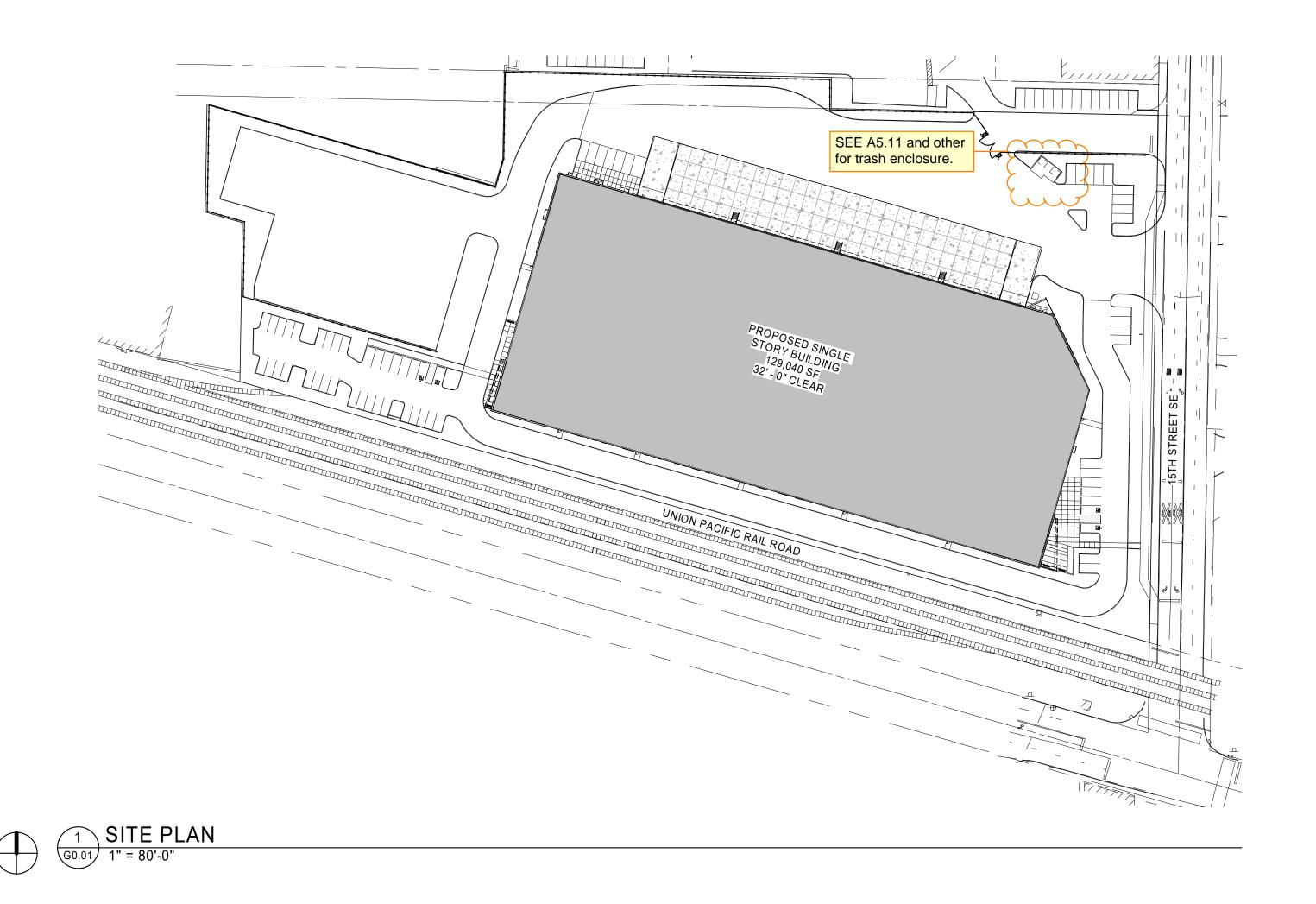
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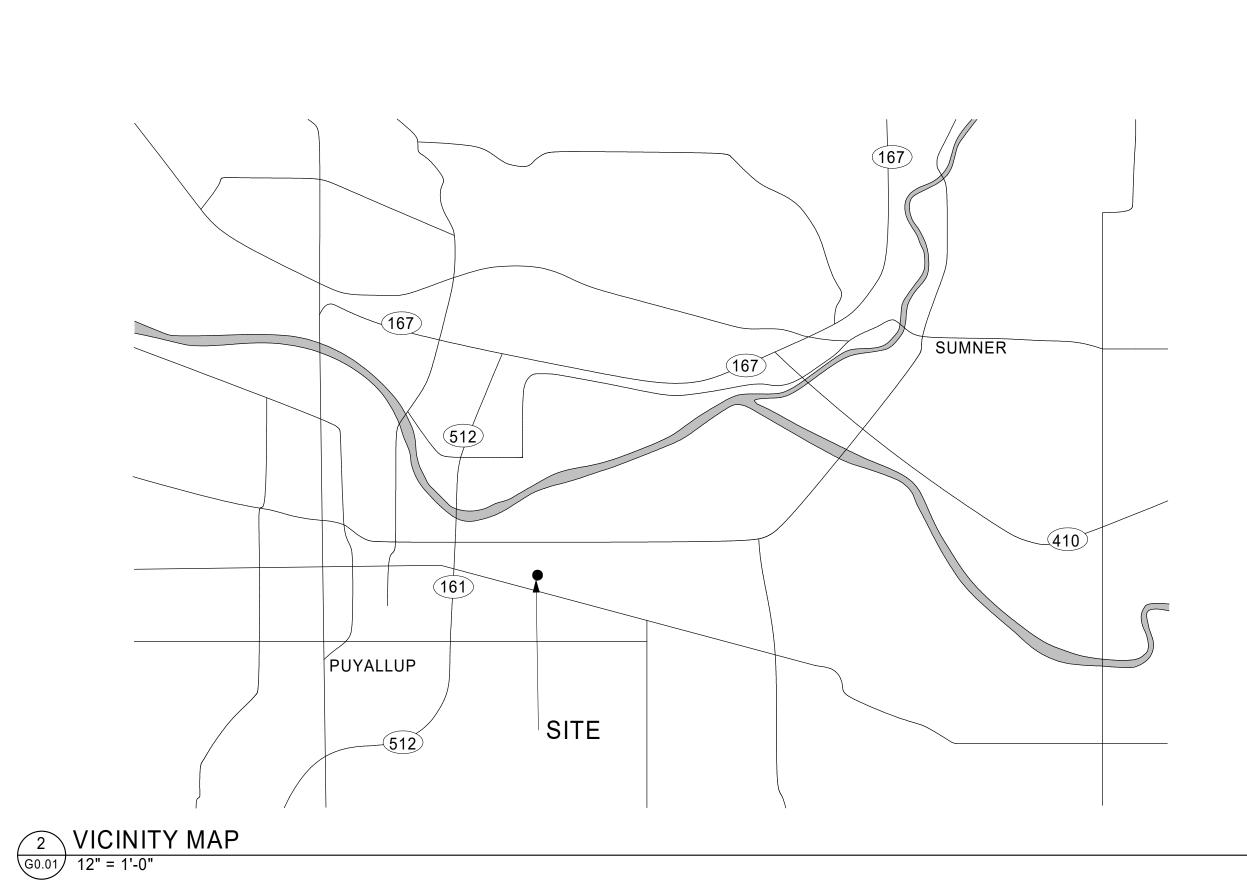
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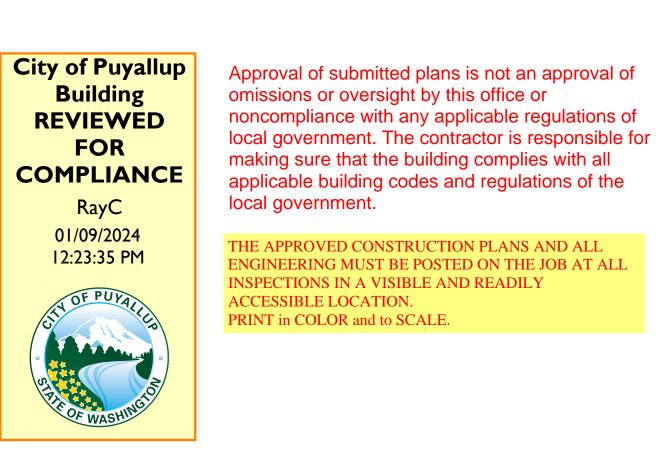
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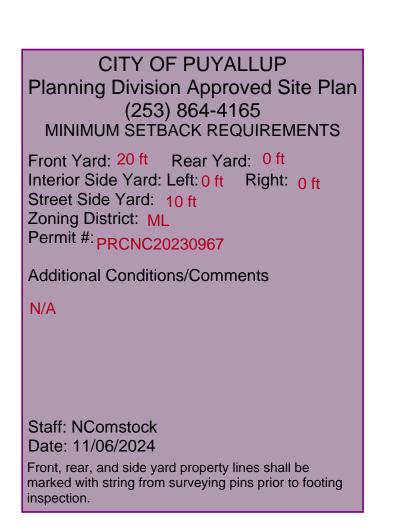












CREF3 PUYALLUP OWNER LLC 11611 SAN VICENTE BLVD 10TH FLOOR LOS ANGELES, CA, 90049 PHONE: (310) 228-3030 CONTACT: BRADY THOMSON EMAIL: BTHOMSON@FORTRESS.COM

ARCHITECT

MACKENZIE

LOGAN BUILDING
500 UNION ST., STE. 410
SEATTLE, WA 98101
PHONE: (206) 749-9993
ARCHITECT: BRETT CONWAY
CONTACT: JUSTIN ABRAHAM
EMAIL: JABRAHAM@MCKNZE.COM

STRUCTURA

LOGAN BUILDING 500 UNION ST., STE. 410 SEATTLE, WA 98101 PHONE: (206) 749-9993 CONTACT: ANDY TATKOWSKI EMAIL: ART@MCKNZE.COM

MACKENZIE

CIVIL

BARGHAUSEN

18215 72ND AVE S
KENT, WA 98032

PHONE: (425) 251-6222
CONTACT: JASON HUBBELL
EMAIL: JHUBBELL@BARGHAUSEN.COM

LANDSCAPE

MACKENZIE

RIVEREAST CENTER
1515 SE WATER AVE, #100
PORTLAND, OR 97214
PHONE: (503) 224-9560

CONTACT: NÍCOLE FERREIRA

EMAIL: NFERREIRA@MCKNZE.COM

TRAFFIC

TENW - TRANSPORTATION ENGINEERING NORTHWEST

11400 SE 8TH ST., SUITE 200
BELLVUE, WA 98004

BELLVUE, WA 98004

PHONE: (425) 466-7072
CONTACT: AMY WASSERMAN
EMAIL: AMY@TENW.COM

GEOTECHNICAL

TERRA ASSOCIATES

12220 113TH AVE NE, SUITE 130
KIRKLAND, WA 98034

PHONE: (425) 821-7777

SITE AND BUILDING INFORMATION

240 15TH ST SE PUYALLUP, WA, 98372
PIERCE COUNTY TAX ID: 7845000161, 7845000170, 0420274126

FOR ADDITIONAL SITE AND BUILDING INFORMATION, SEE SHEET A1.10 - SITE PLAN

PROJECT DESCRIPTION

CONSTRUCTION OF A NEW SINGLE-STORY TILT-UP CONCRETE SHELL AND CORE SPECULATIVE WAREHOUSE SPACE. FUTURE OCCUPANCIES MAY CONSIST OF B, F-1, AND S-1 OCCUPANCIES

GEOTECHNICAL REPORT

SEE GEOTECHNICAL REPORT DATED 1/12/22 BY TERRA ASSOCIATES PROVIDED TO CITY SEPARATELY

<u>PERMITS</u>

 GRADING AND TESC PERMIT APPLICATION: #PRGR20230909

DEFERRED SUBMITTALS DESIGN BUILD STAIRS

DESIGN BUILD STAIRS
 OPEN WEB METAL JOIST & GIRDERS
 LOADING DOCK CANOPIES

Engineer/architect reviewed design

build stairs may be field reviewed

SEPARATE PERMITS DESIGN BUILD FIRE SPRINKLER DESIGN BUILD FIRE ALARM PUBLIC WORKS SIGNAGE NOTES:

DESIGN BUILDERS ARE FULLY RESPONSIBLE FOR THE DESIGN OF THESE SYSTEMS / COMPONENTS. THESE SYSTEMS / COMPONENTS SHOWN ON DOCUMENTS ARE SCHEMATIC ONLY: THEY ARE NOT INTENDED TO REPRESENT FINAL / CODE COMPLIANT DESIGN. PROVIDE DESIGN DOCUMENT SUBMITTAL TO MACKENZIE FOR REVIEW PRIOR TO SUBMITTAL TO CITY OF PUYALLUP, WASHINGTON.

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G0.02 PROJECT GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS
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www.....

Seattle, 206.749.9 www.mcknze.c ACKENZII

CREF3 PUYALLUP
OWNER LLC
11611 SAN VICENTE BLVD.
10TH FLOOR
LOS ANGELES, CA 90049

Project

FORTRESS PUYALLUP
240 15TH ST SE
PUYALLUP, WA 98372

Mechanical/Electrical

REGISTERED
ARCHITECT
BRETT TIMOTHY CONWAS
STATE OF WASHINGTON

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REVISION SCHEDULE

Delta Issued As Issue Date
1 PLAN CHECK 11/07/23

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TITLE SHEET
AND DRAWING
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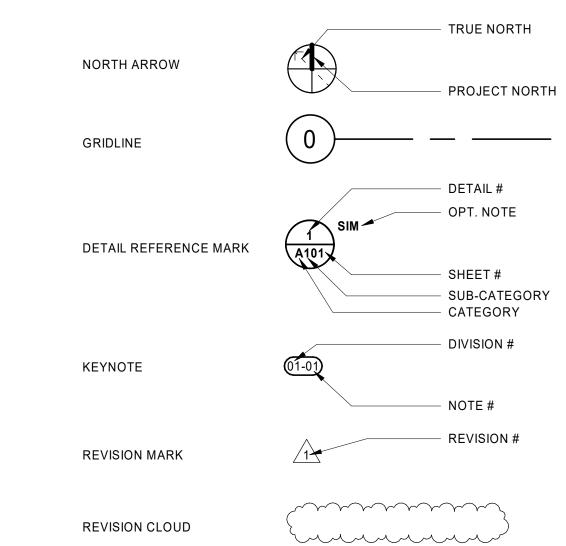
SHEET

G0.0

STANDARD ABBREVIATIONS

⋒	АТ	EOP	EDGE OF PANEL	1	ANGLE	R	RADIUS
@ AB	A I ANCHOR BOLT	EOP EP	EDGE OF PANEL EPOXY PAINT / EDGE OF PAVEMENT	L LAM	ANGLE LAMINATE	R RAD	RADIUS RADIUL
AC	ASPHALTIC CONCRETE	EPDM	ETHYLENE PROPYLENE DIENE	LAW	LAVATORY	RB	RUBBER BASE
ACI	AMERICAN CONCRETE INSTITUTE	LI DIVI	MONOMER	LB	LAG BOLT	RBE	ROOF BASE ELEVATION
ADA	AMERICANS WITH DISIBILITIES ACT	EQ	EQUAL	LL	LIVE LOAD	RCP	REFLECTED CEILING PLAN
ADD'L	ADDITIONAL	ES	EACH SIDE	LLV	LONG LEG VERTICAL	RD	ROOF DRAIN
ADJ	ADJACENT/ ADJUSTABLE	ETC	EPOXY TRAFFIC COATING / ETCETERA	LONG / LONGIT	LONGITUDINAL	RECEPT	RECEPTION(IST)
AESS	ARCHITECTURALLY EXPOSED	EW	EACH WAY	LP	LOWPOINT	REF	REFERENCE / REFRIGERATOR
ALOO	STRUCTURAL STEEL	EXP	EXPOSED STRUCTURE	LSL	LAMINATED STRAND LUMBER	REINF	REINFORCING
\FF	ABOVE FINISH FLOOR	EXP JT / EJ	EXPANSION JOINT	LVL	LAMINATED STIVAND LOMBER LAMINATED VENEER LUMBER	REQ / REQ'D	REQUIRED
AISC	AMERICAN INSTITUTE OF STEEL	EXT	EXTERIOR	LWC	LIGHTWEIGHT CONCRETE	REV REQU	REVISION
4100	CONSTRUCTION	LXI	EXTENSION	LVVC	LIGHTWEIGHT CONCRETE		
AL / ALUM	ALUMINUM	F/	FACE OF		Manaa	RM	ROOM
ALT	ALTERNATE	F/STUD	FACE OF STUD	M	MIRROR	RO	ROUGH OPENING
APPROX	APPROXIMATE			M/E/P	MECHANICAL/ ELECTRICAL/ PLUMBING	ROW	RIGHT OF WAY
RCH	ARCHITECT(URAL)	FB	FLAT BAR		OR PROCESS		
TR	ALL-THREAD ROD	FC	FACE OF CURB	MANF	MANUFACTURER	S	STAIN
IIX	ALL-THREAD ROD	FD	FLOOR DRAIN	MAS	MASONRY	SAT	SUSPENDED ACOUSTICAL TILE
I	DOTTOM OF	FDC	FIRE DEPARTMENT CONNECTION	MATL	MATERIAL	SC	SEALED CONCRETE / SOLID COR
	BOTTOM OF	FE	FIRE EXTINGUISHER	MAX	MAXIMUM		WOOD
ATT	BATTEN INSULATION	FF	FACTORY FINISH / FINISHED FACE	MB	MACHINE BOLT	SCHED	SCHEDULE
D	BOARD	FFE	FINISH FLOOR ELEVATION	MDF/MDO	MEDIUM DENSITY FIBERBOARD /	SCM	STRUCTURAL CLAY MASONRY
LD / BLDG	BUILDING	FIN	FINISH(ED)		OVERLAY	SF	STORE FRONT / SQUARE FEET
_K	BLOCK	FL	FLUSH	MECH	MECHANICAL	SFRS	SEISMIC FORCE RESISTING SYST
_KG	BLOCKING	FLR	FLOOR	MFD	MANUFACTURED	SHTG / SHT'G	SHEATHING
M	BENCHMARK / BEAM	FM	FACTORY MUTUAL	MFG	MANUFACTURING	SIM	SIMILAR
N	BOUNDARY NAIL	FN	FIELD NAILING	MFR	MANUFACTURER	SLRS	SEISMIC LOAD RESISTIVE SYSTE
OT / BOTT	ВОТТОМ	FND	FOUNDATION	MGR	MANAGER	SLV	SHORT LEG VERTICAL
RG	BEARING	FOC	FACE OF CONCRETE	MH	MAN HOLE	SMS	SHEET METAL SCREW
SMT	BASEMENT	FOF	FACE OF FINISH	MIN	MINIMUM	SOG	SLAB ON GRADE
TWN	BETWEEN	FOIC	FURNISH BY OWNER INSTALL BY	MISC	MISCELLANEOUS	SP	SPACE(D)(S)
UR	BUILT UP ROOFING	. 0.0	CONTRACTOR	MK	MARK	SPEC(S)	SPECIFICATION(S)
		FOM	FACE OF MASONRY	MLP	METAL LINEAR PANEL	SQ	SQUARE
AB	CABINET	FOS	FACE OF STUD	MO	MASONRY OPENING	SS	STAINLESS STEEL / SOLID SURFA
В	CATCH BASIN	FOW	FACE OF WALL	MOD BIT	MODIFIED BITUMINOUS	ST	STONE STORE
DF	CONTROLLED DENSITY FILL	FS	FAR SIDE	MP	METAL PANEL		
IP	CAST IRON	FT	FEET/FOOT FIRE TREATED	MTL	METAL FANEL METAL	STA PT	STATION POINT
	CONTROL JOINT			IVIIL	METAL	STAGG	STAGGERED
J		FTG	FOOTING	(A.1)	NEW	STD	STANDARD
L/	CENTERLINE		0.41105	(N)	NEW	STIFF	STIFFENER
LNG	CEILING	GA	GAUGE	NFPA	NATIONAL FIRE PROTECTION AGENCY	STL	STEEL
LR	CLEAR	GALV	GALVANIZED	NIC	NOT IN CONTRACT	STRUCT	STRUCTURAL
MP	CORRUGATED METAL PIPE	GEN	GENERAL	NO. / #	NUMBER	SUSP	SUSPENDED
MU	CONCRETE MASONRY UNIT	GLB	GLULAM BEAM	NOM	NOMINAL	SV	SHEET VINYL
NTR	CENTER	GLZ	GLAZING	NR	NON RATED		
O	CLEAN OUT	GR	GRADE	NS	NEAR SIDE	T	TEMPERED
OL	COLUMN	GRD	GRID ONLY	NTE	NOT TO EXCEED	T&B	TOP AND BOTTOM
ONC	CONCRETE	GSA	U.S. GENERAL SERVICES	NTS	NOT TO SCALE	T/	TOP OF
ONF	CONFERENCE		ADMINISTRATION			TC	TOP OF CURB
ONN	CONNECTION	GYP BD	GYPSUM BOARD	O/A	OVERALL	TEMP	TEMPERATURE / TEMPORARY
ONN	CONNECTION			OC	ON CENTER	THK	THICK / THICKNESS
ONST	CONSTRUCTION	HB	HOSE BIB	OD	OUTSIDE DIAMETER	TI	TOTAL LOAD
ONT	CONTINUOUS	HC	HOLLOW CORE / HANDICAP	OFCI	OWNER FURNISHED, CONTRACTOR	TN	TOE NAIL
ONTR	CONTRACTOR	HCM	HOLLOW CLAY MASONRY		INSTALLED	TO	TOP OF
OORD	COORDINATE	HDPE	HIGH DENSITY POLYETHELENE	OFOI	OWNER FURNISHED, OWNER	TOF	TOP OF FOOTING
ORR	CORRUGAT(ED) (ION)	HDR	HEADER		INSTALLED	TOS	
PT	CARPET	HDWR	HARDWARE	ОН	OPPOSITE HAND		TOP OF STEEL
RC	CHEMICAL RESISTANT COATING	HGR	HANGER	OHD	OVERHEAD DOOR	TOW	TOP OF WALL
SK	COUNTERSINK	HL	HALF LITE	OPNG	OPENING	TPO	THERMOPLASTIC POLYOLEFIN
		HM	HOLLOW METAL	OPP	OPPOSITE	TRANS / TRANSV	TRANSVERSE
SP	CONCRETE SEWER PIPE			OSF / O/FACE	OUTSIDE FACE	TS	TUBE STEEL
TOP	COUNTERTOP	HMK HMM	HOLLOW METAL WELDED	OSSC	OREGON STRUCTURAL SPECIALTY	TYP	TYPICAL
TR / CNTR	CENTER	HMW	HOLLOW METAL WELDED	0000	CODE		
W	CONCRETE WALL	HORIZ	HORIZONTAL	OTS	OPEN TO STRUCTURE	U/S	UNDERSIDE
		HR(S)	HOUR(S)	-· -		UC	UNDER COUNTER
	PENNY(NAILS)	HS	HEADED STUD	Р	PAINT	UL	UNDER WRITERS LABORATORIES
ВА	DEFORMED BAR ANCHOR	HSB	HIGH STRENGTH BOLT	P-LAM	PLASTIC LAMINATE	UNO / UON	UNLESS NOTED OTHERWISE
BL	DOUBLE	HSS	HOLLOW STRUCTURAL STEEL	P.E.	PROFFESSIONAL ENGINEER	USG	UNITED STATES GYPSUM
С	DEMAND CRITICAL WELD	HTG	HEATING	P.C. PB	PARTICLE BOARD		
ET / DTL	DETAIL	HVAC	HEATING, VENTILATION AND AIR	PB PDA / PAF	POWDER DRIVEN ANCHORS/POWDER	VCT	VINYL COMPOSITION TILE
ET/DTL	DETAIL		CONDITIONING	PDA / PAF	ACTUATED FASTENER	VERT	VERTICAL
F	DRINKING FOUNTAIN / DOUGLAS FIR	HWS	HEADED WELD STUD	PJ	PANEL JOINT	VEST	VESTIBULE
IA / ø	DIAMETER					VFY	VERIFY
IAPH	DIAPHRAGM	IBC	INTERNATIONAL BUILDING CODE	PL/	PLATE PARALLAM REAM	VIF	VERIFY IN FIELD
IM	DIMENSION	ID	INSIDE DIAMETER	PLB	PARALLAM BEAM	VP	VISION PANEL
-	DEAD LOAD	IE	INVERT ELEVATION	PLMB	PLUMBING	v I	VIOLOIT AINEL
- N	DOWN	IF	INSIDE FACE	PLY / PLYWD	PLYWOOD	\\\\	WITH
	DEEP	IFC	INTERNATIONAL FIRE CODE	PNL	PANEL	W/	WITH
))	DOOR	IMC	INTERNATIONAL MECHANCIAL CODE	PR	PAIR	W/CRC	COATING WITH CHEMICAL
₹		INFO	INFORMATION	PS	POUR STRIP	\A\/\C	RESISTANCE
S NC	DOWN SPOUT	INSP	INSPECTION / INSPECTOR	PSF	POUNDS PER SQUARE FOOT	W/O	WITHOUT
NG	DRAWING	INSUL	INSULATION	PSI	POUNDS PER SQUARE INCH	WB	WOOD BASE
NLS	DOWELS	INT	INTERIOR	PSL	PARALLEL STRAND LUMBER	WC	WATER CLOSET / WALL COVERIN
				PT	PRESSURE TREATED / PORCELAIN	WD	WOOD
) / EXIST	EXISTING	IPC	INTERNATIONAL PLUMBING CODE	÷ ÷	TILE	WF	WIDE FLANGE BEAM
	EDGE OF	—	10117	PVC	POLY VINYL CHLORIDE	WH	WATER HEATER
\	EACH	JNT	JOINT	PVMT	PAVEMENT	WP	WATER PROOF / WOOD PANELIN
=	EACH FACE	JST	JOIST	1 V IVI I	. ,		WORK POINT
FS	EXTERIOR INSULATION FINISH					WR	WATER RESISTANT
. •	SYSTEM	K	KIPS			WRGB	WATER RESISTANT GYPSUM BOA
_ECT	ELECTRICAL	KSF	KIPS PER SQUARE FOOT			WS	WATER STOP / WELDED STUD
LEV	ELEVATION	KSI	KIPS PER SQUARE INCH			WWF	WELDED WIRE FABRIC
v						V V V V I	VALLED AAIIVE LYDVIC
N .	EDGE NAIL					WWR	WELDED WIRE MESH

SYMBOLS AND REFERENCES



PROJECT GENERAL NOTES

APPROVED BY MACKENZIE.

INTENT. THE PROJECT INTENT IS TO PROVIDE FOR A COMPLETE, WORKING SYSTEM. ALL WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE LATEST ADOPTED BUILDING CODE EDITION, AND TO CONDITIONS AND SPECIFICATIONS OF ALL GOVERNING AUTHORITIES. VERIFY AND CONFIRM ALL CONDITIONS, DIMENSIONS, AND LAYOUT INFORMATION PRIOR TO START OF CONSTRUCTION. NOTIFY MACKENZIE OF ANY DISCREPANCIES PRIOR TO START OF WORK. ANY CORRECTION WORK REQUIRED AS A RESULT OF NOT REPORTING SUCH DISCREPANCIES SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER. D. CONTRACTOR AND SUBCONTRACTORS SHALL CAREFULLY EXAMINE THE SITE AND THE CONSTRUCTION DOCUMENTS OF THE ENTIRE WORK. INCONSISTENCIES IN THE PLANS OR SPECIFICATIONS SHALL BE CALLED TO THE ATTENTION OF MACKENZIE. REFER TO ENLARGED PLANS AND ELEVATIONS WHERE INDICATED FOR ADDITIONAL INFORMATION. ENLARGED PLANS TAKE PRECEDENCE OVER PLANS OF SMALLER SCALE, AND DETAILS TAKE PRECEDENCE OVER PLANS. IN THE CASE OF A CONFLICT, THE HIGHEST COST OPTION SHOULD BE DETAIL REFERENCES SHALL BE APPLIED TO ALL INSTANCES WHERE THE SAME CONDITIONS OCCUR, UNLESS NOTED OTHERWISE. THE TERMS "ABOVE FINISH FLOOR" (AFF) AND "FINISH FLOOR ELEVATION" (FFE) REFER TO FINAL FINISHED FLOOR ELEVATION, WHETHER BUILT-UP SLAB, COMPOSITE DECK, OR RAISED ACCESS DO NOT SCALE DRAWINGS. CUTTING AND DRILLING OF STRUCTURAL MEMBERS NOT DETAILED REQUIRES THE WRITTEN PERMISSION OF THE STRUCTURAL ENGINEER OF RECORD. GROUND FLOOR ELEVATION OF 0'-0" = 61.1' AS INDICATED ON CIVIL DRAWINGS. SAVE AND RECYCLE DEMOLITION DEBRIS AS APPLICABLE. ALL DEMOLISHED OR REMOVED EXISTING MATERIAL SHALL BE LEGALLY DISPOSED. COORDINATE WITH AUTHORITY HAVING JURISDICTION REQUIREMENTS FOR RECYCLING/RE-USE OF DEMOLITION DEBRIS. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE RESULTING FROM THEIR WORK. THE CONTRACTOR WILL COORDINATE CLEAN UP OF ALL AREAS AFFECTED BY DUST OR ANY MATERIALS, BOTH DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT, INCLUDING THE INSIDE OF ALL WINDOWS AS NECESSARY SO THAT THE SPACE IS READY FOR OCCUPANCY BY TENANT.

M. ALL DESIGN-BUILD ITEMS, SYSTEMS, AND ELEMENTS ARE TO BE SUBMITTED FOR REVIEW AND

N. EXISTING MATERIAL NOTED TO BE RETURNED TO THE OWNER SHALL BE SAFELY STORED AND PROTECTED UNTIL IT IS REMOVED FROM THE SITE BY THE OWNER

A. THE DRAWINGS LOCATE PRODUCTS, SURFACES, AND MATERIALS AND THE NOTES CONVEY DESIGN

Architecture - Interiors Planning - Engineering

> 503.224.9560 Vancouver, WA 360.695.7879 Seattle, WA 206.749.9993

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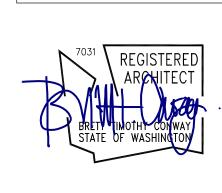
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CREF3 PUYALLUP OWNER LLC 11611 SAN VICENTE BLVD. 10TH FLOOR LOS ANGELES, CA 90049

Project

FORTRESS -**PUYALLUP** 240 15TH ST SE PUYALLUP, WA 98372

Mechanical/Electrical



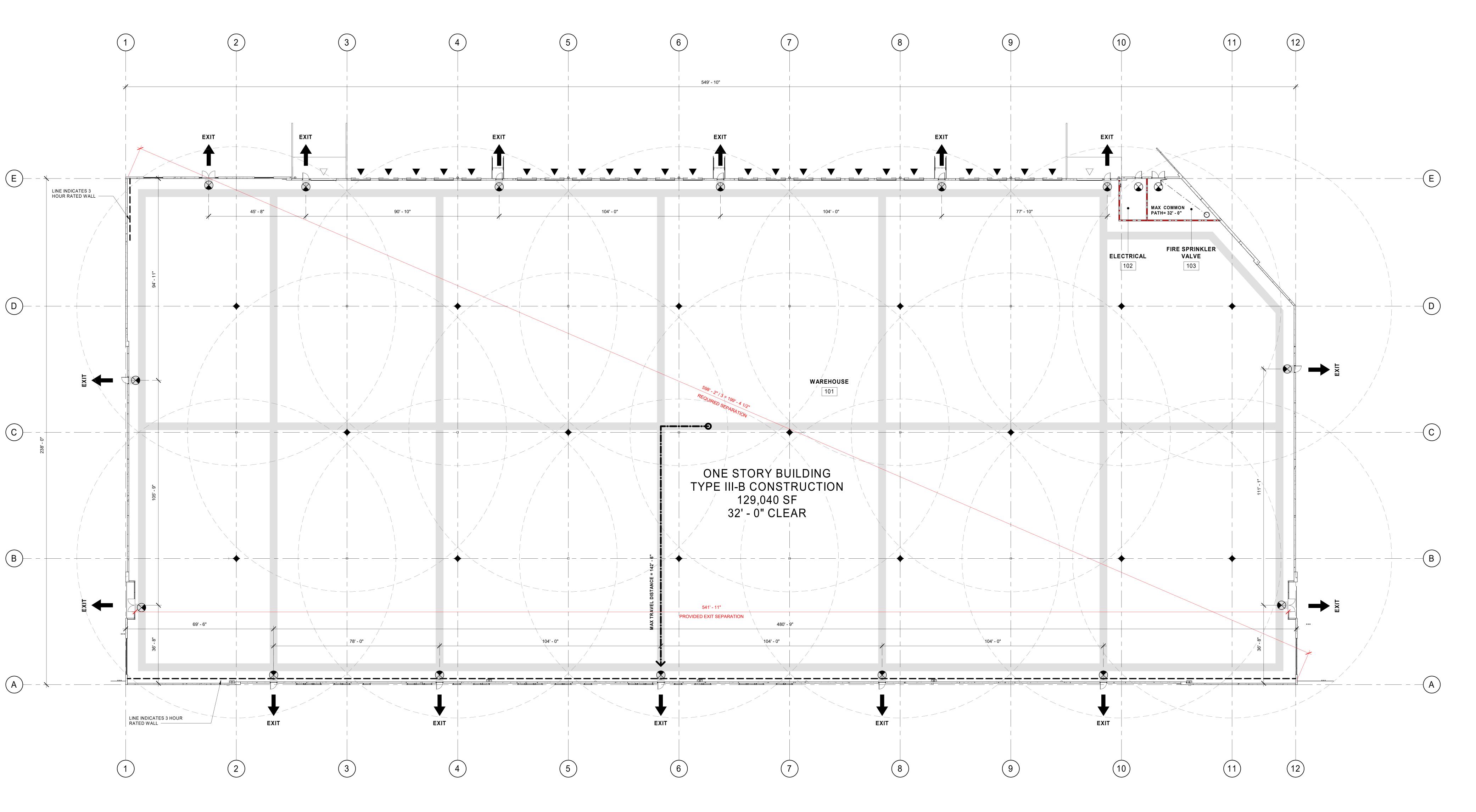
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REVISION SCHEDULE

SHEET TITLE: **PROJECT** GENERAL NOTES, SYMBOLS, **ABBREVIATIONS**

JOB NO. **2220290.00** PERMIT SET 6/28/2023

Autodesk Docs://Fortress-Puyallup/290-Fortress-Puyallup-V23-A.rvt 6/28/2023 2:46:51 PM 12" = 1'-0"



CODE ANALYSIS PLAN
G1.10 1/16" = 1'-0"

ENERGY CODE REQUIREMENTS - COMPONENT PERFORMANCE PATH, SEMI HEATED

BASED ON WASHINGTON STATE ENERGY CODE, COMMERCIAL, 2018 - CHAPTER 51-11C WAC
CLIMATE ZONE: MARINE 4C (TABLE C301.1)
SEMI-HEATED BUILDING: PROVIDE FREEZE PROTECTION TO HEAT BUT NOT COOL THE BUILDING
WITH CAPACITY GREATER THAN OR EQUAL TO 3.4 BTU/(H-SQ. FT.) BUT NOT GREATER THAN 8
BTU/(H-SQ. FT.) PER C202.
ADDITIONAL INFORMATION:

MAX LIGHTING POWER DENSITY (WAREHOUSE): 0.40 W/SF PER TABLE C405.4.2(1)
CONTINUOUS AIR BARRIER REQUIRED PER C402.5.1.
a. WOOD ROOF DECK
b. SINGLE-PLY ROOF MEMBRANE
c. TILT-UP CONCRETE WALLS W/ SEALED JOINTS

- C. ALL PENETRATIONS OF THE CONTINUOUS AIR BARRIER MUST BE SEALED PER C402.5.1.1

 D. DOCK SEALS TO BE INSTALLED AT LOADING DOORS PRIOR TO OCCUPANCY W/ TENANT IMPROVEMENTS PER C402.5.6.
- E. VESTIBULES, WHERE REQUIRED, TO BE INSTALLED W/ TENANT IMPROVEMENT.
 F. IDENTIFICATION MARK SHALL BE APPLIED TO ALL INSULATION MATERIALS AND INSULATION SUCH THAT THE MARK IS READILY OBSERVED DURING INSPECTION PER C303.1.1.
 G. FENESTRATION SHALL BE LABELED WITH NFRC U-FACTOR, SOLAR HEAT GAIN COEFFICIENT, VISIBLE TRANSMITTANCE AND LEAKAGE RATING PER C303.1.3.
 H. BUILDING ENCLOSURE AIR LEAKAGE TESTING REQUIRED PER SECTION C402.5.1.2. TESTING SHALL BE PERFORMED PER ASTM C779 (OR EQUIVALENT METHOD APPROVED BY THE CODE OFFICIAL) AND THE TARGET LEAKAGE RATE IS 0.25 CFM/FT2 (1.5 L/S*M2) AT 0.3 IN. WG (75 PA). INCLUDE THE FOLLOWING REQUIREMENTS IN PROJECT DOCUMENTS: (1) SUBMIT BUILDING ENCLOSURE AIR LEAKAGE TEST REPORTS TO JURISDICTION AND OWNER; (2) IF INITIAL TEST RESULT EXCEEDS 0.25 CFM/FT2 (1.5 L/S*M2), INDICATE THAT INSPECTION AND ALL PRACTICAL CORRECTIVE ACTIONS BE COMPLETED AND DOCUMENTED IN THE AIR LEAKAGE TEST REPORT; (3) IF INITIAL TEST RESULT EXCEEDS 0.40 CFM/FT2 (2.0 L/S*M2), INDICATE THAT CORRECTIVE ACTIONS
- I. TO COMPLY WITH ADDITIONAL EFFICIENCY PACKAGE C406 PROVIDE:

 a. MORE EFFICIENT HVAC EQUIPMENT AND FAN PERFORMANCE PER C406.2.

 b. REDUCED LIGHTING POWER: OPTION 2 IN ACCORDANCE WITH SECTION C406.3.2.

 J. PROJECT CLOSE OUT DOCUMENTATION IS REQUIRED INCLUDING APPLICABLE CALCULATIONS, WSEC ENVELOPE COMPLIANCE FORMS, AND FENESTRATION NFRC RATING CERTIFICATES PER C103.6.

OR LESS; (4) INCLUDE AIR BARRIER TEST REPORT IN PROJECT CLOSE OUT

DOCUMENTATION PROVIDED TO BUILDING OWNER.

SHALL ALSO INCLUDE RE-TESTING; (4) INDICATE THAT CORRECTIVE MEASURES AND

RETESTING MUST BE REPEATED UNTIL THE TEST RESULT IS 0.40 CFM/FT2 (2.0 L/S*M2)

BUILDING CODE DATA

BASED ON THE 2018 WASHINGTON STATE BUILDING CODE

GENERAL CODE ANALYSIS:

CONSTRUCTION TYPE: III-B SINGLE STORY

PROPOSED BUILDING: 129,040 SF 32'-0" CLEAR

HOUR FIRE RATED.

FIRE PROTECTION:

AUTOMATIC FIRE SPRINKLER SYSTEM (ESFR)

OCCUPANCIES:

THE BUILDING TO BE UNOCCUPIED UNDER THIS PERMIT. FUTURE OCCUPANCIES MAY CONSIST OF B, F-1, AND S-1 OCCUPANCIES.

BUILDING HEIGHT & STORIES (TABLE 504.3, TABLE 504.4):

ALLOWABLE: 60'-0" / 2 STORIES
PROVIDED: 45'-6" / 1 STORY

UNLIMITED AREA BUILDING (SEE SECTION 507.4):

BUILDING HAS 60' PUBLIC WAYS AND/OR YARDS ON ALL *SIDES, IS ONLY ONE LEVEL ABOVE GRADE, AND IS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM.

REDUCED OPEN SPACE (SEE SECTION 507.2.1):
*SOUTH WALL IS LOCATED BETWEEN 40 AND 60 FEET AWAY AND IS 3 HOUR

RATED IN ACCORDANCE WITH SECTION 507.2.1. OPENINGS IN WALL TO BE 3

EXTERIOR NON-BEARING WALL NR
INTERIOR NON-BEARING WALL NR
STRUCTURAL FRAME NR
FLOOR NR
ROOF NR
FIRE PUMP ROOM (913.2.1) 2-HR

ACCORDANCE WITH NFPA 13.

WSBC SECTION 903 - AUTOMATIC SPRINKLER SYSTEMS

WSBC TABLE 601 - FIRE RESISTIVE REQUIREMENTS
EXTERIOR BEARING WALL 2-HR

BUILDING CODE

INTERIOR BEARING WALL

PROVIDED.

CHAPTER 9 - FIRE PROTECTION

WSFC SECTION 503 - FIRE APPARATUS ACCESS ROADS

BASED ON 2018 WASHINGTON STATE FIRE CODE & 2018 WASHINGTON STATE

SEE SHEET C15 FOR AERIAL FIRE APPARATUS ACCESS ROAD. 26 FOOT LANE

SIGNAGE CONSTRUCTED OF DURABLE MATERIALS AND BE READILY VISIBLE.

WSFC SECTION 509.1 - IDENTIFICATION
ALL FIRE PROTECTION & UTILITY EQUIPMENT SHALL BE IDENTIFIED WITH APPROVED

WSFC SECTION 906 - PORTABLE FIRE EXTINGUISHERS
PORTABLE FIRE EXTINGUISHERS (2A:10BC MINIMUM) SHALL BE PROVIDED THROUGHOUT BASED ON 2018 WASHINGTON STATE FIRE CODE.

DRAFT CURTAINS ARE NOT REQUIRED PER TABLE 3206.2

WSFC CHAPTER 32 - HIGH-PILED COMBUSTIBLE STORAGE
BUILDING IS DESIGNED TO ACCOMMODATE HIGH PILED STORAGE TYPE I-IV
UNENCAPSULATED COMMODITIES UP TO 32' PER WSFC TABLE 3206.2:
AN AUTOMATIC SPRINKLER SYSTEM IS PROVIDED IN ACCORDANCE WITH WSFC SECTION 3206.4
FIRE DETECTION SYSTEM IS NOT REQUIRED PER TABLE 3206.2
BUILDING ACCESS IS PROVIDED PER WSFC SECTION 3206.6
SMOKE AND HEAT REMOVAL IS NOT REQUIRED PER TABLE 3206.2
FOOTNOTE H: NOT REQUIRED WHERE STORAGE AREAS ARE PROTECTED BY EITHER EARLY SUPPRESSION FAST RESPONSE (ESFR) SPRINKLER SYSTEMS OR CONTROL MODE SPECIAL APPLICATION SPRINKLERS WITH A RESPONSE TIME INDEX OF 50 (M*S)^{1/2} OR LESS THAT ARE LISTED TO CONTROL A FIRE IN THE STORED COMMODITIES WITH 12 OR FEWER SPRINKLERS, INSTALLED IN

CHAPTER 10 - MEANS OF EGRESS

SECTION 1008 - MEANS OF EGRESS ILLUMINATION

PROVIDE MEANS OF EGRESS ILLUMINATION AT A MINIMUM OF ONE FOOT-CANDLE AT PATH OF EGRESS TO MEET SECTION 1008. EXTEND TO 5' - 0" OUTSIDE EGRESS DOORS.

• EMERGENCY POWER LIGHTING REQUIRED THROUGHOUT PER WSBC 1008 PROVIDE:
• EMERGENCY POWER FOR MINIMUM 90 MINUTES. (BATTERY BACK-UP)
• AVERAGE INITIAL ILLUMINATION OF 1 FOOT-CANDLE (1 LUX)
• MAXIMUM TO MINIMUM UNIFORMITY RATIO OF 40 TO 1, MAXIMUM

SECTION 1010: DOORS, GATES, AND TURNSTILES
 RATED, SIZED, AND HARDWARE PROVIDED TO MEET SECTION 1010 - SEE INDIVIDUAL FLOOR PLANS AND SPECIFICATIONS.
 PROVIDE PANIC HARDWARE AT ELECTRICAL ROOM (1010.1.10)

SECTION 1013 - EXIT SIGNS
PROVIDE EXIT SIGNAGE TO MEET SECTION 1013.1 - EXIT SIGNAGE TO BE PART OF ELECTRICAL PL

COMPONENTS AND OPENINGS ARE SHOWN ON THIS SHEET AND INDIVIDUAL FLOOR PLANS.

SECTION 1016 AND 1017 - EXIT ACCESS

ALL SPACES EXIT DIRECTLY TO THE EXTERIOR, THROUGH AN ENTRY FOYER OR THROUGH AN INTERVENING ROOM (SECTION 1016.2)

WAREHOUSE: MAXIMUM DISTANCE ALLOWED: 400' - 0"

MAXIMUM DISTANCE PROVIDED: 142' - 6"

MAXIMUM COMMON PATH ALLOWED: 100' - 0"
MAXIMUM COMMON PATH PROVIDED: 32'-0"

SECTION 1006 - EXIT ACCESS DOORWAYS
F-1 INDUSTRIAL: 129,040 SF/100 OCC. = 1,291 OCC.
WAREHOUSE: (4) EXITS REQUIRED
(15) EXITS PROVIDED
ALL EXITS DISCHARGE DIRECTLY TO EXTERIOR.
MIN. EXIT WIDTH REQUIRED = .2" X 1,291 OCC. = 258.2"
EXIT WIDTH PROVIDED: 15 X 36" = 540"

<u>SECTION 1028: EXIT DISCHARGE</u> ALL EXITS DISCHARGE AT THE GROUND LEVEL. SEE SITE PLAN

EXIT WIDTH PROVIDED: 15 X 36" = 540"

ELECTRICAL ROOM: (1) EXIT REQUIRED

(1) EXIT PROVIDED

MIN. EXIT WIDTH REQUIRED = .2" X 1 OCC. = .2"

EXIT WIDTH PROVIDED: 36"

FIRE SPRINKLER VALVE: (1) EXIT REQUIRED

(1) EXIT PROVIDED

MIN. EXIT WIDTH REQUIRED = .2" X 2 OCC. = .4"

EXIT WIDTH PROVIDED: 72"

SECTION 1022: EXITS

LEGEND

EGRESS DOOR LOCATION

PROVIDE EMERGENCY ILLUMINATED EXIT SIGNS PER THESE LOCATIONS

44" EGRESS PATH, PROVIDE 1 FC

EMERGENCY ILLUMINATION

MAXIMUM TRAVEL DISTANCE

◆ 75' MAXIMUM TRAVEL DISTANCE BETWEEN FIRE EXTINGUISHERS

FIRE EXTINGUISHER LOCATION. GC
TO COORDINATE FINAL QUANTITIES
AND LOCATIONS WITH FIRE MARSHAL

DRIVE IN OVERHEAD DOOR

AT-GRADE OVERHEAD DOOR

1HR RATED WALL

2HR RATED WALL

3HR RATED WALL

SHEET TITLE:

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REVISION SCHEDULE

Delta Issued As Issue Date

1 PLAN CHECK 11/07/23

Planning - Engineering

360.695.7879 Seattle, WA

www.mcknze.com

MACKENZIE.

CREF3 PUYALLUP

11611 SAN VICENTE BLVD.

LOS ANGELES, CA 90049

OWNER LLC

10TH FLOOR

FORTRESS -PUYALLUP

240 15TH ST SE

Mechanical/Electrical

PUYALLUP, WA 98372

CODE ANALYSIS PLAN

~4 4

SHEET

JOB NO. **2220290.0**0

GENERAL STRUCTURAL NOTES

١.	GOVERNING BUILDING CODE: 2018 INTERNATIONAL BUILDING CODE WITH WASHINGTON STATE AMENDMENTS
	RISK CATEGORY II
	LIVE ROOF
ŀ.	SNOW
	GROUND SNOW (Pg)
	FLAT ROOF SNOW LOAD (Pf)
	SLOPED ROOF SNOW (Ps)
	IMPORTANCE FACTOR
	(SNOW BUILD-UP IN ACCORDANCE w/ IBC)
).	WIND BASIC WIND SPEED (3 SECOND GUST)
	EXPOSURE
;	SEISMIC
•	0.2 SEC. SPECTRAL RESPONSE ACCELERATION (Ss)
	1.0 SEC. SPECTRAL RESPONSE ACCELERATION (S1)
	DESIGN SPECTRAL ACCELERATION (SDS)
	DESIGN SPECTRAL ACCELERATION (SD1)
	SITE CLASSIFICATION F*
	SEISMIC DESIGN CATEGORY
	IMPORTANCE FACTOR
	SEISMIC FORCE RESISTING SYSTEM (SFRS)
	BUILDING (LEVEL 1 TO ROOF):
	BEARING SPECIAL REINFORCED CONCRETE SHEARWALLS
	R
	BASE SHEAR (V)
	ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE
	* PARAMETERS ARE FOR SITE CLASS D, WHICH CAN BE USED FOR STRUCTURES WITH A
	FUNDAMENTAL PERIOD OF 0.5 SEC OR LESS PER ASCE 7-16 20.3.1

GENERAL

1. THE PROJECT SPECIFICATIONS, DRAWINGS, STANDARD DETAILS, DETAILS IN THE DRAWINGS, AND THE STRUCTURAL NOTES ARE TO BE COMPLEMENTARY. IN THE CASE OF AN INCONSISTENCE NOT CLARIFIED BY THE DESIGNER OF RECORD THE MOST STRINGENT, HIGHEST QUALITY AND BEST QUALITY PROVISIONS 2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE CONSTRUCTION. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES. DO NOT SCALE DRAWINGS; COORDINATE DIMENSIONS WITH ARCHITECTURAL DRAWINGS. 3. ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE LATEST EDITION OF THE

INTERNATIONAL BUILDING CODE WITH AMENDMENTS. 4. SEE ARCHITECTURAL DRAWINGS INCLUDING BUT NOT LIMITED TO THE FOLLOWING: A. SIZE AND LOCATION OF ALL OPENINGS, EXCEPT AS NOTED. SIZE AND LOCATION OF ALL INTERIOR AND EXTERIOR NONBEARING WALLS SIZE AND LOCATION OF ALL CONCRETE CURBS, FLOOR DRAINS, SLOPES, DEPRESSED AREAS,

CHANGES IN LEVEL, CHAMFERS, GROOVES, INSERTS, ETC. SIZE AND LOCATION OF ALL FLOOR AND ROOF OPENINGS, EXCEPT AS SHOWN. FLOOR AND ROOF FINISHES. F. STAIR FRAMING AND DETAILS, EXCEPT AS SHOWN.

DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS. 5. SEE CONSTRUCTION DOCUMENTS FOR THE FOLLOWING, INCLUDING BUT NOT LIMITED TO: A. PIPE RUNS, SLEEVES, HANGERS, TRENCHES, WALL AND SLAB OPENINGS, ETC., EXCEPT AS SHOWN OR B. ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS IN WALLS AND SLABS. CONCRETE INSERTS FOR FIXTURES.

. SIZE AND LOCATION OF MACHINE OR EQUIPMENT BASES, ANCHOR BOLTS FOR MOTOR MOUNTS. SEISMIC BRACING REQUIREMENTS. 6. METHODS, PROCEDURES, AND SEQUENCES OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN AND ENSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION. 7. $\,$ THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED $\,$ STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, WORKERS AND VISITORS DURING CONSTRUCTION. SUCH MEASURE SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR CONSTRUCTION LOADS, ETC. VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE REVIEW OF THE

8. OPENINGS, POCKETS, ETC. SHALL NOT BE PLACED IN STRUCTURAL ELEMENTS UNLESS SPECIFICALLY DETAILED OR APPROVED BY THE STRUCTURAL ENGINEER. 9. CONSTRUCTION LOAD (MATERIAL AND EQUIPMENT) SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT. PROVIDE ADEQUATE SHORING AND/ OR BRACING WHERE STRUCTURES HAVE NOT ATTAINED DESIGN STRENGTH.

10. WHEN A DETAIL IS IDENTIFIED, THE CONTRACTOR SHALL APPLY THIS DETAIL IN ESTIMATING AND CONSTRUCTION TO EVERY LIKE CONDITION WHETHER OR NOT THE REFERENCE IS MADE IN EVERY 11. ANY REFERENCES TO THE RECOMMENDATIONS, GUIDELINES, OR REQUIREMENTS IN NATIONAL PUBLICATIONS, SUCH AS BUT NOT LIMITED TO ASCE, ASTM, IBC, ACI, AISC, NDS, OR AWS, IN THE

CONSTRUCTION DOCUMENTS SHALL BE FOLLOWED AS IF THEY ARE SPECIFICALLY MANDATED.

FOUNDATION

1. THE SUBSURFACE INFORMATION AND FOUNDATION DESIGN ARE BASED ON THE FOLLOWING GEOTECHNICAL REPORT: REPORT PREPARED BY TERRA ASSOCIATES, INC

2. FOUNDATIONS FOR THE STRUCTURE HAVE BEEN DESIGNED USING THE FOLLOWING VALUES: LONG-DURATION ALLOWABLE **NET** SOIL BEARING PRESSURE. SHORT-DURATION ALLOWABLE **NET** SOIL BEARING PRESSURE. . (4/3)*(LONG DURATION) 3. THE CONTRACTOR SHALL PERFORM EXCAVATIONS, FOOTING CONSTRUCTION AND PREPARATION OF THE SUB GRADE UNDER THE SLAB ON GRADE IN ACCORDANCE WITH THE RECOMMENDATIONS CONTAINED IN THE GEOTECHNICAL REPORT AND THE PROJECT SPECIFICATIONS. 4. FOUNDATION CONDITIONS NOTED DURING CONSTRUCTION, WHICH DIFFER FROM THOSE DESCRIBED IN

THE GEOTECHNICAL REPORT SHALL BE REPORTED TO THE STRUCTURAL ENGINEER AND/OR GEOTECHNICAL ENGINEER BEFORE FURTHER CONSTRUCTION IS ATTEMPTED. 5. CONTRACTOR WILL PROVIDE FOR DE-WATERING OF EXCAVATIONS FROM EITHER SURFACE, GROUND, OR SEEPAGE WATER. 6. ALL ABANDONED FOOTINGS, UTILITIES, ETC., THAT INTERFERE WITH NEW CONSTRUCTION SHALL BE

7. SITE PREPARATION, OVER-EXCAVATION / RECOMPACTION OF SOILS, AND THE INSTALLATION OF FOUNDATION AND WALL DRAINS AS REQ'D SHALL BE PERFORMED IN ACCORDANCE WITH RECOMMENDATIONS PRESENTED IN THE SOILS REPORT REFERENCED ABOVE.

8. CONTRACTOR SHALL PROVIDE FOR DESIGN AND INSTALLATION OF ALL CRIBBING, SHEATHING, AND SHORING REQUIRED TO SAFELY RETAIN THE EARTH BANKS. MINIMUM FROST DEPTH FOR BOTTOM-OF-FOUNDATIONS . 10. REFERENCE FOUNDATION PLANS FOR TOP OF FOOTING INFORMATION

11. CONTRACTOR TO REVIEW ALL TOP AND BOTTOM FOOTING ELEVATIONS, SITE GRADING PLANS, UTILITIES AND EXISTING CONDITIONS. NOTIFY EOR OF ANY DISCREPANCIES PRIOR TO EXCAVATION AND FOOTING 12. CONTINUOUS FOOTINGS AT VARYING ELEVATIONS SHALL BE STEPPED PER TYPICAL DETAILS. SLOPING OF 13. UTILITIES MAY NOT BE PLACED THROUGH OR BELOW FOUNDATION WITHOUT PRIOR APPROVAL BY THE

EXISTING INFORMATION PROVIDED. CONTRACTOR TO FIELD VERIFY AND NOTIFY EOR OF ANY DISCREPANCIES DISCOVERED. 15. PROVIDE PERIMETER FOOTING DRAINS IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT.

14. WHERE EXISTING FOOTINGS OCCUR, FOOTING ELEVATIONS ARE APPROXIMATE AND ARE BASED ON

CONCRETE

1. CONCRETE MIXES SHALL BE FULLY DOCUMENTED AND REVIEWED BY A QUALIFIED TESTING LABORATORY AND REVIEWED BY THE ENGINEER. REVIEW OF MIX SUBMITTALS BY THE ENGINEER OF RECORD INDICATES ONLY THAT THE INFORMATION PRESENTED CONFORMS GENERALLY WITH CONTRACT DOCUMENTS. CONTRACTOR OR SUPPLIER MAINTAINS FULL RESPONSIBILITY FOR SPECIFIED PERFORMANCE. MIX SUBMITTAL SHALL INCLUDE THE AMOUNTS OF CEMENT, CEMENTITIOUS MATERIAL, FINE AND COARSE AGGREGATE, WATER AND ADMIXTURES, AS WELL AS THE WATER-CEMENT RATIO, SLUMP, CONCRETE YIELD AND SUBSTANTIATING STRENGTH TEST DATA. SUBMIT TEST DATA ON EACH PROPOSED MIX FOR REVIEW IN ACCORDANCE WITH ACI 318 AND PROJECT SPECIFICATIONS. MIX SUBMITTED WITHOUT THE REQUIRED TEST DATA WILL BE RETURNED WITHOUT REVIEW. 2. AN INDEPENDENT TESTING AGENCY TO PERFORM FIELD QUALITY CONTROL TEST. PROVIDE FREE ACCESS TO CONCRETE OPERATIONS AT PROJECT SITE AND COOPERATE WITH APPOINTED FIRM. SUBMIT PROPOSED MIX DESIGN OF EACH CLASS OF CONCRETE TO INSPECTION AND TESTING FIRM FOR REVIEW PRIOR TO COMMENCEMENT OF CONCRETE OPERATIONS. COMPRESSIVE STRENGTH TESTS: ASTM C39/C39M, FOR EACH TEST, MOLD, AND CURE THREE CONCRETE TEST CYLINDERS, OBTAIN TEST SAMPLES FOR EVERY 100 CU YD OR LESS OF EACH CLASS OF CONCRETE PLACED. TAKE ONE ADDITIONAL THREE TEST CYLINDERS DURING COLD & HOT WEATHER CONCRETING AS DEFINED BY ACI 305 AND ACI 306, CURED ON JOB SITE UNDER SAME CONDITIONS AS CONCRETE IT REPRESENTS. PERFORM ONE SLUMP TEST FOR EACH SET OF TEST CYLINDERS TAKEN. FOLLOWING PROCEDURES OF ASTM C143/C143M. PERFORM ONE AIR CONTENT TEST FOR EACH SET OF COMPRESSIVE STRENGTH SPECIMENS, COMPLYING WITH ASTM C231. 3. PROVIDE CONSTRUCTION OR CONTROL JOINTS IN SLABS-ON-GRADE AS SHOWN IN TYPICAL DETAILS SO AS TO DIVIDE SLABS INTO APPROXIMATELY RECTANGULAR AREAS NOT OVER 225 SQUARE FEET WITH A RATIO OF LONG TO SHORT SIDES NOT OVER 1.5 AND SPACING NOT EXCEEDING 15'-0" ON CENTER. IN ADDITION, PROVIDE CONTROL JOINTS OFF OF ALL REENTRANT CORNERS TO INTERSECTION OF CONTROL JOINTS BEYOND. PROVIDE CONTROL JOINTS TO CONNECT OFFSET COLUMNS, PITS AND OTHER INTERRUPTIONS TO 4. CONCRETE COVER PROTECTION FOR REINFORCEMENT BARS SHALL BE AS FOLLOWS: (SEE ACI 318 TABLE 20.6.1.3.1 FOR CONDITIONS NOT NOTED.) A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH

B. CONCRETE EXPOSED TO EARTH OR WEATHER: BARS #5 AND SMALLER C. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND: SLABS, WALLS, JOISTS - #11 BARS AND SMALLER. BEAMS, COLUMNS - TIES, STIRRUPS, SPIRALS. 5. FORMS FOR CONCRETE SHALL BE LAID OUT AND CONSTRUCTED TO PROVIDE FOR THE REQUIRED

CAMBERS/SLOPES. DO NOT REMOVE FORMS OR BRACING UNTIL CONCRETE HAS GAINED THE SPECIFIED 28 DAY STRENGTH OR SUFFICIENT STRENGTH TO CARRY ITS OWN WEIGHT AND SUPERIMPOSED LOADS PER THE APPLICABLE PROVISIONS OF ACI 347. 6. MIXING, TRANSPORTING, AND PLACING OF CONCRETE SHALL CONFORM TO THE LATEST EDITION OF ACI 304R AND PROJECT SPECIFICATIONS. ALL CONCRETE SURFACES AGAINST WHICH CONCRETE IS TO BE PLACED SHALL BE THOROUGHLY CLEANED. LAITANCE AND STANDING WATER SHALL BE REMOVED. 7. CURE AND PROTECT CONCRETE IMMEDIATELY AFTER PLACEMENT IN ACCORDANCE WITH ACI 308, ACI 305, AND ACI 306. CURING COMPOUNDS USED ON CONCRETE THAT IS TO RECEIVE A RESILIENT TILE FINISH SHALL BE APPROVED BY THE TILE MANUFACTURER BEFORE USE. 8. WHERE INDICATED ON THE DRAWINGS, INTENTIONALLY ROUGHENED CONCRETE SHALL BE CLEAN AND FREE OF LAITANCE AND ROUGHENED TO A FULL AMPLITUDE OF 1/4". 9. GROUT SHALL BE NON-SHRINKABLE GROUT CONFORMING TO ASTM C1107 AND SHALL HAVE A SPECIFIED

COMPRESSIVE STRENGTH AT 28 DAYS OF 5000 PSI. PRE GROUTING OF BASE PLATES WILL NOT BE 10. ALL REINFORCING BARS, WELDED WIRE FABRIC, ANCHOR BOLTS, EMBEDDED PLATES AND OTHER CONCRETE INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE. PROVIDE STANDARD BAR CHAIRS AND SPACERS AS REQUIRED TO MAINTAIN CONCRETE PROTECTION SPECIFIED "PULLING-UP" WELDED WIRE FABRIC WITH HOOKS DURING CONCRETE PLACEMENT IS NOT PERMITTED 11. REINFORCING STEEL FOR CONCRETE SHALL BE AS FOLLOWS: #3 TO #18 (NON-WELDABLE).

