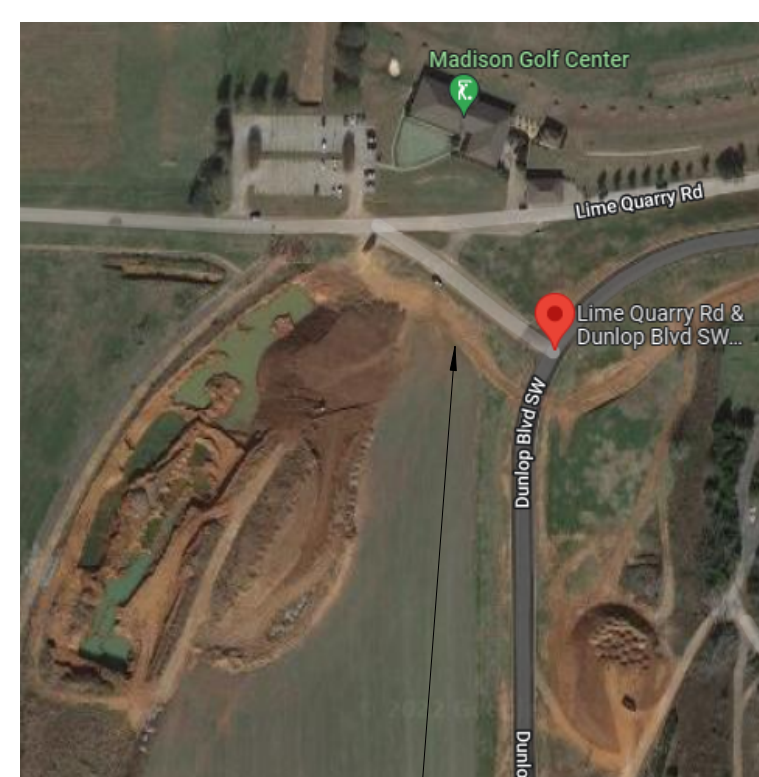
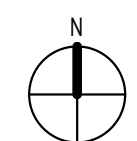


VICINITY MAP



PROJECT SITE



PROJECT NARRATIVE:

This project narrative is provided as a brief outline of the proposed scope of building improvements for this Project. The Project consists of the construction of a new multi-unit residential rental apartment complex in Madison, AL, accessed off of Dunlop Blvd and Lime Quarry Rd. The program includes a total of 270 dwelling units of 7 different unit types (1, 2, & 3 bedroom) with solariums & balconies. The dwelling units are distributed among 6 residential buildings of 2 different building types. The residential buildings are designed to provide 4 floors of dwelling units. The buildings are classified as (V/A) construction, and are sprinklered to the requirements of NFPA13R systems. The residential and amenity buildings are designed as wood frame structures that include engineered truss components for both framed floors and roofs. The buildings are placed on concrete slab on grade foundations with integral thickened edges and grade beams. The Project program also includes a Clubhouse, a Fitness Center & a Trash Enclosure, which are submitted under a separate Cover. This Project Scope also includes site engineering and landscape improvements that are submitted under a separate cover.

SYMBOL KEY:

Table with 3 columns: Symbol, Description, and Reference. Includes symbols for Door Symbol, Window Symbol, Wall Tag, Grid Line Target, Room Tag, Title, Elevation References, Section References, Detail References, Interior Elevations, Level Reference, Roof Slope Arrow, Roof Slope, Accessory Tag, Note Tag, Level Change, and Revision Mark.

DEFERRED SUBMITTALS:

- 1) Deferral of any submittal items shall have the prior approval of the Building Official having jurisdiction.
2) Submittal documents for deferred submittal items shall be submitted to the Entity designated below for the project who shall review them. These will then be forwarded by the Owner to the Building Official having jurisdiction with a notation indicating that the deferred submittal documents have been reviewed and that they have been found to be in general compliance with the design of the project.
3) The deferred submittal items shall not be installed until their design and submittal documents have been approved.
LIST (INCLUDING BUT NOT LIMITED TO):
A) BUILDING RAILINGS & GUARDRAILS REVIEW BY ARCHITECT
B) FIRE ALARM SYSTEM REVIEW BY ARCHITECT
C) AUTOMATIC FIRE SUPPRESSION (SPRINKLER) SYSTEM REVIEW BY ARCHITECT
D) PRE-ENGINEERED (WOOD) FLOOR & ROOF TRUSS SYSTEMS REVIEW BY ARCHITECT
E) BUILDING IDENTIFICATION AND WAYFINDING SIGNAGE REVIEW BY OWNER
F) SITE FENCING REVIEW BY LANDSCAPE ARCHITECT

THE ROBERT MADISON, ALABAMA

Table listing project team members: OWNER/DEVELOPER (ROHDIE MADISON, LLC), ARCHITECT (FUGLEBERG KOCH PLLC), CIVIL ENGINEER (MULLINS, LLC), STRUCTURAL (ASE ENGINEERING SERVICES, INC.), MECHANICAL/ELECTRICAL/PLUMBING (JOSEPH, LAWRENCE & CO), LANDSCAPE ARCHITECT (TBD), INTERIOR DESIGN (ALYSSA ROHDIE), CONTRACTOR (ESSIAN CONSTRUCTION & DEVELOPMENT).

ISSUE HISTORY

Table with columns: No., Date, Description. Shows one entry for 04/15/2022, PERMIT SUBMITTAL.

REVISION HISTORY

Table with columns: No., Date, Description. Currently empty.

Logo for FUGLEBERG KOCH, 2555 Temple Trail, Winter Park, FL 32789, (407) 629-0595, www.fuglebergkoch.com, AA26002103

Professional Engineer Seal for Michael Gove, State of Alabama, License No. 8234, dated 4/15/22.

MICHAEL GOVE, ESM

ARCHITECTURAL ABBREVIATIONS

Large table of architectural abbreviations organized by letter (A through V), listing terms like ABOVE FLOOR, BRICK, CONTRACTOR, etc.

THE ROBERT MADISON, MADISON, ALABAMA. Includes fields for Drawn, Checked, Approved, Date, and Project #.

COVER SHEET A0.01a

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A0.03	ACCESSIBLE DATA AND DETAILS		04/15/2022
A0.12	LIFE SAFETY PLANS - BUILDING TYPE B		04/15/2022
A0.13	LIFE SAFETY PLANS - BUILDING TYPE B		04/15/2022
A0.20	LIFE SAFETY PLANS - UNIT PLANS		04/15/2022
A0.21	LIFE SAFETY PLANS - UNIT PLANS		04/15/2022
A0.30	UL REFERENCE DIRECTORY WALL SYSTEMS		04/15/2022
A0.31	UL REFERENCE DIRECTORY ROOF SYSTEMS		04/15/2022
A0.32	UL REFERENCE DIRECTORY WALL SYSTEMS		04/15/2022
A0.33	UL REFERENCE DIRECTORY FLOOR SYSTEM		04/15/2022
A0.34	UL REFERENCE DIRECTORY FLOOR SYSTEMS		04/15/2022
A0.35	UL REFERENCE DIRECTORY ROOF SYSTEMS		04/15/2022
A0.36	UL REFERENCE DIRECTORY FLOOR PENETRATIONS		04/15/2022
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C2	SITE PLAN		
C2.1	SITE PLAN		
C2.2	SITE PLAN		
C2.3	KEYNOTE PLAN		
C2.4	OVERALL SITE PLAN		
C3	WATER INFRASTRUCTURE PLAN		
C4.1	STORM INFRASTRUCTURE PLAN		
C4.2	STORM INFRASTRUCTURE PLAN		
C4.3	STORM INFRASTRUCTURE PROFILES		
C5	SANITARY SEWER PLAN & PROFILE		
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C6	OVERALL GRADING PLAN		
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A3.04a	UNIT 2B - 2BR. UNIT PLAN		04/15/2022
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GRAND TOTAL : 136			


ISSUE HISTORY

No.	Date	Description
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REVISION HISTORY

No.	Date	Description
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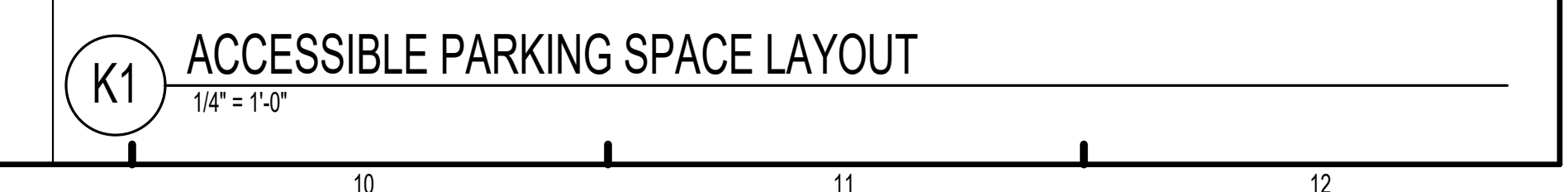
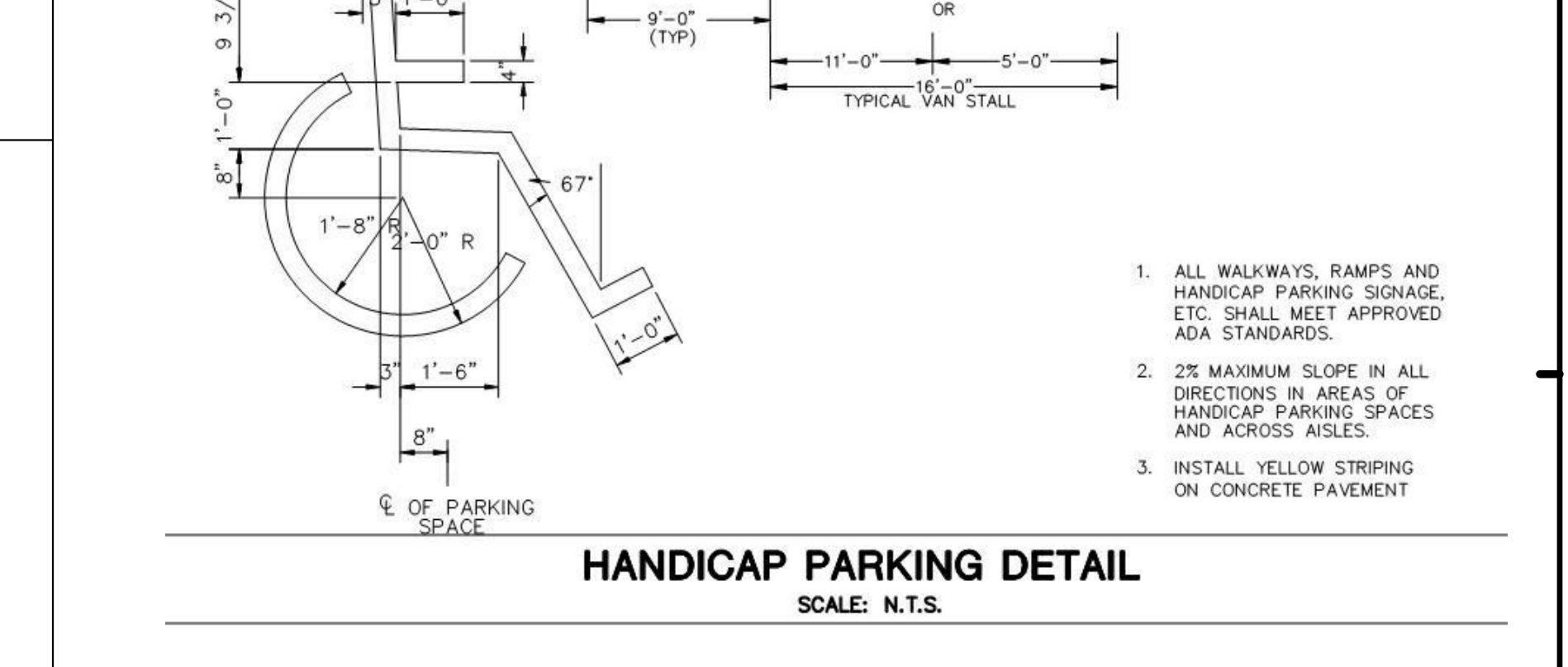
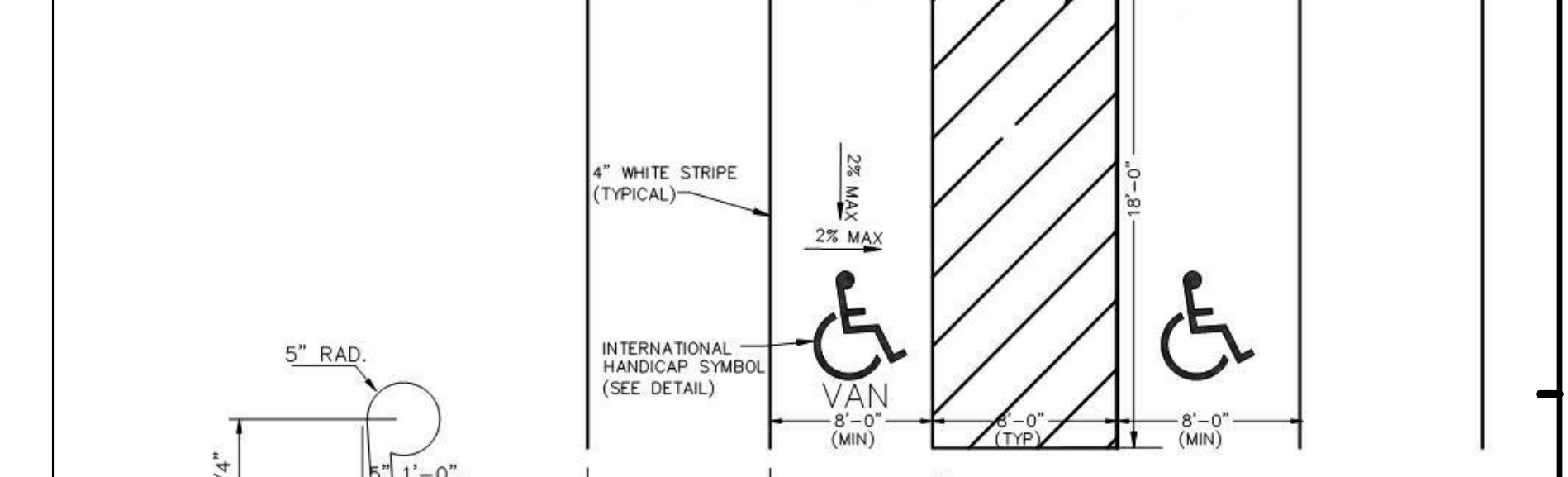
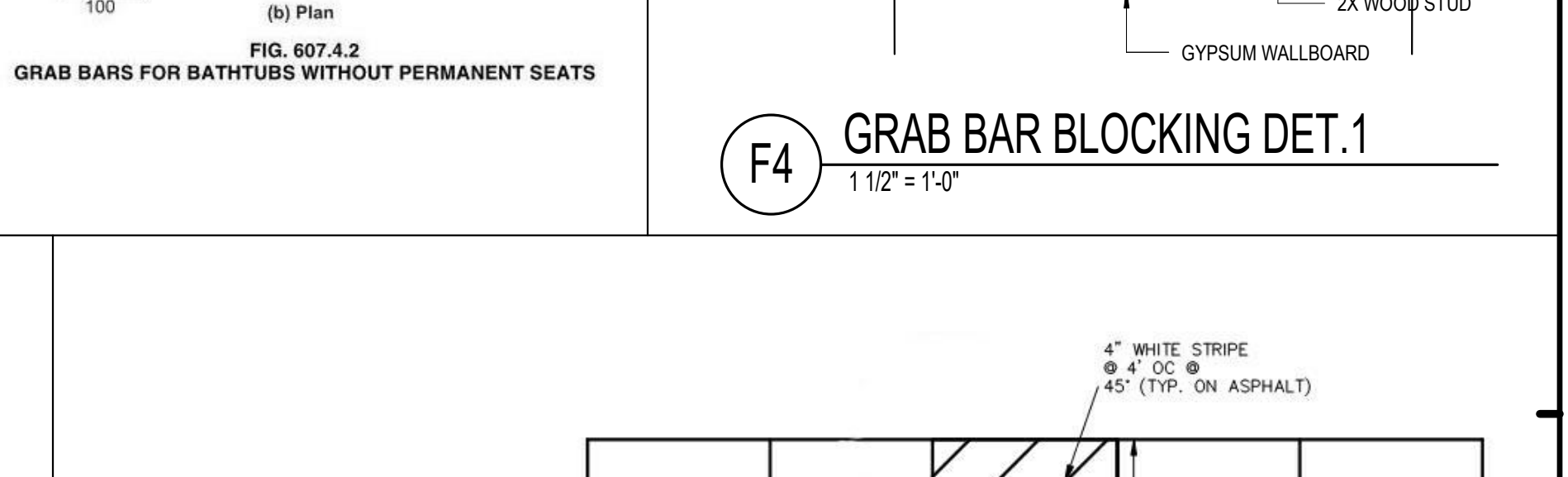
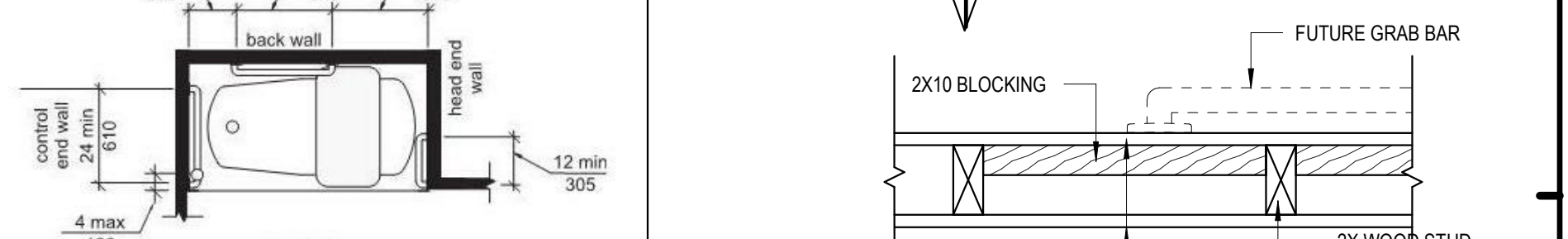
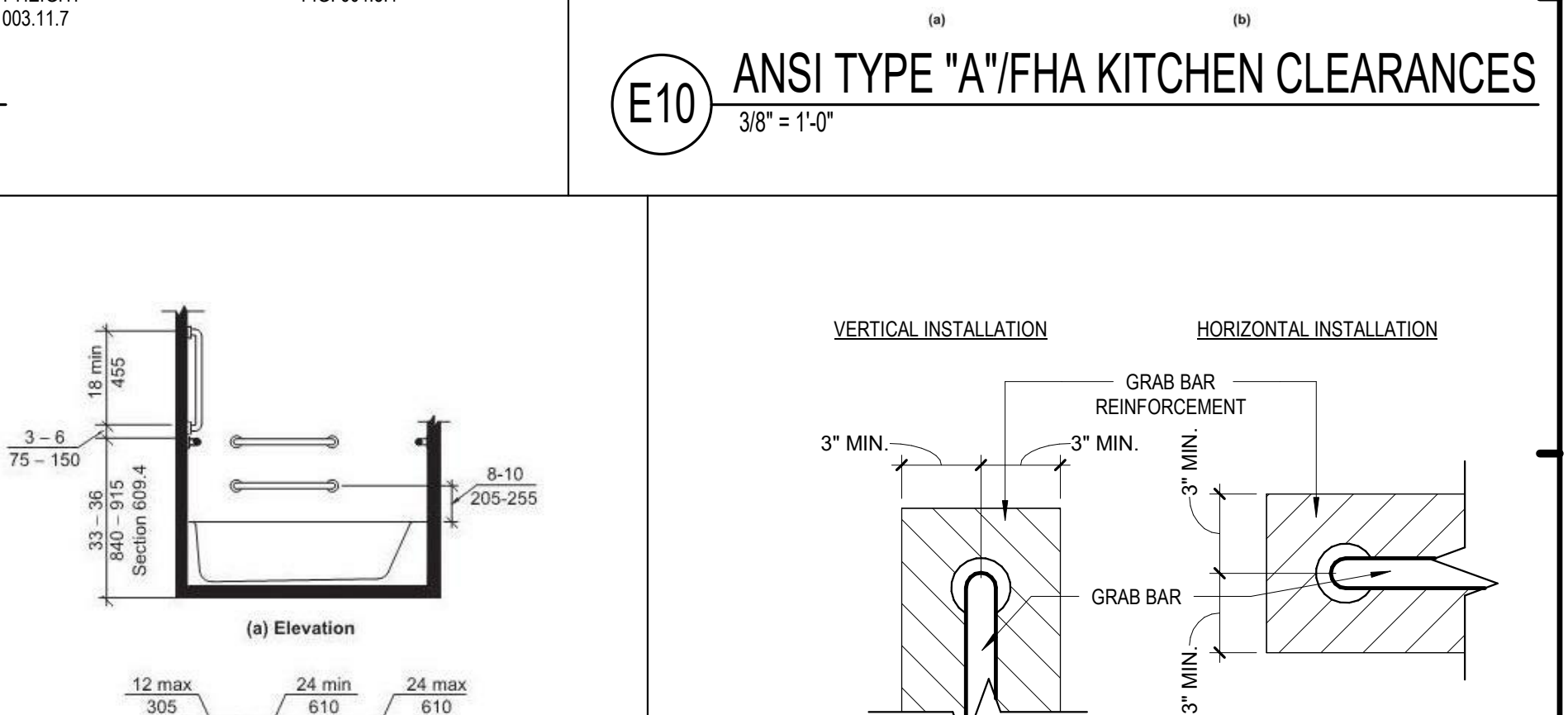
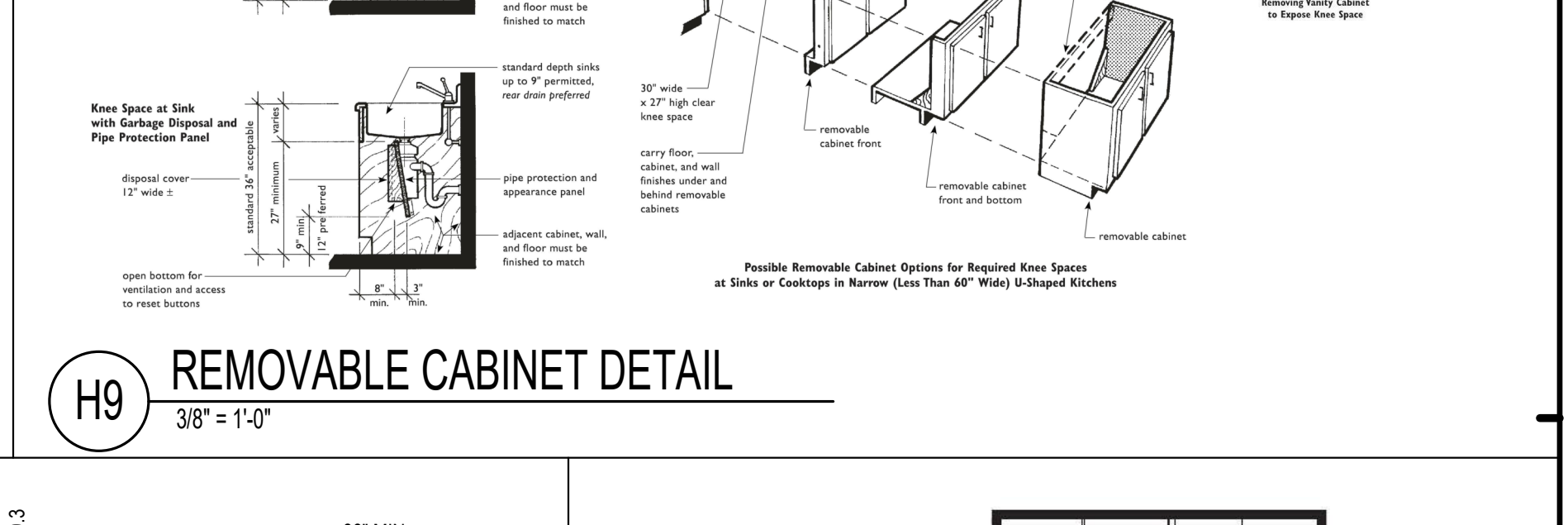
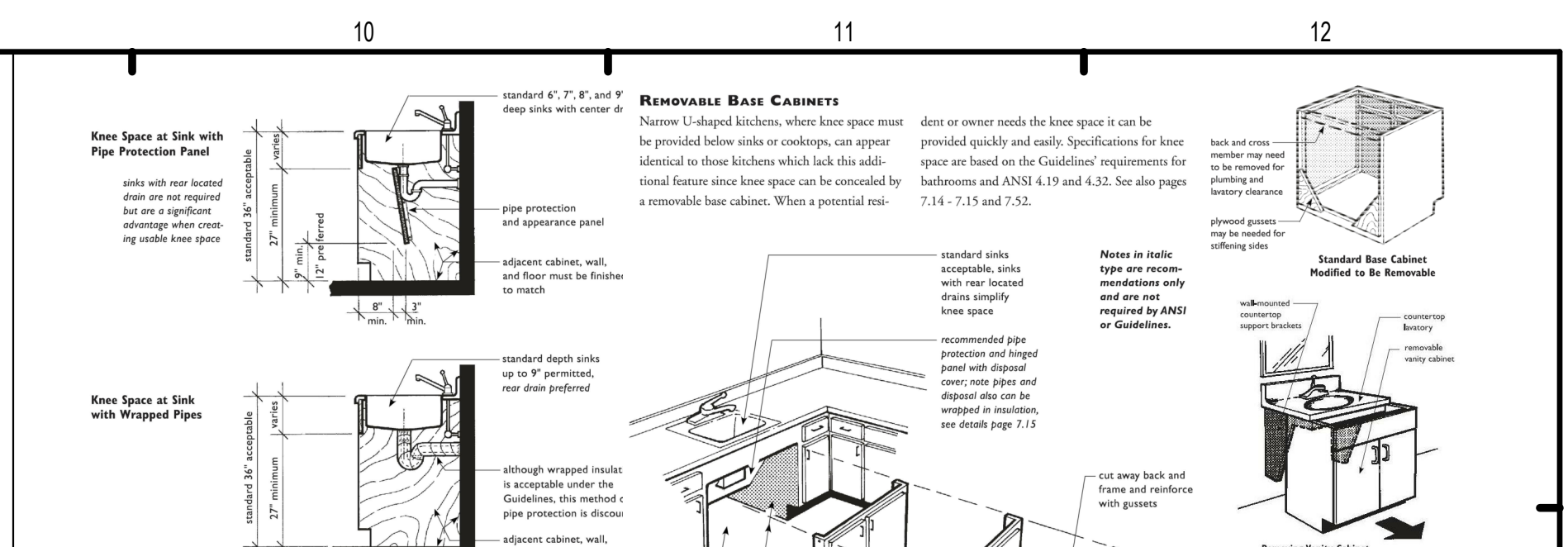
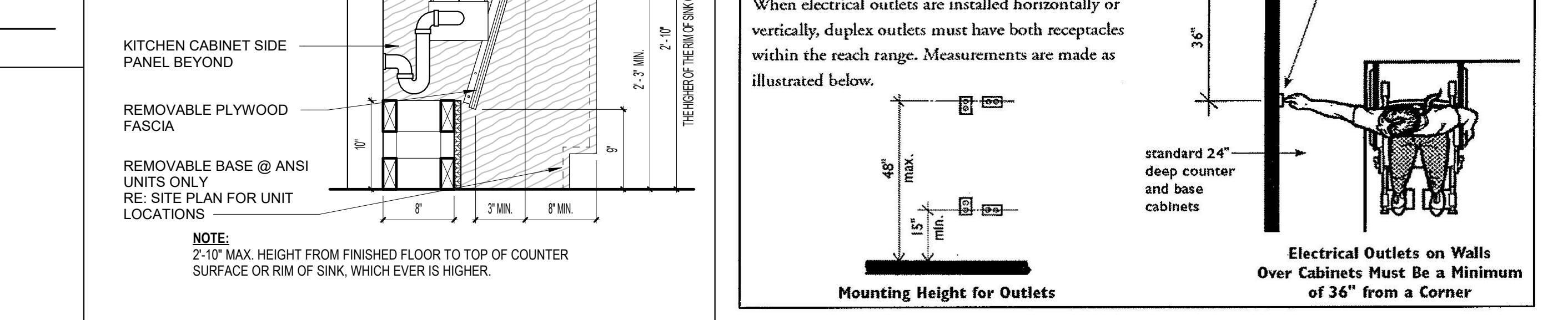
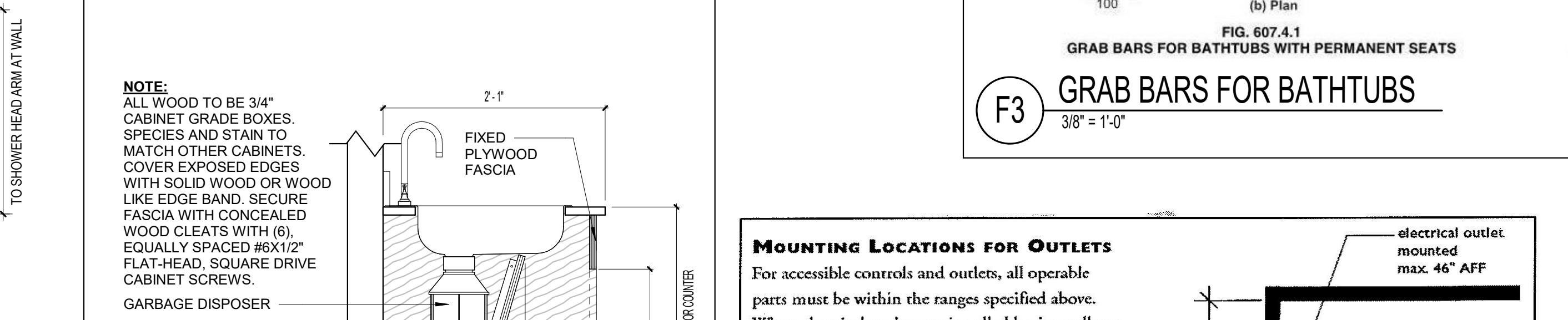
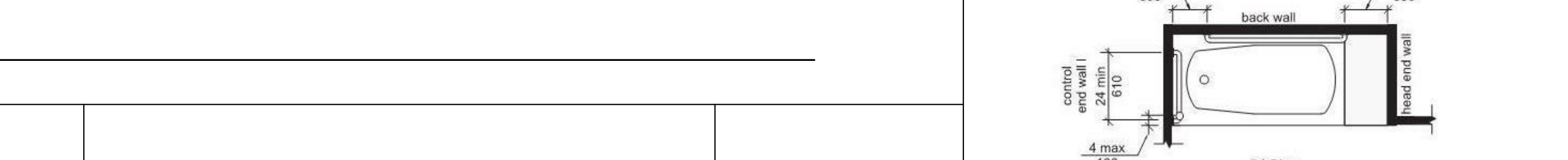
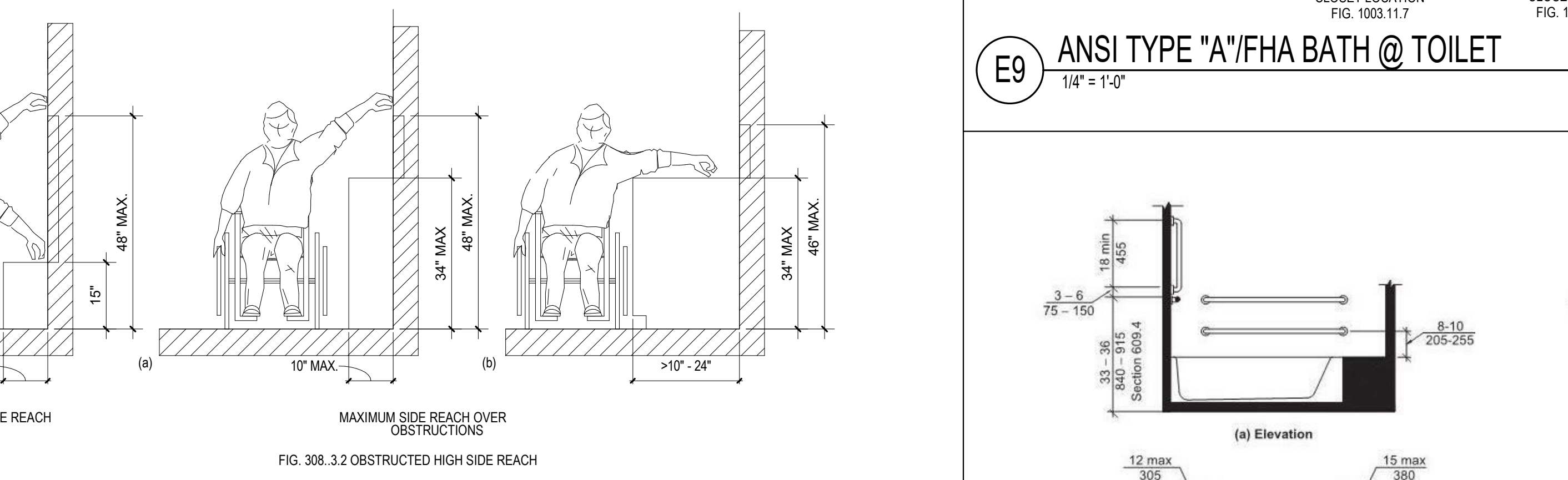
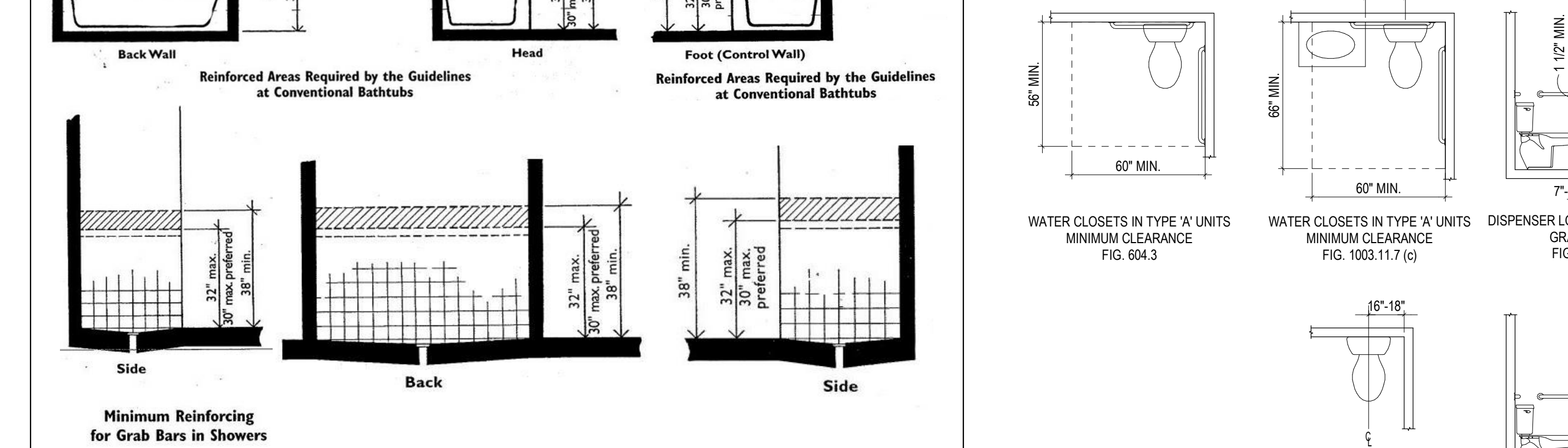
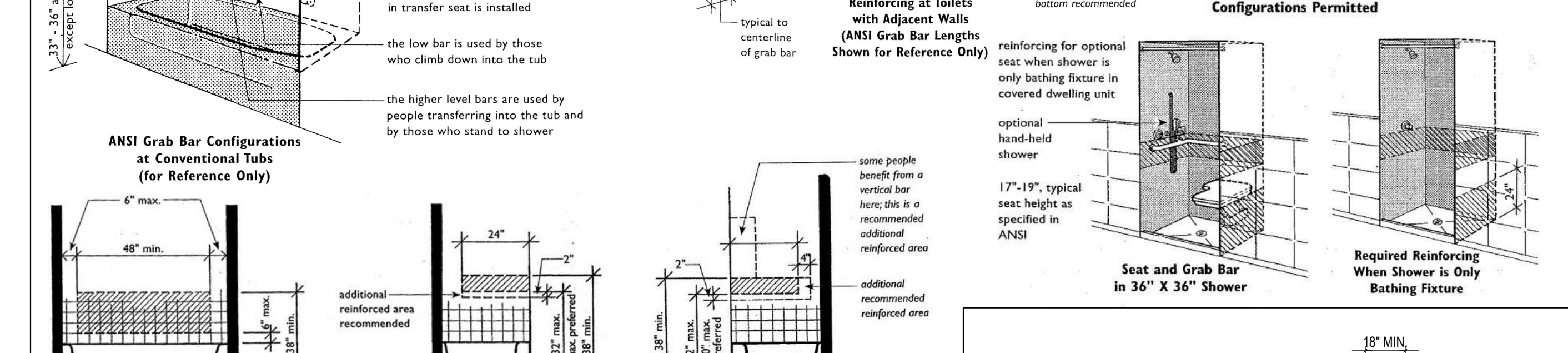
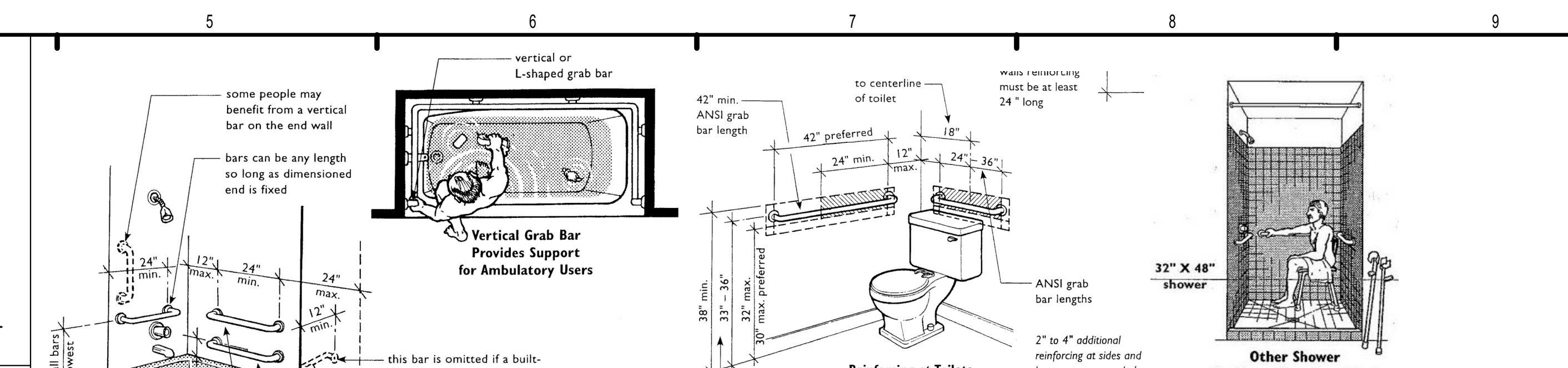
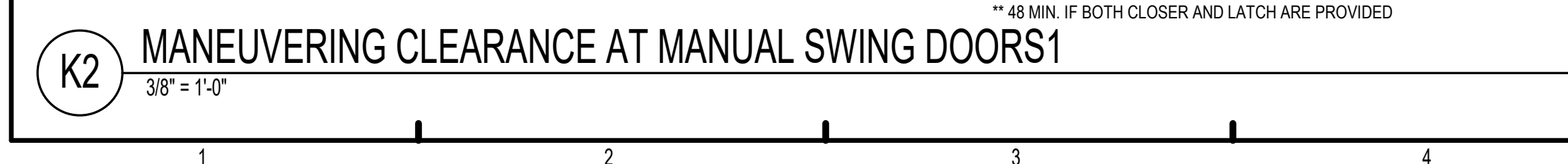
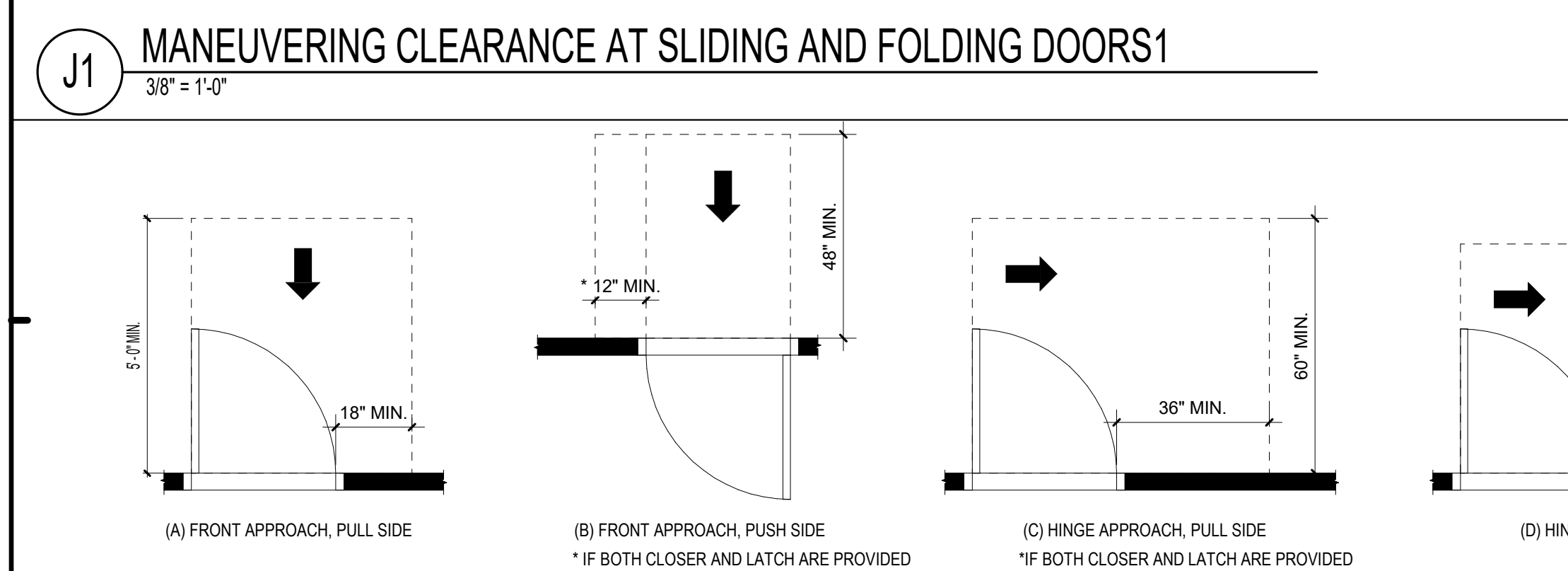
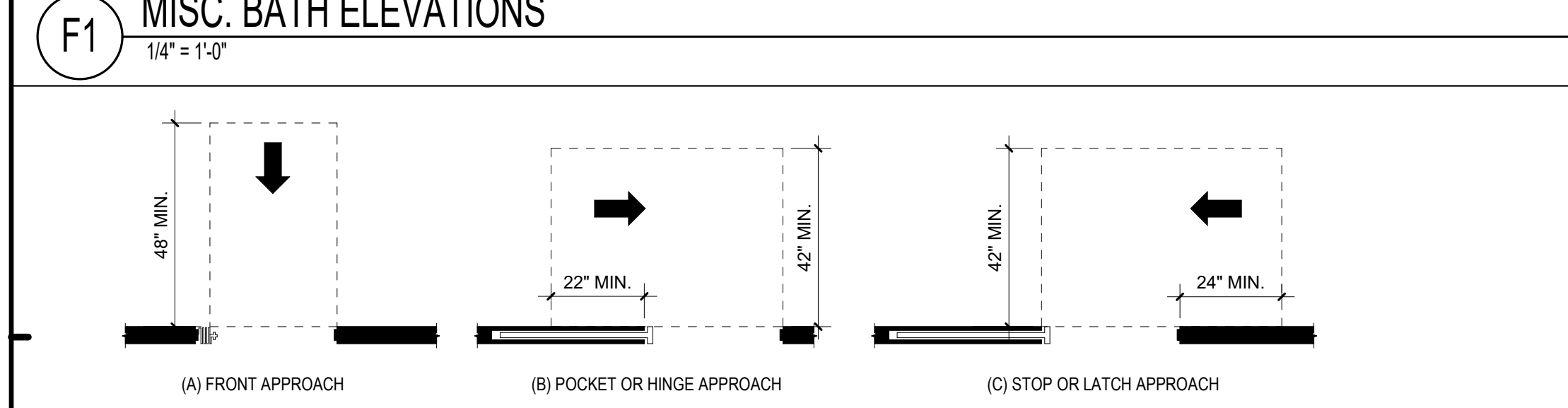
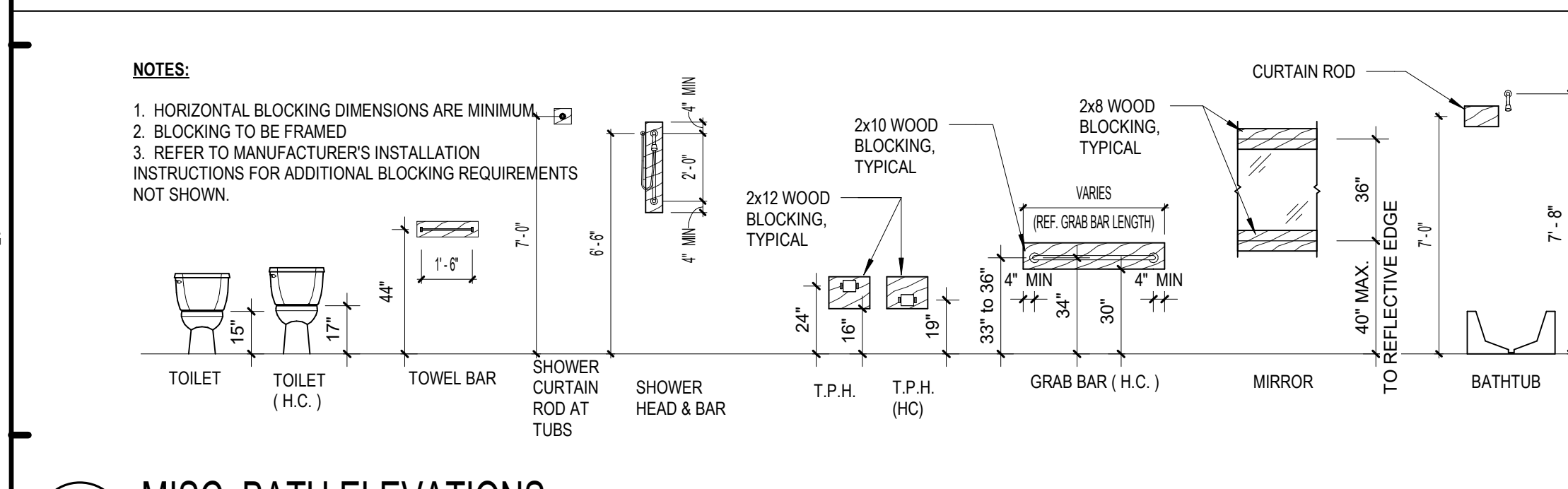
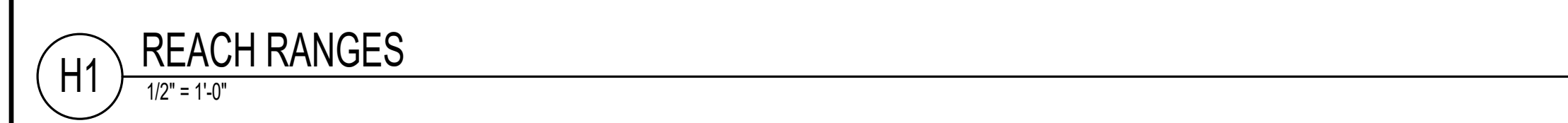
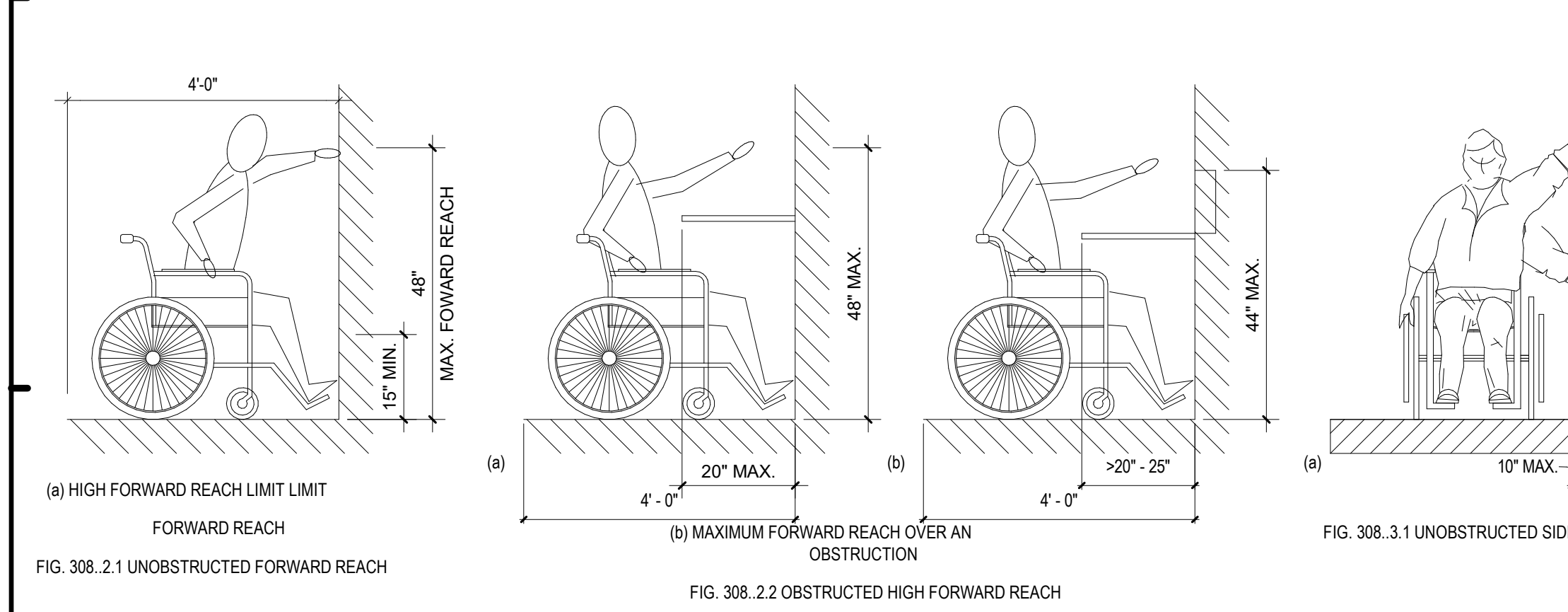
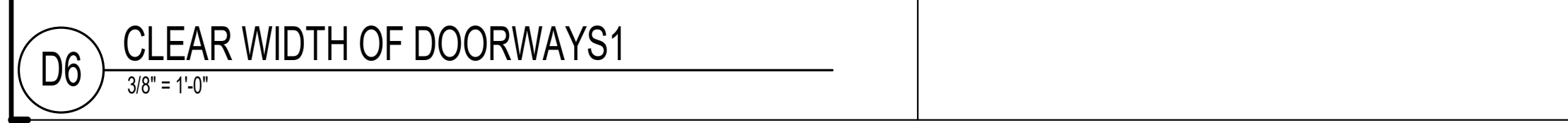
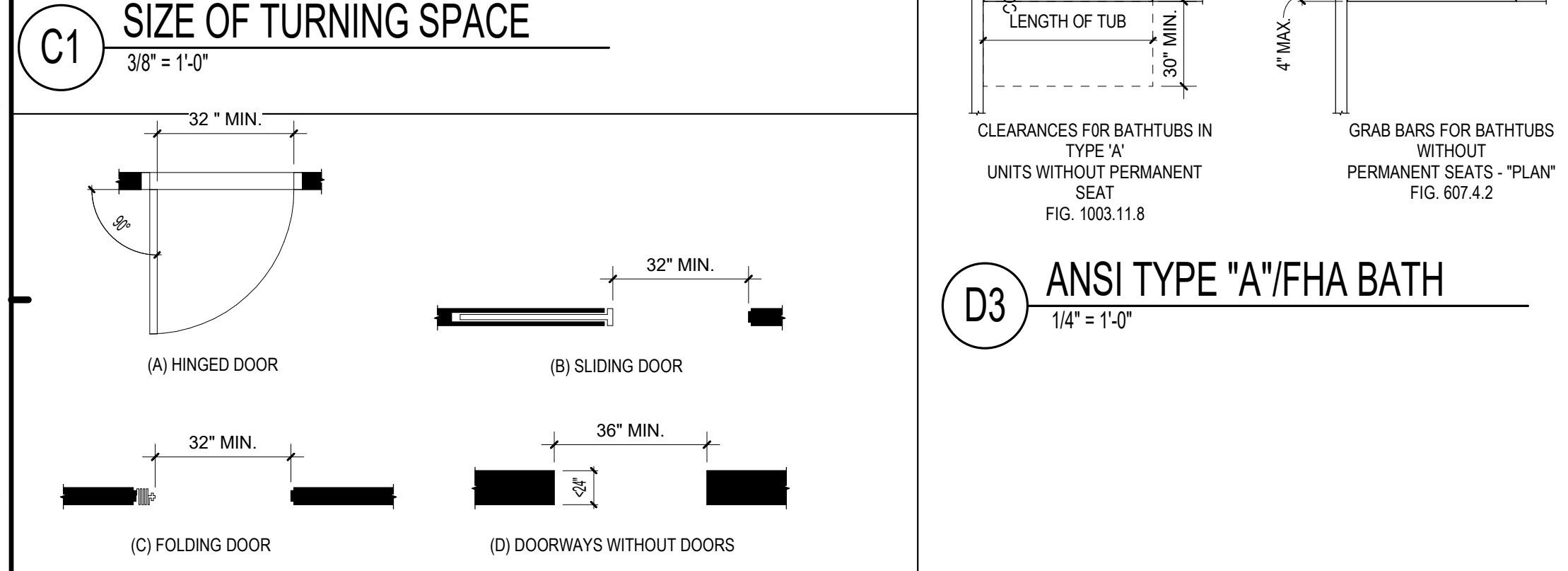
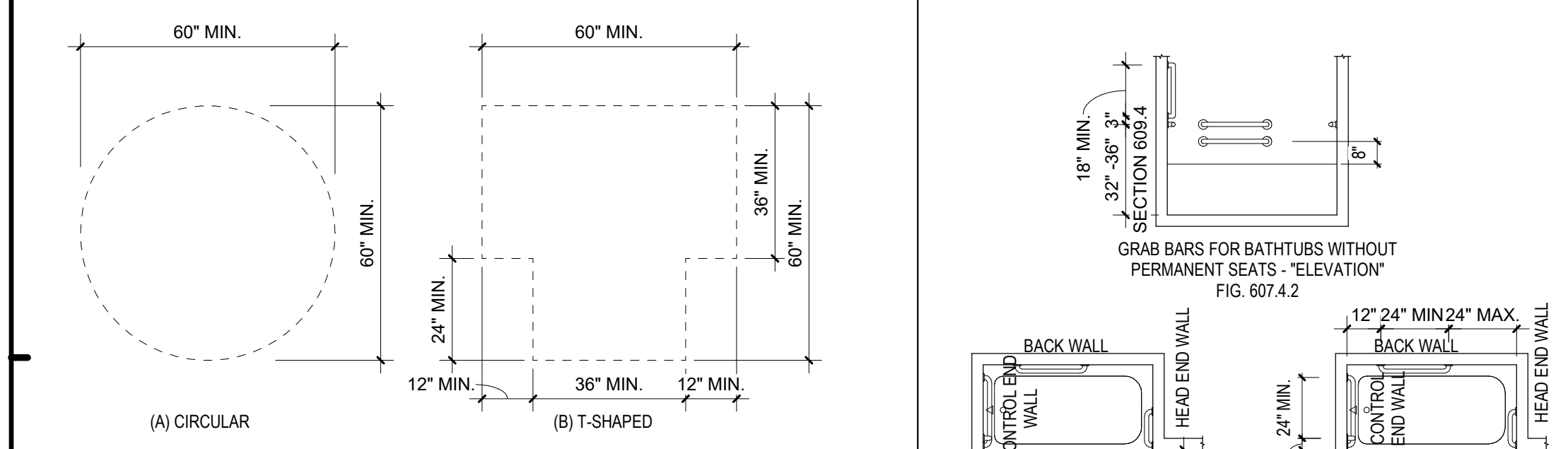
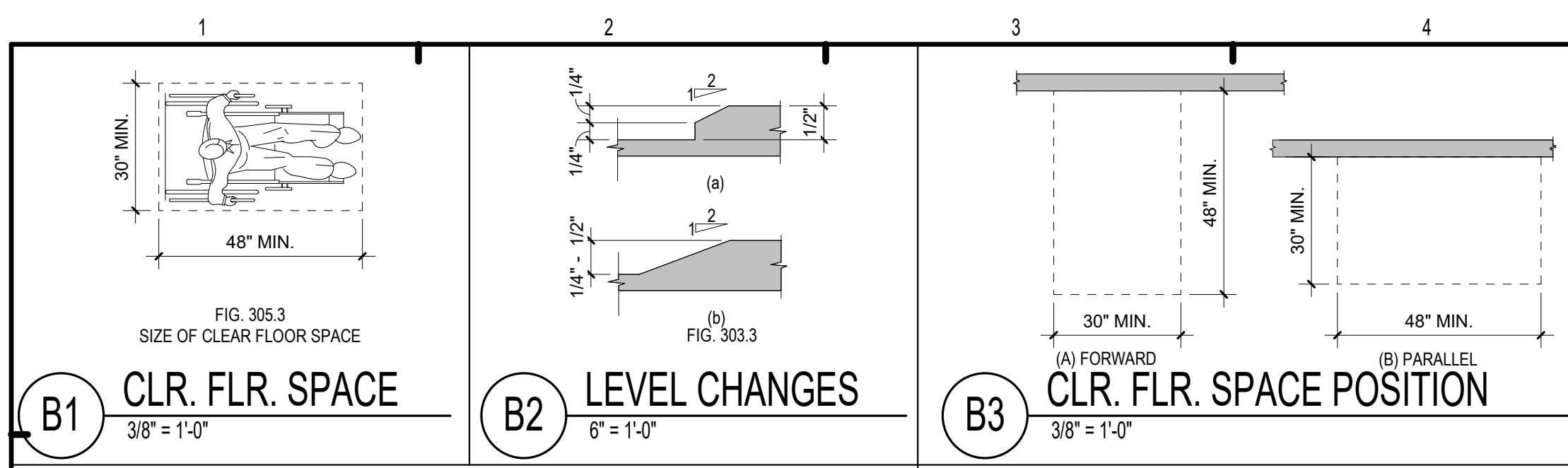

FUGLEBERG KOCH
 2555 Temple Trail, Winter Park, FL 32789 (407) 629-0595
 www.fuglebergkoch.com AA26002103

CONSULTANT

 MICHAEL DOVE
 PE

Drawn	MB
Checked	JK
Approved	MS
Date	04/15/2022
Project #	572

SHEET INDEX

A0.01b



ISSUE HISTORY		
No.	Date	Description
1	04/15/2022	PERMIT SUBMITTAL
REVISION HISTORY		
No.	Date	Description

ISSUE HISTORY		
No.	Date	Description
1	04/15/2022	PERMIT SUBMITTAL
REVISION HISTORY		
No.	Date	Description

FUGLEBERG KOCH
 2555 Temple Trail, Winter Park, FL 32789 (407) 629-0595
 www.fuglebergkoch.com AA26002103

CONSULTANT

STATE OF ALABAMA
8234
 REGISTERED ARCHITECT
 4/15/22

MICHAEL LOVE
 BSM

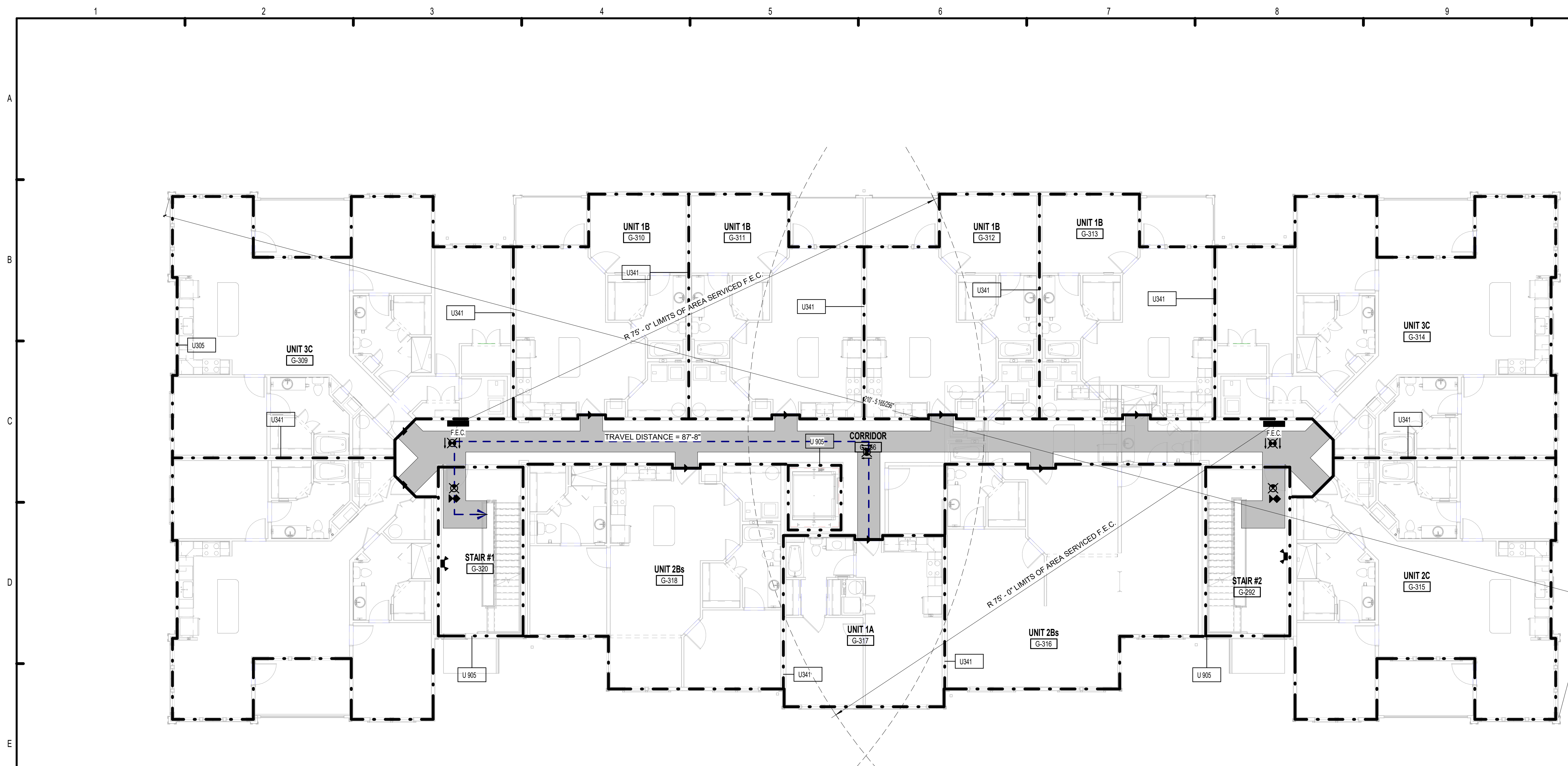
THE ROBERT MADISON
 MADISON, ALABAMA

Drawn: MB
 Checked: JK
 Approval: MS
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 Project #: 572

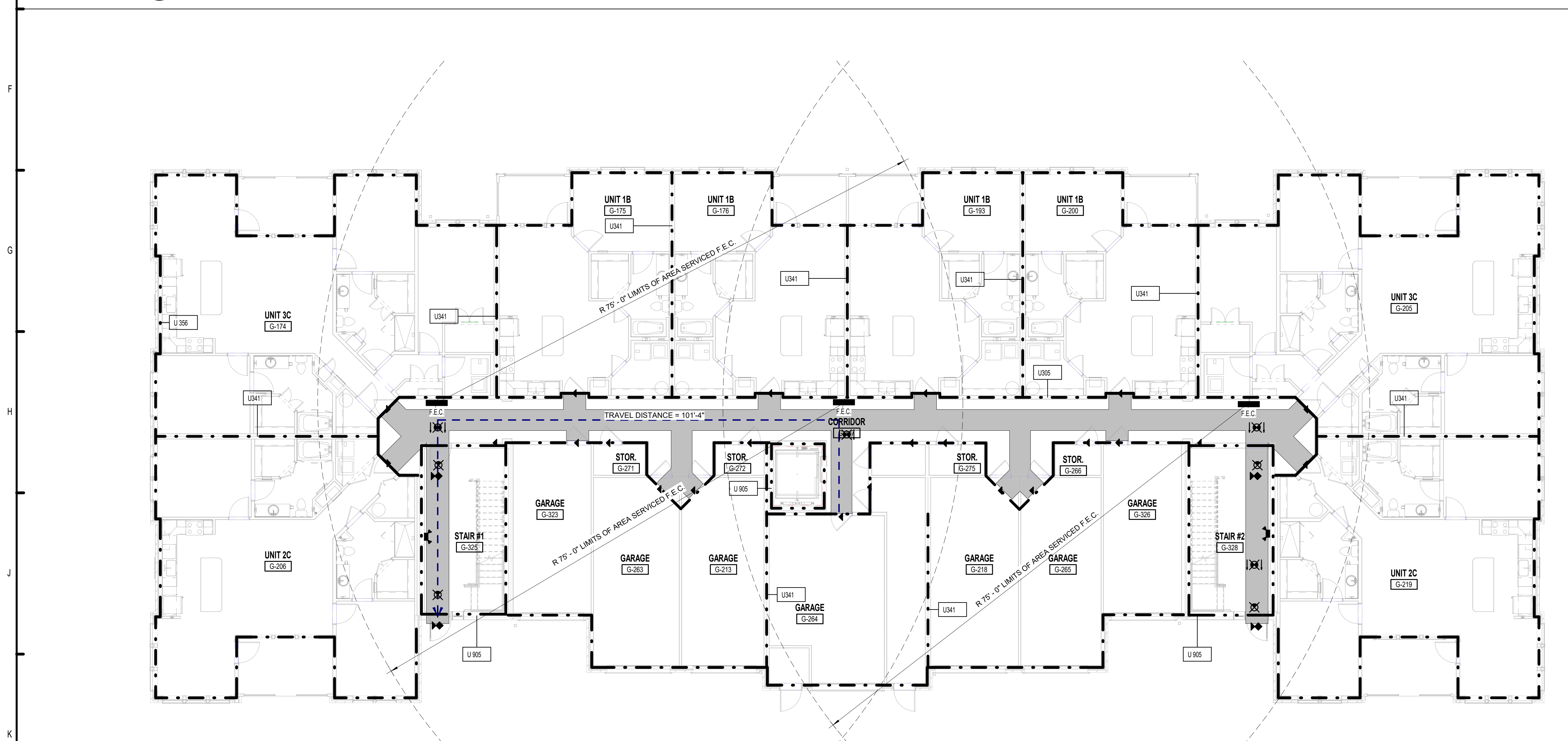
ACCESSIBLE DATA AND DETAILS

A0.03

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E1 BLDG TYPE B - LEVEL 2
1/8" = 1'-0"

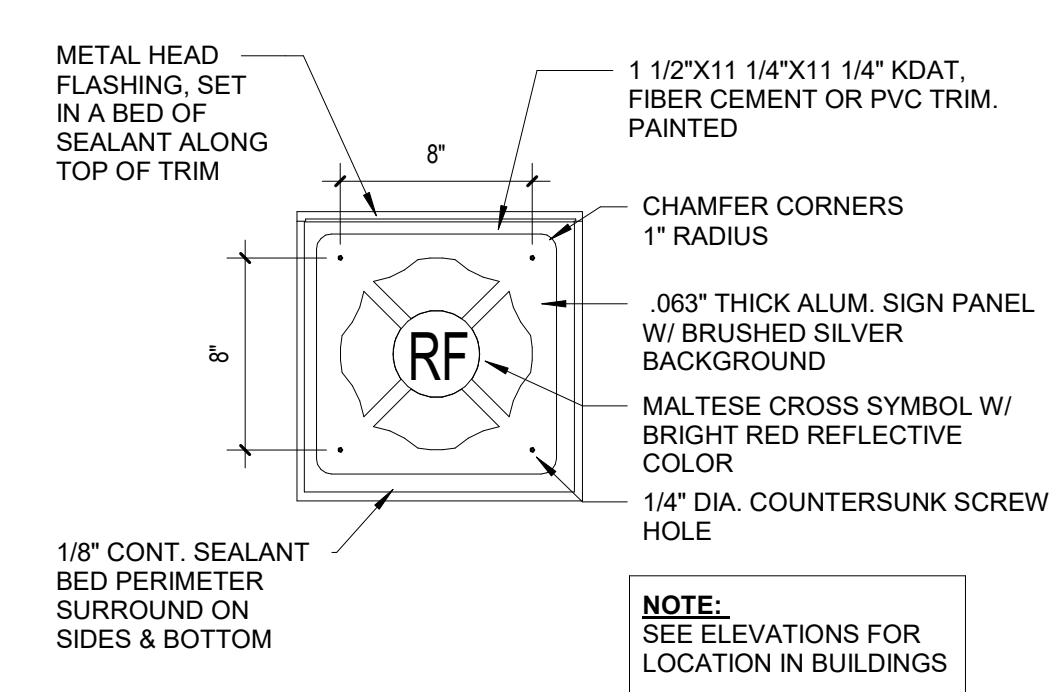


K1 BLDG TYPE B - GROUND LEVEL
1/8" = 1'-0"

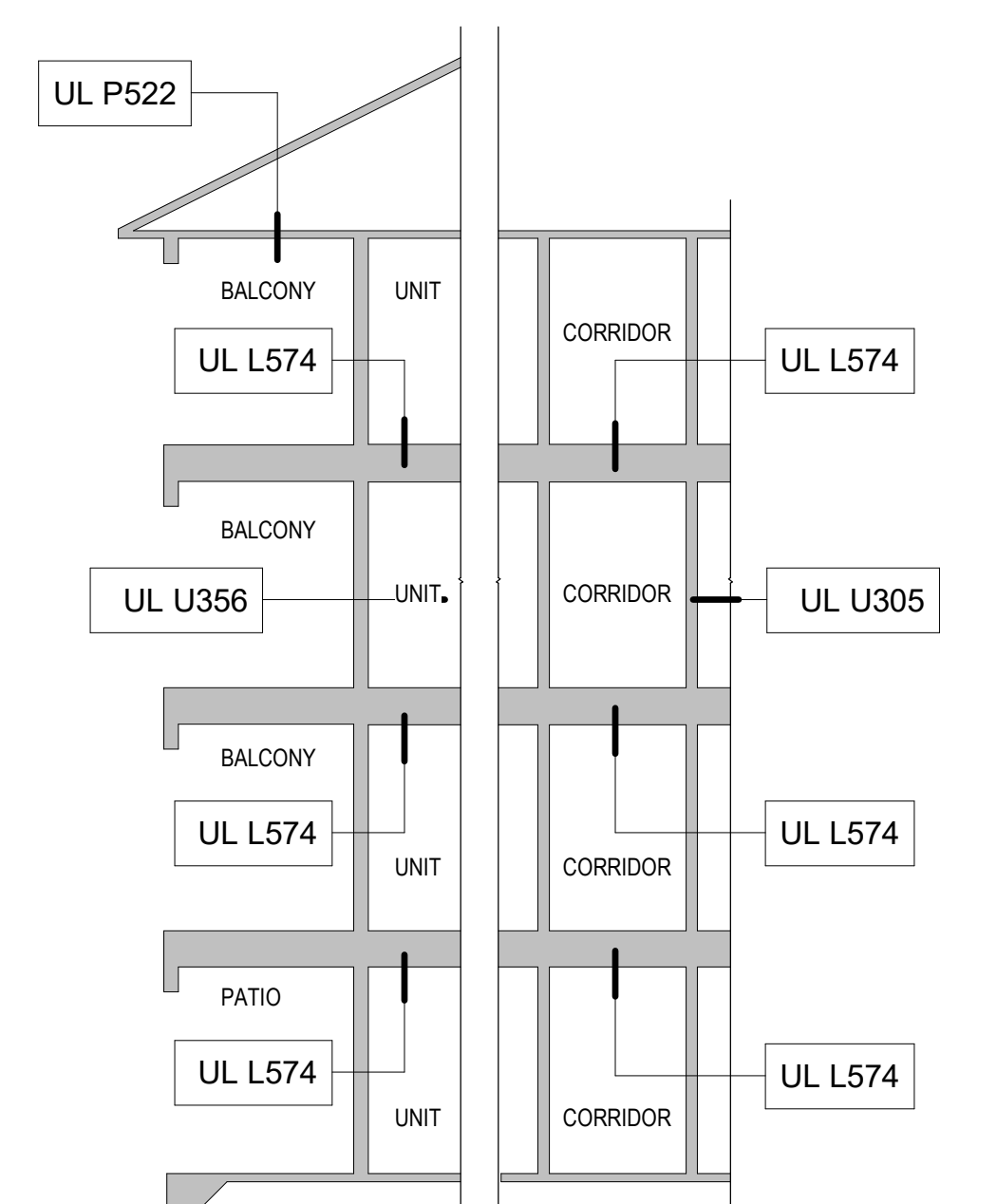
ASSEMBLY SOUND RATINGS			
WALL ASSEMBLY	STC RATINGS	IC RATINGS	TEST # / STANDARD
U305	56	N/A	BW-35ST 1969/ GEIGER AND HAMME
U341	58	N/A	TL-93-270/ NRC - CNRC
U356	52	N/A	BW-35ST 1969/ GEIGER AND HAMME
U336	60	N/A	BW-35ST 1969/ GEIGER AND HAMME

HORIZONTAL ASSEMBLY			
ASSEMBLY	STC RATINGS	IC RATINGS	TEST # / STANDARD
P522	60	50	RAL-TL-97-340 & RAL-IN-97-47/ USG LEVELROCK SOUND CONTROL
L528	60	50	RAL-TL-97-340 & RAL-IN-97-47/ USG LEVELROCK SOUND CONTROL
L574	54	50	RAL-TL-97-340 & RAL-IN-97-47/ USG LEVELROCK SOUND CONTROL

ASSEMBLY SOUND RATINGS
1/4" = 1'-0"



FIRE SIGN DETAIL 1
1 1/2" = 1'-0"



UL FLOOR/CEILING/ROOF ASSEMBLY
1/8" = 1'-0"

LIFE SAFETY LEGEND

- NOTES:
- ALL UNIT DOOR CAPACITY - 180 PERSONS
 - ALL EXIT DOOR COMMON AREA CAPACITY - 180 PERSONS
EXCEPTION: GROUND FLOOR ENTRY LOBBY DOORS - 360 PERSONS
 - 36" WIDE ACCESSIBLE ROUTE REQUIRED PER FAIR HOUSING.
 - ALL DOORS ON ACCESSIBLE ROUTE TO HAVE A MINIMUM CLEARANCE OF 2'-8" (32").
- EXIT LIGHT
 - EMERGENCY LIGHT
 - TRAVEL DISTANCE TO EXIT
 - FIRE EXTINGUISHER
VERIFY EXACT LOCATIONS AND TYPES WITH LOCAL FIRE OFFICIALS
 - 20 MIN DOOR
 - 45 MIN DOOR
 - 60 MIN DOOR
 - 90 MIN DOOR
 - REQUIRED 1 HOUR FIRE SEPARATION
 - REQUIRED 2 HOUR FIRE SEPARATION

ISSUE HISTORY

No.	Date	Description
1	04/15/2022	PERMIT SUBMITTAL

REVISION HISTORY

No.	Date	Description
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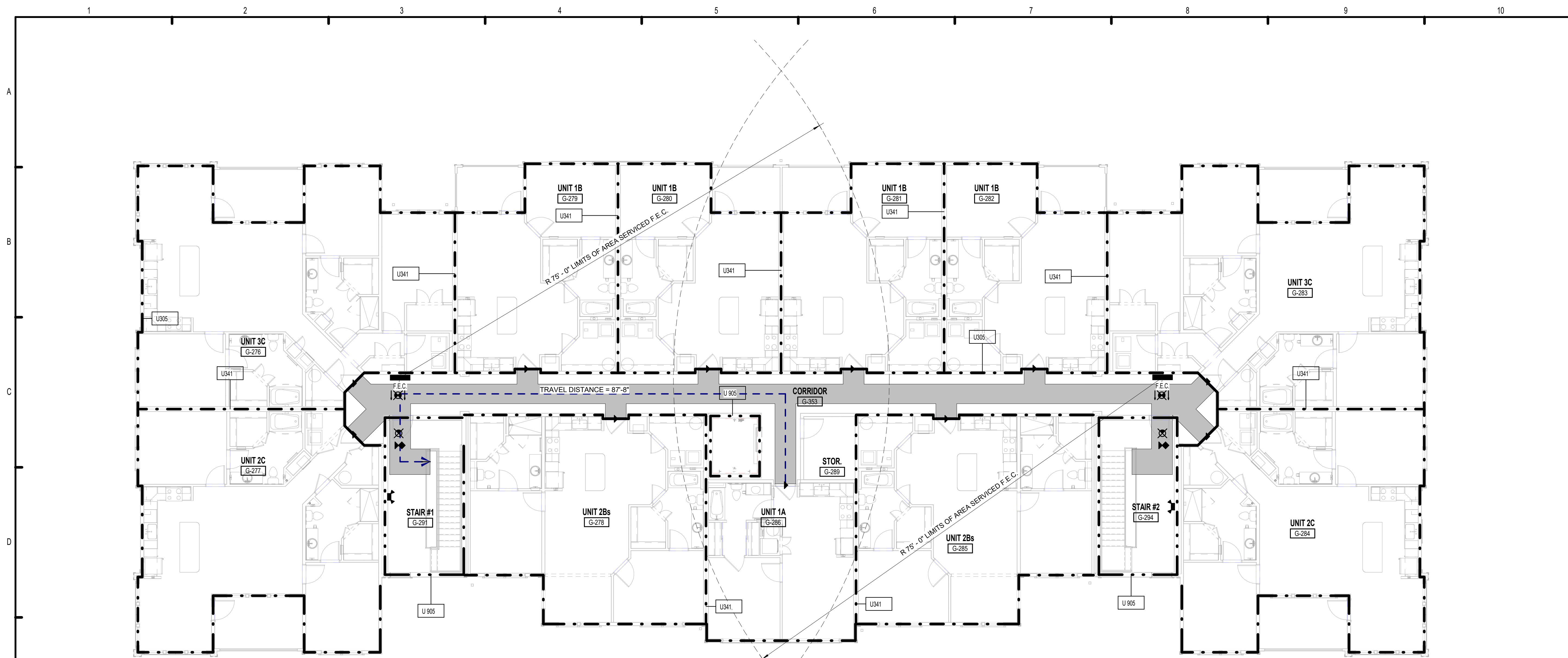
FUGLEBERG KOCH
2555 Temple Trail, Winter Park, FL 32789 (407) 629-0595
www.fuglebergkoch.com AA26002103

CONSULTANT
STATE OF ALABAMA
8234
4/15/22
REGISTERED ARCHITECT
MICHAEL DOVE
SEA

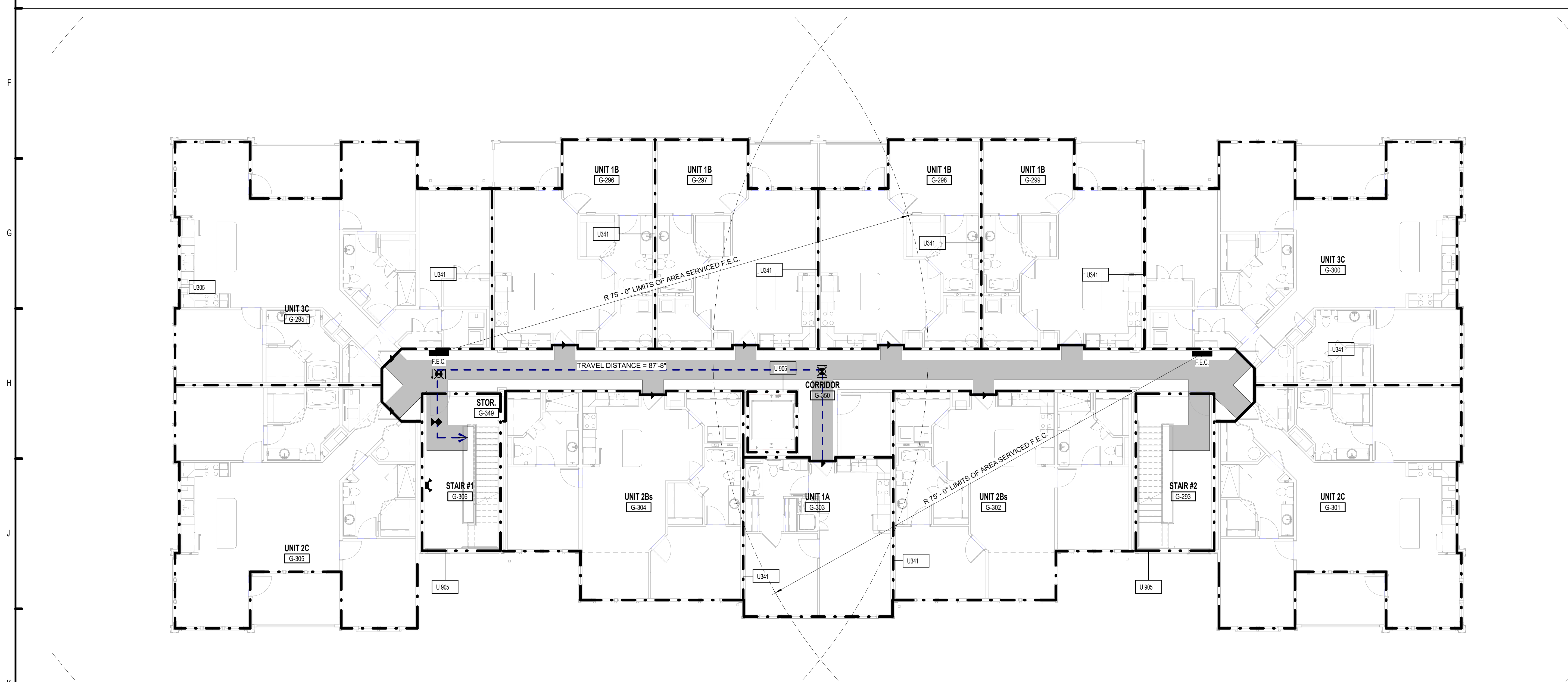
THE ROBERT MADISON
MADISON, ALABAMA
Drawn: MB
Checked: JK
Approval: MS
Date: 04/15/2022
Project #: 572

LIFE SAFETY PLANS - BUILDING TYPE B

A0.12



E1 BLDG TYPE B- LEVEL 4
1/8" = 1'-0"



K1 BLDG TYPE B- LEVEL 3
1/8" = 1'-0"

ASSEMBLY SOUND RATINGS

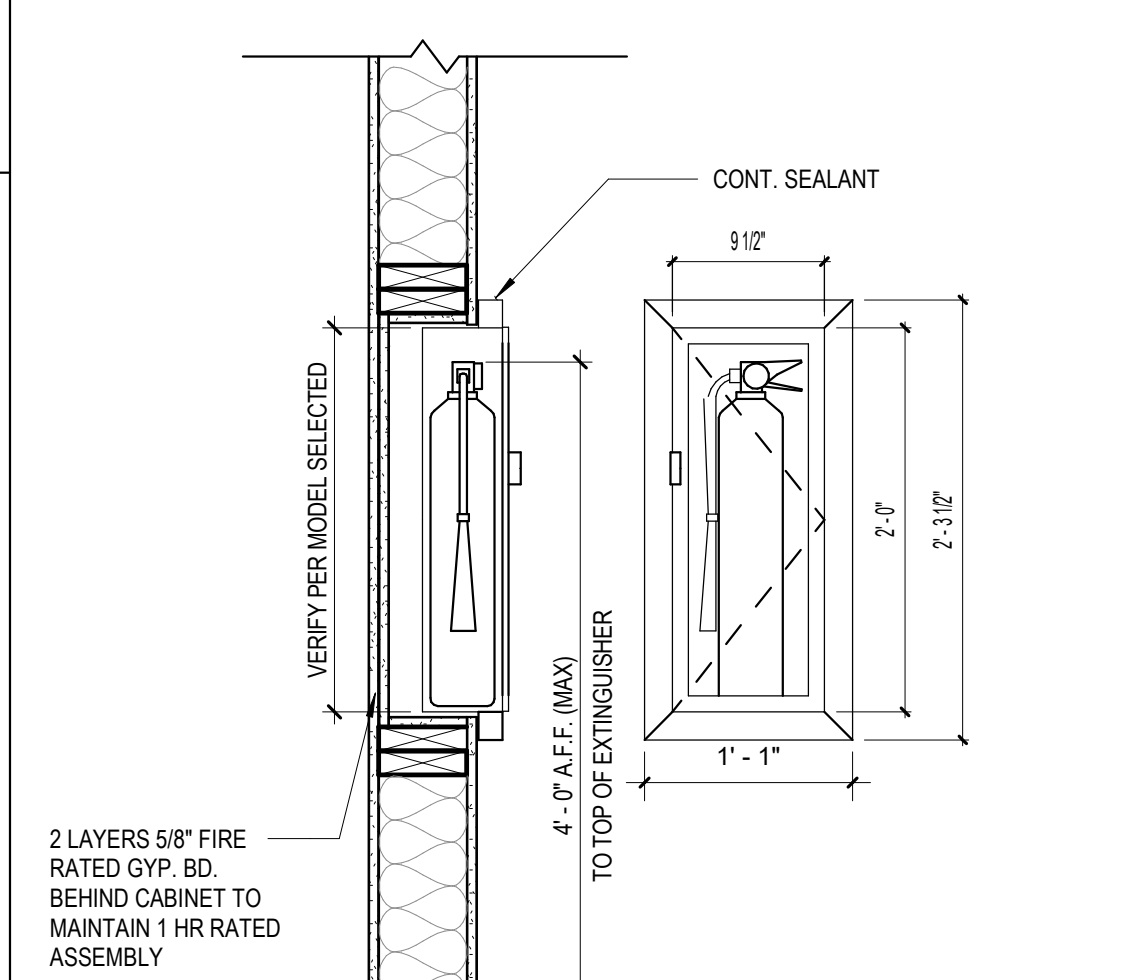
WALL ASSEMBLY	STC RATINGS	IC RATINGS	TEST # / STANDARD
U305	56	N/A	BW-3527/1969/ GEIGER AND HAMME
U341	58	N/A	TL-93-270/ NRC - CNRC
U356	52	N/A	BW-3527/1969/ GEIGER AND HAMME
U336	60	N/A	BW-3527/1969/ GEIGER AND HAMME

HORIZONTAL ASSEMBLY	STC RATINGS	IC RATINGS	TEST # / STANDARD
P522	60	50	RAL-TL-97-340 & RAL-IN-97-47/ USG LEVELROCK SOUND CONTROL
L528	60	50	RAL-TL-97-340 & RAL-IN-97-47/ USG LEVELROCK SOUND CONTROL
L574	54	50	RAL-TL-97-340 & RAL-IN-97-47/ USG LEVELROCK SOUND CONTROL

ASSEMBLY SOUND RATINGS
1/4" = 1'-0"



FIRE EXTINGUISHER CABINET
1" = 1'-0"



UL FLOOR/CEILING/ROOF ASSEMBLY
1/8" = 1'-0"

LIFE SAFETY LEGEND

- NOTES:
- ALL UNIT DOOR CAPACITY - 180 PERSONS
 - ALL EXIT DOOR COMMON AREA CAPACITY - 180 PERSONS
EXCEPTION: GROUND FLOOR ENTRY LOBBY DOORS - 360 PERSONS
 - 36" WIDE ACCESSIBLE ROUTE REQUIRED PER FAIR HOUSING
 - ALL DOORS ON ACCESSIBLE ROUTE TO HAVE A MINIMUM CLEARANCE OF 2'-8" (32")
- EXIT LIGHT
 - EMERGENCY LIGHT
 - TRAVEL DISTANCE TO EXIT
 - FIRE EXTINGUISHER
VERIFY EXACT LOCATIONS AND TYPES WITH LOCAL FIRE OFFICIALS
 - 20 MIN DOOR
 - 45 MIN DOOR
 - 60 MIN DOOR
 - 90 MIN DOOR
 - REQUIRED 1 HOUR FIRE SEPARATION
 - REQUIRED 2 HOUR FIRE SEPARATION

ISSUE HISTORY

No.	Date	Description
1	04/15/2022	PERMIT SUBMITTAL

REVISION HISTORY

No.	Date	Description
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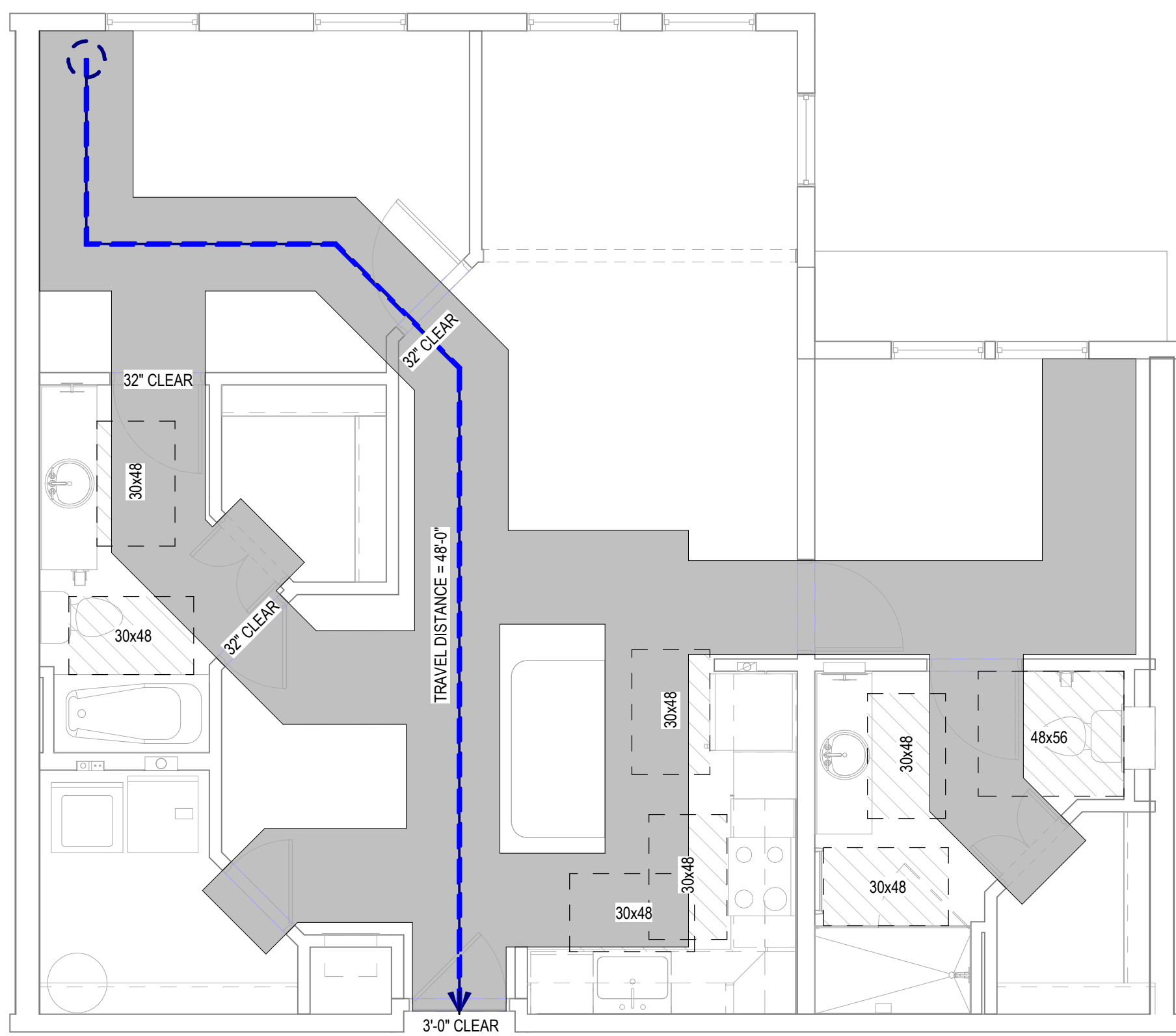
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www.fuglebergkoch.com AA26002103

CONSULTANT
STATE OF ALABAMA
8234
4/15/22
REGISTERED ARCHITECT
MICHAEL GOVE
SEA

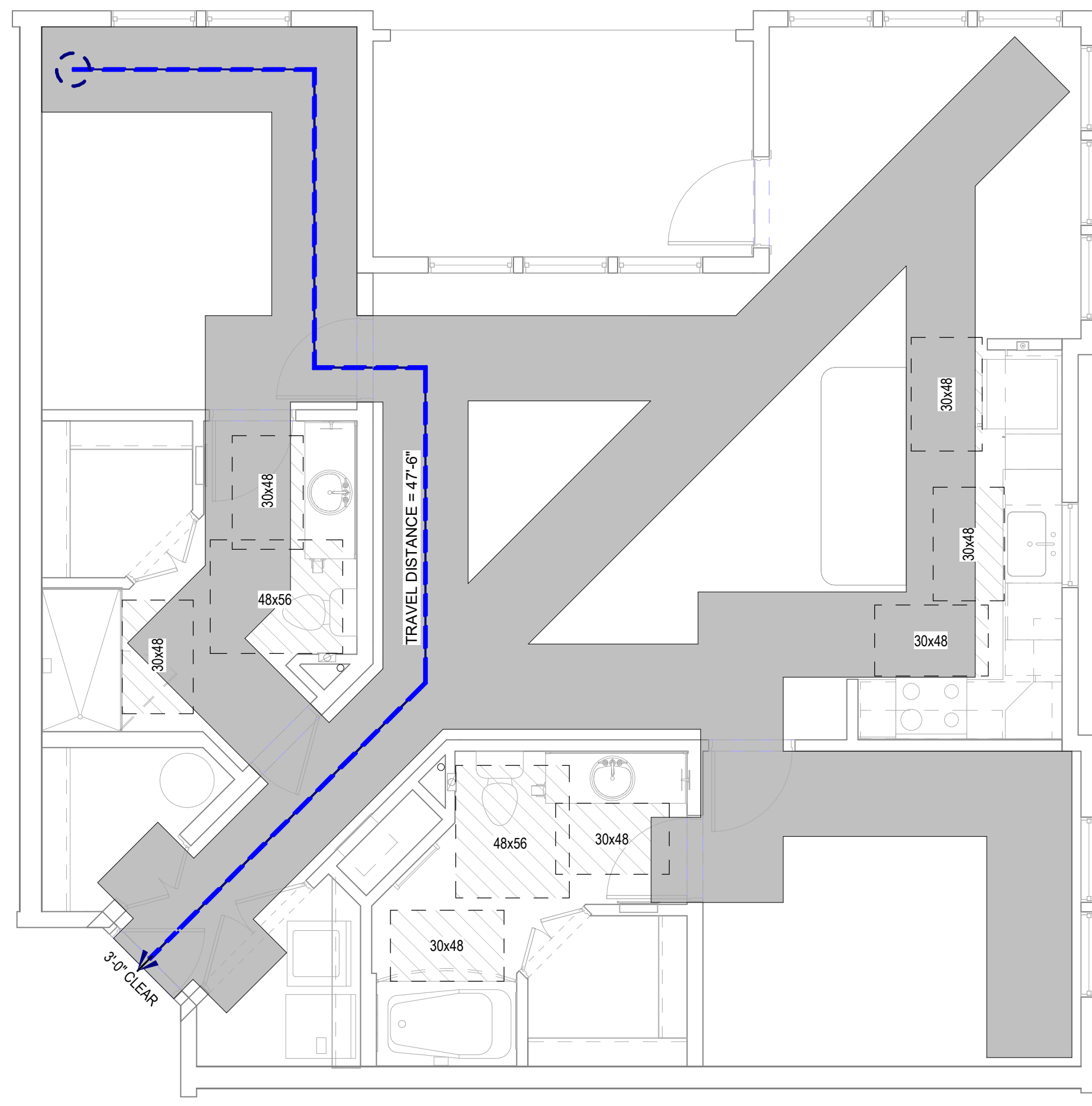
THE ROBERT MADISON
MADISON, ALABAMA
Drawn: MB
Checked: JK
Approval: MS
Date: 04/15/2022
Project #: 5722

LIFE SAFETY PLANS - BUILDING TYPE B

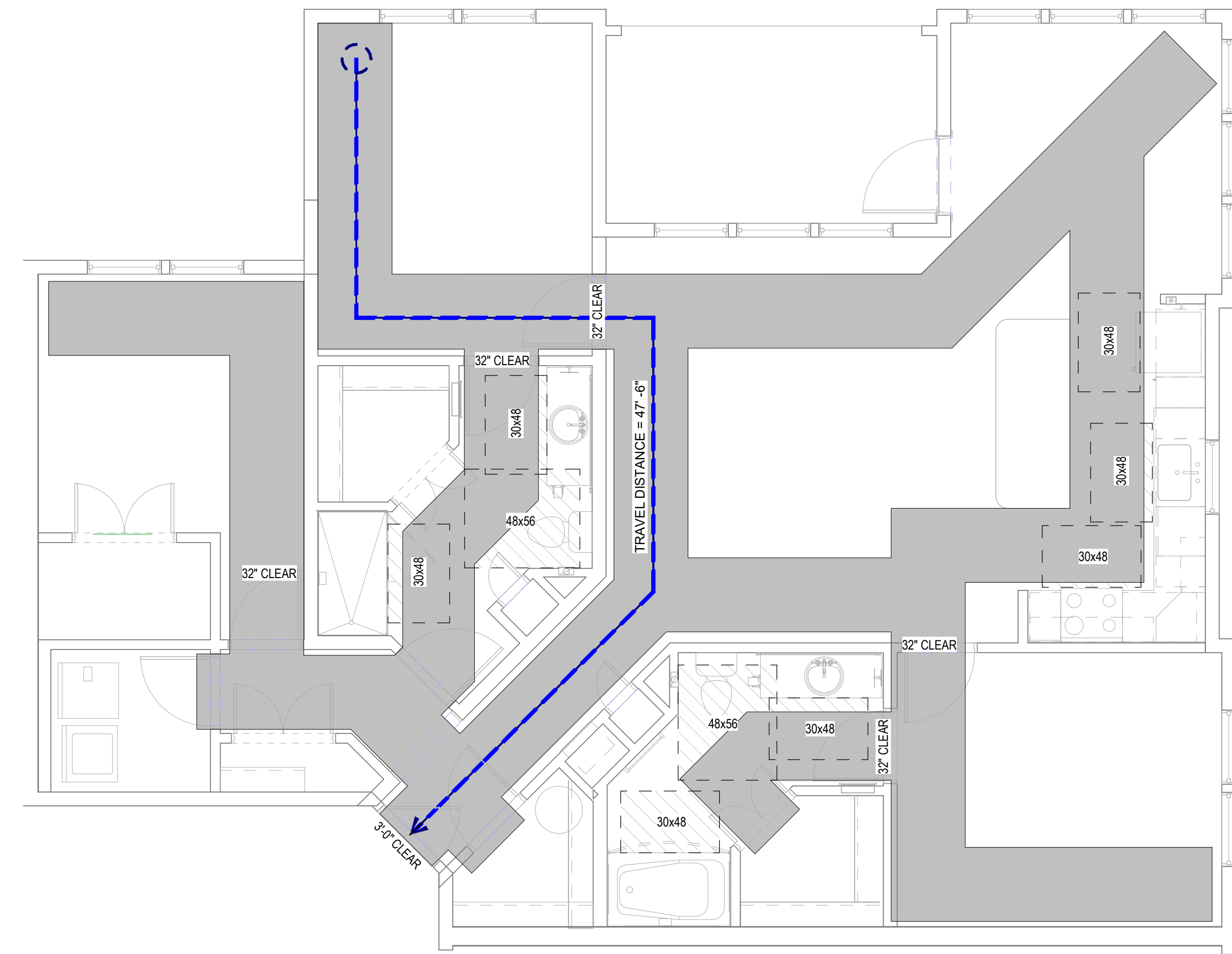
A0.13



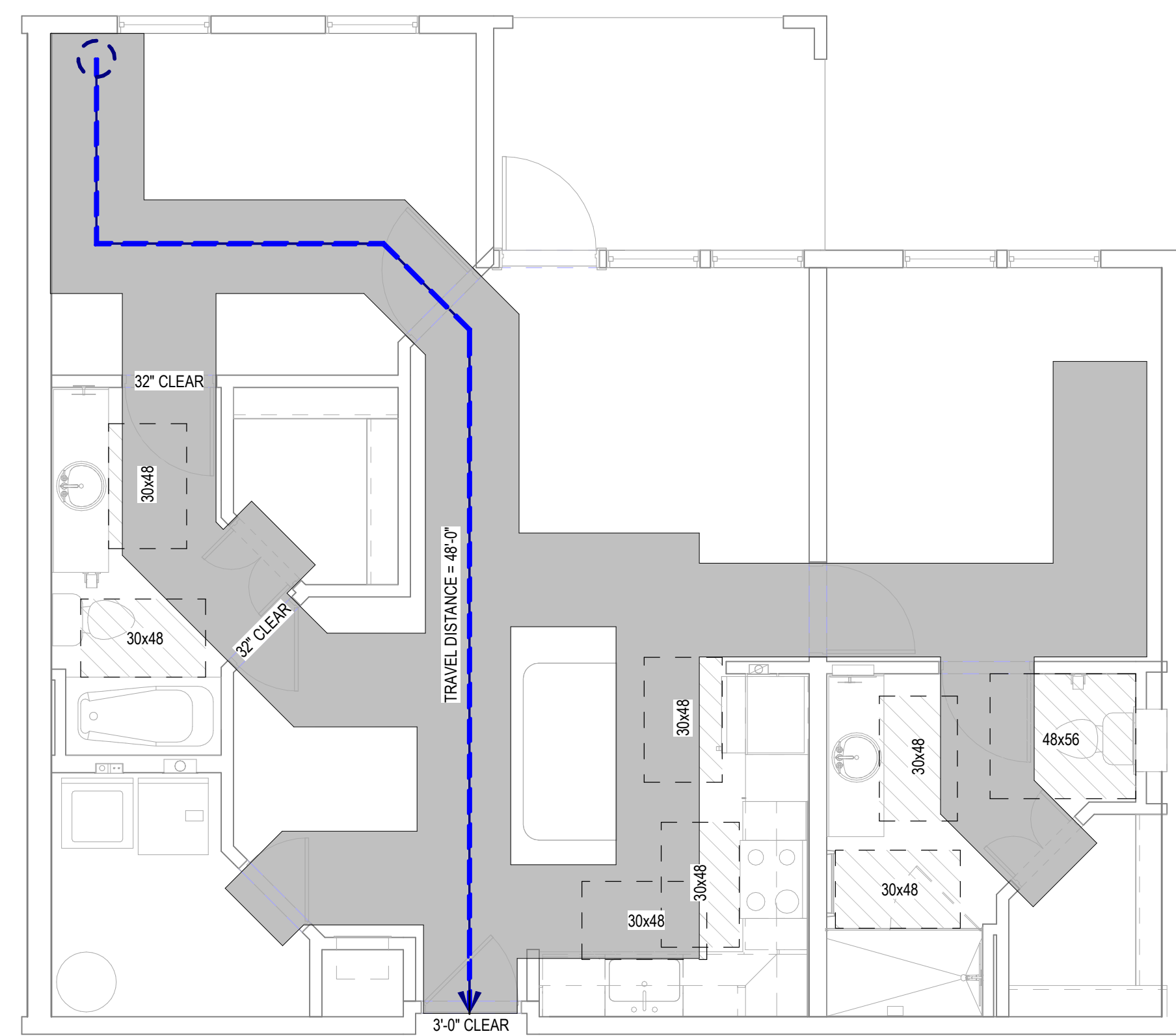
J1 UNIT 2BS -LIFE SAFETY PLAN
1/4" = 1'-0"



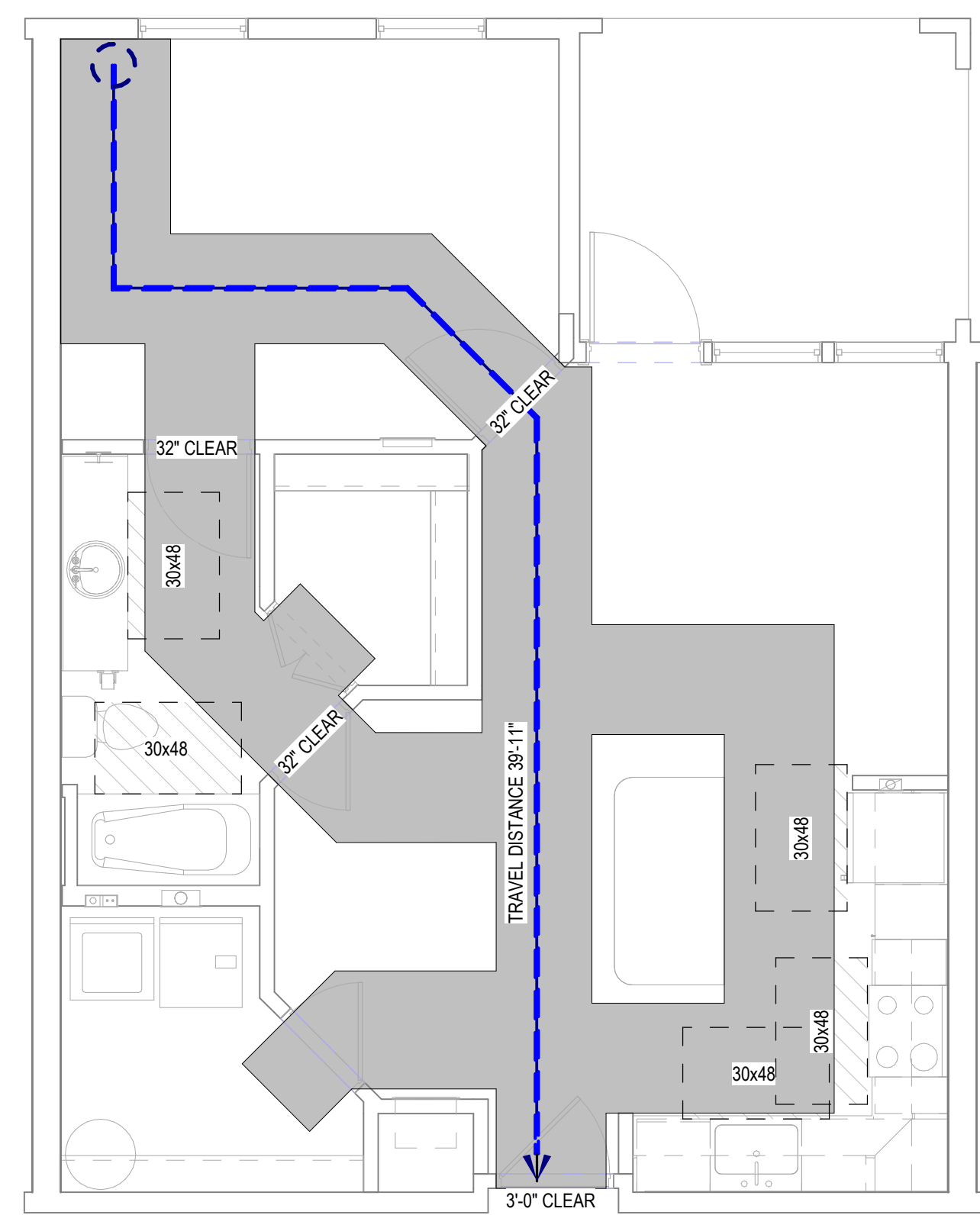
J2 UNIT 2C -LIFE SAFETY PLAN
1/4" = 1'-0"



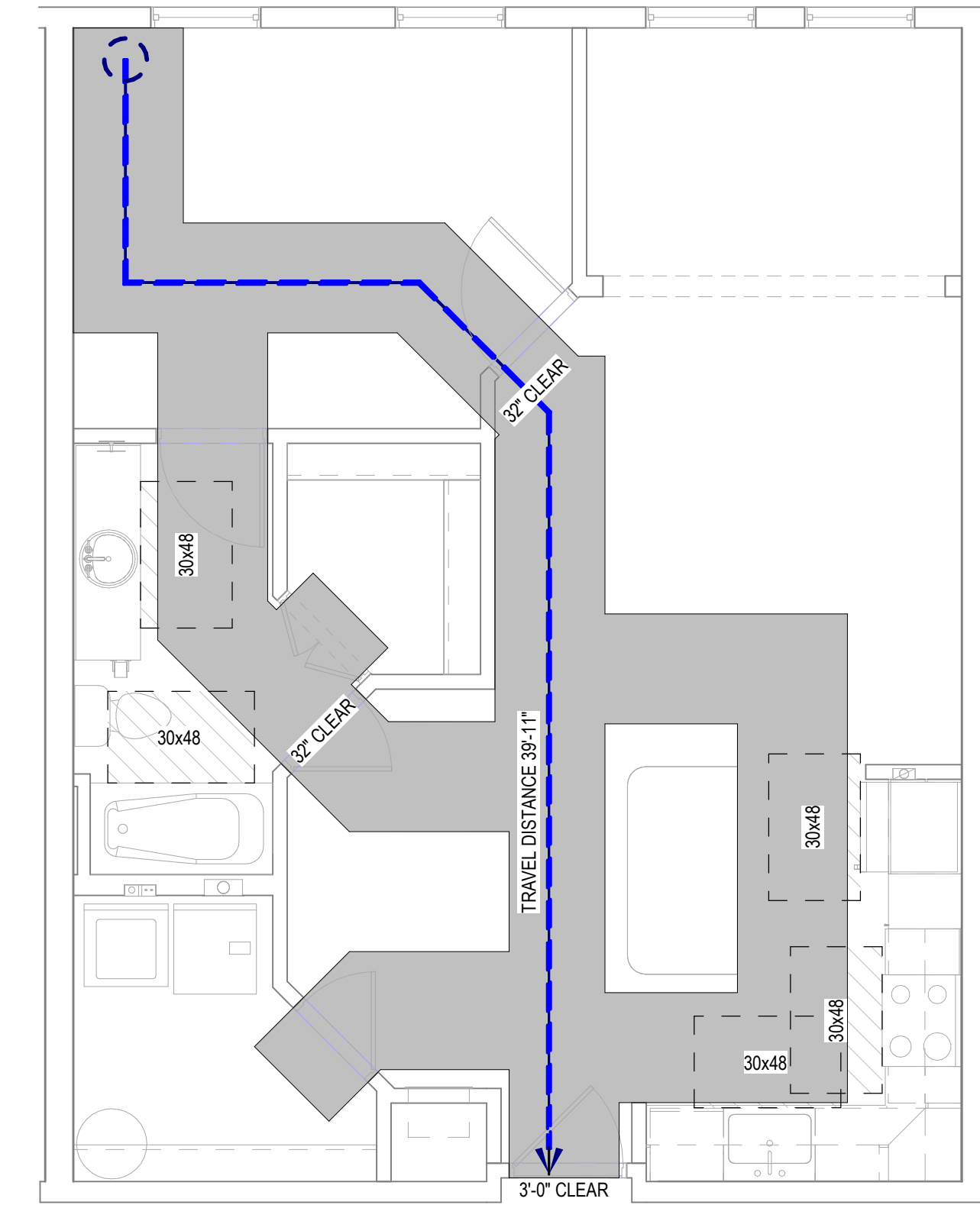
J3 UNIT 3C - LIFE SAFETY PLAN
1/4" = 1'-0"



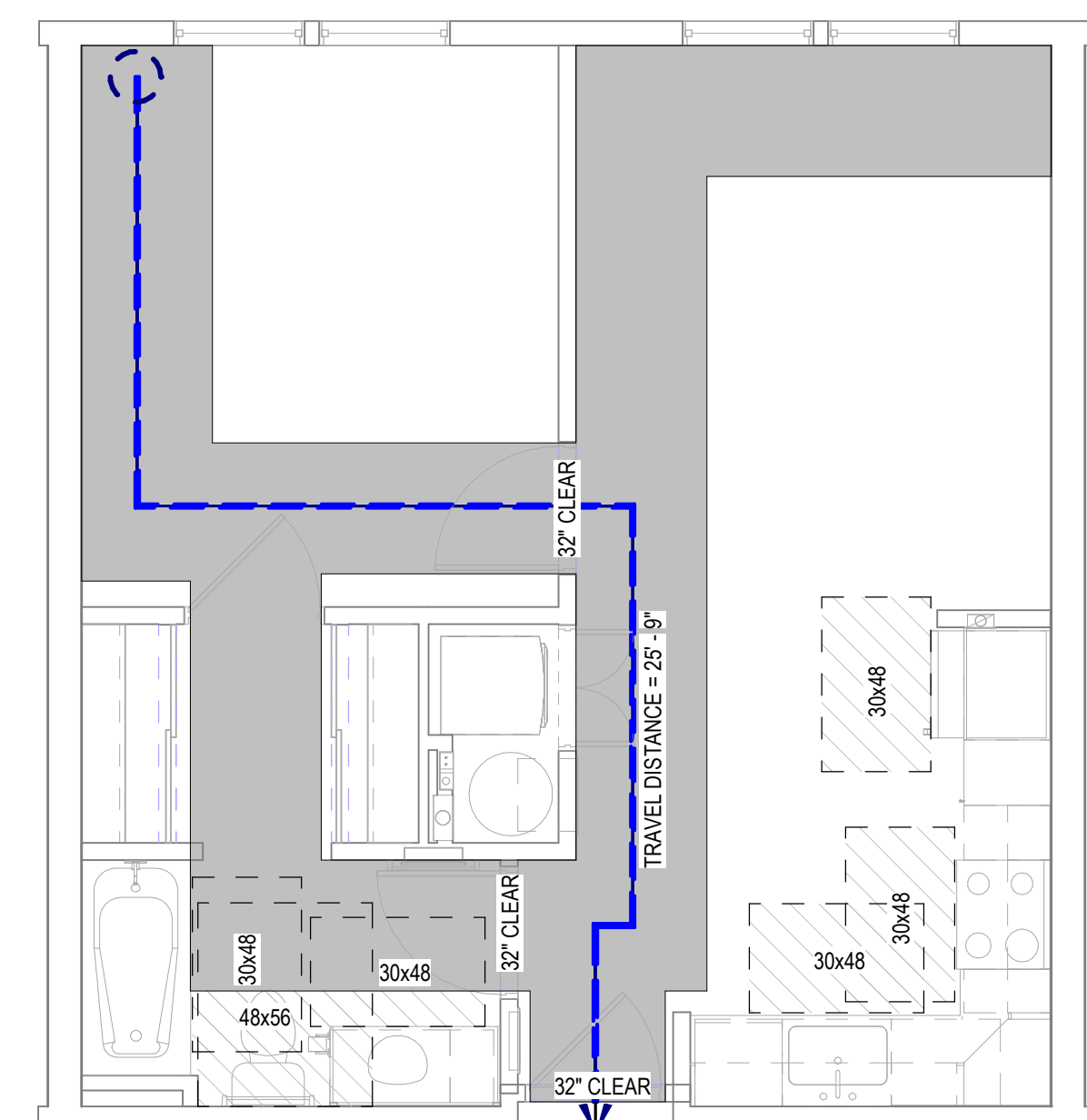
H1 UNIT 2B - LIFE SAFETY PLAN
1/4" = 1'-0"



H2 UNIT 1B - LIFE SAFETY PLAN
1/4" = 1'-0"



H3 UNIT 1Bs - LIFE SAFETY PLAN
1/4" = 1'-0"



H4 UNIT 1A - LIFE SAFETY PLAN
1/4" = 1'-0"

ISSUE HISTORY

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REVISION HISTORY

No.	Date	Description
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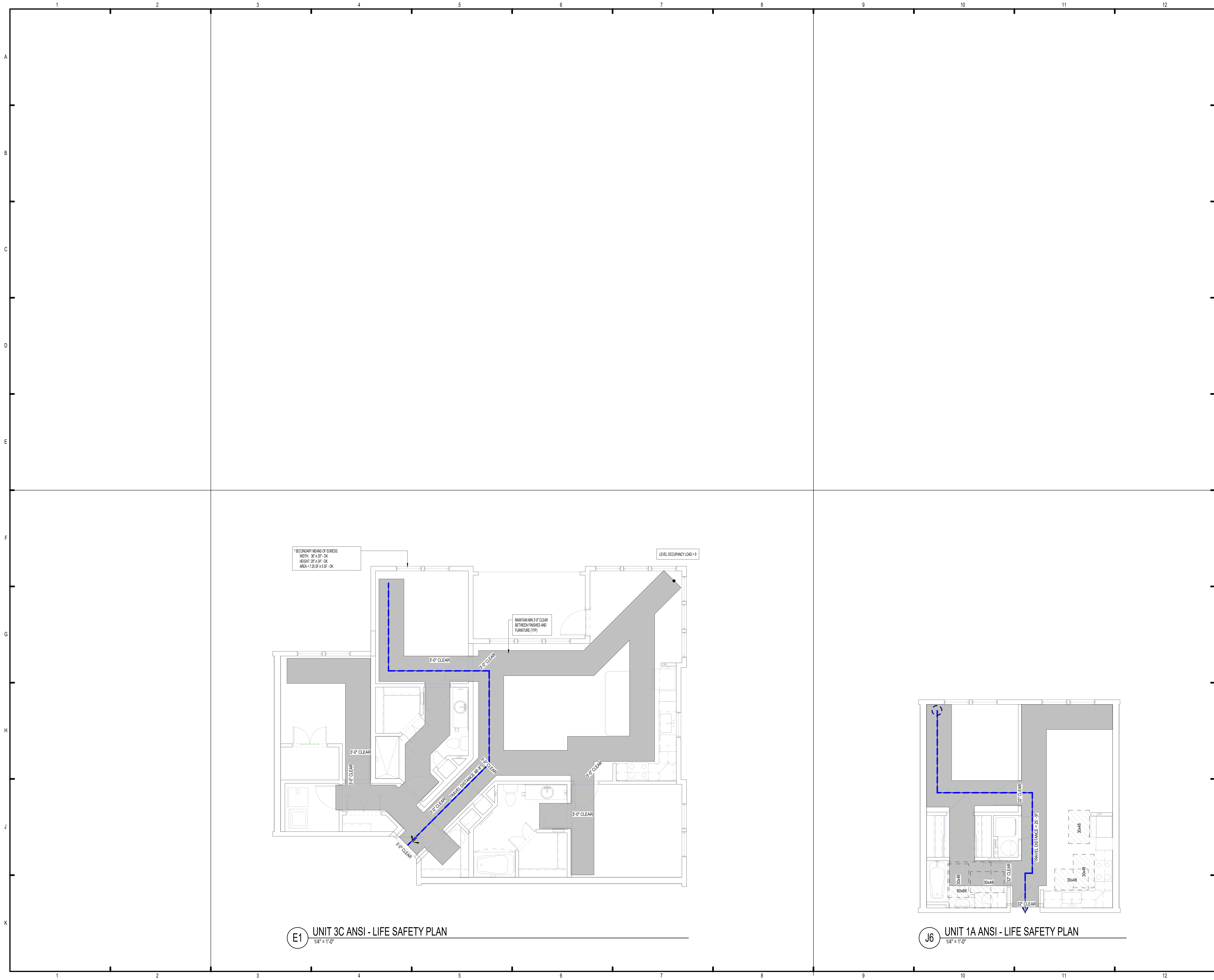


MICHAEL DOVE
SEA

Drawn	MS
Checked	JK
Approval	MS
Date	04/15/2022
Project #	572

LIFE SAFETY PLANS - UNIT PLANS

A0.20



E1 UNIT 3C ANSI - LIFE SAFETY PLAN
1/4" = 1'-0"

J6 UNIT 1A ANSI - LIFE SAFETY PLAN
1/4" = 1'-0"

ISSUE HISTORY

No.	Date	Description
1	04/15/2022	PERMIT SUBMITTAL

REVISION HISTORY

No.	Date	Description

FUGLEBERG KOCH
2555 Temple Trail, Winter Park, FL 32789 (407) 629-0595
www.fuglebergkoch.com AA26002103

CONSULTANT
STATE OF ALABAMA
MICHAEL E. GOVE
8234
4/15/22
REGISTERED ARCHITECT

MICHAEL GOVE
SEA

THE ROBERT MADISON	Drawn: MB
MADISON, ALABAMA	Checked: JK
	Approval: MS
	Date: 04/15/2022
	Project #: 572

LIFE SAFETY PLANS - UNIT PLANS

A0.21



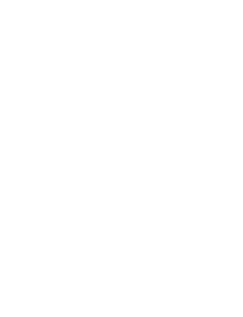
11. Cementitious Backer Units* — (Optional, Not Shown) — For Use On Face Of 1 Hr Systems With All Standard Items Required) — 7/16 in. ...
12. Non-Bearing Wall Partition Intersection — (Optional) — Two nominal 2 1/4 in. studs or nominal 2 by 6 in. studs nailed together with 3 in. long 100 nails spaced a max. 16 in. OC. ...
13. Mesh Netting — (Not Shown) — Any thin, woven or non-woven fibrous netting material attached with staples to the outer face of one row of studs to facilitate the installation of the sprayed fiber from the opposite row. ...
14. Mineral and Fiber Board* — (Optional, Not Shown) — For optional use as an additional layer on one side of wall. ...
14C. Batts and Blankets* — (Optional, Not Shown) — For use with Item 14A, 3 in. thick mineral wool batts, placed to fit interior of wall, attached to the 3-1/2 in. face of the studs with staples placed 24 in. OC. ...
14D. Adhesive — (For use with Item 14A) — Construction grade adhesive applied in vertical, serpentine, nominal 3/8 in. wide beads down the length of both vertical edges of Mineral and Fiber Board (Item 14A). ...
14E. Gypsum Board — (For use with Item 14A) — 5/8 in. thick, 4 ft wide, applied vertically over Mineral and Fiber Board (Item 14A) with vertical joints located anywhere over stud cavities. ...
14F. Mineral and Fiber Board* — (Optional, Not Shown) — For optional use as an additional layer on one side of wall. ...
14G. Batts and Blankets* — (Optional, Not Shown) — For use with Item 14A, 3 in. thick mineral wool batts, placed to fit interior of wall, attached to the 3-1/2 in. face of the studs with staples placed 24 in. OC. ...

5A. Fiber, Sprayed* — (Not Shown) — Not for use with item 6) — As an alternate to Batts and Blankets (Item 5) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. ...
5B. Fiber, Sprayed* — (Optional, Not Shown) — For use with Items 6, 6A, 6B, 6C, or 6D) — As an alternate to Batts and Blankets (Item 5) — Spray applied cellulose material. ...
5C. Fiber, Sprayed* — (Optional, Not Shown) — For use with Items 6, 6A, 6B, 6C, or 6D) — As an alternate to Batts and Blankets (Item 5) — Spray applied cellulose material. ...
5D. Glass Fiber Insulation — (As an alternate to Item 5C) — 3 in. thick glass fiber batts bearing the UL Classification Marking as to Surface Burning and/or Fire Resistance, placed to fill the interior of the wall. ...
5E. Batts and Blankets* — (Required for use with Wall and Partition Facings and Accessories, Item 30) — Glass fiber insulation, nominal 1/2 in. thick, min. density of 0.85 pcf, with a flame spread of 25 or less and a smoke developed of 50 or less, friction-fitted to be used with items 6A, 6B, 6C, and 6D. ...
5F. Fiber, Sprayed* — (Optional, Not Shown) — For use with Items 6, 6A, 6B, 6C, or 6D) — As an alternate to Batts and Blankets (Item 5) — Spray applied cellulose material. ...
5G. Fiber, Sprayed* — (Optional, Not Shown) — For use with Items 6, 6A, 6B, 6C, or 6D) — As an alternate to Batts and Blankets (Item 5) — Spray applied cellulose material. ...
5H. Fiberglass Insulation — (Optional, Not Shown) — For use with Items 6, 6A, 6B, 6C, or 6D) — As an alternate to Batts and Blankets (Item 5) — Spray applied cellulose material. ...

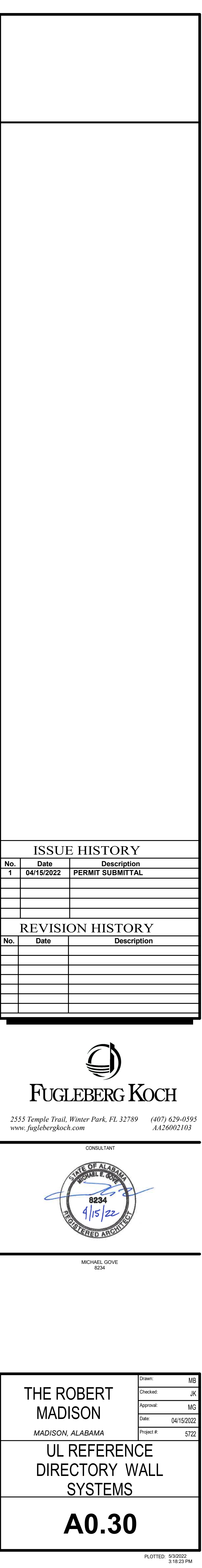


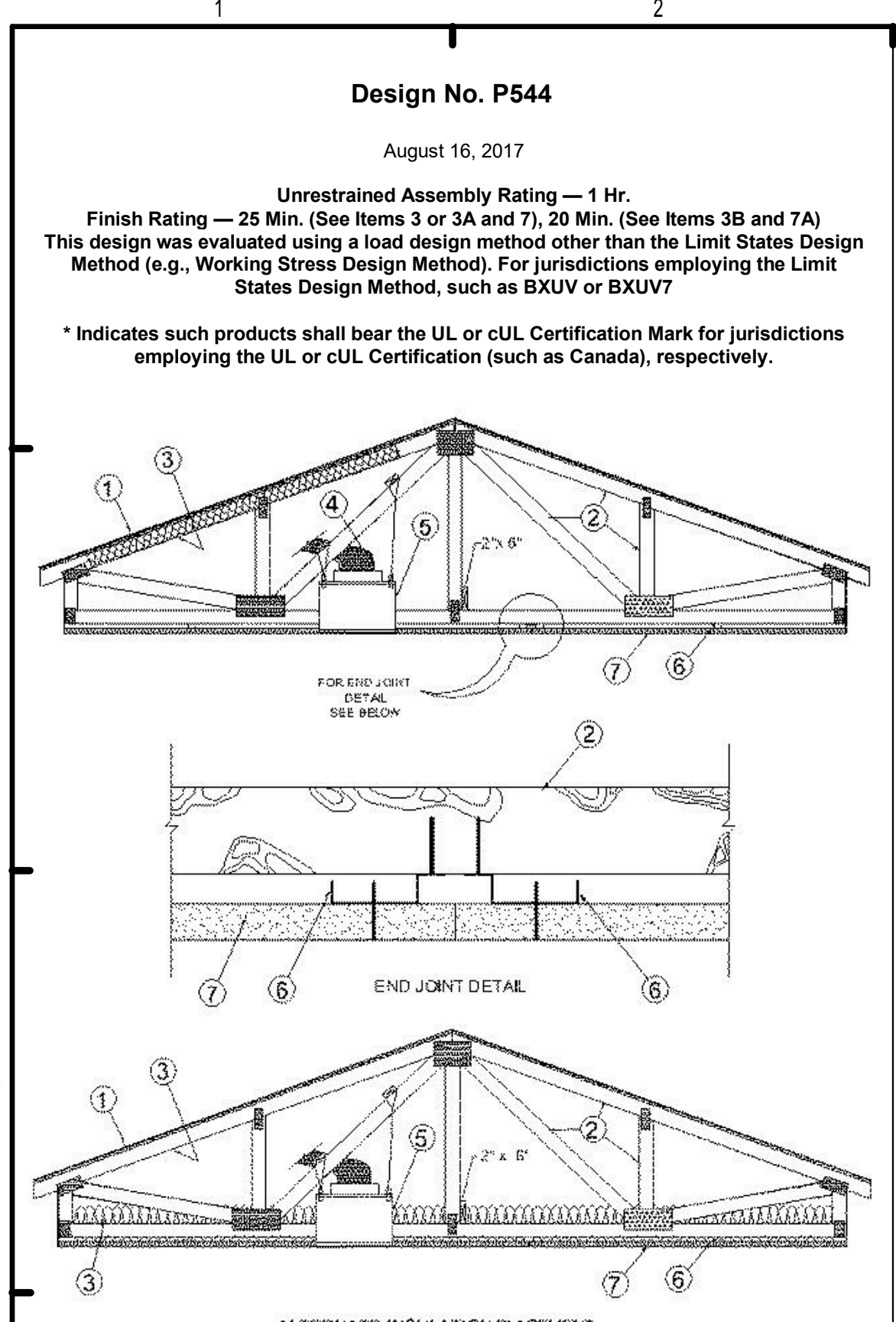
Table with two sections: ISSUE HISTORY and REVISION HISTORY. The ISSUE HISTORY table has columns for No., Date, and Description, with one entry dated 04/15/2022 for PERMIT SUBMITTAL. The REVISION HISTORY table has columns for No., Date, and Description, which is currently empty.

FUGLEBERG KOCH logo and contact information: 2555 Temple Trail, Winter Park, FL 32789 (407) 629-0595 www.fuglebergkoch.com AA26002103



Approval stamp for THE ROBERT MADISON project, dated 04/15/2022, project # 572. The stamp includes fields for 'Drawn', 'Checked', 'Approved', 'Date', and 'Project #'. Below the stamp is the text 'UL REFERENCE DIRECTORY WALL SYSTEMS A0.30'.





Design No. P544
August 16, 2017
Unrestrained Assembly Rating — 1 Hr.
Finish Rating — 25 Min. (See Items 3 or 3A and 7), 20 Min. (See Items 3B and 7A)
This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as BXUV or BXUV7

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

1. Roofing System* — Any UL Class A, B or C Roofing System (TGFR) or Prepared Roof Covering (TFWZ) acceptable for use over nom 15/32 in. thick wood structural panels, min. grade "C-D" or "Sheathing", Nom 15/32 in. thick wood structural panels secured to trusses with construction adhesive and No. 6d ringed shank nails. Nails spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.

2. Trusses — Pitch parallel chord trusses, spaced a max of 24 in. OC, fabricated from nom 2 by 4 lumber, with lumber oriented vertically or horizontally. Truss members secured together with 0.0356 in. thick galv steel plates. Plates have 5/16 in. long teeth projecting perpendicular to the plane of the plate. The teeth are in pairs facing each other (made by the same punch), forming a split tooth type plate. Each tooth has a chisel point on its outside edge. These points are diagonally opposite each other for each pair. The top half of each tooth has a bevel for stiffness. The pairs are repeated on approximately 7/8 in. centers with four rows of teeth per inch of plate width. Where the truss intersects with the interior face of the exterior walls, the min truss depth shall be 5-1/4 in. with a min roof slope of 3/12 and a min. area in the plane of the truss of 21 sqft. Where the truss intersects with the interior face of the exterior walls, the min truss depth may be reduced to 3 in. if the batts and blankets (Item 3) are used as shown in the above illustration (Alternate Insulation Placement) and are firmly packed against the intersection of the bottom chords and the plywood sheathing.

3. Batts and Blankets* — (Optional) — Glass fiber insulation, secured to the wood structural panels with staples spaced 12 in. OC or to the trusses with 0.090 in. diam galv steel wires spaced 12 in. OC. Any glass fiber insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance, having a min density of 0.5 pcf. As an option, the insulation may be fitted in the concealed space, draped over the resilient channel/gypsum wallboard ceiling membrane when resilient channels and gypsum wallboard attachment is modified as specified in Items 6 and 7. The finished rating has only been determined when the insulation is secured to the decking.

3A. Cavity Insulation - Loose Fill Material* — (Not Shown) — As an alternate to Item 3 — Any thickness of loose fill material bearing the UL Classification Marking for Surface Burning Characteristics, having a min density of 0.5 pcf, fitted in the concealed space, draped over the resilient channel/gypsum wallboard ceiling membrane when resilient channels and gypsum wallboard attachment is modified as specified in Items 6 and 7. The finished rating when loose fill material is used has not been determined.

3B. Cavity Insulation - Batts and Blankets* or Loose Fill Material* — (Not Shown) — (As described above in Items 3 and 3A) — (For Use with Item 7A, Not Shown) — Min. 3-1/2 in thick with no limit on maximum thickness fitted in the concealed space, draped over the resilient channel (Item 6A) gypsum board (Item 7A) ceiling membrane.

4. Air Duct* — Any UL Class 0 or Class 1 flexible air duct installed in accordance with the instructions provided by the damper manufacturer.

5. Ceiling Damper* — Maximum plenum box size nom. 19 in. long by 19 in. wide and 11-7/8 in. high fabricated from galvanized steel. Installed in accordance with the manufacturers installation instructions provided with the damper. Maximum damper openings not to exceed 128 sq. in. per 100 sq ft of ceiling area.

ARE TECHNOLOGIES INC — Models: CRD model 50 w/Boot, CRD model 50EA w/Boot, CRD model 55 w/Boot, CRD model 55EA w/Boot
LLOYD INDUSTRIES INC — Model CRD 50-BT, CRD 50-EA-BT, CRD 55-BT, CRD 55-EA-BT

5A. Ceiling Damper* — Maximum plenum box size nom. 13 in. long by 13 in. wide and 11-7/8 in. high fabricated from galvanized steel. Installed in accordance with the manufacturers installation instructions provided with the damper. Maximum damper openings not to exceed 50 sq. in. per 100 sq ft of ceiling area.

HEATING AND COOLING PRODUCTS — Models 272-1, 272-2
LLOYD INDUSTRIES INC — Model CRD 50-BT-6, CRD 50-EA-BT-6, CRD 55-BT-6, CRD 55-EA-BT-6, CRD50-X-BT-6

5B. Ceiling Damper* — Maximum size ceiling outlet in plenum box nom. 12 in. long by 12 in. wide. Plenum box fabricated from galvanized steel. Installed in accordance with the manufacturers installation instructions provided with the damper. Maximum damper openings not to exceed 72 sq. in. per 100 sq ft of ceiling area.

ARE TECHNOLOGIES INC — Models: CRD model 50 w/Boot, CRD model 50EA w/Boot, CRD model 55 w/Boot, CRD model 55EA w/Boot
LLOYD INDUSTRIES INC — Model CRD 50-95BT, CRD 50-EA-95BT, CRD 55-95BT, CRD 55-EA-95BT

5C. Alternate Ceiling Damper* — (Optional) — For use with min 18 in. deep trusses. Max size ceiling outlet in plenum box nom 16 in. long by 16 in. wide. Aggregate damper openings shall not exceed 128 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. Maximum damper openings not to exceed 50 sq in. per 100 sq ft of ceiling area.

CROWN PRODUCTS CO INC — Models CRD50-FGPB-4.2-CP, -6.0-CP; CRD50-FGPB-4.2-EA-CP, -6.0-EA-CP
LLOYD INDUSTRIES INC — Models CRD 50-FGPB-4.2, -4.2 NI, -6.0, -6.0 NI; CRD50-EA-FGPB-4.2, -4.2 NI, -6.0, -6.0 NI

5D. Ceiling Damper* — (Optional) — For use with min 18 in. deep trusses Max plenum box size nom 15 in. long by 15 in. wide and 11-7/8 in. high fabricated from galv steel. Aggregate damper openings shall not exceed 72 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper.

LLOYD INDUSTRIES INC — Models 45-CRD-LT-BT and 45-CRD-LT-BT

5E. Ceiling Damper* — (Optional) — For use with min 18 in. deep trusses Max size ceiling outlet in plenum box nom 10 in. long by 10 in. wide. Plenum box fabricated from galv steel. Aggregate damper openings shall not exceed 50 sq in. per 100 sq ft of ceiling area. Installed in accordance with the manufacturers installation instructions provided with the damper.

LLOYD INDUSTRIES INC — Model 45-LTD-95-BT-4

5F. Alternate Ceiling Damper* — For use with min 18 in. deep trusses Max plenum box size nom 19 in. long by 15 in. wide and 11-7/8 in. high fabricated from galv steel. Aggregate damper openings shall not exceed 96 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper.

LLOYD INDUSTRIES INC — Model CRD50-X-BT

5G. Alternate Ceiling Damper* — For use with min. 18 in. deep trusses. Max. nom area shall be 348 sq in. Max. overall length and width shall not exceed 18-11/16 in. by 18-11/16 in. with max. 16 in. by 16 in. register opening. Aggregate damper openings shall not exceed 175 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. An aluminum or steel grille (Item 9) shall be installed in accordance with installation instructions.

MIAMI TECH INC — Model Series RxCRD, RxCRDS or RxCRPD

5H. Alternate Ceiling Damper* — For use with min. 18 in. deep trusses Max plenum box size nom 19 in. long by 19 in. wide and 11-7/8 in. high fabricated from galv steel. Aggregate damper openings shall not exceed 128 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper.

METAL-FAB INC — Models MSCD-HC and MRCD-HC

6. Resilient Channels — Resilient channels formed of 25 MSG thick galv steel, spaced 16 in. OC, installed perpendicular to trusses. When batt and blanket material, Item 3, is draped over the resilient channel/gypsum wallboard ceiling membrane, the spacing shall be 12 in. OC. Channels secured to each truss with 1-1/4 in. long Type S steel screws. Channels overlapped 4 in. at splices. Channels oriented opposite at wallboard butt joints (spaced 6 in. OC) as shown in the above illustration.

6A. Resilient Channels - (Not Shown) — For Use With Item 7A - Formed from min 25 MSG galv steel installed perpendicular to trusses and spaced 16 in. OC. Channels secured to each truss with 1-5/8 in. long Type S bugle head steel screws. Channels overlapped 4 in. at splices. Two channels, spaced 6 in. OC, oriented opposite each gypsum panel end joint. Additional channels shall extend min 6 in. beyond each side edge of panel. Insulation, Items 3A or 3B, is applied over the resilient channel/gypsum panel (Item 7A) ceiling membrane.

7. Gypsum Board* — Nom 5/8 in. thick, 48 in. wide, installed with long dimension perpendicular to resilient channels with 1 in. long Type S screws spaced 12 in. OC and located a min of 3/4 in. from side joints and 3 in. from the end joints. At end joints, two resilient channels are used, extending a min of 6 in. beyond both ends of the joint. When batt and blanket insulation, Item 3, is draped over the resilient channel/gypsum wallboard ceiling membrane, screws shall be installed at 8 in. OC.

AMERICAN GYPSUM CO — Type AG-C
CGC INC — Types C, IP-X2, IPC-AR
CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Type LGFC-C/A
NATIONAL GYPSUM CO — Types eIP-C, FSW-G, FSW-C, FSK-G, FSK-C
UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR
USG BORAL DRYWALL SFZ LLC — Type C
USG MEXICO S A DE CV — Types C, IP-X2, IPC-AR

7A. Gypsum Board* - (Not Shown) — For use with Items 3A or 3B and 6A. Nom 5/8 in. thick, 48 in. wide gypsum panels installed with long dimension perpendicular to resilient channels. Gypsum panels secured with 1 in. long Type S bugle head steel screws spaced 8 in. OC and located a min of 1/2 in. from side joints and 3 in. from the end joints. Finish Rating with this ceiling system is 20 min.

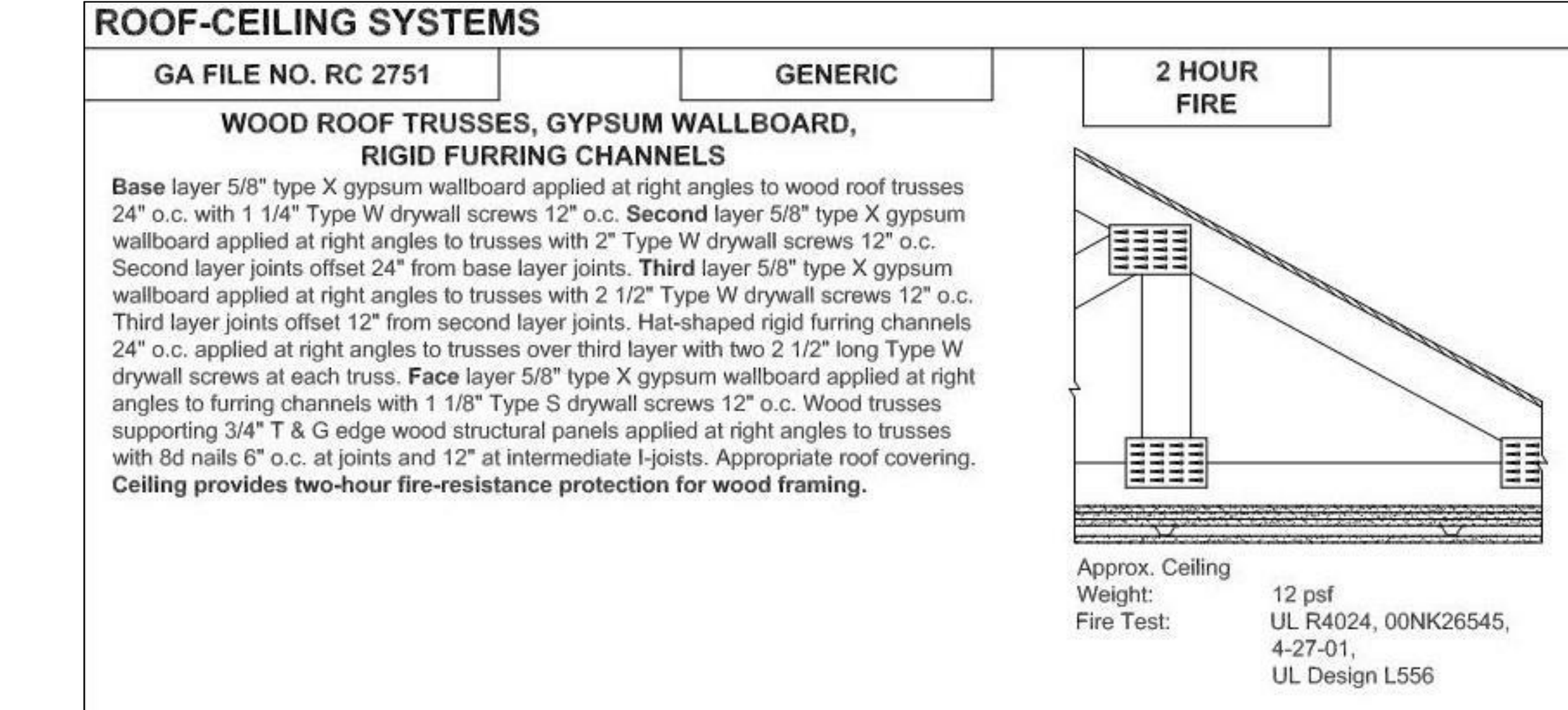
UNITED STATES GYPSUM CO — Type ULIX

8. Finishing System — (Not Shown) — Vinyl, dry or premixed joint compound, applied in two coats to joints and screw-heads; paper tape, 2 in. wide, embedded in first layer of compound over all joints. As an alternate, nom 3/32 in. thick veneer plaster may be applied to the entire surface of gypsum wallboard.

9. Grille — Aluminum or Steel grille, installed in accordance with the installation instructions provided with the ceiling damper.

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

C3 UL P544
NTS
Last Updated on 2017-08-16



GA FILE NO. RC 2751
GENERIC
2 HOUR FIRE

Base layer 5/8" type X gypsum wallboard applied at right angles to wood roof trusses 24" o.c. with 1 1/4" Type W drywall screws 12" o.c. Second layer 5/8" type X gypsum wallboard applied at right angles to trusses with 2" Type W drywall screws 12" o.c. Second layer joints offset 24" from base layer joints. Third layer 5/8" type X gypsum wallboard applied at right angles to trusses with 2 1/2" Type W drywall screws 12" o.c. Third layer joints offset 12" from second layer joints. Hat-shaped rigid furring channels 24" o.c. applied at right angles to trusses over third layer with two 2 1/2" long Type W drywall screws at each truss. Face layer 5/8" type X gypsum wallboard applied at right angles to furring channels with 1 1/8" Type S drywall screws 12" o.c. Wood trusses supporting 3/4" T & G edge wood structural panels applied at right angles to trusses with 8d nails 6" o.c. at joints and 12" at intermediate l-joints. Appropriate roof covering. Ceiling provides two-hour fire-resistance protection for wood framing.

Approx. Ceiling Weight: 12 psf
Fire Test: UL R4024, 00NK26545, 4-27-01, UL Design L556

F1 RC 2751
12" x 14"

ISSUE HISTORY		
No.	Date	Description
1	04/15/2022	PERMIT SUBMITTAL
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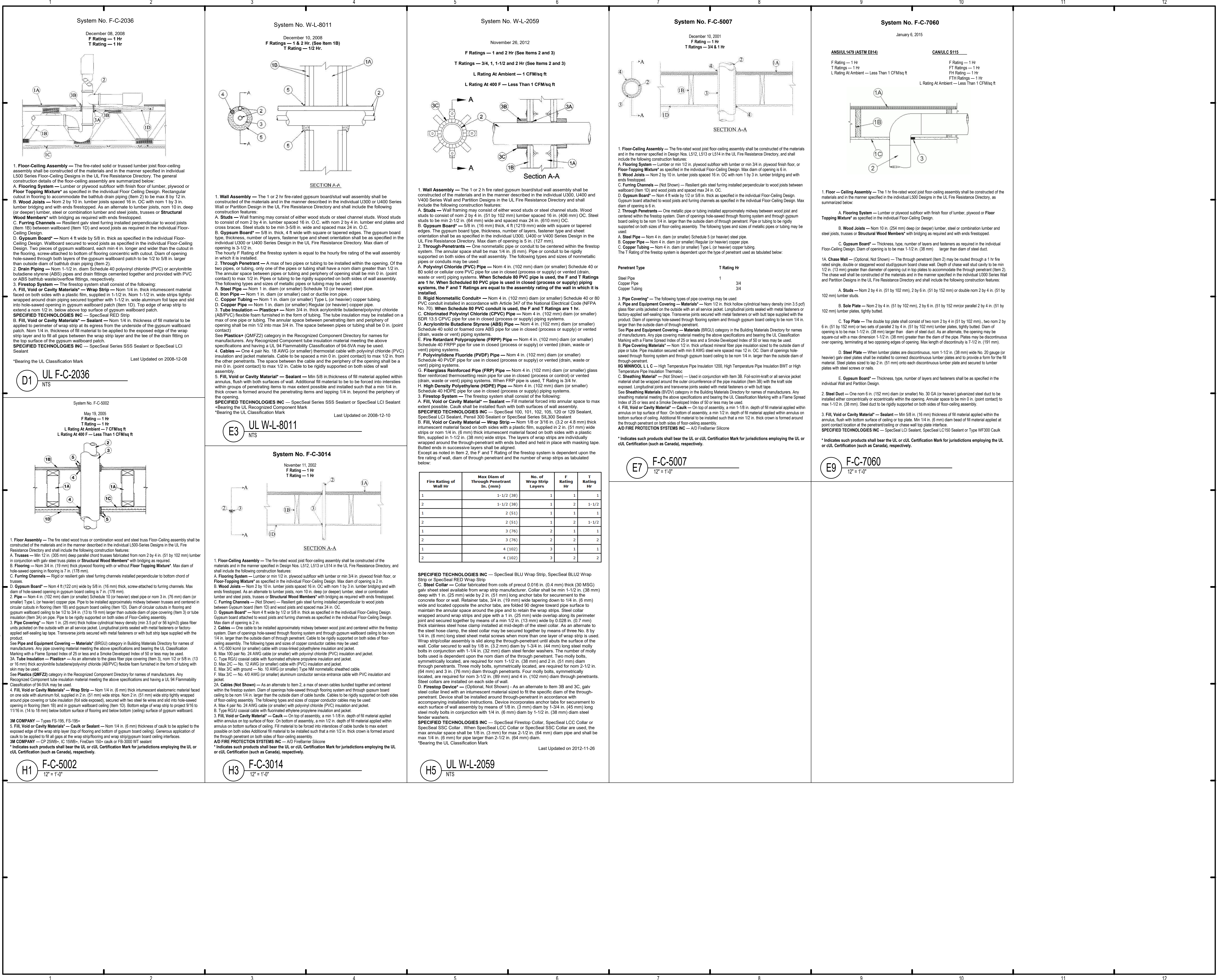
FUGLEBERG KOCH
2555 Temple Trail, Winter Park, FL 32789 (407) 629-0595
www.fuglebergkoch.com AA26002103

CONSULTANT

STATE OF ALABAMA
MICHAEL GOVE
8234
4/15/22
REGISTERED ARCHITECT

MICHAEL GOVE
SEA

THE ROBERT MADISON MADISON, ALABAMA	<table border="1"> <tr><td>Drawn</td><td>MB</td></tr> <tr><td>Checked</td><td>JK</td></tr> <tr><td>Approval</td><td>MS</td></tr> <tr><td>Date</td><td>04/15/2022</td></tr> <tr><td>Project #</td><td>572</td></tr> </table>	Drawn	MB	Checked	JK	Approval	MS	Date	04/15/2022	Project #	572
Drawn	MB										
Checked	JK										
Approval	MS										
Date	04/15/2022										
Project #	572										
UL REFERENCE DIRECTORY ROOF SYSTEM											
A0.35											



ISSUE HISTORY		
No.	Date	Description
1	04/15/2022	PERMIT SUBMITTAL
REVISION HISTORY		
No.	Date	Description

FUGLEBERG KOCH

2555 Temple Trail, Winter Park, FL 32789 (407) 629-0595
www.fuglebergkoch.com AA26002103

CONSULTANT

MICHAEL DOVE
PEM

THE ROBERT MADISON	Drawn: MB
MADISON, ALABAMA	Checked: JK
	Approval: MS
	Date: 04/15/2022
	Project #: 572

UL REFERENCE DIRECTORY PENETRATIONS

A0.37

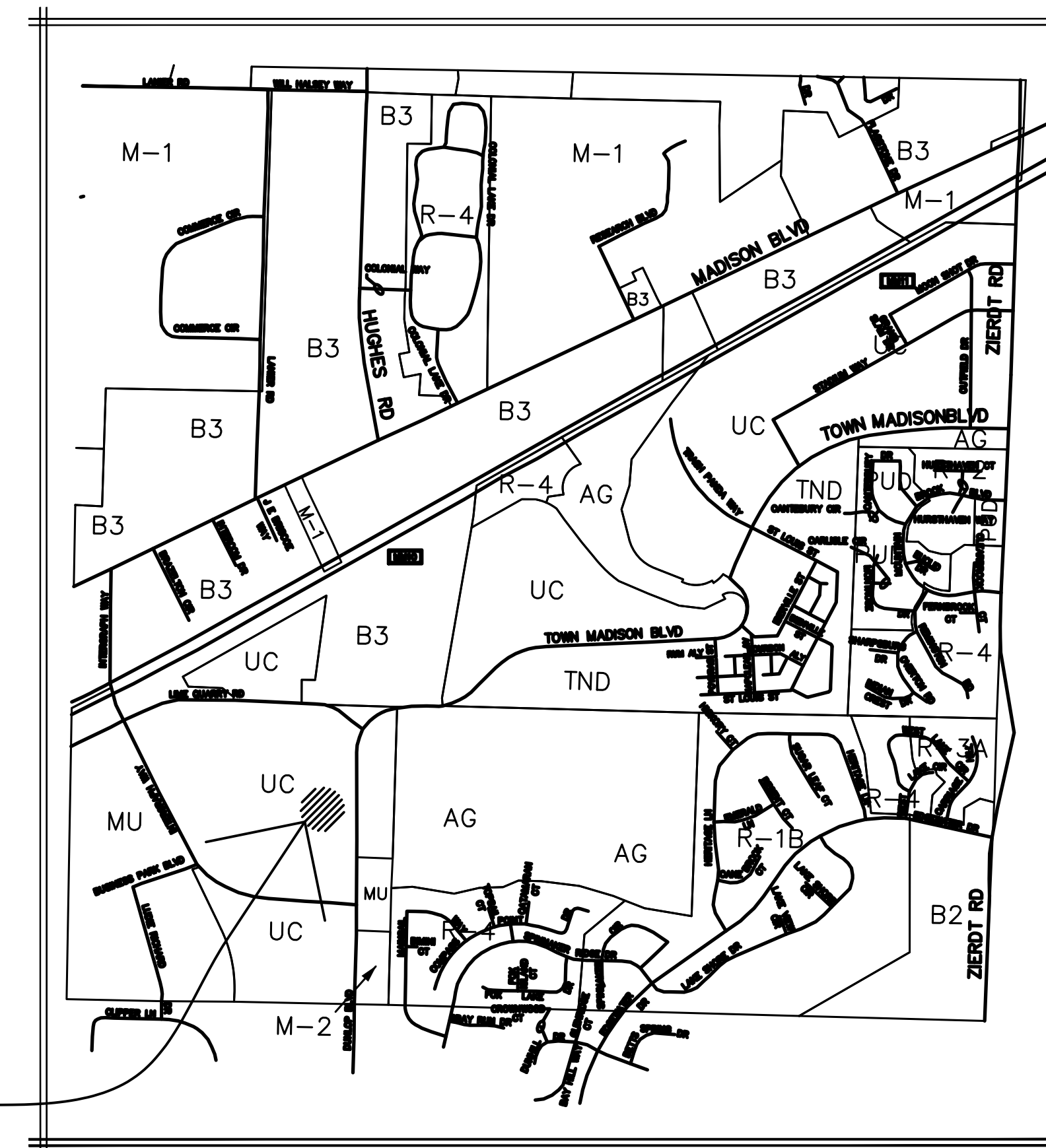
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The Roberts Apartments at Town Madison

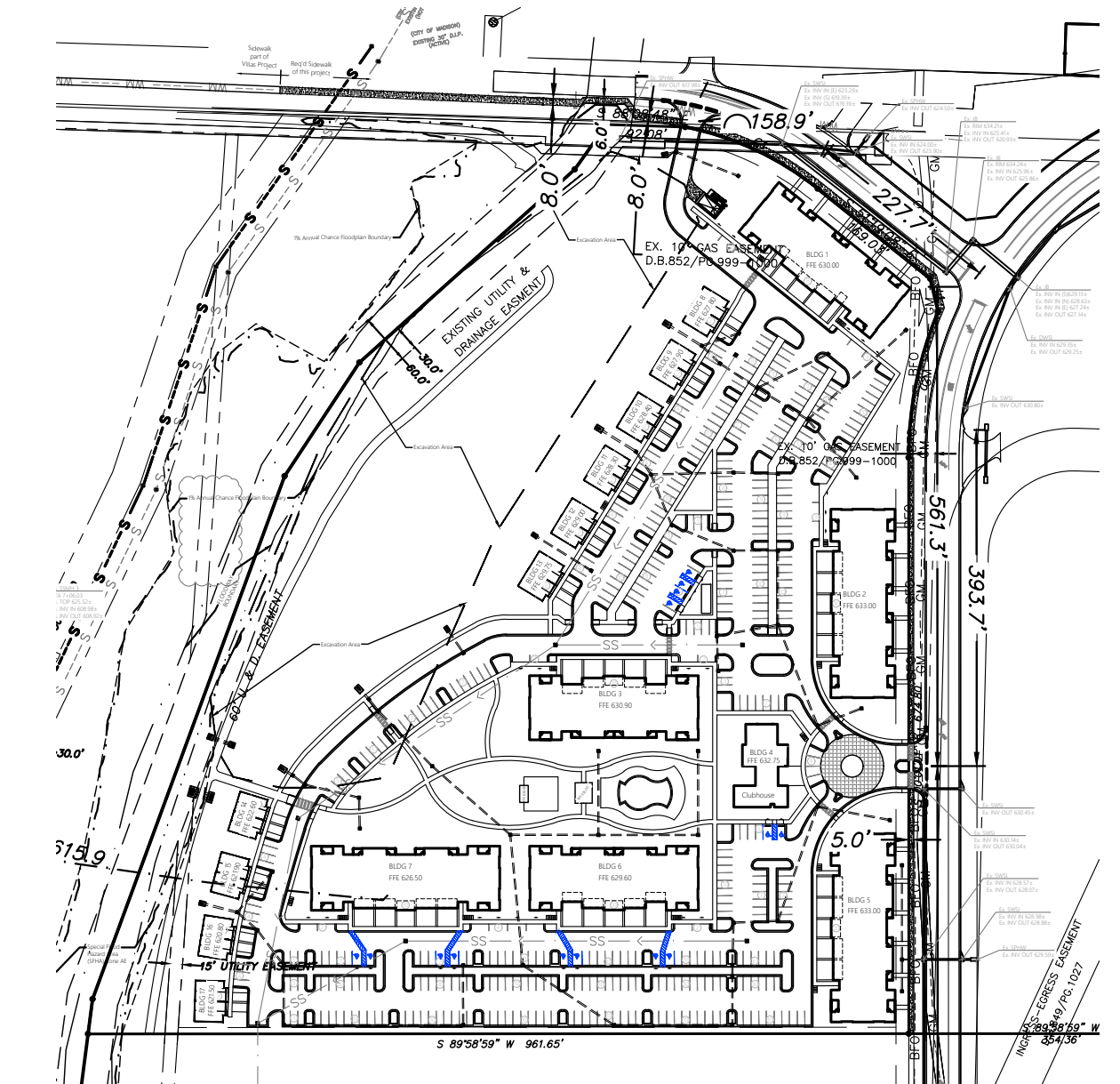
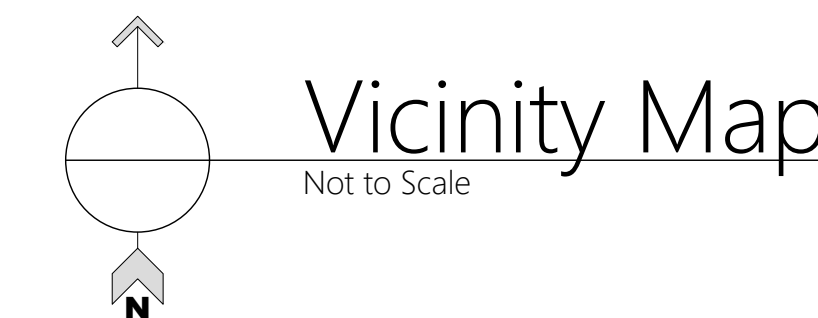
Address:
Dunlop Blvd
Madison, AL 35758

Prepared for:
Rohdie Group

Plan Set Date:
November 16, 2021



Site



FINAL FOR DEVELOPMENT
DEC 8 9 2021

Prepared by:

MULLINS, LLC
CIVIL ENGINEERING, DEVELOPMENT DESIGN
SURVEYING, LANDSCAPE ARCHITECTURE
2101 West Clinton Avenue, Suite 503, Huntsville, AL 35805
(256) 690-5312

General Notes:

- The locations of existing utilities are shown in as approximate only. The contractor shall verify the exact location of all existing utilities before commencing work. Contractor shall be fully responsible for any and all damages which might occur by his failure to exactly locate and preserve any and all utilities.
- Contractor is responsible for making application and paying for necessary permits.
- The Contractor shall prevent the destruction of all survey monuments, bench marks, property corners and all other survey points. Where the removal of such points are necessary for the accomplishment of the work, the Contractor shall inform the Engineer in writing, prior to the disturbance of any point, and shall not disturb the point until written permission to do so has been issued by the Engineer.
- All existing trees outside of the limits of work shall be protected during the accomplishment of the work, and are not to be damaged in any manner.
- All boulders, debris, excess construction materials, material generated from demolition of existing structures and facilities or trash shall be removed from site at contractor's expense.
- Pavement cuts shall be repaired with material in-kind to that removed.
- In accordance with generally accepted construction practices, the contractor is solely and completely responsible for conditions of the job site, including safety of all persons and property during performance of the work. This requirement applies continuously and shall not be limited to normal working hours.
- Contractor shall provide adequate traffic control devices and safety measures for construction work within public right-of-ways in accordance with the Manual on Uniform Traffic Control Devices for Streets and Highways.
- The duty of the Engineer to conduct construction observation of the contractor's performance is not intended to include review of the adequacy of the Contractor's safety measures, in, on or near the construction site.
- The Contractor shall be responsible for cleaning dirt and debris from the adjoining streets parking lots, and drives during construction. Any damage to adjoining and existing facilities shall be repaired by the Contractor, at no additional cost to the owner, during the construction of this site.
- No fill dirt shall be placed on the property that might interfere with drainage flow from adjacent property. Storm drainage system shall be installed prior to fill material being placed.
- The Contractor shall be totally responsible for TVI, vacuum testing manholes, and air testing sewer lines if required.
- No changes shall be made to these approved plans without the Engineer of Record being notified before changes are made and the Engineer of Record acquiring approval from the City Engineer.
- All sanitary sewer pipe shall either be SDR 26 PVC or Class 350 Ductile Iron.
- The City of Madison Construction Specifications Manual for Public Improvements, latest edition and any revision thereof, are hereby made part of these plans.
- If approval from any State or Federal Regulatory Agency is required to perform work on this project, a copy of each permit required shall be delivered to the City of Madison Engineering Department prior to the approval of said plans.
- The Alabama Handbook for Erosion Control, Sediment Control and Stormwater Management on Construction Sites and Urban Areas, Vol. 1 and 2, latest edition and any revision thereof, are hereby made a part of these plans.
- Contractor is required to schedule a Pre-Construction meeting with Engineering Inspector before commencement of work. Call 256-797-8025 for scheduling or go to www.madisonal.gov/index.aspx?NID=126 (pre-construction requirements) for more information.
- Call 811 prior to any digging for Utility work.

Sheet Index

Cover	C0
Existing Conditions & Demolition	Plan C1
Site Plan	C2.X
Keynote Plan	C2.3
Water Infrastructure Plan	C3
Storm Infrastructure Plan	C4.X
Sanitary Sewer Infrastructure Plan	C5.X
Grading & Drainage Plan	C6.X
Erosion Control Plan	C7
Fire Truck Access Plan	C8
Civil Details	C9.X

Certificate of Approval by Fire Department

The undersigned, as a duly authorized representative of the Madison Fire Department, City of Madison, AL, certifies the within site plan has been reviewed and approved.

By: *Scott Nelson*

Date: 12-7-21

Certificate of Approval by City Council

The undersigned, as representative of the City Council of Madison, Alabama, hereby certified that the property and site plan has been approved by the City Council

By: *Doug Se*

Date: 12-7-21

Certificate of Approval by City Engineer

The undersigned, as City Engineer of the City of Madison, AL, hereby approves the within site plan.

By: *E. Michelle Denson*

Date: December 3, 2021

Certificate of Approval by Planning Director

The undersigned, as Director of Planning for the City of Madison, AL, hereby certifies that the property and site plan has been inspected, reviewed, and found to be compliant with the City's Zoning Ordinance and Subdivision Regulations.

By: *A. Fisher*

Date: 12/9/2021

Madison Utilities

Submitted for approval:

APPROVED:

ENGINEER

BUSINESS DEVELOPMENT
COORDINATOR

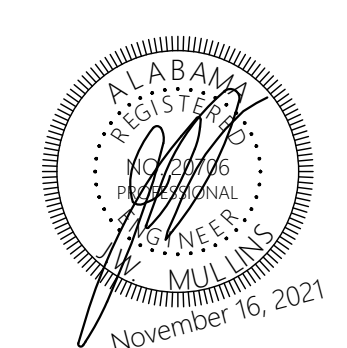
DEVELOPER

GENERAL MANAGER

NOTE: CONSTRUCTION SPECIFICATIONS FOR WATER AND SANITARY SEWER LATEST EDITION AS ADOPTED BY MADISON UTILITIES (MU), IS HEREBY MADE PART OF THESE PLANS. CONTRACTOR SHALL CONTACT MU TO SCHEDULE A PRE-CONSTRUCTION MEETING PRIOR TO THE START OF ANY WATER OR SEWER CONSTRUCTION.

**TOWN
MADISON**

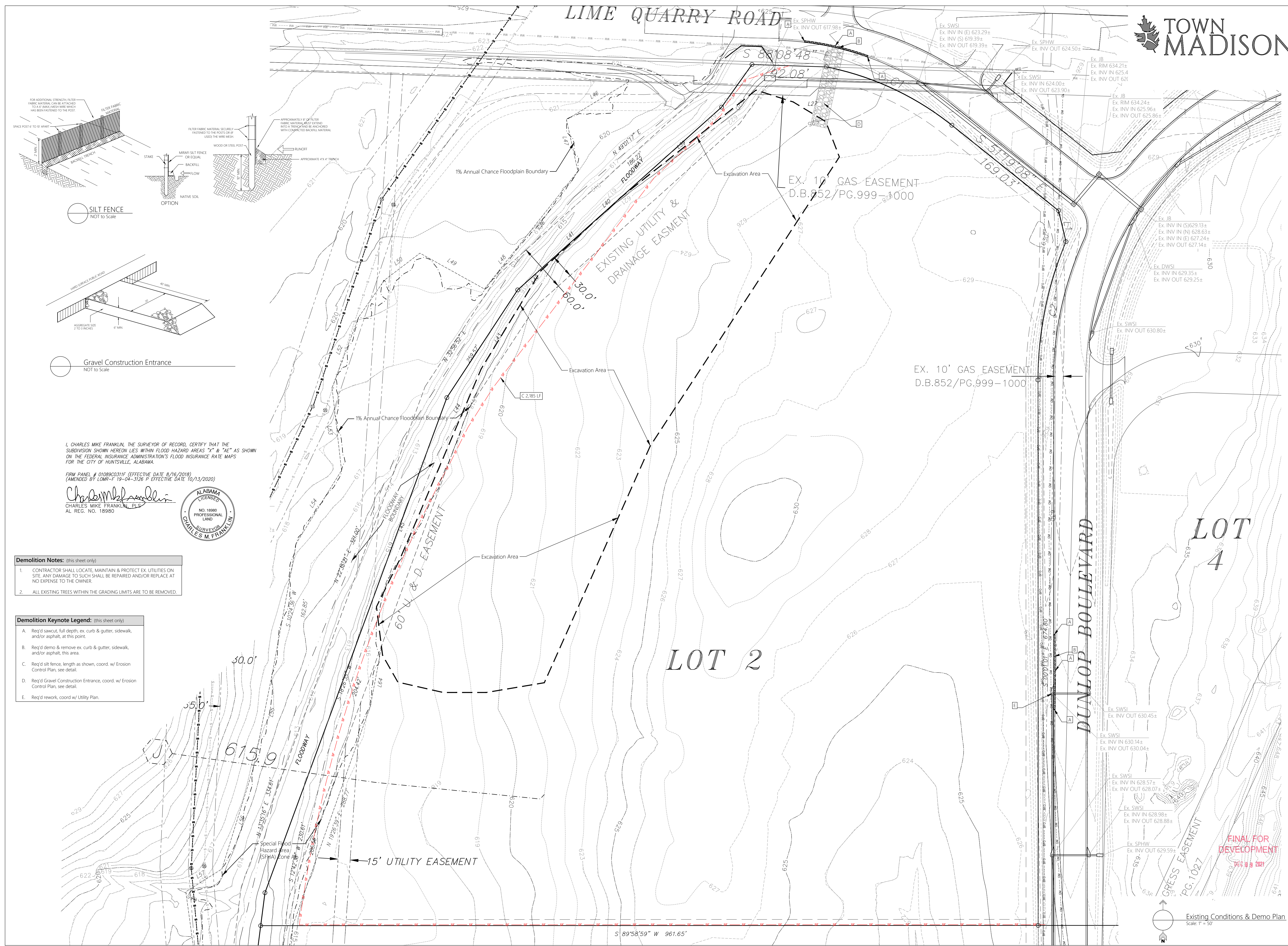
MULLINS, LLC
CIVIL ENGINEERING, DEVELOPMENT DESIGN
SURVEYING, LANDSCAPE ARCHITECTURE
201 West Clinton Avenue, Suite 503, Huntsville, AL 35895
(256) 690-5312



The Roberts Apartments at TM
Madison, AL
PREPARED FOR: Rohlfie Group

Existing Conditions & Demolition Plan
Job No: 21-128
Date: 2021 11-16
Drawn By: JLH
Checked By: RS
SHEET NUMBER **C1**

LIME QUARRY ROAD

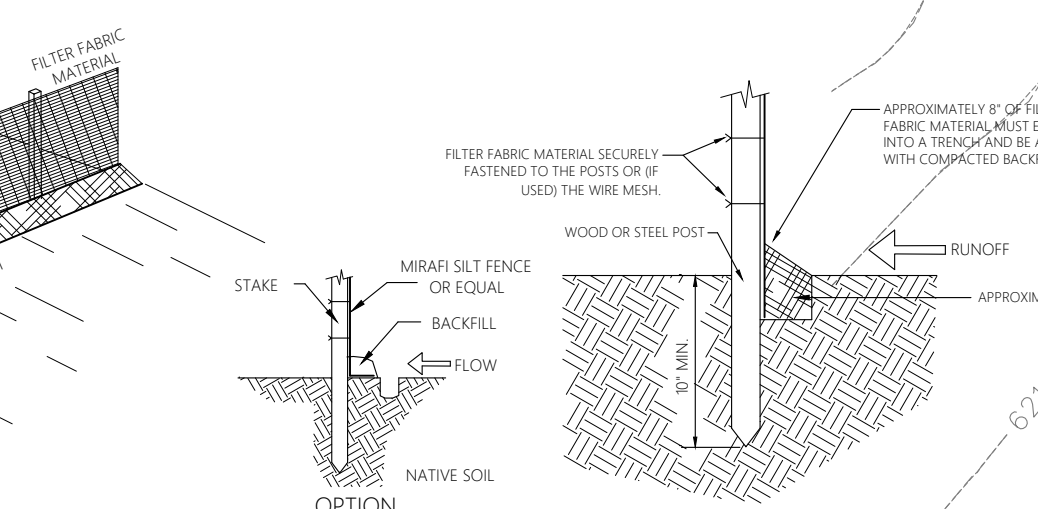


FINAL FOR DEVELOPMENT
7/13/2021

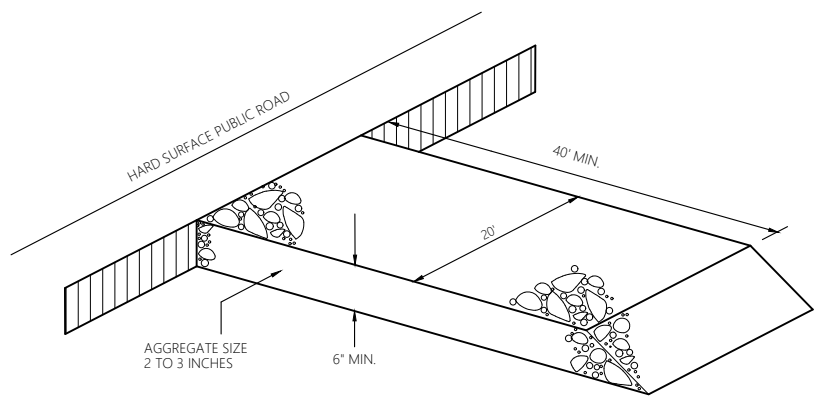
Existing Conditions & Demo Plan
Scale: T = 50'

REVISIONS

DATE	DESCRIPTION	BY



SILT FENCE
NOT TO SCALE



Gravel Construction Entrance
NOT TO SCALE

I, CHARLES MIKE FRANKLIN, THE SURVEYOR OF RECORD, CERTIFY THAT THE SUBDIVISION SHOWN HEREON LIES WITHIN FLOOD HAZARD AREAS "X" & "AE" AS SHOWN ON THE FEDERAL INSURANCE ADMINISTRATION'S FLOOD INSURANCE RATE MAPS FOR THE CITY OF HUNTSVILLE, ALABAMA.

FIRM PANEL # 010900311F (EFFECTIVE DATE 8/16/2018)
(AMENDED BY LOAR-F 19-04-3126 P EFFECTIVE DATE 10/13/2020)
Charles M. Franklin
CHARLES MIKE FRANKLIN, PLS
AL REG. NO. 18980



Demolition Notes: (this sheet only)

- CONTRACTOR SHALL LOCATE, MAINTAIN & PROTECT EX. UTILITIES ON SITE. ANY DAMAGE TO SUCH SHALL BE REPAIRED AND/OR REPLACE AT NO EXPENSE TO THE OWNER.
- ALL EXISTING TREES WITHIN THE GRADING LIMITS ARE TO BE REMOVED.

Demolition Keynote Legend: (this sheet only)

- Req'd sawcut, full depth, ex. curb & gutter, sidewalk, and/or asphalt, at this point.
- Req'd demo & remove ex. curb & gutter, sidewalk, and/or asphalt, this area.
- Req'd silt fence, length as shown, coord. w/ Erosion Control Plan, see detail.
- Req'd Gravel Construction Entrance, coord. w/ Erosion Control Plan, see detail.
- Req'd rework, coord w/ Utility Plan.

LIME QUARRY ROAD



THE INTERSECTION SITE DISTANCE AND GEOMETRIC DESIGN OF THIS SUBDIVISION MEET RECOMMENDATIONS SET FORTH IN THE PREVAILING AASHTO STANDARDS.

LOCATION	DESIGN SPEED	INTERSECTION-SIGHT-DISTANCE				SIGHT DISTANCE SATISFIED
		AASHTO GUIDELINES	ACTUAL	SIGHT DISTANCE		
DRIVE @ LIMESTONE QUARRY ROAD	25 MPH	RIGHT	LEFT	RIGHT	LEFT	YES
DRIVE @ DUNLOP BLVD	45 MPH	500	430	500+	500+	YES

Fire Flow & Notes:	
Date & Time Tested:	6-3-21 at 9:20 AM
Static	112
Residual	88
Flow	1465 GPM
Note: Knox Boxes shall be required for riser room access	

City Notes:

- All traffic control devices shall be erected and maintained in conformance with the Manual of Uniform-Control Devices and any revisions thereof.
- Required fire flows cannot be determined precisely until the specific building use, construction type, and other factors have been disclosed and reviewed. The applicant will comply with the fire flow and fire safety and suppression requirements and all adopted city codes and regulations.
- All drainage ditches are to be centered on property lines unless shown.
- All utilities will be underground.
- If adverse conditions are uncovered during construction, the city engineer may require modification of these plans to the extent necessary to assure compliance with the city's construction specifications manual.
- Setbacks are governed by the latest addition of the Madison Zoning Ordinance.
- Any signage requires separate review, approval, and permitting.

Layout Notes:

- All dimensions are from back of curb, U.N.O.
- Sidewalks to have max cross slope of 2%.

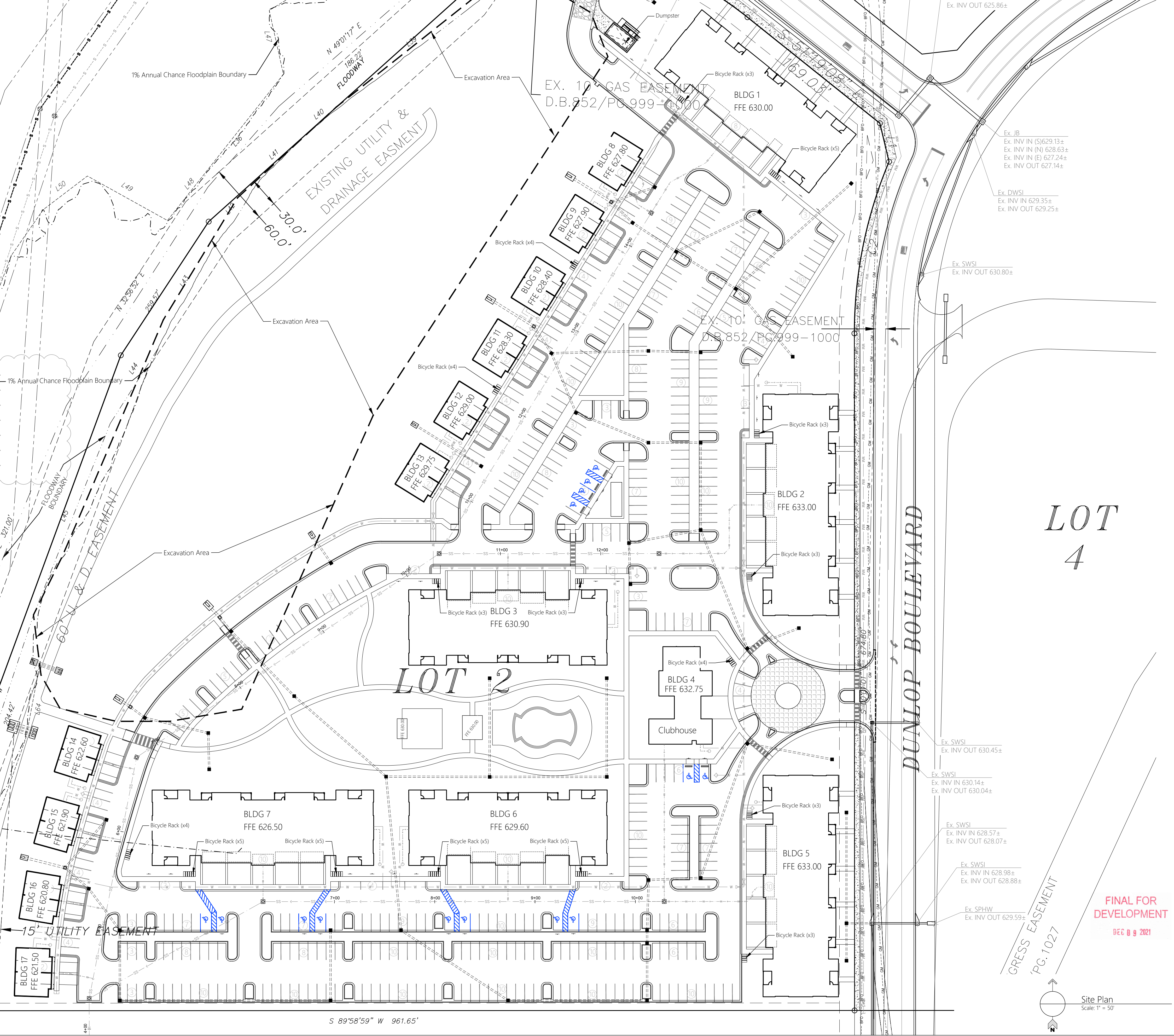
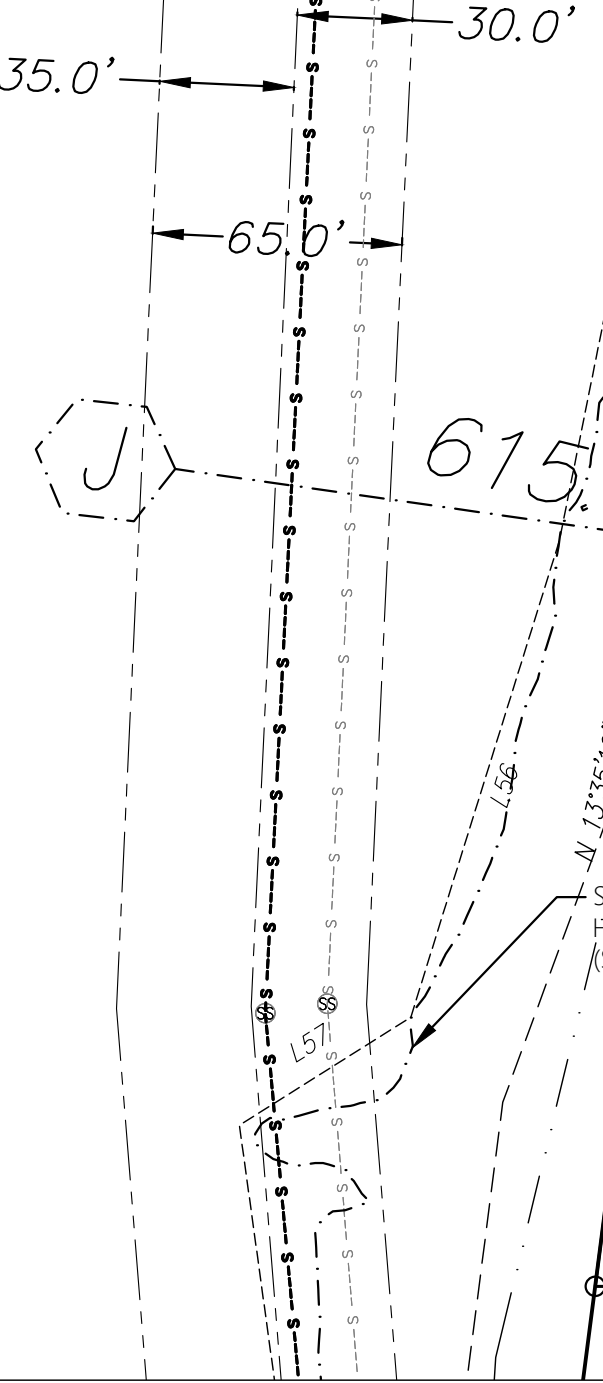
Site Notes:

- Property line bearings are based on state plan coordinates, NAD 1983, as determined by CORS, GTAC. Distances are based on actual field survey. All bearing and distances are plat and measured.
- All traffic control devices shall be erected and maintained in conformance with the Manual on Uniform Traffic Control Devices and any revisions thereof.
- All drainage ditches shall be centered on property lines unless otherwise shown.
- All utilities are underground.
- If adverse conditions on the site are uncovered during construction, the City Engineer may require modification to these plans to the extent necessary to assure compliance with the City's Construction Specifications.
- All lots shall be graded so that runoff will be directed to the Street or to drainage ways in a dedicated easement.
- Setbacks are governed by the latest edition of the Madison Zoning Ordinance.
- Required fire flows cannot be determined precisely until the specific building use, construction type, and other factors have been disclosed and reviewed. The applicant will comply with the fire flow and fire safety and suppression requirements of all adopted City codes and regulations.
- Plaza areas shall be hardscape areas of concrete, paver, or some other durable, consistent material, compliant with ADA accessible surfaces, pattern & materials to be further refined through the design and construction process.
- Contractor shall coordinate with site Engineer for handicap ramp layout prior to construction to ensure compliance with design and ADA requirements.
- Special maintenance agreement for utilities under streetscape conditions/elements/materials (pavers, walls, trees, etc.) required prior to issuance of C.O.
- Coordinate with Geotechnical Engineer to ensure roads in excavated areas achieve proper compaction to Geotechnical Engineers requirements and recommendations.

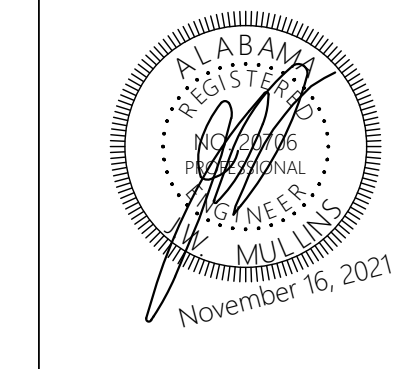
Site Information:

Total Lot Area:	30.48 acre (1,327,894 sf)
Pre Subdivided Remaining Property:	12.81 acre (558,067 sf)
Post Subdivision:	17.67 acre (769,807 sf)
Zoning District:	UC (Urban Center District)
Adjoining Zoning:	B3 (General Business District)
North:	UC (Urban Center District)
South:	UC (Urban Center District)
West:	UC (Urban Center District)
East:	UC (Urban Center District)
Building Info:	Residential Buildings NFPA 13r
Sprinkler System:	4
Stories (max):	4
Height:	4-Story Buildings: 55'-3"
Townhouse/Apartment:	27'-0"
Type of Construction:	V(a)
Others:	V(b)
Occupancy type:	R-2
Residential Buildings:	A-3
Clubhouse & Fitness Buildings:	U
Dumpster Enclosure:	
Units:	
1 Bed:	102
2 Bed:	138
3 Bed:	44
Total:	284
Density Schedule:	
Net:	284/17.67 = 16.07 = 16 units/acre
Building Number:	SF * Stories
Building 1:	12,989 * 4 = 51,956 sf
Building 2 & 5:	14,612 * 4 = 116,896 sf
Building 3 & 6:	13,043 * 4 = 104,344 sf
Building 4:	4,415 * 1 = 4,415 sf
Building 7:	14,610 * 4 = 58,440 sf
Building 8 - 17:	1,787 * 2 = 32,166 sf
Grill Building:	480 * 1 = 480 sf
Maintenance and Pool Building:	200 * 1 = 200 sf
Total:	317,948 sf / 769,807 sf = 0.41
Ratio:	
Total Disturbed Area:	
Total:	17.67 acre
Parking Information:	
Req'd Parking Units:	1.0 * units (1 bed) + 2.0 * units (2 bed) + 2.5 * units (3 bed) ==>
	1.0 * 102 + 2 * 138 + 2.5 * 44 = 102 + 276 + 110 =
Total Required:	488
Total Provided:	520
Clubhouse/Rental Office:	
Total Required:	1
Total Provided:	17
Tandem Spaces:	78
ADA Accessible Parking:	
Req'd Parking:	13
Total Provided:	14
Bicycle Information:	
Req'd Spaces:	unit / 5 ==> 284/5 = 56.8
Units:	57
Total Required:	62
Total Provided:	62

Parking Table:	
Parking Info	
Attached Garage	78
Open	442
- Compact	21 (4.8%)
- Standard Parking	421 (95.2%)
Total	520
Tandem Spaces	78
Clubhouse/Visitor	17
Bicycle	62



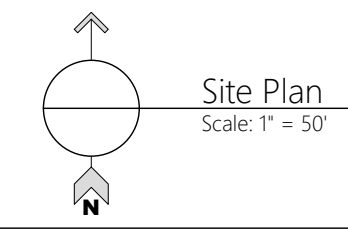
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 2101 West Clinton Avenue, Suite 503, Huntsville, AL 35805
 (256) 690-5312



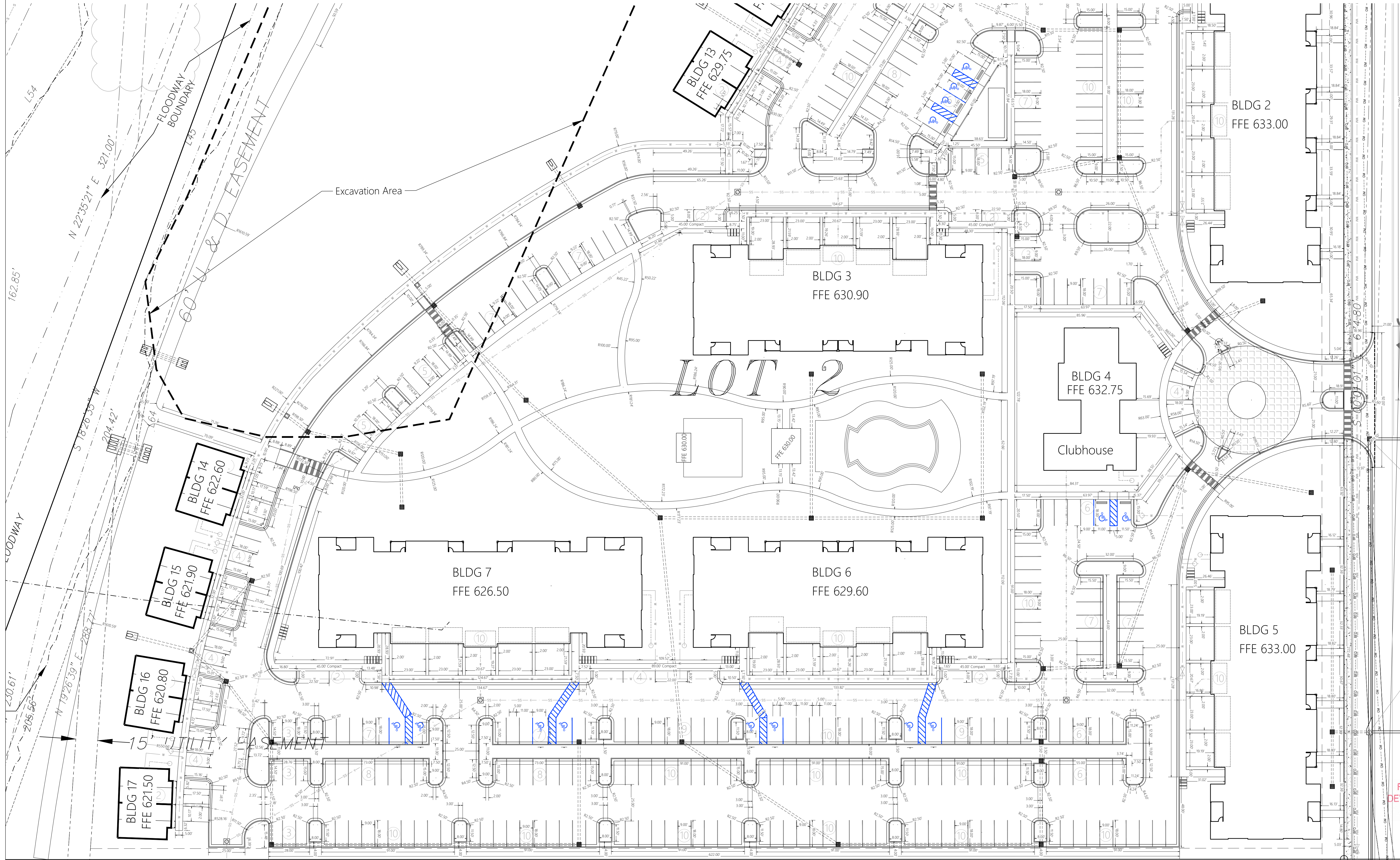
The Roberts Apartments at TM
 Madison, AL
 PREPARED FOR: Rohlfie Group

Site Plan
 Job No. 21-128
 Date: 2021-11-16
 Drawn By: JLH
 Checked By: RS
 SHEET NUMBER
C2

FINAL FOR DEVELOPMENT
 DEC 9 2021



Layout Notes:
 1. All dimensions are from back of curb, U.N.O.
 2. Sidewalks to have max cross slope of 2%.



REVISIONS
 DATE: ---
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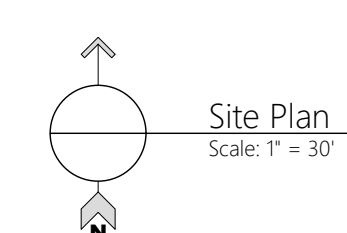


The Roberts Apartments at TM
 Madison, AL
 PREPARED FOR: Rohdite Group

FINAL FOR DEVELOPMENT Site Plan
 DEC 29 2021

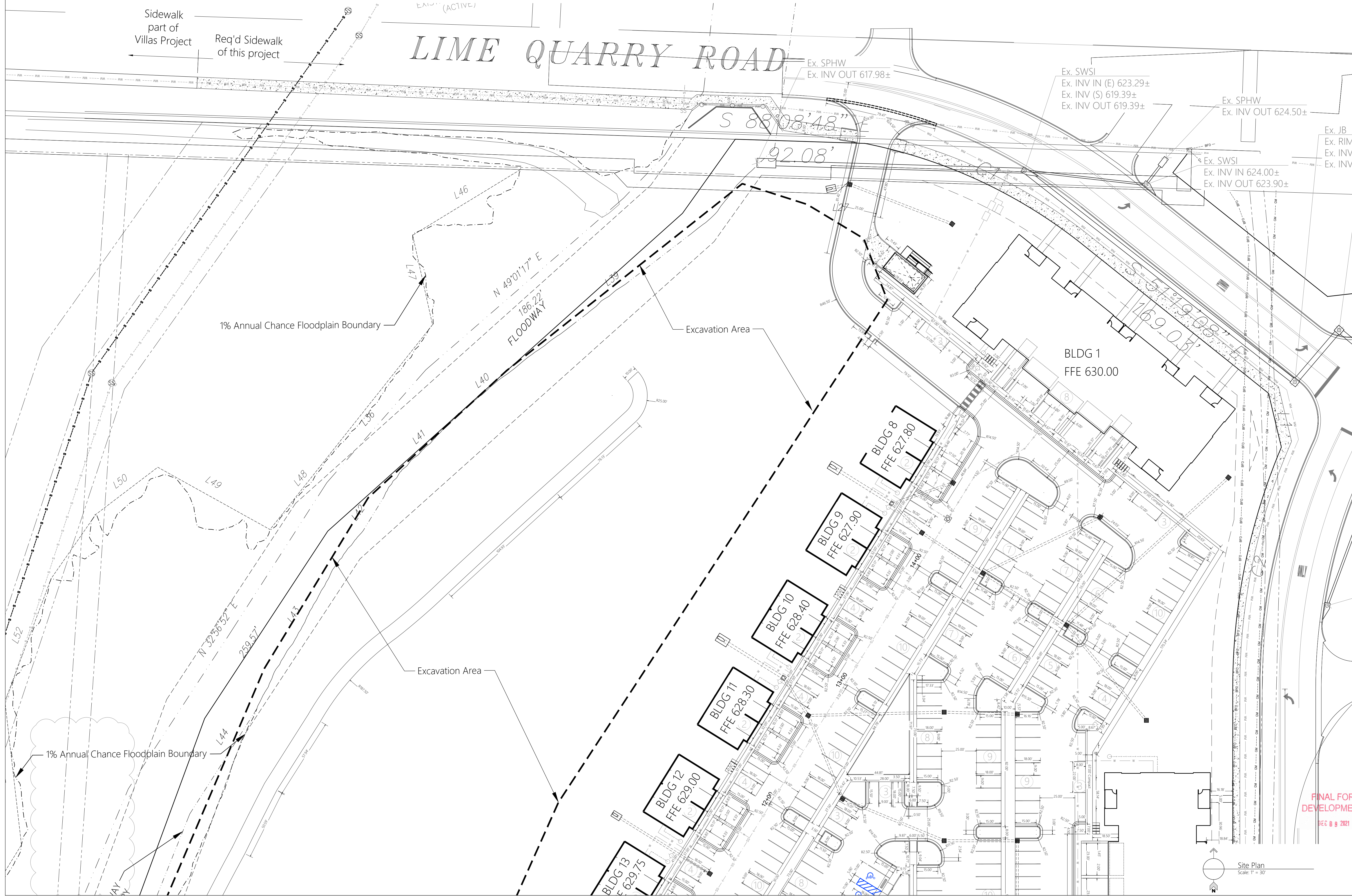
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 Date: 2021-11-16
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SHEET NUMBER
C2.1



S 89°58'59" W 961.65'

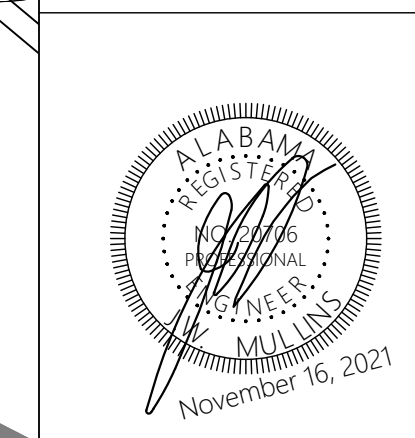
Layout Notes:
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REVISIONS	DATE	BY	DESCRIPTION

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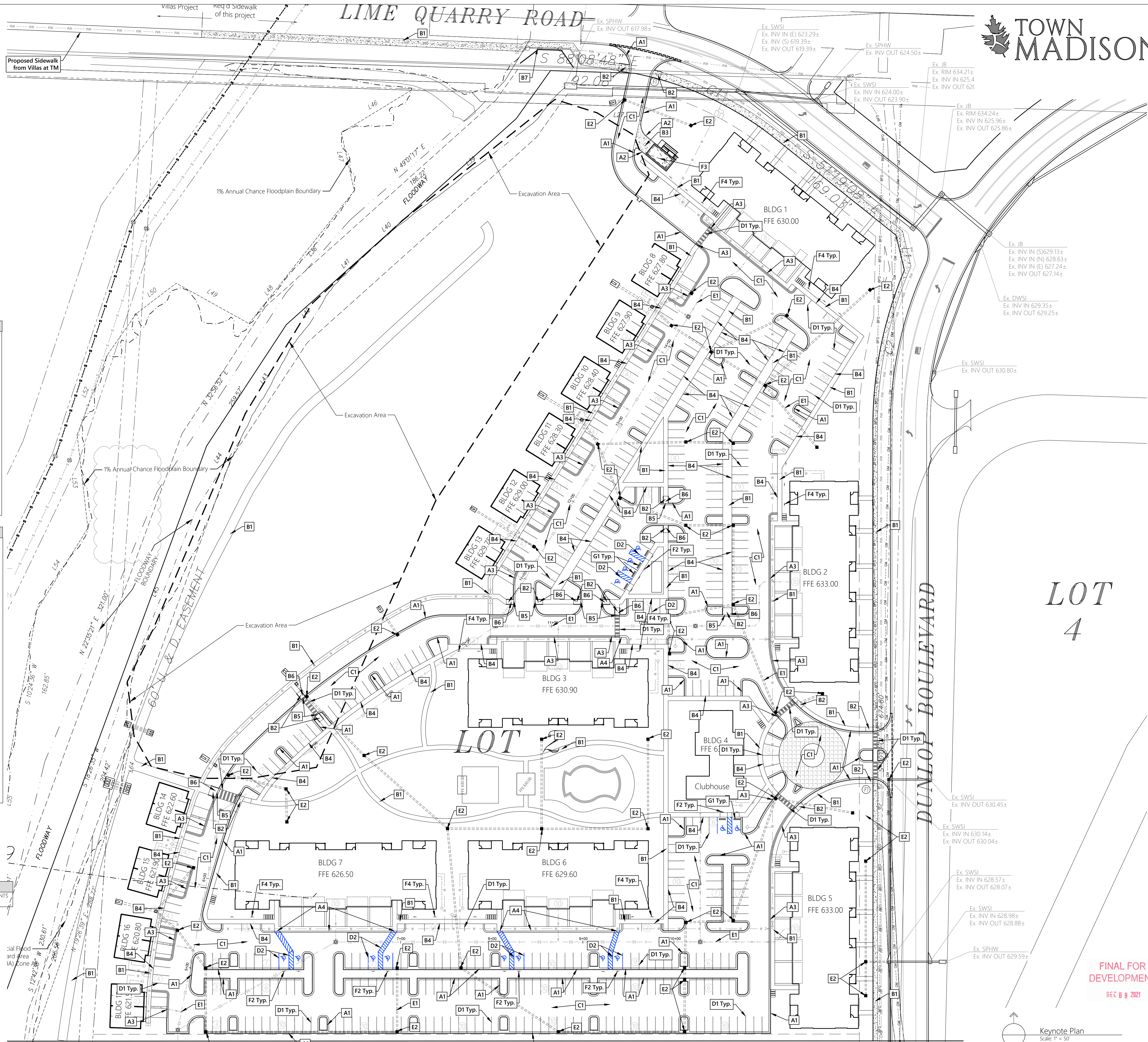
FINAL FOR
 DEVELOPMENT
 DEC 09 2021

Site Plan
 Scale: 1" = 30'

SHEET NUMBER
C2.2

Site Plan
 Job No: 21-128
 Date: 2021 11-16
 Drawn By: JLH
 Checked By: RS

LIME QUARRY ROAD

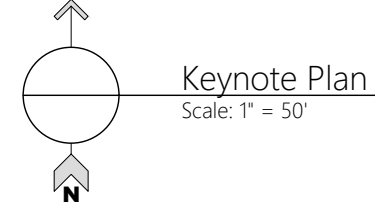
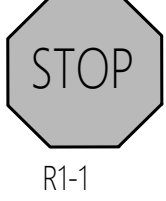


- Notes:**
- All traffic control devices shall be erected and maintained in conformance with the Manual on Uniform Traffic-Control Devices and any revision thereof.
 - Required Fire Flows cannot be determined precisely until the specific building use, construction type and other factors have been disclosed and reviewed. The applicant will comply with the fire flow and fire safety and suppression requirements of all adopted city codes and regulations.
 - All drainage ditches are to be centered on property lines unless otherwise shown.
 - All utilities shall be underground.
 - If adverse conditions are uncovered during construction, the city engineer may require modification of these plans to the extent necessary to assure compliance with the City's construction specification manual.
 - All lots shall be graded so that run-off will be directed to the street or to drainage ways in a dedicated easement.
 - Setbacks are governed by the latest edition of the Zoning Ordinance of the City of Madison.
 - Dumpster enclosure, per City of Madison requirements, required prior to Certificate of Occupancy for building.

- Keynote Legend:**
- A1 Req'd Standard 24" Conc. Curb & Gutter, see detail.
 - A2 Req'd Concrete Integral Curb, see detail.
 - A3 Req'd Fully Mountable Curb w/ Channel, see detail.
 - A4 Req'd 18" Conc. Ribbon Curb, see detail.
 - B1 Req'd 4" thick Conc. Sidewalk, width as shown.
 - B2 Req'd Curb Ramp, curb-return style.
 - B3 Req'd 6" thick Conc. Paving with 6x6/10 WWM.
 - B4 Req'd Turn-down Sidewalk, see detail.
 - B5 Req'd flush condition between pavement and sidewalk, coord. w/ Grading Plan.
 - B6 Req'd truncated domes and detectible warning pavers.
 - B7 Req'd sidewalk guardrail, per Town Madison Specs.
 - C1 Req'd Asphalt Paving, see detail.
 - D1 Req'd parking stall striping, white, 4" wide, painted.
 - D2 Req'd ADA parking stall striping & markings, blue, 4" wide, painted.
 - E1 Req'd Utility Infrastructure, see Utility Plan.
 - E2 Req'd Grate Inlet, see Utility Plan.
 - F1 Req'd "STOP" sign, per Town Madison Specs.
 - F2 Req'd ADA Parking sign, per Town Madison Specs.
 - F3 Req'd Dumpster enclosure, coord. w/ Architectural Plans.
 - F4 Req'd "Compact Parking" sign, per Town Madison Specs.
 - G1 Req'd Concrete 8" Concrete Wheel Stop.

