Project:

SVA GREELEY
Site & Shell Project

1911 59TH Ave.
Greeley, CO 80634

3650 Wadsworth Boulevard
Wheat Ridge, Colorado 80033
Phone: 303-428-4895
Fax: 303-428-5472
Email: info@battistadesign.net
www.battistadesign.net

BATTISTA
DESIGN GROUP

Project Directory

Owner:
SVA Greeley LLC
4144 Timberline Road
Fort Colins, CO 80525
Phone: (970) 217-9544

Architecture:
Battista Design Group, P.C.
3650 Wadsworth Blvd.
Wheat Ridge, CO 80033
Phone: (303) 428-4895
Fax: (303) 428-5472

Civil Engineer:
HCI Engineering
621 Southpark Dr., Suite 1600
Littleton CO, 80120
Phone: (303) 979-3900

Landscape Design:
Valerian, LLC
970 Yuma St., Suite 130
Denver, CO 80204
Phone: (303) 865-4918

Structural Engineer:
Next Level, Inc.
7186 S. Forest Lane
Centennial, CO 80122
Phone: (303) 260-9456

Mechanical Engineer:
Swanson-Levary Engineering
10080 E 112th Way
Henderson, CO 80640
Phone: (720) 737-1733
Fax: (303) 660-5999

Electrical Engineer:
Rossi Engineering, Inc.
5376 South Gibraltar Court
Centennial, CO 80015
Phone: (303) 720-9827

General Contractor:
BVB General Contractors, LLC
1289 S. 4th Ave.
Brighton, CO 80601
Phone: (303) 637-0981
Fax: (303) 659-1887

Public Agencies

Building Department:
City of Greeley
1100 10th Street
Greeley, CO 80631
Phone: (970) 350-9830

Fire Department:
Greeley Fire Department
1155 10th Ave
Greeley, CO 80631
Phone: (970) 350-9500

Electric/Gas:
Xcel Energy
1500 6th Avenue
Greeley, Colorado, 80631
Phone: (800) 895-4999
Builders Call Line
Phone: 1-800-628-2121
Fax: 1-800-628-2521
Hours 7:00 a.m. - 4:00 p.m.
E-mail: BCLCO@xcelenergy.com

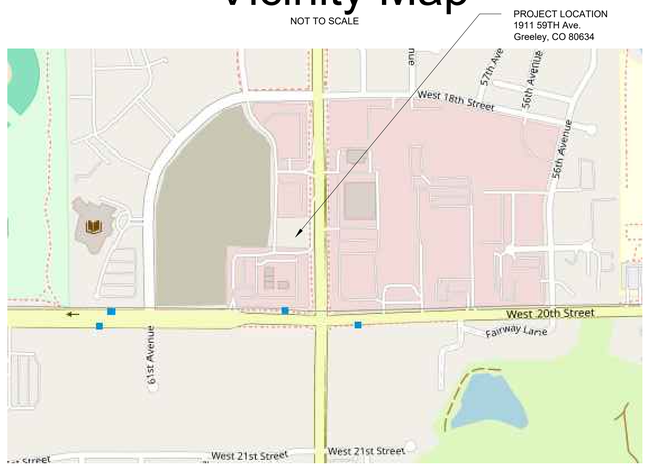
Wastewater:
Greeley Water and Sewer
1001 11th Avenue, 2nd Floor
Greeley, CO 80631
Monday - Friday, 8am - 5pm
Phone: (970) 350-9811

Sheet index

Sheet index Cont.

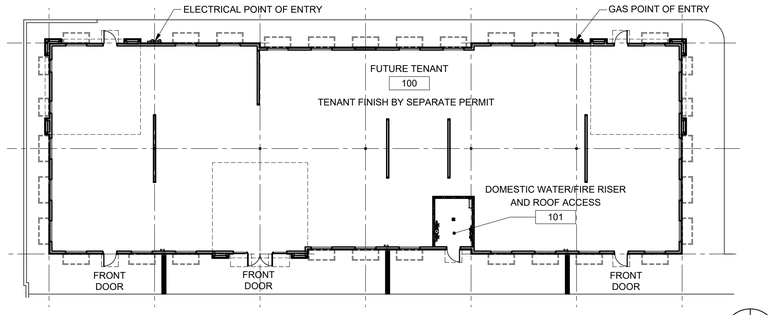
Vicinity Map

NOT TO SCALE



Core/Shell Building Key Plan

Single Story Building Slab on Grade



NORTH

NOTE:
FULL SUBMITTALS/SHOP DRAWINGS REQUIRED FROM ALL TRADES/DISCIPLINES

SUBMIT ALL R.F.I.'S IN WRITING

* ALL TRADES TO CROSS REFERENCE ALL DRAWINGS FOR ITEMS PERTAINING TO THEIR DISCIPLINE OF WORK, FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR(S) FROM THE RESPONSIBILITY OF PROVIDING SUCH AT NO ADDITIONAL COST TO THE OWNER

ONLY COMPLETE SETS OF DRAWINGS TO BE DISTRIBUTED TO SUB-CONTRACTORS DO NOT BREAK APART DRAWING SETS*

DEFERRED SUBMITTALS:

ROOF TRUSS
FIRE ALARM & SPRINKLERS

February, 2025

SVA GREELEY
Site & Shell Project
1911 59th Ave.
Greeley, CO 80634

STATE OF COLORADO
PAUL J. BATTISTA
B-3015
02/12/2025
LICENSED ARCHITECT

sheet — of —

G0.0

ONLINE CERTIFICATIONS DIRECTORY

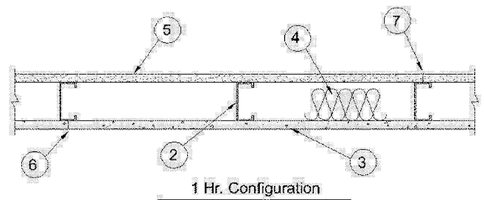
Design No. U404
BXUV.U404
Fire Resistance Ratings - ANSI/UL 263

Design No. U404

May 26, 2017

Nonbearing Wall Rating — 1 and 2 Hr (See Items 3 and 5)

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**



1 Hr. Configuration

1. Steel Floor and Ceiling Runners — (Not Shown) — Channel shaped, 3-1/2 in. wide by 1-1/4 in. deep, fabricated from min 20 MSG (0.0329 in., min bare metal thickness) galvanized steel. Attached to floor and ceiling with steel fasteners spaced 24 in. OC max.
2. Steel Studs — Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, 3-1/2 in. min width, min 1-1/2 in. flanges and 1/4 in. return, spaced a max of 16 in. OC. Studs friction-fit into floor and ceiling runners. Studs to be cut 5/8 to 3/4 in. less than assembly height.
3. Cementitious Backer Units* — 1/2 in. or 5/8 in. thick, applied vertically or horizontally with vertical joints centered over studs. Fastened to studs and runners with corrosion resistant, chamfered, ribbed wafer head screws with a minimum head diameter of .400 inch. For nonbearing systems, fastened to studs and bottom runners with the uppermost screws placed 1/2 in. to 2 in. below the bottom edge of the leg of the top runner. Horizontal joints need not be backed by framing. 1 Hr System - Screws shall be min 1-1/4 in. long and spaced a max of 8 in. OC. All vertical joints staggered one stud cavity from gypsum board vertical joints on the opposite side of studs. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. 2-Hr System - For the base layer in Configuration B, the screws shall be min 1-1/4 in. long and spaced a max of 12 in. OC. For the face layers, screws shall be 1-5/8 in. long and spaced a max of 8 in. OC. All face layer joints offset min 12 in. from underlying base layer joints. Joints in either layer need not be staggered from joints on the opposite side of the wall.

UNITED STATES GYPSUM CO — Type DCB

4. **Batts and Blankets* —** Min 3 in. thick mineral wool insulation batts, friction-fitted between studs .

INDUSTRIAL INSULATION GROUP L L C — Type SAFB

JOHNS MANVILLE — Type SAFB

ROXUL INC — Type AFB

THERMAFIBER INC — Type SAFB

5. **Gypsum Board* —** 5/8 in. thick, with square or tapered edges, applied vertically or horizontally with vertical joints centered over studs. Horizontal joints need not be backed by framing. Fastened with Type S-12 screws. **1-Hr System** - For vertical application, fastened to studs and runners with 1 in. long screws spaced max 8 in. OC at vertical edges and spaced max 12 in. OC in the field. For horizontal application, fastened to studs and runners with 1 in. long screws spaced max 8 in. OC. Vertical joints staggered one stud cavity from cement board vertical joints on opposite side of studs. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. **2-Hr System** - Base layer with an overlying gypsum board face layer, fastened with 1 in. long screws spaced max 16 in. OC to studs and runners. Base layer with an overlying cement board face layer, fastened with 1 in. long screws spaced max 12 in. OC to studs and runners. Face layers fastened with 1-5/8 in. long screws spaced max 16 in. OC to studs and runners with screws offset 8 in. from face layer screws. Face layer joints offset min 12 in. from base layer joints. Joints in either layer need not be staggered from joints on the opposite side of the wall. When used in widths other than 48 in., gypsum panels to be installed horizontally.

CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, SGX, ULX, USGX, WRC or WRX (Joint tape and compound, Items 6 and 7, optional for use with Type USGX).

UNITED STATES GYPSUM CO — Type AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, ULX, WRC, WRX, USGX (Joint tape and compound, Items 6 and 7, optional for use with Type USGX).

USG BORAL ZAWAWI DRYWALL L L C SFZ — Types C, SCX

USG MEXICO S A DE C V — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX (Joint tape and compound, Items 6 and 7, optional for use with Type USGX).

5A. **Gypsum Board* —** (As an alternate to Item 5 may be used as the base layer on one or both sides of wall, For direct attachment only) - Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.

RAY-BAR ENGINEERING CORP — Type RB-LBG

5B. **Gypsum Board* —** (As an alternate to Item 5 may be used as the base layer on one or both sides of wall, For direct attachment only). Nominal 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 (or #6 by 1-1/4 in. long bugle head fine driller) steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.

NEW ENGLAND LEAD BURNING CO INC, DBA NELCO — Nelco

5C. **Gypsum Board* —** (As an alternate to Item 5) For Direct Application to Studs Only- For use as the base layer or as the face layer. Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-5/8 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in OC in the field when applied as the base layer. When applied as the face layer screw length to be increased to 2-1/2 in. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 10 ft long with a max thickness of 0.140 in. placed on the face of studs and attached to the stud with two 1 in. long Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, max 5/16 in. diam by max 0.140 in. thick. compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D". Fasteners for face layer gypsum panels (Item 5) when installed over lead backed board to be min 2-1/2 in.

MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum

5D. **Gypsum Board* —** ((As an alternate to Items 5 may be used as the base layer on one or both sides of wall, For direct attachment only)) For Direct Application to Studs Only- Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Fasteners for face layer gypsum panels (Item 5) when installed over lead backed board to be min 2-1/2 in. Type S-12 bugle head steel.

RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

6. **Joints —** Covered with glass fiber mesh tape and latex modified Portland cement mortar or basecoat, or Type I organic adhesive.

7. **Joints —** When tapered edge gypsum board is used, face layer joints covered with joint compound and paper tape. As an alternate, gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard with joints reinforced. When square-edge gypsum board is used, treatment of joints is optional.

8. **Vapor Retarder, Water Barrier or Weather Resistive Barrier —** (Optional — Not shown) — As required.

9. **Lead Batten Strips —** (Not Shown, For use With Item 5A) - Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 5A) and optional at remaining stud locations. Required behind vertical joints.

9A. **Lead Batten Strips —** (Not Shown, for use with Item 5C) Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of .0140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 5) and optional at remaining stud locations.

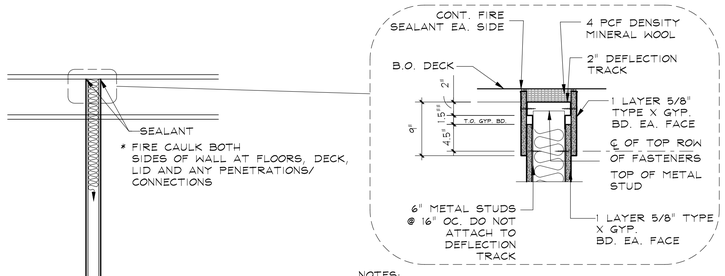
10. **Lead Discs or Tabs —** (Not Shown, For use With Item 5A) - Used in lieu of or in addition to the lead batten strips (Item 9) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 5A) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

10A. **Lead Discs —** (Not Shown, for use with Item 5C) Max 5/16 in. diam by max 0.140 in. thick lead discs compression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.5% meeting the Federal Specification QQ-L-201f, Grades "B, C or D".

11. **Lead Batten Strips —** (Not Shown, For Use With Item 5B) Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.142 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 5B) and optional at remaining stud locations.

12. **Lead Tabs —** (Not Shown, For Use With Item 5B) 2 in. wide, 5 in. long with a max thickness of 0.142 in. Tabs friction-fit around front face of stud, the stud folded back flange, and the back face of the stud. Tabs required at each location where a screw (that secures the gypsum boards, Item 5B) will penetrate the steel stud. Lead tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead tabs may be held in place with standard adhesive tape if necessary.

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**



1 UL-U404 WALLS
1 HR. CONFIGURATION

NOTES:

-20 GA FLOOR RUNNERS ATTACHED W/ STEEL FASTENERS AT 24" O.C. MAX

-20 GA STEEL STUDS 16"O.C. MAX ATTACHED TO FLOOR RUNNERS W/3/8" L. TYPE S-12 STEEL SCREWS ON BOTH SIDES

-MIN. 3" THICK MINERAL WOOL INSULATION FRICTION FITTED BTWN STUDS

-VERT. APPLICATION, 5/8" FIRE RATED GYP BOTH SIDES WITH 1" L. TYPE S-12 SCREWS AT 8" O.C. ON VERT EDGES AND 12" O.C. MAX ELSWHERE

-HORIZ. APPLICATION, 5/8" FIRE RATED GYP BOTH SIDES WITH 1" L. TYPE S-12 SCREWS AT 8" O.C. MAX

-JOINTS, GLASS FIBER MESH TAPE AND LATEX MODIFIED PORTLAND CEMENT MORTAR OR BASECOAT

No	Revision / Submissions	Date

3650 Wadsworth Boulevard
Wheat Ridge, Colorado 80033
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BATTISTA DESIGN GROUP

SVA GREELEY
Shell Building
1911 59th AVENUE
GREELEY, CO 80634

WALL TYPES

STATE OF COLORADO
PAUL J. BATTISTA
B-3015
02/12/2025
LICENSED ARCHITECT

Designed:	Project Number: SVA2025
Drawn:	Scale: As Shown
Checked:	Drawing Number: G0.1
Reviewed:	
Date: Feb., 2025	of

H1	WALL TYPES
N.T.S.	RE:

GRAPHIC SYMBOLS

SYM	DESCRIPTION
A / A	COLUMN GRID LINE
A / A	COLUMN GRID LINE EXISTING
A1 / A501	WALL SECTION REFERENCE SECTION NUMBER DRAWING ON WHICH SECTION IS SHOWN
A1 / A301	EXTERIOR ELEVATION REFERENCE ELEVATION NUMBER DRAWING ON WHICH ELEV IS SHOWN
A1 / A201 · A1 / A201	BUILDING SECTION REFERENCE SECTION NUMBER DRAWING ON WHICH SECTION IS SHOWN
A1 / A601	DETAIL SECTION REFERENCE DETAIL NUMBER DRAWING ON WHICH DETAIL IS SHOWN
A1 / A102	DETAIL PLAN REFERENCE DETAIL NUMBER DRAWING ON WHICH DETAIL IS SHOWN
A201 A1	INTERIOR ELEVATION REFERENCE ELEVATION NUMBER DRAWING ON WHICH ELEV. IS SHOWN
101	DOOR NUMBER
LOBBY 101	ROOM NAME ROOM NUMBER
	CENTER LINE
MATCH LINE	MATCH LINE
EL. XXX'-X"	VERTICAL ELEVATION MARK
A1 NORTH ELEVATION 1/4" = 1'-0"	DRAWING TITLE/ REFERENCE
NORTH	NORTH ARROW
1	REVISION MARK
1	SPECIFIC PLAN NOTE OR ACCESSORY TAG
A101	SHEET NUMBER
W1	WINDOW TYPE, BORROWED LIGHT TYPE OR LOUVER TYPE TAG
1	WALL OR PARTITION TYPE
	ONE HOUR RATED WALL / OPENINGS
	TWO HOUR RATED WALL / OPENINGS

MATERIALS

SYM	DESCRIPTION
	CONCRETE
	PRECAST CONCRETE (LARGE SCALE)
	STEEL
	WOOD FRAMING
	PLYWOOD
	RIGID INSULATION
	BATT INSULATION
	METAL STUD WALL
	GYPSUM WALLBOARD
	ACOUSTICAL TILE
	BRICK
	CONCRETE MASONRY UNITS

ABBREVIATIONS

A		G		S	
AB	ANCHOR BOLT	GA	GAGE	S	SOUTH
ACT	ACOUSTICAL TILE	GAL	GALLONS	SALV	SALVAGE
ADJ	ADJACENT/ ADJUSTABLE	GALV	GALVANIZED	SAN	SANITARY
AFF	ABOVE FINISHED FLOOR	GYP BD	GYPSUM BOARD	SB	SPLASH BLOCK
AFG	ABOVE FINISHED GRADE	GYP SHTG	GYPSUM SHEATHING BOARD.	SCHD	SOLID CORE WOOD DOOR
AHU	AIR HANDLING UNIT	GC	GENERAL CONTRACTOR	SCHED	SCHEDULE/SCHEDULED
ALUM	ALUMINUM	GEN	GENERAL/GENERATOR	SCHEM	SCHEMATIC
ANOD	ANODIZED	GI	GALVANIZED IRON	SEC	SECOND
ALT	ALTERNATE NO.	GL	GLASS	SECT	SECTION
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	GLZ	GLAZING	SF	SQUARE FOOT/FEET
APPROX	APPROXIMATELY	GND	GROUND	SGL	SINGLE
APVD	APPROVED	H		SHT	SHEET
ARCH	ARCHITECT	HC	HANDICAPPED ACCESSIBLE / HOLLOW CORE	SHT MTL FLASH	SHEET METAL FLASHING
ASSBY	ASSEMBLY	HD	HEAD	SHTHG	SHEATHING
AUTO	AUTOMATIC/ AUTOMATION	HDW	HARDWARE	SIM	SIMILAR
AVG	AVERAGE	HDWD	HARDWOOD	SLNT	SEALANT
AWI	AMERICAN WOODWORKING INSTITUTE	HM	HOLLOW METAL	SM	SURFACE MOUNTED/SMALL
		HT	HEIGHT	SM	SHEET METAL
ANT	ACOUSTICAL WALL TREATMENT	HORIZ	HORIZONTAL	SMACNA	SHEET METAL AIR CONDITIONING CONTRACTOR'S NATIONAL ASSOCIATION
B		HP	HIGH POINT/HORSEPOWER		
B/B	BACK TO BACK	HVAC	HEATING VENTILATION AND AIR CONDITIONING	SPLY	SUPPLY
BD	BOARD	HWH	HOT WATER HEATER	SPEC	SPECIFICATION(S)
BLDG	BUILDING	HW	HOT WATER	SPRT	SUPPORT
BLKG	BLOCKING	I		SQ	SQUARE
BLST	BALLAST	IBC	INSTALLED BY CONTRACTOR	SST	STAINLESS STEEL
BM	BEAM/BENCH MARK	ID	INSIDE DIAMETER	STC	SOUND TRANSMISSION CLASS
BOS	BOTTOM OF STEEL	ID	INTERIOR DESIGN	STD	STANDARD
BOT	BOTTOM	INV EL	INVERT ELEVATION	STL	STEEL
BRG	BEARING	IF	INSIDE FACE	STL JST	STEEL JOIST
BSMT	BASEMENT	IN	INCHES	STOR	STORAGE
BTWN	BETWEEN	INCAND	INCANDESCENT	STRUCT	STRUCTURAL
BUR	BUILT UP ROOFING	INCL	INCLUDING	SURF	SURFACE
C		INSTL	INSTALL	SUSP	SUSPENDED
CB	CATCH BASIN	INSUL	INSULATE/INSULATION	SYMM	SYMMETRICAL
CBB	CEMENTITOUS BACKER BOARD	INT	INTERIOR/INTERNAL	T	
C/C	CENTER TO CENTER	INV	INVERT	T	TREAD
CAB	CABINET	J		T + B	TOP AND BOTTOM
CB	CATCH BASIN	JAN	JANITOR	T&G	TONGUE AND GROOVE
CEM	CEMENT	J BOX	JUNCTION BOX	TBD	TO BE DETERMINED
CEM PLAS	CEMENT PLASTER	JAN CLO	JANITOR CLOSET	TEL	TELEPHONE
CER	CERAMIC	JT	JOINT	TEMP	TEMPERATURE/TEMPORARY
CF	CUBIC FOOT/FEET	K		TERR	TERRAZZO
CFCI	CONTRACTOR FURNISHED/CONTRACTOR INSTALLED	KIT	KITCHEN	THK	THICK
		L		THRES	THRESHOLD
CFOI	CONTRACTOR FURNISHED/OWNER INSTALLED	LAM	LAMINATE	THRU	THROUGH
CFLG	COUNTER FLASHING	LAV	LAVATORY	THPD GL	TEMPERED GLASS
CF/MF	COLD FORMED METAL FRAMING	LBS	POUNDS	TO	TOP OF ____
C		LF	LINEAR FEET	TOJ	TOP OF JOIST
CG	CORNER GUARD	LH	LEFT HAND	TOC	TOP OF CONCRETE/TOP OF CURB
CIP	CAST IN PLACE	LLH	LONG LEG HORIZONTAL	TOM	TOP OF MASONRY
CJ	CONTROL JOINT/ CONSTRUCTION JOINT	LLV	LONG LEG VERTICAL	TOP	TOP OF PARAPET
		LPT	LOW POINT	TOS	TOP OF STEEL/TOP OF SLAB
CL	CENTERLINE	LT	LIGHT	TOW	TOP OF WALL
CLG	CEILING	LTG	LIGHTING	TRTD	TREATED
CLO	CLOSET	LVR	LOUVER	TS	TUBE STEEL
CLR	CLEAR	M		TYP	TYPICAL
CLT	CLEAT	MAINT	MAINTENANCE	U	
CMU	CONCRETE MASONRY UNIT	MAS	MASONRY	UBC	UNIFORM BUILDING CODE
CO	CLEAN OUT	MATL	MATERIAL	UC	UNDERCUT
COL	COLUMN	MAX	MAXIMUM	UL	UNDERWRITER'S LABORATORIES
CONC	CONCRETE	MECH	MECHANICAL		
COND	CONDITION	MED	MEDIUM	UNFIN	UNFINISHED
CONST	CONSTRUCTION	MEMB	MEMBRANE	UON	UNLESS OTHERWISE NOTED
CONT	CONTINUE/CONTINUATION OR CONTINUOUS	MFG	MANUFACTURING	UR	URINAL
		MFR	MANUFACTURER	UTIL	UTILITY
CONTR	CONTRACTOR	MIN	MINIMUM	V	
COORD	COORDINATE	MISC	MISCELLANEOUS	VAR	VARIES
COP	COPING	ML	METAL LATH	VNR	VENEER
CORR	CORRIDOR	MO	MASONRY OPENING	VCT	VINYL COMPOSITION TILE
CPT	CARPET	MOD BIT	MODIFIED BITUMEN	VERT	VERTICAL
CSK	COUNTER SUNK	MR	MOISTURE RESISTANT	VEST	VESTIBULE
CT	CERAMIC TILE	MS	MOP SINK	V/F	VERIFY IN FIELD
CTR	CENTER	MTD	MOUNTED	VTR	VENT THROUGH ROOF
CU FT	CUBIC FOOT/FEET	MTL	METAL	VNC	VINYL WALL COVERING
CW	COLD WATER	MULL	MULLION	W	
CY	CUBIC YARDS	N		W	WEST/WIDTH
	DEPTH/DEEP	N	NORTH	W/	WITH
DBL	DOUBLE	N/A	NOT APPLICABLE	WBL	WOOD BLOCKING
DEMO	DEMOLITION	NCOMBL	NONCOMBUSTIBLE	WC	WATER CLOSET/WALL COVERING
DET	DETAIL	NEG	NEGATIVE	WD	WOOD
DF	DRINKING FOUNTAIN	NIC	NOT IN CONTACT	WDW	WINDOW
DEL	DELETE	NO	NUMBER	WF	WIDE FLANGE
DETN	DETENTION	NOM	NOMINAL	WGL	WIRED GLASS
DIA	DIAMETER	NTS	NOT TO SCALE	WH	WATER HEATER/WEEP HOLE
DIAG	DIAGONAL	O		W/O	WITHOUT
DIM	DIMENSION	OA	OVERALL	WP	WATERPROOFING/WORKING POINT
DISP	DISPENSER	OC	ON CENTER		
DMPF	DAMPPROOFING	OD	OUTSIDE DIAMETER	WR	WATER RESISTANT
DN	DOWN	OF	OUTSIDE FACE	WT	WEIGHT
DR	DOOR/DRAIN	OF/CI	OWNER FURNISHED / CONTRACTOR INSTALLED	WWF	WELDED WIRE FABRIC
DS	DOWNSPOUT	OFF	OFFICE	Y	
DTL	DETAIL	OF/OI	OWNER FURNISHED / OWNER INSTALLED	YD	YARD/YARDS
DWG	DRAWING			MISCELLANEOUS	
D		OH	OPPOSITE HAND/ OVERHEAD/OVERHANG	=	NUMBER/POUNDS
E/(E)	EAST/EXISTING			&	AND
EA	EACH	O/O	OUT TO OUT	@	AT/EACH/RATE
EIFS	EXTERIOR INSULATION FINISH SYSTEM	OPNG	OPENING	'	FEET/MINUTES
		OPP	OPPOSITE	"	INCHES/SECONDS
EJ	EXPANSION JOINT	ORD	OVERFLOW ROOF DRAIN	°	DEGREES
EL	REFERENCE ELEVATION	ORIG	ORIGINAL	ø	DIAMETER
ELEC	ELECTRIC/ELECTRICAL	ORN	ORNAMENTAL	∠	ANGLE
ELEV	ELEVATOR/ELEVATION	ORS	OVERFLOW ROOF SCUPPER		
EMERG	EMERGENCY	P			
ENCL	ENCLOSURE	PTN	PARTITION		
ENGR	ENGINEER/ENGINEERING	PAT	PATTERN		
EOS	EDGE OF SLAB	PBD	PARTICLE BOARD		
EPDM	ETHYLENE PROPYLENE DIENE MONOMER	PCC	PRECAST CONCRETE		
		PERF	PERFORATED		
EQ	EQUAL	PERM	PERMANENT		
EQL SP	EQUALLY SPACED	PL	PLATE/PROPERTY LINE		
EQUIP	EQUIPMENT	PLAM	PLASTIC LAMINATE		
EST	ESTIMATE	PLAS	PLASTER/PLASTIC		
ETC	ET CETERA	PLBG	PLUMBING		
EW	EACH WAY	PLYWD	PLYWOOD		
EWC	ELECTRIC WATER COOLER	POL	POLISHED		
EXIST	EXISTING	PNL	PANEL		
EXP	EXPOSED	PT	PAINT		
EXPAN	EXPANSION	PR	PAIR		
EXT	EXTERIOR/EXTERNAL	PREFAB	PREFABRICATED		
		PREFIN	PREFINISHED		
F / F	FACE TO FACE	PRELIM	PRELIMINARY		
FA	FIRE ALARM	PREP	PREPARATION		
FACP	FIRE ALARM CONTROL PANEL	PROJ	PROJECT		
FBO	FURNISHED BY OWNER	PT CONC	POST TENSION CONCRETE		
FD	FLOOR DRAIN	PTD	PAINTED		
FDTN	FOUNDATION	PVC	POLYVINYL CHLORIDE		
FDV	FIRE DEPARTMENT VALVE CABINET	PVMT	PAVEMENT		
		Q			
FE	FIRE EXTINGUISHER	QT	QUARRY TILE		
FEC	FIRE EXTINGUISHER CABINET	QTY	QUANTITY		
F F EL	FINISHED FLOOR ELEVATION	R			
FF INSUL	FOIL BACKED INSULATION	R	RADIUS/RISER		
FIN GR	FINISHED GRADE	RA	RETURN AIR		
FH	FIRE HYDRANT	RB	RUBBER BASE		
FHC	FIRE HOSE CABINET	RBR	RUBBER		
FIN	FINISH	RCP	REFLECTED CEILING PLAN		
FIXT	FIXTURE	RD	ROOF DRAIN		
FL	FLOW LINE	RDG INS	RIGID INSULATION		
FLR	FLOOR/FLOORING	REBAR	REINFORCED STEEL BAR		
FLUOR	FLUORESCENT	REC	RECESSED		
FND	FOUNDATION	RE/REF	REFERENCE		
FR	FRAME/FIRE RATED/FIRE RETARTANT	REFR	REFRIGERATOR		
		RENF	REINFORCED/REINFORCEMENT		
FT	FOOT/FEET	REM	REMOVE		
FTG	FOOTING	REQ'D	REQUIRED		
FURG	FURRING	REV	REVISION		
FURN	FURNISH	RH	RIGHT HAND		
FUT	FUTURE	RL	ROOF LEADER		
FT	FOOT/FEET	RLG	RAILING		
FVC	FIRE VALVE CABINET	RM	ROOM		
FTG	FOOTING	RO	ROUGH OPENING		
FURG	FURRING	ROW	RIGHT OF WAY		
FURN	FURNISH	RP	REFERENCE POINT		
FUT	FUTURE	RTG	RATING		
FVC	FIRE VALVE CABINET	RTU	ROOF TOP UNIT		
		RVL	REVEAL		

BUILDING CODE DATA

CODES IN EFFECT

City of Greeley, Co.

2021 International Building Code
2021 International Residential Code
2021 International Property Maintenance Code
2021 International Mechanical Code
2021 International Plumbing Code
2021 International Existing Building Code
2021 International Energy Conservation Code
2021 International Fuel Gas Code
2023 National Electrical Code

OCCUPANCY TYPE

Group B

BUILDING TYPE

Type V-B Sprinklered

CODE SUMMARY

ZONING:	C-H (Commercial High Intensity)
OCCUPANCY:	Group B
BLDG. TYPE:	Type V-B, Sprinklered
AREA/HT:	1 Story, Main Building 30'-2" in height to top of parapet and 8,696 gsf, (V-B Maximum = 9,000 sf & 2 Story)
AREA CORE/SHELL BLDG:	7,449 Total Gross SF exterior footprint
OCCUPANT LOAD:	7,449 sf. ÷ 150 = 50 occupants Final Occupant Load T.B.D. By Tenant Finish
EXITING:	Exit width provided: (5 provided 2 required) 5 Exits: 4 Exits @ 34" 1 Exits @ 68" 102" Max. Length of common path of egress is 100'
FIRE PROTECTION:	Contractor to verify sprinkler and alarm requirements with Fire Department. Engineered alarm drawings will be submitted by the sub contractor to the fire department for review and approval if required
RESTROOM FACILITIES:	To be provided with tenant finish

GENERAL REQUIREMENTS

1. GENERAL REQUIREMENTS

1.1 SUMMARY:

THE WORK INCLUDES BUT IS NOT LIMITED TO THE SITEWORK AND CORE-SHELL BUILDING IMPROVEMENTS OF THE FACILITY AT THE REFERENCED ADDRESS, INCLUDING RELATED UTILITIES, GRADING, PAVING, LANDSCAPING, ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND ALARMS AND SPECIAL EQUIPMENT, SYSTEMS AND COORDINATION THEREOF AS NECESSARY FOR FULL AND COMPLETE INTENDED USE BY THE OWNER, THE INTENT OF WHICH IS INDICATED IN THE CONSTRUCTION DOCUMENTS.

1.2 GENERAL CONDITIONS OF THE CONTRACT:

A. THE CONTRACT DOCUMENTS INCLUDE "GENERAL CONDITIONS, SEE SPECIFICATION BOOK

B. THE ARCHITECT SHALL BE THE SOLE INTERPRETER OF THE INTENT OF THE CONTRACT DOCUMENTS

1.3 GENERAL NOTES:

1. CONTRACTORS RESPONSIBLE FOR VISITING SITE TO BECOME FAMILIAR WITH EXISTING SITE CONDITIONS PRIOR TO BID AND START OF WORK.
2. ALL WORK TO BE IN ACCORDANCE WITH APPLICABLE CODES AND ORDINANCES.
3. ALL RFI'S MUST BE SUBMITTED IN WRITING.
4. FULL SUBMITTALS/SHOP DRAWINGS REQUIRED FROM ALL TRADES.
5. ANY CONFLICTS OR DISCREPANCIES MUST BE REPORTED TO THE ARCHITECT IMMEDIATELY UPON THEIR DISCOVERY.
6. ALL WORK SHALL ALSO CONFORM TO THE OWNERS BUILDING STANDARDS AND DETAILS, G.C. TO COORDINATE AND VERIFY
7. G.C. SHALL COORDINATE ALL WORK BY OWNERS VENDORS INCLUDING BUT NOT LIMITED TO COMPUTER, TELEPHONE, SECURITY AND BUILDING CONTROL SYSTEMS. G.C. SHALL REVIEW SAID CONTRACTS AND DRAWINGS AND DISCUSS SAME WITH VENDORS PRIOR TO BID AND CONSTRUCTION.
8. INSTALL ALL ITEMS, EQUIPMENT AND MATERIALS PER MANUFACTURERS INSTRUCTIONS
9. G.C. SHALL BE RESPONSIBLE FOR SECURING AND PAYING FOR ALL PERMITS AND INSPECTIONS
10. G.C. SHALL BE RESPONSIBLE FOR COORDINATING ANY REQUIRED TESTING AND INSPECTIONS AND FORWARDING THAT INFORMATION TO THE ARCHITECT AND OWNER.
11. FIRE SPRINKLERS AND FIRE ALARMS TO BE AS REQUIRED BY THE LOCAL FIRE DISTRICT. SPRINKLER AND ALARM SUBCONTRACTORS TO PREPARE SHOP DRAWINGS AND SUBMIT FOR/OBTAIN PERMITS AS REQUIRED.

1.4 BIDDING

A. CONTRACTORS BY PROVIDING A BID REPRESENT THAT THEY:
1) UNDERSTAND THE REQUIREMENTS OF THE CONSTRUCTION CONTRACT
2) HAVE VISITED THE SITE AND ARE FAMILIAR WITH THE CONDITIONS
3) PROVIDED A BID BASED UPON FULL EXECUTION OF THE INTENT OF THE CONTRACT DOCUMENTS
4) CONSULTED WITH THE OWNER REGARDING ACCESS, STORAGE, RESTROOMS, TRASH REMOVAL, ETC. AND ANY OTHER NECESSITIES OF CONSTRUCTION AND HAVE INCLUDED THOSE COSTS IN THE BID SUBMITTED
5)HAVE VERIFIED THE ADEQUACY OF NEW AND EXISTING WORK REQUIRED BY CONTRACT DOCUMENTS

B. ALLOWANCES: ALLOWANCE PRICE SHALL INCLUDE ONLY THE TAILGATE DELIVERY AND MATERIAL COSTS AS INVOICED FROM THE MANUFACTURER OR SUPPLIER. INSTALLATION SHALL BE INCLUDED IN THE BASE PRICE
C. ALTERNATES: ITEMIZE ALL INCLUSIVE ADD/DEDUCT PRICES FOR ALL ALTERNATES LISTED IN CONTRACT DOCUMENTS
D. SUBSTITUTIONS: NO SUBSTITUTIONS SHALL BE INCORPORATED INTO THE WORK WITHOUT PRIOR WRITTEN APPROVAL OF THE ARCHITECT. NO SUBSTITUTIONS WILL BE ENTERTAINED UNLESS THEY REPRESENT A COST SAVINGS TO THE OWNER WITHOUT SACRIFICING QUALITY OR FUNCTION.
E. COMPLETE BID BREAKDOWNS SHALL BE SUBMITTED INCLUDING GENERAL CONDITIONS, OVERHEAD AND PROFIT AND ALL DIVISIONS OF THE WORK IN CSI FORMAT

1.5 SUBMITTALS

A. SUBMIT 3 COPIES MIN. OF SHOP DRAWINGS, PRODUCT DATA AND FINISH SAMPLES (OR ELECTRONIC COPIES)
B. ALLOW 5 WORKING DAYS FOR ARCHITECTS REVIEW OF SUBMITTALS
C. G.C. MUST CERTIFY IN WRITING THAT SUBMITTALS COMPLY WITH DESIGN INTENT UPON SUBMITTING TO THE ARCHITECT
D. SUCCESSFUL G.C. SHALL SUBMIT WITHIN 7 DAYS OF CONTRACT AWARD, AND MONTHLY THEREAFTER FOR ARCHITECTS REVIEW: 1) CONSTRUCTION SCHEDULE 2) SUBMITTAL SCHEDULE
E. G.C. SHALL SUBMIT A PUNCH LIST FOR OWNERS REVIEW 1 WEEK PRIOR TO APPLICATION FOR FINAL PAYMENT

1.6 FINAL CLEAN

A. CONTRACTOR TO PROVIDE FOR A COMPLETE AND FINAL CLEAN OF ALL WORK ASSOCIATED WITH THIS PROJECT
B. SURPLUS MATERIALS SHALL BE DELIVERED, AT OWNERS OPTION, TO THE OWNER

1.7 PROJECT CLOSE-OUT

A. CONTRACTOR TO PROVIDE OPERATION/MAINTENANCE MANUALS TO OWNER FOR ALL CONTRACTOR PROVIDED & INSTALLED EQUIPMENT, FIXTURES AND FINISHES/MATERIALS

FIRE BLOCKING REQUIRED

1. AT CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES, AT THE CEILING AND FLOOR LEVELS, AND AT 10' FT. INTERVALS BOTH VERTICAL AND HORIZONTAL.

2. AT ALL INTER-CONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS SOFFITS, DROPPED CEILINGS, AND COVE CEILINGS.

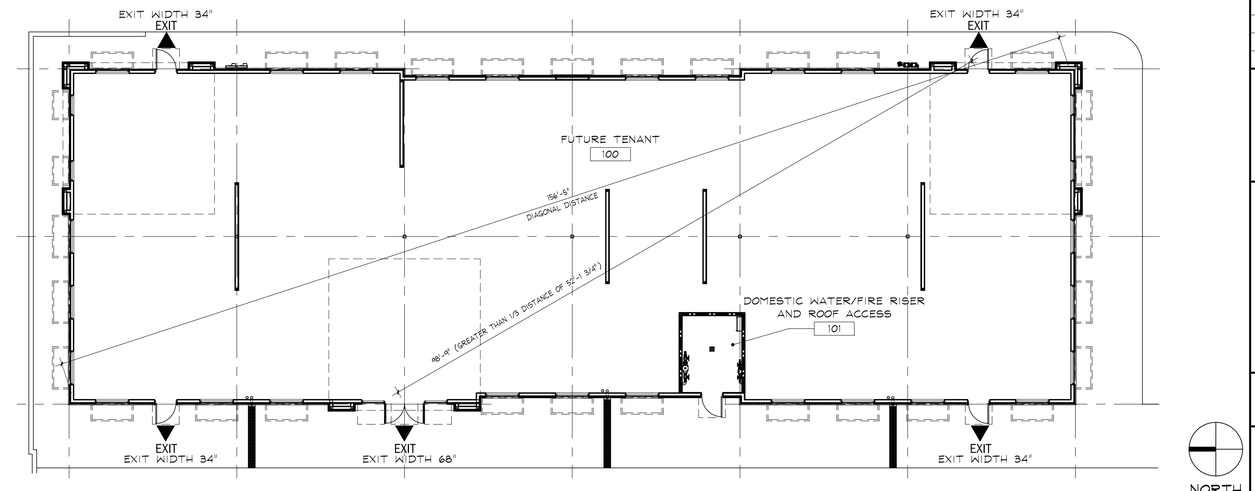
3. IN CONCEALED SPACES BETWEEN STAIR STRINGERS, AT THE TOP AND THE BOTTOM OF THE RUN AND BETWEEN STUDS ALONG AND IN LINE WITH THE RUN OF STAIRS, IF THE WALLS UNDER THE STAIRS ARE UNFINISHED.

4. IN OPENINGS AROUND VENTS, PIPES, DUCTS, CHIMNEYS, FIREPLACES, AND SIMILAR OPENINGS WHICH AFFORD A PASSAGE FOR FIRE AT CEILING AND FLOOR LEVELS, USE NON-COMBUSTIBLE MATERIALS.

5. AT OPENINGS BETWEEN ATTIC SPACES AND CHIMNEY CHASES FOR FACTORY-BUILT CHIMNEYS.

6. WALLS HAVING PARALLEL OR STAGGERED STUDS FOR SOUND CONTROL, SHALL HAVE FIRE BLOCKS OF MINERAL FIBER OR GLASS FIBER, OR OTHER APPROVED NON-RIGID MATERIAL.

7. THE INTEGRITY OF ALL FIRE BLOCKING, AND DRAFT STOPS, SHALL BE MAINTAINED.



G1	LIFE SAFETY PLAN
3/32"=1'-0"	RE:

No	Revision / Submissions	Date

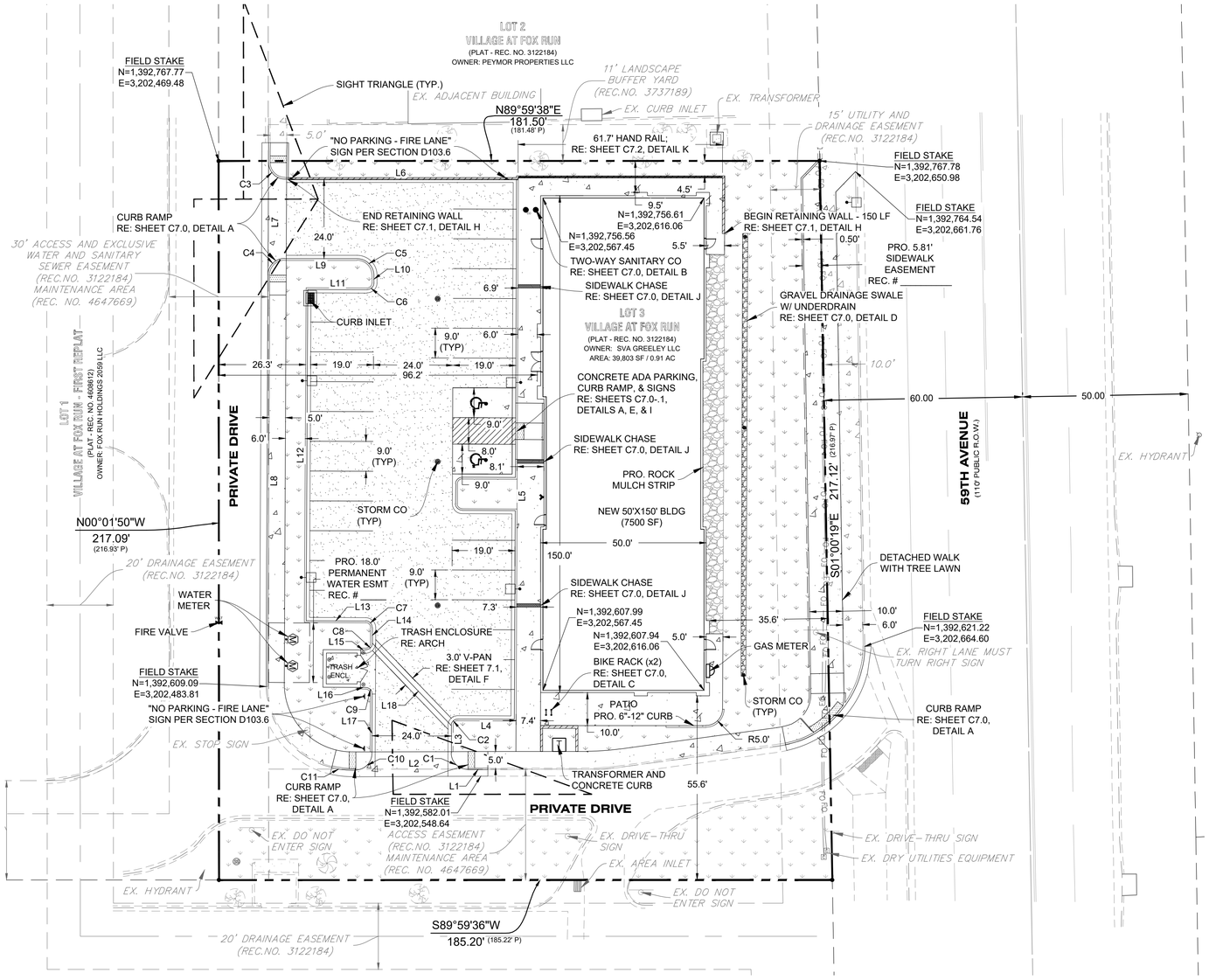
3650 Wadsworth Boulevard
Wheat Ridge, Colorado 80033
Phone: 303-428-4895
Fax: 303-428-5472
Email: info@battistadesign.net
www.battistadesign.net
BATTISTA DESIGN GROUP

SVA GREELEY
Shell Building
1911 59th AVENUE
GREELEY, CO 80634

GENERAL AND CODE INFO

STATE OF COLORADO · PAUL BATTISTA B-3015 02/12/2025 · LICENSED ARCHITECT

Designed:	Project Number: SVA2025
Drawn:	Scale: As Shown
Checked:	Drawing Number:
Reviewed:	G1.1
Date: Feb., 2025	of



LEGEND

EXISTING		PROPOSED
	CURB AND GUTTER (SPILL)	
	CURB AND GUTTER (CATCH)	
C E F	ELECTRICAL BOX	E
	SITE LIGHT	
	SIGN	
ST SS	MANHOLES	ST SAN
	INLET	
M	METER PIT	M
WAT	GATE VALVE	WAT
	THRUST BLOCK	
CO	CLEAN OUT	CO
	TREE	
	UTILITY POLE	
G	GAS METER	G
	FIRE HYDRANT	

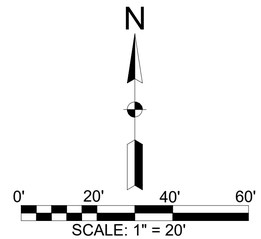
HATCHING LEGEND

EXISTING		PROPOSED
	CONCRETE	
	LANDSCAPE	
	ASPHALT	

LINE TABLE		
LINE #	BEARING	DISTANCE
L1	N89°47'23"E	5.99
L2	N89°45'11"E	33.83
L3	S00°13'38"W	8.25
L4	N89°46'22"W	17.00
L5	S00°13'38"W	163.08
L6	N89°59'38"E	69.89
L7	S00°16'02"W	34.00
L8	S00°16'02"W	124.20
L9	S89°59'38"W	21.93
L10	N00°13'38"E	2.37
L11	S89°43'58"E	17.99
L12	N00°16'02"E	100.00
L13	N89°43'58"W	18.00
L14	N00°13'38"E	4.70
L15	S89°55'19"E	1.50
L16	N89°45'57"W	1.50
L17	N00°13'38"E	18.02
L18	S43°48'54"E	34.52

CURVE TABLE					
CURVE #	ARC LENGTH	RADIUS	DELTA ANGLE	CHORD BEARING	CHORD LENGTH
C1	7.89	5.00	90°26'15"	S44°59'29"E	7.10
C2	3.14	2.00	90°00'00"	S45°13'38"W	2.83
C3	7.88	5.00	90°16'23"	S44°52'10"E	7.09
C4	7.83	5.00	89°43'37"	S45°07'50"W	7.05
C5	7.89	5.10	88°37'02"	N45°13'25"W	7.13
C6	3.14	2.00	89°59'56"	N45°13'36"E	2.83
C7	3.14	2.00	90°00'00"	N44°46'22"W	2.83
C8	3.14	2.00	89°51'02"	N45°09'10"E	2.82
C9	3.14	2.00	89°59'35"	N44°46'09"W	2.83
C10	7.65	5.00	87°36'52"	N44°02'05"E	6.92
C11	7.37	26.16	16°09'17"	S84°04'51"E	7.35

NOTES:
1. "FIELD STAKES" SHOWN TO DEFINE ALLOWABLE LIMITS OF DISTURBANCE. SEE THE EROSION CONTROL SHEETS (C8.0-C8.2) FOR THE DEFINING LINE OF ALLOWABLE DISTURBANCE.



HCI ENGINEERING
A DIVISION OF
HABERER CARPENTRY INC.
621 SOUTHPma
PHONE: (MINFO@HABERERGROUP.COM

Know what's **below**, Call before you dig.

811

CALL 811 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

SVA GREELEY - DENTAL BUILDING
CONSTRUCTION DOCUMENTS
1911 59th AVENUE
GREELEY, CO 80634

REVISIONS:		
No.	Date:	Description:
1	08.05.24	Submittal #1
2	10.29.24	Submittal #2
3	12.13.24	Submittal #3
4	01.17.25	Submittal #4
5	02.07.25	Submittal #5

Project No: 24_06
Drawn By: GJB
Checked By: CCH
Date Issued: 06.02.2025
Sheet Name:
SITE & HC PLAN
Sheet Number:
SP.1

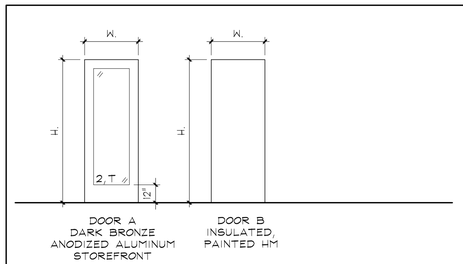
FILENAME: U:\HCI Engineering Projects\2024\24_06 - Greeley Ortho\CAD\Plans\CDs\24_06 CD - Site Plan.dwg PLOTDATE: 2025-02-06

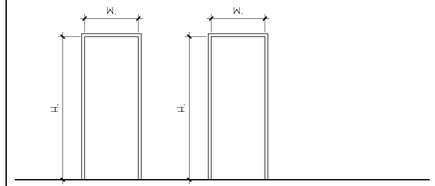
DOOR AND FRAME SCHEDULE

DOOR NO.	SIZE			DOOR				FRAME			DETAILS			FIRE RATING	H W	REMARKS
	WIDTH	X HEIGHT	X THICK	TYPE	MATERIAL	FINISH	GLASS	TYPE	MATERIAL	FINISH	HEAD	JAMB(S)	SILL			
100	3'-0"	8'-0"	1-3/4"	A	ALU	ANO	GL1	2	ALU	ANO	-	-	-	-	02	ENTRANCE LOCK
100A	PR. 3'-0"	8'-0"	1-3/4"	A	ALU	ANO	GL1	1	ALU	ANO	-	-	-	-	01	ENTRANCE LOCK
100B	3'-0"	8'-0"	1-3/4"	A	ALU	ANO	GL1	2	ALU	ANO	-	-	-	-	02	ENTRANCE LOCK
100C	3'-0"	8'-0"	1-3/4"	A	ALU	ANO	GL1	2	ALU	ANO	-	-	-	-	02	ENTRANCE LOCK
100D	3'-0"	8'-0"	1-3/4"	A	ALU	ANO	GL1	2	ALU	ANO	-	-	-	-	02	ENTRANCE LOCK
101	3'-0"	8'-0"	1-3/4"	C	HM	PNT	-	3	HM	PNT	-	-	-	-	03	STOREROOM LOCK

GLAZING TYPES

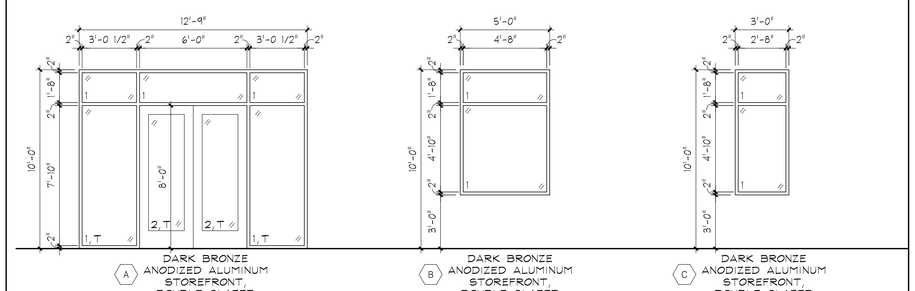
TYPE	GLAZING MATERIAL
1	1" INSULATED GLASS WITH ARGON, LOW 'E', SOLAR GRAY COATING
2	1/4" LOW 'E' GLASS. GRAY TINTED
T	INDICATES TEMPERED GLASS





NOTES:

1. FRAMES TO BE WELDED HOLLOW METAL FRAMES - SHOP PRIMED AND FIELD PAINTED WITH SEMI-GLOSS OIL BASED PAINT, OR KYNAR FINISH ALUMINUM STOREFRONT, SEE SCHEDULE
2. SUBMIT SHOP DRAWINGS AND SAMPLES FOR REVIEW
3. DOORS TO BE KYNAR FINISH ALUMINUM OR PAINTED HOLLOW METAL, SEE SCHEDULE



DOOR HARDWARE SCHEDULE

HARDWARE SET	QTY.	DESCRIPTION	CATALOG NUMBER	FINISH	MFR	REMARKS
HW SET: 01 DOORS:	2 EA	CONT. HINGE	112HD	628	IVE	FREE EGRESS AT ALL TIMES.
	1 EA	PANIC HARDWARE	CD-9847-EO	626	VON	PANIC HARDWARE DEVICE LATCH MAY BE MECHANICALLY
	1 EA	PANIC HARDWARE	CD-9847-NL-OP-110MD	626	VON	HELD IN RETRACTED STATE BY MECHANICAL CYLINDER
	2 EA	MORTISE CYLINDER	20-001 (CAM/COLLAR AS REQ.)	626	SCH	DOGGING FEATURE FOR PUSH/PULL OPERATION.
	1 EA	RIM CYLINDER	20-022	626	SCH	
	2 EA	90 DEG OFFSET PULL	8190EZHD 10" O	630	IVE	
	2 EA	SURFACE CLOSER	4050 SCUSH	689	LCN	WITH SPRING STOP
	2 SET	CLOSER BRACKET(S)	AS REQ. TO INSTALL CLOSER	689	LCN	
	1 SET	SEALS	BY ALUM DOOR/FRAME MFR.			
	1 EA	MEETING STILE SEAL	BY ALUM DOOR/FRAME MFR.			
	2 EA	DOOR SWEEP	BY ALUM DOOR/FRAME MFR.			
	1 EA	THRESHOLD	655A - OR AS REQ. BY SILL DET.	A	ZER	
HW SET: 02 DOORS:	1 EA	CONT. HINGE	112HD	628	IVE	FREE EGRESS AT ALL TIMES.
	1 EA	PANIC HARDWARE	CD-9847-NL-OP-110MD	626	VON	PANIC HARDWARE DEVICE LATCH MAY BE MECHANICALLY
	1 EA	MORTISE CYLINDER	20-001 (CAM/COLLAR AS REQ.)	626	SCH	HELD IN RETRACTED STATE BY MECHANICAL CYLINDER
	1 EA	RIM CYLINDER	20-022	626	SCH	DOGGING FEATURE FOR PUSH/PULL OPERATION.
	1 EA	90 DEG OFFSET PULL	8190EZHD 10" O	630	IVE	
	1 EA	SURFACE CLOSER	4050 SCUSH	689	LCN	WITH SPRING STOP
	1 SET	CLOSER BRACKET(S)	AS REQ. TO INSTALL CLOSER	689	LCN	
	1 SET	SEALS	BY ALUM DOOR/FRAME MFR.			
	1 EA	DOOR SWEEP	BY ALUM DOOR/FRAME MFR.			
	1 EA	THRESHOLD	655A - OR AS REQ. BY SILL DET.	A	ZER	
HW SET: 03 DOORS:	3 EA	HINGE	5BB1HW 4.5 X 4.5 NRP	630	IVE	FREE EGRESS AT ALL TIMES. PANIC HARDWARE DEVICE LATCH MAY BE
	1 EA	STOREROOM LOCK	AL80PD NEP	626	SCH	MECHANICALLY HELD IN RETRACTED STATE BY MECHANICAL CYLINDER DOGGING
	1 EA	LOCK GUARD	LG12	630	IVE	FEATURE FOR PUSH/PULL OPERATION.
	1 EA	SURFACE CLOSER	4050 SCUSH	689	LCN	WITH SPRING STOP
	1 EA	PROTECTION PLATE	8400 10" X 2" LDW B-CS	630	IVE	
	1 EA	RAIN DRIP	142AA	AA	ZER	
	1 EA	GASKETING	429A @ HEAD & JAMBS	A	ZER	
	1 EA	DOOR SWEEP	39A	A	ZER	
	1 EA	THRESHOLD	655A - OR AS REQ. BY SILL DET.	A	ZER	

Manufacturer Legend: Substitutions:

(BYO) By Others
(FAL) FalconSchlage, Marks
(GLY) Glynn Johnson Rixson, ABH
(IVE) Ives Hinges, Stanley, McKinney
(IVE) Ives Trimco, Rockwood
(NGP) National Guard Products Pemko, Zero International
(SCH) Schlage No Substitution
(STA) Stanley

Schedule Notes:

A. General:
1. Intent of Hardware Groups
a. The following schedule of hardware groups shall be considered a guide only. It shall be the hardware supplier's responsibility to furnish all required hardware.
b. Where items of hardware aren't definitely or correctly specified and are required for completion of the Work, a written statement of such omission, error, or other discrepancy shall be sent to the Architect, prior to date specified for receipt of bids for clarification by addendum; or, furnish such items in the type and quality established by this specification, and appropriate to the service intended.
c. Adjustments to the Contract Sum will not be allowed for omissions or items of hardware not clarified prior to bid opening.
2. Furnish all items in US26D (BHMA 626/652), Satin Chrome unless otherwise specified, Thresholds and Weatherstrip shall be Mill Finish Aluminum. Closers shall be Powder Coated Aluminum. Trim and Flat Goods may be furnished in US32D (BHMA 630), Satin Stainless Steel.

B. Lock and Latchsets:
1. General Contractor to arrange for a keying meeting, and programming meeting with Architect, Owner and hardware supplier, and other involved parties to ensure locksets and locking hardware, are functionally correct and keying and programming complies with project requirements.
2. Provide 2 3/4 inch backset.
3. Provide strikes with extended lips where required to protect trim from being marred by latch bolt. Provide strike lips that do not project more than 1/8" beyond doorframe trim. Provide wrought box strikes on all locks and latches.

C. Panic Hardware
1. Exit devices shall be touchpad style powder coated to the standard architectural finishes to match the balance of the door hardware.
2. Trim: as specified in sets, function numbers as listed in sets. .
3. Exit devices shall be UL listed panic exit hardware.
4. Provide hex key dogging on panic exit hardware.
5. After installation of all exit devices, General Contractor to have Manufacturer's representative inspect installation and advise if devices are adjusted correctly.

D. Door Closers:
1. Door closers shall have fully hydraulic, full rack and pinion action with a high strength cast iron or aluminum cylinder.
2. Spring power shall be continuously adjustable over the full range of closer sizes, and allow for reduced opening force for the physically handicapped. Closers shall have separate adjustment for latch speed, general speed, and backcheck.
3. Refer to door and frame details and furnish accessories such as drop plates, special templates, spacers and supports as required to correctly install door closers. State degree of door swing in the hardware schedule. Place closers inside building, stairs and rooms.
4. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with accessibility requirements.
5. Door control devices backcheck shall be properly located for protection of the door, frame, and applied hardware.

E. Threshold and Gasketing
1. Door Jambs must be cleaned of all dirt, grease, oil, solvents or solvent residue and dust before applying Pressure-Sensitive Adhesive backed Weatherstripping.
2. Thresholds: Set thresholds for exterior in full bed of sealant.

F. Cylinders and Keying:
1. Hardware supplier shall meet with the Owner to finalize keying requirements and obtain keying instructions in writing. All cylinders shall be masterkeyed by supplier as directed by Owner. Quantities of permanent keys will be as determined by the Owner. Permanent keys shall be stamped with the applicable key mark as determined by the Owner for identification, and shall be stamped "Do Not Duplicate". Deliver all permanent keys direct to Owner from supplier by secure courier return receipt requested. If required by Owner all cylinders shall be construction keyed, furnish 5 construction keys.

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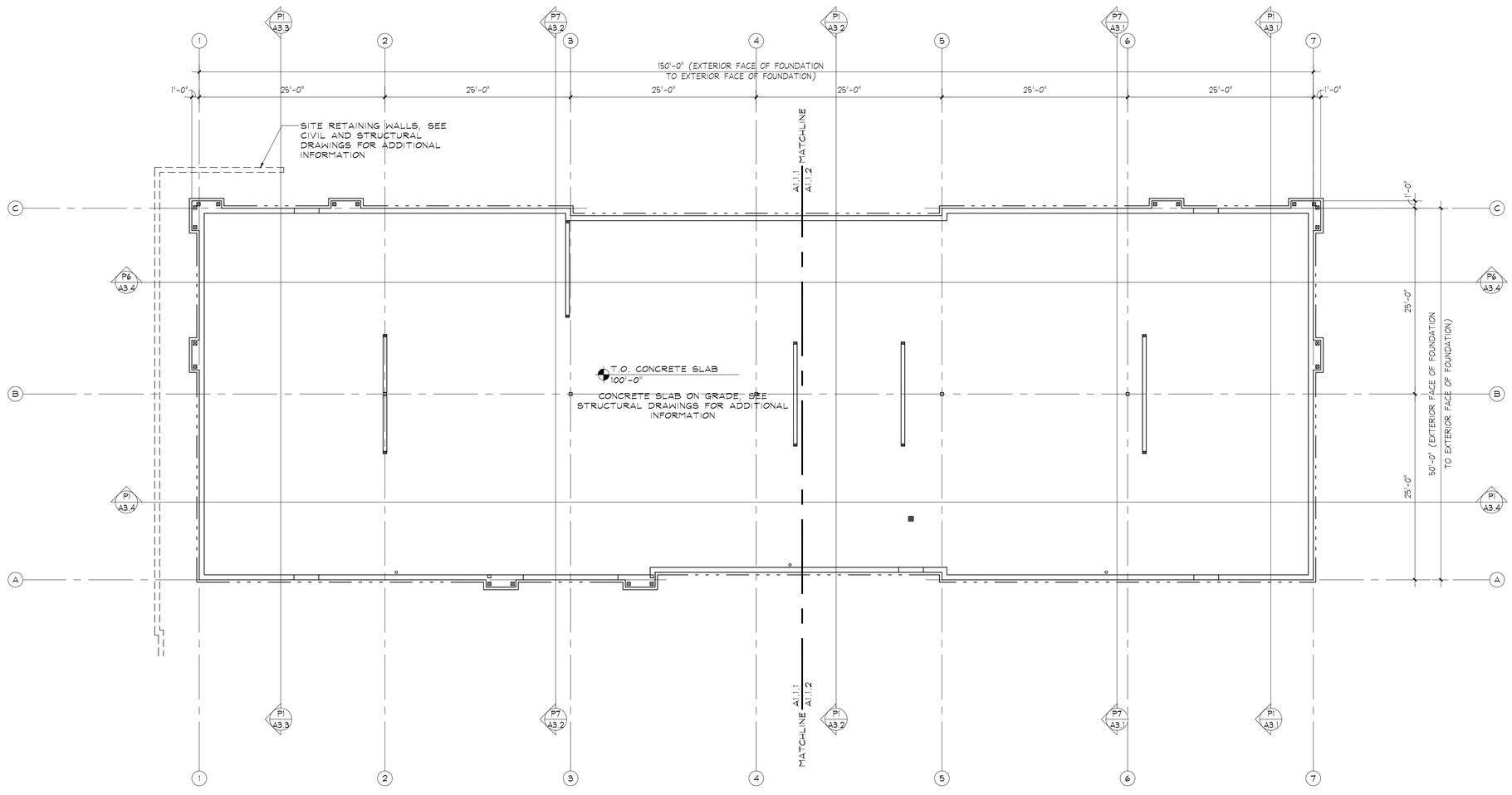
DOOR AND HARDWARE SCHEDULE
DOOR AND WINDOW TYPES

STATE OF COLORADO PAUL J. BATTISTA B-3015 02/11/2025 LICENSED ARCHITECT

Designed:	Project Number: SVA2025
Drawn:	Scale: As Shown
Checked:	Drawing Number:
Reviewed:	A0.1
Date: Feb., 2025	of

A1	DOOR, FRAME AND WINDOW TYPES
1/4 " = 1'-0"	RE:



NOTES:

1. SEE S SHEETS FOR ADDITIONAL INFORMATION. COORDINATE WALL/CURB HEIGHTS WITH STRUCTURAL, NOTIFY ARCHITECT OF ANY DISCREPANCIES.