#3 TO #18 (WELDABLE). GRADE 60. ASTM A706 .GRADE 70. DEFORMED. ASTM A1064 WELDED WIRE REINFORCEMENT REINFORCING IN SHEAR WALLS, BOUNDARY ELEMENTS, PIERS, AND COUPLING BEAMS SHALL CONFORM TO A706 OR MEET THE REQUIREMENTS OF ACI 318-14 20.2.2.5 FOR DUCTILITY OF A615 GRADE 60. REINFORCING BARS SHALL NOT BE TACK WELDED, WELDED, HEATED, OR CUT UNLESS INDICATED ON THE CONTRACT DOCUMENTS OR APPROVED BY THE STRUCTURAL ENGINEER. 12. WELDING REINFORCEMENT BARS, WHEN APPROVED BY THE STRUCTURAL ENGINEER, SHALL CONFORM TO THE AMERICAN WELDING SOCIETY STANDARD D1.4. LATEST EDITION. E70XX ELECTRODES SHALL BE USED

IN WELDING A706 REINFORCING BARS TO STRUCTURAL STEEL 13. DETAILING OF CONCRETE REINFORCEMENT BARS AND ACCESSORIES SHALL CONFORM TO THE RECOMMENDATIONS OF THE LATEST EDITION OF THE ACI 315 DETAILING MANUAL. 14. CONDUIT OR PIPE SIZE (OD) SHALL NOT EXCEED 30 PERCENT OF SLAB THICKNESS AND SHALL BE PLACED BETWEEN TOP AND BOTTOM REINFORCING, UNLESS SPECIFICALLY DETAILED OTHERWISE. CONCENTRATION OF CONDUITS OR PIPES SHALL BE AVOIDED EXCEPT WHERE DETAILED OPENINGS ARE 15. PROVIDE SLEEVES FOR PLUMBING AND ELECTRICAL OPENINGS IN CONCRETE BEFORE PLACING, CORING THROUGH CONCRETE IS NOT PERMITTED EXCEPT WHERE SHOWN. NOTIFY THE STRUCTURAL ENGINEER IN

ADVANCE OF CONDITIONS NOT SHOWN ON THE DRAWINGS.

16. FOR CONCRETE MIX REQUIREMENTS. SEE CONCRETE MIX DESIGN TABLE. ALTERNATIVE MIX DESIGNS ARE ACCEPTABLE PROVIDED IT IS STAMPED BY A REGISTERED PROFESSIONAL 17. SEE OTHER DISCIPLINE DRAWINGS FOR CONCRETE REQUIREMENTS FOR NON-STRUCTURAL EXTERIOR CONCRETE (SIDEWALKS, APRONS, ETC).

CONCRETE MIX DESIGN					
APPLICATION	f'c (PSI)	EXPOSURE CATEGORY PER ACI 318 TABLE 19.3.1.1	MAX W/CM RATIO		
FOOTINGS, GRADE BEAMS, FND TIES, & EQUIPMENT PADS	3,000	F0	N/A		
SLAB ON GRADE (SEE NOTE G)	3,500	F0	0.5		
CONCRETE WALL/TILT	4,000	F0	N/A		

A. CEMENT SHALL BE PORTLAND CEMENT TYPE I OR TYPE II AND CONFORM TO ASTM C150 OR BLENDED HYDRAULIC CEMENT TYPE IL AND CONFORM TO ASTM C595. SEE NOTE G FOR SLAB ON GRADE AND SLAB ON METAL DECK CEMENT. B. AGGREGATE FOR NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C33. AGGREGATE FOR LIGHTWEIGHT CONCRETE SHALL CONFORM TO ASTM C330. MINIMUM COARSE AGGREGATE SIZE IS 1/2 INCH AND A MAXIMUM COARSE AGGREGATE SIZE PER ACI 318-14 SECTION 26.4.2.1(a)(4). USE AGGREGATES WITH A NOMINAL MAXIMUM SIZE OF 1 1/2"

2. ADMIXTURES TO BE INCLUDED IN MIX TEST DATA FOR APPROVAL. ADMIXTURES USED TO INCREASE THE WORKABILITY OF THE CONCRETE SHALL NOT BE CONSIDERED TO REDUCE THE SPECIFIED MINIMUM CEMENT CONTENT. CALCIUM CHLORIDE SHALL NOT BE USED.

D. CONCRETE SLUMP SHALL BE 4 INCHES +/- 1 INCH. EXCEPTION: MIX DESIGNED WITH PLASTICISER OR WATER REDUCER. E. MAXIMUM WEIGHT OF NORMAL-WEIGHT CONCRETE SHALL BE 150 PCF AND MAXIMUM WEIGHT OF LIGHT-WEIGHT CONCRETE SHALL BE 115 PCF. F. FOR CONCRETE IN EXPOSURE CATEGORIES F1,F2, OR F3, AIR CONTENT SHALL MEET THE REQUIREMENTS OF ACI 318-14

G. ADDITIONAL REQUIREMENTS FOR SLAB-ON-GRADE AND CONCRETE OVER METAL DECK MIX: COARSENESS FACTOR OF 70% +/- 2%. TYPE II CEMENT WEIGHT OF 520LB MAX PER CUBIC YARD - 4" MAX SLUMP W/O ADMIXTURE. WITH AN ADMIXTURE, SLUMP MAY BE INCREASED PROVIDED THE

STRENGTH AND SLUMP WITH THE ADMIXTURE IS INCLUDED IN TEST DATA.

- WHERE ALTERNATIVE MIX DESIGN IS DESIRED, SEE CONCRETE NOTE 16.

SITE CAST TILT-UP CONCRETE WALL PANEL

1. UNLESS NOTED OTHERWISE, PANELS SHOWN ON DRAWINGS ARE TO BE PRE CAST ON SITE, TILT-UP CONCRETE WALL PANELS. SEE GENERAL NOTES SECTIONS: "CONCRETE" AND "STRUCTURAL STEEL" FOR CONCRETE, REINFORCEMENT BARS, AND EMBEDDED PLATE SPECIFICATIONS 3. THE CENTERLINE OF SINGLE MAT STEEL SHALL COINCIDE WITH THE CENTERLINE OF THE STRUCTURAL THICKNESS OF THE PANEL. PANELS WITH TWO LAYERS OF MAT STEEL SHALL HAVE A MAT 1-1/2" CLEAR ON THE OUTSIDE FACE AND 1" CLEAR ON THE INSIDE FACE U.O.N. SEE PANEL ELEVATIONS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS. 4. PROVIDE (2) #5 CONTINUOUS AT THE TOP, BOTTOM AND SIDES OF EACH PANEL AND AT THE HEAD, JAMBS AND SILL OF EACH OPENING AND EACH FUTURE KNOCKOUT OPENING IN THE PANEL. SEE DRAWINGS FOR ADDITIONAL REINFORCEMENT. 5. THE GENERAL CONTRACTOR SHALL REVIEW AND VERIFY ALL PANEL DIMENSIONS, OPENINGS, BEAM AND JOIST POCKET LOCATIONS, WELD PLATE LOCATIONS AND REPORT ANY DISCREPANCIES TO THE STRUCTURAL ENGINEER PRIOR TO CASTING PANELS. 6. EXPOSED EDGES OF PANELS SHALL BE CHAMFERED, EXCEPT AT THE INSIDE FACE OF OVERHEAD DOORS. 7. SEE ARCHITECTURAL DRAWINGS FOR PANEL FINISHES, REVEALS, CHAMFERS, ETC 8. THE PANELS HAVE BEEN DESIGNED FOR THE IN-SERVICE CONDITIONS ONLY. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PANEL LIFTING DESIGN AND METHOD. 9. LIFTING INSERTS VISIBLE AFTER FINAL CONSTRUCTION SHALL BE PATCHED AND FINISHED TO MEET THE ARCHITECT'S APPROVAL. 10. TEMPORARY BRACING OF PANELS SHALL NOT BE REMOVED UNTIL AFTER THE PERMANENT STRUCTURE HAS BEEN COMPLETED

STRUCTURAL WOOD

5000 PSI.

1. THE QUALITY OF ALL WOOD MEMBERS AND THEIR FASTENINGS SHALL CONFORM TO CHAPTER 23 OF THE IBC. 2. ALL FRAMING MEMBERS AND PLYWOOD SHALL CONFORM TO THE FOLLOWING SPECIFIED TABLES, UNLESS NOTED OTHERWISE DF-L PORTION OF TABLE 4A & 4B (NDS)Q FRAMING MEMBERS SHEATHING ALL STRUCTURAL SHEATHING SHALL BE FABRICATED WITH EXTERIOR GLUE CONFORMING TO U.S. PRODUCTS

11. SET UNITS DRY, WITHOUT GROUT, ATTAINING JOINT DIMENSIONS WITH SHIMS. PROVIDE SUFFICIENT SHIMS

TO PREVENT SETTLEMENT, ROTATION, OR DAMAGE TO THE FOOTINGS. GROUT PACK BASE OF UNIT WITH

NON-SHRINKABLE GROUT CONFORMING TO ASTM C1107 WITH A COMPRESSIVE STRENGTH AT 28 DAYS OF

STANDARD PS-1 FOR CONSTRUCTION AND INDUSTRIAL SHEATHING. 4. ALL FRAMING MEMBERS AND SHEATHING SHALL BE GRADE MARKED 5. FRAMING MEMBERS SHALL CONFORM TO THE FOLLOWING GRADES UNO ON PLANS **DF-L. STUD OR BETTER JOISTS** DF-L, #2 OR BETTER

PLATES DF-L, #2 OR BETTER 6. IBC TABLE 2304.10.1, NAILING SCHEDULE, SHALL GOVERN UNLESS MORE RESTRICTIVE NAILING IS INDICATED ON THE PLANS OR DETAILS. 7. WHERE LEDGER, SILL PLATES, POSTS, OR STUDS ARE BEARING DIRECTLY ON CONCRETE OR MASONRY, PROVIDE GRACE VYCOR PLUS BARRIER BETWEEN WOOD MEMBERS AND CONCRETE OR MASONRY

8. BOLT HOLES IN WOOD SHALL BE 1/32" TO 1/16" LARGER THAN THE BOLT, DEPENDING ON BOLT SIZE. 9. BOLT HOLES SHALL NOT BE LESS THAN 7x DIA. FROM THE END AND 4x DIA. FROM THE EDGE OF THE MEMBER, UNLESS NOTED OTHERWISE. 10. BOLTS USED IN WOOD SHALL BE A307.

11. PRE-DRILL NAIL HOLES WHERE NECESSARY TO PREVENT SPLITTING. 12. EACH GLU-LAMINATED MEMBER SHALL BE STAMPED WITH AN IDENTIFYING NUMBER AND SHALL BE ACCOMPANIED BY A CERTIFICATE OF INSPECTION CERTIFYING THAT THE MEMBERS MEET THE IBC REQUIREMENTS. SUCH CERTIFICATES MUST BE MADE BY AN APROVED AGENCY OF THE A.P.A. 13. GLU-LAMINATED MEMBERS SHALL BE A COMBINATION OF 24F-1.8E-V4 (DF-L) INDUSTRIAL GRADE, AND EXTERIOR GLUE, UNLESS NOTED OTHERWISE ON PLAN.

14. GLU-LAMINATEDS COLUMNS SHALL BE 2-DF-L2 (DF-L). 15. ALL SUSPENDED LOADS FROM SUBPURLINS ARE PROHIBITED WITHOUT PRIOR APPROVAL FROM ENGINEER. 16. ALL HANGERS, POST CAPS AND BASES ARE BY SIMPSON OR APPROVED EQUIVALENT. PROVIDE SIMPSON (OR APPROVED EQUIVALENT) HANGERS FOR BEAMS, JOISTS, POST BASES AND CAPS FOR COLUMNS UNLESS NOTED ON PLANS AND DETAILS. 17. WHERE DIAPHRAGM AND SHEARWALL SHEATHING NAILING IS LESS THAN 3" ON CENTER USE 3x FRAMING AND

18. ALL WOOD STRUCTURAL/BEARING WALLS SHALL HAVE FOUNDATION/SILL ANCHORAGE MEETING THE MINIMUM REQUIREMENTS OF IBC SECTION 2308 U.N.O. BUT NOT LESS THAN 1/2" Ø ANCHOR BOLTS @ 6'-0" O.C. MAX WITH A MINIMUM OF (2) PER WALL SEGMENT AND MINIMUM 6" EMBEDMENT.

STAGGER NAILING PER SHEET **\$0.10 U.O.N**. ALL DIAPHRAM AND SHEAR WALL PANEL EDGES TO BE BLOCKED

LIGHT GAGE STEEL FRAMING

STRUCTURAL STEEL

LIGHT-GAGE STEEL SHALL CONFORM TO:

A. ASTM A 653 SS GRADE 50, CLASS 1 OR CLASS 3 (Fy = 50 KSI) FOR 0.0566 INCH THROUGH 0.1017 INCH B. ASTM A 653 SS GRADE 33 (Fy = 33 KSI) FOR 0.0180 INCH THROUGH 0.0451 INCH THICKNESS. 2. ALL FABRICATION, ERECTION, AND IDENTIFICATION OF LIGHT-GAGE STEEL FRAMING SHALL CONFORM TO IBC SECTIONS 2209 AND 2210 AND AISI SPECIFICATIONS. 3. PROVIDE ALL ACCESSORIES INCLUDING, BUT NOT LIMITED TO, TRACKS, CLIPS, WEB STIFFENERS. ANCHORS. FASTENING DEVICES AND OTHER ACCESSORIES REQUIRED FOR A COMPLETE AND PROPER INSTALLATION.

4. INSTALL BRIDGING/BLOCKING IN LIGHT-GAGE STEEL STUD WALLS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND AS SHOWN IN THE DRAWINGS. 5. WELD LIGHT-GAGE STEEL FRAMING CONNECTIONS, EXCEPT WHERE SELF- DRILLING SCREWS ARE

6. WELDS SHALL CONFORM TO AWS SPECIFICATIONS. WELDERS SHALL BE CERTIFIED FOR LIGHT-GAGE STEEL UNDER AWS SPECIFICATIONS. 7. DESIGNATIONS OF COLD-FORMED, LIGHT-GAGE STEEL SHAPES REFER TO THOSE DESCRIBED IN ICC-ES EVALUATION REPORT ESR-3064P OF THE METAL STUD MANUFACTURERS' ASSOCIATION. 8. SHEET METAL SCREWS SHALL BE OF THE MAKE SPECIFIED IN THE DRAWINGS OR, WHERE NO SPECIFIC MAKE IS GIVEN, SHALL BE RATED BY THEIR MANUFACTURER AS POSSESSING DESIGN LOAD CAPACITIES IN SHEAR AND TENSION AT LEAST EQUAL TO THOSE PUBLISHED IN ICBO EVALUATION REPORT NO. 4943 OF

THE METAL STUD MANUFACTURERS' ASSOCIATION FOR THE SCREW SIZE SPECIFIED 9. FOR EXTERIOR STUDS SEE DETAILS AT PERIMETER. FOR NON-BEARING INTERIOR STUDS SEE ARCH. 10. SHEET METAL SCREWS SHALL HAVE A MINIMUM CENTER-OF-SCREW TO EDGE-OF-STEEL DIMENSION OF 1.5 TIMES THE NOMINAL DIAMETER OF THE SCREW. WHERE MULTIPLE FASTENERS ARE USED IN A CONNECTION, THE MINIMUM CENTER-TO-CENTER SPACING OF SCREWS SHALL BE 3 TIMES THE NOMINAL

1. ALL W-SECTION SHAPES SHALL CONFORM TO ASTM A992. CHANNEL SHAPES, ANGLES, AND PLATES SHALL CONFORM TO ASTM A36. (UNLESS OTHERWISE NOTED ON THE DWG). 2. STRUCTURAL STEEL PIPE SHALL CONFORM TO ASTM A53, GRADE B (Fy = 35 KSI). MILL TEST REPORTS FOR

STEEL PIPE SHALL BE SUBMITTED FOR APPROVAL. 3. HOLLOW STRUCTURAL SECTIONS SHALL CONFORM TO ASTM A500, GRADE C (Fy = 50 KSI RECTANGULAR, Fy = 4. ANCHOR BOLTS SHALL CONFORM TO ASTM F1554 GR 36, UNLESS NOTED OTHERWISE 5. STRUCTURAL STEEL DETAILING, FABRICATION AND ERECTION SHALL CONFORM TO THE LATEST EDITION OF AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" WITH AMENDMENTS, AND THE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" WITH AMENDMENTS. 6. BUCKLING-RESTRAINED BRACED FRAMES SHALL CONFORM TO THE REQUIREMENTS OF AISC 341, SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS AS WELL AS THE DESIGN PARAMETERS SET FORTH IN THE

SUBMITTING TO JURISDICTION FOR REVIEW AND PERMITTING. 7. BOLTS 3/4"Ø AND GREATER TO BE ASTM A325 OR ASTM F1852, TYPE 1 (TWIST - OFF TENSION CONTROL BOLTS) WITH THREADS INCLUDED IN SHEAR PLANE, INSTALLED PER SECTION 8. FOR BOLTS INDICATED AS SLIP CRITICAL ON THE DRAWING MINIMUM PRETENSION AS STATED IN TABLE 8.1 AND INSPECTED PER SECTION 9 OF THE RCSC SPECIFICATION. FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS. PROVIDE ASTM A490 BOLTS OR ASTM F2280 TWIST-OFF TENSION CONTROL BOLTS WHERE ASTM A1064 GR 70 BOLTS ARE INDICATED ON PLANS OR DETAILS. BOLTS NOTED AS TYPE SC (SLIP-CRITICAL) IN DETAILS SHALL BE INSTALLED AS SLIP-CRITICAL WITH FAYING SURFACES PREPARED AS CLASS A SURFACE PER AISC 360. FOR BOLTS LESS THAN 3/4"Ø USE A307. FOR BOLTS NOT INDICATED AS SLIP CRITICAL SNUG TIGHT CONNECTIONS ARE

DRAWINGS. STRUCTURAL CALCULATIONS AND DETAILS FOR THE BRB CONNECTIONS SHALL BE PROVIDED BY

A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF THE PROJECTS TO ARCHITECT/ENGINEER BEFORE

ACCEPTABLE 8. SPLICING OF STRUCTURAL STEEL MEMBERS WHERE NOT DETAILED ON THE CONTRACT DOCUMENTS IS PROHIBITED WITHOUT THE PRIOR APPROVAL OF THE STRUCTURAL ENGINEER AS TO LOCATION, TYPE OF SPLICE AND CONNECTION TO BE MADE.

9. HEADED SHEAR CONNECTORS STUDS ON COMPOSITE STEEL BEAMS SHALL BE UNIFORMLY SPACED U.O.N. DO NOT USE MORE THAN ONE STUD PER RIB WHERE THE NUMBER OF STUDS REQUIRED IS LESS THAN OR EQUAL TO THE NUMBER OF RIBS AVAILABLE. PLACE A MINIMUM OF ONE STUD PER RIB FULL LENGTH OF THE BEAM. PLACE ADDED STUDS IN EACH RIB BEGINNING AT THE SUPPORTS AND MOVING TOWARDS THE MID-SPAN UNTIL REQUIRED NUMBER OF STUDS IS SUPPLIED. FOR MULTIPLE STUDS TRANSVERSE TO THE LONGITUDINAL AXIS OF THE BEAM. THE MINIMUM STUD SPACING TO BE 3" OC AND 1" MINIMUM CLEAR FROM THE FLANGE EDGE. SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO THE INSTALLATION OF THE HEADED STUDS.PROVIDE STUDS AT 12" O.C. IF NOT SHOWN ON PLAN. 10. HEADED CONCRETE ANCHORS SHALL BE NELSON HEADED CONCRETE ANCHORS (OR APPROVED EQUAL),

AND SHALL CONFORM TO ASTM A1064. ANCHORS SHALL BE AUTOMATICALLY END WELDED WITH SUITABLE STUD WELDING EQUIPMENT IN THE SHOP OR IN THE FIELD. WELDING SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE NELSON STUD WELDING COMPANY. 11. DEFORMED BAR ANCHORS (DBA) SHALL BE NELSON DEFORMED BAR ANCHORS (OR APPROVED EQUAL), AND SHALL BE MADE FROM LOW CARBON STEEL CONFORMING TO ASTM A496. ANCHORS SHALL BE AUTOMATICALLY END- WELDED WITH SUITABLE WELDING EQUIPMENT IN THE SHOP OR IN THE FIELD. WELDING SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE NELSON STUD WELDING COMPANY 12. WELDS USED IN MEMBERS & CONNECTIONS DESIGNATED IN THE DRAWINGS AS SEISMIC FORCE REISSTING SYSTEM (SFRS) SHALL BE MADE WITH FILLER METALS MEETING THE REQUIREMENTS IN AWS D1.8 SECTION 6.3 (AISC341-10 SECTIONS A3.4a&b). WELDS USED IN MEMBERS & CONNECTIONS DESIGNATED IN THE DRAWINGS AS DEMAND CRITICAL (DC) SHALL BE MADE WITH FILLER METALS MEETING THE REQUIREMENTS IN AWS D1.8 SECTION 6.3, INCLUDING SUB-CLAUSES 6.3.5, 6.3.6, 6.3.7, & 6.3.8 13. SUBMIT A WELDING PROCEDURE IN ACCORDANCE WITH LATEST EDITION OF AWS D1.1. WHERE WELDS ARE

FOR MEMBERS DESIGNATED PART OF THE SFRS OR LABELED DEMAND CRITICAL, WELDING PROCEDURES SHALL CONFORM TO AWS D1.8 AND MANUFACTURER'S RECOMMENDATIONS (WHERE APPLICABLE). APPROVED PROCEDURES TO BE SUBMITTED TO SPECIAL INSPECTOR FOR REVIEW AND APPROVAL THEN TO THE ENGINEER FOR REVIEW. 14. WELDS SHALL CONFORM TO AWS SPECIFICATIONS. WELDERS SHALL BE CERTIFIED UNDER AWS SPECIFICATIONS. E70xx ELECTRODES SHALL BE USED FOR ALL WELDS. 15. SEE FRAME ELEVATIONS FOR LOCATION OF PROTECTED ZONES FOR LATERAL RESISTIVE FRAMES. NO

16. LOWEST ANTICIPATED SERVICE TEMPERATURE (LAST) SHALL BE 50° F FOR INDOOR CONDITIONED STRUCTURES & 0° F FOR OUTDOOR/UNCONDITIONED STRUCTURES 17. ALL EXTERIOR STEEL TO BE GALVANIZED. PLUG GALV HOLES w/ ALUMINUM PLUGS.

CONNECTIONS OR ATTACHMENTS ARE PERMITTED WITHIN PROTECTED ZONES.

PLUMBING, AND SPRINKLER LOADS WITH THE JOIST DESIGNER.

1. GENERAL CONTRACTOR TO COORDINATE MECHANICAL, ELECTRICAL, PLUMBING, AND SPRINKLER LOADS

WITH JOIST DESIGNER. ALL LOADS UNLESS OTHERWISE NOTED ARE ALLOWABLE LOADS (ASD). OPEN WEB STEEL JOISTS & JOIST GIRDERS WITH THEIR BRIDGING, BRACING, END SUPPORTS AND ANCHORAGE, AND ERECTION STABILITY AND HANDLING REQUIREMENTS SHALL CONFORM TO THE APPLICABLE STEEL JOIST INSTITUTE STANDARD SPECIFICATIONS FOR STEEL JOISTS AND JOIST GIRDERS, LATEST EDITION. TOP CHORDS OF JOISTS AND JOIST GIRDERS SHALL CONSIST OF ANGLES OR TEES. SUBMIT ERECTION DRAWINGS AND CALCULATIONS (BEARING THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT) FOR THE DESIGN OF THE STEEL JOISTS AND JOIST GIRDERS,

PER SECTION 2207 OF THE IBC. PROVIDE A CERTIFICATE OF COMPLIANCE FROM THE MANUFACTURER PER

SECTION 2207 OF THE IBC. APPROVED ERECTION DRAWINGS AND CALCULATIONS ARE TO BE SUBMITTED TO

JURISDICTION FOR REVIEW AND PERMITTING. CONTRACTOR TO COORDINATE ALL MECHANICAL, ELECTRICAL

POST-INSTALLED ANCHORS

ANCHORS FOR ANCHOR INSTALLER.

. POST-INSTALLED ANCHOR SYSTEMS SHALL COMPLY WITH THE LATEST REVISION OF ICC-ES ACCEPTANCE CRITERIA AND HAVE A VALID ICC-ES REPORT (OR APPROVED EQUIVALENT) IN ACCORDANCE WITH THE

APPLICABLE BUILDING CODE. UNLESS OTHERWISE NOTED ON THE DRAWINGS USE ANCHORS LISTED BELOW: EXPANSION ANCHORS IN CONCRETE SHALL BE ONE OF THE FOLLOWING: HILTI HSL-3 CARBON STEEL HEAVY DUTY EXPANSION ANCHOR (ICC-ES REPORT ESR-1545) HILTI HDA CARBON AND STAINLESS STEEL UNDERCUT ANCHOR (ICC-ES REPORT ESR-1546) HILTI KWIK BOLT TZ CARBON AND STAINLESS STEEL ANCHORS (ICC-ES REPORT ESR-1917) DeWALT POWER-STUD+SD2 ANCHOR (ICC-ES REPORT ESR-2502)

 SIMPSON STRONG-TIE STRONG-BOLT 2 ANCHOR (ICC-ES REPORT ESR-3037) ADHESIVE ANCHORS IN CONCRETE SHALL BE ONE OF THE FOLLOWING: HILTI HIT-RE 500 V3 ADHESIVE ANCHOR (ICC-ES REPORT ESR-3814) HILTI HIT-HY 200 ADHESIVE ANCHOR (ICC-ES REPORT ESR-3187) DeWALT PURE 110+ EPOXY ADHESIVE ANCHOR (ICC-ES REPORT ESR-3298)

 DeWALT AC200+ ADHESIVE ANCHOR (ICC-ES REPORT ESR-4027) SIMPSON STRONG-TIE SET-XP EPOXY ADHESIVE ANCHOR (ICC-ES REPORT ESR-2508) SIMPSON STRONG-TIE AT-XP EPOXY ADHESIVE ANCHOR (IAPMO UES ER-263) SCREW ANCHORS IN CONCRETE SHALL BE ONE OF THE FOLLOWING: DeWALT SCREW-BOLT+ SCREW ANCHOR (ICC-ES REPORT ESR-3889) HILTI KWIK HUS-EZ SCREW ANCHOR (ICC-ES REPORT ESR-3027) SIMPSON STRONG-TIE TITEN HD SCREW ANCHOR (ICC-ES REPORT ESR-2713)

ANCHORS IN CONCRETE OVER STEEL DECK SHALL BE ONE OF THE FOLLOWING: HILTI KWIK BOLT TZ CARBON AND STAINLESS STEEL ANCHORS (ICC-ES REPORT ESR-1917) HILTI HIT-RE 500 V3 ADHESIVE ANCHORS (ICC-ES REPORT ESR-3814) DeWALT POWER-STUD+SD2 EXPANSION ANCHOR (ICC-ES REPORT ESR-2502) DeWALT POWER-STUD+SD1 EXPANSION ANCHOR (ISS-ES REPORT ESR-2818) DeWALT SCREW-BOLT+ SCREW ANCHOR (ICC-ES REPORT ESR-3889) SIMPSON STRONG-TIE STRONG-BOLT 2 WEDGE ANCHOR (ICC-ES REPORT ESR-3037) SIMPSON STRONG-TIE TITEN HD SCREW ANCHOR (ICC-ES REPORT ESR-2713)

 HILTI KWIK BOLT 3 (KB3) ANCHORS (ICC-ES ESR-1385) DeWALT POWER-STUD+SD1 (ICC-ES ESR-2966) SIMPSON STRONG-TIE WEDGE-ALL ANCHOR (ICC-ES REPORT ESR-1396) SIMPSON STRONG-TIE STRONG-BOLT 2 WEDGE ANCHOR (IAPMO UES ER-240) ADHESIVE ANCHORS IN MASONRY SHALL BE ONE OF THE FOLLOWING:

EXPANSION ANCHORS IN MASONRY SHALL BE ONE OF THE FOLLOWING:

POST INSTALLED ANCHORS WITHOUT PRIOR APPROVAL FROM A&E.

 HILTI HIT-HY 270 ADHESIVE ANCHOR (ICC-ES REPORT ESR 4143 & 4144) DeWALT AC100+ GOLD ADHESIVE ANCHOR (ICC-ES REPORT ESR-3200 FOR CMU & ICC-ES REPORT ESR-4105 FOR UNREINFORCED MASONRY) SIMPSON STRONG-TIE SET-XP EPOXY ADHESIVE ANCHOR (IAPMO UES ER-265) SIMPSON STRONG-TIE AT-XP EPOXY ADHESIVE ANCHOR (IAPMO UES ER-281) SCREW ANCHORS IN MASONRY SHALL BE ONE OF THE FOLLOWING: HILTI KWIK HUS-EZ SCREW ANCHOR (ICC-ES REPORT ESR-3056

 DeWALT SCREW-BOLT+ SCREW ANCHOR (ICC-ES REPORT ESR-4042) SIMPSON STRONG-TIE TITEN HD SCREW ANCHOR (ICC-ES REPORT ÉSR-1056) ANCHORS INSTALLED IN THE BOTTOM OF CONCRETE OVER STEEL DECK SHALL BE INSTALLED IN THE BOTTOM

6. MANUFACTURER'S INSTALLATION TRAINING AND CERTIFICATION IS REQUIRED ON ALL POST-INSTALLED

4. ANCHORS ARE NOT TO BE INSTALLED UNTIL CONCRETE HAS REACHED ITS DESIGN STRENGTH. 5. FOR ANCHOR EMBEDMENT, SEE DRAWINGS OR TYPICAL DETAIL. USE EMBEDMENT RECOMMENDED BY MANUFACTURER WHERE NO EMBEDMENT IS SHOWN.

7. CONTRACTOR COORDINATE ANCHOR AND REINFORCING LOCATION. IT IS UNACCEPTABLE TO CUT REBAR FOR

IN ACCORDANCE WITH IBC CHAPTER 17, THE FOLLOWING TYPES OF WORK REQUIRE SPECIAL INSPECTION. SEE THE SPECIFICATIONS AND DRAWINGS FOR ADDITIONAL REQUIREMENTS FOR INSPECTION AND TESTING. SPECIAL INSPECTION SHALL BE PAID FOR AND PROVIDED BY THE OWNER.

SPECIAL INSPECTION the IBC for the City of Puyallup.

WABO Certified inspectors meet screening requirements of

FREQUENCY

				CON	Ë	
MATERIAL		TA	ASK	ŏ		RESPONSIBLE FIRM
			ATING, & FILL	INSP	-	GEOTECH OF RECORD
EARTHWORK		MATERIAL	NI .	-	TEST	GEOTECH OF RECORD
	REINF	COMPACTIO FORCING ST TRESSING S	EEL, INCLUDING	-	INSP	GEOTECH OF RECORD
	PLAC	EMENT	,	-	INSP	SPECIAL INSPECTOR
		OF REQUIRE GN MIX	D CONCRETE	-	INSP	SPECIAL INSPECTOR
		E, LOCATION ONCRETE ME	N, & DIMENSIONS EMBER	-	INSP	SPECIAL INSPECTOR
CAST-IN-PLACE CONCRETE	BOLT	S INSTALLEI) IN CONCRETE	INSP	-	SPECIAL INSPECTOR
		FORCED CON EMENT	NCRETE	INSP	-	SPECIAL INSPECTOR
	ADHE	SIVE ANCHO	ORS	INSP	-	SPECIAL INSPECTOR
	EXPA	NSION ANCH	IORS	-	INSP	SPECIAL INSPECTOR
	SPEC	IFIED CURIN	G TECHNIQUES	-	INSP	SPECIAL INSPECTOR
	CONC	RETE MATE	RIALS	-	TEST	TESTING LAB
	SHOP	P FABRICATION	N	-	-	NOTE 1
	SHOP	WELDING		-	-	NOTE 1
		_	R CONFORMANCE TION DOCUMENTS	-	INSP	SPECIAL INSPECTOR
	FIELD	WELDED CO	ONNECTIONS			
		SINGLE-PAS	SS FILLET WELDS		INIOD	ODEOLAL INIODEOTOD
			OR LESS THAN 5/16"	-	INSP	SPECIAL INSPECTOR
		SINGLE-PAS GREATER T	SS FILLET WELDS THAN 5/16"	INSP	-	SPECIAL INSPECTOR
		MULTI-PAS	S FILLET WELDS	INSP	-	SPECIAL INSPECTOR
STRUCTURAL STEEL, STEEL DECK, & PRECAST		PJP GROOV		INSP	-	SPECIAL INSPECTOR
CONCRETE		CJP GROOVE	BEFORE DURING	- INSP	INSP	SPECIAL INSPECTOR TESTING LAB
		WELDS	AFTER	-	TEST	TESTING LAB
		DECK WELL	os	-	INSP	SPECIAL INSPECTOR
		WELDING C	F REINFORCING	INSP	-	NOTE 2
				-	TEST	SPECIAL INSPECTOR
		HEADED ST	UDS	-	TEST	SPECIAL INSPECTOR
		STRENGTH	BOLT EARING TYPE)	-	INSP	SPECIAL INSPECTOR
		<u> </u>	, , , , , , , , , , , , , , , , , , ,	-	INSP	TESTING LAB SPECIAL INSPECTOR
		-STRENGTH ALLATION (SI	LIP-CRITICAL)	-	TEST	TESTING LAB
	_		ECAST CONCRETE	_	INSP	SPECIAL INSPECTOR
	MEME			-		
	ALL SUB-PURLIN HANGERS - INSP SPECIAL INSPEC LATERAL FORCE RESISTING MEMBERS	SPECIAL INSPECTOR				
	LATE	RAL FORCE	RESISTING MEMBER	.5		
			" OC & STRAPPING		INCD	ODEOLAL INIODEOTOD
		OF SHEARV DIAPHRAGN	MS, & TOP CHORDS	-	INSP	SPECIAL INSPECTOR
STRUCTURAL WOOD FRAMING						
FRAMING		NAILING, BO	OLTING, G, & FASTENING OF	_	INSP	SPECIAL INSPECTOR
		OTHER ELE			11401	OF EGIAL INOT EGYOR
		GANG NAII	TRUSSES W/ SPAN			
		> 60': MEMB	ER RESTRAINT ISTALLATION	-	INSP	SPECIAL INSPECTOR
		BI CAOIIVO IIV	TALLATION			
	CONS	STRUCTION (OF MORTAR JOINTS	-	INSP	SPECIAL INSPECTOR
	GROL	JT SPACE PF	REPARATION	-	INSP	SPECIAL INSPECTOR
	TYPE	, SIZE, & LOC	CATION OF REINF &		INCD	SPECIAL INSPECTOR
	ANCH	IORAGES		-	INSP	
STRUCTURAL MASONRY		EMENT OF G		INSP	-	SPECIAL INSPECTOR
		& HOT WEA EDURES	THER	-	INSP	SPECIAL INSPECTOR
	MORT		T PROPORTIONS	_	INSP	SPECIAL INSPECTOR
	WOR		TT NOT OITHORD	_	11101	OF EGIAL INOT EGTOR
	GROU PRISM		R SPECIMENS /	-	INSP	SPECIAL INSPECTOR
	FIELD	WELDED CO	ONNECTIONS	-	INSP	SPECIAL INSPECTOR
	ADHE	SIVE ANCHO	ORS	INSP	-	SPECIAL INSPECTOR
		NSION ANCH	IORS	-	INSP	SPECIAL INSPECTOR
	SCRE		ONNECTIONS	-	INSP	SPECIAL INSPECTOR SPECIAL INSPECTOR
			RESISTING MEMBER	S		O
COLD-FORMED STEEL FRAMING						
		FASTENING STRAPPING	S < 4" OC & S OF SHEARWALLS,	-	INSP	SPECIAL INSPECTOR
			MS, & TOP CHORDS			
		FASTENING	NCHORING, & GOF OTHER	-	INSP	SPECIAL INSPECTOR
		ELEMENTS				
METAL EARRICATIONS		SIVE ANCHO		INSP	-	SPECIAL INSPECTOR
METAL FABRICATIONS, METAL STAIRS, RAILINGS, & HANDRAILS		NSION ANCH		-	INSP	SPECIAL INSPECTOR SPECIAL INSPECTOR
& HANDRAILS		RETE MATE		-	TEST	TESTING LAB
SPRAYED	SDD^	YED FIRE-RE	SISTIVE			
FIRE-RESISTIVE MATERIAL		RIALS	_3.0 H V L	-	TEST	TESTING LAB
SPECIAL CASES						
					<u>-</u>	

SPECIAL INSPECTION OF SHOP FABRICATION AND SHOP WELDING SHALL MATCH THE REQUIREMENTS FOR FIELD FABRICATION AND FIELD WELDING UNLESS SHOP CERTIFICATION DOCUMENTS ARE REVIEWED AND ACCEPTED BY THE OWNER. IF APPROVED BY THE OWNER. SPECIAL INSPECTION OF SHOP FABRICATION AND SHOP WELDING SHALL NOT BE REQUIRED FOR CERTIFIED FABRICATORS AS REQUIRED BY THE STRUCTURAL STEEL SECTION OF THE GENERAL STRUCTURAL NOTES.

CONTINUOUS INSPECTION REQUIRED FOR WELDING OF REINFORCING STEEL RESISTING FLEXURAL & AXIAL FORCES IN INTERMEDIATE & SPECIAL MOMENT FRAMES, BOUNDARY ELEMENTS OF SPECIAL STRUCTURAL WALL OF CONCRETE, & SHEAR REINFORCEMENT. PERIODIC INSPECTION IS ACCEPTABLE FOR WELDING OF OTHER REINFORCING STEEL.

CONTACT INFORMATION

PHONE: (206) 749-9993

CONTACT: ANDY TATKOWSKI STEPHAN AHN ALEXIUS TAN EMAIL: art@mcknze.com sha@mcknze.com att@mcknze.com

(206) 749-9993 (206) 749-9993

BBREVIATIONS	ABBREVIATIONS
AND	TOIST TOIST

JOIST KIPS KEYNOTE ANCHOR BOLTS KIPS PER SQUARE FOOT AMERICAN CONCRETE INSTITUTE KIPS PER SQUARE INCH ADDL ADDITIONAL ARCHITECTURALLY EXPOSED ANGLE STRUCTURAL STEEL LIVE LOAD ABOVE FINISHED FLOOR LONG LEG HORIZONTAL LLH AMERICAN INSTITUTE OF STEEL LONG LEG VERTICAL CONSTRUCTION ALTERNATE LONG/LONGIT LONGITUDINAL APPROX **APPROXIMATE** LAMINATED STRAND LUMBER ARCH ARCHITECT(URAL LAMINATED VENEER LUMBER ALL-THREAD ROD MASONRY MATERIAL **BOTTOM OF** MAXIMUM **BOUNDARY ELEMENT** BLDG MACHINE BOLT BUILDING BLKG MECHANICAL BLOCKING MFR / MANU MANUFACTURER BOUNDARY NAIL(ING) MINIMUM BOT / BOTT MISCELLANEOUS BOTTOM METAL BASE PLATE BEARING BTWN BETWEEN NOT IN CONTRACT NO / # NUMBER COLD FORMED STEEL NOM NOMINAL **NEAR SIDE** CAST-IN-PLACE NOT TO EXCEED CONTROL/CONTRACTION CONSTRUCTION JOINT NOT TO SCALE CENTER LINE CLR ON CENTER CMU CONCRETE MASONRY UNIT **OUTSIDE DIAMETER** COL COLUMN OF / OSF OUTSIDE FACE CONC CONCRETE OPPOSITE HAND CONN CONNECTION OPNG OPENING CONT CONTINUOUS OPPOSITE CONTR CONTRACTOR OWWJ OPEN WEB WOOD JOIST COORD COORDINATE CTR / CNTR CENTER POWER DRIVEN ANCHOR PERP PERPENDICULAR PENNY (NAILS) PANEL JOINT DEFORMED BAR ANCHOR PLATE DOUBLE PARALLAM BEAM DEMAND CRITICAL WELD PLYWD / PLY PLYWOOD DET / DTL DETAIL DOUGLAS FIR/LARCH POUR STRIP DIA / Ø DIAMETER POUNDS PER SQUARE FOOT DIAPHRAGM DIAPH POUNDS PER SQUARE INCH DIMENSION PARALLEL STRAND LUMBER DEAD LOAD PRESSURE TREATED/POST TENSIONED DRAWING REFERENCE EDGE OF REINFORCING RFINE EACH REQUIRED EACH FACE REVISION **EFFECTIVE** EXTERIOR INSULATION FINISH SYSTEM ELEC / ELECT ELECTRICAL SEISMIC FORCE RESISTING SYSTEM ELEVATION / ELEVATOR SHTG / SHT'G SHEATHING EDGE NAIL(ING) SIMILAR ENGR ENGINEER SLRS SEISMIC LOAD RESISTIVE SYSTEM SHORT LEG VERTICAL EACH SIDE SHEET METAL SCREW **FACH WAY** SLAB ON GRADE EXIST / (E) **EXISTING** SPACE (D)(S) **EXPANSION JOINT** SPEC(S) SPECIFICATION **EXTERIOR** STAGG STAGGERED STANDARD FACE OF STIFFENER STIFF FLAT BAR STEEL FULL HEIGHT STIFFENER STRUCT STRUCTURAL FINISH(ED FLR FLOOR TOP & BOTTOM FOUNDATION FOW FACE OF WALL THICK / THICKNESS FAR SIDE THROUGH FEET / FOOT TOTAL LOAD FOOTING TOE NAIL TRANS TRANSVERSE GAUGE TRANSV TUBE STEEL GALV GALVANIZED GLULAM TYPICAL GLULAM BEAM UNLESS OTHERWISE NOTED UON / UNO HCM HOLLOW CLAY MASONRY VERT VERTICAL HDR HEADER VERIFY IN FIELD HGR HANGER HORIZ HORIZONTAL VRFY VERIFY HVAC HEATING, VENTILATION AND AIR CONDITIONING WITH HEADED WELD STUD WITHOUT WOOD INTERNATIONAL BUILDING CODE WIDE FLANGE BEAM INSIDE DIAMETER WORK POINT IF / ISF INSIDE FACE WELDED WIRE FABRIC

STRUCTURAL DEFERRED SUBMITTALS

INSPECTION / INSPECTOR

INFORMATION

INTERIOR

INFO

CONTRACTOR TO SUBMIT DRAWINGS & CALCULATIONS BEARING THE SEAL OF A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF THE PROJECT TO ARCHITECTURE / ENGINEER BEFORE SUBMITTING

TO JURISDICTION FOR REVIEW & PERMITTING ANCHORAGE FOR AND ATTACHMENT OF M/E/P/F SYSTEMS & EQUIPMENT TO STRUCTURE 2. OPEN WEB METAL JOISTS & GIRDERS

STRUCTURAL OBSERVATIONS

3. DESIGN-BUILD STAIRS AND GUARDRAILS

IN ACCORDANCE W/ IBC CH 17 & AT THE DIRECTION OF THE ENGINEER OF RECORD. THE FOLLOWING ITEMS REQUIRE PERIODIC STRUCTURAL OBSERVATION. NOTIFY ENGINEER OF RECORD AT LEAST 48 HOURS BEFORE A DESIGNATED WORK IS TO BE COVERED

ITEM	DESCRIPTION
1. FOUNDATION	REINFORCING STEEL
2. WOOD DIAPHRAGMS	NAILING & STRAPPING OF WOOD DIAPHRAGM
3. TILT PANELS	REINFORCING STEEL & EMBED PLACEMENT

503.224.9560 Vancouver, WA

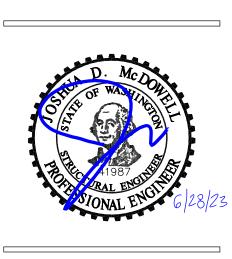
360.695.7879 Seattle, WA 206.749.9993 www.mcknze.com

CREF3 PUYALLUP

OWNER LLC 11611 SAN VICENTE BLVD. 10TH FLOOR LOS ANGELES, CA 90049

240 15TH ST SE **PUYALLUP, WA 98372**

Mechanical/Electrical



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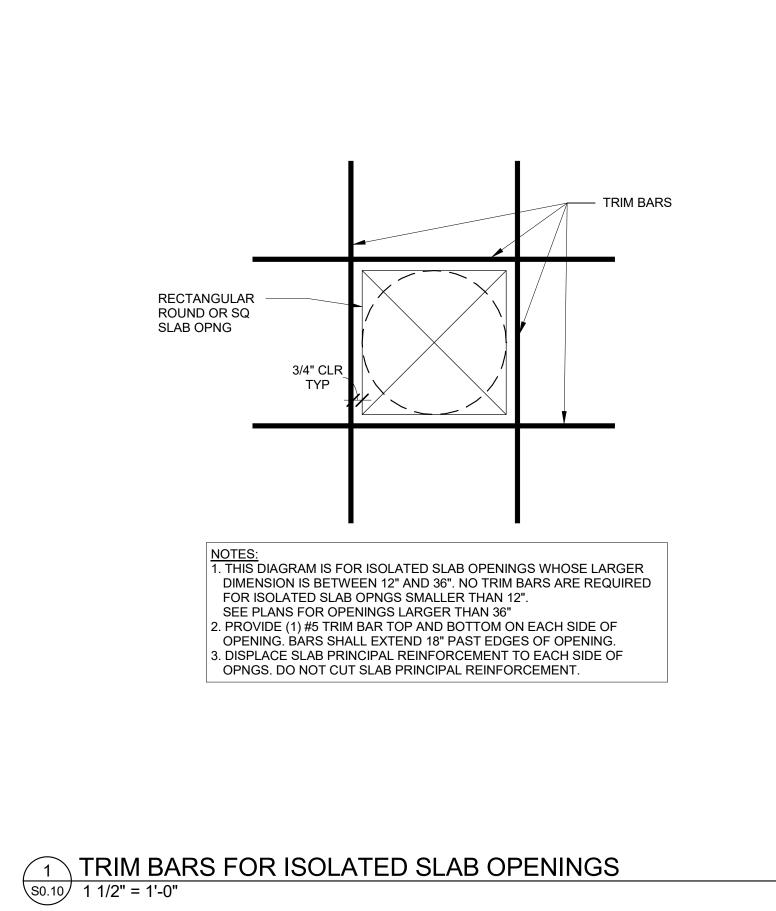
MACKENZIE

STRUCTURAL GENERAL

SHEET

90% CONSTRUCTION DOCUMENT 6/14/23

Autodesk Docs://Fortress-Puyallup/290-Fortress-Puyallup-V23-A.rvt 6/27/2023 5:28:30 PM 12" = 1'-0"



SUBPURLIN PER PLAN

8'-0"

NOTES: 1. SLOPE TO BE 1 VERT (MAX) TO 2 HORIZ UNO

- REINF SAME SIZE & SPACING AS FTG REINFORCEMENT

16 TYPICAL STEP IN WALL FOOTING

S0.10 1 1/2" = 1'-0"

2.LOCATE STEPS AS REQUIRED

3 OPENING IN WOOD ROOF
S0.10 1/2" = 1'-0"

/ JOIST PER PLAN

200lb MAX UNIT OR

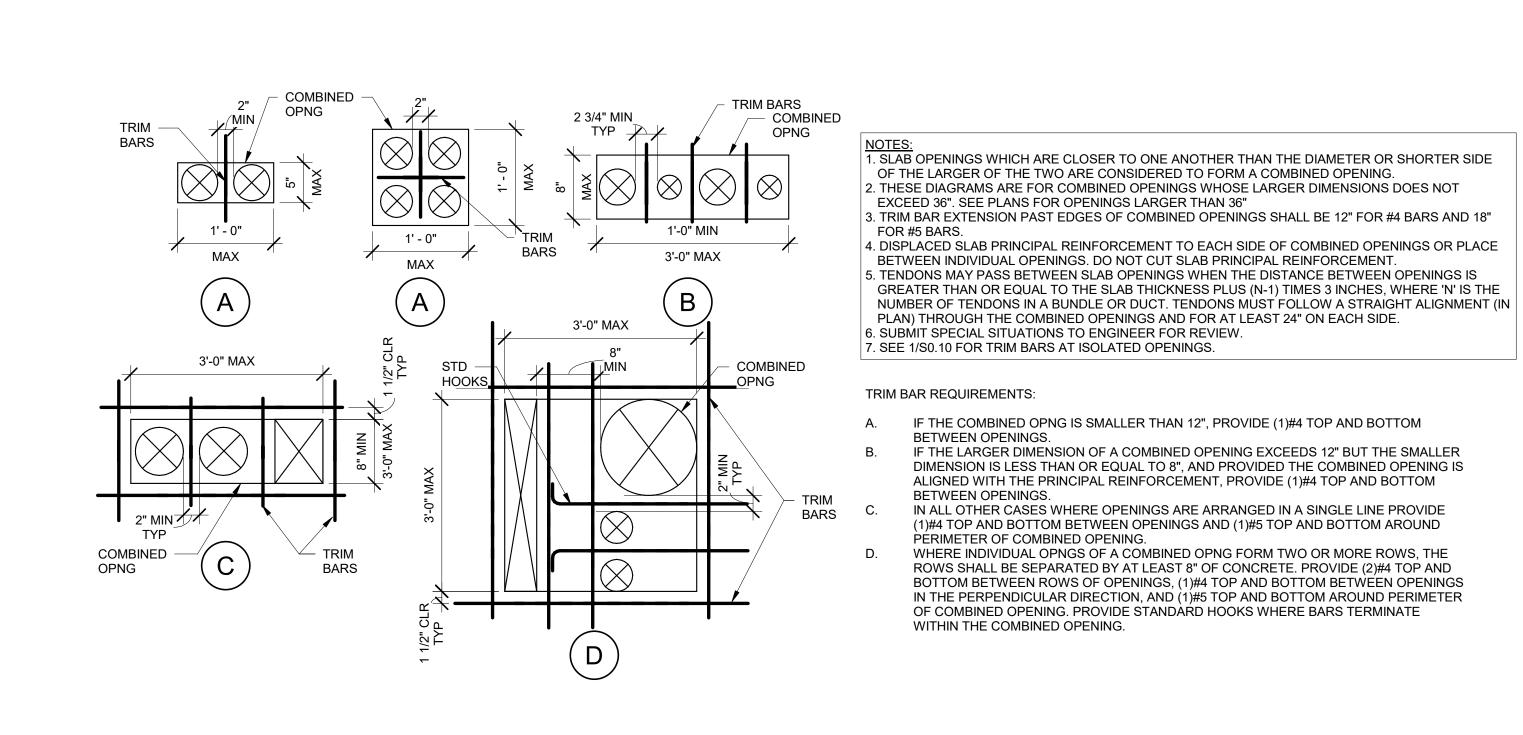
- JOIST PER PLAN

DBL 3x6 SUBPURLIN TYP

AT EDGE OF OPENING W/

SIMPSON DBL F HANGER.

