	-67.0				
3 CANOPY	95.0	-130.0	71.0	-67.0				

COMPONENT & CLADDING ZONES SHALL BE PER FIGURE 30.8-3 IN ASCE 7-10. $a=5\text{ft}$

SEISMIC LOADS: BASED ON THE EQUIVALENT LATERAL FORCE PROCEDURE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CODE.

SEISMIC IMPORTANCE FACTOR $I = 1.0$
OCCUPANCY CATEGORY II
SITE CLASS D
SHORT-PERIOD DESIGN ACCELERATION $S_{Ds} = 1.0g$
1-SECOND DESIGN ACCELERATION $S_{D1} = 0.77g$
SEISMIC DESIGN CATEGORY D

FOUNDATION NOTES

- FOUNDATION DESIGN IS BASED ON THE AS-BUILT INFORMATION PROVIDED BY THE CITY OF VALDEZ.
- FOUNDATIONS & WALLS ARE DESIGNED BASED ON THE FOLLOWING INFORMATION:

ALLOWABLE BEARING PRESSURE*: 3000PSF

COEFFICIENT OF FRICTION $\mu = 0.25$

*VALUES MAY BE INCREASED BY 1/3 FOR WIND OR SEISMIC LOAD CASES

FOOTINGS SHALL BEAR ON FIRM NATURAL SOILS.
- ALL FOOTING SUBGRADES AS REQUIRED AND ALL SLAB SUBGRADES SHALL BE COMPACTED TO 95 PERCENT OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT. ALL BACKFILL AROUND AND ABOVE ALL FOUNDATION ELEMENTS, FOOTINGS, CAPS, MATS, WALLS AND PITS SHALL BE COMPACTED TO 95 PERCENT OF MAXIMUM DENSITY.
- ALL ORGANIC AND/OR OTHER UNSUITABLE MATERIALS SHALL BE REMOVED FROM SUBGRADE AND BACKFILL AREAS AND BACKFILLED WITH ACCEPTABLE GRANULAR FILL, COMPACTED TO 95 PERCENT OF MAXIMUM DENSITY.
- CONTRACTOR SHALL PROVIDE FOR DESIGN AND INSTALLATION OF ALL CRIBBING, SHEATHING AND SHORING REQUIRED AND SHALL BE SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS AND UTILITIES IN ACCORDANCE WITH ALL NATIONAL, STATE AND LOCAL SAFETY ORDINANCES.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY MEASURES TO PREVENT ANY FROST OR ICE FROM PENETRATING ANY FOOTING OR SLAB SUBGRADES BEFORE AND AFTER PLACING OF CONCRETE UNTIL SUCH SUBGRADES ARE FULLY PROTECTED BY THE PERMANENT BUILDING STRUCTURE.
- ALL EXCAVATIONS SHALL BE PROPERLY BACKFILLED. DO NOT PLACE BACKFILL BEHIND RETAINING WALLS BEFORE CONCRETE OR GROUT HAS ATTAINED FULL DESIGN STRENGTH. CONTRACTORS SHALL BRACE OR PROTECT ALL BUILDING AND PIT WALLS BELOW GRADE FROM LATERAL LOADS UNTIL ATTACHING FLOORS ARE COMPLETELY IN PLACE AND HAVE ATTAINED FULL STRENGTH. CONTRACTOR SHALL PROVIDE FOR DESIGN, PERMITS AND INSTALLATION OF SUCH BRACING.
- THE CONCRETE FOR EACH ISOLATED FOOTING SHALL BE PLACED IN ONE (1) CONTINUOUS PLACEMENT.
- NO CONSTRUCTION SHALL COMMENCE UNTIL ALL SEASONAL FROST HAS THAWED OR BEEN REMOVED.

STRUCTURAL CONCRETE NOTES

- ALL CONCRETE CONSTRUCTION SHALL CONFORM TO CHP 19 OF THE CODE AND THE PROVISIONS IN ACI 318.
- SUITABLE CONCRETE MIXES SHALL BE PREPARED BY A QUALIFIED TESTING LABORATORY AND APPROVED BY THE ENGINEER OF RECORD. CONCRETE SPECIFIED BY COMPRESSIVE STRENGTH SHALL BE PROPORTIONED ON THE BASIS DESCRIBED IN 1905.1.1 OF THE CODE.
- SCHEDULE OF CAST-IN-PLACE CONCRETE 28 DAY COMPRESSIVE STRENGTHS AND TYPES:

CONDITION	STRENGTH (PSI)	DENSITY (PCF)	W/C RATIO	AIR ENTRAINMENT
SLAB ON GRADE AND FOOTINGS	4500	150	0.45	4-7%

- PORTLAND CEMENT SHALL CONFORM TO ASTM STANDARD C-150 AND TYPE AS FOLLOWS:
A. TYPE I/III - TYPICAL USE IN WARM/COLD SEASON CONCRETE, RESPECTIVELY.
B. TYPE II/V - FOR USE IN MODERATE/HIGH SULFATE CORROSIVE SOILS.
- AGGREGATE FOR HARD-ROCK CONCRETE (150 PCF) SHALL CONFORM TO THE REQUIREMENTS AND TESTS OF ASTM C-33.
- ALL CONCRETE PERMANENTLY EXPOSED TO THE WEATHER SHALL CONTAIN AN APPROVED AIR-ENTRAINING ADMIXTURE IN CONFORMANCE WITH ASTM C-260.
- ALL REINFORCING BARS SHALL BE DEFORMED BAR CONFORMING TO THE STANDARDS OF ASTM A615, GRADE 60.
- WHERE INDICATED ON PLANS, ALL WELDED WIRE FABRIC SHALL CONFORM TO THE STANDARDS OF ASTM A185. A MINIMUM 8 INCH LAP SHALL BE PROVIDED FOR SIDE AND END LAPS. WELDED WIRE FABRIC SHALL BE SUPPORTED ON APPROVED CHAIRS.
- ALL CONCRETE REINFORCEMENT SHALL BE DETAILED, FABRICATED, LABELED, SUPPORTED AND SPACED IN FORMS AND SECURED IN PLACE IN ACCORDANCE WITH THE PROCEDURES AND REQUIREMENTS OF THE LATEST EDITION OF CHP 19 OF THE CODE, ACI 318 AND THE "ACI DETAILING MANUAL: DETAILS AND DETAILING CONCRETE REINFORCEMENT", ACI 315.

- CHECKED SHOP DRAWINGS SHOWING REINFORCING DETAILS, INCLUDING STEEL SIZES, SPACING AND PLACEMENT SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW PRIOR TO FABRICATION.
- REINFORCING BAR SPLICES SHALL BE MADE AS INDICATED ON THE DRAWINGS. LAP ALL HORIZONTAL BARS AT CORNERS AND INTERSECTIONS. STAGGER ALL SPLICES UNLESS NOTED OTHERWISE ON PLANS.
- DESIGN, REMOVAL AND RESHORING OF FORMWORK SHALL BE IN ACCORDANCE WITH ACI 318, CHP 6.
- WHERE REQUIRED, DOWELS SHALL MATCH SIZE AND NUMBER OF MAIN REINFORCING.
- MAXIMUM SLUMP SHALL BE 4 INCHES, UNO.
- MINIMUM CONCRETE COVER SHALL BE:
a. 3" FOR CONCRETE CAST AGAINST THE EARTH.
b. 1 1/2" FOR BARS EXPOSED TO WEATHER AND BEAMS AND COLUMNS.
c. 3/4" FOR SLABS.
- FOR COLD-WEATHER PLACEMENT (WHEN TEMPERATURE IS EXPECTED TO FALL BELOW 40 DEGREES F FOR THREE CONSECUTIVE DAYS), COMPLY WITH ACI 306.1 DO NOT USE FROZEN MATERIALS, MATERIALS CONTAINING ICE OR SNOW, OR CALCIUM CHLORIDE, SALT, OR OTHER MATERIALS CONTAINING ANTIFREEZE AGENTS OR CHEMICAL ACCELERATORS. A TEMPERATURE OF 50 DEGREES F MUST BE MAINTAINED DURING CURING VIA USE OF TENTING OR OTHER ACCEPTABLE ENCLOSURES. CONCRETE (OTHER THAN HIGH-EARLY-STRENGTH) SHALL BE MAINTAINED ABOVE 50 DEGREES F AND IN A MOIST CONDITION FOR FOR AT LEAST THE FIRST 7 DAYS AFTER PLACEMENT. HIGH-EARLY-STRENGTH CONCRETE SHALL BE MAINTAINED ABOVE 50 DEGREES F AND IN A MOIST CONDITION FOR AT LEAST THE FIRST 3 DAYS.

STRUCTURAL STEEL NOTES

- ALL STRUCTURAL STEEL SHALL BE CONSISTENT WITH THE FOLLOWING STANDARDS:
STRUCTURAL WF (Fy=50ksi) ASTM A992
STRUCTURAL HSS TUBES (FY=46KSI) ASTM A500, GRADE C
STRUCTURAL STEEL PIPE (FY=35KSI) ASTM A53, GRADE B
STEEL PLATES, ANGLES, CHANNELS & MISC (FY=36KSI) ASTM A36
- ALL VISIBLE STRUCTURAL STEEL SHALL BE AN ARCHITECTURALLY EXPOSED STEEL FEATURE ELEMENT.
- ALL BOLTS, NUTS AND WASHERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A325 OR A490. ALL BOLTS SHALL BE 3/4 INCH DIAMETER, UNO.
- ALL WELDING ELECTRODES SHALL BE E70XX.
- ALL DETAILING, FABRICATION AND ERECTION SHALL CONFORM TO AISC SPECIFICATIONS AND CODES, LATEST EDITION.
- ALL WELDING SHALL BE DONE BY QUALIFIED WELDERS AND SHALL CONFORM TO THE AWS "D1.1 STRUCTURAL WELDING CODE-STEEL", LATEST EDITION.
- THE FABRICATOR/ERECTOR SHALL SUBMIT TO THE ENGINEER, FOR REVIEW, ENGINEERED AND CHECKED DRAWINGS SHOWING SHOP FABRICATION DETAILS, FIELD ASSEMBLY DETAILS AND ERECTION DIAGRAMS FOR ALL STRUCTURAL STEEL.
- ALL CONNECTIONS SHALL BE SIMPLE SHEAR CONNECTIONS USING HIGH-STRENGTH BOLTS IN BEARING TYPE CONNECTIONS WITH THREADS EXCLUDED FROM THE SHEAR PLANE IN SINGLE SHEAR, UNO.
- WHERE BOLTED CONNECTION ARE NOT REQUIRED BY DESIGN THE CONTRACTOR SHALL PROVIDE A MINIMUM OF (2) BOLTS PER CONNECTION.
- ALL BEAMS, JOISTS AND TRUSSES SHALL BE FABRICATED AND ERECTED WITH THE REQUIRED CAMBER UP. PROVIDE CAMBERS AS INDICATED ON THE DRAWINGS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF ALL ERECTION PROCEDURES AND SEQUENCES WITH RELATION TO TEMPERATURE DIFFERENTIALS, ESPECIALLY WITH RESPECT TO STRUCTURAL STEEL FRAMING INTO CONCRETE WALLS, BEAMS OR COLUMNS.
- THERE SHALL BE NO FIELD CUTTING OF STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES WITHOUT PRIOR APPROVAL OF THE ENGINEER OF RECORD.
- STEEL PAINTING: ALL STEEL SHALL BE CLEANED BY METHODS COMPLYING WITH THE STEEL STRUCTURES PAINTING COUNCIL. REMOVE OIL, GREASE, AND SIMILAR CONTAMINANTS. EXCEPT FOR MEMBERS TO BE WELDED, APPLY STRUCTURAL STEEL PRIMER PAINT IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS AT A RATE TO PROVIDE A UNIFORM DRY FILM THICKNESS OF 2.0 MILS. AFTER FINAL STEEL INSTALLATION, WIRE BRUSH EXPOSED STEEL SURFACES AND CLEAN WITH SOLVENTS BEFORE TOUCH-UP PAINTING. TOUCH-UP PAINT SHALL BE THE SAME AS SHOP PAINT. SEE ARCHITECTURAL FOR STEEL FINISH PAINT SYSTEM.
- ALL EXTERIOR STEEL SHALL BE HOT DIPPED GALVANIZED.
- ALL ANCHOR RODS SHALL BE F1554 GRADE 36.

- ALL EXTERIOR BOLTS SHALL BE HOT DIPPED GALVANIZED UNO.
- THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF ALL STEEL MEMBERS, PLATES AND CONNECTION HARDWARE INCLUDING COATING. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
- ALL STEEL FABRICATED OFF SITE SHALL BE FABRICATED BY A QUALIFIED FABRICATOR THAT PARTICIPATES IN THE AISC QUALITY CERTIFICATION PROGRAM AND IS DESIGNATED AN AISC-CERTIFIED PLANT, CATEGORY STD.

POST-INSTALLED CONCRETE ANCHOR NOTES

- THE SPECIFIC MANUFACTURER, SIZE AND EMBEDMENT OF POST-INSTALLED ANCHORS SHALL BE PROVIDED AS INDICATED ON THE PLANS. ANY SUBSTITUTION OF BRAND, TYPE OR SIZE SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL.
- ALL POST-INSTALLED ANCHORS SHALL MEET MINIMUM EMBEDMENT, EDGE DISTANCE AND SPACING REQUIREMENTS AS DIRECTED IN THE APPLICABLE ICC-ES REPORT.
- WHEN PLACING EXPANSION ANCHORS IN EXISTING CAST-IN-PLACE STRUCTURAL CONCRETE OR CMU (DECKS, COLUMNS, WALLS, ETC.) THE CONTRACTOR SHOULD USE CAUTION TO NOT CUT OR DAMAGE EXISTING REINFORCING STEEL.
- THE CONTRACTOR MAY NOT SUBSTITUTE CAST-IN-PLACE BOLTS AND RODS WITH POST-INSTALLED ANCHORS WITHOUT PRIOR APPROVAL FROM THE ENGINEER OF RECORD.
- USE HOT-DIPPED GALVANIZED OR STAINLESS ANCHORS WHEN EXPOSED TO EXTERIOR OR DAMP CONDITIONS, IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
- ANCHORS SHALL BE INSTALLED AND TESTED IN ACCORDANCE WITH THE CODE SECTION 1704.15 AND THE APPLICABLE ICC-ES REPORT.
- ALL TESTING IS TO BE DONE IN THE PRESENCE OF THE PROJECT INSPECTOR OF RECORD.

ARCHITECTURAL, MECHANICAL, AND ELECTRICAL COMPONENTS

- ALL COMPONENTS SHALL BE ANCHORED TO THE BUILDING STRUCTURE. ANCHORAGE SHALL BE DESIGNED FOR ALL DESIGN CASES, INCLUDING SEISMIC, BY THE CONTRACTORS ENGINEER AND SUBMITTED TO THE ENGINEER FOR APPROVAL. DRAWINGS AND CALCULATIONS SHALL BE SEALED BY A REGISTERED ENGINEER IN THE STATE OF ALASKA.

ABBREVIATIONS

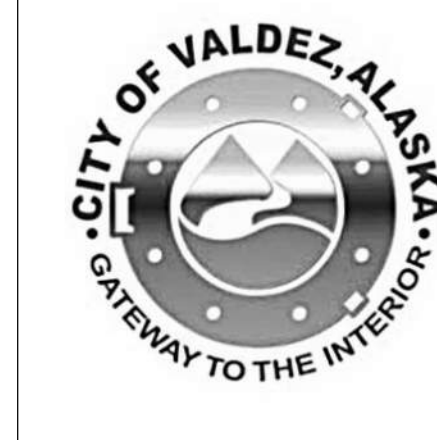
& AND
ACI AMERICAN CONCRETE INSTITUTE
AESS ARCHITECTURALLY EXPOSED STRUCTURAL STEEL
AISC AMERICAN INSTITUTE OF STEEL CONST.
ARCH ARCHITECTURAL
ASCE AMERICAN SOCIETY OF CIVIL ENGINEERS
ASTM AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWS AMERICAN WELDING SOCIETY
CHP CHAPTER
CMU CONCRETE MASONRY UNIT
DEMO DEMOLISH
DIA/DIAM/Ø DIAMETER
(E) EXISTING
ETC ET CETERA
FF FINISH FLOOR
FT FOOT/FEET
H/HORIZ HORIZONTAL
HSS HOLLOW STRUCTURAL SECTION
IBC INTERNATIONAL BUILDING CODE
K KIP (1000 LB)
KSI KIPS PER SQUARE INCH
LB POUND
MIL ONE THOUSANDTH OF AN INCH
MISC MISCELLANEOUS
MIN MINIMUM
MPH MILES PER HOUR
OC ON CENTER
OPP OPPOSITE HAND
PCF POUNDS PER CUBIC FOOT
PEMB PRE-ENGINEERED METAL BUILDING
PSF POUNDS PER SQUARE FOOT
PSI POUNDS PER SQUARE INCH
QTY QUANTITY
SIM SIMILAR
STD STANDARD
SQ SQUARE
TOC TOP OF CONCRETE
TOS TOP OF STEEL
TYP TYPICAL
UNO UNLESS NOTED OTHERWISE
V VERTICAL
WF WIDE FLANGE

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PROJECT NO. 17-0009.01

CITY OF VALDEZ
WAREHOUSE 1 REMODEL
436 S HAZELT
VALDEZ, AK 99686
CONSTRUCTION DOCUMENTS



GENERAL NOTES
AUTHOR: DJM
REVISION:
ISSUE DATE: 06.04.2019
CHECKED: AKM

SPECIAL INSPECTION PROGRAM

1. THE OWNER SHALL RETAIN THIRD-PARTY QUALITY ASSURANCE AGENCIES TO CONDUCT SPECIAL INSPECTIONS.
2. THE INSPECTING AGENCY SHALL PROVIDE REPORTS OF THE SPECIAL INSPECTIONS DIRECTLY TO THE OWNER'S REPRESENTATIVE.
3. SPECIAL INSPECTION REQUIREMENTS:

2012 - TABLE 1 STEEL- SPECIAL INSPECTION SCHEDULE				
REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION				
REQUIRED VERIFICATION AND INSPECTION	QA	QC	REFERENCE STANDARD *	IBC REFERENCE
1. INSPECTION TASKS PRIOR TO WELDING				
A. WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE	P	P	AISC 360, SECTION A3.3 - TABLE N5.4-1	1705.2
B. MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	P	P		
C. MATERIAL IDENTIFICATION (TYPE / GRADE)	O	O		
D. WELDER IDENTIFICATION SYSTEM	O	O		
E. FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY)	O	O		
F. CONFIGURATION AND FINISH OF ACCESS HOLE	O	O		
G. FIT-UP OF FILLET WELDS	O	O		
H. CHECK WELDING EQUIPMENT	O	-		
2. INSPECTION TASKS DURING WELDING				
A. USE OF QUALIFIED WELDERS	O	O	AISC 360, SECTION A3.3 - TABLE N5.4-2	1705.2
B. CONTROL AND HANDLING OF WELDING CONSUMABLES	O	O		
C. ENVIRONMENTAL CONDITIONS	O	O		
D. WPS FOLLOWED	O	O		
E. WELDING TECHNIQUES	O	O		
3. INSPECTION TASKS AFTER WELDING				
A. WELDS CLEANED	O	O	AISC 360, SECTION A3.3 - TABLE N5.4-3	1705.2
B. SIZE, LENGTH AND LOCATION OF WELDS	P	P		
C. WELDS MEET VISUAL ACCEPTANCE CRITERIA	P	P		
D. ARC STRIKES	P	P		
E. K-AREA	P	P		
F. BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	P	P		
G. REPAIR ACTIVITIES	P	P		
H. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	P	P		
4. INSPECTION TASKS PRIOR TO BOLTING				
A. MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	O	P	AISC 360, SECTION A3.3 - TABLE N5.6-1	1705.2
B. FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	O	O		
C. PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)	O	O		
D. PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	O	O		
E. CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	O	O		
F. PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	P	O		
G. PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS	O	O		
5. INSPECTION TASKS DURING BOLTING				
A. FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED	O	O	AISC 360, SECTION A3.3 - TABLE N5.6-2	1705.2
B. JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION	O	O		
C. FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	O	O		
D. FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES	O	O		
6. INSPECTION TASKS AFTER BOLTING				
A. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	P	P	AISC 360, SECTION A3.3 - TABLE N5.6-3	1705.2

QC - QUALITY CONTROL SHALL BE PROVIDED BY THE FABRICATOR AND ERECTOR PER AISC 360-10 N.1
 QA - QUALITY ASSURANCE SHALL BE PROVIDED BY OTHERS WHEN REQUIRED BY THE AUTHORITY HAVING JURISDICTION, BUILDING CODE, PURCHASER, OWNER, OR ENGINEER OF RECORD PER AISC 360-10 N.1
 O - OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS
 P - PERFORM THESE TASKS FOR EACH JOINT OR MEMBER
 D - DOCUMENT

2012 - TABLE 2 CONCRETE - SPECIAL INSPECTION SCHEDULE				
REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION				
VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCE STANDARD *	IBC REFERENCE
1. INSPECTION OF REINFORCING STEEL AND PLACEMENT.	-	X	ACI 318 3.5: 7.1-7.7	1910.4
2. INSPECTION OF BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE.	X	-	AISC 318: 8.13, 21.2.8	1908.5, 1909.1
3. VERIFYING USE OF REQUIRED DESIGN MIX	-	X	ACI 318: CH.4: 5.2-5.4	1904.2, 1910.2, 1910.3
4. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	-	ASTM C 172, ASTM C 31, ACI 318: 5.6; 5.8	1910.10
5. INSPECTION OF CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	-	ACI 318: 5.9, 5.10	1910.6, 1910.7, 1910.8
6. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	-	X	ACI 318: 5.11-5.13	1910.9
7. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBERS BEING FORMED.	-	X	ACI 318: 6.1. 1	-
8. DRILLED-IN CONCRETE ANCHORS (DICA) INSPECTED IN ACCORDANCE WITH MANUFACTURER'S ESR REPORT FOR THE PRODUCT.				
9. EPOXY ADHESIVE INSPECTED IN ACCORDANCE WITH MANUFACTURER'S ESR REPORT FOR THE PRODUCT.				

(*) WHERE APPLICABLE, SEE TABLE 3 OF THIS SHEET AND SECTION 1707, SPECIAL INSPECTION FOR SEISMIC RESISTANCE

2012 - TABLE 3 SEISMIC - SPECIAL INSPECTION SCHEDULE						
SPECIAL INSPECTION FOR SEISMIC RESISTANCE						
VERIFICATION AND INSPECTION	QC		QA		REFERENCE STANDARD	IBC REFERENCE
	TASK	DOC	TASK	DOC		
1. VISUAL INSPECTION TASKS PRIOR TO WELDING						
A. MATERIAL IDENTIFICATION (TYPE/GRADE)	O	-	O	-	AWS D1.1 AND D1.8, AISC 341 TABLE J6-1	1705.11
B. WELDER IDENTIFICATION SYSTEM	O	-	O	-		
C. FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY)	P/O	-	O	-		
D. CONFIGURATION AND FINISH OF ACCESS HOLES	O	-	O	-		
E. FIT-UP OF FILLET WELDS	P/O	-	O	-		
2. VISUAL INSPECTION TASKS DURING WELDING						
A. WPS FOLLOWED	O	-	O	-	AWS D1.1 AND D1.8, AISC 341 TABLE J6-2	1705.11
B. USE OF QUALIFIED WELDERS	O	-	O	-		
C. CONTROL AND HANDLING OF WELDING CONSUMABLES	O	-	O	-		
D. ENVIRONMENTAL CONDITIONS	O	-	O	-		
E. WELDING TECHNIQUES	O	-	O	-		
F. NO WELDING OVER CRACKED TACKS	O	-	O	-		
3. VISUAL INSPECTION TASKS AFTER WELDING						
A. WELDS CLEANED	O	-	O	-	AWS D1.1 AND D1.8, AISC 341 TABLE J6-3	1705.11
B. SIZE, LENGTH AND LOCATION OF WELDS	P	-	P	-		
C. WELDS MEET VISUAL ACCEPTANCE CRITERIA	P	D	P	D		
D. PLACEMENT OF REINFORCING OR CONTOURING FILLET WELDS (IF REQUIRED)	P	D	P	D		
E. BACKING REMOVED, WELD TABS REMOVED AND FINISHED, AND FILLET WELDS ADDED (IF REQUIRED)	P	D	P	D		
F. REPAIR ACTIVITIES	P	-	P	D		
4. INSPECTION TASKS PRIOR TO BOLTING						
A. PROPER FASTENERS SELECTED FOR THE JOINT DETAIL	O	-	O	-	AISC 341 TABLE J7-1	1705.11
B. PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	O	-	O	-		
C. CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	O	-	O	-		
D. PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED FOR FASTENER ASSEMBLIES AND METHODS USED	P	D	O	-		
E. PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS	O	-	O	-		
5. INSPECTION TASKS DURING BOLTING						
A. FASTENER ASSEMBLIES PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED	O	-	O	-	AISC 341 TABLE J7-2	1705.11
B. JOINT BROUGHT TO THE SNUG TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION	O	-	O	-		
C. FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	O	-	O	-		
D. BOLTS ARE PRETENSIONED PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES	O	-	O	-		
6. INSPECTION TASKS AFTER BOLTING						
A. DOCUMENT ACCEPTED AND REJECTED CONNECTIONS	P	D	P	D	AISC 341 TABLE J7-3	1705.11

2012 - TABLE 4 SOILS - SPECIAL INSPECTION SCHEDULE				
REQUIRED VERIFICATION AND INSPECTION OF SOILS				
VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCE STANDARD	IBC REFERENCE
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	-	X	-	1705.6
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	-	X	-	1705.6
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	-	X	-	1705.6
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	-	-	1705.6

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 PROJECT NO. 17-0009.01

CITY OF VALDEZ

WAREHOUSE 1 REMODEL

436 S HAZELT
 VALDEZ, AK 99686

CONSTRUCTION DOCUMENTS



SPECIAL INSPECTIONS

AUTHOR: DJM CHECKED: AKM

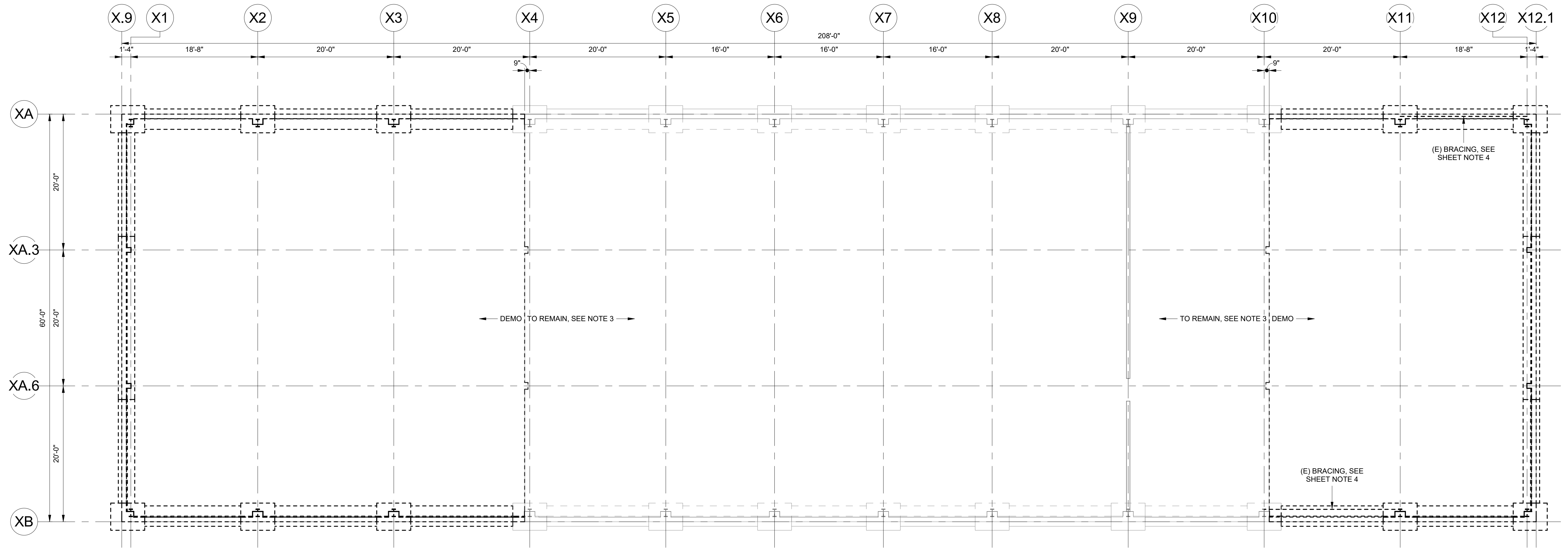
REVISION: ISSUE DATE: 06.04.2019

S0.02

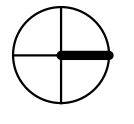
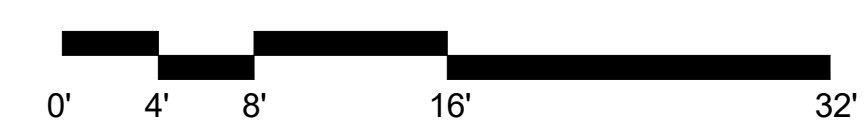
FULL SIZE PRINTED ON 22 x 34

SHEET NOTES

1. THE FIRST FLOOR REFERENCE ELEVATION IS 0'-0". THE TOP OF CONCRETE OF THE FIRST FLOOR CONCRETE SLAB-ON-GRADE IS AT THE REFERENCE ELEVATION, UNLESS NOTED OTHERWISE.
2. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS.
3. CONTRACTOR SHALL LEAVE EXISTING TENSION TIES AND ALL COVER CONCRETE IN PLACE.
4. BRACING TO BE REMOVED FOR REUSE.



