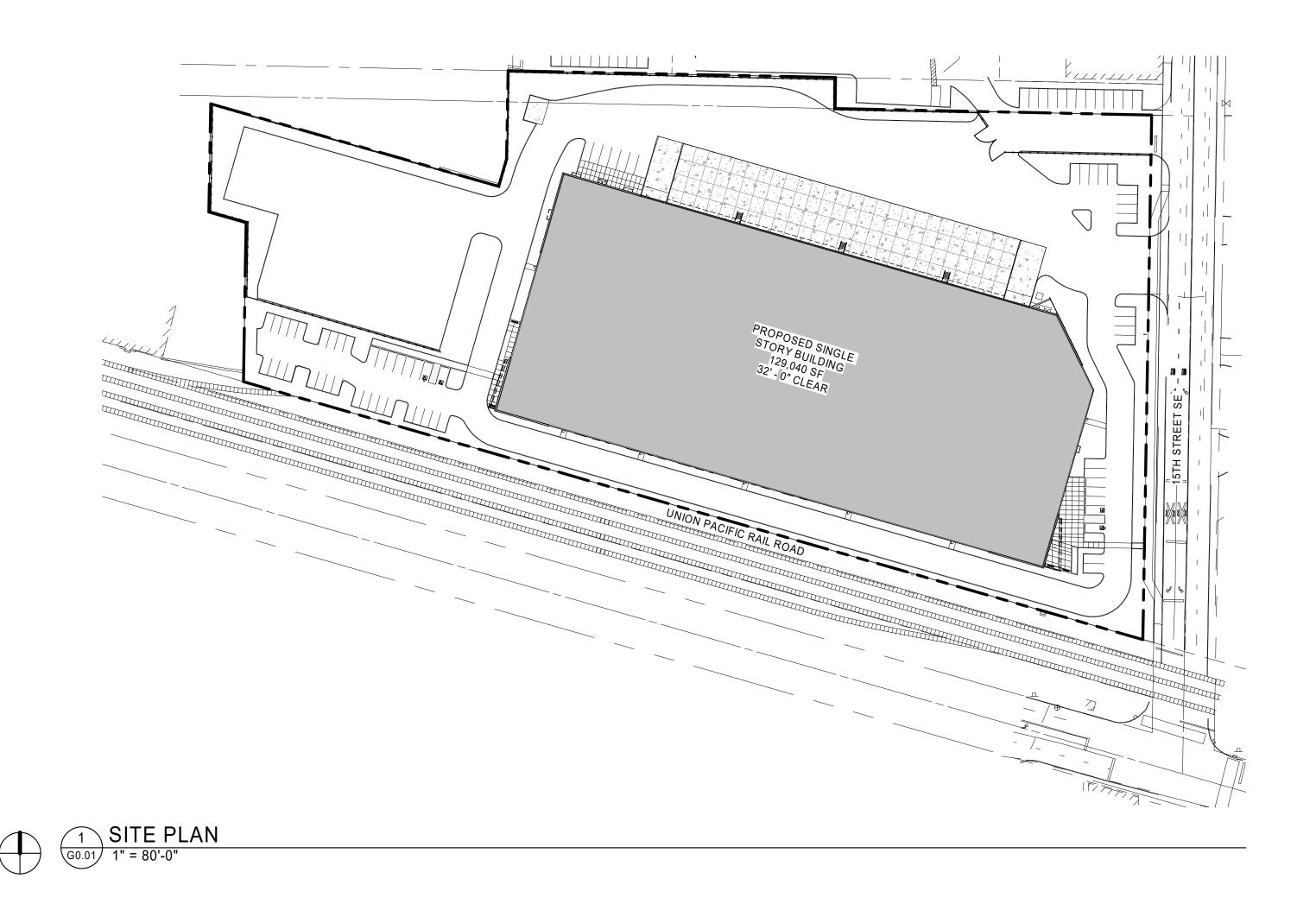
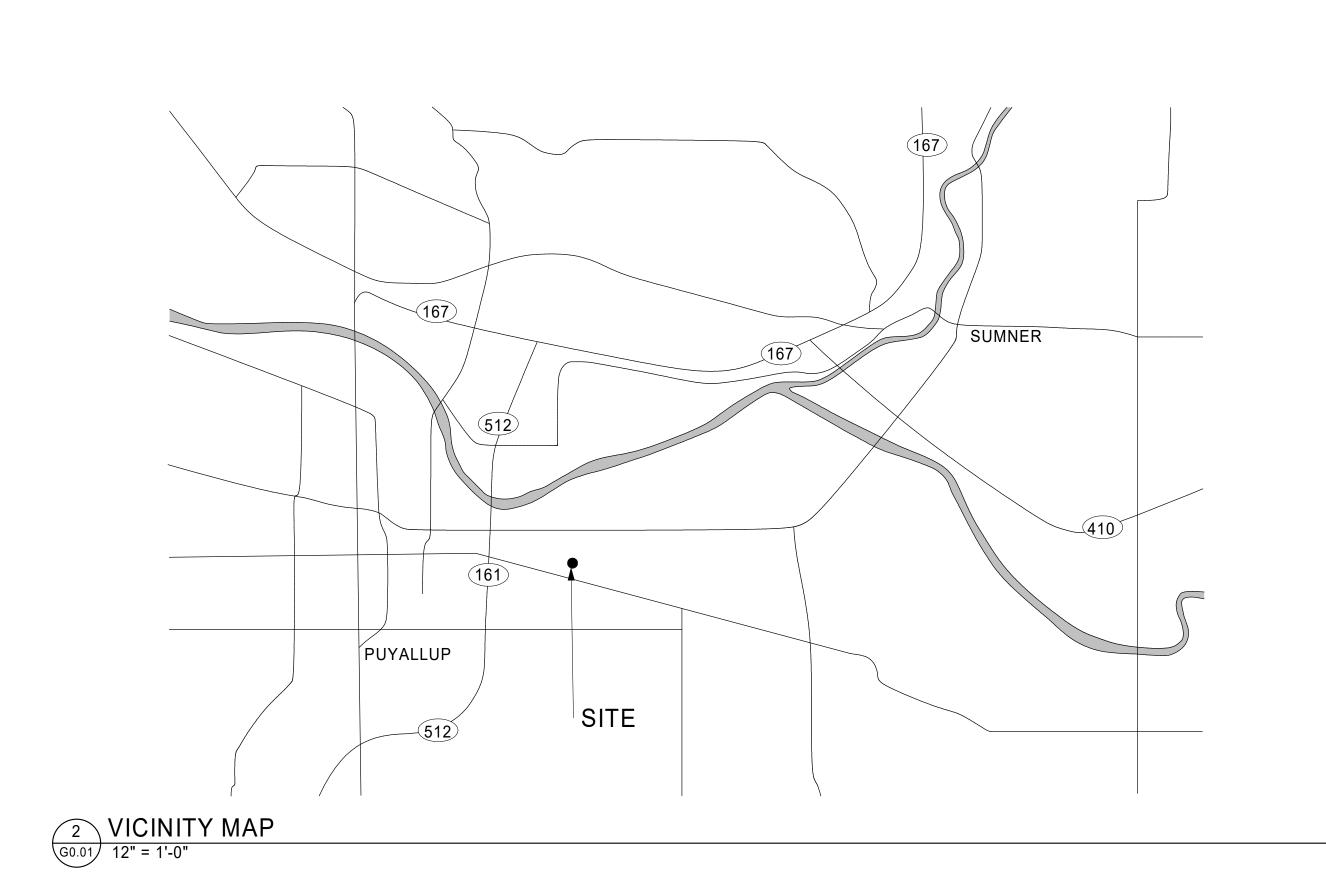
# CREF3 PUYALLUP OWNER LLC

240 15TH ST SE PUYALLUP WA, 98372

PERMIT SET – JUNE 28, 2023







### OWNER

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

MACKENZIE LOGAN BUILDING 500 UNION ST., STE. 410 SEATTLE, WA 98101

PHONE: (206) 749-9993 CONTACT: ANDY TATKOWSKI EMAIL: ART@MCKNZE.COM

### CIVIL

**BARGHAUSEN** 

18215 72ND AVE S PHONE: (425) 251-6222 CONTACT: JÁSON 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

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

### GEOTECHNICAL REPORT

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

### **PERMITS**

GRADING AND TESC PERMIT APPLICATION:

### **DEFERRED SUBMITTALS**

DESIGN BUILD STAIRS LOADING DOCK CANOPIES

### **SEPARATE PERMITS**

DESIGN BUILD FIRE SPRINKLER DESIGN BUILD FIRE ALARM PUBLIC WORKS UNDERGROUND FIRE LINES 23-0623 Plans-combined G0.01 Underground fire lines must be included in site civil permits.

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.

### DRAWING INDEX

TITLE SHEET AND DRAWING INDEX PROJECT GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS

### STRUCTURAL DRAWINGS

STRUCTURAL GENERAL NOTES TYPICAL DETAILS

CODE ANALYSIS PLAN

FOUNDATION PLAN ROOF FRAMING PLAN

**EXTERIOR WALL ELEVATIONS** 

TILT FOUNDATION DETAILS TILT DETAILS TILT DETAILS

SITE PLAN

### ARCHITECTURE DRAWINGS

ARCHITECTURAL GENERAL NOTES AND SYMBOLS

23-0623 Plans-combined G0.01

proposed per code.

Design Build deferred submittal proposed by McKenzie

compliance. include exit capacity from electrical room, exit

illumination, exit signage, energy code compliance and EV as

Architects. Provide electrical plans that detail code

FIRST FLOOR PLAN BUILDING ELEVATIONS

BUILDING INSULATION ELEVATIONS **BUILDING SECTIONS** 

WALL SECTIONS WALL SECTIONS ENLARGED PLANS

METAL ACCENT, ENLARGED PLANS & DETAILS EXTERIOR DETAILS

EXTERIOR DETAILS EXTERIOR DETAILS

DOOR AND WINDOW SCHEDULE

STOREFRONT AND ENTRY DETAILS A5.17 ROOF DETAILS & INTERIOR DETAILS

### MECHANICAL DRAWINGS

WAREHOUSE HVAC PLAN NOTES, LEGEND, AND SCHEDULES

PLUMBING DRAWINGS

P-1.0 WATER AND SEWER PLAN

**CREF3 PUYALLUP OWNER LLC** 11611 SAN VICENTE BLVD.

MACKENZIE 2023 ALL RIGHTS RESERVED THESE DRAWINGS ARE THE PROPERTY OF MACKENZIE AND ARE NOT TO BE USED OR REPRODUCED IN ANY MANNER, WITHOUT PRIOR WRITTEN PERMISSION

REVISION SCHEDULE

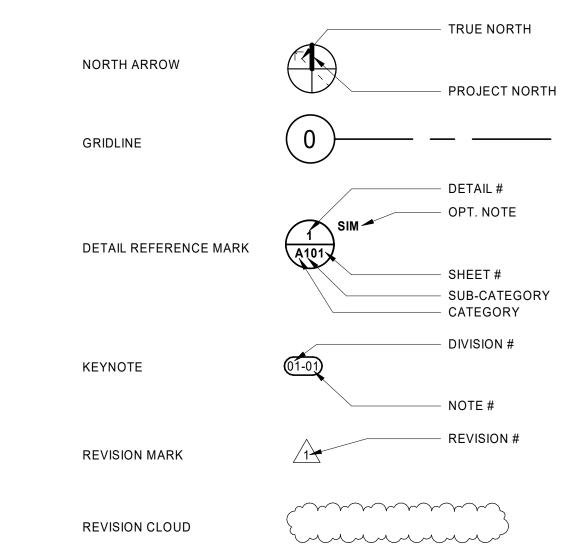
SHEET TITLE: TITLE SHEET

AND DRAWING

### STANDARD ABBREVIATIONS

<b>@</b>	AT	EOP	EDGE OF PANEL	ı	ANGLE	R	RADIUS
@ AB	ANCHOR BOLT	EP	EPOXY PAINT / EDGE OF PAVEMENT	LAM	LAMINATE	RAD	RADIUL
AC	ASPHALTIC CONCRETE	EPDM	ETHYLENE PROPYLENE DIENE	LAV	LAVATORY	RB	RUBBER BASE
ACI	AMERICAN CONCRETE INSTITUTE	El 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
	STRUCTURAL STEEL	EXP	EXPOSED STRUCTURE	LSL	LAMINATED STRAND LUMBER	REINF	REINFORCING
AFF	ABOVE FINISH FLOOR	EXP JT / EJ	EXPANSION JOINT	LVL	LAMINATED VENEER LUMBER	REQ / REQ'D	REQUIRED
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	EXT	EXTERIOR	LWC	LIGHTWEIGHT CONCRETE	REV	REVISION
AL / ALUM	ALUMINUM	F/	FACE OF		Managa	RM	ROOM
ALT	ALTERNATE	F/ F/STUD	FACE OF FACE OF STUD	M M/F/D	MIRROR	RO	ROUGH OPENING
APPROX	APPROXIMATE	FB	FLAT BAR	M/E/P	MECHANICAL/ ELECTRICAL/ PLUMBING OR PROCESS	ROW	RIGHT OF WAY
ARCH	ARCHITECT(URAL)	FC	FACE OF CURB	MANF	MANUFACTURER	S	STAIN
ATR	ALL-THREAD ROD	FD	FLOOR DRAIN	MAS	MASONRY	SAT	STAIN SUSPENDED ACOUSTICAL TILE
		FDC	FIRE DEPARTMENT CONNECTION	MATL	MATERIAL	SC	SEALED CONCRETE / SOLID CORE
B/	BOTTOM OF	FE	FIRE EXTINGUISHER	MAX	MAXIMUM	30	WOOD
BATT	BATTEN INSULATION	FF	FACTORY FINISH / FINISHED FACE	MB	MACHINE BOLT	SCHED	SCHEDULE
BD	BOARD	FFE	FINISH FLOOR ELEVATION	MDF/MDO	MEDIUM DENSITY FIBERBOARD /	SCM	STRUCTURAL CLAY MASONRY
BLD / BLDG	BUILDING	FIN	FINISH(ED)		OVERLAY	SF	STORE FRONT / SQUARE FEET
BLK	BLOCK	FL	FLUSH	MECH	MECHANICAL	SFRS	SEISMIC FORCE RESISTING SYSTEM
BLKG	BLOCKING	FLR	FLOOR	MFD	MANUFACTURED	SHTG / SHT'G	SHEATHING
BM	BENCHMARK / BEAM	FM	FACTORY MUTUAL	MFG	MANUFACTURING	SIM	SIMILAR
BN	BOUNDARY NAIL	FN	FIELD NAILING	MFR	MANUFACTURER	SLRS	SEISMIC LOAD RESISTIVE SYSTEM
BOT / BOTT	BOTTOM	FND	FOUNDATION	MGR	MANAGER	SLV	SHORT LEG VERTICAL
BRG	BEARING	FOC	FACE OF CONCRETE	MH	MAN HOLE	SMS	SHEET METAL SCREW
BSMT	BASEMENT	FOF	FACE OF FINISH	MIN	MINIMUM	SOG	SLAB ON GRADE
BTWN	BETWEEN	FOIC	FURNISH BY OWNER INSTALL BY	MISC	MISCELLANEOUS	SP	SPACE(D)(S)
BUR	BUILT UP ROOFING	5014	CONTRACTOR	MK	MARK	SPEC(S)	SPECIFICATION(S)
OAD	CARINET	FOM	FACE OF MASONRY	MLP	METAL LINEAR PANEL	SQ	SQUARE
CAB	CATCLLBACIN	FOS	FACE OF WALL	MODERIT	MASONRY OPENING	SS	STAINLESS STEEL / SOLID SURFACE
CB	CATCH BASIN	FOW	FACE OF WALL	MOD BIT	MODIFIED BITUMINOUS	ST	STONE
CDF CIP	CONTROLLED DENSITY FILL CAST IRON	FS FT	FAR SIDE FEET/FOOT FIRE TREATED	MP MTL	METAL PANEL METAL	STA PT	STATION POINT
CJ	CONTROL JOINT	FTG	FOOTING	IVIIL	WETAL	STAGG	STAGGERED
CL /	CENTROL JOINT	FIG	FOOTING	/NI\	NEW	STD	STANDARD
CLNG	CEILING	GA	GAUGE	(N) NFPA	NATIONAL FIRE PROTECTION AGENCY	STIFF	STIFFENER
CLR	CLEAR	GALV	GALVANIZED	NIC	NOT IN CONTRACT	STL	STELL
CMP	CORRUGATED METAL PIPE	GEN	GENERAL	NO. / #	NUMBER	STRUCT SUSP	STRUCTURAL SUSPENDED
CMU	CONCRETE MASONRY UNIT	GLB	GLULAM BEAM	NOM	NOMINAL	SV	SHEET VINYL
CNTR	CENTER	GLZ	GLAZING	NR	NON RATED	34	SHEET VINTE
CO	CLEAN OUT	GR	GRADE	NS	NEAR SIDE	Т	TEMPERED
COL	COLUMN	GRD	GRID ONLY	NTE	NOT TO EXCEED	T&B	TOP AND BOTTOM
CONC	CONCRETE	GSA	U.S. GENERAL SERVICES	NTS	NOT TO SCALE	T/	TOP OF
CONF	CONFERENCE		ADMINISTRATION			TC	TOP OF CURB
CONN	CONNECTION	GYP BD	GYPSUM BOARD	O/A	OVERALL	TEMP	TEMPERATURE / TEMPORARY
CONN	CONNECTION			OC	ON CENTER	THK	THICK / THICKNESS
CONST	CONSTRUCTION	HB	HOSE BIB	OD	OUTSIDE DIAMETER	TL	TOTAL LOAD
CONT	CONTINUOUS	HC	HOLLOW CORE / HANDICAP	OFCI	OWNER FURNISHED, CONTRACTOR	TN	TOE NAIL
CONTR	CONTRACTOR	HCM	HOLLOW CLAY MASONRY		INSTALLED	TO	TOP OF
COORD	COORDINATE	HDPE	HIGH DENSITY POLYETHELENE	OFOI	OWNER FURNISHED, OWNER INSTALLED	TOF	TOP OF FOOTING
CORR	CORRUGAT(ED) (ION)	HDR	HEADER	ОН	OPPOSITE HAND	TOS	TOP OF STEEL
CPT	CARPET	HDWR	HARDWARE	OHD	OVERHEAD DOOR	TOW	TOP OF WALL
CRC	CHEMICAL RESISTANT COATING	HGR	HANGER HALF LITE	OPNG	OPENING	TPO	THERMOPLASTIC POLYOLEFIN
CSK	COUNTERSINK	HL HM	HOLLOW METAL	OPP	OPPOSITE	TRANS / TRANSV	
CSP	CONCRETE SEWER PIPE	HMK	HOLLOW METAL KNOCKDOWN	OSF / O/FACE	OUTSIDE FACE	TS	TUBE STEEL
CTOP	COUNTERTOP	HMW	HOLLOW METAL WELDED	OSSC	OREGON STRUCTURAL SPECIALTY	TYP	TYPICAL
CTR / CNTR CW	CENTER CONCRETE WALL	HORIZ	HORIZONTAL	-	CODE	11/0	LINDEDCIDE
<b>∪</b> v v	OUNDINE IE WALL	HR(S)	HOUR(S)	OTS	OPEN TO STRUCTURE	U/S	UNDERSIDE
d	PENNY(NAILS)	HS	HEADED STUD			UC	UNDER COUNTER UNDER WRITERS LABORATORIES
DBA	DEFORMED BAR ANCHOR	HSB	HIGH STRENGTH BOLT	Р	PAINT	UL UNO / UON	UNLESS NOTED OTHERWISE
DBL	DOUBLE	HSS	HOLLOW STRUCTURAL STEEL	P-LAM	PLASTIC LAMINATE	USG	UNITED STATES GYPSUM
DC	DEMAND CRITICAL WELD	HTG	HEATING	P.E.	PROFFESSIONAL ENGINEER	555	5.4.1.2.5 51.4.1.2.5 GTT 501W
DET / DTL	DETAIL	HVAC	HEATING, VENTILATION AND AIR	PB (PAF	PARTICLE BOARD	VCT	VINYL COMPOSITION TILE
DET/DTL	DETAIL		CONDITIONING	PDA / PAF	POWDER DRIVEN ANCHORS/POWDER ACTUATED FASTENER	VERT	VERTICAL
DF	DRINKING FOUNTAIN / DOUGLAS FIR	HWS	HEADED WELD STUD	PJ	PANEL JOINT	VEST	VESTIBULE
DIA / ø	DIAMETER			PL/	PLATE	VFY	VERIFY
DIAPH	DIAPHRAGM	IBC	INTERNATIONAL BUILDING CODE	PLB	PARALLAM BEAM	VIF	VERIFY IN FIELD
DIM	DIMENSION	ID	INSIDE DIAMETER	PLMB	PLUMBING	VP	VISION PANEL
DL	DEAD LOAD	IE IF	INVERT ELEVATION INSIDE FACE	PLY / PLYWD	PLYWOOD		
DN	DOWN			PNL	PANEL	W/	WITH
DP	DEEP	IFC IMC	INTERNATIONAL FIRE CODE INTERNATIONAL MECHANCIAL CODE	PR	PAIR	W/CRC	COATING WITH CHEMICAL
DR	DOOR	INFO	INFORMATIONAL MECHANCIAL CODE	PS	POUR STRIP	111/2	RESISTANCE
DS	DOWN SPOUT	INSP	INSPECTION / INSPECTOR	PSF	POUNDS PER SQUARE FOOT	W/O	WITHOUT
DWG	DRAWING	INSUL	INSULATION	PSI	POUNDS PER SQUARE INCH	WB	WOOD BASE
DWLS	DOWELS	INT	INTERIOR	PSL	PARALLEL STRAND LUMBER	WC	WATER CLOSET / WALL COVERING
(E) / EVIOT	EVICTING	IPC	INTERNATIONAL PLUMBING CODE	PT	PRESSURE TREATED / PORCELAIN	WD	WOOD
(E) / EXIST	EXISTING EDGE OF	-		<b>_</b>	TILE	WF WH	WIDE FLANGE BEAM WATER HEATER
E/ EA	EACH	JNT	JOINT	PVC	POLY VINYL CHLORIDE	WH WP	WATER HEATER WATER PROOF / WOOD PANELING /
EF	EACH FACE	JST	JOIST	PVMT	PAVEMENT	v V I	WORK POINT
EIFS	EXTERIOR INSULATION FINISH					WR	WATER RESISTANT
	SYSTEM	K	KIPS			WRGB	WATER RESISTANT GYPSUM BOARD
ELECT	ELECTRICAL	KSF	KIPS PER SQUARE FOOT			WS	WATER STOP / WELDED STUD
ELEV	ELEVATION	KSI	KIPS PER SQUARE INCH			WWF	WELDED WIRE FABRIC
	EDOE MAII					WWR	WELDED WIRE MESH
EN	EDGE NAIL ENGINEER						

### SYMBOLS AND REFERENCES



### PROJECT GENERAL NOTES

APPROVED BY MACKENZIE.

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

Architecture - Interiors Planning - Engineering

> 503.224.9560 Vancouver, WA 360.695.7879 Seattle, WA 206.749.9993

www.mcknze.com

MACKENZIE. DESIGN DRIVEN | CLIENT FOCUSED

**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

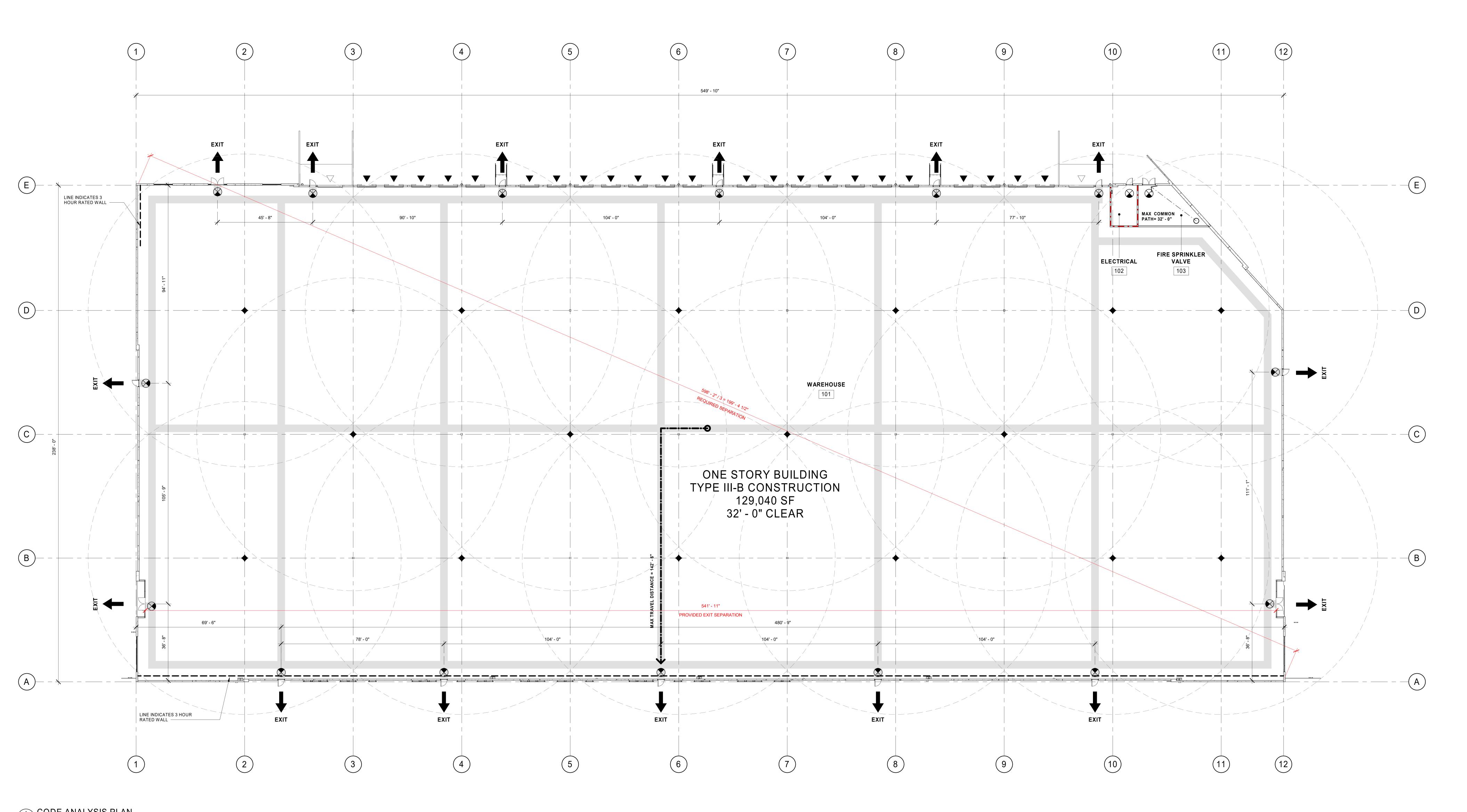


© MACKENZIE
2023 ALL RIGHTS RESERVED
THESE DRAWINGS ARE THE PROPERTY OF
MACKENZIE AND ARE NOT TO BE USED OR REPRODUCED IN ANY MANNER, WITHOUT PRIOR WRITTEN PERMISSION

REVISION SCHEDULE

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

JOB NO. **2220290.00** 



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:

- DDITIONAL 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.
- 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 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) OR LESS; (4) INCLUDE AIR BARRIER TEST REPORT IN PROJECT CLOSE OUT DOCUMENTATION PROVIDED TO BUILDING OWNER.
- 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.

TO COMPLY WITH ADDITIONAL EFFICIENCY PACKAGE C406 PROVIDE:

# 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

FIRE PROTECTION:

AUTOMATIC FIRE SPRINKLER SYSTEM (ESFR)

OCCUPANCIES:

THE BUILDING TO BE UNOCCUPIED UNDER THIS PERMIT. FUTURE OCCUPANCIES MAY

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 HOUR FIRE RATED.

# CHAPTER 9 - FIRE PROTECTION BASED ON 2018 WASHINGTON STATE FIRE CODE & 2018 WASHINGTON STATE

BUILDING CODE

WSFC SECTION 503 - FIRE APPARATUS ACCESS ROADS

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

WSFC SECTION 509.1 - IDENTIFICATION

ALL FIRE PROTECTION & UTILITY EQUIPMENT SHALL BE IDENTIFIED WITH APPROVED SIGNAGE CONSTRUCTED OF DURABLE MATERIALS AND BE READILY VISIBLE.

WSBC TABLE 601 - FIRE RESISTIVE REQUIREMENTS

EXTERIOR BEARING WALL 2-HR
INTERIOR BEARING WALL NR
EXTERIOR NON-BEARING WALL NR
INTERIOR NON-BEARING WALL NR

## FIRE PUMP ROOM (913.2.1) 2-HR WSBC SECTION 903 - AUTOMATIC SPRINKLER SYSTEMS FULLY SPRINKLERED ESFR FIRE SYSTEM

ACCORDANCE WITH NFPA 13.

STRUCTURAL FRAME

FLOOR

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)<sup>1/2</sup> 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
 <u>SECTION 1010: DOORS, GATES, AND TURNSTILES</u>
 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

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"

SECTION 1022: EXITS
COMPONENTS AND OPENINGS ARE SHOWN ON THIS SHEET AND INDIVIDUAL FLOOR PLANS.

SECTION 1028: EXIT DISCHARGE
ALL EXITS DISCHARGE AT THE GROUND LEVEL. SEE SITE PLAN

### 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

SHEET TITLE:

© MACKENZIE 2023 ALL RIGHTS RESERVED

THESE DRAWINGS ARE THE PROPERTY OF MACKENZIE AND ARE NOT TO BE USED

OR REPRODUCED IN ANY MANNER,

WITHOUT PRIOR WRITTEN PERMISSION

REVISION SCHEDULE

Delta Issued As Issue Date

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

G1.10

Autodesk Docs://Fortress-Puyallup/290-Fortress-Puyallup-V23-A.rvt 6/28/2023 2:46:55 PM As indicated

### GENERAL STRUCTURAL NOTES

1.	GOVERNING BUILDING CODE: 2018 INTERNATIONAL BUILDING CODE WITH WASHINGTON STATE AMENDMENTS
	RISK CATEGORY III
4.	ROOF
	GROUND SNOW (Pg)       20 PSF         FLAT ROOF SNOW LOAD (Pf)       14 PSF         SLOPED ROOF SNOW (Ps)       14 PSF         IMPORTANCE FACTOR       1.0         (SNOW BUILD-UP IN ACCORDANCE w/ IBC)
5.	WIND  BASIC WIND SPEED (3 SECOND GUST)
	EXPOSURE
<b>S</b> .	SEISMIC         0.2 SEC. SPECTRAL RESPONSE ACCELERATION (Ss)         1.264           1.0 SEC. SPECTRAL RESPONSE ACCELERATION (S1)         0.435           DESIGN SPECTRAL ACCELERATION (SDS)         0.843           DESIGN SPECTRAL ACCELERATION (SD1)         0.538
	SITE CLASSIFICATION
	IMPORTANCE FACTOR
	R
	BASE SHEAR (V)
	* 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

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 SHALL BE PROVIDED.
 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.
 ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE LATEST EDITION OF THE

4. SEE ARCHITECTURAL DRAWINGS INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
A. SIZE AND LOCATION OF ALL OPENINGS, EXCEPT AS NOTED.
B. SIZE AND LOCATION OF ALL INTERIOR AND EXTERIOR NONBEARING WALLS
C. SIZE AND LOCATION OF ALL CONCRETE CURBS, FLOOR DRAINS, SLOPES, DEPRESSED AREAS, CHANGES IN LEVEL, CHAMFERS, GROOVES, INSERTS, ETC.

D. SIZE AND LOCATION OF ALL FLOOR AND ROOF OPENINGS, EXCEPT AS SHOWN.
E. FLOOR AND ROOF FINISHES.
F. STAIR FRAMING AND DETAILS, EXCEPT AS SHOWN.
G. DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS.

INTERNATIONAL BUILDING CODE WITH AMENDMENTS.

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 NOTED.
B. ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS IN WALLS AND SLABS.
C. CONCRETE INSERTS FOR FIXTURES.

D. SIZE AND LOCATION OF MACHINE OR EQUIPMENT BASES, ANCHOR BOLTS FOR MOTOR MOUNTS.
E. 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

ABOVE ITEMS.
OPENINGS, POCKETS, ETC. SHALL NOT BE PLACED IN STRUCTURAL ELEMENTS UNLESS SPECIFICALLY DETAILED OR APPROVED BY THE STRUCTURAL ENGINEER.
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.

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 INSTANCE.
 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

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.
 CONTRACTOR WILL PROVIDE FOR DE-WATERING OF EXCAVATIONS FROM EITHER SURFACE, GROUND, OR SEEPAGE WATER.
 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.

AND EXISTING CONDITIONS. NOTIFY EOR OF ANY DISCREPANCIES PRIOR TO EXCAVATION AND FOOTING INSTALL.

12. CONTINUOUS FOOTINGS AT VARYING ELEVATIONS SHALL BE STEPPED PER TYPICAL DETAILS. SLOPING OF FOOTINGS IS PROHIBITED.

13. UTILITIES MAY NOT BE PLACED THROUGH OR BELOW FOUNDATION WITHOUT PRIOR APPROVAL BY THE FOR

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

### 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:

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

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 PROVIDED.
15. PROVIDE SLEEVES FOR PLUMBING AND ELECTRICAL OPENINGS IN CONCRETE BEFORE PLACING. CORING

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).

THROUGH CONCRETE IS NOT PERMITTED EXCEPT WHERE SHOWN. NOTIFY THE STRUCTURAL ENGINEER IN

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 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" FOR SLABS ON GRADE.

C. 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 TABLE 19.3.3.1
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

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

STRUCTURAL WOOD

5000 PSI.

ALL STRUCTURAL SHEATHING SHALL BE FABRICATED WITH EXTERIOR GLUE CONFORMING TO U.S. PRODUCTS STANDARD PS-1 FOR CONSTRUCTION AND INDUSTRIAL SHEATHING.
 ALL FRAMING MEMBERS AND SHEATHING SHALL BE GRADE MARKED.
 FRAMING MEMBERS SHALL CONFORM TO THE FOLLOWING GRADES UNO ON PLANS:

 STUDS
 DF-L. STUD OR BETTER

BOLT HOLES SHALL NOT BE LESS THAN 7x DIA. FROM THE END AND 4x DIA. FROM THE EDGE OF THE MEMBER, UNLESS NOTED OTHERWISE.
 BOLTS USED IN WOOD SHALL BE A307.
 PRE-DRILL NAIL HOLES WHERE NECESSARY TO PREVENT SPLITTING.

PRE-DRILL NAIL HOLES WHERE NECESSARY TO PREVENT SPLITTING.
 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.
 GLU-LAMINATED MEMBERS SHALL BE A COMBINATION OF 24F-1.8E-V4 (DF-L) INDUSTRIAL GRADE, AND EXTERIOR GLUE, UNLESS NOTED OTHERWISE ON PLAN.

GLU-LAMINATEDS COLUMNS SHALL BE 2-DF-L2 (DF-L).
 ALL SUSPENDED LOADS FROM SUBPURLINS ARE PROHIBITED WITHOUT PRIOR APPROVAL FROM ENGINEER.
 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.
 WHERE DIAPHRAGM AND SHEARWALL SHEATHING NAILING IS LESS THAN 3" ON CENTER USE 3x FRAMING AND

U.N.O.

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

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 THICKNESS.
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

INSTALL BRIDGING/BLOCKING IN LIGHT-GAGE STEEL STUD WALLS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND AS SHOWN IN THE DRAWINGS.
 WELD LIGHT-GAGE STEEL FRAMING CONNECTIONS, EXCEPT WHERE SELF- DRILLING SCREWS ARE SPECIFIED.
 WELDS SHALL CONFORM TO AWS SPECIFICATIONS, WELDERS SHALL BE CERTIFIED FOR LIGHT-GAGE.

WELDS SHALL CONFORM TO AWS SPECIFICATIONS. WELDERS SHALL BE CERTIFIED FOR LIGHT-GAGE STEEL UNDER AWS SPECIFICATIONS.
 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.
 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.

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 DIAMETER OF THE SCREW.

STRUCTURAL STEEL

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).
 STRUCTURAL STEEL PIPE SHALL CONFORM TO ASTM A53, GRADE B (Fy = 35 KSI). MILL TEST REPORTS FOR STEEL PIPE SHALL BE SUBMITTED FOR APPROVAL.
 HOLLOW STRUCTURAL SECTIONS SHALL CONFORM TO ASTM A500, GRADE C (Fy = 50 KSI RECTANGULAR, Fy = 46 KSI ROUND).
 ANCHOR BOLTS SHALL CONFORM TO ASTM F1554 GR 36, UNLESS NOTED OTHERWISE.
 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 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 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

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.