SKYLIGHT





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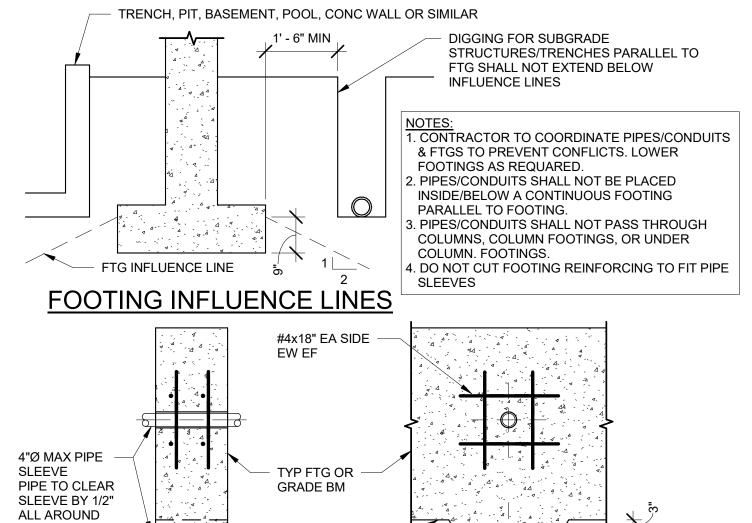
www.mcknze.com MACKENZIE. DESIGN DRIVEN | CLIENT FOCUSED

CREF3 PUYALLUP **OWNER LLC** 11611 SAN VICENTE BLVD. **10TH FLOOR** LOS ANGELES, CA 90049

240 15TH ST SE

Mechanical/Electrical

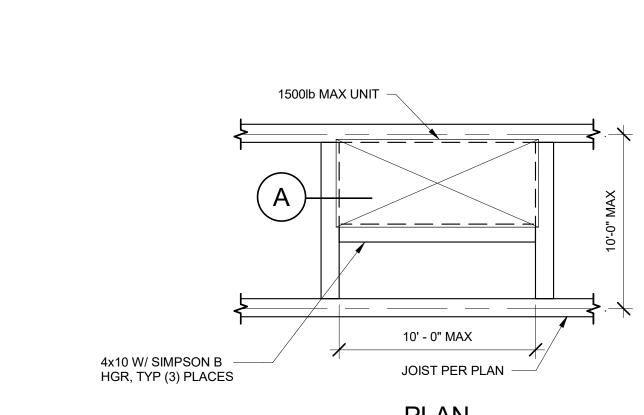
PUYALLUP, WA 98372





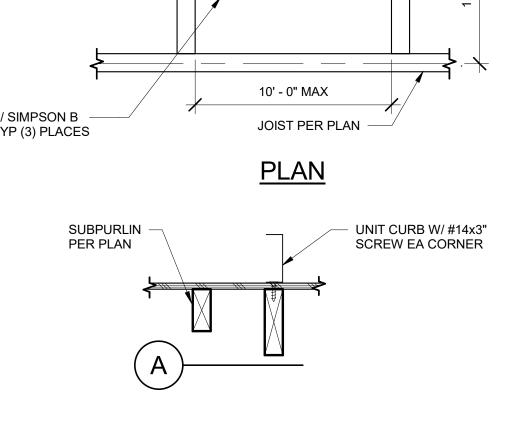
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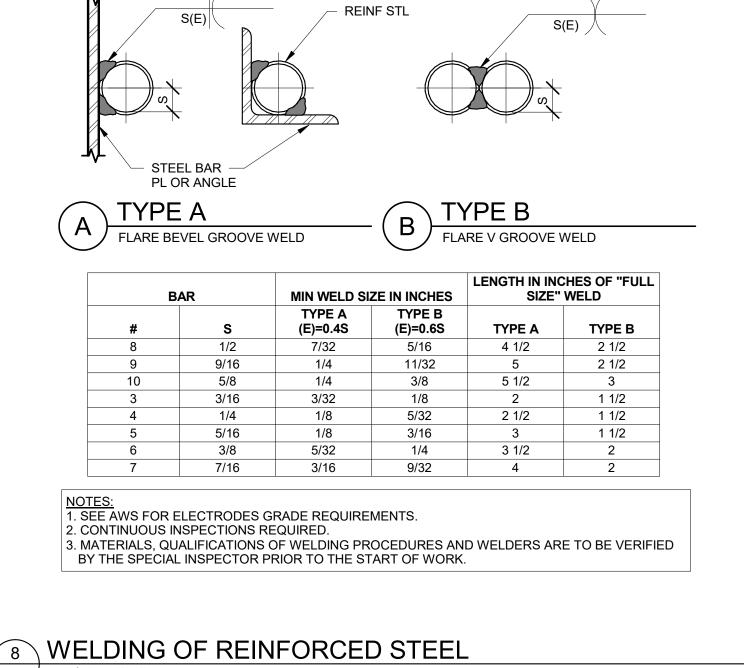
SAME WIDTH AS FTG

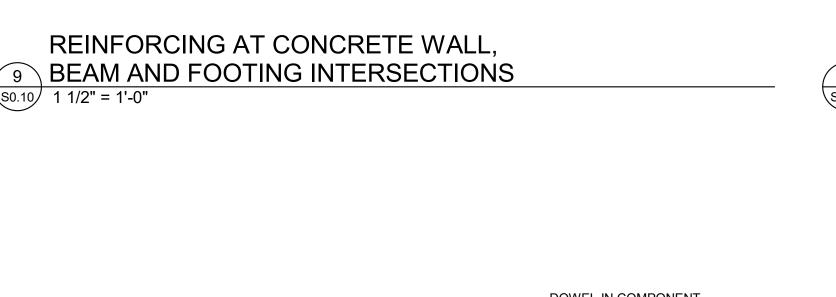


MECHANICAL UNIT SUPPORT (WOOD ROOF)

TRIM BARS FOR MULTIPLE SLAB OPENINGS







TWO LAYERS REINFORCEMENT

— STD HOOK

4 EXTRA TYP VERT

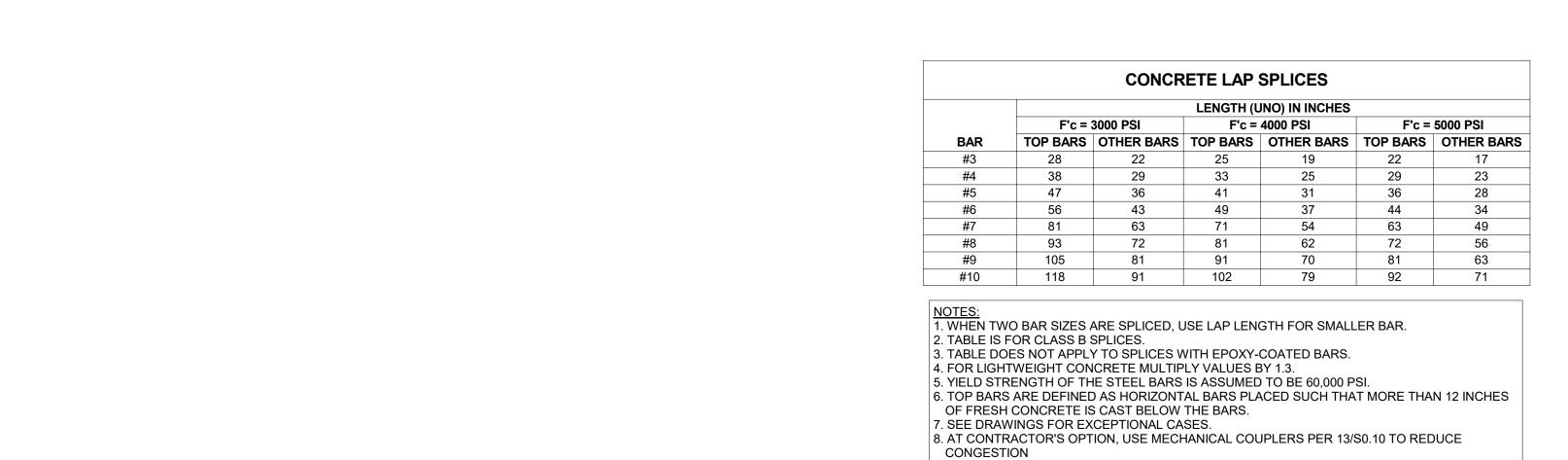
BARS (AT WALLS)

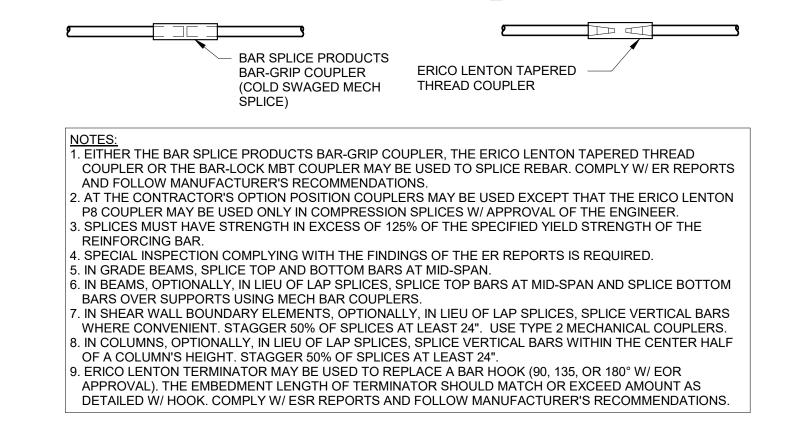
ONE LAYER REINFORCEMENT

BARS (AT WALLS)

<u>OPTIONS</u>







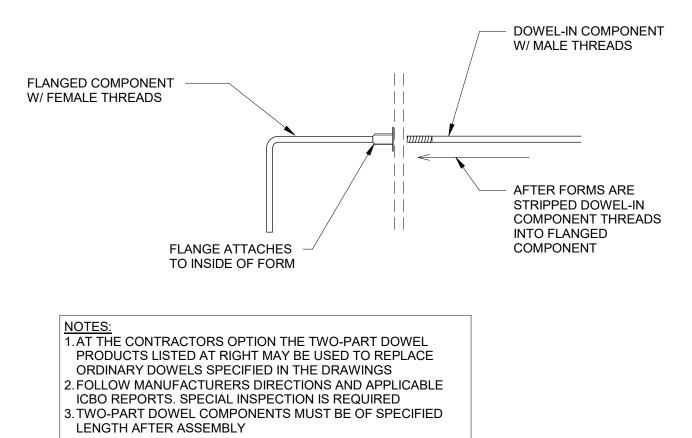
BAR-LOCK MBT

MECH COUPLER

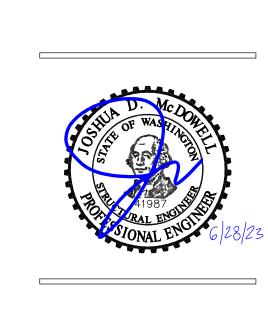
- ERICO LENTON TERMINATOR

MECH ANCHOR

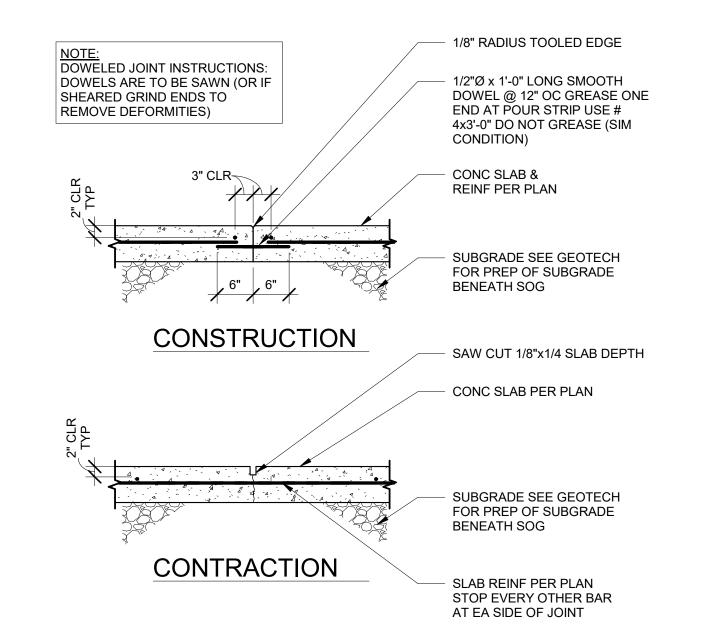
COL ERECTION



	#	‡ 4	#	‡ 5		#6
MANUFACTURER & BRAND NAME	DOWEL-IN COMPONENT					
RICHMOND DOWEL BAR SUBSTITUTION	#4	#4	#5	#5	#6	#6
LENTON FORM SAVER	#4	#4	#5	#5	#6	#6
DAYTON-SUPERIOR D-50 DOWEL BAR REPLACEMENT	#4	#4	#5	#5	#6	#6

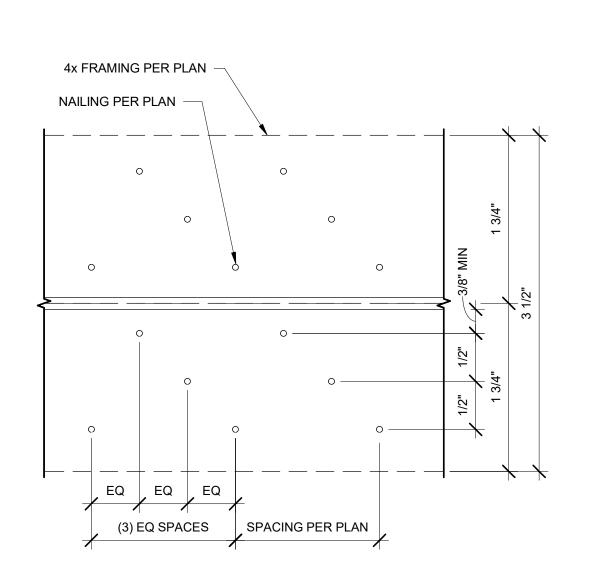


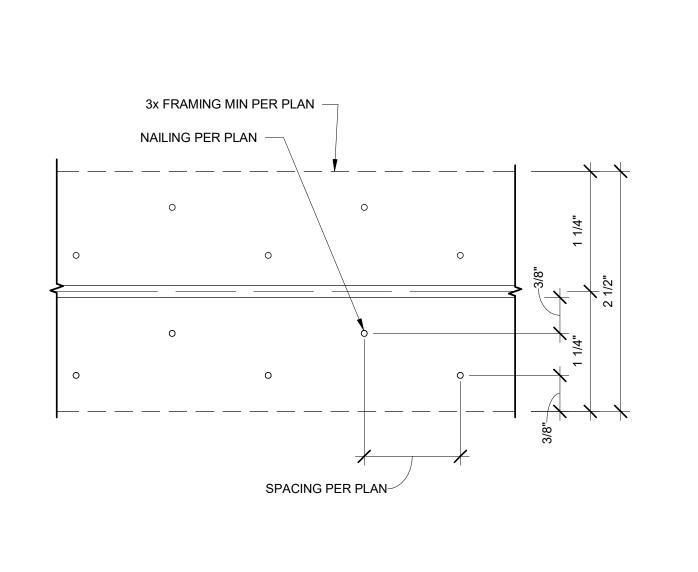
12 TYPICAL LAP SPLICE - CONCRETE

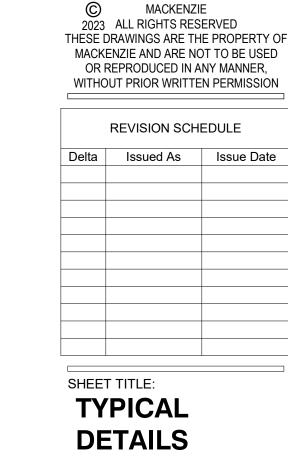


3	
Total Contraction of the Contrac	
BP & AB PER DETAILS	
COL BLOCKOUT FILL W/ CONC AFTER	

13 MECHANICAL REBAR COUPLERS & ANCHORS







(17) CONTRACTION/CONSTRUCTION JOINTS

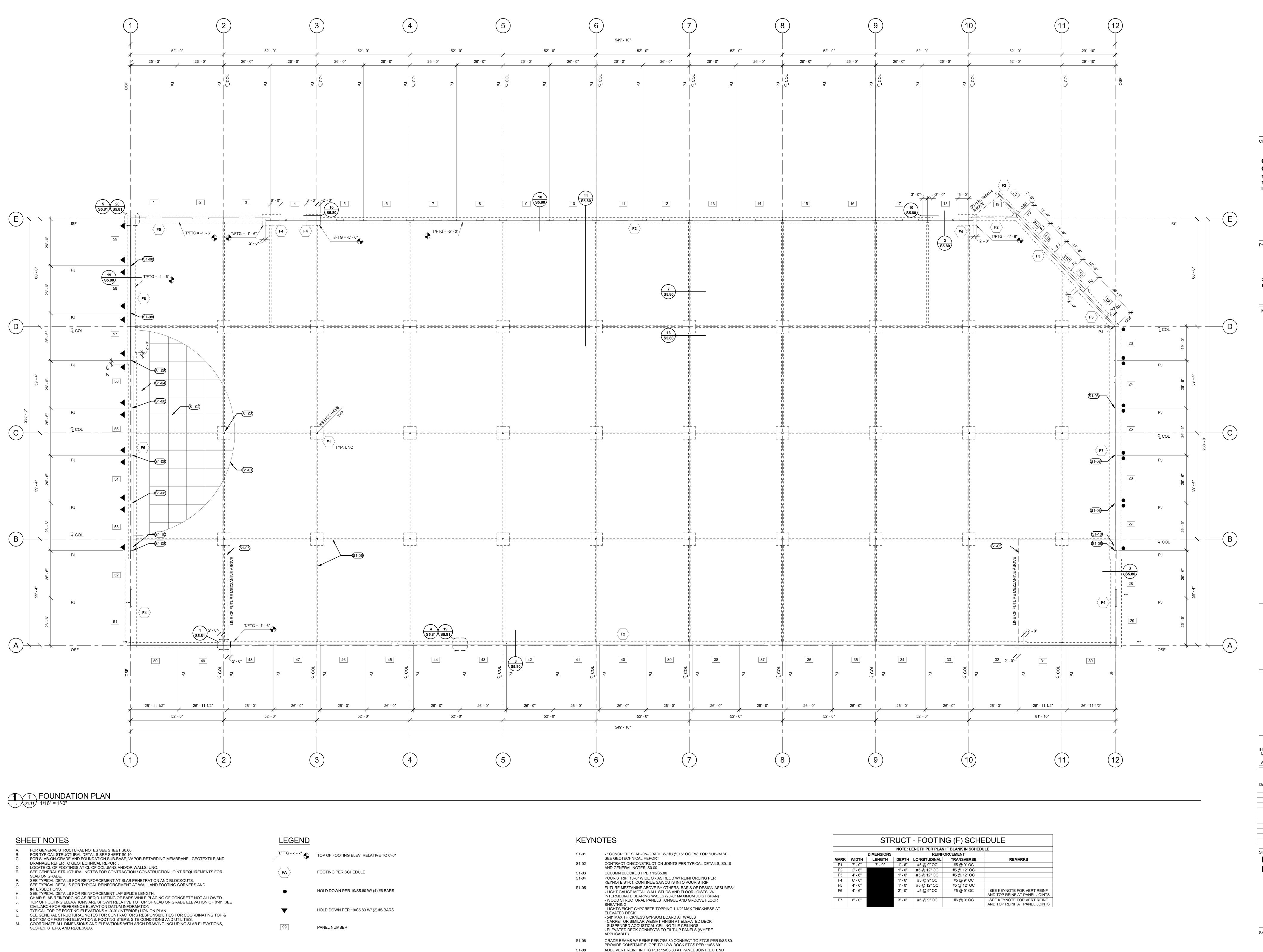
18 DIAMOND BLOCKOUT AT COL

19 HEAVY STAGGERED NAILING

14\ TWO PART DOWEL SYSTEM

20 STAGGERED NAILING

SHEET **S0.10**



VERT REINF FOR 4'-0" FROM PANEL JOINT EA SIDE. TOP REINF TO MATCH BOTT REINF, EXTEND FOR 5'-0" FROM PANEL JOINT EA SIDE. FUTURE DRAG MEMBER REQD TO TRANSFER FUTURE MEZZANINE

SEISMIC LOAD INTO ADJACENT SOLID PANEL

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Project

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D. McDonner of Walth Control of Walth Co

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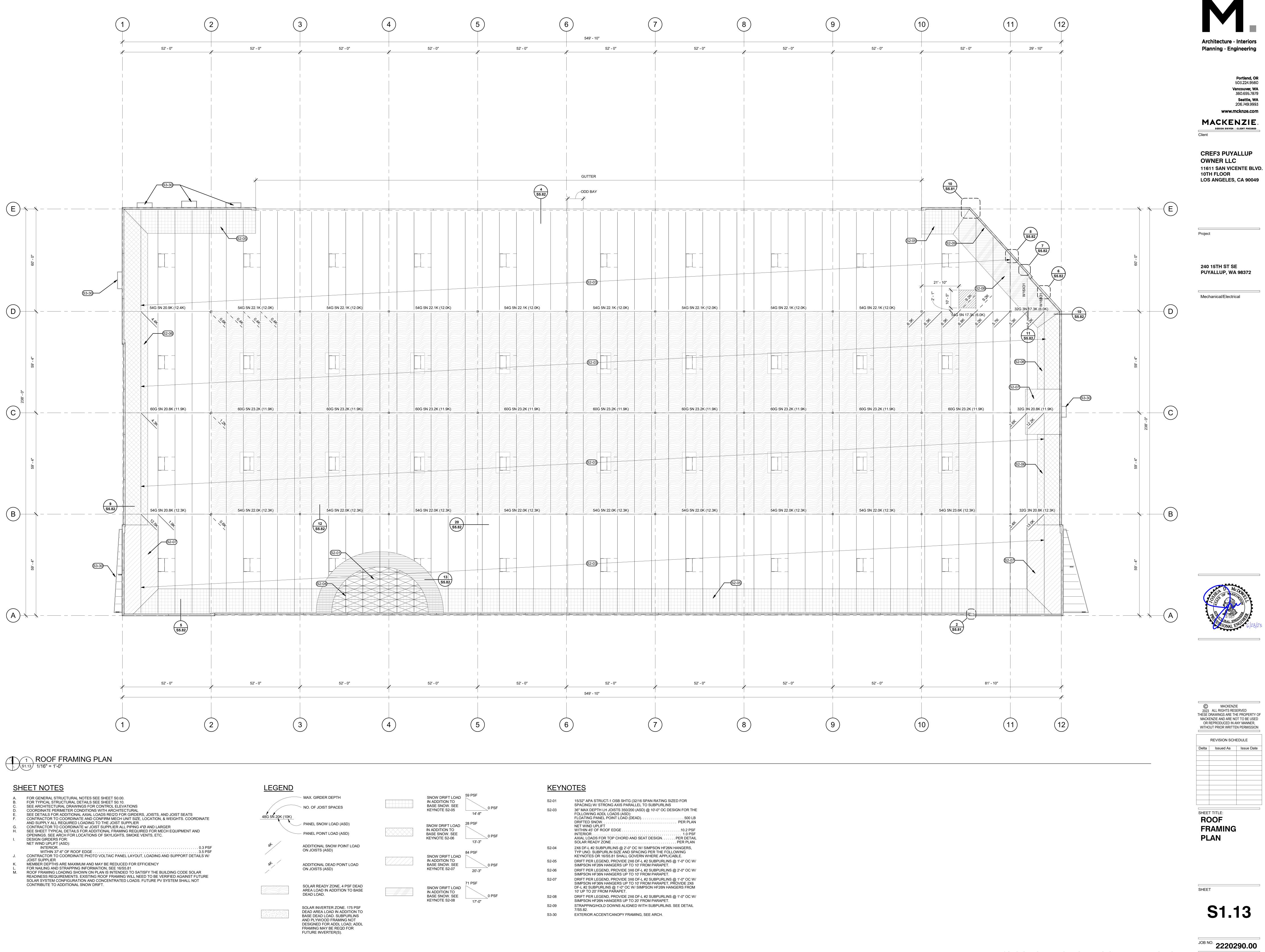
SHEET TITLE:
FOUNDATION
PLAN

SHEET

C1 1

O 1.1.1

JOB NO. **2220290.00**



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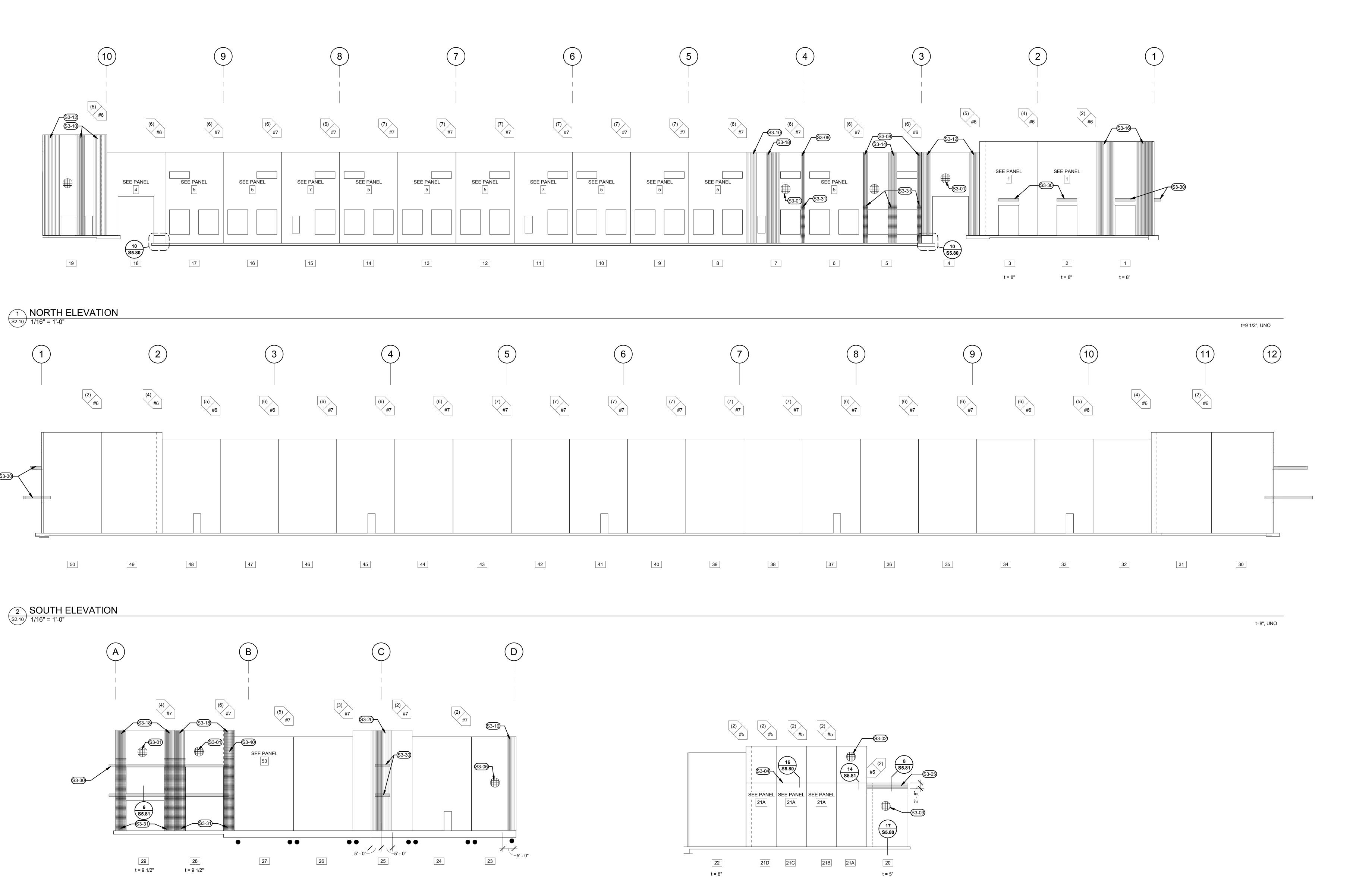
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SHEET TITLE: **FRAMING**



t=8 3/4", UNO

TYPICAL SHEET NOTES

- A. FOR GENERAL STRUCTURAL NOTES SEE S0.00 SERIES SHEETS
 B. FOR TYPICAL STRUCTURAL DETAILS SEE S0.10 SERIES SHEETS
- SHEETS
 C. SEE ARCHITECTURAL DRAWINGS FOR CONTROL ELEVATIONS

LEGEND

99 PANEL NUMBER

CHORD BARS, REF. 15/S5.81 AND 2/S5.81
WHERE APPLICABLE

SIZE OF REINF.

HOLD DOWN PER 19/S5.80 W/ (4) #6 BARS

t = PANEL THICKNESS

KEYNOTES

@ 9"OC CL EW
WERT BARS @ 6" OC EF & ## HORIZ BARS @ 12"
OC CL. PROVIDE ## HORIZ BARS @ 12" OC EF AT THICKENED PORTION OF PANEL
HORIZ BARS @ 12" OC CL
HORIZ BARS @ 10" OC EF ((5) TOTAL MIN EF)
HORIZ REINF @ 6" OC EF ((5) TOTAL MIN EF)
HORIZ REINF @ 6" OC EF & ### HORIZ @ 12" OC EF
HORIZ BARS EF, EQ SPACED IN LEG
LOC EF & #### BARS EF, EQ SPACED IN LEG
LOC EF & #### BARS EF, EQ SPACED IN LEG
LOC EF & #### LOC EF & #### LOC EF
LOC EF & #### LOC EF & #### LOC EF
LOC EF & #### LOC EF & #### LOC EF
LOC EF & #### LOC EF & #### LOC EF
LOC EF & ##### LOC EF & #### LOC EF &

(14) #5 VERT BARS EF, EQ SPACED IN LEG

(16) #5 VERT BARS EF, EQ SPACED IN LEG
(18) #5 VERT BARS EF, EQ SPACED IN LEG
(20) #5 VERT BARS EF, EQ SPACED IN LEG
EXTERIOR ACCENT/CANOPY FRAMING, SEE ARCH.
#3 HOOPS @ 6" OC SEE 9/S5.81 FOR EXTENT
#3 HOOPS AT THICKENED PANEL LEG PER 1/S5.81

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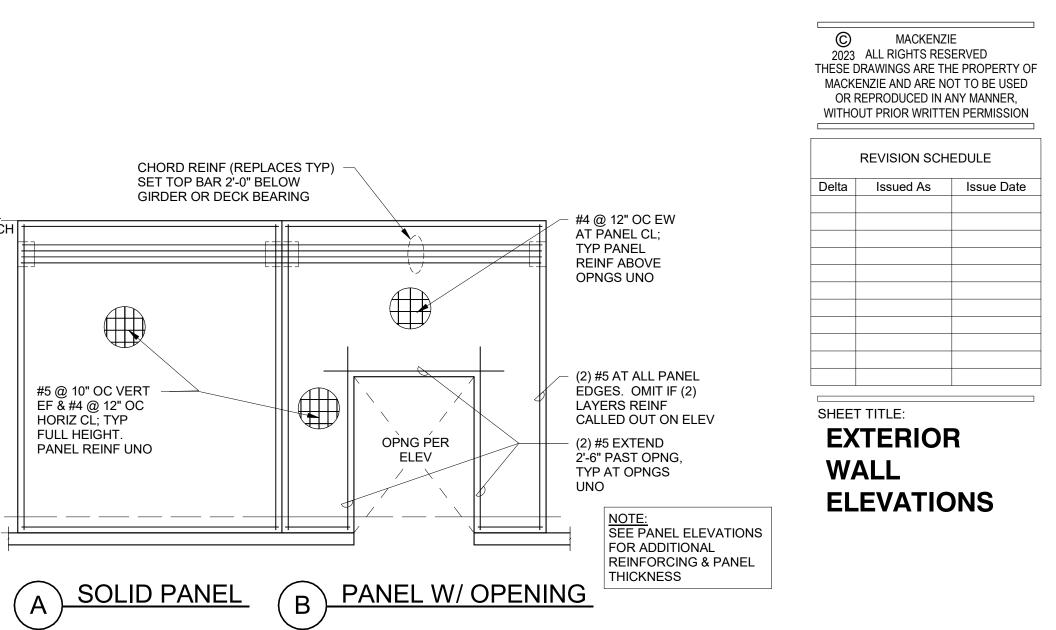
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10TH FLOOR

BOWLE MAN TO THE STATE OF WASHING BY A 1987 ALL ENGINE 6 28 23

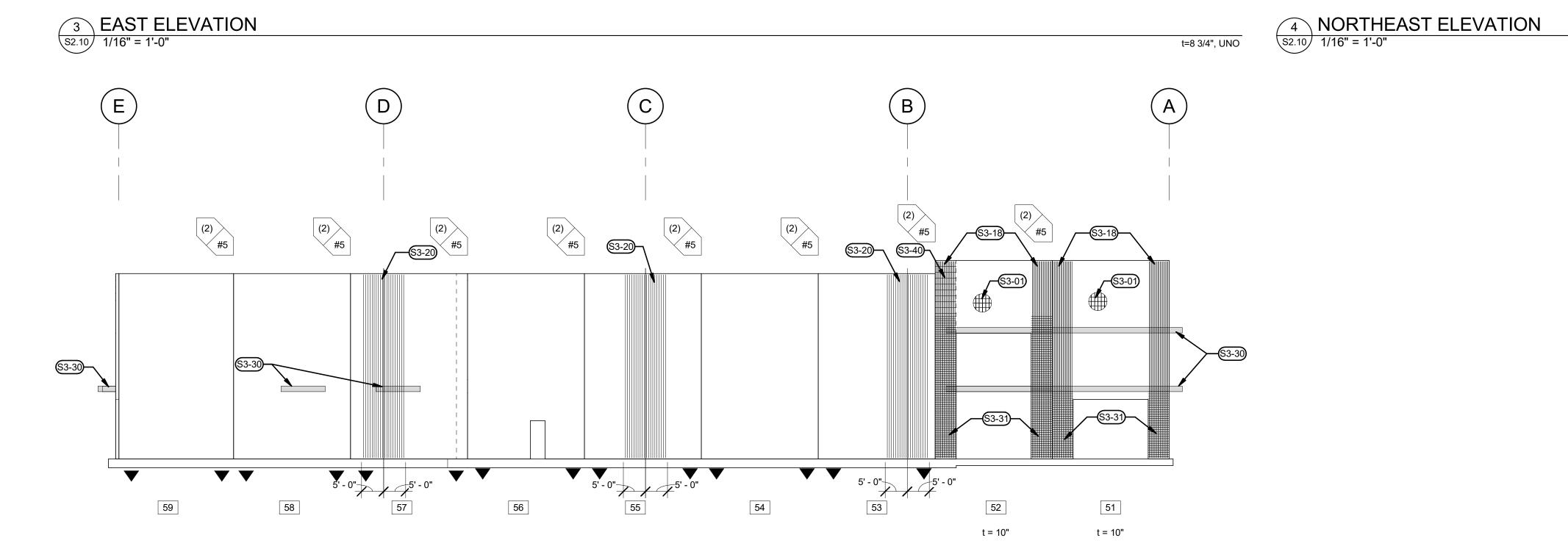


7 TYPICAL PANEL REINFORCING
S2.10 1/8" = 1'-0"

S2.10

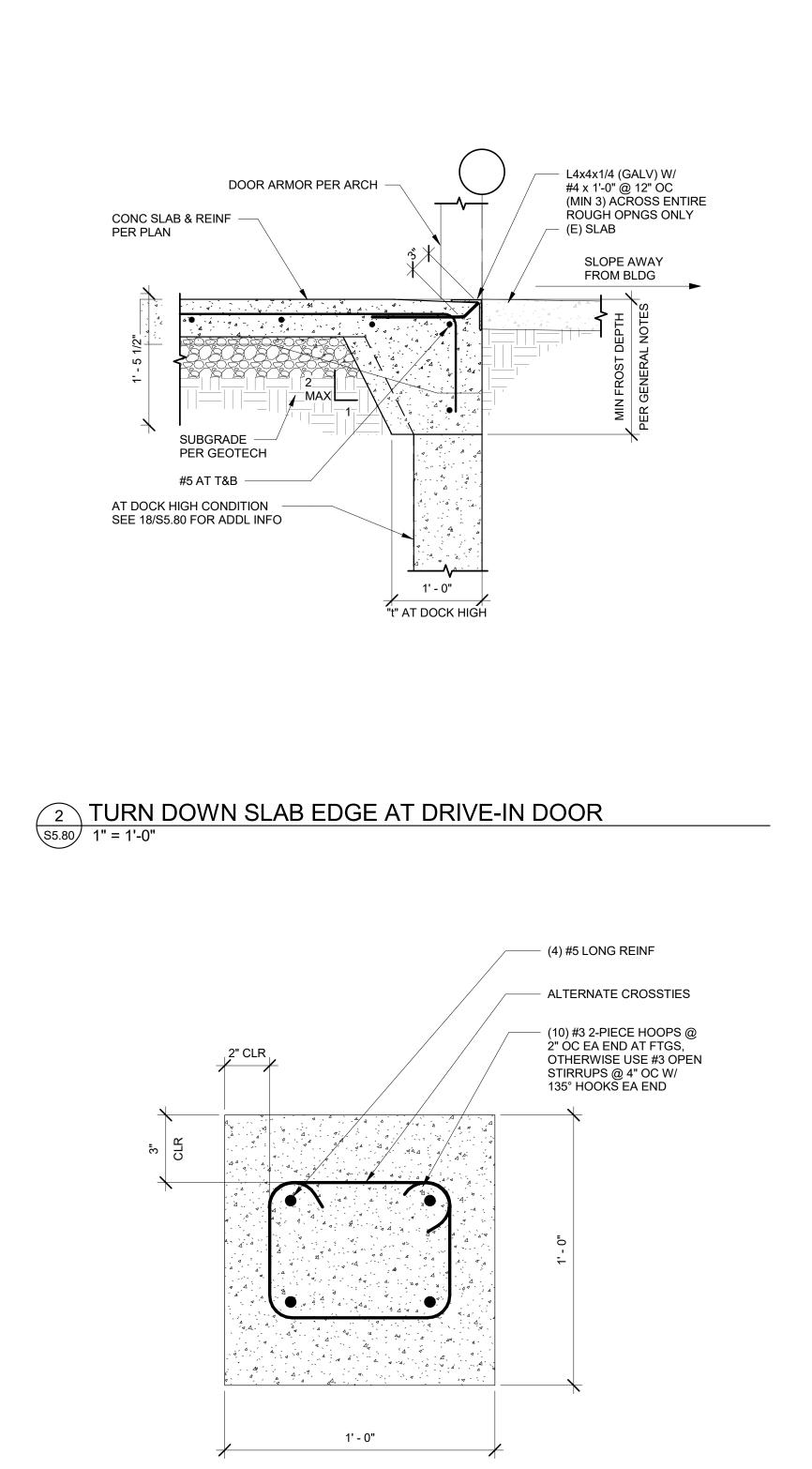
SHEET

JMENT 6/14/23



5 WEST ELEVATION S2.10 1/16" = 1'-0"

t=9", UNO



7 FOUNDATION TIES S5.80 3" = 1'-0"

HSS COL PER PLAN

— FTG & REINF -PER PLAN

CONC PANEL PER ELEV

FIN GRADE

CLR PER NOTES

CONC PANEL —— REINF PER ELEV

- HSS COL PER PLAN

- CONCRETE PANEL

SLAB PER PLAN.
THICKENED FOOTING

— GB & REINF PER 7/S5.80

AS OCCURS

CONT FTG PER PLAN

PER ELEVATION

REINF PER 7/S5.80

- HOOK GRADE BM REINF

AT CONT FTG AS REQD

- STD HOOK AT TOP

CONC PANEL REINF

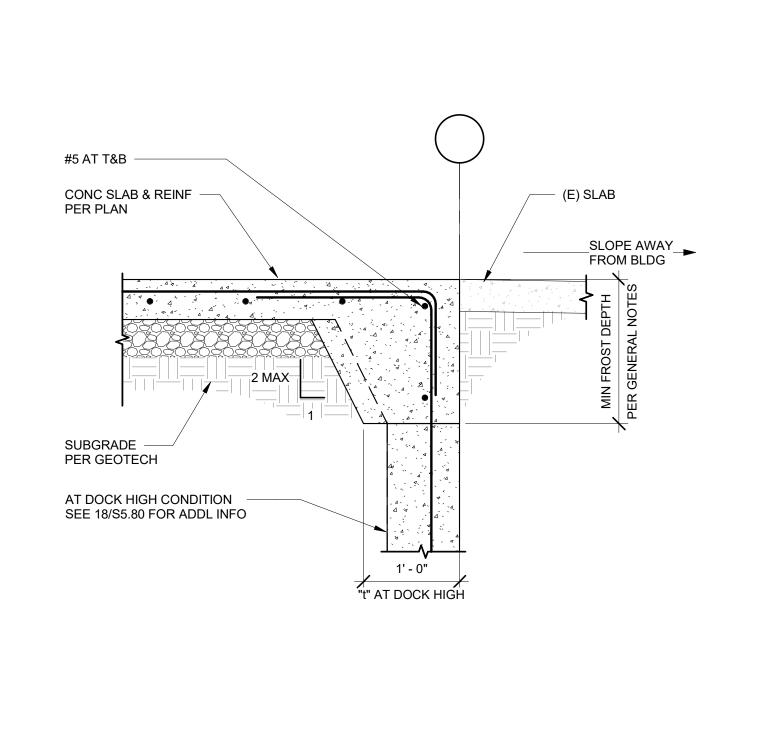
PER ELEV

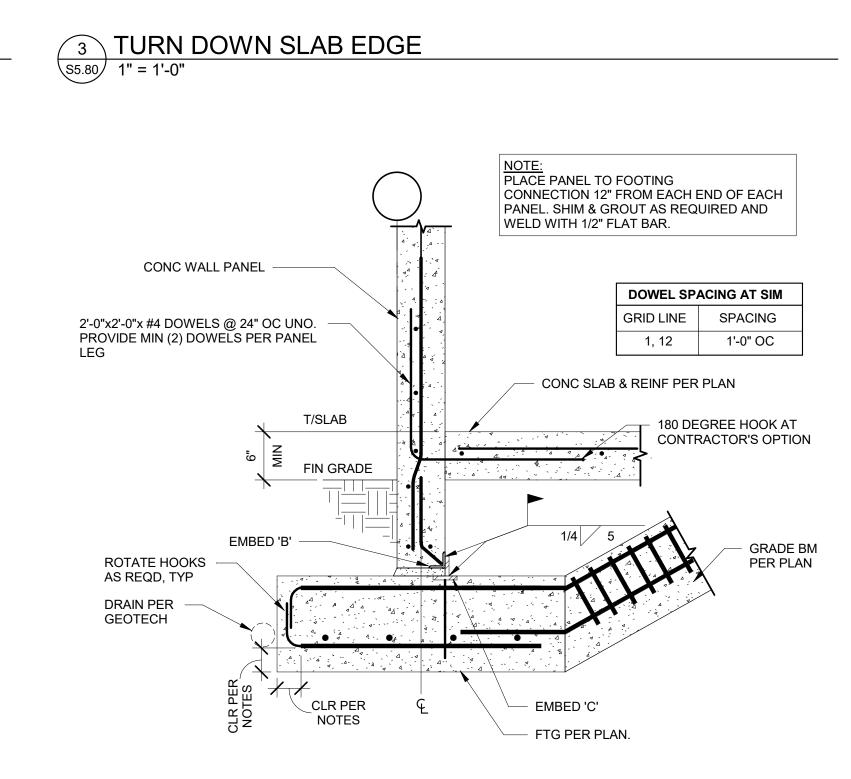
PANEL STEP PER ELEV

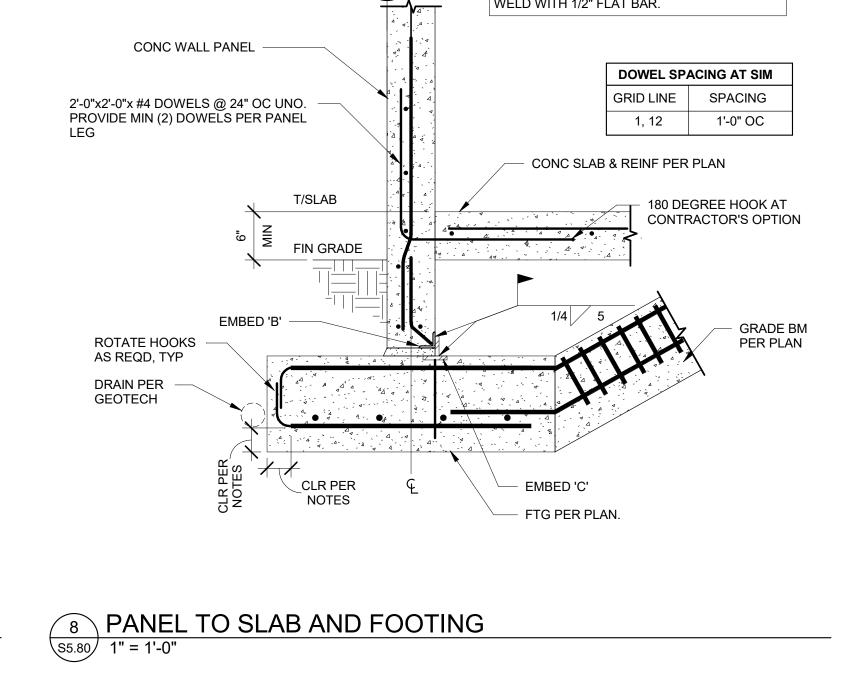
FINISH FLOOR

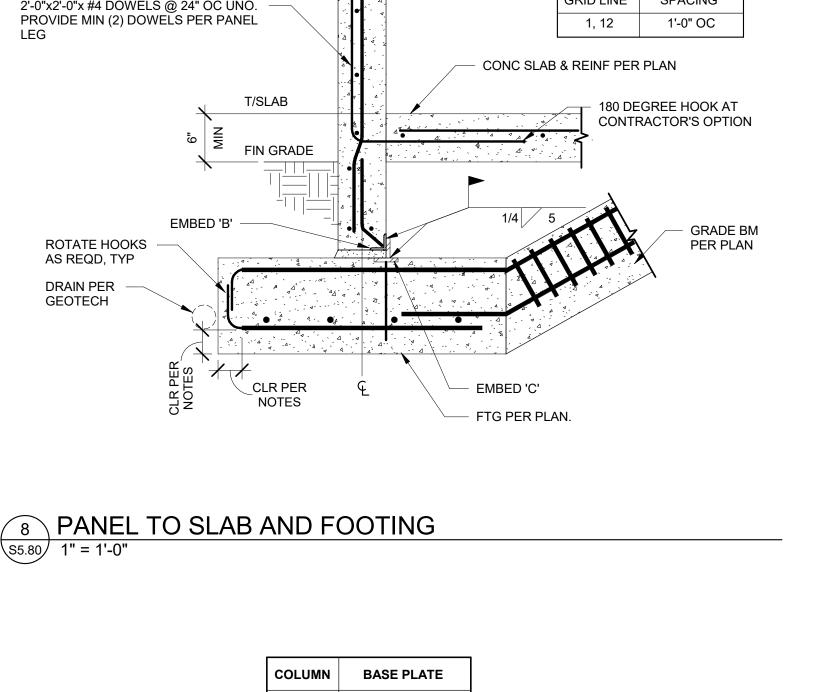
GRADE BEAM AT DOCK PANEL FOOTING

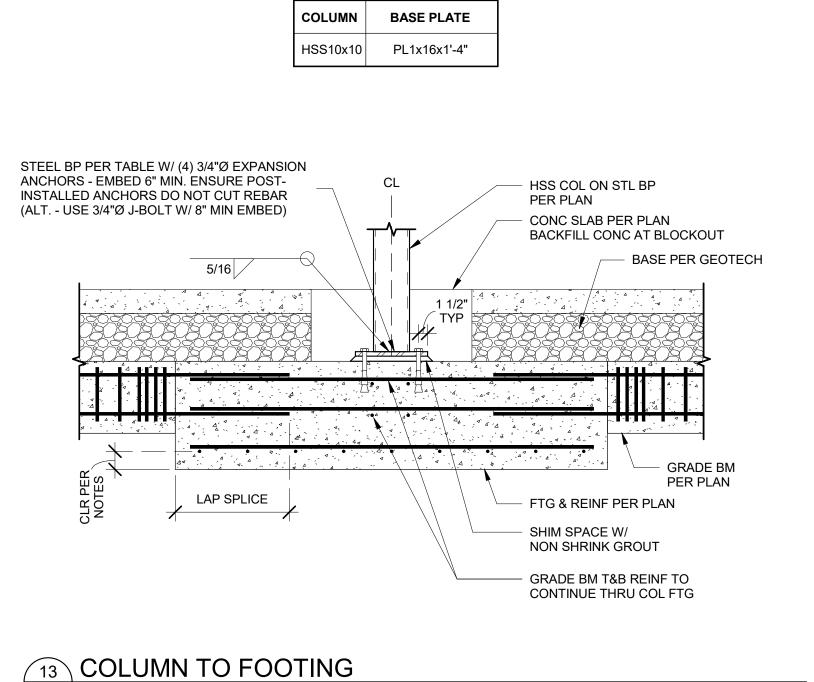
CONC PANEL PER ELEV











DOOR ARMOR PER ARCH

SLAB REINF PER PLAN

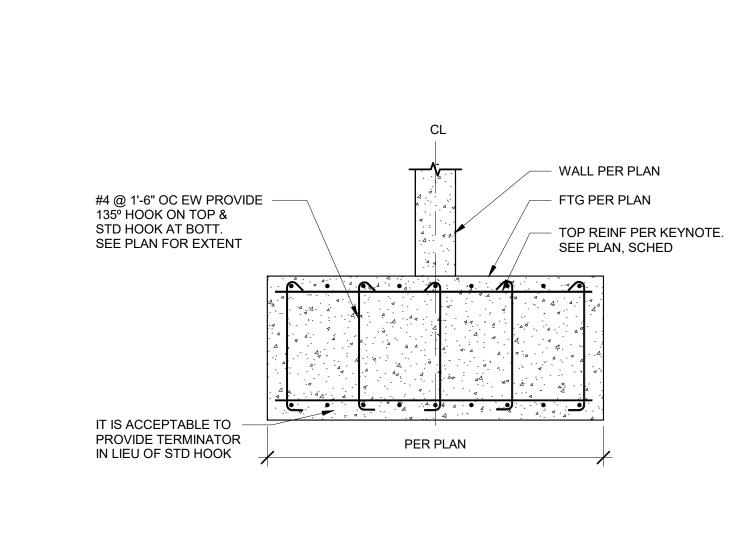
SUBGRADE PER

GEOTECH

FTG PER PLAN

- #4 @ 24" OC <u>2'-0"</u>

PANEL PER ELEV



15 VERTICAL REINF AT PANEL JOINT

4' - 0"

NOTE: SEE 7/S5.81 FOR EMBEDS

10 PLINTH DETAIL \$5.80 3/4" = 1'-0"

EMBED 'B' AT INSIDE

TOP OF PLINTH TO MATCH ADJACENT FTGS

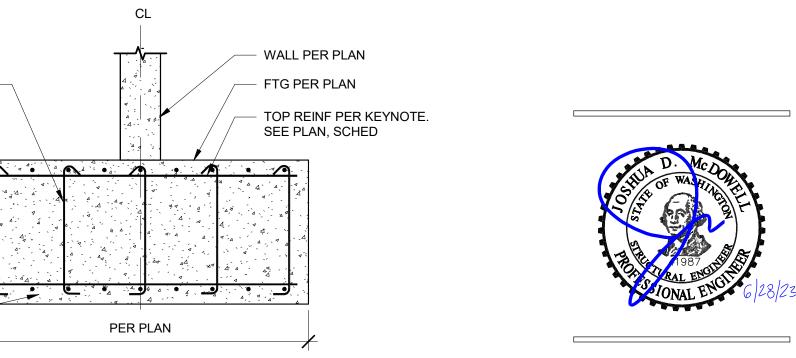
12" THICK PLINTH

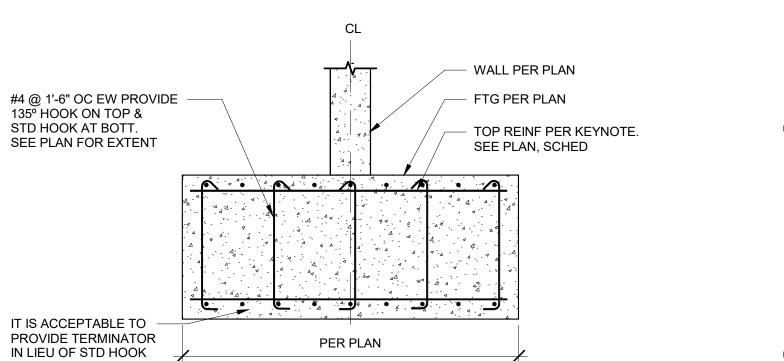
#5 @ 12" OC HORIZ AT EF OF WALL

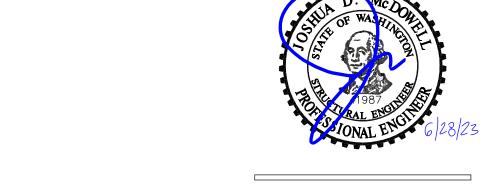
- (5) #5 VERT AT ÈÉ OF WALL

FTG PER PLAN

STD HOOK INTO FTG







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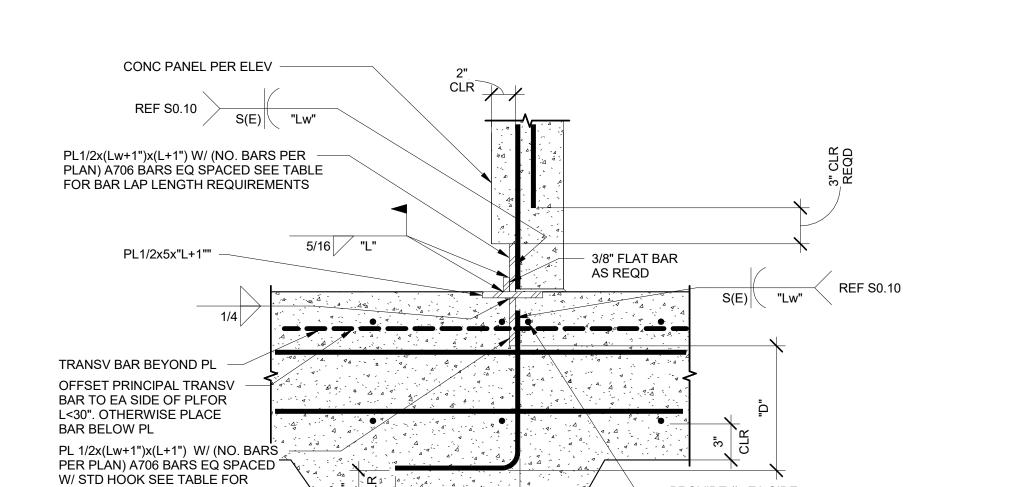
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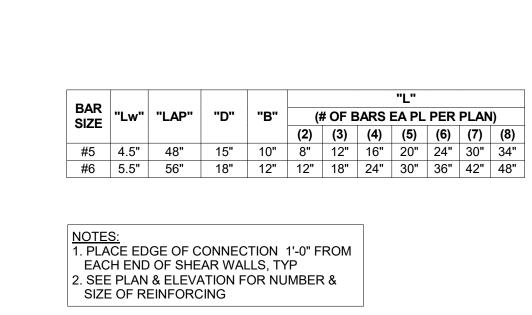
10TH FLOOR



PROVIDE #5 EA SIDE OF EMBED EXTEND

1'-6" PAST EMBED

FTG & REINF PER PLAN



				(2)	(3)	(4)	(5)	(6)	(7)	(8)
	48"	15"	10"	8"	12"	16"	20"	24"	30"	34"
	56"	18"	12"	12"	18"	24"	30"	36"	42"	48"
						7				
D	GE OF C OF SHE & ELEVA	AR WAL	LS, TY	Έ						
	EINFORC		OIVINO	IVIDEI	·α					
_						_				

HEET TITLE: FOUNDATION DETAILS

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REVISION SCHEDULE

S5.80

SHEET

HOOKED BAR LENGTH

POTHOLE FTG AS REQD

AT HOLDOWN BARS

REQUIREMENTS

BLADE WALL STEP AT SOLID PANEL

| S5.80 | 1" = 1'-0"

17 BLADE WALL FOOTING

- EMBED 'B' @ 5'-0" OC

- EMBED 'C' @ 5'-0" OC

- FTG AND REINF PER PLAN

18 DOCK HIGH DOOR S5.80 1" = 1'-0"

DRAIN PER GEOTECH

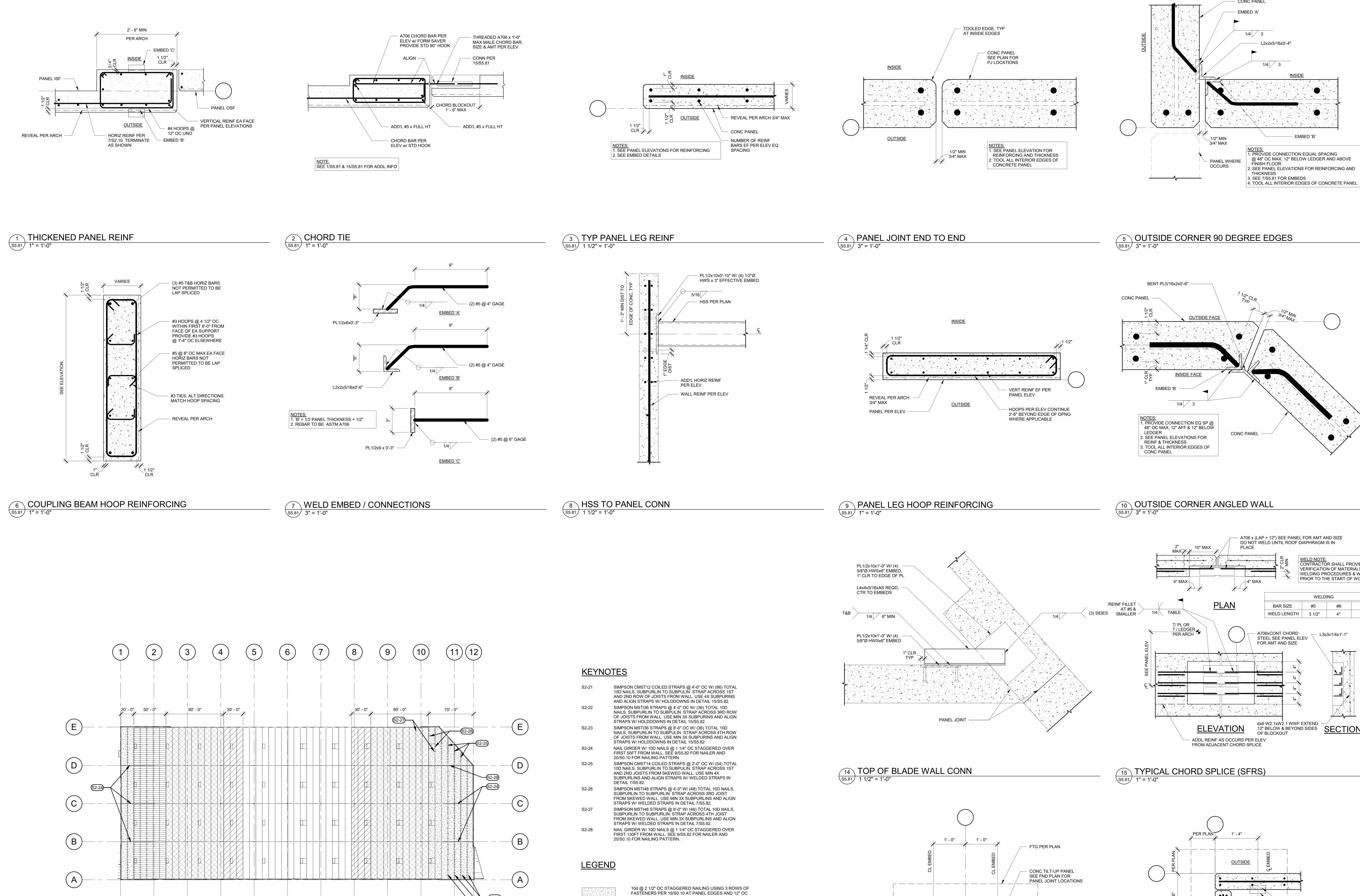
PANEL TO FTG —— CONN PER 8/S5.80

C12x20.7 (GALV) x FULL WIDTH — W/ 1/2" Øx8" HWS @ 12" OC (STAGG) OR 5/8" Ø DBAx1'-0" @ 12" OC

3/4" CHAMFER

SINGLE SIDED HOLDDOWN CONNECTION AT FOOTING (SFRS)

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AT INTERIOR SUPPORTS. USE 4x SUBPURLINS

10d @ 4" OC STAGGERED NAILING USING 3 ROWS OF FASTENERS PER 19/S0.10 AT PANEL EDGES AND 12" OC AT INTERIOR SUPPORTS. USE 4x SUBPURLINS

10d @ 2 1/2" OC NAILING AT PANEL EDGES AND 12" OC AT INTERIOR SUPPORTS. USE 3x MIN SUBPURLINS UNO

10d @ 4" OC NAILING USING AT PANEL EDGES AND 12" OC AT INTERIOR SUPPORTS. USE 2x SUBPURLINS UNO

10d @ 6" OC NAILING AT PANEL EDGES AND 12" OC AT INTERIOR SUPPORTS. USE 2x SUBPURLINS UNO

16 NAILING AND STRAPPING PLAN

S5.81 1" = 50'-0"

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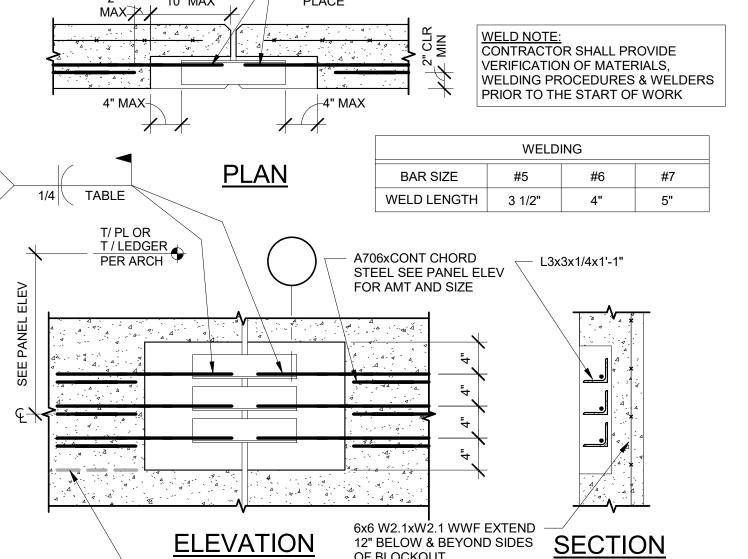
<u>INSIDE</u>

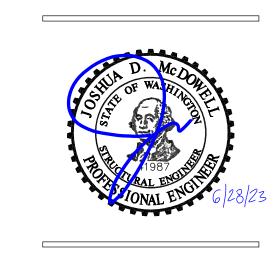
EMBED 'B'

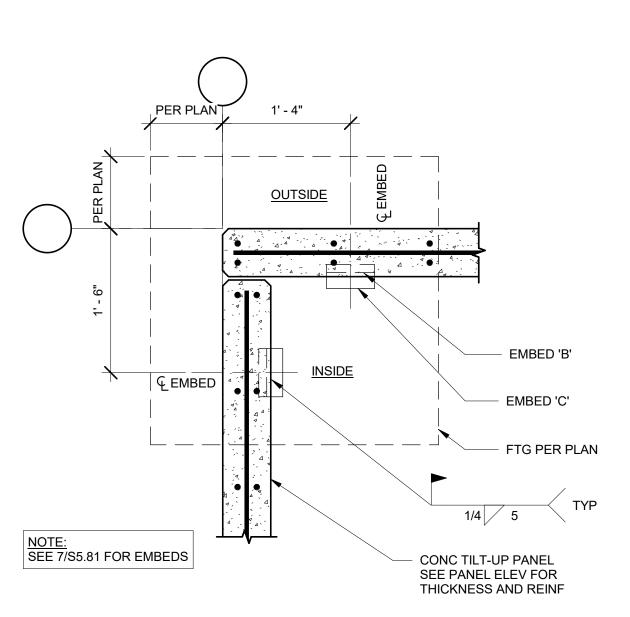
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CL PANEL

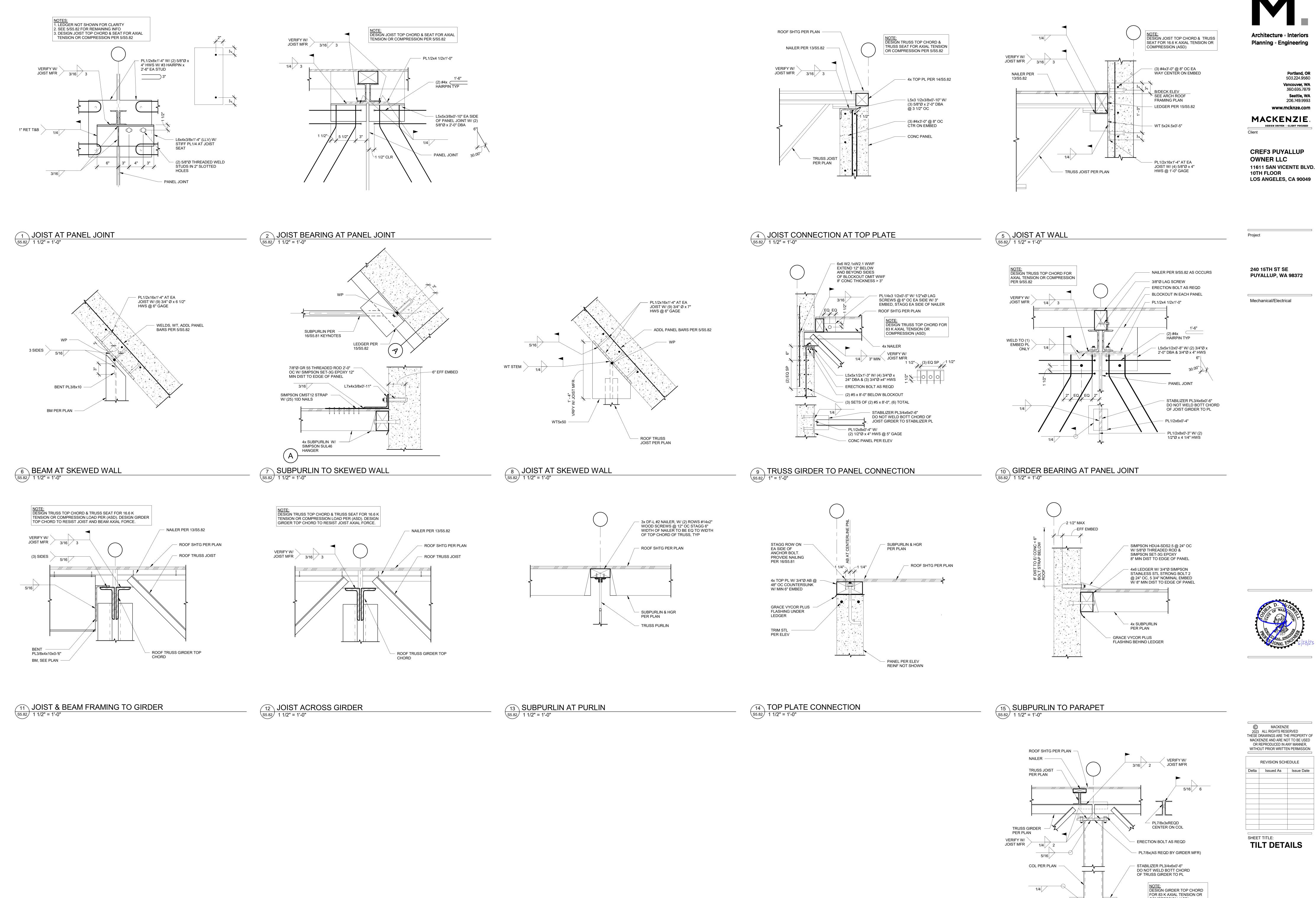
EMBED 'B'

<u>OUTSIDE</u>

NOTE: SEE 7/S5.81 FOR EMBEDS

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SHEET



Planning - Engineering

S5.82

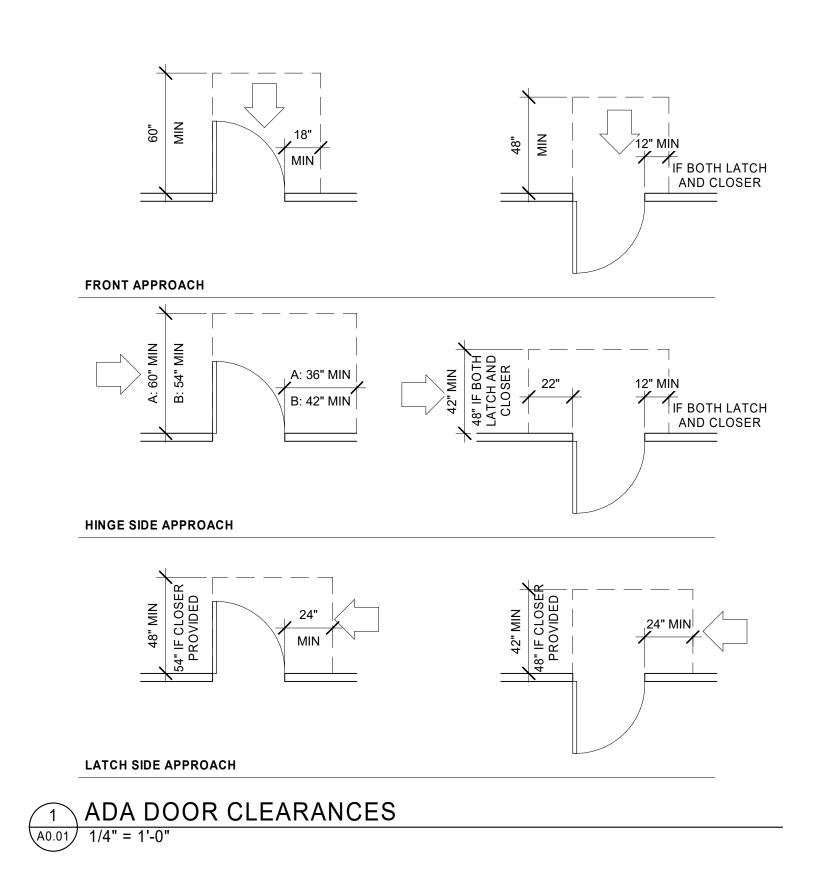
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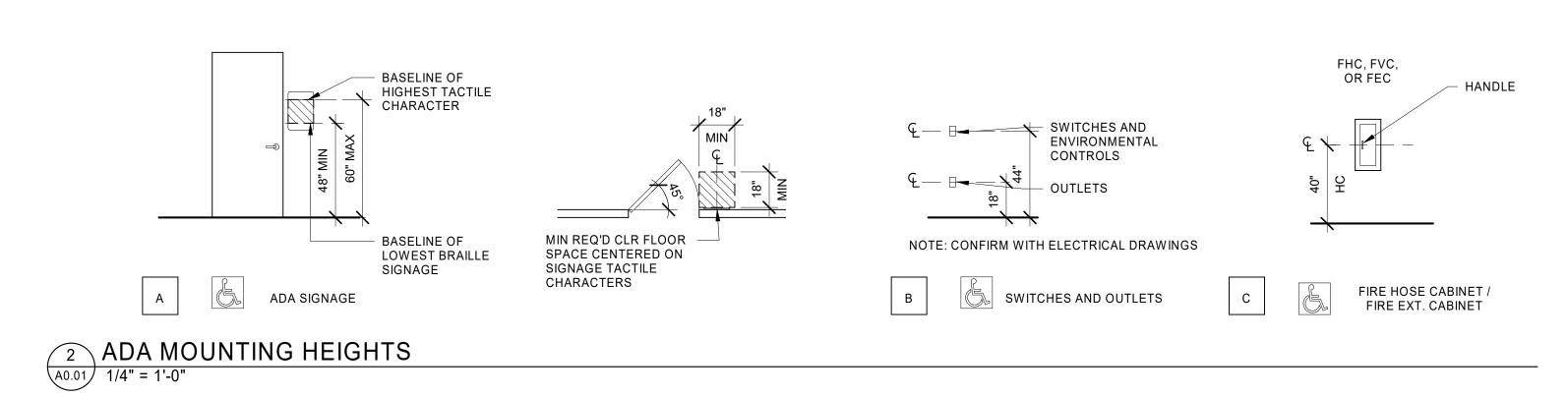
SHEET

COMPRESSION (ASD)

TRUSS GIRDER AT COLUMN

| S5.82 | 1" = 1'-0"





ARCHITECTURAL LEGEND

FLOOR/ROOF PLAN SYMBOLS ANNOTATION SYMBOLS DOWNSPOUT LOCATION \circ DS \circ FD FLOOR DRAIN ELEVATION KEY MARK CLEAN OUT FIRE EXTINGUISHER DOCK HIGH OVERHEAD DOOR PARTIAL/ENLARGED - OPEN ARROW DRIVE IN OVERHEAD DOOR ELEVATION KEY MARK CONTROL JOINT CONSTRUCTION JOINT CONST JT POUR STRIP INTERIOR - FILLED ARROW ELEVATION KEY MARK MISC. SYMBOLS SANITARY SEWER LINE -----SS------SS-----(DESIGN/BUILD PLUMBING) BUILDING SECTION KEY MARK **WALL TYPES** 1HR RATED WALL 2HR RATED WALL - DETAIL# - OPT. NOTE CONCRETE TILT-UP PANEL, SEE STRUCTURAL WALL SECTION KEY MARK OPEN ARROW INSULATED HM DOOR **ROOM NAME →** SPACE NAME ROOM/SPACE IDENTIFICATION

- SPACE#

101

DOOR NUMBER SYMBOL

WINDOW TYPE SYMBOL

ARCHITECTURAL GENERAL NOTES

A. OVERALL FLOOR PLANS ARE INTENDED TO IDENTIFY ENTIRE FLOOR AREA. SEE INDIVIDUAL AREA PLANS FOR SPECIFIC DIMENSIONS, DETAILING, PARTITION TYPES, AND ADDITIONAL INFORMATION.
 B. PROVIDE 32'-0" CLEAR MINIMUM TO BOTTOM OF STRUCTURE BETWEEN GRID A & GRID D, MECHANICAL DUCTS, LIGHTING, SPRINKLERS, ETC.
 C. ALL PARTITIONS TO BE TYPE A UNLESS OTHERWISE NOTED. ROOMS ARE TO RECEIVE THE SAME WALL TYPE UNLESS NOTED OTHERWISE.
 D. ALL WALLS ARE FULL HEIGHT TO STRUCTURE OR UNDERSIDE OF ROOF/FLOOR DECK ABOVE UNLESS OTHERWISE NOTED.
 E. WHERE TOP OF WALL MEETS UNDERSIDE OF ROOF DECK, PROVIDE DEFLECTION HEAD AS REQUIRED.
 F. REFERENCE BUILDING ELEVATIONS FOR EXTERIOR WINDOW TYPE DESIGNATION.