① FOUNDATION AND SLAB DEMO PLAN
1/8" = 1'-0"



FOUNDATION DEMO PLAN

AUTHOR: DJM
REVISION:
ISSUE DATE: 06.04.2019
CHECKED: AKM

S1.01

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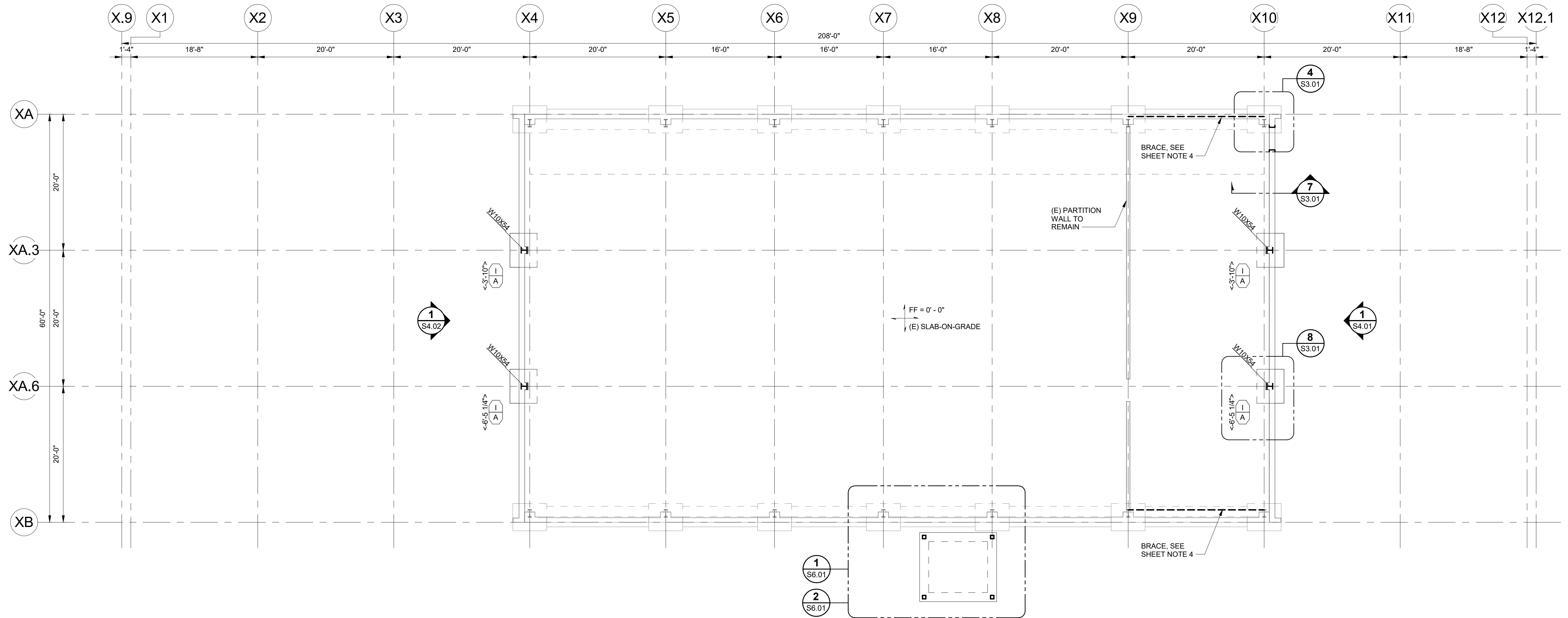
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FOOTING SCHEDULE											
TYPE	DIMENSIONS			REINFORCEMENT							
	LENGTH (L)	WIDTH (W)	THICKNESS (T)	BOTTOM				TOP			
				LONGITUDINAL	TRANSVERSE	LONGITUDINAL	TRANSVERSE	LONGITUDINAL	TRANSVERSE	LONGITUDINAL	TRANSVERSE
QTY	SIZE	QTY	SIZE	QTY	SIZE	QTY	SIZE	QTY	SIZE	QTY	SIZE
A	5'-0"	4'-0"	1'-4"	(6)	#5	(6)	#5	(6)	#5	(6)	#5

PILASTER SCHEDULE								
TYPE	DIMENSIONS			TIES		LONGITUDINAL		REMARKS
	WIDTH	DEPTH	QTY	SIZE	QTY	SIZE		
							VARIES	
I	1'-4"	1'-0"						SEE 8/S0.03

SHEET NOTES

1. THE FIRST FLOOR REFERENCE ELEVATION IS 0'-0". THE TOP OF CONCRETE OF THE FIRST FLOOR CONCRETE SLAB-ON-GRADE IS AT THE REFERENCE ELEVATION, UNLESS NOTED OTHERWISE.
2. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS.
3. WHERE EXISTING SLAB IS UNDERMINED FOR NEW FOOTING, FILL VOID WITH GROUT.
4. REINSTALL EXISTING WALL AND ROOF BRACES FROM ALTERNATE DEMOLISHED BAYS.

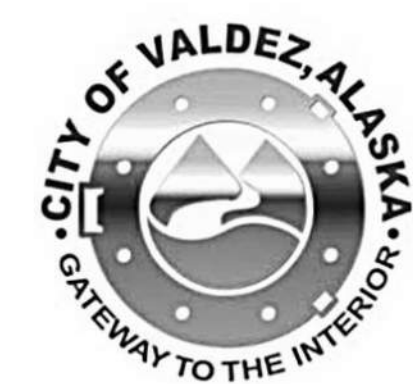


1 FOUNDATION AND SLAB PLAN
1/8" = 1'-0"



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FOUNDATION PLAN
 AUTHOR: DJM
 REVISION:
 ISSUE DATE: 06.04.2019
 CHECKED: AKM

S2.01

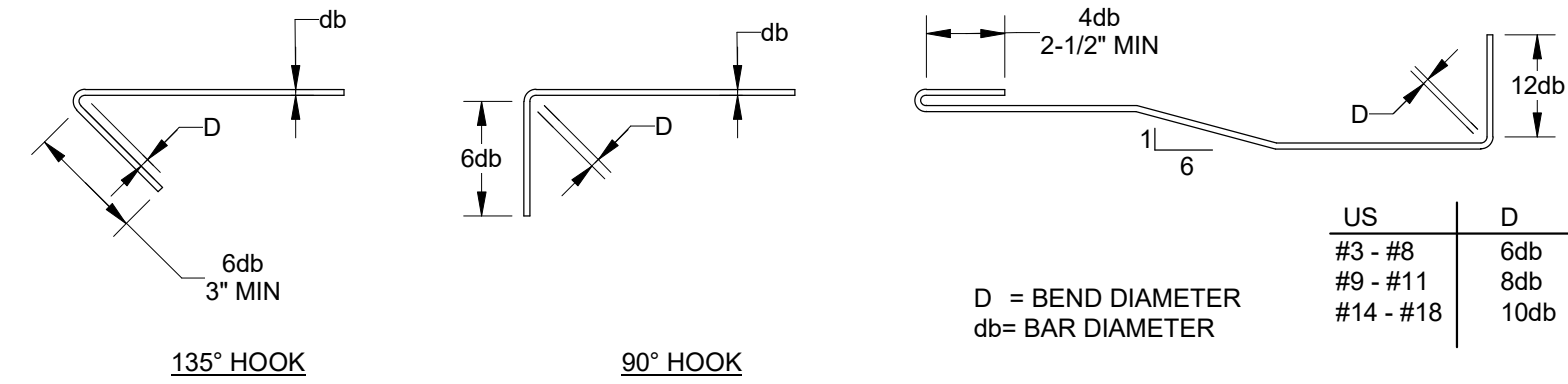
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FC (PSI)	CLASS "B" TENSION LAP SPLICE									
	BAR SIZE (GR 60)	3	4	5	6	7	8	9	10	11
4500	BAR DIAMETER (IN)	0.375	0.5	0.625	0.75	0.875	1	1.128	1.27	1.41
	TOP BAR	23	31	38	46	53	61	69	77	86
	BOTTOM BAR	18	24	29	35	41	47	53	60	66

SCHEDULE NOTES:

- REINFORCEMENT CLEAR SPACING OF THE BARS BEING DEVELOPED OR SPLICED IS NOT LESS THAN ONE BAR DIAMETER, CLEAR COVER IS NOT LESS THAN ONE BAR DIAMETER AND STIRRUPS ARE PLACED CONTINUOUSLY THROUGHOUT SPLICE LENGTH.
- THE ABOVE VALUES ARE EXPRESSED FOR NORMAL-WEIGHT CONCRETE ONLY.
- THE ABOVE VALUES RELATE ONLY TO PLAIN (UNCOATED) DEFORMED REINFORCING.
- TOP BARS ARE HORIZONTAL REINFORCEMENT WITH MORE THAN 12" OF NEW CONCRETE PLACED MONOLITHICALLY BELOW BAR.
- BOTTOM BARS ARE HORIZONTAL REINFORCEMENT WITH LESS THAN 12" OF NEW CONCRETE PLACED BELOW BAR.

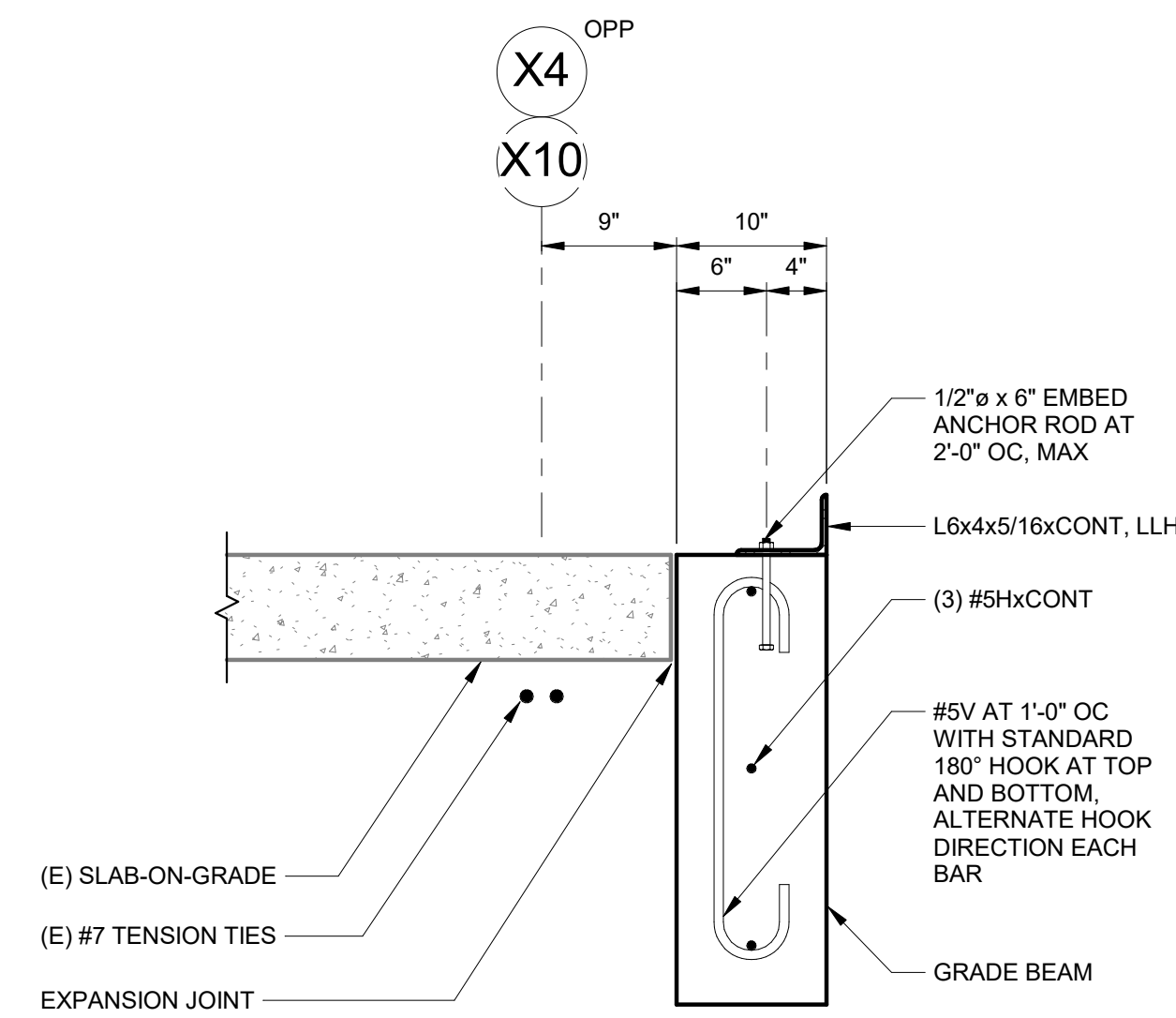
1 TYPICAL LAP SPLICE SCHEDULES
12" = 1'-0"



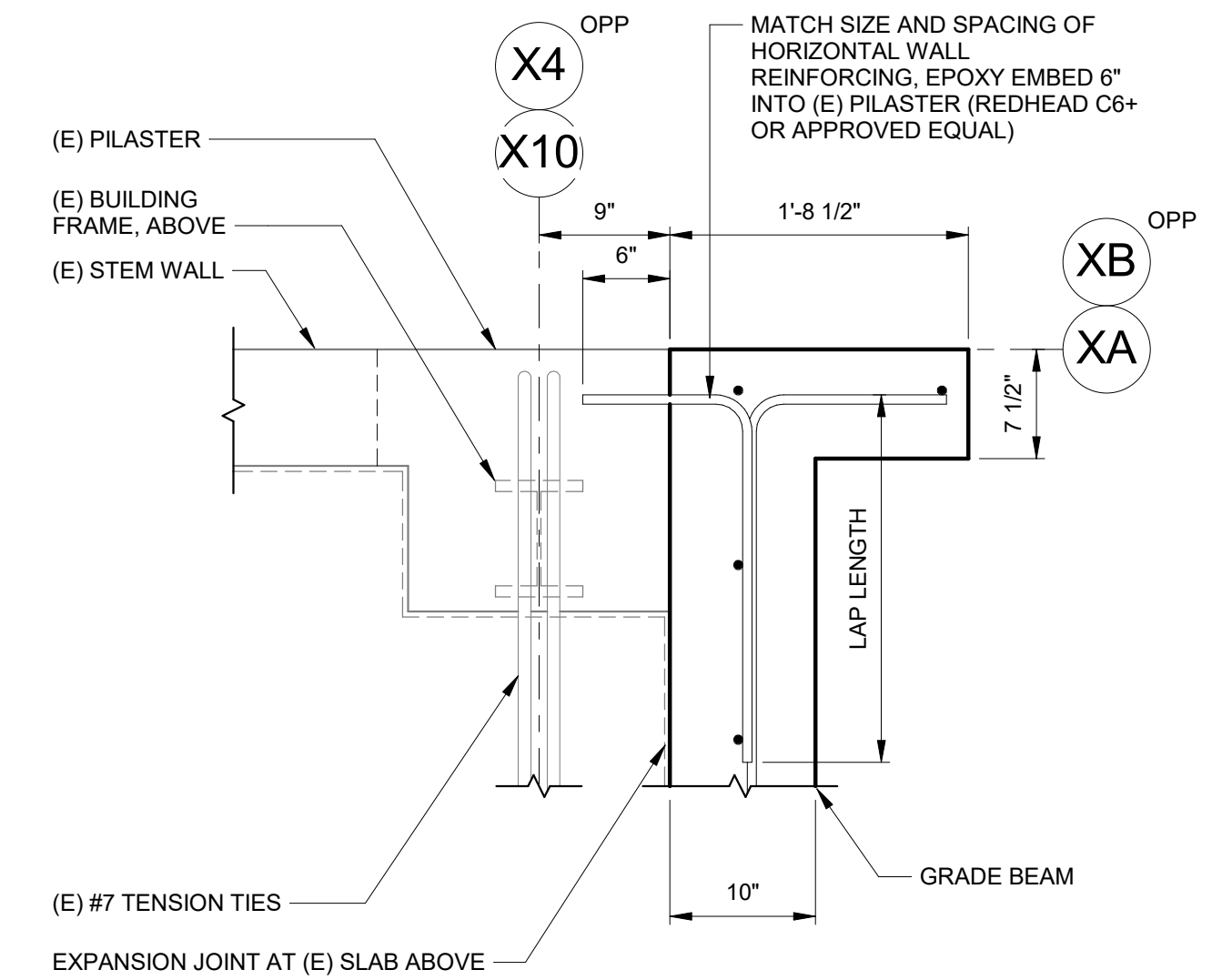
TIE AND STIRRUP REINF

STANDARD HOOKS

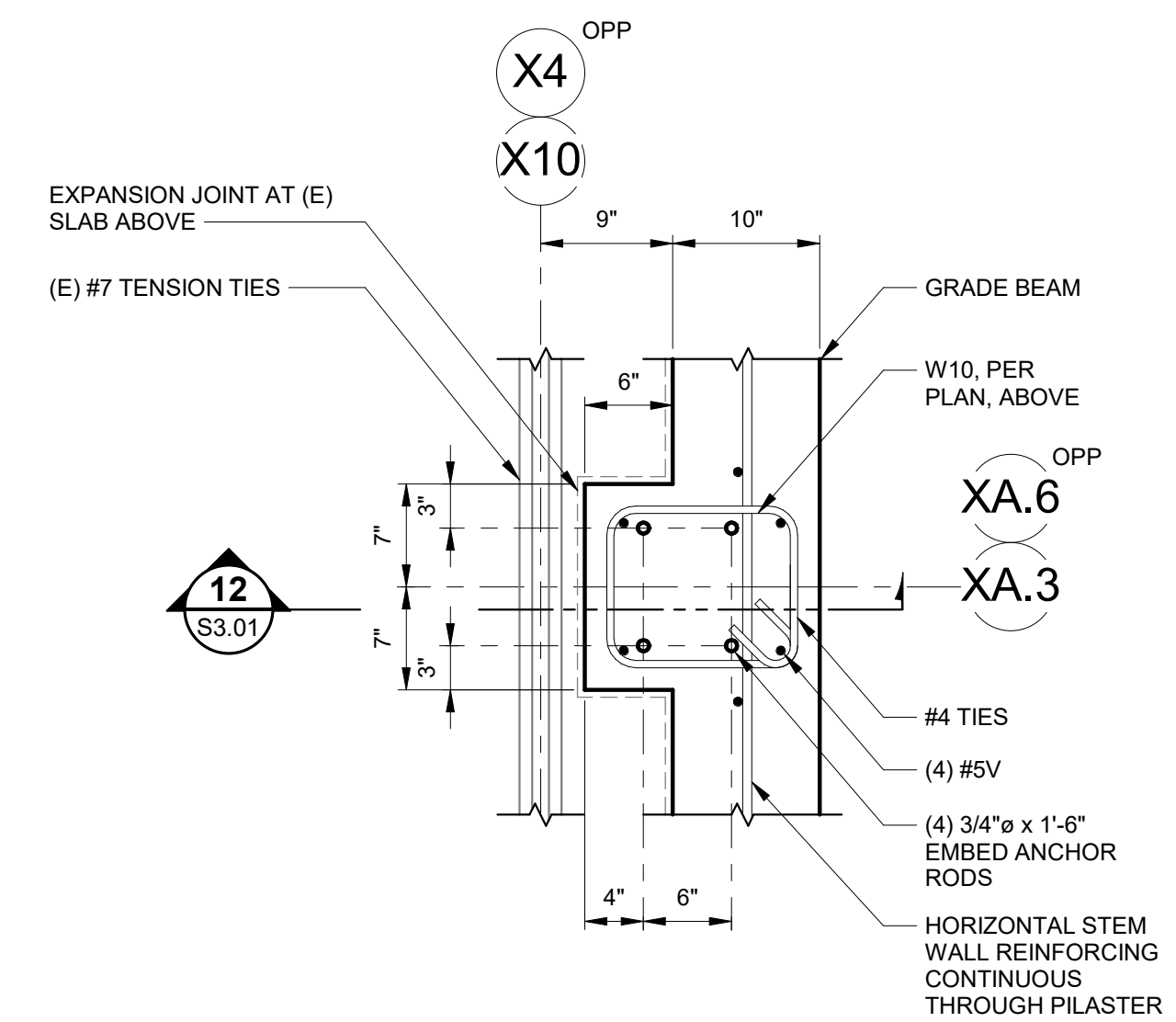
2 TYPICAL REINFORCING HOOK DETAILS
3/4" = 1'-0"



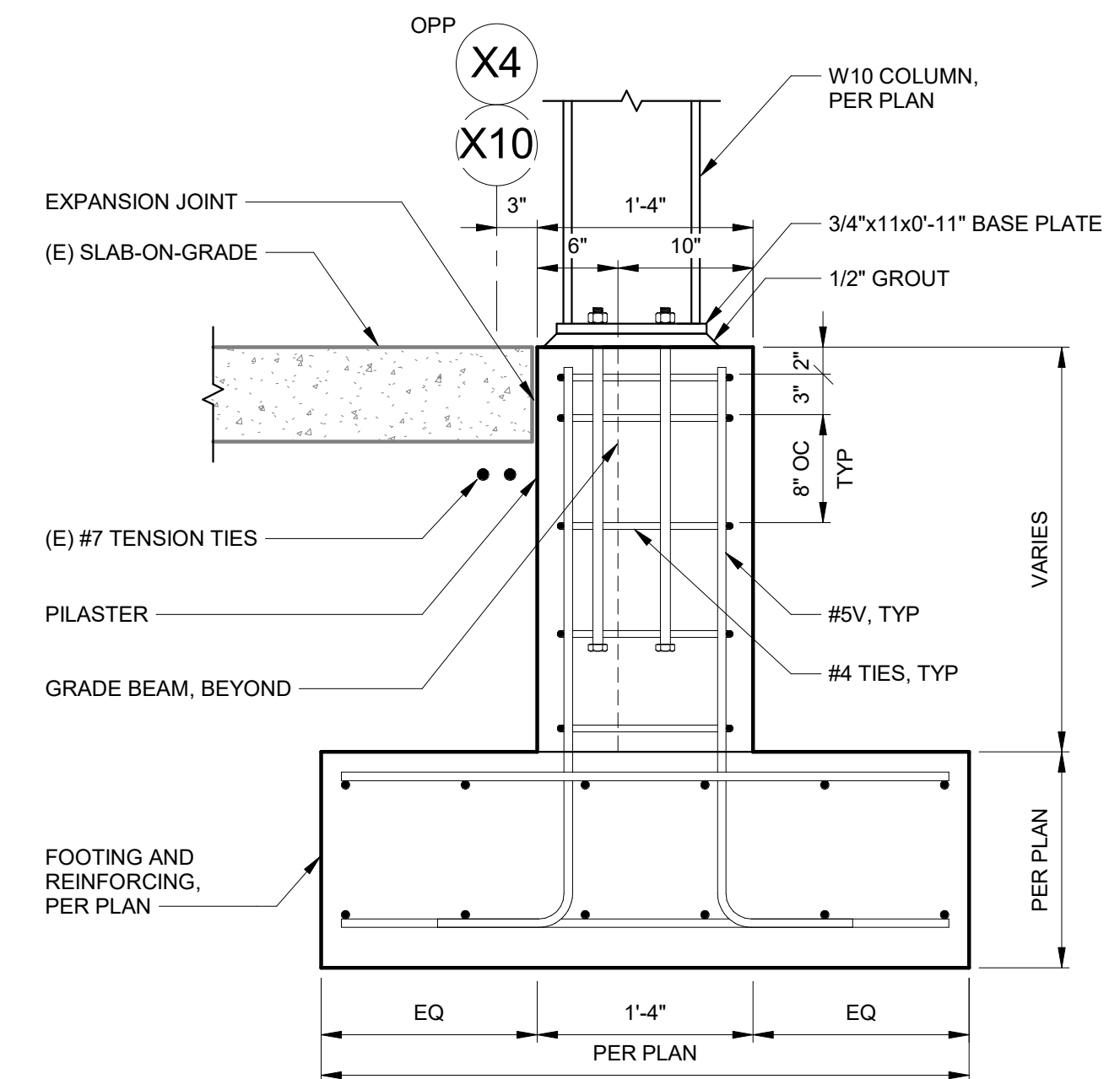
7 TYPICAL SECTION AT GRADE BEAM
1" = 1'-0"