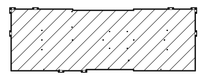
2. PROVIDE WATER STOPS IN ALL JOINTS IN CONCRETE WALLS AS OCCURS

3. SEE SHEETS A1.0.1 AND A1.0.2 FOR ADDITIONAL INFORMATION.

Foundation Walls
Moisture Barrier Schedule

WATERPROOFING, FULL HEIGHT

Key Plan:



NORTH

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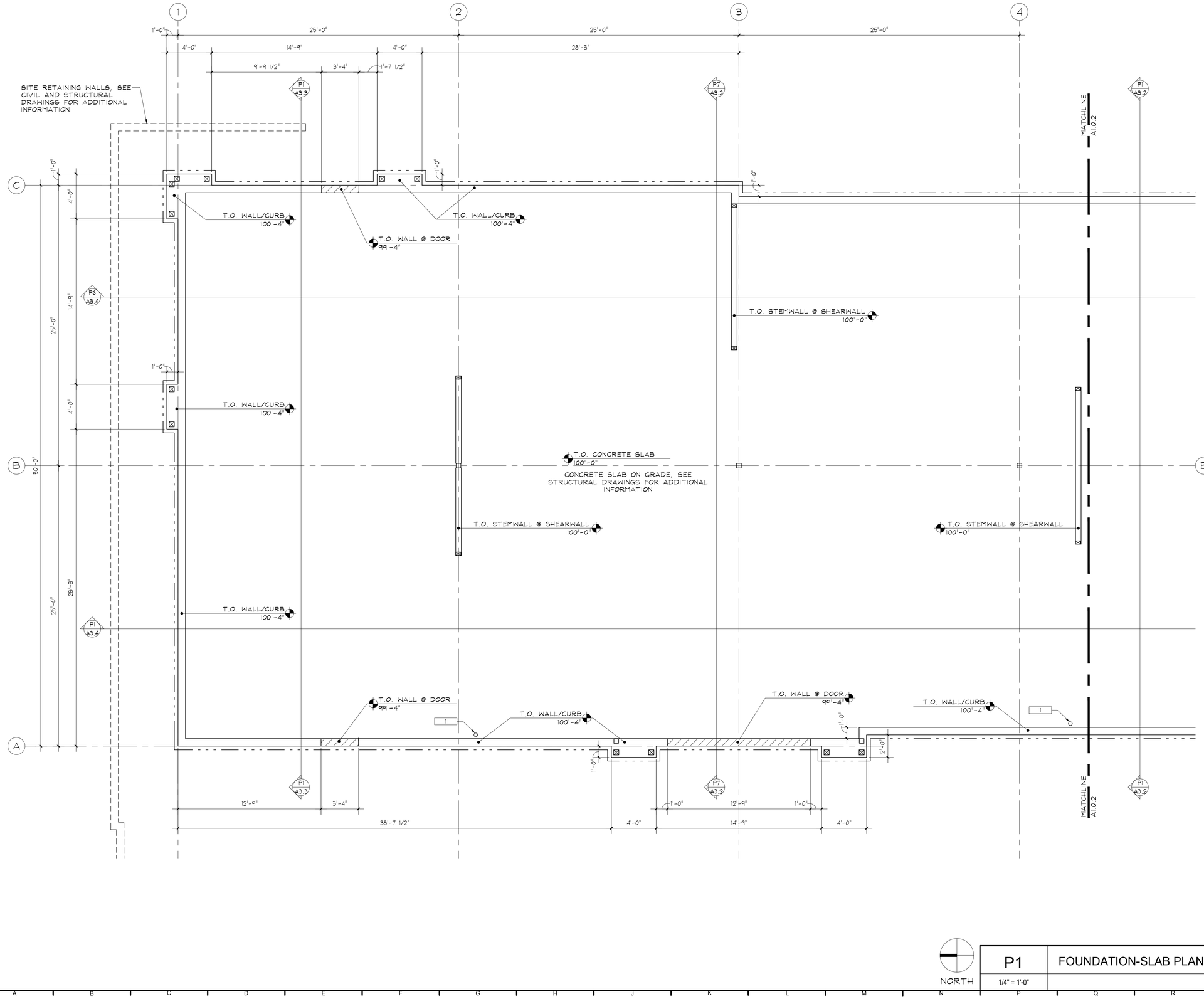
OVERALL FOUNDATION-SLAB PLAN

NORTH

P1	OVERALL FOUNDATION-SLAB PLAN
1/8" = 1'-0"	

STATE OF COLORADO
PAUL J. BATTISTA
B-3015
02/11/2025
LICENSED ARCHITECT

Designed: PJB	Project Number: SVA2025
Drawn: IJF	Scale: As Shown
Checked: PJB	Drawing Number: A1.0
Reviewed: PJB	
Date: Feb., 2025	of



NOTES:

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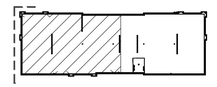
KEYNOTES: (THIS SHEET ONLY)

1 ROOF DRAIN LEADER

Foundation Walls Moisture Barrier Schedule

WATERPROOFING, FULL HEIGHT

Key Plan:



NORTH

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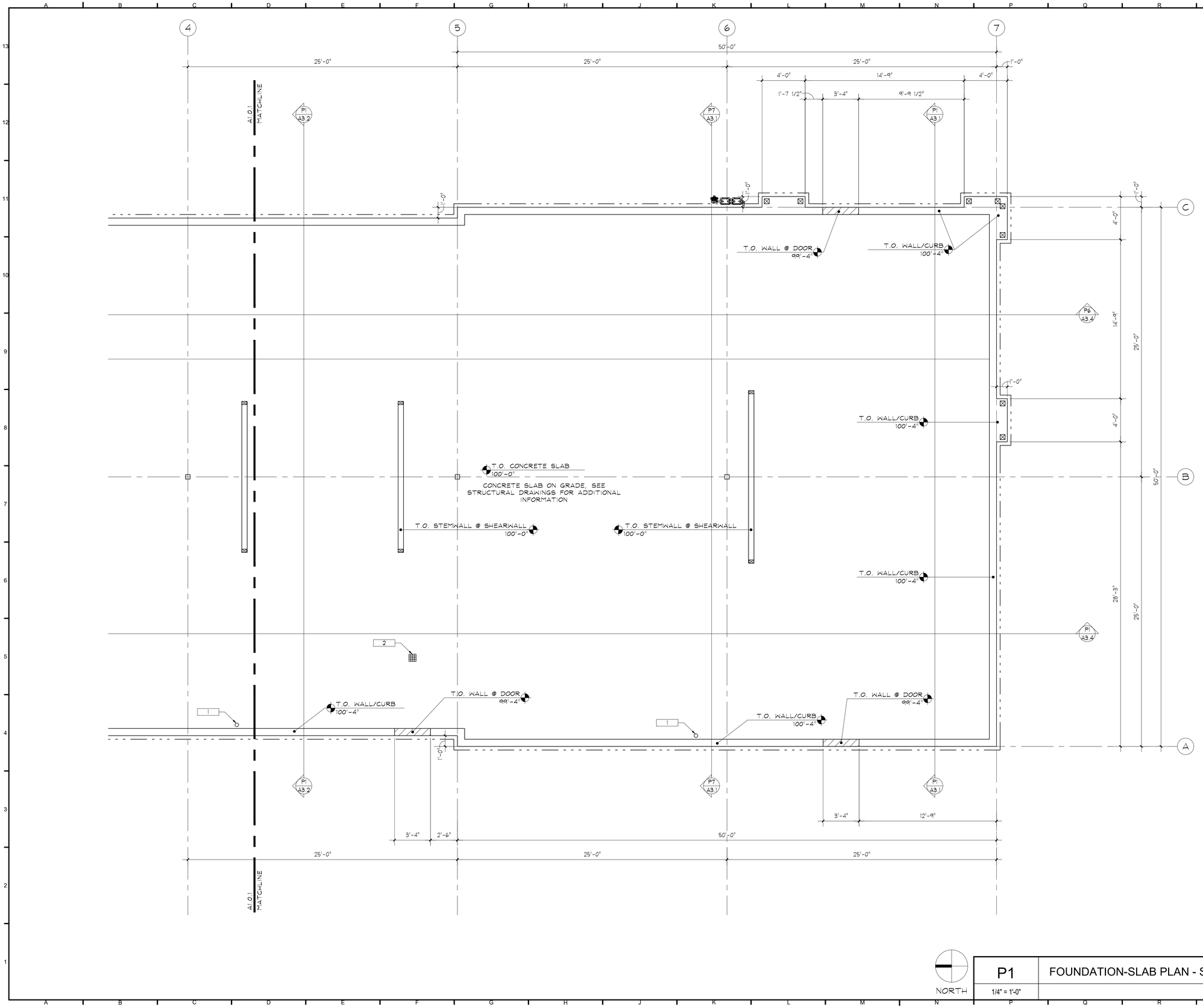
FOUNDATION-SLAB PLAN - NORTH

NORTH

P1	FOUNDATION-SLAB PLAN - NORTH
1/4" = 1'-0"	

STATE OF COLORADO
PAUL J. BATTISTA
B-3015
02/11/2025
LICENSED ARCHITECT

Designed: PJB	Project Number: SVA2025
Drawn: IJF	Scale: As Shown
Checked: PJB	Drawing Number: A1.0.1
Reviewed: PJB	
Date: Feb., 2025	of



NOTES:

1. SEE S SHEETS FOR ADDITIONAL INFORMATION. COORDINATE WALL/CURB HEIGHTS WITH STRUCTURAL, NOTIFY ARCHITECT OF ANY DISCREPANCIES.

2. PROVIDE WATER STOPS IN ALL JOINTS IN CONCRETE WALLS AS OCCURS

3. SEE SHEETS A1.0.1 AND A1.0.2 FOR ADDITIONAL INFORMATION.

KEYNOTES: (THIS SHEET ONLY)

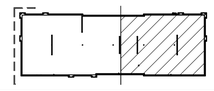
1 ROOF DRAIN LEADER

2 FLOOR DRAIN

Foundation Walls
Moisture Barrier Schedule

WATERPROOFING, FULL HEIGHT

Key Plan:



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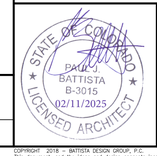
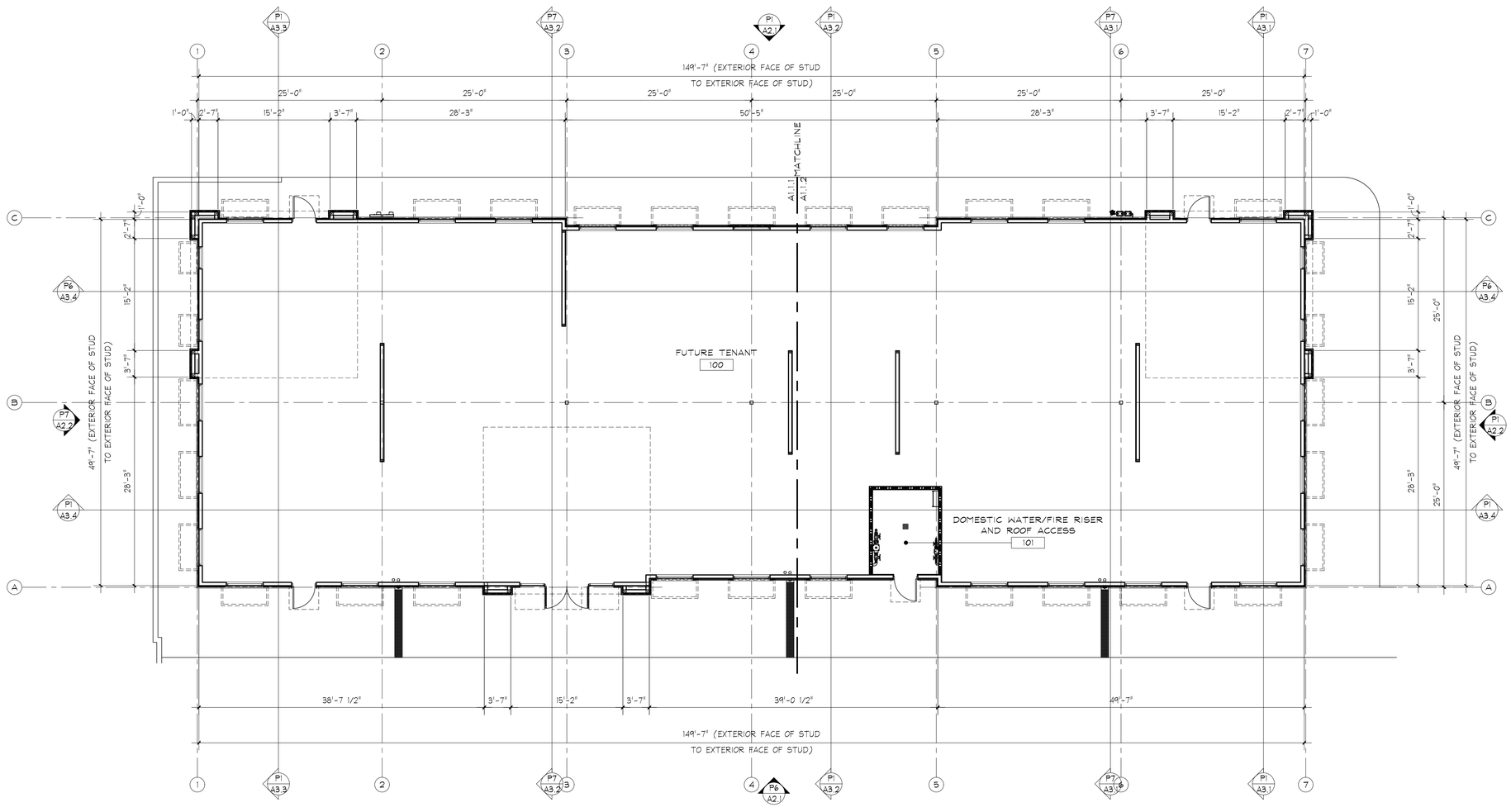
FOUNDATION-SLAB PLAN - SOUTH

NORTH

P1	FOUNDATION-SLAB PLAN - SOUTH
1/4" = 1'-0"	



Designed: PJB	Project Number: SVA2025
Drawn: IJF	Scale: As Shown
Checked: PJB	Drawing Number: A1.0.2
Reviewed: PJB	
Date: Feb., 2025	of



NOTES:

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2. PROVIDE CAULK OR SEALANT AT ALL JOINTS OR CRACKS WHERE DISSIMILAR MATERIALS INTERSECT AND ARE PERPENDICULAR TO EACH OTHER, AND THE INTERSECTION IS EXPOSED TO VIEW, UNLESS INDICATED OTHERWISE.

3. SEE MEP DRAWINGS FOR ADDITIONAL INFORMATION.

4. SEE SHEETS A1.1.1 AND A1.1.2 FOR ADDITIONAL INFORMATION.

FIRE BLOCKING REQUIRED

1. AT CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES, AT THE CEILING AND FLOOR LEVELS, AND AT 10' FT. INTERVALS BOTH VERTICAL AND HORIZONTAL.

2. AT ALL INTER-CONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS SOFFITS, DROPPED CEILINGS, AND COVE CEILINGS.

3. IN CONCEALED SPACES BETWEEN STAIR STRINGERS, AT THE TOP AND THE BOTTOM OF THE RUN AND BETWEEN STUDS ALONG AND IN LINE WITH THE RUN OF STAIRS. IF THE WALLS UNDER THE STAIRS ARE UNFINISHED.

4. IN OPENINGS AROUND VENTS, PIPES, DUCTS, CHIMNEYS, FIREPLACES, AND SIMILAR OPENINGS WHICH AFFORD A PASSAGE FOR FIRE AT CEILING AND FLOOR LEVELS, USE NON-COMBUSTIBLE MATERIALS.

5. AT OPENINGS BETWEEN ATTIC SPACES AND CHIMNEY CHASES FOR FACTORY-BUILT CHIMNEYS.

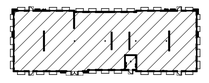
6. WALLS HAVING PARALLEL OR STAGGERED STUDS FOR SOUND CONTROL, SHALL HAVE FIRE BLOCKS OF MINERAL FIBER OR GLASS FIBER, OR OTHER APPROVED NON-RIGID MATERIAL.

7. THE INTEGRITY OF ALL FIRE BLOCKING, AND DRAFT STOPS, SHALL BE MAINTAINED.

Plan Legend:

1 HR PARTITION

Key Plan:



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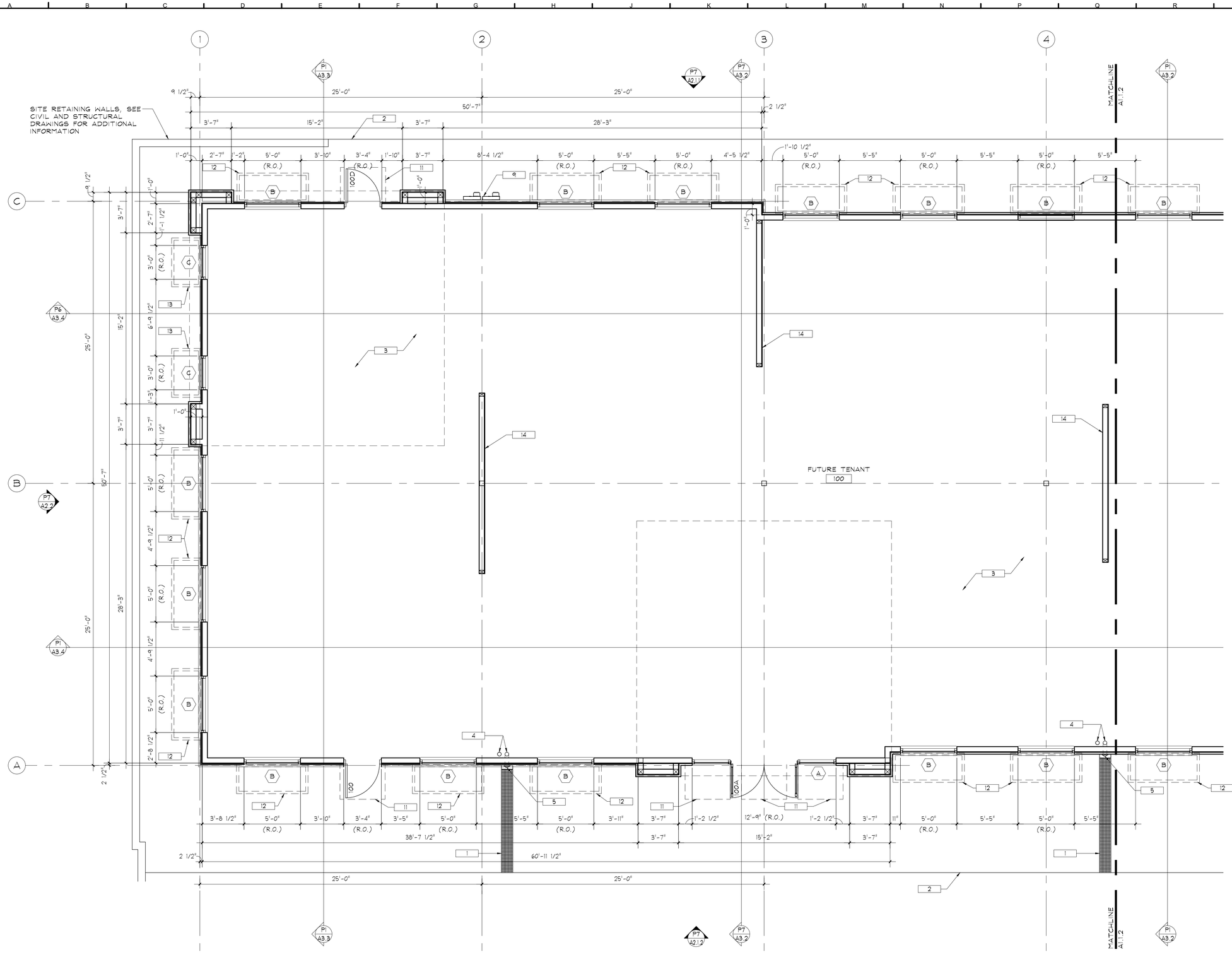
OVERALL FLOOR PLAN

STATE OF COLORADO
PAUL J. BATTISTA
B-3015
02/11/2025
LICENSED ARCHITECT

Designed: PJB	Project Number: SVA2025
Drawn: IJF	Scale: As Shown
Checked: PJB	Drawing Number: A1.1
Reviewed: PJB	
Date: Feb., 2025	of

NORTH

P1	OVERALL FLOOR PLAN
1/8" = 1'-0"	



NOTES:

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3. SEE MEP DRAWINGS FOR ADDITIONAL INFORMATION.

KEYNOTES: (THIS SHEET ONLY)

1	SIDEWALK TRENCH
2	CONCRETE SIDEWALK
3	CONCRETE SLAB ON GRADE, SEE STRUCTURAL
4	ROOF AND OVERFLOW DRAIN LEADERS
5	BRASS LAMB'S TONGUE
6	DOMESTIC WATER
7	FIRE RISER
8	ROOF ACCESS AND LADDER RE: K8/A5.3
9	ELECTRICAL GEAR AND METERS
10	NATURAL GAS
11	AWNING STRUCTURE ABOVE, TYPE 1 SEE SHEET A1.4
12	AWNING STRUCTURE ABOVE, TYPE 2 SEE SHEET A1.4
13	AWNING STRUCTURE ABOVE, TYPE 2A SEE SHEET A1.4
14	SHEARWALL, RE: STRUCTURAL FOR ADDITIONAL INFO.

FIRE BLOCKING REQUIRED

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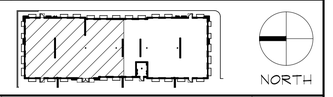
7. THE INTEGRITY OF ALL FIRE BLOCKING, AND DRAFT STOPS, SHALL BE MAINTAINED.

Plan Legend:

1 HR PARTITION

Key Plan:



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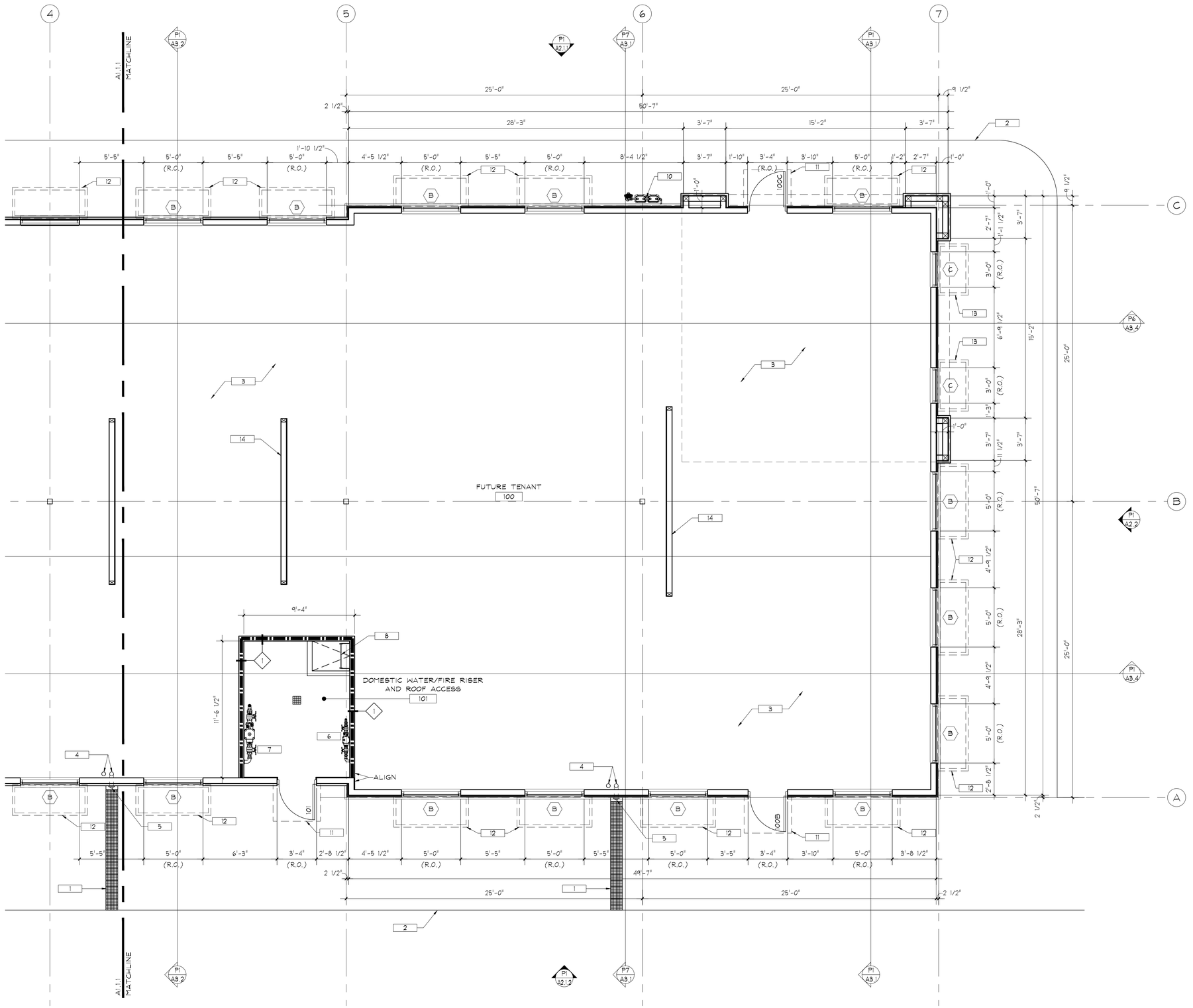
FLOOR PLAN - NORTH

Designed: PJB	Project Number: SVA2025
Drawn: IJF	Scale: As Shown
Checked: PJB	Drawing Number: A1.1.1
Reviewed: PJB	
Date: Feb., 2025	of

STATE OF COLORADO ★ PAUL J. BATTISTA B-3015 02/11/2025 ★ LICENSED ARCHITECT

P1 FLOOR PLAN - NORTH
1/4" = 1'-0"



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KEYNOTES: (THIS SHEET ONLY)

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2	CONCRETE SIDEWALK
3	CONCRETE SLAB ON GRADE, SEE STRUCTURAL
4	ROOF AND OVERFLOW DRAIN LEADERS
5	BRASS LAMB'S TONGUE
6	DOMESTIC WATER
7	FIRE RISER
8	ROOF ACCESS AND LADDER RE: K8/A5.3
9	ELECTRICAL GEAR AND METERS
10	NATURAL GAS
11	AWNING STRUCTURE ABOVE, TYPE 1 SEE SHEET A1.4
12	AWNING STRUCTURE ABOVE, TYPE 2 SEE SHEET A1.4
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14	SHEARWALL, RE: STRUCTURAL FOR ADDITIONAL INFO.

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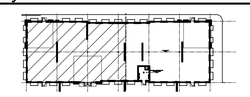
Plan Legend:

1 HR PARTITION

Key Plan:



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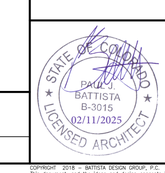
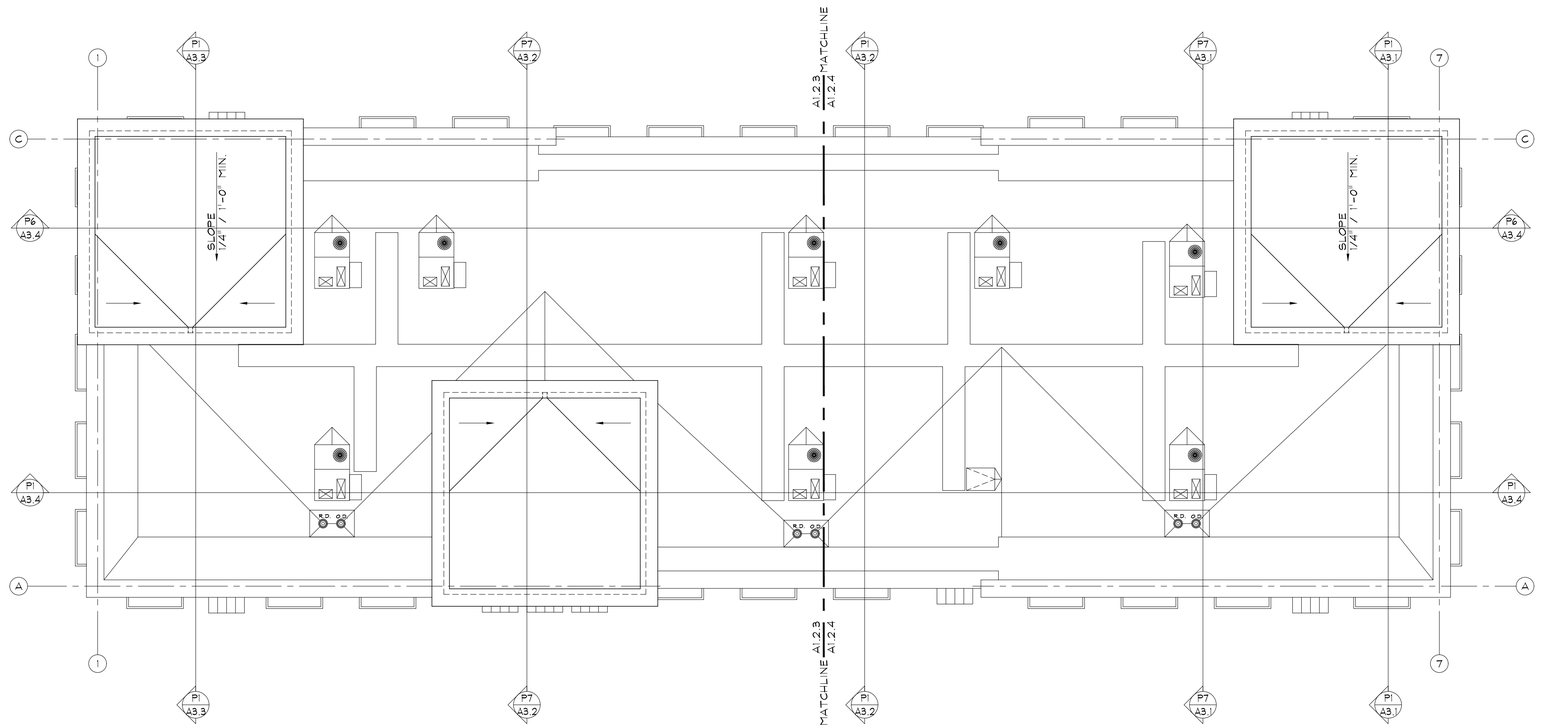
FLOOR PLAN - SOUTH



Designed: PJB	Project Number: SVA2025
Drawn: IJF	Scale: As Shown
Checked: PJB	Drawing Number: A1.1.2
Reviewed: PJB	
Date: Feb., 2025	of

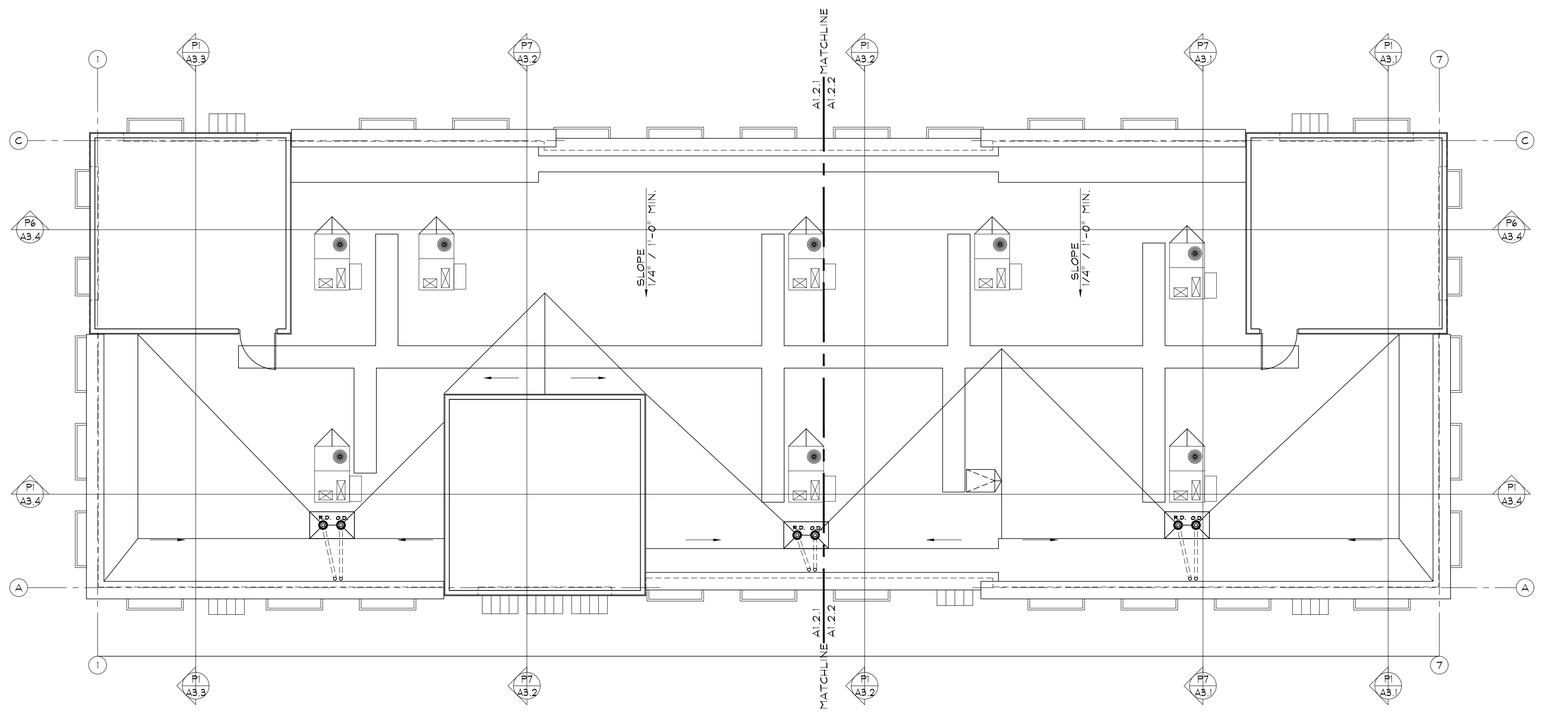
P1 — FLOOR PLAN - SOUTH

1/4" = 1'-0"



NORTH

P7	OVERALL UPPER ROOF PLAN
1/8" = 1'-0"	



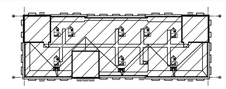
NORTH

P1	OVERALL ROOF AND TOWER PLAN
1/8" = 1'-0"	

NOTES:

1. SEE SHEETS A1.2.1, A1.2.2, A1.2.3 AND A1.2.4 FOR KEYNOTES AND ADDITIONAL INFORMATION.

Key Plan:



NORTH

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DESIGN GROUP

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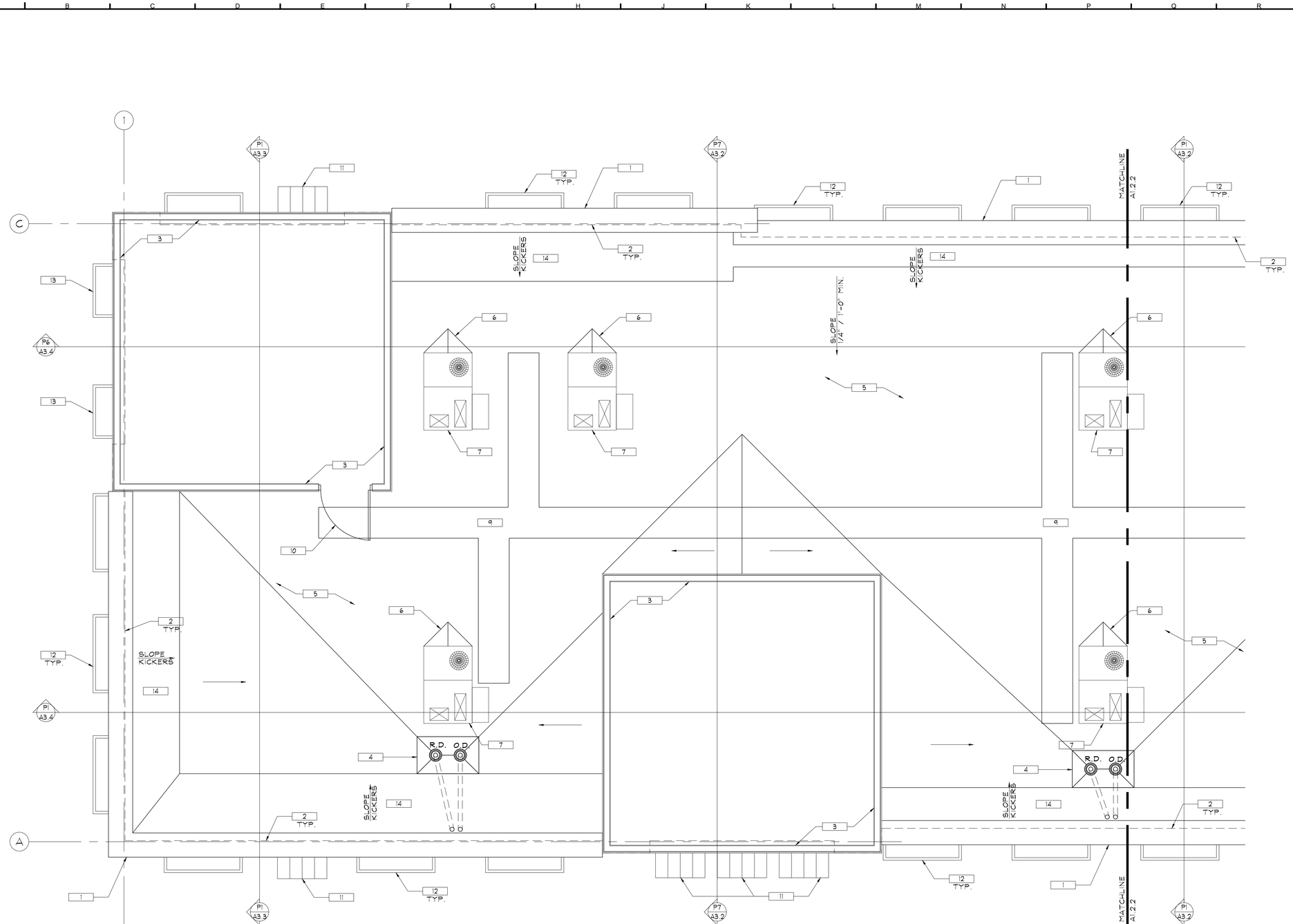
OVERALL ROOF AND TOWER PLAN
AND UPPER ROOF PLAN

STATE OF COLORADO
PAUL J. BATTISTA
B-3015
02/11/2025
LICENSED ARCHITECT

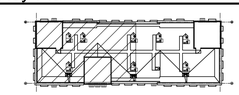
Designed: PJB	Project Number: SVA2025
Drawn: IJF	Scale: As Shown
Checked: PJB	Drawing Number: A1.2
Reviewed: PJB	
Date: Feb., 2025	of



KEYNOTES: (THIS SHEET ONLY)

1	PREFINISHED METAL CAP FLASHING
2	LINE OF WALL BELOW
3	TOWER WALL FRAMING, SEE SECTIONS AND WALL SECTIONS FOR ADDITIONAL INFO.
4	ROOF AND OVERFLOW DRAIN, RE: K1/A5.3
5	60 MIL TPO ROOFING ON 1/2" UNDERLAYMENT ON 6" R-40± POLYISO ROOF INSULATION. SEE SHEET A1.3 FOR ADDITIONAL ROOFING INFO
6	POLYISO DRAINAGE CRICKETS UNDER TPO ROOFING
7	APPROXIMATE LOCATIONS OF RTU'S -SEE M AND S SHEETS
8	ROOF ACCESS HATCH ON CURB THIS GENERAL AREA,COORDINATE WITH ARCHITECT ON LOCATION, RE: A6/A5.3
9	TPO WALK-PADS, 30" WIDE x REQUIRED LENGTH. INSTALL WITH TENANT FINISH IN CONJUNCTION WITH RTU LOCATION
10	4'-0" X 4'-0" INSULATED METAL ACCESS PANEL
11	AWNING STRUCTURE BELOW, TYPE 1 SEE SHEET A1.4
12	AWNING STRUCTURE BELOW, TYPE 2 SEE SHEET A1.4
13	AWNING STRUCTURE BELOW, TYPE 2 SEE SHEET A1.4
14	TPO ROOFING OVER KICKERS

Key Plan:



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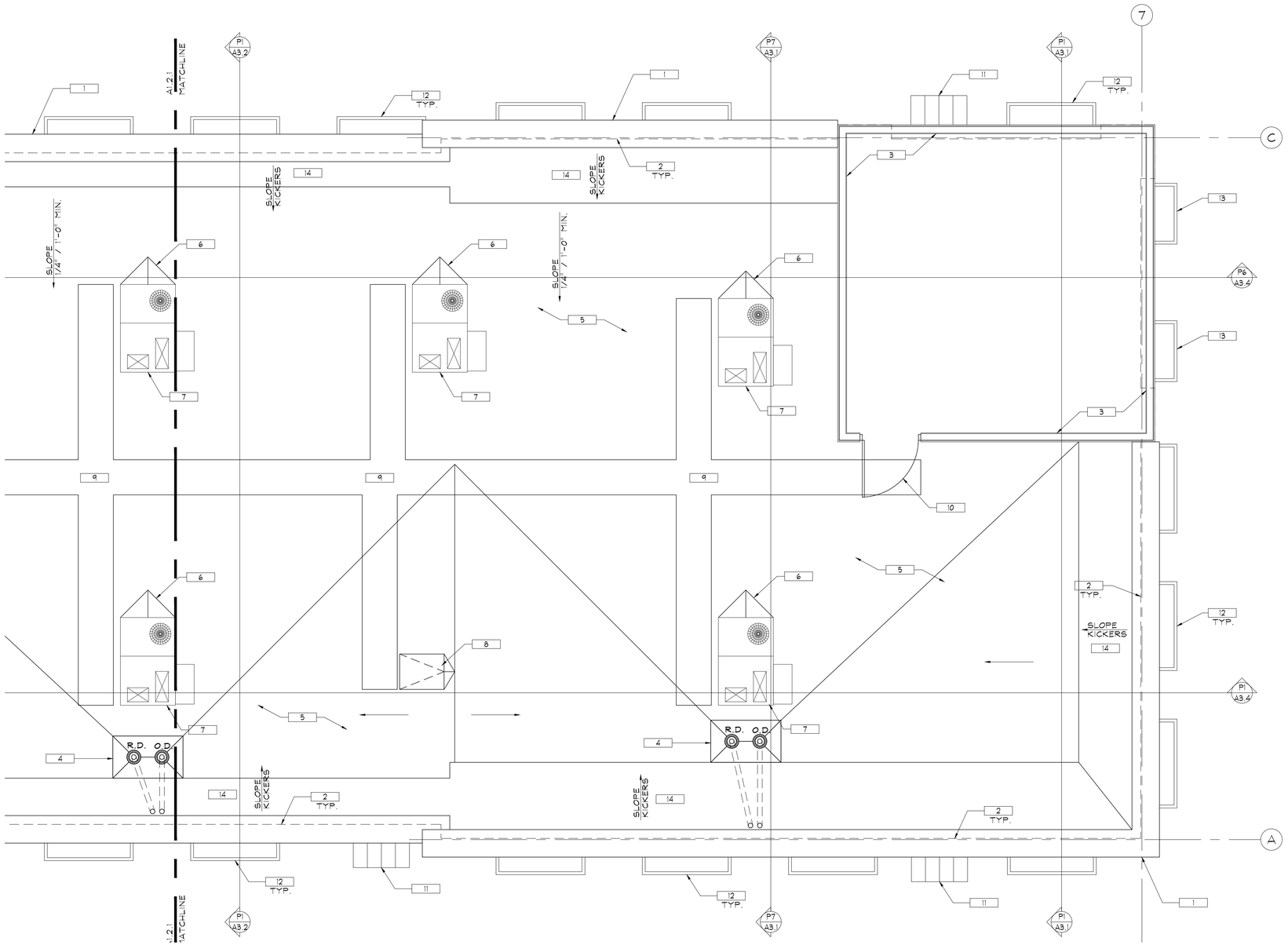
ROOF AND TOWER PLAN - NORTH

P1	ROOF AND TOWER PLAN - NORTH
1/4" = 1'-0"	

Designed: PJB	Project Number: SVA2025
Drawn: IJF	Scale: As Shown
Checked: PJB	Drawing Number: A1.2.1
Reviewed: PJB	
Date: Feb., 2025	of

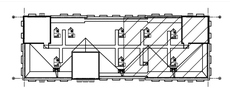
STATE OF COLORADO — PAUL J. BATTISTA B-3015 — 02/11/2025 — LICENSED ARCHITECT



KEYNOTES: (THIS SHEET ONLY)

1	PREFINISHED METAL CAP FLASHING
2	LINE OF WALL BELOW
3	TOWER WALL FRAMING, SEE SECTIONS AND WALL SECTIONS FOR ADDITIONAL INFO.
4	ROOF AND OVERFLOW DRAIN, RE: K1/A5.3
5	60 MIL TPO ROOFING ON 1/2" UNDERLAYMENT ON 6" R-40± POLYISO ROOF INSULATION. SEE SHEET A1.3 FOR ADDITIONAL ROOFING INFO
6	POLYISO DRAINAGE CRICKETS UNDER TPO ROOFING
7	APPROXIMATE LOCATIONS OF RTU'S -SEE M AND S SHEETS
8	ROOF ACCESS HATCH ON CURB THIS GENERAL AREA,COORDINATE WITH ARCHITECT ON LOCATION, RE: A6/A5.3
9	TPO WALK-PADS, 30" WIDE x REQUIRED LENGTH. INSTALL WITH TENANT FINISH IN CONJUNCTION WITH RTU LOCATION
10	4'-0" X 4'-0" INSULATED METAL ACCESS PANEL
11	AWNING STRUCTURE BELOW, TYPE 1 SEE SHEET A1.4
12	AWNING STRUCTURE BELOW, TYPE 2 SEE SHEET A1.4
13	AWNING STRUCTURE BELOW, TYPE 2 SEE SHEET A1.4
14	TPO ROOFING OVER KICKERS

Key Plan:



No	Revision / Submissions	Date

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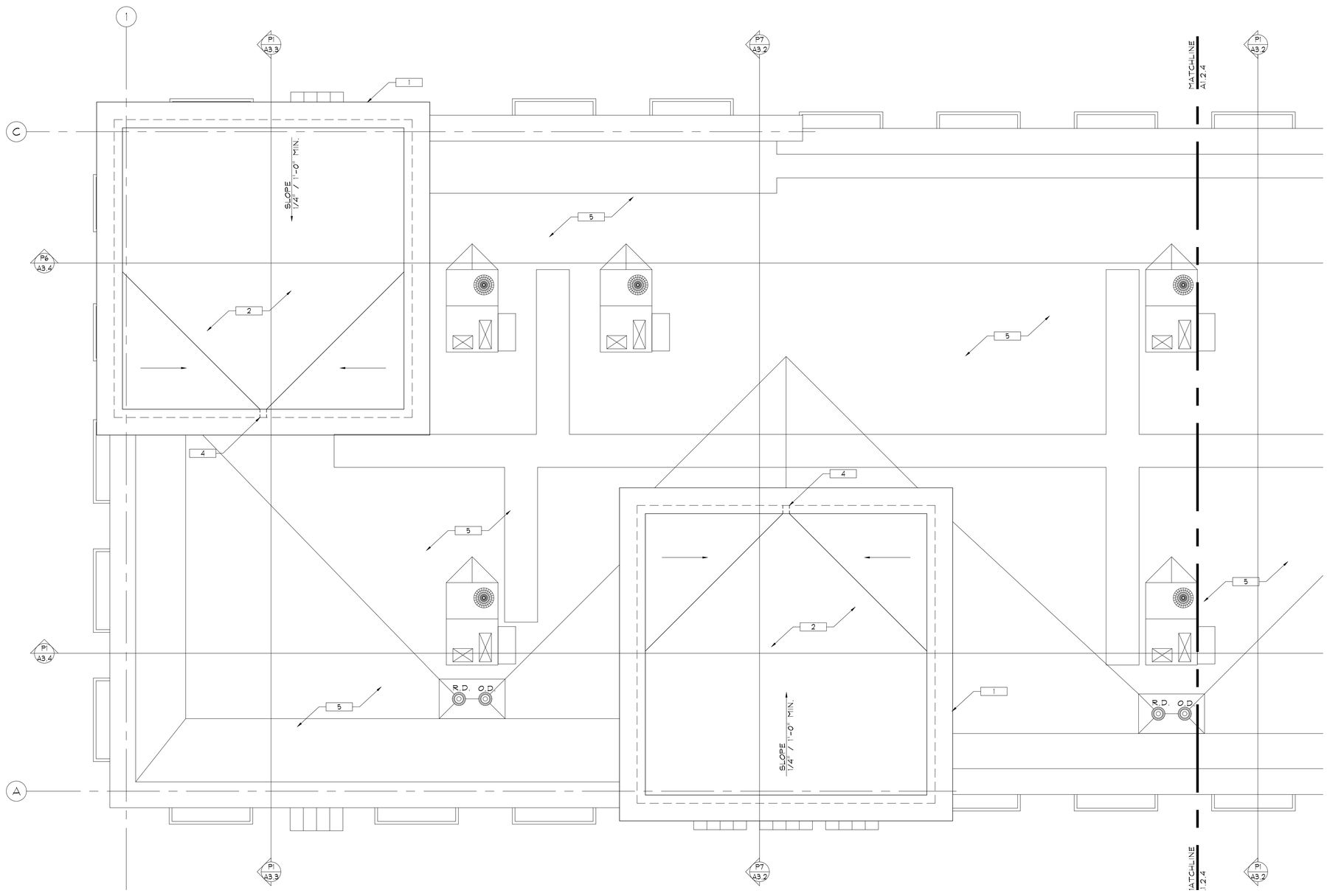
ROOF AND TOWER PLAN - SOUTH

NORTH

P1	ROOF AND TOWER PLAN - SOUTH
1/4" = 1'-0"	

STATE OF COLORADO · PAUL J. BATTISTA B-3015 02/11/2025 · LICENSED ARCHITECT

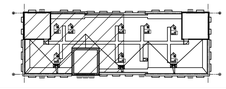
Designed: PJB	Project Number: SVA2025
Drawn: IJF	Scale: As Shown
Checked: PJB	Drawing Number: A1.2.2
Reviewed: PJB	
Date: Feb., 2025	of



KEYNOTES: (THIS SHEET ONLY)

1	PREFINISHED METAL CAP FLASHING
2	60 MIL TPO ROOFING ON 1/2" UNDERLAYMENT ON 6" R-40± POLYISO ROOF INSULATION. SEE SHEET A1.3 FOR ADDITIONAL ROOFING INFO
3	BUILT-UP POLYISO INSULATION UNDER TPO ROOFING, SLOPE MINIMUM 1/4" PER FOOT TO METAL THRU-WALL SCUPPER
4	METAL THRU-WALL SCUPPER SEE, H11/A5.2
5	SEE SHEETS A1.2.1 AND A1.2.2 FOR MAIN ROOF INFORMATION

Key Plan:



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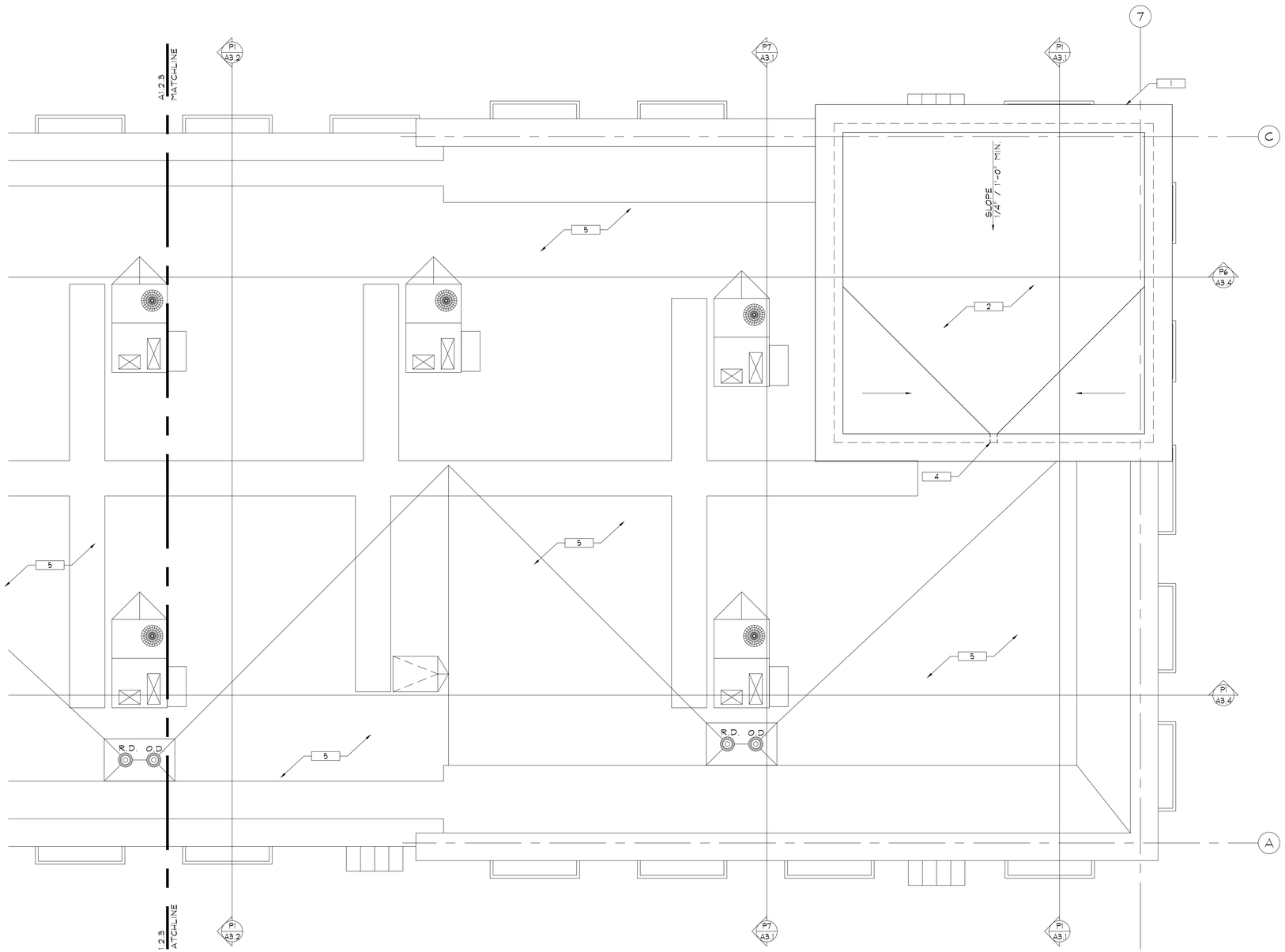
UPPER ROOF PLAN - NORTH

STATE OF COLORADO
PAUL J. BATTISTA
B-3015
02/11/2025
LICENSED ARCHITECT

Designed: PJB	Project Number: SVA2025
Drawn: IJF	Scale: As Shown
Checked: PJB	Drawing Number: A1.2.3
Reviewed: PJB	
Date: Feb., 2025	of

NORTH

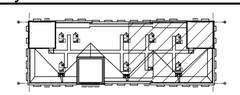
P1	UPPER ROOF PLAN - NORTH
1/4" = 1'-0"	



KEYNOTES: (THIS SHEET ONLY)

1. PREFINISHED METAL CAP FLASHING
2. 60 MIL TPO ROOFING ON 1/2" UNDERLAYMENT ON 6" R-40± POLYISO ROOF INSULATION. SEE SHEET A1.3 FOR ADDITIONAL ROOFING INFO
3. BUILT-UP POLYISO INSULATION UNDER TPO ROOFING, SLOPE MINIMUM 1/4" PER FOOT TO METAL THRU-WALL SCUPPER
4. METAL THRU-WALL SCUPPER SEE, H11/A5.2
5. SEE SHEETS A1.2.1 AND A1.2.2 FOR MAIN ROOF INFORMATION

Key Plan:



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UPPER ROOF PLAN - SOUTH

STATE OF COLORADO · PAUL J. BATTISTA · B-3015 · 02/11/2025 · LICENSED ARCHITECT

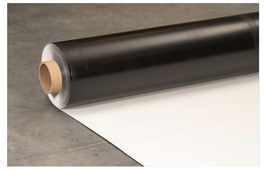
Designed: PJB	Project Number: SVA2025
Drawn: IJF	Scale: As Shown
Checked: PJB	Drawing Number: A1.2.4
Reviewed: PJB	
Date: Feb., 2025	of

NORTH

P1	UPPER ROOF PLAN - SOUTH
1/4" = 1'-0"	

TECHNICAL DATA BULLETIN

VersiWeld® TPO Reinforced Membrane



Overview

Versico's VersiWeld TPO reinforced membrane is a premium, heat-weldable, single-ply thermoplastic polyolefin (TPO) sheet designed for new roof construction and re-roofing applications. VersiWeld High Slope (HS) membrane is formulated with additional flame retardant for higher-slope fire code approvals. VersiWeld Plus is 80 mils (2.03 mm) thick for significantly higher strength and weatherability.

VersiWeld TPO membranes use advanced polymerization technology that combines the flexibility of ethylene-propylene (EP) rubber with the heat weldability of polypropylene. All VersiWeld TPO membranes include OctaGuard XT™, an industry-leading, state-of-the-art weathering package. OctaGuard XT technology enables VersiWeld TPO to withstand the extreme weatherability testing that is intended to simulate exposure to severe climates.

Physical properties of the membrane are enhanced by a strong polyester fabric that is encapsulated between the TPO-based top and bottom plies. The combination of the fabric and TPO plies provides high breaking and tearing strength, as well as excellent puncture resistance. The relatively smooth surface of the membrane produces a total surface fusion weld that results in a consistent, watertight, monolithic roof assembly. The membrane is environmentally friendly and safe to install.

Features and Benefits

- VersiWeld TPO available in 4-, and 6-ft (121.92 cm and 182.88 cm) perimeter sheets and 8-, 10-, and 12-ft (243.84 cm, 304.80 cm, and 365.76 cm) VersiWeld field sheets*
- Outstanding puncture resistance
- Excellent fire resistant assemblies
- Environmentally friendly and stable formulation
- Excellent resistance to impact and low temperatures
- Excellent chemical resistance to acids, bases and restaurant exhaust emissions
- UL 2218 Class 4 hail rating
- Exceptional resistance to heat, solar UV, ozone and oxidation
- Manufactured using a hot-melt extrusion process for complete scrim encapsulation
- Enhanced with the OctaGuard XT weathering package
- Standard Colors:

White Gray Tan

- Special Colors:

Slate Gray Med Bronze Terra Cotta Patina Green Rock Brown

* VersiWeld HS Special Color TPO membranes are available in limited sizes. Refer to Versico's VersiWeld HS TPO Special Color Program Sell Sheet for details.

Sustainable Attributes

Versico Roofing Systems' focus has always been innovation – innovation to solve problems, improve performance, reduce labor, and above all, improve sustainability. Versico is committed to driving sustainable and efficient processes in the design and manufacturing of our products.

- Up to 10% pre-consumer recycled content
- Fully recyclable when used in mechanically attached systems
- 3rd-party verified Environmental Product Declaration available
- NSF P151 certification for rainwater catchment*
- California Title 24 compliant**
- Free of Living Building Challenge red list chemicals

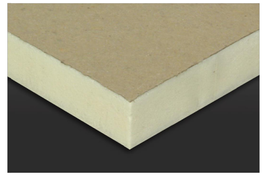
* White only, produced in Tooele, UT
** White and Tan only

VERSICO ROOFING SYSTEMS

BUILDING VALUE

TECHNICAL DATA BULLETIN

VersiCore® Polyiso



Overview

VersiCore is a rigid-roof insulation panel composed of a closed-cell polyisocyanurate foam core bonded on each side to glass-reinforced felt (GRF).

Features and Benefits

- VersiCore polyiso insulation provides the highest R-value per inch of commercially available insulation products
- Zero ozone-depleting components, HFC- and HCFC-free formulation
- Approved for direct application to steel decks

Panel Characteristics

- Available in 4' x 4' (1220 mm x 1220 mm) and 4' x 8' (1220 mm x 2440 mm) panels in thickness of ½" (13 mm) to 4.5" (115 mm)

Applications

- Single-Ply Roof Systems (Ballasted, Mechanically Attached, Fully Adhered)

Installation

Ballasted Single-Ply Systems
Each VersiCore panel is loosely laid on the roof deck. Butt edges and stagger joints of adjacent panels. Install the roof membrane according to Versico's specifications.

Mechanically Attached Single-Ply Systems
VersiCore panels must be secured to the roof deck with fasteners and plates (appropriate to the deck type). Butt edges and stagger joints of adjacent panels. Install the roof membrane according to Versico's specifications.

Fully Adhered Single-Ply Systems
VersiCore panels must be secured to the roof deck with fasteners and plates (appropriate to deck type). Butt edges and stagger joints of adjacent panels. Install the roof membrane according to Versico's specifications.

VersiCore 4' x 8' panels can be secured to the roof deck with Versico's Flexible DASH® Adhesive, either full coverage or bead spacing.

VersiCore 4' x 4' panels may be adhered to prepared concrete deck with a full mopping of Type III or IV asphalt.

REVIEW CURRENT VERSICO SPECIFICATIONS AND DETAILS FOR SPECIFIC INSTALLATION REQUIREMENTS.

Codes and Compliances

- ASTM C1289, Type II, Class 1, Grade 2 (20 psi), Grade 3 (25 psi)
- International Building Code (IBC) Section 2603
- UL Standard 790, 263 and 1256: Component of Class A Roof Systems (refer to UL Roof Materials' system directory)
- FM® Standards 4450/4470: Class 1 approval for steel roof-deck constructions (refer to FM RoofNav℠)
- California Code of Regulations, Title 24, Insulation Quality Standard License #TI-1418
- Third-party certification with the PIMA Quality Mark for Long-Term Thermal Resistance (LTTR) values
- CAN/ULC S704, Type 2, Class 3 (20 psi), Type 3, Class 3 (25 psi)
- Florida Building Code Approval
- CDPH compliant for maximum allowable concentrations of target VOCs

Precautions

Insulation must be protected from open flame and kept dry at all times. Install only as much insulation as can be covered the same day by completed roof-covering material. Protect installed product from excessive foot traffic. Versico will not be responsible for specific building and roof design by others, for deficiencies in construction or workmanship, for dangerous conditions on the job site or for improper storage and handling. Technical specifications shown in this literature are intended to be used as general guidelines only and are subject to change without notice. Call Versico for more specific details, or refer to PIMA Technical Bulletin No. 109: Storage & Handling Recommendations for Polyiso Roof Insulation.

VERSICO ROOFING SYSTEMS

BUILDING VALUE

TECHNICAL DATA BULLETIN

Weathered Membrane Cleaner

Overview

Let Versico simplify your next EPDM or TPO installation with Weathered Membrane Cleaner. Weathered Membrane Cleaner is used to clean both new and in-service VersiGard® EPDM black and white membrane and VersiWeld® TPO membrane prior to the seaming process. It helps to loosen and remove dirt and other contaminants from the surface of the EPDM and TPO membranes and leaves a suitable surface for welding or the subsequent application of primer. Weathered Membrane Cleaner should be used when preparing EPDM membranes for application of primer, adhesives, QA Seam Tape and flashing. Do not use Weathered Membrane Cleaner on PVC membranes – instead use PVC Membrane Cleaner.

Features and Benefits

- Easily removes dirt and other contaminants from EPDM and TPO membranes
- Prepares EPDM membrane for application of primer, adhesives and tape
- Prepares aged or contaminated TPO membrane for welding

Coverage Rate

Coverage rate depends on the age of the membrane and the amount of dirt/debris on the surface. Assume 400 ft² (37 m²) (one surface) per gallon.

Application

EPDM

1. Remove as much loose material as possible from the membrane surface where the adhesive or pressure-sensitive product will be applied by brooming or wiping the area with a dry rag. Extreme conditions of accumulated dirt may require a low sudsing detergent and water cleaning (rinse area thoroughly with CLEAN water and allow to dry).
2. Saturate a clean Splice Wipe (or equivalent) with Weathered Membrane Cleaner. SCRUB the area in a circular motion. Continue to clean the area, changing wipes frequently, until the surface is a consistent color with no streaking. Additional cleaning is required at factory seams (scrub parallel to the seam). Allow to dry.
3. Apply primer according to product instructions and/or roofing system specification.

TPO

Weathered Membrane Cleaner may be used to remove construction dirt or to prepare aged TPO membrane prior to welding.

New TPO

1. Saturate a clean Splice Wipe (or equivalent) with Weathered Membrane Cleaner.
2. Wipe the area to be cleaned until the membrane is a consistent color with no streaking and allow to dry.
3. Weld the cleaned material together with an appropriate hot-air welder.

Welding Aged Material

1. Using a Primer Pad and Weathered Membrane Cleaner, scrub the area to be welded. (The cleaner will become white with membrane residue during this step of the procedure.)
2. Clean all residue from the area to be welded with a Splice Wipe (or equivalent). Allow to dry.
3. Weld the cleaned material together with an appropriate hot-air welder.

REVIEW CURRENT VERSICO SPECIFICATIONS AND DETAILS FOR SPECIFIC APPLICATION REQUIREMENTS.