REQUIRED.

F. REFERENCE BUILDING ELEVATIONS FOR EXTERIOR WINDOW TYPE DESIGNATION.

G. REFERENCE DOOR SCHEDULE FOR DOOR TYPE DESIGNATION AND ADD'L INFORMATION.

H. SEE CODE ANALYSIS PLANS FOR FIRE EXTINGUISHER LOCATIONS.

PROVIDE BLOCKING AS REQUIRED ADJACENT TO FIRE EXTINGUISHERS FOR OWNER INSTALLED AED STATIONS.

AED STATIONS

J. COORDINATE ALL EXTERIOR WALL PENETRATIONS AMONG AFFECTED DISCIPLINES.

K. WATERPROOFING SYSTEMS AND THEIR INSTALLATIONS SHALL BE SUITABLE FOR THEIR INTENDED PURPOSES.

L. PROVIDE APPROPRIATE AND COMPLETE SEALANT OF ALL PENETRATIONS THROUGH EXTERIOR ASSEMBLIES. SEAL VOIDS BETWEEN SLEEVES, CONDUITS, AND OTHER PENETRATIONS WITH

APPROPRIATE JOINT SEALANT. CONTRACTOR TO ASSURE PROPER SEALANT OF ALL VOIDS AT OPENINGS AND PENETRATIONS.

M. EQUIPMENT BY OTHERS, SHOWN FOR REFERENCE ONLY.

N. CONTRACTOR TO COORDINATE WALL MOUNTED FURNITURE, INCLUDING BUT NOT LIMITED TO, CABINETRY, PROJECTION SCREENS, WHITE BOARDS, TELEVISIONS, ETC. AND PROVIDE NECESSARY BLOCKING AS REQUIRED.

O. CONTRACTOR SHALL COORDINATE DELIVERY AND INSTALLATION OF OWNER FURNISHED EQUIPMENT WITH THE OWNER.

P. ALL DIMENSIONS TO FACE OF FINISH, CENTERLINE OF COLUMN UNLESS OTHERWISE NOTED.
 ALIGN FINISHES WHERE INDICATED.
 Q. WALL THICKNESSES ARE ACTUAL UNLESS OTHERWISE NOTED.
 R. DIMENSIONS MARKED "CLR" ARE FROM FINISH SURFACE TO FINISH SURFACE. DIMENSIONS WITH THIS MARK TAKE PRIORITY OVER ADJACENT DIMENSIONS. DIMENSIONS ADJACENT TO LATCH SIDE OF DOORS INDICATE REQUIRED CLEARANCES BETWEEN CLEAR DOOR OPENING AND ADJACENT FINISH.
 S. ALL DIMENSIONS SHOWN AS PLUS/MINUS (+/-) ARE FOR GENERAL LAYOUT AND REFERENCE ONLY. DOORS NOT DIMENSIONED ARE TO BE LOCATED 4" FROM FACE OF WALL TO OUTSIDE EDGE OF

U. ALL RATED CONSTRUCTION ASSEMBLIES EXTEND FROM FLOOR STRUCTURE TO UNDERSIDE OF STRUCTURE AND DECKING ABOVE UNLESS OTHERWISE NOTED.
V. PROVIDE TYPE 'X' GYPSUM BOARD AT ALL FIRE RATED WALLS AND PARTITIONS. SEE CODE SUMMARY DRAWINGS AND FLOOR PLANS FOR SCOPE OF FIRE RATED WALLS.
W. ALL PENETRATIONS AND VOIDS THROUGH FIRE-RATED ASSEMBLIES TO BE FIRE STOPPED WITH APPROVED MATERIALS.
X. PROVIDE FIRE BLOCKING AS REQUIRED.

Y. STAIRS ARE DESIGN-BUILD BY CONTRACTOR. SEE DRAWINGS FOR TREADS, RISERS, RAILING, AND DIMENSIONAL REQUIREMENTS. SEE SPECIFICATIONS FOR DESIGN REQUIREMENTS. PROVIDE SHOP DRAWINGS WITH CALCULATIONS PREPARED AND STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN WASHINGTON FOR REVIEW BY ARCHITECT.
 Z. SEE STRUCTURAL DRAWINGS FOR FRAMING.
 AA. SEE STRUCTURAL DRAWINGS FOR PANEL/WALL THICKNESS.

BB. PAINT ALL EXPOSED STEEL.

CC. ALL EXPOSED EXTERIOR STEEL TO BE GALVANIZED.

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SHEET TITLE:

ARCHITECTURAL

GENERAL

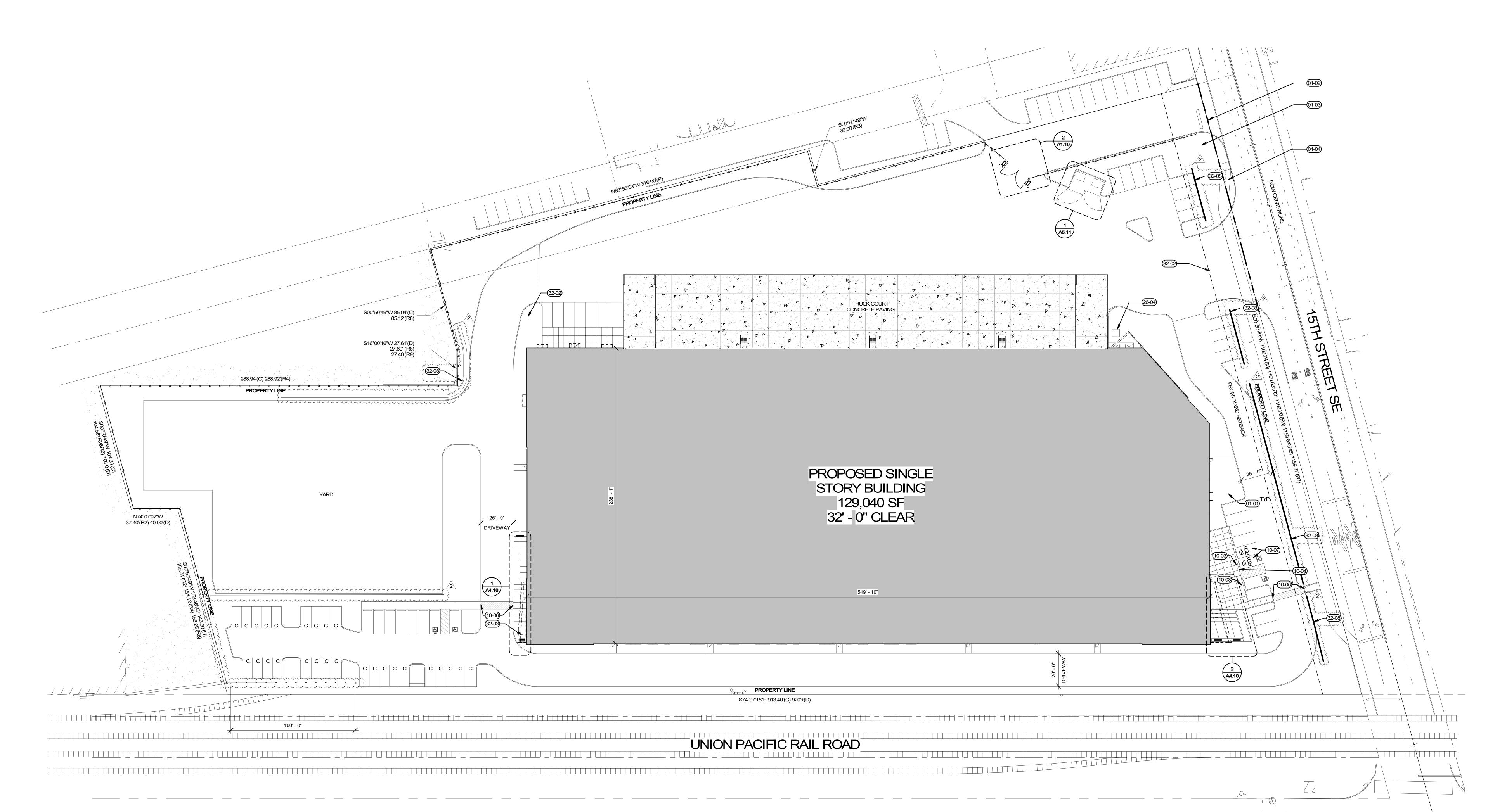
NOTES AND

SHEET

A0.01

SYMBOLS

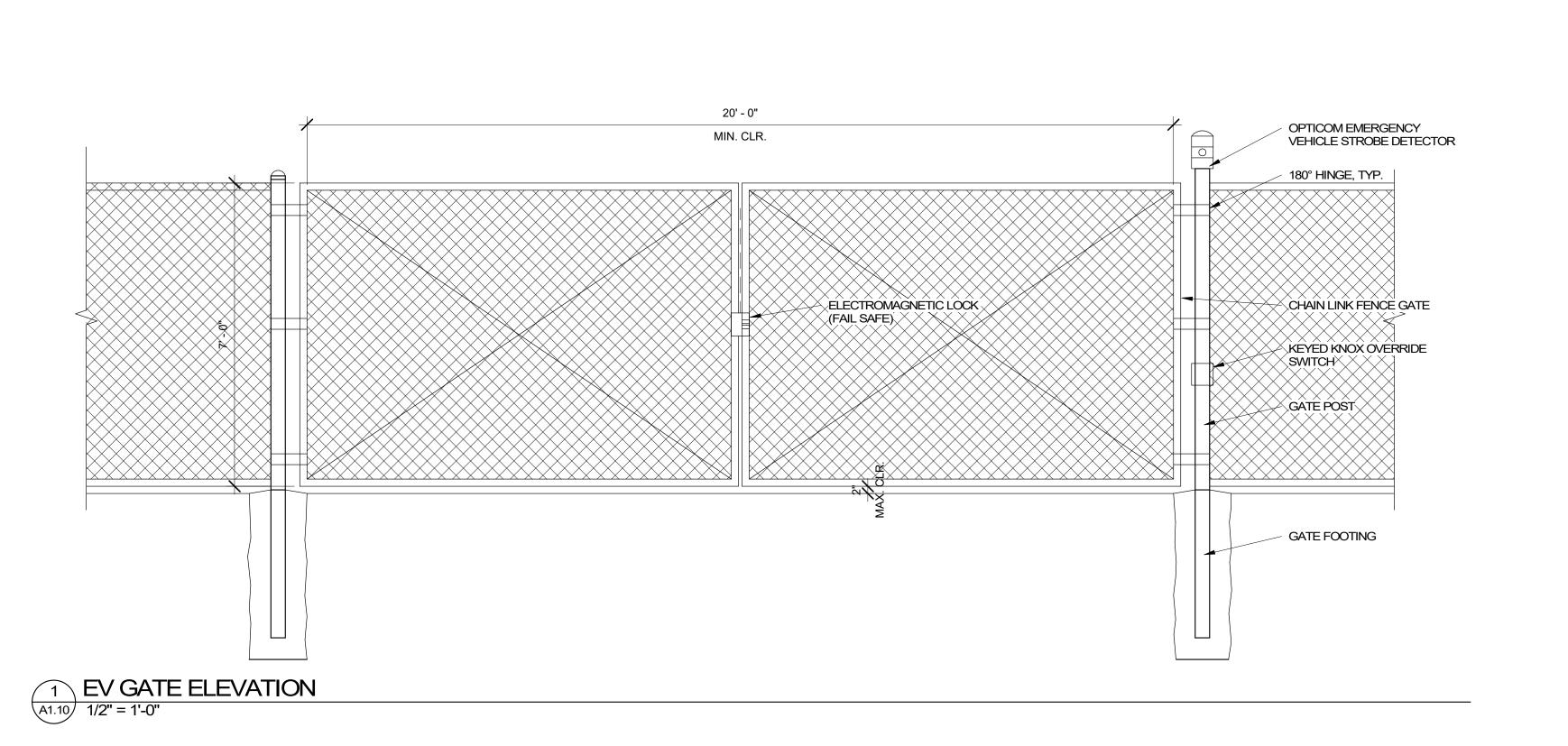
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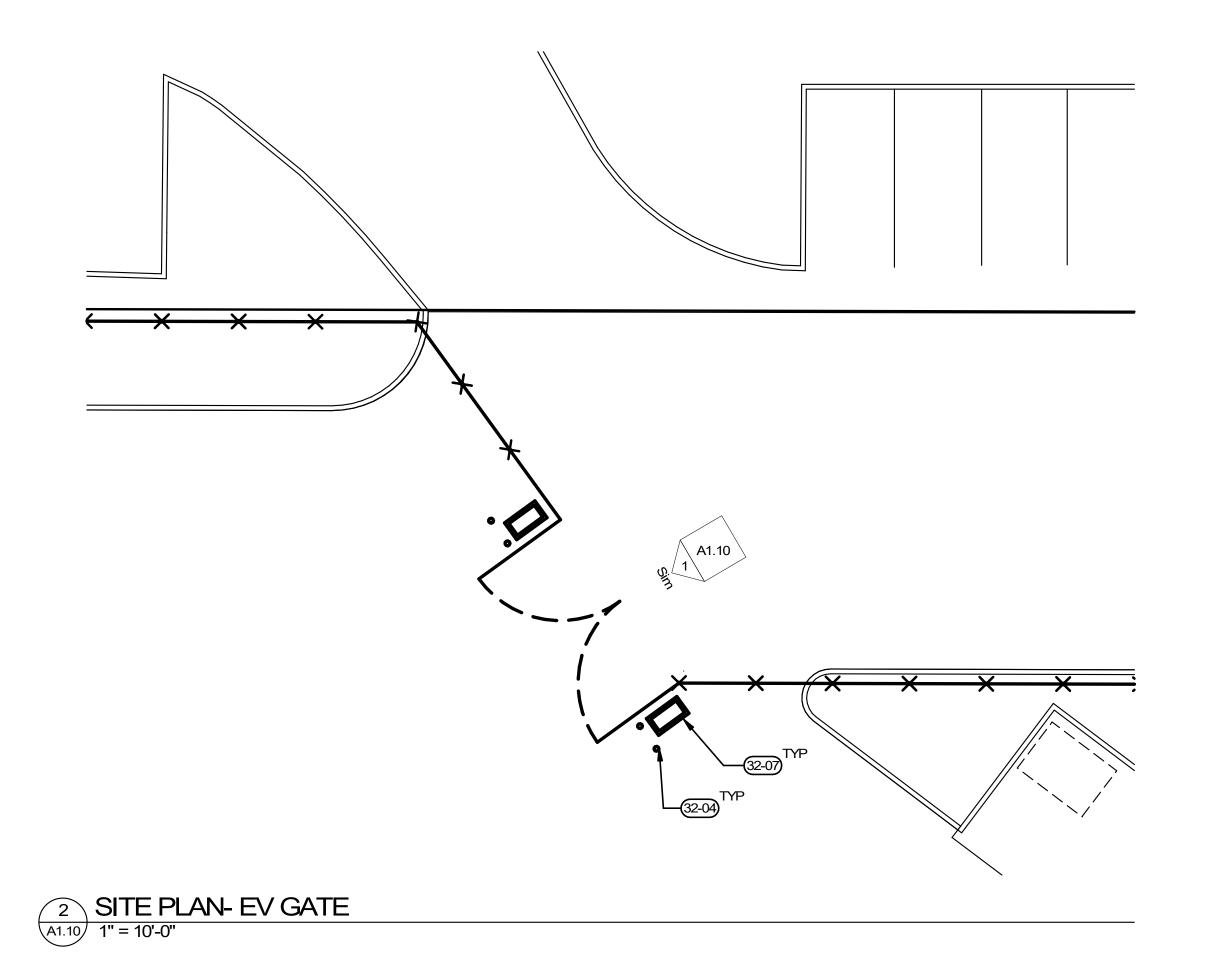


3 SITE PLAN A1.10 1" = 30'-0"



REFER TO LANDSCAPE PLANS IN SITE PERMIT DOCUMENTS FOR LANDSCAPE BUFFERS IN THIS AREA. 01-02 EXISTING PROPERTY LINE 01-03 PROPOSED NEW PROPERTY LINE NEW SIDEWALK - REFER TO CIVIL DRAWINGS. ADA PARKING SIGN. 10-04 NO PARKING SIGN. 10-06 DETECTABLE WARNINGS. 10-07 EV READY STALL. 26-04 TRANSFORMER 32-02 LANDSCAPE ISLAND. 32-03 (2) BIKE RACKS - SEE DETAILS 8 & 9/A5.13. 32-04 NEW BOLLARD- PAINT SAFETY YELLOW NEW SECURITY GATE FOR FIRE APPARATUS ACCESS PER IFC 503.6. EMERGENCY VEHICLE GATE PER ASTM F 2200 W/UL 325 AUTOMATIC OPERATORS W/BATTERY BACKUP, KNOX OVERRIDE SWITCH, AND OPTICOM SENSOR FOR EMERGENCY VEHICLE PRE-EMPTION SYSTEM. OPTICOM SYSTEM SHALL BE COMPATIBLE WITH GTT EMITTER PRODUCTS AND CODES. SYSTEM TO BE FULLY COMPATIBLE WITH CITY OF PUYALLUP FIRE DEPARTMENT SITE ACCESS REQUIREMENTS AND THEIR SYSTEMS. ŘETÁINING WÁLL, SÉÉ ČIVIL PÉRMIT 2





Architecture - Interior Planning - Engineering

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Project

FORTRESS -PUYALLUP 240 15TH ST SE PUYALLUP, WA 98372

Mechanical/Electrical

REGISTERED ARCHITECT

BANGET TIMOTHY CONWAY STATE OF WASHINGTON

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1 PLAN CHECK 11/07/23

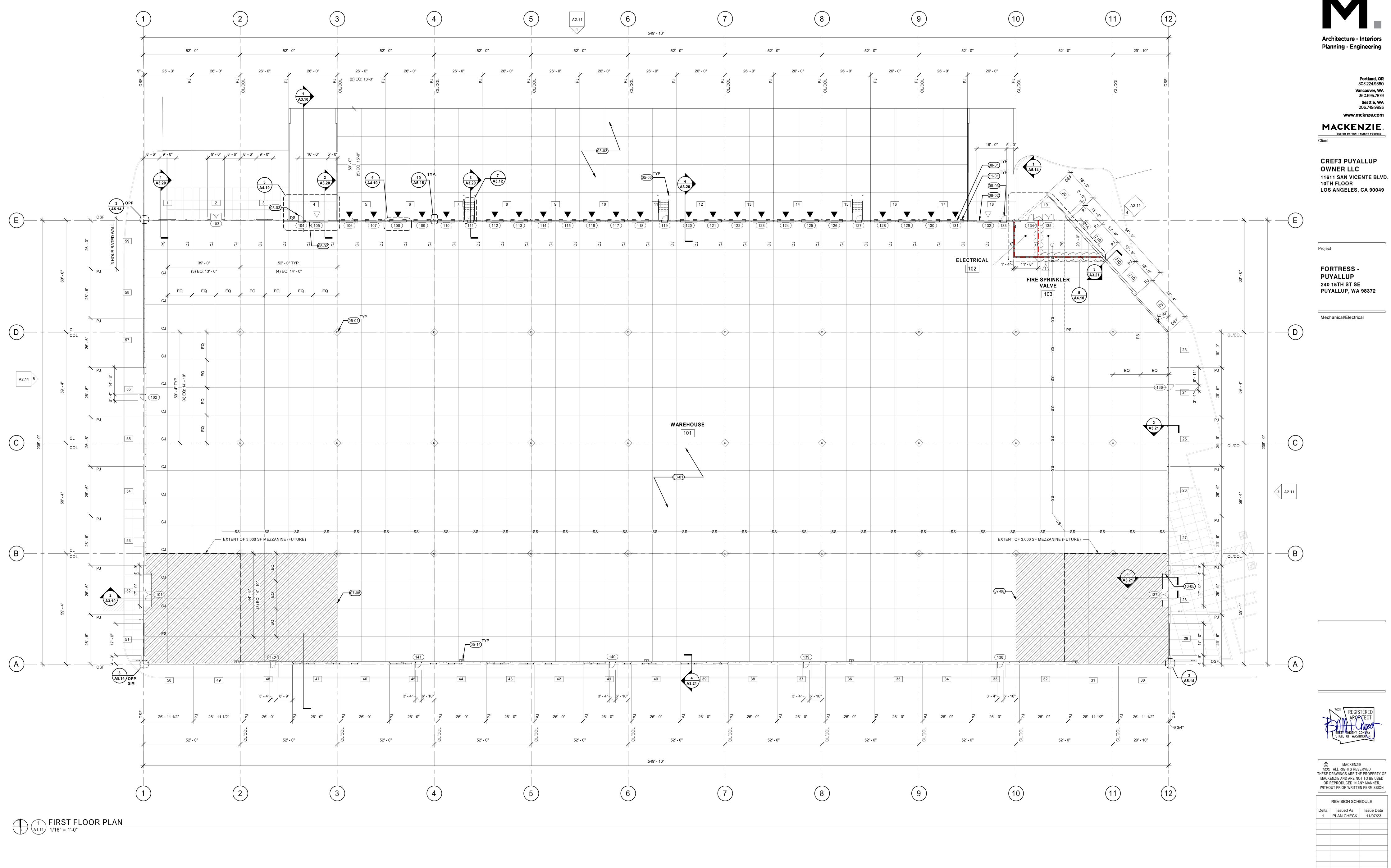
2 PLAN CHECK 10/09/24

SHEET TITLE:
SITE PLAN

SHEET

A1.10

JOB NO. **2220290.00**



ARCHITECTURAL GENERAL NOTES A. SEE ARCHITECTURAL GENERAL NOTES ON A0.01 FOR MORE

INFORMATION. SEE A6.10 FOR DOOR AND WINDOW SCHEDULE. ELECTRICAL SERVICE: 1600 AMP SERVICE. PROVIDE ADDITIONAL 4" CONDUITS TO PULL IN ADDITIONAL FEEDERS FROM THE TRANSFORMER TO THE SERVICE IN THE FUTURE FOR A TOTAL

OF 4000 AMPS. ALL LIGHTING SHALL BE LED. IBC 1006.2 PROVIDE EGRESS LIGHTING THROUGHOUT - 1 F.C. MIN. **KEYNOTES**

10-05

11-01

REINFORCED CONCRETE SLAB PER STRUCTURAL, SEALED AND POLISHED WITH DAYTON PENTRA-HARD FINISHER.

REINFORCED CONCRETE TRUCK APRON. SEE CIVIL DRAWINGS. HSS COLUMN, SEE STRUCTURAL. PAINT SAFETY YELLOW TO 12' AFF. 05-01 05-03 BOLLARD, SEE DETAIL 15/A5.13. 05-14 DOWNSPOUT OVERFLOW. SEE DETAIL 11/A5.16.

PROVIDE 10 MIL CLASS "A" UNDERSLAB VAPOR BARRIER AT FUTURE 07-08 OFFICE AREAS. INSULATED OVERHEAD DOOR. PAINT TO MATCH BUILDING. SEE DOOR

TYPES ON A6.10 FOR ADDITIONAL INFO. INSULATED OVERHEAD DRIVE-IN DOOR. PAINT TO MATCH. SEE DOOR TYPES ON A6.10 FOR ADDITIONAL INFO. INSULATED HM DOOR. SEE DOOR TYPES ON A6.10 FOR ADDITIONAL INFO.

DOCK DOOR BUMPER.

PROVIDE AND INSTALL KNOXBOX - VERIFY WITH FIRE DEPARTMENT.

<u>LEGEND</u>

//// UNDER SLAB VAPOR BARRIER — — EXTENT OF (FUTURE) MEZZANINE

SHEET

SHEET TITLE:

FIRST FLOOR

Portland, OR 503.224.9560

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Seattle, WA 206.749.9993

Autodesk Docs://Fortress-Puyallup/290-Fortress-Puyallup-V23-A.rvt 11/20/2023 2:15:08 PM 1/16" = 1'-0"

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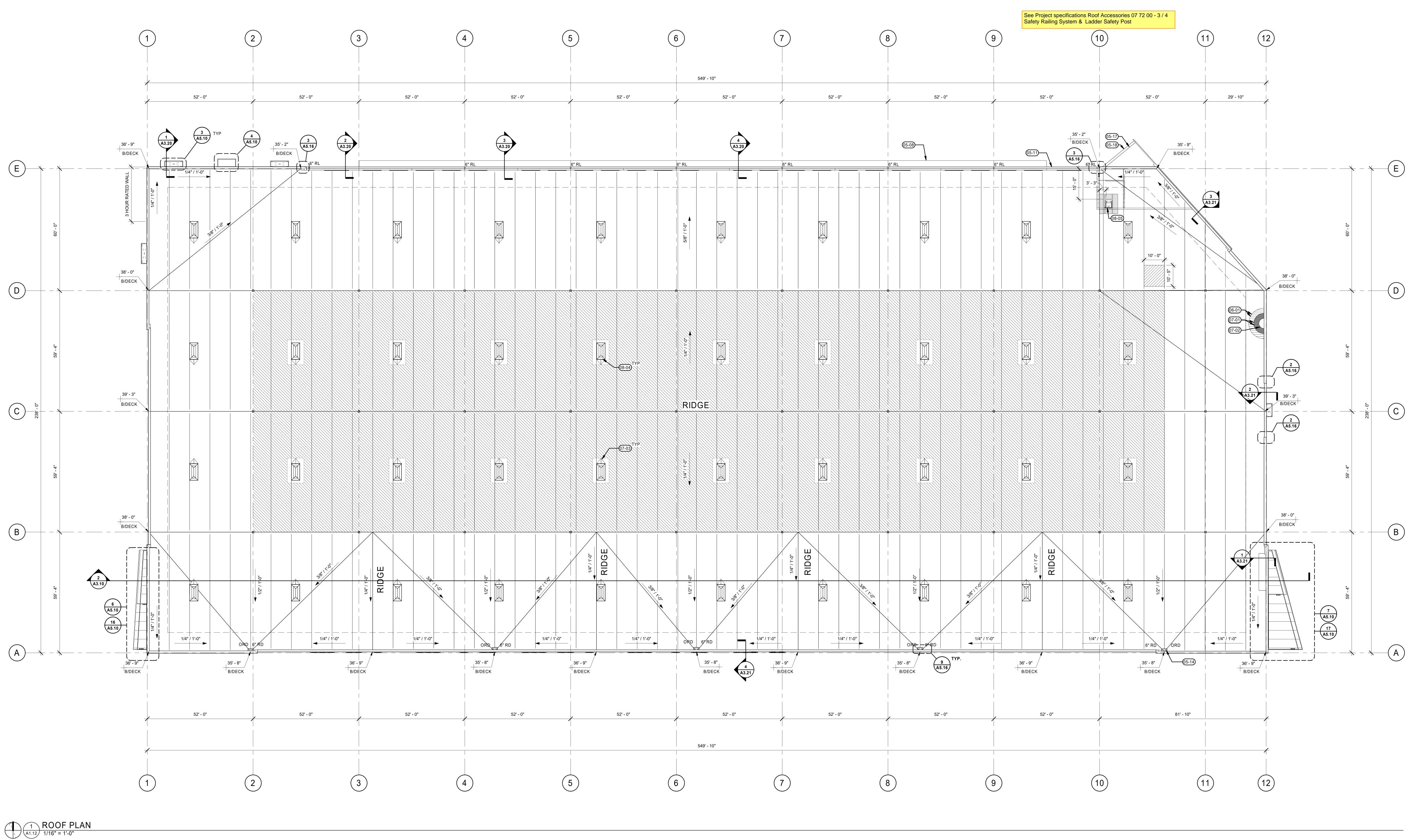
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PUYALLUP, WA 98372



LEGEND

FT MIN SLOPE.

ELEVATIONS)

WALK PAD

SOLAR PANEL READY AREA

SKYLIGHT WITH CRICKET AT HIGH SIDE 1/4" PER

BUILT UP CRICKET, 1/4" MIN (SEE PLAN FOR

NOTE: SOLAR ZONE REQUIREMENTS: 40% OF

SOLUTIONS. (129,040 SF x 40% = 51,104 SF)

SOLAR PANEL INVERTER READY AREA

CODE PRESCRIBED ROOF AREA TO BE DESIGNED

TO BE THE SOLAR ZONE AND READY FOR FUTURE PHOTOVOLTAIC OR SOLAR WATER HEATING

NOTE: INVERTER SPACE REQUIREMENTS: SPACE TO BE DESIGNED EITHER WITHIN THE SOLAR ZONE OR ADJACENT WITH MIN. 2 SF/1,000 SF OF

SOLAR ZONE AREA. (51,104 SF/1,000 x 2 = 102 SF)

TPO ROOF MEMBRANE,

60-MIL, WHITE, 20-YEAR

INTEGRAL INSULATION

FACING ON TOP LAYER

FIBER PROTECTION

- RIGID INSULATION

STAGGER JOINTS

SHEATHING, SEE STRUCTURAL SUBPURLIN, SEE

STRUCTURÁL

MIN. (2) LAYERS,

MIN. 6"

WARRANTY

APPROX. TOP

OF ROOF

SEE PLAN

2 TYPICAL ROOF ASSEMBLY
A1.12 3" = 1'-0"

B/ DECK

GENERAL NOTES

REGULAR MAINTENANCE.

ACCESSORY STRUCTURES.

INFORMATION.

MAINTAIN 1/4" PER FOOT MINIMUM SLOPE THROUGHOUT ROOF.

WALKWAY PADS ARE SHOWN SCHEMATICALLY. WALKWAY

STAIR/LADDER LANDINGS, AND OTHER AREAS REQUIRING

CONTRACTOR TO PROVIDE COVERS, ENCLOSURES, AND/OR

DUCTS, AND CONNECTIONS. COORDINATE AND REFER TO

MECHANICAL/ELECTRICAL DISCIPLINES FOR ADDITIONAL

PROVIDE SPLASHBLOCKS AT DOWNSPOUTS OF ALL ROOF

SEE DETAIL 2/A5.17 FOR PIPE/CONDUIT PENETRATIONS

SEE DETAIL 3/A5.17 FOR MECHANICAL UNIT CURBS

PADS SHOULD BE PROVIDED AT AREAS SHOWN AND TO

INCLUDE ALL EQUIPMENT INSTALLATIONS, DOORWAYS,

SEALANTS AT ALL ROOF PENETRATIONS, PIPES, CURBS,

ALL ROOF ELEVATIONS TO BOTTOM OF DECK.

KEYNOTES

05-14

05-18

07-01

07-02

08-04

08-05

BIDDER-DESIGN: DOCK DOOR CANOPY. SEE DETAILS 14,

SHEET METAL GUTTER, PAINT. SEE DETAIL 3/A5.16.

DOWNSPOUT OVERFLOW. SEE DETAIL 11/A5.16.

WOOD DECKING, SEE STRUCTURAL DRAWINGS.

TPO SINGLE PLY ROOFING SYSTEM OVER INSULATION,

CRICKET AS REQUIRED FOR MIN. 1/4" PER FOOT SLOPE,

RIGID INSULATION, SEE DETAIL 2/A1.12.

4' X 8' SKYLIGHT, SEE DETAIL 6/A5.16.

ROOF HATCH ACCESS, SEE DETAIL 6/A5.17.

15, & 16 ON SHEET A5.14.

METAL PANEL. PAINT.

SEE DETAIL 2/A1.12.

SEE DETAIL 8/A5.16.

STEEL KICKER PER STRUCTURAL.

SHEET TITLE:

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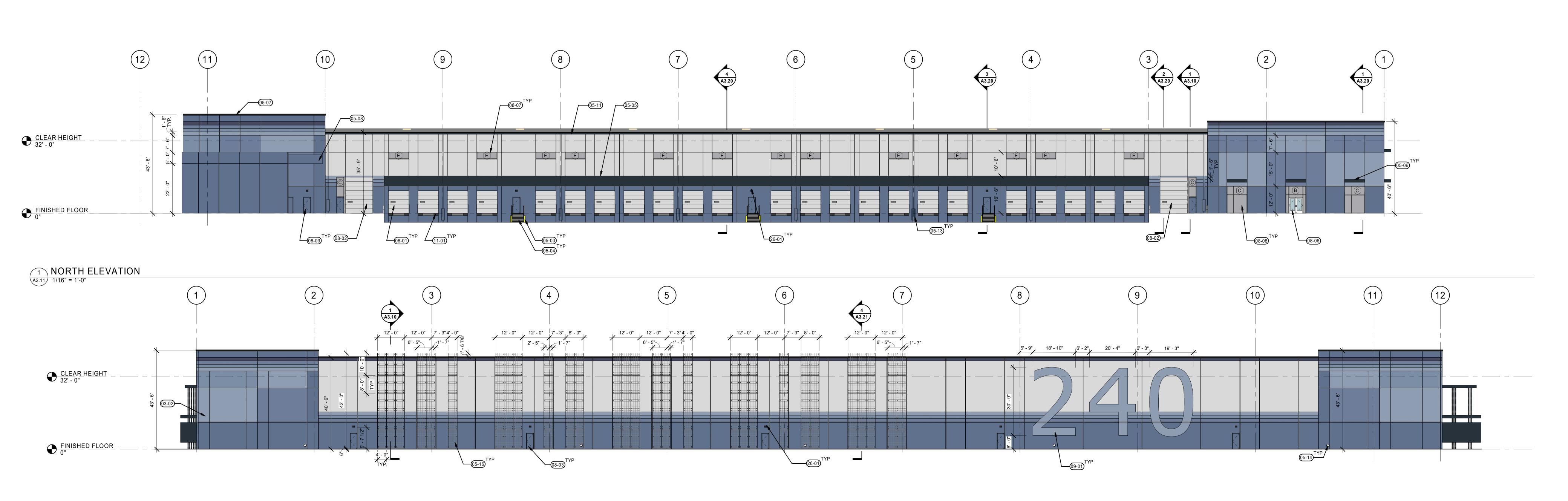
ROOF PLAN

Δ112

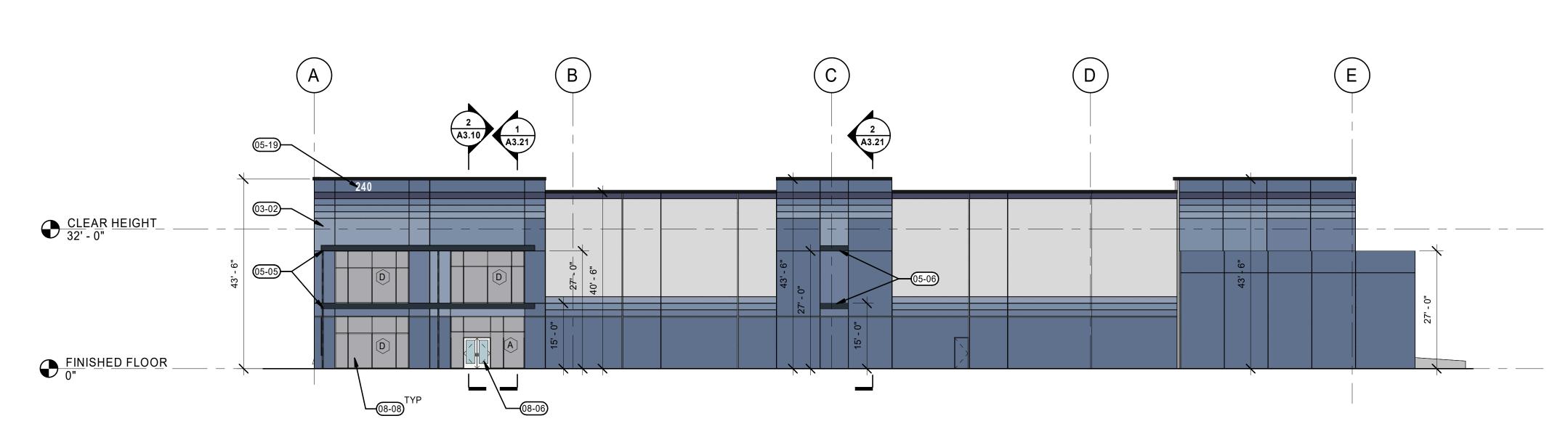
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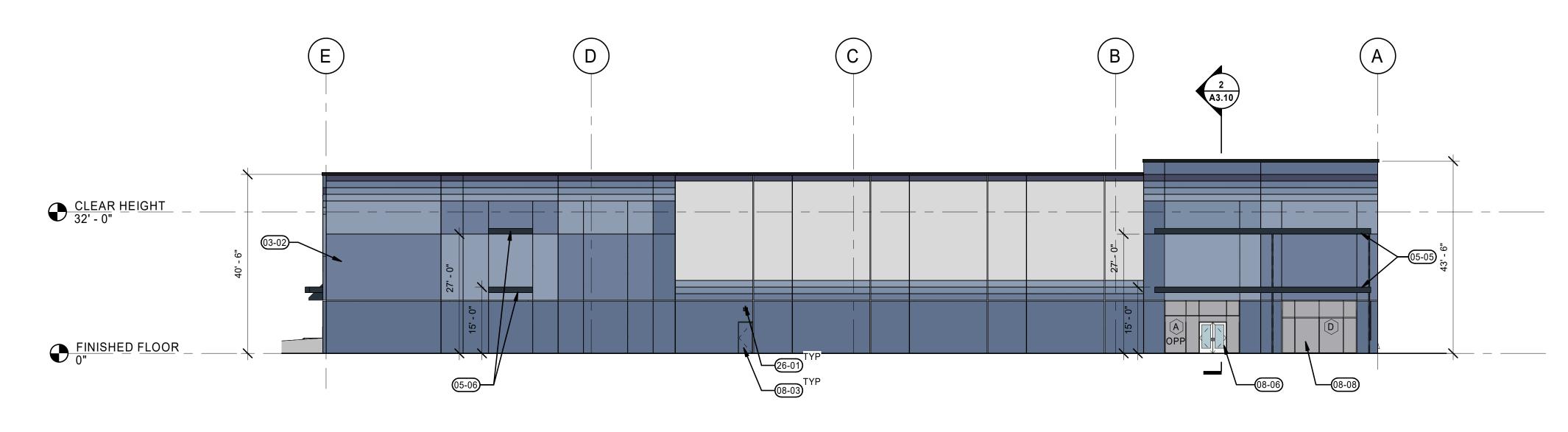
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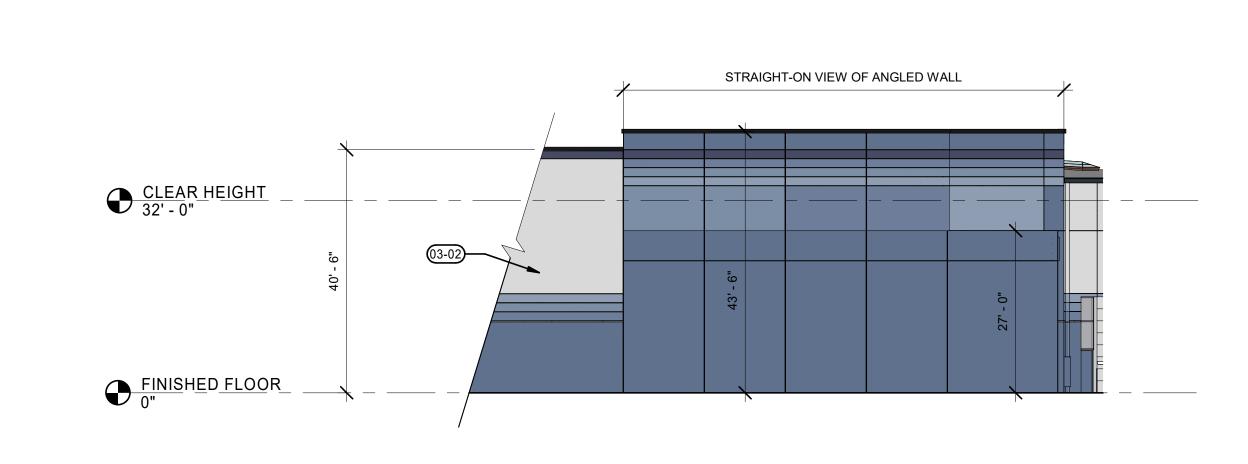
2 SOUTH ELEVATION
A2.11 1/16" = 1'-0"



3 EAST ELEVATION
A2.11 1/16" = 1'-0"



5 WEST ELEVATION
A2.11 1/16" = 1'-0"



4 NORTHEAST ELEVATION
A2.11 1/16" = 1'-0"

11-01

DOCK DOOR BUMPER.

WALL MOUNTED EGRESS LIGHT BY ELECTRICAL.

PAINT LEGEND **KEYNOTES** PAINT - PT1 SW 6523 WINDCHILL TILT-UP CONCRETE WALL, SEE STRUCTURAL. NO PAINT ON INTERIOR WALL. 05-03 BOLLARD, SEE DETAIL 15/A5.13. PAINT - PT2 SW 7619 DENIM 05-04 STEEL ACCESS STAIR, BY DESIGN BUILD. METAL CANOPY. SEE SHEET DETAILS 9, 15, 18, & 19 ON SHEET A5.10. METAL ACCENT DETAIL PROJECTING FROM WALL. SEE DETAILS 9, 13, & 18 ON SHEET A5.10. PAINT - PT3 SW 7619 LABRADORITE METAL COPING. SEE DETAIL 1/A5.16. 05-08 BIDDER-DESIGN: DOCK DOOR CANOPY. SEE DETAILS 14, 15, & 16 ON SHEET PAINT - PT4 SW 6522 SPORTY BLUE SHEET METAL GUTTER, PAINT. SEE DETAIL 3/A5.16. 05-13 DOWNSPOUT GUARD, PAINT TO MATCH BUILDING BEHIND. SEE DETAIL 05-14 DOWNSPOUT OVERFLOW. SEE DETAIL 11/A5.16. PAINT - PT5 SW 9151 DAPHNE 05-16 TRELLIS PANEL SYSTEM. SEE DETAIL 16/A5.13. FIRE DEPARTMENT BUILDING ADDRESS. 24" TALL AND 1/2" THICK METAL LETTERS, COLOR WHITE. PAINT - PT6 SW 9176 DRESS BLUES INSULATED OVERHEAD DOOR. PAINT TO MATCH BUILDING. SEE DOOR TYPES ON A6.10 FOR ADDITIONAL INFO. INSULATED OVERHEAD DRIVE-IN DOOR. PAINT TO MATCH. SEE DOOR TYPES ON A6.10 FOR ADDITIONAL INFO. SW 9179 ANCHORS AWEIGH INSULATED HM DOOR. SEE DOOR TYPES ON A6.10 FOR ADDITIONAL INFO. 08-06 STOREFRONT ENTRY. 08-07 CLERESTORY GLAZING. CLEAR ANODIZED ALUMINUM STOREFRONT SYSTEM. NOTE: EXTERIOR WALL PAINT: LOXON XP OR ALERNATE (ELASTOMERIC) BUILDING ADDRESS, PAINTED P-TBD.

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Planning = Engineering

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Project

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Mechanical/Electrical

REGISTERED ARCHITECT

BRETT TIMOTHY CONWALL

STATE OF WASHINGTON

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REVISION SCHEDULE

MACKENZIE

REVISION SCHEDULE

Delta Issued As Issue Da

SHEET TITLE:

BUILDING

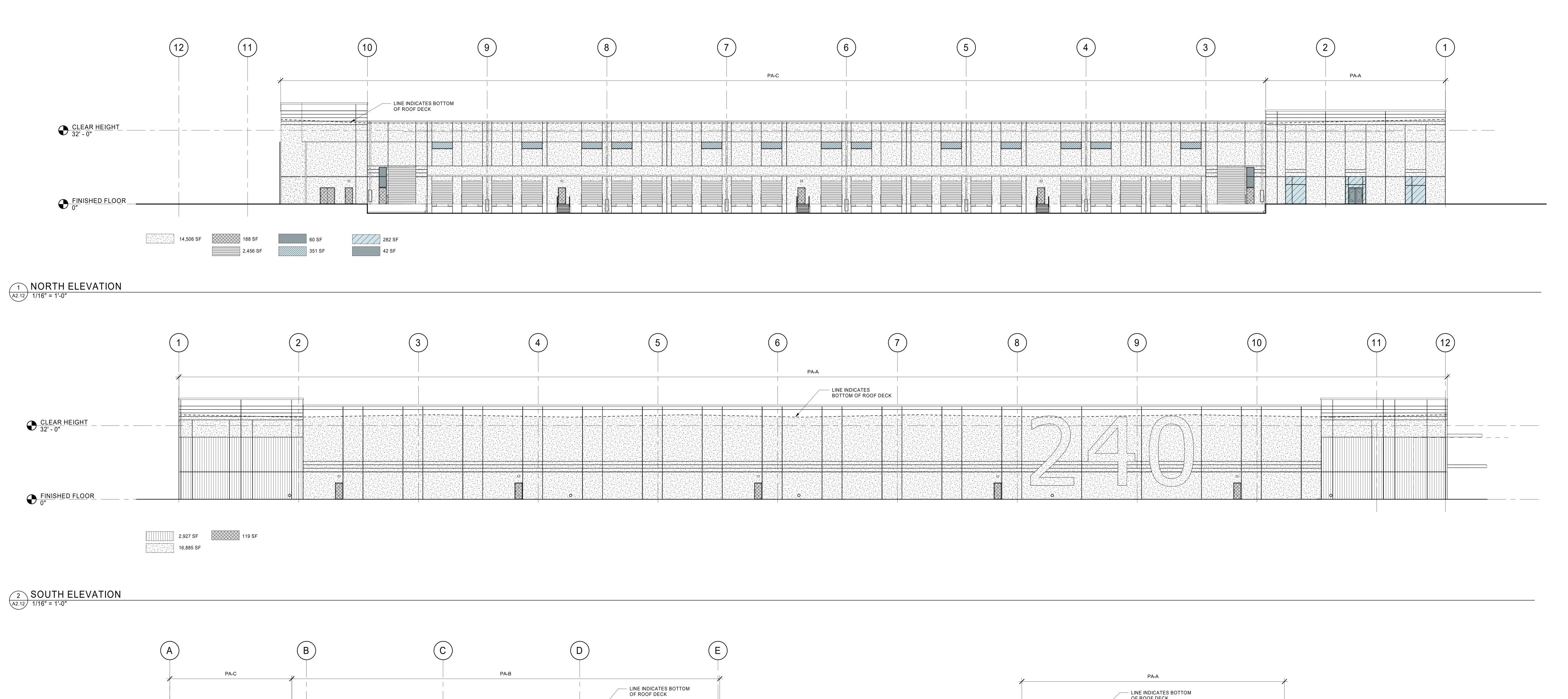
ELEVATIONS

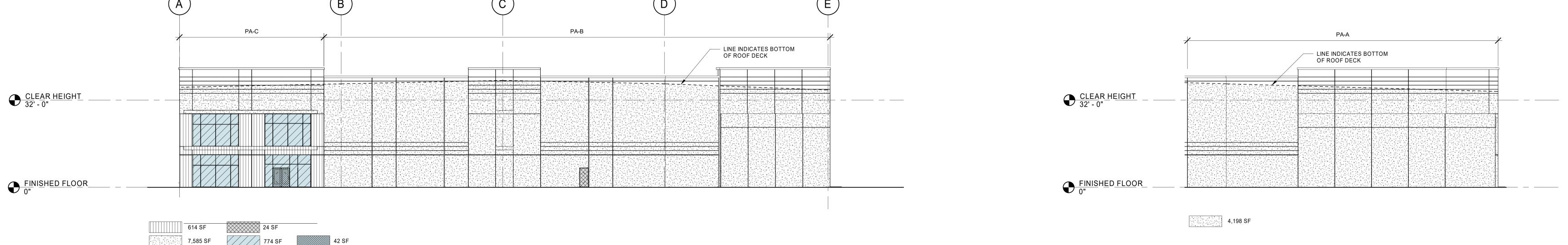
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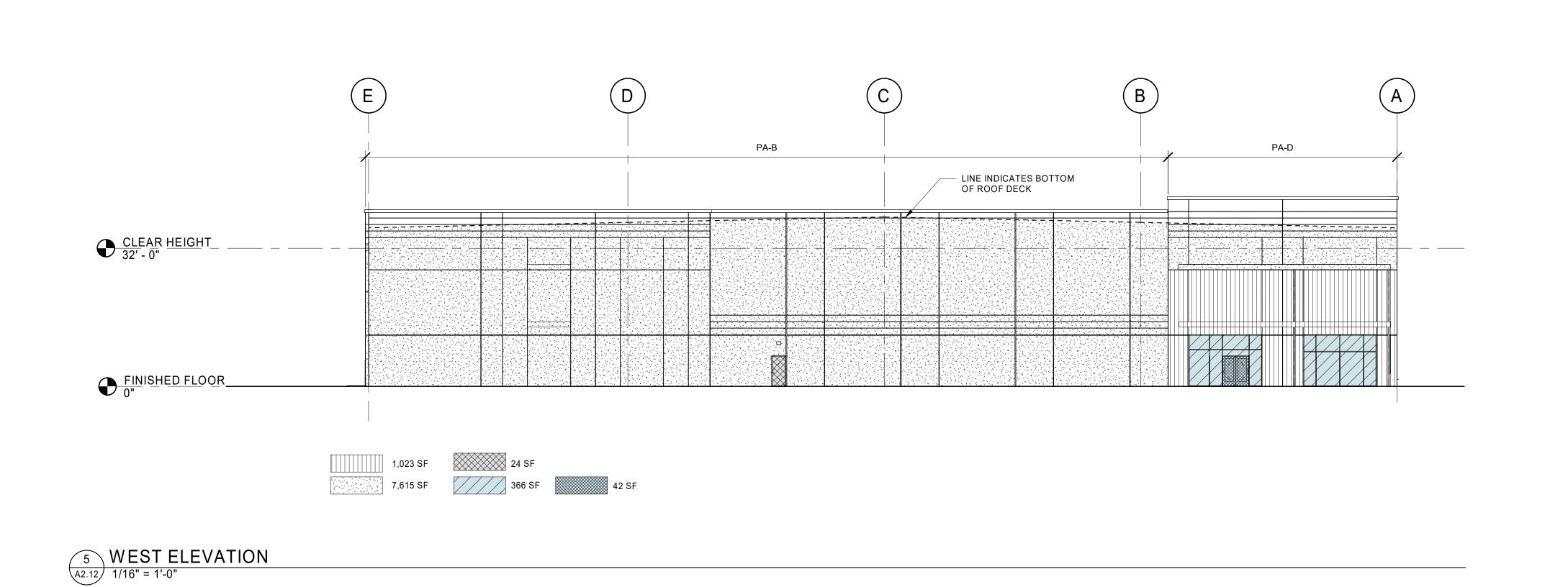
SHEET

A2.11

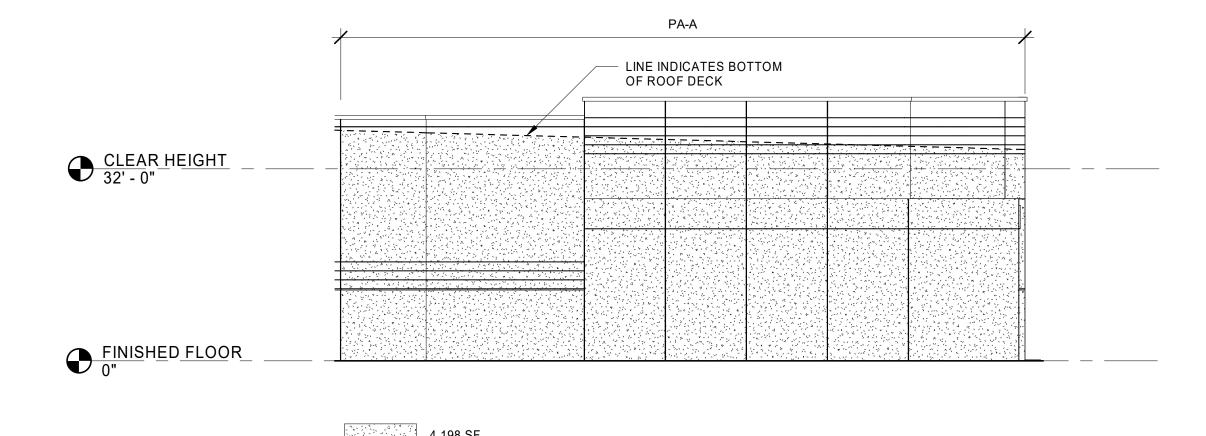
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3 EAST ELEVATION A2.12 1/16" = 1'-0"



4 NORTHEAST ELEVATION
A2.12 1/16" = 1'-0"

GENERAL NOTES SEE STRUCTURAL DRAWINGS FOR PANEL THICKNESS WALL INSULATION TO BE INSTALLED AS PART OF FUTURE TENANT IMPROVEMENT, SHOWN FOR CODE COMPLIANCE ONLY PA-A 8" PANEL - SEE STRUCTRUAL DRAWINGS PA-B 8-3/4" PANEL - SEE STRUCTRUAL DRAWINGS PA-C 9-1/2" PANEL - SEE STRUCTURAL DRAWINGS

PA-D 10" PANEL - SEE STRUCTURAL DRAWINGS NOTE: THIS PROJECT IS A SEMI-HEATED BUILDING WITHOUT ELECTRIC RESISTANCE HEATING, THEREFORE THE FOLLOWING WA STATE ENERGY CODE PROVISION APPLIES: "SECTION 402.1.1.2 - SEMI-HEATED SPACES HEATED BY MECHANICAL SYSTEMS THAT DO NOT INCLUDE ELECTRIC RESISTANCE HEATING EQUIPMENT ARE NOT REQUIRED TO COMPLY WITH THE OPAQUE WALL INSULATION PROVISIONS OF SECTION C402.2.3 FOR WALL THAT SEPARATE SEMI-HEATED SPACES FROM THE EXTERIOR OR LOW ENERGY SPACES.