4 TYPICAL STEM WALL AT (E) PILASTER DETAIL
1" = 1'-0"

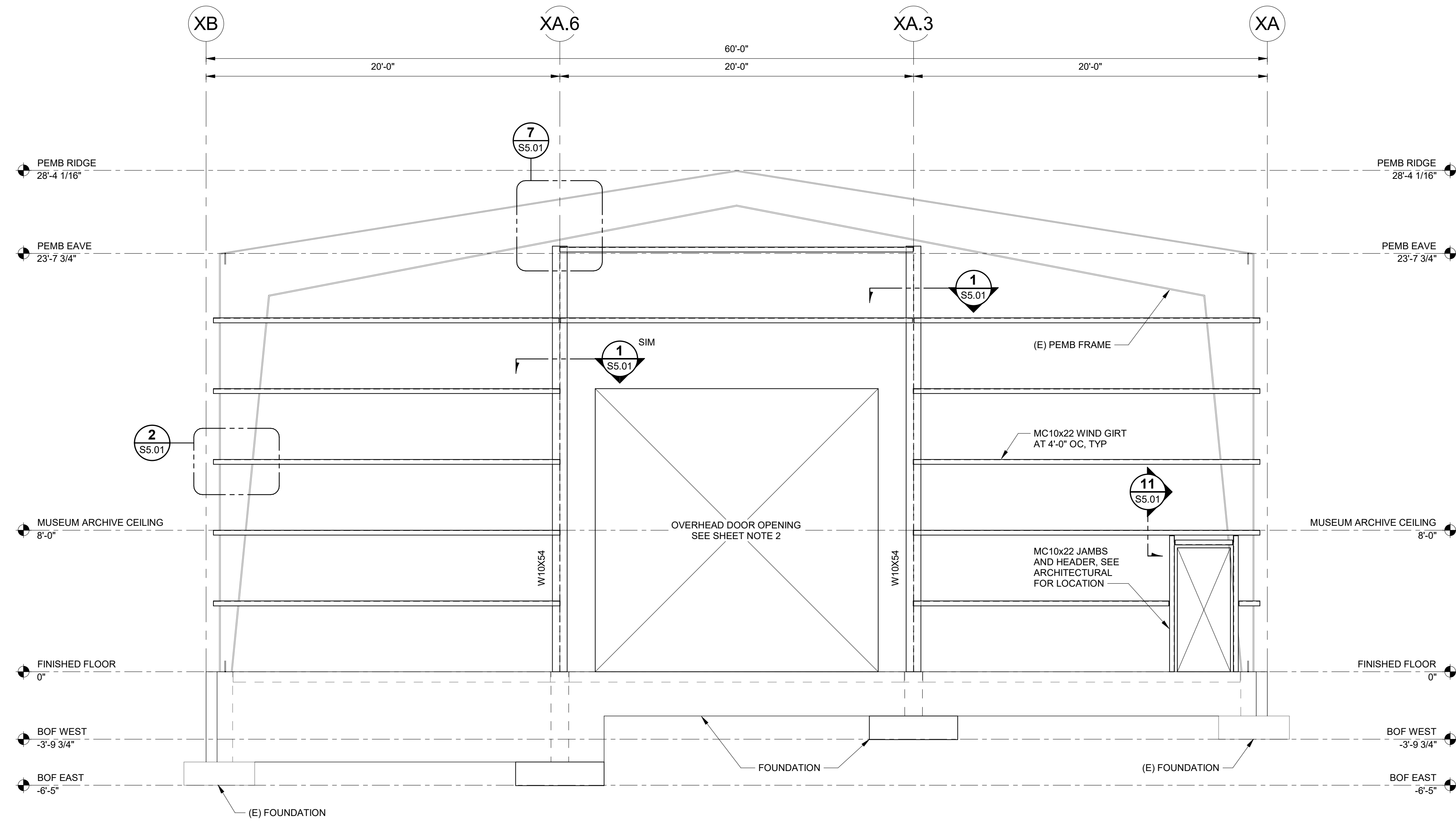


8 TYPICAL PILASTER DETAIL
1" = 1'-0"



12 TYPICAL SECTION AT GRADE BEAM
1" = 1'-0"





① FRAMING ELEVATION - NORTH WALL
1/4" = 1'-0"

SHEET NOTES

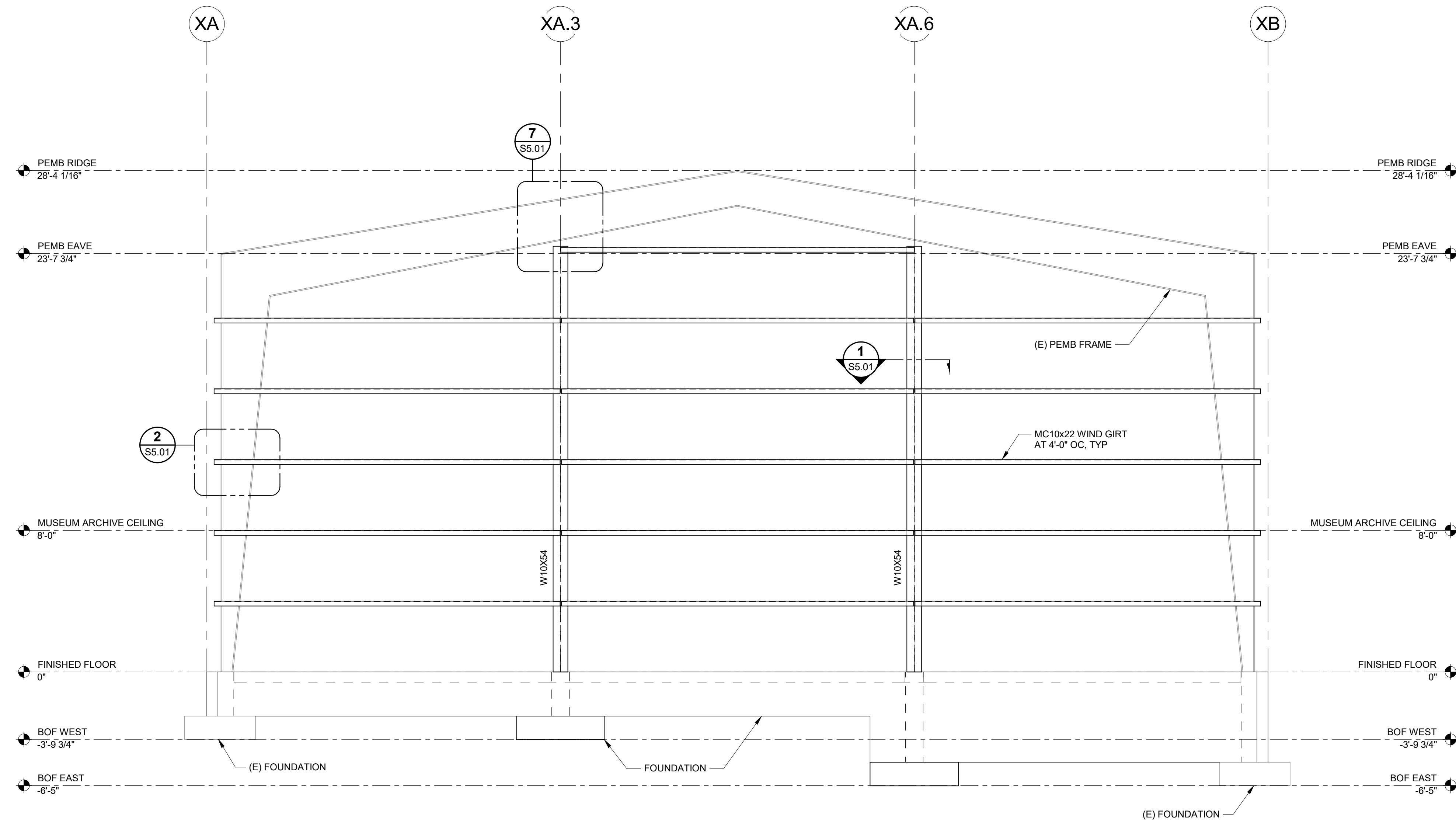
1. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS.
2. REUSE EXISTING GARAGE DOOR AND INFILL FRAMING. CONTRACTOR SHALL FIELD VERIFY FRAMING IS IN ADEQUATE CONDITION FOR REUSE.

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NORTH END WALL ELEVATION
 AUTHOR: DJM
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① FRAMING ELEVATION - SOUTH WALL
1/4" = 1'-0"

SHEET NOTES

1. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS.

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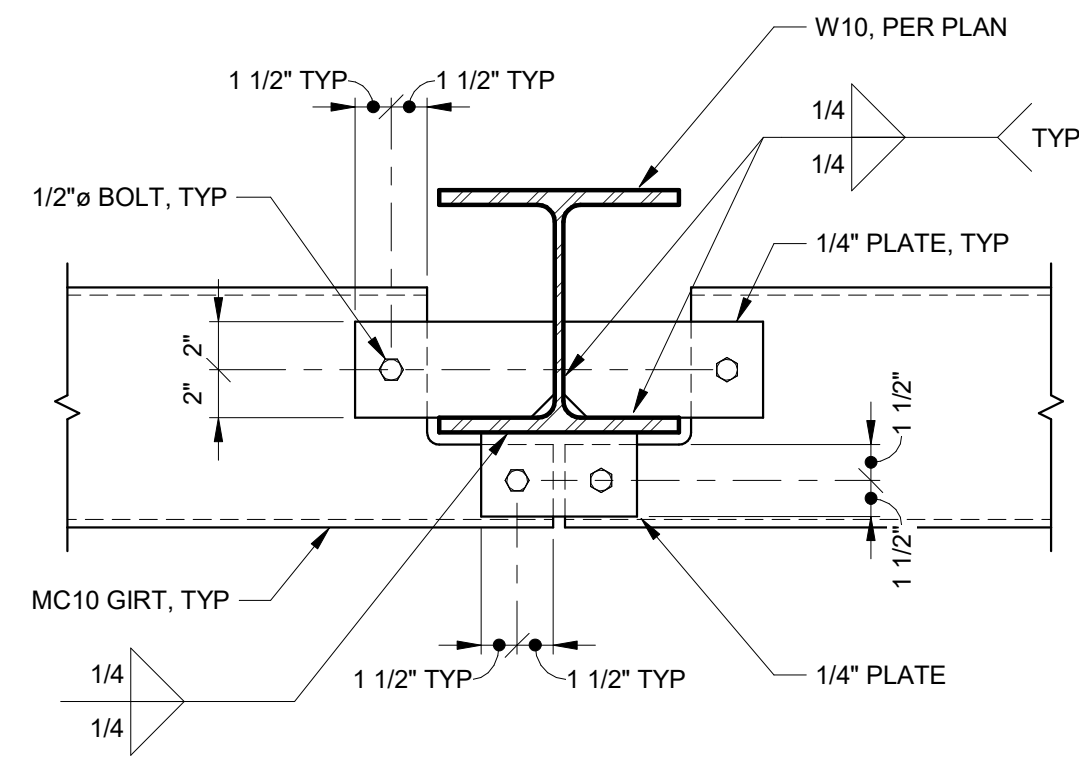


SOUTH END WALL ELEVATION

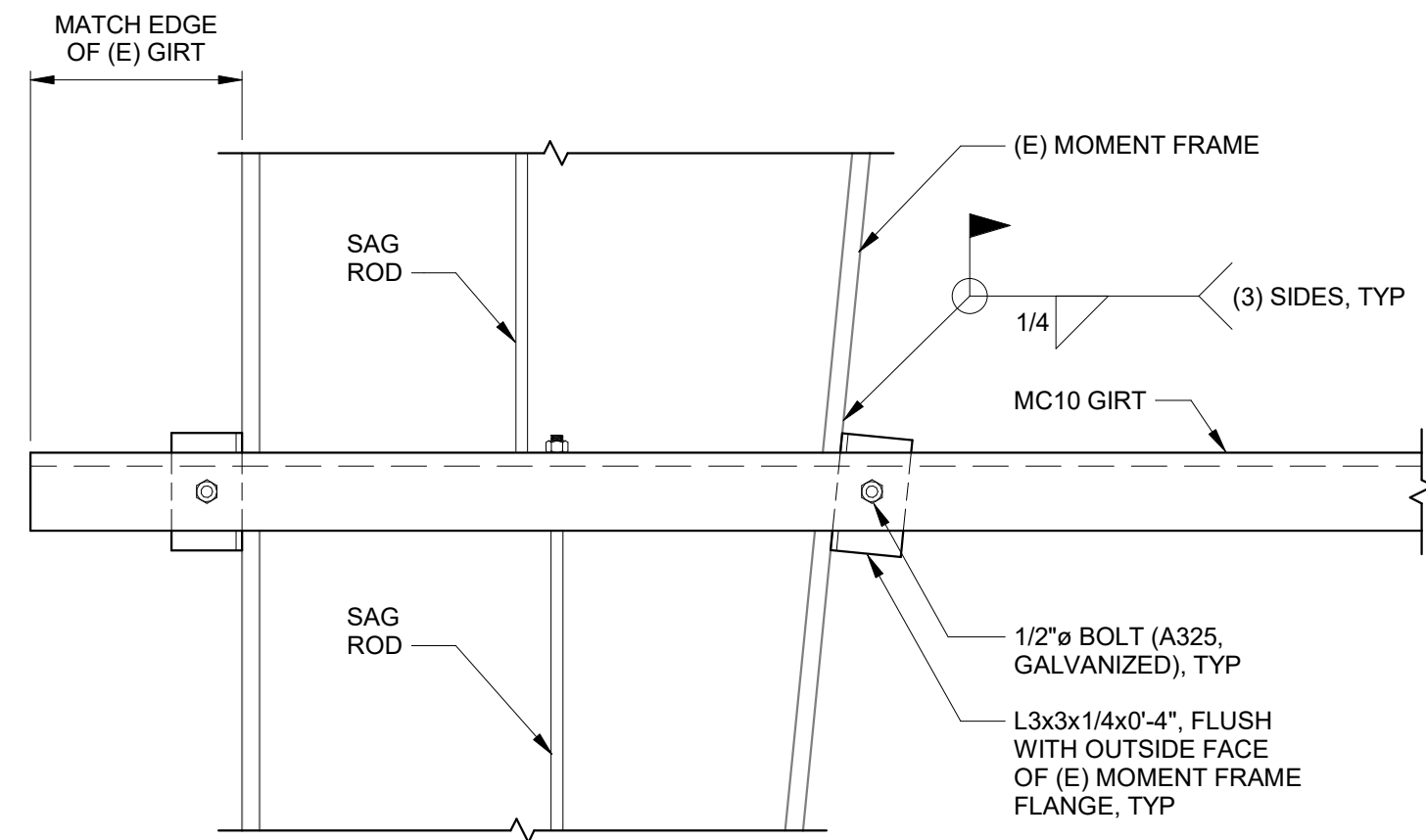
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ISSUE DATE: 06.04.2019
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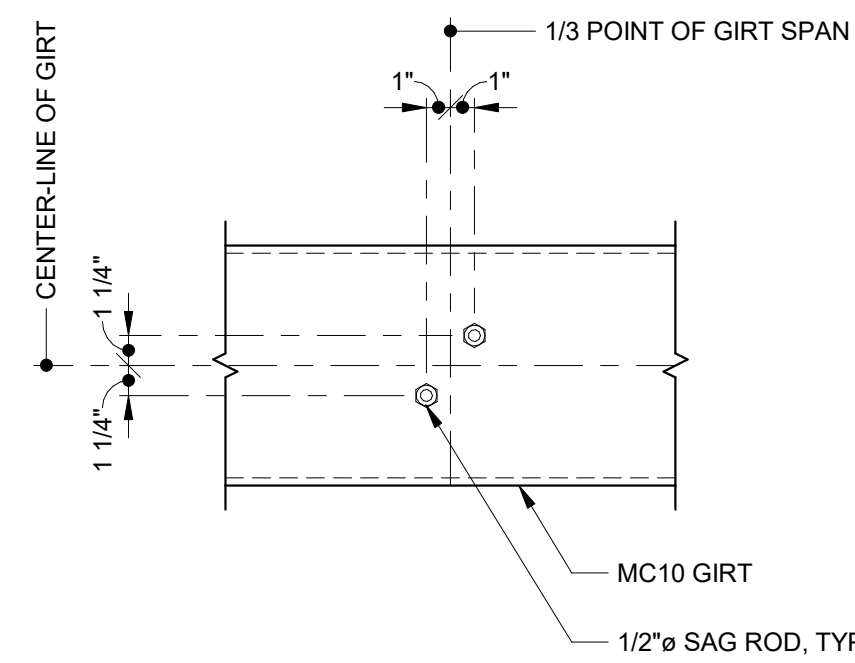
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1 TYPICAL GIRT TO COLUMN DETAIL
1 1/2" = 1'-0"

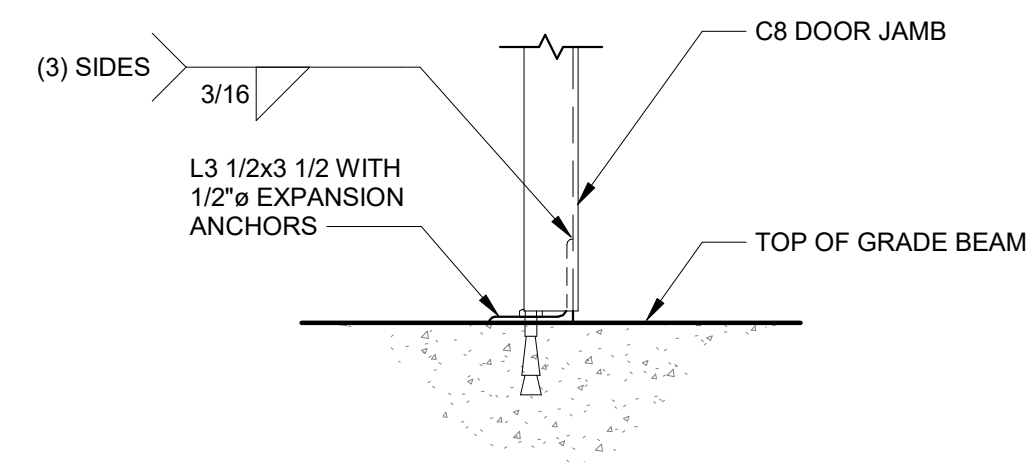


2 TYPICAL GIRT TO (E) MOMENT FRAME DETAIL
1 1/2" = 1'-0"

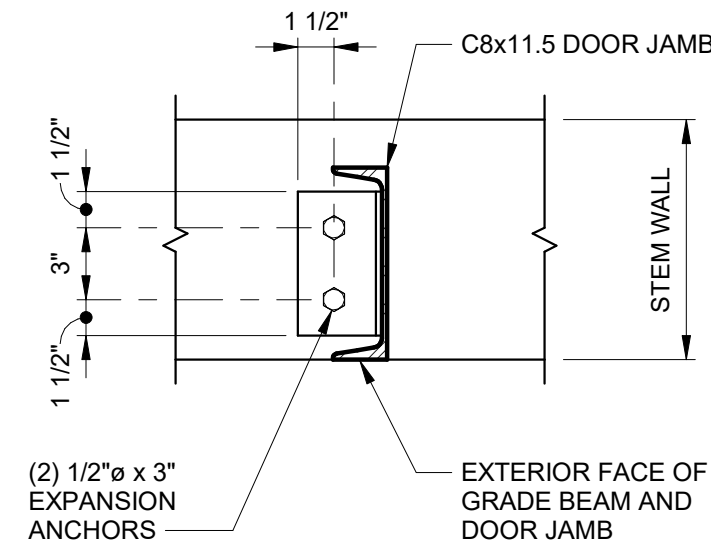


- NOTES:
1. LOCATE SAG ROD AT 1/3 POINTS OF EACH GIRT SPAN.

5 TYPICAL SAG ROD DETAIL
1 1/2" = 1'-0"

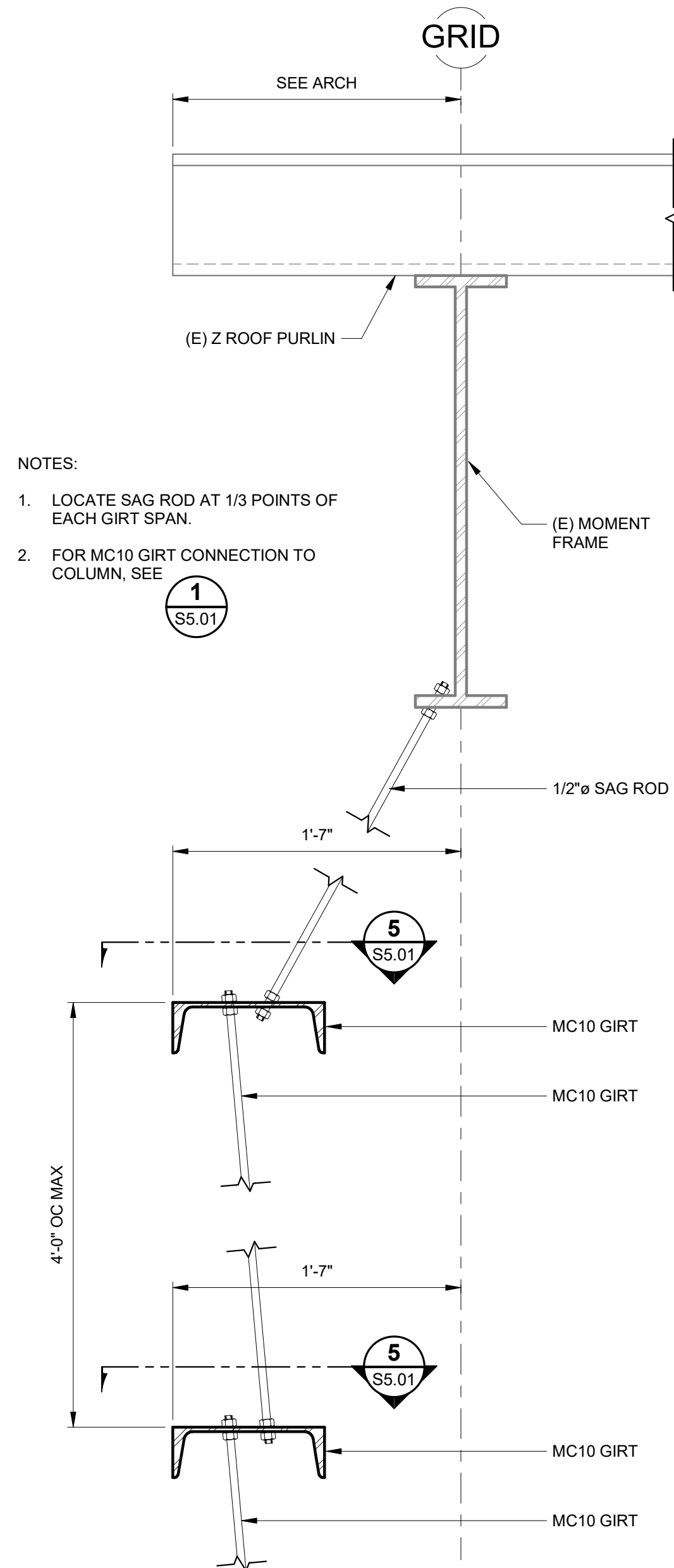


ELEVATION



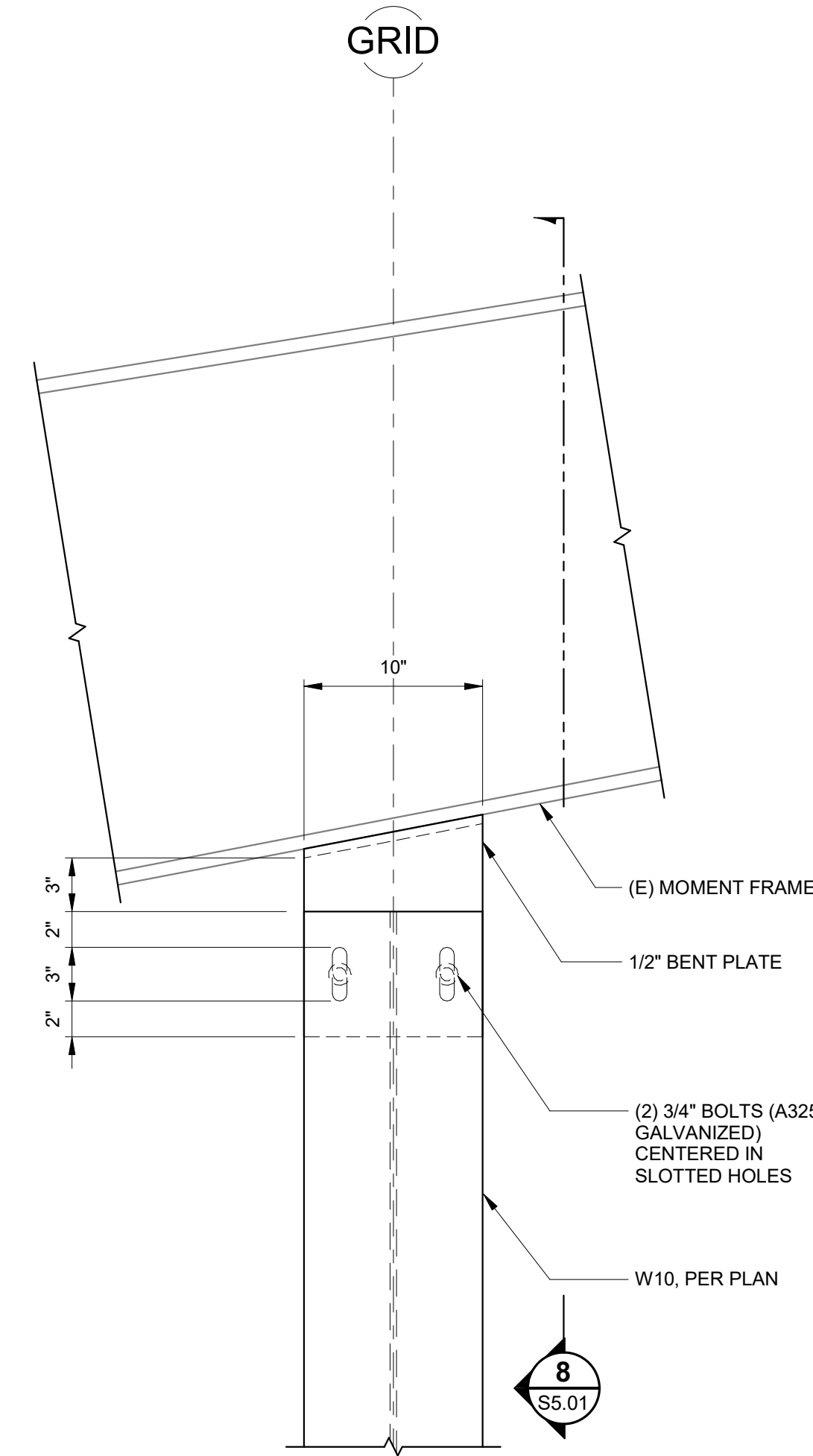
PLAN

9 TYPICAL DOOR JAMB BASE ANGLE DETAIL
1 1/2" = 1'-0"



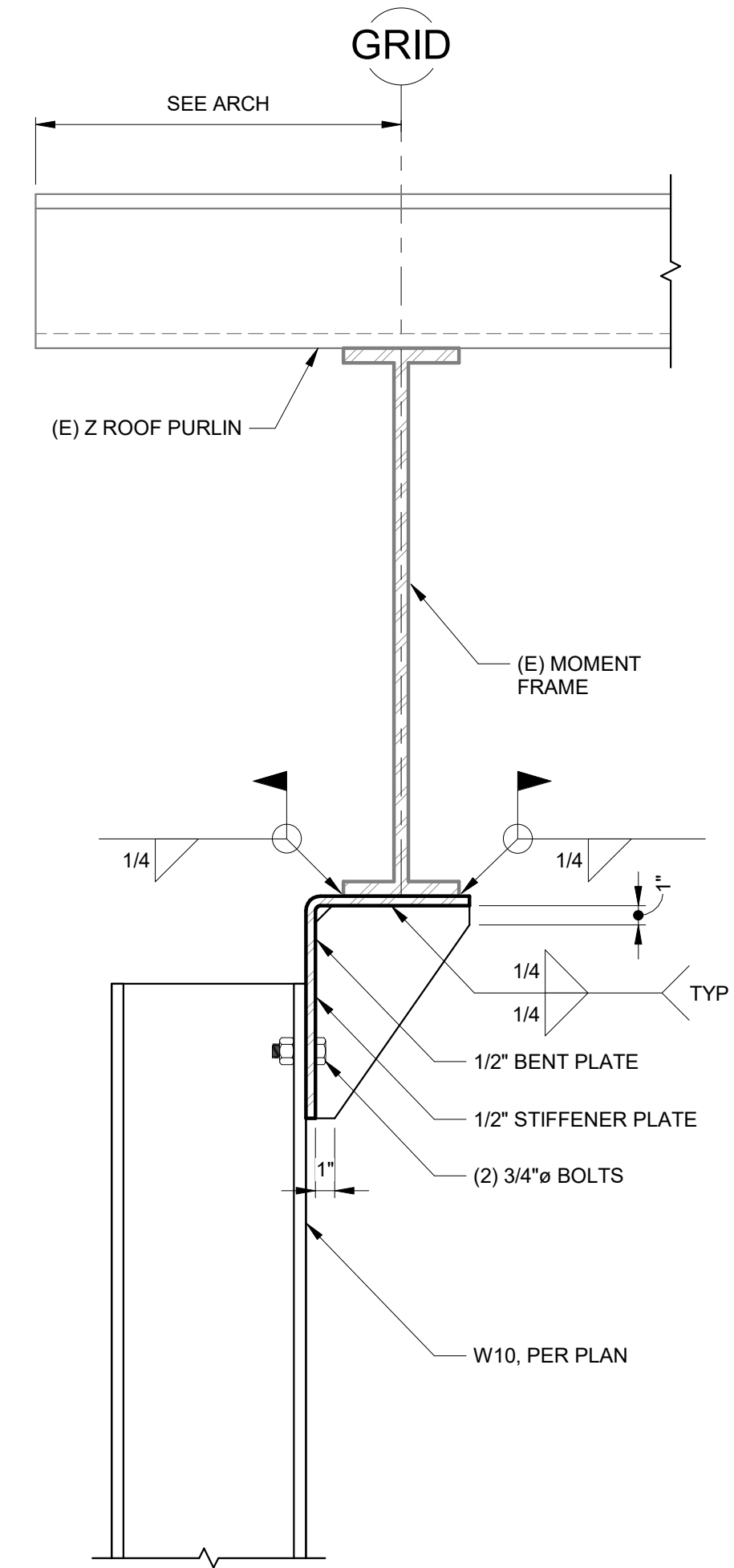
- NOTES:
1. LOCATE SAG ROD AT 1/3 POINTS OF EACH GIRT SPAN.
 2. FOR MC10 GIRT CONNECTION TO COLUMN, SEE 1

