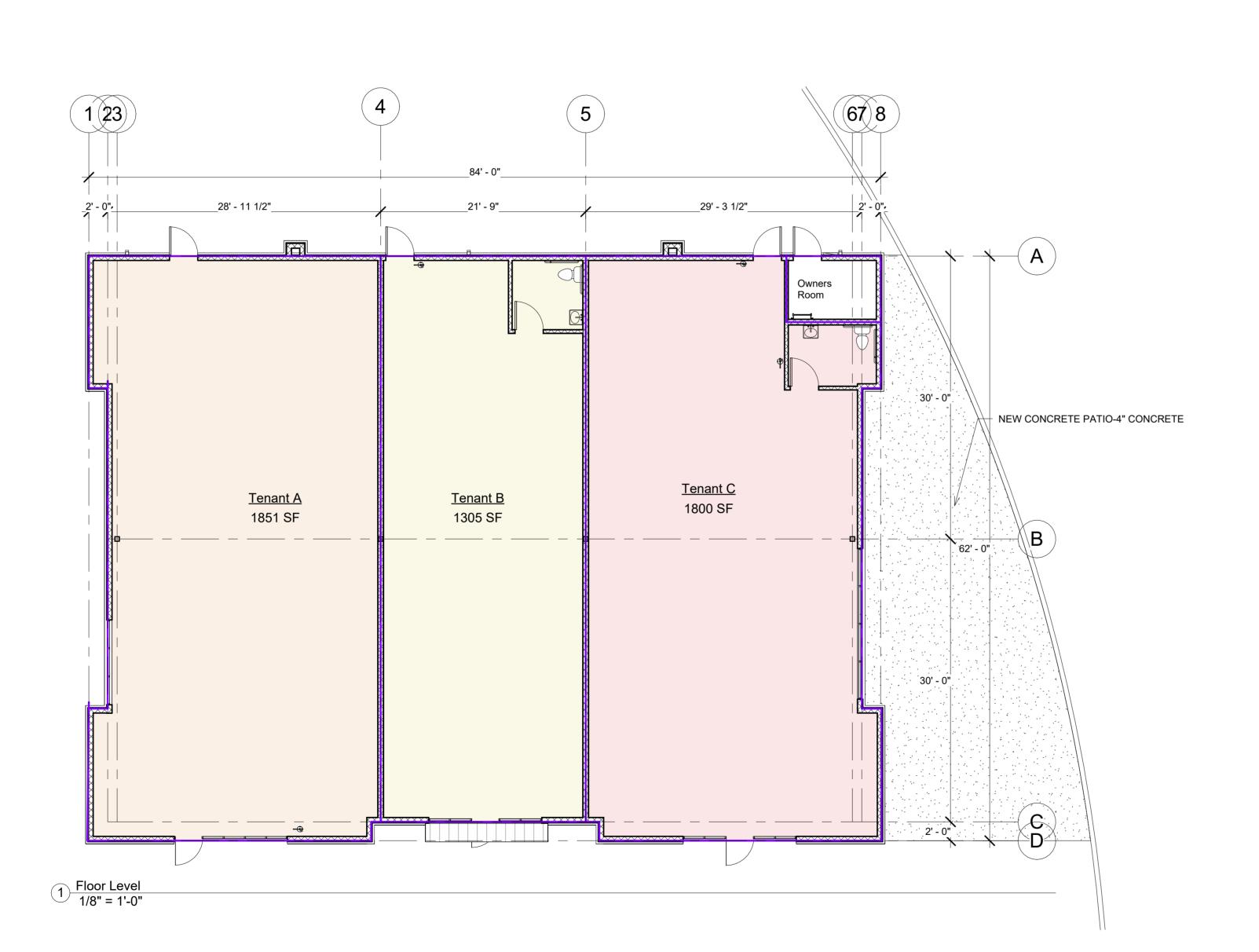


RC/ACA FOR REVIEW

2-17-23





ORCHARDS SUMMIT

CHIPMAN ROAD

NEW BUILDING FOR

410 J.Jeffry Schroeder Mo. Licence A-4226 Herman Scharhag Co., Arch. Cert. of Authority A-22

Description **Revision Schedule**

Area Plan

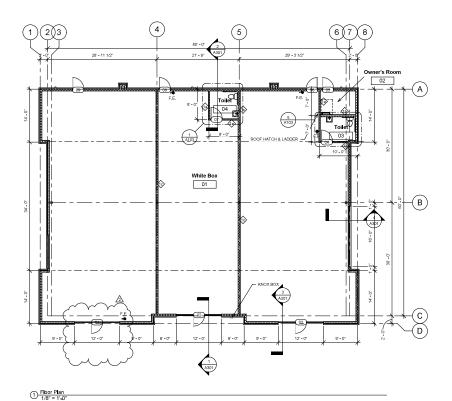
2491 05.30.2025

A100

Scale

1/8" = 1'-0"







BUILDING CODE SUMMARY

SPECIA, ROWLLEGE OLS HOW.

PREMISS SHALL BE EDITHFEO DO ALL EXTERIOR DOORS, WITH INJURIERS ADOOR LETTERS EACH CHARACTER SHALL BE NOT INCRESS THAN 91-100 WITH A MIRHAUM STRONG WIGHT OF 10" INCRESS THAN 91-10" INCRESS THAN 91-10" INCRESS THAN 91-10" INCRESS THAT ARE PLANK.

STREET FACING DOORS SHALL HAVE ADDRESSES THAT ARE PLANK.

INJURIES ANDOOLETTERS SHALL BE ARREST NUMBERS.

OR APPRIENT LETTERS.

 2
 Owner change
 6.5

 1
 No.
 Description
 Date
 Revision Schedule

SUMMIT ORCHARDS 410 NW CHIPMAN ROAD

NEW BUILDING FOR

Floor Plan

A101





мелии в хриение солими. жонтестя 6247 Brookside Blvd, #204 Kansas City, Mo 64113 Phone: 816-656-5055 Scharhagarch@gmail.com

Scharhage Scharbage

	Door Schedule								
Number	Family	Туре	hardware type	Door type	Frame Type				
01	Storefront Entry Single	3'.0" x 7'.0"		AL	AL				
02	Storefront Entry Single	3'.0" x 7'.0"		AL	AL				
03	Storefront Entry Single	3'.0" x 7'.0"		AL	AL				
04	Single-Flush	3 x 7 Toilet	Latchset w/ lever handles, strike plate, 1 1/2 pair hinges, closer	WD	НМ				
05	Single-Flush	3 x7 Exterior	Lockset w/ lever handles, strike plate, 1 1/2 pair hinges, closer, drip cap, gasketing, bottom sweep	НМ	НМ				
06	Single-Flush	3 x7 Exterior	Lockset w/ lever handles, strike plate, 1 1/2 pair hinges, closer, drip cap, gasketing, bottom sweep	НМ	НМ				
07	Single-Flush	3 x 7 Toilet	Latchset w/ lever handles, strike plate, 1 1/2 pair hinges, closer	WD	НМ				
08	Single-Flush	3 x7 Exterior	Lockset w/ lever handles, strike plate, 1 1/2 pair hinges, closer, drip cap, gasketing, bottom sweep	НМ	НМ				
09	Single-Flush	3 x7 Exterior	Lockset w/ lever handles, strike plate, 1 1/2 pair hinges, closer, drip cap, gasketing, bottom sweep	НМ	НМ				

	Wall Schedule								
Type Mark Type Type Comments		Type Comments	Function						
1a	Interior Partition - Wood Stud	2x4 Wood studs @ 16" o.c. w/ 3 1/2" batt insulation and (1) layer 5/8" gyp. board each side. To 10'.0" aff	Interior						
1b	Interior Partition -wet wall	2x6 Wood studs at 16" o.c. w/ 6" fiberglass batt insulation and (1) layer 5/8" gyp. board each side. To 10'.0" aff	Interior						
1c	Interior Partition -Demising	6" 20 ga. metal studs at 16" o.c. w/ 6" fiberglass batt insulation and (1) layer 5/8" gyp. board each side. To roof deck with slip track.	Interior						

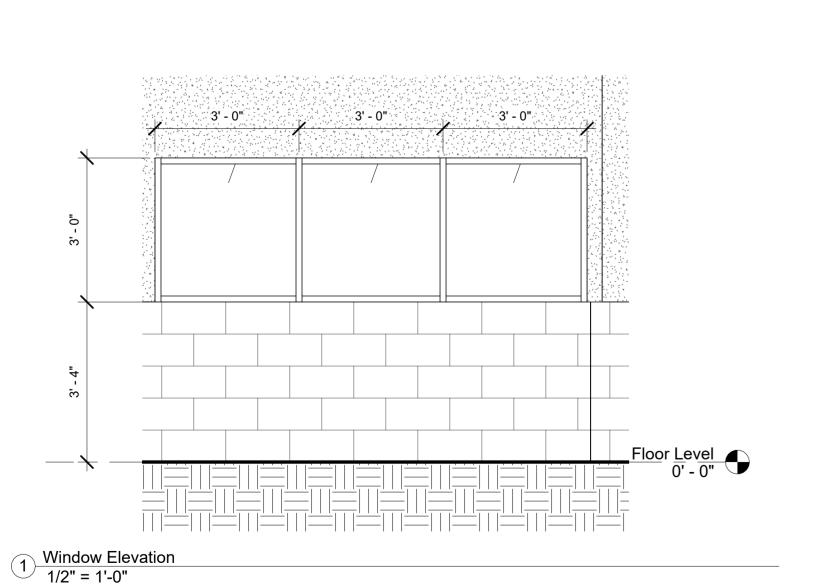
Room Schedule									
Number	Name	Base Finish	Wall Finish	Floor Finish	Ceiling Finish				
01	White Box	None	Painted gyp. b'd	Concrete	None				
02	Owner's Room	None	Painted gyp. b'd	Concrete	2x4 Suspended Acoustical				
03	Toilet	6" rubber cove	Epoxy Paint	LVT	2x4 Suspended Acoustical				
04	Toilet	6" rubber cove	Epoxy Paint	LVT	2x4 Suspended Acoustical				
05	Toilet	6" rubber cove	Epoxy Paint	LVT	2x4 Suspended Acoustical				
06	Toilet	6" rubber cove	Epoxy Paint	Concrete	2x4 Suspended Acoustical				

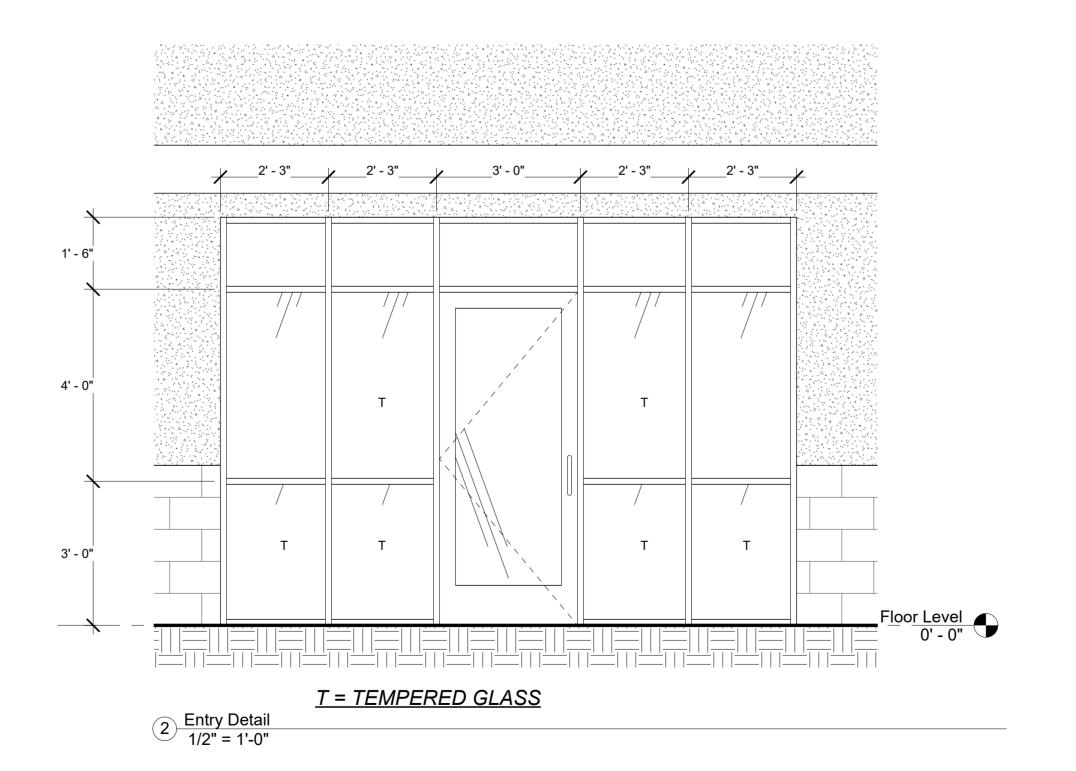
CEILING HEIGHT TO BE 9'.0" AFF

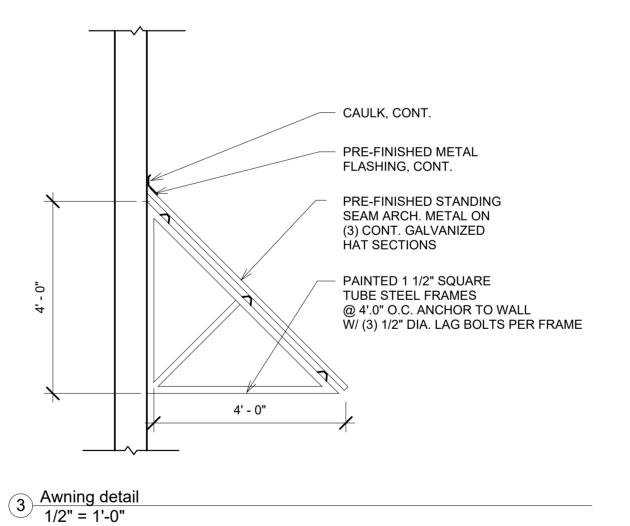
HM = 16 GA. HOLLOW METAL, PAINTED WD = SOLID CORE RED OAK, STAINED AL = ANODIZED ALUMINUM IRP = IMPACT RESISTANT PLASTIC

HARDWARE SHALL BE MEDIUM DUTY COMMERCIAL GRADE. DOOR HARDWARE SHALL CONSIST OF BUTTS, LATCHSET OR LOCKSET, SILENCERS, SMOKE GASKETING FOR RATED DOORS, CLOSERS WHERE NOTED, PANIC DEVICES WHERE NOTED. EXTERIOR DOORS SHALL ALSO HAVE THRESHOLD, WEATHERSTRIPPING, SWEEP AND KEYED LOCK. CONTRACTOR SHALL COORDINATE ALL LATCH/LOCK FUNCTIONS AND KEYING OF LOCKS WITH OWNER. MAX. THRESHOLD = 1/2". ALL HARDWARE TO BE LEVER TYPE OR PUSH/PULL. ALL DOORS IN EGRESS PATHWAYS SHALL BE FREE TURNING FOR EXITING. ALL EGRESS DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT. FURTHER, ALL EGRESS DOORS FROM ROOMS AND EXTERIOR EGRESS DOORS, FOR GROUP A AND GROUP E OCCUPANCIES SHALL NOT HAVE A LOCK OR LATCH OTHER THAN PANIC HARDWARE. ALL DOOR THRESHOLDS SHALL BE A MAX. OF ½" ABOVE FLOOR LEVEL AND BOTH SIDES SHALL BE BEVELED AT A SLOPE OF 1:2. SCHLAGE OR EQUAL STANDARD DUTY HARDWARE (SATIN CHROME) WITH LEVERS.

GLASS IN DOORS AND SIDELIGHTS SHALL BE SAFETY GLASS PER IBC SEC. 2406.1





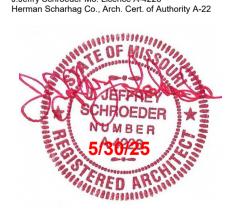


EW BUILDING FOR

J.Jeffry Schroeder Mo. Licence A-4226 Herman Scharhag Co., Arch. Cert. of Authority A-22

CHIPMAN ROAD

Copyright 2025 Herman A. Scharhag Co., Architects All Rights Reserved. No part of these drawings may be reproduced in any form or by any electronic or mechanical means, without written permission.



1		
No.	Description	Dat

Architectural Details

Project number 2491

Date 05.30.2025

A102

As indicated

Scale

RO

CHIPMAN



Date Description **Revision Schedule**

Architectural Details

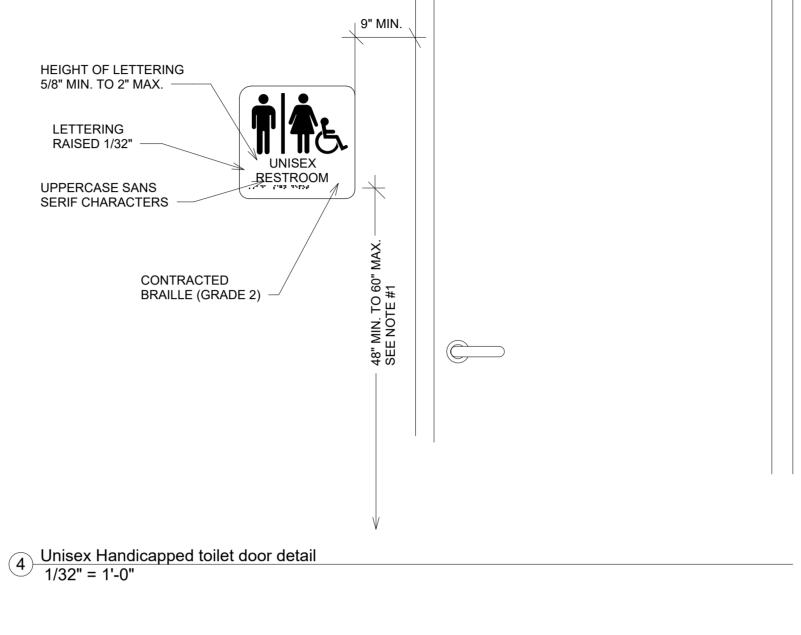
Project number 05.30.2025

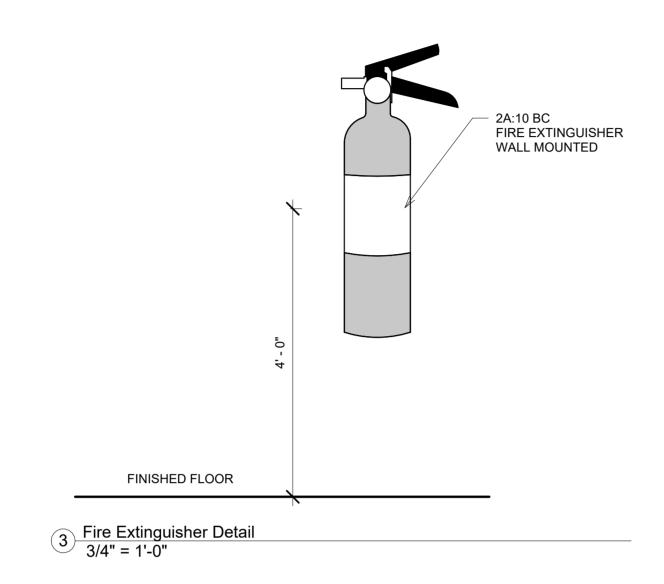
As indicated

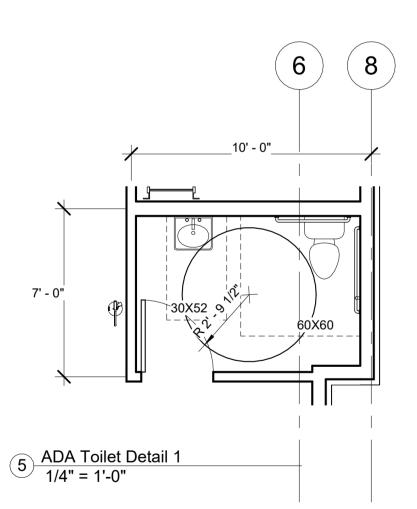
Copyright 2025 Herman A. Scharhag Co., Architects All Rights Reserved. No part of these drawings may be reproduced in any form or by any electronic or mechanical means, without written permission.

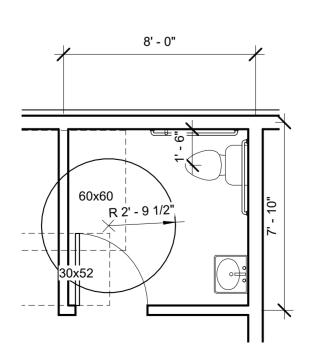
ICC/ANSI A117.1-2017

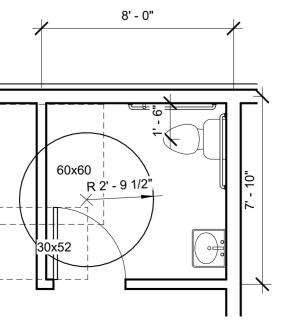
SANITARY FACILITIES



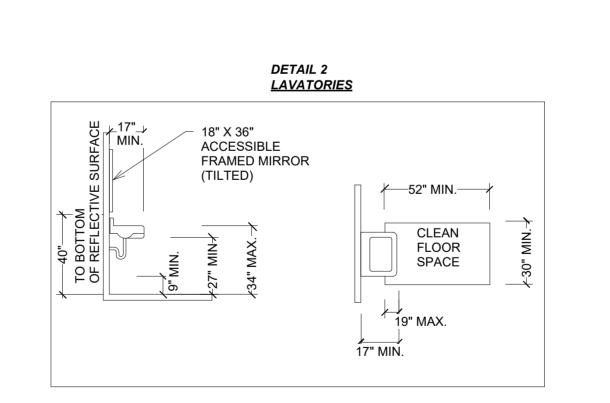


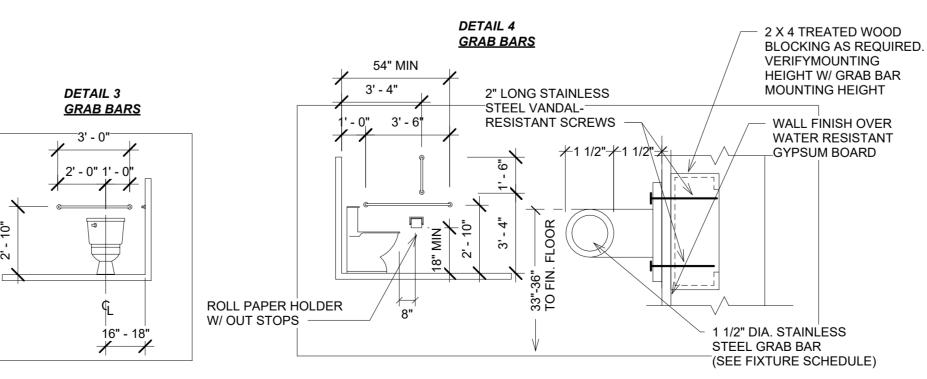






1 ADA Toilet Detail 3 1/4" = 1'-0"





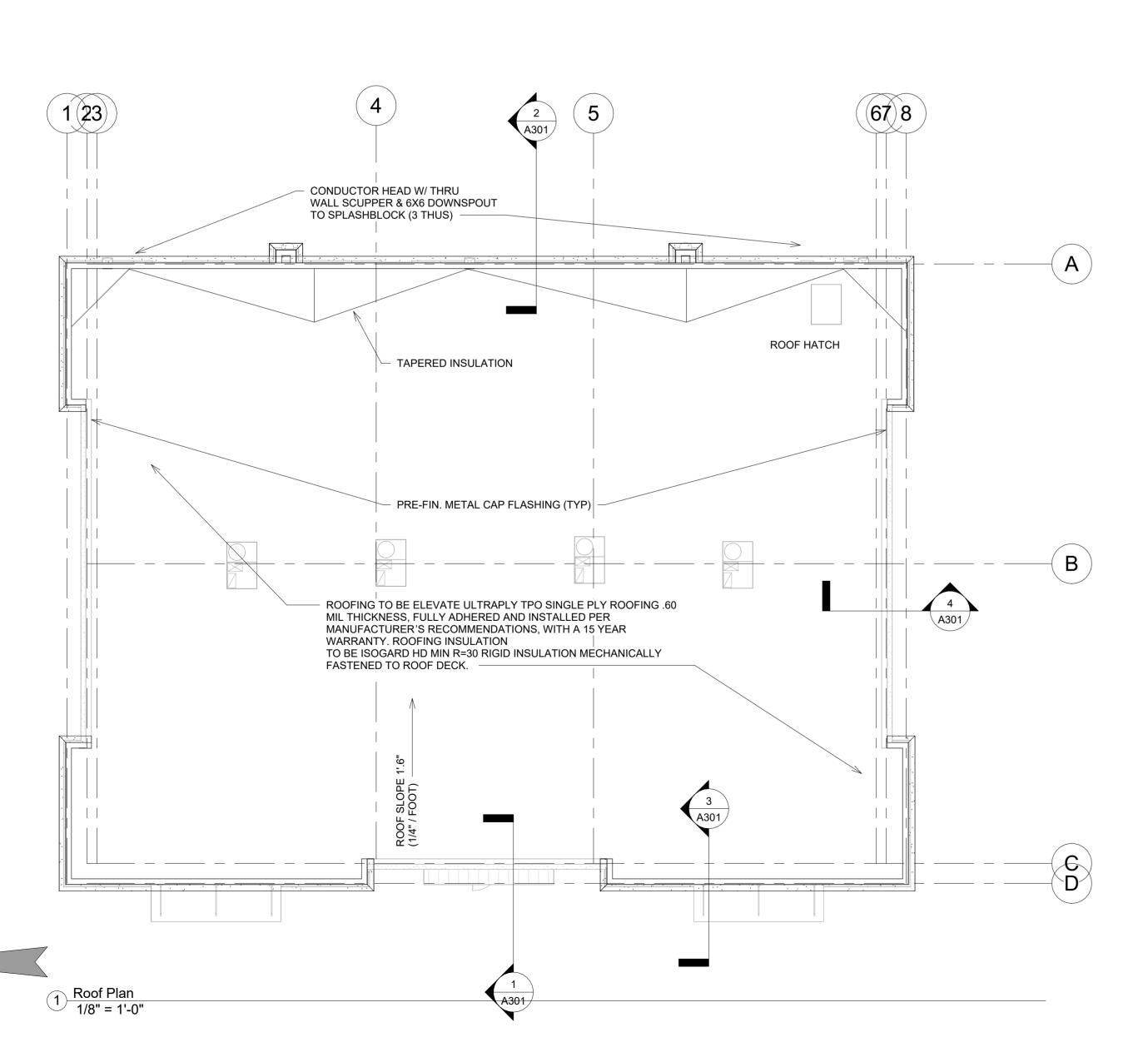
2 ADA Toilet Details 2017 1/4" = 1'-0"