VERSICO ROOFING SYSTEMS

BUILDING VALUE

TECHNICAL DATA BULLETIN

VersiWeld® TPO Primer

Overview

Versico's TPO Primer is a high-solids-content, clear (translucent color), polymer-based splice primer used to prepare TPO membrane for improved adhesion to pressure-sensitive (PS) TPO accessories.

Features and Benefits

- One-step primer allows for excellent adhesion of PS TPO accessories to TPO membrane
- Quick flash-off time for faster installation

Coverage Rates

200–250 ft² (19–24 m²) (one surface) per gallon

Application

1. Thoroughly stir this product until all settled pigment is blended into the solution. Solids suspended in TPO Primer tend to settle; stir or agitate the solution frequently during use.
2. The surface to which the TPO Primer is being applied should be dry and clean. TPO membrane can be cleaned with Weathered Membrane Cleaner prior to primer application.
3. Apply TPO Primer using a paintbrush or medium-nap paint roller. The membrane surface should be uniform in color with no streaking or puddling. Apply primer to a wider area than the actual splice area to ensure complete coverage.
4. Allow primer to flash off completely before applying PS TPO accessories. Drying conditions will vary depending on ambient air conditions.

REVIEW CURRENT VERSICO SPECIFICATIONS AND DETAILS FOR SPECIFIC APPLICATION REQUIREMENTS.

Precautions

- WARNING! HARMFUL IF SWALLOWED. FLAMMABLE LIQUID. MAY BE IRRITATING TO SKIN AND EYES.
- Wash thoroughly after handling. Avoid contact with eyes, skin and clothing. Use of permeation-resistant gloves (that meet ANSI/ISEA 105-2005) and safety glasses recommended. Keep away from heat, sparks, motors and open flame. DO NOT SMOKE WHILE USING. Keep lid closed when not in use.
- If swallowed, DO NOT INDUCE VOMITING. Call physician immediately. In case of eye contact, flush with water for at least 15 minutes. In case of skin contact, wash with soap and water. If irritation develops, call physician.
- In case of fire, handle as a solvent or gasoline fire. Use dry chemical, carbon dioxide or foam fire extinguishers. Water fog or spray may be used to smother the fire and cool containers. Do not use a solid stream of water to fight fire because it can scatter and spread the fire.
- Use TPO Primer full strength. Do not thin. Thinning will affect performance.
- Jobsite storage temperatures in excess of 90°F (32°C) may affect product shelf life. Should the primer be stored at temperatures lower than 60°F (15°C), restore to room temperature prior to use.
- KEEP OUT OF THE REACH OF CHILDREN.
- REVIEW THE MATERIAL SAFETY DATA SHEET FOR COMPLETE SAFETY INFORMATION PRIOR TO USE.

VERSICO ROOFING SYSTEMS

BUILDING VALUE

TECHNICAL DATA BULLETIN

VersiWeld® Bonding Adhesive

Overview

VersiWeld Bonding Adhesive is a high-strength solvent-based contact adhesive that allows bonding of VersiWeld TPO membrane to various porous and non-porous substrates.

Features and Benefits

- Solvent-based bonding adhesive that allows for quick drying
- Can be roller-applied with medium nap roller
- Provides excellent adhesion to various substrates

Coverage Rate

60 sq. ft. (5.6 m²) per gallon finished surface. Coverage rates are average and may vary due to conditions on the jobsite. Porous surfaces and substrates may require more bonding adhesive than the typical coverage rate.

Mixing

Stir thoroughly until all settled pigments are dispersed and the adhesive is uniform in color. Minimum 5 minutes stirring is recommended.

Application

1. The surface, on or against which adhesive is to be applied, shall be clean, smooth, dry, free of fins, sharp edges, loose and foreign materials, oil and grease. Depressions greater then ¼" (6 mm) should be feathered, using epoxy, mortar or other approved patching material. All sharp projections shall be removed by sweeping, blowing or vacuum cleaning.
2. After thorough stirring (minimum 5 minutes), apply VersiWeld Bonding Adhesive to substrate and membrane using a 9" (23 mm) medium nap roller. Application shall be continuous and uniform avoiding globs or puddles. An open time of 5 to 50 minutes, based on drying conditions is recommended before assembly. VersiWeld Bonding Adhesive must be allowed to dry until it does not string or stick to a dry finger touch. Any coated area which has been exposed to rain should be allowed to dry and then recoated. Do not apply adhesive to splice areas to be hot-air welded.
3. Roll the membrane onto the adhesive coated substrate while avoiding wrinkles. Immediately brush down the bonded portion of the sheet with a soft bristle push broom or a 150 lb. segmented roller to achieve maximum contact.

REVIEW CURRENT VERSICO SPECIFICATIONS AND DETAILS FOR SPECIFIC APPLICATION REQUIREMENTS.

Precautions

1. Review the applicable Safety Data Sheet for complete safety information prior to use.
2. VersiWeld Bonding Adhesive is EXTREMELY FLAMMABLE. It contains solvents that are dangerous fire and explosion hazards when exposed to heat, flame or sparks. Do not smoke while applying. Do not use in a confined or unventilated area. Vapors are heavier than air and may travel along ground or may be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electrical motors, static discharge, or other ignition sources at locations distant from material handling point and flashback. All containers should be grounded when material is transferred from one container to another. A red caution label is required when shipping. A fire extinguisher should be available. In case of fire, use water spray, foam, dry chemical or carbon dioxide. Do not use a solid stream of water because it can scatter and spread the fire.
3. Avoid breathing vapors. Keep container closed when not in use. Use with adequate ventilation. If inhaled, remove to fresh air. If not breathing, perform artificial respiration. If breathing is difficult, give oxygen. Call a physician immediately. During application, efforts must be made to prevent fumes from entering the building via air ventilation ducts. Do not place open containers or mix adhesive near fresh air intake units. When possible, shut down or seal off the closest units.

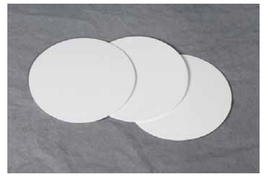
VERSICO ROOFING SYSTEMS

BUILDING VALUE

TECHNICAL DATA BULLETIN

VersiWeld® TPO T-Joint Covers

Certified Fabricated Accessory



Overview

Let Versico simplify your next VersiWeld TPO installation with pre-punched T-Joint Covers. VersiWeld TPO T-Joint Covers are used to seal step-offs at splice intersections. T-Joint Covers are mandatory on all 60- and 80-mil TPO systems and on 45-mil systems where step-offs have not been properly sealed. VersiWeld TPO T-Joint Covers consist of 60-mil non-reinforced flashing punched into a perfect 4.5"-diameter circle and packaged 100 parts per carton. Available in white, tan and gray.

Versico's VersiWeld TPO T-Joint Covers are part of the Certified Fabricated Accessory (CFA) Program. Certified Fabricated Accessories are the only factory-fabricated accessories that meet the stringent quality tolerances required to be included in a Versico warranted roofing system.

Features and Benefits

- Every T-Joint cover is a perfect 4.5"-diameter circle
- More consistent appearance than hand-cut flashing
- Provides substantial labor savings compared to field- cut flashing
- Seals channels at splice intersections created by seam step-offs

Installation

1. If membrane has been exposed to the weather, clean splice intersection area with Weathered Membrane Cleaner.
2. Use a lower temperature setting on the hand heat welder than is used when welding reinforced TPO membrane. (Typically a setting of 6 on a scale of 10 is appropriate for welding TPO T-Joint Covers.)
3. Center the T-Joint Cover over the splice intersection, begin welding at the center point and work towards the outside. Use the edge of the roller to crease the T-Joint Cover into membrane step-offs to achieve a proper seal.
4. Using a probe, check all splices for voids and cold- welds only once the T-Joint Cover has completely cooled. Make any needed repairs.

REVIEW CURRENT VERSICO SPECIFICATIONS AND DETAILS FOR SPECIFIC INSTALLATION REQUIREMENTS.

Precautions

- The TPO T-Joint Cover is not intended to overlay fasteners and plates as this requires the use of reinforced membrane.
- Store T-Joint Covers in a cool, shaded area and cover with light-colored, breathable, waterproof tarpaulins. T-Joint Covers that have been exposed to the weather must be prepared with Weathered Membrane Cleaner before hot-air welding.

Typical Properties and Characteristics

Size	4.5" (114 mm)
Thickness	0.060" (1.5 mm)
Packaging	100 per box
Weight (per box)	3.5 lbs. (1.6 kg)
Material	Non-Reinforced TPO
Color	White, Gray, Tan

Typical properties and characteristics are based on samples tested and are not guaranteed for all samples of this product. This data and information is intended as a guide and does not reflect the specification range for any particular property of this product.

LEED® Information

Pre-consumer Recycled Content	0%
Post-consumer Recycled Content	0%
Manufacturing Location	Bloomingdale, IL
Solar Reflectance Index (SRI)	N/A

VERSICO ROOFING SYSTEMS

A SINGLE SOURCE FOR SINGLE-PLY ROOFING
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TECHNICAL DATA BULLETIN

VERSIWELD TPO INSIDE CORNERS

Certified Fabricated Accessory

Overview

Let Versico simplify your next VersiWeld TPO installation with prefabricated Inside Corners. TPO Inside Corners are pre-molded and are used for flashing inside corners on a variety of details. Installation is fast and easy with no cutting or stretching required.

Versico's TPO Inside Corners are part of the Certified Fabricated Accessory (CFA) Program. Certified Fabricated Accessories are the only factory-fabricated TPO accessories that meet the stringent quality tolerances required to be included in a Versico warranted roofing system.

Features and Benefits

- Forms easily into "out-of-square" corners that are not exactly 90°
- Provide substantial labor savings compared to field fabricating the flashing detail from non-reinforced flashing
- More consistent appearance than inside corners field-fabricated from flashing

Installation

1. Position the TPO Inside Corner into the building corner, begin welding at the innermost corner point and work away from the corner.
2. Use a lower temperature setting on the heat welder than when welding reinforced TPO membrane. (Typically a setting of 6 on a scale of 10 is appropriate for welding TPO Inside Corners).
3. Use the edge of the roller to crease the corner flashing into any membrane step-off to create a proper seal.
4. Probe all welded edges of the corner only once the material has completely cooled to ensure watertight performance.

REVIEW CURRENT VERSICO SPECIFICATIONS AND DETAILS FOR SPECIFIC INSTALLATION REQUIREMENTS.

Precautions

Store TPO Inside Corners in a cool, shaded area and cover with light-colored, breathable,waterproof tarpaulins. TPO Inside Corners or TPO membrane that has been exposed to the weather prior to use must be prepared with Weathered Membrane Cleaner before hot air welding.

TYPICAL PROPERTIES AND CHARACTERISTICS

Thickness	0.060" (1.5 mm)
Packaging	12 per bag
Color	White, Gray, Tan
Material	Injection-molded TPO

Typical properties and characteristics are based on samples tested and are not guaranteed for all samples of this product. This data and information is intended as a guide and does not reflect the specification range for any particular property of this product.

LEED® INFORMATION

Pre-consumer Recycled Content	0%
Post-consumer Recycled Content	0%
Manufacturing Location	Bloomingdale, IL
Solar Refl ectance Index (SRI)	N/A

VERSICO

A SINGLE SOURCE FOR SINGLE-PLY ROOFING

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No	Revision / Submissions	Date

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TPO ROOF MEMBRANE
DETAILS

STATE OF COLORADO PAUL J. BATTISTA B-3015 02/11/2025 LICENSED ARCHITECT

Designed: PJB	Project Number: SVA2025
Drawn: IJF	Scale: As Shown
Checked: PJB	Drawing Number: A1.3
Reviewed: PJB	
Date: Feb., 2025	of

VERSICO'S VERSIWELD® OUTSIDE CORNERS

Certified Fabricated Accessory

Overview

Let Versico simplify your next VersiWeld TPO installation with their prefabricated Outside Corners. VersiWeld TPO Outside Comers are pre-molded and are used for flashing outside corners on a variety of details. Installation is fast and easy with no cutting or stretching required.

Versico's VersiWeld TPO Outside Corners are part of the Certified Fabricated Accessory (CFA) Program. Certified Fabricated Accessories are the only factory-fabricated accessories that meet the stringent quality tolerances required to be included in a Versico warranted roofing system.

Intended Uses

VersiWeld TPO Outside Corners are used for flashing outside corners on a variety of details.

Features and Benefits

- Provide a substantial labor savings compared to field fabricating from non-reinforced flashing
- Pre-stretched, multi-wave design allows wrapping outside corners that are out of square and not exactly 90 degrees
- More consistent appearance than outside corners field-fabricated from flashing

Installation

1. Place the center point of the VersiWeld Outside Corner over the outside intersection of the corner.
2. Begin welding at the innermost center point and work away from the center by first welding the vertical portion of the flashing.
3. Use a lower temperature setting on the heat welder than when welding reinforced TPO membrane. (Typically a setting of 6 on a scale of 10 is appropriate for welding VersiWeld TPO Outside Corners.)
4. Use the edge of the roller to crease the corner flashing into any membrane step-off to create a proper seal.
5. Probe all welded edges of the corner only once the material has completely cooled to ensure watertight performance.

Precautions

1. Store VersiWeld TPO Outside Corners in a cool, shaded area and cover with light-colored, breathable, waterproof tarpaulins. VersiWeld TPO Outside Corners or TPO membrane that has been exposed to the weather prior to use must be prepared with Weathered Membrane Cleaner before hot-air welding.

VERSIWELD OUTSIDE CORNERS TYPICAL PROPERTIES AND CHARACTERISTICS	
Color	White, Gray, Tan
Thickness	0.060" (1.5 mm)
Packaging	12 per bag
Material	Injection-molded TPO

VERSICO

A SINGLE SOURCE FOR SINGLE-PLY ROOFING

Versico, LLC PO Box 1289, Carlisle, PA 17013
Tel: **800.992.7663** Fax: 717.960.4036 Web: **www.versico.com**

VERSIWELD® TPO UNIVERSAL CORNERS

Overview

Versico's labor-saving, pre-molded VersiWeld TPO Universal Corners are ideal for flashing corners on a variety of details. Installation is quick and simple with no stretching required.

Versico's VersiWeld TPO Universal Corners are a part of the Certified Fabricated Accessory (CFA) program. CFAs are the only factory-fabricated TPO accessories that meet the stringent quality tolerances required to be included in a Versico warranted roofing system.

Features and Benefits

- Conforms easily to details on new construction installations, where right angles are common
- Each Universal Corner can be cut into one outside corner or one inside corner
- Large, 6"-wide deck flange reduces the need for T-Joint Covers (when used as an outside corner)
- Provides a substantial labor savings compared to field-fabricating from non-reinforced flashing
- More professional, consistent appearance than field-fabricated corners

Installation

See the diagram on page two for cutting instructions. The cutting instructions are also molded into each part. Use a lower temperature setting on the heat welder than when welding reinforced TPO membrane. Typically, a setting of 6 on a scale of 10 is appropriate for welding Universal Corners.

Outside Corner

1. Clean the surface to be welded with Weathered Membrane Cleaner.
2. Place the outside corner into position over the outside intersection of the corner.
3. Begin welding at the bottom point of the outside corner. Weld straight up the vertical portion of the corner. Weld each side of the outside corner, working from the inside toward the outside.
4. Weld the bottom flange starting on the inside and working towards the outer edges. Use the edges of the roller to crease the corner into any membrane step-off to create a proper seal.
5. Once the material has completely cooled, probe all welded edges of the corner to ensure watertight performance.

Inside Corner

1. Clean the surfaces to be welded with Weathered Membrane Cleaner.
2. Position the inside corner into the corner setting. Begin welding at the innermost corner point and work up and away from the corner. Weld each side of the inside corner, working from the inside toward the outside.
3. Weld the bottom flange starting on the inside and working towards the outer edges. Use the edge of the roller to crease the corner into any membrane step-off to create a proper seal.
4. Once the material has completely cooled, probe all welded edges of the corner to ensure watertight performance.

REVIEW CURRENT VERSICO SPECIFICATIONS AND DETAILS FOR SPECIFIC INSTALLATION REQUIREMENTS.

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Precautions

Store TPO Universal Corners in a cool, shaded area and cover with light-colored, breathable, waterproof tarpaulins. TPO Universal Corners or TPO membrane that has been exposed to the weather prior to use must be prepared with Weathered Membrane Cleaner before hot-air welding.

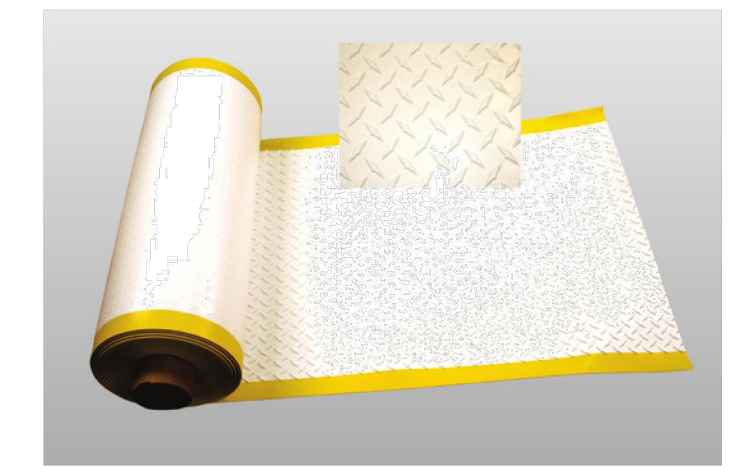
TYPICAL PROPERTIES AND CHARACTERISTICS	
Property	Value
Thickness	0.060" (1.5 mm)
Packaging	20 per carton
Color	White, gray and tan
Material	Injection-molded TPO

Typical properties and characteristics are based on samples tested and are not guaranteed for all samples of this product. This data and information is intended as a guide and does not reflect the specification range for any particular property of this product.

LEED® INFORMATION	
Pre-consumer Recycled Content	0%
Post-consumer Recycled Content	0%
Manufacturing Location	Bloomingdale, IL

TPO Heat Weldable Walkway Rolls

Certified Fabricated Accessory



Overview

Versico's VersiWeld® TPO Heat Weldable Walkway Roll is designed to protect the VersiWeld TPO membrane in areas exposed to repetitive foot traffic and other hazards. Walkways must be installed at all traffic concentration points (i.e, roof hatches, access doors, rooftop ladders, etc.) regardless of traffic frequency. Walkways must also be installed if regular maintenance (once a month or more) is necessary to service rooftop equipment.

Versico's VersiWeld TPO Walkway Rolls are part of the Certified Fabricated Accessory (CFA) program. Certified Fabricated Accessories are the only factory-fabricated TPO accessories that meet the stringent quality tolerances required by Versico.

Features and Benefits

- Increased slip resistance created with a diamond- plate tread pattern
- Walkway edges are trimmed in safety yellow to better define the designated traffic flow
- The yellow edges are smooth without tread lugs for easier welding
- Superior weathering package for long-term performance
- Stocked in white, tan and gray, special colors available (minimum quantities apply)

Installation

1. Use Weathered Membrane Cleaner to prepare the membrane area that will be welded to the walkway material.
2. Position the walkway material. Cut the Walkway Rolls into maximum 10' lengths and position with a minimum 1" gap between adjacent pieces to allow for water drainage. Cut the walkway so a 4" minimum gap is created over any field splices. Since the attachment of the walkway to the membrane is permanent, this will allow access to the field seams.
3. Using an automated welder, **weld all four sides of the walkway material to the membrane**. Typically the same speed and temperature settings will be used for this procedure as for welding membrane to membrane. A test weld is always recommended prior to performing welds to the installed membrane. A hand-held welder may be utilized; however, productivity will be decreased.

REVIEW CURRENT VERSICO SPECIFICATIONS AND DETAILS FOR SPECIFIC INSTALLATION REQUIREMENTS.

Precautions

- Walkway Rolls are a maintenance item and are not covered under the Versico membrane systems warranty.
- This product is to be used as a walkway only and is not designed as a perimeter warning line or a substitute for ballast. For safety reasons, walkway rolls should not be installed within 10' (3m) of the roof perimeter.
- Allow the walkway to relax and warm up in the sun prior to welding in place.
- When possible, weld the walkway rolls when the ambient temperature is above 60° F (16° C) to help prevent wrinkles.

VERSICO ROOFING SYSTEMS

BUILDING VALUE

VERSIWELD® TPO PIPE SEALS

Certified Fabricated Accessory

Overview

Let Versico simplify your next VersiWeld TPO installation with TPO Molded Pipe Seals. TPO Pipe Seals are injection molded, pre-formed flashings for pipes ¾" (19.0 mm) to 8" (203.2 mm) in diameter. TPO Pipe Seals are packaged in boxes of eight and come with universal stainless steel clamping rings.

VersiWeld TPO Molded Pipe Seals are part of the Certified Fabricated Accessory (CFA) program. Certified Fabricated Accessories are the only factory-fabricated TPO accessories that meet the stringent quality tolerances required to be included in a Versico warranted roofing system.

Features and Benefits

- Provides a reliable method of waterproofing round pipe penetrations
- Provides a substantial labor savings compared to field fabricating from non-reinforced flashing
- Provides more consistent appearance than field-fabricated pipe flashings
- Double-ribbed cutting guide provides easier, smoother and straighter cuts
- Rib design also keeps the clamp in the proper position for the life of the roofing system

Installation

1. Cut pipe seal between the two raised "ribs" to the desired diameter as illustrated on the flange of the pipe seal. (Do not cut off both raised "ribs").
2. Pull pipe seal over pipe until base flange is in contact with the membrane. (Application of heat to the top portion of the pipe seal may be necessary to allow installation over the pipe).
3. Mark pipe around the top of the TPO Pipe Seal.
4. Pull TPO Pipe Seal upwards on pipe until mark on the pipe is visible.
5. Install Water Cut-off Mastic below mark which indicates the top of the installed TPO Pipe Seal.
6. Pull TPO Pipe Seal back down over pipe and into position.
7. Heat weld the TPO Pipe Seal base flange to deck membrane (the hand-welder temperature setting should be between 5 and 6).
8. Install a stainless steel universal clamping ring to provide constant compression of the sealant.

REVIEW CURRENT VERSICO SPECIFICATIONS AND DETAILS FOR SPECIFIC INSTALLATION REQUIREMENTS.

Precautions

1. Remove all lead and other flashing.
2. Temperature of pipe must not exceed 160°F (71°C).
3. When used with mechanically attached membrane, install a minimum of four fastening plates around pipe penetrations. Position fastening plates around the penetration so the plates are covered by the pipe seal flange. A minimum 1½-inch wide weld must be maintained around the outer edge of the flange beyond the plates. If fastening plates cannot be installed in a manner to allow a minimum 1½-inch weld, the plates must be placed outside the TPO Pipe Seal flange and covered with a reinforced VersiWeld overlay.
4. Store pre-molded pipe seals in a cool, shaded area and cover with light-colored, breathable, waterproof tarpaulins. TPO Pipe Seals or membrane that has been exposed to the weather prior to use must be prepared with Weathered Membrane Cleaner prior to hot-air welding.

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VERSICO ROOFING SYSTEMS

TOTAL ROOFING SYSTEM WARRANTY

WARRANTY NO.:
BUILDING OWNER:
NAME OF BUILDING:
BUILDING ADDRESS:
DATE OF COMPLETION OF THE VERSICO TOTAL ROOFING SYSTEM:
DATE OF ISSUE:

Versico, a division of Carlisle Construction Materials Incorporated (Versico), warrants to the Building Owner (Owner) of the above described building, that; subject to the terms, conditions, and limitations stated in this warranty, Versico will repair any leak in the Versico Roofing System (Versico Total Roofing System) installed by a Versico Authorized Roofing Contractor for a period of -- years, commencing with the date of Versico's acceptance of the Versico Total Roofing System installation. However, in no event shall Versico's obligations extend beyond -- years, subsequent to the date of substantial completion of the Versico Total Roofing System. See below for exact date of warranty expiration.

The Versico Total Roofing System is defined as the following Versico brand materials: Membrane, Flashings, Adhesives and Sealants, Insulation, Cover Boards, Fasteners, Fastener Plates, Fastening Bars, Insulation Adhesives and any other Versico brand products utilized in this installation.

TERMS, CONDITIONS, LIMITATIONS

1. Owner shall provide Versico with written notice via letter, fax or email within thirty (30) days of any leak in the Versico Total Roofing System. Owner should send written notice of a leak to Versico's Warranty Services Department at the address set forth at the bottom of this warranty. By so notifying Versico, the Owner authorizes Versico or its designee to investigate the cause of the leak. Should the investigation reveal the cause of the leak to be outside the scope of this Warranty, investigation and repair costs for this service shall be paid by the Owner.

2. If, upon inspection, Versico determines that the leak is caused by a defect in the Versico Total Roofing System's materials, or workmanship of the Versico Authorized Roofing Contractor in installing the same, Owner's remedies and Versico's liability shall be limited to Versico's repair of the leak. Versico shall have sole responsibility in determining the method of repair of the area.

3. This warranty shall not be applicable if, upon Versico's inspection, Versico determines that any of the following has occurred:
(a) The Versico Total Roofing System is damaged by: natural disasters, lightning, fire, insects, animals, windblown debris or objects, earthquakes, tornados, hail, hurricanes, and winds of (3 second) peak gust speeds of -- mph or higher measured at 10 meters above ground; or
(b) Loss of integrity of the building envelope and/or structure, including, but not limited to, partial or complete loss of roof decking, wall siding, windows, roof top units, doors or other envelope components; or
(c) All associated building components, including but not limited to the deck substrate, joists, columns and foundation, must also meet wind speed design requirements.
(d) The Versico Total Roofing System is damaged by any acts, accidents, misuse, abuse, vandalism, civil disobedience or the like; or
(e) Deterioration or failure of building components, including, but not limited to, the roof substrate, walls, mortar, HVAC units, non Versico brand metal work, etc., occurs and causes a leak, or otherwise damages the Versico Total Roofing System; or
(f) Deterioration of metal materials and accessories caused by marine salt water, atmosphere, or by regular spray of either salt or fresh water; or

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(g) Acids, oils, harmful chemicals and the like come in contact with the Versico Total Roofing System and cause a leak, or otherwise damage the Versico Total Roofing System; or
(h) The Versico Total Roofing System encounters leaks or is otherwise damaged by condensation resulting from any condition within the building that may generate moisture; or
(i) The Versico Authorized Contractor or any additional contractor or subcontractor failed to follow Versico's published specifications and details for the approved system assembly or failure to correct all installation deficiencies listed in any Versico inspection report.

4. This Warranty shall be null and void if any of the following shall occur:
(a) If, after installation of the Versico Total Roofing System by a Versico Authorized Roofing Contractor, there are any alterations or repairs made on or through the roof or objects such as, but not limited to, structures, fixtures, solar arrays, wind turbines, roof gardens or utilities are placed upon or attached to the roof without first obtaining written authorization from Versico; or
(b) Failure by the Owner to use reasonable care in maintaining the roof, said maintenance to include, but not be limited to, those items listed on Versico's Care & Maintenance Guide which accompanies this Warranty.

5. In addition, it shall be Owner's sole responsibility to remove and re-install at Owner's expense, all obstructions, including, but not limited to, structures, fixtures, solar arrays, wind turbines, roof gardens, utilities or other overburden from the affected area as determined by Versico that would hinder or impede repairs being made in the most expedient and least expensive manner possible. Owner shall be responsible for all costs associated with any loss of power generation in the event that removal of a solar array is required to repair the roofing system.

6. During the term of this Warranty, Versico shall have free access to the roof during regular business hours.

7. Versico shall have no obligation under this Warranty while any bills for installation, supplies, service, and/or warranty charges have not been paid in full to the Versico Authorized Roofing Contractor, Versico, or material suppliers.

8. Versico's failure at any time to enforce any of the terms or conditions stated herein shall not be construed to be a waiver of such provision.

9. Versico shall not be responsible for the cleanliness or discoloration of the Versico Total Roofing System caused by environmental conditions including, but not limited to, dirt, pollutants or biological agents.

10. Versico shall have no liability under any theory of law for any claims, repairs, restoration, or other damages including, but not limited to, consequential or incidental damages relating, directly or indirectly, to the presence of any irritants, contaminants, vapors, fumes, molds, fungi, bacteria, spores, mycotoxins, or the like in the building or in the air, land, or water serving the building.

11. This warranty shall be transferable upon a change in ownership of the building when the Owner has completed certain procedures, including a transfer fee and an inspection of the Roofing System by a Versico representative.

12. Any dispute, controversy or claim between the Owner and Versico concerning this Limited Warranty shall be settled by mediation. In the event that the Owner and Versico do not resolve the dispute, controversy or claim in mediation, the Owner and Versico agree that any and all suits, proceedings, or claims shall be filed in either the state courts of Cumberland County, Pennsylvania or in the United States District Court for the Middle District of Pennsylvania. Each party irrevocably consents to the jurisdiction and venue of the above-identified courts.

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13. Roof System Design Assembly: Versico, as manufacturer of commercial roofing products with the sole purpose of offering products for an Owner, design professional, architect, consultant, or engineer when designing/choosing a roof system assembly, assumes no liability nor implies to the suitability of the products for any particular assembly or specific building operation or structure. The Owner, design professional, architect, consultant, or engineer is solely responsible for the assembly chosen for a particular building structure to include the responsibility to properly calculate wind uplift values, design dead loads and live loads, and suitability and condition of building envelope substrate, decking, parapets, drainage, slope, and other attributes pertaining to the performance of the roof system assembly.

14. The Versico Authorized Contractor or any additional contractor or subcontractor are not agents of Versico.

VERSICO DOES NOT WARRANT PRODUCTS UTILIZED IN THIS INSTALLATION WHICH IT HAS NOT FURNISHED AND SPECIFICALLY DISCLAIMS LIABILITY, UNDER ANY THEORY OF LAW, ARISING OUT OF THE INSTALLATION AND PERFORMANCE OF, OR DAMAGES SUSTAINED BY OR CAUSED BY, PRODUCTS NOT FURNISHED BY VERSICO OR THE PRIOR EXISTING ROOFING MATERIAL OVER WHICH THE VERSICO ROOFING SYSTEM HAS BEEN INSTALLED.

THE REMEDIES STATED HEREIN ARE THE SOLE AND EXCLUSIVE REMEDIES FOR FAILURE OF THE VERSICO TOTAL ROOFING SYSTEM OR ITS COMPONENTS. THERE ARE NO WARRANTIES EITHER EXPRESSED OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE AND MERCHANTABILITY, WHICH EXTEND BEYOND THE FACE HEREOF. VERSICO SHALL NOT BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR OTHER DAMAGES INCLUDING, BUT NOT LIMITED TO, LOSS OF PROFITS OR DAMAGE TO THE BUILDING OR ITS CONTENTS UNDER ANY THEORY OF LAW.

BY: James Heisey

AUTHORIZED SIGNATURE:
TITLE: Director of Sales
This Warranty Expires:

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Versico Care and Maintenance Guide

In order to ensure the long-term performance of your Roofing System and continued warranty service and coverage, regular rooftop maintenance inspections are necessary. While normal aging will occur on all roofs, if not detected early, problems stemming from abuse, contamination, accidents and severe weather can result in extensive and costly repairs or premature failure of the roofing system. Single-ply Roofing Systems are typically low-slope and easy to inspect, but caution must be taken to ensure safety. Versico disclaims and assumes no liability for any rooftop activity.

- Owner must retain records related to the Roofing System. Such records include, but are not limited to: the warranty document and serial number, maintenance inspection logs, rooftop traffic logs, service logs, and invoices for work performed on the roofing system.
- Inspect the roof at least every six months (preferably spring and fall) and immediately following any weather event that includes excessive rainfall, high winds and/or hail warnings. Increased number of rooftop maintenance inspections may be required on some roofs as the location may dictate, such as higher trees near the building which will accumulate leaves and debris on the roof and have adverse effects on drainage. In addition, rooftop maintenance inspections should occur after regular maintenance of any rooftop unit.

When inspecting the Roofing System, pay special attention to the following:
- Walls/Parapets/Roof Edge – Wind damage often begins at the perimeter of the roof. Ensure all membrane terminations and edge metal and copings are secure.
- Roof Deck Membrane – Inspect the field of the roof, scanning for damage caused by wind-blown debris or traffic.
- Penetrations/Rooftop Units – Inspect the membrane, flashings and terminations around penetrations and roof top units for possible damage from service work. Ensure the units and terminations are secure.
- Remove debris (leaves, dirt, trash, etc.) – Good roofing practice dictates that water should drain from the roof and that ponded water should evaporate within 48 to 72 hours after a rainfall. Debris can inhibit drainage.

Additional Maintenance Items:
- Foot Traffic – Walkways must be provided if regular traffic is required or if rooftop equipment has a regular thirty (30) day or less maintenance schedule.
- Petroleum Products & Chemicals - Keep all liquids containing petroleum products or chemicals off the membrane to avoid product degradation.
- Animal Fats/Vegetable Oils: EPDM Membranes - Do not exhaust animal fats/vegetable oils directly onto EPDM roof surfaces. TPO & PVC Membranes – Animal fats/vegetable oils must be regularly removed and the rooftop surface cleaned with a mixture of soap and water.

What to do if a leak occurs:
- After verifying the leak is through the roofing system, contact Versico at 1-800-233-0551 or at www.versico.com.
- If minor, emergency temporary repairs are made to a suspected leak area, use Versico's Lap Sealant or a good-grade rubber caulk to address the repair area (do not use asphaltic roof cement). Please note, Versico is not responsible for the cost associated with any emergency temporary repairs.

Alterations to the Roofing System:
- Alterations to the Roofing System must be completed by a Versico Authorized Contractor. The Versico Authorized Contractor must notify Versico when the revision work is complete. The necessary form can be found on the Versico website via the Authorized Contractors login.

Warranty Transfer:
- Warranties shall be transferable upon a change in ownership of the building when the Owner has completed certain procedures. This form can be found on the Versico website for additional guidelines.

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No	Revision / Submissions	Date

3650 Wadsworth Boulevard
Wheat Ridge, Colorado 80033
Phone: 303-428-4895
Fax: 303-428-5472
Email: info@battistadesign.net
www.battistadesign.net
BATTISTA DESIGN GROUP

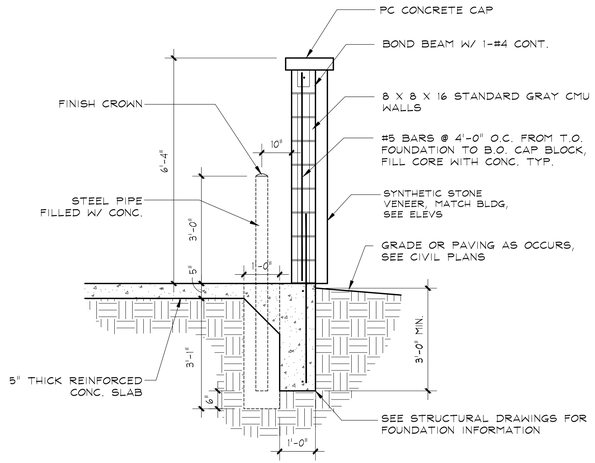
SVA GREELEY Shell Building

1911 59th AVENUE
GREELEY, CO 80634

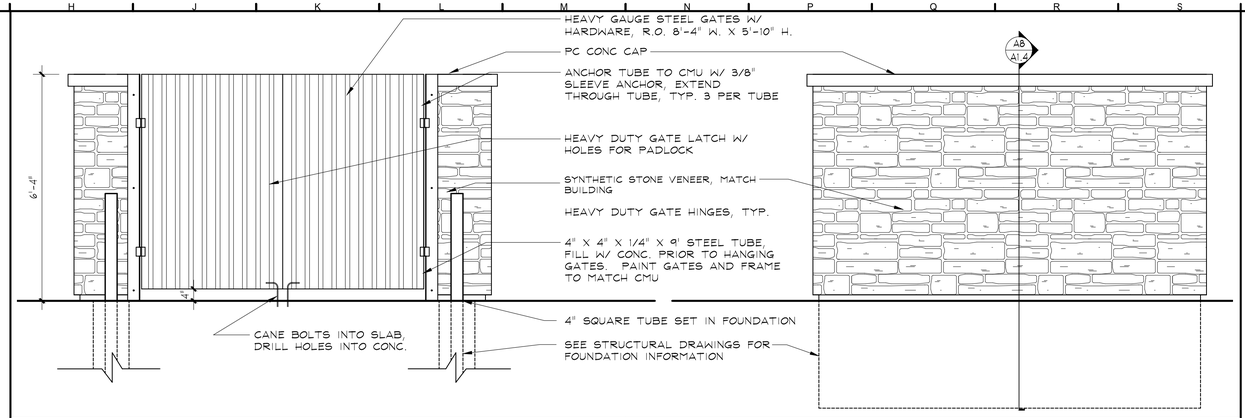
TPO ROOF MEMBRANE DETAILS

STATE OF COLORADO LICENSED ARCHITECT PAUL J. BATTISTA B-3015 02/11/2025

Designed: PJB	Project Number: SVA2025
Drawn: IJF	Scale: As Shown
Checked: PJB	Drawing Number:
Reviewed: PJB	A1.3.1
Date: Feb., 2025	of

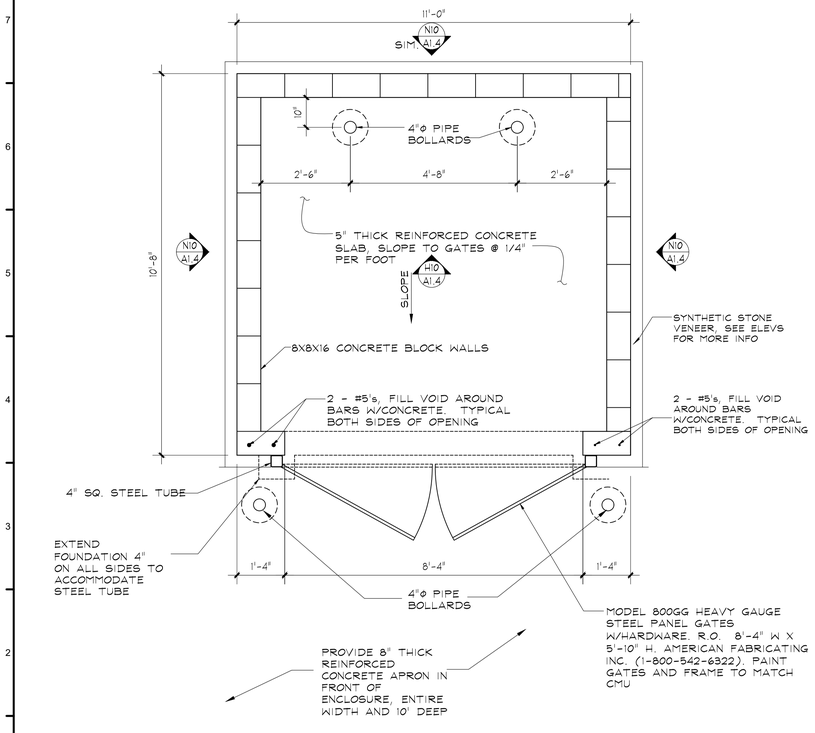


A8	TRASH ENCLOSURE WALL SECTION
1/2" = 1'-0"	

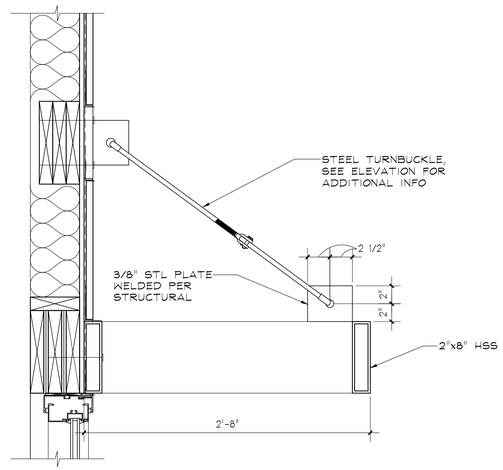


H10	TRASH ENCLOSURE ELEVATION
1/2" = 1'-0"	SIDE AND BACK

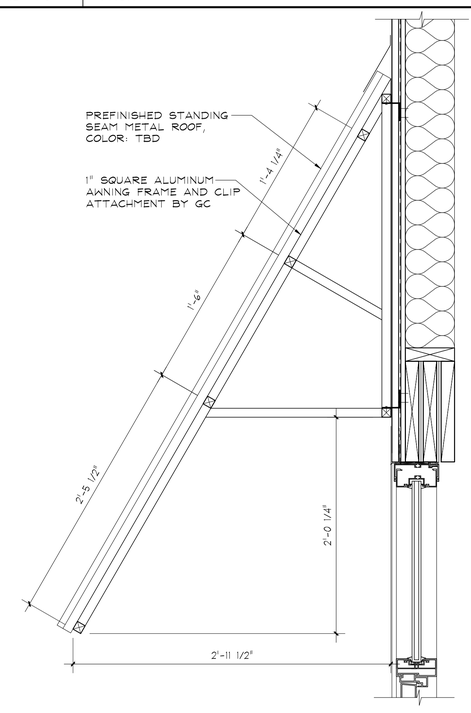
N10	TRASH ENCLOSURE ELEVATIONS
1/2" = 1'-0"	FRONT



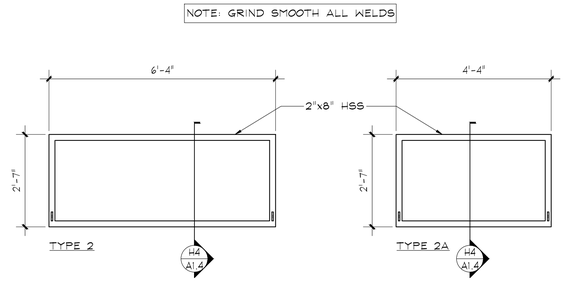
A1	TRASH ENCLOSURE PLAN
1/2" = 1'-0"	



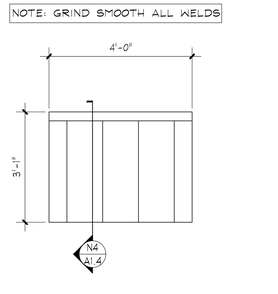
H4	AWNING SECTION - TYPE 2
1 1/2" = 1'-0"	



N4	AWNING SECTION - TYPE 1
1 1/2" = 1'-0"	



H1	ENLARGED AWNING PLAN - TYPE 2 AND 2A
1/2" = 1'-0"	



N1	ENLARGED AWNING PLAN - TYPE 1
1/2" = 1'-0"	

No	Revision / Submissions	Date

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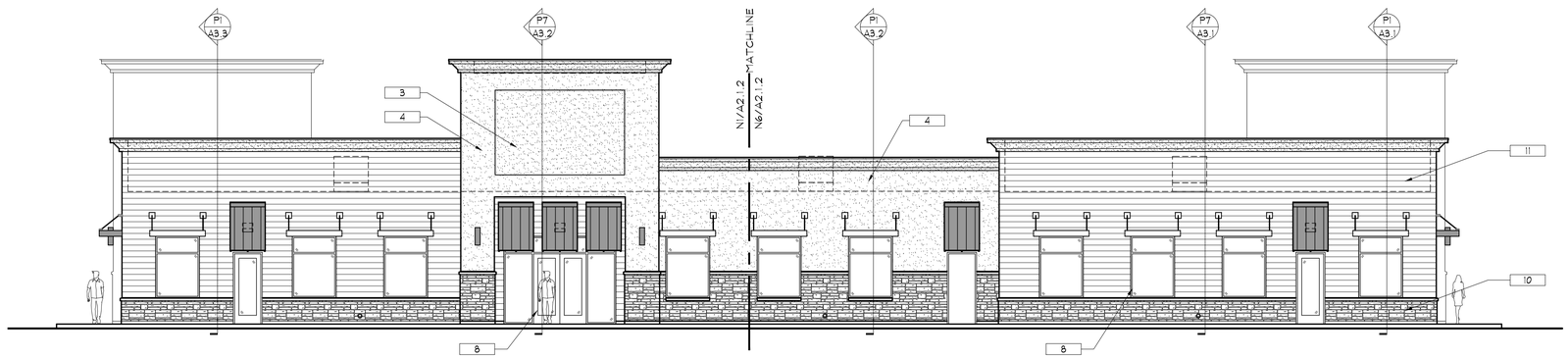
SVA GREELEY
Shell Building
1911 59th AVENUE
GREELEY, CO 80634

AWNING AND TRASH ENCLOSURE DETAILS

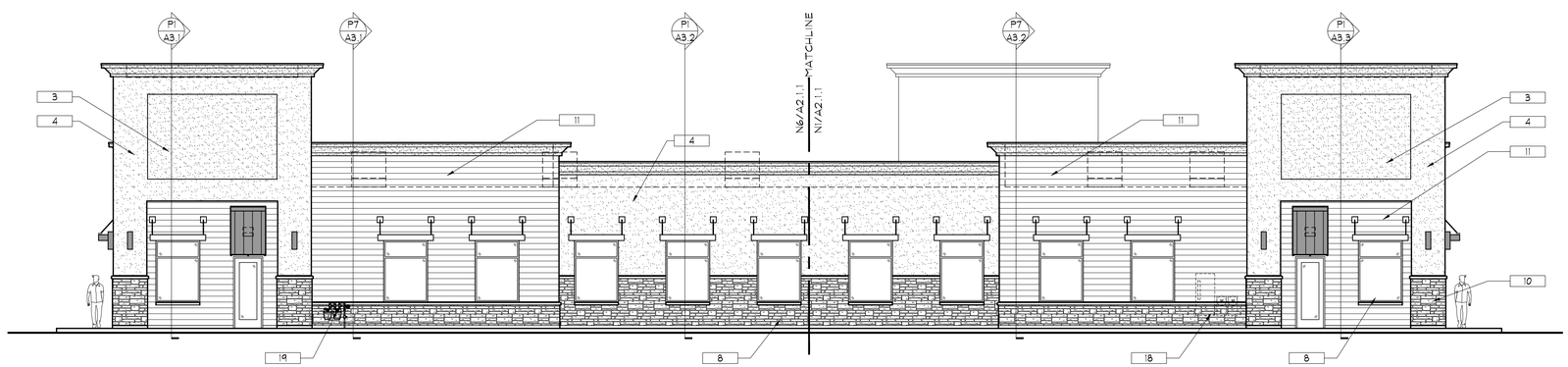
STATE OF COLORADO
PAUL J. BATTISTA
B-3015
02/11/2025
LICENSED ARCHITECT

Designed: PJB	Project Number: SVA2025
Drawn: IJF	Scale: As Shown
Checked: PJB	Drawing Number: A1.4
Reviewed: PJB	
Date: Feb., 2025	of



P6 | OVERALL WEST BUILDING ELEVATION

1/8" = 1'-0"



P1 | OVERALL EAST BUILDING ELEVATION

1/8" = 1'-0"

NOTE: SEE SHEETS A2.1.1 AND A2.1.2 FOR ADDITIONAL KEYNOTES AND INFORMATION.

KEYNOTES:

1	METAL CAP FLASHING TO MATCH ADJACENT STUCCO CORNICE, DARK BROWN
2	STUCCO CORNICE, DARK BROWN
3	STUCCO FIELD COLOR #1, LIGHT TAN
4	STUCCO FIELD COLOR #2, MEDIUM TAN
5	STEEL PLATES, RODS AND TURNBUCKLES, DARK BRONZE
6	TUBE STEEL AWNINGS, DARK BRONZE
7	SLOPED STANDING SEAM METAL AWNINGS, DENIM BLUE COLOR
8	ALUMINUM STOREFRONT WINDOWS AND DOORS, DARK BRONZE
9	P.C. CONC. SILL TRIM PIECE AND/OR CAP STONE, BUFF COLOR
10	MANUFACTURED STONE VENEER, BLEND OF TANS AND BROWNS
11	WOOD LOOK MANUFACTURED CONC. PLANKS, MEDIUM BROWN
12	HEAVY STEEL TRASH GATES, DARK BROWN
13	WALL PACK/EGRESS LIGHT, DARK BRONZE
14	WALL SCONCE ACCENT LIGHT, DARK BRONZE
15	INSULATED METAL DOOR, DARK BROWN
16	LINE OF ROOF BEYOND, ROOFTOP EQUIPMENT TO BE SCREENED BY PARAPETS
17	POTENTIAL SIGNAGE LOCATION, SIGNAGE BY SEPARATE PERMIT
18	ELECTRICAL SERVICE
19	GAS SERVICE
20	ROOFTOP HVAC UNITS BEYOND
21	EMERGENCY ROOF OVERFLOW DRAIN, TO SIDEWALK CHASE. ROOF DRAINS/DOWNSPOUTS TO BE INTERNAL AND HARD PIPED TO STORM SEWER

No	Revision / Submissions	Date

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SVA GREELEY
Shell Building
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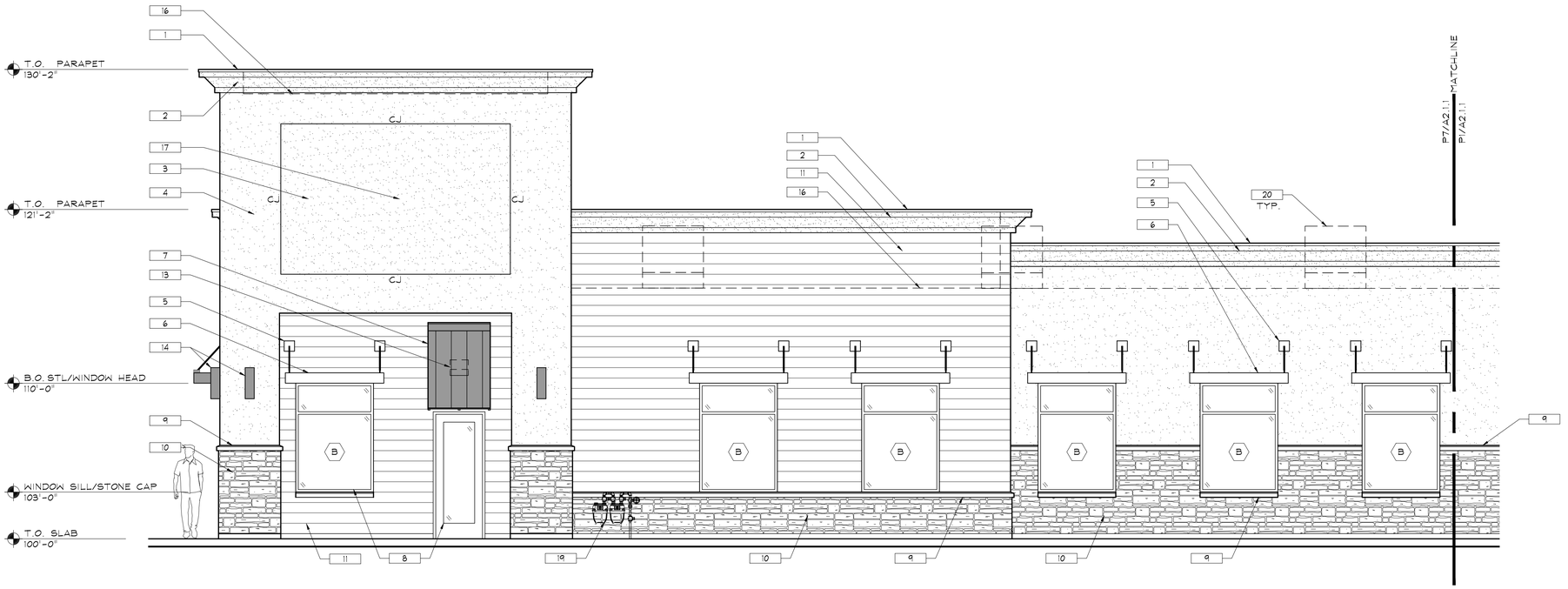
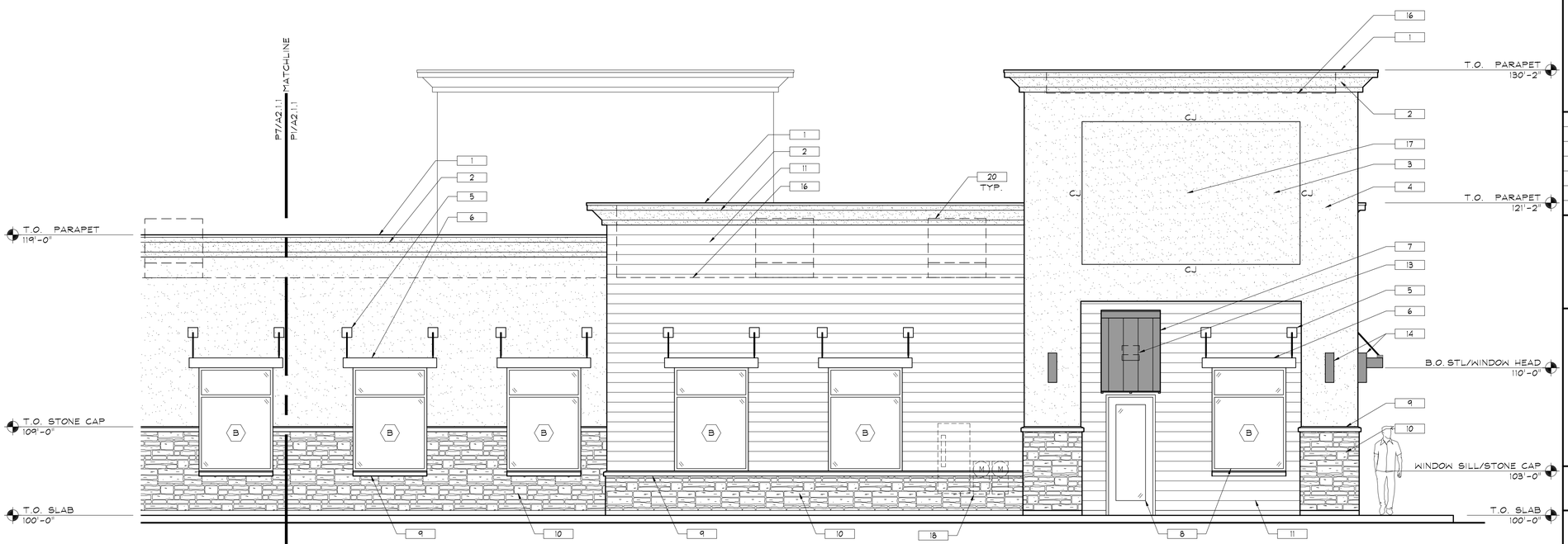
OVERALL EAST AND WEST
BUILDING ELEVATIONS

STATE OF COLORADO
PAUL J. BATTISTA
B-3015
02/11/2025
LICENSED ARCHITECT

Designed: PJB	Project Number: SVA2025
Drawn: IJF	Scale: As Shown
Checked: PJB	Drawing Number: A2.1
Reviewed: PJB	
Date: Feb., 2025	of



P7	PARTIAL EAST BUILDING ELEVATION
1/4" = 1'-0"	



P1	PARTIAL EAST BUILDING ELEVATION
1/4" = 1'-0"	

KEYNOTES:

1	METAL CAP FLASHING TO MATCH ADJACENT STUCCO CORNICE, DARK BROWN
2	STUCCO CORNICE, DARK BROWN
3	STUCCO FIELD COLOR #1, LIGHT TAN
4	STUCCO FIELD COLOR #2, MEDIUM TAN
5	STEEL PLATES, RODS AND TURNBUCKLES, DARK BRONZE
6	TUBE STEEL AWNINGS, DARK BRONZE
7	SLOPED STANDING SEAM METAL AWNINGS, DENIM BLUE COLOR
8	ALUMINUM STOREFRONT WINDOWS AND DOORS, DARK BRONZE
9	P.C. CONC. SILL TRIM PIECE AND/OR CAP STONE, BUFF COLOR
10	MANUFACTURED STONE VENEER, BLEND OF TANS AND BROWNS
11	WOOD LOOK MANUFACTURED CONC. PLANKS, MEDIUM BROWN
12	HEAVY STEEL TRASH GATES, DARK BROWN
13	WALL PACK/EGRESS LIGHT, DARK BRONZE
14	WALL SCONCE ACCENT LIGHT, DARK BRONZE
15	INSULATED METAL DOOR, DARK BROWN
16	LINE OF ROOF BEYOND, ROOFTOP EQUIPMENT TO BE SCREENED BY PARAPETS
17	POTENTIAL SIGNAGE LOCATION, SIGNAGE BY SEPARATE PERMIT
18	ELECTRICAL SERVICE
19	GAS SERVICE
20	ROOFTOP HVAC UNITS BEYOND
21	EMERGENCY ROOF OVERFLOW DRAIN, TO SIDEWALK CHASE. ROOF DRAINS/DOWNSPOUTS TO BE INTERNAL AND HARD PIPED TO STORM SEWER

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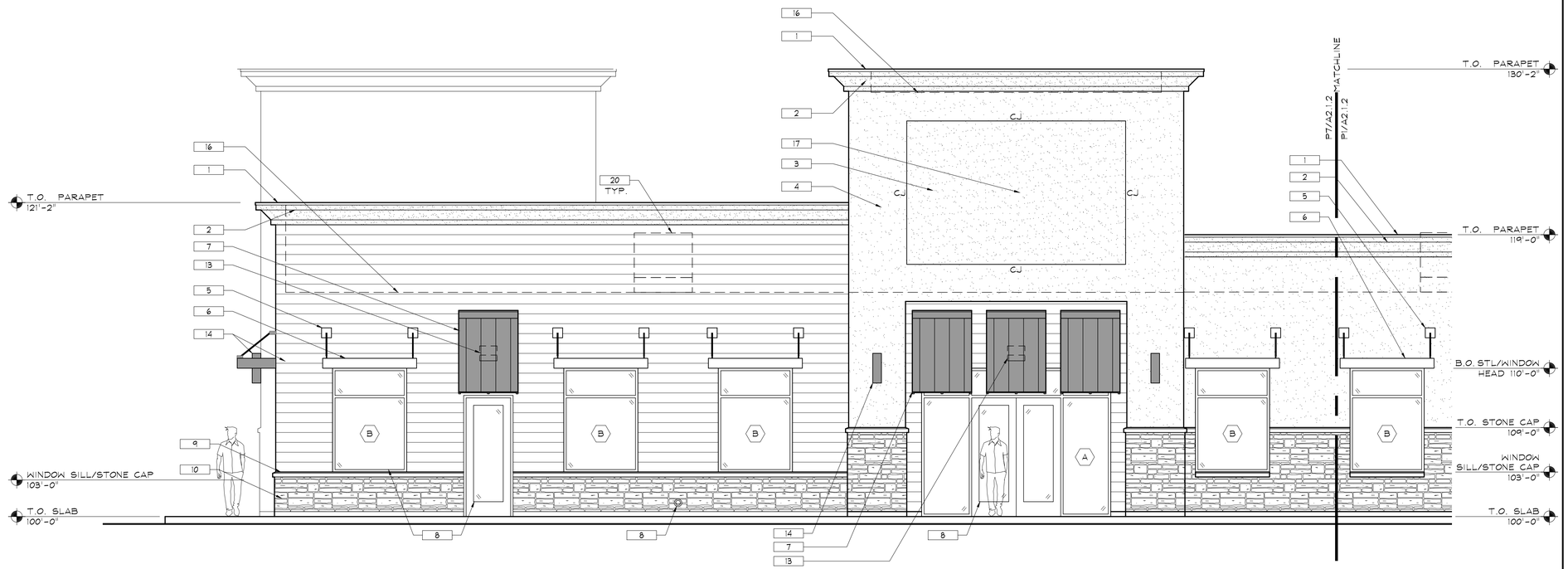
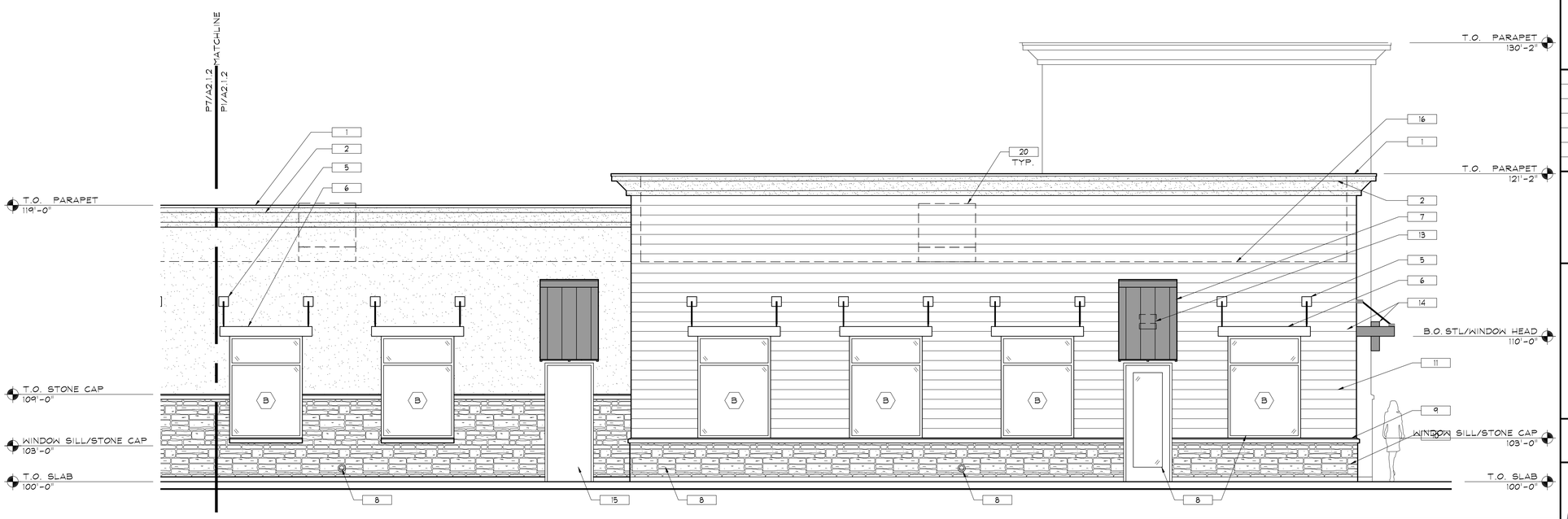
EAST BUILDING ELEVATION

STATE OF COLORADO
PAUL J. BATTISTA
B-3015
02/11/2025
LICENSED ARCHITECT

Designed: PJB	Project Number: SVA2025
Drawn: IJF	Scale: As Shown
Checked: PJB	Drawing Number: A2.1.1
Reviewed: PJB	
Date: Feb., 2025	of



P7	PARTIAL WEST BUILDING ELEVATION
1/4" = 1'-0"	



P1	PARTIAL WEST BUILDING ELEVATION
1/4" = 1'-0"	

KEYNOTES:

1	METAL CAP FLASHING TO MATCH ADJACENT STUCCO CORNICE, DARK BROWN
2	STUCCO CORNICE, DARK BROWN
3	STUCCO FIELD COLOR #1, LIGHT TAN
4	STUCCO FIELD COLOR #2, MEDIUM TAN
5	STEEL PLATES, RODS AND TURNBUCKLES, DARK BRONZE
6	TUBE STEEL AWNINGS, DARK BRONZE
7	SLOPED STANDING SEAM METAL AWNINGS, DENIM BLUE COLOR
8	ALUMINUM STOREFRONT WINDOWS AND DOORS, DARK BRONZE
9	P.C. CONC. SILL TRIM PIECE AND/OR CAP STONE, BUFF COLOR
10	MANUFACTURED STONE VENEER, BLEND OF TANS AND BROWNS
11	WOOD LOOK MANUFACTURED CONC. PLANKS, MEDIUM BROWN
12	HEAVY STEEL TRASH GATES, DARK BROWN
13	WALL PACK/EGRESS LIGHT, DARK BRONZE
14	WALL SCONCE ACCENT LIGHT, DARK BRONZE
15	INSULATED METAL DOOR, DARK BROWN
16	LINE OF ROOF BEYOND, ROOFTOP EQUIPMENT TO BE SCREENED BY PARAPETS
17	POTENTIAL SIGNAGE LOCATION, SIGNAGE BY SEPARATE PERMIT
18	ELECTRICAL SERVICE
19	GAS SERVICE
20	ROOFTOP HVAC UNITS BEYOND
21	EMERGENCY ROOF OVERFLOW DRAIN, TO SIDEWALK CHASE. ROOF DRAINS/DOWNSPOUTS TO BE INTERNAL AND HARD PIPED TO STORM SEWER