10 TYPICAL SAG ROD DETAIL
1 1/2" = 1'-0"



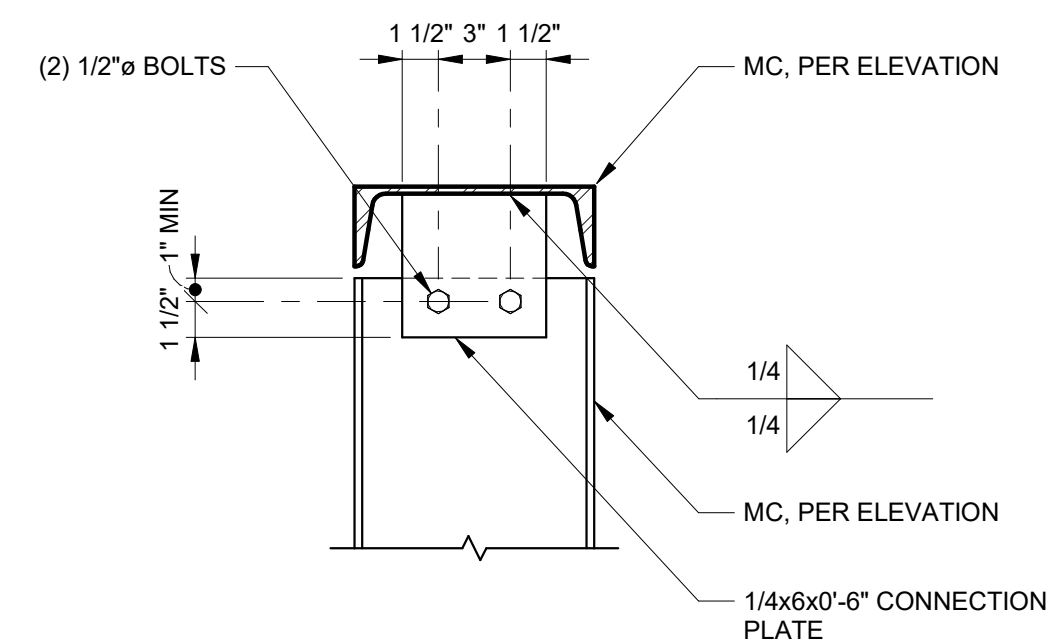
- NOTES:
1. WIND GIRT NOT SHOWN FOR CLARITY.

7 TYPICAL COLUMN TO (E) MOMENT FRAME DETAIL
1 1/2" = 1'-0"



- NOTES:
1. WIND GIRT NOT SHOWN FOR CLARITY.

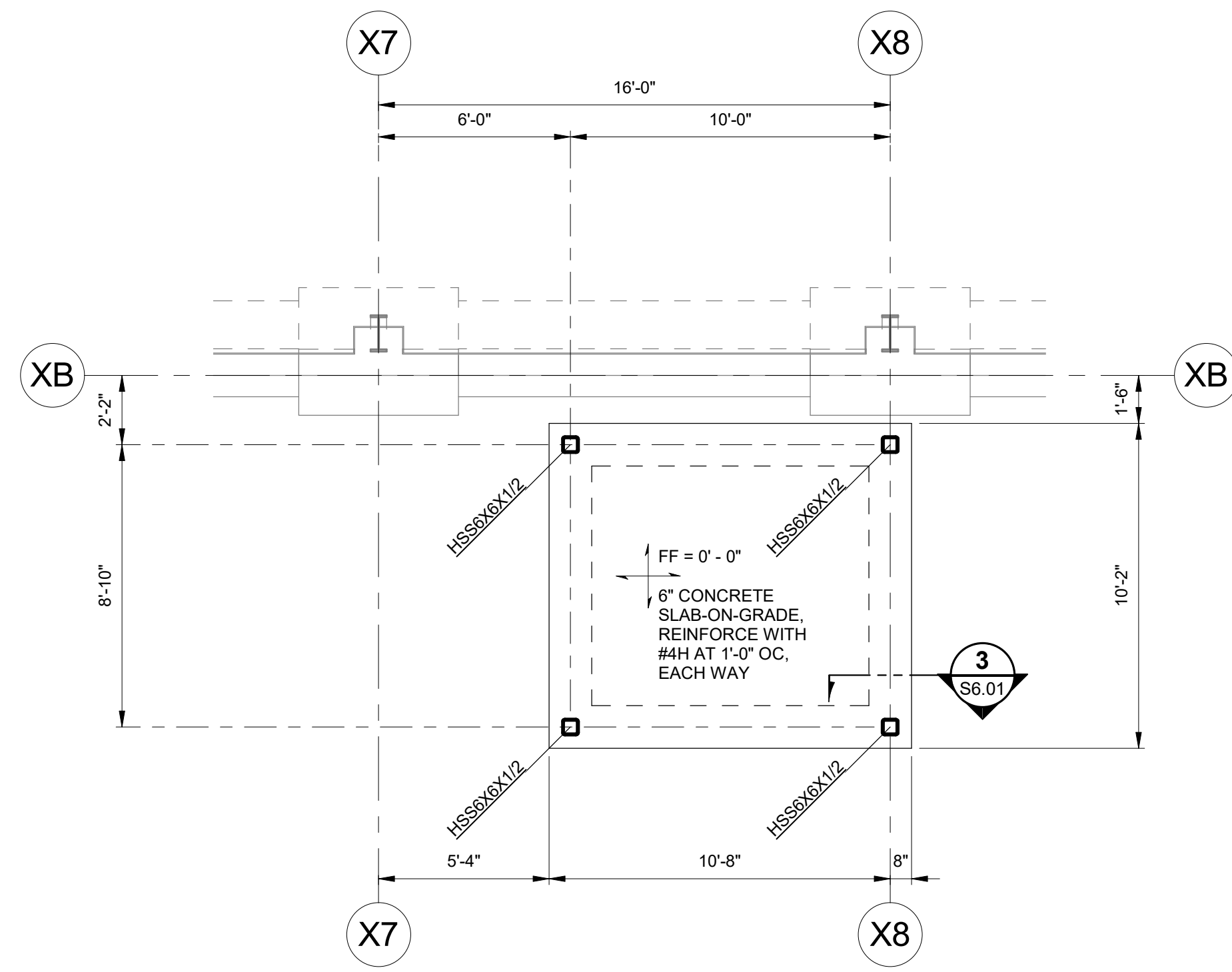
8 TYPICAL COLUMN TO (E) MOMENT FRAME DETAIL
1 1/2" = 1'-0"



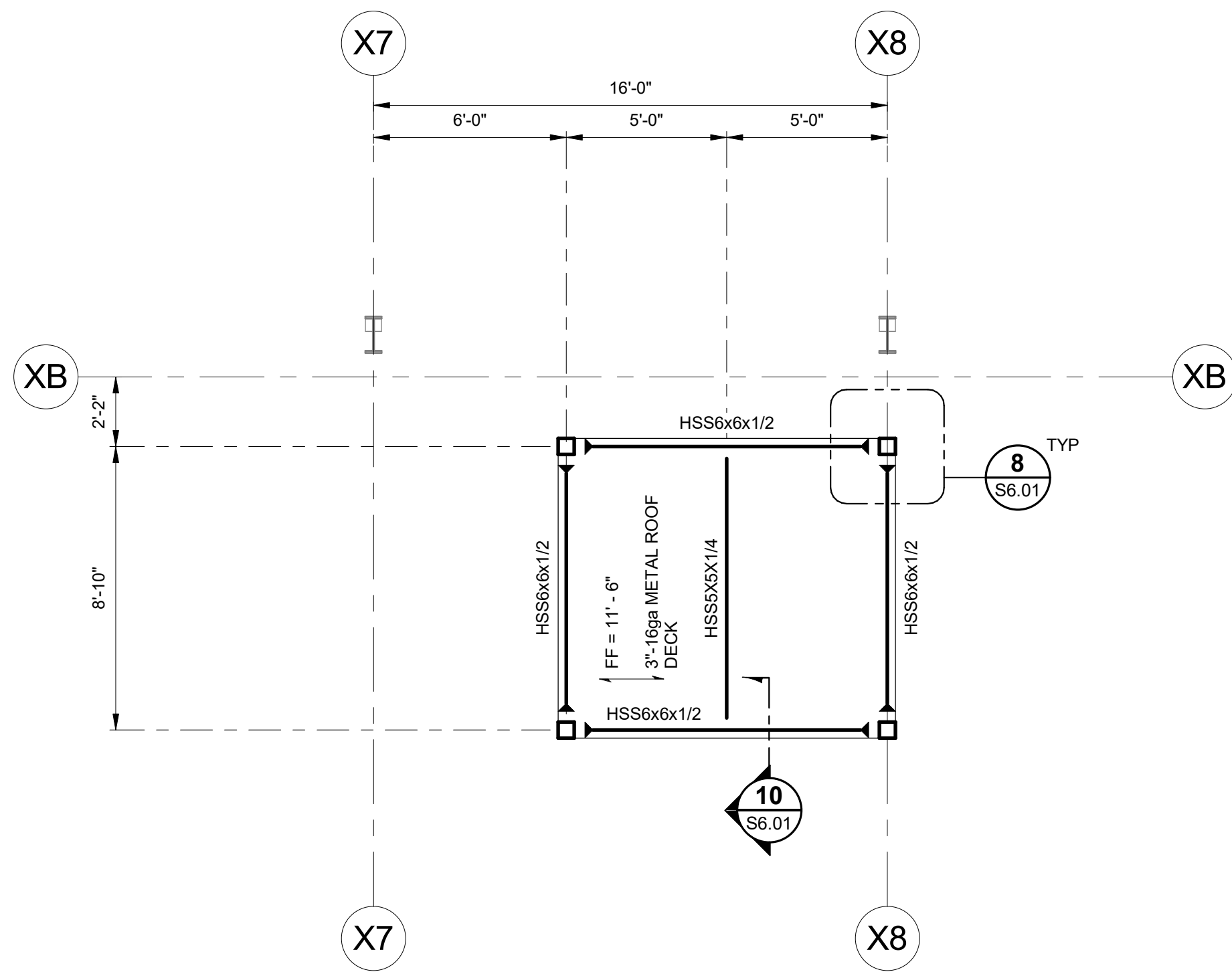
- NOTES:
1. FOR CONNECTION TO FLAT SIDE OF MC, USE 1/4x3x0'-6" CONNECTION PLATE.

11 TYPICAL MC TO MC DETAIL
1 1/2" = 1'-0"

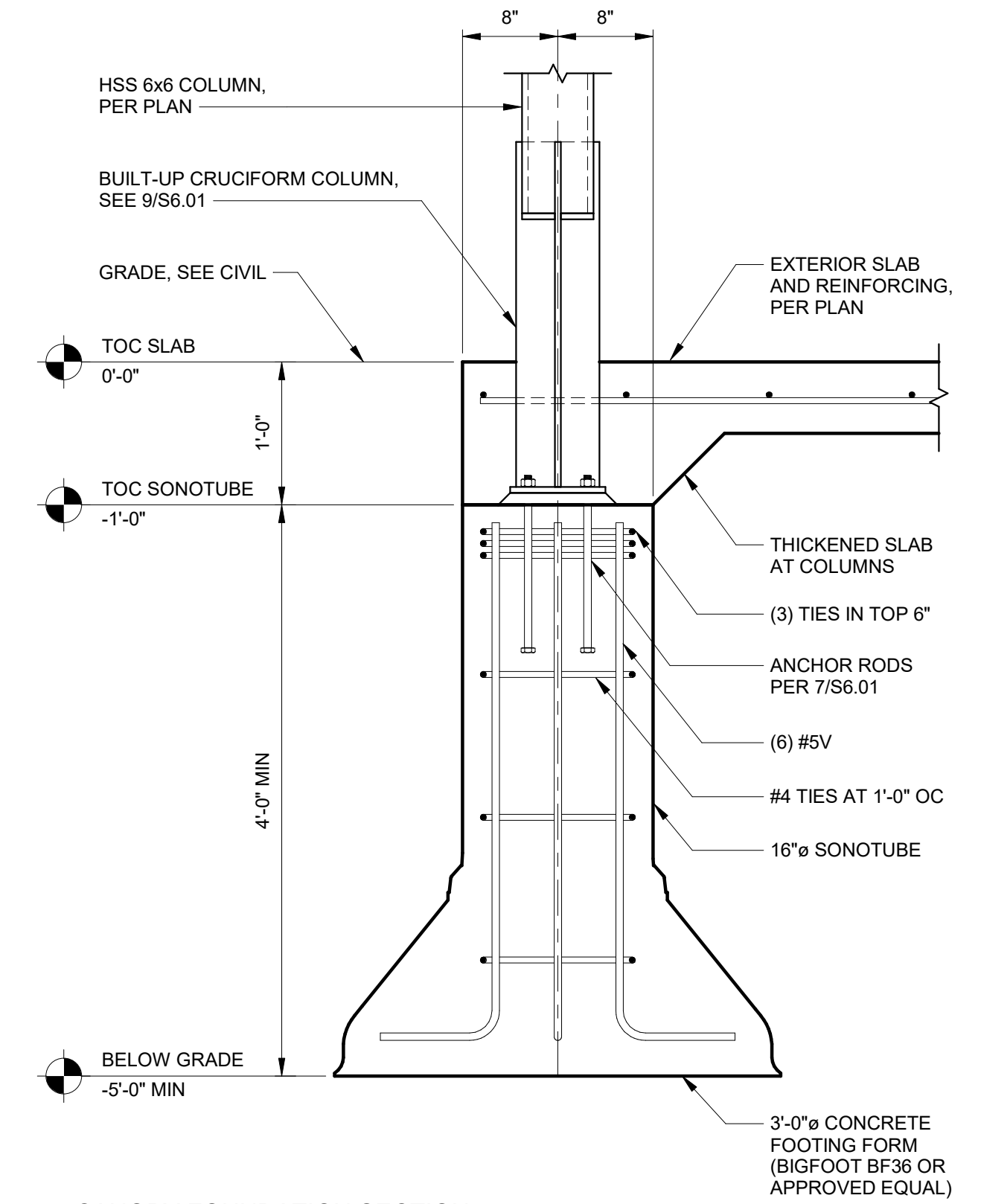




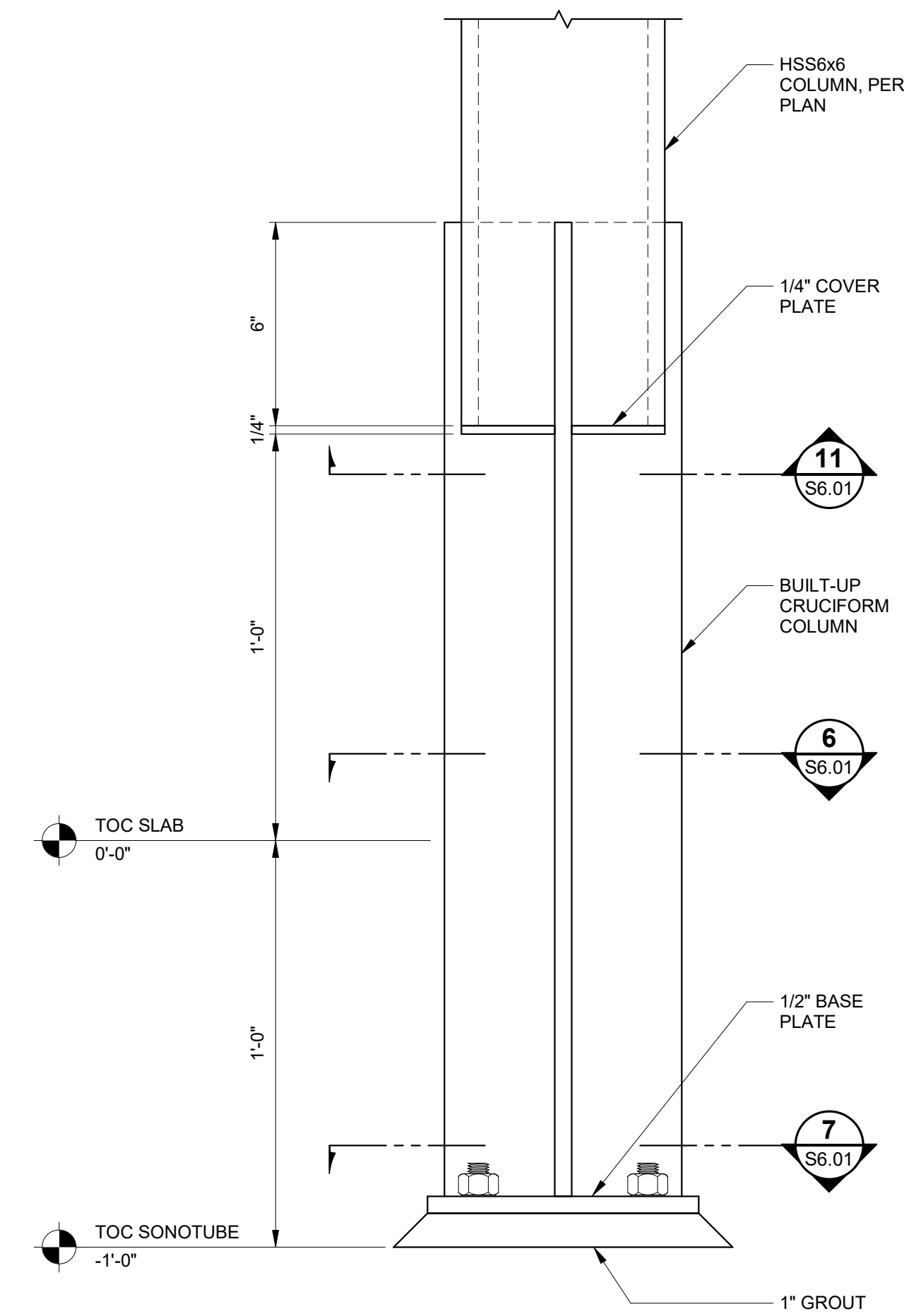
1 CANOPY FOUNDATION AND SLAB PLAN
1/4" = 1'-0"



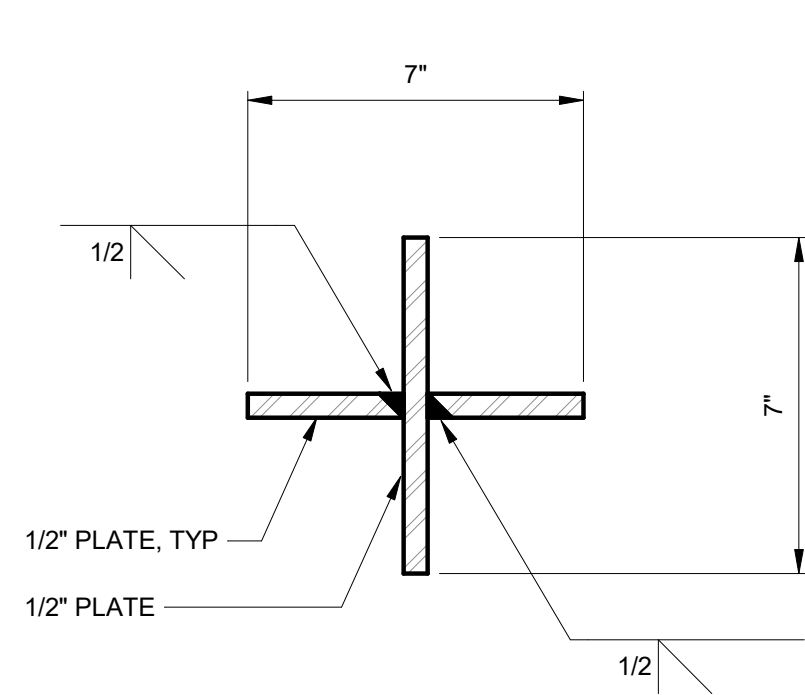
2 CANOPY ROOF FRAMING PLAN
1/4" = 1'-0"



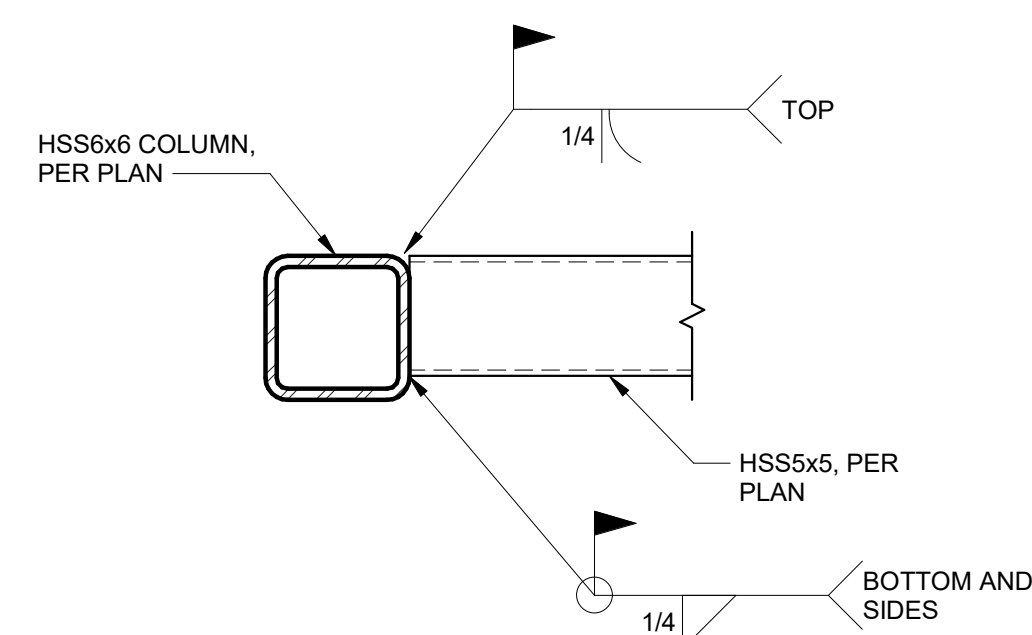
3 CANOPY FOUNDATION SECTION
1" = 1'-0"



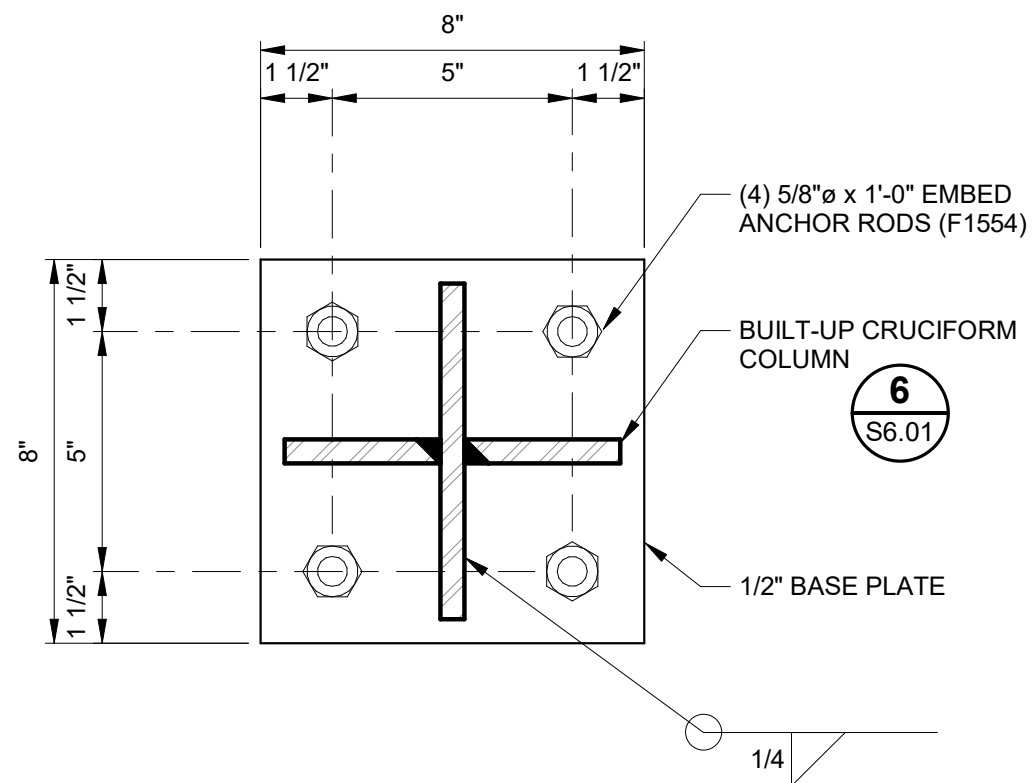
9 BUILT-UP CRUCIFORM COLUMN ELEVATION
3" = 1'-0"