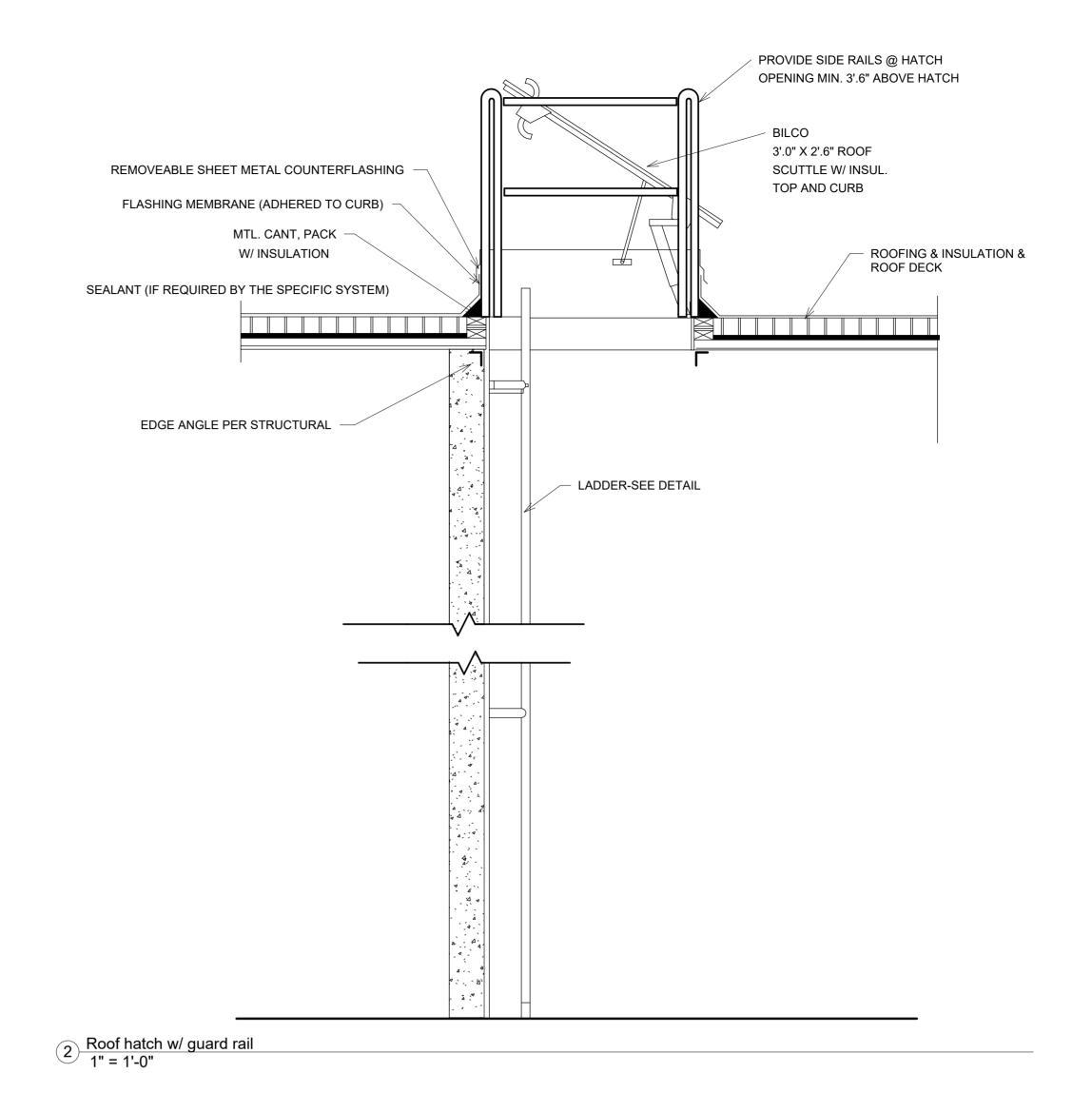
<u>FINISHES</u> - FLOOR FINISH SHALL BE VCT WITH 6" RUBBER COVE BASE. WALL FINISHES WILL BE EPOXY PAINT

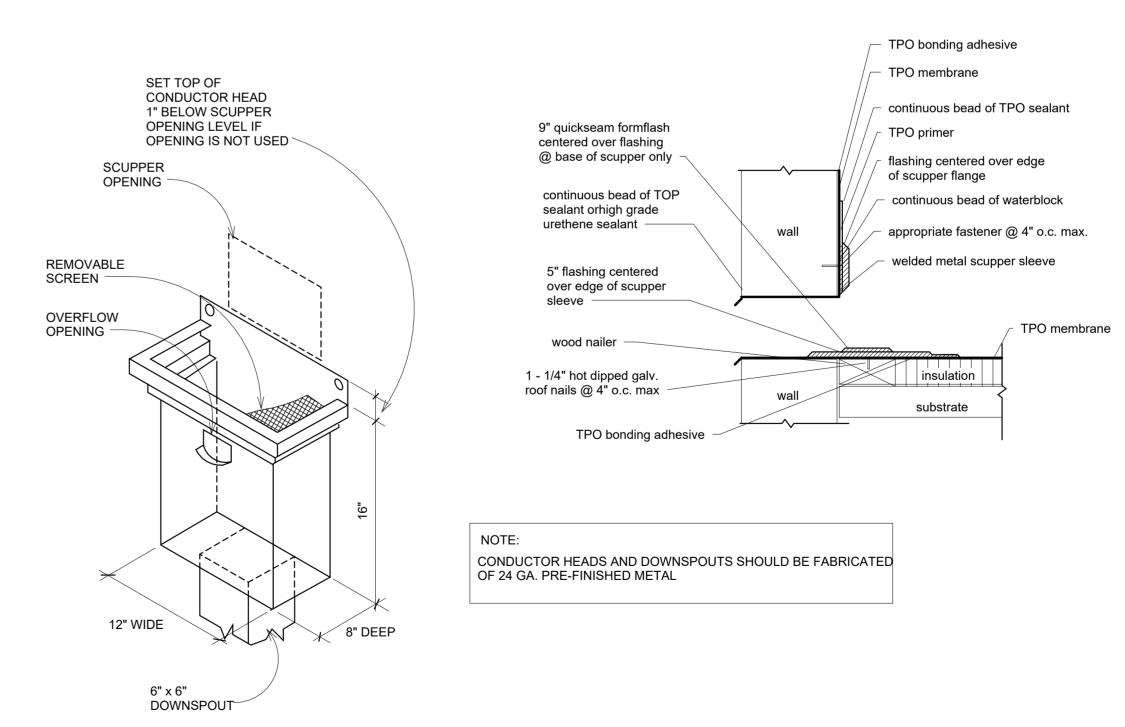
<u>URINAL</u> - IF PROVIDED, URINAL LIP SHALL BE MAX. 17" ABOVE FLOOR

WITH A CLEAR SPACE OF 30" WIDE X 52" IN FRONT OF URINAL.

GENERAL-PROVIDE SUFFICIENT SPACE IN THE BATHROOM FOR A WHEELCHAIR







SCUPPER DETAIL AT PARAPET WALL NOT TO SCALE

3 Scupper detail 1/2" = 1'-0"



S

CHIPMAN

nag Lag

Copyright 2025 Herman A. Scharhag Co., Architects All Rights Reserved. No part of these drawings may be reproduced in any form or by any electronic or mechanical means, without written permission.

J.Jeffry Schroeder Mo. Licence A-4226
Herman Scharhag Co., Arch. Cert. of Authority A-22

J.Jeffry Schroeder Mo. Licence A-4226
Herman Scharhag Co., Arch. Cert. of Authority A-22

OF
SCHROEDER

M B E R

A-4226

5/30/25

No. Description Date

Revision Schedule

Roof Plan

Project number 2491

Date 05.30.2025

A104

Scale As i

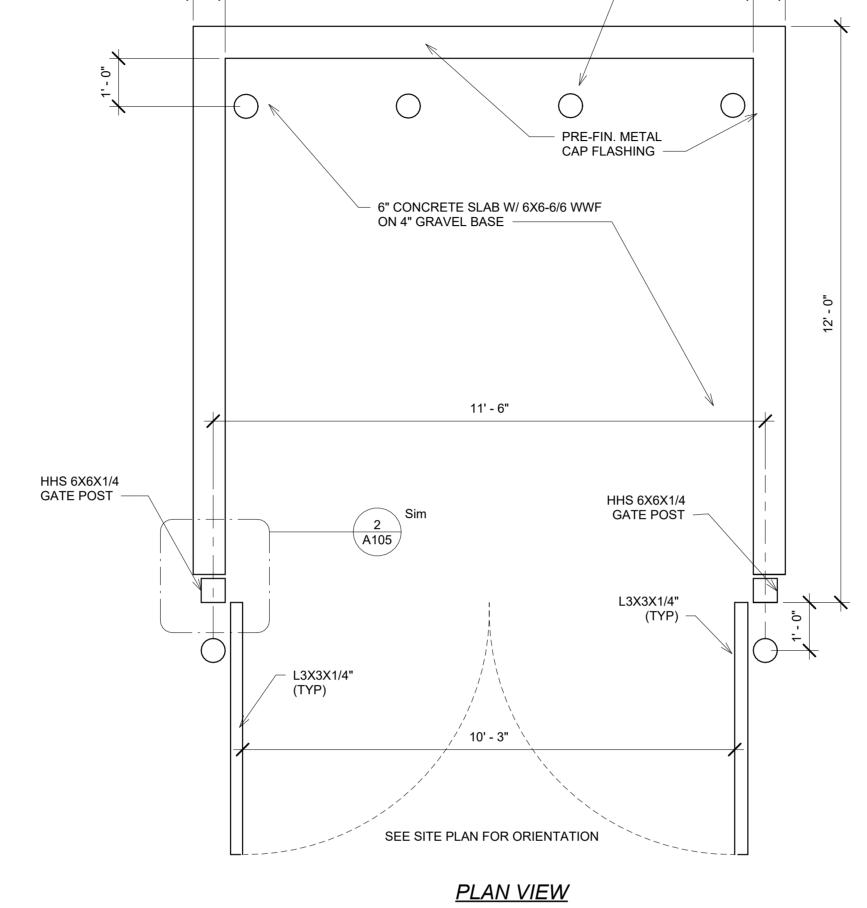
BUILDING

Trash Dumpster Details- 11x12

Project number 05.30.2025

A105





11' - 0"

- 6" CONCRETE FILLED PIPE BOLLARDS (4 EQUALLY SPACED)

STD HINGE

2 Hinge Detail Plan 12x11 1" = 1'-0"

L3X3X1/4 GATE FRAME

1" DIA. CANE BOLT OPEN POSITION

1/4" THICK PLATE (TYP)

1" DIA. CANE BOLT CLOSE POSITION

3 Trash Dumpster Detail - Hinge Detail 3/4" = 1'-0"

0' - 3"

HSS 6X6X1/4 GATE POST-PAINTED

L3X3X1/4 GATE FRAME

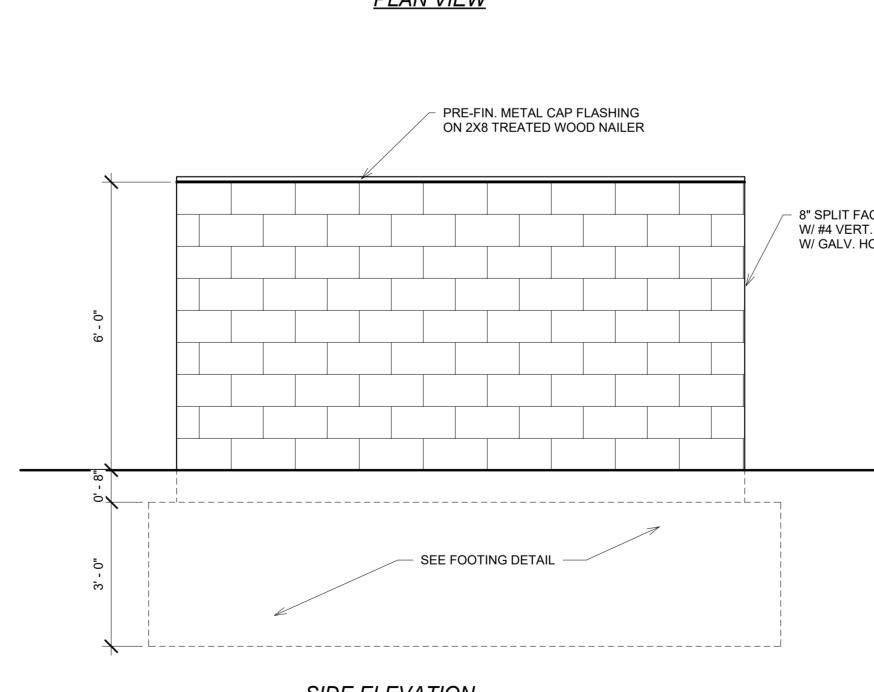
- 1" DIA. CANE BOLT OPEN POSITION

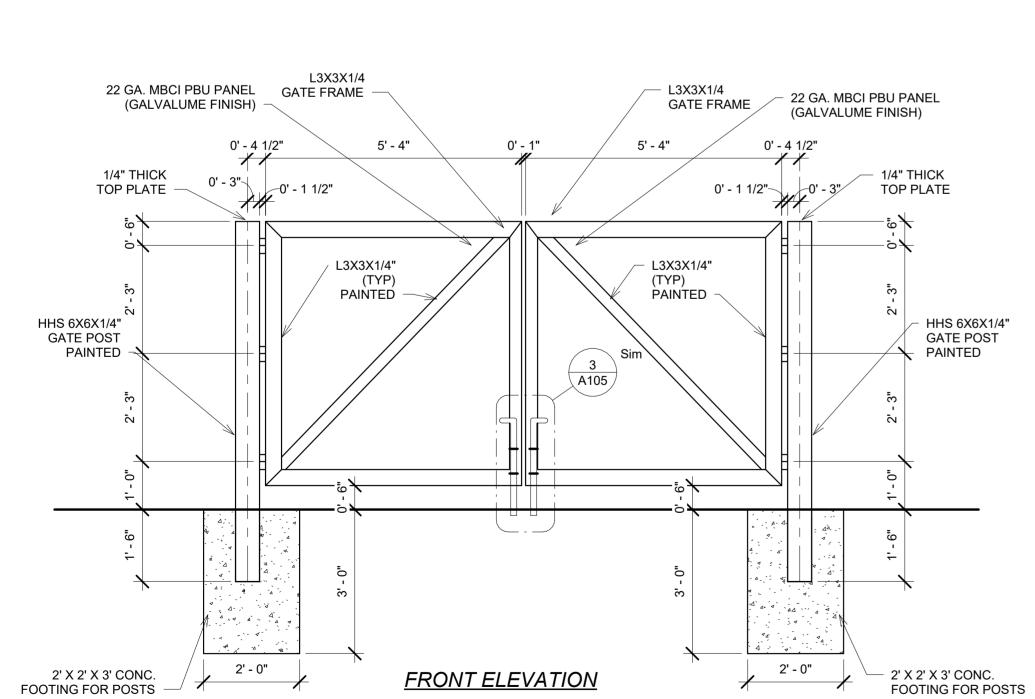
1/4" THICK PLATE (TYP)

1" DIA. CANE BOLT **CLOSE POSITION**

PIPE SLEEVE

L3X3X1/4 **GATE FRAME**



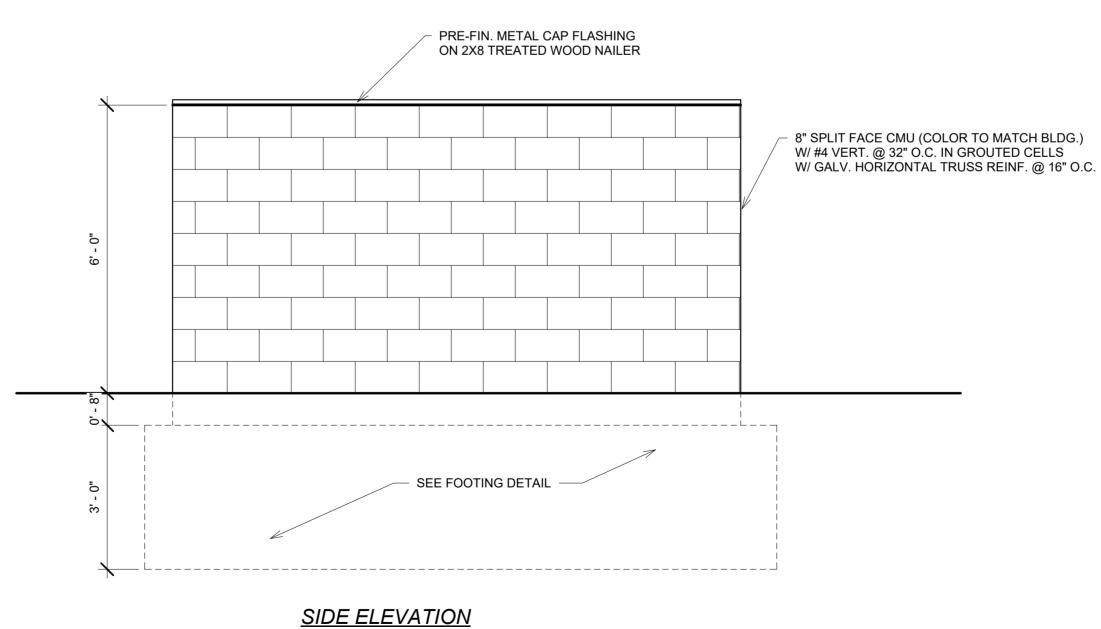


- #4 VERT. IN GROUNTED CELLS

#4 DOWEL (4'.6")

@ 32" O.C.

8" SPLIT FACE CMU W/ CLEAR SILICONE SEALER INSIDE AND OUT.



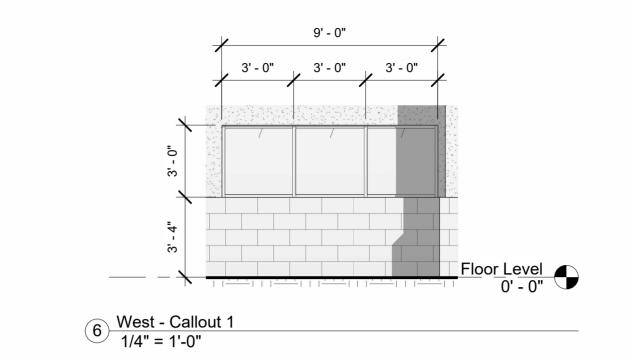
ALL STEEL TO BE PAINTED
ALL CMU TO BE RECEIVE CLEAR SILICONE SEALANT @ EXTERIOR

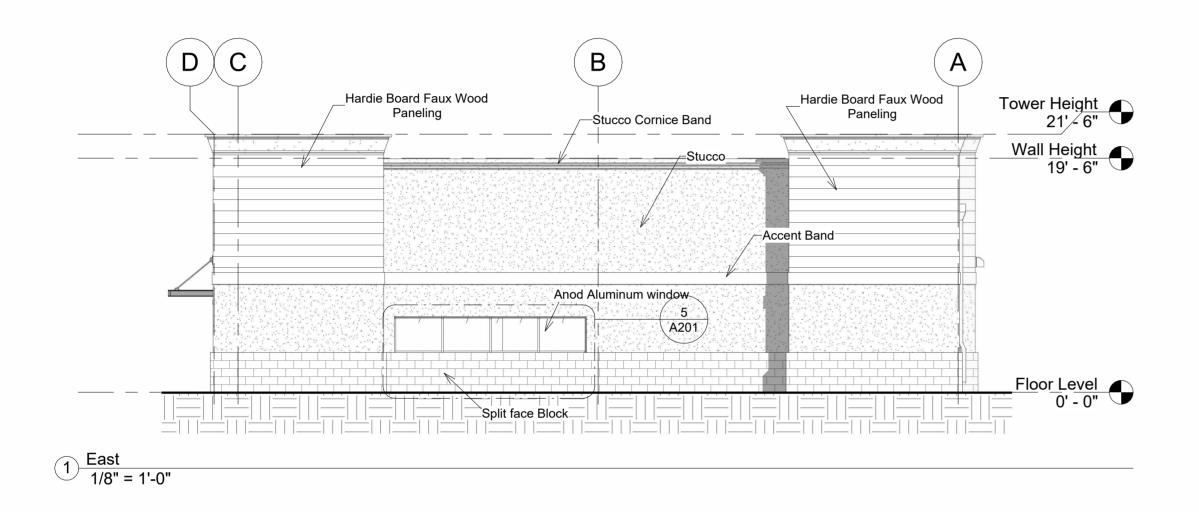
Trash Dumpster Detail 11x12
1/2" = 1'-0"

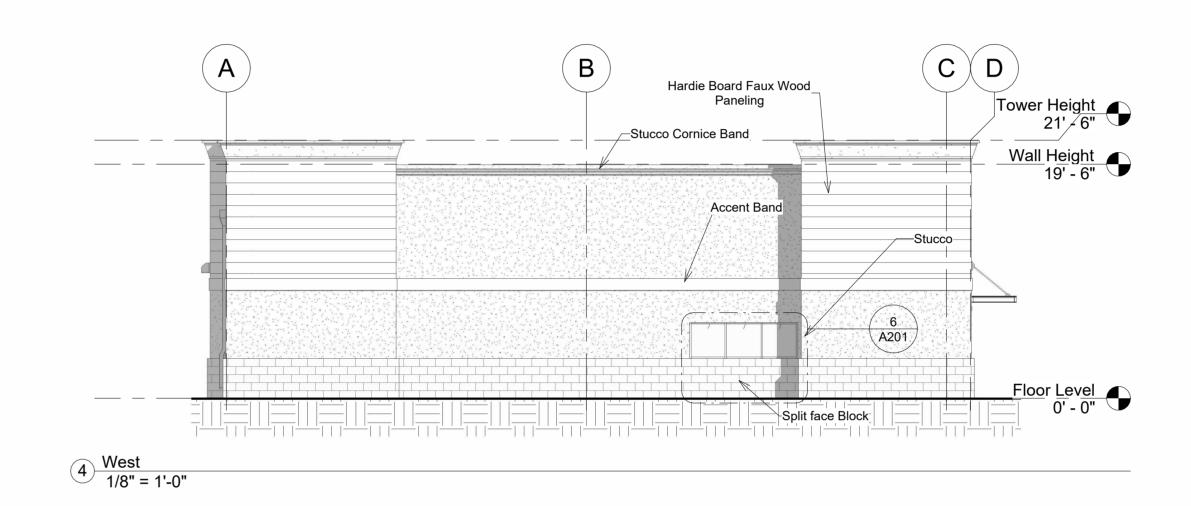
6" CONC. SLAB

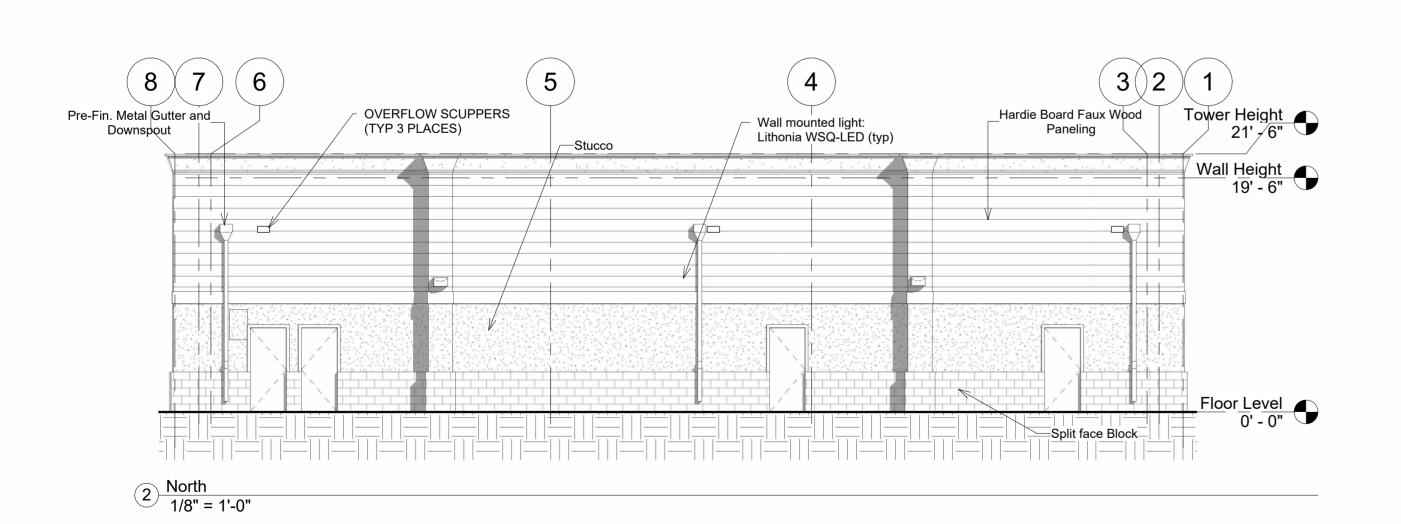
(4) #4'S CONT. W/ #4 TIES @ 32" O.C.