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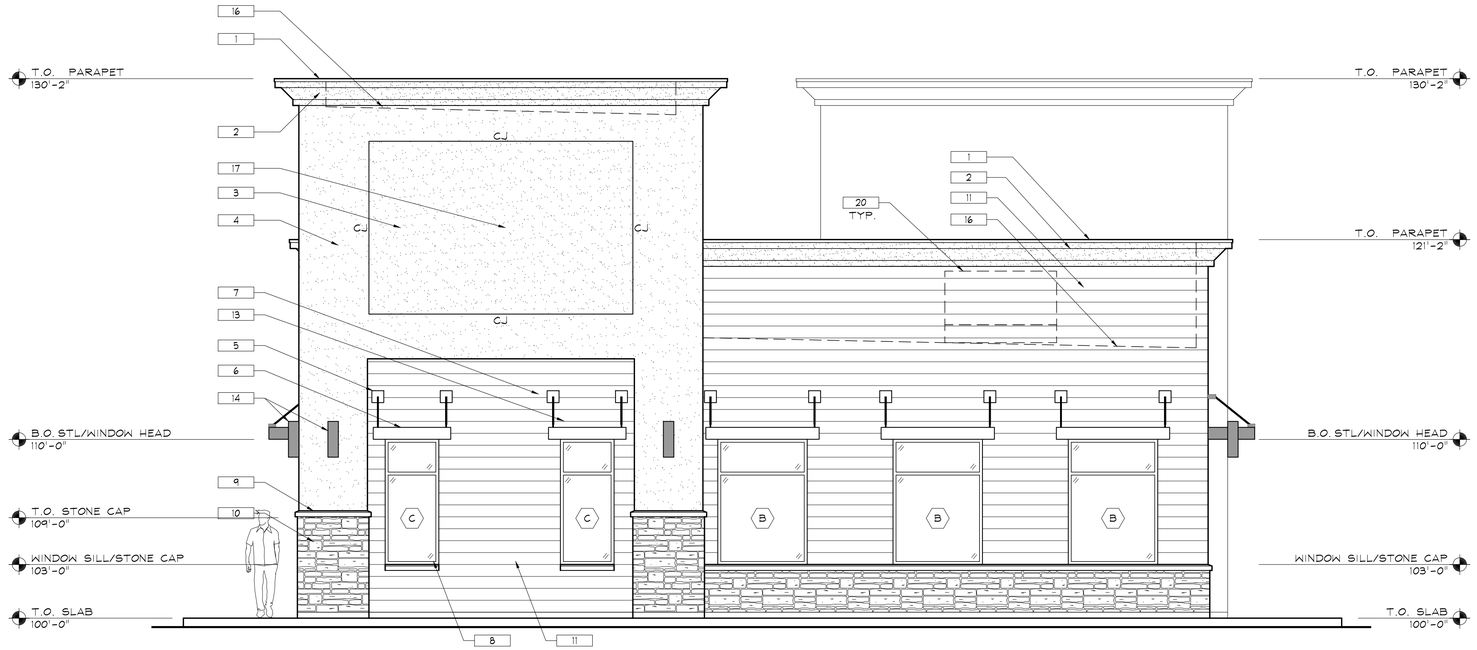
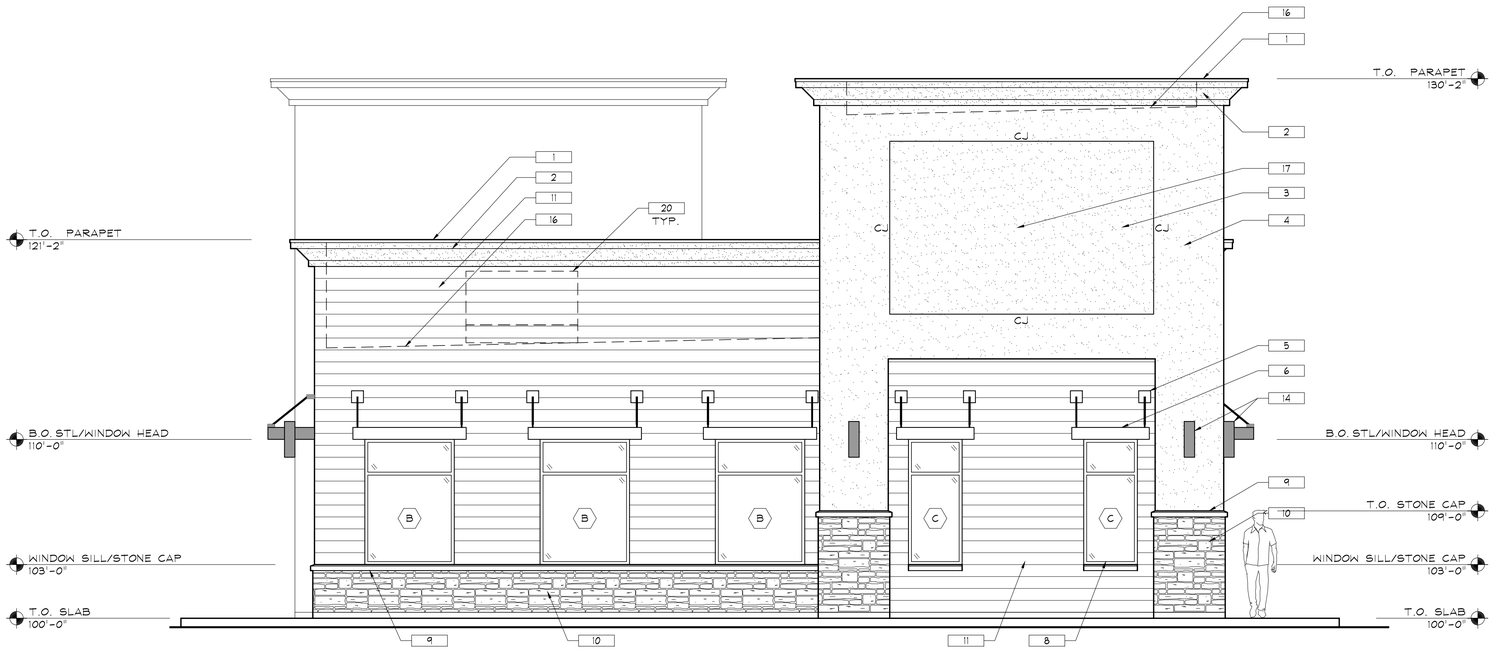
WEST BUILDING ELEVATION

STATE OF COLORADO
PAUL J. BATTISTA
B-3015
02/11/2025
LICENSED ARCHITECT

Designed: PJB	Project Number: SVA2025
Drawn: IJF	Scale: As Shown
Checked: PJB	Drawing Number: A2.1.2
Reviewed: PJB	
Date: Feb., 2025	of



P7	NORTH BUILDING ELEVATION
1/4" = 1'-0"	



P1	SOUTH BUILDING ELEVATION
1/4" = 1'-0"	

KEYNOTES:

1	METAL CAP FLASHING TO MATCH ADJACENT STUCCO CORNICE, DARK BROWN
2	STUCCO CORNICE, DARK BROWN
3	STUCCO FIELD COLOR #1, LIGHT TAN
4	STUCCO FIELD COLOR #2, MEDIUM TAN
5	STEEL PLATES, RODS AND TURNBUCKLES, DARK BRONZE
6	TUBE STEEL AWNINGS, DARK BRONZE
7	SLOPED STANDING SEAM METAL AWNINGS, DENIM BLUE COLOR
8	ALUMINUM STOREFRONT WINDOWS AND DOORS, DARK BRONZE
9	P.C. CONC. SILL TRIM PIECE AND/OR CAP STONE, BUFF COLOR
10	MANUFACTURED STONE VENEER, BLEND OF TANS AND BROWNS
11	WOOD LOOK MANUFACTURED CONC. PLANKS, MEDIUM BROWN
12	HEAVY STEEL TRASH GATES, DARK BROWN
13	WALL PACK/EGRESS LIGHT, DARK BRONZE
14	WALL SCONCE ACCENT LIGHT, DARK BRONZE
15	INSULATED METAL DOOR, DARK BROWN
16	LINE OF ROOF BEYOND, ROOFTOP EQUIPMENT TO BE SCREENED BY PARAPETS
17	POTENTIAL SIGNAGE LOCATION, SIGNAGE BY SEPARATE PERMIT
18	ELECTRICAL SERVICE
19	GAS SERVICE
20	ROOFTOP HVAC UNITS BEYOND
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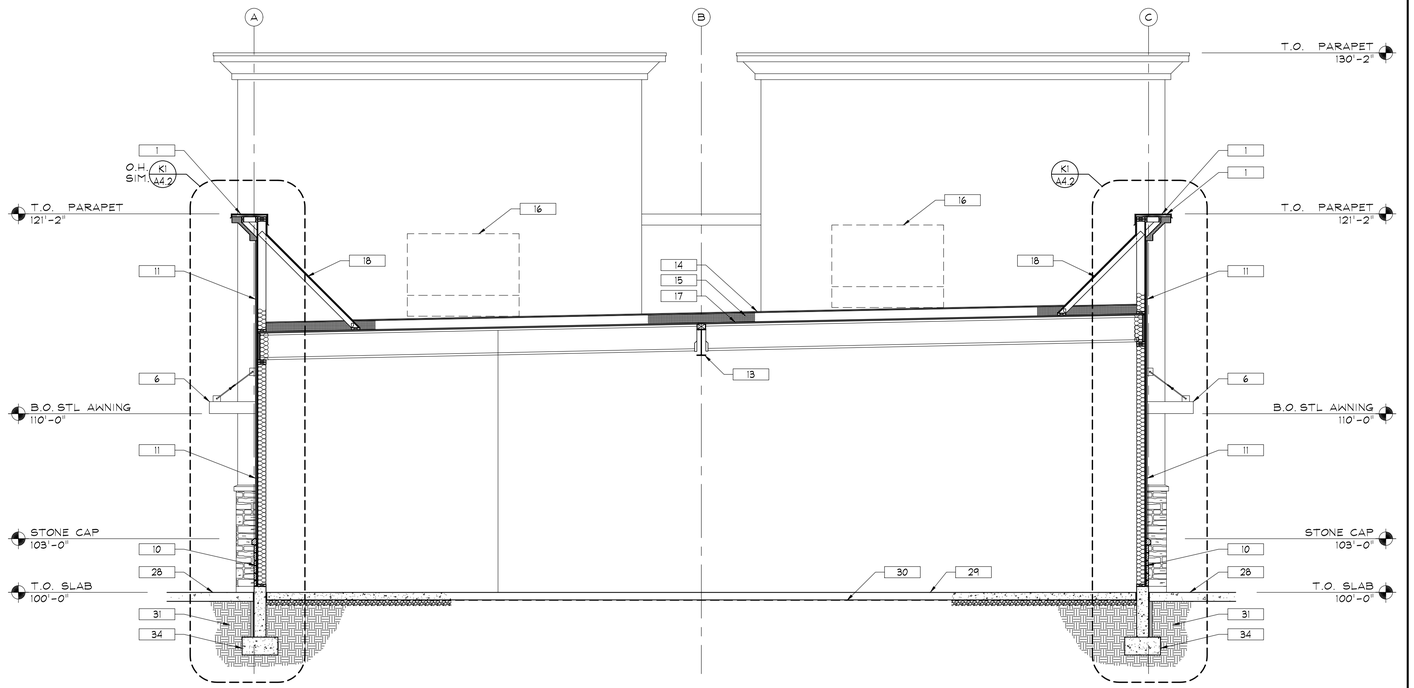
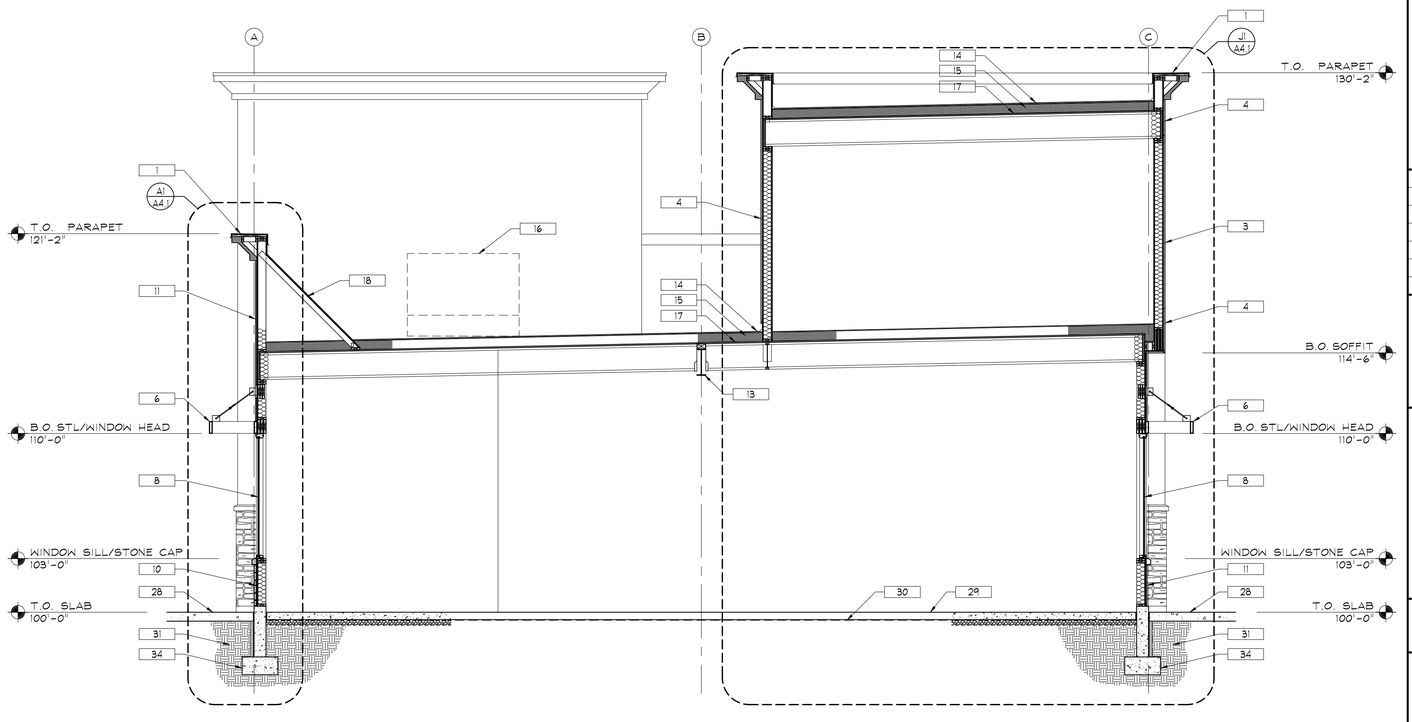
NORTH AND SOUTH
BUILDING ELEVATION

STATE OF COLORADO
PAUL J. BATTISTA
B-3015
02/11/2025
LICENSED ARCHITECT

Designed: PJB	Project Number: SVA2025
Drawn: IJF	Scale: As Shown
Checked: PJB	Drawing Number: A2.2
Reviewed: PJB	
Date: Feb., 2025	of



P7	BUILDING SECTION
1/4" = 1'-0"	



P1	BUILDING SECTION
1/4" = 1'-0"	

KEYNOTES:

1	METAL CAP FLASHING TO MATCH ADJACENT STUCCO CORNICE, DARK BROWN
2	STUCCO CORNICE, DARK BROWN
3	STUCCO FIELD COLOR #1, LIGHT TAN
4	STUCCO FIELD COLOR #2, MEDIUM TAN
5	STEEL PLATES, RODS AND TURNBUCKLES, DARK BRONZE
6	TUBE STEEL AWNINGS, DARK BRONZE
7	SLOPED STANDING SEAM METAL AWNINGS, DENIM BLUE COLOR
8	ALUMINUM STOREFRONT WINDOWS AND DOORS, DARK BRONZE
9	P.C. CONC. SILL TRIM PIECE AND/OR CAP STONE, BUFF COLOR
10	MANUFACTURED STONE VENEER, BLEND OF TANS AND BROWNS
11	WOOD LOOK MANUFACTURED CONC. PLANKS, MEDIUM BROWN
12	FLASHING AND COUNTER FLASHING
13	STEEL BEAM, SEE STRUCT.
14	60 MIL TPO ROOFING, SEE SHEET A1.3 FOR ADD. INFO.
15	± 6" R-40 POLYISO RIGID INSULATION W/ PROTECTION BOARD
16	ROOFTOP HVAC UNITS BEYOND, SEE M SHEETS
17	SHEATHING OVER PRE-ENGINEERED ROOF JOISTS, SEE STRUCTURAL FOR ADDITIONAL INFORMATION
18	2x KICKER, SEE STRUCT. FOR ADDITIONAL INFO.
19	LINE OF WALL/BUILDING BEYOND
20	AIR INFILTRATION BARRIER/BLDG. WRAP TYP OVER ALL VERTICAL EXTERIOR SHEATHING AND INSIDE DOOR AND WINDOW OPENINGS
21	MIN. R-19 KRAFT FACED BATT INSULATION
22	2x WOOD FRAMING, SEE STRUCT.
23	EXTERIOR SHEATHING, SEE STRUCT.
24	HEADER, SEE STRUCT.
25	LVL BEAM, SEE STRUCT.
26	CONT. SEALANT (OVER BACKER WHERE APPROPRIATE) PER VARIOUS SYSTEM REQUIREMENTS AND BETWEEN DISSIMILAR MATERIALS, SEE SPECS AND MANUF. PRODUCT DATA AND INSTRUCTIONS
27	CONT. PRESURE TREATED BOTTOM PLATE OVER SILL SEAL AND ANCHOR BOLTS PER STRUCT.
28	EXTERIOR CONCRETE WALK, SLOPE AWAY FROM BUILDING, TYP.
29	5" CONCRETE SLAB ON GRADE OVER GRAVEL LAYER PER SOILS REPORT, SEE STRUCTRAL
30	VAPOR BARRIER UNDER SLAB TO BE 10 MIL, CLASS C POLYETHYLENE WITH SEALED JOINTS.
31	STRUCT. FILL, SEE STRUCT. AND SOILS REPORT
32	ISOLATION/EXPANSION MATERIAL
33	2" X 24" VERT RIGID INSUL CONT.
34	CONCRETE FOUNDATION, SEE STRUCTURAL
35	WATERPROOFING ON FOUNDATION AND OVER TOP OF FOOTING

No	Revision / Submissions	Date

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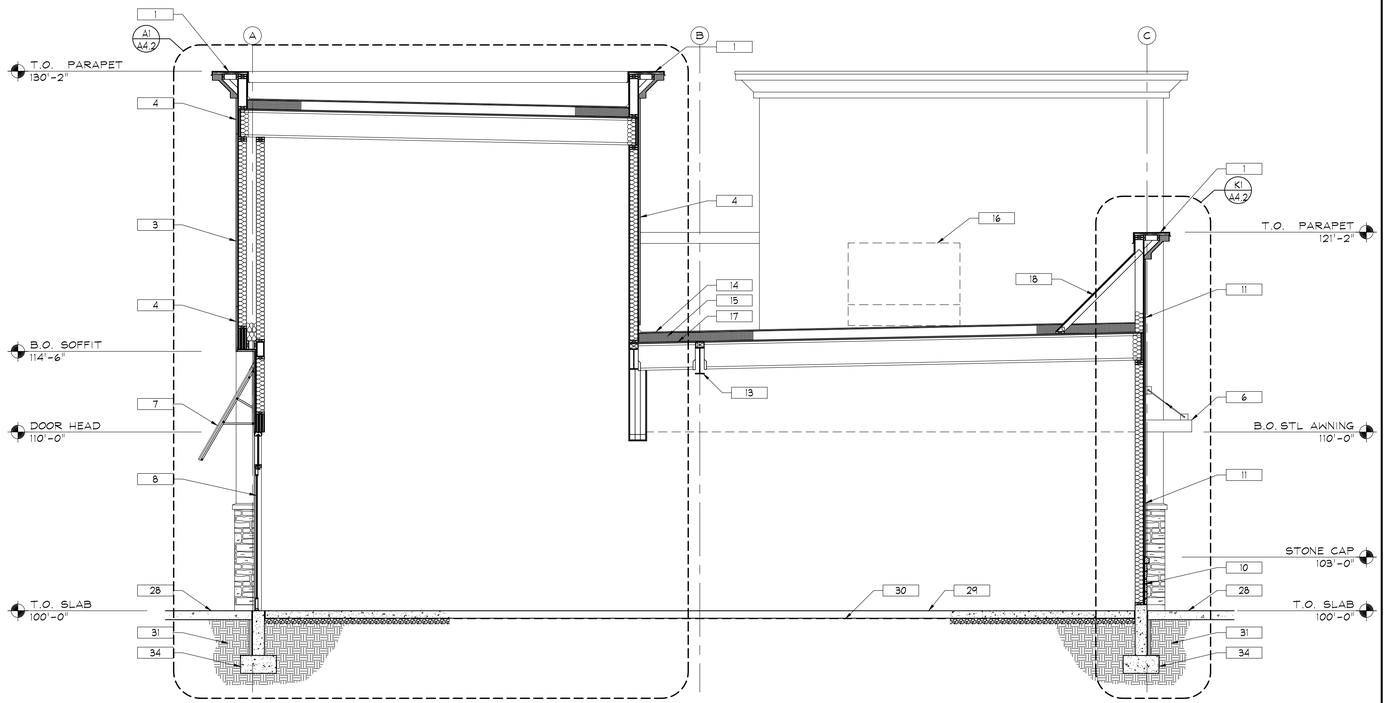
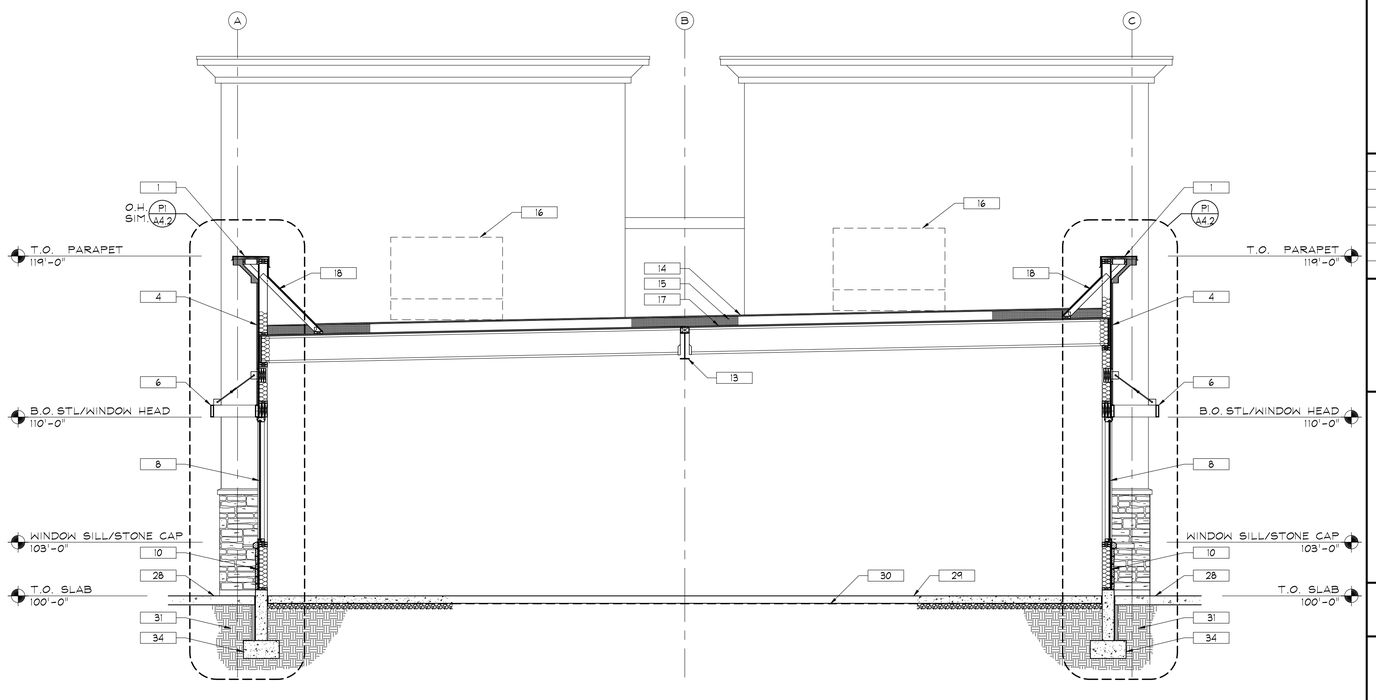
BUILDING SECTIONS

STATE OF COLORADO
PAUL J. BATTISTA
B-3015
02/11/2025
LICENSED ARCHITECT

Designed: PJB	Project Number: SVA2025
Drawn: IJF	Scale: As Shown
Checked: PJB	Drawing Number: A3.1
Reviewed: PJB	
Date: Feb., 2025	of



P7	BUILDING SECTION
1/4" = 1'-0"	



P1	BUILDING SECTION
1/4" = 1'-0"	

KEYNOTES:

1	METAL CAP FLASHING TO MATCH ADJACENT STUCCO CORNICE, DARK BROWN
2	STUCCO CORNICE, DARK BROWN
3	STUCCO FIELD COLOR #1, LIGHT TAN
4	STUCCO FIELD COLOR #2, MEDIUM TAN
5	STEEL PLATES, RODS AND TURNBUCKLES, DARK BRONZE
6	TUBE STEEL AWNINGS, DARK BRONZE
7	SLOPED STANDING SEAM METAL AWNINGS, DENIM BLUE COLOR
8	ALUMINUM STOREFRONT WINDOWS AND DOORS, DARK BRONZE
9	P.C. CONC. SILL TRIM PIECE AND/OR CAP STONE, BUFF COLOR
10	MANUFACTURED STONE VENEER, BLEND OF TANS AND BROWNS
11	WOOD LOOK MANUFACTURED CONC. PLANKS, MEDIUM BROWN
12	FLASHING AND COUNTER FLASHING
13	STEEL BEAM, SEE STRUCT.
14	60 MIL TPO ROOFING, SEE SHEET A1.3 FOR ADD. INFO.
15	± 6" R-40 POLYISO RIGID INSULATION W/ PROTECTION BOARD
16	ROOFTOP HVAC UNITS BEYOND, SEE M SHEETS
17	SHEATHING OVER PRE-ENGINEERED ROOF JOISTS, SEE STRUCTURAL FOR ADDITIONAL INFORMATION
18	2x KICKER, SEE STRUCT. FOR ADDITIONAL INFO.
19	LINE OF WALL/BUILDING BEYOND
20	AIR INFILTRATION BARRIER/BLDG. WRAP TYP OVER ALL VERTICAL EXTERIOR SHEATHING AND INSIDE DOOR AND WINDOW OPENINGS
21	MIN. R-19 KRAFT FACED BATT INSULATION
22	2x WOOD FRAMING, SEE STRUCT.
23	EXTERIOR SHEATHING, SEE STRUCT.
24	HEADER, SEE STRUCT.
25	LVL BEAM, SEE STRUCT.
26	CONT. SEALANT (OVER BACKER WHERE APPROPRIATE) PER VARIOUS SYSTEM REQUIREMENTS AND BETWEEN DISSIMILAR MATERIALS, SEE SPECS AND MANUF. PRODUCT DATA AND INSTRUCTIONS
27	CONT. PRESURE TREATED BOTTOM PLATE OVER SILL SEAL AND ANCHOR BOLTS PER STRUCT.
28	EXTERIOR CONCRETE WALK, SLOPE AWAY FROM BUILDING, TYP.
29	5" CONCRETE SLAB ON GRADE OVER GRAVEL LAYER PER SOILS REPORT, SEE STRUCTRAL
30	VAPOR BARRIER UNDER SLAB TO BE 10 MIL, CLASS C POLYETHYLENE WITH SEALED JOINTS.
31	STRUCT. FILL, SEE STRUCT. AND SOILS REPORT
32	ISOLATION/EXPANSION MATERIAL
33	2" X 24" VERT RIGID INSUL CONT.
34	CONCRETE FOUNDATION, SEE STRUCTURAL
35	WATERPROOFING ON FOUNDATION AND OVER TOP OF FOOTING

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BUILDING SECTIONS

STATE OF COLORADO
PAUL J. BATTISTA
B-3015
02/11/2025
LICENSED ARCHITECT

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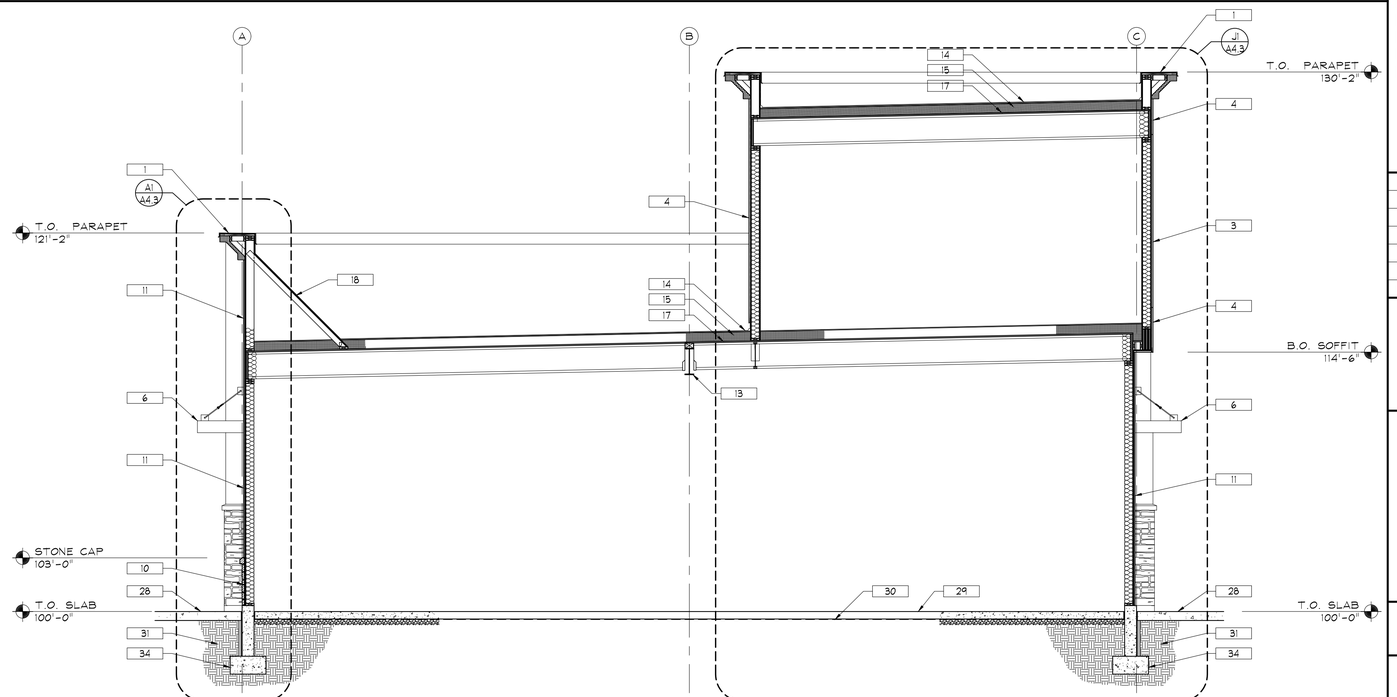

P1	BUILDING SECTION
1/4" = 1'-0"	

KEYNOTES:

1	METAL CAP FLASHING TO MATCH ADJACENT STUCCO CORNICE, DARK BROWN
2	STUCCO CORNICE, DARK BROWN
3	STUCCO FIELD COLOR #1, LIGHT TAN
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5	STEEL PLATES, RODS AND TURNBUCKLES, DARK BRONZE
6	TUBE STEEL AWNINGS, DARK BRONZE
7	SLOPED STANDING SEAM METAL AWNINGS, DENIM BLUE COLOR
8	ALUMINUM STOREFRONT WINDOWS AND DOORS, DARK BRONZE
9	P.C. CONC. SILL TRIM PIECE AND/OR CAP STONE, BUFF COLOR
10	MANUFACTURED STONE VENEER, BLEND OF TANS AND BROWNS
11	WOOD LOOK MANUFACTURED CONC. PLANKS, MEDIUM BROWN
12	FLASHING AND COUNTER FLASHING
13	STEEL BEAM, SEE STRUCT.
14	60 MIL TPO ROOFING, SEE SHEET A1.3 FOR ADD. INFO.
15	± 6" R-40 POLYISO RIGID INSULATION W/ PROTECTION BOARD
16	ROOFTOP HVAC UNITS BEYOND, SEE M SHEETS
17	SHEATHING OVER PRE-ENGINEERED ROOF JOISTS, SEE STRUCTURAL FOR ADDITIONAL INFORMATION
18	2x KICKER, SEE STRUCT. FOR ADDITIONAL INFO.
19	LINE OF WALL/BUILDING BEYOND
20	AIR INFILTRATION BARRIER/BLDG. WRAP TYP OVER ALL VERTICAL EXTERIOR SHEATHING AND INSIDE DOOR AND WINDOW OPENINGS
21	MIN. R-19 KRAFT FACED BATT INSULATION
22	2x WOOD FRAMING, SEE STRUCT.
23	EXTERIOR SHEATHING, SEE STRUCT.
24	HEADER, SEE STRUCT.
25	LVL BEAM, SEE STRUCT.
26	CONT. SEALANT (OVER BACKER WHERE APPROPRIATE) PER VARIOUS SYSTEM REQUIREMENTS AND BETWEEN DISSIMILAR MATERIALS, SEE SPECS AND MANUF. PRODUCT DATA AND INSTRUCTIONS
27	CONT. PRESURE TREATED BOTTOM PLATE OVER SILL SEAL AND ANCHOR BOLTS PER STRUCT.
28	EXTERIOR CONCRETE WALK, SLOPE AWAY FROM BUILDING, TYP.
29	5" CONCRETE SLAB ON GRADE OVER GRAVEL LAYER PER SOILS REPORT, SEE STRUCTRAL
30	VAPOR BARRIER UNDER SLAB TO BE 10 MIL. CLASS C POLYETHYLENE WITH SEALED JOINTS.
31	STRUCT. FILL, SEE STRUCT. AND SOILS REPORT
32	ISOLATION/EXPANSION MATERIAL
33	2" X 24" VERT RIGID INSUL CONT.
34	CONCRETE FOUNDATION, SEE STRUCTURAL
35	WATERPROOFING ON FOUNDATION AND OVER TOP OF FOOTING

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BUILDING SECTIONS

STATE OF COLORADO
PAUL J. BATTISTA
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LICENSED ARCHITECT

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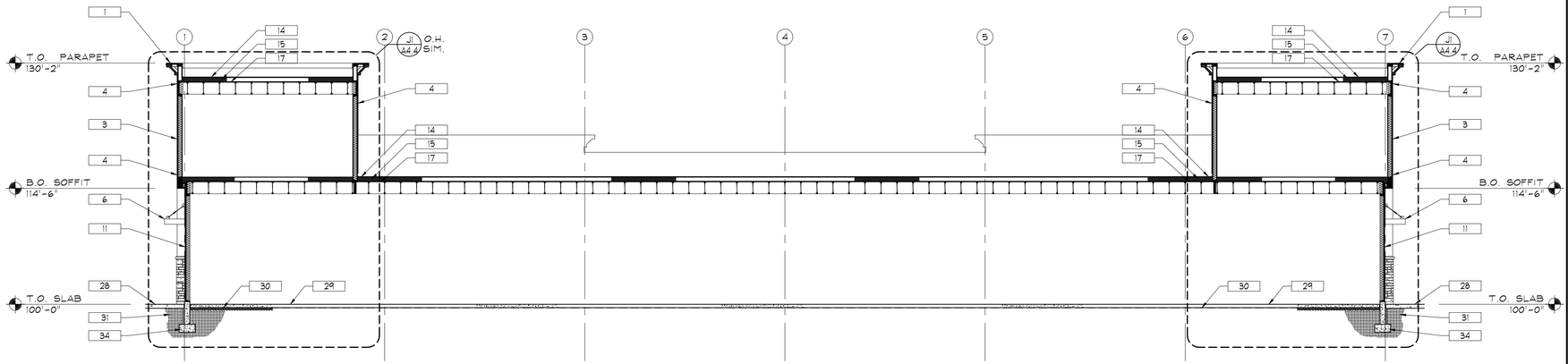
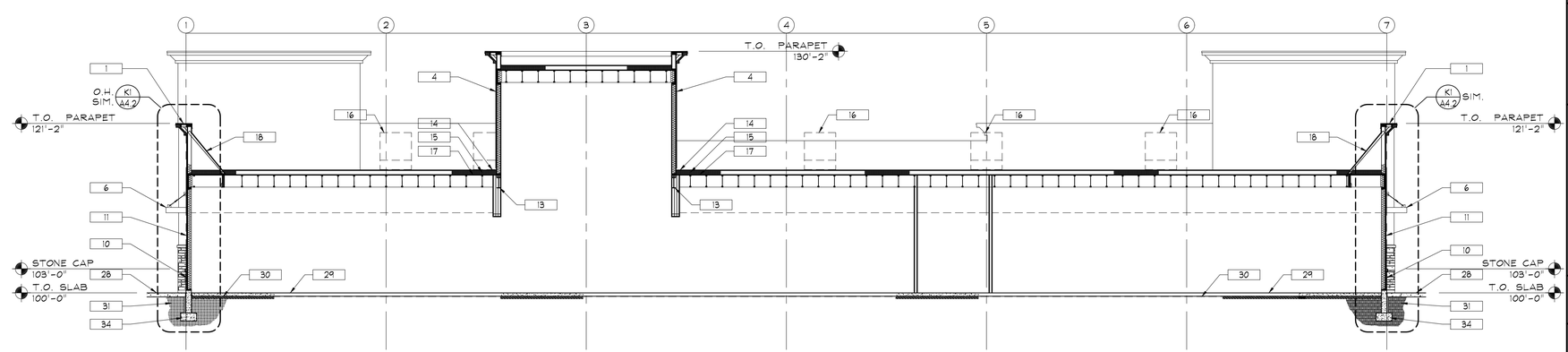


P6	BUILDING SECTION
1/8" = 1'-0"	



P1	BUILDING SECTION
1/8" = 1'-0"	

KEYNOTES:

1	METAL CAP FLASHING TO MATCH ADJACENT STUCCO CORNICE, DARK BROWN
2	STUCCO CORNICE, DARK BROWN
3	STUCCO FIELD COLOR #1, LIGHT TAN
4	STUCCO FIELD COLOR #2, MEDIUM TAN
5	STEEL PLATES, RODS AND TURNBUCKLES, DARK BRONZE
6	TUBE STEEL AWNINGS, DARK BRONZE
7	SLOPED STANDING SEAM METAL AWNINGS, DENIM BLUE COLOR
8	ALUMINUM STOREFRONT WINDOWS AND DOORS, DARK BRONZE
9	P.C. CONC. SILL TRIM PIECE AND/OR CAP STONE, BUFF COLOR
10	MANUFACTURED STONE VENEER, BLEND OF TANS AND BROWNS
11	WOOD LOOK MANUFACTURED CONC. PLANKS, MEDIUM BROWN
12	FLASHING AND COUNTER FLASHING
13	STEEL BEAM, SEE STRUCT.
14	60 MIL TPO ROOFING, SEE SHEET A1.3 FOR ADD. INFO.
15	± 6" R-40 POLYISO RIGID INSULATION W/ PROTECTION BOARD
16	ROOFTOP HVAC UNITS BEYOND, SEE M SHEETS
17	SHEATHING OVER PRE-ENGINEERED ROOF JOISTS, SEE STRUCTURAL FOR ADDITIONAL INFORMATION
18	2x KICKER, SEE STRUCT. FOR ADDITIONAL INFO.
19	LINE OF WALL/BUILDING BEYOND
20	AIR INFILTRATION BARRIER/BLDG. WRAP TYP OVER ALL VERTICAL EXTERIOR SHEATHING AND INSIDE DOOR AND WINDOW OPENINGS
21	MIN. R-19 KRAFT FACED BATT INSULATION
22	2x WOOD FRAMING, SEE STRUCT.
23	EXTERIOR SHEATHING, SEE STRUCT.
24	HEADER, SEE STRUCT.
25	LVL BEAM, SEE STRUCT.
26	CONT. SEALANT (OVER BACKER WHERE APPROPRIATE) PER VARIOUS SYSTEM REQUIREMENTS AND BETWEEN DISSIMILAR MATERIALS, SEE SPECS AND MANUF. PRODUCT DATA AND INSTRUCTIONS
27	CONT. PRESURE TREATED BOTTOM PLATE OVER SILL SEAL AND ANCHOR BOLTS PER STRUCT.
28	EXTERIOR CONCRETE WALK, SLOPE AWAY FROM BUILDING, TYP.
29	5" CONCRETE SLAB ON GRADE OVER GRAVEL LAYER PER SOILS REPORT, SEE STRUCTRAL
30	VAPOR BARRIER UNDER SLAB TO BE 10 MIL. CLASS C POLYETHYLENE WITH SEALED JOINTS.
31	STRUCT. FILL, SEE STRUCT. AND SOILS REPORT
32	ISOLATION/EXPANSION MATERIAL
33	2" X 24" VERT RIGID INSUL CONT.
34	CONCRETE FOUNDATION, SEE STRUCTURAL
35	WATERPROOFING ON FOUNDATION AND OVER TOP OF FOOTING

No	Revision / Submissions	Date

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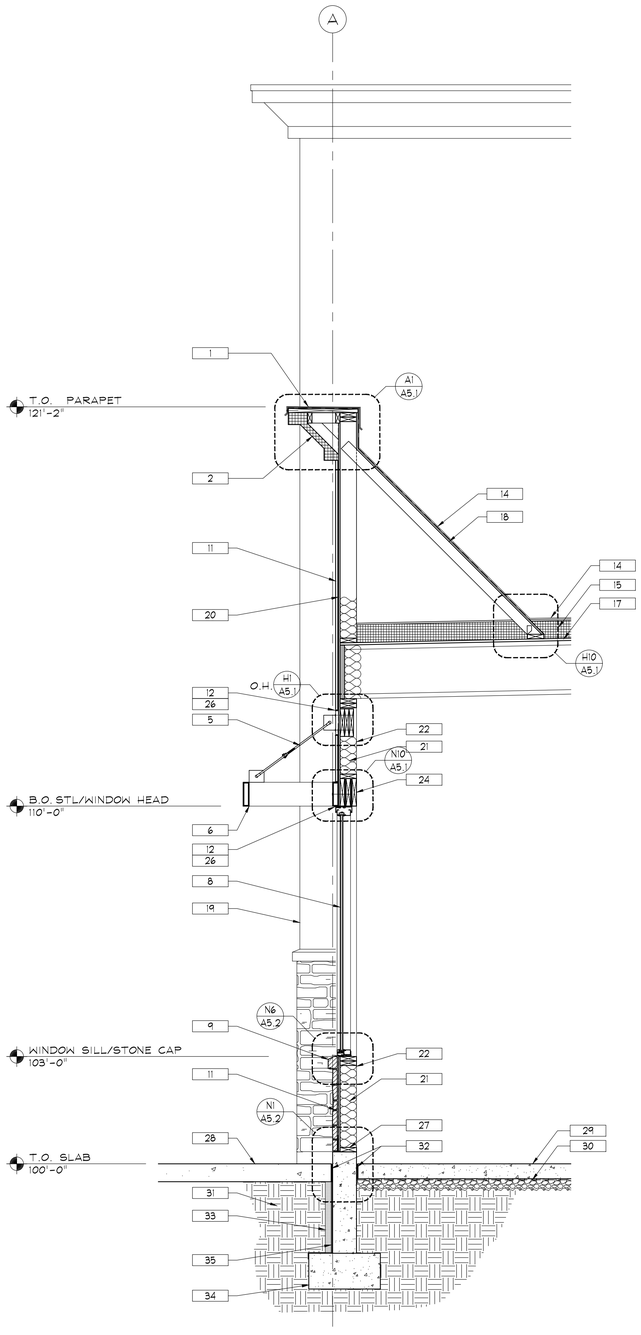
BATTISTA DESIGN GROUP

SVA GREELEY
Shell Building
1911 59th AVENUE
GREELEY, CO 80634

BUILDING SECTIONS

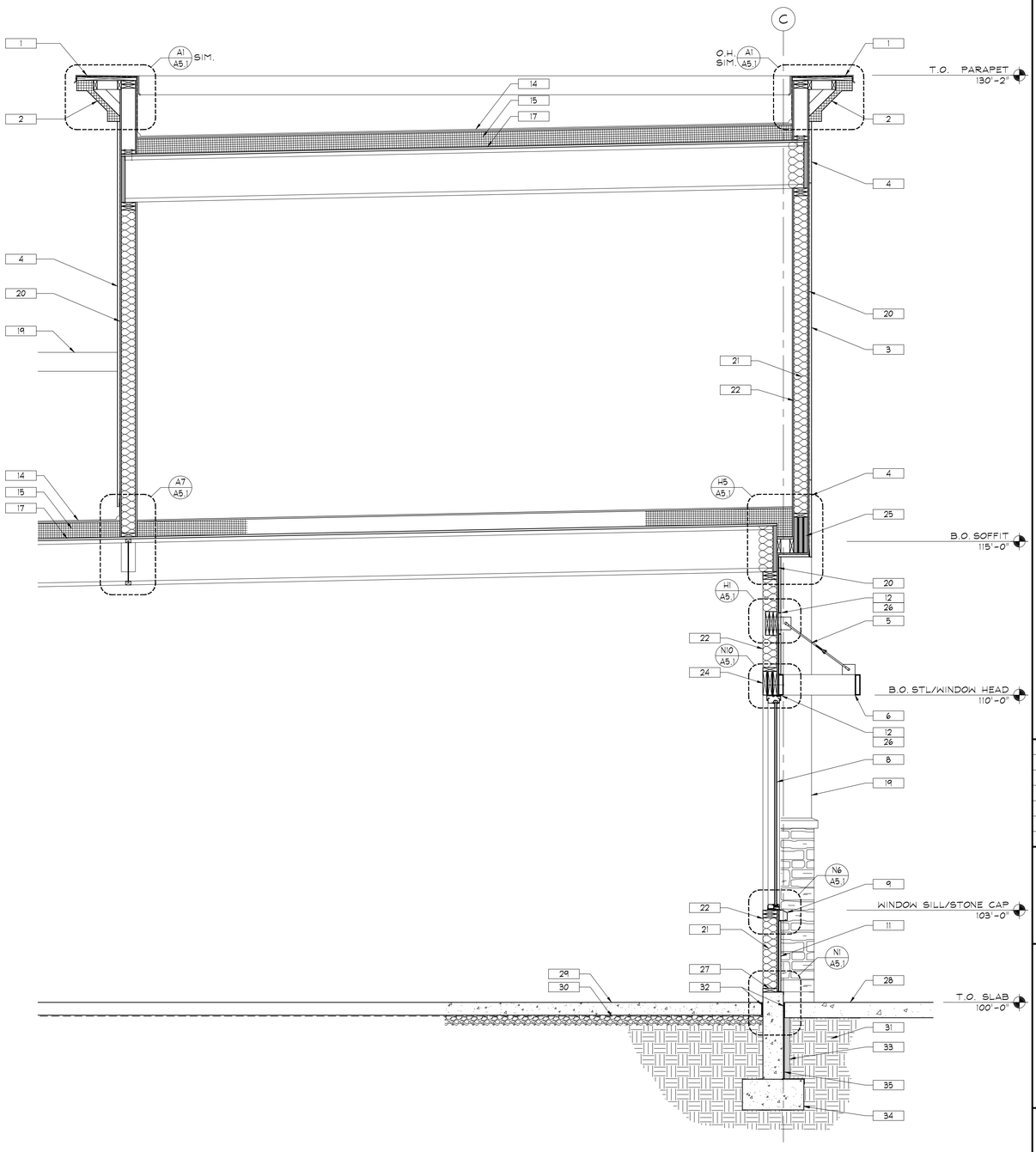
STATE OF COLORADO
PAUL J. BATTISTA
B-3015
02/11/2025
LICENSED ARCHITECT

Designed: PJB	Project Number: SVA2025
Drawn: IJF	Scale: As Shown
Checked: PJB	Drawing Number: A3.4
Reviewed: PJB	
Date: Feb., 2025	of



A1 WALL SECTION

1/2" = 1'-0"



J1 WALL SECTION

1/2" = 1'-0"

KEYNOTES:

1	METAL CAP FLASHING TO MATCH ADJACENT STUCCO CORNICE, DARK BROWN
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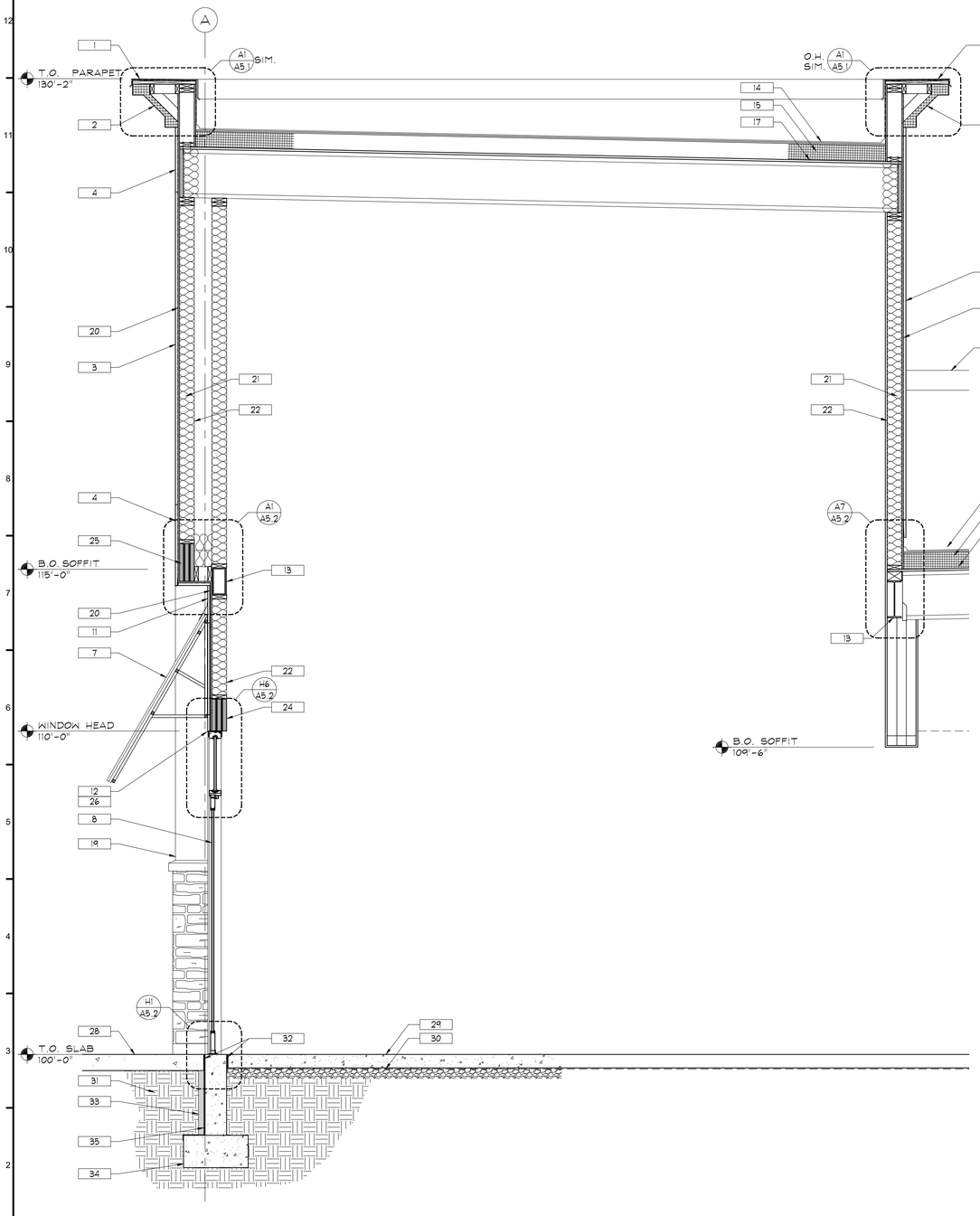
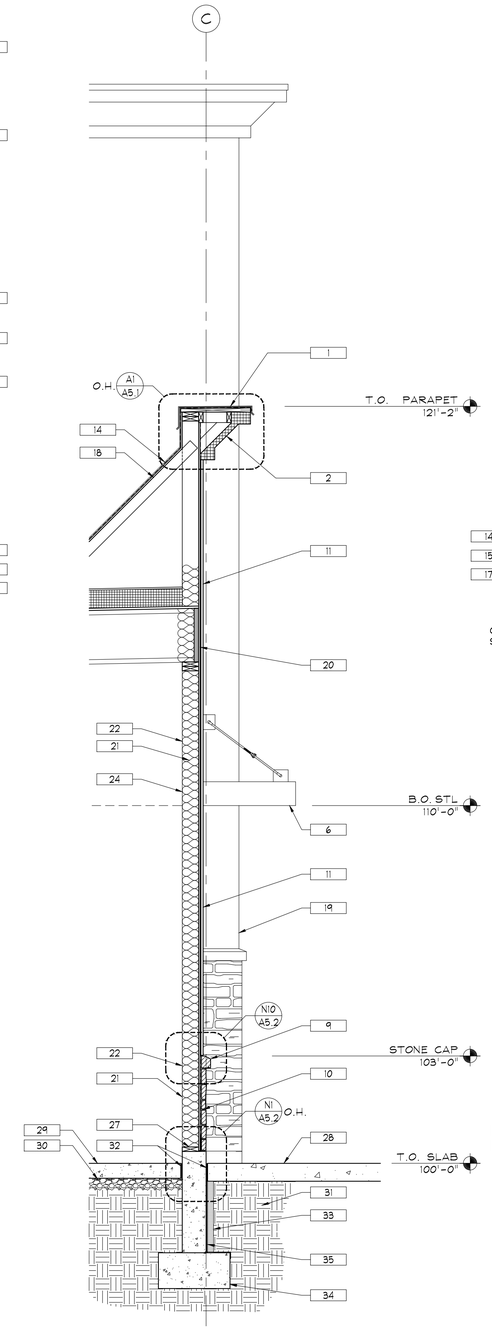
WALL SECTIONS

STATE OF COLORADO
PAUL J. BATTISTA
B-3015
02/11/2025
LICENSED ARCHITECT

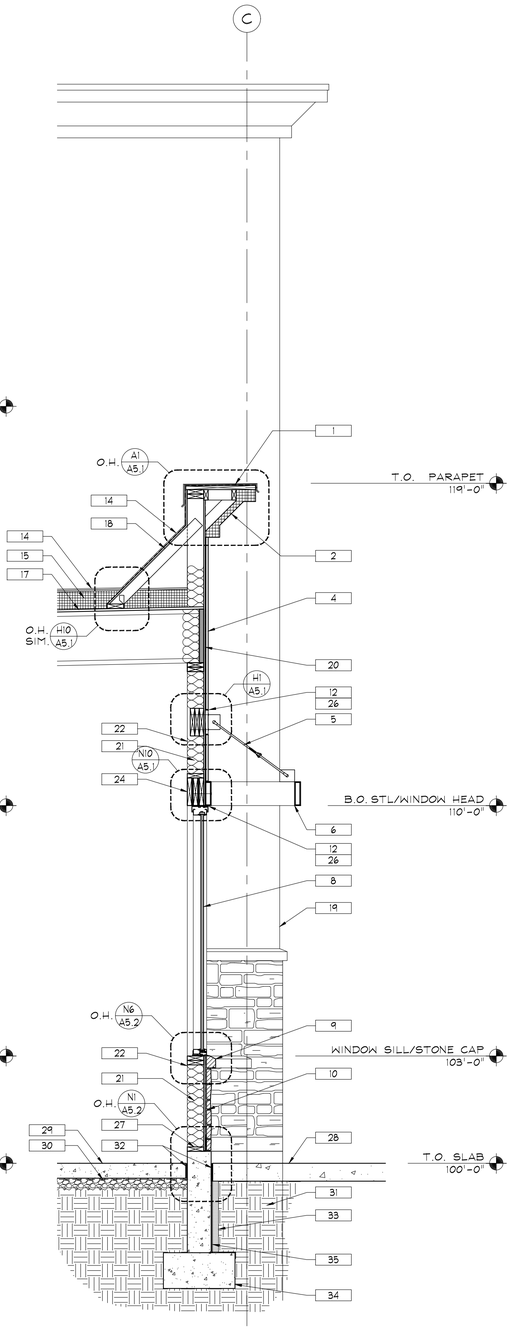
Designed: PJB	Project Number: SVA2025
Drawn: IJF	Scale: As Shown
Checked: PJB	Drawing Number: A4.1
Reviewed: PJB	
Date: Feb., 2025	of



A1	WALL SECTION
1/2" = 1'-0"	



K1	WALL SECTION
1/2" = 1'-0"	



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1/2" = 1'-0"	

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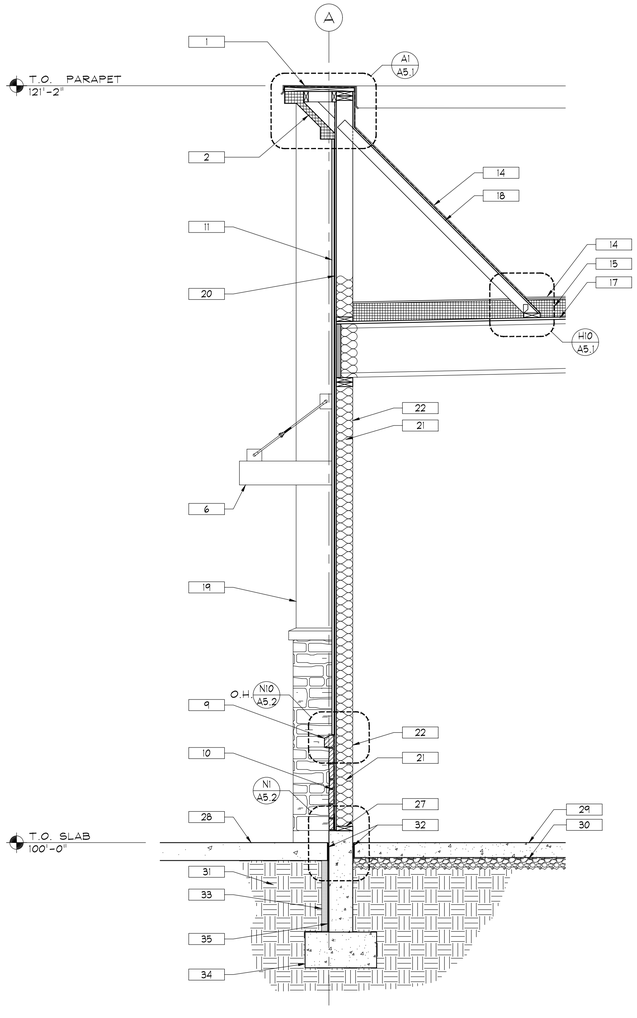
WALL SECTIONS

STATE OF COLORADO
PAUL J. BATTISTA
B-3015
02/11/2025
LICENSED ARCHITECT

Designed: PJB	Project Number: SVA2025
Drawn: IJF	Scale: As Shown
Checked: PJB	Drawing Number: A4.2
Reviewed: PJB	
Date: Feb., 2025	of



A1 WALL SECTION

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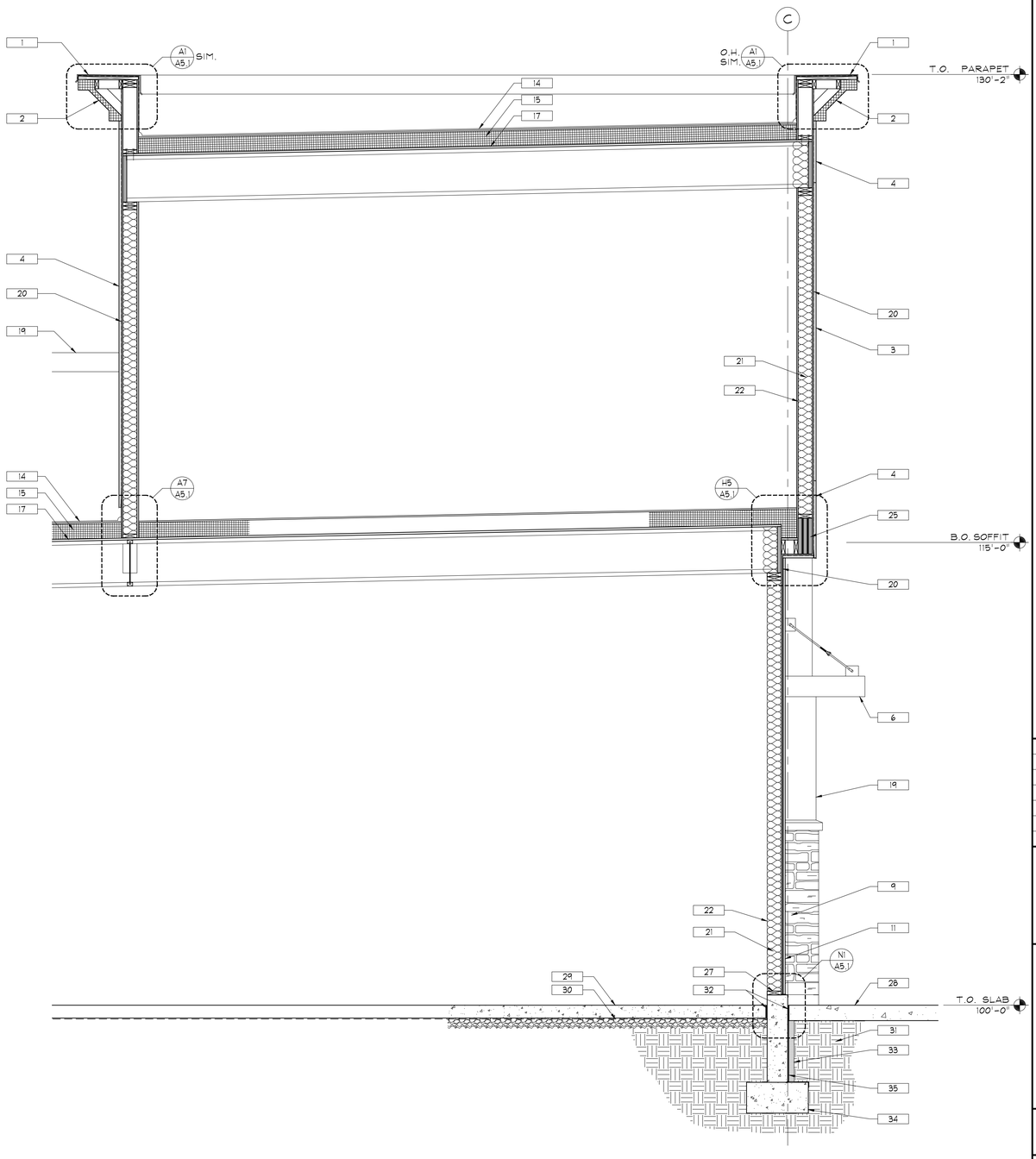

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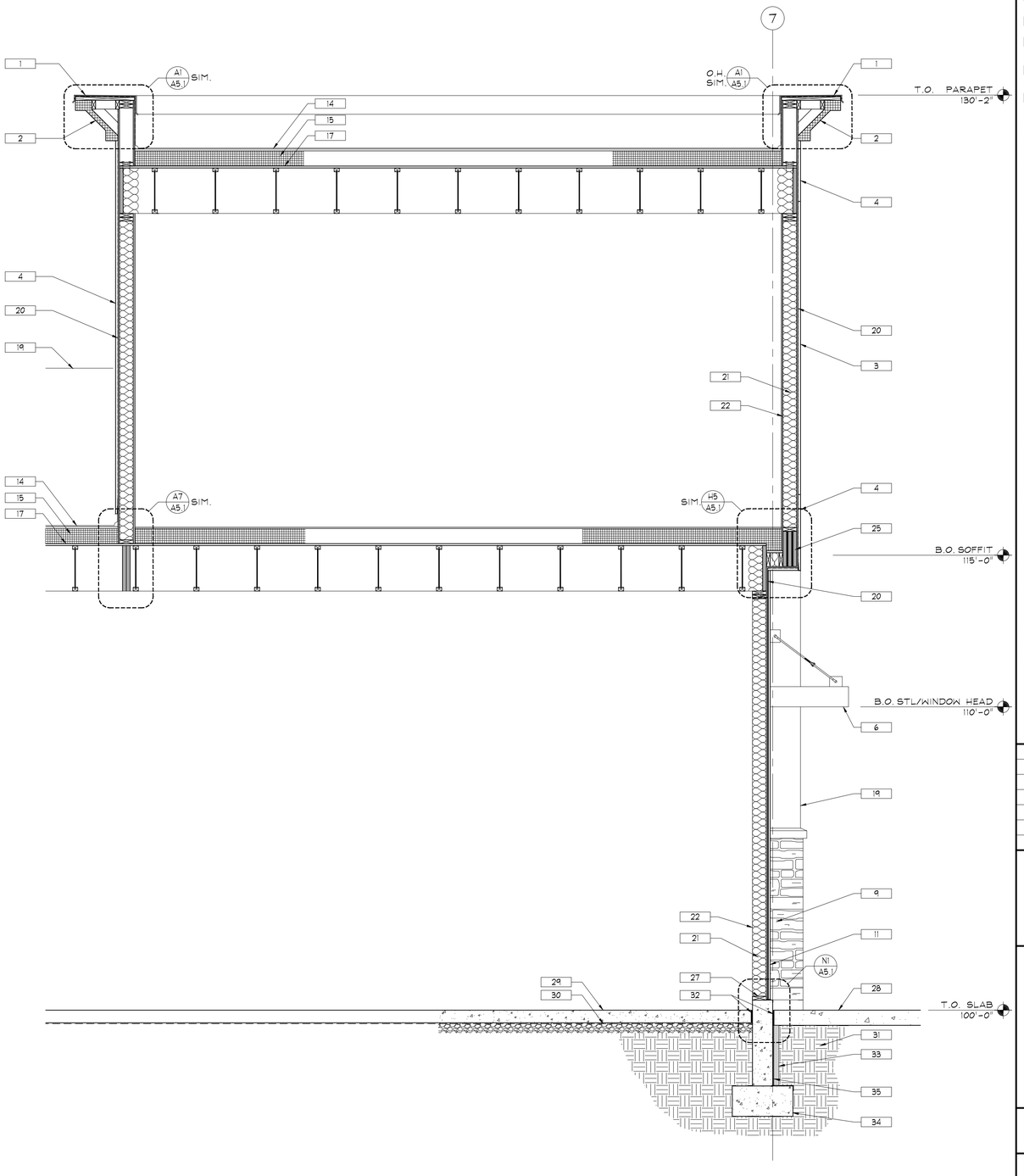
WALL SECTIONS