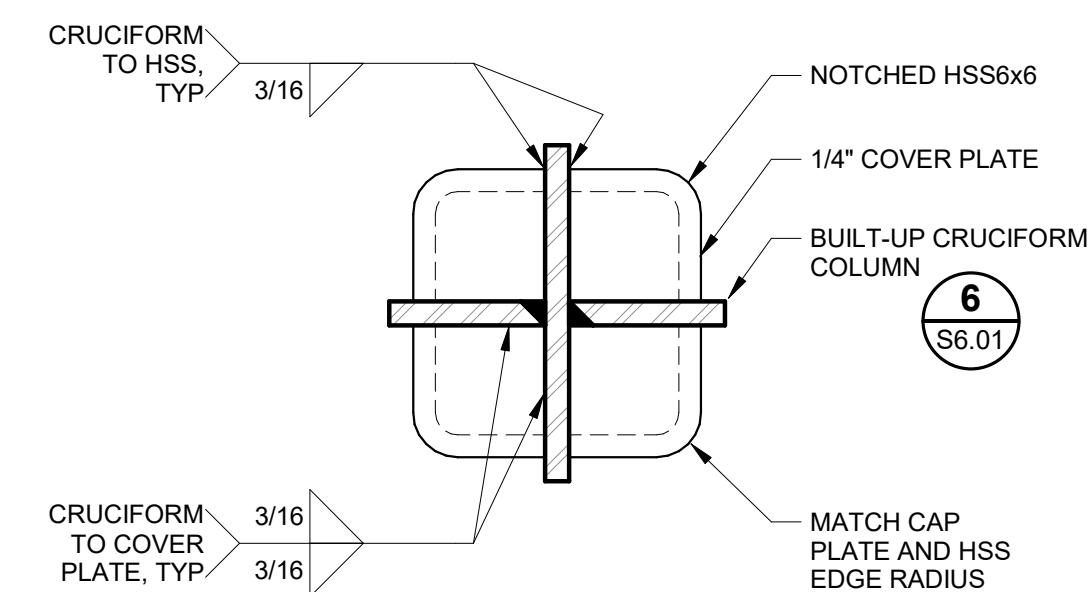
6 BUILT-UP CRUCIFORM COLUMN SECTION
3" = 1'-0"



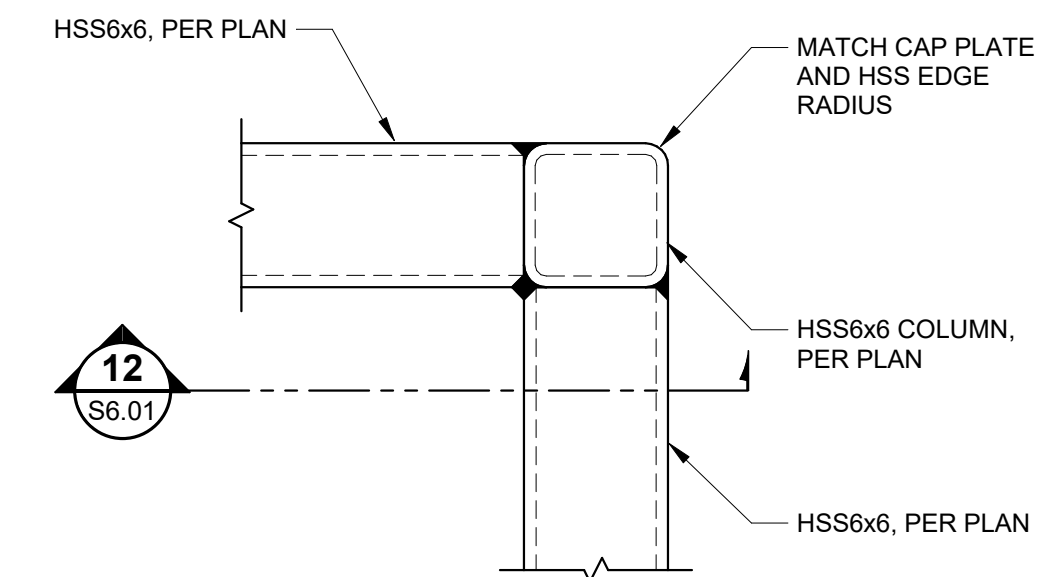
10 ROOF FRAMING DETAIL
1 1/2" = 1'-0"



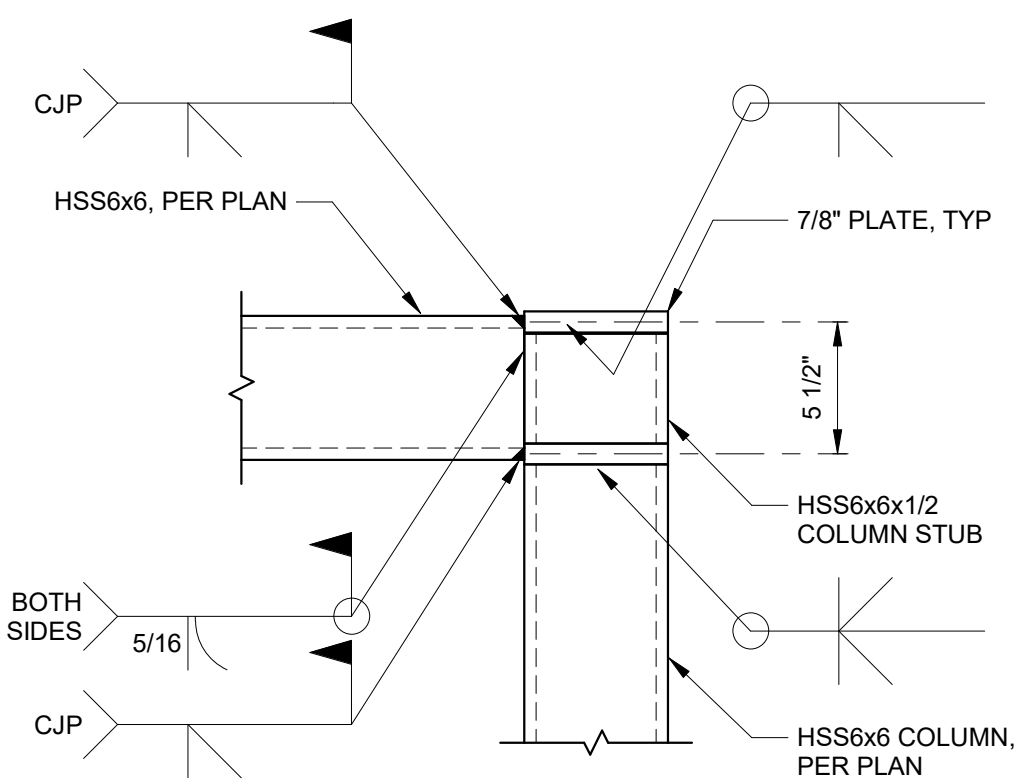
7 BUILT-UP CRUCIFORM COLUMN BASE PLATE DETAIL
3" = 1'-0"



11 BUILT-UP CRUCIFORM COLUMN TO HSS COLUMN DETAIL
3" = 1'-0"



8 MOMENT FRAME DETAIL
1 1/2" = 1'-0"



12 MOMENT FRAME SECTION
1 1/2" = 1'-0"

NOTES:
1. DO NOT PENETRATE TUBES WITHIN 1'-0" OF CONNECTION.

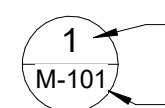
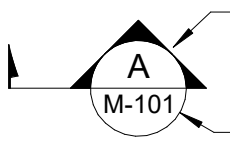

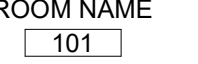



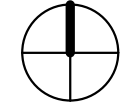
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AUTHOR: DJM
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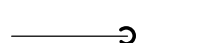
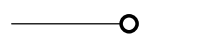
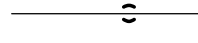
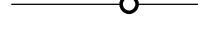
GENERAL

DETAIL SYMBOL		DETAIL IDENTIFICATION DRAWING ON WHICH DETAIL IS SHOWN
SECTION SYMBOL		SECTION IDENTIFICATION DRAWING ON WHICH SECTION IS SHOWN
MATCHLINE VIEW REFERENCE		DETAIL IDENTIFICATION DRAWING ON WHICH CONTINUATION OF VIEW IS SHOWN
ROOM NAME AND NUMBER DESIGNATION		ROOM NAME
SHEET KEYNOTE		
GENERAL SHEET NOTE		
POINT OF CONNECTION		
NORTH ARROW		

LINE TYPE LEGEND

	NEW
	EXISTING
	DEMO
	SUPPLY
	RETURN

PIPE FITTINGS

ELBOW, TURNED DOWN	
ELBOW, TURNED UP	
TEE, OUTLET DOWN	
TEE, OUTLET UP	

MECHANICAL SPECIFICATIONS

PART 1 - GENERAL

PLANS – PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, SUPERVISION OF LABOR AND PERFORMANCE OF ALL OPERATIONS REQUIRED TO COMPLETELY INSTALL OPERATING MECHANICAL AND PLUMBING SYSTEMS, TO THE OWNER'S SATISFACTION, AS DEFINED HEREIN AND ON THE DRAWINGS.

CODE - ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE 2015 EDITIONS OF THE INTERNATIONAL BUILDING CODE (IBC), INTERNATIONAL MECHANICAL CODE (IMC), INTERNATIONAL FUEL-GAS CODE, UNIFORM PLUMBING CODE (UPC) AND NATIONAL ELECTRICAL CODE (NEC), ALL AS AMENDED BY THE LOCAL AUTHORITY HAVING JURISDICTION, AND PER CUSTOMARY AND UNIVERSALLY APPROVED INDUSTRY PRACTICES.

DRAWINGS - THE DRAWINGS ARE DIAGRAMMATIC, NOT NECESSARILY SHOWING ALL OFFSETS OR EXACT LOCATIONS OF PIPING AND DUCTS UNLESS SPECIFICALLY DIMENSIONED. REVIEW THE DRAWINGS AND SPECIFICATIONS FOR EQUIPMENT FURNISHED BY OTHER CRAFTS BUT INSTALLED IN ACCORDANCE WITH THIS SECTION. BRING PERCEIVED ISSUES AND CONCERNS TO THE IMMEDIATE ATTENTION OF THE OWNER'S REPRESENTATIVE, SUCH AS QUESTIONABLE OR OBSCURE ITEMS, APPARENT CONFLICTS BETWEEN PLANS AND SPECIFICATIONS, GOVERNING CODES OR UTILITIES REGULATIONS, AND MANUFACTURER'S INSTALLATION DIRECTIONS. CODES, ORDINANCES, REGULATIONS, MANUFACTURER'S INSTRUCTIONS OR STANDARDS TAKE PRECEDENCE WHEN THEY ARE MORE STRINGENT OR CONFLICT WITH THE DRAWINGS AND SPECIFICATIONS.

COORDINATION - COORDINATE WORK UNDER THIS DIVISION WITH WORK OF OTHER TRADES TO AVOID CONFLICTS, ERRORS, AND DELAYS. REVIEW THE DRAWINGS AND SPECIFICATIONS FOR EQUIPMENT FURNISHED BY OTHER CRAFTS BUT INSTALLED IN ACCORDANCE WITH THIS SECTION.

EXISTING CONDITIONS - FIELD VERIFY DIMENSIONS PRIOR TO ORDERING MATERIALS. THE CONTRACTOR IS RESPONSIBLE FOR EXTRA EXPENSES ARISING FROM FAILURE ON HIS PART TO COMPLETE THIS TASK.

PRODUCTS – PROVIDE ALL PRODUCTS AND MATERIALS NEW AND UNUSED. OBTAIN OWNER'S APPROVAL OF ALL PRODUCTS AND MATERIALS PRIOR TO ORDERING OR INSTALLING ANY PART OF ANY SYSTEM.

DEMOLISHING EXISTING ITEMS - COORDINATE ALL DEMO WORK WITH OWNER SO THAT IT IS DONE IN AN APPROVED MANNER AND SCHEDULED IN A WAY THAT DOES NOT ADVERSELY AFFECT THE OWNER'S OPERATIONS.

SALVAGE EQUIPMENT - THE OWNER RETAINS THE RIGHT TO CLAIM SALVAGED MATERIALS. THOSE ITEMS NOT CLAIMED BY THE OWNER ARE TO BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF BY THE CONTRACTOR.

PART 2 - PRODUCTS

FIRE SUPPRESSION - PROVIDE SERVICES OF A FIRE PROTECTION CONTRACTOR TO MODIFY EXISTING SPRINKLER PIPING AND SPRINKLER HEADS AS REQUIRED FOR A COMPLETE OPERABLE SYSTEM THAT MEETS THE REQUIREMENTS OF NFPA 13.

EXISTING PRE-ACTION SYSTEM SERVING MUSEUM: NO CHANGES TO DISTRIBUTION PIPING OR HEADS. PROVIDE REPLACEMENT FLAPPER-STYLE (TYCO DV-1) PRE-ACTION VALVE AND ACCESSORIES AT SPRINKLER RISER IN BOILER ROOM.

EXISTING DRY SYSTEM IN SOUTH WAREHOUSE: DEMOLISH ENTIRE BRANCH BACK TO ISOLATION VALVE AT RISER IN BOILER ROOM. CLOSE VALVE AND CAP PIPING AT VALVE.

EXISTING DRY SYSTEM IN NORTH WAREHOUSE: DEMOLISH INDICATED PORTIONS OF EXISTING DISTRIBUTION PIPING AND HEADS. MODIFY REMAINING SYSTEM TO PROVIDE COVERAGE TO REMAINING PORTIONS OF EXISTING SPRINKLER ZONE. PROVIDE REPLACEMENT FLAPPER-STYLE (TYCO DPV-1) DRY PIPE VALVE AND ACCESSORIES AT SPRINKLER RISER IN BOILER ROOM.

HYDRONIC PIPING: TYPE L COPPER; SOLDERED, BRAZED, OR MECHANICAL COMPRESSION JOINT (PRO-PRESS), SCHEDULE 40 STEEL, WELDED OR THREADED, MALLEABLE IRON FITTINGS.

PART 3 – INSTALLATION

INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND IN THE BEST PRACTICE OF THE CRAFT.

CLEANING - CLEAN EXISTING EQUIPMENT INDICATED FOR REINSTALLATION.

ACCESS - PROVIDE MAINTENANCE ACCESS TO ALL SERVICEABLE AND/OR OPERABLE EQUIPMENT.

PIPING SYSTEM TEST AND START-UP - TEST AND CLEAN HEATING SYSTEM PIPING IN ACCORDANCE WITH THE INTERNATIONAL MECHANICAL CODE. FLUSH AND CLEAN HEATING SYSTEMS PRIOR TO INSTALLATION OF GLYCOL OR WATER QUALITY CHEMICALS. CLEAN HEATING PIPING WITH TRISODIUM PHOSPHATE MIXTURE PRIOR TO FILLING. SUBMIT RECORDS OF TESTING AND CLEANING.



MECHANICAL LEGEND,
SCHEDULES, & SPECIFICATIONS
AUTHOR: MEB
REVISION:
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M0.00

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SHEET KEYNOTES

- 1 DEMOLISH ABANDONED WATER BACK TO UTILITY SHUTOFF AND CAP.
- 2 DEMOLISH TRENCH DRAIN AND ASSOCIATED PIPING.
- 3 DEMOLISH UNDERFLOOR WASTE AND VENT PIPING BACK TO MAINS AND CAP.
- 4 UNDERGROUND HEATING OIL PIPING TO REMAIN. ROUTING, DEPTH, SIZE, AND MATERIAL ARE UNKNOWN. CONTRACTOR TO VERIFY AND DOCUMENT. DRAIN AND BLOW OUT UNDERGROUND HEATING OIL LINES PRIOR TO START OF DEMOLITION WORK. PROVIDE TEMPORARY FUEL SYSTEM TO MAINTAIN HEATING OPERATIONS, SEE OTHER SHEETS.

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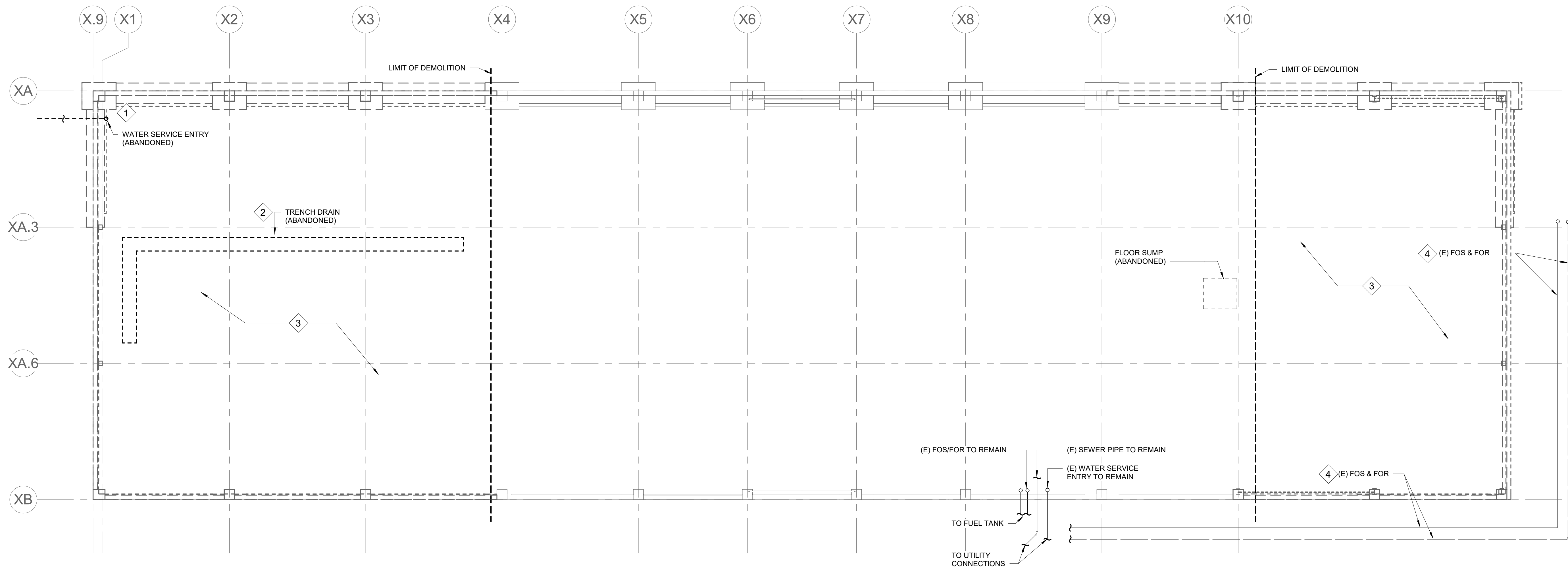
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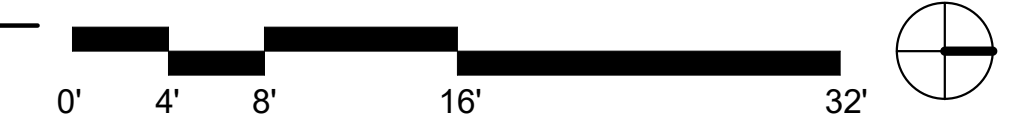


UNDERFLOOR PLAN - MECHANICAL - DEMO
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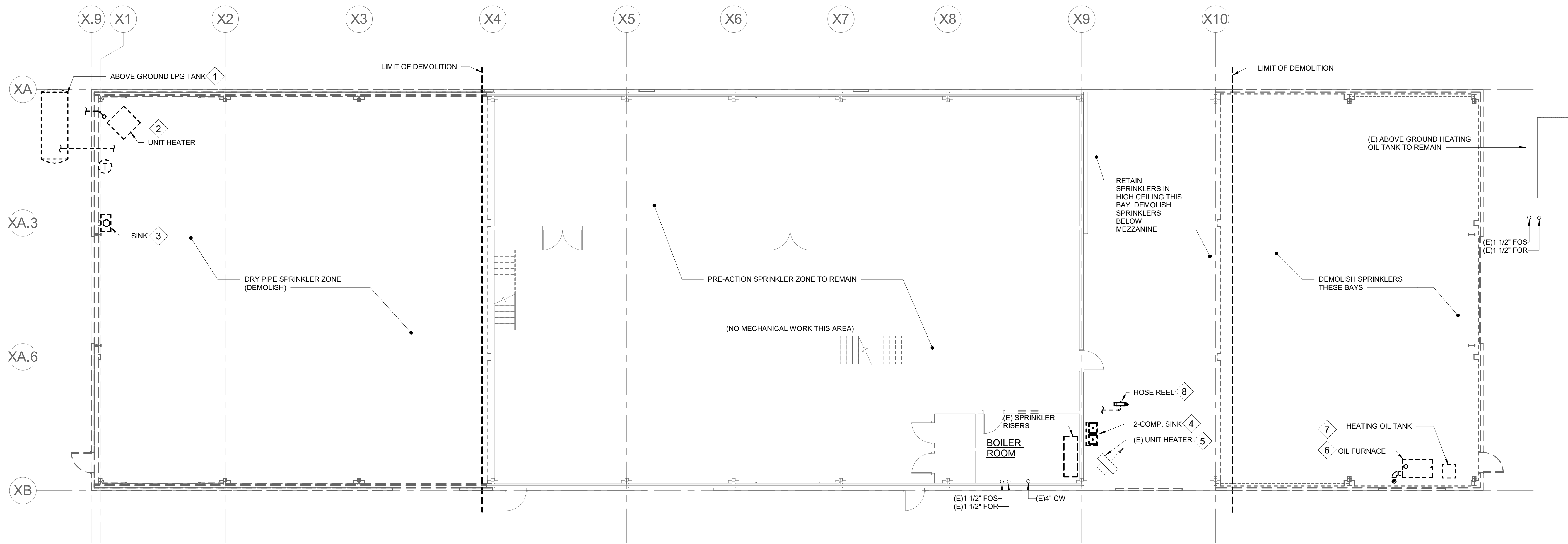


1 UNDERFLOOR PLAN - MECHANICAL - DEMO
1/8" = 1'-0"

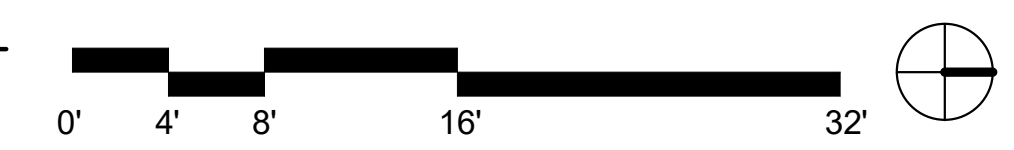


SHEET KEYNOTES

- 1 SHUT OFF PROPANE AND DISCONNECT TANK. ARRANGE FOR PICKUP OF TANK BY UTILITY (NORTH PACIFIC FUEL).
- 2 REMOVE GAS FIRED UNIT HEATER AND TURN OVER TO OWNER. DEMOLISH ASSOCIATED GAS PIPING, FLUE AND CONTROLS.
- 3 REMOVE SINK AND TURN OVER TO OWNER. DEMOLISH ASSOCIATED PIPING BACK TO MAINS AND CAP.
- 4 REMOVE SINK AND TURN OVER TO OWNER. DEMOLISH ASSOCIATED PIPING BACK TO MAINS AND CAP.
- 5 REMOVE UNIT HEATER. CLEAN AND RETAIN FOR REINSTALLATION.
- 6 REMOVE OIL FURNACE AND TURN OVER TO OWNER. DEMOLISH ASSOCIATED OIL PIPING, FLUE, AND CONTROLS.
- 7 DEMOLISH HEATING OIL TANK.
- 8 REMOVE HOSE REEL AND TURN OVER TO OWNER. DEMOLISH ASSOCIATED PIPING BACK TO MAIN AND CAP.