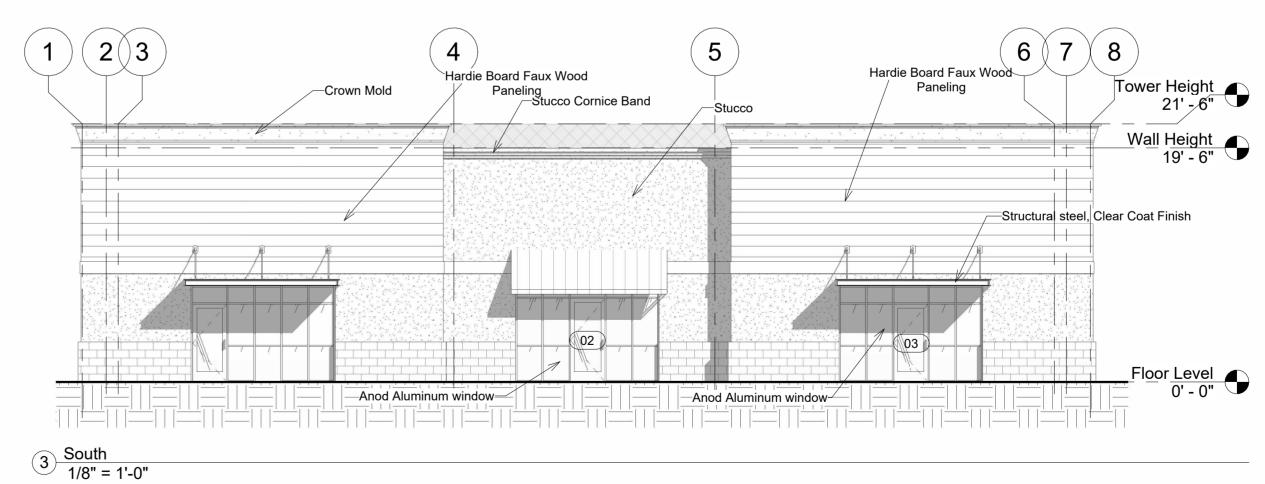
4 Trash Dumpster Detail Wall Section 3/4" = 1'-0"











PROVIDE CLEAR SILICONE SEALER FOR BRICK



Copyright 2025 Herman A. Scharhag Co., Architects All Rights Reserved. No part of these drawings may be reproduced in any form or by any electronic or mechanical means, without written permission.

ORCHARDS

CHIPMAN ROAD

NEW BUILDING FOR SUMMIT \geq 410 J.Jeffry Schroeder Mo. Licence A-4226 Herman Scharhag Co., Arch. Cert. of Authority A-22

Date Description

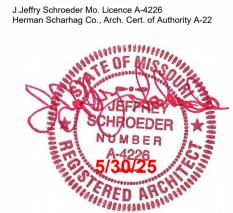
Revision Schedule

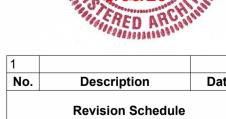
Elevations

2491 Project number 05.30.2025

A201

Scale As indicated





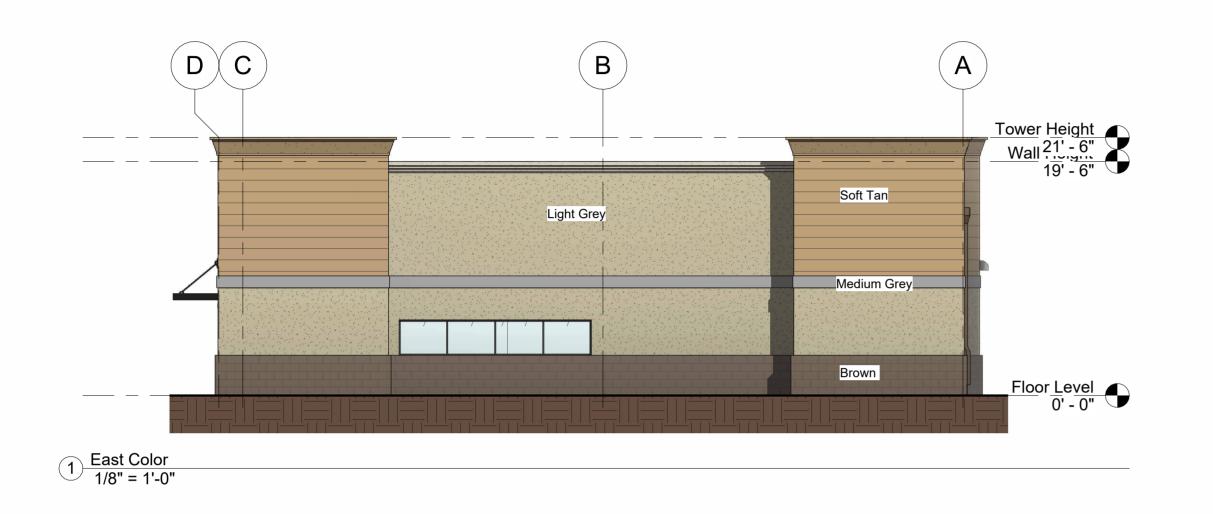


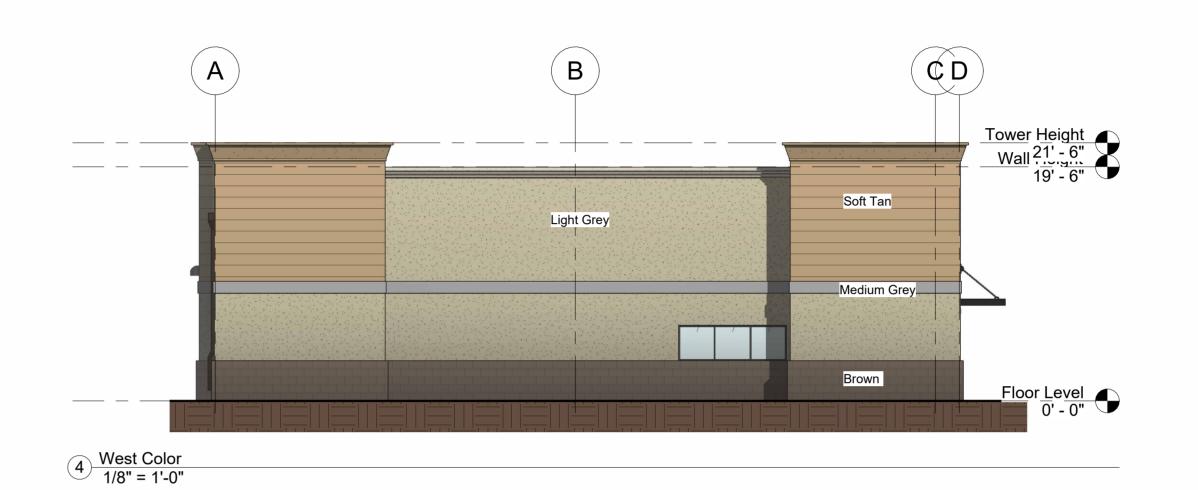
Elevations 2491 05.30.2025

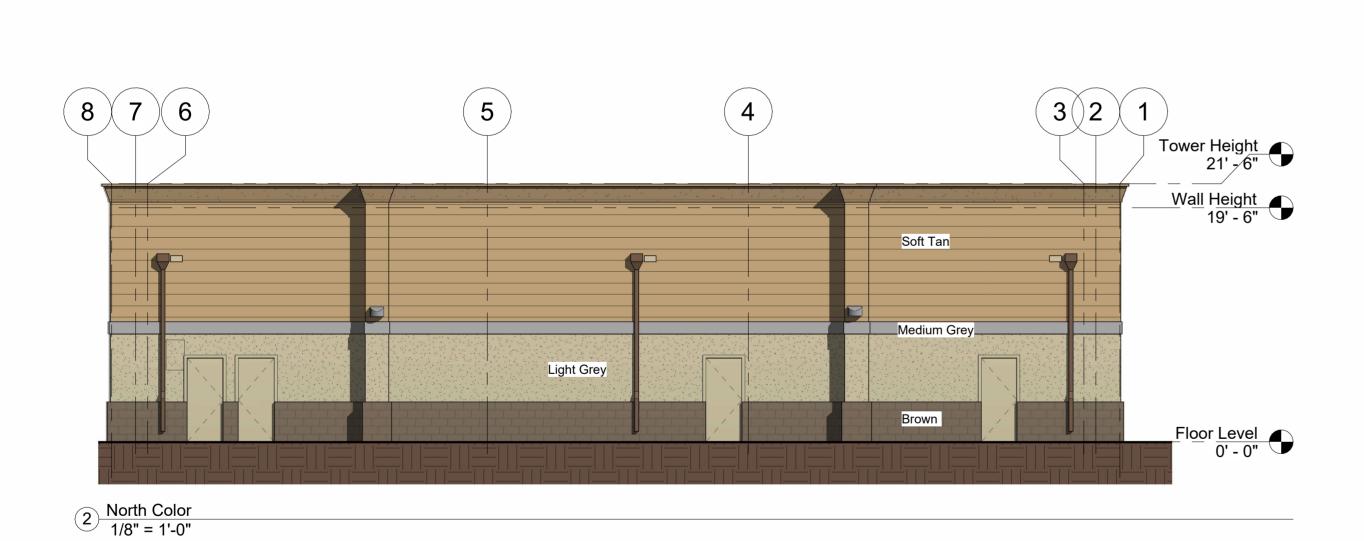
A202

Scale

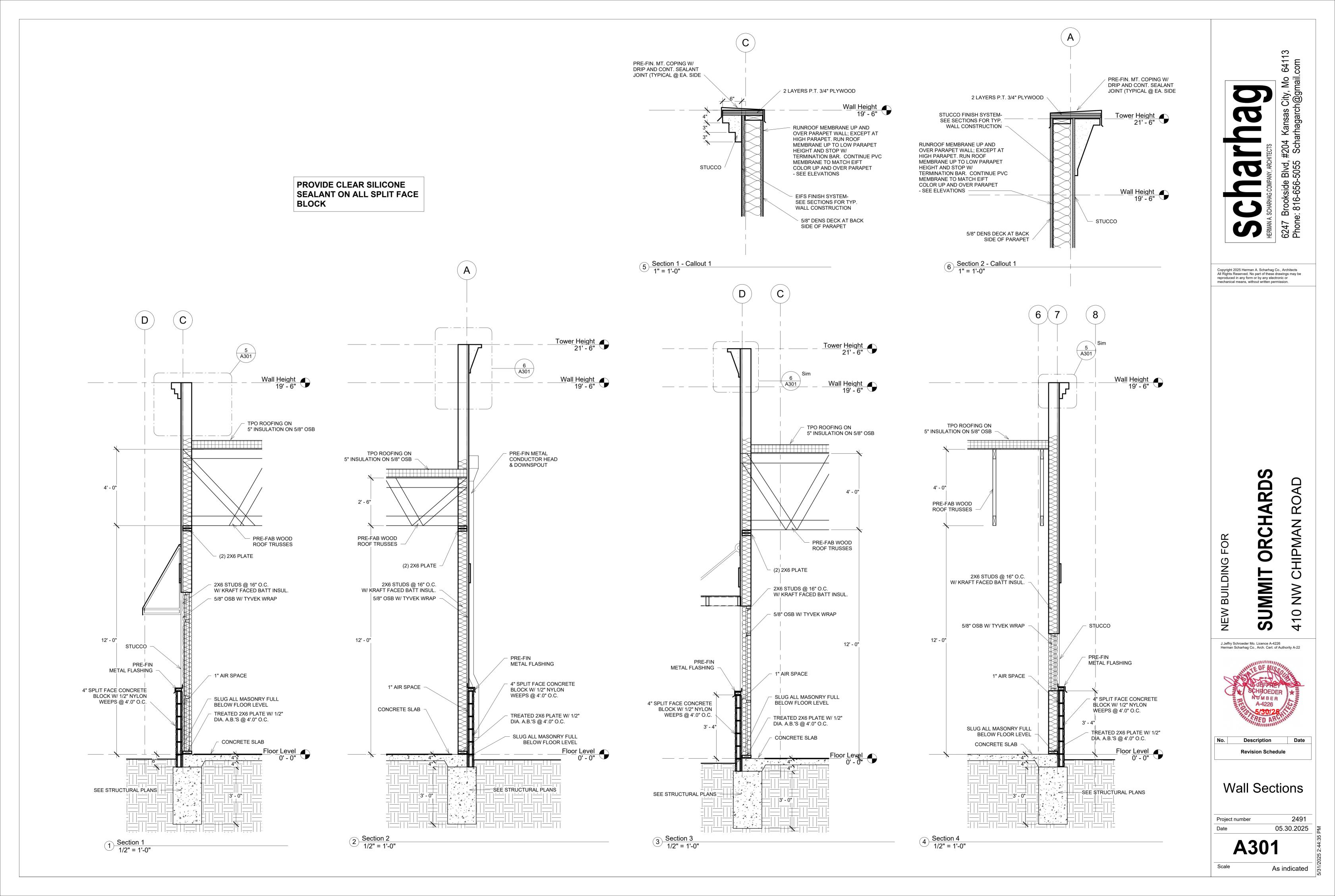
1/8" = 1'-0"











GENERAL NOTES

A. <u>GENERAL</u>

- 1. These notes shall be read in conjunction with the Specifications and the Drawings.
- In the event of a conflict, notify the Architect for clarification 2. Before executing anything herein shown, examine actual job conditions. Report any discrepancy, dimensional or otherwise, between architectural and structural Drawings and any other error, omission, or difficulty affecting the work to the Architect and to the Structural Engineer for review.
- 3. The Owner or his Representative reserves the right to inspect any material, fabrication, or workmanship at any time in field or shop for conformance to the Specifications and Drawings.
- All details and sections are intended to be typical and shall be construed to apply to any similar situation elsewhere, except where a different detail is shown.

B. <u>DESIGN</u>

- 1. Codes, specifications and standards (latest editions, U.N.O.) a. All design and construction shall conform to the International Building Code (currently adopted edition) as amended and adopted by the City of jurisdiction.
- b. All construction shall comply with the provisions of the following codes, specifications and standards, except where noted to the contrary on drawings and specifications or where more stringent requirements are
 - specified or shown: ACI 117 "Standard Specifications for Tolerance for Concrete Construction and Materials"
 - "Specifications for Structural Concrete for Buildings" ACI 318 "Building Code Requirements for Reinforced Concrete"
 - ACI 530 "Building Code Requirements for Masonry Structures" "Load and Resistance Factor Design (LRFD) Specification for AISC Structural Steel Buildings"
 - "Steel Deck Manual for Floor Decks and Roof Decks" AWS D1.1 "Structural Welding Code - Steel"
- 2. Design Loads: a. Roof - Snow (incl. rain on snow)
- Pf = 20 psf
- -Ce = 1.00-I = 1.00
- -Ct = 1.00b. Wind - Basic Wind Speed = 115 mph
- -I = 1.00- Wind Exposure B - Internal Pressure Coefficient = 0.3
- d. Floor Live Load Office 100 psf - Entrances (exits), stairs 125 psf Light Storage
- 250 psf - Heavy storage e. Canopy Roof Design Dead Loads: - Roof Panels - Steel Framing 5 psf - Roofing 5 psf
- 3. Foundations are designed for the following net allowable bearing capacities: a. Isolated Footings: b. Continuous Footings: 2 ksf
- 4. Foundations and retaining walls have been designed for an equivalent fluid pressure of 100 pcf.

C. <u>CONCRETE</u>

- 1. Concrete used in the Work shall have the following minimum 28-day ultimate compressive strengths: a. Columns 4000 psi
- b. Retaining walls, slabs on grade, and footings 4000 psi c. Framed slabs 4000 psi
- Air entrain all exterior concrete (admixture: ASTM C 260). Do not use calcium chloride admixtures under any circumstances. Reinforcing bars: ASTM A 615 Specifications, Grade 60, deformed. Bend
- bars cold.
- Welded wire fabric (WWF): ASTM A 185. 6. Maintain minimum concrete coverage for reinforcing as indicated, unless noted otherwise. Reference details 17/S1.0 and 18/S1.0 for placement of reinforcement
- in typical framed slabs. a. 3 in. clear where concrete is deposited directly against earth.
- b. 2 in. clear where concrete is exposed to earth or weather but poured against forms for bars larger than #5.
- c. 1-1/2 in. clear where concrete is exposed to earth or weather, but poured against forms for bars #5 or smaller.
- d. 3/4 in. clear for slabs and walls formed above grade not exposed to weather. e. 1-1/2 in. clear for beam and columns formed above grade and not exposed to
- 7. Lap all bars at splices in accordance with ACI 318, unless specifically noted otherwise.
- 8. Top and bottom bars in continuous grade beams shall run continuous through multiple spans, where possible. Otherwise, top bars shall splice within the middle 1/3 span and bottom bars shall splice over supports. 9. Pour columns, walls, and pilasters to be monolithic.
- 10. All concrete walls shall be properly braced and held in line until supporting slabs or floors are in place.
- 11. All bar steel and WWF shall be properly supported and held accurately in place as recommended by the Concrete Reinforcing Steel Institute, except that maximum spacing of any bar or mesh support shall be 3 feet.
 - a. Support top slab bars with continuous high chairs. b. Support beam bars on heavy beam bolsters.
 - c. Support footing and grade beam bottom reinforcing on concrete bricks, concrete blocks, or mounds of poured concrete.
 - d. Support WWF in slab-on-grade properly at the mid-depth of the slab. Hooking and pulling up mesh after concrete has started to take its initial set is e. Supports for reinforcement for exposed-to-view concrete surfaces shall have
- legs that are in contact with forms plastic protected (CRSI, Class 1) or stainless steel (CRSI, Class 2).
- 12. Where slabs-on-grade make an abrupt change in direction, such as at doors and corners or ends of walls, provide 2-#4 by 4 feet across the reentrant corner.
- 13. Provide the following minimum concrete cover for fire rating: Interior load bearing walls and columns 2 hrs 1 1/2" cover Concrete beams 2 hrs 1/2" cover Concrete joists 2 hrs 1 1/2" cover Floor slab 2 hrs 3/4" cover

D. <u>MASONRY</u>

- Concrete masonry units (CMU): ASTM C 90, lightweight units (105 pcf or less),
- with the minimum net area compressive strength of 2200 psi. Mortar: Portland cement and lime, and proportioned in accordance with ASTM C 270 for the following types:
 - Type N for all walls above grade Type S - for all walls below grade, in contact with earth
- 3. f'm = 1500 psi. Provide mortar bed on webs between grouted cells and hollow cells. Grout: ASTM C 476, 3000 psi minimum 28-day compressive strength.
- Grout all vertical cells and spaces containing reinforcing bars (as detailed) bond beams, and lintels. 7. Vertically reinforce walls as shown on drawings. However, if not indicated on the drawing, reinforce wall as indicated below, at each corner, at ends of 48 inches
 - horizontally throughout the wall, of walls, each side of control joints and openings, and at a maximum spacing unless noted otherwise. 8" or 6" wall 12" or 10" wall

- Horizontally provide continuous bond beam with 2 #5 minimum for 12" or 10" CMU; 1 #5 minimum for 8" or 6" CMU at floor/roof, near midheight (10'-0 maximum spacing) and top of wall, unless noted otherwise. Provide #5 corner bar for each horizontal bond beam corners.
- 9. Place reinforcement prior to grouting. Hold vertical reinforcement in position with rebar positioner.
- 10. Provide horizontal joint reinforcement as indicated on the drawings and specifications, at a minimum provide at 16"o.c.
- 11. Lap joint reinforcement a minimum of 12 in. 12. In no case shall shores and forms at lintels be removed until it is certain that the masonry has hardened sufficiently to carry its own weight and all other
- reasonable temporary loads that may be placed on it during construction. 13. Do not wet concrete masonry units.
- 14. Do not use calcium chloride.
- 15. Do not use masonry cement. 16. Keep masonry walls shored during construction until the roof deck and floor slabs

E. <u>STEEL</u>

1. Qualifications for Welding Work:

are in place to provide lateral stability.

- a. Perform all welding by a certified welder.
- b. Qualify welding processes and welding operators in accordance with AWS "Standard Qualification Procedure". c. Provide certifications that welders to be employed in work have satisfactorily
- passed AWS qualification tests within previous 12 months. d. If recertification of welders is required, retesting will be
- Contractor's responsibility. 2. Erector must examine areas and conditions under which structural steel work is to be installed, and notify Contractor in writing of conditions detrimental to proper and timely completion of Work.Do not proceed with work until unsatisfactory
- conditions have been corrected in a manner acceptable to the Erector. Submit shop drawings prepared under supervision of a registered professional engineer,including complete details and schedules for fabrication and assembly of structural steel members procedures and diagrams. Include details of cuts, connections, camber, holes, and other pertinent data. Indicate welds by standard AWS symbols, and show size, length, and type of each weld. Show size and type of
- bolt for all bolted connections. Provide setting drawings, templates, and directions for installation of anchor bolts and other anchorages to be installed by others.
- Paragraph 4.2.1 of the (AISC) "Code of Standard Practice for Steel Buildings and Bridges" is hereby modified by deletion of the following sentence: "This approval constitutes the owner's acceptance of all responsibility for the design adequacy of any detail configuration of connections developed by the fabricator as a part of his preparation of these shop drawings."
- 6. If required cut edges of backing strips, extension bars, or run-off plates flush with edge of abutting parts.
- Where framing members and/or connections for steel stairs are not indicated on either structural or architectural drawings, Design the members and/or connections and submit calculations or supporting data to verify their adequacy. A live load of 125 psf shall be used in the design. Fully detail stair connections, including attachments to supporting members.
- 8. Structural steel: ASTM A 572 wide flange sections, ASTM A 36 angles, channels, and plates, ASTM A 501 - pipes, and ASTM A 500, Grade B - tubes.
- 9. High Strength Bolts (steel-to-steel connections): ASTM A 325N, with twist-off load 10. Anchor bolts: ASTM A 307, sizes indicated are based on preliminary reactions and
- 11. Welded connections: AWS Standards and Specifications using E70xx electrodes,
- unless noted otherwise.
- 12. Expansion Bolts: Stud type expansion anchors...(Hilti Kwik Bolt II).
- 13. Injection Adhesive: Hilti Dowelling Anchor (HY-150); Rawl/Sika Foil-Fast; Ramset/Redhead Epcon Ceramic 6.
- 14. Drill holes for anchors using a bit incapable of cutting steel. Do not cut existing concrete reinforcing steel. If, while drilling, reinforcing steel is encountered, notify the Structural Engineer for approval of new location. Cleaned and patch the abandoned hole grout.
- 15. Ends of beams which have copes to the extent that allowable shear or bending stress of steel is exceeded shall have web plates of sufficient size welded to the
- beam to reduce such stresses. 16. Provide holes required for securing other work to structural steel framing, and for passage of other work through steel framing members, as shown on final shop drawings.
- 17. Do not flame cut holes or enlarge holes by burning.

each side, u.n.o.

- 18. Set structural frames accurately to lines and elevations indicated. Align and adjust various members forming apart of a complete frame or structure before permanently fastening. Perform necessary adjustments to compensate for discrepancies in elevations and alignment.
- 19. Provide temporary shoring and bracing members with connections of sufficient strength to bear imposed loads. Remove temporary members and connections when permanent members are in place and final connections are made. Provide
- temporary guy line to achieve proper alignment of structure as erection proceeds. 20. Clean bearing surfaces of bond-reducing materials and roughen to improve bond to surfaces. Clean bottom surface of base plates. 21. Grout plates are prohibited. Tighten anchor bolts after supported members have
- been positioned and plumbed. Do not remove wedges or shims. but if protruding, cut off flush with edge of base plate prior to packing with grout. 22. Nonshrink grout: CRD-621 Type A, premixed, nonmetallic, noncorrosive,
- nonstaining. 23. Provide open-web joists (K-series), longspan joists (LH-series), and joist girders as indicated on the Drawings and in accordance with specifications of SJI.
- a. Weld K-series joists to supporting steel with 1/8 in. fillet welds in. long, each b. Weld LH-series joists to supporting steel with 1/4 in. fillet welds 2 in. long,
- c. Bolt joists at or nearest a column to supporting steel in conformance with O.S.H.A. with erection bolts. d. Provide continuous horizontal bridging for joists (u.n.o.) and bottom chord braces for joist girders as required by SJI, except where the net uplift loading
- requires additional bridging. e. Provide horizontal bridging to resist 10psf uplift for main roof at service building and main building penthouse.
- f. Extend bottom cord to brace beam bottom flange at mid-span of beams in 24. Form deck: 9/16 in.galvanized deck with the following minimum properties:
- Minimum thickness 0.0295 Moment of Inertia 0.024 in ^4 Section Modulus 0.070 in ^3
- 25. Composite floor deck: 1-1/2 in. galvanized deck with the following minimum properties: Minimum thickness 0.0358
- Moment of Inertia 0.195 in ^4 Section Modulus 0.240 in ^3
- 26. Roof deck: 1-1/2" painted wide rib deck with the following minimum properties: Minimum thickness 0.358 Moment of Inertia 0.212 in ^4

ends of beams, around openings, etc. Except as noted otherwise.