THAN 3/4"Ø USE A307. FOR BOLTS NOT INDICATED AS SLIP CRITICAL SNUG TIGHT CONNECTIONS ARE

AS SLIP-CRITICAL WITH FAYING SURFACES PREPARED AS CLASS A SURFACE PER AISC 360. FOR BOLTS LESS

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 MIDSPAN 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.
 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.

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 CONNECTIONS OR ATTACHMENTS ARE PERMITTED WITHIN PROTECTED ZONES.

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.

PLUMBING, AND SPRINKLER LOADS WITH THE JOIST DESIGNER.

OPEN WEB STEEL JOIST

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

POST-INSTALLED ANCHORS

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 5000 V3 ADHESIVE ANCHORS (ICC-ES REPORT ESR-3814)

HILTHIT-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)
 EXPANSION ANCHORS IN MASONRY SHALL BE ONE OF THE FOLLOWING:

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:
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)

POST INSTALLED ANCHORS WITHOUT PRIOR APPROVAL FROM A&E.

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

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

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

SPECIAL INSPECTION the IBC for the City of Puyallup.

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

WABO Certified inspectors meet screening requirements of

TESTING. SPECIAL INSPECTION SHALL BE PAID FOR AND PROVIDED BY THE OWNER. FREQUENCY MATERIAL RESPONSIBLE FIRM GRADING, EXCAVATING, & FILL GEOTECH OF RECORD TEST GEOTECH OF RECORD EARTHWORK FILL MATERIAL SOIL COMPACTION TEST GEOTECH OF RECORD REINFORCING STEEL, INCLUDING PRESTRESSING STEEL, AND INSP SPECIAL INSPECTOR USE OF REQUIRED CONCRETE INSP SPECIAL INSPECTOR SHAPE, LOCATION, & DIMENSIONS INSP SPECIAL INSPECTOR OF CONCRETE MEMBER CAST-IN-PLACE INSP SPECIAL INSPECTOR BOLTS INSTALLED IN CONCRETE REINFORCED CONCRETE SPECIAL INSPECTOR PLACEMENT ADHESIVE ANCHORS SPECIAL INSPECTOR EXPANSION ANCHORS INSP SPECIAL INSPECTOR SPECIFIED CURING TECHNIQUES INSP SPECIAL INSPECTOR CONCRETE MATERIALS TEST TESTING LAB NOTE 1 SHOP FABRICATION SHOP WELDING NOTE 1 STEEL FRAME FOR CONFORMANCE INSP SPECIAL INSPECTOR WITH CONSTRUCTION DOCUMENTS FIELD WELDED CONNECTIONS SINGLE-PASS FILLET WELDS INSP | SPECIAL INSPECTOR EQUAL TO OR LESS THAN 5/16" SINGLE-PASS FILLET WELDS SPECIAL INSPECTOR GREATER THAN 5/16" MULTI-PASS FILLET WELDS SPECIAL INSPECTOR PJP GROOVE WELDS SPECIAL INSPECTOR STRUCTURAL STEEL STEEL DECK, & PRECAST INSP SPECIAL INSPECTOR CJP CONCRETE DURING GROOVE INSP TESTING LAB TEST TESTING LAB AFTER DECK WELDS INSP SPECIAL INSPECTOR WELDING OF REINFORCING TEST | SPECIAL INSPECTOR HEADED STUDS TEST | SPECIAL INSPECTOR INSP SPECIAL INSPECTOR HIGH-STRENGTH BOLT INSTALLATION (BEARING TYPE) TEST TESTING LAB INSP SPECIAL INSPECTOR HIGH-STRENGTH BOLT INSTALLATION (SLIP-CRITICAL) TEST | TESTING LAB **ERECTION OF PRECAST CONCRETE** INSP SPECIAL INSPECTOR ALL SUB-PURLIN HANGERS INSP SPECIAL INSPECTOR LATERAL FORCE RESISTING MEMBERS NAILING ≤ 4" OC & STRAPPING INSP SPECIAL INSPECTOR OF SHEARWALLS. DIAPHRAGMS, & TOP CHORDS STRUCTURAL WOOD NAILING, BOLTING, ANCHORING, & FASTENING OF INSP SPECIAL INSPECTOR OTHER ELEMENTS GANG NAIL TRUSSES W/ SPAN INSP SPECIAL INSPECTOR > 60': MEMBER RESTRAINT BRACING INSTALLATION CONSTRUCTION OF MORTAR JOINTS INSP SPECIAL INSPECTOR GROUT SPACE PREPARATION INSP SPECIAL INSPECTOR TYPE, SIZE, & LOCATION OF REINF & INSP | SPECIAL INSPECTOR ANCHORAGES PLACEMENT OF GROUT SPECIAL INSPECTOR STRUCTURAL MASONRY COLD & HOT WEATHER INSP | SPECIAL INSPECTOR PROCEDURES **MORTAR & GROUT PROPORTIONS** INSP SPECIAL INSPECTOR GROUT & MORTAR SPECIMENS / INSP | SPECIAL INSPECTOR FIELD WELDED CONNECTIONS INSP | SPECIAL INSPECTOR ADHESIVE ANCHORS SPECIAL INSPECTOR **EXPANSION ANCHORS** INSP SPECIAL INSPECTOR INSP | SPECIAL INSPECTOR

SPECIAL CASES

OTES:

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.

FIELD WELDED CONNECTIONS

COLD-FORMED STEEL

METAL STAIRS, RAILINGS,

FIRE-RESISTIVE

MATERIAL

& HANDRAILS

LATERAL FORCE RESISTING MEMBERS

STRAPPING OF SHEARWALLS

DIAPHRAGMS, & TOP CHORDS

FASTENING < 4" OC &

BOI TING, ANCHORING, &

FASTENING OF OTHER

ADHESIVE ANCHORS

CONCRETE PLACEMENT

**CONCRETE MATERIALS** 

SPRAYED FIRE-RESISTIVE

**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

METAL FABRICATIONS, | EXPANSION ANCHORS

2. 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.

(N)	NEW	JST	JOIST
@	AT	IZ	KIDO
		K KN	KIPS
AB	ANCHOR BOLTS	KSF	KEYNOTE KIPS PER SQUARE FOOT
ACI	AMERICAN CONCRETE INSTITUTE	KSI	KIPS PER SQUARE INCH
ADDL	ADDITIONAL	NOI	RIFS FER SQUARE INCH
AESS	ARCHITECTURALLY EXPOSED	L	ANGLE
A = =	STRUCTURAL STEEL	LL	LIVE LOAD
AFF	ABOVE FINISHED FLOOR	LLH	LONG LEG HORIZONTAL
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	LLV	LONG LEG VERTICAL
ALT	ALTERNATE	LONG / LONGIT	
APPROX	APPROXIMATE	LSL	LAMINATED STRAND LUMBER
ARCH	ARCHITECT(URAL)	LVL	LAMINATED VENEER LUMBER
ATR	ALL-THREAD ROD		
		MAS	MASONRY
B/	BOTTOM OF	MATL	MATERIAL
BE	BOUNDARY ELEMENT	MAX	MAXIMUM
BLDG	BUILDING	MB	MACHINE BOLT
BLKG	BLOCKING	MECH	MECHANICAL
BM	BEAM	MFR / MANUF	MANUFACTURER
BN	BOUNDARY NAIL(ING)	MIN	MINIMUM
BOT / BOTT	BOTTOM	MISC	MISCELLANEOUS
BP	BASE PLATE	MTL	METAL
BRG	BEARING		
BTWN	BETWEEN	NIC	NOT IN CONTRACT
		NO / #	NUMBER
CFS	COLD FORMED STEEL	NOM	NOMINAL
CIP	CAST-IN-PLACE	NS	NEAR SIDE
CJ	CONTROL/CONTRACTION/	NTE	NOT TO EXCEED
	CONSTRUCTION JOINT	NTS	NOT TO SCALE
CL /	CENTER LINE		
CLR	CLEAR	OC	ON CENTER
CMU	CONCRETE MASONRY UNIT	OD	OUTSIDE DIAMETER
COL	COLUMN	OF / OSF	OUTSIDE FACE
CONC	CONCRETE	ОН	OPPOSITE HAND
CONN	CONNECTION	OPNG	OPENING
CONT	CONTINUOUS	OPP	OPPOSITE
CONTR	CONTRACTOR	OWWJ	OPEN WEB WOOD JOIST
COORD	COORDINATE		
CTR / CNTR	CENTER	PDA	POWER DRIVEN ANCHOR
٦.	DENINY (NATIO)	PERP	PERPENDICULAR
d DDA	PENNY (NAILS)	PJ	PANEL JOINT
DBA	DEFORMED BAR ANCHOR	PL/	PLATE
DBL	DOUBLE	PLB	PARALLAM BEAM
DC DET / DTL	DEMAND CRITICAL WELD	PLYWD / PLY	PLYWOOD
DET / DTL DFL	DETAIL DOUGLAS FIRM ARCH	PNL	PANEL
DIA / Ø	DOUGLAS FIR/LARCH	PS	POUR STRIP
DIAPH	DIAMETER DIAPHRAGM	PSF	POUNDS PER SQUARE FOOT
DIM	DIMENSION	PSI	POUNDS PER SQUARE INCH
DL	DEAD LOAD	PSL	PARALLEL STRAND LUMBER
DWG	DRAWING	PT	PRESSURE TREATED/POST TENSION
DWG	DIAWING	DEE	DEFEDENCE
E/	EDGE OF	REF	REFERENCE
EA	EACH	REINF	REINFORCING
EF	EACH FACE	REQ / REQD	REQUIRED
EFF	EFFECTIVE	REV	REVISION
EIFS	EXTERIOR INSULATION FINISH SYSTEM	SCHED	SCHEDULE
ELEC / ELECT	ELECTRICAL	SFRS	SCHEDULE SEISMIC FORCE RESISTING SYSTEM
ELEV	ELEVATION / ELEVATOR	SHTG / SHT'G	SHEATHING
EN	EDGE NAIL(ING)	SIM	SIMILAR
ENGR	ENGINEER	SLRS	SEISMIC LOAD RESISTIVE SYSTEM
EQ	EQUAL	SLV	SHORT LEG VERTICAL
ES	EACH SIDE	SMS	SHEET METAL SCREW
EW	EACH WAY	SOG	SLAB ON GRADE
EXIST / (E)	EXISTING	SP	SPACE (D)(S)
EXP JT / EJ	EXPANSION JOINT	SPEC(S)	SPECIFICATION
EXT	EXTERIOR	STAGG	STAGGERED
		STD	STANDARD
F/	FACE OF	STIFF	STIFFENER
FB	FLAT BAR	STL	STEEL
FHS	FULL HEIGHT STIFFENER	STRUCT	STRUCTURAL
FIN	FINISH(ED)		-
FLR	FLOOR	T&B	TOP & BOTTOM
FND	FOUNDATION	T/	TOP OF
FOW	FACE OF WALL	THK	THICK / THICKNESS
FS	FAR SIDE	THRU	THROUGH
FT	FEET / FOOT	TL	TOTAL LOAD
FTG	FOOTING	TN	TOE NAIL
		TRANS /	TRANSVERSE
GA	GAUGE	TRANSV	
GALV	GALVANIZED	TS	TUBE STEEL
GL	GLULAM	TYP	TYPICAL
GLB	GLULAM BEAM		
		UON / UNO	UNLESS OTHERWISE NOTED
HCM	HOLLOW CLAY MASONRY		

<u>ABBREVIATIONS</u>

<u>ABBREVIATIONS</u>

STRUCTURAL DEFERRED SUBMITTALS

HOLLOW CLAY MASONRY

HEATING, VENTILATION AND AIR

INTERNATIONAL BUILDING CODE

INSPECTION / INSPECTOR

HEADER

HANGER

HORIZONTAL

CONDITIONING

HEADED WELD STUD

INSIDE DIAMETER

INSIDE FACE

INFORMATION

INTERIOR

HCM

HDR

HGR

HORIZ

HVAC

HWS

IF / ISF

INSP | SPECIAL INSPECTOR

INSP | SPECIAL INSPECTOR

INSP SPECIAL INSPECTOR

INSP SPECIAL INSPECTOR

INSP | SPECIAL INSPECTOR

TEST | TESTING LAB

TEST TESTING LAB

SPECIAL INSPECTOR

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

VERTICAL

VERIFY

WITHOUT

WOOD

WITH

VRFY

VERIFY IN FIELD

WIDE FLANGE BEAM

WELDED WIRE FABRIC

WORK POINT

1. ANCHORAGE FOR AND ATTACHMENT OF M/E/P/F SYSTEMS & EQUIPMENT TO STRUCTURE

2. OPEN WEB METAL JOISTS & GIRDERS

STRUCTURAL OBSERVATIONS

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.

1. FOUNDATION

1. FOUNDATION

2. WOOD DIAPHRAGMS

3. TILT PANELS

DESCRIPTION

REINFORCING STEEL

NAILING & STRAPPING OF WOOD DIAPHRAGM

REINFORCING STEEL & EMBED PLACEMENT

chitecture - Interior

**Portland, OR** 503.224.9560 **Vancouver, WA** 360.695.7879

Seattle, WA

206.749.9993

www.mcknze.com

MACKENZIE

DESIGN DRIVEN | CLIENT FOCUSE

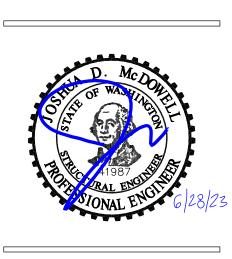
Client

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

Project

240 15TH ST SE PUYALLUP, WA 98372

Mechanical/Electrical



2023 ALL RIGHTS RESERVED
THESE DRAWINGS ARE THE PROPERTY O
MACKENZIE AND ARE NOT TO BE USED
OR REPRODUCED IN ANY MANNER,
WITHOUT PRIOR WRITTEN PERMISSION

REVISION SCHEDULE

Delta Issued As Issue Date

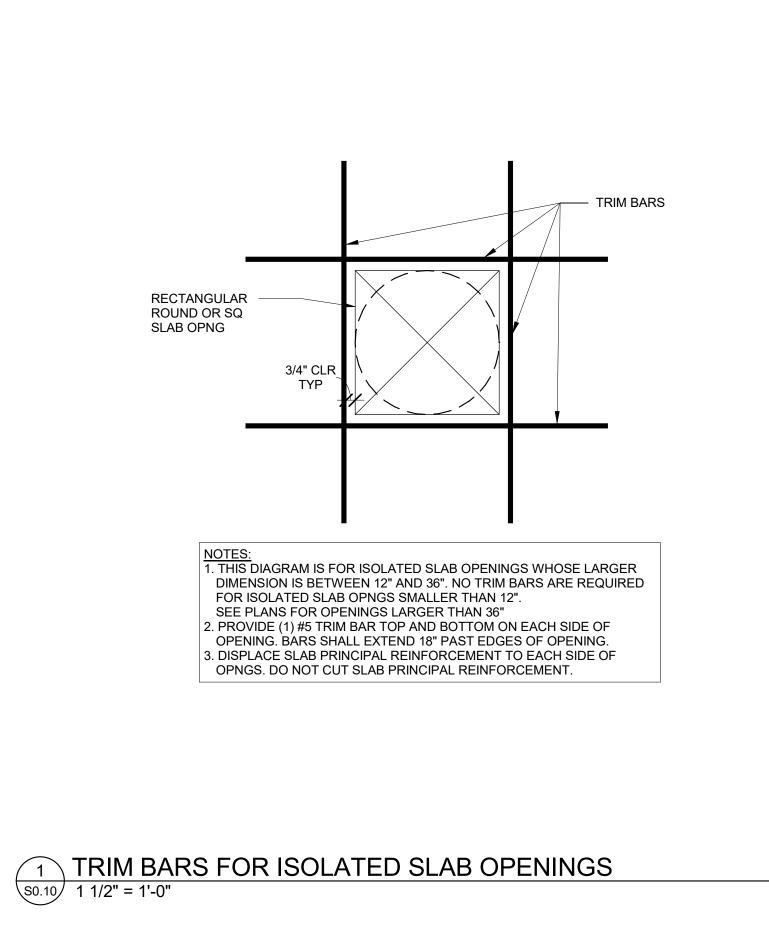
MACKENZIE

SHEET TITLE:
STRUCTURAL
GENERAL

SHEET

**S0.00** 

JOB NO.



SUBPURLIN PER PLAN

8'-0"

/ JOIST PER PLAN

200lb MAX UNIT OR

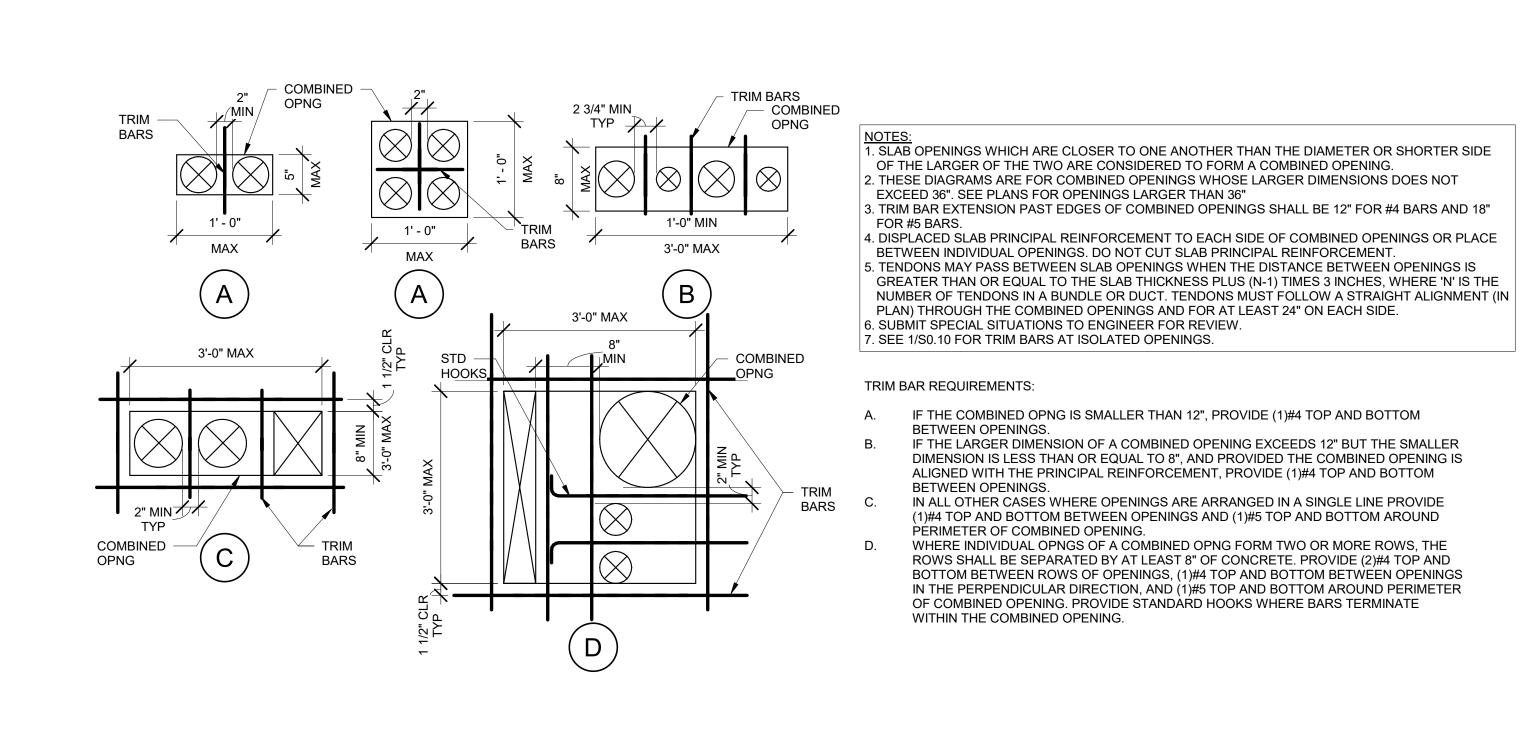
- JOIST PER PLAN

DBL 3x6 SUBPURLIN TYP

AT EDGE OF OPENING W/

SIMPSON DBL F HANGER.

SKYLIGHT





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

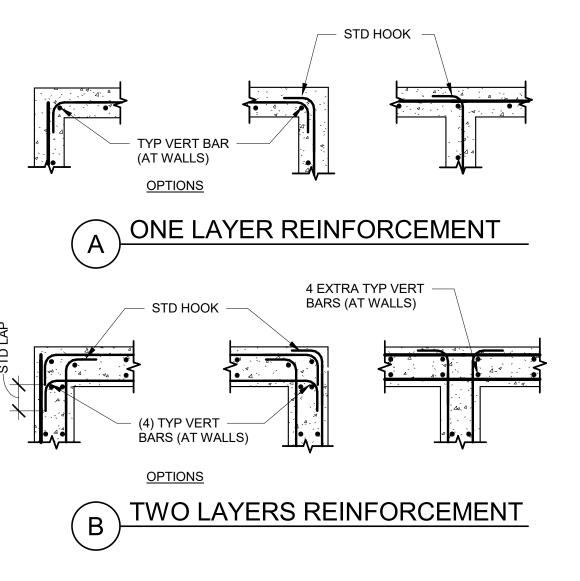
MACKENZIE. DESIGN DRIVEN | CLIENT FOCUSED

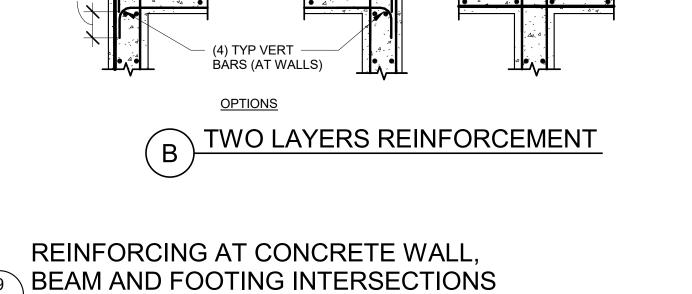
CREF3 PUYALLUP **OWNER LLC** 11611 SAN VICENTE BLVD. **10TH FLOOR** LOS ANGELES, CA 90049

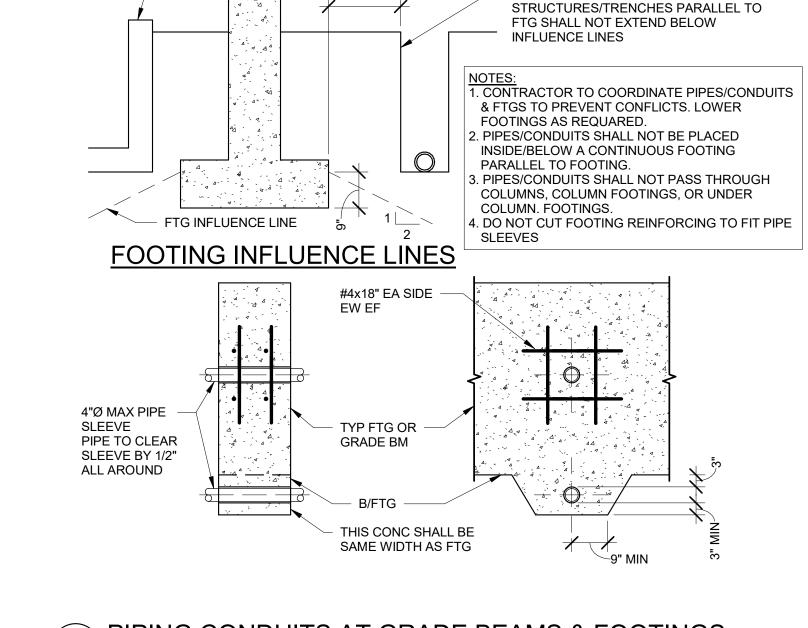
240 15TH ST SE

Mechanical/Electrical

**PUYALLUP, WA 98372** 



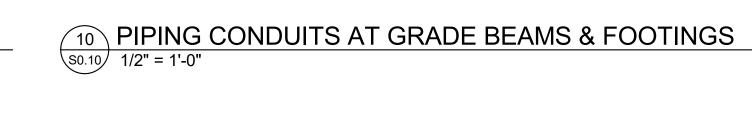




TRENCH, PIT, BASEMENT, POOL, CONC WALL OR SIMILAR

DIGGING FOR SUBGRADE

	REINFORCING AT CONCRETE WALL,
9	BEAM AND FOOTING INTERSECTIONS
\$0.10	1 1/2" = 1'-0"







**CONCRETE LAP SPLICES** 

NOTES:

1. WHEN TWO BAR SIZES ARE SPLICED, USE LAP LENGTH FOR SMALLER BAR.

6. TOP BARS ARE DEFINED AS HORIZONTAL BARS PLACED SUCH THAT MORE THAN 12 INCHES

8. AT CONTRACTOR'S OPTION, USE MECHANICAL COUPLERS PER 13/S0.10 TO REDUCE

3. TABLE DOES NOT APPLY TO SPLICES WITH EPOXY-COATED BARS.

5. YIELD STRENGTH OF THE STEEL BARS IS ASSUMED TO BE 60,000 PSI.

4. FOR LIGHTWEIGHT CONCRETE MULTIPLY VALUES BY 1.3.

OF FRESH CONCRETE IS CAST BELOW THE BARS.

7. SEE DRAWINGS FOR EXCEPTIONAL CASES.

F'c = 4000 PSI

SUBPURLIN -PER PLAN

4x10 W/ SIMPSON B

HGR, TYP (3) PLACES

TRIM BARS FOR MULTIPLE SLAB OPENINGS

1500lb MAX UNIT

\_\_\_\_

10' - 0" MAX

JOIST PER PLAN

UNIT CURB W/ #14x3" SCREW EA CORNER

F'c = 5000 PSI

1/8" RADIUS TOOLED EDGE

1/2"Ø x 1'-0" LONG SMOOTH DOWEL @ 12" OC GREASE ONE

END AT POUR STRIP USE #

SUBGRADE SEE GEOTECH FOR PREP OF SUBGRADE

SAW CUT 1/8"x1/4 SLAB DEPTH

SUBGRADE SEE GEOTECH FOR PREP OF SUBGRADE

SLAB REINF PER PLAN STOP EVERY OTHER BAR AT EA SIDE OF JOINT

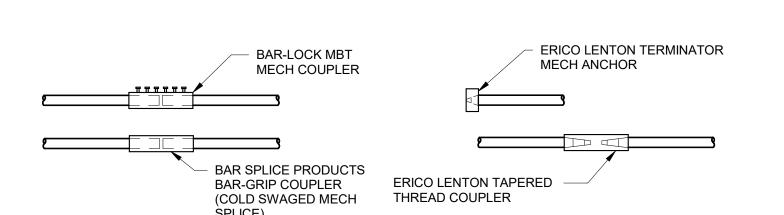
BENEATH SOG

CONC SLAB PER PLAN

REINF PER PLAN

BENEATH SOG

4x3'-0" DO NOT GREASE (SIM



**TYPE B** 

MIN WELD SIZE IN INCHES

3. MATERIALS, QUALIFICATIONS OF WELDING PROCEDURES AND WELDERS ARE TO BE VERIFIED

(E)=0.6S

TYPE A

(E)=0.4S

FLARE V GROOVE WELD

**LENGTH IN INCHES OF "FULL** 

FLARE BEVEL GROOVE WELD

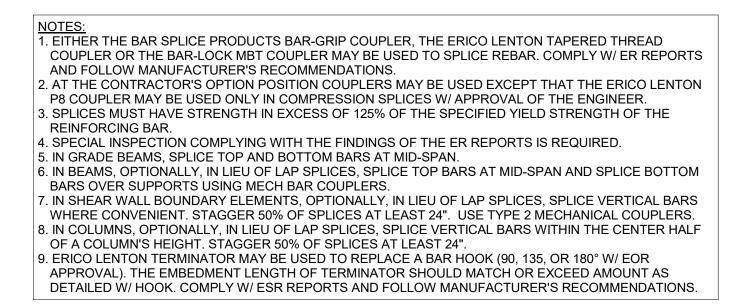
NOTES:

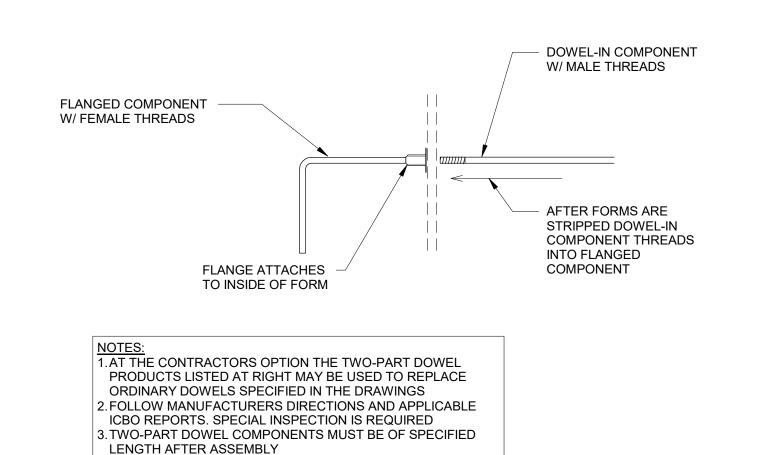
1. SEE AWS FOR ELECTRODES GRADE REQUIREMENTS.

**8 WELDING OF REINFORCED STEEL** 

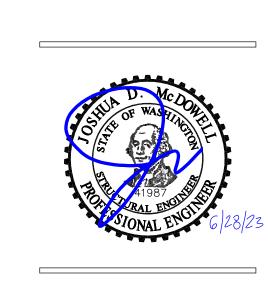
BY THE SPECIAL INSPECTOR PRIOR TO THE START OF WORK.

2. CONTINUOUS INSPECTIONS REQUIRED.





	#	<del>‡</del> 4	#	<del>!</del> 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

2. TABLE IS FOR CLASS B SPLICES.

CONGESTION

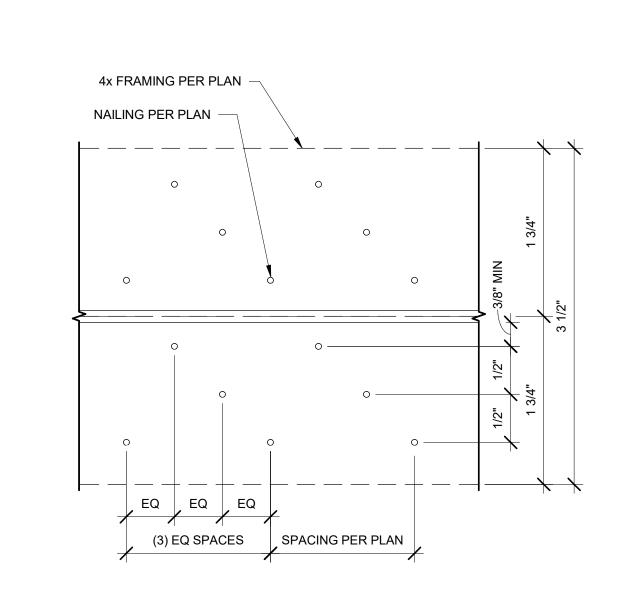
NOTE:
DOWELED JOINT INSTRUCTIONS:
DOWELS ARE TO BE SAWN (OR IF

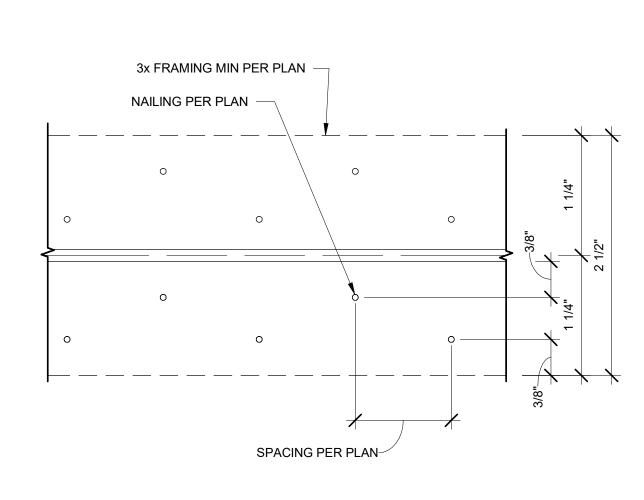
SHEARED GRIND ENDS TO

REMOVE DEFORMITIES)



		TWO PART DOWEL SYSTEM
(s	0.10	1 1/2" = 1'-0"





	3x FRAMING NAILING PER	MIN PER PLAN —			
	 o		0	_ — — —	"4/1
0		0		0	7,2"
	o		<b>\</b>		147 177
o 		o 		o ————————————————————————————————————	3/8"
		SPACING PER	R PLAN	<del></del>	

	MACKENZIE 2023 ALL RIGHTS RESERVED THESE DRAWINGS ARE THE PROPERTY OF MACKENZIE AND ARE NOT TO BE USED OR REPRODUCED IN ANY MANNER, WITHOUT PRIOR WRITTEN PERMISSION  REVISION SCHEDULE						
-	Delta	Issued As	Issue Date				
-							
-							
+							
	TY	T TITLE: PICAL TAILS					

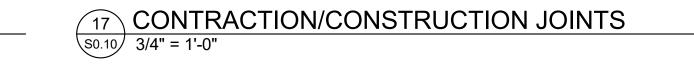
2x RISE 2-0" MAX X RISE 2-0" M
້ວຸ ຕັ້ REINF SAME SIZE & SPACING AS FTG REINFORCEMENT

16 TYPICAL STEP IN WALL FOOTING

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

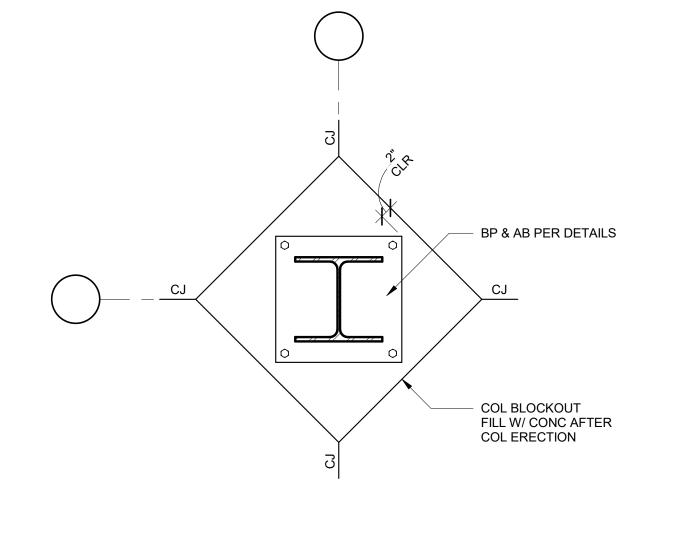
NOTES: 1. SLOPE TO BE 1 VERT (MAX) TO 2 HORIZ UNO