Fire Department Notes:

- SECURITY GATES SHALL MEET MADISON FIRE & RESCUE REQUIREMENTS FOR ACCESSIBILITY (CLICK 2 ENTER)



REVISIONS

DATE	DESCRIPTION

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The Roberts Apartments at TM
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PREPARED FOR: Rohlfie Group

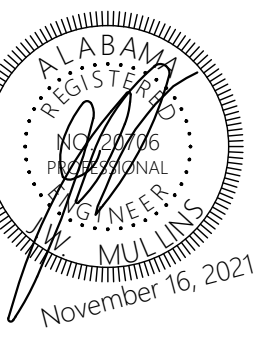
Keynote Plan

Job No: 21-128
 Date: 2021 11-16
 Drawn By: JLH
 Checked By: RS

SHEET NUMBER
C2.3

LOT 4

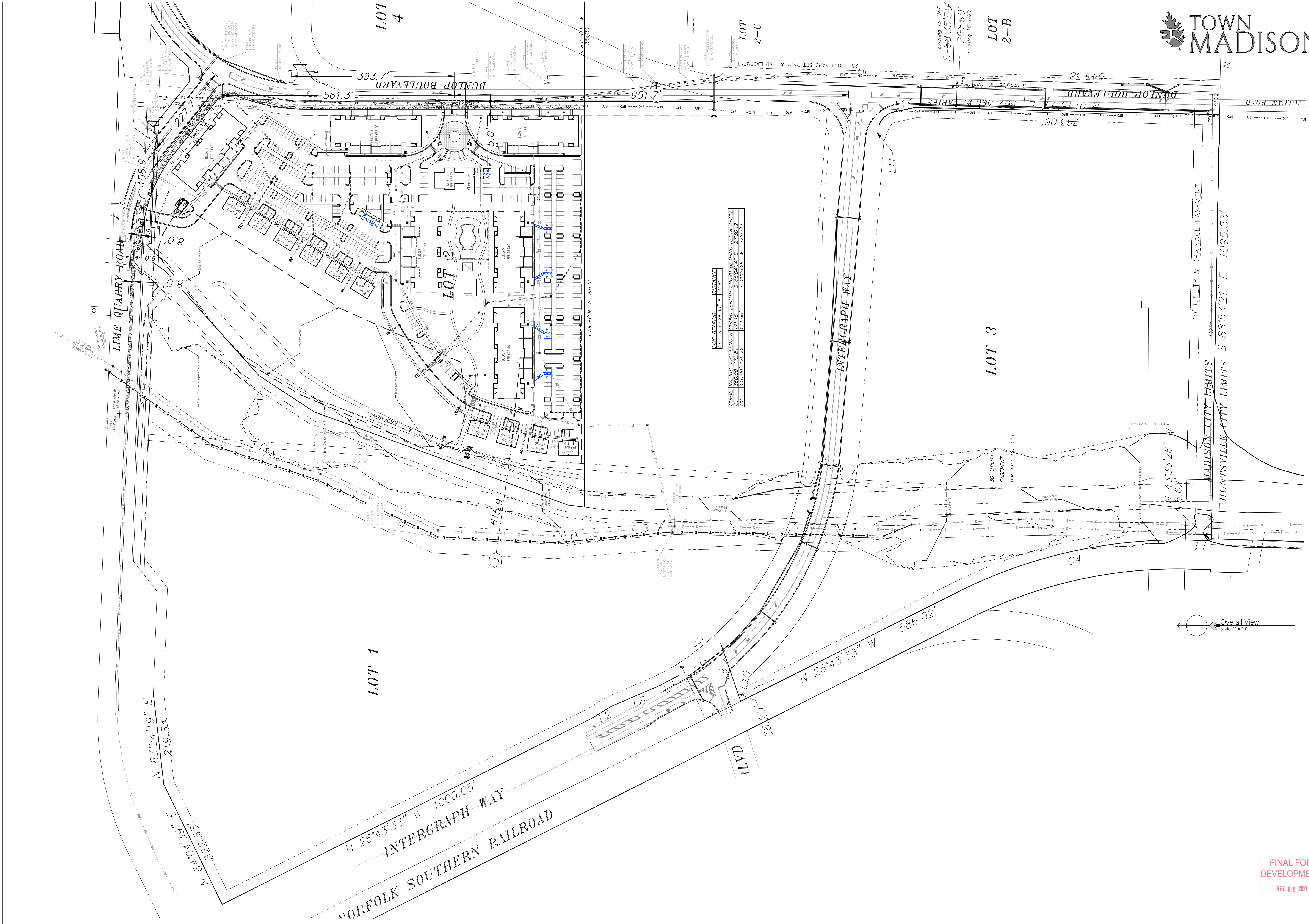
FINAL FOR DEVELOPMENT
 DEC 9 2021



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DEC 8 9 2021

REVISIONS
Date Description
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Overall View
Scale: 1" = 100'

LIME QUARRY ROAD

REVISIONS

NO.	DATE	DESCRIPTION

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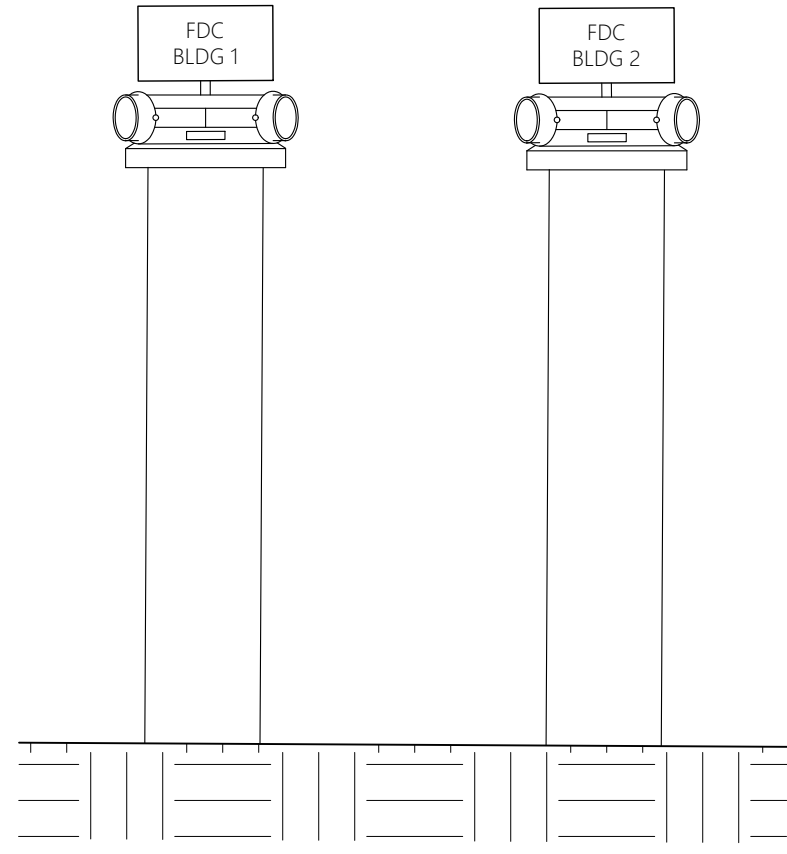
The Roberts Apartments at TM
 Madison, AL

Water Infrastructure Plan

Job No. 21-128
 Date: 2021 11-16
 Drawn By: JLH
 Checked By: RS

SHEET NUMBER

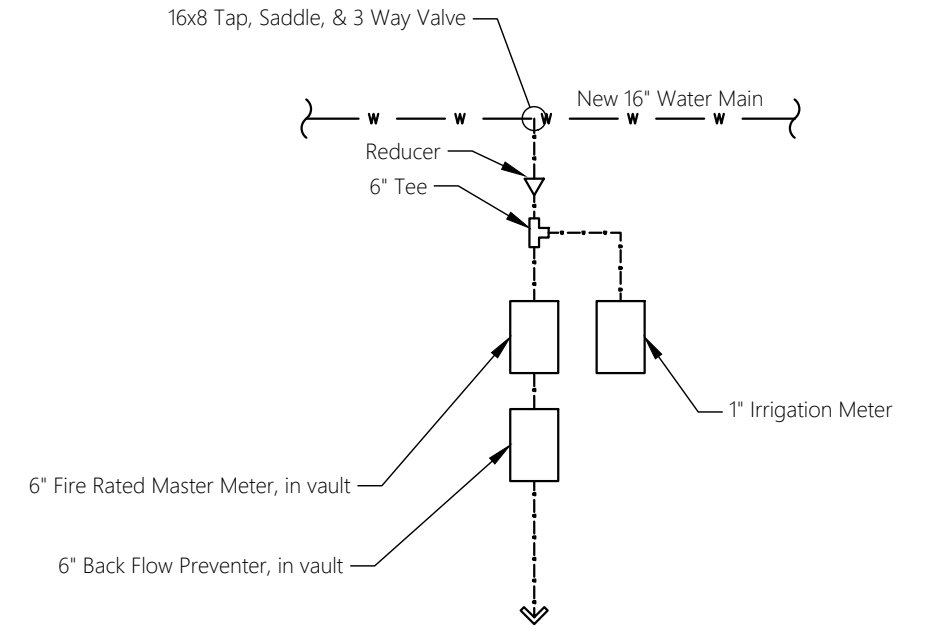
C3



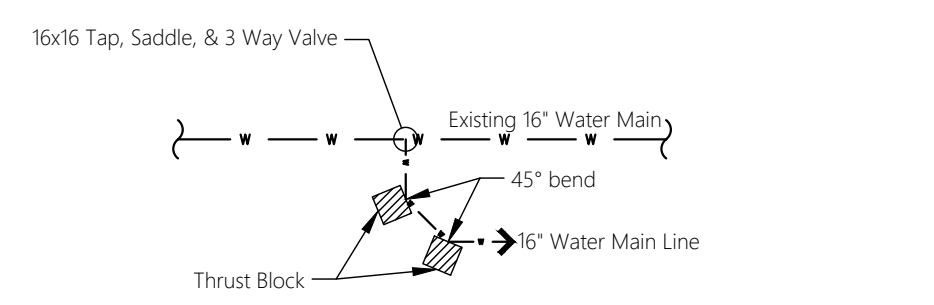
FDC w/ Sign Detail
 NOT to Scale

- Notes:**
- All service lines shall be stubbed & capped within 5' of buildings for plumbing tie-in.
 - Private hydrants shall be silver in color.
 - Connection to existing water main to be provided and installed by Developer.
 - Class 1 combination automatic standpipe shall be required in stairways for 4 story buildings.
 - Elevator/Emergency Knox Boxes required.
 - IFC 2015 510.1 Emergency responder radio coverage in new buildings. All new buildings shall have approved radio coverage for emergency responders within the building based upon the existing coverage levels of the public safety communication systems of the jurisdiction at the exterior of the building. This section shall not require improvement of the existing public safety communication systems.
 - Fire vault valves are required to be electronically tampered.

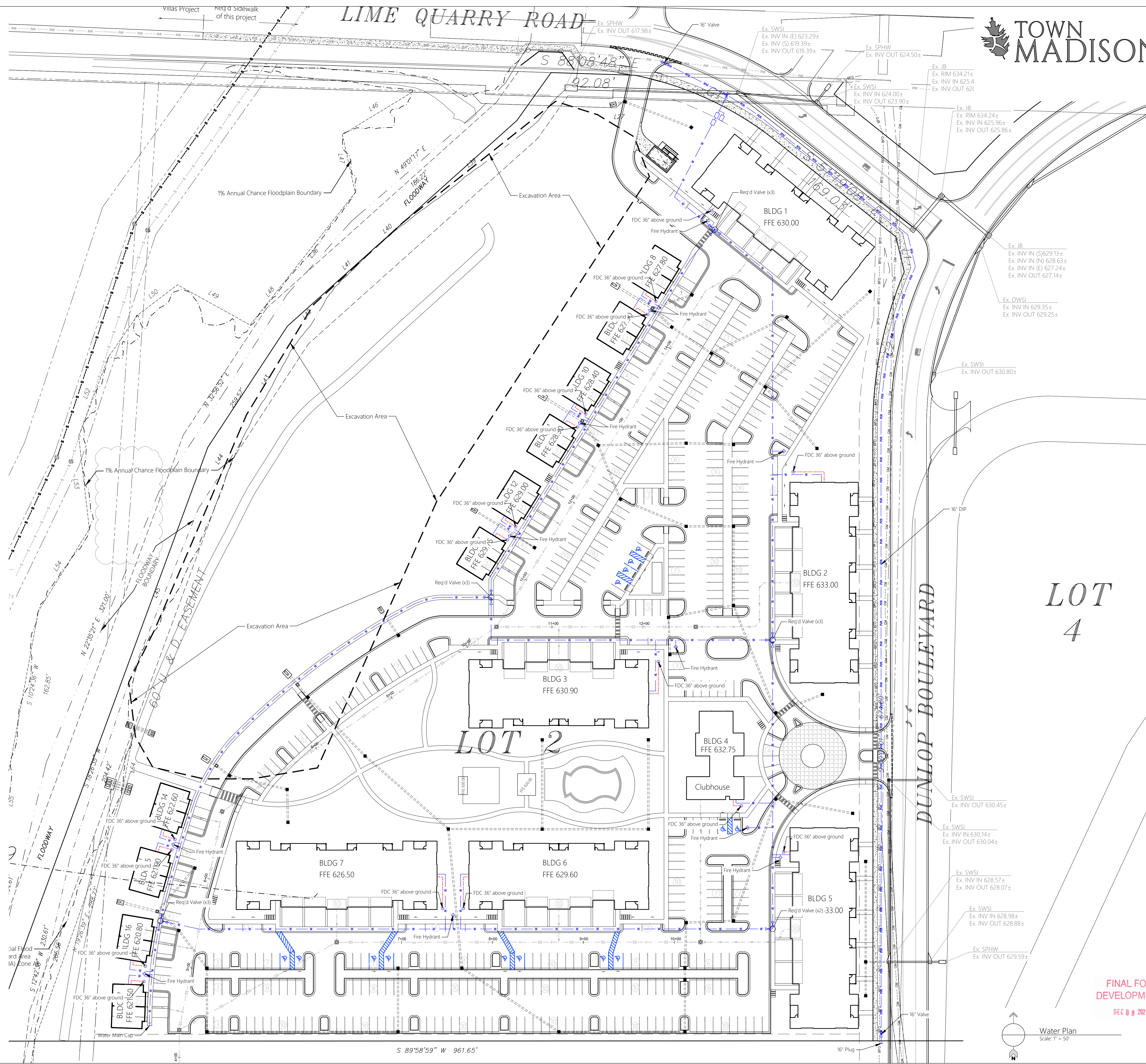
- Water Legend:**
- 8" Domestic Line
 - 2" Domestic Service Line
 - 6" Sprinkler Line



Utility Meter Detail
 NOT to Scale



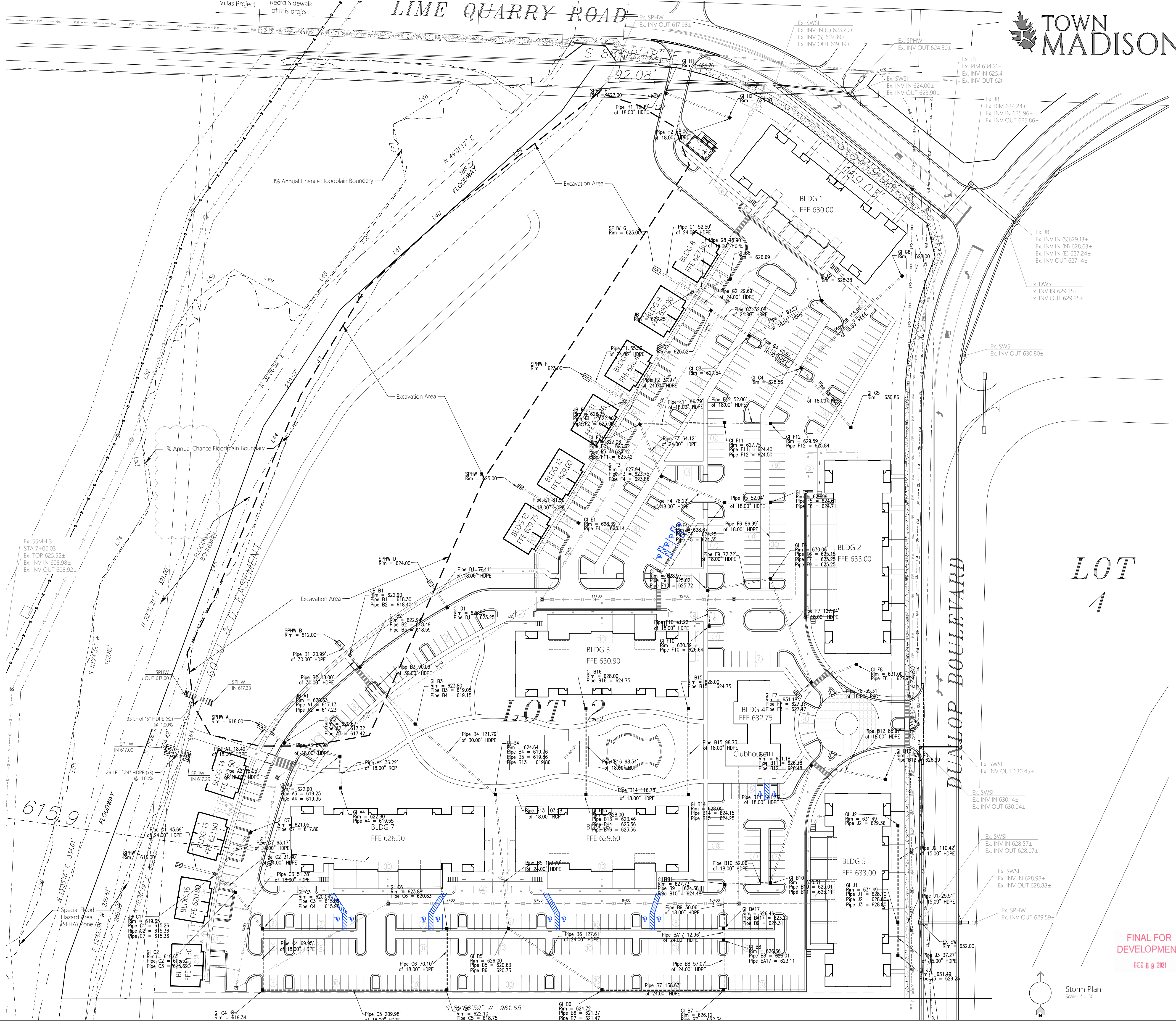
Utility Branch Detail
 NOT to Scale



FINAL FOR DEVELOPMENT
 DEC 9 2021

Water Plan
 Scale: 1" = 50'

LIME QUARRY ROAD



NO.	DATE	DESCRIPTION
1	08/20/21	ISSUED FOR PERMITS
2	09/01/21	REVISED PER COMMENTS
3	09/15/21	REVISED PER COMMENTS
4	09/22/21	REVISED PER COMMENTS
5	10/05/21	REVISED PER COMMENTS
6	10/12/21	REVISED PER COMMENTS
7	10/19/21	REVISED PER COMMENTS
8	10/26/21	REVISED PER COMMENTS
9	11/02/21	REVISED PER COMMENTS
10	11/09/21	REVISED PER COMMENTS
11	11/16/21	REVISED PER COMMENTS
12	11/23/21	REVISED PER COMMENTS
13	11/30/21	REVISED PER COMMENTS
14	12/07/21	REVISED PER COMMENTS
15	12/14/21	REVISED PER COMMENTS
16	12/21/21	REVISED PER COMMENTS
17	12/28/21	REVISED PER COMMENTS
18	01/04/22	REVISED PER COMMENTS
19	01/11/22	REVISED PER COMMENTS
20	01/18/22	REVISED PER COMMENTS
21	01/25/22	REVISED PER COMMENTS
22	02/01/22	REVISED PER COMMENTS
23	02/08/22	REVISED PER COMMENTS
24	02/15/22	REVISED PER COMMENTS
25	02/22/22	REVISED PER COMMENTS
26	02/29/22	REVISED PER COMMENTS
27	03/06/22	REVISED PER COMMENTS
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99	07/23/23	REVISED PER COMMENTS
100	07/30/23	REVISED PER COMMENTS

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LOT 4

LOT 2

The Roberts Apartments at TM
 Madison, AL

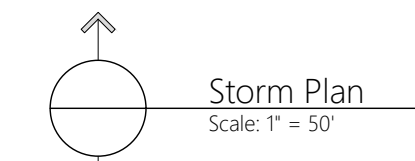
Storm Infrastructure Plan

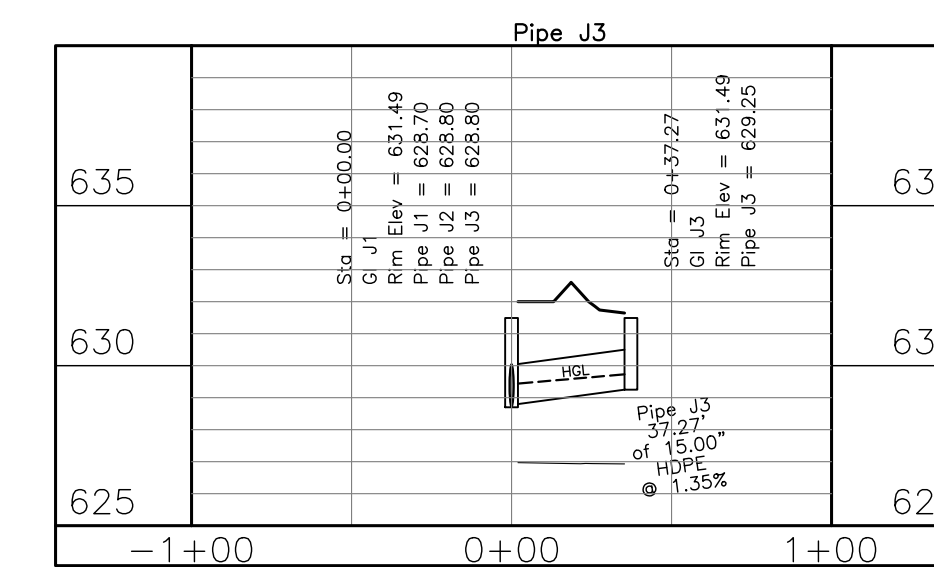
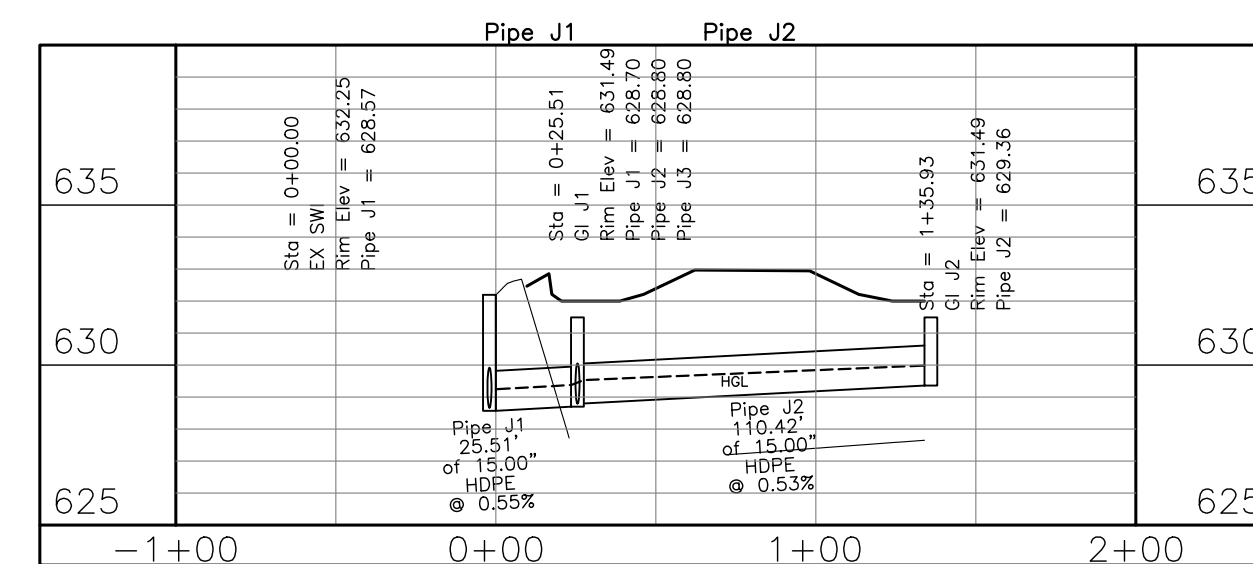
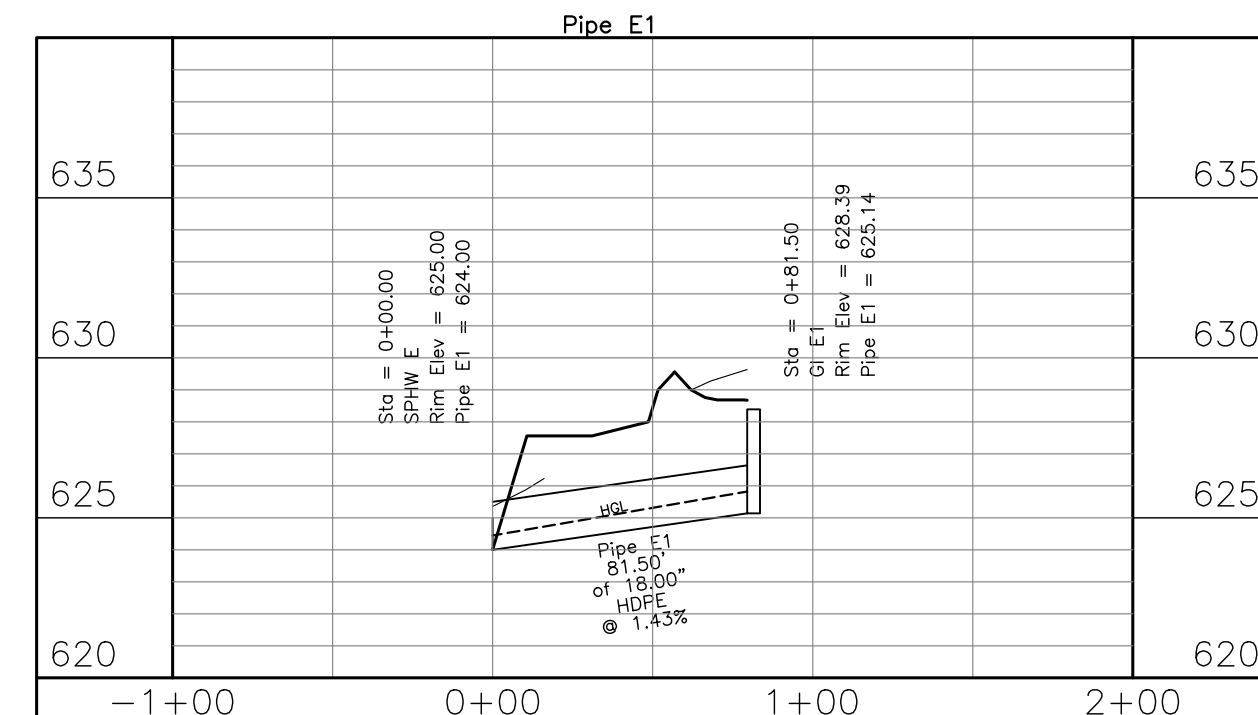
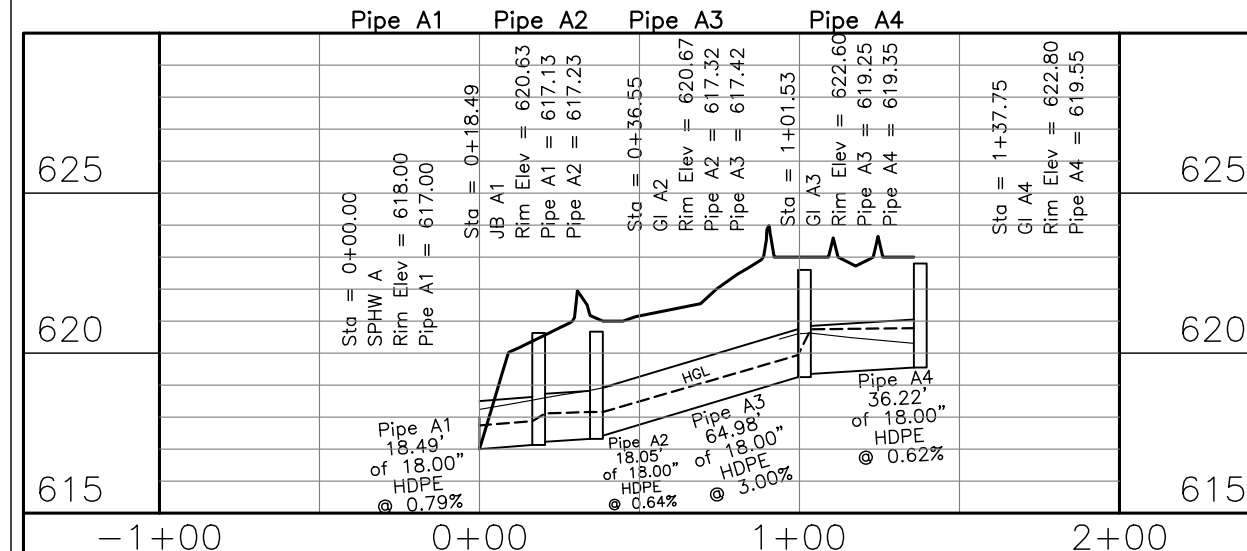
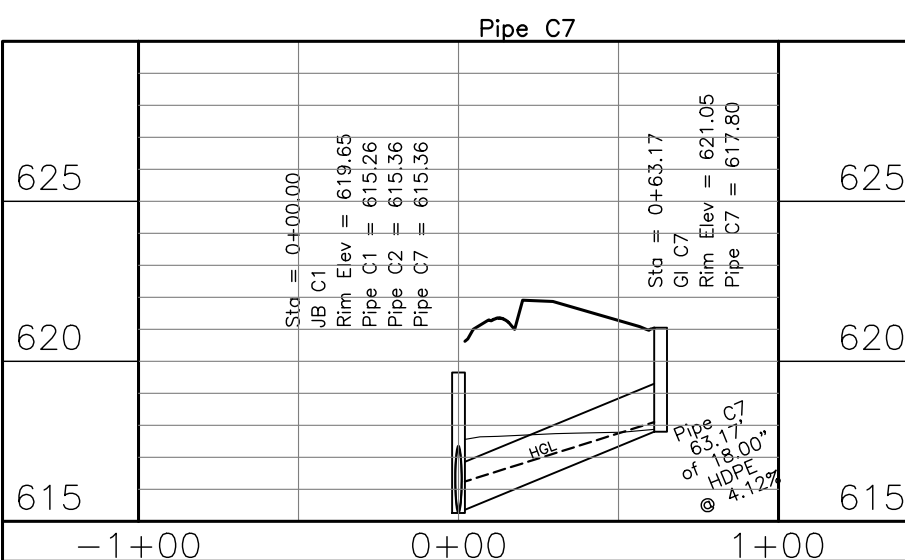
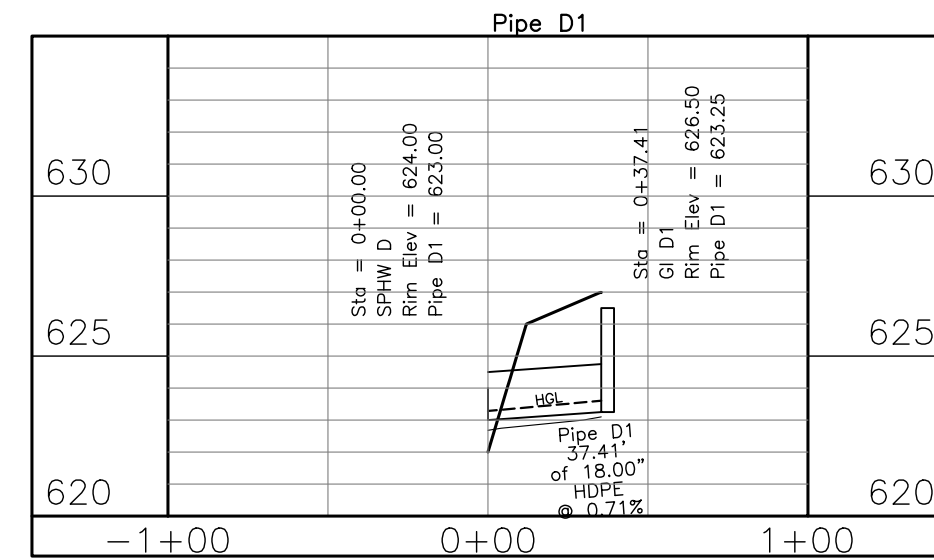
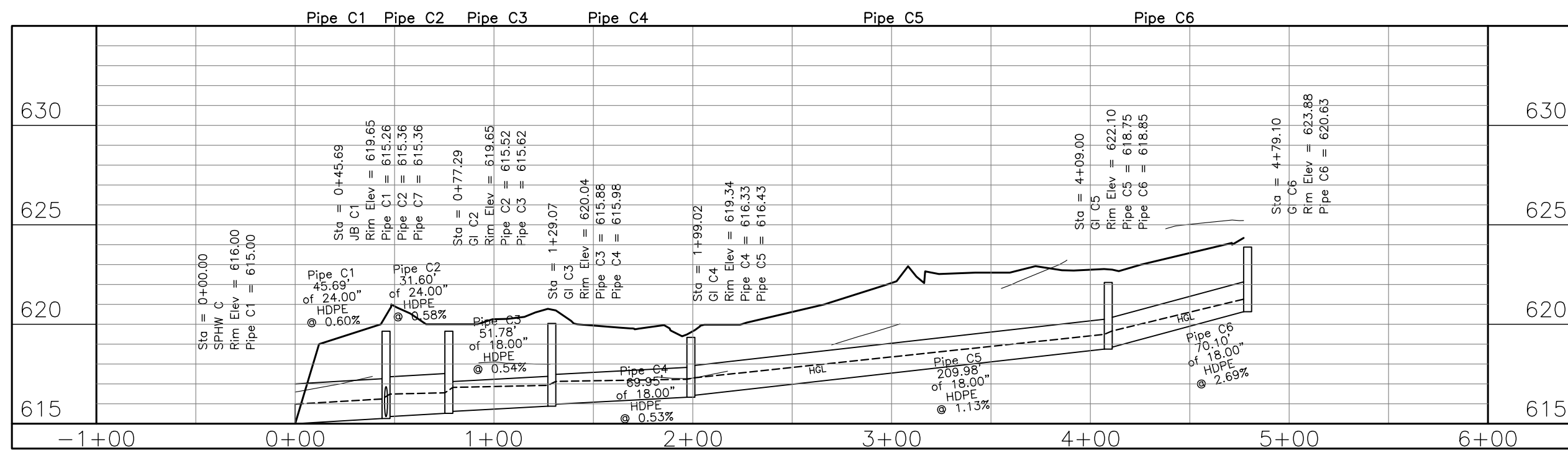
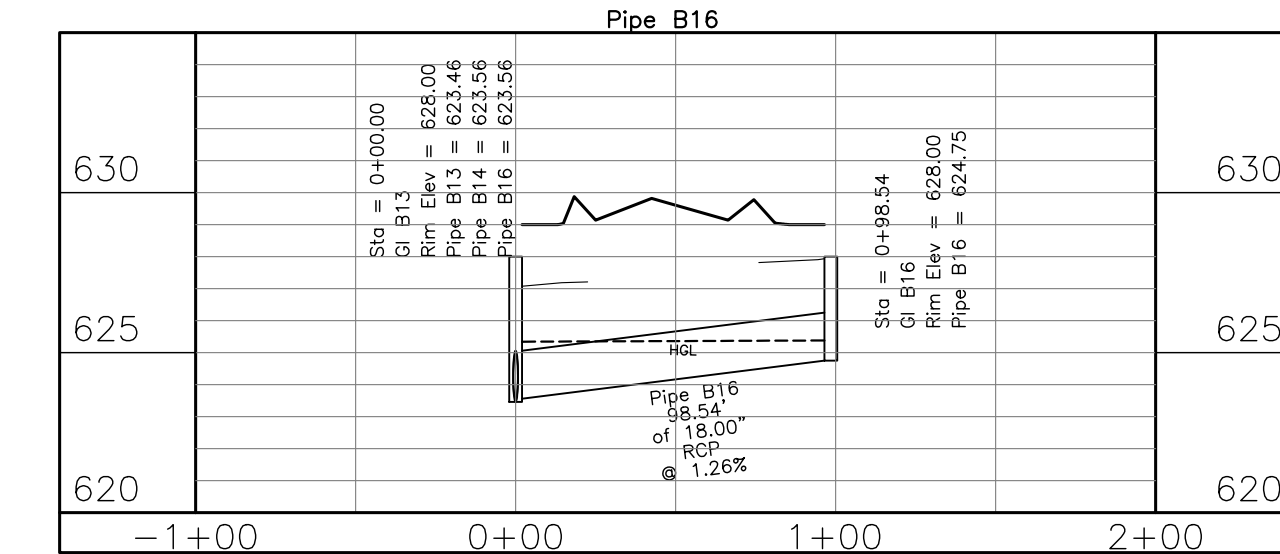
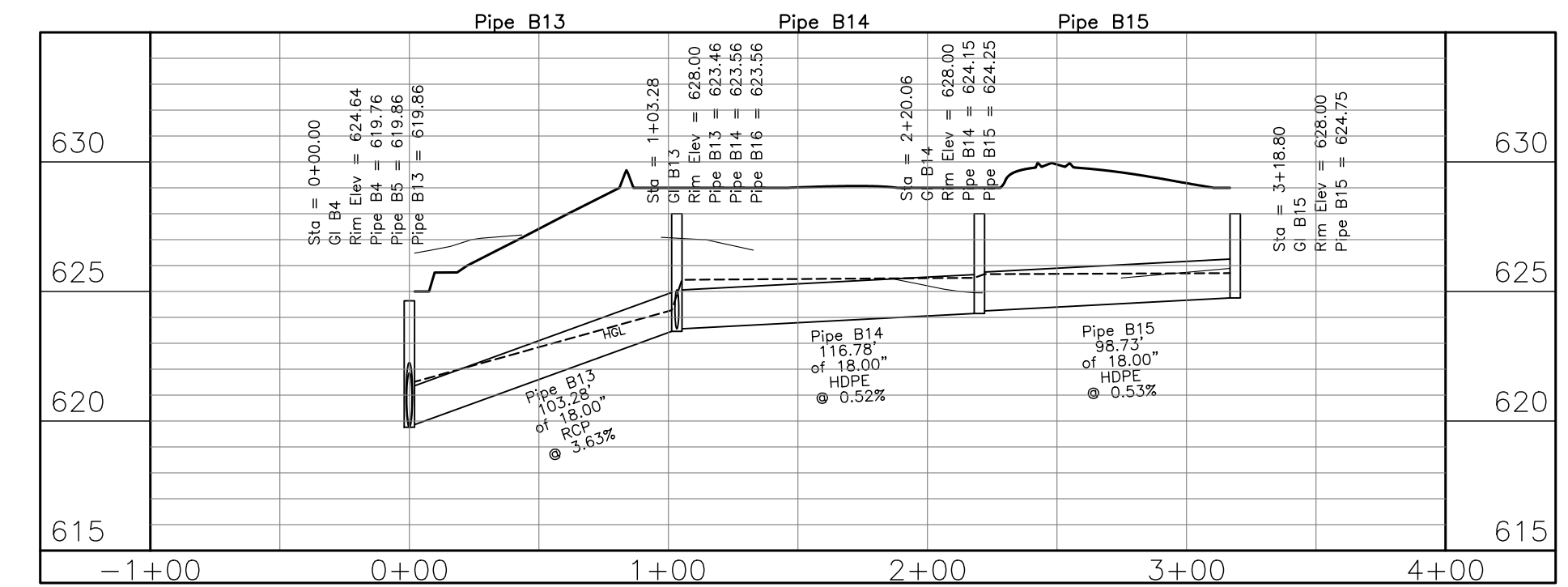
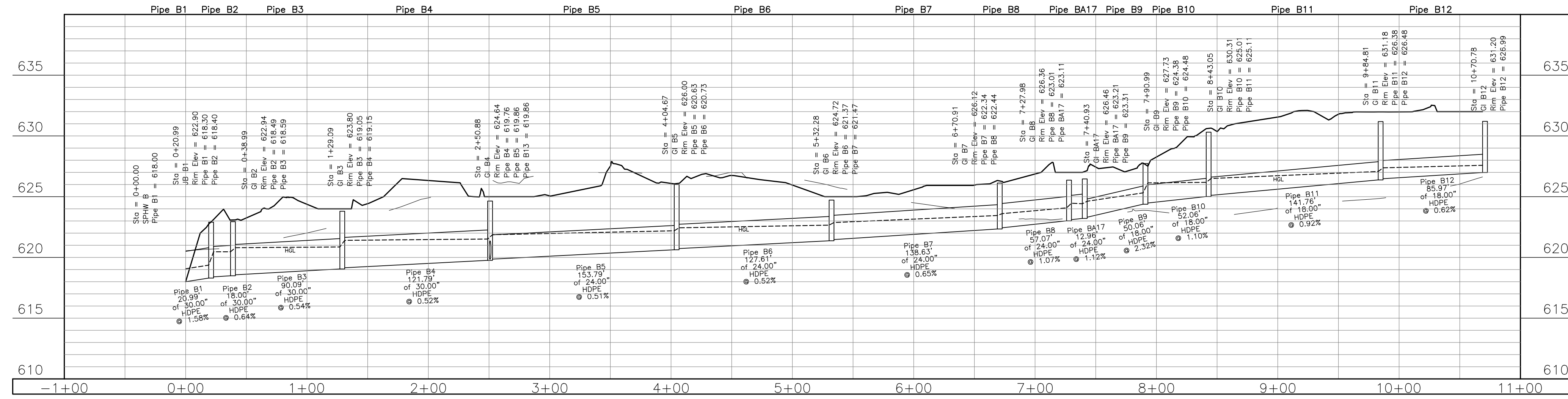
Job No: 21-128
 Date: 2021-11-16
 Drawn By: JLH
 Checked By: RS

SHEET NUMBER

C4.1

FINAL FOR DEVELOPMENT
DEC 8 2021

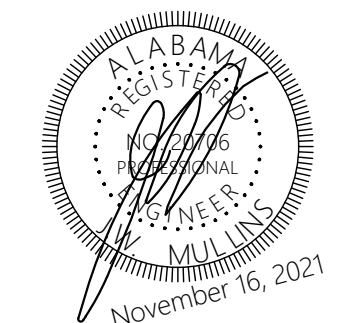




REVISIONS

Date	Description

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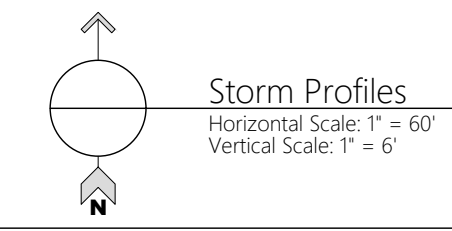
The Roberts Apartments at TM
 Madison, AL

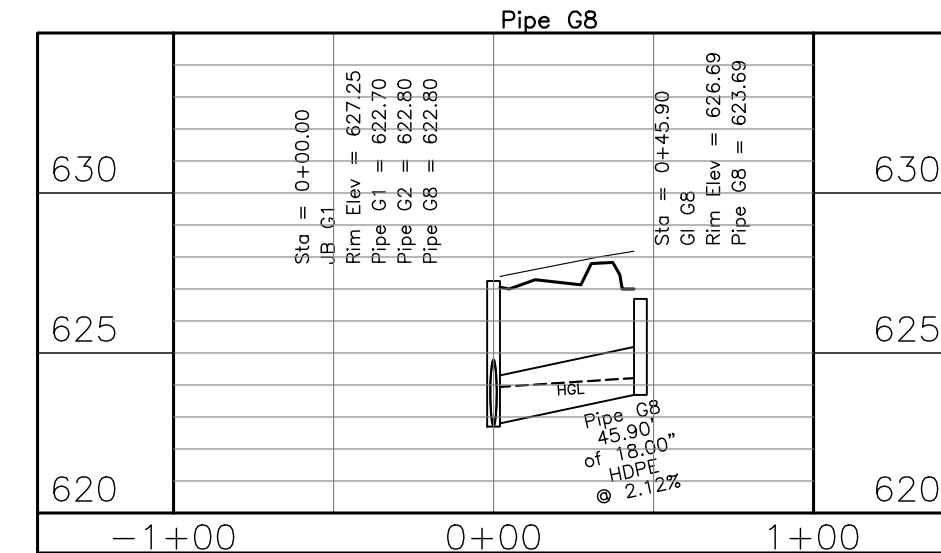
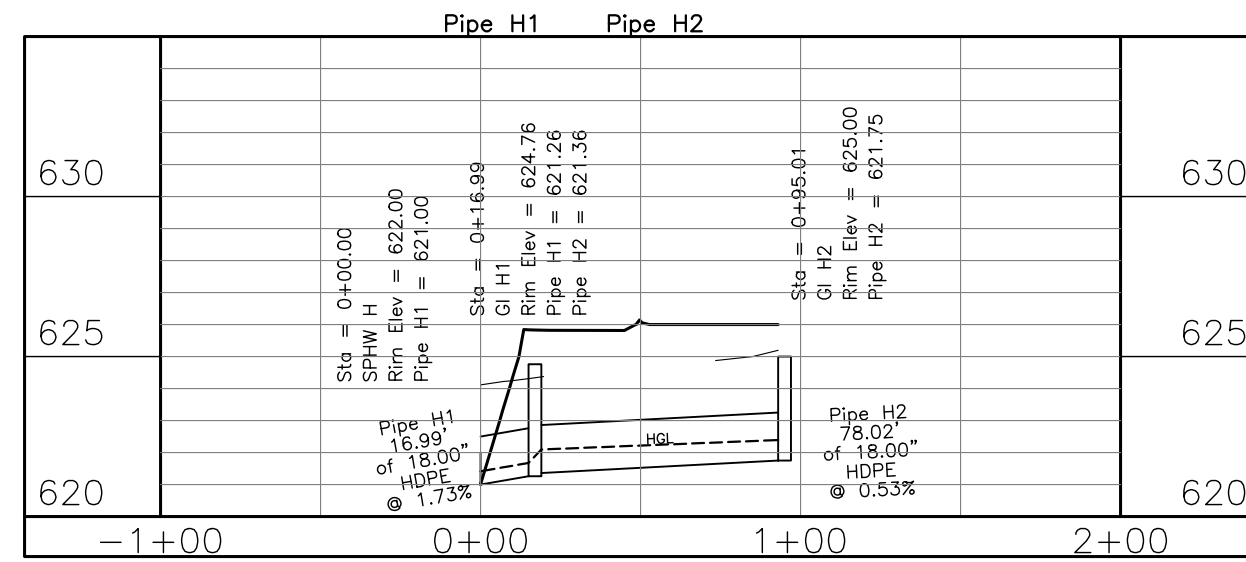
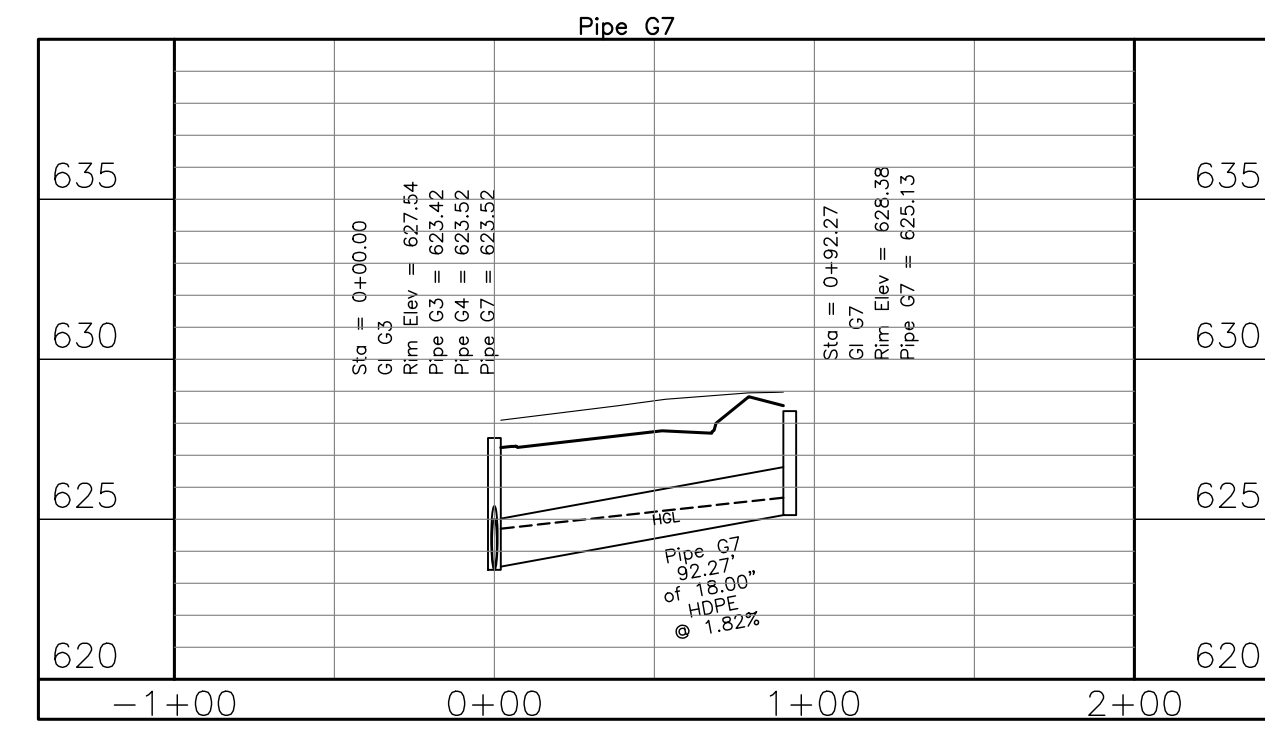
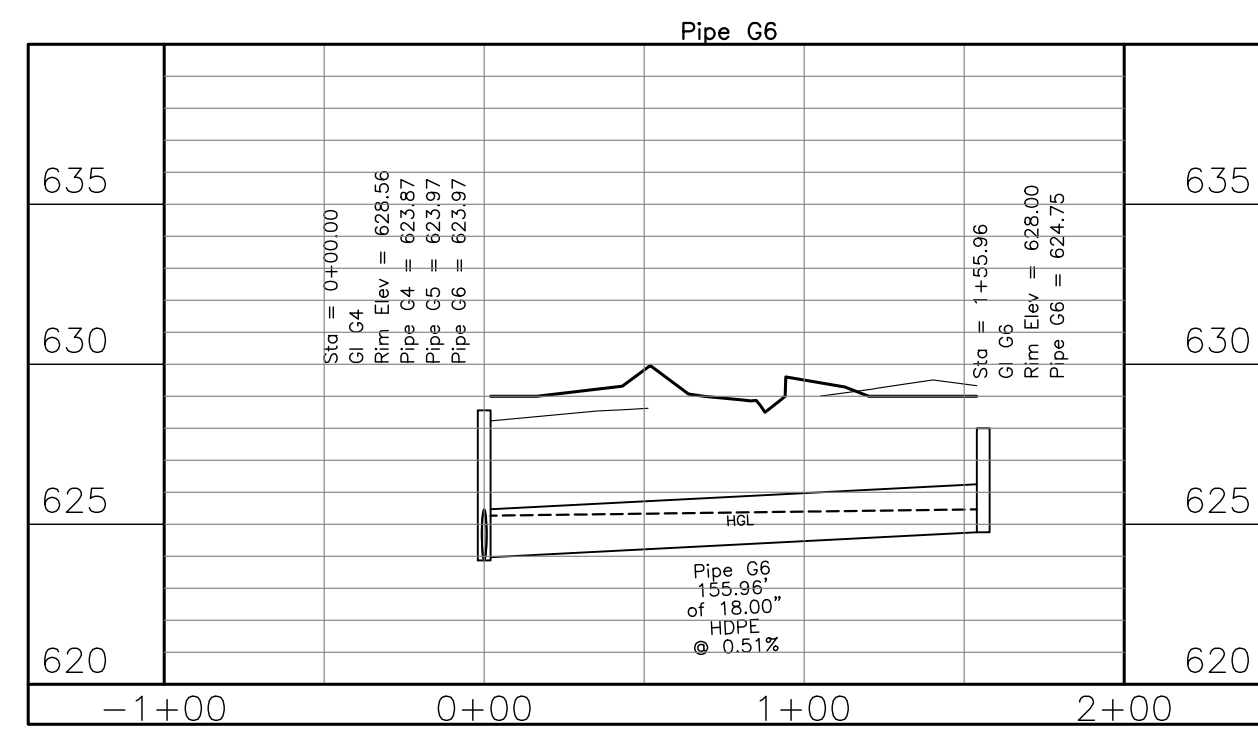
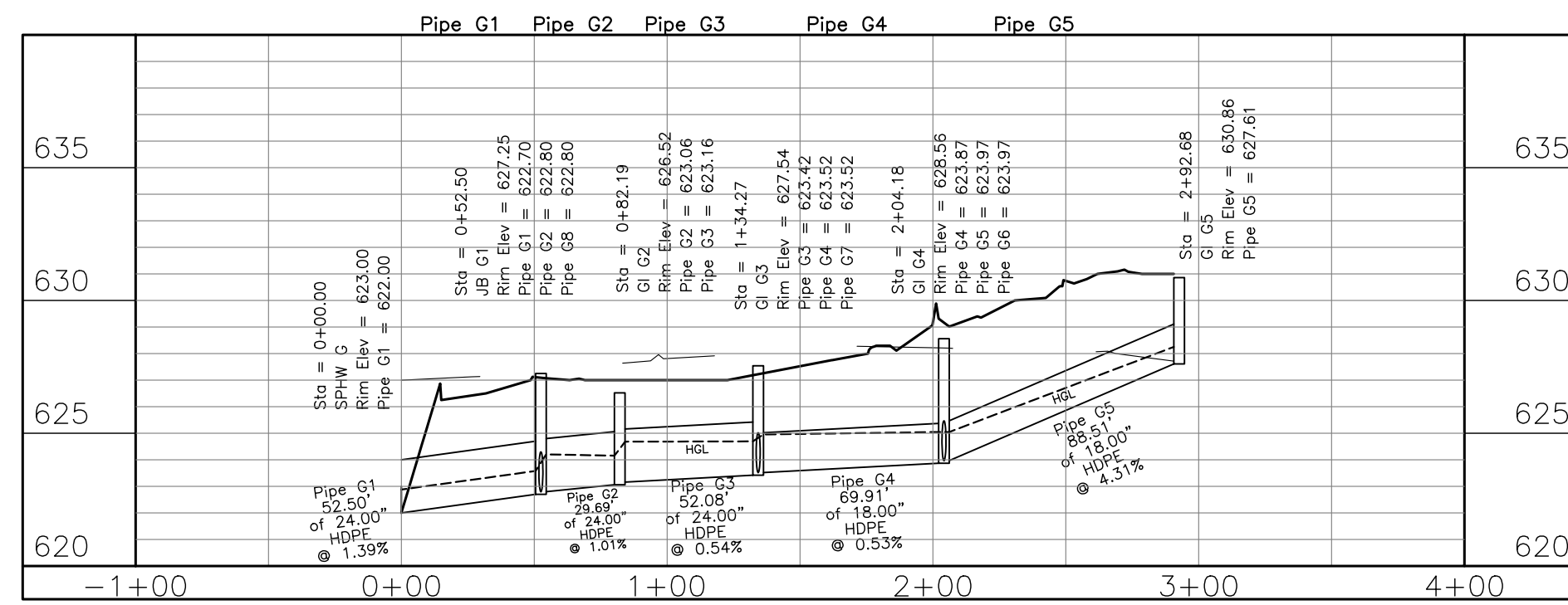
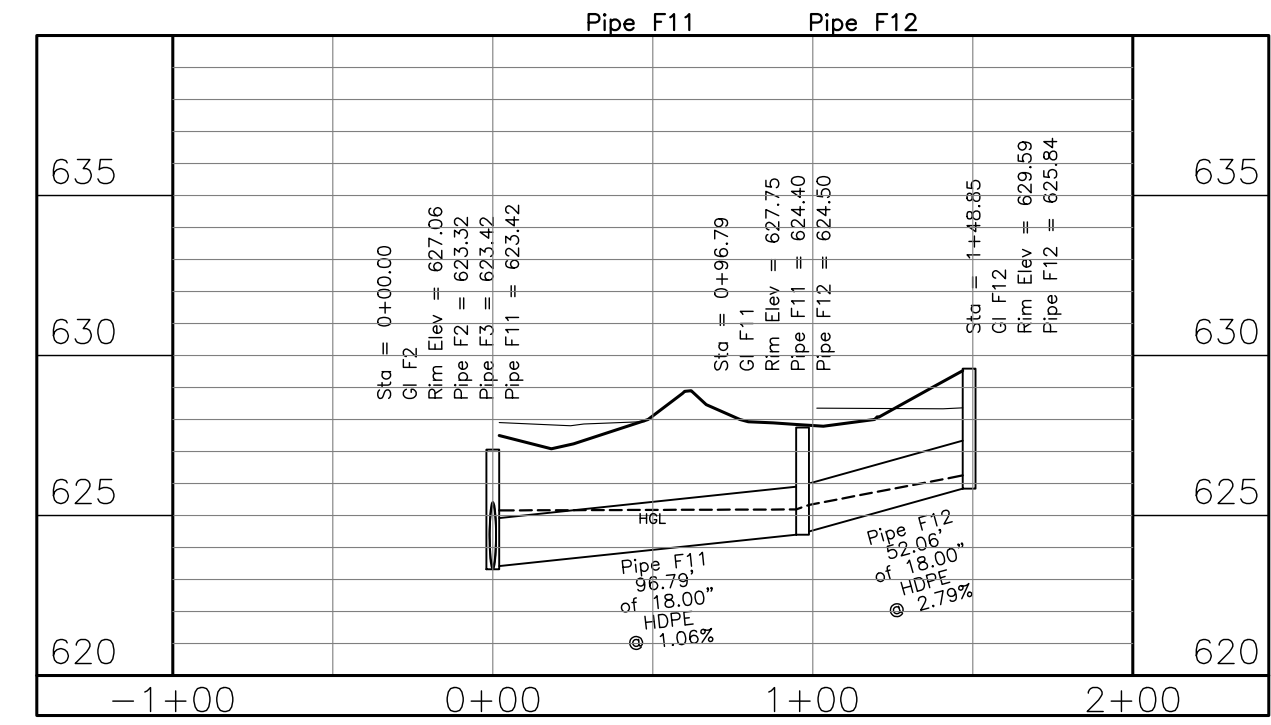
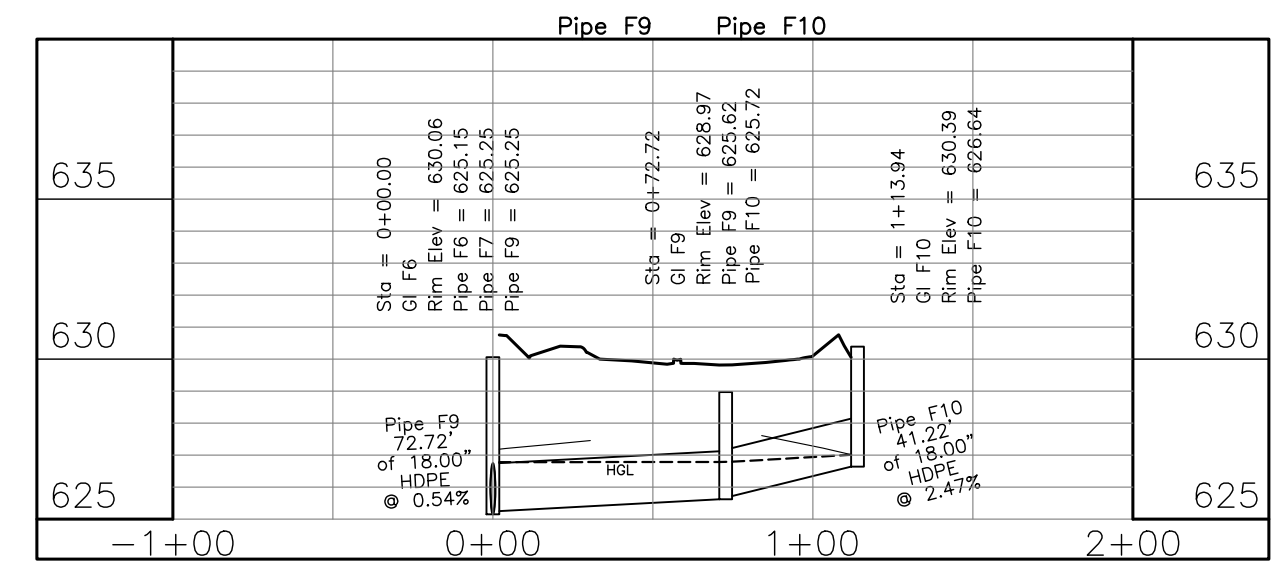
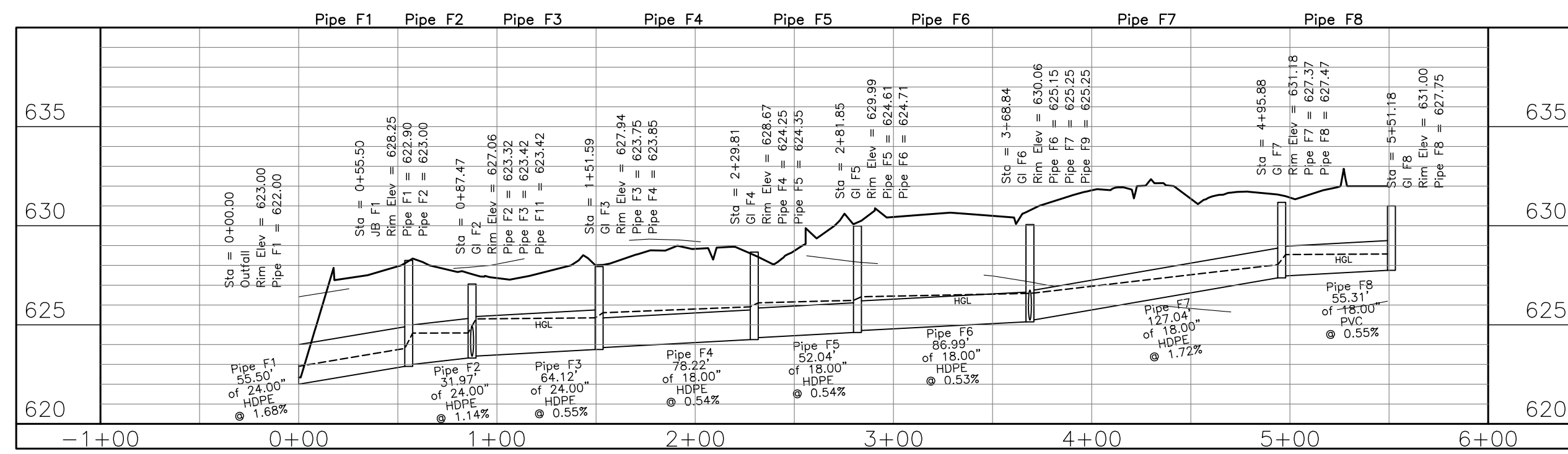
FINAL FOR
 DEVELOPMENT
 DEC 8 2021

Storm Infrastructure
 Profiles

Job No. 21-128
 Date: 2021-11-16
 Drawn By: JIH
 Checked By: RS

SHEET NUMBER
C4.2





REVISIONS

Date	---
Date	---
Date	---
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Date	---

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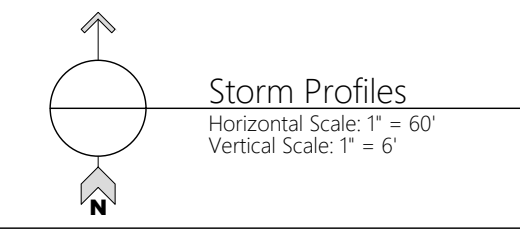


The Roberts Apartments at TM
 Madison, AL
 PREPARED FOR: ---

FINAL FOR
 DEVELOPMENT
 DEC 9 2021

Storm Infrastructure
 Profiles
 Job No. 21-128
 Date: 2021 11-16
 Drawn By: JLH
 Checked By: RS

SHEET NUMBER
C4.3



N 83°24'19" E
219.34'

LIME QUARRY ROAD

DUNLOP BOULEVARD

LOT 1

LOT 2

LOT 4

part of Villas Project
Req'd Sidewalk of this project

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The Roberts Apartments at TM
Madison, AL

Sanitary Sewer Infrastructure Plan

Job No: 21-128
Date: 2021 11-16
Drawn By: JLH
Checked By: RS

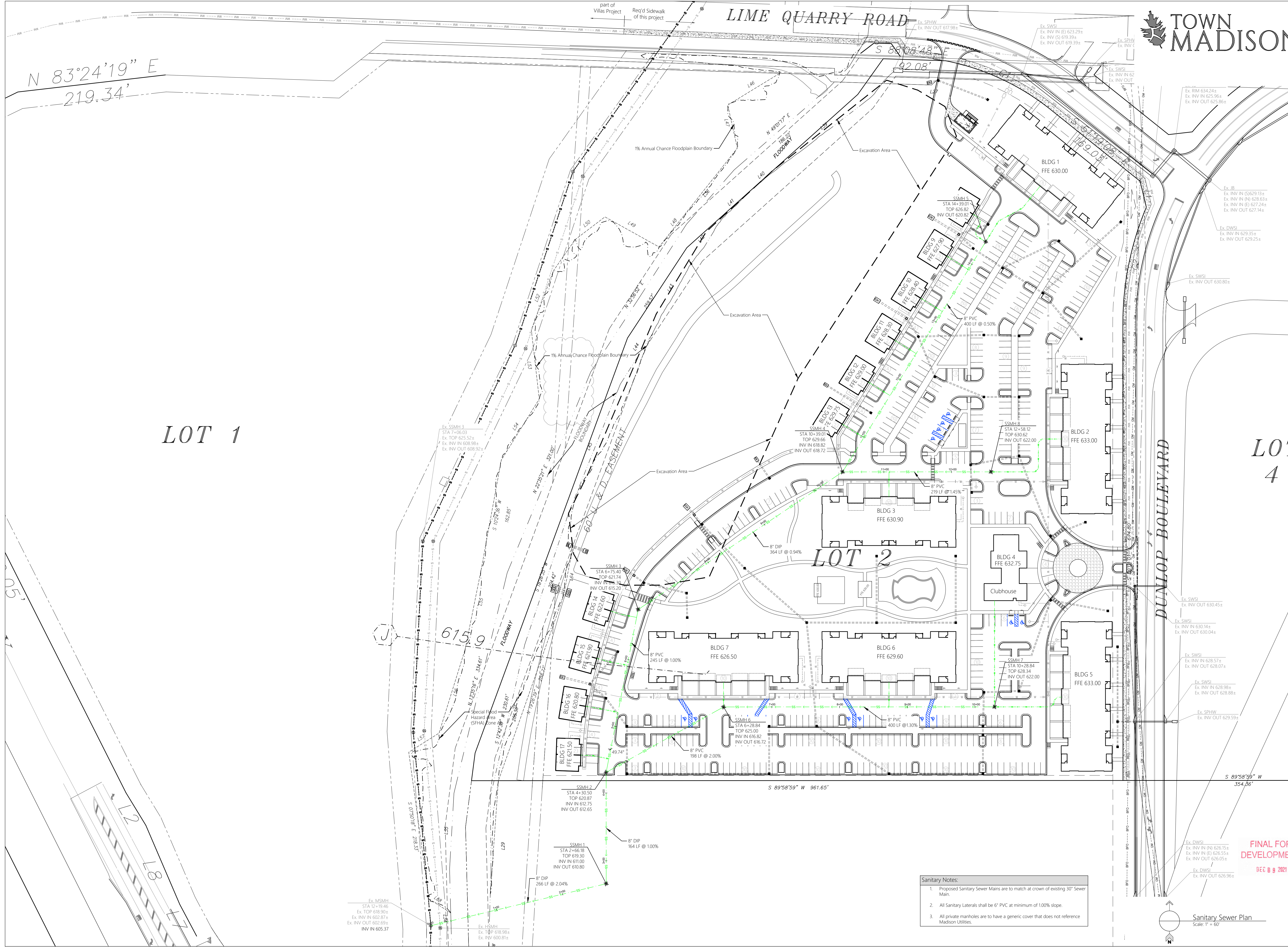
SHEET NUMBER

C5

- Sanitary Notes:**
- Proposed Sanitary Sewer Mains are to match at crown of existing 30" Sewer Main.
 - All Sanitary Laterals shall be 6" PVC at minimum of 1.00% slope.
 - All private manholes are to have a generic cover that does not reference Madison Utilities.

Sanitary Sewer Plan
Scale: 1" = 60'

FINAL FOR DEVELOPMENT
DEC 9 2021



PREPARED FOR:

Ex. MSHM
STA 12+19.46
Ex. TOP 618.90±
Ex. INV IN 610.87±
Ex. INV OUT 610.89±
INV IN 605.37

Ex. HSMH
Ex. TOP 618.96±
Ex. INV 610.81±

Ex. SWSI
Ex. INV OUT 630.45±

Ex. SWSI
Ex. INV IN 630.14±
Ex. INV OUT 630.04±

Ex. SWSI
Ex. INV IN 628.57±
Ex. INV OUT 628.07±

Ex. SWSI
Ex. INV IN 628.98±
Ex. INV OUT 628.88±

Ex. SPSHW
Ex. INV OUT 629.59±

Ex. DWSI
Ex. INV IN 626.15±
Ex. INV IN 626.55±
Ex. INV OUT 626.05±

Ex. DWSI
Ex. INV OUT 626.96±

Ex. RIM 634.24±
Ex. INV IN 625.96±
Ex. INV OUT 615.86±

Ex. IR
Ex. INV IN 629.13±
Ex. INV IN 628.63±
Ex. INV IN 627.24±
Ex. INV OUT 627.14±

Ex. DWSI
Ex. INV IN 629.35±
Ex. INV OUT 629.25±

Ex. SWSI
Ex. INV OUT 630.80±

Ex. SWSI
Ex. INV OUT 630.45±

Ex. SWSI
Ex. INV IN 630.14±
Ex. INV OUT 630.04±

Ex. SWSI
Ex. INV IN 628.57±
Ex. INV OUT 628.07±

Ex. SWSI
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Ex. INV OUT 630.04±

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Ex. SWSI
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Ex. SPSHW
Ex. INV OUT 629.59±

Ex. DWSI
Ex. INV IN 626.15±
Ex. INV IN 626.55±
Ex. INV OUT 626.05±

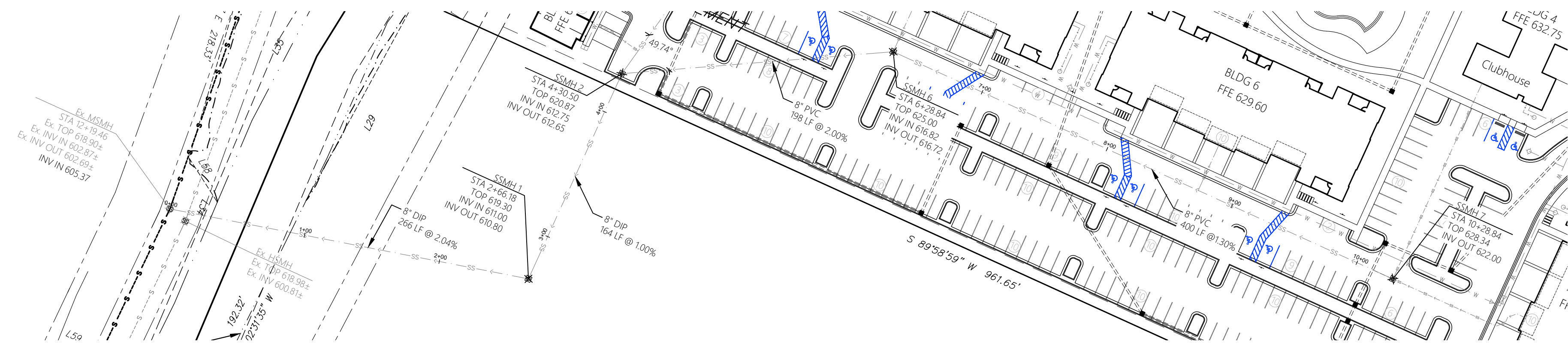
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Ex. INV OUT 626.96±

Ex. RIM 634.24±
Ex. INV IN 625.96±
Ex. INV OUT 615.86±

Ex. IR
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Ex. INV IN 628.63±
Ex. INV IN 627.24±
Ex. INV OUT 627.14±

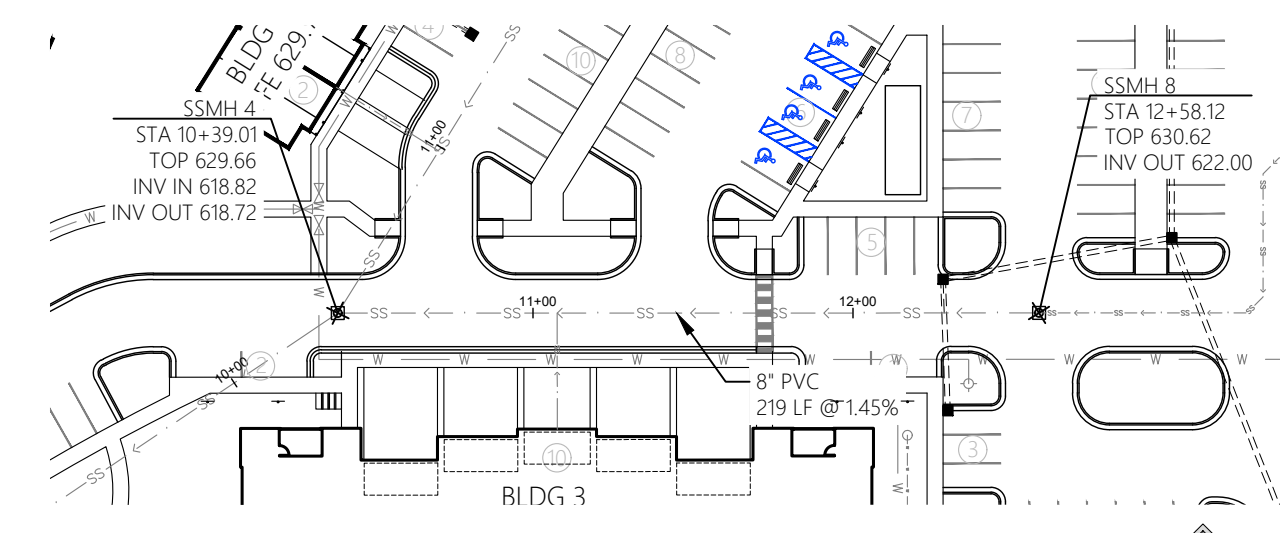
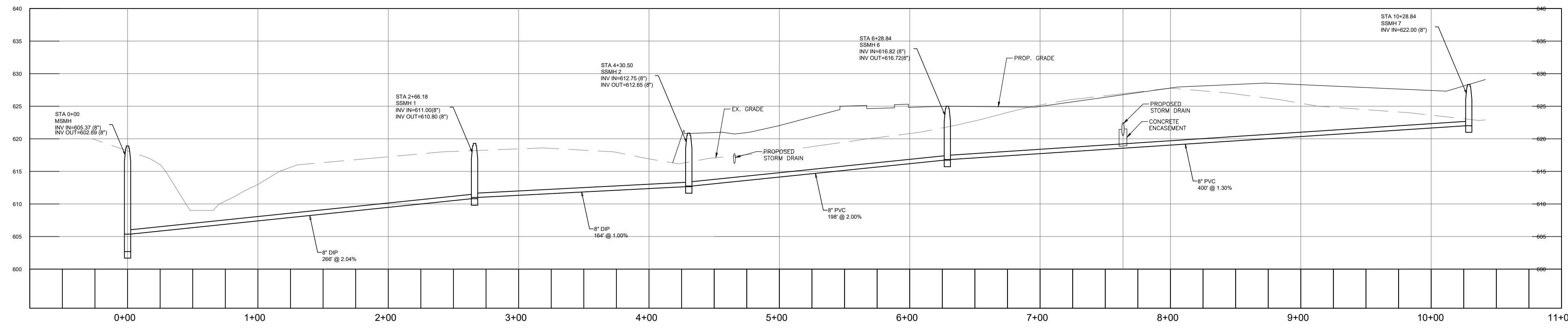
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Ex. INV IN 629.35±
Ex. INV OUT 629.25±

Ex. SWSI
Ex. INV OUT 630.80±



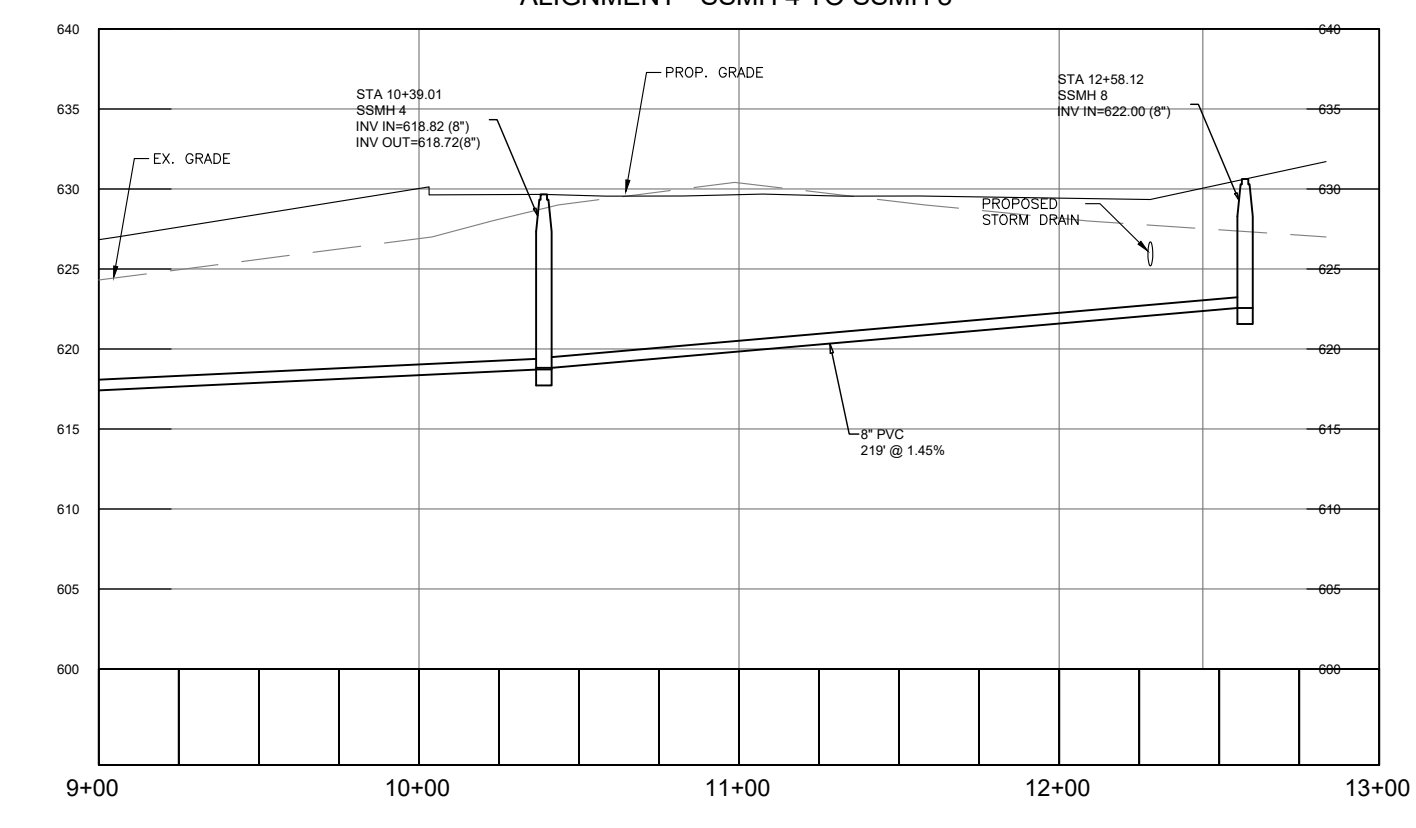
Sanitary Sewer Plan & Profile
Horizontal Scale: 1" = 60'
Vertical Scale: 1" = 12'

ALIGNMENT - Ex. MSMH TO SSMH 7



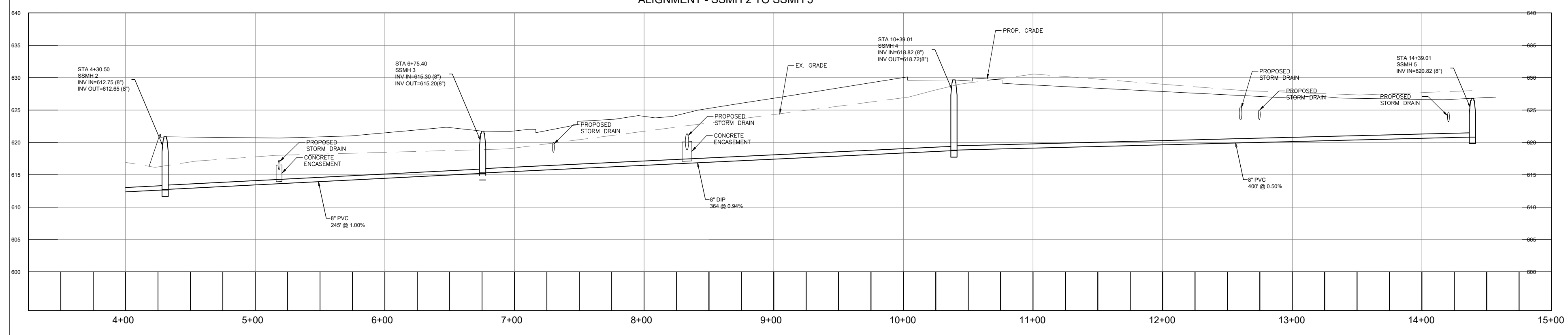
Sanitary Sewer Plan & Profile
Horizontal Scale: 1" = 60'
Vertical Scale: 1" = 12'

ALIGNMENT - SSMH 4 TO SSMH 8



Sanitary Sewer Plan & Profile
Horizontal Scale: 1" = 60'
Vertical Scale: 1" = 12'

ALIGNMENT - SSMH 2 TO SSMH 5



REVISIONS

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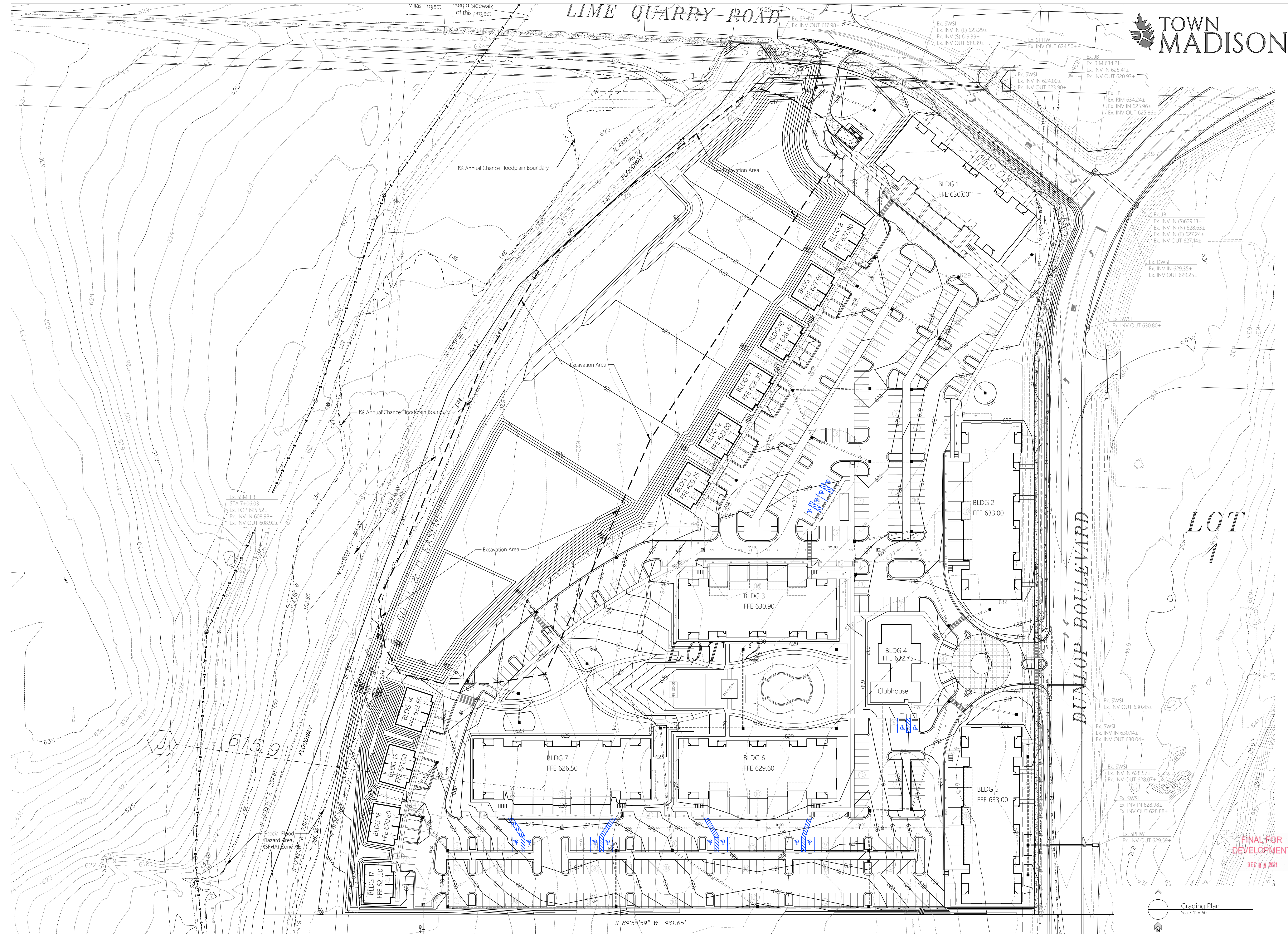
The Roberts Apartments at TM
Madison, AL
PREPARED FOR:

Sanitary Sewer
Plan & Profile

Job No. 21-128
Date: 2021 11-16
Drawn By: JLH
Checked By: RS

SHEET NUMBER
C5.1

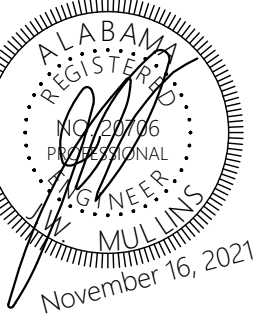
FINAL FOR
DEVELOPMENT
DEC 9 2021



REVISIONS	
Date	Description

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 SURVEYING, LANDSCAPE ARCHITECTURE
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 (256) 690-5312



The Roberts Apartments at TM
 Madison, AL

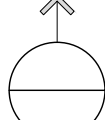
Overall Grading Plan

Job No: 21-128
 Date: 2021 11-16
 Drawn By: JLH
 Checked By: RS

SHEET NUMBER

C6

FINAL FOR
 DEVELOPMENT
 DEC 18 2021

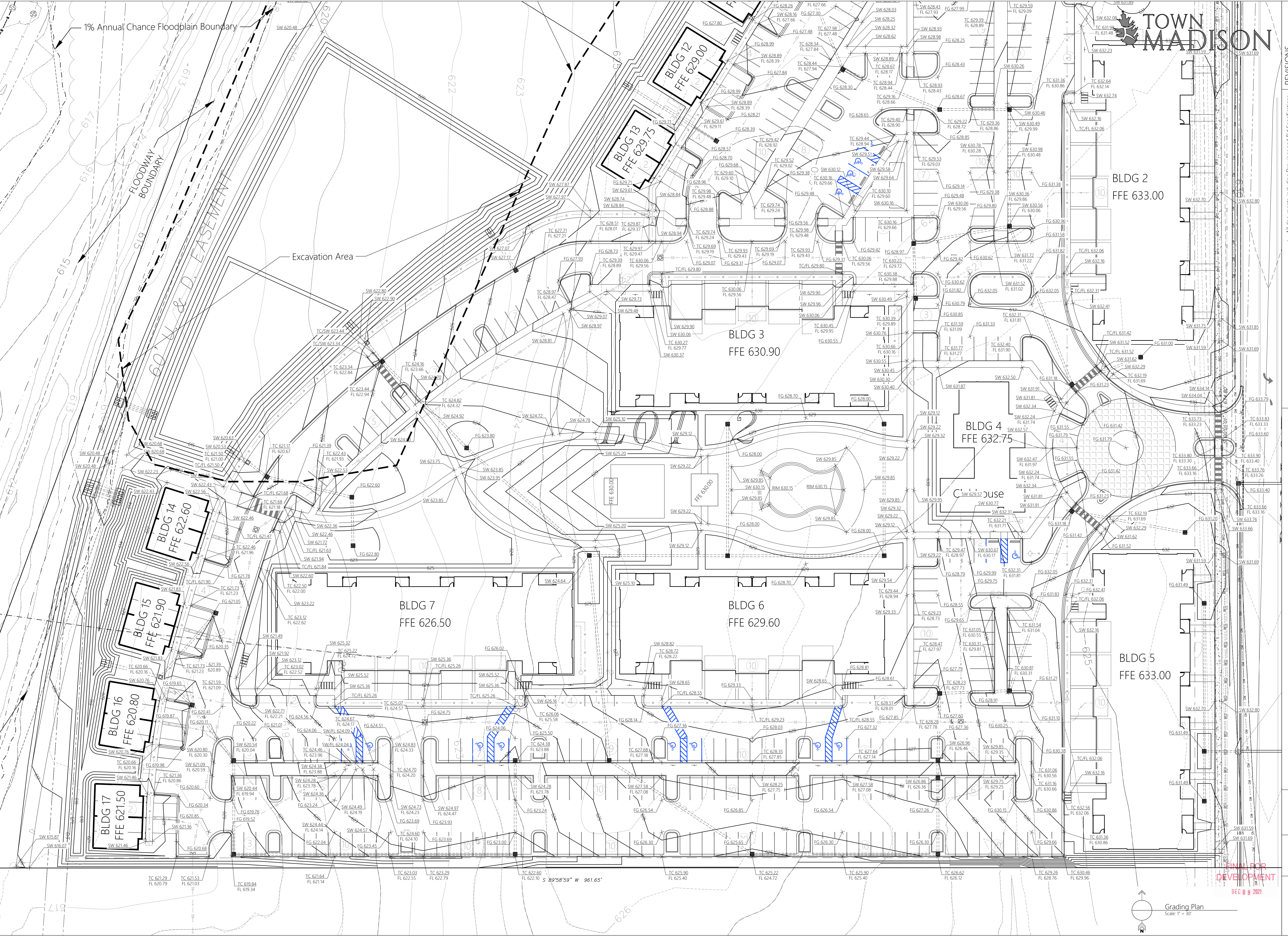
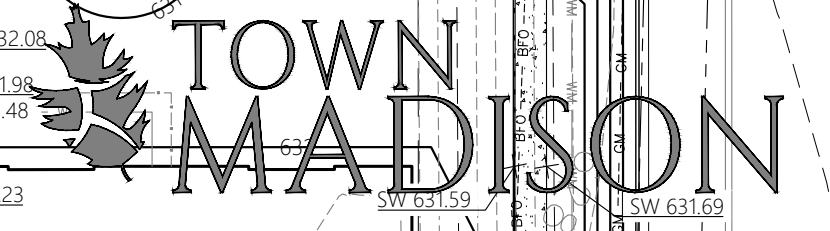


Grading Plan
 Scale: 1" = 50'

1% Annual Chance Floodplain Boundary

60' X & D EASEMENT
FLOODWAY BOUNDARY

Excavation Area



REVISIONS

Date	Description

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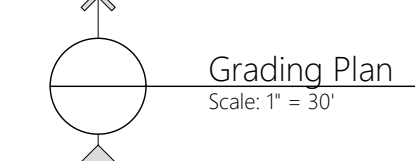
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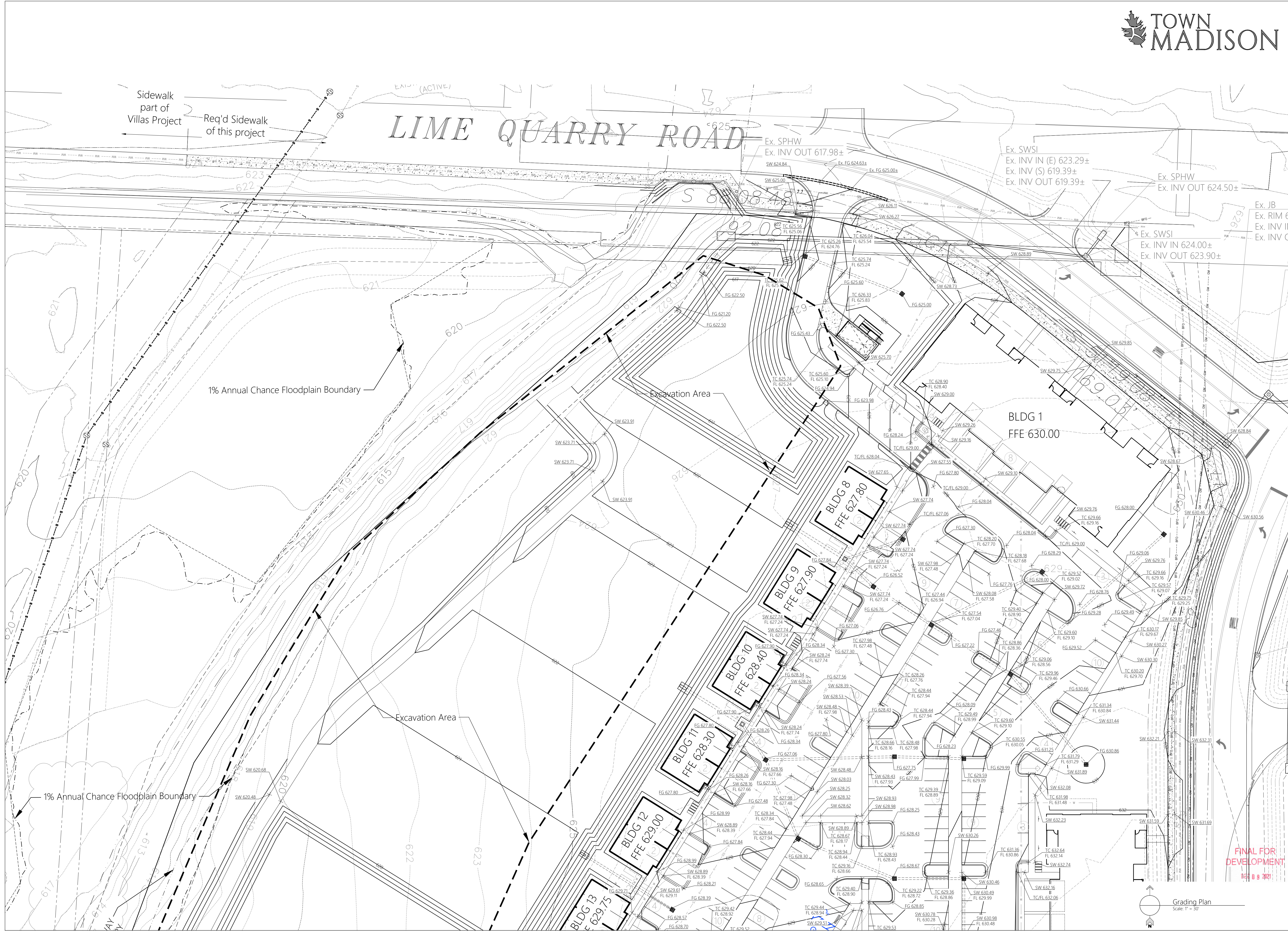
The Roberts Apartments at TM
 Madison, AL

Grading Plan
 Job No: 21-128
 Date: 2021-11-16
 Drawn By: JLH
 Checked By: RS

SHEET NUMBER
C6.1



FINAL FOR DEVELOPMENT
 DEC 9 2021



REVISIONS

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The Roberts Apartments at TM
 Madison, AL
 PREPARED FOR: ---

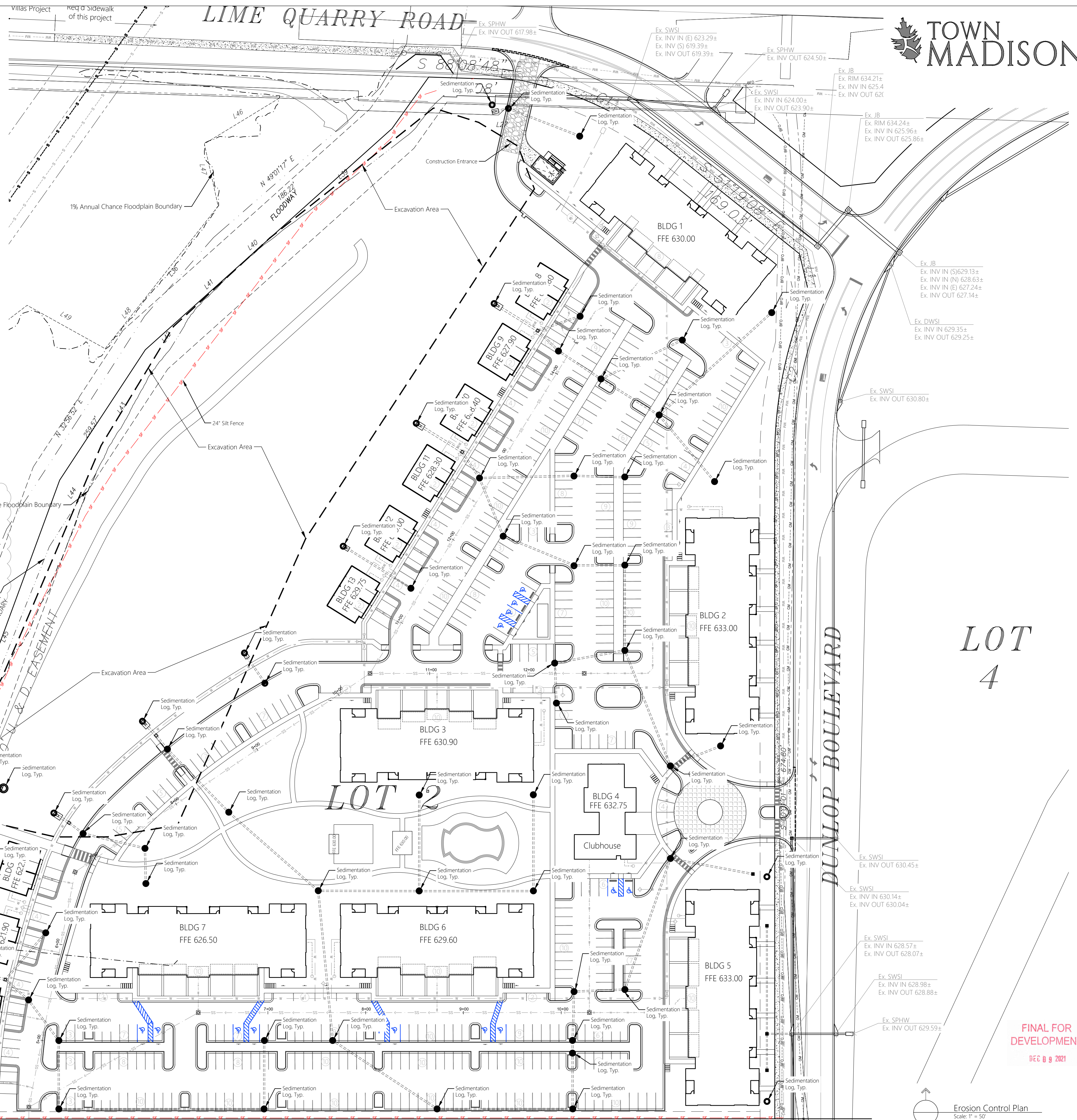
Grading Plan
 Job No: 21-128
 Date: 2021 11-16
 Drawn By: JLH
 Checked By: RS

SHEET NUMBER
C6.2

FINAL FOR DEVELOPMENT
 05 09 2021

Grading Plan
 Scale: 1" = 30'

LIME QUARRY ROAD



Erosion Control Phasing:
 THIS CONSTRUCTION SEQUENCE IS BASED ON THE ENGINEER'S OPINION AND NOT INTENDED TO BE A COMPREHENSIVE LIST OF EVENTS. THE CONTRACTOR SHOULD USE HIS/HER DISCRETION TO DETERMINE THE BEST SEQUENCE OF CONSTRUCTION. IN ADDITION, ALL EROSION AND SEDIMENTATION CONTROL MEASURES MUST BE INSTALLED PRIOR TO SELECT WORK ITEMS OR AT THE POINT OF COMPLETION OF EACH WORK ITEM. DEPENDING ON THE NATURE OF THE ITEM, EXAMPLES: SEDIMENT CONTROL PRIOR TO GRADING AND INLET PROTECTION UPON COMPLETION OF INLET CONSTRUCTION.

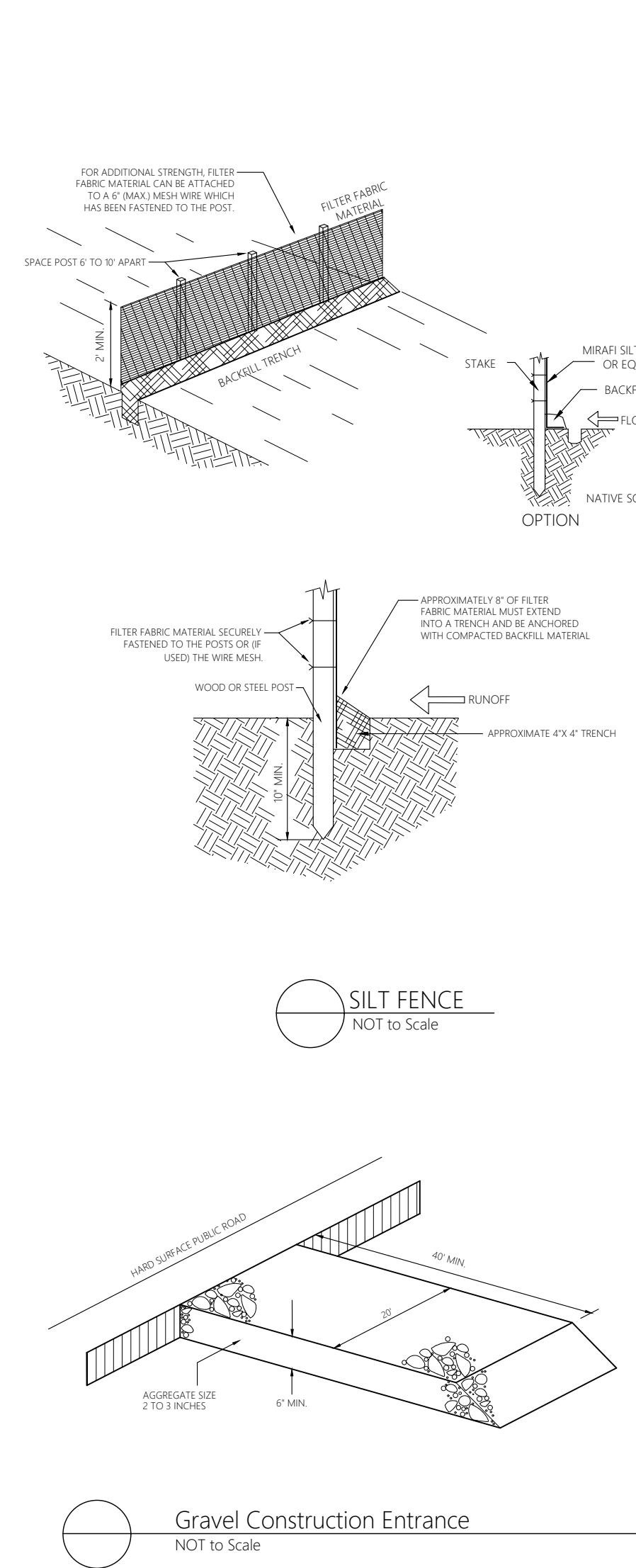
PHASE 1 - PRE CONSTRUCTION
 1. INSTALL SILT FENCE AND CONSTRUCTION ENTRANCE AS SHOWN AND OTHER AREAS TO PREVENT SEDIMENT FROM BEING WASHED ON TO ADJACENT PROPERTY.

PHASE 2 - DEMOLITION, SITE PREPARATION AND GRADING
 1. PROTECT EXISTING VEGETATION BUFFER ALONG EXISTING PROPERTY BOUNDARY.
 2. INSTALL SILT FENCE AS SHOWN AND OTHER AREAS TO PREVENT SEDIMENT FROM BEING WASHED FROM THE SITE.
 3. INSTALL WATTLE CHECK DAMS IN DITCHES & CONCENTRATED DRAINAGE WAYS TO PREVENT SEDIMENT FROM BEING WASHED DOWNSTREAM.
 4. PERFORM SITE PREPARATION, DEMOLITION, AND CLEAR AND GRUB THE SITE.
 5. INSTALL UTILITIES AND UNDERGROUND-RELATED IMPROVEMENTS.
 6. GRADING ACCORDING TO THE GRADING PLAN; INSTALL FILTER AT DRAINAGE FLUMES AND LEAVE EXISTING DRAINAGE WAYS IN PLACE.

PHASE 3
 1. BEGIN FOUNDATION CONSTRUCTION AND OTHER BUILDING PREPARATIONS.
 2. MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES, SUCH THAT THEY ARE PERFORMING THEIR FUNCTION PROPERLY, CLEAN OUT, SEDIMENT BUILD-UP WHEN FACILITIES REACH 50% CAPACITY. MAKE SURE THAT ADEQUATE DRAINAGE IS PROVIDED TO REDUCE RUNOFF ONTO EXISTING ROADS.
 3. COMPLETE THE PLACEMENT OF AGGREGATE BASE TO MEET GRADE AND COMPACTION REQUIREMENTS; A COMPACTION TEST AFTER PASSING INSPECTION, THEN START ASPHALT PAVING.
 4. INSTALL SIDEWALKS AND RELATED SITE IMPROVEMENTS.
 5. CONTRACTOR SHOULD BLOW SEED AND STRAW ON ALL DISTURBED AREAS IN ORDER TO REDUCE EROSION. BARE GROUND AREAS SHOULD BE MINIMIZED DURING CONSTRUCTION.
 6. CONTRACTOR SHOULD BE AWARE THAT EROSION MAY OCCUR IN AREAS THAT ARE UNPROTECTED ON THE CONSTRUCTION SITE. IF THE CONTRACTOR OBSERVES SEDIMENT ACCUMULATION OR EROSION PROBLEMS ON SITE, THEN THE CONTRACTOR MUST CONSULT WITH THE QCP TO DETERMINE THE NECESSARY MEASURES TO STOP SEDIMENTATION, SUCH AS SILT FENCES, WATTLE CHECK DAMS, ETC., AND THEN TAKE THE NECESSARY MEASURES TO STOP THE EROSION, SUCH AS SEED/MULCH, SOD, EROSION BLANKETS, ETC. AS DIRECTED BY THE QCP.

PHASE 4
 1. SOLID SOD WILL BE UTILIZED IN ALL DISTURBED AREAS TO EXPEDITE VEGETATIVE COVER ON THE AREAS DISTURBED BY CONSTRUCTION. THE VEGETATIVE COVER WILL PREVENT LONG TERM EROSION OF THE SITE.
 2. PERMANENT SEEDING WILL BE UTILIZED IN ANY OTHER DISTURBED AREAS THAT DO NOT RECEIVE SOLID SOD. THE PERMANENT SEEDING WILL BE MAINTAINED AND WILL PREVENT SOIL EROSION.
 3. FINAL STABILIZATION OF DISTURBED AREAS MUST, AT A MINIMUM, BE INITIATED IMMEDIATELY WHENEVER ANY CLEARING, GRADING, EXCAVATING OR OTHER EARTH DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED ON ANY PORTION OF THE SITE. TEMPORARY STABILIZATION OF DISTURBED AREAS MUST BE INITIATED IMMEDIATELY WHENEVER WORK TOWARD PROJECT COMPLETION AND FINAL STABILIZATION OF ANY PORTION OF THE SITE HAS TEMPORARILY CEASED ON ANY PORTION OF THE SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING THIRTEEN (13) DAYS.
 4. RIP RAP - NO STEEP DISTURBED SLOPES ARE ANTICIPATED BUT IF UNEXPECTED CONSTRUCTION ISSUES CREATE STEEPER DISTURBED SLOPES, THEY WILL BE STABILIZED WITH RIP RAP TO PROTECT SOIL ON THE SLOPES FROM EROSION. THE RIP RAP WILL PROTECT THE SOIL FROM EROSION DUE TO CONCENTRATED RUNOFF. IT WILL BE USED TO STABILIZE SLOPES THAT ARE UNSTABLE DUE TO SEEPAGE. IT IS ALSO USED TO SLOW THE VELOCITY OF CONCENTRATED RUNOFF WHICH IN TURN INCREASES THE POTENTIAL FOR INFILTRATION.
 5. STORM WATER DETENTION BASIN MUST BE MAINTAINED AFTER CONSTRUCTION AND REGULAR USAGE, REPLANT TREES, GRASS, SHRUBS OR VINES WHERE NEEDED TO MAINTAIN ADEQUATE COVER FOR EROSION CONTROL. MAINTAIN GRASS PLANTINGS WITH PERIODIC APPLICATIONS OF FERTILIZER AND MOWING. THE CITY OF MADISON ALSO REQUIRES THAT THESE DETENTION PONDS RETAIN THE 1/4 INCH, 24 HOUR STORM TO MIMIC THE PRE-DEVELOPMENT CONDITIONS OF PEAK DISCHARGE RATE AND DISCHARGE VOLUME. THIS WILL RETAIN AND SLOW DISCHARGE TO ALLOW SETTLEMENT, OR FILTERING, OF SEDIMENT AND DEBRIS PRIOR TO DISCHARGE INTO THE ADJACENT EXISTING GRASS DRAINAGE DITCH.
 GRASS SWALES MUST BE MAINTAINED: INSPECT THE CHANNEL FOLLOWING STORM EVENTS BOTH DURING AND AFTER GRASS COVER IS ESTABLISHED; MAKE NEEDED REPAIRS IMMEDIATELY. ALSO, CHECK THE CHANNEL OUTLET AND ROAD CROSSING FOR BLOCKAGE, PONDING, SEDIMENT, AND BANK INSTABILITY. BREAKS AND ERODED AREAS; REMOVE ANY BLOCKAGE, AND MAKE REPAIRS IMMEDIATELY TO.

- Erosion Control Notes:**
1. EROSION CONTROL SHALL BE MAINTAINED AT ALL TIMES AND SHALL BE IN ACCORDANCE WITH ALABAMA'S BEST MANAGEMENT PRACTICES.
 2. SILT FENCE SHALL BE PLACED IN ACCORDANCE WITH THE CITY OF MADISON STORMWATER MANAGEMENT MANUAL.
 3. SILT FENCE IS REQUIRED WHERE NECESSARY TO PREVENT EROSION AND WASHING OF TOPSOIL INTO EXISTING WATERWAYS AND DRAINAGE DITCHES UNTIL TIME AS GRASS HAS BEEN FINALLY ESTABLISHED.
 4. EROSION CONTROL IS REQUIRED AROUND INSTALLED STORM DRAINAGE INLETS AND BOXES AS SHOWN HEREON, UNTIL SUCH TIME AS GRASS HAS BEEN FIRMLY ESTABLISHED TO PREVENT TOPSOIL EROSION FROM WASHING INTO SAID INLETS.
 5. 20" WATTLES SHALL BE USED AS TEMPORARY CHECK DAMS IN NEW AND EXISTING DRAINAGE DITCHES UNTIL SUCH TIME AS GRASS HAS BEEN FIRMLY ESTABLISHED TO PREVENT DITCHES FROM WASHING OUT.
 6. AN ENTRANCE CONSTRUCTION PAD SHALL BE BUILT AT ALL EXITS FROM THIS CONSTRUCTION AREA TO EXISTING TRAVELED ROADWAYS IN ACCORDANCE WITH THE DETAILS SHOWN ON THESE PLANS.
 7. THE CONTRACTOR IS REQUIRED TO SEED GRASS OR OTHERWISE STABILIZE ALL DISTURBED AREAS AS SHOWN AS SOON AS CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA.
 8. THE CONTRACTOR IS REQUIRED TO INSURE THAT ALL RUNOFF FROM THE CONSTRUCTION SITE ONTO EXISTING AREAS HAVE BEEN ADEQUATELY TREATED BY THE USE OF EROSION CONTROL METHODS AS SHOWN HEREON.
 9. ALL REAR YARD DITCHES MUST BE FULLY SODDED.
 10. ALL R.O.W. MUST HAVE FULL STAND OF GRASS PRIOR TO FINAL INSPECTION.
 11. ALL GRADED SLOPES SHALL BE GRADED TO A MAXIMUM SLOPE OF 4%.

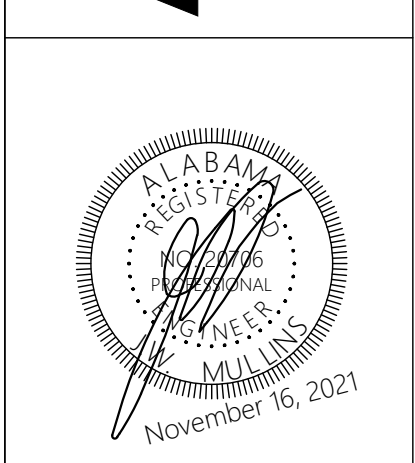


REVISIONS

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The Roberts Apartments at TM
 Madison, AL
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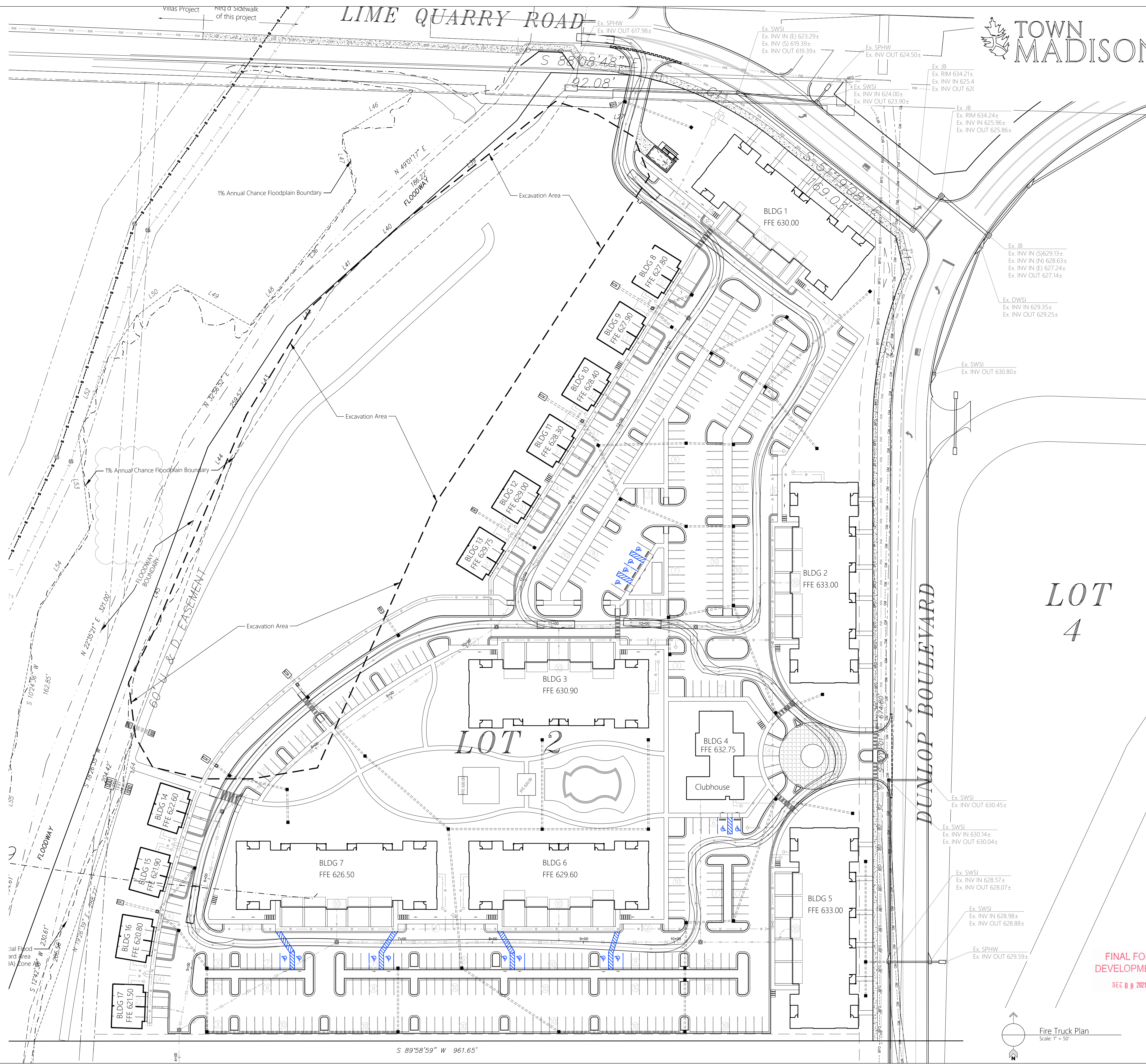
Erosion Control Plan

Job No: 21-128
 Date: 2021-11-16
 Drawn by: JLH
 Checked by: RS

SHEET NUMBER
C7

FINAL FOR DEVELOPMENT
 DEC 09 2021

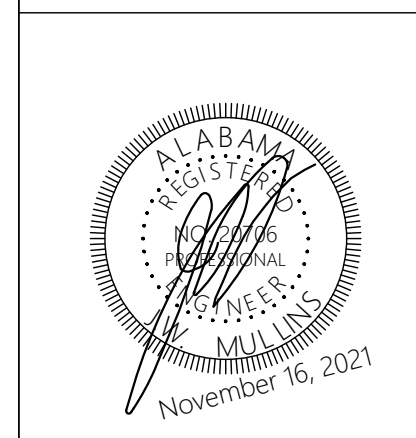
LIME QUARRY ROAD



NO.	DATE	DESCRIPTION
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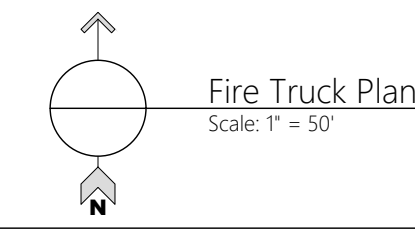
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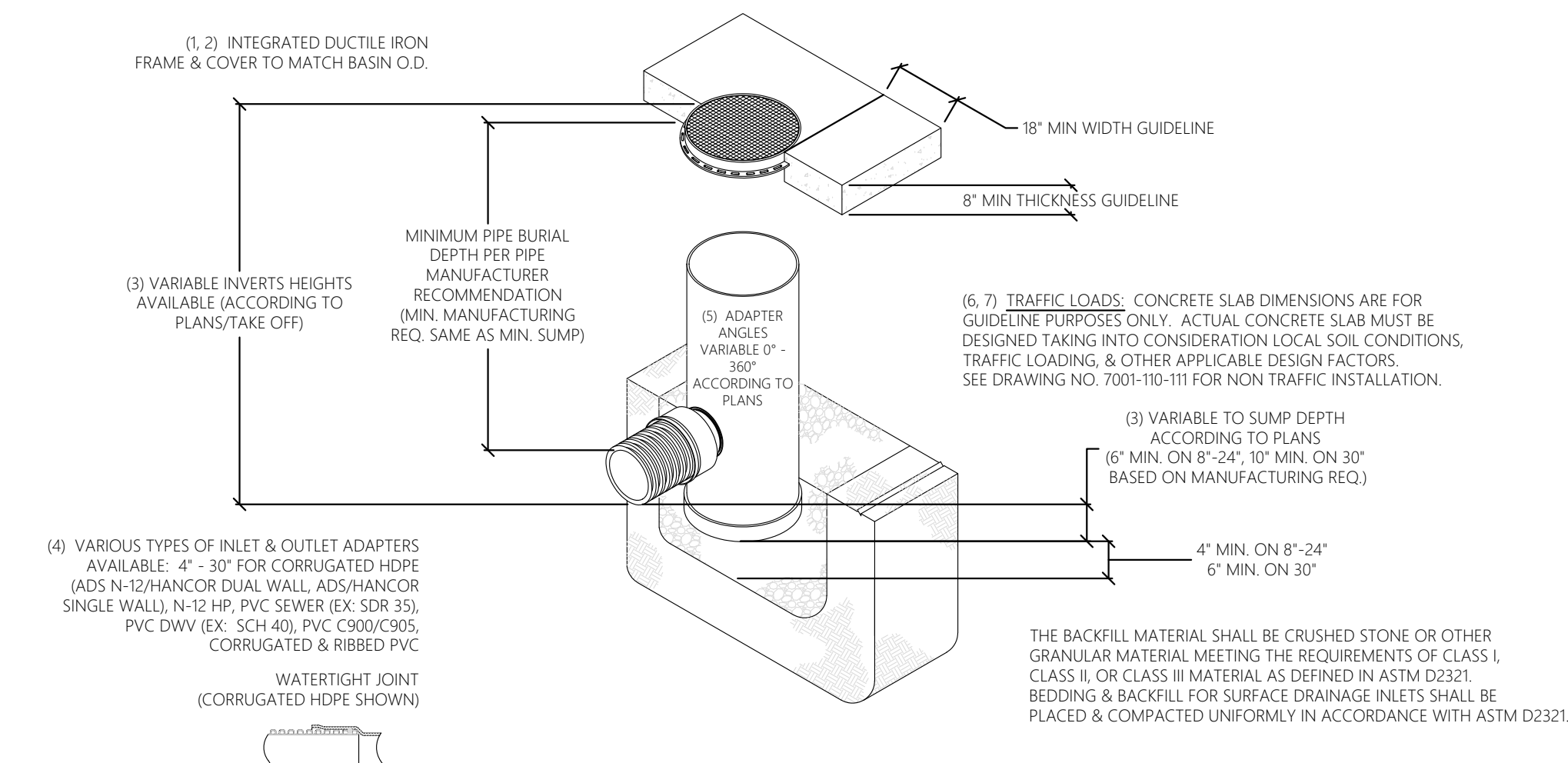


The Roberts Apartments at TM
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Fire Truck Access Plan
 Job No. 21-128
 Date: 2021 11-16
 Drawn By: JLH
 Checked By: RS
 SHEET NUMBER
C8

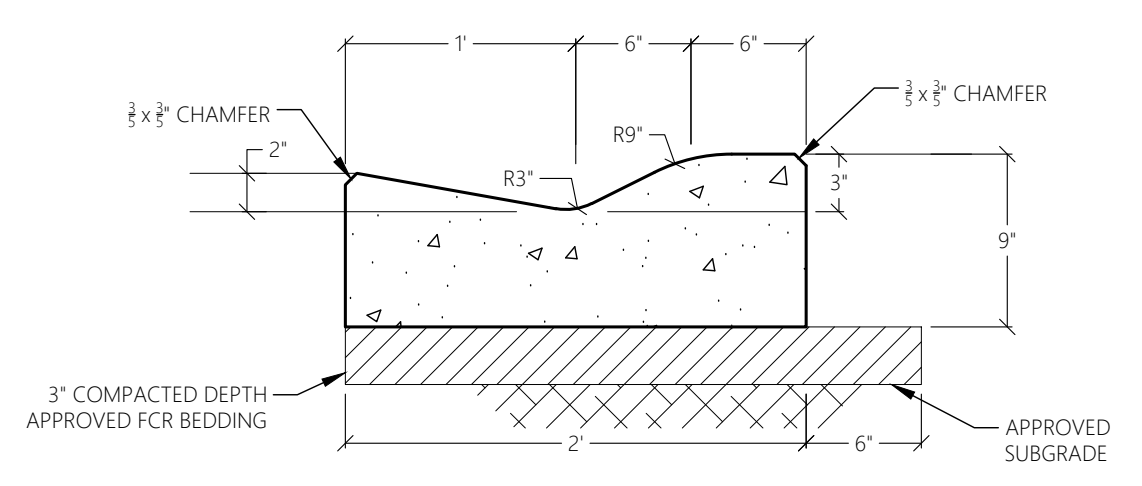
FINAL FOR DEVELOPMENT
 DEC 9 2021



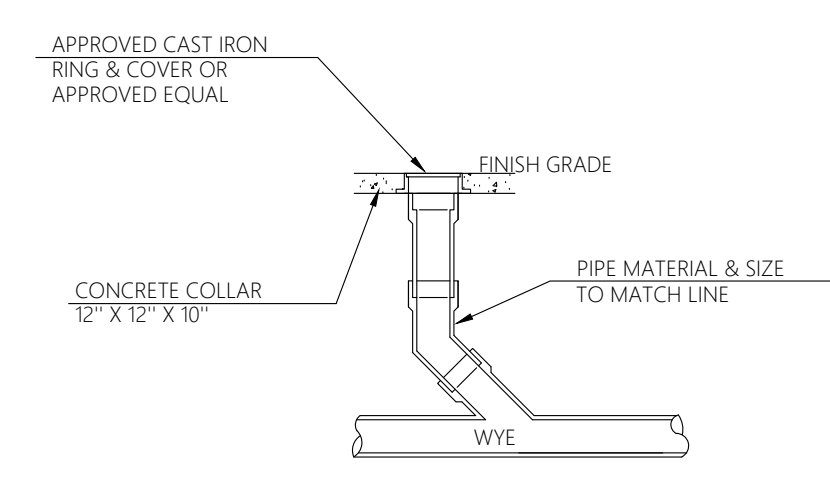


- 1 - 8' - 30' SOLID COVERS SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
- 2 - 12' - 30' FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
- 3 - 8' & 10' SOLID COVERS FIT DIRECTLY ONTO DRAIN BASINS WITH THE USE OF A PVC BODY TOP. SEE DRAWING NO. 7001-110-045.
- 4 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065.
- 5 - DRAINAGE CONNECTION SUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL, N-12 HP, & PVC SEWER 4" - 24").
- 6 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360° TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.
- 7 - 12' - 30' SOLID COVERS SHALL MEET H-20 LOAD RATING.
- 8 - 8' & 10' SOLID COVERS ARE RATED FOR LIGHT DUTY APPLICATIONS ONLY. NO CONCRETE COLLAR NEEDED FOR LIGHT DUTY RATING.

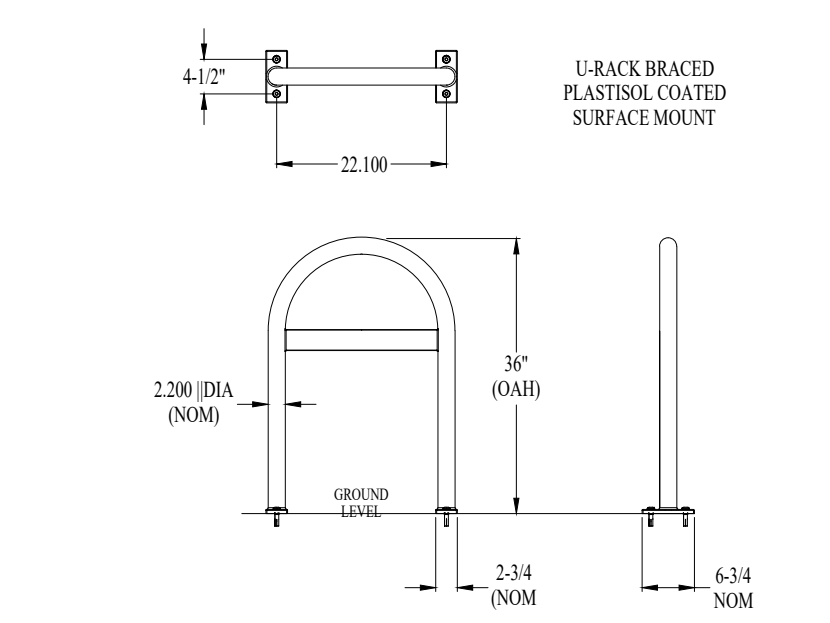
Nyloplast Junction-Box
NOT TO SCALE



Fully Mountable Curb & Channel
NOT TO SCALE

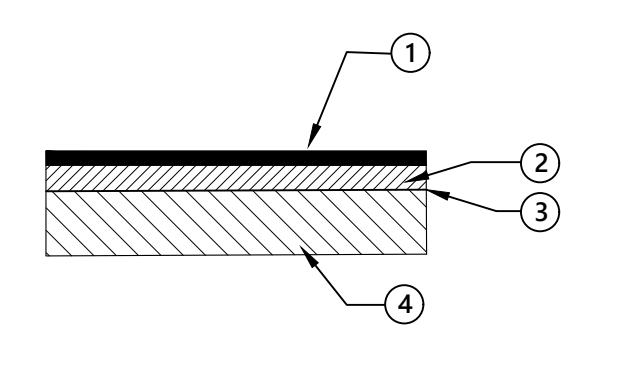


Clean-out
NOT TO SCALE



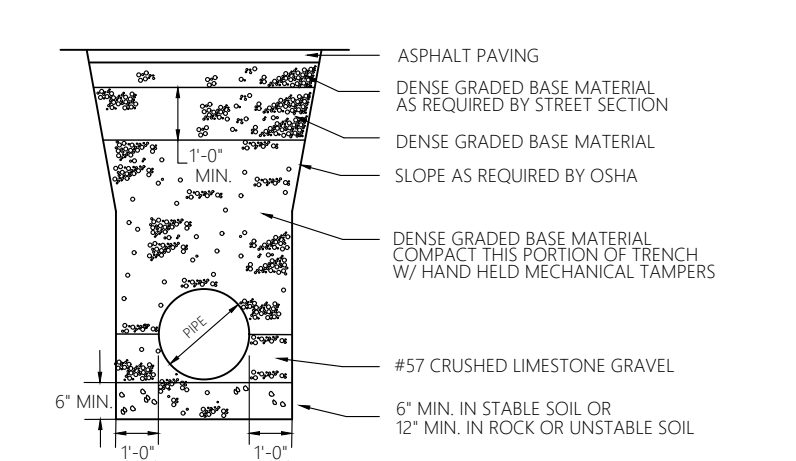
Arcat U-Rack 'Braced' 2-Bike Rack Module
NOT TO SCALE

TOP 6" OF SUBGRADE SHALL BE COMPACTED TO 100% PROCTOR DENSITY. BELOW 6" IS TO BE COMPACTED TO 90% PROCTOR DENSITY AS DETERMINED BY AASH TO 199 COMPACTION TEST. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

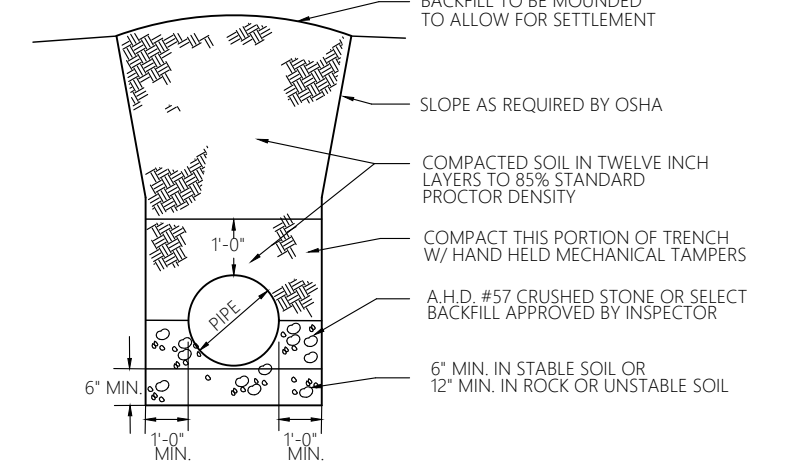


Asphalt Paving Section
NOT TO SCALE

- 1 10 LBS./S.Y. (7) HOT BITUMINOUS CONCRETE WEARING COURSE, ALDOT REF. 404-A, MAX 1 OF SPECS.
- 2 224 LBS./S.Y. (2) HOT BITUMINOUS CONCRETE BINDER COURSE, ALDOT REF. 404-A, MIX 1 OF SPECS.
- 3 0.10 GAL./S.Y. ENHANCED ASPHALT OR 0.07 GAL./S.Y. TACK COAT. ALL MATERIALS ARE TO BE IN ACCORDANCE WITH SEC. 405 OF THE AL DOT SPECIFICATIONS.
- 4 5" LAYER OF DENSE GRADED LESTONE BASE COURSE. AL DOT REF. 309 OF SPECS. ALL MATERIALS SHALL BE IN ACCORDANCE WITH SEC. 405. TYPE 1P, COMPACTION TO 100% LVD.

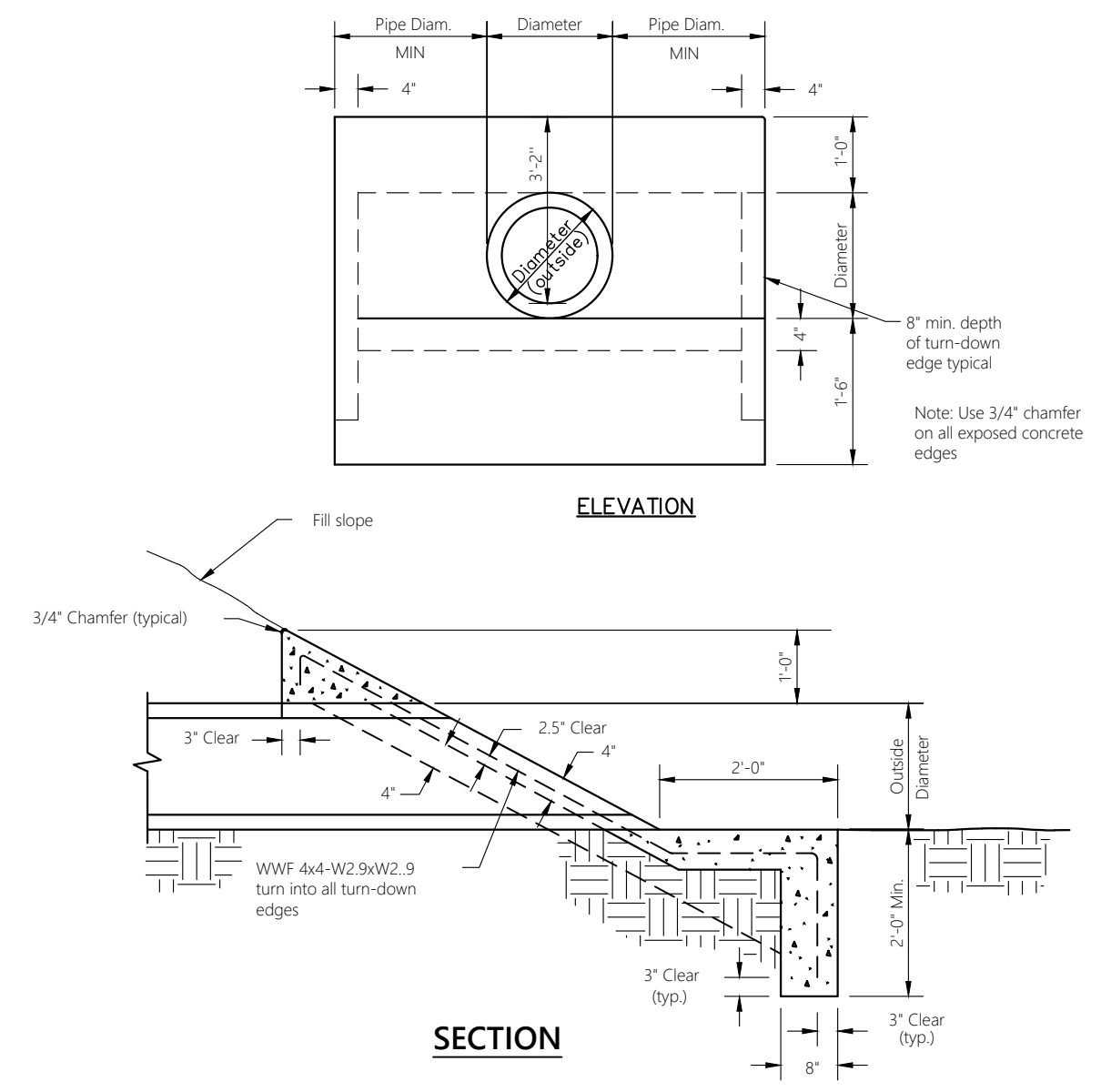


TRAFFIC AREAS

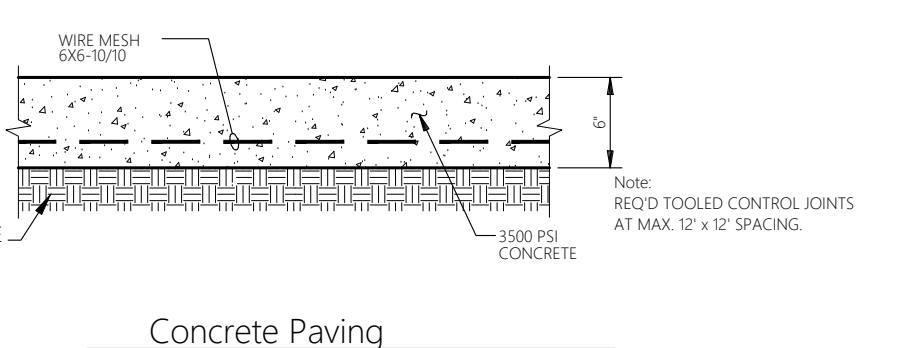


NON-TRAFFIC AREAS

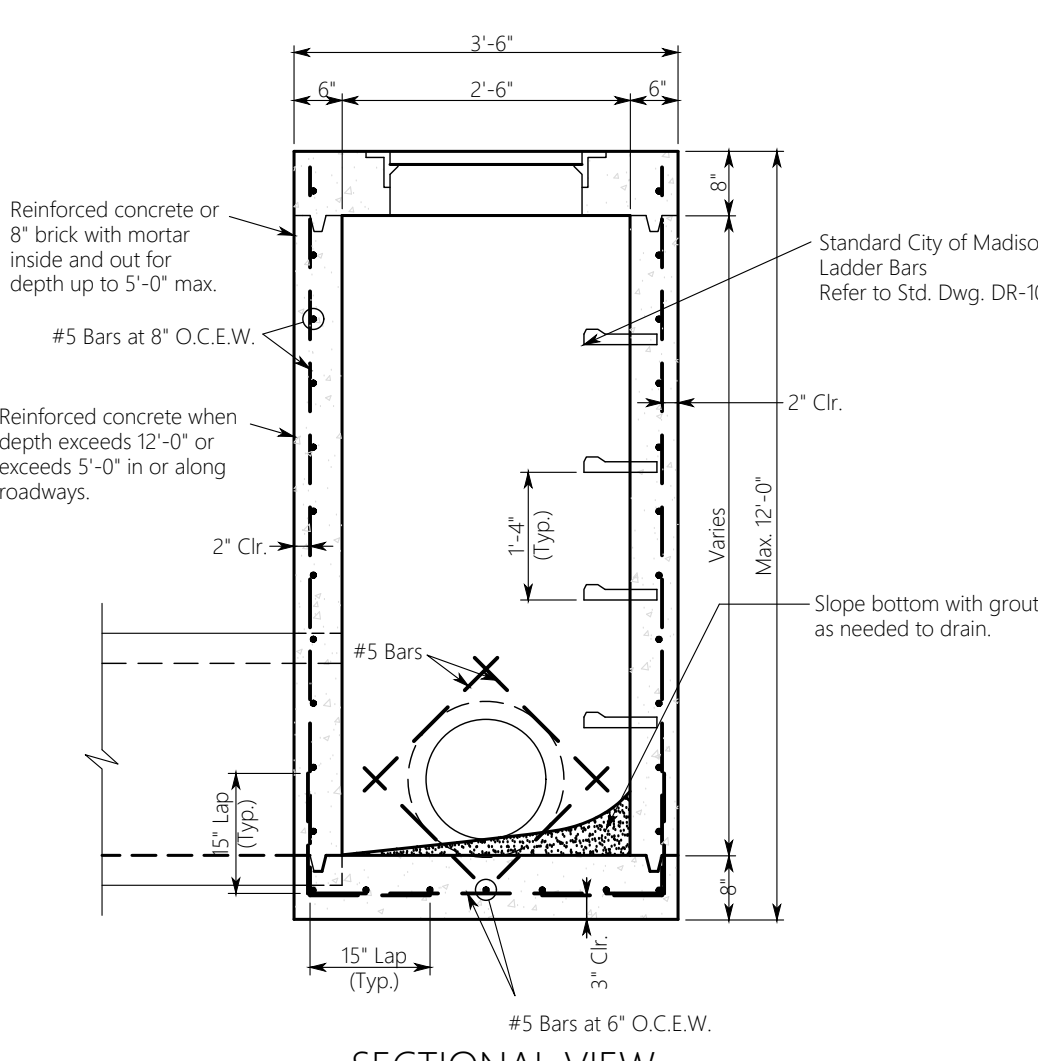
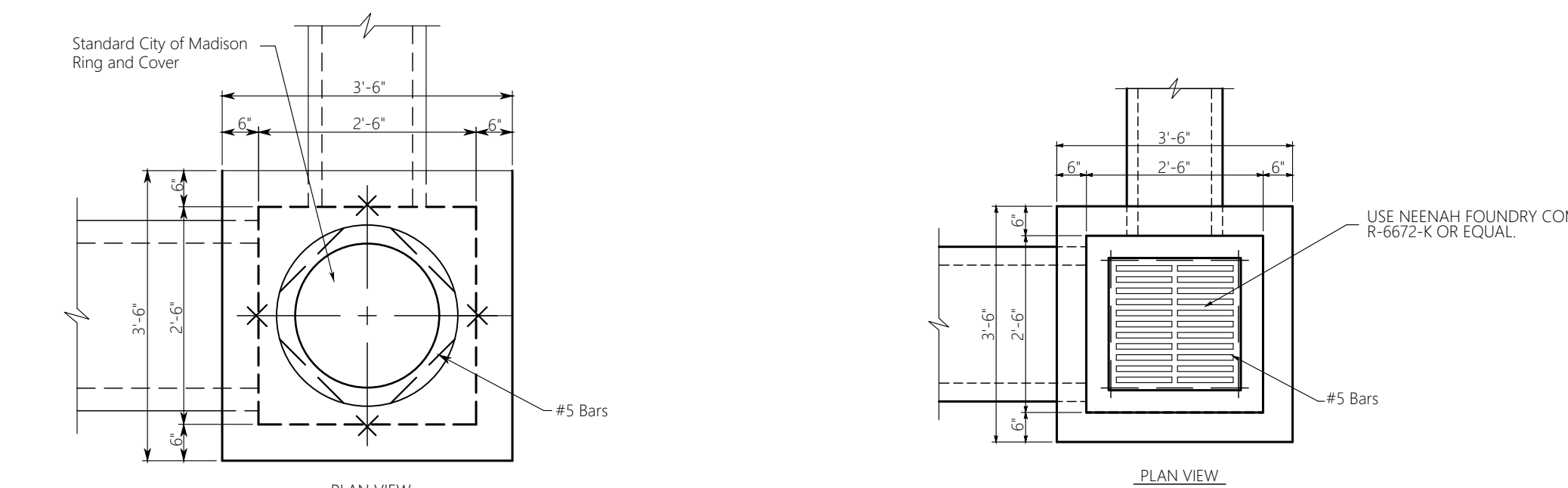
Storm Pipe Bedding
NOT TO SCALE



Concrete Sloped Paved Headwall
NOT TO SCALE



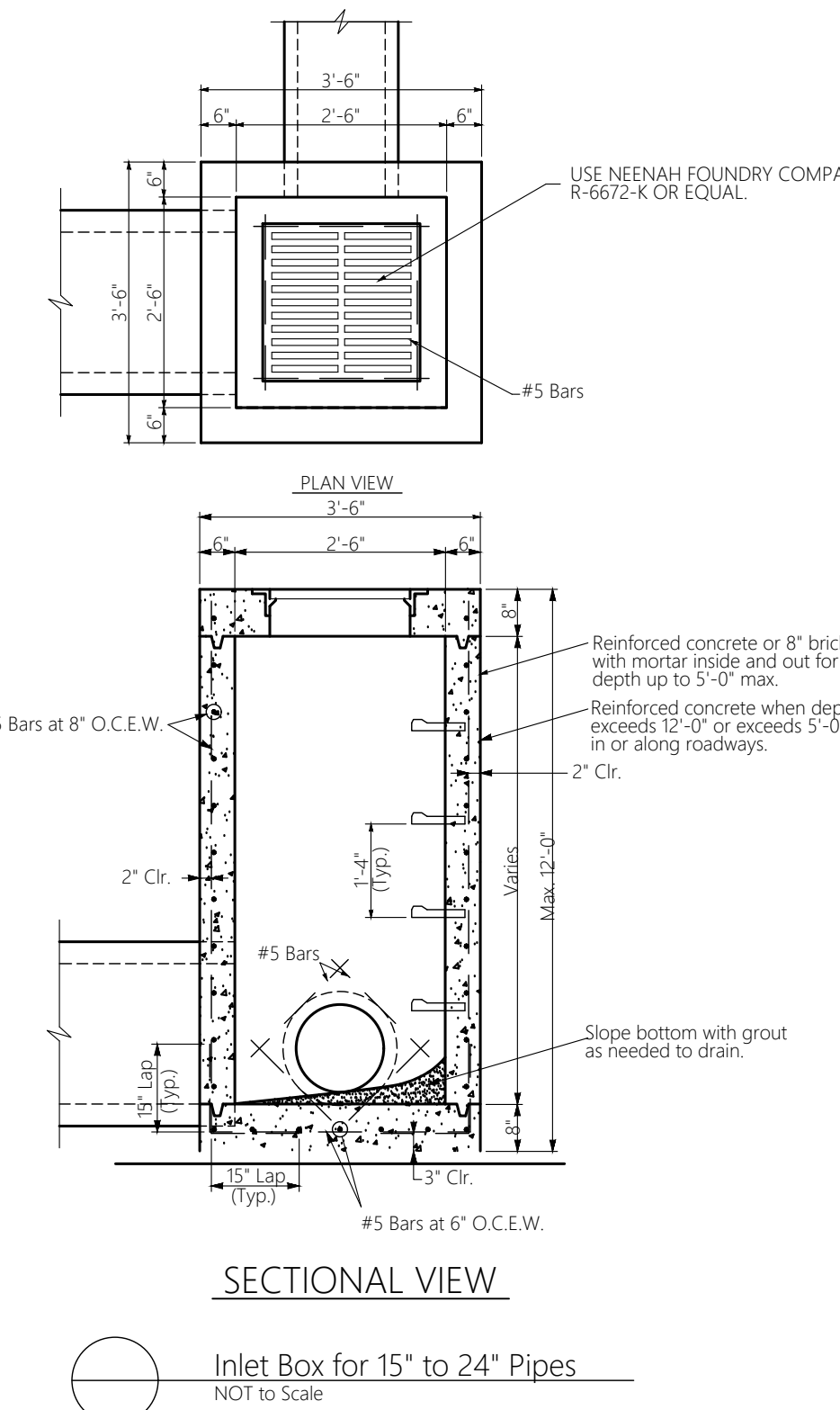
Concrete Paving
NOT TO SCALE



SECTIONAL VIEW

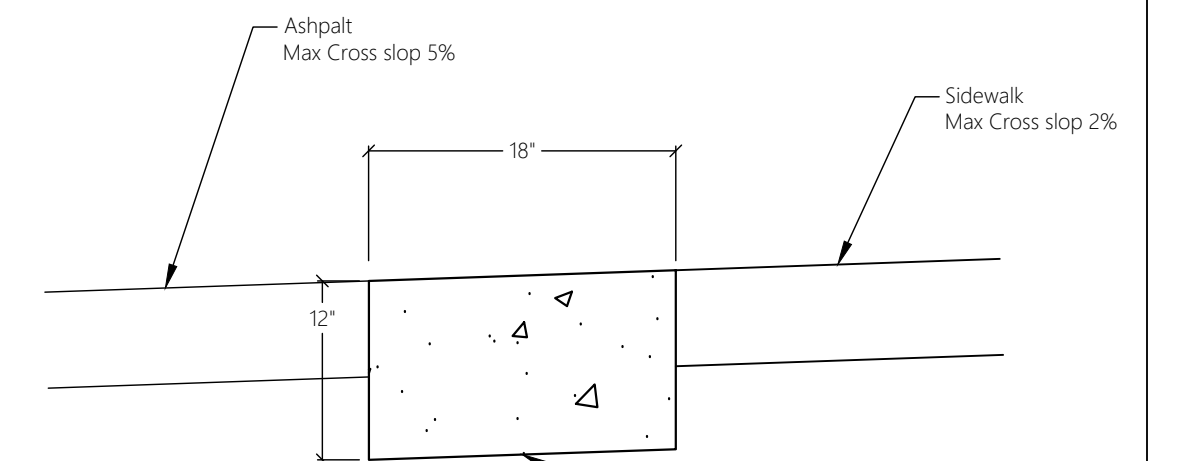
- NOTES**
- All concrete shall be class 'A' and shall develop a minimum compressive strength of 3000 PSI in 28 days.
 - Reinforcing shall be grade 60 deformed bars and shall conform to ASTM requirements.
 - Steps are required on all Junction Boxes when dimensions from bottom of top slab to top of bottom slab is greater than 4'-0\"/>

Junction Box for 15\"/>



SECTIONAL VIEW

Inlet Box for 15\"/>



Concrete Ribbon
NOT TO SCALE

Concrete Curb & Gutter
NOT TO SCALE

- NOTES**
- EXPANSION JOINTS REQUIRED AT 75' INTERVALS
 - CONSTRUCTION JOINTS REQUIRED AT 25' INTERVALS
 - 3000 p.s.i. CONCRETE

FINAL FOR DEVELOPMENT
DEC 09 2021

NO.	DATE	DESCRIPTION

REVISIONS

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MULLINS, LLC
CIVIL ENGINEERING, DEVELOPMENT DESIGN
SURVEYING, LANDSCAPE ARCHITECTURE

2201 West Clinton Avenue, Suite 503, Huntsville, AL 35805
(256) 690-5312



The Roberts Apartments at TM
Madison, AL

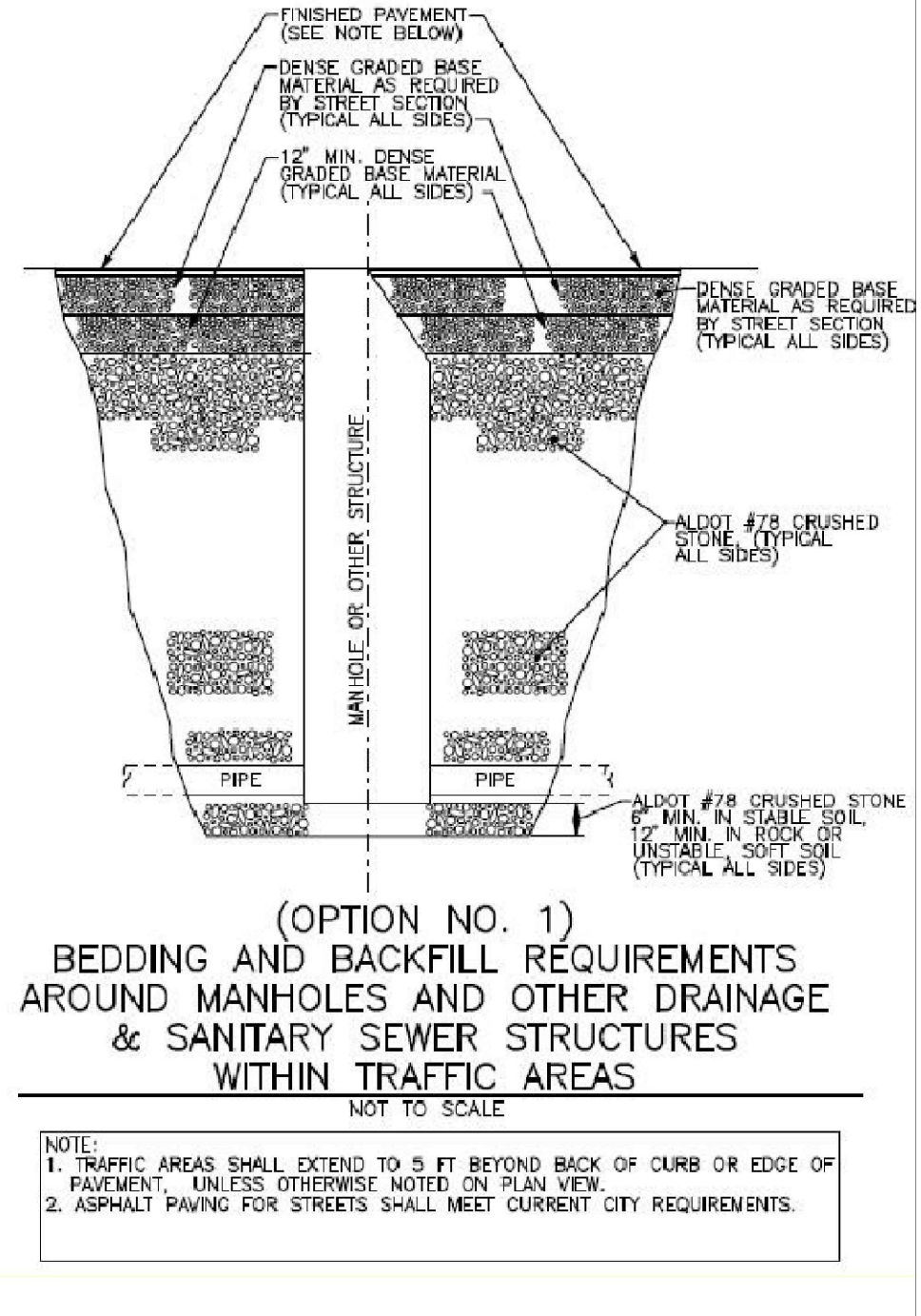
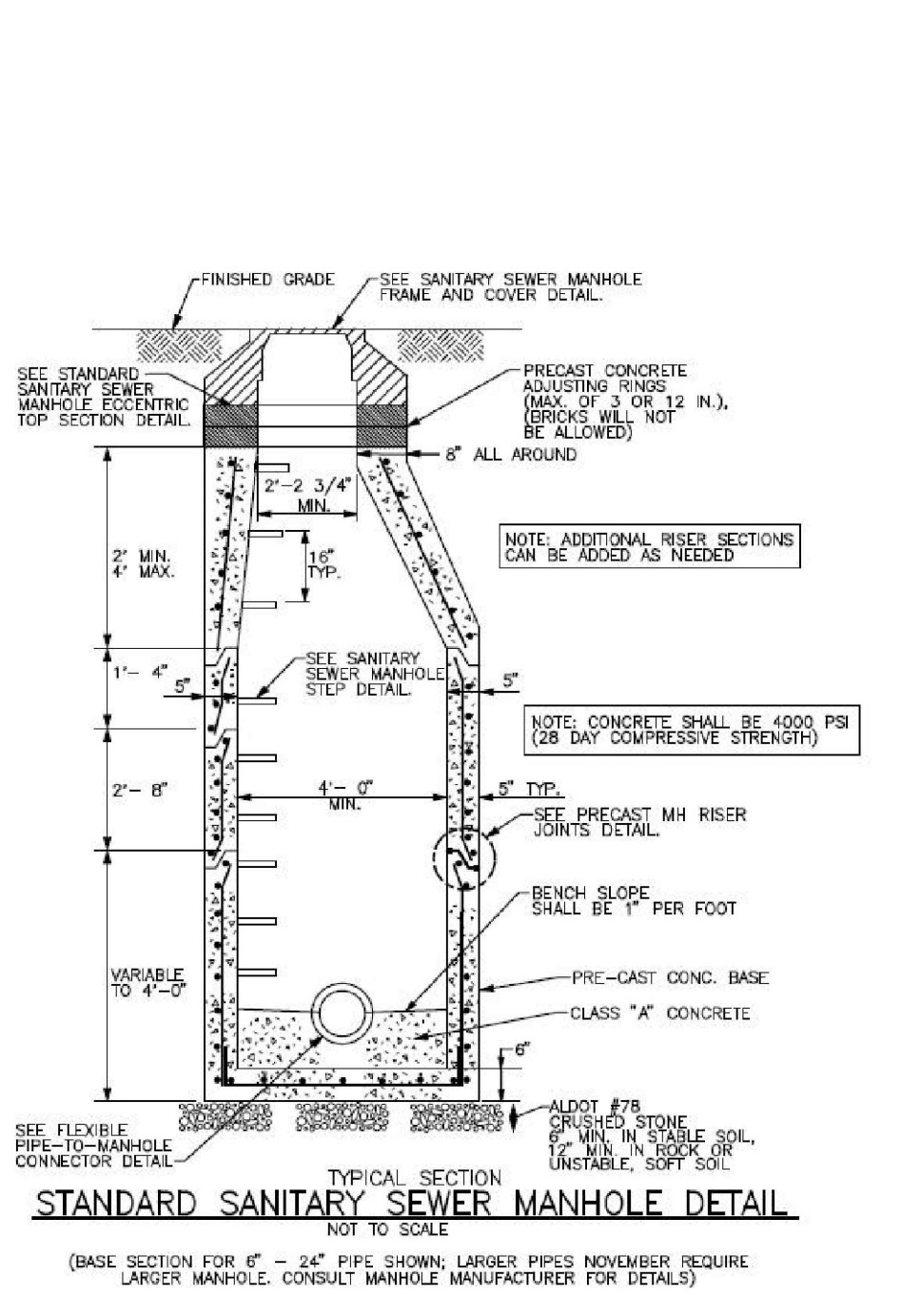
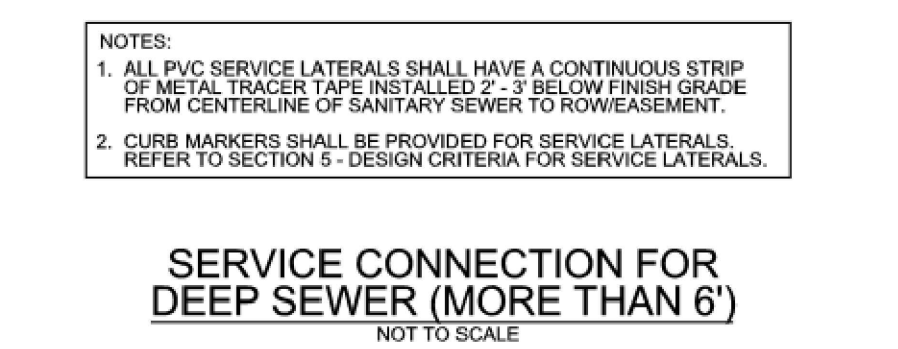
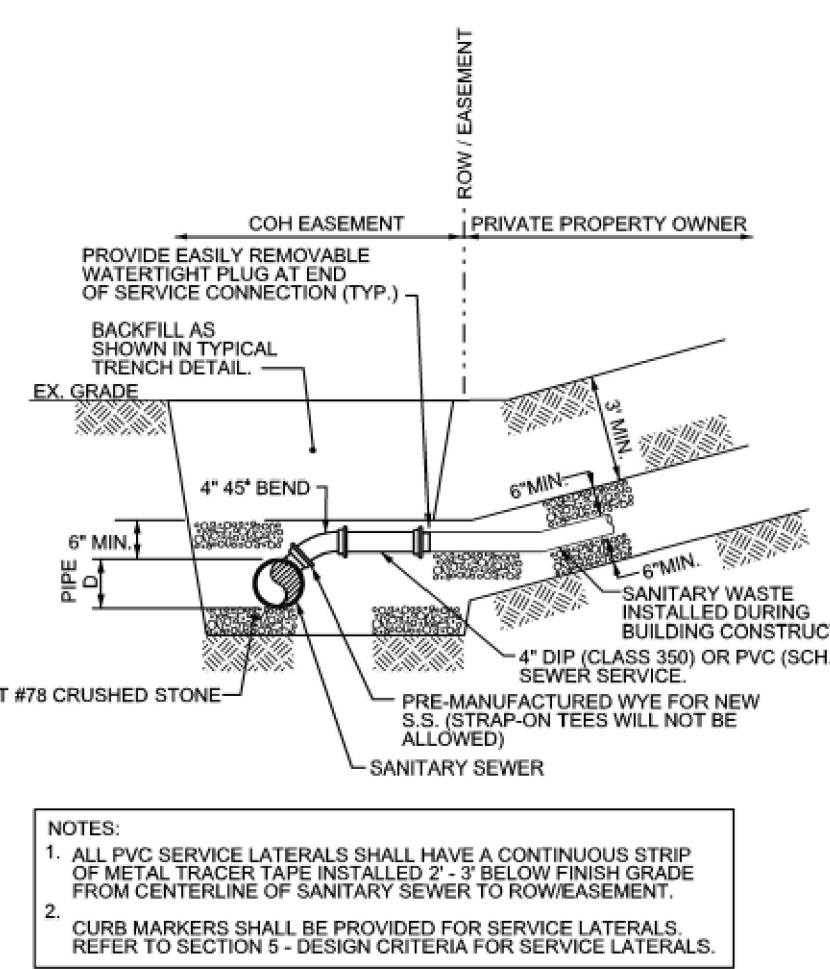
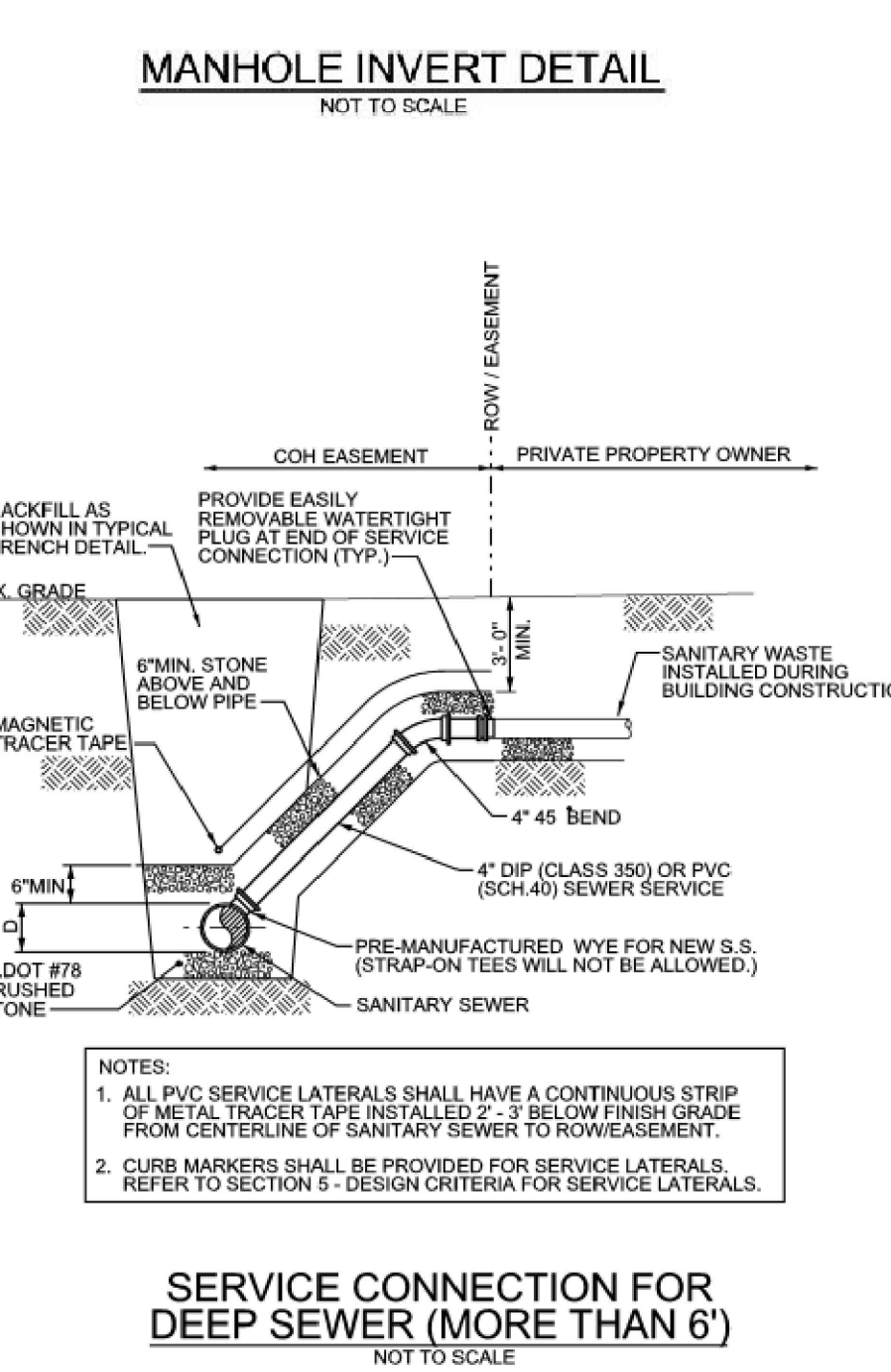
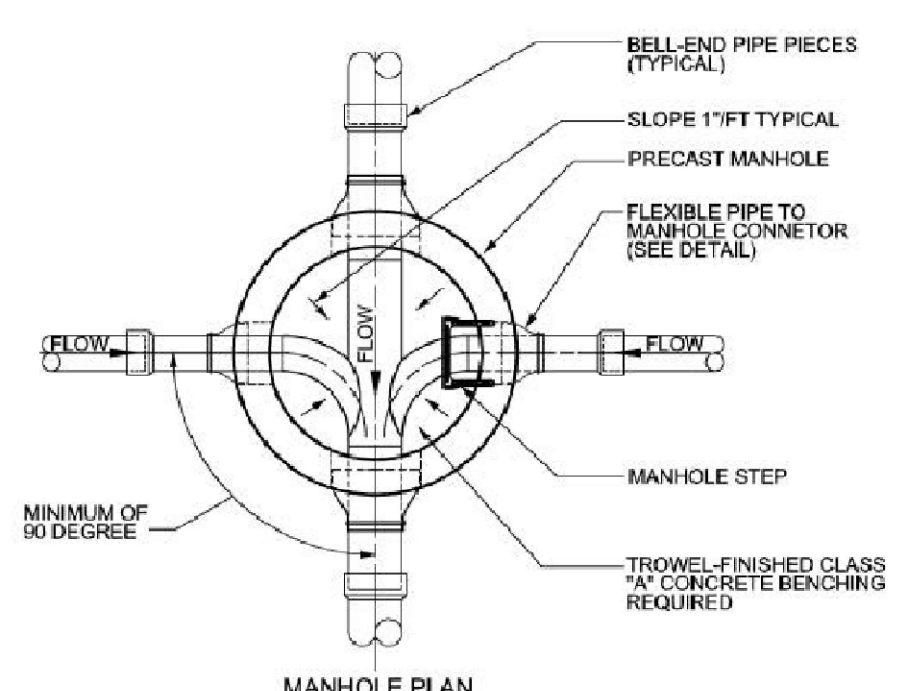
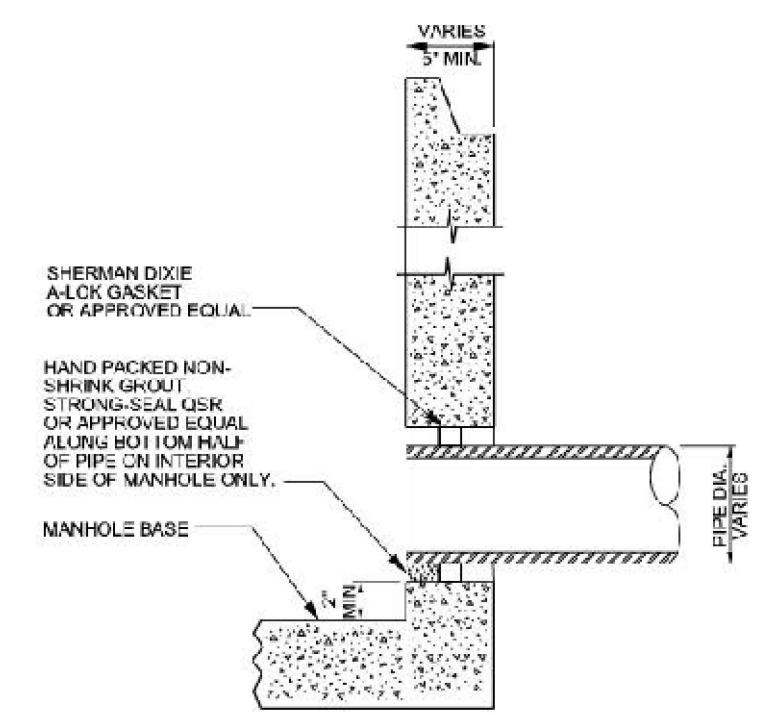
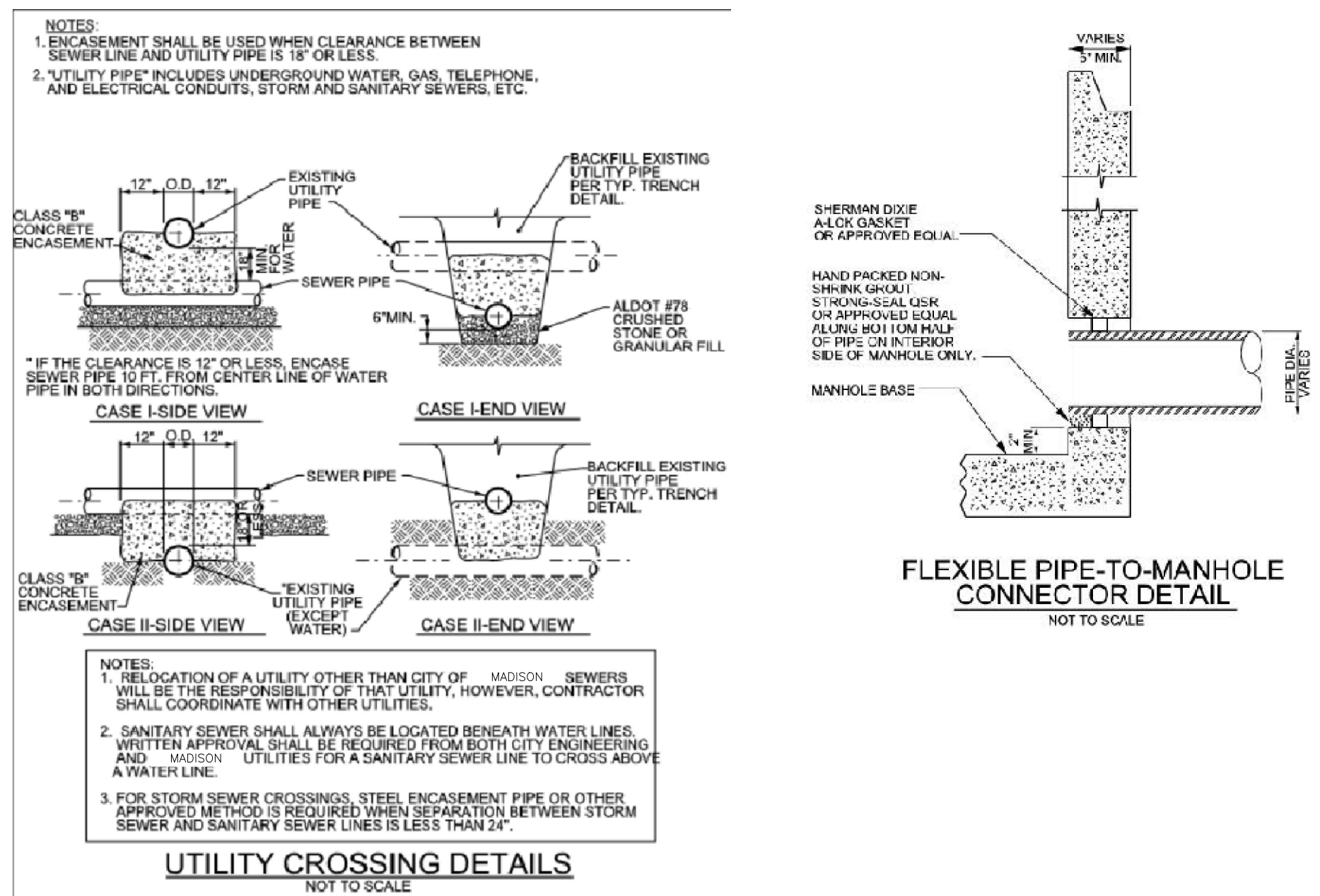
PREPARED FOR:

Civil Details

Job No. 21-128
Date: 2021-11-16
Drawn By: JLH
Checked By: RS

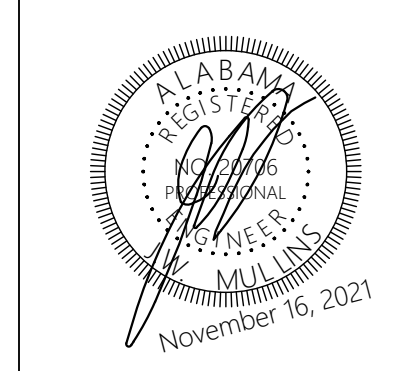
SHEET NUMBER
C9.1

DATE	REVISIONS



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 SURVEYING, LANDSCAPE ARCHITECTURE
 2101 West Clinton Avenue, Suite 503, Huntsville, AL 35805
 (256) 690-5312



The Roberts Apartments at TM
 Madison, AL
 PREPARED FOR: ...

Civil Details
 Job No. 21-128
 Date: 2021 11-16
 Drawn By: JLH
 Checked By: RS

SHEET NUMBER
C9.2

FINAL FOR DEVELOPMENT
 DEC 8 2021

Irrigation Requirements:

- Piping**
 - All irrigation main lines shall be SCH 40 PVC, sized as shown, and shall be buried a min. of 30" below finish grade and installed in trenches with proper identifying tape for in-field location.
 - All irrigation laterals shall be Class 200 PVC and shall be buried a min. of 18" below finish grade.
 - Funny pipe may be used for connection of spray head bodies or dripline to irrigation mains, however, individual funny pipe runs shall not exceed 5'.
 - In all instances where irrigation piping crosses hardscape, irrigation piping shall be installed in a SCH 40 PVC sleeve sized a min. of 2 sizes larger than the largest pipe crossing hardscape.
 - Common trenches may be used for main and lateral piping and wiring.
- Valves**
 - System shall have a master valve as part of the controlled irrigation system in location as indicated on Landscape Plan.
 - Master Valve shall be pressure-regulated such that output pressure is 100 psi.
 - All valves for this system shall be RainBird PESB model with PRS-D pressure regulation module, sized as appropriate for the individual zone for lateral lines or to match the main line for the master valve. System shall be zoned so that beds and turf areas are not irrigated together, with proximate, similar areas zoned together to minimize zone/valve count, within reason. Zoning/valving shall be included in submitted design for approval by Landscape Architect, prior to beginning installation.
 - All valves shall be fitted with RainBird decoders for communication with two-wire based controller system.
 - All valves shall be installed in RainBird PVB standard or jumbo valve boxes, installed per manufacturer's details, specs, & requirements.
- Landscape Bed Irrigation**
 - Landscape Bed zone valves shall be pressure-regulated such that dripline operates at ~40 psi.
 - Landscape beds shall be irrigated by dripline tubing. RainBird model XFS. Dripline tubing may be installed at finish grade, below mulch, or just below finish grade.
 - Shrubs and trees shall, at minimum, have 1 row of dripline along 2 sides of the plants, located generally above the rootball of the plant, as well as 1 row of dripline along 2 sides of the plants, located 1' outside the rootball for shrubs and 3' outside the rootball for trees.
- Sod Area Irrigation**
 - Sod zone valves shall be pressure-regulated such that heads operate at ~40 psi.
 - Sod areas shall be irrigated by spray nozzles, with pressure-regulating spray body. Spray bodies shall be Hunter Pro-Spray model PRS40 with MP Rotator spray nozzles.
 - Nozzle selection shall be appropriate for throw radius and area shape.
 - All spray heads shall be trained to minimize overspray onto all hardscape areas, buildings, fences, furnishings, etc.
- Quick Couplers**
 - Contractor shall install a 1" RainBird quick coupler at each location indicated on Landscape Plan.
 - Quick Couplers shall be piped off of Irrigation Mains.
 - Quick Coupler shall be installed in RainBird PVB standard valve box, per manufacturer's details, specs, & requirements.
- Controller**
 - Irrigation controller for this system shall be RainBird ESP-LXD two-wire decoder controller. Location as shown on Landscape Plan.
 - Controller shall be mounted in appropriate RainBird stainless steel pedestal, per manufacturer's requirements and specifications.
 - Contractor shall coordinate with Owner for any communication tie-in to Owner's overall property infrastructure management system.
- Wiring & Grounding**
 - All valves shall be connected to the controller by two-wire product which meets or exceeds minimum requirements of controller manufacturer, using DBY connectors installed in gel-filled housing.
 - Grounding, lightning arrestors, and other related fixtures shall be installed per controller manufacturer's details, specs, & requirements. Should the controller manufacturer require certification of grounding measures installation, contractor shall arrange for such inspection and make adjustments as required for certification. Landscape Architect shall be included in all correspondence and inspections.

Landscape/Irrigation Inspections:

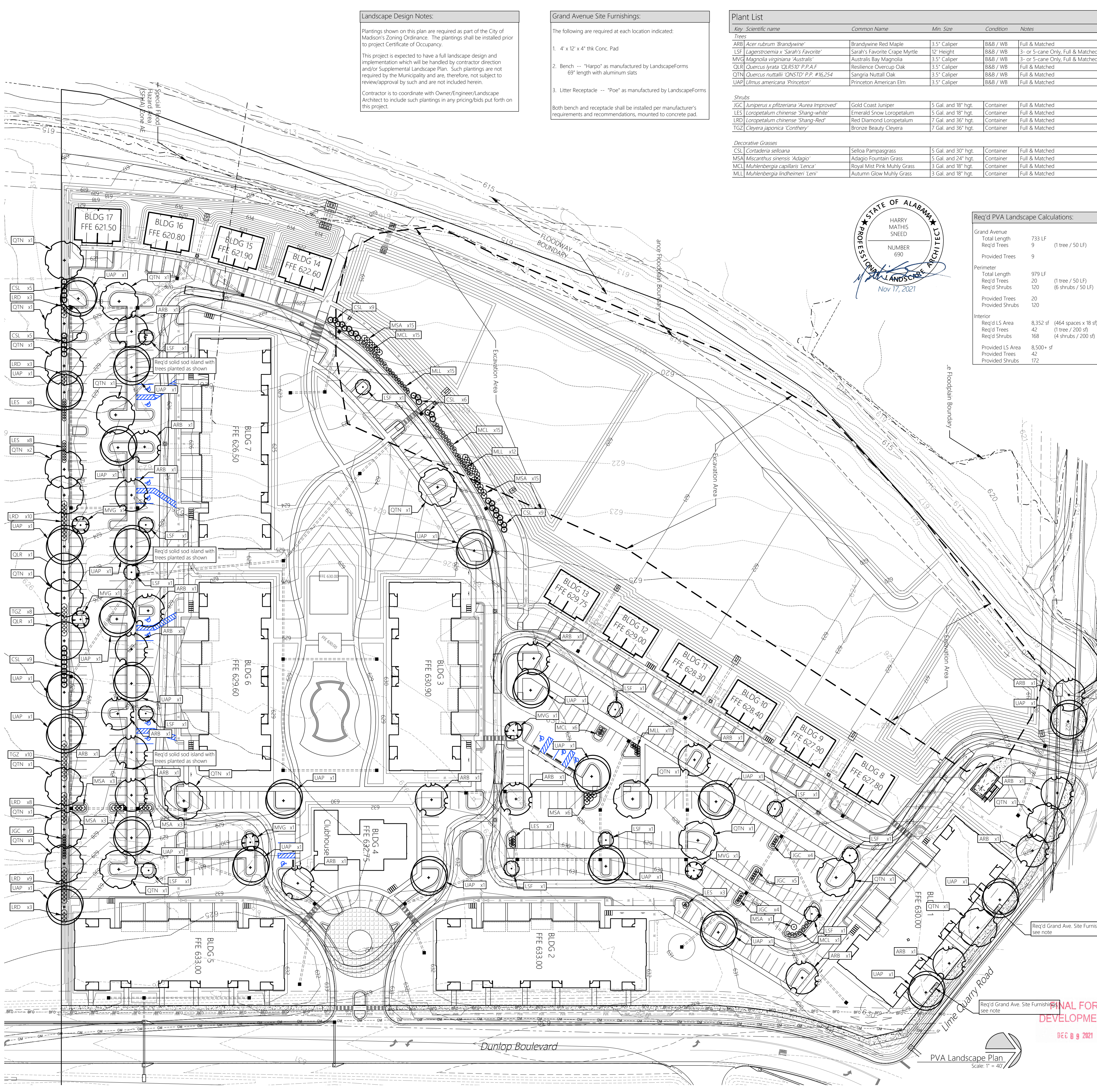
- Contractor shall coordinate with Landscape Architect at tree delivery for inspection by Landscape Architect and approval prior to unloading.
 - Finish Grade
 - Tree Locations
 - Bed Lines
 - Landscape Irrigation Main Line
 - All Valve Boxes
 - Quick Couplers
 - Landscape Irrigation Controller

NOTE: Any plant materials that are damaged (by transport, handling, installation, or other construction activities) are rejected and shall be replaced at no cost or delay to the Owner.

Landscape Installation Notes:

- All existing trees outside of the limits of work for this project shall be protected during the construction and installation of these improvements and are not to be damaged in any manner. Any damage to such shall be brought to the attention of the Landscape Architect immediately for determination of appropriate corrective measures, if any. Contractor shall execute said corrective measures at no additional cost to the Owner.
- All areas to receive landscape plantings (trees, shrubs, sod, etc.) shall be backfilled with min. 12" of topsoil (from nearby stripped topsoil stockpiles) prior to plant material installation or mulching. Placed topsoil shall be worked to remove and/or break-up any large clumps of soil and shall be fine-graded in all areas for a smooth, consistent finish product. Any debris or deleterious materials within the 12" profile of landscape areas shall be removed prior to placing any topsoil. Any debris, large rocks, roots, etc. shall be removed from the topsoil prior to finish-grading efforts.
- Contractor shall stake tree locations and layout bed lines for approval by Landscape Architect prior to installation. Adjust staked locations and bed lines as directed.
- All landscape materials are subject to approval of the Owner or Landscape Architect at any time during the job, up until point of acceptance.
- All plants shall meet standards set forth by the American Standards for Nursery Stock.
- Provide No. 1 grade or better nursery grown stock grown in an approved, recognized nursery in accordance with requirements of applicable standards as noted herein. Provide only healthy, vigorous, stock free of disease, insects, injuries, abrasions crown die-back or disfigurements.
- All trees shall have a single, straight leader (co-dominant leaders are unacceptable) unless otherwise noted. Trees with narrow crotches of included bark, split bark with inrolled callus, dead, broken, or flush-out branches will not be accepted. Rootballs shall be firm, neat, slightly tapered and well burrapped. Trees with loose or broken rootballs at time of planting shall be rejected. All trees indicated as B&B/WB in plant schedule shall be balled and burrapped and set in wire basket at time of digging at nursery.
- Plant material transported in open vehicles / trailers is damaged and subject to rejection.
- Any rejected plants shall be removed from the site and replaced by acceptable plants meeting drawings notes & specifications at no additional cost to the owner.
- All plant material, upon delivery to site shall be immediately planted in prepared and prior-approved beds and pits. If contractor is unable to plant within 2 hours of plant delivery to site, plants shall be heeled in, the roots kept moist, and plants otherwise protected and maintained until installation at no cost to the owner.
- All plant material shall be handled by the container or rootball and not by the top growth.
- Plants injured on job site are not acceptable and shall be replaced by contractor at no additional cost to the owner.
- All plant material shall be warranted by Landscape Contractor for a period of one year after final acceptance. Dead or declining plant material shall be rejected and shall be replaced by Landscape Contractor at no cost to the owner. It is the Contractor's responsibility to contact the Owner at the end of the warranty period. If the Contractor fails to notify and meet with the Owner, the warranty period shall continue until the meeting is held, dead or declining plant material is replaced, and the project is accepted by the Owner.
- Trees shall be staked with ArborTie product, min. three (3) per tree, per manufacturer's requirements and recommendations. Tree staking shall be removed from established plants at the end of the warranty period.
- Mulch for trees and shrub beds shall be pine straw, installed to 3" settled thickness. Mulch shall extend min. 4' around trees.
- All trees shall be purchased from the following supplier list, all subject to approval & pre-selection by Owner and/or Landscape Architect.

Hunter Trees	Alpine, AL	(866) 348-6837
Select Trees	Bithop, GA	(706) 743-5124
Bold Spring Nursery	Hawkinsville, GA	(478) 783-4975
- Finish grade shall be approved by Landscape Architect and Owner's representative. All weeds shall be sprayed and removed prior to planting, seeding, and/or sodding.
- All disturbed areas within the project's property and associated ROW shall be fully treated by either:
 - Solid sod shall be planted with Tifton Bermuda over raked and fine-graded finish grade. Full, consistent stand of turf shall be established in all areas designated, prior to landscape acceptance.
 - Landscape Bed area, mulched per notes.
- Exc. turf areas shall be protected as much as is practicable. Any turf areas damaged as part of this work shall be repaired/replaced to match surrounding at no cost to the owner.
- Contractor shall arrange for landscape inspection with Landscape Architect upon completion of installation for final acceptance.



REVISIONS

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CIVIL ENGINEERING, DEVELOPMENT DESIGN, SURVEYING, LANDSCAPE ARCHITECTURE
2201 West Clinton Avenue, Suite 503, Huntsville, AL 35895
(256) 690-5312
PREPARED FOR: Robidit Group

The Roberts Apartments at Town Madison
Madison, AL

PVA Landscape Plan

Job No: 21-128
Date: 2021/11/17
Drawn By: HMS
Checked By: HMS

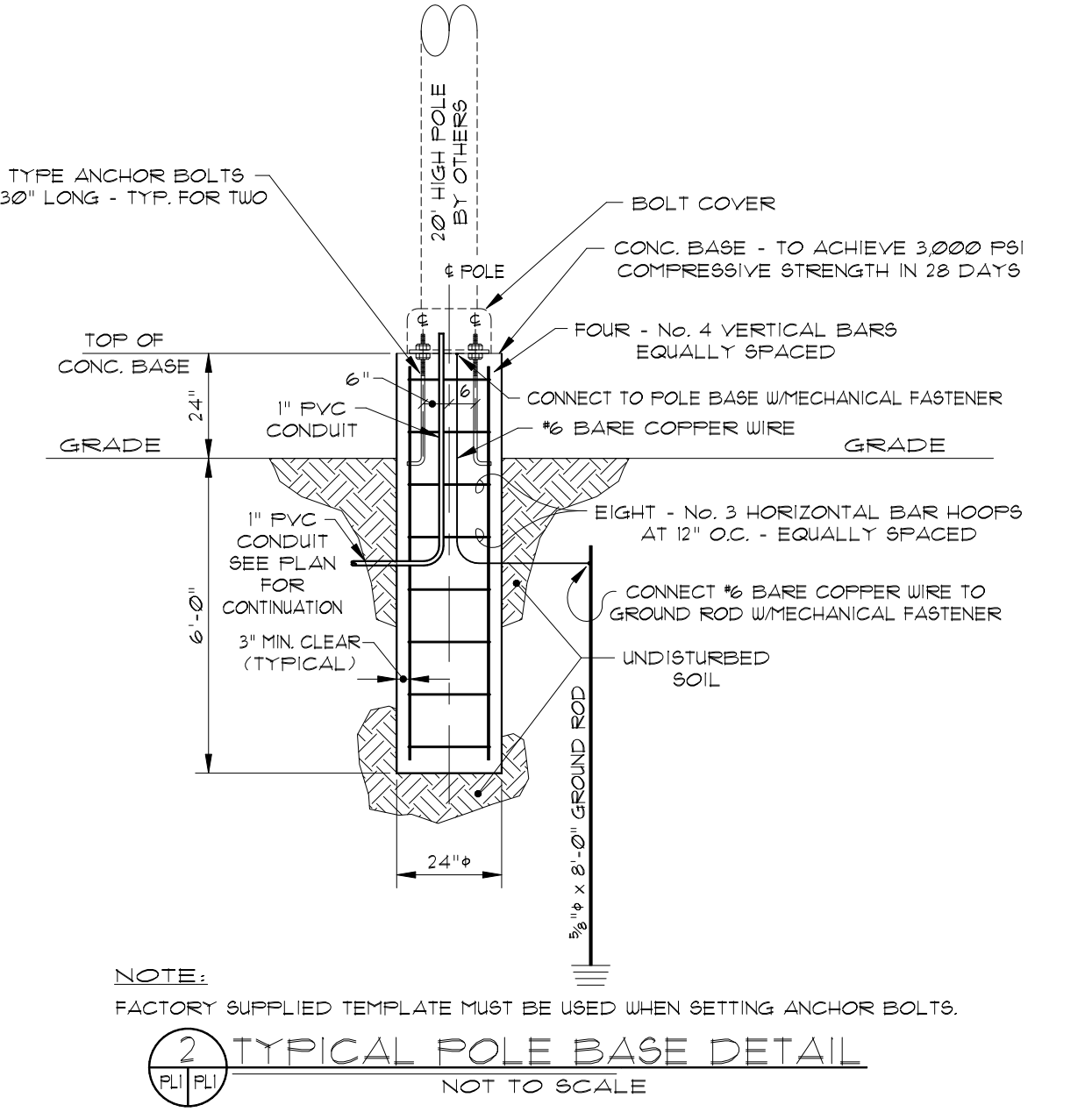
SHEET NUMBER
L1

DATE: 11/17/2021

PVA Landscape Plan
Scale: 1" = 40'

LIGHTING NOTES

1. VERIFY EXACT LOCATIONS WITH OWNER'S REPRESENTATIVE BEFORE ROUGHING IN.
2. CONTRACTOR SHALL CHECK ALL LIGHTING FIXTURES FOR EXACT MOUNTING TYPE AND SPACE REQUIRED BEFORE ROUGHING IN.
3. ELECTRICAL CONTRACTOR SHALL WORK CLOSELY WITH THE OWNER'S REPRESENTATIVE, TO VERIFY EXACT TYPE OF EQUIPMENT TO BE INSTALLED, AND THE DIMENSIONS WHICH MAY EFFECT THE EXACT PLACEMENT OF ELECTRICAL WORK.
4. FURNISH AND INSTALL LAMPS AS WITH FIXTURES.
5. ALL WORK SHALL BE IN COMPLIANCE WITH NFPA 70, AND THE CITY OF MADISON LIGHTING ORDINANCE REQUIREMENTS.



LUMINAIRE SCHEDULE

Symbol	Label	Qty	Lum. Watts	Lum. Lumens	LLF	Arrangement	Description
□	A	8	147	22020	0.95	SINGLE	RSX2-LED-P3-40K-R4-MVOLT-SPA-DDBXD Mounted on 25" Sq Steel Pole
◻	B	3	244	31073	0.95	SINGLE	RSX2-LED-P6-40K-R5-MVOLT-SPA-DDBXD Mounted on 25" Sq Steel Pole
□	C	10	374	25667	0.95	SINGLE	RSX2-LED-P4-40K-R5-MVOLT-SPA-DDBXD Mounted on 25" Sq Steel Pole
◻	D	2	312	41525	0.95	SINGLE	RSX3-LED-P4-40K-R5-MVOLT-SPA-DDBXD Mounted on 25" Sq Steel Pole

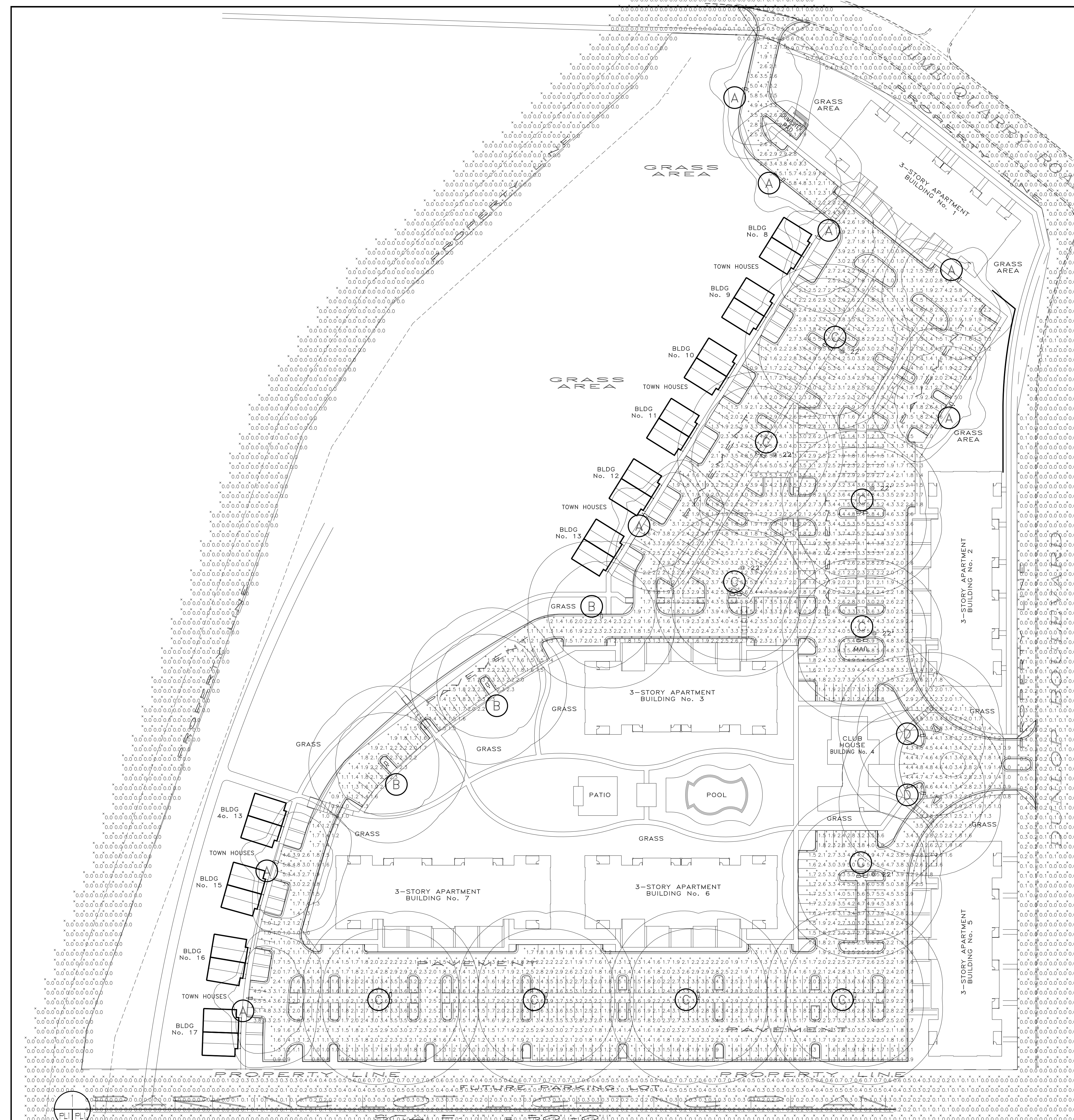
CALCULATION SUMMARY

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Parking and Driveways	ILLUMINANCE	Fc	2.5	6.1	0.8	3.1:1	7.6:1
Spillover	ILLUMINANCE	Fc	0.1	0.9	0.0	N.A.	N.A.



GRAPHIC SCALE: 1"=50'-0"

Sept. 20, 2021 - 05:39:51



REVISIONS BY

PROJECT TITLE: ROBERTS APARTMENTS INTER DUNLOP BLVD/IME QUARRY MADISON, ALABAMA

SHEET TITLE: PARKING LOT LIGHTING PLAN, NOTES AND LEGEND

STAMP: ASSOCIATED ENGINEERING SERVICES HUNTSVILLE, ALABAMA

DATE: SEP 2021

SCALE: 1"=50'-0"

DRAWN: N.A. Snow

JOB: P-21135

SHEET: 1 OF 1 SHEETS

DATE: SEP 2021

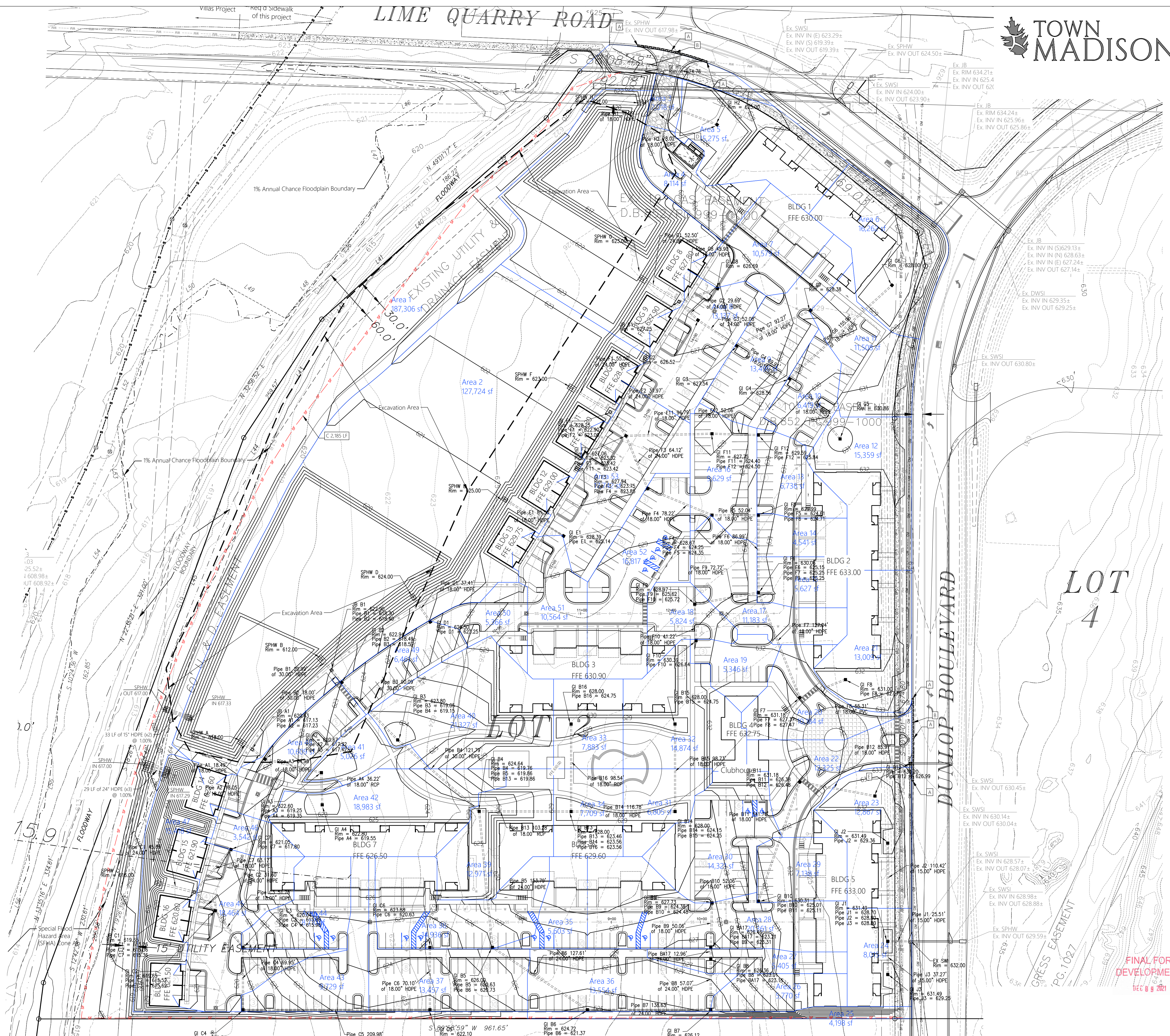
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DRAWN: N.A. Snow

JOB: P-21135

SHEET: 1 OF 1 SHEETS

LIME QUARRY ROAD



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CIVIL ENGINEERING, DEVELOPMENT DESIGN
SURVEYING, LANDSCAPE ARCHITECTURE
201 West Clinton Avenue, Suite 503, Huntsville, AL 35895
(256) 690-5312

REVISIONS	
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The Roberts Apartments at TM

Madison, AL

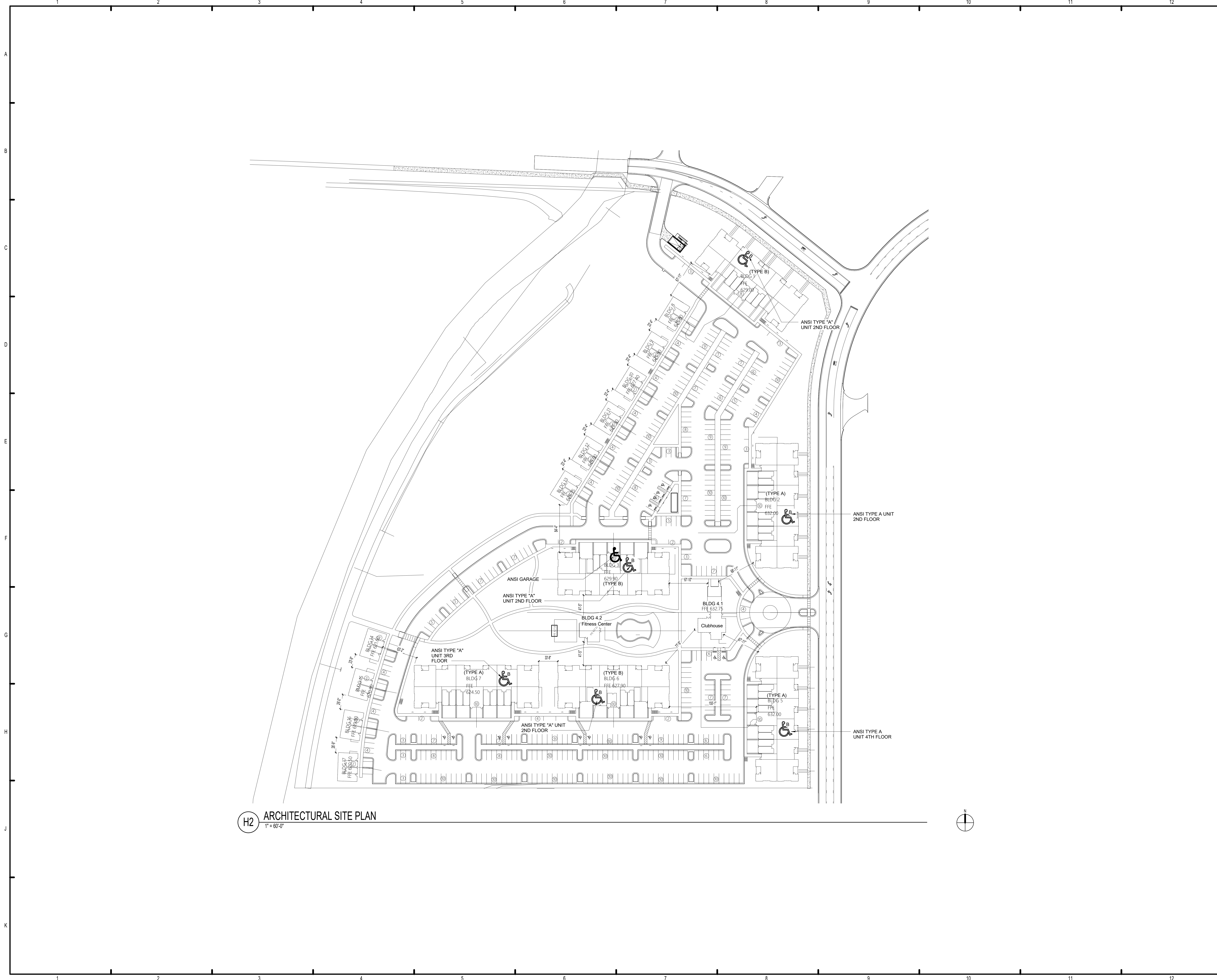
Post Development
Drainage Map

Job No: 19-177
Date: 2021 9-21
Drawn By: JLH
Checked By: RS

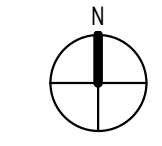
SHEET NUMBER

D2

FINAL FOR DEVELOPMENT
DEC 9 2021



H2 ARCHITECTURAL SITE PLAN
1" = 60'-0"



GENERAL NOTES:

- SEE CIVIL PLAN FOR PARKING SUMMARY.
- THIS SITE PLAN IS FOR ARCHITECTURAL INFORMATION ONLY. SEE CIVIL & LANDSCAPE DOCUMENTS FOR SPECIFIC BUILDING LOCATION & OTHER SITE REQUIREMENTS. SEE LANDSCAPE DRAWINGS UNDER SEPARATE COVER FOR SITE CONFIGURATION, LAYOUT, GRADING AND RELATED INFORMATION.
- THE SWIMMING POOL(S) SHOWN ON THE DRAWINGS ARE PROVIDED FOR GENERAL LOCATION AND SHAPE SUGGESTION PURPOSES ONLY. FUGLEBERG KOCH LLC IS NOT QUALIFIED TO PROVIDE SERVICES FOR POOLS AND MAKES NO ATTEMPT TO DO SO. POOL DESIGN DOCUMENTS FOR CONSTRUCTION, CODE COMPLIANCE, AGENCY APPROVALS, CONSTRUCTION CERTIFICATION AND OTHER SERVICES REQUIRED FOR THE POOL(S) SHALL BE PERFORMED BY OTHERS UNDER THE SEPARATE CONTRACT WITH THE OWNER.