STATE OF COLORADO
PAUL J. BATTISTA
B-3015
02/11/2025
LICENSED ARCHITECT

Designed: PJB	Project Number: SVA2025
Drawn: IJF	Scale: As Shown
Checked: PJB	Drawing Number: A4.3
Reviewed: PJB	
Date: Feb., 2025	of



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WALL SECTIONS

J1	WALL SECTION
1/2" = 1'-0"	

STATE OF COLORADO · PAUL J. BATTISTA B-3015 02/11/2025 · LICENSED ARCHITECT

Designed: PJB	Project Number: SVA2025
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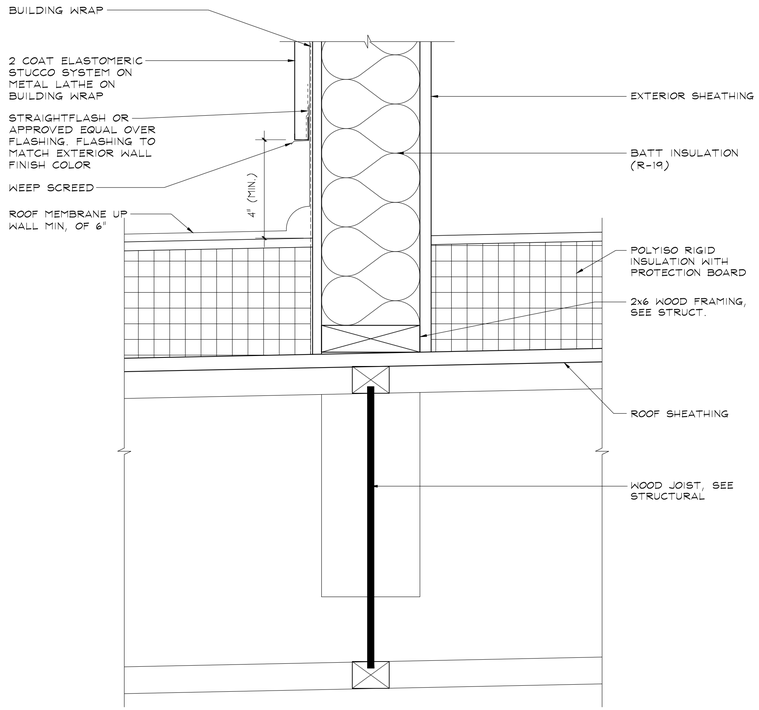
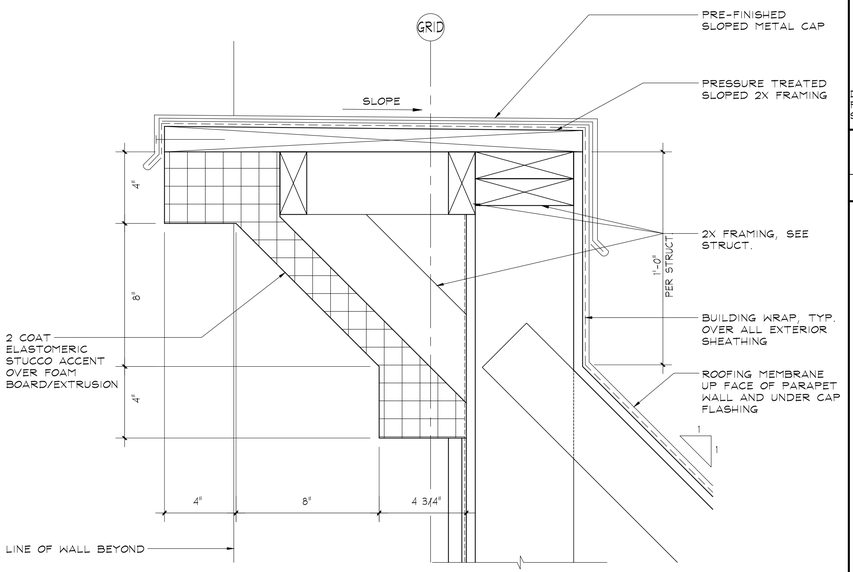


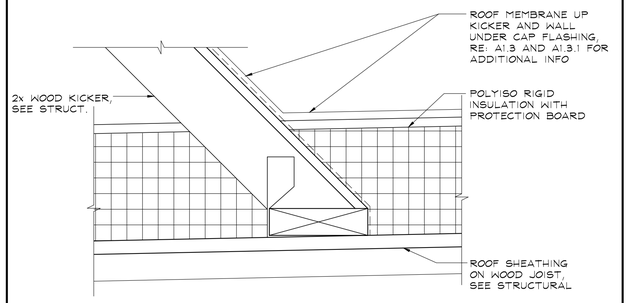
A7 — TOWER WALL @ ROOF

3" = 1'-0"



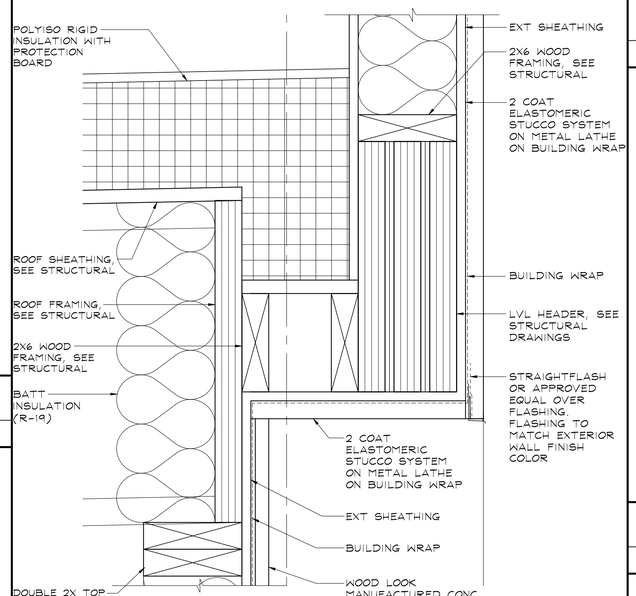
A1 — PARAPET @ STUCCO CORNICE

3" = 1'-0"



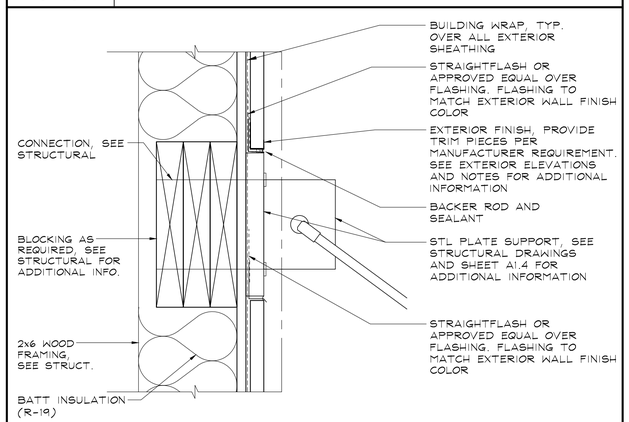
H10 — KICKER @ ROOF

3" = 1'-0"



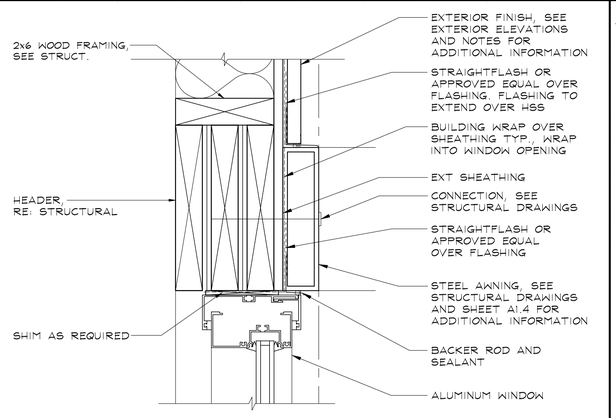
H5 — EXTERIOR SOFFIT

3" = 1'-0"



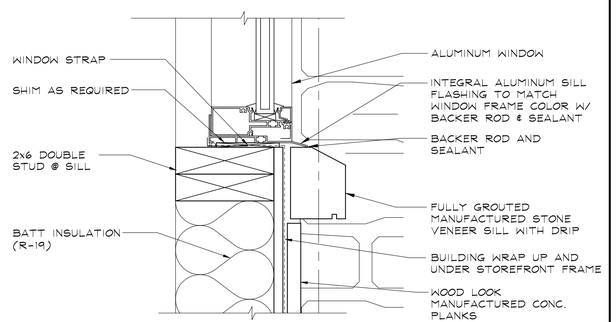
H1 — AWNING CONNECTION

3" = 1'-0"



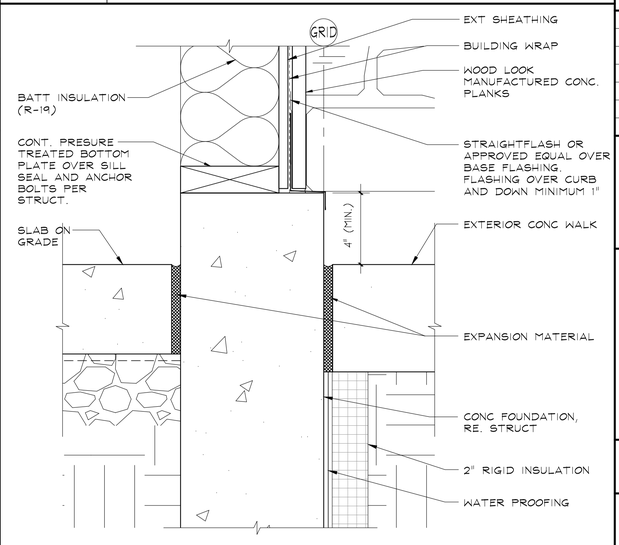
N10 — WINDOW HEAD @ WOOD LOOK CONCRETE PLANKS AND AWNING

3" = 1'-0"



N6 — WINDOW SILL @ WOOD LOOK CONCRETE PLANKS

3" = 1'-0"



N1 — BASE @ WOOD LOOK CONCRETE PLANKS

3" = 1'-0"

NOTES:

1. SEE EXTERIOR ELEVATIONS AND BUILDING SECTIONS FOR ADDITIONAL INFO ON FINISHES.
2. DRYWALL AND AIR BARRIER IN OCCUPIED SPACE BY TENANT FINISH.
3. STUCCO LOCATIONS, COORDINATE WITH EXTERIOR ELEVATIONS FOR LOCATION - PROVIDE 2 COAT ELASTOMERIC STUCCO SYSTEM ON METAL LATHE ON BUILDING WRAP.
4. TILE LOCATIONS, COORDINATE WITH EXTERIOR ELEVATIONS FOR LOCATION - PROVIDE MEMBRANE, LATH SCRATCH & BROWN COAT, MORTAR BED, WATERPROOFING AND MEGALITE CRACK PREVENTION TO FOLLOW TILE MANUFACTURER INSTALLATION REQUIREMENTS.
5. PROVIDE CONTINUOUS SEALANT OVER BACKER ROD AS REQUIRED FOR VARIOUS SYSTEM REQUIREMENTS AND AT ALL JOINTS WHERE DISSIMILAR MATERIALS INTERSECT AND ARE PERPENDICULAR TO EACH OTHER.

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DETAILS

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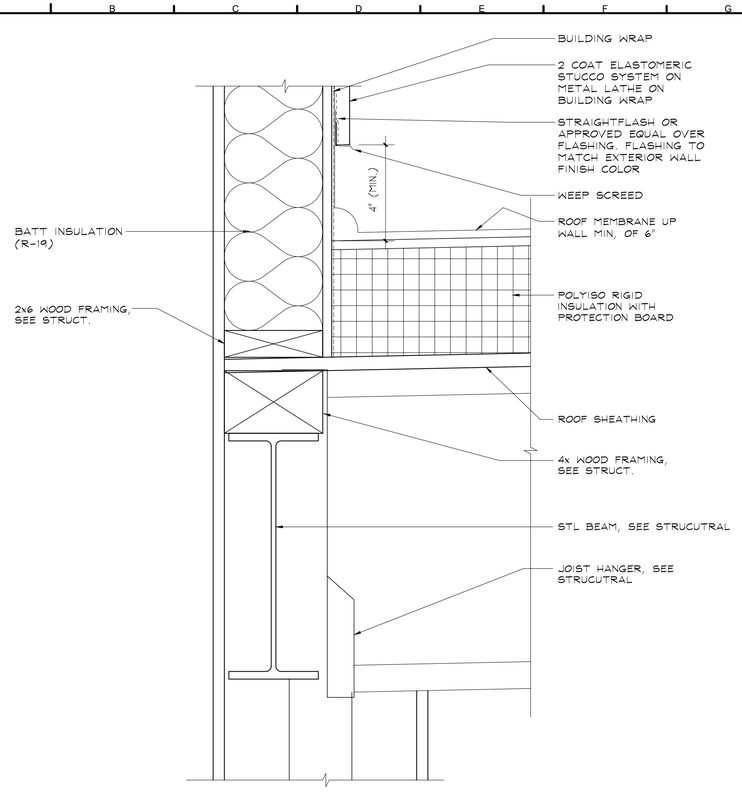
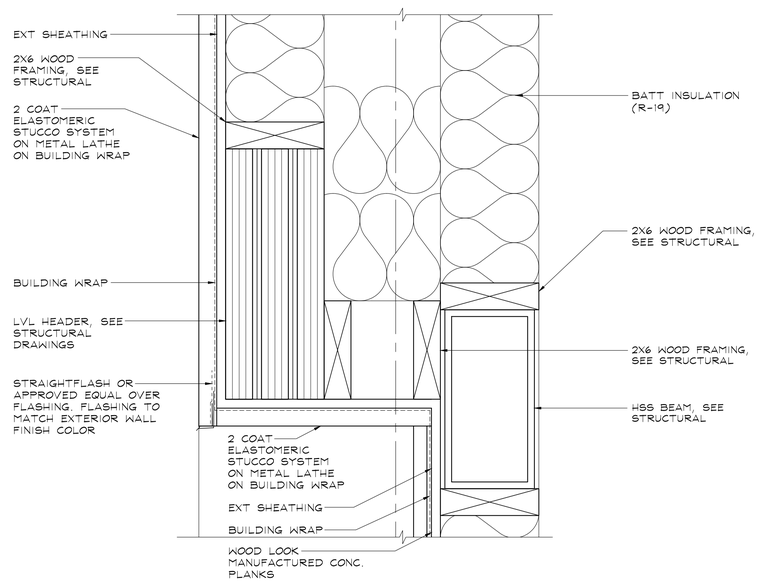


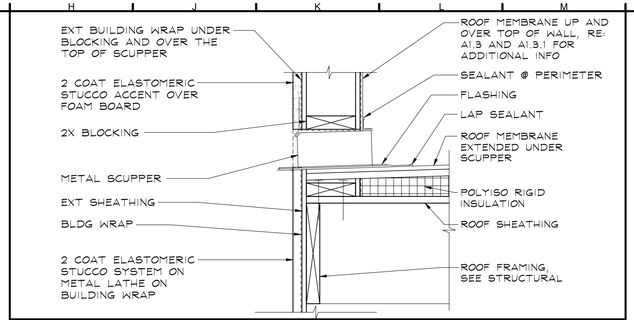
A7 TOWER WALL @ BEAM

3" = 1'-0"



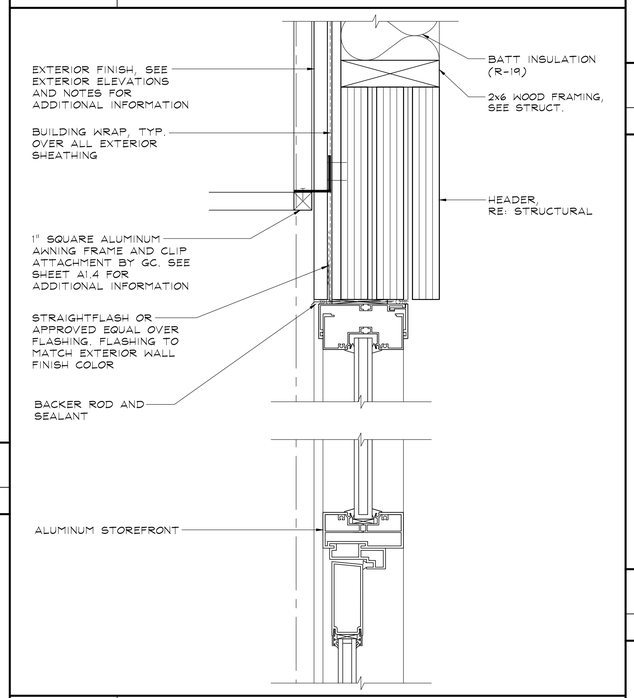
A1 EXTERIOR SOFFIT @ ENTRY

3" = 1'-0"



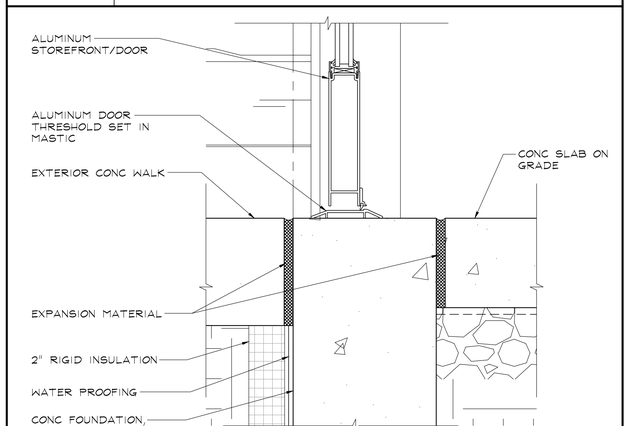
H11 THRU-WALL SCUPPER

1 1/2" = 1'-0"



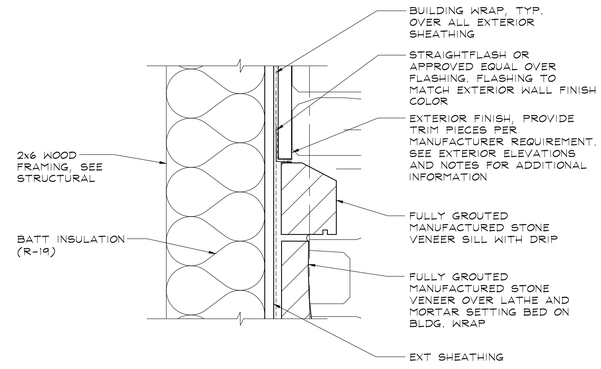
H5 WINDOW/DOOR HEAD

3" = 1'-0"



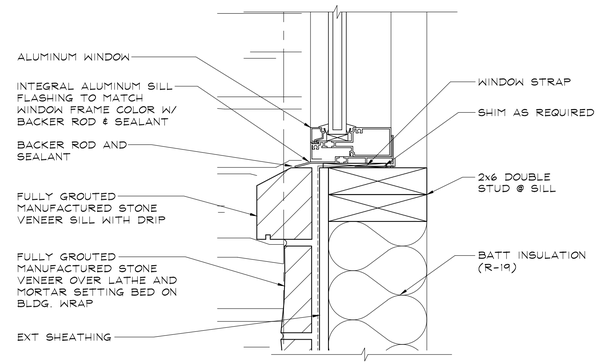
H1 ALUMINUM THRESHOLD

3" = 1'-0"



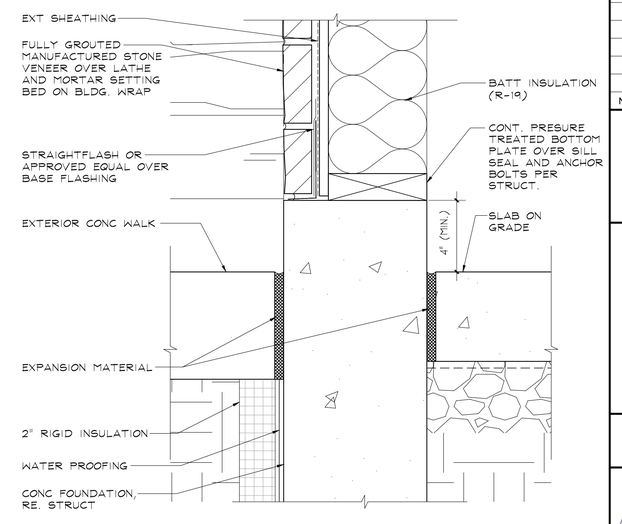
N10 WOOD LOOK TILE @ STONE CAP

3" = 1'-0"



N6 WINDOW SILL @ STONE

3" = 1'-0"



N1 BASE @ STONE

3" = 1'-0"

NOTES:

1. SEE EXTERIOR ELEVATIONS AND BUILDING SECTIONS FOR ADDITIONAL INFO ON FINISHES.
2. DRYWALL AND AIR BARRIER IN OCCUPIED SPACE BY TENANT FINISH.
3. STUCCO LOCATIONS, COORDINATE WITH EXTERIOR ELEVATIONS FOR LOCATION - PROVIDE 2 COAT ELASTOMERIC STUCCO SYSTEM ON METAL LATHE ON BUILDING WRAP.
4. TILE LOCATIONS, COORDINATE WITH EXTERIOR ELEVATIONS FOR LOCATION - PROVIDE MEMBRANE, LATH SCRATCH & BROWN COAT, MORTAR BED, WATERPROOFING AND MEGALITE CRACK PREVENTION TO FOLLOW TILE MANUFACTURER INSTALLATION REQUIREMENTS.

No	Revision / Submissions	Date

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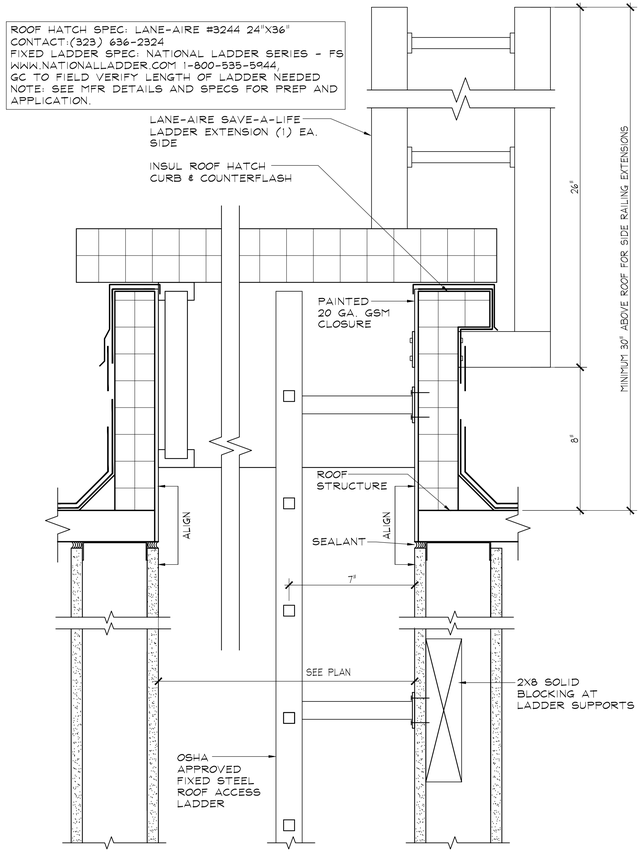
DETAILS

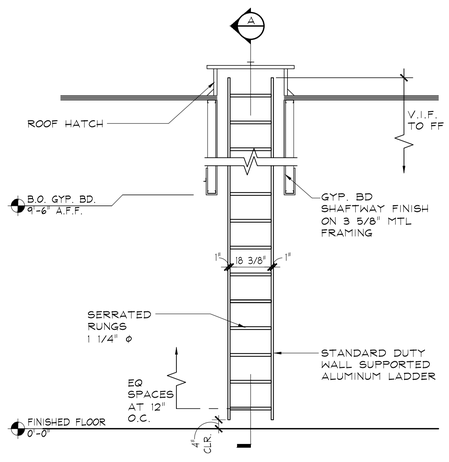
STATE OF COLORADO — PAUL J. BATTISTA B-3015 02/11/2025 — LICENSED ARCHITECT

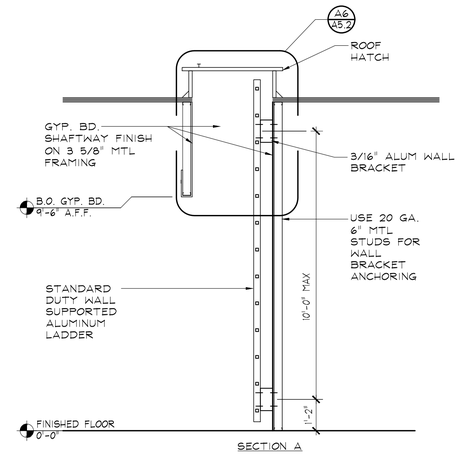
Designed: PJB	Project Number: SVA2025
Drawn: IJF	Scale: As Shown
Checked: PJB	Drawing Number: A5.2
Reviewed: PJB	
Date: Feb., 2025	of



A6 — ROOF HATCH

3" = 1'-0"

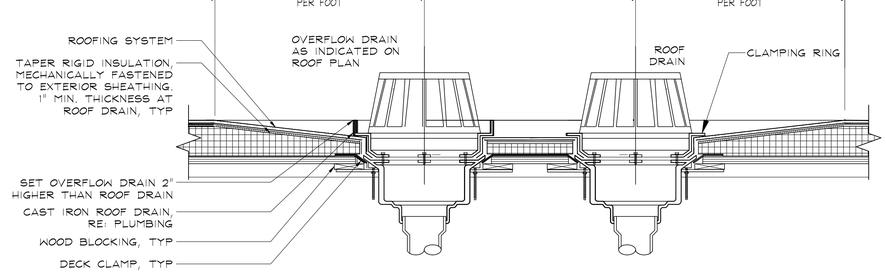


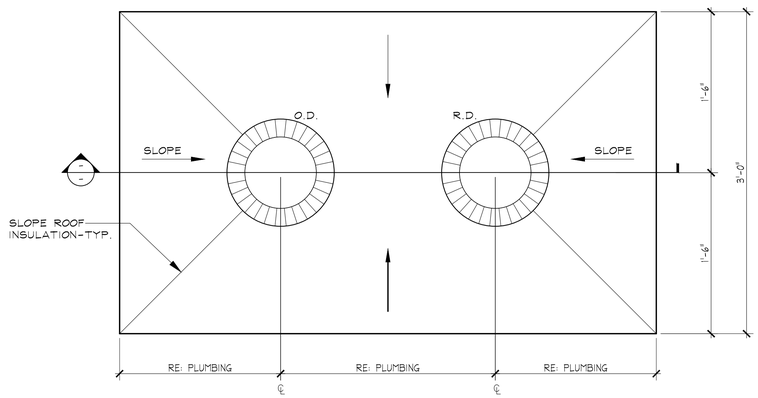


SECTION A

K8 — ROOF ACCESS LADDER

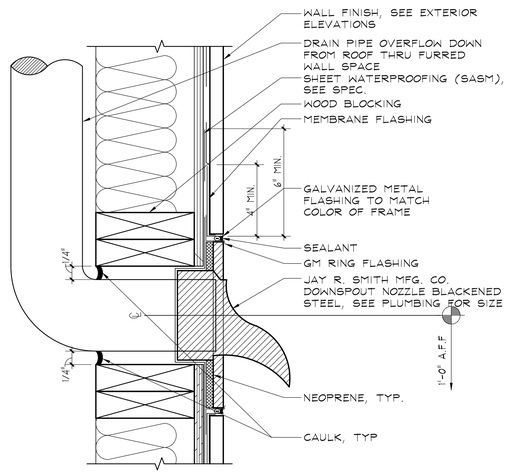
3/8" = 1'-0"





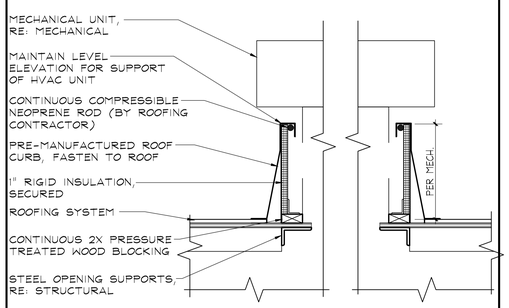
K1 — ROOF AND OVERFLOW DRAIN

1 1/2" = 1'-0"



A1 — ROOF/OVERFLOW THRU-WALL LAMBS-TONGUE

3" = 1'-0"



F1 — MECHANICAL ROOF CURB

1" = 1'-0"

No	Revision / Submissions	Date

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DETAILS

STATE OF COLORADO
PAUL J. BATTISTA
B-3015
02/11/2025
LICENSED ARCHITECT

Designed:	Project Number: SVA2025
Drawn:	Scale: As Shown
Checked:	Drawing Number:
Reviewed:	A5.3
Date: Feb., 2025	of

ABBREVIATIONS

(E)	EXISTING	lb(s)	POUND(S)
/	PER	LLH	LONG LEG HORIZONTAL
@	AT	LLV	LONG LEG VERTICAL
AB	ANCHOR BOLT	LONG	LONGITUDINAL
ABV	ABOVE	LRFD	LOAD RESISTANCE FACTOR DESIGN
ADDL	ADDITIONAL	LT	LIGHT
ADJ	ADJUSTABLE	LT WT	LIGHT WEIGHT
AESS	ARCH. EXPOSED STRUCT. STEEL	LTL	LINTEL
AFF	ABOVE FINISHED FLOOR	LVL	LAMINATED VENEER LUMBER
AHJ	AUTHORITY HAVING JURISDICTION	MAS	MASONRY
AHU	AIR HANDLING UNIT	MAT	MATERIAL(S)
ALT	ALTERNATE	MAX	MAXIMUM
ALUM	ALUMINUM	MECH	MECHANICAL
APPROX	APPROXIMATE	MED	MEDIUM
ARCH	ARCHITECT(URAL)	MEP	MECHANICAL/ELECTRICAL/PLUMBING
ASD	ALLOWABLE STRESS DESIGN	MEZZ	MEZZANINE
BD	BOARD	MFR	MANUFACTURE / MANUFACTURER
BL	BRICK LEDGE	MIN	MINIMUM
BLDG	BUILDING	MISC	MISCELLANEOUS
BLKG	BLOCKING	ML	MICROLLAM
BM	BEAM	MTL	METAL
BO	BOTTOM OF	N	NORTH
BOD	BASIS OF DESIGN	N/S	NEAR SIDE
BOTT	BOTTOM	NO	NUMBER
BRG	BEARING	NOM	NOMINAL
BSMT	BASEMENT	NTS	NOT TO SCALE
BTWN	BETWEEN	oc	ON CENTER
CANT	CANTILEVER	OD	OUTSIDE DIAMETER
CF	COLD-FORMED	OF	OUTSIDE FACE
CIP	CAST-IN-PLACE	OH	OVERHEAD / OPPOSITE HAND
CJ	CONTROL JOINT	OPNG	OPENING
CJP	COMPLETE JOINT PENETRATION	OPP	OPPOSITE
CL	CENTER LINE	OSB	ORIENTED STRAND BOARD
CLG	CEILING	PAF	POWDER ACTUATED FASTENER
CLR	CLEAR	PC	PRECAST
CMU	CONCRETE MASONRY UNIT	PEN	PENETRATION
CNTRD	CENTERED	PERIM	PERIMETER
COL	COLUMN	PERP	PERPENDICULAR
CONC	CONCRETE	PJP	PARTIAL JOINT PENETRATION
CONN	CONNECTION	PL	PLATE
CONST	CONSTRUCTION	PLBG	PLUMBING
CONT	CONTINUOUS	plf	POUNDS PER LINEAL FOOT
COORD	COORDINATE	PLWD	PLYWOOD
D / DL	DEAD LOAD	psf	POUNDS PER SQUARE FOOT
DBL	DOUBLE	psi	POUNDS PER SQUARE INCH
DIA	DIAMETER	PT	POST-TENSIONED/PRESSURE TREATED
DIAG	DIAGONAL	RAD	RADIUS
DIM	DIMENSION	RE	REFERENCE / REFER TO
DIV	DIVISION	REINF	REINFORCED(ING)
DN	DOWN	REQD	REQUIRED
DTL	DETAIL	REV	REVISION
DWG	DRAWING	RO	ROUGH OPENING
DWL	DOWEL	RTU	ROOF TOP UNIT
E	EARTHQUAKE/SEISMIC LOAD / EAST	S	SOUTH
E/F	EACH FACE	S / SL	SNOW LOAD
E/S	EACH SIDE	SA	SUPPLY AIR
EA	EACH	SC	SLIP-CRITICAL
EIFS	EXTERIOR INSUL. FINISH SYSTEM	SCHED	SCHEDULE
EJ	EXPANSION JOINT	SECT	SECTION
ELEC	ELECTRIC(AL)	SF	SQUARE FEET
ELEV	ELEVATION	SHT	SHEET
EMBED	EMBEDMENT	SIM	SIMILAR
ENCL	ENCLOSURE	SOG	SLAB-ON-GRADE
ENGR	ENGINEER	SPEC	SPECIFICATION(S)
EO	EDGE OF	SQ	SQUARE
EOR	ENGINEER OF RECORD	SS	STAINLESS STEEL
EQ	EQUAL	STD	STANDARD
EQUIP	EQUIPMENT	STIFF	STIFFENER
EST	ESTIMATE	STL	STEEL
EXP	EXPANSION	STOR	STORAGE
EXT	EXTERIOR	STRUCT	STRUCTURAL
F/S	FAR SIDE	SYM	SYMMETRICAL
FF	FINISH FLOOR	T&B	TOP AND BOTTOM
FFE	FINISHED FLOOR ELEVATION	T&G	TONGUE AND GROOVE
FIN	FINISH(ED)	T/C	TENSION-CONTROL
FNDN	FOUNDATION	TBD	TO BE DETERMINED
FO	FACE OF	THK	THICK(NESS)
FT	FEET/FOOT	THRU	THROUGH
FTG	FOOTING	TL	TOTAL LOAD
FV	FIELD VERIFY	TO	TOP OF
GA	GAUGE	TOBL	TOP OF BRICK LEDGE
GALV	GALVANIZED	TOC	TOP OF CONCRETE
GC	GENERAL CONTRACTOR	TOF	TOP OF FOOTING
GYP	GYPSUM	TOM	TOP OF MASONRY
GYP BD	GYPSUM BOARD	TOP	TOP OF PILASTER / PIER
HAS	HEADED ANCHOR STUD	TOS	TOP OF STEEL / SLAB
HORZ	HORIZONTAL	TOW	TOP OF WALL
HSS	HOLLOW STRUCTURAL SECTION	TRANSV	TRANSVERSE
HT	HEIGHT	TS	TUBE STEEL
HVAC	HEATING/VENTILATING/AIR CONDITIONING	TYP	TYPICAL
IBC	INTERNATIONAL BUILDING CODE	ULT	ULTIMATE
ID	INSIDE DIAMETER	UNO	UNLESS NOTED OTHERWISE
IF	INSIDE FACE	VERT	VERTICAL
IN	INCHES / INCH	VIF	VERIFY IN FIELD
INCL	INCLUDING	W	WIDE/WIDTH
INSUL	INSULATION / INSULATING	W	WIND LOAD
INT	INTERIOR	W/	WITH
JNT	JOINT	W/C	WATER/CEMENT
JST	JOIST	W/O	WITHOUT
K	KIPS	WD	WOOD
klf	KIPS PER LINEAL FOOT	WF	WIDE-FLANGE
ksf	KIPS PER SQUARE FOOT	WP	WORK POINT
ksi	KIPS PER SQUARE INCH	WT	WEIGHT
L / LL	LIVE LOAD	WWR	WELDED WIRE REINFORCING

SYMBOLS

NORTH ARROW

SECTION DETAIL — 1 / S1 — DETAIL NUMBER, SHEET REFERENCE

PLAN / GENERAL DETAIL — 1 / S1 — DETAIL NUMBER, SHEET REFERENCE

ELEVATION DETAIL — 1 / S1

SPOT ELEVATION — XXXXX / XXX'–XX"

GRIDLINE - NEW — X

GRIDLINE - EXISTING — X

BOXED NOTE INDICATES TYPICAL NOTE — XXXXXXX XXXXXXX

SPAN DIRECTION OF DECK/SHEATHING

MOMENT CONNECTION

REVISION NUMBER — 1

CLOUD REVISION

FOOTING/DRILLED PIER TYPE — #

COLUMN TYPE — X

STEP

SLOPE

GRAPHIC SCALE BAR — 0' 2' 4' 8'

MATERIALS

CAST-IN-PLACE CONCRETE

PRECAST OR EXISTING CONCRETE

STEEL

CONCRETE MASONRY

BRICK MASONRY

SOIL SUBGRADE

GRAVEL FILL

RIGID INSULATION

SHEET INDEX

SHEET #	SHEET NAME
S1.0	COVER SHEET, DESIGN CRITERIA & PROJECT NOTES
S1.1	STRUCTURAL SPECIAL INSPECTIONS & SCHEDULES
S1.2	TYPICAL DETAILS & TRASH ENCLOSURE
S1.3	ROOF DESIGN LOAD DIAGRAMS
S2.1A	FOUNDATION/FLOOR PLAN - NORTH
S2.1B	FOUNDATION/FLOOR PLAN - SOUTH
S2.2A	MAIN ROOF FRAMING PLAN - NORTH
S2.2B	MAIN ROOF FRAMING PLAN - SOUTH
S2.3A	UPPER ROOF FRAMING PLAN - NORTH
S2.3B	UPPER ROOF FRAMING PLAN - SOUTH
S3.1	FOUNDATION / FLOOR DETAILS
S4.1	FRAMING DETAILS

NOTE TO CONTRACTOR

READ ALL STRUCTURAL NOTES AND COORDINATE WITH THE STRUCTURAL ENGINEER TO RESOLVE ANY QUESTIONS, DISCREPANCIES, OR CONFLICTS PRIOR TO COMMENCING WITH CONSTRUCTION OPERATIONS.

CONTRACTOR SHALL INFORM AND UPDATE THE STRUCTURAL ENGINEER AS TO THE STATUS AND SCHEDULE OF CONSTRUCTION, AND SHALL COORDINATE WITH THE STRUCTURAL ENGINEER TO SCHEDULE PERIODIC SITE VISITS TO OBSERVE COMPLETED AND ONGOING PORTION OF THE WORK.

STRUCTURAL ENGINEER'S APPROVAL OF ALL REQUIRED SUBMITTALS INDICATED IN THE GENERAL NOTES SHALL BE PROCURED PRIOR TO FABRICATION OR CONSTRUCTION OF EACH APPLICABLE PORTION OF THE WORK.

COORDINATE ALL REQUIRED STRUCTURAL SPECIAL INSPECTIONS AND TESTS WITH THE INSPECTION AGENCY ENGAGED BY THE OWNER.

DESIGN CRITERIA

1. CODES & STANDARDS:
- A. INTERNATIONAL BUILDING CODE 2021 EDITION
- B. GREELEY, COLORADO CODE AMENDMENTS
- C. ASCE/SEI 7-16 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
- D. ACI 318-19 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
- E. ANSI/AISC 360-16 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS
- F. ANSI/AWC NDS-2018 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION
- G. TMS 402/602-2016 BUILDING CODE AND SPECIFICATIONS FOR MASONRY STRUCTURES

2. GRAVITY LOADS USED IN DESIGN:
- A. ROOF SNOW LOAD — 30 psf + DRIFTING REQUIREMENTS
- B. SUPERIMPOSED ROOF DEAD LOAD — 15 psf
- C. FLOOR LIVE LOAD — 50 psf
- D. OFFICE PARTITION LIVE LOAD — 15 psf
- E. LOBBY, 1^{ST} FLOOR CORRIDOR LIVE LOAD — 100 psf
- F. MECHANICAL EQUIPMENT LOADS — RE: MECHANICAL DRAWINGS
- G. SNOW LOAD DESIGN CRITERIA
  1. GROUND SNOW LOAD, Pg = 30 psf
  2. FLAT ROOF SNOW LOAD, Pf = 21 psf
  3. SNOW EXPOSURE FACTOR, Ce = 1.0
  4. SNOW LOAD IMPORTANCE FACTOR, Is = 1.0
  5. THERMAL FACTOR, Ct = 1.0

3. WIND LOAD DESIGN CRITERIA:
- A. BUILDING RISK CATEGORY II
- B. BASIC DESIGN WIND SPEED = 115 mph
- C. EXPOSURE CATEGORY C

4. SEISMIC LOAD DESIGN CRIERIA:
- A. BUILDING RISK CATEGORY II
- B. SEISMIC IMPORTANCE FACTOR, Ie = 1.0
- C. SITE CLASS D
- D. SITE SPECTRAL RESPONSE ACCELERATIONS:
  1. Ss = 0.153
  2. S1 = 0.051
  3. SDs = 0.163
  4. SD1 = 0.082
- E. SEISMIC DESIGN CATEGORY B
- F. BASIC SEISMIC FORCE RESISTING SYSTEM: WOOD-FRAMED SHEARWALLS WITH WOOD PANELS
- G. RESPONSE MODIFICATION FACTOR, R = 6.5
- H. SEISMIC RESPONSE COEFFICIENT, Cs = 0.0251
- I. ANALYSIS PROCEDURE USED: EQUIVALENT LATERAL FORCE PROCEDURE

5. LATERAL FORCE RESISTING SYSTEM DESCRIPTION:
- A. LATERAL FORCE RESISTANCE AND STABILITY OF THE BUILDING IN THE COMPLETED STRUCTURE IS PROVIDED BY VERTICAL WOOD-FRAMED SHEARWALLS.
- B. THE WOOD ROOF DECKS SERVE AS HORIZONTAL DIAPHRAGMS THAT DISTRIBUTE LATERAL WIND AND SEISMIC FORCES TO THE VERTICAL LATERAL ELEMENTS. THE VERTICAL LATERAL ELEMENTS CARRY APPLIED LATERAL LOADS TO THE BUILDING FOUNDATIONS.

6. FOUNDATIONS:
- A. SOIL DATA WAS TAKEN FROM RECOMMENDATIONS SET FORTH IN PROJECT GEOTECHNICAL REPORT BY NINYO & MOORE DATED OCTOBER 23, 2024 (PROJECT NO. 803044001). REFER TO GEOTECHNICAL REPORT FOR COMPLETE SOILS INFORMATION.
- B. MAXIMUM TOTAL LOAD SOIL BEARING PRESSURE CAPACITY USED IN DESIGN IS 3,000 psf.

GENERAL NOTES

1. CONTRACTOR RESPONSIBILITY DURING CONSTRUCTION/ERECTION:
   - A. THE STRUCTURE IS DESIGNED TO FUNCTION AS A COMPLETED UNIT, WITH ALL SPECIFIED ELEMENTS AND CONNECTIONS IN PLACE AND FULLY INSTALLED.
   - B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, SPECIFICATION, AND IMPLEMENTATION OF ANY AND ALL TEMPORARY BRACING OR SHORING REQUIRED TO ACCOMMODATE THE CONTRACTOR'S MEANS AND METHODS OF CONSTRUCTION AND SEQUENCES OF ERECTION. SUCH BRACING OR SHORING SHALL BE LEFT IN PLACE AS LONG AS MAY BE REQUIRED FOR SAFETY AND UNTIL ALL STRUCTURAL FRAMING AND DIAPHRAGMS ARE IN PLACE WITH CONNECTIONS COMPLETED.
   - C. THE COMPLETED STRUCTURE HAS BEEN DESIGNED ONLY FOR APPLICABLE CODE-PRESCRIBED LOADS ANTICIPATED DURING ITS SERVICE LIFE AS INDICATED HEREIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL ENGINEERING AND OTHER MEASURES REQUIRED TO ACHIEVE THE CONTRACTOR'S MEANS, METHODS, AND SEQUENCES OF CONSTRUCTION AND TO WITHSTAND ALL TEMPORARY CONSTRUCTION LOADS TO WHICH THE STRUCTURE MAY BE SUBJECTED, INCLUDING BUT NOT LIMITED TO ERECTION LOADING AND STOCKPILING OF MATERIALS AND EQUIPMENT.
2. ALL DIMENSIONS ON STRUCTURAL DRAWINGS SHALL BE CHECKED AGAINST ARCHITECTURAL.
3. STRUCTURAL DRAWINGS ARE NOT TO BE SCALED TO DETERMINE DIMENSIONAL INFORMATION, TO VERIFY OR COORDINATE ANY INFORMATION PRESENTED OR FOR ANY OTHER PURPOSE.
4. WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, AND GENERAL NOTES, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.
5. STRUCTURAL ENGINEER'S APPROVAL MUST BE SECURED FOR ALL SUBSTITUTIONS.
6. VERIFY ALL OPENINGS THROUGH FLOOR, ROOF AND WALLS WITH MECHANICAL AND ELECTRICAL CONTRACTORS.
7. STRUCTURAL SPECIAL INSPECTIONS SHALL BE PROVIDED AS SPECIFIED AND IN ACCORDANCE WITH CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE.
8. THE STRUCTURAL ENGINEER'S PERIODIC OBSERVATIONS OR PRESENCE ON SITE DOES NOT REPLACE OR PRECLUDE THE NEED FOR ANY INDEPENDENT THIRD PARTY STRUCTURAL SPECIAL INSPECTIONS SPECIFIED HEREIN.
9. SIGNIFICANT PERMANENT EQUIPMENT SIZES, WEIGHTS, AND LOCATIONS INDICATED ON THE DRAWINGS ARE AS PROVIDED TO THE STRUCTURAL ENGINEER DURING DESIGN. CHANGES IN SIZES, WEIGHTS, OR LOCATIONS FROM THAT INDICATED MUST BE SUBMITTED IN WRITING FOR REVIEW AND APPROVAL BY THE STRUCTURAL ENGINEER. REQUIRED SUPPORTS OR BRACES NOT SHOWN ON THE DRAWINGS ARE THE RESPONSIBILITY OF THE EQUIPMENT SUPPLIER.
10. THE FOLLOWING IS A LIST OF DELEGATED DESIGN AND/OR PERFORMANCE-SPECIFIED ELEMENTS TO BE DESIGNED BY OTHERS AND PRESENTED FOR APPROVAL AS A DEFERRED SUBMITTAL.
    - A. PRE-MANUFACTURED WOOD I-JOIST AND LVL FRAMING ELEMENTS

CONTRACTOR SUBMITTALS

1. GENERAL CONTRACTOR SHALL PROVIDE THE FOLLOWING MATERIAL SPECIFICATION AND SHOP DRAWING SUBMITTALS TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL PRIOR TO PROCEEDING WITH EACH APPLICABLE PORTION OF THE WORK.
2. ITEMS TO BE SUBMITTED AS SPECIFIED IN THE DRAWINGS:
   - A. CONCRETE DESIGN MIXTURES
   - B. CONCRETE STEEL REINFORCING SHOP DRAWINGS
   - C. STRUCTURAL STEEL SHOP DRAWINGS
   - D. MASONRY MORTAR AND GROUT DESIGN MIXTURES
   - E. MASONRY ELEMENT AND ASSEMBLY SPECIFICATIONS
3. DELEGATED DESIGN AND/OR PERFORMANCE-SPECIFIED ELEMENTS TO BE DESIGNED AND PROVIDED BY THE CONTRACTOR:
   [SUBMITTALS ARE TO INCLUDE SUPPORTING CALCULATIONS STAMPED AND SIGNED BY A QUALIFIED STRUCTURAL ENGINEER LICENSED IN THE STATE OF COLORADO. DRAWINGS AND CALCULATIONS ARE TO INCLUDE THE INDICATED ELEMENTS AND THEIR ATTACHMENTS TO THE MAIN BUILDING STRUCTURE.]
   - A. PRE-MANUFACTURED WOOD I-JOIST AND LVL FRAMING ELEMENTS
4. GENERAL CONTRACTOR SHALL REVIEW EACH SUBMITTAL AND CHECK FOR COORDINATION WITH OTHER WORK AND FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS, AND SHALL AFFIX THEIR STAMP INDICATING APPROVAL PRIOR TO SENDING TO THE ARCHITECT AND STRUCTURAL ENGINEER.
5. SUBMITTALS THAT DO NOT BEAR THE CONTRACTOR'S APPROVAL STAMP WILL NOT BE REVIEWED AND WILL BE RETURNED WITHOUT ACTION.DO NOT REPRODUCE CONTRACT DOCUMENTS, COPY STANDARD PRINTED INFORMATION, OR USE ELECTRONIC DRAWING FILES AS THE BASIS FOR SHOP DRAWINGS.
6. GENERAL CONTRACTOR SHALL PROVIDE COPIES OF ALL FINAL, APPROVED, FOR CONSTRUCTION MATERIAL SPECIFICATION AND SHOP DRAWING SUBMITTALS TO THE ARCHITECT AND STRUCTURAL ENGINEER.

MATERIAL SPECIFICATIONS & NOTES

1. CONCRETE:
- A. CONCRETE SHALL BE MADE WITH STONE AGGREGATE (NORMAL-WEIGHT CONCRETE) AND SHALL DEVELOP THE FOLLOWING 28 DAY COMPRESSIVE STRENGTHS (F'C) WITH THE INDICATED DESIGN MIXTURE PROPERTIES:
  1. FOOTINGS — 3,500 psi
  2. FOUNDATION WALLS & PILASTERS — 3,500 psi ; 0.55 MAX W/C RATIO ; 5% AIR
  3. INTERIOR SLABS ON GRADE — 3,500 psi
  4. SITE TRASH ENCLOSURE SLAB & FOUNDATION — 4,000 psi ; 0.40 MAX W/C RATIO ; 6% AIR
- B. RE: CIVIL FOR CONCRETE MIXTURES TO BE USED FOR EXTERIOR SITE SLAB, PAVING, AND FLATWORK, ETC.
- C. PROPORTIONS OF MATERIALS IN CONCRETE MIXTURES SHALL BE ESTABLISHED TO PROVIDE WORKABILITY AND CONSISTENCY TO PERMIT CONCRETE TO BE PLACED READILY INTO FORMS AND AROUND REINFORCEMENT, UNDER CONDITIONS OF PLACEMENT TO BE EMPLOYED, WITHOUT SEGREGATION OR EXCESSIVE BLEEDING. CONTRACTOR SHALL SELECT AN APPROPRIATE SLUMP, AND ADMIXTURES MAY BE USED AS NEEDED TO OBTAIN ACCEPTABLE RESULTS.
- D. TYPE I/II PORTLAND CEMENT SHALL BE USED, UNLESS NOTED OTHERWISE.
- E. FOR CONCRETE MIXTURES USED FOR FLOOR SLABS, THE MINIMUM CEMENTITIOUS CONTENT SHALL BE 540 lbs. PER CUBIC YARD. WHEN FLY ASH IS USED AS A SUPPLEMENTARY CEMENTITIOUS MATERIAL, QUANTITY SHALL NOT BE LESS THAN 15% NOR MORE THAN 25% BY WEIGHT OF TOTAL CEMENTITIOUS MATERIAL.
- F. FOR CONCRETE PLACED BY PUMPING, THE DESIGN MIXTURE SHALL BE PROPORTIONED TO ENSURE FLOWABILITY TO FACILITATE PUMPING. ENTRAINED AIR MAY BE USED TO FACILITATE PUMPING, SUBJECT TO THE PROVISIONS AND LIMITS INCLUDED HEREIN.
- G. WHERE AIR CONTENT IS INDICATED ABOVE, PROVIDE AIR ENTRAINING ADMIXTURES. AIR CONTENT VALUE INDICATED INCLUDES BOTH ENTRAINED AND ENTRAPPED AIR, AND MAY BE PROVIDED WITHIN A RANGE OF +/- 1.5%. AIR CONTENT INDICATED IS BASED ON A NOMINAL AGGREGATE SIZE OF ¾". IF ANOTHER AGGREGATE SIZE IS TO BE USED, ADJUST REQUIRED AIR CONTENT PER ACI 318 TABLE 19.3.3.1.
- H. THE ADDITION OF ENTRAINED AIR IS NOT PERMITTED IN MIXTURES TO BE USED AS FLOOR SLABS, UNLESS THE CONTRACTOR CAN DEMONSTRATE TO THE ARCHITECT THAT SUCH SLAB MIXTURES WITH ENTRAINED AIR WILL PROVIDE AN ACCEPTABLE FINISH WITHOUT BLISTERS.
- I. VERIFY ALKALINITY OF CONCRETE SLAB SURFACE, SLAB VAPOR TRANSMISSION AND SLAB FLATNESS/LEVELNESS ARE COMPATIBLE WITH FLOOR SYSTEMS AND ADHESIVES PRIOR TO INSTALLING FLOORING.
- J. NO CHLORIDE ADMIXTURES SHALL BE ADDED TO CONCRETE WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER.
- K. ALL REINFORCING BARS SHALL BE ASTM A615, GRADE 60, UNLESS NOTED OTHERWISE. WELDED WIRE REINFORCING SHALL CONFORM TO ASTM A185 OR ASTM A497.
- L. CONCRETE PROTECTION FOR REINFORCEMENT (UNLESS NOTED OTHERWISE):
  1. CONCRETE POURED AGAINST EARTH — 3"
  2. CONCRETE POURED IN FORMS BUT EXPOSED TO WEATHER OR EARTH
     - #5 BARS OR SMALLER — 1-1/2"
     - BARS LARGER THAN #5 — 2"
  3. SLABS AND WALLS NOT EXPOSED TO WEATHER OR EARTH — 3/4"
- M. NO SPLICES OF REINFORCEMENT SHALL BE MADE AND NO WELDING TO REINFORCING SHALL BE PERMITTED EXCEPT AS DETAILED OR AUTHORIZED BY THE STRUCTURAL ENGINEER. REINFORCING LAP SPLICES ARE TO BE A MINIMUM OF 48 BAR DIAMETERS, UNLESS NOTED OTHERWISE. WIRE FABRIC REINFORCEMENT MUST LAP ONE FULL MESH PLUS 2" AT SIDE AND END LAPS, BUT NOT LESS THAN 6", AND SHALL BE WIRED TOGETHER. MAKE ALL BARS CONTINUOUS AT CORNERS OR PROVIDE CORNER BARS OF EQUAL SIZE AND SPACING.
- N. DETAIL BARS IN ACCORDANCE WITH THE ACI DETAILING MANUAL AND ACI BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE.
- O. PROVIDE ALL ACCESSORIES NECESSARY TO SUPPORT REINFORCING AT POSITIONS SHOWN.
- P. PLACE 2-#5 BARS (1 EACH FACE) WITH 2'-0" PROJECTION AROUND ALL OPENINGS AND RE-ENTRANT CORNERS IN CONCRETE SLABS AND WALLS, UNLESS NOTED OTHERWISE.
- Q. CONCRETE WORK SHALL NOT HAVE JOINTS IN A HORIZONTAL PLANE. ALL CONSTRUCTION JOINTS SHALL BE AS DETAILED OR AS APPROVED BY THE STRUCTURAL ENGINEER.
- R. ALLOW FOR ADDITIONAL CONCRETE THICKNESS TO COMPENSATE FOR STRUCTURAL MEMBER AND FORMWORK DEFLECTIONS.
- S. SLAB-ON-GRADE CONTROL JOINTS ARE TO BE SPACED A MAXIMUM OF 12'-0" ON CENTER AND ARE TO COINCIDE WITH COLUMN CENTERLINES AND RE-ENTRANT CORNERS.

2. STRUCTURAL STEEL:
- A. ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A36, EXCEPT WIDE FLANGE SHAPES WHICH SHALL CONFORM TO ASTM A992 (GRADE 50), PIPE SECTIONS WHICH SHALL CONFORM TO ASTM A53 (GRADE B), AND HSS SECTIONS WHICH SHALL CONFORM TO ASTM A500 (GRADE C)
- B. STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC STEEL CONSTRUCTION MANUAL, INCLUDING ANSI/AISC 303 - CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS.
- C. ALL WELDERS SHALL HAVE EVIDENCE OF PASSING THE AWS STANDARD QUALIFICATION TESTS, AND HAVE A CURRENT CERTIFICATION.
- D. MINIMUM WELD SIZE SHALL NOT BE LESS THAN 3/16" CONTINUOUS FILLET WELD, UNLESS NOTED OTHERWISE.
- E. CONNECTIONS MADE WITH HIGH STRENGTH STEEL BOLTS SHALL CONFORM TO THE AISC SPECIFICATION FOR STRUCTURAL JOINTS USING A325 OR A490 BOLTS.
- F. ANCHOR RODS SHALL CONFORM TO ASTM F1554 GRADE 36 AND ARE TO BE HOOKED, UNLESS NOTED OTHERWISE.
- G. FABRICATE BEAMS SUCH THAT ROLLING OR FABRICATION INDUCED CAMBER IS UP AFTER ERECTION.
- H. NON-SHRINK GROUT SHALL COMPLY WITH ASTM C1107 AND ACHIEVE A MINIMUM COMPRESSIVE STRENGTH OF 6,000 psi AT 28 DAYS.
- I. ALL STEEL OR STEEL CONNECTIONS PERMANENTLY EXPOSED BELOW GRADE SHALL BE COATED WITH A ZINC RICH PAINT OR AN ASPHALTIC MASTIC.

3. WOOD - GENERAL:
- A. ALL SAWN DIMENSION LUMBER FOR STRUCTURAL FRAMING SHALL BE VISUALLY-GRADED, SURFACED DRY HEM FIR, NO.2 GRADE OR BETTER.
- B. TIMBER CONNECTORS SPECIFIED ARE AS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY. CONNECTORS BY OTHER MANUFACTURERS MAY BE USED IF THEY HAVE A CURRENT ICC-ES EVALUATION REPORT AND THEIR LOAD CAPACITY IS EQUAL TO OR GREATER THAN THE CONNECTOR SPECIFIED. USE MANUFACTURER'S FURNISHED FASTENERS.
- C. INSTALL A CONTINUOUS ROW OF HORIZONTAL BLOCKING AT MID-HEIGHT OF SINGLE STORY WALLS OVER 10'-0" TALL.
- D. GLUE AND NAIL TOGETHER ALL PLIES OF BUILT-UP MEMBERS.
- E. PROVIDE FULL-HEIGHT 2x KING STUD AT ALL BEAM AND HEADER BEARING LOCATIONS, UNLESS NOTED OTHERWISE.
- F. SHEATHING FOR ROOFS AND WALLS SHALL BE APA RATED WITH EXPOSURE 1 BOND CLASSIFICATION, AND SHALL CONFORM TO THE PROVISIONS OF APA PRP-108 OR VOLUNTARY PRODUCT STANDARD PS 1-07.
- G. SHEATHING THICKNESS AND FASTENING REQUIREMENTS SHALL BE AS FOLLOWS:
  1. SHEARWALLS: ALL DESIGNATED SHEARWALLS SHALL HAVE THE SHEATHING THICKNESS AND NAILING SPECIFIED IN THE DRAWINGS. ALL SHEARWALL PANEL EDGES SHALL BE SOLID BLOCKED AT INTERMEDIATE FRAMING MEMBERS.
  2. NON SHEARWALLS: TYPICAL WALLS NOT DESIGNATED AS SHEARWALLS SHALL HAVE ONE LAYER OF 15/32" SHEATHING FASTENED WITH 8D NAILS @ 6" O.C. ALONG PANEL EDGES AND @ 12" O.C. AT INTERMEDIATE FRAMING MEMBERS. NON SHEARWALL PANEL EDGES NEED NOT BE BLOCKED AT INTERMEDIATE FRAMING MEMBERS.
  3. ROOF DIAPHRAGMS: ONE LAYER OF 23/32" SHEATHING FASTENED WITH 10D NAILS SPACED @ 6" O.C. ALONG PANEL EDGES AND @ 12" O.C. AT INTERMEDIATE FRAMING MEMBERS.
- H. SMOOTH COMMON NAILS SHALL BE USED ON ALL ROOF AND WALL SHEATHING.
- I. PLACE SHEATHING WITH 8'-0" DIMENSION PERPENDICULAR TO SPAN OF FRAMING MEMBERS AND WITH END JOINTS STAGGERED. ROOF DIAPHRAGMS SHALL NOT BE GLUED.
- J. FASTEN ALL WOOD MEMBERS PER IBC TABLE 2304.10.1, UNLESS NOTED OTHERWISE.
- K. LVL BEAMS AND I-JOISTS SHALL BE ERECTED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. ALL PLATES, BLOCKING, BRIDGING AND OTHER RELATED ITEMS SHALL BE FURNISHED BY THE MANUFACTURER.

4. PREFABRICATED WOOD ROOF I-JOISTS:
- A. SUPPLIER SHALL DESIGN AND PROVIDE JOISTS IN ACCORDANCE WITH THE DESIGN CRITERIA OUTLINED IN THE DRAWINGS. SUPPLIER SHALL SUBMIT SHOP DRAWINGS AND CALCULATIONS STAMPED AND SIGNED BY A COLORADO LICENSED PROFESSIONAL ENGINEER FOR REVIEW AND APPROVAL BY THE STRUCTURAL ENGINEER PRIOR TO DELIVERY TO THE PROJECT SITE.
- B. RE: DESIGN CRITERIA NOTES THIS SHEET AND SHEET S1.3 FOR APPLICABLE DESIGN LOADS.
- C. JOISTS SHALL BE DESIGNED TO PROVIDE FOR MAXIMUM VERTICAL DEFLECTIONS AS FOLLOWS:
  1. MAXIMUM TOTAL LOAD DEFLECTION: L/240 OF JOIST SPAN
  2. MAXIMUM SNOW LOAD DEFLECTION: L/360 OF JOIST SPAN
- D. ALL JOISTS SHALL BE ERECTED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS, INCLUDING CONSIDERATIONS FOR TEMPORARY BRACING.
- E. ALL REQUIRED BRIDGING AND BLOCKING SHALL BE INSTALLED PRIOR TO INSTALLING SHEATHING.

5. MASONRY:
- A. CONCRETE MASONRY BLOCK UNITS SHALL BE MEDIUM WEIGHT AND SHALL CONFORM TO ASTM C90.
- B. MORTAR FOR STRUCTURAL WALLS SHALL CONFORM TO ASTM C270.
- C. GROUT FOR MASONRY SHALL CONFORM TO ASTM C476 AND SHALL DEVELOP A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 2,000 psi.
- D. ALL MASONRY ASSEMBLIES SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH (F'M) OF 1,500 psi IN 28 DAYS.
- E. STANDARD HORIZONTAL STEEL LADDER MESH REINFORCING SHALL BE PROVIDED IN BED JOINTS OF STRUCTURAL MASONRY WALLS, SPACED AT 16" ON CENTER, UNLESS NOTED OTHERWISE.
- F. SPECIFIED VERTICAL REINFORCING SHALL EXTEND FOR THE FULL HEIGHT OF THE WALL AND SHALL BE GROUTED IN PLACE USING A MAXIMUM OF 5'-0" LIFTS. HIGH LIFT GROUTING MAY BE DONE UP TO A HEIGHT OF 15'-0" AS LONG AS CLEANOUTS ARE PROVIDED AT THE BASE OF EACH GROUTED CELL. ALL CELLS MUST BE CLEANED PRIOR TO GROUTING, AND ALL VERTICAL REINFORCING MUST BE ADEQUATELY SECURED INTO POSITION.
- G. PROVIDE ONE ADDITIONAL VERTICAL BAR AT THE FOLLOWING LOCATIONS: WALL CORNERS, ENDS OF WALLS, AND EACH SIDE OF OPENINGS.
- H. PROVIDE HORIZONTAL BOND BEAM REINFORCED WITH A MINIMUM OF 1-#5 CONTINUOUS BARS AT THE TOP OF ALL STRUCTURAL WALLS

6. POST-INSTALLED ANCHORS:
- A. POST-INSTALLED ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ALL MANUFACTURER'S RECOMMENDATIONS, SPECIFICATIONS AND PRINTED INSTALLATION INSTRUCTIONS (MPII), AND SHALL BE INSTALLED ONLY INTO DRY BASE MATERIALS.
- B. FOR EXPANSION ANCHORS INSTALLED INTO CONCRETE, THE CONCRETE BASE MATERIAL SHALL REACH THE REQUIRED MINIMUM COMPRESSIVE STRENGTH (F'C) SPECIFIED IN THE DRAWINGS PRIOR TO ANCHOR INSTALLATION.
- C. FOR ADHESIVE ANCHORS INSTALLED INTO CONCRETE, THE CONCRETE BASE MATERIAL AT THE TIME OF ANCHOR INSTALLATION SHALL HAVE A MINIMUM AGE OF 21 DAYS, A MINIMUM CONCRETE TEMPERATURE OF 50 DEGREES F, AND SHALL REACH THE REQUIRED MINIMUM COMPRESSIVE STRENGTH (F'C) SPECIFIED IN THE DRAWINGS PRIOR TO ANCHOR INSTALLATION.