29. Provide 1,500 # misc. steel for use by Engineer, as needed.

Section Modulus 0.234 in ^3 27. Roof deck shall be welded to supports to resist a net uplift of 20 PSF. 28. Provide 2-1/2" x 2-1/2" x 1/4" angles as required to support deck at columns,

E. EPOXY AND MECHANICAL ANCHORS

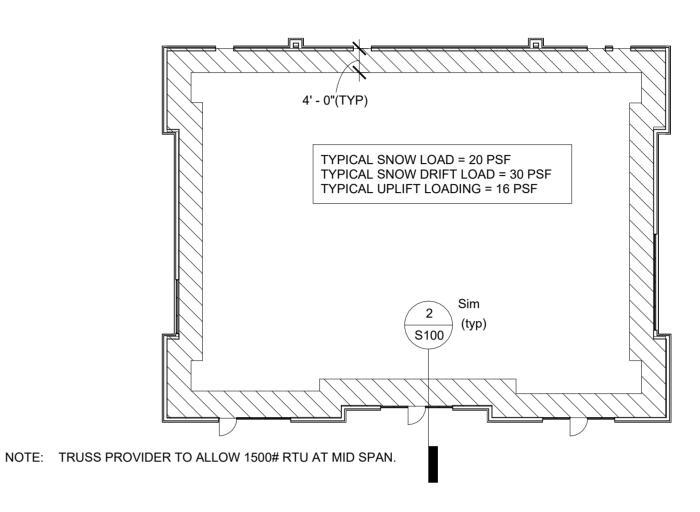
- 1. For concrete, grouted CMU, and solid masonry use Hilti HIT HY 150 two-part hybrid adhesive. For hollow CMU and masonry use Hilti HIT HY20 two-part hybrid adhesive with screen tubes. Equivalent adhesives may be used with prior written approval by the Structural Engineer.
- 2. Thoroughly clean holes with nylon brush and pressurized air per manufacturers
- instructions. 3. Drill holes to the embedment depths indicated on the drawings. If no depths are
- indicated, use 9 bolt or bar diameters with HY150 and 12 bolt diameters for HY 20. 4. "Wedge" or "Expansion" anchors shall be Hilti Kwik bolt II expansion anchors. Embed anchor 7 bolt diameters unless noted otherwise. Equivalent anchors may be substituted with prior written approval of the Structural Engineer.

F. METAL STUDS

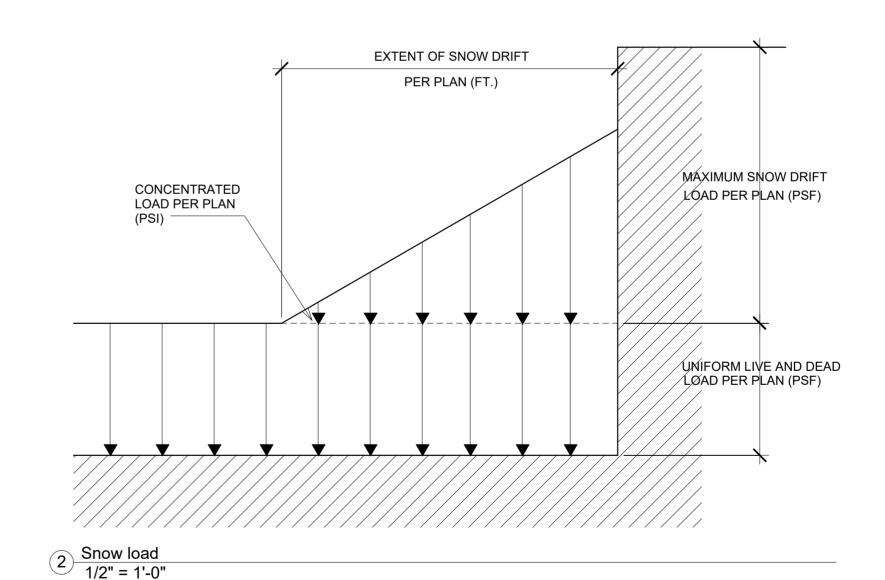
1. Install cold-formed metal studs per drawings and manufacturer's recommendations. See Structural Plan for sizes and gauges.

G. CONSTRUCTION

- 1. See architectural and mechanical requirements for embedded items not shown
- herein and to verify size and location of all openings.
- Coordinate the sizes and locations of all miscellaneous metal items required for mechanical and electrical.
- Requirements for embedded items, sleeves, block outs, duct openings, etc., in the concrete frame shall be submitted (plans and details) to the structural engineer for approval at least two weeks prior to the proposed date of casting concrete. No such items, other than those shown, shall be provided in the structure without the approval of the structural engineer.
- Provide adequate shoring or bracing during construction to resist forces such as wind and unbalanced loading due to construction.
- Field verify the location and depth (or height) of all utilities prior to beginning construction in order to provide adequate clearances and to insure noninterruption of service.



3 Snow Load Plan / 1/16" = 1'-0"





13

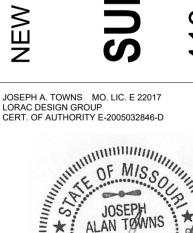
641 com

R **CHIPMAN**

 \Box

0

0

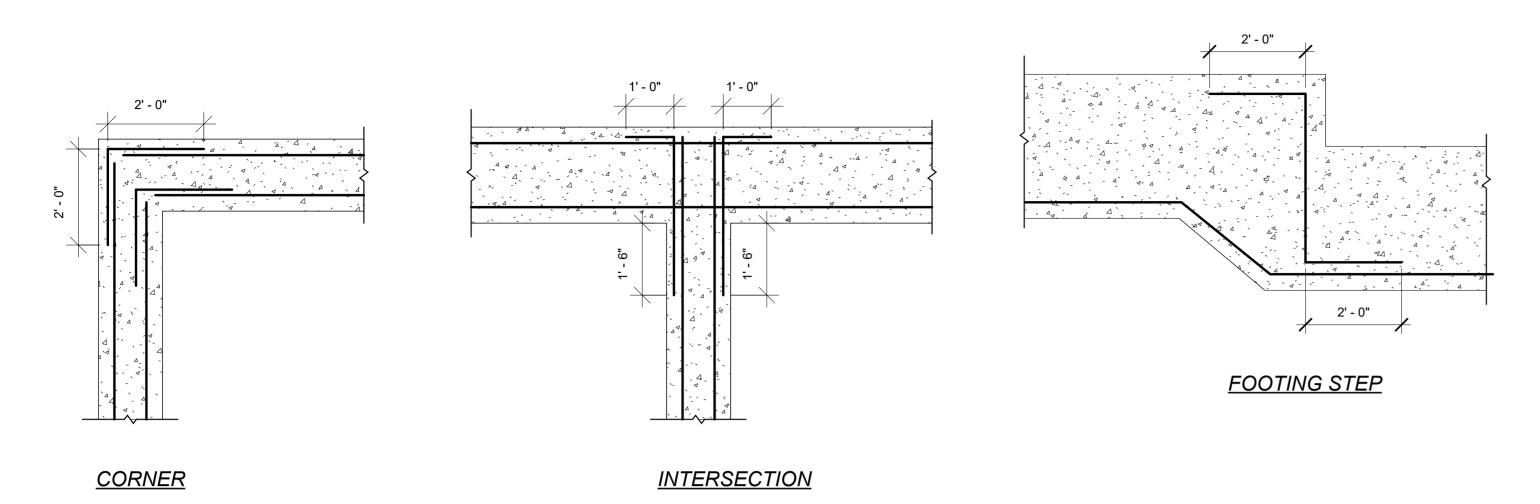


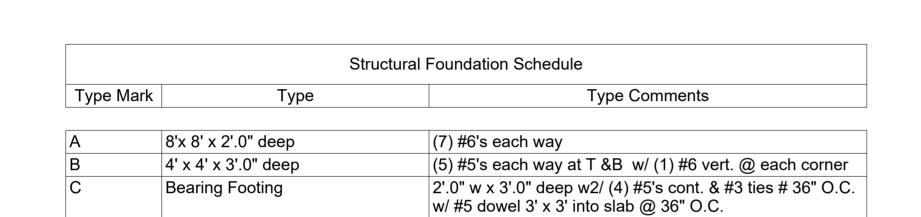
BUILDING

Description **Revision Schedule**

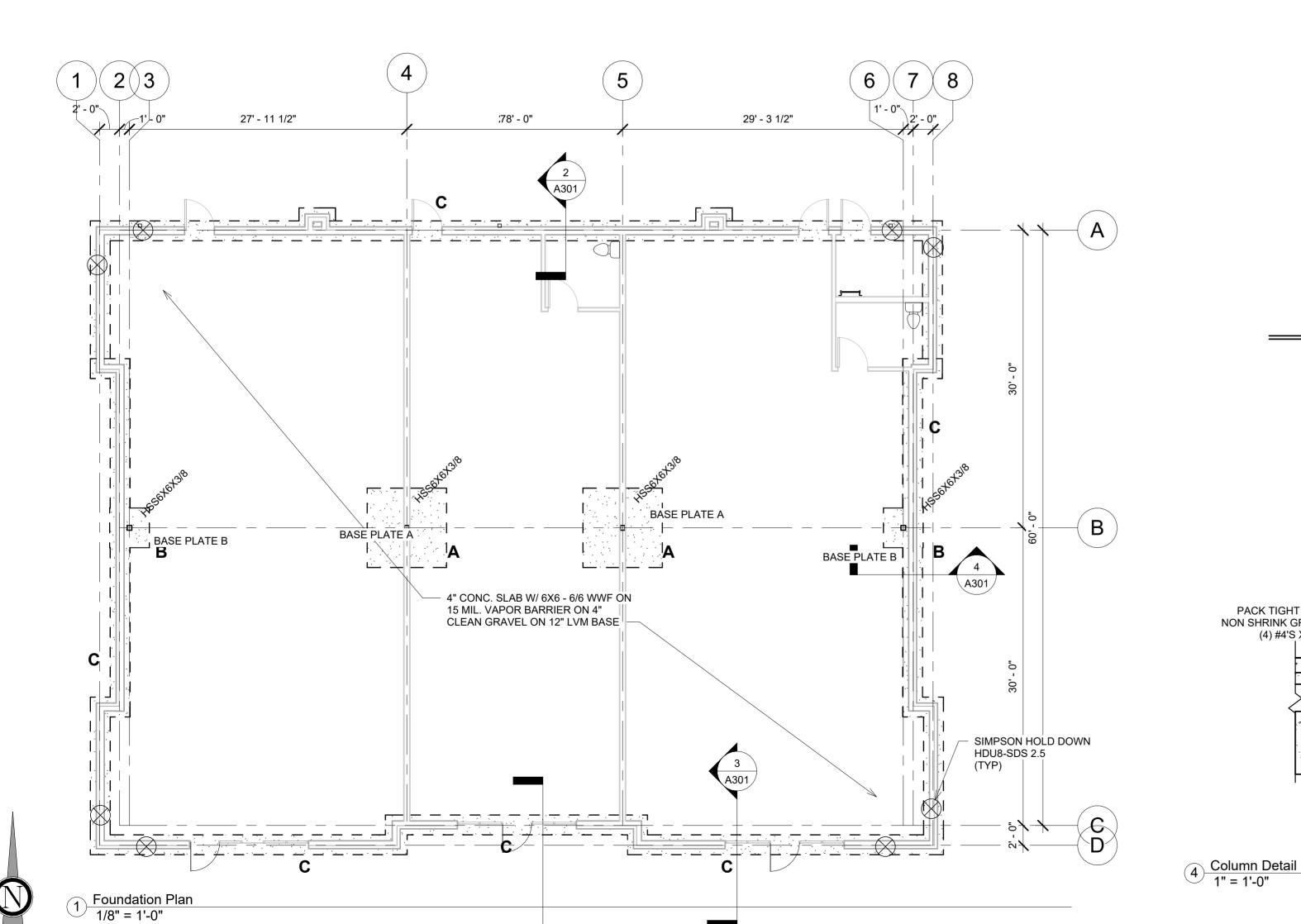
Structural Notes

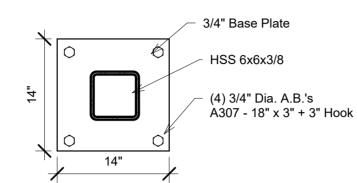
2491 Project number 05.30.2025



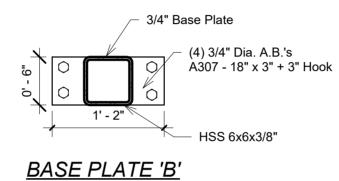


5 Typical Footing Detail 1/2" = 1'-0"



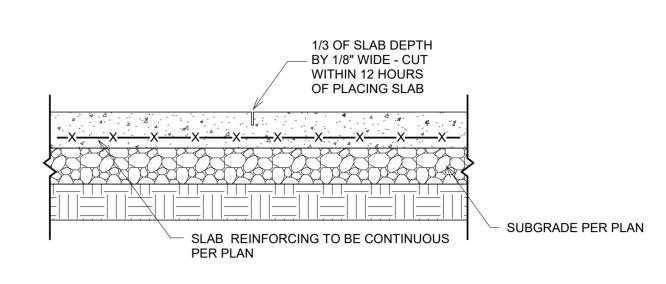


BASE PLATE 'A'

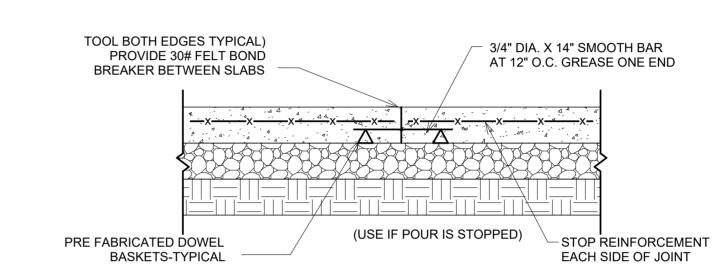


VARIES-SEE FOUNDATION PLAN

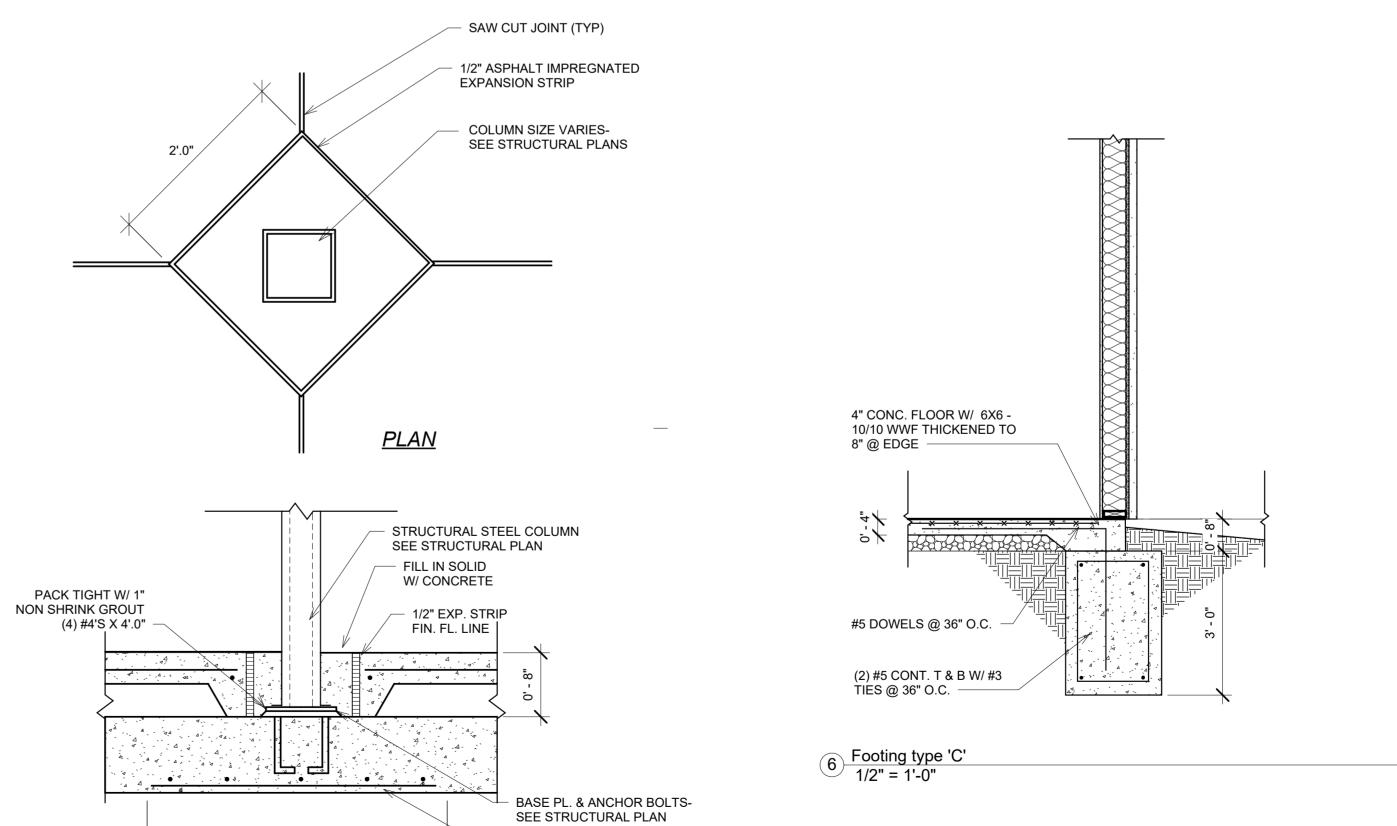
2 Base Plate Details
1" = 1'-0"



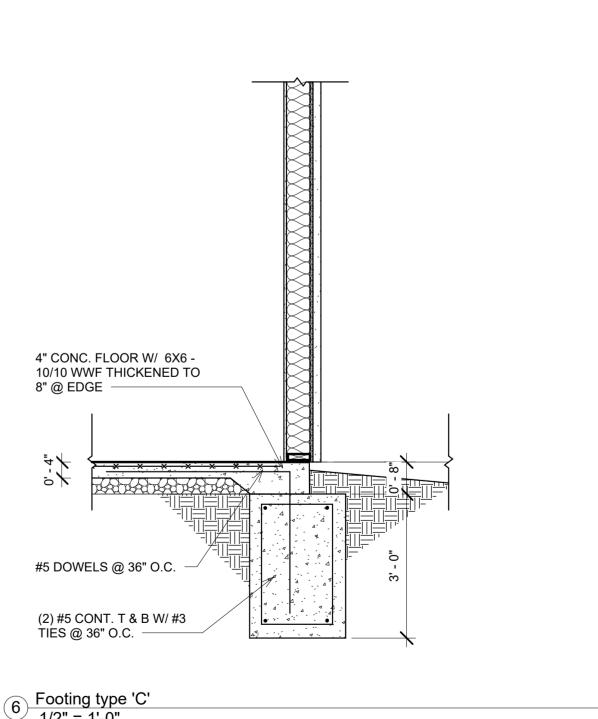
CONTROL JOINT DETAIL



3 Sawcut Floor Slab
3/4" = 1'-0"



SEE FOUNDATION PLAN FOR REINFORCING



Mag Jar

6247 Brookside Blvd, #204 Kansas City, Mo 64113 Phone: 816-656-5055 Scharhagarch@gmail.com

410 JOSEPH A. TOWNS MO. LIC. E 22017 LORAC DESIGN GROUP CERT. OF AUTHORITY E-2005032846-D Date Description **Revision Schedule**

S

ORCHARD

CHIPMAN

Foundation

2491 Project number 05.30.2025

LINTEL SCHEDULE

LINTEL TYPE 'A' LINTEL TYPE 'B'

PROVIDE (4) 2X6'S BEARING AT EACH END OF LINTELS

THREE 2X12'S

28' - 11 1/2"

W21X44

1 Roof Framing Plan 1/8" = 1'-0"

STRUCTURAL NOTES

- TRUSS MANUFACTURER TO FURNISH ALL HOLD DOWNS AND CLIPS FOR WOOD TRUSSES PROVIDE HEAVY DUTY CLIPS AT ALL PANEL EDGES PERPENDICULAR TO TRUSSES AT 2'-0" O.C. STAGGER END OF PANELS AND GAP ALL
- PANELS 1/16" AT ALL EDGES PROVIDE SIMPSON H1 HOLD DOWN CLIPS FOR **EACH TRUSS**
- ROOF SHEATHING TO BE 5/8" EXTERIOR APA PLYWOOD, NAILED WITH 10d NAILS AT 6" O.C. ALL AROUND PLYWOOD EDGES (BLOCKING AS REQUIRED) AND ALL AROUND ROOF PERIMETER WITH 10d NAILS AT 6" O.C. AT ALL INTERMEDIATE SUPPORTS
- BRACING DESIGN BY TRUSS MANUFACTURER TRUSS MANUFACTURER TO PROVIDE DESIGN DRAWINGS AND CALCULATIONS AND LAYOUT PLAN, SEALED BY REGISTERED ENGINEER, FOR
- REVIEW, AND FOR APPROVAL BY THE CITY WALL SHEATHING TO BE 5/8" OSB, NAILED WITH 8d NAILS AT 6" O.C. AT ALL STUDS AND FULL PERIMETER OF EACH PLYWOOD SHEET (BLOCKING AS REQUIRED) AND ALL AROUND PERIMETER OF WALL AND AROUND ALL **OPENINGS**
- SEE ARCHITECTURAL SHEETS FOR ALL OPENING
- HEIGHTS AND WIDTHS ALL DOOR AND WINDOW OPENINGS TO BE
- SUPPORTED BY MIN. (3) 2X12 LINTEL ABOVE OPENING, BEARING ON (2) STUDS AT EACH SIDE ALL STEEL LINTEL BEAMS TO BE SUPPORTED BY

W21X44

(4) 2X STUDS AT EACH END

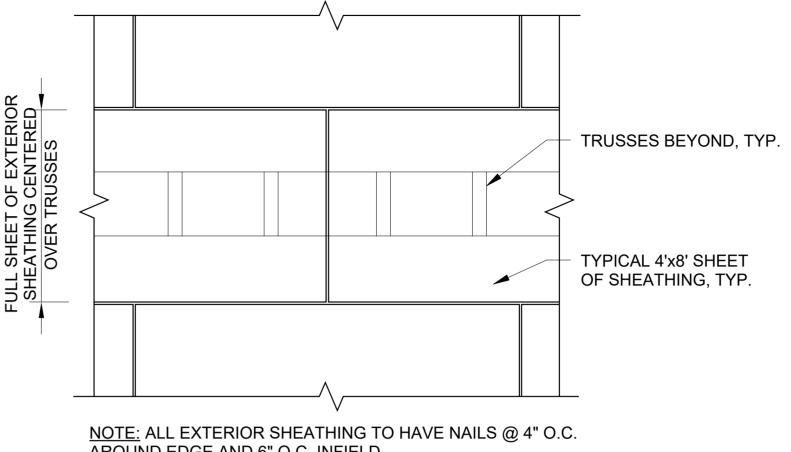
80' - 0"

PRE-FAB WOOD ROOF TRUSSES @ 2'.0" O.C. W/ 5/8" OSB DECK

W21X44

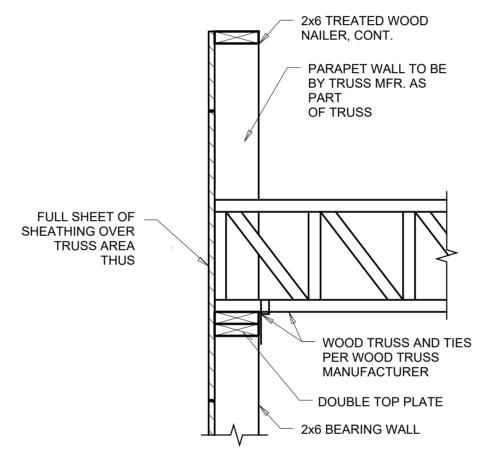
PRE-FAB WOOD ROOF TRUSSES @ 2'.0" O.C. W/ 5/8" OSB DECK

LINTEL TYPE 'B' THIS SIDE



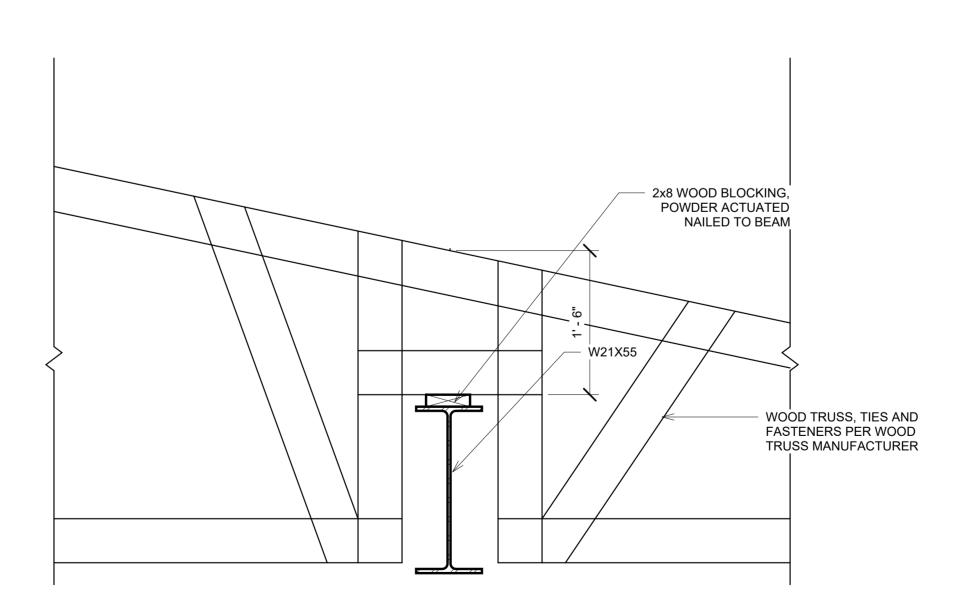
AROUND EDGE AND 6" O.C. INFIELD.