2.LOCATE STEPS AS REQUIRED



CONTRACTION

CONSTRUCTION



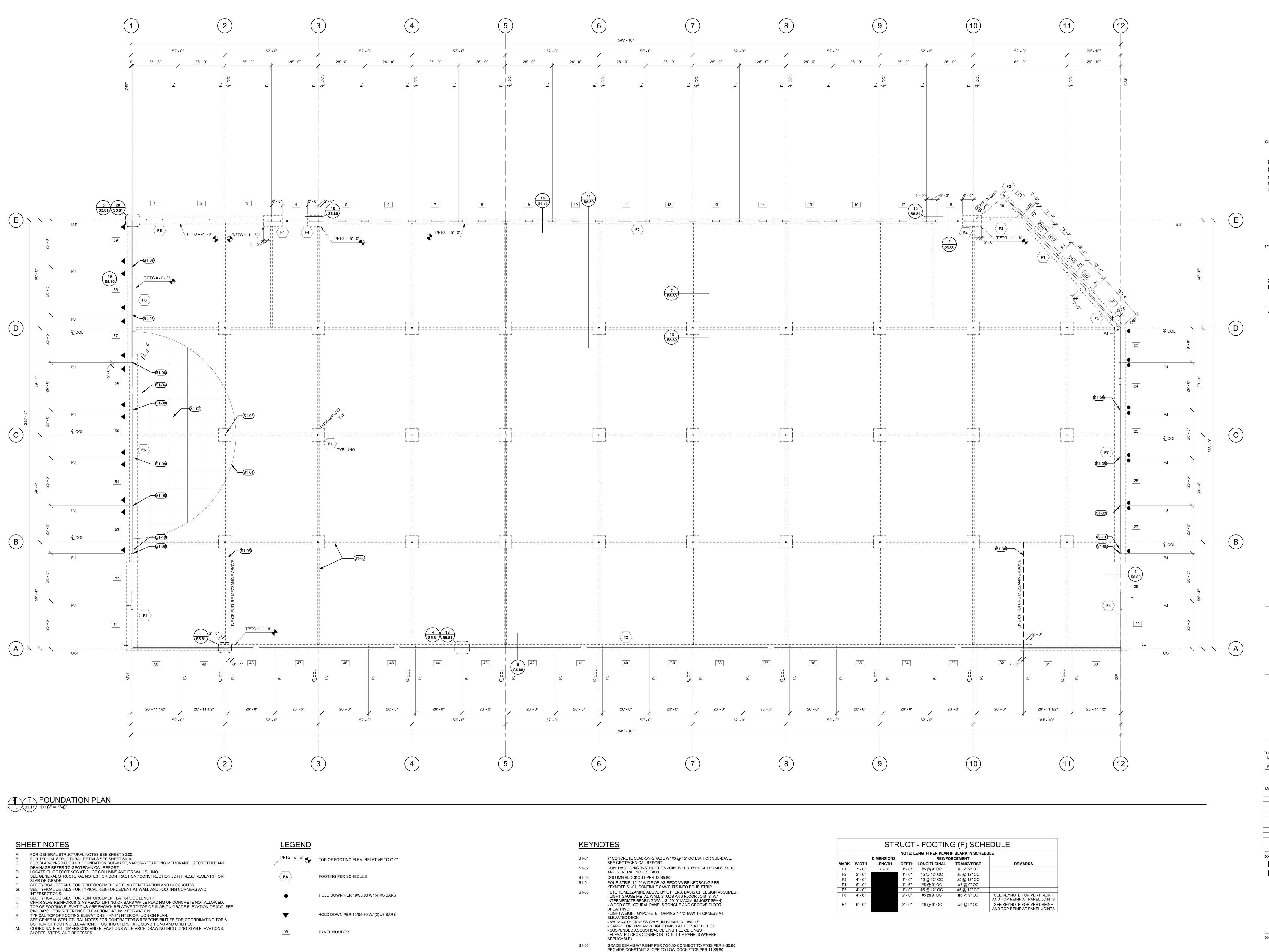
18 DIAMOND BLOCKOUT AT COL	19	HEAVY	STAGGERED
S0.10 3/4" = 1'-0"	\$0.10	12" = 1'-0"	

ED NAILING

20 STAGGERED NAILING

90% CONSTRUCTION DOCUMENT 6/14/23

**S0.10** 



ADDL VERT REINF IN FTG PER 15/S5.80 AT PANEL JOINT. EXTEND 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

Architecture - Interio

**Portland, C** 503.224.956 **Vancouver, W** 360.695.787 **Seattle, W** 

MACKENZII

DESIGN DRIVEN I CLIENT FOCU

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

Project

240 15TH ST SE PUYALLUP. WA 98372

Mechanical/Electrical

D. McDong Still OF WARTING THE COLUMN AND THE STORAL ENGINEER COLUMN ALL ENGINEER COLUMN AND THE STORAL ENGINEER COLUMN AND

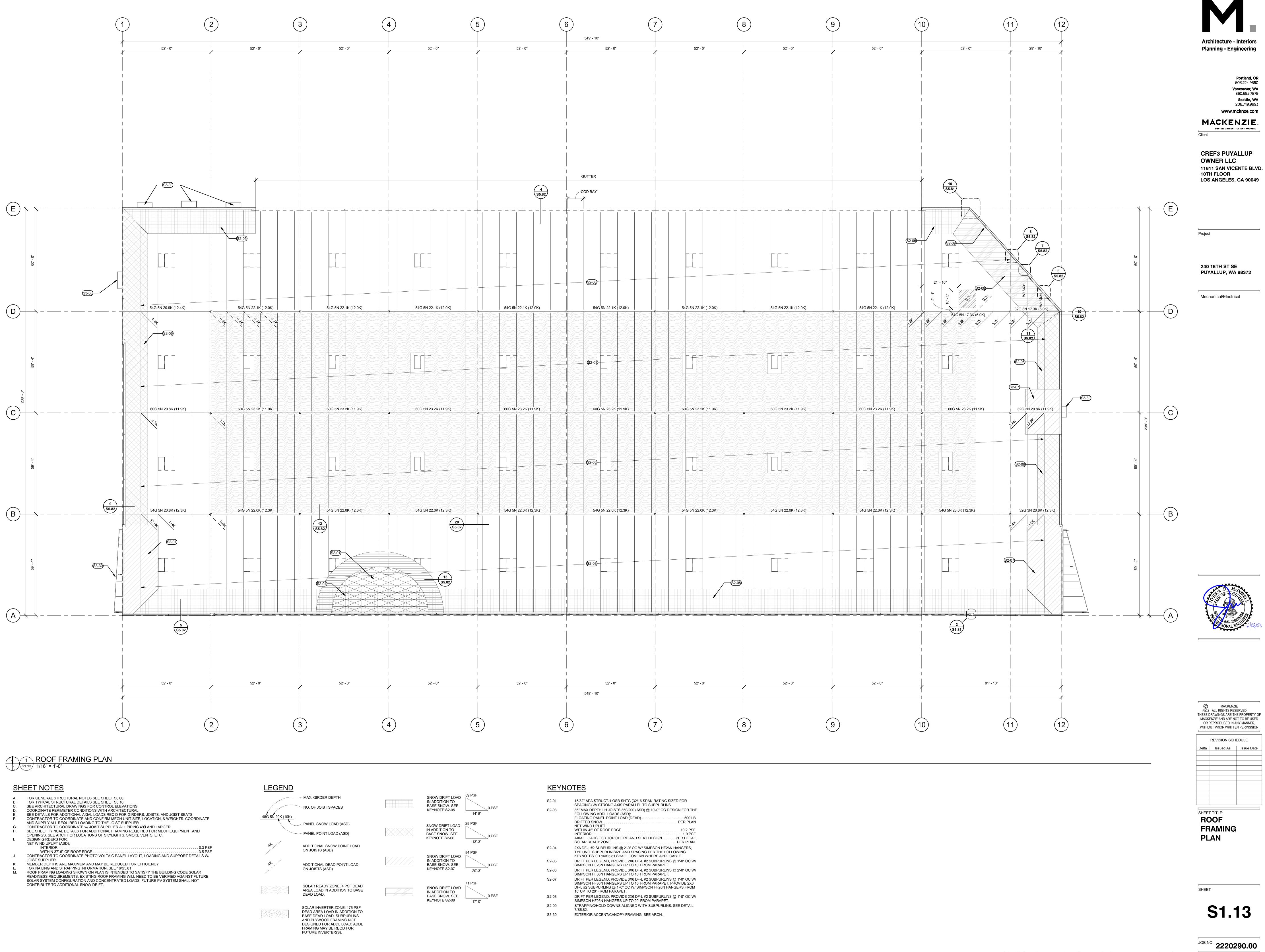
MACKENZIE
2023 ALL RIGHTS RESERVED
THESE DRAWINGS ARE THE PROPERTY OF
MACKENZIE AND ARE NOT TO BE USED
OR REPRODUCED IN ANY MANNER,
WITHOUT PRIOR WRITTEN PERMISSION

REVISION SCHEDULE

Delta Issued As Issue Date

SHEET TITLE:
FOUNDATION
PLAN

JOB NO. **2220290.00** 



**Vancouver, WA** 360.695.7879 **Seattle, WA** 206.749.9993

www.mcknze.com

MACKENZIE.

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

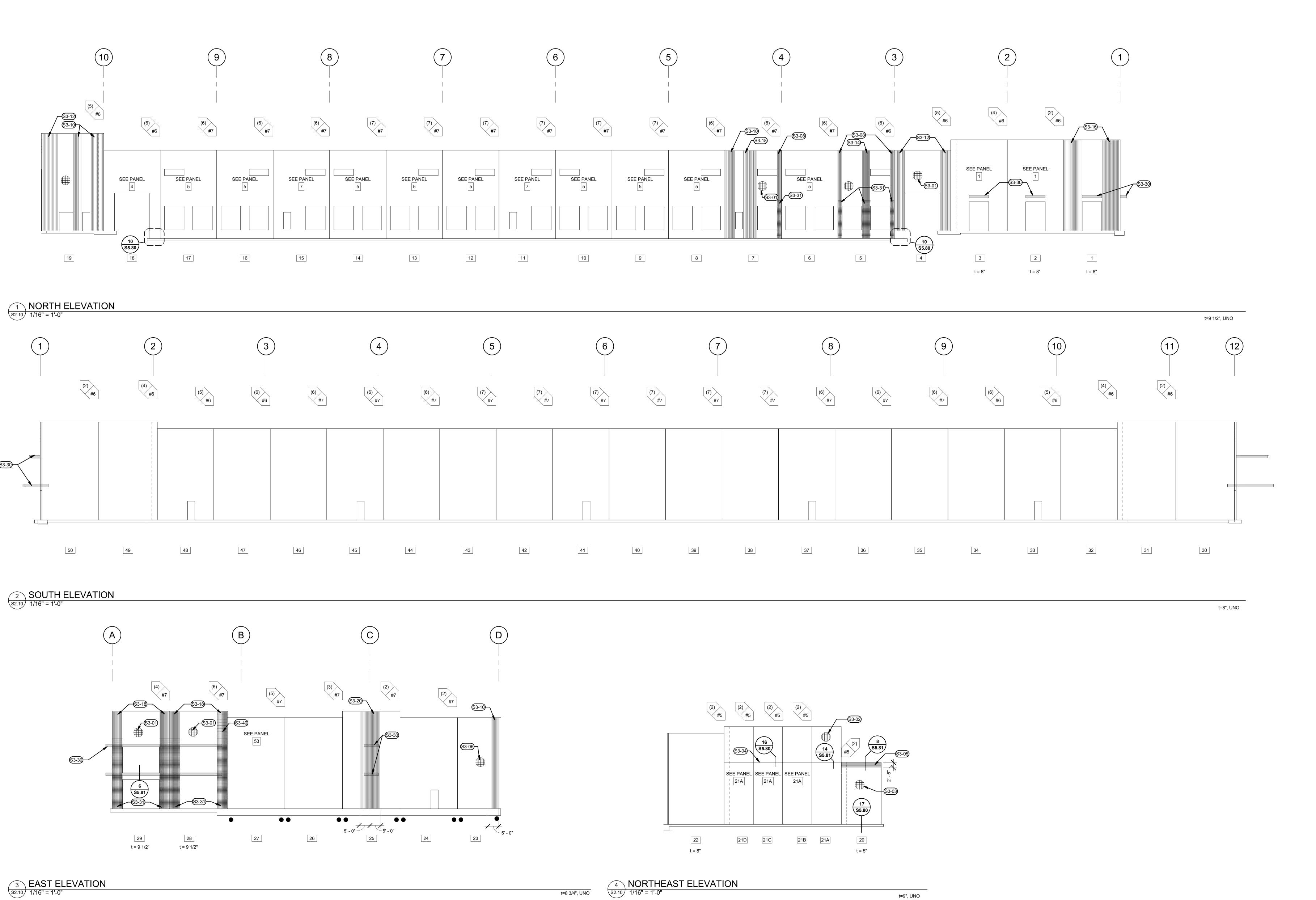
240 15TH ST SE PUYALLUP, WA 98372

Mechanical/Electrical

MACKENZIE 2023 ALL RIGHTS RESERVED THESE DRAWINGS ARE THE PROPERTY OF MACKENZIE AND ARE NOT TO BE USED OR REPRODUCED IN ANY MANNER, WITHOUT PRIOR WRITTEN PERMISSION REVISION SCHEDULE

Delta Issued As Issue Date

SHEET TITLE: **FRAMING** 



(2) #5

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

§3-30—

(2) (2) (2) #5

5' - 0"

t = 10"

t=8 3/4", UNO

t = 10"

TYPICAL SHEET NOTES

**ELEVATIONS** 

<u>LEGEND</u>

A. FOR GENERAL STRUCTURAL NOTES SEE S0.00 SERIES B. FOR TYPICAL STRUCTURAL DETAILS SEE S0.10 SERIES

PANEL NUMBER

SIZE OF REINF.

WHERE APPLICABLE

PANEL THICKNESS

# CHORD BARS, REF. 15/S5.81 AND 2/S5.81

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

HOLD DOWN PER 19/S5.80 W/ (2) #6 BARS

C. SEE ARCHITECTURAL DRAWINGS FOR CONTROL

Architecture - Interiors Planning - Engineering

> **Portland, OR** 503.224.9560 Vancouver, WA 360.695.7879 **Seattle, WA** 206.749.9993 www.mcknze.com

MACKENZIE.

DESIGN DRIVEN | CLIENT FOCUSED

**CREF3 PUYALLUP** 

11611 SAN VICENTE BLVD.

LOS ANGELES, CA 90049

**OWNER LLC** 

10TH FLOOR

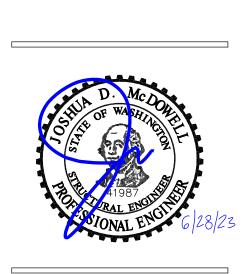
**KEYNOTES** 

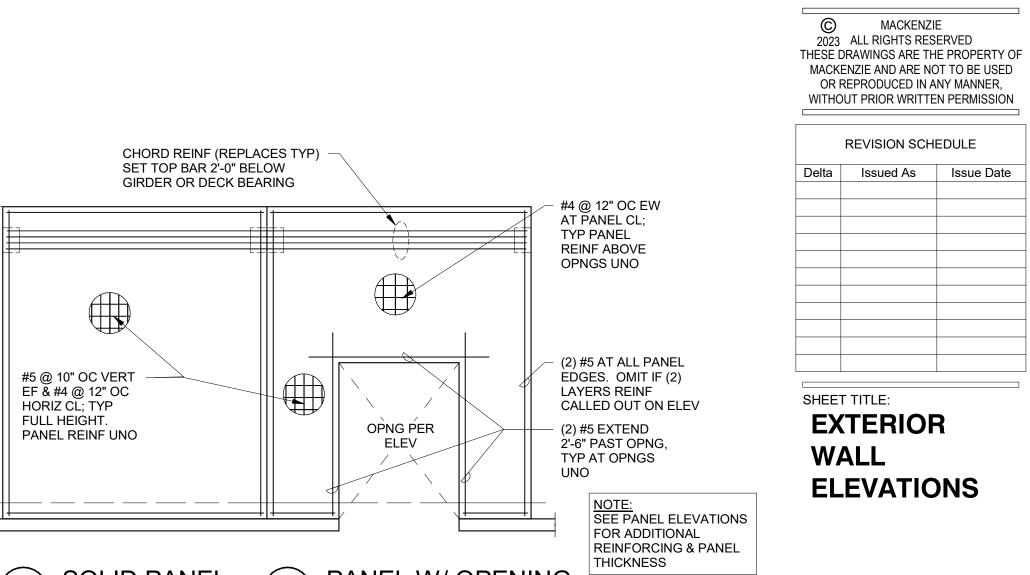
#4 @ 9"OC CL EW #5 VERT BARS @ 6" OC EF & #4 HORIZ BARS @ 12" OC CL. PROVIDE #4 HORIZ BARS @ 12" OC EF AT THICKENED PORTION OF PANEL BLADE WALL FEATURE. #5 VERT BARS @ 9" OC CL & #4 HORIZ BARS @ 12" OC CL STEP IN PANEL TO MATCH THICKNESS OF BLADE

#4 HORIZ REINF @ 6" OC EF ((5) TOTAL MIN EF) #5 VERT @ 10" OC EF & #4 HORIZ @ 12" OC EF (8) #5 VERT BARS EF, EQ SPACED IN LEG (10) #5 VERT BARS EF, EQ SPACED IN LEG (12) #5 VERT BARS EF, EQ SPACED IN LEG (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. 240 15TH ST SE #3 HOOPS @ 6" OC SEE 9/S5.81 FOR EXTENT PUYALLUP, WA 98372 #3 HOOPS AT THICKENED PANEL LEG PER 1/S5.81

Mechanical/Electrical

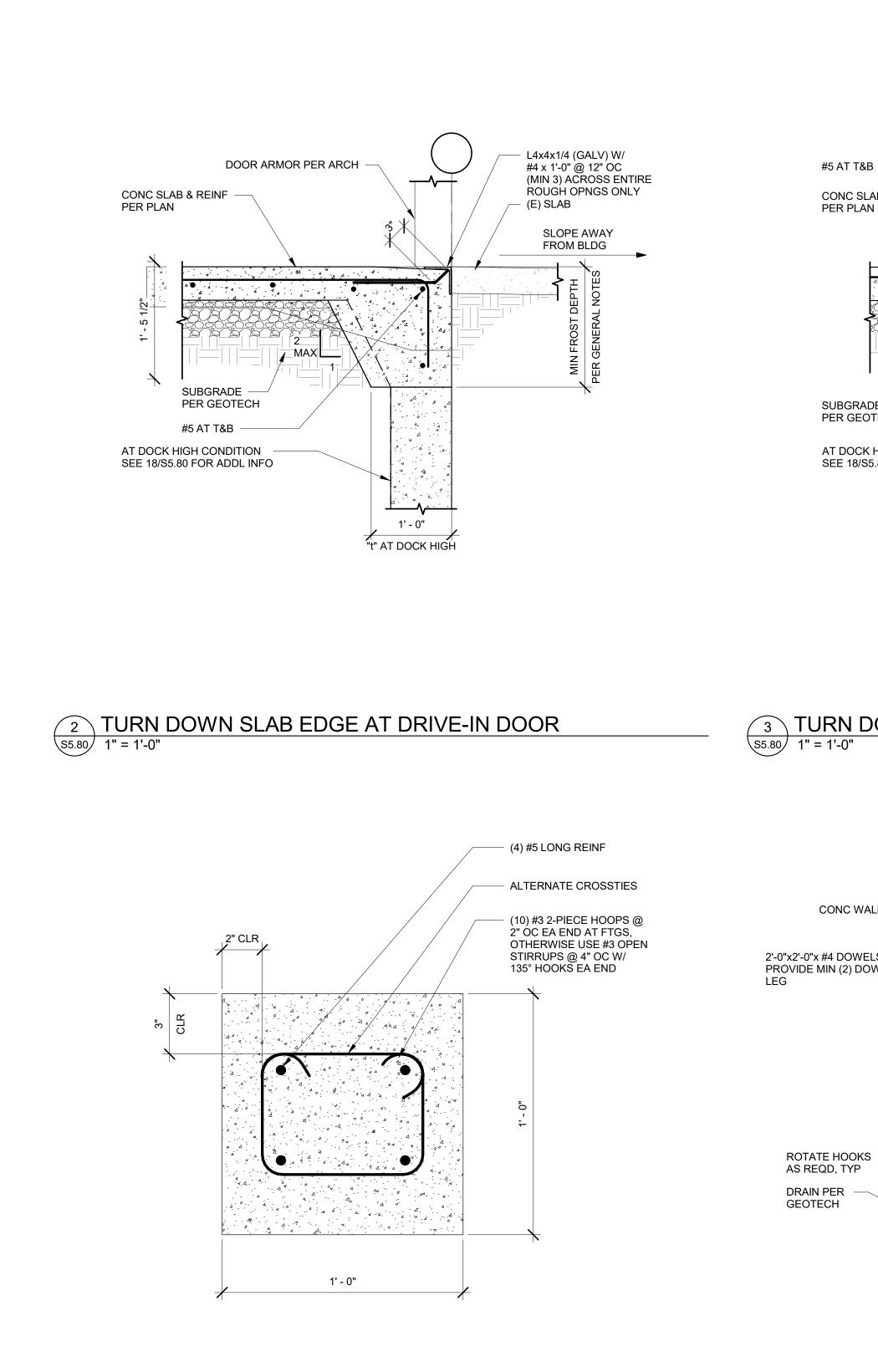






A SOLID PANEL B PANEL W/ OPENING

**S2.10** 



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

17 BLADE WALL FOOTING

- HSS COL PER PLAN

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

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

- FTG AND REINF

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

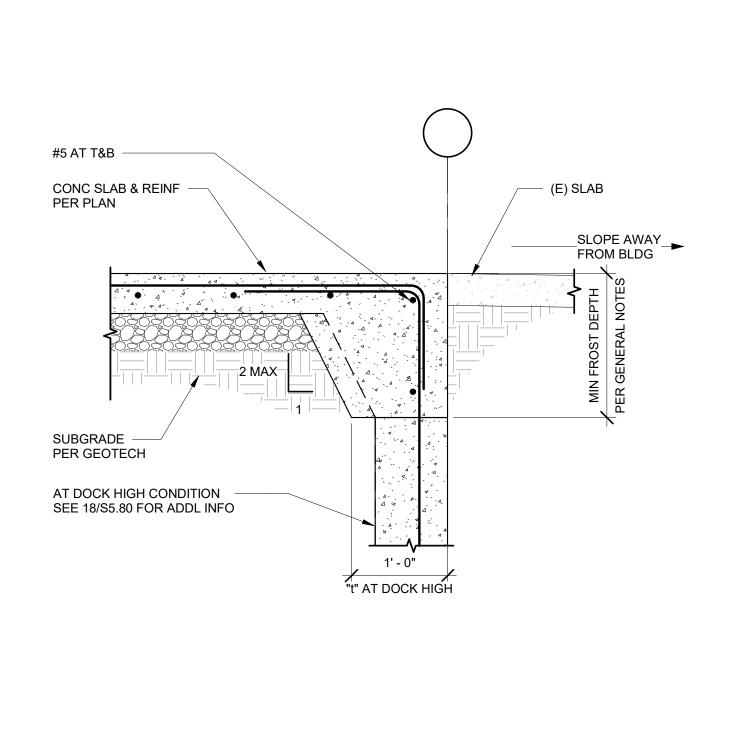
PANEL STEP PER ELEV

FINISH FLOOR

GRADE BEAM AT DOCK PANEL FOOTING

16 BLADE WALL STEP AT SOLID PANEL
S5.80 1" = 1'-0"

CONC PANEL PER ELEV



COLUMN BASE PLATE

HSS10x10 PL1x16x1'-4"

HSS COL ON STL BP PER PLAN

CONC SLAB PER PLAN

FTG & REINF PER PLAN

- GRADE BM T&B REINF TO CONTINUE THRU COL FTG

DOOR ARMOR PER ARCH

SLAB REINF PER PLAN

SUBGRADE PER

GEOTECH

FTG PER PLAN

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

PANEL PER ELEV

SHIM SPACE W/

NON SHRINK GROUT

BACKFILL CONC AT BLOCKOUT

BASE PER GEOTECH

— GRADE BM

STEEL BP PER TABLE W/ (4) 3/4"Ø EXPANSION ANCHORS - EMBED 6" MIN. ENSURE POST-INSTALLED ANCHORS DO NOT CUT REBAR

5/16

LAP SPLICE

(13) COLUMN TO FOOTING

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

PANEL TO FTG —— CONN PER 8/S5.80

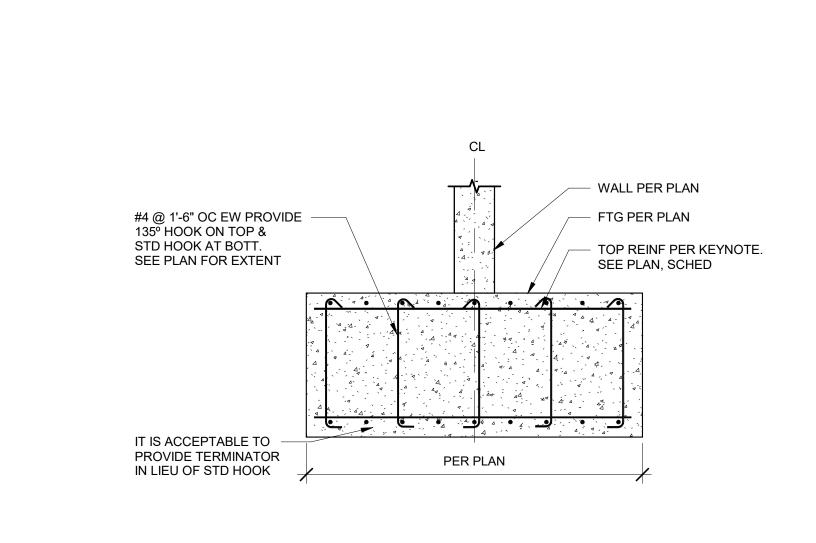
18 DOCK HIGH DOOR S5.80 1" = 1'-0"

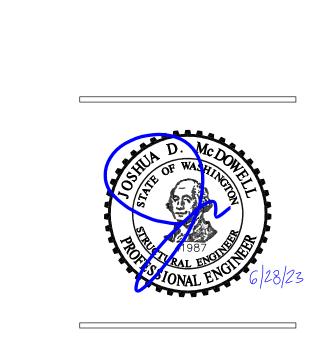
DRAIN PER GEOTECH

(ALT. - USE 3/4"Ø J-BOLT W/ 8" MIN EMBED)



SINGLE SIDED HOLDDOWN CONNECTION AT FOOTING (SFRS)





Planning - Engineering

**Portland, OR** 503.224.9560

Vancouver, WA 360.695.7879

**Seattle, WA** 206.749.9993

www.mcknze.com

DESIGN DRIVEN | CLIENT FOCUSED

MACKENZIE.

**CREF3 PUYALLUP** 

11611 SAN VICENTE BLVD.

LOS ANGELES, CA 90049

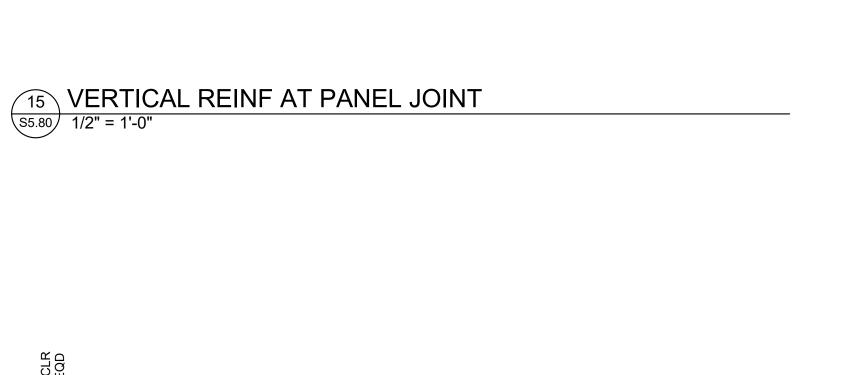
**OWNER LLC** 

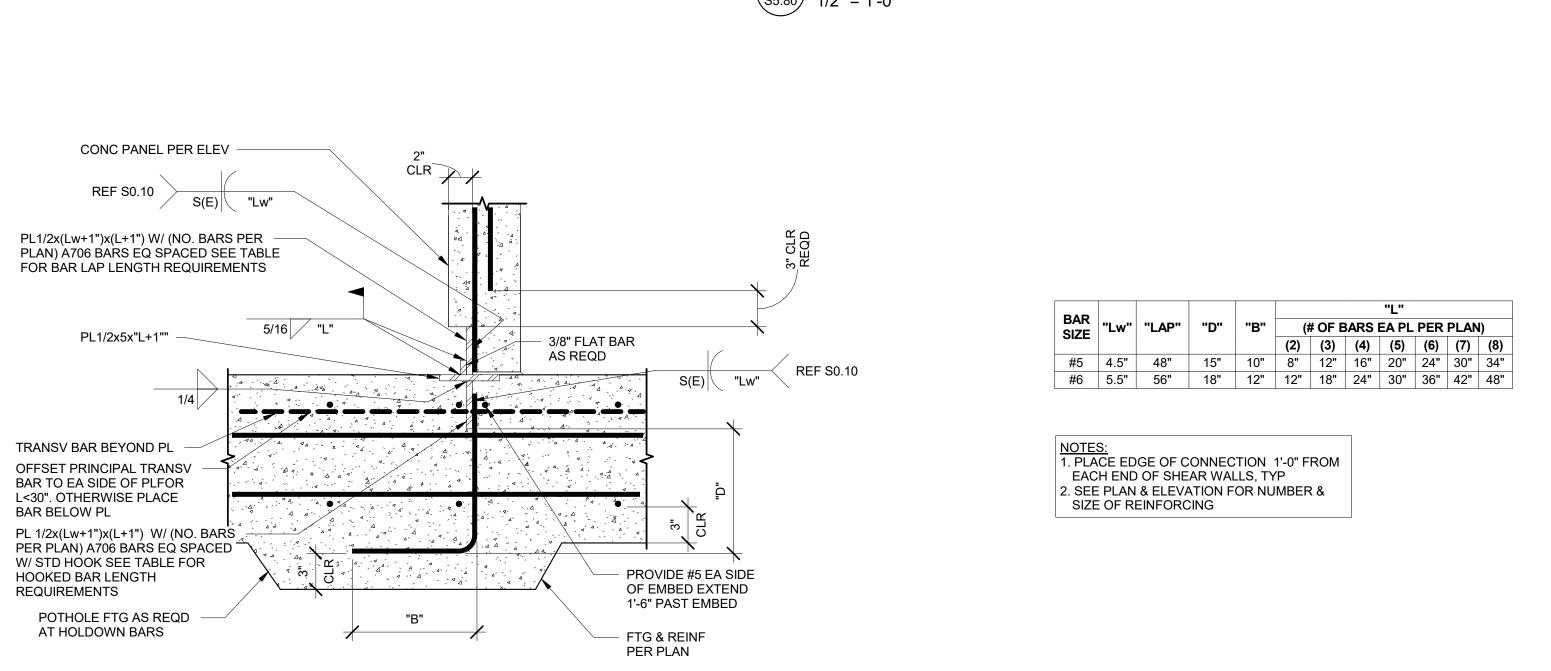
240 15TH ST SE

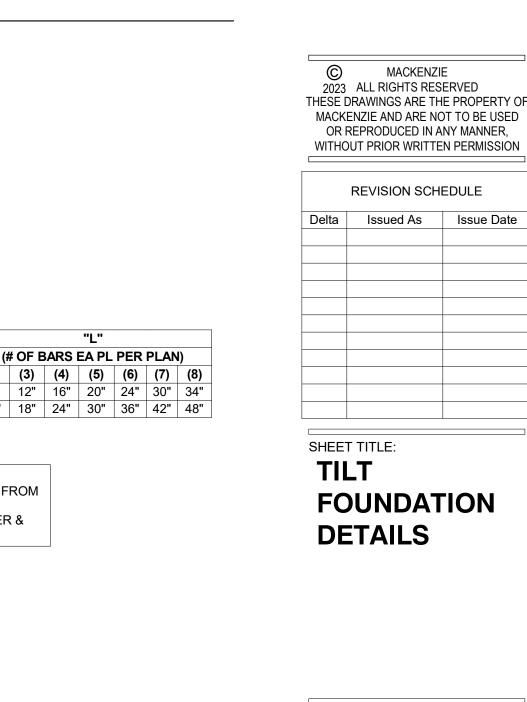
Mechanical/Electrical

**PUYALLUP, WA 98372** 

**10TH FLOOR** 

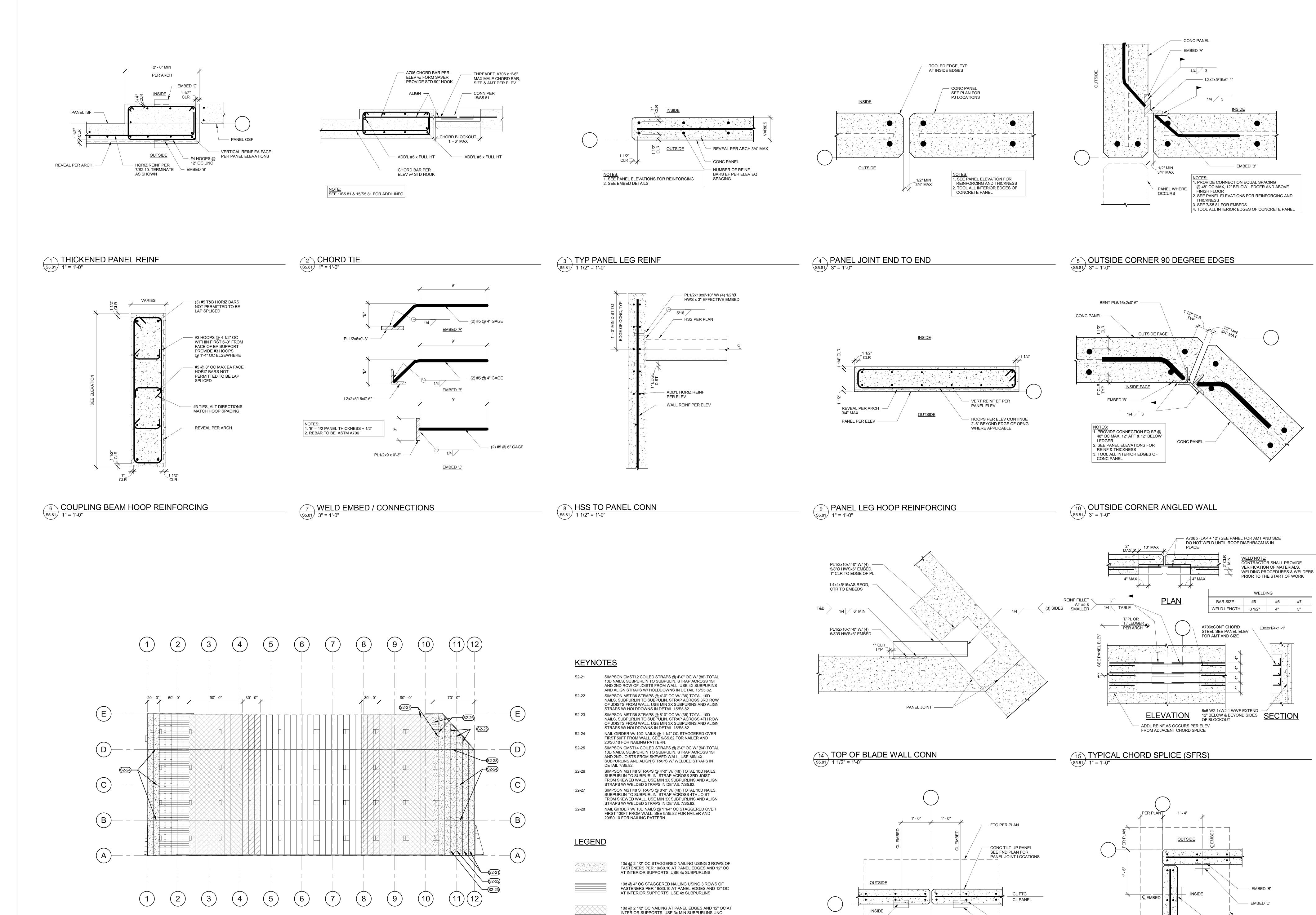






JOB NO. **2220290.00** 

**S5.80** 



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"

\_\_\_\_\_S5.81

- FTG PER PLAN

CONC TILT-UP PANEL SEE PANEL ELEV FOR THICKNESS AND REINF

NOTE: SEE 7/S5.81 FOR EMBEDS

20 OUTSIDE CORNER \$5.81 1" = 1'-0"

EMBED 'B'

NOTE: SEE 7/S5.81 FOR EMBEDS

19 PANEL END TO END | S5.81 | 1" = 1'-0"

JOB NO. **2220290.00** 

MACKENZIE

MACKENZIE AND ARE NOT TO BE USED

OR REPRODUCED IN ANY MANNER,

WITHOUT PRIOR WRITTEN PERMISSION

REVISION SCHEDULE

SHEET TITLE:

SHEET

**TILT DETAILS** 

2023 ALL RIGHTS RESERVED
THESE DRAWINGS ARE THE PROPERTY OF

Architecture - Interiors
Planning - Engineering

**Portland, OR** 503.224.9560

**Vancouver, WA** 360.695.7879

**Seattle, WA** 206.749.9993

www.mcknze.com

MACKENZIE.