LEGEND:

- M.C METER CENTER, APROX 2000 AMP LOAD PER NEC
- DESIGNATED ANSI TYPE 'A' UNIT
- DESIGNATED ACCESSIBLE GARAGE

ISSUE HISTORY

No.	Date	Description
1	04/15/2022	PERMIT SUBMITTAL

REVISION HISTORY

No.	Date	Description

FUGLEBERG KOCH

2555 Temple Trail, Winter Park, FL 32789 (407) 629-0595
www.fuglebergkoch.com AA26002103

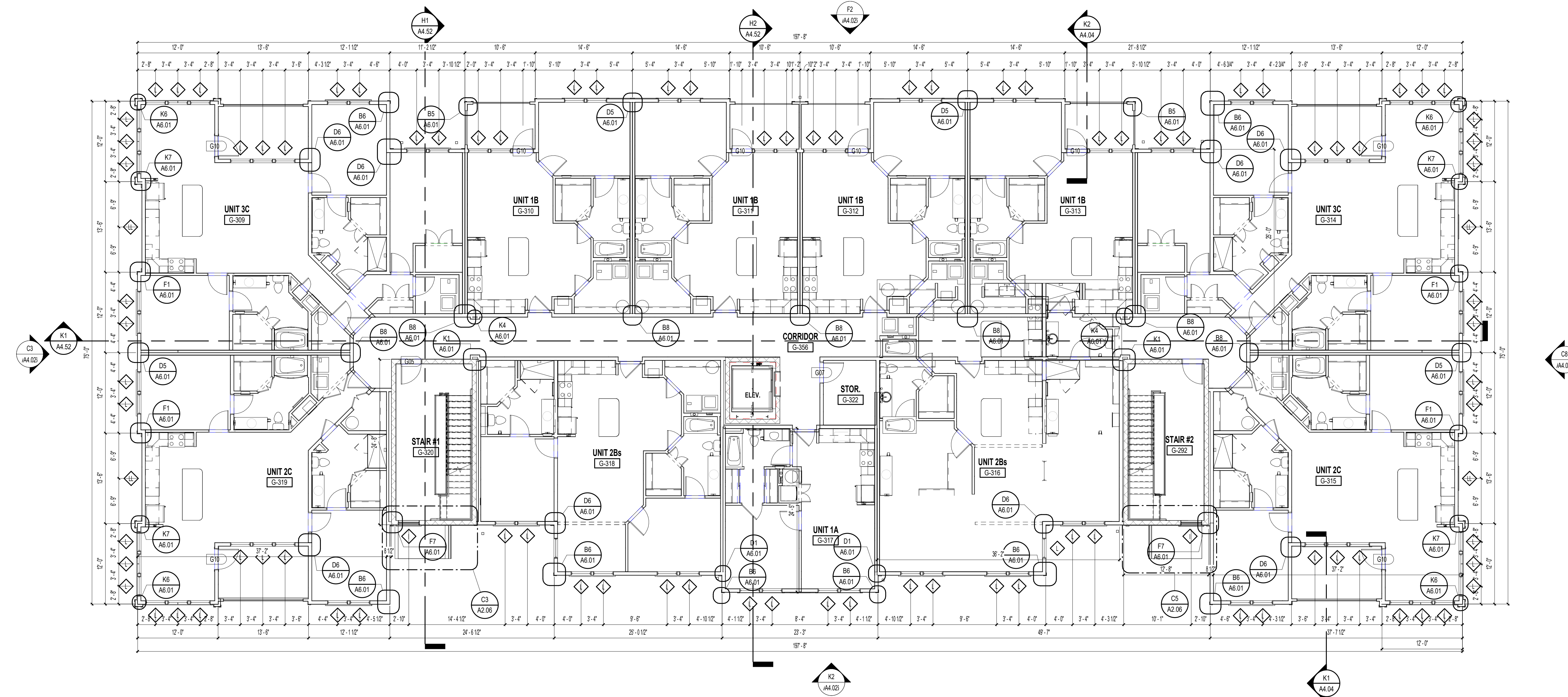
CONSULTANT

MICHAEL DOVE
PEM

Drawn	MB
Checked	JK
Approval	MS
Date	04/15/2022
Project #	572

ARCHITECTURAL SITE PLAN

A1.01



E3 BLDG. TYPE B - 2ND LEVEL PLAN
1/8" = 1'-0"

FLOOR PLAN NOTES:

01. EXTERIOR DIMENSIONS ARE FROM EXTERIOR FACE OF STUD TO EXTERIOR FACE OF STUD. WHEN A TENANT WALL OCCURS, DIMENSIONS ARE TAKEN TO THE CENTERLINE. ALL OTHER DIMENSIONS ARE FROM OUTSIDE FACE OF STUD UNLESS NOTED OTHERWISE. SEE UNIT PLANS FOR FURTHER DIMENSIONS.
02. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
03. SEE A300 SERIES SHEETS FOR UNIT PLAN INFORMATION.
04. CONTRACTOR TO COORDINATE FLOOR & CEILING CONTROL JOINT PLACEMENT COMMON AREA AT 8'-0" MAX ON CENTER WHERE POSSIBLE.
05. SEE CIVIL PLANS FOR ACTUAL FINISH FLOOR ELEVATIONS.
06. REFER TO CIVIL DWGS. FOR SIDEWALK CONDITIONS.
07. REFER TO ELEVATIONS AND FLOOR PLANS FOR WINDOW TYPES AND LOCATIONS.

ISSUE HISTORY

No.	Date	Description
1	04/15/2022	PERMIT SUBMITTAL

REVISION HISTORY

No.	Date	Description

FUGLEBERG KOCH
 2555 Temple Trail, Winter Park, FL 32789 (407) 629-0595
 www.fuglebergkoch.com AA26002103

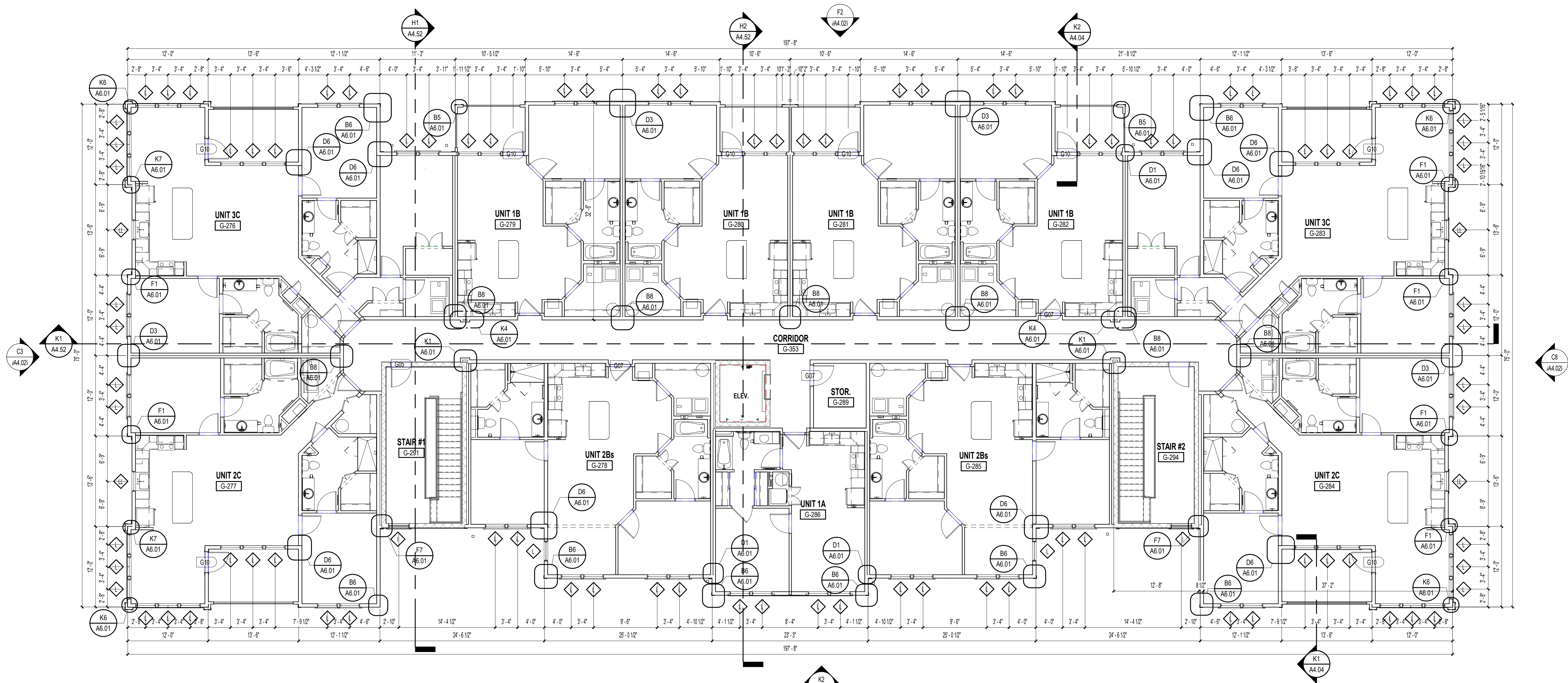


MICHAEL DOVE
 R204

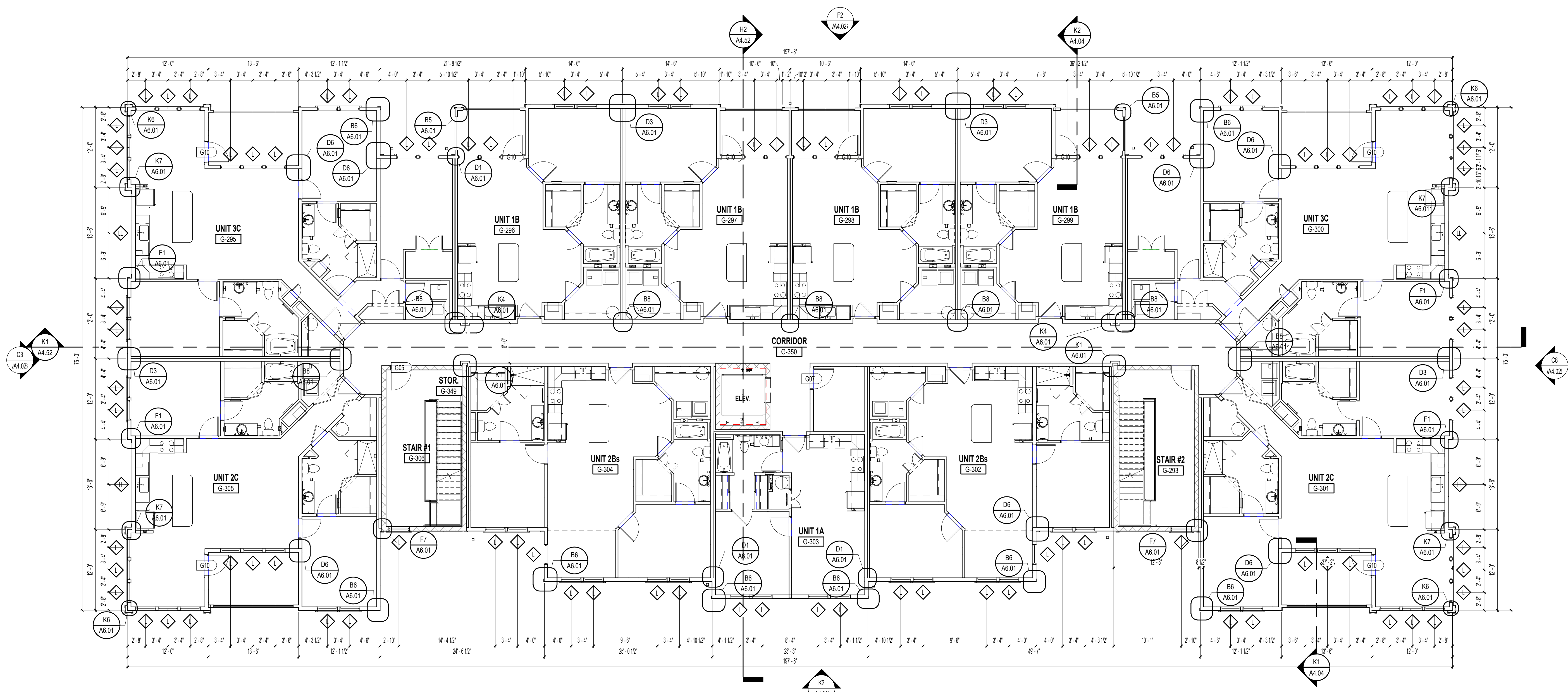
THE ROBERT MADISON	Drawn: MB
MADISON, ALABAMA	Checked: JK
	Approval: MS
	Date: 04/15/2022
	Project #: 572

BUILDING TYPE B - GROUND & 2ND LEVEL PLANS

A2.04



E3 BLDG. TYPE B - 4TH LEVEL PLAN
1/8" = 1'-0"



K2 BLDG. TYPE B - 3RD LEVEL PLAN
1/8" = 1'-0"

FLOOR PLAN NOTES:

01. EXTERIOR DIMENSIONS ARE FROM EXTERIOR FACE OF STUD TO EXTERIOR FACE OF STUD. WHEN A TENANT WALL OCCURS, DIMENSIONS ARE TAKEN TO THE CENTERLINE. ALL OTHER DIMENSIONS ARE FROM OUTSIDE FACE OF STUD UNLESS NOTED OTHERWISE. SEE UNIT PLANS FOR FURTHER DIMENSIONS.
02. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
03. SEE A300 SERIES SHEETS FOR UNIT PLAN INFORMATION.
04. CONTRACTOR TO COORDINATE FLOOR & CEILING CONTROL JOINT PLACEMENT COMMON AREA AT 6'-0" MAX ON CENTER WHERE POSSIBLE.
05. SEE CIVIL PLANS FOR ACTUAL FINISH FLOOR ELEVATIONS.
06. REFER TO CIVIL DWGS. FOR SIDEWALK CONDITIONS.
07. REFER TO ELEVATIONS AND FLOOR PLANS FOR WINDOW TYPES AND LOCATIONS.

ISSUE HISTORY

No.	Date	Description
1	04/15/2022	PERMIT SUBMITTAL

REVISION HISTORY

No.	Date	Description

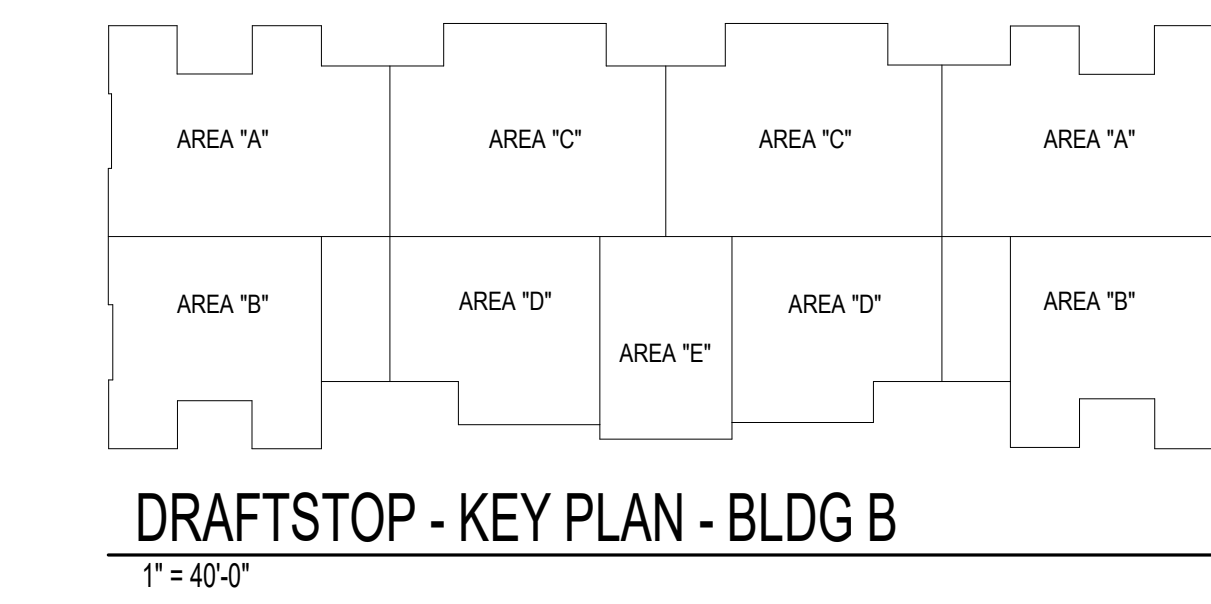
FUGLEBERG KOCH
2555 Temple Trail, Winter Park, FL 32789 (407) 629-0595
www.fuglebergkoch.com AA26002103

CONSULTANT
STATE OF ALABAMA
PROFESSIONAL ENGINEER
8234
4/15/22
REGISTERED ARCHITECT
MICHAEL GOVE
SEA

THE ROBERT MADISON
MADISON, ALABAMA
Drawn: MB
Checked: JK
Approval: MS
Date: 04/15/2022
Project #: 572

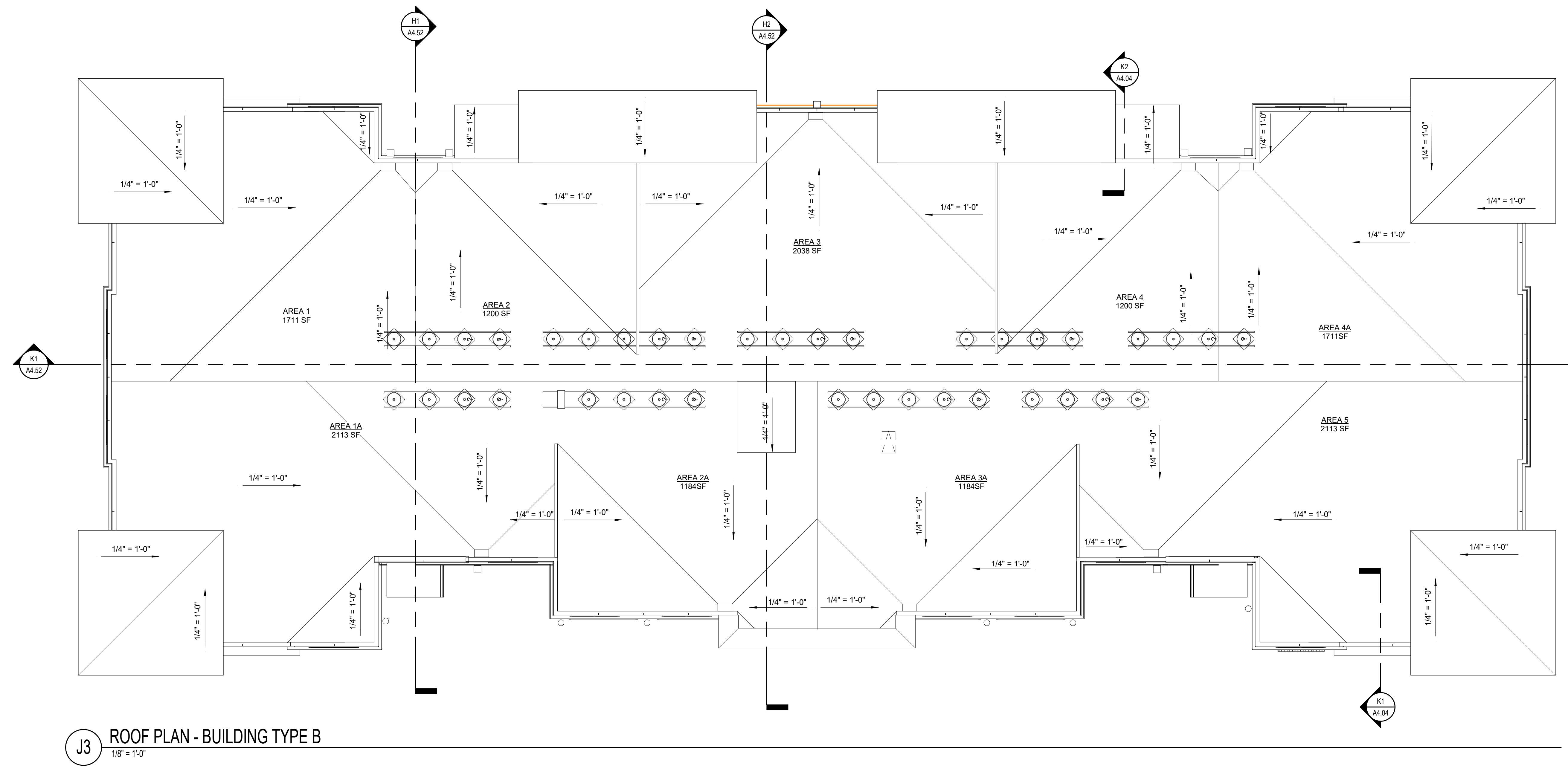
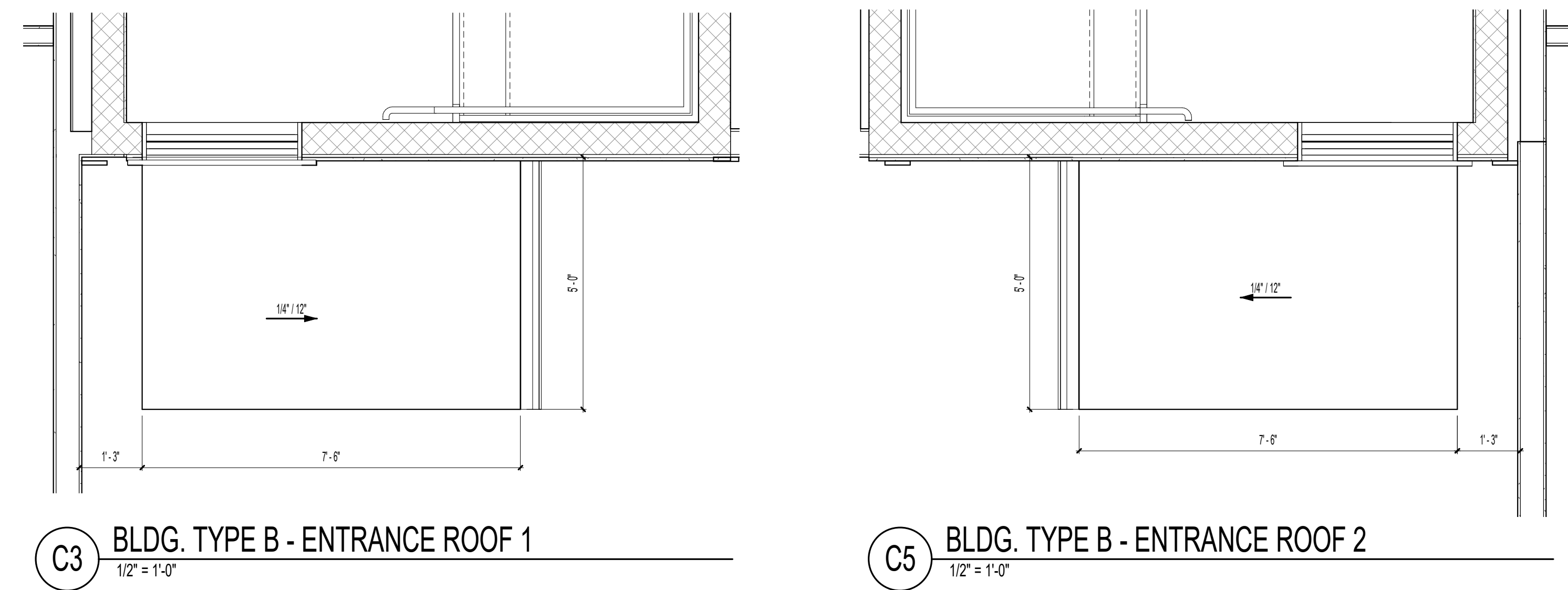
BUILDING TYPE B - 3RD & 4TH LEVEL PLANS

A2.05



- GENERAL NOTES:**
1. PAINT ALL ROOF VENTS & PENETRATIONS TO MATCH ROOF SHINGLE COLOR
 2. COORDINATE DOWNSPOUT DISCHARGE WITH CIVIL DRAWINGS. WHERE NOT TAKEN TO STORM, PROVIDE SPLASH BLOCK.
 3. LEAVE OPENING IN MAIN ROOF SHEATHING FOR VENTILATION UNDERNEATH OVER BUILT AREAS.
 4. DOWNSPOUTS AND GUTTERS SHOWN ARE MIN REQUIREMENTS SUBJECT TO OWNER'S CONSIDERATIONS
 5. CONTRACTOR SHALL BE RESPONSIBLE TO MEET MINIMUM ROOF VENT REQUIREMENTS
 6. GENERAL CONTRACTOR SHALL COORDINATE ALL ROOF ACCESSORIES INSTALLATION DETAILS PER MANUFACTURERS SPECS TO MAINTAIN THE WATERTIGHT SYSTEM & EXTENDED WARRANTY
 7. SEE CIVIL SITE PLAN FOR BUILDING ORIENTATION, CARDINAL DIRECTIONS SHOWN FOR REFERENCE ONLY

- LEGEND:**
- - - DRAFTSTOPPING TO UNDERSIDE OF ROOF DECK
 - [Symbol] 1HR. FIRE RATED (if required) ATTIC ACCESS PANEL, MIN. 22"x36". COORDINATE WITH ROOF TRUSSES
 - [Symbol] OFF RIDGE VENT. SEE VENT SCHEDULE
 - [Symbol] ICE & WATER SHIELD / SELF-ADHERED MEMBRANE UNDER ROOF FELT, 24" BACK FROM FACE OF EXTERIOR WALL TO EDGE OF EYE AND 24" WIDE @ ALL RAKES, RIDGES, VALLEYS, HIPS, FLASHING AND UNDER ALL SHINGLE ROOFS LESS THAN 4:12' SLOPE
 - D.S. DOWNSPOUT



ISSUE HISTORY

No.	Date	Description
1	04/15/2022	PERMIT SUBMITTAL

REVISION HISTORY

No.	Date	Description

FUGLEBERG KOCH
 2555 Temple Trail, Winter Park, FL 32789 (407) 629-0595
 www.fuglebergkoch.com AA26002103

CONSULTANT

MICHAEL DOVE
 SEA

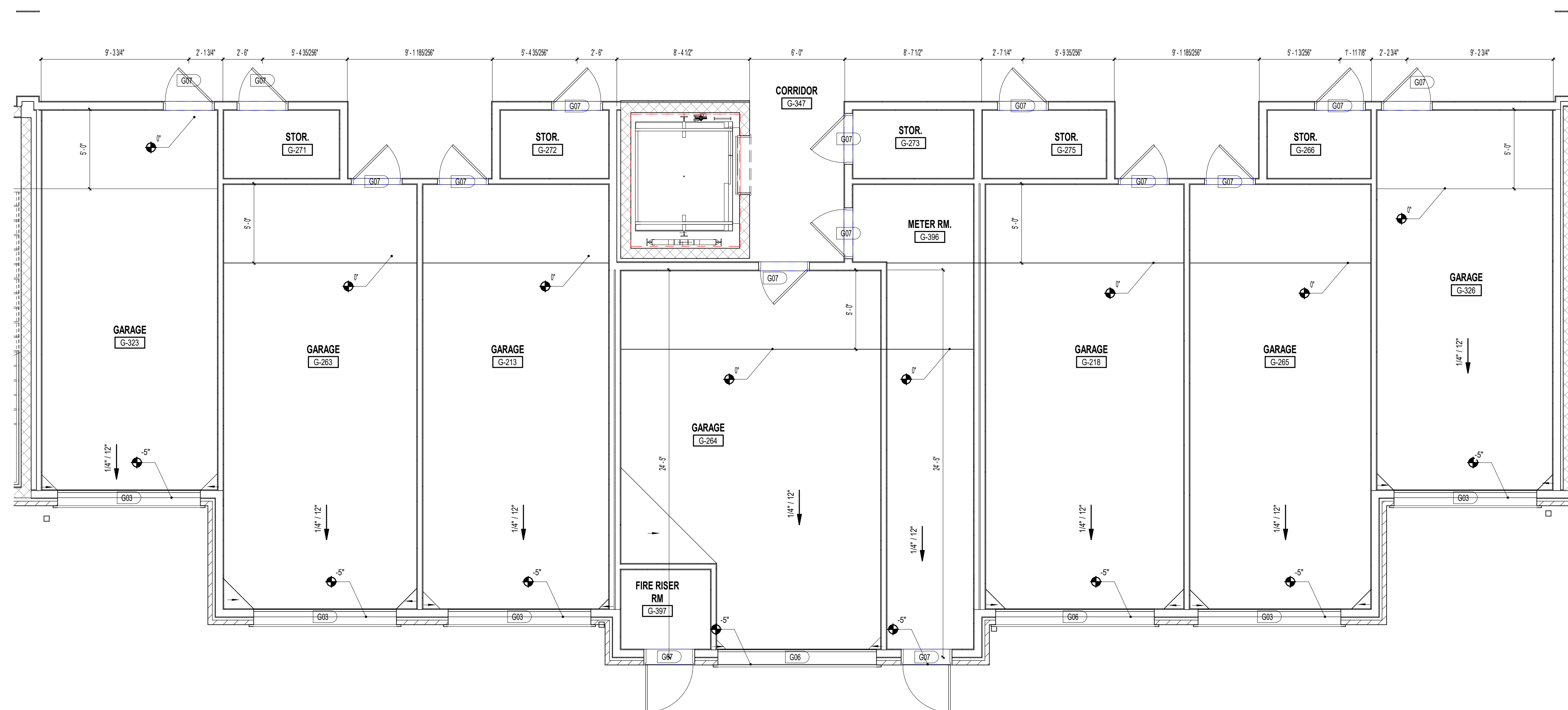
THE ROBERT MADISON
 MADISON, ALABAMA

Drawn	MB
Checked	JK
Approval	MS
Date	04/15/2022
Project #	572

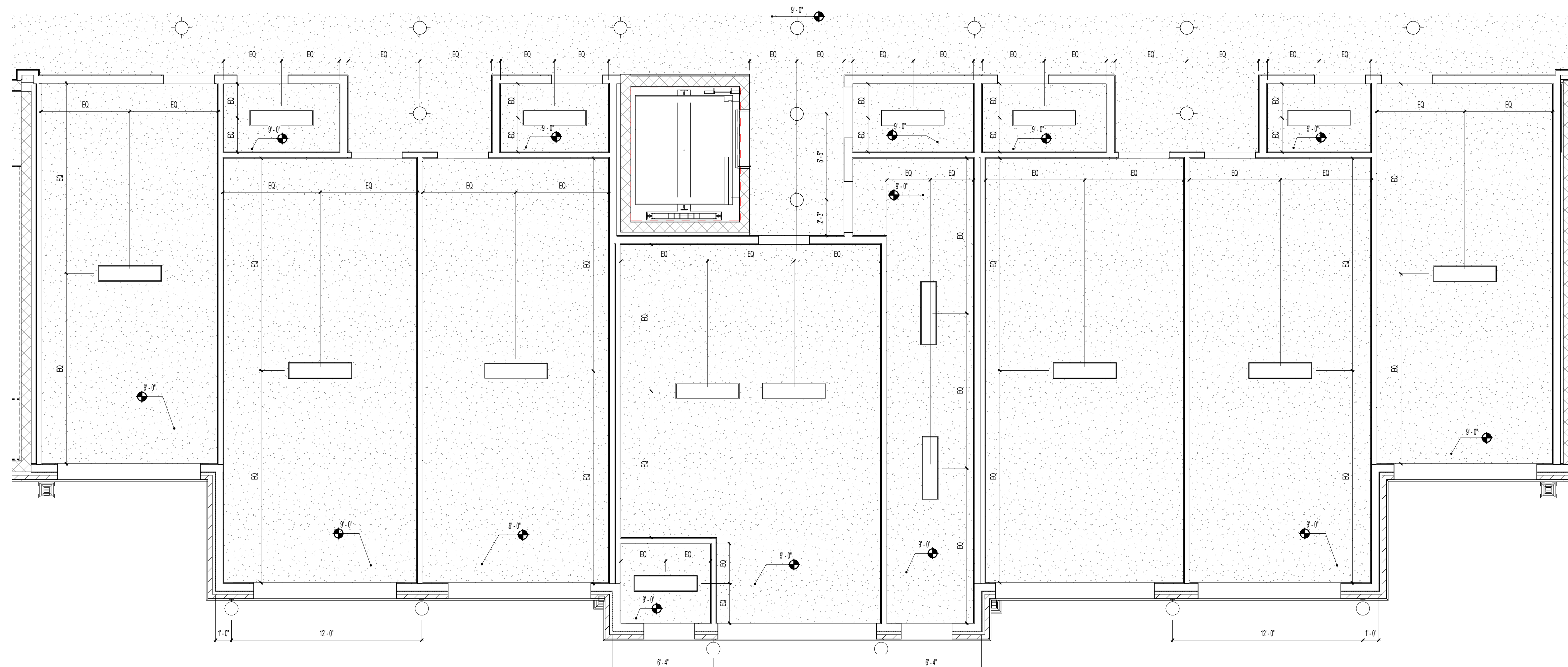
BUILDING TYPE B - ROOF PLAN

A2.06

PLOTTED: 03/02/22 3:20:23 PM



E1 ENLARGED GARAGE PLAN 1 - BUILDING TYPE B
1/4" = 1'-0"



K1 ENLARGED GARAGE RCP PLAN 1 - BUILDING TYPE B
1/4" = 1'-0"

GENERAL NOTES:

- A. ALL DIMENSIONS ARE FROM OUTSIDE FACE OF STUD UNLESS NOTED OTHERWISE. SEE UNIT PLANS FOR FURTHER DIMENSIONS.
- B. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- C. ALL INTERIOR WALLS ARE 2X4 UNLESS OTHERWISE NOTED. SEE STRUCTURAL FOR SPACING. REFER TO LIFE SAFETY FOR ASSEMBLY TYPES.

RCP LEGEND

- NOTE: RCP DIMS ARE FROM FINISH FACE OF WALL
- 98" FR GYP BD CEILING ON RC CHANNEL - 9'-0" AFF U.N.O.
 - EXIT LIGHT
 - RECESSED CAN LIGHT
 - CEILING MOUNTED LIGHT
 - EXTERIOR CEILING MOUNTED LIGHT
 - SPRINKLER HEAD - CEILING MOUNTED
 - SPRINKLER HEAD - WALL MOUNTED
 - SMOKE DETECTORS
 - FLORESCENT STRIP LIGHT
 - COMBINATION AUDIBLE / VISUAL DEVICE - FIRE ALARM
 - CEILING FAN
 - FIXTURE VANITY LIGHT - WALL MOUNTED
 - EXTERIOR LIGHT - WALL MOUNTED
 - EXHAUST FAN - CEILING MOUNTED
 - SQUARE SUPPLY DIFFUSER - CEILING MOUNTED
 - SQUARE RETURN DIFFUSER - CEILING MOUNTED
 - SQUARE SUPPLY DIFFUSER - CEILING MOUNTED
 - SUPPLY DIFFUSER - WALL MOUNTED
 - EXHAUST FAN - WALL MOUNTED
 - THRU-WALL GRILL
 - ATTIC ACCESS PANEL

ISSUE HISTORY

No.	Date	Description
1	04/15/2022	PERMIT SUBMITTAL

REVISION HISTORY

No.	Date	Description

FUGLEBERG KOCH
 2555 Temple Trail, Winter Park, FL 32789 (407) 629-0595
 www.fuglebergkoch.com AA26002103

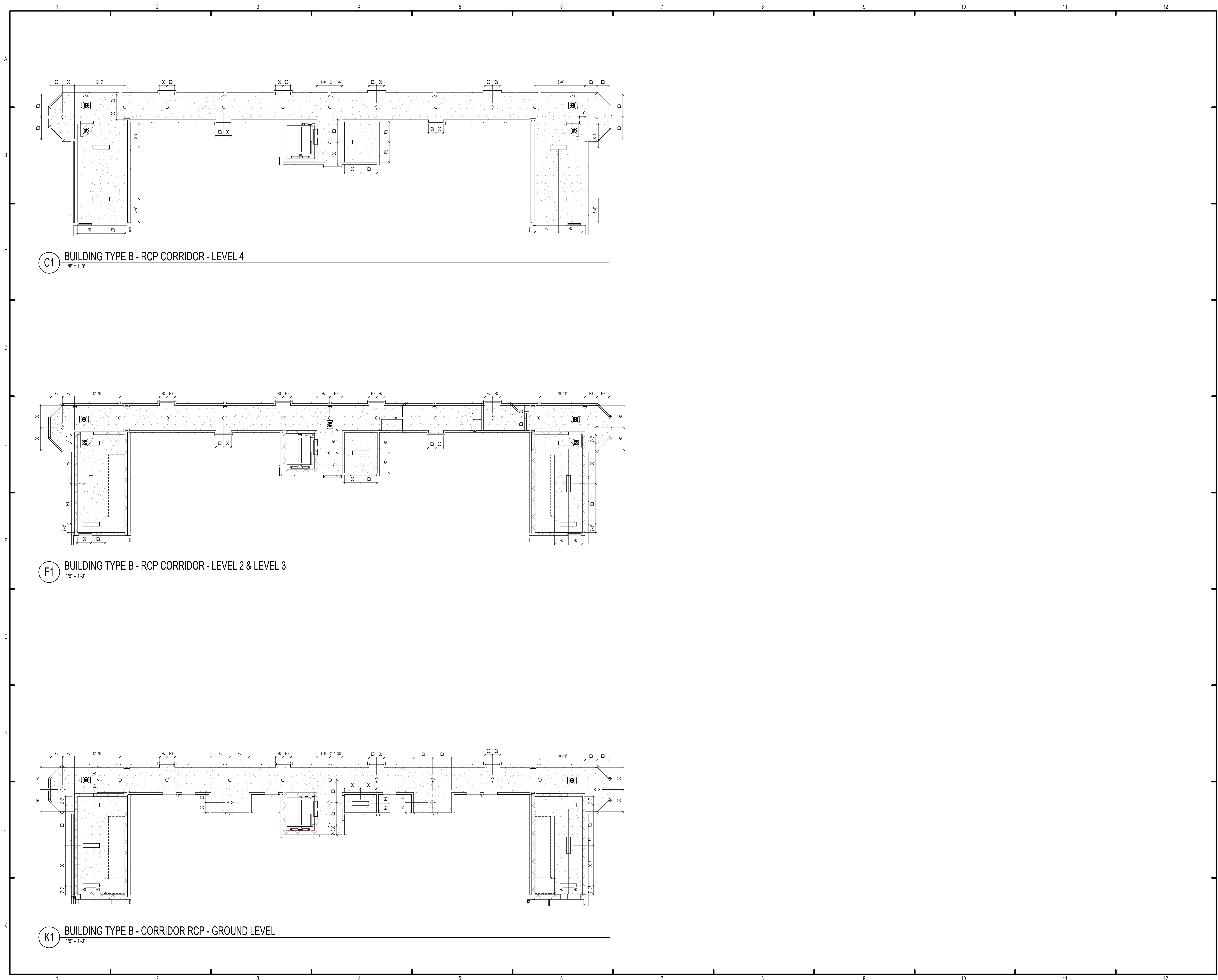
CONSULTANT

 MICHAEL DOVE
 SEA

THE ROBERT MADISON	Drawn: MB
	Checked: JK
	Approval: MS
MADISON, ALABAMA	Date: 04/15/2022
	Project #: 572

BLDG B - ENLARGED GARAGE PLAN

A2.19



C1 BUILDING TYPE B - RCP CORRIDOR - LEVEL 4
1/8" = 1'-0"

F1 BUILDING TYPE B - RCP CORRIDOR - LEVEL 2 & LEVEL 3
1/8" = 1'-0"

K1 BUILDING TYPE B - CORRIDOR RCP - GROUND LEVEL
1/8" = 1'-0"

GENERAL NOTES:

- A. ALL DIMENSIONS ARE FROM OUTSIDE FACE OF STUD UNLESS NOTED OTHERWISE. SEE UNIT PLANS FOR FURTHER DIMENSIONS.
- B. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- C. SEE A300 SERIES SHEETS FOR UNIT PLAN INFORMATION.

RCP LEGEND

NOTE: RCP DIMS ARE FROM FINISH FACE OF WALL

- 5/8" FR GYP BD CEILING ON RC CHANNEL - 9'-0" AFF U.N.O.
- EXIT LIGHT
- EXIT LIGHT TYPE 2
- EMERGENCY LIGHT - SIDEWALL
- CEILING MOUNTED LIGHT
- SPRINKLER HEAD - CEILING MOUNTED
- EXTERIOR CEILING MOUNTED LIGHT
- FLUORESCENT STRIP LIGHT
- ATTIC ACCESS PANEL

ISSUE HISTORY

No.	Date	Description
1	04/15/2022	PERMIT SUBMITTAL

REVISION HISTORY

No.	Date	Description



2555 Temple Trail, Winter Park, FL 32789 (407) 629-0595
www.fuglebergkoch.com AA26002103

CONSULTANT



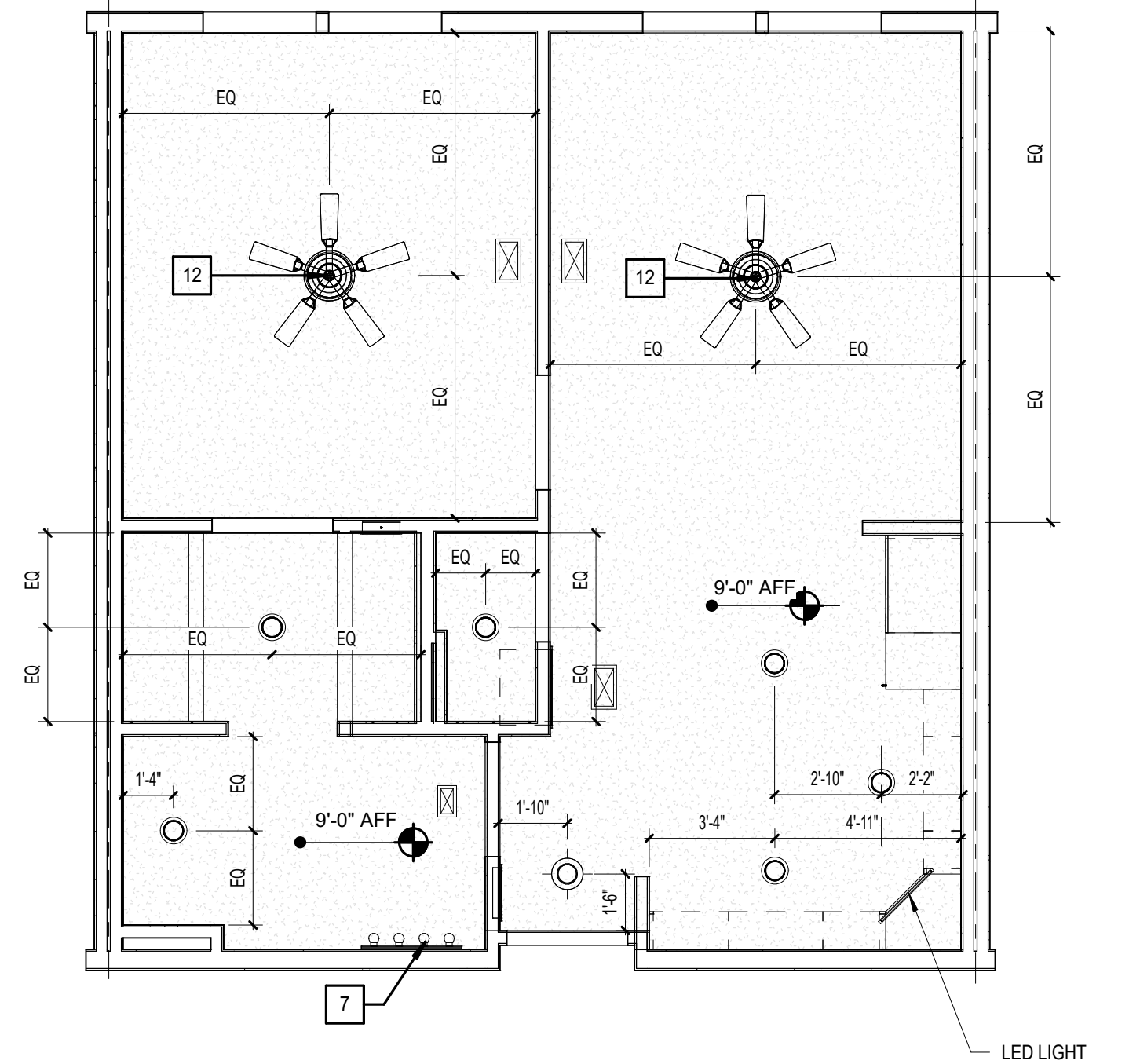
MICHAEL GOVE
SEA

THE ROBERT MADISON
MADISON, ALABAMA

Drawn	MB
Checked	JK
Approval	MS
Date	04/15/2022
Project #	572

BUILDING TYPE B - CORRIDOR RCP

A2.22



C1 UNIT 1A - RCP
1/4" = 1'-0"

RCP LEGEND - UNITS	
	SMOKE DETECTOR
	LED FLUSH MOUNT - INTERIOR / EXTERIOR
	LED WALL MOUNT - INTERIOR
	PENDANT - CEILING MOUNTED
	LIGHT - WALL MOUNTED
	CEILING FAN - WITH LIGHT KIT
	MULTI FIXTURE VANITY LIGHT - WALL MOUNTED
	LED UNDER CABINET DOWNLIGHT
	SQUARE SUPPLY DIFFUSER - CEILING MOUNTED
	SQUARE RETURN DIFFUSER - CEILING MOUNTED
	SUPPLY DIFFUSER - WALL MOUNTED
	RETURN DIFFUSER - WALL MOUNTED
	ADA HORN/STROBE DEVICE - WALL MT.
	GYPSUM BOARD CEILING @ 9'-0"

NOTES:
1. RCP DIMS SHOWN ARE FROM FACE OF FINISH.
2. ALIGN UNDER CABINET LIGHTS WITH THE CENTER OF THE CABINET ABOVE.

LEGEND:	
	CLEAR FLOOR SPACE
	LEVEL CHANGE
	DENOTES BATHROOM ACCESSORY/KITCHEN APPLIANCE
	BATT INSULATION
	DENOTES BLOCKING FOR FUTURE GRAB BARS. REFER TO FHA CLEARANCES FOR MORE INFO.
	ELEVATION
	PLAN

BATH & KITCHEN LEGEND: (X)

- 18" TOWEL BAR
- TOILET TISSUE HOLDER
- CURVED SHOWER ROD
- MEDICINE CABINET
- MIRROR
- HAND TOWEL RING
- SOAP DISH
- RECESSED CABINET ABOVE W.C. CONSTRUCTION
- 24" TOWEL BAR
- GRAB BAR REINFORCEMENT, BTWN 2'-6" MAX. A.F.F. & 3'-2" MIN. A.F.F. (GRAB BARS TO BE INSTALLED IN ALL ANSI TYPE 'K' UNITS)
- SHOWER HEAD
- WATER CLOSET STD. HT.
- LIGHT FIXTURE (SEE ELECTRICAL)
- SINK
- MICROWAVE
- RANGE
- DISHWASHER
- REFRIGERATOR
- OVEN
- ANSI OVEN
- VANITY CABINET W/SINK
- 32" TUB
- 24" TUB
- EXHAUST FAN
- 32" TUB
- 6x6 TILE
- HAND HELD/FIXED SHOWER SPRAY UNIT WHOSE 60" MIN. LONG AND ADJUSTABLE BAR
- REMOVABLE IN TUB SEAT
- FIBERGLASS TUB W/ TILE SURROUND
- GLASS SHOWER ENCLOSURE W/ TILE WALLS & ACRYLIC PRE-FABRICATED PAN.

UNIT 1A - Total Gross Area Schedule					
Name	Area	Bedrooms	Baths	Den	Occupants
UNIT 1A	580 SF	1	1		
580 SF					

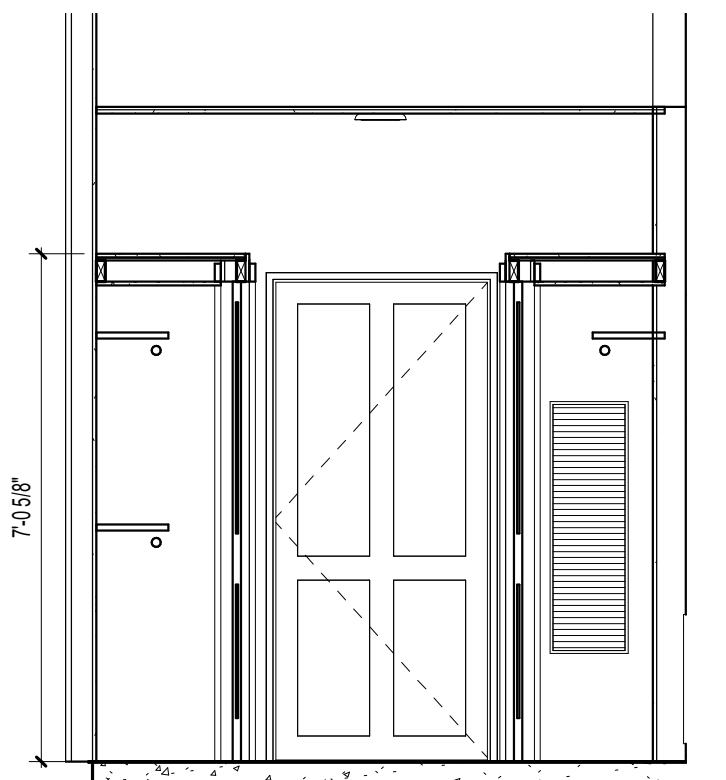
UNIT 1A - Total Net Area					
Name	Area	Bedrooms	Baths	Den	
UNIT 1A	543 SF	1	1		
543 SF					

GENERAL NOTES:

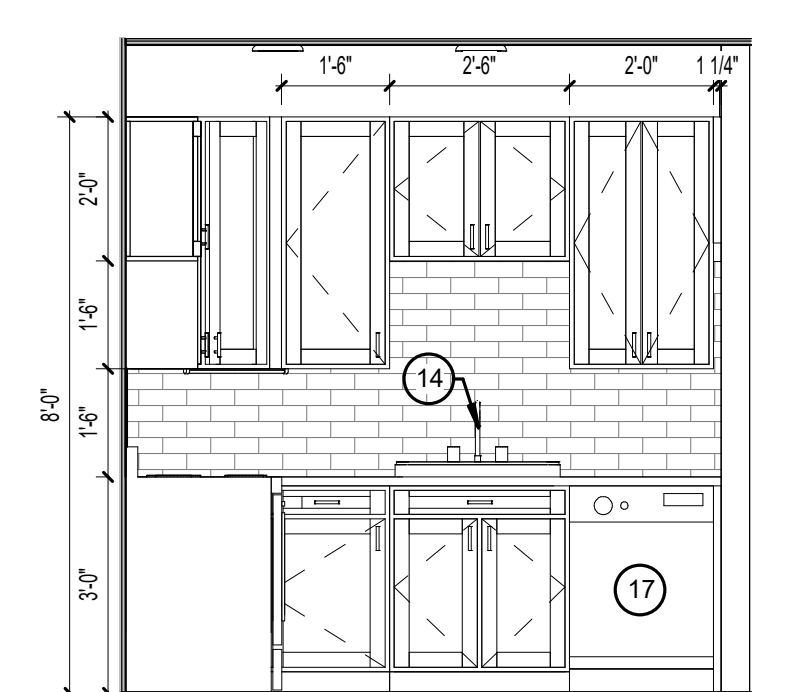
- ALL DIMENSIONS ARE FROM OUTSIDE FACE OF STUD UNLESS NOTED OTHERWISE.
- REFER TO EXTERIOR ELEVATIONS AND BUILDING PLANS FOR WINDOW TYPE.
- CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- REFER TO A3.30 - A3.52 FOR BALCONY PLANS SPECIFIC TO EACH UNIT AS IT OCCURS THROUGHOUT.
- ALL PLUMBING WALLS NEED TO BE COORDINATED WITH PLUMBER TO DETERMINE 2X4 OR 2X6 CONSTRUCTION.
- PROVIDE ONE 4-A, 10-B-C 5 lb FIRE EXTINGUISHER PER UNIT. LOCATE PER FIRE DEPARTMENT REQUIREMENTS.
- PROVIDE ACOUSTICAL UNDERLAYMENT UNDERNEATH VINYL PLANK FLOORING LOCATIONS WITHIN UNITS ON ELEVATED FLOORS. REFER TO SPECIFICATIONS FOR APPROVED PRODUCT.
- PROVIDE DISPOSER AT ALL KITCHEN SINKS. REFER TO PLANS FOR AIR SWITCH LOCATION. PLACE ON SAME SIDE AS DISPOSER.
- CLOSET RODS:
 - 12" DEEP, TOP OF SHELVING IN CLOSETS SHALL BE AT 5'-0" AND 6'-0". SEE PLANS.
 - 12" DEEP SHELVING AT PANTRIES & LINEN CLOSETS. 5 SHELVES EQUALLY SPACED @ 13" A PART (18" 22" 27" 32" AND 37").
 - PROVIDE (5) 18" X 12" DEEP LINEN SHELVES EQUALLY SPACED AT BEDROOM/CLOSET ENDS WHERE INDICATED.
 - SHELVING AT LAUNDRY ROOMS - 24" DEEP @ 3'-7" SHELVING AT ENTRY CLOSETS - 12" DEEP @ 6'-0".
- KITCHEN OUTLETS SHALL BE SPACED PER NEC. FHA REQUIRES THAT OUTLETS BE PLACED NO LESS THAN 3'-0" FROM THE CORNER UNLESS AN ADDITIONAL OUTLET IS ADDED. KITCHEN ELEVATIONS INDICATE APPROXIMATE DIMENSIONS NEEDED TO MEET BOTH NEC AND FHA. 4'-0" O.C. MAX. BETWEEN OUTLETS SHALL BE PROVIDED AROUND A CORNER.
- SEE SHEET A3.10 FOR STANDARD MOUNTING HEIGHTS AND DETAILS.
- PROVIDE WINDOW-EASE OPENING DEVICE AT ACCESSIBLE UNIT OPERABLE WINDOWS (WWW.WINDOWEASE.COM).

UNIT KEYNOTES: (X)

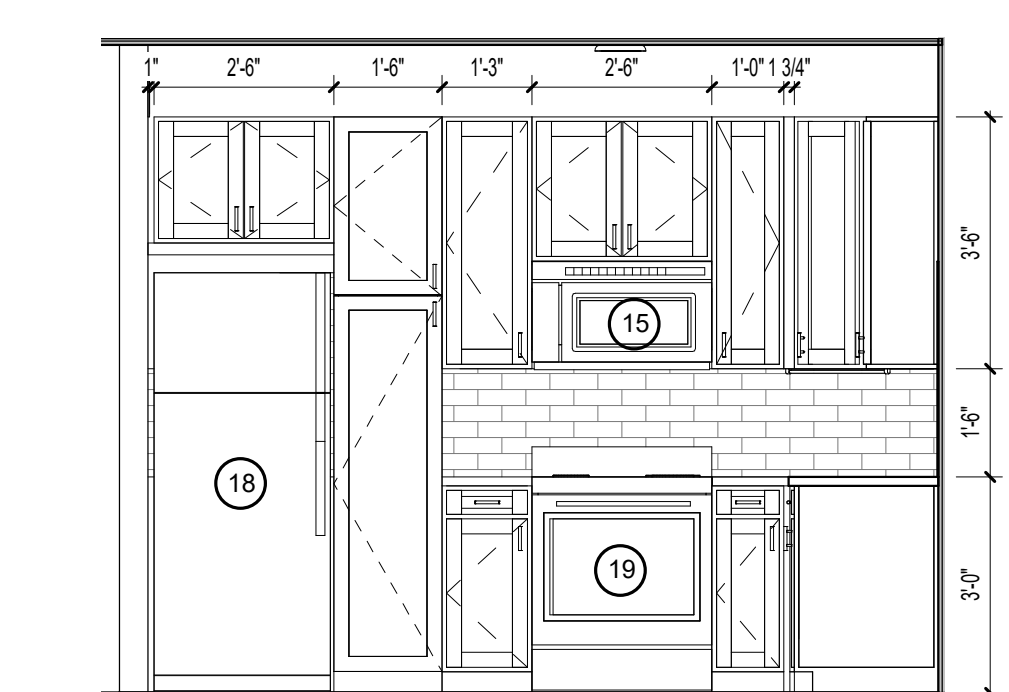
- ELECTRICAL PANEL. REFER TO ELECTRICAL DWGS.
- HVAC UNIT. SEE MECHANICAL DRAWINGS.
- WIRE SHELF & POLE @ 6'-0"
- WIRE SHELF @ 3'-4" & 6'-0" AFF.
- SHELF ABOVE WASHER @ 5'-6" AFF.
- MAINTAIN MIN. 3'-0" CLEAR BETWEEN FINISHES AND FURNITURE. TYP.
- CENTER LIGHTING FIXTURE ABOVE LAVATORY.
- WASHER BOX.
- DRYER VENT.
- COMBO WASHER / DRYER BOX.
- MOVABLE KITCHEN ISLAND.
- PROVIDE FAN RATED REINFORCED J-BOX.
- ATTIC ACCESS. TOP FLOOR UNITS ONLY.
- WATER HEATER. SEE PLUMBING DRAWINGS.
- ACCESS PANEL FOR MECH. UNIT.
- FRAMELESS MIRROR.
- WASHER.
- DRYER.
- STACKED WASHER/DRYER COMBO.
- ICE MAKER CONNECTION.



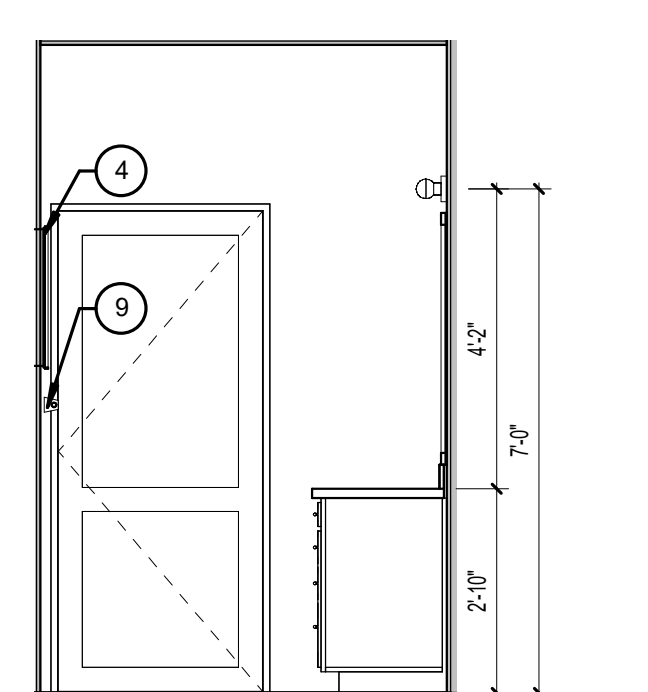
G5 WALK-THRU CLOSET SECTION
3/8" = 1'-0"



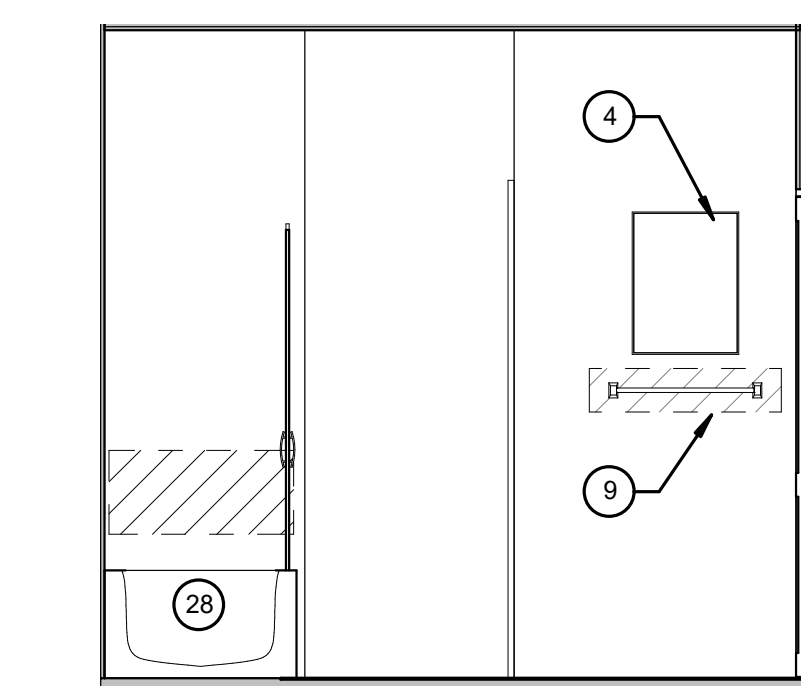
H3 UNIT A1 - ENLARGED ELEVATION
3/8" = 1'-0"



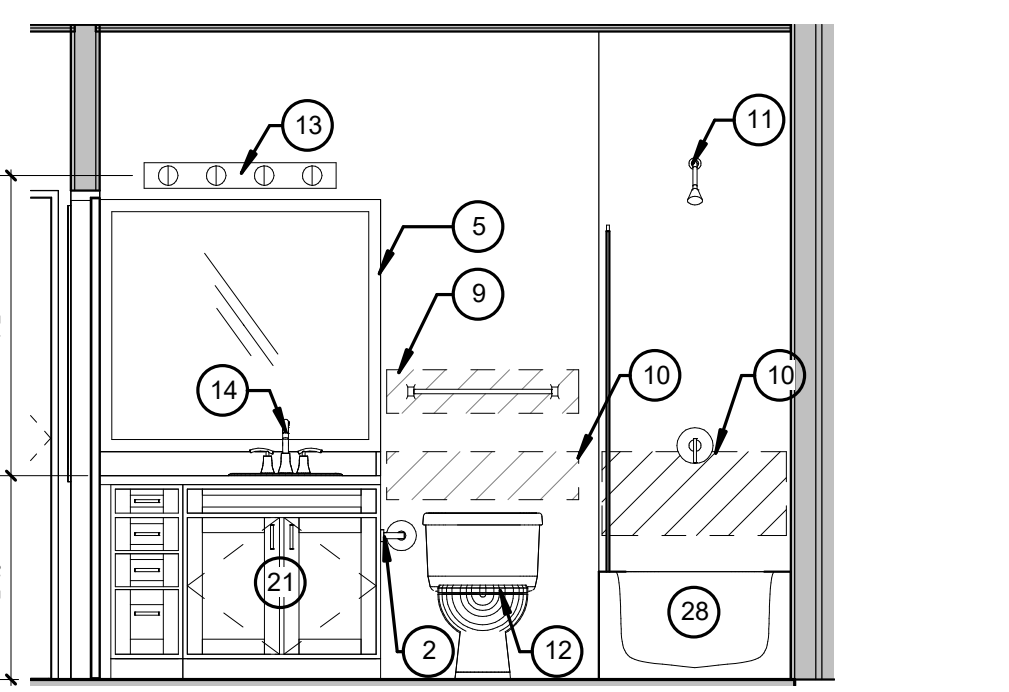
H2 TYPICAL KITCHEN -1A
3/8" = 1'-0"



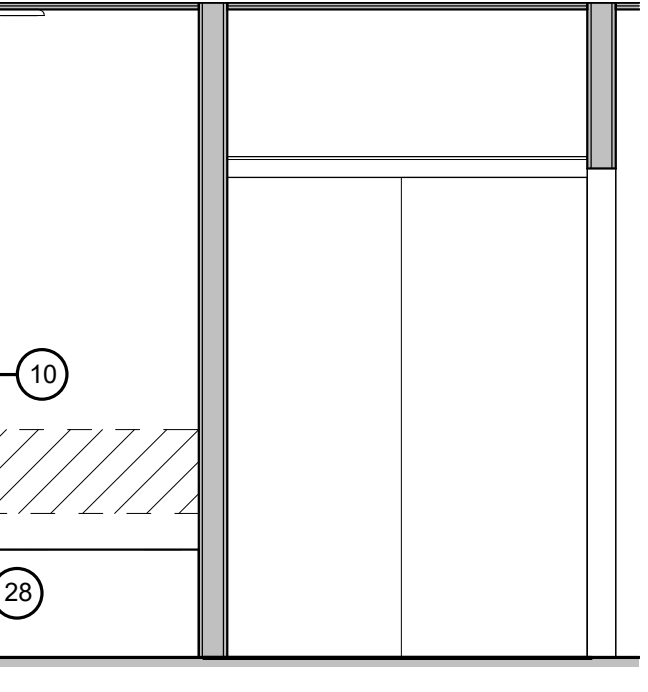
H1 UNIT A1 - ENLARGED ELEVATION
3/8" = 1'-0"



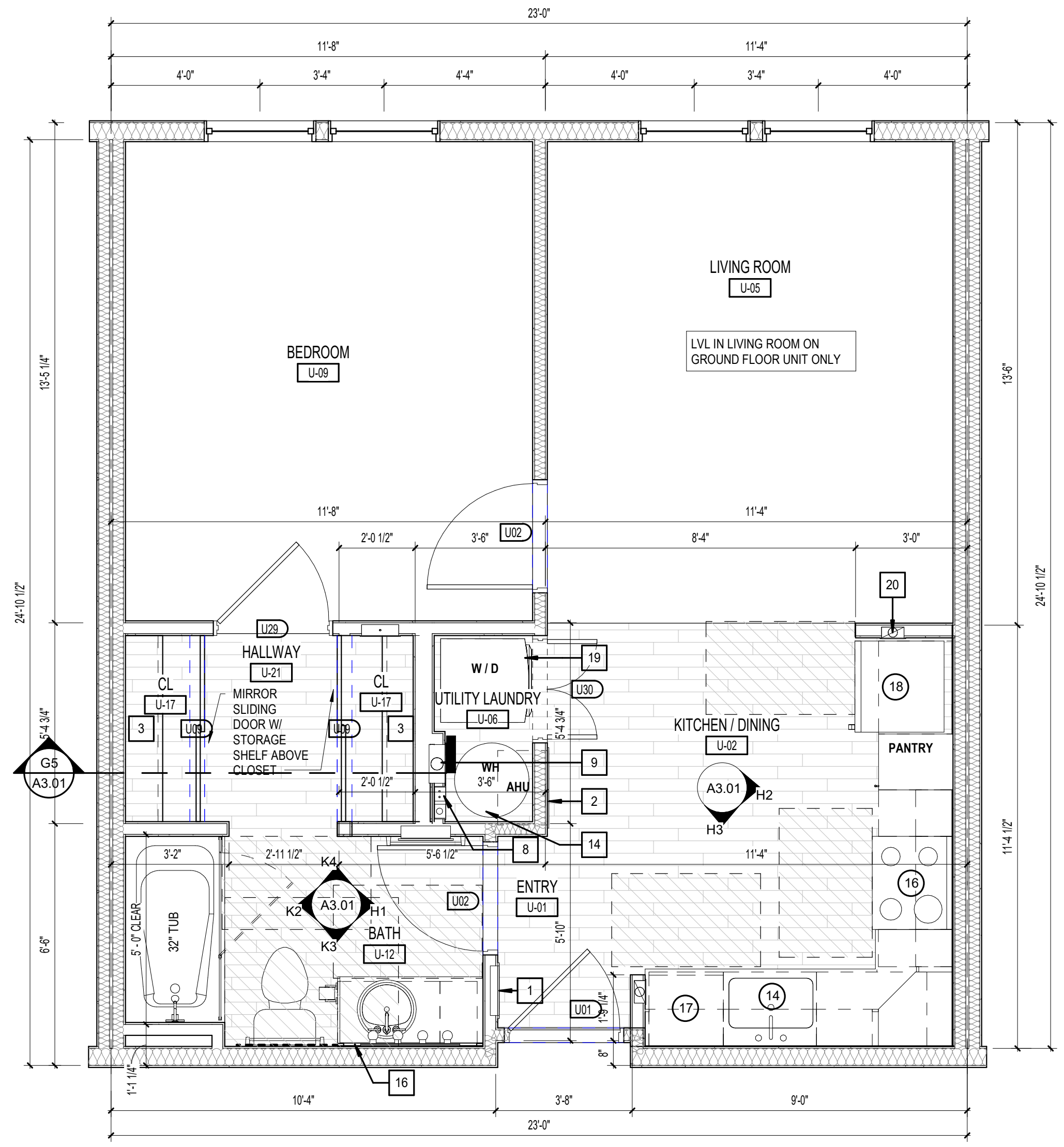
K4 UNIT A1 - ENLARGED ELEVATION
3/8" = 1'-0"



K3 UNIT A1 - ENLARGED ELEVATION
3/8" = 1'-0"



K2 UNIT A1 - ENLARGED ELEVATION
3/8" = 1'-0"



K1 UNIT 1A - DIMENSIONS & REFERENCE PLAN
3/8" = 1'-0"

ISSUE HISTORY

No.	Date	Description

REVISION HISTORY

No.	Date	Description

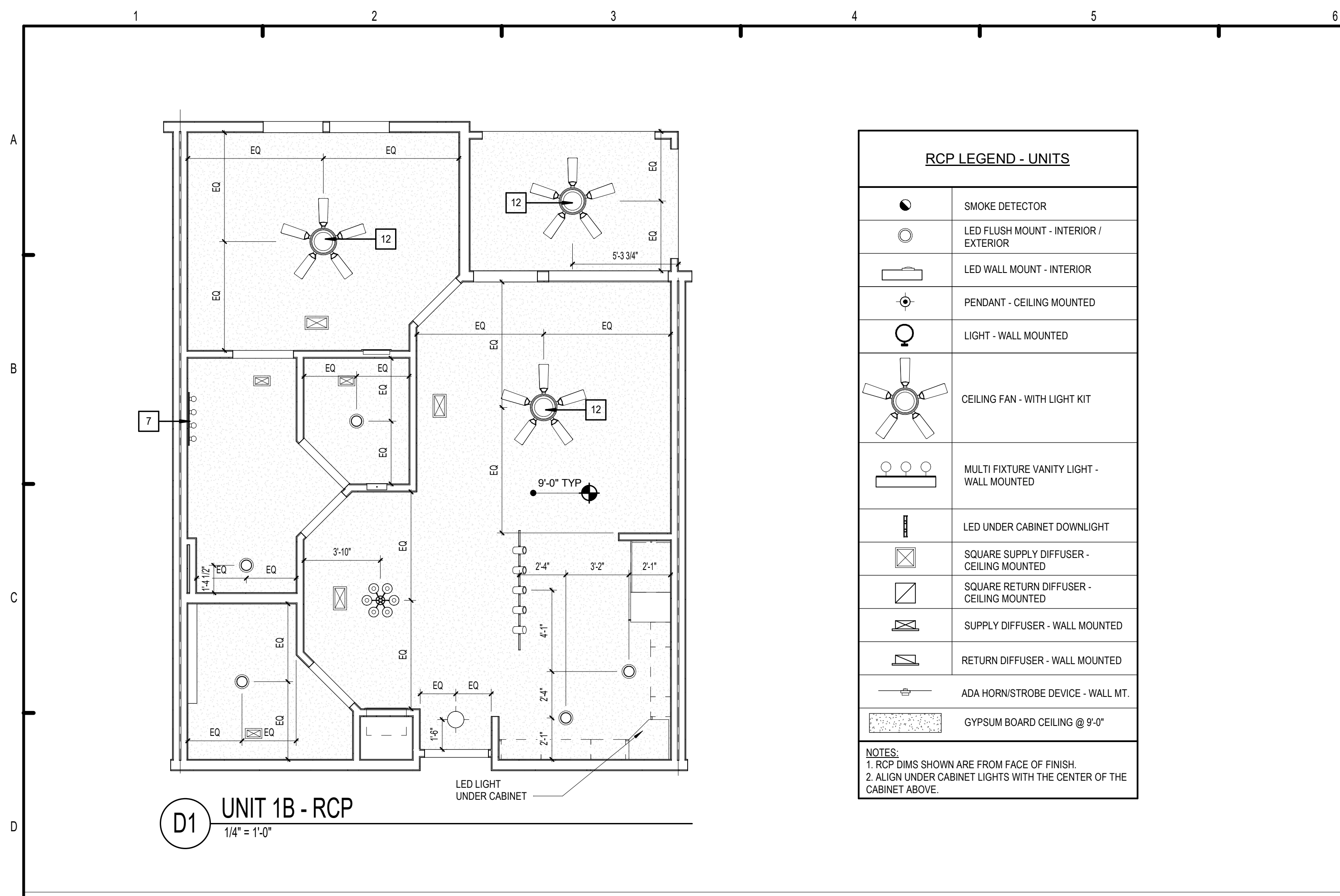
FUGLEBERG KOCH
2555 Temple Trail, Winter Park, FL 32789 (407) 629-0595
www.fuglebergkoch.com AA26002103

CONSULTANT
STATE OF ALABAMA
MICHAEL GOVE 8234
9/15/22
REGISTERED ARCHITECT

THE ROBERT - MADISON
MADISON, ALABAMA
Drawn: MB
Checked: JK
Approval: MS
Date: 04/15/2022
Project #: 572

UNIT 1A - 1BR. UNIT PLAN

A3.01



RCP LEGEND - UNITS

	SMOKE DETECTOR
	LED FLUSH MOUNT - INTERIOR / EXTERIOR
	LED WALL MOUNT - INTERIOR
	PENDANT - CEILING MOUNTED
	LIGHT - WALL MOUNTED
	CEILING FAN - WITH LIGHT KIT
	MULTI FIXTURE VANITY LIGHT - WALL MOUNTED
	LED UNDER CABINET DOWNLIGHT
	SQUARE SUPPLY DIFFUSER - CEILING MOUNTED
	SQUARE RETURN DIFFUSER - CEILING MOUNTED
	SUPPLY DIFFUSER - WALL MOUNTED
	RETURN DIFFUSER - WALL MOUNTED
	ADA HORN/STROBE DEVICE - WALL MT.
	GYPSUM BOARD CEILING @ 9'-0"

NOTES:
 1. RCP DIMS SHOWN ARE FROM FACE OF FINISH.
 2. ALIGN UNDER CABINET LIGHTS WITH THE CENTER OF THE CABINET ABOVE.

LEGEND:

- CLEAR FLOOR SPACE
- LEVEL CHANGE
- DENOTES BATHROOM ACCESSORY/KITCHEN APPLIANCE
- BATT INSULATION
- DENOTES BLOCKING FOR FUTURE GRAB BARS. REFER TO FHA CLEARANCES FOR MORE INFO.

BATH & KITCHEN LEGEND:

- 18" TOWEL BAR
- TOILET TISSUE HOLDER
- CURVED SHOWER ROD
- MEDICINE CABINET
- MIRROR
- HAND TOWEL RING
- SOAP DISH
- RECESSED CABINET ABOVE W.C.
- 24" TOWEL BAR
- GRAB BAR REINFORCEMENT, BTWN 2'-6" MAX.
- REFER TO EXTERIOR ELEVATIONS AND BUILDING PLANS FOR WINDOW TYPE.
- CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- REFER TO A3.30 - A3.32 FOR BALCONY PLANS SPECIFIC TO EACH UNIT AS IT OCCURS THROUGHOUT.
- ALL PLUMBING WALLS NEED TO BE COORDINATED WITH PLUMBER TO DETERMINE 2X4 OR 2X6 CONSTRUCTION.
- PROVIDE ONE 4-A, 10-B-C 5 lb FIRE EXTINGUISHER PER UNIT. LOCATE PER FIRE DEPARTMENT REQUIREMENTS.
- PROVIDE ACoustICAL UNDERLAYMENT UNDERNEATH VINYL PLANK FLOORING LOCATIONS WITHIN UNITS ON ELEVATED FLOORS. REFER TO SPECIFICATIONS FOR APPROVED PRODUCT.
- PROVIDE DISPOSER AT ALL KITCHEN SINKS. REFER TO PLANS FOR AIR SWITCH LOCATION. PLACE ON SAME SIDE AS DISPOSER.
- CLOSET RODS:
 - 12" DEEP, TOP OF SHELVING IN CLOSETS SHALL BE AT 3'-0" AND 6'-0" SEE PLANS.
 - 12" DEEP SHELVING AT PANTRIES & LINEN CLOSETS: 5 SHELVES EQUALLY SPACED @ 13" A PART 18", 22", 27" AND 80".
 - PROVIDE (5) 18" X 12" DEEP LINEN SHELVES EQUALLY SPACED AT BEDROOM CLOSET ENDS WHERE INDICATED.
 - SHELVING AT LAUNDRY ROOMS - 24" DEEP @ 5'-0" SHELVING AT ENTRY CLOSETS - 12" DEEP @ 5'-0".
- KITCHEN OUTLETS SHALL BE SPACED PER NEC. FHA REQUIRES THAT OUTLETS BE PLACED NO LESS THAN 3'-0" FROM THE CORNER UNLESS AN ADDITIONAL OUTLET IS ADDED. KITCHEN ELEVATIONS INDICATE APPROXIMATE DIMENSIONS NEEDED TO MEET BOTH NEC AND FHA 4'-0" O.C. MAX. BETWEEN OUTLETS SHALL BE PROVIDED AROUND A CORNER.
- SEE SHEET A3.10 FOR STANDARD MOUNTING HEIGHTS AND DETAILS.
- PROVIDE WINDOW-EASE OPENING DEVICE AT ACCESSIBLE UNIT OPERABLE WINDOWS (WWW.WINDOWEASE.COM).

UNIT 1B - Total Gross Area Schedule

Name	Area	Bedrooms	Baths	Den	Occupants
UNIT 1B	731 SF	1	1	1	
BALCONY	80 SF				
	811 SF				

UNIT 1B - Total Net Area

Name	Area	Bedrooms	Baths	Den
UNIT 1B	690.54 SF	1	1	1
	690.54 SF			

- GENERAL NOTES:**
- ALL DIMENSIONS ARE FROM OUTSIDE FACE OF STUD UNLESS NOTED OTHERWISE.
 - REFER TO EXTERIOR ELEVATIONS AND BUILDING PLANS FOR WINDOW TYPE.
 - CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
 - REFER TO A3.30 - A3.32 FOR BALCONY PLANS SPECIFIC TO EACH UNIT AS IT OCCURS THROUGHOUT.
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 - PROVIDE ONE 4-A, 10-B-C 5 lb FIRE EXTINGUISHER PER UNIT. LOCATE PER FIRE DEPARTMENT REQUIREMENTS.
 - PROVIDE ACoustICAL UNDERLAYMENT UNDERNEATH VINYL PLANK FLOORING LOCATIONS WITHIN UNITS ON ELEVATED FLOORS. REFER TO SPECIFICATIONS FOR APPROVED PRODUCT.
 - PROVIDE DISPOSER AT ALL KITCHEN SINKS. REFER TO PLANS FOR AIR SWITCH LOCATION. PLACE ON SAME SIDE AS DISPOSER.
 - CLOSET RODS:
 - 12" DEEP, TOP OF SHELVING IN CLOSETS SHALL BE AT 3'-0" AND 6'-0" SEE PLANS.
 - 12" DEEP SHELVING AT PANTRIES & LINEN CLOSETS: 5 SHELVES EQUALLY SPACED @ 13" A PART 18", 22", 27" AND 80".
 - PROVIDE (5) 18" X 12" DEEP LINEN SHELVES EQUALLY SPACED AT BEDROOM CLOSET ENDS WHERE INDICATED.
 - SHELVING AT LAUNDRY ROOMS - 24" DEEP @ 5'-0" SHELVING AT ENTRY CLOSETS - 12" DEEP @ 5'-0".
 - KITCHEN OUTLETS SHALL BE SPACED PER NEC. FHA REQUIRES THAT OUTLETS BE PLACED NO LESS THAN 3'-0" FROM THE CORNER UNLESS AN ADDITIONAL OUTLET IS ADDED. KITCHEN ELEVATIONS INDICATE APPROXIMATE DIMENSIONS NEEDED TO MEET BOTH NEC AND FHA 4'-0" O.C. MAX. BETWEEN OUTLETS SHALL BE PROVIDED AROUND A CORNER.
 - SEE SHEET A3.10 FOR STANDARD MOUNTING HEIGHTS AND DETAILS.
 - PROVIDE WINDOW-EASE OPENING DEVICE AT ACCESSIBLE UNIT OPERABLE WINDOWS (WWW.WINDOWEASE.COM).

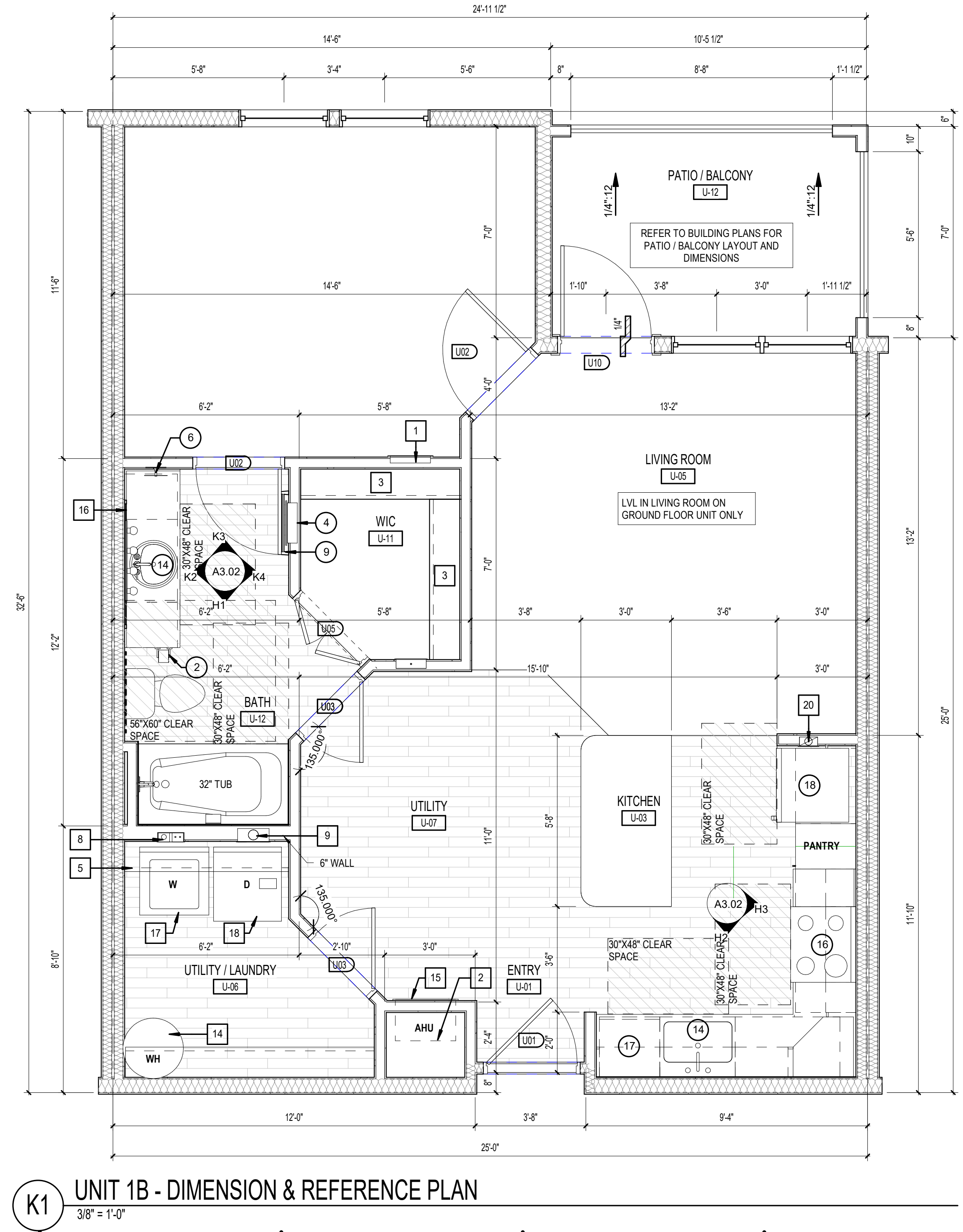
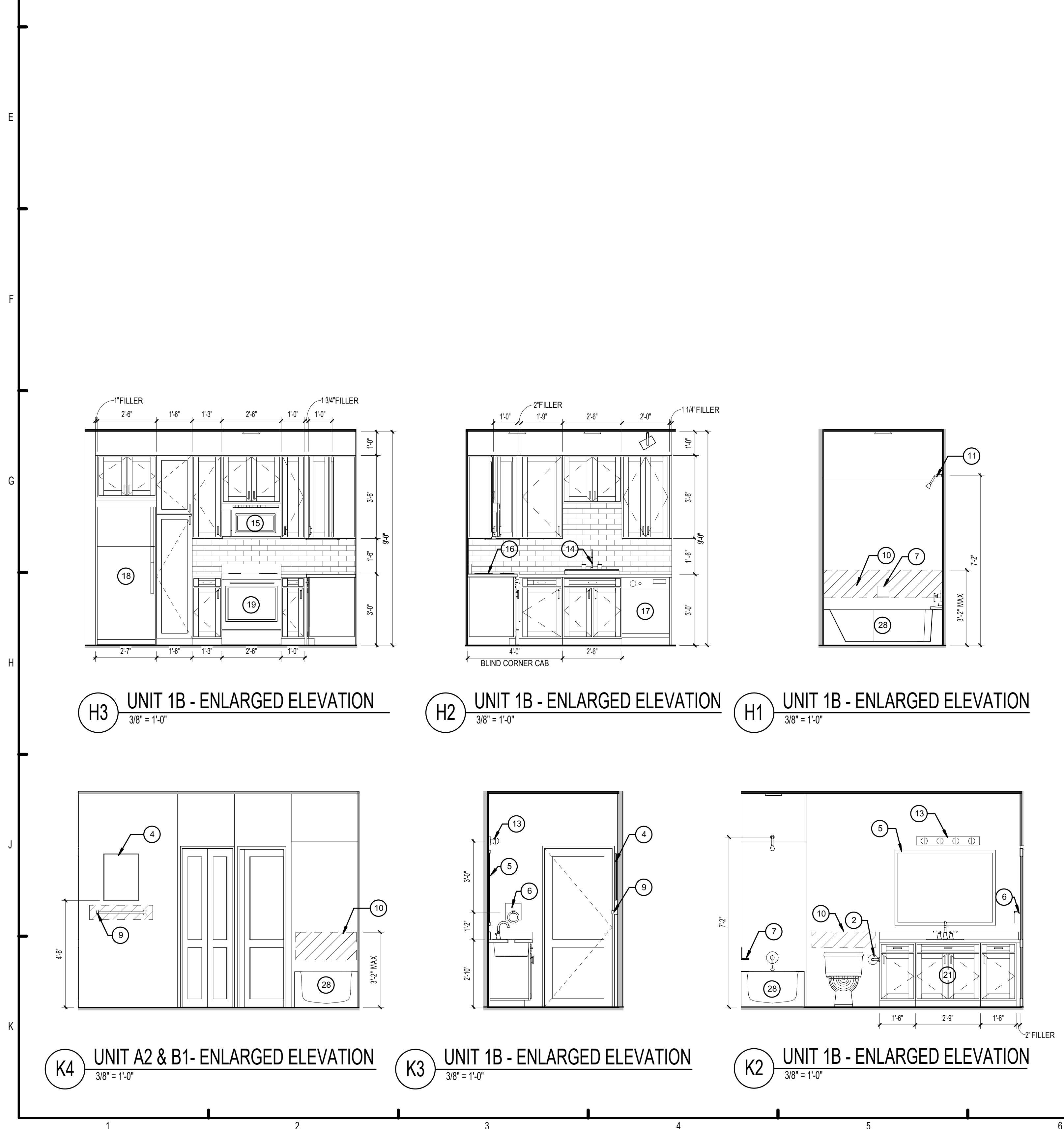
- UNIT KEYNOTES:**
- ELECTRICAL PANEL. REFER TO ELECTRICAL DWGS.
 - W/AC UNIT. SEE MECHANICAL DRAWINGS.
 - WIRE SHELF & POLE @ 6'-0"
 - WIRE SHELF @ 3'-4" & 6'-0" AFF.
 - SHELF ABOVE WASHER @ 5'-6" AFF.
 - MAINTAIN MIN. 3'-0" CLEAR BETWEEN FINISHES AND FURNITURE, TYP.
 - CENTER LIGHTING FIXTURE ABOVE LAVATORY.
 - WASHER BOX.
 - DRYER VENT.
 - COMBO WASHER / DRYER BOX.
 - MOVABLE KITCHEN ISLAND.
 - PROVIDE FAN RATED REINFORCED J-BOX.
 - ATTIC ACCESS. TOP FLOOR UNITS ONLY.
 - WATER HEATER. SEE PLUMBING DRAWINGS.
 - ACCESS PANEL FOR MECH. UNIT.
 - FRAMELESS MIRROR.
 - WASHER.
 - DRYER.
 - STACKED WASHER/DRYER COMBO.
 - SEE MAKER CONNECTION.

ISSUE HISTORY

No.	Date	Description

REVISION HISTORY

No.	Date	Description



FUGLEBERG KOCH
 2555 Temple Trail, Winter Park, FL 32789 (407) 629-0595
 www.fuglebergkoch.com AA26002103



THE ROBERT - MADISON

Drawn	MS
Checked	JK
Approval	MS
Date	04/15/2022
Project #	572

UNIT 1B - 1BR. UNIT PLAN
A3.02

RCP LEGEND - UNITS

	SMOKE DETECTOR
	LED FLUSH MOUNT - INTERIOR / EXTERIOR
	LED WALL MOUNT - INTERIOR
	PENDANT - CEILING MOUNTED
	LIGHT - WALL MOUNTED
	CEILING FAN - WITH LIGHT KIT
	MULTI FIXTURE VANITY LIGHT - WALL MOUNTED
	LED UNDER CABINET DOWNLIGHT
	SQUARE SUPPLY DIFFUSER - CEILING MOUNTED
	SQUARE RETURN DIFFUSER - CEILING MOUNTED
	SUPPLY DIFFUSER - WALL MOUNTED
	RETURN DIFFUSER - WALL MOUNTED
	ADA HORN/STROBE DEVICE - WALL MT.
	GYPSUM BOARD CEILING @ 5'-0"

NOTES:
 1. RCP DIMS SHOWN ARE FROM FACE OF FINISH.
 2. ALIGN UNDER CABINET LIGHTS WITH THE CENTER OF THE CABINET ABOVE.

LEGEND:

	CLEAR FLOOR SPACE
	LEVEL CHANGE
	DENOTES BATHROOM ACCESSORY/KITCHEN APPLIANCE
	BATT INSULATION
	DENOTES BLOCKING FOR FUTURE GRAB BARS. REFER TO FHA CLEARANCES FOR MORE INFO.

BATH & KITCHEN LEGEND: (X)

- 1" TOWEL BAR
- TOILET TISSUE HOLDER
- CURVED SHOWER ROD
- MEDICINE CABINET
- MIRROR
- HAND TOWEL RING
- SOAP DISH
- RECESSED CABINET ABOVE W.C.
- 24" TOWEL BAR
- GRAB BAR REINFORCEMENT, BTWN: 2'-6" MAX. A.F.F. & 3'-2" MIN. A.F.F. (GRAB BARS TO BE INSTALLED IN ALL ANSI TYPE 'A' UNITS)
- SHOWER HEAD
- WATER CLOSET STD. HT.
- LIGHT FIXTURE (SEE ELECTRICAL)
- SINK
- MICROWAVE
- RANGE
- DISHWASHER
- REFRIGERATOR
- OVEN
- ANSI OVEN
- VANITY CABINET W/SINK
- 12" DEEP SHELVING AT PANTRIES & LINEN CLOSETS, 4 SHELVES EQUALLY SPACED @ 13" A PART (16", 29", 42", 55" AND 68")
- PROVIDE (5) 18" X 12" DEEP LINEN SHELVES EQUALLY SPACED AT BEDROOM CLOSET ENDS WHERE INDICATED.
- SHELVING AT ENTRY CLOSETS - 12" DEEP @ 6'-0"
- KITCHEN OUTLETS SHALL BE SPACED PER NEC. FHA REQUIRES THAT OUTLETS BE PLACED NO LESS THAN 3'-0" FROM THE CORNER UNLESS AN ADDITIONAL OUTLET IS ADDED. KITCHEN ELEVATIONS INDICATE APPROXIMATE DIMENSIONS NEEDED TO MEET BOTH NEC AND FHA. 4'-0" O.C. MAX. BETWEEN OUTLETS SHALL BE PROVIDED AROUND A CORNER.
- SEE SHEET A3.10 FOR STANDARD MOUNTING HEIGHTS AND DETAILS.
- PROVIDE WINDOW-EASE OPENING DEVICE AT ACCESSIBLE UNIT OPERABLE WINDOWS (WWW.WINDOWEASE.COM).

UNIT 1Bs - Total Gross Area Schedule

Name	Area	Bedrooms	Baths	Den	Occupants
UNIT 1Bs	811 SF	1	1	1	
811 SF					

UNIT 1Bs - Total Net Area

Unit Descriptor	Area	Bedrooms	Baths	Den
UNIT 1Bs	767 SF	1	1	
767 SF				

GENERAL NOTES:

- ALL DIMENSIONS ARE FROM OUTSIDE FACE OF STUD UNLESS NOTED OTHERWISE.
- REFER TO EXTERIOR ELEVATIONS AND BUILDING PLANS FOR WINDOW TYPE.
- CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- REFER TO A3.30 - A3.32 FOR BALCONY PLANS SPECIFIC TO EACH UNIT AS IT OCCURS THROUGHOUT.
- ALL PLUMBING WALLS NEED TO BE COORDINATED WITH PLUMBER TO DETERMINE 2X4 OR 2X6 CONSTRUCTION.
- PROVIDE ONE 4-A, 10-B-C 5 lb FIRE EXTINGUISHER PER UNIT. LOCATE PER FIRE DEPARTMENT REQUIREMENTS.
- PROVIDE ACOUSTICAL UNDERLAYMENT UNDER NEATH VINYL PLANK FLOORING LOCATIONS WITHIN UNITS ON ELEVATED FLOORS. REFER TO SPECIFICATIONS FOR APPROVED PRODUCT.
- PROVIDE DISPOSER AT ALL KITCHEN SINKS. PLACE ON TO PLANS FOR AIR SWITCH LOCATION. REFER ON SAME SIDE AS DISPOSER.
- CLOSET RODS:
 - 12" DEEP, TOP OF SHELVING IN CLOSETS SHALL BE AT 3'-0" AND 6'-0". SEE PLANS.
 - 12" DEEP SHELVING AT PANTRIES & LINEN CLOSETS, 4 SHELVES EQUALLY SPACED @ 13" A PART (16", 29", 42", 55" AND 68").
 - PROVIDE (5) 18" X 12" DEEP LINEN SHELVES EQUALLY SPACED AT BEDROOM CLOSET ENDS WHERE INDICATED.
 - SHELVING AT ENTRY CLOSETS - 12" DEEP @ 6'-0"
- KITCHEN OUTLETS SHALL BE SPACED PER NEC. FHA REQUIRES THAT OUTLETS BE PLACED NO LESS THAN 3'-0" FROM THE CORNER UNLESS AN ADDITIONAL OUTLET IS ADDED. KITCHEN ELEVATIONS INDICATE APPROXIMATE DIMENSIONS NEEDED TO MEET BOTH NEC AND FHA. 4'-0" O.C. MAX. BETWEEN OUTLETS SHALL BE PROVIDED AROUND A CORNER.
- SEE SHEET A3.10 FOR STANDARD MOUNTING HEIGHTS AND DETAILS.
- PROVIDE WINDOW-EASE OPENING DEVICE AT ACCESSIBLE UNIT OPERABLE WINDOWS (WWW.WINDOWEASE.COM).

UNIT KEYNOTES: (X)

- ELECTRICAL PANEL. REFER TO ELECTRICAL DWGS.
- HVAC UNIT. SEE MECHANICAL DRAWINGS.
- WIRE SHELF & POLE @ 6'-0"
- WIRE SHELF @ 3'-4" & 5'-0" AFF.
- SHELF ABOVE WASHER @ 5'-6" AFF.
- MAINTAIN MIN. 3'-0" CLEAR BETWEEN FINISHES AND FURNITURE, TYP.
- CENTER LIGHTING FIXTURE ABOVE LAVATORY.
- WASHER BOX.
- DRYER VENT.
- COMBO WASHER / DRYER BOX.
- MOVABLE KITCHEN ISLAND.
- PROVIDE FAN RATED REINFORCED J-BOX.
- ATTIC ACCESS. TOP FLOOR UNITS ONLY.
- WATER HEATER. SEE PLUMBING DRAWINGS.
- ACCESS PANEL FOR MECH. UNIT.
- FRAMELESS MIRROR.
- WASHER.
- DRYER.
- STACKED WASHER/DRYER COMBO.
- ICE MAKER CONNECTION.

ISSUE HISTORY

No.	Date	Description

REVISION HISTORY

No.	Date	Description

FUGLEBERG KOCH
 2555 Temple Trail, Winter Park, FL 32789 (407) 629-0595
 www.fuglebergkoch.com AA26002103

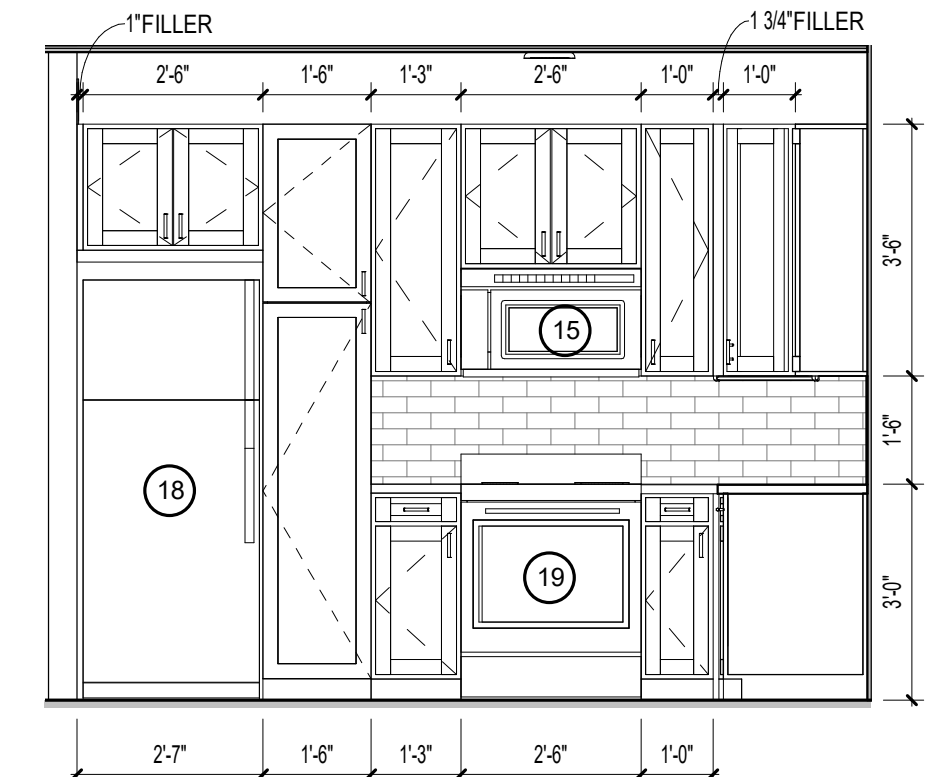
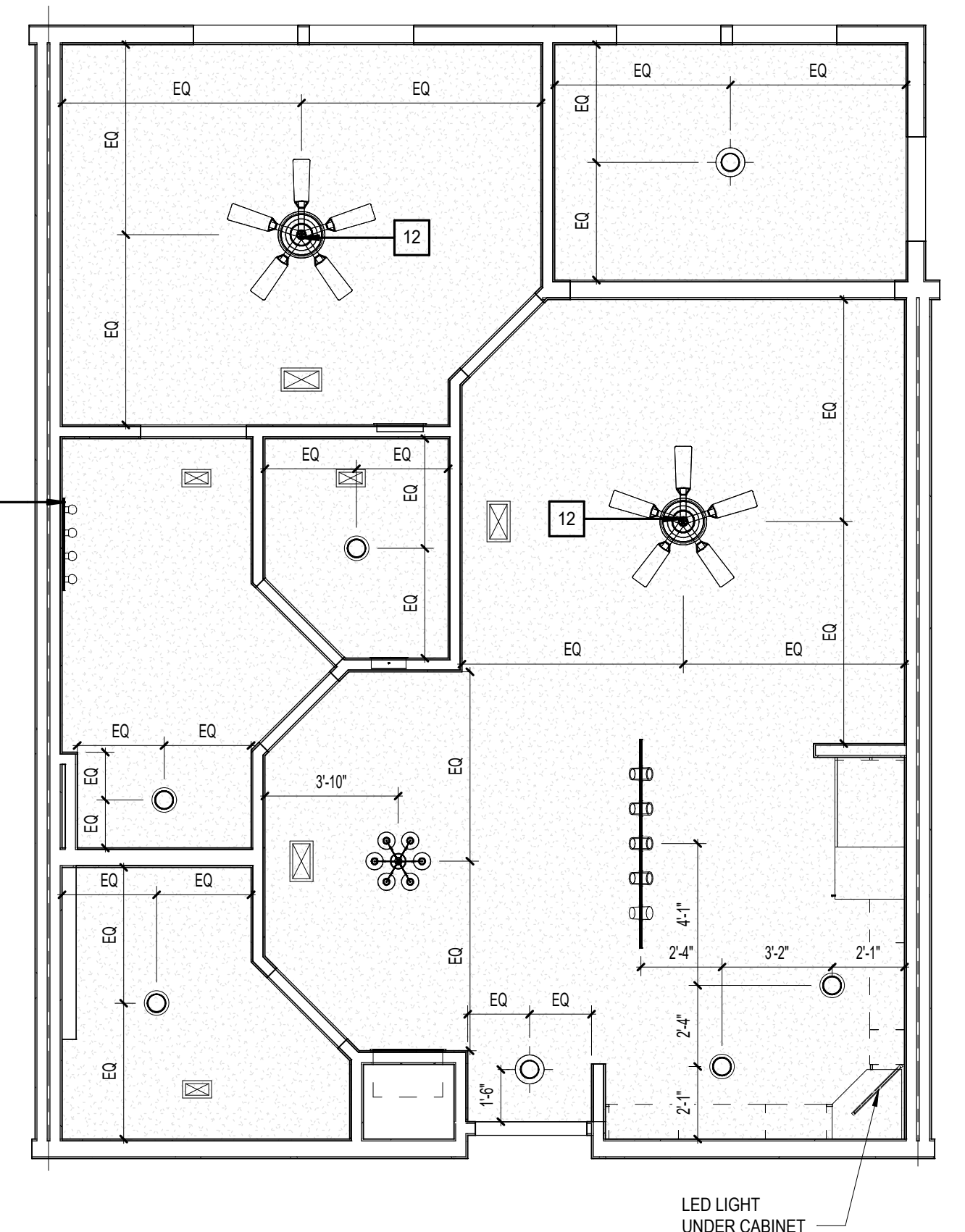
CONSULTANT
STATE OF ALABAMA
Professional Seal
9234
4/15/22
 REGISTERED ARCHITECT

THE ROBERT - MADISON
 MADISON, ALABAMA
 Drawn: MB
 Checked: JK
 Approval: MS
 Date: 04/15/2022
 Project #: 5722

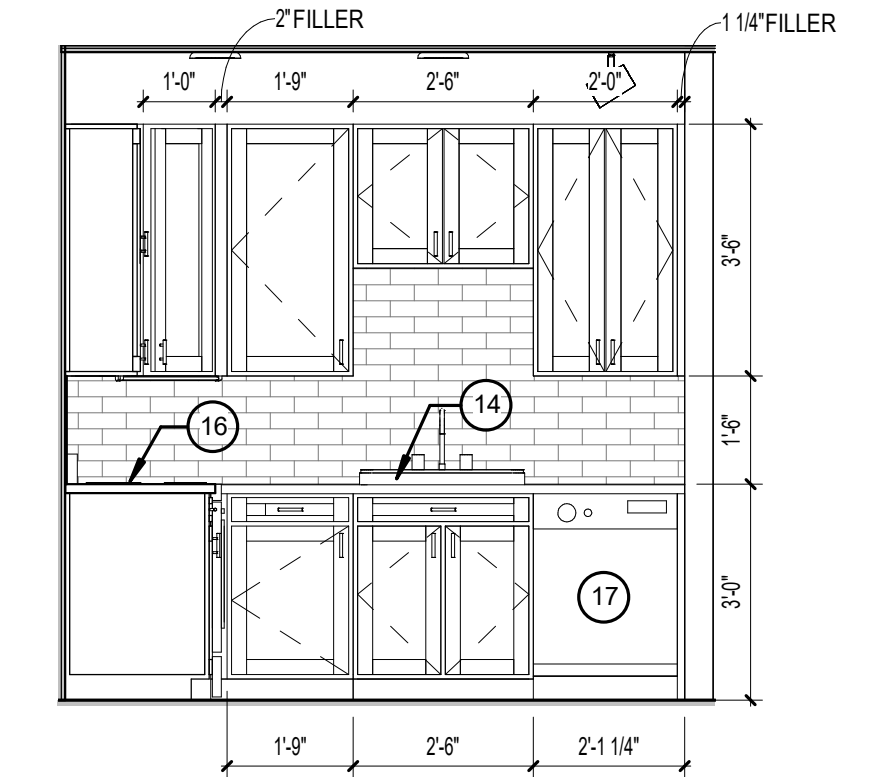
UNIT 1Bs - 1 BR WITH SOLARIUM

A3.03

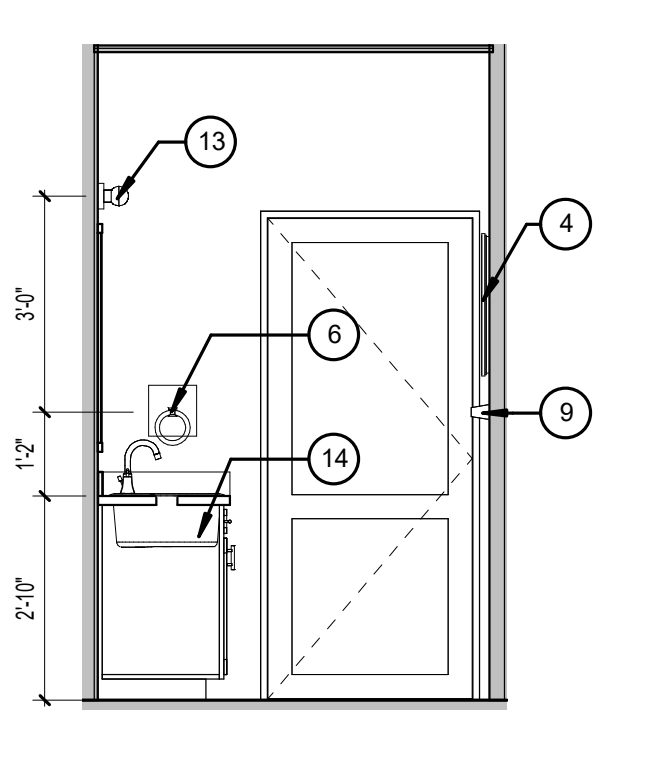
D1 UNIT 1Bs W/ SOLARIUM - RCP
 1/4" = 1'-0"



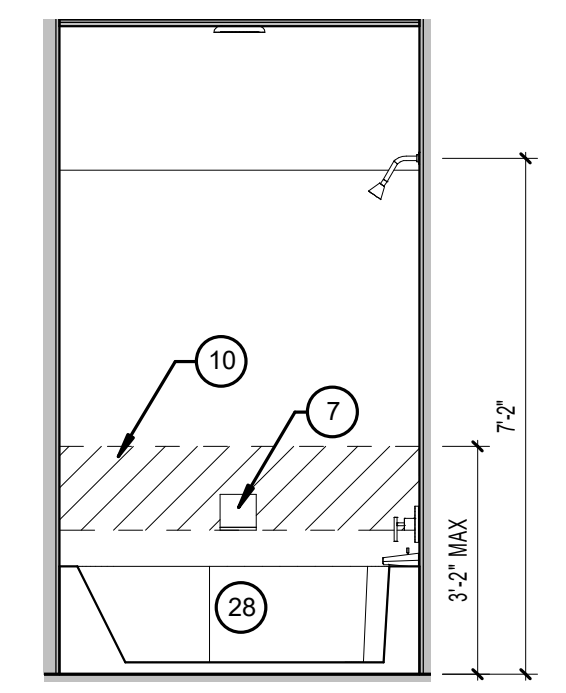
H3 UNIT 1Bs - ENLARGED ELEVATION
 3/8" = 1'-0"



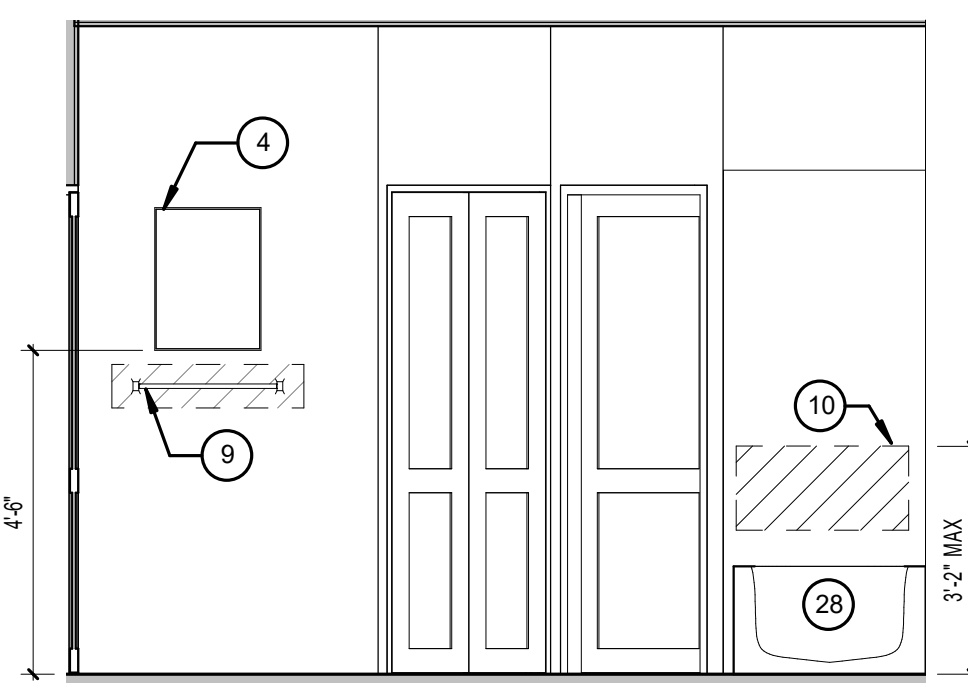
H2 UNIT 1Bs - ENLARGED ELEVATION
 3/8" = 1'-0"



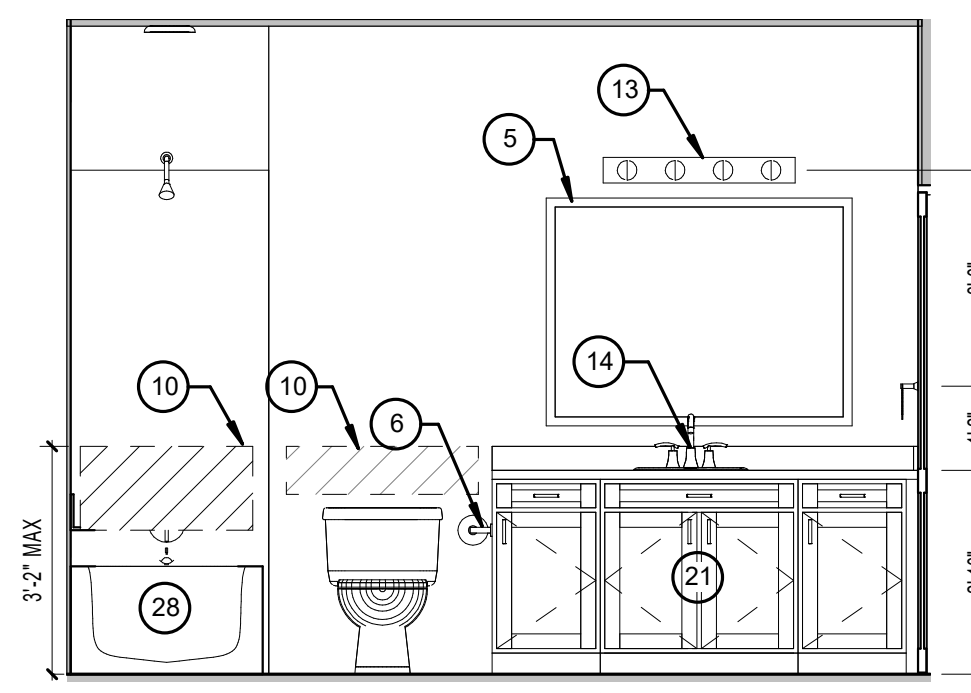
H1 UNIT 1Bs - ENLARGED ELEVATION
 3/8" = 1'-0"



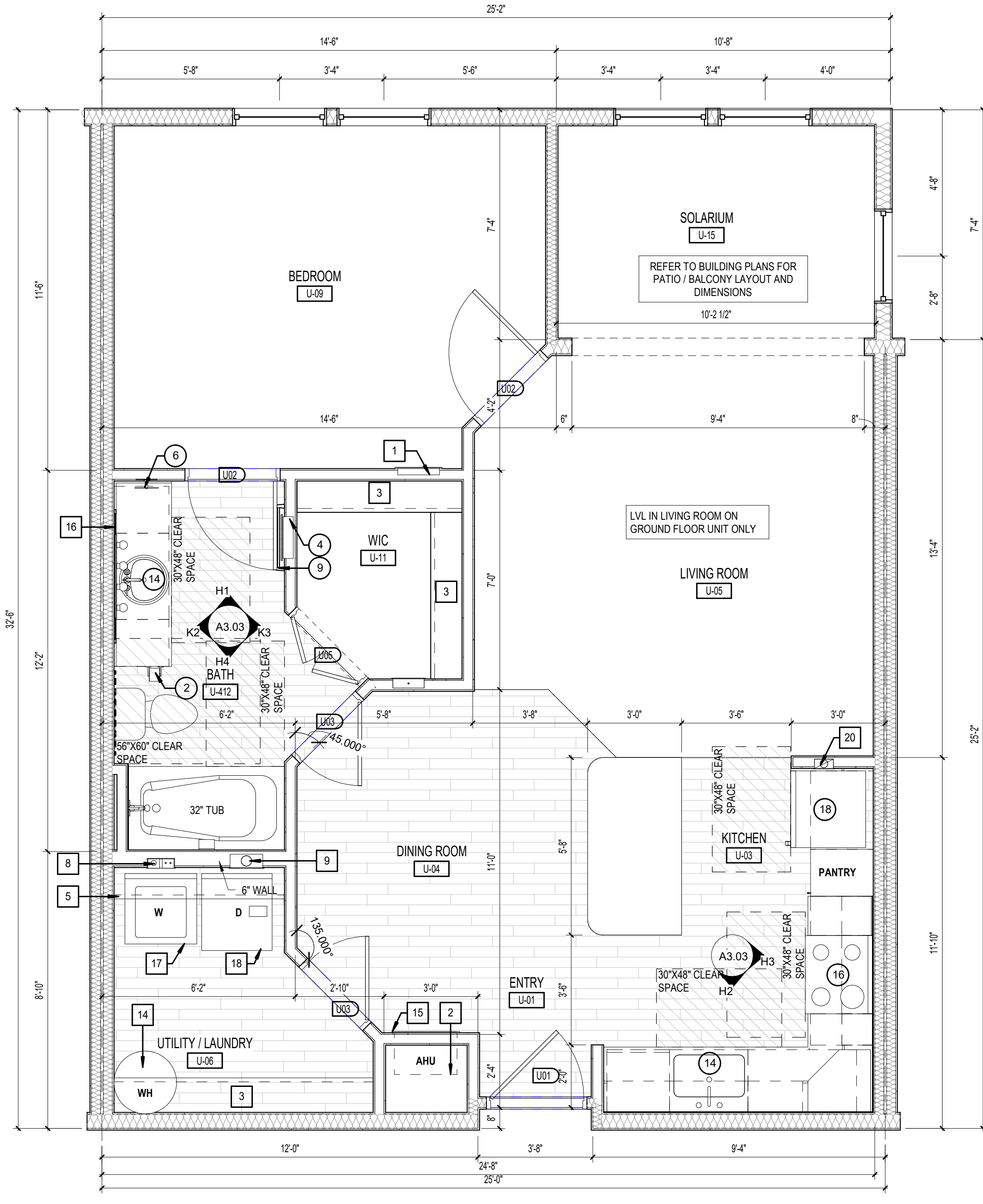
H4 UNIT 1Bs - ENLARGED ELEVATION
 3/8" = 1'-0"



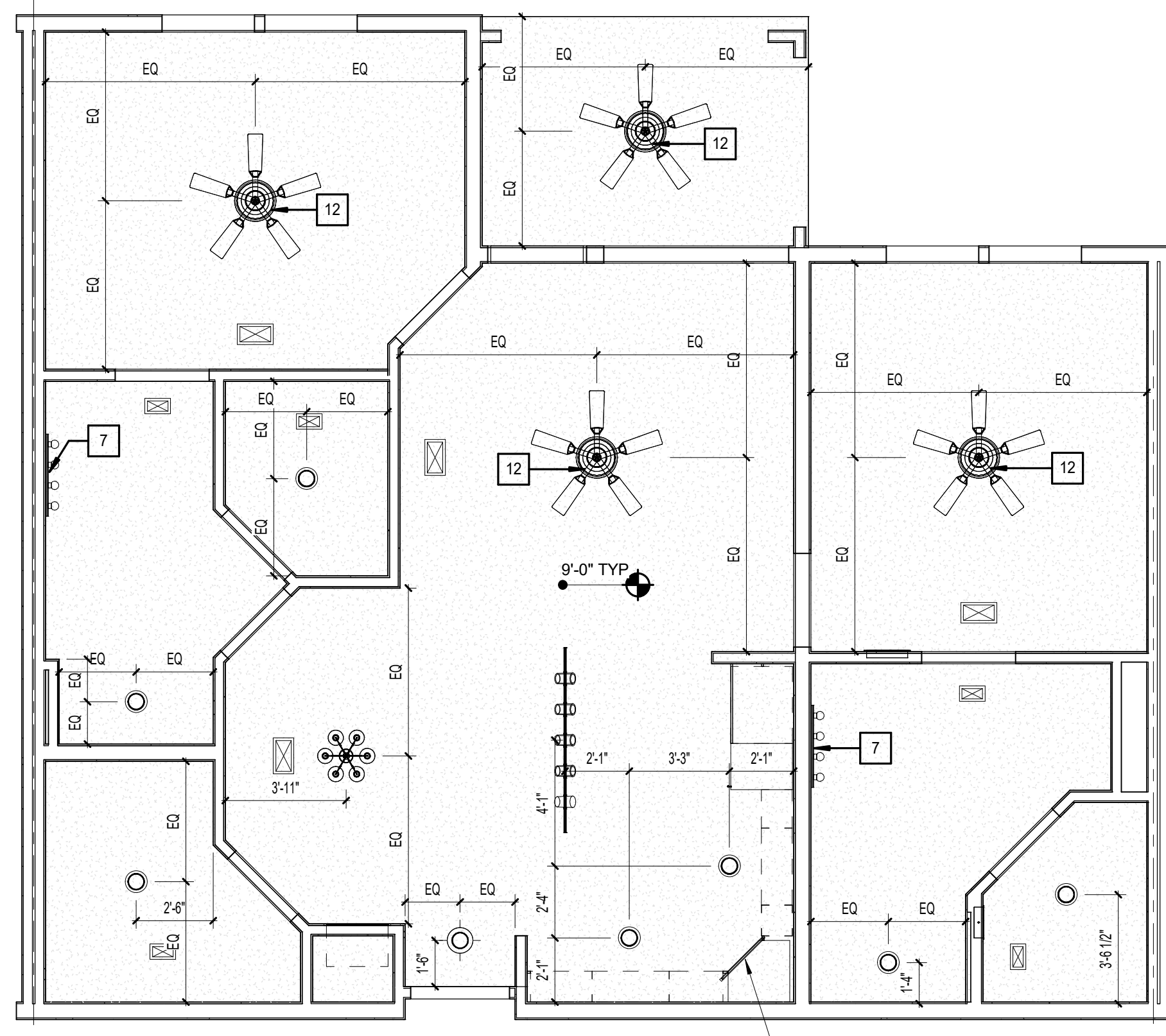
K3 UNIT 1Bs - ENLARGED ELEVATION
 3/8" = 1'-0"



K2 UNIT 1Bs - ENLARGED ELEVATION
 3/8" = 1'-0"



K1 UNIT 1Bs - w/ SOLARIUM - DIMENSION & REFERENCE PLAN
 3/8" = 1'-0"



RCP LEGEND - UNITS	
	SMOKE DETECTOR
	LED FLUSH MOUNT - INTERIOR / EXTERIOR
	LED WALL MOUNT - INTERIOR
	PENDANT - CEILING MOUNTED
	LIGHT - WALL MOUNTED
	CEILING FAN - WITH LIGHT KIT
	MULTI FIXTURE VANITY LIGHT - WALL MOUNTED
	LED UNDER CABINET DOWNLIGHT
	SQUARE SUPPLY DIFFUSER - CEILING MOUNTED
	SQUARE RETURN DIFFUSER - CEILING MOUNTED
	SUPPLY DIFFUSER - WALL MOUNTED
	RETURN DIFFUSER - WALL MOUNTED
	ADA HORN STROBE DEVICE - WALL MT.
	GYPSUM BOARD CEILING @ 9'-0"

NOTES:
 1. RCP DIMS SHOWN ARE FROM FACE OF FINISH
 2. ALIGN UNDER CABINET LIGHTS WITH THE CENTER OF THE CABINET ABOVE.

D1 UNIT 2B - RCP
 1/4" = 1'-0"

LEGEND:

- CLEAR FLOOR SPACE
- LEVEL CHANGE
- DENOTES BATHROOM ACCESSORY/KITCHEN APPLIANCE
- BATT INSULATION
- DENOTES BLOCKING FOR FUTURE GRAB BARS. REFER TO FHA CLEARANCES FOR MORE INFO.

BATH & KITCHEN LEGEND:

- 18" TOWEL BAR
- TOILET TISSUE HOLDER
- CURVED SHOWER ROD
- MEDICINE CABINET
- MIRROR
- HAND TOWEL RING
- SOAP DISH
- RECESSED CABINET ABOVE W.C.
- 24" TOWEL BAR
- GRAB BAR REINFORCEMENT, BTWN 2'-6" MAX.
- A.F.F. & 5" MIN. A.F.F. (GRAB BARS TO BE INSTALLED IN ALL ANSI TYPE 'A' UNITS)
- SHOWER HEAD
- WATER CLOSET STD. HT.
- LIGHT FIXTURE (SEE ELECTRICAL)
- SINK
- MICROWAVE
- RANGE
- DISHWASHER
- REFRIGERATOR
- OVEN
- ANSI OVEN
- VANITY CABINET W/SINK
- 36" - TUB
- EXHAUST FAN
- 32" - TUB
- 6X6 TILE
- HAND HELD/FIXED SHOWER SPRAY UNIT W/HOSE 60" MIN. LONG AND ADJUSTABLE BAR
- REMOVABLE IN TUB SEAT
- FIBERGLASS TUB W TILE SURROUND
- GLASS SHOWER ENCLOSURE W TILE WALLS & ACRYLIC PRE-FABRICATED PAN.

UNIT 2B - Total Gross Area Schedule					
Name	Area	Bedrooms	Baths	Den	Occupants
UNIT 2B	1019 SF	2	2	1	
BALCONY	74 SF				
	1093 SF				

UNIT 2B - Total Net Area				
Unit Descriptor	Area	Bedrooms	Baths	Den
UNIT 2B	972 SF	2	2	1
	972 SF			

- GENERAL NOTES:**
- ALL DIMENSIONS ARE FROM OUTSIDE FACE OF STUD UNLESS NOTED OTHERWISE.
 - REFER TO EXTERIOR ELEVATIONS AND BUILDING PLANS FOR WINDOW TYPE.
 - CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES SPECIFIC TO EACH UNIT AS IT OCCURS THROUGHOUT.
 - ALL PLUMBING WALLS NEED TO BE COORDINATED WITH PLUMBER TO DETERMINE 2X4 OR 2X6 CONSTRUCTION.
 - PROVIDE ONE 4A: 10-B-C 5 b FIRE EXTINGUISHER PER UNIT. LOCATE PER FIRE DEPARTMENT REQUIREMENTS.
 - PROVIDE ACOUSTICAL UNDERLAYMENT UNDERNEATH VINYL PLANK FLOORING LOCATIONS WITHIN UNITS ON ELEVATED FLOORS. REFER TO SPECIFICATIONS FOR APPROVED PRODUCT.
 - PROVIDE DISPOSER AT ALL KITCHEN SINKS. REFER TO PLANS FOR AIR SWITCH LOCATION. PLACE ON SAME SIDE AS DISPOSER.
 - CLOSET RODS:
 - 12" DEEP, TOP OF SHELVING IN CLOSETS SHALL BE AT 3'-0" AND 6'-0". SEE PLANS
 - 12" DEEP SHELVING AT PANTYRES & LINEN CLOSETS. 5 SHELVES EQUALLY SPACED @ 13" A PART (16", 29", 42", 55" AND 68")
 - PROVIDE (6) 18" X 12" DEEP LINEN SHELVES EQUALLY SPACED AT BEDROOM/CLOSET ENDS WHERE INDICATED.
 - SHELVING AT LAUNDRY ROOMS - 24" DEEP @ 5'-0" SHELVING AT ENTRY CLOSETS - 12" DEEP @ 6'-0".
 - KITCHEN OUTLETS SHALL BE SPACED PER NEC. FHA REQUIRES THAT OUTLETS BE PLACED NO LESS THAN 3'-0" FROM THE CORNER UNLESS AN ADDITIONAL OUTLET IS ADDED. KITCHEN ELEVATIONS INDICATE APPROXIMATE DIMENSIONS NEEDED TO MEET BOTH NEC AND FHA. 4'-0" O.C. MAX. BETWEEN OUTLETS SHALL BE PROVIDED AROUND A CORNER.
 - SEE SHEET A3-10 FOR STANDARD MOUNTING HEIGHTS AND DETAILS.
 - PROVIDE WINDOW-EASE OPENING DEVICE AT ACCESSIBLE UNIT OPERABLE WINDOWS (WWW.WINDOWEASE.COM).

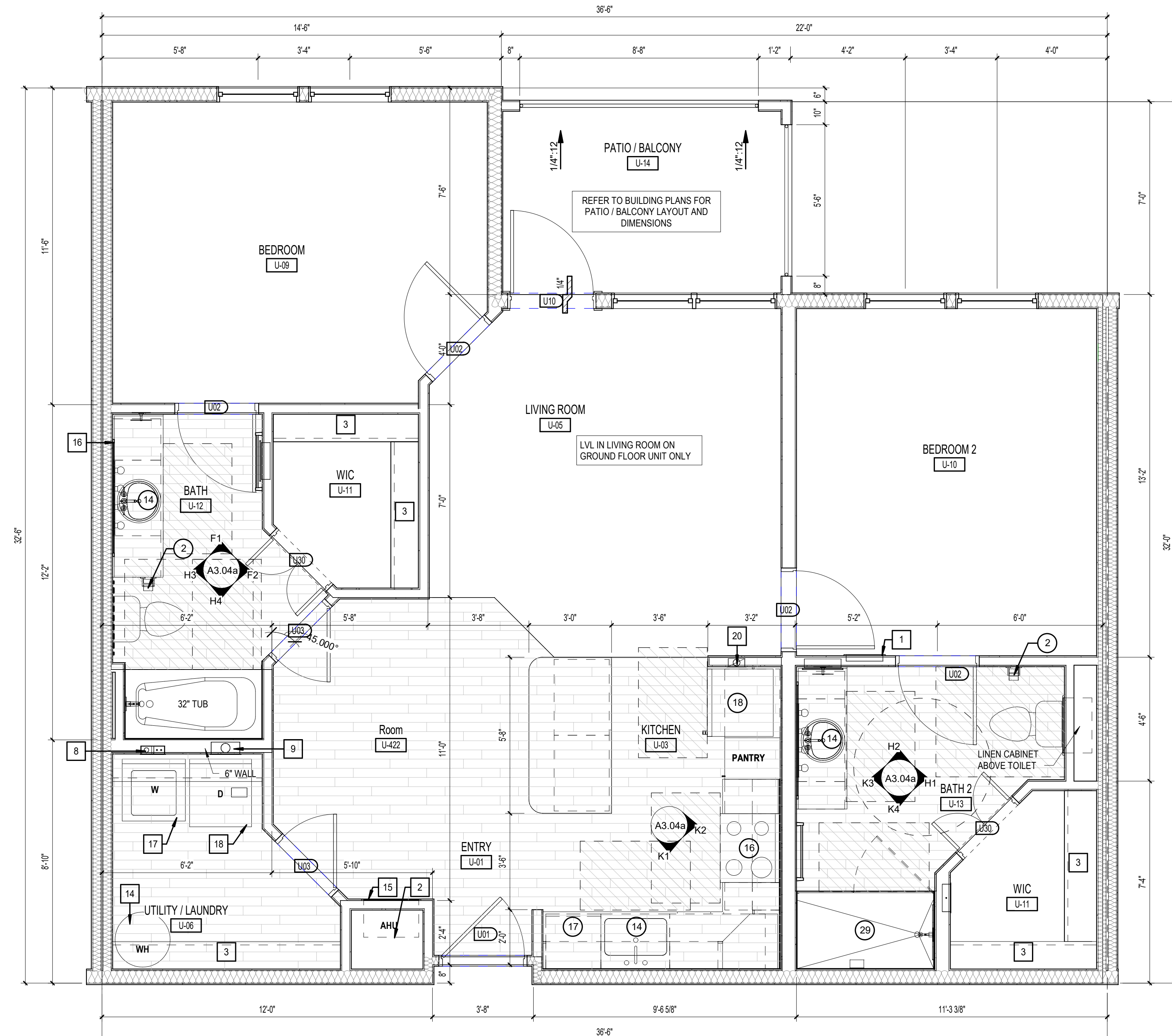
- UNIT KEYNOTES:**
- ELECTRICAL PANEL REFER TO ELECTRICAL DWGS.
 - HVAC UNIT, SEE MECHANICAL DRAWINGS.
 - WIRE SHELF & POLE @ 6'-0"
 - WIRE SHELF @ 3'-4" & 6'-0" AFF.
 - SHELF ABOVE WASHER @ 5'-6" AFF.
 - MAINTAIN MIN. 3'-0" CLEAR BETWEEN FINISHES AND FURNITURE, TYP.
 - CENTER LIGHTING FIXTURE ABOVE LAVATORY.
 - WASHER BOX.
 - DRYER VENT.
 - COMBO WASHER / DRYER BOX
 - MOVABLE KITCHEN ISLAND
 - PROVIDE FAN RATED REINFORCED J-BOX
 - ATTIC ACCESS, TOP FLOOR UNITS ONLY.
 - WATER HEATER, SEE PLUMBING DRAWINGS.
 - ACCESS PANEL FOR MECH. UNIT.
 - FRAMELESS MIRROR.
 - WASHER.
 - DRYER.
 - STACKED WASHER/DRYER COMBO.
 - ICE MAKER CONNECTION.

ISSUE HISTORY

No.	Date	Description

REVISION HISTORY

No.	Date	Description



K1 UNIT 2B - DIMENSION & REFERENCE PLAN
 3/8" = 1'-0"

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 2555 Temple Trail, Winter Park, FL 32789 (407) 629-0595
 www.fuglebergkoch.com AA26002103



THE ROBERT - MADISON

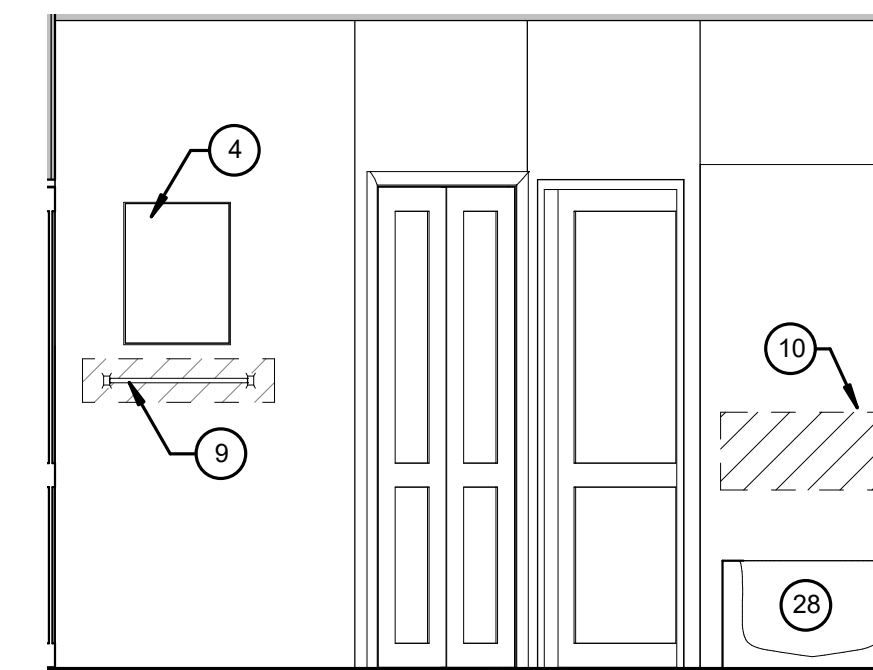
Drawn	MB
Checked	JK
Approval	MS
Date	04/15/2022
Project #	572

UNIT 2B - 2BR UNIT PLAN

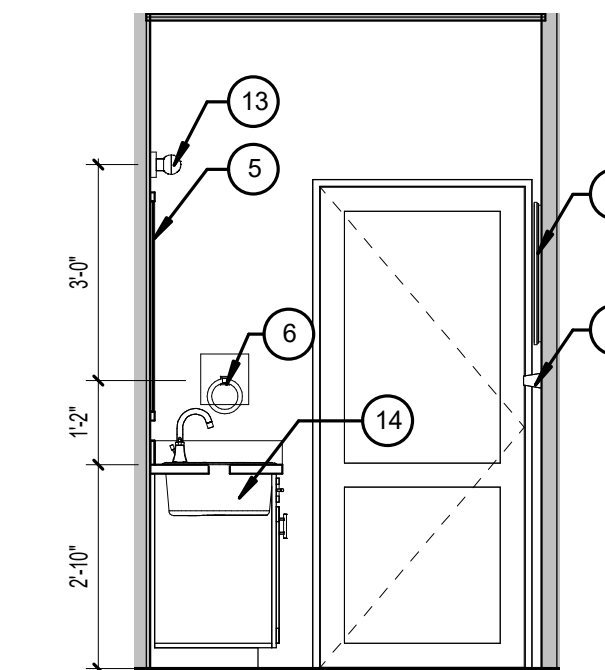
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**BATH & KITCHEN
LEGEND:** (X)

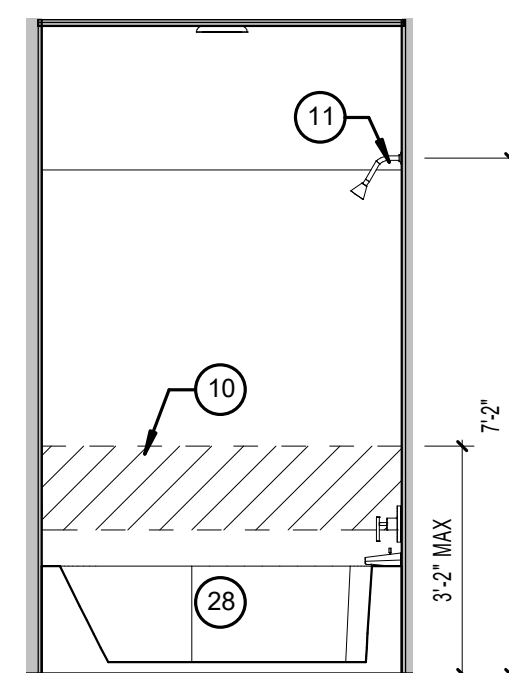
1. 18" TOWEL BAR
2. TOILET TISSUE HOLDER
3. CURVED SHOWER ROD
4. MEDICINE CABINET
5. MIRROR
6. HAND TOWEL RING
7. SOAP DISH
8. RECESSED CABINET ABOVE W.C.
9. 24" TOWEL BAR
10. GRAB BAR REINFORCEMENT, BTWN. 2'-6" MAX. A.F.F. & 3'-2" MIN. A.F.F. (GRAB BARS TO BE INSTALLED IN ALL ANSI TYPE 'A' UNITS)
11. SHOWER HEAD
12. WATER CLOSET (STD. HT.)
13. LIGHT FIXTURE (SEE ELECTRICAL)
14. SINK
15. MICROWAVE
16. RANGE
17. DISHWASHER
18. REFRIGERATOR
19. OVEN
20. ANSI OVEN
21. VANITY CABINET W/SINK
22. 36" TUB
23. EXHAUST FAN
24. 32" TUB
25. 6X6 TILE
26. HAND HELD/FIXED SHOWER SPRAY UNIT W/HOSE 60" MIN. LONG AND ADJUSTABLE BAR REMOVABLE IN TUB SEAT
27. REMOVABLE IN TUB SEAT
28. FIBERGLASS TUB W/ TILE SURROUND
29. GLASS SHOWER ENCLOSURE W/ TILE WALLS & ACRYLIC PRE-FABRICATED PAN.



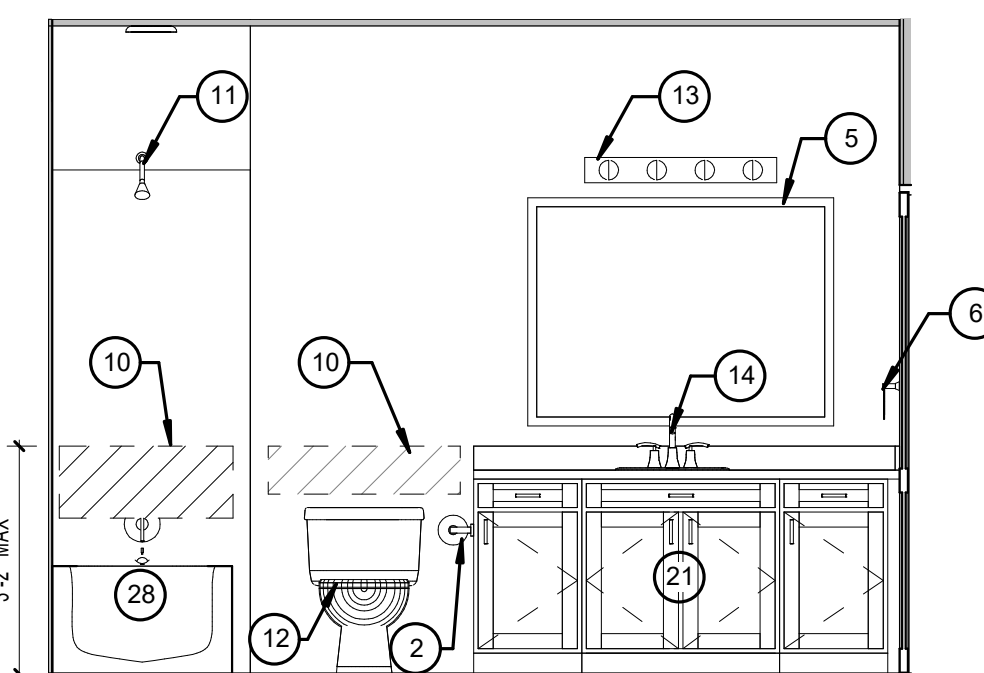
F2 UNIT 2B - ENLARGED ELEVATION
3/8" = 1'-0"



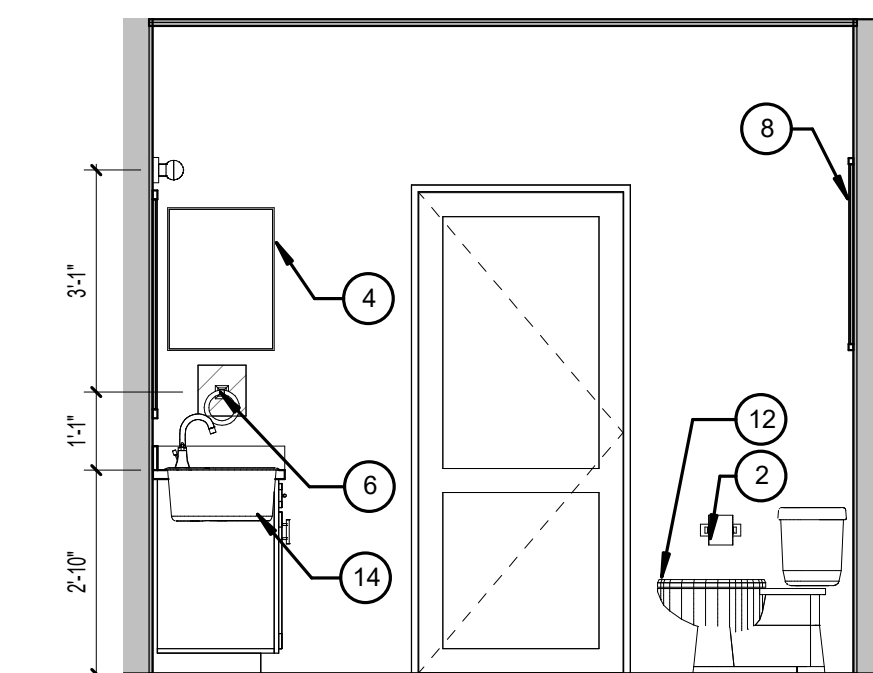
F1 UNIT 2B - ENLARGED ELEVATION
3/8" = 1'-0"



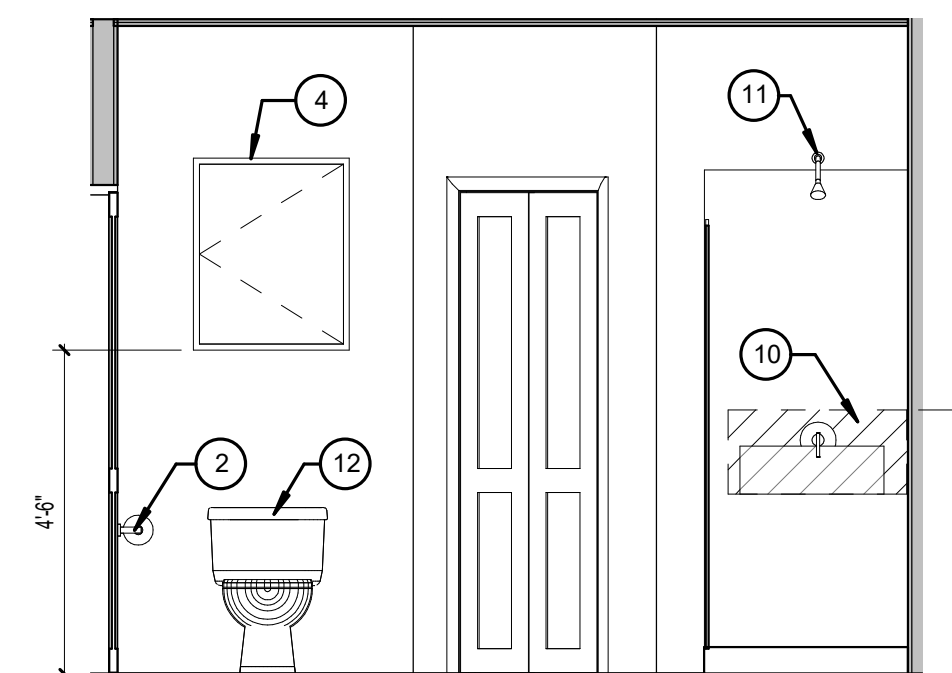
H4 UNIT 2B - ENLARGED ELEVATION
3/8" = 1'-0"



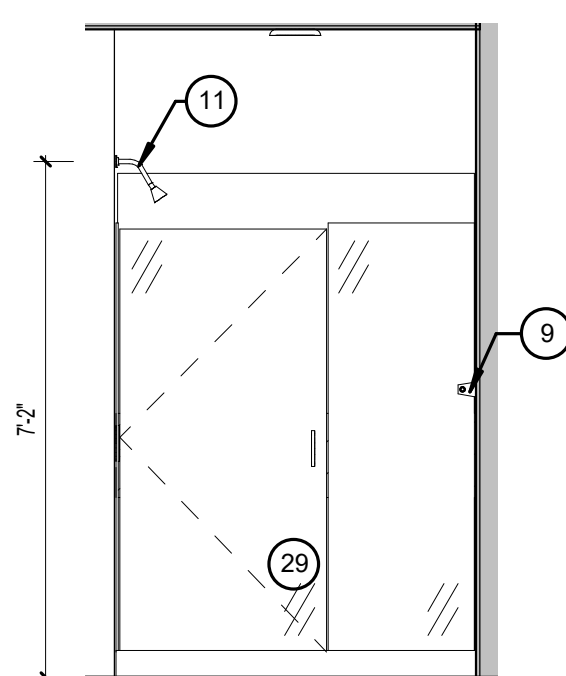
H3 UNIT 2B - ENLARGED ELEVATION
3/8" = 1'-0"



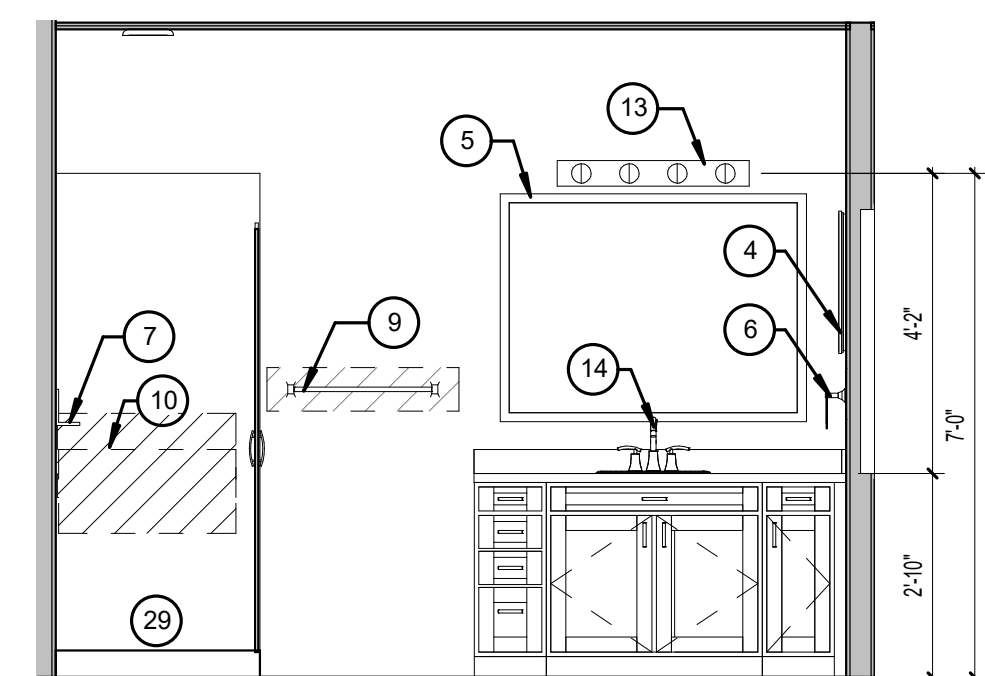
H2 UNIT 2B - ENLARGED ELEVATION
3/8" = 1'-0"



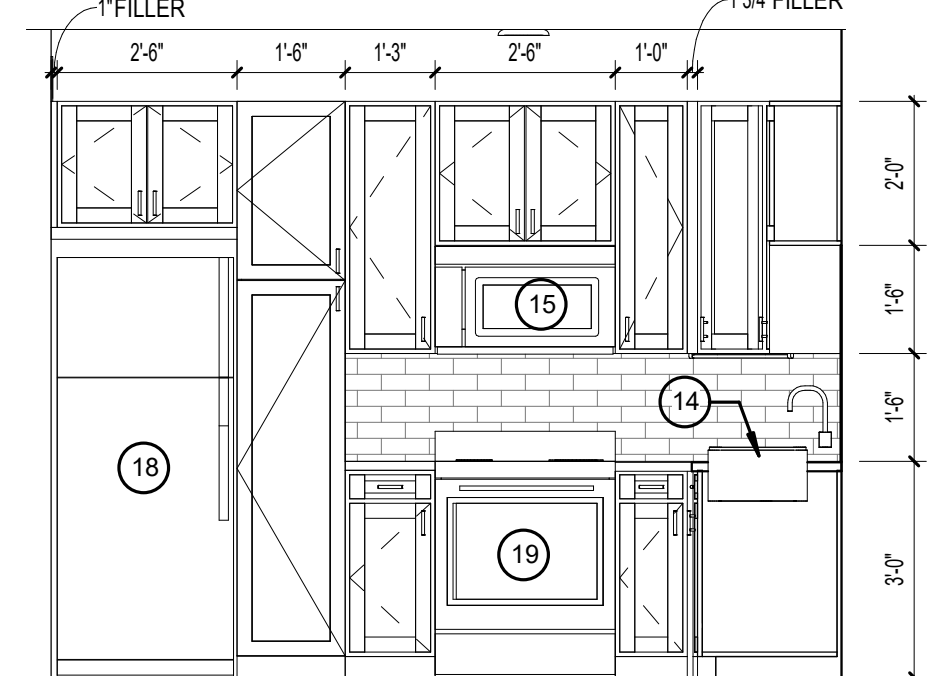
H1 UNIT 2B - ENLARGED ELEVATION
3/8" = 1'-0"



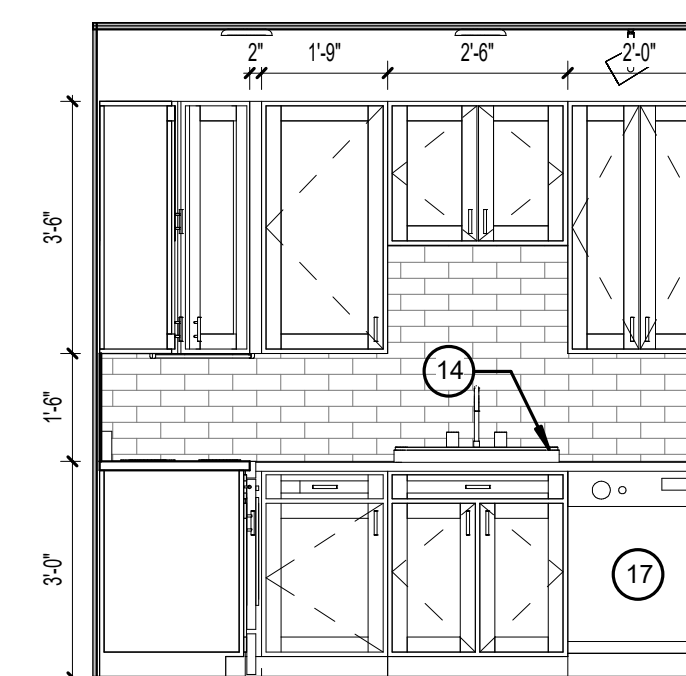
K4 UNIT 2B - ENLARGED ELEVATION
3/8" = 1'-0"



K3 UNIT 2B - ENLARGED ELEVATION
3/8" = 1'-0"



K2 UNIT 2B - ENLARGED ELEVATION
3/8" = 1'-0"



K1 UNIT 2B - ENLARGED ELEVATION
3/8" = 1'-0"

ISSUE HISTORY		
No.	Date	Description

REVISION HISTORY		
No.	Date	Description

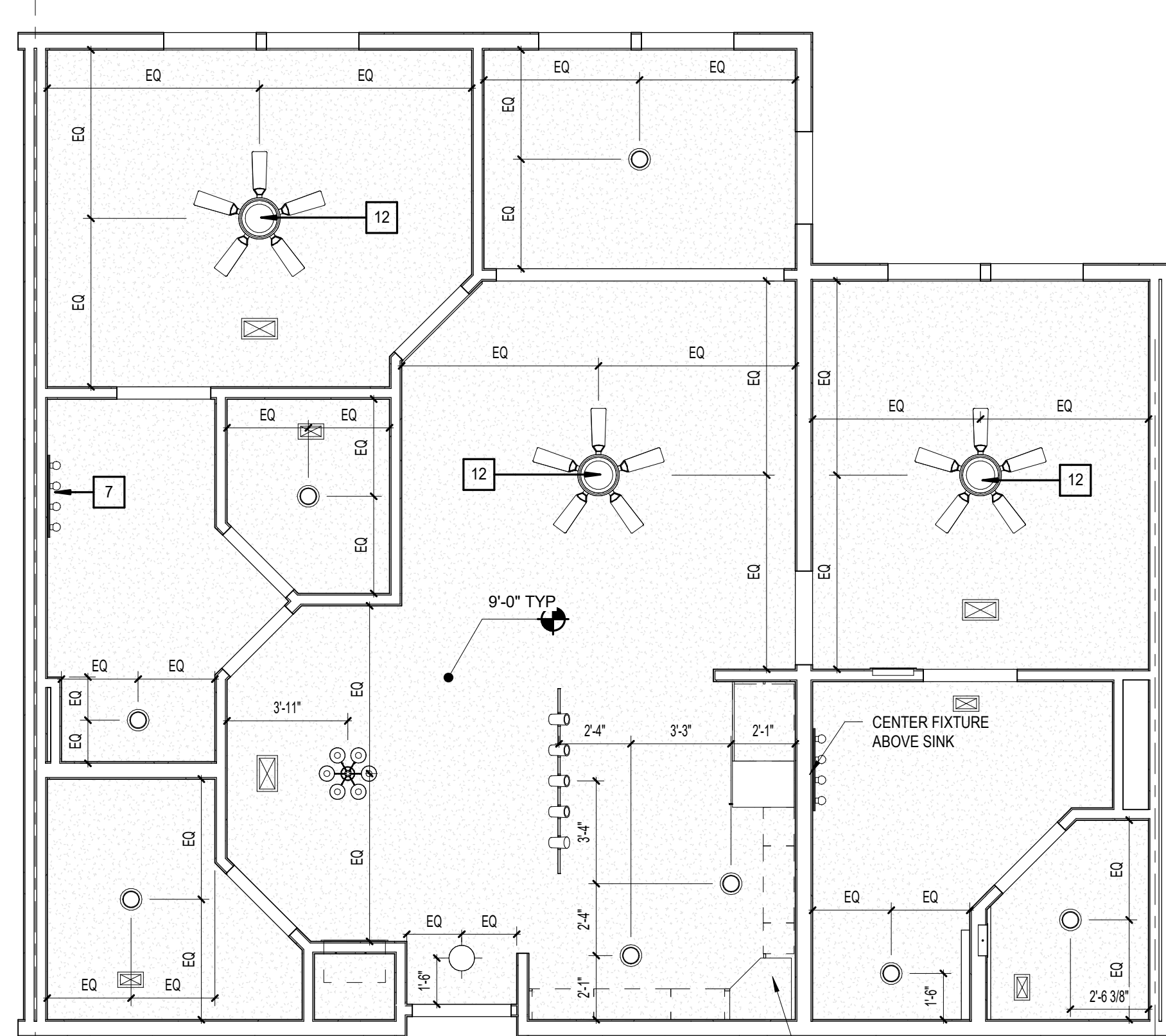
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 2555 Temple Trail, Winter Park, FL 32789 (407) 629-0595
 www.fuglebergkoch.com AA26002103



THE ROBERT - MADISON	Drawn: MB
MADISON, ALABAMA	Checked: JK
	Approval: MS
	Date: 04/15/2022
	Project #: 572

UNIT 2B - 2BR UNIT PLAN

A3.04a



E1 UNIT 2Bs w/ SOLARIUM - RCP
1/4" = 1'-0"

RCP LEGEND - UNITS	
	SMOKE DETECTOR
	LED FLUSH MOUNT - INTERIOR / EXTERIOR
	LED WALL MOUNT - INTERIOR
	PENDANT - CEILING MOUNTED
	LIGHT - WALL MOUNTED
	CEILING FAN - WITH LIGHT KIT
	MULTI FIXTURE VANITY LIGHT - WALL MOUNTED
	LED UNDER CABINET DOWNLIGHT
	SQUARE SUPPLY DIFFUSER - CEILING MOUNTED
	SQUARE RETURN DIFFUSER - CEILING MOUNTED
	SUPPLY DIFFUSER - WALL MOUNTED
	RETURN DIFFUSER - WALL MOUNTED
	ADA HORN/STROBE DEVICE - WALL MT.
	GYPSUM BOARD CEILING @ 9'-0"

NOTES:
1. RCP DIMS SHOWN ARE FROM FACE OF FINISH.
2. ALIGN UNDER CABINET LIGHTS WITH THE CENTER OF THE CABINET ABOVE.

LEGEND:	
	CLEAR FLOOR SPACE
	LEVEL CHANGE
	DENOTES BATHROOM ACCESSORY/KITCHEN APPLIANCE
	BATT INSULATION
	DENOTES BLOCKING FOR FUTURE GRAB BARS. REFER TO FHA CLEARANCES FOR MORE INFO.

BATH & KITCHEN LEGEND: (X)	
1.	18" TOWEL BAR
2.	TOILET TISSUE HOLDER
3.	CURVED SHOWER ROD
4.	MEDICINE CABINET
5.	MIRROR
6.	HAND TOWEL RING
7.	SOAP DISH
8.	RECESSED CABINET ABOVE W.C.
9.	24" TOWEL BAR
10.	GRAB BAR REINFORCEMENT, BTWN. 2'-6" MAX. A.F.F. & 3'-2" MIN. A.F.F. - GRAB BARS TO BE INSTALLED IN ALL ANSI TYPE 'A' UNITS)
11.	SHOWER HEAD
12.	WATER CLOSET STD. HIT
13.	LIGHT FIXTURE (SEE ELECTRICAL)
14.	SINK
15.	MICROWAVE
16.	RANGE
17.	DISHWASHER
18.	REFRIGERATOR
19.	OVEN
20.	ANSI OVEN
21.	VANITY CABINET W/SINK
22.	32" TUB
23.	EXHAUST FAN
24.	32" TUB
25.	6x6 TILE
26.	HAND HELD/FIXED SHOWER SPRAY UNIT WHOSE 60" MIN. LONG AND ADJUSTABLE BAR
27.	REMOVABLE IN TUB SEAT
28.	FIBERGLASS TUB W/ TILE SURROUND
29.	GLASS SHOWER ENCLOSURE W/ TILE WALLS & ACRYLIC PRE-FABRICATED PAN.

UNIT 2Bs - Total Gross Area Schedule					
Name	Area	Bedrooms	Baths	Den	Occupants
UNIT 2Bs	1099 SF	2	2		
	1099 SF				

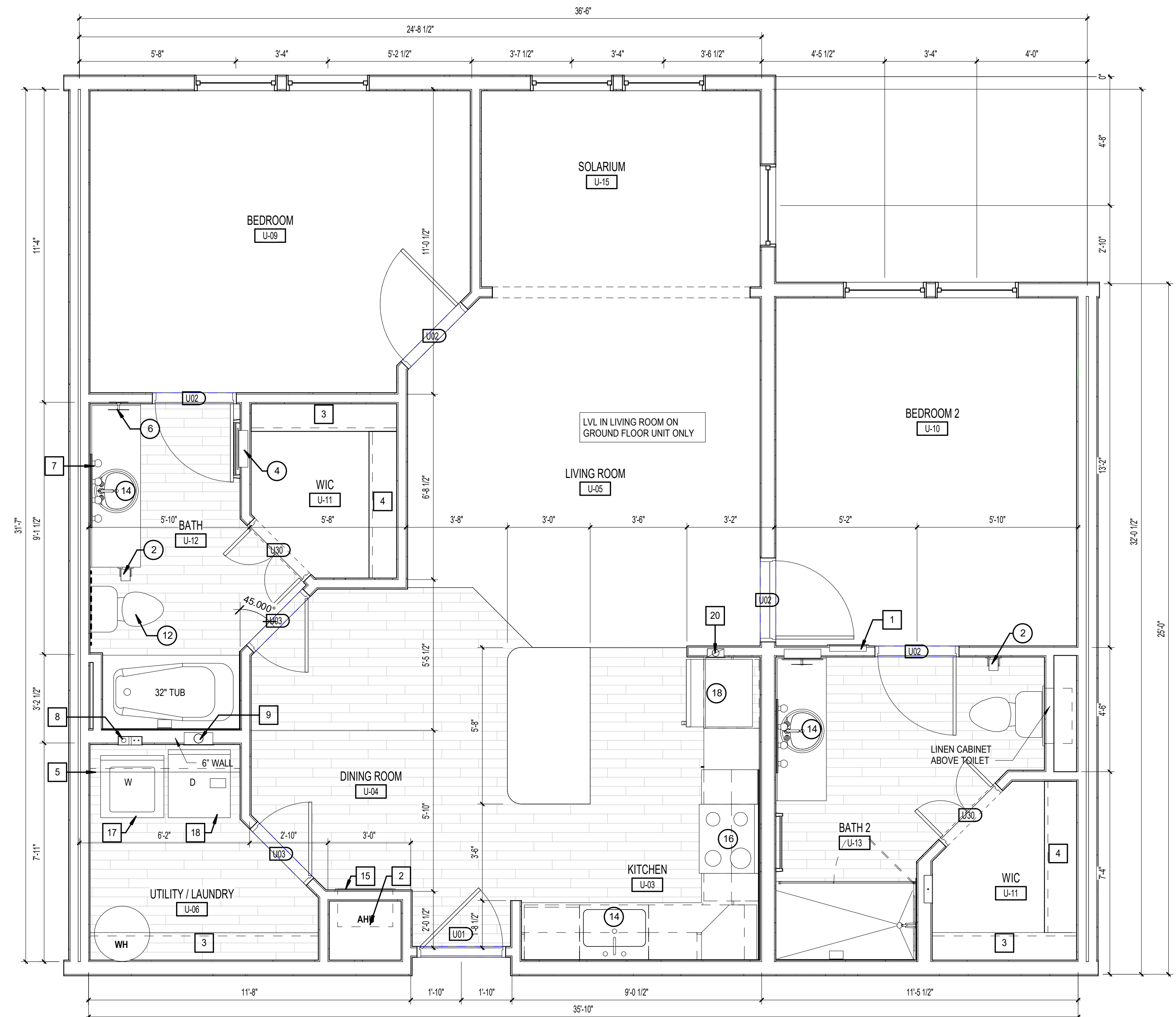
UNIT 2Bs - Total Net Area				
Unit Descriptor	Area	Bedrooms	Baths	Den
UNIT 2Bs	1,049 SF	1	1	
	1,049 SF			

- GENERAL NOTES:**
- ALL DIMENSIONS ARE FROM OUTSIDE FACE OF STUD UNLESS NOTED OTHERWISE.
 - REFER TO EXTERIOR ELEVATIONS AND BUILDING PLANS FOR WINDOW TYPE.
 - CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
 - REFER TO A3.30-A3.32 FOR BALCONY PLANS SPECIFIC TO EACH UNIT AS IT OCCURS THROUGHOUT.
 - ALL PLUMBING WALLS NEED TO BE COORDINATED WITH PLUMBER TO DETERMINE 2x4 OR 2x6 CONSTRUCTION.
 - PROVIDE ONE 4-A, 10-B-C 5 lb FIRE EXTINGUISHER PER UNIT. LOCATE PER FIRE DEPARTMENT REQUIREMENTS.
 - PROVIDE ACOUSTICAL UNDERLAYMENT UNDERNEATH VINYL PLANK FLOORING LOCATIONS WITHIN UNITS ON ELEVATED FLOORS. REFER TO SPECIFICATIONS FOR APPROVED PRODUCT.
 - PROVIDE DISPOSER AT ALL KITCHEN SINKS. REFER TO PLANS FOR AIR SWITCH LOCATION. PLACE ON SAME SIDE AS DISPOSER.
 - CLOSET RODS:
 - 12" DEEP TOP OF SHELVING IN CLOSETS SHALL BE AT 3'-0" AND 6'-0". SEE PLANS.
 - 12" DEEP SHELVING AT PANTRIES & LINEN CLOSETS 5 SHELVES EQUALLY SPACED @ 13" A PART (16", 29", 42", 55" AND 68").
 - PROVIDE (5) 18" X 12" DEEP LINEN SHELVES EQUALLY SPACED AT BEDROOM CLOSET ENDS WHERE INDICATED.
 - SHELVING AT LAUNDRY ROOMS - 24" DEEP @ 5'-7". SHELVING AT ENTRY CLOSETS - 12" DEEP @ 6'-0".
 - KITCHEN OUTLETS SHALL BE SPACED PER NEC. FHA REQUIRES THAT OUTLETS BE PLACED NO LESS THAN 3'-0" FROM THE CORNER UNLESS AN ADDITIONAL OUTLET IS ADDED. KITCHEN ELEVATIONS INDICATE APPROXIMATE DIMENSIONS NEEDED TO MEET BOTH NEC AND FHA. 4'-0" O.C. MAX. BETWEEN OUTLETS SHALL BE PROVIDED AROUND A CORNER.
 - SEE SHEET A3.10 FOR STANDARD MOUNTING HEIGHTS AND DETAILS.
 - PROVIDE WINDOW-EASE OPENING DEVICE AT ACCESSIBLE UNIT OPERABLE WINDOWS (WWW.WINDOWEASE.COM).

- UNIT KEYNOTES: (X)**
- ELECTRICAL PANEL. REFER TO ELECTRICAL DWGS.
 - HVAC UNIT. SEE MECHANICAL DRAWINGS.
 - WIRE SHELF 4 POLE @ 6'-0"
 - WIRE SHELF @ 3'-4" & 6'-0" AFF.
 - SHELF ABOVE WASHER @ 5'-6" AFF.
 - MAINTAIN MIN. 3'-0" CLEAR BETWEEN FINISHES AND FURNITURE. TYP.
 - CENTER LIGHTING FIXTURE ABOVE LAVATORY.
 - WASHER BOX
 - DRYER VENT
 - COMBO WASHER / DRYER BOX
 - MOVABLE KITCHEN ISLAND
 - PROVIDE FAN RATED REINFORCED J-BOX
 - ATTIC ACCESS. TOP FLOOR UNITS ONLY.
 - WATER HEATER. SEE PLUMBING DRAWINGS.
 - ACCESS PANEL FOR MECH. UNIT.
 - FRAMELESS MIRROR.
 - WASHER.
 - DRYER.
 - STACKED WASHER/DRYER COMBO.
 - ICE MAKER CONNECTION.

ISSUE HISTORY		
No.	Date	Description

REVISION HISTORY		
No.	Date	Description



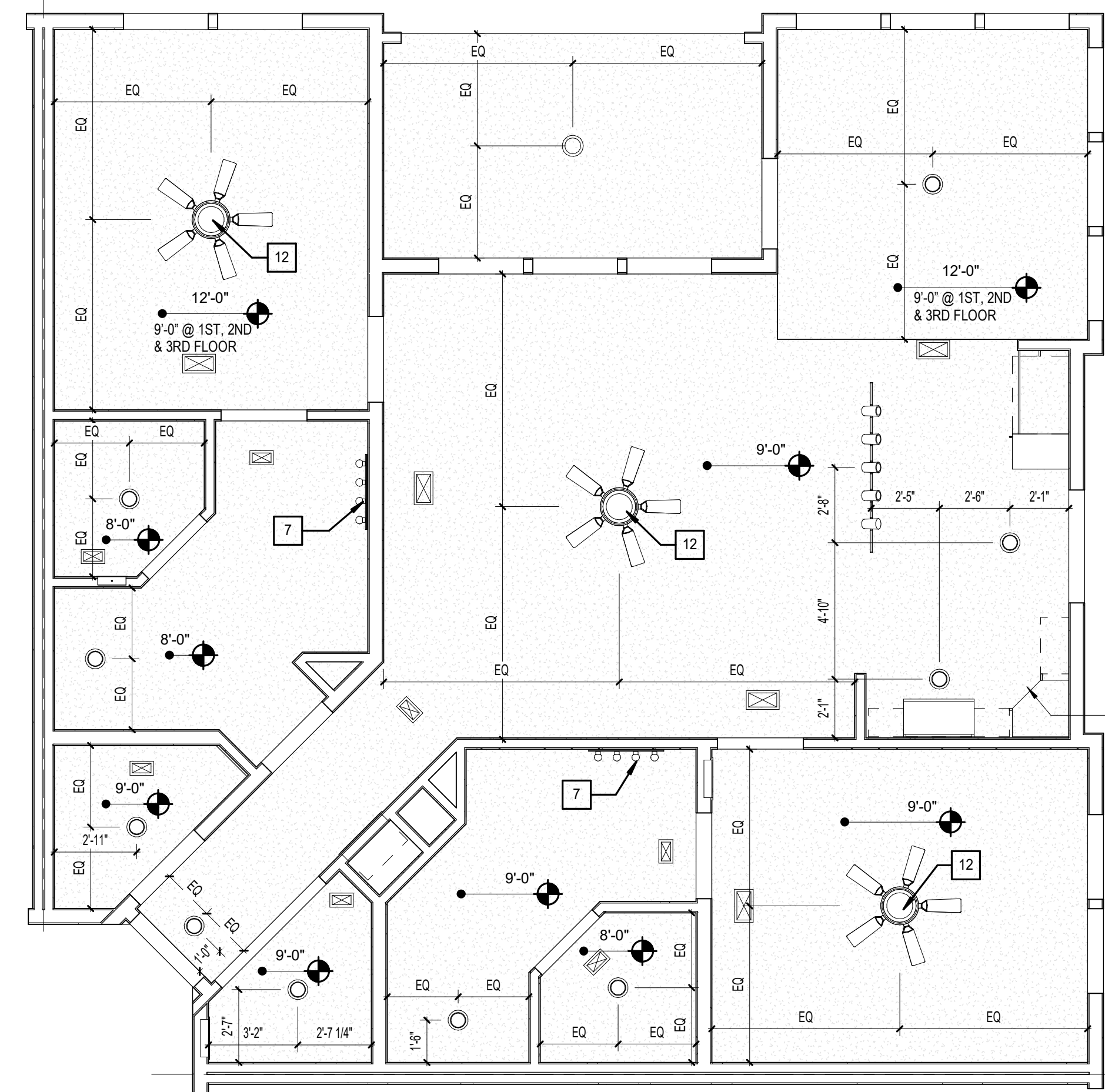
1 UNIT 2Bs - w/ SOLARIUM - DIMENSION & REFERENCE PLAN
3/8" = 1'-0"

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2555 Temple Trail, Winter Park, FL 32789 (407) 629-0595
www.fuglebergkoch.com AA26002103



Drawn	MS
Checked	JK
Approval	MS
Date	04/15/2022
Project #	572

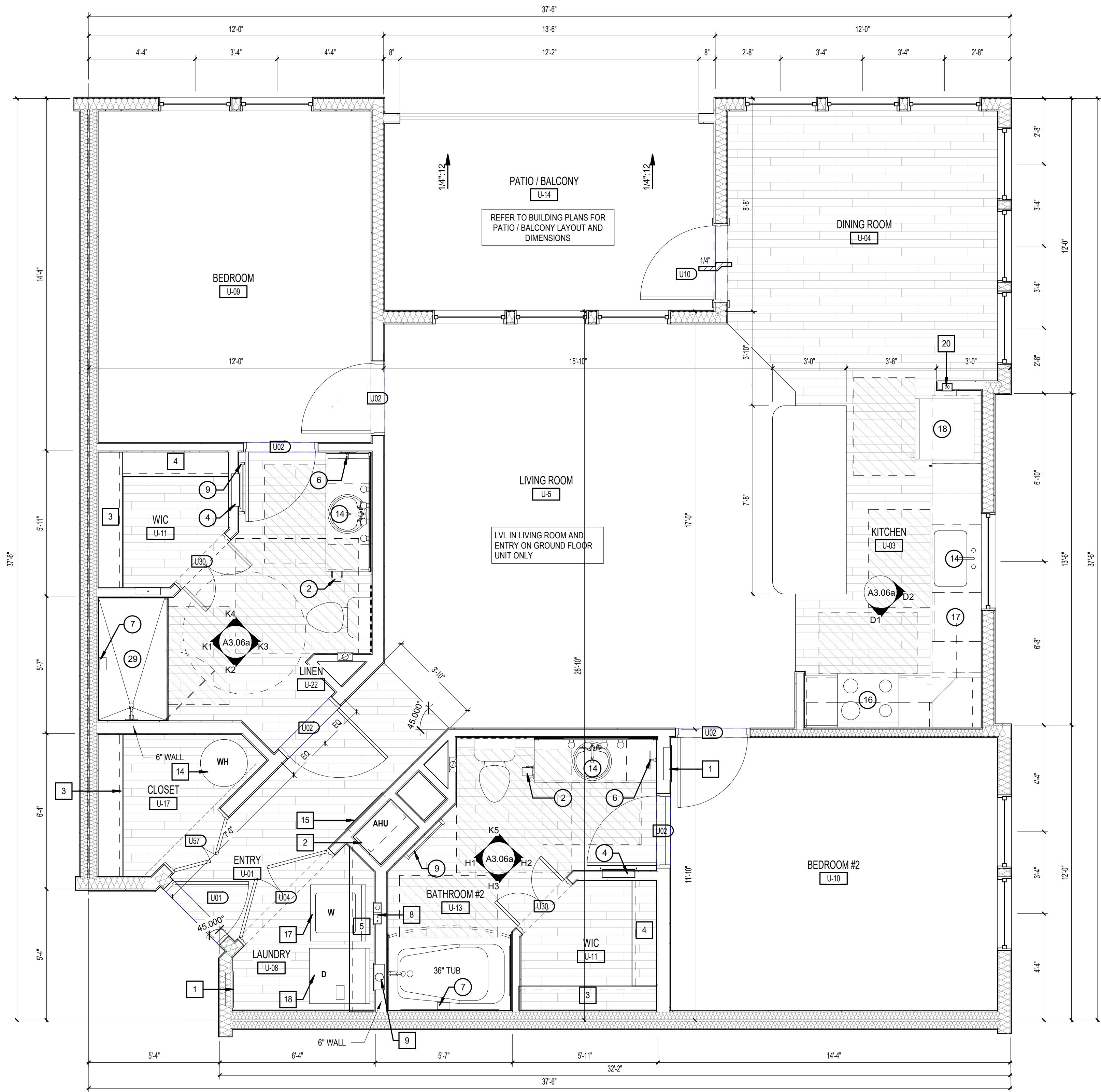
THE ROBERT - MADISON
MADISON, ALABAMA
UNIT 2Bs - 2BR WITH SOLARIUM
A3.05



RCP LEGEND - UNITS	
	SMOKE DETECTOR
	LED FLUSH MOUNT - INTERIOR / EXTERIOR
	LED WALL MOUNT - INTERIOR
	PENDANT - CEILING MOUNTED
	LIGHT - WALL MOUNTED
	CEILING FAN - WITH LIGHT KIT
	MULTI FIXTURE VANITY LIGHT - WALL MOUNTED
	LED UNDER CABINET DOWNLIGHT
	SQUARE SUPPLY DIFFUSER - CEILING MOUNTED
	SQUARE RETURN DIFFUSER - CEILING MOUNTED
	SUPPLY DIFFUSER - WALL MOUNTED
	RETURN DIFFUSER - WALL MOUNTED
	ADA HORN/STROBE DEVICE - WALL MT.
	GYPSUM BOARD CEILING @ 9'-0"

NOTES:
 1. RCP DIMS SHOWN ARE FROM FACE OF FINISH.
 2. ALIGN UNDER CABINET LIGHTS WITH THE CENTER OF THE CABINET ABOVE.

D1 UNIT 2C - CARRIAGE HOUSE - RCP
 1/4" = 1'-0"



1 UNIT 2C - DIMENSIONS & REFERENCE PLAN
 3/8" = 1'-0"

LEGEND:	
	CLEAR FLOOR SPACE
	LEVEL CHANGE
	DENOTES BATHROOM ACCESSORY/KITCHEN APPLIANCE
	BATT INSULATION
	DENOTES BLOCKING FOR FUTURE GRAB BARS. REFER TO FHA CLEARANCES FOR MORE INFO.

UNIT 2C - Total Gross Area Schedule					
Name	Area	Bedrooms	Baths	Den	Occupants
UNIT 2C	1255 SF	2	2		
BALCONY	108 SF				
	1363 SF				

UNIT 2C - Total Net Area				
Unit Descriptor	Area	Bedrooms	Baths	Den
UNIT 2C	1,189 SF	2	2	
	1,189 SF			

- ### BATH & KITCHEN LEGEND: (X)
- 16" TOWEL BAR
 - TOILET TISSUE HOLDER
 - CURVED SHOWER ROD
 - MEDICINE CABINET
 - MIRROR
 - HAND TOWEL RING
 - SCAFF DISH
 - RECESSED CABINET ABOVE W.C.
 - 24" TOWEL BAR
 - GRAB BAR REINFORCEMENT: BTWN 2'-6" MAX. A.F.F. & 3'-2" MIN. A.F.F. (GRAB BARS TO BE INSTALLED IN ALL ANSI TYPE 'A' UNITS)
 - SHOWER HEAD
 - WATER CLOSET STD. HT.
 - LIGHT FIXTURE (SEE ELECTRICAL)
 - SINK
 - MICROWAVE
 - RANGE
 - DISHWASHER
 - REFRIGERATOR
 - OVEN
 - ANSI OVEN
 - VANITY CABINET W/SINK
 - 36" TUB
 - EXHAUST FAN
 - 32" TUB
 - 6X6 TILE
 - HAND HELD/FIXED SHOWER SPRAY UNIT W/HOSE 66" MIN. LONG AND ADJUSTABLE BAR
 - REMOVABLE IN TUB SEAT
 - FIBERGLASS TUB W/ TILE SURROUND
 - GLASS SHOWER ENCLOSURE W/ TILE WALLS & ACRYLIC PRE-FABRICATED PAN.

- ### GENERAL NOTES:
- ALL DIMENSIONS ARE FROM OUTSIDE FACE OF STUD UNLESS NOTED OTHERWISE.
 - REFER TO EXTERIOR ELEVATIONS AND BUILDING PLANS FOR WINDOW TYPE.
 - CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
 - REFER TO A3.30 - A3.32 FOR BALCONY PLANS SPECIFIC TO EACH UNIT AS IT OCCURS.
 - THROUGHOUT.
 - ALL PLUMBING WALLS NEED TO BE COORDINATED WITH PLUMBER TO DETERMINE 2X4 OR 2X6 CONSTRUCTION.
 - PROVIDE ONE 4-A, 10-B & 5-B FIRE EXTINGUISHER PER UNIT. LOCATE PER FIRE DEPARTMENT REQUIREMENTS.
 - PROVIDE ACoustICAL UNDERLAYMENT UNDERNEATH VINYL PLANK FLOORING LOCATIONS WITHIN UNITS ON ELEVATED FLOORS. REFER TO SPECIFICATIONS FOR APPROVED PRODUCT.
 - PROVIDE DISPOSER AT ALL KITCHEN SINKS. REFER TO PLANS FOR AIR SWITCH LOCATION. PLACE ON SAME SIDE AS DISPOSER.
 - CLOSET FLOORS:
 - 12" DEEP, TOP OF SHELVING IN CLOSETS SHALL BE AT 3'-4" AND 6'-0".
 - 17" DEEP SHELVING AT PANTRIES & LINEN CLOSETS; 5 SHELVES EQUALLY SPACED @ 13" A PART (16", 29", 42", 55" AND 68").
 - PROVIDE (5) 18" X 12" DEEP LINEN SHELVES EQUALLY SPACED AT BEDROOM/CLOSET ENDS WHERE INDICATED.
 - SHELVING AT LAUNDRY ROOMS - 24" DEEP @ 5'-7" SHELVING AT ENTRY CLOSETS - 12" DEEP @ 6'-0".
 - KITCHEN OUTLETS SHALL BE SPACED PER NEC. FHA REQUIRES THAT OUTLETS BE PLACED NO LESS THAN 3'-0" FROM THE CORNER UNLESS AN ADDITIONAL OUTLET IS ADDED. KITCHEN ELEVATIONS INDICATE APPROXIMATE DIMENSIONS NEEDED TO MEET BOTH NEC AND FHA. 4'-0" O.C. MAX. BETWEEN OUTLETS SHALL BE PROVIDED AROUND A CORNER.
 - SEE SHEET A3.10 FOR STANDARD MOUNTING HEIGHTS AND DETAILS.
 - PROVIDE WINDOW/EASE OPENING DEVICE AT ACCESSIBLE UNIT OPERABLE WINDOWS (WWW.WINDOWEASE.COM).

- ### UNIT KEYNOTES: (X)
- ELECTRICAL PANEL. REFER TO ELECTRICAL DWGS.
 - HVAC UNIT. SEE MECHANICAL DRAWINGS.
 - WIRE SHELF & POLE @ 6'-0"
 - WIRE SHELF @ 3'-4" & 6'-0" AFF.
 - SHELF ABOVE WASHER @ 5'-4" AFF.
 - MAINTAIN MIN. 3'-0" CLEAR BETWEEN FINISHES AND FURNITURE. TYP.
 - CENTER LIGHTING FIXTURE ABOVE LAVATORY.
 - WASHER BOX.
 - DRYER VENT.
 - COMBO WASHER / DRYER BOX
 - MOVABLE KITCHEN ISLAND
 - PROVIDE FAN RATED REINFORCED J-BOX
 - ATTIC ACCESS. TOP FLOOR UNITS ONLY.
 - WATER HEATER. SEE PLUMBING DRAWINGS.
 - ACCESS PANEL FOR MECH. UNIT.
 - FRAMELESS MIRROR.
 - WASHER.
 - DRYER.
 - STACKED WASHER/DRYER COMBO
 - ICE MAKER CONNECTION.

ISSUE HISTORY		
No.	Date	Description

REVISION HISTORY		
No.	Date	Description

FUGLEBERG KOCH

2555 Temple Trail, Winter Park, FL 32789 (407) 629-0595
 www.fuglebergkoch.com AA26002103

CONSULTANT
 STATE OF ALABAMA
 FUGLEBERG KOCH
 8234
 4/15/22
 REGISTERED ARCHITECT

THE ROBERT - MADISON	
Drawn	MB
Checked	JK
Approval	MS
Date	04/15/2022
Project #	572

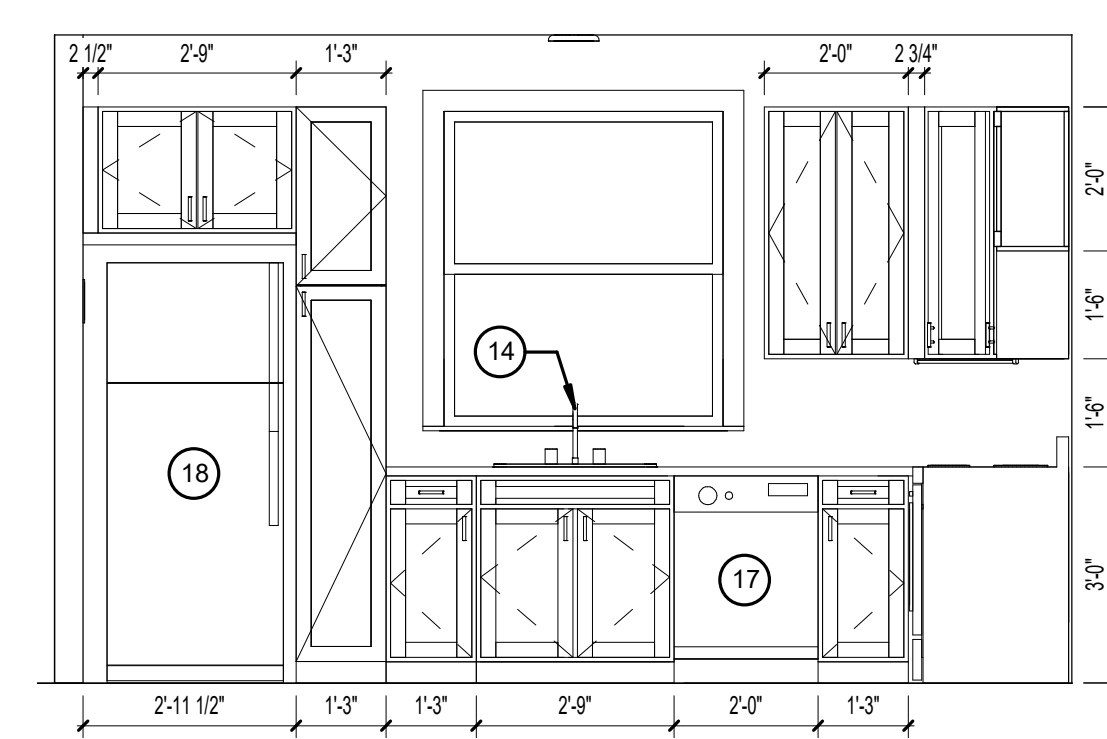
UNIT 2C - 2BR UNIT PLAN

A3.06

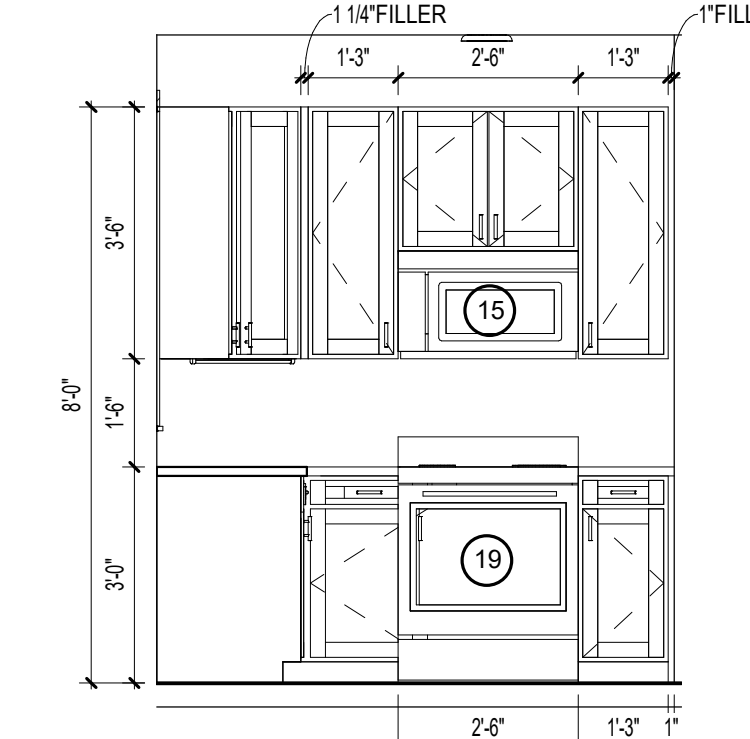
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BATH & KITCHEN LEGEND: (X)

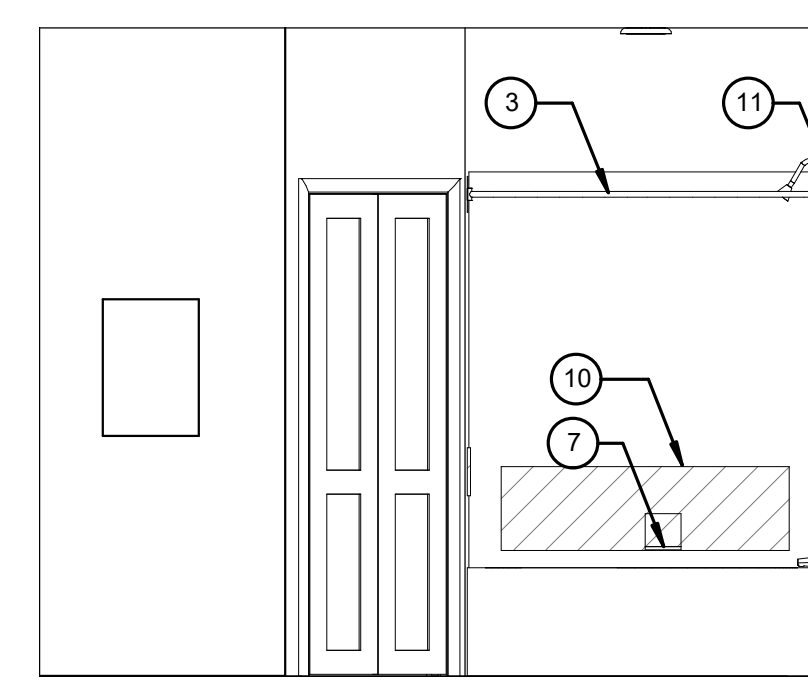
1. 18" TOWEL BAR
2. TOILET TISSUE HOLDER
3. CURVED SHOWER ROD
4. MEDICINE CABINET
5. MIRROR
6. HAND TOWEL RING
7. SOAP DISH
8. RECESSED CABINET ABOVE W.C.
9. 24" TOWEL BAR
10. GRAB BAR REINFORCEMENT, BTWN. 2'-6" MAX. A.F.F. & 3'-2" MIN. A.F.F. (GRAB BARS TO BE INSTALLED IN ALL ANSI TYPE 'K' UNITS)
11. SHOWER HEAD
12. WATER CLOSET STD. HT.
13. LIGHT FIXTURE (SEE ELECTRICAL)
14. SINK
15. MICROWAVE
16. RANGE
17. DISHWASHER
18. REFRIGERATOR
19. OVEN
20. ANSI OVEN
21. VANITY CABINET W/SINK
22. 36" TUB
23. EXHAUST FAN
24. 32" TUB
25. OIG TILE
26. HAND HELD/FIXED SHOWER SPRAY UNIT WHOSE 60" MIN. LONG AND ADJUSTABLE BAR
27. REMOVABLE IN TUB SEAT
28. FIBERGLASS TUB W/ TILE SURROUND
29. GLASS SHOWER ENCLOSURE W/ TILE WALLS & ACRYLIC PRE-FABRICATED PAN.