5 Typical Exterior sheathing wood 1/2" = 1'-0"



NOTE: FOR TYPICAL SHEATHING DETAIL RE: 1/S001

3 typical section at truss bearing wood 1" = 1'-0"



NOTE: TRUSS ATTACHMENT TO BE SIMPSON H1 CLIPS

typical section at truss bearing 2 wood
1" = 1'-0"



64113 .com

6247 Brookside Blvd, Phone: 816-656-5055

S

ORCHARD **CHIPMAN** 410

JOSEPH A. TOWNS MO. LIC. E 22017 LORAC DESIGN GROUP CERT. OF AUTHORITY E-2005032846-D

Description

Revision Schedule

Framing

Project number

05.30.2025

	LECEND					
SPECIFICATIONS		LEGEND				
GENERAL 1. FOR ITEMS NOT COVERED BY THIS SPECIFICATION, REFER TO LATEST	SYMBOL	DESCRIPTION				
VERSION OF MASTERSPEC FOR REQUIREMENTS.	///////////////////////////////////////	DEMOLITION				
COORDINATION OF WORK: THE MECHANICAL CONTRACTOR SHALL PLAN ALL WORK SUCH THAT IT PROCEEDS WITH A MINIMUM OF INTERFERENCE		THROTTLING VALVE				
WITH OTHER TRADES. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE THE INSTALLATION OF HIS WORK WITH LIGHTING PLANS	. ————————————————————————————————————	BALANCING VALVE				
REFLECTED CEILING PLANS, STRUCTURAL, AND ALL OTHER TRADES. THE INSTALLATION OF ALL EQUIPMENT, DEVICES AND MATERIALS REQUIRING		AUTOMATIC FLOW CONTROL VALVE				
ACCESS SHALL BE MADE IN SUCH A MANNER AS TO MAKE THE EQUIPMENT DEVICES AND MATERIALS READILY ACCESSIBLE FOR OPERATION		ELBOW DOWN				
MAINTENANCE AND REPAIRS.	. — ю	ELBOW UP				
. SUBSTITUTIONS FOR MATERIAL SPECIFIED: MATERIAL AND ITEMS OF EQUIPMENT FURNISHED MUST MEET THE REQUIREMENTS OF THE	·	TEE DOWN				
DRAWINGS AND SPECIFICATIONS AS TO QUALITY, PERFORMANCE SUITABILITY, AND APPEARANCE. THIS IS AN "OR EQUAL" SPECIFICATION	· 	TEE UP				
ALTERNATE MATERIALS AND EQUIPMENT MAY BE SUPPLIED SIMILAR OF EQUAL TO THE PRODUCT OF THE MANUFACTURER SPECIFIED, GIVEN PRIOR APPROVAL OF THE DESIGN ENGINEER, AND SHALL BE SUPPLIED AT NO ADDITIONAL COST.	1 1	ELBOW				
. ALL MATERIALS SHALL BE NEW, UNUSED, AND THE BEST OF THEIR		UNION				
RESPECTIVE KINDS AND FREE OF DEFECTS. DRAWINGS ARE DIAGRAMMATIC ONLY, INTENDING TO SHOW GENERAL		CAP				
ROUTING AND LOCATIONS OF THE WORK AND ARE NOT INTENDED TO BE RIGID IN SPECIFIC DETAIL.		FLOOR CLEANOUT				
. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXAMINING THE SITE IN	I @	GRADE CLEANOUT				
RELATION TO THEIR WORK PRIOR TO INSTALLATION. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR LACK OF COORDINATION DURING	•	FLOOR DRAIN/SINK				
THE COURSE OF THIS CONTRACT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL	LWCO	WALL CLEAN OUT				
MEASUREMENTS AT THE SITE.		COLD WATER				
 ALL WORK, INCLUDING INSIDE OF HVAC DUCTS, AND EQUIPMENT WITHIN THE CONTRACT AREA FURNISHED AND INSTALLED UNDER THE CONTRACT 		HOT WATER				
SHALL BE CLEANED TO THE SATISIFACTION OF THE OWNER PRIOR TO TURNING OVER TO THE OWNER.		WASTE PIPING				
CONNECT NEW WORK TO EXISTING IN A NEAT AND WORKMAN LIKE		VENT				
MANNER. D. PROVIDE ALL NECESSARY FLASHING AND COUNTER FLASHING TO	→	POINT OF CONNECTION NEW TO EXISTING				
MAINTAIN THE WATERPROOFING INTEGRITY OF THE BUILDING AS REQUIRED BY THE INSTALLATION OR REMOVAL OF PIPES, DUCTS CONDUIT, AND EQUIPMENT.	; 	SPIN-IN FITTING WITH BALANCING DAMPER (ROUND TO RECTANGULAR)				
 NO PIPING SHALL BE INSTALLED ABOVE ELECTRICAL PANELS. CONTRACTOR TO TEST WATER PRESSURE ON SITE. PROVIDE PRESSURE 	. }	Britis Et (NOOND TO NEOTHINGOERIN)				
REDUCING VALVE ON WATER SERVICE IF PRESSURE IS ABOVE 80 PSI. IF PRESSURE IS BELOW 40 PSI, CONSULT WITH ENGINEER BEFORE CONTINUING WORK.		FLEXIBLE DUCTWORK				
MECHANICAL 3. GENERAL:		MANUAL BALANCING DAMPER				
A. CODES AND PERMITS: ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL AND STATE CODES AND UTILITY COMPANY REGULATIONS ALL FEES AND PERMITS SHALL BE PAID FOR BY THE CONTRACTOR. B. WORKMANSHIP: ALL MATERIALS SHALL BE INSTALLED PER	12×12	RECTANGULAR DUCT DIMENSIONS (1ST FIGURE - SIDE SHOWN)				
MANUFACTURERS RECOMMENDATIONS AND IN ACCORDANCE WITH ACCEPTED GOOD PRACTICE OF THE INDUSTRY. C. PROVIDE ACCESS PANELS IN HARD CEILINGS BELOW EQUIPMENT THAT	12"\$	ROUND DUCT DIMENSIONS				
REQUIRES ACCESS. D. FIELD VERIFY AVAILABLE SPACE ABOVE CEILING BEFORE FABRICATION AND INSTALLATION OF DUCTWORK.		RETURN/EXHAUST/OUTSIDE AIR				
 DUCTWORK: A. MATERIAL: ALL DUCTS SHALL BE GALVANIZED STEEL. DUCT GAUGE AND BRACING SHALL CONFORM TO NFPA 90A AND SMACNA - HVAC DUCT CONSTRUCTION STANDARDS: METAL AND FLEXIBLE. B. MINIMUM SHEET METAL THICKNESS SHALL BE 26 GA. 		DIFFUSER WITH FLEXIBLE DUCT CONNECTION				
C. ALL DUCT JOINTS SHALL BE SEALED USING DUCT SEALANT AS MANUFACTURED BY UNITED SHEET METAL, OR EQUAL. ALL DUCTWORK SHALL BE FABRICATED FOR 2-INCH WATER GAGE PRESSURE CLASS.	(1)	KEYNOTE				
D. STRAP HANGERS SHALL NOT BE LESS THAN 1" WIDE BY 22 GAUGE, ON SIX (6) FOOT CENTERS AND ATTACHED TO THE SIDE OF THE DUCT WITH SHEET METAL SCREWS. INSULATED FLEXIBLE DUCT MAY BE USED FOR LOW PRESSURE RUNOUTS TO INDIVIDUAL DIFFUSERS IN LENGTHS NOT TO EXCEED BY FOR FACE DIFFUSER.	EQP 1	EQUIPMENT TAG				
TO EXCEED 5' FOR EACH DIFFUSER. SEAL ALL SHEET METAL SCREW PENETRATIONS. E. PROVIDE FLEXIBLE CONNECTION BETWEEN ALL FAN POWERED EQUIPMENT AND CONNECTING DUCTWORK.	S	SUPPLY GRILLE CALLOUT WITH FLOW RATE				
F. DUCTWORK SUPPORT MATERIALS: EXCEPT AS OTHERWISE INDICATED PROVIDE GALVANIZED STEEL FASTENERS, ANCHORS, RODS, STRAPS WIRE ROPE, TRIM AND ANGLES FOR SUPPORT OF DUCTWORK. SUPPORT ALL DUCTWORK FROM THE STRUCTURE ONLY. DO NOT SUPPORT FROM		RETURN GRILLE CALLOUT				
DECK. G. PROVIDE BALANCING DAMPERS IN TAKEOFFS WHERE SPECIFIC FLOW RATES ARE SHOWN.		THERMOSTAT/TEMPERATURE SENSOR				
14. DUCT INSULATION:A. SUPPLY AIR/OUTSIDE AIR:EXTERNALLY INSULATE WITH FIBERGLASS DUCT WRAP UNLESS		GENERAL NOTES				

EXTERNALLY INSULATE WITH FIBERGLASS DUCT WRAP UNLESS INDICATED OTHERWISE ON THE DRAWINGS. INSULATION SHALL BE

SEALED JOINTS, OR MORE STRINGENT IF REQUIRED PER CODE.

C. ALL INSULATION, JOINING MATERIALS, SEALER, ETC. SHALL HAVE A U.L

A. PROVIDE CONDENSATE PIPING FOR ALL COOLING COILS. ROUTE PIPING

A. CODES AND PERMITS: ALL WORK SHALL BE INSTALLED IN ACCORDANCE

ALL FEES AND PERMITS SHALL BE PAID FOR BY THE CONTRACTOR.

B. PIPE INSULATION SHALL COMPLY WITH IECC SECTION C403.12.3.

TO NEAREST DRAIN AND TERMINATE WITH AIR GAP. PROVIDE

CONDENSATE PUMP WHEN GRAVITY DRAIN IS NOT SUFFICIENT. PROVIDE INSULATION ON CONDENSATE PIPING A MIN. OF 10' DOWNSTREAM OF

DEVELOPMENT RATING OF NOT MORE THAN 50.

C. HOT/CHILLED/CONDENSATE WATER PIPING

FITTINGS AND SOLDERED JOINTS.

TEMPERATURE TO 110F FOR LAVATORIES.

C. INSTALL HEAT TRAPS AT DOMESTIC WATER HEATER.

G. PROVIDE STOP VALVES ON HOT/COLD WATER BRANCH PIPING

TYPE "K" COPPER UNDERGROUND WITH NO JOINTS

SERVICE WEIGHT CAST IRON, HUB AND SPIGOT FITTINGS

SERVICE WEIGHT CAST IRON, HUB AND SPIGOT FITTINGS

SERVICE WEIGHT CAST IRON WITH NO-NUB FITTINGS AND

OVERLAPPING FLAP. INSULATION THICKNESS SHALL BE 1" FOR PIPES UP

TO 1-1/4"Ø AND 1-1/2" THICK FOR PIPES 1-1/2"Ø AND LARGER. PIPE

INSULATION SHALL COMPLY WITH IECC SECTION C404.4.

AIR PLENUM OR WASTE TEMP ABOVE 140F

B. RETURN AIR:

COOLING COIL

<u>PLUMBING</u>

16 GENERAL

AIR PLENUM

ADDITIONAL FRAMING

MAINTENANCE, AND REPAIR.

AIR PLENUM

. INSTALL PIPING AS HIGH AS POSSIBLE

PANELS AT ALL FAST CLOSING VALVES.

ACCEPTED GOOD PRACTICE OF THE INDUSTRY.

FITTINGS AND SOLDERED JOINTS.

C. STORM/WASTE/VENT PIPING (ABOVE GROUND)

A. DOMESTIC WATER PIPING (ABOVE GROUND)

B. DOMESTIC WATER PIPING (BELOW GROUND)

NEOPRENE GASKETS

NEOPRENE GASKETS E. NATURAL GAS PIPING OPTIONS

EXTERIOR PIPING PER CODE

 ${\tt EXPOSED\ TRAPS\ SHALL\ BE\ CHROME\ PLATED}.$

GENERAL NOTES

- 1-1/2" THICK WITH CONTINUOUS VAPOR BARRIER JACKET WITH THE FOLLOWING NOTES APPLY TO MECHANICAL & PLUMBING DRAWINGS TO THE EXTENT APPLICABLE.
- NOT ALL DUCTWORK, OFFSETS, PIPING, EQUIPMENT, AND ACCESSORIES ARE SHOWN ON PLANS. REFER TO ALL INTERNALLY LINED INSULATION, MINIMUM 1" THICK. DUCTWORK PLANS, SECTION, DETAILS, SCHEDULES, CONTROLS AND SPECIFICATIONS FOR COMPLETE SYSTEM REQUIREMENTS. DIMENSIONS ON PLANS REFLECT FREE AREA. INCREASE DUCT DIMENSIONS AS REQUIRED TO ACCOMMODATE INTERNAL CONTRACTOR SHALL PROVIDE ALL REQUIRED OFFSETS, TRANSITIONS, AND FITTINGS FOR DUCTWORK AND PIPING TO
- MANY AREAS OF CONSTRUCTION WILL BE VERY CONGESTED. INSTALLATION OF MATERIALS AND EQUIPMENT SHALL BE FLAME SPREAD CLASSIFICATION OF NOT MORE THAN 25 AND A SMOKE COORDINATED WITH ALL OTHER TRADES AND EXISTING CONDITIONS TO ENSURE THAT THERE IS ADEQUATE ROOM FOR ALL OTHER MATERIALS AND EQUIPMENT TO BE INSTALLED UNDER THIS CONTRACT. INSTALLATION OF MATERIALS AND EQUIPMENT WHICH DOES NOT ALLOW FOR INSTALLATION OF REMAINING MATERIALS AND EQUIPMENT WILL BE REMOVED AND RELOCATED AT NO COST TO THE OWNER OR DESIGN TEAM.
 - COORDINATE LOCATION OF ALL DUCTWORK, PIPING, EQUIPMENT, DIFFUSERS AND GRILLES, AND PENETRATIONS WITH ALL OTHER TRADES. BEFORE FABRICATION OR INSTALLATION.
 - DUCT SIZES SHOWN REPRESENT CLEAR INSIDE DIMENSIONS. ALL RECTANGULAR DUCT ELBOWS SHALL INCLUDE TURNING VANES.
- 8. UNLESS NOTED OTHERWISE, DIFFUSER/GRILLE/REGISTER NECK SIZE SHOWN ON DRAWING INDICATES SIZE OF DUCT TO DIFFUSER/REGISTER/GRILLE. PVC, SCHEDULE 40, SOLVENT JOINT, UNLESS ROUTED IN RETURN
- CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS BEFORE ORDERING MATERIALS OR PERFORMING WORK. TYPE "L" COPPER WITH WROUGHT-COPPER SOLDER-JOINT DEVIATIONS FROM CONDITIONS SHOWN ON PLANS SHALL BE REPORTED TO THE A/E AND A RESOLUTION SHALL BE FOUND BEFORE BEGINNING ASSOCIATED WORK. SITE CONDITIONS DIFFERING FROM THOSE SHOWN ON THESE PLANS WILL NOT GENERALLY BE CONSIDERED A BASIS FOR CONTRACT MODIFICATIONS AS THE CONTRACTOR SHALL TAKE INTO ACCOUNT WORST CASE SITE CONDITIONS.
- DO UNLESS INDICATED OTHERWISE, BRANCH DUCTWORK TO TERMINAL UNIT SHALL BE SAME SIZE AS TERMINAL UNIT WITH LOCAL AND STATE CODES AND UTILITY COMPANY REGULATIONS. . PROVIDE RETURN BOOT AT ALL UNDUCTED LAY-IN RETURN GRILLES.
- B. PROVIDE TEMPERATURE CONTROLS TO LIMIT HOT WATER 2. ALL PENETRATIONS THROUGH FIRE/SMOKE RATED CONSTRUCTION SHALL BE SEALED TO MEET THE REQUIREMENTS OF THE FIRE RATING. PROVIDE FIRE AND/OR SMOKE DAMPERS AT PENETRATIONS PER CODE.
- 3. VOLUME DAMPERS LOCATED ABOVE HARD CEILINGS SHALL BE INSTALLED WITH CONCEALED DAMPER REGULATOR D. SUPPORT NEW PIPING FROM BUILDING STRUCTURE AND/OR FRAMING IN AN APPROVED MANNER. WHERE OVERHEAD CONSTRUCTION DOES NOT
- PERMIT FASTENING OF SUPPORTS FOR EQUIPMENT, FURNISH 4. COORDINATE FINAL LOCATION OF PLUMBING FIXTURES WITH ARCHITECTURAL DRAWINGS & GENERAL CONTRACTOR. 5. COORDINATE ROUTING OF DUCTWORK AND PIPING WITH ELECTRICAL EQUIPMENT. DO NOT ROUTE DUCTWORK AND E. INSTALL WORK SO AS TO BE READILY ACCESSIBLE FOR OPERATION,
- PIPING DIRECTLY OVER THE TOP OF ELECTRICAL PANELBOARDS AND SWITCHBOARDS. 6. PRODUCTS LISTED ON THE SCHEDULE SHEETS ARE TO BE CONSIDERED BASIS OF DESIGN. OTHER MATERIALS MAY BE ALLOWED AS SUBSTITUTIONS PROVIDED THEY MEET OR EXCEED ALL PERFORMANCE/SPECIFICATION CHARACTERISTICS H. PROVIDE WATER HAMMER ARRESTORS AND ASSOCIATED ACCESS AND RECEIVE APPROVAL FROM THE DESIGN ENGINEER.
- 7. SCHEDULED VALUES ARE FOR 1000 FT. ELEVATION. WORKMANSHIP: ALL MATERIALS SHALL BE INSTALLED PER | 18. NATURAL GAS SHALL BE THE FUEL FOR ALL GAS EQUIPMENT. MANUFACTURER'S RECOMMENDATIONS AND IN ACCORDANCE WITH
 - 19. FINAL PRODUCT SHALL BE A COMPLETE AND FUNCTIONING SYSTEM, AND SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES. 20. ROOF MOUNTED EQUIPMENT SHALL BE A MINIMUM 10' FROM EDGE OF ROOF.
- PEX PLASTIC PIPING AND FITTINGS, UNLESS ROUTED IN RETURN | 21. LOCATE DUCTWORK AND PIPING AWAY FROM THE SPACE ABOVE ELECTRICAL PANELS, TRANSFORMERS, AND OTHER ELECTRICAL EQUIPMENT.
- TYPE "L" COPPER WITH WROUGHT-COPPER SOLDER-JOINT 22. PROVIDE SLEEVES AND/OR OPENINGS TO RUN PIPES AND DUCTS THROUGH FOUNDATIONS, FLOORS, WALLS, AND
 - 23. MAINTAIN CLEAR ACCESS TO SERVICE EQUIPMENT AND OTHER ACCESSORIES REQUIRING SERVICE, VISUAL INSPECTION OR HAND OPERATION. WHERE INDICATED OR REQUIRED, PROVIDE ACCESS PANELS.
- PVC, SCHEDULE 40, SOLVENT JOINT, UNLESS ROUTED IN RETURN 24. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S WRITTEN INSTALLATION
- SERVICE WEIGHT CAST IRON WITH NO-NUB FITTINGS AND 26. PRIOR TO STARTING WORK, SUBMIT SHOP DRAWINGS FOR ALL MECHANICAL EQUIPMENT, PLUMBING FIXTURES, AND
- D. STORM/WASTE/VENT PIPING OPTIONS (BELOW GROUND) PVC, SCHEDULE 40, SOLVENT JOINT, UNLESS WASTE TEMP ABOVE 27. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND SHALL ARRANGE FOR ALL INSPECTIONS
 - AS REQUIRED. 28. PROVIDE FLEXIBLE CONNECTIONS FOR DUCTWORK CONNECTED TO FANS.

25. INSTALL EXPOSED PIPING AND DUCTWORK AS HIGH AS PRACTICAL IN ROOMS WITHOUT CEILINGS.

- 29. LOCATIONS OF ITEMS SHOWN ON DRAWINGS ARE APPROXIMATE. DO NOT SCALE DRAWINGS. 30. PROVIDE VIBRATION ISOLATION TO ALL MECHANICAL EQUIPMENT TO PREVENT TRANSMISSION OF VIBRATION TO
- SCHEDULE 40 BLACK STEEL WITH MALEABLE FITTINGS. PAINT BUILDING STRUCTURE. I. RUNS OF FLEXIBLE DUCT SHALL NOT EXCEED 5 FEET. F. PIPE INSULATION: HOT AND COLD DOMESTIC WATER PIPING EXCEPT
- THAT EXPOSED AT FIXTURES SHALL BE INSULATED WITH 4-PCF DENSITY 32. THERMOSTATS TO BE LOCATED 48" ABOVE FLOOR. PRE-FORMED FIBERGLASS PIPE INSULATION WITH FIRE-RESISTIVE AS.I 3. PROVIDE MANUAL VOLUME DAMPERS AND BELL-MOUTH SPIN-IN FITTING FOR ALL DIFFUSER TAKEOFFS FROM MAIN VAPOR BARRIER JACKET AND SELF-ADHERING AND SELF-SEALING
 - 34. SLEEVE AND SEAL EXTERIOR WALL AND ROOF PENETRATIONS TO A WEATHER TIGHT CONDITION. SLEEVE AND SEAL INTERIOR FLOOR PENETRATIONS TO A WATER TIGHT CONDITION.
- 5. INSTALL MAINS AS HIGH AS POSSIBLE. MANUAL AIR VENTS SHALL BE PROVIDED AT ALL PIPING HIGH POINTS AND FIXTURES: SHALL BE OF MANUFACTURER INDICATED ON PLANS OR END OF PIPING LOOPS. PROVIDE REMOVABLE INSULATION PLUG. APPROVED EQUAL. ALL FIXTURES SHALL BE FURNISHED WITH EITHER
- CHROME PLATED SUPPLIES AND STOP VALVES OR INTEGRAL STOPS. ALL | 36. ALL PIPING SHALL BE INSTALLED TO FACILITATE COIL REMOVAL, FILTER REPLACEMENT AND OPENING OF ACCESS
 - 37. PROVIDE 4" HOUSEKEEPING PAD FOR FLOOR/GRADE MOUNTED EQUIPMENT. 38. PROVIDE ALUMINUM DUCTWORK/GRILLES IN HIGH-HUMIDITY AREAS.





MECHANICAL KEYNOTES

- 1. ROUTE DUCT DOWN FROM ROOFTOP UNIT AND TERMINATE OPEN BELOW ROOF. PROVIDE TEMPORARY CAP FOR OPENING.
- 2. ROUTE EXHAUST DUCT UP THRU ROOF AND TERMINATE WITH GREENHECK RCC-7 ROOF CAP AND INSECT SCREEN. TERMINATE A MIN. 10' FROM OUTSIDE AIR INTAKES.

GENERAL MECHANICAL NOTES

- A. CONTRACTOR SHALL INSPECT SITE THOROUGHLY TO FAMILIARIZE THEMSELVES WITH THE AREA OF WORK. ANY DISCREPANCIES BETWEEN THESE DOCUMENTS AND ACTUAL CONDITIONS SHALL BE REPORTED TO THE ARCHITECT/ENGINEER FOR RESOLUTION PRIOR TO BID PRICING.
- B. COORDINATE DUCTWORK INSTALLATION WITH PLUMBING, ELECTRICAL, FIRE PROTECTION, AND STRUCTURAL CONDITIONS. DUCTWORK LOCATION SHALL TAKE PRECEDENCE OVER PLUMBING/HYDRONIC/FIRE PROTECTION PIPING AND ELECTRICAL CONDUIT/CABLE TRAY.
- C. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A COMPLETE AND WORKING SYSTEM.
- VALVES, ETC., WHERE LOCATED ABOVE HARD CEILINGS. E. OUTSIDE AIR OPENINGS SHALL TERMINATE A MIN. OF 10' FROM
- D. PROVIDE ACCESS PANELS FOR ACCESS TO DAMPERS, ACTUATORS, ALL BUILDING EXHAUST, PLUMBING VENTS, OR OTHER CONTAMINANT SOURCES.