**CREF3 PUYALLUP** 

11611 SAN VICENTE BLVD.

LOS ANGELES, CA 90049

**OWNER LLC** 

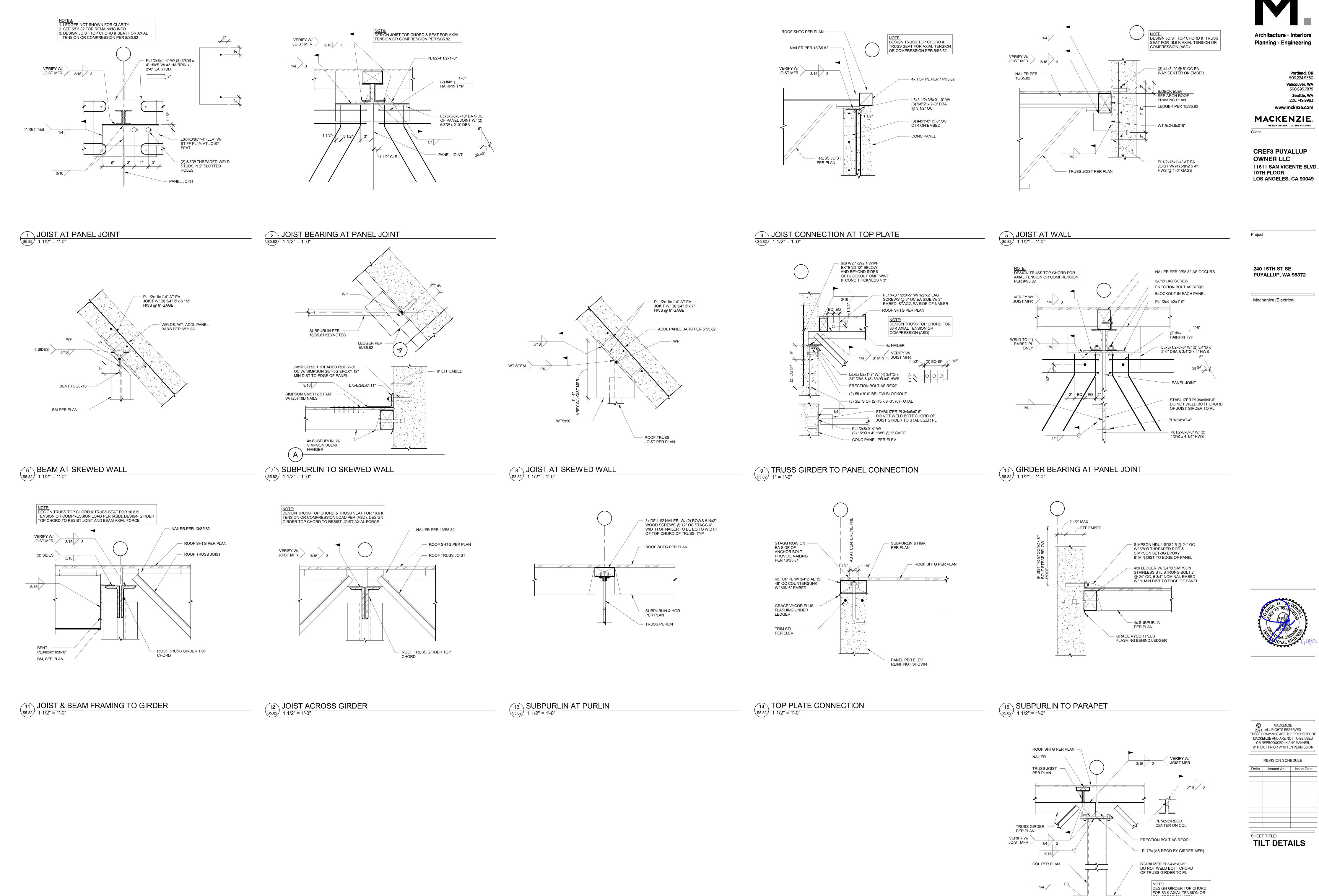
240 15TH ST SE

Mechanical/Electrical

**PUYALLUP, WA 98372** 

**10TH FLOOR** 

DESIGN DRIVEN | CLIENT FOCUSED



Planning - Engineering

**S5.82** 

JOB NO. **2220290.00** 

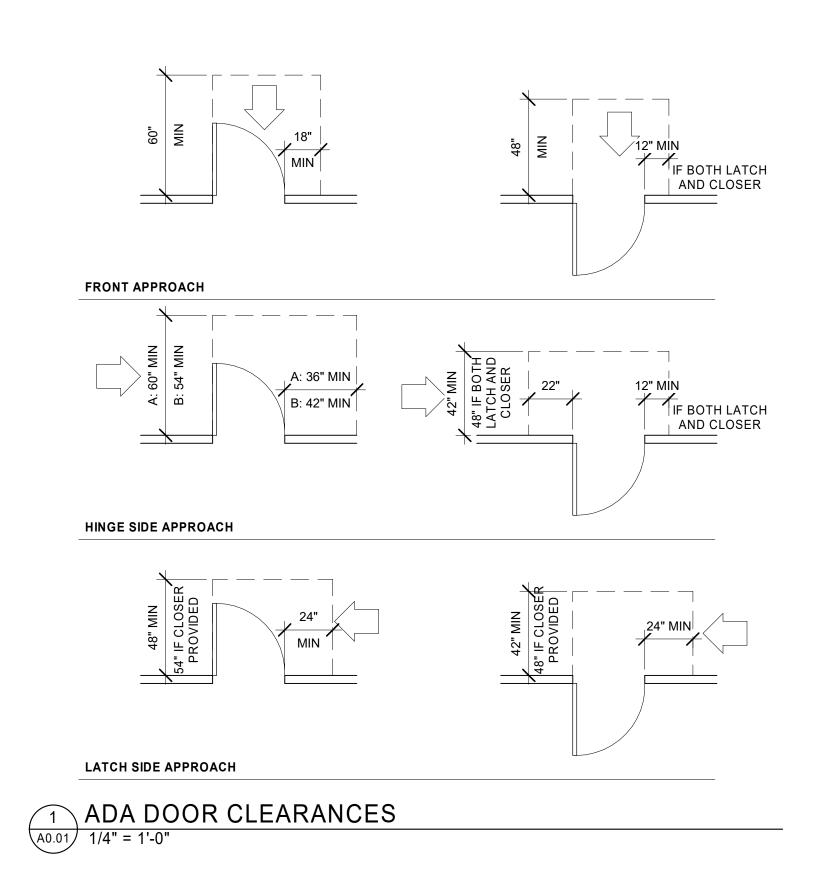
SHEET

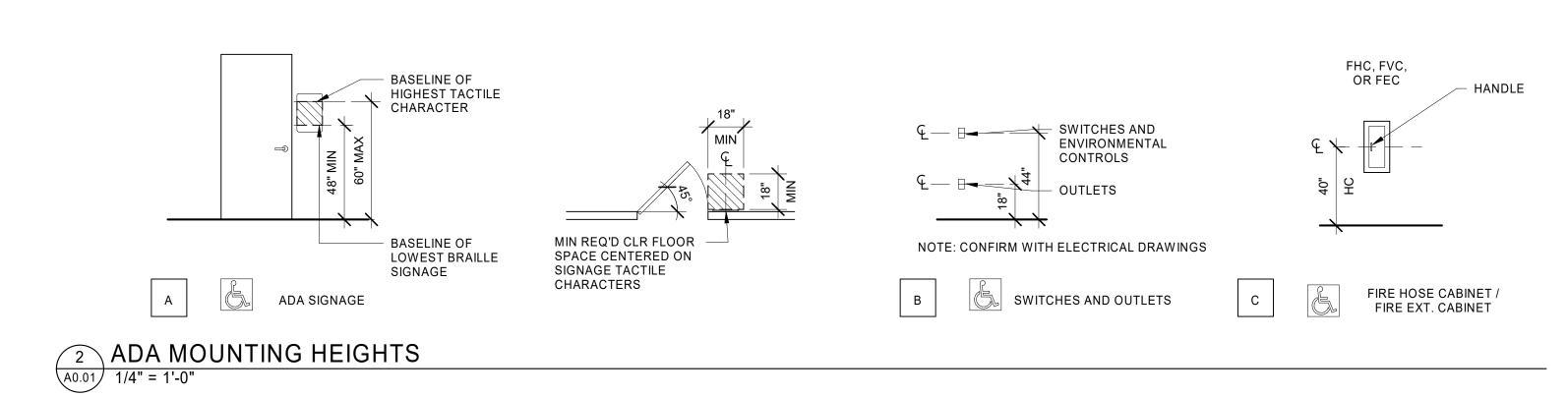
COMPRESSION (ASD)

90% CONSTRUCTION DOCUMENT 6/14/23

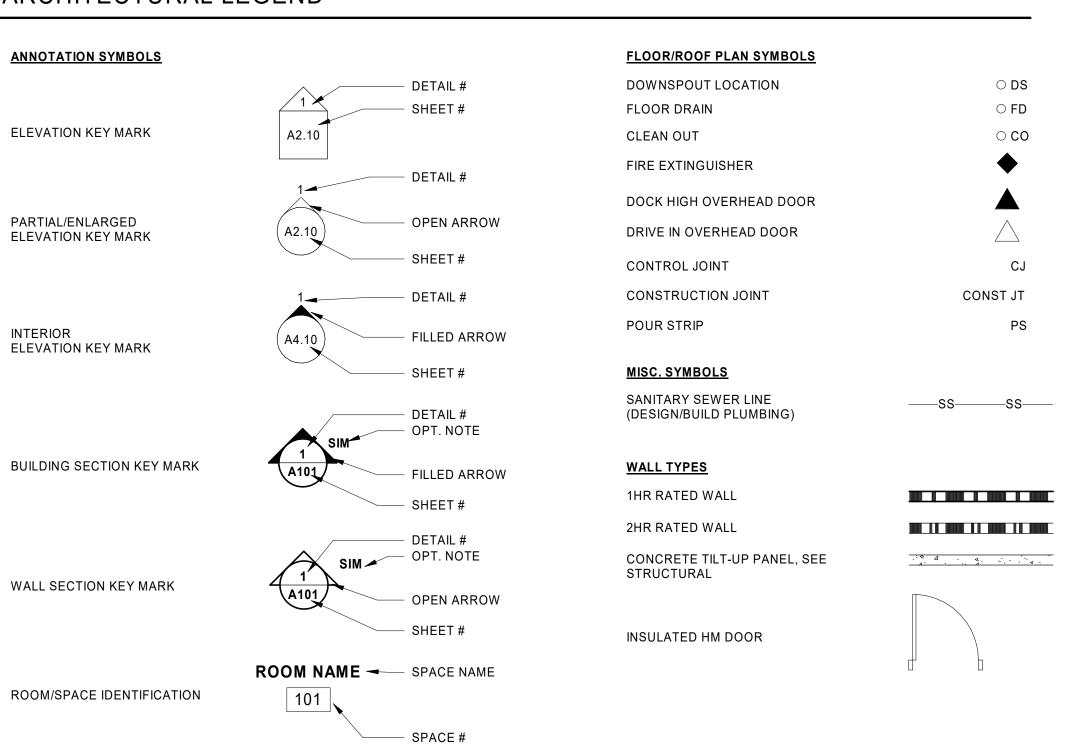
TRUSS GIRDER AT COLUMN

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





### ARCHITECTURAL LEGEND



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.

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.

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

PROVIDE BLOCKING AS REQUIRED ADJACENT TO FIRE EXTINGUISHERS FOR OWNER INSTALLED AED STATIONS
 COORDINATE ALL EXTERIOR WALL PENETRATIONS AMONG AFFECTED DISCIPLINES.
 WATERPROOFING SYSTEMS AND THEIR INSTALLATIONS SHALL BE SUITABLE FOR THEIR INTENDED PURPOSES.
 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.

ALL DIMENSIONS TO FACE OF FINISH, CENTERLINE OF COLUMN UNLESS OTHERWISE NOTED.
ALIGN FINISHES WHERE INDICATED.
WALL THICKNESSES ARE ACTUAL UNLESS OTHERWISE NOTED.
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.
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 JAMB.
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.

PAINT ALL EXPOSED STEEL.
ALL EXPOSED EXTERIOR STEEL TO BE GALVANIZED.

Architecture - Interiors
Planning - Engineering

Portland, OR 503.224.9560
Vancouver, WA 360.695.7879

Seattle, WA
206.749.9993
www.mcknze.com
MACKENZIE

DESIGN DRIVEN | CLIENT FOCUSED

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



THESE DRAWINGS ARE THE PROPERTY OF MACKENZIE AND ARE NOT TO BE USED OR REPRODUCED IN ANY MANNER, WITHOUT PRIOR WRITTEN PERMISSION

REVISION SCHEDULE

© MACKENZIE 2023 ALL RIGHTS RESERVED

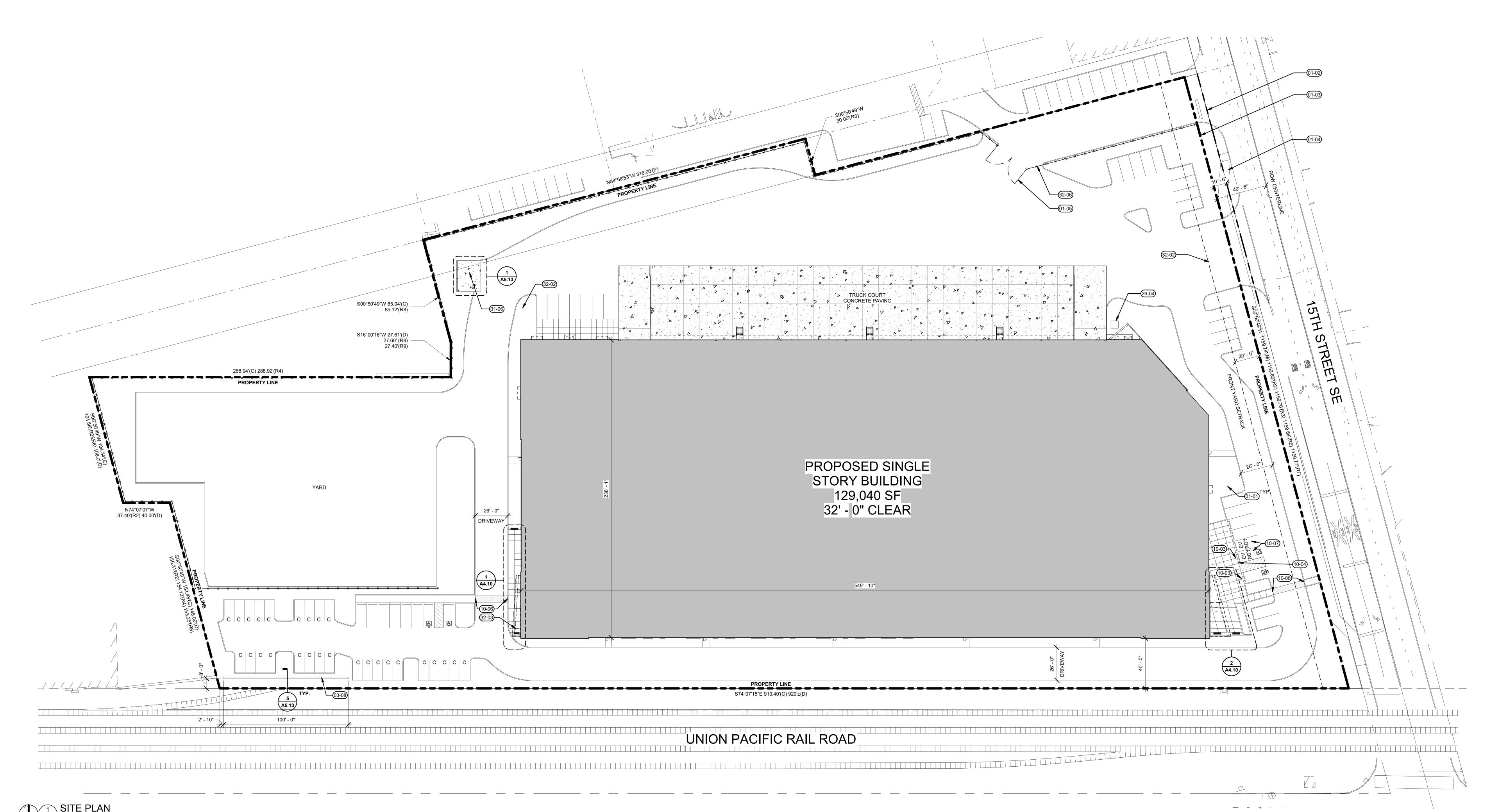
REVISION SCHEDULE
ta Issued As Issue Date

ARCHITECTURAL
GENERAL
NOTES AND
SYMBOLS

SHEET

A0.01

PERMIT SET 6/28/2023 2220290.00



### **KEYNOTES**

REFER TO LANDSCAPE PLANS IN SITE PERMIT DOCUMENTS FOR LANDSCAPE BUFFERS IN THIS AREA. EXISTING PROPERTY LINE 01-03 PROPOSED NEW PROPERTY LINE NEW SIDEWALK - REFER TO CIVIL DRAWINGS. EMERGENCY ACCESS GATE: GATE TO BE SECURED WITH CITY APPROVED EMERGENCY VEHICLE ACCESS CONTROL (EVAC) ENTRY SYSTEM WITH MOTORIZED GATE DOORS. TRASH ENCLOSURE. 03-08 CONCRETE SCREEN WALL. 10-03 ADA PARKING SIGN. NO PARKING SIGN. 10-06 DETECTABLE WARNINGS. 10-07 EV READY STALL. 26-04 TRANSFORMER LANDSCAPE ISLAND. 32-02 32-03 (2) BIKE RACKS - SEE DETAILS 8 & 9/A5.13. 32-06 7FT TALL BLACK VINYL-COATED STEEL CHAIN LINK FENCE.

**Portland, OR** 503.224.9560 **Vancouver, WA** 360.695.7879 **Seattle, WA** 206.749.9993 www.mcknze.com

MACKENZIE DESIGN DRIVEN | CLIENT FOCUSED

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

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

Mechanical/Electrical

THESE DRAWINGS ARE THE PROPERTY OF MACKENZIE AND ARE NOT TO BE USED OR REPRODUCED IN ANY MANNER, WITHOUT PRIOR WRITTEN PERMISSION REVISION SCHEDULE

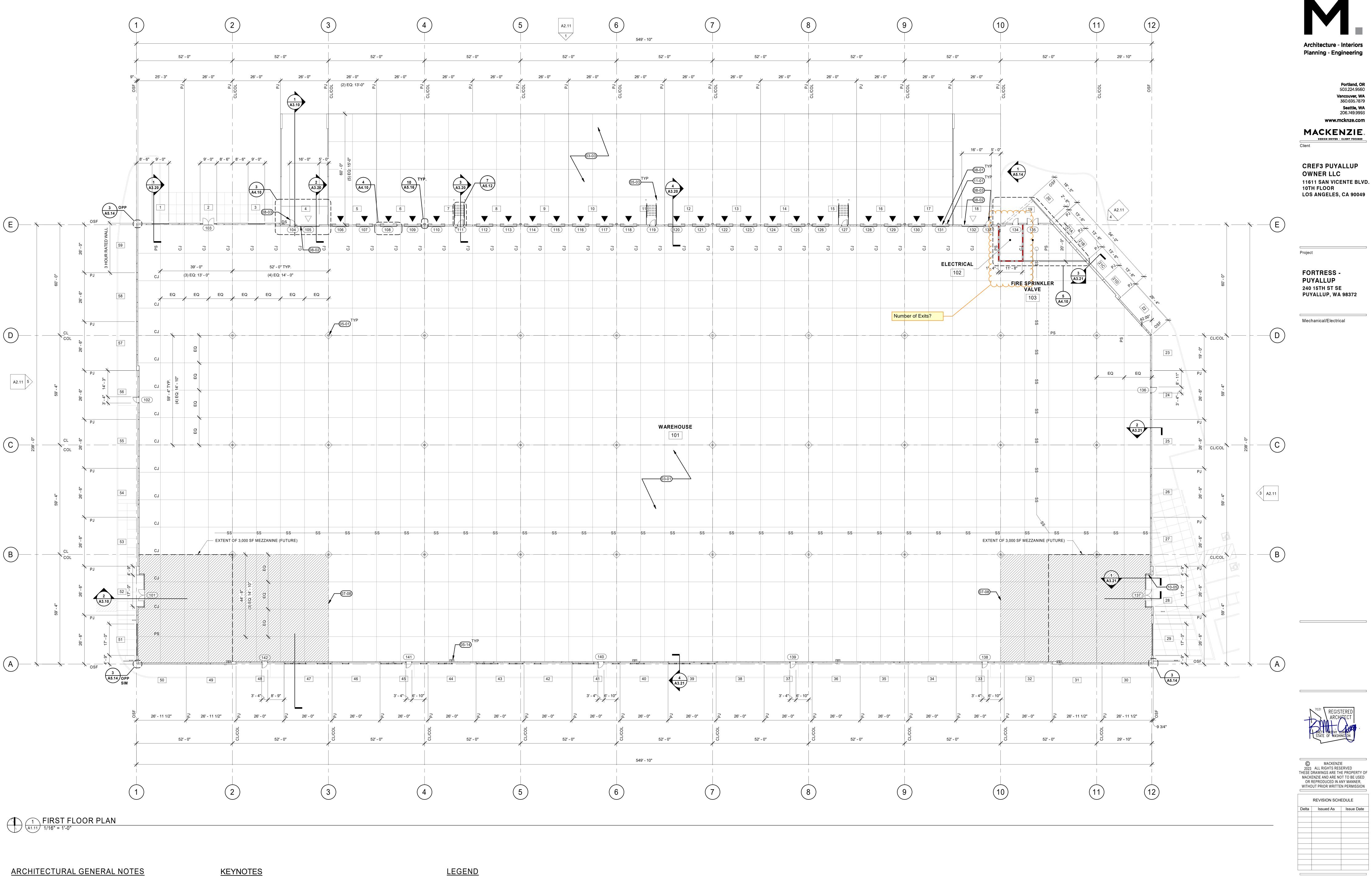
© MACKENZIE 2023 ALL RIGHTS RESERVED

SHEET TITLE: SITE PLAN

SHEET

JOB NO. **2220290.00** 

**PERMIT SET 6/28/2023** Autodesk Docs://Fortress-Puyallup/290-Fortress-Puyallup-V23-A.rvt 6/28/2023 8:12:20 AM 1" = 30'-0"



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** 

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. PROVIDE AND INSTALL KNOXBOX - VERIFY WITH FIRE DEPARTMENT.

10-05 11-01 DOCK DOOR BUMPER.

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

SHEET

SHEET TITLE:

FIRST FLOOR

**Portland, OR** 503.224.9560

**Vancouver, WA** 360.695.7879

**Seattle, WA** 206.749.9993

**Portland, OR** 503.224.9560

**Vancouver, WA** 360.695.7879

**Seattle, WA** 206.749.9993

www.mcknze.com

MACKENZIE.

DESIGN DRIVEN | CLIENT FOCUSED

**CREF3 PUYALLUP** 

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

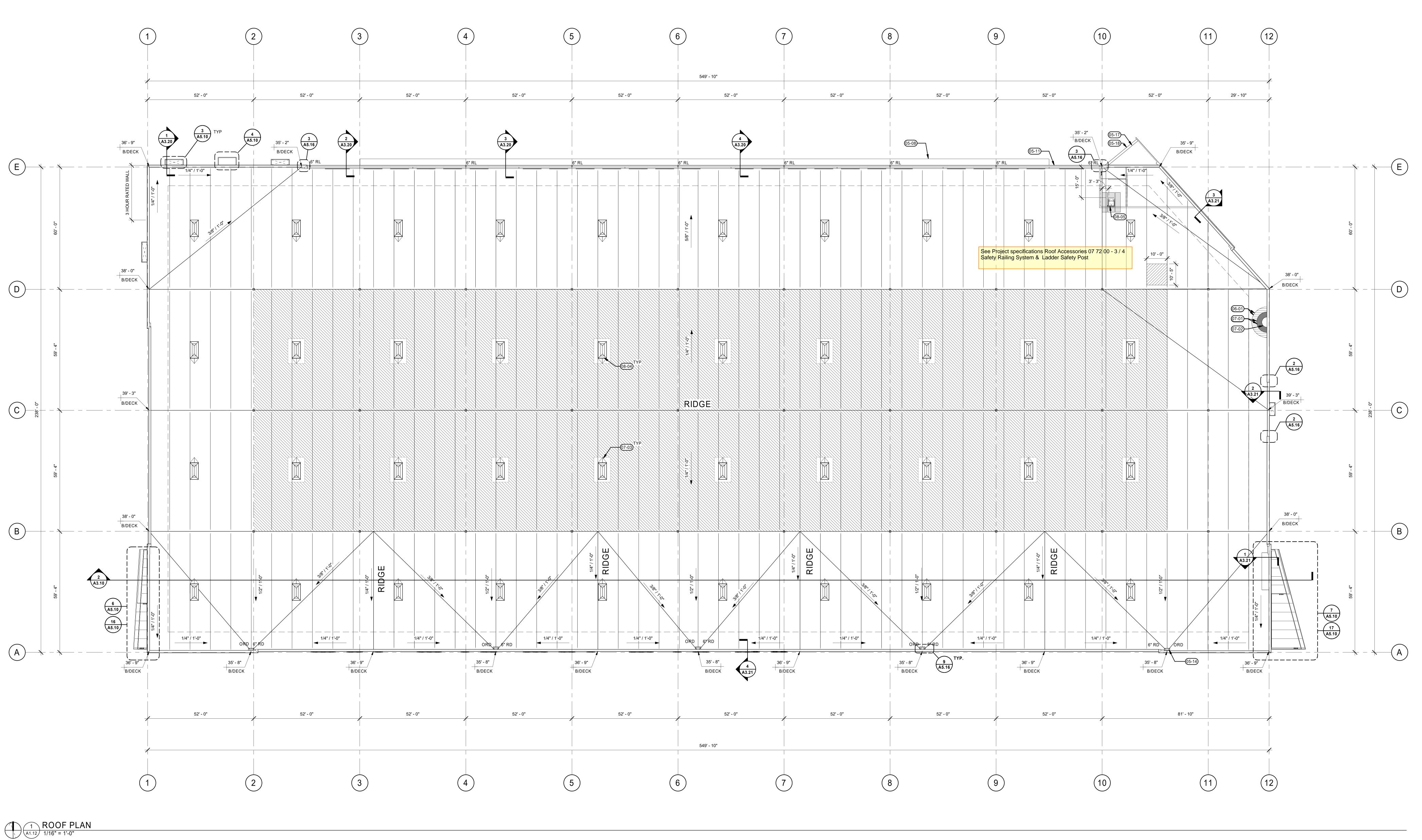
**OWNER LLC** 

FORTRESS -PUYALLUP

240 15TH ST SE

Mechanical/Electrical

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.

MACKENZIE
2023 ALL RIGHTS RESERVED
THESE DRAWINGS ARE THE PROPERTY OF
MACKENZIE AND ARE NOT TO BE USED
OR REPRODUCED IN ANY MANNER,
WITHOUT PRIOR WRITTEN PERMISSION

REVISION SCHEDULE

Delta Issued As Issue Date

SHEET TITLE:

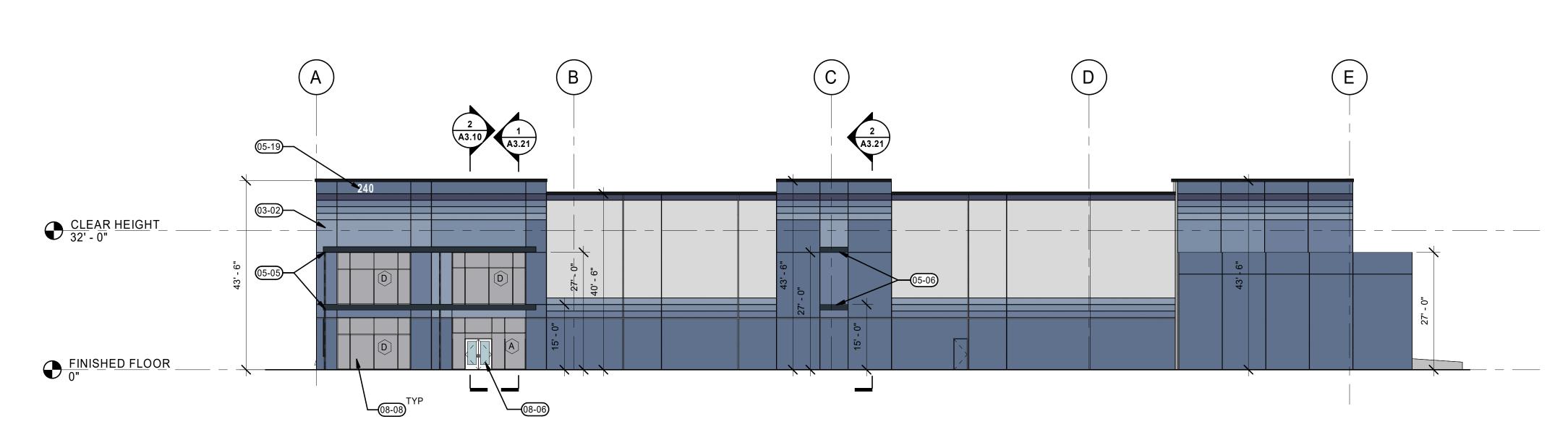
ROOF PLAN

**Δ112** 

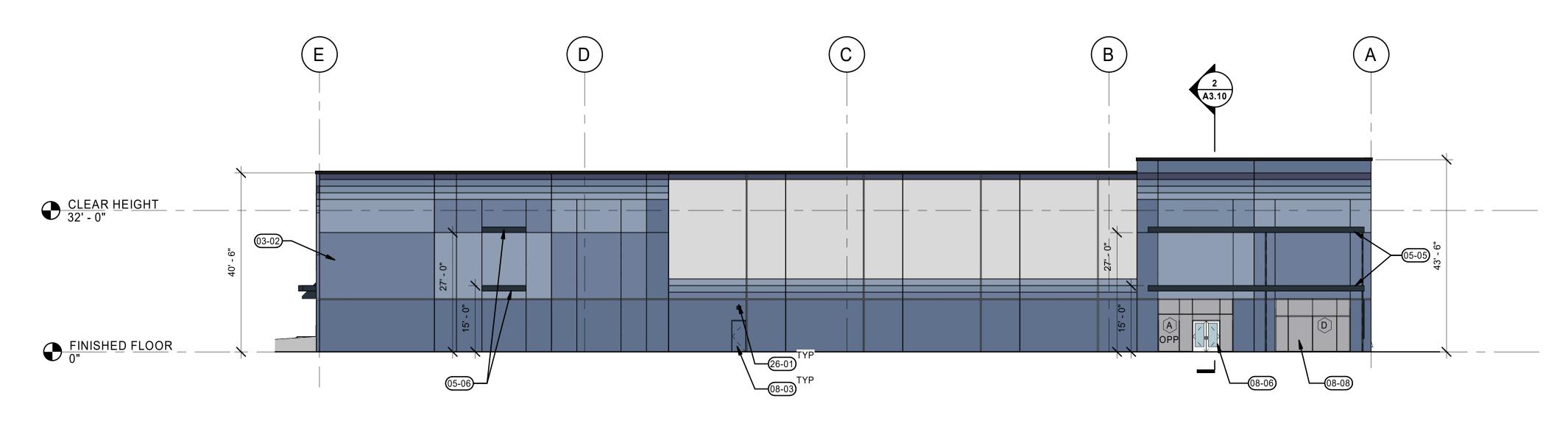
A1.12



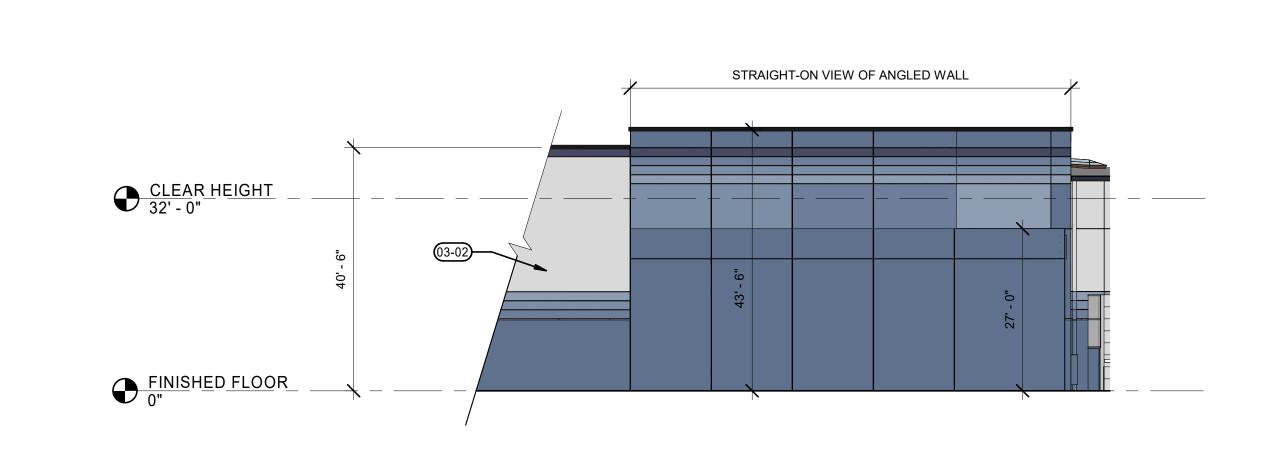
2 SOUTH ELEVATION
A2.11 1/16" = 1'-0"



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"

WALL MOUNTED EGRESS LIGHT BY ELECTRICAL.