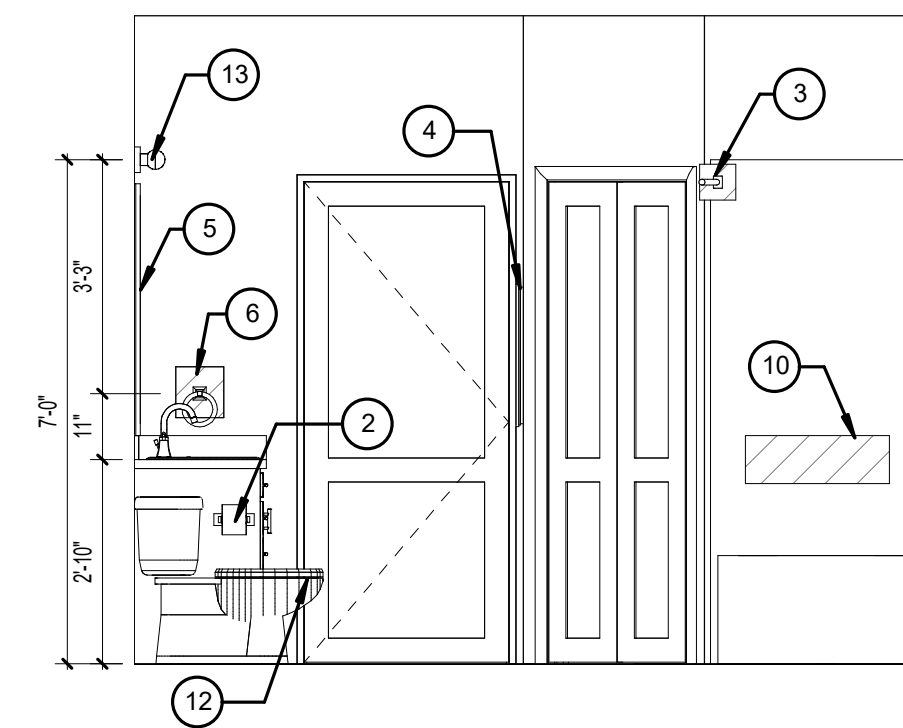
D2 Elevation 1 - c
3/8" = 1'-0"



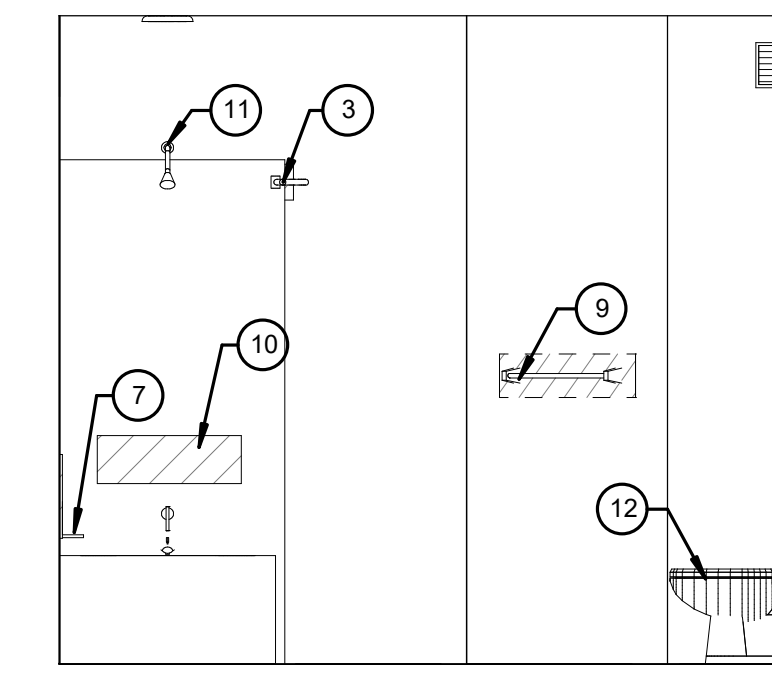
D1 Elevation 1 - d
3/8" = 1'-0"



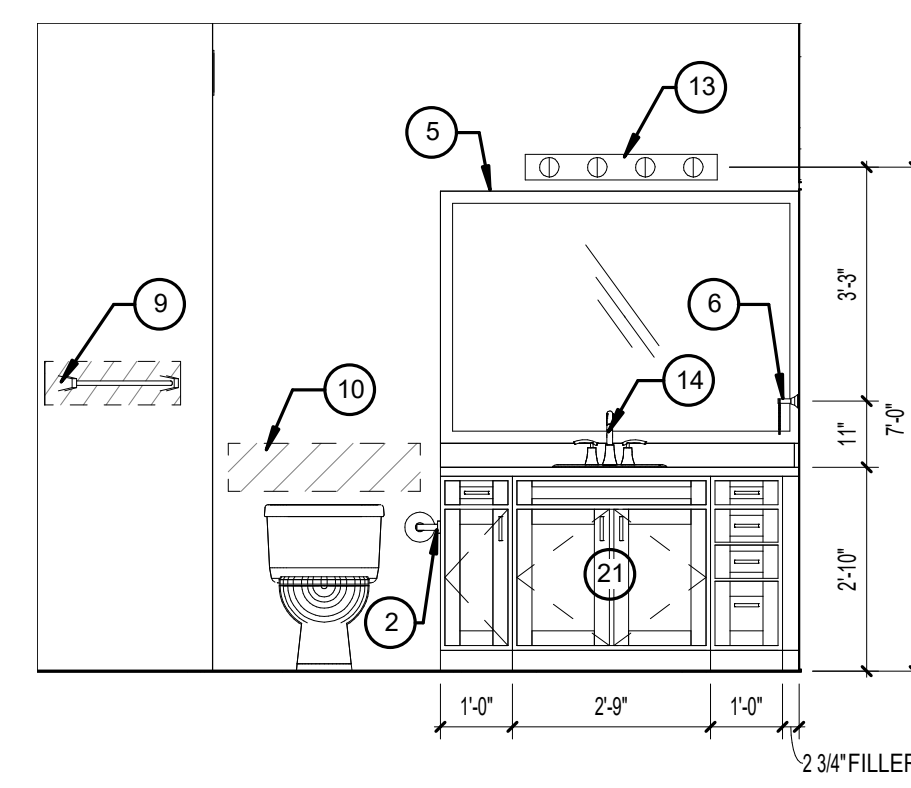
H3 UNIT 2B - ENLARGED ELEVATION
3/8" = 1'-0"



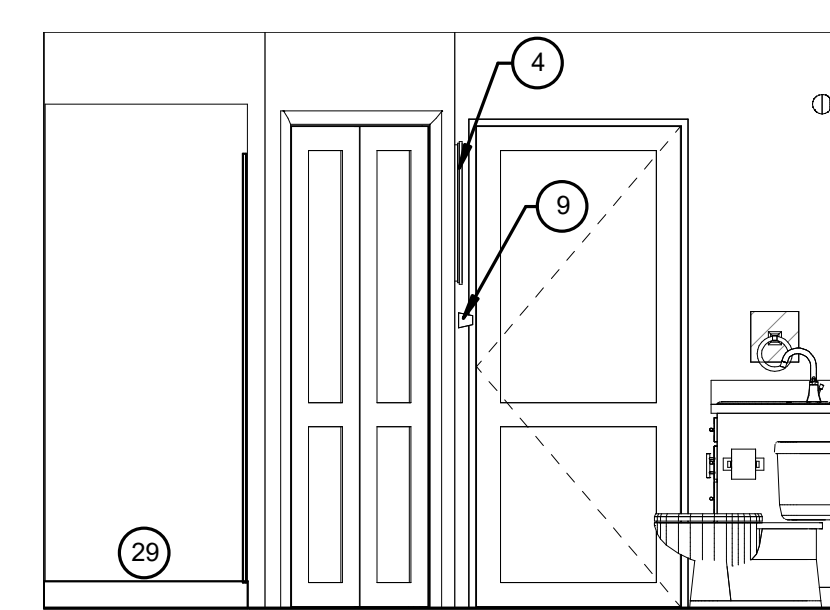
H2 UNIT 2B - ENLARGED ELEVATION
3/8" = 1'-0"



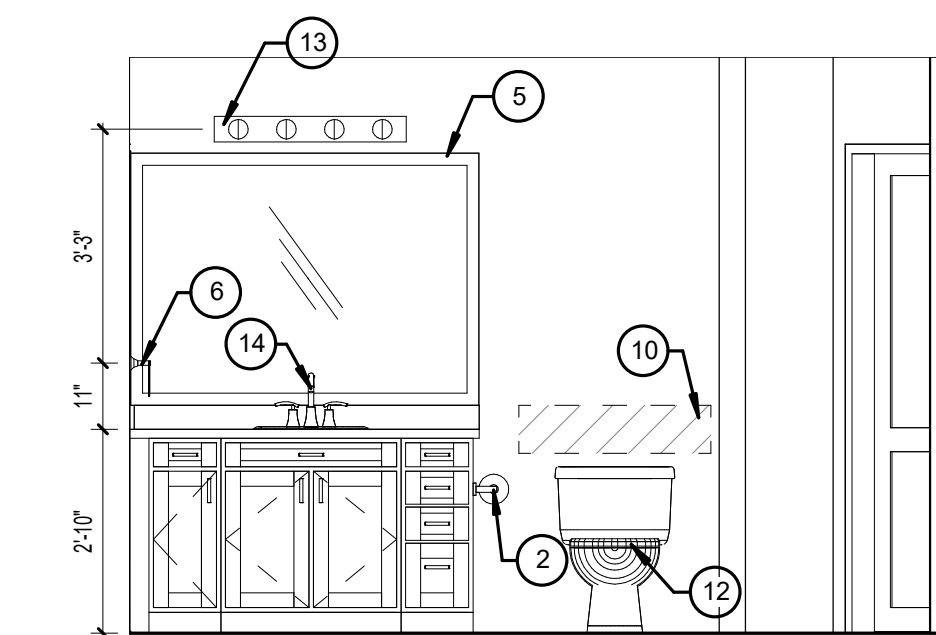
H1 UNIT 2B - ENLARGED ELEVATION
3/8" = 1'-0"



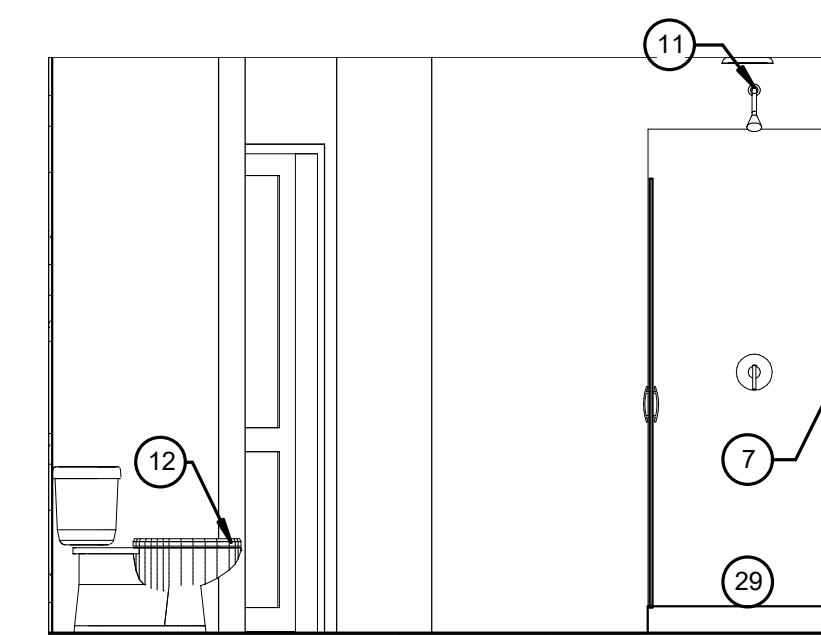
K5 UNIT 2B - ENLARGED ELEVATION
3/8" = 1'-0"



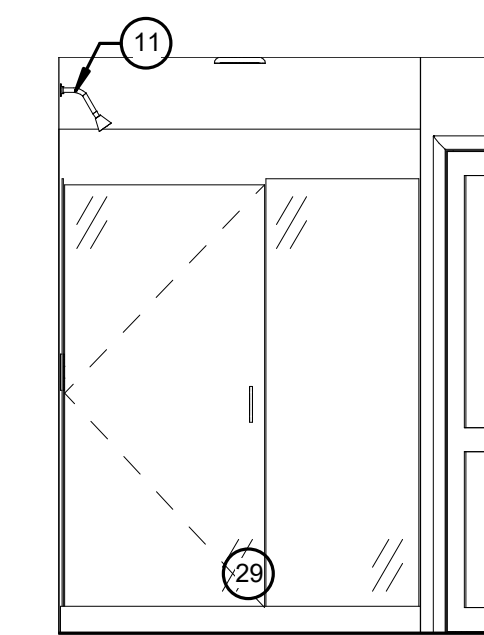
K4 UNIT 2B - ENLARGED ELEVATION
3/8" = 1'-0"



K3 UNIT 2B - ENLARGED ELEVATION
3/8" = 1'-0"



K2 UNIT 2B - ENLARGED ELEVATION
3/8" = 1'-0"



K1 UNIT 2B - ENLARGED ELEVATION
3/8" = 1'-0"

ISSUE HISTORY

No.	Date	Description

REVISION HISTORY

No.	Date	Description

No.	Date	Description

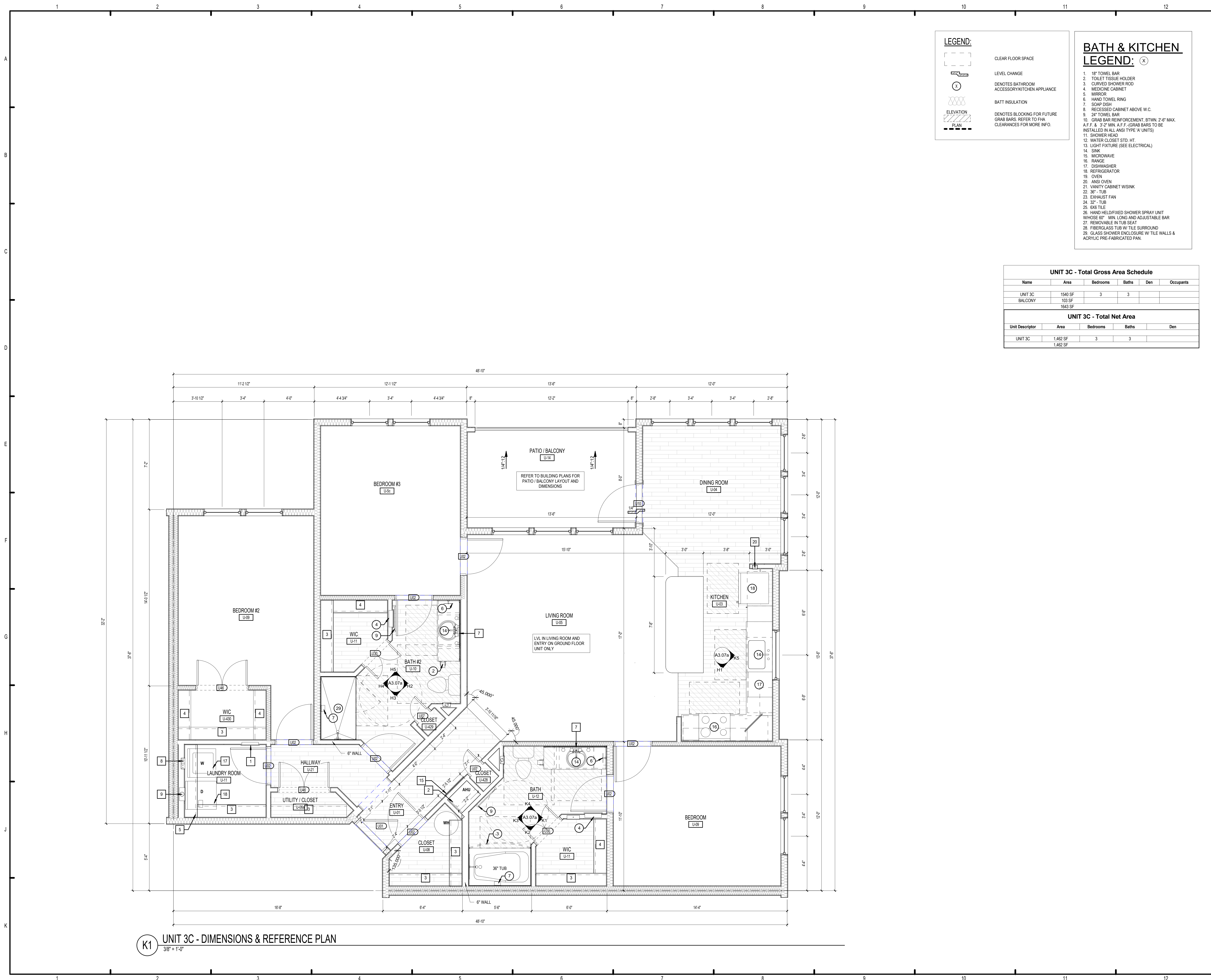
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THE ROBERT - MADISON
 MADISON, ALABAMA

UNIT 2B - 2 BR UNIT PLAN

A3.06a



K1 UNIT 3C - DIMENSIONS & REFERENCE PLAN
3/8" = 1'-0"

- LEGEND:**
- CLEAR FLOOR SPACE
 - LEVEL CHANGE
 - DENOTES BATHROOM ACCESSORY/KITCHEN APPLIANCE
 - DENOTES BATHROOM ACCESSORY/KITCHEN APPLIANCE
 - BATT INSULATION
 - DENOTES BLOCKING FOR FUTURE GRAB BARS; REFER TO FHA CLEARANCES FOR MORE INFO.
- BATH & KITCHEN LEGEND: (X)**
1. 18" TOWEL BAR
 2. TOILET TISSUE HOLDER
 3. CURVED SHOWER ROD
 4. MEDICINE CABINET
 5. MIRROR
 6. HAND TOWEL RING
 7. SOAP DISH
 8. RECESSED CABINET ABOVE W.C.
 9. 24" TOWEL BAR
 10. GRAB BAR REINFORCEMENT, BTWN 2'-6" MAX. A.F.F. & 3'-2" MIN. A.F.F. (GRAB BARS TO BE INSTALLED IN ALL ANSI TYPE 'A' UNITS)
 11. SHOWER HEAD
 12. WATER CLOSET STD. HT.
 13. LIGHT FIXTURE (SEE ELECTRICAL)
 14. SINK
 15. MICROWAVE
 16. RANGE
 17. DISHWASHER
 18. REFRIGERATOR
 19. OVEN
 20. ANSI OVEN
 21. VANITY CABINET W/SINK
 22. 36" - TUB
 23. EXHAUST FAN
 24. 12" - TUB
 25. 6X6 TILE
 26. HAND HELD FIXED SHOWER SPRAY UNIT WHOSE 60" MIN. LONG AND ADJUSTABLE BAR
 27. REMOVABLE IN TUB SEAT
 28. FIBERGLASS TUB W/ TILE SURROUND
 29. GLASS SHOWER ENCLOSURE W/ TILE WALLS & ACRYLIC PRE-FABRICATED PAN.

UNIT 3C - Total Gross Area Schedule

Name	Area	Bedrooms	Baths	Den	Occupants
UNIT 3C	1540 SF	3	3		
BALCONY	103 SF				
	1643 SF				

UNIT 3C - Total Net Area

Unit Descriptor	Area	Bedrooms	Baths	Den
UNIT 3C	1,462 SF	3	3	
	1,462 SF			

- GENERAL NOTES:**
1. ALL DIMENSIONS ARE FROM OUTSIDE FACE OF STUD UNLESS NOTED OTHERWISE.
 2. REFER TO EXTERIOR ELEVATIONS AND BUILDING PLANS FOR WINDOW TYPE.
 3. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
 4. REFER TO A3.30 - A3.52 FOR BALCONY PLANS SPECIFIC TO EACH UNIT AS IT OCCURS THROUGHOUT.
 5. ALL PLUMBING HALLS NEED TO BE COORDINATED WITH PLUMBER TO DETERMINE 2X4 OR 2X6 CONSTRUCTION.
 6. PROVIDE ONE 4-A, 10-B, C 5-B FIRE EXTINGUISHER PER UNIT. LOCATE PER FIRE DEPARTMENT REQUIREMENTS.
 7. PROVIDE ACOUSTICAL UNDERLAYMENT UNDERNEATH VINYL PLANK FLOORING. LOCATIONS WITHIN UNITS ON ELEVATED FLOORS. REFER TO SPECIFICATIONS FOR APPROVED PRODUCT.
 8. PROVIDE DISPOSER AT ALL KITCHEN SINKS. REFER TO PLANS FOR AIR SWITCH LOCATION, PLACE ON SAME SIDE AS DISPOSER.
 9. CLOSET RODS:
 - A. 12" DEEP, TOP OF SHELVING IN CLOSETS SHALL BE AT 3'-0" AND 6'-0". SEE PLANS.
 - B. 12" DEEP SHELVING AT PANTRIES & LINEN CLOSETS. 5 SHELVES EQUALLY SPACED @ 13" PART 16", 29", 42", 55" AND 68".
 - C. PROVIDE (6) 19" X 12" DEEP LINEN SHELVES EQUALLY SPACED AT BEDROOM CLOSET ENDS WHERE INDICATED.
 - D. SHELVING AT LAUNDRY ROOMS - 24" DEEP @ 5'-7". SHELVING AT ENTRY CLOSETS - 12" DEEP @ 6'-0".
 10. KITCHEN OUTLETS SHALL BE SPACED PER NEC. FHA REQUIRES THAT OUTLETS BE PLACED NO LESS THAN 3'-0" FROM THE CORNER UNLESS AN ADDITIONAL OUTLET IS ADDED. KITCHEN ELEVATIONS INDICATE APPROXIMATE DIMENSIONS NEEDED TO MEET BOTH NEC AND FHA. 4'-0" O.C. MAX. BETWEEN OUTLETS SHALL BE PROVIDED AROUND A CORNER.
 11. SEE SHEET A3.10 FOR STANDARD MOUNTING HEIGHTS AND DETAILS.
 12. PROVIDE WINDOW-CASE OPENING DEVICE AT ACCESSIBLE UNIT OPERABLE WINDOWS (WWW.WINDOWEASE.COM).

- UNIT KEYNOTES: (X)**
1. ELECTRICAL PANEL REFER TO ELECTRICAL DWGS.
 2. HVAC UNIT, SEE MECHANICAL DRAWINGS.
 3. WIRE SHELF & POLE @ 6'-0"
 4. WIRE SHELF @ 3'-4" & 4'-0" AFF.
 5. SHELF ABOVE WASHER @ 5'-6" AFF.
 6. MAINTAIN MIN. 3'-0" CLEAR BETWEEN FINISHES AND FURNITURE, TYP.
 7. CENTER LIGHTING FIXTURE ABOVE LAVATORY.
 8. WASHER BOX.
 9. DRYER VENT.
 10. COMBO WASHER / DRYER BOX.
 11. MOVABLE KITCHEN ISLAND.
 12. PROVIDE FAN RATED REINFORCED J-BOX.
 13. ATTIC ACCESS, TOP FLOOR UNITS ONLY.
 14. WATER HEATER, SEE PLUMBING DRAWINGS.
 15. ACCESS PANEL FOR MECH. UNIT.
 16. FRAMELESS MIRROR.
 17. WASHER.
 18. DRYER.
 19. STACKED WASHER/DRYER COMBO.
 20. ICE MAKER CONNECTION.

ISSUE HISTORY

No.	Date	Description

REVISION HISTORY

No.	Date	Description

FUGLEBERG KOCH

2555 Temple Trail, Winter Park, FL 32789 (407) 629-0595
www.fuglebergkoch.com AA26002103

CONSULTANT

STATE OF ALABAMA
MICHAEL E. KOCH
8234
4/15/22
REGISTERED ARCHITECT

THE ROBERT - MADISON

Drawn	MS
Checked	JK
Approval	MS
Date	04/15/2022
Project #	5722

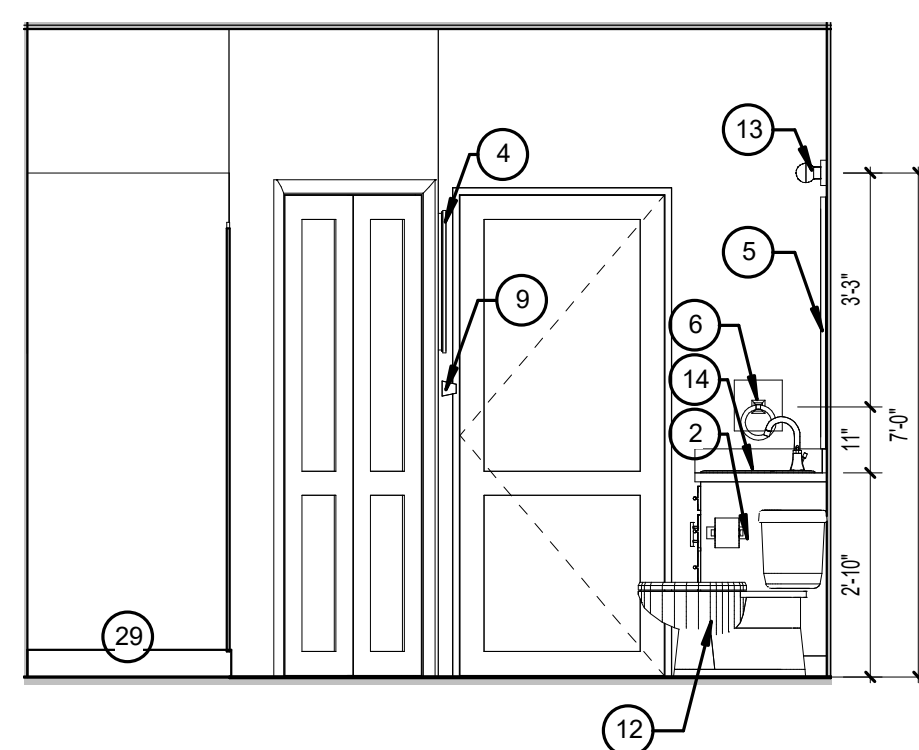
UNIT 3C - 3BR UNIT PLAN

A3.07

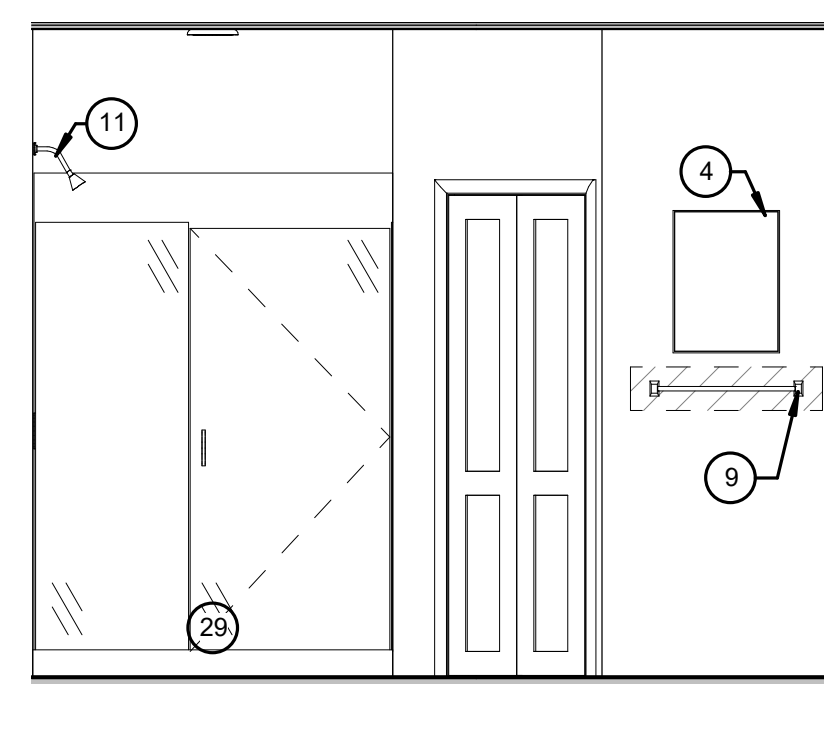
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**BATH & KITCHEN
LEGEND: (X)**

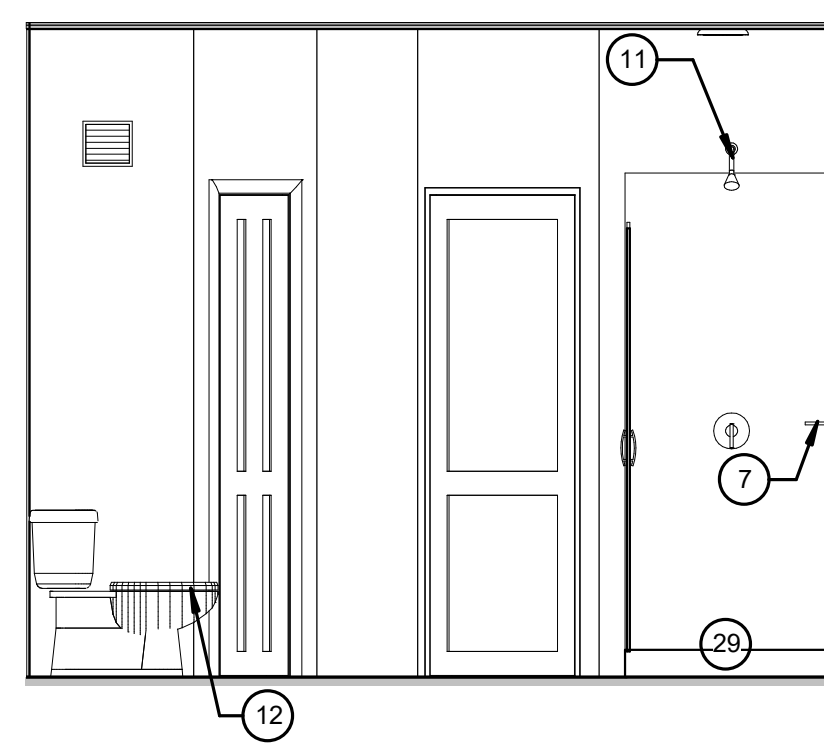
1. 18" TOWEL BAR
2. TOILET TISSUE HOLDER
3. CURVED SHOWER ROD
4. MEDICINE CABINET
5. MIRROR
6. HAND TOWEL RING
7. SOAP DISH
8. RECESSED CABINET ABOVE W.C.
9. 24" TOWEL BAR
10. GRAB BAR REINFORCEMENT, BTWN 2'-6" MAX.
11. SHOWER HEAD
12. WATER CLOSET STD. HT.
13. LIGHT FIXTURE (SEE ELECTRICAL)
14. SINK
15. MICROWAVE
16. RANGE
17. DISHWASHER
18. REFRIGERATOR
19. OVEN
20. ANSI OVEN
21. VANITY CABINET W/SINK
22. 36" TUB
23. EXHAUST FAN
24. 32" TUB
25. 6X6 TILE
26. HAND HELD/FIXED SHOWER SPRAY UNIT
27. REMOVABLE IN TUB SEAT
28. FIBERGLASS TUB W/ TILE SURROUND
29. GLASS SHOWER ENCLOSURE W/ TILE WALLS & ACRYLIC PRE-FABRICATED PAN.



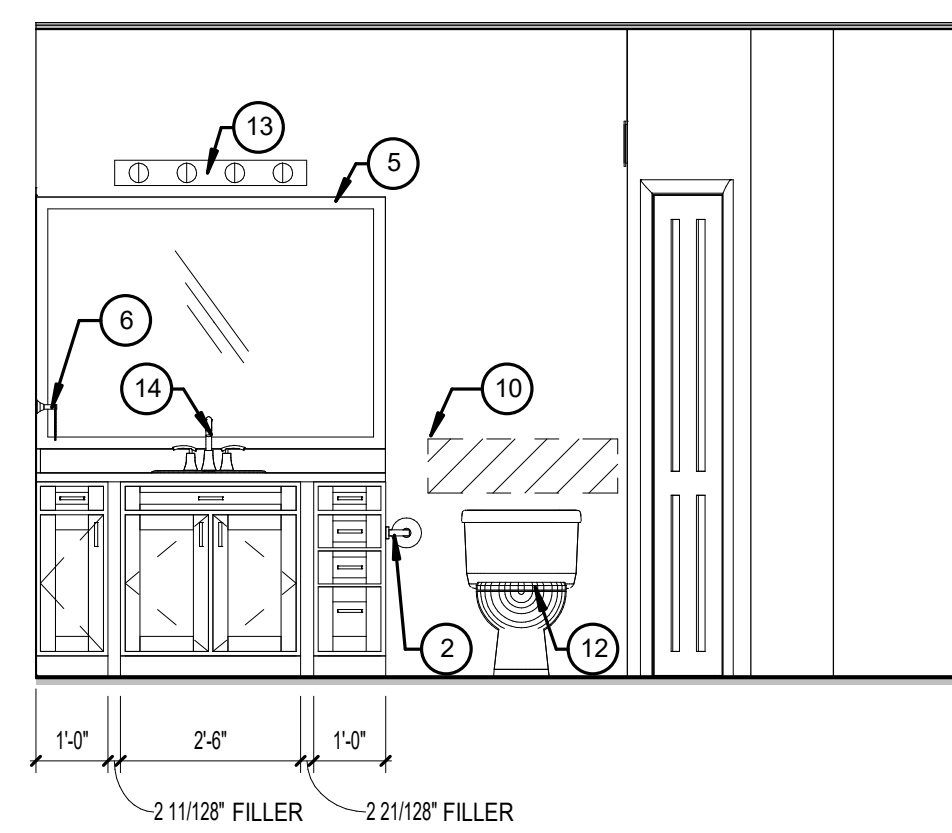
H5 UNIT 3C - ENLARGED ELEVATION
3/8" = 1'-0"



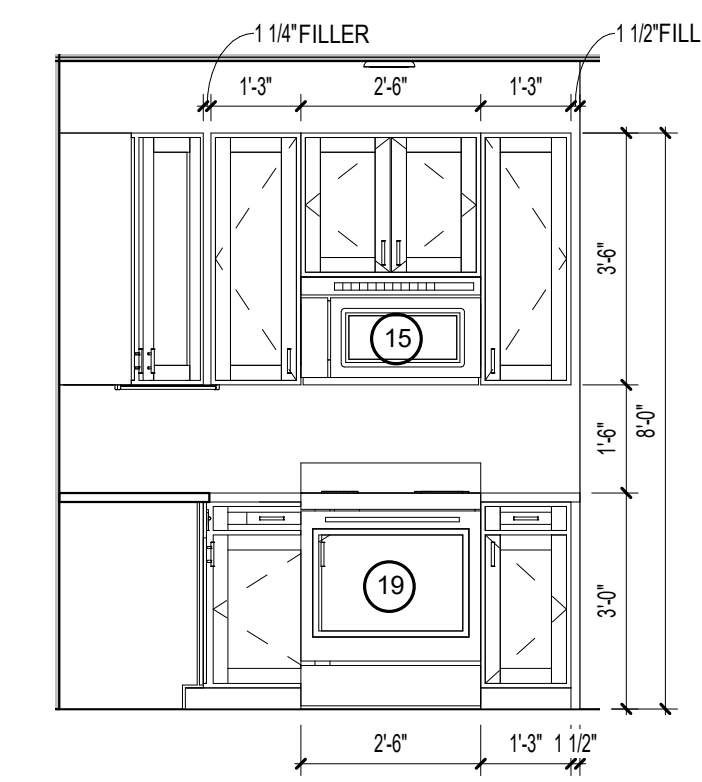
H4 UNIT 3C - ENLARGED ELEVATION
3/8" = 1'-0"



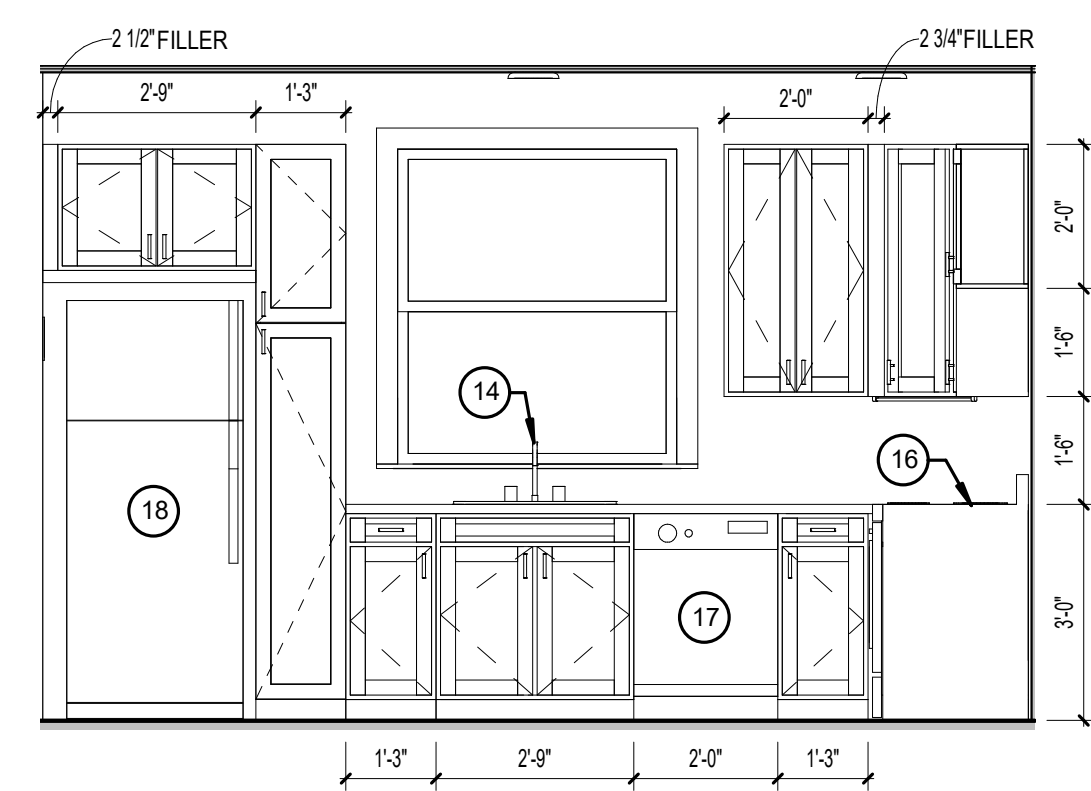
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3/8" = 1'-0"



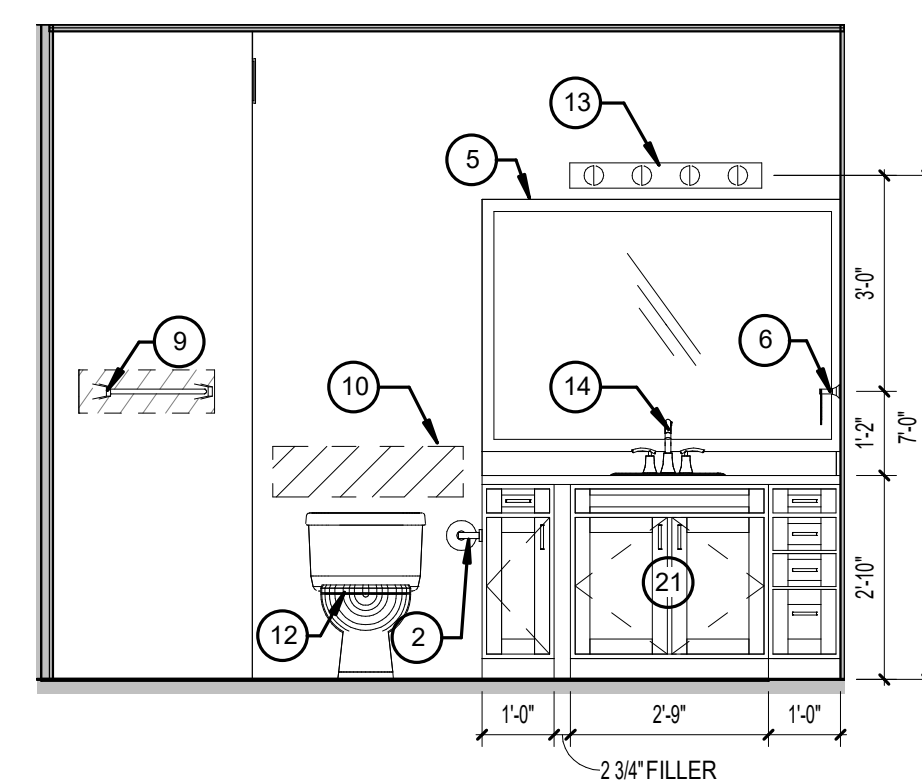
H2 UNIT 3C - ENLARGED ELEVATION
3/8" = 1'-0"



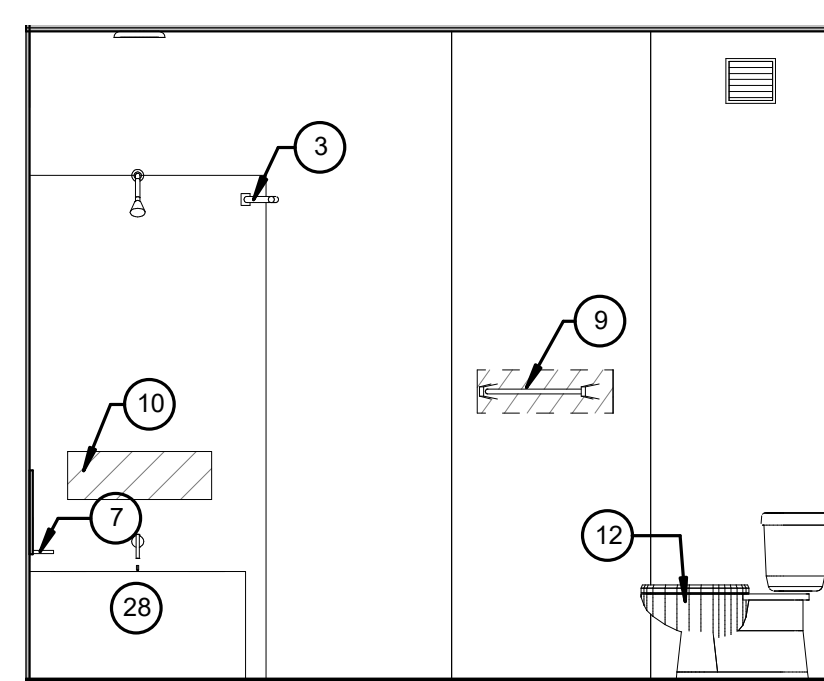
H1 UNIT 3C - ENLARGED ELEVATION
3/8" = 1'-0"



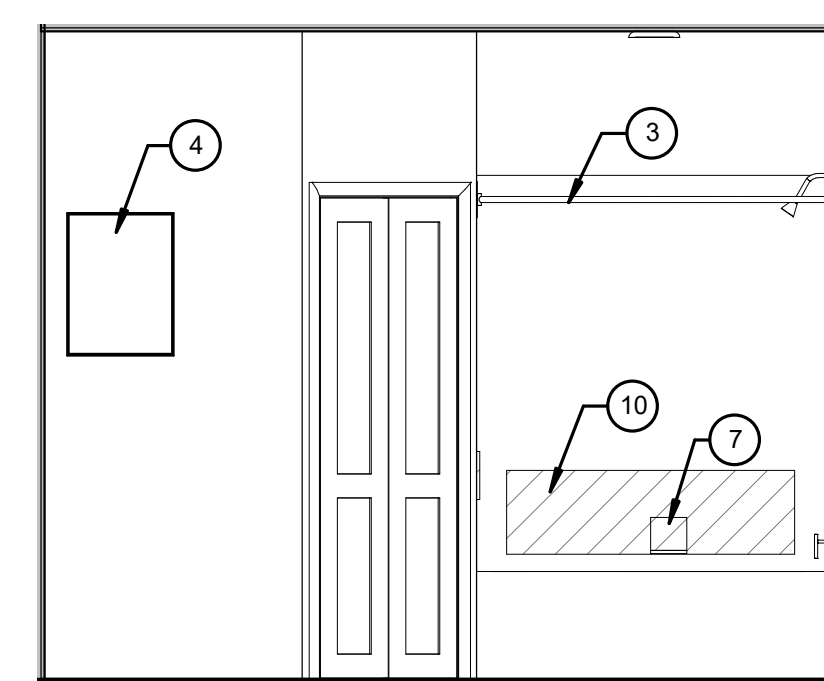
K5 UNIT 3C - ENLARGED ELEVATION
3/8" = 1'-0"



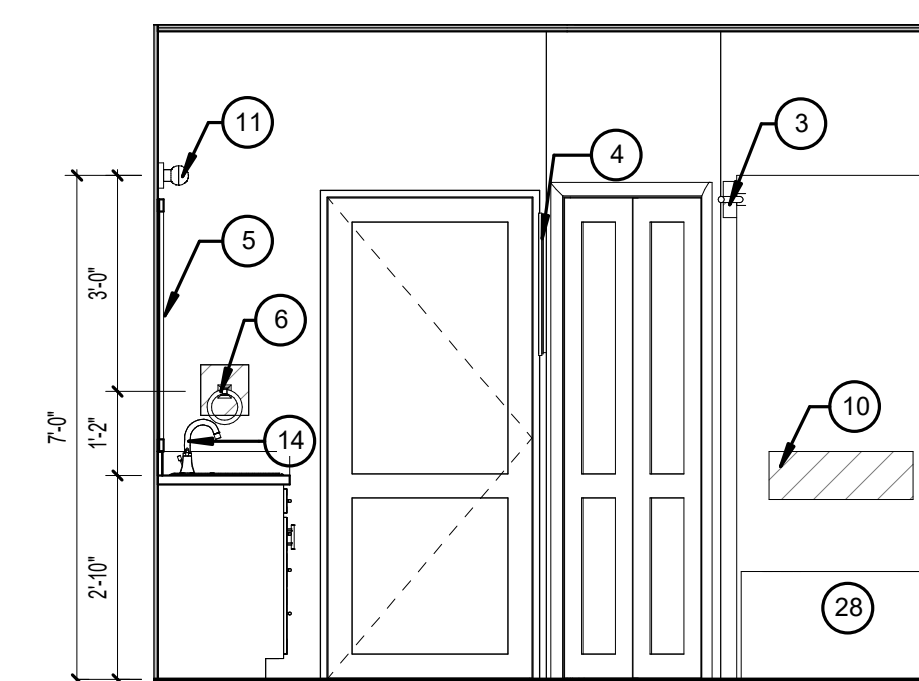
K4 UNIT 3C - ENLARGED ELEVATION
3/8" = 1'-0"



K3 UNIT 3C - ENLARGED ELEVATION
3/8" = 1'-0"



K2 UNIT 3C - ENLARGED ELEVATION
3/8" = 1'-0"



K1 UNIT 3C - ENLARGED ELEVATION
3/8" = 1'-0"

ISSUE HISTORY

No.	Date	Description

REVISION HISTORY

No.	Date	Description

No.	Date	Description

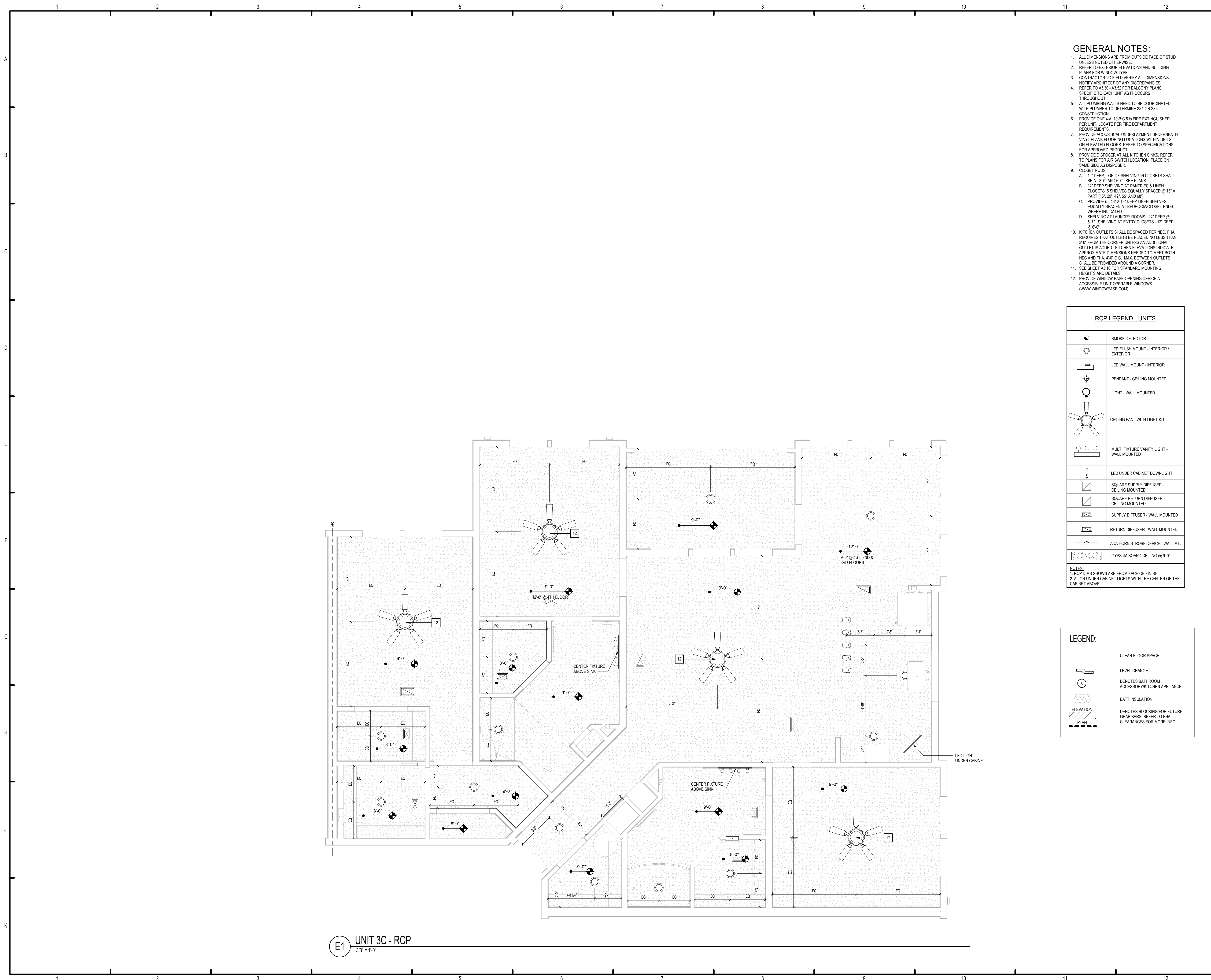
FUGLEBERG KOCH
 2555 Temple Trail, Winter Park, FL 32789 (407) 629-0595
 www.fuglebergkoch.com AA26002103

CONSULTANT
STATE OF ALABAMA
FRANZ L. KOCH
8234
4/15/22
 REGISTERED ARCHITECT

THE ROBERT - MADISON	Drawn: MB
MADISON, ALABAMA	Checked: JK
	Approval: MS
	Date: 04/15/2022
	Project #: 572

UNIT 3C - 3BR UNIT PLAN

A3.07a



- GENERAL NOTES:**
- ALL DIMENSIONS ARE FROM OUTSIDE FACE OF STUD UNLESS NOTED OTHERWISE.
 - REFER TO EXTERIOR ELEVATIONS AND BUILDING PLANS FOR WINDOW TYPE.
 - CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
 - REFER TO A3.30 - A3.32 FOR BALCONY PLANS SPECIFIC TO EACH UNIT AS IT OCCURS THROUGHOUT.
 - ALL PLUMBING WALLS NEED TO BE COORDINATED WITH PLUMBER TO DETERMINE 2X4 OR 2X6 CONSTRUCTION.
 - PROVIDE ONE 4-A, 10-B, C & B FIRE EXTINGUISHER PER UNIT. LOCATE PER FIRE DEPARTMENT REQUIREMENTS.
 - PROVIDE ACOUSTICAL UNDERLAYMENT UNDERNEATH VINYL PLANK FLOORING LOCATIONS WITHIN UNITS ON ELEVATED FLOORS. REFER TO SPECIFICATIONS FOR APPROVED PRODUCT.
 - PROVIDE DISPOSER AT ALL KITCHEN SINKS. REFER TO PLANS FOR AIR SWITCH LOCATION. PLACE ON SAME SIDE AS DISPOSER.
 - CLOSET RODS:
 - 12" DEEP, TOP OF SHELVING IN CLOSETS SHALL BE AT 3'-0" AND 5'-0". SEE PLANS.
 - 12" DEEP SHELVING AT PANTRIES & LINEN CLOSETS: 5 SHELVES EQUALLY SPACED @ 13" A PART (12", 22", 32", 35" AND 65").
 - PROVIDE (6) 18" X 12" DEEP LINEN SHELVES EQUALLY SPACED AT BEDROOM/CLOSET ENDS WHERE INDICATED.
 - SHELVING AT LAUNDRY ROOMS - 24" DEEP @ 5'-7". SHELVING AT ENTRY CLOSETS - 12" DEEP @ 5'-0".
 - KITCHEN OUTLETS SHALL BE SPACED PER NEC. FHA REQUIRES THAT OUTLETS BE PLACED NO LESS THAN 2'-0" FROM THE CORNER UNLESS AN ADDITIONAL OUTLET IS ADDED. KITCHEN ELEVATIONS INDICATE APPROXIMATE DIMENSIONS NEEDED TO MEET BOTH NEC AND FHA. 4'-0" O.C. MAX. BETWEEN OUTLETS SHALL BE PROVIDED AROUND A CORNER.
 - SEE SHEET A3.10 FOR STANDARD MOUNTING HEIGHTS AND DETAILS.
 - PROVIDE WINDOW/EASE OPENING DEVICE AT ACCESSIBLE UNIT OPERABLE WINDOWS (WWW.WINDOWEASE.COM).

RCP LEGEND - UNITS	
	SMOKE DETECTOR
	LED FLUSH MOUNT - INTERIOR / EXTERIOR
	LED WALL MOUNT - INTERIOR
	PENDANT - CEILING MOUNTED
	LIGHT - WALL MOUNTED
	CEILING FAN - WITH LIGHT KIT
	MULTI FIXTURE VANITY LIGHT - WALL MOUNTED
	LED UNDER CABINET DOWNLIGHT
	SQUARE SUPPLY DIFFUSER - CEILING MOUNTED
	SQUARE RETURN DIFFUSER - CEILING MOUNTED
	SUPPLY DIFFUSER - WALL MOUNTED
	RETURN DIFFUSER - WALL MOUNTED
	ADA HORN/STROBE DEVICE - WALL MT.
	GYPSUM BOARD CEILING @ 9'-0"

NOTES:
 1. RCP DIMS SHOWN ARE FROM FACE OF FINISH.
 2. ALIGN UNDER CABINET LIGHTS WITH THE CENTER OF THE CABINET ABOVE.

LEGEND:

	CLEAR FLOOR SPACE
	LEVEL CHANGE
	DENOTES BATHROOM ACCESSORY/KITCHEN APPLIANCE
	BATT INSULATION
	DENOTES BLOCKING FOR FUTURE GRAB BARS. REFER TO FHA CLEARANCES FOR MORE INFO.
	PLAN

ISSUE HISTORY

No.	Date	Description

REVISION HISTORY

No.	Date	Description

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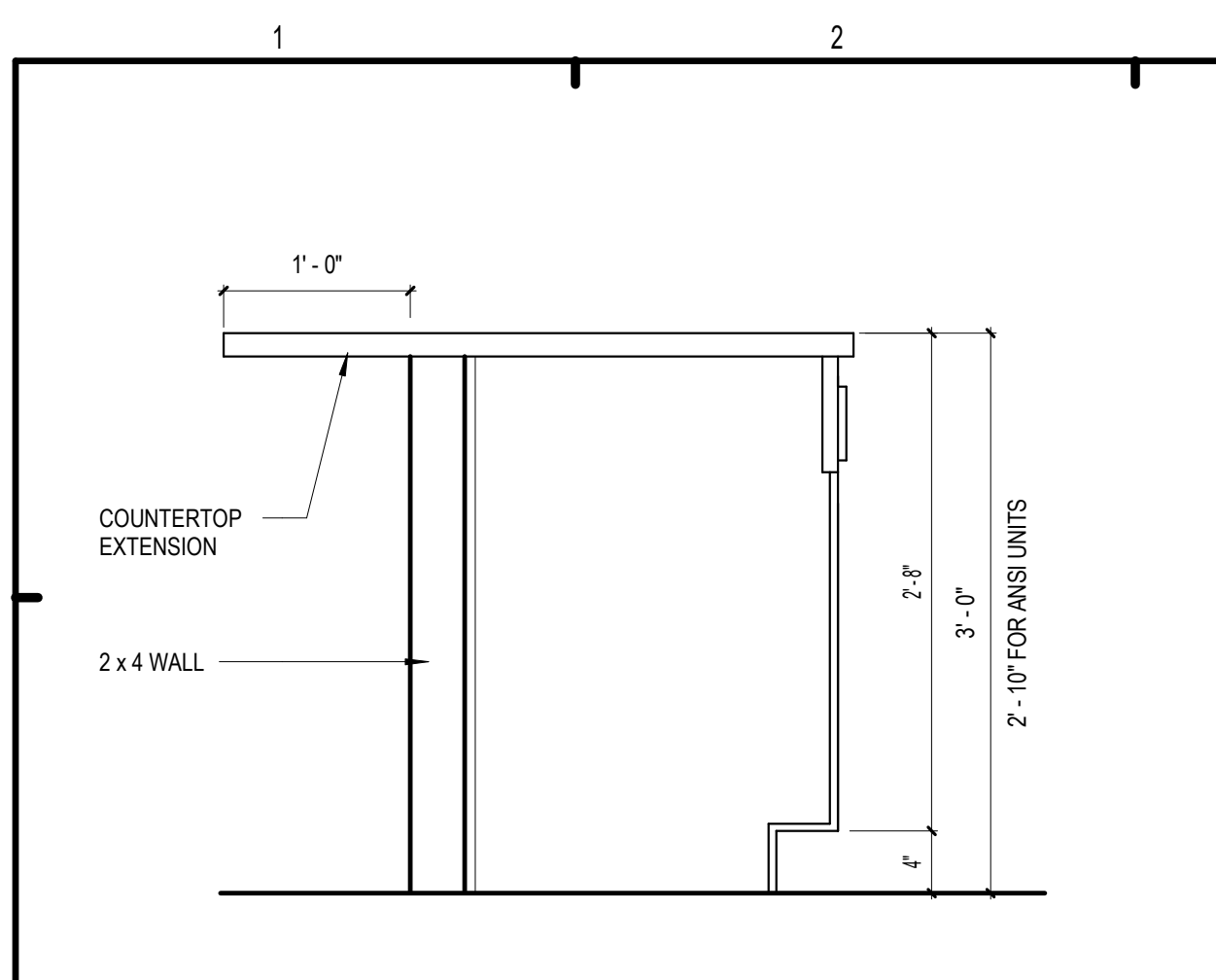


THE ROBERT - MADISON	Drawn: MB
MADISON, ALABAMA	Checked: JK
	Approval: MS
	Date: 04/15/2022
	Project #: 572

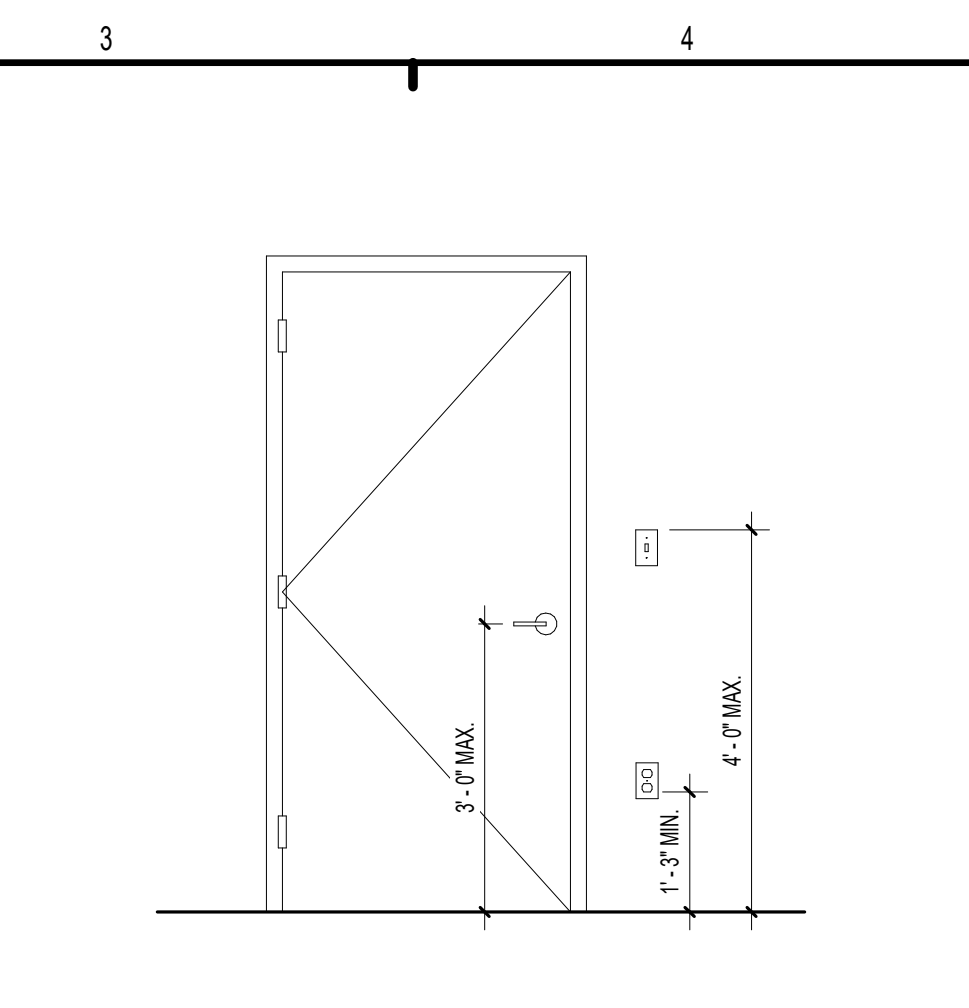
UNIT 3C - RCP

A3.08

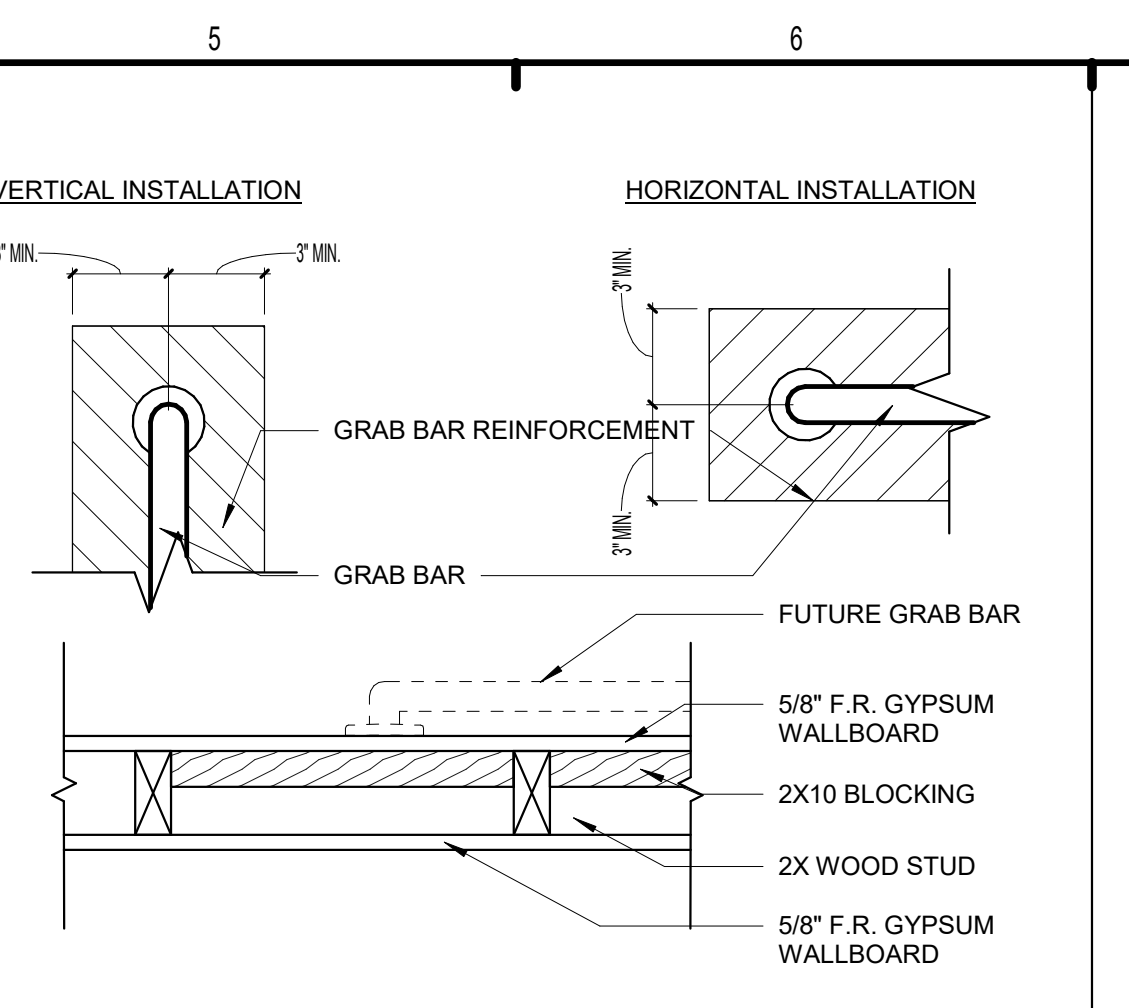
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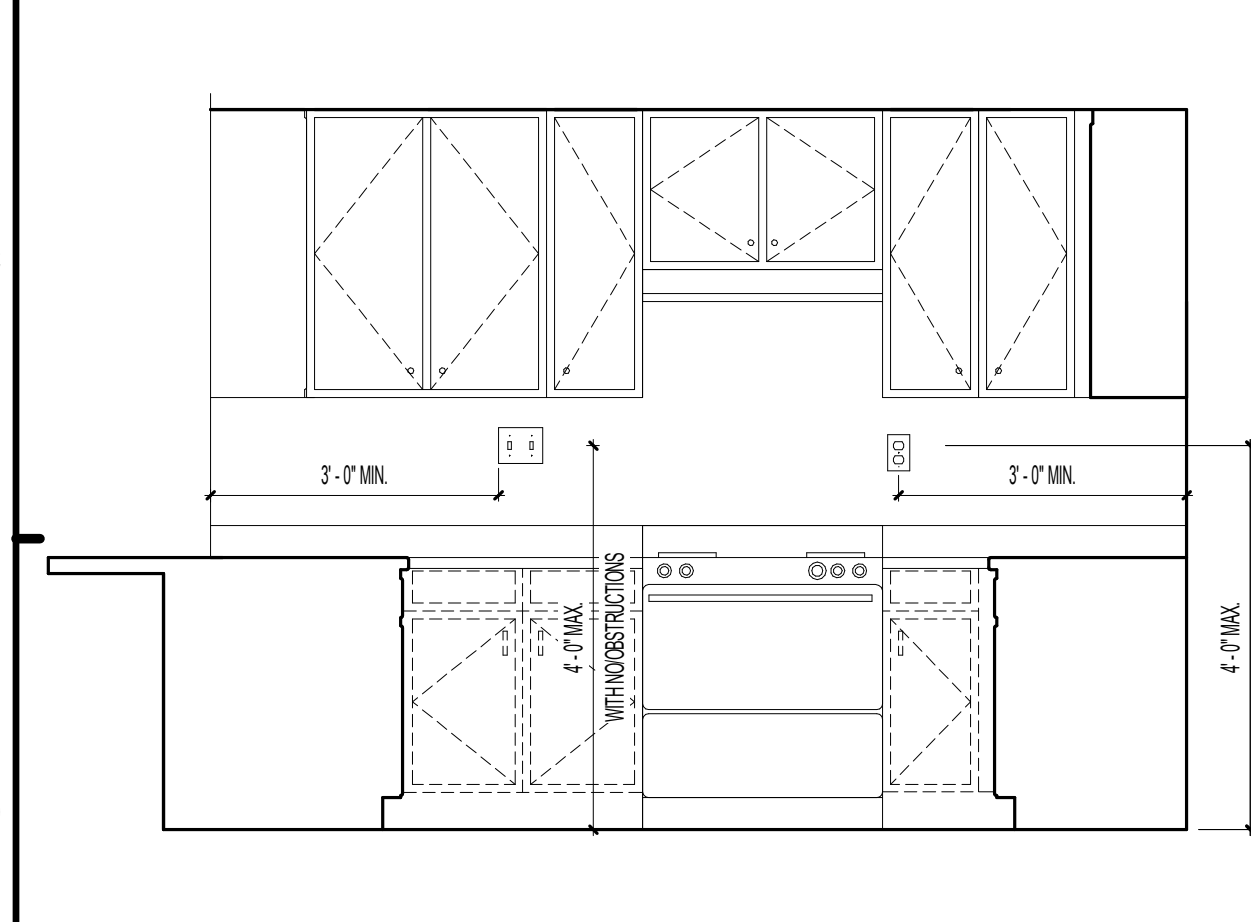
B1 COUNTERTOP DETAIL AT KITCHEN
1" = 1'-0"



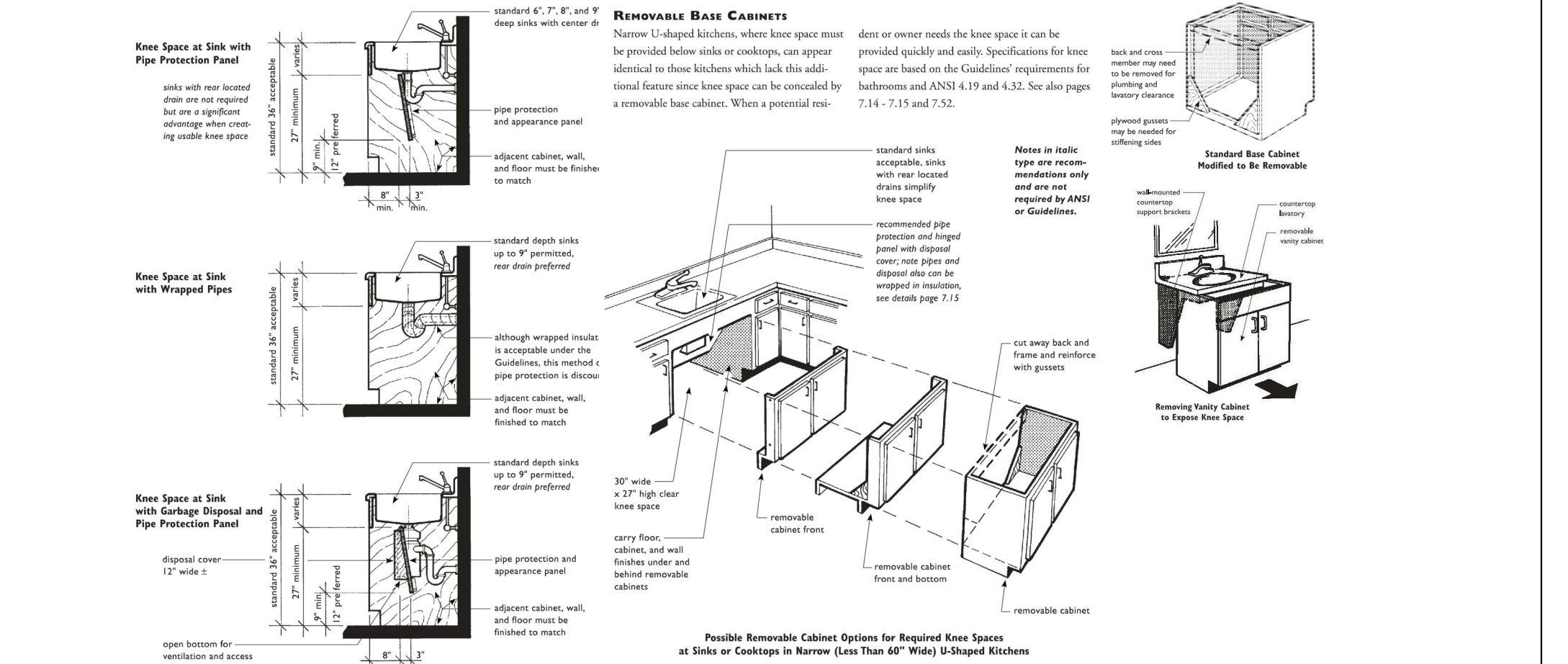
B3 TYP. FHA MOUNTING HT. REQ
1/2" = 1'-0"



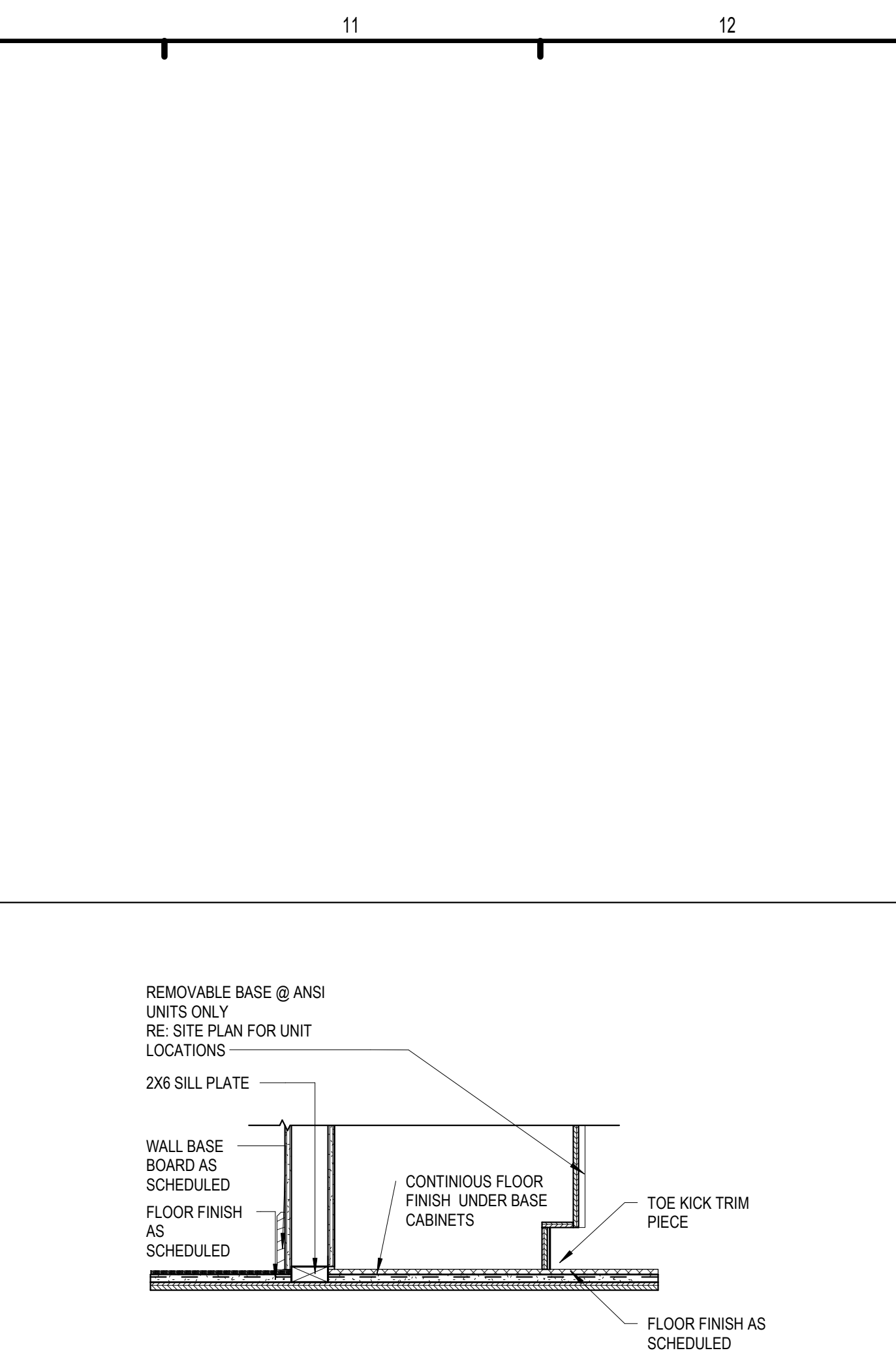
B5 BLOCKING FOR FUTURE GRAB BARS
1 1/2" = 1'-0"



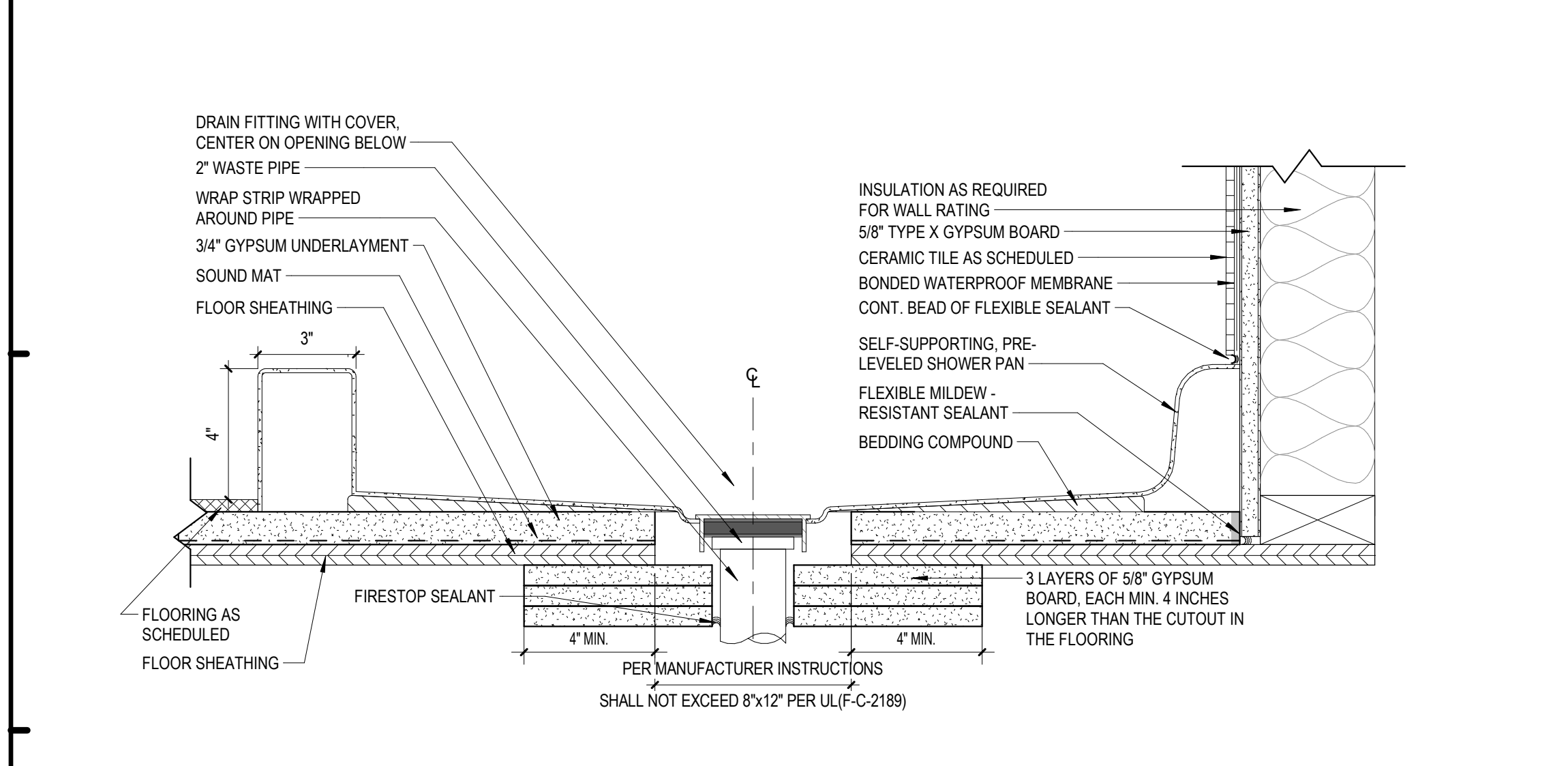
D1 TYP. FHA KITCHEN MOUNTING HT. REQ.
1/2" = 1'-0"



D3 REMOVABLE CABINET DETAIL Copy 1
3/8" = 1'-0"



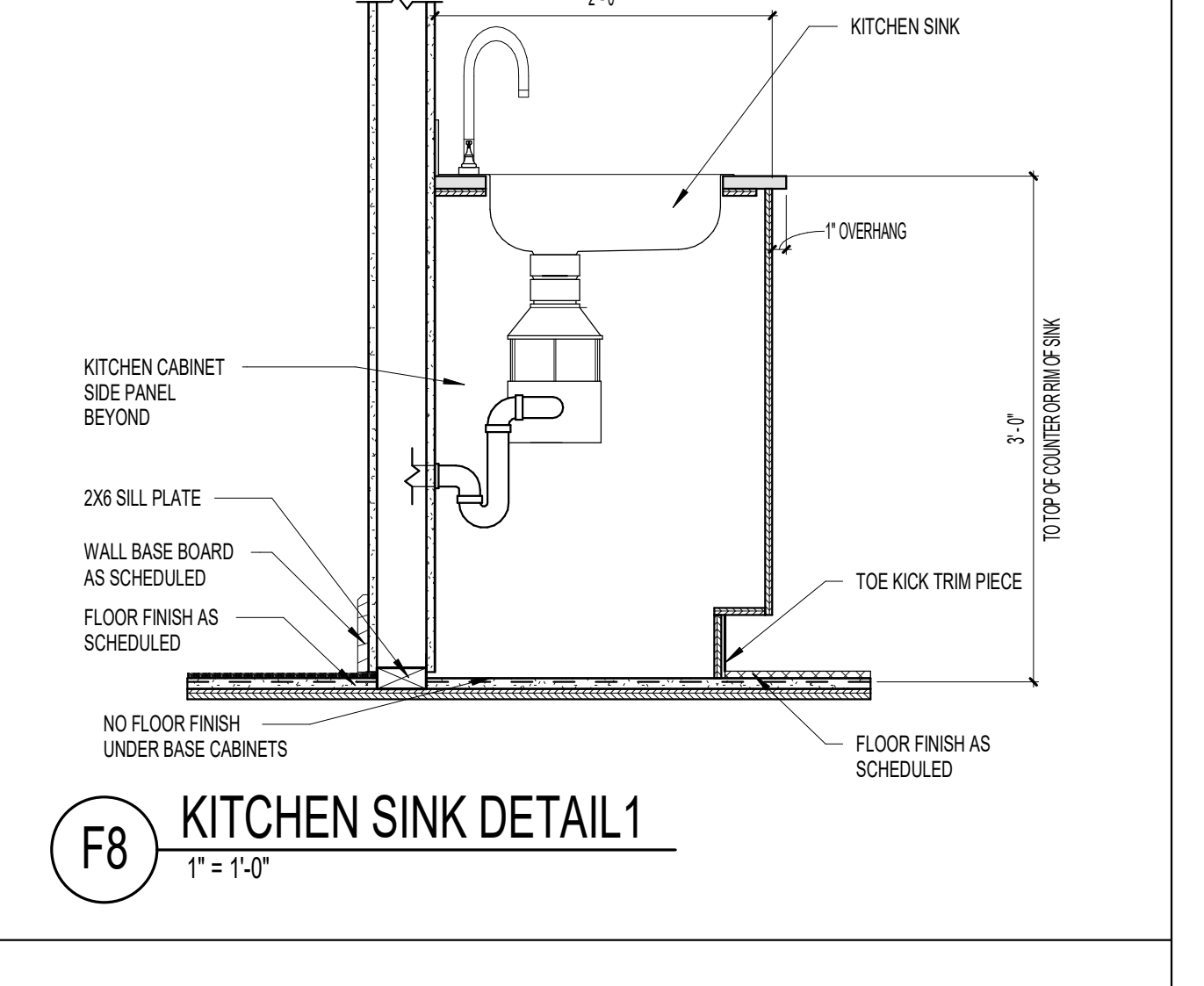
D11 REMOVABLE BASE CABINET DETAIL
1" = 1'-0"



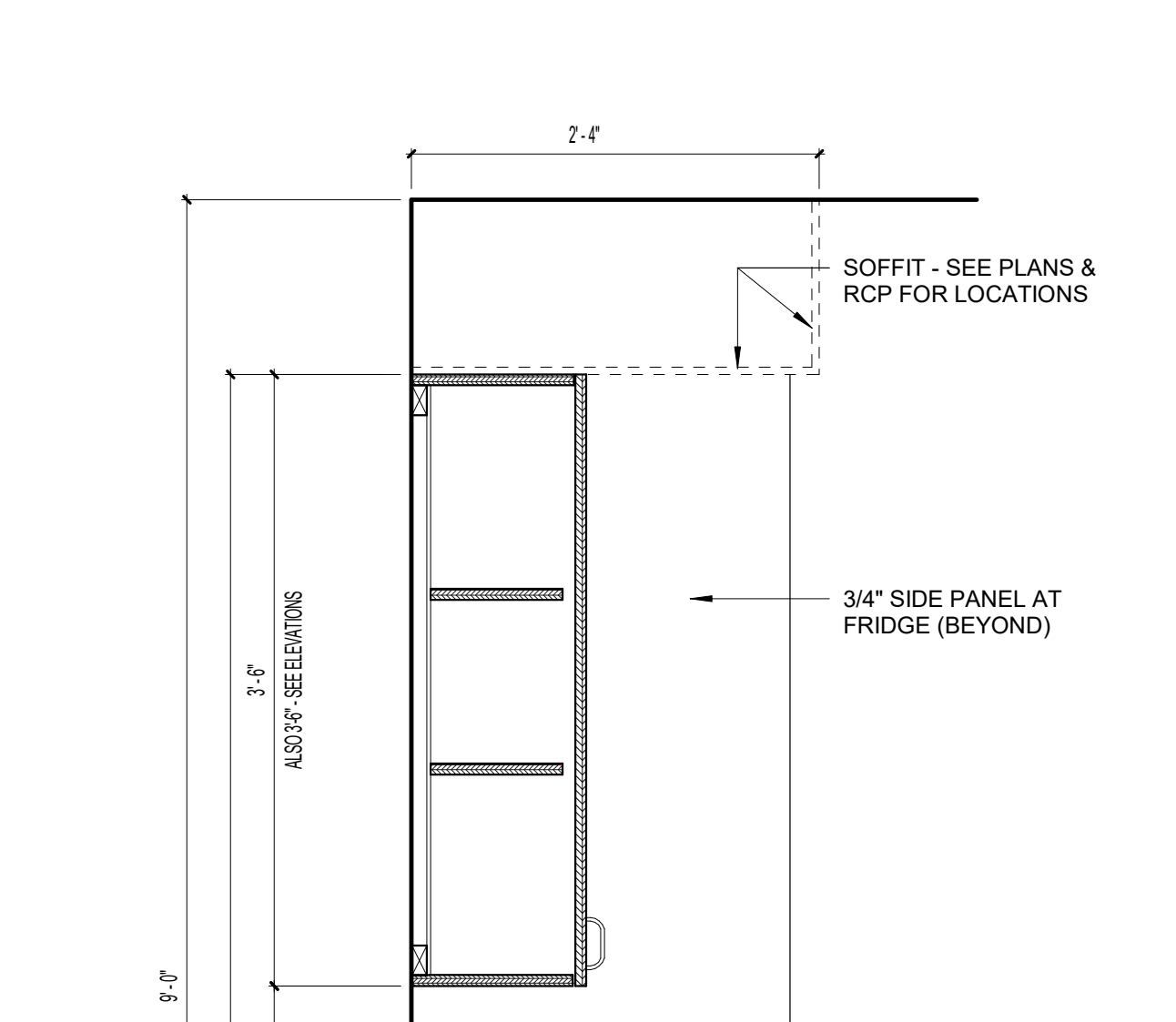
F1 SHOWER FRAMING DETAIL
3" = 1'-0"



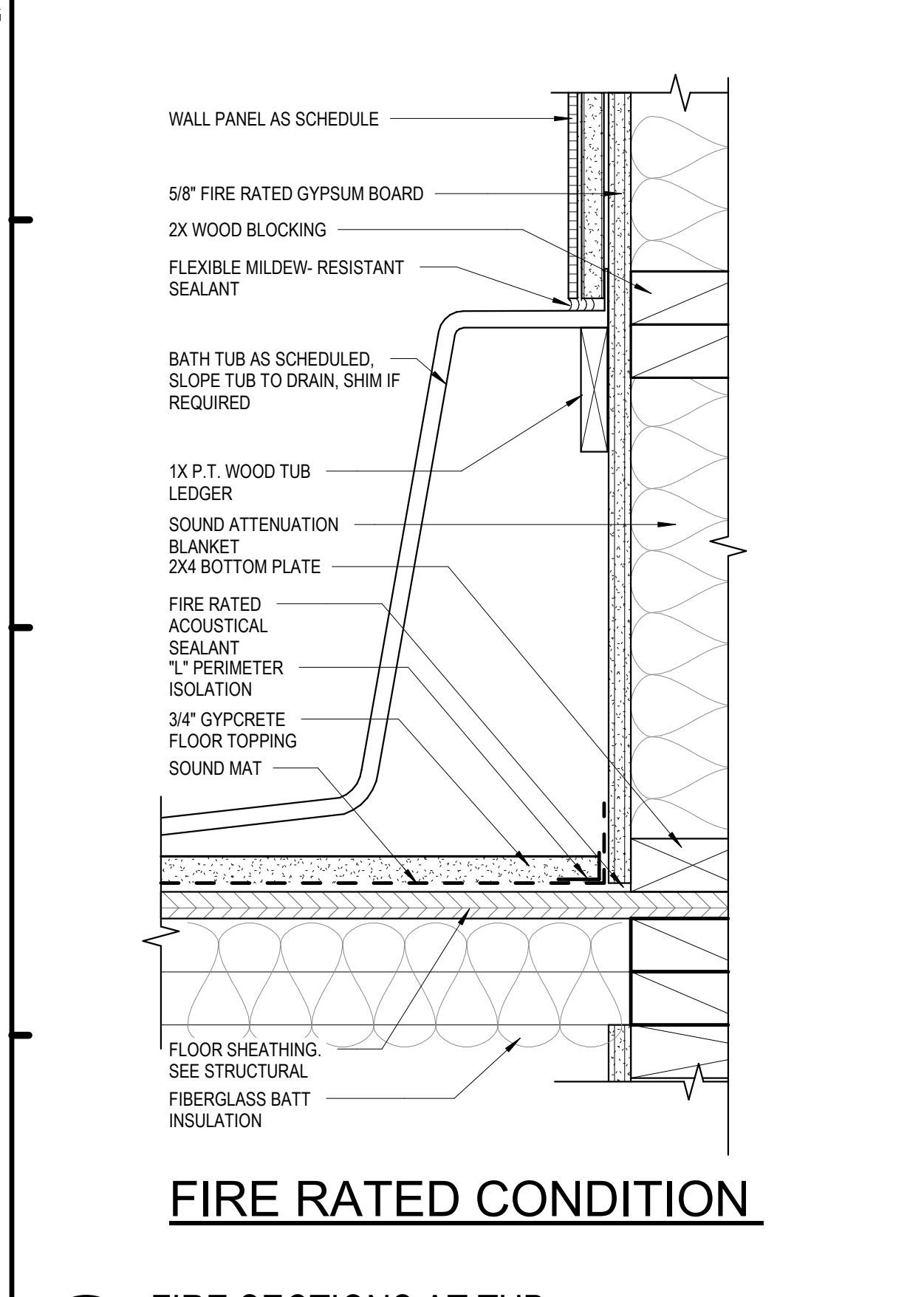
F8 KITCHEN SINK DETAIL 1
1" = 1'-0"



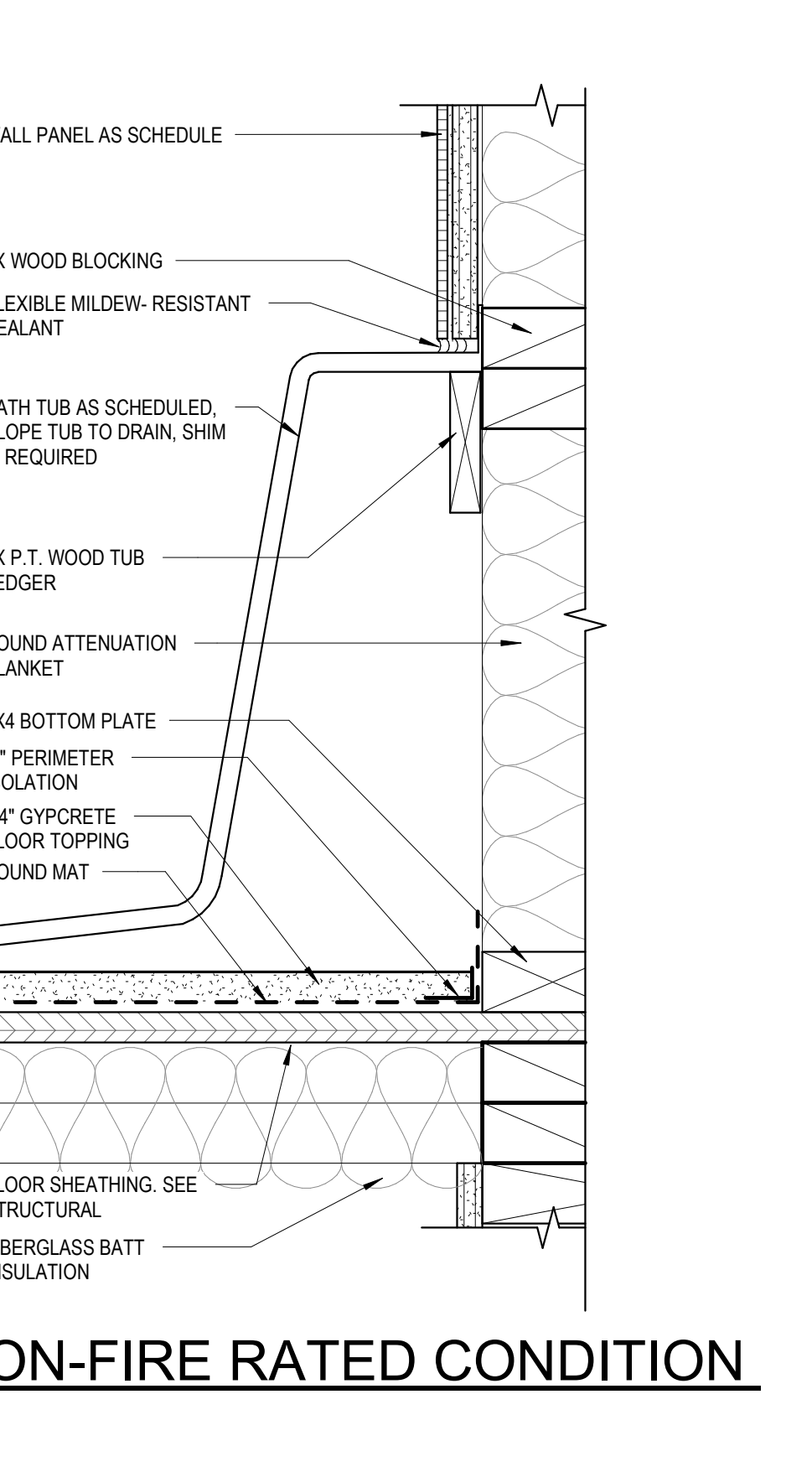
D8 REMOVABLE KITCHEN BASE CABINET DETAIL
1" = 1'-0"



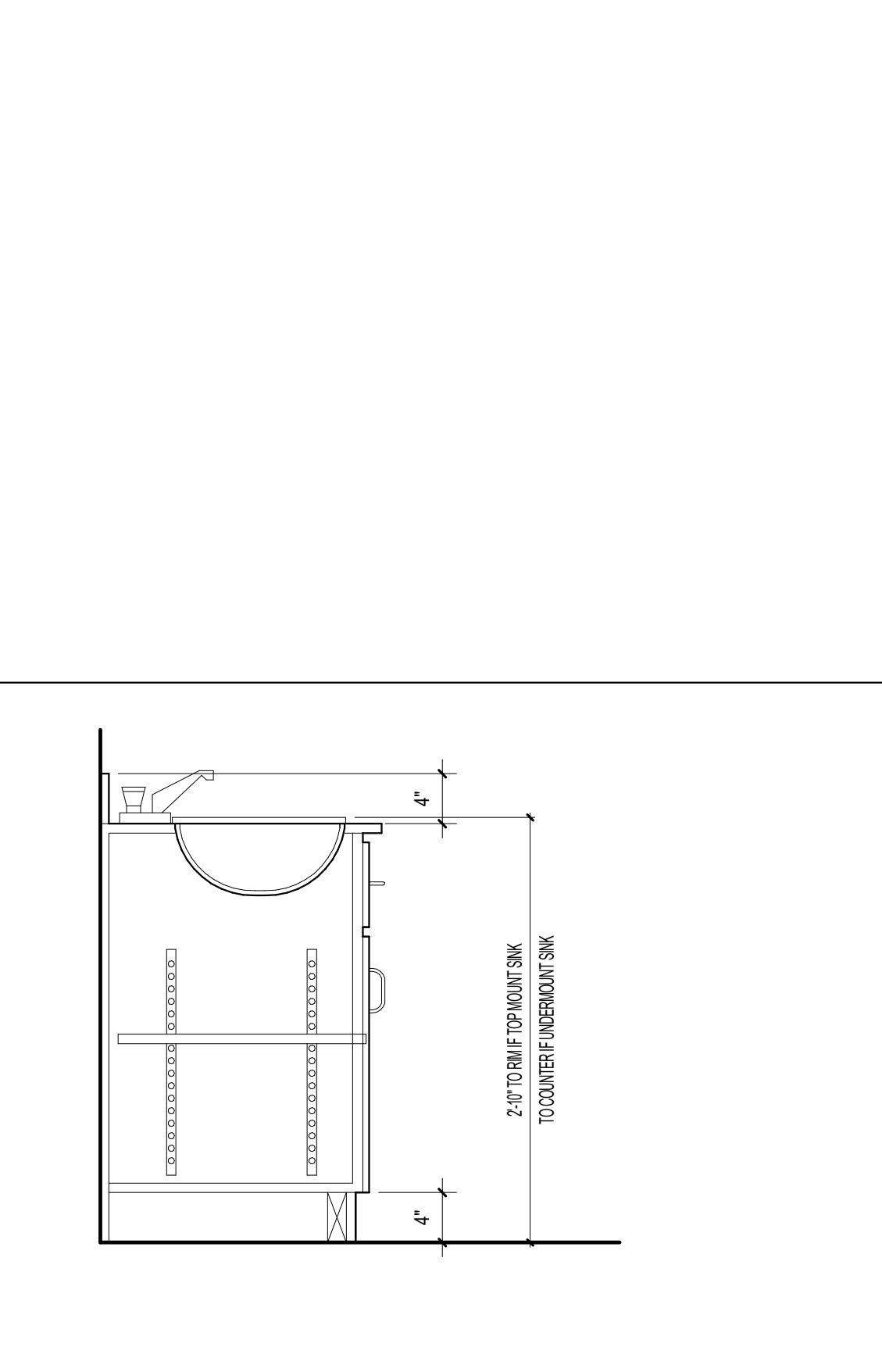
H11 KITCHEN CABINET SECTION
1" = 1'-0"



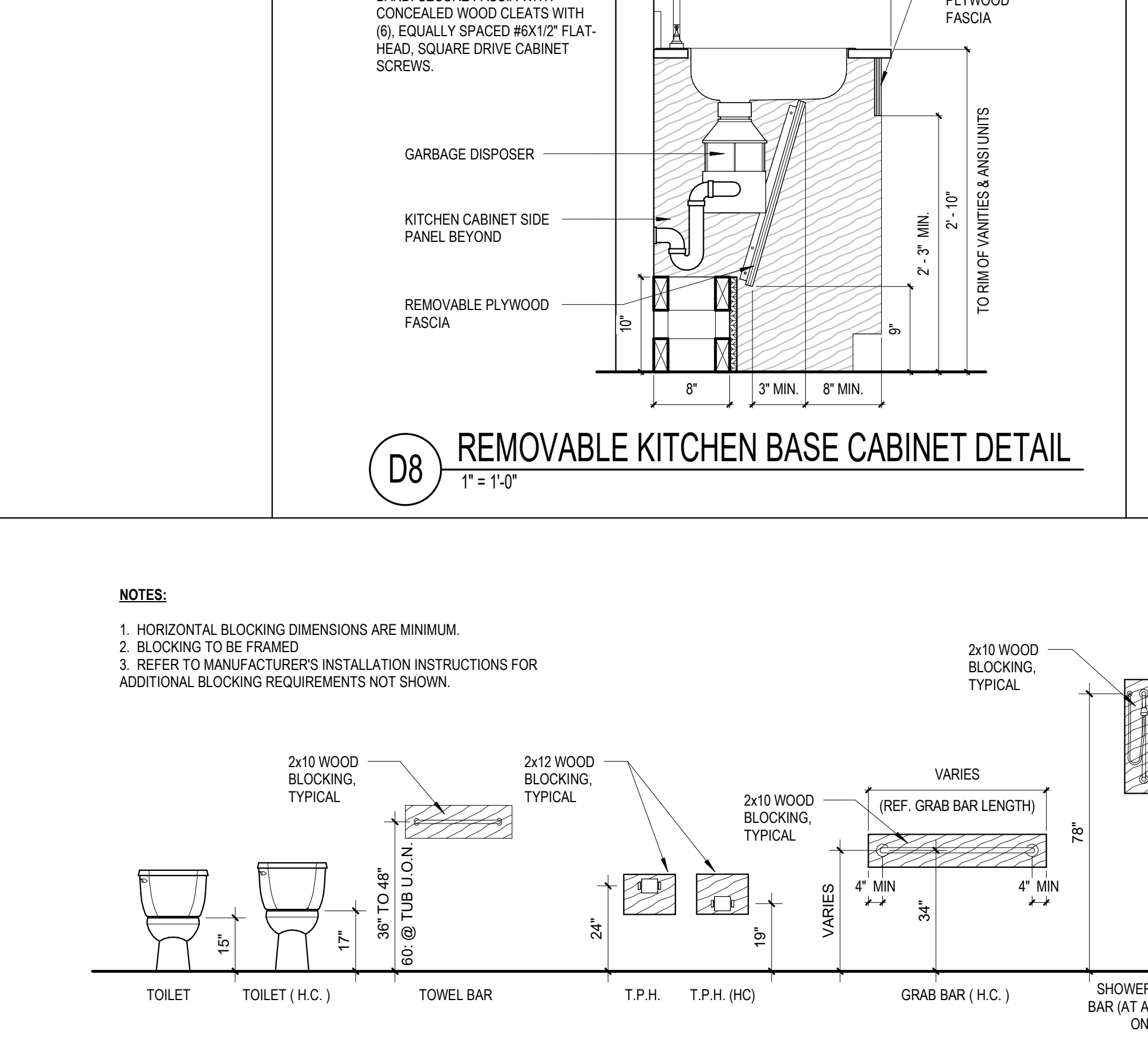
K1 FIRE SECTIONS AT TUB
3" = 1'-0"



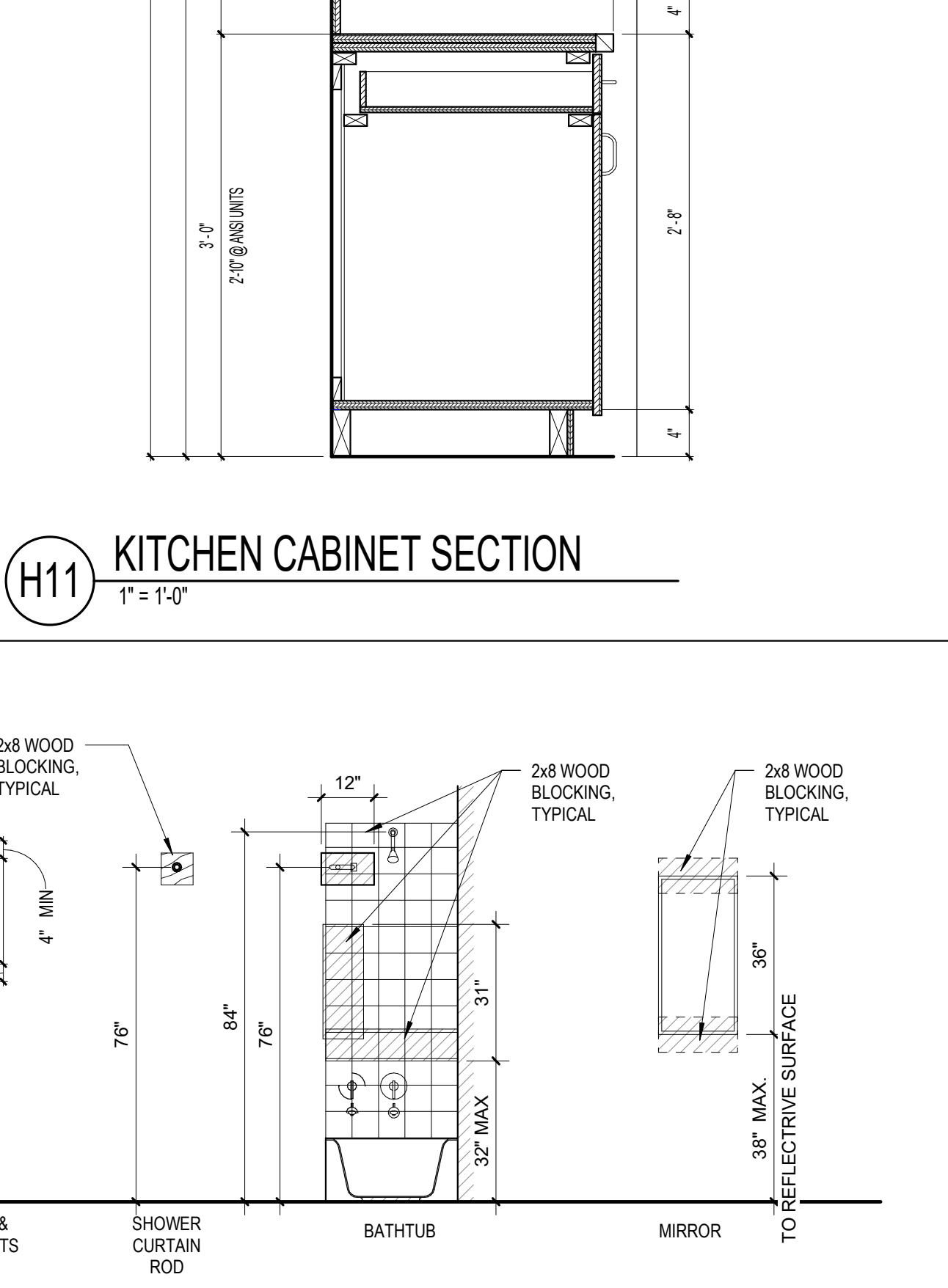
K1 NON-FIRE RATED CONDITION



K5 BASE CABINET DETAIL AT BATH
1" = 1'-0"



K7 BATH FIXTURE CLEAR HEIGHTS
3/8" = 1'-0"



K11 KITCHEN CABINET SECTION
1" = 1'-0"

ISSUE HISTORY

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1	04/15/2022	PERMIT SUBMITTAL

REVISION HISTORY

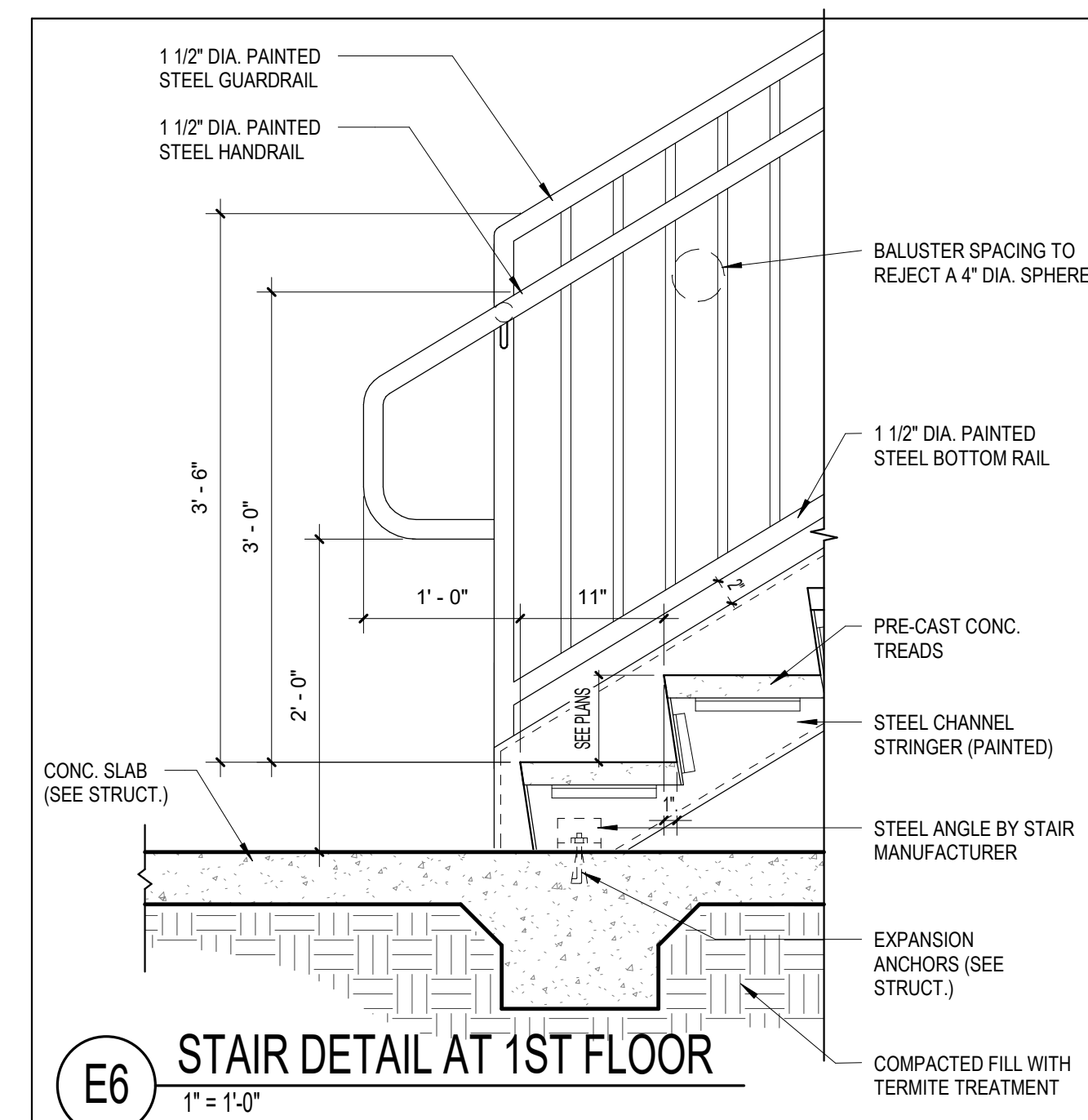
No.	Date	Description

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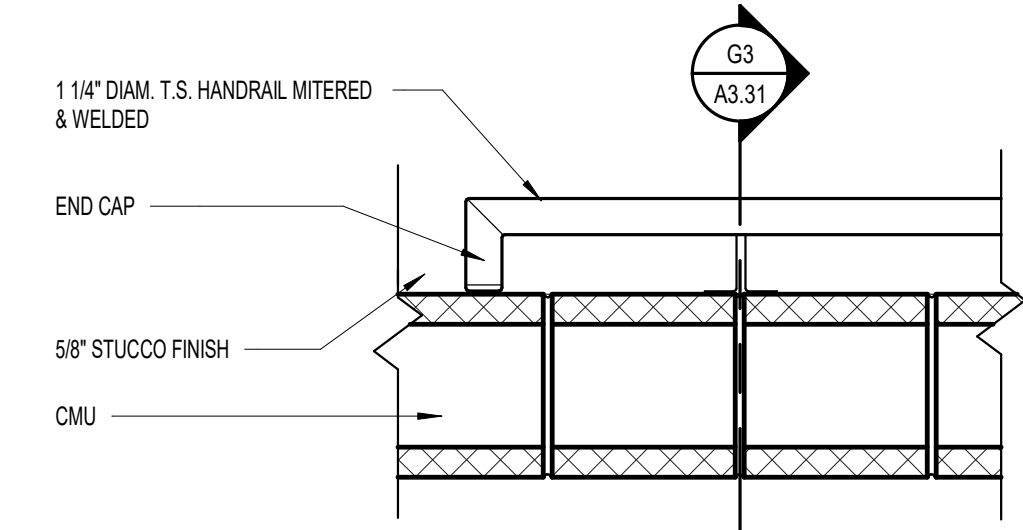
CONSULTANT
STATE OF ALABAMA
MICHAEL DOVE
8284
REGISTERED ARCHITECT
4/15/22

THE ROBERT MADISON
MADISON, ALABAMA

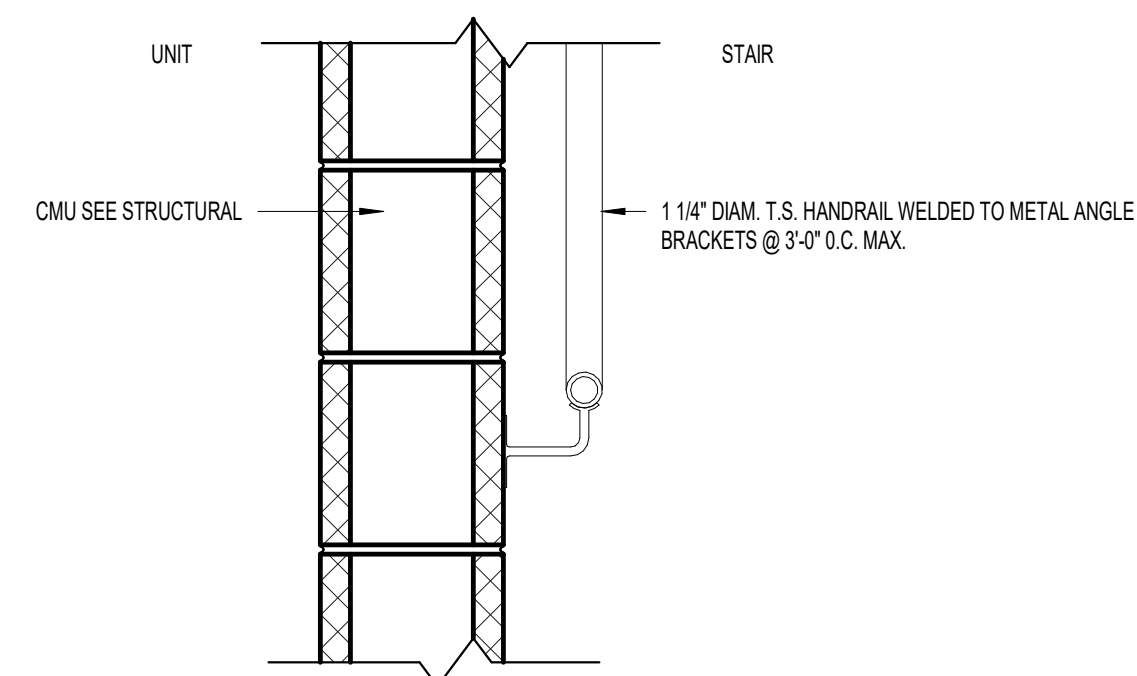
KITCHEN, BATH AND LAUNDRY REQUIREMENTS



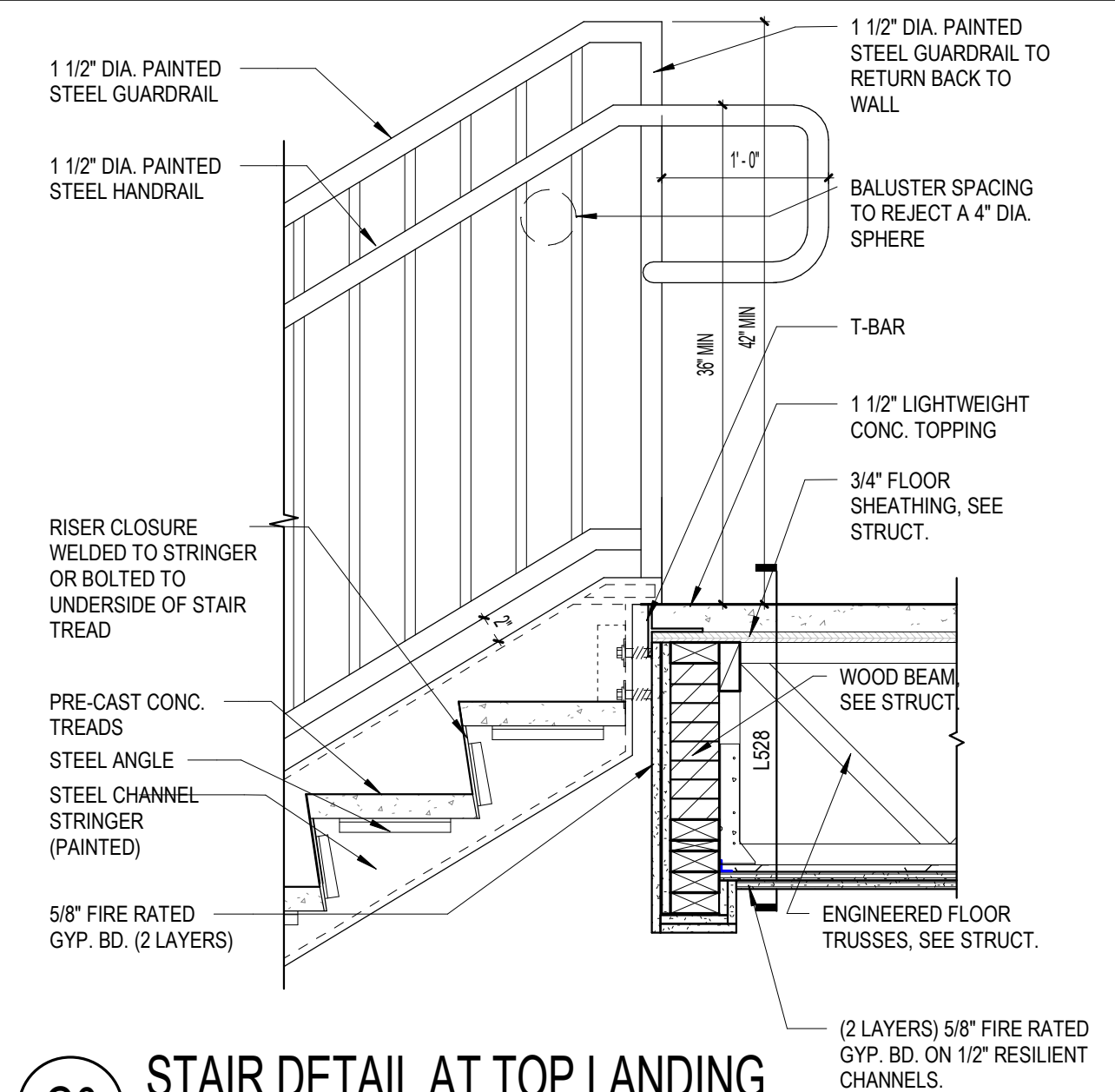
E6 STAIR DETAIL AT 1ST FLOOR
1" = 1'-0"



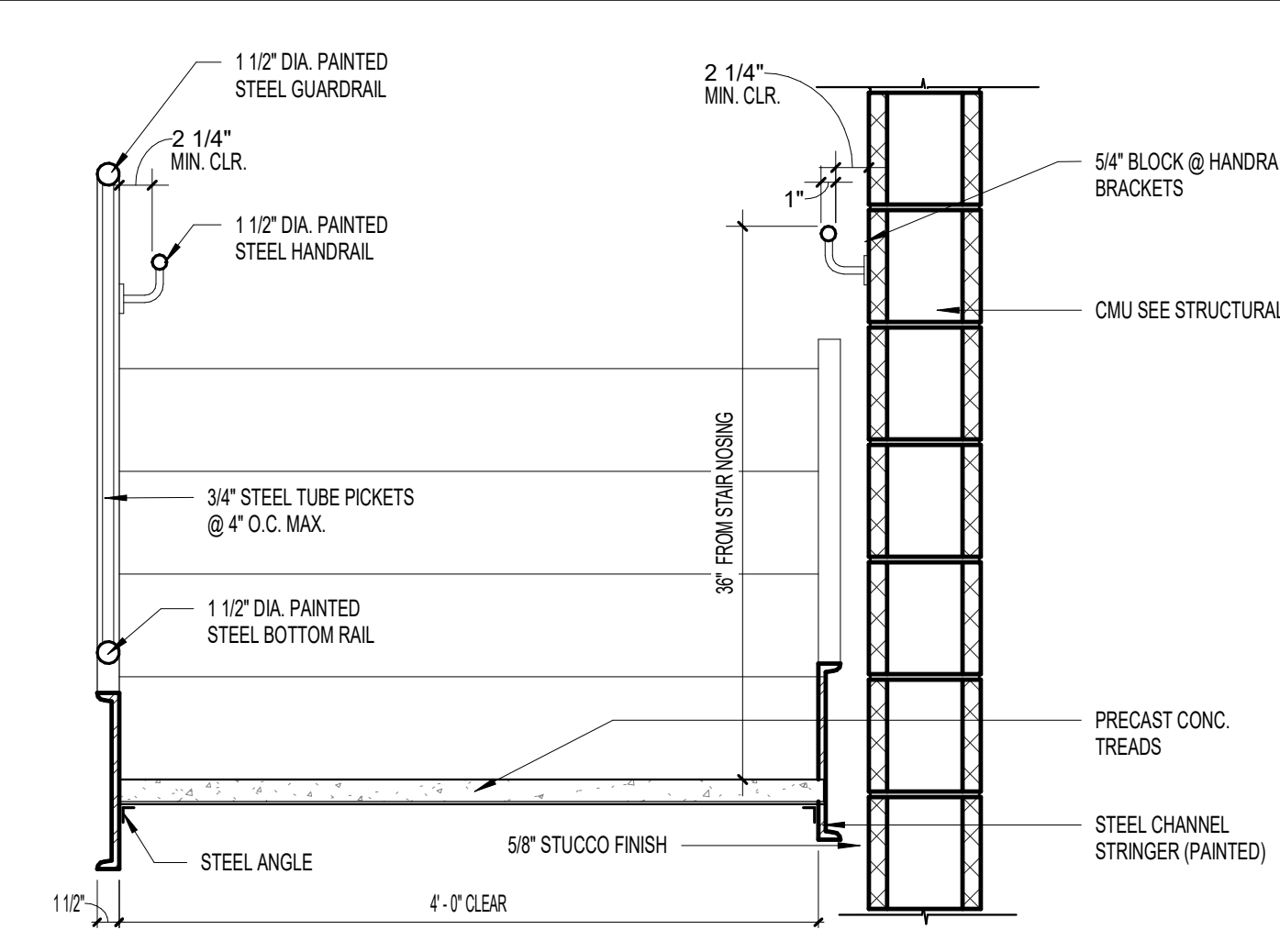
G1 PLAN DETAIL AT HANDRAIL
1 1/2" = 1'-0"



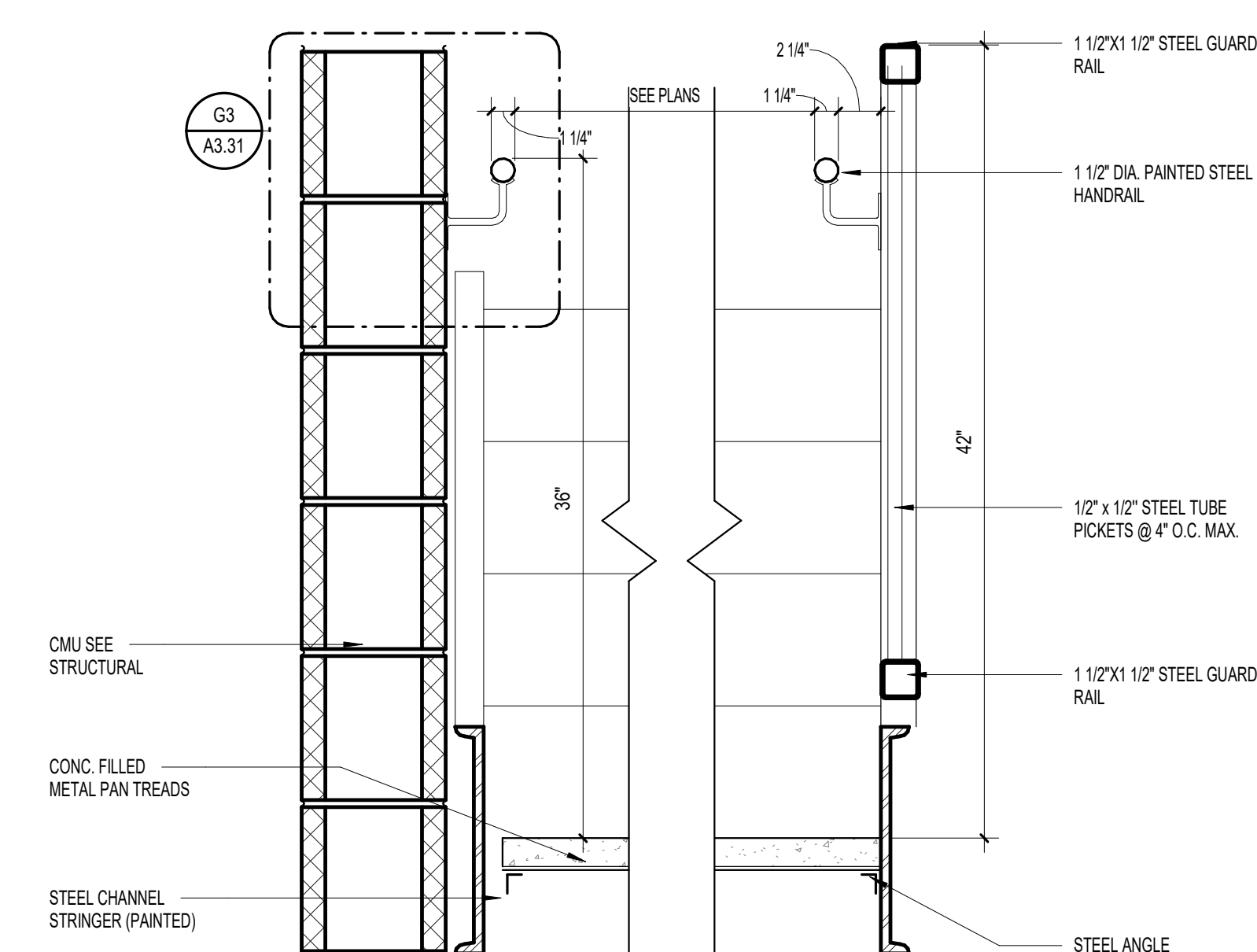
G3 SECTION AT HANDRAIL
1 1/2" = 1'-0"



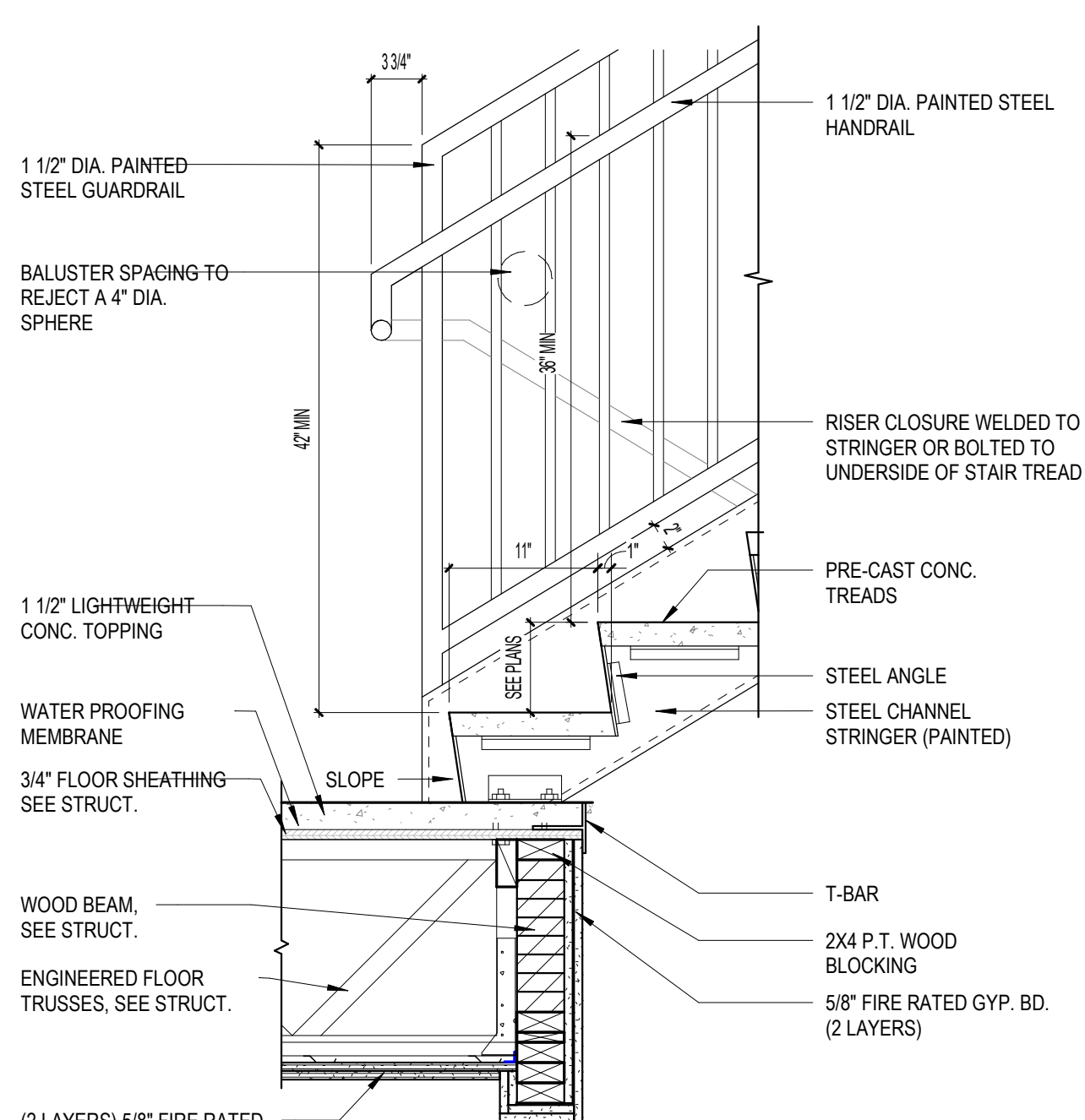
G6 STAIR DETAIL AT TOP LANDING
1" = 1'-0"



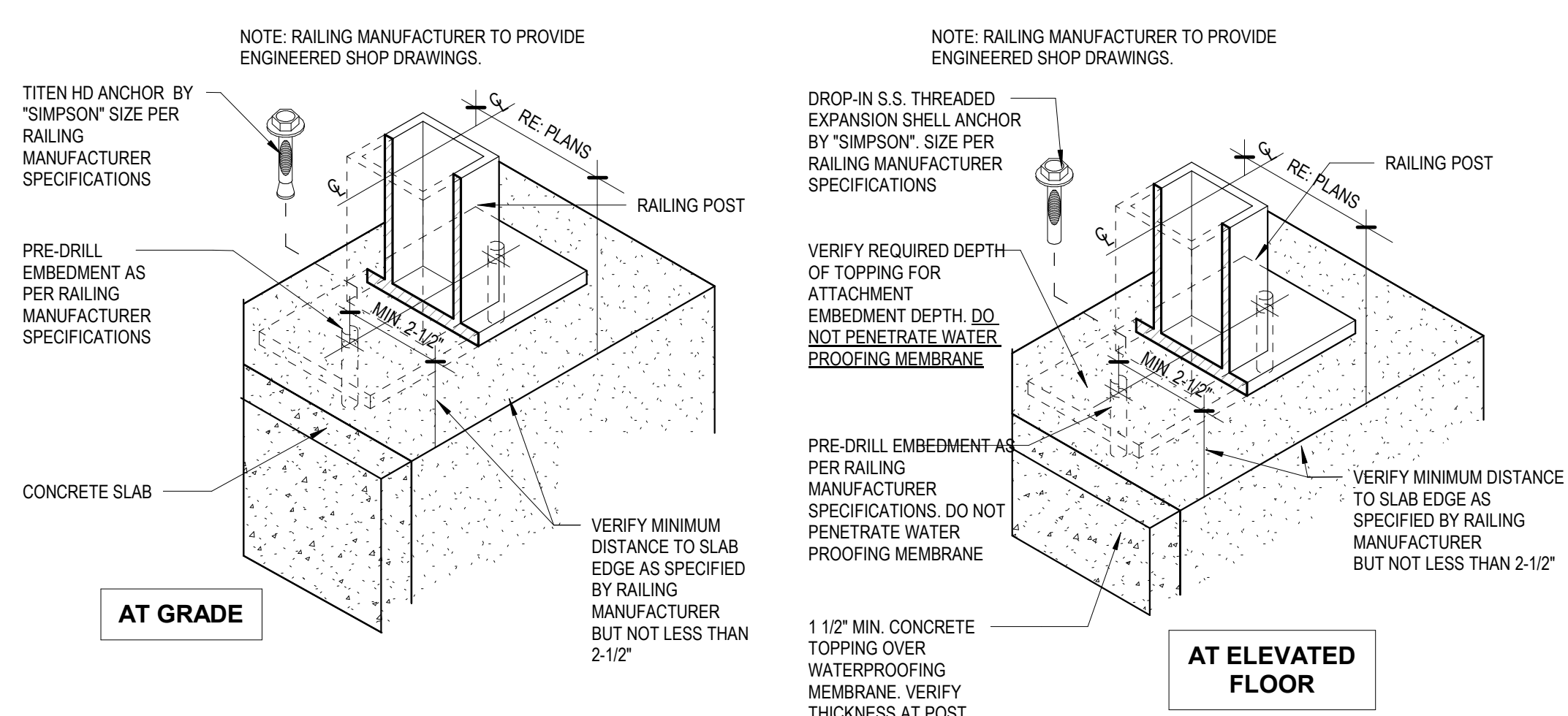
G9 STAIR CROSS SECTION
1" = 1'-0"



K3 STAIR SECTION @ BLDG A
1 1/2" = 1'-0"



K6 STAIR DETAIL AT SECOND LANDING
1" = 1'-0"



K9 RAILING DETAILS
3" = 1'-0"

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No.	Date	Description

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CONSULTANT
STATE OF ALABAMA
8234
REGISTERED ARCHITECT
MICHAEL GOVE
SEA

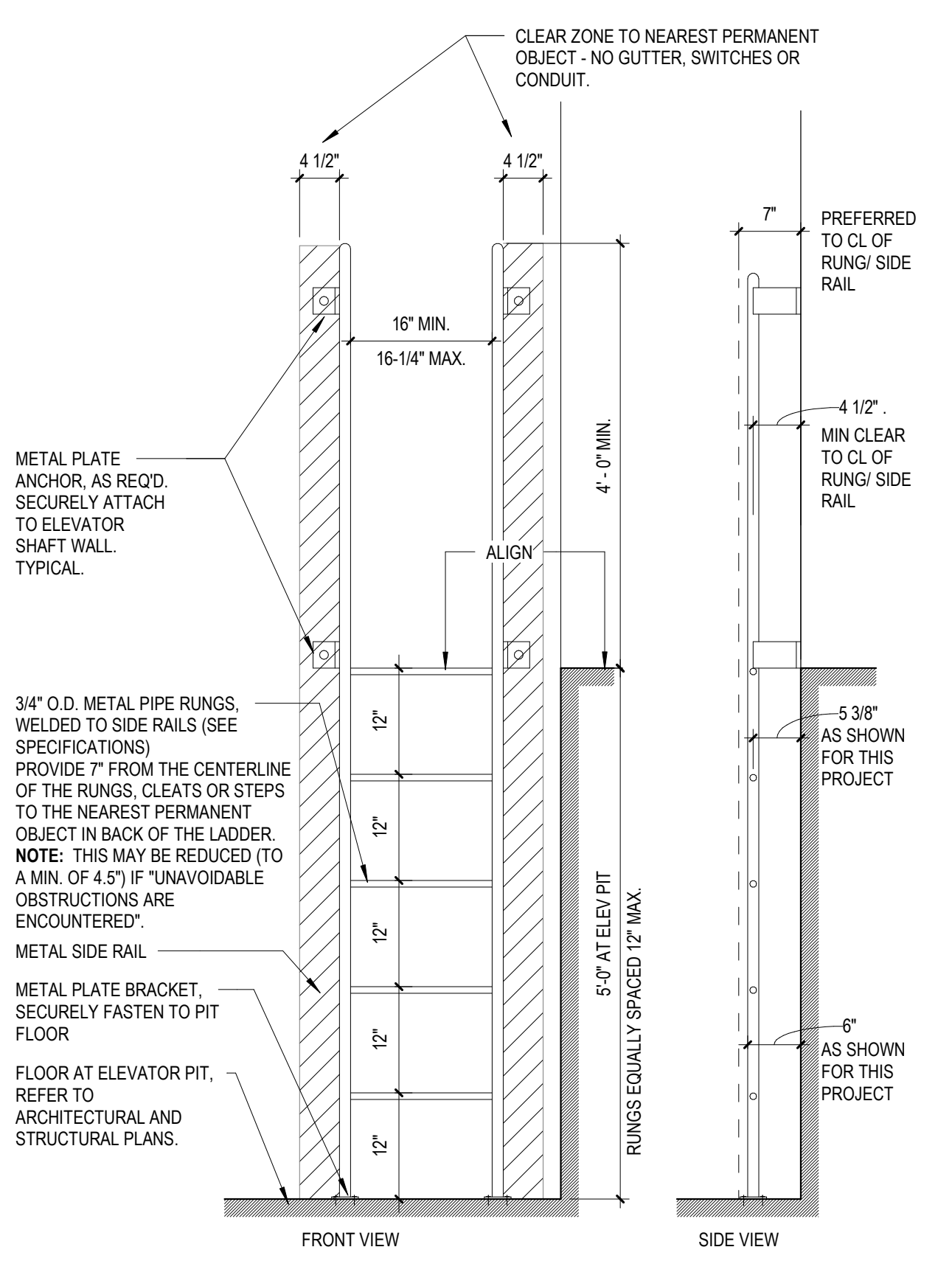
THE ROBERT MADISON
MADISON, ALABAMA
Date: 04/15/2022
Project #: 572

STAIR SECTION DETAILS

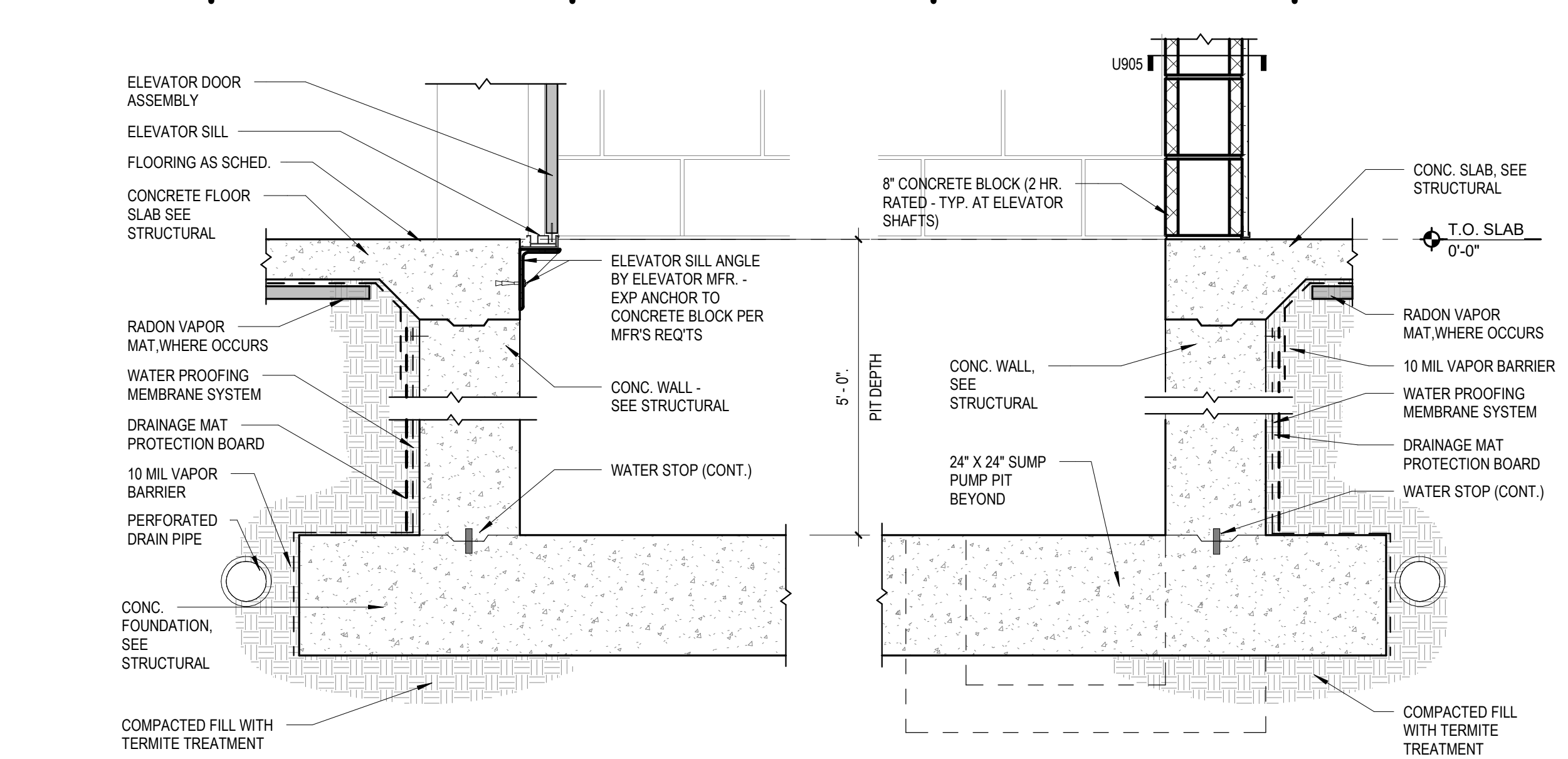
A3.31

GENERAL NOTES:

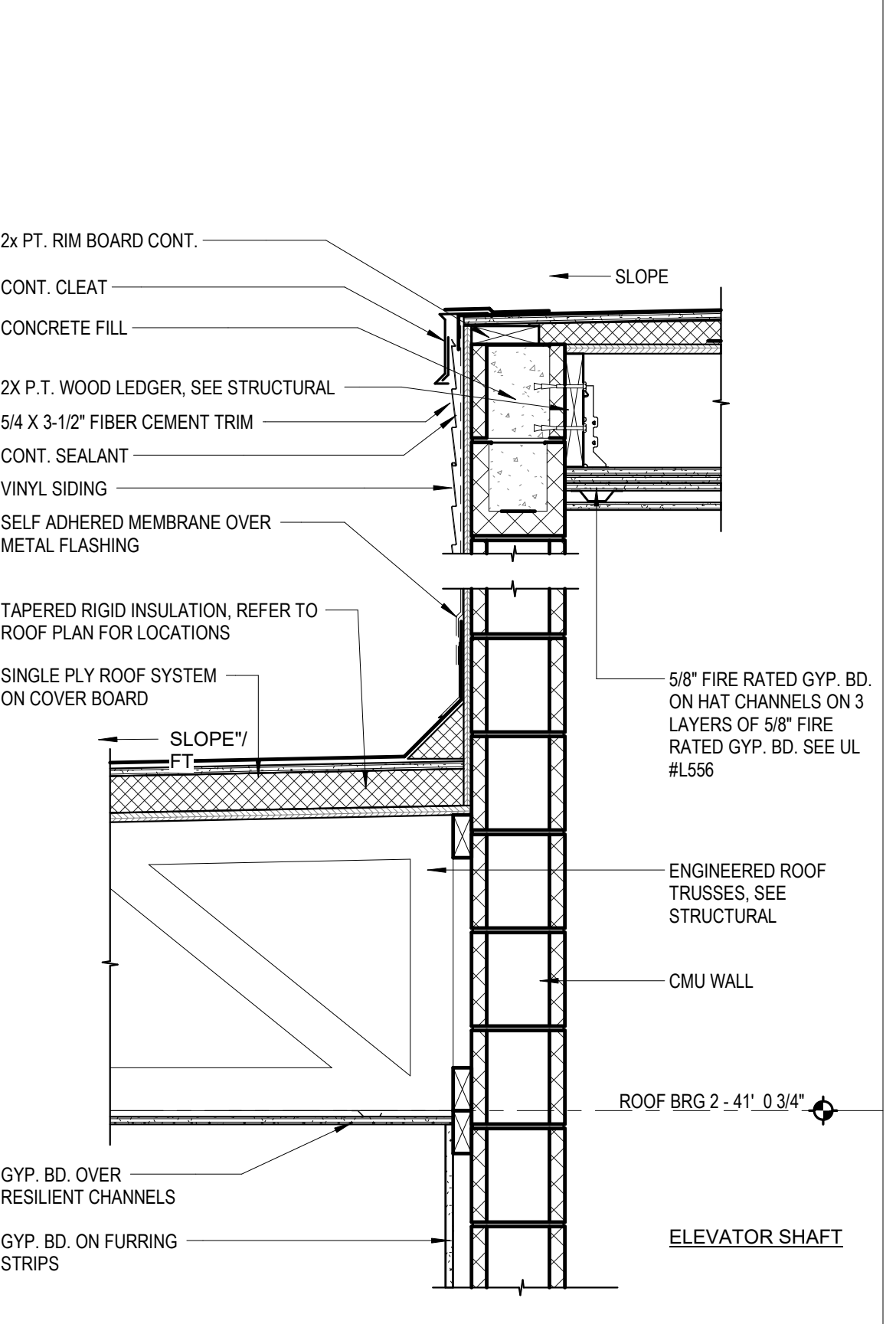
PROVIDED DATA IS FOR REFERENCE ONLY. COMPONENT MATERIALS, SIZES, FABRICATION AND ATTACHMENTS ARE TO BE CONFIRMED BY REQUIRED ENGINEER SUBMITTAL. SUBMIT ENGINEER FABRICATION DRAWINGS FOR REVIEW.
 SUBMITTED LADDER DESIGN AND INSTALLATION MUST MEET OR EXCEED DESIGN LOAD REQUIRED BY APPLICABLE CODES AND REGULATIONS.
 ALL COMPONENTS ARE TO BE PRIMED AND PAINTED. REFER TO SPECIFICATIONS.



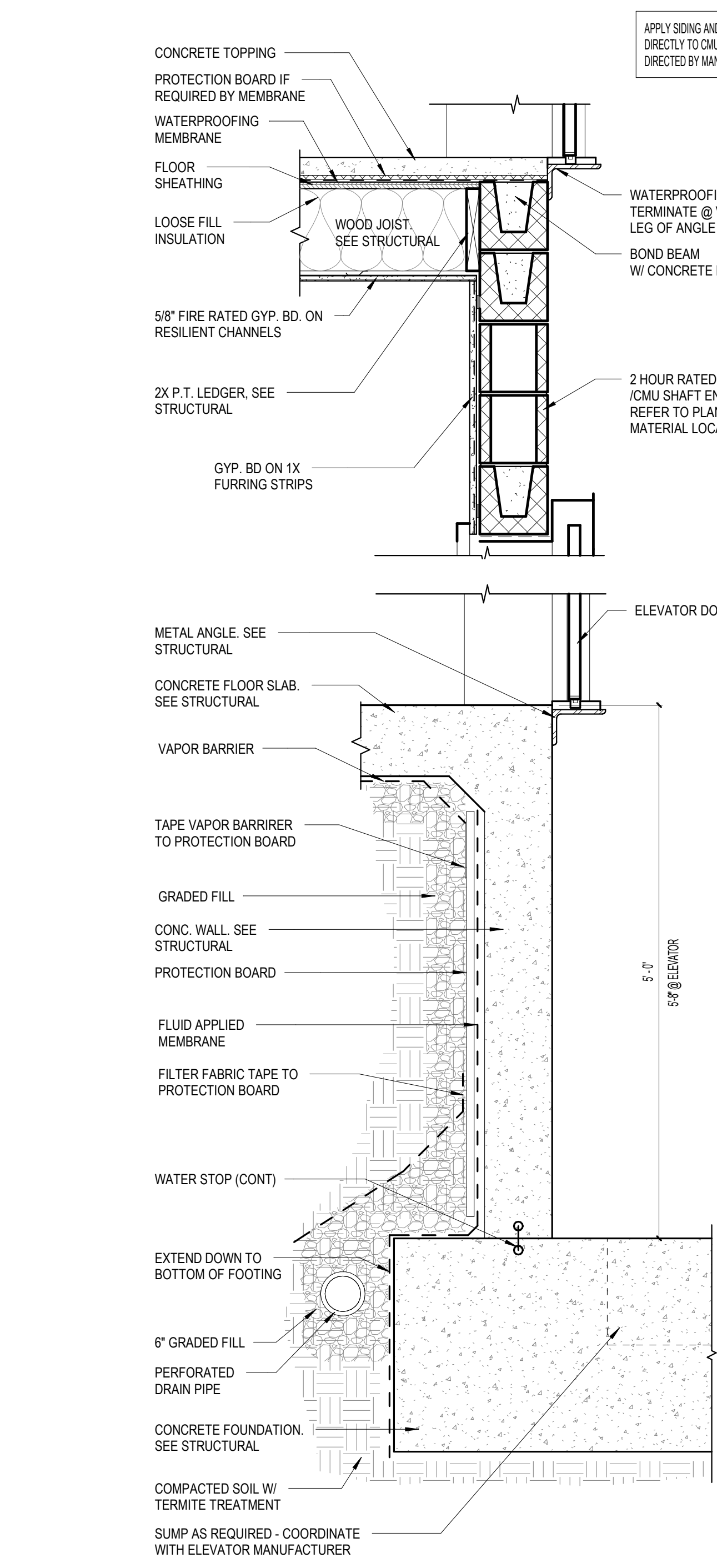
D5 PIT LADDER DETAIL
3/4" = 1'-0"



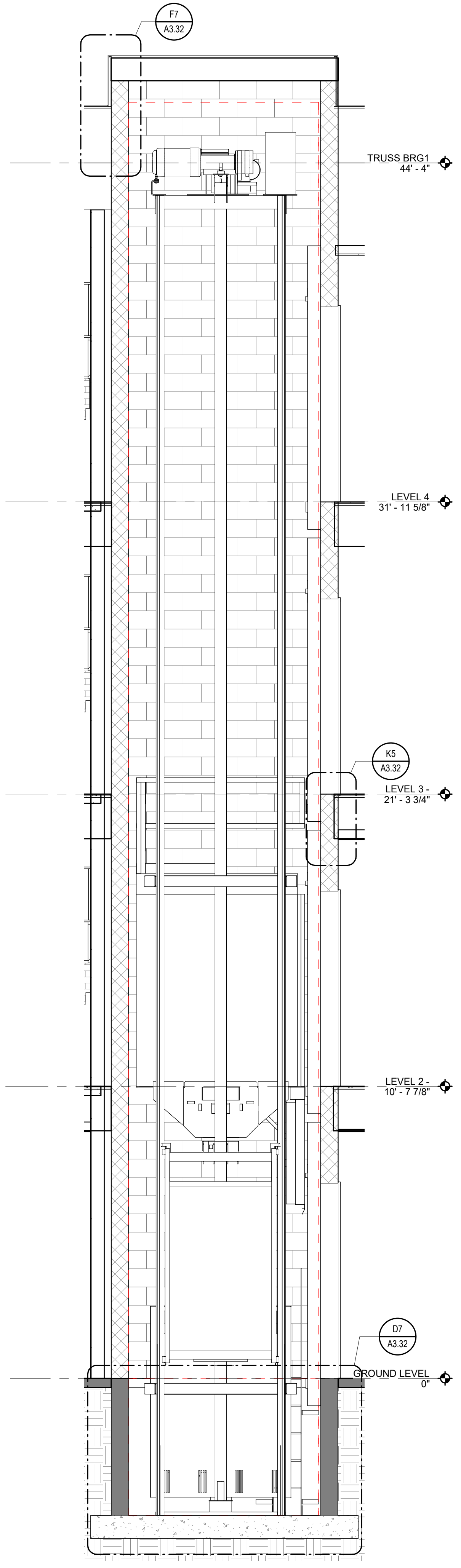
D7 SECTION THROUGH ELEVATOR PIT
1" = 1'-0"



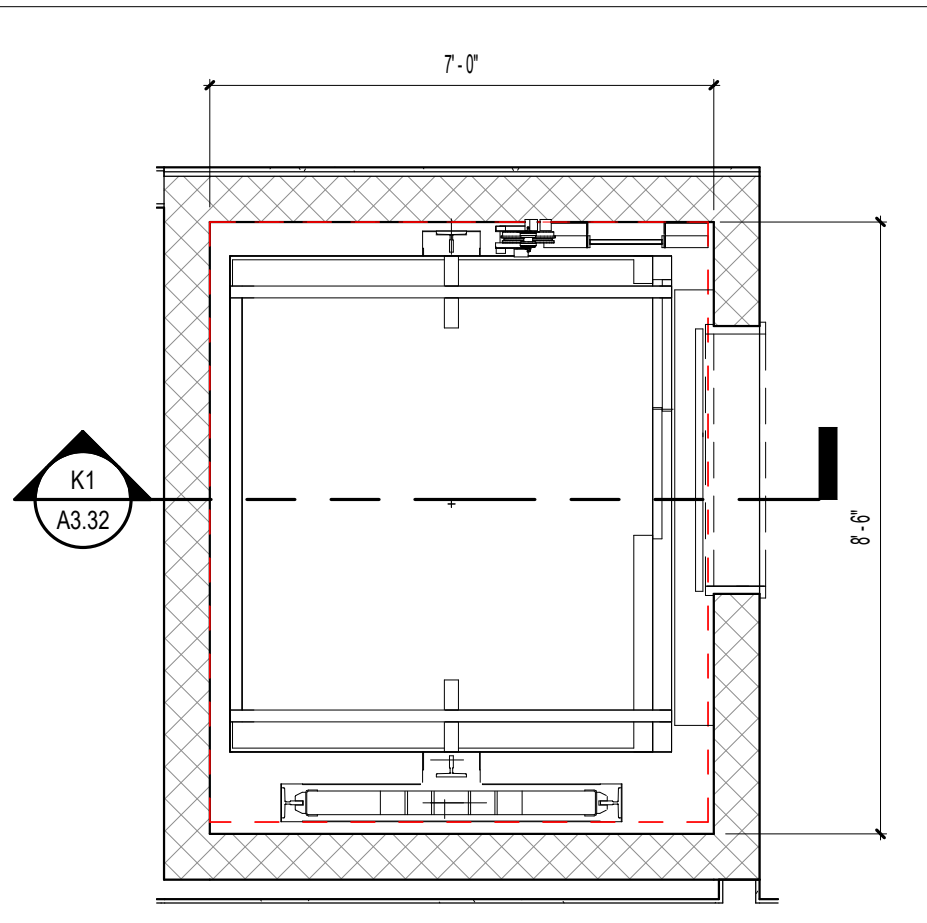
F7 ELEVATOR ROOF DETAIL - CMU
1" = 1'-0"



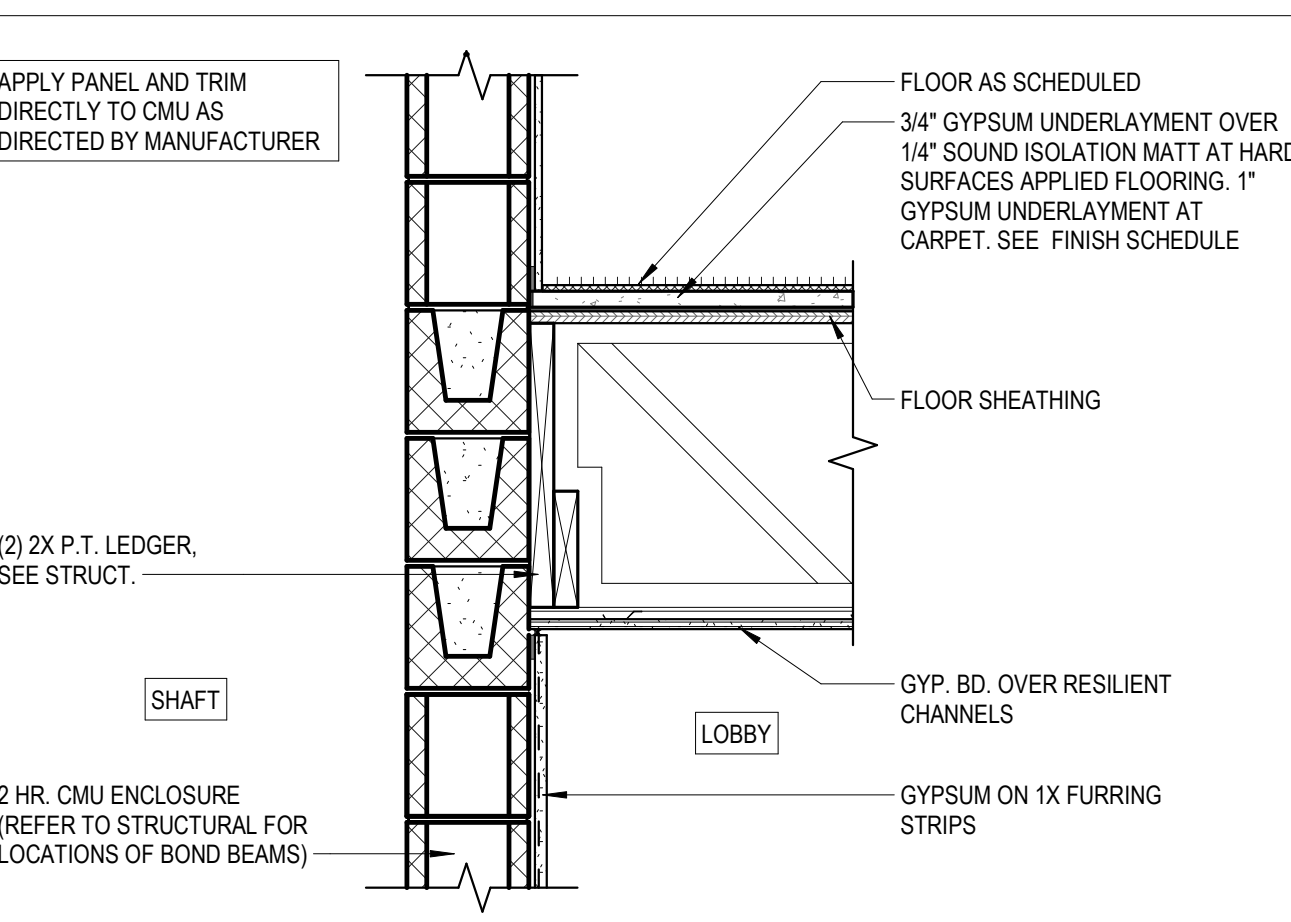
H10 ELEVATOR WALL DETAIL
1" = 1'-0"



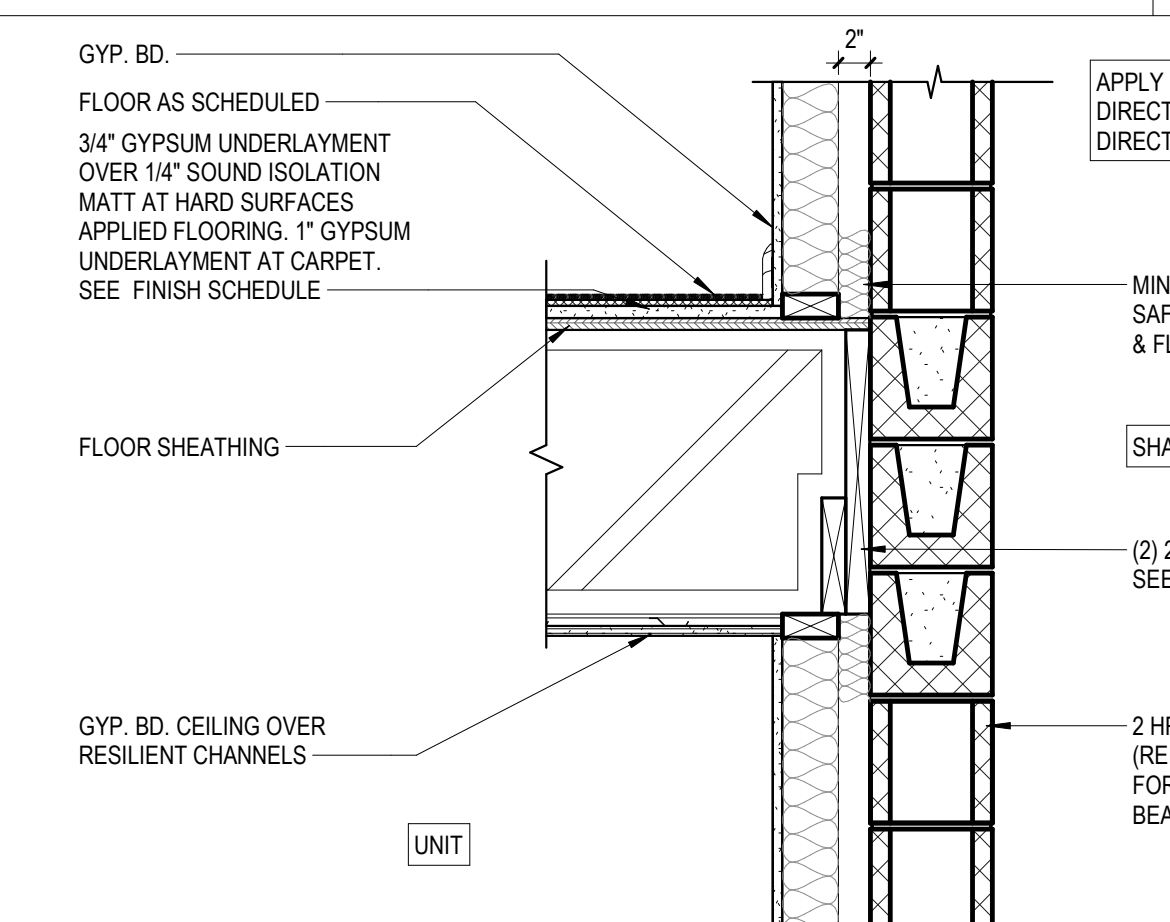
K1 TYPICAL ELEVATOR SECTION
3/8" = 1'-0"



H5 TYPICAL ELEVATOR PLAN
3/8" = 1'-0"



K5 ELEVATOR @ TYP. LVL.
1" = 1'-0"



K7 ELEVATOR @ TYP. LVL.
1" = 1'-0"

ISSUE HISTORY

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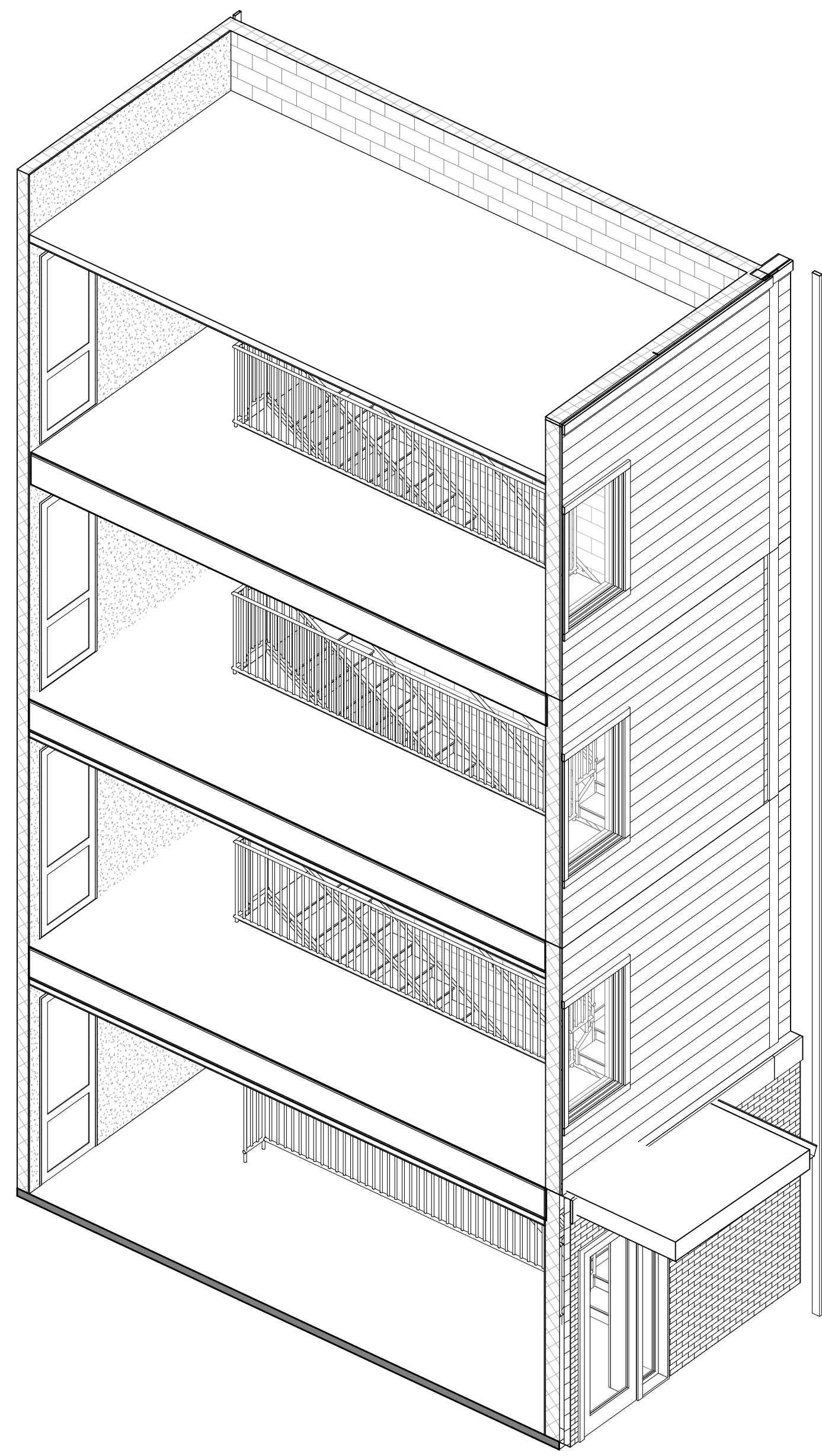
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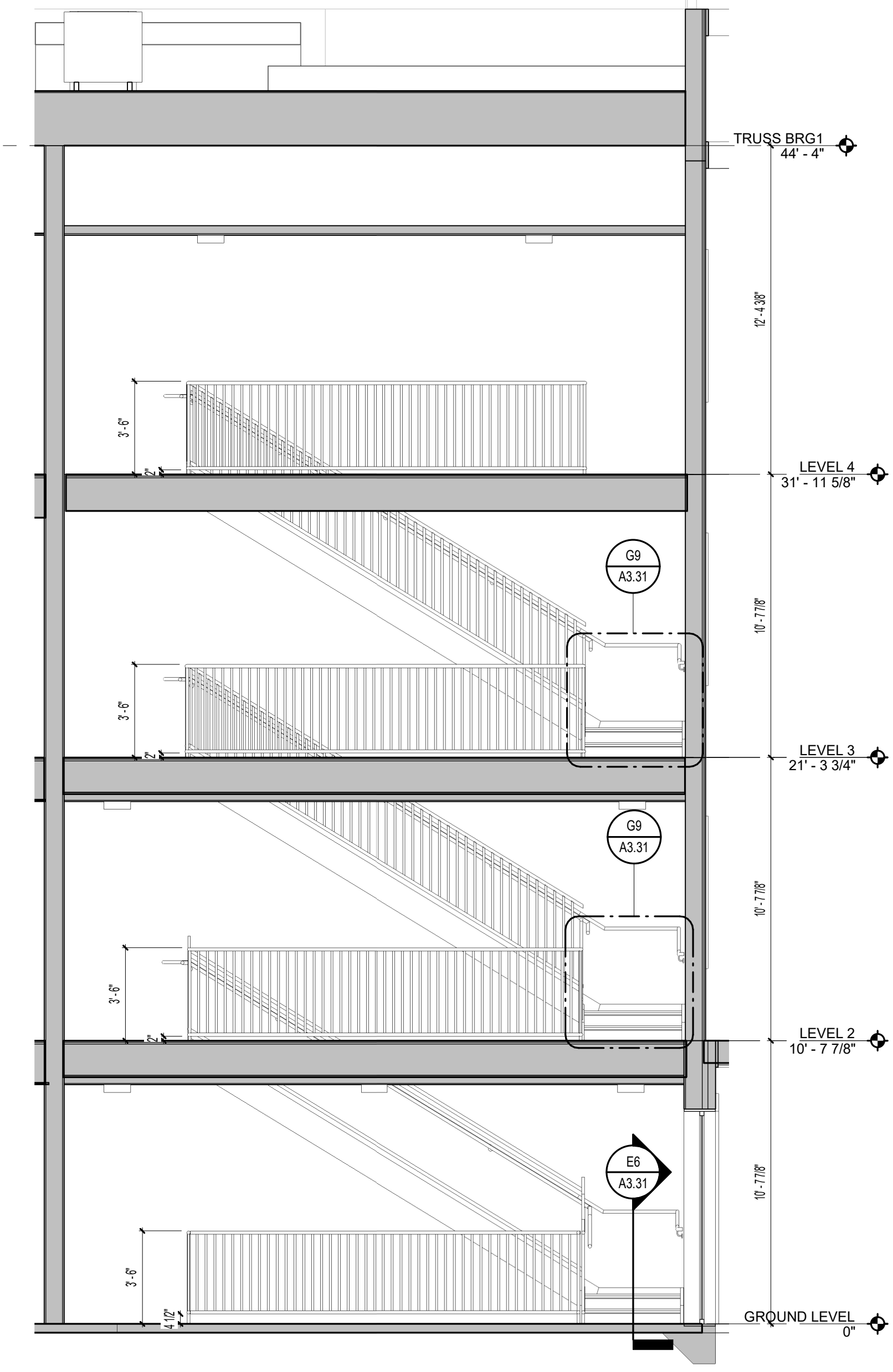
 MICHAEL DOVE
 PE

THE ROBERT MADISON
 MADISON, ALABAMA
ELEVATOR ENLARGED PLAN, SECTION AND DETAILS
A3.32

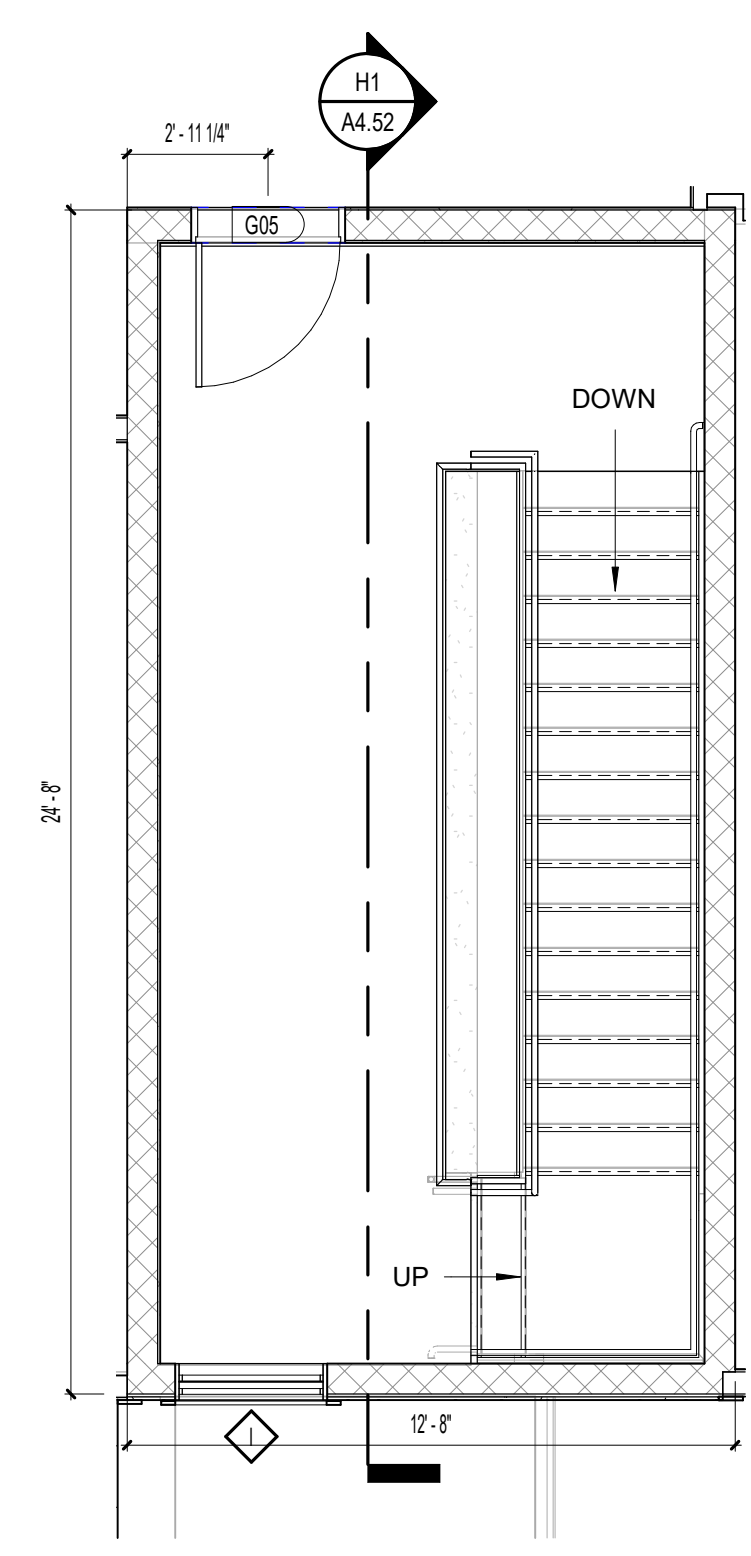
Drawn	MB
Checked	JK
Approval	MS
Date	04/15/2022
Project #	572



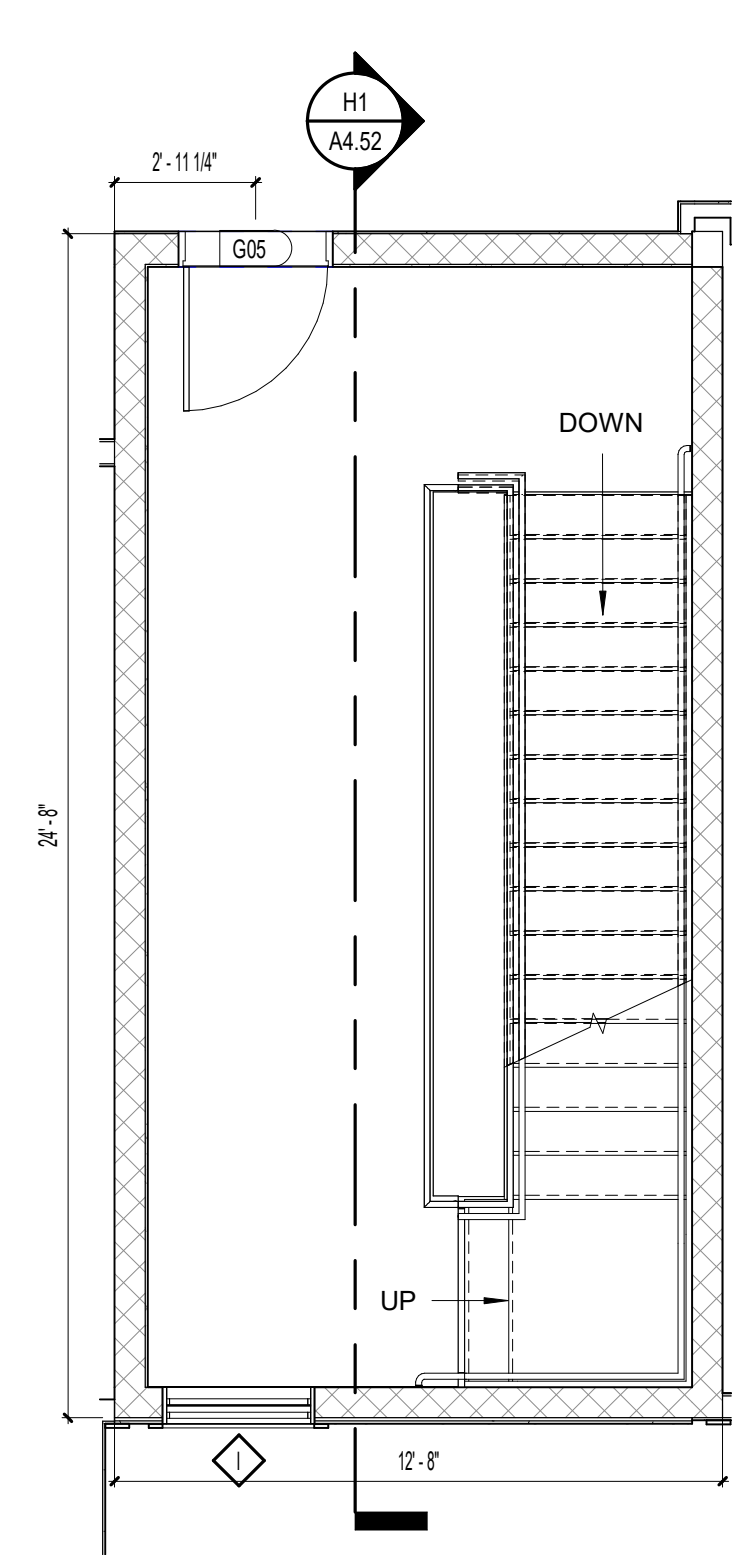
E4 3D STAIR 1 VIEW - BUILDING TYPE B



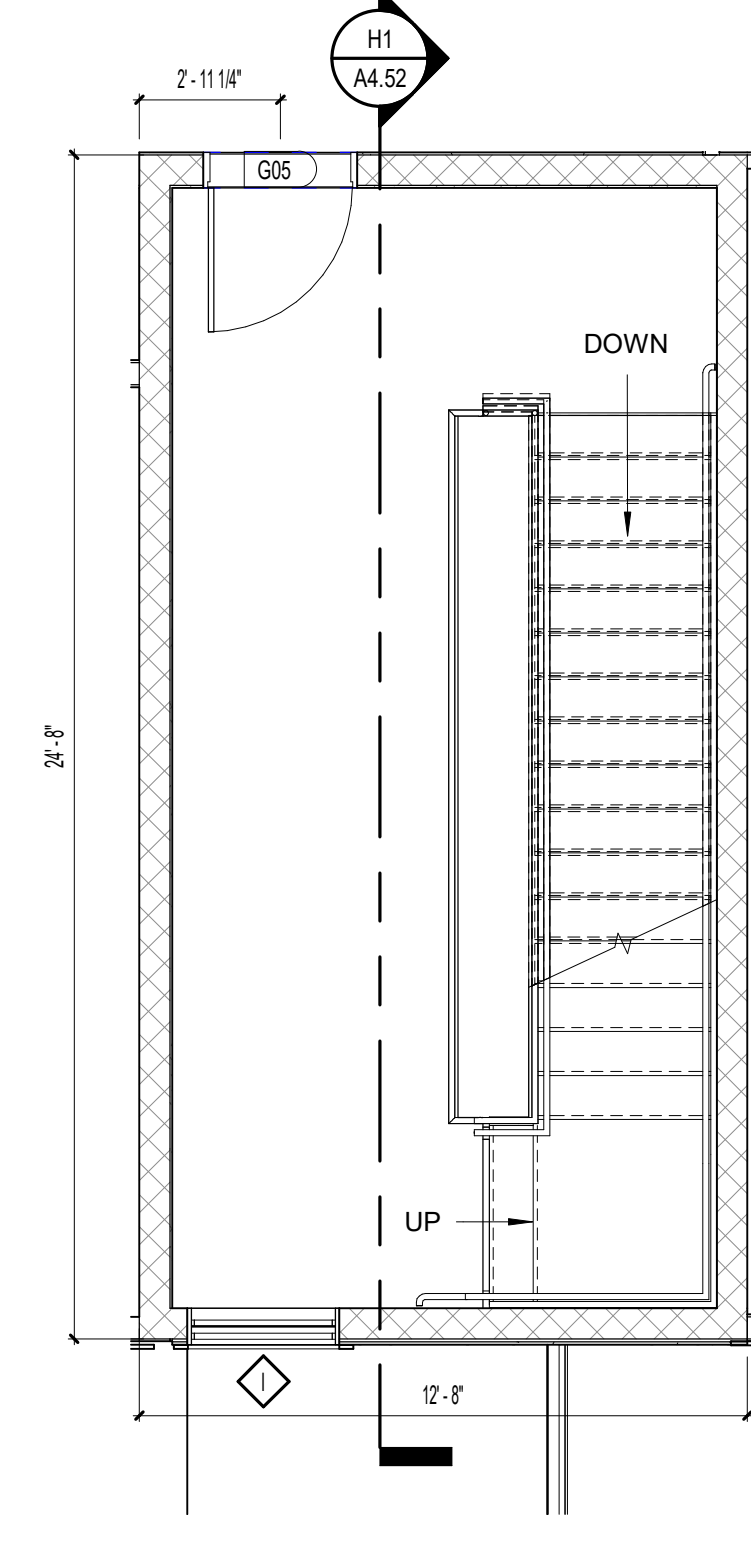
E7 BUILDING TYPE B - SECTION 2
1/4" = 1'-0"



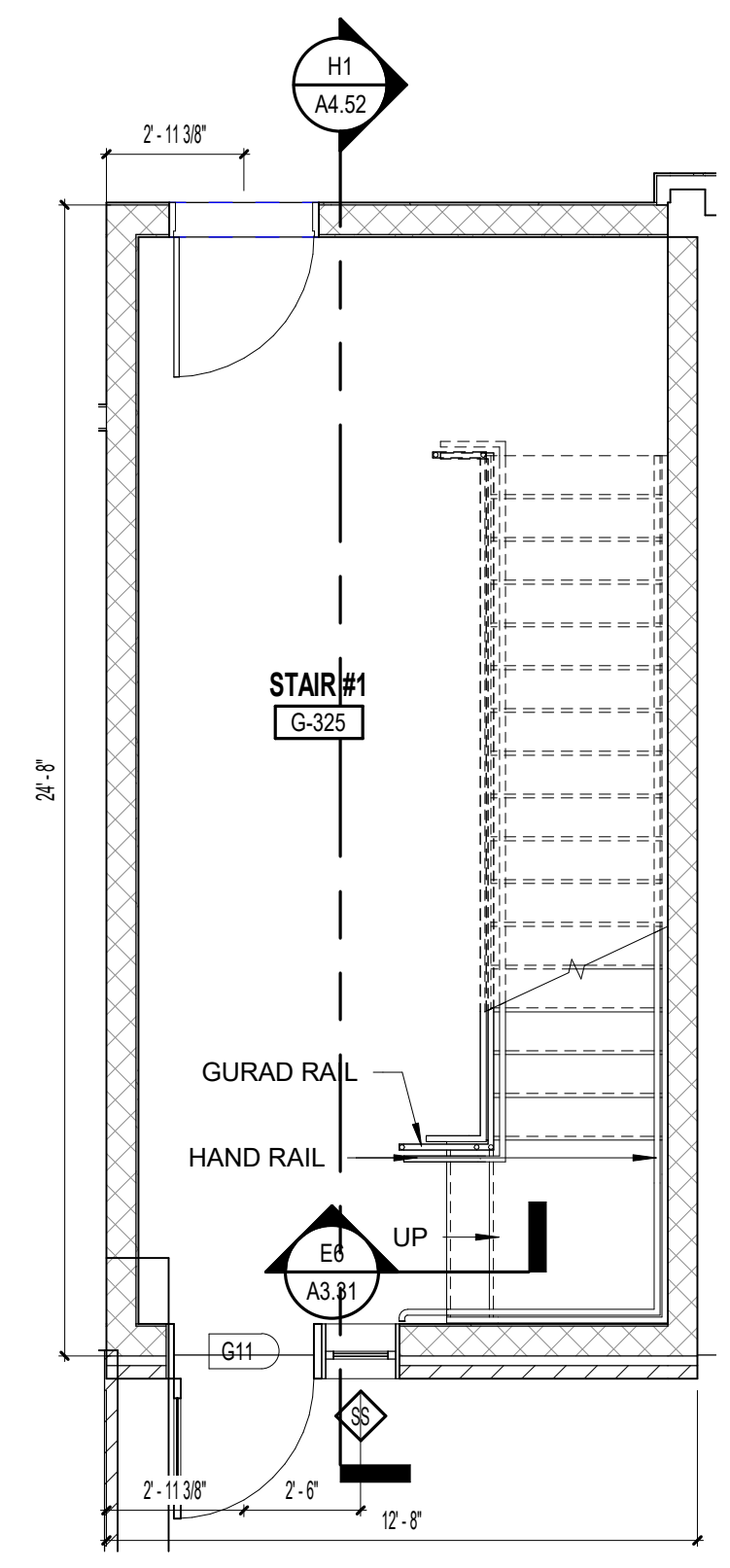
K1 STAIR 1 PLAN - BUILDING TYPE B - LEVEL 4
1/4" = 1'-0"



K4 STAIR 1 PLAN - BUILDING TYPE B - LEVEL 3
1/4" = 1'-0"



K7 STAIR 1 PLAN - BUILDING TYPE B - LEVEL 2
1/4" = 1'-0"



K11 STAIR 1 PLAN - BUILDING TYPE B - GROUND LEVEL
1/4" = 1'-0"

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No.	Date	Description

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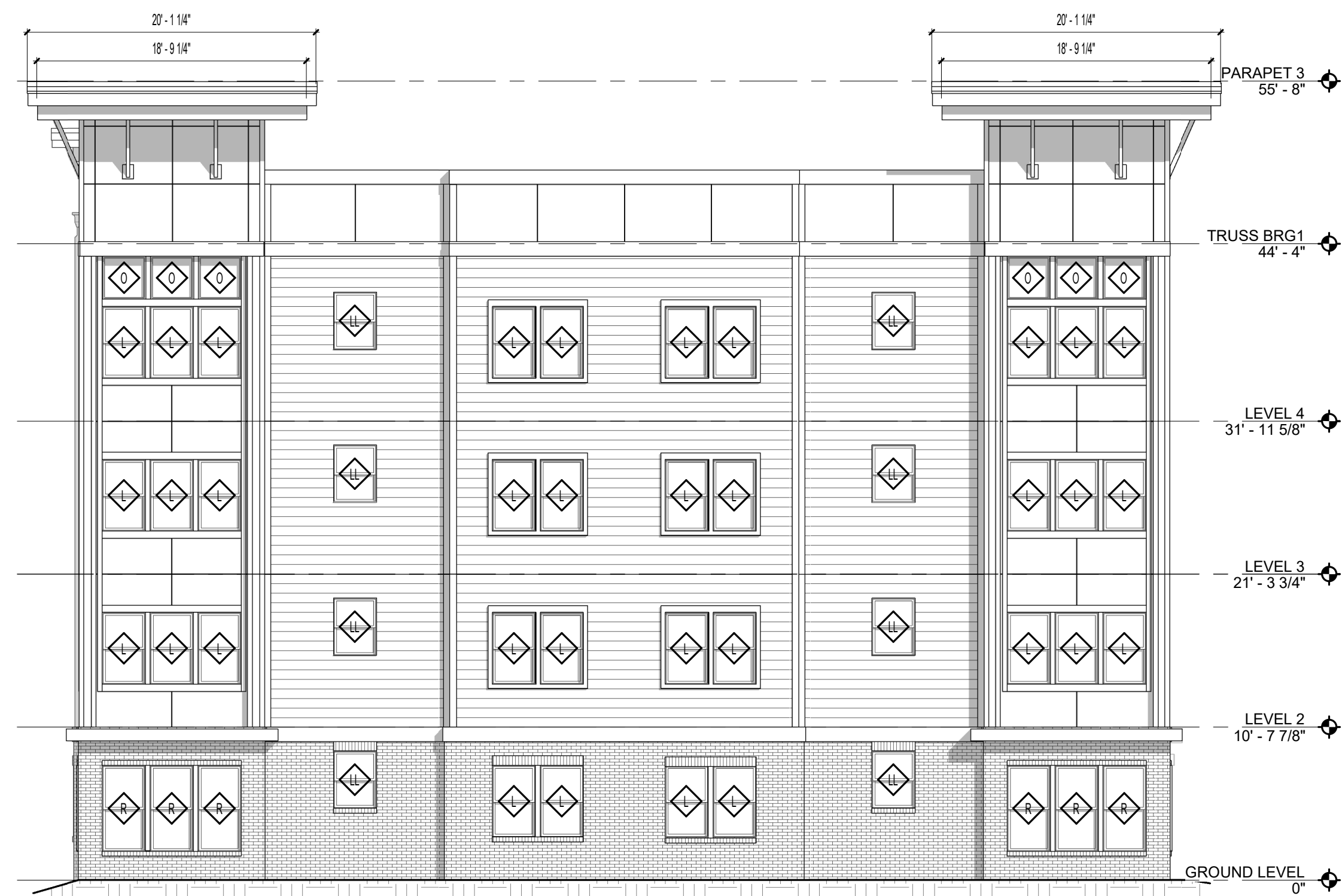
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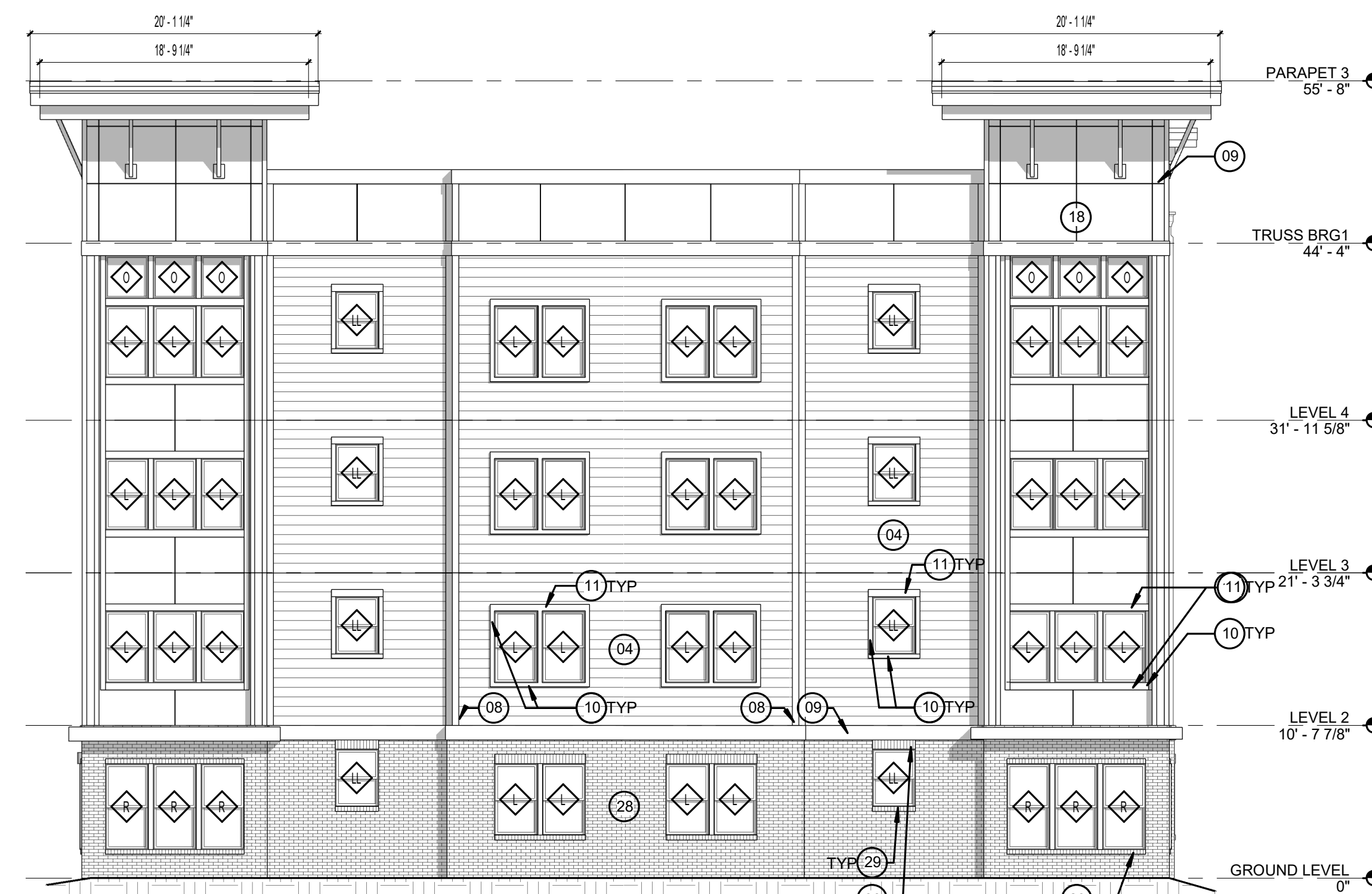
MICHAEL GOIVE
PEM

THE ROBERT MADISON	Drawn: MB
MADISON, ALABAMA	Checked: JK
BUILDING TYPE B - STAIR PLANS, SECTIONS AND AXONOMETRIC	Approval: MS
A3.33	Date: 04/15/2022
	Project #: 572

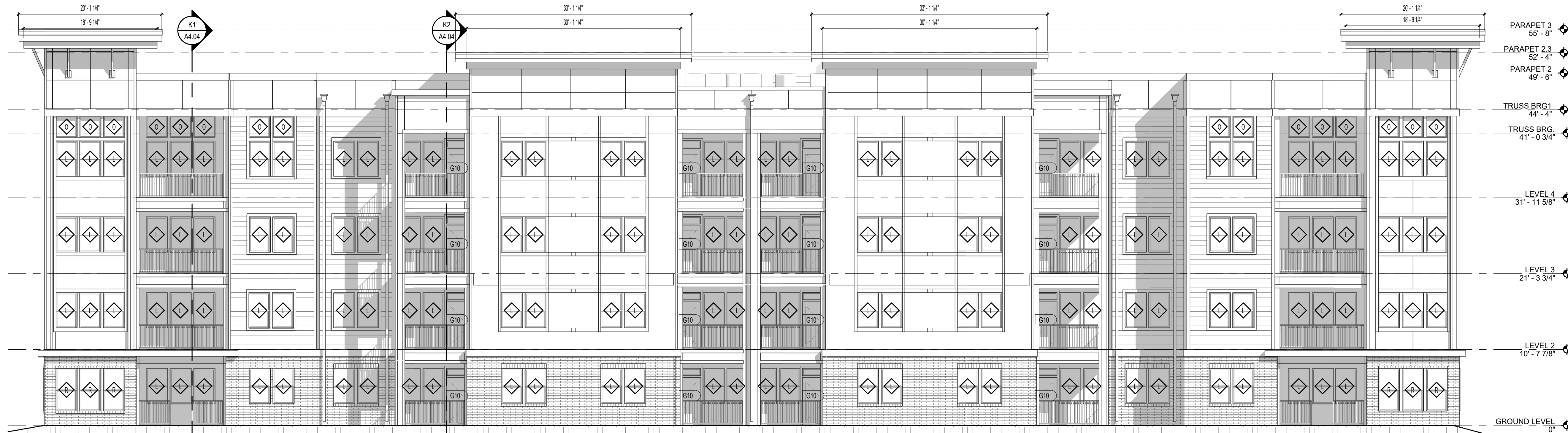
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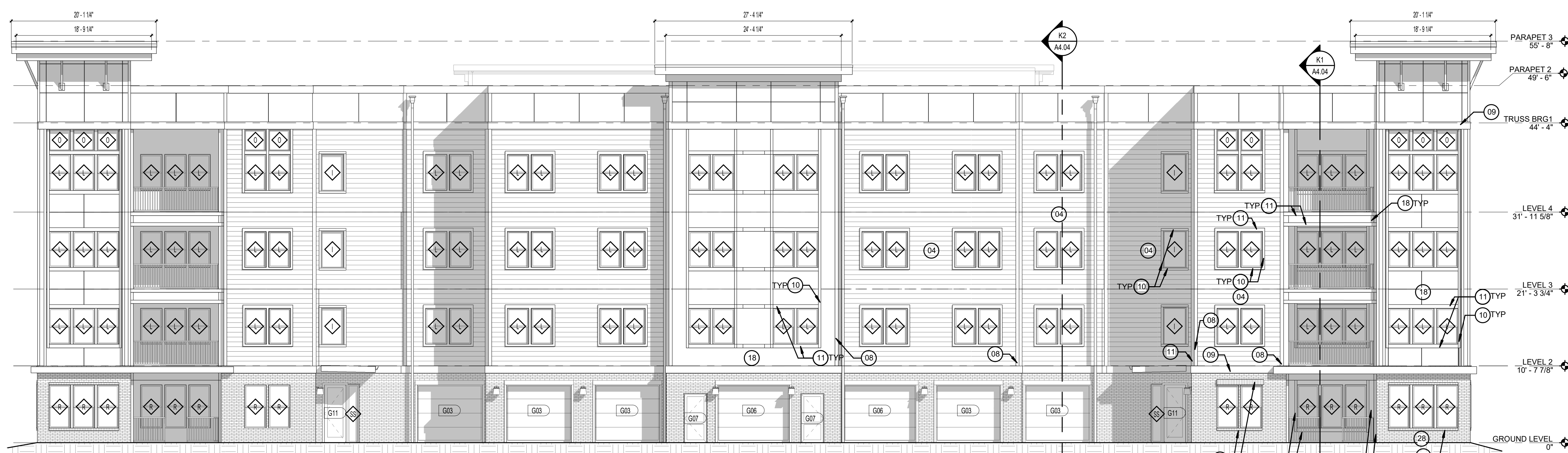
C3 BUILDING TYPE B - LEFT SIDE ELEVATION
1/8" = 1'-0"



C8 BUILDING TYPE B - RIGHT SIDE ELEVATION
1/8" = 1'-0"



F2 BUILDING TYPE B - REAR ELEVATION
1/8" = 1'-0"



K2 BUILDING TYPE B - FRONT ELEVATION
1/8" = 1'-0"

LEGEND:

- 01 ASPHALT SHINGLES
- 02 DECORATIVE LOUVER - 3'-0" X 12'-0"
- 03 NOT USED
- 04 FIBER CEMENT SIDING 6" EXPOSURE
- 05 NOT USED
- 06 NOT USED
- 07 NOT USED
- 08 5/4 x 5-1/2" FIBER CEMENT CORNER TRIM
- 09 5/4 x 11-1/4" FIBER CEMENT TRIM
- 10 5/4 x 5-1/2" FIBER CEMENT TRIM
- 11 CONDENSING UNIT - SEE MECHANICAL
- 12 VINYL TRIM - 5" DOUBLE CHANNEL LINEAL
- 13 2x8 P.T. FASCIA ALUMINUM WRAPPED
- 14 NOT USED
- 15 6" PREFINISHED METAL RAIN GUTTER
- 16 DOWNSPOUT
- 17 FIBER CEMENT PANEL
- 18 METER CENTER - SEE MECH. FOR LOCATION
- 19 LIGHTED BUILDING NUMBER SIGN
- 20 BUILDING APARTMENT NUMBER SIGN
- 21 NOT USED
- 22 EXHAUST VENTS
- 23 APARTMENT NUMBER SIGN
- 24 EXTERIOR WALL LIGHT - SEE ELECTRICAL
- 25 METAL RAILING SYSTEM
- 26 LOUVER - 4'-0" X 4'-0"
- 27 BRICK
- 28 BRICK SILL
- 29 BRICK SOLDIER COURSE
- 30 NOT USED
- 31 NOT USED
- 32 NOT USED

ISSUE HISTORY

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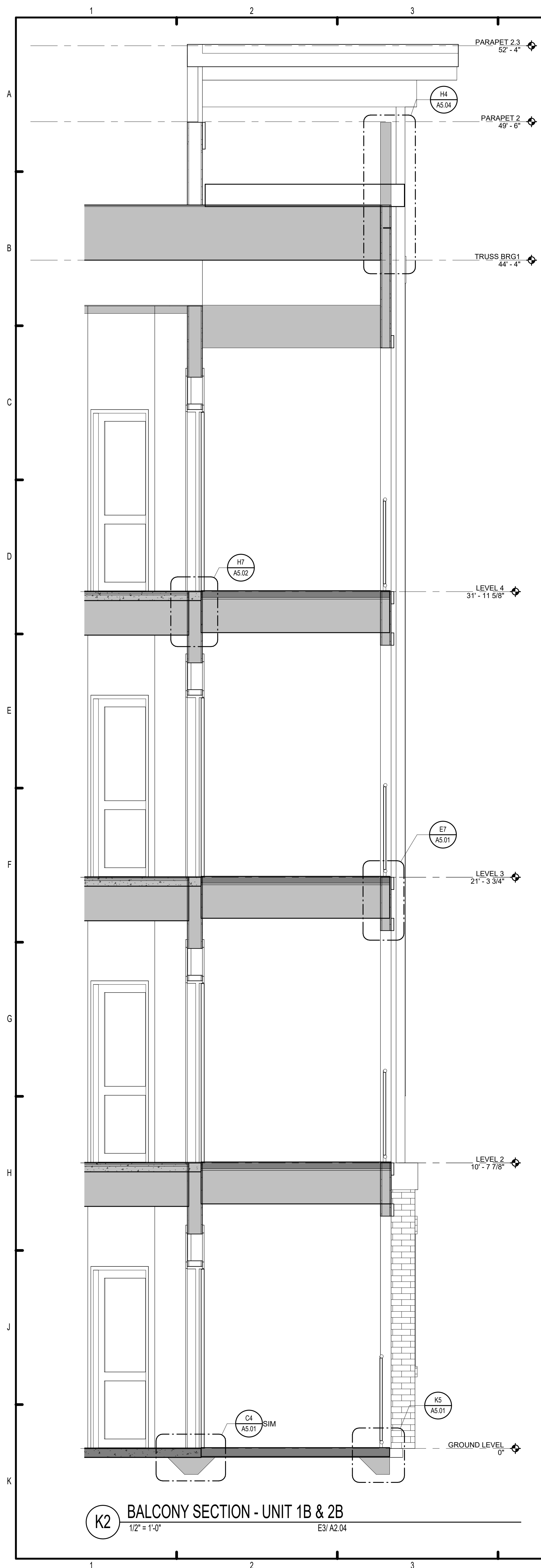


MICHAEL DOVE
SEA

THE ROBERT MADISON
MADISON, ALABAMA

BUILDING TYPE B - EXTERIOR ELEVATIONS

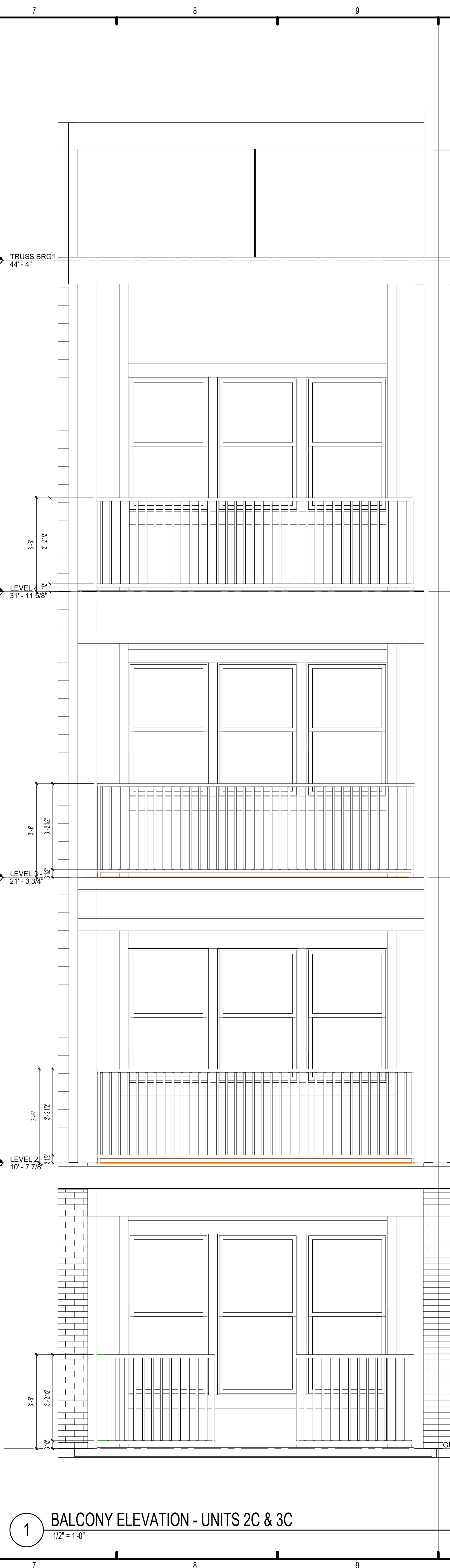
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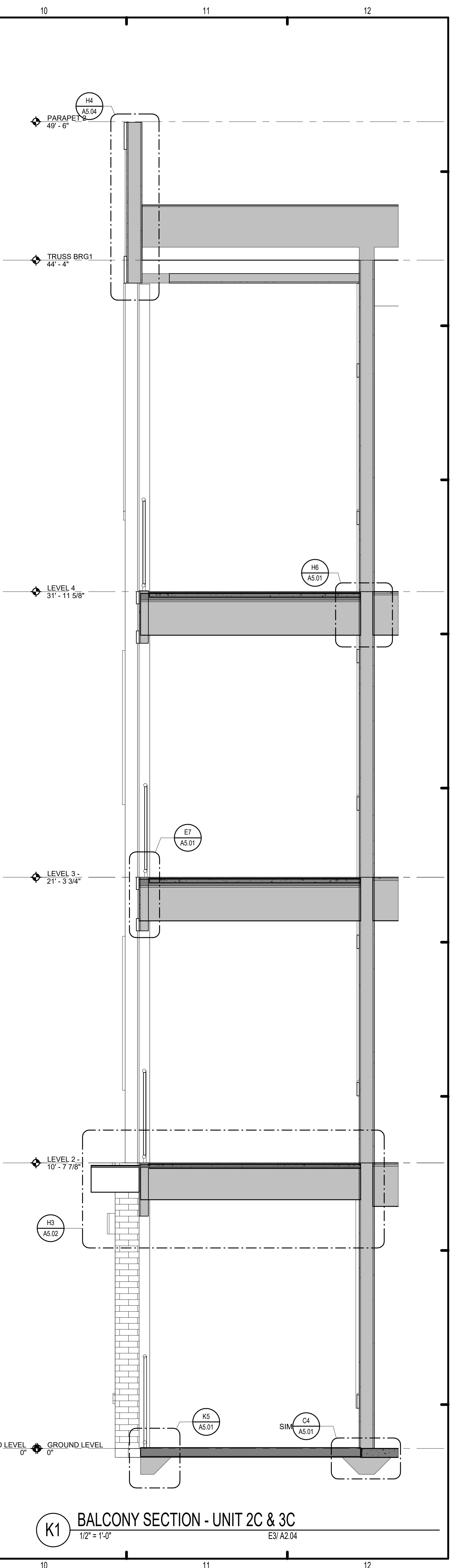
K2 BALCONY SECTION - UNIT 1B & 2B
 1/2" = 1'-0"
 E3/A2.04



K4 BALCONY ELEVATION - UNITS 1B & 2B
 1/2" = 1'-0"