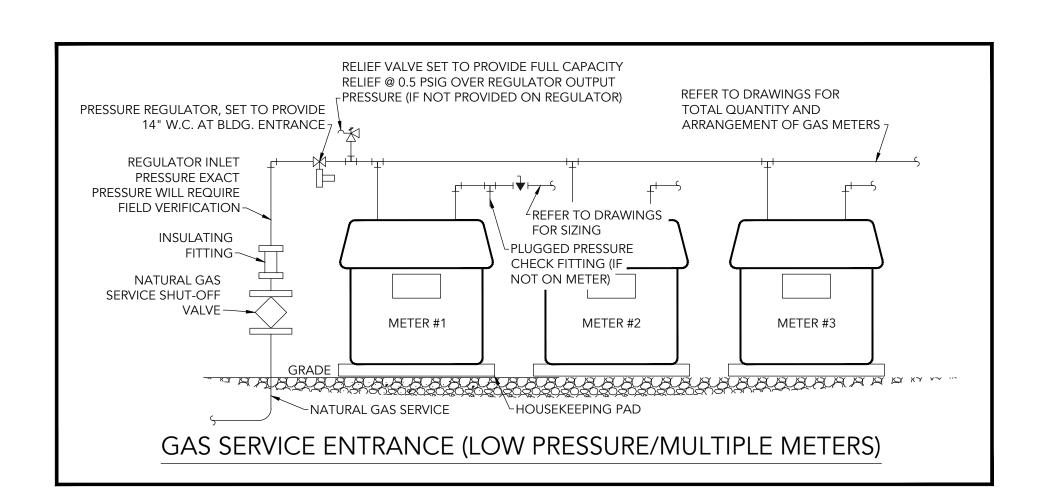


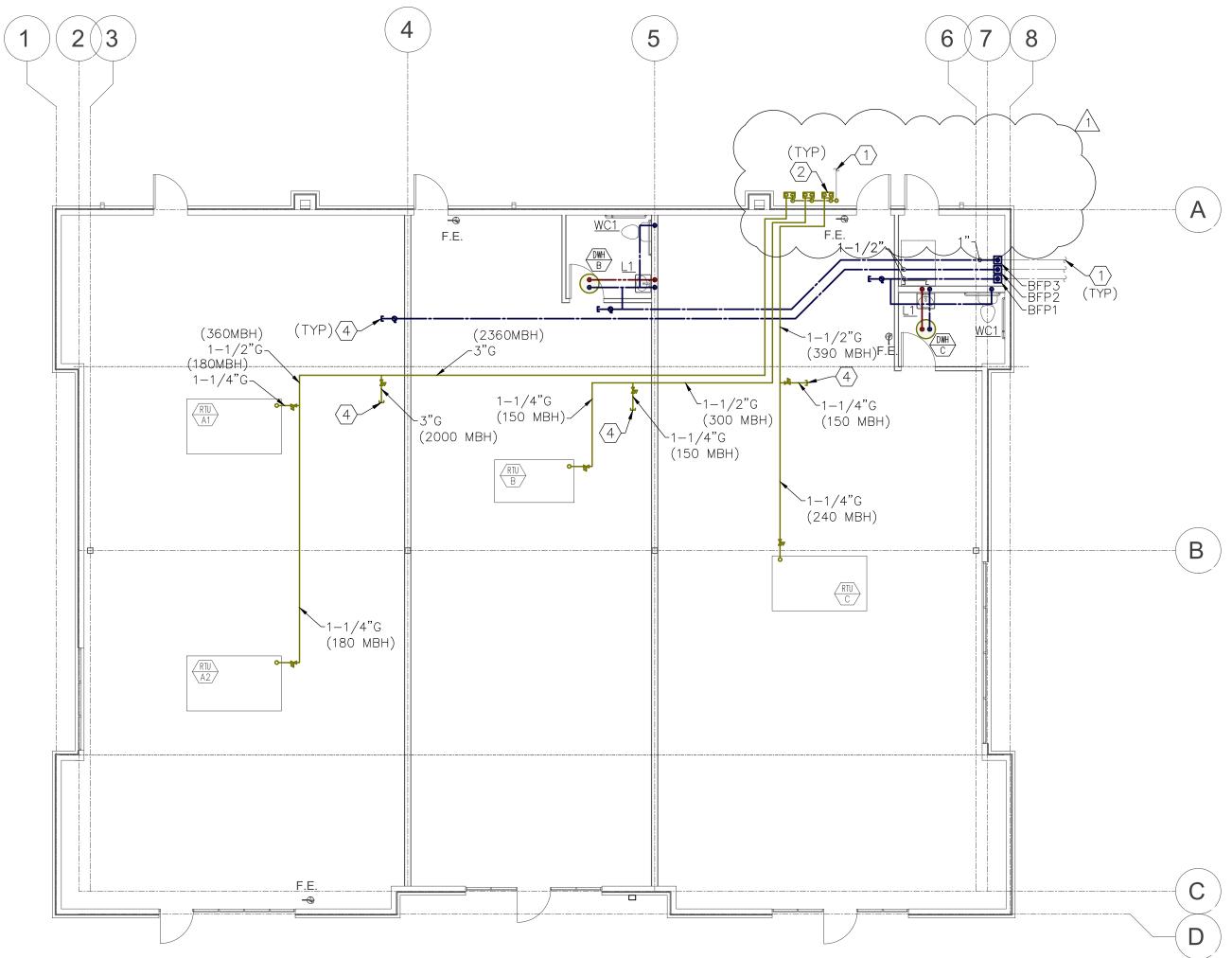
Description Date **Revision Schedule** /1\ 7-2-25 REVISION

05.08.2025

Project number







PLUMBING KEYNOTES

- 1. REFER TO CIVIL PLANS FOR CONTINUATION.
- 2. NEW LOW PRESSURE GAS METER. REFER TO NATURAL GAS DETAIL FOR ADDITIONAL INFORMATION.
- 3. REFER TO IRRIGATION PLANS FOR CONTINUATION.
- 4. PROVIDE SHUT-OFF VALVE AND CAP FOR FUTURE CONNECTION.

GENERAL PLUMBING NOTES

- A. LOCATIONS, SIZES, AND QUANTITIES OF EXISTING EQUIPMENT AND PIPING ARE ESTIMATED, FIELD VERIFY EXACT LOCATIONS, SIZES, AND QUANTITIES BEFORE COMMENCING WORK. DEVIATIONS FROM CONDITIONS SHOWN ON THESE PLANS SHALL BE REPORTED TO THE ARCHITECT AND ENGINEER.
- B. PLUMBING INSTALLATIONS SHALL CONFORM TO LOCAL CODES. C. CONSULT WITH OWNER FOR CONNECTIONS TO ANY OWNER
- FURNISHED EQUIPMENT. D. PROVIDE WATER HAMMER ARRESTORS ON ALL RUNS WITH QUICK CLOSING VALVES. PROVIDE ACCESS PANELS FOR ALL VALVES AND
- WATER HAMMER ARRESTORS. E. PROVIDE BALL VALVE FOR ISOLATION OF ALL DOMESTIC WATER
- BRANCH LINES UNLESS OTHERWISE NOTED. F. SEE RISER DIAGRAMS FOR PIPE SIZING.



RCHARD

0

SUMMIT,

FOR

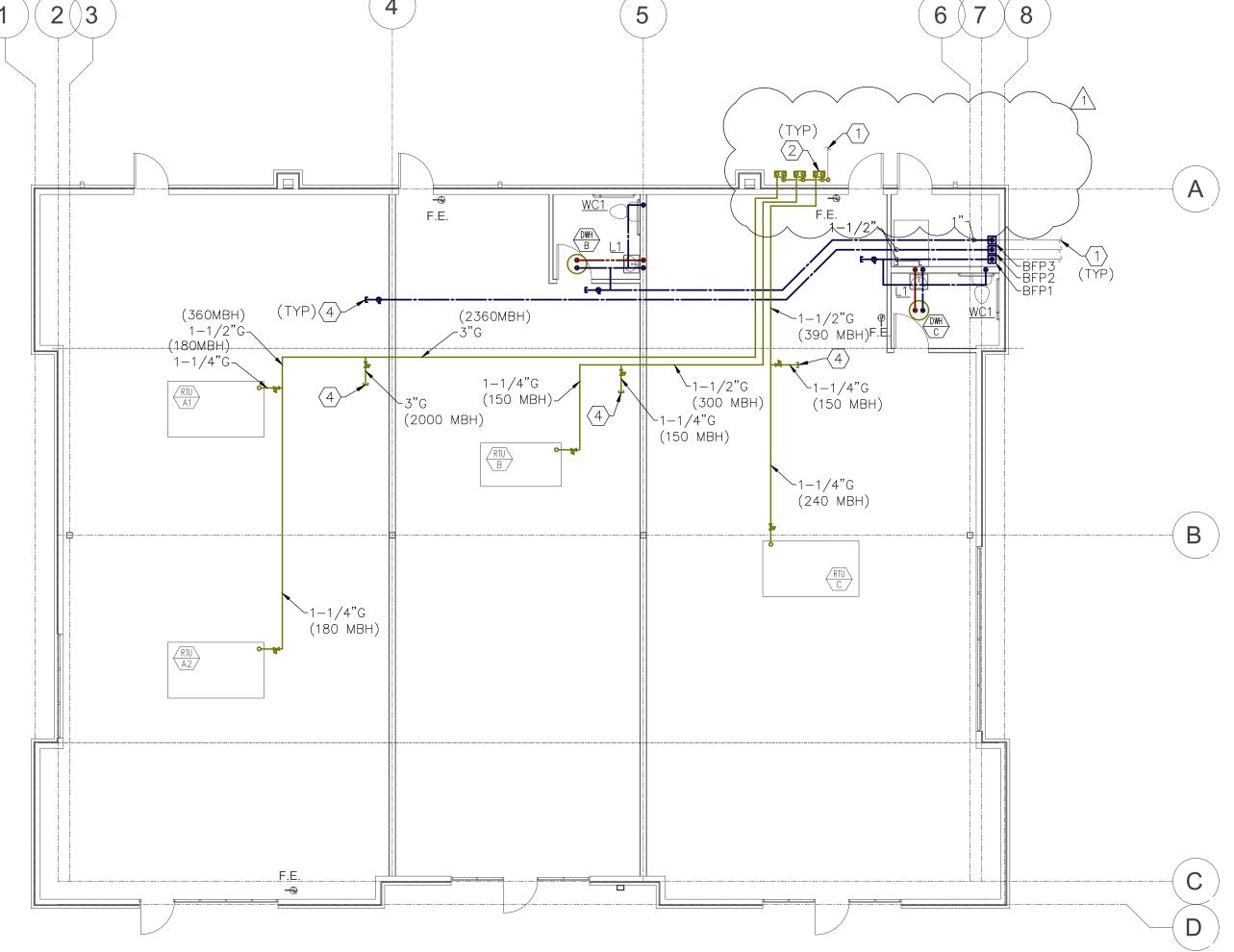
NEW

Date Description **Revision Schedule**

 $\sqrt{1}$ 7-2-25 REVISION

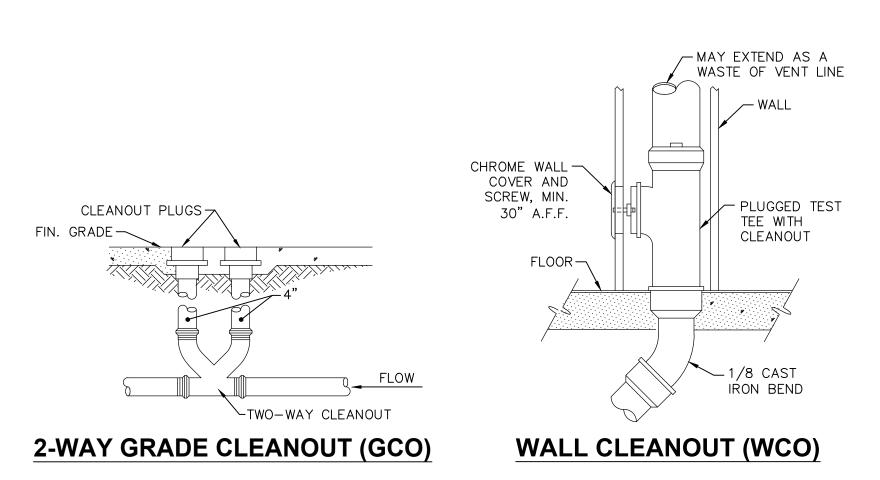
2491 Project number 05.08.2025

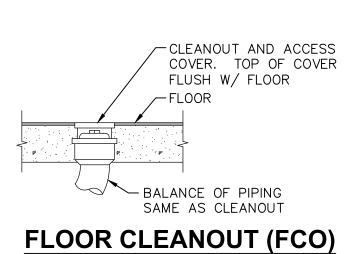
P101

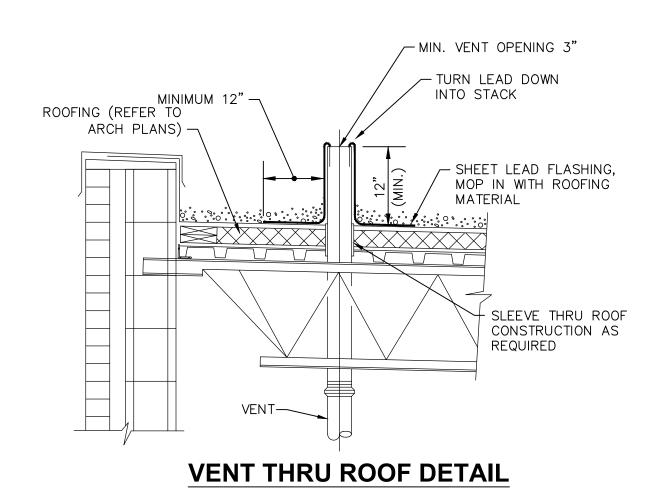


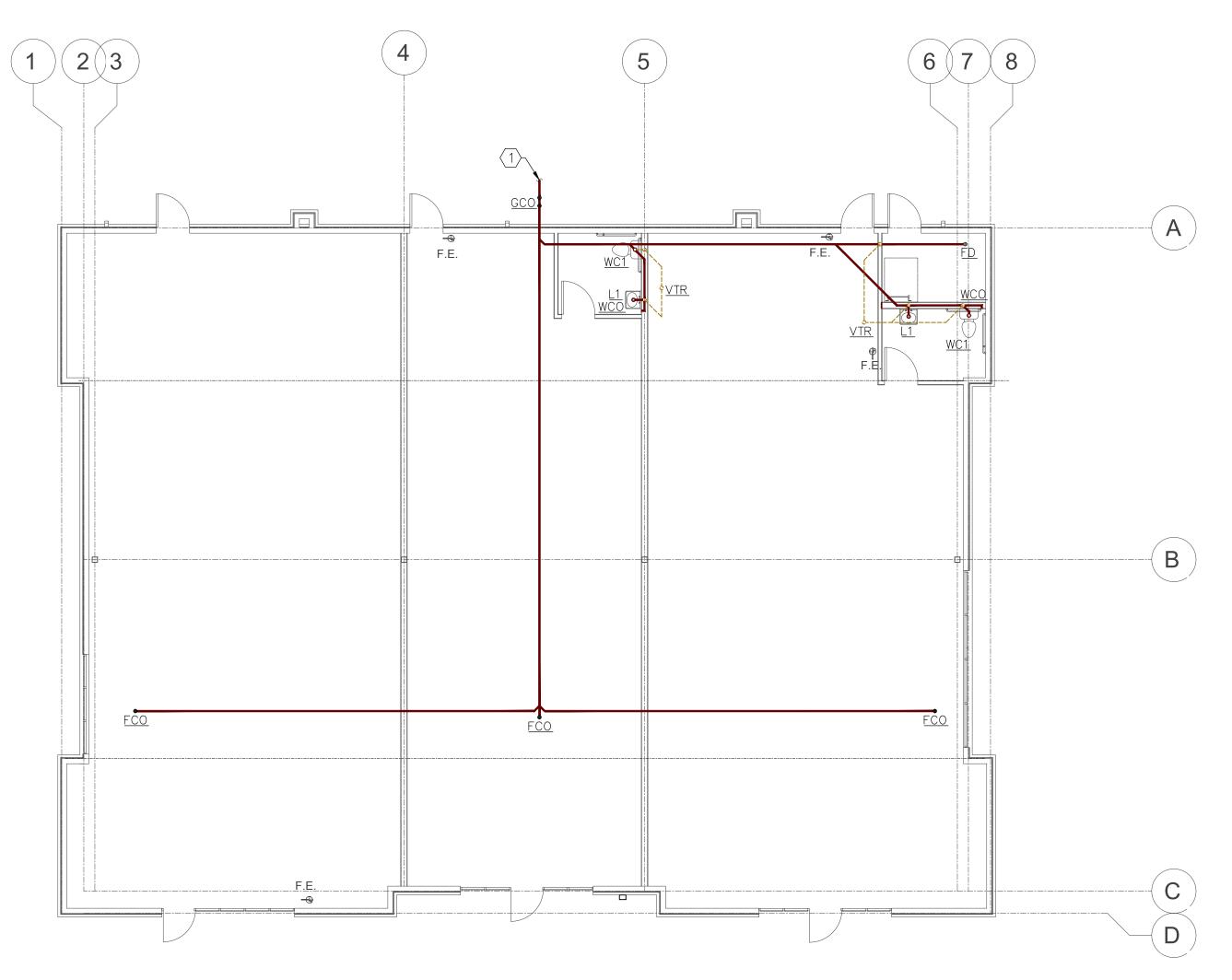


PLUMBING RISER

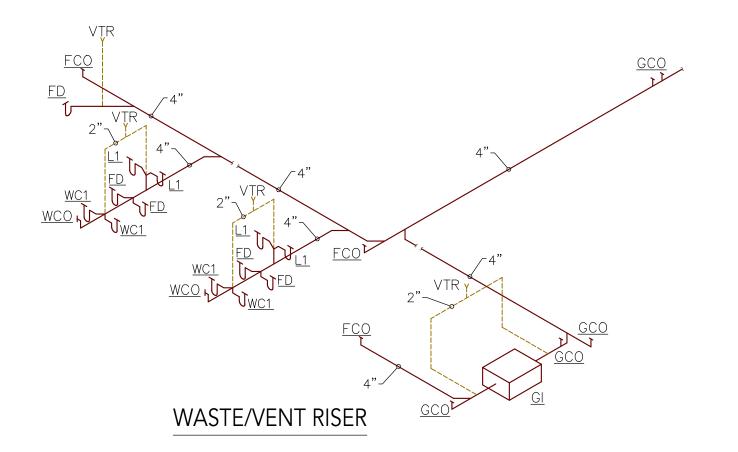












WASTE/VENT KEYNOTES

REFER TO CIVIL PLANS FOR CONTINUATION.

GENERAL WASTE/VENT NOTES

- A. CONTRACTOR SHALL INSPECT SITE THOROUGHLY TO FAMILIARIZE THEMSELVES WITH THE AREA OF WORK. ANY DISCREPANCIES BETWEEN THESE DOCUMENTS AND ACTUAL CONDITIONS SHALL BE REPORTED TO THE ARCHITECT/ENGINEER FOR RESOLUTION PRIOR TO PRICING.
- PRIOR TO PRICING.

 B. ABOVE-GRADE WASTE PIPE SHALL BE RUN AT 2% GRADE.

 BELOW-GRADE WASTE PIPE SHALL BE RUN AT 1% GRADE UNLESS

 NOTED OTHERWISE OR DICTATED BY CODE.
- C. ALL CONDENSATE DRAIN PIPE SHALL BE RUN AT 1% GRADE.

 D. ROUTE ALL PIPING INTENDED FOR ABOVE CEILING LEVEL
 INSTALLATION AS HIGH AS POSSIBLE. COORDINATE ROUTING
 WITH OTHER TRADES. SLOPED PIPING ELEVATIONS TAKE PRIORITY
 OVER ALL OTHER SYSTEMS AND TRADES.
- E. FIELD VERIFY LOCATION AND INVERTS OF SITE UTILITIES PRIOR TO
- INSTALLATION.

 F. PLUMBING VENTS SHALL TERMINATE A MIN. 10' FROM ALL
- OUTSIDE AIR INTAKES (OR EXTENDED A MIN. 3' ABOVE INTAKE).
 G. PROVIDE DRAIN TEMPERING VALVE FOR ANY WASTE WATER
- ABOVE 150°F.
 H. SEE RISER DIAGRAMS FOR PIPE SIZING.



VUEngineering LLC 4437 Pennslyvannia Ave. Kansas City MO 64111

ORCHARDS

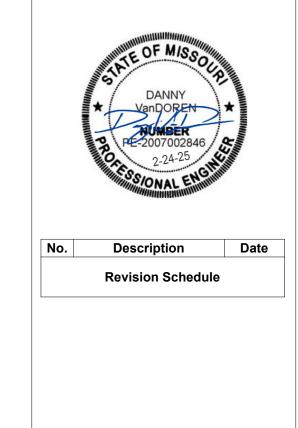
FOR

NEW

SUMMIT ORCH

SUMMIT,

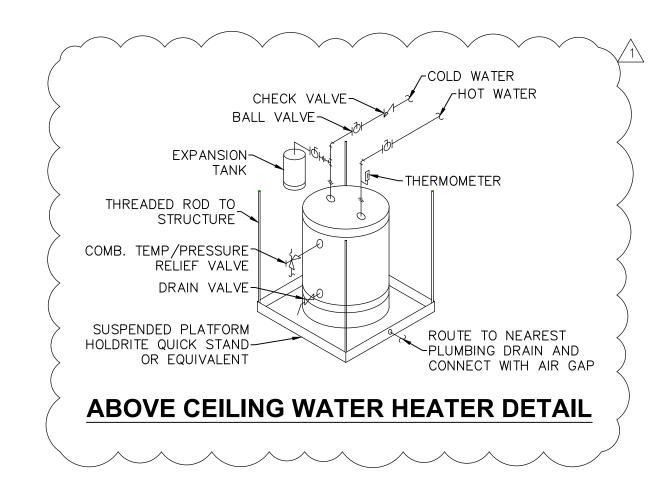
LEE

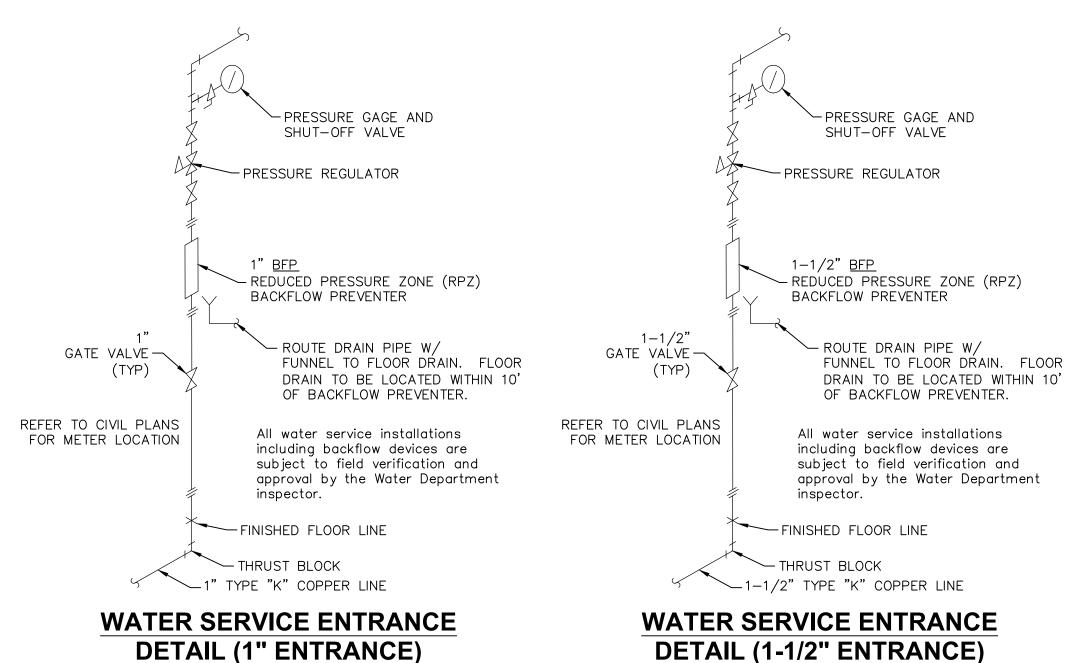


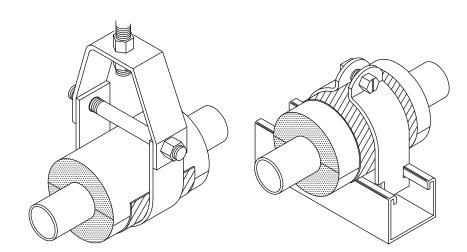
Project number 2491

Date 05.08.2025

P102

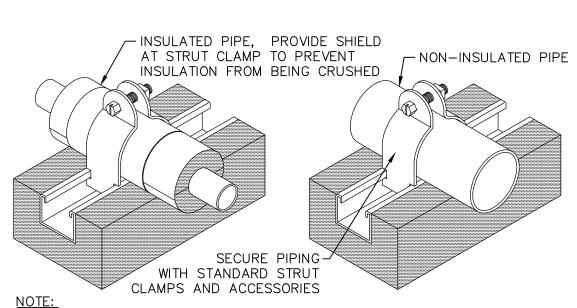






PROVIDE AND INSTALL B-LINE OR APPROVED EQUAL, HYDROUS CALCIUM SILICATE INSULATION WITH PRE-GALVANIZED STEEL JACKET AT HANGER, STRUT MOUNTED CLAMP, AND PIPE SUPPORT LOCATIONS.

PIPE SUPPORT INSULATION DETAILS



NOTE:
INSTALL PIPE PIER SUPPORT EVERY 15' AND AT EVERY CHANGE IN DIRECTION.
DO NOT SECURE TO ROOF. THE SUPPORT SHALL REST FREELY ON THE ROOF.
SIZE EACH SUPPORT PER MANUFACTURER'S RECOMMENDATIONS.

ROOF PIPE SUPPORT DETAIL

ROOFTOP UNIT SCHEDULE COOLING CAP. (MBH) HEATING CAP. (MBH) ELECTRICAL DATA ESP TOTAL ОА MANUFACTURER & REMARKS MARK EAT (F) DB/WB CFM EER/SEER VOLTAGE HP MCA CFM (IN) (LBS) MODEL NO. TOTAL OUTPUT MOCP SENSIBLE INPUT 0.75 RTU-A13000 600 80/67 93.0 74.4 180 12.3/15.7 208/3 | 3.75 | 43 50 1440 1,2,3,4,5,6,7,8,10,12,14 LENNOX LGT092 1,2,3,4,5,6,7,8,10,12,14 RTU-A23000 600 0.75 80/67 93.0 180 12.3/15.7 208/3 3.75 43 50 1440 74.4 146 LENNOX LGT092 400 0.75 1070 RTU-B2000 80/67 60.9 48.7 150 121 12.7/17.1 208/3 28 40 LENNOX LGT060 1,2,3,4,5,6,7,8,12 0.75 208/3 3.75 RTU-C5000 1000 80/67 141.0 112.8 240 194 64 80 1440 LENNOX LGT150 10.8/14.6 1,2,3,4,5,6,7,8,10,12,14

- 1. LISTED CAPACITIES AT 1000 FT ELEVATION, AND 95°F AMBIENT TEMPERATURE.
- FURNISH WITH FACTORY INSTALLED DISCONNECT SWITCH.
- REFRIGERANT TYPE R410A.
- LISTED WEIGHT INCLUDES ROOF CURB.
- PROVIDE NEW PROGRAMMABLE THERMOSTAT.
- PROVIDE WITH HAIL GUARDS.
- PROVIDE WITH HOT GAS REHEAT HUMIDITY CONTROL
- PROVIDE ECONOMIZER WITH DRY BULB CONTROL AND POWERED RELIEF. PROVIDE ECONOMIZER WITH DRY BULB CONTROL AND BAROMETRIC RELIEF.
- 10. PROVIDE DEMAND CONTROL VENTILATION CONTROLS. LISTED MAX OA CFM IS SHALL BE UPPER SETPOINT, WHILE NOT IN ECONOMIZER, WHEN CO2 LEVELS ARE AT 800PPM OR HIGHER.
- 11. PROVIDE WITH UV-C LAMP OR GPS PLASMA AIR PURIFIER. 12. PROVIDE SMOKE DETECTORS IN SUPPLY AND RETURN DUCTWORK. DETECTOR IS TO BE PRE-WIRED TO SHUTDOWN THE FAN MOTOR UPON ACTIVATION. COORDINATE ANY REQUIRED
- INTERLOCKS AND INTERFACE WITH THE BUILDING FIRE ALARM SYSTEM. PROVIDE ALL REQUIRED SERVICE ACCESS TO NEW SMOKE DETECTOR PER CODE. 13. CONNECT TO EXISTING ELECTRICAL CONNECTION. FIELD VERIFY THAT CIRCUIT BREAKER AND BRANCH CIRCUIT CONDUCTOR SIZE ARE SUFFICIENT FOR NEW UNIT OR UPGRADE AS REQUIRED.
- 14. PROVIDE VARIABLE FAN SPEED THAT IS AUTOMATICALLY CONTROLLED BY HEATING/COOLING DEMAND.