KEYN	IOTES	PAINT LEGEND	
	NOTES	PAINT - PT1 SW 6523 WINDCHILL	
03-02	TILT-UP CONCRETE WALL, SEE STRUCTURAL. NO PAINT ON INTERIOR WALL.		
05-03	BOLLARD, SEE DETAIL 15/A5.13.		
05-04	STEEL ACCESS STAIR, BY DESIGN BUILD.	PAINT - PT2 SW 7619 DENIM	
05-05	METAL CANOPY. SEE SHEET DETAILS 9, 15, 18, & 19 ON SHEET A5.10.	SW 7019 DEINIM	
05-06	METAL ACCENT DETAIL PROJECTING FROM WALL. SEE DETAILS 9, 13, & 18 ON SHEET A5.10.	PAINT - PT3	
05-07	METAL COPING. SEE DETAIL 1/A5.16.	SW 7619 LABRADORITE	
05-08	BIDDER-DESIGN: DOCK DOOR CANOPY. SEE DETAILS 14, 15, & 16 ON SHEET A5.14.		
05-11	SHEET METAL GUTTER, PAINT. SEE DETAIL 3/A5.16.	PAINT - PT4	
05-13	DOWNSPOUT GUARD, PAINT TO MATCH BUILDING BEHIND. SEE DETAIL 7/A5.14.	SW 6522 SPORTY BLUE	
05-14	DOWNSPOUT OVERFLOW. SEE DETAIL 11/A5.16.	PAINT - PT5	
05-16	TRELLIS PANEL SYSTEM. SEE DETAIL 16/A5.13.	SW 9151 DAPHNE	
05-19	FIRE DEPARTMENT BUILDING ADDRESS. 24" TALL AND 1/2" THICK METAL LETTERS, COLOR WHITE.		
08-01	INSULATED OVERHEAD DOOR. PAINT TO MATCH BUILDING. SEE DOOR TYPES ON A6.10 FOR ADDITIONAL INFO.	PAINT - PT6 SW 9176 DRESS BLUES	
08-02	INSULATED OVERHEAD DRIVE-IN DOOR. PAINT TO MATCH. SEE DOOR TYPES ON A6.10 FOR ADDITIONAL INFO.	DAINT DT	
08-03	INSULATED HM DOOR. SEE DOOR TYPES ON A6.10 FOR ADDITIONAL INFO.	PAINT - PT SW 9179 ANCHORS AWEIGH	
08-06	STOREFRONT ENTRY.	SW 9179 ANOHORS AWEIGH	
08-07	CLERESTORY GLAZING.		
08-08	CLEAR ANODIZED ALUMINUM STOREFRONT SYSTEM.	NOTE	
09-01	BUILDING ADDRESS, PAINTED P-TBD.	NOTE: EXTERIOR WALL PAINT: LOXON XP OR ALERNATE (ELAST)	OMEDIC
11-01	DOCK DOOR BUMPER.	LATERIOR WALL FAINT. LOADIN AF OR ALERNATE (ELASTI	OWENIC)

**Portland, OR** 503.224.9560

**Vancouver, WA** 360.695.7879

**Seattle, WA** 206.749.9993

www.mcknze.com

MACKENZIE DESIGN DRIVEN | CLIENT FOCUSED

**CREF3 PUYALLUP** 

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

OWNER LLC

FORTRESS -**PUYALLUP** 

240 15TH ST SE

Mechanical/Electrical

PUYALLUP, WA 98372

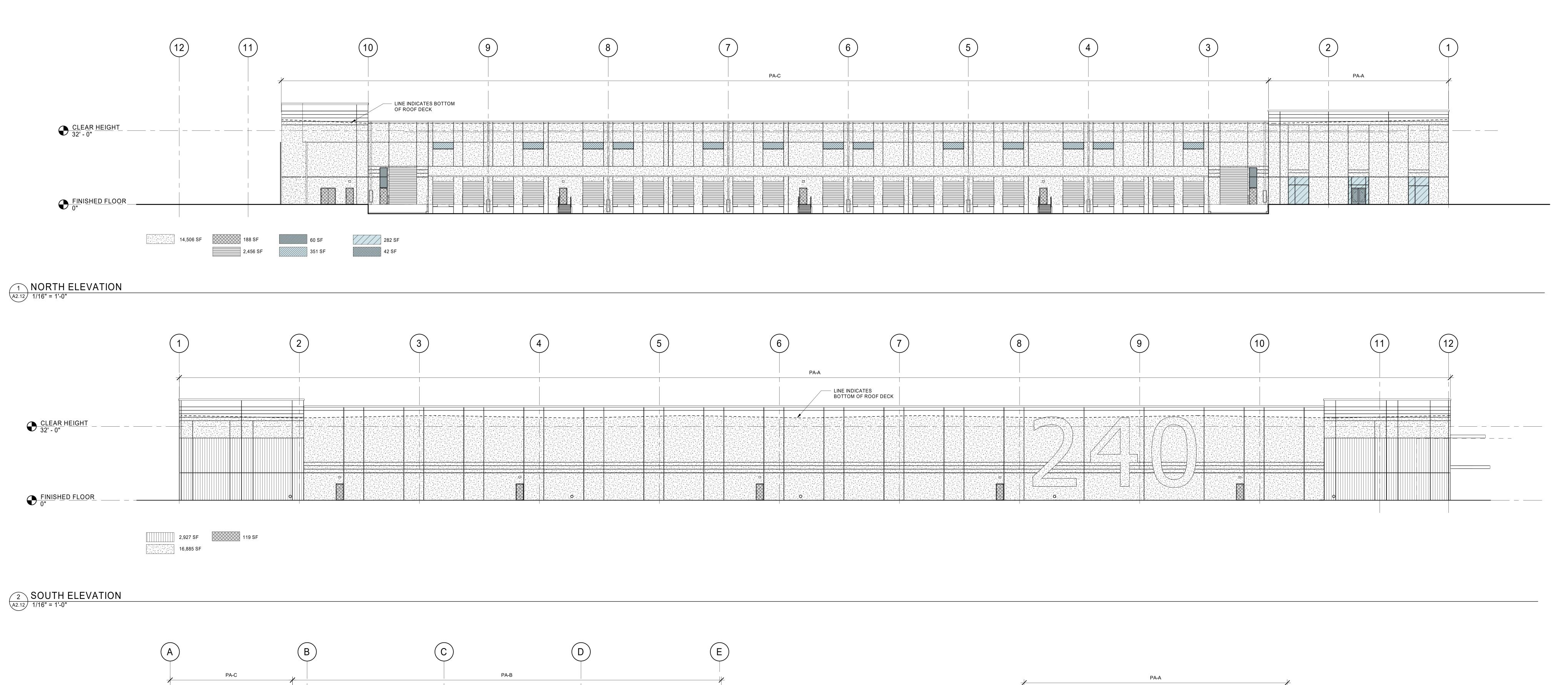
MACKENZIE
2023 ALL RIGHTS RESERVED
THESE DRAWINGS ARE THE PROPERTY OF
MACKENZIE AND ARE NOT TO BE USED
OR REPRODUCED IN ANY MANNER, WITHOUT PRIOR WRITTEN PERMISSION

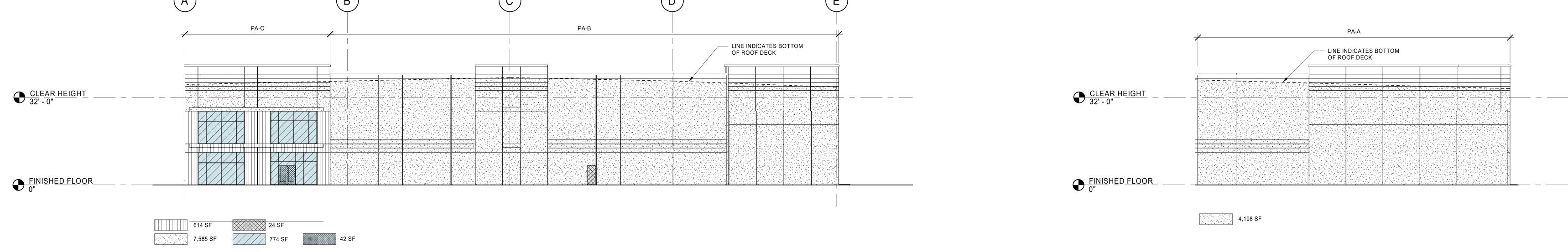
REVISION SCHEDULE

SHEET TITLE: BUILDING **ELEVATIONS** 

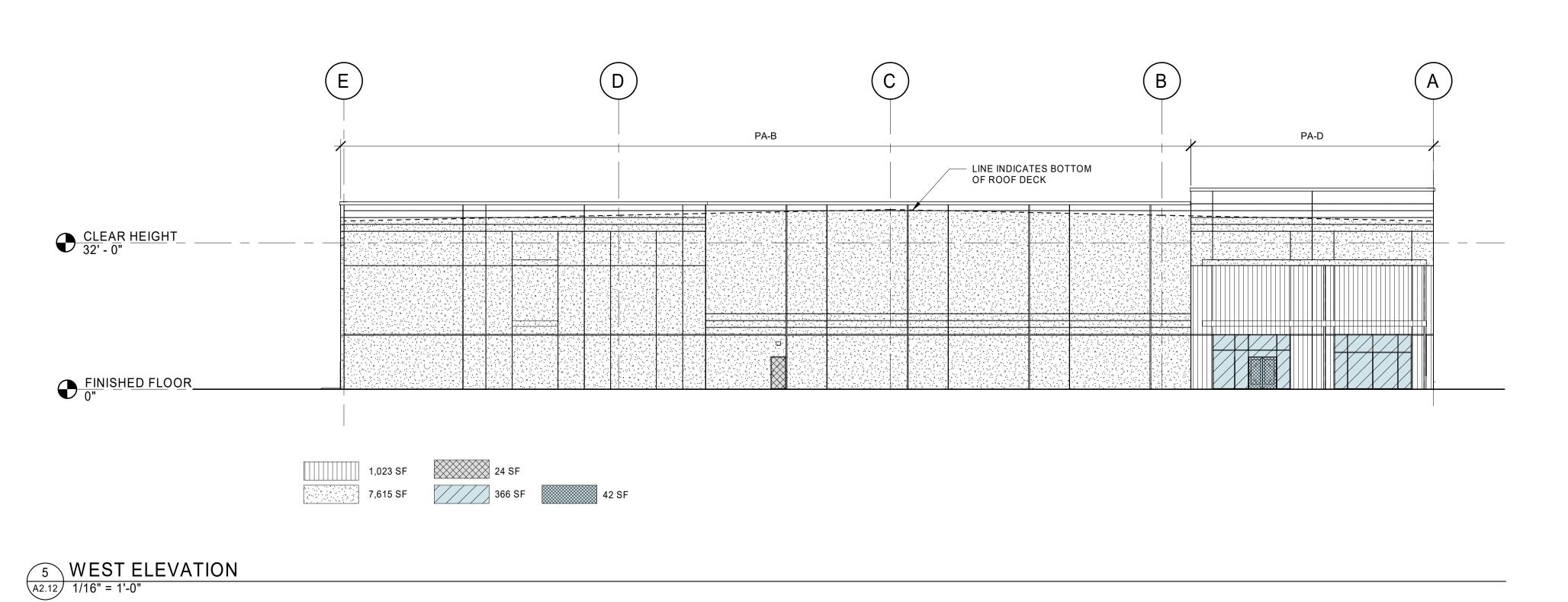
SHEET

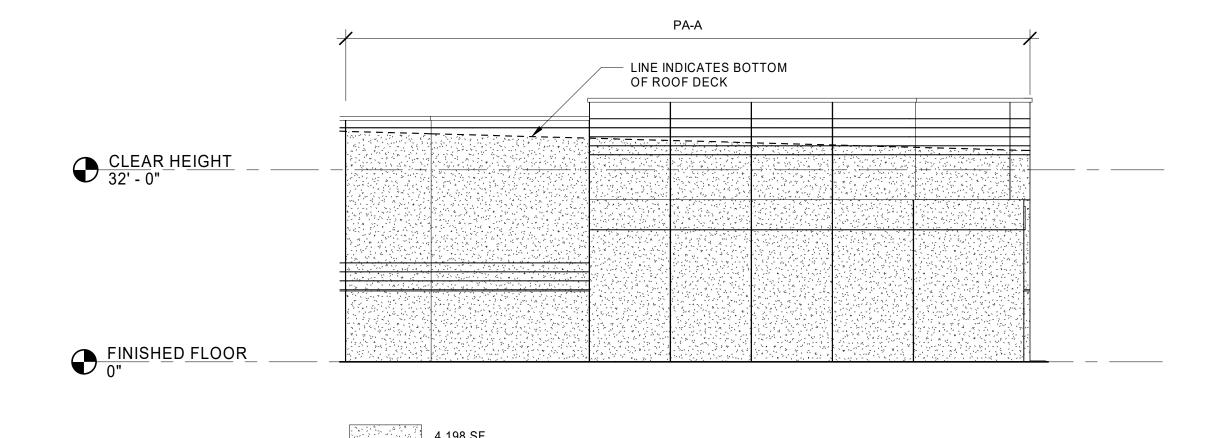
A2.11





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

LLOLIND		
	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	60SF

STOREFRONT DOORS

U=0.60

**Portland, OR** 503.224.9560 **Vancouver, WA** 360.695.7879 **Seattle, WA** 206.749.9993 www.mcknze.com

MACKENZIE.

**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

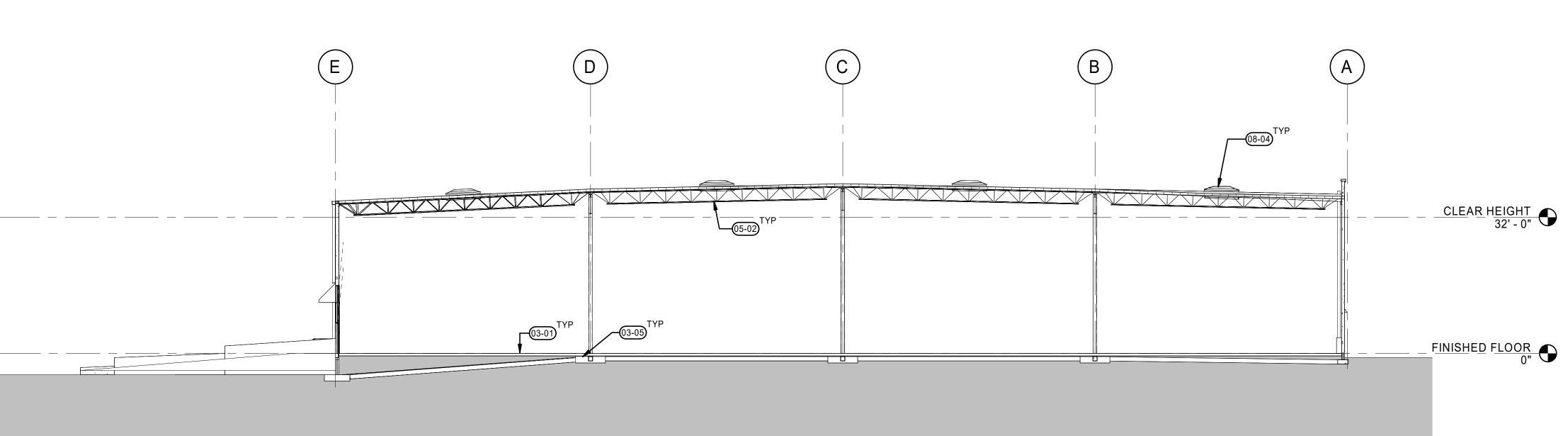
© MACKENZIE 2023 ALL RIGHTS RESERVED THESE DRAWINGS ARE THE PROPERTY OF MACKENZIE AND ARE NOT TO BE USED OR REPRODUCED IN ANY MANNER, WITHOUT PRIOR WRITTEN PERMISSION REVISION SCHEDULE

SHEET TITLE: BUILDING INSULATION **ELEVATIONS** 

SHEET

A2.12

126 SF



### **KEYNOTES**

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

CONCRETE FOOTING, SEE STRUCTURAL FOR SIZE AND

REINFORCING.

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

MACKENZIE. DESIGN DRIVEN | CLIENT FOCUSED

Planning - Engineering

**Portland, OR** 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

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

Mechanical/Electrical

MACKENZIE
2023 ALL RIGHTS RESERVED
THESE DRAWINGS ARE THE PROPERTY OF
MACKENZIE AND ARE NOT TO BE USED
OR REPRODUCED IN ANY MANNER,

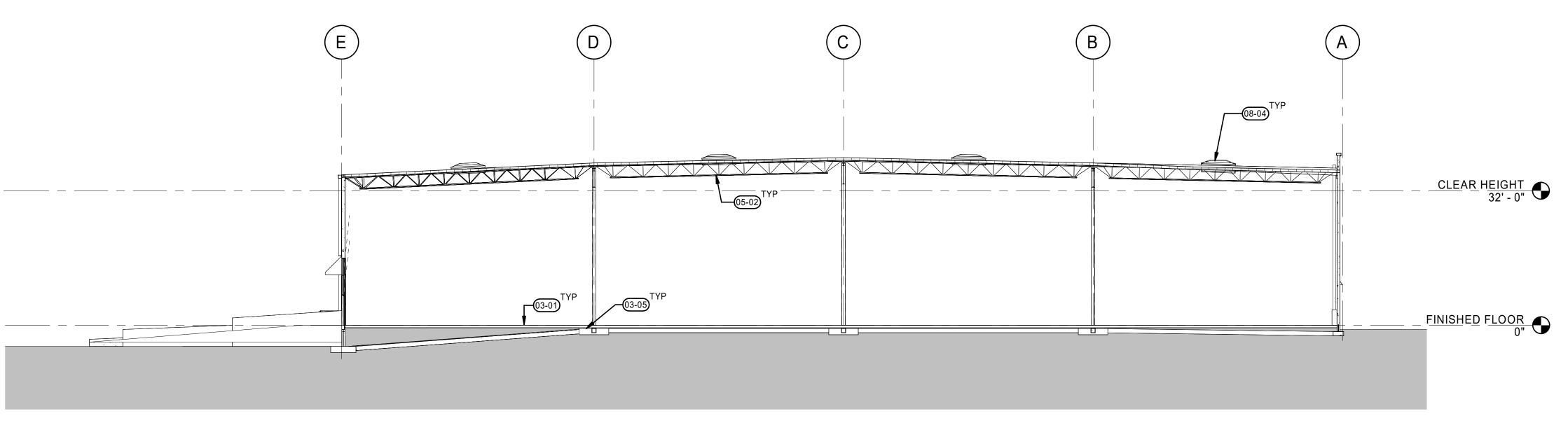
WITHOUT PRIOR WRITTEN PERMISSION REVISION SCHEDULE

SHEET TITLE: SECTIONS

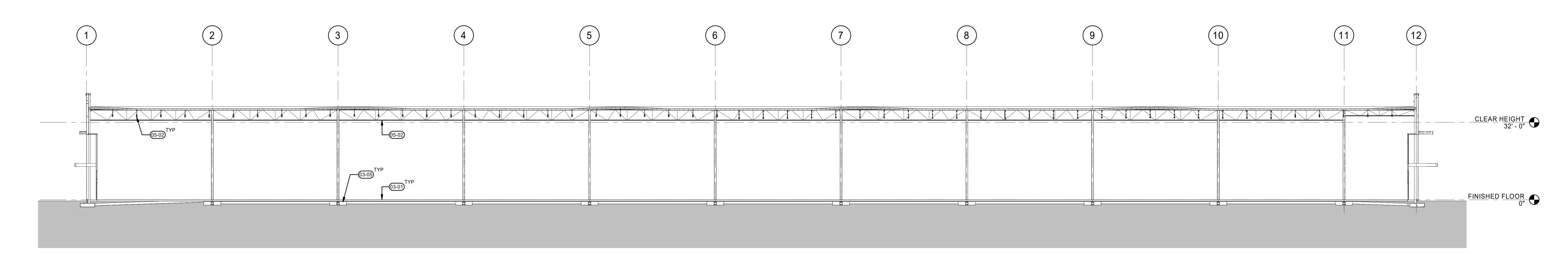
A3.10

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

Autodesk Docs://Fortress-Puyallup/290-Fortress-Puyallup-V23-A.rvt 6/28/2023 2:47:31 PM 1/16" = 1'-0"







2 WALL SECTION A3.10 1/16" = 1'-0"

MACKENZIE.

**CREF3 PUYALLUP** 

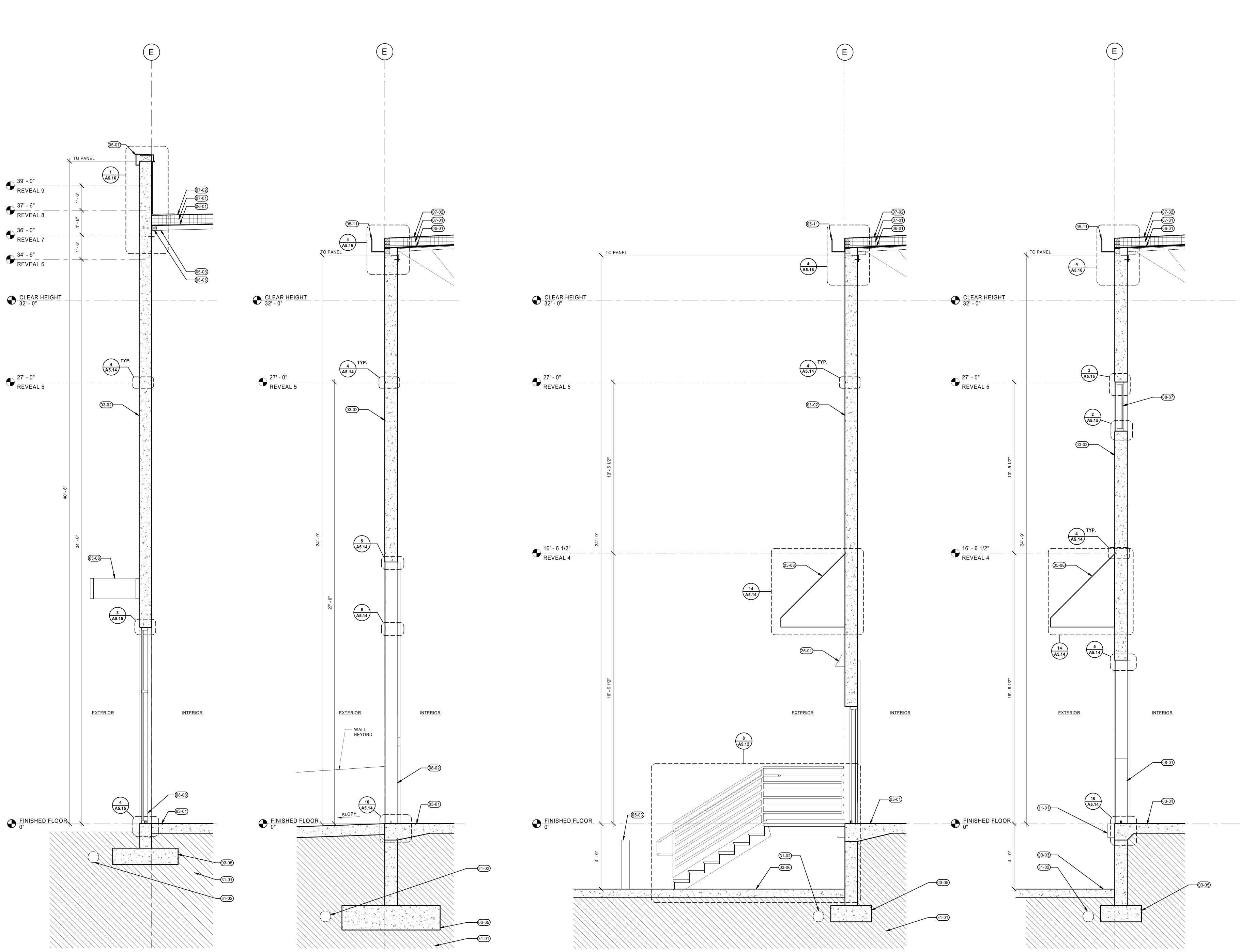
11611 SAN VICENTE BLVD.

LOS ANGELES, CA 90049

OWNER LLC

**10TH FLOOR** 

DESIGN DRIVEN | CLIENT FOCUSED



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

CONCRETE FOOTING, SEE STRUCTURAL FOR SIZE AND

FINISHER. TILT-UP CONCRETE WALL, SEE STRUCTURAL. NO PAINT

03-02 ON INTERIOR WALL. REINFORCED CONCRETE TRUCK APRON. SEE CIVIL DRAWINGS.

03-06 CONCRETE PAVING. 05-03 BOLLARD, SEE DETAIL 15/A5.13. METAL ACCENT DETAIL PROJECTING FROM WALL. SEE

REINFORCING.

**CANOPY GENERAL NOTES** 

CONSTRUCTION.

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.

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

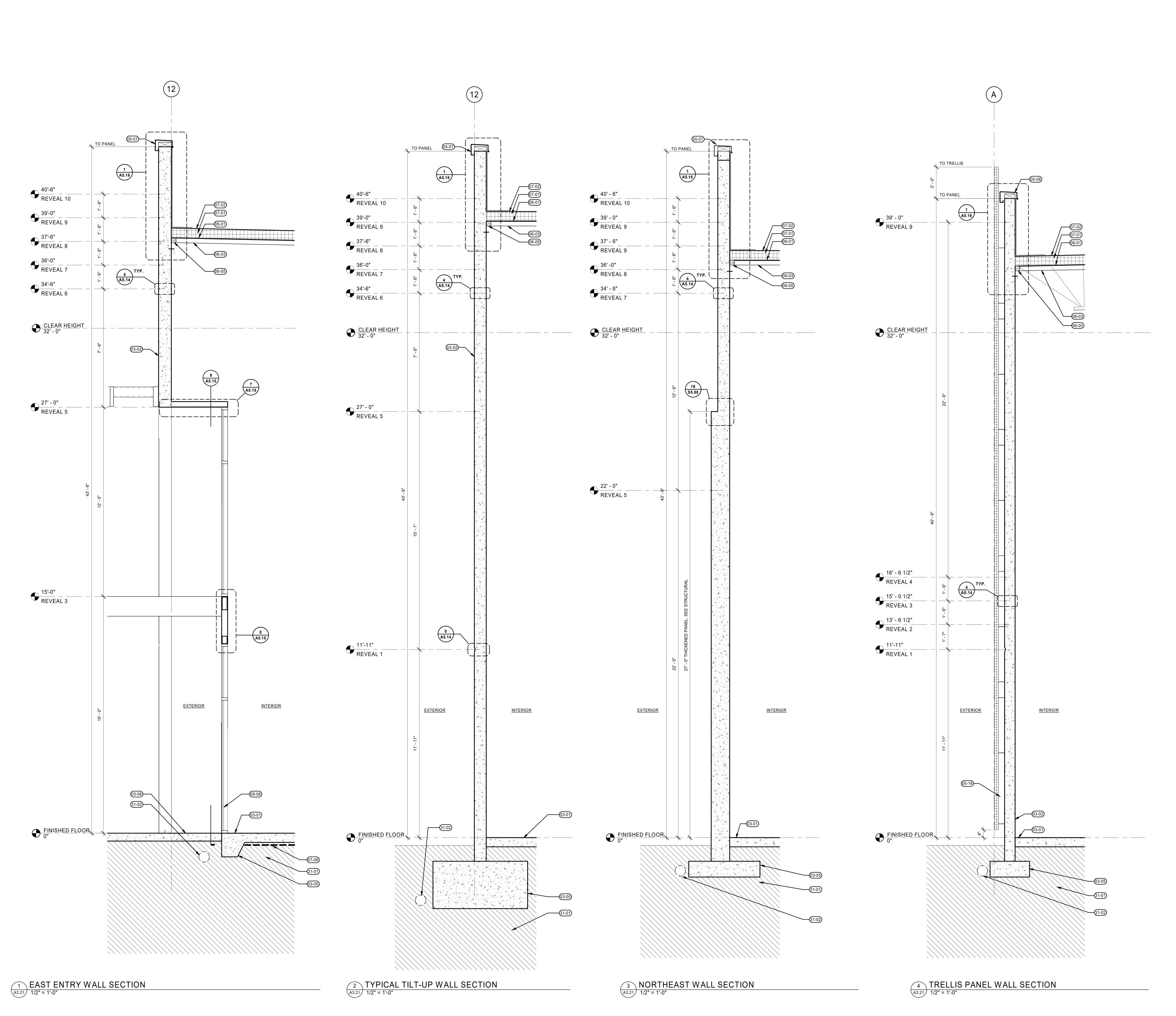
Mechanical/Electrical

MACKENZIE
2023 ALL RIGHTS RESERVED
THESE DRAWINGS ARE THE PROPERTY OF
MACKENZIE AND ARE NOT TO BE USED
OR REPRODUCED IN ANY MANNER,
WITHOUT PRIOR WRITTEN PERMISSION

SHEET TITLE:
WALL
SECTIONS

A3.20

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





### **CANOPY GENERAL NOTES**

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

Vancouver, WA 360.695.7879 **Seattle, WA** 206.749.9993 www.mcknze.com

DESIGN DRIVEN | CLIENT FOCUSED

MACKENZIE.

**CREF3 PUYALLUP** 

11611 SAN VICENTE BLVD.

LOS ANGELES, CA 90049

OWNER LLC

Portland, OR 503.224.9560

### **KEYNOTES**

REINFORCED CONCRETE SLAB PER STRUCTURAL, SEALED AND POLISHED WITH DAYTON PENTRA-HARD 03-02 TILT-UP CONCRETE WALL, SEE STRUCTURAL. NO PAINT

TRELLIS PANEL SYSTEM. SEE DETAIL 16/A5.13.

ON INTERIOR WALL. CONCRETE FOOTING, SEE STRUCTURAL FOR SIZE AND

15, & 16 ON SHEET A5.14.

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

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.

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

Mechanical/Electrical

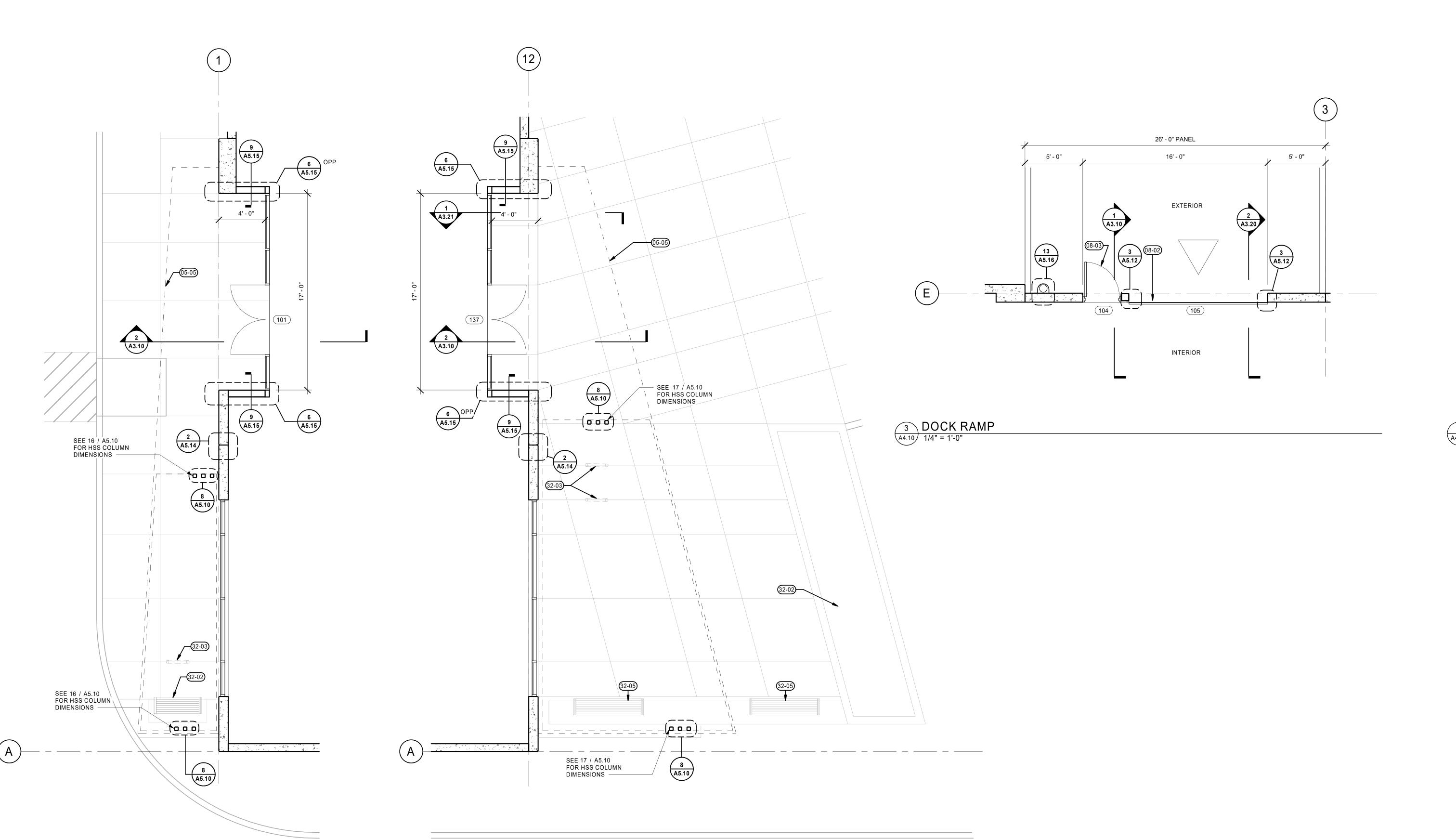


MACKENZIE
2023 ALL RIGHTS RESERVED
THESE DRAWINGS ARE THE PROPERTY OF
MACKENZIE AND ARE NOT TO BE USED
OR REPRODUCED IN ANY MANNER,
WITHOUT PRIOR WRITTEN PERMISSION REVISION SCHEDULE

SHEET TITLE:
WALL
SECTIONS

A3.21

JOB NO. **222**0290.00 PERMIT SET 6/28/2023
Autodesk Docs://Fortress-Puyallup/290-Fortress-Puyallup-V23-A.rvt 6/28/2023 2:47:41 PM As indicated



103

102

11' - 8"

5 ELECTRICAL ROOM AND FIRE SPRINKLER

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



### **CANOPY GENERAL NOTES**

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

**Vancouver, WA** 360.695.7879 **Seattle, WA** 206.749.9993 www.mcknze.com

MACKENZIE DESIGN DRIVEN I CLIENT FOCUSED

**CREF3 PUYALLUP** 

OWNER LLC

**Portland, OR** 503.224.9560

### **KEYNOTES**

METAL CANOPY. SEE SHEET DETAILS 9, 15, 18, & 19 ON SHEET A5.10. 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

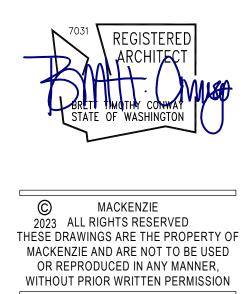
ADDITIONAL INFO.

LANDSCAPE ISLAND. 32-03 (2) BIKE RACKS - SEE DETAILS 8 & 9/A5.13. CAST IN PLACE CONCRETE WITH WOOD BENCH TOPPERS. SEE LANDSCAPE.