1 BALCONY ELEVATION - UNITS 2C & 3C
 1/2" = 1'-0"



K1 BALCONY SECTION - UNIT 2C & 3C
 1/2" = 1'-0"
 E3/A2.04

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CONSULTANT

STATE OF ALABAMA
 PROFESSIONAL ENGINEER
 8234
 4/15/22
 REGISTERED ARCHITECT

MICHAEL GOVE
 SEA

THE ROBERT MADISON
 MADISON, ALABAMA

ENLARGED PATIO/BALCONY ELEVATIONS

A4.04

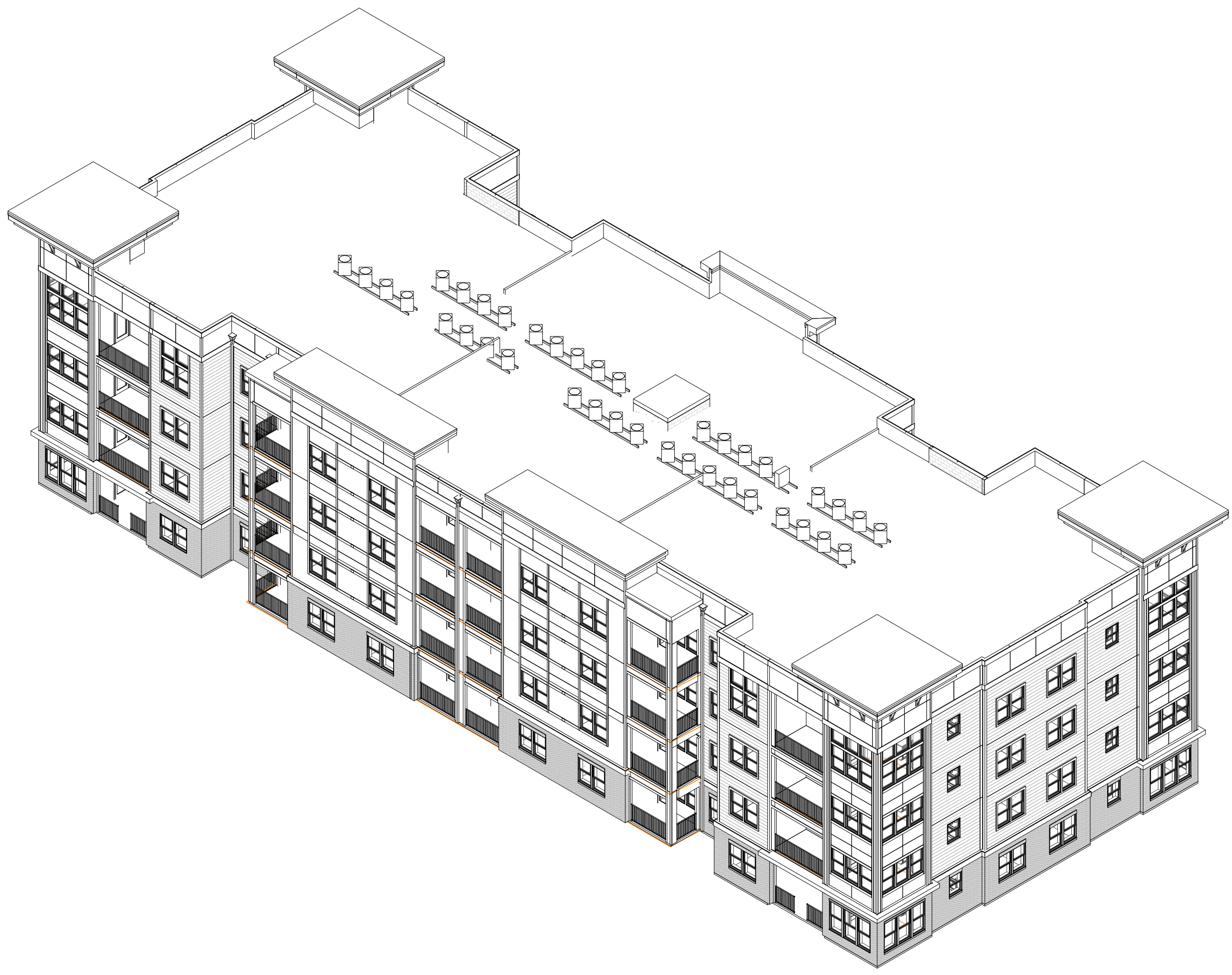
Drawn: MB
 Checked: JK
 Approval: MS
 Date: 04/15/2022
 Project #: 5722

PLOTTED: 03/02/2022 3:28:16 PM



E1 BUILDING TYPE B - AXONOMETRIC 1

E8 BUILDING TYPE B - AXONOMETRIC 2



K1 BUILDING TYPE B - AXONOMETRIC 3

K8 BUILDING TYPE B - AXONOMETRIC 4

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REVISION HISTORY		
No.	Date	Description

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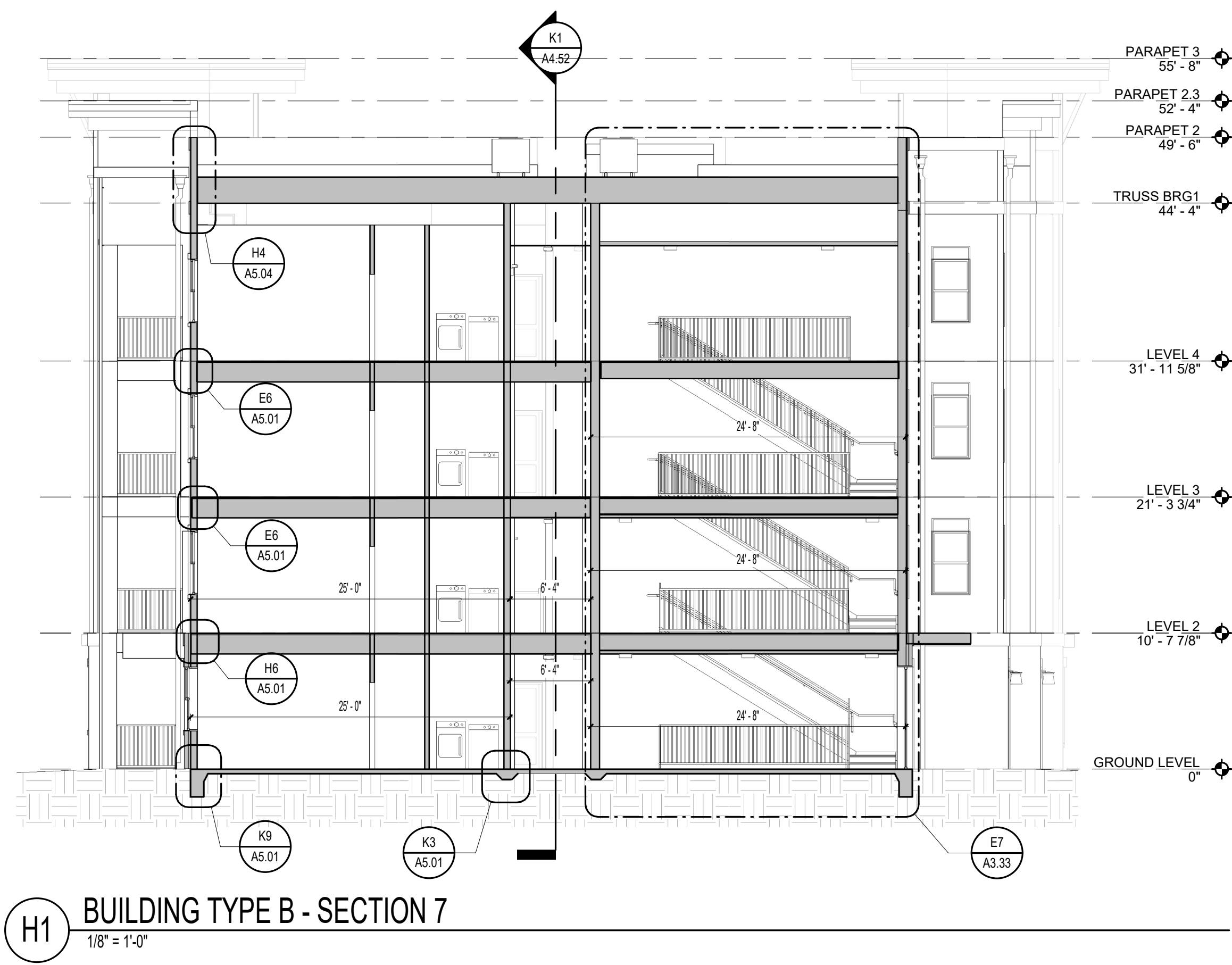
 MICHAEL DOVE
 PEIN

THE ROBERT MADISON	Drawn: MB
MADISON, ALABAMA	Checked: JK
	Approval: MS
	Date: 04/15/2022
	Project #: 572

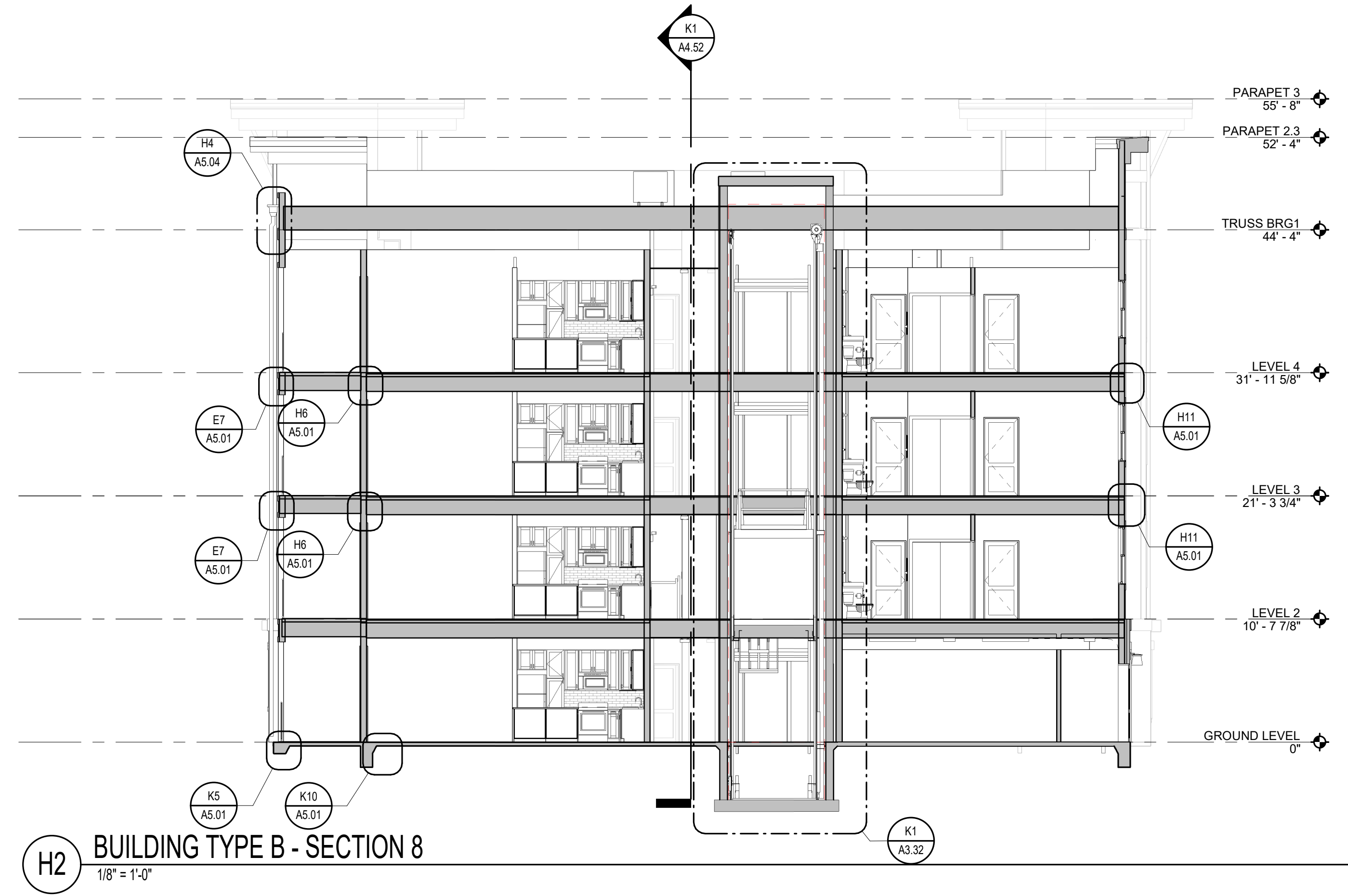
BUILDING TYPE B - AXONOMETRICS

A4.11

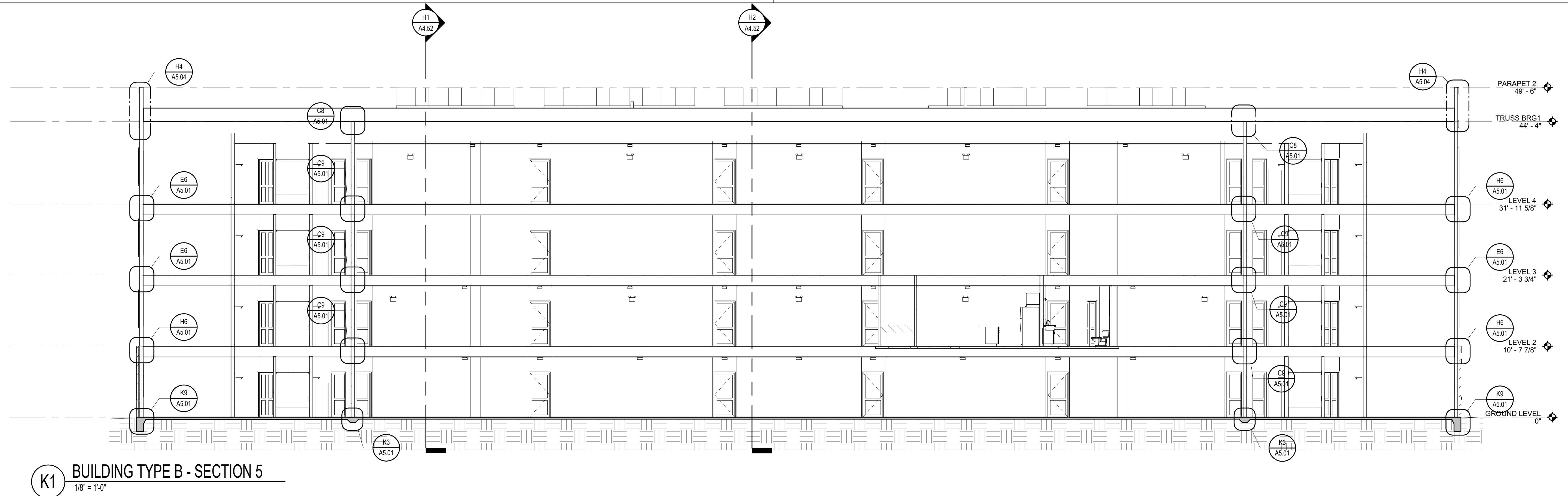
PLOTTED: 03/30/2022 3:50:16 PM



H1 BUILDING TYPE B - SECTION 7
1/8" = 1'-0"



H2 BUILDING TYPE B - SECTION 8
1/8" = 1'-0"

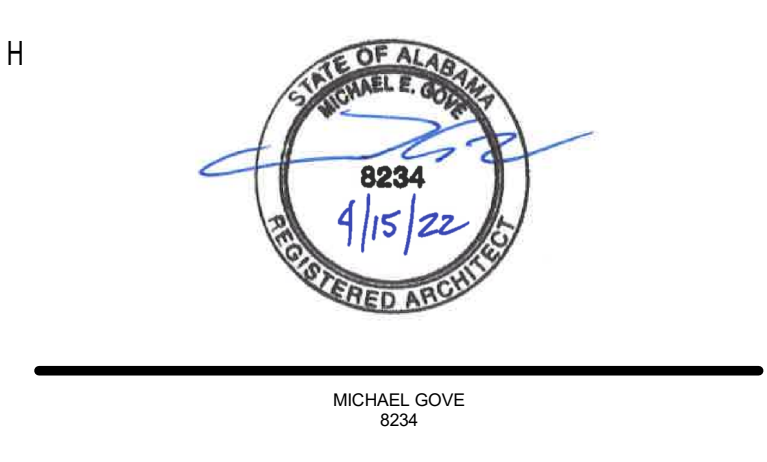


K1 BUILDING TYPE B - SECTION 5
1/8" = 1'-0"

ISSUE HISTORY		
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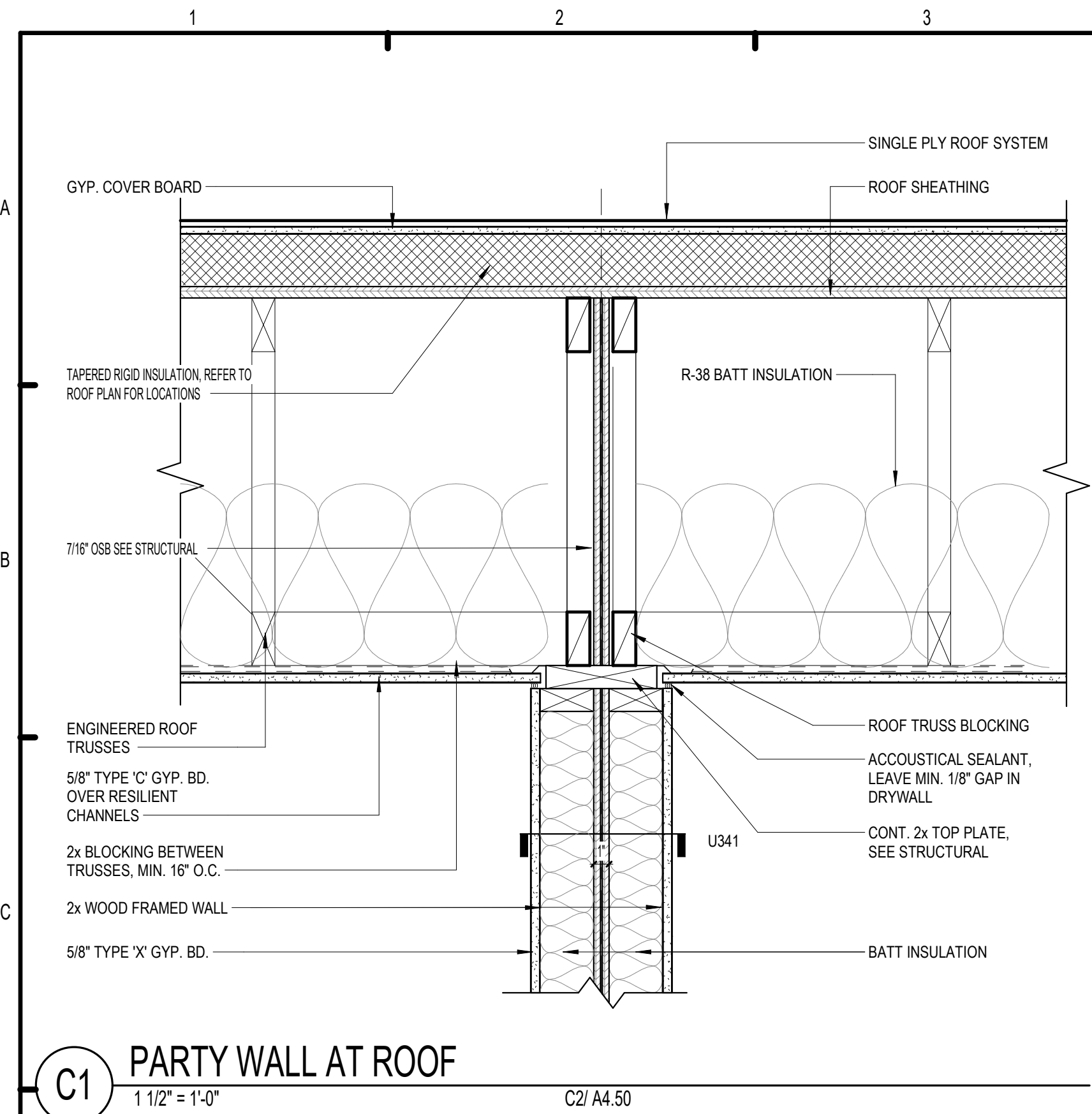
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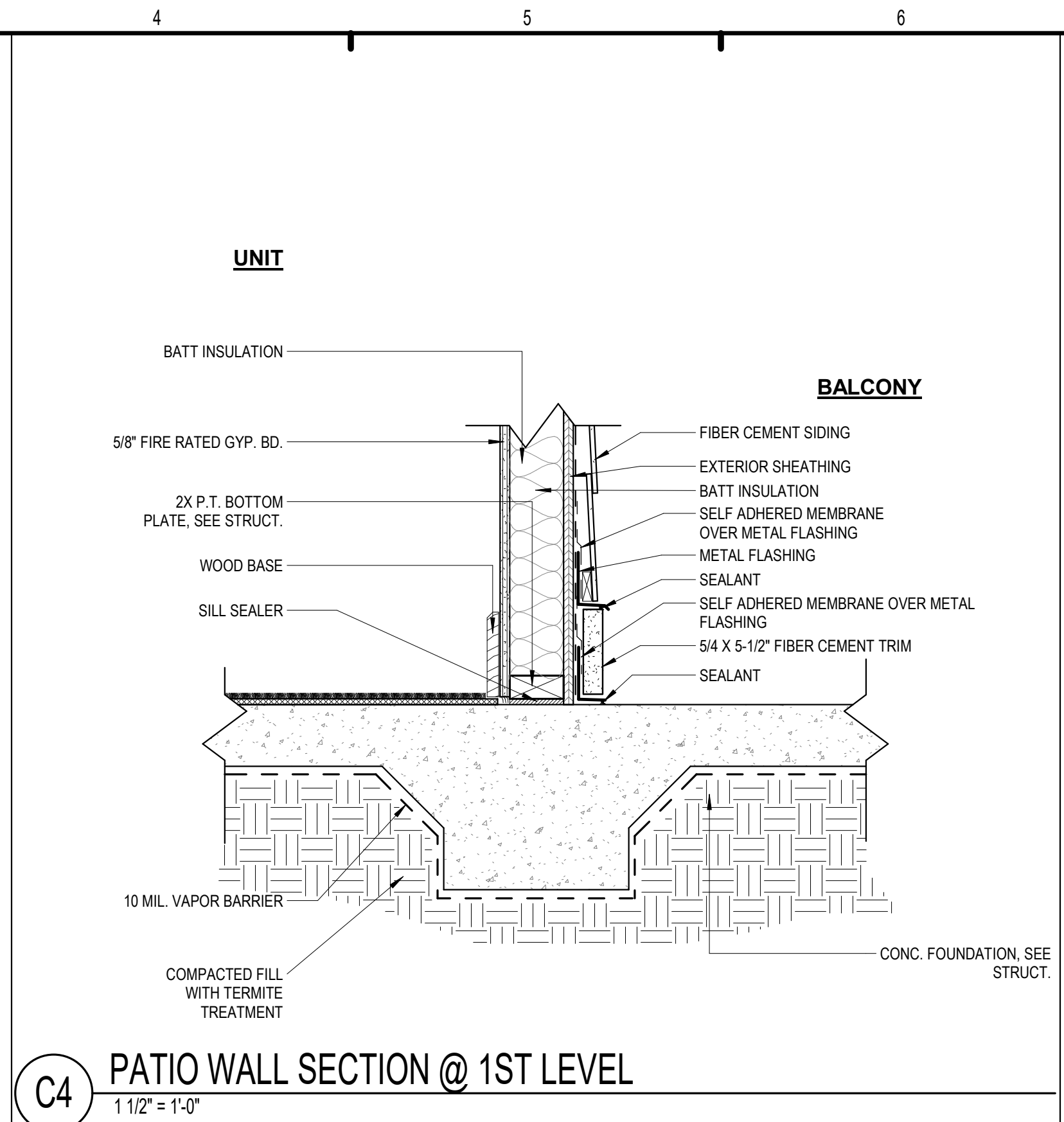
THE ROBERT MADISON
 MADISON, ALABAMA

BUILDING TYPE B - BUILDING SECTIONS

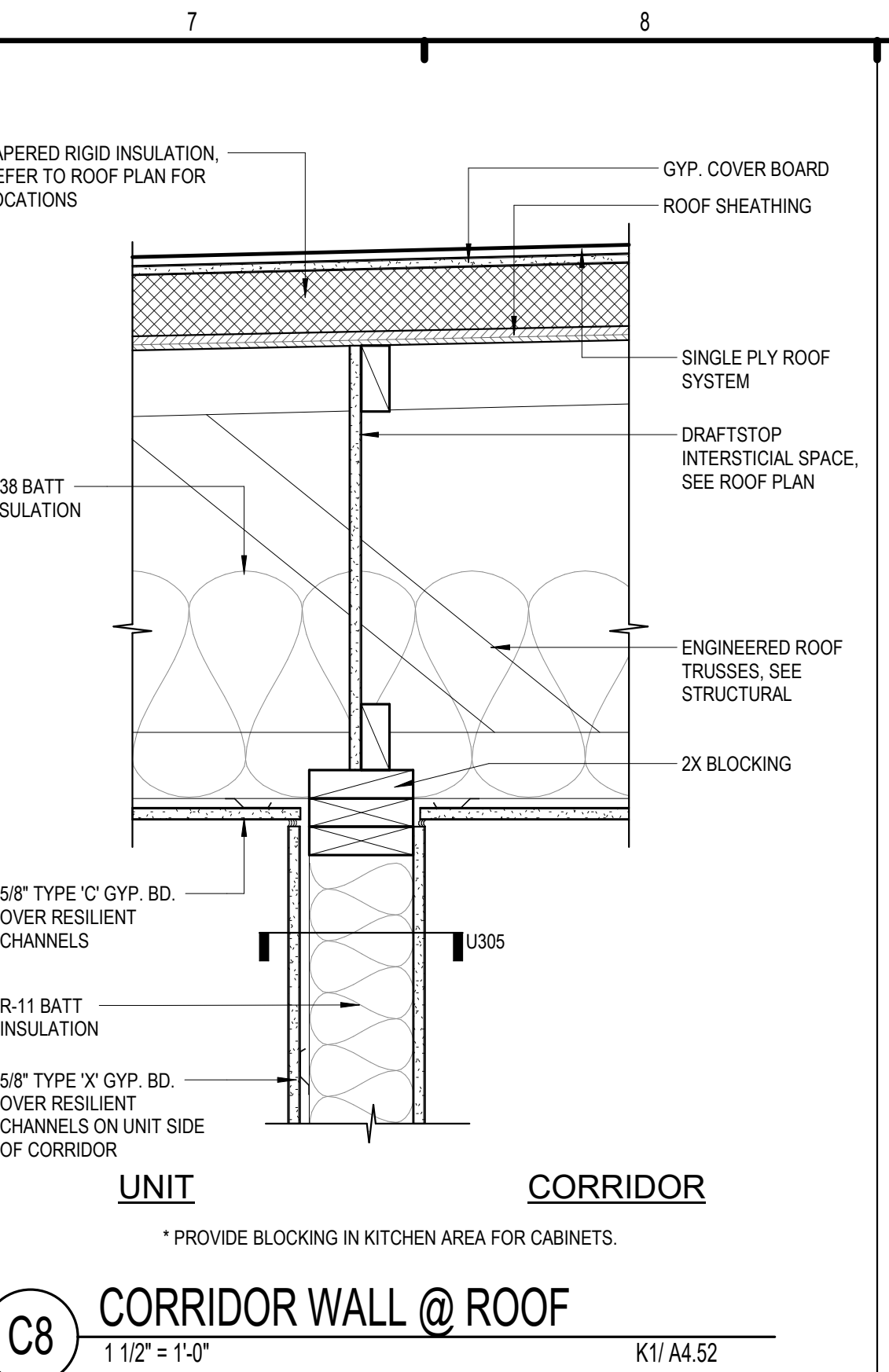
A4.52



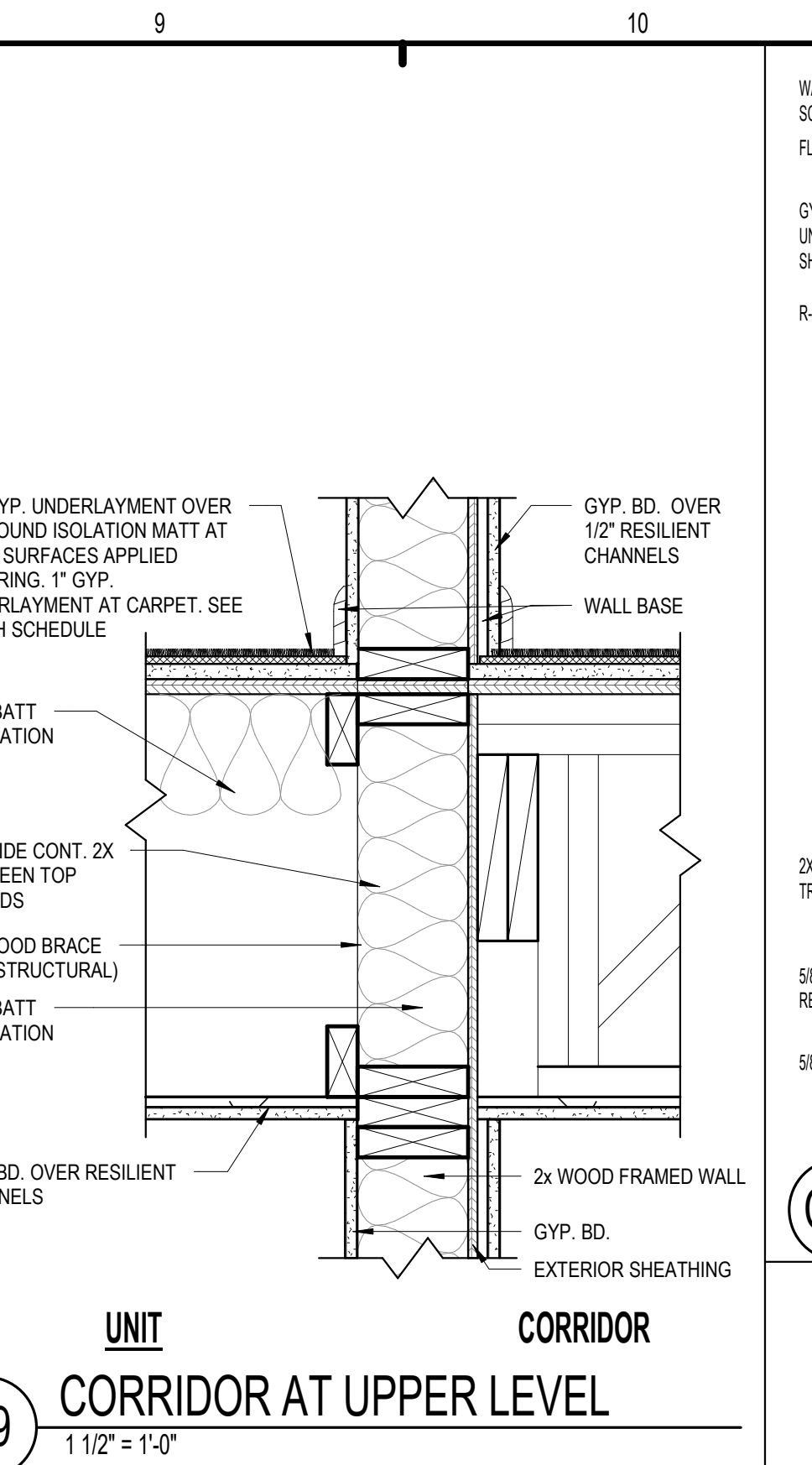
C1 PARTY WALL AT ROOF
1 1/2" = 1'-0"



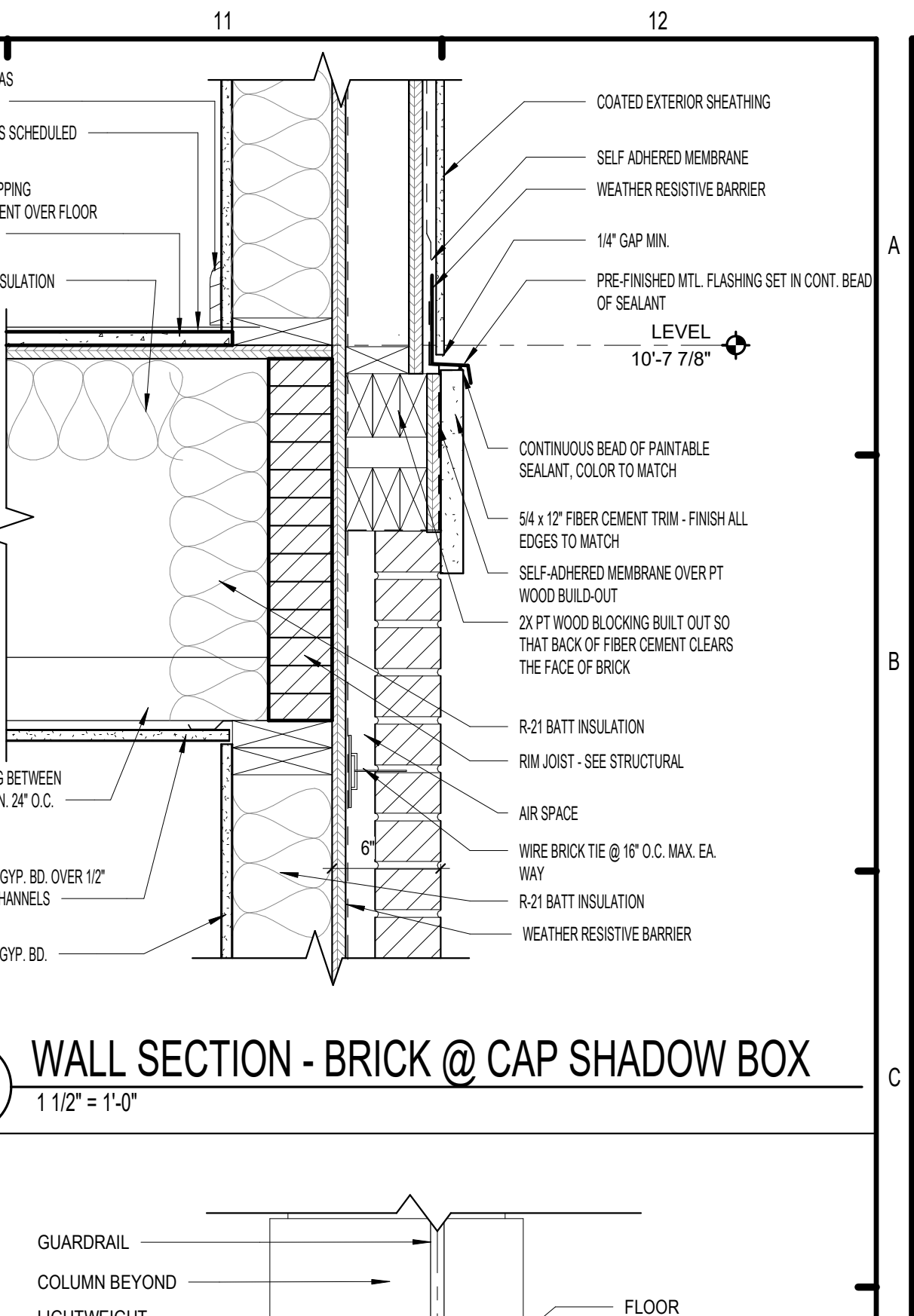
C4 PATIO WALL SECTION @ 1ST LEVEL
1 1/2" = 1'-0"



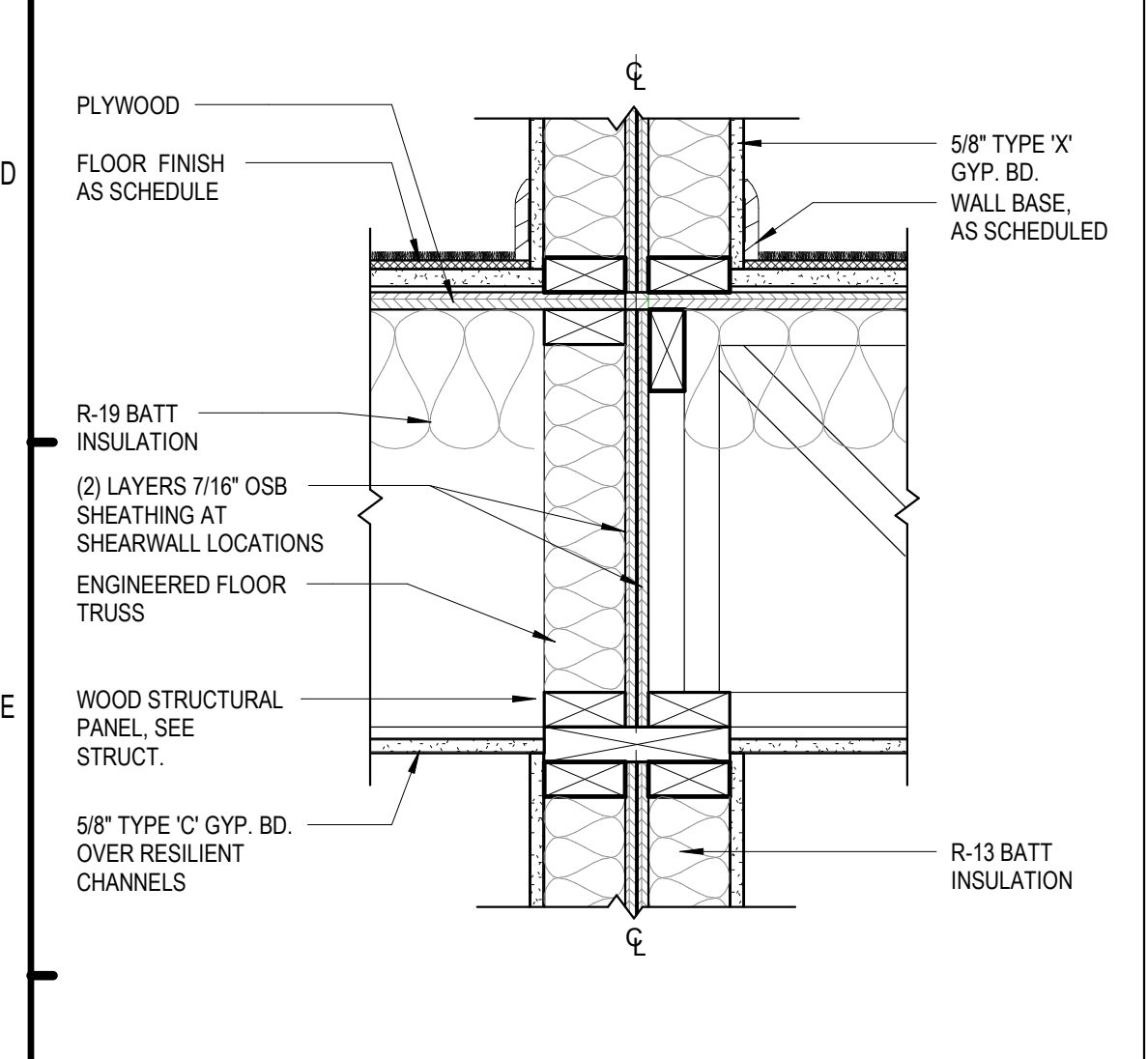
C8 CORRIDOR WALL @ ROOF
1 1/2" = 1'-0"



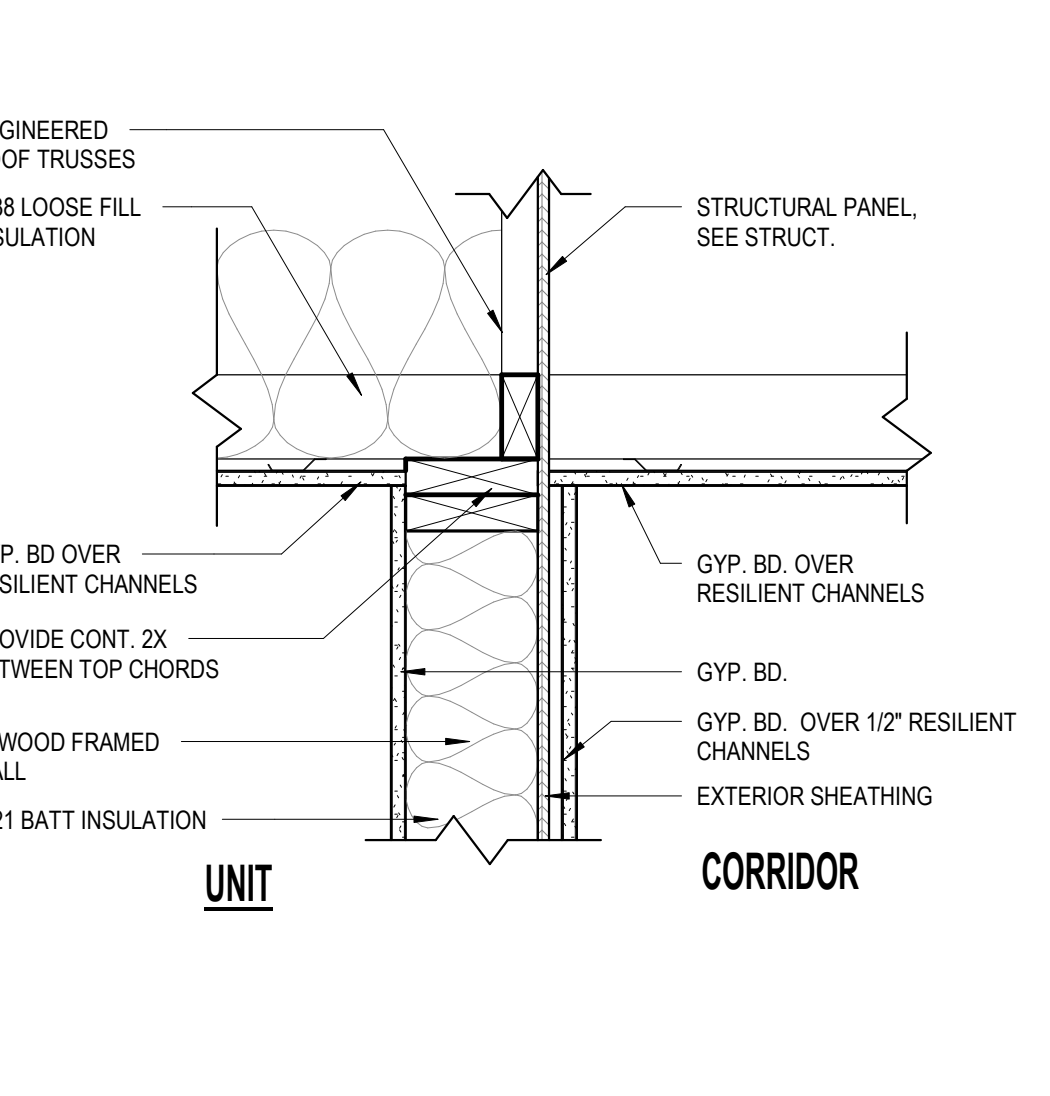
C9 CORRIDOR AT UPPER LEVEL
1 1/2" = 1'-0"



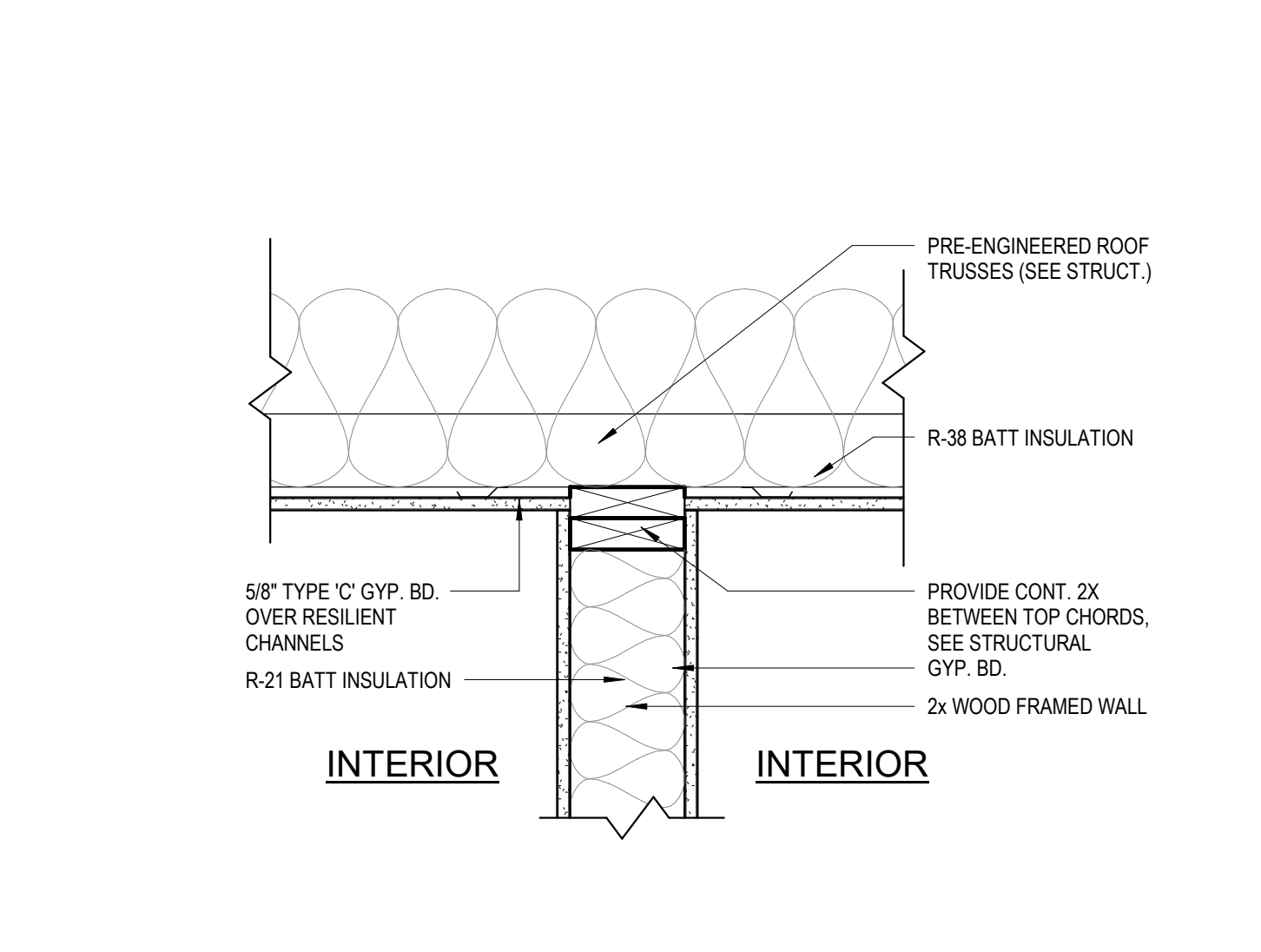
C11 WALL SECTION - BRICK @ CAP SHADOW BOX
1 1/2" = 1'-0"



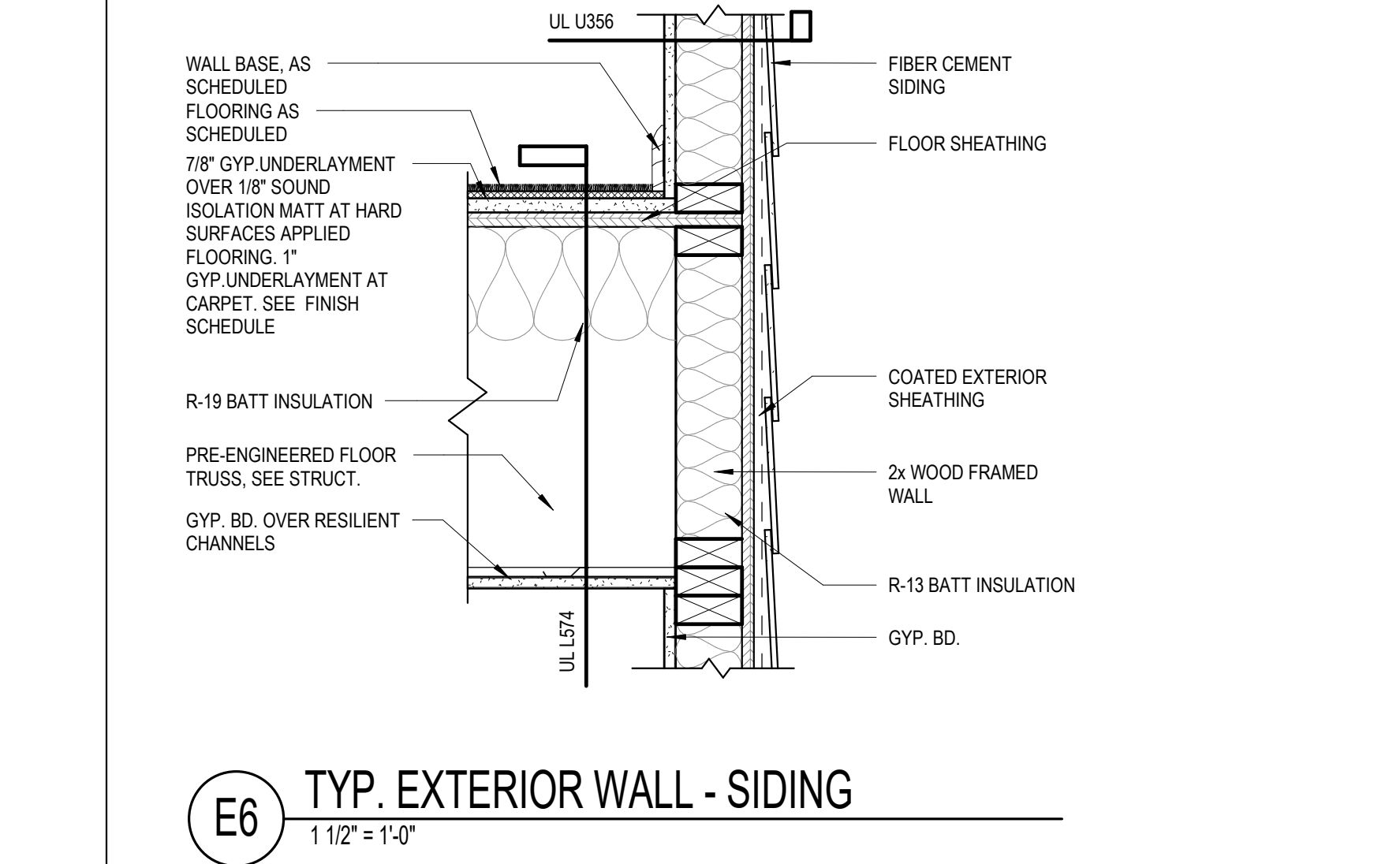
E1 PARTY WALL AT UPPER LEVELS
1 1/2" = 1'-0"



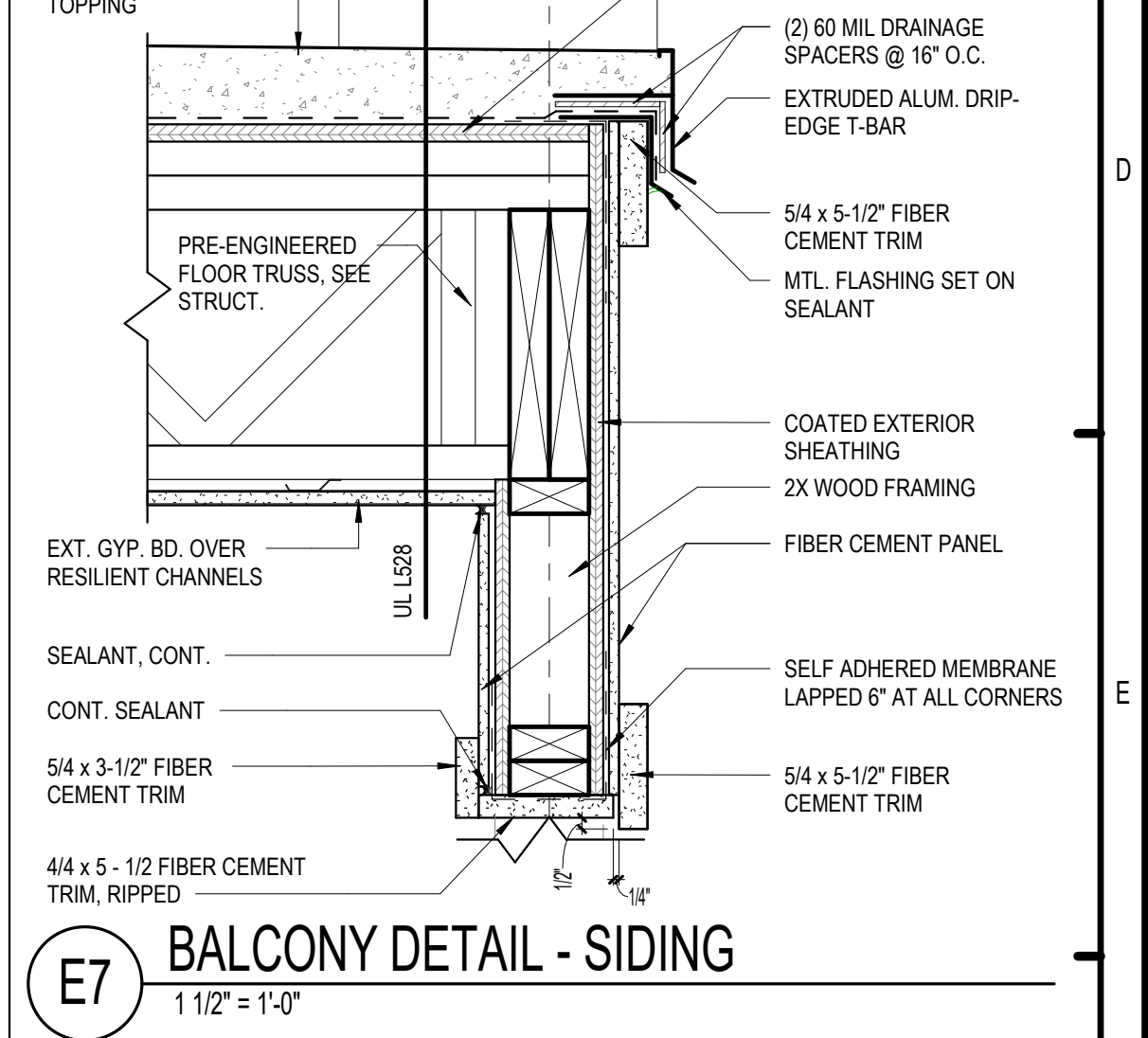
E3 CORRIDOR AT ROOF - SHEARWALL
1 1/2" = 1'-0"



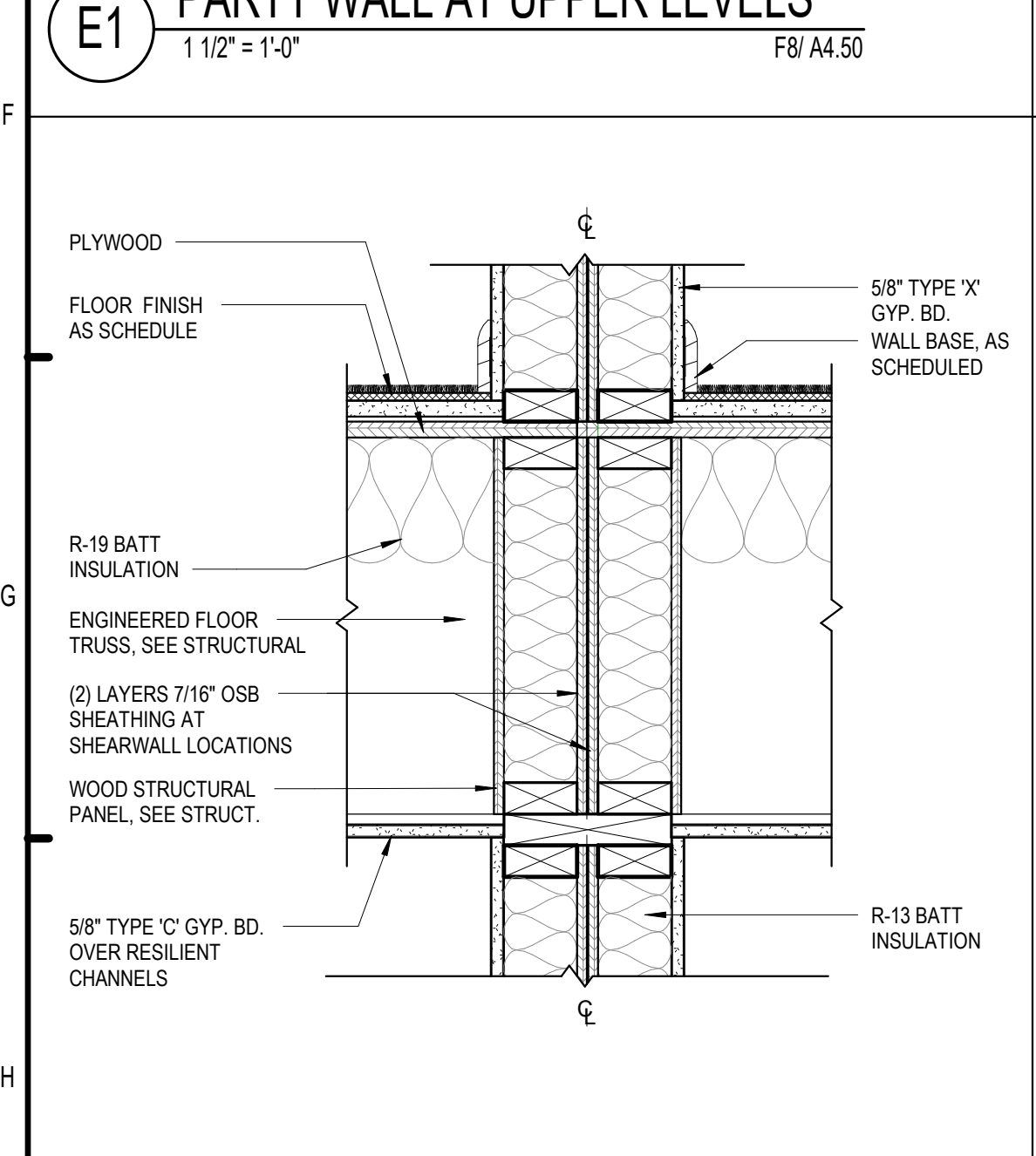
E5 UNIT WALL AT ROOF
1 1/2" = 1'-0"



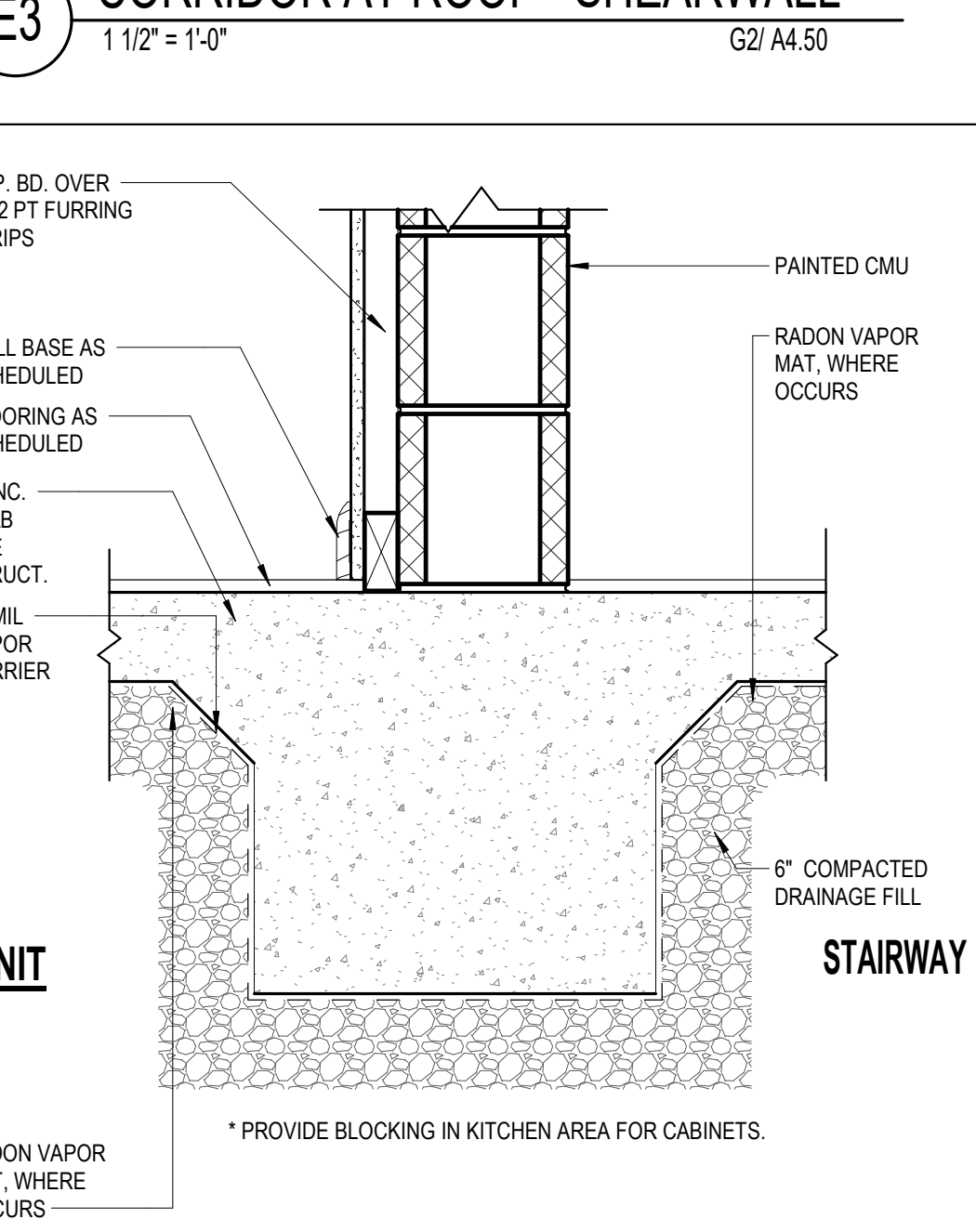
E6 TYP. EXTERIOR WALL - SIDING
1 1/2" = 1'-0"



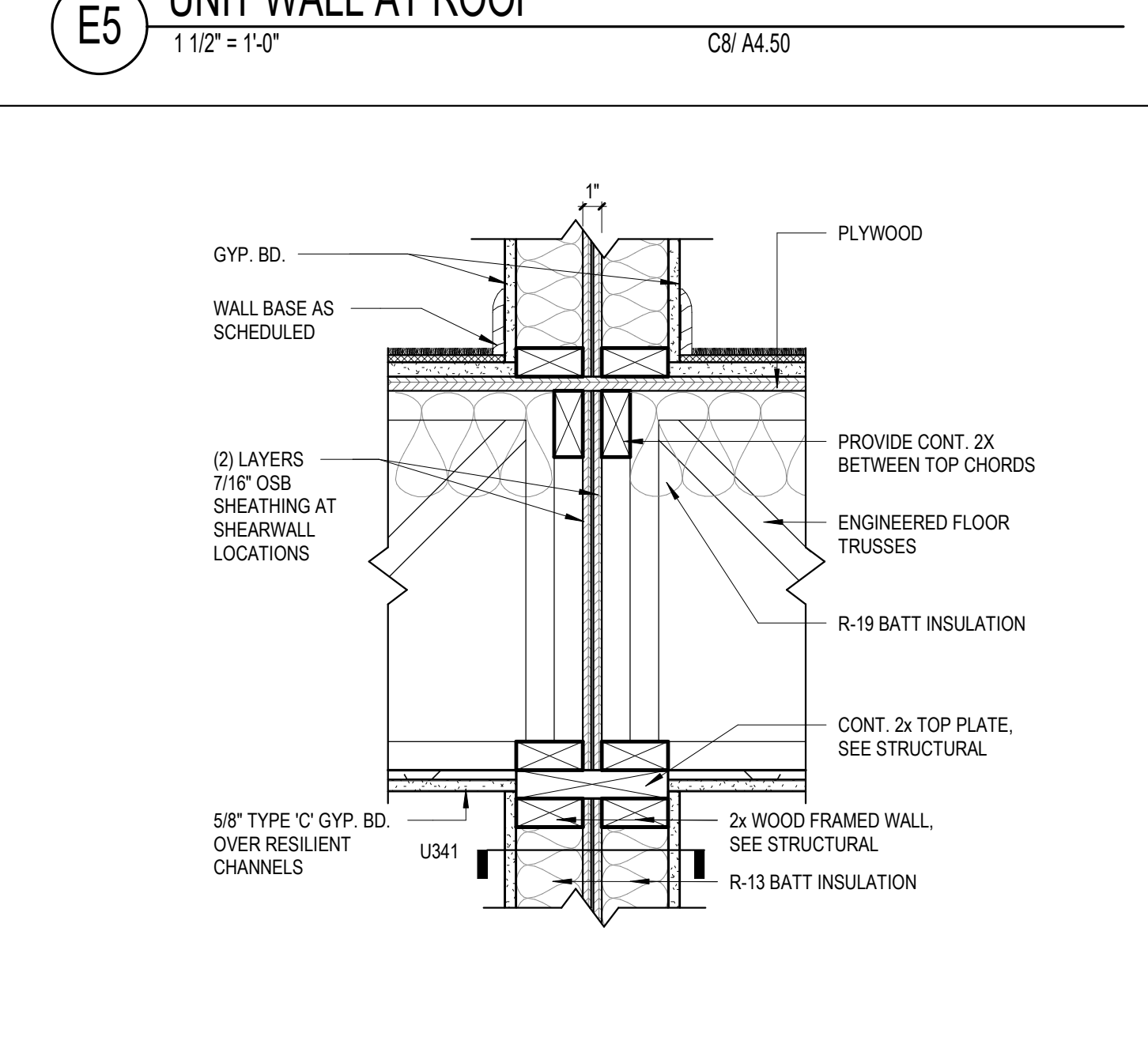
E7 BALCONY DETAIL - SIDING
1 1/2" = 1'-0"



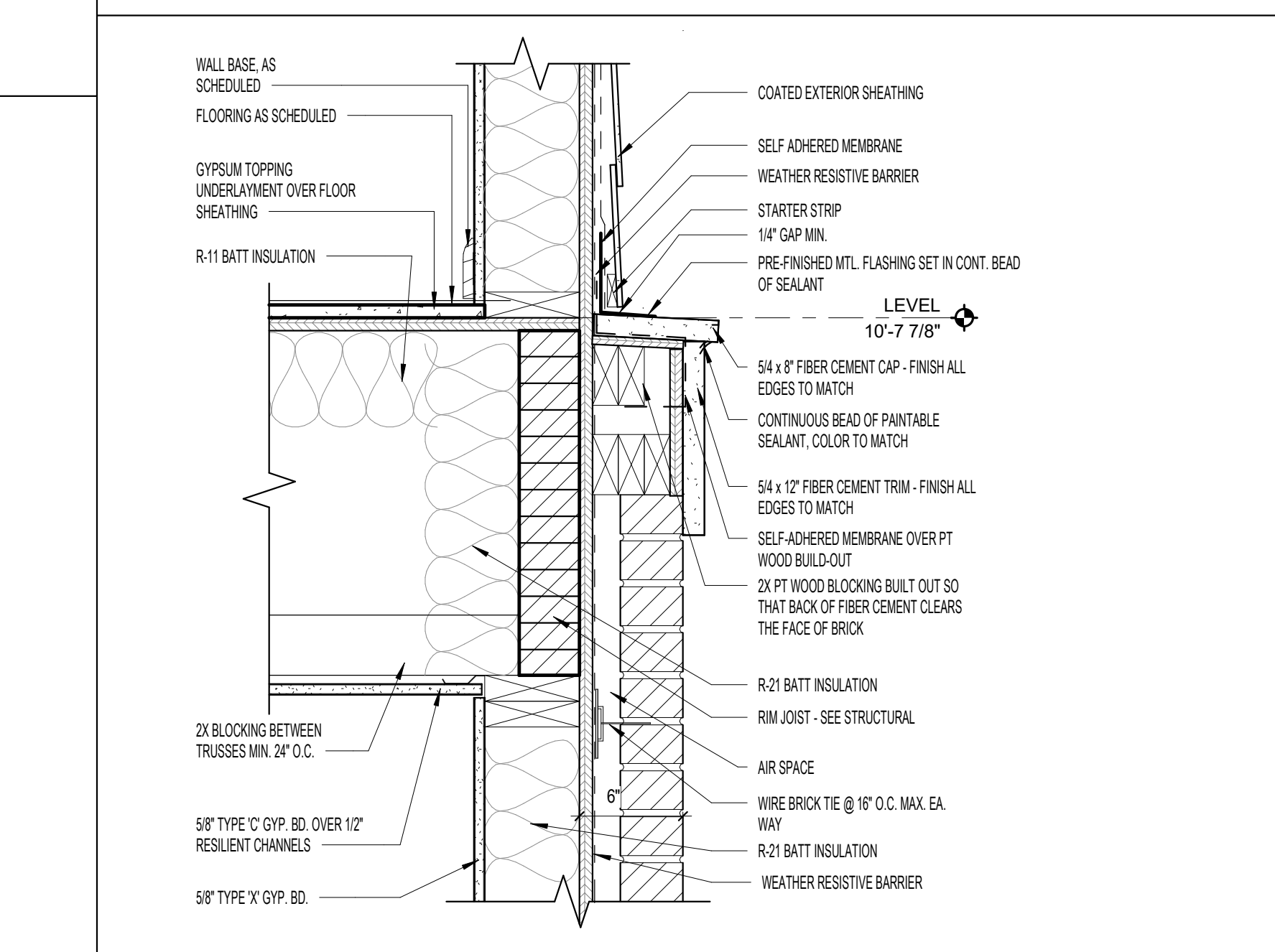
H1 PARTY WALL AT UPPER LEVELS
1 1/2" = 1'-0"



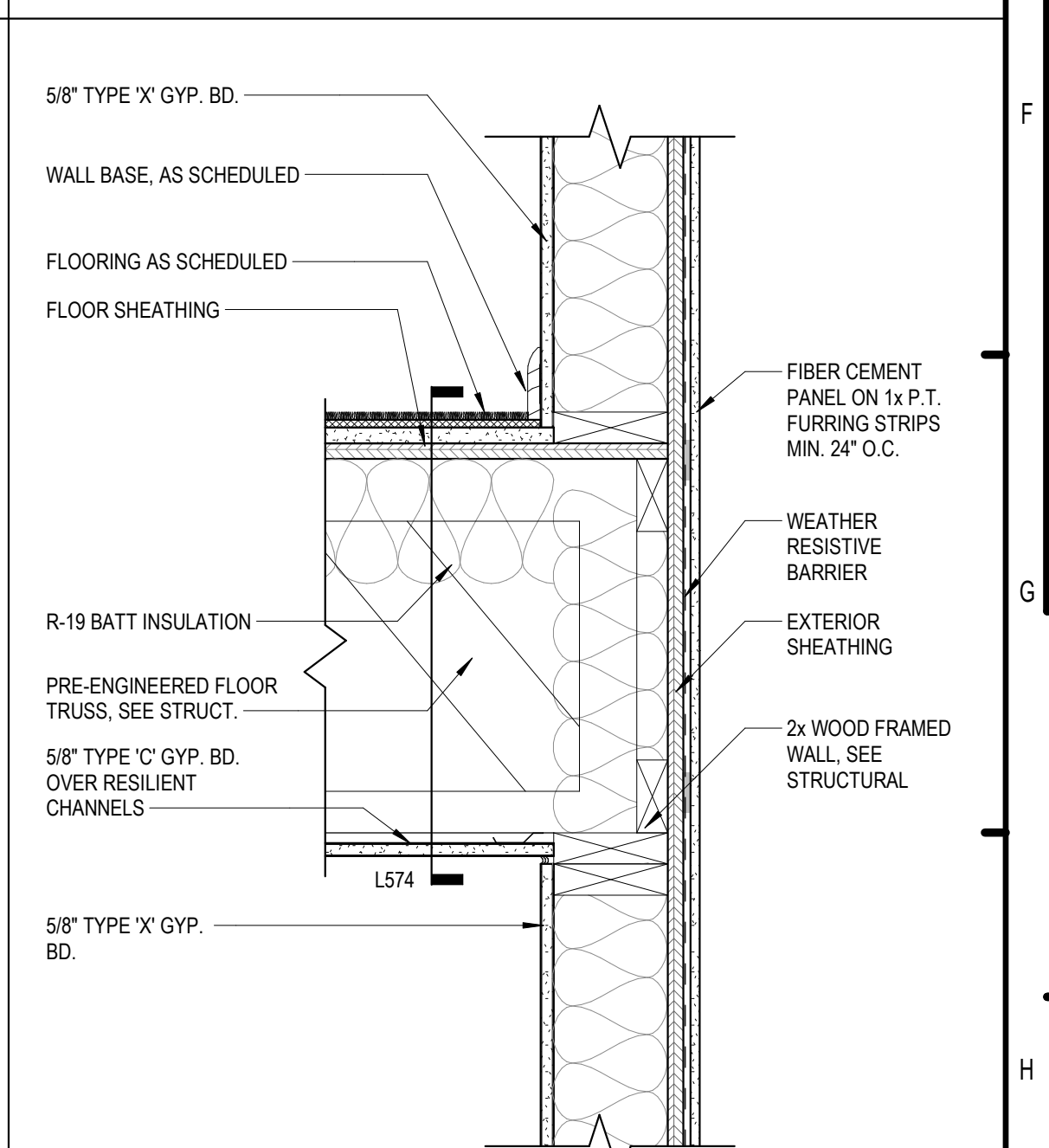
H2 BREEZEWAY AT FOUNDATION
1 1/2" = 1'-0"



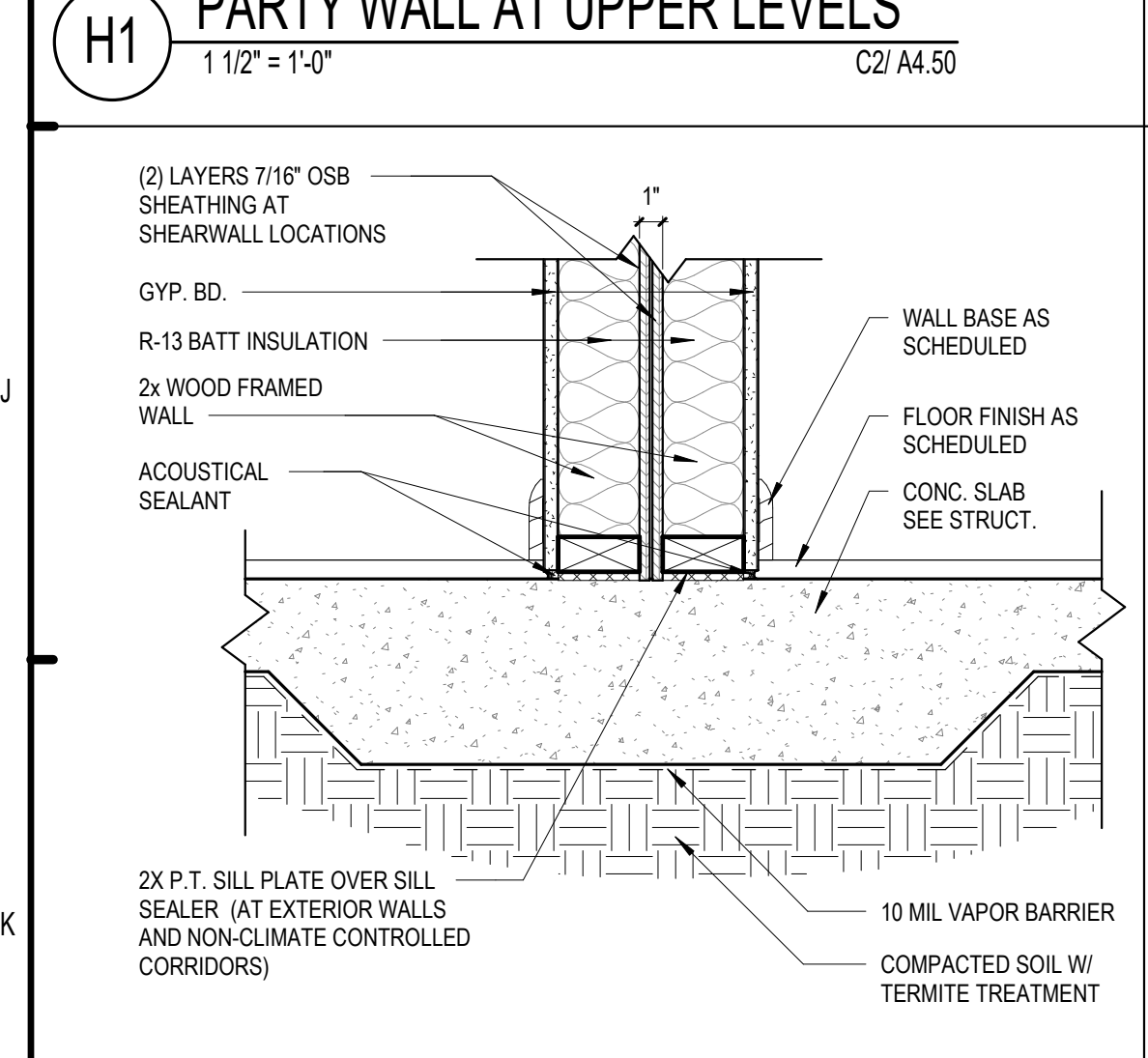
H5 PARTY WALL AT UPPER LEVELS
1 1/2" = 1'-0"



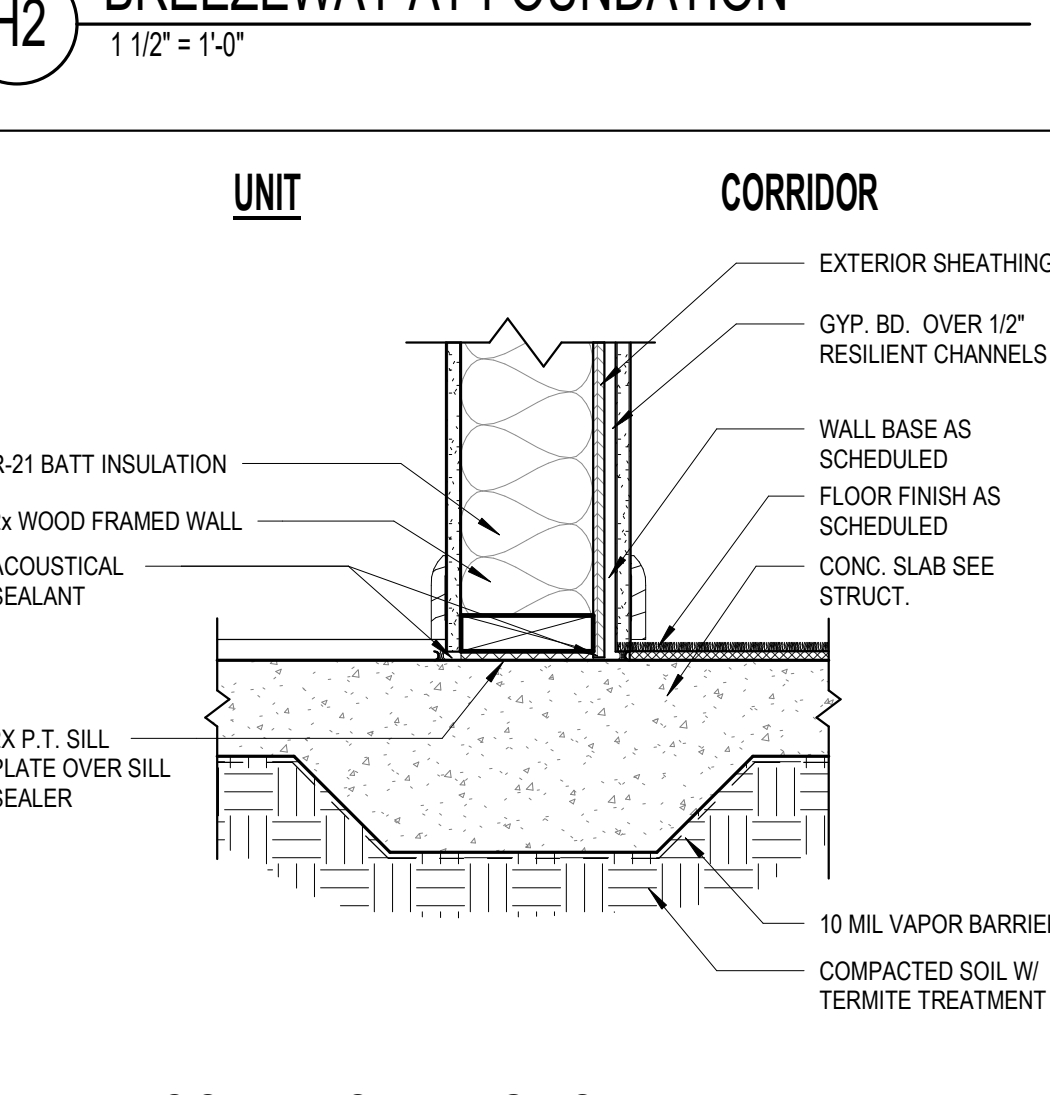
H6 WALL SECTION - BRICK @ CAP
1 1/2" = 1'-0"



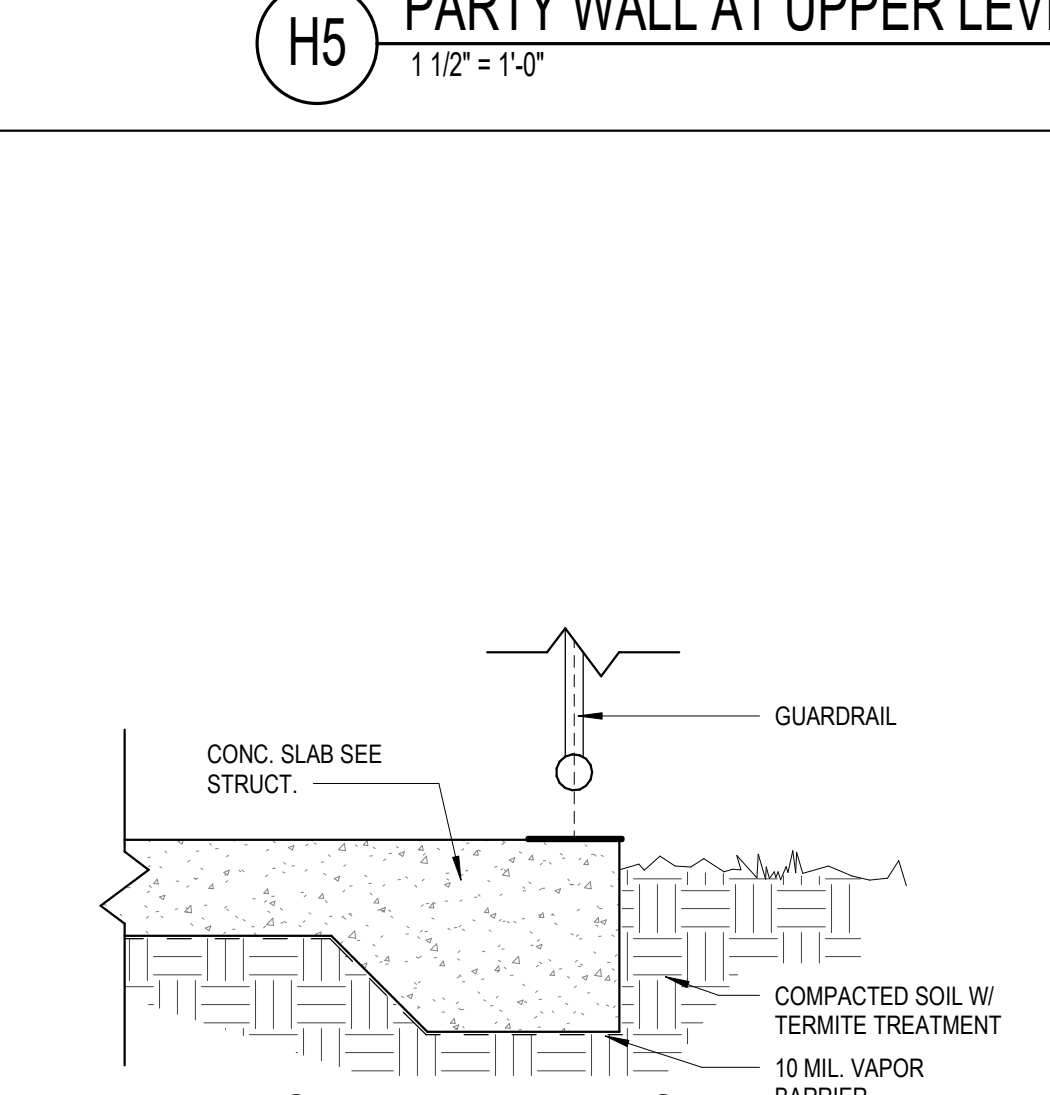
H11 TYP. EXTERIOR WALL - PANEL
1 1/2" = 1'-0"



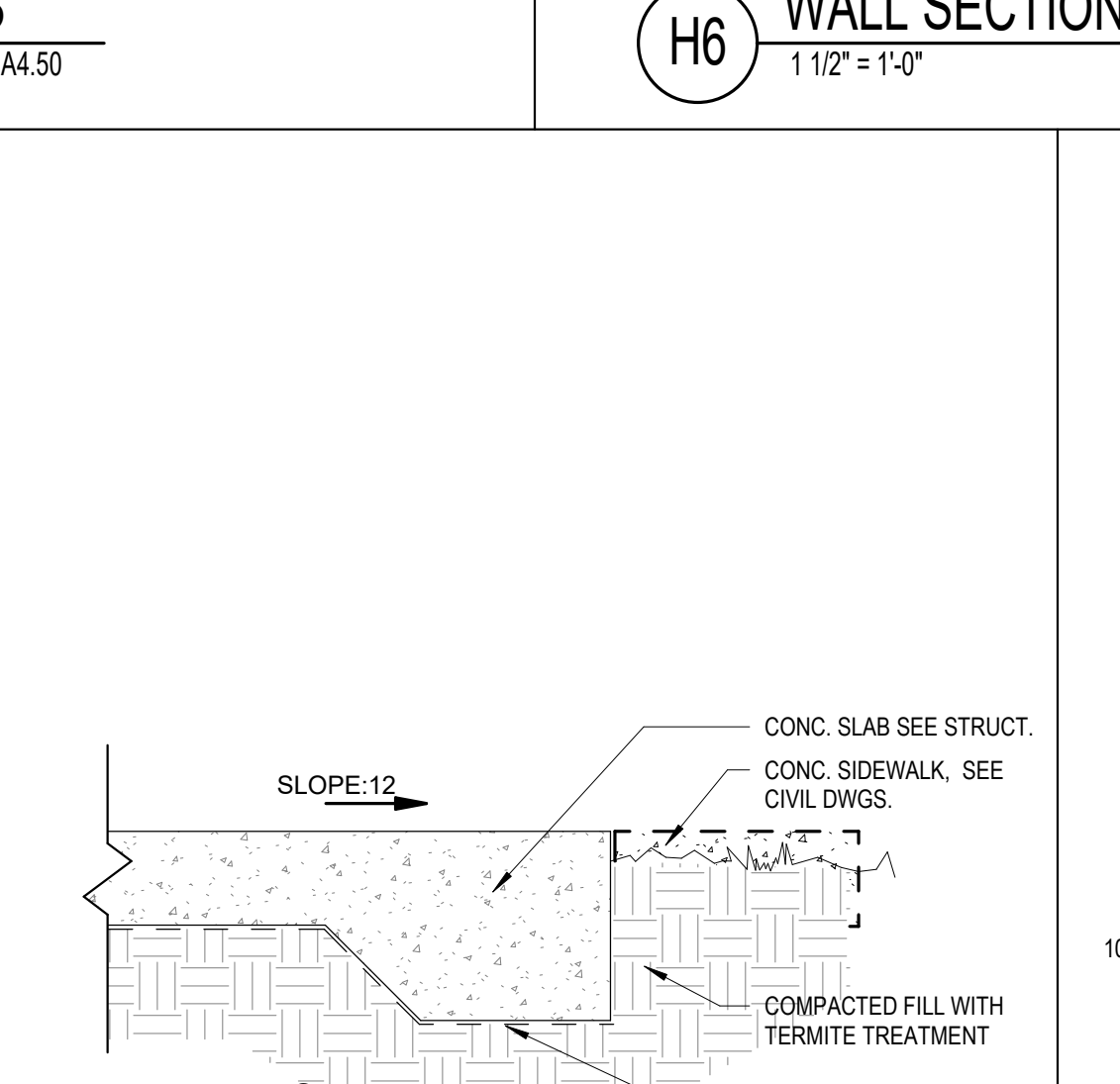
K1 PARTY WALL AT FND
1 1/2" = 1'-0"



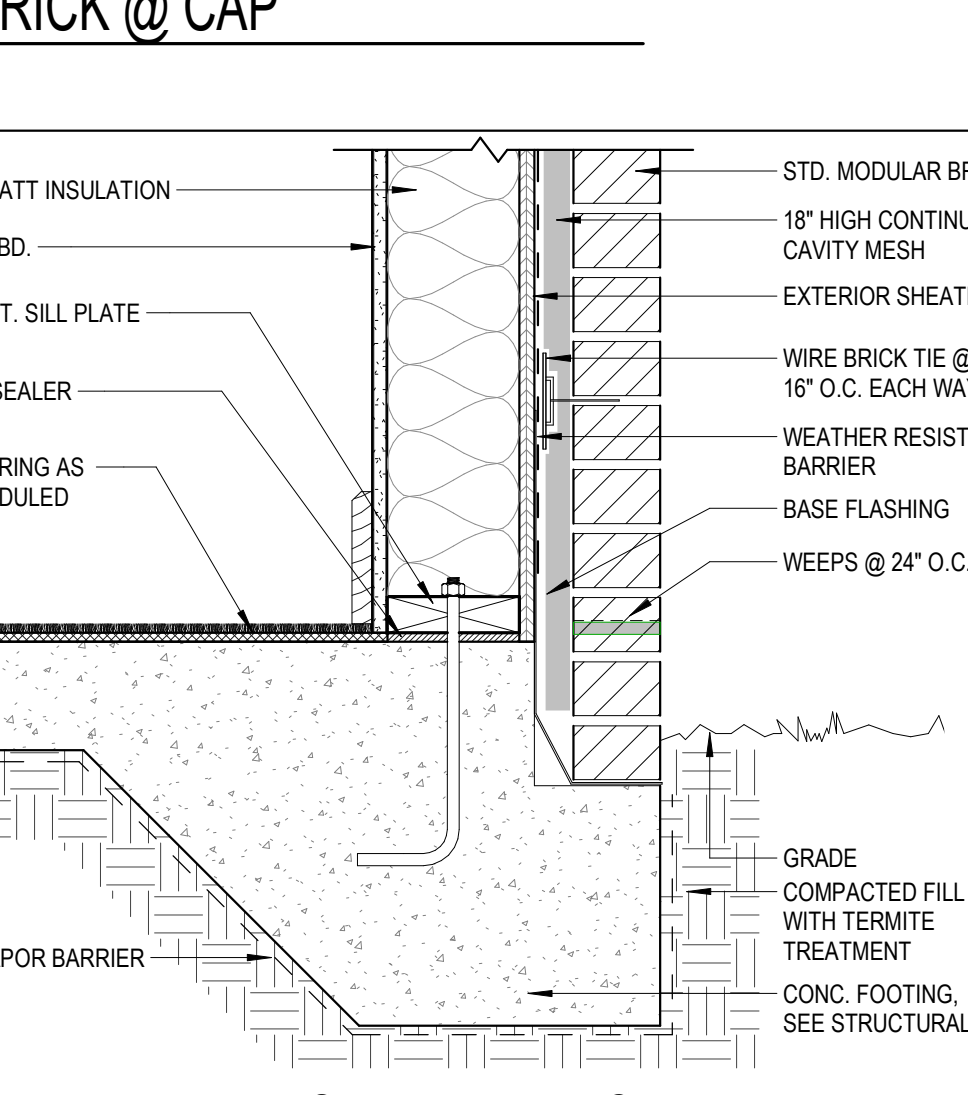
K3 CORRIDOR AT GROUND LEVEL
1 1/2" = 1'-0"



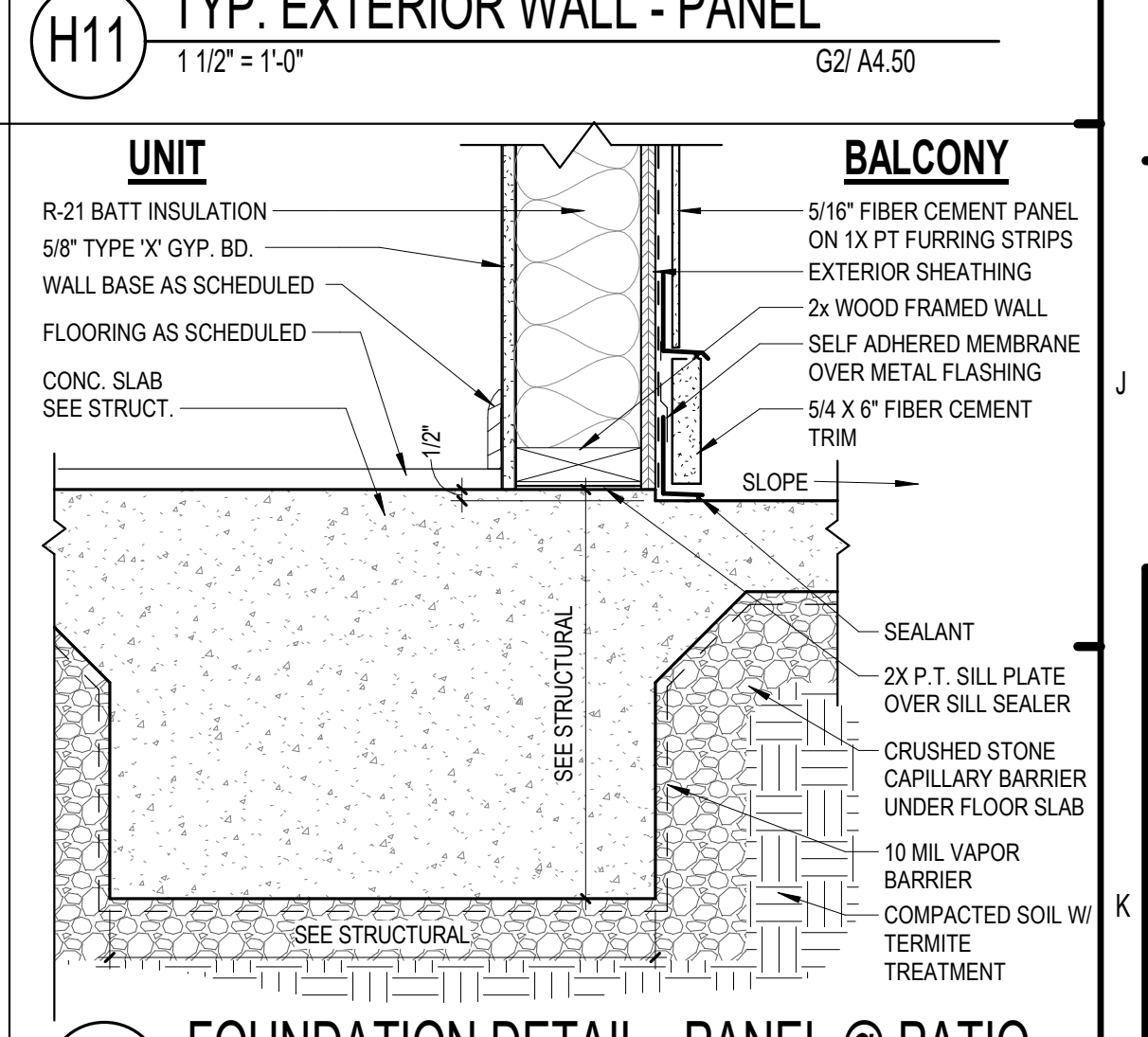
K5 EXTERIOR FDN AT PATIO
1 1/2" = 1'-0"



K7 EXTERIOR FDN
1 1/2" = 1'-0"



K9 TYP. EXTERIOR FND - BRICK
1 1/2" = 1'-0"



K10 FOUNDATION DETAIL - PANEL @ PATIO
1 1/2" = 1'-0"

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REGISTERED ARCHITECT

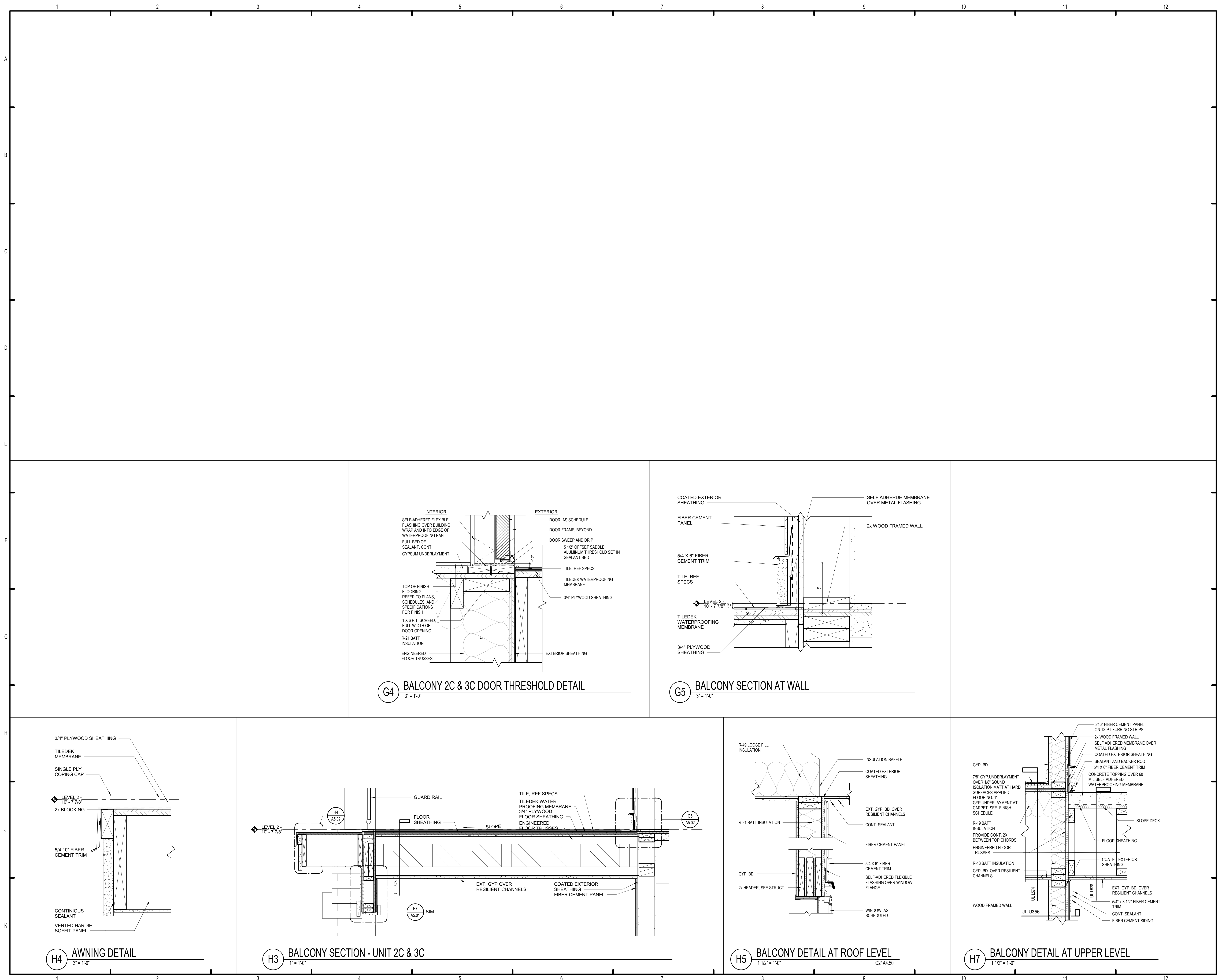
MICHAEL GOVE
SDM

THE ROBERT MADISON	Drawn: MB
MADISON, ALABAMA	Checked: JK
	Approval: MS
	Date: 04/15/2022
	Project #: 572

WALL SECTION DETAILS

A5.01

PLOTTED: 03/30/22 3:57:12 PM



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MICHAEL GOVE
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MICHAEL GOVE
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THE ROBERT MADISON	Drawn: MS
MADISON, ALABAMA	Checked: JK
	Approval: MS
	Date: 04/15/2022
	Project #: 5722

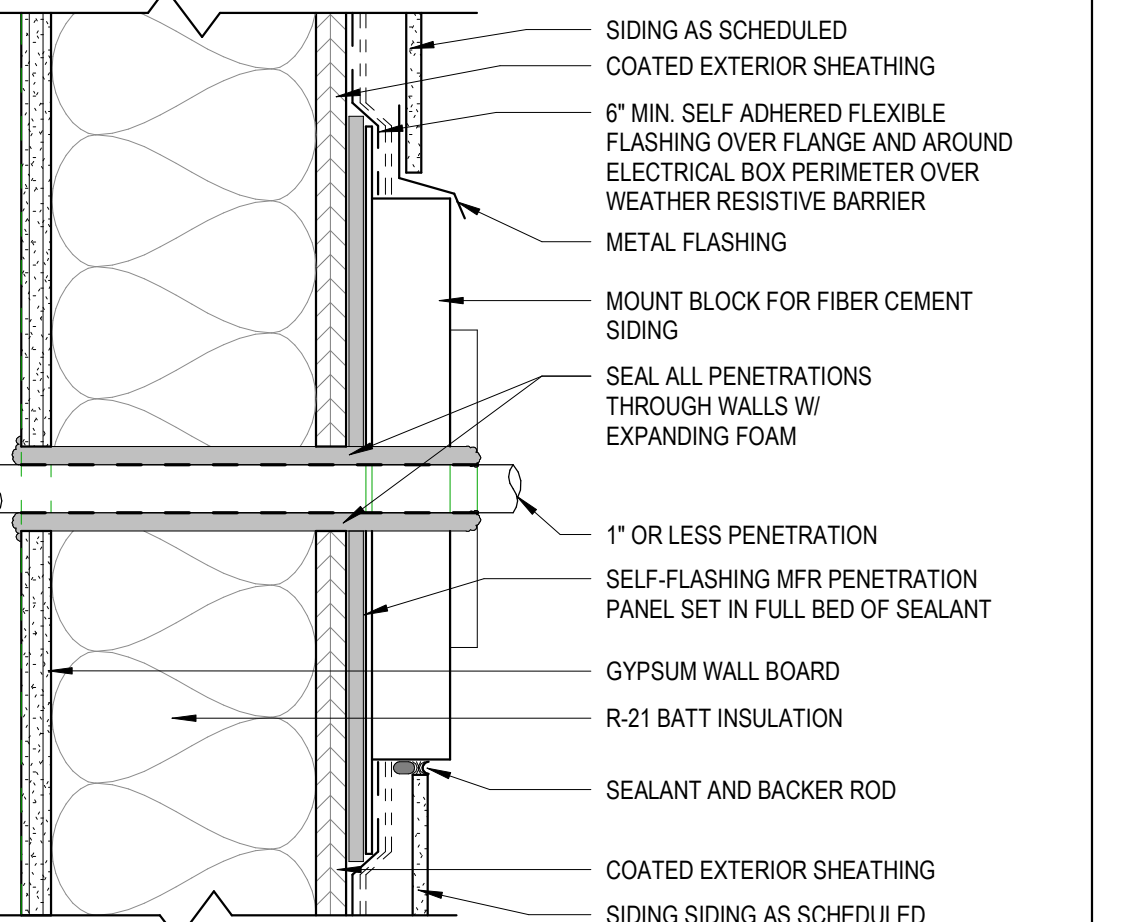
WALL SECTION DETAILS

A5.02

B3 ATTIC ACCESS DETAIL
1 1/2" = 1'-0"



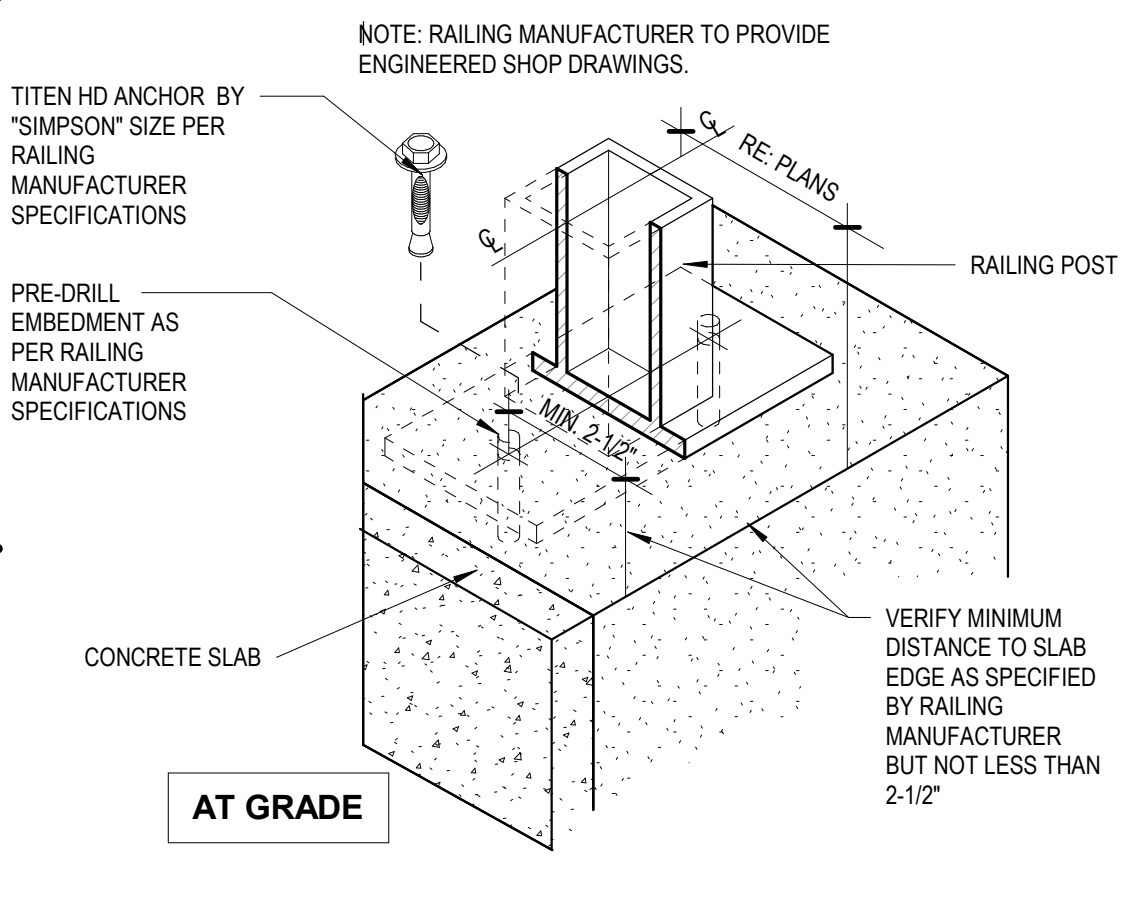
B5 LIGHT FIXTURE BOX DETAIL
3" = 1'-0"



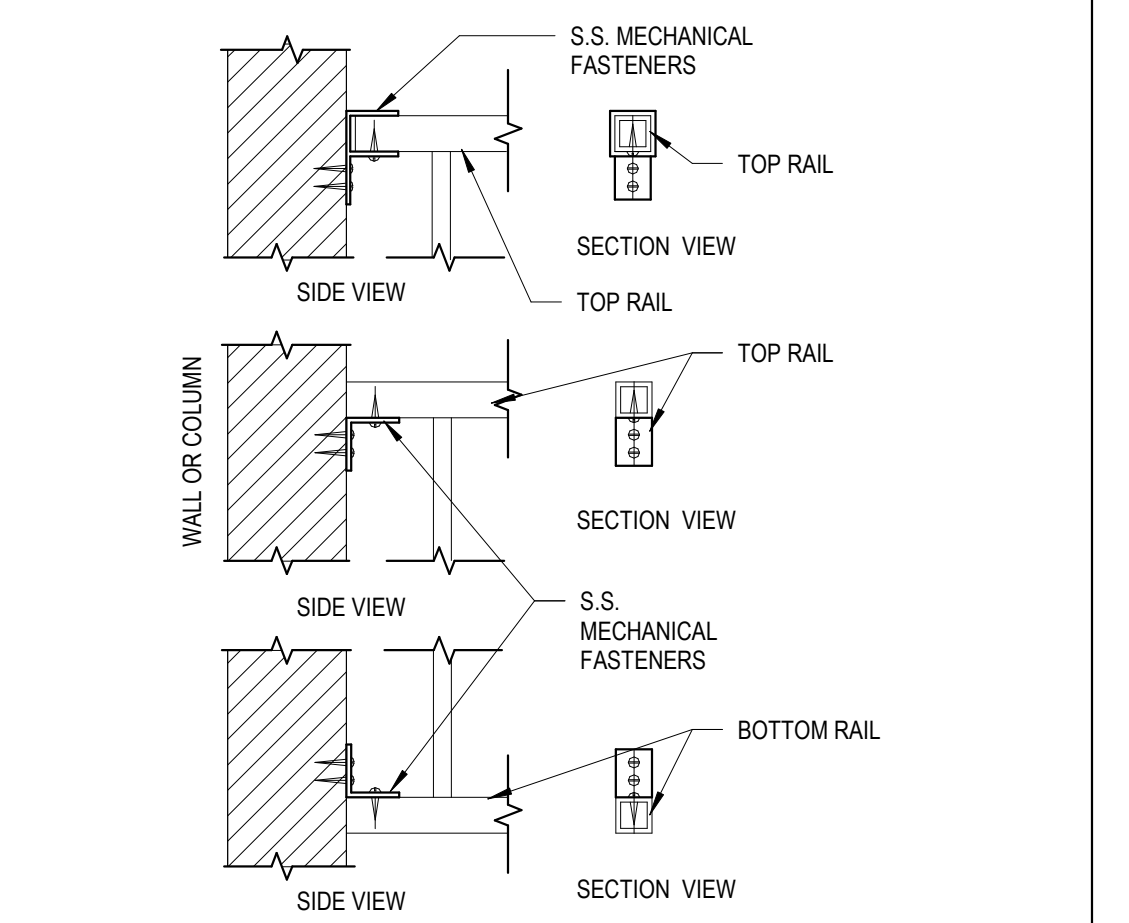
B9 CORRIDOR AT UPPER LEVEL
1 1/2" = 1'-0"



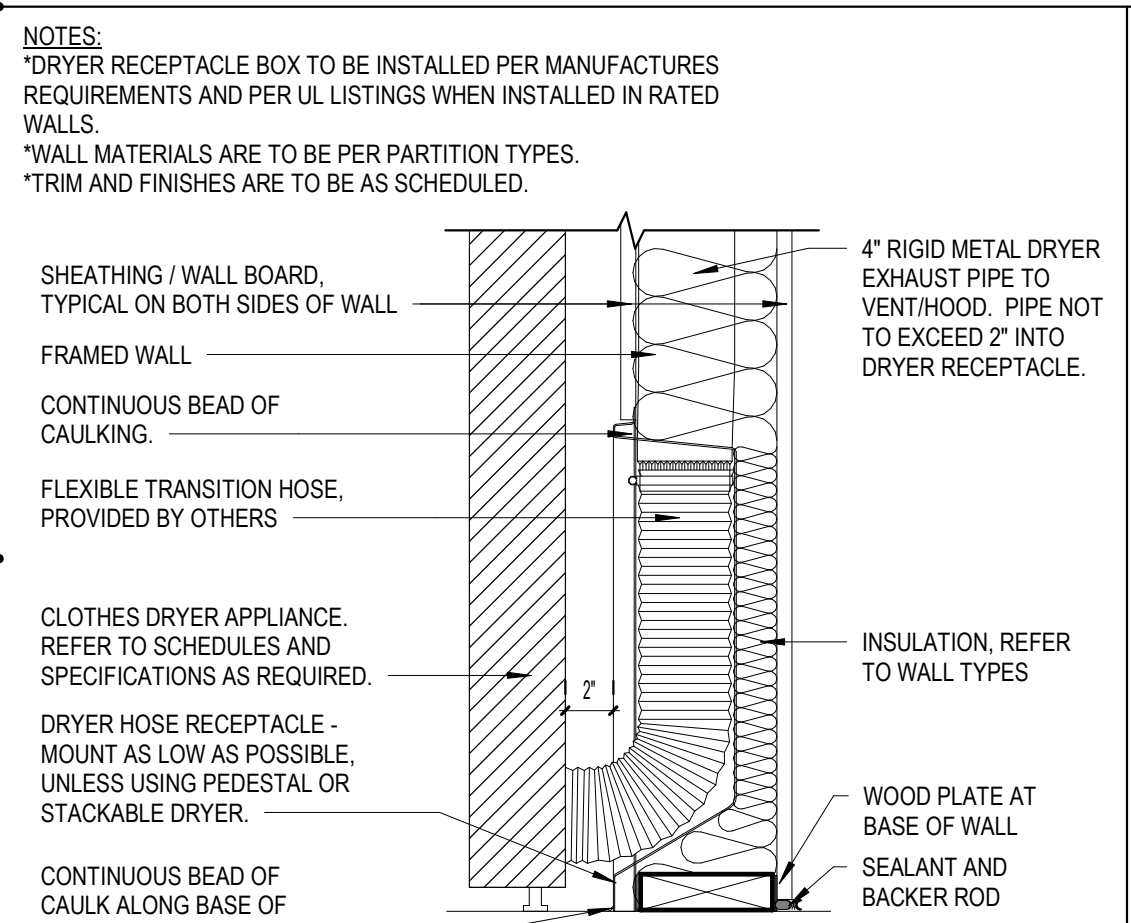
D1 EXHAUST PENETRATION (SIDING)
3" = 1'-0"



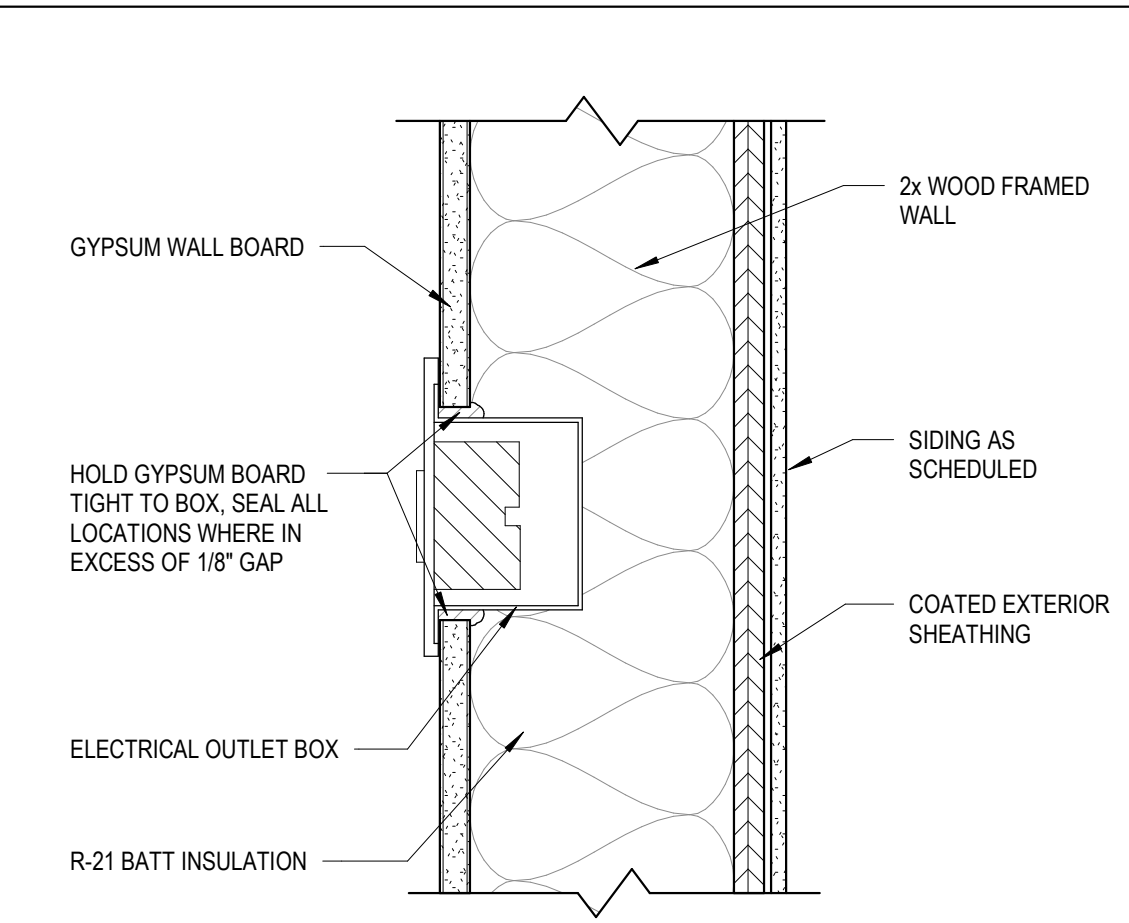
D5 PIPE PENETRATION DETAIL (SIDING)
3" = 1'-0"



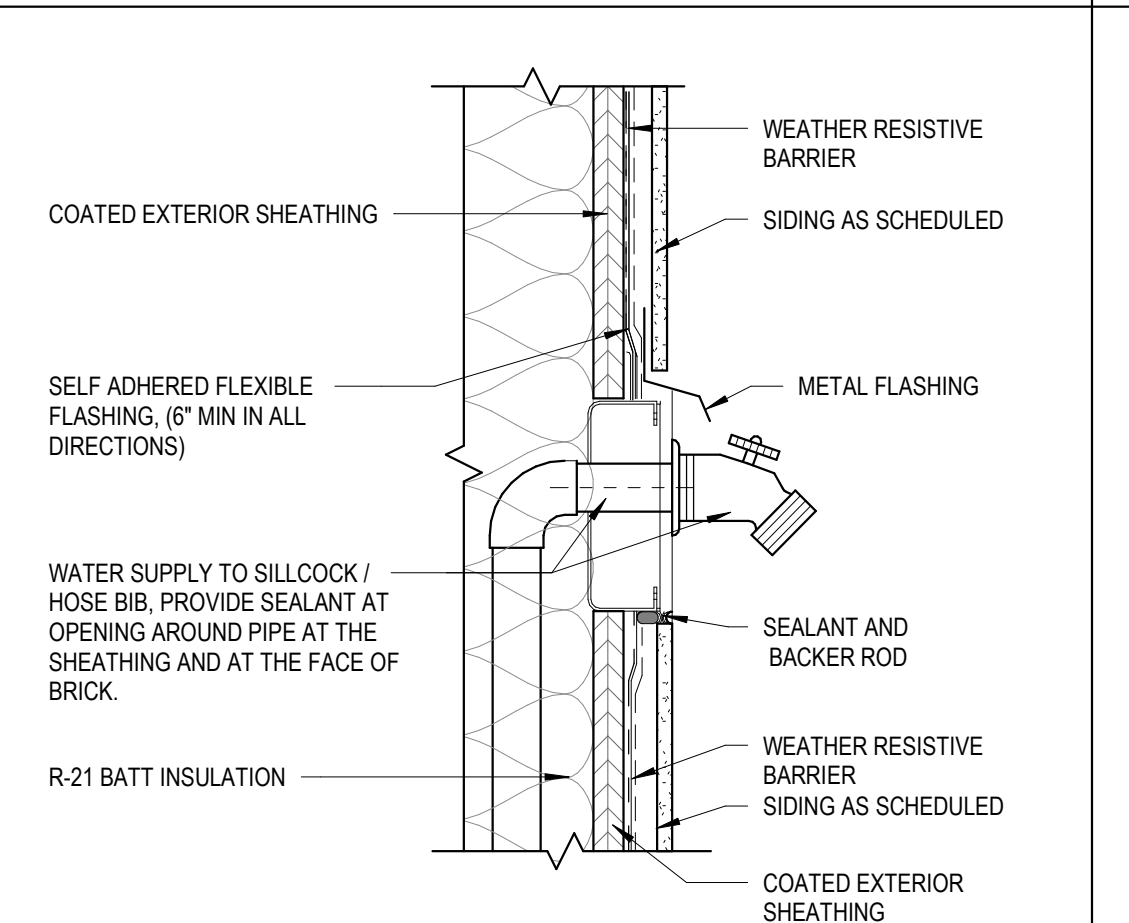
F1 RAILING ATTACHEMENT DETAIL (AXO)
3" = 1'-0"



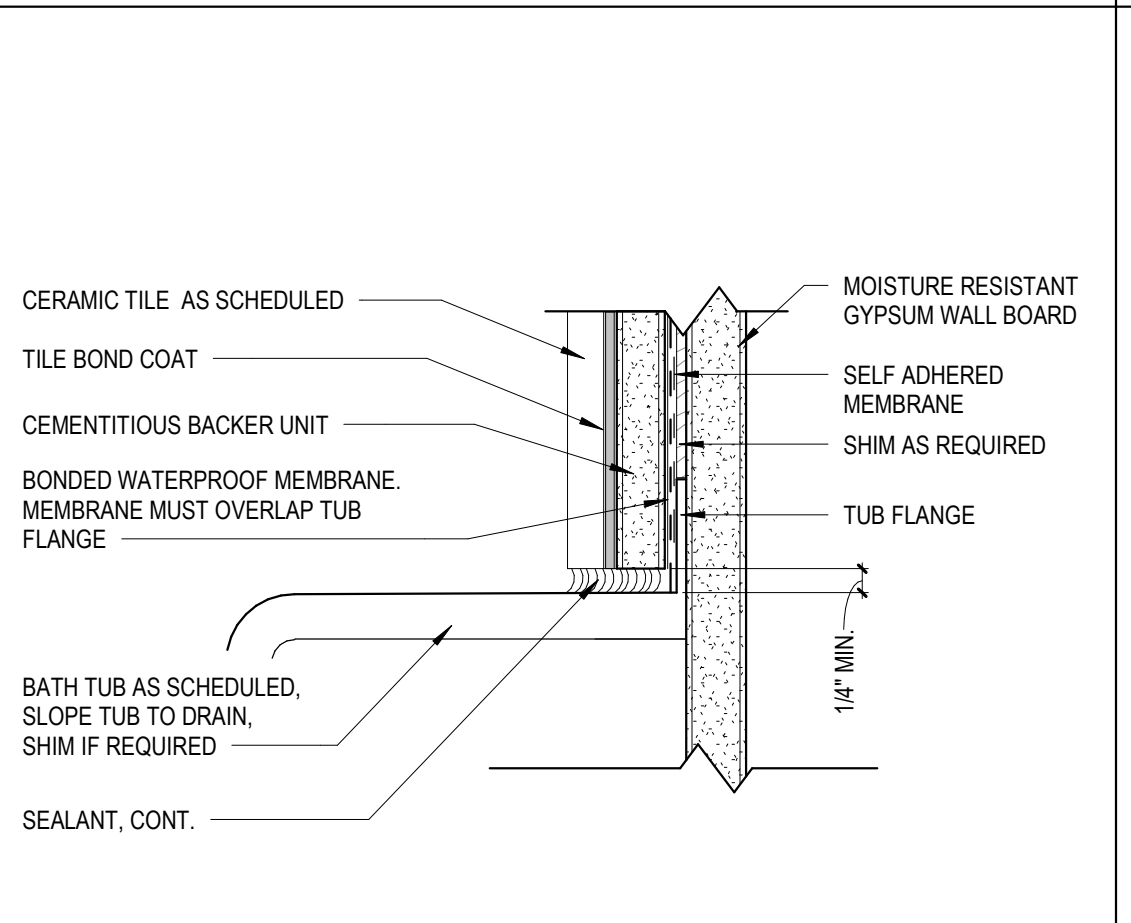
F1 RAILING ATTACHEMENT DETAIL (AXO)
3" = 1'-0"



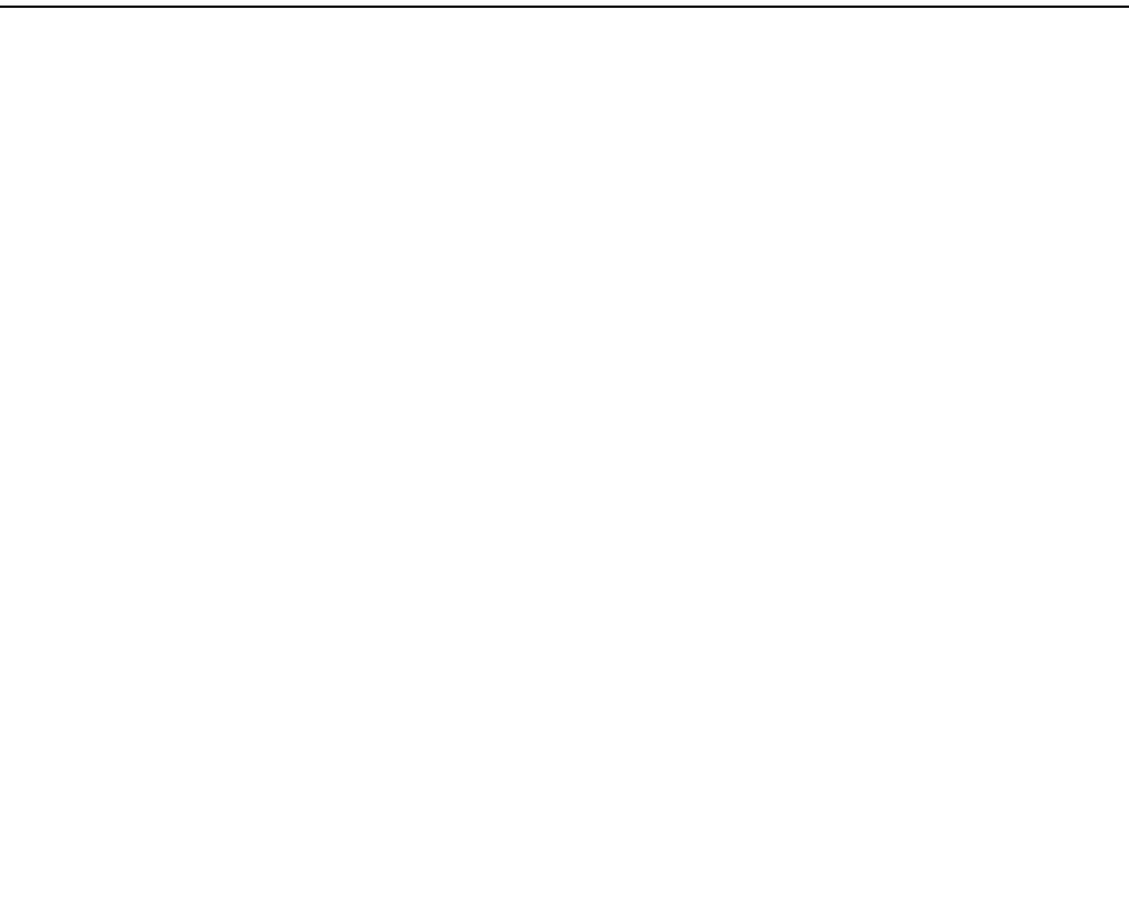
F5 RAILING ATTACHEMENT DETAIL
1 1/2" = 1'-0"



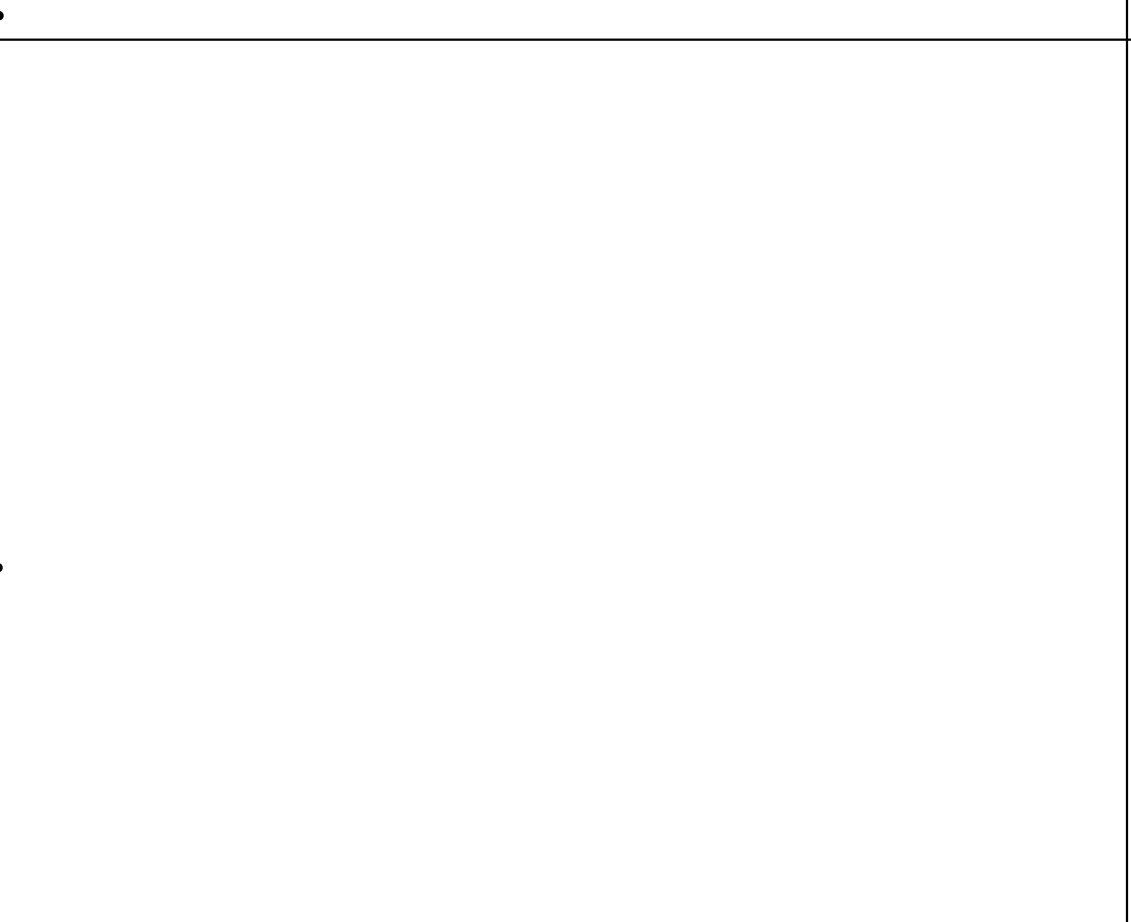
F7 VINYL GUARDRAIL DETAIL
1 1/2" = 1'-0"



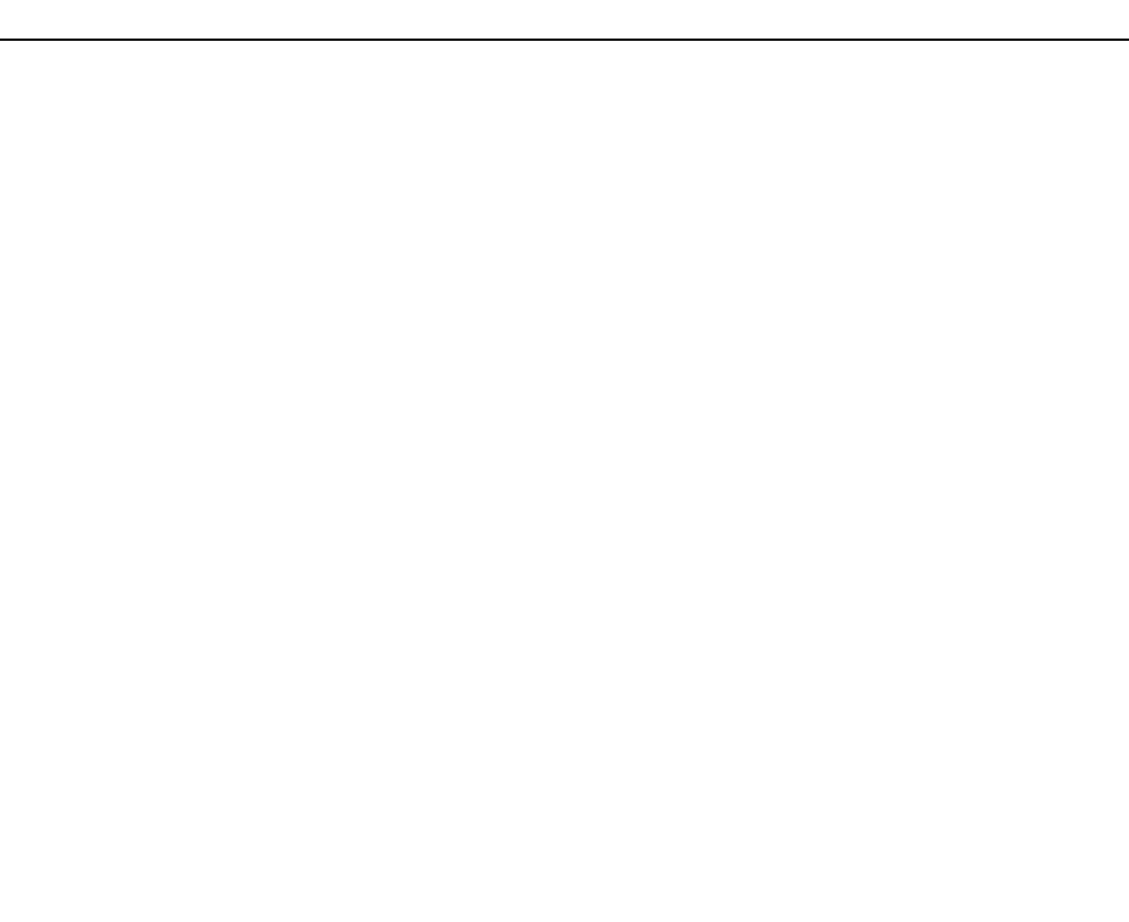
F9 BOLLARD DETAIL
1" = 1'-0"



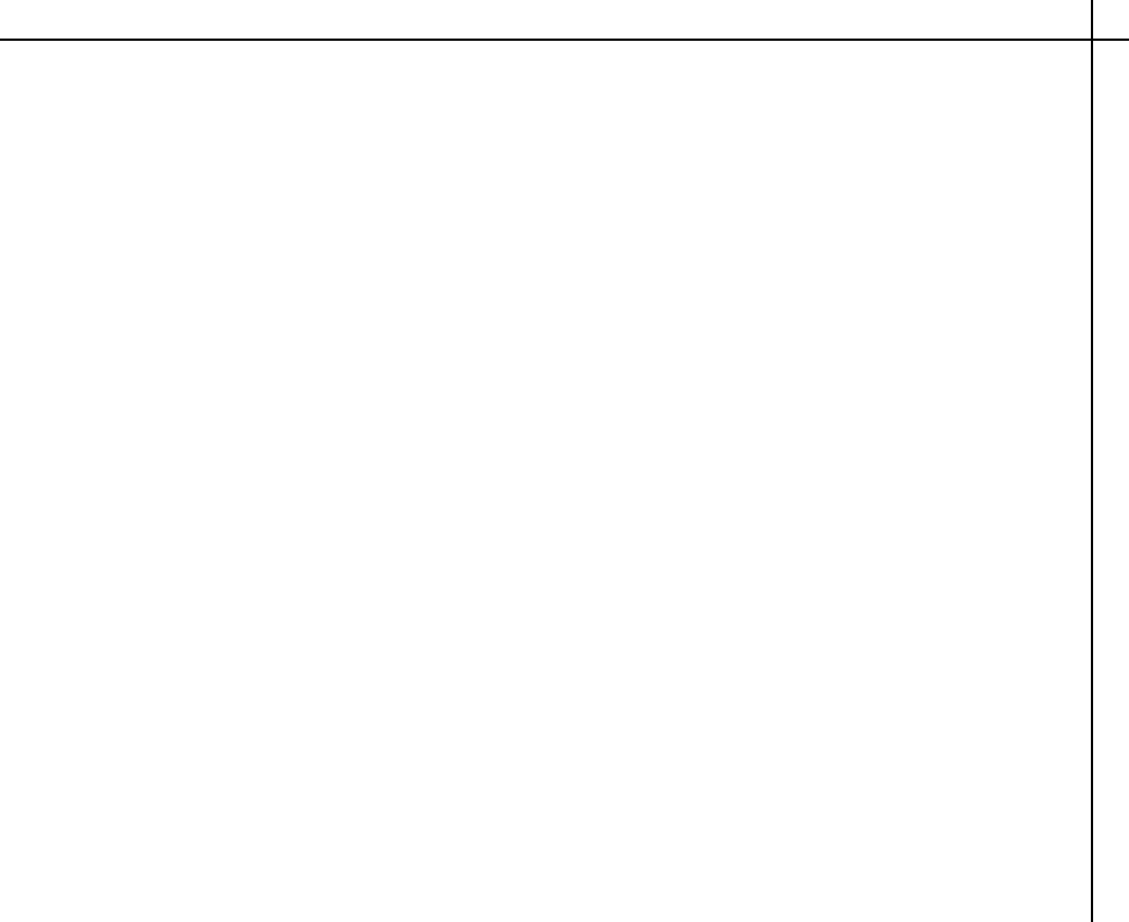
H1 DRYER HOSE RECEPTACLE
1 1/2" = 1'-0"



H3 OUTLET BOX DETAIL
3" = 1'-0"



H5 HOSE BIB DETAIL (SIDING)
3" = 1'-0"



H7 ENLARGED BATHTUB DETAIL
6" = 1'-0"



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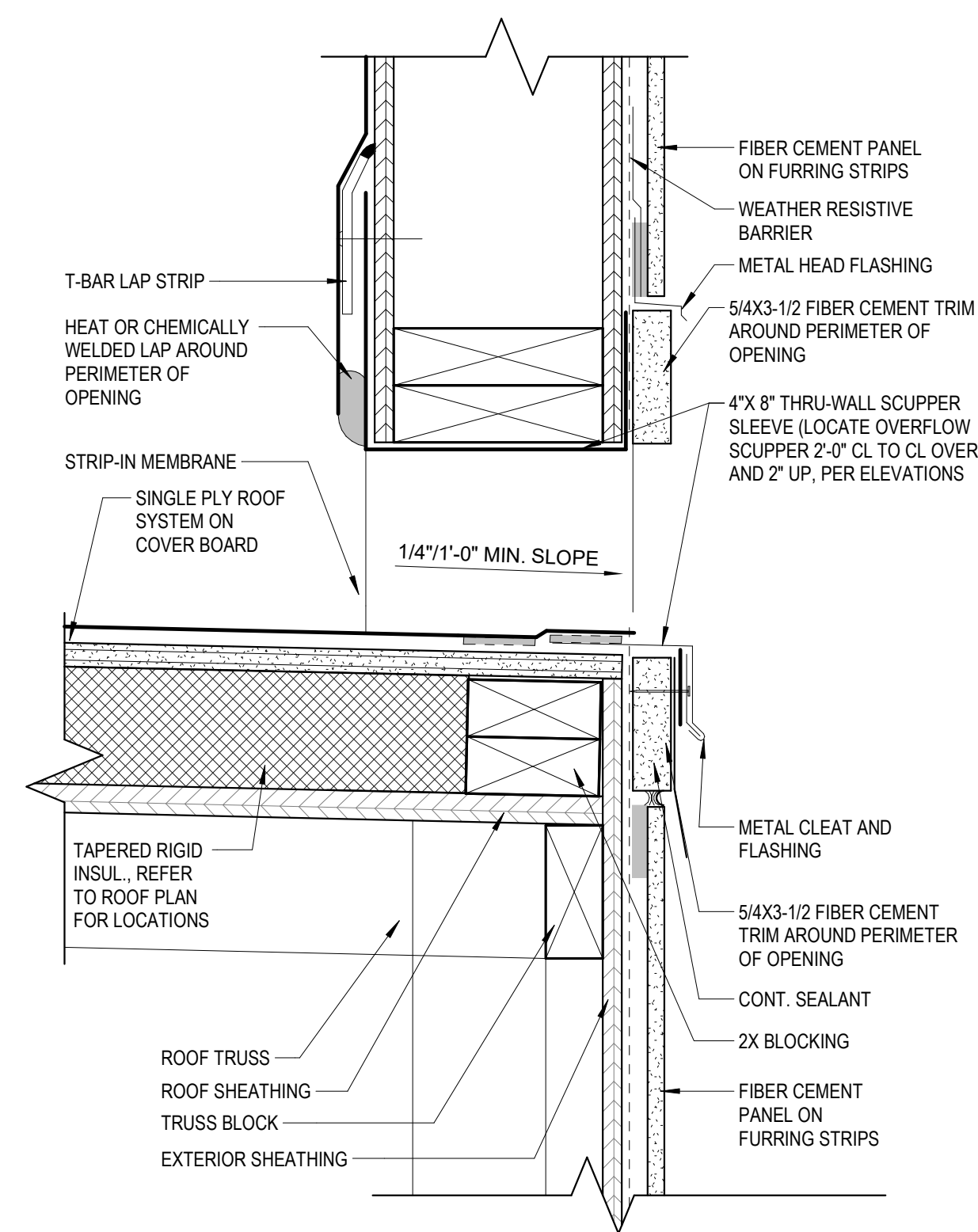
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No.	Date	Description

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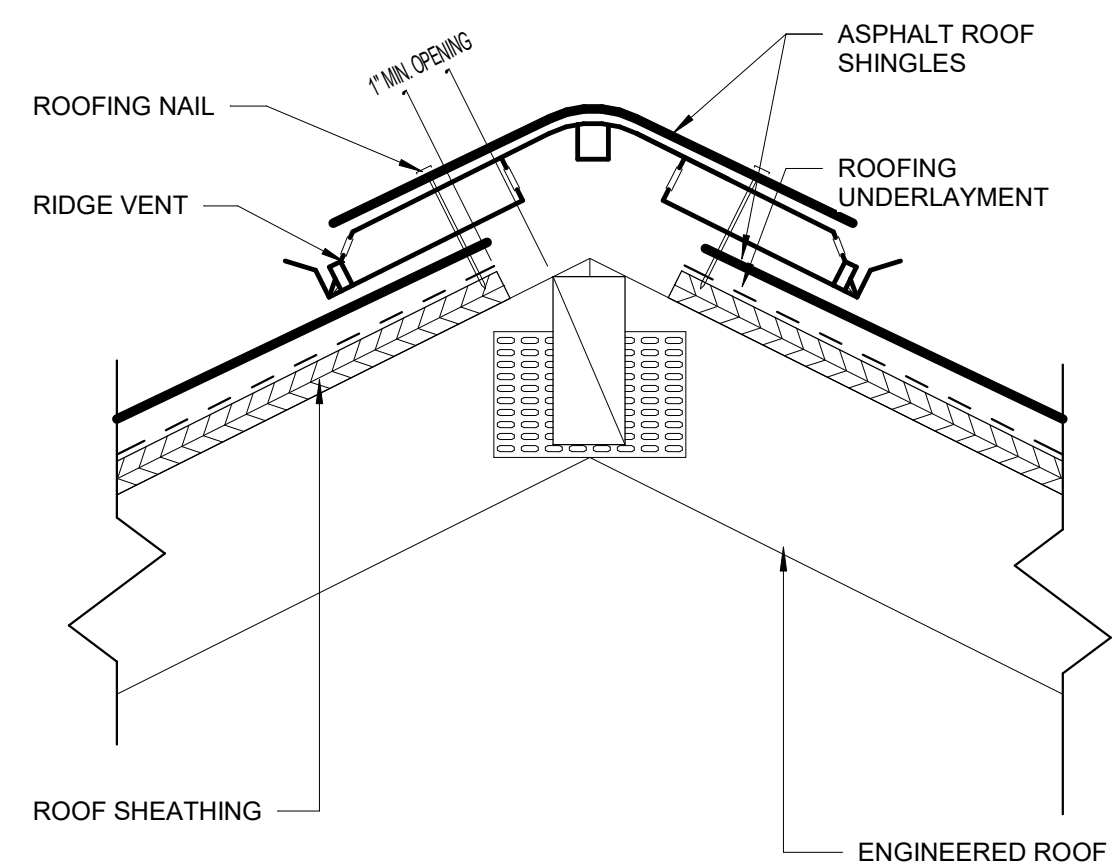
CONSULTANT
STATE OF ALABAMA
8234
4/15/22
REGISTERED ARCHITECT

THE ROBERT MADISON	Drawn: MS
MADISON, ALABAMA	Checked: JK
	Approval: MS
	Date: 04/15/2022
	Project #: 572

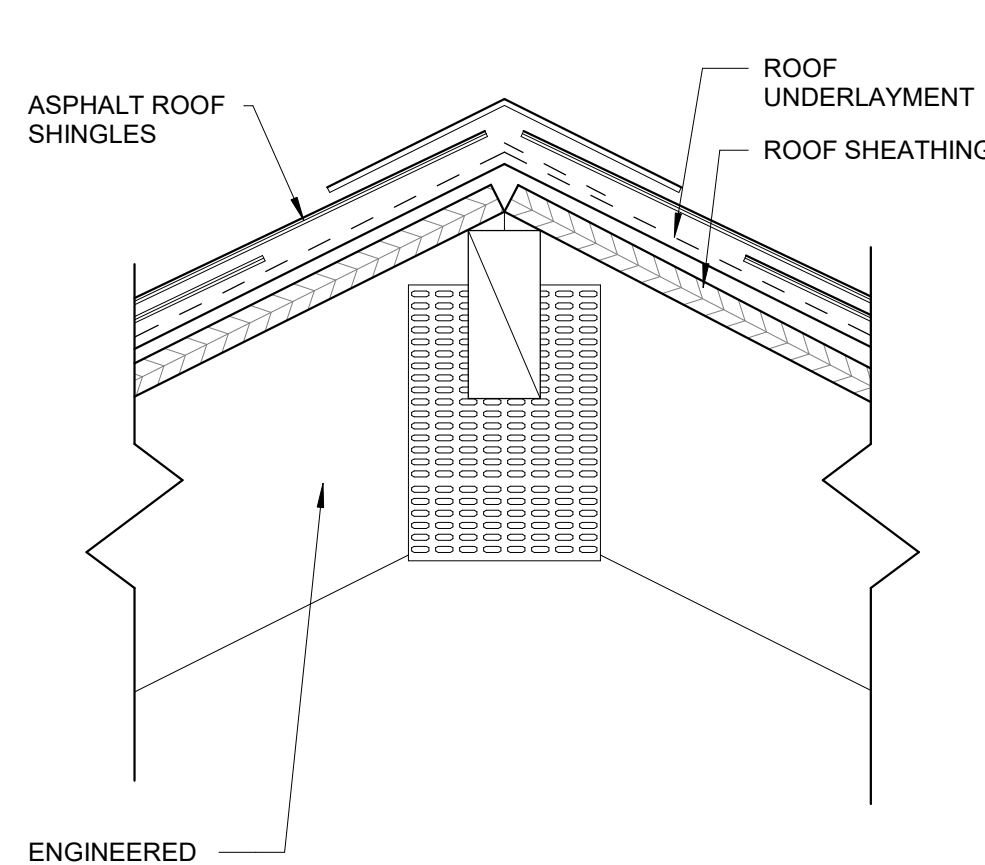
WALL SECTION DETAILS
A5.03



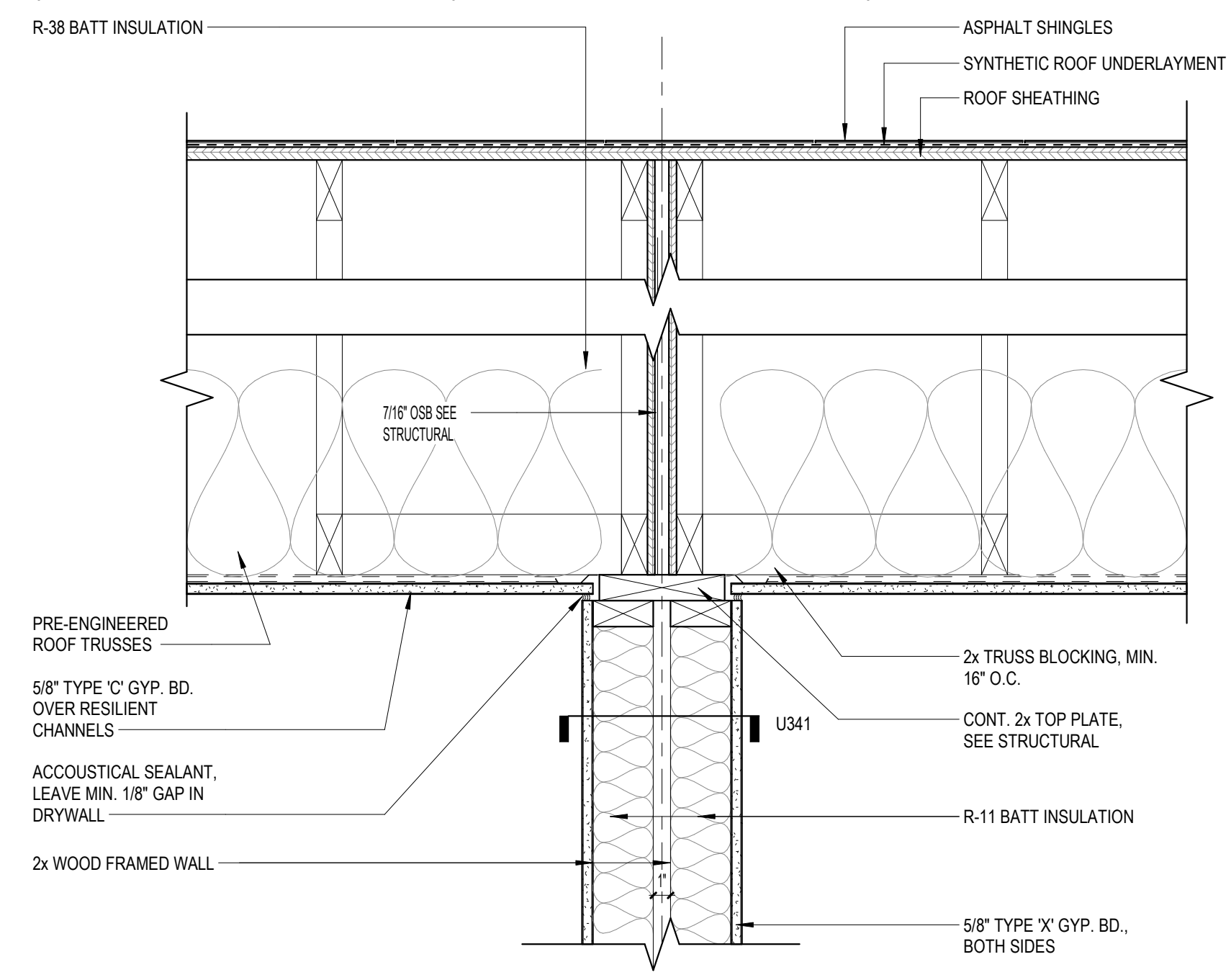
C1 OVERFLOW SCUPPER DETAIL
3" = 1'-0"



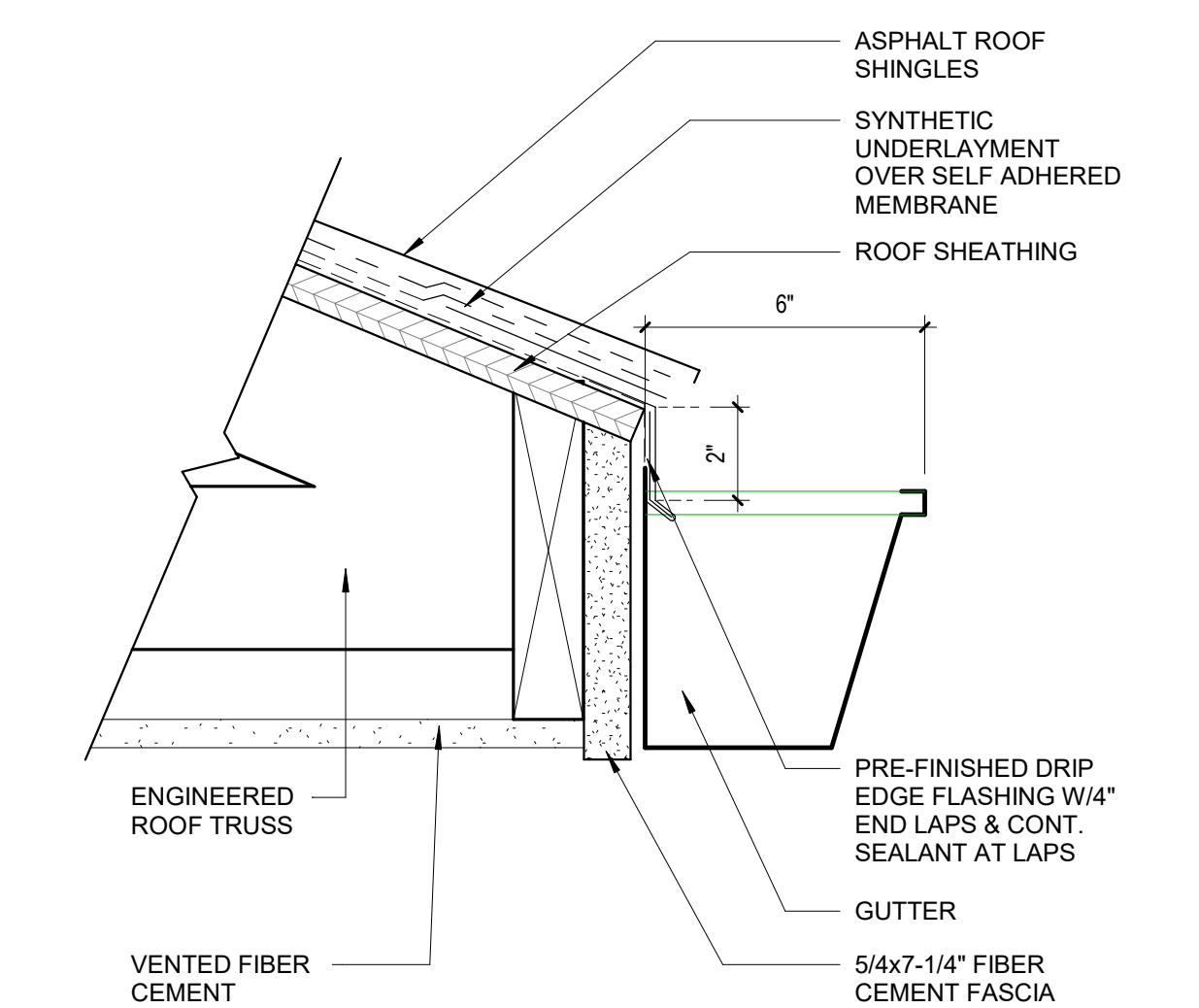
C2 ENLARGED RIDGE VENT DETAIL
3" = 1'-0"



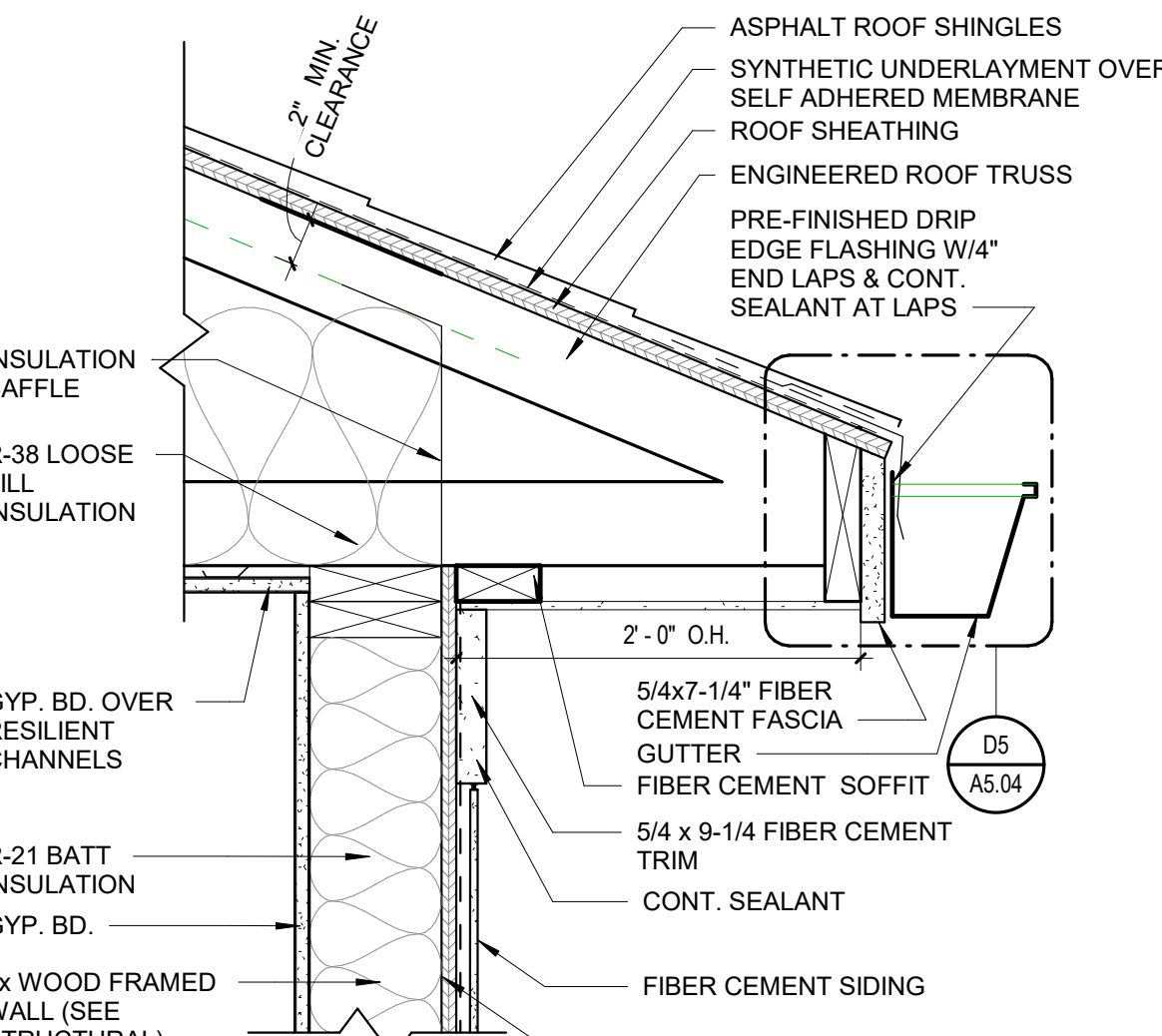
C6 ENLARGED RIDGE DETAIL
3" = 1'-0"



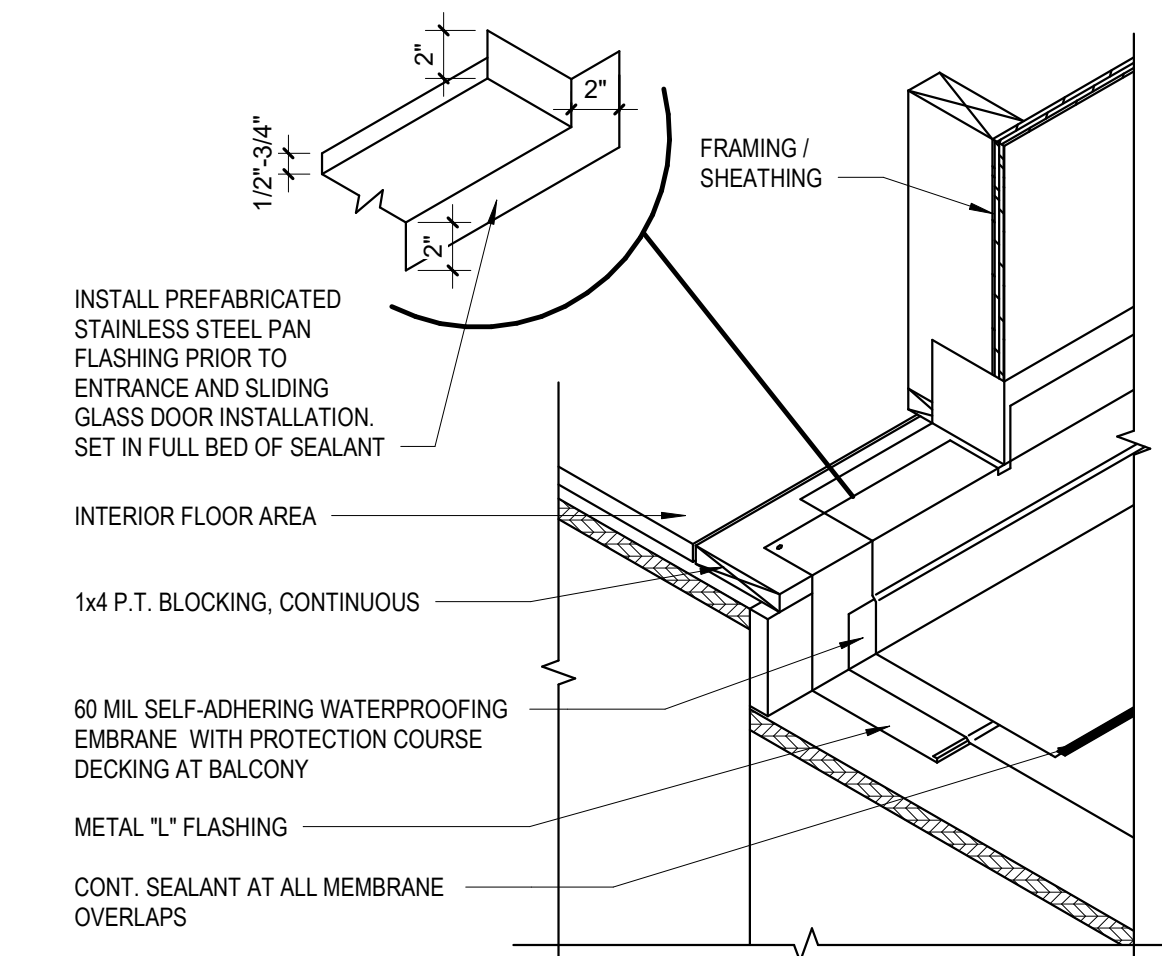
C10 TENANT SEP. @ ROOF PARA. TRUSS
1 1/2" = 1'-0"



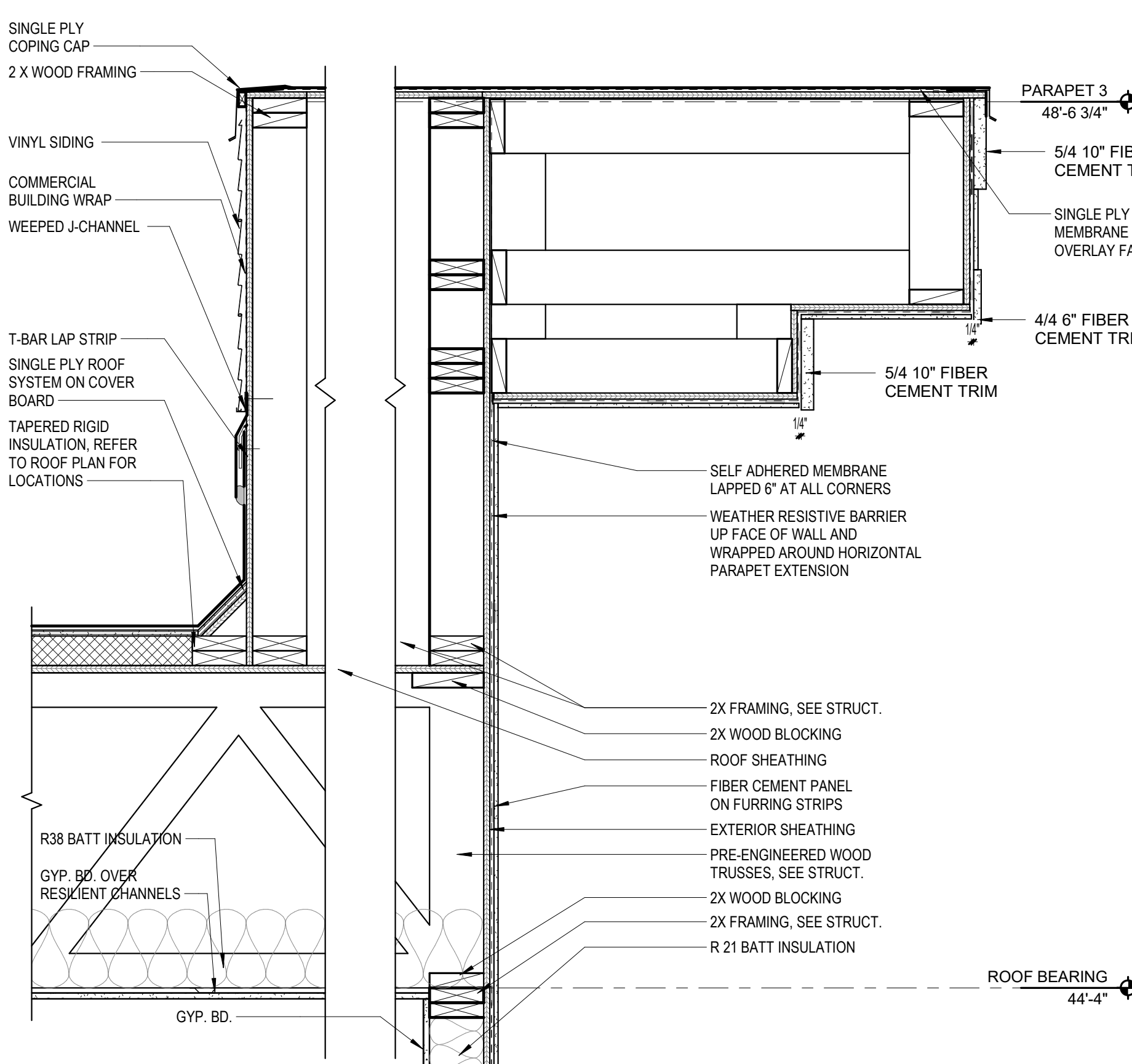
D5 ENLARGED FACIA DETAIL
3" = 1'-0"



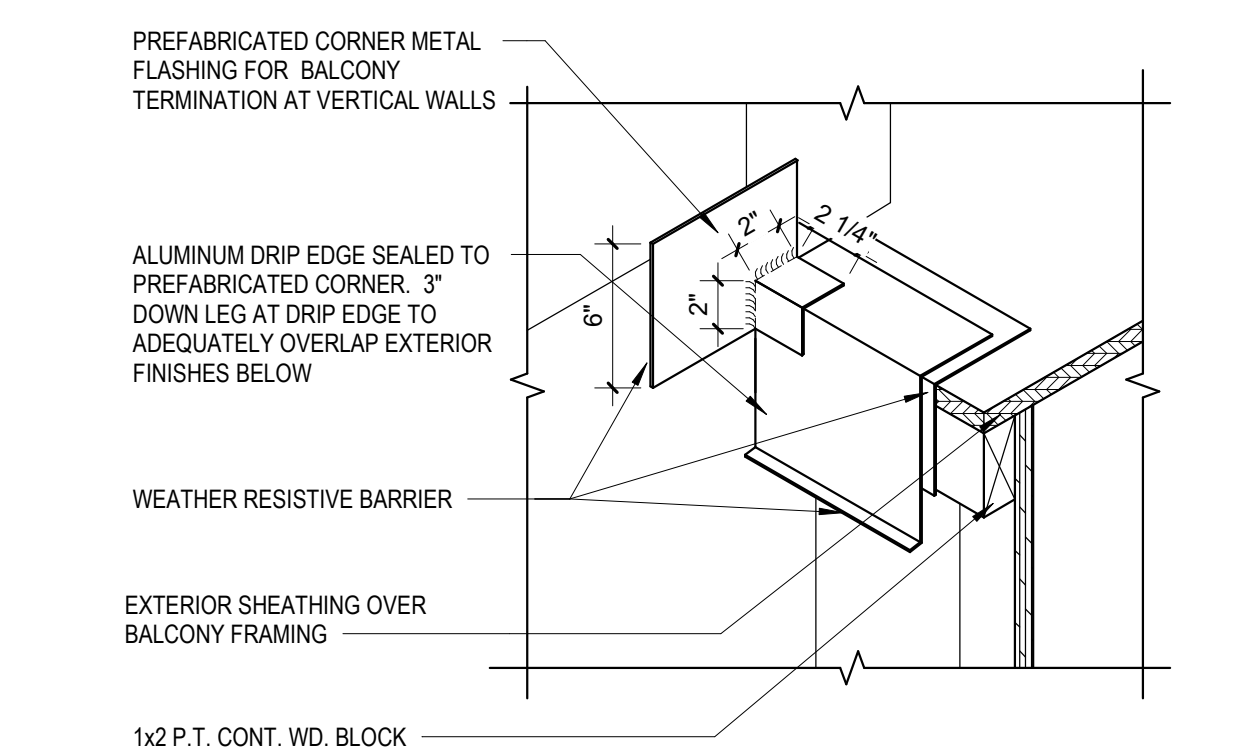
D4 TYP. ROOF VENT EAVE DETAIL
1 1/2" = 1'-0"



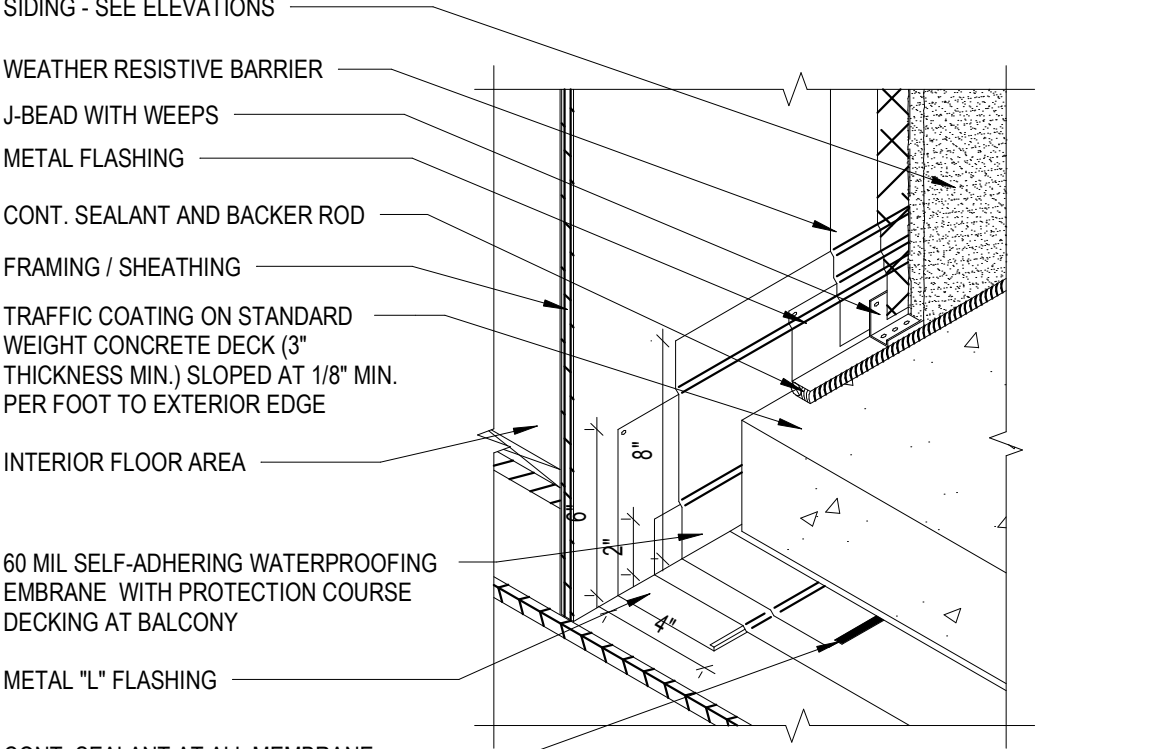
D3 BALCONY WATERPROOFING AT DOOR
1 1/2" = 1'-0"



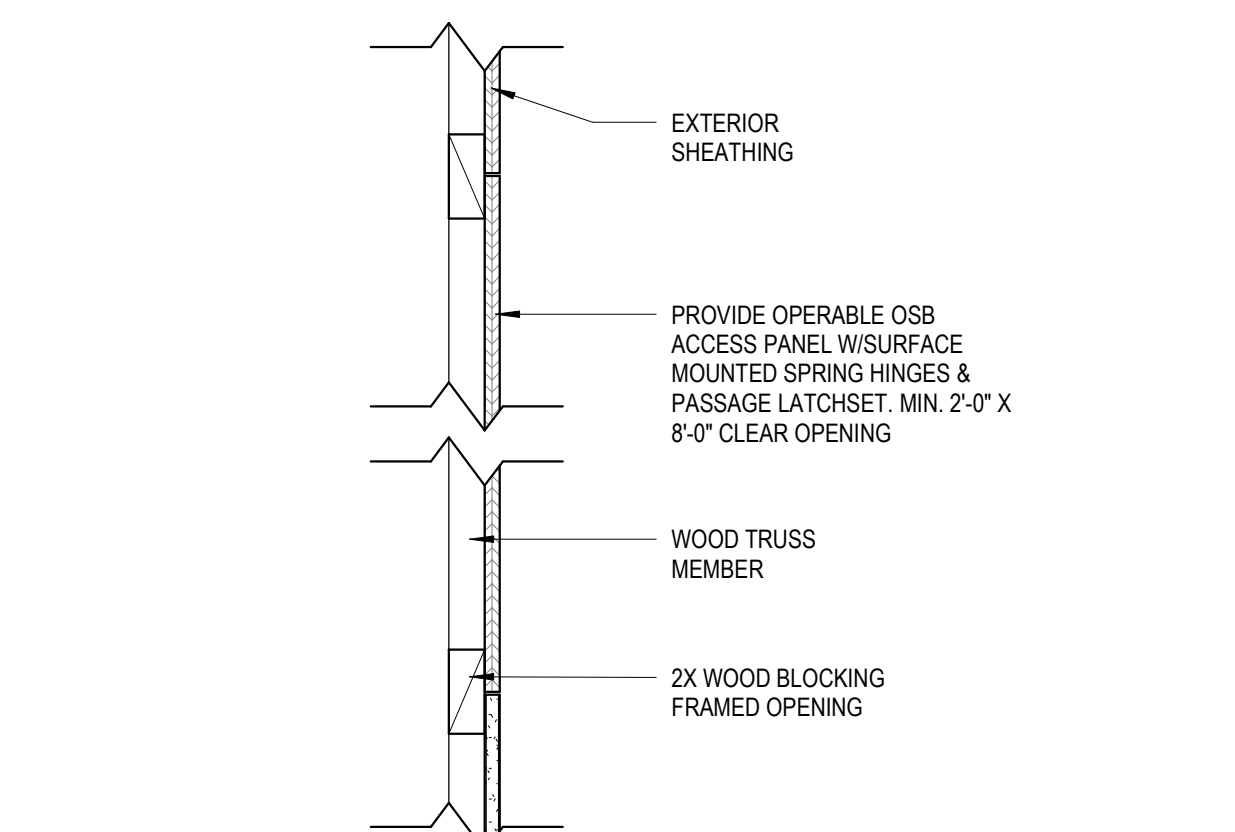
D1 CORNICE DETAIL @ PARAPET 3
1" = 1'-0"



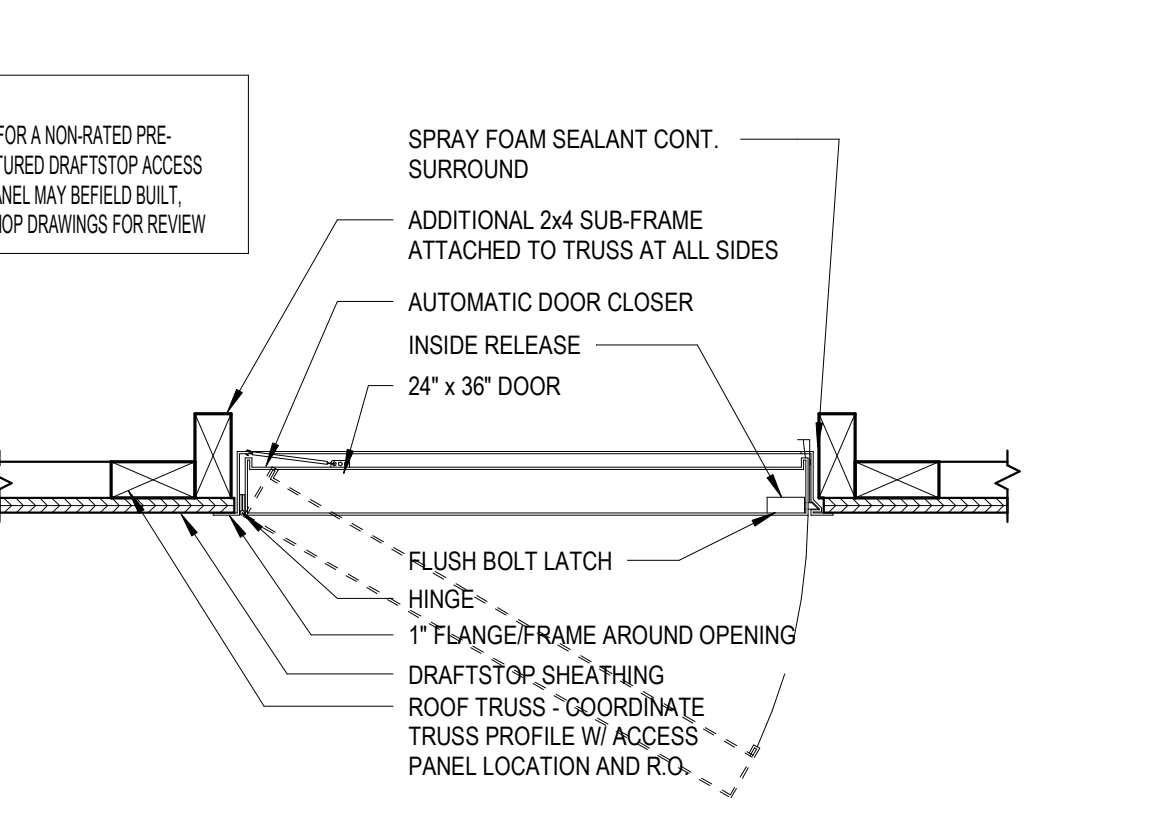
F1 BALCONY WATERPROOFING DETAIL
1 1/2" = 1'-0"



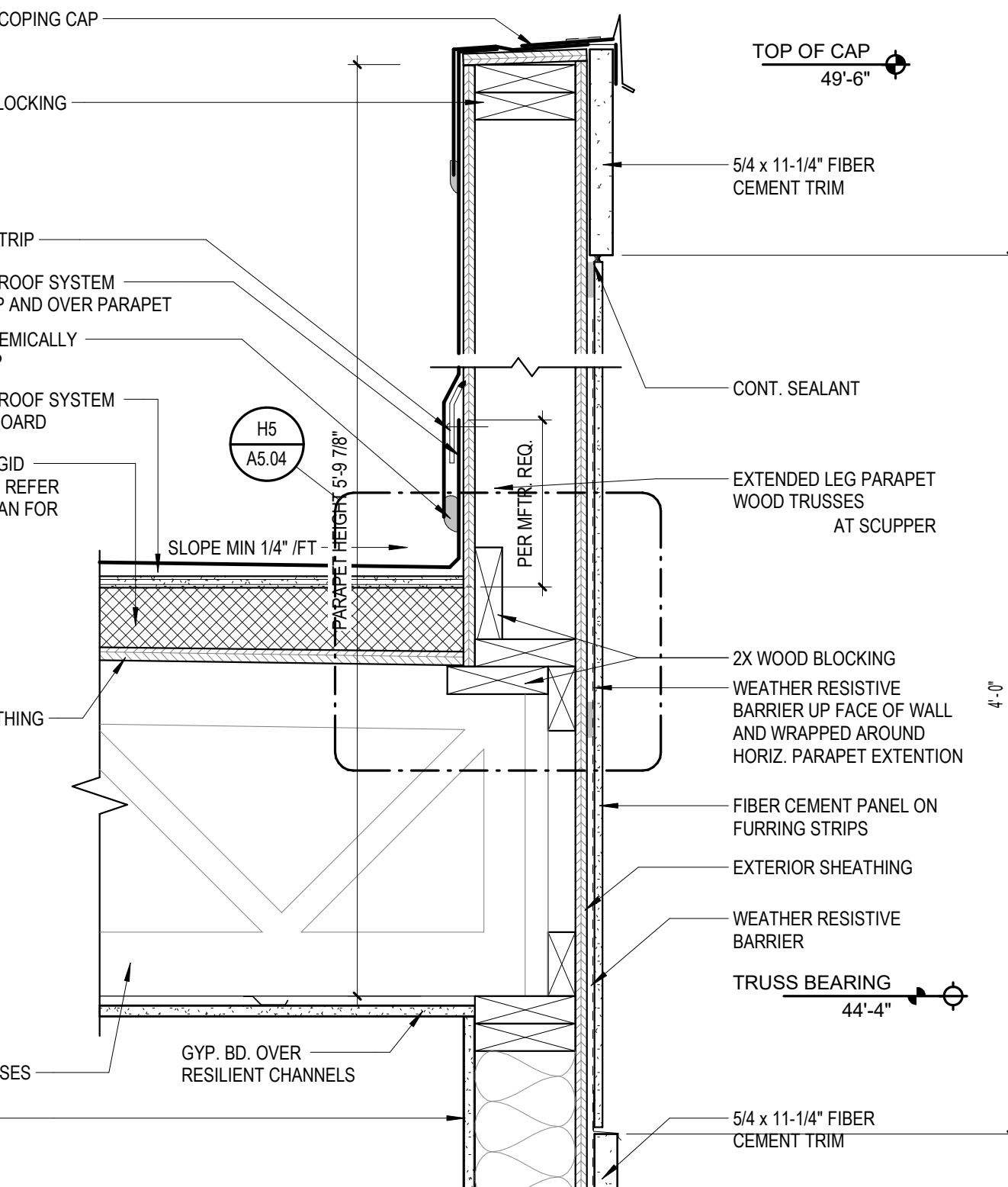
F3 WATERPROOFING AT WALL
1 1/2" = 1'-0"



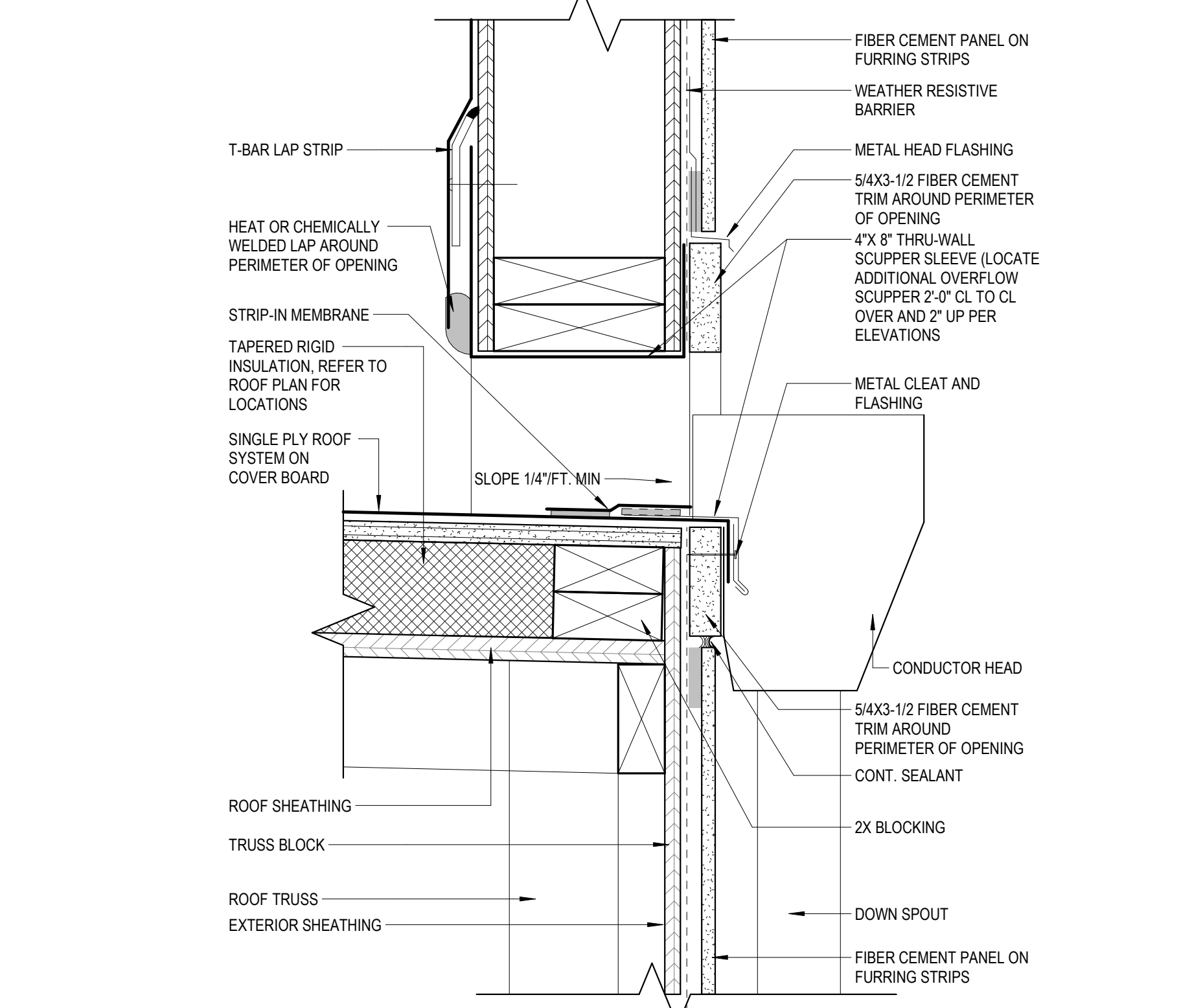
H1 DRAFTSTOP ACCESS PANEL
1 1/2" = 1'-0"



H3 DRAFTSTOP ACCESS DOOR
1 1/2" = 1'-0"



H4 PARAPET DETAIL
1 1/2" = 1'-0"



H5 PARAPET SCUPPER DETAIL
3" = 1'-0"

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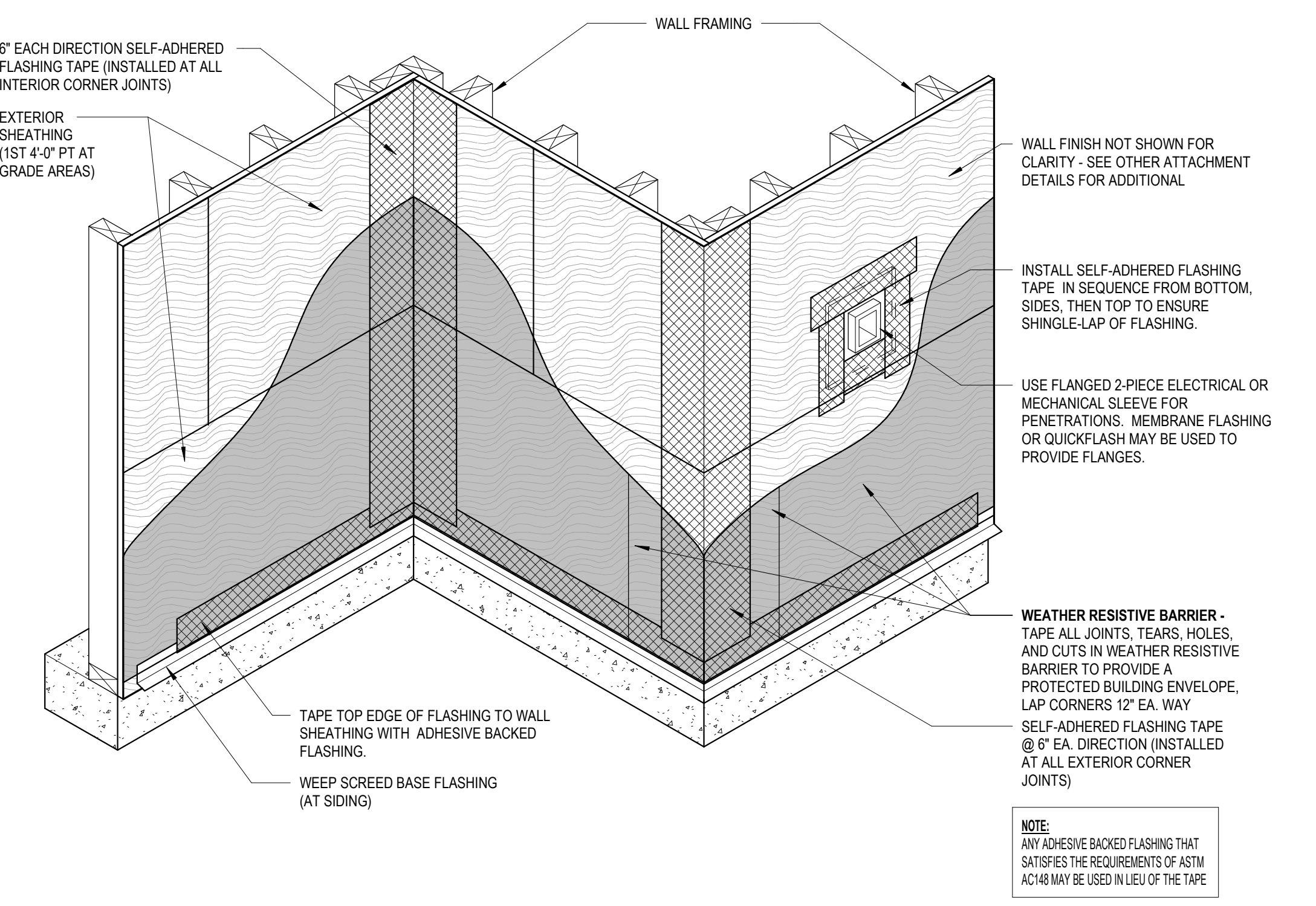
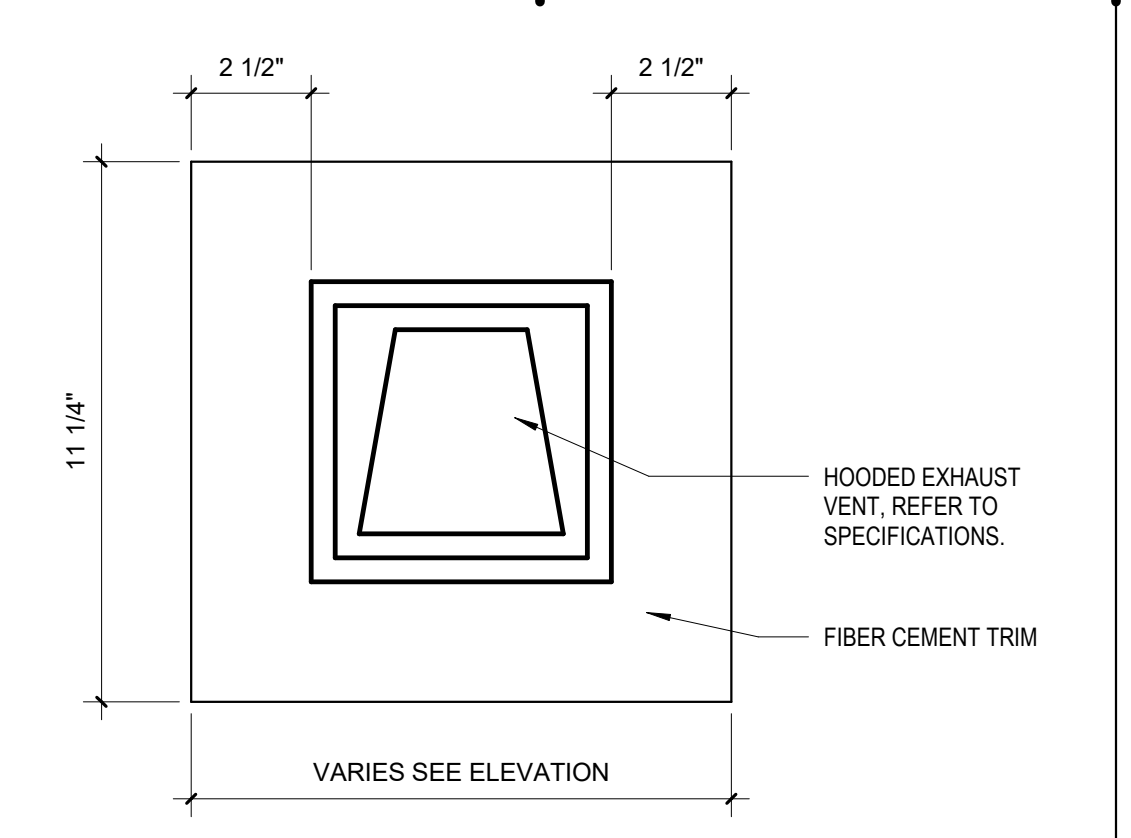
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4/15/22
MICHAEL GOVE
BSA

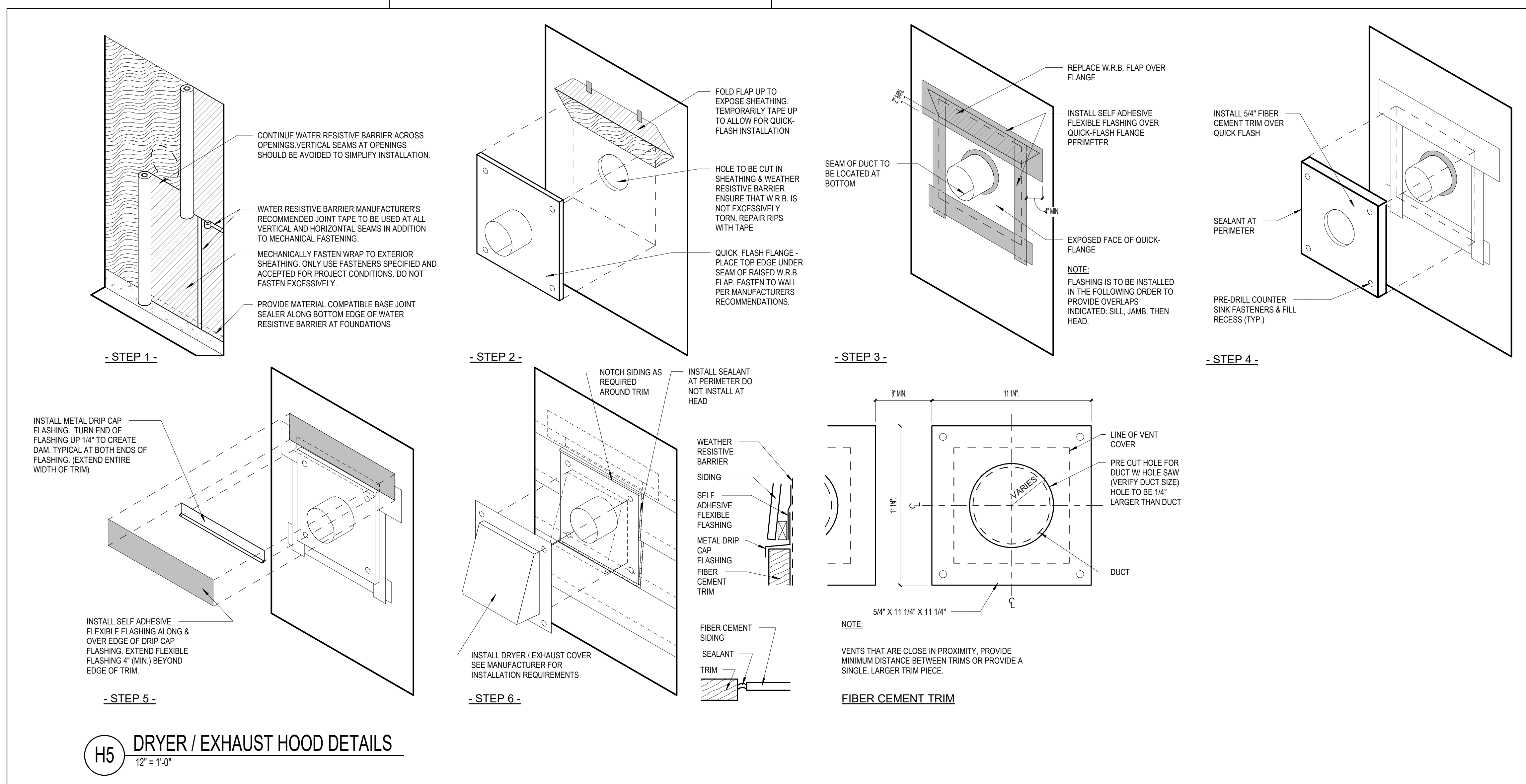
THE ROBERT MADISON
MADISON, ALABAMA
Drawn: MB
Checked: JK
Approval: MS
Date: 04/15/2022
Project #: 572

ROOF DETAILS
A5.04

B7 DRYER / EXHAUST PLINTH DETAIL
3" = 1'-0"



D9 CORNER TAPING AND FLASHING INSTALLATION
12" = 1'-0"



H5 DRYER / EXHAUST HOOD DETAILS
12" = 1'-0"

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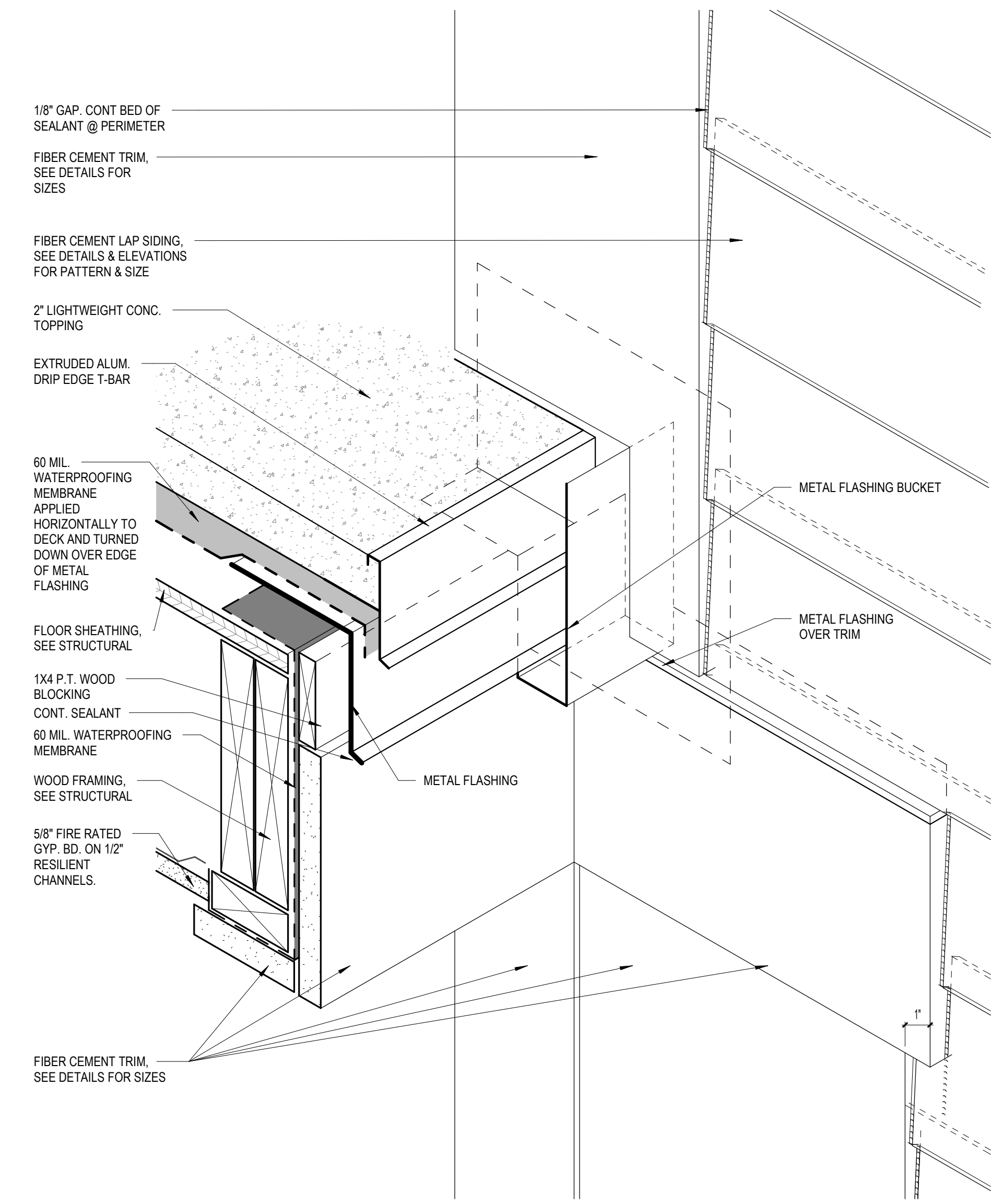
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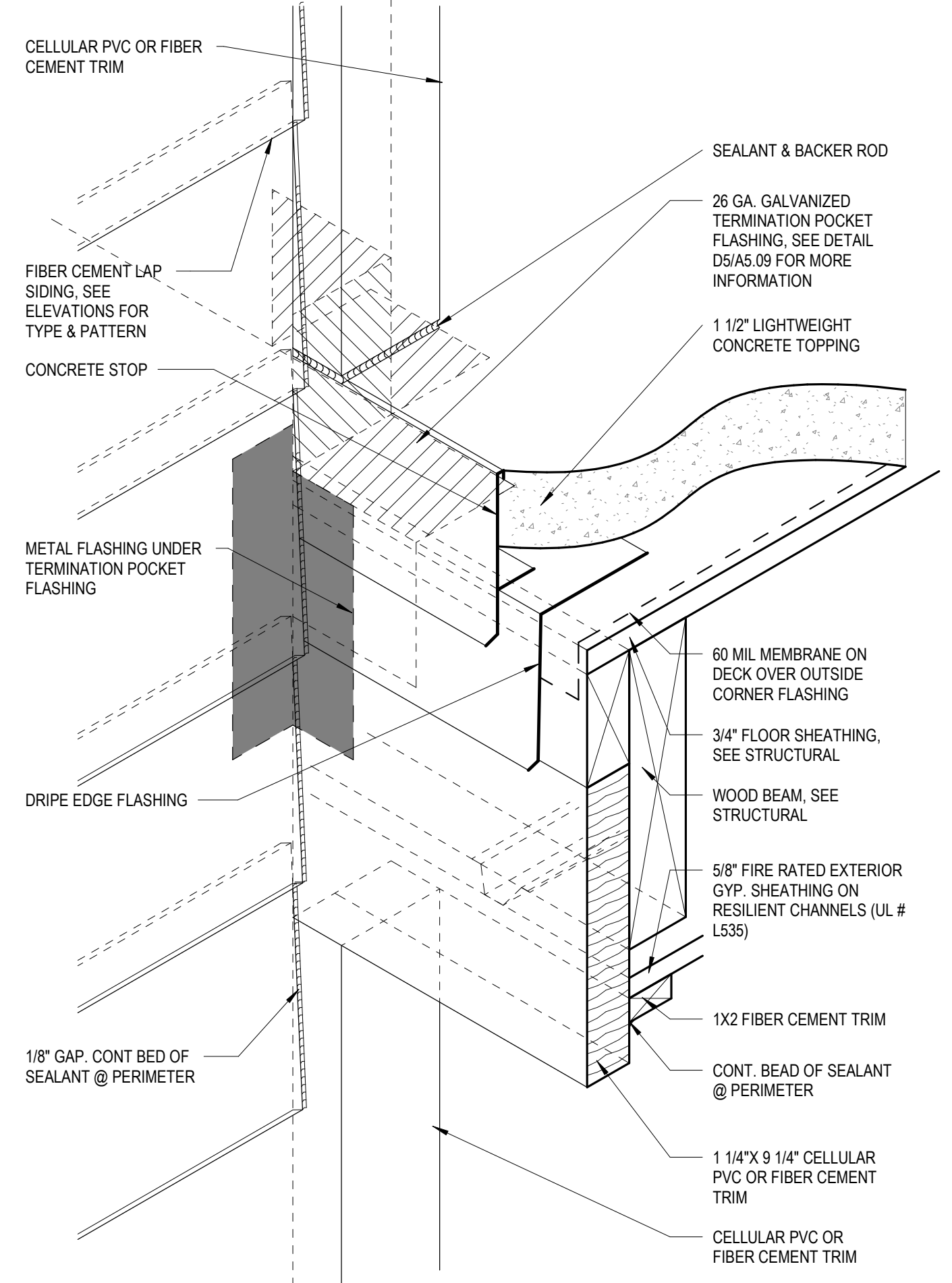
CONSULTANT
STATE OF ALABAMA
MICHAEL GOVE
8234
4/15/22
REGISTERED ARCHITECT
MICHAEL GOVE
SEA