1 FIRST FLOOR PLAN - MECHANICAL - DEMO
1/8" = 1'-0"

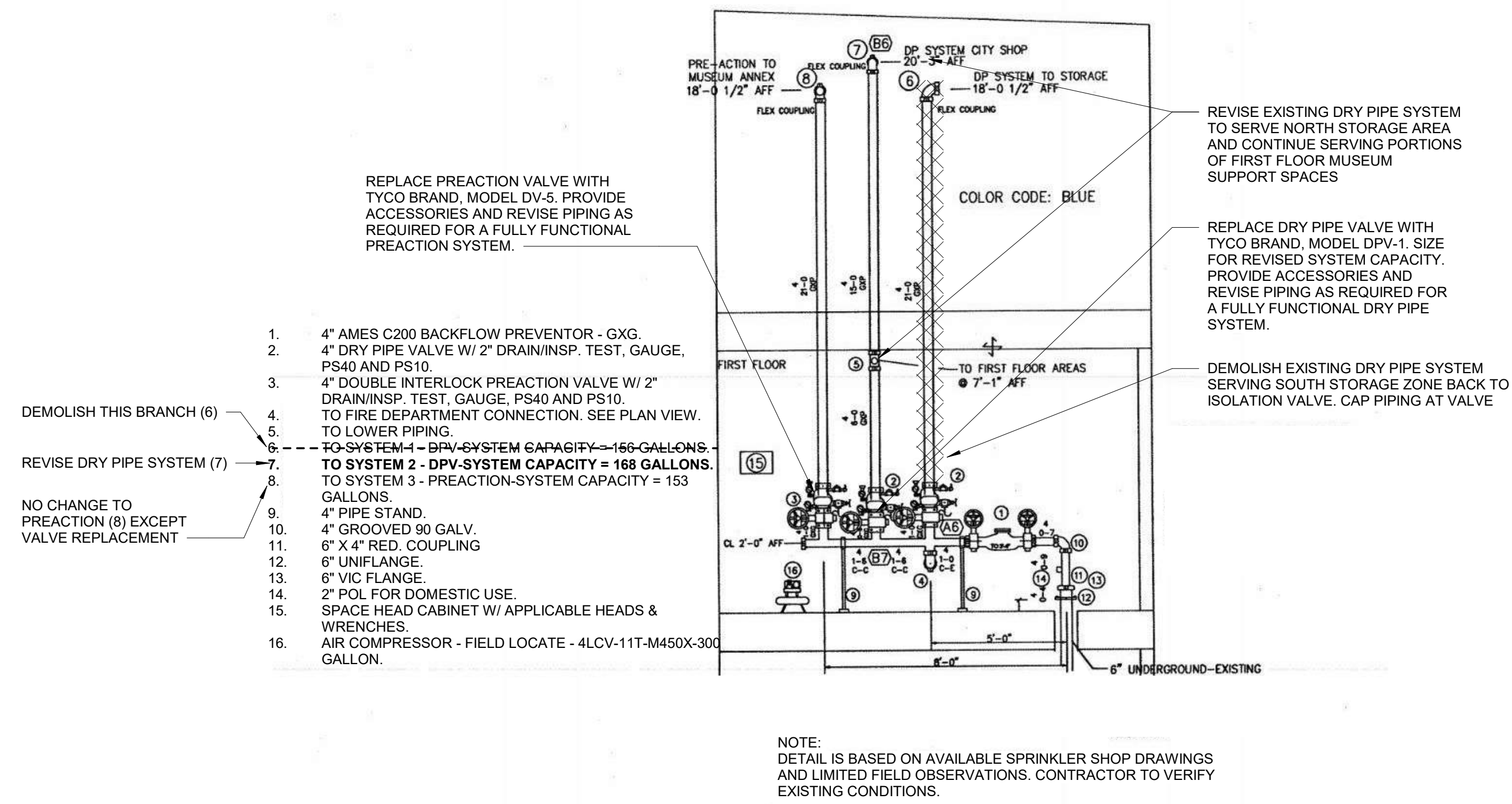


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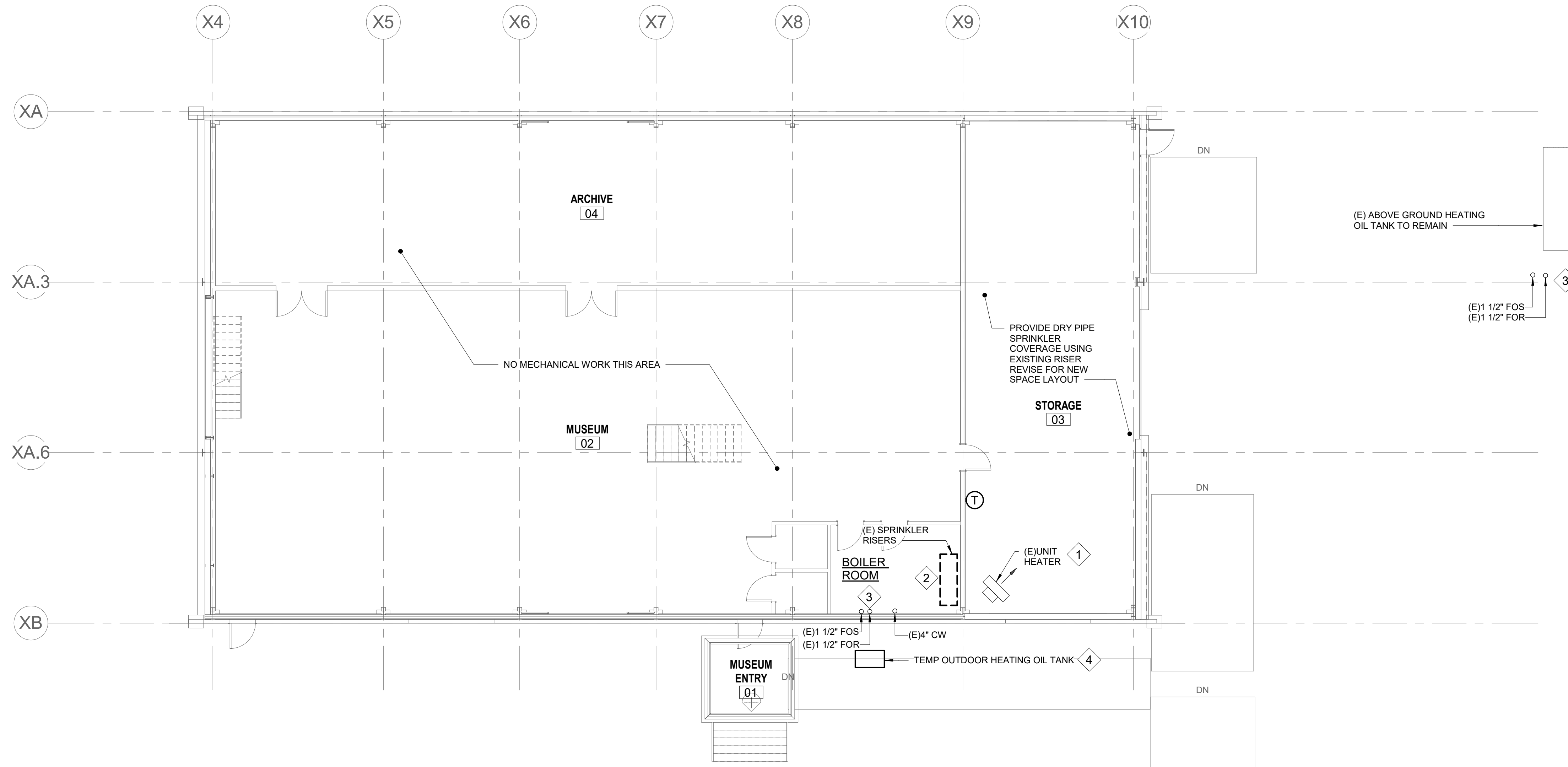
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FIRST FLOOR PLAN - MECHANICAL
 - DEMO
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2 EXISTING FIRE RISER DETAIL
NO SCALE



1 FIRST FLOOR PLAN - MECHANICAL
1/8" = 1'-0"

SHEET KEYNOTES

- 1 CLEAN AND REINSTALL EXISTING UNIT HEATER APPROXIMATELY 8 FEET ABOVE FINISH FLOOR. RECONNECT TO HYDRONIC HEAT PIPING. PROVIDE LINE VOLTAGE THERMOSTAT TO CYCLE FAN ON CALL FOR HEAT.
- 2 REPLACE PREACTION VALVE SERVING MUSEUM ANNEX. REPLACE DRY PIPE VALVE SERVING REDUCED NORTH ZONE. REMOVE DRY PIPE VALVE AND RISER SERVING FORMER SOUTH ZONE AND CAP BRANCH. REFER TO DETAIL OF EXISTING SYSTEM ON THIS SHEET.
- 3 PRESSURE TEST UNDERGROUND HEATING OIL LINES PRIOR TO RETURNING FUEL SYSTEM TO SERVICE. REPAIR LEAKS. FLUSH LINES AND REFILL WITH FUEL. RESTART HEATING SYSTEM.
- 4 PROVIDE TEMPORARY OUTDOOR HEATING OIL TANK DURING CONSTRUCTION. CONNECT TO EXISTING HEATING OIL DAY TANK IN BOILER ROOM. PROVIDE SECONDARY CONTAINMENT UNDER TANK. MAINTAIN OPERATION OF BOILER AND DAY TANK DURING CONSTRUCTION UNTIL EXISTING FUEL SYSTEM IS RETURNED TO FULL OPERATION.

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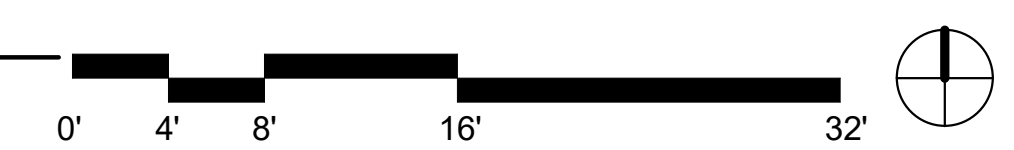
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FIRST FLOOR PLAN - MECHANICAL

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LIGHTING SYMBOLS	
	SURFACE LUMINAIRE
	SURFACE LUMINAIRE, EMERGENCY
	PENDANT LUMINAIRE
	PENDANT LUMINAIRE, EMERGENCY
	WALL MOUNTED LUMINAIRE
	WALL MOUNTED LUMINAIRE, EMERGENCY
	WALL MOUNTED LUMINAIRE
	WALL MOUNTED LUMINAIRE, EMERGENCY
	WALL MOUNTED EXIT SIGN, ARROW AS INDICATED

WIRING AND LIGHTING CONTROL DEVICE SYMBOLS	
S	SINGLE POLE SWITCH
S ₃	THREE-WAY SWITCH
S _a	SWITCH FOR LUMINAIRES MARKED "a"
	OCCUPANCY SENSOR, TYPE A COVERAGE INDICATED
	PHOTOELECTRIC SWITCH/CONTROL
	LIGHTING CONTACTOR
	EMERGENCY RELAY
	DUPLEX RECEPTACLE
	DOUBLE DUPLEX RECEPTACLE
	GROUND-FAULT CIRCUIT INTERRUPTER (GFCI) DUPLEX RECEPTACLE
	WET-LOCATION, WEATHERPROOF DUPLEX RECEPTACLE
	SPECIAL PURPOSE RECEPTACLE; NEMA TYPE AS INDICATED
	GFCI DOUBLE DUPLEX RECEPTACLE
	WET-LOCATION, WEATHERPROOF GFCI DUPLEX RECEPTACLE

SIGNALING SYMBOLS - COMMUNICATIONS	
	TELECOMMUNICATIONS OUTLET; QUANTITY OF JACKS INDICATED

FIRE ALARM SYMBOLS	
	FIRE ALARM SYSTEM CONTROL UNIT
	FIRE ALARM SYSTEM ANNUNCIATOR
	MANUAL FIRE ALARM BOX
	SMOKE DETECTOR
	DUCT MOUNTED SMOKE DETECTOR
	SINGLE-STATION SMOKE DETECTOR
	SINGLE-STATION SMOKE AND CARBON MONOXIDE DETECTOR
	HORN
	STROBE
	HORN/STROBE
	FIRE/SMOKE DAMPER - PROVIDED BY OTHERS, WIRED BY ELECTRICAL
	MAGNETIC DOOR HOLDER - PROVIDED BY OTHERS, WIRED BY ELECTRICAL
	SPRINKLER BELL - PROVIDED BY OTHERS, WIRED BY ELECTRICAL

POWER SYMBOLS	
	JUNCTION BOX/EQUIPMENT CONNECTION
	NONFUSIBLE SWITCH
	FUSIBLE SWITCH
	ENCLOSED CIRCUIT BREAKER
S _m	MOTOR-STARTING SWITCH, WITHOUT OVERLOAD PROTECTION
	MANUAL CONTROLLER, WITH OVERLOAD PROTECTION
	COMBINATION MAGNETIC MOTOR STARTER AND DISCONNECT
	MAGNETIC MOTOR STARTER
	MOTOR CONNECTION
	METER SOCKET
	BRANCH-CIRCUIT PANELBOARD; RECESSED, SURFACE
	DISTRIBUTION PANELBOARD
NL01-2,4	BRANCH CIRCUIT HOME RUN TO PANELBOARD; NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS, PANEL AND CIRCUIT AS SHOWN

MOUNTING HEIGHT SCHEDULE		
* SWITCHES		4'-0"
* CONVENIENCE OUTLETS		1'-6"
* WEATHERPROOF RECEPTACLES		2'-0"
* TELECOM OUTLETS (VOICE, DATA, VIDEO)		1'-6"
* MULTIOUTLET ASSEMBLY (MOA)		1'-6"
BRANCH PANELS (TOP)		6'-6"
DISCONNECT SWITCHES (TOP)		5'-6"
COMBINATION MAG. STARTER / DISC. SW. (TOP)		5'-6"
* MANUAL FIRE ALARM STATIONS		4'-0"
* FIRE ALARM HORN, BELL OR VISUAL SIGNALS (BOTTOM)		6'-8"

MOUNTING HEIGHTS SHALL PREVAIL ON ALL NEW CONSTRUCTION UNLESS OTHERWISE INDICATED.

MOUNTING HEIGHTS ARE TO CENTER AND ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED.

MOUNTING HEIGHTS FOR DEVICES ABOVE COUNTERS REQUIRED TO BE COORDINATED WITH ARCHITECTURAL ELEVATIONS.

MOUNTING HEIGHTS FOR DEVICES FOR EQUIPMENT REQUIRED TO BE COORDINATED WITH ARCHITECTURAL ELEVATIONS.

MOUNTING HEIGHTS FOR DEVICES ABOVE BASEBOARD HEATERS SHOULD BE 4" ABOVE HEATER, MOUNTED VERTICALLY.

THESE ARE TYPICAL MOUNTING HEIGHTS. NOT ALL DEVICES ARE NECESSARILY APPLICABLE TO THIS PROJECT.

* MOUNTING HEIGHTS COMPLY WITH ICC/ANSI A117.1-09

LINE TYPES	
	DEMO WORK
	EXISTING WORK
	NEW WORK

ABBREVIATIONS

#	NUMBER
(D)	DEMOLISH
(E)	EXISTING
(N)	NEW
(S)	SALVAGE
+C	ABOVE COUNTER
+XX	DIMENSIONED HEIGHT XX INCHES AFF
A	AMPERES
AC	ALTERNATING CURRENT
AF	AMP FRAME
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISH GRADE
AIC	AMPS INTERRUPTING CAPACITY
AL	ALUMINUM
AMP	AMPERES
APPX	APPROXIMATE
ARCH	ARCHITECTURAL
BCU	BARE COPPER WIRE
BLDG	BUILDING
BPB	BRANCH-CIRCUIT PANELBOARD, CB BRANCHES
C	CONDUIT
CAT	CATEGORY
CATV	CABLE TELEVISION
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CFOI	CONTRACTOR FURNISH OWNER INSTALL
CIRC	CIRCULATING
CKT	CIRCUIT
CNDR	CONDUCTOR
COAX	COAXIAL CABLE
CT	CURRENT TRANSFORMER
CTRL	CONTROL
CU	COPPER
CVEA	COPPER VALLEY ELECTRIC ASSOCIATION
CVTC	COPPER VALLEY TELEPHONE COOPERATIVE
DEGC	DEGREES CELSIUS
DEGF	DEGREES FAHRENHEIT
DISC	DISCONNECT
DWG	DRAWING
E	EAST
EBJ	EQUIPMENT BONDING JUMPER
EGB	EQUIPMENT GROUND BUS
EGC	EQUIPMENT GROUNDING CONDUCTOR
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
ENT	ELECTRICAL NONMETALLIC TUBING
ER	EMERGENCY RELAY (EM LIGHTING POWER TRANSFER)
EST	ESTIMATED
ETR	EXISTING TO REMAIN
FA	FIRE ALARM
FACU	FIRE ALARM CONTROL UNIT
FG	FINISH GRADE
FLA	FULL LOAD AMPS
FMC	FLEXIBLE METAL CONDUIT
FO	FIBER OPTIC
FTL	FEED-THRU LUGS
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GEC	GROUNDING ELECTRODE CONDUCTOR
GFCI	GROUND-FAULT CIRCUIT INTERRUPTER (5mA)
GFPE	GROUND-FAULT PROTECTION OF EQUIPMENT (30mA)
GND	GROUND OR GROUNDED
GRC	GALVANIZED RIGID STEEL CONDUIT (HOT-DIPPED)
HDPE	HIGH-DENSITY POLYETHYLENE
IDC	INITIATING DEVICE CIRCUIT
IFC	INTERNATIONAL FIRE CODE
IMC	INTERMEDIATE METALLIC CONDUIT
JB	JUNCTION BOX
KVA	KILOVOLT AMPERES
L	LINE
LC	LIGHTING CONTACTOR
LED	LIGHT EMITTING DIODE
LFMC	LIQUIDTIGHT FLEXIBLE METAL CONDUIT

ABBREVIATIONS

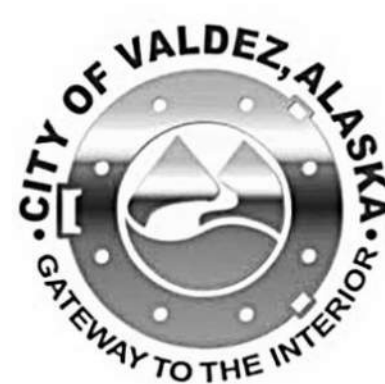
LFNC	LIQUIDTIGHT FLEXIBLE NONMETALLIC CONDUIT
LTG	LIGHTING
LV	LOW VOLTAGE
MAN	MANUAL
MAX	MAXIMUM
MC	METAL-CLAD
MCB	MAIN CIRCUIT BREAKER
MECH	MECHANICAL
MEZ	MEZZANINE
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
MTD	MOUNTED
MTS	MANUAL TRANSFER SWITCH
N	NEUTRAL, NORTH
NAC	NOTIFICATION APPLIANCE CIRCUIT (FIRE ALARM)
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE; NFPA 70
NECA	NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NESC	NATIONAL ELECTRICAL SAFETY CODE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NO	NORMALLY OPEN
OFCI	OWNER FURNISHED CONTRACTOR INSTALL
OFOI	OWNER FURNISHED OWNER INSTALL
P	POLE
PC	PHOTOELECTRIC CONTROL/SWITCH
PF	POWER FACTOR
PH	PHASE
PNL	PANEL(BOARD)
PVC	POLYVINYL CHLORIDE CONDUIT
RCPT	RECEPTACLE
REQD	REQUIRED
REV	REVISION, REVERSE
RM	ROOM
RMC	RIGID METAL CONDUIT (HOT-DIPPED GALVANIZED)
RMS	ROOT MEAN SQUARED
RU	RACK UNIT
S	SOUTH
SEC	SECONDARY
SFB	SUB-FEED CB
SFL	SUB-FEED DOUBLE LUGS
SHT	SHEET (REFER TO DRAWING)
SLC	SIGNALING LINE CIRCUIT (FA INITIATING)
SPEC	SPECIFICATION
STBY	STAND-BY
STP	SHIELDED TWISTED PAIR
SVD	SERVICE DISCONNECT
SW	SWITCH
SWD	SWITCHED
TBB	TELECOMMUNICATIONS BONDING BACKBONE CABLE
TEBB	TELECOMMUNICATIONS BACKBOARD
TEL	TELEPHONE
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
TYP	TYPICAL
UG	UNDERGROUND
UL	UNDERWRITERS' LABORATORIES
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTP	UNSHIELDED TWISTED PAIR
V	VOLTS
VA	VOLT AMPERES
VFC	VARIABLE FREQUENCY CONTROLLER
W	WATT, WEST or WIRE
W/	WITH
W/O	WITHOUT
WH	WATTHOUR
WP	WEATHERPROOF
XFMR	TRANSFORMER
xPyT	x POLE y THROW (x and y indicate quantity)

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GENERAL NOTES AND SPECIFICATIONS

1. GENERAL REGULATORY REQUIREMENTS
 - A. COMPLY WITH NFPA 70, NATIONAL ELECTRICAL CODE 2017 EDITION; NECA 1, STANDARD FOR GOOD WORKMANSHIP IN ELECTRICAL CONSTRUCTION; AND NATIONAL ELECTRICAL SAFETY CODE.
 - B. ELECTRICAL COMPONENTS, DEVICES, ASSEMBLIES, AND ACCESSORIES ARE REQUIRED TO BE LISTED AND LABELED AS DEFINED IN NFPA 70, ARTICLE 100, BY A TESTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, AND MARKED FOR INTENDED USE.
 - C. DELIVER, STORE, PROTECT, AND HANDLE PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. PROTECT PRODUCTS FROM WEATHER.
 - D. ACCEPT PRODUCTS ON SITE IN MANUFACTURER'S PACKAGING. INSPECT FOR DAMAGE. NOTIFY PROJECT MANAGER OF ALL DAMAGED PRODUCTS.
 - E. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY; WHAT IS REQUIRED BY ONE IS AS BINDING AS IF REQUIRED BY ALL.
 - F. DRAWINGS SHOW THE GENERAL LOCATIONS OF THE ELECTRICAL FEATURES ONLY, UNLESS OTHERWISE INDICATED. MAKE MINOR RELOCATIONS AS REQUIRED FOR PROJECT CONDITIONS WHEN NECESSARY TO PRESENT SYMMETRICAL APPEARANCE OR TO AVOID INTERFERENCE WITH OTHER INSTALLATIONS.
 - G. REVIEW AND COORDINATE THIS WORK WITH ALL ASSOCIATED ARCHITECTURAL AND MECHANICAL WORK AND ALL OTHER DRAWINGS AND SPECIFICATIONS. ADJUST THE WORK AS REQUIRED TO COORDINATE WITH OTHER WORK AND BE COMPATIBLE WITH CONDITIONS.
 - H. WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL STATE, FEDERAL, AND OSHA SAFETY REQUIREMENTS.
 - I. CONTRACTOR COORDINATION
 1. CONTRACTOR SHALL COORDINATE START-UP AND ENERGIZING OF ALL ELECTRICAL EQUIPMENT WITH PROJECT MANAGER.
 2. CONTRACTOR SHALL COORDINATE POWER OUTAGES AND DE-ENERGIZING OF ALL EXISTING ELECTRICAL EQUIPMENT WITH PROJECT MANAGER.
2. SUBMITTALS
 - A. SUBMIT AN ELECTRONIC VERSION OF PRODUCT DATA FOR REVIEW AND APPROVAL.
3. DEMOLITION
 - A. EXISTING ELECTRICAL CONDITIONS BASED ON AS-BUILT DOCUMENTS AND LIMITED FIELD OBSERVATION BY THE ENGINEER. CONTRACTOR SHALL FIELD VERIFY.
 - B. DEMOLISH ELECTRICAL EQUIPMENT ON THE DEMOLITION PLANS SHOWN IN DASHED LINES AND ALL ASSOCIATED CONDUCTORS AND RACEWAY, UNLESS OTHERWISE INDICATED.
 - C. ELECTRICAL EQUIPMENT ON THE DEMOLITION PLAN SHOWN IN THIN SOLID LINES INDICATES EXISTING TO REMAIN.
 - D. DEMOLISH ELECTRICAL EQUIPMENT ON THE DEMOLITION DETAILS SHOWN HATCHED AND ALL ASSOCIATED CONDUCTORS AND RACEWAY, UNLESS OTHERWISE INDICATED.
 - E. RECONNECT AND LABEL EXISTING BRANCH CIRCUITS NOT BEING REMOVED WHICH PASS THROUGH, OR CONNECT INTO, THE PROJECT AREA. RACEWAY MAY BE REUSED IN PLACE IF NOT RENDERED UNUSABLE DUE TO OTHER DEMOLITION AND COMPLIES WITH CONTRACT DOCUMENTS. REUSED RACEWAY SHALL BE IN LIKE-NEW, OR REPAIRED TO LIKE-NEW CONDITION BEFORE INSTALLING CONDUCTORS.
 - G. SALVAGE SHALL MEAN REMOVE WITHOUT DAMAGE DURING DEMOLITION AND REUSE DURING NEW CONSTRUCTION.
 - H. ELECTRICAL EQUIPMENT REMOVED AND DEEMED UNUSABLE BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND BE PROPERLY DISPOSED OF. EQUIPMENT DEEMED USABLE BY THE OWNER SHALL BE DELIVERED WITHOUT DAMAGE TO A LOCATION DESIGNATED BY THE OWNER, UNLESS OTHERWISE INDICATED.
4. CONDUCTORS AND CABLES
 - A. CONDUCTOR MATERIAL: COPPER. SOLID FOR NO. 10 AWG AND SMALLER; STRANDED FOR NO. 8 AWG AND LARGER.
 - B. INSULATION AND APPLICATION
 1. FEEDERS: TYPE XHHW-2, SINGLE CONDUCTORS IN RACEWAY.
 2. BRANCH CIRCUITS: HEATED SPACES SHALL BE TYPE THHN-2/THWN-2 OR XHHW-2, UNHEATED AND EXTERIOR LOCATIONS SHALL BE TYPE XHHW-2; SINGLE CONDUCTORS IN RACEWAY.
 3. UNDERGROUND BRANCH CIRCUITS: TYPE XHHW-2, SINGLE CONDUCTORS IN RACEWAY.
 - C. METAL-CLAD CABLE, TYPE MC
 1. CONDUCTORS: COPPER, COMPLYING WITH ASTM B 3 FOR BARE ANNEALED COPPER AND WITH ASTM B 8 FOR STRANDED CONDUCTORS.
 2. GROUND CONDUCTOR: BARE.
 3. CONDUCTOR INSULATION: TYPE TFN/THHN/THWN-2; COMPLY WITH UL 83.
 4. ARMOR: STEEL, INTERLOCKED.
 5. JACKET: PVC APPLIED OVER ARMOR.
 - D. ARMORED CABLE, NEC TYPE MC-HL
 1. PVC JACKETED ARMORED CABLE, ALUMINUM ARMOR, XPLE INSULATION.
 2. XPLE CONDUCTOR INSULATION IN ACCORDANCE WITH ICEA S-95-658 AND UL 44 FOR TYPE XHHW-2.
 3. UL APPROVED AND MARKED THE FT-4 FLAME TEST DESIGNATION.
 4. UL APPROVED AND MARKED MINUS 40 DEG C MEETING THE COLD IMPACT REQUIREMENTS OF CSA-C22.2 NO. 0.3.
 5. ROCKBESTOS-SURPRENANT GARDEX-CC SPEC RSS-8-001, AS REQUIRED FOR APPLICATION.
 - E. INSTALLATION
 1. CONCEAL CABLES IN FINISHED WALLS, CEILINGS, AND FLOORS, UNLESS OTHERWISE INDICATED.
 2. NEUTRAL CONDUCTORS SHALL NOT BE SHARED BETWEEN BRANCH CIRCUITS, UNLESS OTHERWISE INDICATED.
 3. PROVIDE INSULATED EQUIPMENT GROUNDING CONDUCTORS WITH ALL FEEDERS AND BRANCH CIRCUITS. TERMINATE EACH END ON SUITABLE LUG, BUS OR BUSHING. SIZE EQUIPMENT GROUNDING CONDUCTORS IN ACCORDANCE WITH NEC, UNLESS OTHERWISE INDICATED, BUT NOT SMALLER THAN NO. 12 AWG.
 4. MINIMUM CONDUCTOR SIZE FOR BRANCH CIRCUITS: NO. 12 AWG.
 - A. USE NO. 10 AWG MINIMUM FOR 15 OR 20 AMPERE, 120 VOLT BRANCH CIRCUITS LONGER THAN 65 FEET, BUT NOT GREATER THAN 100 FEET.
 - B. USE NO. 8 AWG MINIMUM FOR 15 OR 20 AMPERE, 120 VOLT BRANCH CIRCUITS LONGER THAN 100 FEET UNLESS OTHERWISE INDICATED.
 5. SPLICES
 - A. SPLICES ARE PERMITTED ON THIS PROJECT WHERE EXISTING FEEDERS AND BRANCH CIRCUITS ARE TO REMAIN. PROVIDE UL LISTED CONNECTIONS AT EACH SPLICE CONNECTION. PROVIDE SPLICES IN NEC SIZED JUNCTION BOXES.
 - F. MC CABLE MAY BE USED BETWEEN OUTLET AND DEVICE BOXES FOR BRANCH CIRCUITS CONCEALED IN WALLS (EXCLUDING EXTERIOR WALLS).
 - G. FIELD QUALITY CONTROL: AFTER INSTALLING CONDUCTORS AND CABLES AND BEFORE ELECTRICAL CIRCUITRY HAS BEEN ENERGIZED, TEST FOR UNINTENDED OPENS, SHORTS, AND GROUNDS.
5. GROUNDING AND BONDING
 - A. INSULATED CONDUCTORS: COPPER WIRE OR CABLE INSULATED FOR 600 V UNLESS OTHERWISE INDICATED.
 - B. CONNECTORS: LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING LABORATORY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION FOR APPLICATIONS IN WHICH USED, AND FOR SPECIFIC TYPES, SIZES, AND COMBINATIONS OF CONDUCTORS AND OTHER ITEMS CONNECTED.
 - C. GROUND RODS: COPPER-CLAD STEEL; 3/4 INCH BY 10 FEET.
 - D. INSTALLATION
 1. PROVIDE INSULATED EQUIPMENT GROUNDING CONDUCTORS WITH ALL FEEDERS AND BRANCH CIRCUITS. TERMINATE EACH END ON SUITABLE LUG, BUS OR BUSHING. SIZE EQUIPMENT GROUNDING CONDUCTORS IN ACCORDANCE WITH NEC, UNLESS OTHERWISE INDICATED, BUT NOT SMALLER THAN NO. 12 AWG.
6. RACEWAY
 - A. RMC: COMPLY WITH ANSI C80.1 AND UL 6. HOT-DIPPED ZINC GALVANIZED.
 - B. IMC: COMPLY WITH ANSI C80.6 AND UL 1242, ZINC-COATED STEEL WITH THREADED FITTINGS.
 - C. EMT: COMPLY WITH ANSI C80.3 AND UL 797 ZINC-COATED STEEL.
 - D. FMC: COMPLY WITH UL 1; ZINC-COATED STEEL.
 - E. LFMC: ZINC-COATED STEEL WITH SUNLIGHT-RESISTANT AND MINERAL-OIL-RESISTANT PLASTIC JACKET, WORKING TEMPERATURE RANGE -55 DEG C TO 105 DEG C AND COMPLYING WITH UL 360.
 - F. CONTINUOUS HDPE: TYPE SCHEDULE 80, COMPLY WITH UL 651A.
 - G. FITTINGS FOR METAL CONDUIT: COMPLY WITH NEMA FB 1 AND UL 514B.
 - H. FITTINGS FOR HDPE: MECHANICAL TYPE.
 - I. INSTALLATION
 1. OUTDOORS:
 - A. ABOVEGROUND USE IMC OR RMC, UNLESS OTHERWISE INDICATED.
 - B. UNDERGROUND USE RMC OR HDPE UNLESS OTHERWISE INDICATED.
 1. FOR UNDERGROUND USE OF HDPE; THE SWEEPS, ELBOWS, AND ABOVE GRADE CONDUIT FOR CONDUIT RUNS OF HDPE SHALL BE RMC.
 2. INDOOR DRY LOCATIONS: USE IMC OR EMT UNLESS OTHERWISE INDICATED.