BASE AND ADJUSTED "U" VALUES OVERHEAD DOOR: HM DOOR: U=0.25 U=0.37 MAX BASE U=0.29 SHGC=0.31 GLASS: BASIS OF DESIGN: INSULATED SOLAR GREY W/ SOLARBAN 60, LOW E ADJUSTED U (REDUCED FOR "ASSEMBLY VALUE") GLASS AT STOREFRONT (91% GLASS) U=0.38 MAX SHGC=0.295

GLASS AT TRANSOM (83.3% GLASS) U=0.38 MAX SHGC=0.27 GLASS SF DOOR (69% GLASS) U=0.60 MAX SHGC=0.24

LEGEND		
	CONCRETE WALL	46,591 SF
	CONCRETE WALL WITH METAL STUD FURRING & BATT INSULATION U=0.055 (R-13)	4,664 SF
	HOLLOW METAL DOORS U=0.37	356 SF
	INSULATED OVERHEAD DOORS U=0.25	2,456 SF
	STOREFRONT GLAZING U=0.38	1,422 SF
	CLERESTORY WINDOWS U=0.29	351 SF
	TRANSOM WINDOWS U=0.38	60SF

STOREFRONT DOORS

U=0.60

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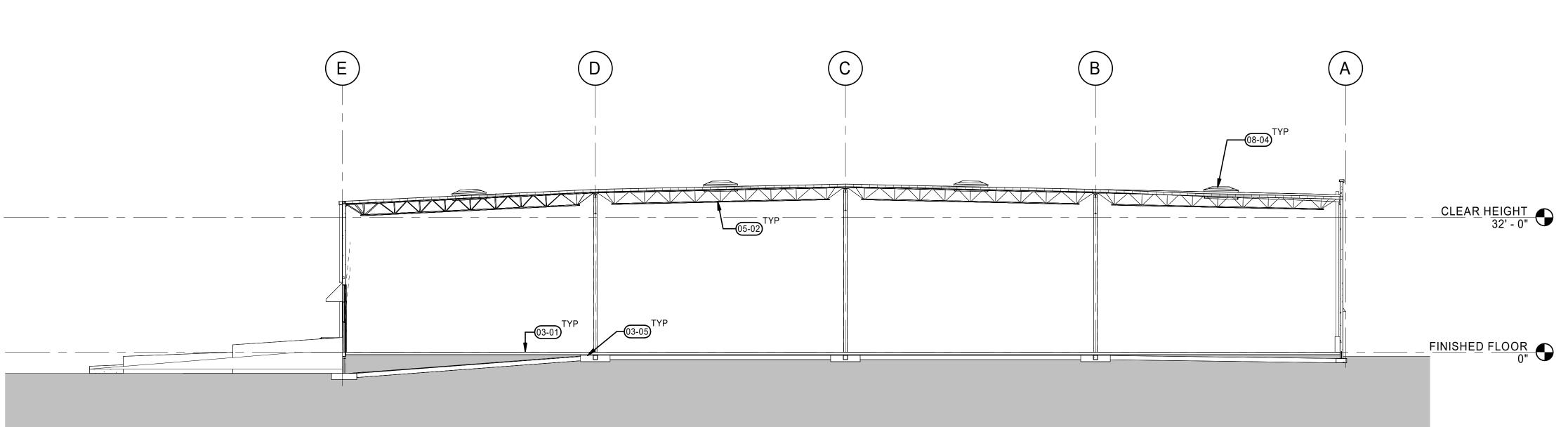
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SHEET TITLE: BUILDING INSULATION **ELEVATIONS**

SHEET

A2.12

126 SF



2 WALL SECTION A3.10 1/16" = 1'-0" <u>KEYNOTES</u>

03-01 REINFORCED CONCRETE SLAB PER STRUCTURAL, SEALED AND POLISHED WITH DAYTON PENTRA-HARD

FINISHER.

03-05 CONCRETE FOOTING, SEE STRUCTURAL FOR SIZE AND REINFORCING.

05-02 STEEL JOIST FRAMING, SEE STRUCTURAL FOR ADDITIONAL INFO.
08-04 4' X 8' SKYLIGHT, SEE DETAIL 6/A5.16.

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PUYALLUP, WA 98372

Mechanical/Electrical

REGISTERED
ARCHITECT

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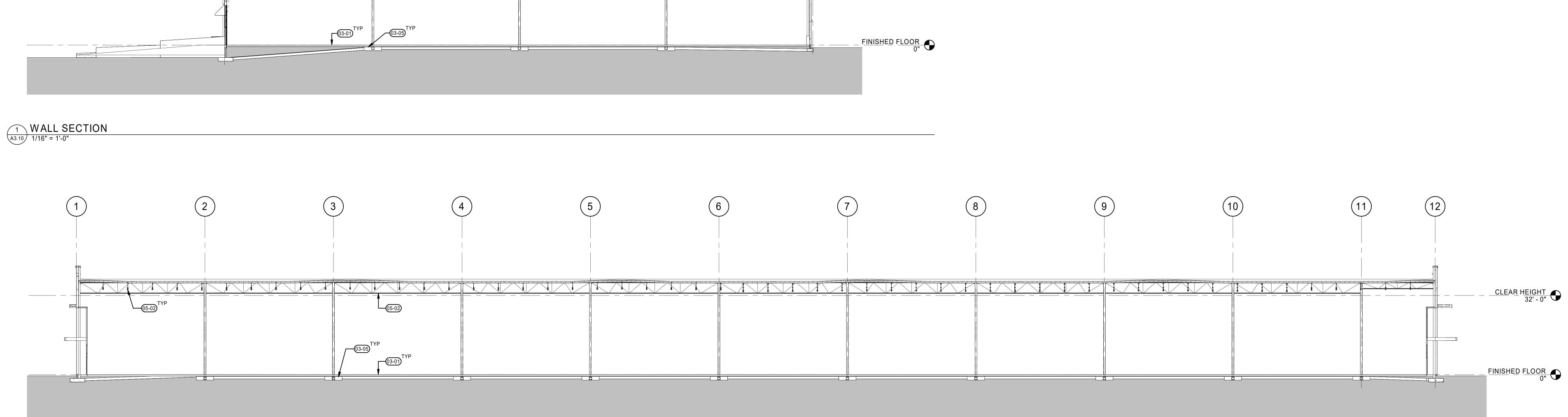
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BUILDING
SECTIONS

SHEET

A3.10

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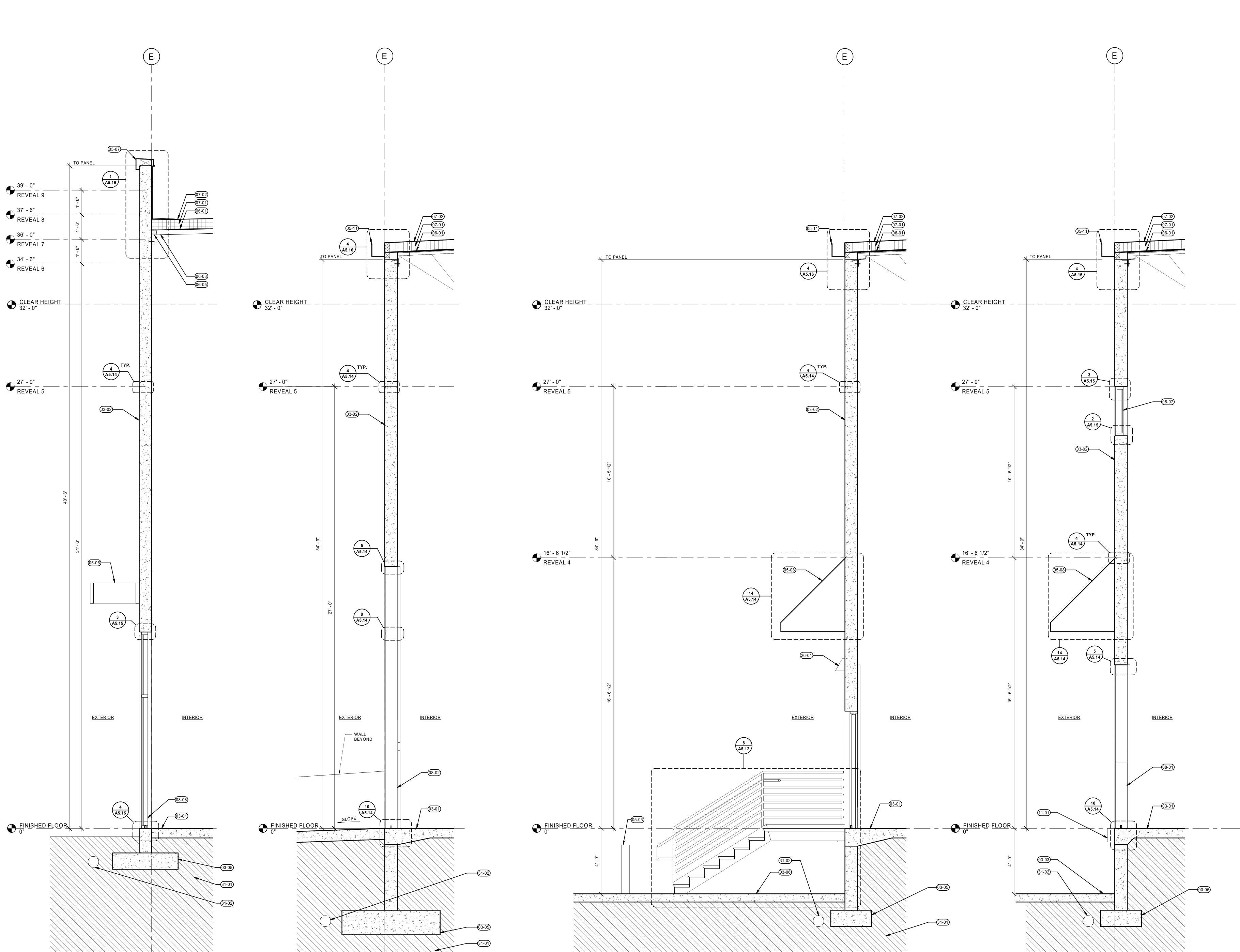
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10TH FLOOR



3 DOCK STAIR WALL SECTION
A3.20 1/2" = 1'-0"

DOCK RAMP WALL SECTION

A3.20 1/2" = 1'-0"

1 NORTH ENTRY WALL SECTION
A3.20 1/2" = 1'-0"

KEYNOTES

REINFORCED CONCRETE SLAB PER STRUCTURAL, SEALED AND POLISHED WITH DAYTON PENTRA-HARD FINISHER.

03-02 TILT-UP CONCRETE WALL, SEE STRUCTURAL. NO PAINT ON INTERIOR WALL. REINFORCED CONCRETE TRUCK APRON. SEE CIVIL

DRAWINGS. CONCRETE FOOTING, SEE STRUCTURAL FOR SIZE AND REINFORCING. 03-06 CONCRETE PAVING.

CANOPY GENERAL NOTES

CONSTRUCTION.

05-03 BOLLARD, SEE DETAIL 15/A5.13. METAL ACCENT DETAIL PROJECTING FROM WALL. SEE DETAILS 9, 13, & 18 ON SHEET A5.10.

METAL COPING. SEE DETAIL 1/A5.16. BIDDER-DESIGN: DOCK DOOR CANOPY. SEE DETAILS 14,

15, & 16 ON SHEET A5.14.

SHEET METAL GUTTER, PAINT. SEE DETAIL 3/A5.16. 06-01 WOOD DECKING, SEE STRUCTURAL DRAWINGS. 06-03 SUB-PURLIN, SEE STRUCTURAL

06-05 LEDGER, SEE STRUCTURAL 07-01 RIGID INSULATION, SEE DETAIL 2/A1.12. 07-02

TPO SINGLE PLY ROOFING SYSTEM OVER INSULATION, SEE DETAIL 2/A1.12. INSULATED OVERHEAD DOOR. PAINT TO MATCH BUILDING. SEE DOOR TYPES ON A6.10 FOR ADDITIONAL

INSULATED OVERHEAD DRIVE-IN DOOR. PAINT TO MATCH. SEE DOOR TYPES ON A6.10 FOR ADDITIONAL

CLERESTORY GLAZING.

CLEAR ANODIZED ALUMINUM STOREFRONT SYSTEM. 11-01 DOCK DOOR BUMPER. 26-01 WALL MOUNTED EGRESS LIGHT BY ELECTRICAL.

REFER TO GEOTECHNICAL REPORT FOR SUBSURFACE PREPARATION FOR CONSTRUCTION.

FOOTING DRAINS AS PRESCRIBED BY GEOTECHNICAL REPORT. REFER TO CIVIL DRAWINGS.

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PUYALLUP

FORTRESS -

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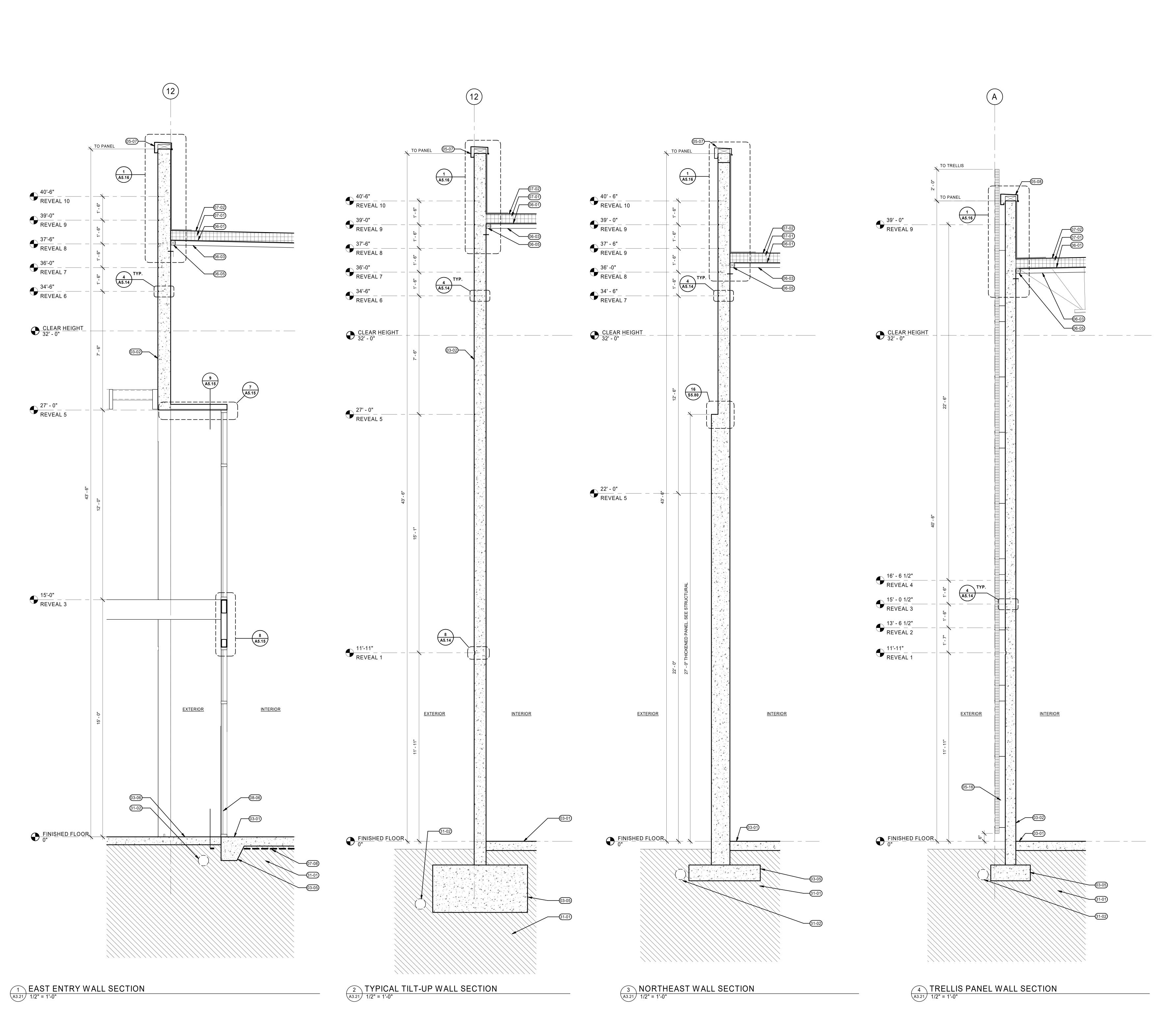
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SHEET TITLE:
WALL
SECTIONS

A3.20

4 DOCK DOOR WALL SECTION
A3.20 1/2" = 1'-0"



Planning - Engineering

CANOPY GENERAL NOTES

- VERIFY AND CONFIRM ALL DIMENSIONS AND CONDITIONS.
 NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO
 CONSTRUCTION.
 SEE STRUCTURAL DRAWINGS FOR PANEL THICKNESS.

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KEYNOTES

REINFORCED CONCRETE SLAB PER STRUCTURAL, SEALED AND POLISHED WITH DAYTON PENTRA-HARD

03-02 TILT-UP CONCRETE WALL, SEE STRUCTURAL. NO PAINT ON INTERIOR WALL. CONCRETE FOOTING, SEE STRUCTURAL FOR SIZE AND

REINFORCING. 03-06 CONCRETE PAVING.

05-07 METAL COPING. SEE DETAIL 1/A5.16. BIDDER-DESIGN: DOCK DOOR CANOPY. SEE DETAILS 14, 10TH FLOOR 05-08

15, & 16 ON SHEET A5.14.

TRELLIS PANEL SYSTEM. SEE DETAIL 16/A5.13. WOOD DECKING, SEE STRUCTURAL DRAWINGS. 06-03 SUB-PURLIN, SEE STRUCTURAL

06-05 LEDGER, SEE STRUCTURAL

07-01 RIGID INSULATION, SEE DETAIL 2/A1.12. TPO SINGLE PLY ROOFING SYSTEM OVER INSULATION, SEE DETAIL 2/A1.12.

PROVIDE 10 MIL CLASS "A" UNDERSLAB VAPOR BARRIER AT FUTURE OFFICE AREAS. 08-06 STOREFRONT ENTRY.

REFER TO GEOTECHNICAL REPORT FOR SUBSURFACE

PREPARATION FOR CONSTRUCTION. FOOTING DRAINS AS PRESCRIBED BY GEOTECHNICAL REPORT. REFER TO CIVIL DRAWINGS.

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SHEET TITLE:
WALL
SECTIONS

A3.21

JOB NO. **222**0290.00 PERMIT SET 6/28/2023
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10TH FLOOR

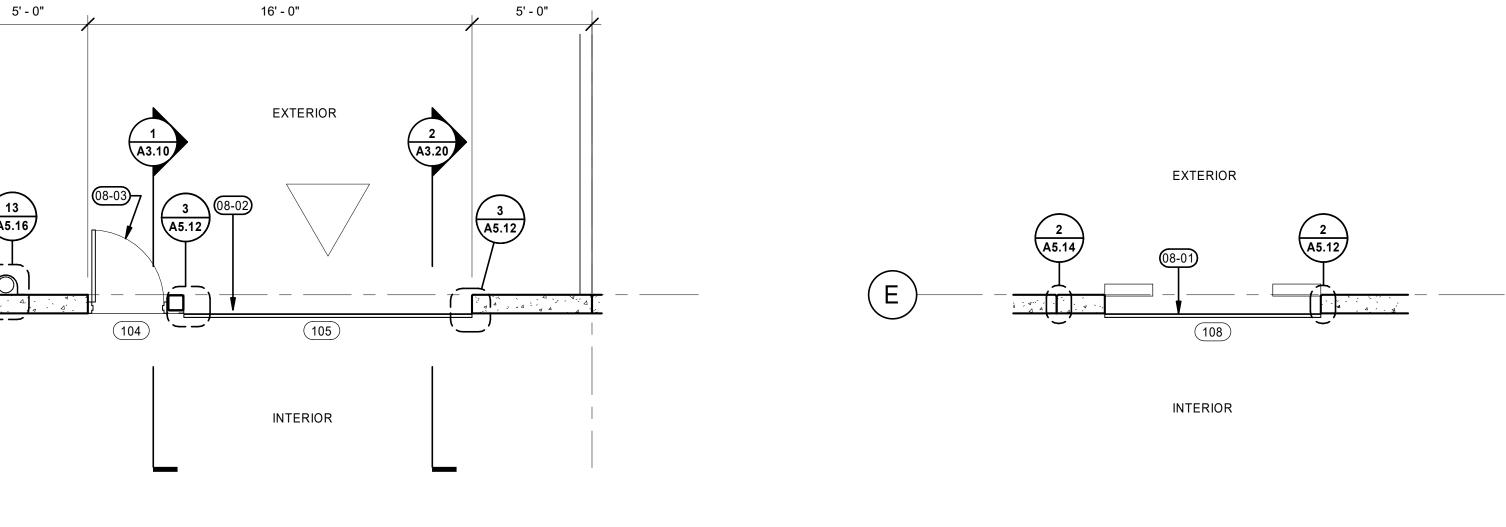
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240 15TH ST SE

Mechanical/Electrical

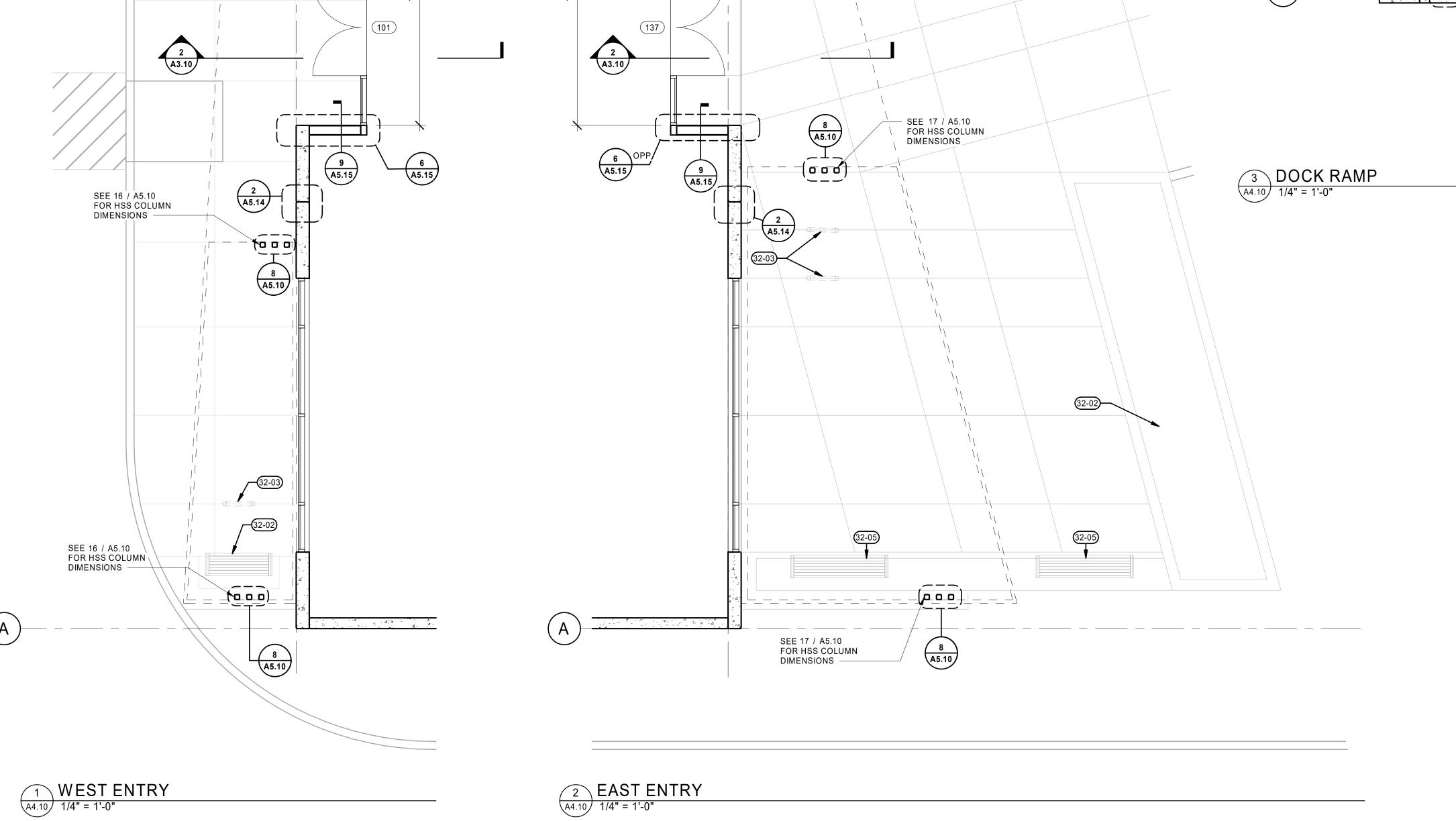
PUYALLUP, WA 98372

PUYALLUP



4 DOCK A4.10 1/4" = 1'-0"

26' - 0" PANEL



4' - 0"

3' - 4" / 4' - 6"

6' - 4"

FIRE SPRINKLER

103

Y SIM Y SIM

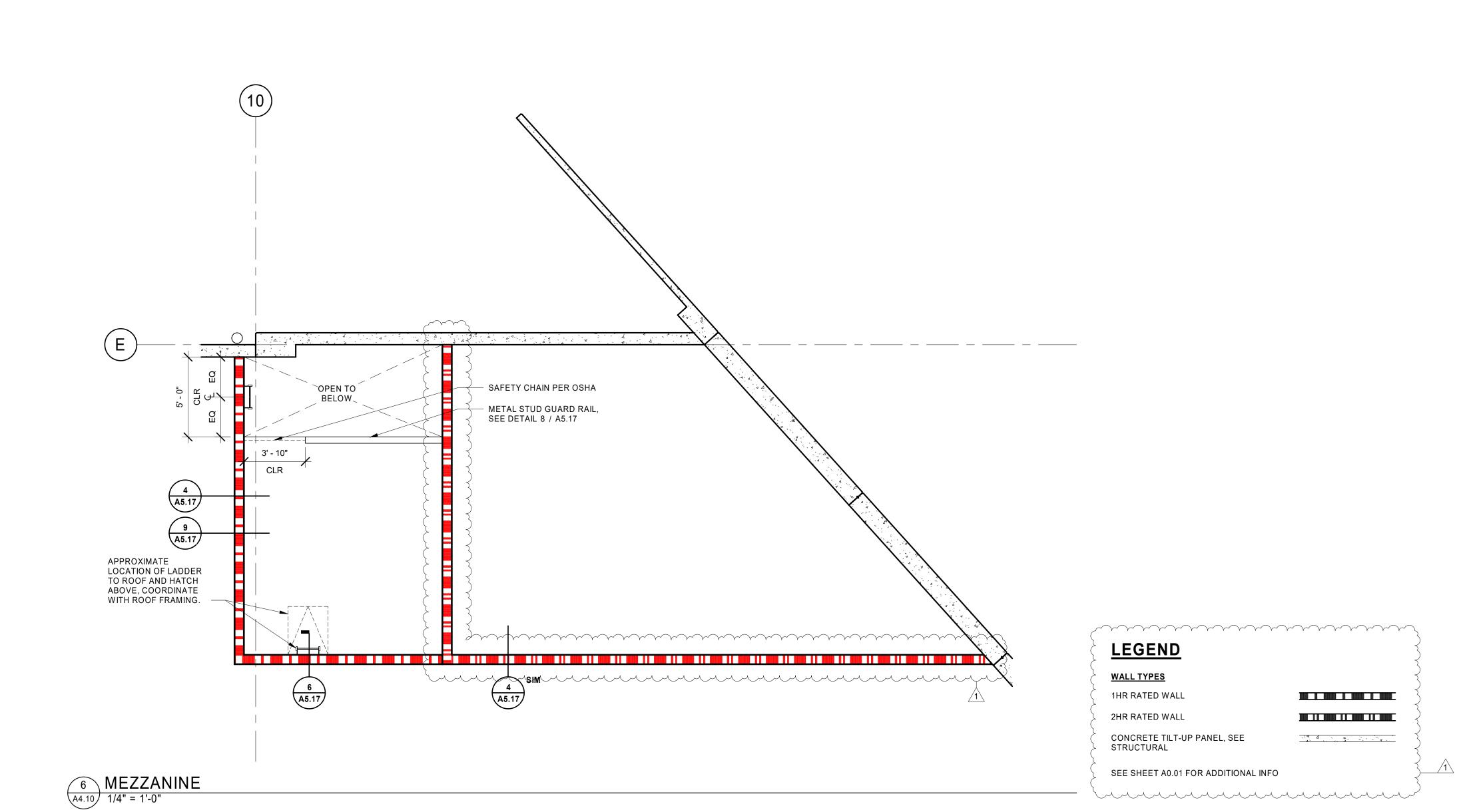
6' - 4"

- LADDER TO MEZZANINE SEE 7 / A5.17

ELECTRICAL

11' - 8"

5 ELECTRICAL ROOM AND FIRE SPRINKLER
A4.10 1/4" = 1'-0"





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REVISION SCHEDULE

Delta Issued As Issue Date
1 PLAN CHECK 11/07/23

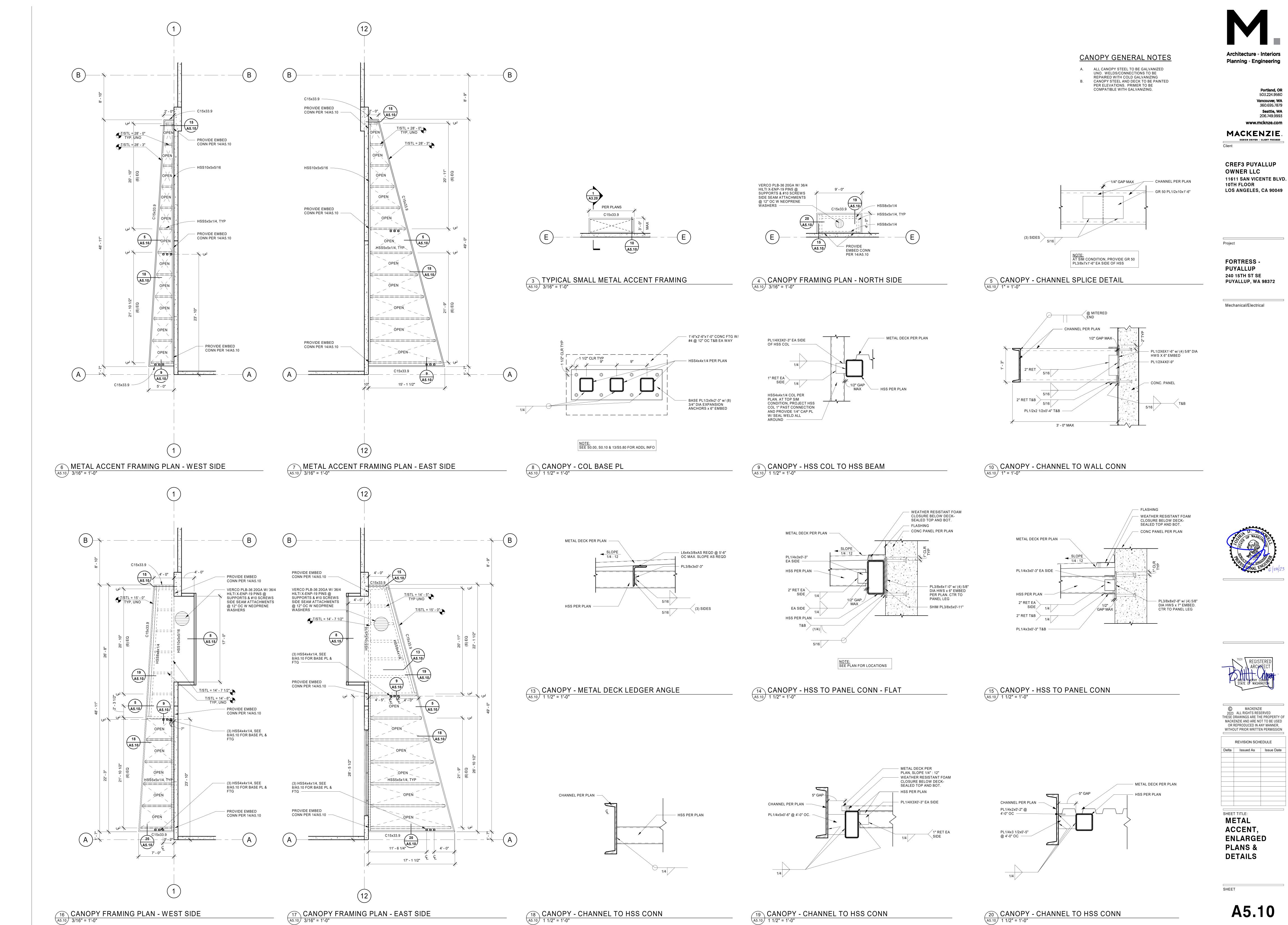
Delta Issued As Issue Date

1 PLAN CHECK 11/07/23

ENLARGED
PLANS

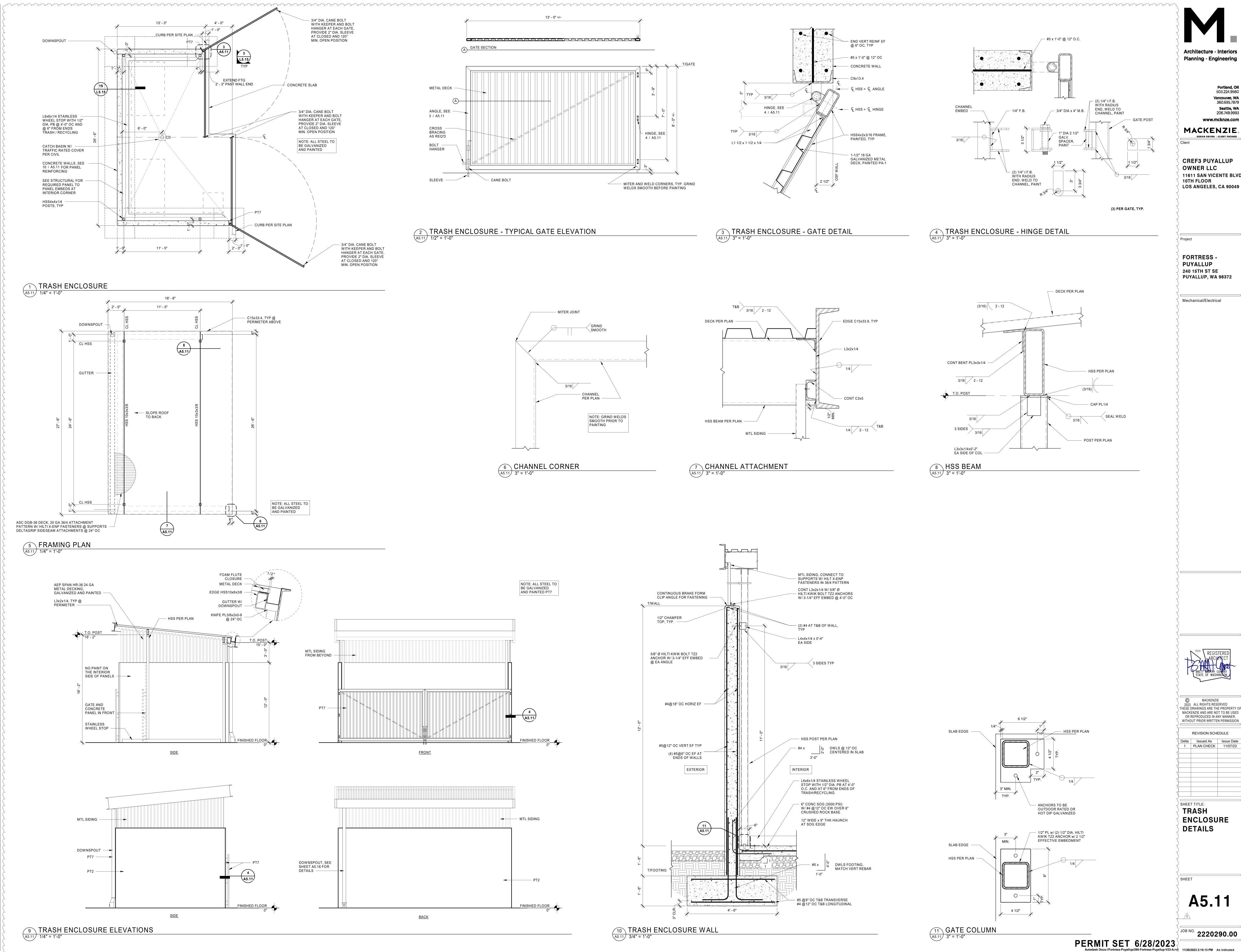
SHEET

A4.10



JOB NO. **2220290.00**3

3-A.rvt 6/28/2023 2:47:48 PM As indicated



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Seattle, WA 206.749.9993

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FORTRESS -

Mechanical/Electrical

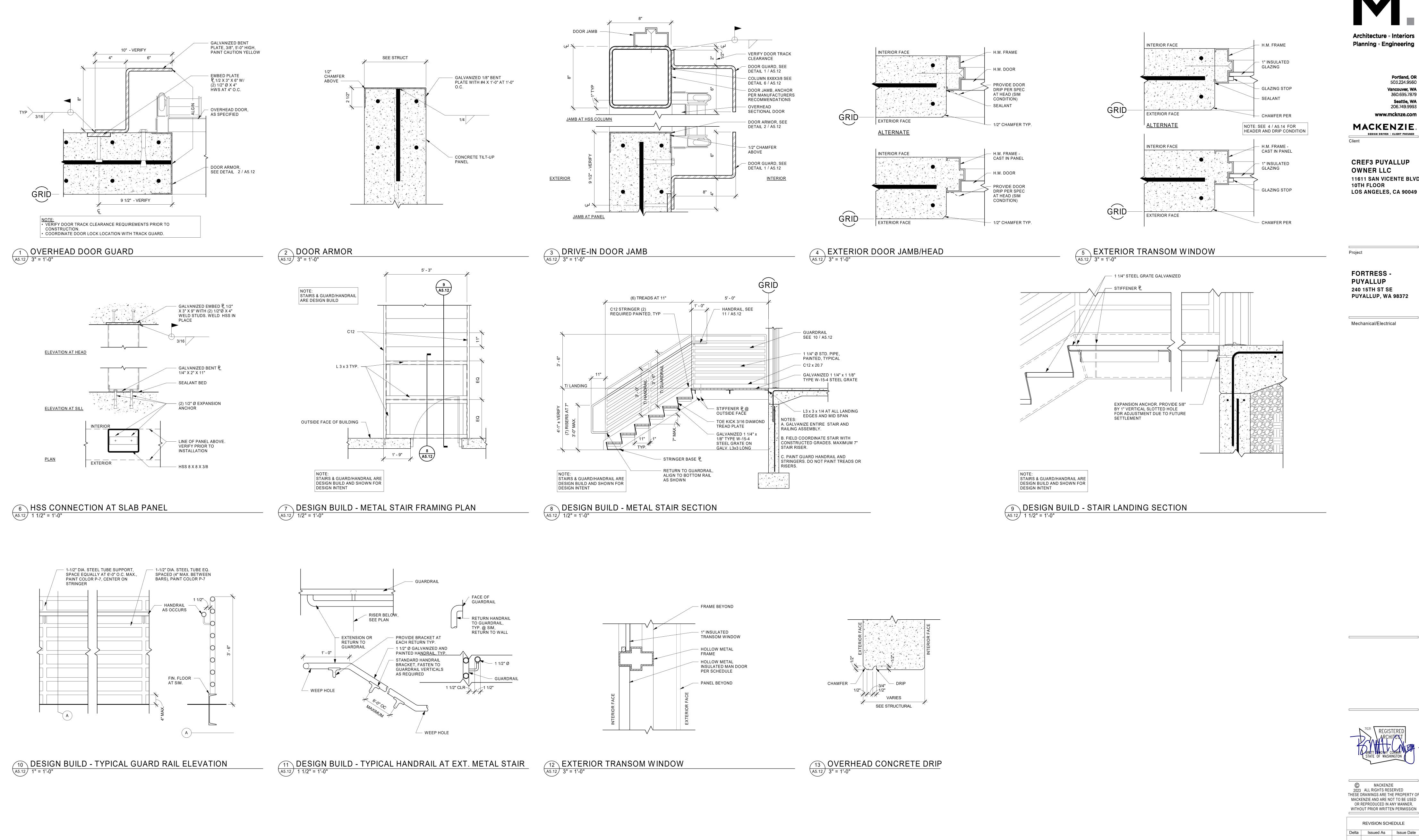
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REVISION SCHEDULE PLAN CHECK 11/07/23

SHEET TITLE:

TRASH **ENCLOSURE DETAILS**

JOB NO. 2220290.00



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Project

FORTRESS -**PUYALLUP** 240 15TH ST SE **PUYALLUP, WA 98372**

Mechanical/Electrical

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SHEET TITLE:

EXTERIOR DETAILS

SHEET

A5.12

Autodesk Docs://Fortress-Puyallup/290-Fortress-Puyallup-V23-A.rvt 6/28/2023 2:47:52 PM As indicated

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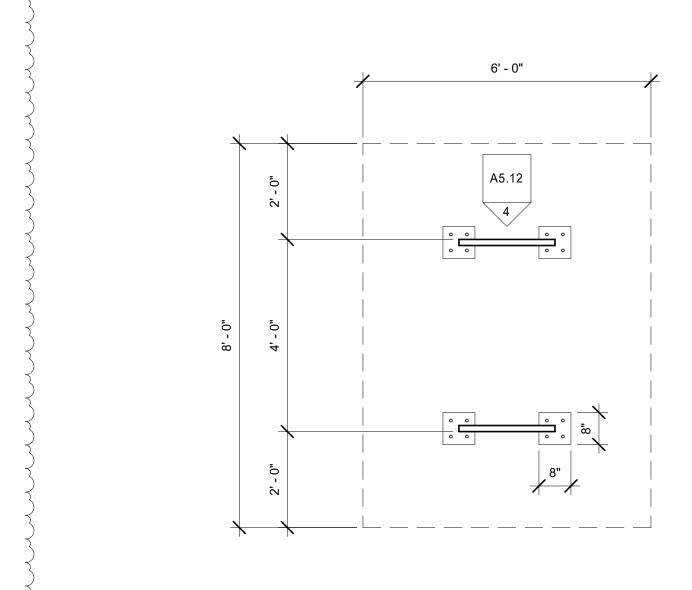
> 503.224.9560 360.695.7879 Seattle, WA 206.749.9993 www.mcknze.com

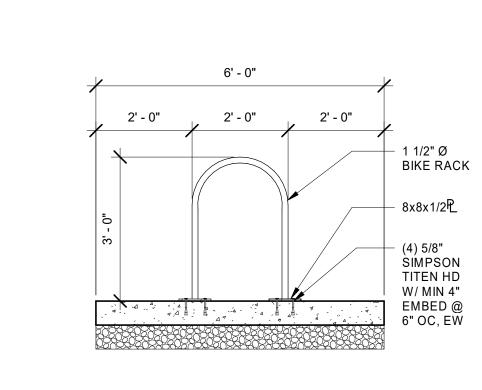
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FORTRESS -, which we will the state of th PUYALLUP 240 15TH ST SE PUYALLUP, WA 98372

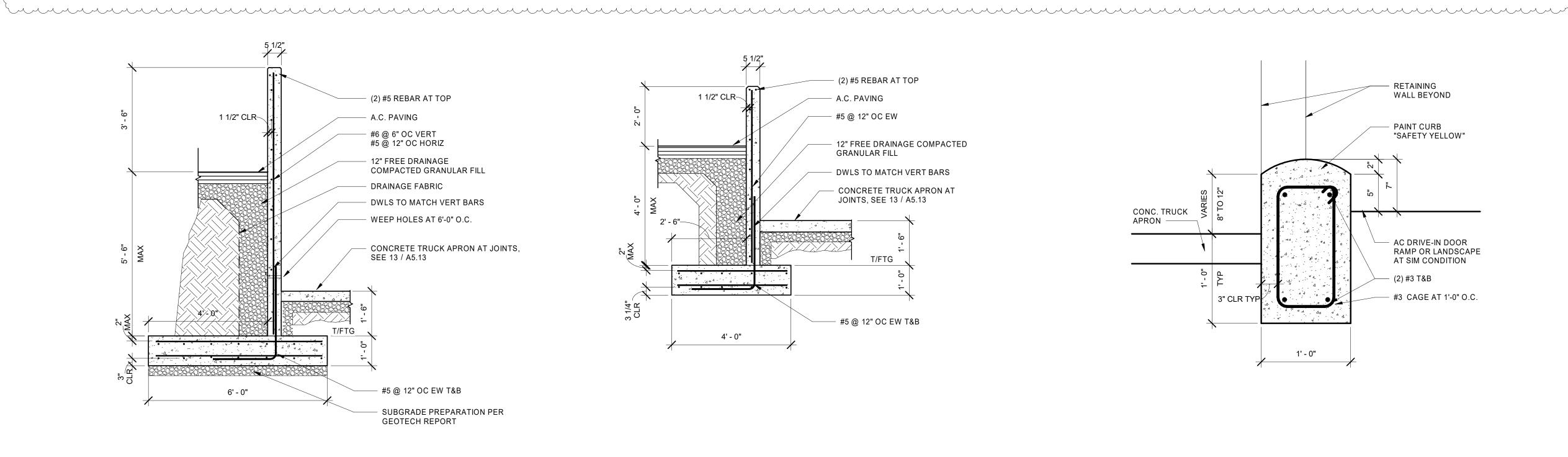
Mechanical/Electrical

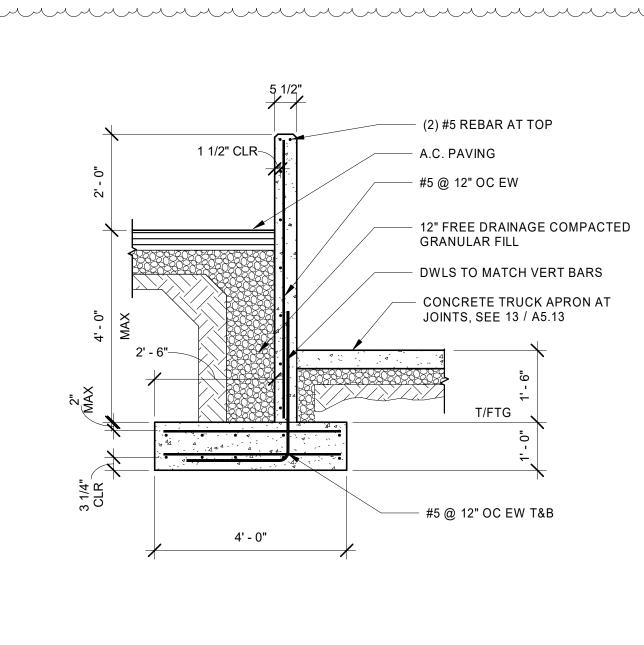


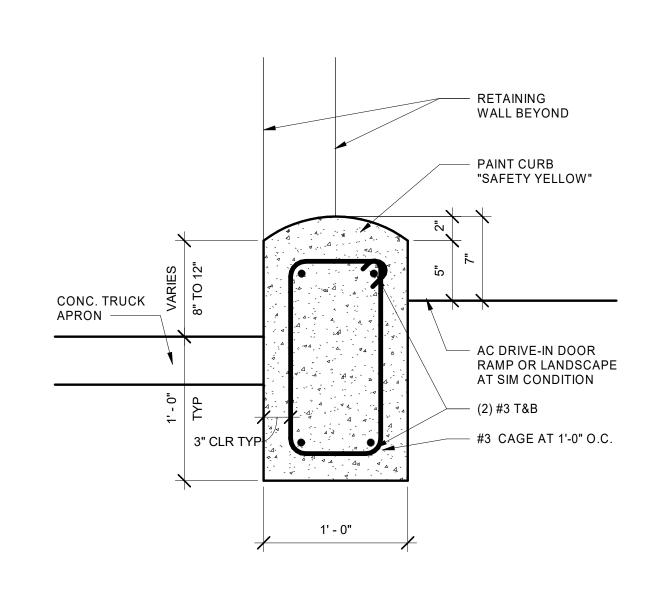


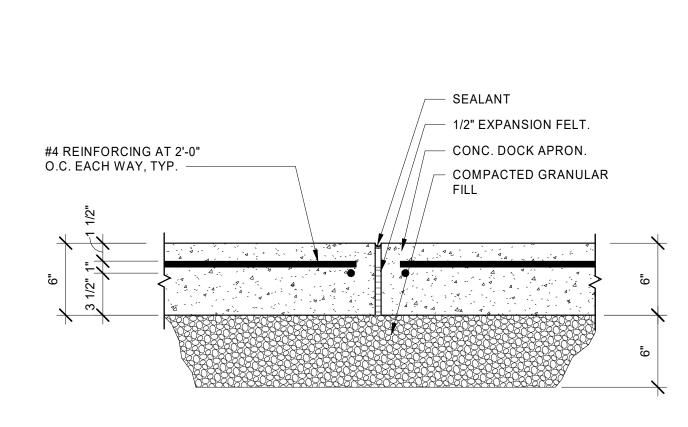
8 BIKE RACK PLAN
A5.13 1/2" = 1'-0"

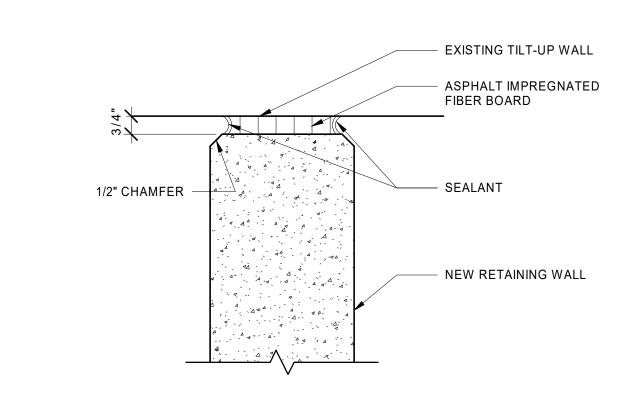
9 BIKE RACKS ELEVATION
A5.13 1/2" = 1'-0"











10 RETAINING WALL SECTION
A5.13 1/2" = 1'-0"

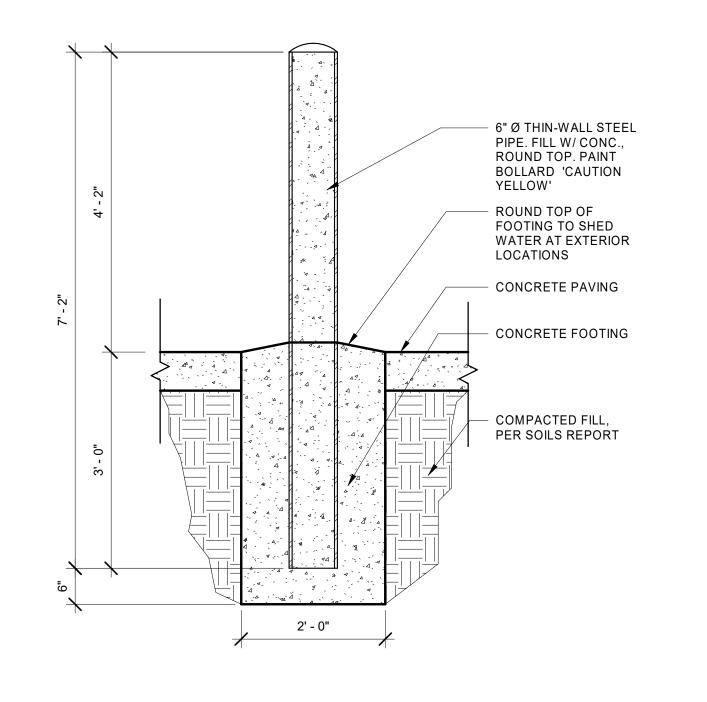
15 BOLLARD A5.13 3/4" = 1'-0"

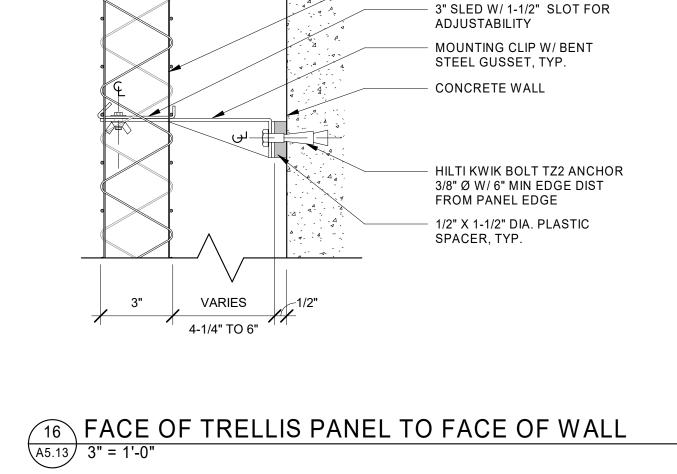
11 RETAINING WALL SECTION

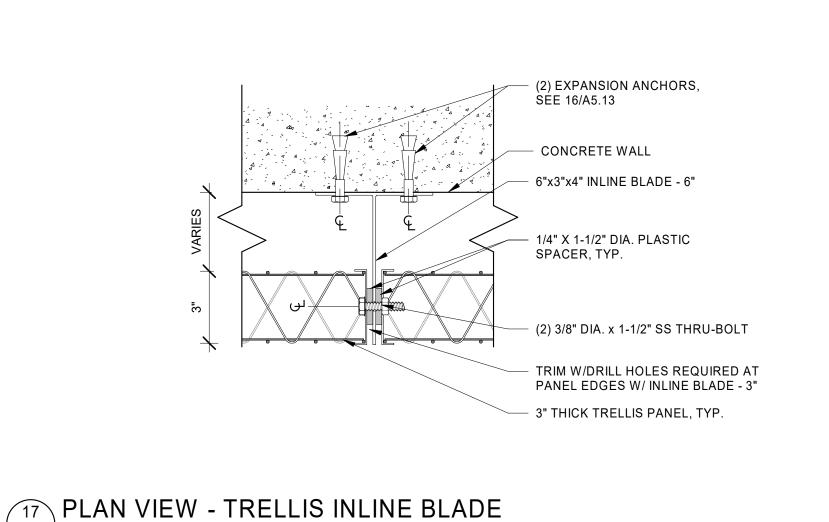
- 3" THICK TRELLIS PANEL, TYP.

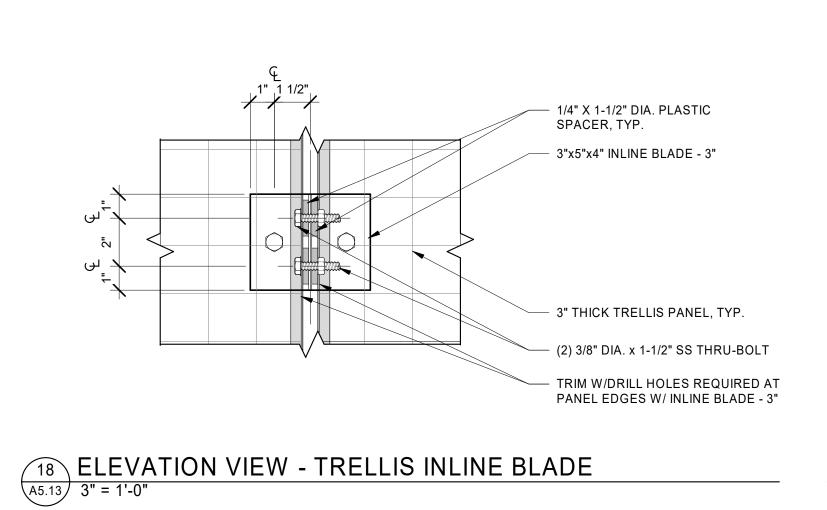
12 MOUNTABLE CURB 13 DOCK APRON JOINT

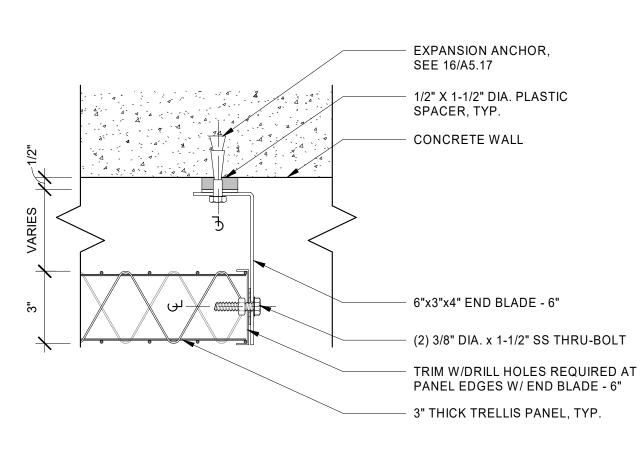
(14) RETAINING WALL JOINT











19 PLAN VIEW - TRELLIS PANEL END BLADE
A5.13 3" = 1'-0"

SHEET A5.13

SHEET TITLE:

EXTERIOR

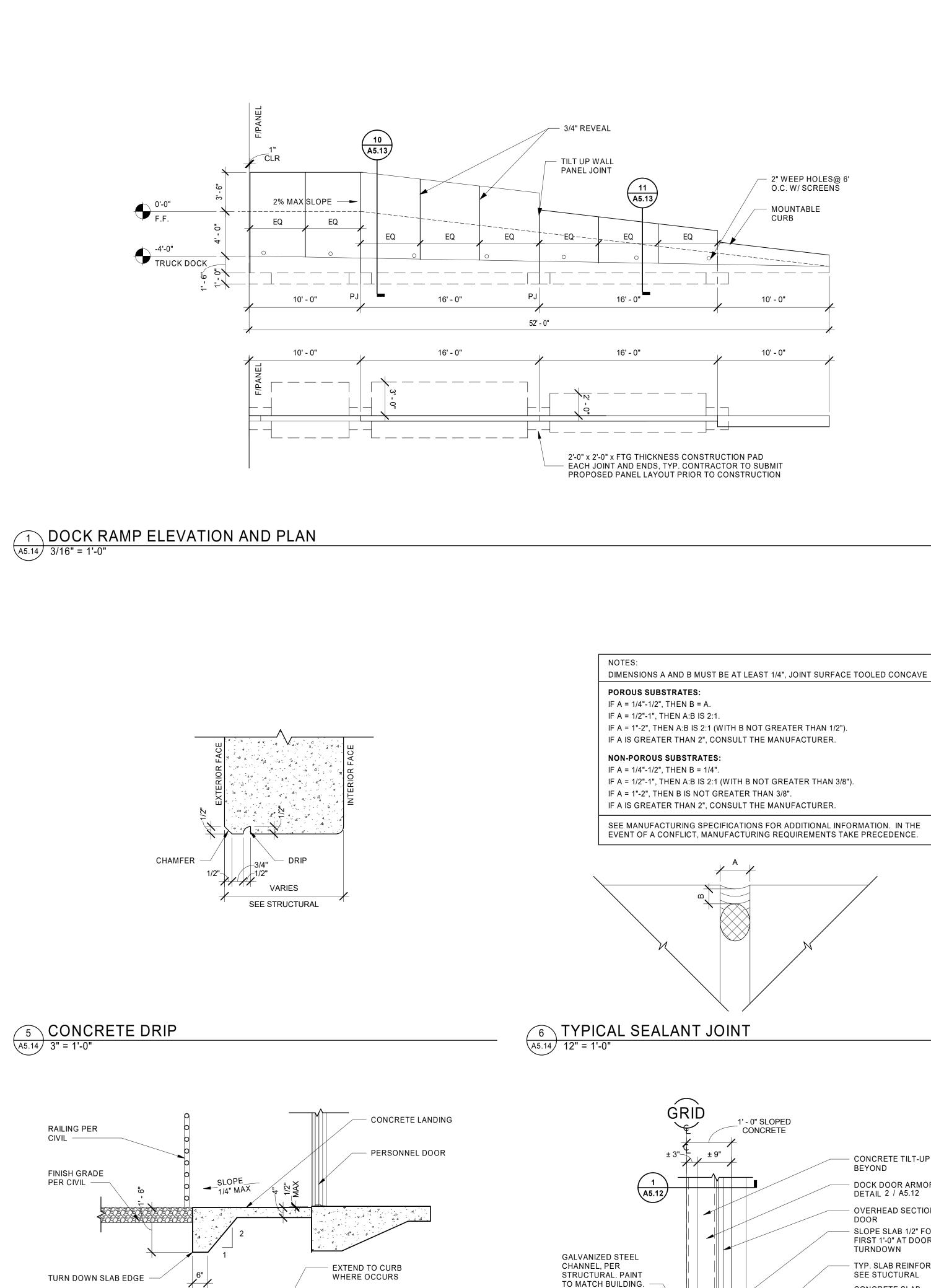
DETAILS

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1 PLAN CHECK 11/07/23



12' - 0" A.F.F. B/FRAMING

5'-0"

Provide design build plans reviewed by the engineer of record on site for inspection.