1-1/4" HOT DIPPED GALVANIZED ROOF NAILS AT 12" O.C. MAX.	
GASKETED FASTENER 12" O.C. MAX	
1/2" VINYL WEATHER STRIP	
WOOD NAILER — INTERPLY	
EPDM OR MODIFIED BITUMEN GRANULE SURFACED CAP SHEET CANT STRIP	
ANT STATION OF THE STATE OF THE	

ROOFTOP UNIT CURB DETAIL

INSULATION

SUBSTRATE

BASE AND INTERPLY SHEETS -

	 1]
	RTU		
CONDENSATE DRAIN TO-			
DISCHARGE ABOVE SPLASH BLOCK.			
PROVIDE TRAP INSULATED ¬	<u> </u>	00 00	CDDING
PRE-FABRICATED ROOF CURB BY MECH.			SPRING ISOLATION
CONTRACTOR			∠ROOF
4" BATT INSULATION—			SYSTEM
<u> </u>			

ROOFTOP UNIT DETAIL

EXHAUST FAN SCHEDULE									
MARK	TYPE	MAKE & MODEL	CFM	E.S.P. (IN. WC.)	MAX SONES	DRIVE	ELEC. VOLTAGE	CHAR. HP	REMARKS
EF-B/C	CEILING	GREENHECK SP-A110	75	0.3	8	DIRECT	120/1	17.6 W	1,2,3,4,5

- 1. LISTED CAPACITIES AT SEA LEVEL
- PROVIDE WITH FACTORY MOUNTED DISCONNECT SWITCH.
- 3. FAN SHALL BE INTERLOCKED WITH LIGHT SWITCH. 4. PROVIDE WITH GRAVITY BACKDRAFT DAMPER.
- 5. PROVIDE WITH 7"Ø ROOF CAP, GREENHECK RCC-7 OR EQUIVALENT, WITH CURB AND INSECT SCREEN.

WATER HEATER (ELECTRIC)							
MARK	MAKE & MODEL	HTG. INPUT (KW)	RECOVERY @90F (GPH)	TEMP. RISE (F)	STORAGE (GAL)	ELECTRICAL	REMARKS
DWH-B	AO SMITH — EJC6	3	8	90	6	240V	1,2,3,4,5
DWH-C	AO SMITH — EJC6	3	8	90	6	240V	1,2,3,4,5

- 1. PROVDE DISCONNECT SWITCH.
- 2. PROVIDE WITH HEAT TRAP FITTINGS ON COLD AND HOT WATER PIPING CONNECTIONS.
- 3. FURNISH WITH AMTROL MODEL ST-12 THERMAL EXPANSION TANK, ET-1. 4. PROVIDE T&P VALVE.

		<u> </u>		<u> </u>		<u> </u>		<u> </u>	<u> </u>	<u> </u>
ELECTRIC UNIT HEATER SCHEDULE								\		
	MARK	MOUNTING	MFR.	MODEL	CFM	CAPACITY (KW)	ELECTRI VOLTAGE	CAL AMPS	REMARKS	
	UH-1	UNIT HEATER	MARKEL	F1F5103N	400	3.3	208/1	15.9	1,2,3] `

- FURNISH WITH INTEGRAL THERMOSTAT.
 FURNISH WITH FACTORY MOUNTED DISCONNECT SWITCH.
- 3. FURNISH WITH WALL/CEILING BRACKET.

	Ventilation S	(20)	18 IM	C Tal	ble 4	03.3)		
Zone	Room	Use/Classification	Area	People	CFM/ Person	CFM/ SF	Ventilation Effectiveness	OA
Tenant A	Tenant Space	Dining Rooms	1072	36	7.5	0.18	80%	463
	Tenant Space	Kitchen	700	6	7.5	0.12	80%	129
						Outdo	oor Air Required	592
						Outde	oor Air Provided	2200
Tenant B	Tenant Space	Retail Sales	1249	19	7.5	0.12	80%	290
						Outdo	oor Air Required	290
						Outde	oor Air Provided	440
Tenant C	Tenant Space	Retail Sales	1793	27	7.5	0.12	80%	417
						Outdo	oor Air Required	417
						Outde	oor Air Provided	440





ORCHARD

SUMMIT

Revision Schedule

 $\sqrt{1}$ 7-2-25 REVISION

Project number 05.08.2025

MP200

	SPECIFICATIONS	LEGEND				
ENE	ERAL.	SYMBOL	DESCRIPTION			
	FOR ITEMS NOT COVERED BY THIS SPECIFICATION, REFER TO	'//////////////////////////////////////	DEMOLITION			
	LATEST VERSION OF MASTERSPEC FOR REQUIREMENTS. COORDINATION OF WORK: THE ELECTRICAL CONTRACTOR	φ	20 AMP, 120V, NEMA 5-20R, DUPLEX RECEPTACLE			
	SHALL PLAN ALL WORK SUCH THAT IT PROCEEDS WITH A MINIMUM OF INTERFERENCE WITH OTHER TRADES. THE	<u>π</u>	20 AMP, 120V, NEMA 5-20R, QUAD RECEPTACLE			
	CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE THE	<u>₩</u>	20 AMP, 120V, GFCI RECEPTACLE			
	INSTALLATION OF WORK WITH LIGHTING PLANS, REFLECTED CEILING PLANS, STRUCTURAL, AND ALL OTHER TRADES.	π	50 AMP, 240V, SIMPLEX RECEPTACLE			
	THE INSTALLATION OF ALL EQUIPMENT, DEVICES AND MATERIALS REQUIRING ACCESS SHALL BE MADE IN SUCH A	 Ф	20 AMP, 120V, DEDICATED DUPLEX RECEPTACLE			
	MANNER AS TO MAKE THE EQUIPMENT, DEVICES AND MATERIALS READILY ACCESSIBLE FOR OPERATION,		UTILITY METER			
	MAINTENANCE AND REPAIRS.		DISCONNECT SWITCH, NON-FUSED, 250V, U.N.O.			
	SUBSTITUTIONS FOR MATERIAL SPECIFIED: MATERIAL AND ITEMS OF EQUIPMENT FURNISHED MUST MEET THE		FUSED DISCONNECT, SEE NOTATION			
	REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS AS TO QUALITY, PERFORMANCE, SUITABILITY, AND APPEARANCE.	<u> </u>	JUNCTION BOX, WALL MOUNTED			
	THIS IS AN "OR EQUAL" SPECIFICATION. ALTERNATE	<u> </u>	JUNCTION BOX, CEILING MOUNTED			
	MATERIALS AND EQUIPMENT MAY BE SUPPLIED SIMILAR OR EQUAL TO THE PRODUCT OF THE MANUFACTURER SPECIFIED,	T	TRANSFORMER			
	GIVEN PRIOR APPROVAL OF THE DESIGN ENGINEER, AND SHALL BE SUPPLIED AT NO ADDITIONAL COST.	4	SURFACE MOUNTED ELECTRICAL PANEL			
	ALL MATERIALS SHALL BE NEW, UNUSED, AND THE BEST OF	<u> </u>	RECESSED ELECTRICAL PANEL			
	THEIR RESPECTIVE KINDS AND FREE OF DEFECTS. DRAWINGS ARE DIAGRAMMATIC ONLY, INTENDING TO SHOW	\(\rightarrow \)	SURFACE-MOUNTED DOWNLIGHT			
	GENERAL ROUTING AND LOCATIONS OF THE WORK AND ARE	Ŏ	WALL-MOUNTED LUMINAIRE			
	NOT INTENDED TO BE RIGID IN SPECIFIC DETAIL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXAMINING	⊗f \ \$	EXIT SIGN. DIRECTIONAL ARROWS SHOW DIRECTION			
	THE SITE IN RELATION TO THEIR WORK PRIOR TO INSTALLATION. NO ADDITIONAL COMPENSATION WILL BE		EMERGENCY LIGHT FIXTURE			
	ALLOWED FOR LACK OF COORDINATION DURING THE COURSE	os	CEILING-MOUNTED OCCUPANCY SENSOR			
	OF THIS CONTRACT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING	S	SINGLE POLE SWITCH			
	ALL MEASUREMENTS AT THE SITE.	S ₃	THREE WAY SWITCH			
	ALL WORK WITHIN THE CONTRACT AREA FURNISHED AND INSTALLED UNDER THE CONTRACT SHALL BE CLEANED TO	Sos	SWITCH: OCCUPANCY SENSOR			
	THE SATISFACTION OF THE OWNER PRIOR TO TURNING OVER TO THE OWNER.	SD	SWITCH: COMPATIBLE DIMMER			
	CONNECT NEW WORK TO EXISTING IN A NEAT AND WORKMAN		2' X 4' LUMINAIRE, DIAGONAL INDICATES EM FUNCTION			
).	LIKE MANNER. PROVIDE ALL NECESSARY FLASHING AND COUNTER FLASHING TO MAINTAIN THE WATERPROOFING INTEGRITY OF THE	A O	LUMINAIRE TYPE (REFERENCE LUMINAIRE SCHEDULE) WATTAGE, IF SHOWN, REFERENCES ADJUSTABLE OUTPU' LOWER CASE ID, IF SHOWN, REF. WALL SWITCH/CONTRO			
	BUILDING AS REQUIRED BY THE INSTALLATION OR REMOVAL OF PIPES, DUCTS, CONDUIT, AND EQUIPMENT.	ID BUS RATING	SLD: ELECTRICAL PANEL			
EC	TRICAL	××	SLD: TRANSFORMER, RATING AS SHOWN			
	GENERAL:	M	SLD: METER			
А	CODES AND PERMITS: ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL AND STATE CODES AND UTILITY	-	SLD: CURRENT TRANSFORMER			
	COMPANY REGULATIONS. ALL FEES AND PERMITS SHALL	3P 200A	SLD: SWITCH, RATING AS SHOWN			
В	BE PAID FOR BY THE CONTRACTOR. B. WORKMANSHIP: ALL MATERIALS SHALL BE INSTALLED PER	3P 200A	SLD: CIRCUIT BREAKER, RATING AS SHOWN			
	MANUFACTURERS RECOMMENDATIONS AND IN ACCORDANCE WITH ACCEPTED GOOD PRACTICE OF THE INDUSTRY.	<u> </u>	SLD: SAFETY SWITCH, NON-FUSED, 250V, U.N.O.			
С	. PROVIDE ACCESS PANELS IN HARD CEILINGS BELOW	₽	SLD: FUSED DISCONNECT			
D	EQUIPMENT THAT REQUIRES ACCESS. FIELD VERIFY AVAILABLE SPACE ABOVE CEILING BEFORE FABRICATION AND INSTALLATION OF DUCTWORK.	EQP 1	EQUIPMENT TAG			
Ε	REFER TO ARCHITECTURAL PLANS AND INTERIOR ELEVATIONS FOR FINAL RECEPTACLE AND DEVICE	XX: YY	CIRCUIT HOMERUN — PANEL NAME: CIRCUIT NUMBER			
	PLACEMENT. COORDINATE ALL RECEPTACLE MOUNTING		CONDUIT AND WIRE CONCEALED U.N.O.			
	LOCATIONS WITH FIXTURES, APPLIANCES, FURNITURE, CABINETRY, AND OTHER EQUIPMENT PRIOR TO ROUGH—IN.		CONDUIT AND WIRE BELOW GRADE			
F	REFER TO MECHANICAL EQUIPMENT SCHEDULE FOR CIRCUIT, DISCONNECT, AND CONDUCTORS FOR MECHANICAL EQUIPMENT.		STRAIGHT HASH MARKS: CURRENT—CARRYING CONDUCTOR EMPTY DOT: GROUNDED CONDUCTOR (NEUTRAL) ANGLED HASH: EQUIPMENT GROUNDING CONDUCTOR			
G	E. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR FIELD COORDINATING THE LOCATION OF ELECTRICAL EQUIPMENT,	1	KEY NOTE DESIGNATOR			
	JUNCTION BOXES, DISCONNECTS, ETC. EC SHALL BE RESPONSIBLE FOR COORDINATION AND THE ROUTING OF FEEDERS. AND BRANCH CIRCUITS COORDINATE POWER]	CONTINUED, BUT NOT SHOWN			

FEEDERS, AND BRANCH CIRCUITS. COORDINATE POWER CONNECTIONS FOR OWNER-PROVIDED EQUIPMENT AND

OTHER DIVISIONS WITH SUBMITTAL DATA CUT SHEETS, WIRING DIAGRAMS, AND MANUFACTURER'S WRITTEN

POWER CONNECTIONS WITH GENERAL CONTRACTOR AND

OTHER DIVISIONS/CONTRACTORS PRIOR TO ROUGH-IN. PROVIDE READILY ACCESSIBLE GROUND-FAULT

J. ELECTRICAL CONTRACTOR SHALL SIZE BRANCH CIRCUIT

A. CIRCUIT ALL EMERGENCY LIGHTING AND EXIT SIGNS TO THE NEAREST LIGHTING BRANCH CIRCUIT AHEAD OF LOCAL

B. LIGHT FIXTURES THAT APPEAR TO BE CENTERED IN A

HARDWARE AND TRIMS REQUIRED FOR INSTALLING ALL

D. VERIFY ALL CEILING FINISHES, CEILING TYPES, AND CEILING

E. ALL CONDUIT SHALL BE CONCEALED IN WALLS, FLOOR

F. CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF ALL EXPOSED CONDUIT WITH ARCHITECT PRIOR TO

FRAMING PROVIDED FOR THAT PURPOSE.

MOUNTING HEIGHTS AND MILLWORK DETAILS.

SLAB, OR ABOVE CEILING, WHERE POSSIBLE. ROUTE

POSSIBLE, AND SUPPORT CONDUIT AND JUNCTION BOXES

OPERATION OF ALL EMERGENCY LIGHTING PRIOR TO JOB

I. ALL DIMMED LIGHTING CIRCUITS ARE TO RECEIVE DEDICATED NEUTRALS. DO NOT SHARE NEUTRALS ON

J. CONTRACTOR TO PROVIDE OWNER WITH A COMPLETE

NAME AND PHONE NUMBER, FOR RE-ORDERING.

COMPONENTS FOR A FULLY FUNCTIONING SYSTEM.

TO THE SPACE AND OPERATE AUTOMATICALLY UPON LOSS

Q. ALL EMERGENCY LUMINAIRES SHALL HAVE ONE (1) 90

R. ALL EMERGENCY LUMINAIRES SHALL HAVE INTEGRAL TEST

SWITCHES AND VISIBLE INDICATING LIGHTS. CONNECT THE EMERGENCY BATTERY BALLAST TO THE UN-SWITCHED LEG

EMERGENCY BATTERY BALLASTS/DRIVERS.

WIRING TO ACCOMMODATE FOR VOLTAGE DROP.

INSTALLATION INSTRUCTIONS.

REQUIRED IN NEC 210.8.

LIGHTING:

SWITCH LEG.

OTHERWISE NOTED.

PROCUREMENT.

COMPLETION.

DIMMED LIGHTING CIRCUITS.

BE CONCEALED FROM VIEW.

OTHERWISE NOTED.

OF NORMAL POWER.

MINUTE EMERGENCY BALLAST.

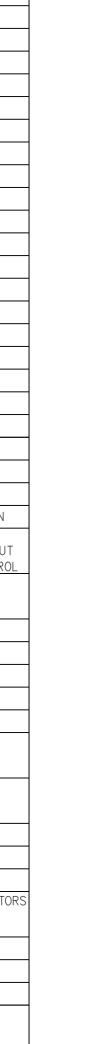
OF THE LIGHTING CIRCUIT INDICATED.

BACK-UP.

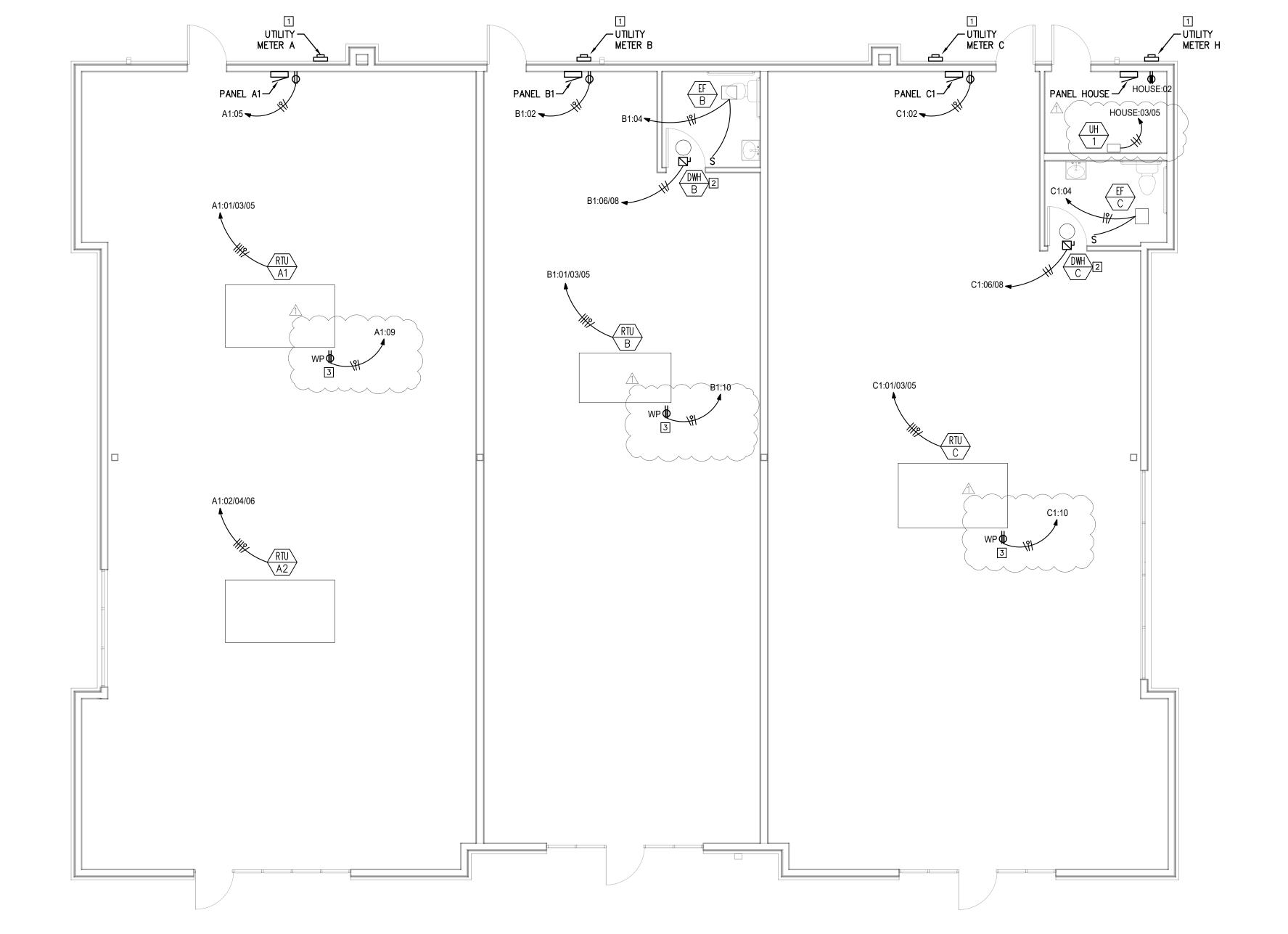
GENERAL NOTES

- H. FIELD COORDINATE FINAL LOCATIONS OF EQUIPMENT AND EXTENT APPLICABLE. NOT ALL CONDUCTORS, CONDUIT, EQUIPMENT, AND ACCESSORIES ARE SHOWN ON PLANS. REFER TO ALL PLANS, SECTION, DETAILS, SCHEDULES, AND SPECIFICATIONS FOR COMPLETE SYSTEM CIRCUIT-INTERRUPTER (GFCI) PROTECTION FOR
- RECEPTACLES FOR APPLIANCES LISTED AND IN LOCATIONS
 - INSTALLATION OF MATERIALS AND EQUIPMENT SHALL BE COORDINATED WITH ALL OTHER TRADES AND EXISTING CONDITIONS TO ENSURE THAT THERE IS ADEQUATE ROOM FOR ALL OTHER MATERIALS AND EQUIPMENT TO BE INSTALLED UNDER THIS CONTRACT. INSTALLATION OF MATERIALS AND EQUIPMENT WHICH DOES NOT ALLOW FOR INSTALLATION OF REMAINING MATERIALS AND EQUIPMENT WILL BE REMOVED AND RELOCATED AT NO COST TO THE OWNER OR DESIGN TEAM.
- SPACE OR CEILING PANEL SHALL BE CENTERED UNLESS C. CONTRACTOR IS RESPONSIBLE FOR PROVIDING MOUNTING
- CONDITIONS SHOWN ON PLANS SHALL BE REPORTED TO THE A/E AND A RESOLUTION SHALL BE FOUND BEFORE BEGINNING ASSOCIATED WORK. SITE CONDITIONS DIFFERING FROM THOSE SHOWN ON THESE PLANS WILL THICKNESS PRIOR TO FINAL FIXTURE PURCHASE AND NOT GENERALLY BE CONSIDERED A BASIS FOR CONTRACT MODIFICATIONS AS THE CONTRACTOR SHALL TAKE INTO ACCOUNT WORST CASE SITE CONDITIONS.\
- CONDUIT AS CLOSE TO STRUCTURAL SLAB OR DECK AS UNLESS INDICATED OTHERWISE, BRANCH CIRCUITS ARE SINGLE-POLE,
 - PRODUCTS LISTED ON THE SCHEDULE SHEETS ARE TO BE CONSIDERED
- G. REFER TO ARCHITECTURAL AND INTERIORS PACKAGE FOR PERFORMANCE/SPECIFICATION CHARACTERISTICS AND RECEIVE FIXTURE INSTALLATION REQUIREMENTS, INCLUDING APPROVAL FROM THE DESIGN ENGINEER. H. INTERRUPT POWER SUPPLY TO DEMONSTRATE PROPER

 - 2. PROVIDE SLEEVES AND/OR OPENINGS TO RUN PIPES AND DUCTS THROUGH FOUNDATIONS, FLOORS, WALLS, AND ROOF.
- LISTING OF ALL LAMPS UTILIZED ON THE PROJECT ACCESSORIES REQUIRING SERVICE, VISUAL INSPECTION OR HAND INCLUDING MANUFACTURER AND CATALOG INFORMATION. OPERATION. WHERE INDICATED OR REQUIRED, PROVIDE ACCESS PANELS. PROVIDE A SUGGESTED SOURCE, INCLUDING CONTACT 14. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.
- K. ALL LIGHT SWITCHES SHALL BE SPECIFICATION GRADE, 5. INSTALL EXPOSED PIPING AND CONDUIT AS HIGH AS PRACTICAL IN QUIET OPERATION RATED 120/277VOLT, 20 AMPS, UNLESS ROOMS WITHOUT CEILINGS.
- 16. PRIOR TO STARTING WORK, SUBMIT SHOP DRAWINGS FOR ALL L. ALL CONCEALED FIXTURES AND ASSOCIATED WIRING MUST
- 7. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS M. FOR TRACK LIGHTING FIXTURES AND LINEAR LED SYSTEMS, AND SHALL ARRANGE FOR ALL INSPECTIONS AS REQUIRED. ELECTRICAL CONTRACTOR MUST PROVIDE ALL NECESSARY
- CONNECTED TO VIBRATING EQUIPMENT. N. EXIT SIGNS SHALL HAVE INTEGRAL EMERGENCY BATTERY
- 19. LOCATIONS OF ITEMS SHOWN ON DRAWINGS ARE APPROXIMATE. DO NOT SCALE DRAWINGS. O. PROVIDE LUMINAIRES SHOWN WITH EM INDICATOR WITH
 - 23. SLEEVE AND SEAL EXTERIOR WALL AND ROOF PENETRATIONS TO A WEATHER TIGHT CONDITION. SLEEVE AND SEAL INTERIOR FLOOR PENETRATIONS TO A WATER TIGHT CONDITION.
 - 24. PROVIDE 4" HOUSEKEEPING PAD FOR FLOOR/GRADE MOUNTED EQUIPMENT.



- THE FOLLOWING NOTES APPLY TO ELECTRICAL DRAWINGS TO THE
- 3. CONTRACTOR SHALL PROVIDE ALL REQUIRED OFFSETS, TRANSITIONS, AND FITTINGS TO COMPLETE THE SYSTEMS.
- . MANY AREAS OF CONSTRUCTION WILL BE VERY CONGESTED.
- COORDINATE LOCATION OF ALL CONDUIT, EQUIPMENT, LUMINAIRES, SWITCHES, AND ACCESSORIES WITH ALL OTHER TRADES BEFORE FABRICATION OR INSTALLATION.
- . CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS BEFORE ORDERING MATERIALS OR PERFORMING WORK. DEVIATIONS FROM
- DIRECTLY FROM THE STRUCTURAL SLAB, DECK OR 8. ALL PENETRATIONS THROUGH FIRE/SMOKE RATED CONSTRUCTION SHALL BE SEALED TO MEET THE REQUIREMENTS OF THE FIRE RATING. PROVIDE FIRE AND/OR SMOKE DAMPERS AT PENETRATIONS PER CODE.
 - BASIS OF DESIGN. OTHER MATERIALS MAY BE ALLOWED AS SUBSTITUTIONS PROVIDED THEY MEET OR EXCEED ALL
 - O. FINAL PRODUCT SHALL BE A COMPLETE AND FUNCTIONING SYSTEM, AND SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE, AND LOCAL
 - . ROOF MOUNTED EQUIPMENT SHALL BE A MINIMUM 10' FROM EDGE OF
 - 3. MAINTAIN CLEAR ACCESS TO SERVICE EQUIPMENT AND OTHER
 - ELECTRICAL EQUIPMENT,
 - 18. PROVIDE LIQUIDTITE OR FLEXIBLE METAL CONDUIT FOR CIRCUITS
 - . RUNS OF FLEXIBLE CONDUIT SHALL NOT EXCEED 6 FEET.
- P. EMERGENCY LUMINAIRES SHALL SENSE UNSWITCHED POWER | 22. HVAC CIRCUITS SHALL PENETRATE THE ROOF INSIDE THE EQUIPMENT CURB IF POSSIBLE.