11611 SAN VICENTE BLVD. 10TH FLOOR INSULATED HM DOOR. SEE DOOR TYPES ON A6.10 FOR LOS ANGELES, CA 90049

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

Mechanical/Electrical

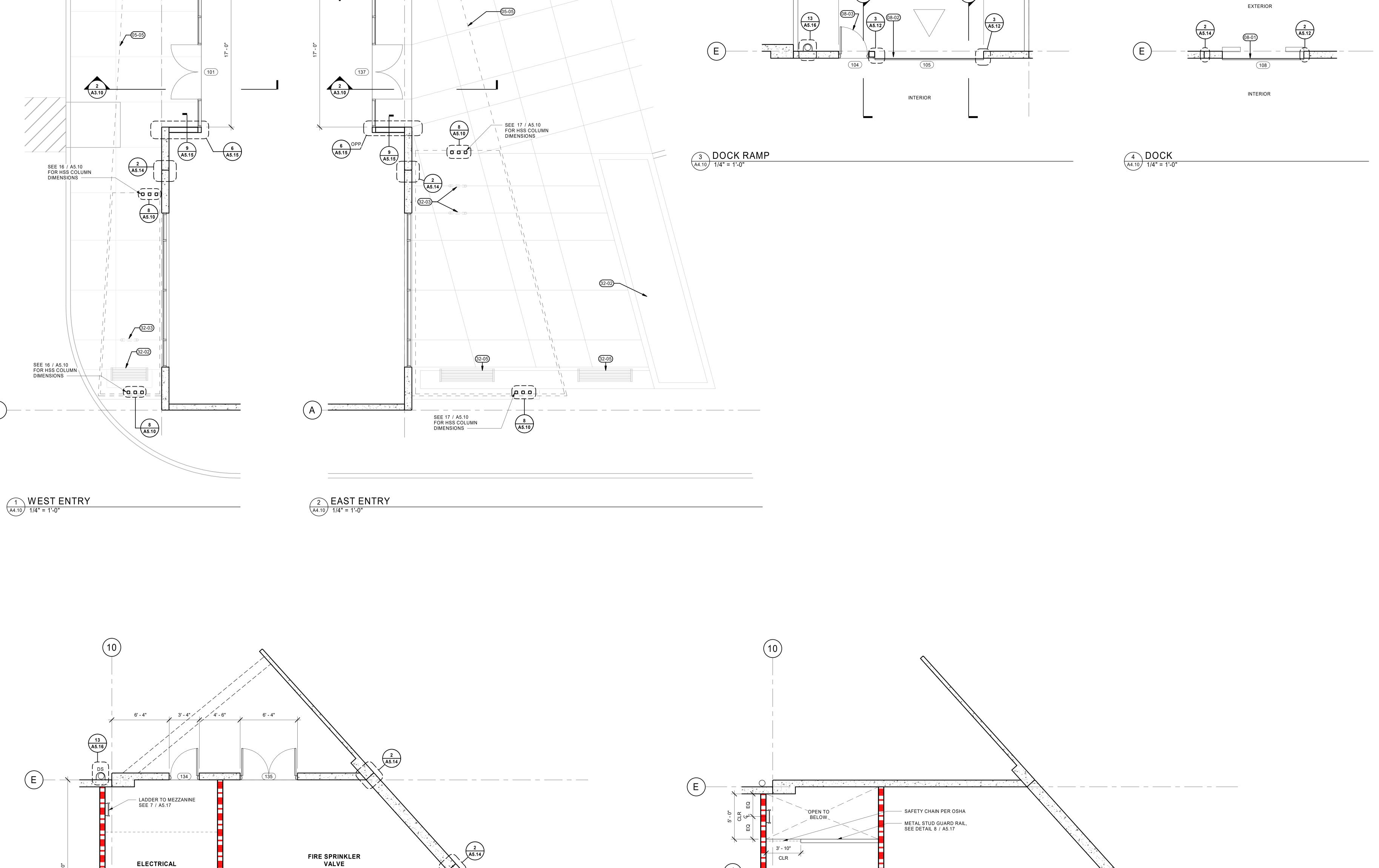


REVISION SCHEDULE

SHEET TITLE:
ENLARGED
PLANS

A4.10

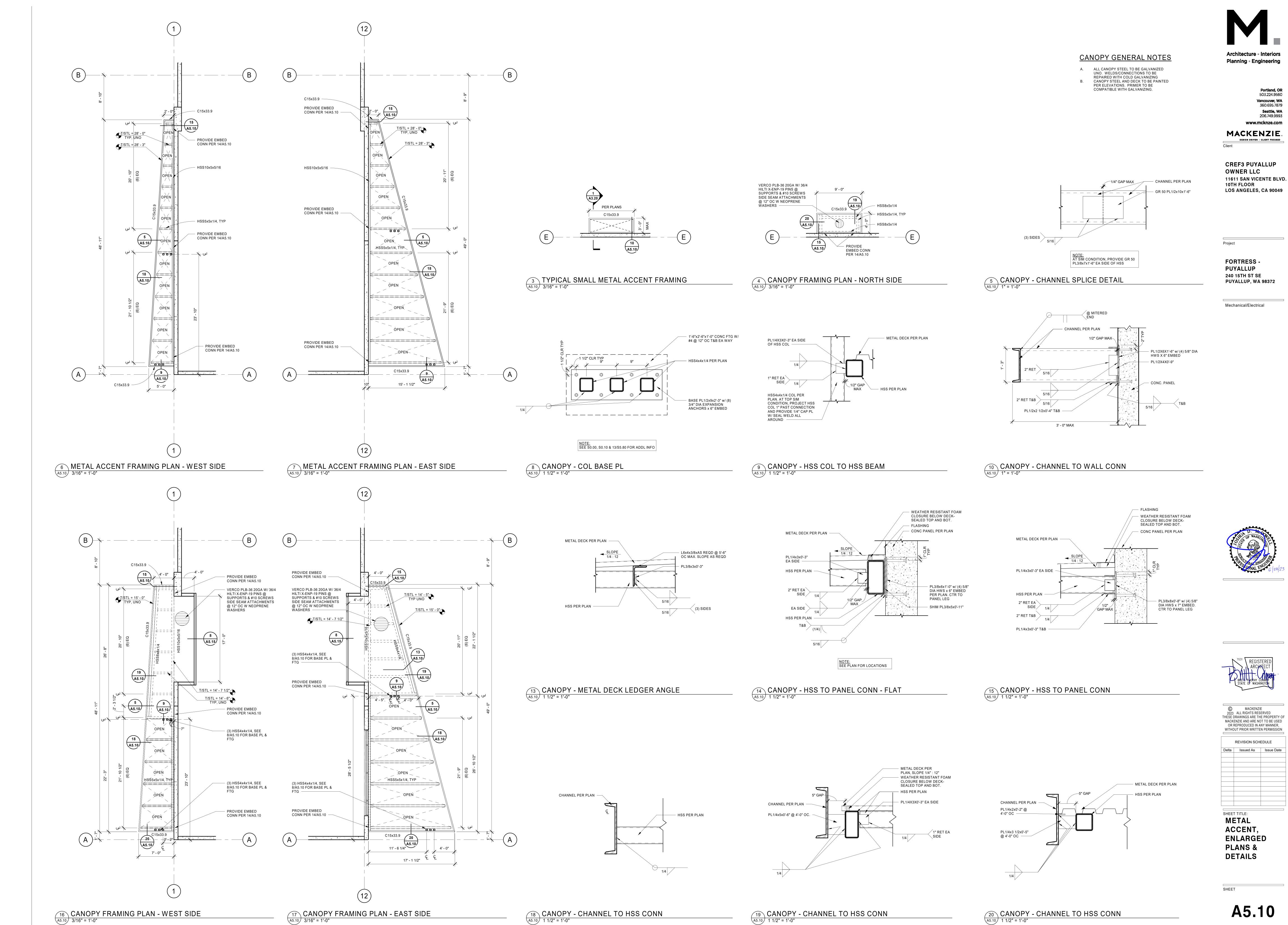




9 A5.17

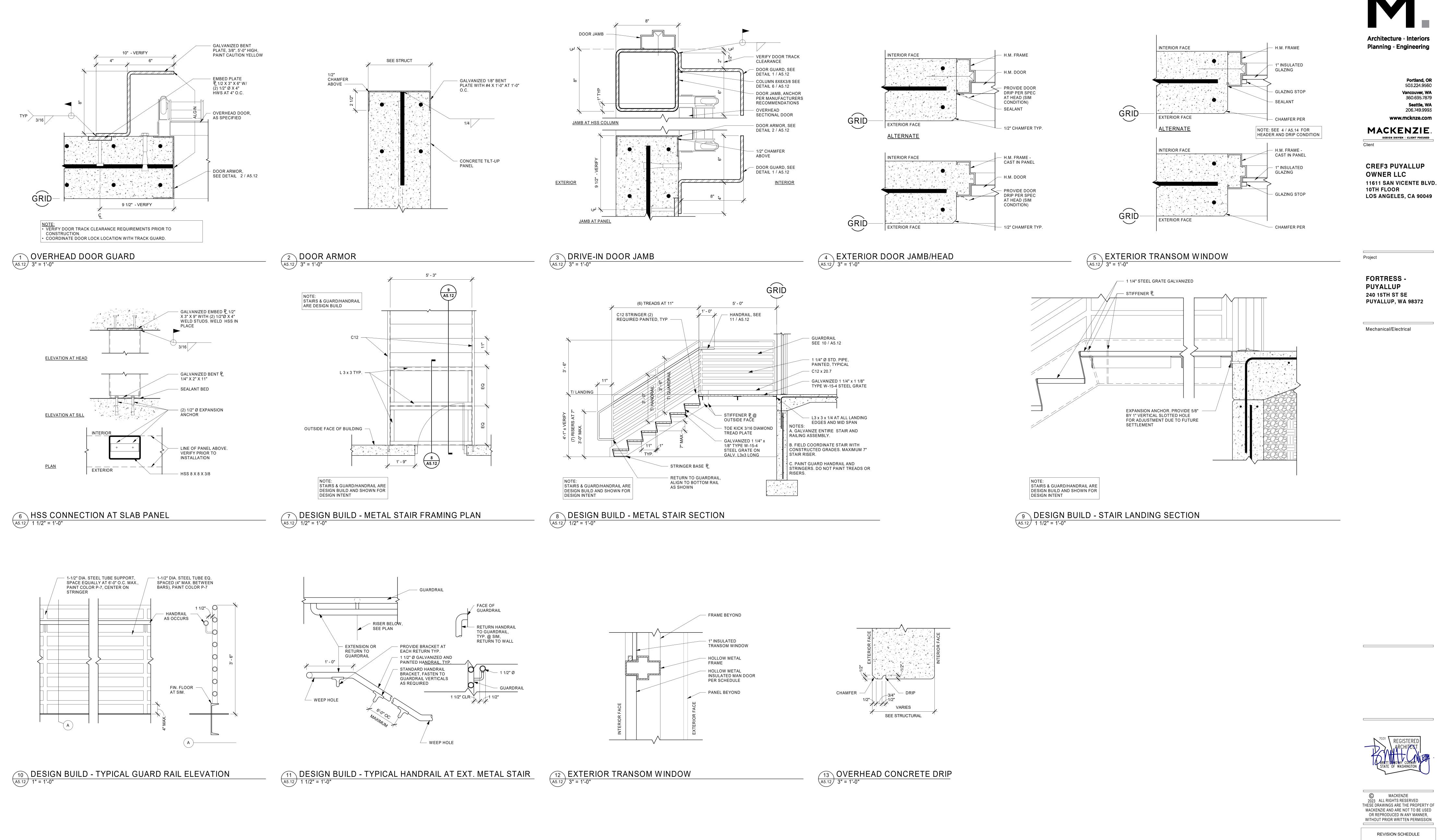
APPROXIMATE
LOCATION OF LADDER
TO ROOF AND HATCH
ABOVE, COORDINATE
WITH ROOF FRAMING.

6 MEZZANINE A4.10 1/4" = 1'-0"



JOB NO. **2220290.00** 

**PERMIT SET 6/28/2023** 



REVISION SCHEDULE

**Portland, OR** 503.224.9560

**Vancouver, WA** 360.695.7879

**Seattle, WA** 206.749.9993

www.mcknze.com

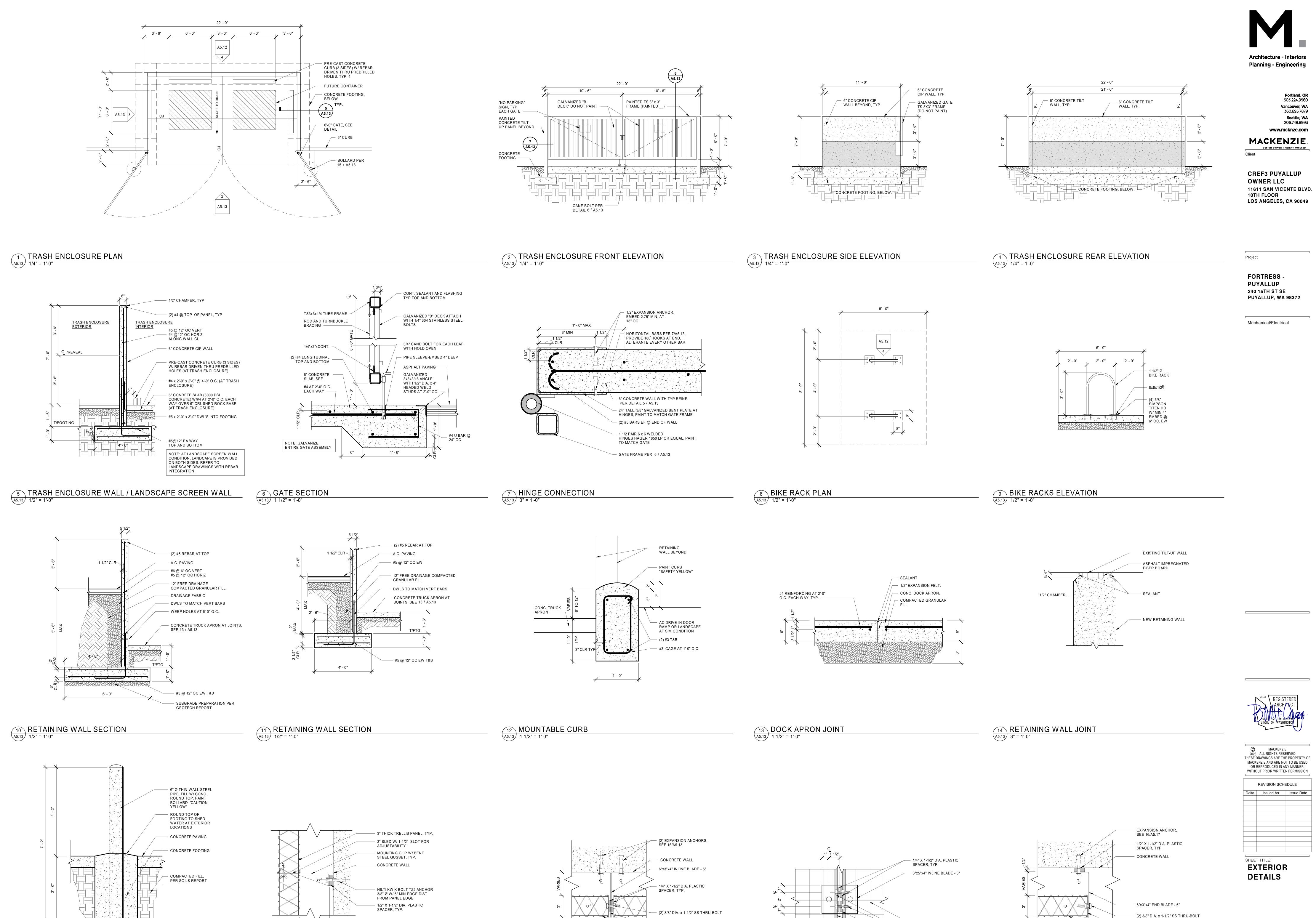
DESIGN DRIVEN | CLIENT FOCUSED

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



TRIM W/DRILL HOLES REQUIRED AT

PANEL EDGES W/ INLINE BLADE - 3"

- 3" THICK TRELLIS PANEL, TYP.

17 PLAN VIEW - TRELLIS INLINE BLADE

3" VARIES 4-1/4" TO 6"

16 FACE OF TRELLIS PANEL TO FACE OF WALL
A5.13 3" = 1'-0"

2' - 0"

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

JOB NO. **2220290.00** 

A5.13

**PERMIT SET 6/28/2023** 

TRIM W/DRILL HOLES REQUIRED AT

PANEL EDGES W/ END BLADE - 6"

- 3" THICK TRELLIS PANEL, TYP.

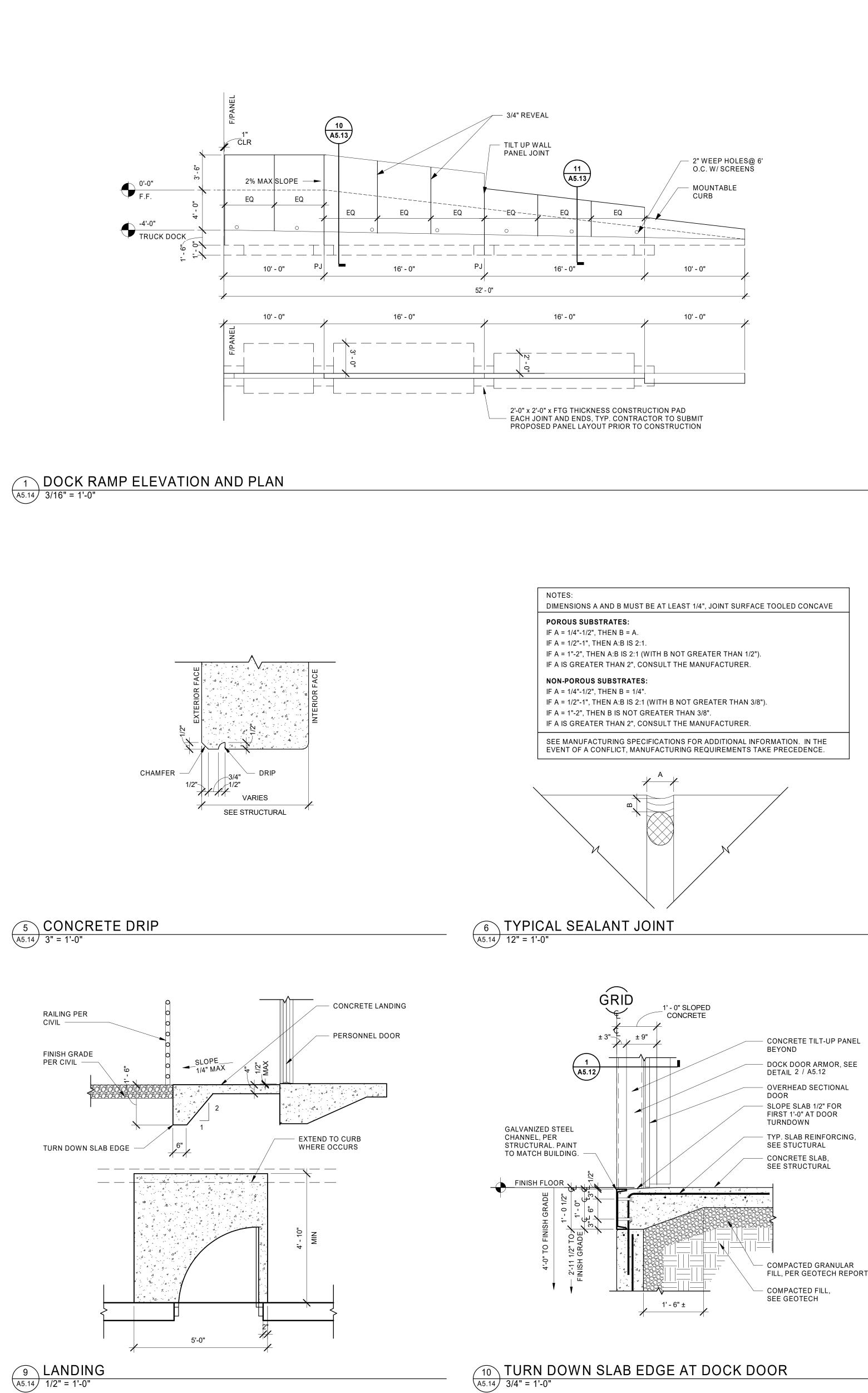
19 PLAN VIEW - TRELLIS PANEL END BLADE

- 3" THICK TRELLIS PANEL, TYP.

18 ELEVATION VIEW - TRELLIS INLINE BLADE

- (2) 3/8" DIA. x 1-1/2" SS THRU-BOLT

TRIM W/DRILL HOLES REQUIRED AT PANEL EDGES W/ INLINE BLADE - 3"



CONTINUOUS SEALANT

SURFACE MOUNTED REGLET

SEALANT TOP AND BOTTOM

FIELD NOTCH AND TURN

COLOR TO MATCH PX

DOWN FLASHING

4' - 0"

Provide approved design build plans onsite for

Special inspection is required on anchors unless

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

15 DOCK CANOPY SECTION 2

engineer address exclusion.

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

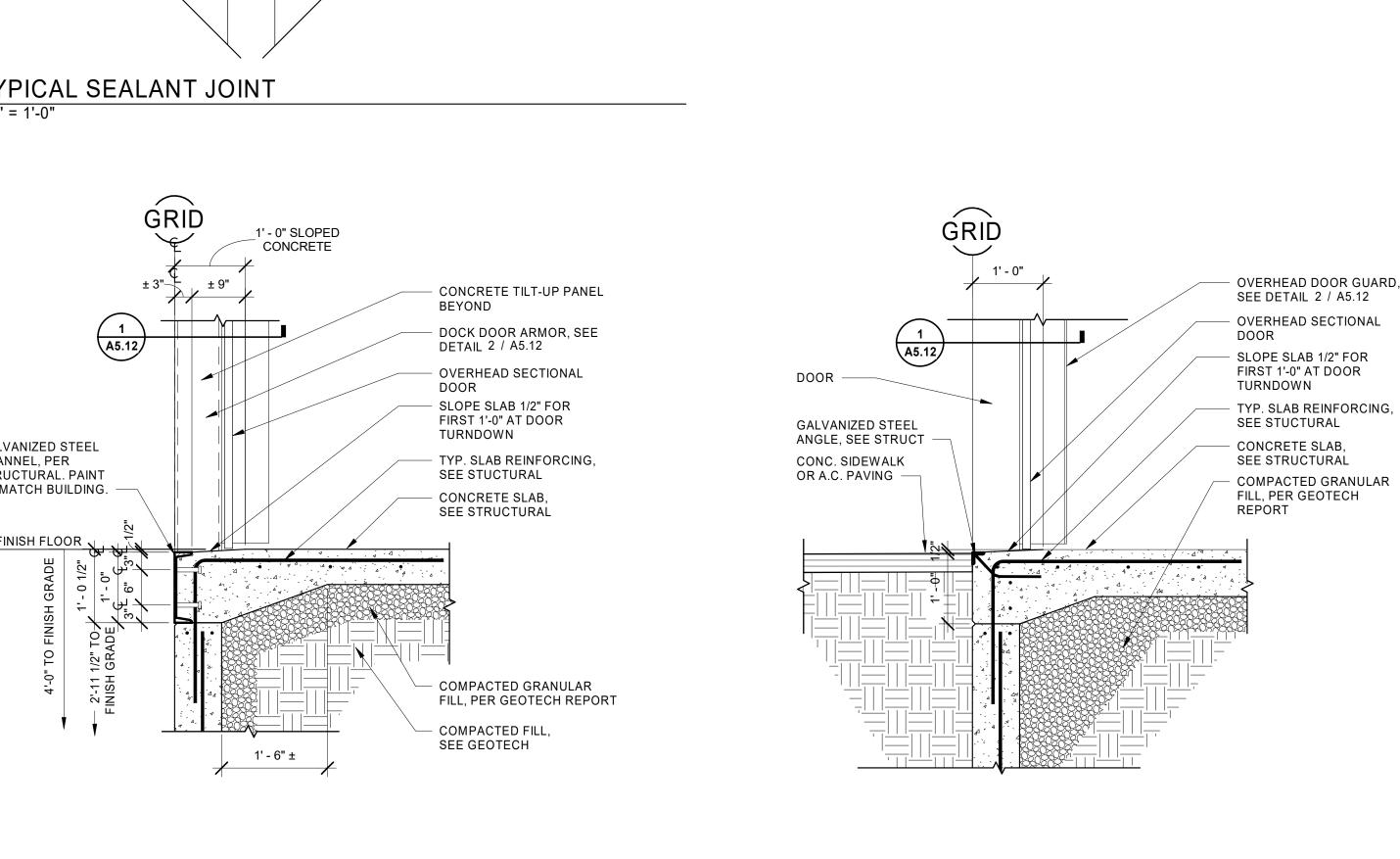
A5.14 1" = 1'-0"

NOTE: LOADING DOCK

END FLASHING

CANOPIES AND CONNECTION TO

STRUCTURE ARE DESIGN-BUILD



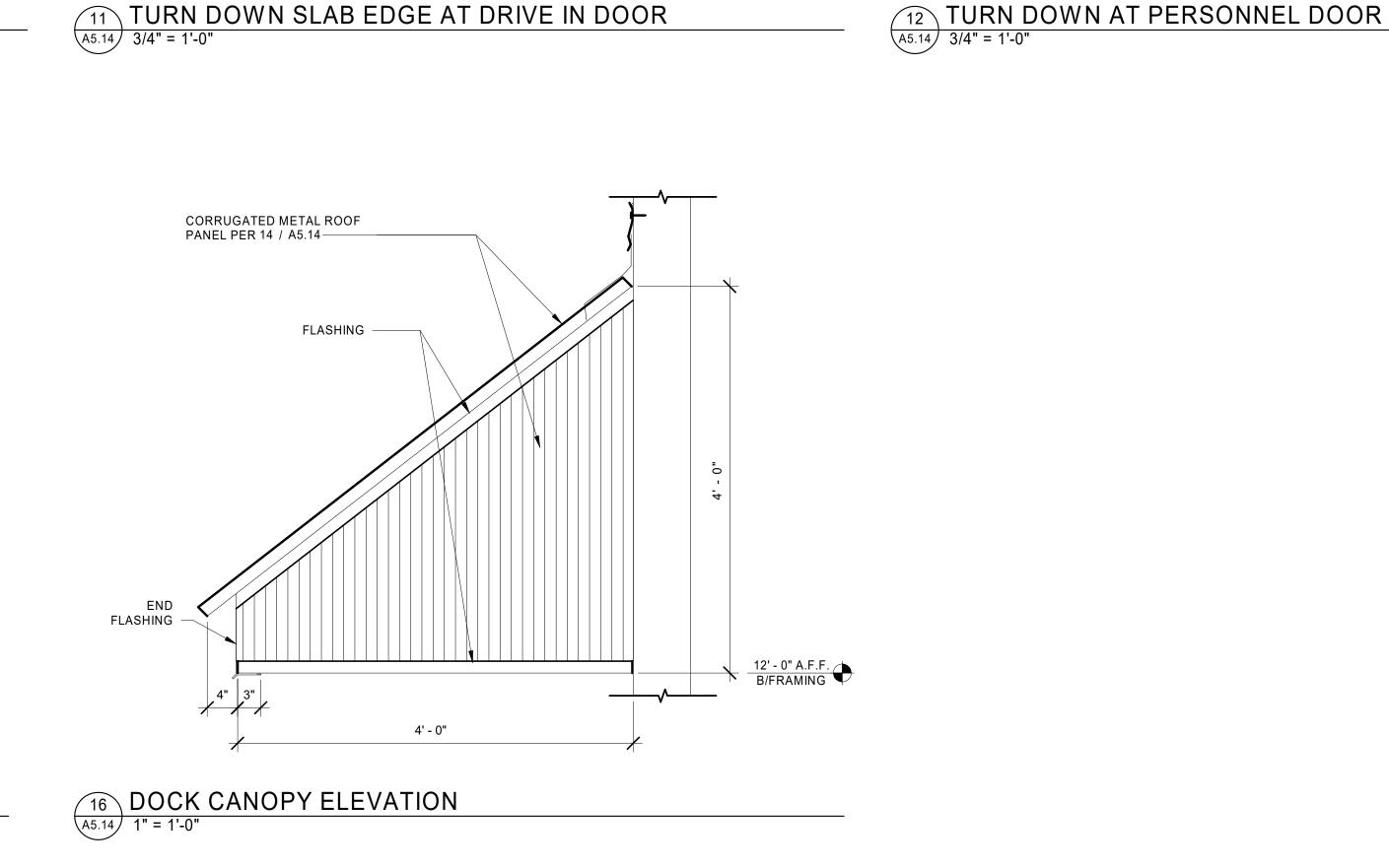
- CORRUGATED METAL ROOF PANEL

CORRUGATED METAL

ROOF PANEL AT END OF

<16 A5.14

CANOPY



- CONCRETE PANEL

TOOLED EDGE, TYPICAL AT INSIDE

- CERAMIC FIBER

AT FIRE RATED

WALLS

INTERIOR FACE

EXTERIOR FACE

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

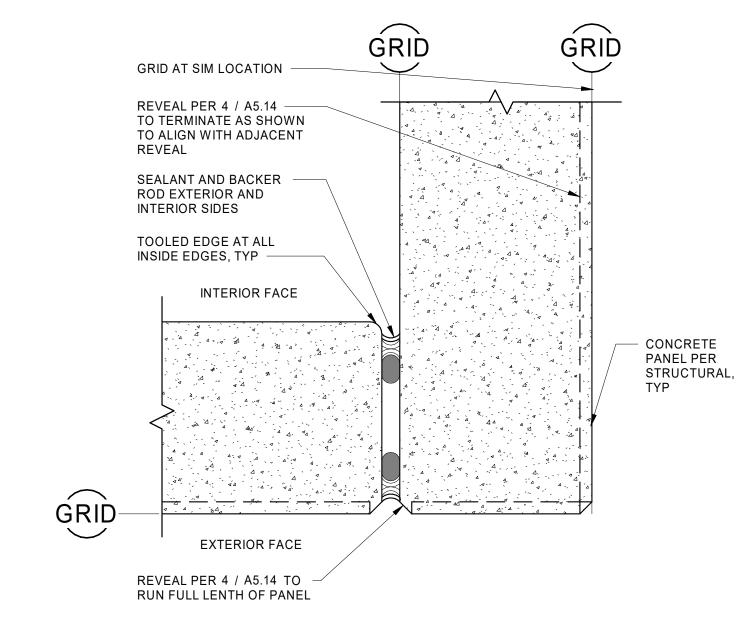
BLANKETS IN JOINTS

SEALANT AND BACKER ROD EXTERIOR AND

INTERIOR SIDES. SEE

DETAIL 6 / A5.14

- 1/2" CHAMFER TYP.



3 HORIZONTAL REVEAL AT OUTSIDE CORNER
A5.14 3" = 1'-0"

DOOR -

THRESHOLD —

CONC. SIDEWALK OR

A.C. PAVING

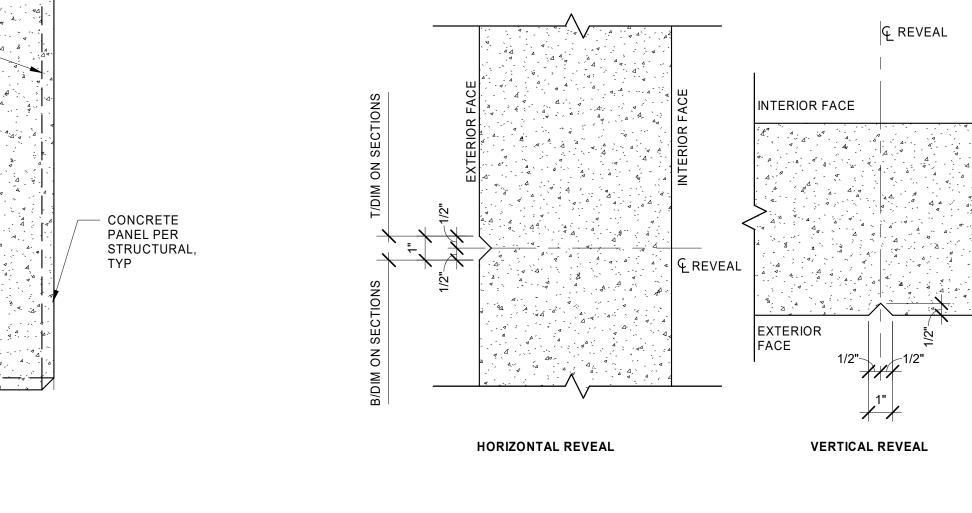
— TYP. SLAB REINFORCING,

COMPACTED GRANULAR

FILL, PER GEOTECH REPORT

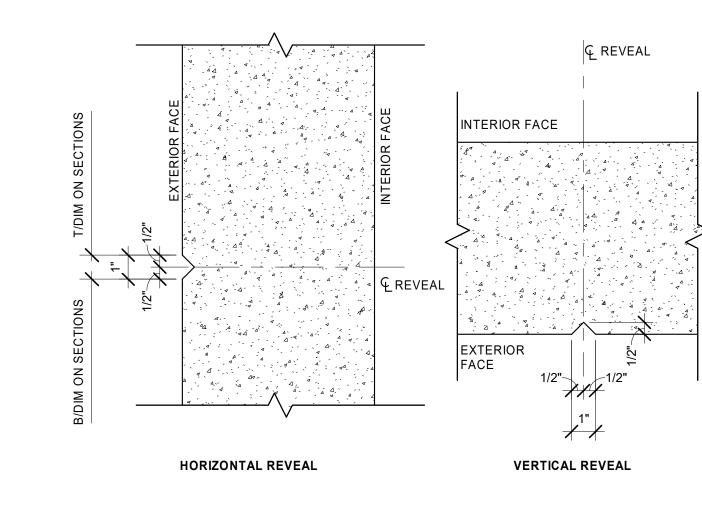
SEE STUCTURAL

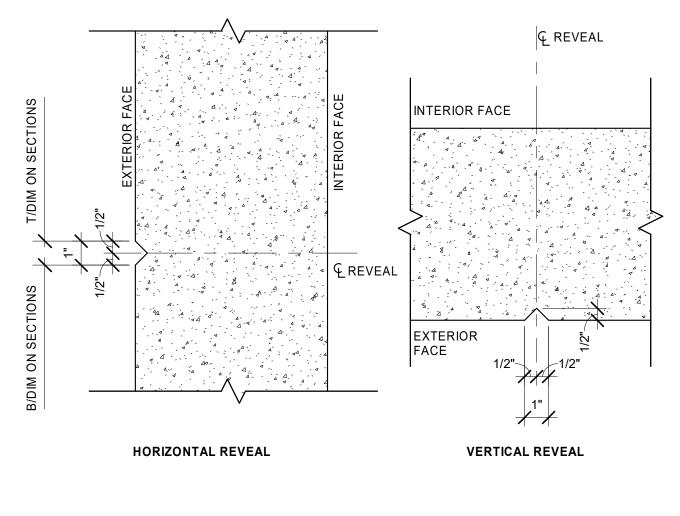
- CONCRETE SLAB

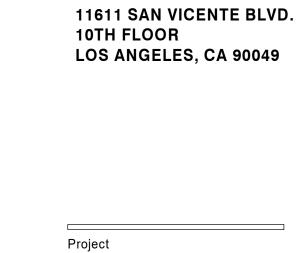


4 TYPICAL CONCRETE REVEAL

A5.14 3" = 1'-0"







Planning - Engineering

**Portland, OR** 503.224.9560

**Vancouver, WA** 360.695.7879

**Seattle, WA** 206.749.9993

www.mcknze.com

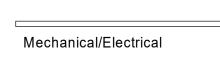
DESIGN DRIVEN | CLIENT FOCUSED

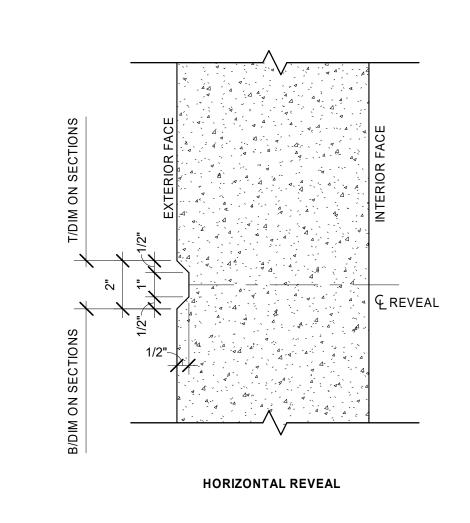
MACKENZIE.