THE ROBERT MADISON	Drawn: MB
MADISON, ALABAMA	Checked: JK
	Approval: MS
	Date: 04/15/2022
	Project #: 572

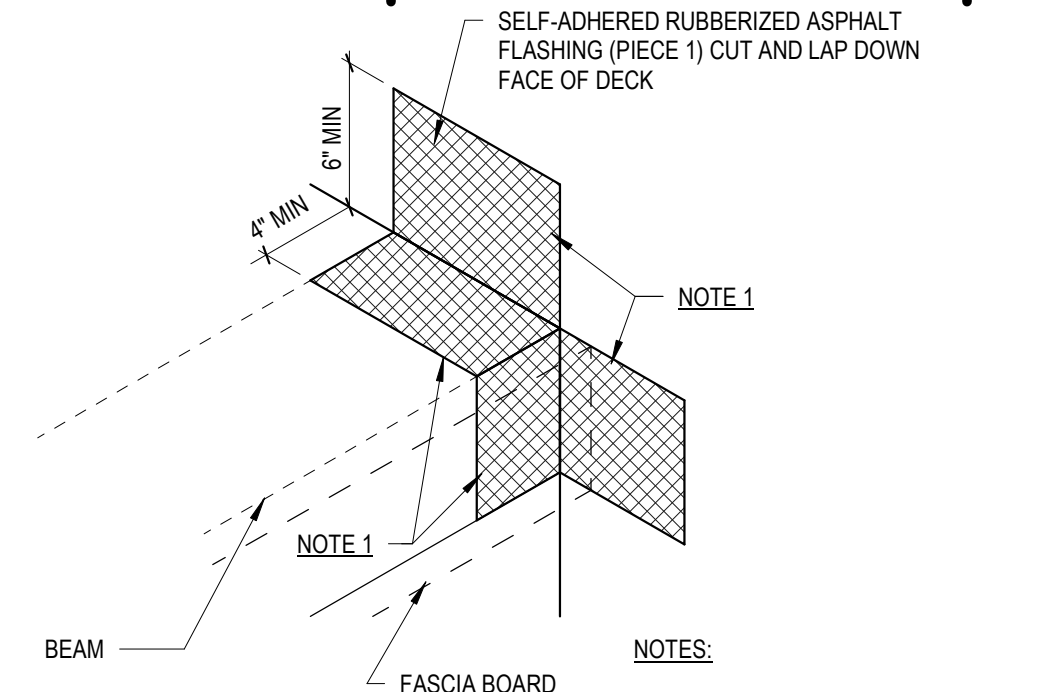
MISCELLANEOUS DETAIL
A5.05



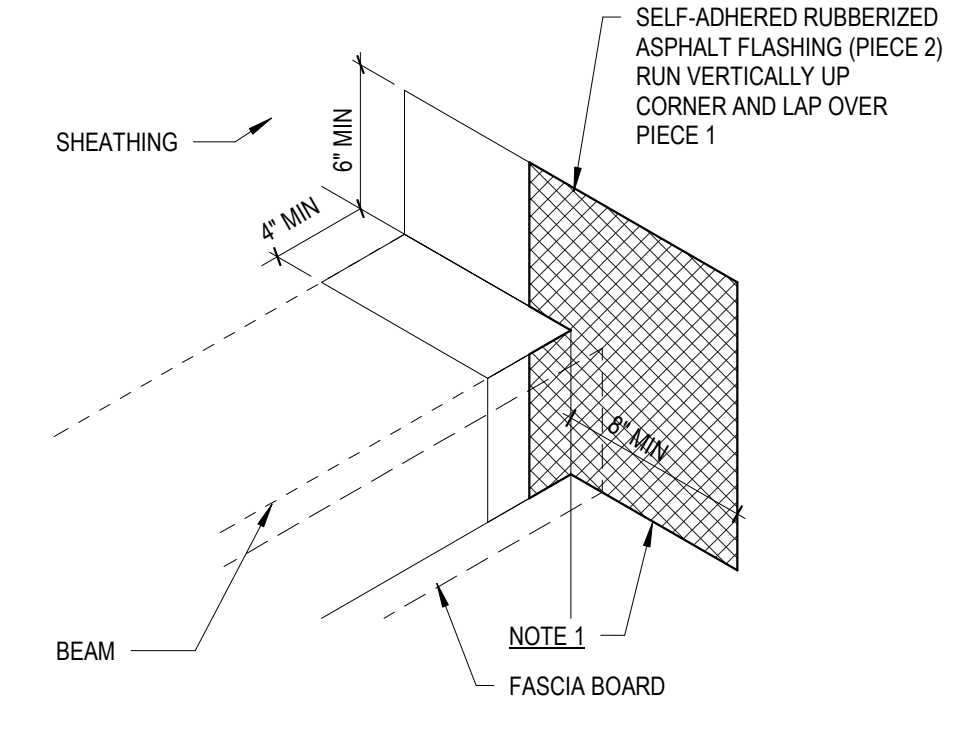
F1 BALCONY TRIM ISOMETRIC
3" = 1'-0"



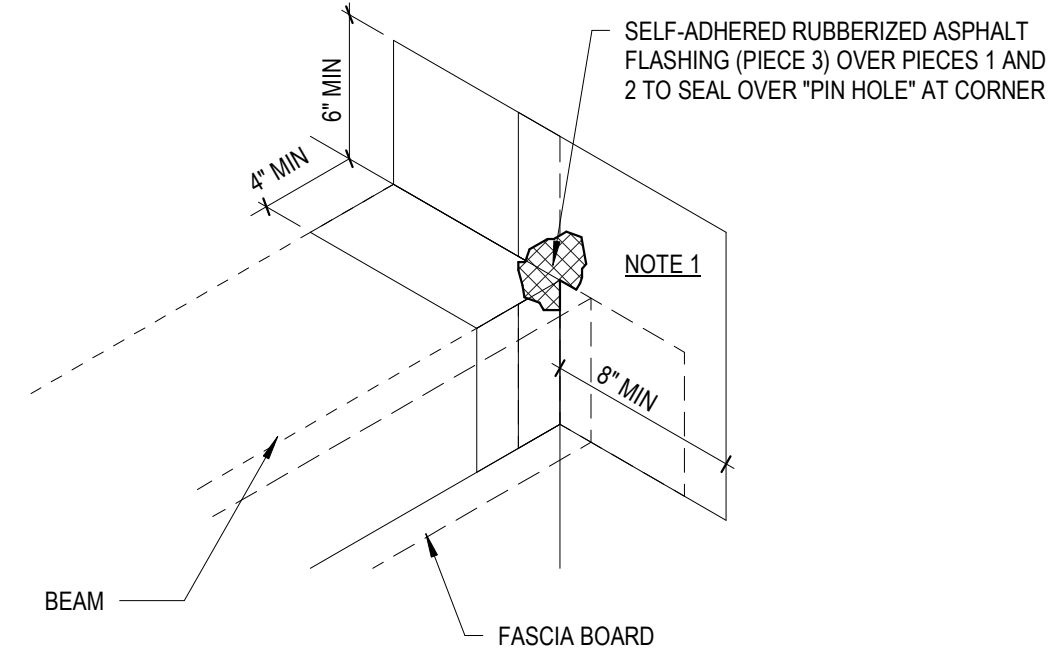
F2 BALCONY FLASHING ISOMETRIC
3" = 1'-0"



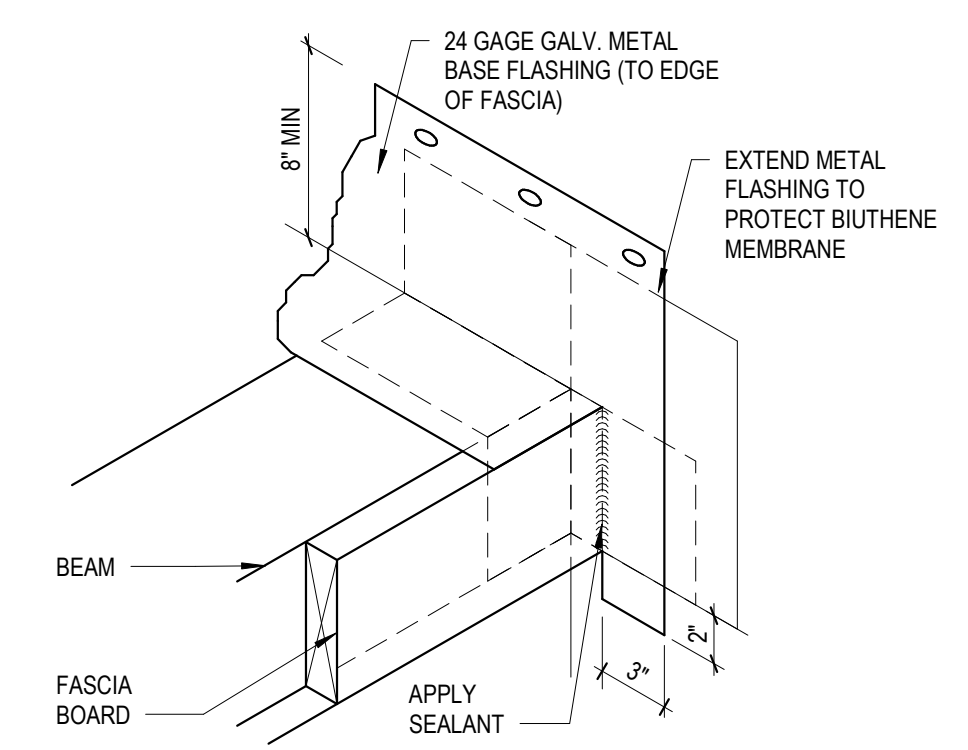
B1 WP-STEP1
1 1/2" = 1'-0"



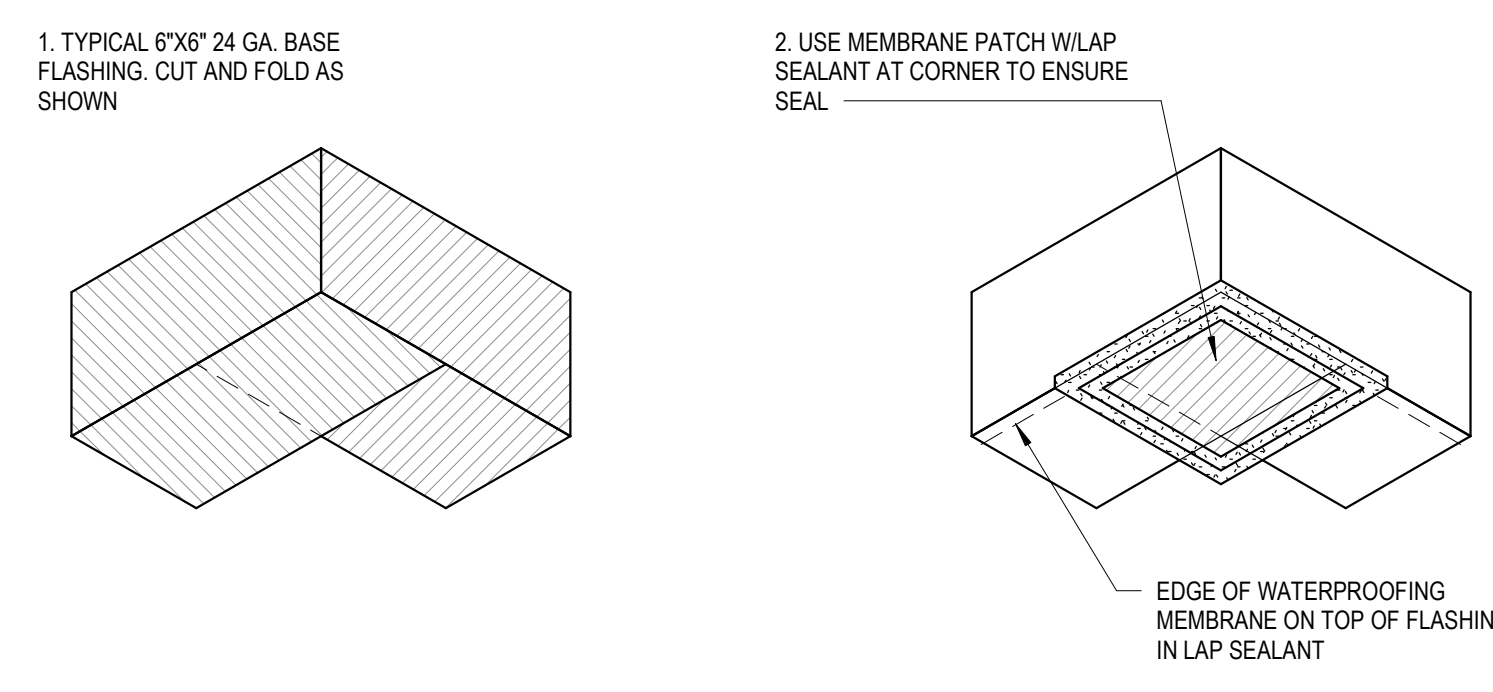
B2 WP-STEP2
1 1/2" = 1'-0"



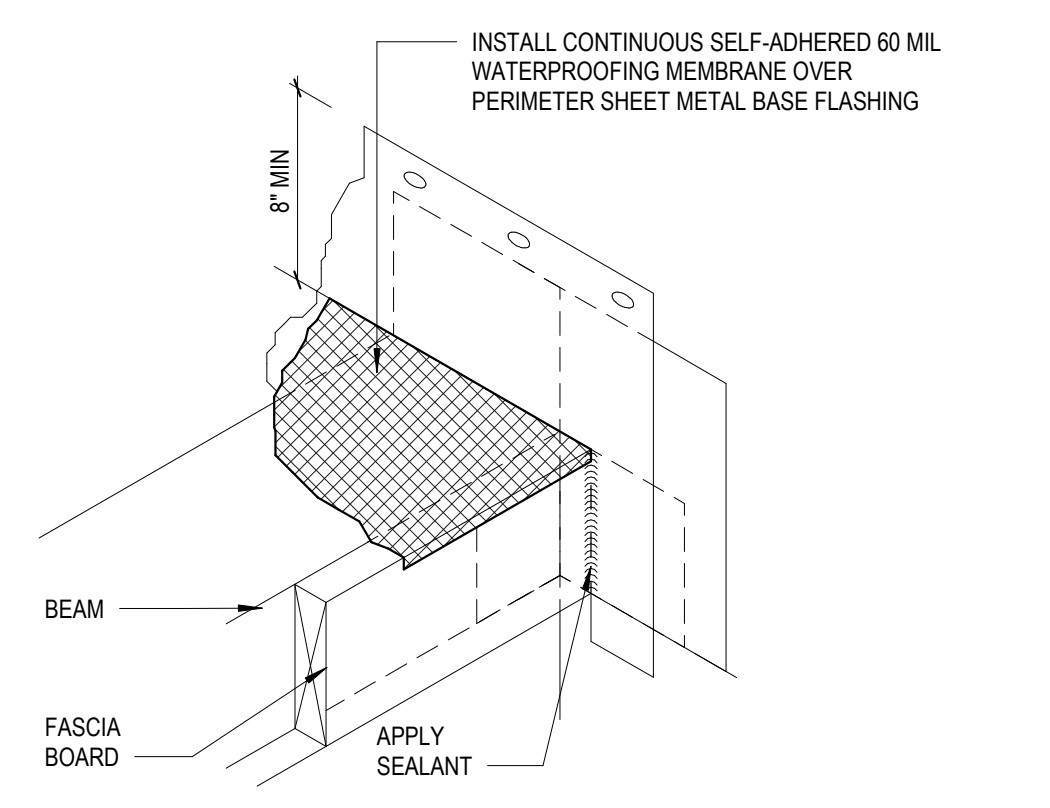
B3 WP-STEP 3
1 1/2" = 1'-0"



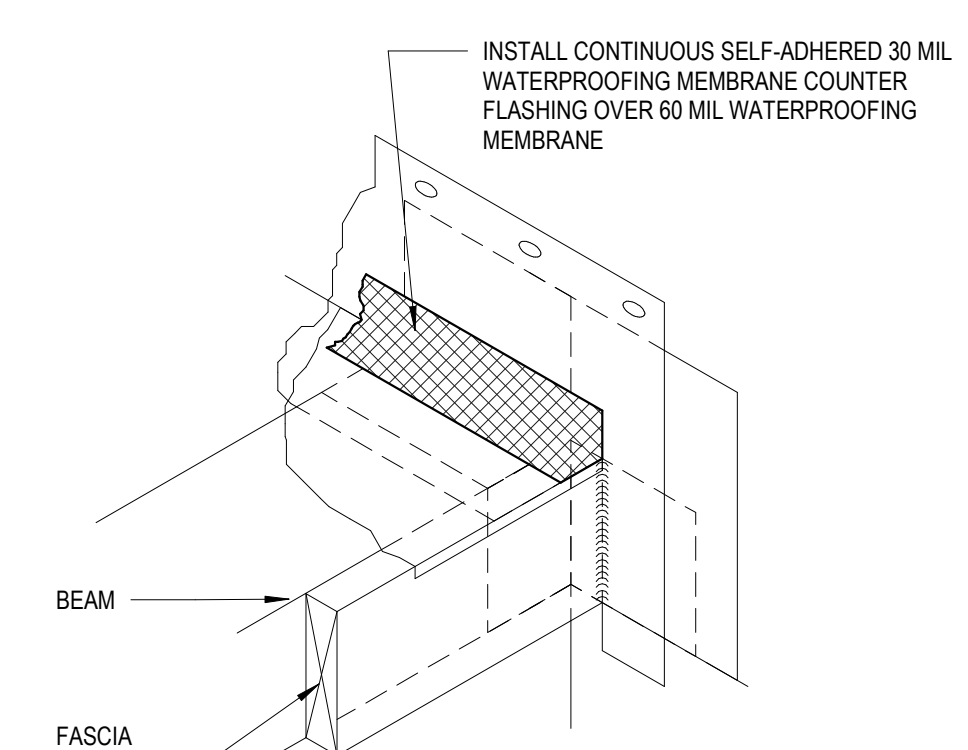
B4 WP-STEP 4
1 1/2" = 1'-0"



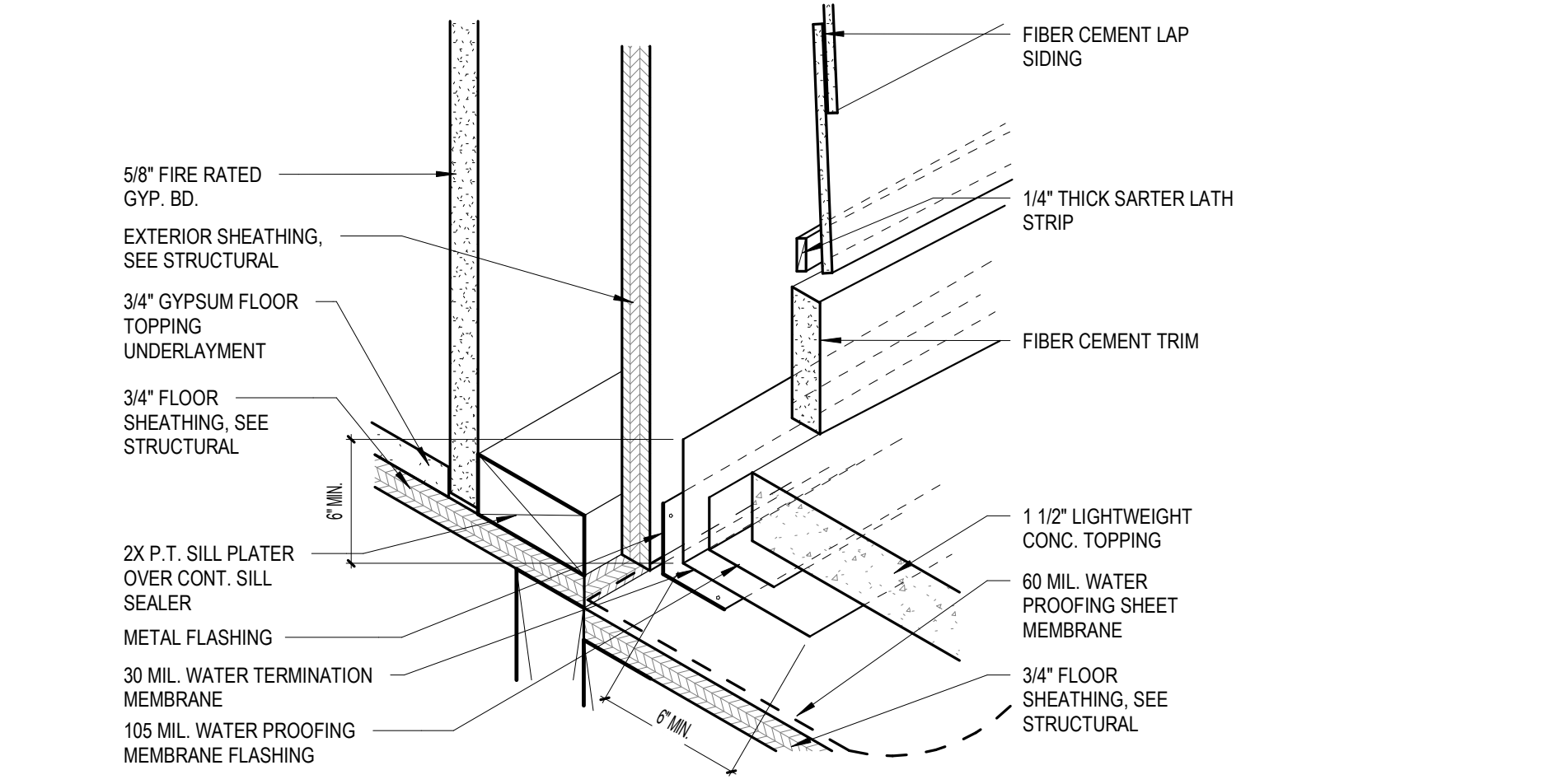
H1 DECK EDGE AT INSIDE CORNER DETAIL
3" = 1'-0"



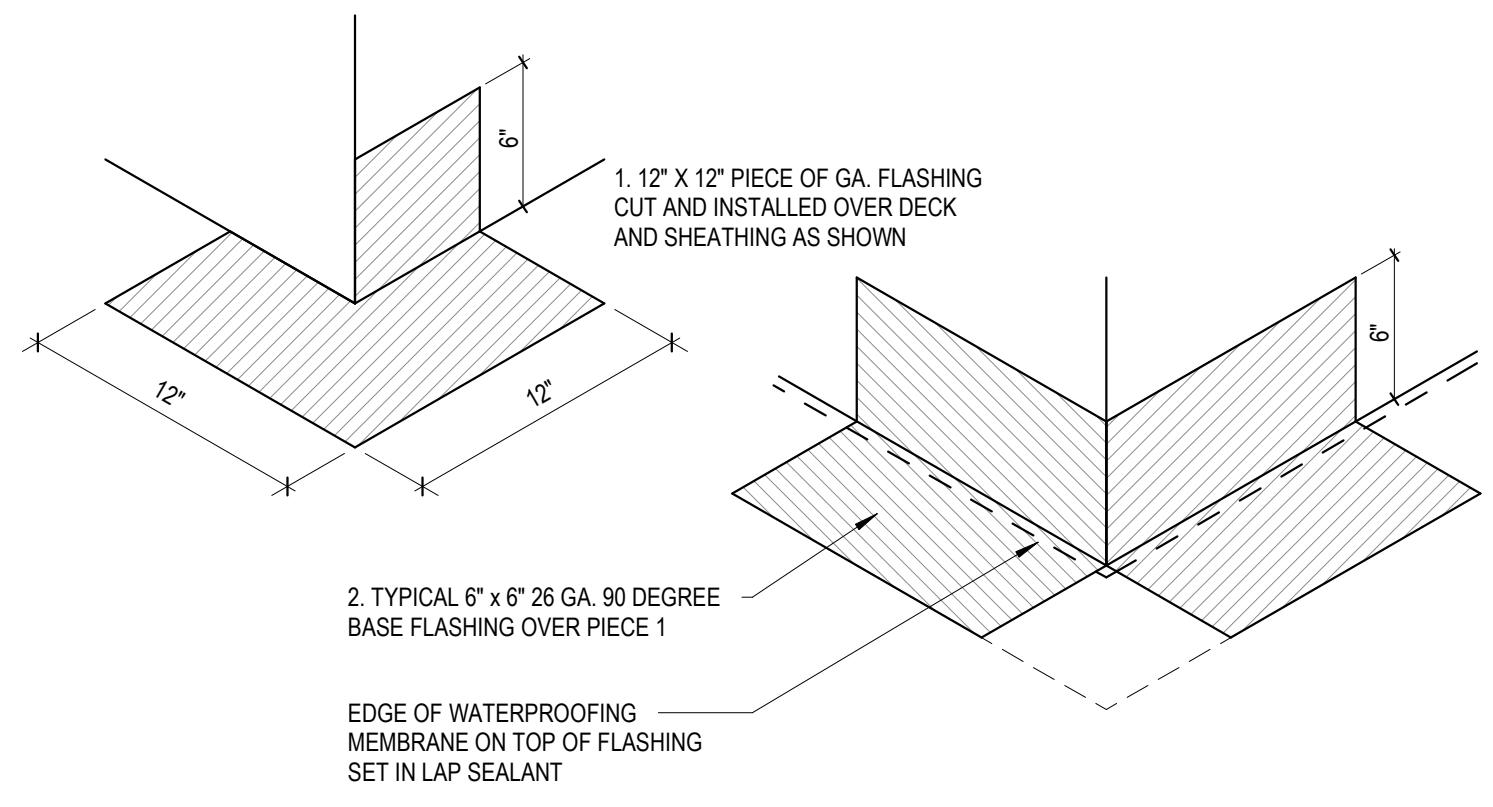
H2 WP-STEP 5
1 1/2" = 1'-0"



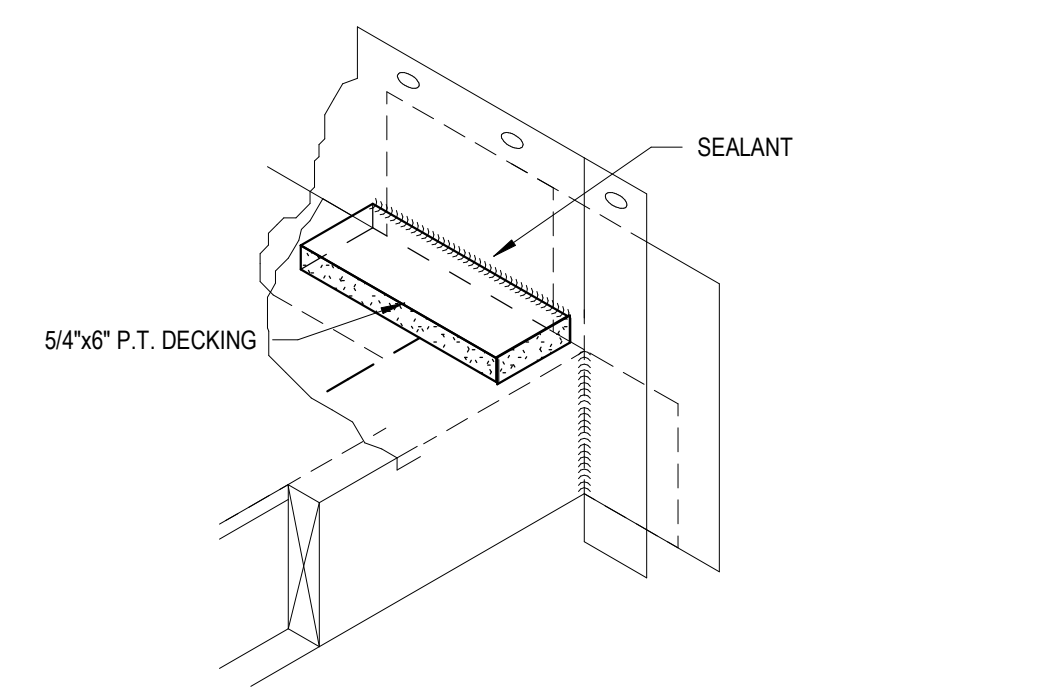
H3 WP-STEP 6
1 1/2" = 1'-0"



K1 FLASHING DETAIL @ BALCONY/BREEZEWAY
1 1/2" = 1'-0"



K2 DECK EDGE AT OUTSIDE CORNER DETAIL
1 1/2" = 1'-0"



K3 WP-STEP 7
1 1/2" = 1'-0"

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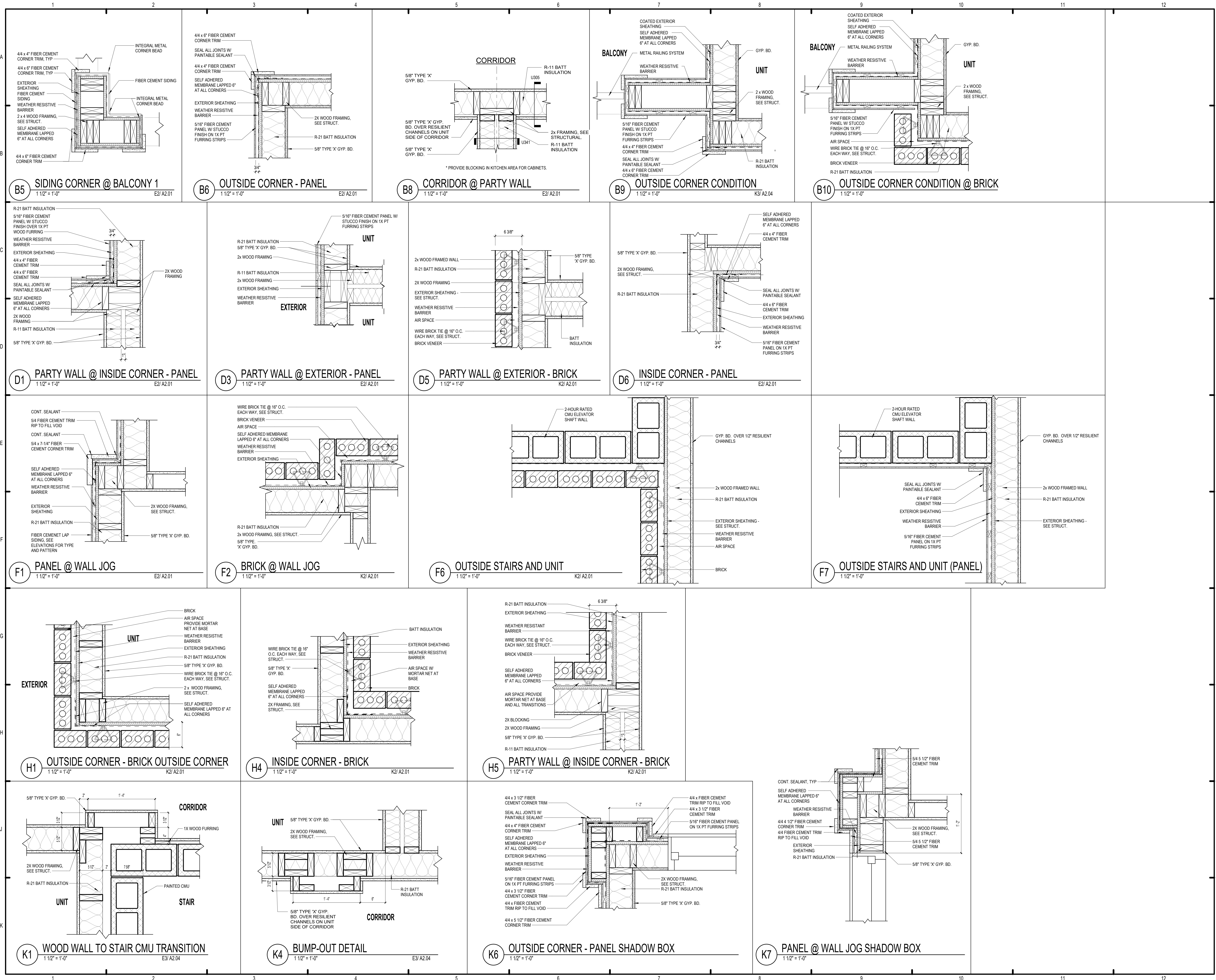
CONSULTANT

 MICHAEL DOVE
 PE

THE ROBERT MADISON	Drawn: MB
MADISON, ALABAMA	Checked: JK
	Approval: MS
	Date: 04/15/2022
	Project #: 572

PENETRATION AND FLASHING DETAILS

A5.06



ISSUE HISTORY		
No.	Date	Description
1	04/15/2022	PERMIT SUBMITTAL

REVISION HISTORY		
No.	Date	Description

FUGLEBERG KOCH

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www.fuglebergkoch.com AA26002103

CONSULTANT

MICHAEL LOVE
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THE ROBERT MADISON MADISON, ALABAMA	Drawn	MB
	Checked	JK
	Approval	MS
	Date	04/15/2022
Project #		572

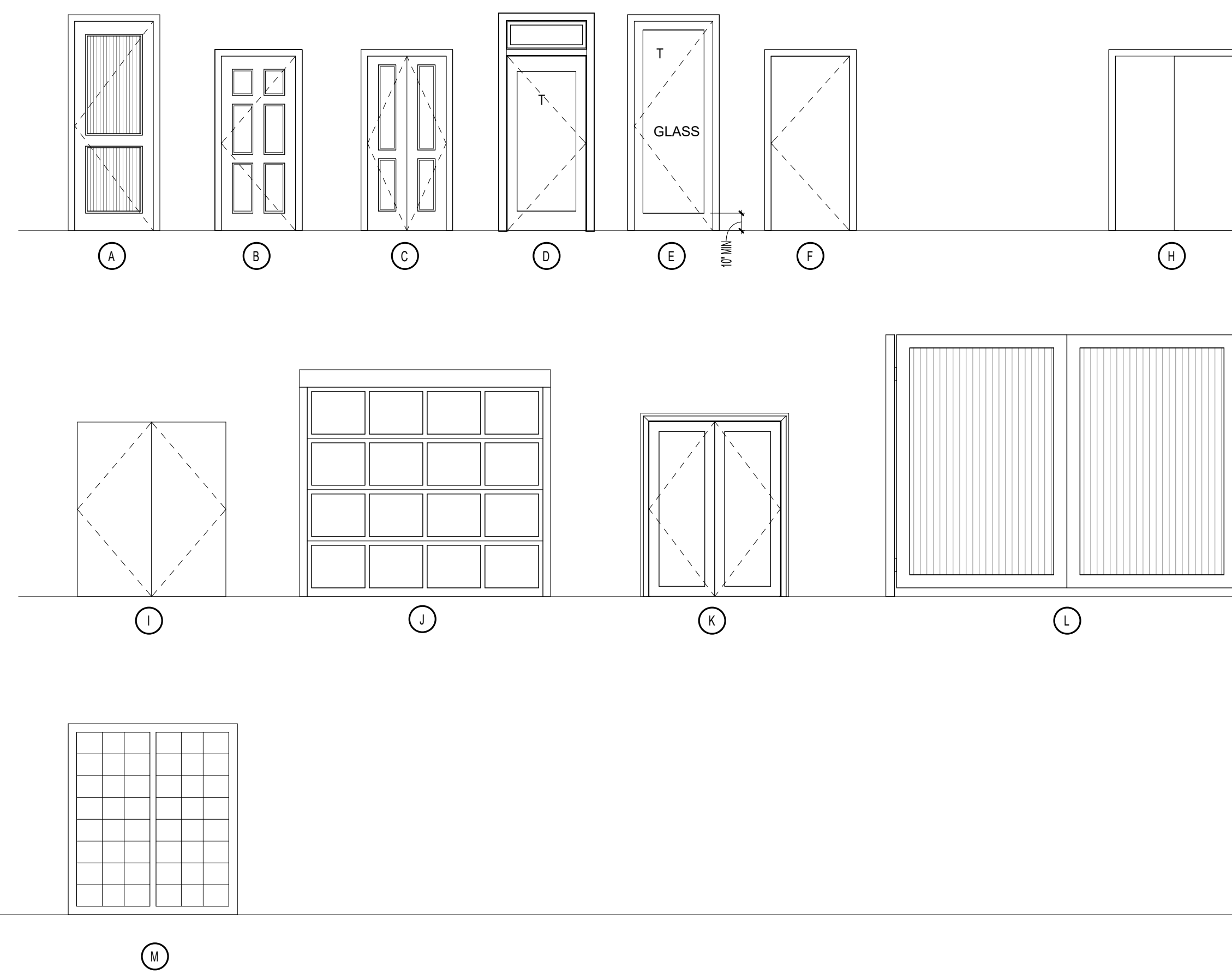
PLAN DETAILS

A6.01

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DOOR SCHEDULE @ UNITS										
TYPE	WIDTH	HEIGHT	THICKNESS	MATERIAL	GLAZING TYPE	FRAME MATERIAL	TYPE	DOOR RATING	HARDWARE SET	REMARKS
U01	3'-0"	6'-8"	1 3/8"	FG		HM	A	20 MIN.	1	
U02	2'-10"	6'-8"	1 3/8"	WD		WD	B		3	
U03	2'-8"	6'-8"	1 3/8"	WD		WD	B		3	
U04	5'-0"	6'-8"	1 3/8"	WD		WD	C		5	
U05	3'-0"	6'-8"	1 3/8"	WD		WD	C		5	
U07	1'-4"	6'-8"	1 3/8"	WD		WD	B		4	
U09	5'-0"	6'-8"	1 3/8"	WD		WD	B		7	
U10	3'-0"	6'-8"	1 3/8"	FG/GLASS		HM	E		2	PROVIDE SAFETY GLAZING, INSULATED
U29	3'-0"	6'-8"	1 3/8"	WD		WD	B		3	
U30	2'-8"	6'-8"	1 3/8"	WD		WD	C		5	
U030	3'-0"	6'-8"	1 3/8"	WD		WD	C		5	
U46	4'-0"	6'-8"	1 3/8"	WD		WD	C		5	
U57	3'-0"	6'-8"	1 3/8"	WD		WD	C		5	

DOOR SCHEDULE @ COMMON AREAS										
TYPE	WIDTH	HEIGHT	THICKNESS	MATERIAL	GLAZING TYPE	FRAME MATERIAL	TYPE	DOOR RATING	HARDWARE SET	REMARKS
G03	9'-0"	8'-0"	1 1/2"	MTL	-	MTL	J	-	-	GARAGE DOOR
G05	3'-0"	8'-0"	1 3/8"	HM	-	HM	A	1.5HR	11	
G06	10'-0"	8'-0"	1 1/2"	MTL	-	MTL	J	-	-	GARAGE DOOR
G07	3'-0"	6'-8"	1 3/8"	FG	-	HM	A	-	9	
G08	13'-0"	10'-0"	1 3/4"	MTL	-	MTL	L	-	-	TRASH ENCLOSURE GATES
G11	3'-0"	8'-0"	1 3/4"	FG/GLASS	TEMP	HM	E	-	10	ENTRANCE DOOR



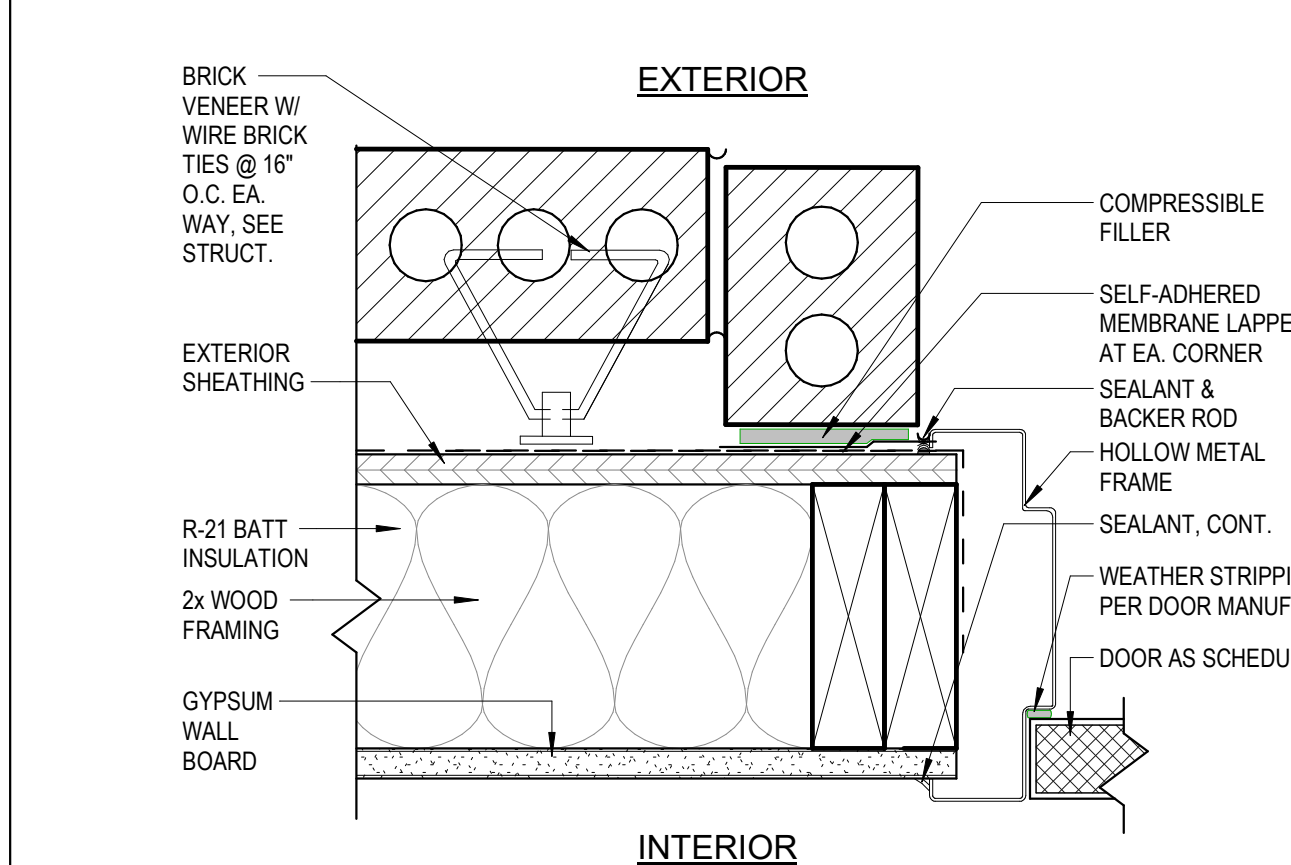
DOOR TYPES
14' = 1'-0"

DOOR NOTES:

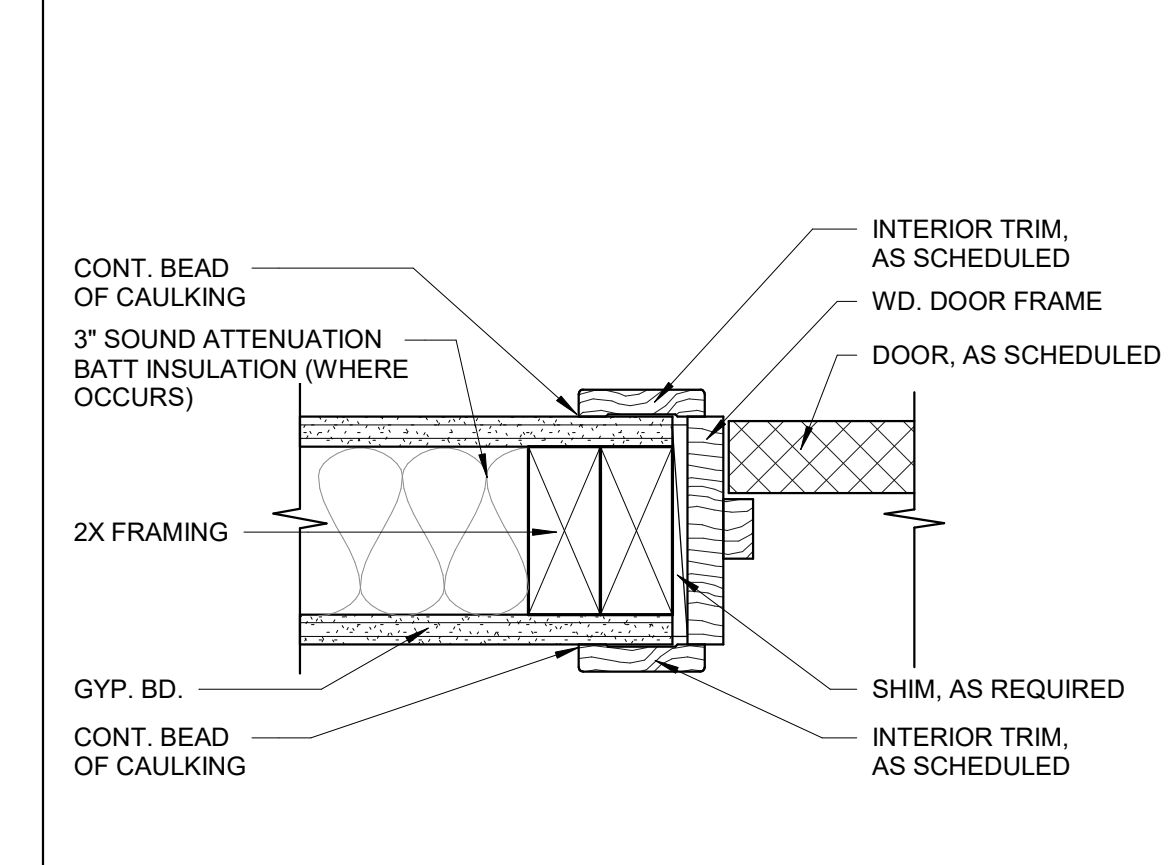
- A. ALL FIRE DOORS AND FRAMES TO HAVE APPROVED CLOSERS AND LATCHING MECHANISMS.
- B. THRESHOLDS AT EXTERIOR DOORS ARE NO HIGHER THAN 1/2" MAX.
- C. VERIFY ROUGH OPENING REQUIRED WITH DOOR FRAME MANUFACTURER.
- D. PROVIDE WEATHERSTRIPPING AT ALL EXTERIOR DOORS.
- E. DOOR MANUFACTURER SHALL PROVIDE CERTIFICATION, SIGNED AND SEAL BY A REGISTERED ALABAMA PROFESSIONAL ENGINEER THAT:
 - 1- DOORS WILL BE ABLE TO WITHSTAND REQUIRED WIND LOADS AND PRESSURE.
 - 2- TO SUPPLY TYPE AND NUMBER OF FASTENERS REQUIRED TO SECURE FRAME TO HEAD, JAMBS OF ALL DOOR OPENINGS.
- F. THE AVERAGE TEMPERATURE RISE DEVELOPED ON THE UNEXPOSED SIDE SHALL NOT EXCEED 450° F (232° C) AT THE END OF 30 MINUTES OF STANDARD FIRE TEST EXPOSURE.

HARDWARE NOTES:

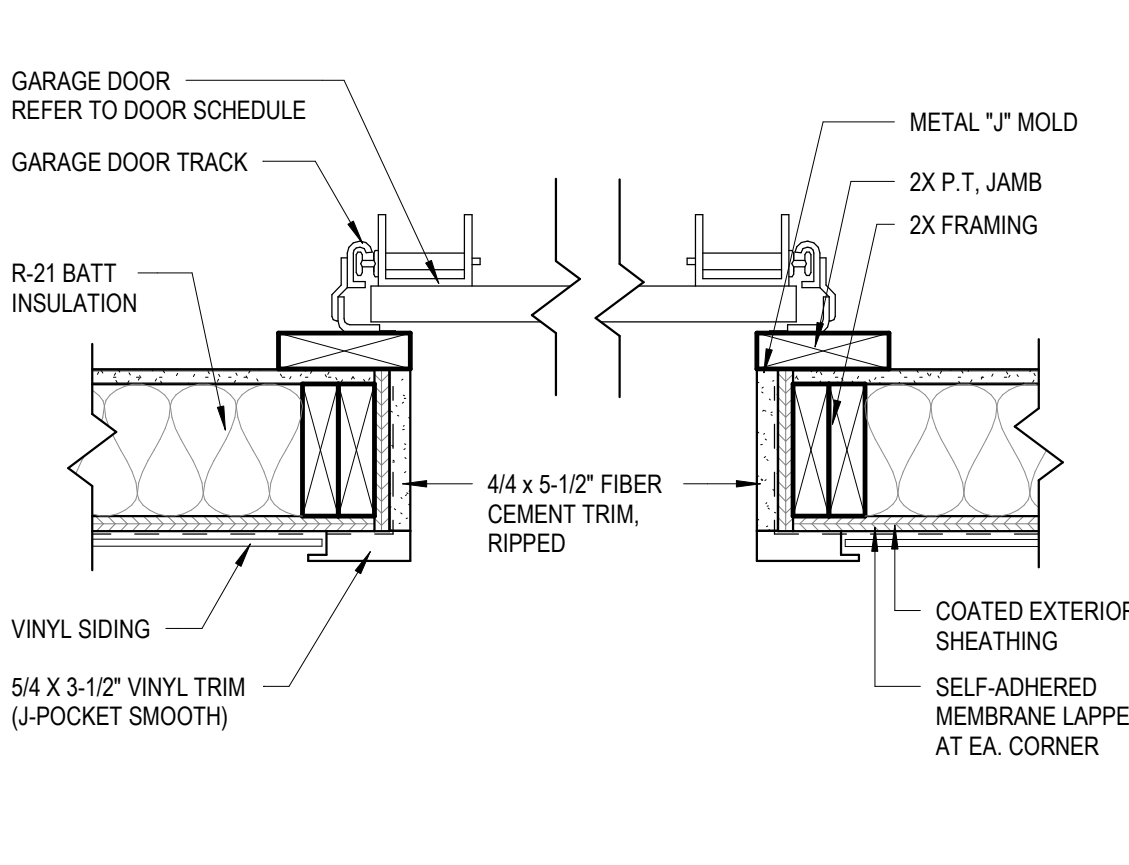
- A. REFER TO SPECIFICATIONS FOR HARDWARE GROUPS. ALL HARDWARE TO MEET INTERNATIONAL BUILDING CODE REQUIREMENTS AND MEET FAIR HOUSING GUIDELINES FOR ACCESSIBLE AND USABLE DOORS.
- B. PRIMARY ENTRY DOORS OF DWELLING UNIT EXTERIOR SIDE, PUBLIC AND COMMON USED DOORS MUST PROVIDE 32" CLEAR WIDTH AND HAVE 1/2" THRESHOLDS.
- C. BALCONY DOOR THRESHOLD TO NOT EXCEED 1/2" FOR IMPERVIOUS CONSTRUCTION OF THE WET SIDE.
- D. ALL UNITS SHALL HAVE LEVER TYPE HARDWARE ON ALL DOORS. IF CLOSER IS PROVIDED, SHALL NOT BE REQUIRED TO HAVE MORE THAN 5 LBF. TO OPERATE AND CLOSE UNLESS REQUIRED BY LOCAL FIRE AUTHORITY.



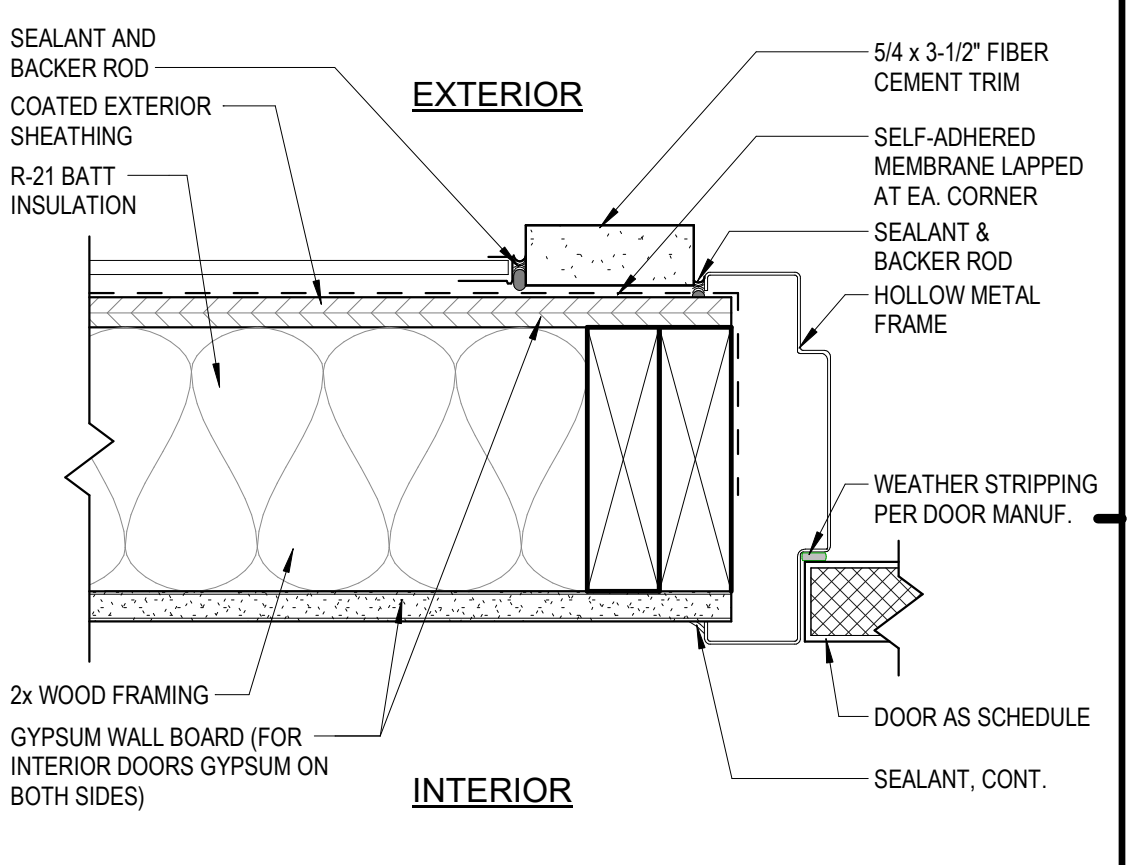
F3 EXT. DOOR JAMB DETAIL - BRICK
3' = 1'-0"



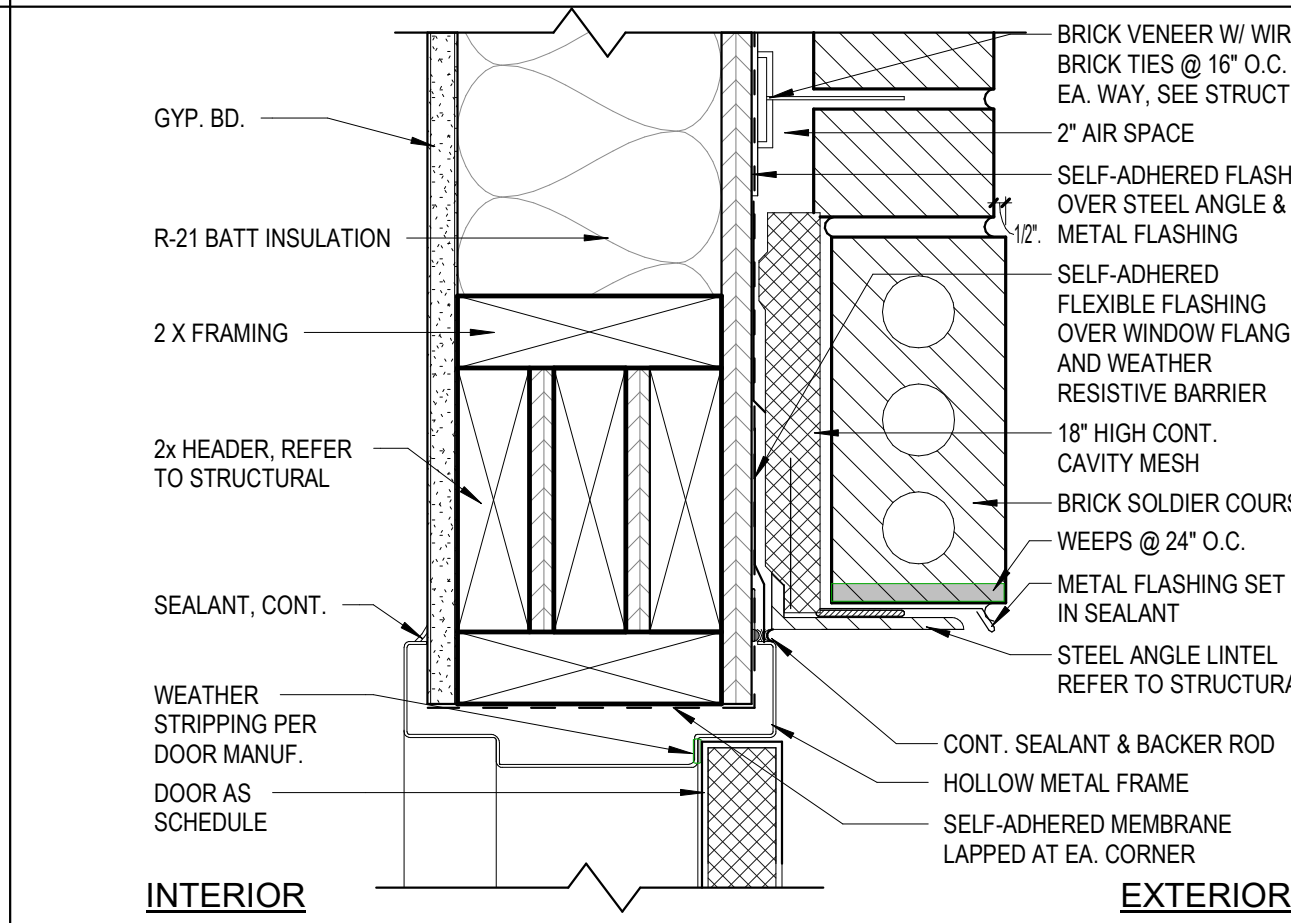
F5 TYPICAL INTERIOR DOOR JAMB DETAIL
3' = 1'-0"



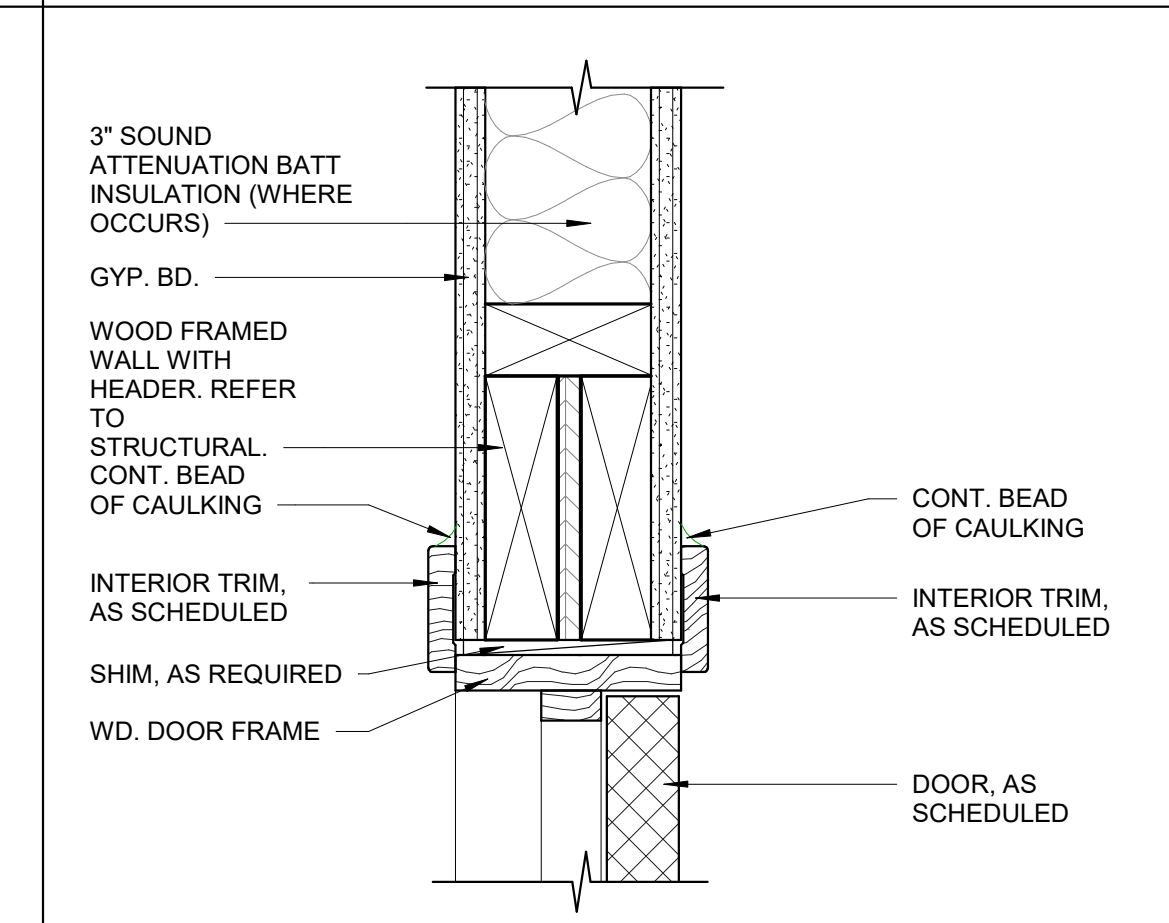
F7 GARAGE DOOR JAMB DETAIL
1 1/2\"/>



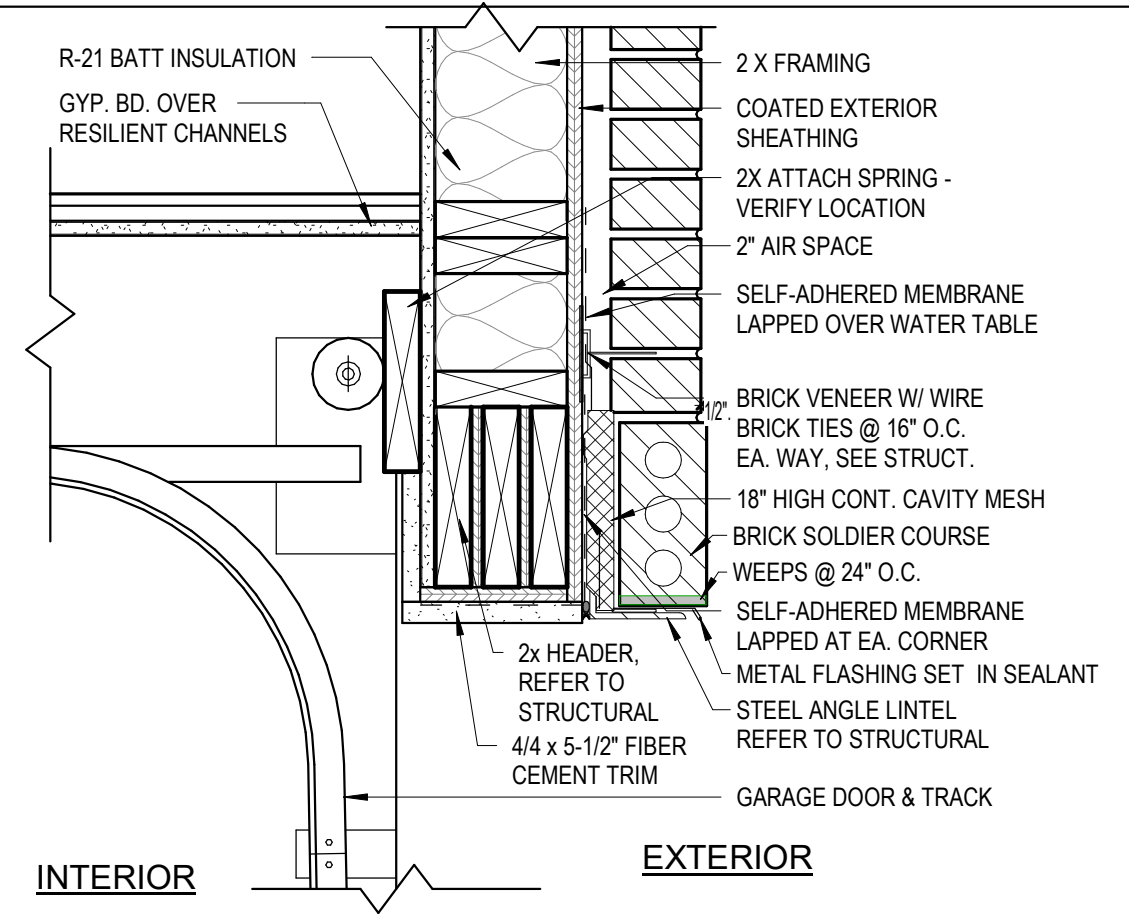
F11 EXT. DOOR JAMB DETAIL - SIDING
3' = 1'-0"



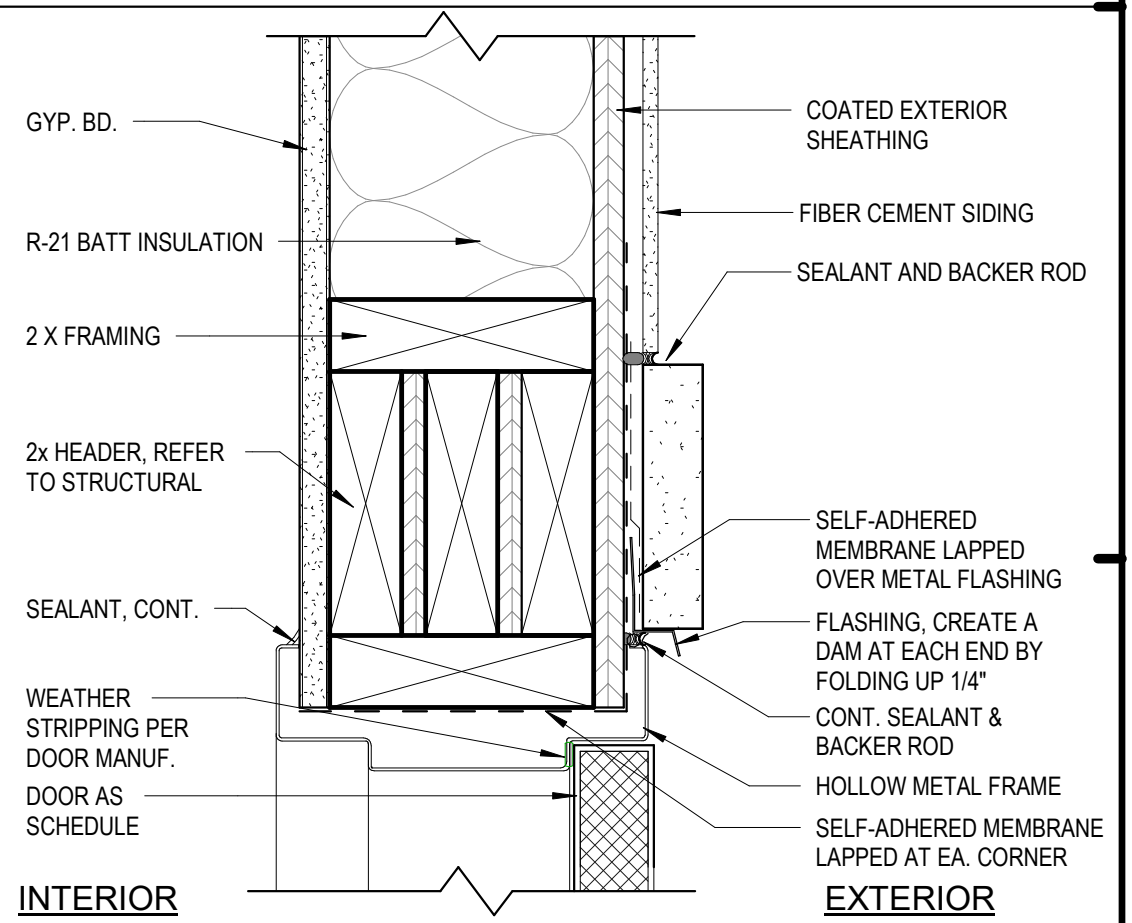
H3 EXT. DOOR HEAD DETAIL - BRICK
3' = 1'-0"



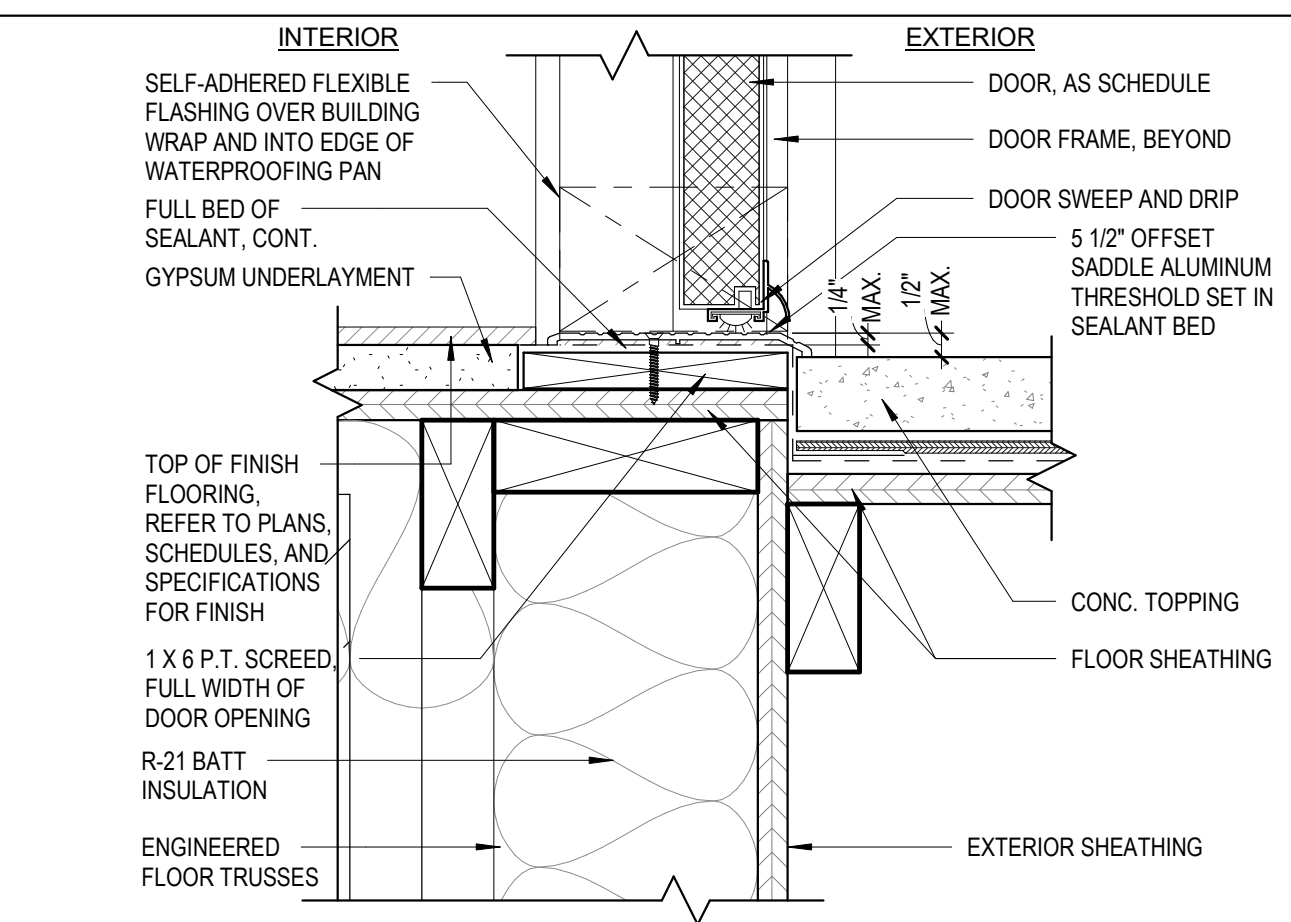
H5 TYPICAL INTERIOR DOOR HEAD DETAIL
3' = 1'-0"



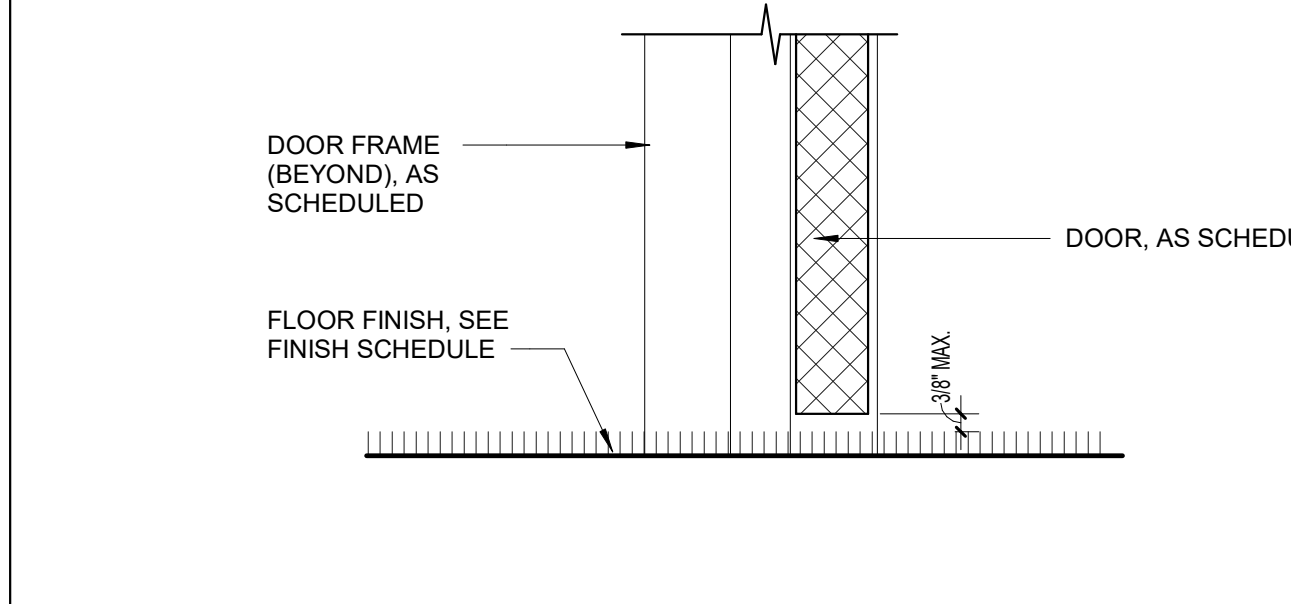
H7 GARAGE DOOR HEAD DETAIL
1 1/2\"/>



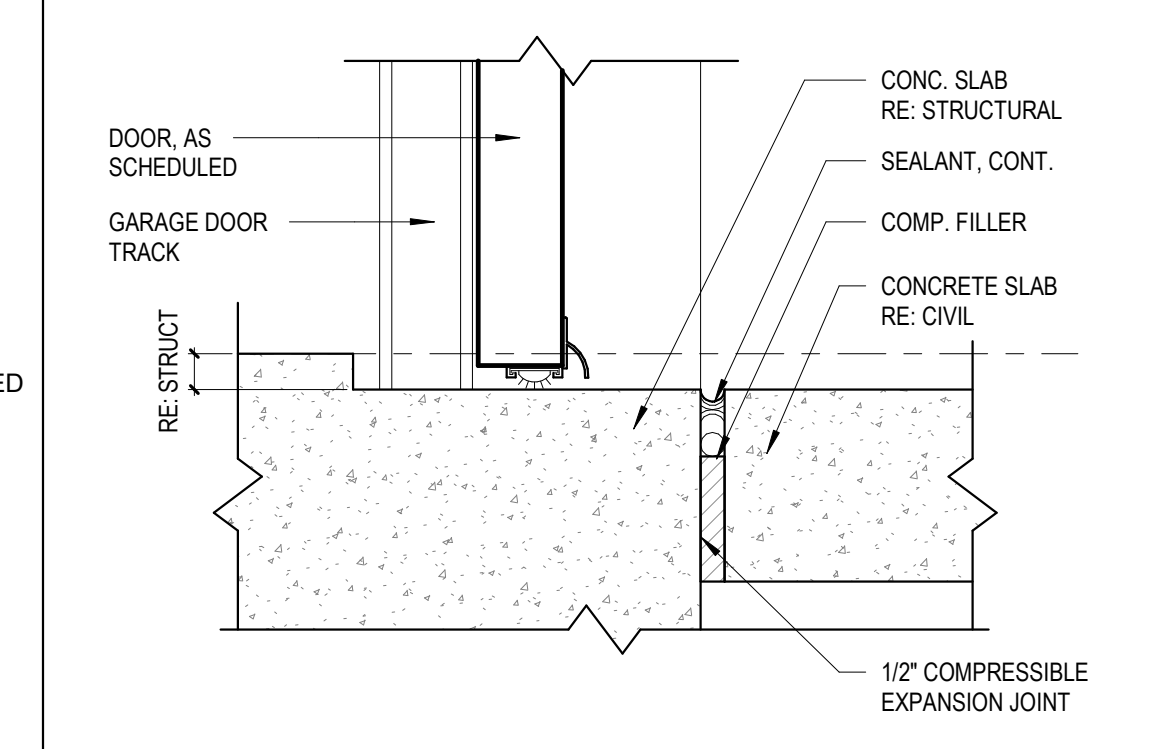
H11 EXT. DOOR HEAD DETAIL - SIDING
3' = 1'-0"



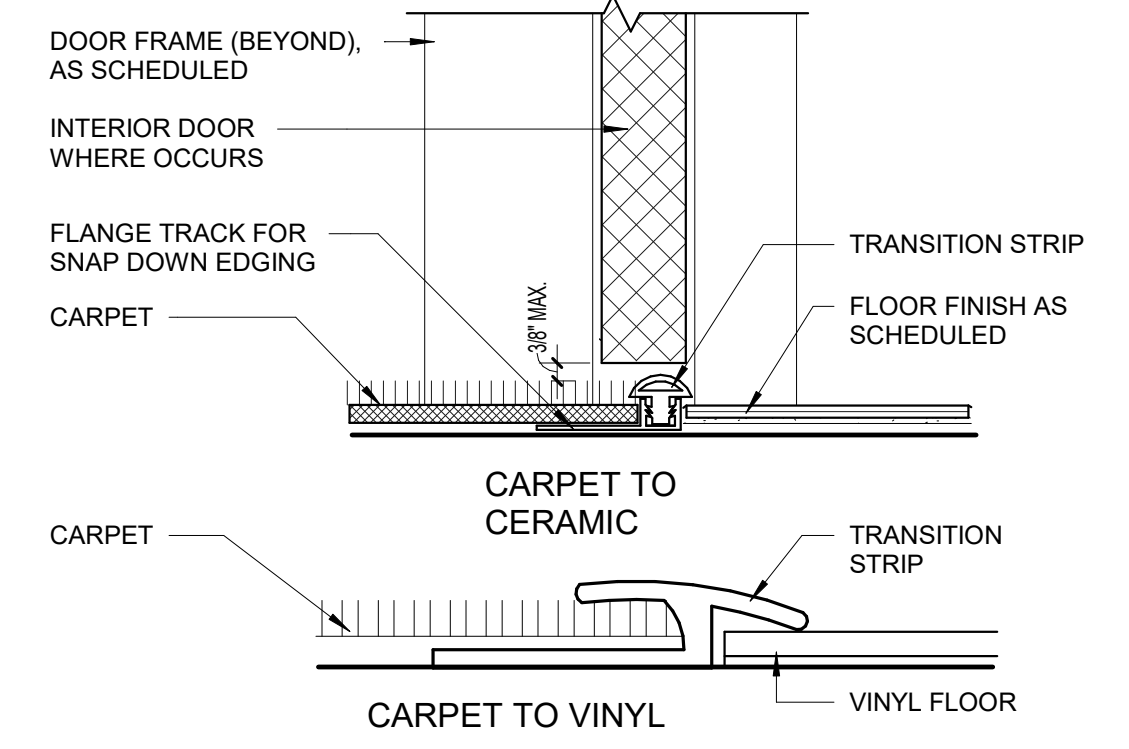
K3 EXT. THRESHOLD DETAIL - BALCONY/STAIR
3' = 1'-0"



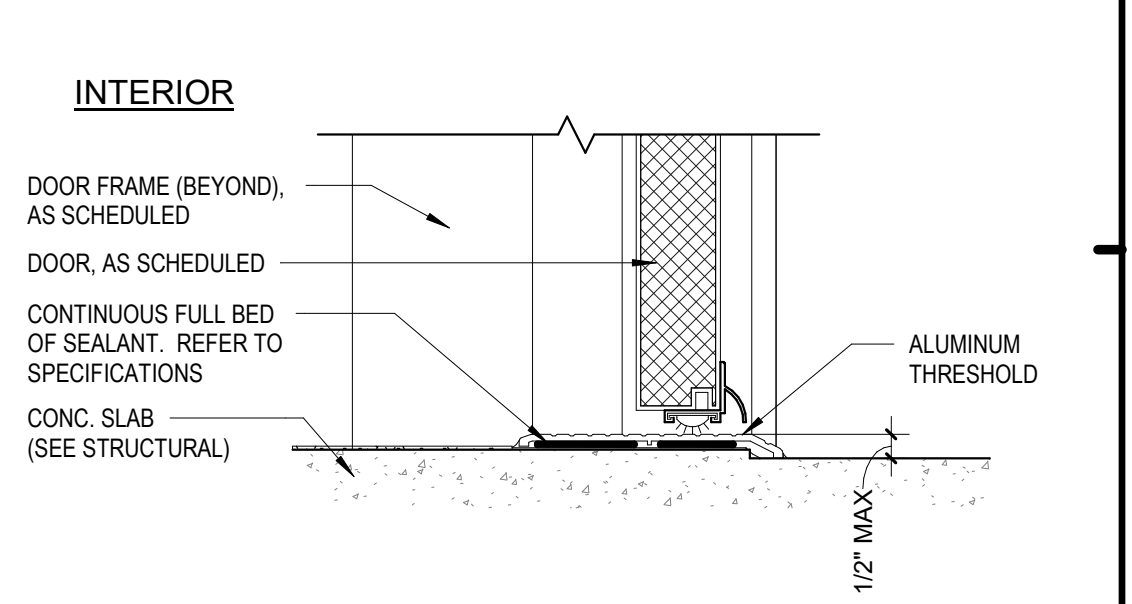
K5 INTERIOR DOOR THRESHOLD DETAIL
3' = 1'-0"



K7 GARAGE DOOR THRESHOLD DETAIL
3' = 1'-0"



K9 EXT. DOOR THRESHOLD CONDITIONS
3' = 1'-0"



K11 EXTERIOR DOOR THRESHOLD DETAIL
3' = 1'-0"

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FUGLEBERG KOCH

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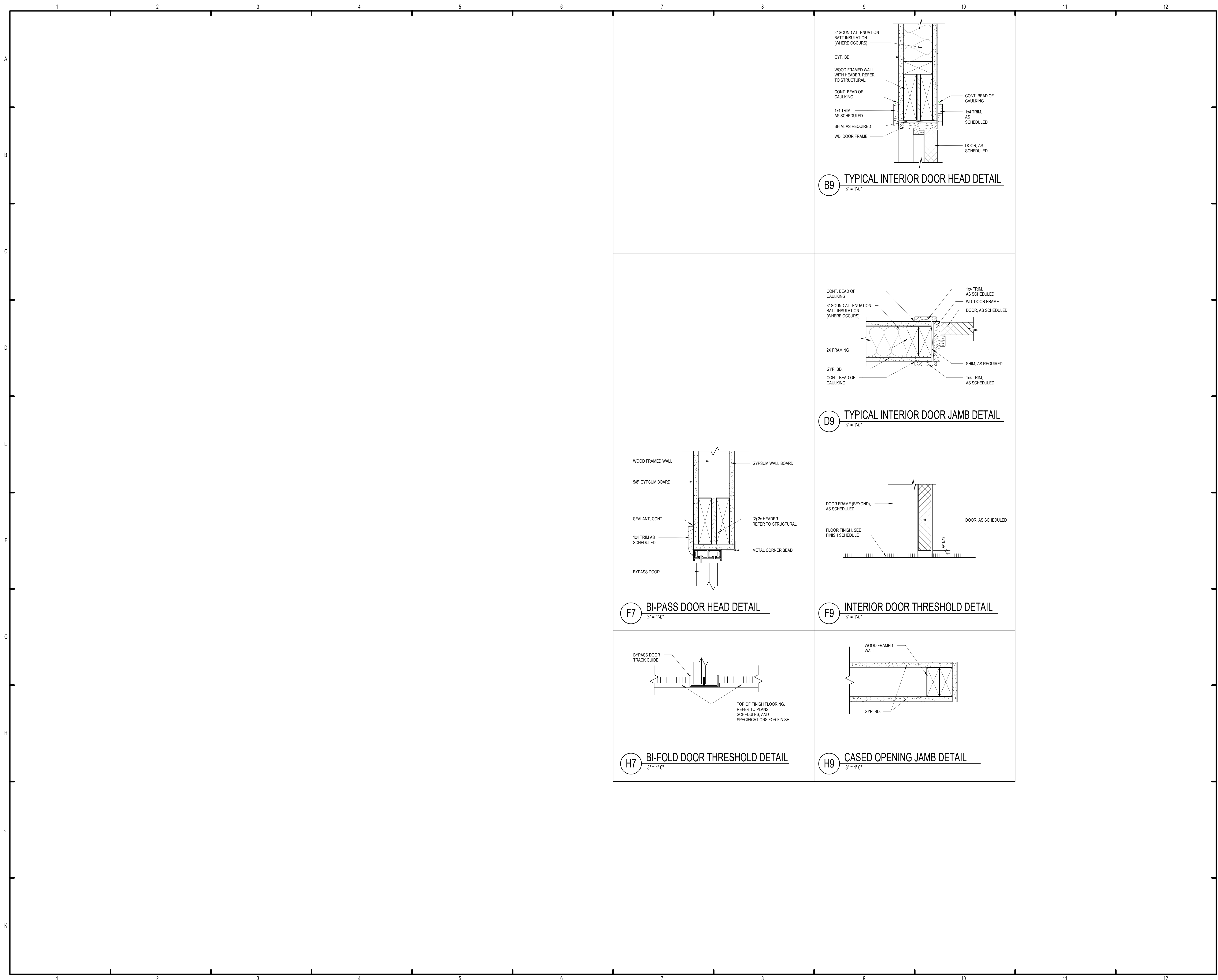
THE ROBERT MADISON

MADISON, ALABAMA

Project # 5722

DOOR SCHEDULE AND DETAILS

A7.01



ISSUE HISTORY		
No.	Date	Description
1	04/15/2022	PERMIT SUBMITTAL
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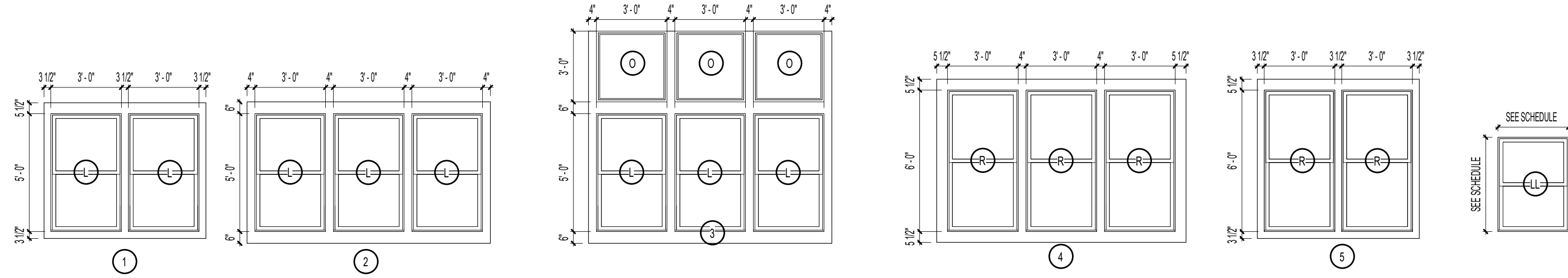
CONSULTANT

 MICHAEL DOVE
 SEA

THE ROBERT MADISON	Drawn: MB
MADISON, ALABAMA	Checked: JK
	Approval: MS
	Date: 04/15/2022
	Project #: 572

DOOR DETAILS
A7.02
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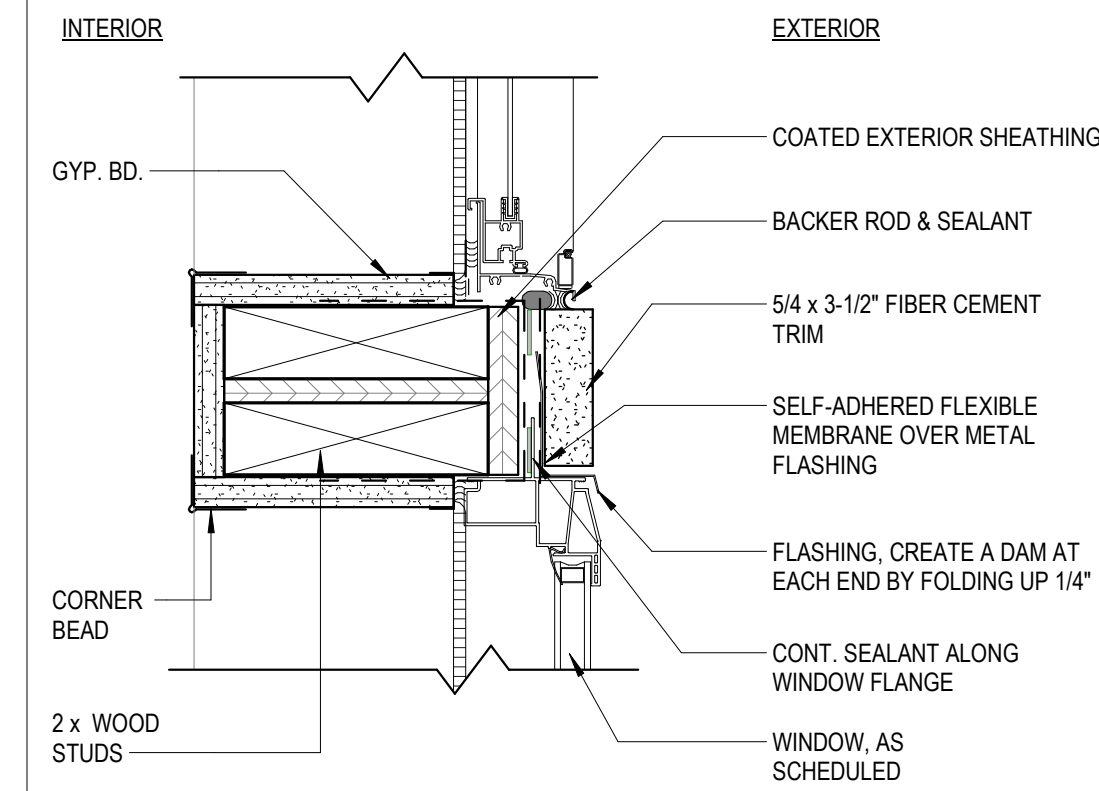
WINDOW SCHEDULE							
TYPE	WINDOW UNIT			GLAZING		FRAME	REMARKS
	WIDTH	HEIGHT	HEAD HEIGHT	THICKNESS	U VALUE	SHGC	
I	3' - 0"	5' - 0"	8' - 0"	1/4" TEMP	.30	.25	HM
L	3' - 0"	5' - 0"	8' - 0"	3/4"	0.34	0.27	VINYL LOW-E
LL	3' - 0"	4' - 0"		3/4"	0.34	0.27	VINYL LOW-E
O	2' - 10"	2' - 10"					
R	3' - 0"	6' - 0"		3/4"	0.34	0.27	VINYL LOW-E
SS	1' - 6"	8' - 0"	8' - 0"				



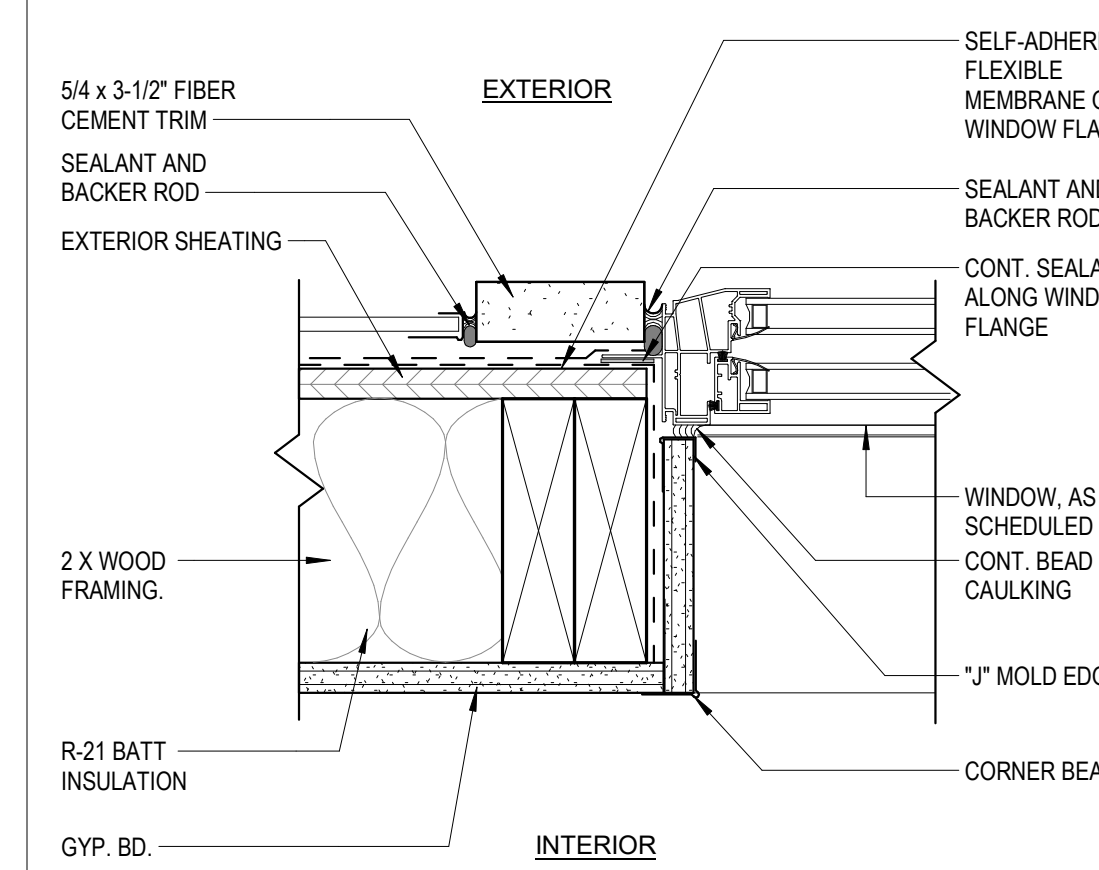
WINDOW TYPES
1/4" = 1'-0"

WINDOW NOTES:

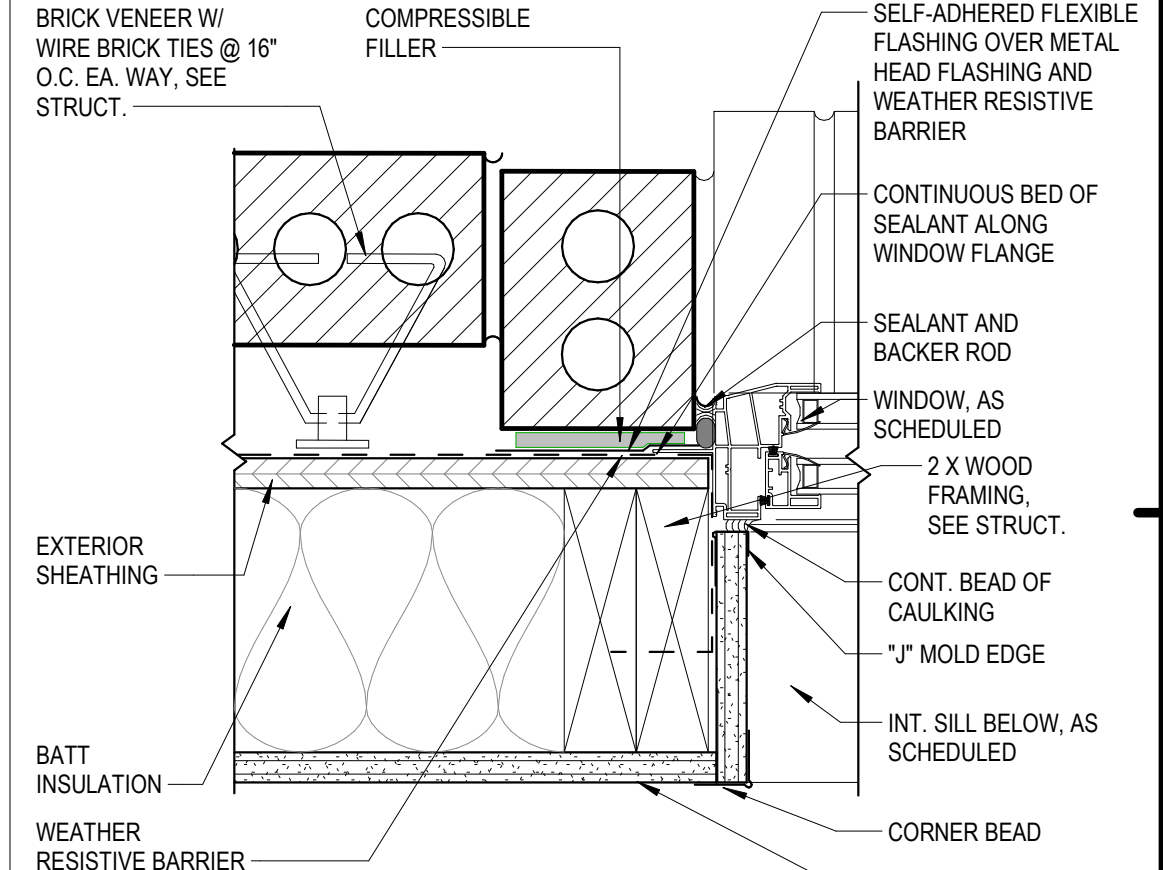
- VERIFY ROUGH OPENING REQUIRED WITH WINDOW MANUFACTURER.
- WINDOW MANUFACTURER SHALL PROVIDE CERTIFICATION, SIGNED AND SEAL BY A REGISTERED ALABAMA PROFESSIONAL THAT:
 - WINDOWS WILL BE ABLE TO WITHSTAND REQUIRED WIND LOADS AND PRESSURE.
 - TO SUPPLY TYPE AND NUMBER OF FASTENERS REQUIRED TO SECURE FRAME TO HEAD, JAMBS & SILL OF ALL WINDOW OPENINGS.
- PROVIDE SEALANT AT ALL SCREW HOLES PROVIDED FOR FASTENING PRIOR TO FASTENER INSTALLATION.
- WINDOWS UNITS SHALL BE ANCHOR THROUGH THE JAMB, ANCHORS SHALL BE SECURELY FASTENED IN TO THE STRUCTURAL MATERIAL.
- PROVIDE TEMPERED GLASS AT ALL WINDOWS LOCATIONS WHERE THE FOLLOWING CONDITIONS EXIST:
 - LOWER SASH IF SILL HEIGHT IS BELOW 18"
 - GLAZING ADJACENT TO A DOOR WHERE THE NEAREST VERTICAL EDGE OF THE GLAZING IS WITHIN A 24 INCH ARC OF EITHER VERTICAL EDGE OF THE DOOR IN A CLOSED POSITION.
 - TOP EDGE GREATER THAN 36" ABOVE THE FINISHED FLOOR.
 - THE EXPOSED AREA OF AN INDIVIDUAL WINDOW PANE IS GREATER THAN 9 SQ. FT.



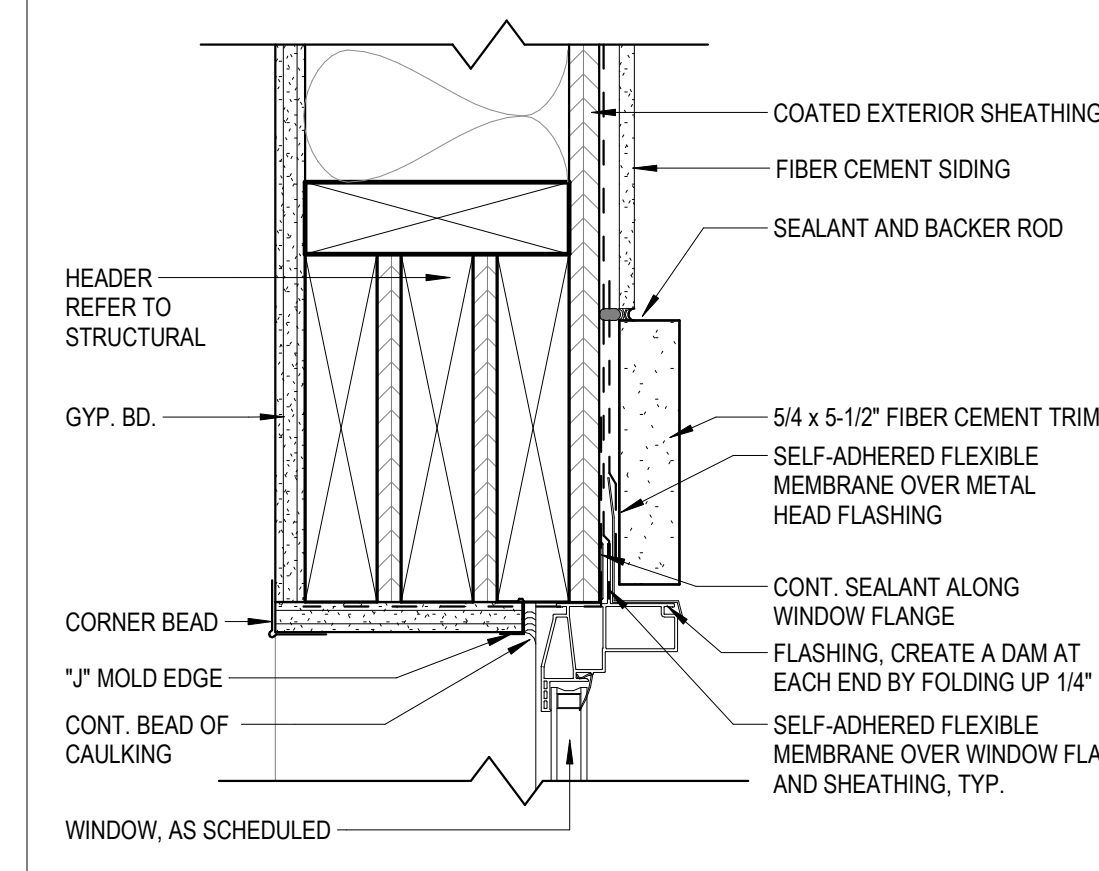
D9 TRANSOM WINDOW HEAD/SILL
3" = 1'-0"



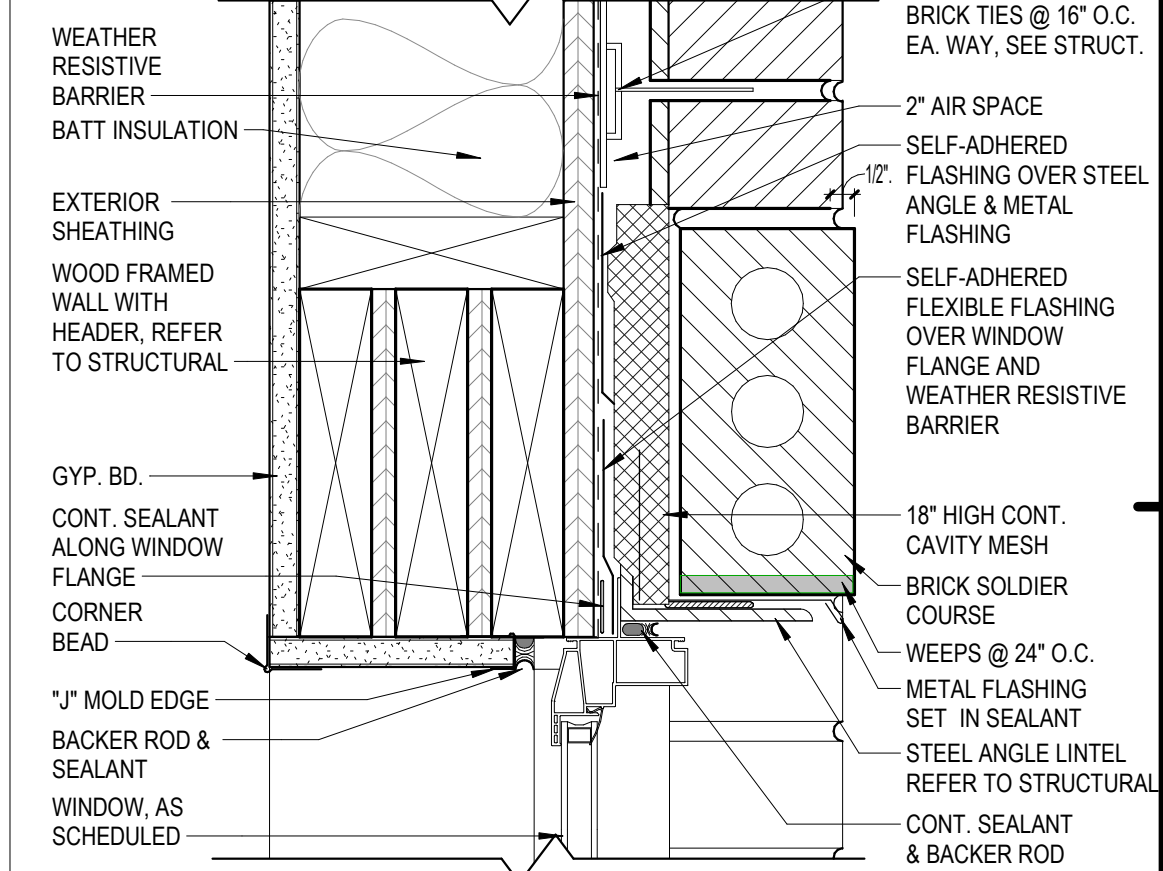
F9 WINDOW JAMB DETAIL AT SIDING
3" = 1'-0"



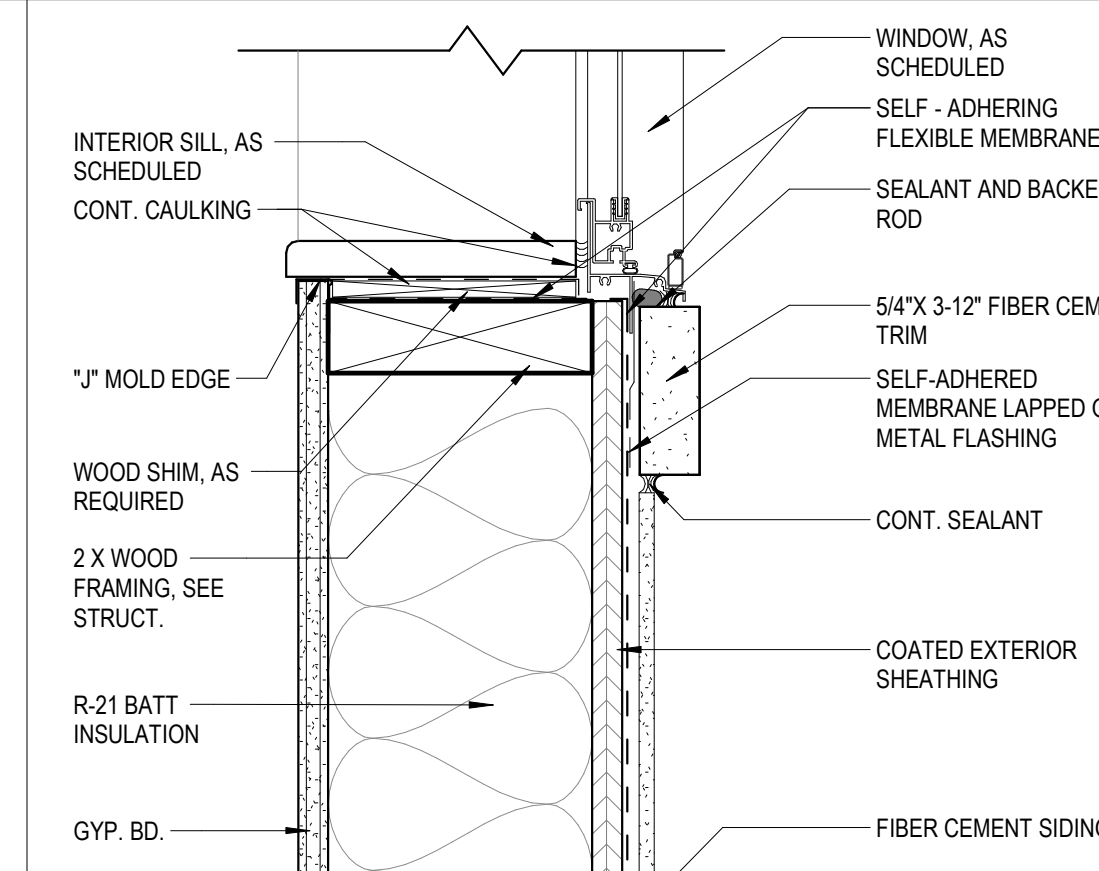
F11 WINDOW JAMB DETAIL AT BRICK
3" = 1'-0"



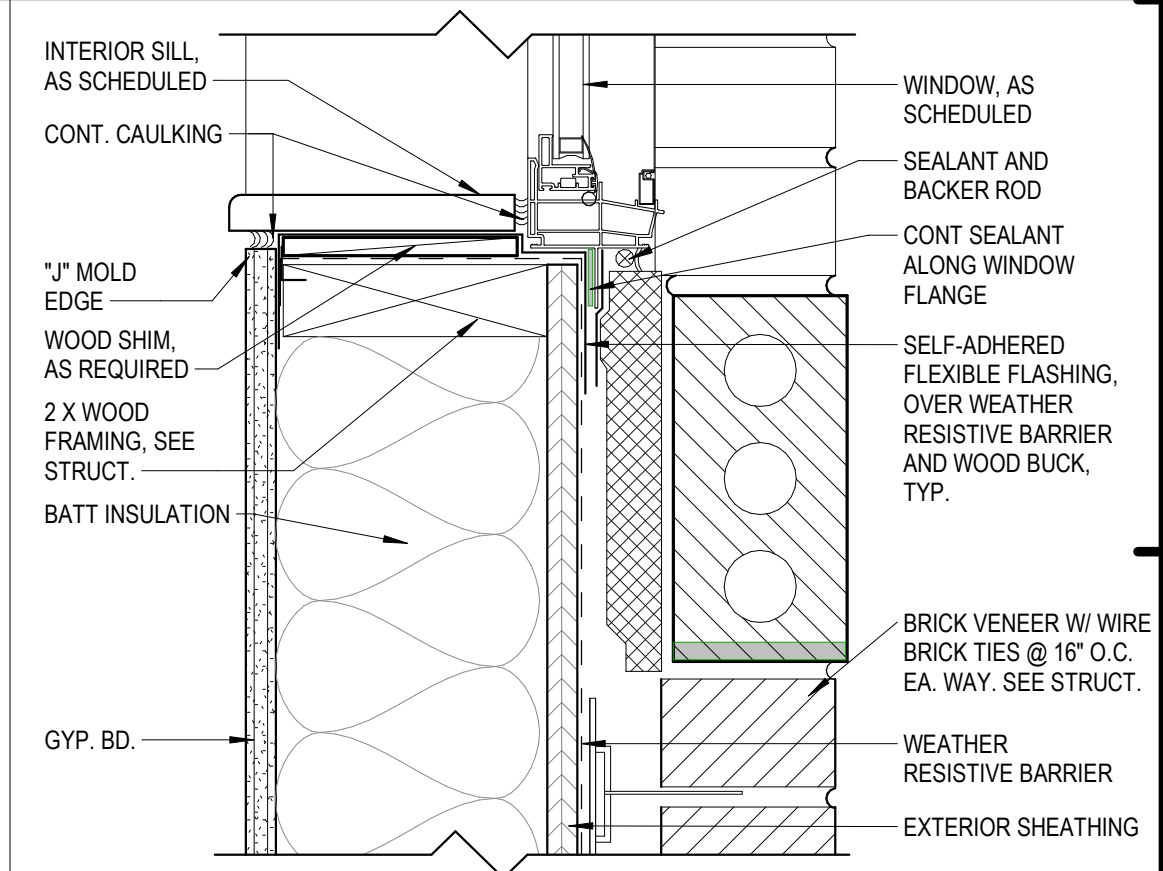
H9 WINDOW HEAD DETAIL AT SIDING
3" = 1'-0"



H11 WINDOW HEAD DETAIL AT BRICK TRIM
3" = 1'-0"



K9 WINDOW SILL DETAIL - SIDING
3" = 1'-0"



K11 WINDOW SILL DETAIL AT BRICK TRIM
3" = 1'-0"

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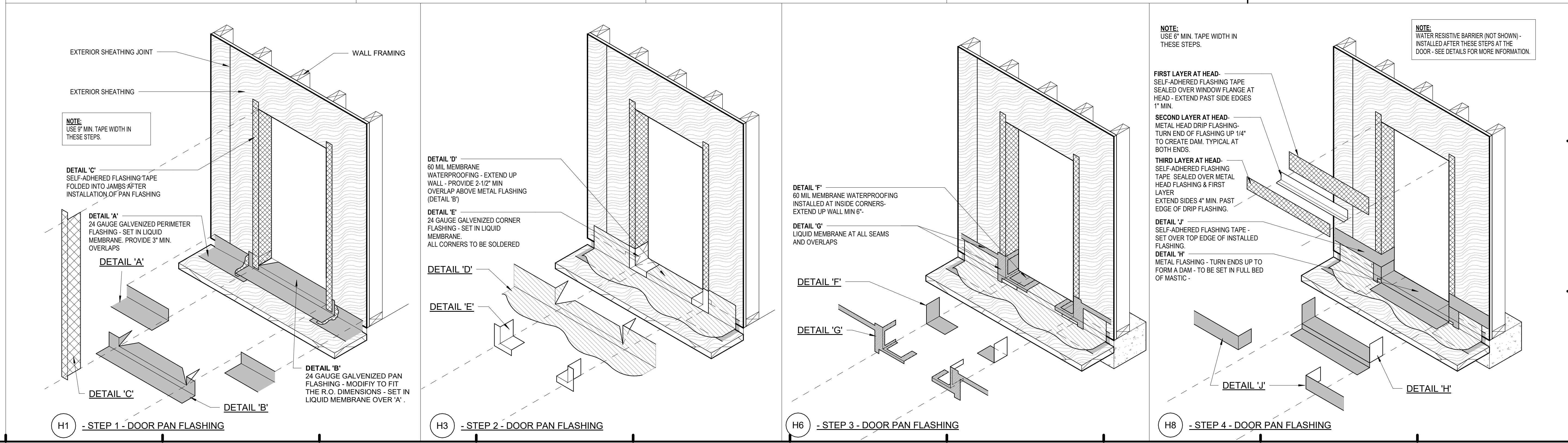
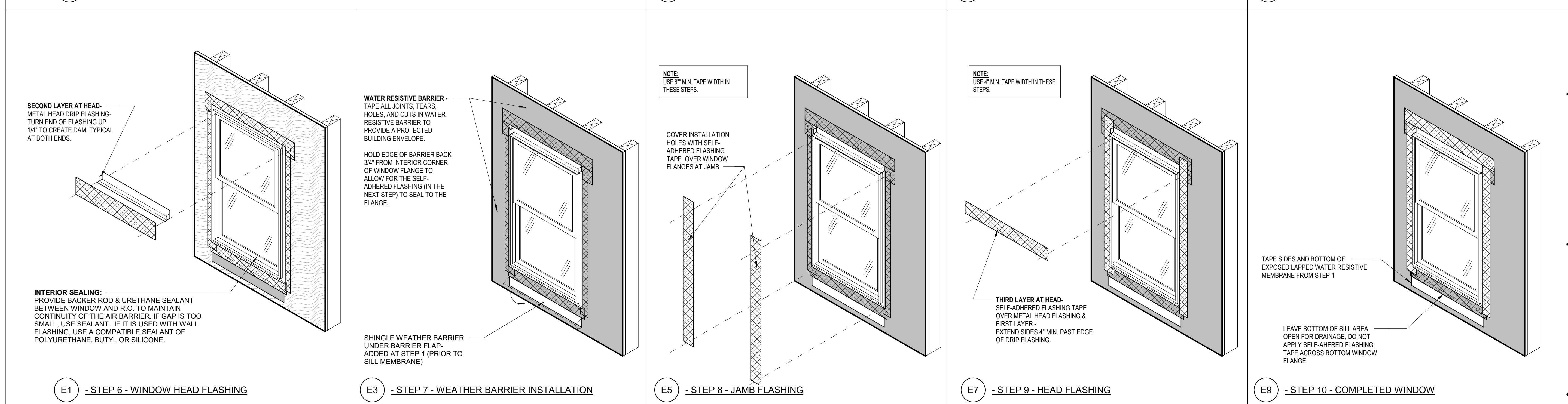
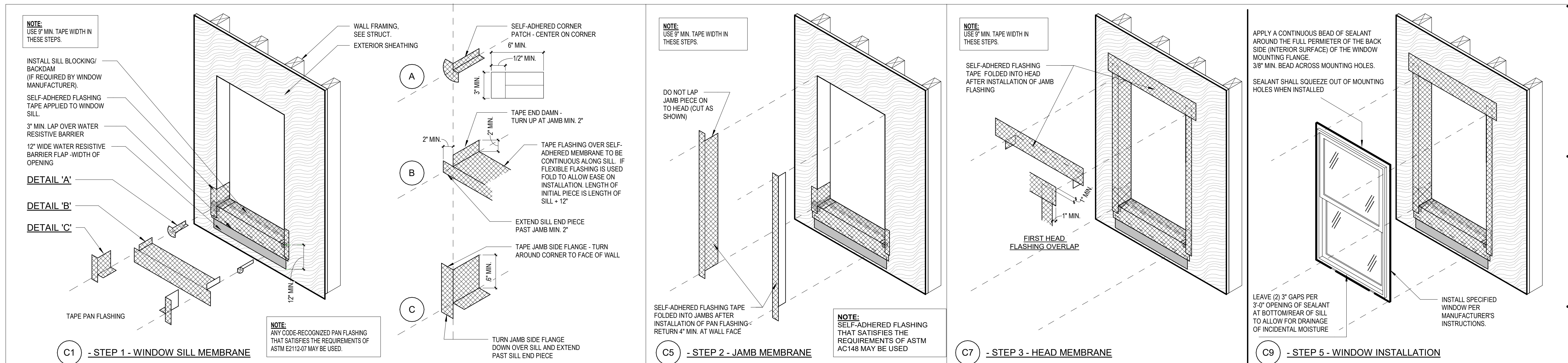


MICHAEL GOIVE
SEAL

THE ROBERT MADISON	Drawn: MS
MADISON, ALABAMA	Checked: JK
	Approval: MS
	Date: 04/15/2022
	Project #: 5722

WINDOW SCHEDULE AND DETAILS

A7.03



ISSUE HISTORY		
No.	Date	Description
1	04/15/2022	PERMIT SUBMITTAL
REVISION HISTORY		
No.	Date	Description

FUGLEBERG KOCH

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CONSULTANT

STATE OF ALABAMA
Professional Seal
8234
4/15/22
REGISTERED ARCHITECT

MICHAEL GOVE
SEA

THE ROBERT MADISON

MADISON, ALABAMA

WINDOW AND DOOR TAPING PROCEDURES

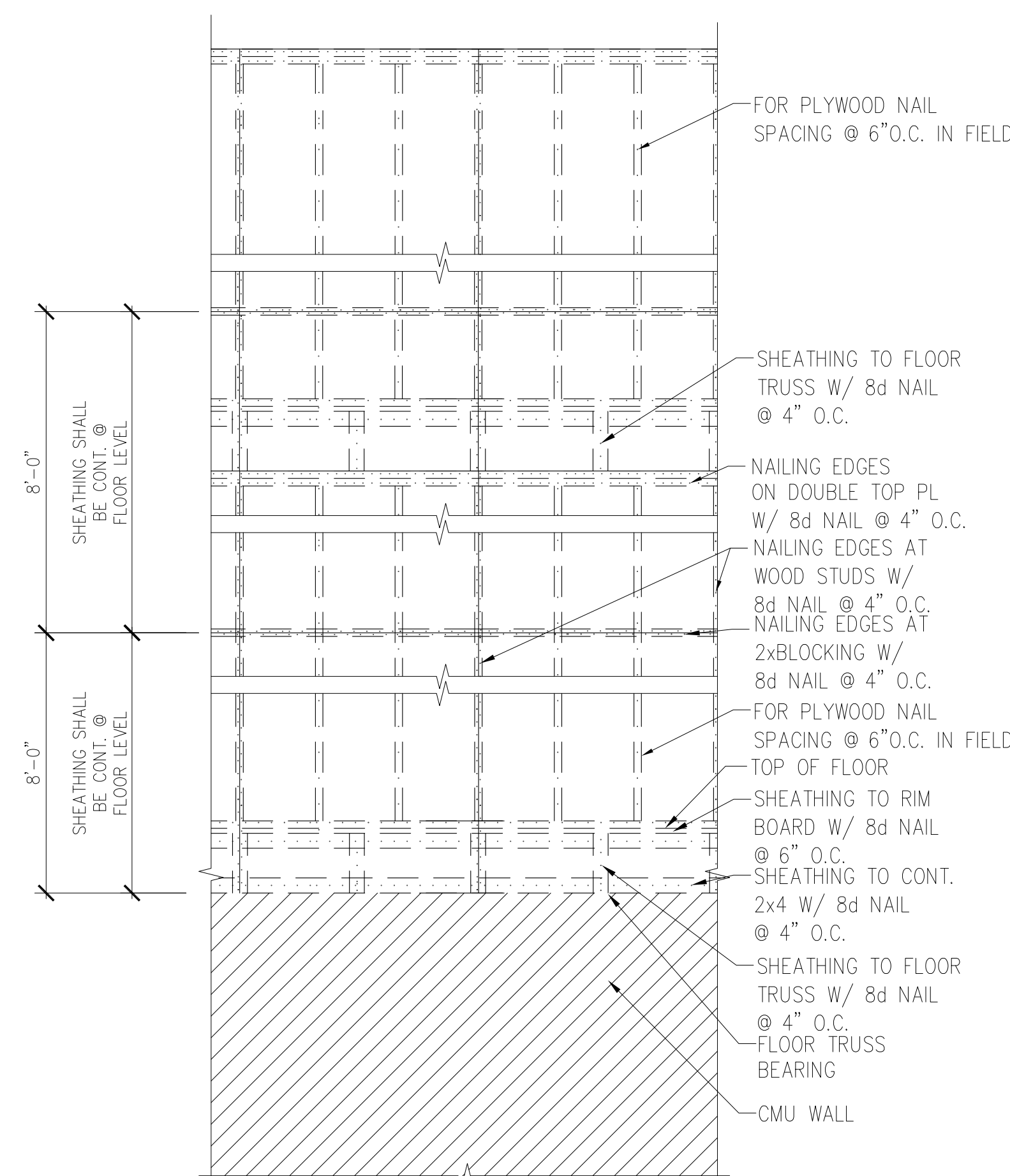
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Drawn: MB
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Project #: 572

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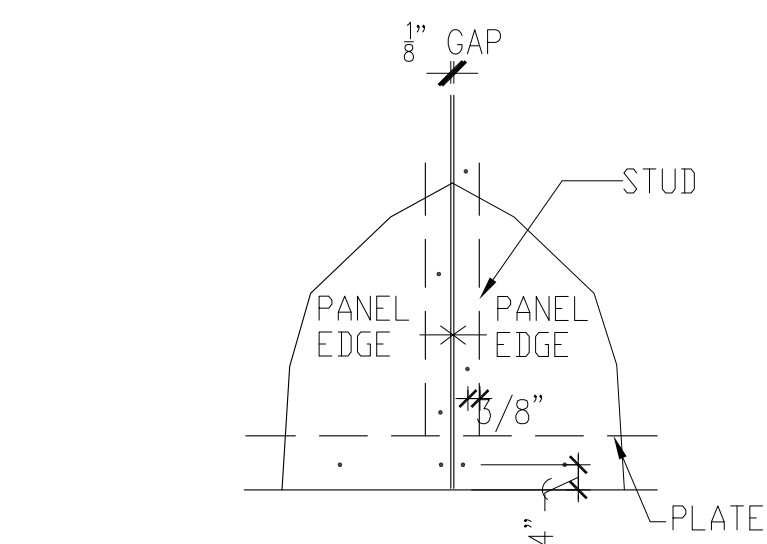
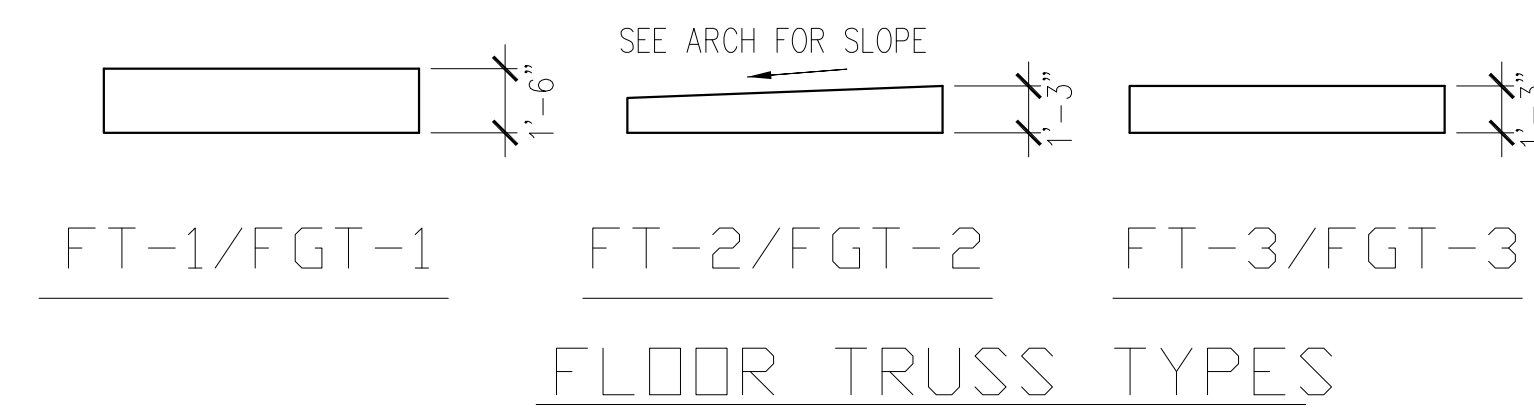
CONNECTOR EQUIVALENT SCHEDULE SIMPSON				
SIMPSON TYP	FASTENERS	UPLIFT (lbs.)	WOOD TO:	USP TYP
MTS16 OR MTS12	(14) 10d x 1-1/2	1000	WOOD	MTW16
HTS20	(24) 10d x 1-1/2	1450	WOOD	HTW20
LTS12	(12) 10d x 1-1/2	775	WOOD	LTW12
H3	(4) 8d	455	WOOD	RT7
LTT20B	(10) 16d INTO STUDS	1750 (NAILS)	CONCRETE, WOOD	LTS20B
HTT16	(18) 16d	4175 (NAILS)	CONCRETE, WOOD	HTT16
SP-1	(10) 10d	585	WOOD (BOT OF STUD)	SPT22
SP-4	(6) 10d x 1-1/2	735	WOOD (TOP OF STUD)	SPT4
THA/THAC TYP	PER SIMPSON CATALOG	PER SIMPSON CATALOG	SELECTION BASE ON TRUSS WIDTH AND HEIGHT	MSH TYP
CS16	(22) 10d	1650	11" MIN AT EA END FOR WOOD	RS150
MAS	(6) 10d x 1-1/2	1005	SLAB, STEMWALL	FA3
HCP2	(12) 10d x 1-1/2	605	FDR 2x MEMBER	N/A
HCP4	(16) 10d	1000	FDR 4x MEMBER	N/A
A35	(12) 8d x 1 1/2	450 SHEAR	WOOD	MPA1
CC44, ECCU44 CC66, ECCU66	(4) 5/8d BOLTS (6) 5/8d BOLTS	1465 (UPLIFT) 3660 (UPLIFT)	ECCU44 AT BEAM END ECCU66 AT BEAM END	KCC44, KCCU44 KCC66, KCCU66
PC/EPC TYP	PER SIMPSON CATALOG	PER SIMPSON CATALOG	SELECTION BASE ON POST AND BEAM WIDTH	PCM/EPCM TYP
ECCL44 ECCL66	BOLTS AS REQ	1465 (UPLIFT) 3660 (UPLIFT)	ECCL44 FOR 4x4 POST ECCL66 FOR 6x6 POST	KECC44 KECC66
ABU44 ABU66	(12) 16d 5/8 ANCHOR BOLT	2200	ABU44 FOR 4x4 POST ABU66 FOR 4x4 POST	PAU44 PAU66
HUC410	(18) 16d FOR WOOD	1510	CONCRETE, MASONRY, WOOD FOR 4x10 BM	HD410IF
HUC412	(22) 16d FOR WOOD	1510	CONCRETE, MASONRY, WOOD FOR 4x12 BM	HD412IF
LUS TYP	PER SIMPSON CATALOG	PER SIMPSON CATALOG	LUS24 FOR 2x6, LUS26 FOR 2x8, LUS28 FOR 2x10, ETC.	JUS TYP

*SUBJECT TO COORDINATION WITH TRUSS ENGINEERING CRITERIA



1 TYP EXTERIOR WALL SHEATHING LAY-OUT
SCALE 3/4" = 1'-0"

- TRUSS NOTES
- TRUSSES SHOWN FOR GENERAL CONFIGURATION ONLY. WEB MEMBERS ARE NOT SHOWN, BUT SHALL BE DESIGNED BY THE TRUSS MANUFACTURER IN ACCORDANCE WITH THE GENERAL NOTES. WORKING POINTS SHALL BE DETERMINED BY THE TRUSS MANUFACTURER.
 - TRUSS MANUFACTURER IS RESPONSIBLE FOR THE DESIGN OF ANY BRIDGING OR BRACING REQUIRED TO BRACE THE TRUSS BOTTOM CHORDS FOR WIND UPLIFT.
 - SEE THE ARCHITECTURAL DRAWINGS FOR ELEVATIONS, OVERHANGS AND BEARING CONDITIONS.
 - THE CONNECTION OF TRUSS TO TRUSS SHALL BE PROVIDED BY THE TRUSS MANUFACTURER.
 - VERIFY TRUSS SLOPE WITH ARCH DRWG PRIOR TO CONSTRUCTION.



- ALL HORIZONTAL & VERTICAL JOINTS SHALL OCCUR OVER FRAMING & SHALL BE ATTACHED IN THE SPACING SHOWN ON GENERAL NOTES. SOLID 2x BLOCKING OR FRAMING MEMBER SHALL BE AT ALL PANEL EDGES.

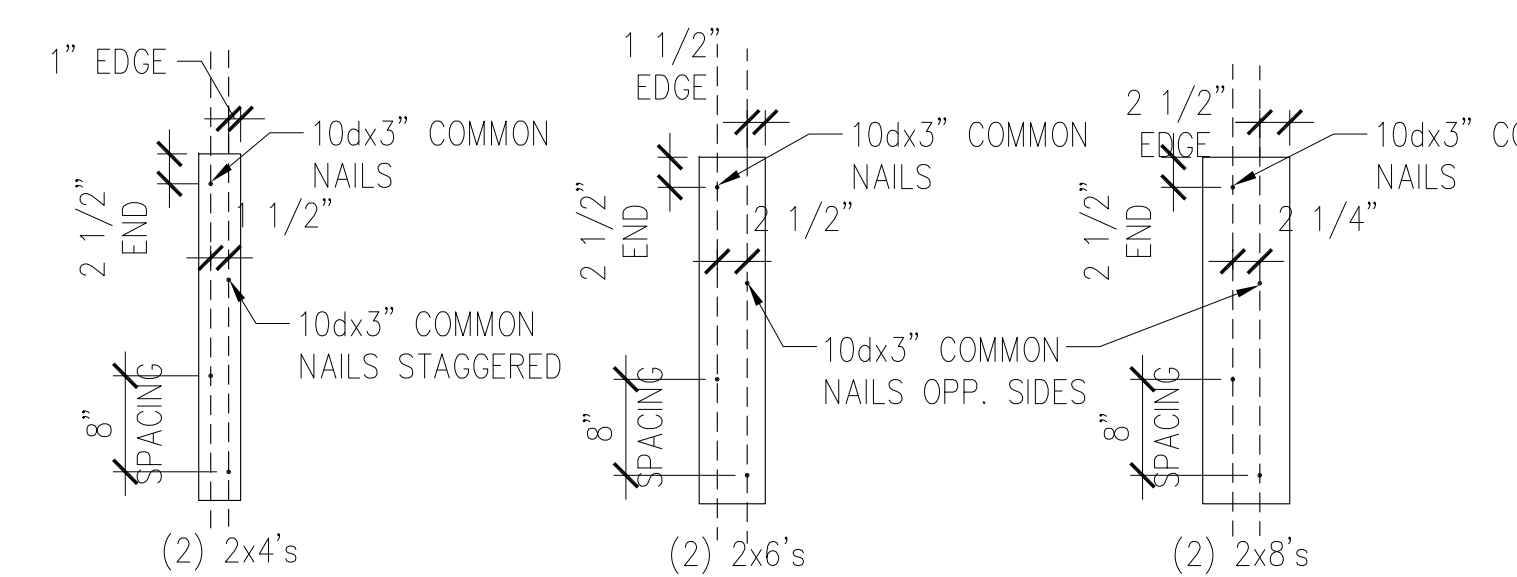
2 SHEATHING JOINT DETAIL
SCALE NTS.

TYPE	SHEATHING				SHEATHING NAILING				FND CONN EACH END OF WALL				FND SIDE PLATE ATTACHMENT		2nd FLOOR CONN EACH END OF WALL				3rd FLOOR CONN EACH END OF WALL				4th FLOOR CONN EACH END OF WALL					
	FND-2nd FLR	2nd-ROOF # 2 STORY	3rd-ROOF # 3 STORY	4th-ROOF # 4 STORY	FND-2nd FLR	2nd-ROOF # 2 STORY	3rd-ROOF # 3 STORY	4th-ROOF # 4 STORY	CONNECTOR	FND BOLTS	ATTACH TO STUDS	REQD STUDS AT END OF WALL	FND SIDE PLATE ATTACHMENT	2nd FLOOR SHEAR BLG	CONNECTOR	NAILS EACH END OF STRAP AT STUD	BOLTS TO STUDS	REQD STUDS AT END OF WALL	3rd FLOOR SHEAR BLG	CONNECTOR	NAILS EACH END OF STRAP AT STUD	BOLTS TO STUDS	REQD STUDS AT END OF WALL	4th FLOOR SHEAR BLG	CONNECTOR	NAILS EACH END OF STRAP AT STUD	BOLTS TO STUDS	REQD STUDS AT END OF WALL
1	7/16" C-D PLYWD *2	7/16" C-D PLYWD *2	7/16" C-D PLYWD *2	7/16" C-D PLYWD *2	8d NAILS # 4" OC	8d NAILS # 4" OC	8d NAILS # 6" OC	8d NAILS # 6" OC	HD7B	7/8" DIA	3-3/4" DIA BOLTS	@ 2x4	1/2" DIAx 7" EMB. A. BOLTS @ 24" OC	N/A	@ C320x40	18-10d	N/A	@ 2x4	N/A	@ C320x40	18-10d	N/A	@ 2x4	N/A	@ C320x40	18-10d	N/A	@ 2x4
2	5/8" GYPSUM WALLBOARD	5/8" GYPSUM WALLBOARD	5/8" GYPSUM WALLBOARD	5/8" GYPSUM WALLBOARD	6d COOLER NAILS # 4" OC	6d COOLER NAILS # 4" OC	6d COOLER NAILS # 6" OC	6d COOLER NAILS # 6" OC	HD5B	5/8" DIA	2-3/4" DIA BOLTS	@ 2x4	1/2" DIAx 7" EMB. A. BOLTS @ 24" OC	N/A	@ C320x40	18-10d	N/A	@ 2x4	N/A	@ C320x40	18-10d	N/A	@ 2x4	N/A	@ C320x40	18-10d	N/A	@ 2x4
3	7/16" C-D PLYWD *3	7/16" C-D PLYWD *3	7/16" C-D PLYWD *3	7/16" C-D PLYWD *3	8d NAILS # 4" OC	8d NAILS # 4" OC	8d NAILS # 6" OC	8d NAILS # 6" OC	HD9B	7/8" DIA	3-7/8" DIA BOLTS	@ 2x6	1/2" DIAx 7" EMB. A. BOLTS @ 24" OC	N/A	@ C320x40	18-10d	N/A	@ 2x6	N/A	@ C320x40	18-10d	N/A	@ 2x6	N/A	@ C320x40	18-10d	N/A	@ 2x6

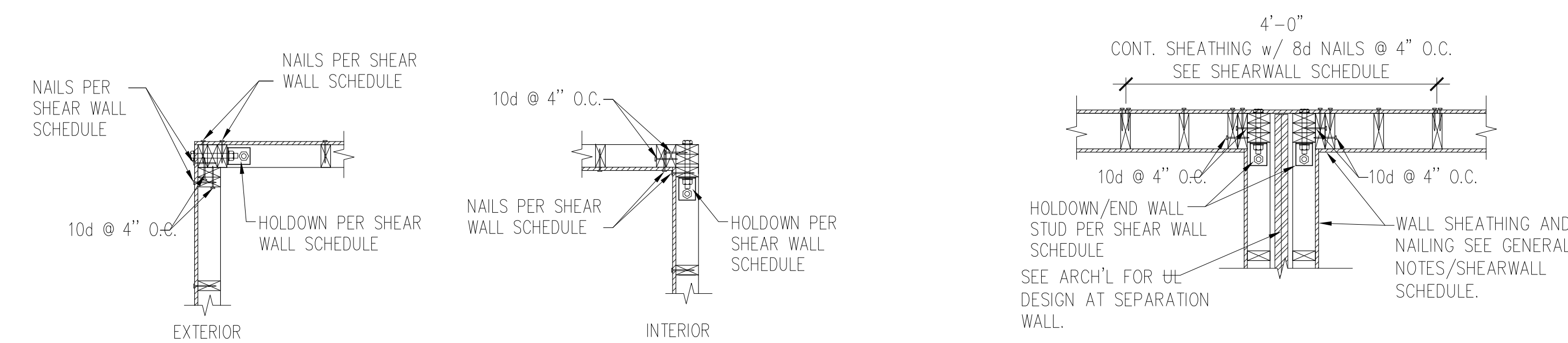
- SHEATH BOTH FACES OF WOOD BEARING WALL. PROVIDE SOLID BLOCKING AT ALL SHEET EDGES, AND AT 4'-0" O.C. MAXIMUM BETWEEN STUDS. 7/16" O.S.B. SUBSTITUTION IS ACCEPTABLE IN LIEU OF C-D PLYWOOD.
- THIS IS AN INTERIOR PARTY WALL, WITH SHEATHING ON ONE FACE ONLY. PROVIDE THE SHEARWALL SHEATHING SCHEDULED APPLIED DIRECTLY TO THE STUDS WITH THE SCHEDULED NAILING PATTERN.
- SHEATH EXTERIOR FACE WITH SHEARWALL SCHEDULED, AND THE INTERIOR FACE OF STUDS AS SPECIFIED IN THE GENERAL NOTES FOR INTERIOR WALLS. 7/16" O.S.B. SUBSTITUTION IS ACCEPTABLE IN LIEU OF C-D PLYWOOD.
- ALL ANCHOR BOLTS SHALL HAVE 2" DIA WASHERS.

NOTES:

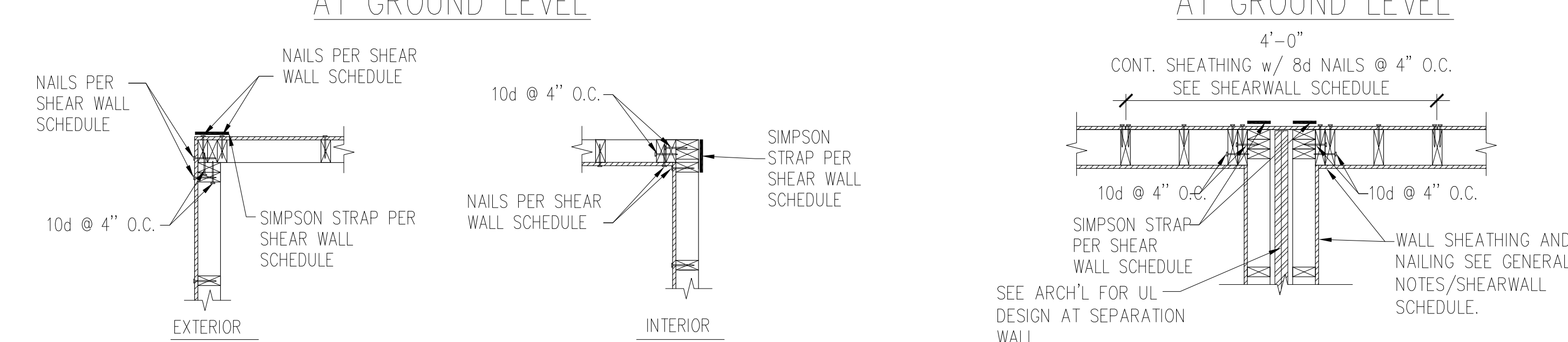
- ALL HD, MAS, AND CS FASTENERS ARE AS MANUFACTURED BY THE SIMPSON STRONG-TIE COMPANY, INC., OR EQUAL.
- WHERE SCHEDULED ADDITIONAL STUDS AT THE ENDS OF SHEAR WALLS ARE INTERRUPTED AT TRUSS BEARING, PROVIDE SOLID BLOCKING IN THE TRUSS SPACE TO MATCH THE STUDS SCHEDULED FOR THE LOWER FLOOR.
- WHERE SCHEDULED SHEATHING CANNOT EXTEND FULL HEIGHT OF WALL, PROVIDE SHEATHING OR BLOCKING BETWEEN FLOOR TRUSSES AT ALL SHEARWALLS.
- SHEATHING SHALL EXTEND FULL HEIGHT OF SHEARWALLS. STAGGER SHEATHING HORIZONTAL JOINTS SO THEY DO NOT FALL AT HORIZONTAL JOINT BETWEEN DOUBLE TOP PLATES.
- WHEREVER THE SHEATHING OF A SHEAR WALL IS INTERRUPTED (I.E. BY AN INTERSECTING WALL) IN THE VERTICAL PLANE, THE SCHEDULED "ADD'L STUD AT END OF WALL" AND HOLDDOWN ANCHORS SHALL BE PROVIDED AT THE END OF THE SHEATHING (ONE EACH SIDE OF THE INTERRUPTION). THE QUANTITY OF SHEARWALL CALLOUTS ON THE PLANS MAY NOT ACCURATELY REFLECT THE NUMBER OF HOLDDOWNS REQUIRED BECAUSE OF THIS. THE CONTRACTOR MUST FIRST DETERMINE WHERE THE SHEARWALL SHEATHING WILL BE INTERRUPTED BEFORE DETERMINING THE NUMBER HOLDDOWNS REQUIRED.
- WHERE BOLTS ARE CALLED OUT FOR HOLDDOWN ANCHORS, THE BOLTS SHALL BE THROUGH BOLTS CONFORMING TO ASTM A307.
- 7/16" O.S.B. MAY BE USED IN LIEU OF THE 7/16" C-DX PLYWOOD SHEATHING EXCEPT FOR ROOF TRUSS SHEATHING.
- ANCHOR BOLTS SHALL ALL HAVE 3" HOOKS. A36 ALL THREAD RODS, DRILLED AND EPOXY SET INTO FOOTINGS, MAY BE SUBSTITUTED FOR ANCHOR BOLTS CAST IN PLACE. ALL THREAD RODS SHALL HAVE SAME EMBEDMENT DEPTH AS ANCHOR BOLTS.



3 2x BUILT-UP STUD COLUMN DETAILS
SCALE NTS.



4 TYP. SHEARWALL CORNER HOLDDOWN
SCALE NTS.



5 TYPICAL SHEATHING AT TENANT SEPARATION WALL
SCALE NTS.

ISSUE HISTORY

No.	Date	Description
1	04/15/22	PERMIT SUBMISSION

REVISION HISTORY

No.	Date	Description
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Certificate of Authorization No. 25873

Wynif Hu P.E.
Alabama No. 26852

THE ROBERT MADISON
MADISON, ALABAMA

Drawn: CW
Checked: CW
Approval: MX
Date: 02-20-22
Project #: XXX-XXX

GENERAL NOTES
BLDG TYPES A, B & C

S0.02

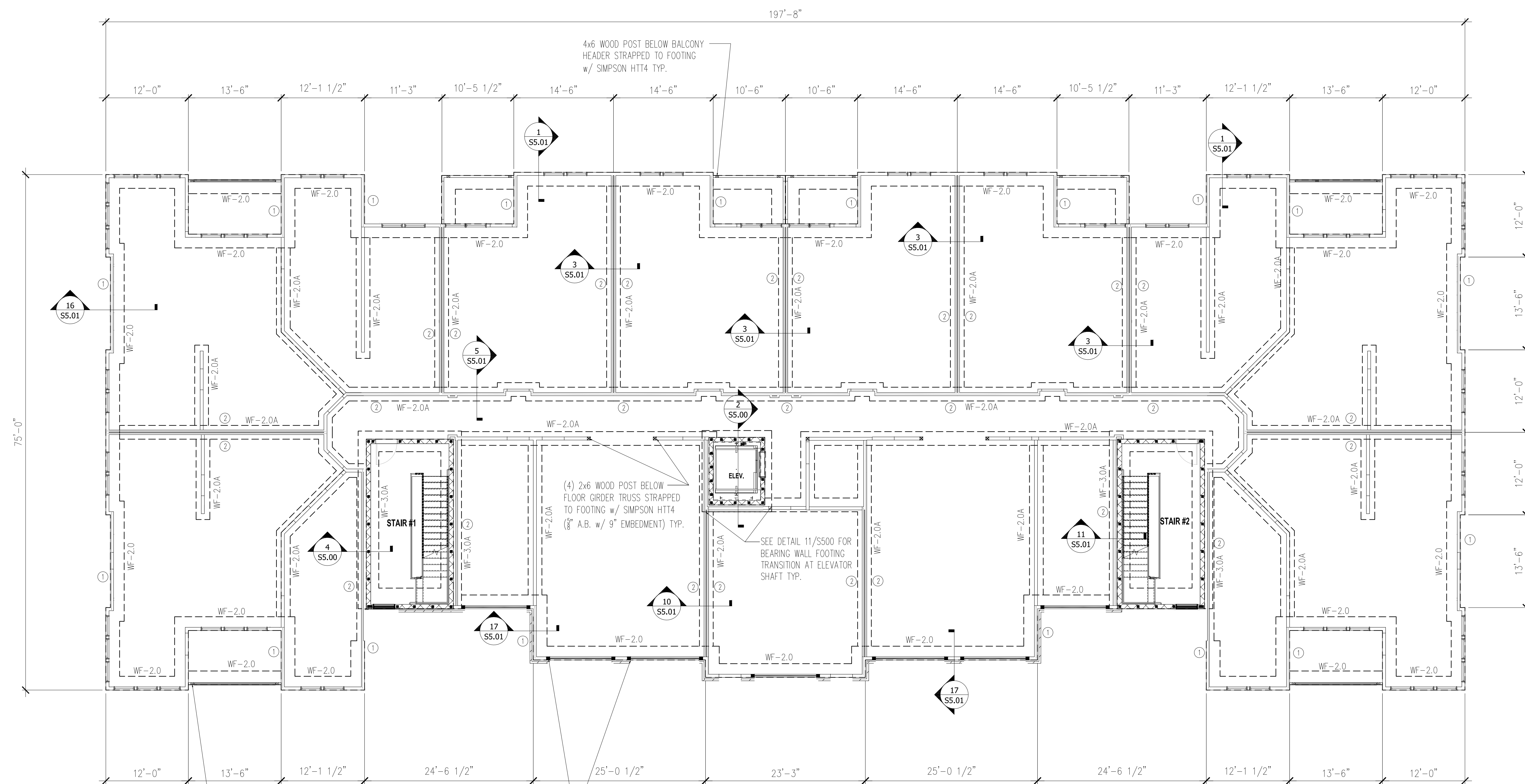
PLOTTED:



PLAN NOTES:

- 1 SEE GENERAL NOTES ON SHEETS S0.01 & S0.02.
- 2 DO NOT SCALE DRAWINGS. SEE ARCH'L. DRAWINGS FOR ADDITIONAL DIMENSIONS NOT SHOWN, VERIFY ALL DIMENSIONS WITH ARCH'L. DRAWINGS PRIOR TO START OF CONSTRUCTION. IF DISCREPANCIES SHOULD OCCUR - CONTACT THE ARCHITECT IN WRITING FOR CLARIFICATION BEFORE PROCEEDING.
- 3 4" (TOTAL) CONCRETE SLAB REINFORCED WITH 6x6-WL4xW1.4 W.W.F. OVER 10 MIL VAPOR BARRIER ON COMPACTED SUBGRADE. COORDINATE ALL SLAB SLOPES, DEPRESSIONS AND LIMITS THERE OF WITH ARCH'L. DRAWINGS (FOR ACTUAL TOP OF SLAB ELEVATIONS, SEE ARCH'L. AND / OR CIVIL DRAWINGS)
- 4 PRIOR TO CONCRETE PLACEMENT PROVIDE TERMITE SOIL TREATMENT WITH TEN YEAR WARRANTY AND FOUR ANNUAL INSPECTIONS AND RENEWALS. SEE ARCHITECTURAL FOR REQUIREMENT.
- 5 ○ INDICATES WOOD STUD SHEAR WALL TYPE, AND SHADING INDICATES EXTENT OF SHEAR WALL. SEE THE SHEAR WALL SCHEDULE ON SHEET S0.02 FOR SHEAR WALL INFORMATION.
- 6 THE MAX. SPACING OF CONTROL JOINT FOR ENCLOSURE SPACE SHALL BE 20'-0" O.C., AND FOR OPEN SPACE SHALL BE 8'-0" O.C. COORD. W/ FLOOR COVERING PLACEMENT. SEND SUBMITTAL TO ARCHITECT FOR REVIEW.
- 7 SEE ARCH'L. DRAWINGS FOR LOCATIONS / LIMITS AND CONSTRUCTION INFORMATION OF INTERIOR NON-BEARING PARTITION WALLS NOT SHOWN ON PLAN. SEE GENERAL NOTES.
- 8 COORDINATE ALL SLAB (TOPPING) SLOPES AND DEPRESSIONS WITH ARCH'L. DRAWINGS. (FOR ACTUAL TOP OF SLAB ELEVATIONS, SEE ARCH'L. DRAWINGS)
- 9 SEE MECHANICAL DRAWINGS FOR LOCATION (ON PLANK) OF MECHANICAL UNITS. H.C. MANUFACTURER / SUPPLIER TO DESIGN FOR UNIT WEIGHT. AS REQUIRED VERIFY WEIGHTS WITH MECHANICAL DRAWINGS.
- 10 ■■■■■ INDICATES MASONRY BEARING WALLS REINFORCED WITH (1)-#5 VERTICAL GROUT FILLED CELLS SOLID AT ALL CORNERS, ADJACENT MASONRY OPENINGS AND 24" O.C. (MAX) .
- 11 SEE 16&17/S5.02 FOR THE 2x BLOCKING BETWEEN BEARING WALL FLOOR LEVEL.

MARK	SIZE	REINFORCEMENT BOTTOM	NOTES
	WIDTH x LENGTH x DEPTH		
WF-1.0	1'-0"xCONT.x2'-2"	(2)-#5's CONT.	
WF-1.5A	1'-6"xCONT.x1'-0"	(2)-#5's CONT. #4's @ 48" O.C. TRANSVERSE	
WF-1.5	1'-6"xCONT.x2'-2"	(2)-#5's CONT. #4's @ 48" O.C. TRANSVERSE	
WF-2.0	2'-0"xCONT.x2'-2"	(2)-#5's CONT. #4's @ 48" O.C. TRANSVERSE	TYP. EXTERIOR WOOD WALL FOOTING
WF-2.0A	2'-0"xCONT.x1'-0"	(3)-#5's CONT. #4's @ 48" O.C. TRANSVERSE	TYP. INTERIOR WOOD WALL FOOTING
WF-3.0	3'-0"xCONT.x2'-2"	(3)-#5's CONT. #4's @ 48" O.C. TRANSVERSE	TYP. EXTERIOR CMU WALL FOOTING
WF-3.0A	3'-0"xCONT.x1'-0"	(3)-#5's CONT. #4's @ 48" O.C. TRANSVERSE	TYP. INTERIOR CMU WALL FOOTING
F-2.5A	2'-6"x2'-6"x1'-0"	(3)-#5's EA WAY	
F-2.5	2'-6"x2'-6"x2'-2"	(3)-#5's EA WAY	



FOUNDATION PLAN
SCALE: 1/8" = 1'-0"

ISSUE HISTORY		
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No.	Date	Description

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CONSULTANT

ASE ENGINEERING SERVICES, INC.

STRUCTURAL DESIGN GROUP
I am the sole proprietor of ASE Engineering Services, Inc. and I am the only person qualified to sign and seal the drawings and specifications shown on these drawings. I am a duly licensed Professional Engineer in the State of Florida, License No. 25873. My office is located at 10244 East Colonial Drive, Suite 202, Orlando, Florida 32817 - 407-677-5661 Fax 407-730-2999. Certificate of Authorization No. 25873.

Wenji Hu P.E.
Alabama No. 28652

Drawn	CW
Checked	CW
Approved	MX
Date	02-20-22
Project #	XXXX-XXX

**BUILDING TYPE B
FOUNDATION PLAN**

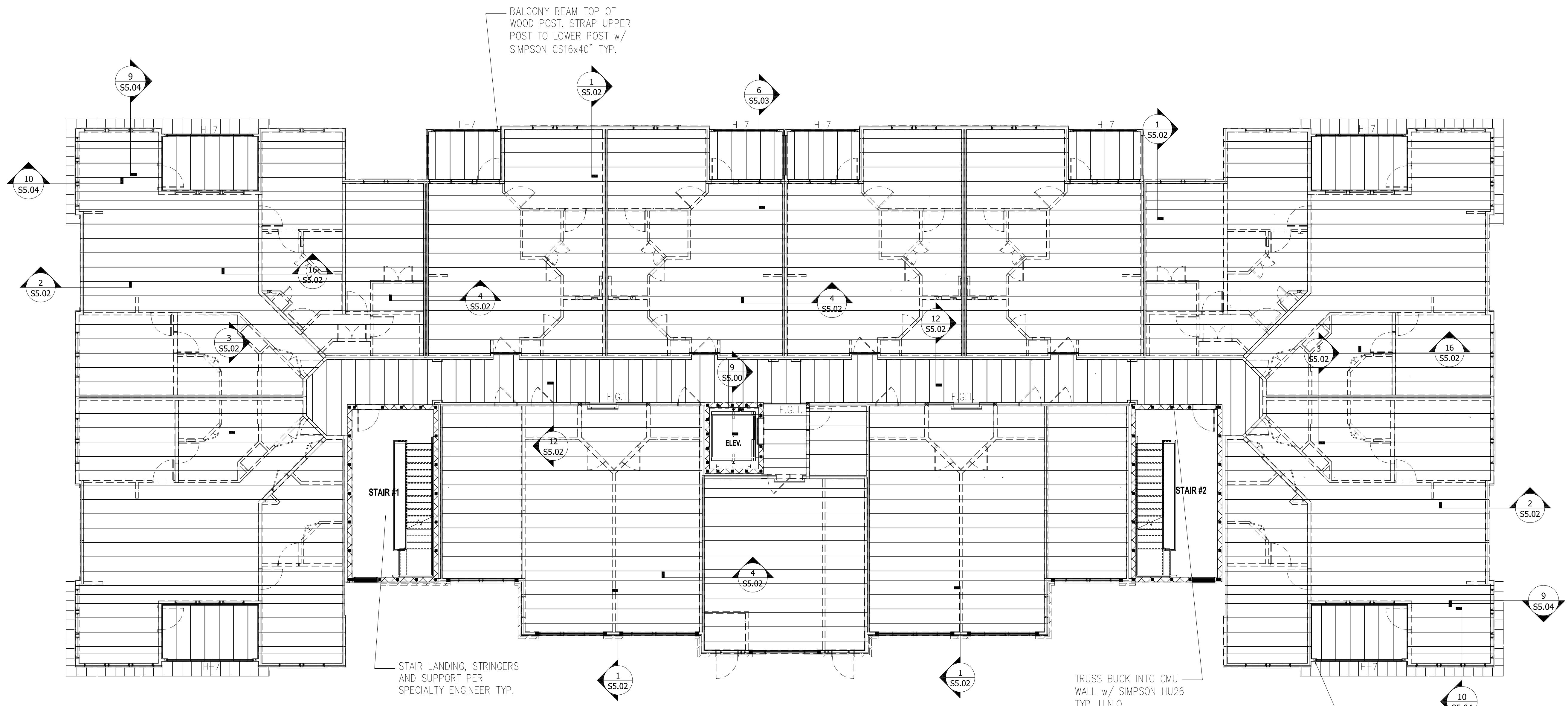
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- 3 ○ INDICATES WOOD STUD SHEAR WALL TYPE, AND SHADING INDICATES EXTENT OF SHEAR WALL. SEE THE SHEAR WALL SCHEDULE ON SHEET S0.02 FOR SHEAR WALL INFORMATION.
- 4 SEE ARCH'L DRAWINGS FOR LOCATIONS/LIMITS AND CONSTRUCTION INFORMATION OF INTERIOR NON-BEARING PARTITION WALLS NOT SHOWN ON PLAN. SEE GENERAL NOTES (SHEET S0.01) FOR ADDITIONAL WALL FRAMING INFORMATION.
- 5 PROVIDE WOOD HEADER OVER ALL OPENINGS IN WOOD WALLS (COORD. EXACT SIZE, LOCATION AND ELEVATIONS WITH ARCH'L DRAWINGS) IF NO HEADER TYPE HAS BEEN CALL-OUT ON PLAN, PROVIDE WOOD HEADER BASED ON HEADER SCHEDULE SHOWN ON S0.01 SHEET. SEE DETAIL 1/S5.04 FOR CONT. HEADER OVER NON-MULLED WINDOWS AND STRAPPING.
- 6 PRE-ENGINEERED 18" DEEP WOOD TRUSSES AT 24" O.C. (MAX) U.N.O., 15" DEEP WOOD TRUSSES AT 24" O.C. (MAX) U.N.O AT BALCONY/BREEZEWAY WITH 3/4" P.T. C-D PLYWOOD SHEATHING.
- 7 COORDINATE LOCATION OF FLOOR TRUSSES W/ MECH. DWGS FOR LOCATION OF EXHAUST FAN, AIR HANDLING, AND DUCTS.
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- 10 SEE THE GENERAL NOTES FOR FLOOR SHEATHING INFORMATION, AND FOR WOOD TRUSS TYPES.
- 11 PROVIDE DOUBLE WOOD STUDS UNDER WOOD HEADER, WOOD BEAM, F.G.T., G.T. CONTINUOUS TO THE FTG. U.N.O. (PROVIDE (2) 2X4 WOOD BLOCKING BETWEEN TRUSS TOP AND BOTTOM CORDS BELOW)
- 12 AT DOORWAYS FOR INTERIOR BEARING WALLS, ADD A (2) 2x BLOCKING BETWEEN FLOOR LEVELS.
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- 14 [Pattern] INDICATES MASONRY BEARING WALLS REINFORCED WITH (1)-#5 VERTICAL GROUT FILLED CELLS SOLID AT ALL CORNERS, ADJACENT MASONRY OPENINGS AND 24" O.C. (MAX) .
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- 17 SEE ARCH PLANS FOR OUTSIDE CORNER PANEL SHADOW BOX LOCATIONS AND DETAIL 12/S5.03 FOR CONNECTION/FRAMING SPECS.



1 2ND FLOOR PLAN
SCALE: 1/8" = 1'-0"

ISSUE HISTORY

No.	Date	Description
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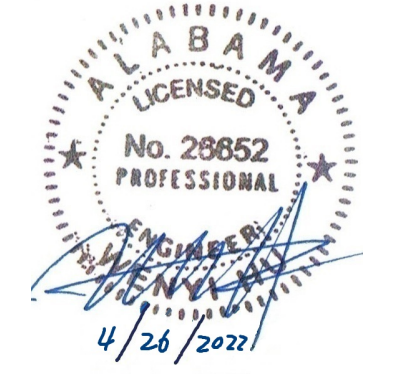
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Certificate of Authorization No. 25873

Wenyi Hu P.E.
Alabama No. 28652



Drawn:	CW
Checked:	CW
Approved:	MX
Date:	02-20-22
Project #:	XXXX-XXX

BUILDING TYPE B
2nd FLOOR FRAMING PLAN

S2.02

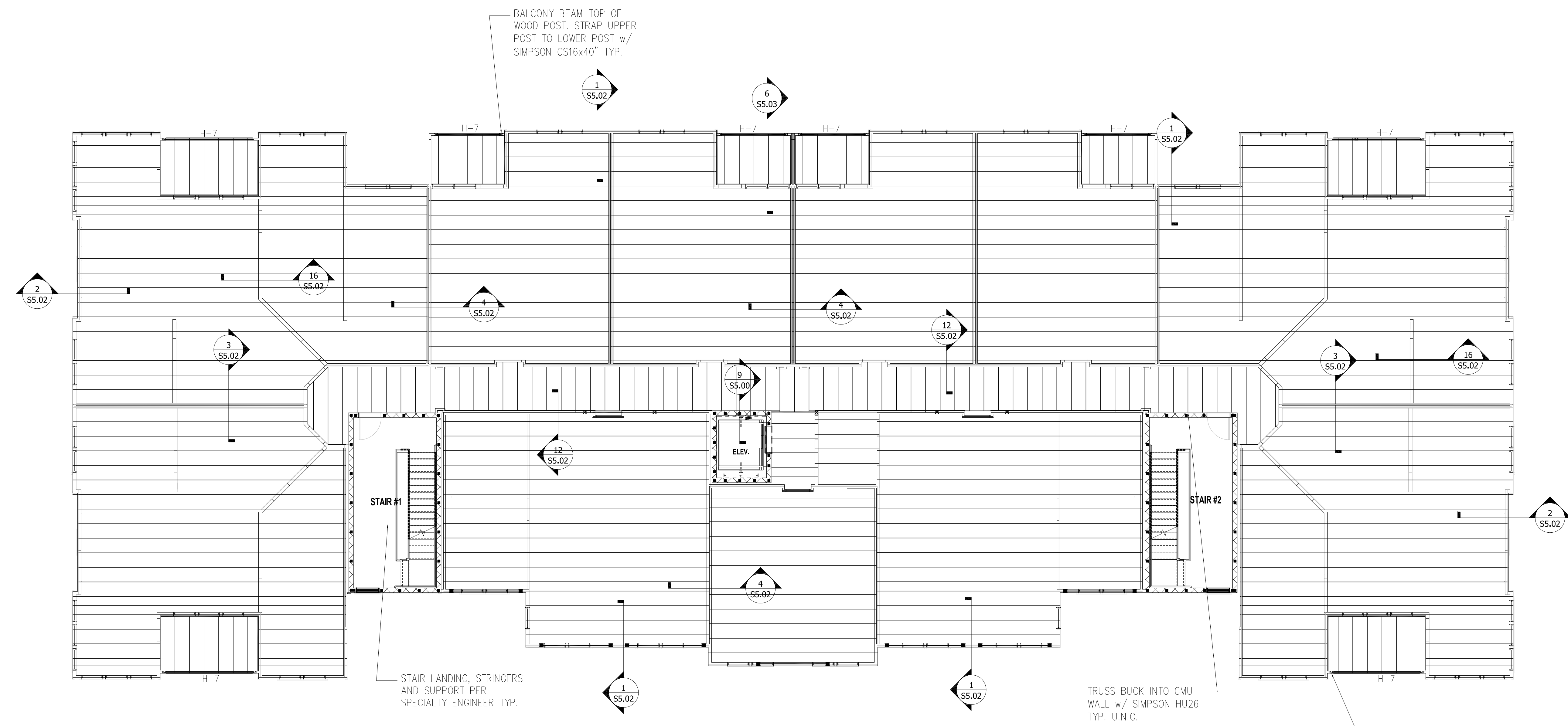
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- 17 SEE ARCH PLANS FOR OUTSIDE CORNER PANEL SHADOW BOX LOCATIONS AND DETAIL 12/S5.03 FOR CONNECTION/FRAMING SPECS.



1 3RD FLOOR PLAN
SCALE: 1/8" = 1'-0"

ISSUE HISTORY

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1	04/15/22	PERMIT SUBMISSION

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No.	Date	Description

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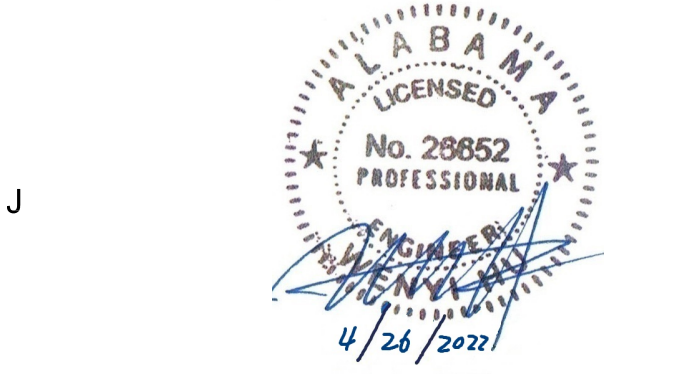
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Wenyi Hu P.E.
Alabama No. 28652



THE ROBERT MADISON

MADISON, ALABAMA

Drawn: CW
Checked: CW
Approval: MX
Date: 02-20-22
Project #: XXX-XXX

BUILDING TYPE B
3rd FLOOR FRAMING PLAN

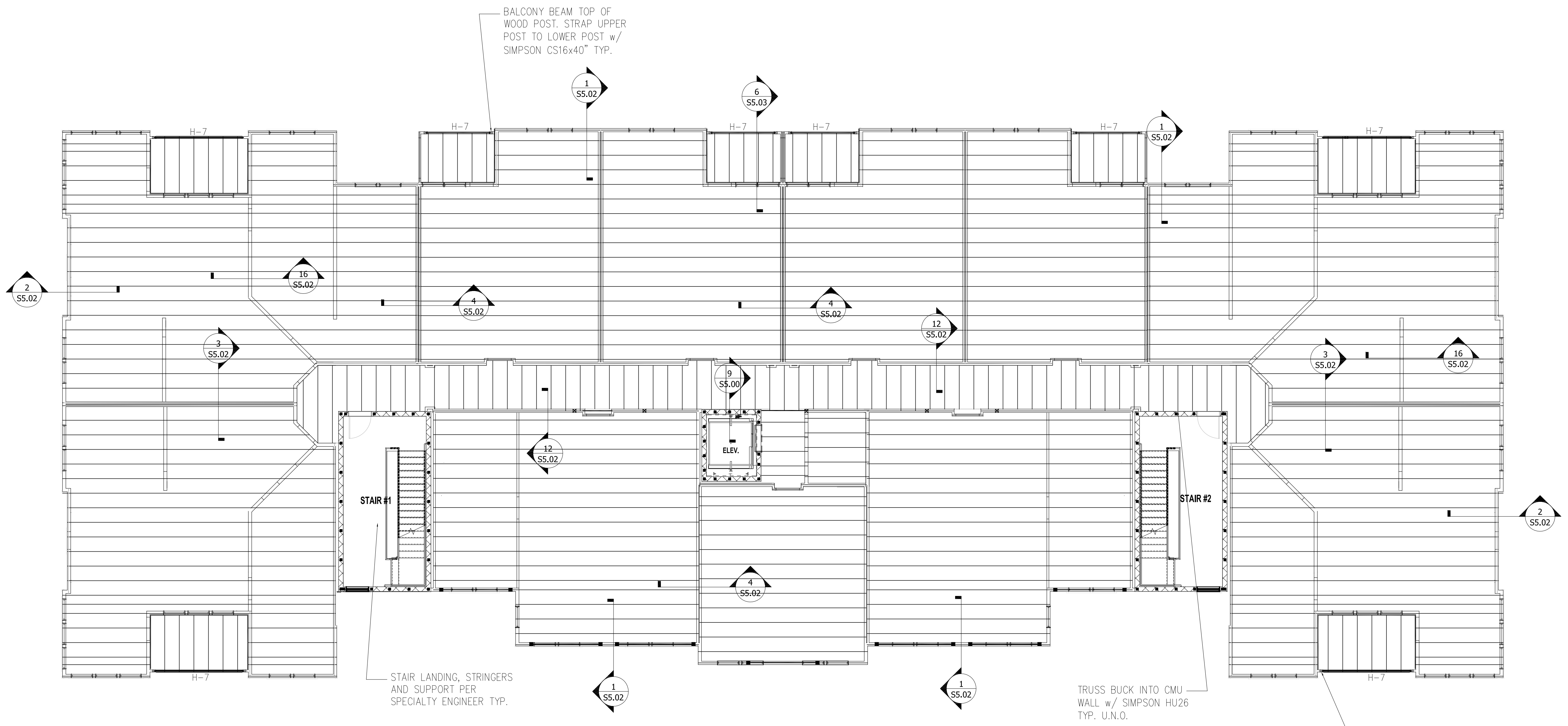
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- 17 SEE ARCH PLANS FOR OUTSIDE CORNER PANEL SHADOW BOX LOCATIONS AND DETAIL 12/S5.03 FOR CONNECTION/FRAMING SPECS.



1 4th FLOOR PLAN
SCALE: 1/8" = 1'-0"

ISSUE HISTORY		
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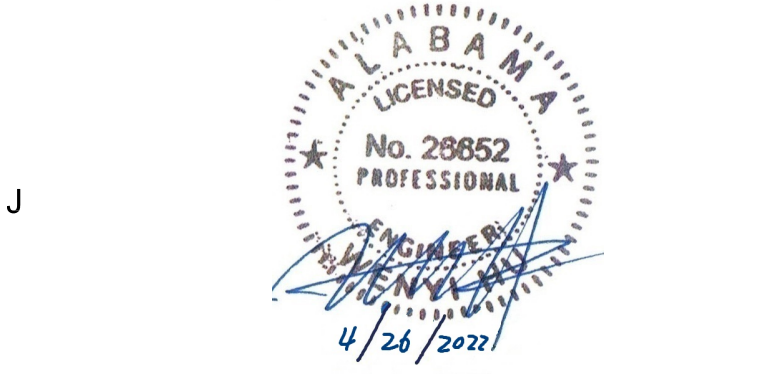
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Wenyi Hu P.E.
Alabama No. 28652



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Approved:	MX
Date:	02-20-22
Project #:	XXX-XXX

BUILDING TYPE B
4th FLOOR FRAMING PLAN

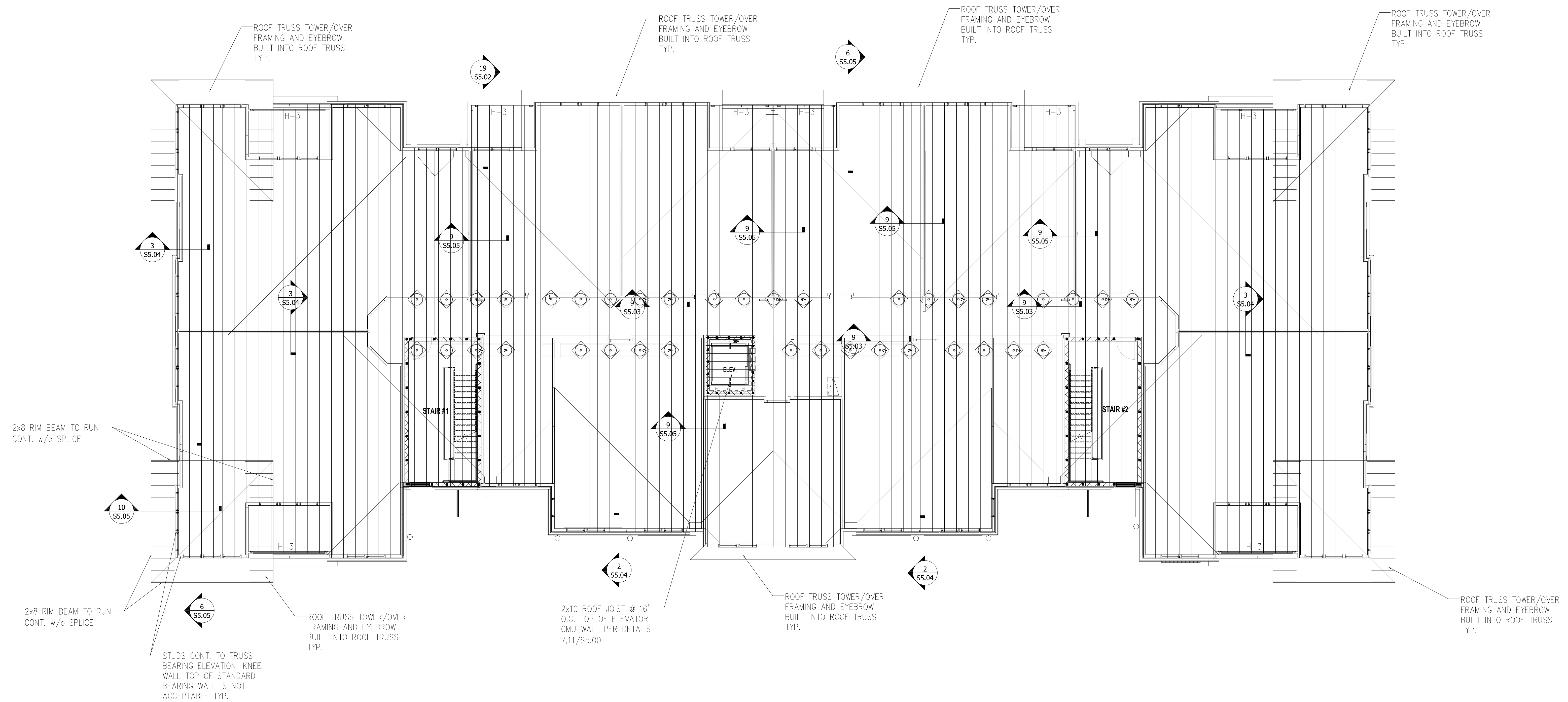
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PLAN NOTES:

- 1 SEE GENERAL NOTES ON SHEET S0.01 & S0.02.
- 2 DO NOT SCALE DRAWINGS. SEE ARCH'L DRAWINGS FOR ADDITIONAL DIMENSIONS NOT SHOWN, VERIFY ALL DIMENSIONS WITH ARCH'L DRAWINGS PRIOR TO START OF CONSTRUCTION. IF DISCREPANCIES SHOULD OCCUR - CONTACT THE ARCHITECT IN WRITING FOR CLARIFICATION BEFORE PROCEEDING.
- 3 SEE ARCH'L DRAWINGS FOR LOCATIONS/LIMITS AND CONSTRUCTION INFORMATION OF INTERIOR NON-BEARING PARTITION WALLS NOT SHOWN ON PLAN. SEE GENERAL NOTES (SHEET S0.01) FOR ADDITIONAL WALL FRAMING INFORMATION.
- 4 PROVIDE WOOD HEADER OVER ALL OPENINGS IN WOOD WALLS (COORD. EXACT SIZE, LOCATION AND ELEVATIONS WITH ARCH'L DRAWINGS) IF NO HEADER TYPE HAS BEEN CALL-OUT ON PLAN, PROVIDE WOOD HEADER BASED ON HEADER SCHEDULE SHOWN ON S0.01 SHEET.
- 5 PRE-ENGINEERED WOOD TRUSSES & MISCELLANEOUS WOOD FRAMING SPACED AT 24" O.C. (MAX).
- 6 O.B. INDICATES OVER-BUILT PRE-ENG. TRUSS.
- 7 G.T. INDICATES GIRDER TRUSS.
- 8 THE REQUIRED NUMBER OF FASTENERS FOR CONNECTORS SUCH AS NAILS TO WOOD MEMBERS, SEE SIMPSON CATALOG.
- 9 SEE THE GENERAL NOTES FOR ROOF SHEATHING INFORMATION, AND FOR WOOD TRUSS TYPES.
- 10 TRUSS ENGINEER TO DESIGN TRUSS TO INCORPORATE LOADS FROM MECHANICAL UNITS.
- 11 PROVIDE DOUBLE WOOD STUDS UNDER WOOD HEADER, WOOD BEAM, F.G.T., G.T. TO THE FTG. U.N.O.
- 12 2x10 JOIST @ 16" O.C. TOP OF ELEVATOR SHAFT. SEE DETAILS 7,11/S5.00 FOR JOIST LAYOUT AND HOIST BEAM CONNECTION.



1 ROOF FRAMING PLAN
SCALE: 1/8" = 1'-0"

ISSUE HISTORY		
No.	Date	Description
1	04/15/22	PERMIT SUBMISSION

REVISION HISTORY		
No.	Date	Description

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Wenyi Hu P.E.
Alabama No. 28652

ALABAMA
LICENSED
No. 28852
PROFESSIONAL
4/26/2021

Drawn:	CW
Checked:	CW
Approved:	MX
Date:	02-20-22
Project #:	XXXX-XXX

THE ROBERT MADISON
MADISON, ALABAMA

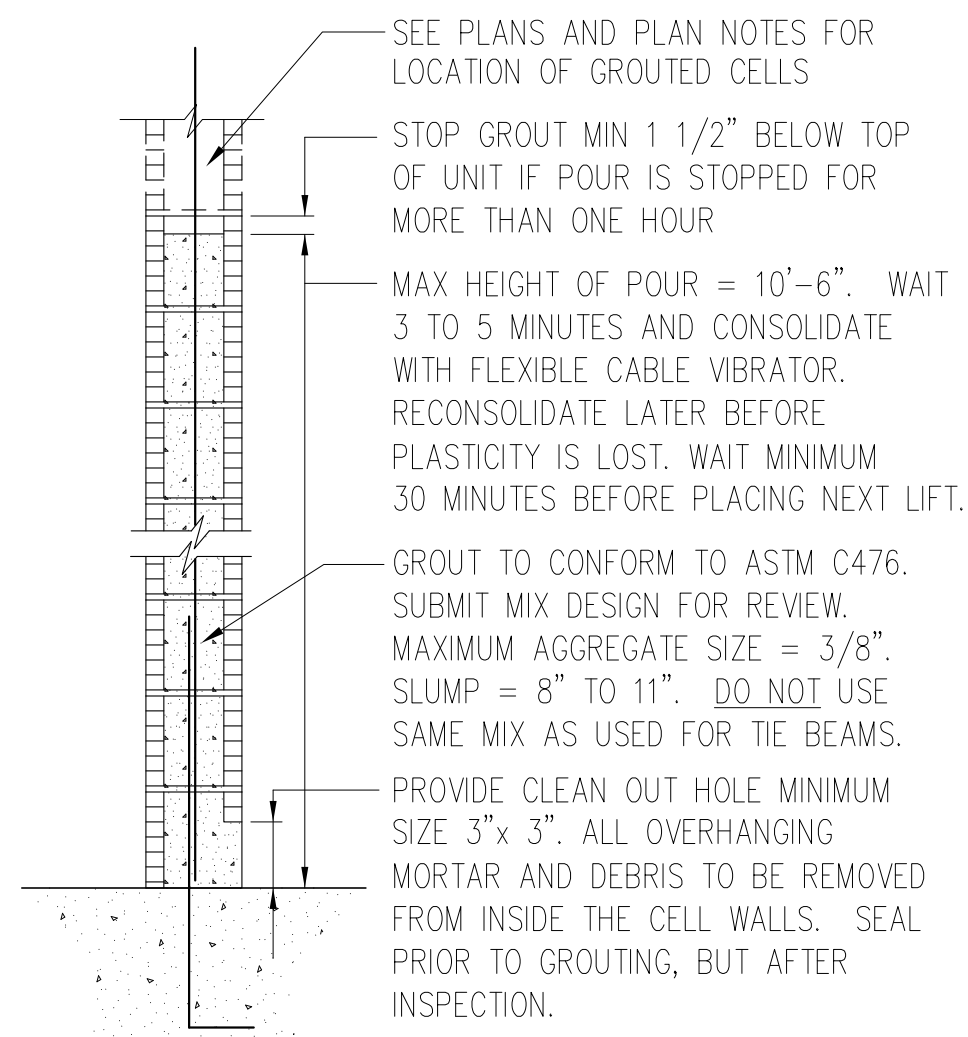
**BUILDING TYPE B
ROOF FRAMING PLAN**

S2.05

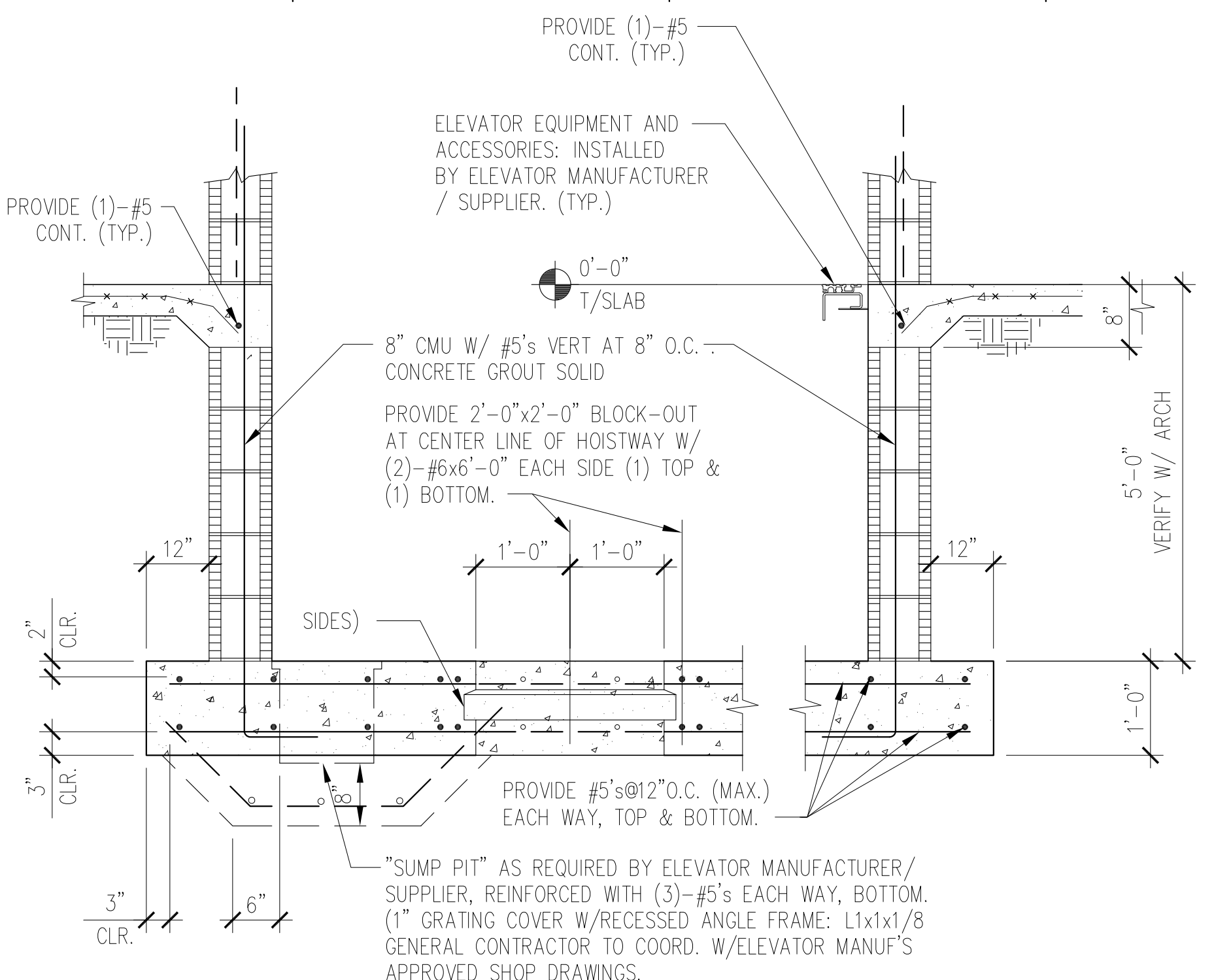
PLOTTED:

MASONRY WALL CONSTRUCTION

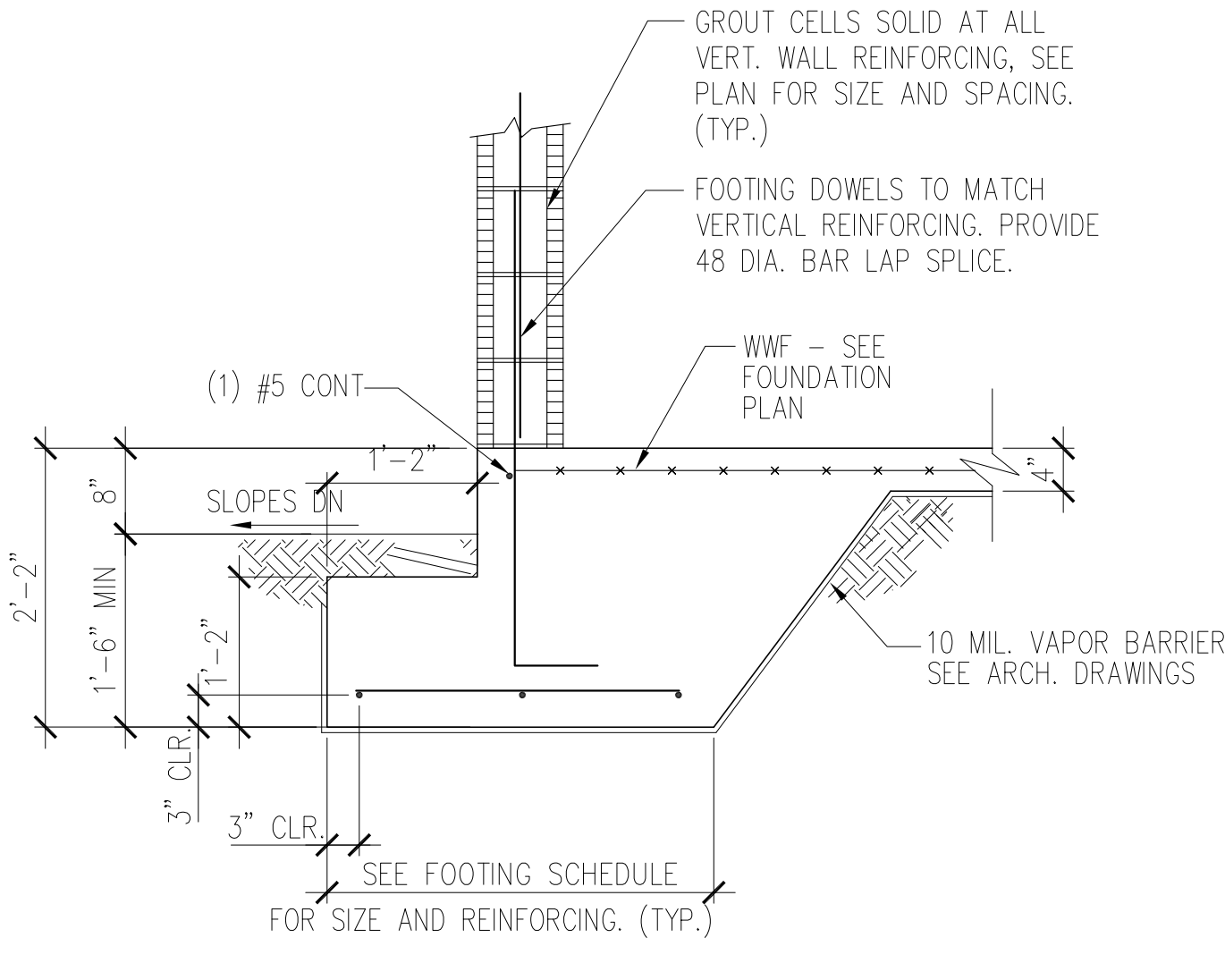
- HOLLOW LOAD BEARING UNITS SHALL BE NORMAL WEIGHT, GRADE N, TYPE 2, CONFORMING TO ASTM C90, WITH A MINIMUM NET COMPRESSIVE STRENGTH OF 1900 PSI ($f_m = 1500$ PSI).
- MORTAR SHALL BE TYPE M OR S, CONFORMING TO ASTM C270.
- COURSE GROUT USED TO FILL MASONRY CELLS SHALL CONFORM TO ASTM C476 WITH A MAXIMUM AGGREGATE SIZE OF 3/8" AND A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI. AT 28 DAYS. THE GROUT SHALL BE PLACED WITH A SLUMP OF 8" TO 11". PLACE GROUT IN ACCORDANCE WITH ACI 530-11.
- VERTICAL REINFORCEMENT SHALL BE AS NOTED ON THE DRAWINGS WITH CELLS FILLED WITH COARSE GROUT.
- VERTICAL REINFORCEMENT SHALL BE HELD IN POSITION AT THE TOP AND BOTTOM. REINFORCEMENT SHALL BE PLACED IN THE CENTER OF THE MASONRY CELL TYPICAL UNLESS OTHERWISE NOTED. SEE TYPICAL GROUTING DETAIL FOR ADDITIONAL INFORMATION.
- REINFORCING STEEL SHALL BE LAPPED MINIMUM 48 BAR DIAMETERS UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- HORIZONTAL WALL REINFORCEMENT SHALL BE STANDARD TRUSS TYPE DUR-0-WAL (9 GA. SIDE X 9 GA. CROSS) @ 16" O.C., UNLESS SHOWN OTHERWISE ON DRAWINGS.
- WHEN A FOUNDATION DOWEL DOES NOT LINE UP WITH A VERTICAL CORE, IT SHALL NOT BE SLOPED MORE THAN ONE HORIZONTAL IN SIX VERTICALS. DOWELS SHALL BE GROUTED INTO A CORE IN VERTICAL ALIGNMENT, EVEN THOUGH IT IS IN AN ADJACENT CELL TO THE VERTICAL WALL REINFORCEMENT.
- PROVIDE PRECAST CONCRETE LINTELS OVER ALL OPENINGS UNLESS NOTED OTHERWISE ON DRAWINGS. LINTELS SHALL BE OF SUFFICIENT SIZE AND REINFORCEMENT FOR THE GIVEN SPANS AND LOADING CONDITIONS. SUBMIT SHOP DRAWINGS WITH RATED LOAD CAPACITIES TO THE ARCHITECT FOR REVIEW.
- SPECIAL INSPECTION OF UNIT MASONRY IS REQUIRED.
- THIS DESIGN MEETS THE REQUIREMENTS OF ACI 530.1, ASCE 7-16.
- ALL UNIT MASONRY CONSTRUCTION SHALL COMPLY WITH FBC 2020.



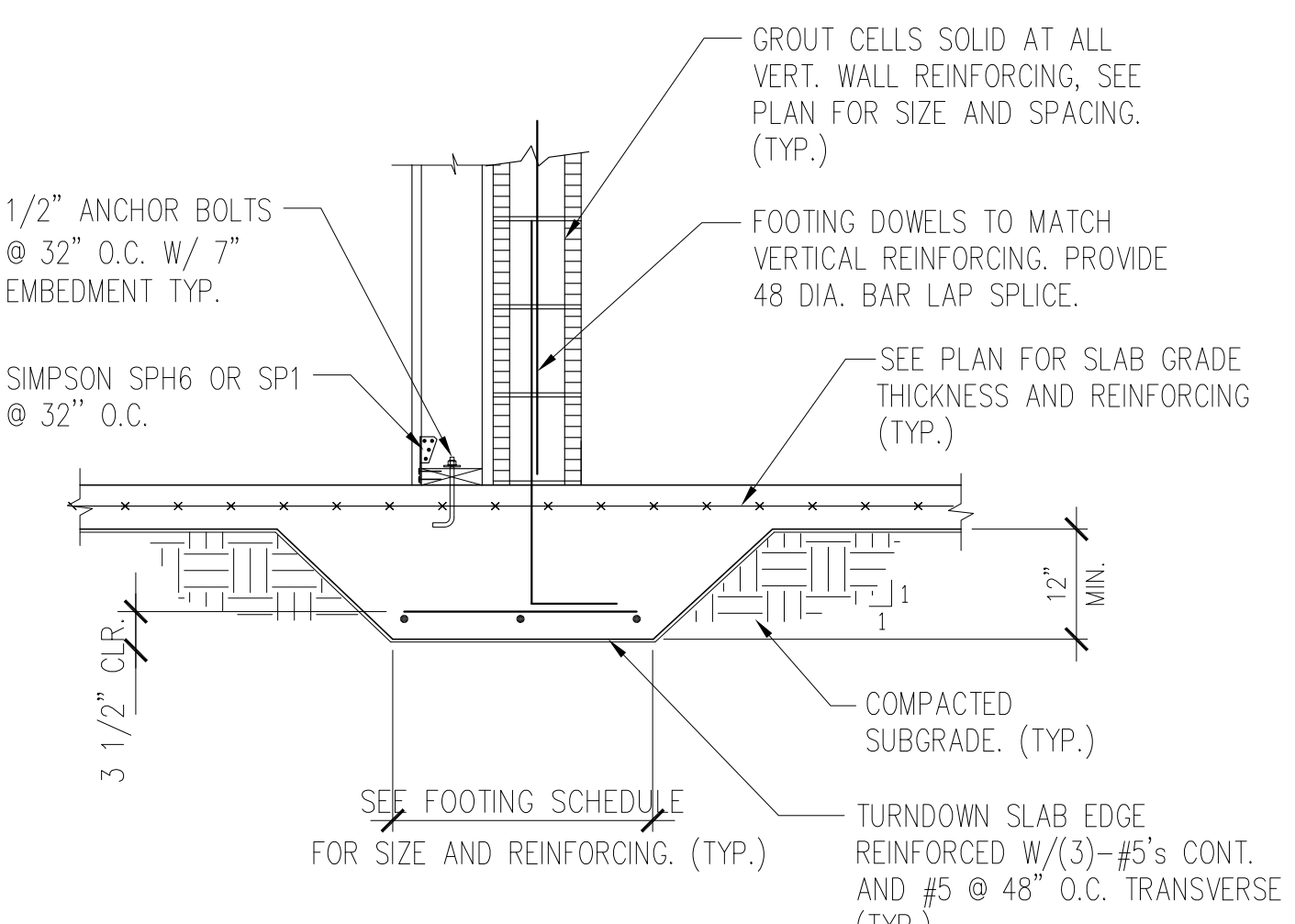
1 GROUTING SECTION TYPICAL HIGH LIFT
SCALE: N.T.S.



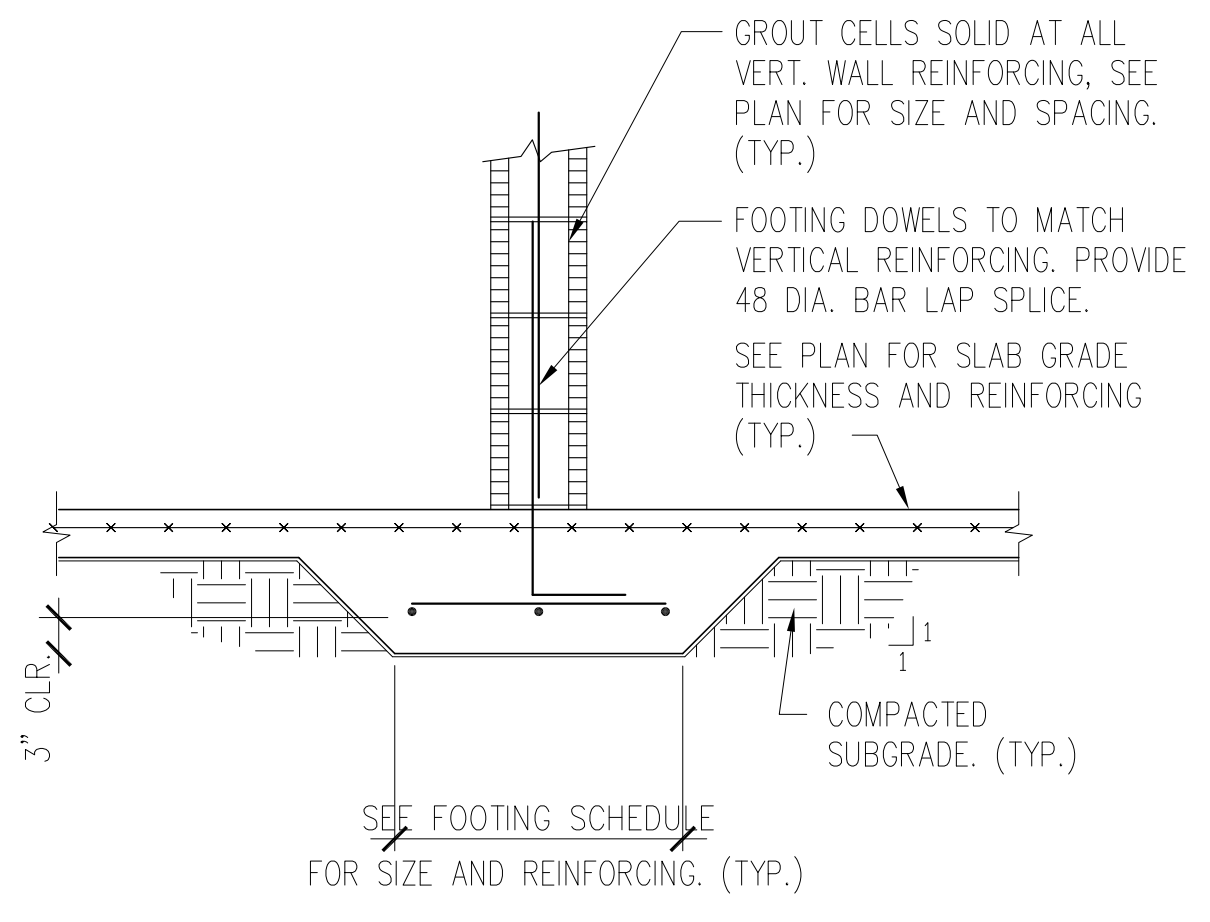
2 ELEVATOR PIT DETAIL
SCALE: 3/4" = 1'-0"



3 CMU WALL AT EXT. FOOTER
SCALE: 3/4" = 1'-0"



4 THICKENED SLAB/FOOTING
SCALE: N.T.S.



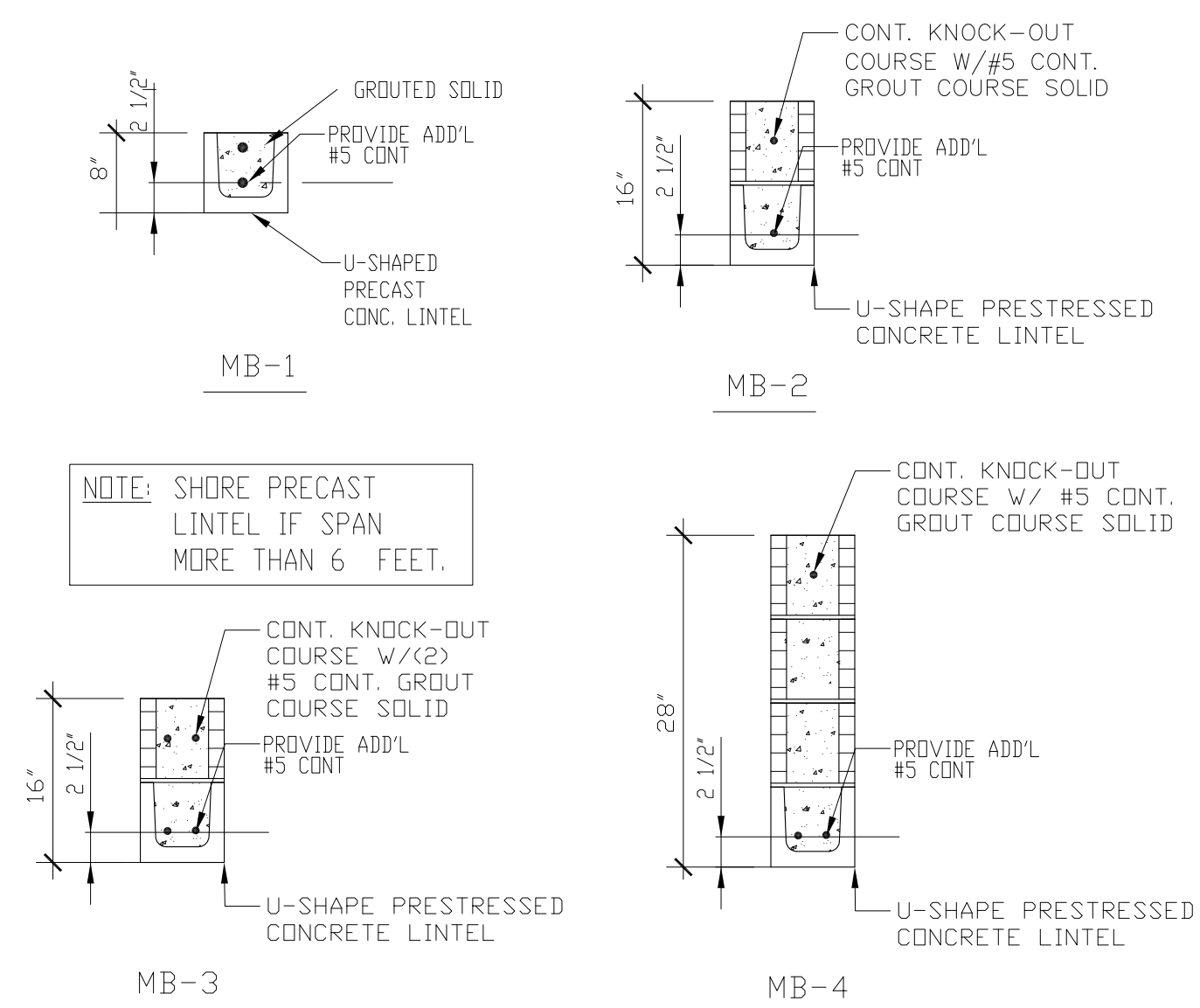
5 THICKENED SLAB/FOOTING
SCALE: N.T.S.