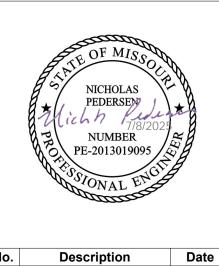


ELECTRICAL POWER KEYNOTES X

- 1. CONSULT LOCAL UTILITY FOR METER CAN REQUIREMENTS.
- 2. DWH AND DISCONNECT MOUNTED OVERHEAD.
- 3. INSTALL WEATHERPROOF GFCI RECEPTACLE FOR HVAC EQUIPMENT MAINTENANCE PER NEC 210.63.

GENERAL POWER NOTES

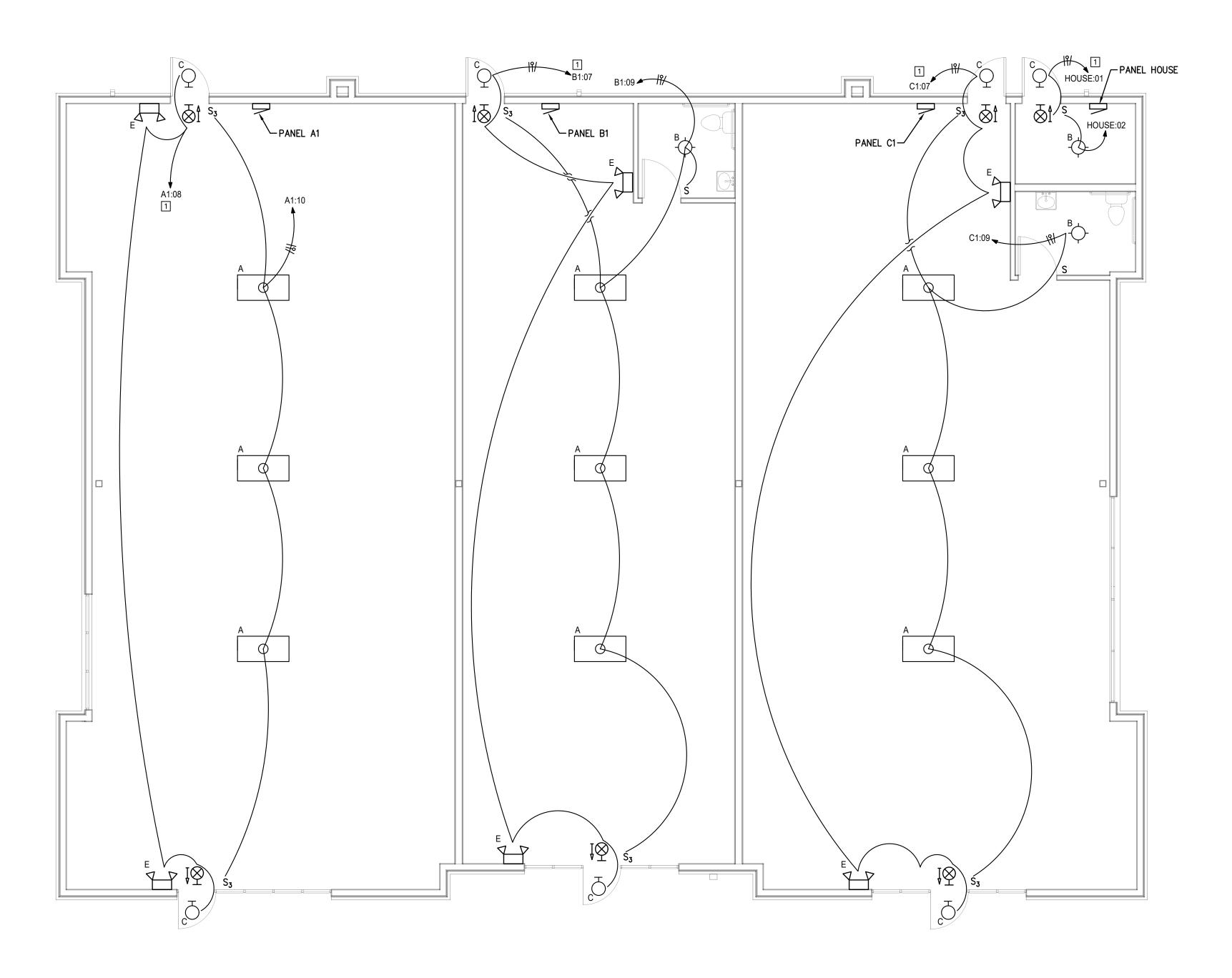
- A. CONTRACTOR SHALL INSPECT SITE THOROUGHLY TO FAMILIARIZE THEMSELVES WITH THE AREA OF WORK. ANY DISCREPANCIES BETWEEN THESE DOCUMENTS AND ACTUAL CONDITIONS SHALL BE REPORTED TO THE GC/ENGINEER FOR RESOLUTION PRIOR TO BID PRICING.
- B. COORDINATE EQUIPMENT INSTALLATION WITH PLUMBING, MECHANICAL, FIRE PROTECTION, AND STRUCTURAL CONDITIONS. DUCTWORK AND REFRIGERATION LINE LOCATIONS SHALL TAKE PRECEDENCE OVER ELECTRICAL CONDUIT/CABLE TRAYS.
- C. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A COMPLETE AND WORKING SYSTEM.



Revision Schedule

1 - 2 - 25 REVISION

2491 Project number 05.08.2025





LIGHTING SCHEDULE									
ID	DESCRIPTION	MANUFACTURER	MODEL	LUMENS	WATTS	ССТ	REQUIRED ACCESSORIES		
Α	2X4' RECESSED LED - HIGH OUTPUT	RAB	EZPANFA2X4/D10	6,104	50W	4000K	NONE		
В	SURFACE-MOUNT CEILING LIGHT	RAB	CRVFAS-11R-16-9CCT-120-W	1,150	16W	4000K	NONE		
С	EXTERIOR DOOR LIGHT	INVUE	*ENT-SA1A-740-U-T4FT-BZ-EBP/BPC	1,924	20.1W	4000K	EBP = BATTERY PACK; BPC = PHOTOCELL		
Ε	EMERGENCY LIGHT	ISOLITE	ELP-6V100-WH-MB-2-L66	N/A	100W	N/A	MR16 LAMP		
X	RED LED EXIT SIGN	DUAL-LITE	EVEURWE	N/A	2.01W	N/A	NONE		

*INCLUDES BUTTON-TYPE PHOTOCELL AND BATTERY PACK. SUBSTITUTIONS REQUIRE INTEGRAL PHOTOCELL AND BATTERY PACK.

LIGHTING KEYNOTES

INSTALL AS UNSWITCHED CIRCUIT FOR EXIT AND EMERGENCY LIGHTING. EXTERIOR DOOR EGRESS LIGHTING TO BE CONTROLLED BY PHOTOCELL.

GENERAL LIGHTING NOTES

- A. CONTRACTOR SHALL INSPECT SITE THOROUGHLY TO FAMILIARIZE THEMSELVES WITH THE AREA OF WORK. ANY DISCREPANCIES BETWEEN THESE DOCUMENTS AND ACTUAL CONDITIONS SHALL BE REPORTED TO THE GC/ENGINEER FOR RESOLUTION PRIOR TO BID
- B. COORDINATE EQUIPMENT INSTALLATION WITH PLUMBING, MECHANICAL, FIRE PROTECTION, AND STRUCTURAL CONDITIONS. DUCTWORK AND REFRIGERATION LINE LOCATIONS SHALL TAKE PRECEDENCE OVER ELECTRICAL CONDUIT/CABLE TRAYS.
- C. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A COMPLETE AND WORKING SYSTEM.





RCHARD

0

SUMMIT,



Description **Revision Schedule**

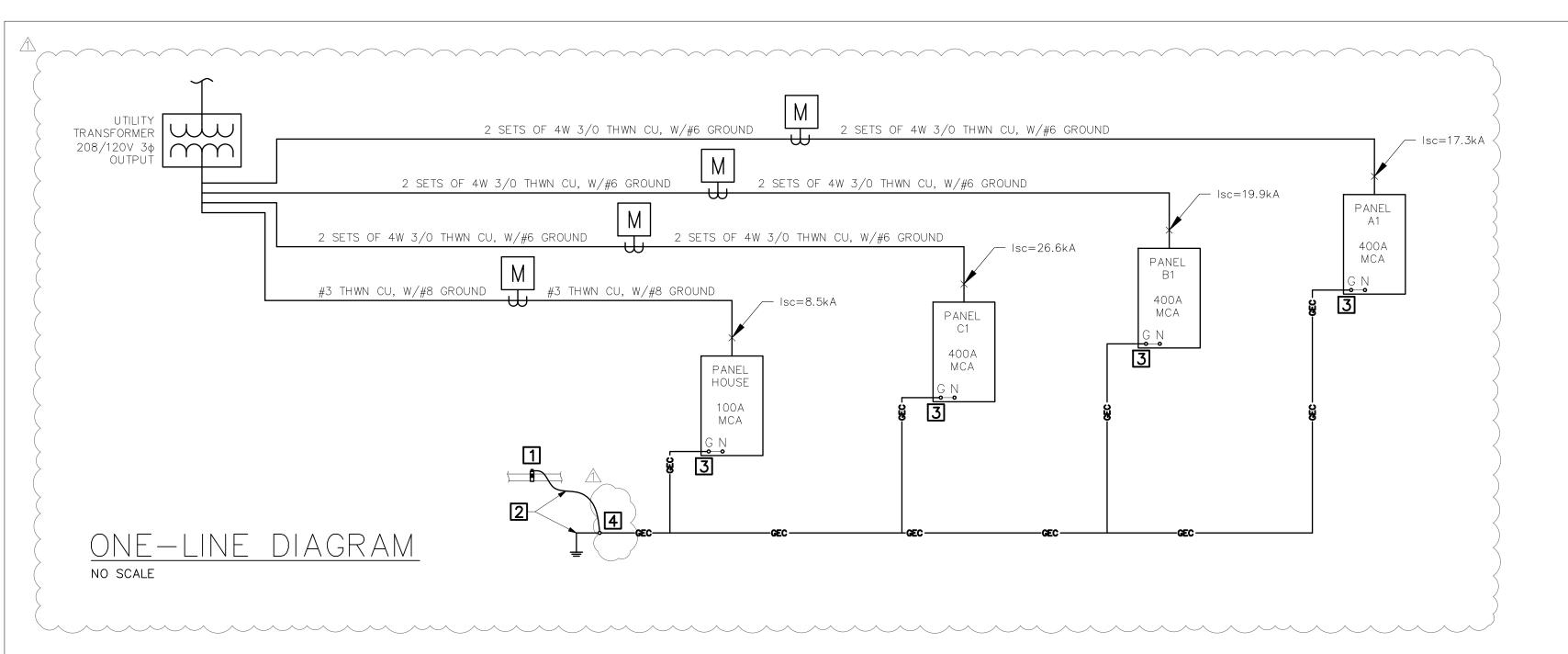
 \triangle 7-2-25 REVISION

Project number

E201

2491

05.08.2025



LOCATION: UNIT A

CB

AMP

0 | 1 | 0 | SPACE

0 | 1 | 0 | SPACE

0 1 0 SPACE

0 | 1 | 0 | SPACE

0 | 1 | 0 | SPACE

0 | 1 | 0 | SPACE

CONN. VA DF

3 | 50 | RTU-A2

1 0 SPACE

1.00

1.25

1.00

1.00

1.25

1.25

1.25

TOTAL DEMAND

29,186 VA

81 A

ENCL.: NEMA 1

20 EMERGENCY LIGHTING

1 20 AMBIENT LIGHTING

SERVES: GENERAL POWER

DESCRIPTION

PANEL: A1

1 RTU-A1

11 SPACE

13 SPACE

15 SPACE

17 SPACE

19 SPACE

21 SPACE

23 SPACE

25 SPACE

27 SPACE

29 SPACE

31 SPACE 33 SPACE

35 SPACE

37 SPACE

39 SPACE

41 SPACE

TOTAL PHASE A - VA: 9,809

TOTAL PHASE B - VA: 9,817

TOTAL PHASE C - VA: 9,487

TOTAL PNLBRD - VA: 29,113

CALCULATED AMPS: 81

7 RECEPTACLE

9 ROOFTOP MAINT. RECPT.

SUPPLIED FROM: UTILITY

MAIN SIZE/PHASE: 400A-3P

DESCRIPTION

BUS RATING: 400A MCB

VOLTS/PHASE: 208Y/120V, 3PH, 4W + G

4,744

VOLTSAMPS/PHASE

A B

4,744

150

0

LOAD TYPE

SIGN/DISPLAY

LARGE MOTOR

SHOW WINDOW

EXISTING

LTG TRACK

REFRIGERATION 0

4,744

142

FAULT CURRENT (Isc):

AMP

20 1

0 1

0 1

0 1

0 1

0 1

0 1

0 1

LOAD TYPE

COOLING

SUPP HEAT

MISC EQUIP

50 3 4,744

20 1 180

0 1 0

0 | 1 | 0

0 1 0

0 1 0

0 1 0

MIN AIC RATING:

A B C

4,744

180

0

0

0

0

DF

1.00

1.00

1.25

1.00

1.00

1.00

1.00/0.50

CONN. VA

SUBTOTAL 4,924 | 4,924 | 4,744 | 4,886 | 4,894 | 4,744 | SUBTOTAL

ELECTRICAL KEYNOTES

- 1. BOND TO METAL WATER PIPING PER NEC 250.104
- 2. GROUNDED CONDUCTORS SHALL BE #3AWG OR LARGER
- 3. BOND NEUTRAL TO GROUND AT THIS LOCATION
- 4. BOND ALL STRUCTURAL STEEL, METAL IN-GROUND SUPPORT STRUCTURES, AND OTHER GROUNDING ELECTRODES PRESENT IN THE BUILDING ACCORDING TO

GENERAL ELECTRICAL NOTES

- A. CONTRACTOR SHALL INSPECT SITE THOROUGHLY TO FAMILIARIZE THEMSELVES WITH THE AREA OF WORK. ANY DISCREPANCIES BETWEEN THESE DOCUMENTS AND ACTUAL CONDITIONS SHALL BE REPORTED TO THE ARCHITECT/ENGINEER FOR RESOLUTION PRIOR TO BID
- B. COORDINATE ELECTRICAL INSTALLATION WITH PLUMBING, MECHANICAL, FIRE PROTECTION, AND STRUCTURAL
- C. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A COMPLETE AND WORKING SYSTEM.

CONDITIONS.

TIC:
IEngineering LL 7 Pennslyvannia Ave.

PANEL: C1 PANEL: B1 VOLTS/PHASE: 208Y/120V, 3PH, 4W + G SUPPLIED FROM: UTILITY LOCATION: UNIT B SUPPLIED FROM: UTILITY VOLTS/PHASE: 208Y/120V, 3PH, 4W + G LOCATION: UNIT A BUS RATING: 400A MCB FAULT CURRENT (Isc): SERVES: GENERAL POWER BUS RATING: 400A MCB FAULT CURRENT (Isc): SERVES: GENERAL POWER MAIN SIZE/PHASE: 400A-3P MIN AIC RATING: ENCL.: NEMA 1 MIN AIC RATING: MAIN SIZE/PHASE: 400A-3P ENCL.: NEMA 1

СКТ	DESCRIPTION	СВ	Р		V	OLTSAM	PS/PHAS	E		Р	СВ	DESCRIPTION	СК
CKI	DESCRIPTION	AMP	Г	Α	В	С	Α	В	С	F	AMP	DESCRIPTION	
1	RTU-B	40	3	2,906			180			1	20	RECEPTACLE	2
3					2,906			18		1	15	EXHAUST FAN EF-B	4
5						2,906			1,500	2	20	WATER HEATER DHW-B	
7	EMERGENCY LIGHTING	20	1	142			1,500	~~~			\\\\	V-VV	
9	AMBIENT LIGHTING	20	1		166			180		1	20	ROOFTOP MAINT. RECPT.	1
11	SPACE	0	1			0			\bigcirc 0 \bigcirc	1	\^o_	SPACE SPACE	1
13	SPACE	0	1	0			0			1	0	SPACE	
15	SPACE	0	1		0			0		1	0	SPACE	
17	SPACE	0	1			0			0	1	0	SPACE	
19	SPACE	0	1	0			0			1	0	SPACE	
21	SPACE	0	1		0			0		1	0	SPACE	
23	SPACE	0	1			0			0	1	0	SPACE	
25	SPACE	0	1	0			0			1	0	SPACE	
27	SPACE	0	1		0			0		1	0	SPACE	
29	SPACE	0	1			0			0	1	0	SPACE	
31	SPACE	0	1	0			0			1	0	SPACE	
33	SPACE	0	1		0			0		1	0	SPACE	
35	SPACE	0	1			0			0	1	0	SPACE	
37	SPACE	0	1	0			0			1	0	SPACE	
39	SPACE	0	1		0			0		1	0	SPACE	
41	SPACE	0	1			0			0	1	0	SPACE	

DF

1.00

1.00

1.25

1.00

1.00

1.00

1.00/0.50

LOAD TYPE

EXISTING

LTG TRACK

SIGN/DISPLAY

LARGE MOTOR

REFRIGERATION 0

SHOW WINDOW 0

CONN. VA DF

1.25

1.00

1.25

1.25

1.25

TOTAL DEMAND

12,481 VA

35 A

CONN. VA

3,018

	СКТ	DESCRIPTION	СВ	Р		V	OLTSAM	PS/PHAS	E		p	СВ	DESCRIPTION	СКТ
	CKI	DESCRIPTION	AMP	P	Α	В	С	Α	В	С	P	AMP	DESCRIPTION	CKI
	1	RTU-C	80	3	6,521			180			1	20	RECEPTACLE	2
	3					6,521			18		1	15	EXHAUST FAN EF-C	4
	5						6,521			1,500	2	20	WATER HEATER DWH-C	6
	7	EMERGENCY LIGHTING	20	1	142			1,500	~					8
	9	AMBIENT LIGHTING	20	1		166			180		1	20	ROOFTOP MAINT. RECPT.	10
	11	SPACE	0	1			0			0	1	<u></u>	SPACE	12
	13	SPACE	0	1	0			0			1	0	SPACE	14
	15	SPACE	0	1		0			0		1	0	SPACE	16
	17	SPACE	0	1			0			0	1	0	SPACE	18
	19	SPACE	0	1	0			0			1	0	SPACE	20
	21	SPACE	0	1		0			0		1	0	SPACE	22
	23	SPACE	0	1			0			0	1	0	SPACE	24
	25	SPACE	0	1	0			0			1	0	SPACE	26
	27	SPACE	0	1		0			0		1	0	SPACE	28
	29	SPACE	0	1			0			0	1	0	SPACE	30
	31	SPACE	0	1	0			0			1	0	SPACE	32
	33	SPACE	0	1		0			0		1	0	SPACE	34
	35	SPACE	0	1			0			0	1	0	SPACE	36
	37	SPACE	0	1	0			0			1	0	SPACE	38
	39	SPACE	0	1		0			0		1	0	SPACE	40
	41	SPACE	0	1			0			0	1	0	SPACE	42
,			CLIDT	ОТАТ	6 662	6 607	6 521	1 690	100	1 500	CLIDT	OTAL		

SUBTOTAL	6,663	6,687	6,521	1,680	198	1,500	SUBTOTAL

TOTAL PHASE A - VA: 8,343	LOAD TYPE	CONN. VA	DF	LOAD TYPE	CONN. VA	DF	
AMPS: 23	COOLING	19,562	1.00	REFRIGERATION	0	1.00	
TOTAL PHASE B - VA: 6,884	HEATING	0	1.00	SIGN/DISPLAY	0	1.25	
AMPS: 19	LIGHTING	308	1.25	KITCHEN	0	1.00	TOTAL DEMAND
TOTAL PHASE C - VA: 8,021	RECEPTACLES	360	1.00/0.50	EXISTING	0	1.00	23,325 VA
AMPS: 22	MOTORS	0	1.00	LARGE MOTOR	0	1.25	65 A
TOTAL PNLBRD - VA: 23,248	SUPP HEAT	0	1.00	SHOW WINDOW	0	1.25	
CALCULATED AMPS: 65	MISC EQUIP	3,018	1.00	LTG TRACK	0	1.25	

	¥
$ \mathcal{C} $	SE
FOR	OR
DING	
BUILI	Σ
EW	

R
O
$\mathbf{\Sigma}$
\mathbf{Z}
S
$\mathbf{G}_{\mathbf{J}}$

SUMMIT,

PEDERSEM NUMBER 小る、PE-2013019095

No.	Description	

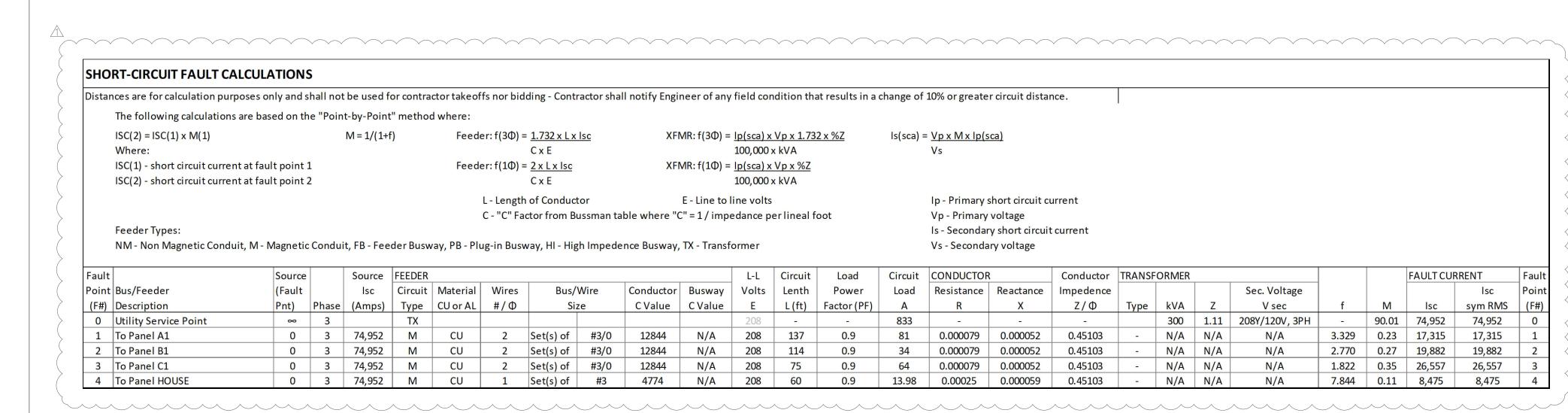
Revision Schedule

 \triangle 7-2-25 REVISION

Project number

05.08.2025

2491



TOTAL PHASE A - VA: 4,728

TOTAL PHASE B - VA: 3,270

TOTAL PHASE C - VA: 4,406

TOTAL PNLBRD - VA: 12,404

CALCULATED AMPS: 34

AMPS: 13

AMPS: 12

LOAD TYPE

HEATING

RECEPTACLES

SUPP HEAT

MISC EQUIP

CLII	DDITED EDOM: DD2				VOLTS	/DUACE.	120/24	0\/ 1DU	2141 - C	10	CATIONI. OVA	IEDIC DOOM	1	
301	PPLIED FROM: DP2		VOLTS/PHASE: <u>120/240V, 1PH, 3W + G</u> FAULT CURRENT (Isc): 32.6kA							CATION: OWN			_	
	BUS RATING: 100A MAIN SIZE 100A		FAC				-	SERVES: GENE		۲	-			
	IVIATIN SIZE 100A	1-1P		MIN AIC RATING: 35kA ENCL.: NEMA 1										
0.7			СВ	_		VA/P	HASE			СВ				0.45
CKT	DESCRIPT	ION	AMP	Р	Α	В	Α	В	P	AMP				CK
1	EMERGENCY-LIGHTI	NG	20	_1_	22		16		1	20	AMBIENT LIGH	HTING		2
3	HEATER: UH-1		20	2		1,654		0	1	0	SPACE			4
5					1,654		/ o		1	0	SPACE			6
7	SPACE		\sim	^1		0		0	1	0	SPACE			8
9	SPACE		0	1	0		0		1	0	SPACE			10
11	SPACE		0	1		0		0	1	0	SPACE			12
13	SPACE		0	1	0		0		1	0	SPACE			14
15	SPACE		0	1		0		0	1	0	SPACE			16
					T		Г							
	S	UBTOTAL	-		1,676	1,654	16	0			SL	IBTOTAL		
TC	OTAL PHASE A - VA:	1 692				LOAD		CONN \	/ <u>/</u> DF		LOAD	CONN VA	DF	
	AMPS:	7				COOLING		0	1.00		REFRIGERATIO		1.00	_
TC	OTAL PHASE B - VA:	1.654				HEATING		0	1.00		SIGN/DISPLAY		1.25	
	AMPS:	7				LIGHTIN		38	1.25		KITCHEN	0	1.00	
						RECEPTA		0	00/0.		EXISTING	0	1.00	
		Γ	TOTAL DEM	AND		MOTORS		0	1.00		LARGE MOTO	R 0	1.25	

MISC EQUIP

3,307 1.00

LTG TRACK

0 1.25

14 A

CONNECTED AMPS: 13.94