**CREF3 PUYALLUP** 

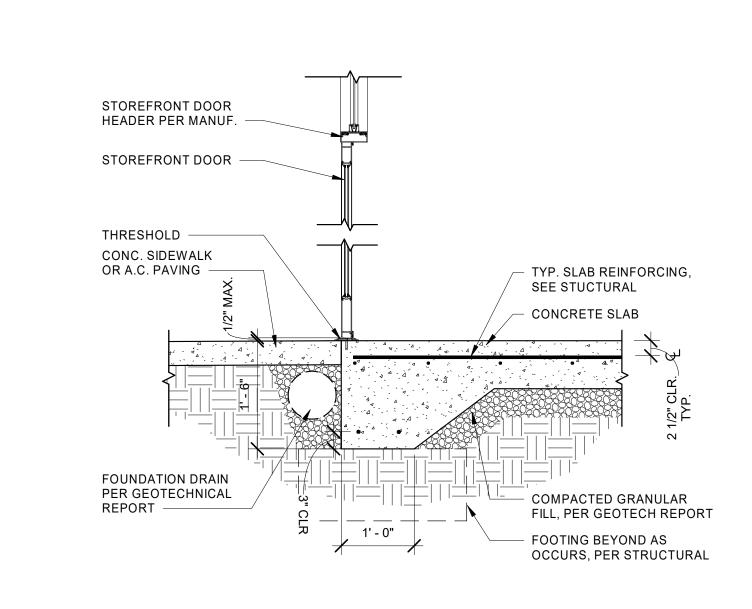
OWNER LLC



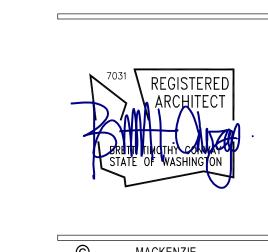


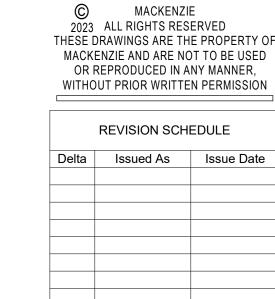








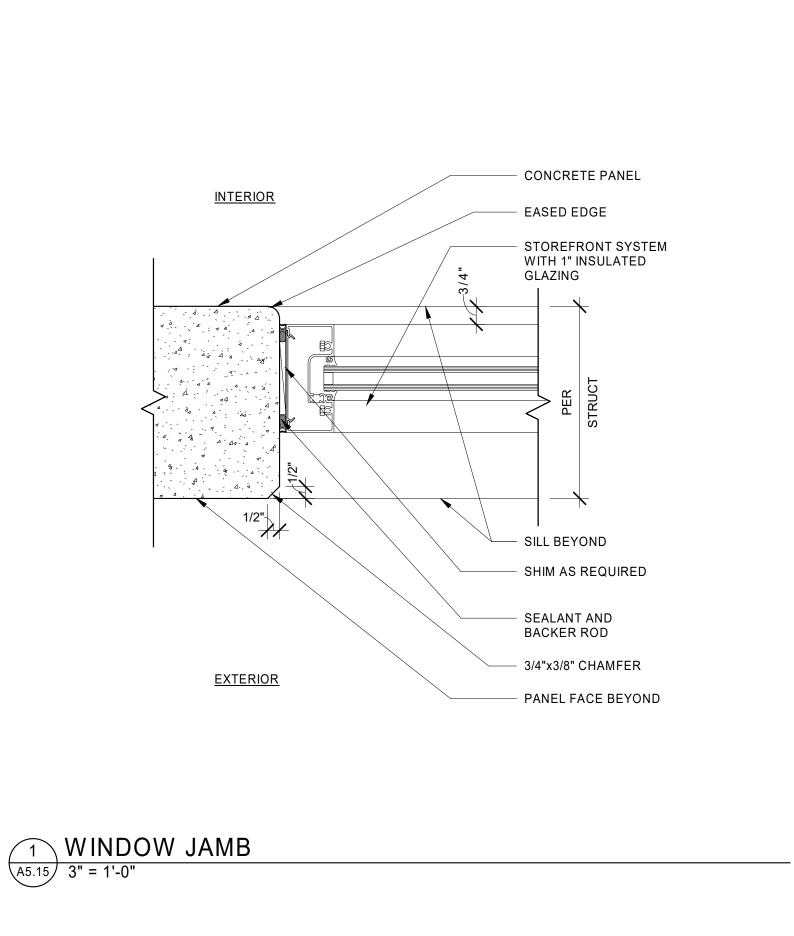




SHEET TITLE: **EXTERIOR DETAILS** 

SHEET A5.14

JOB NO. **2220290.00** 

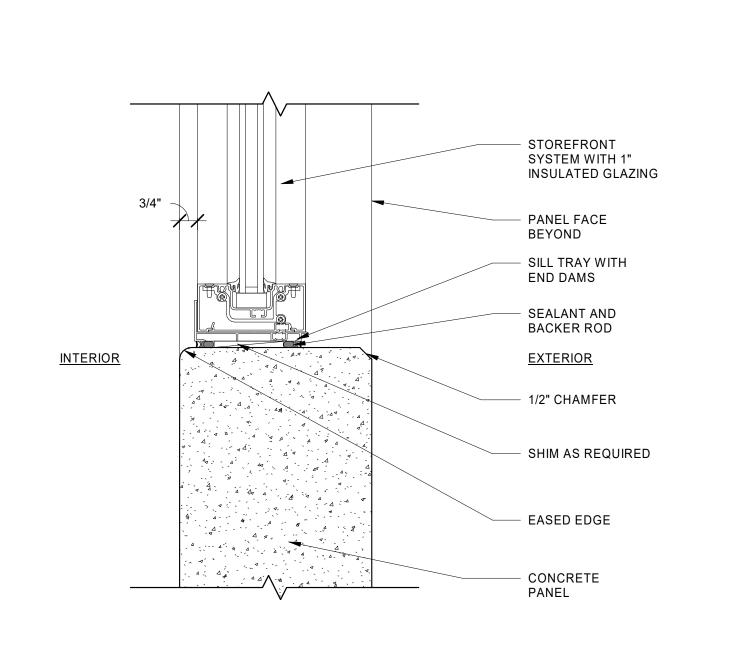


<u>INTERIOR</u>

**EXTERIOR** 

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

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



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

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

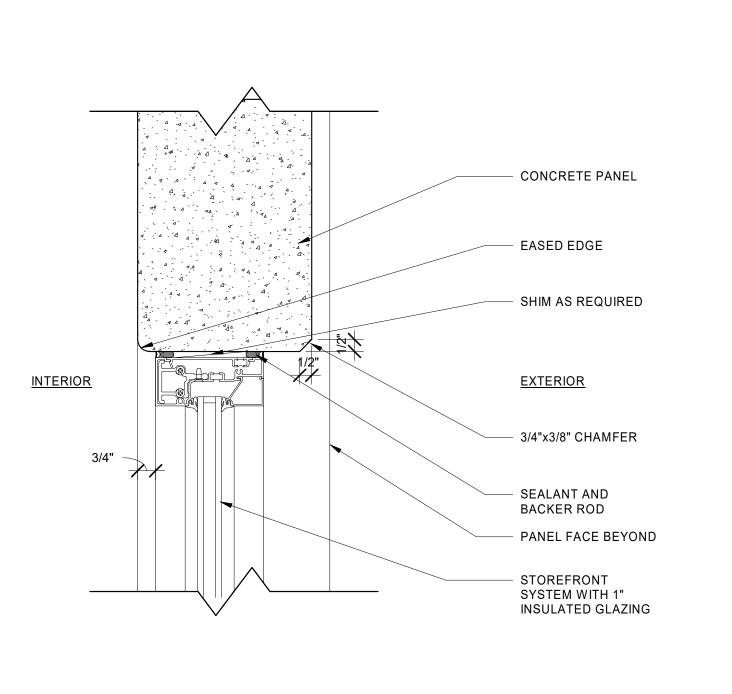
SEALANT AND BACKER ROD,

FIBER CEMENT SIDING,

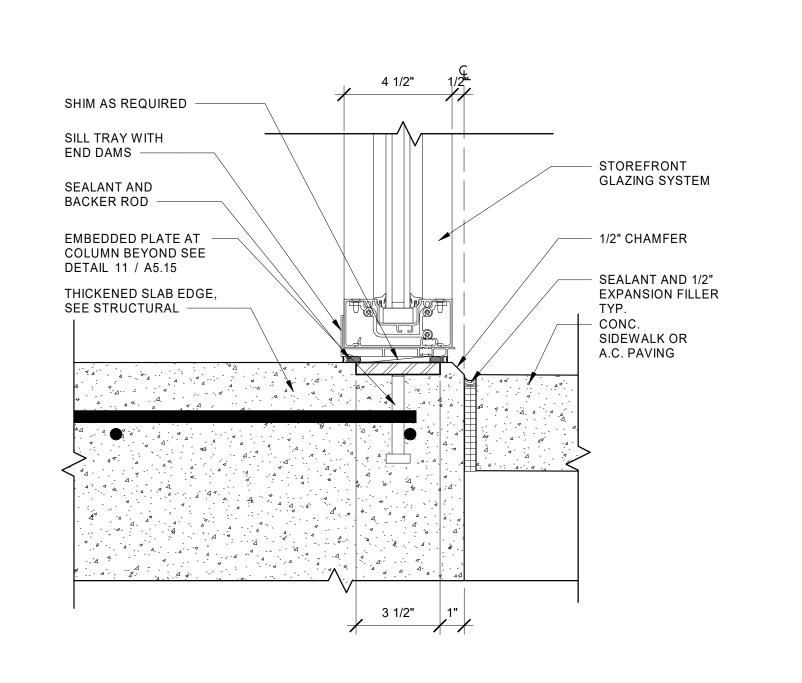
FLUID APPLIED WEATHER

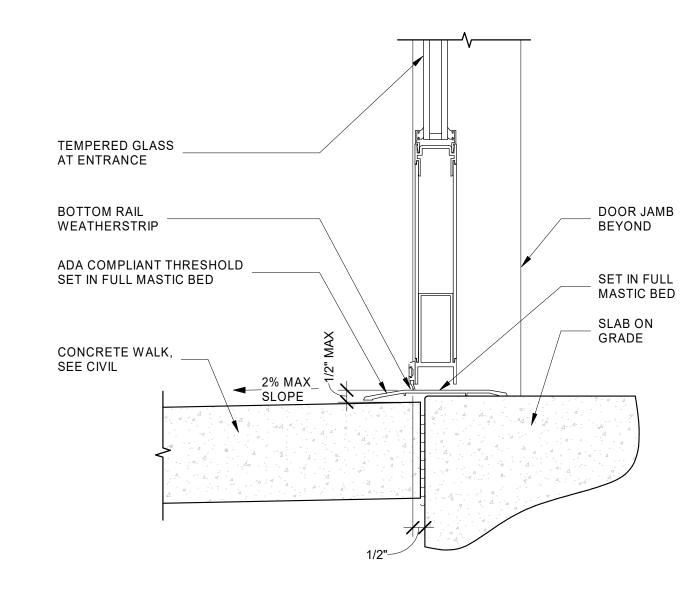
- 5/8" GYPSUM BOARD

\_\_\_\_\_\_



3 WINDOW HEAD





- 6" STUD FRAMING

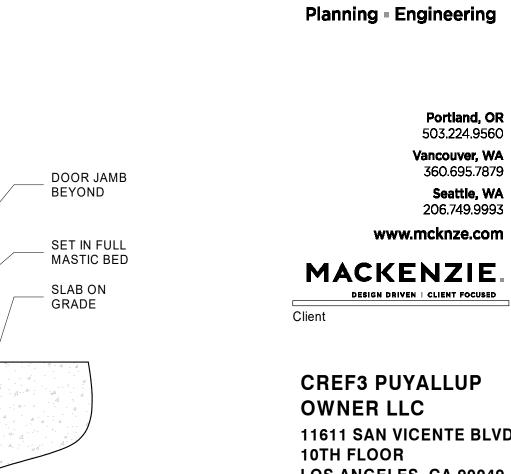
BARRIER

- R-13 BATT INSULATION

- EXTERIOR GYP. SHEATHING

- FLUID APPLIED WEATHER

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



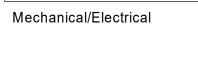


Architecture - Interiors





240 15TH ST SE



© MACKENZIE
2023 ALL RIGHTS RESERVED
THESE DRAWINGS ARE THE PROPERTY OF
MACKENZIE AND ARE NOT TO BE USED
OR REPRODUCED IN ANY MANNER,
WITHOUT PRIOR WRITTEN PERMISSION

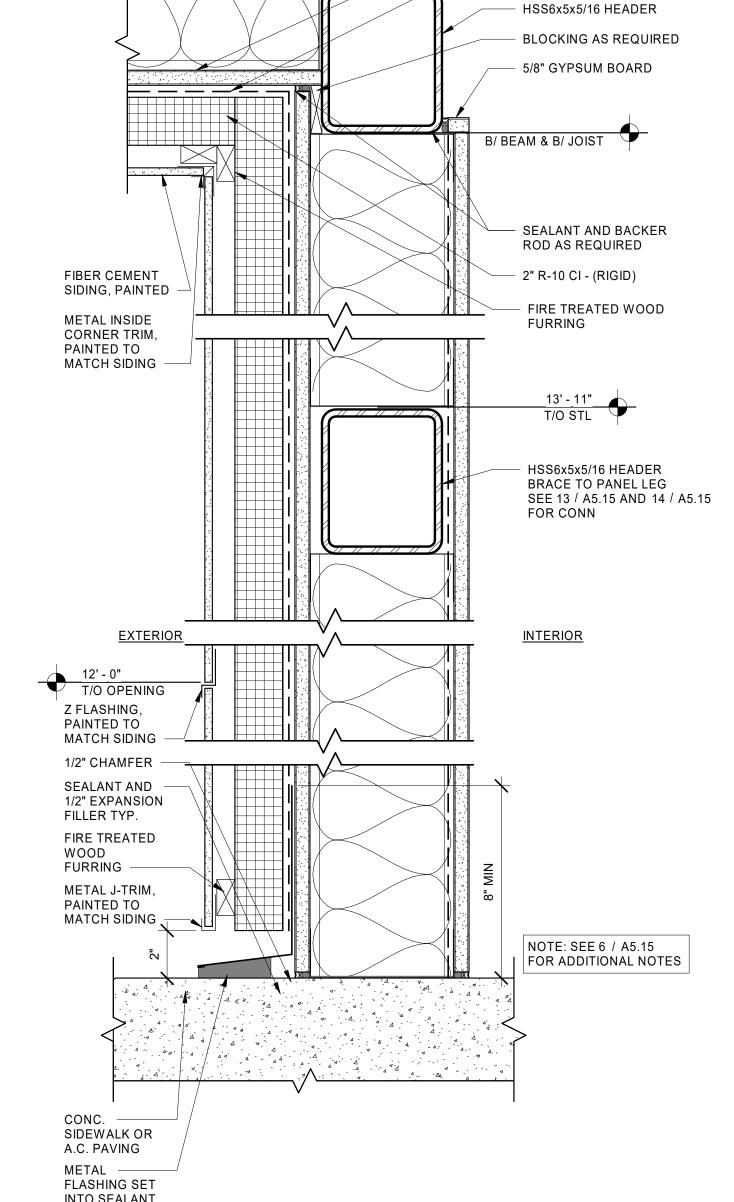
REVISION SCHEDULE

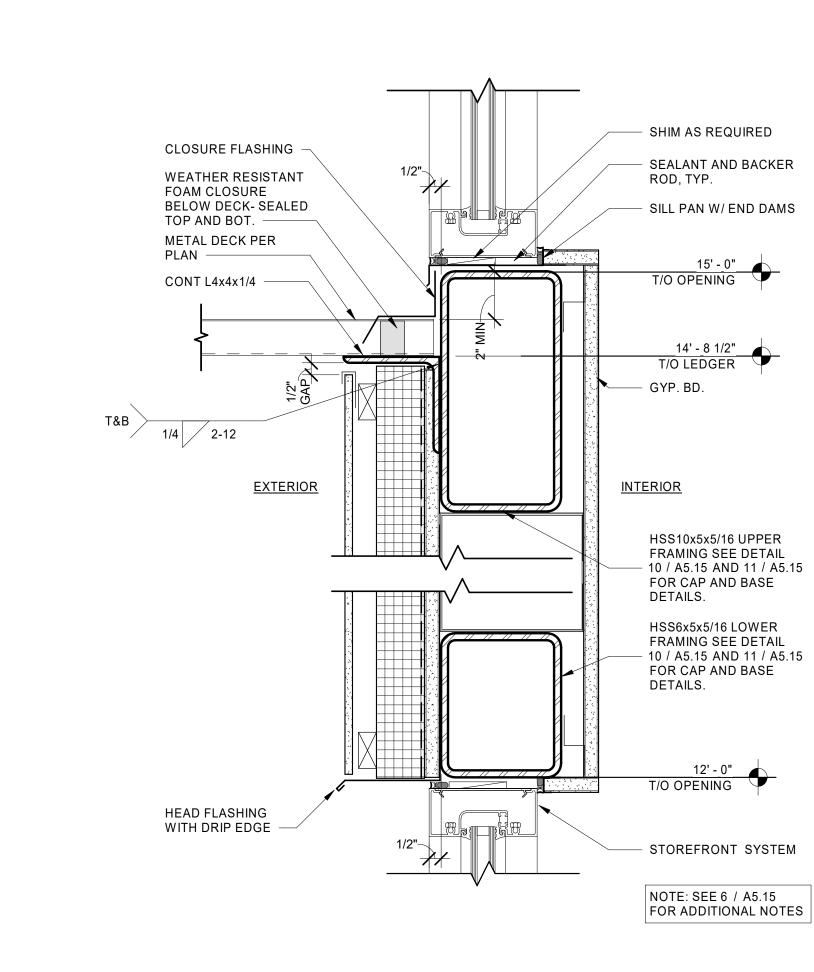
SHEET TITLE:

STOREFRONT

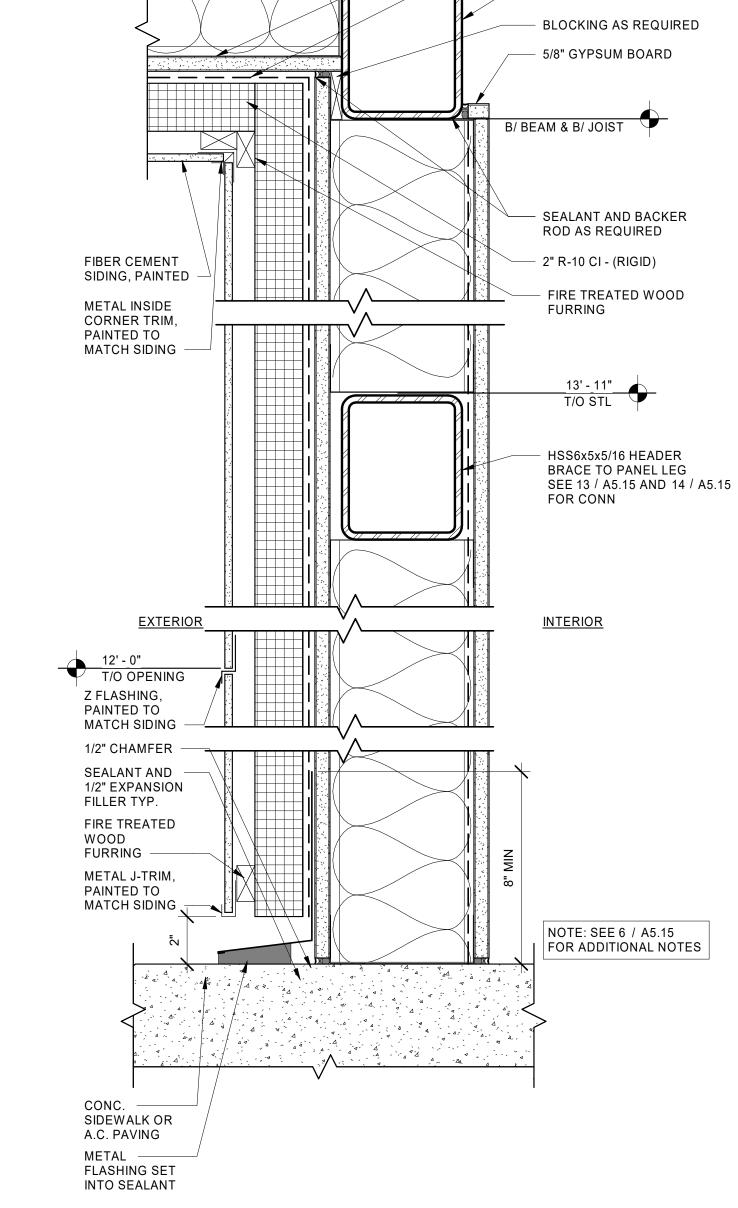
**AND ENTRY** 

**DETAILS** 

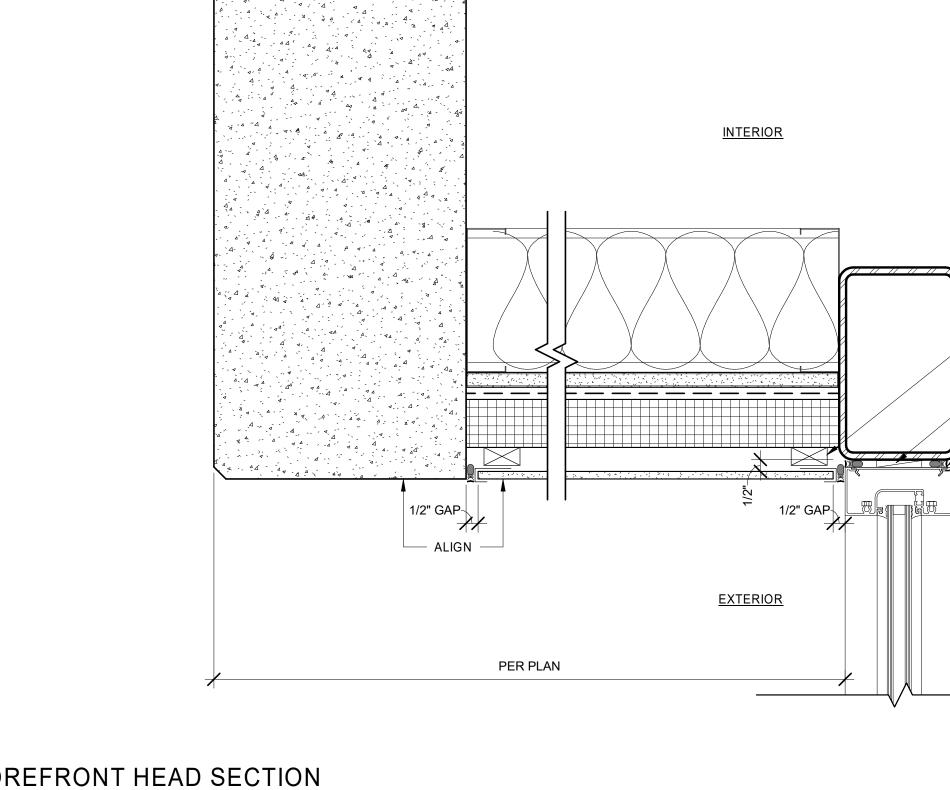


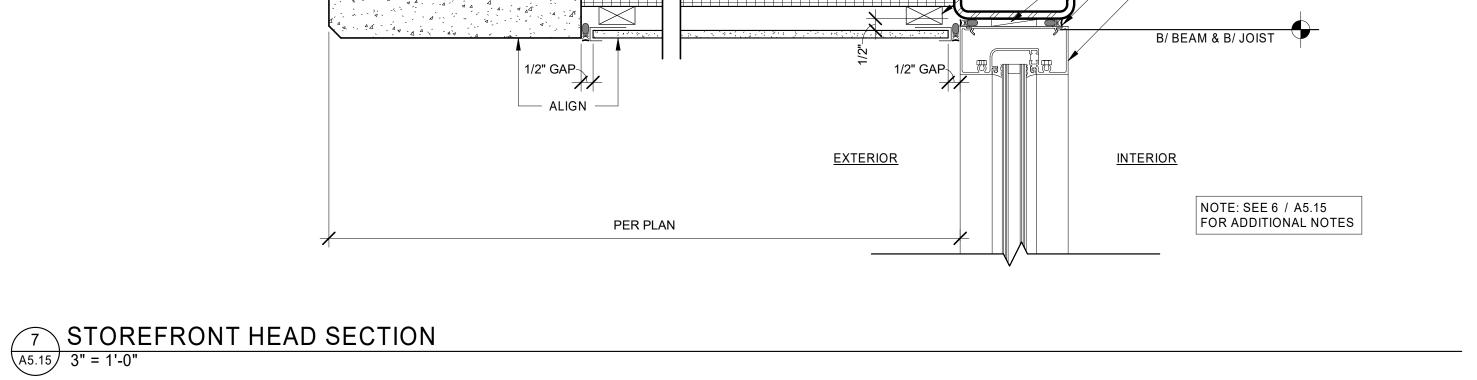


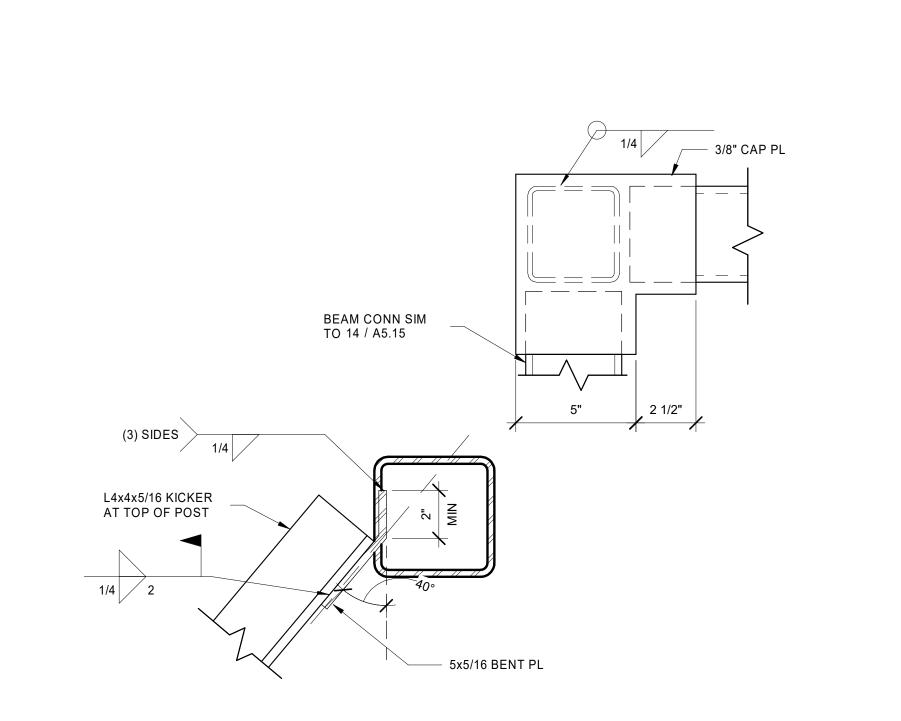
4 STOREFRONT SILL @ ENTRY
A5.15 3" = 1'-0"

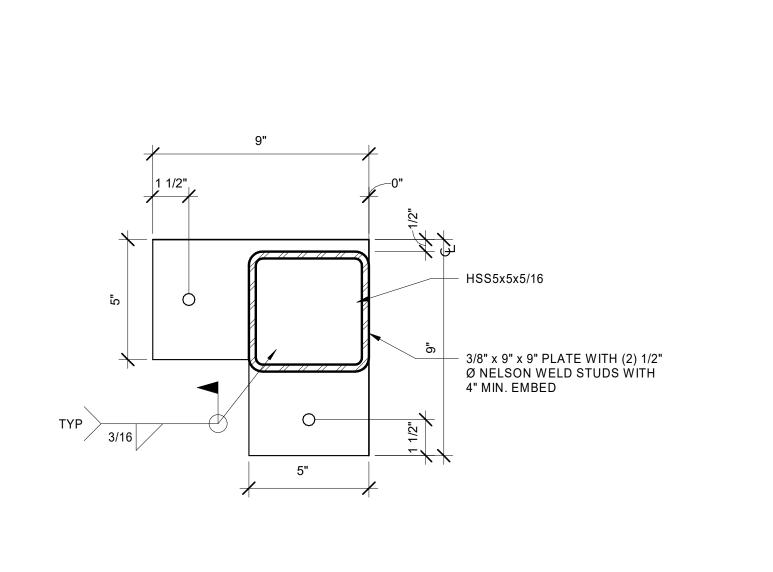






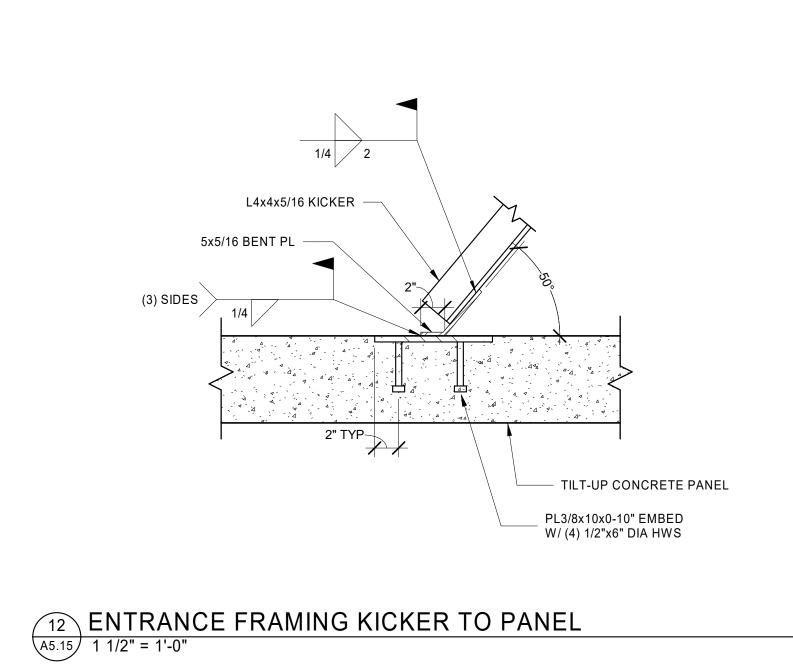






STOREFRONT COLUMN BASE

A5.15 3" = 1'-0"

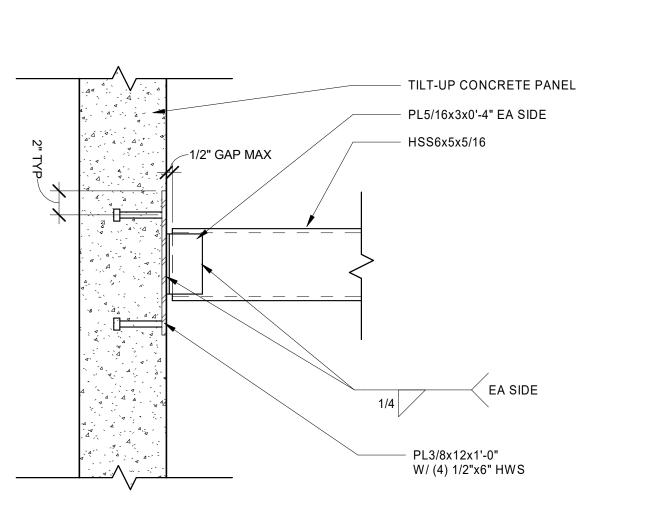


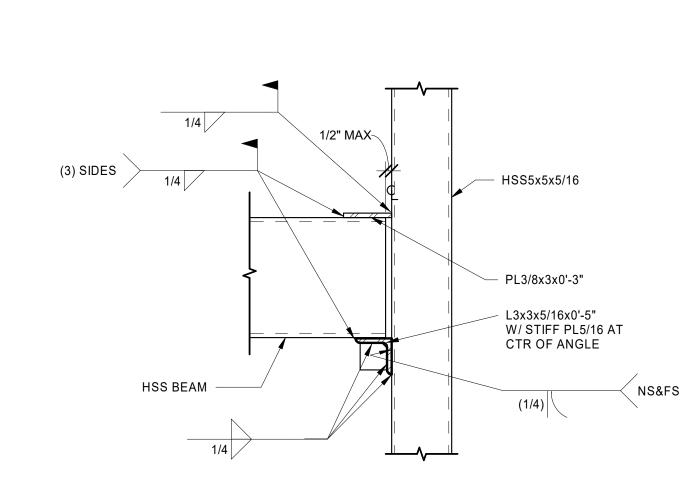
FIRE TREATED WOOD FURRING

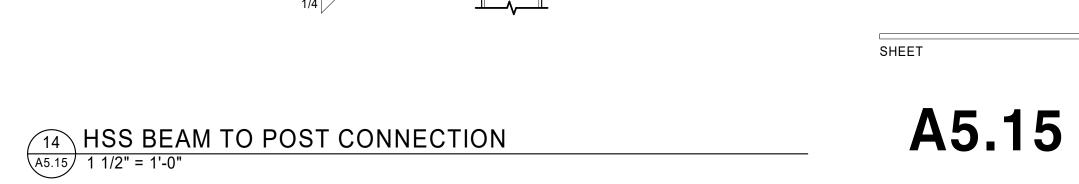
SHIM AS REQUIRED

— STOREFRONT SYSTEM

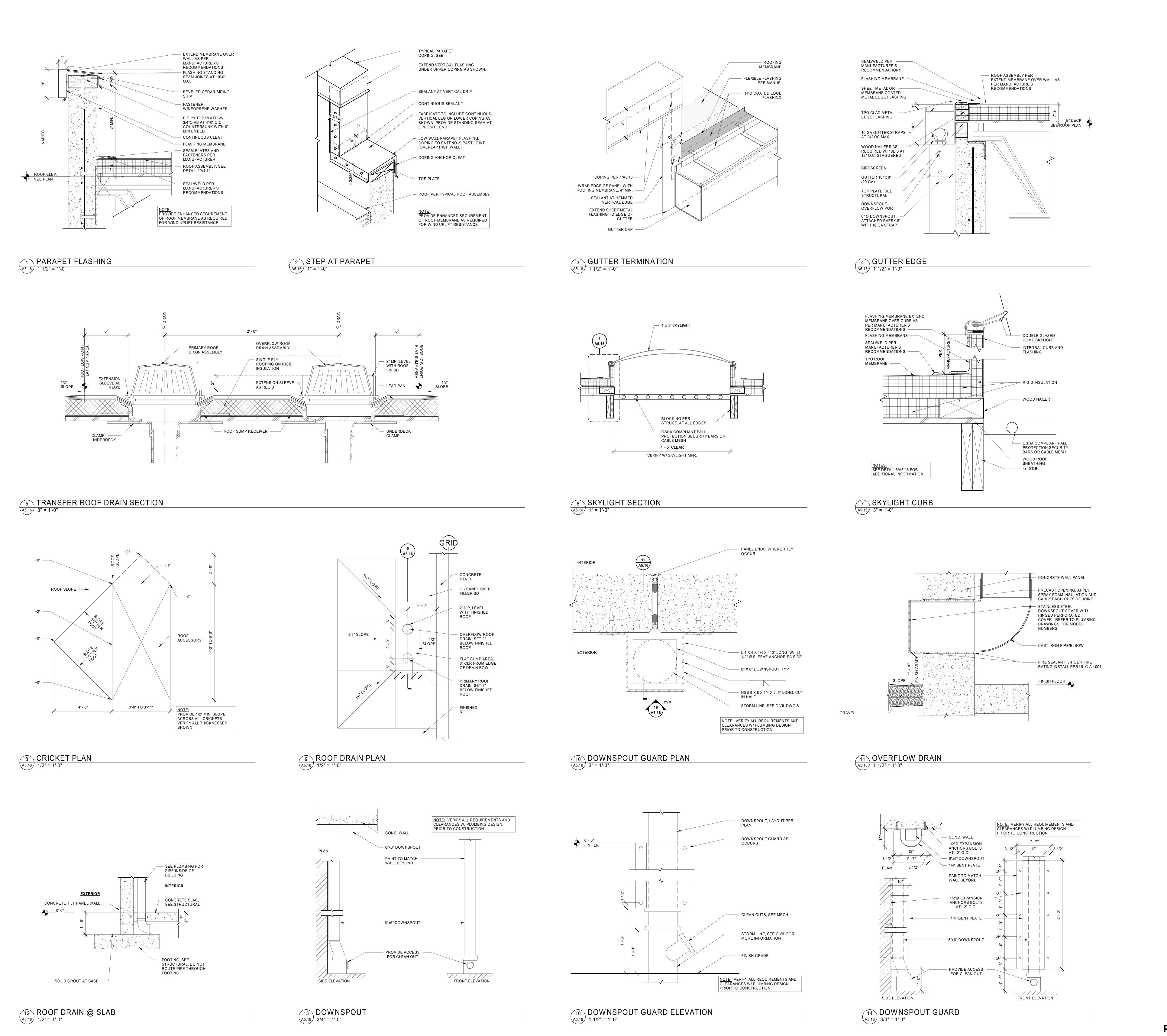
SEALANT AND BACKER ROD,











Planning - Engineering

Portland, OR 503.224.9560 Vancouver, WA 360.695.7879 **Seattle, WA** 206.749.9993 www.mcknze.com

MACKENZIE. DESIGN DRIVEN | CLIENT FOCUSED

**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

© MACKENZIE 2023 ALL RIGHTS RESERVED THESE DRAWINGS ARE THE PROPERTY OF MACKENZIE AND ARE NOT TO BE USED

OR REPRODUCED IN ANY MANNER, WITHOUT PRIOR WRITTEN PERMISSION REVISION SCHEDULE

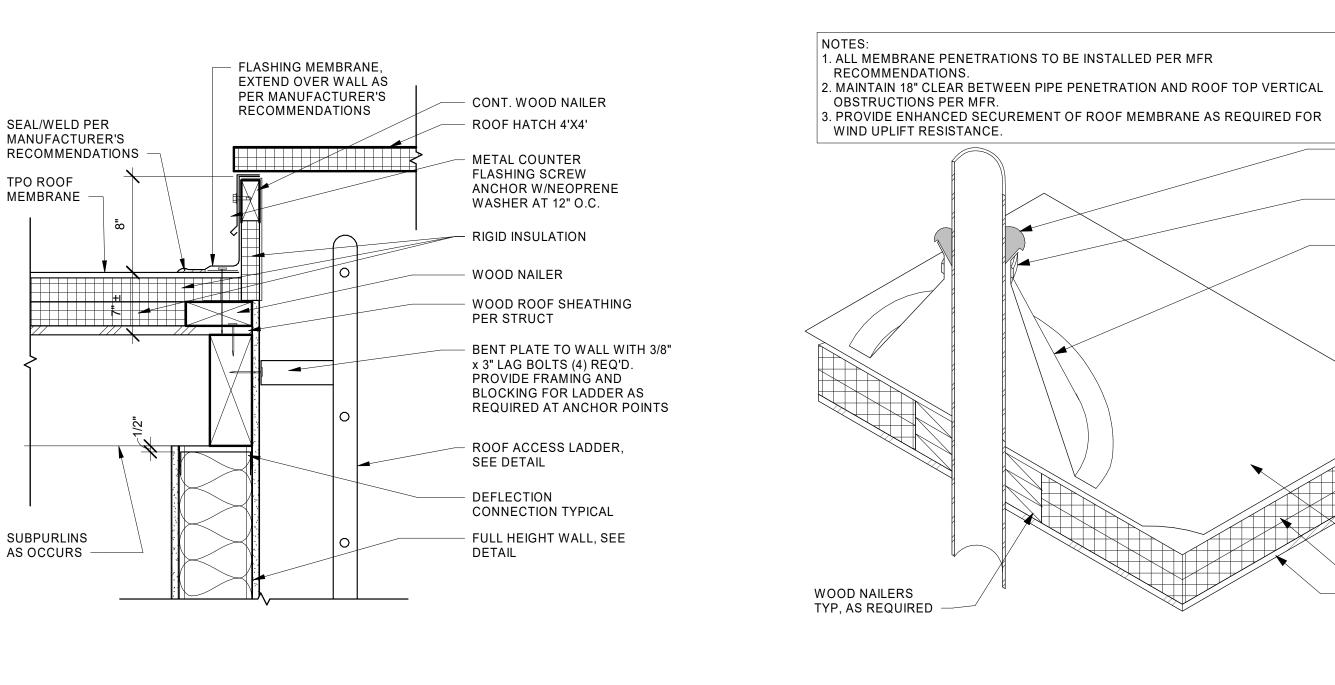
ROOF DETAILS

A5.16

SHEET

JOB NO. **2220290.00** 

**PERMIT SET 6/28/2023** 



1 ROOF HATCH

HEAVY DUTY LATCH —

HEAVY DUTY ARM W/ ¬

6 ROOF ACCESS LADDER
A5.17 1/2" = 1'-0"

HOLD OPEN AND

(2) SIDE HANDLE W/

PROVISION FOR

INSIDE PADLOCK

— 1" INSULATED COVER

INTEGRATED CURB

AND FLASHING

NOTE: CONTRACTOR

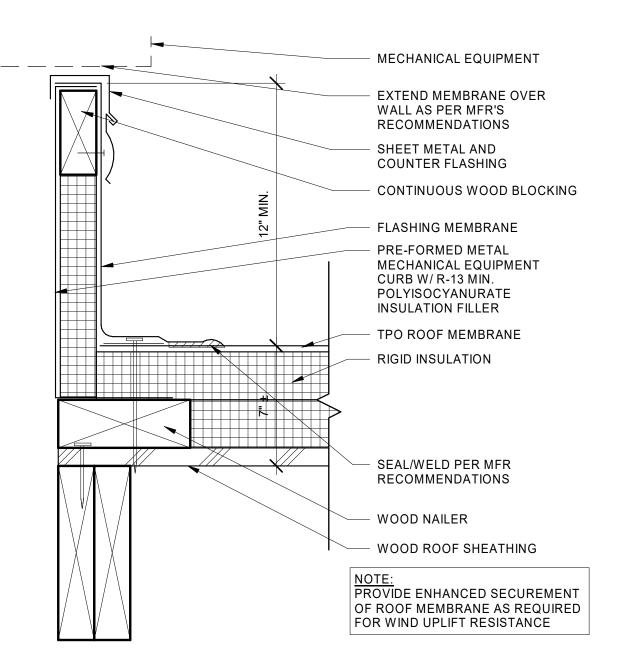
OF ROOF ACCESS LADDER W/LOCATION OF

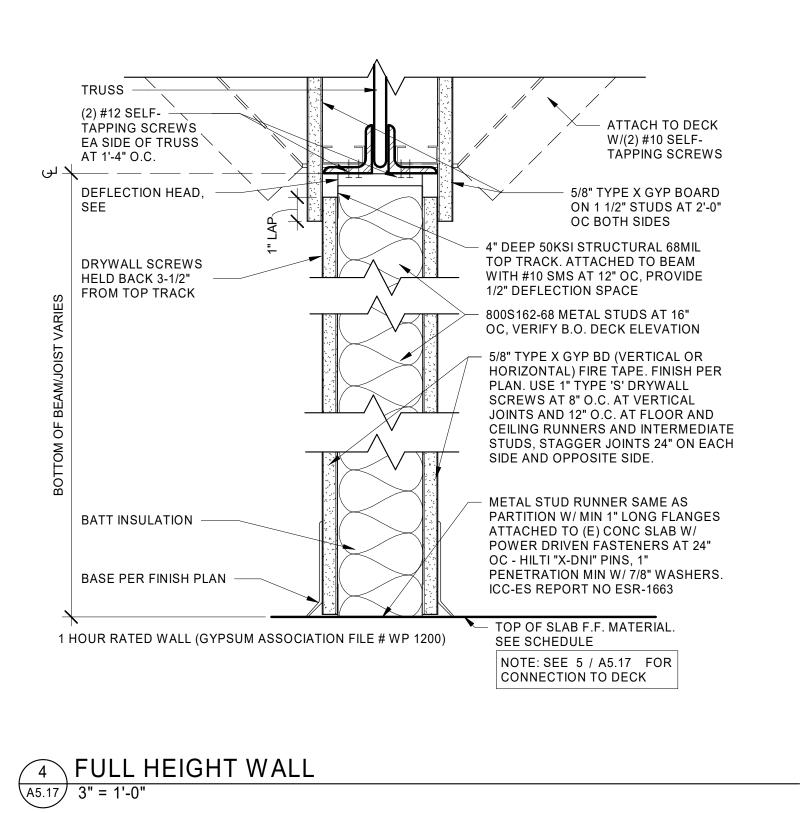
VERIFY OVERALL HEIGHT

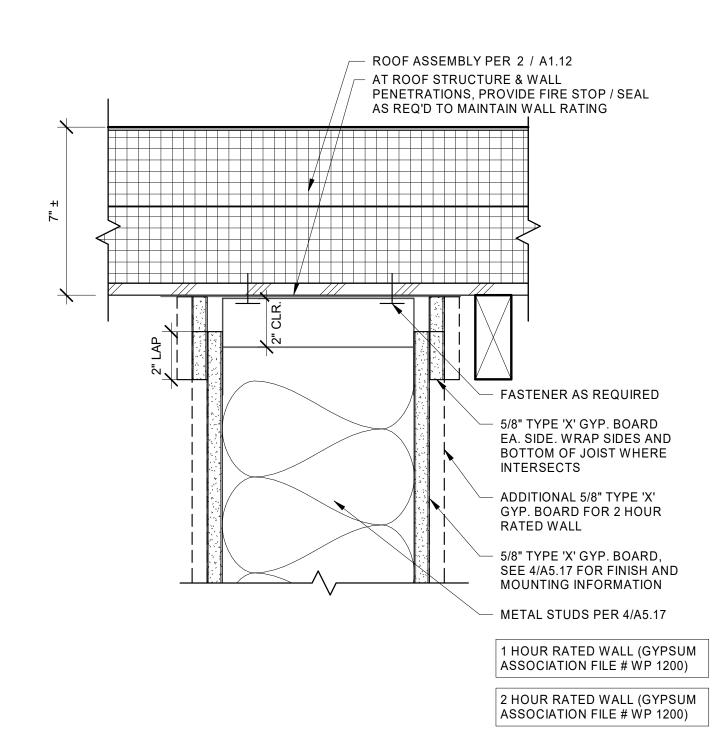
LADDER ON PLANS, FIELD

VERIFICATION AND ROOF

A5.17 1 1/2" = 1'-0"







5 FULL HEIGHT WALL AT WOOD DECK
A5.17 3" = 1'-0"

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

Project

Planning - Engineering

**Portland, OR** 503.224.9560

Vancouver, WA

360.695.7879

**Seattle, WA** 206.749.9993

www.mcknze.com

DESIGN DRIVEN | CLIENT FOCUSED

MACKENZIE.