Special inspection is required on anchors unless engineer address exclusion. (typical).

CONTINUOUS SEALANT

SURFACE MOUNTED REGLET

SEALANT TOP AND BOTTOM

FIELD NOTCH AND TURN

COLOR TO MATCH PX

DOWN FLASHING

4' - 0"

POLYETHYLENE CLOSURE SET IN

ENDWALL FLASHING LAP 6" MIN OVER ROOF

CORRUGATED METAL BY AEP (SPAN NU-WAVE PROFILE) OR APPROVED EQUAL.

EQ. SPACED -

(3) 1-1/2" HAT CHANNELS,

DOCK CANOPY SECTION

A5.14 1" = 1'-0"

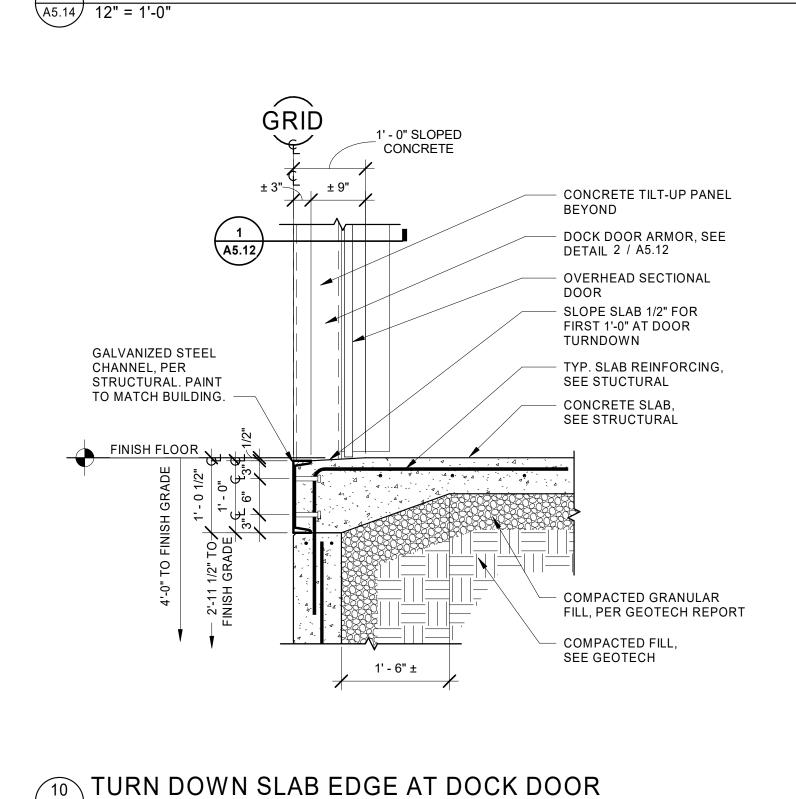
NOTE: LOADING DOCK

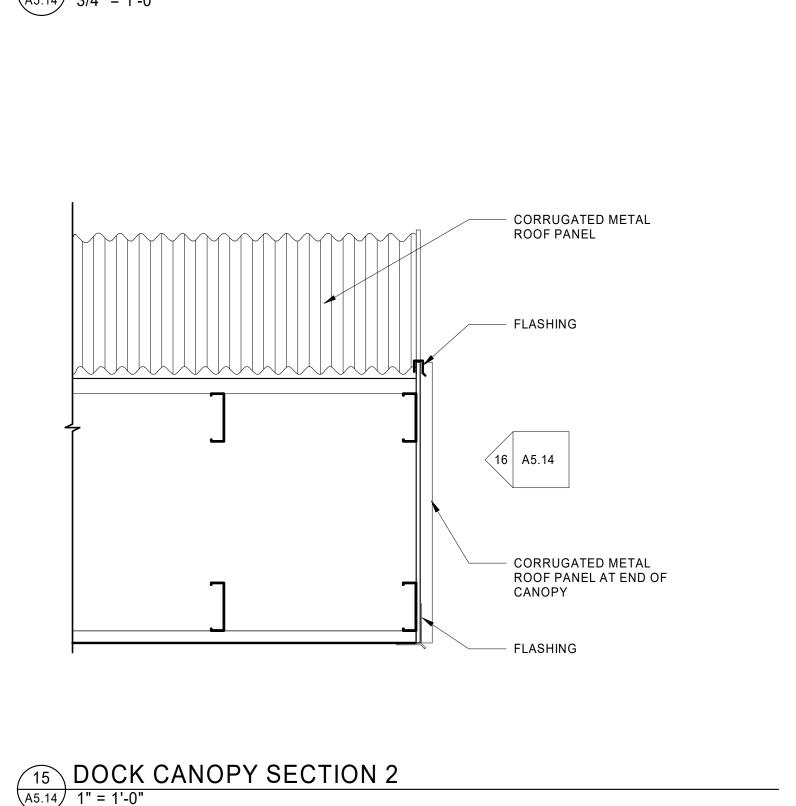
END FLASHING

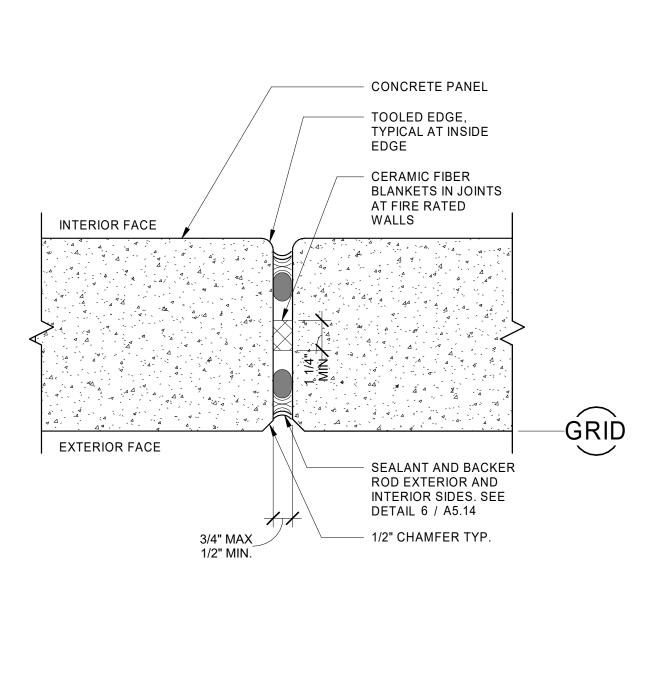
CANOPIES AND CONNECTION TO

STRUCTURE ARE DESIGN-BUILD

9 LANDING







OVERHEAD DOOR GUARD,

SEE DETAIL 2 / A5.12

OVERHEAD SECTIONAL

SLOPE SLAB 1/2" FOR

TYP. SLAB REINFORCING,

- COMPACTED GRANULAR

12' - 0" A.F.F. B/FRAMING

FIRST 1'-0" AT DOOR

TURNDOWN

SEE STUCTURAL

CONCRETE SLAB,

SEE STRUCTURAL

FILL, PER GEOTECH

2 END TO END CONNECTION
A5.14 3" = 1'-0"

DOOR -

GALVANIZED STEEL

CONC. SIDEWALK

OR A.C. PAVING -

ANGLE, SEE STRUCT

11 TURN DOWN SLAB EDGE AT DRIVE IN DOOR

CORRUGATED METAL ROOF

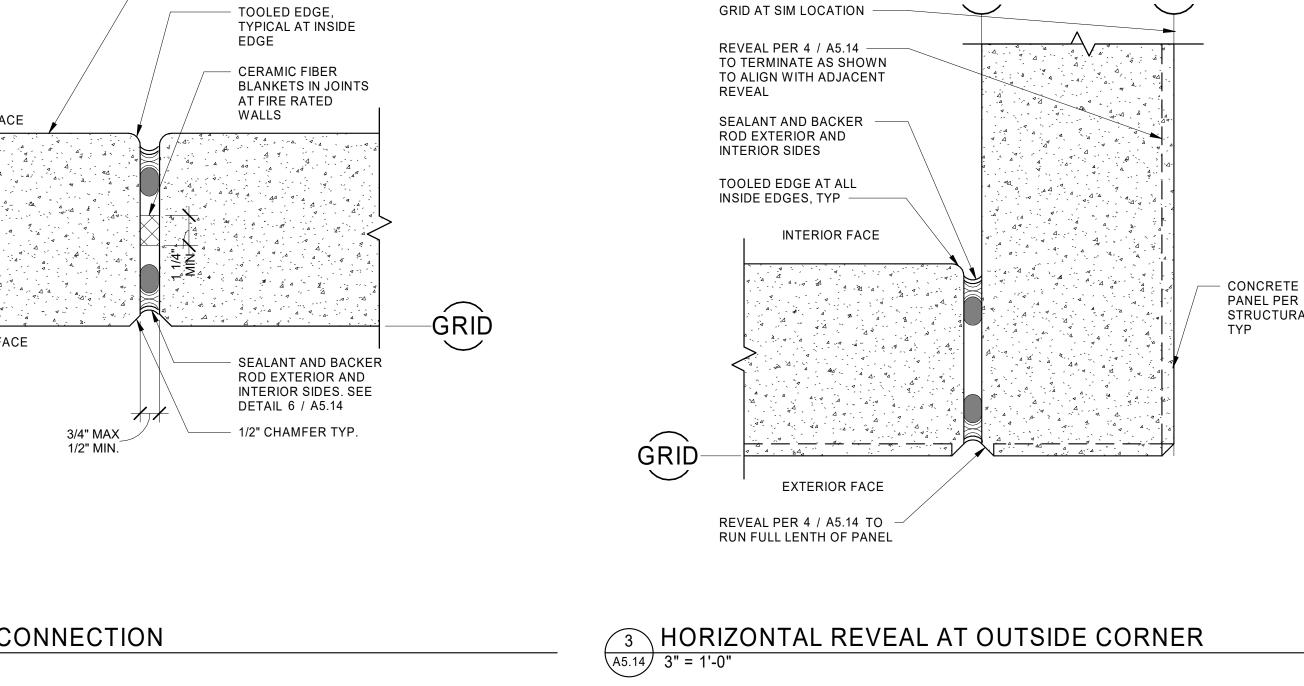
16 DOCK CANOPY ELEVATION

FLASHING -

4' - 0"

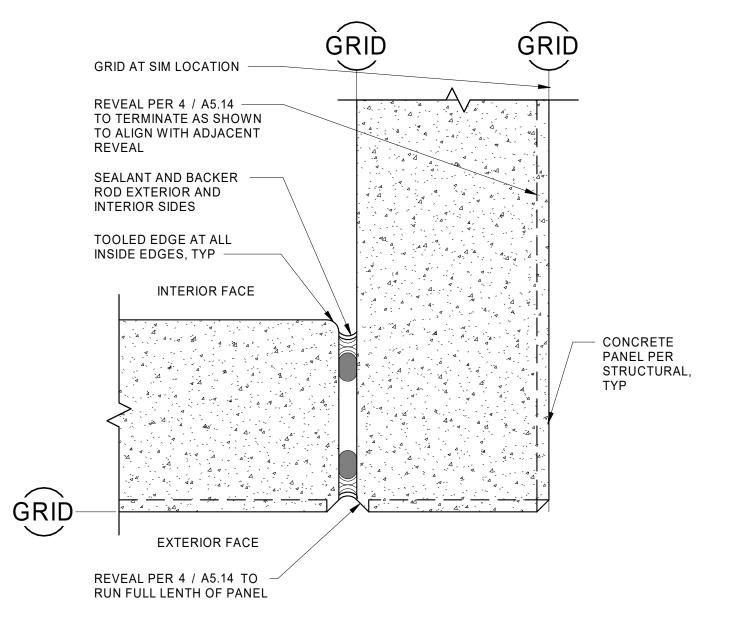
PANEL PER 14 / A5.14—

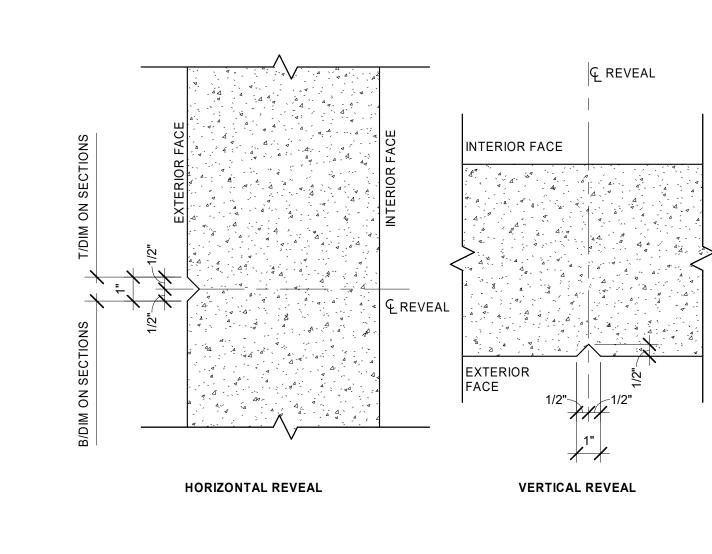
END FLASHING -



DOOR -

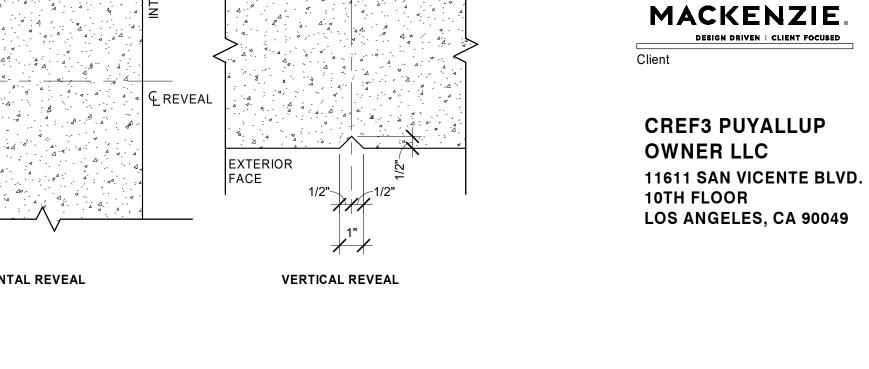
12 TURN DOWN AT PERSONNEL DOOR

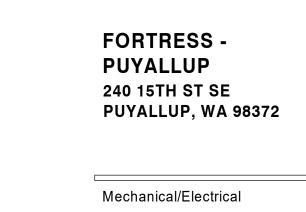




4 TYPICAL CONCRETE REVEAL

A5.14 3" = 1'-0"





Project

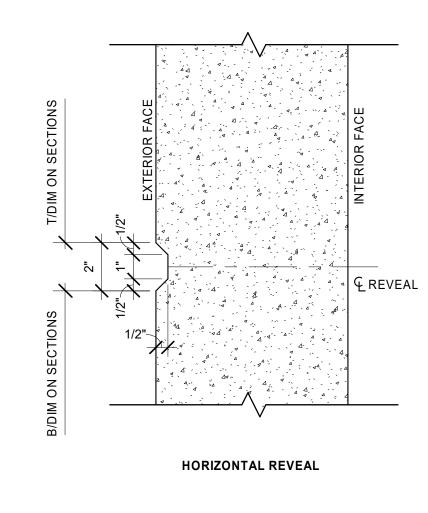
Planning - Engineering

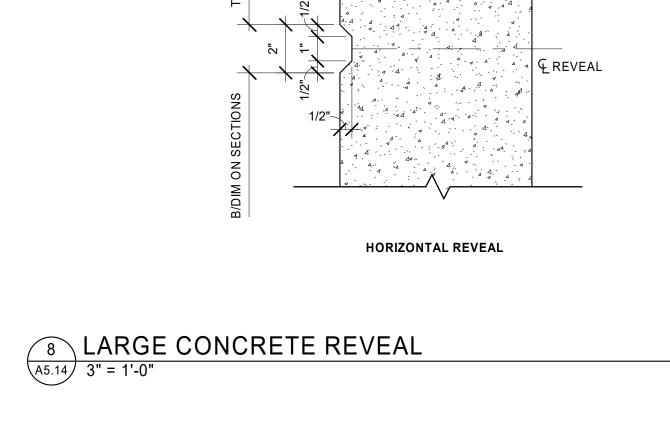
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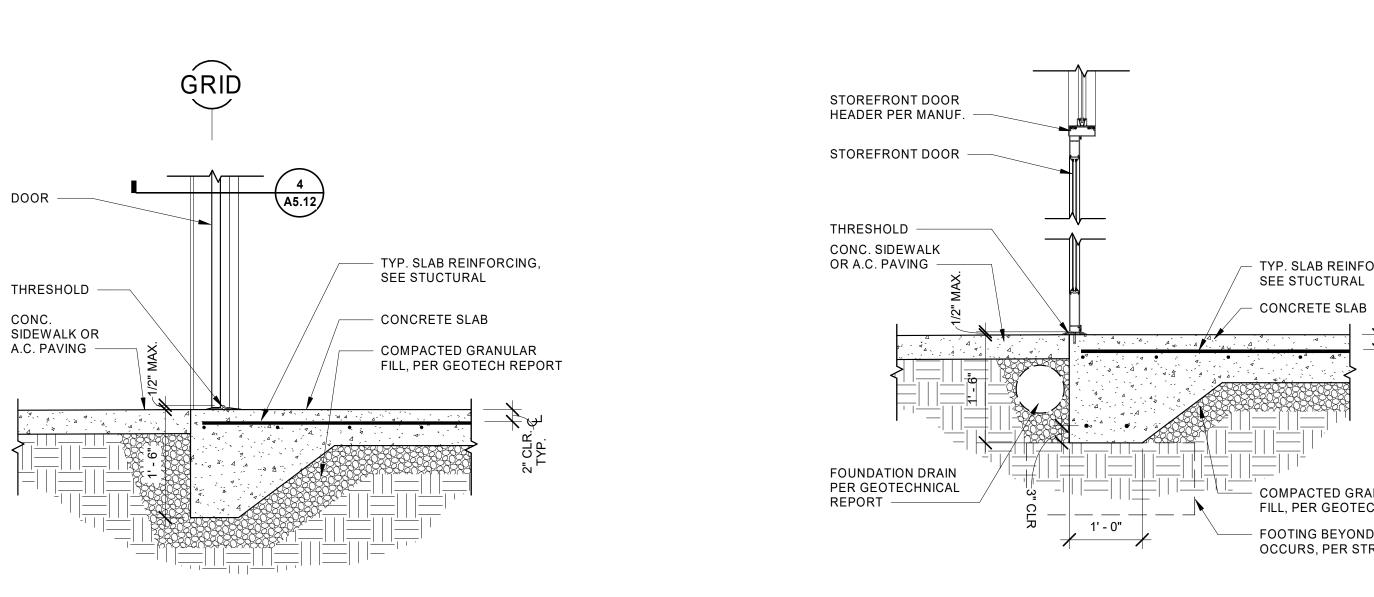
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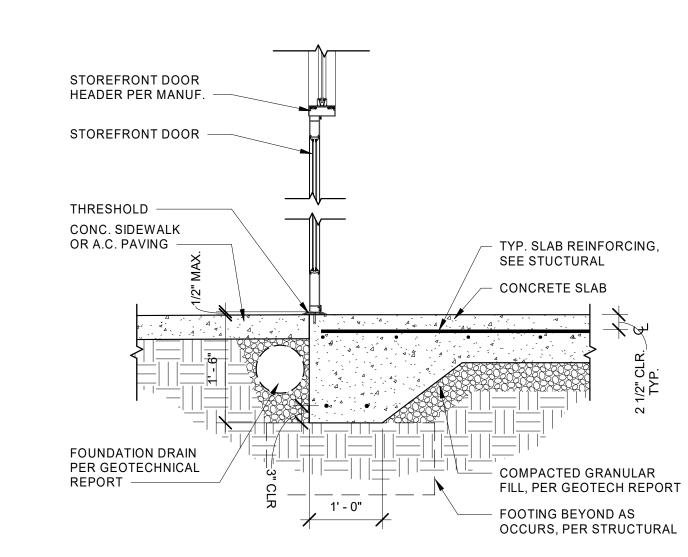
Seattle, WA 206.749.9993

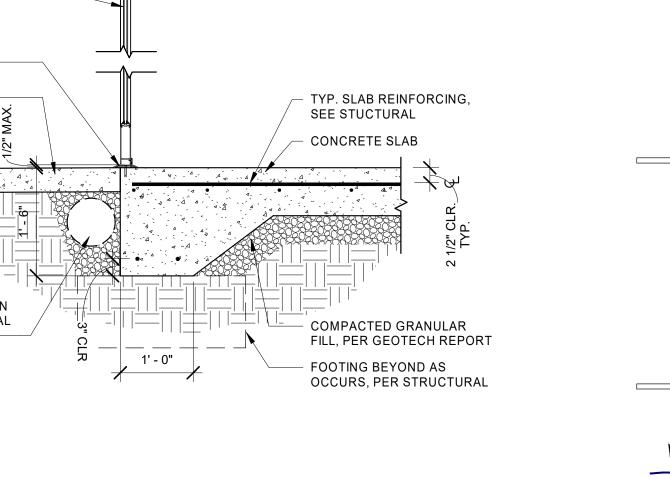
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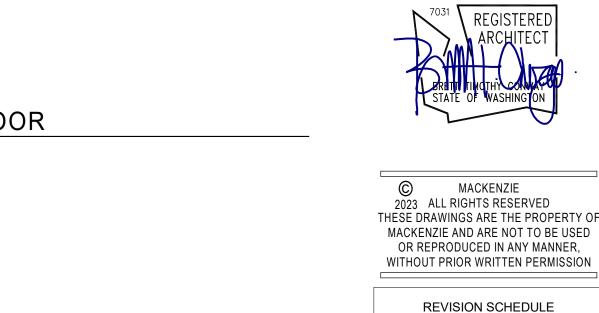


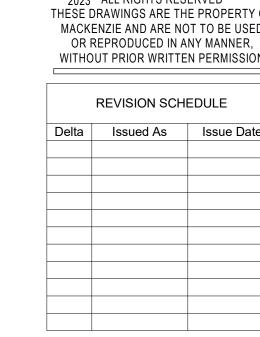










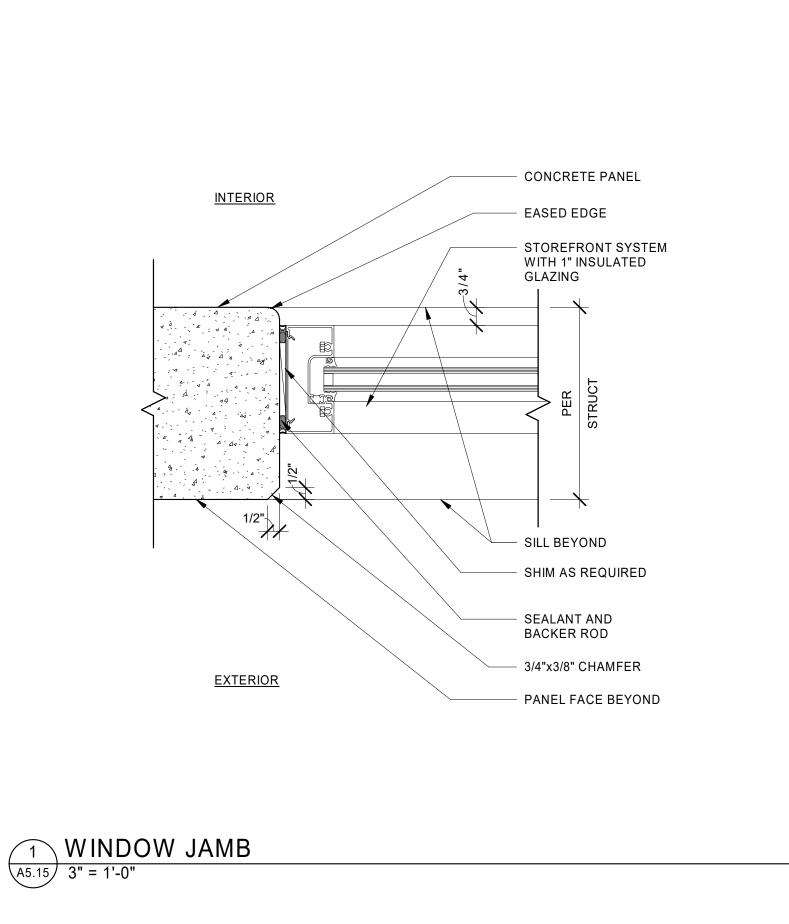


SHEET TITLE: **EXTERIOR DETAILS**

SHEET

A5.14

JOB NO. **2220290.00 PERMIT SET 6/28/2023**



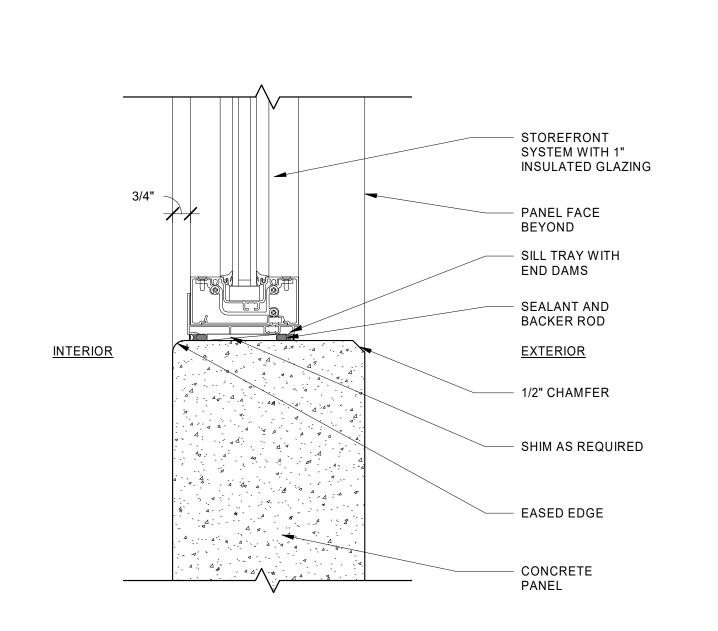
<u>INTERIOR</u>

EXTERIOR

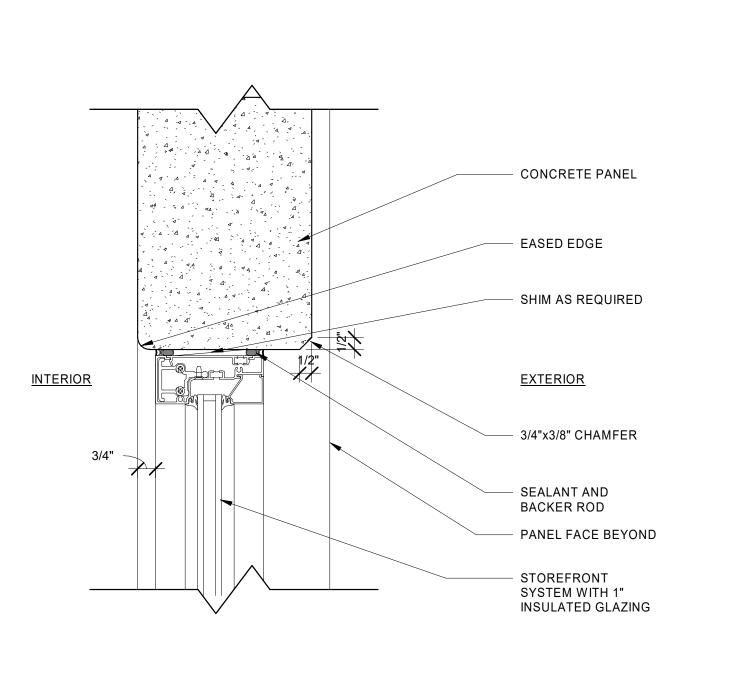
6 STOREFRONT CORNER PLAN
A5.15 3" = 1'-0"

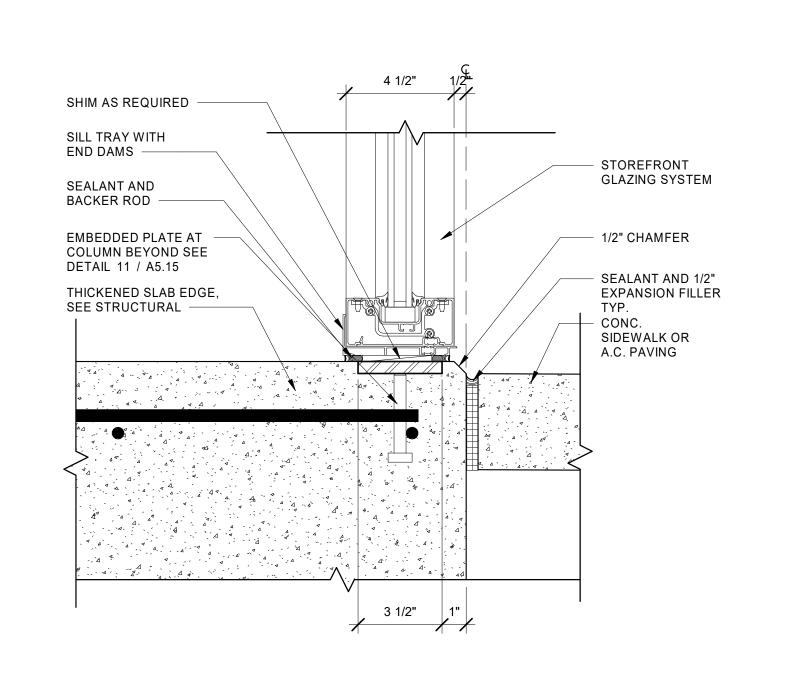
L4x4x5/16 KICKER AT TOP OF POST

10 STOREFRONT COLUMN CAP
A5.15 3" = 1'-0"

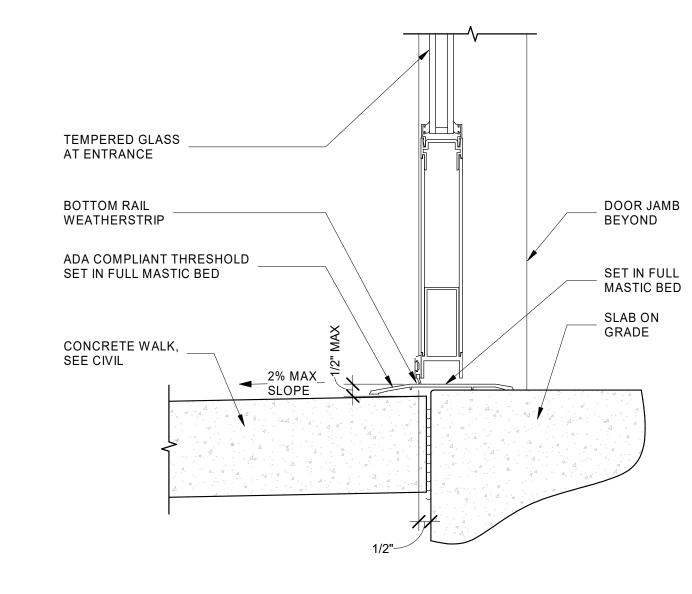


2 WINDOW SILL A5.15 3" = 1'-0"

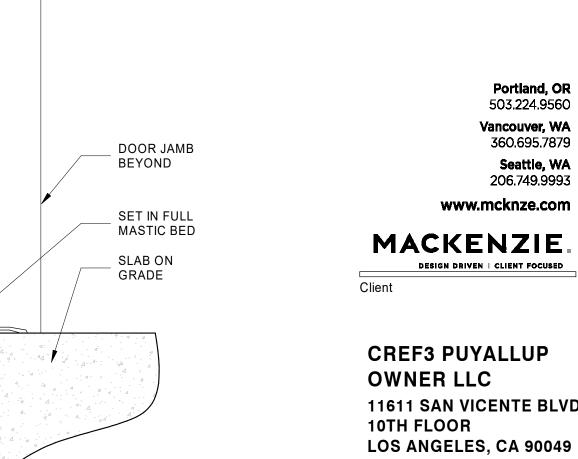




4 STOREFRONT SILL @ ENTRY
A5.15 3" = 1'-0"



5 STOREFRONT DOOR SILL
A5.15 3" = 1'-0"



- 6" STUD FRAMING

BARRIER

- R-13 BATT INSULATION

- EXTERIOR GYP. SHEATHING

- FLUID APPLIED WEATHER

HSS6x5x5/16 HEADER

BLOCKING AS REQUIRED

____ 5/8" GYPSUM BOARD

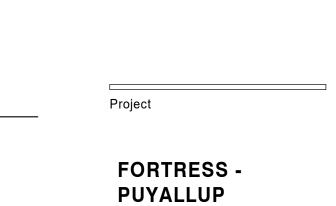


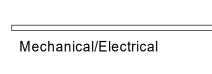
Architecture - Interiors

Planning - Engineering

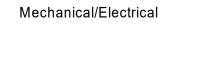
Portland, OR 503.224.9560

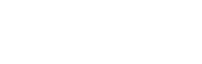
Seattle, WA 206.749.9993



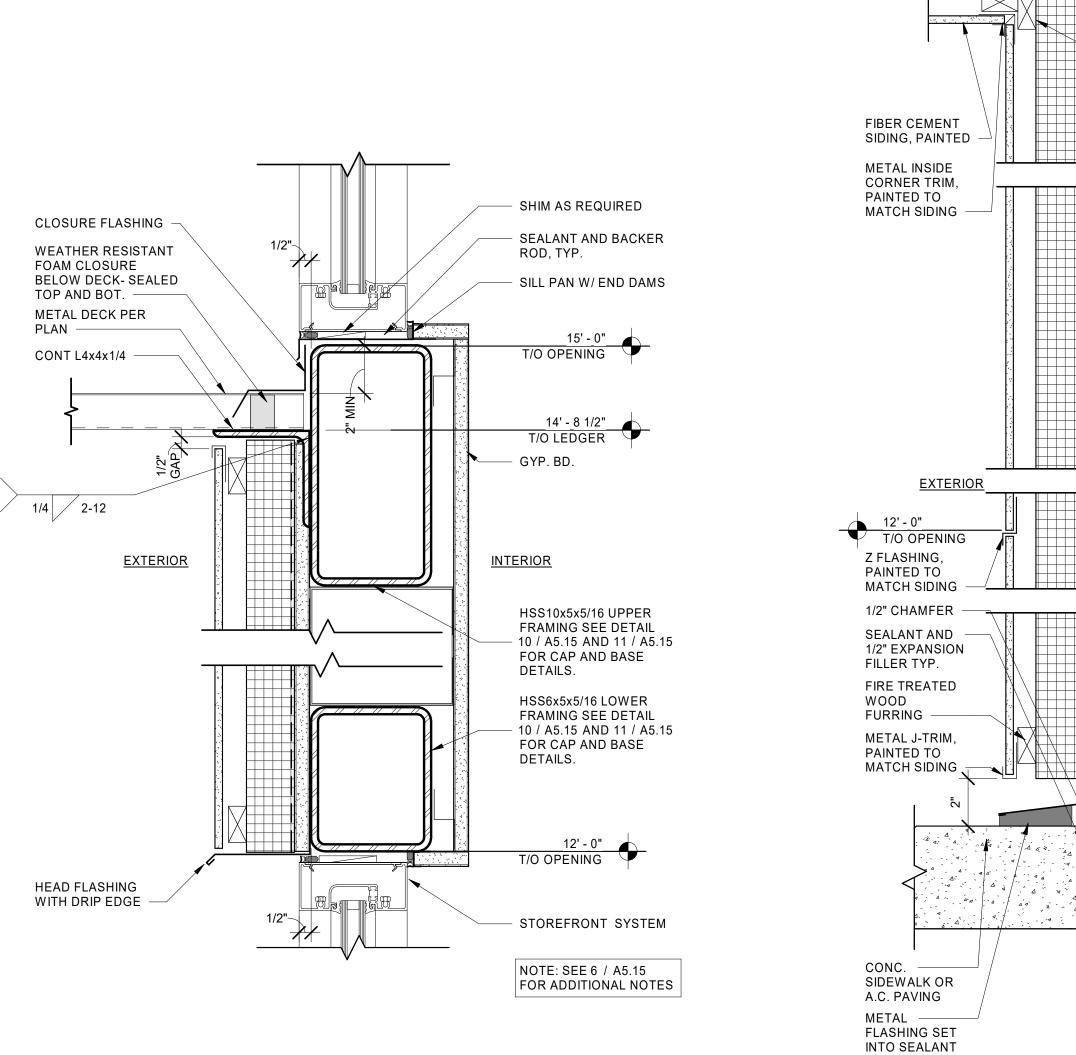


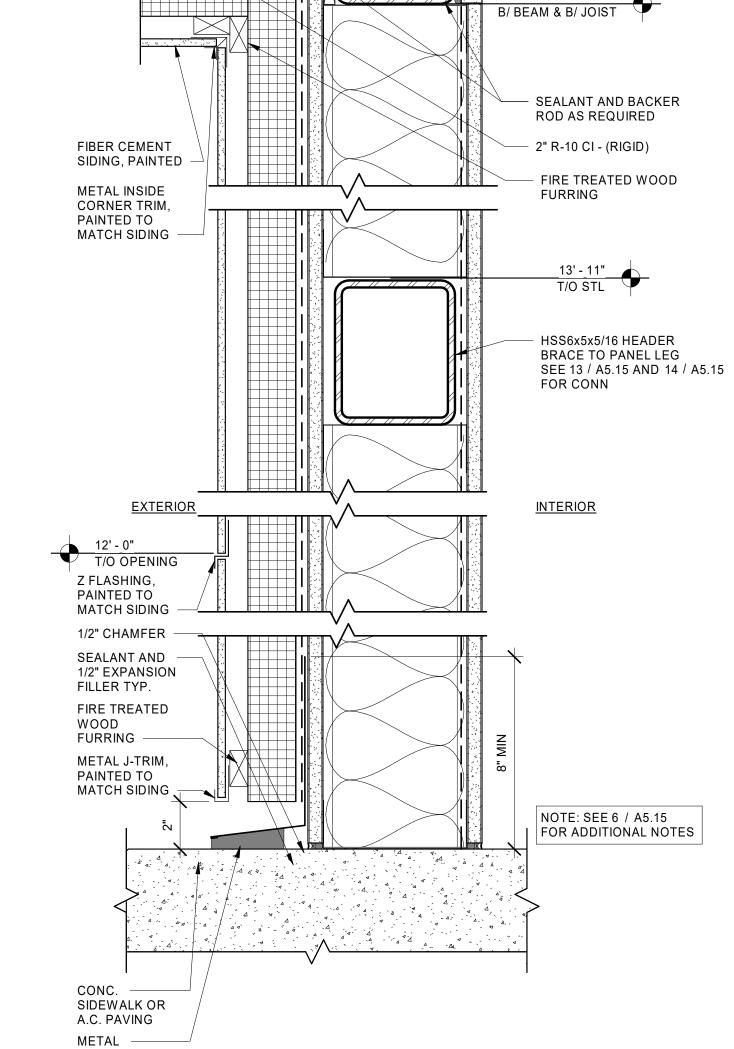
PUYALLUP, WA 98372

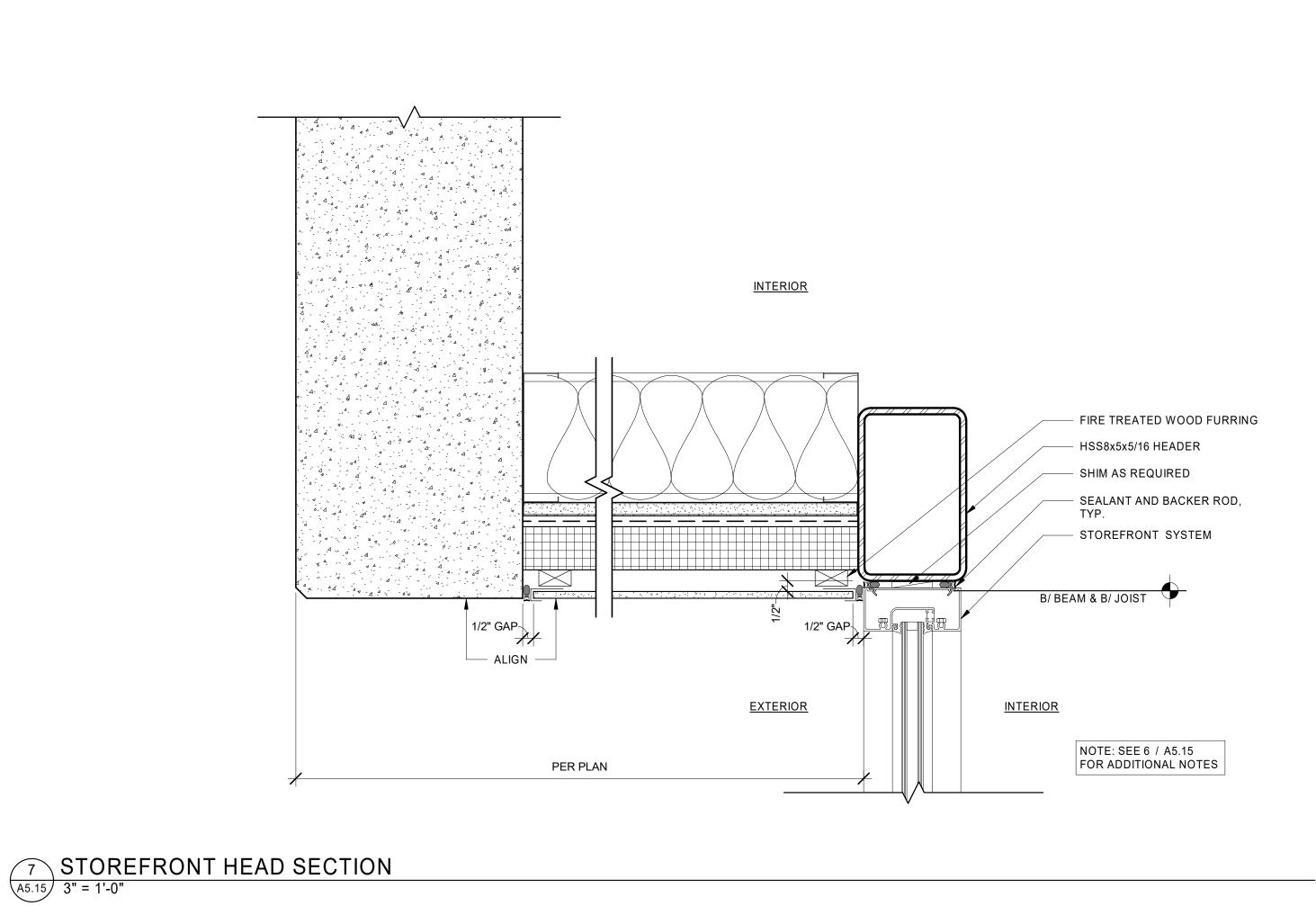




240 15TH ST SE

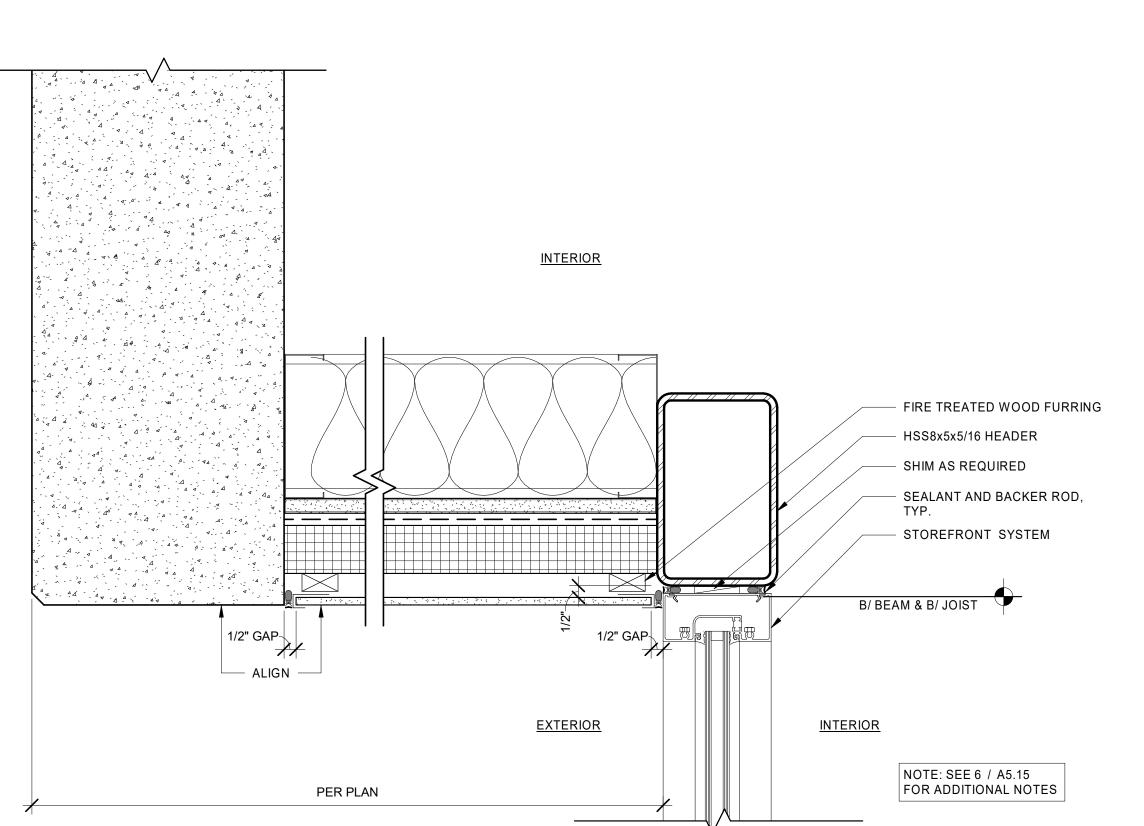


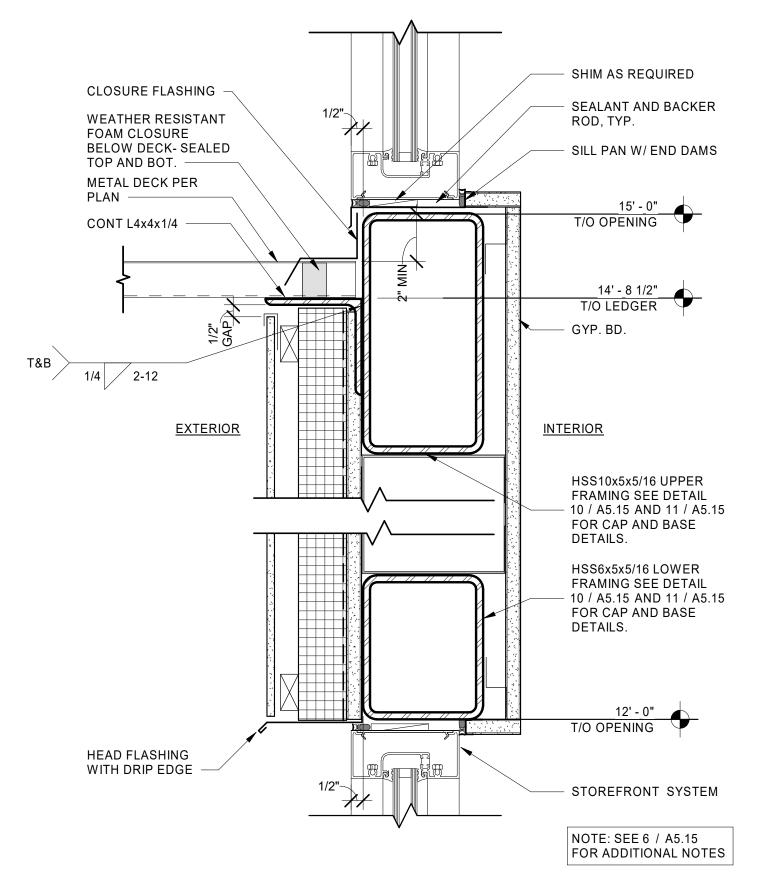




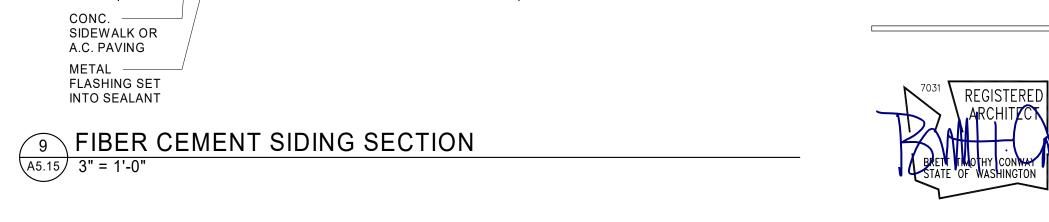
3 WINDOW HEAD

A5.15) 3" = 1'-0"





8 STOREFRONT HEAD & SILL SECTION
A5.15 3" = 1'-0"

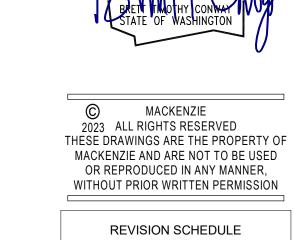


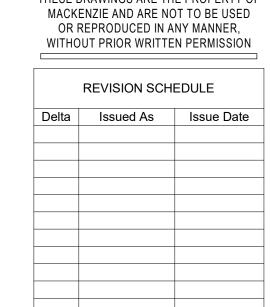
HSS5x5x5/16

PL3/8x3x0'-3"

L3x3x5/16x0'-5" W/ STIFF PL5/16 AT CTR OF ANGLE







SHEET TITLE:

STOREFRONT **AND ENTRY DETAILS**

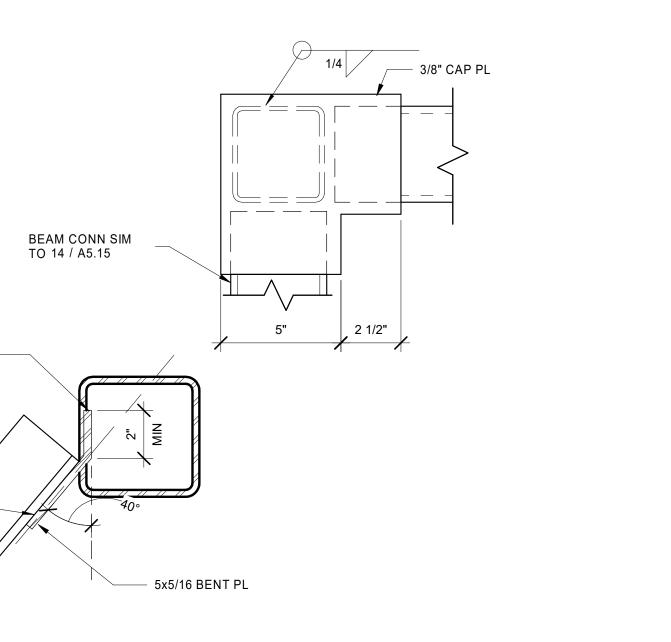
SHEET

A5.15



HSS BEAM

(3) SIDES 1/4



STOREFRONT SYSTEM.

OPPOSITE AT SIM

BRAKE METAL ALL (4)

SIDES. FINISH TO MATCH

HSS5x5x5/16 SEE DETAIL 10/A5.15 AND 11/A5.15 FOR

BASE AND CAP DETAILS.