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Project Number 25-001

02.11.2025

Rev	Description	Date

COVER SHEET, DESIGN CRITERIA & PROJECT NOTES

S1.0

STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS & TESTS

1 GENERAL

A. SPECIAL INSPECTIONS AND TESTS SHALL BE PROVIDED IN ACCORDANCE WITH CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE.
B. THE OWNER OR THE OWNER'S AUTHORIZED AGENT, OTHER THAN THE CONTRACTOR, SHALL EMPLOY ONE OR MORE APPROVED AGENCIES TO PERFORM SPECIAL INSPECTIONS AND TESTS DURING CONSTRUCTION ON THE TYPES OF WORK OUTLINED HEREIN.
C. APPROVED AGENCIES SHALL PROVIDE ALL INFORMATION AS NECESSARY FOR THE BUILDING OFFICIAL TO DETERMINE THAT THE AGENCY MEETS OR EXCEEDS THE APPLICABLE CODE-SPECIFIED REQUIREMENTS.
D. PRIOR TO THE START OF CONSTRUCTION, THE APPROVED AGENCIES SHALL PROVIDE WRITTEN DOCUMENTATION TO THE BUILDING OFFICIAL, ARCHITECT AND STRUCTURAL ENGINEER, DEMONSTRATING THE COMPETENCE AND RELEVANT EXPERIENCE OR TRAINING OF THE SPECIAL INSPECTORS WHO WILL PERFORM THE SPECIAL INSPECTIONS AND TESTS DURING CONSTRUCTION.
E. THE CONSTRUCTION OR WORK FOR WHICH SPECIAL INSPECTION OR TESTING IS REQUIRED SHALL REMAIN ACCESSIBLE AND EXPOSED FOR SPECIAL INSPECTION OR TESTING PURPOSES UNTIL COMPLETION OF THE REQUIRED SPECIAL INSPECTIONS OR TESTS.
F. APPROVED AGENCIES SHALL KEEP RECORDS OF SPECIAL INSPECTIONS AND TESTS AND SHALL SUBMIT REPORTS OF SPECIAL INSPECTIONS AND TESTS CONFORMING TO CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE TO THE BUILDING OFFICIAL, ARCHITECT AND STRUCTURAL ENGINEER.
DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL, ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO COMPLETION OF THE APPLICABLE PHASE OF THE WORK.
G. SPECIAL INSPECTIONS SHALL BE PROVIDED ON A PERIODIC OR CONTINUOUS BASIS, AS STATED OR INDICATED BELOW.
[P] PERIODIC INSPECTION – PART-TIME OR INTERMITTENT OBSERVATION BY THE SPECIAL INSPECTOR OF WORK BEING PERFORMED. SPECIAL INSPECTOR SHALL BE PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED. OBSERVATION OF ALL WORK (100% VISUAL) SHALL BE MADE AT THE COMPLETION OF THE WORK.
[C] CONTINUOUS INSPECTION – FULL-TIME OBSERVATION BY THE SPECIAL INSPECTOR OF WORK BEING PERFORMED. SPECIAL INSPECTOR SHALL BE PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED. OBSERVATION OF ALL WORK (100% VISUAL) SHALL BE MADE AT THE COMPLETION OF THE WORK.

2 INSPECTION OF STEEL CONSTRUCTION

ITEM		FREQUENCY
1.	MATERIAL VERIFICATION OF STRUCTURAL STEEL A. FOR STRUCTURAL STEEL, IDENTIFICATION MARKINGS TO CONFORM TO AISC 360 B. FOR OTHER STEEL, IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE CONSTRUCTION DOCUMENTS	[P]
2.	MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, ANCHOR RODS, NUTS AND WASHERS A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS	[P]
3.	MATERIAL VERIFICATION OF WELD FILLER METALS A. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATIONS IN THE CONSTRUCTION DOCUMENTS	[P]
4.	INSPECTION OF HIGH STRENGTH BOLTING:	
	A. SNUG-TIGHT JOINTS VERIFY CONNECTED MATERIALS HAVE BEEN DRAWN TOGETHER AND PROPERLY SNUGGED.	[P]
5.	INSPECTION OF WELDING OF STRUCTURAL STEEL:	
	A. FIT-UP OF FILLET AND GROOVE WELDS	[P]
	B. CONFIGURATION AND FINISH OF ACCESS HOLES	[P]
	C. CONTROL & HANDLING OF WELD MATERIALS	[P]
	D. NO WELDING OVER CRACKED TACK WELDS	[P]
	E. ACCEPTABLE ENVIRONMENTAL CONDITIONS (WIND SPEED, PRECIPITATION AND TEMPERATURE)	[P]
	F. CONFORMANCE WITH WPS AND WELDING TECHNIQUES	[P]
	G. VERIFY THE FOLLOWING FOR ALL SPECIFIED WELDS: SIZE, LENGTH AND LOCATION; VISUAL ACCEPTANCE CRITERIA; ARC STRIKES; WEB K-AREA WELDS FREE OF CRACKS; BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED); REPAIR ACTIVITIES	[P]
	H. SINGLE-PASS FILLET WELDS </= 5/16"	[P]
6.	INSPECTION OF STEEL FRAME AND JOINT DETAILS FOR COMPLIANCE:	
	A. DETAILS SUCH AS BRACING AND STIFFENING	[P]
	B. MEMBER LOCATIONS	[P]
	C. APPLICATION OF JOINT DETAILS AT EACH CONNECTION	[P]

NOTES:
A. WELDING INSPECTION AND WELDING INSPECTOR QUALIFICATION FOR STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH AWS D1.1.
B. WELDING PROCEDURE SPECIFICATIONS (WPSS), PROCEDURE QUALIFICATION RECORDS (PQRS) FOR WPSS THAT ARE NOT PREQUALIFIED, WELDING PERSONNEL PERFORMANCE QUALIFICATION RECORDS (WPQRS) AND CONTINUITY RECORDS, AS APPLICABLE, SHALL BE SUBMITTED TO THE APPROVED AGENCY FOR REVIEW AND APPROVAL.
C. INSTALLATION OF HIGH-STRENGTH BOLTS SHALL BE INSPECTED IN ACCORDANCE WITH AISC 360 & RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS.

3 INSPECTION OF CONCRETE CONSTRUCTION

ITEM		FREQUENCY
1.	INSPECTION OF REINFORCING STEEL AND PLACEMENT VERIFY GRADE, FINISH, SIZE, BAR QUANTITY, LOCATION, SPACING, COVER, HOOK LENGTHS, SPLICE LENGTHS, SPLICE LOCATIONS, BEND DIAMETERS, SURFACE CONDITIONS AND SUPPORTS.	[P]
2.	INSPECTION OF ANCHORS CAST IN CONCRETE VERIFY TYPE, FINISH, DIAMETER, LENGTH, QUANTITY, EMBEDMENT LENGTH, SPACING AND EDGE DISTANCES. VERIFY USE OF PLACING TEMPLATE WHERE SPECIFIED.	[P]
3.	VERIFY USE OF APPROVED DESIGN MIXTURE FOR EACH TRUCK LOAD	
4.	PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	[C]
5.	INSPECTION OF CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES PER ACI 318 26.5.2	[C]
6.	INSPECTION OF FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED	[P]

4 TESTING OF STRUCTURAL CONCRETE

A. SAMPLES FOR PREPARING STRENGTH TEST SPECIMENS OF EACH CONCRETE MIXTURE PLACED EACH DAY SHALL BE OBTAINED AT THE POINT OF PLACEMENT AND SHALL AT A MINIMUM BE TAKEN AS FOLLOWS: (A) AT LEAST ONCE A DAY (B) AT LEAST ONCE FOR EACH 100 CU. YD. OF CONCRETE (C) AT LEAST ONCE FOR EACH 5,000 S.F. OF SURFACE AREA FOR SLABS OR WALLS. SAMPLING OF CONCRETE SHALL BE IN ACCORDANCE WITH ASTM C172.
B. WHEN FREQUENCY OF TESTING WILL PROVIDE FEWER THAN FIVE COMPRESSIVE-STRENGTH TESTS FOR EACH CONCRETE MIXTURE, TESTING SHALL BE CONDUCTED FROM AT LEAST FIVE RANDOMLY SELECTED BATCHES OR FROM EACH BATCH IF FEWER THAN FIVE ARE USED.
C. SLUMP: ASTM C143; ONE TEST AT POINT OF PLACEMENT FOR EACH COMPOSITE SAMPLE, BUT NOT LESS THAN ONE TEST FOR EACH DAY'S POUR OF EACH CONCRETE MIXTURE. PERFORM ADDITIONAL TESTS WHEN CONCRETE CONSISTENCY APPEARS TO CHANGE.
D AIR CONTENT: ASTM C231; TEST EACH COMPOSITE SAMPLE PER ASTM C231 (PRESSURE METHOD) FOR NORMAL-WEIGHT CONCRETE OR ASTM C173 (VOLUMETRIC METHOD) FOR LIGHT-WEIGHT CONCRETE.
E. TEMPERATURE: ASTM C1064; TEST EACH COMPOSITE SAMPLE AND AT 60-MINUTE INTERVALS. REQUIRED WHEN AIR TEMPERATURE IS 40°F AND BELOW OR 80°F AND ABOVE.
F. COLD WEATHER CURING: ASTM C1074; RECORD MAXIMUM AND MINIMUM CONCRETE TEMPERATURE DURING CURING PERIOD WHEN A DAILY AVERAGE AIR TEMPERATURE OF 40°F OR BELOW IS EXPECTED FOR 3 SUCCESSIVE DAYS DURING CURING PERIOD.
G. COMPRESSION TEST SPECIMENS: ASTM C31;
CAST AND CURE FOUR (4) 6X12 CYLINDER SPECIMENS OR SIX (6) 4X8 CYLINDER SPECIMENS FOR EACH COMPOSITE SAMPLE.
H. COMPRESSIVE STRENGTH TESTS: ASTM C39;
TEST ONE (1) 6X12 OR ONE (1) 4X8 SPECIMEN AT 7 DAYS
TEST TWO (2) 6X12 OR THREE (3) 4X8 SPECIMENS AT 28 DAYS
TEST ONE (1) 6X12 OR TWO (2) 4X8 SPECIMENS AT 56 DAYS IF 28-DAY TESTS DO NOT ACHIEVE THE SPECIFIED STRENGTH.
TEST SPECIMEN ACCEPTANCE CRITERIA TO BE IN ACCORDANCE WITH ACI 318

5 INSPECTION OF POST-INSTALLED ANCHORS [ANCHOR BOLTS, RODS & REINFORCING STEEL]

ITEM		FREQUENCY
1.	MANUFACTURER, TYPE, DIAMETER, LENGTH AND FINISH OF ANCHOR	[C]
2.	MAXIMUM SPECIFIED IMPACT WRENCH TORQUE RATING MAINTAINED FOR SCREW ANCHORS	[C]
3.	ACCEPTABILITY OF BASE MATERIAL	[C]
4.	INSPECTION DURING ANCHOR INSTALLATION VERIFY DRILLING METHOD, HOLE DIMENSIONS, HOLE CLEANING, ANCHOR AND ADHESIVE PLACEMENT, ANCHOR EMBEDMENT, WRENCH TORQUE, EDGE DISTANCES AND SPACING.	[C]
5.	INSPECTION AFTER INSTALLATION OF ATTACHED ASSEMBLY VERIFY ANCHOR LOCATIONS, SPACING, EDGE DISTANCES, AND ANCHOR FLUSH WITH AND PERPENDICULAR TO THE RECEIVING SURFACE. VERIFY ANCHOR HEADS HAVE NOT BEEN CUT OFF AND THAT MANUFACTURER'S STAMP MARK IS READABLE AND HAS NOT BEEN DAMAGED OR OBSCURED.	[C]

NOTES:
A. MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII) AND RELEVANT ICC-ES REPORTS SHALL BE USED ALONG WITH THE CONSTRUCTION DOCUMENTS TO DETERMINE COMPLIANCE.
B. CONTINUOUS INSPECTION OF ALL POST-INSTALLED ANCHORS SHALL BE REQUIRED, REGARDLESS OF WHETHER PERIODIC INSPECTION IS PERMITTED BY THE RELEVANT ICC-ES REPORTS.
C. PRIOR TO ANCHOR INSTALLATION, REVIEW AND VERIFY CONTRACTOR'S INSTALLATION PROCEDURE.
D. VERIFY THAT THE FULL CURE TIME AS OUTLINED IN THE GENERAL NOTES HAS ELAPSED PRIOR TO APPLICATION OF TORQUE OR LOAD TO ANCHOR.

6 INSPECTION OF MASONRY CONSTRUCTION

ITEM		FREQUENCY
1.	VERIFY COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND APPROVED SUBMITTALS	[P]
2.	AT THE START OF MASONRY CONSTRUCTION, VERIFY:	
	A. PROPORTIONS OF SITE-PREPARED MORTAR	[P]
	B. CONSTRUCTION OF MORTAR JOINTS	[P]
	C. LOCATION OF REINFORCEMENT, CONNECTORS AND ANCHORAGES	[P]
3.	DURING MASONRY CONSTRUCTION, VERIFY:	
	A. SIZE AND LOCATION OF STRUCTURAL MEMBERS	[P]
	B. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION	[P]
	C. SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT AND ANCHORAGES	[P]
	D. PREPARATION, CONSTRUCTION AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°F)	[P]
4.	PRIOR TO GROUTING, VERIFY:	
	A. GROUT SPACE IS CLEAN	[P]
	B. PLACEMENT OF REINFORCING AND CONNECTORS AND ANCHORAGES	[P]
	C. PROPORTIONS OF SITE-PREPARED GROUT	[P]
	D. CONSTRUCTION OF MORTAR JOINTS	[P]
5.	VERIFY GROUT PLACEMENT	[C]

7 INSPECTION OF WOOD CONSTRUCTION

ITEM		FREQUENCY
1.	ROOF DIAPHRAGMS:	
	A. SHEATHING THICKNESS AND GRADE	[P]
	B. NOMINAL SIZE OF FRAMING MEMBERS AT ADJOINING PANEL EDGES	[P]
	C. NAIL DIAMETER AND LENGTH	[P]
	D. NUMBER OF FASTENER LINES	[P]
	E. SPACING BETWEEN FASTENERS IN EACH LINE AND AT PANEL EDGES	[P]
2.	SHEARWALLS:	
	A. SHEATHING THICKNESS AND GRADE	[P]
	B. NOMINAL SIZE AND SPACING OF TYPICAL FRAMING MEMBERS AND AT ADJOINING PANEL EDGES	[P]
	C. NAIL DIAMETER AND LENGTH	[P]
	D. NUMBER OF FASTENER LINES	[P]
	E. SPACING BETWEEN FASTENERS IN EACH LINE AND AT PANEL EDGES	[P]
	F. LOCATION, SIZE AND TYPE OF HOLDOWNS	[P]
3.	NAILING, BOLTING, ANCHORING AND FASTENING OF:	
	A. DRAG STRUTS AND COLLECTORS	[P]
	B. HOLD-DOWNS	[P]

8 INSPECTION OF SOILS

ITEM		FREQUENCY
1.	VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE REQUIRED BEARING CAPACITY	[P]
2.	VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL	[P]
3.	PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS	[P]
4.	VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF FILL	[P]
5.	PRIOR TO PLACEMENT OF CONTROLLED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY	[P]

NOTES:
A. THE APPROVED PROJECT GEOTECHNICAL REPORT SHALL BE USED ALONG WITH THE CONSTRUCTION DOCUMENTS TO DETERMINE COMPLIANCE.
B. DURING FILL PLACEMENT, THE SPECIAL INSPECTOR SHALL DETERMINE THAT PROPER MATERIALS AND PROCEDURES ARE USED IN ACCORDANCE WITH THE PROVISIONS OF THE APPROVED PROJECT GEOTECHNICAL REPORT

REINFORCING BAR LAP SPLICE SCHEDULE

BAR SIZE	'TOP BAR' SPLICE LENGTH	'OTHER BAR' SPLICE LENGTH
#3	27"	21"
#4	35"	27"
#5	44"	34"
#6	52"	40"
#7	77"	59"
#8	86"	66"

NOTES:
1. 'TOP BARS' ARE HORIZONTAL BARS PLACED SUCH THAT 12" OF FRESH CONCRETE IS CAST BELOW THE BAR.
2. ALL BARS THAT ARE NOT 'TOP BARS' ARE 'OTHER BARS'.
3. REFER TO THE CONCRETE MATERIAL AND SPECIFICATION NOTES FOR ADDITIONAL INFORMATION AND REQUIREMENTS

STEEL BEAM SHEAR TAB CONNECTION SCHEDULE

BEAM SIZE	NUMBER OF ¾" Ø BOLTS	SHEAR TAB THK x LENGTH	FILLET WELD SIZE
W14	3	⅜"x9"	¼"
W16	4	⅜"x12"	¼"
W18	4	⅜"x12"	¼"

NOTES:
1. MINIMUM EDGE DISTANCE = 1½" FOR ALL CONNECTED PARTS.
2. BOLT SPACING = 3".
3. STANDARD HOLES TO BE PROVIDED IN SUPPORTED WEB.
4. SHORT-SLOTTED HOLES TO BE PROVIDED IN SHEAR TAB PLATES.
5. ALL BOLTS ARE TO BE A325.

HEADER SCHEDULE

MARK	HEADER	# OF TRIMMER STUDS	# OF KING STUDS
H1	(3) 2x10	1	2
H2	(3) 11⅞" LVL	2	3
H3	(3) 14" LVL	3	3

NOTES:
1. TYPICAL HEADERS, U.N.O.
2. RE: PLAN FOR MARK LOCATIONS.
3. GLUE AND NAIL PLY'S PER TYPICAL DETAIL THIS SHEET.
4. RE: 4/S1.2 FOR LATERAL STRAPS TO BE INSTALLED AT CORNERS OF OPENINGS LOCATED WITHIN LENGTH OF SHEARWALLS INDICATED ON PLAN.

LATERAL WOOD SHEARWALL SCHEDULE

MARK	APA RATED SHEATHING	SHEATHING NAILING	SILL PLATE ANCHORS	HOLDOWN	HOLDOWN ANCHOR	HOLDOWN END STUDS/POST
SW1	15/32" (EXTERIOR FACE)	8d @ 4" o.c. (PANEL EDGES) 8d @ 12" o.c. (FIELD)	⅝"ø x 1'-0" (HOOKED) @ 24" o.c. W/ BPS5/8-6 PLATE WASHERS (RE: NOTE 13 BELOW)	HDU5-SDS2.5 W/ (14) ¼" x 2½" SDS SCREWS INTO END STUDS	⅝"ø SSTB24	(2) 2x6
SW2	7/16"	8d @ 4" o.c. (PANEL EDGES) 8d @ 12" o.c. (FIELD)	⅝"ø x 1'-0" (HOOKED) @ 18" o.c. W/ BPS5/8-6 PLATE WASHERS (RE: NOTE 13 BELOW)	HDU8-SDS2.5 W/ (20) ¼" x 2½" SDS SCREWS INTO END POST	⅞"ø x 30" PAB7-30	6x4 POST

NOTES:
1. RE: PLAN FOR SHEARWALL MARK LOCATIONS AND EXTENTS.
2. RE: PLAN AND DETAILS FOR ADDITIONAL REQUIREMENTS AND DIMENSIONAL INFORMATION.
3. SHEARWALL STUDS SHALL BE 2x6 MINIMUM @ 16" MAX. o.c.
4. PANEL EDGES AT SHEARWALLS SHALL BE FULLY BLOCKED WITH 2x6 MATERIAL.
5. RE: 5/S1.2 FOR TYPICAL SHEARWALL HOLDOWN DETAIL.
6. RE: 6/S1.2 FOR TYPICAL SSTB HOLDOWN ANCHOR DETAIL.
7. RE: 7/S3.1 FOR PAB ANCHOR DETAIL.
8. SET HEIGHT OF SSTB ANCHORS USING EMBEDMENT MARK INDICATED TO ACCOMMODATE 2x SILL PLATE.
9. SECURE ANCHORS TO FORMWORK AND ADJACENT REINFORCING BARS TO PREVENT ANCHOR FROM BEING MOVED OR MISALIGNED DURING THE CONCRETE POUR.
10. INSTALL HOLDOWN HARDWARE AND ANCHORS IN CONFORMANCE WITH ALL SUPPLIER'S SPECIFICATIONS AND RECOMMENDATIONS, USING SUPPLIER PROVIDED FASTENERS AND ACCESSORIES.
11. HOLDOWN ANCHORS SHALL BE AS SPECIFIED AND SHALL BE CAST-IN-PLACE. POST-INSTALLED WEDGE OR EPOXIED ANCHOR ALTERNATES ARE NOT ACCEPTABLE.
12. RE: 4/S1.2 FOR ADDITIONAL LATERAL STRAPS TO BE INSTALLED AT CORNERS OF OPENINGS LOCATED WITHIN LENGTH OF SHEARWALLS.
13. RE: 7/S1.2 FOR SILL ANCHOR PLATE WASHER INSTALLATION AT LATERAL SHEARWALLS.
14. SHEATHING SHALL BE PROVIDED IN 4x8 PANELS AND INSTALLED WITH LONG DIMENSION ORIENTED HORIZONTALLY.

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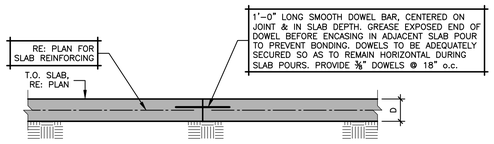
STRUCTURAL SPECIAL INSPECTIONS & SCHEDULES

S1.1

BOXED NOTES INDICATE TYPICAL NOTES, U.N.O.

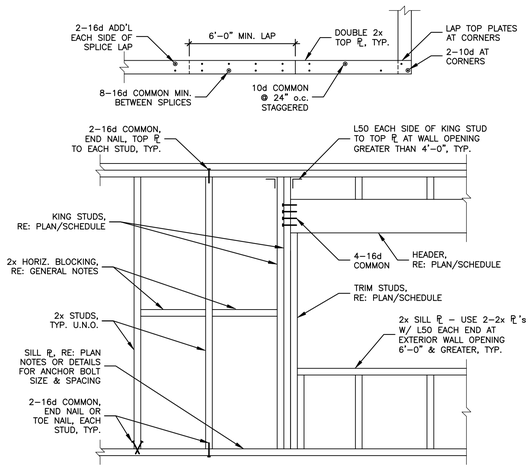


TYPICAL CONSTRUCTION JOINT

NOTES:
1. JOINTS MUST BE TOOLED OR SAW CUT AS SOON AS THE SLAB CAN SUPPORT EQUIPMENT.
2. LOCATE AT MAXIMUM SPACING OF APPROXIMATELY 12'-0" EACH DIRECTION AND AT COLUMN CENTERLINES AND RE-ENTRANT CORNERS.

TYPICAL CONTROL JOINT

1 SLAB-ON-GRADE CONSTRUCTION & CONTROL JOINT 3/4"=1'-0"



2 TYPICAL WOOD STUD WALL FRAMING DETAIL N.T.S.

NOTES: 1. HEADERS SHALL BE 2-2x8 MINIMUM, TYP. U.N.O.
2. 2x SOLID BLOCKING REQUIRED AT CEILING LINES

SAWN LUMBER (2" NOM. THICKNESS) CONNECTION SCHEDULE

PLY TO PLY CONNECTION	2 PLY	3 PLY
2-ROWS 10d NAILS @ 12" o.c.	ONE FACE	EACH FACE

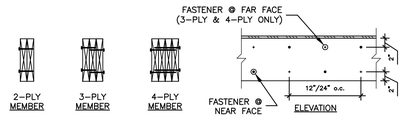
FOR COLUMNS OVER 3-PLY, ATTACH EACH ADDITIONAL PLY W/ 2 ROWS OF 10d NAILS @ 12" o.c.

LVL 1-3/4" THICK, MEMBER DEPTH </= 14" CONNECTION SCHEDULE

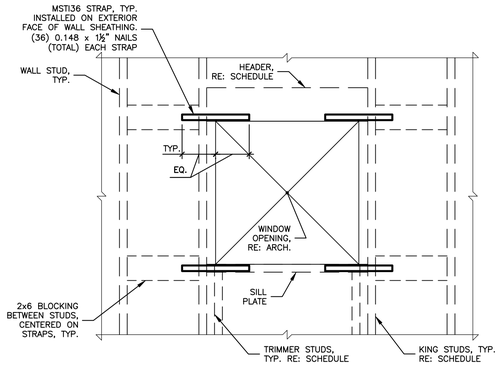
PLY TO PLY CONNECTION	2 PLY	3 PLY	4 PLY
2-ROWS 12d NAILS @ 12" o.c.	ONE FACE	EACH FACE	——
2-ROWS ¼"x6" SDS SCREWS @ 24" o.c.	——	——	EACH FACE

LVL 1-3/4" THICK, MEMBER DEPTH > 14" CONNECTION SCHEDULE

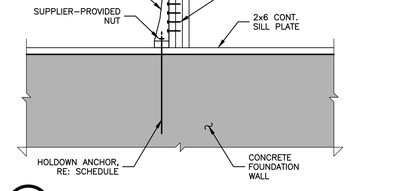
PLY TO PLY CONNECTION	2 PLY	3 PLY	4 PLY
3-ROWS 16d NAILS @ 12" o.c.	ONE FACE	EACH FACE	——
3-ROWS ¼"x6" SDS SCREWS @ 24" o.c.	——	——	EACH FACE



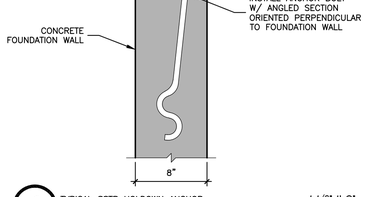
3 TYPICAL MULTIPLE WOOD PLY CONNECTIONS N.T.S.



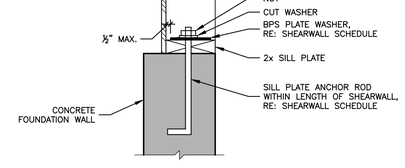
4 STRAPS AT WINDOW OPENING WITHIN LENGTH OF SHEARWALL N.T.S.



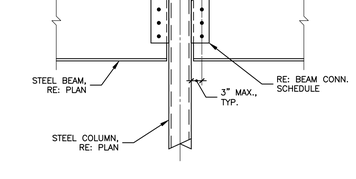
5 TYPICAL SHEARWALL HOLDOWN DETAIL 3/4"=1'-0"



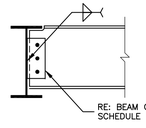
6 TYPICAL SSTB HOLDOWN ANCHOR 1-1/2"=1'-0"



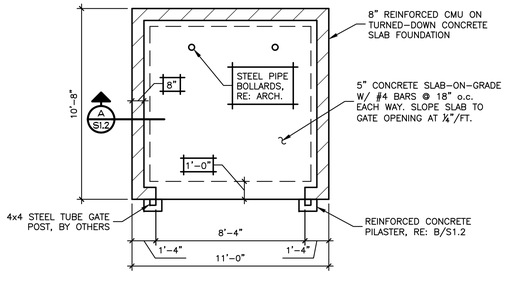
7 SILL PLATE ANCHOR ROD PLATE WASHER AT SHEARWALLS 1-1/2"=1'-0"



8 TYPICAL STEEL BEAM TO HSS COLUMN CONNECTION 3/4"=1'-0"

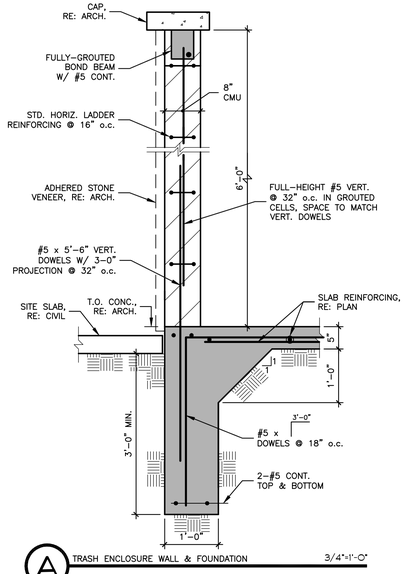


9 TYPICAL STEEL BEAM TO BEAM CONNECTION 3/4"=1'-0"

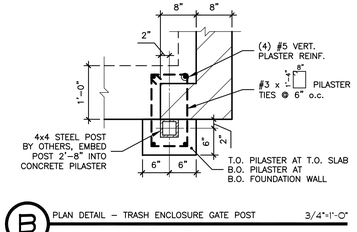


TRASH ENCLOSURE PLAN 1/4"=1'-0"

NOTES:
1. BOXED ⟺ NOTES INDICATE TYPICAL NOTES, UNLESS NOTED OTHERWISE.
2. RE: CIVIL FOR SITE PLAN LOCATION AND ORIENTATION.
3. ENCLOSURE GATE BY OTHERS.
4. SLAB & TURNED-DOWN EDGE TO BE CONSTRUCTED OVER PROPERLY PREPARED AND COMPACTED SUBGRADE, RE: PROJECT GEOTECHNICAL REPORT.



A TRASH ENCLOSURE WALL & FOUNDATION 3/4"=1'-0"



B PLAN DETAIL - TRASH ENCLOSURE GATE POST 3/4"=1'-0"

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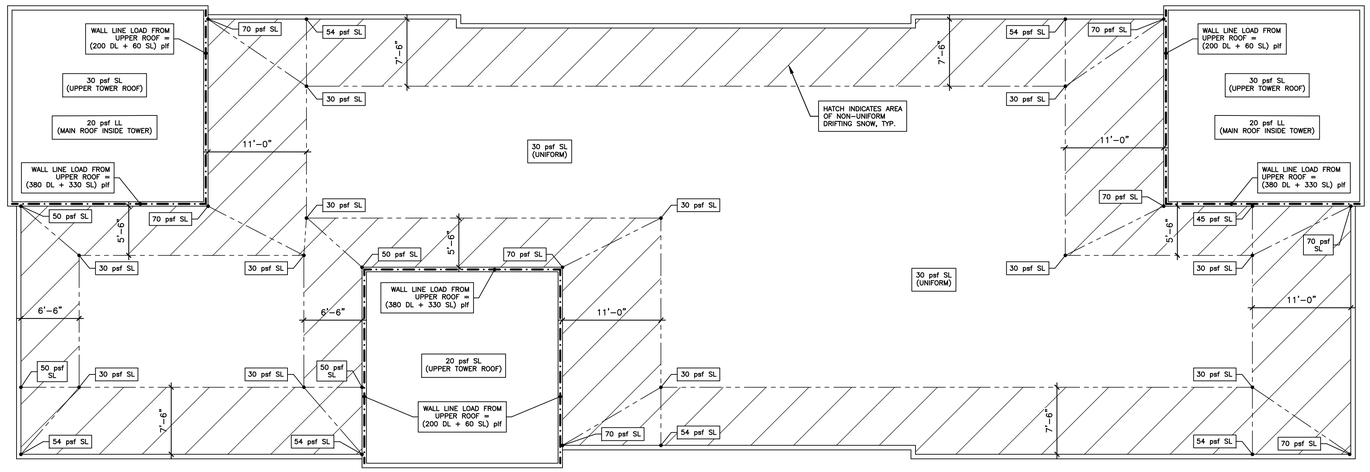
TYPICAL DETAILS & TRASH ENCLOSURE

S1.2

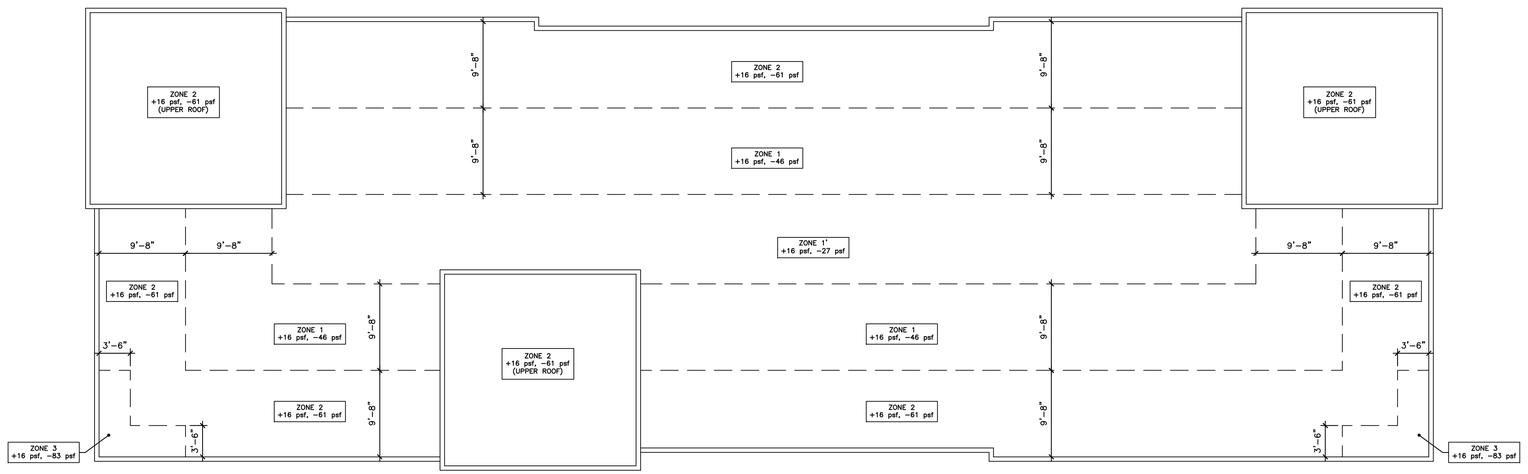


ROOF GRAVITY DESIGN LOAD DIAGRAM

N.T.S.

NOTES:

1. 'DL' INDICATES DEAD LOAD. 'LL' INDICATES LIVE LOAD. 'SL' INDICATES SNOW LOAD.
2. UNIFORM SUPERIMPOSED ROOF DL = 15 psf TO BE INCLUDED.
3. DRIFTING SNOW LOADS IN HATCHED AREAS VARY UNIFORMLY BETWEEN VALUES INDICATED.
4. RE: GENERAL NOTES ON SHEET S1.0 FOR ADDITIONAL DESIGN INFORMATION.
5. ALL DESIGN LOADS INDICATED IN THE DRAWINGS SHALL BE USED, CONSIDERING ALL APPLICABLE LOAD COMBINATIONS FROM IBC SECTION 1605.



ROOF WIND DESIGN LOAD DIAGRAM

N.T.S.

NOTES:

1. VALUES REPRESENT TOTAL (NOT NET) WIND LOADS.
2. VALUES SHOWN ARE ULTIMATE (NOT ASD) LOADS, COMPUTED PER ASCE 7-16.
3. (+) VALUES INDICATE DOWNWARD WIND LOADS. (-) VALUES INDICATED UPWARD WIND LOADS.
4. RE: GENERAL NOTES ON SHEET S1.0 FOR ADDITIONAL DESIGN INFORMATION.
5. RE: DETAIL 1/S4.1 FOR ADDITIONAL VERTICAL PARAPET KICKER WIND LOAD REACTIONS.
6. WIND LOADS SHALL BE COMBINED WITH ALL OTHER DESIGN LOADS INDICATED IN THE DRAWINGS, CONSIDERING ALL APPLICABLE LOAD COMBINATIONS FROM IBC SECTION 1605.

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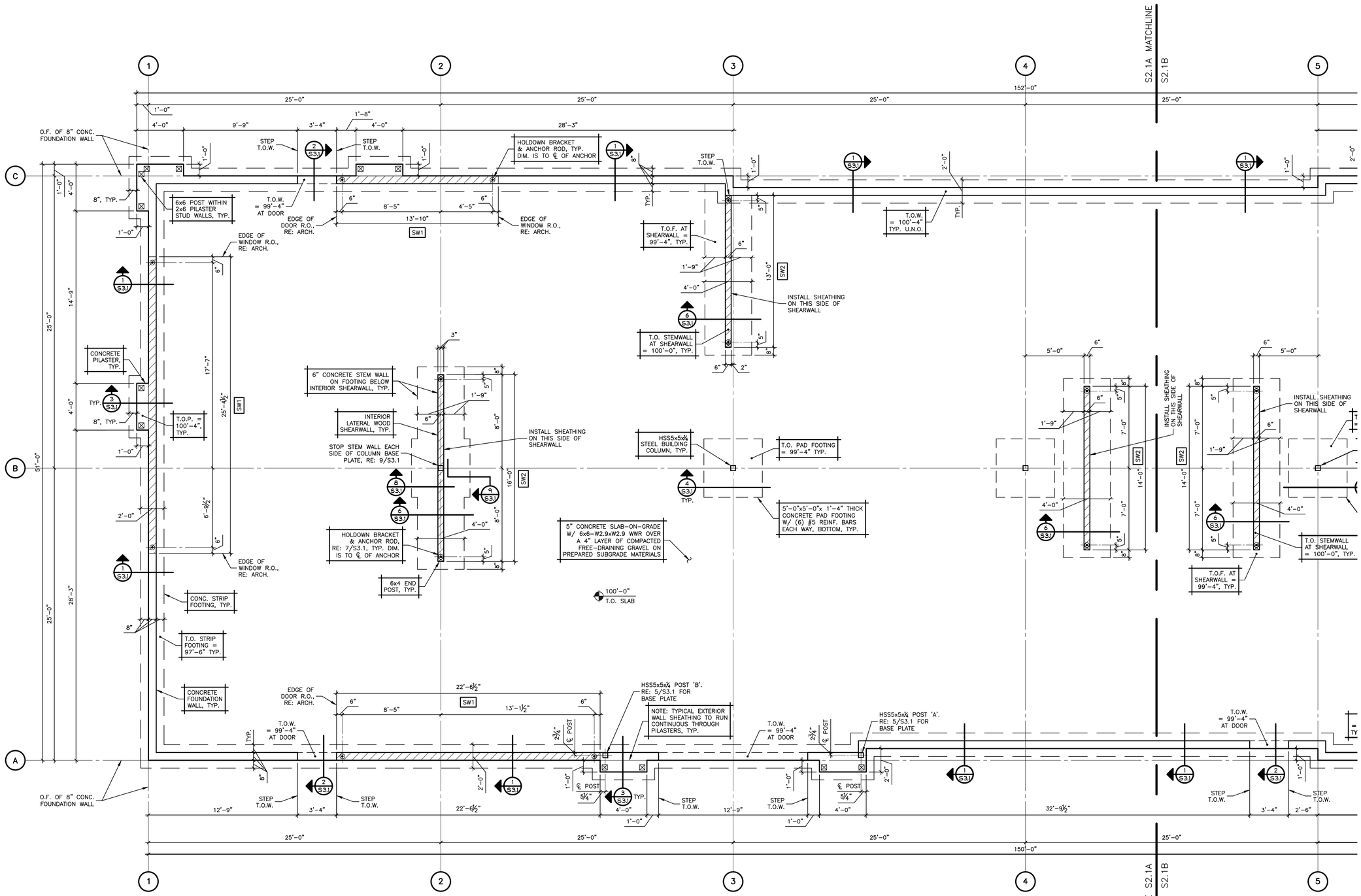
ROOF DESIGN LOAD DIAGRAMS

S1.3



FOUNDATION/FLOOR PLAN – NORTH

1/4"=1'-0"

NOTES:

1. BOXED NOTES INDICATE TYPICAL NOTES, UNLESS NOTED OTHERWISE.
2. TOP OF SLAB ELEVATION = 100'-0". RE: CIVIL PLANS FOR U.S.G.S. ELEVATION.
3. RE: GENERAL NOTES AND DETAIL FOR TYPICAL SLAB-ON-GRADE CONSTRUCTION AND CONTROL JOINT REQUIREMENTS.
4. TOP OF CONCRETE WALL WALL (T.O.W.) = 100'-4", UNLESS NOTED OTHERWISE.
5. TOP OF PILASTER ELEVATION (T.O.P.) = 100'-4", UNLESS NOTED OTHERWISE.
6. ALL FOOTINGS AND FLOOR SLABS SHALL BE CONSTRUCTED OVER PROPERLY CONDITIONED AND COMPACTED SUBGRADE MATERIALS. THE EXISTING FILL MATERIAL WITHIN THE BUILDING FOOTPRINT SHOULD BE REMOVED TO FIRM EOLIAN SOILS, CONDITIONED AND COMPACTED AS ENGINEERED FILL AS SPECIFIED IN THE PROJECT GEOTECHNICAL REPORT. ENGINEERED FILL SHOULD EXTEND LATERALLY 5 FEET OR MORE BEYOND THE FOUNDATION LIMITS AND COVER THE LIMITS OF THE APPURTENANCES THAT ARE ADJACENT TO THE BUILDING. REFER TO THE PROJECT GEOTECHNICAL REPORT FOR ADDITIONAL SUBGRADE PREPARATION REQUIREMENTS AND RECOMMENDATIONS.
7. COMPLETED FOUNDATION EXCAVATION SHALL BE OBSERVED BY A QUALIFIED GEOTECHNICAL ENGINEER PRIOR TO FOUNDATION CONSTRUCTION TO VERIFY SUBGRADE CONDITIONS SPECIFIED IN THE PROJECT GEOTECHNICAL REPORT.
8. CENTER ALL PAD FOOTINGS UNDER COLUMNS, UNLESS NOTED OTHERWISE.
9. CENTER ALL STRIP FOOTINGS UNDER FOUNDATION WALLS, UNLESS NOTED OTHERWISE.
10. RE: ARCHITECTURAL AND M/E/P DRAWINGS FOR REQUIRED SLEEVES OR BLOCKOUTS IN FOUNDATION WALLS AND FLOOR SLABS.
11. RE: ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND ELEVATIONS NOT SHOWN.

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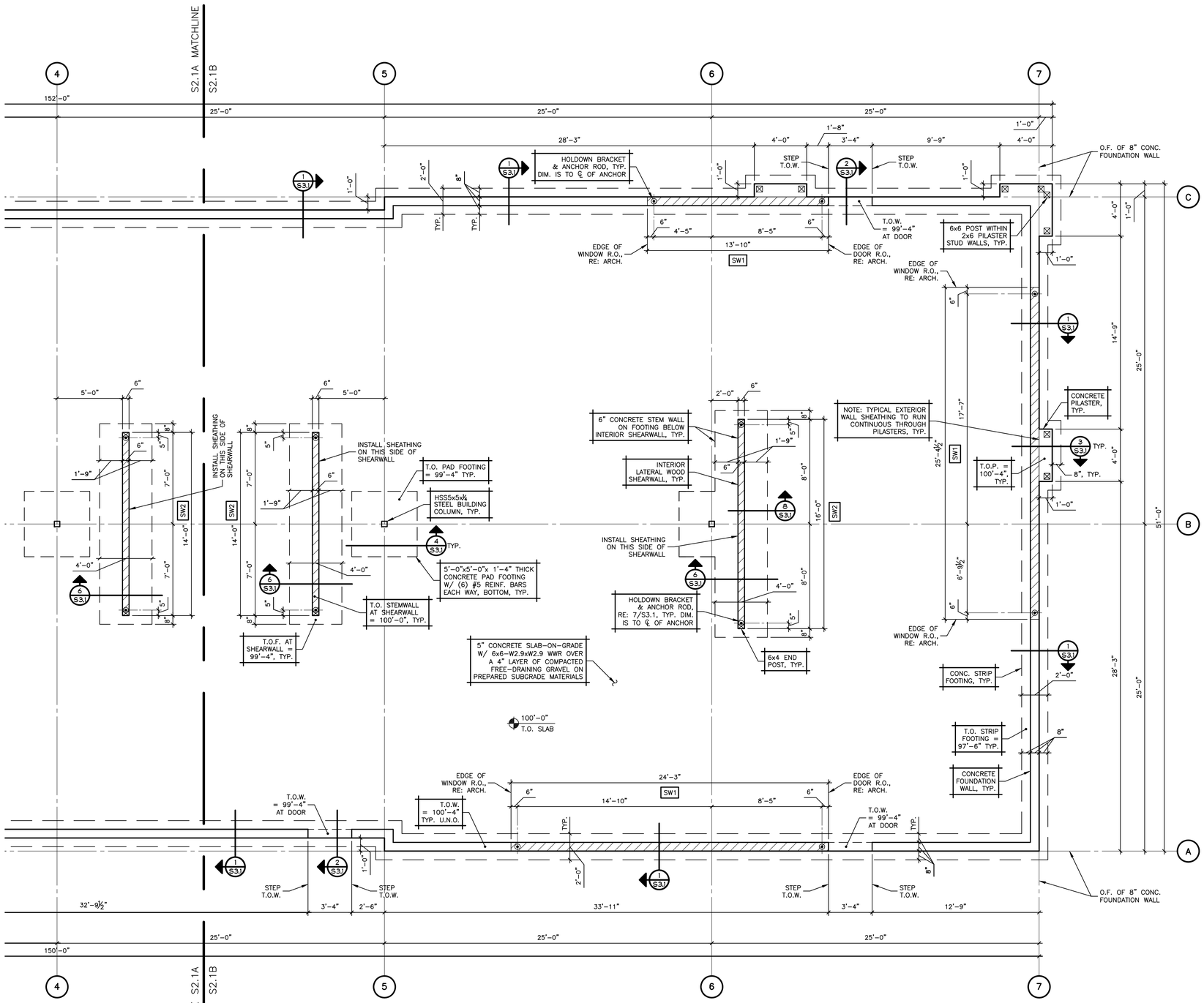
FOUNDATION / FLOOR PLAN - NORTH

S2.1A



FOUNDATION/FLOOR PLAN – SOUTH

1/4"=1'-0"

NOTES:

1. BOXED ⟷ NOTES INDICATE TYPICAL NOTES, UNLESS NOTED OTHERWISE.
2. TOP OF SLAB ELEVATION = 100'–0". RE: CIVIL PLANS FOR U.S.G.S. ELEVATION.
3. RE: GENERAL NOTES AND DETAIL FOR TYPICAL SLAB–ON–GRADE CONSTRUCTION AND CONTROL JOINT REQUIREMENTS.
4. TOP OF CONCRETE WALL WALL (T.O.W.) = 100'–4", UNLESS NOTED OTHERWISE.
5. TOP OF PILASTER ELEVATION (T.O.P.) = 100'–4", UNLESS NOTED OTHERWISE.
6. ALL FOOTINGS AND FLOOR SLABS SHALL BE CONSTRUCTED OVER PROPERLY CONDITIONED AND COMPACTED SUBGRADE MATERIALS. THE EXISTING FILL MATERIAL WITHIN THE BUILDING FOOTPRINT SHOULD BE REMOVED TO FIRM EOLIAN SOILS, CONDITIONED AND COMPACTED AS ENGINEERED FILL AS SPECIFIED IN THE PROJECT GEOTECHNICAL REPORT. ENGINEERED FILL SHOULD EXTEND LATERALLY 5 FEET OR MORE BEYOND THE FOUNDATION LIMITS AND COVER THE LIMITS OF THE APPURTENANCES THAT ARE ADJACENT TO THE BUILDING. REFER TO THE PROJECT GEOTECHNICAL REPORT FOR ADDITIONAL SUBGRADE PREPARATION REQUIREMENTS AND RECOMMENDATIONS.
7. COMPLETED FOUNDATION EXCAVATION SHALL BE OBSERVED BY A QUALIFIED GEOTECHNICAL ENGINEER PRIOR TO FOUNDATION CONSTRUCTION TO VERIFY SUBGRADE CONDITIONS SPECIFIED IN THE PROJECT GEOTECHNICAL REPORT.
8. CENTER ALL PAD FOOTINGS UNDER COLUMNS, UNLESS NOTED OTHERWISE.
9. CENTER ALL STRIP FOOTINGS UNDER FOUNDATION WALLS, UNLESS NOTED OTHERWISE.
10. RE: ARCHITECTURAL AND M/E/P DRAWINGS FOR REQUIRED SLEEVES OR BLOCKOUTS IN FOUNDATION WALLS AND FLOOR SLABS.
11. RE: ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND ELEVATIONS NOT SHOWN.

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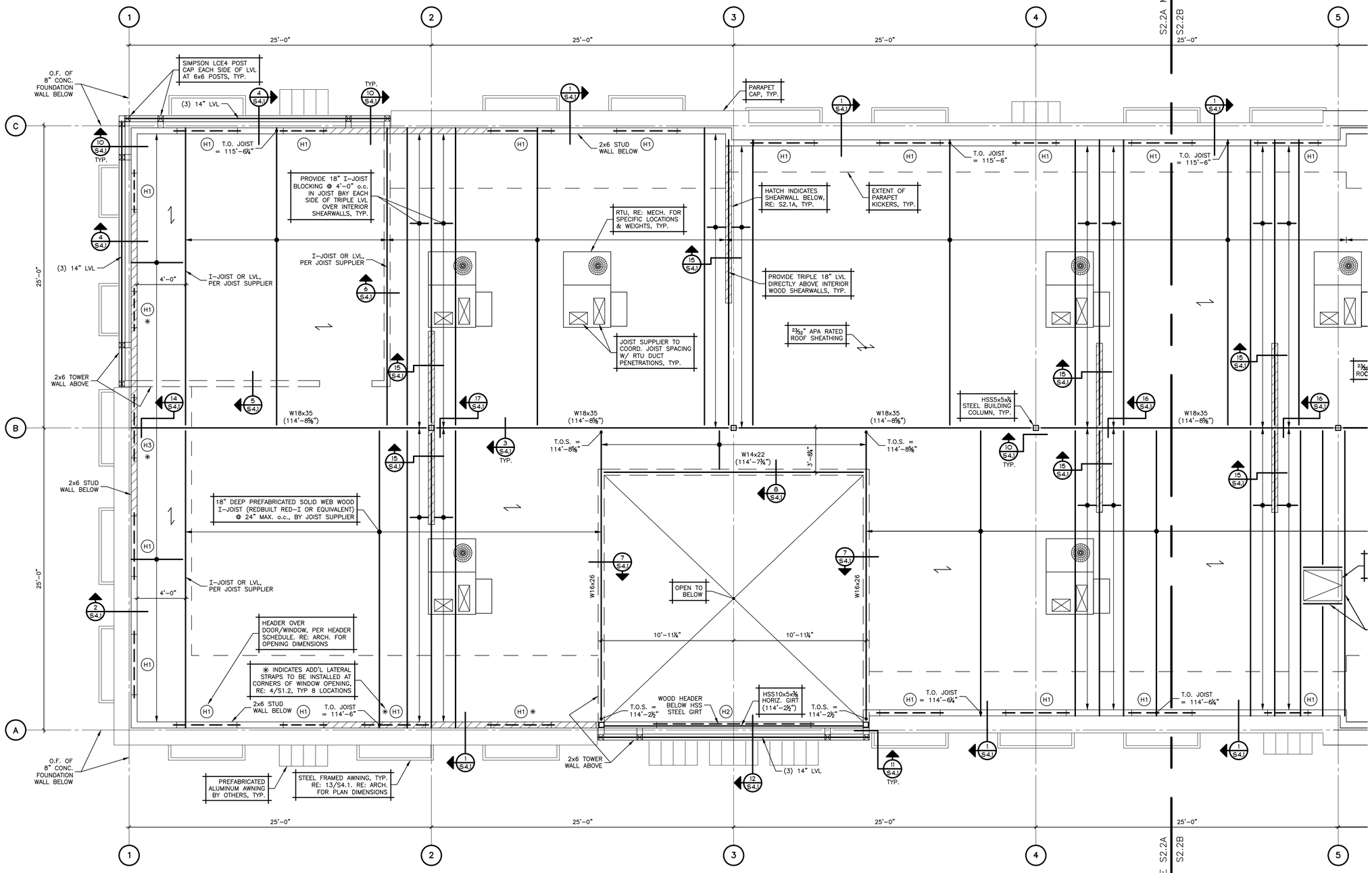
FOUNDATION / FLOOR PLAN - SOUTH

S2.1B



MAIN ROOF FRAMING PLAN – NORTH

1/4"=1'-0"

NOTES:

1. BOXED NOTES INDICATE TYPICAL NOTES, UNLESS NOTED OTHERWISE.
2. INDICATES SPAN DIRECTION OF ROOF SHEATHING. RE: GENERAL NOTES FOR FASTENING REQUIREMENTS.
3. TOP OF LEVEL STEEL BEAM ELEVATION NOTED THUS: (XXX'-XX").
4. T.O.S. INDICATES TOP OF STEEL ELEVATION OF SLOPING STEEL BEAM. SLOPE TOP OF BEAMS BETWEEN ELEVATIONS NOTED.
5. COORDINATE SIZE AND LOCATION OF MECHANICAL UNITS AND ROOF PENETRATIONS FOR MECHANICAL DUCTWORK WITH ARCHITECT, MECHANICAL ENGINEER AND SUPPLIER.
6. RE: ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND ELEVATIONS NOT SHOWN.

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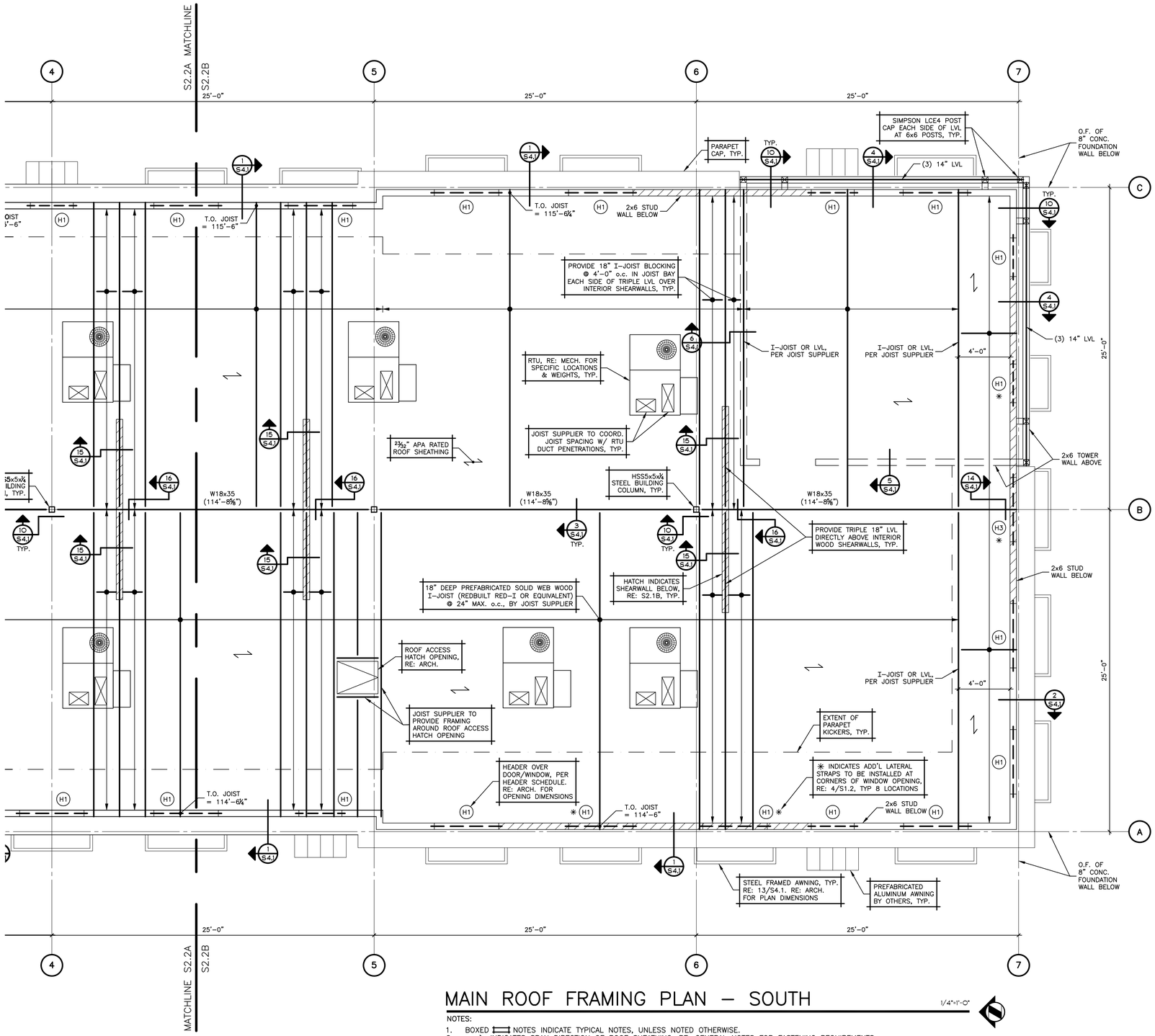
MAIN ROOF FRAMING PLAN - NORTH

S2.2A



MAIN ROOF FRAMING PLAN – SOUTH

1/4"=1'-0"

NOTES:

1. BOXED ⟺ NOTES INDICATE TYPICAL NOTES, UNLESS NOTED OTHERWISE.
2. ⟿ INDICATES SPAN DIRECTION OF ROOF SHEATHING. RE: GENERAL NOTES FOR FASTENING REQUIREMENTS.
3. TOP OF LEVEL STEEL BEAM ELEVATION NOTED THUS: (XXX'-XX").
4. T.O.S. INDICATES TOP OF STEEL ELEVATION OF SLOPING STEEL BEAM. SLOPE TOP OF BEAMS BETWEEN ELEVATIONS NOTED.
5. COORDINATE SIZE AND LOCATION OF MECHANICAL UNITS AND ROOF PENETRATIONS FOR MECHANICAL DUCTWORK WITH ARCHITECT, MECHANICAL ENGINEER AND SUPPLIER.
6. RE: ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND ELEVATIONS NOT SHOWN.

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SHELL BUILDING

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matt@nlengineers.com

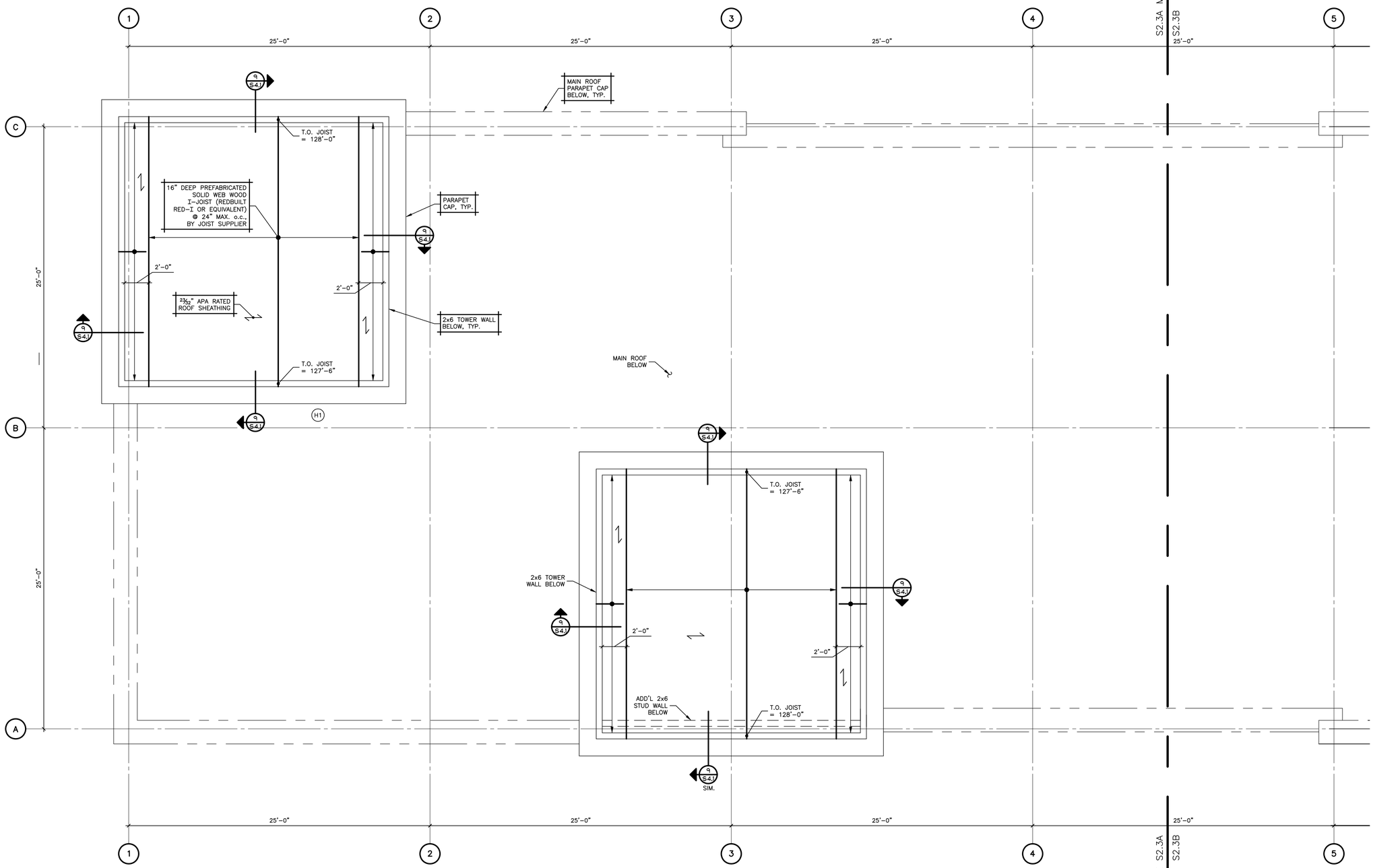
Project Number 25-001

02.11.2025

Rev	Description	Date

MAIN ROOF FRAMING PLAN - SOUTH

S2.2B



UPPER ROOF FRAMING PLAN – NORTH

1/4"=1'-0"

NOTES:

1. BOXED ⟷ NOTES INDICATE TYPICAL NOTES, UNLESS NOTED OTHERWISE.
2. ⟋ INDICATES SPAN DIRECTION OF ROOF SHEATHING. RE: GENERAL NOTES FOR FASTENING REQUIREMENTS.
3. RE: ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND ELEVATIONS NOT SHOWN.

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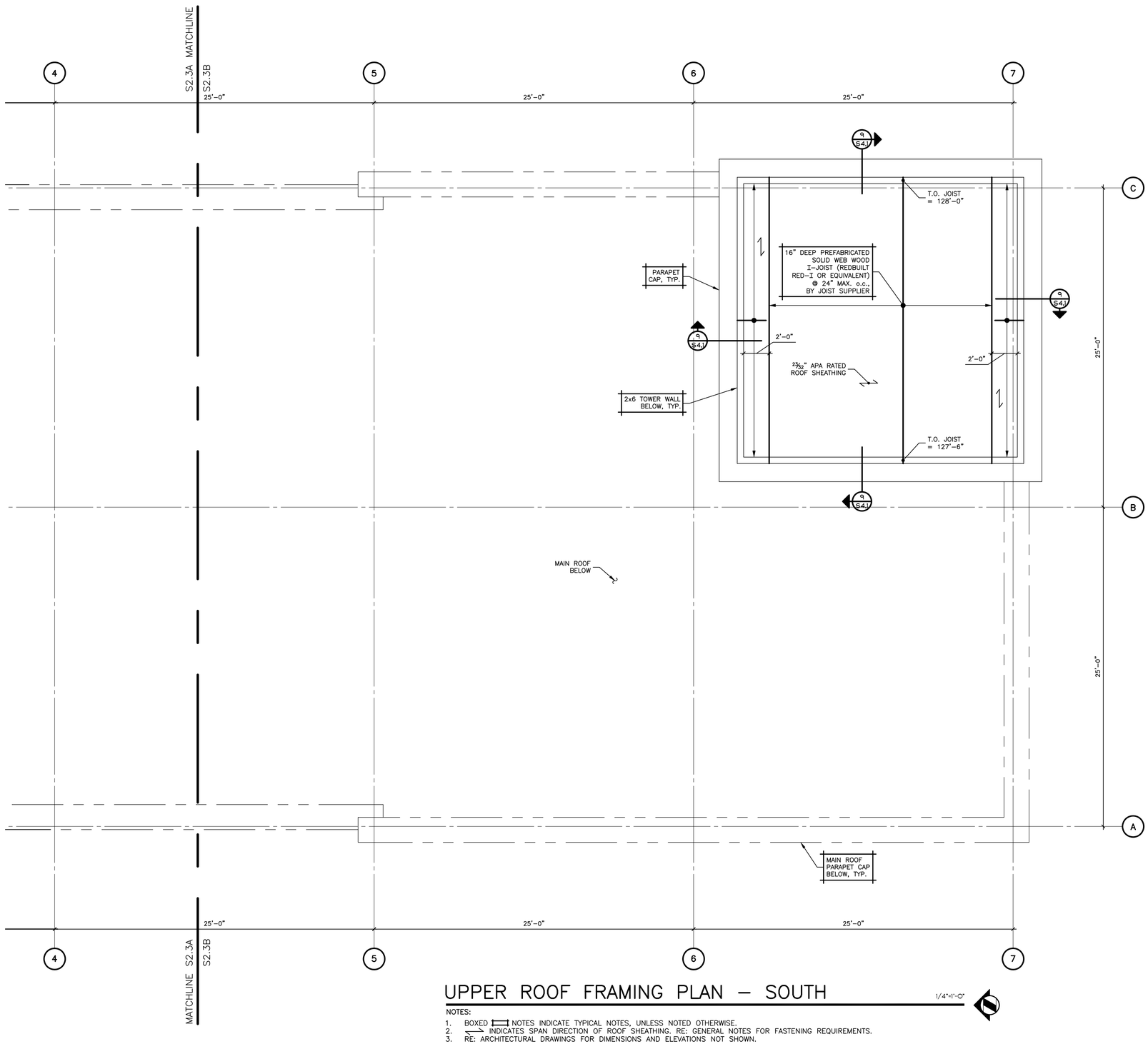
UPPER ROOF FRAMING PLAN - NORTH

S2.3A



UPPER ROOF FRAMING PLAN – SOUTH

1/4"=1'-0"

NOTES:

1. BOXED ⟦⟧ NOTES INDICATE TYPICAL NOTES, UNLESS NOTED OTHERWISE.
2. ⟋⟍ INDICATES SPAN DIRECTION OF ROOF SHEATHING. RE: GENERAL NOTES FOR FASTENING REQUIREMENTS.
3. RE: ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND ELEVATIONS NOT SHOWN.