**CREF3 PUYALLUP** 

11611 SAN VICENTE BLVD.

LOS ANGELES, CA 90049

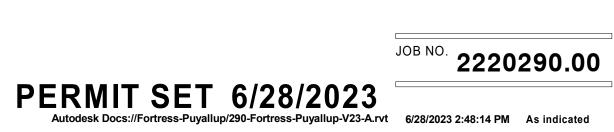
OWNER LLC

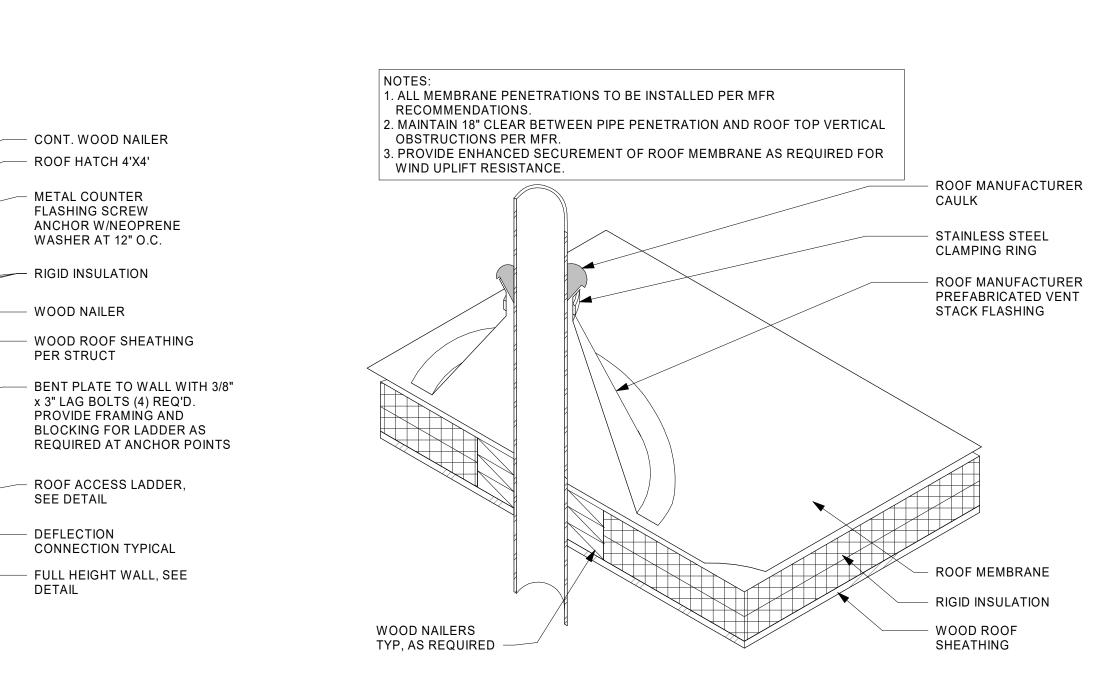
10TH FLOOR

Mechanical/Electrical

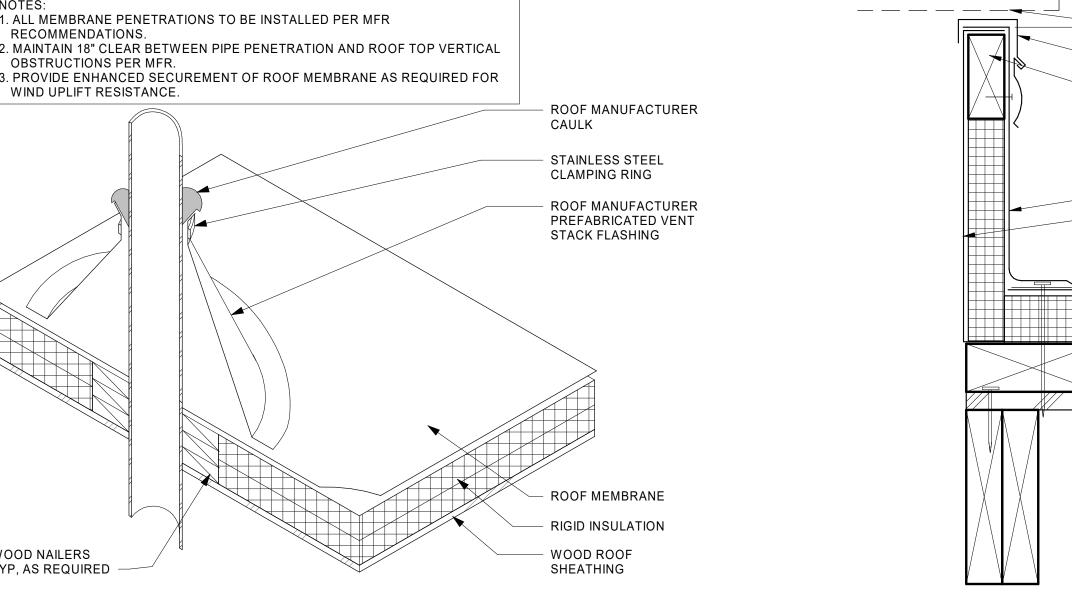
© MACKENZIE 2023 ALL RIGHTS RESERVED THESE DRAWINGS ARE THE PROPERTY OF MACKENZIE AND ARE NOT TO BE USED OR REPRODUCED IN ANY MANNER, WITHOUT PRIOR WRITTEN PERMISSION REVISION SCHEDULE

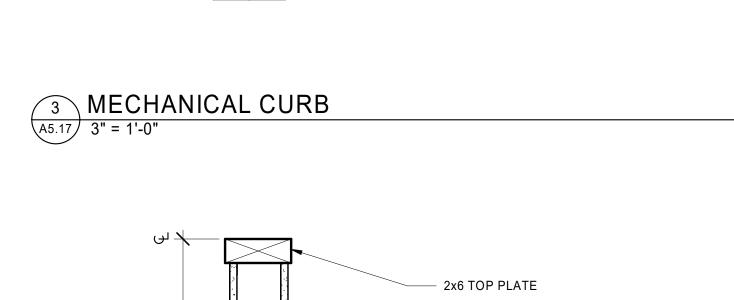
SHEET TITLE:
ROOF DETAILS & INTERIOR **DETAILS** 

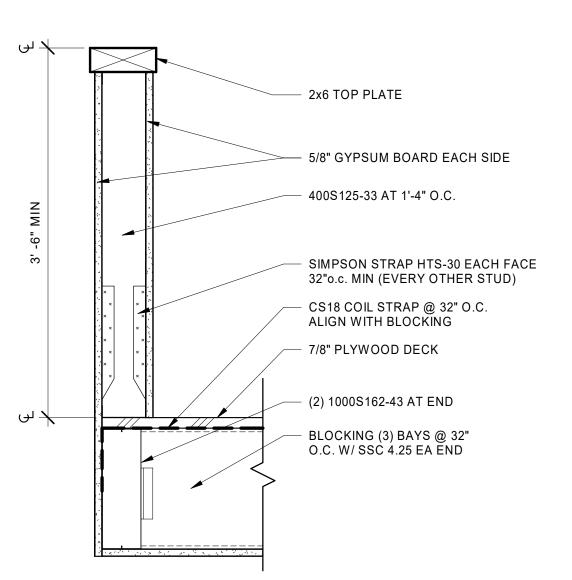


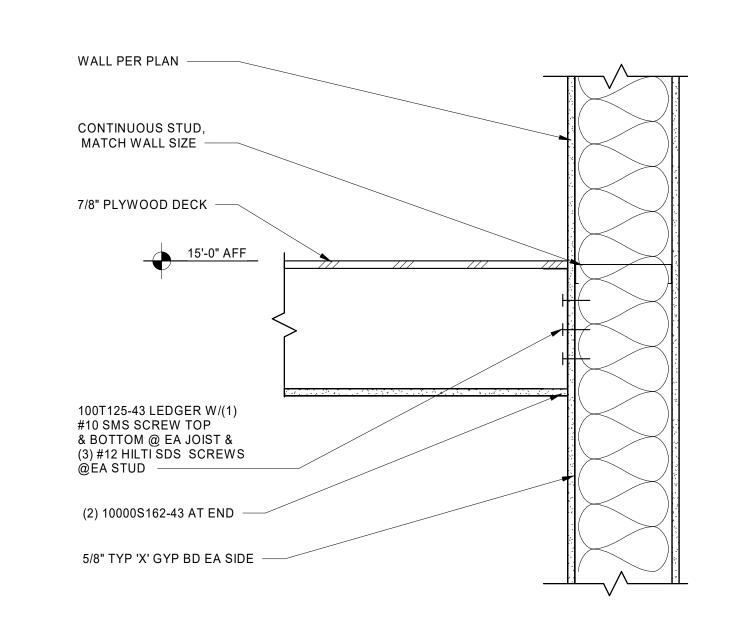


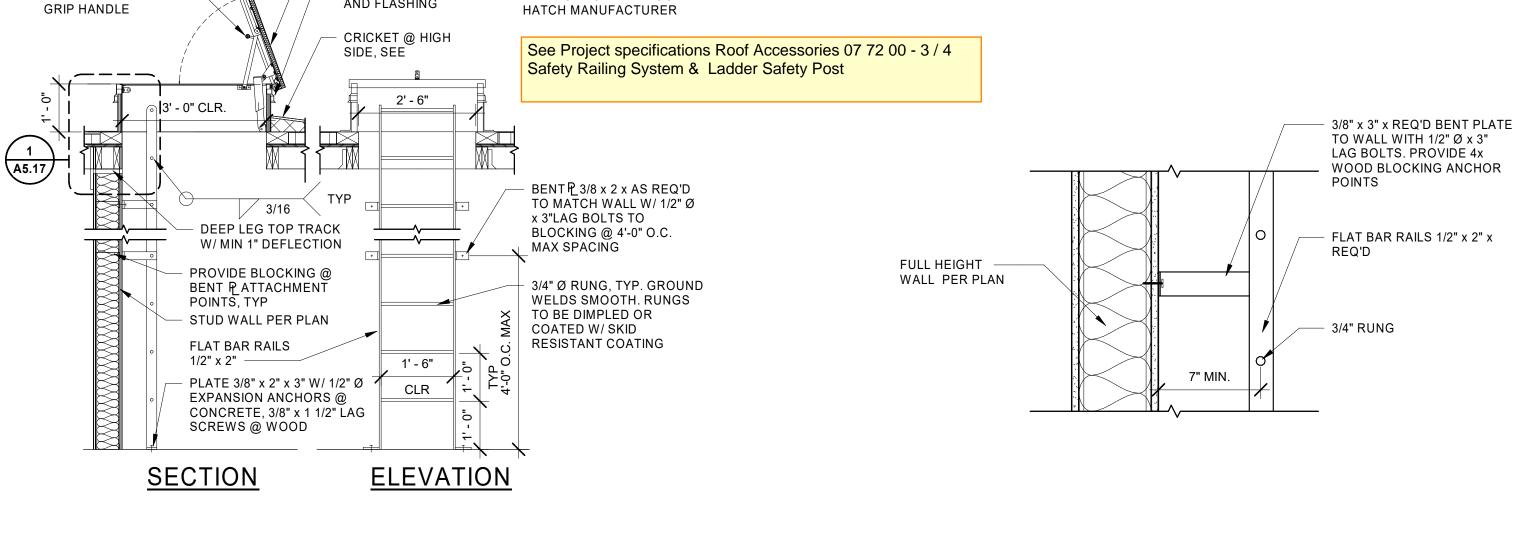
PIPE/CONDUIT FLASHING
A5.17 1 1/2" = 1'-0"









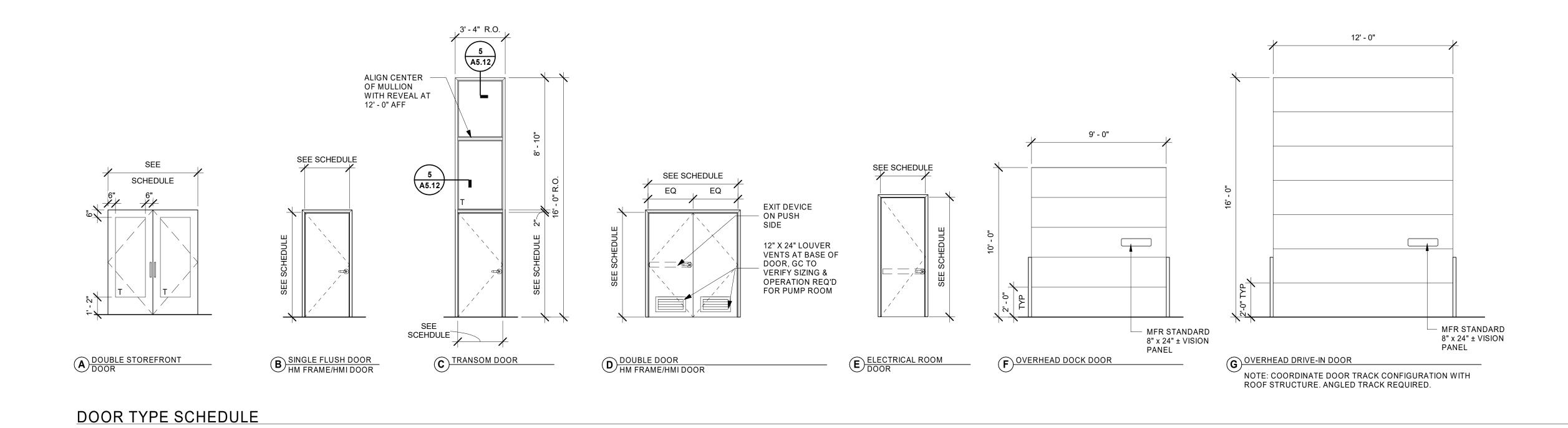






						<u>DC</u>	OOR S	CHED	ULE						
			DO	OR				FRAME			DETAIL		HDWR		
DOOR	WIDTH	HEIGHT	THK	TYPE	MAT'L	FINISH	TYPE	MAT'L	FINISH	HEAD	JAMB	SILL	GROUP	RATING	COMMENT
101	6' - 0"	7' - 0"		Α	AL/GL	PREFIN	SF	AL	FF	_	-	5/A5.15	H1		
102	3' - 0"	7' - 0"	1 3/4"	В	НМ	Р	НМ	STL	Р	4/A5.12	4/A5.12	12/A5.14	H2		
103	6' - 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	( DOO	R SCH	<u>HEDUL</u>	<u>E</u>					
			DO	OR				FRAME			DETAIL		HDWR		
DOOR	WIDTH	HEIGHT	THK	TYPE	MAT'L	FINISH	TYPE	MAT'L	FINISH	HEAD	JAMB	SILL	GROUP	RATING	COMMEN
105	12' - 0"	16' - 0"	1 1/2"	G		PREFIN		STL	GL/FF		3/A5.12	10/A5.14	H4		
106	9' - 0"	10' - 0"	1 1/2"	F	_	PREFIN	<u> </u>	STL	GL/FF		3/A5.12	10/A5.14	H4		
107	9' - 0"	10' - 0"	1 1/2"	F	_	PREFIN		STL	GL/FF		3/A5.12	10/A5.14	H4		
108	9' - 0"	10' - 0"	1 1/2"	F	_	PREFIN		STL	GL/FF		3/A5.12	10/A5.14	H4		
109	9' - 0"	10' - 0"	1 1/2"	F	_	PREFIN		STL	GL/FF		3/A5.12	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
1 THRESHOLD
EXTERIOR PULL
OVERHEAD CLOSER
THRESHOLD
FULL SET WEATHER STRIPPING
SWEEP

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

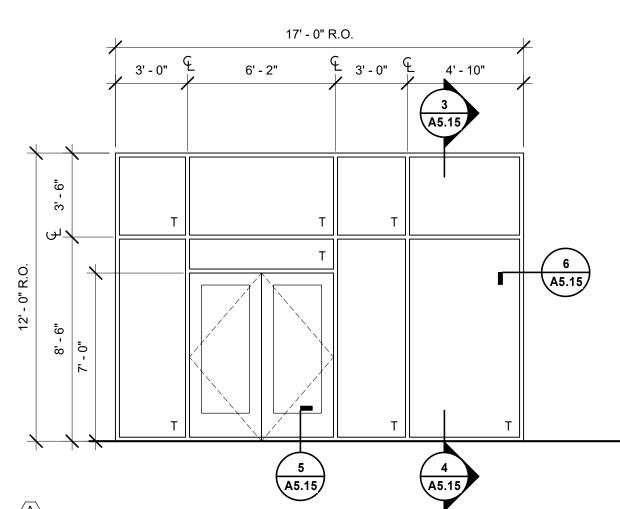
GROUP H4:
OVERHEAD DOCK DOORS
- FULL SET WEATHERSTRIP PACKAGE
PROVISION FOR PADLOCK

1 1/2 PAIR HINGES
1 THRESHOLD
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**

<u>GROUP H3:</u> FIRE SPRINKLER ROOM

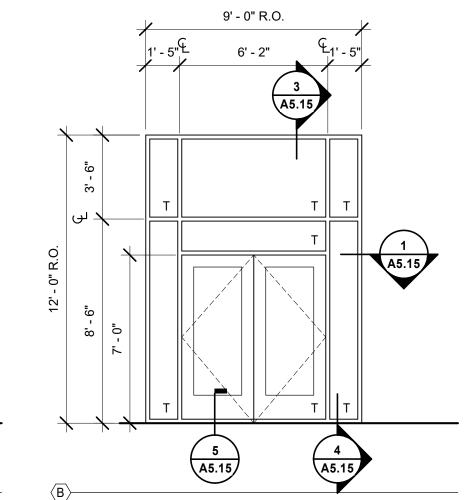
, <u>, , , , , , , , , , , , , , , , , , </u>	2 1 11 1 1 1 1 1 1 1		
AL	ALUMINUM	PW	PREFINISHED WOOD
ELO	ELECTRONICALLY OPERATED	OHI	OVERHEAD DOOR INSULATED
FF	FACTORY FINISH	S	STAINED
FL	FULL LIGHT	SC	SOLID CORE
GLZ/GL	GLAZING	SF	STOREFRONT
HM	HOLLOW METAL	STL	STEEL
HMI	HOLLOW METAL INSULATED	Т	TEMPERED
HMW	HOLLOW METAL WELDED	VP	VISION PANEL
Р	PAINT	W	WOOD

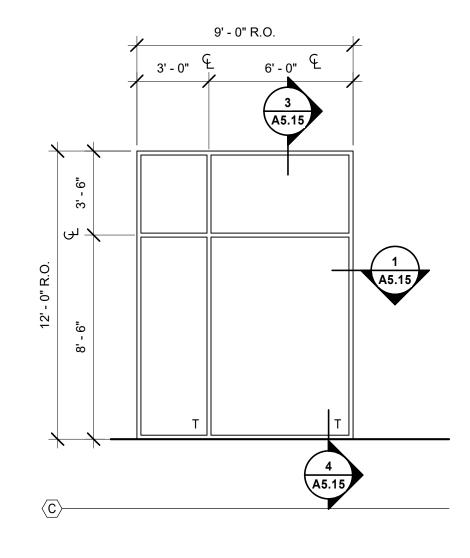


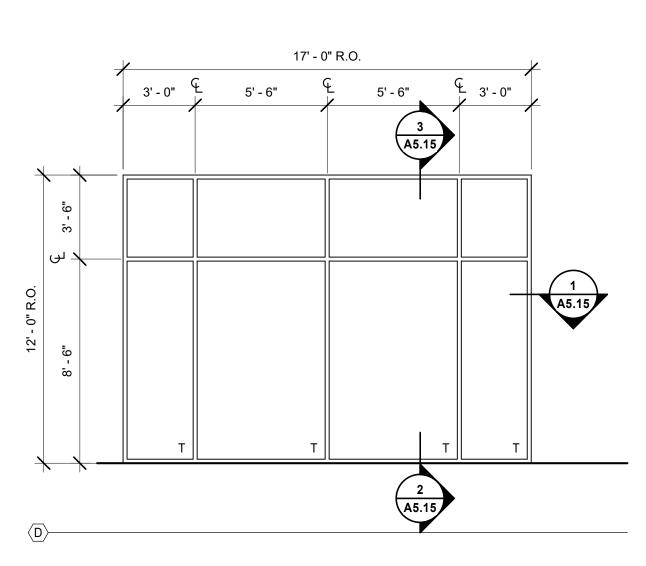
LEGEND

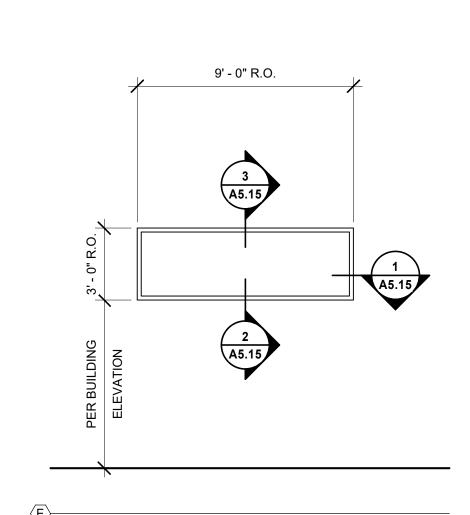
T = TEMPERED GLAZING

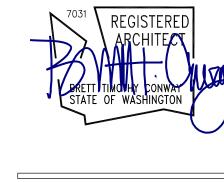
STOREFRONT TYPES











**Portland, OR** 503.224.9560

**Vancouver, WA** 360.695.7879

**Seattle, WA** 206.749.9993

www.mcknze.com

MACKENZIE DESIGN DRIVEN | CLIENT FOCUSED

**CREF3 PUYALLUP** 

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

**OWNER LLC** 

Project

FORTRESS -PUYALLUP

240 15TH ST SE

Mechanical/Electrical

PUYALLUP, WA 98372

MACKENZIE
2023 ALL RIGHTS RESERVED
THESE DRAWINGS ARE THE PROPERTY OF
MACKENZIE AND ARE NOT TO BE USED
OR REPRODUCED IN ANY MANNER,
WITHOUT PRIOR WRITTEN PERMISSION

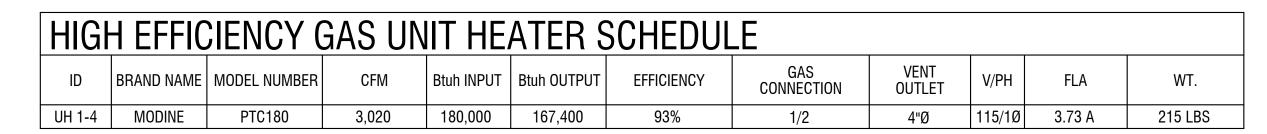
REVISION SCHEDULE

Delta Issued As Issue Date

DOOR AND
WINDOW
SCHEDULE

SHEET

A6.10



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 FSD FIRE AND SMOKE DAMPER GA GAUGE GF GAS FURNACE GRILLE, REGISTER, DIFFUSER HORSEPOWER, HEAT PUMP ID INSIDE DIMENSION INDOOR (SECTION) HEAT PUMP INFRARED HEATER KW KILOWATT THOUSAND BTU PER HOUR

 $\langle M \rangle$ \\_-(T) MOTORIZED CONTROL DAMPER NOISE CRITERIA

NIC NOT IN CONTRACT NOT TO SCALE OPPOSED BLADE DAMPER 00 ON CENTER OD OUTSIDE DIMENSION OR DIAMETER OUTDOOR HEAT PUMP OUTSIDE AIR

OSA OSCI OWNER SUPPLIED CONTR. INSTALLED POC POINT OF CONNECTION RA RETURN AIR RAG RETURN AIR GRILLE

REVOLUTIONS PER MINUTE RTU ROOFTOP UNIT SA SUPPLY AIR SUPPLY GRILLE SP STATIC PRESSURE SIDEWALL SUPPLY GRILLE

TO BE DETERMINED TG TRANSFER GRILLE TYP TYPICAL

VVT

UNIT HEATER UH VARIABLE FREQUENCY DRIVE VTR VENT TO ROOF

VARIABLE VOLUME AND TEMPERATURE

# HVAC LEGEND INLINE EXHAUST FAN(S) ROOFTOP EXHAUST FAN SIDEWALL EXHAUST FAN VAV FAN BOX CEILING EXHAUST FAN **GAS METER** VVT DAMPER THERMOSTAT T-BAR SUPPLY DIFFUSER T-BAR RETURN GRILLE

# HARDLID SUPPLY DIFFUSER HARDLID RETURN GRILLE FIRE DAMPER FD 🛌 FIRE SMOKE DAMPER FSD • **VOLUME DAMPER** SMOKE DETECTOR SD —— FLEXIBLE DUCT SA/RA

ROUND DUCT UP

ROUND DUCT DOWN

DIFFUSER TAG

# **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.

3. 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.

6. 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.

3. 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.

**VENTILATION CALCULATION** 

4. INSTALL NATURAL GAS PIPING.

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.

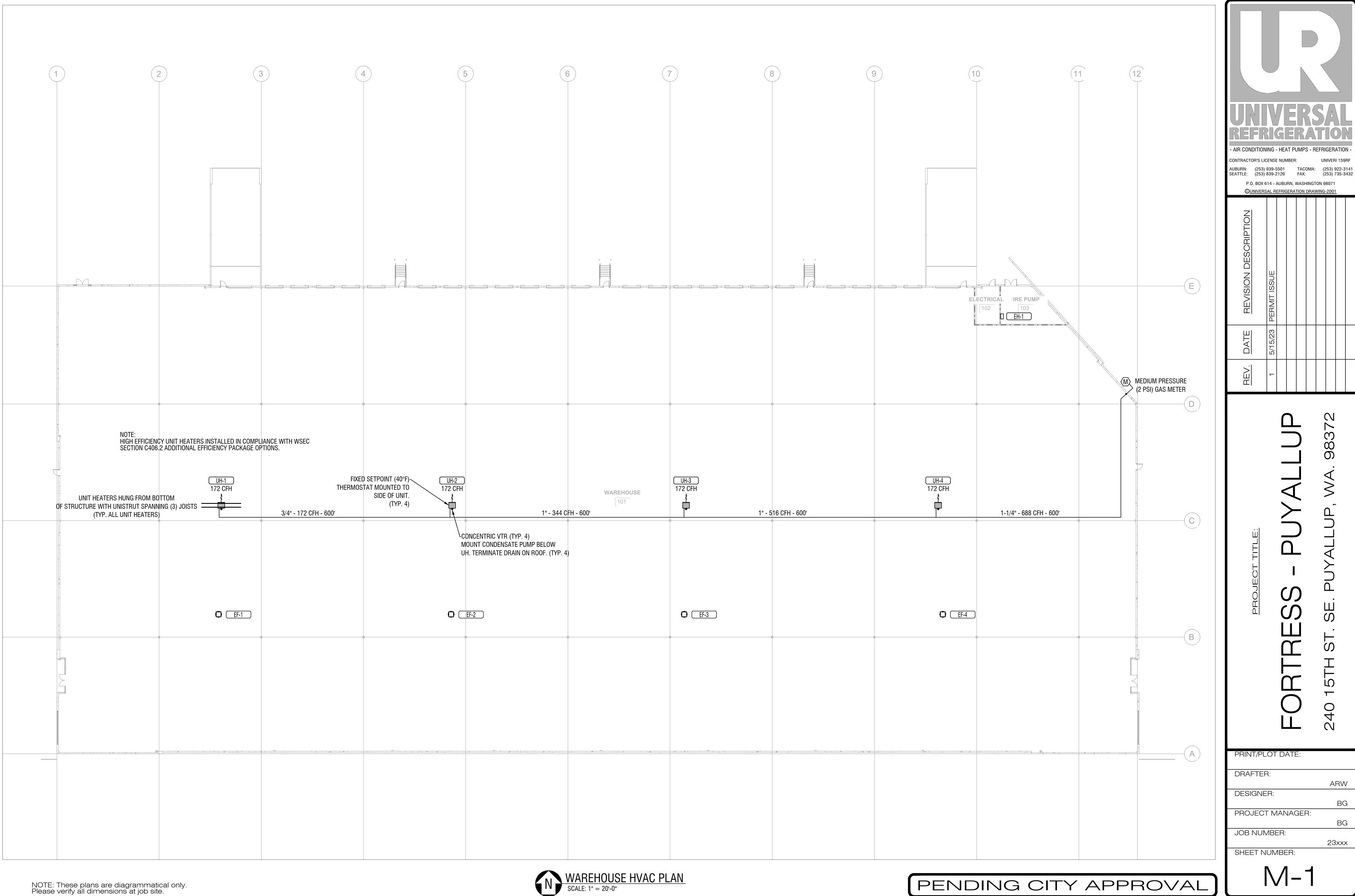
(128,547) SQ FT

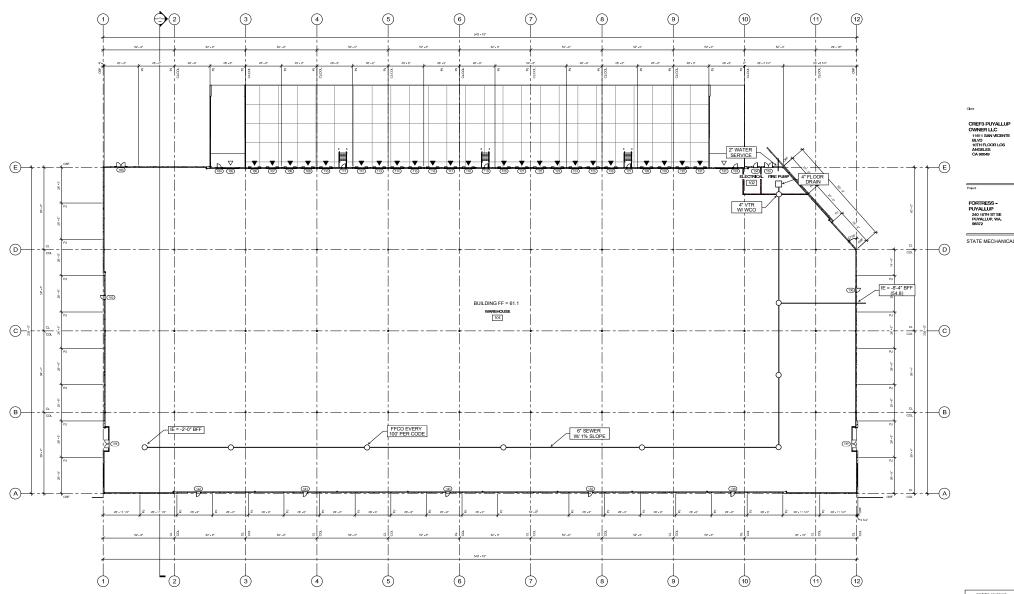
UNI			P N		S <sub>1</sub>			
- AIR CONDITION	ING - I	HEAT PL	JMPS	S - R	EFRI	GER/	ATIO	N -
CONTRACTOR'S LIC							l 159	
AUBURN: (253) 9 SEATTLE: (253) 8	939-55 839-21	01 26	TACC FAX:	OMA:			922-3 735-3	
P.O. BOX 6 ©UNIVERS								
<u> OMIVERIO</u>	7 LE TIET	Indentit		311711	mta	2001	-	
REVISION DESCRIPTION	5/15/23 PERMIT ISSUE							
DATE	5/15/23							
REV.	-							

# $\mathcal{O}$

BG JOB NUMBER: 23xxx SHEET NUMBER:
BG
PROJECT MANAGER:
BG
DESIGNER:
ARW
DRAFTER:
PRINT/PLOT DATE:

PENDING CITY APPROVAL





1 FIRST FLOOR PLAN

WATER AND SEWER PLAN

P-1.0