3. MINIMUM RACEWAY SIZE:
 - A. 1/2-INCH TRADE SIZE.
 - B. 3/4-INCH TRADE SIZE HOMERUN TO PANELBOARD.
4. COMPLETE RACEWAY INSTALLATION BEFORE STARTING CONDUCTOR INSTALLATION.
5. USE MINIMUM OF 18 INCHES TO MAXIMUM OF 72 INCHES OF FMC FOR CONNECTION TO VIBRATING EQUIPMENT (INCLUDING MOTOR-DRIVEN EQUIPMENT).
6. USE LFMC IN DAMP OR WET LOCATIONS FOR CONNECTION TO VIBRATING EQUIPEMNT (INCLUDING MOTOR-DRIVEN EQUIPMENT).
7. HDPE CONDUIT SHALL BE RUN THROUGH APPROVED RE-ROUNDING AND STRAIGHTENING EQUIPMENT DURING INSTALLATION.
7. BOXES
 - A. SHEET METAL OUTLET AND DEVICE BOXES: NEMA OS 1, DEEP TYPE; FOR USE WITH CONCEALED RACEWAYS AND FOR BOXES EXPOSED ON CEILINGS.
 - B. CAST-METAL OUTLET AND DEVICE BOXES: NEMA FB 1, THREADED HUB, TYPE FD, WITH GASKETED COVER; FOR USE WITH EXPOSED CONDUIT.
8. PANELBOARDS
 - A. PANELBOARDS, SPECIFICATION TYPE BPB; CIRCUIT BREAKER BRANCHES, SQUARE D PANELBOARD TYPES NQ, OR EQUAL.
 - B. GENERAL REQUIREMENTS
 1. ENCLOSURES: NEMA 250, TYPE 1, UNLESS OTHERWISE INDICATED TO COMPLY WITH ENVIRONMENTAL CONDITIONS AT INSTALLED LOCATION.
 2. HINGED FRONT COVER: ENTIRE FRONT TRIM HINGED TO BOX AND WITH STANDARD DOOR WITHIN HINGED TRIM COVER.
 3. PHASE, NEUTRAL, AND GROUND BUSES
 - A. MATERIAL: TIN-PLATED ALUMINUM.
 - B. EQUIPMENT GROUND BUS: ADEQUATE FOR FEEDER AND BRANCH-CIRCUIT EQUIPMENT GROUND CONDUCTORS; BONDED TO BOX.
 4. ALL CONDUCTOR TERMINATIONS SHALL BE LISTED AND LABELED FOR WIRE RATED 75 DEG C.
 - C. INSTALLATION: INSTALL PANELBOARDS AND ACCESSORIES ACCORDING TO NECA 407.
 - D. FIELD QUALITY CONTROL:
 1. PERFORM EACH VISUAL AND MECHANICAL INSPECTION AND ELECTRICAL TEST IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
 2. NEW BREAKERS IN EXISTING PANELS SHALL BE OF THE SAME MANUFACTURER AND LISTED FOR THE EXISTING PANEL AND SHALL BE OF AN INTERRUPTING CAPACITY SUITABLE TO THE APPLICATION.
9. ELECTRICITY METERING
 - A. METER SOCKET: NEMA 3R WITH PROVISIONS FOR SEALS.
 - B. CURRENT TRANSFORMER CABINET: NEMA 3R WITH PROVISION FOR SEALS.
 - C. SERVICE DISCONNECT: NEMA 3R.
 - D. FIELD QUALITY CONTROL
 1. COMPLY WITH REQUIREMENTS OF ELECTRICAL-POWER UTILITY COMPANY.
 2. HUBS AND RACEWAY FITTINGS SHALL BE OF THE WET LOCATION SEALING TYPE.
10. WIRING DEVICES
 - A. STRAIGHT BLADE RECEPTACLES, 125 V, 20A: SPECIFICATION-GRADE, COMPLY WITH NEMA WD 1, NEMA WD 6 CONFIGURATION 5-20R, UL 498, AND FS W-C-596.
 - B. GFCI RECEPTACLES, 125 V, 20A: SPECIFICATION-GRADE, COMPLY WITH NEMA WD 1, NEMA WD 6, UL 498, UL 943 CLASS A, FS W-C-596, AND INCLUDE INDICATOR LIGHT THAT SHOWS WHEN THE GFCI HAS MALFUNCTIONED AND NO LONGER PROVIDES PROPER GFCI PROTECTION.
 - C. MANUAL SWITCHES, 120/277 V, 20 A: COMPLY WITH FEDERAL SPEC WS896, NEMA WD 1, AND UL 20.
 - D. WALL PLATES
 1. MATERIAL FOR FINISHED SPACES: 0.035-INCH-THICK, SATIN-FINISHED STAINLESS STEEL.
 2. MATERIAL FOR UNFINISHED SPACES: GALVANIZED STEEL. PROVIDE MATCHING CAST COVERS FOR CAST METAL BOXES.
 - E. WET-LOCATION, WEATHERPROOF COVER PLATES: NEMA 250, COMPLYING WITH TYPE 3R, WEATHER-RESISTANT, "EXTRA DUTY" DIE-CAST ALUMINUM WHILE-IN-USE WITH LOCKABLE COVER.
 - F. FINISHES: FACTORY STANDARD FINISH, UNLESS OTHERWISE INDICATED OR REQUIRED BY NFPA 70 OR DEVICE LISTING.
 - G. INSTALLATION
 1. GROUND FAULT RECEPTACLES SHALL NOT BE THROUGH WIRED. PROVIDE INTEGRAL PROTECTION AT EACH GROUND FAULT RECEPTACLE LOCATION SHOWN ON THE DRAWINGS.
 2. ARRANGEMENT OF DEVICES: UNLESS OTHERWISE INDICATED, MOUNT FLUSH, WITH LONG DIMENSION VERTICAL AND WITH GROUNDING TERMINAL OF RECEPTACLES ON BOTTOM. GROUP ADJACENT SWITCHES UNDER SINGLE, MULTIGANG WALL PLATES.
 - H. FIELD QUALITY CONTROL
 1. GFCI TRIP: USING A TEST PLUG TEST FOR TRIPPING VALUES SPECIFIED IN UL 1436 AND UL 943.
 2. USING THE TEST PLUG, VERIFY THAT THE DEVICE AND ITS OUTLET BOX ARE SECURELY MOUNTED.
 3. THE TESTS SHALL BE DIAGNOSTIC, INDICATING IMPROPER WIRING, DEFECTIVE DEVICES, OR SIMILAR PROBLEMS. CORRECT CIRCUIT CONDITIONS, REMOVE MALFUNCTIONING UNITS AND REPLACE WITH NEW ONES, AND RETEST AS SPECIFIED ABOVE.
11. ENCLOSED CONTROLLERS
 - A. GENERAL REQUIREMENTS: COMPLY WITH NEMA ICS 2, GENERAL PURPOSE, CLASS A.
 - B. ALL MOTOR BRANCH CIRCUIT CONDUCTOR TERMINATIONS SHALL BE LISTED AND LABELED FOR WIRE RATED 75 DEG C.
 - C. MOTOR-STARTING SWITCHES; WITHOUT OVERLOAD PROTECTION: "QUICK-MAKE, QUICK-BREAK" TOGGLE OR PUSH-BUTTON ACTION; MARKED TO SHOW WHETHER UNIT IS OFF OR ON.
 1. RED PILOT LIGHT, ILLUMINATED WHEN THE CONTROLLER IS ON.
 2. HANDLE GUARD/LOCK-OFF: ACCEPTS PADLOCK.
 - D. MANUAL CONTROLLERS: "QUICK-MAKE, QUICK-BREAK" TOGGLE OR PUSH-BUTTON ACTION; MARKED TO SHOW WHETHER UNIT IS OFF, ON, OR TRIPPED.
 1. OVERLOAD RELAYS: INVERSE-TIME-CURRENT CHARACTERISTICS; NEMA ICS 2, CLASS 20 TRIPPING CHARACTERISTICS; HEATERS MATCHED TO NAMEPLATE FULL-LOAD CURRENT OF ACTUAL PROTECTED MOTOR; EXTERNAL RESET PUSH BUTTON.
 2. RED PILOT LIGHT, ILLUMINATED WHEN THE CONTROLLER IS ON.
 3. HANDLE GUARD/LOCK-OFF, FRACTIONAL HORSEPOWER: ACCEPTS PADLOCK.
 4. LOCK-OFF MECHANISM, INTEGRAL HORSEPOWER: ACCEPTS PADLOCK.
 - E. ENCLOSURES: NEMA ICS 6, TYPE 1, UNLESS OTHERWISE INDICATED TO COMPLY WITH ENVIRONMENTAL CONDITIONS AT INSTALLED LOCATION.
 1. OUTDOOR LOCATIONS: TYPE 3R.
 2. OTHER WET OR DAMP INDOOR LOCATIONS: TYPE 4.
 - F. ACCESSORIES
 1. PUSH BUTTONS, LED TYPE PILOT LIGHTS, AND ROTARY SELECTOR SWITCHES: HEAVY-DUTY, OILTIGHT TYPE.
 2. TWO REVERSIBLE N.C./N.O. AUXILIARY CONTACTS.
 3. CONTROL RELAYS: AUXILIARY AND ADJUSTABLE TIME-DELAY RELAYS, AS REQUIRED.
 - G. FIELD QUALITY CONTROL: PERFORM EACH VISUAL AND MECHANICAL INSPECTION AND ELECTRICAL TEST IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
12. LIGHTING
 - A. FURNISH AND INSTALL LUMINAIRES AS SPECIFIED IN THE LUMINAIRE SCHEDULE ON THE DRAWINGS.
 - B. INSTALLATION
 1. SET LEVEL, PLUMB, AND SQUARE WITH CEILINGS AND WALLS.
 - C. CENTRAL LIGHTING INVERTER
 1. COMPLY WITH UL 924; 90 MINUTE RUN-TIME.
 2. SIZE AND VOLTAGE AS SPECIFIED ON THE DRAWINGS.
 3. 1 NORMALLY ON OUTPUT, 1 NORMALLY OFF OUTPUT.
 - D. CONTRACTOR
 1. PROVIDE WITH AT LEAST 4 POLES.
 2. PROVIDE WITH HAND-OFF-AUTO SELECTOR SWITCH ON FRONT OF ENCLOSURE.
 3. PROVIDE IN NEMA 1 ENCLOSURE.
13. DIGITAL, ADDRESSABLE FIRE-ALARM SYSTEM
 - A. EXISTING FIRE ALARM PANEL IS TO REMAIN. EXISTING PANEL IS AN IDENTIFLEX 610 PANEL.
 - B. A FEW DEVICES ARE BEING REMOVED FROM THE SYSTEM PER DRAWINGS.
 - C. PROVIDE PROGRAMMING ADJUSTMENTS REQUIRED FOR REDUCTION OF DEVICES.
 - D. COMPLY WITH NFPA 72 INCLUDING UPDATING BATTERY CALCULATIONS.
 - E. INSTALLER QUALIFICATIONS: PERSONNEL SHALL BE TRAINED AND CERTIFIED BY MANUFACTURER TO WORK ON PANEL AND ASSOCIATED DEVICES.
 - F. PROVIDE UPDATED SHOP DRAWINGS AND O&M MANUALS.
14. COMMUNICATION
 - A. PROVIDE WALL MOUNTED COMMUNICATION CABINET AS SHOWN ON THE DRAWINGS. PROVIDE WITH A 1 RU GROUND BUS BAR IF NOT INTEGRAL WITH COMMUNICATION CABINET.
 - B. PROVIDE WITH EQUIPMENT INDICATED ON COMMUNICATION RISER.
 - C. PROVIDE A MINIMUM OF CATEGORY 5E FOR CABLING TO NEW COMMUNICATION JACKS, PATCH PANEL, AND PATCH CORDS. PATCH CORDS SHALL BE AT LEAST 5 FEET LONG (QUANTITY OF AT LEAST 4 PATCH CORDS).

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ECI ARCHITECTURE DESIGN STRATEGY

3909 ARCTIC BOULEVARD, SUITE 103

ANCHORAGE, ALASKA 99503 907.561.5543
PROJECT NO. 17-0009.01

CITY OF VALDEZ

WAREHOUSE 1 REMODEL

436 S HAZLET
VALDEZ, AK 99686

CONSTRUCTION DOCUMENTS



SHEET SPECIFICATIONS

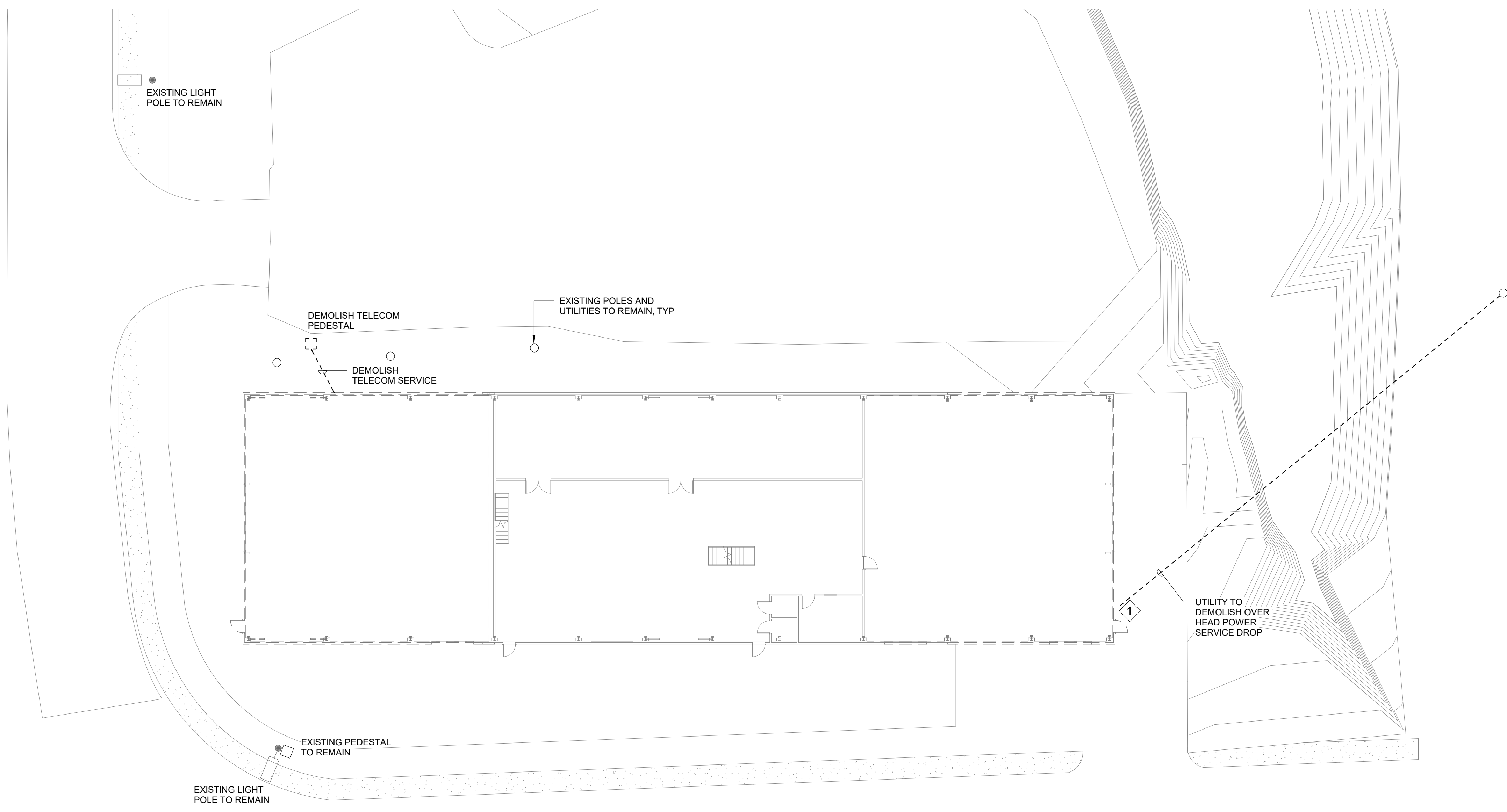
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AUTHOR: JDS

REVISION:

ISSUE DATE: 06.04.2019

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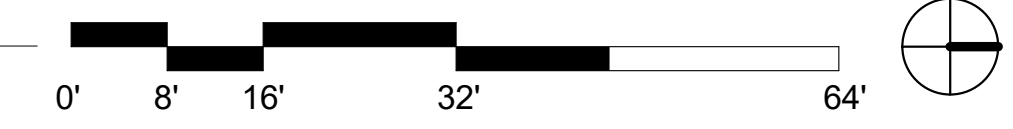
SHEET NOTES

1. CONTRACTOR AND OWNER TO COORDINATE TEMPORARY UTILITY SERVICE WITH CVEA AND CVTC TO SUPPORT CONTINUED OPERATIONS OF MUSEUM SPACE THROUGHOUT DEMOLITION AND CONSTRUCTION.

SHEET KEYNOTES x

1. SEE SHEET E2.02 FOR LOCATION OF DEMOLISHED METERS.

1 ELECTRICAL SITE PLAN - DEMO
1/16" = 1'-0"

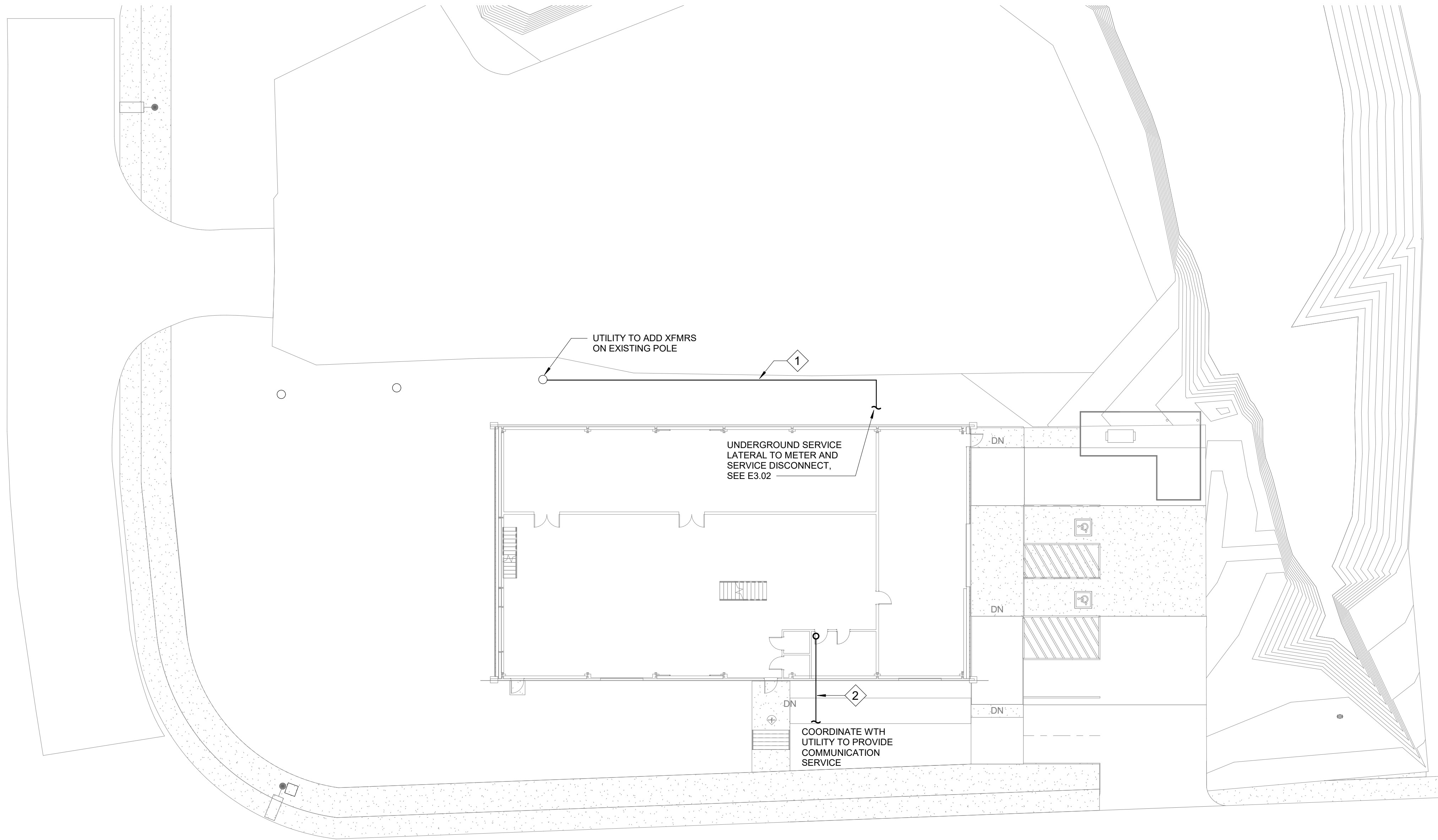


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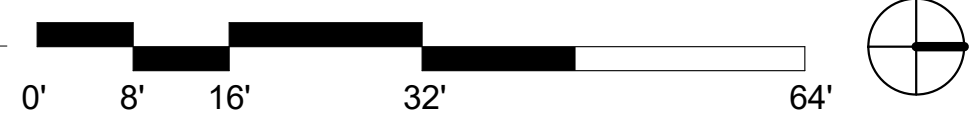
SHEET NOTES

1. COORDINATE NEW UTILITY SERVICES WITH CVEA, CVTC, AND CIVIL.

SHEET KEYNOTES x

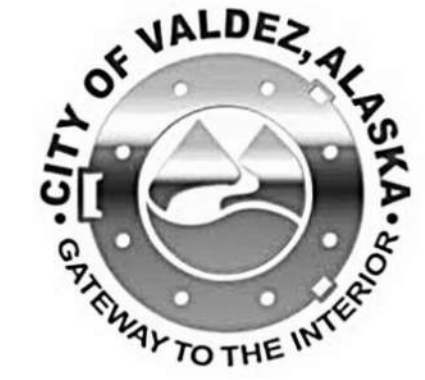
1. APPROXIMATE LOCATION OF UNDERGROUND ELECTRICAL POWER SERVICE, COORDINATE WITH CVEA.
2. APPROXIMATE LOCATION OF UNDERGROUND TELECOM SERVICE, COORDINATE WITH CVTC.

1 ELECTRICAL SITE PLAN
1/16" = 1'-0"



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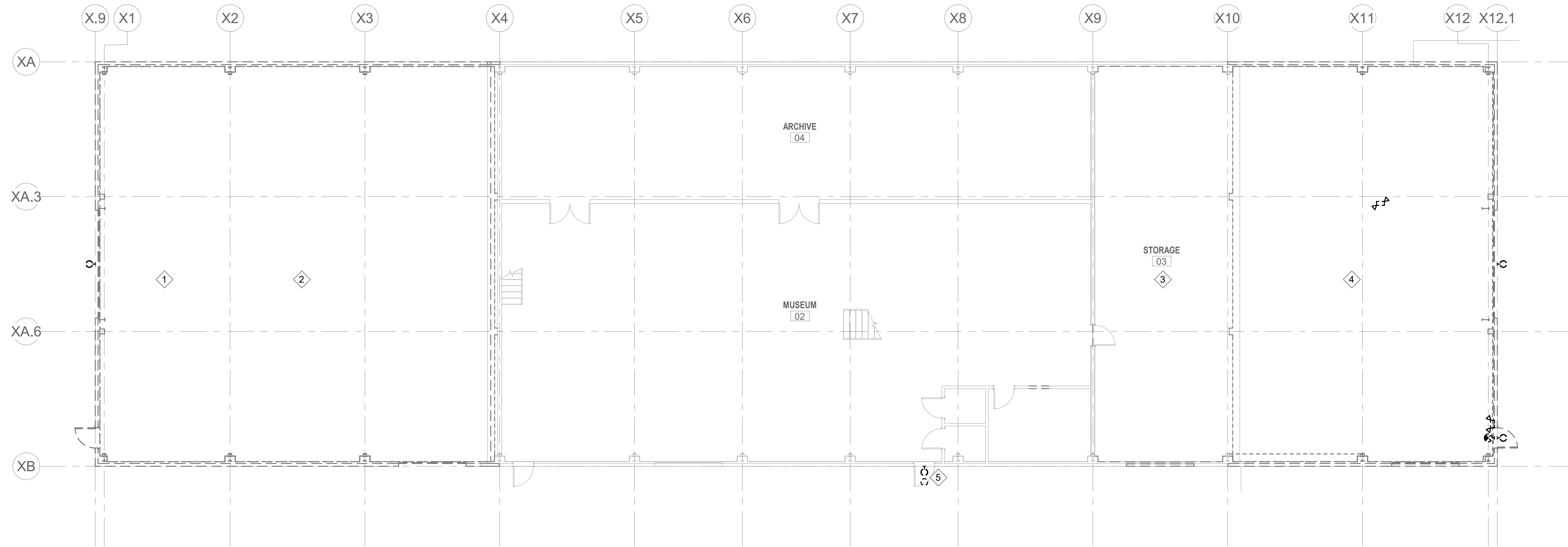
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SHEET NOTES

1. INTERIOR LIGHTING AND CONTROLS BETWEEN GRIDS X.4 AND X.9, XA AND XB ARE EXISTING TO REMAIN.

SHEET KEYNOTES x

1. DEMOLISH 12 @ 3-LAMP FLUORESCENT INDUSTRIALS AND ASSOCIATED SWITCHES FROM THE UPPER SPACE IN THIS PORTION OF THE BUILDING.
2. DEMOLISH 4 @ 4-LAMP FLUORESCENT WRAPS AND 9 @ 1-LAMP GLOBE FIXTURES AND ASSOCIATED SWITCHES FROM THE LOWER SPACES IN THIS PORTION OF THE BUILDING.
3. DEMOLISH 18 @ 3-LAMP FLUORESCENT INDUSTRIALS AND ASSOCIATED SWITCHES FROM THE UPPER SPACE IN THIS PORTION OF THE BUILDING.
4. DEMOLISH 29 @ 3-LAMP FLUORESCENT WRAPS AND ASSOCIATED SWITCHES FROM THE LOWER SPACES IN THIS PORTION OF THE BUILDING.
5. DEMOLISH EXTERIOR LIGHTS AT CANOPY.