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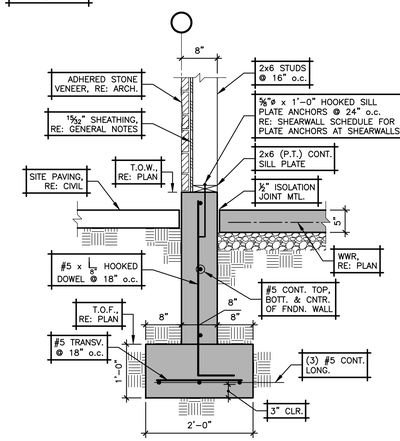
UPPER ROOF FRAMING PLAN - SOUTH

S2.3B

BOXED NOTES INDICATE TYPICAL NOTES, U.N.O.



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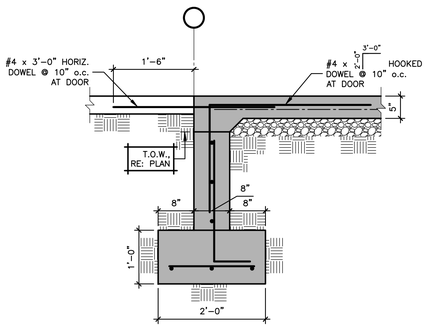

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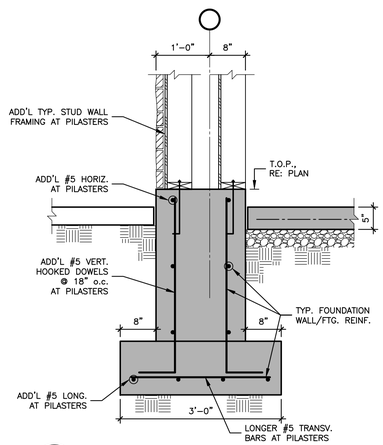

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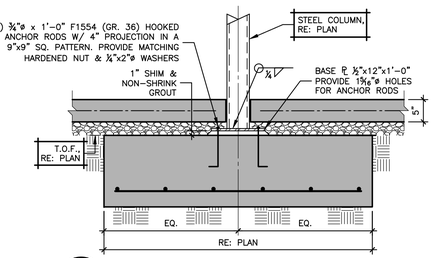

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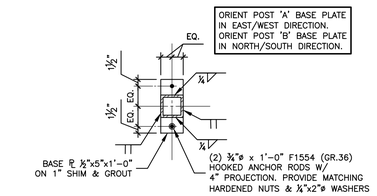

5 BASE PL DETAIL – HSS POST 'A' & 'B' 3/4"=1'-0"

6 3/4"=1'-0"

7 3/4"=1'-0"

8 3/4"=1'-0"

9 3/4"=1'-0"

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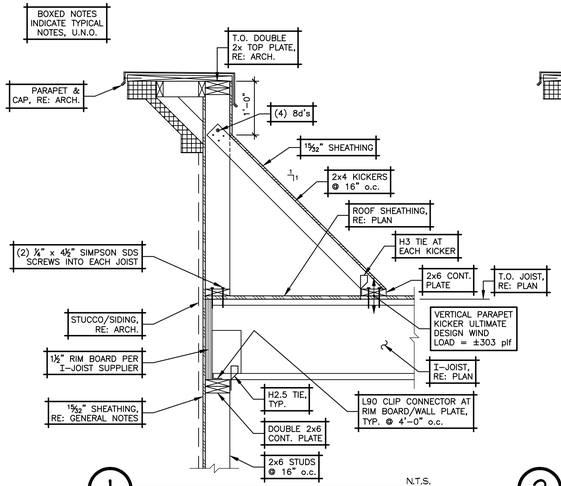
FOUNDATION/
FLOOR DETAILS

S3.1



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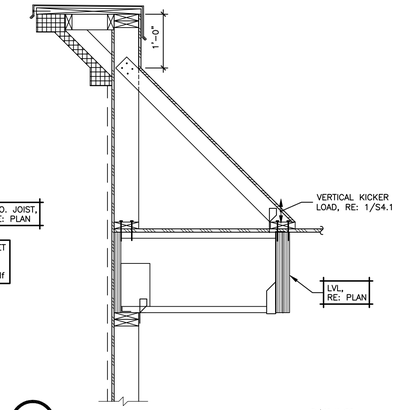

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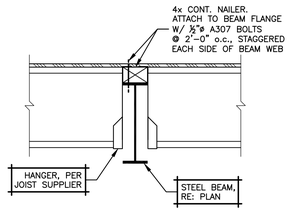

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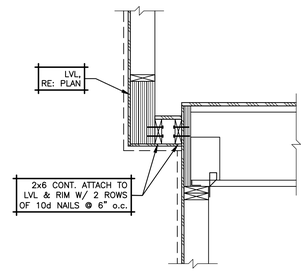

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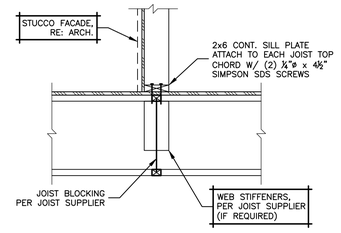

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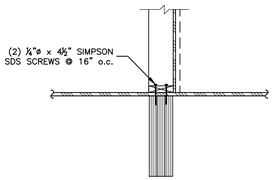

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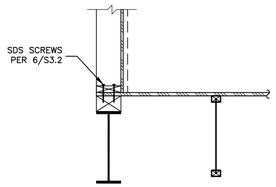

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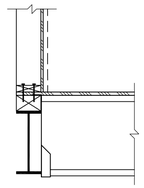

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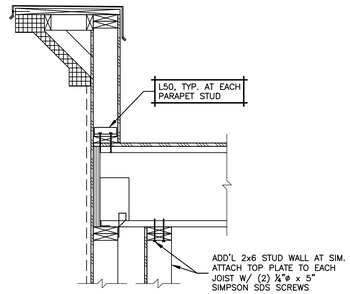

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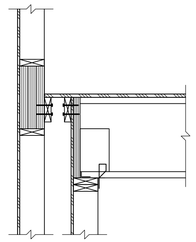

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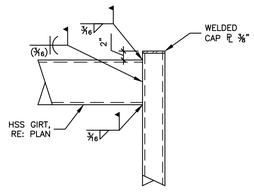

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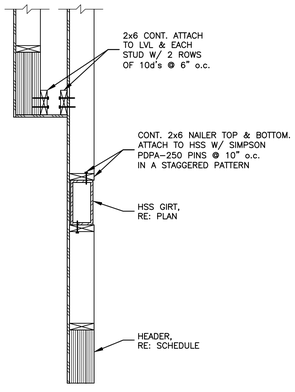

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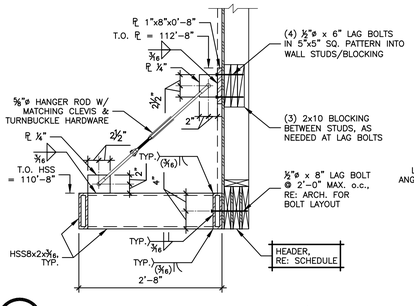

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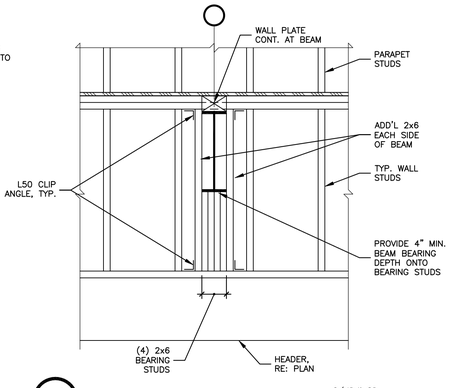

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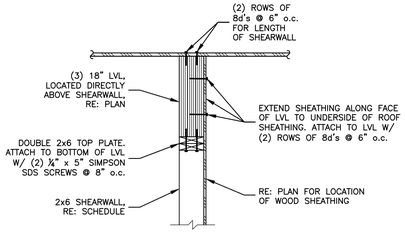

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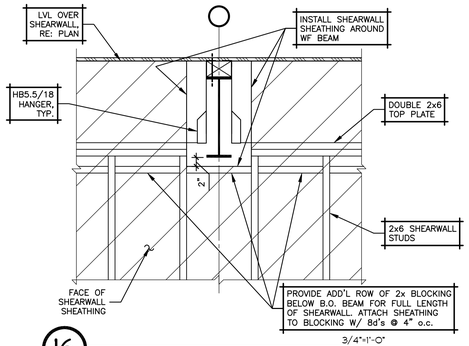

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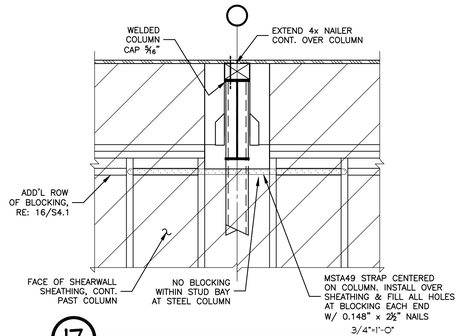

17 3/4"=1'-0"

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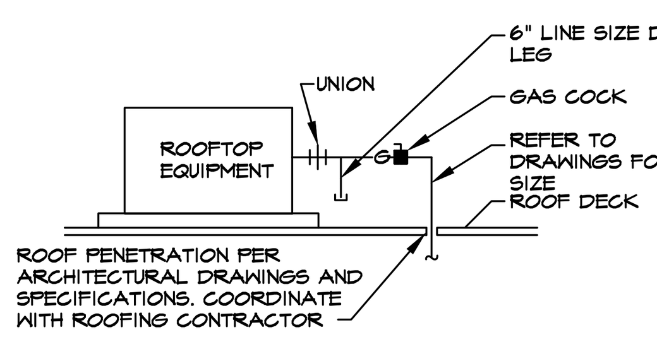
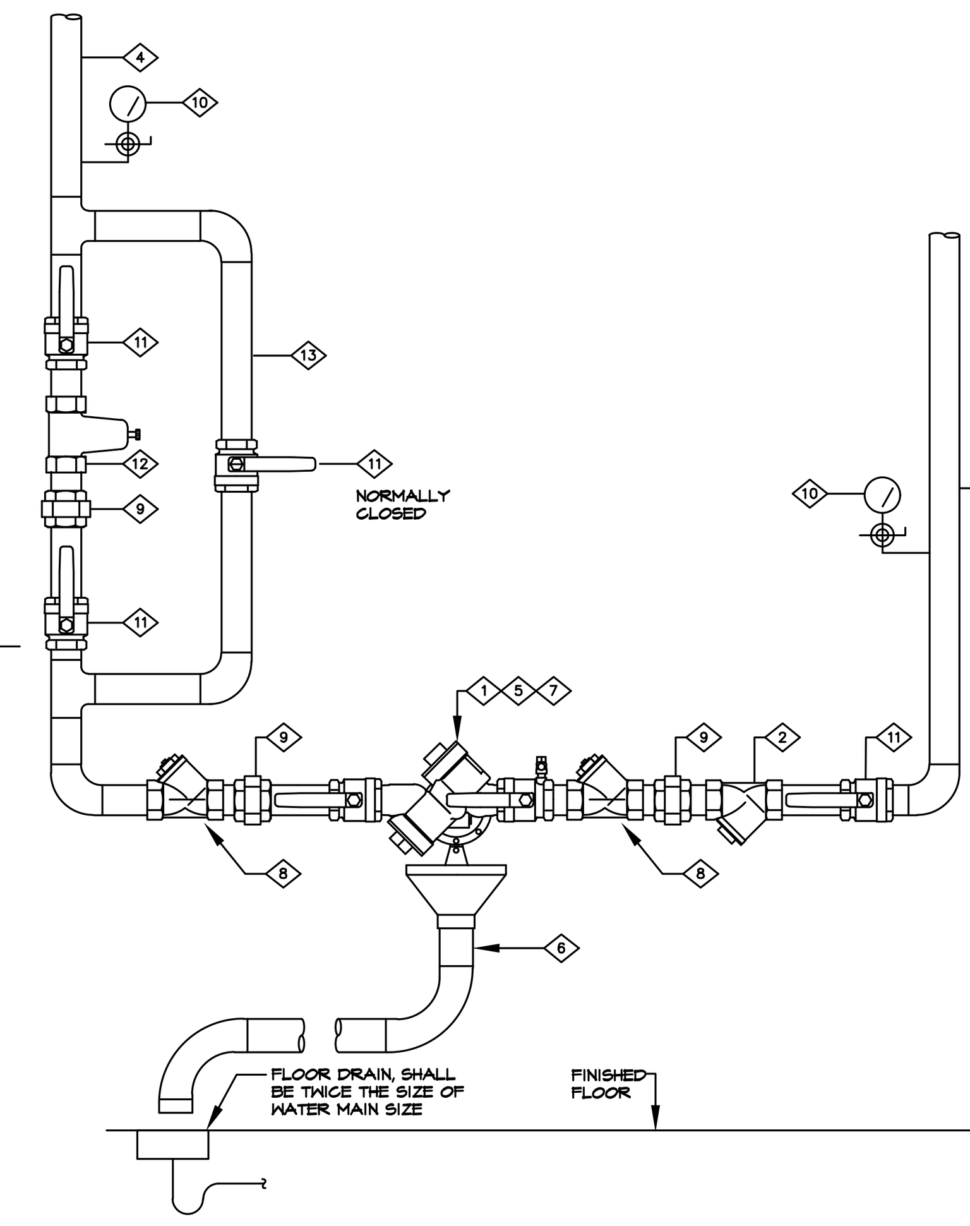
FRAMING DETAILS

S4.1



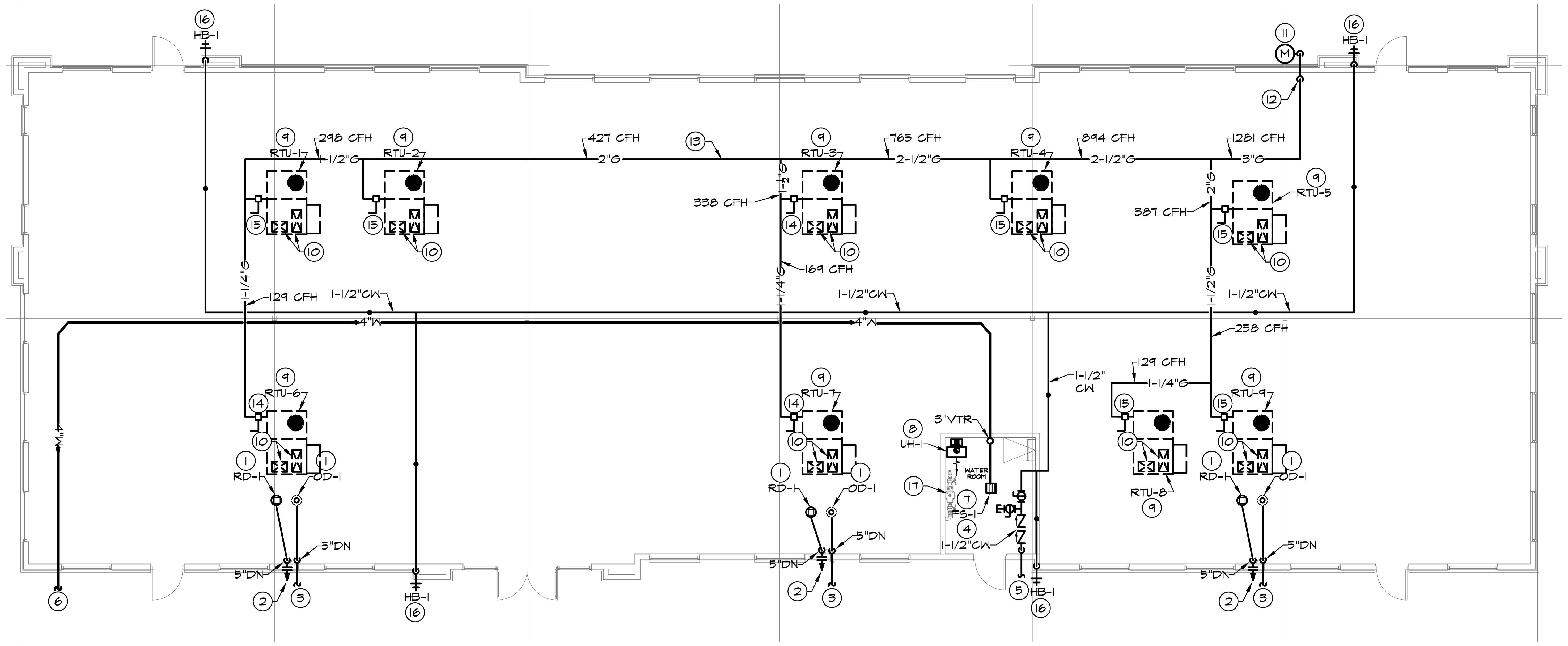
TYPICAL GAS TO RTU DETAIL
NOT TO SCALE



WORK NOTES:

1. 1-1/2" BFP-1, REDUCED PRESSURE BACKFLOW PREVENTER ASSEMBLY, FEBCO MODEL 860. PROVIDE WITH FUNNEL AND DRAIN PIPING TO FLOOR DRAIN.
2. WYE STRAINER, FEBCO MODEL 650 WITH BLOW DOWN PLUGGED.
3. 1-1/2" DOMESTIC WATER MAIN FROM BUILDING MAIN OR POINT OF ENTRY INTO BUILDING.
4. 1-1/2" WATER TO BUILDING.
5. SUPPORT BFP FROM WALL OR FROM PIPE SUPPORTS.
6. FROM AIR GAP FITTING EXTEND INDIRECT DRAIN TO FLOOR DRAIN. INDIRECT DRAIN PIPING SIZE TO MATCH FUNNEL OUTLET. PIPING TO BE BE COPPER WITH SOLDER JOINTS. SUPPORT FROM FLOOR WITH UNISTRUT AND ANCHOR SECURELY TO AVOID MOVEMENT.
7. PROVIDE TESTING AND REPORT ON BACKFLOW PREVENTERS IN ACCORDANCE WITH THE COLORADO CROSS CONNECTION STANDARDS AND STATE PLUMBING CODE REQUIREMENTS.
8. SOFT SEAT BRASS CHECK VALVE.
9. UNION, TYP. LOCATE SO VALVES CAN BE REMOVED FROM PIPING.
10. PRESSURE GAUGE.
11. FULL PORT ISOLATION BALL VALVE (TYPICAL).
12. WATTS 223 PRESSURE REGULATING VALVE. SET OUTLET PRESSURE AT 65 PSI.
13. FULL SIZE BYPASS WITH BALL VALVE (NORMALLY CLOSED). WHERE WATER PRESSURE IS LESS THAN 65 PSI CLOSE OFF PRV AND USE BYPASS.

REDUCED PRESSURE BACKFLOW PRENVENTER DETAIL
NOT TO SCALE



GENERAL NOTES

1. All work shall be in accordance with local codes. These codes shall be followed as a minimum, providing higher grades of materials and workmanship where required. All work shall conform to the requirements of authorities having jurisdiction, and local regulatory agencies.
2. This Contractor is responsible for all aspects of job-site safety. The Engineer is not responsible for means, methods and safety measures employed by the Contractor in the installation of the work depicted on these drawings.
3. Contractor shall inspect the proposed area of construction, and the construction documents prior to bid, to verify that there is adequate clearance for the proposed mechanical installation . In the event the Contractor has observed a discrepancy, or foresees a problem, he must notify the Engineer immediately. All hidden conditions, and unforseen circumstances must be brought to the attention of the Engineer and the Architect immediately when observed.
4. Contractor shall verify existing conditions prior to the fabrication of ductwork and piping components. Carefully coordinate location of equipment and ductwork with ceiling, light fixtures, structural elements, pipes, conduits, and the work of other trades.
5. The mechanical drawings indicate general design and arrangement of pipes, ductwork, equipment, and systems. Drawings are diagrammatic in nature, and do not indicate every required offsets, fittings, etc. Follow drawings as close as actual construction and the work of other trades permits. Provide all minor incidental items such as fittings, offsets, etc. as required, even if not specifically shown on the drawings, or indicated in the specifications.
6. Where the floor slab and foundation walls have already been constructed, the Contractor shall X-Ray the floor slab and foundation walls as necessary to confirm location of structural elements and objects embedded in, or attached to the slab, prior to making any slab or foundation wall penetrations.
7. Refer to the Architectural drawings and existing conditions at the site for exact location of partitions, walls, plumbing fixtures and general construction. Coordinate all grilles, registers, and louver locations with the Architectural drawings.
8. Provide all earthwork, trenching, backfill and compaction per the most recent soils report. Obtain soils report from the Building Owner/Building Management prior to the commencement of work.
9. The Contractor shall warrant all work for a period of one (1) year following acceptance of the work by the Building Owner/Building Management.

HVAC GENERAL NOTES

1. The work included under these construction documents consists of providing all equipment, labor, supervision, and construction procedures necessary for the installation of complete mechanical system(s) required by, or shown on these drawings. Contractor shall pay for all permits and/or fees required for the work.
2. All work shall be installed in accordance with local codes. All work shall conform to the requirements of authorities having jurisdiction, and local regulatory agencies.
3. This Contractor is responsible for all aspects of job-site safety. The Engineer is not responsible for means, methods and safety measures employed by the Contractor in the installation of the work depicted on these drawings.
4. The mechanical drawings indicate general design and arrangement of pipes, ductwork, equipment, and systems. Drawings are diagrammatic in nature, and do not indicate every required offsets, fittings, etc. Follow drawings as close as actual construction and the work of other trades permits.
5. All work shall be installed from field dimensions to assure that it can be installed as shown. Any conflicts shall be brought to the attention of the Architect and the Engineer immediately for resolution prior to fabrication of components, or installation of equipment. Carefully coordinate location of equipment and ductwork with ceiling, light fixtures, existing systems, structural elements, and the work of other trades.
6. Provide and connect all appliances, equipment, ductwork, piping, and accessories as specified and indicated for this project, in accordance with all applicable codes, manufacturer's published installation instructions, and as specified. Provide complete mechanical connections and terminations as indicated, and as required for complete and functional system(s). Coordinate with other trades, the Architect and conditions at the site to establish the actual location of each system.
7. The Contractor is responsible to coordinate all work under his contract, with the work of all other trades.
8. The equipment specified on these drawings has been selected as the basis for the design. The use of specified, or approved equals shall be coordinated by the Contractor as to space, configuration, and performance. Materials, equipment, and installation shall be guaranteed for a period of one (1) year after Building Owner acceptance.
9. All equipment shall be installed in accordance with the manufacturer's recommendations and published installation instructions, maintaining all necessary clearances for service and repair.
10. Installation of equipment on the roof, and all roof penetrations shall be coordinated with the structure, and with the Roofing Contractor. Access to the units shall meet the requirements of current codes as adopted by the local authority having jurisdiction for roof access.
11. Contractor shall verify existing conditions at the site prior to the purchase or fabrication of materials, components, equipment, and the commencement of work. The bid shall serve as evidence of the Contractor's knowledge of the existing conditions. Notify the Architect and the Engineer of any conflicts requiring resolution as soon as such conflicts become apparent. Carefully coordinate location of equipment and ductwork with ceiling, light fixtures, structural elements, piping, conduits, and the work of other trades.
12. Refer to the Architectural drawings for exact location of partitions, walls, and general construction. Coordinate all grilles, registers, and louver locations with the Architectural drawings.
13. Where applicable, all new ductwork shall be sheet-metal, fabricated and installed in accordance with SMACNA Standard for low velocity ducts. Dimensions shown are outside sheet-metal. Provide 1" acoustic duct liner in rectangular ducts. Exhaust ductwork shall not be acoustically lined. Rigid round ducts shall be spiral round type only. All new rigid ductwork within the area of this scope of work shall be sealed with Rexcel, high velocity duct sealer 644600W/B as made by Rexcel Coatings Corporation of El Paso, Texas, "Iron Grip", "Flexigrip" or equal. Duct tape, or any other adhesive tape, is not acceptable as sealant for rigid ducts. Flexible ducts exposed to view, located above GB ceilings, or used for exhaust, shall be corrugated soft aluminum, U.L. approved, and be 4'- 0" minimum, 8'- 0" maximum in unbroken length. Splicing of flexible ducts is not permitted. Ductwork shall be painted per the Architects instructions. (Typical)
15. Piping in exterior walls shall be located at the interior part of the wall, with insulation between the pipe and the exterior part of the wall.
16. Where applicable, all duct and pipe penetrations through walls shall be properly sealed.
17. Use turning vanes in all 90 and 45 degree duct turns in rectangular ducts.
18. The Tenant shall provide and install programmable electronic thermostats to control the new packaged rooftop HVAC units under the tenant improvement phase. Thermostats shall be as made by Honeywell model 7300 electronic programmable thermostat, complete with one averaging temperature sensor.
19. Provide and install smoke detector in the return air duct of each rooftop HVAC unit specified to provide 2,000 or more CFM. Detector shall shut down HVAC unit upon smoke detection. Detector furnished by the Electrical Contractor, installed in the duct by the Mechanical Contractor, and wired by the Electrical Contractor.
20. Line voltage wiring, and wiring required to be in conduit, by the Electrical Contractor. Low voltage wiring not required to be in conduit, by the Mechanical Contractor.

PLUMBING SPECIFICATIONS AND GENERAL NOTES

1. All plumbing work shall be performed in accordance with the latest edition of the International Plumbing Code (IPC), International Mechanical Code (IMC), International Fuel Gas Code (IFGC), and as adopted by the local authorities having jurisdiction, as required by the State of Colorado and the amendments of local authorities having jurisdiction.
2. Prior to installation of any piping, this Contractor shall verify that the piping can be routed as shown in coordination with Contractors of other divisions of the work and the physical constraints of the Structural and Architectural work.
3. This Contractor shall furnish all labor, materials, tools, supervision and equipment required to complete the plumbing work as shown on the plumbing drawings. Provide all items such as fittings, hangers, insulation, and accessories required as part of the work even though not indicated. Drawings are diagrammatic in nature, and do not show all fittings, riser nipples, arm-overs, hangers, etc. Plumbing drawings are schematic and are not to be scaled. Refer to the Architectural Drawings for dimensions.
4. This Contractor shall maintain at the site one (1) copy of all drawings in good order and record changes made during the construction. Upon completion of work, this Contractor shall prepare and submit to the Owner a reproducible "As-Built" drawing.
5. Provide sleeves for all pipes passing through concrete walls and floors. Provide chrome plated escutcheons for piping penetrations through ceilings, walls and floors where piping is exposed, in order to connect to equipment or fixtures in finished areas. Conceal all other work in finished areas.
6. This Contractor shall not cut through structural members without written consent from the Structural Engineer and the General Contractor.
7. This Contractor shall secure and maintain for the term of this contract all insurance policies or coverage as required by contract and the laws of the State.
8. Coordinate all work with the work of other trades to insure that all work can be installed in an expedient and workmanlike manner. This Contractor shall cooperate with other Contractors in the placement of work to avoid conflicts and to maintain project progress. The General Contractor shall be advised of all conflicts.
9. This Contractor shall obtain permits and pay fees associated with the plumbing system installation. This Contractor shall also be responsible for arranging plumbing inspections with the appropriate building officials.
10. This Contractor is responsible for excavation required for plumbing work. When in-filling excavations, compact to 95% AASHTO Proctor density in 6 inch maximum layers at optimum moisture content. Should any settlement occur within the first year, this Contractor shall rework to original elevation and resolve any damage incurred to the Owner's satisfaction.
11. All materials, equipment and devices furnished by this Contractor shall be guaranteed to be free from mechanical defects or faulty workmanship for a period of one year from date of acceptance by Owner.
12. Permanently seal around all pipe penetrations through foundation walls.
13. Properly seal fire rated wall penetrations with fire stopping materials as specified by the Architect where applicable. (Division 7).
14. Provide testing in accordance with the International Plumbing Code and General Conditions of the Contract. Conduct testing on piping and related systems in accordance with the referenced code, the State of Colorado, local jurisdiction and the latest standards.
15. Hangers, supports, and components shall be factory fabricated according to MSS-SP-2009. Pipe supports shall be adjustable band hangers, similar and equal to B Line Fig. B 3172 and Fig. B 3172 CT, with zinc electroplating for steel pipe, and copper electroplating for copper tube.
16. Insulation shall have a flame spread rating of 25 or less and a smoke developed rating of 50 or less and shall be manufactured by Certainteed, Knauf or Owens-Corning. All potable cold water shall be insulated with 1/2" thick and all potable hot water shall be insulated with 1" thick fiberglass pipe insulation and vapor barrier. Minimum thermal conductivity shall be 0.3 at 200oF.
17. Soil, waste and vent pipes and fittings below grade shall be service weight hub and spigot cast iron with neoprene gaskets or schedule 80 PVC pipe.
18. Soil and Waste above grade: DWV copper, service weight cast iron soil pipe with no-hub fittings, or Schedule 40 PVC pipe.
19. Potable water piping routed within the building shall be type "L" copper tube with wrought copper fittings and 95% tin, 5% antimony soldered joints. All potable water piping within the building shall be insulated. Insulation shall be covered with all-service jacket. Potable water piping under the floor slab and outside the building shall be type K copper without joints. When joints are necessary, they shall be braised. It may be necessary to install vinyl wrapping for copper pipes below grade if there is reason to believe that the soil is corrosive.
20. Natural gas piping 2" and larger shall be black steel Sch. 40 ASTM A53, type S grade B pipe for butt weld, and fittings to be seamless carbon steel butt weld, ASTM A234; 1-1/2" and smaller: Sch. 40 black steel ASTM with 150 lb. malleable iron fittings and threaded joints. Concealed gas pipe shall have welded joints. Gas piping shall be painted per the building standards.
21. Provide valves with proper pressure rating and application determined by the system type and working pressure. The following manufactures are acceptable: Apollo, Milwaukee, Nibco, Dezurik or equal.
22. Provide a pressure reducing station with strainers and ball valves at the domestic water service entry if the water service pressure exceeds 60 psi.
23. All condensing appliances located inside the building shall have condensate drainage properly piped into the adjacent floor drain.
24. Soil, waste and vent systems shall be air pressure tested at 10 psig for 30 minutes with no leaks. Potable water pipes, valves, and fittings shall be disinfected , and air pressure tested at 125 psig for 60 minutes with no drop in pressure. Natural gas systems shall be tested at 100 psig air pressure for three (3) hours with no drop in pressure, with joints tested using standard soap and brush inspection.
25. Storm drainage piping above ground: no-hub cast iron service weight, cispi 301, with joints made of neoprene gaskets and stainless steel clamp and shield assemblies.
Below ground: service weight cast iron, class b, astm a74, hub and spigot, cispi hsn compression type with astm c564 neprene gaskets.

HVAC EQUIPMENT

Rooftop HVAC unit selection is based on Carrier. Trane and York may bid equal equipment. All packaged rooftop HVAC units above 5.0 Ton nominal capacity shall be equipped with power exhaust. Rooftop HVAC units shall be provided with insulated factory roof curb, belt drive, hail guards and coil guards. All units shall be equipped with single point enthalpy controlled economizer cycle.

Contractor shall install formed "P" trap with minimum depth of 2" on all rooftop HVAC units condensate drain connection. Condensate shall daylight on roof. All units shall be furnished with standard factory color, and shall be clearly marked as to the area they serve per the requirements of the International Mechanical Code (IMC). All cooling capacities listed are at 5,300 feet above sea level

ROOFTOP HVAC UNIT (RTU-1, 2, 4, 5, 8 AND 9)
Carrier single package rooftop unit model 48JCRV04F2M5-3U4F0.
Gross sensible cooling capacity: 32,490 BTUH
Gross total cooling capacity: 26,800 BTUH
1,200 CFM at 1.0" w.g. ESP, 81oF db/62oF wb EAT and 95oF ambient.
Gas fired heating section input: 115 MBH. Output: 82 MBH at altitude.
Electrical Data: MCA: 22.0 Amps. MOCP: 30 Amps at 208-3-60.
Approximate operating weight: 961 lbs.
1)Provide staged fan with EC Motor and powered exhaust.
2)Provide hinged access doors.
3)Provide 14" roof curb.
4)Provide louvered condenser coil hail guard.
5)Provide factory installed convenience outlet.
6)Provide installed fused disconnect.
7)Provide return air smoke detector.
8)Provide 100% design supply low leak economizer with fault protection. Provide high-limit shutoff.
9)Provide Connectastat programmable thermostat with 5 degree dead band.
10)Provide SEER of 20.0 minimum.

Fan speed shall be adjusted to deliver 1,200 CFM. Blance outside air to 300 cfm. Install smoke detector in the return air duct of the unit. Detector shall be provided by the Electrical Contractor, installed in the duct by the Mechanical Contractor, and wired by the Electrical Contractor. Smoke detector shall be compatible with, and connected to the building smoke control system where applicable. The smoke detector shall shut down unit upon smoke detection per section 606 of the International Mechanical Code (IMC).

ROOFTOP HVAC UNIT (RTU-3, 6 AND 7)
Carrier single package rooftop unit model 48LCF0052N5-0N5C0.
Gross sensible cooling capacity: 41,300 BTUH
Gross total cooling capacity: 41,300 BTUH
1,600 CFM at 1.0" w.g. ESP, 81oF db/62oF wb EAT and 95oF ambient.
Gas fired heating section input: 150 MBH. Output: 91 MBH at altitude.
Electrical Data: MCA: 32.0 Amps. MOCP: 45 Amps at 208-3-60.
Approximate operating weight: 873 lbs.
1)Provide staged fan with EC Motor and powered exhaust.
2)Provide hinged access doors.
3)Provide 14" roof curb.
4)Provide louvered condenser coil hail guard.
5)Provide factory installed convenience outlet.
6)Provide installed fused disconnect.
7)Provide return air smoke detector.
8)Provide 100% design supply low leak economizer with fault protection. Provide high-limit shutoff.
9)Provide Connectastat programmable thermostat with 5 degree dead band.
10)Provide SEER of 19.0 minimum.

Fan speed shall be adjusted to deliver 2,000 CFM. Blance outside air to 500 cfm. Install smoke detector in the return air duct of the unit. Detector shall be provided by the Electrical Contractor, installed in the duct by the Mechanical Contractor, and wired by the Electrical Contractor. Smoke detector shall be compatible with, and connected to the building smoke control system where applicable. The smoke detector shall shut down unit upon smoke detection per section 606 of the International Mechanical Code (IMC).

ELECTRIC UNIT HEATER (UH-1)
QMark model MUH-03-81 with adjustable discharge louvers, built-in integral thermostat and optional wall bracket model MMB-10. Install unit suspended from the wall, immediately below the ceiling. 3.0 kW at 208 V-1-60, 350 CFM. Bottom of unit heater shall be at no more that 8'-0" AFF. Approximate dimensions: 14" W x 16" H x 7.5" D. Approximate operating weight: 27 lbs. Thermostat shall be set to 50°F (Adjustable).

PLUMBING FIXTURES AND EQUIPMENT

NOTE: Final selection, and approval of all plumbing fixtures is the responsibility of the Building Owner. The following fixture specifications represent the Engineers understanding of the required fixtures. These specifications shall be reviewed by the Building Owner. Contractor shall not place any purchase orders for the fixtures prior to obtaining written approval from the Building Owner.

FLOOR SINK (FS-1): Josam model 49000 indirect floor sink waste receptor. 8" square by 6" deep acid resistant porcelain enameled interior, and nickel bronze grate. Flashing flange and removable Lumaloy dome bottom strainer. Provide complete with cast iron "P" trap, and half grate configuration, unless shown otherwise.

ROOF DRAIN (RD-1): J.R. Smith model 1470-NB or equal. See plans for size.

OVERFLOW DRAIN (OD-1): J.R. Smith model 1070 or equal. See plans for size.

BACKFLOW PREVENTION DEVICE (BFP-1): Febco 1-1/2" reduced pressure backflow preventer model 825-Y complete with discharge drain funnel, test cocks and optional ball valve shut-offs. Install bronze Y strainer upstream of the device.

HOSE BIBB (HB-1): Woodford Model B-65 freezeless wall hydrant with chrome finish brass casing with hinged locking cover and 3/4" hose connection outlet and integral vacuum breaker.

All plumbing fixtures must be approved by the Building Owner prior to placement of the purchase order. Provide and install all anchors, supports, traps and trim, for a complete installation. Provide stop valves on all hot and cold water connections to fixtures. Properly caulk around fixtures with silicone based caulking compound. Note: Fixtures shall be installed to meet all current ADA requirements where applicable. Where plumbing equipment and trim protrude into knee space below ADA designated lavatories and sinks, they shall be covered with safety covers as made by Brocar Products, Inc. of Cincinnati, Ohio under the trade name Trap Wrap, or as made by Truebro, Inc. of Ellington, Connecticut, under the trade name Handi-Lav-Guard.

MECHANICAL PLAN KEYED NOTES

1. Total storm drain area = horizontal area + ½ X vertical area = 3,000 sqft.
2. Terminate overflow drain with lambs tongue. Refer to architect for details.
3. Storm drain down through slab and 5'-0" outside building and connect to storm drain system. Refer to civil drawings for continuation and invert elevation.
4. Provide 1-1/2" Febco model 860 or equal, reduced pressure backflow preventer as shown. Dumping port of backflow prevention device shall be piped into adjacent floor sink. Install bronze Y strainer upstream of the device.
5. Connect new 1-1/2" potable cold water pipe to the potable water service as shown. See Civil drawings for additional information.
6. 4" sanitary waste pipe 5'-0" outside the building. Refer to the Civil drawings for information and continuation. Pipe shall slope at a minimum of 1/8" per L.F.
7. Rough-in and connect 4" waste and 1-1/2" vent to the floor sink specified.
8. Provide new electric unit heater immediately below the ceiling, complete with thermostat. Adjust front louvers to discharge the air in a downward direction. Set thermostat to 50oF.
9. Provide new packaged rooftop HVAC unit on the roof with full perimeter roof curb. Air intake shall be no less than 10'-0" from any exhaust discharge, or sanitary vent. Install formed "P" trap for condensate drain in accordance with the manufacturer's published installation instructions. Place 24" x 24" concrete paver on the roof below the condensate drain discharge. Contractor shall label unit as to the area it serves, per the requirements of current codes as adopted by the local authority having jurisdiction.
10. Supply and return air ducts duct opening to remain without ductwork under the shell package. Temporarily suspend below the unit new Carrier Connectastat electronic programmable thermostat. (Typical)
11. Contractor shall coordinate with the local utility company to install gas service. Design service for 1,140 MBH (1,281 CFH) capacity. Gas pipe sizing is based on 0.5" w.g. pressure drop and total developed length as noted in accordance with Table 402.4(2) of the International Fuel Gas Code (IFGC). Install gas meter in this location. Installation of the gas meters by the local utility company. Gas piping downstream of the meter , by this contractor. Connection to the gas meter shall occur after appliances have been connected to the gas pipe.
12. Provide new gas pipe up through to the roof. Terminate with roof jack. Properly seal roof penetration. Gas pipe routed concealed inside a wall shall have no threaded joints within the concealed space. If joints are required, they shall be welded. Coordinate riser locations with final tenant improvement drawings. (Typical)
13. Gas pipe routed on the roof. Install pipe supports per the requirements of Table 415.1 of the International Fuel Gas Code (IFGC) Typical of all gas piping on the roof.
14. Connect gas pipe to the new packaged rooftop HVAC unit. Gas pipe connection to the rooftop HVAC unit shall be made with lubricated plug valve and 6" dirt leg. Connected load: 150 MBH/169 CFH. Total developed length: 250 feet.
15. Connect gas pipe to the new packaged rooftop HVAC unit. Gas pipe connection to the rooftop HVAC unit shall be made with lubricated plug valve and 6" dirt leg. Connected load: 115 MBH/129 CFH. Total developed length: 250 feet.
16. Rough-in and connect 1/2" CW to hose bibb specified.
17. Fire service entry into the building. See the "Design-Build" fire protection contractor's drawings for additional information.

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Not all dimensions appearing on this drawing have been verified. If dimensions are to be used for placement of permanent objects, and/or greater precision is needed, they must be verified prior to use.

No	Revision / Submissions	Date

NORTH

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Email: info@battistadesign.net
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BATTISTA DESIGN GROUP

SVA GREELEY
Shell Building
1911 59th AVENUE
GREELEY, CO 80634

MECHANICAL PLAN

Designed: RMS	Project Number: 45010.0
Drawn: RMS	Scale: 1/4"=1'-0"
Checked: RMS	Drawing Number:
Reviewed: RMS	M-1
Date: FEB 2025	1 of 2

COLORADO LICENSED PROFESSIONAL ENGINEER 42788

PANEL "P1"

VOLTS: 208/120V,3PH,4W
MAINS: 600A M.L.O.
A.I.C.: 22KA

MTG: FLUSH NEMA 1
MFGR: CH/ITE/SQD/GE
TYPE: BOLT-ON

DESCRIPTION	T	KVA	BKR	CKT#	CKT#	BKR	KVA	T	DESCRIPTION
RTU-1	M	2.38	30A	1	2	30A	2.38	M	RTU-2
-	M	2.38		3	4		2.38	M	-
-	M	2.38	3P	5	6	3P	2.38	M	-
RTU-3	M	3.46	45A	7	8	30A	2.38	M	RTU-4
-	M	3.46		9	10		2.38	M	-
-	M	3.46	3P	11	12	3P	2.38	M	-
RTU-5	M	2.38	30A	13	14	45A	3.46	M	RTU-6
-	M	2.38		15	16		3.46	M	-
-	M	2.38	3P	17	18	3P	3.46	M	-
RTU-7	M	3.46	45A	19	20	30A	2.38	M	RTU-8
-	M	3.46		21	22		2.38	M	-
-	M	3.46	3P	23	24	3P	2.38	M	-
RTU-9	M	2.38	30A	25	26				SPACE
-	M	2.38		27	28				SPACE
-	M	2.38	3P	29	30				SPACE
SPACE				31	32				SPACE
SPACE				33	34				SPACE
SPACE				35	36				SPACE
SPACE				37	38	200A	0.90	P	SUBFEED P2
SPACE				39	40		0.72	P	-
SPACE				41	42	3P		P	-

LOAD KVA	REC	MTR	TOTAL
CONNECTED	1.6	73.9	75.5
NEC DEMAND	1.6	76.5	78.1
AMPS			217

PHASE KVA	A = 25.5	B = 25.4	C = 24.6
PHASE IMBALANCE (%)	A/B = 0.7	B/C = 2.9	C/A = 3.7

PANEL "P2" **

VOLTS: 208/120V,3PH,4W
MAINS: 200A M.L.O.
A.I.C.: 22KA

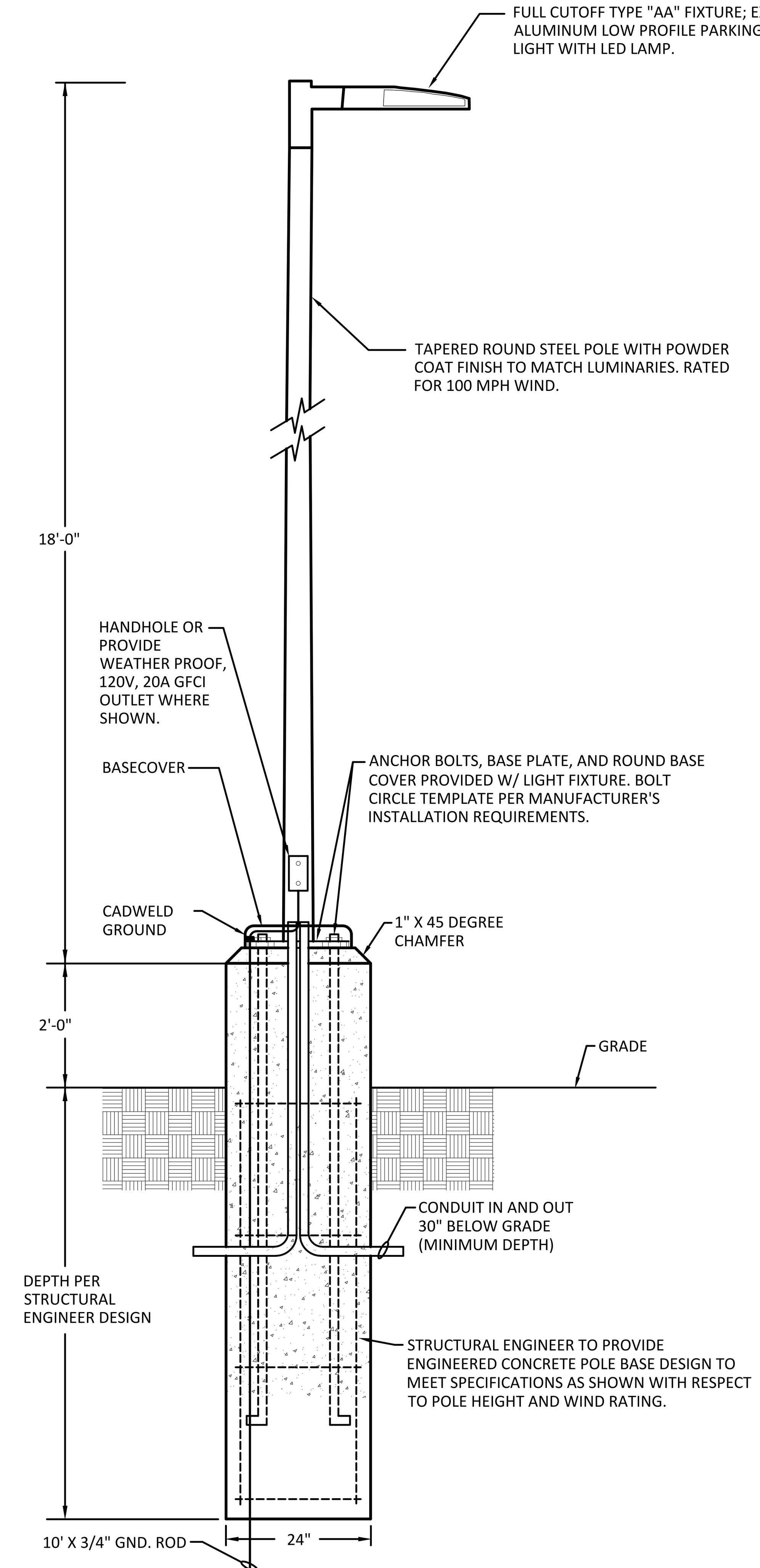
MTG: FLUSH NEMA 1
MFGR: CH/ITE/SQD/GE
TYPE: BOLT-ON

DESCRIPTION	T	KVA	BKR	CKT#	CKT#	BKR	KVA	T	DESCRIPTION
ROOF RECS	R	0.90	20A1P	1	2	20A1P			SPARE
ROOF RECS	R	0.72	20A1P	3	4	20A1P			SPARE
SPARE			20A1P	5	6	20A1P			SPARE
SPARE			20A1P	7	8	20A1P			SPARE
SPARE			20A1P	9	10	20A1P			SPARE
SPARE			20A1P	11	12	20A1P			SPARE
SPARE			20A1P	13	14	20A1P			SPARE
SPARE			20A1P	15	16	20A1P			SPARE
SPARE			20A1P	17	18	20A1P			SPARE
SPARE			20A1P	19	20	20A1P			SPARE
SPARE			20A1P	21	22	20A1P			SPARE
SPARE			20A1P	23	24	20A1P			SPARE
SPARE			20A1P	25	26	20A1P			SPARE
SPARE			20A1P	27	28	20A1P			SPARE
SPARE			20A1P	29	30	20A1P			SPARE
SPARE			20A1P	31	32	20A1P			SPARE
SPARE			20A1P	33	34	20A1P			SPARE
SPARE			20A1P	35	36	20A1P			SPARE
SPARE			20A1P	37	38	20A1P			SPARE
SPARE			20A1P	39	40	20A1P			SPARE
SPARE			20A1P	41	42	20A1P			SPARE
SPARE			20A1P	43	44				SPACE
SPARE			20A1P	45	46				SPACE
SPARE			20A1P	47	48				SPACE
SPARE			20A1P	49	50				SPACE
SPARE			20A1P	51	52				SPACE
SPARE			20A1P	53	54				SPACE
SPARE			20A1P	55	56				SPACE
SPARE			20A1P	57	58				SPACE
SPARE			20A1P	59	60				SPACE
SPARE			20A1P	61	62				SPACE
SPARE			20A1P	63	64				SPACE
SPARE			20A1P	65	66				SPACE
SPARE			20A1P	67	68				SPACE
SPARE			20A1P	69	70				SPACE
SPARE			20A1P	71	72				SPACE
SPARE			20A1P	73	74				SPACE
SPARE			20A1P	75	76				SPACE
SPARE			20A1P	77	78				SPACE
SPARE			20A1P	79	80				SPACE
SPARE			20A1P	81	82				SPACE
SPARE			20A1P	83	84				SPACE

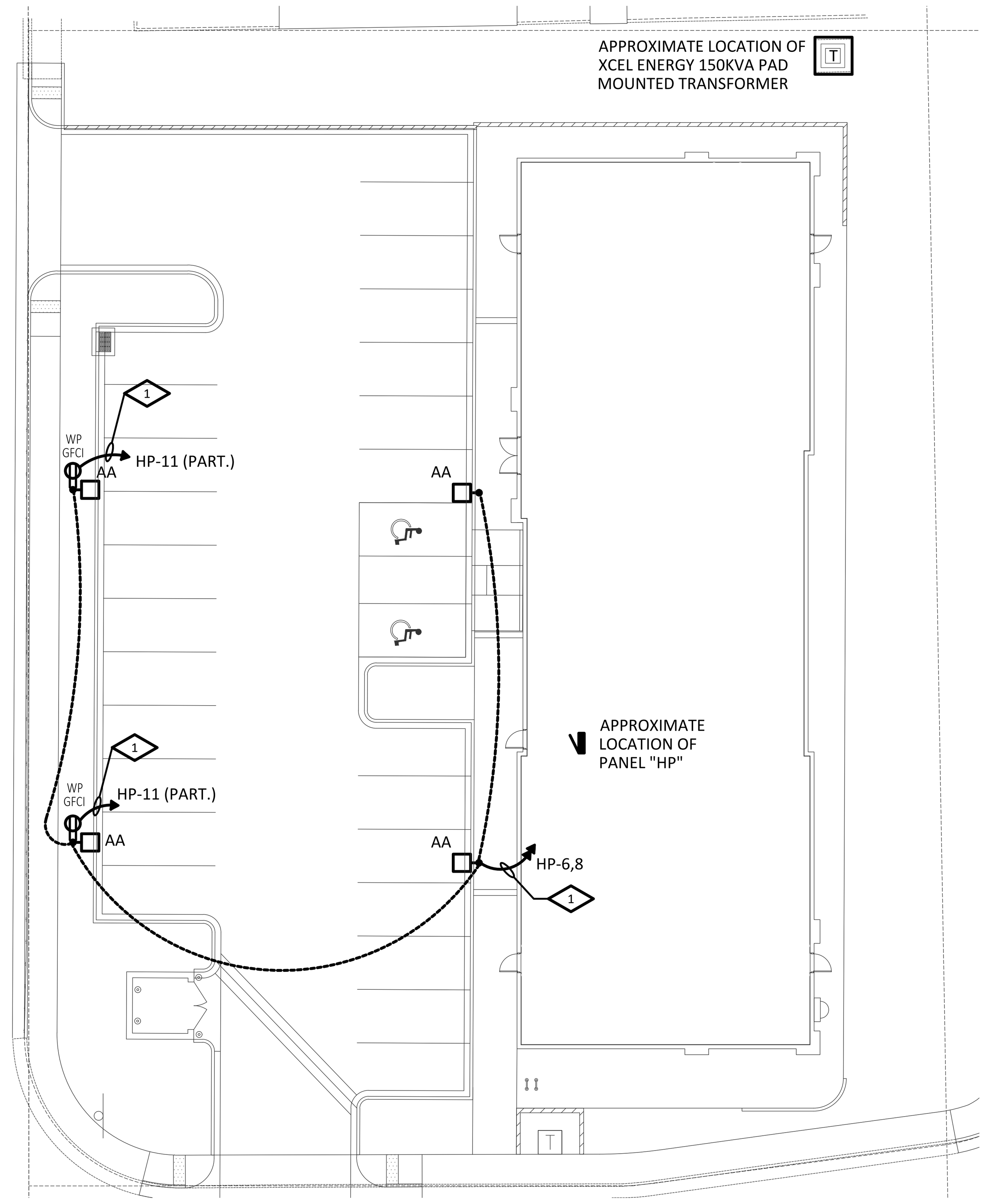
LOAD KVA	REC	TOTAL
CONNECTED	1.6	1.6
NEC DEMAND	1.6	1.6
AMPS		4

PHASE KVA	A = 0.9	B = 0.7	C = 0.0
PHASE IMBALANCE (%)	A/B = 25.0	B/C = 0.0	C/A = 0.0

** PROVIDE SINGLE SECTION 84-CIRCUIT PANEL.



FIXTURE TYPE "AA" POLE BASE DETAIL



NORTH

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

DETAIL NOTES

1 PROVIDE (2 #10 THWN CU & #10 CU GND) 3/4"C. HOME RUN.

Light Fixture Schedule										
Designation	Lamps		Fixture Characteristics	Fixture Mounting				Fixture Specification		
	# of lamps	Lamp Type	Description	Finish	Method	Ceiling Type	Recess Depth	Manufacturer	Catalog #	Voltage
AA	1	166W (21,598 Lumens) LED 5000K	20' Full Cutoff Site Pole Light With Type III Optics	Bronze	Pole Mounted: 18'-0" Pole With 2'-0" Base	N/A	N/A	McGraw Edison	GLEON SA3 C 750 U T3 BZ	208
BB	1	12W (1,180 Lumens) LED 3000K	18" Decorative Exterior Wall Sconce - Full Cut-Off - Dark Sky Compliant	Satin Bronze	Wall @ 8'-6"	N/A	N/A	Lightway	618-LED-F2B-2-A-Z1	120
CCE	1	14W LED 3000K	Full Cut-Off Exterior Egress Light With 90 Minutes of Battery Backup	Carbon Bronze	Above Door	N/A	N/A	Lumark	AXCS1A W BK	120
FE	1	35W (4,718 Lumens) LED 4000K	4' LED Strip Light	White	Surface	N/A	N/A	Metalux	4SNLED-LD5-46SL-LC-UNV-L840-CD1-U-EL14W	120
X	--	LED	Universal Mount LED Exit Sign with 90 Minute Emegency Battery Backup	White/Green	Varies	Varies	N/A	Sure-Lites	LPX70GWH	120

No	Revision / Submissions	Date

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SITE ELECTRICAL PLAN, POLE BASE DETAIL & SCHEDULES

COLORADO REGISTERED VERNON R. WILLIAM 35418 PROFESSIONAL ENGINEER

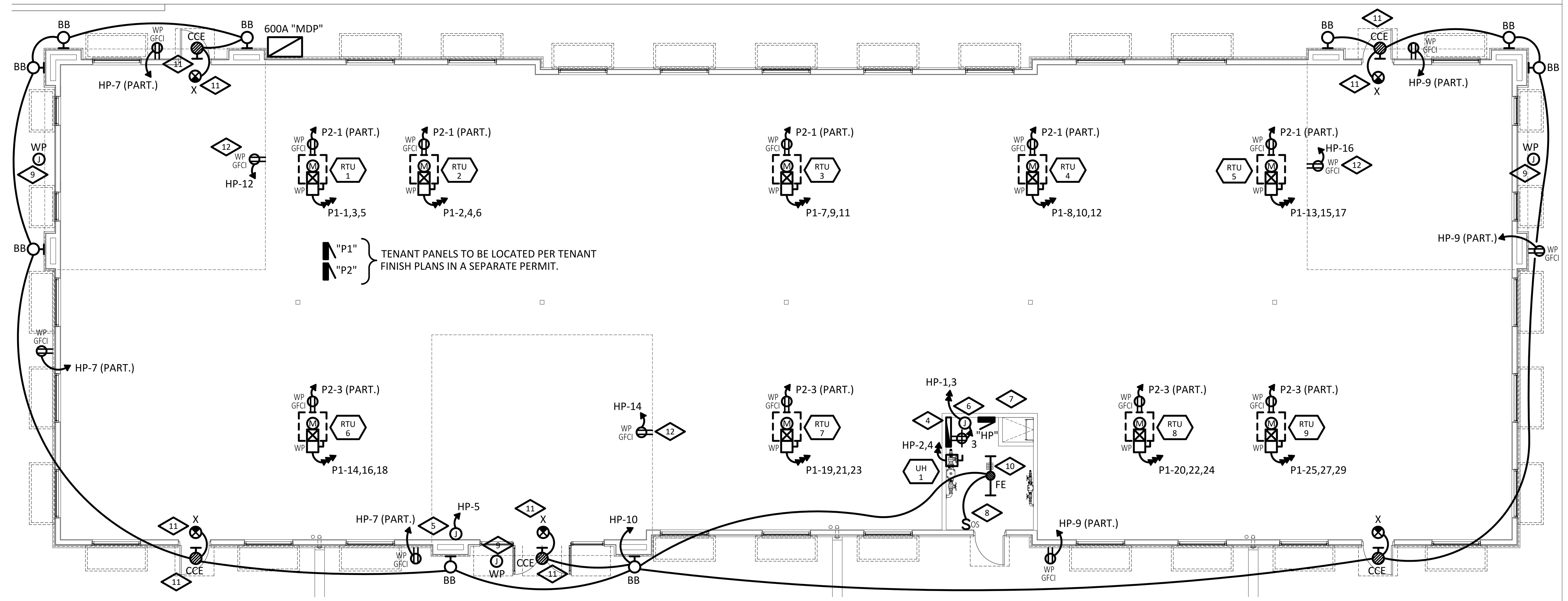
Designed: JH	Project Number: 25-010
Drawn: JH	Scale: As Shown
Checked: VJR	Drawing Number: E1
Reviewed: VRW	
Date: 02/12/2025	1 of 4

SYMBOL LEGEND

Symbol	Description
	Distribution Equipment; Switchgear, Panelboards
	Branch Circuit Panel
	Telephone Terminal
T	Transformer
	Fused Disconnect Switch (Non-Fused When Fusing Not Required)
	Combination Starter/Disconnect Sw.
	Magnetic Starter or Contactor
M	Meter
	Motor Outlet and Connection
	Fused Disconnect Sw., Diagrammatic
	Circuit Breaker, Diagrammatic
	Indicates Detail Note
	Indicates Mechanical Equipment
	Indicates Kitchen Equipment, Riser, or Room Number
	Circuit Run; In Walls and Above Ceiling (Concealed)
	Circuit Run; Underground or in Floor
	Circuit Run; Exposed
	Circuit Risers; Up,Down
	Home Run; Arrows Indicate Number of Circuits
	Overhead Service Entrance
	Letter Indicates Fixture Type, See Schedule for Description
	Lower Case Subscript Indicates Switching
	Shading Indicates Connection to Emergency, Egress, or Night-Light Circuit
	Fixtures Surface Mounted on Ceiling
	Fixtures Recessed in Ceiling
	Wall Mounted Fixtures
	Exit Lights; Mounting Faces and Arrows as Indicated
	Porcelain Keyless Lampholder with 100W A19 Lamp; PC Indicates Pull Chain
	Duplex Receptacle; Wall
	Double Duplex Receptacle
	Switched Receptacle; Half, Full
IG	Isolated Ground Receptacle
AC	Above Counter Receptacle; +4" Above Top Of Backsplash
WP	Weatherproof Duplex Receptacle
GFI	Ground Fault Interrupt Duplex Receptacle
AG	Ground Fault Interrupt Duplex Receptacle; Above Counter
TR	Tamper Resistant Duplex Receptacle
	Ceiling Mtd. Duplex Receptacle
	Special Configuration Receptacle
	Duplex Receptacle; Floor
	Recessed Clock Style Receptacle
	Junction Box; Wall
	Junction Box; Ceiling
	Telephone Outlet; Wall
	Computer Data Outlet; Wall
	Combination Telephone & Computer Data Outlet; Wall
	Telephone Outlet; Floor
	Special Configuration Combination Floor Outlet/Box
	T.V. Outlet
S^a	Single Pole Switch; Subscripts Indicate Switching
S^2	Double Pole Switch
$S^3 S^4$	Three and Four Way Switching
S^P	Switch with Pilot Light
S^K	Key Operated Switch
S^{LV}	Low Voltage Switch
S^{OS}	Occupancy Sensor Switch
OS	Ceiling Mounted Occupancy Sensor
	Gang Mounted Switching
	Combination Switch and Duplex Receptacle
S^{TO}	Thermal Overload Switch
D	Dimmer Switch
TC	Time Clock
	Photo Cell
	Hood Outlet and Connection
	Disposer Receptacle and Connection
	Surface Raceway
	Pushbutton Stations
	Tele-Power Pole

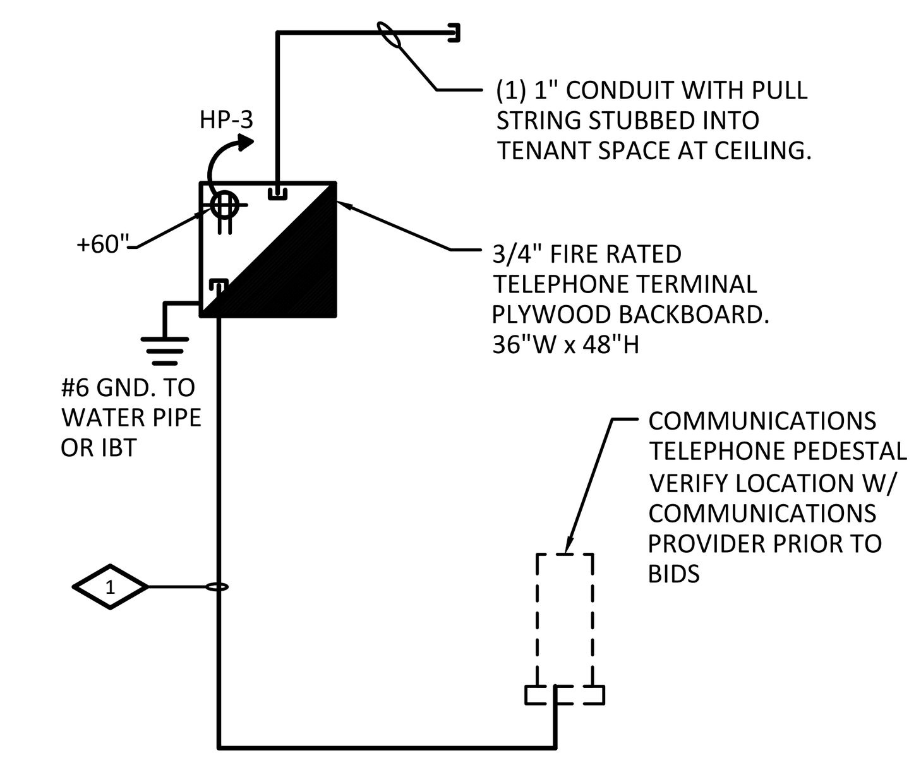
DETAIL NOTES

1. (1) 4" CONDUIT WITH PULL ROPE RUN TO TELEPHONE PEDESTAL. VERIFY EXACT LOCATION OF TELEPHONE PEDESTAL PRIOR TO BID. 36" MINIMUM RADIUS SWEEPS. COORDINATE MAXIMUM LENGTHS AND PULL BOX REQUIREMENTS WITH PROVIDER PRIOR TO BIDS.
2. 6-POLE MECHANICALLY HELD CONTACTOR IN NEMA-1 ENCLOSURE, TORK MODEL DGUM-200A (2-CHANNEL) AND TORK ROOF MOUNTED PHOTOCELL MODEL #EPC1. MOUNT PHOTOCELL ON ROOF AND FACE NORTH. LOCATE TIMECLOCK AS CLOSE AS POSSIBLE TO PANEL.
3. PROVIDE INTERSYSTEM BONDING TERMINATION (IBT) DEVICE PER 2015 NEC 250.94. IBT IS TO BE ACCESSIBLE FOR CONNECTION AND INSPECTION, SHALL CONSIST OF A SET OF TERMINALS WITH THE CAPACITY FOR CONNECTION OF NOT LESS THAN (3) INTERSYSTEM BONDING CONDUCTORS AND NOT INTERFERE WITH OPENING THE ENCLOSURE FOR A SERVICE, BUILDING OR STRUCTURE DISCONNECTING MEANS, OR METERING EQUIPMENT. CONNECT VIA #6 AWG CU CONDUCTOR TO NEUTRAL-GROUND CONNECTION IN MAIN DISCONNECT.
4. BUILDING MAIN TELEPHONE BOARD; REFER TO TELEPHONE RISER DETAIL ON THIS SHEET FOR ADDITIONAL INFORMATION. COORDINATE FINAL LOCATION WITH TENANT FINISH PLANS.
5. PROVIDE 120V CONNECTION FOR FIRE ALARM PANEL; COORDINATE EXACT LOCATION IN FIELD.
6. PROVIDE 120-VOLT, 20-AMP CONNECTION FOR IRRIGATION CONTROLLER. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO INSTALLATION.
7. COORDINATE FINAL LOCATION OF PANEL "HP" WITH ARCHITECT PRIOR TO ROUGH-IN.
8. PROVIDE DUAL TECHNOLOGY WALL MOUNTED OCCUPANCY SENSOR FOR CONTROL OF FIXURES IN THE ROOM; WATTSTOPPER DW-100 OR EQUAL, (TYPICAL THIS SYMBOL).
9. PROVIDE WEATHERPROOF JUNCTION BOX ON EXTERIOR OF BUILDING FOR FUTURE TENANT SIGNAGE. SIGN TO BE POWERED FROM TENANTS PANEL. COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
10. EMERGENCY BATTERY PACK TO OPERATE ONLY UNDER POWER OUTAGE. FIXTURE TO OPERATE NORMALLY UNDER NORMAL CONDITIONS, (NOT A NIGHT LIGHT). RUN SWITCHED AND UNSWITCHED POWER TO BATTERY PACK.
11. CONNECT ALL SHADED FIXTURES AHEAD OF SWITCHING FOR CONTINUOUS EGRESS & NIGHTLIGHT FUNCTIONS, (TYPICAL).
12. LOCATE 120V, 20A, WP, GFCI RECEPTACLE ON HIGH TOWER ROOF; COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.