MASONRY LINTEL SCHEDULE (CAST-CRETE LINTEL)

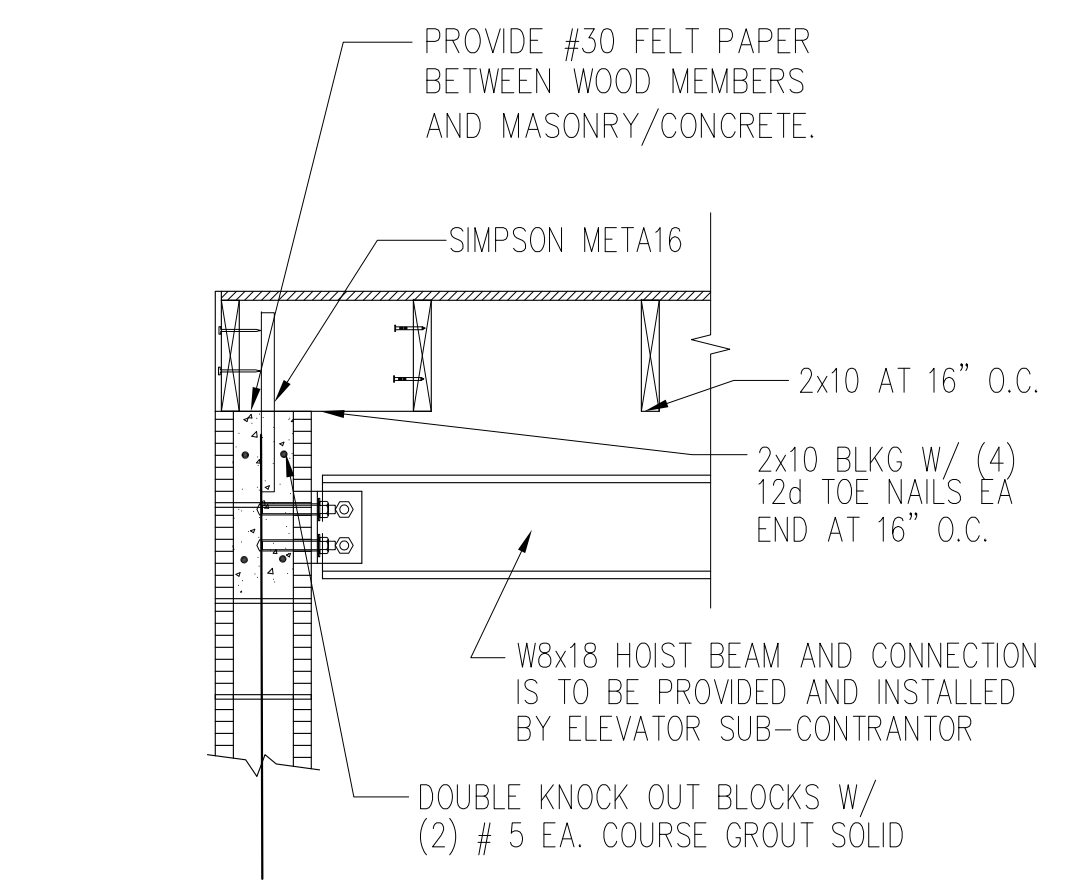
MARK	LENGTH (L)	CAST-CRETE MARK	REMARK
MB-1	2' - 10" < L ≤ 5' - 10"	8F16-0B/1T PRECAST	
MB-2	5' - 10" < L ≤ 14' - 0"	8F16-1B/1T PRECAST	
MB-3	14' - 0" < L ≤ 21' - 4"	8F16-1B/1T PRESTRESSED	
MB-4	14' - 0" < L ≤ 21' - 4"	8F28-2B/1T PRESTRESSED	

- PROVIDE MASONRY LINTEL OVER ALL OPENINGS. IF NO LINTEL IS SPECIFIED, PROVIDE MB-2.
- PROVIDE MINIMUM END BEARING OF 8". CUT OUT BOTTOM OF LINTEL AT END TO ALLOW CONTINUATION OF FILLED CELL REINFORCING.
- MASONRY LINTEL SUBSTITUTIONS MUST BE APPROVED BY "ADVANCED STRUCTURAL ENGINEERING" PRIOR TO INSTALLATION.

NOTE: SHORE PRECAST "U" LINTELS PER MANUFACTURER'S RECOMMENDATIONS.



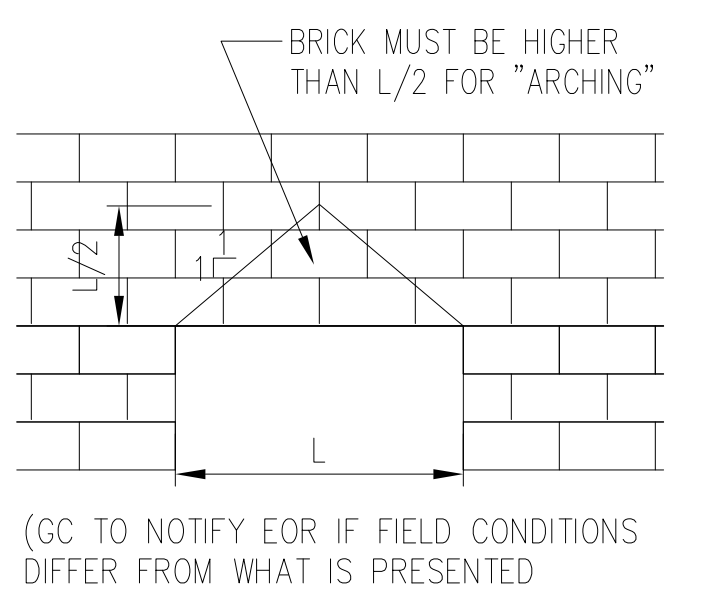
6 MASONRY LINTEL SCHEDULE
SCALE: N.T.S.



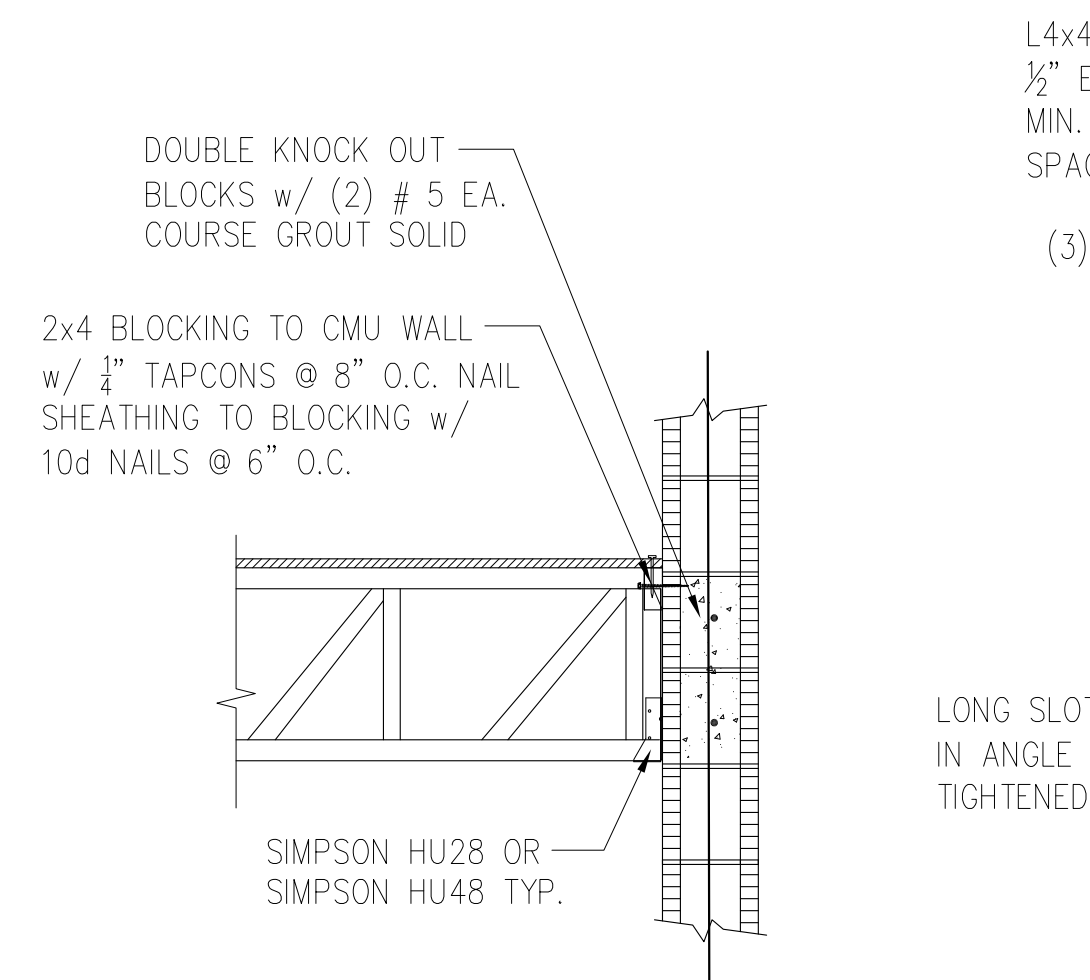
7 SECTION @ ELEVATOR
SCALE: N.T.S.

BRICK VENEER LINTELS:
1. ALL STEEL VENEER LINTELS SHALL BE HOT-DIPPED GALVANIZED AND HAVE A MINIMUM BEARING OF 6 INCHES AT EACH END.
2. PROVIDE BRICK TIES FROM BRICK TO WOOD STUDS @ 16" O.C. EACH WAY.

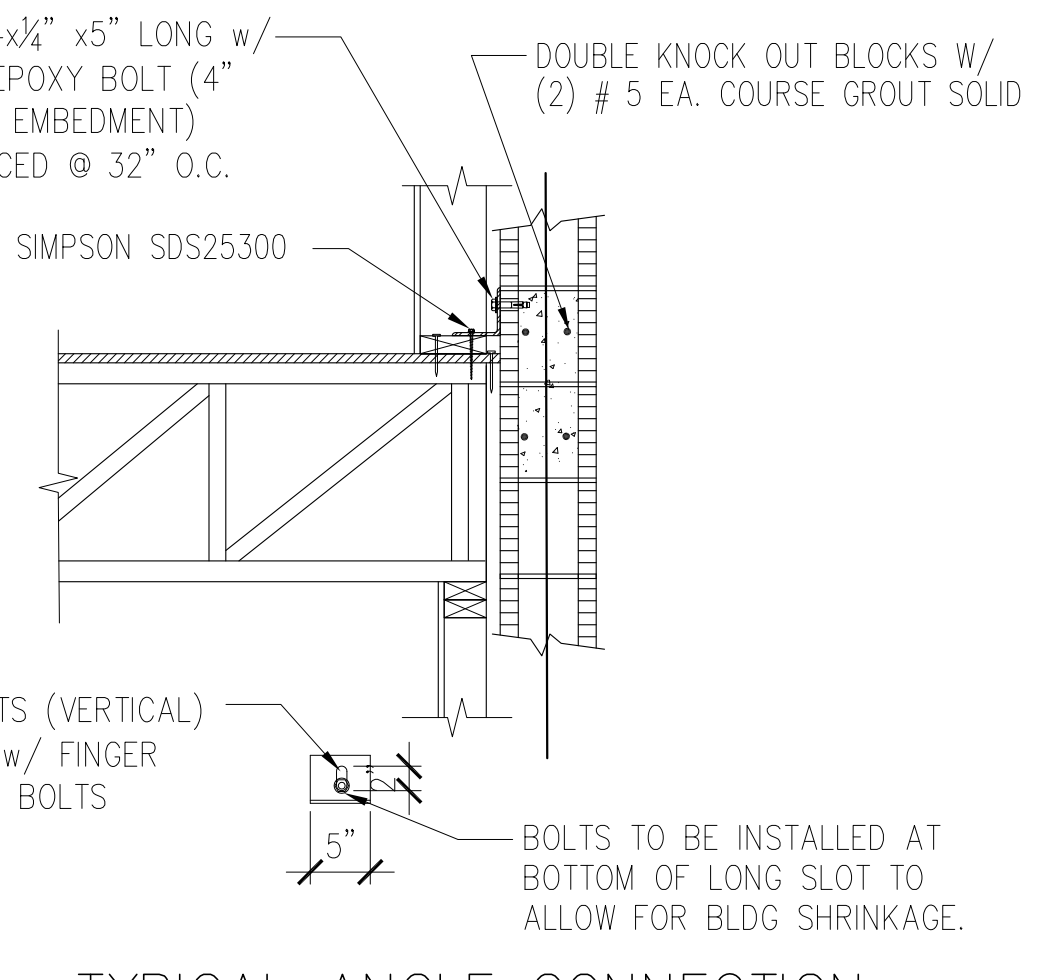
MAX CLEAR SPAN "L"	STEEL VENEER LINTEL
3'-0" MAX	L4x4x1/4
4'-0" MAX	L4x4x1/4
6'-0" MAX	L5x5x5/16
11'-0" MAX	L8x5x7/16 LLV (BENT PLATE)
13'-0" MAX @ ONE STORY WALLS OR 4'-0" MAX. TALL BRICK FACING	L8x5x7/16 LLV (BENT PLATE)



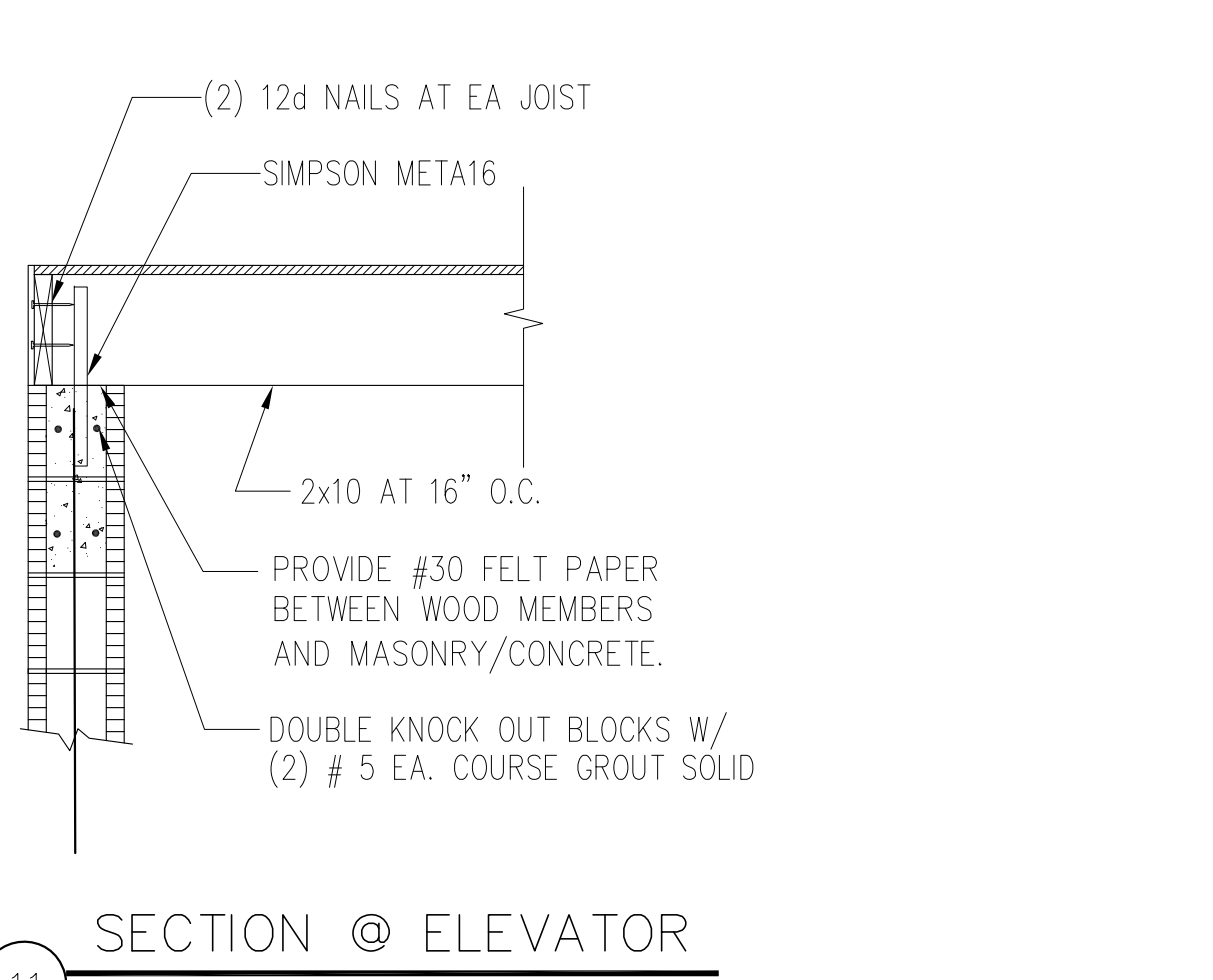
8 SECTION
SCALE: N.T.S.



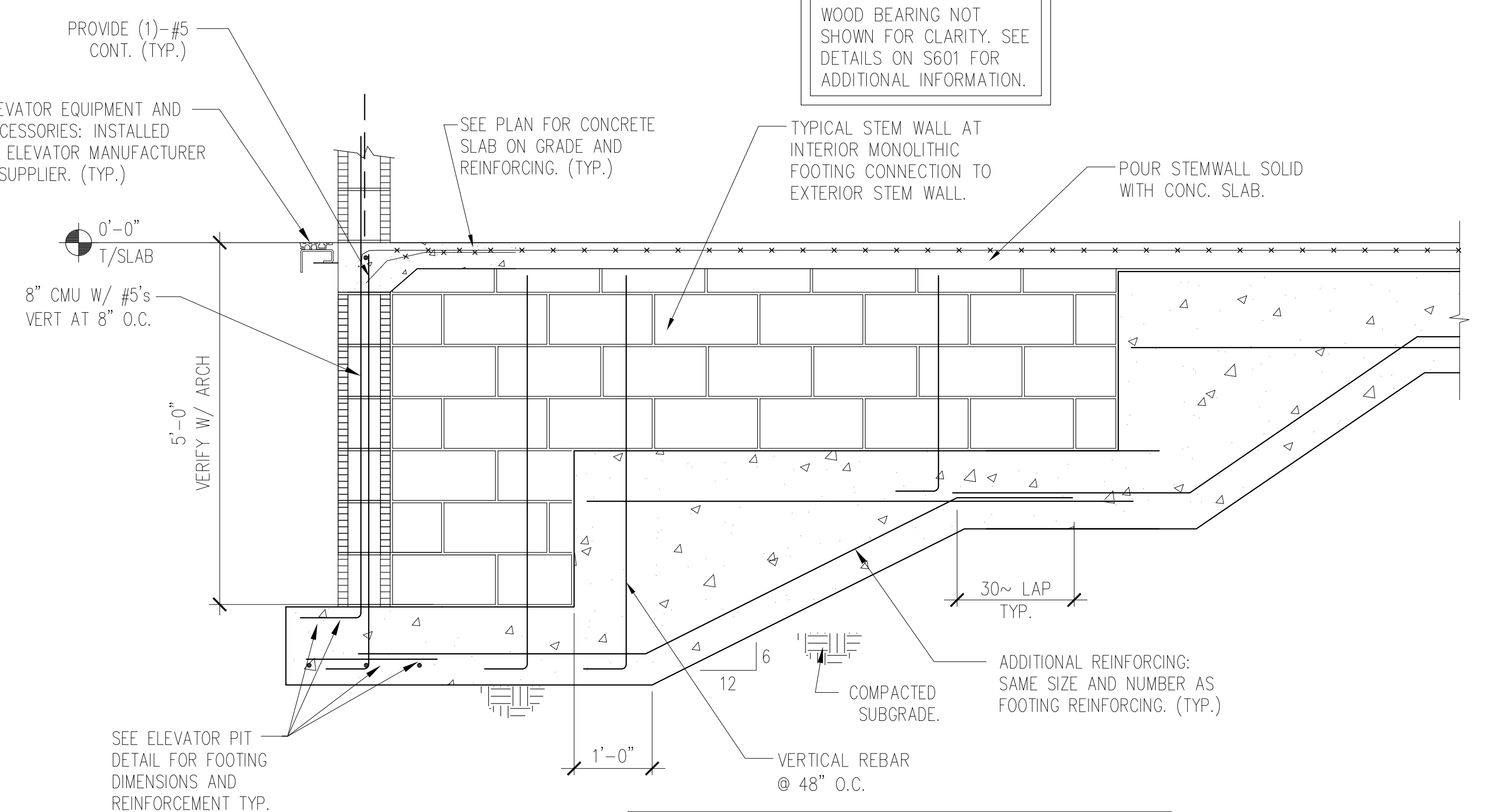
9 SECTION
SCALE: N.T.S.



10 TYPICAL ANGLE CONNECTION AT CMU WALL
SCALE: 3/4" = 1'-0"



11 SECTION @ ELEVATOR
SCALE: N.T.S.



SEE TYPICAL EXTERIOR FOOTING SECTIONS 1/S601 FOR EXTERIOR STEMWALL FOOTING DETAILS AND SECTION 6B/S601 FOR ADDITIONAL STEP FOOTING DETAILS.

11 TYP. FOOTING TRANSITION FOR INTERIOR FOOTERS AT ELEV. PIT
SCALE: 3/4" = 1'-0"



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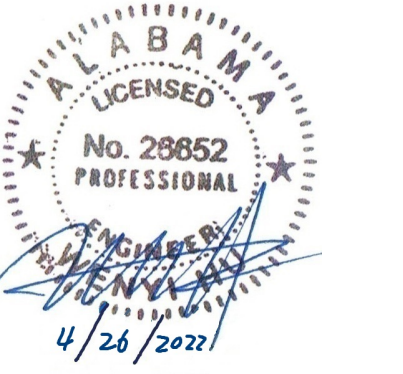
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ASE ENGINEERING SERVICES, INC.

STRUCTURAL DESIGN GROUP
We provide structural design services for residential, commercial, industrial, and institutional projects. Our services include structural steel design, concrete design, and foundation design. We are a member of the International Brotherhood of Professional Engineers (IBPE) and are licensed in the state of Florida.

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Wenyi Hu P.E.
Alabama No. 26652

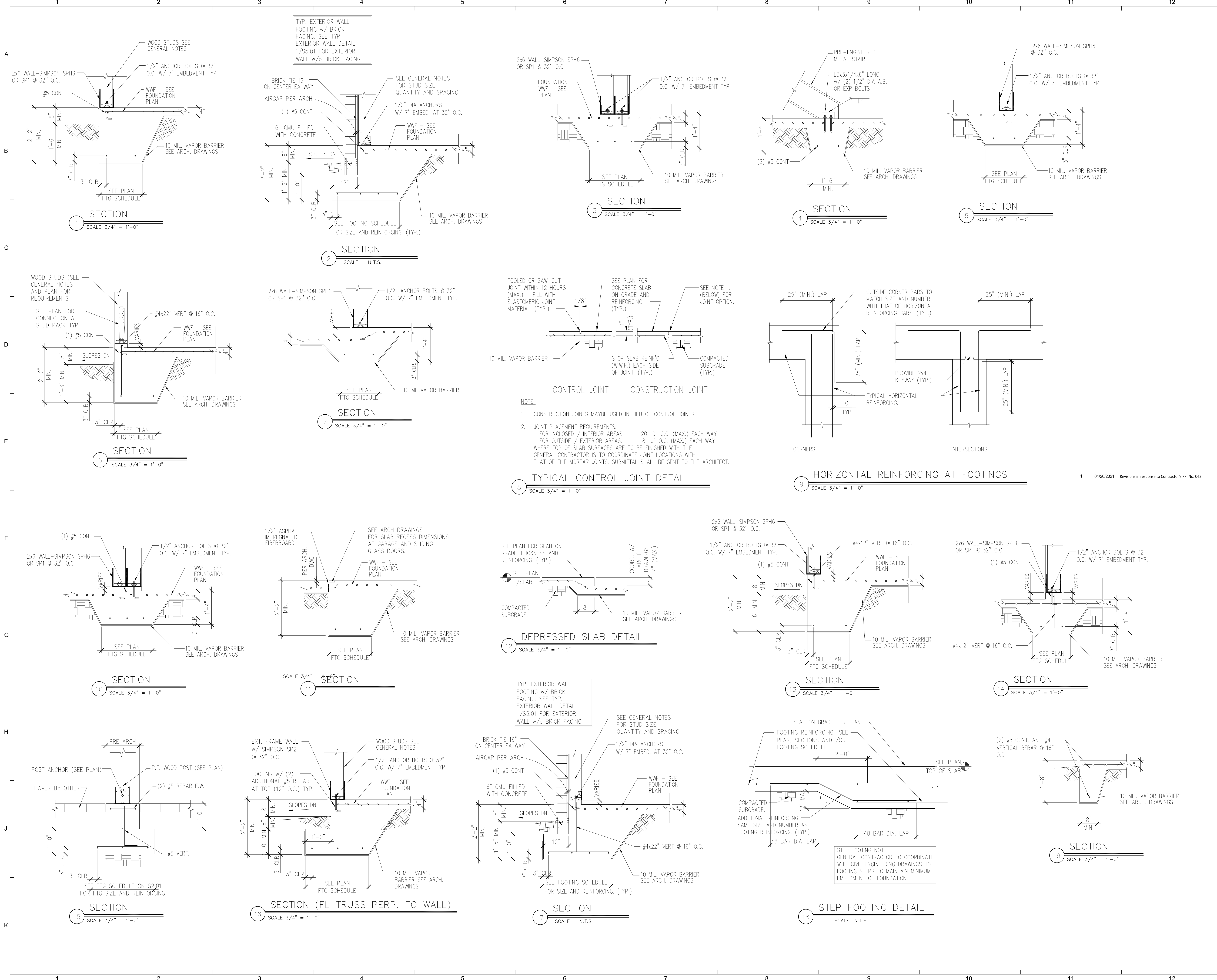


THE ROBERT MADISON
MADISON, ALABAMA

Drawn: CW
Checked: CW
Approved: MX
Date: 02-20-22
Project #: XXX-XXX

SECTION AND DETAILS BLDG TYPES A, B & C

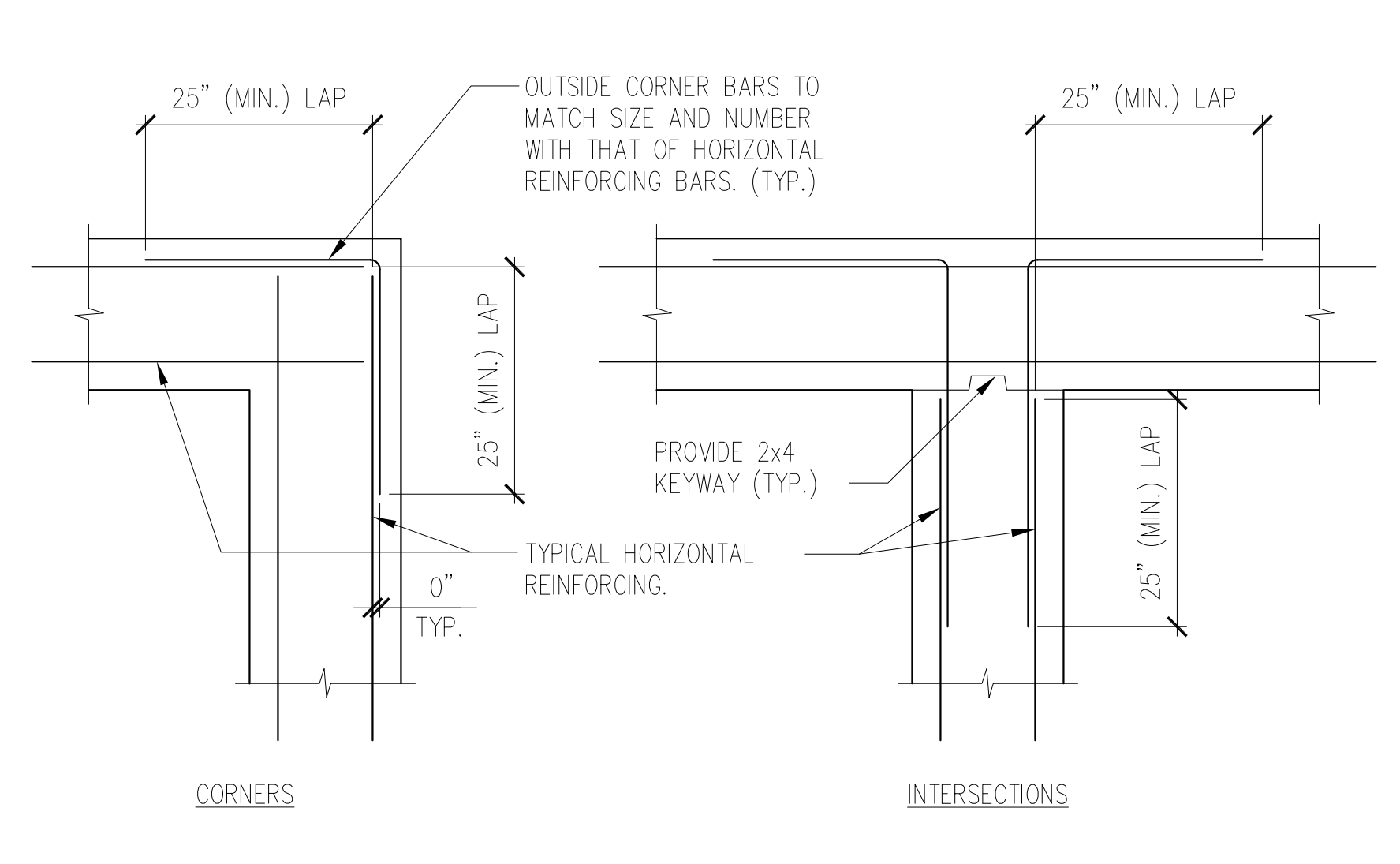
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CONTROL JOINT CONSTRUCTION JOINT

NOTE:

- CONSTRUCTION JOINTS MAYBE USED IN LIEU OF CONTROL JOINTS.
- JOINT PLACEMENT REQUIREMENTS:
 FOR INCLOSED / INTERIOR AREAS. 20'-0" O.C. (MAX.) EACH WAY
 FOR OUTSIDE / EXTERIOR AREAS. 8'-0" O.C. (MAX.) EACH WAY
 WHERE TOP OF SLAB SURFACES ARE TO BE FINISHED WITH TILE -
 GENERAL CONTRACTOR IS TO COORDINATE JOINT LOCATIONS WITH
 THAT OF TILE MORTAR JOINTS. SUBMITTAL SHALL BE SENT TO THE ARCHITECT.



TYPICAL CONTROL JOINT DETAIL
SCALE 3/4" = 1'-0"

HORIZONTAL REINFORCING AT FOOTINGS
SCALE 3/4" = 1'-0"

1 04/20/2021 Revisions in response to Contractor's RFI No. 042

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Wenyi Hu P.E.
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ALABAMA LICENSED PROFESSIONAL ENGINEER

No. 29852

4/26/2021

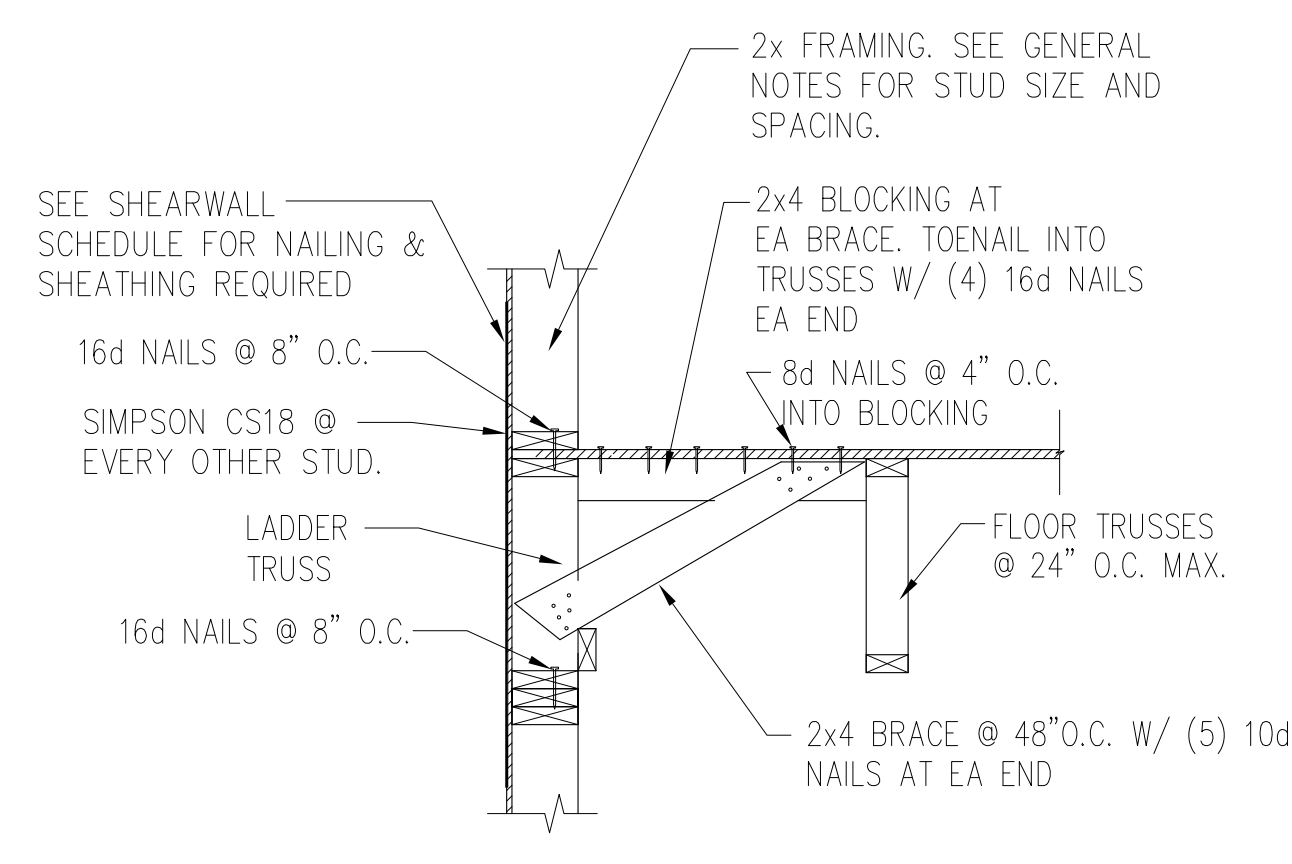
THE ROBERT MADISON

MADISON, ALABAMA

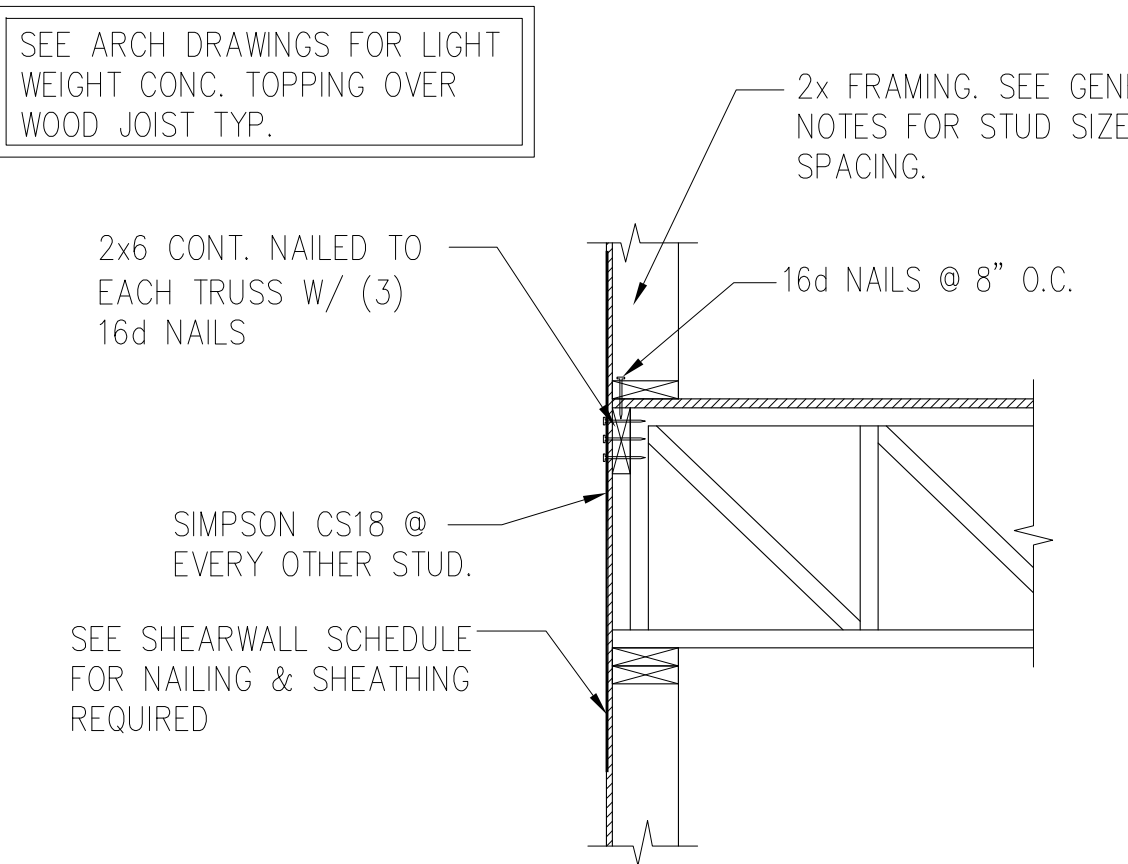
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Project #: XXX-XXX

SECTION AND DETAILS BLDG TYPES A, B & C

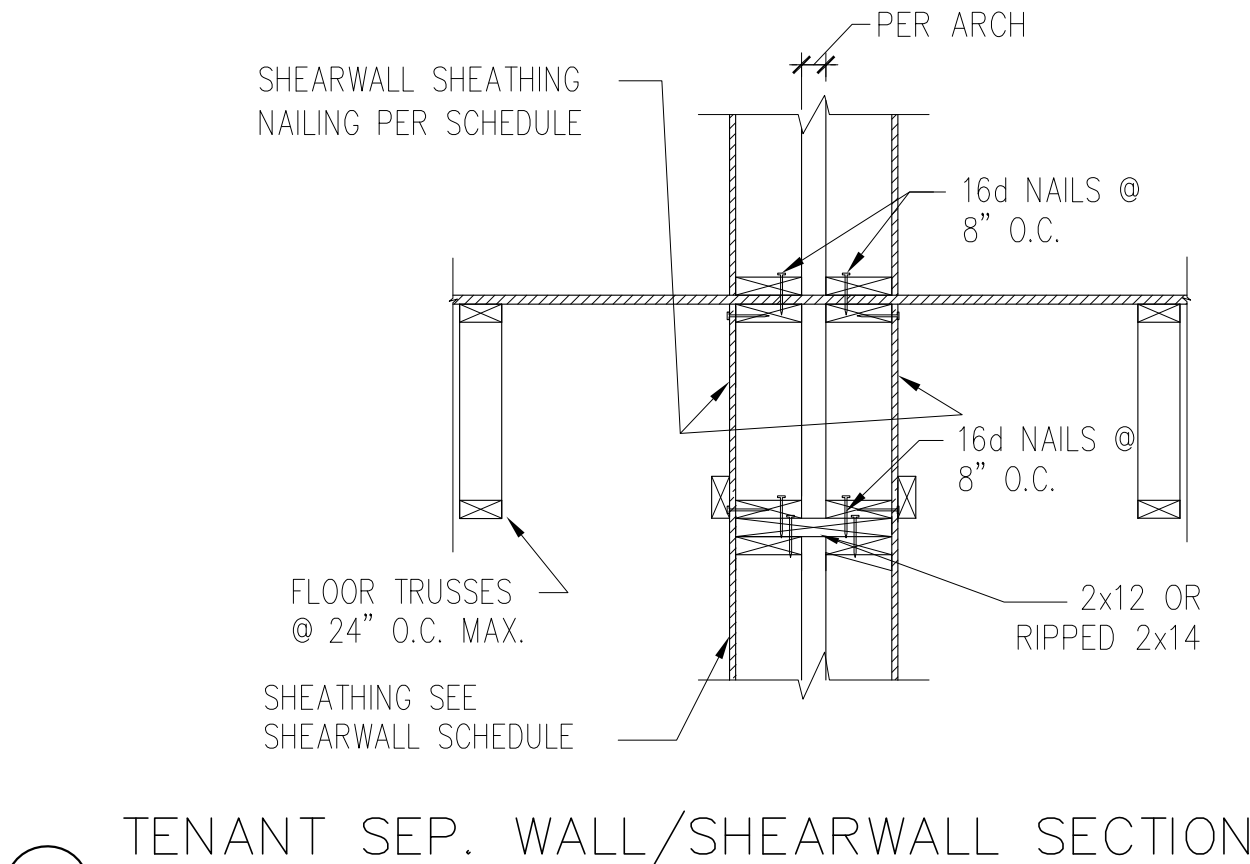
S5.01



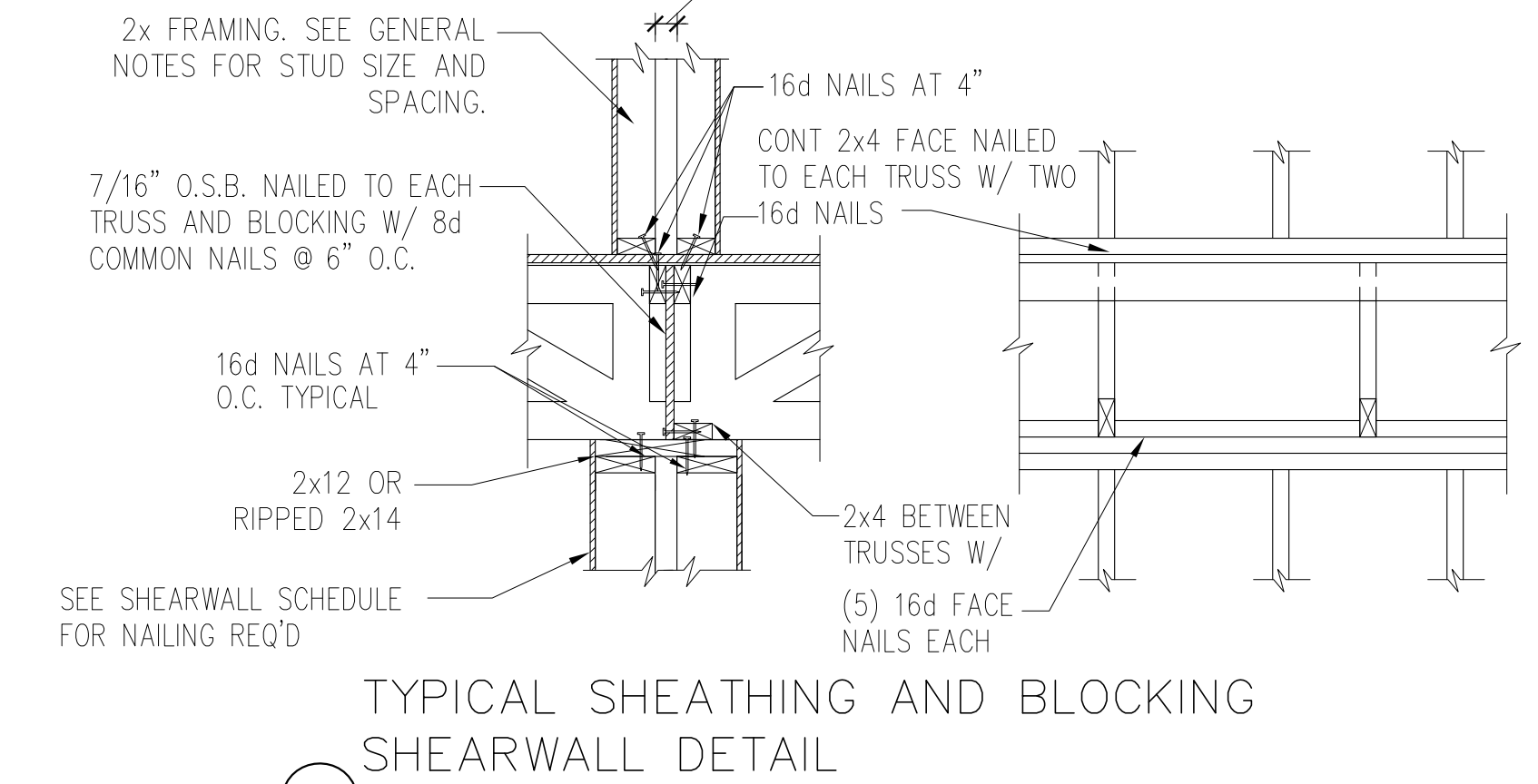
1 BRACING AT END WALL
SCALE 3/4" = 1'-0"



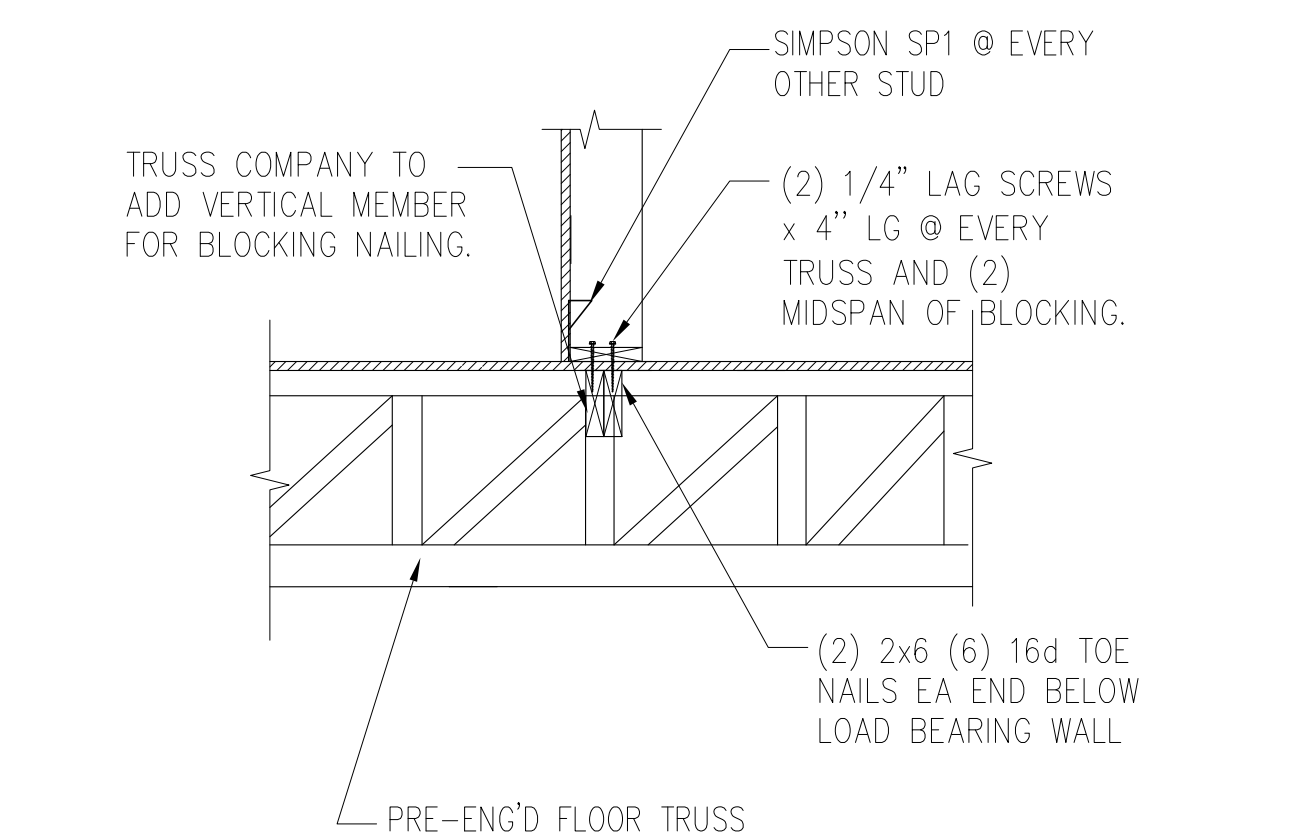
2 SECTION
SCALE 3/4" = 1'-0"



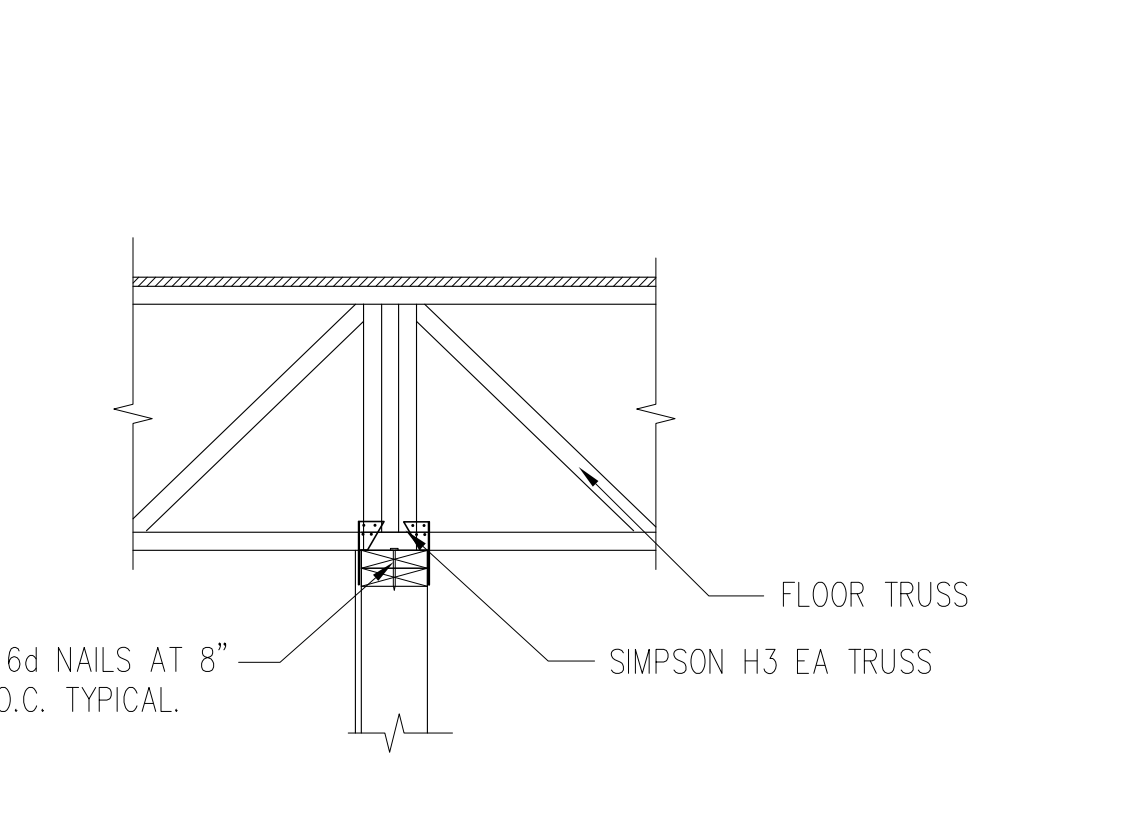
3 TENANT SEP. WALL/SHEARWALL SECTION
SCALE 3/4" = 1'-0"



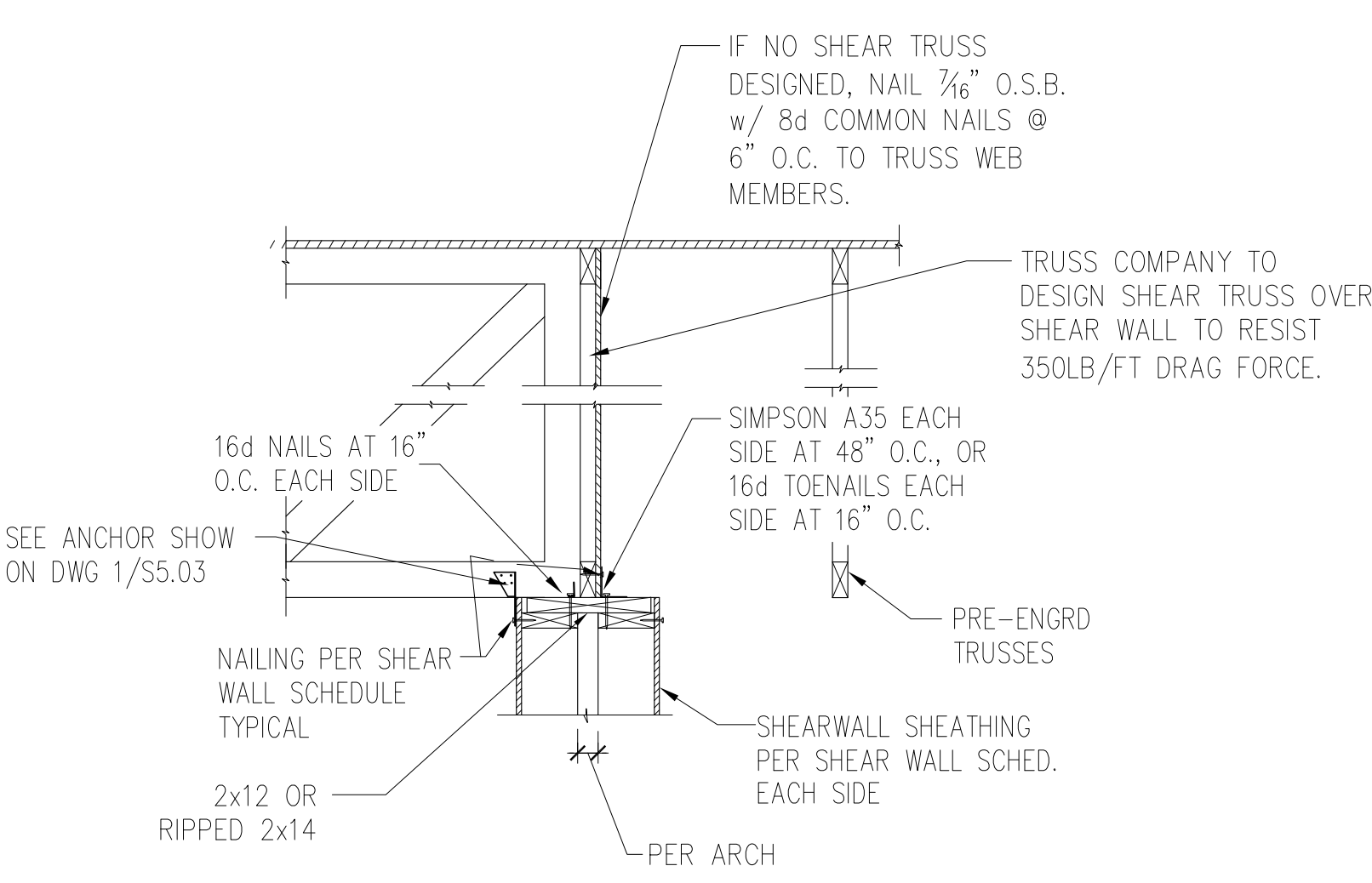
4 TYPICAL SHEATHING AND BLOCKING SHEARWALL DETAIL
SCALE 3/4" = 1'-0"



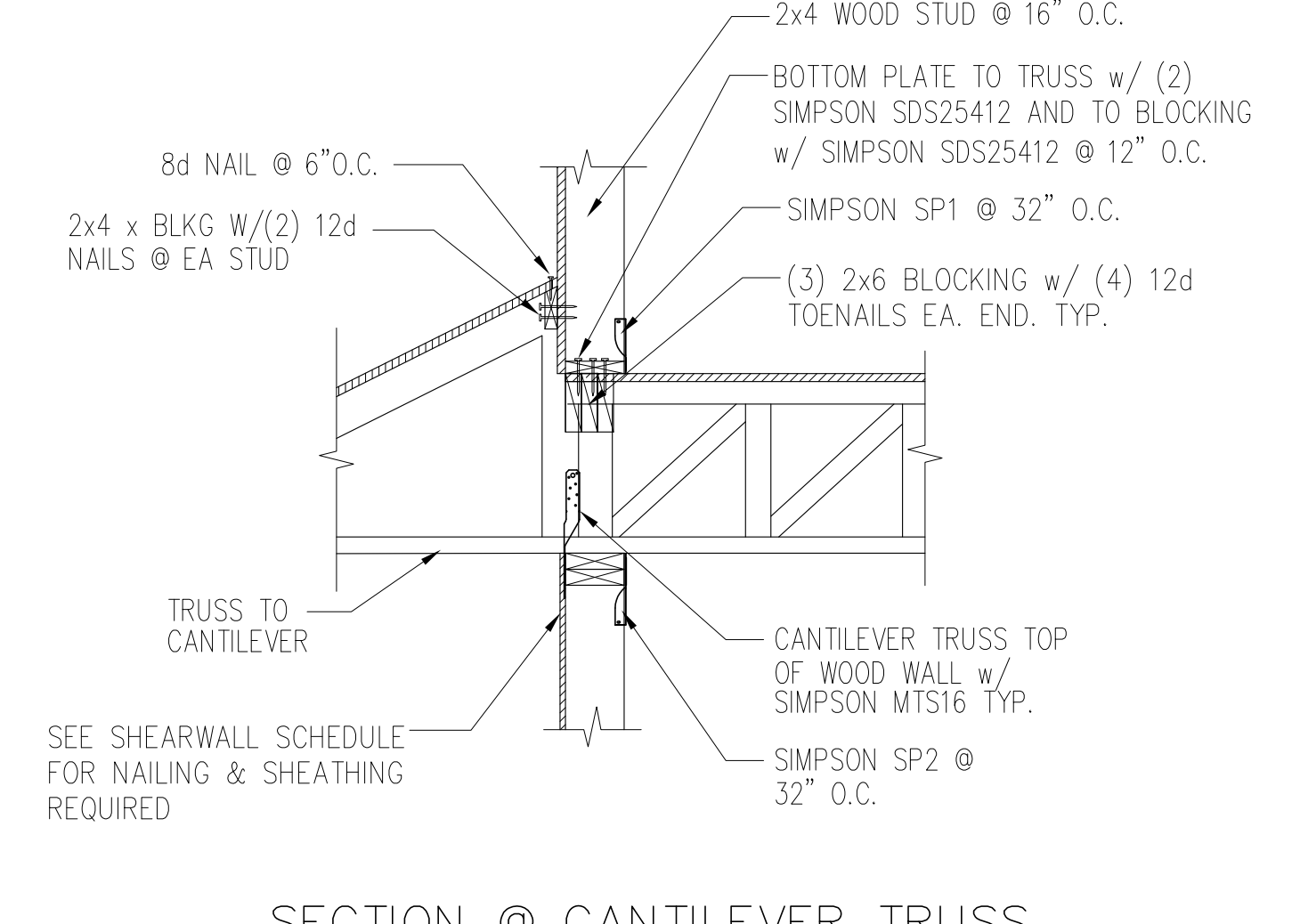
5 TYP. WALL SUPPORTED BY FLOOR TRUSSES
SCALE 3/4" = 1'-0"



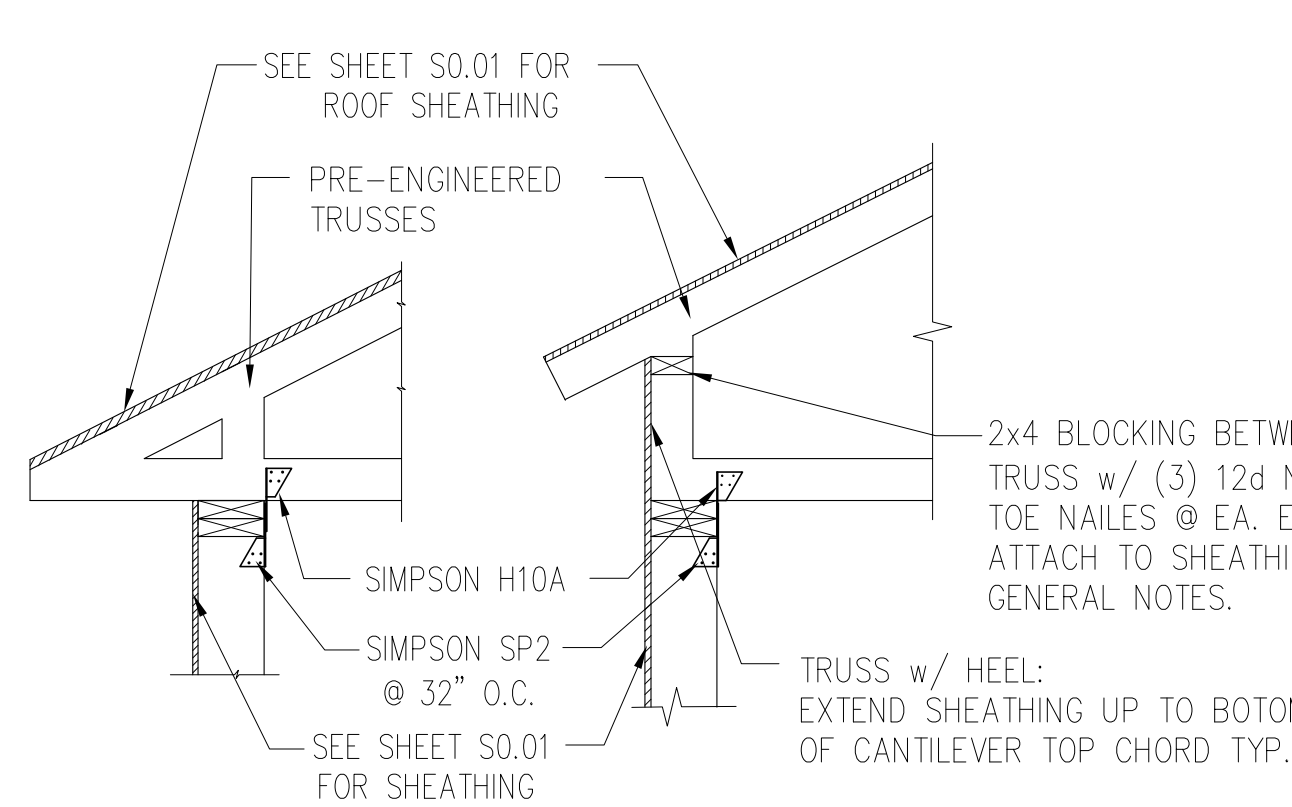
6 SECTION
SCALE 3/4" = 1'-0"



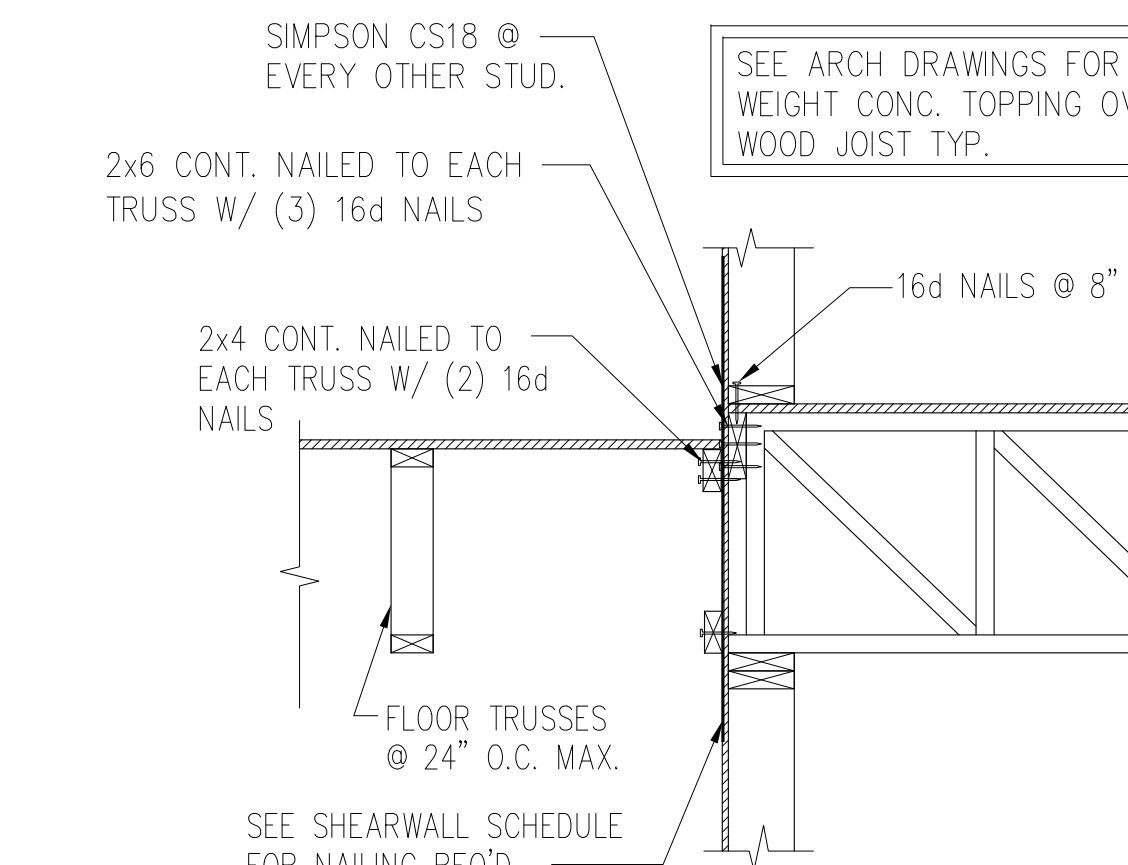
7 TENANT SEP. WALL/SHEARWALL SECTION @ ROOF
SCALE 3/4" = 1'-0"



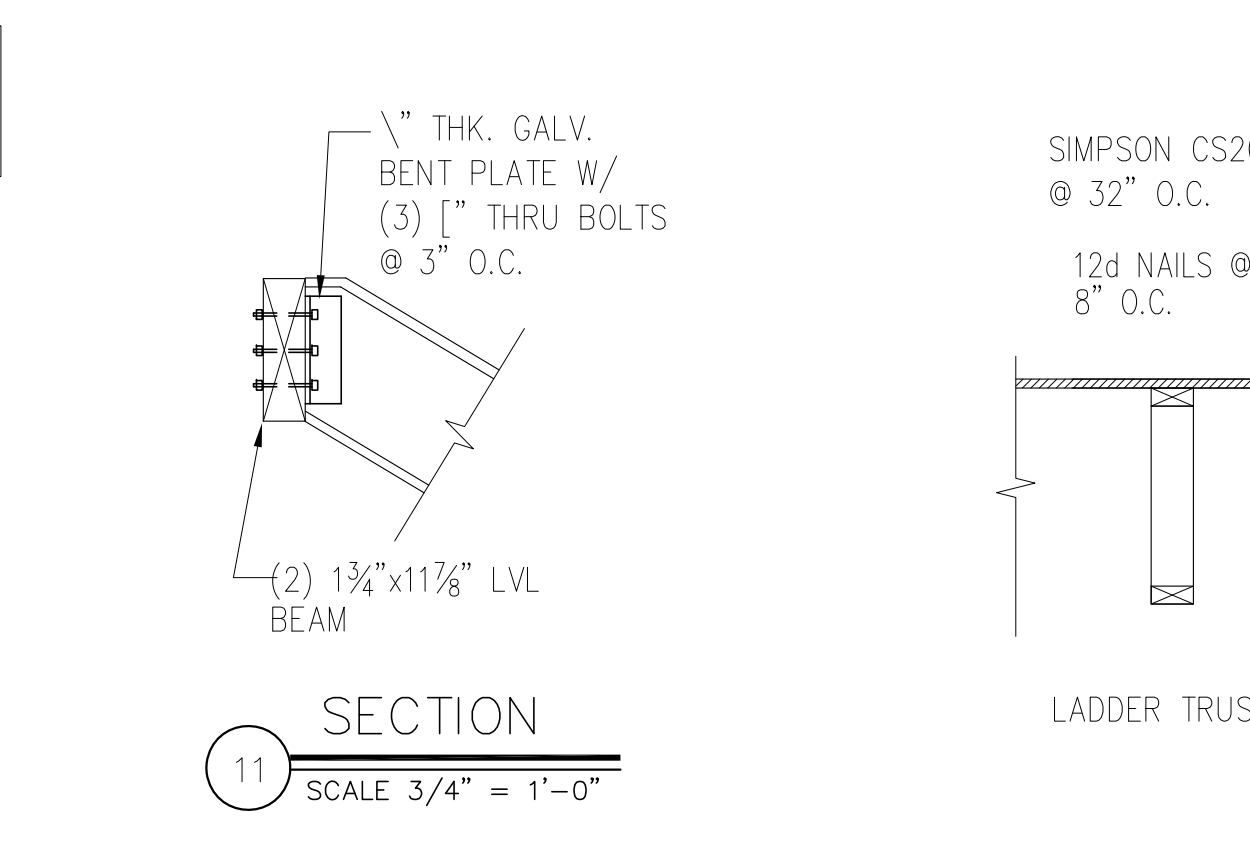
8 SECTION @ CANTILEVER TRUSS
SCALE 3/4" = 1'-0"



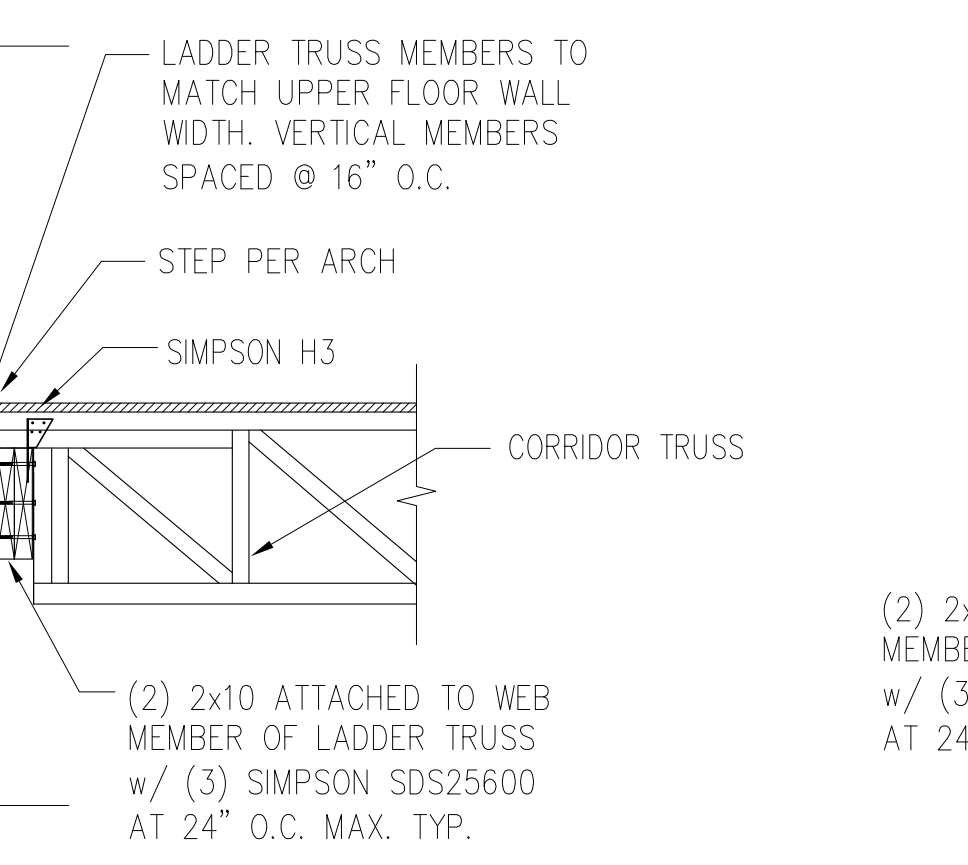
9 TYP. TRUSS TO FRAME WALL
SCALE 3/4" = 1'-0"



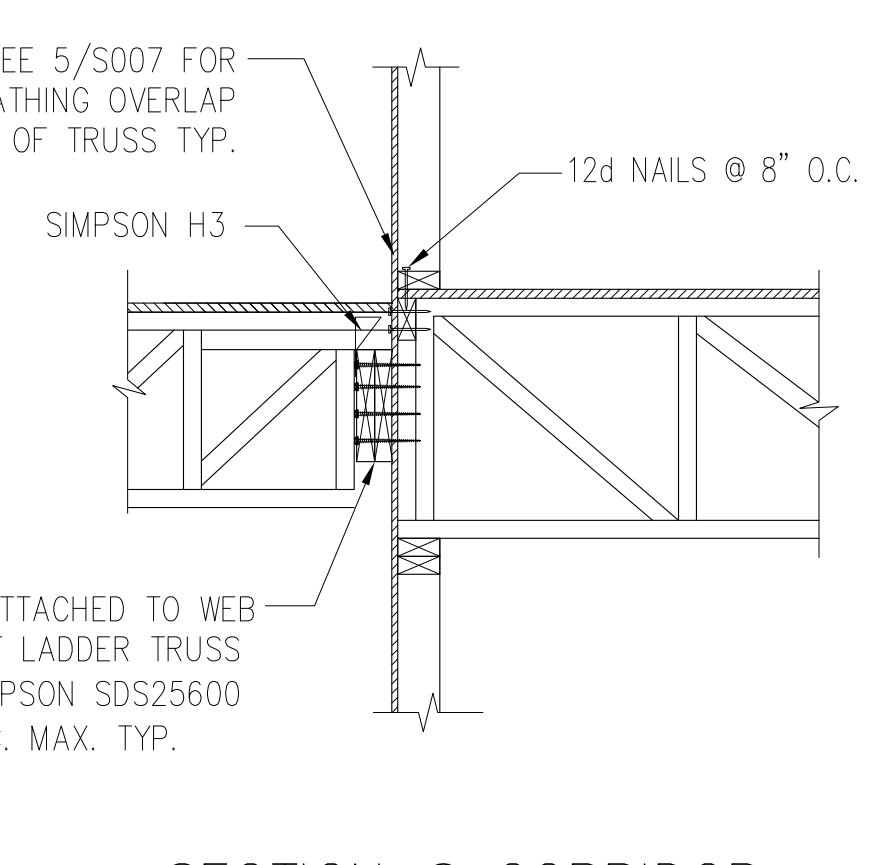
10 SECTION
SCALE 3/4" = 1'-0"



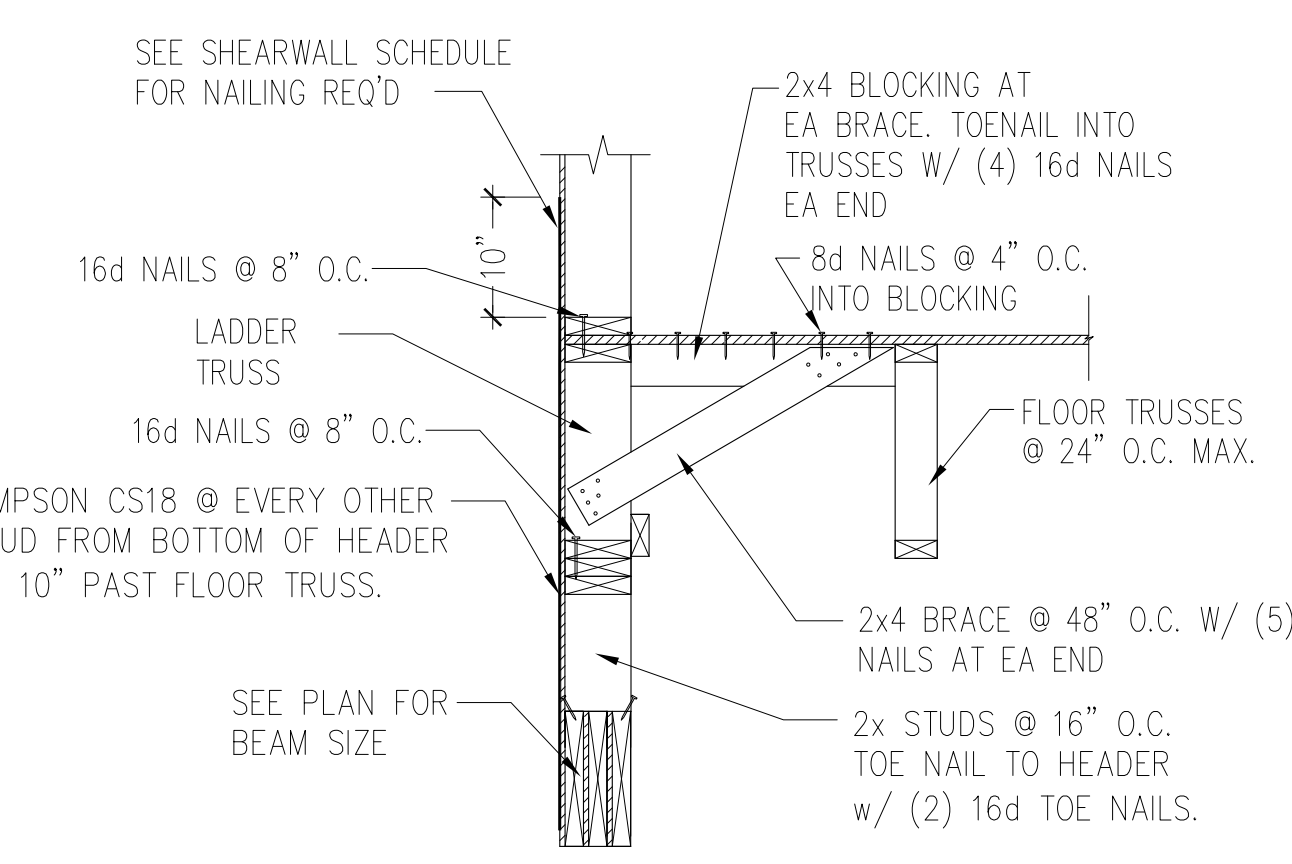
11 SECTION
SCALE 3/4" = 1'-0"



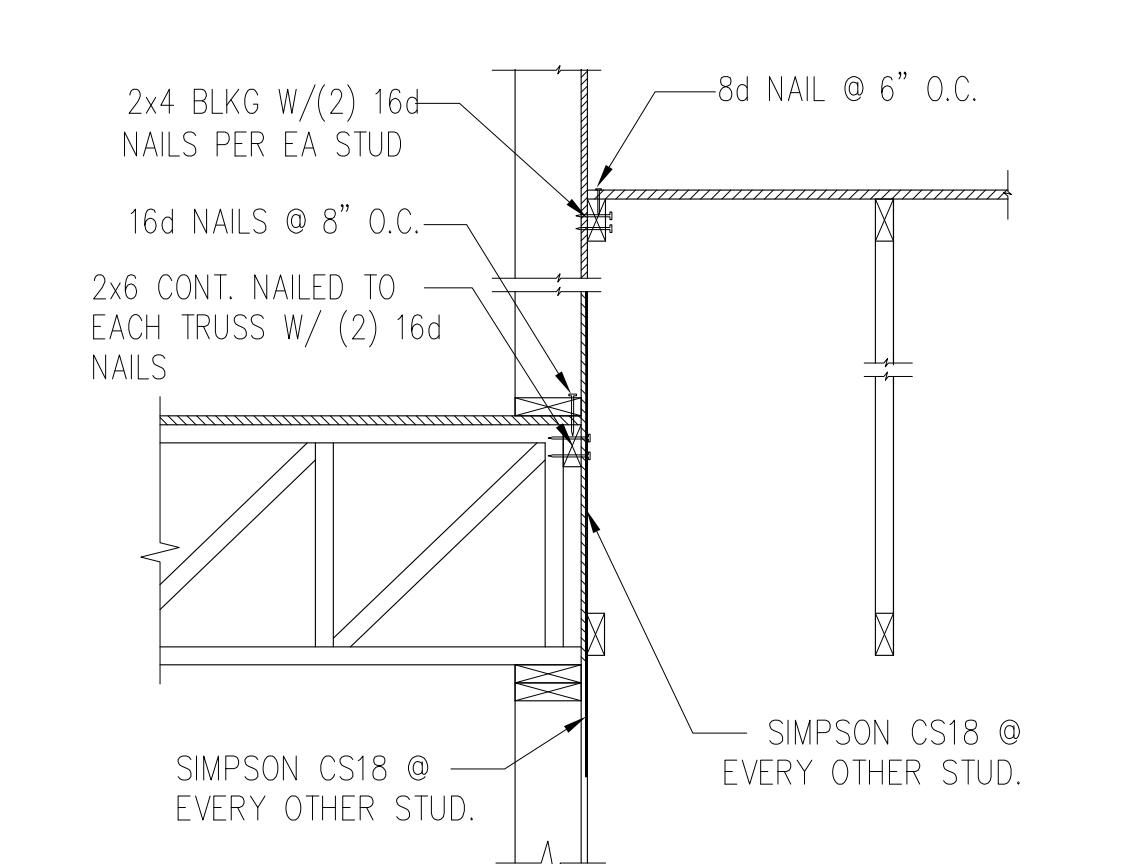
12 SECTION @ CORRIDOR
SCALE 3/4" = 1'-0"



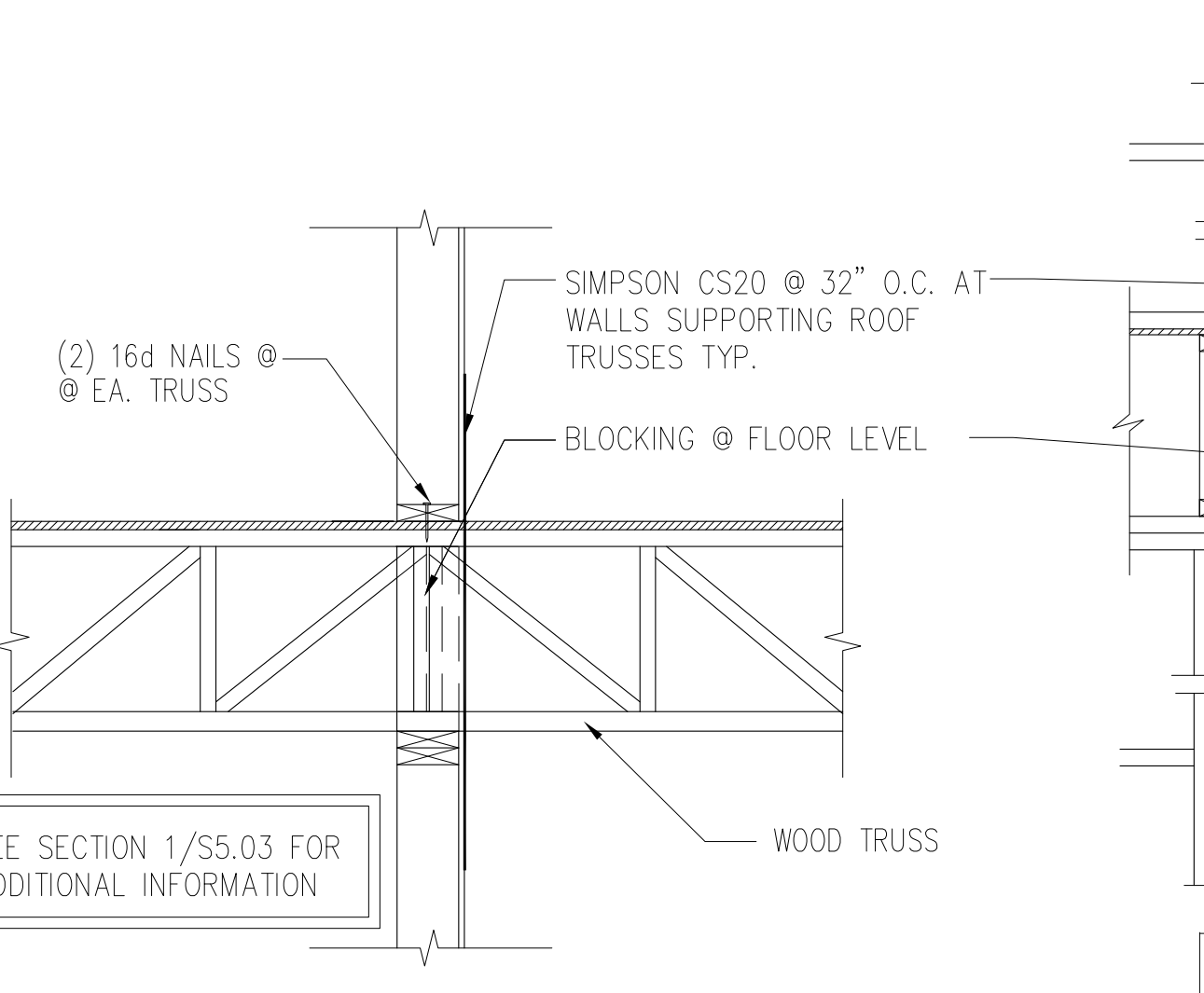
13 SECTION @ CORRIDOR
SCALE 3/4" = 1'-0"



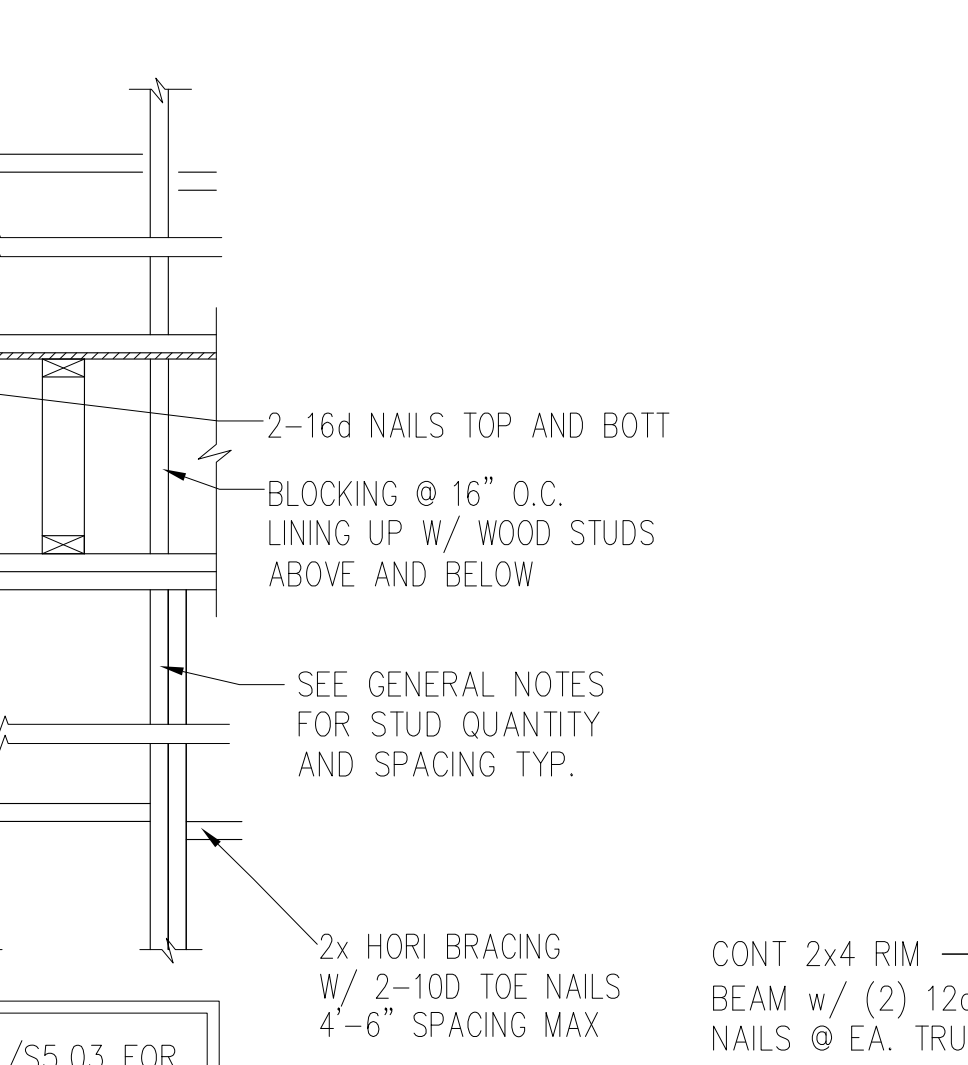
14 SECTION AT PARALEL TRUSS OVER GARAGE
SCALE 3/4" = 1'-0"



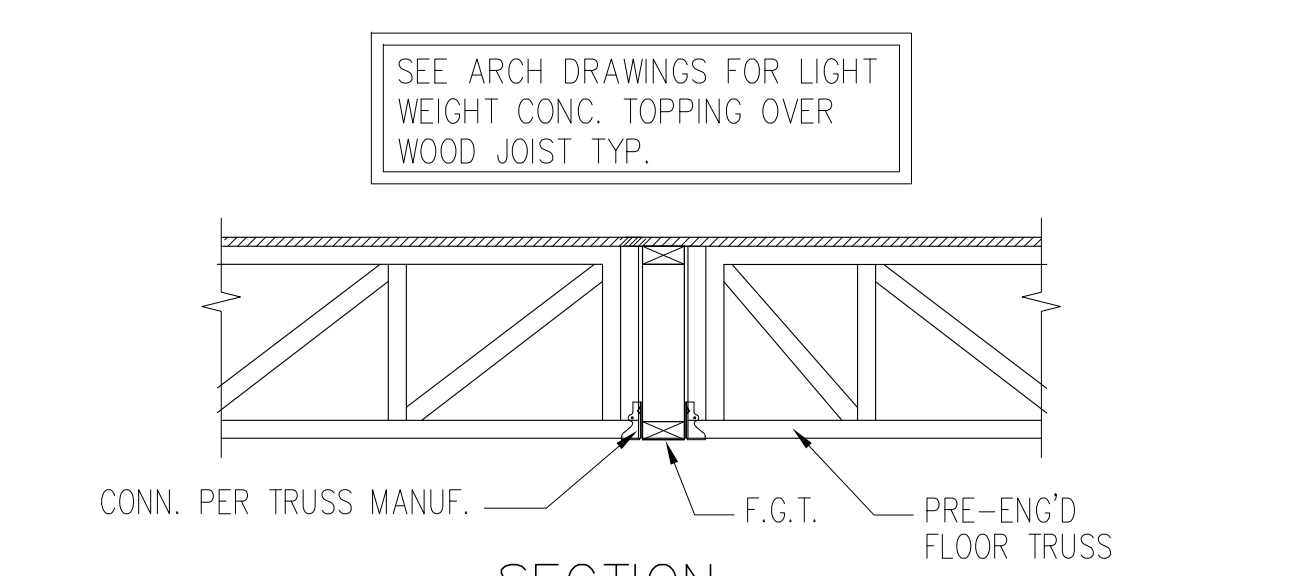
15 SECTION
SCALE 3/4" = 1'-0"



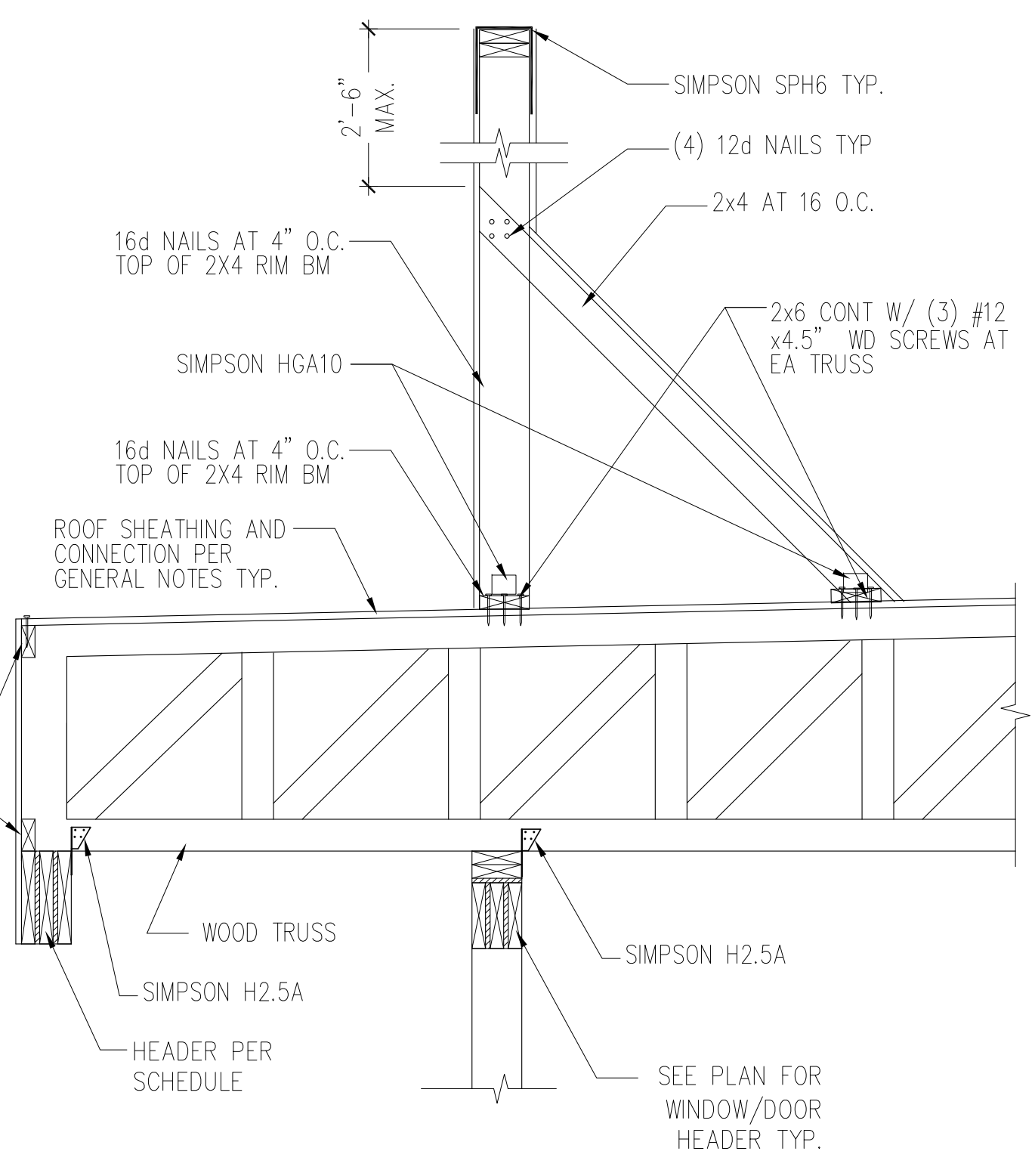
16 TYP. BLOCKING AT BEARING WALLS
SCALE 3/4" = 1'-0"



17 TYP. BLOCKING AT BEARING WALLS
SCALE 3/4" = 1'-0"



18 SECTION
SCALE 3/4" = 1'-0"



19 TYP. SECTION @ PARAPET WALL
SCALE 3/4" = 1'-0"

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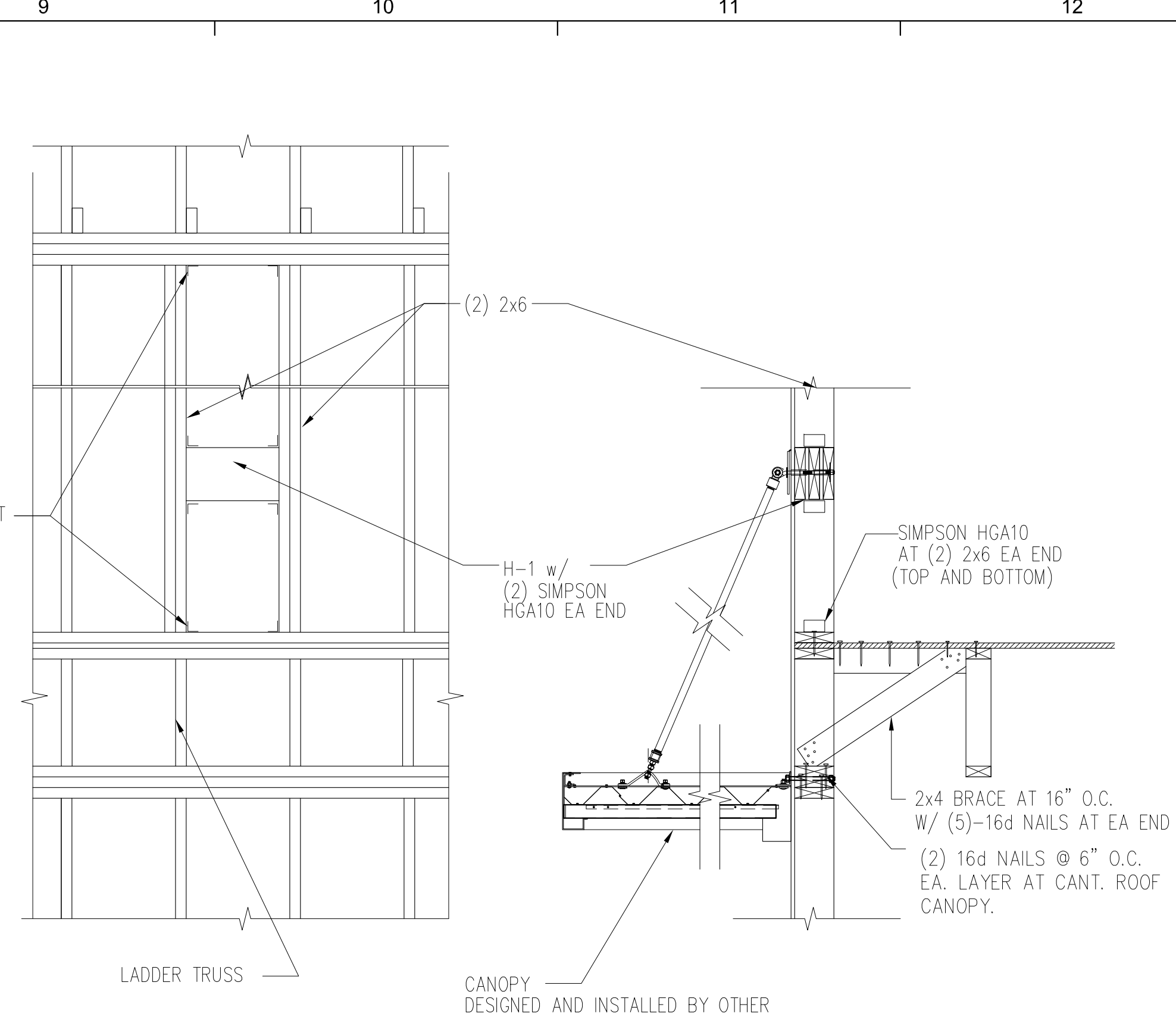
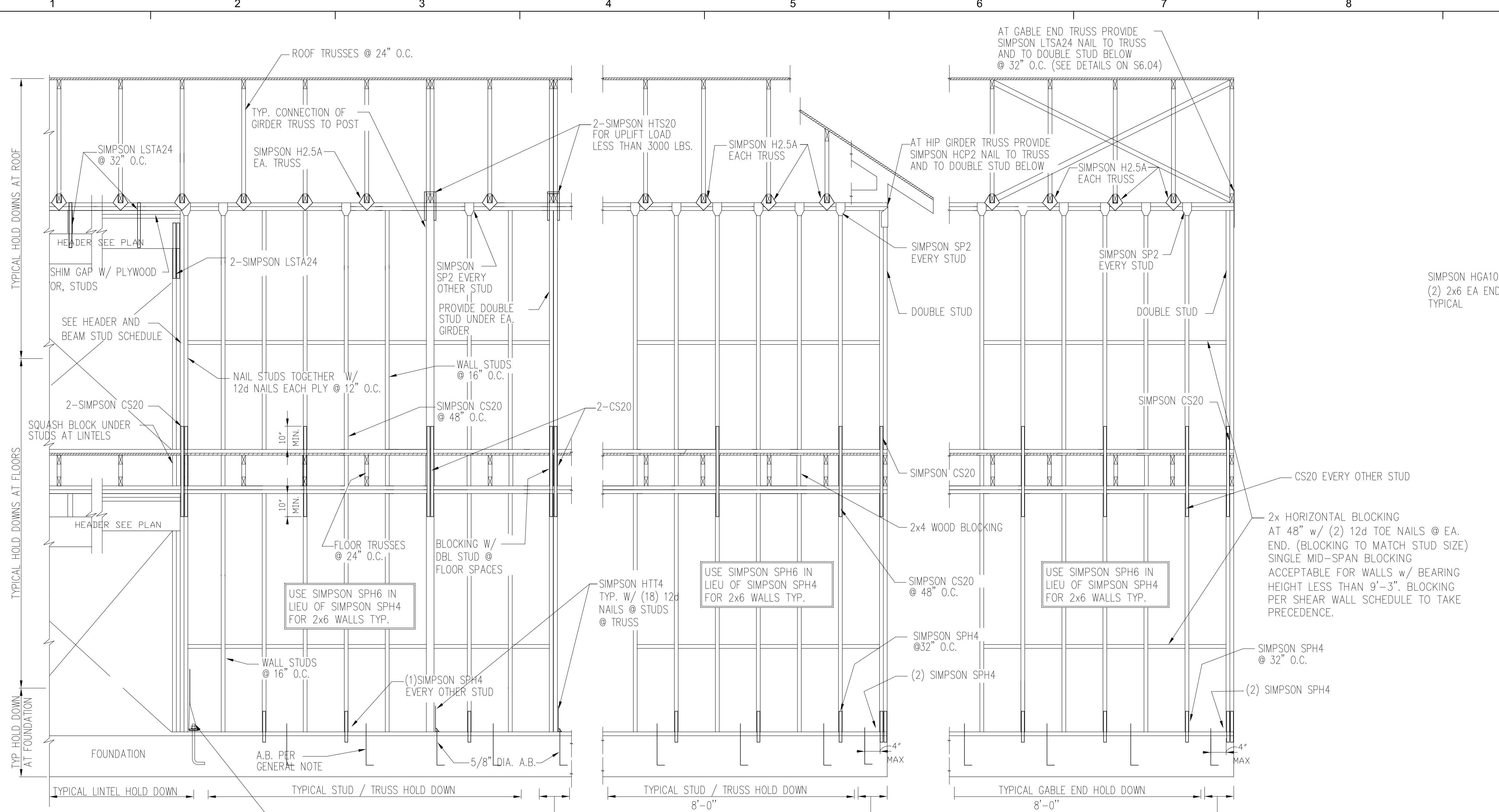
THE ROBERT MADISON
MADISON, ALABAMA

Drawn: CW
Checked: CW
Approved: MX
Date: 02-20-22
Project #: XXX-XXX

SECTION AND DETAILS BLDG TYPES A, B & C

S5.02

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2 TYP CANOPY ATTACHMENT DETAIL
SCALE: N.T.S.

MINIMUM WALL AND HEADER STUD REQUIREMENTS

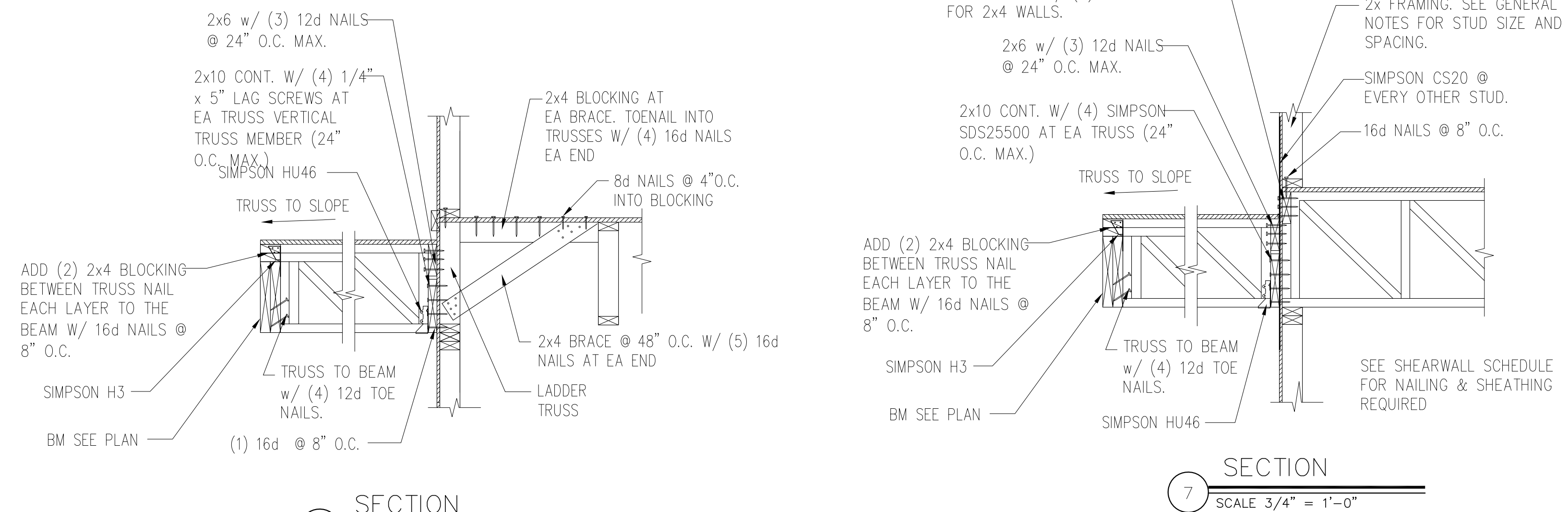
UNSUPPORTED WALL HEIGHT	STUD SPACING	MAXIMUM HEADER SPAN (FEET)			
		3	6	9	12
10' OR LESS	12"	2	2	3	3
	16"	2	2	3	3
	24"	1	2	2	2
GREATER THAN 10'	12"	2	2	3	4
	16"	2	2	3	3
	24"	1	2	2	2

*THE HEADER STUD SHALL NOT BE REQUIRED IF THE HEADER IS SUPPORTED BY A SUITABLE FRAMING ANCHOR

8 HEADER AND BEAM STUD SCHEDULE
SCALE: 3/4" = 1'-0"

NOTE:
ALL CONNECTORS SPECIFIED ON THIS SHEET ARE SUGGESTED AND MAY BE REPLACED BY OTHER MODELS OR MANUFACTURERS ONLY IF THEY MEET OR EXCEED MIN. UPLIFT REQUIREMENTS DESCRIBED IN PROJECT DOCUMENTS, INCLUDING SHOP DRAWINGS.
ANCHORAGE/STRAPPING FOR ENDS OF SHEAR WALLS IS NOT SHOWN AND IS IN ADDITION TO THAT SHOWN HERE.

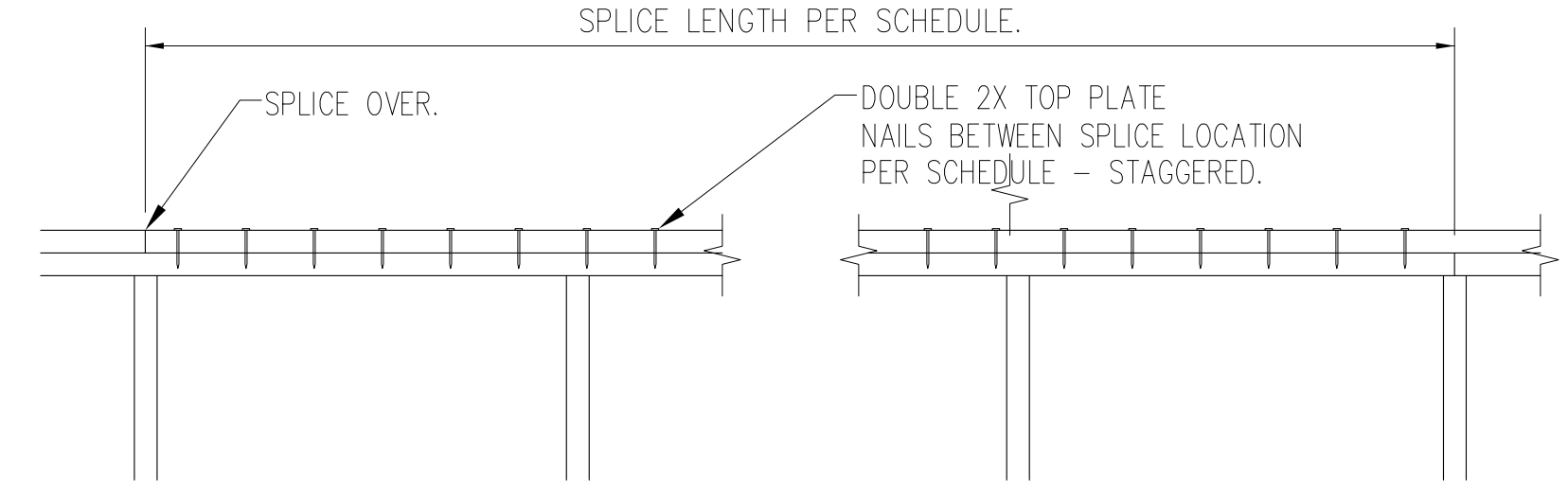
1 TYP. STUD WALL HOLD-DOWN
SCALE: 3/4" = 1'-0"



6 SECTION
SCALE: N.T.S.

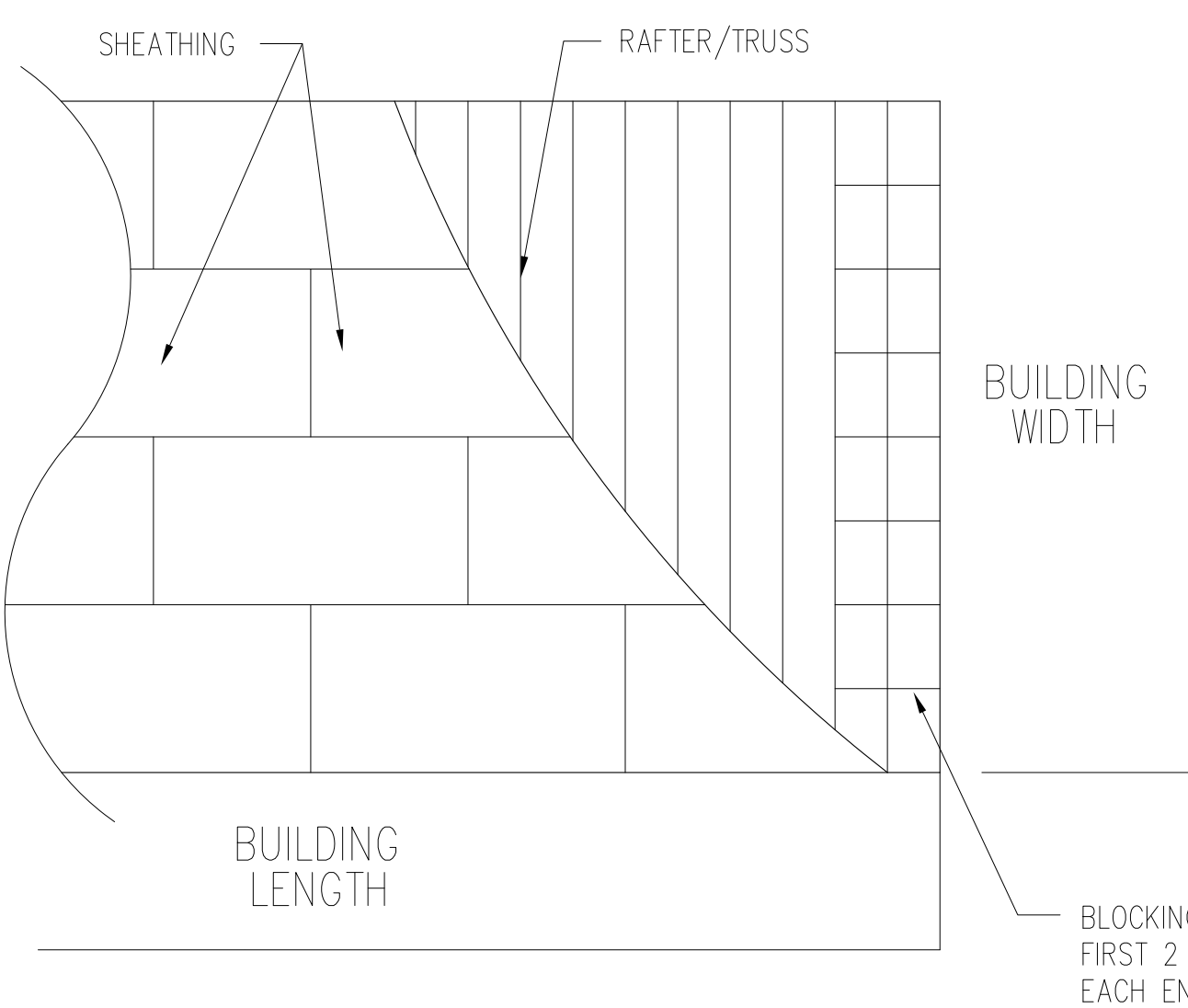
7 SECTION
SCALE: 3/4" = 1'-0"

- NOTES:
- DO NOT SPLICE TOP PLATES WITHIN 6'-0" OF ENDS OF WOOD STRUCTURAL PANEL SHEAR WALLS.
 - THIS DETAIL APPLIES AT ALL EXTERIOR WALLS AND INTERIOR SHEARWALLS.

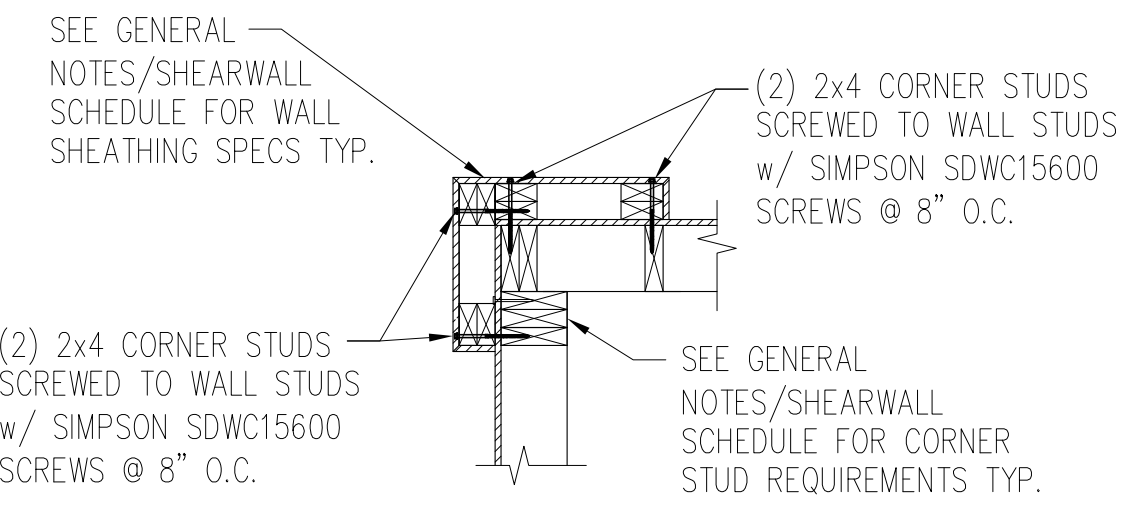


LENGTH OF WALL (BETWEEN CORNERS)	SPLICE LENGTH (MINIMUM)	NAILS ALONG SPLICE LENGTH
OVER 30'	4'-0"	18-16d
OVER 20'	2'-6"	10-16d
OVER 10'	1'-4"	6-16d
LESS THAN 10'	1'-4"	4-16d

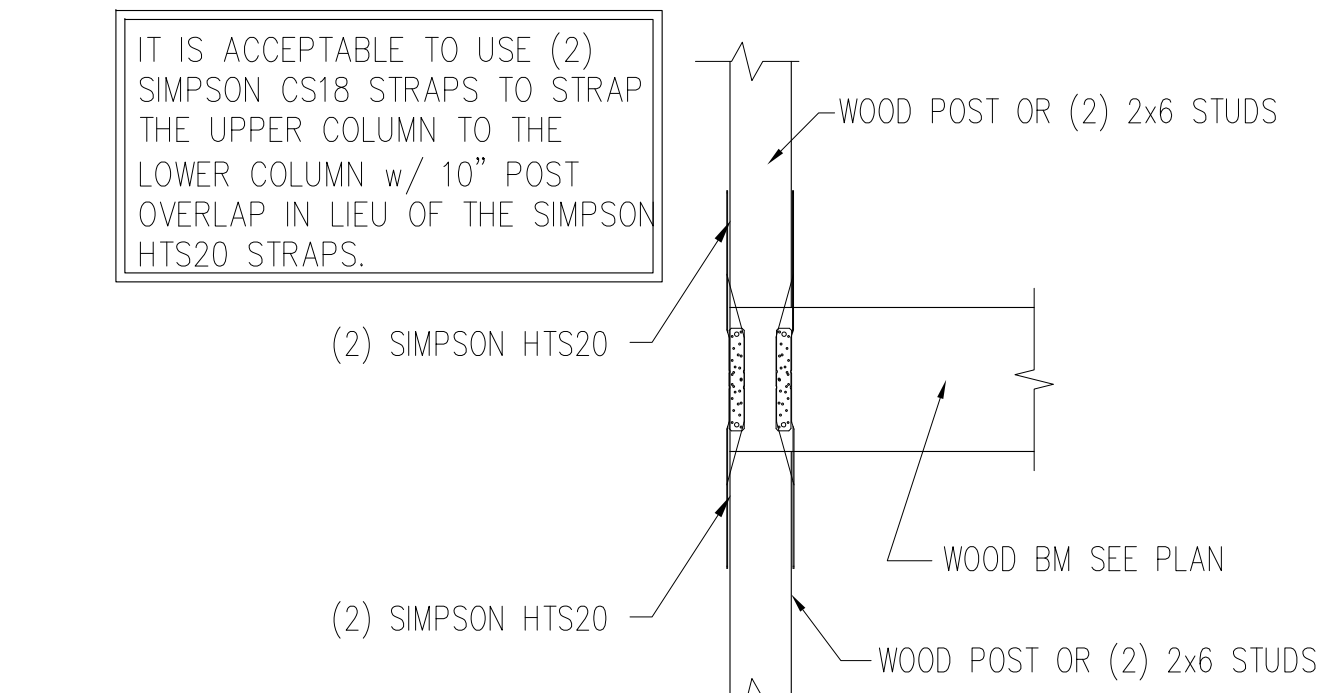
10 TYPICAL TOP PLATE SPLICE
SCALE: 3/4" = 1'-0"



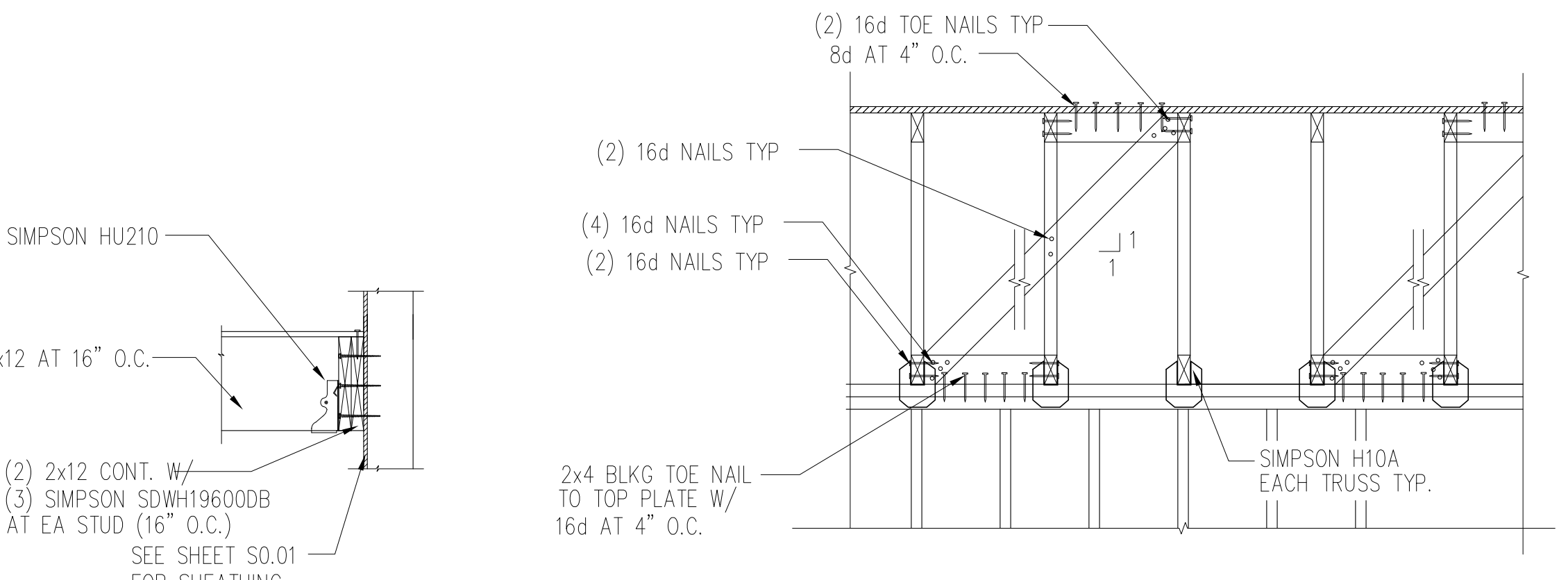
11 ROOF SHEATHING LAYOUT
SCALE: N.T.S.



12 OUTSIDE CORNER - PANEL SHADOW BOX
SCALE: 3/4" = 1'-0"



5 SECTION
SCALE: 3/4" = 1'-0"



8 SECTION
SCALE: 3/4" = 1'-0"

9 TYP. ROOF TRUSS BRACING AT PERPENDICULAR SHEAR WALL
SCALE: 3/4" = 1'-0"

ISSUE HISTORY

No.	Date	Description
1	04/15/22	PERMIT SUBMISSION

REVISION HISTORY

No.	Date	Description
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Certificate of Authorization No. 25873

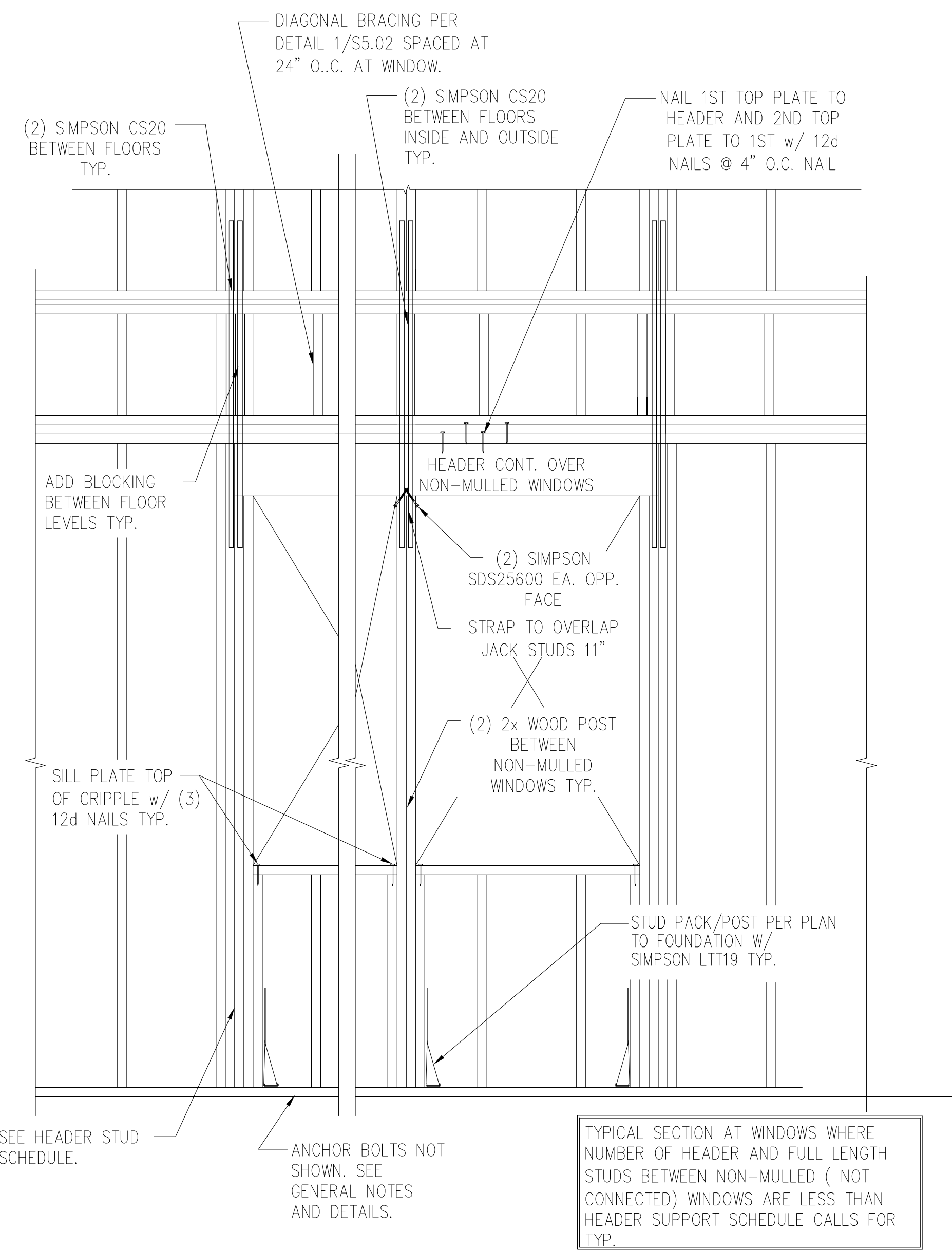
Wynyl Hu P.E.
Alabama No. 28652

ALABAMA LICENSED PROFESSIONAL
No. 28852
4/26/2021

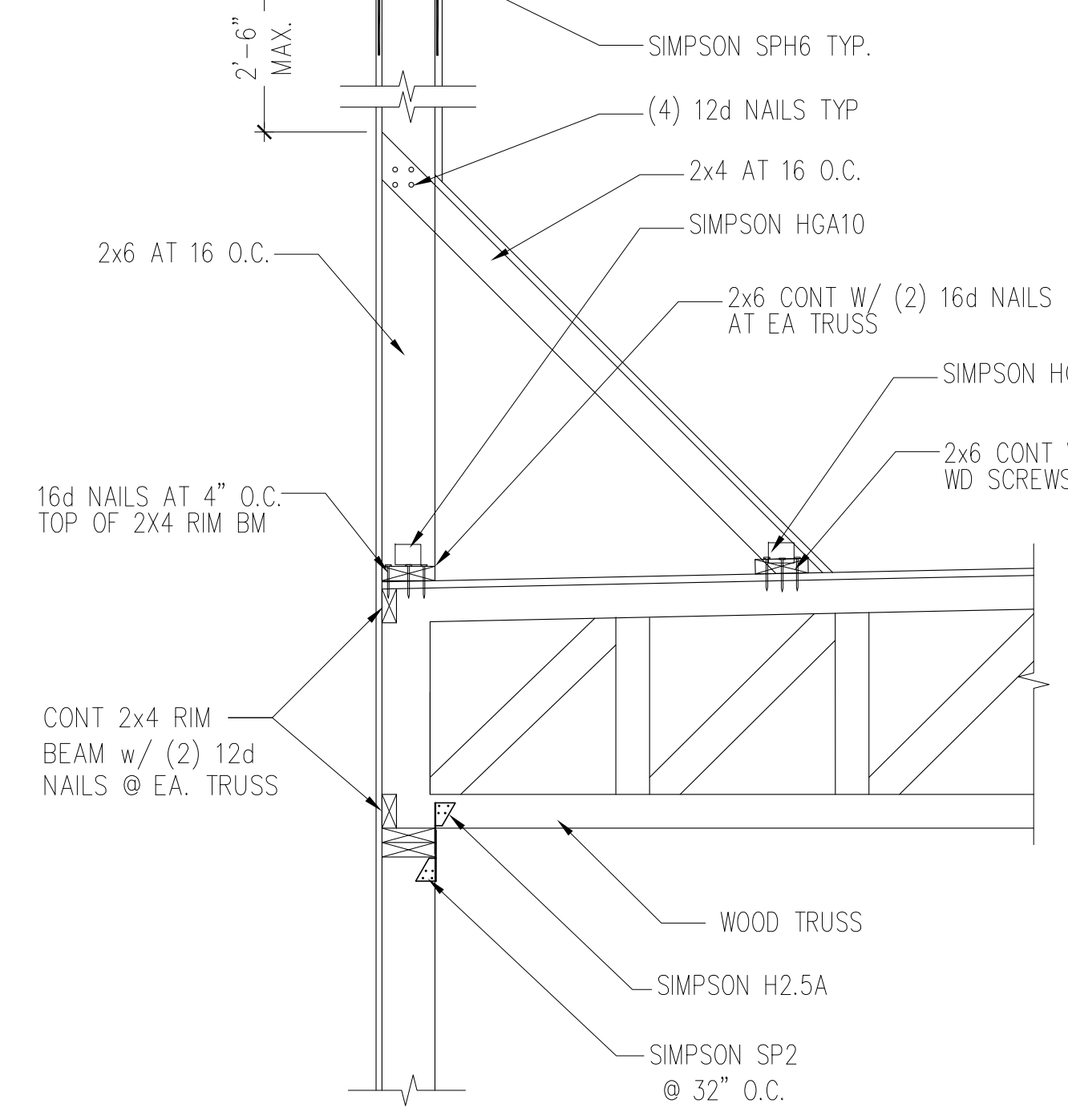
THE ROBERT MADISON
MADISON, ALABAMA

Drawn: CW
Checked: CW
Approval: MX
Date: 02-20-22
Project #: XXX-XXX

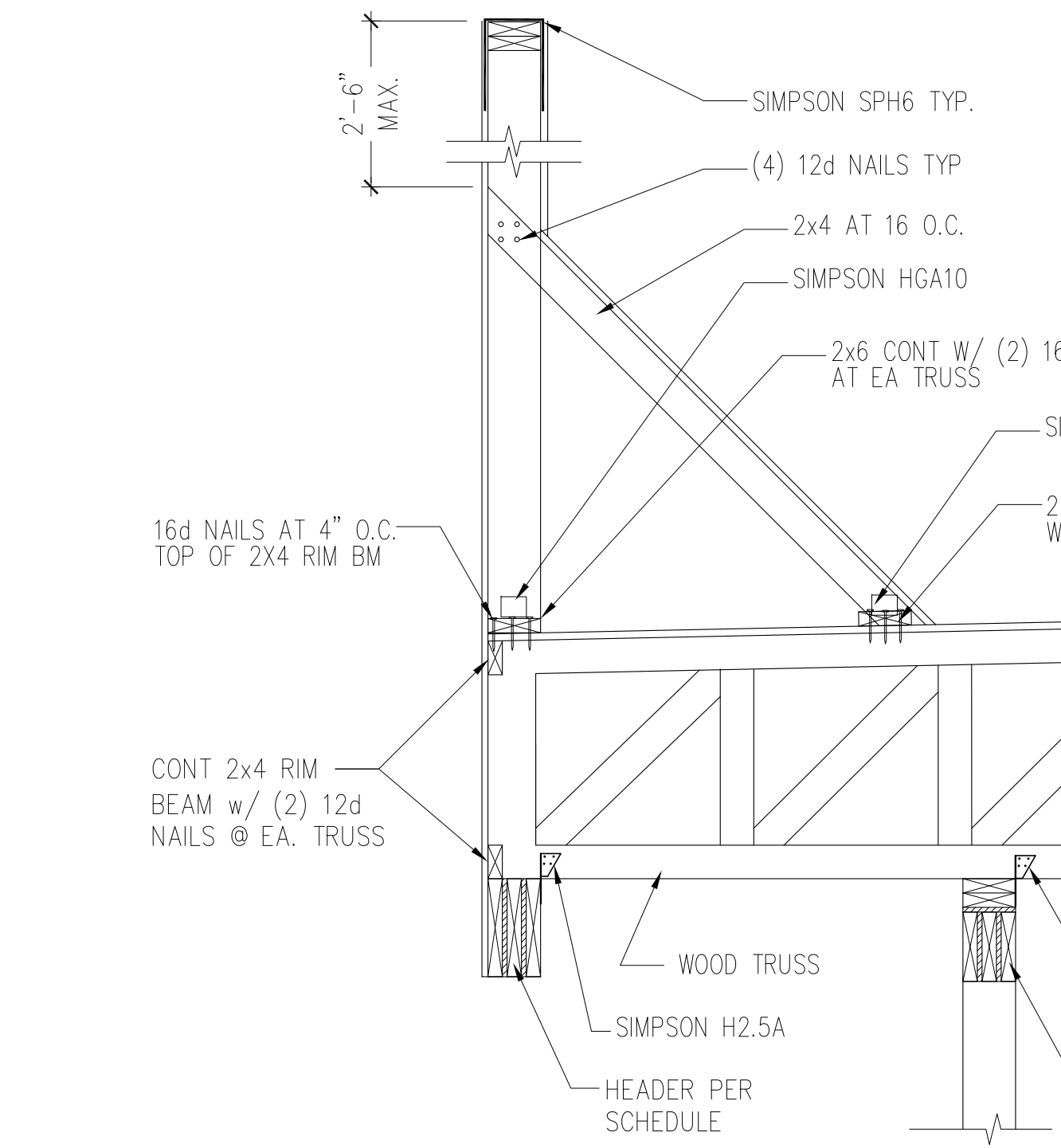
SECTION AND DETAILS
BLDG TYPES A, B & C



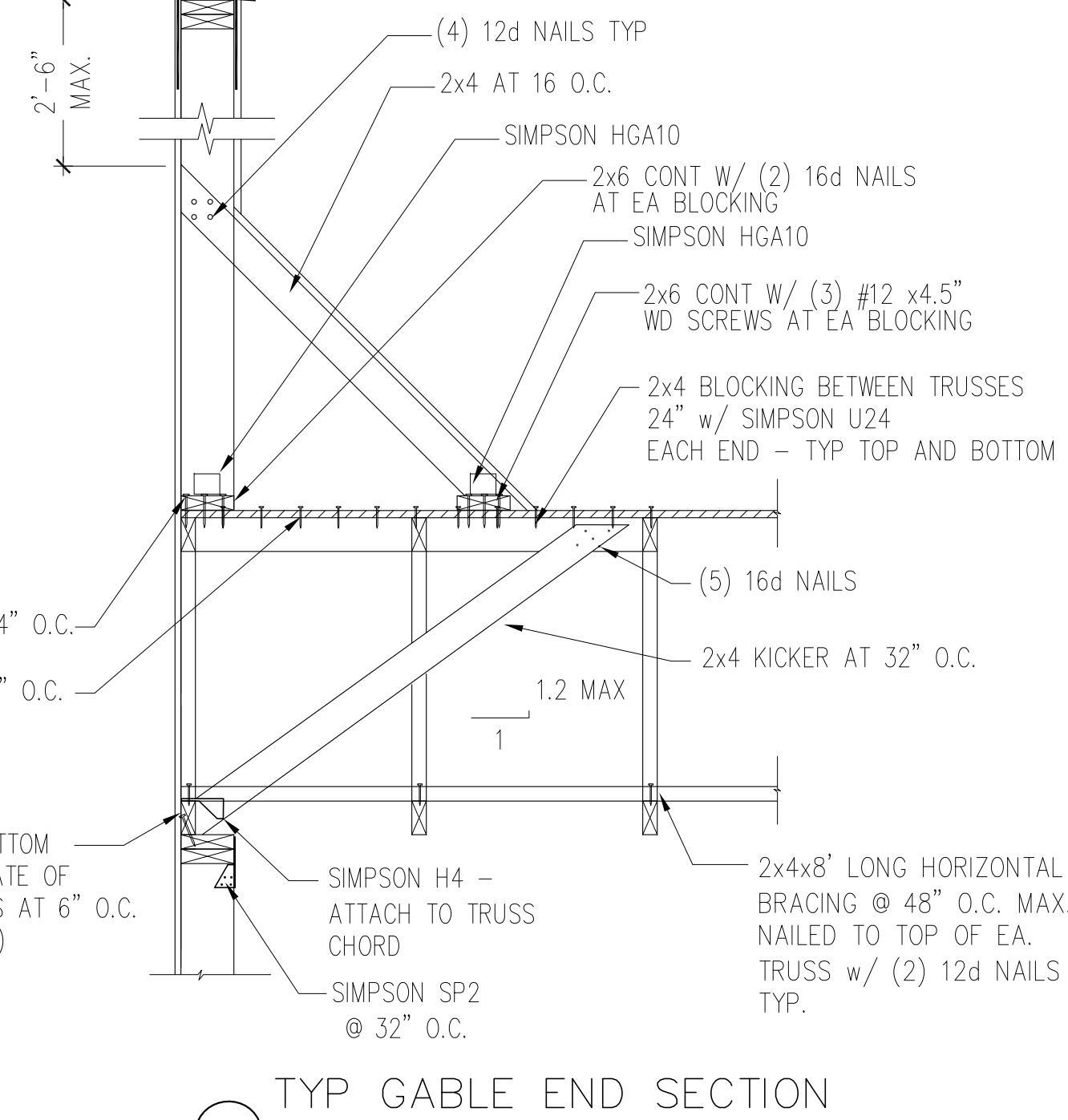
1 SECTION @ WINDOW
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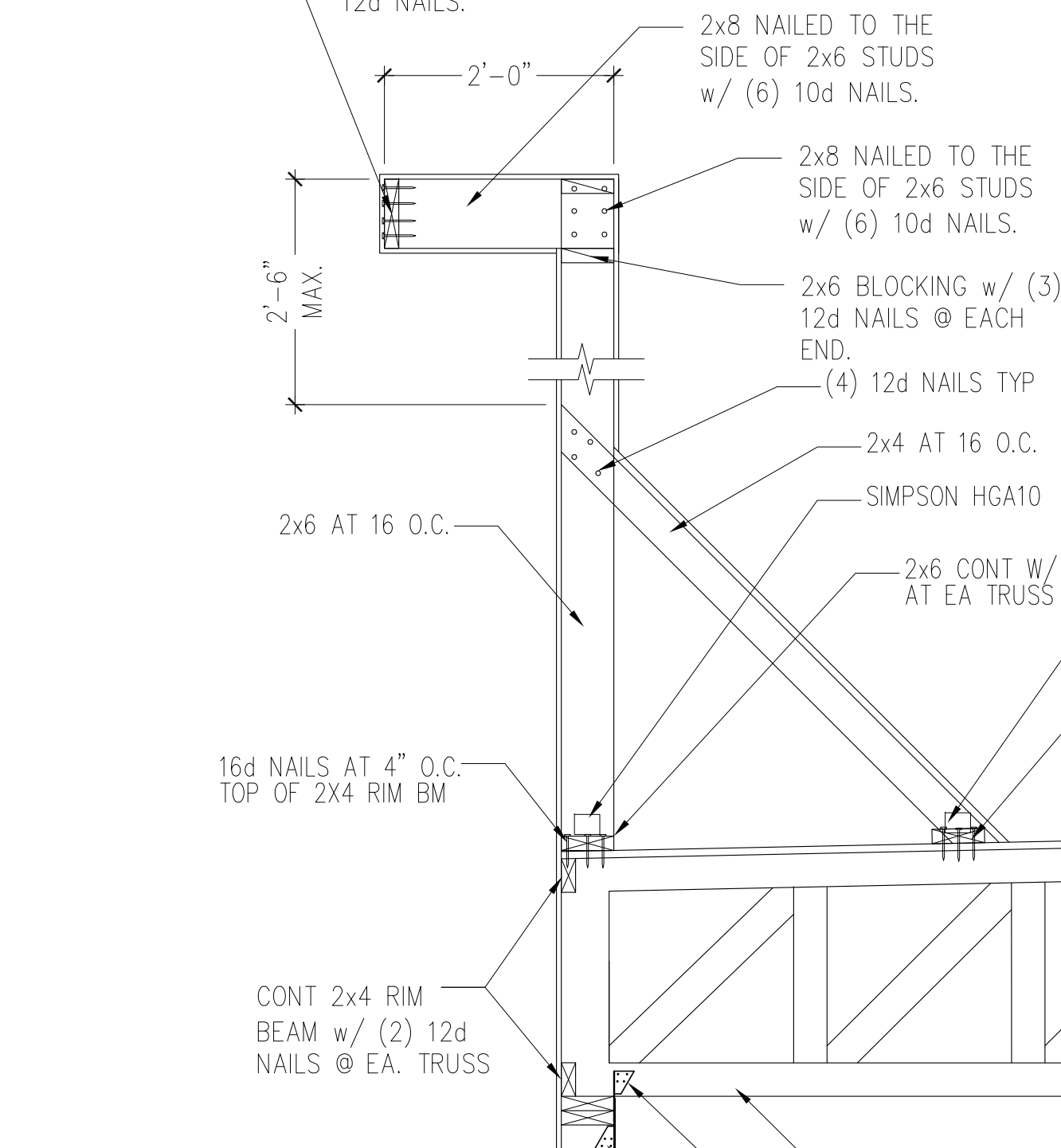
2 SECTION @ ROOF
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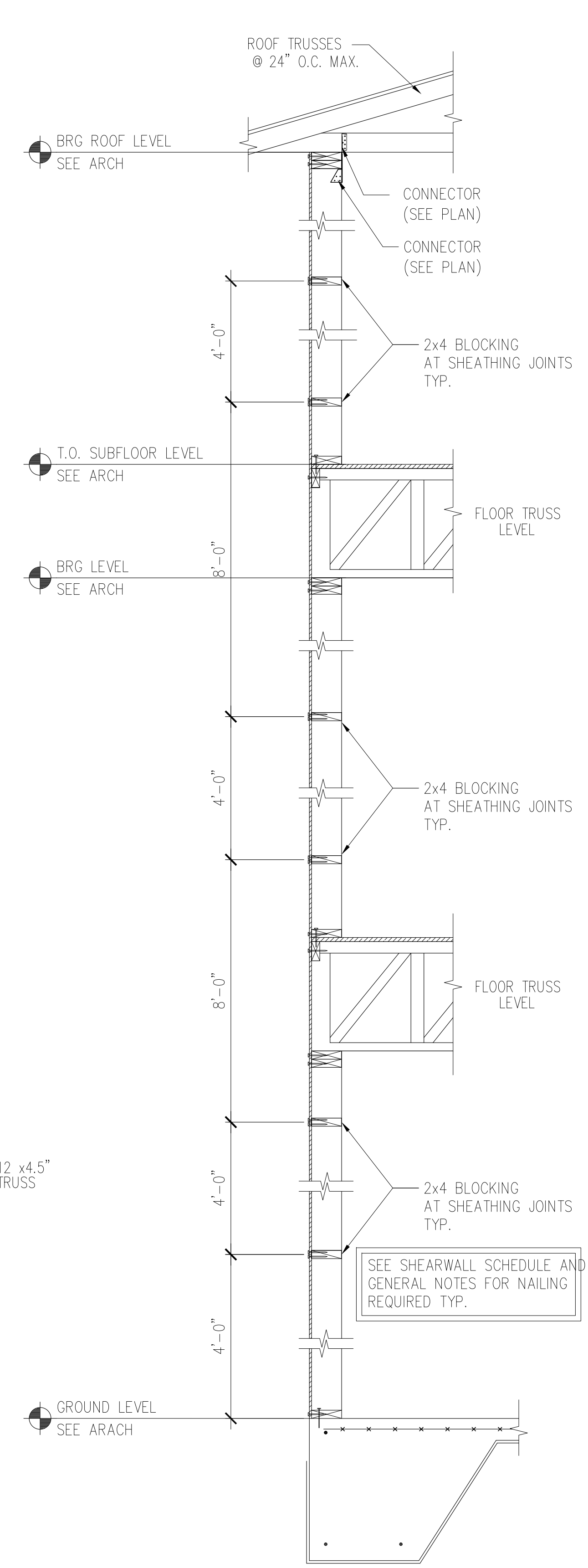
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SCALE: 3/4\"/>



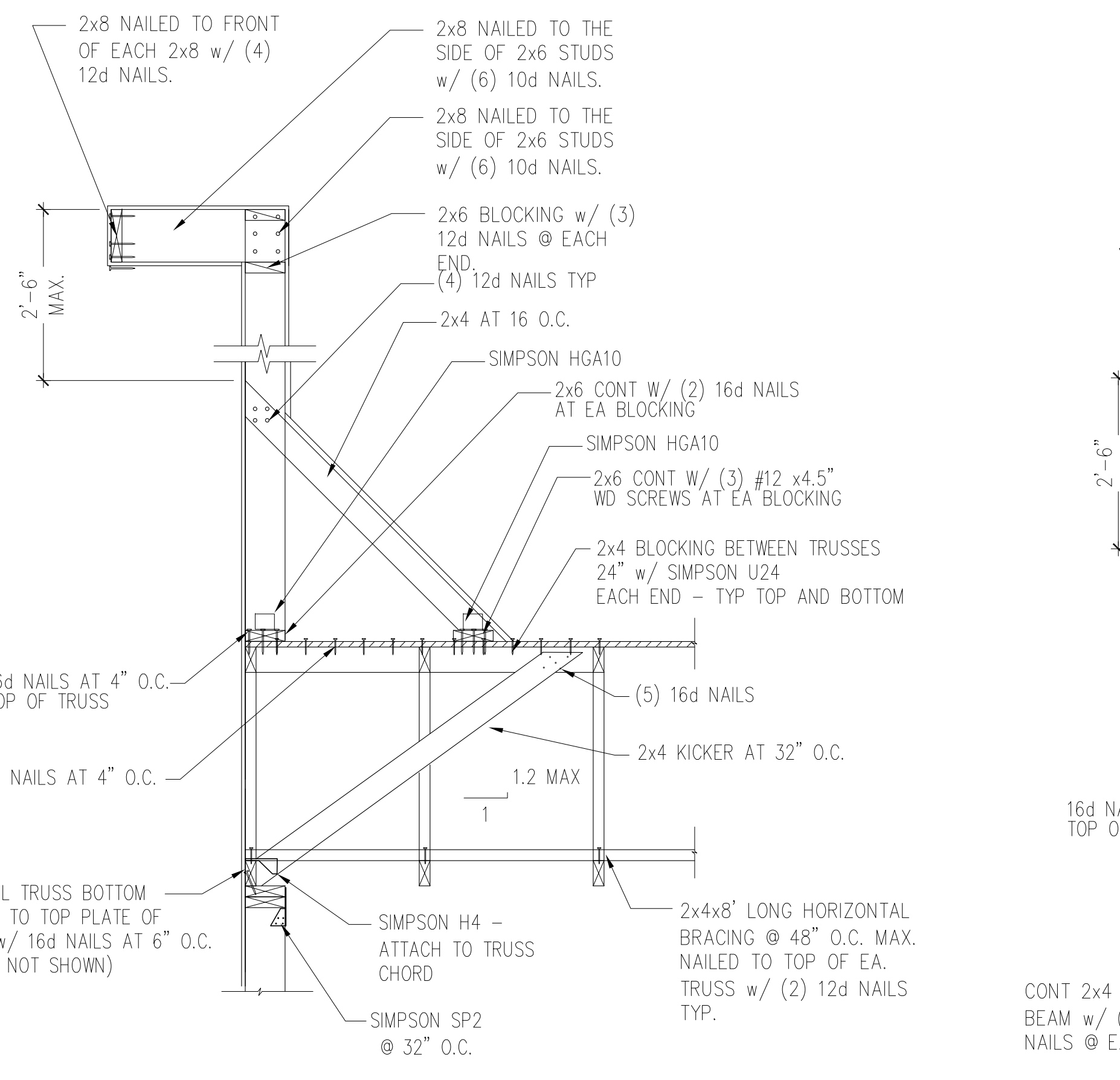
3 TYP GABLE END SECTION
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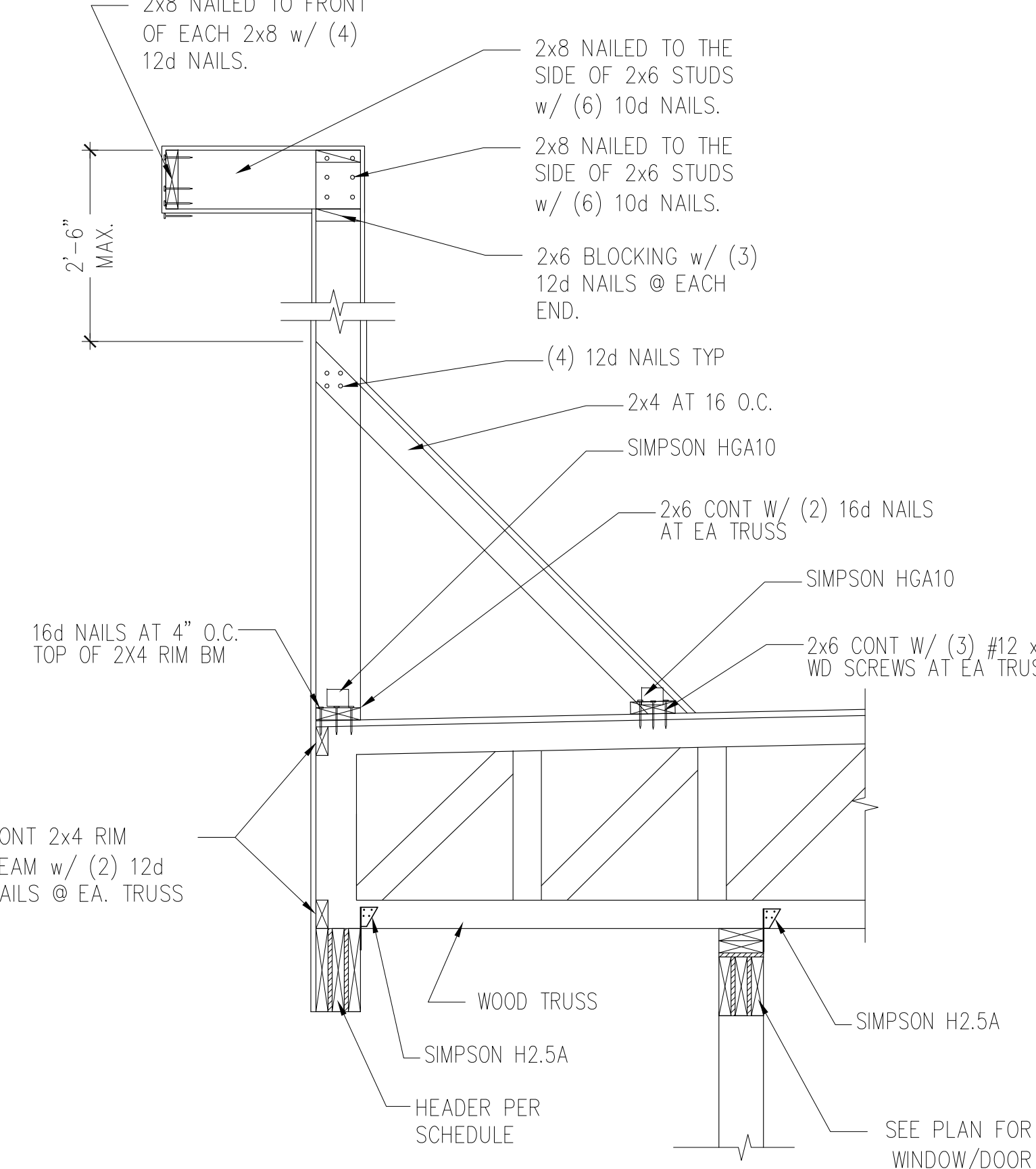
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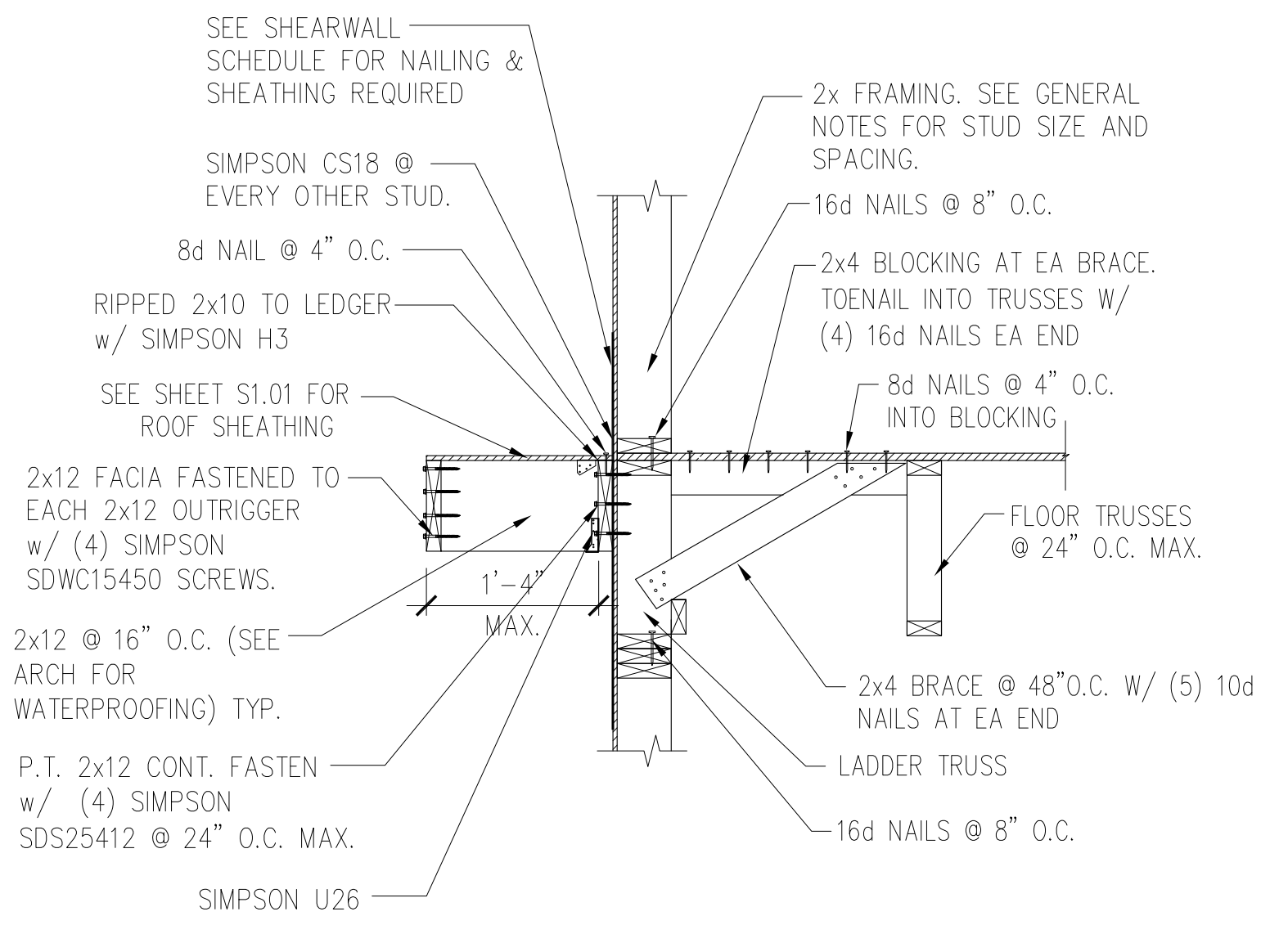
6 TYP. EXT. WALL SHEATHING AND NAILING LAYOUT
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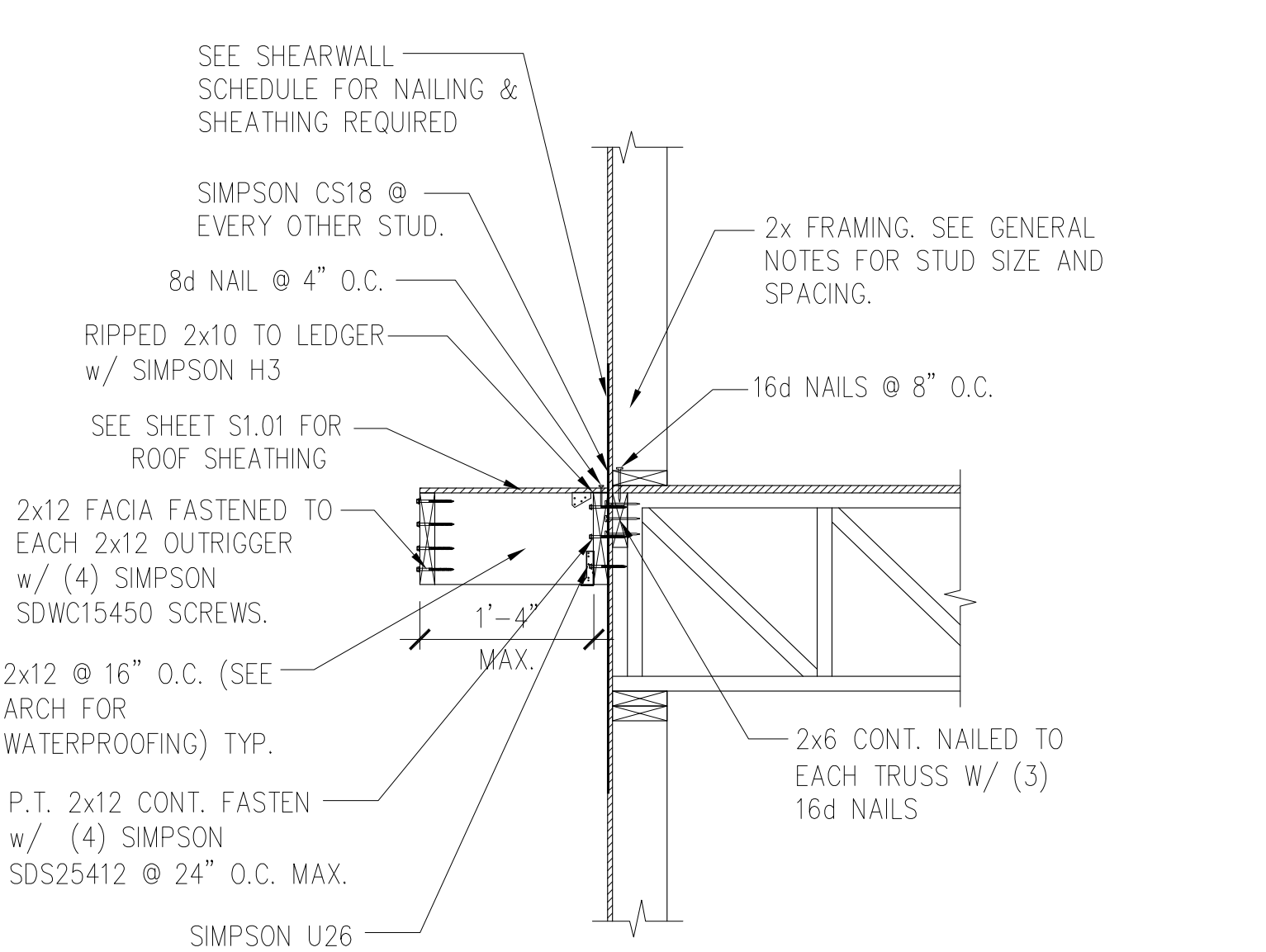
7 TYP GABLE END SECTION
SCALE: N.T.S.



8 SECTION AT ROOF
SCALE: 3/4\"/>



9 SECTION @ EYEBROW
SCALE: 3/4\"/>



10 SECTION @ EYEBROW
SCALE: 3/4\"/>

ISSUE HISTORY		
No.	Date	Description
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No.	Date	Description

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Wenji Hu P.E.
Alabama No. 26652

ALABAMA
No. 29852
Professional Engineer
4/26/2021

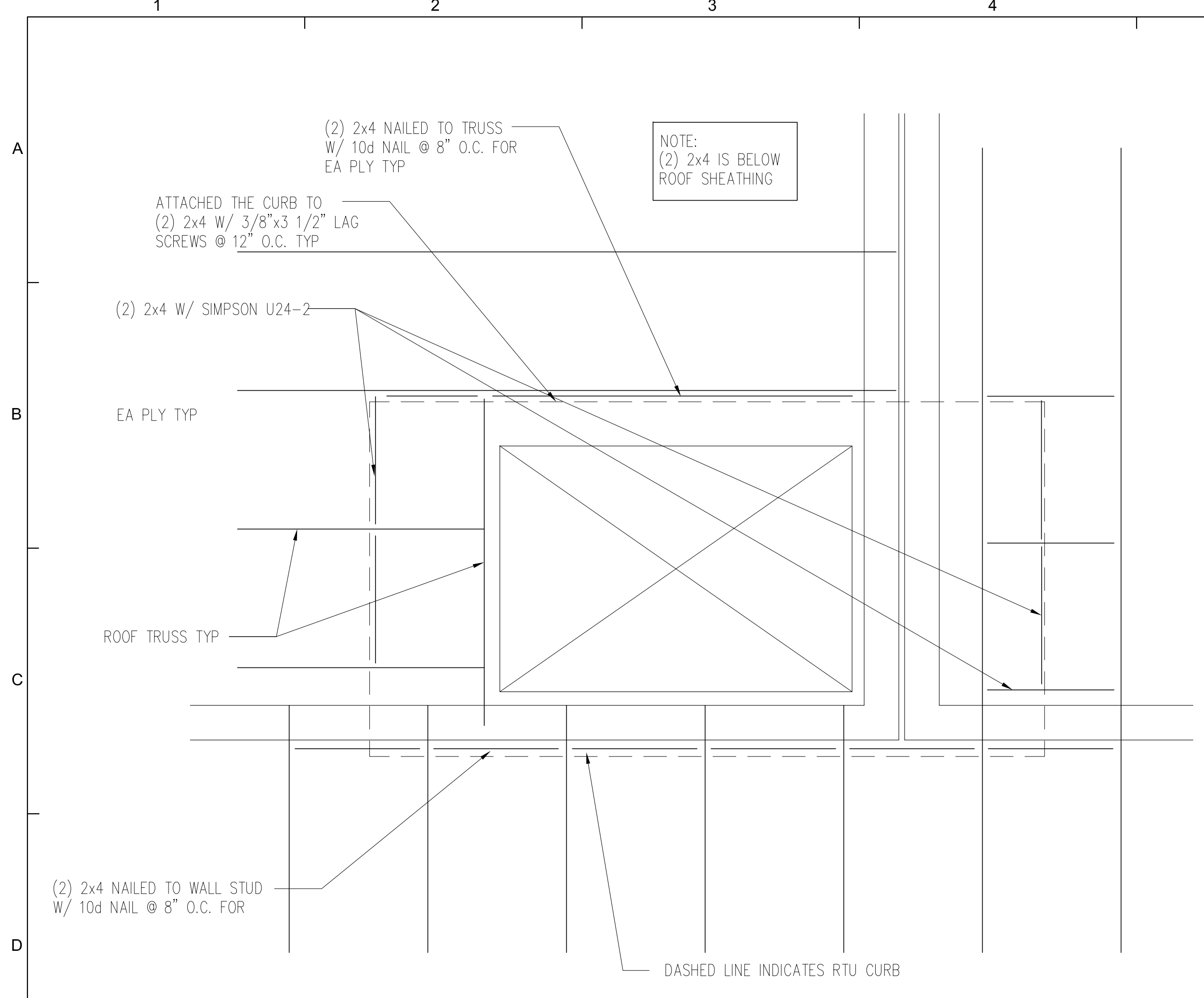
THE ROBERT MADISON
MADISON, ALABAMA
Drawn: CW
Checked: CW
Approval: MX
Date: 02-20-22
Project #: XXX-XXX

SECTION AND DETAILS BLDG TYPES A, B & C

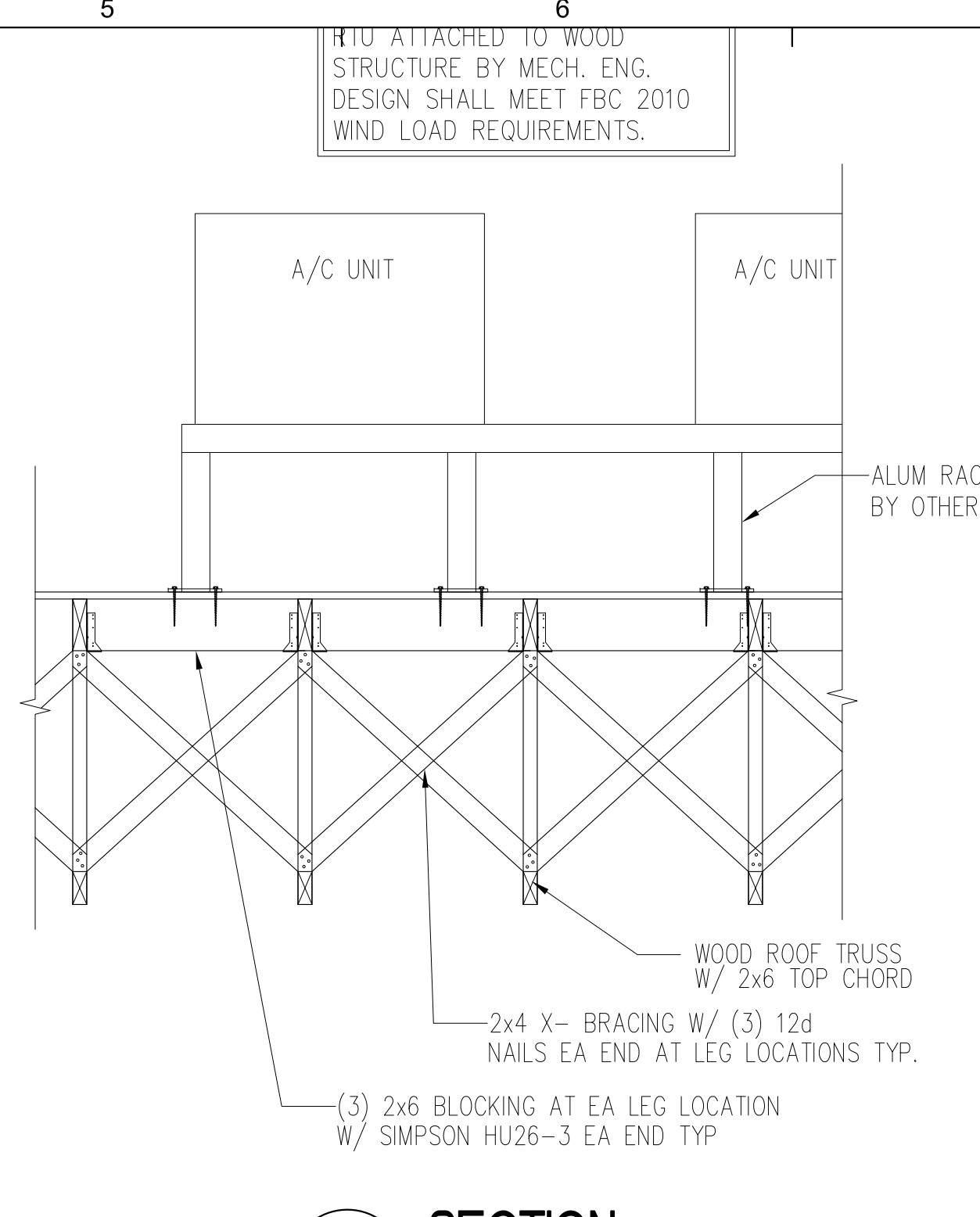
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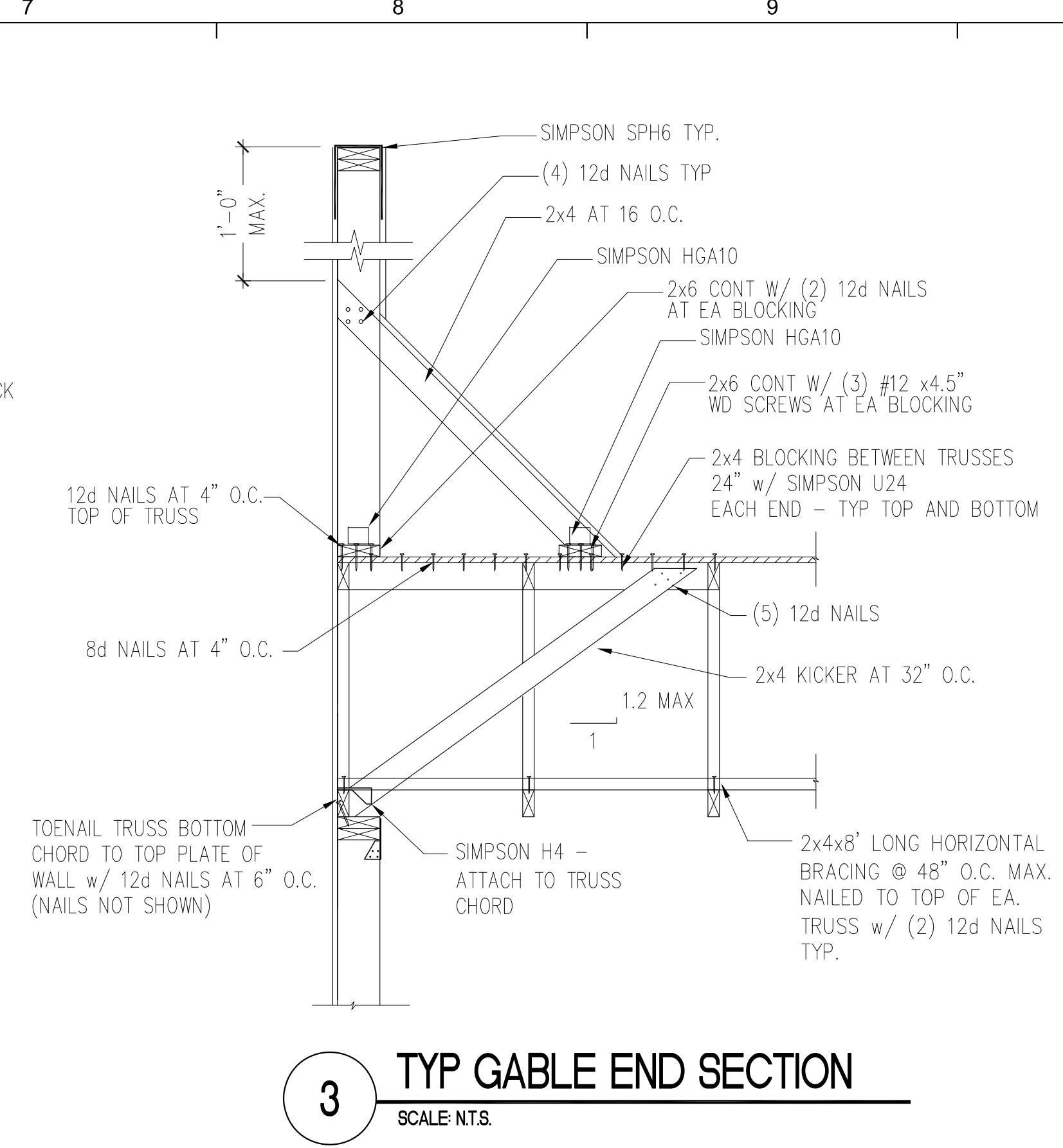
RTU ATTACHED TO WOOD STRUCTURE BY MECH. ENG. DESIGN SHALL MEET FBC 2010 WIND LOAD REQUIREMENTS.



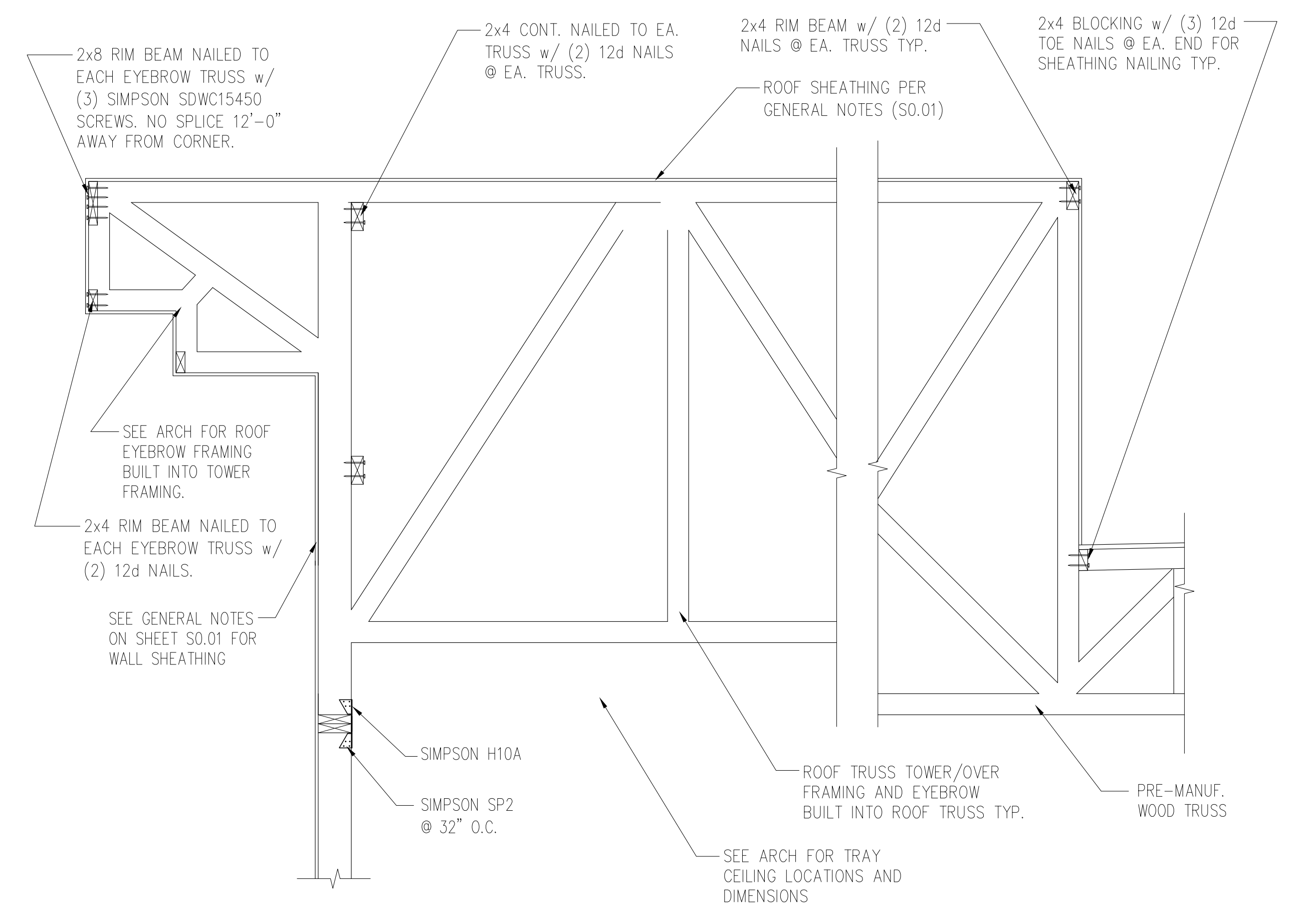
1 TYPICAL RTU ATTACHMENT DETAIL
SCALE NTS.



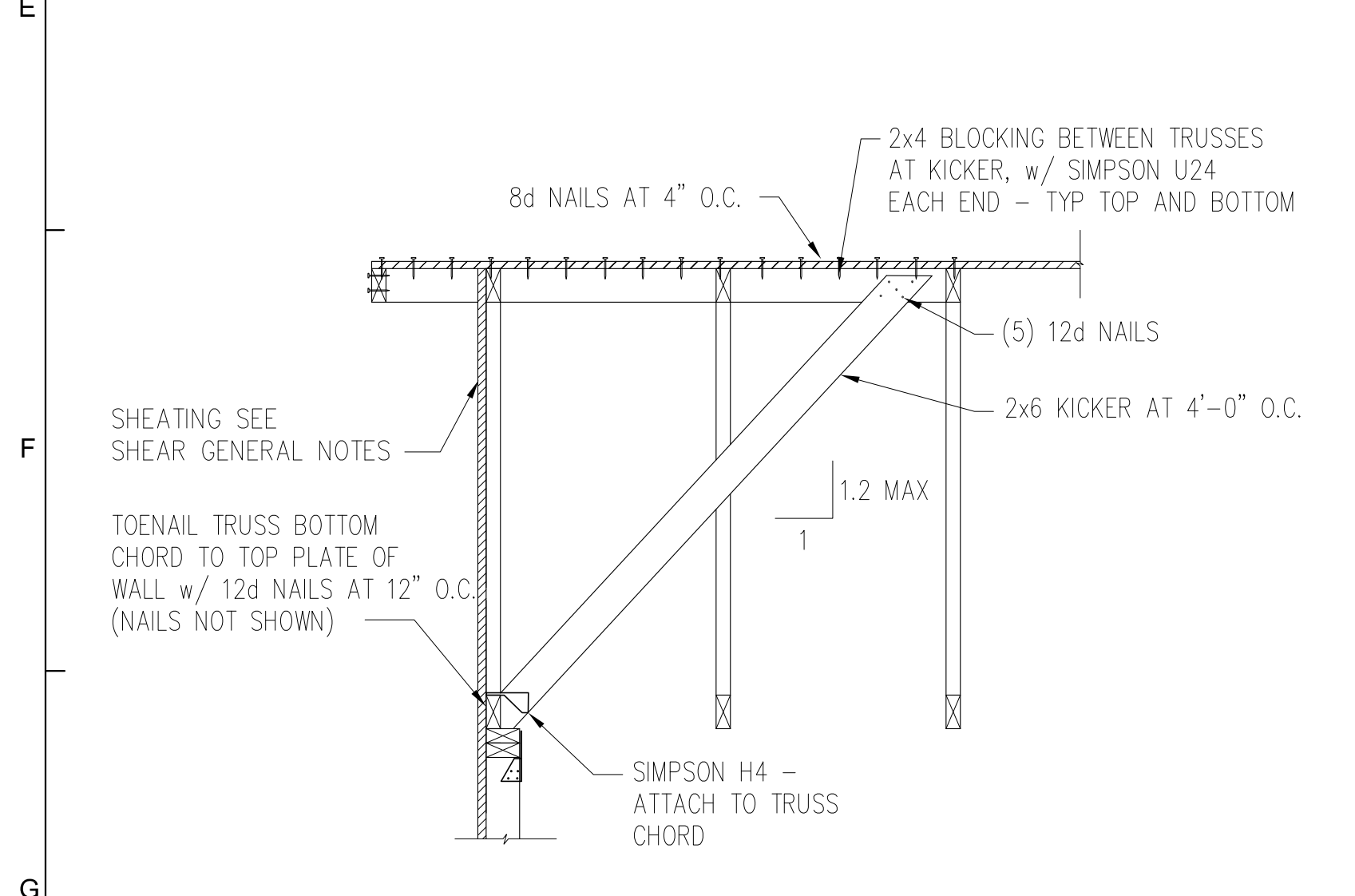
2 SECTION
SCALE NTS.



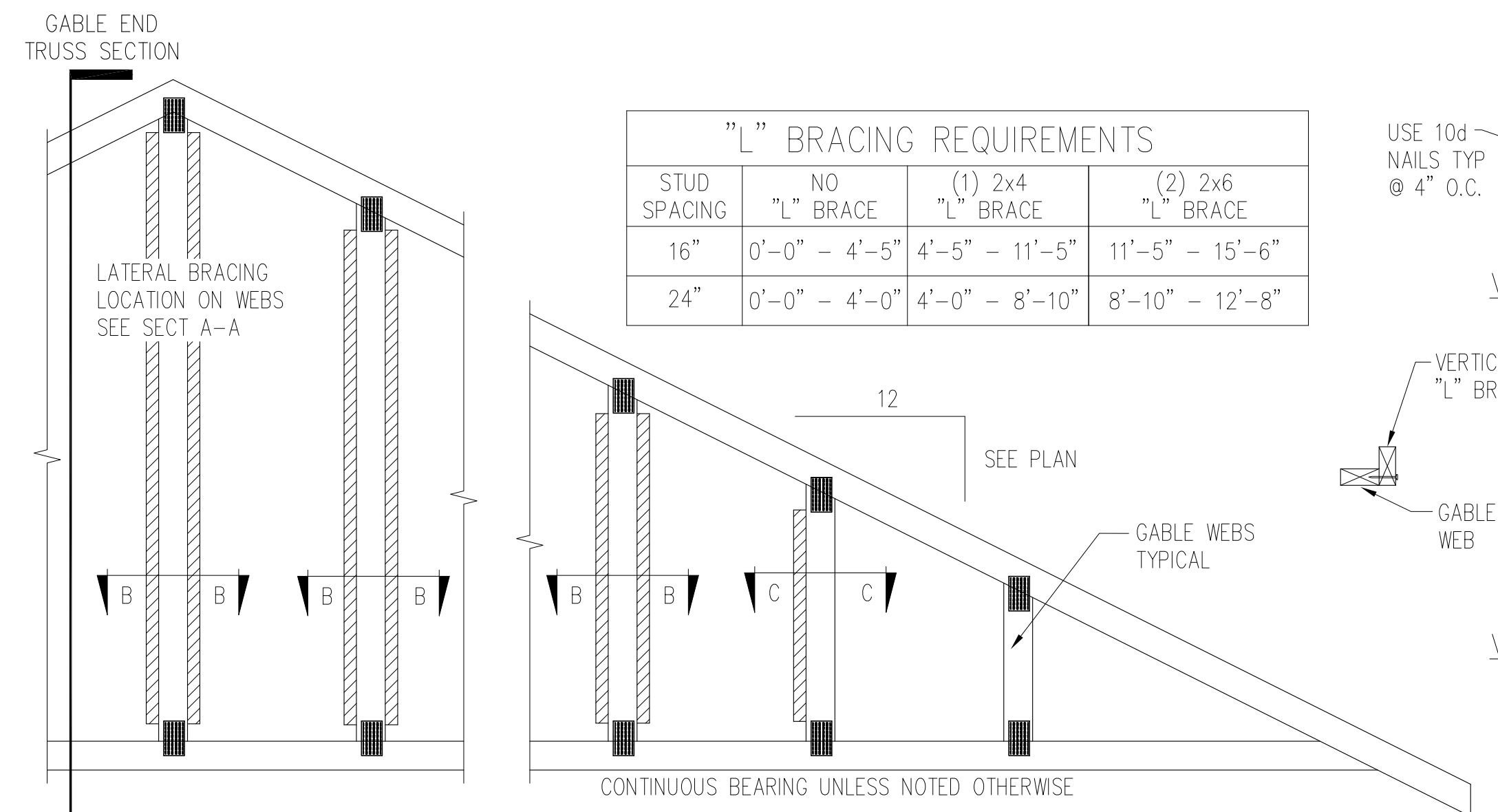
3 TYP GABLE END SECTION
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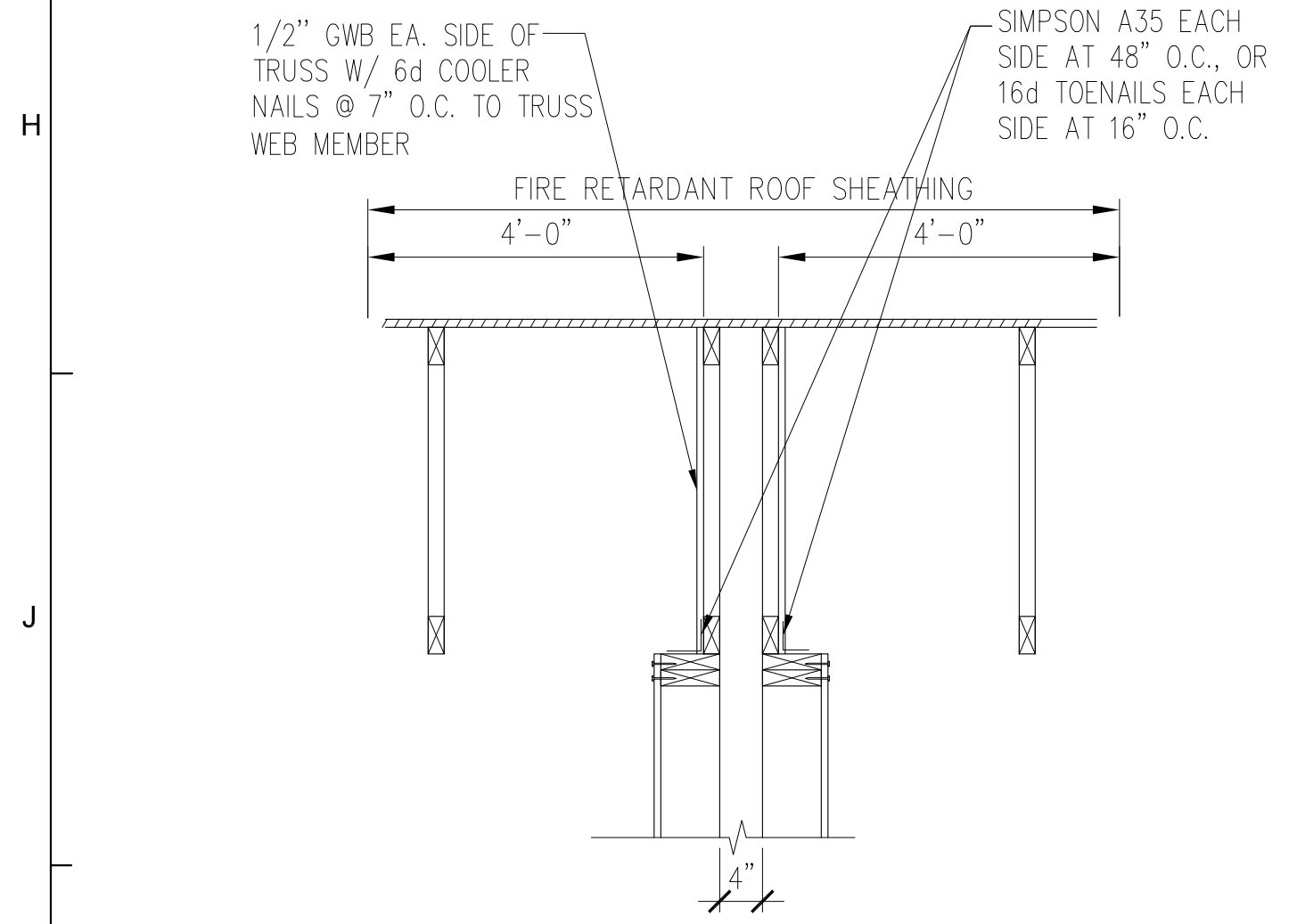
6 SECTION AT ROOF
SCALE 3/4\"/>



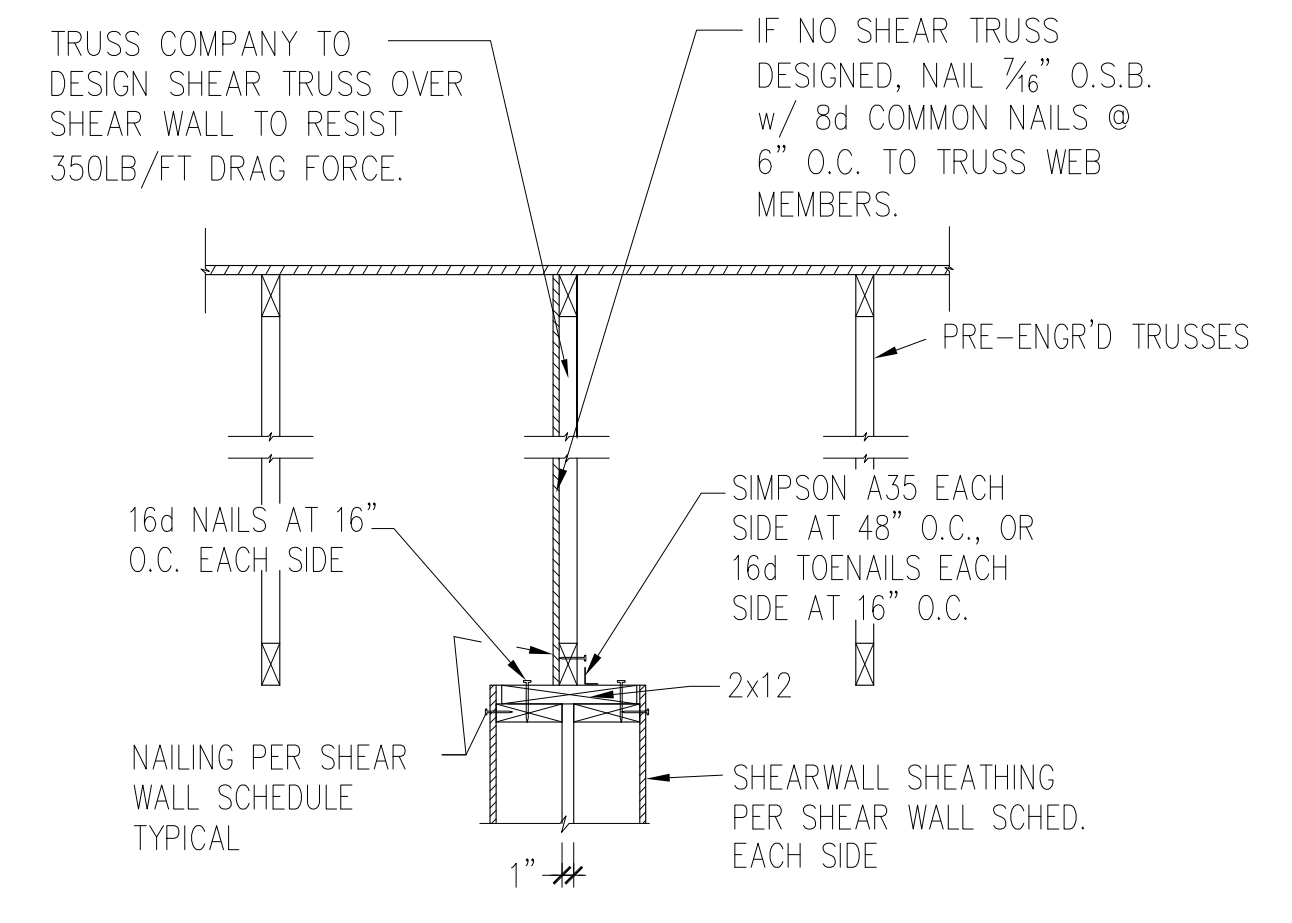
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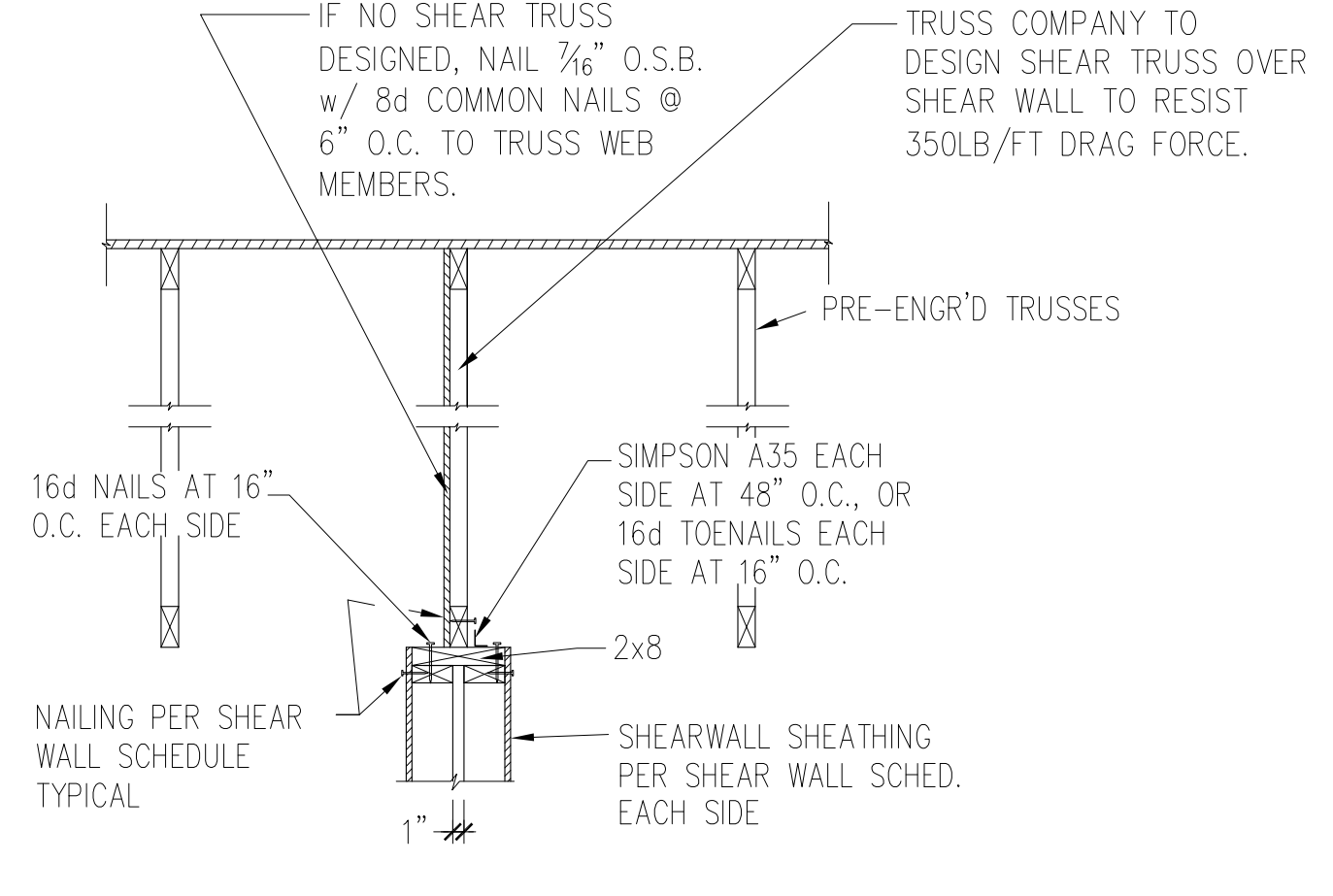
5 STANDARD GABLE END BRACING DETAIL
SCALE NTS.