1 FIRST FLOOR - LIGHTING - DEMO
1/8" = 1'-0"

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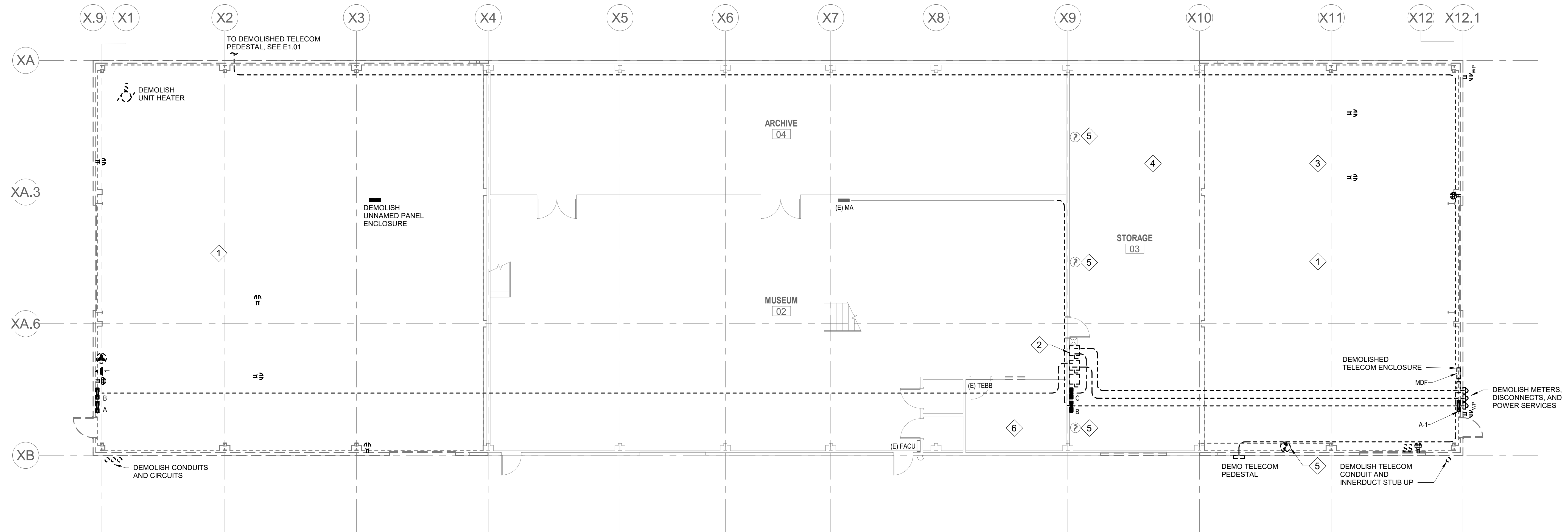
E2.01

SHEET NOTES

1. DEVICES AND EQUIPMENT BETWEEN GRIDS X.4 AND X.9, XA AND XB ARE EXISTING TO REMAIN, UNLESS NOTED OTHERWISE.
2. DEMOLISH POWER TO OVERHEAD DOOR MOTORS AND ASSOCIATED CONTROLS IN PLAN NORTH AND PLAN SOUTH THIRDS OF THE BUILDING.

SHEET KEYNOTES x

1. DEMOLISH ALL ITEMS IN THIS PORTION OF THE BUILDING. ITEMS OBSERVED FROM INITIAL WALK THROUGH ARE NOTED BUT OTHERS LIKELY EXIST (CONCEALED BEHIND ITEMS).
2. DEMOLISH 3 FUSED DISCONNECT SWITCHES AND ASSOCIATED FEEDERS FROM THIS APPROXIMATE LOCATION (60A, 100A, AND 200A).
3. DEMOLISH 8 QUAD RECEPTACLES, 1 DUPLEX RECEPTACLE, AND 1 @ 1-PORT PHONE OUTLET FROM THIS AREA (LOWER).
4. DEMOLISH 4 QUAD RECEPTACLES AND 1 DUPLEX RECEPTACLE FROM THIS AREA (LOWER).
5. WALL MOUNTED SMOKE DETECTOR (ETR).
6. (E) BOILER RM COMPRESSOR FED FROM PANEL A-1, CIRCUIT 10, WITH 30 AMP BREAKER. PROVIDE TEMPORARY POWER TO EQUIPMENT DURING CONSTRUCTION. RE-FEED CIRCUIT FROM PANEL MDP, SEE SHEET E3.02.



1 FIRST FLOOR - POWER AND SIGNAL - DEMO
1/8" = 1'-0"

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DEMOLITION - POWER/SIGNAL
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 CHECKED: BKH
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LUMINAIRE SCHEDULE					
TYPE MARK	LOAD	DESCRIPTION	MANUFACTURER	MODEL NUMBER	MOUNTING TYPE
EX1	1	WHITE THERMOPLASTIC LED EXIT SIGN, RED LETTERS, DUAL VOLTAGE, NICKEL CADMIUM BATTERY	LITHONIA	LQM-S-W-3-R-120/277-ELN	+2" ABOVE DOOR FRAME TO BOTTOM
N1	81	8' LINEAR STRIP LED, FROSTED DIFFUSE DROP LENS, 10,000 LUMENS, 0-10V DIMMING, 40K, 80 CRI, MVOLT, WITH MOUNTING ACCESSORY ZACVH	LITHONIA	TZL1D-L96-10000LM-FST-MVOLT-40K-80CRI-WH	PENDANT TO 22' AFF
S1	15	37-3/8" LONG X 2-5/16" WIDE X 3-1/2" DEPTH LINEAR LED, WHITE 4000K, ALUMINUM HOUSING, 30° X 30° DISTRIBUTION, 5W/FT OUTPUT, MVOLT, 0-10V DIMMING. COORDINATE FINISH WITH ARCHITECTURAL INCLUDING CUSTOM FINISH OPTIONS.	LUMENPULSE	LOG-ASHRAE-120-36-40K-30X30-UMP-DIM-ETE-CRC	SURFACE, CANOPY
W1	12	8-1/2" TALL X 17" WIDE X 10-3/16" DEPTH LED WALL PACK, ALUMINUM HOUSING, 1500 LUMEN PACKAGE, 4000K, VISUAL COMFORT WIDE DISTRIBUTION, MVOLT, WITH DARK BRONZE FINISH.	LITHONIA	WST-LED-P1-40K-VW-MVOLT-DDBXD	WALL, 9' AFG
W2	19	6-3/8" TALL X 13-3/4" WIDE X 10" DEPTH LED WALL PACK, ALUMINUM HOUSING, 10 LEDS, 530mA DRIVE CURRENT, 2200 NOMINAL LUMENS, FORWARD THROW MEDIUM DISTRIBUTION, MVOLT, WITH DARK BRONZE FINISH	LITHONIA	DSXW1-LED-10C-530mA-40K-TFTM-MVOLT-DDBXD	WALL, 18' AFG

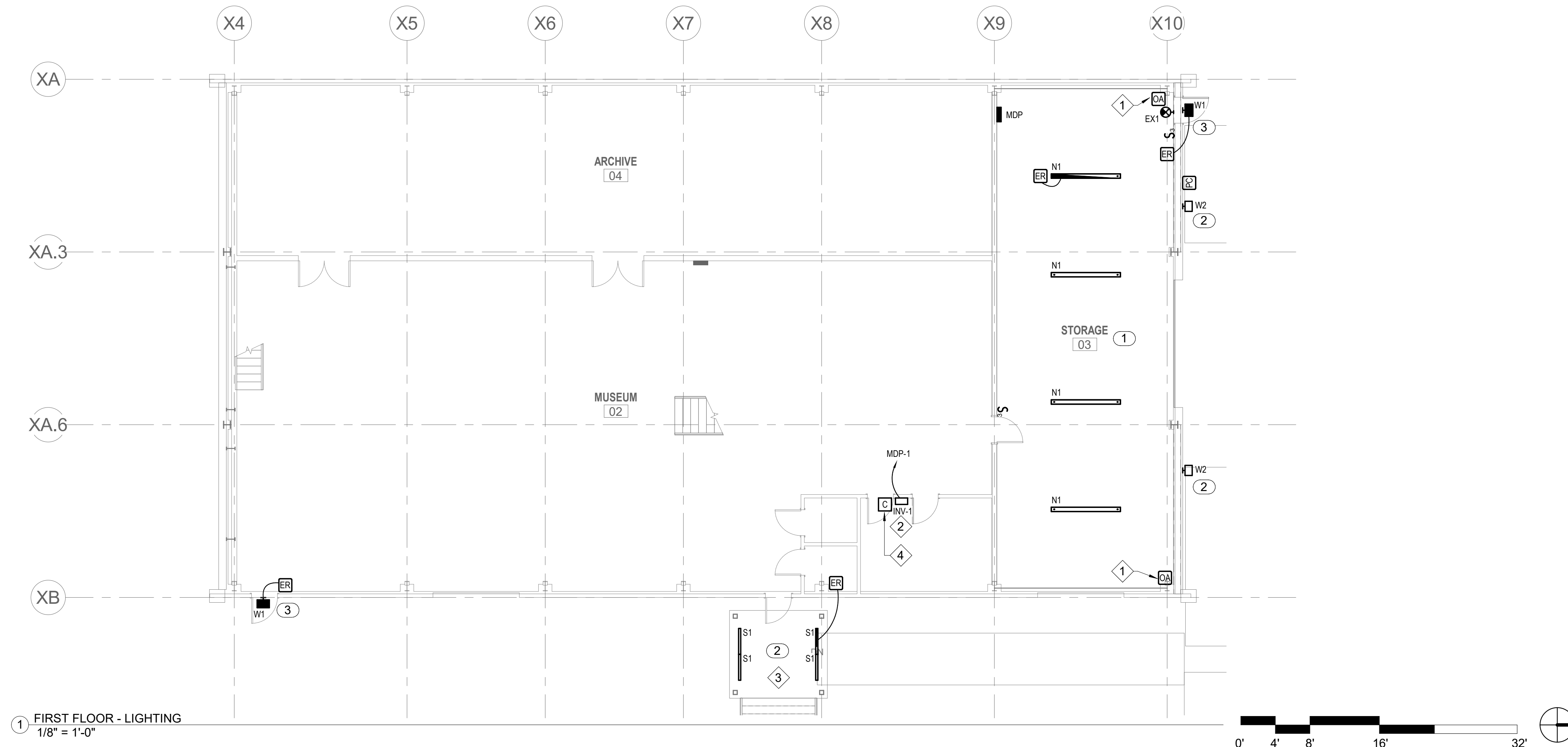
LIGHTING CONTROL SEQUENCES (X)	
KEYNOTE	CONTROL TYPE(S)
1	SWITCH, MANUAL-ON / MANUAL-OFF; VACANCY SENSOR, AUTO-OFF 30 MINUTE TIME DELAY
2	EXTERIOR PHOTOCELL, AUTO-ON / AUTO-OFF, HAND/OFF/AUTO OVERRIDE
3	EMERGENCY RELAY, NORMALLY OFF, AUTO-ON UPON EITHER ACTIVATION OF FIRE ALARM OR LOSS OF NORMAL POWER

SHEET NOTES

1. PROVIDE A DIGITAL LIGHTING CONTROL SYSTEM, SEE LIGHTING CONTROL SEQUENCES FOR ADDITIONAL INFORMATION.
2. PROVIDE NORMAL POWER FOR LUMINAIRES FROM PANEL MDP IN STORAGE RM 03, CIRCUIT 1.
3. PROVIDE EMERGENCY POWER FOR LUMINAIRES FROM CENTRAL LIGHTING INVERTER INV-1, CIRCUIT 1.
4. IN GENERAL, ROOMS SHOWING LUMINAIRE LAYOUT ONLY SHALL BE SWITCHED BY SWITCHES, OCCUPANCY SENSORS, ETC INDICATED IN THE ROOM.
5. THE LIGHTING CONTROL SYSTEM SHALL BE ARRANGED TO FORCE THE EMERGENCY LUMINAIRES TO BE FULL ON WHEN THE CENTRAL INVERTER IS ON BATTERY POWER.
6. OCCUPANCY SENSOR CONTROLS SHALL BE ARRANGED TO FORCE THE EMERGENCY LUMINAIRES TO BE FULL ON BY ACTIVATION OF THE BUILDING FIRE ALARM SYSTEM.

SHEET KEYNOTES (X)

1. CORNER MOUNT WIDE VIEW DUAL-TECH OCCUPANCY SENSOR. PROVIDE ADDITIONAL SENSOR(S) AS NEEDED FOR COMPLETE COVERAGE OF STORAGE RM 03.
2. PROVIDE 250W CENTRAL LIGHTING INVERTER.
3. ROUTE CANOPY LIGHTING POWER AND CONTROL RACEWAYS UNDERGROUND AND UP TO FIXTURES THROUGH STRUCTURAL COLUMN. SEE STRUCTURAL AND ARCHITECTURAL.
4. PROVIDE LIGHTING CONTACTOR FOR EXTERIOR LIGHTING CONTROL.

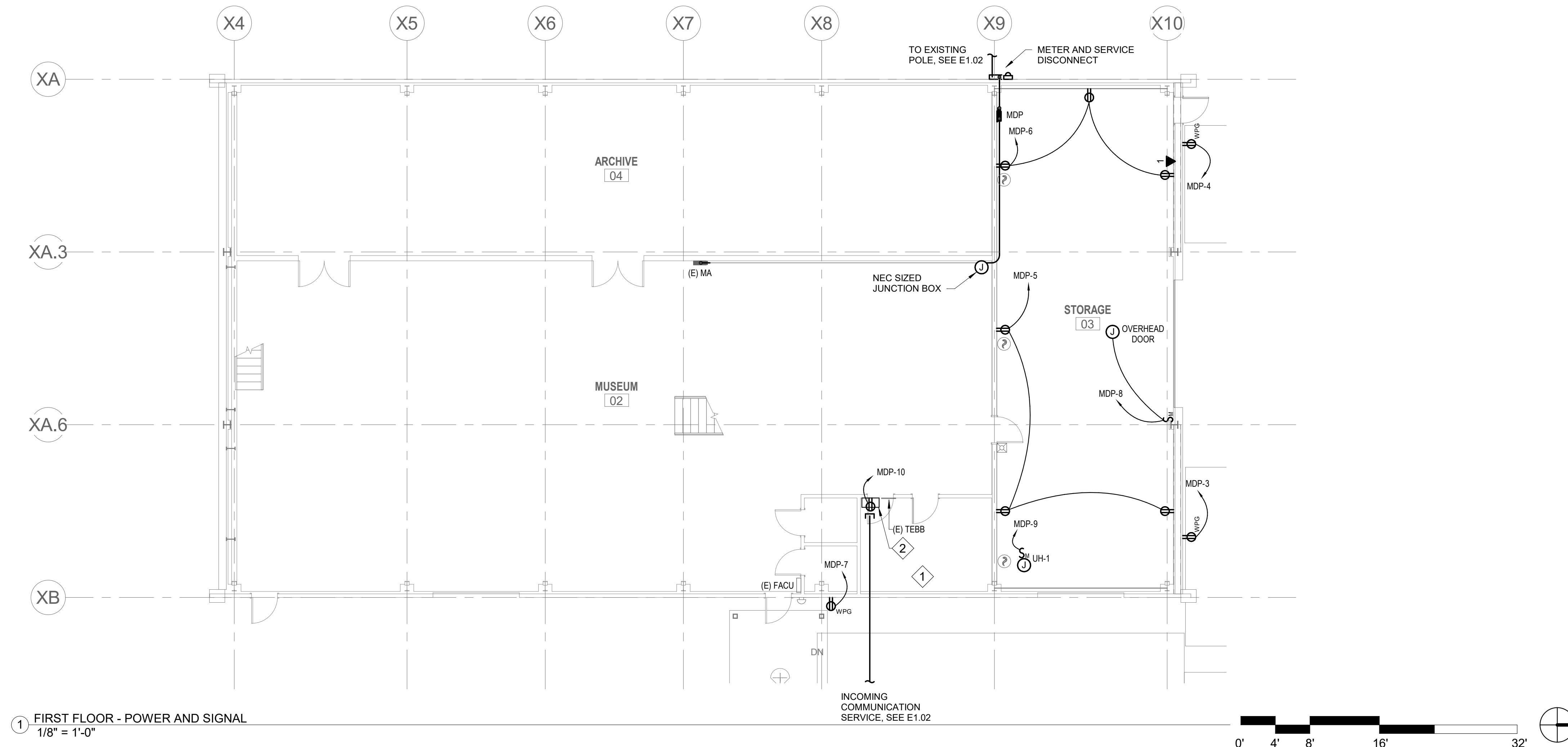


1 FIRST FLOOR - LIGHTING
1/8" = 1'-0"

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 PROJECT NO. 17-0009.01



PLAN - LIGHTING
 AUTHOR: JDS
 REVISION:
 ISSUE DATE: 06.04.2019
 CHECKED: BKH



① FIRST FLOOR - POWER AND SIGNAL
1/8" = 1'-0"

SHEET NOTES

1. RECEPTACLES AND TELECOM OUTLETS IN STORAGE 03 SHALL BE +48" AFF. UON.

SHEET KEYNOTES x

1. PROVIDE POWER TO (E)COMPRESSOR FROM PANEL MDP, CIRCUIT 2.
2. PROVIDE WALL MOUNTED COMMUNICATIONS CABINET WITH A MINIMUM OF 3 RU OF USABLE SPACE. MOUNT RECEPTACLE IN CABINET TO SUPPORT CABINET EQUIPMENT.

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PROJECT NO. 17-0009.01

CITY OF VALDEZ
WAREHOUSE 1 REMODEL
436 S HAZELET
VALDEZ, AK 99686

CONSTRUCTION DOCUMENTS

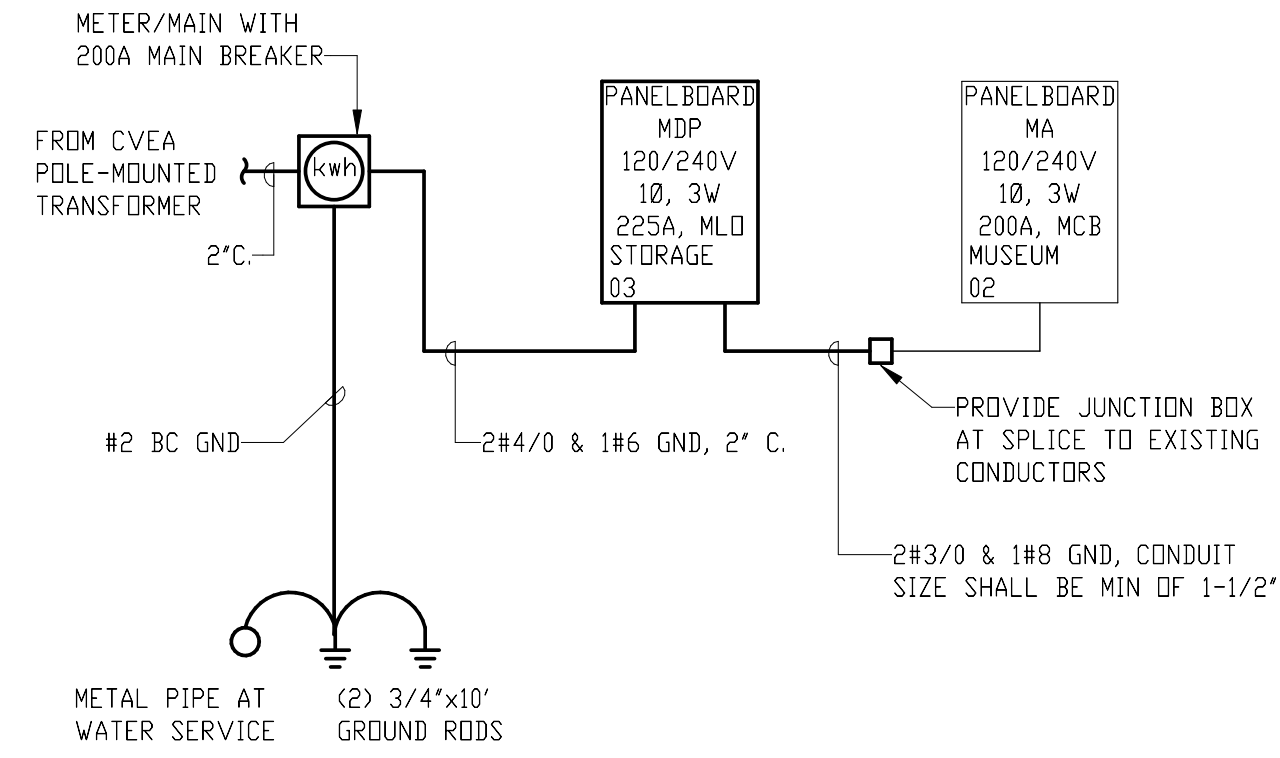


PLAN - POWER/SIGNAL

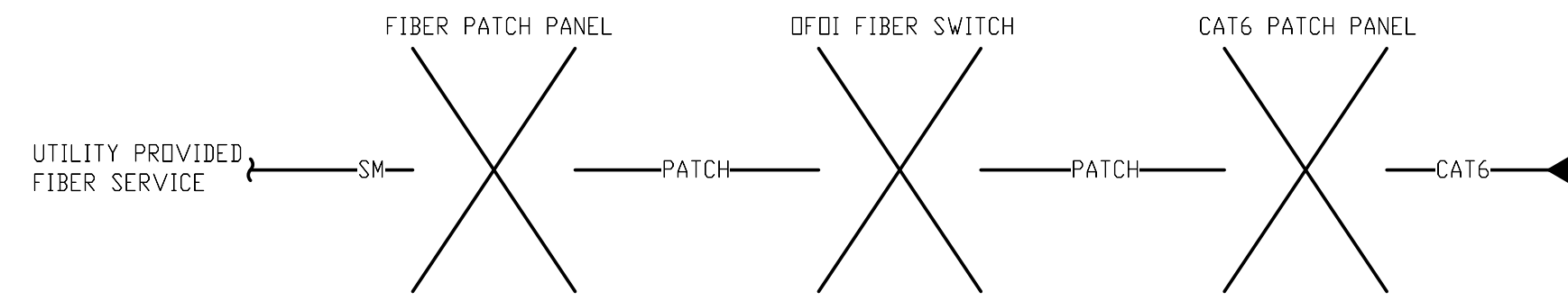
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FULL SIZE PRINTED ON 22 x 34



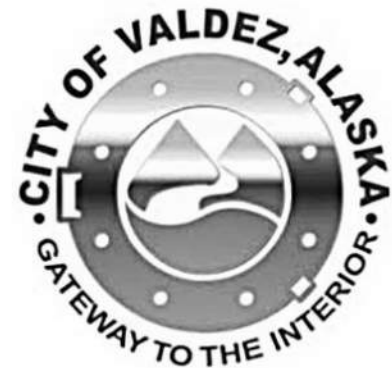
① ONE LINE DIAGRAM - POWER
1/8" = 1'-0"



- NOTES:
1. END POINT DEVICE SHOWN IS TYPICAL, NOT ALL DEVICES ARE SHOWN.
 2. ALL CONNECTIONS ARE CONTRACTOR FURNISHED, CONTRACTOR INSTALL UDN.

② ONE LINE DIAGRAM - TELECOM
NO SCALE

PANELBOARD MDP															
VOLTAGE: 120/240V, 1PH, 3W				SPECIFICATION TYPE: BPB				ENCLOSURE: NEMA 1							
BUS AMPS: 225 A				MIN AIC RATING: 25,000				MOUNTING: SURFACE							
MAIN: MLO; 225 A				CIRCUITS: 24				LOCATION: STORAGE 03							
LOAD	CIRCUIT DESCRIPTION	NOTES	AMPS	P	CKT	CONNECTED VA		CONNECTED VA		CKT	P	AMPS	NOTES	CIRCUIT DESCRIPTION	LOAD
						PH A	PH B	PH A	PH B						
1	LTG 03, EXT: INV-1		20 A	1	1	447		2600		2	1	30 A	2	(E) COMPRESSOR - BOILER RM	3
2	RCPT - NE EXTERIOR		20 A	1	3		180		180	4	1	20 A		RCPT - NW EXTERIOR	2
2	RCPT - EAST STORAGE 03		20 A	1	5	540		540		6	1	20 A		RCPT - WEST STORAGE 03	2
2	RCPT - EAST EXTERIOR		20 A	1	7		180		1680	8	1	25 A	3	OVERHEAD DOOR - STORAGE 03	3
5	UH-1 - STORAGE 03		20 A	1	9	700		180		10	1	20 A		RCPT - COMMUNICATIONS CABINET - BOILER ROOM	2
					11					12					
					13					14					
					15					16					
					17					18					
					19					20					
					21					22					
					23					24					
TOTAL LOAD:						PH A CONN		PH B CONN							
TOTAL AMPS:						5007 VA		2220 VA							
PHASE BALANCE:						42 A		19 A							
PERCENT:						A-B									
						126 %									
LOAD SUMMARY AND CODE DEFINITIONS				CONNECTED LOAD	NEC	ESTIMATED DEMAND	PANEL TOTALS			NOTES:					
1	LIGHTING =	447 VA	125%	559 VA	TOTAL CONN LOAD: 7 kVA			1. GFCI BREAKER (5mA).							
2	RECEPTACLES =	1800 VA	10K+50%	1800 VA	TOTAL EST DEMAND: 7 kVA			2. RELOCATED (E) LOAD.							
3	MOTORS =	4280 VA	100%	4280 VA	TOTAL CONN: 30 A			3. CONFIRM BREAKER SIZE WITH FURNISHED EQUIPMENT.							
4	LARGEST MOTOR =	0 VA	125%	0 VA	TOTAL EST DEMAND: 31 A			4. PROVIDE FEED THROUGH LUGS TO FEED PANEL MA.							
5	MISC. NON-CONTINUOUS =	700 VA	100%	700 VA					5. PANEL MA LOAD BASED UPON METER HISTORY IS APPROXIMATELY 42 AMPS.						
6	MISC. CONTINUOUS =	0 VA	125%	0 VA											
7	NON-COINCIDENTAL =	0 VA	0%	0 VA											
8	SPARE =	0 VA	100%	0 VA											
9	OTHER =	0 VA	100%	0 VA											



DIAGRAMS, DETAILS, & SCHEDULES

AUTHOR: JDS
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