NORTH

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



TELEPHONE RISER

PANEL "HP"

VOLTS: 208/120V,3PH,4W
MAINS: 100A M.L.O.
A.I.C.: 10KA

MTG: SURFACE NEMA 1
MFGR: CH/ITE/SQD/GE
TYPE: BOLT-ON

	DESCRIPTION	T	KVA	BKR	CKT#	CKT#	BKR	KVA	T	DESCRIPTION
	IRRIGATION CNTRL	R	0.18	20A1P	1	2	20A	1.50	H	UH-1
	TTB	R	0.36	20A1P	3	4	2P	1.50	H	-
**	FACP	R	0.18	20A1P	5	6	20A	0.33	L	PARKING LOT LTG
	BUILDING RECS	R	0.54	20A1P	7	8	2P	0.33	L	-
	BUILDING RECS	R	0.54	20A1P	9	10	20A1P	0.20	L	EXTERIOR BLDG LTG
	EXTERIOR POLE RECS	R	0.36	20A1P	11	12	20A1P	0.18	R	HIGH TOWER ROOF RC
	SPARE			20A1P	13	14	20A1P	0.18	R	HIGH TOWER ROOF RC
	SPARE			20A1P	15	16	20A1P	0.18	R	HIGH TOWER ROOF RC
	SPARE			20A1P	17	18	20A1P			SPARE
	SPACE				19	20				SPACE
	SPACE				21	22				SPACE
	SPACE				23	24				SPACE
	SPACE				25	26				SPACE
	SPACE				27	28				SPACE
	SPACE				29	30				SPACE

LOAD KVA	LTG	REC	HTR	TOTAL
CONNECTED	0.9	2.7	3.0	6.6
NEC DEMAND	1.1	2.7	3.0	6.8
AMPS				19

PHASE KVA	A = 2.7	B = 2.8	C = 1.1
PHASE IMBALANCE (%)	A/B = 1.6	B/C = 163.9	C/A = 159.7

** PROVIDE LOCKABLE BREAKER FOR FACP.

Isc CALCULATIONS - THREE PHASE

POINT #1, AT THE NEW 150KVA TRANSFORMER (ASSUMED);

Isc 26,000 A

POINT #2, AT THE NEW 600A "MDP";

f = 1.73 x Length x Isc (source) / L-L Volts x Wire Factor
f = 1.73 x 50 x 26000 A / 208 x 42782
f = 0.25

M = 1 / 1+f = 1 / 1 + 0.25 = 0.80

Isc = M x Isc (source) = 0.80 x 26000 A = 20,755 A

POINT #3, AT THE NEW PANEL "HP";

f = 1.73 x Length x Isc (source) / L-L Volts x Wire Factor
f = 1.73 x 100 x 20755 A / 208 x 2425
f = 7.12

M = 1 / 1+f = 1 / 1 + 7.12 = 0.12

Isc = M x Isc (source) = 0.12 x 20755 A = 2,556 A

POINT #4, AT THE NEW PANEL "P1";

f = 1.73 x Length x Isc (source) / L-L Volts x Wire Factor
f = 1.73 x 25 x 20755 A / 208 x 37512
f = 0.12

M = 1 / 1+f = 1 / 1 + 0.12 = 0.90

Isc = M x Isc (source) = 0.90 x 20755 A = 18,613 A

POINT #5, AT THE NEW PANEL "P2";

f = 1.73 x Length x Isc (source) / L-L Volts x Wire Factor
f = 1.73 x 5 x 18613 A / 208 x 12122
f = 0.06

M = 1 / 1+f = 1 / 1 + 0.06 = 0.94

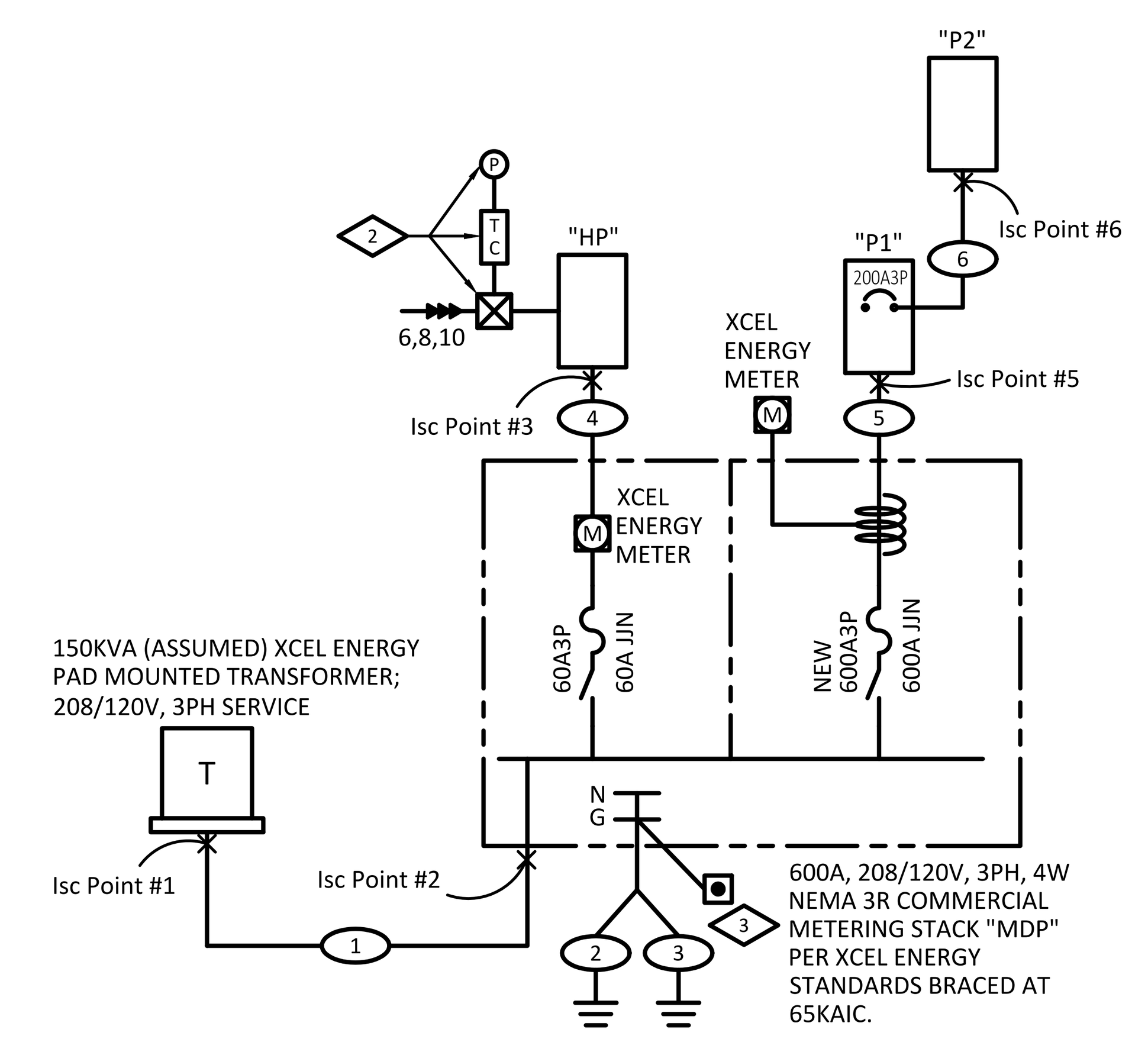
Isc = M x Isc (source) = 0.94 x 18613 A = 17,496 A

600A SERVICE LOAD SUMMARY **

LOAD KVA	LTG	REC	MTR	HTR	TOTAL
CONNECTED	0.9	4.3	73.9	3.0	82.1
NEC DEMAND	1.1	4.3	76.5	3.0	84.9
AMPS					236

PHASE KVA	A = 28.3	B = 28.1	C = 25.7
PHASE IMBALANCE (%)	A/B = 0.5	B/C = 9.5	C/A = 10.0

** LOAD SUMMARY INCLUDES PANELS "HP", "P1" AND "P2".



ONE-LINE DIAGRAM

NO SCALE
NOTE: ALL ITEMS ARE NEW

FEEDER SCHEDULE

1. 2 SETS OF (4-500 KCMIL XHHW AL) 4"C.
2. #2/0 CU GND TO BLDG STEEL, UFER & COLD WATER PIPE
3. #6 CU TO 5/8" X 8' CLAD STEEL GROUND ROD
4. (4 #6 THWN CU & #10 CU GND) 1"C.
5. 2 SETS OF (4-500 KCMIL XHHW AL & #2/0 AL GND) 3"C.
6. (4-250 KCMIL XHHW AL & #4 AL GND) 2-1/2"C.

No	Revision / Submissions	Date

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SYMBOLS, ONE-LINE, ELECTRICAL PLAN, SCHEDULES & ISC CALCS

COLORADO REGISTERED VERNON R. WILSON 35418 PROFESSIONAL ENGINEER

Designed: JH	Project Number: 25-010
Drawn: JH	Scale: As Shown
Checked: VJR	Drawing Number: E2
Reviewed: VRW	
Date: 02/12/2025	2 of 4

SECTION 26000

ELECTRICAL SYSTEMS

PART 1 - GENERAL 1.01 CONDITIONS AND REQUIREMENTS
A. REFER TO THE GENERAL CONDITIONS, SUPPLEMENTARY GENERAL CONDITIONS, AND DIVISION 1 - GENERAL REQUIREMENTS.
B. PROVISIONS OF THIS SECTION SHALL APPLY TO ALL OF DIVISION 16 WORK.

1.02 SCOPE OF WORK
A. FURNISH AND INSTALL ALL MATERIALS AND EQUIPMENT, AND PROVIDE ALL LABOR REQUIRED AND NECESSARY TO COMPLETE THE WORK SHOWN ON THE DRAWINGS AND/OR AS SPECIFIED IN DIVISION 16, AND ALL OTHER WORK AND MISCELLANEOUS ITEMS, NOT SPECIFICALLY MENTIONED, BUT REASONABLY INFERRED FOR A COMPLETE INSTALLATION INCLUDING ALL ACCESSORIES AND APPURTENANCES REQUIRED FOR OPERATING AND TESTING THE SYSTEM. IT IS THE INTENT OF THE DRAWINGS AND SPECIFICATIONS THAT ALL SYSTEMS BE COMPLETE AND READY FOR OPERATION.

1.03 CODES, REGULATIONS, AND STANDARDS
A. ALL WORK SHALL BE IN STRICT ACCORDANCE WITH LOCAL BUILDING CODES, GOVERNING LAWS, ORDINANCES AND REGULATIONS, 2017 NATIONAL ELECTRICAL CODE, INTERNATIONAL BUILDING CODE, AND RULES AND REGULATIONS OF THE LOCAL POWER COMPANY.

1.04 MATERIAL STANDARDS
A. ALL MATERIAL SUPPLIED SHALL BE NEW AND SHALL BE EQUAL TO OR EXCEED MINIMUM REQUIREMENTS OF NEMA, IEEE, AND/OR UL.
B. ALL MATERIALS SHALL BEAR THE UNDERWRITERS' LABORATORIES, INC., LABEL PROVIDED A STANDARD HAS BEEN ESTABLISHED FOR THE MATERIAL IN QUESTION.

1.05 PERMITS AND FEES
A. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL LOCAL FEES, PERMITS, AND SERVICES OF INSPECTION AUTHORITIES REQUIRED BY WORK HEREUNDER. THE CONTRACTOR SHALL COORDINATE FULLY WITH THE LOCAL UTILITY COMPANIES WITH RESPECT TO THEIR SERVICES.

1.06 CONSTRUCTION DRAWINGS
A. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF ELECTRICAL WORK. LOCATIONS ARE APPROXIMATE AND SHALL BE SUBJECT TO MINOR MODIFICATIONS AS DICTATED BY FIELD CONDITIONS AND AS DIRECTED BY ARCHITECT AND/OR ENGINEER.

1.07 COORDINATION OF WORK
A. CONTRACTOR SHALL BE RESPONSIBLE FOR EXACT FITTING OF ALL MATERIALS, EQUIPMENT, ETC., IN BUILDING. ALL DIMENSIONS SHALL BE VERIFIED ON JOB.

1.08 SPECIFIED ITEMS AND BID ALTERNATES
A. EQUIPMENT OR MATERIALS SPECIFIED EXCLUSIVELY BY TRADE, NAME OF MANUFACTURER, OR BY CATALOG REFERENCE SHALL FORM BASIS OF WORK AND CONTRACT THEREFORE.
B. CONTRACTORS DESIRING TO USE ALTERNATE EQUIPMENT OR MATERIALS; MANUFACTURERS OR SUPPLIERS DESIRING TO FURNISH ALTERNATE MATERIALS OR EQUIPMENT IN LIEU OF THOSE SPECIFIED; SHALL SUBMIT REQUESTS FOR APPROVAL OF ALTERNATES TO ARCHITECT NOT LESS THAN SEVEN CALENDAR DAYS PRIOR TO SCHEDULED CLOSING DATE FOR RECEIPT OF BIDS OR PROPOSALS.
C. REQUESTS FOR APPROVAL OF PROPOSED ALTERNATES SHALL BE MADE IN WRITING AND SHALL INCLUDE COMPLETE DATA SHEETS, CATALOG CUTS, SAMPLES, AND APPROPRIATE CALCULATIONS.
D. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER INSTALLATION, COMPLETE IN ALL RESPECTS, AND OPERATION OF ALL EQUIPMENT OR MATERIALS USED AS RESULT OF APPROVAL OF REQUESTS TO SUBSTITUTE. NO ADDITIONAL PAYMENT WILL BE ISSUED DUE TO THE INCORPORATION OF APPROVED SUBSTITUTIONS.

1.09 SHOP DRAWINGS
A. FURNISH SIX COPIES OF SHOP DRAWINGS AND MATERIAL LISTS, AS HEREIN CALLED FOR, TO ARCHITECT PRIOR TO COMMENCEMENT OF WORK. MATERIAL LISTS SHALL INCLUDE CATALOG CUTS, DIAGRAMS AND OTHER DESCRIPTIVE MATERIAL, AND SHALL BE SUBMITTED AT THE SAME TIME IN BROCHURE ARRANGEMENT WITH ONE OF EACH REQUESTED ITEM IN EACH OF THE SIX BROCHURES. SHOP DRAWINGS SHALL BE SUBMITTED FOR THE FOLLOWING:
1. PANELBOARDS
2. DISCONNECT SWITCHES
3. LIGHTING FIXTURES
B. THE CONTRACTOR SHALL REVISE AND RESUBMIT SHOP DRAWINGS AND MATERIAL LISTS AS REQUIRED FOR APPROVAL.

1.10 OPERATION AND MAINTENANCE MANUALS
A. PROVIDE TWO COPIES OF OPERATING AND MAINTENANCE MANUALS FOR ALL EQUIPMENT AND/OR SYSTEMS.

1.11 GUARANTEE
A. THE CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND EQUIPMENT FURNISHED AND INSTALLED HEREUNDER AGAINST ALL DEFECTS AND FAULTY INSTALLATION FOR A PERIOD OF 365 CALENDAR DAYS FROM DATE OF FINAL ACCEPTANCE OF WORK BY OWNER.

1.12 AS-BUILT DOCUMENTS
A. THE CONTRACTOR SHALL MAINTAIN ON THE JOB AN UP-TO-DATE SET OF WORKING DRAWINGS AND SPECIFICATIONS, MARKED UP TO SHOW ELECTRICAL SYSTEMS AS INSTALLED. THESE DRAWINGS AND SPECIFICATIONS SHALL BE AVAILABLE FOR INSPECTION BY THE ARCHITECT OR THEIR REPRESENTATIVE.
B. UPON COMPLETION OF THE WORK, THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE OWNER WITH ONE SET OF AS-BUILT DRAWINGS AND MARKED UP SPECIFICATIONS, CERTIFIED ACCURATE BY ENDORSEMENT.

1.13 SITE EXAMINATION
A. THE ELECTRICAL CONTRACTOR SHALL EXAMINE PROJECT SITE AND ALL CONDITIONS THEREON AND SHALL TAKE INTO CONSIDERATION ALL SUCH CONDITIONS AS MAY AFFECT THE WORK HEREUNDER.

1.14 TEMPORARY POWER
A. PROVIDE TEMPORARY POWER AND LIGHTING FOR CONSTRUCTION IN ACCORDANCE WITH STATE AND LOCAL SAFETY LAWS AND IN PARTICULAR FEDERAL OSHA REQUIREMENTS AND THE NATIONAL ELECTRICAL CODE.

1.15 SLEEVES, INSERTS, AND EMBEDDED ITEMS
A. SLEEVES, INSERTS, HANGERS, ETC., FURNISHED UNDER THIS DIVISION AND INSTALLED UNDER ANOTHER DIVISION SHALL BE SUPPLIED IN SUCH MANNER AS WILL PERMIT ORDERLY PROGRESS OF WORK BY OTHERS.

1.16 CUTTING AND PATCHING
A. THE ELECTRICAL CONTRACTOR SHALL CUT, CHANNEL, CHASE, AND/OR DRILL FLOORS, WALLS, PARTITIONS, CEILINGS, OR OTHER SURFACES AS REQUIRED FOR INSTALLATION, SUPPORT, ANCHORAGE, ETC., OF THE WORK. ALL PATCHING SHALL BE DONE BY THE GENERAL CONTRACTOR.

1.17 DELIVERY AND STORAGE
A. ELECTRICAL CONTRACTOR SHALL MAKE PROVISIONS FOR DELIVERY AND SAFE STORAGE OF MATERIALS FOR THIS CONTRACT AND SHALL ASSUME FULL RESPONSIBILITY FOR CONDITION AND/OR SAFEKEEPING OF MATERIALS FURNISHED BY OTHERS ON ACCEPTANCE OF MATERIALS.

1.18 INSPECTIONS AND TESTS
A. WORK SHALL BE SUBJECT TO INSPECTION BY ARCHITECT AND/OR ENGINEER AT ALL TIMES.
B. AFTER ELECTRICAL INSTALLATION IS COMPLETED AND AT SUCH TIME AS THE ARCHITECT OR ENGINEER MAY DIRECT, THE CONTRACTOR SHALL CONDUCT AN OPERATING TEST FOR APPROVAL. INSTALLATION SHALL BE DEMONSTRATED TO BE IN ACCORDANCE WITH REQUIREMENTS OF THE DRAWINGS AND THIS SPECIFICATION. ANY DEFECTS REVEALED SHALL BE CORRECTED PROMPTLY AND THE TESTS RECONDUCTED.
C. THE CONTRACTOR SHALL REPAIR AND/OR REPLACE ALL DEFECTIVE AND/OR FAULTY WORKMANSHIP, MATERIALS, AND/OR EQUIPMENT AND SHALL REPAIR AND/OR REPLACE ALL OTHER WORK DAMAGED AS A RESULT OF SUCH DEFECTIVE AND/OR FAULTY INSTALLATION, MATERIALS AND/OR EQUIPMENT WITHOUT CHARGE TO OWNER DURING GUARANTEE PERIOD.
D. PARTIAL OCCUPANCY OF SITE BY OWNER SHALL NOT BE CONSTRUED AS FINAL ACCEPTANCE OF WORK.

PART 2 - PRODUCTS 2.01 BRANCH CIRCUIT PANELS
A. CIRCUIT BREAKER TYPE PANELBOARDS WITH MAIN LUGS OR MAIN CIRCUIT BREAKERS WHERE SHOWN, WITH NUMBER AND SIZE OF FULL WIDTH THERMAL MAGNETIC BOLTED BRANCH CIRCUIT BREAKERS WITH MINIMUM AIC RATING AS INDICATED. CIRCUIT BREAKERS SHALL BE LABELED FOR USE WITH CONDUCTORS WITH MINIMUM OF 75° INSULATION. PANELBOARDS ARE TO BE SURFACE OR FLUSH MOUNTED WITH SIZE OF BUS AS INDICATED. TWO AND THREE POLE BREAKERS SHALL HAVE COMMON TRIP AND SINGLE OPERATING HANDLE. PROVIDE SEPARATE GROUND BUS IN EACH PANELBOARD.
B. PANELBOARDS SHALL BE CONSTRUCTED OF CODE GAUGE GALVANIZED STEEL. FRONTS ARE TO BE COMPLETE WITH DOOR IN DOOR, LATCH AND MASTER-KEYED LOCKS. FRONTS SHALL HAVE ADJUSTABLE TRIM CLAMPS AND DIRECTORY FRAMES.
C. LIGHTING AND MISCELLANEOUS POWER PANELS: 208V OR 240V, 3 PHASE 208/120V, SINGLE OR 3 PHASE 240/120V, SINGLE PHASE 10,000 AIC MINIMUM CUTLER-HAMMER TYPE PRL1 OR EQUIVALENT BY SQUARE D OR SIEMENS.

2.02 DISCONNECT SWITCHES
A. MAIN DISCONNECT SWITCHES RATED 800 AMPERES AND ABOVE SHALL BE BOLTED PRESSURE CONTACT TYPE, CUTLER-HAMMER OR EQUAL BY SQUARE D OR SIEMENS.
B. PROVIDE ENCLOSED, HEAVY DUTY, FUSIBLE OR NON-FUSIBLE SAFETY SWITCHES WHERE REQUIRED.
C. EACH ENCLOSURE SHALL BE NEMA TYPE SUITABLE FOR THE SURROUNDING AREA AND CONDITIONS, AND SHALL BE LABELED FOR USE WITH CONDUCTORS HAVING MINIMUM OF 75° INSULATION. CONSULT MECHANICAL DRAWINGS AND SPECIFICATIONS OF MECHANICAL EQUIPMENT. DISCONNECTS AS APPROPRIATE FOR ACTUAL EQUIPMENT PROVIDED TO THE PROJECT. ALL SWITCHES SHALL BE LABELED FOR FEEDER OR MOTOR SUPPLIED.
D. PROVIDE FUSE REJECTION KITS FOR ALL FUSIBLE SWITCHES RATED 600 AMPERES AND BELOW.

2.03 FUSES
A. FUSES SHALL BE OF THE TIME DELAY TYPE; CLASS "R" WITH REJECTION FEATURE UP TO 600 AMPERES, BOLT-IN CLASS "L" ABOVE 600 AMPERES. "FUSETRON", "LOW PEAK", OR "HI-CAP" AS MANUFACTURED BY THE BUSSMAN MANUFACTURING COOMPANY OR EQUIVALENT BY GOULD, INC. (GOULD SHAWMUTT FUSES). THE CONTRACTOR SHALL FURNISH AND INSTALL ONE COMPLETE SET OF FUSES FOR ALL FUSE HOLDING DEVICES SIZED IN ACCORDANCE WITH THE ASSOCIATED MOTOR AND/OR CONDUCTORS TO BE PROTECTED. FURNISH TO OWNER A MINIMUM OF THREE SPARES FOR EACH SIZE INSTALLED. PROVIDE A SPARE FUSE CABINET MOUNTED IN MAIN ELECTRICAL ROOM FOR FUSE STORAGE. PROVIDE A NAMEPLATE ON THE CABINET WHICH READS "SPARE FUSES".

2.04 CONDUIT AND FITTINGS
A. PROVIDE CONDUIT AND FITTINGS AS INDICATED AND AS REQUIRED PER PART 3 - INSTALLATION OF THIS SPECIFICATION.
B. GALVANIZED RIGID STEEL CONDUIT (GRC): ZINC COATED, THREADED TYPE CONFORMING TO UL 6. PROVIDE ZINC COATING FUSED TO INSIDE AND OUTSIDE WALLS. PROVIDE CLOSED-END THREAD PROTECTORS.
C. INTERMEDIATE METALLIC TUBING (IMC): ZINC COATED THREADED TYPE CONFORMING TO UL PROVIDE ZINC COATING FUSED TO INSIDE AND OUTSIDE WALLS. PROVIDE CLOSED-END THREAD PROTECTORS.
D. ELECTRIC METALLIC TUBING (EMT): COMPLY WITH UL 794.
E. PVC EXTERNALLY COATED RIGID STEEL CONDUIT (PVC COATED GRC): PROVIDE RIGID STEEL ZINC COATED WITH AN ADDITIONAL 40 MIL. THICK COATING OF PVC AND INTERNAL GALVANIZED SURFACE. PVC COATING SHALL BE BONDED TO THE CONDUIT. EXTRUDED EXTERIOR COATING IS NOT ACCEPTABLE.
F. FLEXIBLE STEEL CONDUIT: FORMED FROM CONTINUOUS LENGTH OF SPIRALLY-WOUND, INTERLOCKED ZINC-COATED STRIP STEEL.
G. LIQUID-TIGHT, FLEXIBLE METAL CONDUIT: FORMED FROM A CONTINUOUS LENGTH OF FLEXIBLE, INTERLOCKED, AND DOUBLE-WRAPPED STEEL; GALVANIZED INSIDE AND OUTSIDE; COATED WITH LIQUID-TIGHT JACKET OF FLEXIBLE POLYVINYL CHLORIDE (PVC).
H. RIGID METAL CONDUIT FITTINGS: CAST-MALLEABLE IRON, GALVANIZED.
I. INTERMEDIATE METALLIC TUBING FITTINGS:
J. ELECTRIC METALLIC TUBING FITTINGS: STEEL OR IRON, COMPRESSION (SET SCREW).
K. FLEXIBLE METALLIC CONDUIT FITTINGS: STEEL THREADLESS HINGED CLAMP TYPE.
L. FLEXIBLE NON-METALLIC CONDUIT FITTINGS: PLASTIC
M. CONDUIT BODIES: GALVANIZED STEEL CONDUIT BODIES OF TYPES, SHAPES, AND SIZES AS REQUIRED TO FULFILL JOB REQUIREMENTS AND NEC REQUIREMENTS. CONDUIT BODIES SHALL HAVE THREADED CONDUIT ENTRANCE ENDS, REMOVABLE COVERS, EITHER CAST OR GALVANIZED STEEL, AND CORROSION-RESISTANT SCREWS.

2.06 CONDUCTORS
A. UNLESS OTHERWISE INDICATED, ALL CONDUCTORS SHALL BE COPPER. THE USE OF ALUMINUM WILL BE ACCEPTED ONLY TO THE EXTENT SPECIFICALLY INDICATED ON THE DRAWINGS. CONDUCTORS SIZED #10 AWG AND SMALLER SHALL BE SOLID ANNEALED COPPER, #8 AWG AND LARGER SHALL BE STRANDED.
B. MINIMUM CONDUCTOR SIZES SHALL BE #12 AWG FOR WIRING AT 120 VOLTS AND ABOVE, AND #18 AWG FOR SIGNAL AND CONTROL CIRCUITS. FOR 120 VOLT CIRCUITS 75 FEET OR LONGER TO THE FIRST OUTLET, MINIMUM SIZE SHALL BE INCREASED TO #10 AWG (FOR 277 VOLT CIRCUITS 150 FEET).
C. CONDUCTORS SHALL HAVE INSULATION RATED AT 600 VOLTS UNLESS OTHERWISE NOTED. THE FOLLOWING INSULATION STANDARDS SHALL APPLY:
1. UNDERGROUND AND WET LOCATIONS: TYPE THW OR THWN FOR #8 AWG AND LARGER; TW OR THWN FOR #10 AWG AND SMALLER.
2. INDOORS: TYPE THW, THWN, OR THHN FOR #8 AWG AND LARGER; TW, THWN, OR THHN FOR #10 AWG AND SMALLER.
3. AMPACITIES: CONDUCTOR AMPACITIES SHALL BE APPLIED PER NEC TABLE 310-16. RATINGS FOR CONDUCTORS HAVING 75°C INSULATION SHALL NOT BE EXCEEDED REGARDLESS OF WHICH INSULATION TYPE IS USED.
D. CONNECTORS SHALL BE 3-M "SCOTCHLOCK", BUCHANAN "B-CAPS", IDEAL "WING NUT", OR BUCHANAN SPLICE CAPS. ALL CONNECTORS SHALL BE RATED AT 600 VOLTS FOR GENERAL USE, OR 1000 VOLTS FOR USE WITHIN FLUORESCENT OR HIGH INTENSITY DISCHARGE (HID) LIGHTING FIXTURES.

2.07 CABINETS AND WIREWAYS
A. CODE GAUGE GALVANIZED STEEL. CABINETS TO HAVE HINGED COVERS AND MASTER KEYED LOCKS. PROVIDE CABINET SIZES AS INDICATED, AND WIREWAY SIZED FOR APPLICATION PER NEC ARTICLE 362. PROVIDE APPROVED NEMA TYPE ENCLOSURE SUITABLE FOR LOCATION AND CONDITIONS ENCOUNTERED. FINISH SHALL BE ANSI 61 GRAY ENAMEL.

2.08 OUTLET BOXES
A. CAST METAL BOXES FOR EXPOSED CONDUIT AND IN EQUIPMENT ROOMS. ALL OUTLETS FOR EXTERIOR APPLICATION SHALL BE CAST, WEATHERPROOF TYPE, WITH GASKET AND CAST COVER PLATE. PROVIDE GALVANIZED OR ZINC COATED, COMPRESSED STEEL OUTLET BOXES FOR ALL OTHER APPLICATIONS. BOXES TO BE 4 INCHES SQUARE OR OCTAGONAL UNLESS OTHERWISE REQUIRED FOR SPECIFIC OUTLET OR STRUCTURAL CONDITIONS, AND OF DEPTH AS REQUIRED.

2.09 WIRING DEVICES
A. PROVIDE SPECIFICATION GRADE DEVICES IN ALL AREAS. HUBBELL, LEVITON, BRYANT, OR PASS AND SEYMOUR. ALL DEVICES SHALL BE OF THE SAME MANUFACTURER.
B. SWITCHES SHALL BE RATED FOR THE LOAD CONTROLLED. SWITCHES SHALL BE LEVITON #1201 (15 AMP) OR #1221 (20 AMP) OR EQUAL. ALL OTHER SWITCHES SHALL BE OF SIMILAR PREMIUM SPECIFICATION GRADE QUALITY.
C. THERMAL OVERLOAD SWITCHES SHALL BE PROPERLY SIZED OVERLOAD HEATER ELEMENTS.
D. RECEPTACLES SHALL BE RATED FOR THE CIRCUIT LOAD SERVED. RECEPTACLES SHALL BE LEVITON #5252 (15 AMP) OR #5352 (20 AMP) OR EQUAL. ALL OTHER RECEPTACLES SHALL BE OF SIMILAR PREMIUM SPECIFICATION GRADE QUALITY.
E. PROVIDE STAINLESS STEEL COVERPLATES FOR ALL DEVICES IN KITCHEN AREAS AND AREAS WITH SURFACE MOUNTED RACEWAY AND BOXES. PROVIDE 0.140 INCH SMOOTH NYLON MATCHING COVERPLATES FOR ALL OTHER SWITCHES, RECEPTACLES, TELEPHONE, JUNCTION, AND UNUSED OUTLETS. DEVICE AND PLATE COLORS SHALL BE WHITE OR LIGHT COLOR ON LIGHT FINISHED SURFACES, AND BLACK, BROWN, OR OTHER DARK COLOR ON DARK FINISHED SURFACES. VERIFY COLOR OF DEVICES AND COVERPLATES WITH ARCHITECT BEFORE ORDERING.

2.10 LIGHTING FIXTURES AND LAMPS
A. ALL FIXTURES SHALL BEAR THE UNDERWRITERS LABORATORIES SEAL OF APPROVAL.
B. FIXTURE TYPES ARE INDICATED ON THE DRAWINGS BY MEANS OF LETTERS. REFER TO THE FIXTURE SCHEDULE FOR FIXTURE SPECIFICATIONS. WHEN A FIXTURE TYPE IS INDICATED IN A ROOM OR AREA, ALL OTHER FIXTURES IN THE ROOM OR AREA SHALL BE OF THE SAME TYPE UNLESS NOTED OTHERWISE.
C. ALL FLUORESCENT LAMPHOLDERS SHALL BE WHITE PHENOLIC COMPOUND, POSITIVE SPRING ACTION TYPE. FLUORESCENT FIXTURES WITH RAPID START LAMPS SHALL BE EQUIPPED WITH HIGH POWER FACTOR ETL/CBM APPROVED ENERGY SAVING CLASS "P" BALLASTS (UNIVERSAL "SLH" OR ADVANCE MARK III). ALL BALLASTS SHALL BE GUARANTEED FOR TWO YEARS OR MORE.
D. CLASS P, CERTIFIED CBM, HIGH POWER FACTOR, PREMIUM LOW HEAT, HIGH FREQUENCY ELECTRONIC BALLAST WITH AUTOMATIC RESET THERMAL PROTECTION. BALLAST SHALL OPERATE AT 10 PERCENT OR LESS TOTAL HARMONIC DISTORTION. ADVANCE MARK V OR EQUAL BY MOTOROLA OR MAGNETEK.
E. FIXTURES EXPOSED TO COLD WEATHER AND COLD TEMPERATURE SHALL BE WEATHERPROOF AND OF THE LOW TEMPERATURE TYPE SUITABLE FOR OPERATION AT CONDITIONS ENCOUNTERED.
F. ALL FIXTURES SHALL BE SO MANUFACTURED THAT ALL METALLIC PARTS WILL BE CONTINUOUSLY GROUNDED. WHERE ACRYLIC LENSES ARE SPECIFIED, THICKNESS OF SUCH LENS SHALL BE NOMINAL 0.125 INCH.
G. INCANDESCENT LAMPS SHALL BE RATED 110 VOLTS. FLUORESCENT LAMPS SHALL BE F32T8 RAPID START TYPE OR AS NOTED ON DRAWINGS. NO SUBSTITUTIONS WILL BE ALLOWED FOR HIGH INTENSITY DISCHARGE (HID) AND FLUORESCENT LAMPS LISTED BY SPECIFIC MANUFACTURERS. ALL LAMPS SHALL BE GENERAL ELECTRIC, SYLVANIA, OR PHILLIPS UNLESS OTHERWISE NOTED.

2.11 FIRE ALARM SYSTEM
A. FURNISH AND INSTALL A COMPLETE DESIGN/BUILD, ELECTRICALLY SUPERVISED, CLASS B MULTIPLE-ZONE, CONTINUOUS RINGING FIRE ALARM SYSTEM AS DESCRIBED HEREIN PER LOCAL FIRE DEPARTMENT REQUIREMENTS. SYSTEM SHALL BE CAPABLE OF SUPPORTING ENTIRE BUILD-OUT OF FACILITY AND SHALL INCLUDE NECESSARY REQUIREMENTS FOR MEDICAL OFFICE TYPE TENANTS. ALL COMPONENTS OF THE ENTIRE SYSTEM SHALL BE NEW AND LISTED, LABELED, AND APPROVED FOR ITS APPLICATION AS FIRE ALARM EQUIPMENT FOR NFPA 72A BY UNDERWRITERS LABORATORIES, INC., AND FACTORY MUTUAL. ACTUATION OF ANY MANUAL OR AUTOMATIC ALARM INITIATING DEVICE SHALL CAUSE DESIGNATED ALARM SIGNALING UNITS TO RING CONTINUOUSLY, LIGHT THE RESPECTIVE ZONE ALARM LAMP ON THE REMOTE ANNUNCIATOR, AND PROVIDE AN ALARM SIGNAL SUITABLE FOR MONITORING BY AN APPROVED CENTRAL STATION.
B. PRIMARY POWER SHALL BE 120 VAC MONITORED, AND A POWER-ON LAMP SHALL BE PROVIDED. UPON POWER OUTAGE, THE SYSTEM SHALL LIGHT A POWER TROUBLE CONDITION LAMP, INDICATE A TROUBLE CONDITION, AND AUTOMATICALLY TRANSFER POWER SUPPLY TO STANDBY BATTERIES. THE CONTROL PANEL SHALL ALSO MONITOR THE BATTERIES, AND UPON A LOW BATTERY CONDITION, LIGHT THE LOW BATTERY LAMP AND INDICATE A TROUBLE CONDITION. UPON GROUND FAULT DETECTION, THE GROUND DETECTION LAMP SHALL LIGHT AND A TROUBLE SIGNAL SHALL BE INDICATED. PROVIDE A LAMP TEST SWITCH TO TEST ALL LAMPS ON THE CONTROL PANEL.
C. PROVIDE A MUNICIPAL TRIP CIRCUIT THAT IS A DISTINCT SEPARATE CIRCUIT UTILIZED FOR NO OTHER PURPOSE. A MUNICIPAL TRIP DISCONNECT TEST SWITCH SHALL BE PROVIDED. THE MUNICIPAL TRIP DISCONNECT LAMP SHALL INDICATE THAT THE MUNICIPAL TRIP IS DISCONNECTED.
D. MANUAL STATIONS SHALL BE DESIGNED FOR SEMI-FLUSH MOUNTING. PLASTIC STATIONS WILL NOT BE ACCEPTABLE. STATIONS SHALL BE OF THE BREAK-GLASS DESIGN, AND MUST BE OPENED TO BE RESET. IT SHALL BE POSSIBLE, FOR TESTING PURPOSES, TO INITIATE AN ALARM WITHOUT BREAKING THE GLASS. PROVIDE A MINIMUM OF ONE SPARE GLASS ROD PER MANUAL STATION.
E. SMOKE DETECTORS SHALL BE LOW VOLTAGE, TWO WIRE, DUAL CHAMBER, IONIZATION TYPE. EACH DETECTOR SHALL BE SELF-COMPENSATING FOR THE EFFECTS OF AIR VELOCITY, TEMPERATURE, HUMIDITY AND ATMOSPHERIC PRESSURE. EACH DETECTOR SHALL CONTAIN AN INTEGRAL, VISUAL INDICATION OF ALARM VISIBLE FOR 360°.
F. ALARM HORNS SHALL BE SUITABLE FOR INDOOR OR OUTDOOR APPLICATION. ALL HORNS SHALL BE 24 VDC POLARIZED. THE MINIMUM SOUND LEVEL SHALL BE 95 DB AT 10 FEET. HORNS SHALL BE SEMI-FLUSHED MOUNTED.
G. VISUAL SIGNALS SHALL BE PROVIDED WITH EACH FIRE SIGNALING DEVICE. ONE ENCLOSURE SHALL INCORPORATE BOTH DEVICES. THE VISUAL SIGNAL SHALL FLASH ON ALARM OCCURRENCE. THE BEZEL SHALL EXTEND 1-1/2 INCHES MINIMUM FROM THE FINISHED WALL, AND BE APPROXIMATELY 3-1/2 INCHES BY 5 INCHES ENGRAVED "FIRE".
H. EQUIPMENT SHALL BE AS FOLLOWS AS MANUFACTURED BY EDWARDS, INC., OR PRIOR APPROVED EQUAL:
1. CONTROL PANEL: 5751B
2. IONIZATION SMOKE DETECTOR: 5250B
3. THERMAL DETECTOR: 285A
4. ALARM HORN: 894B
5. REMOTE LIGHT: RL-85
6. REMOTE ANNUNCIATOR: G1344

PART 3 - EXECUTION

3.01 CONDUIT
A. ALL WIRING SHALL BE INSTALLED IN CONDUIT. CONDUIT SHALL BE OF SIZE REQUIRED BY NEC OR LARGER AS INDICATED ON DRAWINGS, AND SHALL BE INSTALLED ACCORDING TO NEC. BENDS SHALL BE MADE WITH AN APPROVED HICKEY OR CONDUIT BENDING MACHINE. FACTORY BENDS OVER 1-1/4 INCHES ARE APPROVED.
B. EXPOSED CONDUIT SHALL NOT BE INSTALLED IN FINISHED AREAS UNLESS PRIOR APPROVED BY ARCHITECT. EXPOSED CONDUIT MAY BE INSTALLED IN EQUIPMENT ROOMS AND AT SURFACE MOUNTED EQUIPMENT. ALL EXPOSED CONDUIT SHALL BE RUN AT RIGHT ANGLES AND PARALLEL TO THE BUILDING LINES.
C. ALL UNDERGROUND CONDUIT SHALL BE INSTALLED AT A MINIMUM OF 30 INCHES BELOW FINISHED GRADE. CONDUITS INSTALLED BELOW CONCRETE SLABS SHALL BE A MINIMUM OF 12 INCHES BELOW SLAB. ALL UNDERGROUND CONDUITS SHALL BE INSTALLED IN SELECT BACKFILL IN ACCORDANCE WITH THE EARTHWORK SECTION OF THESE SPECIFICATIONS. ALL UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC, WITH PVC COATED GRC ELBOWS FOR ALL RADIUS BENDS.
D. USE APPROVED TYPE COUPLINGS AND CONNECTORS IN ALL CONDUIT RUNS, AND MAKE ALL JOINTS TIGHT. PROVIDE PREMIUM QUALITY COMPRESSION (SET SCREW) TYPE COUPLINGS. PROVIDE INSULATED BUSHINGS FOR ALL TERMINATIONS IN PIPE SIZES 1-1/4 INCHES AND LARGER. PROVIDE WEATHERPROOF FITTINGS FOR RUNS EXPOSED TO WEATHER AND HIGH HUMIDITY, AND CONCRETE TIGHT FITTINGS FOR CONDUITS INSTALLED IN CONCRETE SLABS. PROVIDE SEAL-OFF FITTINGS WHERE CONDUITS ENTER OR LEAVE HAZARDOUS WIRING AREA OR AREAS OF WIDELY DIFFERENT TEMPERATURE AND/OR HUMIDITY.
E. MAXIMUM CONDUIT SIZE FOR INSTALLATION IN CONCRETE SLABS OR WALLS SHALL BE 1 INCH.
F. PRIOR TO PULLING OF CONDUCTORS, CONDUITS SHALL BE CLEANED OF ALL FOREIGN MATTER. PROVIDE 200 POUND TEST NYLON PULL-LINES IN ALL CONDUITS INTENDED FOR FUTURE USE (E.G. TELEPHONE, ETC.).
G. PROVIDE CONDUIT WITH APPROPRIATE FITTINGS INSTALLED AS REQUIRED PER THE FOLLOWING CRITERIA:
1. BELOW GRADE IN EARTH: USE PVC OR PVC COATED RIGID STEEL CONDUIT. GRC IS REQUIRED WHERE UNDERGROUND OR UNDERSLAB CONDUITS PENETRATE A CONCRETE SLAB OR FOUNDATION WALL.
2. ABOVE GRADE, EXTERIOR (EXCEPT ROOFS): USE GRC, IMC, OR EMT WITH WEATHERPROOF FITTINGS.
3. ON ROOFS: USE GRC.
4. ABOVE GRADE, INTERIOR:
a. IN LOCATIONS SUBJECT TO DAMAGE: USE GRC WITH THREADED GRC FITTINGS.
b. IN WET OR DAMP LOCATIONS: USE GRC WITH WEATHERPROOF FITTINGS.
c. IN HAZARDOUS LOCATIONS: USE GRC, IMC, OR EMT AS REQUIRED FOR THE CLASSIFICATION OR THE AREA WITH MATCHING COMPRESSION OR THREADED FITTINGS.
d. IN DRY LOCATIONS, BLOCK WALLS, OR CONCRETE WALLS: USE GRC, IMC, OR EMT WITH COMPRESSION (SET-SCREW) FITTINGS.
5. IN SLAB ON GRADE: USE PVC OR PVC COATED GRC.
6. IN CONCRETE SLABS ABOVE THE GROUND FLOOR: USE PVC, GRC, IMC, OR EMT. (ALT. -- NO CONDUITS ARE ALLOWED IN CONCRETE SLABS.)
7. USE FLEXIBLE METALLIC CONDUIT IN THE FOLLOWING APPLICATIONS:
a. RECESSED LIGHTING FIXTURES
b. MOTOR CONNECTIONS
c. CONNECTION BETWEEN FAN PLENUM AND STRUCTURE
d. AT EXPANSION JOINTS
e. AT TRANSFORMER AND OTHER EQUIPMENT WHICH PRODUCES VIBRATION
8. USE FLEXIBLE NON-METALLIC CONDUIT IN THE FOLLOWING APPLICATIONS:
a. AT ALL LOCATIONS LISTED ABOVE FOR FLEXIBLE METALLIC CONDUIT WHERE EXPOSED TO MOISTURE IN WET OF DAMP LOCATIONS.
H. PROVIDE SLEEVES WHERE CONDUIT PENETRATES A FIRE RATED WALL. SLEEVE SHALL BE RATED AS REQUIRED TO MAINTAIN THE FIRE RATING OF THE WALL THAT IS BEING PENETRATED.
I. USE PVC COATED OR BITUMINOUS COATED GALVANIZED RIGID METAL ELBOWS FOR STUB UPS AND 90O BENDS IN UNDERGROUND CONDUITS AND FOR ALL RISERS TO GRADE AND ENTRY FROM BUILDING EXTERIOR.

3.02 WIRING
A. NO WIRE SHALL BE INSTALLED PRIOR TO COMPLETION OF WORK WHICH MIGHT CAUSE DAMAGE TO CONDUCTORS. ALL SERVICE CONDUCTORS, FEEDERS, AND BRANCH CIRCUITS SHALL BE COLOR CODED IN ACCORDANCE WITH ARTICLE 210-5 OF THE NEC. COLOR CODING SHALL BE VIA COLORED INSULATION OR TAPE AT ALL TERMINATION LOCATIONS. WIRING FOR SPECIAL SYSTEMS SUCH AS MECHANICAL EQUIPMENT, ETC., SHALL BE IN ACCORDANCE WITH MANUFACTURERS WIRING DIAGRAMS FURNISHED.
B. WIRING SHALL BE CONTINUOUS FROM OUTLET TO OUTLET OR JUNCTION BOX. SPLICES SHALL BE HELD TO A MINIMUM, AND SHALL BE MADE ONLY AT READILY ACCESSIBLE PULL BOX, JUNCTION BOX, OR OUTLET BOX. THE INSULATION VALUE OF THE JOINT SHALL EQUAL THAT OF THE CONDUCTOR. SPLICES AND CONNECTION SHALL BE MADE BY TWISTING TIGHT AND INSTALLING INSULATED PRESSURE OR WIRE NUT CONNECTORS FOR #10 AWG AND SMALLER, AND WITH STEEL CRIMP-ON SLEEVES AND OVERALL NYLON INSULATOR FOR #8 AWG AND LARGER.
C. WHERE ALUMINUM CONDUCTORS ARE INDICATED, ALL TERMINATIONS SHALL BE ACCOMPLISHED WITH APPROVED COMPRESSION TERMINATORS (BURNDY HYPLUG OR EQUAL). ALL ALUMINUM TERMINATIONS SHALL BE TREATED WITH DEOXIDIZING SOLUTION (BURNDY PENETROX OR EQUAL).
D. COLOR CODE ALL CONDUCTORS. WIRE SIZES #8 AWG OR SMALLER SHALL HAVE INTEGRAL COLOR-CODED INSULATION. WIRE SIZES #6 AWG AND LARGER MAY HAVE BLACK INSULATION BUT IDENTIFIED BY COLOR-CODED ELECTRICAL TAPE AT ALL JUNCTION, SPLICE, PULL, OR TERMINATION POINTS. COLOR TAPE SHALL BE APPLIED TO AT LEAST 6 INCHES OF THE CONDUCTOR.
E. COLOR CODE WIRES AS FOLLOWS: 208/120 VOLTS PHASES: A-BLACK, B-RED, C-BLUE, NEUTRAL-WHITE, GROUND-GREEN
F. COLOR CODING OF WIRES USED FOR SIGNAL AND COMMUNICATION SYSTEMS ARE SPECIFIED UNDER THE RESPECTIVE SECTIONS FOR THESE SYSTEMS.

3.03 GROUNDING
A. PROVIDE GROUNDING ELECTRODE CONDUCTORS SIZED IN ACCORDANCE WITH THE DRAWINGS BETWEEN THE SERVICE GROUND BUS AND THE FOLLOWING GROUNDING ELECTRODES FOR THE MAIN SERVICE GROUNDING SYSTEM:
1. DOMESTIC AND FIRE PROTECTION METALLIC WATER PIPES.
2. THE METAL FRAME OR STRUCTURE OF THE BUILDING.
3. A MINIMUM OF 20 INCHES OF #2 AWG BARE SOLID COPPER CONDUCTOR LOCATED NEAR THE BOTTOM OF THE CONCRETE FOUNDATION OR FOOTING THAT IS IN DIRECT CONTACT WITH EARTH. ELECTRODE SHALL BE CADWELDED, OR EQUAL, TO ALL VERTICAL REINFORCING BARS, AND SHALL BE ENCASED BY AT LEAST 2 INCHES OF CONCRETE.
B. THE SERVICE NEUTRAL SHALL BE CONNECTED TO THE GROUND BUS WITH AN UNSPLICED CLASS B STRANDED COPPER CONDUCTOR SIZED PER NEC TABLE 250-66. PROVIDE AN EQUIPMENT BONDING JUMPER TO THE NON-CURRENT CARRYING PARTS OF THE MAIN SERVICE SIZED PER NEC TABLE 250-112.
C. ALL ELECTRICAL NEUTRALS, RACEWAYS, AND NON-CURRENT CARRYING PARTS OF ELECTRICAL EQUIPMENT AND ASSOCIATED ENCLOSURES SHALL BE GROUNDED IN ACCORDANCE WITH NEC ARTICLE 250. AN IDENTIFIED GROUNDING CONDUCTOR SHALL BE INSTALLED IN ALL FLEXIBLE METALLIC OR PVC CONDUITS. CONNECT GROUND WIRE TO THE GROUND TERMINAL OF ALL DEVICES. PROVIDE GROUND BOND JUMPER FROM GROUNDING TERMINAL TO OUTLET BOX WHERE GROUND WIRE IS NOT PULLED.

3.04 OUTLET BOXES
A. BOXES SHALL BE SUITABLE FOR REQUIREMENTS OF EACH OUTLET AND OF SUCH DIMENSIONS AS WILL FIT STRUCTURAL CONDITIONS. BOXES SHALL BE INSTALLED IN RIGID MANNER USING EXPANSION SHIELDS, POWER ACTUATED FASTENERS, ETC., ON CONCRETE OR MASONRY AS REQUIRED.
B. PROVIDE SINGLE GANG (OR AS REQUIRED FOR OUTLET) PLASTER OR TILE RINGS FOR ALL FLUSH OUTLETS INSTALLED AT FINISHED WALL AND CEILING SURFACES (TILE, GYPSUM BOARD, PLASTER, ETC.).
C. OUTLETS SHOWN "BACK-TO-BACK" ARE TO BE INSTALLED WITH A MINIMUM OF 6 INCHES HORIZONTAL SEPARATION TO MINIMIZE SOUND TRANSMISSION. "THROUGH-THE-WALL" TYPE BOXES ARE NOT PERMITTED.

3.05 WIRING DEVICES
A. WALL SWITCH OUTLETS SHOWN AT DOOR LOCATIONS SHALL BE INSTALLED ON LATCH SIDE OF DOOR. ALL DEVICES SHALL BE MOUNTED VERTICALLY. THE FOLLOWING MOUNTING HEIGHTS TO CENTERLINE OF DEVICE FROM FINISHED FLOOR SHALL APPLY UNLESS OTHERWISE NOTED:
1. WALL SWITCH OUTLETS: 48"
2. GENERAL PURPOSE RECEPTACLES: 16"
3. RECEPTACLE OUTLETS IN UTILITY AND EQUIPMENT ROOMS: 42"
4. TELEPHONE OUTLET: 16"
5. TELEPHONE OUTLET FOR WALL TELEPHONE: 54"
B. PROVIDE COVERPLATES FOR ALL OUTLETS.

3.06 LIGHTING
A. ALL LIGHTING FIXTURES AND EQUIPMENT AS INDICATED ON THE DRAWINGS AND AS DESCRIBED HEREIN SHALL BE FURNISHED AND INSTALLED. ALL FIXTURES SHALL BEAR THE UL SEAL OF APPROVAL.
B. ALL FIXTURES SHALL BE SECURELY SUPPORTED AND ALL OUTLETS SHALL BE SECURELY ANCHORED. FURNISH ALL SUPPORTS NECESSARY FOR INSTALLATION INCLUDING STRUCTURAL MEMBERS WHERE REQUIRED.
C. PROVIDE SEPARATE JUNCTION BOX AND WIRE TO RECESSED FIXTURES, IN FLEXIBLE CONDUIT WITH TYPE AF WIRE UNLESS UL APPROVED PREWIRED FIXTURES ARE USED. OPENINGS CUT IN CEILINGS FOR RECESSED FIXTURES SHALL BE COMPLETELY CONCEALED AFTER FIXTURE TRIM IS INSTALLED. WHERE FLEXIBLE CONDUIT IS USED WITH THREE OR FOUR LAMP FLUORESCENT FIXTURES, PROVIDE SEPARATE LEADS FOR EACH BALLAST, WITH INBOARD LAMPS CONNECTED TO ONE BALLAST, AND OUTBOARD LAMP(S) CONNECTED TO THE OTHER BALLAST. ALL INTERIOR LIGHTING SHALL BE LOCALLY SWITCHED.

3.07 FLOOR MOUNTED EQUIPMENT
A. PROVIDE 4 INCH HIGH CONCRETE CURBS FOR ALL FLOOR MOUNTED EQUIPMENT IN ACCORDANCE WITH THE CONCRETE SECTION OF THESE SPECIFICATIONS. CURBS TO BE 2 INCHES LONGER, IN ALL DIMENSIONS, THAN EQUIPMENT MOUNTED THEREON.

3.08 BRANCH CIRCUIT PANELS
A. A TYPED DIRECTORY, PROPERLY IDENTIFYING EACH CIRCUIT, SHALL BE MOUNTED IN EACH DIRECTORY FRAME. INSTALL PANELS UP 6 FOOT, 6 INCHES TO TOP OF TRIM OR AS DIRECTED BY ARCHITECT. FOR BRANCH CIRCUIT PANELS, PROVIDE ENGRAVED LAMINATED PLASTIC NAMEPLATES (1 INCH BY 3 INCHES WITH 1/4 INCH HIGH BLACK LETTERS ON WHITE BACKGROUND) LISTING NAME, VOLTAGE, AND AMPACITY RATING IN ACCORDANCE WITH IDENTIFICATIONS ON SERVING SWITCHBOARD. DOORS AND TRIM INSTALLED IN FINISHED AREAS SHALL BE PRIME COATED.

3.09 TELEPHONE RACEWAYS
A. FURNISH AND INSTALL COMPLETE TELEPHONE RACEWAYS SYSTEM AS INDICATED ON THE DRAWINGS. INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH ALL REQUIREMENTS AND RECOMMENDATIONS OF THE TELEPHONE COMPANY. PROVIDE PLASTIC BUSHINGS FOR ALL ROUGH CONDUIT TERMINATIONS, AND 200 POUND TEST NYLON PULL-LINES IN ALL CONDUITS INTENDED FOR FUTURE USE. VERIFY ALL CONDUIT SIZES, TERMINAL SIZES, AND LOCATIONS WITH THE TELEPHONE COMPANY. 3.10 WIRING FOR MECHANICAL EQUIPMENT
A. FURNISH AND INSTALL CIRCUITS, FEEDERS, DISCONNECT SWITCHES, OUTLETS AND MAKE ALL CONNECTIONS TO MOTORS AND/OR CONTROLS FOR HEATING, VENTILATING, AIR CONDITIONING, AND PLUMBING EQUIPMENT AS CALLED FOR IN THE DRAWINGS AND SPECIFICATIONS.
B. FLEXIBLE CONDUIT SHALL BE USED FOR CONNECTIONS TO MOTORS AND/OR OTHER EQUIPMENT WHERE VIBRATION IS ENCOUNTERED AND/OR AS CALLED FOR ON THE DRAWINGS. EVERY EFFORT SHALL BE MADE TO MAINTAIN A MAXIMUM FLEXIBLE CONDUIT LENGTH OF 3 FEET.
C. INSTALL AND CONNECT ALL MAGNETIC STARTERS AND LINE VOLTAGE CONTROLLERS, PUSHBUTTON STATIONS, THERMOSTATS, ETC., FURNISHED BY OTHERS. LOCATE AS DIRECTED BY MECHANICAL CONTRACTOR. REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS FOR ALL POWER AND CONTROL OUTLETS AND REQUIRED WIRING.
D. LINE VOLTAGE CONTROL WIRING, INCLUDING INTERLOCKS WITH OTHER MECHANICAL EQUIPMENT, SHALL BE BY ELECTRICAL CONTRACTOR, AT THE DIRECTION OF AND UNDER THE SUPERVISION OF THE MECHANICAL CONTRACTOR.
E. PROVIDE WEATHERPROOF SWITCHES FOR ALL EQUIPMENT LOCATED ON ROOF OR WHERE EXPOSED TO WEATHER.

END OF SECTION 26000

No	Revision / Submissions	Date

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SVA GREELEY
Shell Building
1911 59th AVENUE
GREELEY, CO 80634

ELECTRICAL SPECIFICATIONS

COLORADO REGISTERED VERNON R. WILLSON 35418 PROFESSIONAL ENGINEER

Designed: JH	Project Number: 25-010
Drawn: JH	Scale: As Shown
Checked: VJR	Drawing Number:
Reviewed: VRW	E3
Date: 02/12/2025	3 of 4

COMcheck Software Version COMcheckWeb

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2021 IECC
Project Title: 25-010 - SVA Greeley Core and Shell
Project Type: New Construction

Construction Site:
1911 59th Avenue
Greeley, Colorado 80634

Owner/Agent:

Designer/Contractor:

Additional Efficiency Package(s)

Credits: 10.0 Required 0.0 Proposed

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-Healthcare Core/Shell (Health Care-Clinic)	7215	0.81	5844
		Total Allowed Watts =	5844

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
1-Healthcare Core/Shell (Health Care-Clinic)				
LED: FE: 4' LED Strip: Other:	1	1	35	35
			Total Proposed Watts =	35

Interior Lighting PASSES: Design 99% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2021 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Justin Hayes - Electrical Engineer — Name - Title
JUSTIN HAYES — Signature
02-12-2025 — Date

COMcheck Software Version COMcheckWeb

Exterior Lighting Compliance Certificate

Project Information

Energy Code: 2021 IECC
Project Title: 25-010 - SVA Greeley Core and Shell
Project Type: New Construction
Exterior Lighting Zone: 2 (Light industrial area with limited nighttime use (LZ2))

Construction Site:
1911 59th Avenue
Greeley, Colorado 80634

Owner/Agent:

Designer/Contractor:

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts /	D Tradable Wattage	E Allowed Watts (B X C)
Parking Lot (Parking area)	9760 ft2	0.04	Yes	390
Building Exterior (Illuminated area of facade wall or surface)	8000 ft2	0.07	No	600
			Total Tradable Watts (a) =	390
			Total Allowed Watts =	990
			Total Allowed Supplemental Watts (b) =	400

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
(b) A supplemental allowance equal to 400 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
Parking Lot (Parking area, 9760 ft2): Tradable Wattage				
LED: AA: 20' LED Site Pole: Other:	1	4	166	664
Building Exterior (Illuminated area of facade wall or surface, 8000 ft2): Non-tradable Wattage				
LED: BB: Exterior LED Sconce: Other:	1	9	12	108
LED: CE: Exterior Egress Light: Other:	1	5	14	70
			Total Tradable Proposed Watts =	664

Exterior Lighting PASSES: Design 16% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2021 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Justin Hayes - Electrical Engineer — Name - Title
JUSTIN HAYES — Signature
02-12-2025 — Date

COMcheck Software Version COMcheckWeb

Inspection Checklist

Energy Code: 2021 IECC

Requirements: 0.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR4][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C103.2 [PR8][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include exterior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C406 [PR9][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.3.1 [EL22][1]	Spaces required to have light-reduction controls have a manual control that allows the occupant to reduce the connected lighting load in a reasonably uniform illumination pattern >= 50 percent.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.1, C405.2.1.1 [EL18][1]	Occupancy sensors installed in classrooms/lecture/training rooms, conference/meeting/multipurpose rooms, copy/print rooms, lounges/breakrooms, enclosed offices, open plan office areas, restrooms, storage rooms, locker rooms, corridors, warehouse storage areas, and other spaces <= 300 sqft that are enclosed by floor-to-ceiling height partitions. Reference section language C405.2.1.2 for control function in warehouses and section C405.2.1.3 for open plan office spaces.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.1.2 [EL19][1]	Occupancy sensors control function in warehouses: In warehouses, the lighting in aisleways and open areas is controlled with occupant sensors that automatically reduce lighting power by 50% or more within 20 minutes of when the areas are unoccupied. The occupant sensors control lighting in each aisleway independently and do not control lighting beyond the aisleway being controlled by the sensor. Lights not turned off by occupant sensors is done so by time-switch.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.1.3 [EL20][1]	Occupant sensor control function in open plan office areas: Occupant sensor controls in open office spaces >= 300 sq.ft. have controls 1) configured so that general lighting can be controlled separately in control zones with floor areas <= 600 sq.ft. within the space, 2) general lighting in each zone permitted to turn on upon occupancy in control zone, 3) automatically turn off general lighting in all control zones within 20 minutes after all occupants have left the space, 4) are configured so that general lighting power in each control zone is reduced by >= 80% of the full zone general lighting power within 20 minutes of all occupants leaving that control zone.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.2, C405.2.2.1 [EL21][2]	Each area not served by occupancy sensors (per C405.2.1.1) have time-switch controls and functions detailed in sections C405.2.2.1.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.4, C405.2.4.1, C405.2.4.2 [EL23][2]	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3 Daylight-responsive controls for applicable spaces, C405.2.3.1 Daylight responsive control function and section C405.2.3.2 Sidelit zone.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.5 [EL27][1]	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.7 [EL28][1]	Automatic lighting controls for exterior lighting installed. Controls will be daylight controlled, set based on business operation time-of-day, or reduce connected lighting > 30%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.7 [EL26][2]	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.8 [EL27][2]	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.9.1, C405.9.2 [EL28][2]	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.10 [EL29][2]	Total voltage drop across the combination of feeders and branch circuits <= 5%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.1.1 [EL30][2]	At least 90% of dwelling unit permanently installed lighting shall have lamp efficacy >= 65 lm/W or luminaires with efficacy >= 45 lm/W or comply with C405.2.4 or C405.3.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.11, C405.11.1 [EL31][2]	50% of 15/20 amp receptacles installed in enclosed offices, conference rooms, copy rooms, break rooms, classrooms and workstations and > 25% of branch circuit feeders for modular furniture will have automatic receptacle control in accordance with C405.11 1.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5.2 [FI17][3]	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.5.1 [FI19][3]	Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Exterior Lighting fixture schedule for values.*
C408.1.1 [FI57][3]	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.5 [FI16][3]	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.3 [FI33][3]	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

No	Revision / Submissions	Date

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COMCHECK

COLORADO REGISTERED VERNON R. ROSSI 35418 PROFESSIONAL ENGINEER

Designed: JH	Project Number: 25-010
Drawn: JH	Scale: As Shown
Checked: VJR	Drawing Number: E4
Reviewed: VRW	
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