CONDITION

STOREFRONT

<u>INTERIOR</u>

- VAPOR BARRIER

BARRIER

- 6" STUD FRAMING

2" R-10 CI - (RIGID)

MATCH SIDING

R-13 BATT INSULATION

- EXTERIOR GYP. SHEATHING

FIRE TREATED WOOD FURRING

METAL J-TRIM, PAINTED TO

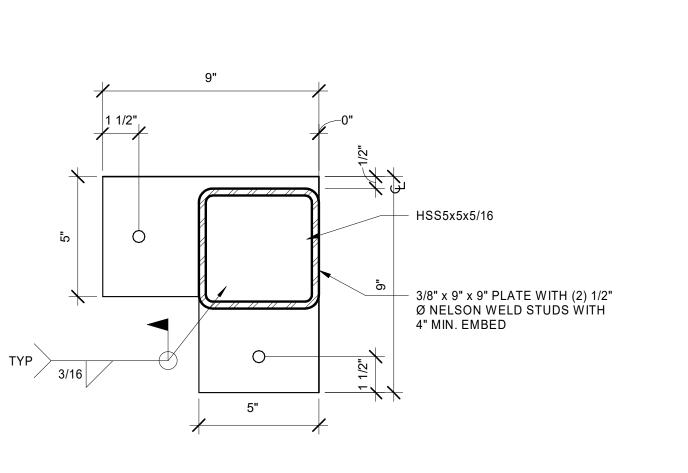
SEALANT AND BACKER ROD,

FIBER CEMENT SIDING,

FLUID APPLIED WEATHER

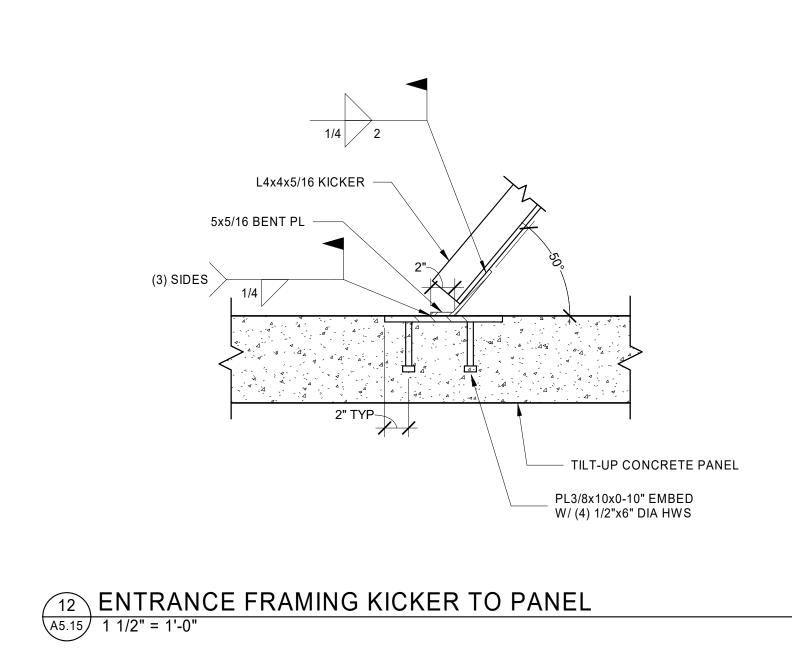
- 5/8" GYPSUM BOARD

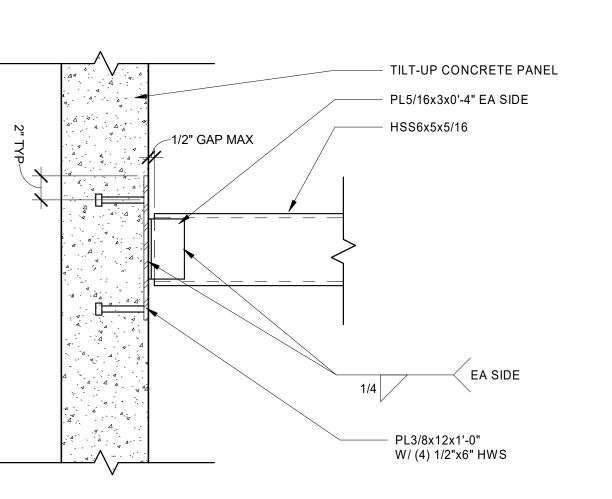
˙Ч╊╺╫╪╪╪╃╠╣╫*╺╸╾╱╸╸╸╸*╢



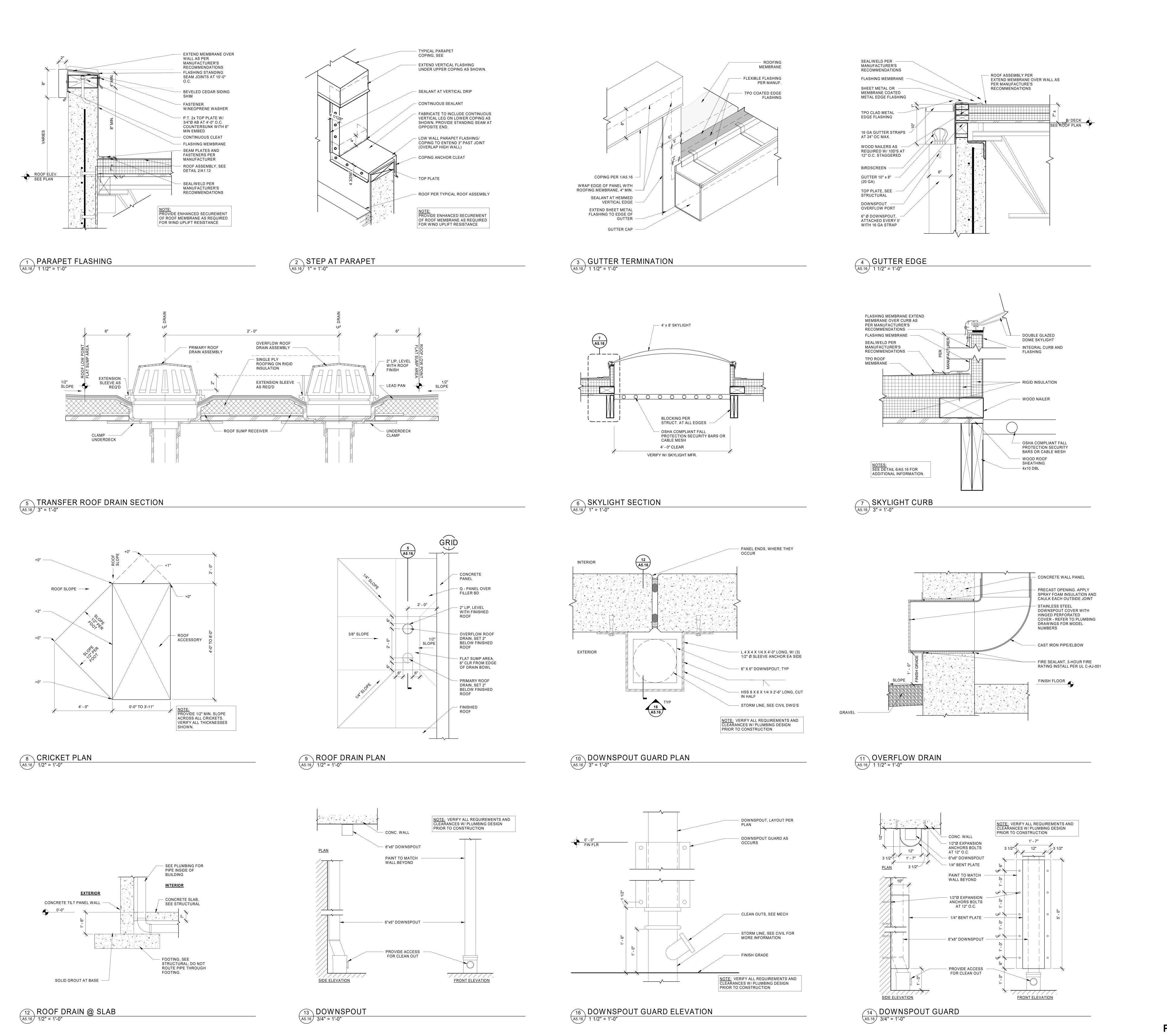
STOREFRONT COLUMN BASE

A5.15 3" = 1'-0"





13 HSS TO PANEL CONN	FCTION	
A5.15) 1 1/2" = 1'-0"	2011011	



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Project

FORTRESS -**PUYALLUP** 240 15TH ST SE PUYALLUP, WA 98372

Mechanical/Electrical

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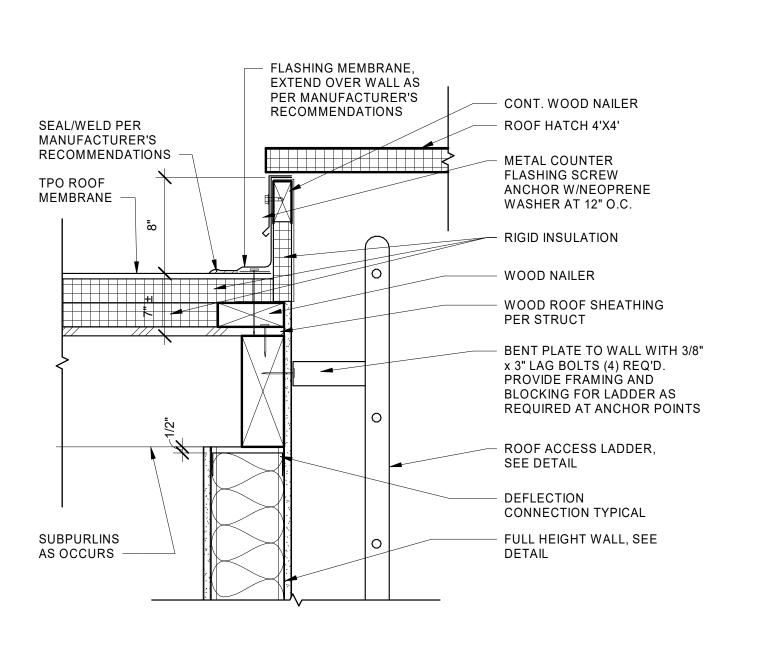
ROOF DETAILS

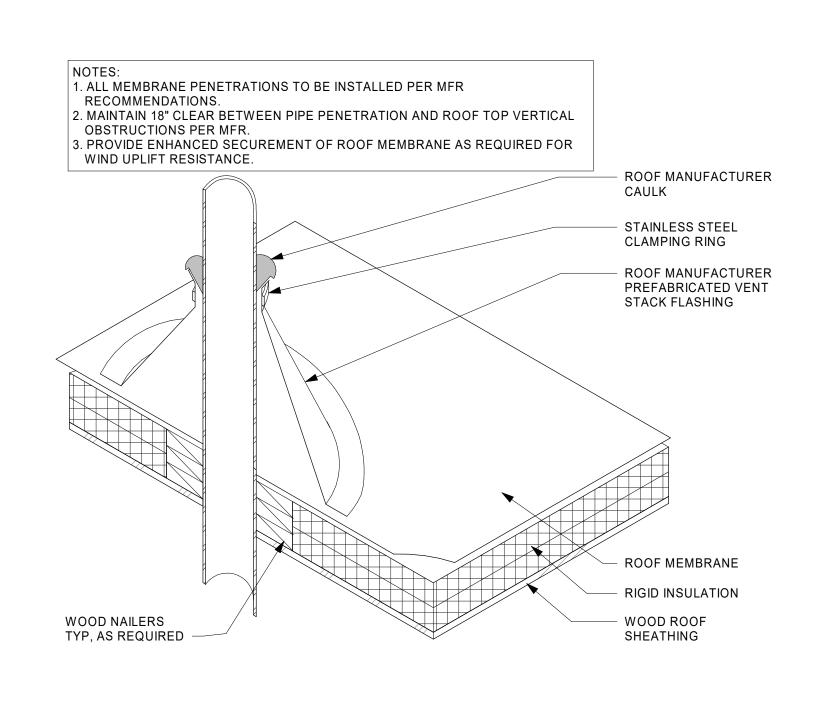
A5.16

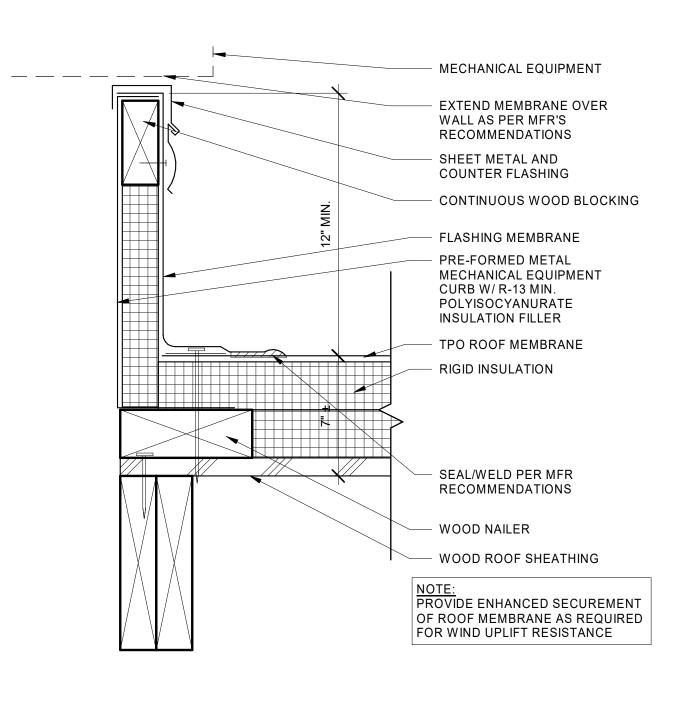
SHEET

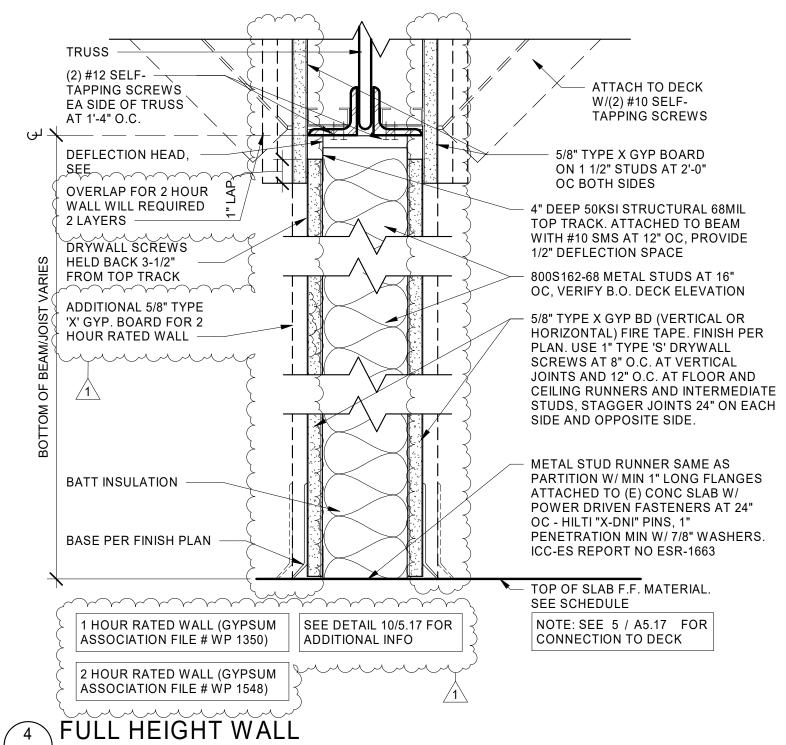
JOB NO. **2220290.00**

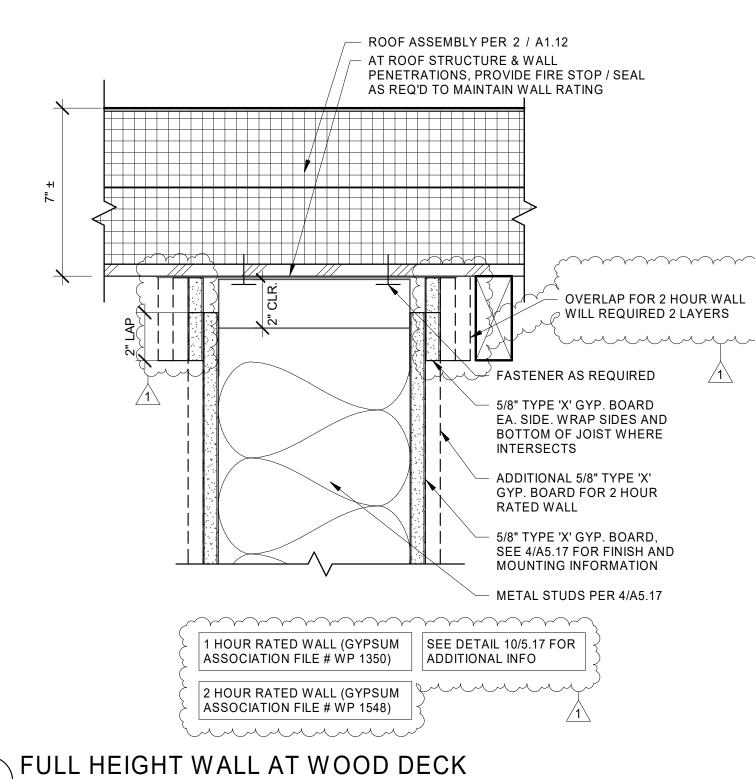
PERMIT SET 6/28/2023









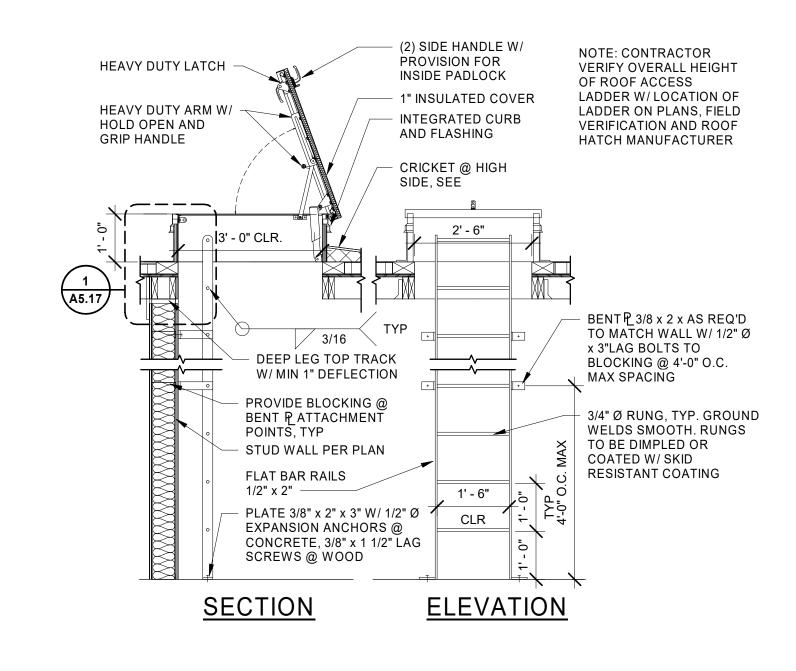


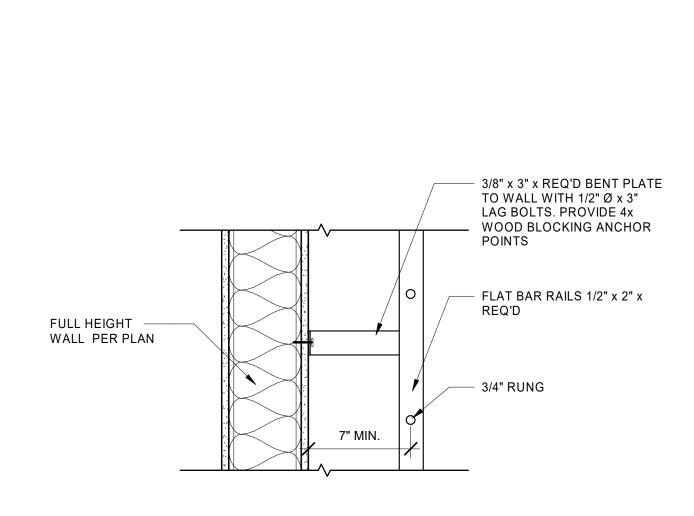
1 ROOF HATCH (A5.17) 1 1/2" = 1'-0"

PIPE/CONDUIT FLASHING
A5.17 1 1/2" = 1'-0"

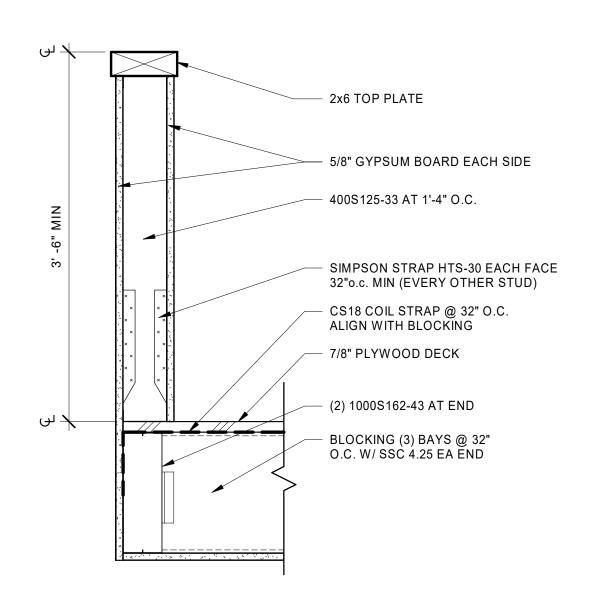
3 MECHANICAL CURB

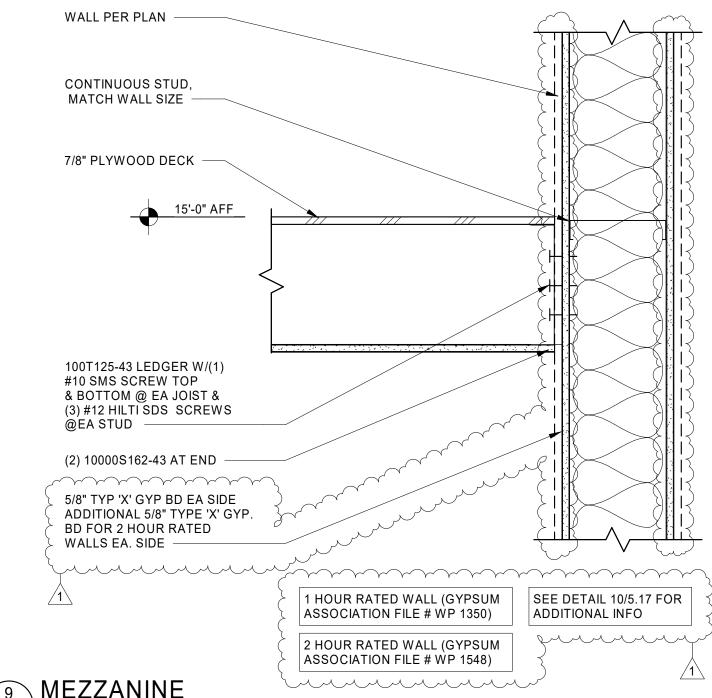
5 FULL HEIGHT WALL AT WOOD DECK





The transformation and the transformation that the transformation and the transformation that the transformation and the transformation to the transformat





6 ROOF ACCESS LADDER

10 GA FILE NO.

ACCESS LADDER SECTION

8 RAILING SECTION

9 MEZZANINE

GA FILE NO. 1 HOUR GENERIC WP 1350 FIRE GYPSUM WALLBOARD, STEEL STUDS Fire Design: One layer 5/8" type X gypsum wallboard or gypsum veneer base applied parallel or at right angles to each side of 3-5/8", 18 mil steel studs 24" o.c. with 1" Type S screws 8" o.c. at vertical joints and 12" o.c. at floor and ceiling runners and intermediate studs. Joints staggered 24" on opposite sides. (NLB) 4-7/8" (Fire) Thickness: Approx. Weight: 6 psf (Fire) FM WP-45, 6-19-68, Fire Test: OSU T-1770, 8-61, ULC 79T484, 79T500, 79T497, 8-12-81, ULC Design W415

GA FILE NO. WP 1548 GENERIC		2 HOUR FIRE	R	50 to 54 STC SOUND	
steel studs 24" o.c. with 1" Type type X gypsum wallboard or gyp	allboard or gypsum veneer base es to each side of 2-1/2", 18 mil S screws 24" o.c. Face layer 5/8" sum veneer base applied parallel				
or at right angles to each side was Joints staggered 24" each layer a Sound Design: Sound tested with 2-1/2" glass fiber		Thickness: Approx. Weight:	5" (Fire at 9 psf (Fire 9.2 psf (S	,	
		Fire Test:	WHI-495-	0236 & 237, 1-30-80,	
		Sound Test:	NRCC TL	-03-037	

Planning - Engineering

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503.224.9560

Vancouver, WA

360.695.7879

Seattle, WA

206.749.9993

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CREF3 PUYALLUP

11611 SAN VICENTE BLVD.

LOS ANGELES, CA 90049

OWNER LLC

10TH FLOOR

Project

FORTRESS -

PUYALLUP

240 15TH ST SE

Mechanical/Electrical

PUYALLUP, WA 98372

DESIGN DRIVEN | CLIENT FOCUSED

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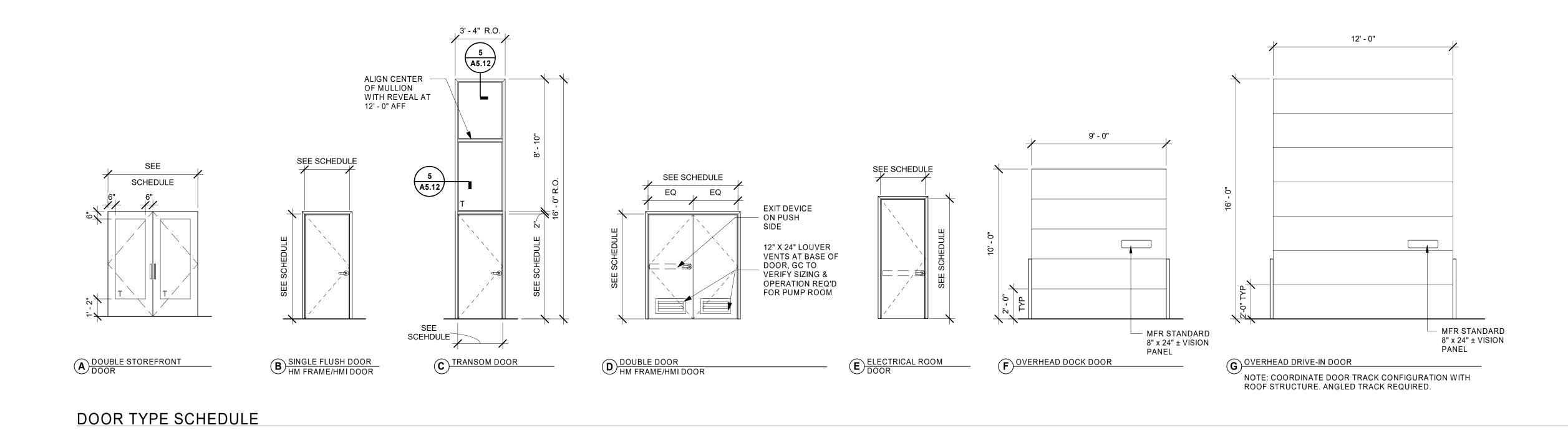
REVISION SCHEDULE 1 PLAN CHECK 11/07/23

ROOF DETAILS & INTERIOR **DETAILS**

SHEET

						<u>DC</u>	OOR S	CHED	ULE						
			DO	OR			FRAME			DETAIL		HDWR			
DOOR	WIDTH	HEIGHT	THK	TYPE	MAT'L	FINISH	TYPE	MAT'L	FINISH	HEAD	JAMB	SILL	GROUP	RATING	COMMENT
101	6' - 0"	7' - 0"		Α	AL/GL	PREFIN	SF	AL	FF	_	-	5/A5.15	H1		
102	3' - 0"	7' - 0"	1 3/4"	В	НМ	Р	НМ	STL	Р	4/A5.12	4/A5.12	12/A5.14	H2		
103	6' - 0"	7' - 0"		Α	AL/GL	PREFIN	SF	AL	FF	-	-	5/A5.15	H1		
104	3' - 0"	7' - 0"	1 3/4"	С	НМ	Р	НМ	STL	Р	4/A5.12	4/A5.12	12/A5.14	H2		
111	3' - 0"	7' - 0"	1 3/4"	В	НМ	Р	НМ	STL	Р	4/A5.12	4/A5.12	12/A5.14	H2		
119	3' - 0"	7' - 0"	1 3/4"	В	НМ	Р	НМ	STL	Р	4/A5.12	4/A5.12	12/A5.14	H2		
127	3' - 0"	7' - 0"	1 3/4"	В	НМ	Р	НМ	STL	Р	4/A5.12	4/A5.12	12/A5.14	H2		
133	3' - 0"	7' - 0"	1 3/4"	В	НМ	Р	НМ	STL	Р	4/A5.12	4/A5.12	12/A5.14	H2		
134	3' - 0"	7' - 0"	1 3/4"	E	НМ	Р	НМ	STL	Р	4/A5.12	4/A5.12	12/A5.14	H5		
135	6' - 0"	7' - 0"	1 3/4"	D	НМ	Р	НМ	STL	Р	4/A5.12	4/A5.12	12/A5.14	H3		
136	3' - 0"	7' - 0"	1 3/4"	В	НМ	Р	НМ	STL	Р	4/A5.12	4/A5.12	12/A5.14	H2		
137	6' - 0"	7' - 0"		Α	AL/GL	PREFIN	SF	AL	FF	-	-	5/A5.15	H1		
138	3' - 0"	7' - 0"	1 3/4"	В	НМ	Р	НМ	STL	Р	4/A5.12	4/A5.12	12/A5.14	H2	3 HOUR	
139	3' - 0"	7' - 0"	1 3/4"	В	HM	Р	НМ	STL	Р	4/A5.12	4/A5.12	12/A5.14	H2	3 HOUR	
140	3' - 0"	7' - 0"	1 3/4"	В	HM	Р	НМ	STL	Р	4/A5.12	4/A5.12	12/A5.14	H2	3 HOUR	
141	3' - 0"	7' - 0"	1 3/4"	В	HM	Р	НМ	STL	Р	4/A5.12	4/A5.12	12/A5.14	H2	3 HOUR	
142	3' - 0"	7' - 0"	1 3/4"	В	HM	Р	НМ	STL	Р	4/A5.12	4/A5.12	12/A5.14	H2	3 HOUR	

						DOCK	<u>(DOO</u>	R SCH	<u>IEDUL</u>	<u> </u>					
	DOOR						FRAME		DETAIL			HDWR			
DOOR	WIDTH	HEIGHT	THK	TYPE	MAT'L	FINISH	TYPE	MAT'L	FINISH	HEAD	JAMB	SILL	GROUP	RATING	COMMENTS
105	12' - 0"	16' - 0"	1 1/2"	G		PREFIN	_	STL	GL/FF		3/A5.12	10/A5.14	H4		
105	9' - 0"	10' - 0"	1 1/2"	F	-	PREFIN		STL	GL/FF		3/A5.12 3/A5.12	10/A5.14 10/A5.14	 Н4		
106	9'-0"	10 - 0"	1 1/2"	F	-	PREFIN	-	STL	GL/FF		3/A5.12 3/A5.12	10/A5.14 10/A5.14	п4 Н4		
107	9' - 0"	10 - 0"	1 1/2"	F		PREFIN	-	STL	GL/FF		3/A5.12	10/A5.14 10/A5.14	H4		
109	9' - 0"	10 - 0"	1 1/2"	F	-	PREFIN	-	STL	GL/FF		3/A5.12	10/A5.14 10/A5.14	H4		
110	9' - 0"	10' - 0"	1 1/2"	F		PREFIN		STL	GL/FF		3/A5.12	10/A5.14	H4		
112	9' - 0"	10' - 0"	1 1/2"	F		PREFIN		STL	GL/FF		3/A5.12	10/A5.14	H4		
113	9' - 0"	10' - 0"	1 1/2"	F	_	PREFIN	_	STL	GL/FF		3/A5.12	10/A5.14	H4		
114	9' - 0"	10' - 0"	1 1/2"	F		PREFIN		STL	GL/FF		3/A5.12	10/A5.14	H4		
115	9' - 0"	10' - 0"	1 1/2"	F	_	PREFIN		STL	GL/FF		3/A5.12	10/A5.14	H4		
116	9' - 0"	10' - 0"	1 1/2"	F	_	PREFIN	_	STL	GL/FF		3/A5.12	10/A5.14	H4		
117	9' - 0"	10' - 0"	1 1/2"	F	_	PREFIN	_	STL	GL/FF		3/A5.12	10/A5.14	H4		
118	9' - 0"	10' - 0"	1 1/2"	F	_	PREFIN	_	STL	GL/FF		3/A5.12	10/A5.14	H4		
120	9' - 0"	10' - 0"	1 1/2"	F	_	PREFIN	_	STL	GL/FF		3/A5.12	10/A5.14	H4		
121	9' - 0"	10' - 0"	1 1/2"	F	_	PREFIN	-	STL	GL/FF		3/A5.12	10/A5.14	H4		
122	9' - 0"	10' - 0"	1 1/2"	F	_	PREFIN	-	STL	GL/FF		3/A5.12	10/A5.14	H4		
123	9' - 0"	10' - 0"	1 1/2"	F	-	PREFIN	-	STL	GL/FF		3/A5.12	10/A5.14	H4		
124	9' - 0"	10' - 0"	1 1/2"	F	-	PREFIN	-	STL	GL/FF		3/A5.12	10/A5.14	H4		
125	9' - 0"	10' - 0"	1 1/2"	F	-	PREFIN	-	STL	GL/FF		3/A5.12	10/A5.14	H4		
126	9' - 0"	10' - 0"	1 1/2"	F	-	PREFIN	-	STL	GL/FF		3/A5.12	10/A5.14	H4		
128	9' - 0"	10' - 0"	1 1/2"	F	-	PREFIN	-	STL	GL/FF		3/A5.12	10/A5.14	H4		
129	9' - 0"	10' - 0"	1 1/2"	F	-	PREFIN	-	STL	GL/FF		3/A5.12	10/A5.14	H4		
130	9' - 0"	10' - 0"	1 1/2"	F	-	PREFIN	-	STL	GL/FF		3/A5.12	10/A5.14	H4		
131	9' - 0"	10' - 0"	1 1/2"	F	-	PREFIN	-	STL	GL/FF		3/A5.12	10/A5.14	H4		
132	12' - 0"	16' - 0"	1 1/2"	G	-	PREFIN	_	STL	GL/FF		3/A5.12	10/A5.14	H4		





CONTINUOUS HINGE
PANIC HARDWARE
EXTERIOR MAN DOORS

1 1/2 PAIR HINGES
THRESHOLD
EXTERIOR PULL
OVERHEAD CLOSER
THRESHOLD
FULL SET WEATHER STRIPPING
SWEEP

EXTERIOR MAN DOORS

1 1/2 PAIR HINGES
THRESHOLD
1 LEVER HANDLE MORTISE (EXTERIOR)
CLOSER
1 FULL SET WEATHER STRIPPING
1 PANIC ALARM UPON OPENING

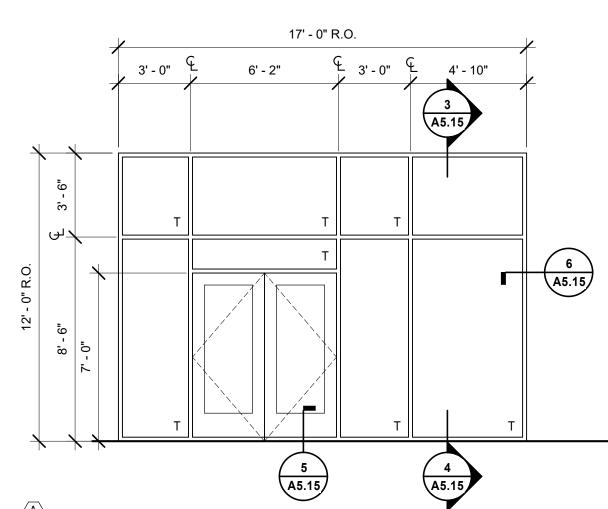
GROUP H4:
OVERHEAD DOCK DOORS
- FULL SET WEATHERSTRIP PACKAGE
PROVISION FOR PADLOCK

GROUP H3:
FIRE SPRINKLER ROOM

1 1/2 PAIR HINGES
1 CLOSER
1 LEVER HANDLE MORTISE (EXTERIOR)
1 FULL SET WEATHER STRIPPING
1 DOOR BOTTOM SWEEP
1 LOCK GUARD & DRIP GUARD
1 PANIC ALARM UPON OPENING
1 PANIC ALARM UPON OPENING

ABBREVIATIONS

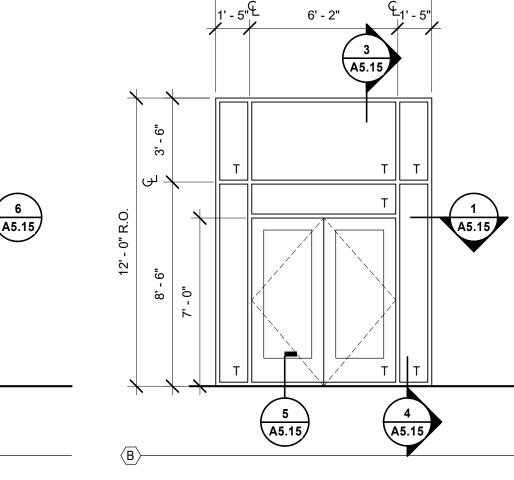
AL	ALUMINUM	PW	PREFINISHED WOOD
ELO	ELECTRONICALLY OPERATED	OHI	OVERHEAD DOOR INSULATED
FF	FACTORY FINISH	S	STAINED
FL	FULL LIGHT	SC	SOLID CORE
GLZ/GL	GLAZING	SF	STOREFRONT
HM	HOLLOW METAL	STL	STEEL
HMI	HOLLOW METAL INSULATED	T	TEMPERED
HMW	HOLLOW METAL WELDED	VP	VISION PANEL
Р	PAINT	W	WOOD

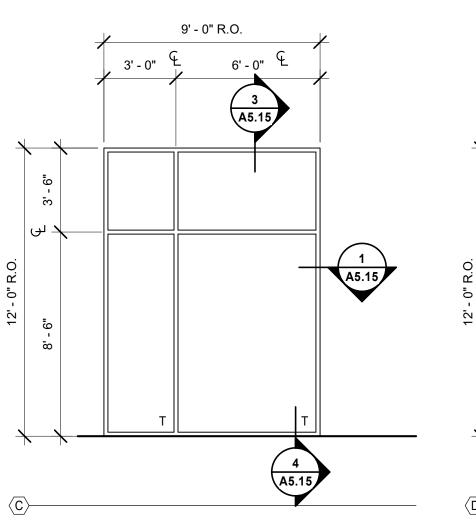


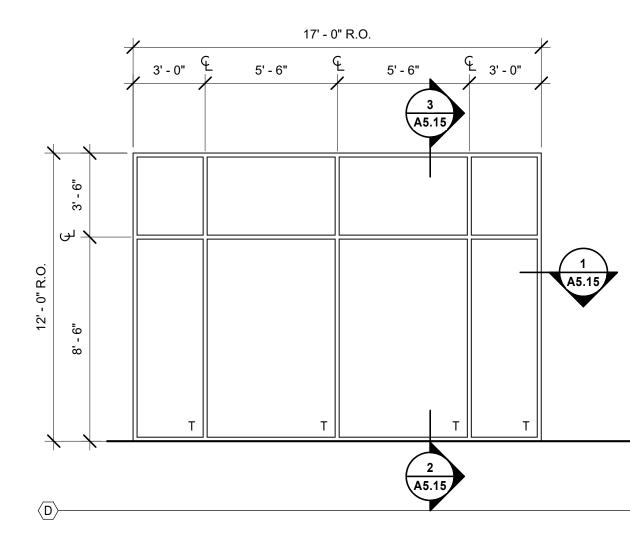
LEGEND

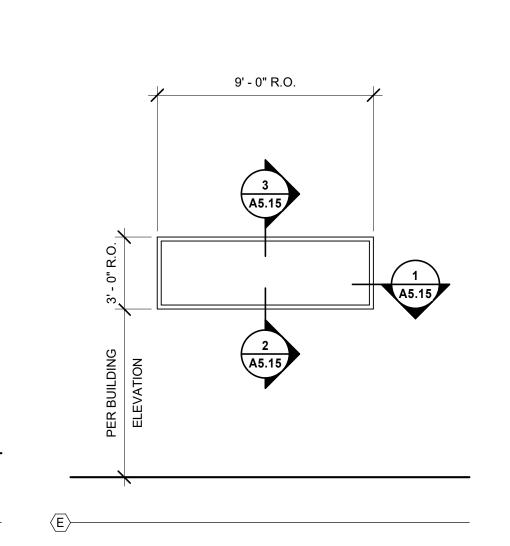
T = TEMPERED GLAZING

STOREFRONT TYPES









REGISTERED ARCHITECT

PRETT TIMOUNY CONWAY STATE OF WASHINGTON

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Vancouver, WA 360.695.7879

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FORTRESS -PUYALLUP

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REVISION SCHEDULE

REVISION SCHEDULE

Delta Issued As Issue Da

SHEET TITLE:
DOOR AND
WINDOW
SCHEDULE

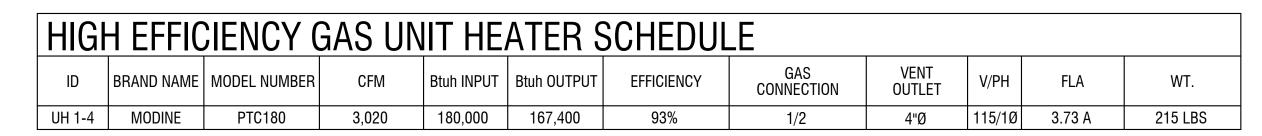
SHEET

A6.10

JOB NO. 2220290.00

PERMIT SET 6/28/2023

Autodesk Docs://Fortress-Puyallup/290-Fortress-Puyallup-V23-A.rvt 6/28/2023 2:48:18 PM As indicated



FAN	SCHE	DULE									
ID	BRAND NAME	MODEL NUMBER	CFM	SP	HP/AMP	FLOW	V/PH	SOUND RATING	DUCT	LOCATION	WEIGHT
EF 1-4	ILG	CRBA13	2,000	.125"	1/2 HP	CV	208/1	14.4 SONES	14"x14" B.D.D.	R00F	117 LBS

NOTE: These plans are diagrammatical only. Please verify all dimensions at job site.

HVAC ABBREVIATIONS

AFF ABOVE FINISHED FLOOR BACKDRAFT DAMPER BTUH BRITISH THERMAL UNIT PER HOUR CEILING DIFFUSER CFM CUBIC FEET PER MINUTE CU CONDENSING UNIT DB DECIBEL DH DUCT HEATER DOAS DEDICATED OUTSIDE AIR SYSTEM DN DOWN EVAPORATOR COIL ENERGY EFFICIENCY RATIO EXHAUST FAN EXHAUST GRILLE ENERGY RECOVERY VENTILATOR ESP EXTERNAL STATIC PRESSURE EXH EXHAUST FCU FAN COIL UNIT FIRE DAMPER, FLOOR DRAIN FEET PER MINUTE FIRE AND SMOKE DAMPER

FSD GA GAUGE GF GAS FURNACE

HORSEPOWER, HEAT PUMP ID INSIDE DIMENSION INFRARED HEATER

NOISE CRITERIA NIC NOT IN CONTRACT

OPPOSED BLADE DAMPER 00 ON CENTER

OSA OUTSIDE AIR OSCI

RETURN AIR GRILLE RTU ROOFTOP UNIT SA SUPPLY AIR SUPPLY GRILLE

SP STATIC PRESSURE TO BE DETERMINED TG TRANSFER GRILLE

TYP TYPICAL UNIT HEATER UH

VENT TO ROOF VVT

HVAC LEGEND INLINE EXHAUST FAN(S) ROOFTOP EXHAUST FAN SIDEWALL EXHAUST FAN

THERMOSTAT

T-BAR SUPPLY DIFFUSER

T-BAR RETURN GRILLE

HARDLID SUPPLY DIFFUSER

HARDLID RETURN GRILLE

FIRE DAMPER

FIRE SMOKE DAMPER

VOLUME DAMPER

SMOKE DETECTOR

FLEXIBLE DUCT SA/RA

ROUND DUCT UP

ROUND DUCT DOWN

DIFFUSER TAG

VAV FAN BOX CEILING EXHAUST FAN $\langle M \rangle$ **GAS METER** VVT DAMPER

FD 🛌

FSD •

SD —

GRILLE, REGISTER, DIFFUSER

INDOOR (SECTION) HEAT PUMP KW KILOWATT

THOUSAND BTU PER HOUR MOTORIZED CONTROL DAMPER

NOT TO SCALE

OD OUTSIDE DIMENSION OR DIAMETER OUTDOOR HEAT PUMP

OWNER SUPPLIED CONTR. INSTALLED POC POINT OF CONNECTION RA RETURN AIR

REVOLUTIONS PER MINUTE

SIDEWALL SUPPLY GRILLE

VARIABLE FREQUENCY DRIVE

VARIABLE VOLUME AND TEMPERATURE

HVAC NOTES

DUCT INSULATION TO MEET THE REQUIREMENTS OF SECT-ION C403.10 OF THE 2018 WSEC AND SECTION 604 OF THE IECC (INTERNATIONAL ENERGY CONSERVATION CODE).

2. SMOKE DETECTOR(S) INSTALLED IN MAIN RETURN AIR DUCTS PER SECTION 606 OF THE 2018 IMC. HVAC SMOKE DUCT DETECTORS SHALL SHUT DOWN POWER TO THE UNIT UPON ACTIVATION AND A "SUPERVISORY" ZONE SHALL BE INITIATED AT FIRE ALARM PANEL UPON SMOKE DUCT DETECTOR ACTIVATION. 2018 IMC SECTION 606.4 & 604.6.1

SUPPLY & RETURN AIR DUCT IS MIN. R-6 IN UNCONDITIONED SPACES & MIN. R-8 WHEN LOCATED OUTSIDE OF BUILDING AS PER THE 2018 WSEC C403.10.1.2.

. ALL SINGLE PACKAGE HVAC UNITS SHALL BE INSTALLED WITH ECONOMIZERS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS PER 2018 IMC, SECTION 403 AND SHALL OPERATE PER 2018 WSEC, SECTION C403.5.1.

5. EQUIPMENT INSTALLATION INSTRUCTIONS TO BE ON-SITE FOR INSPECTIONS.

ALL HVAC EQMT. TO BE LABELED TO THE SPACE SERVED.

DUCTS TO BE SUPPORTED AT EACH DIRECTION CHANGE VERTICAL AT 12'-0" MAX., HORIZONTAL AT 10'-0" MAX. WITH STRAP, OR 8'-0" MAX. TRAPEZE SUPPORT.

. THERMOSTAT TO BE SEVEN-DAY TYPE AND HAVE NIGHT SETBACK WITH 5 DEGREE DEADBAND.

. THE HVAC INSTALLATION SHALL BE COMPLETE WHEN ALL SECTIONS OF 2018 WSEC C408 HAVE BEEN SATISFIED. THIS SHALL INCLUDE AS-BUILT DRAWINGS, SUBMITTALS, O&M MANUALS, SYSTEM BALANCE REPORT, AND A COMMIS-SIONING REPORT.

10. DUCT SEALING SHALL MEET REQUIREMENTS OF 2018 WSEC C403.10.2. DUCT WORK WHICH IS DESIGNATED TO OPERATE AT PRESSURES ABOVE 1/2" WATER COLUMN STATIC PRESSURE SHALL BE SEALED AS FOLLOWS:

1. STATIC PRESSURE 1/2 INCH TO 2 INCHES: SEAL ALL TRANSVERSE JOINTS AND LONGITUDINAL SEAMS. SPIRAL LOCK SEAMS IN ROUND AND FLAT OVAL DUCT WORK DO NOT REQUIRE SEALING; HOWEVER, OTHER SEAMS SHALL BE SEALED.

11. 2018 WSEC FORMS, DUCT PLANS, BALANCING FEATURES, AS WELL AS VENTILATION REQUIREMENTS (AS PER TABLE 403.3.1.1, 2018 IMC MINIMUM VENTILATION RATES) AND OCCUPANCY, ALONG WITH A MECHANICAL PERMIT AT THE TIME OF THE TENANT IMPROVEMENT PERMIT.

SCOPE OF WORK JOB# 23xxx

. INSTALL (1) ELECTRIC WALL HEATER. 2. INSTALL (4) ROOFTOP EXHAUST FANS.

3. INSTALL (4) GAS FIRED UNIT HEATERS. 4. INSTALL NATURAL GAS PIPING.

VENTILATION CALCULATION

WAREHOUSE VENTILATION = $(CFM/SF) \times (SQ FT)$ " " " = $(.06) \times (128,547 \text{ SQ FT}')$ " " " = 7,713 MINIMUM CFM(4) FANS(2,000 CFM/FAN) = 8,000 TOTAL CFM

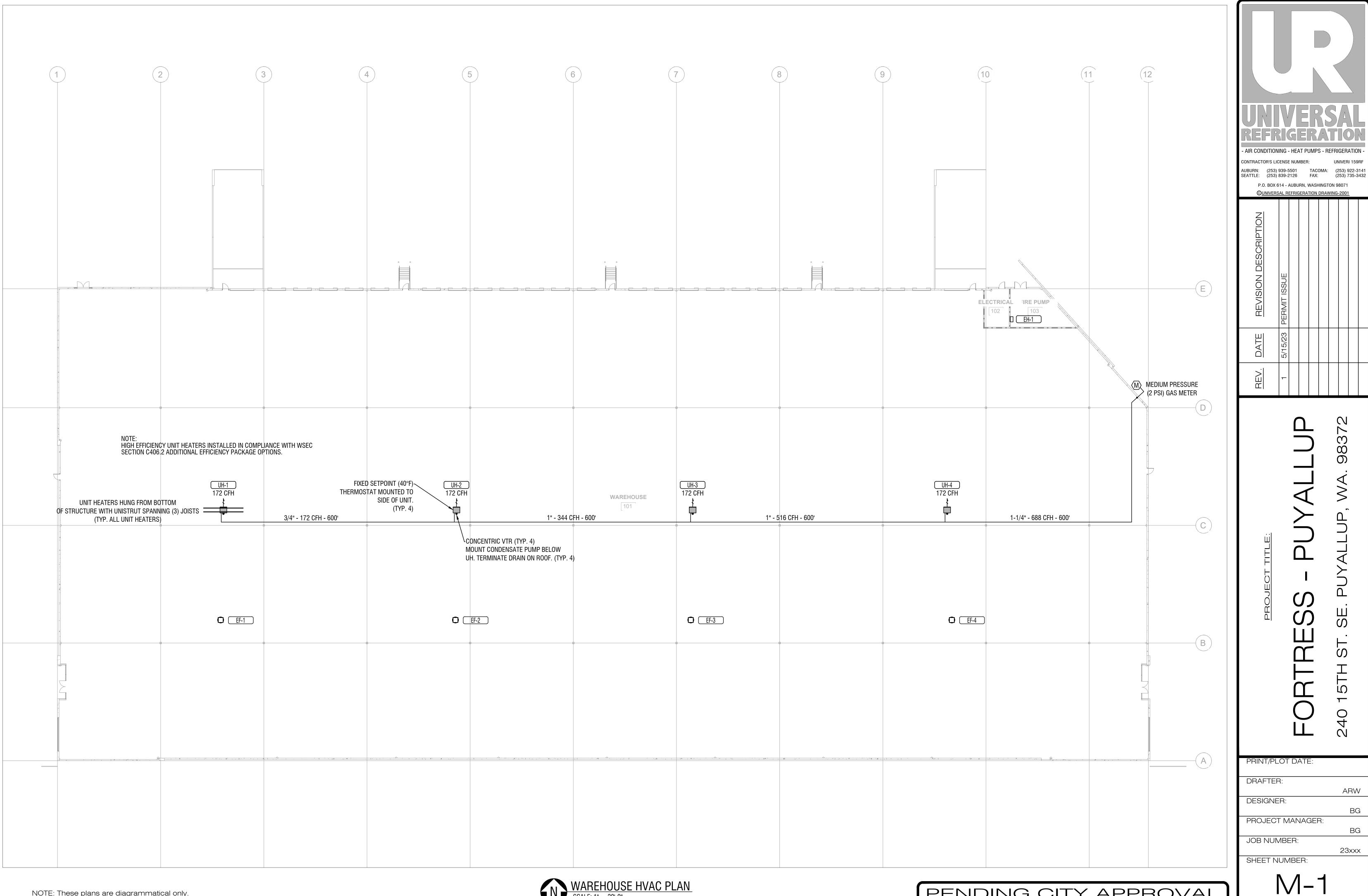
SEMI-HEAT CALCULATION

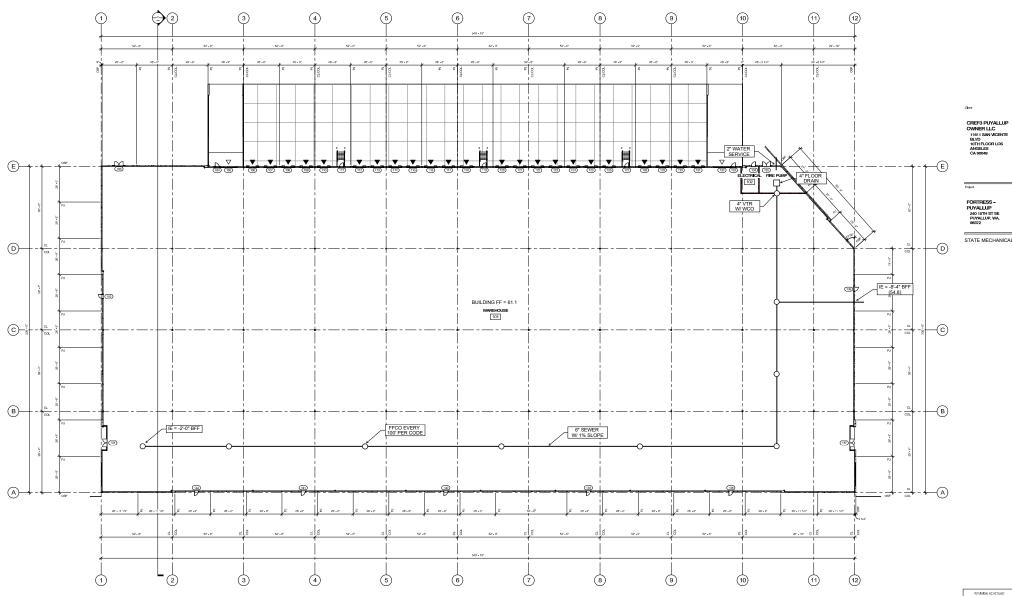
EQUIPMENT OUTPUT TOTAL WAREHOUSE SQUARE FOOTAGE BTUH/SQ. FT. (4) UNIT HEATERS x (167,400) BTUH OUTPUT BTUH/SQ. FT. (128,547) SQ FT

> = (5.21) BTUH/SQ. FT. (128,547) SQ FT

AIR CONDITIONING - HEAT PUMPS - REFRIGERATION CONTRACTOR'S LICENSE NUMBER: UNIVERI 159RF AUBURN: (253) 939-5501 TACOMA: (253) 922-314 SEATTLE: (253) 839-2126 FAX: (253) 735-3432 P.O. BOX 614 - AUBURN, WASHINGTON 98071 ©UNIVERSAL REFRIGERATION DRAWING-2001

PENDING CITY APPROVAL





THRST FLOOR PLAN

REVOKEON SCHEDULE

Delts I Exact of a series

- PRESENTE ST. SERIES

SERVET THE

WATER AND SEWER PLAN

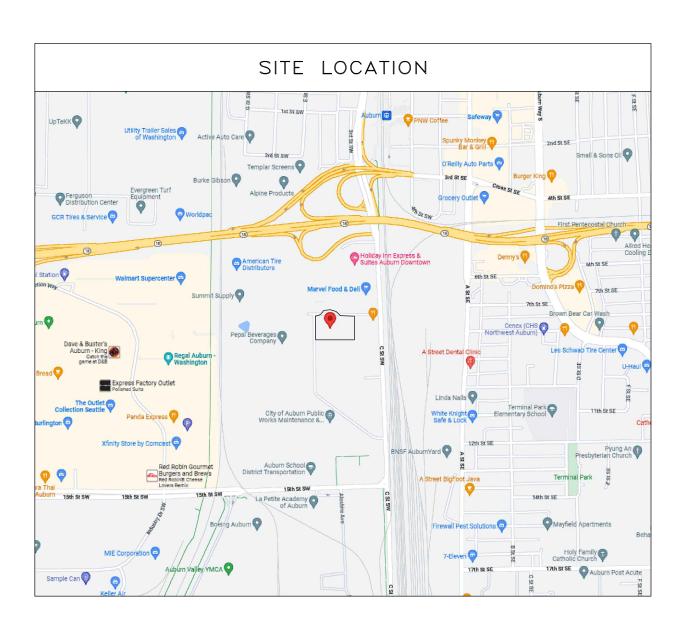
P-1.0

FORTRESS

PUYALLUP



ELECTRICAL DRAWINGS



APPLICABLE CODES AND STANDARDS

2020 NATIONAL ELECTRICAL CODE (NEC) WITH LOCAL AND STATE AMENDMENTS

2018 WASHINGTON STATE ENERGY CODE (WSEC/NREC)

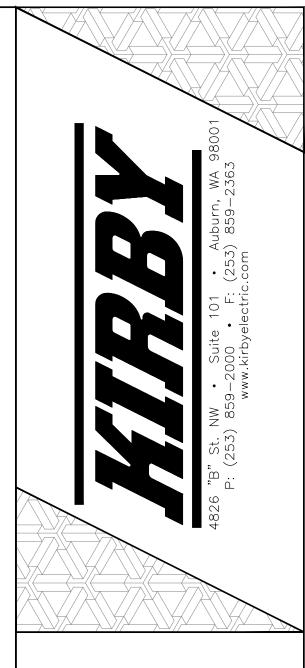
DESCRIPTION OF WORK:

INDUSTRIAL BUILDING, WAREHOUSE. 129,092 SQFT



www.kirbyelectric.com

ELECTRIC	AL SHEET INDEX
Sheet Number	Sheet Title
E0.00	COVER SHEET
E0.01	EQUIPMENT SCHEDULE
E0.02	LIGHTING SUMMARY
E1.01	SITE PLAN
E1.02	SITE PHOTOMETRIC
E2.01	POWER PLAN
E3.01	LIGHTING PLAN
E3.02	INTERIOR PHOTOMETRIC
E5.01	PANEL SCHEDULES
E6.01	ONE-LINE RISER DIAGRAM



FORTRESS PUYALLUP

240 114TH ST SE PUYALLUP, WA 98372

REVISIONS:

(2023-06-16)
INITIAL REVIEW SET

(2023-06-29)
PERMIT SET

JOB CONTACTS							
PROJECT MANAGER	VITALIY KALCHIK	VITALY@KIRBYELECTRIC.COM					
FOREMAN	T.B.D.	T.B.D.					
DRAWING/DESIGN INFORMATION	BRIAN MISHCHUK	BRIANM@KIRBYELECTRIC.COM					

SHEET NUMBER:	E0.00
SHEET TITLE:	
COVER	SHEET
PLOT DATE:	06-29-23
DRAWN BY:	B.R.M.

23-027

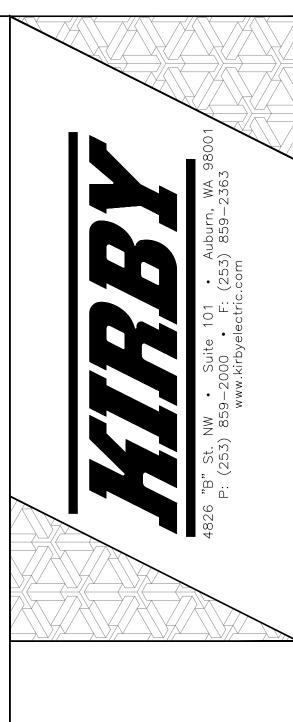
CALLOUT	SYMBOL	DESCRIPTION	MOUNTING	MODEL	INPUT WATTS	VOLTS	QUANTITY
DL		LED DOWN LIGHT	CEILING	JUNO JSF-13N-18LM-40K-90CRI-MVOLT-ZT-WH	20.2	277V 1P 2W	8
F1		LED HIGHBAY W/ INTEGRAL OCCUPANCY SENSOR	CEILING	ENVISION LED-LHB-4FT-3P320W	325.01	277V 1P 2W	17
F2	<u> </u>	8' LED STRIP LIGHT	CEILING	COOPER METALUX 8SLSTP8040DD-UNV	79	120V 1P 2W	4
P		LED POLE LIGHT	POLE/WALL	LITHONIA RSXF3-LED-P4-40K-AWFD	311.92	277V 1P 2W	2
WM1	-	WALL MOUNT FIXTURE	WALL	LITHONIA RSXF1-LED-P2-40K-SP	72.95	277V 1P 2W	11
WM2		WALL MOUNT FIXTURE	WALL	LITHONIA RSXF2-LED-P3-40K-WFL	149.98	277V 1P 2W	1
WM3		EXTERIOR WALL MOUNT WEDGE FIXTURE	WALL	LITHONIA WDGE3-LED-P3-40K-70CRI-RFT-40K	71.7	277V 1P 2W	5
WM4		EXTERIOR WALL MOUNT WEDGE FIXTURE	WALL	LITHONIA WDGE2-LED-P2-40K-70CRI-T2M	18.9	277V 1P 2W	10
WMF		WALL MOUNT FIXTURE	CEILING	LITHONIA RSXF3-LED-P4-40K-NFL	311.92	277V 1P 2W	5
X1		LED EXIT AND EMERGENCY SIGN	WALL/CEILING	CPL APCH7G	10	277V 1P 2W	15
X1R	₩	LED EMERGENCY LIGHTING REMOTE HEAD	WALL	CPL APWR1	10	277V 1P 2W	15

EQUI	EQUIPMENT SCHEDULE									
CALLOUT	DESCRIPTION	SYMBOL	VOLTS	AMPS	HP	CIRCUIT	MAKE & MODEL			
DFP-CO	DIESEL FIRE PUMP - CONNECTION ONLY	\Diamond	480V 3P 4W	0.12	F HP					
EWH-1	ELECTRIC WALL HEATER	\Diamond	120V 1P 2W	12.5		L1-12				
REF-1	ROOFTOP EXHAUST FAN	8	208V 2P 2W	7.96	3/4 HP	L1-1,3	T.B.D			
REF-2	ROOFTOP EXHAUST FAN	8	208V 2P 2W	7.96	3/4 HP	L1-7,9	T.B.D			
REF-3	ROOFTOP EXHAUST FAN	8	208V 2P 2W	7.96	3/4 HP	L1-11,13	T.B.D			
REF-4	ROOFTOP EXHAUST FAN	8	208V 2P 2W	7.96	3/4 HP	L1-17,19	T.B.D			
UH-1	GAS UNIT HEATER	8	120V 1P 2W	6.75		L1-5	T.B.D.			
UH-2	GAS UNIT HEATER	8	120V 1P 2W	6.75		L1-5	T.B.D.			
UH-3	GAS UNIT HEATER	8	120V 1P 2W	6.75		L1-15	T.B.D.			
UH-4	GAS UNIT HEATER	8	120V 1P 2W	6.75		L1-15	T.B.D.			

SWITCH SCHEDULE							
CALLOUT	SYMBOL	QUANTITY					
GENERIC SWITCH	\$	2					
TIMECLOCK	2	1					

RECEPTACLE SCHEDULE									
CALLOUT	SYMB0L	VOLTS	FEATURES	QUANTITY					
DEDICATED DUPLEX	⇔ D	120V 1P 2W	GND	3					
DEDICATED QUADPLEX	⊕ D	120V 1P 2W	GND	1					

WSEC I							,								
					2 D2 0 P 1	arram 2 =: .	nd all D						A.d	2022 27	OT A All sixt :
2018 WSEC Compliance Form	ns for Com		uildings includi	ng Group R2	2, K3 & R4		nd all R1 vallup - 2018 W	SEC 1	For P	Building Dep	artment Ha	a·		_	EA, All rights reserve
				6			11th St SE	SEC	FOLE	Bununig Dep	artificiti Os	c.		Date:	Jun 29, 202
Project & Applicant Information		Applicant Nam				ıp, WA 98372 ı Mishchuk									
intormation		-	Applicant Nam Applicant Phor				-859-2000								
			Applicant Ema		WCI		rirbyelectric.co		200 -	::1					
		707						ort at 360-339-3				support@waenergyc	_		
General Occupancy			All Co	ommercial		eneral Building	g Use Type		+	Warehouse,	General Sto		ond. Floor Area		129,090 129,090
General Project Types			New Building	New Buildi Addition		Interior L Exterior L		Alteration Lighting Scope				Floors Abov	ve Grade		1
Lighting Project Description				Lighting So	cope	DATE: IO	e e	NDUSTRIAL B		OING TII T-I	IP WAREH	Compliance	Method C	ompliano	ce Method 1 - Genera
Lighting Project Description								NOCSTRIALD	T	JING TIEI-C	J WAREII		C. L. d		
Lighting Complianc	ce Scope		Project Type		nterior / Ext ludes both int	terior erior & parking)	Luminaire I	Replacement Sc	ope	Complianc	e Method		Calculation djustment	Co	ompliance Verification
and Method			New Building		Interior Ligh					Space by	/ space		power density option - 20	0%	COMPLIES
Additional Effici	iencv		New Building	E	Exterior Lig	hting						Not app	licable to exterior		COMPLIES
Options Includ															
Project Title For	rtress - I	Puyallu	o - 2018 WSF	EC									Date	Jun	29, 2023
	tion		NEW BUILI	OINC IN	TFDIAL	LICHTING	~					Com	unliance Verificatio		ADI IEC
Lighting Power Calculation	IIVII					LIGHTING		Callata	J:			Con	ipliance Verification		
Compliance Method				Space by sp	oace		LPA	Calculation Ac	ujustn	ment				LPA x 0.	.8
				ı	Cen		hting Power A	llowance - Spac	ce by S	Space	To4-1 ***	atts Allowed	Total Duores - 1 XX		
General Space Type		Specifi	ic Space Type		Ceiling Height (F		Interior Area	(SF) LPA	A (Wa	atts/SF)		LPA x 0.8)	Total Proposed Watts (LPD + Display LPD		Compliance Status
Electrical/mechanical Warehouse/storage area	Med	dium to b	ulky palletized i	tems		_	725 128,367		0.4			312 2,361			
warehouse/storage area	IVIC	urum to o	urky panetized i	tems			126,307	Prop	- 10	Total LPD	4	2,301	8721.2		
				Totals			Calculation A	djustment App	lied -	LPA x 0.8	3	4,138	8,721		COMPLIES
						Pr		g Power Densit	ty						m
Fixture Typ	no		Fixtur	o ID	Qu	antity of	I	Watts or ttage Limit		Total	Linear	West	ts per Linear		Total Watts Proposed
Fixture Typ	pe		r ixtui												
				СП	Fixt	tures (#F)	l pe	er Fixture (WpF)			t (LF)		ot (WpLF)		(#F x WpF) or (LF x WpLF)
Individual Fixtures	1	C			Fixt	tures (#F)	l pe	(WpF)							(#F x ŴpF) or (LF x WpLF)
	rizontal sur	face-mour			Fixt		l pe								(#F x WpF) or
					Fix	tures (#F)	l pe	(WpF) 799							(#F x WpF) or (LF x WpLF) 3,196
Hori		Suspende	rd F1		Fixt	tures (#F)	l pe	(WpF) 799					oot (WpLF)	Jun	(#F x WpF) or (LF x WpLF) 3,196 5,525 8721.2
Project Title For	rtress - I	Suspende Puyallu	o - 2018 WSF	EC		4 17	p	(WpF) 799					Proposed Total LPD	Jun	(#F x WpF) or (LF x WpLF) 3,196 5,525
Hori	rtress - I	Suspende Puyallu	rd F1	EC		4 17	p	(WpF) 799					Proposed Total LPD Date	Jun	(#F x WpF) or (LF x WpLF) 3,196 5,525 8721.2
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Project Title For Proposed Fixtures Detail Fixture Type/Application Individual Fixtures Horizontal surfactorization Horizontal surfactorization From Formation Individual Fixtures Project Title For Lighting Power Calculation Exterior Lighting Zone Tradable Surfactorization Individual Fixtures Fixture Type Individual Fixtures Canopy Pole-mounted	Suspended Cortress - Fition Fixture Fixture Fixture	Fixture D Do these Puyallup Fixture D To these Puyallup L D	radable S Tradable S Entry Buill Buill	EC DING - IN ED STRIP L specific appi D HIGBAY specific appi CEC DING - EX Trada ding entranc Jncovered pa	Lo LIGHT Dication light Strento Type Type able Surface ces and exits arking areas	A LIGHTING ELIGHTING ELIGHTING ELIGHTING ELIGHTING ELIGHTING ELIGHTING ELIGHTING ZONE Exterior Surface Area (SF) 1,600 125,997 Proposite E Type S - Entry canopics and drives -	Mone required None required LPA (Watts/SF) 0.25 0.04	799 325 Iting Power All Linear Feet (LF) Ba ghting Power L Quantity of Fixtures (#F	Basco (V	mp Type LED LED LED LED LED LED LED LE	Are the Are th	Con Watts Allowed PA x SF) or _PA x LF) 400 5,040 400 5,840 Total Linear	Proposed Total LPD Date New or Existing-to-Re New d within a daylight zone of the second within a daylight zone of the	main P: No Jun : Tra	(#F x WpF) or (LF x WpLF) 3,196 5,525 8721.2 29, 2023 400 dable Compliance Status COMPLIES Total Watts Proposed (#F x WpF) or (LF x WpLF) 162 624
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Project Title For Proposed Fixtures Detail Fixture Type/Application Individual Fixtures Horizontal surfactorization Horizontal surfactorization From Formation Individual Fixtures Project Title For Lighting Power Calculation Exterior Lighting Zone Tradable Surfactorization Individual Fixtures Fixture Type Individual Fixtures Canopy Pole-mounted Wall-mounted	rtress - Fistures and drives Fixtures and drives	Fixture D Do these Puyallup Fixture D Do these Puyallup L D M4 M3 MF	radable S Tradable S Entry Built Built	EC DING - IN specific appi DHIGBAY specific appi CC DING - EX urface Sub- y canopies Trada ding entranc Jncovered pa Jncovered pa Jncovered pa Jncovered pa	TERIOF Lo JIGHT Dication light Dication light ATERIO Type able Surfact arking areas arking areas arking areas arking areas arking areas arking areas	Exterior Surface Area (SF) Propose E Type S - Entry canopics and drives - s and	Mone required None required LPA (Watts/SF) 0.25 0.04 ed Tradable Lig	799 325 ting Power All Linear Feet (LF) Ba ghting Power E Quantity of Fixtures (#F	Basco (V	mp Type LED LED LED LED LED LED LED LE	Are the Are th	Con Watts Allowed PA x SF) or _PA x LF) 400 5,040 400 5,840 Total Linear	Proposed Total LPD Date New or Existing-to-Re New d within a daylight zone of the second within a daylight zone of the	main P: No Jun : Tra	(#F x WpF) or (LF x WpLF) 3,196 5,525 8721.2 29, 2023 400 dable Compliance Status COMPLIES Total Watts Proposed (#F x WpF) or (LF x WpLF) 162 624 189



FORTRESS PUYALLUP

240 114TH ST SE PUYALLUP, WA 98372

SHEET NUMBER: [

SHEET TITLE:
EQUIPMENT
SCHEDULE

PLOT DATE: 06-29-23DRAWN BY: B.R.M.

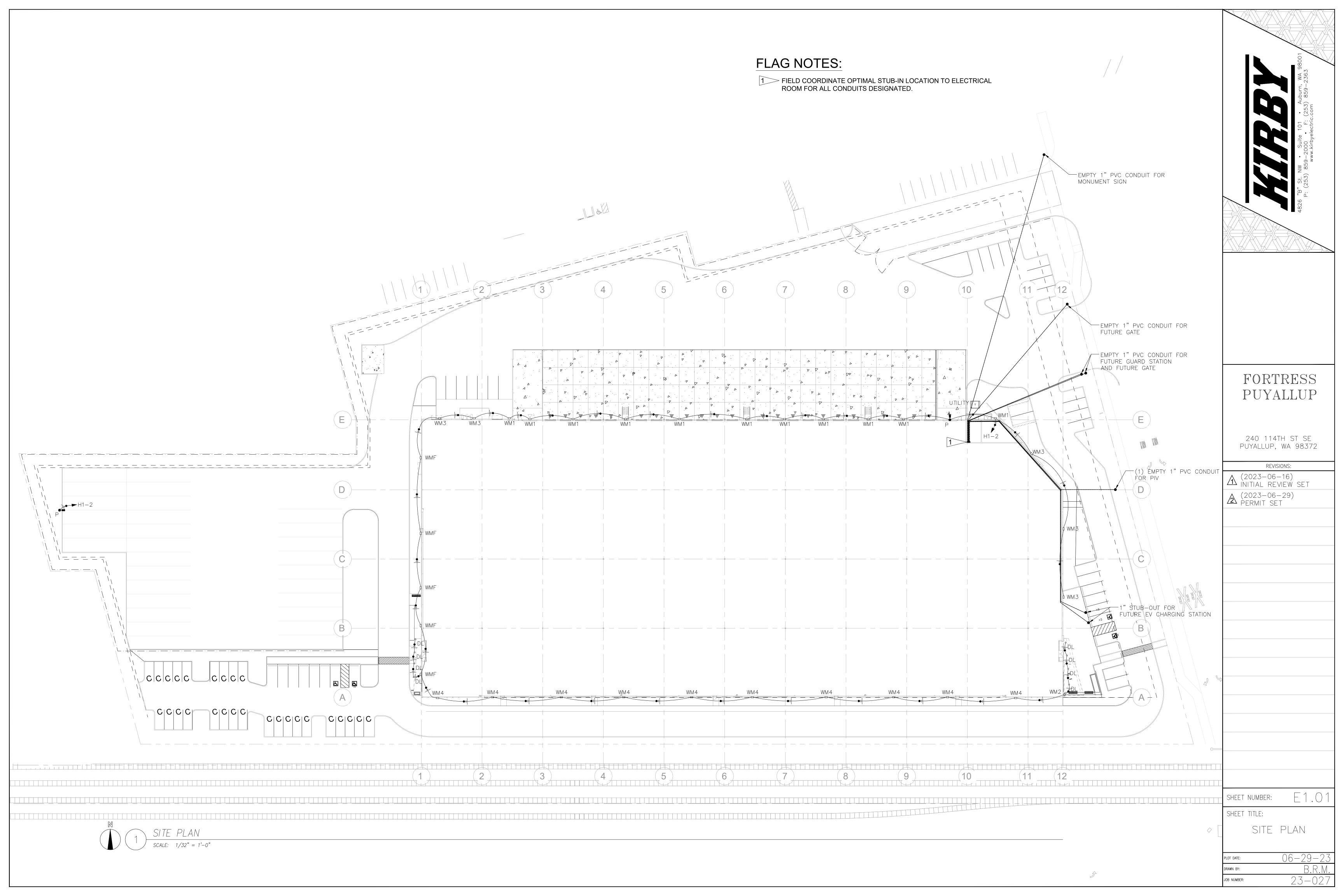
JOB NUMBER: 23-027

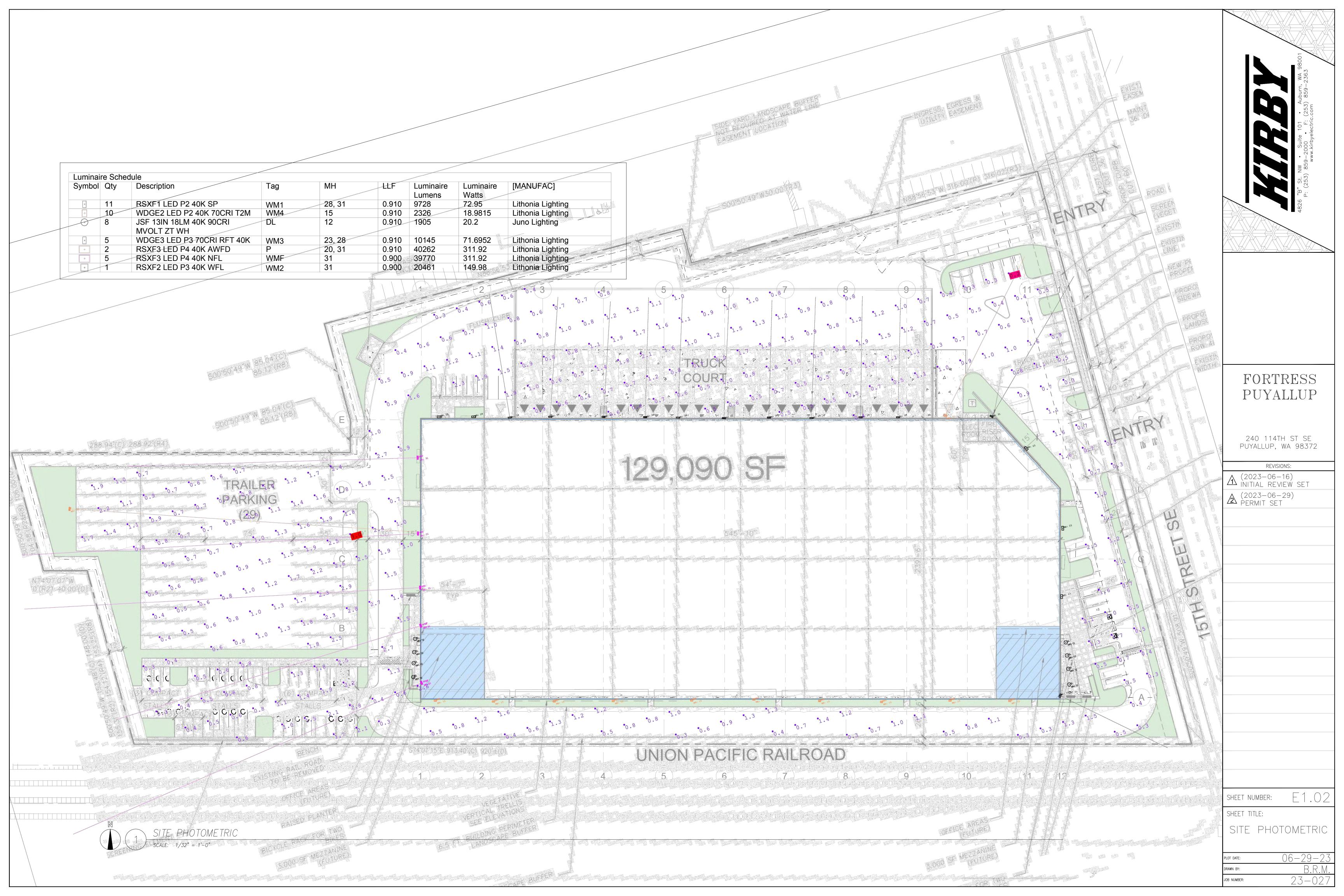
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Lighting, Motor and Electrical Requirements List, pg 1 of 10	Lighting, Motor and Electrical Requirements List, pg 2 of 10	Lighting, Motor and Electrical Requirements List, pg 3 of 10	Lighting, Motor and Electrical Requirements List, pg 4 of 10	Lighting, Motor and Electrical Requirements List, pg 5 of 10	. Au 253)
2018 WSEC Requirements for Commercial Buildings including Group R2, R3 & R4 over 3 stories & all R1 — Administered by ©2023 NEEA, All rights reserved The following information is necessary to check a permit application for compliance with the lighting systems, motors and electrical system requirements in the Washington State Energy Code, Commercial Provisions.	2018 WSEC Requirements for Commercial Buildings including Group R2, R3 & R4 over 3 stories & all R1 Administered by ©2023 NEEA, All rights reserved The following information is necessary to check a permit application for compliance with the lighting systems, motors and electrical system requirements in the Washington State Energy Code, Commercial Provisions.	The following information is necessary to check a permit application for compliance with the lighting systems, motors and electrical system requirements in the Washington State Energy Code, Commercial Provisions.	The following information is necessary to check a permit application for compliance with the lighting systems, motors and electrical system requirements in the Washington State Energy Code, Commercial Provisions.	The following information is necessary to check a permit application for compliance with the lighting systems, motors and electrical system requirements in the Washington State Energy Code, Commercial Provisions.	101 F: (
For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com Project: Fortress - Puyallup - 2018 WSEC 240 11th St SE	For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com NA C405.2.1.2 Occupant sensor Indicate each aisleway and corridor within a	For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com NA C405.2.4 Daylight responsive Indicate on plans lighting zone(s) served by	For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com NA Indicate method of manual lighting control and applicable support lighting control	For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com C406.4 Enhanced digital To comply with additional efficiency credit,	Suite 000 ·
Puyallup, WA 98372 Date: 2023-06-29	YES controls - warehouses space are designated as separate zones that are independently controlled Indicate occupant sensors are configured to E0.01, E6.01	controls daylight responsive controls; indicate that the area served by each control device does not exceeds 2,500 sf	YES C405.2.5, Means of egress Identify on plans egress fixtures that function as both normal and emergency means of	lighting controls indicate on plans that interior lighting fixtures are configured with all of the following control functions, as applicable: 1) Each fixture is individually addressed, or exception	9-200 www.k
Applies Code Section Component Compliance Information Required In Permit Documents Documents LIGHTING SCOPE Component Component Document	automatically reduce lighting power by 50% when the zone is unoccupied and 100% off after the zone is unoccupied for over 20 minutes; indicate controls are configured to	NA Identify sidelit and toplit daylight zones that are not provided with daylight sensing controls and the exception(s) that apply	YES Provide calculation of lighting power density of total egress lighting	taken; 2) Fixtures are configured for continuous dimming; 3) No more than eight fixtures are controlled by a single daylight	3) 85 3) 85
C103.1 Construction For a shell & core or tenant space (first build-documents - General out) project, indicate if there is no lighting	automatically restore lighting to full power when the zone or space is occupied	NA C405.2.4.1.1 Daylight responsive controls Indicate on plans the lighting load reduction method (continuous dimming, or stepped dimming that provides at least two even steps	YES If total egress lighting power density is greater than 0.02 W/sq. ft., indicate on plans egress fixtures requiring automatic shut-off during	sensor; 4) In enclosed and open office areas, illumination levels of overhead general area lighting is configured to be individually adjusted by occupants	"B" St
C103.1 Construction documents - General docume	NA C405.2.1.3 Occupant sensor controls - open plan office areas larger than 300 sf, indicate general lighting is provided with vacancy controls that reduce lighting power by not less than 80% and are configured to turn	NA C405.2.4.1 Daylight responsive controls Indicate that daylight sensing controls are configured to completely shut off all	noccupied periods NA Indicate method of automatic shut-off control	Include calculations that demonstrate the total lighting power of all interior lighting fixtures configured with enhanced lighting controls is	1826 1826 1826
LIGHTING CONTROLS YES C405.2 Lighting controls, For all lighting fixtures, indicate lighting E0.01, E1.01, E3.01,	luminaires 100% off when the space is unoccupied; indicate that no individual control zone area exceeds 600 sf	NA C405.2.5 Additional controls - Specific application that require specific application lighting fixtures on plans that require specific application lighting	NA C405.4.1 Lighting control of C405.4.2 Lighting control of exempt interior lighting located within spaces that are eligible for a lighting power	no less than 90% of the total interior lighting power for the area the enhanced lighting controls credit is being applied to	
general control method on plans for spaces and lighting zone(s) served, or exception taken C405.2, Luminaire level Indicate on plans all fixtures provided with	C405.2.1.4 Occupant sensor controls - parking garage general lighting is provided with vacancy controls that reduce lighting power by not less than 30% and are	NA C405.2.5, Display and accent lighting provided that control display, accent lighting provided that control display, accent lighting	exemption are controlled independently from non-exempt and general area lighting NA C405.2.6 Exterior lighting For decorative exterior lighting, indicate on	INTERIOR LIGHTING POWER & EFFICACY YES C405.4.1 Total connected Include all luminaires in interior lighting E0.01, E5.01, E6.01	
Option 2 lighting controls LLLC in lieu of C405.2 lighting controls; (LLLC) provide description of control capabilities and performance parameters	configured to turn luminaires 100% off when no vehicles or pedestrians are present, unless eligible for an exception; indicate that no individual control zone area exceeds 3,600 sf	and display case lighting independently from both general area lighting and other lighting applications within the same space	nA controls plans automatic daylight shut-off controls, or exception taken For exterior lighting that is not decorative,	C405.4.2 interior lighting power fixture schedule; indicate fixture types, lamps, ballasts, and manufacturer's watts per fixture for the installed lamp	
C405.2.5, Lighting in dwelling Indicate method of automatic control of all installed luminaires in dwelling units in C405.2.1.1 hotel and all other buildings other than multifamily (occupancy	NA C405.2.1.5 Occupant sensor controls - enclosed fire-rated stairwells lindicate stairway lighting is provided with vacancy controls that reduce lighting power by not less than 50% when the stairway in	NA Indicate manual and automatic (occupant sensor or time switch) lighting control methods	indicate on plans automatic daylight or time- switch shut-off controls and setback controls; or indicate exception taken	YES Identify spaces eligible for lighting power exemption on plans and in WSEC interior lighting compliance reports; indicate the exception applied E0.01, E5.01, E6.01	
C405.2.3.1 than multifamily) or light reduction controls) C405.2.5, Lighting in sleeping units Indicate method of automatic off control of all installed luminaires in sleeping units	YES C405.2.2.1 Automatic time Indicate spaces on plans where time switch E0.01, E6.01	C405.2.5, Hotel/motel guest Indicate method of automatic control - vacancy or captive key control of all installed luminaires and switched receptacles in guest	YES For lighting requiring setback controls, include control sequence that reduces lighting power by at least 30% between 12am-6am, or	YES Identify lighting equipment eligible for lighting power exemption in fixture schedule E0.01, E5.01, E6.01	
YES C405.2.3 Manual controls Indicate on plans the method of manual E0.01, E1.01, E3.01,	NA switch controls controls turn luminaires 100% off during unoccupied hours Indicate spaces on plans where time switch	NA C405.2.5, Supplemental task Indicate method and location of manual and lighting automatic shut-off control (occupant sensor or	from 1 hour after closing to 1 hour before opening, or based upon motion sensor NA For building facade and landscape lighting,	and in WSEC interior lighting compliance reports; indicate the exception applied C405.1 Lighting in dwelling For all installed luminaires, include lamp type	
C405.2.3.1 lighting control, location of manual control device and the area or specific application it serves	NA controls are configured to turn on lighting to full power versus 50% power Indicate locations of override switches on	time switch) for supplemental task lighting, including under-shelf or under-cabinet lighting	indicate control sequence for shut-off control is based on dawn-to-dusk and business opening/closing schedule; indicate whether automatic or time switch controls will be	C405.1.1 units (multifamily) and number of lamps in lighting fixture schedule; for lamps that are not LED, T-8 or small diameter fluorescent, indicate efficacy of other lamp types is 65 lumens per watt or	
NA C405.2.3.1 Manual interior light C405.2.1.1 reduction controls C405.2.4 Indicate on plans which method of manual 50% lighting load reduction is provided, or indicate applicable exception	plans and the lighting zone(s) served; indicate that the area(s) served by each override switch does not exceeds 5,000 sf	NA C405.2.5, Lighting equipment for sale or general area lighting equipment for sale or demonstration independently from both general area lighting	NA C405.5.2 Lighting control of Indicate that exempt exterior lighting and	greater For all installed luminaires, indicate in lighting fixture schedule whether complying	
YES C405.2.1 Method of automatic Shut-off control Shut-off control during unoccupied periods (occupancy sensor, time switch or digital	NA C405.2.1, Exception 3 Digital timer switch Indicate digital timer switch control includes: manual on/off, time delay, audible and visual indication of impending time-out	and other lighting applications within the same space NA Indicate manual and automatic (occupant	exempt exterior lighting located within exterior areas/surfaces lighting that eligible for a lighting power exemption are controlled independently from non- exempt exterior lighting	via lighting fixture schedule whether complying via lighting power density or by qualifying lamp type; if by lamp type, include number of lamps	
YES C405.2.1 Occupant sensor controlls Controlled by occupant sensor controlls C405.2.1 E0.01, E6.01	NA C405.2.4.2 Daylight zones - Indicate primary and secondary sidelit daylight zone floor areas on plans NA Indicate primary and secondary sidelit daylight zone floor areas on plans	sensor or time switch) lighting control methods NA C405.2.5, Lighting for non- Identify all eligible non-visual lighting	NA C405.5.4 Exterior gas-fired lighting appliances Indicate ignition system is a method other then continuously burning pilot light	For all installed luminaires, indicate in lighting fixture schedule whether complying via lighting power density or by qualifying	
indicate controls are configured to turn luminaires 100% off when the space is unoccupied	plans NA For small vertical fenestration assemblies	Item 4 visual applications applications on plans; indicate that the area served by each control device does not exceeds 4,000 sf	YES C405.2.7 Area controls - Master control switch(es) intended to control multiple independent switches; circuit breaker may not power limit be used as a master control switch	lamp type; if by lamp type, include number of lamps INTERIOR LIGHTING POWER CALCULATION - INDICATE COMPLIANCE PATH TAKEN	FORTRESS
NA C405.2.1 Occupant sensor Indicate if occupant sensor controls are configured to be manual on or automatic on to not more than 50% power; indicate spaces	(rough opening less than 10 percent of primary daylight zone floor area) where daylight responsive controls are not required, provide fenestration area to daylight zone	NA Indicate on plans that non-visual lighting are controlled independently from both general area lighting and other lighting applications	YES Verify that no 20 amp circuit controlled by a single switch or automatic control is loaded E5.01	NO C405.4.2.1 Building Area Demonstrate that total proposed wattage per building area does not exceed maximum	PUYALLUP
eligible for exception that allows automatic on to 100% power	floor area calculation(s)	within the same space	additional efficiency credit - enhanced interior lighting controls	allowed wattage per building area; identify locations of building areas on plans; provide WSEC exterior lighting compliance reports	
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Lighting, Motor and Electrical Requirements List, pg 6 of 10	Lighting, Motor and Electrical Requirements List, pg 7 of 10	Lighting, Motor and Electrical Requirements List, pg 8 of 10	Lighting, Motor and Electrical Requirements List, pg 9 of 10	Lighting, Motor and Electrical Requirements List, pg 10 of 10	240 114TH ST SE PUYALLUP, WA 98372
Lighting, motor and Electrodi Requirements List, pg 0 or 10	Lighting, motor and Licotrodi Requirements List, pg 7 or 10	Lighting, motor and Electrical Requirements Elst, pg o or 10	Lighting, motor and Electrical Requirements List, pg 5 or 10	Eighting, motor and Eicothoar Rogan Chichts Eist, pg 10 or 10	
2018 WSEC Requirements for Commercial Buildings including Group R2, R3 & R4 over 3 stories & all R1 — Administered by ©2023 NEEA, All rights reserved The following information is necessary to check a permit application for compliance with the lighting systems, motors and electrical system requirements in the Washington State Energy Code, Commercial Provisions	The following information is necessary to check a permit application for compliance with the lighting systems, motors and electrical system requirements in the		2018 WSEC Requirements for Commercial Buildings including Group R2, R3 & R4 over 3 stories & all R1 Administered by ©2023 NEEA, All rights reserved The following information is necessary to check a permit application for compliance with the lighting systems, motors and electrical system requirements in the	2018 WSEC Requirements for Commercial Buildings including Group R2, R3 & R4 over 3 stories & all R1 Administered by ©2023 NEEA, All rights reserved The following information is necessary to check a permit application for compliance with the lighting systems, motors and electrical system requirements in the	REVISIONS:
The following information is necessary to check a permit application for compliance with the lighting systems, motors and electrical system requirements in the Washington State Energy Code, Commercial Provisions. For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com	The following information is necessary to check a permit application for compliance with the lighting systems, motors and electrical system requirements in the Washington State Energy Code, Commercial Provisions. For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com	The following information is necessary to check a permit application for compliance with the lighting systems, motors and electrical system requirements in the Washington State Energy Code, Commercial Provisions. For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com	2018 WSEC Requirements for Commercial Buildings including Group R2, R3 & R4 over 3 stories & all R1 Administered by @2023 NEEA, All rights reserved. The following information is necessary to check a permit application for compliance with the lighting systems, motors and electrical system requirements in the Washington State Energy Code, Commercial Provisions. For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com	2018 WSEC Requirements for Commercial Buildings including Group R2, R3 & R4 over 3 stories & all R1 Administered by ©2023 NEEA, All rights reserved The following information is necessary to check a permit application for compliance with the lighting systems, motors and electrical system requirements in the Washington State Energy Code, Commercial Provisions. For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com	REVISIONS: - (2023-06-16) INITIAL REVIEW SET
The following information is necessary to check a permit application for compliance with the lighting systems, motors and electrical system requirements in the Washington State Energy Code, Commercial Provisions. For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com YES C405.4.2.2 Space-By-Space Method Demonstrate that total proposed wattage does not exceed maximum allowed wattage; identify locations of space types on plans, including retail display areas and areas with	The following information is necessary to check a permit application for compliance with the lighting systems, motors and electrical system requirements in the Washington State Energy Code, Commercial Provisions. For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com NA Demonstrate that proposed wattage per non-tradable surface type does not exceed maximum allowed wattage per non-tradable surface type (including base site allowance	The following information is necessary to check a permit application for compliance with the lighting systems, motors and electrical system requirements in the Washington State Energy Code, Commercial Provisions. For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com C503.6.3 Lighting panel alterations Where a new interior and/or exterior lighting panel is installed or an existing panel is moved (all new raceway and conductor wiring), indicate all applicable lighting controls	2018 WSEC Requirements for Commercial Buildings including Group R2, R3 & R4 over 3 stories & all R1 Administered by ©2023 NEEA, All rights reserved. The following information is necessary to check a permit application for compliance with the lighting systems, motors and electrical system requirements in the Washington State Energy Code, Commercial Provisions. For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com YES C405.6 Electrical Include electrical transformer schedule on electrical plans; indicate transformer type, size, efficiency, or exception taken	2018 WSEC Requirements for Commercial Buildings including Group R2, R3 & R4 over 3 stories & all R1 Administered by ©2023 NEEA, All rights reserved The following information is necessary to check a permit application for compliance with the lighting systems, motors and electrical system requirements in the Washington State Energy Code, Commercial Provisions. For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com NA C408.1.2 C408.1.2.1 C408.1.2.1 C408.1.2.1 C408.1.2.1 C408.1.2.1 C408.1.3.2 Include general summary of Cx plan per C408.1.2 including: 1) Narrative description of activities; 2) Responsibilities of the Cx team; 3) Schedule of activities including	(2023-06-16) INITIAL REVIEW SET (2023-06-29)
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For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com techsupport@waenergycodes.com YES C405.6 Electrical transformers Include electrical transformer schedule on electrical plans; indicate transformer type, size, efficiency, or exception taken YES C405.7 Dwelling unit electrical energy consumption C405.8 Electric motor efficiency C405.8 Electric motor efficiency Electric motor efficiency To recept a plans; including fractional hp motors, in electrical plans; indicate motor type, horsepower, rpm, rated efficiency, or exception applied C405.9.1 Elevator cabs For luminaires in each elevator cab, provide calculations that demonstrate average efficacy is not less than 35 lumens per watt For elevators that do not have an integral air conditioning system, indicate rated watts per cfm for elevator cab waltation fans when elevator is stopped and unoccupied for a period of 15 minutes or more LC405.9.2 Escalators and moving walks A715.I/CSA B44; automatic controls are	2018 WSEC Requirements for Commercial Buildings including Group R2, R3 & R4 over 3 stories & all R1 Administered by @2023 NEEA, All rights reserved The following information is necessary to check a permit application for compliance with the lighting systems, motors and electrical system requirements in the Washington State Energy Code, Commercial Provisions. 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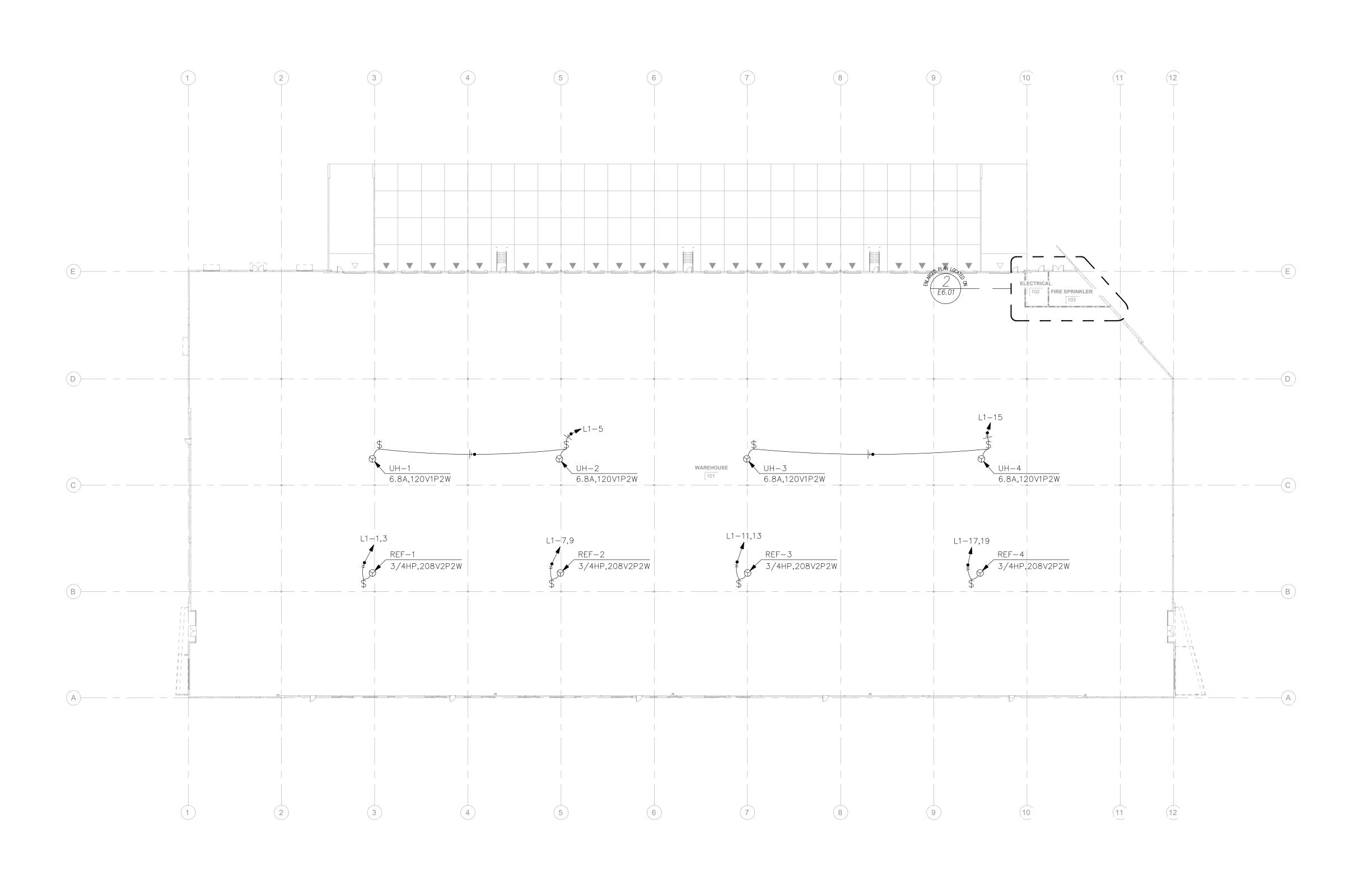
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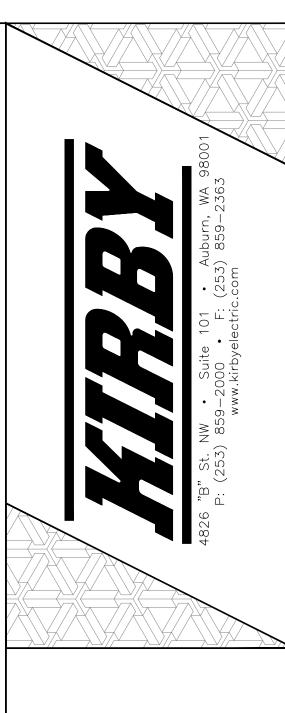
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B.R.M. 23-027









FORTRESS PUYALLUP

240 114TH ST SE PUYALLUP, WA 98372

REVISIONS:

(2023-06-16)
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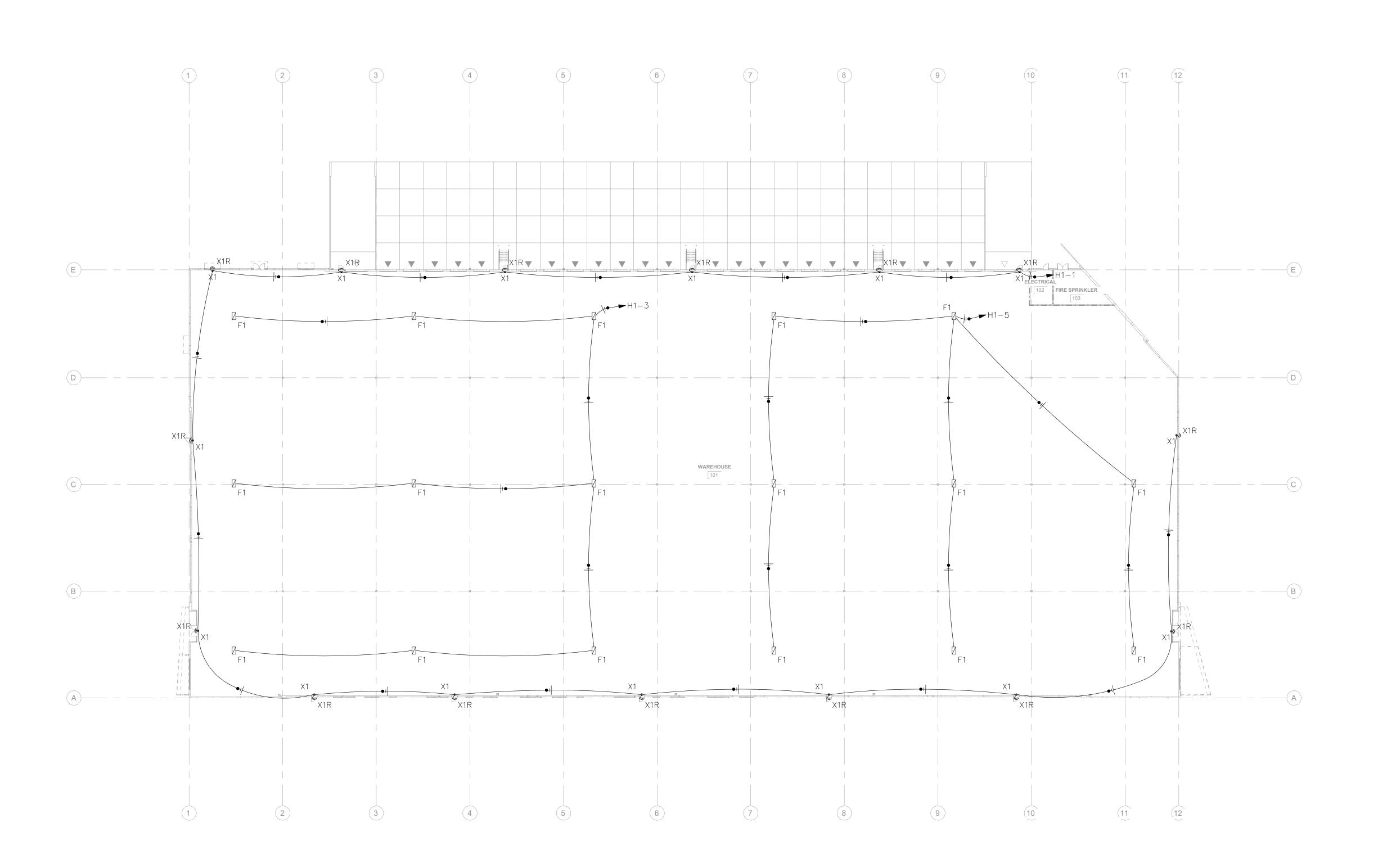
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PERMIT SET

SHEET NUMBER: E2.01

SHEET TITLE:

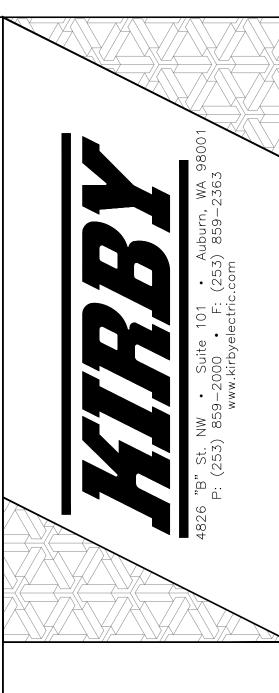
POWER PLAN

PLOT DATE: 06-29-23DRAWN BY: B.R.M.
JOB NUMBER: 23-027



1 LIGHTING PLAN

SCALE: x/xx" = 1'-0"



FORTRESS PUYALLUP

240 114TH ST SE PUYALLUP, WA 98372

REVISIONS:

(2023-06-16)
INITIAL REVIEW SET

(2023-06-29)
PERMIT SET

SHEET NUMBER: E3.01

SHEET TITLE:

LIGHTING PLAN

PLOT DATE: 06-29-23

DRAWN BY: B.R.M.

JOB NUMBER: 23-027

GENERAL PHOTOMETRIC SCHEDULE

AVERAGE TO MINIMUM 21.01

AVERAGE
FOOT—CANDLES

MAXIMUM
FOOT—CANDLES

MINIMUM
FOOT—CANDLES

MINIMUM TO MAXIMUM
FC RATIO

MAXIMUM TO MINIMUM
FC RATIO

MAXIMUM TO MINIMUM
FC RATIO

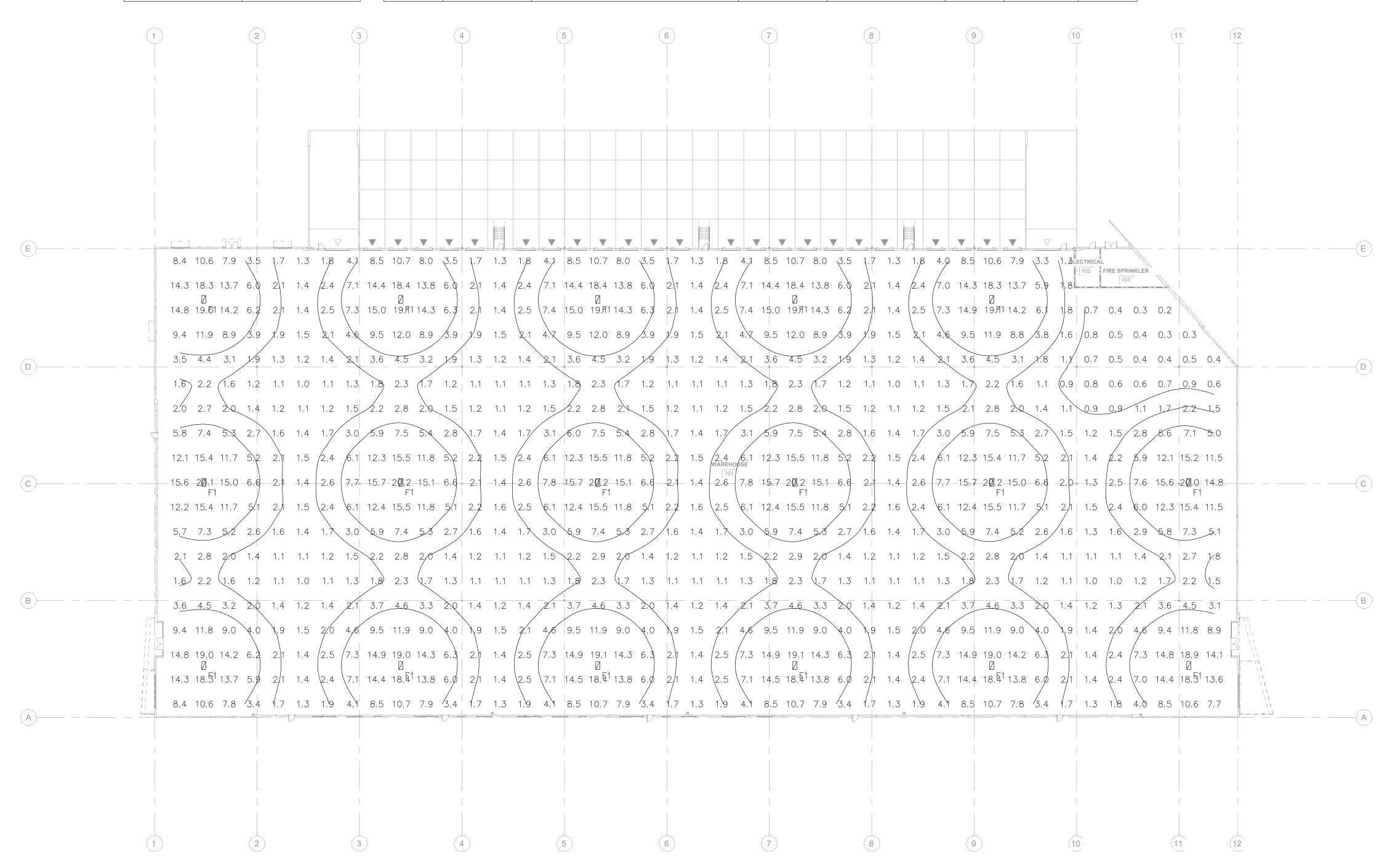
82.49

CALCULATION SETTINGS

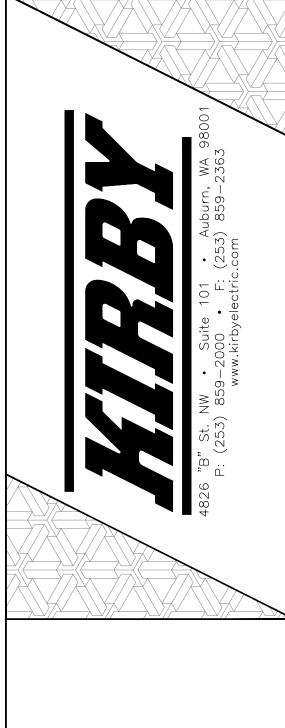
L	0112002111			
	CEILING HEIGHT	LIGHT FIXTURE HEIGHT	CALCULATION HEIGHT	FOOTCANDLE SPACING
	+40'	+36'	+3'	12'-6"

INTERIOR PHOTOMETRIC LUMINAIRE SCHEDULE

INTERIOR PHOTOMETRIC LUMINAIRE SCHEDULE								
CALLOUT	SYMBOL	DESCRIPTION	MOUNTING	MODEL	WATTAGE	VOLTS	QUANTITY	
F1		HIGHBAY	SUSPENDED	ENVISION LED-LHB-4FT-3P320W	325.01	MULTIPLE	17	







FORTRESS PUYALLUP

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	REVISIONS.
\triangle	(2023-06-16) INITIAL REVIEW SET
<u>^</u>	(2023-06-29) PERMIT SET

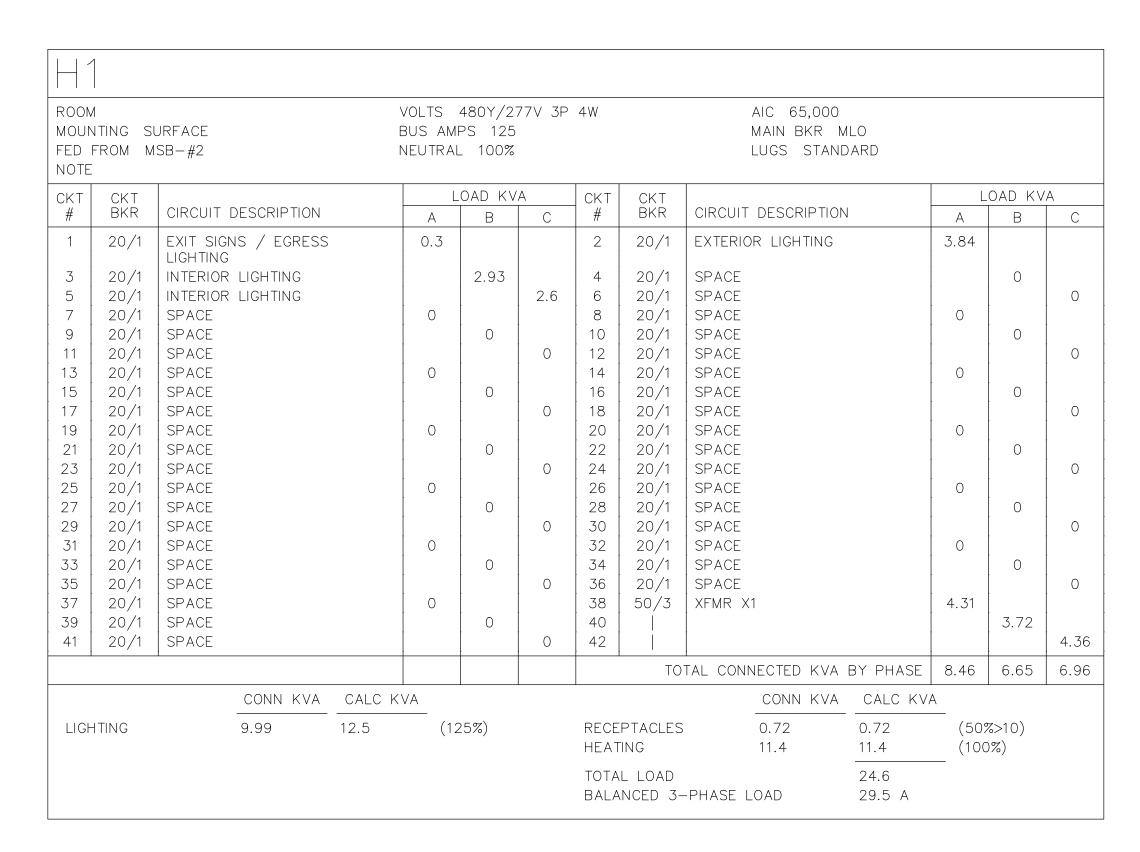
SHEET NUMBER: F.3 ()

SHEET TITLE:

INTERIOR

PHOTOMETRIC

PLOT DATE:	06-29-23
DRAWN BY:	B.R.M.
IOD NUMBER	07 007



	ITING SI FROM X	URFACE 1	VOLTS BUS AM NEUTRAI	PS 100		4W		AIC 65,000 MAIN BKR 100 LUGS STANDARD			
CKT	CKT		L	OAD KV	A	CKT	CKT		L	OAD KV	A
#	BKR	CIRCUIT DESCRIPTION	А	В	С	#	BKR	CIRCUIT DESCRIPTION	А	В	С
1	20/2	REF-1	0.828			2	20/1	ELEC RM. RECEPTACLE	0.18		
3				0.828		4	20/1	PHONEBOARD RECEPTACLE		0.18	
5	20/1	UH-1, UH-2			1.62	6	20/1	FIRE RECEPTACLE			0.18
7	20/2	REF-2	0.828			8	20/1	IRRIGATION RECEPTACLE	0.18		
9				0.828		10	20/1	ELEC RM. LIGHTING		0.316	
11	20/2	REF-3			0.828	12	20/1	EWH-1			1.5
13			0.828			14	20/1	SPACE	0		
15	20/1	UH-3, UH-4		1.62		16	20/1	SPACE		0	_
17	20/2	REF-4			0.828	18	20/1	SPACE	_		0
19		05.4.05	0.828			20	20/1	SPACE	0		
21	20/1	SPACE		0		22	20/1	SPACE		0	
23	20/1	SPACE			0	24	20/1	SPACE			0
25	20/1	SPACE	0			26	20/1	SPACE	0		
27	20/1	SPACE		0		28	20/1	SPACE		0	
29 31	20/1	SPACE SPACE			0	30 32	20/1	SPACE SPACE	0		0
33	20/1 20/1	SPACE	0	0		34	20/1 20/1	SPACE		0	
35	20/1	SPACE			0	36	20/1	SPACE			0
37	20/1	SPACE	0			38	20/1	SPACE	0		
39	20/1	SPACE		0		40	20/1	SPACE		0	
41	20/1	SPACE			0	42	20/1				0
		1					ТО	TAL CONNECTED KVA BY PHASE	3.67	3.77	4.96
		CONN KVA CALC	KVA		<u> </u>	L		CONN KVA CALC KV	Α		<u> </u>
LIGH	HTING	0.316 0.395	(12	25%)		RECE HEAT	PTACLES ING	0.72 0.72 11.4 11.4	— (50) (10)	%>10) 0%)	
						TOTA	L LOAD	12.5 -PHASE LOAD 34.6 A			



FORTRESS PUYALLUP

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REVISIONS:
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SHEET NUMBER: E5.01

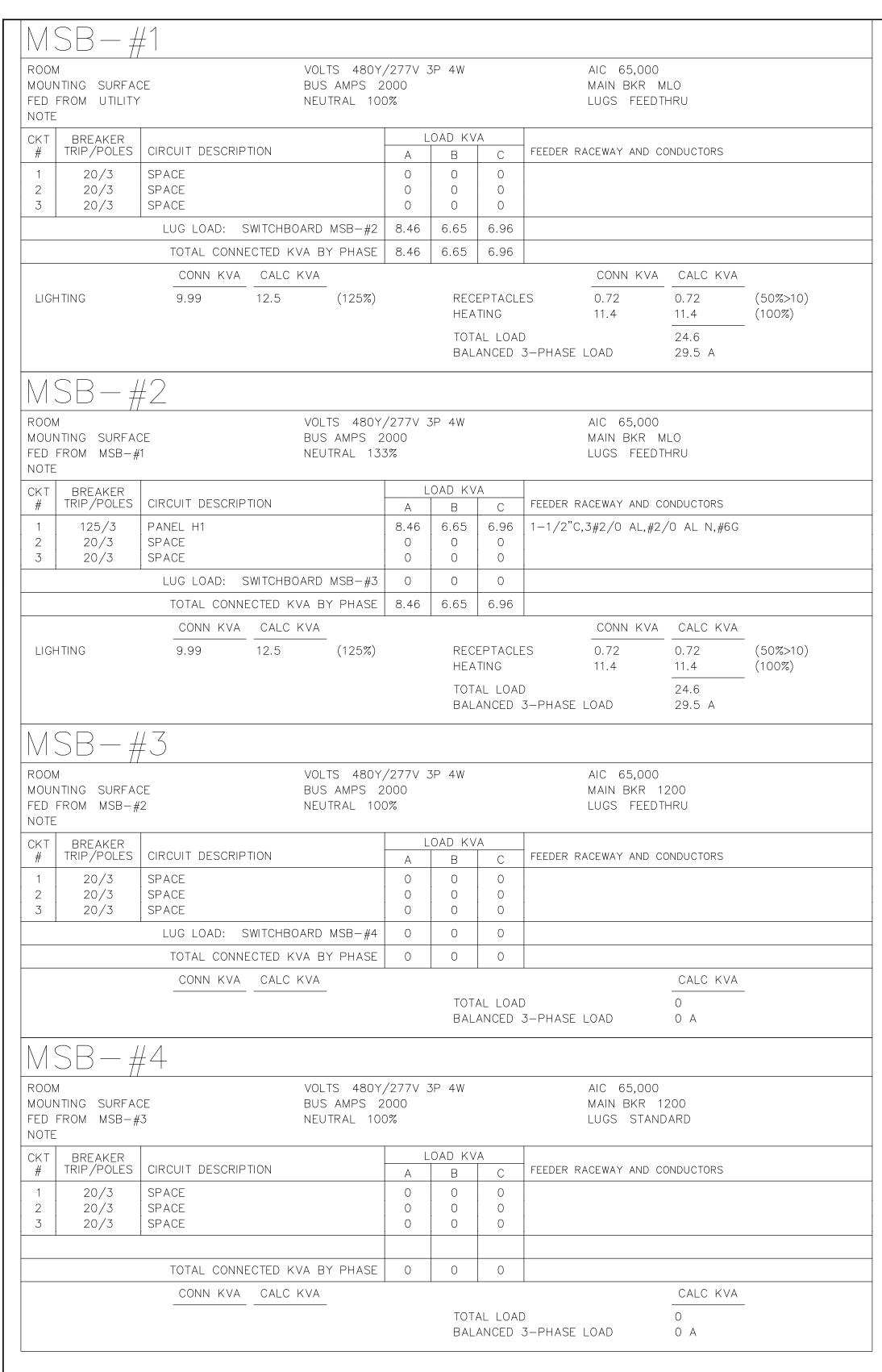
SHEET TITLE:

ot date: 06-29-23

PANEL SCHEDULES

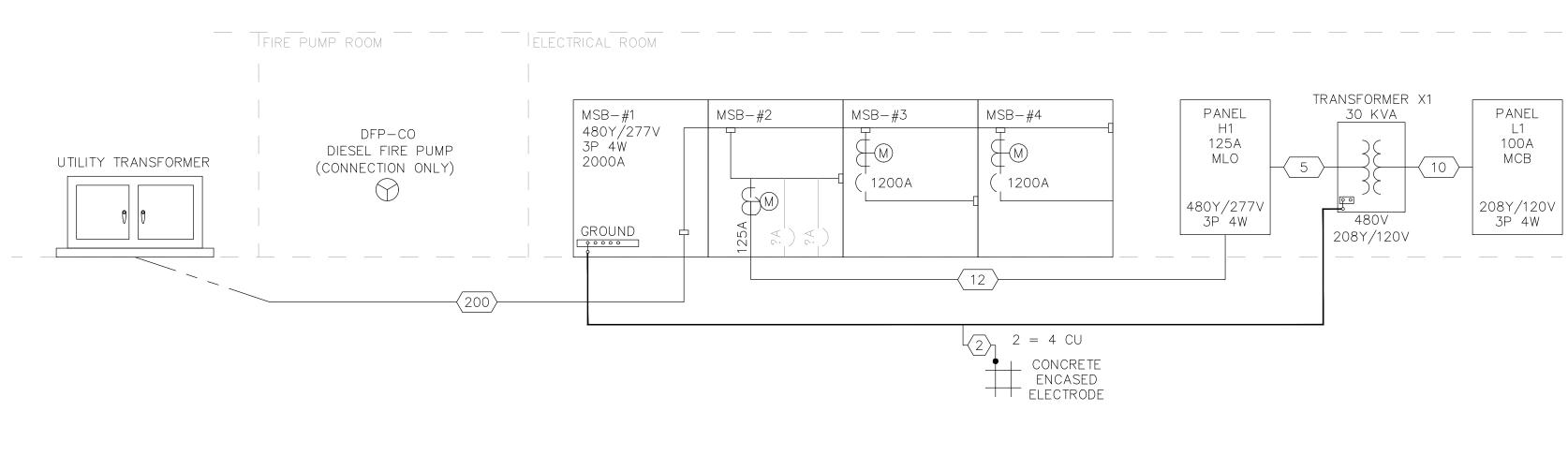
DRAWN BY: B.R.M.

JOB NUMBER: 23-027



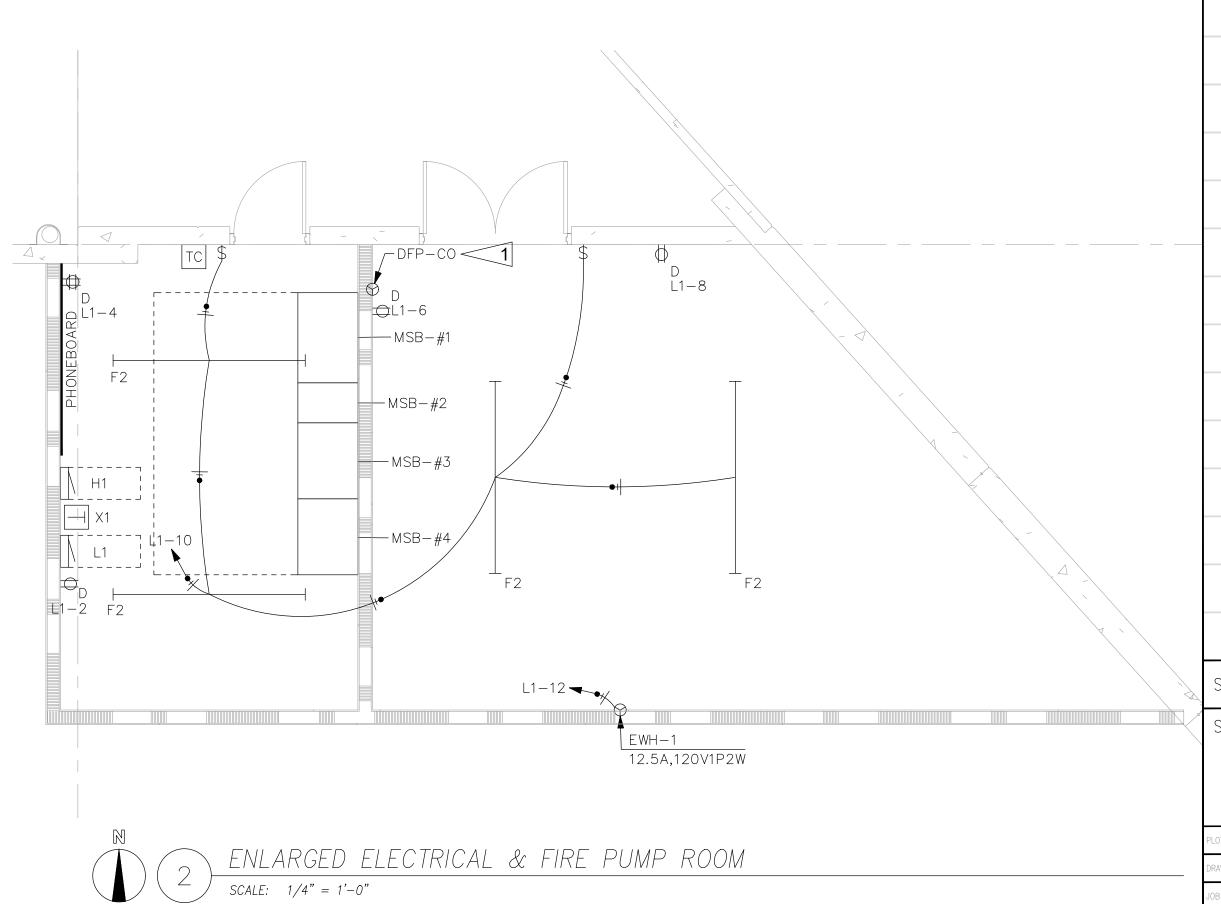
ONE-LINE RISER DIAGRAM

FEEDER SCHEDULE						
ID	FEEDER AMPS	CONDUIT AND FEEDER				
(5)	50	1"C,3#4 AL,#10G				
(10)	100	1-1/2"C,3#1/0 AL,#1/0 AL N,#6G				
(12)	125	1-1/2"C,3#2/0 AL,#2/0 AL N,#6G				
200	2000	(6)4"C,3#600kcmil AL,#600kcmil AL N				



FLAG NOTES:

DIESEL FIRE PUMP, POWER CONNECTION ONLY.
FIRE PUMP TO BE PROVIDED BY TENANT.



4826 "B" St. NW · Suite 101 · Auburn, WA 98001 P: (253) 859–2000 · F: (253) 859–2363 www.kirbyelectric.com

FORTRESS PUYALLUP

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REVISIONS:

(2023-06-16)
INITIAL REVIEW SET

(2023-06-29)
PERMIT SET

SHEET NUMBER: E6.0

SHEET TITLE:

ONE-LINE RISER

DIAGRAM

PLOT DATE: 06-29-23DRAWN BY: B.R.M.

NUMBER: 23-027