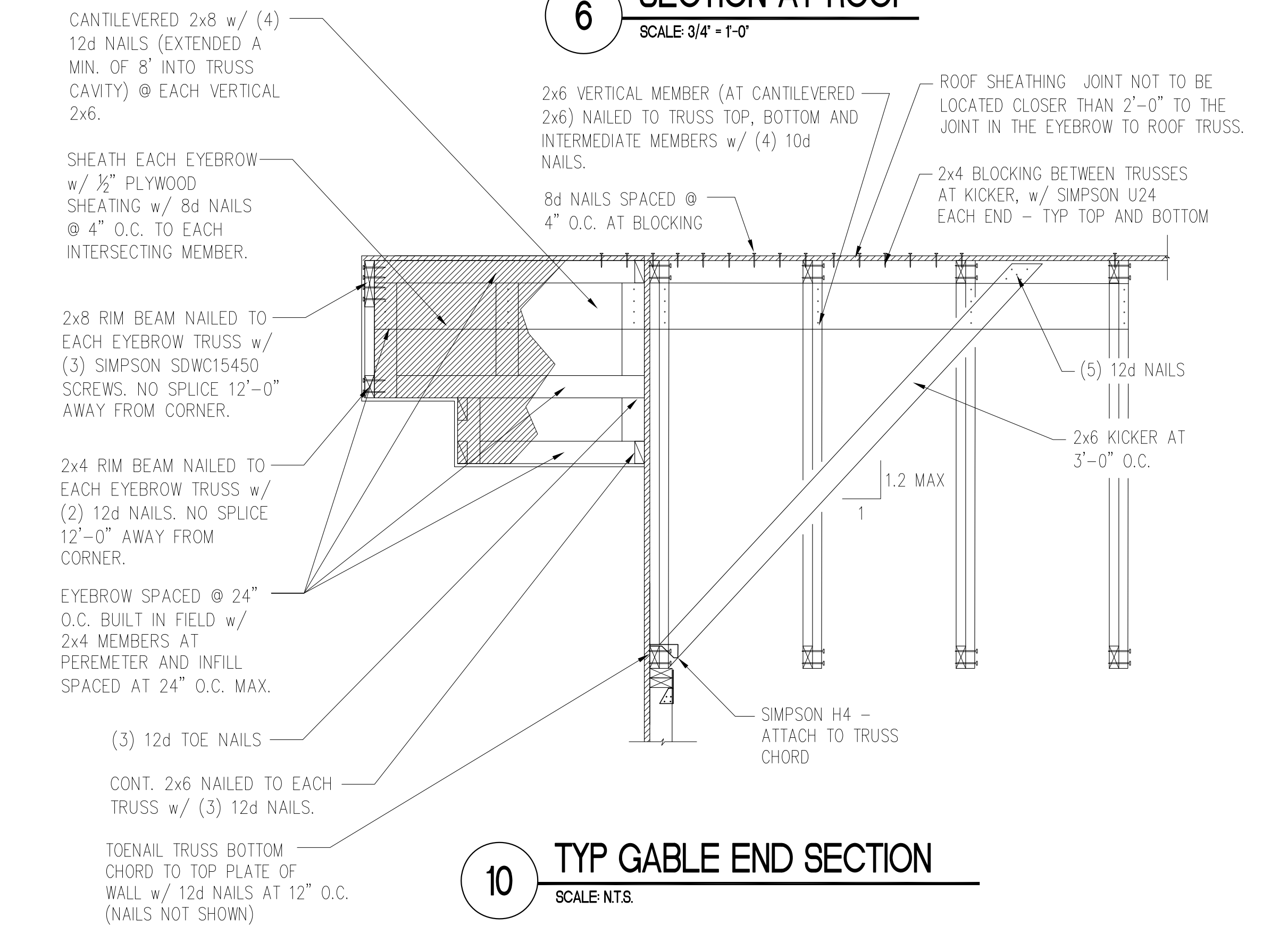
7 PARTY WALL/SHEARWALL SECTION AT ROOF
SCALE 3/4\"/>




8 PARTY WALL/SHEARWALL SECTION AT ROOF (2x6 WALL)
SCALE 3/4\"/>



9 PARTY WALL/SHEARWALL SECTION AT ROOF (2x4 WALL)
SCALE 3/4\"/>



10 TYP GABLE END SECTION
SCALE NTS.



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Wenyi Hu P.E.
Alabama No. 26652

4/26/2021

ISSUE HISTORY		
No.	Date	Description
1	04/15/22	PERMIT SUBMISSION

REVISION HISTORY		
No.	Date	Description

THE ROBERT MADISON MADISON, ALABAMA	Drawn: CW Checked: CW Approval: MX Date: 02-20-22 Project #: XXX-XXX
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SECTION AND DETAILS BLDG TYPES A, B & C

S5.05

PLOTTED:



ABBREVIATIONS

Table of abbreviations including ABV (Above), ADJ (Adjustable), AF (Airfoil), AFF (Above Finished Floor), AC (Air Conditioner), ACU (Air Conditioning Unit), AHU (Air Handling Unit), AP (Access Panel), BAS (Building Automation System), BI (Backward Incline), BLDG (Building), BHP (Brake Horsepower), BTUH (British Thermal Unit per Hour), BDD (Backdraft Damper), CD (Condensate Drain), CFM (Cubic Feet per Minute), CLG (Ceiling), CHW (Chilled Water), CHWR (Chilled Water Return), CHWS (Chilled Water Supply), CWR (Condenser Water Return), CWS (Condenser Water Supply), CONC (Concrete), COND (Condensate), CONT (Continuous), CO (Carbon Monoxide), COP (Coefficient of Performance), CU (Condensing Unit), DB (Drybulb), DWDI (Double Width, Double Inlet), DWGS (Drawings), DX (Direct Expansion), EF (Exhaust Fan), EXH (Exhaust), EA (Each), EAT (Entering Air Temperature), EER (Energy Efficiency Ratio), ELECT (Electrical), ENT (Entering), EQ (Equal), ER (Exhaust Register), EWT (Entering Water Temperature), FC (Forward Curved), FCU (Fan Coil Unit), FD (Fire Damper), FL (Floor), FLEX (Flexible Connector or Duct), FPM (Feet per Minute), F/S (Combination Fire and Smoke Damper), FT. H₂O (Feet Water Gauge), F (Degrees Fahrenheit), GA (Gauge), GAL (Gallon), GALV (Galvanized), GALM (Gallons per Minute), HP (Horsepower), HTWR (High Temperature Hot Water Return), HTWS (High Temperature Hot Water Supply), HW (Hot Water), HWR (Hot Water Return), HWS (Hot Water Supply), HVAC (Heating Ventilation and Air Conditioning), HV (Heating and Ventilating), IN.WG (Inches Water Gauge), KW (Kilowatts), LAT (Leaving Diffuser), LD (Linear Diffuser), LWT (Leaving Water Temperature), MAX (Maximum), MBH (1000 x BTUH), MIN (Minimum), MD (Manual Volume Damper), M (Motorized Damper), MZ (Multi-Zone), N.T.S. (Not to Scale), OA (Outside Air), OBMVD (Opposed Blade Manual Volume Damper), OPD (Open Drift Proof), PROP (Propeller), PCR (Pre-Conditioned Air System Return Water), PCS (Percent), PD (Pressure Drop), PERF. PL. (Perforated Plate), PLBG (Plumbing), PSIA (Pounds per Square Inch Absolute), PSIG (Pounds per Square Inch Gauge), RA (Return Air), RD (Radiation Damper), REG (Register), REQ'D (Required), RG (Return Air Grille), RH (Relative Humidity), RPM (Revolutions per Minute), RR (Return Air Register), RTU (Rooftop Unit), SA (Supply Air), SF (Supply Fan), SD (Smoke Detector), SQ. FT. (Square Foot), SR (Supply Register), STR (Starter), SWSI (Single Width, Single Inlet), SZ (Single Zone), TEFC (Totally Enclosed Fan Cooled), TEMP (Temperature), TG (Transfer Grille), T/O (Transfer Opening Above Ceiling), T'STAT (Thermostat), TYP (Typical), VFD (Variable Frequency Drive), VAV (Variable Air Volume), VS (Variable Speed), W (Watts), W/ (With), W/O (Without), WB (Wetbulb), ZD (Zone Damper)

GENERAL NOTES

- 1. INSTALL EQUIPMENT AND MATERIALS IN COMPLIANCE WITH MANUFACTURER'S MINIMUM CLEARANCE REQUIREMENTS AND RECOMMENDATIONS.
2. COMPLY WITH THE LATEST EDITIONS OF NFPA AND THE LATEST ADOPTED EDITION FLORIDA BUILDING CODE (MECHANICAL, PLUMBING, GAS AND ENERGY CONSERVATION).
3. ALL MATERIALS SHALL FIT THE SPACE AVAILABLE. VERIFY DIMENSIONS AND CLEARANCES ON BUILDING PLANS PRIOR TO COMMENCING WORK.
4. AN INDEPENDENT TEST AND BALANCE CONTRACTOR (TABC) SHALL BE HIRED BY THE GENERAL CONTRACTOR.
5. TABC IS RESPONSIBLE FOR TESTING AND BALANCING OF AIR SYSTEMS IN ACCORDANCE WITH AABC GUIDELINES. A TEST AND BALANCE REPORT SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL.
6. PROVIDE 45 DEGREE BRANCH TAKE-OFF PER SMACNA FIG. 2-8 ON ALL RECTANGULAR DUCT TAKE-OFFS.
7. ALL DUCTWORK TAKE-OFFS AND/OR BRANCH DUCTWORK SHALL BE PROVIDED WITH BALANCING DAMPERS (REMOVE IF IN HARD CEILING AREAS).
8. PROVIDE AND INSTALL DUCT MOUNTED HINGED ACCESS DOORS FOR ALL SMOKE AND/OR FIRE DAMPERS, NOT OTHERWISE ACCESSIBLE.
9. CONTRACTOR SHALL COORDINATE VOLTAGE AND PHASE OF EACH PIECE OF EQUIPMENT WITH THE ELECTRICAL CONTRACTOR PRIOR TO ORDERING AND SHALL COORDINATE WITH ALL OTHER TRADES PRIOR TO OR INSTALLING EQUIPMENT AND MATERIALS.
10. COORDINATE ALL HVAC SYSTEM DRAWINGS WITH EXISTING/NEW TRUSS TO AVOID INTERFERENCE BETWEEN MECHANICAL SYSTEMS AND ROOF STRUCTURE. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH TRUSS INTERFERENCE THAT OCCURS IN THE FIELD DURING CONSTRUCTION. COORDINATE IN ADVANCE. DUCT SIZES MAY BE REVISED TO FIT TRUSS SYSTEM SO LONG AS THE EQUIVALENT INSIDE CROSS SECTIONAL AREA IS NOT DECREASED.
11. GAUGES AND CONSTRUCTION FOR DUCTWORK SHALL CONFORM TO THE LATEST EDITION OF SMACNA'S HVAC DUCT CONSTRUCTION STANDARDS.
12. TRANSITION RECTANGULAR DUCTWORK ON BOTTOM AND SIDES. MAINTAIN TOP OF DUCTWORK LEVEL AND HIGH AS POSSIBLE. FLEXIBLE DUCT RUN-OUTS TO CEILING DIFFUSERS SHALL BE AS STRAIGHT AS POSSIBLE AND FREE OF SAGS AND KINKS. FLEX DUCT SHALL BE THE SAME SIZE AS THE DIFFUSER NECK IT SERVES.
13. ALL DUCT TRANSITIONS FROM SQUARE TO ROUND SHALL BE SMOOTH SQUARE TO ROUND TRANSITIONS. SPIN-IN FITTINGS AT THE END OF CAPPED DUCTS ARE NOT ACCEPTABLE. DUCT DIMENSIONS SHOWN ARE INSIDE CLEAR DIMENSIONS.
14. THE CONTRACTOR SHALL FULFILL ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS AND SHALL COMPLETE THE WORK SHOWN ON THESE DRAWINGS. ALL SYSTEMS SHALL BE FINISHED, TESTED AND BALANCED, ADJUSTED, AND PROVEN TO BE FULLY OPERATIONAL AND USEABLE.
15. ADJUST ALL DIFFUSERS IN CORRIDORS OR WITHIN THREE (3) FEET OF A WALL TO PROVIDE 2-WAY OR 3-WAY BLOW AWAY FROM OR PARALLEL TO WALLS. ALL DIFFUSERS SHALL HAVE 4-WAY BLOW UNLESS NOTED OTHERWISE.
16. PORTIONS OF DUCTWORK VISIBLE THROUGH GRILLES AND REGISTERS IN FINISHED AREAS SHALL BE PAINTED FLAT BLACK.
17. ALL DAMPERS IN AND ABOVE CEILING SHALL BE ACCESSIBLE. CONTRACTOR SHALL COORDINATE ALL ACCESS PANELS IN CEILINGS OR WALLS WITH ARCHITECTURAL REFLECTED CEILING PLANS AND INTERIOR DRAWINGS FOR PROPER LOCATION.
18. MOUNT THERMOSTATS WHERE INDICATED ON PLANS 48" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE. IN HANDICAPPED ACCESSIBLE AREAS, MOUNT CONTROLS AT 48" (MAXIMUM) ABOVE FINISHED FLOOR.
19. COORDINATE DUCTWORK AND PIPING WITH PLUMBING, FIRE PROTECTION AND ELECTRICAL. MAKE OFFSETS AND TRANSITIONS TO COORDINATE WITH OTHER TRADES WITHOUT ANY ADDITIONAL EXPENSE TO THE CONTRACT.
20. SEAL ALL TRANSVERSE JOINTS AND FITTINGS WITH DUCT SEALER.
21. TRAP AND ROUTE CONDENSATE DRAINS LINES, FULL SIZE OF UNIT CONNECTION, AS INDICATED. SLOPE 1/8" PER FOOT.
22. ALTERNATE MANUFACTURERS AND MODELS WILL BE REVIEWED. THERE MAY BE ARCHITECTURAL, STRUCTURAL AND ELECTRICAL CHANGES RESULTING FROM THE ALTERNATES. THE COST OF IMPLEMENTING AND ENGINEERING THESE CHANGES SHALL BE BORNE BY THE MECHANICAL SUBCONTRACTOR.
23. PIPE AND DUCT ROUTING SHOWN IS SCHEMATIC. PROVIDE ANY ADDITIONAL OFFSETS AND FITTINGS, INCLUDING DIVIDED DUCTS, REQUIRED FOR PROPER INSTALLATION AND TO MAINTAIN CLEARANCES AS ENCOUNTERED IN THE FIELD.
24. COORDINATE CEILING MOUNTED AIR DEVICE LOCATION WITH REFLECTED CEILING PLAN AND OTHER TRADES.
25. ALL CONTROL WIRING AND CONDUIT SHALL COMPLY WITH NEC DIVISION 16 SPECIFICATIONS.
26. PROVIDE MATERIALS WHICH HAVE A FLAME SPREAD RATING OF 25 OR LESS AND A SMOKE DEVELOPED RATING OF 50 OR LESS WHEN TESTED IN ACCORD WITH ASTM E84.
27. SLEEVE AND FIRE STOP PENETRATIONS THROUGH FIRE RATED SYSTEMS TO MAINTAIN RATING OF SYSTEM. USE MINIMUM GALVANIZED STEEL GAUGE DUCT AS REQUIRED TO MAINTAIN RATING OF SYSTEM.
28. WHERE THE EXHAUST DUCT IS CONCEALED WITHIN THE BUILDING CONSTRUCTION, THE EQUIVALENT LENGTH OF THE DUCT SHALL BE IDENTIFIED ON A PERMANENT LABEL OR TAG. THE LABEL OR TAG SHALL BE LOCATED WITHIN 6 FEET OF THE EXHAUST DUCT CONNECTION.
29. CONTRACTOR TO ORDER ALL FIRE/SMOKE DAMPERS WITH INTEGRAL SMOKE DETECTORS AND END STOP INDICATOR OPTIONS. VERIFY VOLTAGE WITH ELECTRICAL DRAWINGS. IF BUILDING IS EQUIPPED WITH FIRE ALARM SYSTEM ALL FIRE/SMOKE DAMPERS WILL BE CONNECTED TO BUILDING FIRE ALARM SYSTEM.
30. ALL MECHANICAL EQUIPMENT SHALL BE THOROUGHLY CLEANED OF ALL DIRT, OIL, CONCRETE, ETC. ANY DENTS, SCRATCHES OR OTHER VISIBLE BLEMISHES SHALL BE CORRECTED AND THE APPEARANCE OF THE EQUIPMENT MADE "LIKE NEW" AND TO THE SATISFACTION OF THE ARCHITECT/ENGINEER. UPON COMPLETION, AND BEFORE FINAL ACCEPTANCE OF THE WORK, ALL DEBRIS, RUBBISH, LEFTOVER MATERIALS, TOOLS AND EQUIPMENT SHALL BE REMOVED FROM THE SITE. PROTECTION OF WORK UNTIL FINAL ACCEPTANCE: PROTECT ALL MATERIALS AND EQUIPMENT FROM DAMAGE, ENTRANCE OF DIRT AND CONSTRUCTION DEBRIS FROM THE TIME OF INSTALLATION UNTIL FINAL ACCEPTANCE. ANY MATERIALS AND EQUIPMENT WHICH ARE DAMAGED SHALL BE REPAIRED TO "AS NEW" CONDITION OR REPLACED AT THE DIRECTION OF THE ARCHITECT/ENGINEER. WHERE FACTORY FINISHES OCCUR AND DAMAGE IS MINOR, FINISHES MAY BE TOUCHED UP. IF, IN THE OPINION OF THE ARCHITECT/ENGINEER THE DAMAGE IS EXCESSIVE, FACTORY FINISH SHALL BE REPLACED TO "NEW" CONDITION.
31. DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT AND EXTENT OF WORK. EXACT LOCATIONS AND ARRANGEMENT OF MATERIALS AND EQUIPMENT SHALL BE DETERMINED, WITH THE ACCEPTANCE OF THE ARCHITECT/ENGINEER, AS WORK PROGRESSES TO CONFORM IN THE BEST POSSIBLE MANNER WITH THE SURROUNDINGS AND WITH THE ADJOINING WORK OF OTHER TRADES. WHERE LOCATIONS OF EQUIPMENT, DEVICES OR FIXTURES ARE CONTROLLED BY ARCHITECTURAL FEATURES, ESTABLISH SUCH LOCATIONS BY REFERRING TO DIMENSIONS ON ARCHITECTURAL DRAWINGS AND NOT BY SCALING DRAWINGS.
32. IN CASE OF DIFFERENCES BETWEEN DRAWINGS AND SPECIFICATIONS, OR WHERE DRAWINGS AND SPECIFICATIONS ARE NOT CLEAR OR DEFINITE, THE SUBJECT SHALL BE REFERRED TO ARCHITECT/ENGINEER FOR CLARIFICATION AND INSTRUCTIONS.
33. ANY INTERRUPTION OF EXISTING MECHANICAL AND ELECTRICAL SERVICES SHALL BE COORDINATED IN ADVANCE WITH THE OWNER'S REPRESENTATIVE. THIS INCLUDES, BUT IS NOT LIMITED TO, SERVICES PROVIDING CHILLED WATER, ELECTRICITY, OR OTHER CRITICAL SYSTEMS AS MAY BE PERTINENT TO THIS PARTICULAR PROJECT. SERVICE INTERRUPTION TIMES AND DURATION OF INTERRUPTION OF SERVICES SHALL BE DECIDED BY THE OWNER. PROVIDE APPROPRIATE PROVISIONS (SUCH AS ISOLATION SHUT-OFF VALVES, DAMPERS, END CAPS, AND SIMILAR ITEMS) AS NECESSARY TO ACCOMMODATE THE REQUIRED SERVICE INTERRUPTIONS. IF SHUTDOWNS CANNOT BE ACCOMMODATED, PROVIDE MEANS FOR "WET" TAPPING OR "HOT" TAPPING OF PIPING SYSTEMS.
34. ALL MAIN DUCTWORK SHOWN PER PLAN IS TO BE SHEET METAL OR DUCT BOARD. ALL DUCT BOARD INSTALLATIONS ARE TO BE APPROVED BY BUILDING OWNER PRIOR TO MATERIAL PURCHASE.
35. FIRE & FIRE/SMOKE DAMPERS ARE REQUIRED TO BE UL LISTED AND APPROVED FOR THE ASSEMBLIES LISTED ON THE ARCHITECTURAL DRAWINGS. THESE DAMPERS MUST ALSO BE REVIEWED AND APPROVED BY THE ARCHITECT PRIOR TO ORDERING.

ENERGY CALCULATION VALUES

Table with columns for ROOF (R-38), WALLS (R-21), WINDOWS (SHGC: 0.25, U VALUE: U-.30, VLT: 0.5), DOORS (R-2.85), FLOORS (R-10), and a NOTE stating the project meets minimum energy code requirements.

LEGEND

Legend containing symbols and descriptions for various mechanical components: SUPPLY DIFFUSER (4-WAY), RETURN OR OUTDOOR AIR GRILLE, EXHAUST GRILLE, SUPPLY DUCT UP SECTION (RECTANGULAR), RETURN DUCT UP SECTION (RECTANGULAR), EXHAUST DUCT UP SECTION (RECTANGULAR), SUPPLY DUCT DOWN SECTION (RECTANGULAR), RETURN DUCT DOWN SECTION (RECTANGULAR), EXHAUST DUCT DOWN SECTION (RECTANGULAR), SUPPLY DUCT UP SECTION (ROUND), SUPPLY DUCT DOWN SECTION (ROUND), LINEAR SLOT DIFFUSER, EXISTING LINEAR SLOT DIFFUSER (LIGHT LINETYPE), RECTANGULAR DUCTWORK WITH TAKE-OFF, BALANCING DAMPER AND INSULATED FLEXIBLE ROUND DUCT, ROUND DUCTWORK, CONICAL FITTING WITH DAMPER ON BRANCH CONNECTION TO RECTANGULAR MAIN, EXISTING DUCTWORK TO REMAIN (LIGHT LINETYPE), DUCT OFFSETS UP (RISE) IN DIRECTION INDICATED, DUCT OFFSETS DOWN (DROP) IN DIRECTION INDICATED, OPPOSED BLADE VOLUME DAMPER (OBD), MANUAL DAMPER, FLEXIBLE DUCT CONNECTION, FIRE/RADIATION DAMPER WITH ACCESS PANEL, COMBINATION FIRE/SMOKE DAMPER WITH ACCESS PANEL, EXISTING DUCTWORK TO BE REMOVED (DASHED LINETYPE), DUCT MOUNTED SMOKE DETECTOR PROVIDED AND WIRED BY ELECTRICAL CONTRACTOR AND INSTALLED IN DUCT BY MECHANICAL CONTRACTOR, AIR DEVICE TAG, SIDEWALL TRANSFER GRILLE, SIDEWALL SUPPLY REGISTER, SIDEWALL RETURN GRILLE OR OUTSIDE AIR LOUVER, SIDEWALL EXHAUST GRILLE, WALL MOUNTED DDC TEMPERATURE SENSOR, WALL MOUNTED THERMOSTAT, WALL MOUNTED CO SENSOR, WALL MOUNTED DDC HUMIDITY SENSOR, WALL MOUNTED HUMIDISTAT SENSOR, PHOTO DETAIL OR SECTION IDENTIFICATION TARGET, RADIATION DAMPER INSTALLED IN AIR DEVICE, RADIATION DAMPER INSTALLED IN DUCT, ELBOW WITH TURNING VANES, REFERENCE NOTES, FLOW DIRECTION, INDICATES POINT OF CONNECTION BETWEEN NEW AND EXISTING, POINT OF DISCONNECT, CONDENSER WATER SUPPLY PIPING, CONDENSER WATER RETURN PIPING, BUILDING CONDENSER WATER SUPPLY PIPING, BUILDING CONDENSER WATER RETURN PIPING, CHILLED WATER SUPPLY PIPING, CHILLED WATER RETURN PIPING, HEATING WATER SUPPLY PIPING, HEATING WATER RETURN PIPING, CONDENSATE DRAIN PIPING, REFRIGERANT PIPING, FLOW SENSOR, STATIC PRESSURE TRANSMITTER ASSEMBLY, TEE (PLAN, UP, DOWN), ELBOW (PLAN, UP, DOWN), VALVE, TWO WAY MOTORIZED CONTROL VALVE, THREE WAY MOTORIZED CONTROL VALVE, PRESSURE REDUCING VALVE, FLOW CONTROL VALVE, BALL VALVE FOR PIPING 2-INCHES AND SMALLER, BUTTERFLY VALVE FOR PIPING 2-1/2 INCHES AND LARGER, BUTTERFLY VALVE, CHECK VALVE, STRAINER, BALANCE VALVE WITH INTEGRAL TAPS FOR CONNECTION OF DIFFERENTIAL PRESSURE METER, AUTOMATIC FLOW CONTROL VALVE WITH INTEGRAL TEMPERATURE AND PRESSURE TEST PORTS, UNION, VENTURI FLOW METER, PRESSURE AND/OR TEMPERATURE PORT, THERMOMETER, PRESSURE GAUGE WITH GAUGE COCK, FLEXIBLE CONNECTION, PRESSURE RELIEF VALVE, OPENING IN WALL ABOVE CEILING, EQUIPMENT TAG, 1" DOOR UNDER CUT, ARROW INDICATES DIRECTION OF FLOW, FLEX DUCT, NOTE: SYMBOLS SHOWN ON THIS MECHANICAL LEGEND ARE FOR REFERENCE PURPOSES ONLY.

ISSUE HISTORY and REVISION HISTORY tables with columns for No., Date, and Description.

Logo for FUGLEBERG KOCH and Joseph, Lawrence & Co Consulting Engineers, including contact information and project details.

Logo for THE MADISON and SYMBOL LEGEND & GENERAL NOTES MECHANICAL M0.01.

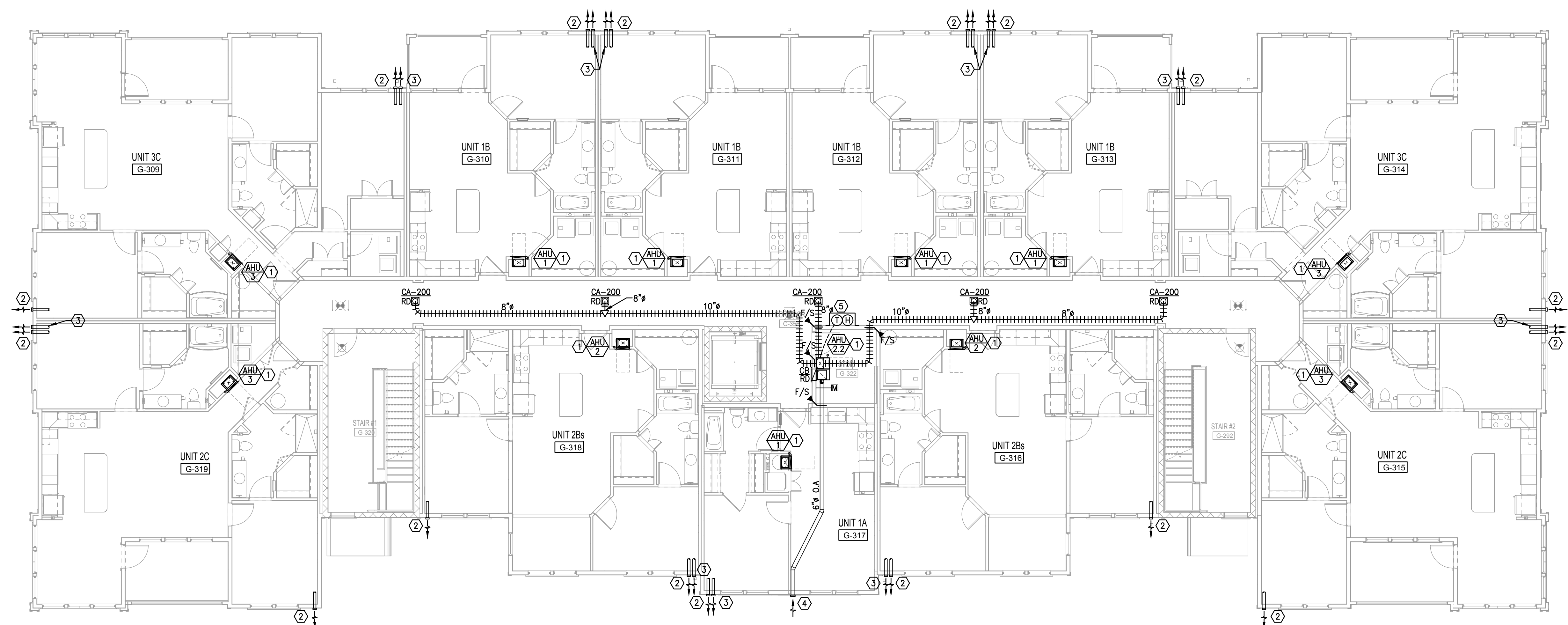


GENERAL NOTES:

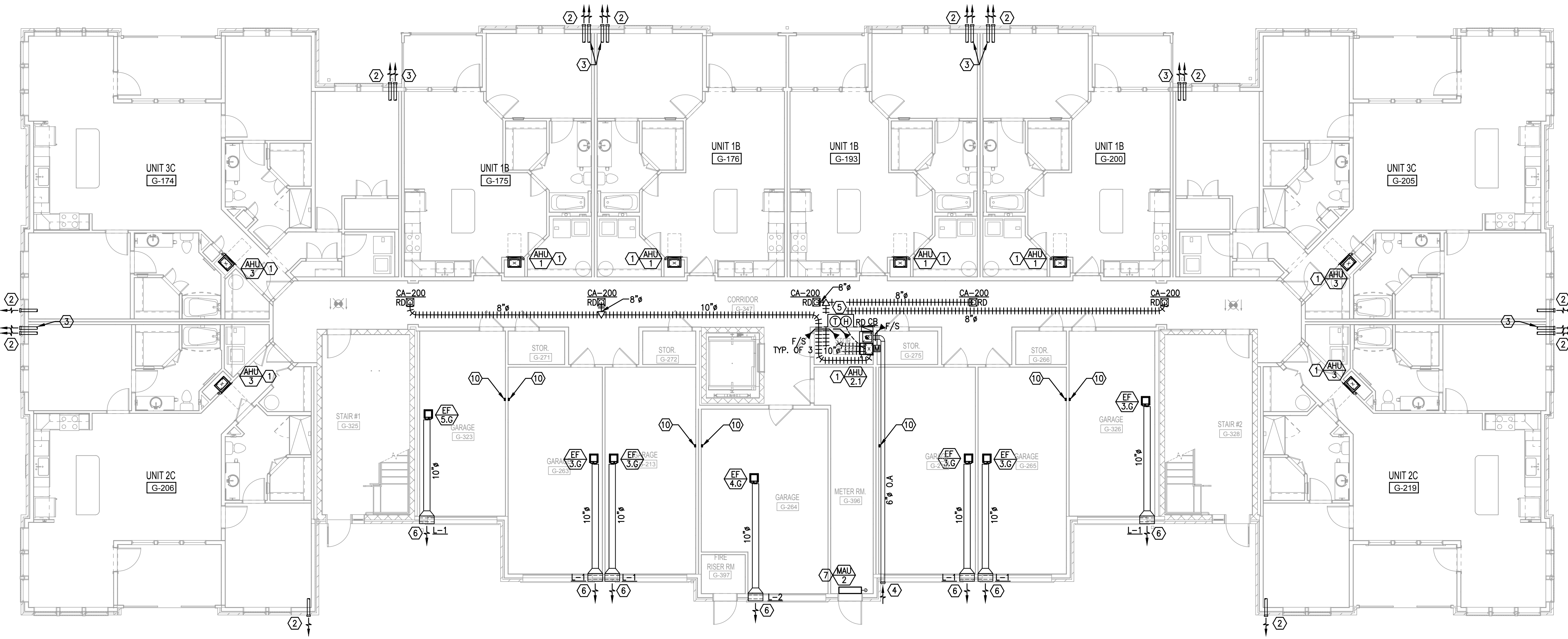
1. ALL EXHAUST OUTLETS SHALL BE FARTHER THAN 3 FEET AWAY FROM ANY OPERABLE WINDOWS.
2. INSTALL CONDENSING UNIT ON HOUSEKEEPING PAD PER DETAIL. CONDENSING UNITS TO BE INSTALLED WITH REQUIRED MANUFACTURER CLEARANCE. REFER TO OVERALL SITE PLAN FOR PROPOSED CONDENSING UNIT LOCATIONS BASED ON BUILDING SITE LOCATION.

REFERENCE NOTES: (X)

- 1 MOUNT AHU PER DETAIL AND ROUTE REFRIGERANT LINES WITHIN MECHANICAL CLOSET WALL DOWN THRU FLOOR AND UNDER SLAB TO GROUND MOUNTED CONDENSING UNIT. SEE PLUMBING PLANS FOR CONDENSATE DISPOSAL ROUTE REFRIGERANT LINES PER DETAIL.
- 2 ROUTE TOILET EXHAUST DUCT FROM WALL MOUNTED EXHAUST FAN THROUGH TRUSS SPACE TO BUILDING SIDEWALL. TERMINATE DUCT AT EXTERIOR WALL CAP WITH BIRD SCREEN PER RISER DIAGRAM. PRIME COAT AND PAINT WALL CAP TO MATCH BUILDING COLOR. SEE INDIVIDUAL UNIT PLANS FOR CONTINUATION.
- 3 ROUTE DRYER EXHAUST DUCT THROUGH TRUSS SPACE TO BUILDING SIDEWALL. TERMINATE DUCT AT EXTERIOR WALL CAP (NO BIRD SCREEN) PER RISER DIAGRAM. PRIME COAT AND PAINT WALL CAP TO MATCH BUILDING COLOR. SEE INDIVIDUAL UNIT PLAN FOR CONTINUATION.
- 4 OUTSIDE AIR DUCT. ROUTE UP TO TRUSS SPACE AND ROUTE TO EXTERIOR WALL CAP. PRIME COAT AND PAINT WALL CAP TO MATCH ADJACENT SURFACES. OUTSIDE AIR DUCT SHALL BE LOCATED A MINIMUM OF 10 FEET AWAY FROM ANY DISCHARGE AIR. PROVIDE WITH INTEGRAL BIRD SCREEN.
- 5 PROVIDE NEW FULLY DIGITAL 7 DAY PROGRAMMABLE TYPE THERMOSTAT/HUMIDISTAT WITH AUTO CHANGE OVER AND AUTO SET BACK. MOUNT THERMOSTAT IN MECHANICAL ROOM. MOUNT TEMPERATURE SENSOR IN CORRIDOR 48" ABOVE FINISHED FLOOR. PROVIDE WITH CLEAR ACRYLIC LOCKING COVER.
- 6 ROUTE EXHAUST DUCT FROM CEILING MOUNTED EXHAUST FANS THROUGH TRUSS SPACE TO BUILDING SIDEWALL. TERMINATE DUCT AT EXTERIOR WALL LOUVER. PRIME COAT AND PAINT WALL CAP TO MATCH BUILDING COLOR.
- 7 MOUNT MAU IN METER ROOM ABOVE DOOR. ROUTE REFRIGERANT LINES IN WALL DOWN THRU FLOOR(S) AND UNDER SLAB TO CONDENSING UNIT. ROUTE CONDENSATE DRAIN LINE DOWN WALL AND OUT TO GRASSY AREA PER DETAIL. PROVIDE CONDENSATE PUMP EQUAL TO BLUE DIAMOND XST-721 IF REQUIRED. CONDENSATE PUMP MUST BE ACCESSIBLE.
- 8 ROUTE REFRIGERANT LINES FROM GROUND MOUNTED CONDENSING UNITS UNDER SLAB AND UP EXTERIOR WALL TO AIR HANDLERS ON 2ND, 3RD AND 4TH FLOORS.
- 9 INSTALL CONDENSING UNIT AND HOUSEKEEPING PAD PER DETAIL. COORDINATE CONDENSING UNIT LOCATIONS WITH OWNER.
- 10 PROVIDE HARD WIRED 120V CARBON MONOXIDE MONITOR EQUAL TO FIRST ALERT.



F1 BUILDING TYPE B - 2ND LEVEL - MECHANICAL
1/8" = 1'-0"



K1 BUILDING TYPE B - GROUND LEVEL - MECHANICAL
1/8" = 1'-0"

ISSUE HISTORY

No.	Date	Description
1	04/15/22	Permit Submission

REVISION HISTORY

No.	Date	Description
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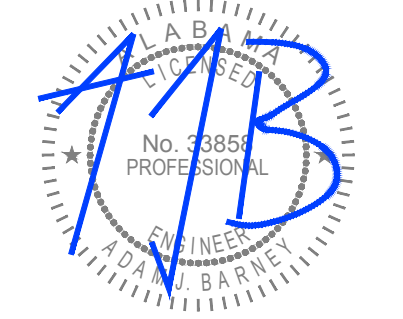


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JLC 22.0023.00



THE MADISON
HUNTSVILLE, AL

BUILDING TYPE B
GROUND & 2ND LEVEL
MECHANICAL

M2.04

Drawn: MRS/MB
Checked: BLS/AB
Approved: BLS/AB
Date: 04/15/2022
Project#: 5722

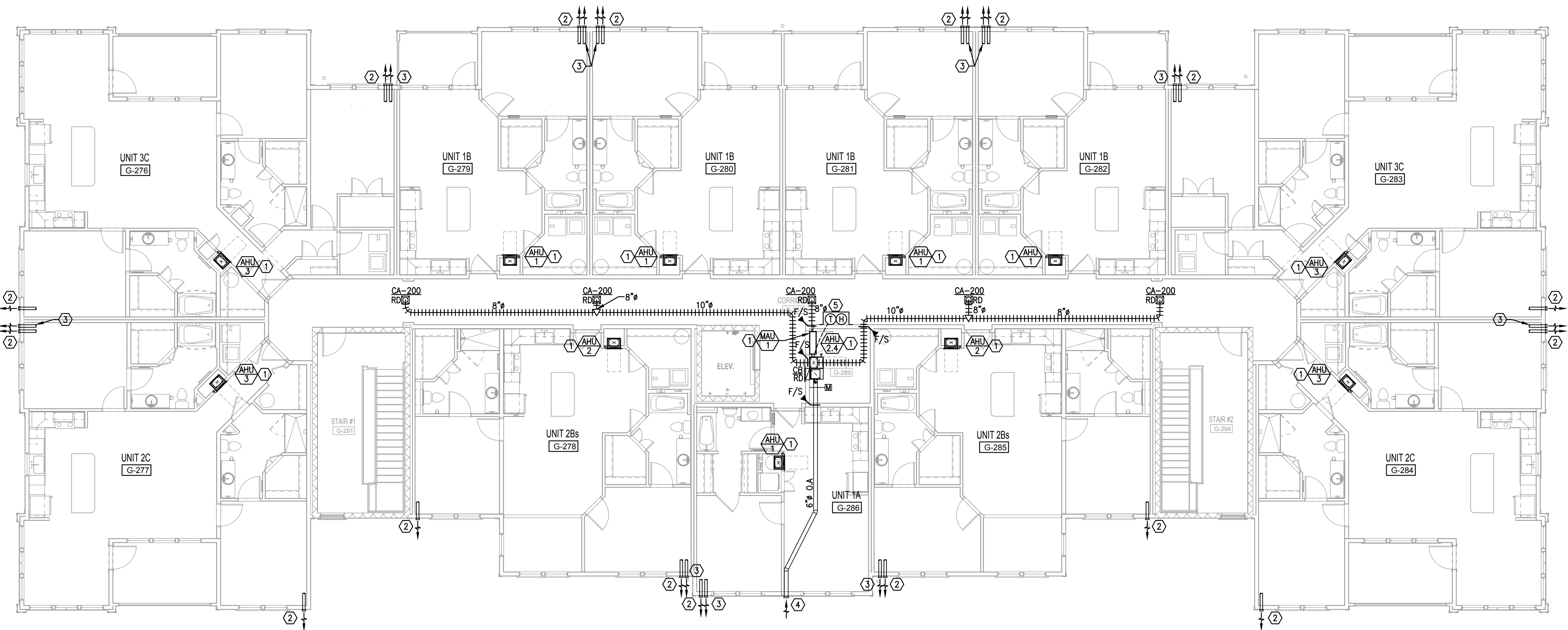


GENERAL NOTES:

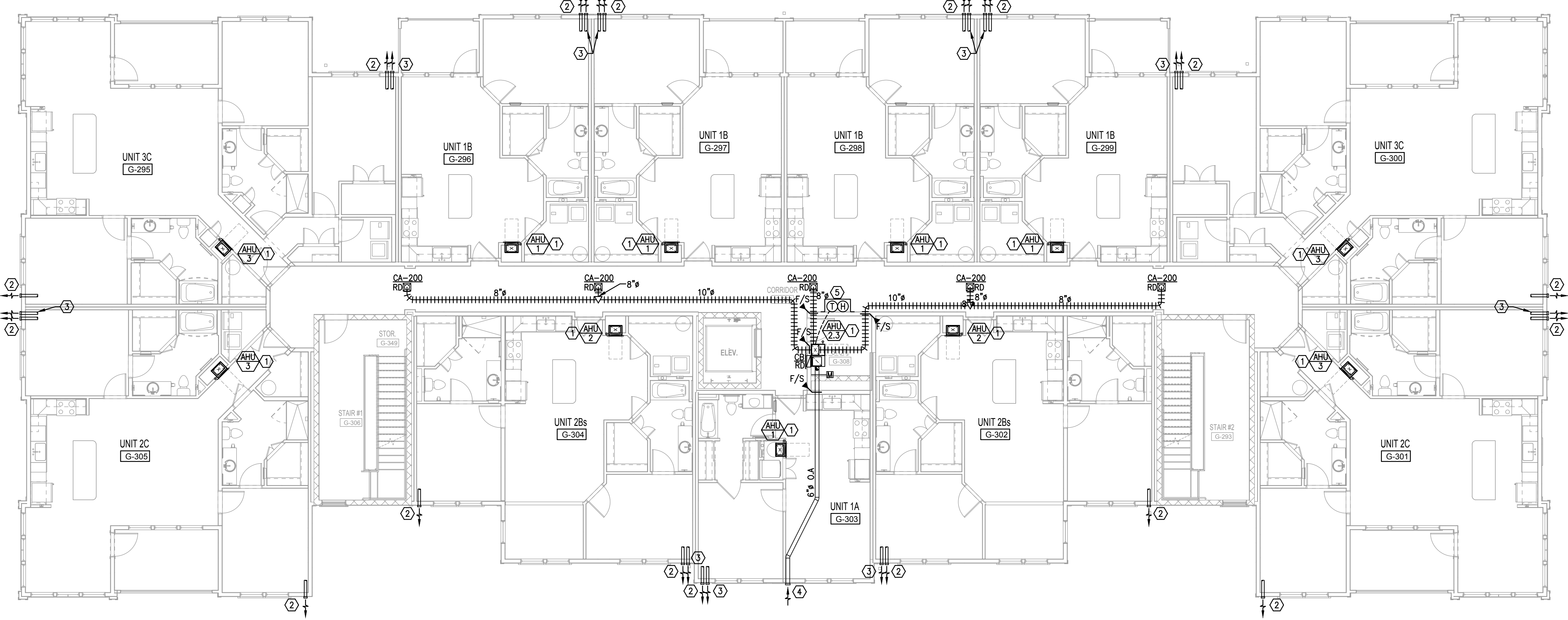
1. ALL EXHAUST OUTLETS SHALL BE FARTHER THAN 3 FEET AWAY FROM ANY OPERABLE WINDOWS.
2. INSTALL CONDENSING UNIT ON HOUSEKEEPING PAD PER DETAIL. CONDENSING UNITS TO BE INSTALLED WITH REQUIRED MANUFACTURER CLEARANCE. REFER TO OVERALL SITE PLAN FOR PROPOSED CONDENSING UNIT LOCATIONS BASED ON BUILDING SITE LOCATION.

REFERENCE NOTES:

- ① MOUNT AHU PER DETAIL AND ROUTE REFRIGERANT LINES WITHIN MECHANICAL CLOSET WALL DOWN THRU FLOOR AND UNDER SLAB TO GROUND MOUNTED CONDENSING UNIT. SEE PLUMBING PLANS FOR CONDENSATE DISPOSAL. ROUTE REFRIGERANT LINES PER DETAIL.
- ② ROUTE TOILET EXHAUST DUCT FROM WALL MOUNTED EXHAUST FAN THROUGH TRUSS SPACE TO BUILDING SIDEWALL. TERMINATE DUCT AT EXTERIOR WALL CAP WITH BIRD SCREEN PER RISER DIAGRAM. PRIME COAT AND PAINT WALL CAP TO MATCH BUILDING COLOR. SEE INDIVIDUAL UNIT PLANS FOR CONTINUATION.
- ③ ROUTE DRYER EXHAUST DUCT THROUGH TRUSS SPACE TO BUILDING SIDEWALL. TERMINATE DUCT AT EXTERIOR WALL CAP (NO BIRD SCREEN) PER RISER DIAGRAM. PRIME COAT AND PAINT WALL CAP TO MATCH BUILDING COLOR. SEE INDIVIDUAL UNIT PLAN FOR CONTINUATION.
- ④ OUTSIDE AIR DUCT. ROUTE UP TO TRUSS SPACE AND ROUTE TO EXTERIOR WALL CAP. PRIME COAT AND PAINT WALL CAP TO MATCH ADJACENT SURFACES. OUTSIDE AIR DUCT SHALL BE LOCATED A MINIMUM OF 10 FEET AWAY FROM ANY DISCHARGE AIR. PROVIDE WITH INTEGRAL BIRD SCREEN.
- ⑤ PROVIDE NEW FULLY DIGITAL 7 DAY PROGRAMMABLE TYPE THERMOSTAT/HUMIDISTAT WITH AUTO CHANGE OVER AND AUTO SET BACK. MOUNT THERMOSTAT IN MECHANICAL ROOM. MOUNT TEMPERATURE SENSOR IN CORRIDOR 48" ABOVE FINISHED FLOOR. PROVIDE WITH CLEAR ACRYLIC LOCKING COVER.
- ⑥ MOUNT MAU IN ELEC/IT ROOM ABOVE DOOR. ROUTE REFRIGERANT LINES IN WALL DOWN THRU FLOOR(S) AND UNDER SLAB TO CONDENSING UNIT. ROUTE CONDENSATE DRAIN LINE DOWN WALL AND OUT TO GRASSY AREA PER DETAIL. PROVIDE CONDENSATE PUMP EQUAL TO BLUEDIAMOND X87-721 IF REQUIRED. CONDENSATE PUMP MUST BE ACCESSIBLE.



F1 BUILDING TYPE B - 4TH LEVEL - MECHANICAL
1/8" = 1'-0"



K1 BUILDING TYPE B - 3RD LEVEL - MECHANICAL
1/8" = 1'-0"

ISSUE HISTORY

No.	Date	Description
1	04/15/22	Permit Submission

REVISION HISTORY

No.	Date	Description

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JLC 22.0023.00
ALTA MONTA SPRINGS
No. 3885
PROJECT 5000

THE MADISON
HUNTSVILLE, AL
BUILDING TYPE B
3RD & 4TH LEVEL
MECHANICAL
M2.05

Drawn: MRS/MB
Checked: BLS/AJB
Approved: BLS/AJB
Date: 04/15/2022
Project#: 5722

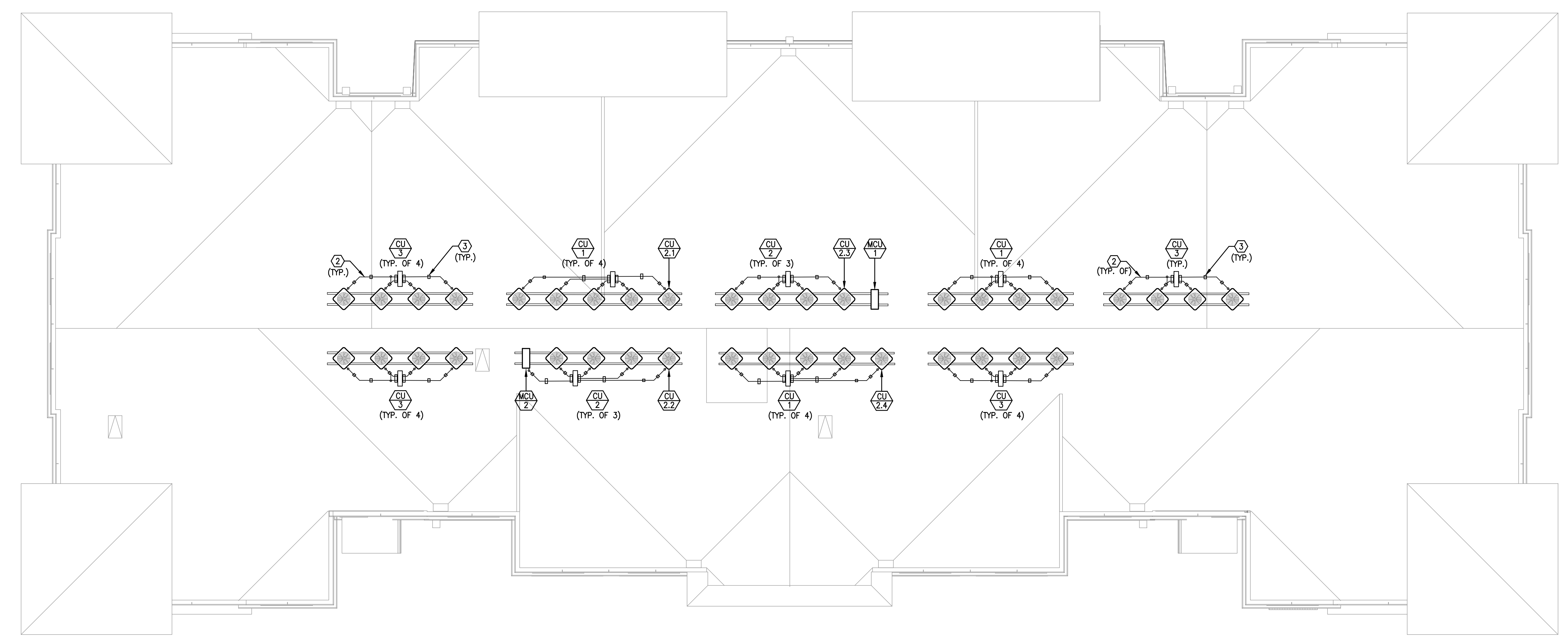


GENERAL NOTES:

- A. INSTALLATION OF EQUIPMENT SHALL COMPLY WITH EQUIPMENT MANUFACTURER'S INSTALLATION AND CLEARANCE REQUIREMENTS.
- B. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL EQUIPMENT AND ACCESSORIES FOR HVAC EQUIPMENT. THIS CONTRACTOR SHALL VERIFY ALL EQUIPMENT REQUIREMENT AND QUANTITIES PRIOR TO BID.

REFERENCE NOTES: (X)

- ① MOUNT NEW CONDENSING UNITS TO NEW ROOF MOUNTED RAIL SYSTEM PER DETAIL.
- ② PROVIDE REFRIGERANT LINE ROOF PENETRATION COVER PER DETAIL.
- ③ SUPPORT REFRIGERANT PIPING ABOVE ROOF SURFACE PER DETAIL.



K1 BUILDING TYPE B - ROOF PLAN - MECHANICAL
1/8" = 1'-0"

ISSUE HISTORY

No.	Date	Description
1	04/15/22	Permit Submission

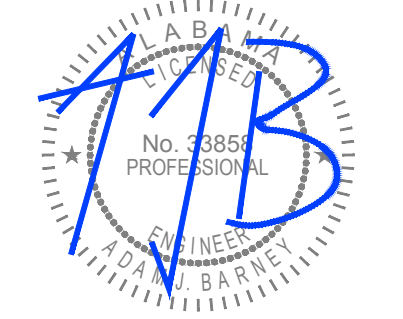
REVISION HISTORY

No.	Date	Description

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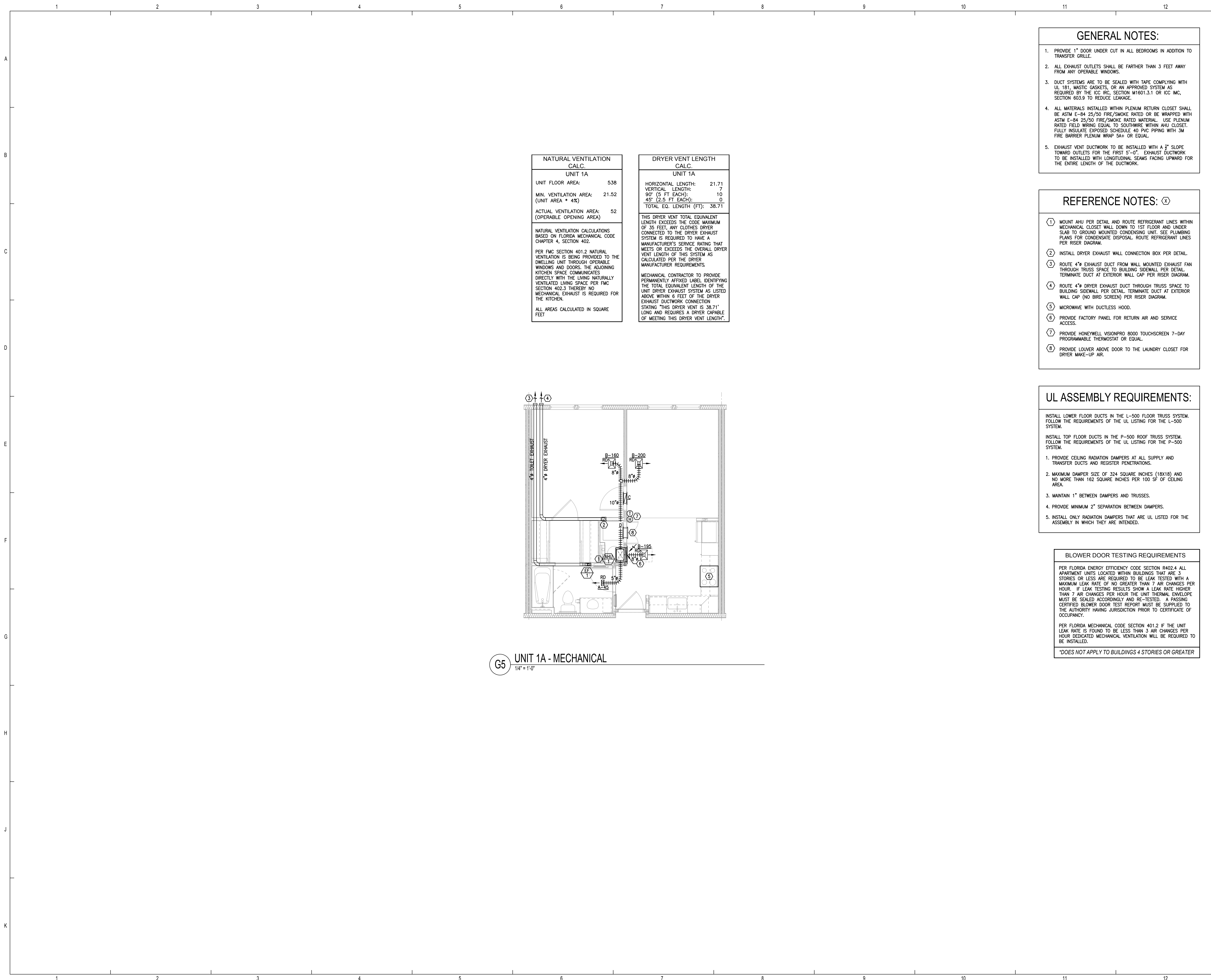
JLC 22.0023.00



Drawn	MJRSMB
Checked	BLSAJB
Approved	BLSAJB
Date	04/15/2022
Project#	572

THE MADISON
HUNTSVILLE, AL
**BUILDING TYPE B
ROOF PLAN
MECHANICAL**
M2.06

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NATURAL VENTILATION CALC.		DRYER VENT LENGTH CALC.	
UNIT 1A			
UNIT FLOOR AREA:	538	HORIZONTAL LENGTH:	21.71
MIN. VENTILATION AREA:	21.52	VERTICAL LENGTH:	7
(UNIT AREA * 4%)		90° (5 FT EACH):	10
		45° (2.5 FT EACH):	0
ACTUAL VENTILATION AREA:	52	TOTAL EQ. LENGTH (FT):	38.71
(OPERABLE OPENING AREA)			
<p>NATURAL VENTILATION CALCULATIONS BASED ON FLORIDA MECHANICAL CODE CHAPTER 4, SECTION 402.</p> <p>PER FMC SECTION 401.2 NATURAL VENTILATION IS BEING PROVIDED TO THE DWELLING UNIT THROUGH OPERABLE WINDOWS AND DOORS. THE ADJOINING KITCHEN SPACE COMMUNICATES DIRECTLY WITH THE LIVING NATURALLY VENTILATED LIVING SPACE PER FMC SECTION 402.3 THEREBY NO MECHANICAL EXHAUST IS REQUIRED FOR THE KITCHEN.</p> <p>ALL AREAS CALCULATED IN SQUARE FEET</p>		<p>THIS DRYER VENT TOTAL EQUIVALENT LENGTH EXCEEDS THE CODE MAXIMUM OF 35 FEET. ANY CLOTHES DRYER CONNECTED TO THE DRYER EXHAUST SYSTEM IS REQUIRED TO HAVE A MANUFACTURER'S SERVICE RATING THAT MEETS OR EXCEEDS THE OVERALL DRYER VENT LENGTH OF THIS SYSTEM AS CALCULATED PER THE DRYER MANUFACTURER REQUIREMENTS.</p> <p>MECHANICAL CONTRACTOR TO PROVIDE PERMANENTLY AFFIXED LABEL IDENTIFYING THE TOTAL EQUIVALENT LENGTH OF THE UNIT DRYER EXHAUST SYSTEM AS LISTED ABOVE WITHIN 6 FEET OF THE DRYER EXHAUST DUCTWORK CONNECTION STATING "THIS DRYER VENT IS 38.71' LONG AND REQUIRES A DRYER CAPABLE OF MEETING THIS DRYER VENT LENGTH".</p>	

G5 UNIT 1A - MECHANICAL
1/4" = 1'-0"

GENERAL NOTES:

- PROVIDE 1" DOOR UNDER CUT IN ALL BEDROOMS IN ADDITION TO TRANSFER GRILLE.
- ALL EXHAUST OUTLETS SHALL BE FARTHER THAN 3 FEET AWAY FROM ANY OPERABLE WINDOWS.
- DUCT SYSTEMS ARE TO BE SEALED WITH TAPE COMPLYING WITH UL 181, MASTIC GASKETS, OR AN APPROVED SYSTEM AS REQUIRED BY THE ICC IRC, SECTION M1601.3.1 OR ICC IMC, SECTION 603.9 TO REDUCE LEAKAGE.
- ALL MATERIALS INSTALLED WITHIN PLENUM RETURN CLOSET SHALL BE ASTM E-84 25/50 FIRE/SMOKE RATED OR BE WRAPPED WITH ASTM E-84 25/50 FIRE/SMOKE RATED MATERIAL. USE PLENUM RATED FIELD WIRING EQUAL TO SOUTHWIRE WITHIN AHU CLOSET. FULLY INSULATE EXPOSED SCHEDULE 40 PVC PIPING WITH 3M FIRE BARRIER PLENUM WRAP 5A+ OR EQUAL.
- EXHAUST VENT DUCTWORK TO BE INSTALLED WITH A 1/2" SLOPE TOWARD OUTLETS FOR THE FIRST 5'-0". EXHAUST DUCTWORK TO BE INSTALLED WITH LONGITUDINAL SEAMS FACING UPWARD FOR THE ENTIRE LENGTH OF THE DUCTWORK.

REFERENCE NOTES: (X)

- MOUNT AHU PER DETAIL AND ROUTE REFRIGERANT LINES WITHIN MECHANICAL CLOSET WALL DOWN TO 1ST FLOOR AND UNDER SLAB TO GROUND MOUNTED CONDENSING UNIT. SEE PLUMBING PLANS FOR CONDENSATE DISPOSAL. ROUTE REFRIGERANT LINES PER RISER DIAGRAM.
- INSTALL DRYER EXHAUST WALL CONNECTION BOX PER DETAIL.
- ROUTE 4" EXHAUST DUCT FROM WALL MOUNTED EXHAUST FAN THROUGH TRUSS SPACE TO BUILDING SIDEWALL PER DETAIL. TERMINATE DUCT AT EXTERIOR WALL CAP PER RISER DIAGRAM.
- ROUTE 4" DRYER EXHAUST DUCT THROUGH TRUSS SPACE TO BUILDING SIDEWALL PER DETAIL. TERMINATE DUCT AT EXTERIOR WALL CAP (NO BIRD SCREEN) PER RISER DIAGRAM.
- MICROWAVE WITH DUCTLESS HOOD.
- PROVIDE FACTORY PANEL FOR RETURN AIR AND SERVICE ACCESS.
- PROVIDE HONEYWELL VISIONPRO 8000 TOUCHSCREEN 7-DAY PROGRAMMABLE THERMOSTAT OR EQUAL.
- PROVIDE LOUVER ABOVE DOOR TO THE LAUNDRY CLOSET FOR DRYER MAKE-UP AIR.

UL ASSEMBLY REQUIREMENTS:

- INSTALL LOWER FLOOR DUCTS IN THE L-500 FLOOR TRUSS SYSTEM. FOLLOW THE REQUIREMENTS OF THE UL LISTING FOR THE L-500 SYSTEM.
- INSTALL TOP FLOOR DUCTS IN THE P-500 ROOF TRUSS SYSTEM. FOLLOW THE REQUIREMENTS OF THE UL LISTING FOR THE P-500 SYSTEM.
- PROVIDE CEILING RADIATION DAMPERS AT ALL SUPPLY AND TRANSFER DUCTS AND REGISTER PENETRATIONS.
 - MAXIMUM DAMPER SIZE OF 324 SQUARE INCHES (18X18) AND NO MORE THAN 162 SQUARE INCHES PER 100 SF OF CEILING AREA.
 - MAINTAIN 1" BETWEEN DAMPERS AND TRUSSES.
 - PROVIDE MINIMUM 2" SEPARATION BETWEEN DAMPERS.
 - INSTALL ONLY RADIATION DAMPERS THAT ARE UL LISTED FOR THE ASSEMBLY IN WHICH THEY ARE INTENDED.

BLOWER DOOR TESTING REQUIREMENTS

PER FLORIDA ENERGY EFFICIENCY CODE SECTION R402.4 ALL APARTMENT UNITS LOCATED WITHIN BUILDINGS THAT ARE 3 STORIES OR LESS ARE REQUIRED TO BE LEAK TESTED WITH A MAXIMUM LEAK RATE OF NO GREATER THAN 7 AIR CHANGES PER HOUR. IF LEAK TESTING RESULTS SHOW A LEAK RATE HIGHER THAN 7 AIR CHANGES PER HOUR THE UNIT THERMAL ENVELOPE MUST BE SEALED ACCORDINGLY AND RE-TESTED. A PASSING CERTIFIED BLOWER DOOR TEST REPORT MUST BE SUPPLIED TO THE AUTHORITY HAVING JURISDICTION PRIOR TO CERTIFICATE OF OCCUPANCY.

PER FLORIDA MECHANICAL CODE SECTION 401.2 IF THE UNIT LEAK RATE IS FOUND TO BE LESS THAN 3 AIR CHANGES PER HOUR DEDICATED MECHANICAL VENTILATION WILL BE REQUIRED TO BE INSTALLED.

*DOES NOT APPLY TO BUILDINGS 4 STORIES OR GREATER

ISSUE HISTORY

No.	Date	Description
1	04/15/22	Permit Submission

REVISION HISTORY

No.	Date	Description

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www.fuglebergkoch.com AA26002103

CONSULTANT

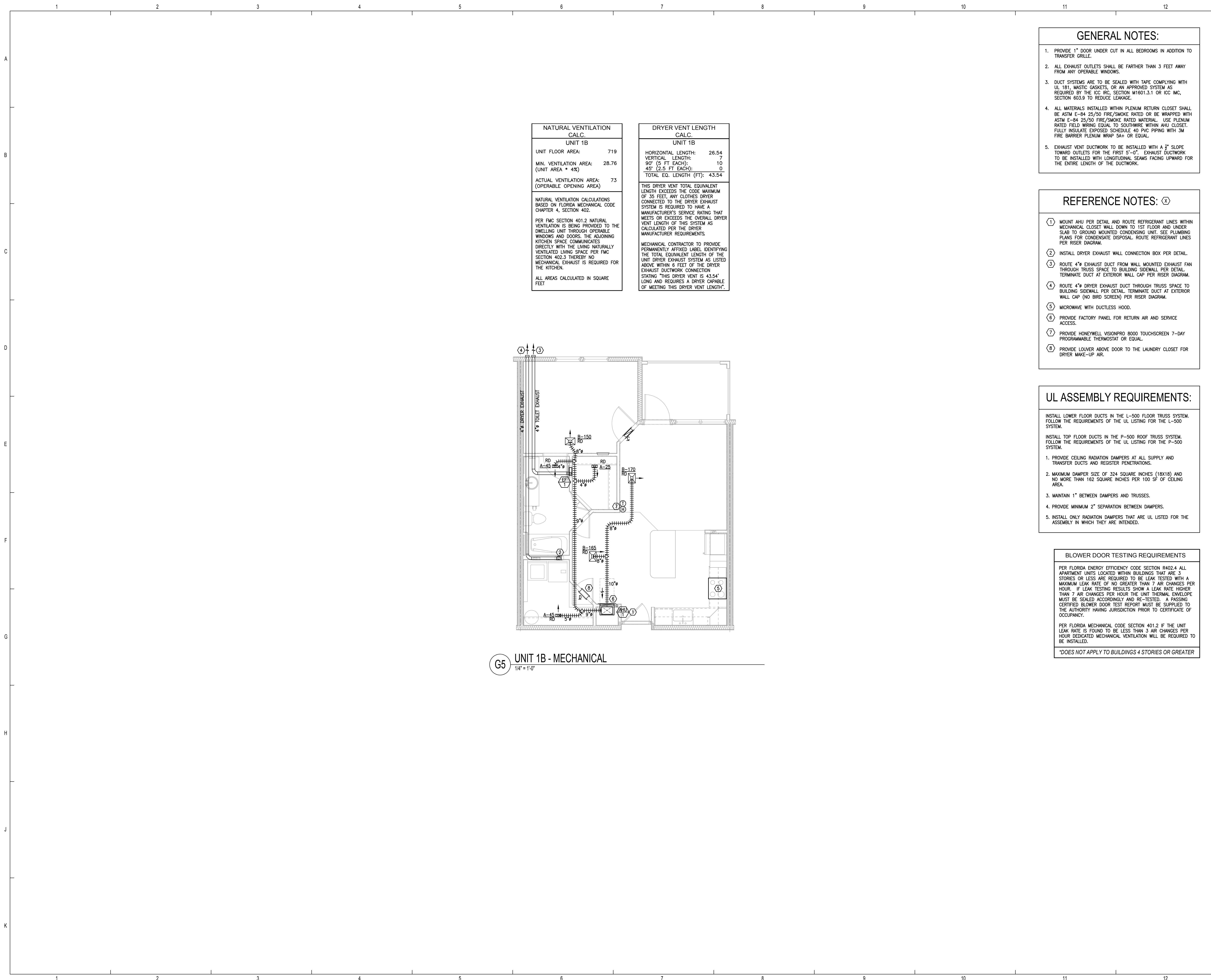
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JLC 22.0023.00

<p>THE MADISON</p> <p>HUNTSVILLE, AL</p>	<p>Drawn: M/R/SMB Checked: BLSA/B Approved: BLSA/B Date: 04/15/2022 Project #: 5722</p>
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ENLARGED UNIT PLANS MECHANICAL

M3.01



NATURAL VENTILATION CALC.	
UNIT 1B	
UNIT FLOOR AREA:	719
MIN. VENTILATION AREA: (UNIT AREA * 4%)	28.76
ACTUAL VENTILATION AREA: (OPERABLE OPENING AREA)	73

NATURAL VENTILATION CALCULATIONS BASED ON FLORIDA MECHANICAL CODE CHAPTER 4, SECTION 402.

PER FMC SECTION 401.2 NATURAL VENTILATION IS BEING PROVIDED TO THE DWELLING UNIT THROUGH OPERABLE WINDOWS AND DOORS. THE ADJOINING KITCHEN SPACE COMMUNICATES DIRECTLY WITH THE LIVING NATURALLY VENTILATED LIVING SPACE PER FMC SECTION 402.3 THEREBY NO MECHANICAL EXHAUST IS REQUIRED FOR THE KITCHEN.

ALL AREAS CALCULATED IN SQUARE FEET

DRYER VENT LENGTH CALC.	
UNIT 1B	
HORIZONTAL LENGTH:	26.54
VERTICAL LENGTH:	7
90° (5 FT EACH):	10
45° (2.5 FT EACH):	0
TOTAL EQ. LENGTH (FT):	43.54

THIS DRYER VENT TOTAL EQUIVALENT LENGTH EXCEEDS THE CODE MAXIMUM OF 35 FEET. ANY CLOTHES DRYER CONNECTED TO THE DRYER EXHAUST SYSTEM IS REQUIRED TO HAVE A MANUFACTURER'S SERVICE RATING THAT MEETS OR EXCEEDS THE OVERALL DRYER VENT LENGTH OF THIS SYSTEM AS CALCULATED PER THE DRYER MANUFACTURER REQUIREMENTS.

MECHANICAL CONTRACTOR TO PROVIDE PERMANENTLY AFFIXED LABEL IDENTIFYING THE TOTAL EQUIVALENT LENGTH OF THE UNIT DRYER EXHAUST SYSTEM AS LISTED ABOVE WITHIN 5 FEET OF THE DRYER EXHAUST DUCTWORK CONNECTION STATING "THIS DRYER VENT IS 43.54' LONG AND REQUIRES A DRYER CAPABLE OF MEETING THIS DRYER VENT LENGTH".

G5 UNIT 1B - MECHANICAL
1/4" = 1'-0"

GENERAL NOTES:

- PROVIDE 1" DOOR UNDER CUT IN ALL BEDROOMS IN ADDITION TO TRANSFER GRILLE.
- ALL EXHAUST OUTLETS SHALL BE FARTHER THAN 3 FEET AWAY FROM ANY OPERABLE WINDOWS.
- DUCT SYSTEMS ARE TO BE SEALED WITH TAPE COMPLYING WITH UL 181, MASTIC GASKETS, OR AN APPROVED SYSTEM AS REQUIRED BY THE ICC IRC, SECTION M1601.3.1 OR ICC IMC, SECTION 603.9 TO REDUCE LEAKAGE.
- ALL MATERIALS INSTALLED WITHIN PLENUM RETURN CLOSET SHALL BE ASTM E-84 25/50 FIRE/SMOKE RATED OR BE WRAPPED WITH ASTM E-84 25/50 FIRE/SMOKE RATED MATERIAL. USE PLENUM RATED FIELD WIRING EQUAL TO SOUTHWIRE WITHIN AHU CLOSET. FULLY INSULATE EXPOSED SCHEDULE 40 PVC PIPING WITH 3M FIRE BARRIER PLENUM WRAP 5A+ OR EQUAL.
- EXHAUST VENT DUCTWORK TO BE INSTALLED WITH A 1/2" SLOPE TOWARD OUTLETS FOR THE FIRST 5'-0". EXHAUST DUCTWORK TO BE INSTALLED WITH LONGITUDINAL SEAMS FACING UPWARD FOR THE ENTIRE LENGTH OF THE DUCTWORK.

REFERENCE NOTES: (X)

- MOUNT AHU PER DETAIL AND ROUTE REFRIGERANT LINES WITHIN MECHANICAL CLOSET WALL DOWN TO 1ST FLOOR AND UNDER SLAB TO GROUND MOUNTED CONDENSING UNIT. SEE PLUMBING PLANS FOR CONDENSATE DISPOSAL. ROUTE REFRIGERANT LINES PER RISER DIAGRAM.
- INSTALL DRYER EXHAUST WALL CONNECTION BOX PER DETAIL.
- ROUTE 4" EXHAUST DUCT FROM WALL MOUNTED EXHAUST FAN THROUGH TRUSS SPACE TO BUILDING SIDEWALL PER DETAIL. TERMINATE DUCT AT EXTERIOR WALL CAP PER RISER DIAGRAM.
- ROUTE 4" DRYER EXHAUST DUCT THROUGH TRUSS SPACE TO BUILDING SIDEWALL PER DETAIL. TERMINATE DUCT AT EXTERIOR WALL CAP (NO BIRD SCREEN) PER RISER DIAGRAM.
- MICROWAVE WITH DUCTLESS HOOD.
- PROVIDE FACTORY PANEL FOR RETURN AIR AND SERVICE ACCESS.
- PROVIDE HONEYWELL VISIONPRO 8000 TOUCHSCREEN 7-DAY PROGRAMMABLE THERMOSTAT OR EQUAL.
- PROVIDE LOUVER ABOVE DOOR TO THE LAUNDRY CLOSET FOR DRYER MAKE-UP AIR.

UL ASSEMBLY REQUIREMENTS:

- INSTALL LOWER FLOOR DUCTS IN THE L-500 FLOOR TRUSS SYSTEM. FOLLOW THE REQUIREMENTS OF THE UL LISTING FOR THE L-500 SYSTEM.
- INSTALL TOP FLOOR DUCTS IN THE P-500 ROOF TRUSS SYSTEM. FOLLOW THE REQUIREMENTS OF THE UL LISTING FOR THE P-500 SYSTEM.
- PROVIDE CEILING RADIATION DAMPERS AT ALL SUPPLY AND TRANSFER DUCTS AND REGISTER PENETRATIONS.
 - MAXIMUM DAMPER SIZE OF 324 SQUARE INCHES (18X18) AND NO MORE THAN 162 SQUARE INCHES PER 100 SF OF CEILING AREA.
 - MAINTAIN 1" BETWEEN DAMPERS AND TRUSSES.
 - PROVIDE MINIMUM 2" SEPARATION BETWEEN DAMPERS.
 - INSTALL ONLY RADIATION DAMPERS THAT ARE UL LISTED FOR THE ASSEMBLY IN WHICH THEY ARE INTENDED.

BLOWER DOOR TESTING REQUIREMENTS

PER FLORIDA ENERGY EFFICIENCY CODE SECTION R402.4 ALL APARTMENT UNITS LOCATED WITHIN BUILDINGS THAT ARE 3 STORIES OR LESS ARE REQUIRED TO BE LEAK TESTED WITH A MAXIMUM LEAK RATE OF NO GREATER THAN 7 AIR CHANGES PER HOUR. IF LEAK TESTING RESULTS SHOW A LEAK RATE HIGHER THAN 7 AIR CHANGES PER HOUR THE UNIT THERMAL ENVELOPE MUST BE SEALED ACCORDINGLY AND RE-TESTED. A PASSING CERTIFIED BLOWER DOOR TEST REPORT MUST BE SUPPLIED TO THE AUTHORITY HAVING JURISDICTION PRIOR TO CERTIFICATE OF OCCUPANCY.

PER FLORIDA MECHANICAL CODE SECTION 401.2 IF THE UNIT LEAK RATE IS FOUND TO BE LESS THAN 3 AIR CHANGES PER HOUR DEDICATED MECHANICAL VENTILATION WILL BE REQUIRED TO BE INSTALLED.

*DOES NOT APPLY TO BUILDINGS 4 STORIES OR GREATER

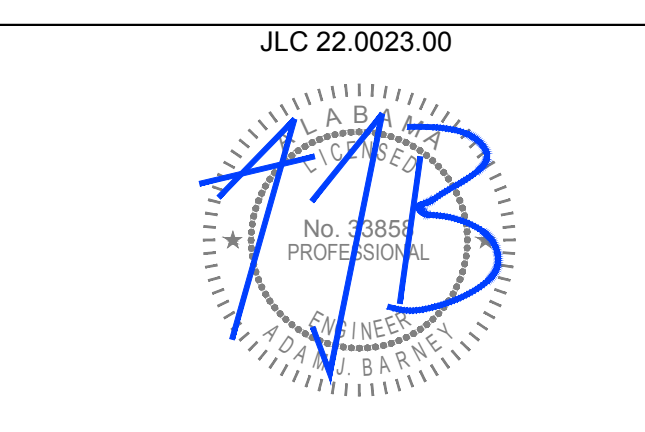


ISSUE HISTORY		
No.	Date	Description
1	04/15/22	Permit Submission

REVISION HISTORY		
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CA NO. 4050 - 1



THE MADISON
HUNTSVILLE, AL
Drawn: MJS/MB
Checked: BLS/AB
Approved: BLS/AB
Date: 04/15/2022
Project#: 5722

**ENLARGED UNIT PLANS
MECHANICAL**
M3.02



GENERAL NOTES:

1. PROVIDE 1" DOOR UNDER CUT IN ALL BEDROOMS IN ADDITION TO TRANSFER GRILLE.
2. ALL EXHAUST OUTLETS SHALL BE FARTHER THAN 3 FEET AWAY FROM ANY OPERABLE WINDOWS.
3. DUCT SYSTEMS ARE TO BE SEALED WITH TAPE COMPLYING WITH UL 181, MASTIC GASKETS, OR AN APPROVED SYSTEM AS REQUIRED BY THE ICC IRC, SECTION M1601.3.1 OR ICC IMC, SECTION 603.9 TO REDUCE LEAKAGE.
4. ALL MATERIALS INSTALLED WITHIN PLENUM RETURN CLOSET SHALL BE ASTM E-84 25/50 FIRE/SMOKE RATED OR BE WRAPPED WITH ASTM E-84 25/50 FIRE/SMOKE RATED MATERIAL. USE PLENUM RATED FIELD WIRING EQUAL TO SOUTHWIRE WITHIN AHU CLOSET. FULLY INSULATE EXPOSED SCHEDULE 40 PVC PIPING WITH 3M FIRE BARRIER PLENUM WRAP 5A+ OR EQUAL.
5. EXHAUST VENT DUCTWORK TO BE INSTALLED WITH A 1/4" SLOPE TOWARD OUTLETS FOR THE FIRST 5'-0". EXHAUST DUCTWORK TO BE INSTALLED WITH LONGITUDINAL SEAMS FACING UPWARD FOR THE ENTIRE LENGTH OF THE DUCTWORK.

REFERENCE NOTES: (X)

- ① MOUNT AHU PER DETAIL AND ROUTE REFRIGERANT LINES WITHIN MECHANICAL CLOSET WALL DOWN TO 1ST FLOOR AND UNDER SLAB TO GROUND MOUNTED CONDENSING UNIT. SEE PLUMBING PLANS FOR CONDENSATE DISPOSAL. ROUTE REFRIGERANT LINES PER RISER DIAGRAM.
- ② INSTALL DRYER EXHAUST WALL CONNECTION BOX PER DETAIL.
- ③ ROUTE 4" EXHAUST DUCT FROM WALL MOUNTED EXHAUST FAN THROUGH TRUSS SPACE TO BUILDING SIDEWALL. PER DETAIL. TERMINATE DUCT AT EXTERIOR WALL CAP PER RISER DIAGRAM.
- ④ ROUTE 4" DRYER EXHAUST DUCT THROUGH TRUSS SPACE TO BUILDING SIDEWALL PER DETAIL. TERMINATE DUCT AT EXTERIOR WALL CAP (NO BIRD SCREEN) PER RISER DIAGRAM.
- ⑤ MICROWAVE WITH DUCTLESS HOOD.
- ⑥ PROVIDE FACTORY PANEL FOR RETURN AIR AND SERVICE ACCESS.
- ⑦ PROVIDE HONEYWELL VISIONPRO 8000 TOUCHSCREEN 7-DAY PROGRAMMABLE THERMOSTAT OR EQUAL.
- ⑧ PROVIDE LOUVER ABOVE DOOR TO THE LAUNDRY CLOSET FOR DRYER MAKE-UP AIR.

UL ASSEMBLY REQUIREMENTS:

- INSTALL LOWER FLOOR DUCTS IN THE L-500 FLOOR TRUSS SYSTEM. FOLLOW THE REQUIREMENTS OF THE UL LISTING FOR THE L-500 SYSTEM.
- INSTALL TOP FLOOR DUCTS IN THE P-500 ROOF TRUSS SYSTEM. FOLLOW THE REQUIREMENTS OF THE UL LISTING FOR THE P-500 SYSTEM.
1. PROVIDE CEILING RADIATION DAMPERS AT ALL SUPPLY AND TRANSFER DUCTS AND REGISTER PENETRATIONS.
 2. MAXIMUM DAMPER SIZE OF 324 SQUARE INCHES (18X18) AND NO MORE THAN 162 SQUARE INCHES PER 100 SF OF CEILING AREA.
 3. MAINTAIN 1" BETWEEN DAMPERS AND TRUSSES.
 4. PROVIDE MINIMUM 2" SEPARATION BETWEEN DAMPERS.
 5. INSTALL ONLY RADIATION DAMPERS THAT ARE UL LISTED FOR THE ASSEMBLY IN WHICH THEY ARE INTENDED.

BLOWER DOOR TESTING REQUIREMENTS

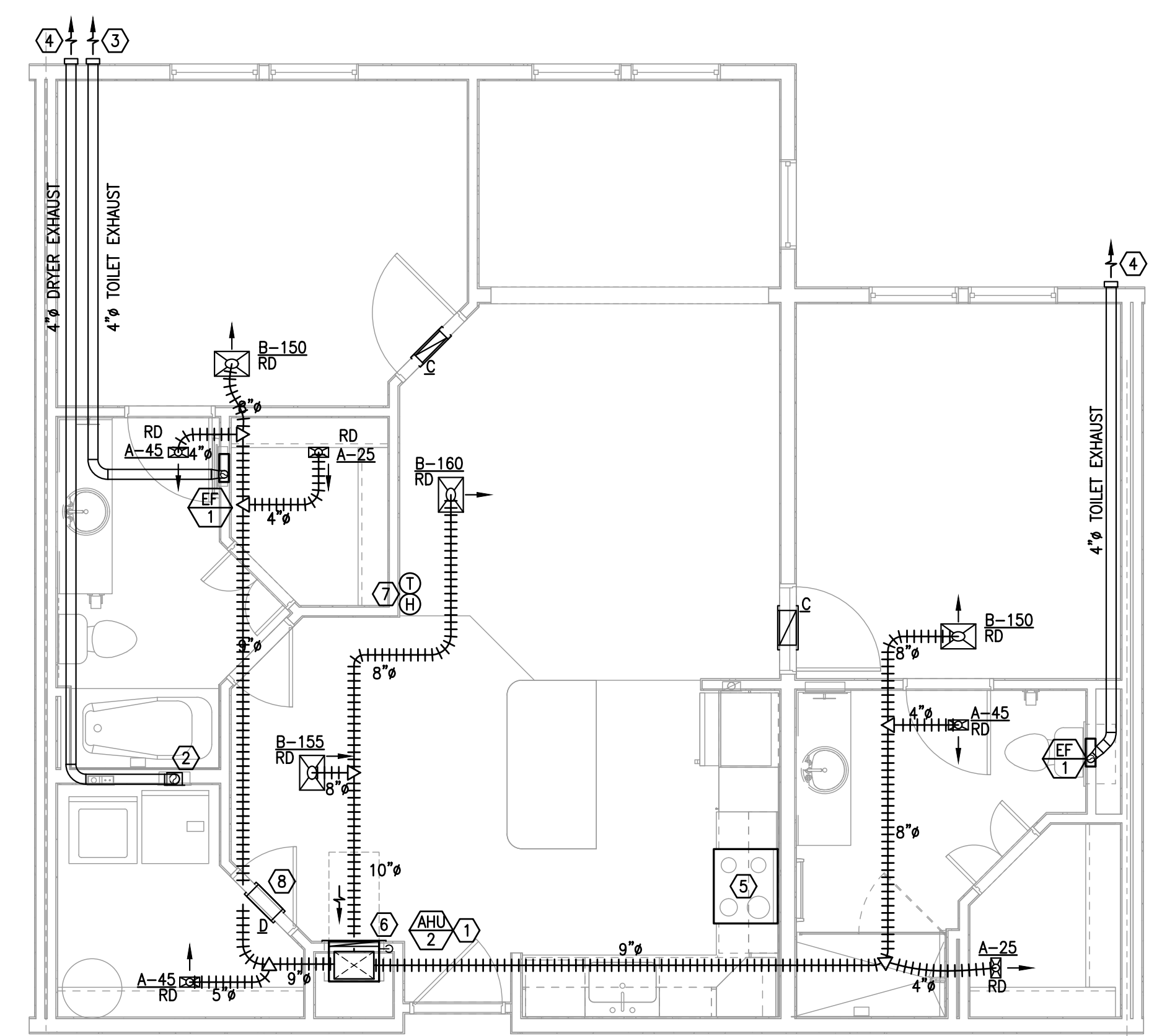
PER FLORIDA ENERGY EFFICIENCY CODE SECTION R402.4 ALL APARTMENT UNITS LOCATED WITHIN BUILDINGS THAT ARE 3 STORIES OR LESS ARE REQUIRED TO BE LEAK TESTED WITH A MAXIMUM LEAK RATE OF NO GREATER THAN 7 AIR CHANGES PER HOUR. IF LEAK TESTING RESULTS SHOW A LEAK RATE HIGHER THAN 7 AIR CHANGES PER HOUR THE UNIT THERMAL ENVELOPE MUST BE SEALED ACCORDINGLY AND RE-TESTED. A PASSING CERTIFIED BLOWER DOOR TEST REPORT MUST BE SUPPLIED TO THE AUTHORITY HAVING JURISDICTION PRIOR TO CERTIFICATE OF OCCUPANCY.

PER FLORIDA MECHANICAL CODE SECTION 401.2 IF THE UNIT LEAK RATE IS FOUND TO BE LESS THAN 3 AIR CHANGES PER HOUR DEDICATED MECHANICAL VENTILATION WILL BE REQUIRED TO BE INSTALLED.

**DOES NOT APPLY TO BUILDINGS 4 STORIES OR GREATER*

NATURAL VENTILATION CALC.	
UNIT 2BS	
UNIT FLOOR AREA:	1,002
MIN. VENTILATION AREA: (UNIT AREA * 4%):	40.08
ACTUAL VENTILATION AREA: 74.75 (OPERABLE OPENING AREA)	
NATURAL VENTILATION CALCULATIONS BASED ON FLORIDA MECHANICAL CODE CHAPTER 4, SECTION 402.	
PER FMC SECTION 401.2 NATURAL VENTILATION IS BEING PROVIDED TO THE DWELLING UNIT THROUGH OPERABLE WINDOWS AND DOORS. THE ADJOINING KITCHEN SPACE COMMUNICATES DIRECTLY WITH THE LIVING NATURALLY VENTILATED LIVING SPACE PER FMC SECTION 402.3 THEREBY NO MECHANICAL EXHAUST IS REQUIRED FOR THE KITCHEN.	
ALL AREAS CALCULATED IN SQUARE FEET	

DRYER VENT LENGTH CALC.	
UNIT 2BS	
HORIZONTAL LENGTH:	26.37
VERTICAL LENGTH:	7
90° (5 FT EACH):	10
45° (2.5 FT EACH):	0
TOTAL EQ. LENGTH (FT):	43.37
THIS DRYER VENT TOTAL EQUIVALENT LENGTH EXCEEDS THE CODE MAXIMUM OF 35 FEET. ANY CLOTHES DRYER CONNECTED TO THE DRYER EXHAUST SYSTEM IS REQUIRED TO HAVE A MANUFACTURER'S SERVICE RATING THAT MEETS OR EXCEEDS THE OVERALL DRYER VENT LENGTH OF THIS SYSTEM AS CALCULATED PER THE DRYER MANUFACTURER REQUIREMENTS.	
MECHANICAL CONTRACTOR TO PROVIDE PERMANENTLY AFFIXED LABEL IDENTIFYING THE TOTAL EQUIVALENT LENGTH OF THE UNIT DRYER EXHAUST SYSTEM AS LISTED ABOVE WITHIN 6 FEET OF THE DRYER EXHAUST DUCTWORK CONNECTION STATING "THIS DRYER VENT IS 43.37' LONG AND REQUIRES A DRYER CAPABLE OF MEETING THIS DRYER VENT LENGTH".	



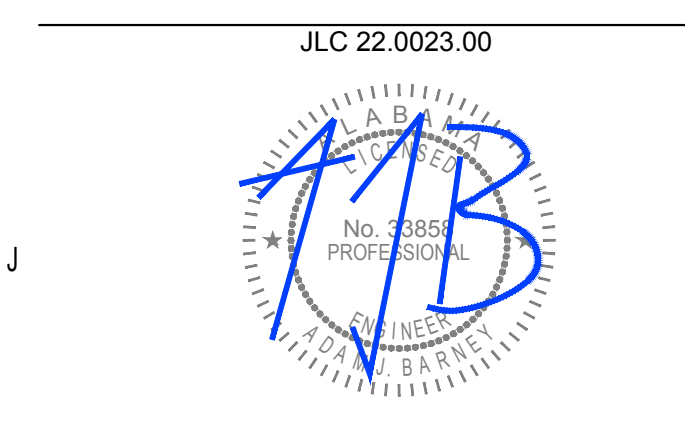
G5 UNIT 2Bs - MECHANICAL
1/4" = 1'-0"

ISSUE HISTORY		
No.	Date	Description
1	04/15/22	Permit Submission

REVISION HISTORY		
No.	Date	Description

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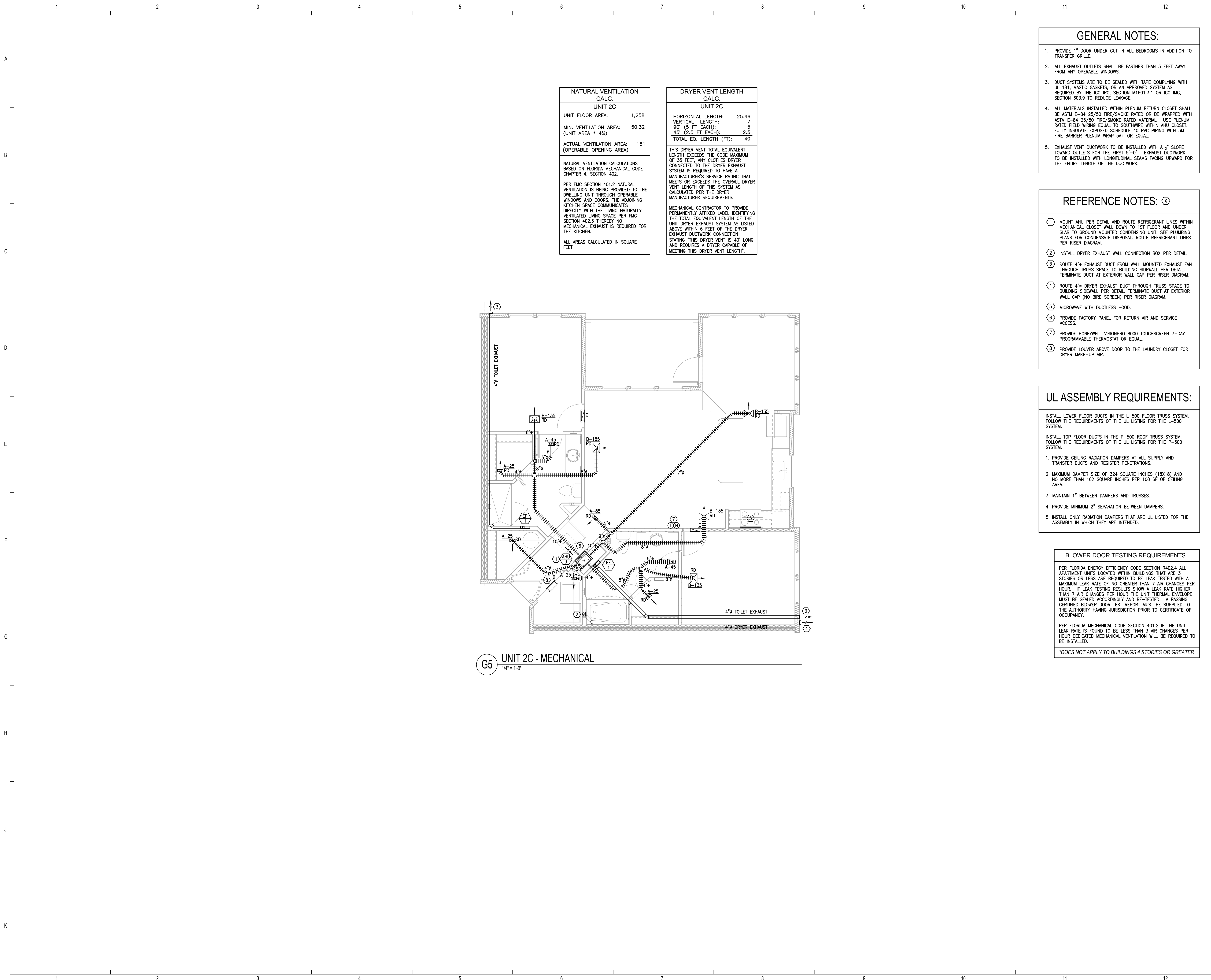


Drawn:	M/R/SMB
Checked:	BLSA/B
Approved:	BLSA/B
Date:	04/15/2022
Project #:	5722

THE MADISON
HUNTSVILLE, AL

ENLARGED UNIT PLANS MECHANICAL

M3.05



NATURAL VENTILATION CALC.	
UNIT 2C	
UNIT FLOOR AREA:	1,258
MIN. VENTILATION AREA: (UNIT AREA * 4%)	50.32
ACTUAL VENTILATION AREA: (OPERABLE OPENING AREA)	151
NATURAL VENTILATION CALCULATIONS BASED ON FLORIDA MECHANICAL CODE CHAPTER 4, SECTION 402.	
PER FMC SECTION 401.2 NATURAL VENTILATION IS BEING PROVIDED TO THE DWELLING UNIT THROUGH OPERABLE WINDOWS AND DOORS. THE ADJOINING KITCHEN SPACE COMMUNICATES DIRECTLY WITH THE LIVING NATURALLY VENTILATED LIVING SPACE PER FMC SECTION 402.3 THEREBY NO MECHANICAL EXHAUST IS REQUIRED FOR THE KITCHEN.	
ALL AREAS CALCULATED IN SQUARE FEET	

DRYER VENT LENGTH CALC.	
UNIT 2C	
HORIZONTAL LENGTH:	25.46
VERTICAL LENGTH:	7
90° (5 FT EACH):	5
45° (2.5 FT EACH):	2.5
TOTAL EQ. LENGTH (FT):	40
THIS DRYER VENT TOTAL EQUIVALENT LENGTH EXCEEDS THE CODE MAXIMUM OF 35 FEET. ANY CLOTHES DRYER CONNECTED TO THE DRYER EXHAUST SYSTEM IS REQUIRED TO HAVE A MANUFACTURER'S SERVICE RATING THAT MEETS OR EXCEEDS THE OVERALL DRYER VENT LENGTH OF THIS SYSTEM AS CALCULATED PER THE DRYER MANUFACTURER REQUIREMENTS.	
MECHANICAL CONTRACTOR TO PROVIDE PERMANENTLY AFFIXED LABEL IDENTIFYING THE TOTAL EQUIVALENT LENGTH OF THE UNIT DRYER EXHAUST SYSTEM AS LISTED ABOVE WITHIN 6 FEET OF THE DRYER EXHAUST DUCTWORK CONNECTION STATING "THIS DRYER VENT IS 40' LONG AND REQUIRES A DRYER CAPABLE OF MEETING THIS DRYER VENT LENGTH".	

- ### GENERAL NOTES:
- PROVIDE 1" DOOR UNDER CUT IN ALL BEDROOMS IN ADDITION TO TRANSFER GRILLE.
 - ALL EXHAUST OUTLETS SHALL BE FARTHER THAN 3 FEET AWAY FROM ANY OPERABLE WINDOWS.
 - DUCT SYSTEMS ARE TO BE SEALED WITH TAPE COMPLYING WITH UL 181, MASTIC GASKETS, OR AN APPROVED SYSTEM AS REQUIRED BY THE ICC IRC, SECTION M1601.3.1 OR ICC IMC, SECTION 603.9 TO REDUCE LEAKAGE.
 - ALL MATERIALS INSTALLED WITHIN PLENUM RETURN CLOSET SHALL BE ASTM E-84 25/50 FIRE/SMOKE RATED OR BE WRAPPED WITH ASTM E-84 25/50 FIRE/SMOKE RATED MATERIAL. USE PLENUM RATED FIELD WIRING EQUAL TO SOUTHWIRE WITHIN AHU CLOSET. FULLY INSULATE EXPOSED SCHEDULE 40 PVC PIPING WITH 3M FIRE BARRIER PLENUM WRAP 5A+ OR EQUAL.
 - EXHAUST VENT DUCTWORK TO BE INSTALLED WITH A 1/4" SLOPE TOWARD OUTLETS FOR THE FIRST 5'-0". EXHAUST DUCTWORK TO BE INSTALLED WITH LONGITUDINAL SEAMS FACING UPWARD FOR THE ENTIRE LENGTH OF THE DUCTWORK.

- ### REFERENCE NOTES: (X)
- MOUNT AHU PER DETAIL AND ROUTE REFRIGERANT LINES WITHIN MECHANICAL CLOSET WALL DOWN TO 1ST FLOOR AND UNDER SLAB TO GROUND MOUNTED CONDENSING UNIT. SEE PLUMBING PLANS FOR CONDENSATE DISPOSAL. ROUTE REFRIGERANT LINES PER RISER DIAGRAM.
 - INSTALL DRYER EXHAUST WALL CONNECTION BOX PER DETAIL.
 - ROUTE 4" EXHAUST DUCT FROM WALL MOUNTED EXHAUST FAN THROUGH TRUSS SPACE TO BUILDING SIDEWALL PER DETAIL. TERMINATE DUCT AT EXTERIOR WALL CAP PER RISER DIAGRAM.
 - ROUTE 4" DRYER EXHAUST DUCT THROUGH TRUSS SPACE TO BUILDING SIDEWALL PER DETAIL. TERMINATE DUCT AT EXTERIOR WALL CAP (NO BIRD SCREEN) PER RISER DIAGRAM.
 - MICROWAVE WITH DUCTLESS HOOD.
 - PROVIDE FACTORY PANEL FOR RETURN AIR AND SERVICE ACCESS.
 - PROVIDE HONEYWELL VISIONPRO 8000 TOUCHSCREEN 7-DAY PROGRAMMABLE THERMOSTAT OR EQUAL.
 - PROVIDE LOUVER ABOVE DOOR TO THE LAUNDRY CLOSET FOR DRYER MAKE-UP AIR.

- ### UL ASSEMBLY REQUIREMENTS:
- INSTALL LOWER FLOOR DUCTS IN THE L-500 FLOOR TRUSS SYSTEM. FOLLOW THE REQUIREMENTS OF THE UL LISTING FOR THE L-500 SYSTEM.
- INSTALL TOP FLOOR DUCTS IN THE P-500 ROOF TRUSS SYSTEM. FOLLOW THE REQUIREMENTS OF THE UL LISTING FOR THE P-500 SYSTEM.
- PROVIDE CEILING RADIATION DAMPERS AT ALL SUPPLY AND TRANSFER DUCTS AND REGISTER PENETRATIONS.
 - MAXIMUM DAMPER SIZE OF 324 SQUARE INCHES (18X18) AND NO MORE THAN 162 SQUARE INCHES PER 100 SF OF CEILING AREA.
 - MAINTAIN 1" BETWEEN DAMPERS AND TRUSSES.
 - PROVIDE MINIMUM 2" SEPARATION BETWEEN DAMPERS.
 - INSTALL ONLY RADIATION DAMPERS THAT ARE UL LISTED FOR THE ASSEMBLY IN WHICH THEY ARE INTENDED.

BLOWER DOOR TESTING REQUIREMENTS

PER FLORIDA ENERGY EFFICIENCY CODE SECTION R402.4 ALL APARTMENT UNITS LOCATED WITHIN BUILDINGS THAT ARE 3 STORIES OR LESS ARE REQUIRED TO BE LEAK TESTED WITH A MAXIMUM LEAK RATE OF NO GREATER THAN 7 AIR CHANGES PER HOUR. IF LEAK TESTING RESULTS SHOW A LEAK RATE HIGHER THAN 7 AIR CHANGES PER HOUR THE UNIT THERMAL ENVELOPE MUST BE SEALED ACCORDINGLY AND RE-TESTED. A PASSING CERTIFIED BLOWER DOOR TEST REPORT MUST BE SUPPLIED TO THE AUTHORITY HAVING JURISDICTION PRIOR TO CERTIFICATE OF OCCUPANCY.

PER FLORIDA MECHANICAL CODE SECTION 401.2 IF THE UNIT LEAK RATE IS FOUND TO BE LESS THAN 3 AIR CHANGES PER HOUR DEDICATED MECHANICAL VENTILATION WILL BE REQUIRED TO BE INSTALLED.

*DOES NOT APPLY TO BUILDINGS 4 STORIES OR GREATER

G5 UNIT 2C - MECHANICAL
1/4" = 1'-0"



ISSUE HISTORY

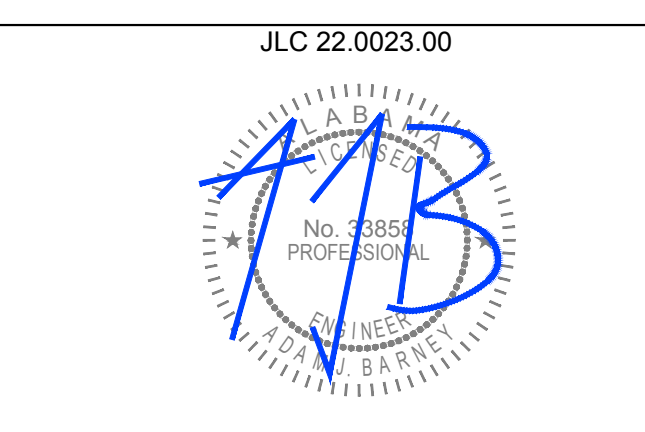
No.	Date	Description
1	04/15/22	Permit Submission

REVISION HISTORY

No.	Date	Description

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Drawn:	M/R/S/M/B
Checked:	BLS/A/B
Approved:	BLS/A/B
Date:	04/15/2022
Project #:	5722

THE MADISON
HUNTSVILLE, AL

ENLARGED UNIT PLANS
MECHANICAL
M3.06

GENERAL NOTES:

1. CONTRACTOR TO VERIFY ALL MECHANICAL EQUIPMENT SELECTED FITS WITHIN DESIGNATED SPACE SHOWN ON MECHANICAL PLANS AND PROVIDES THE CORRECT CLEARANCES REQUIRED BY THE MANUFACTURER.
2. CONTRACTOR SHALL COORDINATE VOLTAGE, PHASE AND REQUIRED MOCP FOR EACH PIECE OF EQUIPMENT WITH THE ELECTRICAL CONTRACTOR PRIOR TO ORDERING.
3. IF PRODUCTS/EQUIPMENT ARE VALUE ENGINEERED OR SUBSTITUTED IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD COORDINATE ALL NEW PRODUCTS/EQUIPMENT REQUIREMENTS WITH OTHER DISCIPLINES/TRADES.



AIR DEVICE SCHEDULE (CORRIDORS)

MARK	DESCRIPTION	FACE SIZE	NECK	MATERIAL	MANUFACTURER & MODEL NO.	NOTES
CA	LOUVERED FACE SUPPLY DIFFUSER - CEILING	12"x12"	SEE PLAN	STEEL	USAIRE 4700	1.
CB	LOUVERED FACE RETURN GRILLE	18"x18"	SEE PLAN	STEEL	USAIRE RHF	1.

NOTES:
1. COORDINATE SURFACE FINISHES WITH ARCHITECTURAL DRAWINGS.

OUTSIDE AIR CALCULATIONS (BLDG 1 CORRIDORS)

CLASSIFICATION	OCC. FACTOR OCCUPANCY/ 1000 SQFT. (PERSONS)	ASHRAE 62.1 VALUES PER TABLE 6.2.2.1		SPACE AREA (SQFT)	SPACE LOAD (PERSONS)	OUTDOOR AIR REQUIRED (CFM)	OUTDOOR AIR SUPPLIED (CFM)
		Rp	Ra				
1ST FLOOR							
1ST FLOOR CORRIDOR	-	-	0.06	1,310	-	78.60	80
2ND FLOOR							
2ND FLOOR CORRIDOR	-	-	0.06	1,310	-	78.60	80
3RD FLOOR							
3RD FLOOR CORRIDOR	-	-	0.06	1,310	-	78.60	80
4TH FLOOR							
4TH FLOOR CORRIDOR	-	-	0.06	1,310	-	78.60	80
TOTAL	-	-	-	-	-	314.40	320

NOTES:
1. REQUIRED OUTDOOR VENTILATION AIR VALUES TAKEN FROM ASHRAE 62.1, TABLE 6.2.2.1.
VENTILATION BREATHING ZONE FORMULA: $Vbz = Rp + Pz + Ra + Az$
Pz = OCCUPANCY FACTOR * SPACE AREA
2. OUTSIDE AIR CALC. REFERENCES CHAPTER 15 OF THE 2020 EDITION OF THE OF THE FLORIDA BUILDING BUILDING CODE (MECHANICAL).
*AREA DOES NOT INCLUDE RESTROOMS.

OUTSIDE AIR CALCULATIONS (BLDG 2 CORRIDORS)

CLASSIFICATION	OCC. FACTOR OCCUPANCY/ 1000 SQFT. (PERSONS)	ASHRAE 62.1 VALUES PER TABLE 6.2.2.1		SPACE AREA (SQFT)	SPACE LOAD (PERSONS)	OUTDOOR AIR REQUIRED (CFM)	OUTDOOR AIR SUPPLIED (CFM)
		Rp	Ra				
1ST FLOOR							
1ST FLOOR CORRIDOR	-	-	0.06	1,310	-	78.60	80
2ND FLOOR							
2ND FLOOR CORRIDOR	-	-	0.06	1,310	-	78.60	80
3RD FLOOR							
3RD FLOOR CORRIDOR	-	-	0.06	1,310	-	78.60	80
4TH FLOOR							
4TH FLOOR CORRIDOR	-	-	0.06	1,310	-	78.60	80
TOTAL	-	-	-	-	-	314.40	320

NOTES:
1. REQUIRED OUTDOOR VENTILATION AIR VALUES TAKEN FROM ASHRAE 62.1, TABLE 6.2.2.1.
VENTILATION BREATHING ZONE FORMULA: $Vbz = Rp + Pz + Ra + Az$
Pz = OCCUPANCY FACTOR * SPACE AREA
2. OUTSIDE AIR CALC. REFERENCES CHAPTER 15 OF THE 2020 EDITION OF THE OF THE FLORIDA BUILDING BUILDING CODE (MECHANICAL).
*AREA DOES NOT INCLUDE RESTROOMS.

FLEX DUCT SCHEDULE

CFM	FLEX SIZE
0 - 35	4"
36 - 60	5"
61 - 100	6"
101 - 140	7"
141 - 210	8"
211 - 280	9"
281 - 400	10"
401 - 600	12"
601 - 900	14"
901 - 1,300	16"
1,300 - 1,700	18"

COORDOR DX SPLIT AIR HANDLING UNIT SCHEDULE

MARK	LOCATION SERVED	FAN					COOLING COIL			FILTERS		ELECTRIC HEATING COIL			UNIT INFORMATION			NOTES					
		TOTAL AIR FLOW (CFM)	OUTSIDE AIR FLOW (CFM)	EXTERNAL STATIC PRESS. (IN.WG)	DRIVE TYPE	HP	ENTERING AIR TEMP. (° F DB/WS)	LEAVING AIR TEMP. (° F DB/WS)	TOTAL CAPACITY (BTUH)	TYPE	EFFICIENCY	THICKNESS	NO. OF STAGES	TOTAL KW	VOLTAGE/PHASE	SINGLE POINT UNIT ELEC. REQUIREMENTS	UNIT SIZE (H"WxD")		OPERATING WEIGHT (LBS.)	MANUFACTURER	MODEL NUMBER	MOUNTING	
AHU-1.1	CORRIDOR	1,000	80	0.8	DIRECT	3/4	80.0/67.0	56.0/54.0	30,000	THROWAWAY	25%-30%	1"	1	5	208/1Ø	27.0	30	54"x18"x21"	129	GOODMAN OR EQUAL	ASP137814*	METAL STAND	1., 2., 3. & 4.
AHU-1.2	CORRIDOR	1,000	80	0.8	DIRECT	3/4	80.0/67.0	56.0/54.0	30,000	THROWAWAY	25%-30%	1"	1	5	208/1Ø	27.0	30	54"x18"x21"	129	GOODMAN OR EQUAL	ASP137814*	METAL STAND	1., 2., 3. & 4.
AHU-1.3	CORRIDOR	1,000	80	0.8	DIRECT	3/4	80.0/67.0	56.0/54.0	30,000	THROWAWAY	25%-30%	1"	1	5	208/1Ø	27.0	30	54"x18"x21"	129	GOODMAN OR EQUAL	ASP137814*	METAL STAND	1., 2., 3. & 4.
AHU-1.4	CORRIDOR	1,000	80	0.8	DIRECT	3/4	80.0/67.0	56.0/54.0	30,000	THROWAWAY	25%-30%	1"	1	5	208/1Ø	27.0	30	54"x18"x21"	129	GOODMAN OR EQUAL	ASP137814*	METAL STAND	1., 2., 3. & 4.
AHU-2.1	CORRIDOR	1,000	80	0.8	DIRECT	3/4	80.0/67.0	56.0/54.0	30,000	THROWAWAY	25%-30%	1"	1	5	208/1Ø	27.0	30	54"x18"x21"	129	GOODMAN OR EQUAL	ASP137814*	METAL STAND	1., 2., 3. & 4.
AHU-2.2	CORRIDOR	1,000	80	0.8	DIRECT	3/4	80.0/67.0	56.0/54.0	30,000	THROWAWAY	25%-30%	1"	1	5	208/1Ø	27.0	30	54"x18"x21"	129	GOODMAN OR EQUAL	ASP137814*	METAL STAND	1., 2., 3. & 4.
AHU-2.3	CORRIDOR	1,000	80	0.8	DIRECT	3/4	80.0/67.0	56.0/54.0	30,000	THROWAWAY	25%-30%	1"	1	5	208/1Ø	27.0	30	54"x18"x21"	129	GOODMAN OR EQUAL	ASP137814*	METAL STAND	1., 2., 3. & 4.
AHU-2.4	CORRIDOR	1,000	80	0.8	DIRECT	3/4	80.0/67.0	56.0/54.0	30,000	THROWAWAY	25%-30%	1"	1	5	208/1Ø	27.0	30	54"x18"x21"	129	GOODMAN OR EQUAL	ASP137814*	METAL STAND	1., 2., 3. & 4.

NOTES:
1. PROVIDE COMPLETE WITH PULL TYPE DISCONNECT SWITCH (PROVIDED BY DIVISION 16) AND HONEYWELL TH8321WF1001 7-DAY PROGRAMMABLE THERMOSTAT AND INTEGRAL HUMIDISTAT.
2. ROUTE AND SIZE REFRIGERANT LINES PER MANUFACTURER'S REQUIREMENTS.
3. PROVIDE CONDENSATE OVERFLOW SWITCH SAFE-T SWITCH MODEL SS2 OR EQUIVALENT.
4. PROVIDE WITH MOTORIZED OUTSIDE AIR DAMPER. DAMPER TO BE INTERLOCKED WITH AHU AND BALANCED PER OUTSIDE AIR SCHEDULE.
5. PROVIDE SUPPLY AND RETURN DUCT MOUNTED SMOKE DETECTOR FOR UNITS 2000 CFM AND OVER.

CORRIDOR DX SPLIT CONDENSING UNIT SCHEDULE (STRAIGHT COOL)

MARK	LOCATION	COMPRESSOR		CONDENSER FANS		ELECTRICAL						UNIT INFORMATION		MANUFACTURER	MODEL NUMBER	NOTES		
		OUTDOOR DESIGN TEMP. (° F)	CAPACITY (QTY)	NOMINAL HP	VOLTAGE/PHASE	COMPRESSOR RLA QTY	CONDENSER FANS FLA (EA)	MCA	MOCP	SEER	UNIT SIZE (H"WxD")	OPERATING WEIGHT (LBS.)						
CU-1.1	GROUND	95°	1	100	1	1/6	208/1Ø	12.8	1	0.95	17.0	25	14.0	33"x29"x29"	162	GOODMAN OR EQUAL	GSK140311*	1. & 2.
CU-1.2	GROUND	95°	1	100	1	1/6	208/1Ø	12.8	1	0.95	17.0	25	14.0	33"x29"x29"	162	GOODMAN OR EQUAL	GSK140311*	1. & 2.
CU-1.3	GROUND	95°	1	100	1	1/6	208/1Ø	12.8	1	0.95	17.0	25	14.0	33"x29"x29"	162	GOODMAN OR EQUAL	GSK140311*	1. & 2.
CU-1.4	GROUND	95°	1	100	1	1/6	208/1Ø	12.8	1	0.95	17.0	25	14.0	33"x29"x29"	162	GOODMAN OR EQUAL	GSK140311*	1. & 2.
CU-2.1	GROUND	95°	1	100	1	1/6	208/1Ø	12.8	1	0.95	17.0	25	14.0	33"x29"x29"	162	GOODMAN OR EQUAL	GSK140311*	1. & 2.
CU-2.2	GROUND	95°	1	100	1	1/6	208/1Ø	12.8	1	0.95	17.0	25	14.0	33"x29"x29"	162	GOODMAN OR EQUAL	GSK140311*	1. & 2.
CU-2.3	GROUND	95°	1	100	1	1/6	208/1Ø	12.8	1	0.95	17.0	25	14.0	33"x29"x29"	162	GOODMAN OR EQUAL	GSK140311*	1. & 2.
CU-2.4	GROUND	95°	1	100	1	1/6	208/1Ø	12.8	1	0.95	17.0	25	14.0	33"x29"x29"	162	GOODMAN OR EQUAL	GSK140311*	1. & 2.

NOTES:
1. PROVIDE COMPLETE WITH PULL TYPE DISCONNECT SWITCH (PROVIDED BY DIVISION 16), TIME DELAY RELAY AND ANTI-SHORT CYCLE TIMER.
2. MOUNT AND SECURE CONDENSING UNITS PER DETAILS PROVIDED.

ISSUE HISTORY

No.	Date	Description
1	04/15/22	Permit Submission

REVISION HISTORY

No.	Date	Description
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Consulting Engineers

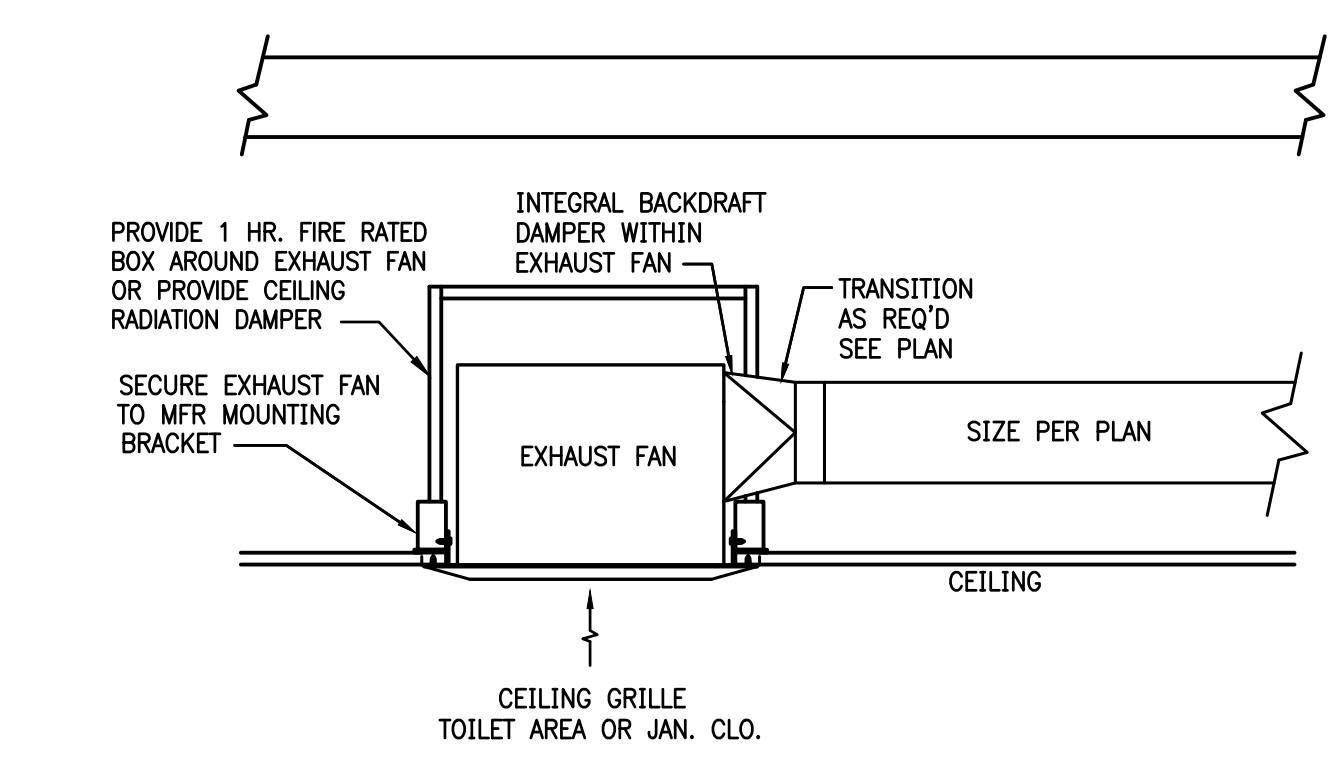
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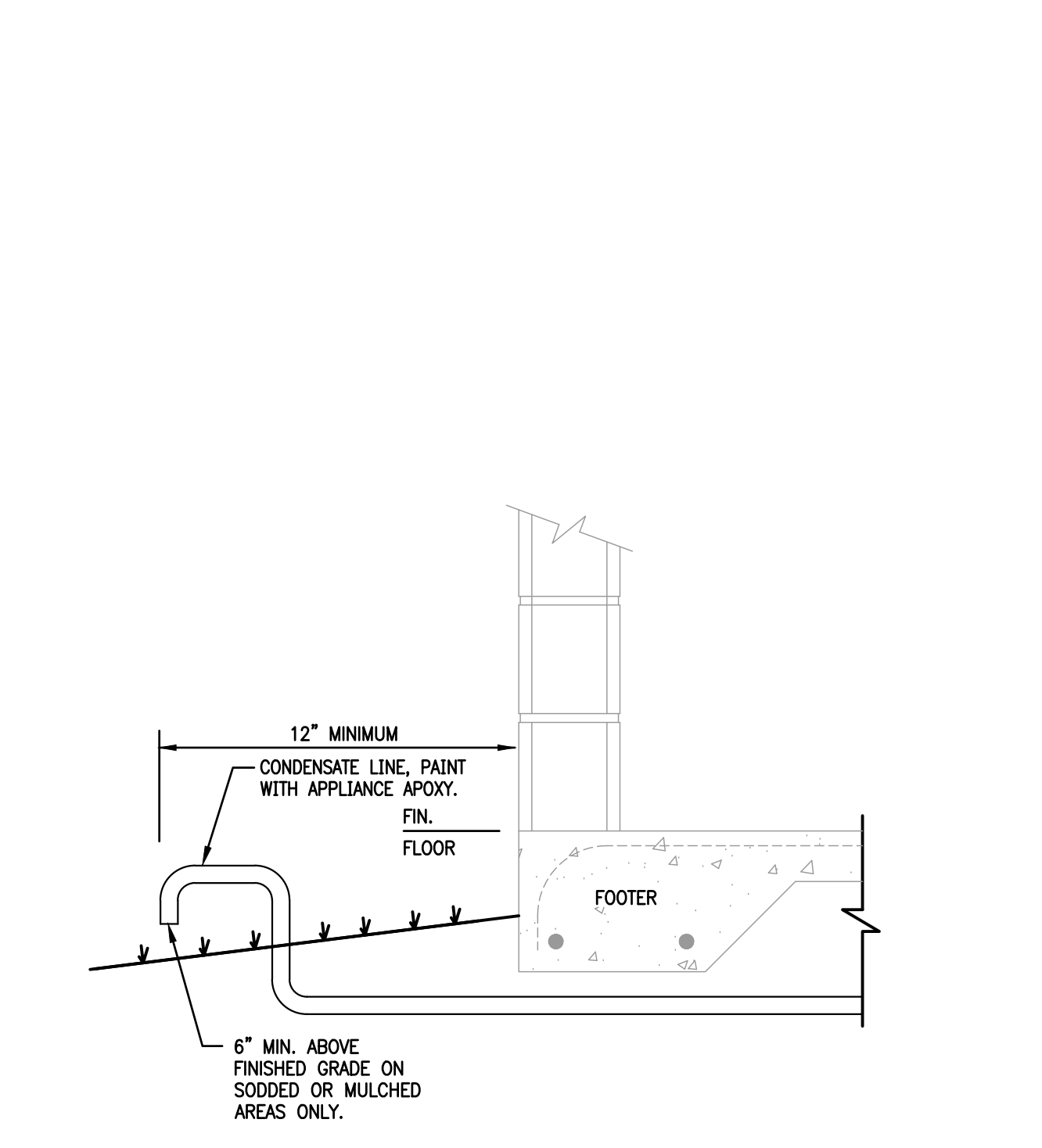
Drawn: MRS/SMB
Checked: BLS/SJB
Approved: BLS/SJB
Date: 04/15/2022
Project#: 5722

SCHEDULE MECHANICAL

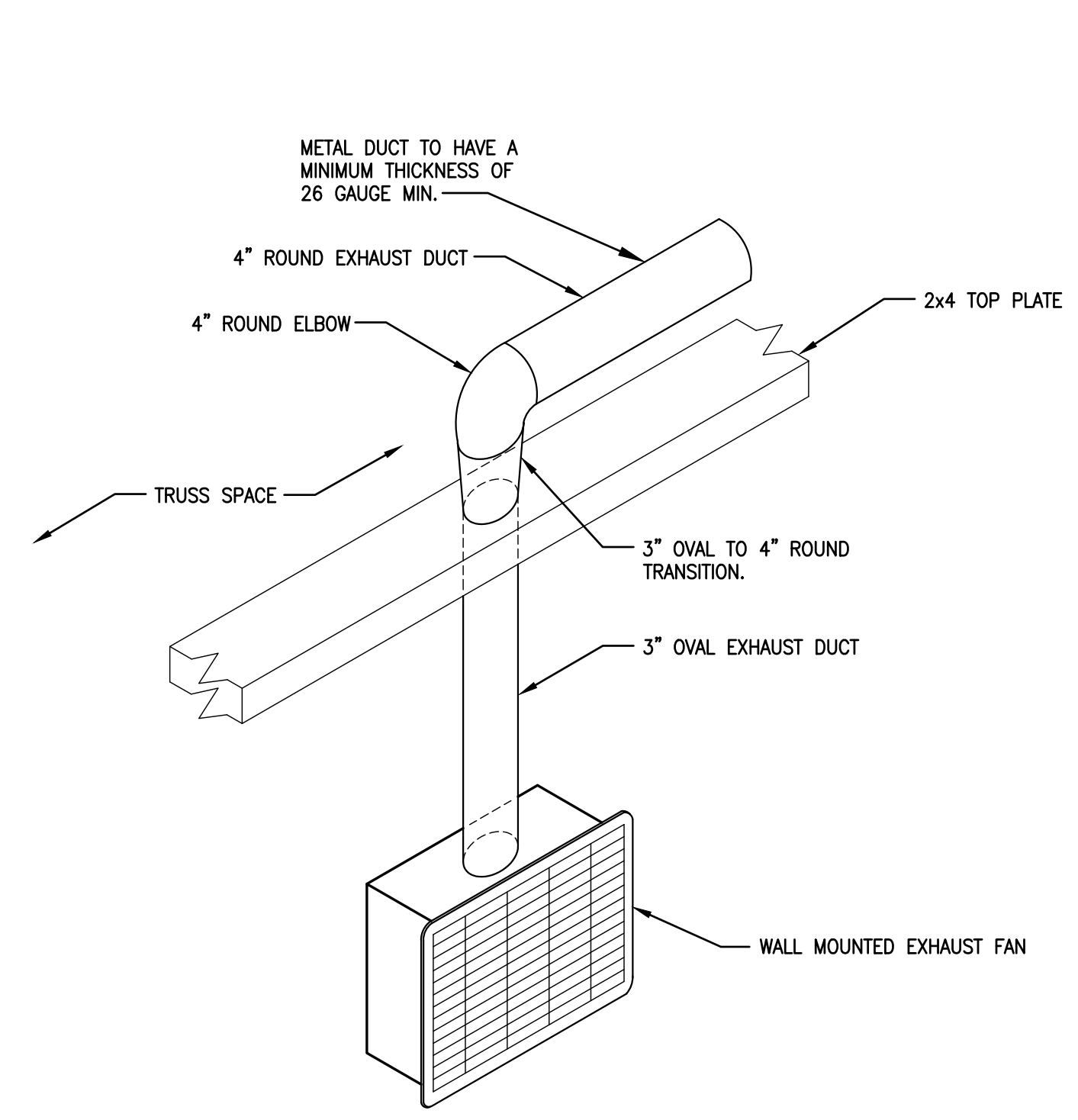
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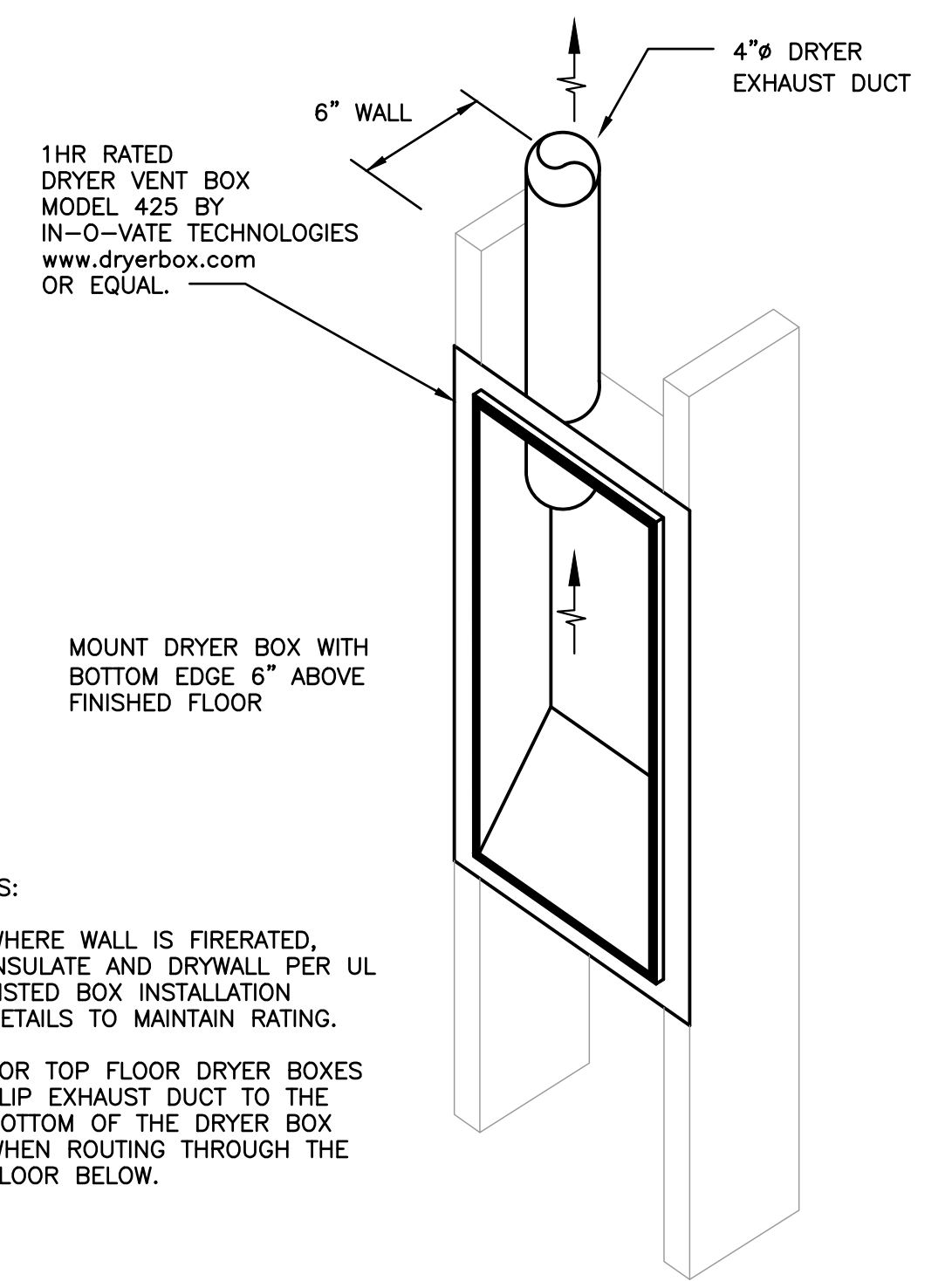
8 CEILING EXHAUST FAN SUPPORT DETAIL
NTS FIRE RATED CEILING



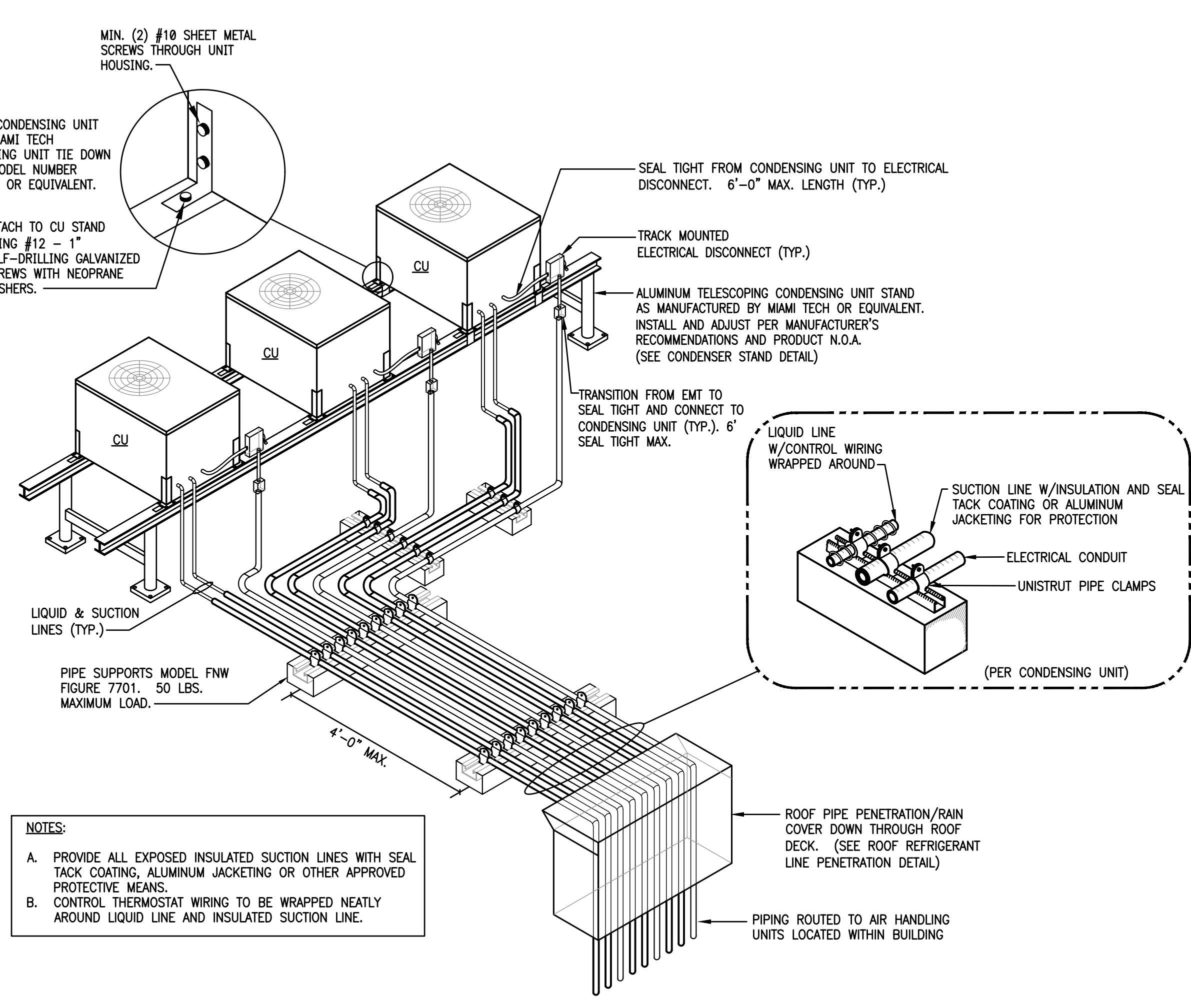
4 CONDENSATE DRAIN TERMINATION DETAIL
NTS



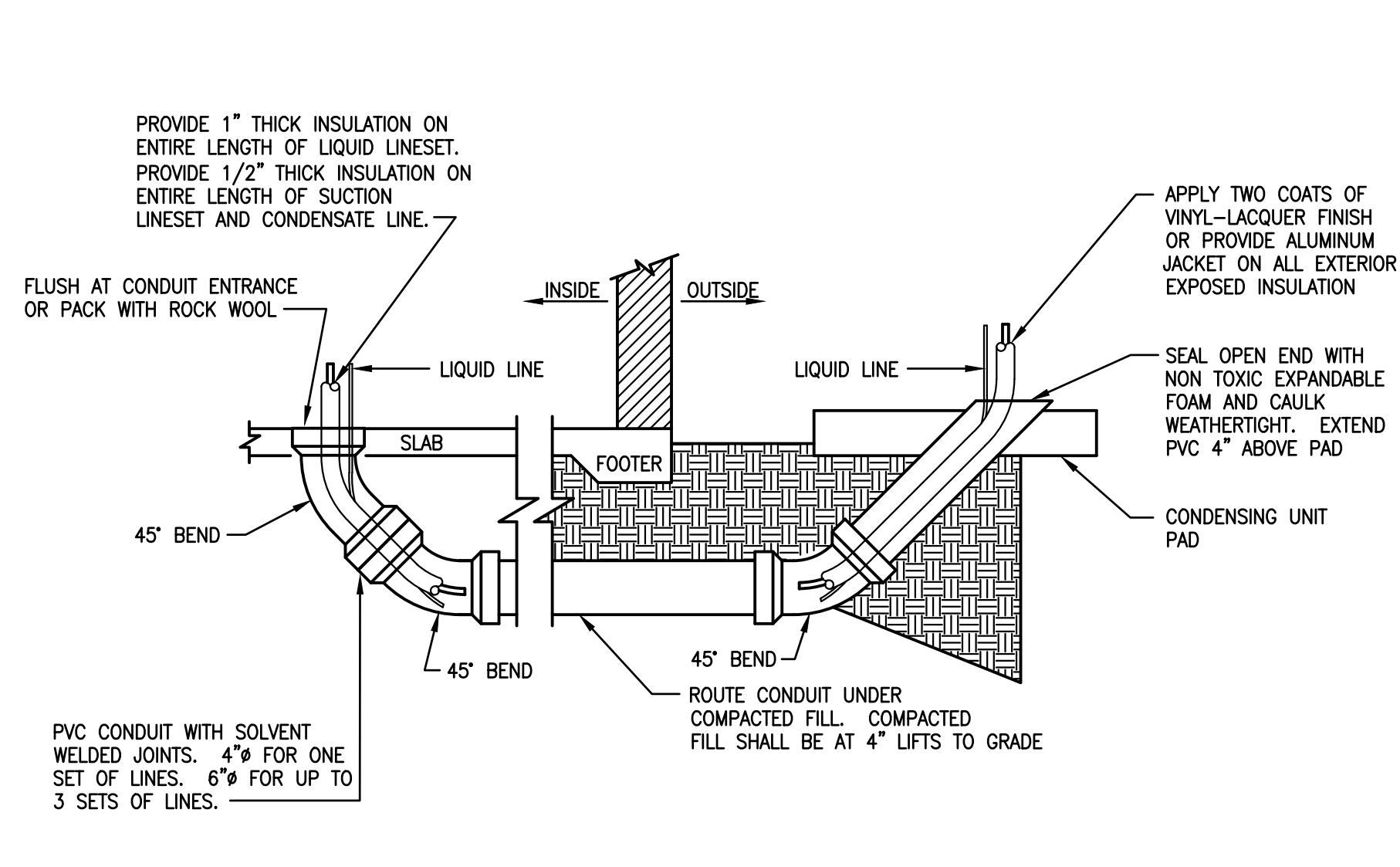
5 WALL MOUNTED EXHAUST FAN DETAIL UNITS
NTS



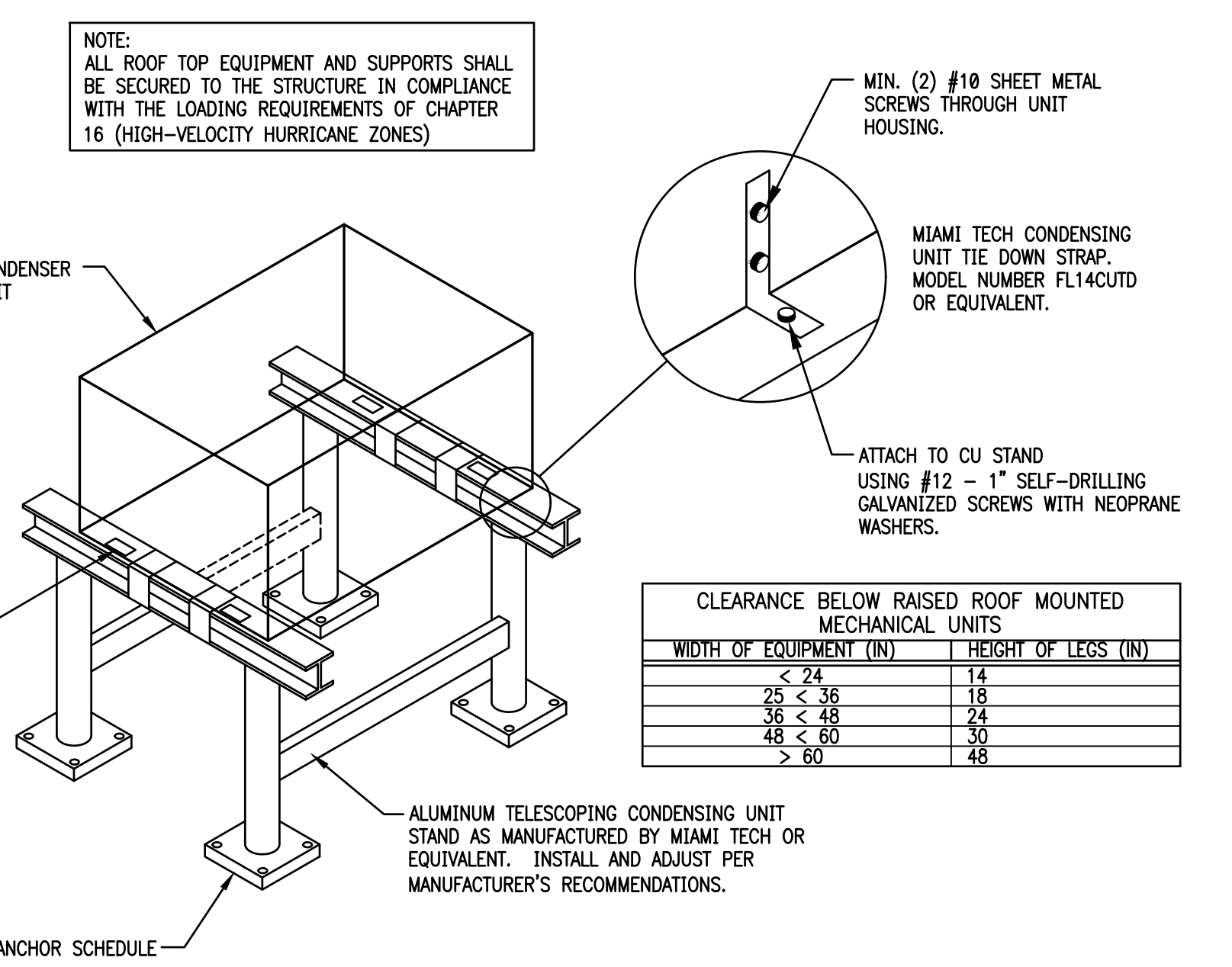
6 DRYER VENT BOX DETAIL
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2 ROOF MOUNTED CONDENSING UNIT PIPING DETAIL
NTS

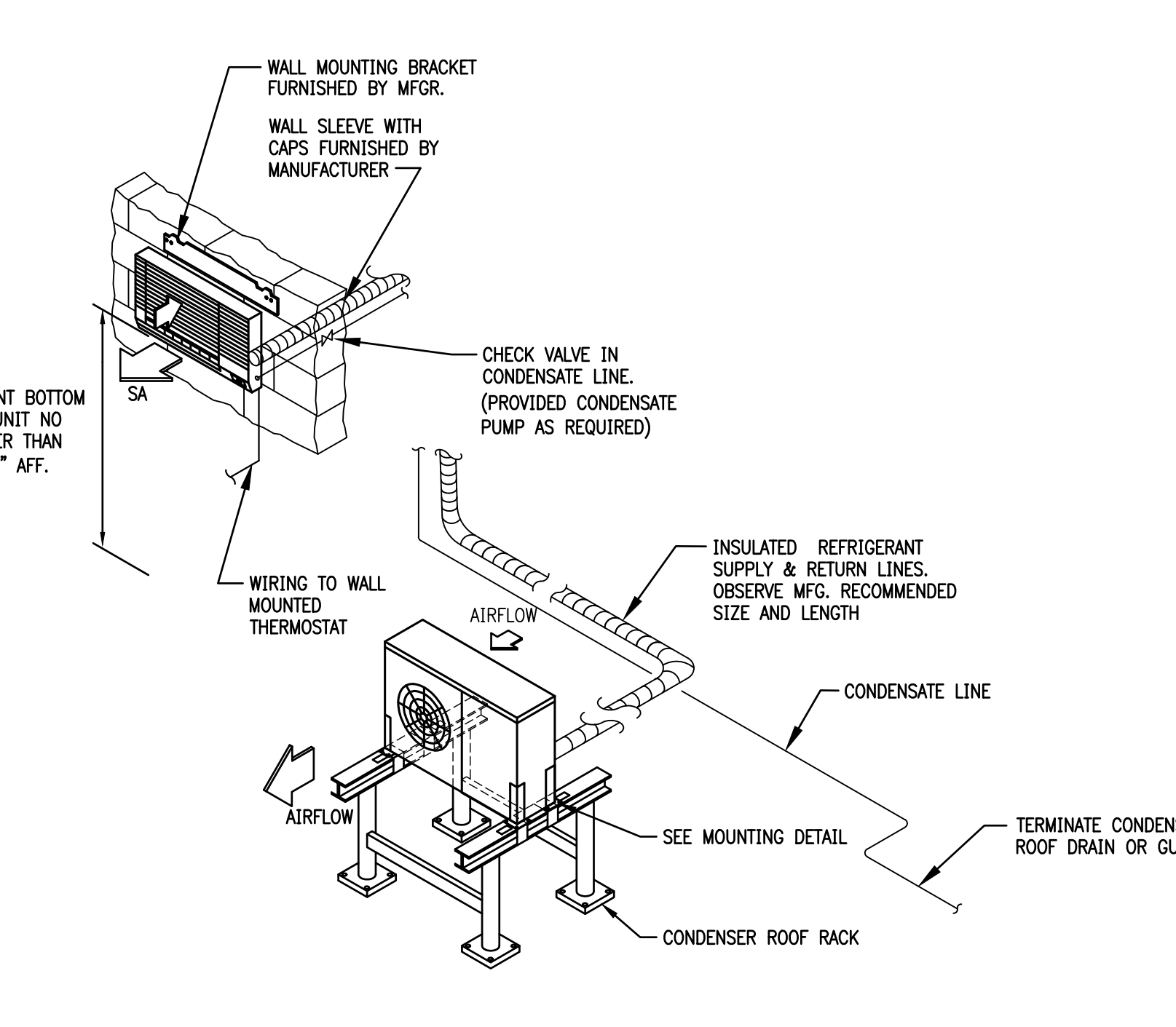


1 REFRIGERANT SLEEVE DETAIL
NTS



ANCHOR SCHEDULE		
ANCHOR TYPE/HOST STRUCTURE		ANCHOR DESCRIPTION
1	STEEL	3/8" SAE GRADE 5 SHEET METAL SCREWS WITH 1" MIN. WASHER, TO STRUCTURAL A36 STEEL MEMBERS (3/4" MIN HOST THICKNESS)
2	CONCRETE	3/4" CARBON STEEL WEDGE-BOLT CONCRETE ANCHOR WITH 1" MIN. WASHER, 2 1/2" EMBEDMENT & 6" MIN EDGE DISTANCE, 4 ANCHORS PER BASE PLATE, ONE IN EACH CORNER
3	WOOD	PROVIDE 2" MIN. LAG SCREW TIP TO TUP SPACING & 2" MIN. WOOD EDGE DISTANCE.
4	STEEL	3/8" SAE GRADE 5 THROBOLT WITH 1" MIN. WASHER & NUT, TO STRUCTURAL A36 STEEL MEMBERS (3/4" MIN HOST THICKNESS)

7 CONDENSER RACK DETAIL
NTS



3 WALL MOUNTED SPLIT SYSTEM SUPPORT DETAIL
NTS

ISSUE HISTORY		
No.	Date	Description
1	04/15/22	Permit Submission

REVISION HISTORY		
No.	Date	Description

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1180 HARWOOD AVE. SUITE 3000
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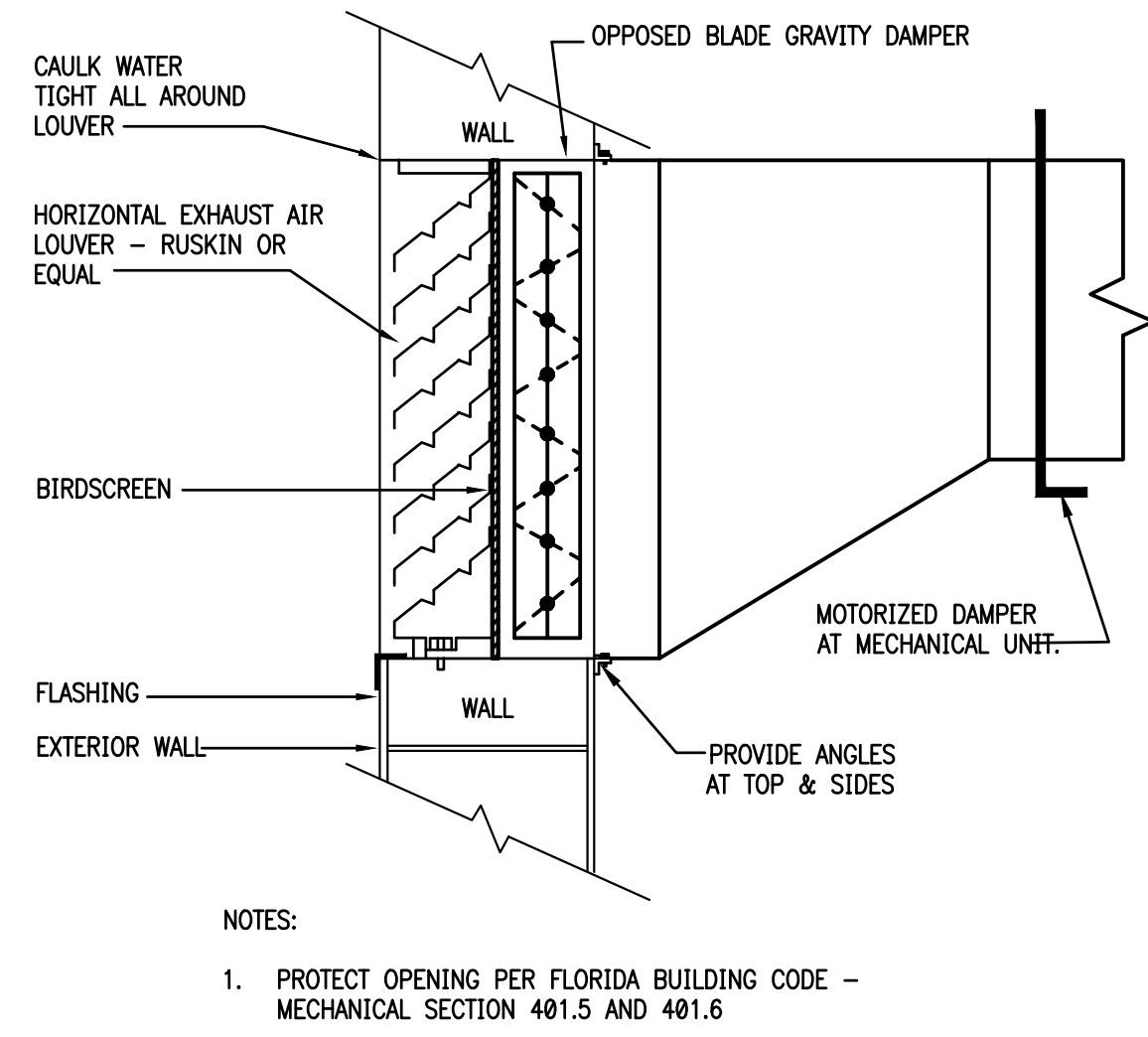
JLC 22.0023.00

THE MADISON
HUNTSVILLE, AL

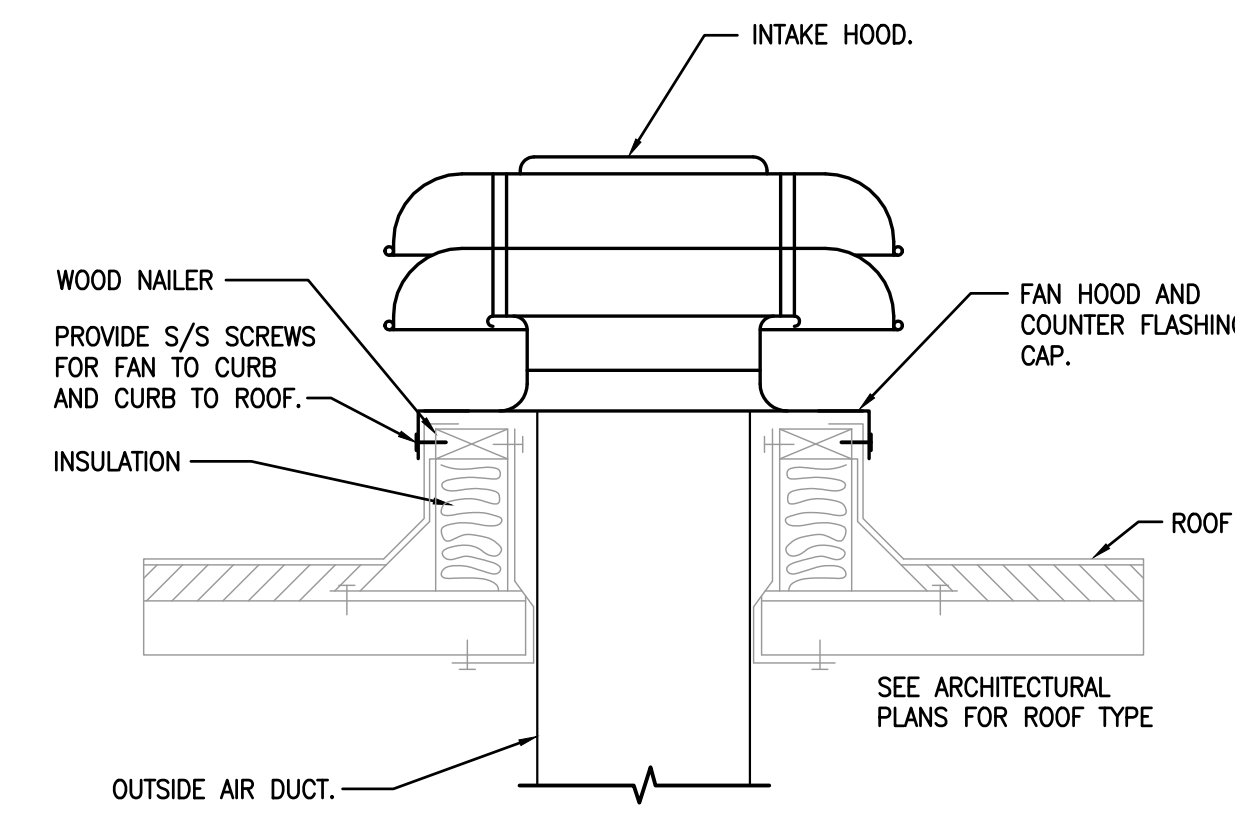
Drawn: MRS/SMB
Checked: BLS/AJB
Approved: BLS/AJB
Date: 04/15/2022
Project#: 5722

DETAILS MECHANICAL

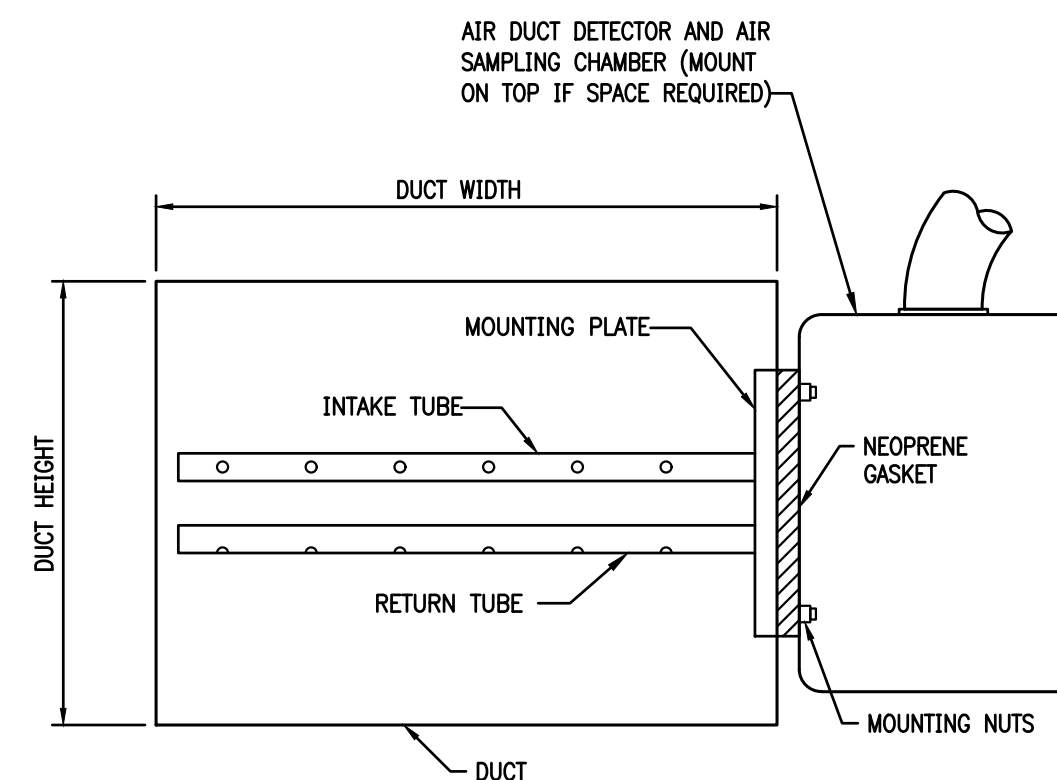
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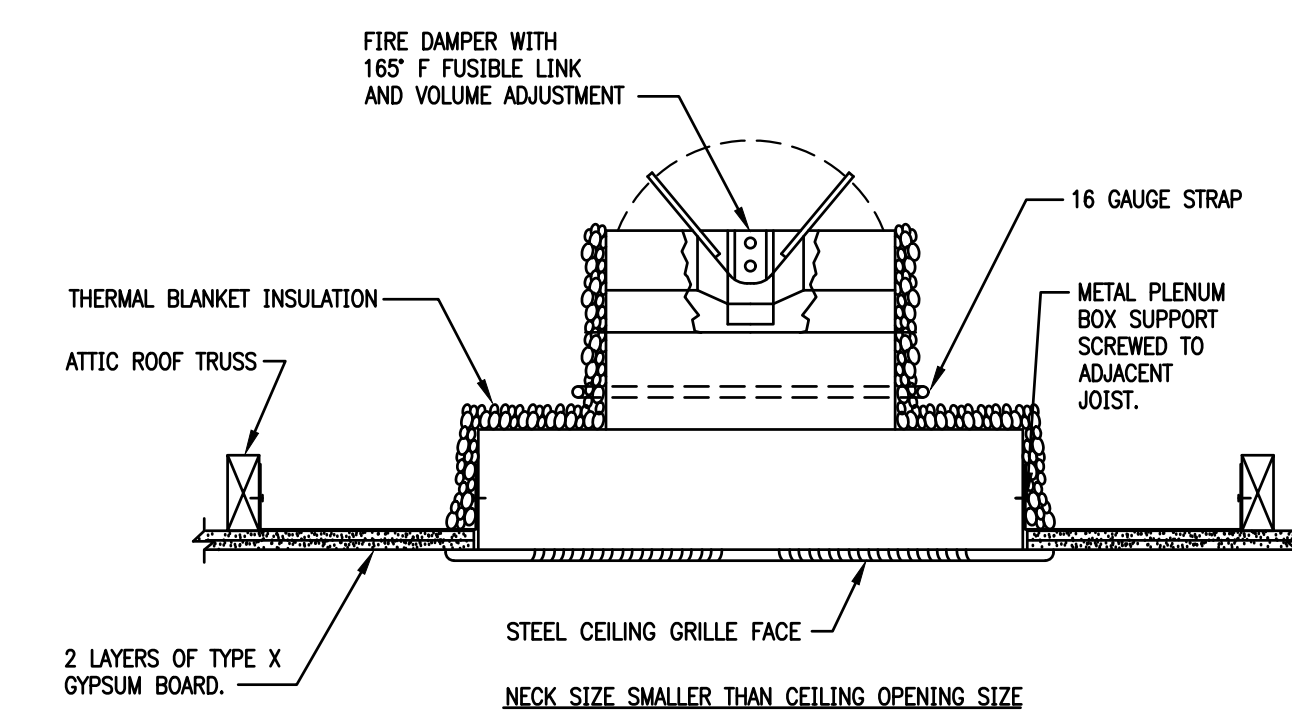
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NTS
SIDEWALL LOUVER DETAIL



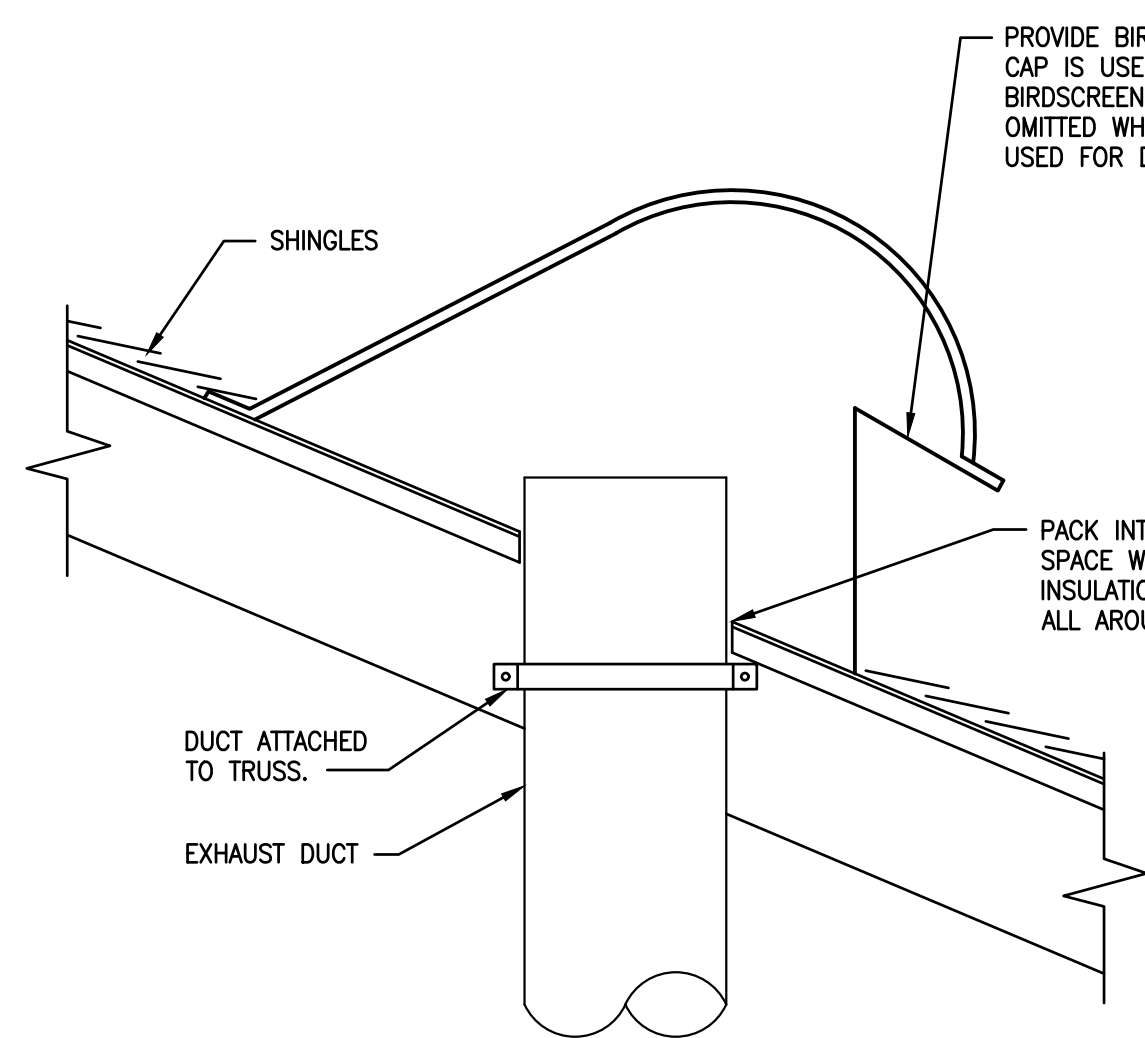
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NTS
OUTSIDE AIR INTAKE DETAIL



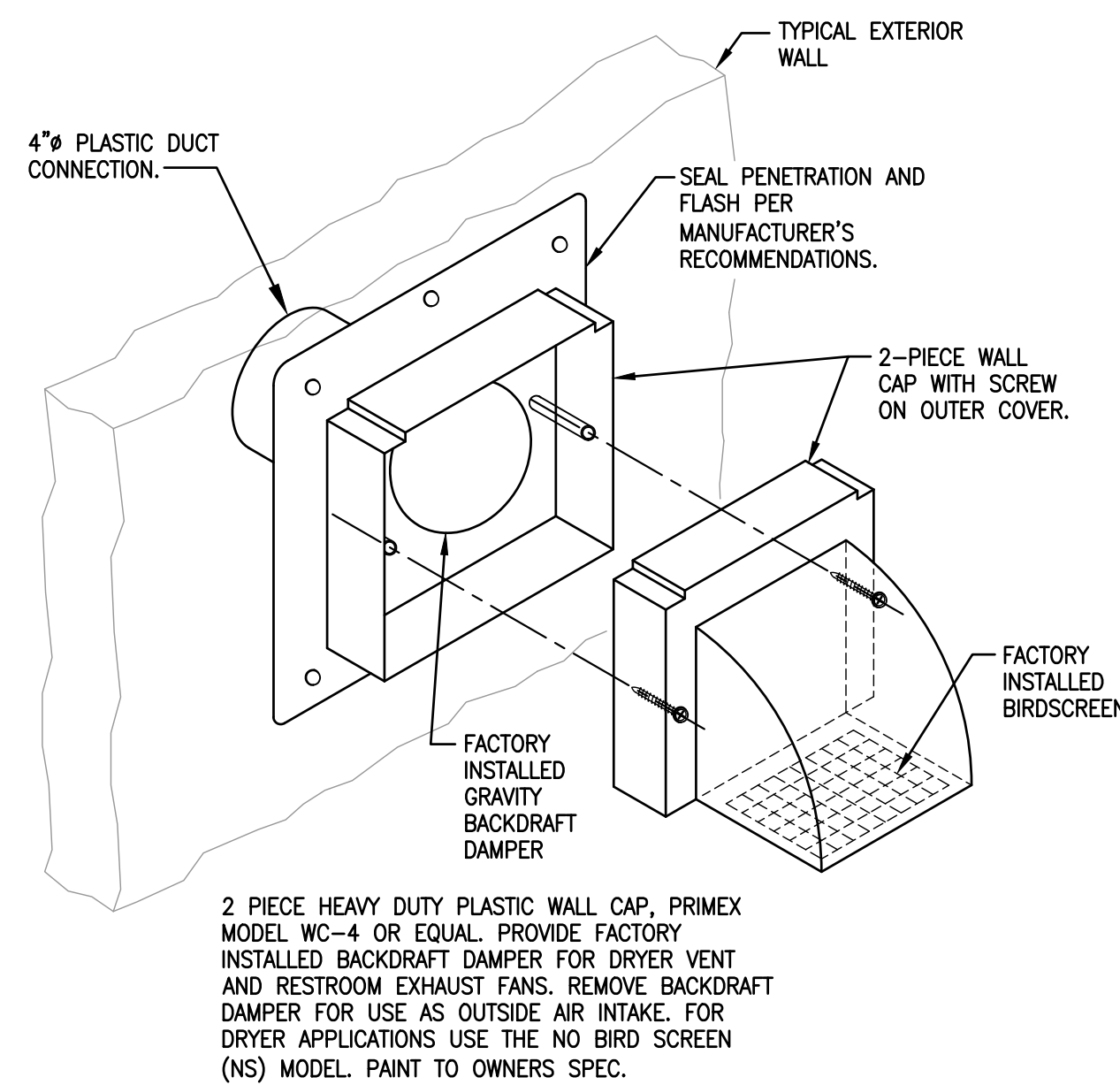
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NTS
SMOKE DETECTOR DETAIL



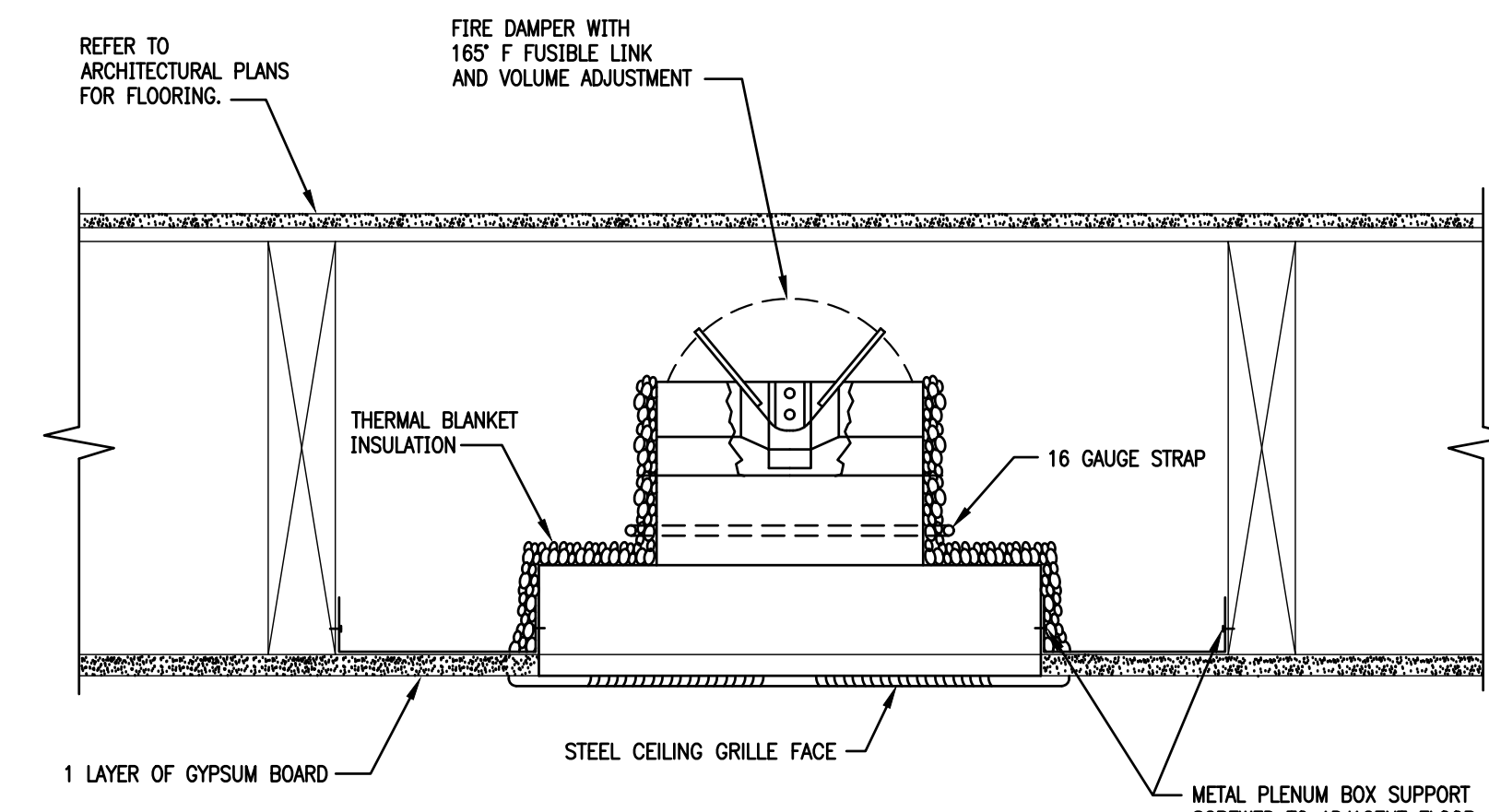
7
NTS
**RADIATION DAMPER DETAIL
(ATTIC SPACE INSTALLATION)**
POTTORFF CFD-521-BT / PS22 ASSEMBLY



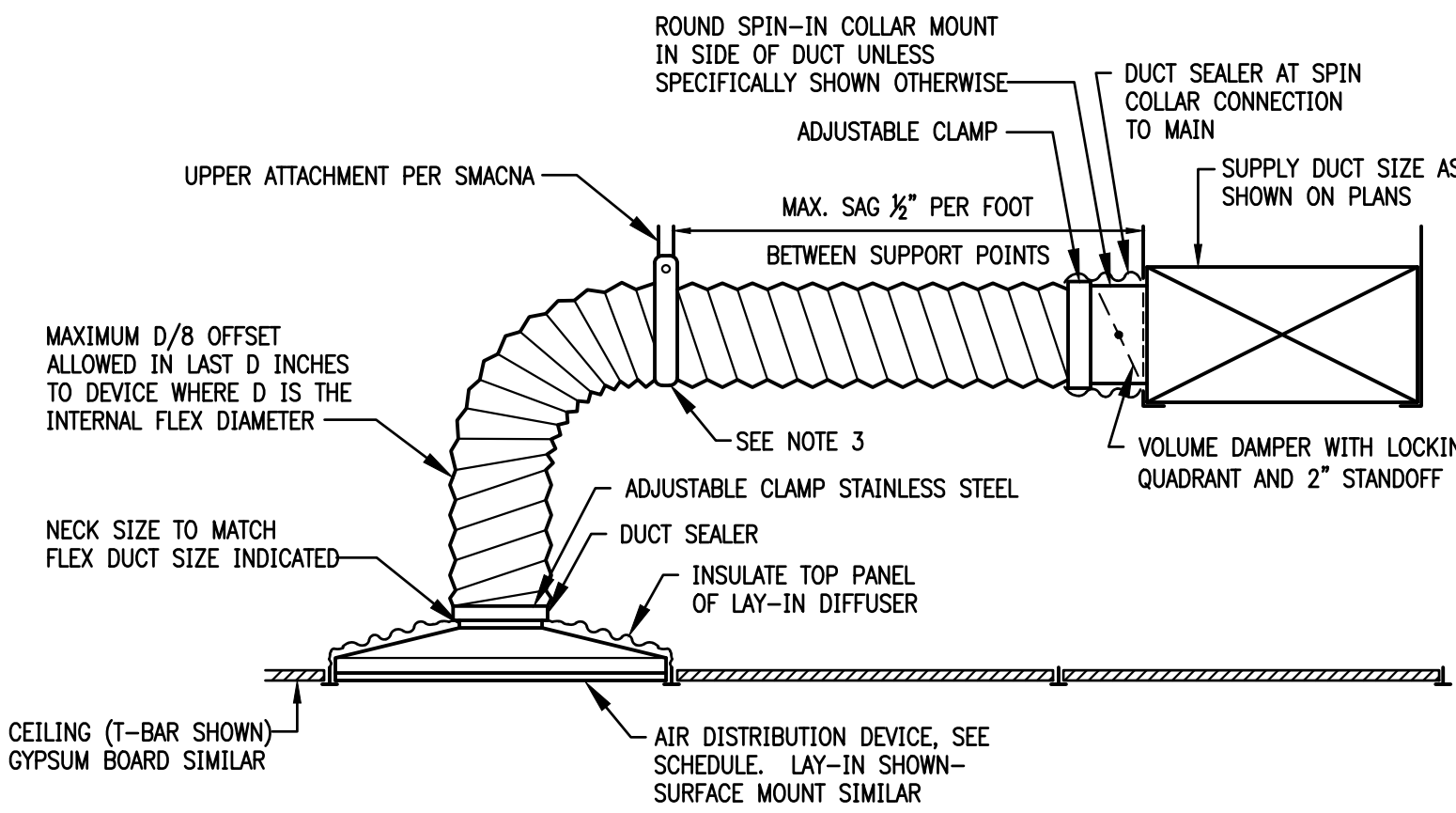
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NTS
ROOF CAP DETAIL



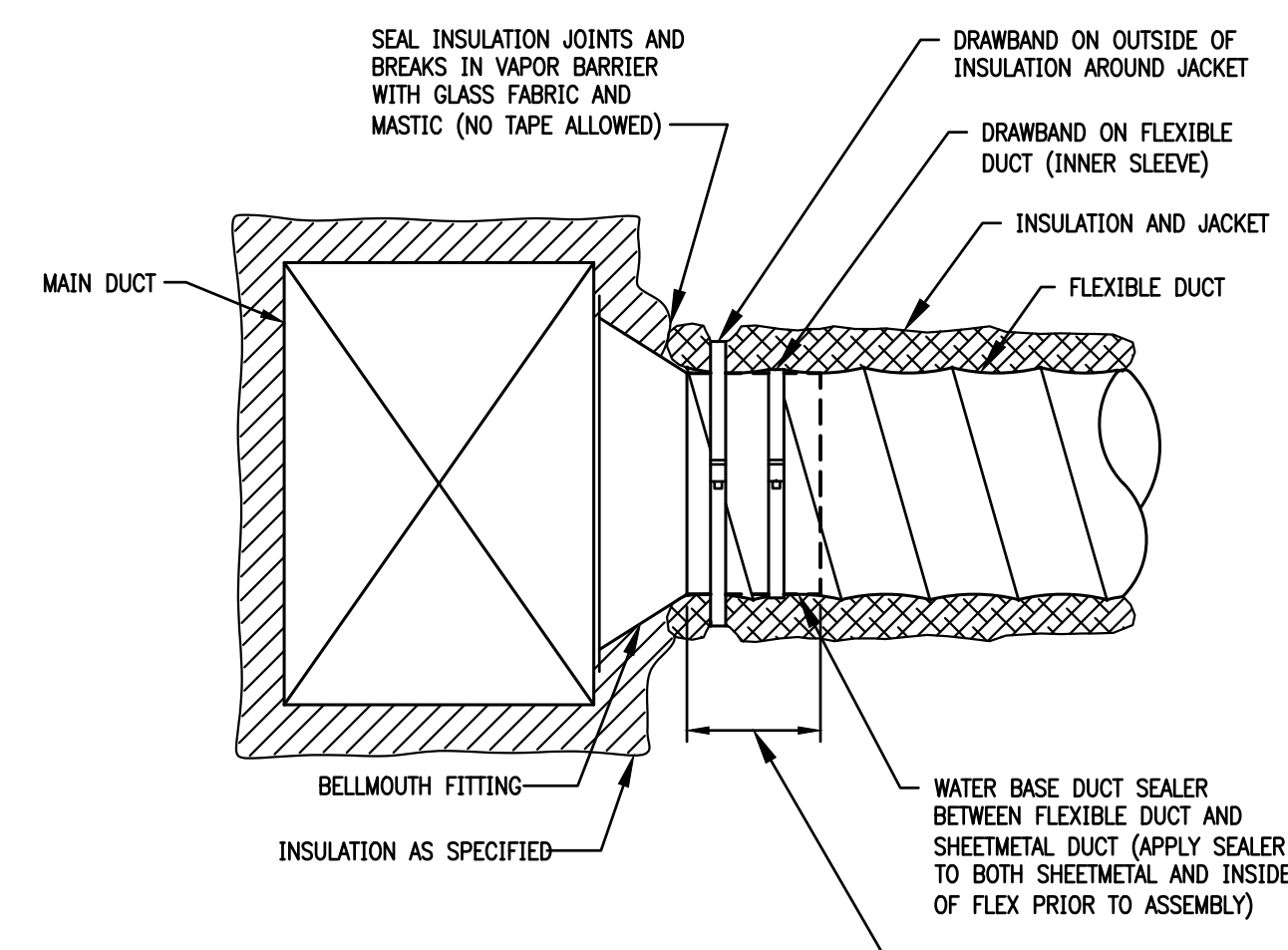
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NTS
TYPICAL WALL JACK DETAIL



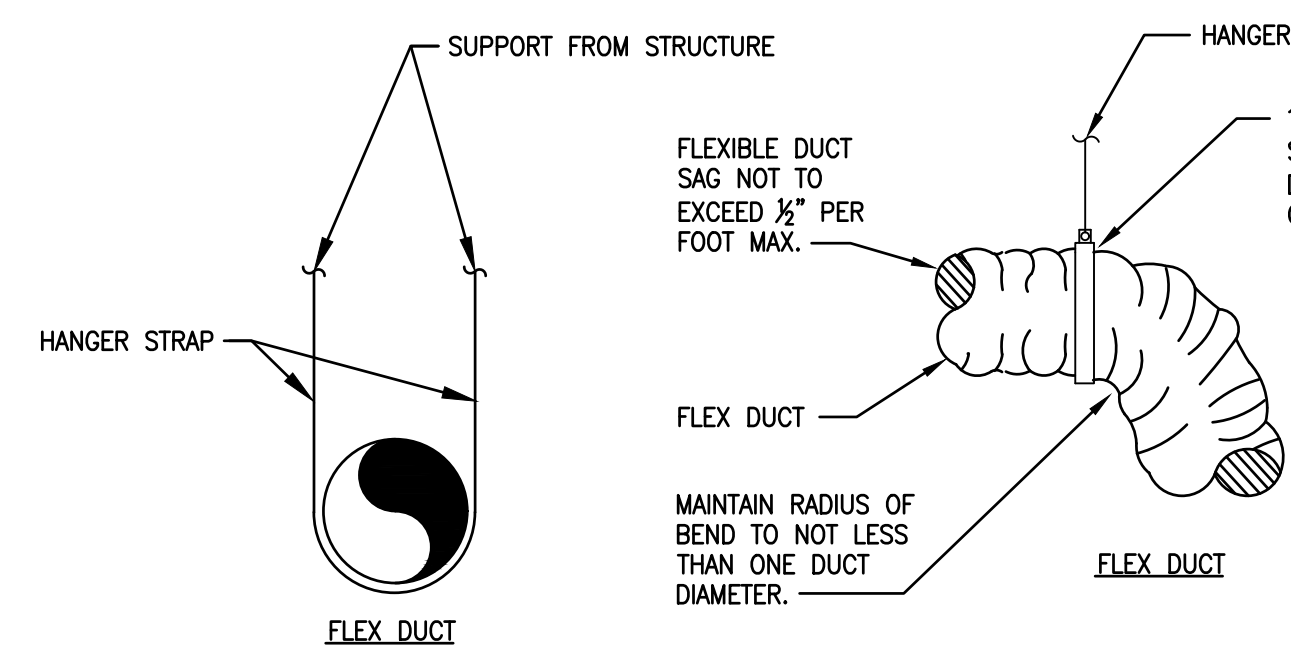
4
NTS
**RADIATION DAMPER DETAIL
(FLOOR JOIST INSTALLATION)**
POTTORFF CFD-521-IP / LS21 ASSEMBLY



3
NTS
FLEXIBLE DUCT DETAIL



2
NTS
FLEXIBLE DUCT CONNECTION DETAIL



1
NTS
FLEX DUCT HANGER DETAIL

ISSUE HISTORY

No.	Date	Description
1	04/15/22	Permit Submission

REVISION HISTORY

No.	Date	Description
-----	------	-------------



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JLC 22.0023.00

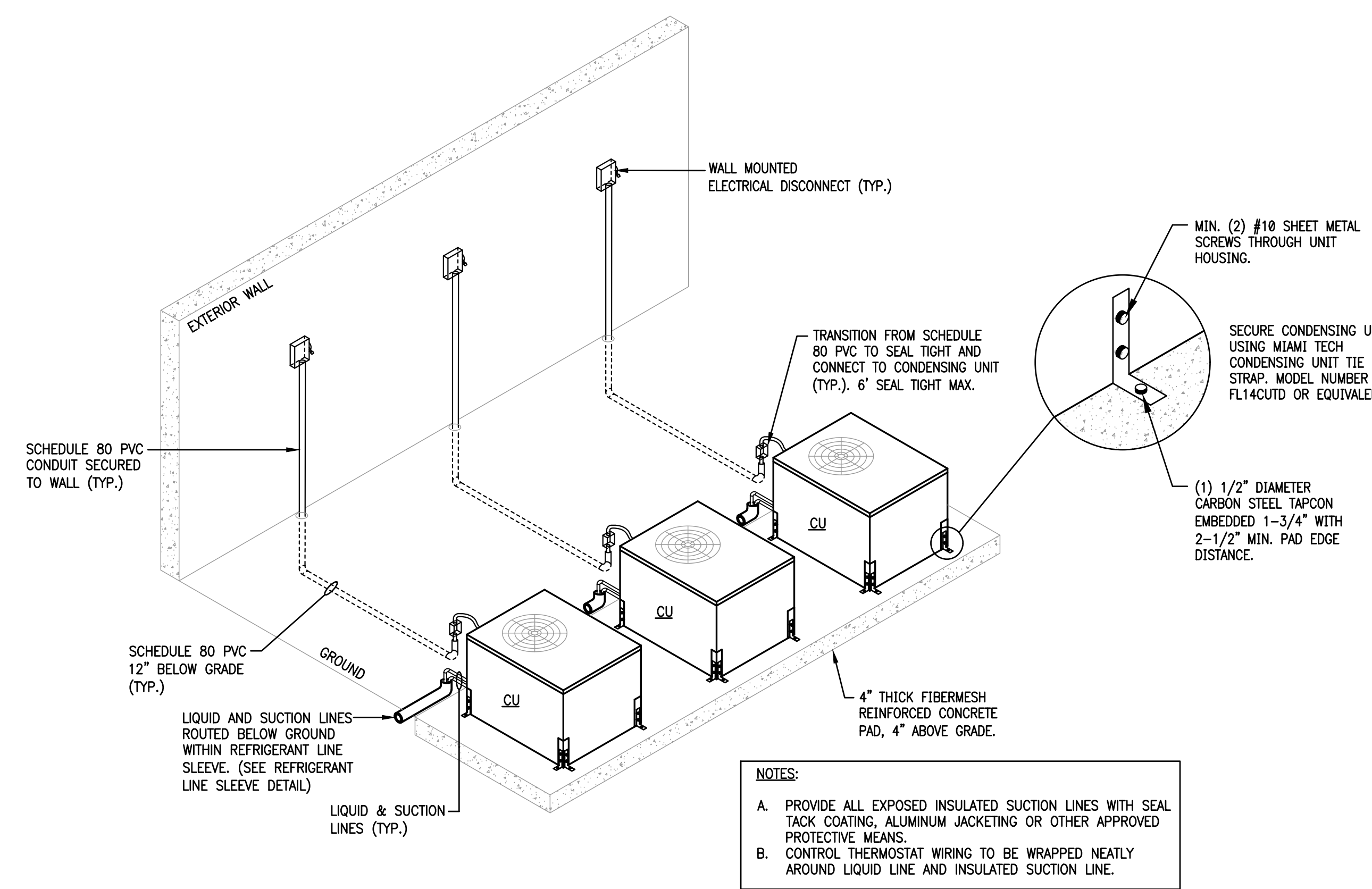


THE MADISON
HUNTSVILLE, AL

**DETAILS
MECHANICAL**

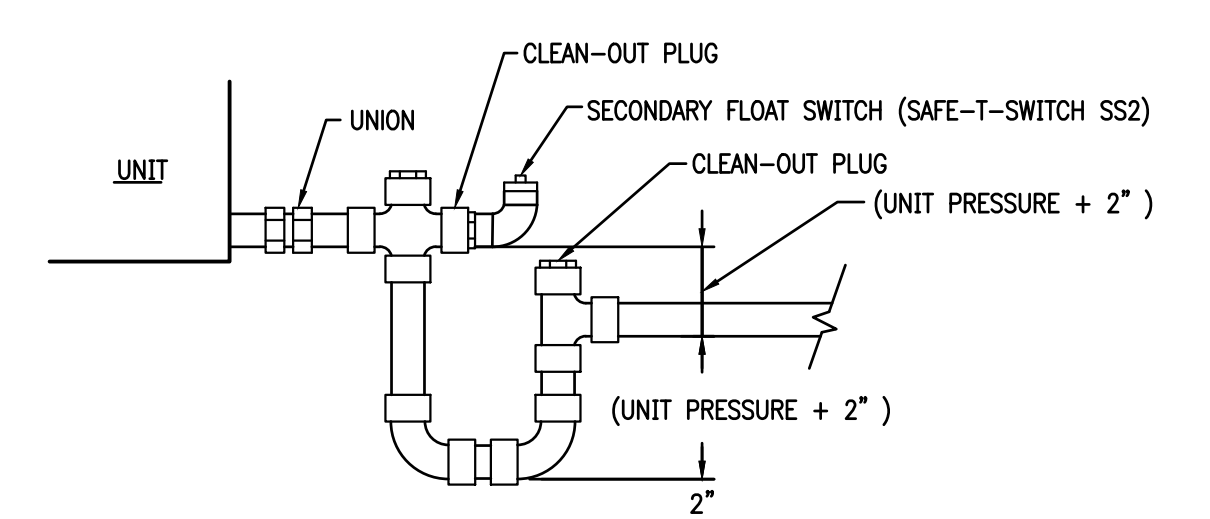
M6.02

Drawn:	MRS/MB
Checked:	BLS/AB
Approved:	BLS/AB
Date:	04/15/2022
Project #:	5722



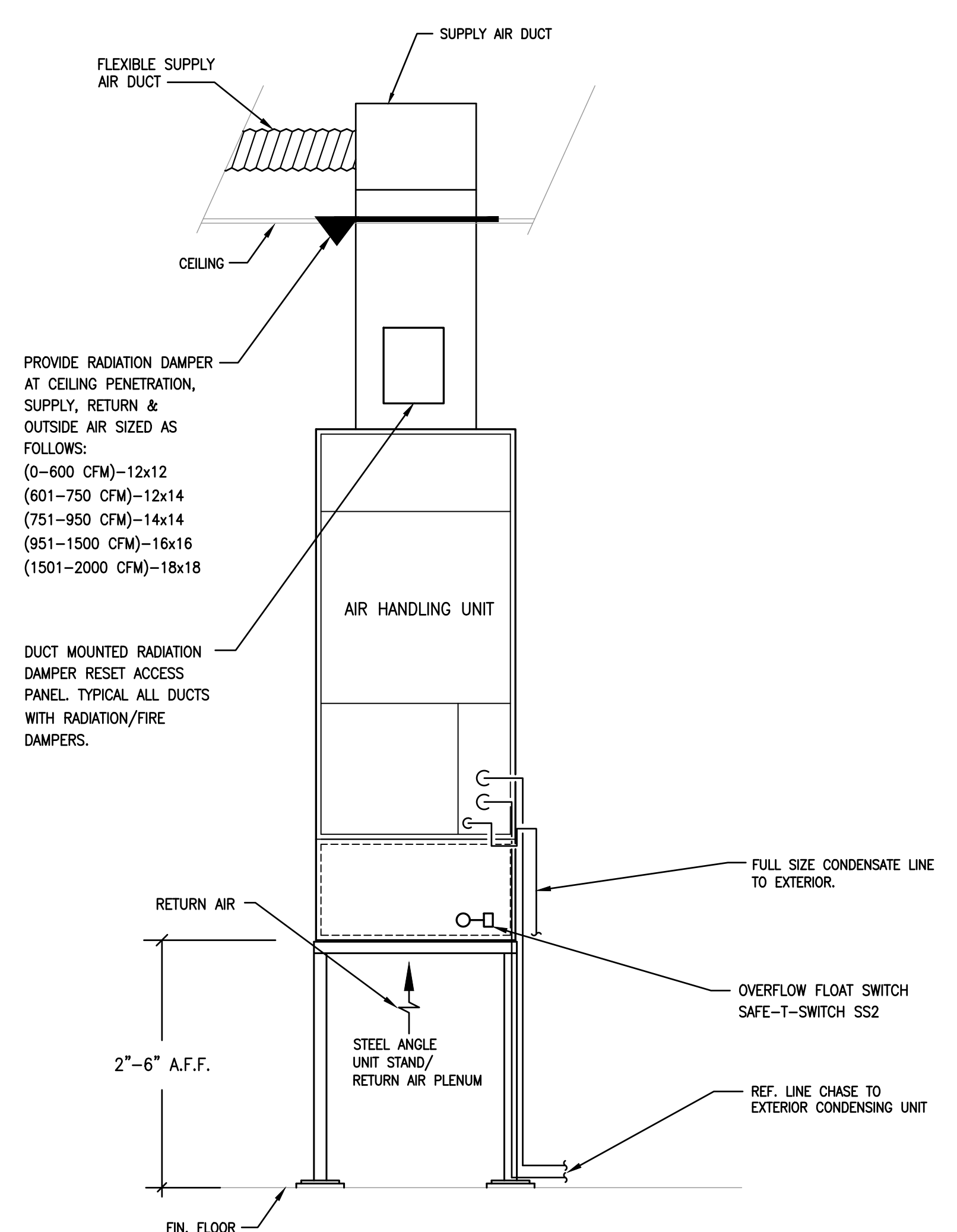
- NOTES:**
- A. PROVIDE ALL EXPOSED INSULATED SUCTION LINES WITH SEAL TACK COATING, ALUMINUM JACKETING OR OTHER APPROVED PROTECTIVE MEANS.
 - B. CONTROL THERMOSTAT WIRING TO BE WRAPPED NEATLY AROUND LIQUID LINE AND INSULATED SUCTION LINE.

6 GROUND MOUNTED CONDENSING UNIT PIPING DETAIL
(REFRIGERANT & ELECTRICAL BELOW GRADE)

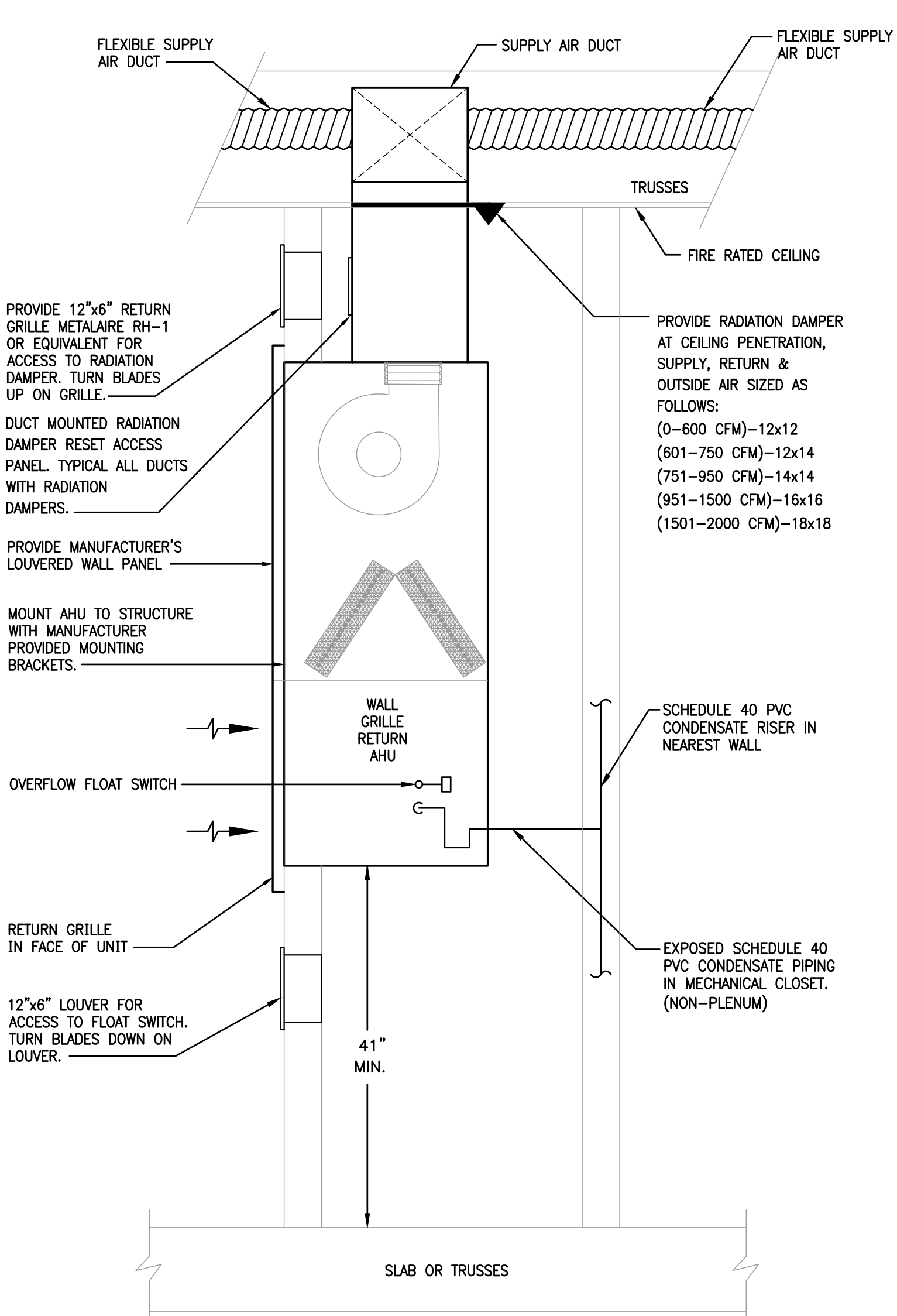


- NOTES:**
1. CONDENSATE DRAIN SHALL BE PIPED FULL SIZE OF UNIT CONNECTION.
 2. CONDENSATE PANS SHALL BE INSTALLED WITH ADEQUATE PITCH TO ENSURE POSITIVE DRAINAGE OF ACCUMULATED CONDENSATE.
 3. TRAP CONDENSATE AND DISCHARGE PER PLAN.

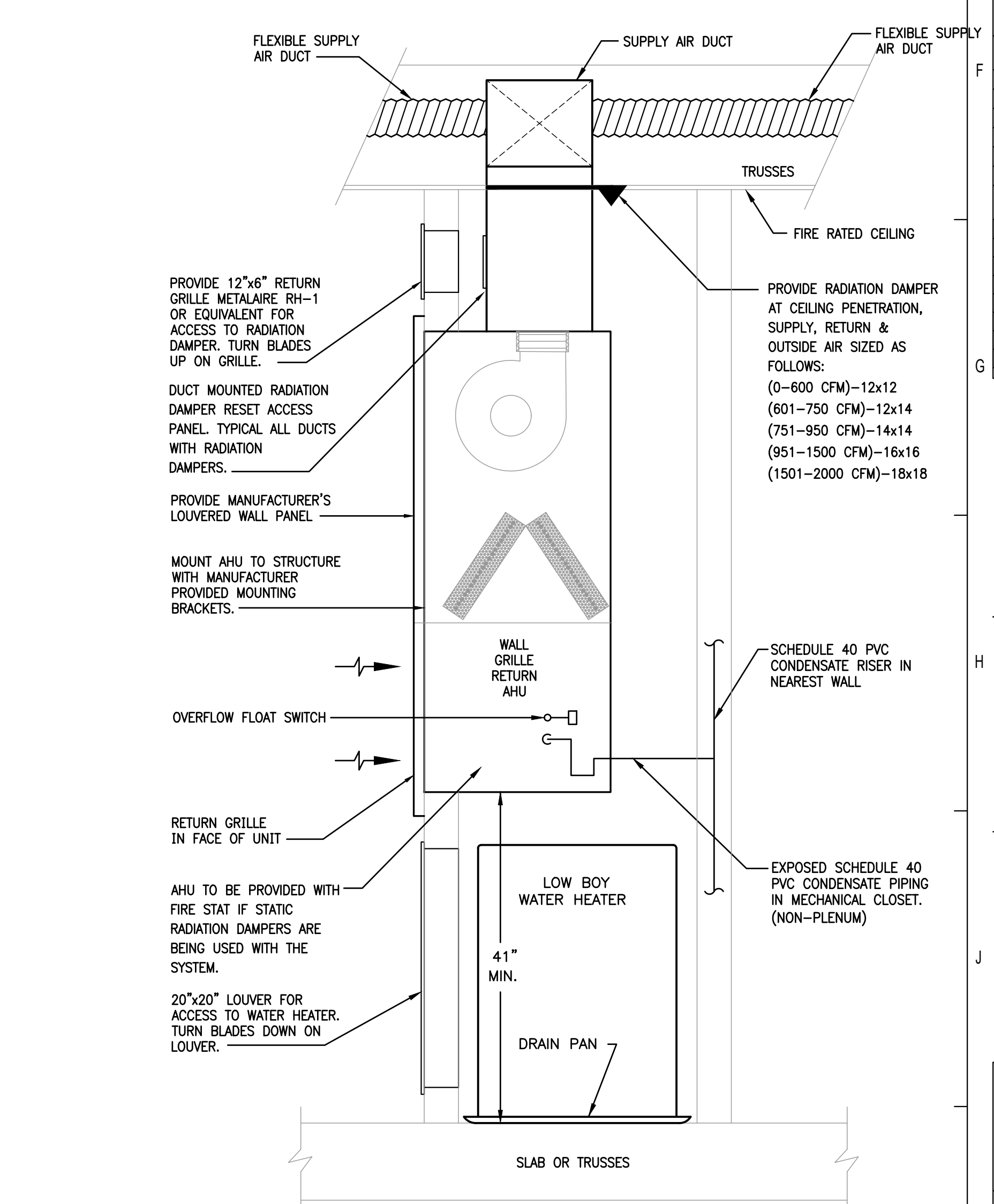
5 CONDENSATE DRAIN DETAIL



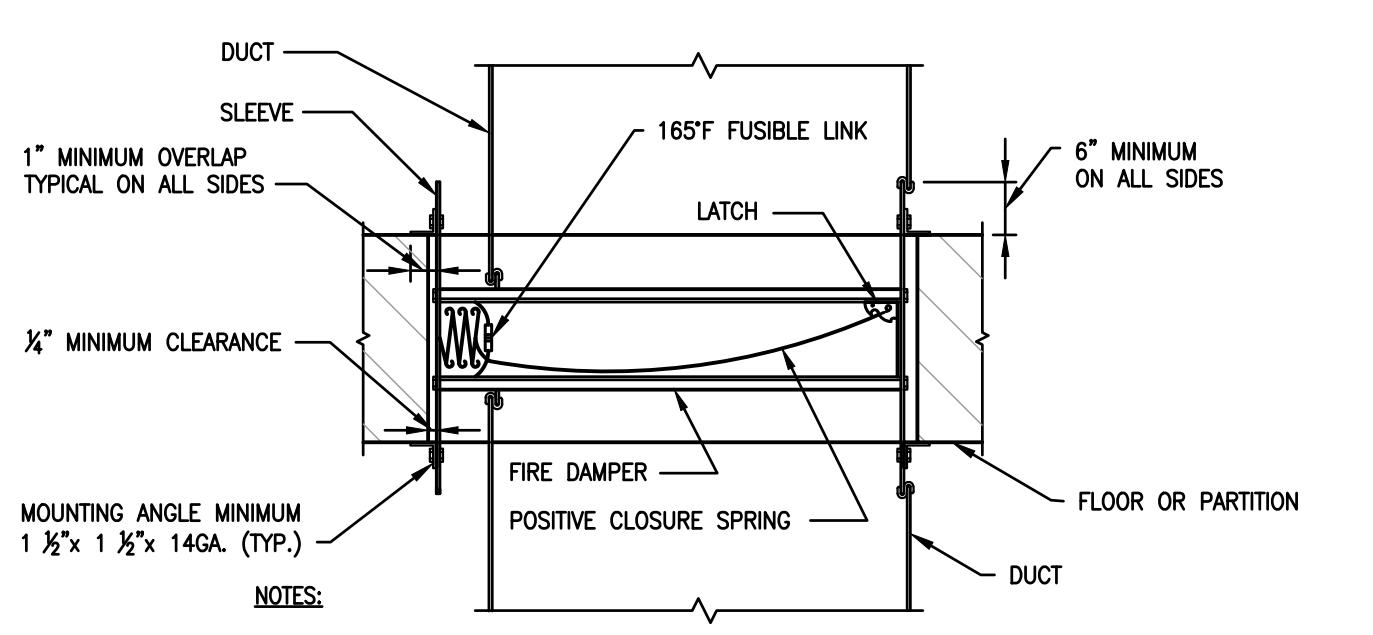
3 VERTICAL AHU DETAIL
(UNIT 3C)



2 THRU WALL MOUNTED AHU DETAIL



1 CLOSET MOUNTED AHU DETAIL
UNITS



- NOTES:**
1. DAMPERS SHALL BE CONSTRUCTED, TESTED AND LABELLED IN ACCORDANCE WITH UNDERWRITERS LABORATORIES SAFETY STANDARD 555 FOR DYNAMIC SYSTEMS AND SHALL BE PROVIDED WITH CLOSURE SPRINGS.
 2. INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
 3. SECURE MOUNTING ANGLES TO SLEEVE AT A MAXIMUM 6" ON CENTER.
 4. CLEARANCE BETWEEN FIRE DAMPER SLEEVE AND OPENING SHALL BE 1/4" PER FOOT OF HEIGHT (OR WIDTH) UNLESS OTHERWISE STATED IN THE LISTING OF THE ASSEMBLY.
 5. PROVIDE ACCESS PANEL IN DUCT AT A POINT ADJACENT TO FUSIBLE LINKAGE.

4 FIRE DAMPER DETAIL

ISSUE HISTORY		
No.	Date	Description
1	04/15/22	Permit Submission

REVISION HISTORY		
No.	Date	Description

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 CA NO. 4050 - 1

JLC 22.0023.00

THE MADISON
 HUNTSVILLE, AL
 Date: 04/15/2022
 Project#: 5722

DETAILS MECHANICAL
M6.03

System No. F-C-8014
F Rating — 1 Hr
T Rating — 0 Hr

SECTION A-A

1. Floor — Ceiling Assembly — The 1 hr fire-rated wood joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in the individual L500 Series Floor-Ceiling Designs in the UL Fire Resistance Directory, as summarized below:
 A. Floor System — Lumber or plywood subfloor with finish floor of lumber, plywood or Floor Topping Mixture* as specified in individual Floor-Ceiling Design. Max diam of floor opening is 3 in.
 B. Joists — Nom 10 in. deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or Structural Wood Members* with bridging as required and with ends firestopped.
 C. Gypsum Board* — Nom 5/8 in. thick as specified in the individual Floor-Ceiling Design. Max diam of openings is 3 in.
 2. Chase Wall — (Optional) — The through penetrant (Item 3) may be routed through a 1 hr fire-rated single, double or staggered wood stud/gypsum wallboard chase wall shall be constructed of the materials and in the manner specified in the individual U300 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
 A. Studs — Nom 2 by 6 in. or double nom 2 by 4 in. lumber studs.
 B. Sole Plate — Nom 2 by 6 in. or parallel 2 by 4 in. lumber plates, tightly butted.
 C. Top Plate — The double top plate shall consist of two nom 2 by 6 in. or two sets of parallel 2 by 4 in. lumber plates, tightly butted. Max diam of openings is 3 in.
 D. Gypsum Board* — Thickness, type, number of layers and fasteners shall be as specified in the individual Wall and Partition Design.

FC 8014

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System No. F-C-7013

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 1 Hr	F Rating — 1 Hr
T Rating — 0 Hr	FT Rating — 0 Hr
	FH Rating — 1 Hr
	FTH Rating — 0 Hr

SECTION A-A

1. Floor-Ceiling Assembly — The 1 hr fire-rated solid or trussed lumber joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in the individual L500 Series Floor-Ceiling Designs in the UL Fire Resistance Directory. The general construction features of the floor-ceiling assembly are summarized below:
 A. Flooring System — Lumber or plywood subfloor with finish floor of lumber, plywood or Floor Topping Mixture* as specified in the individual Floor-Ceiling Design. Max diam of opening shall be 5-1/4 in. (133 mm).
 B. Wood Joist* — Nom 10 in. (254 mm) deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or Structural Wood Members* with bridging as required and with ends firestopped.
 C. Gypsum Board* — Nom 4 ft (1,2 m) wide by 5/8 in. (16 mm) thick as specified in the individual Floor-Ceiling Design. Max diam of opening shall be 5-1/4 in. (133 mm).
 1.1 Chase Wall — (Not shown, Optional) The through penetrants (Item 2) may be routed through a 1 hr fire-rated single, double or staggered wood stud/gypsum wallboard chase wall having a fire rating consistent with that of the floor-ceiling assembly. The chase wall shall be constructed of the materials and in the manner specified in the individual U300 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
 A. Studs — Nom 2 by 6 in. (51 by 152 mm) lumber or double nom 2 by 4 in. (51 by 102 mm) lumber studs.
 B. Sole Plate — Nom 2 by 6 in. (51 by 152 mm) lumber or parallel 2 by 4 in. (51 by 102 mm) lumber plates, tightly butted. Max diam of opening shall be 5-1/4 in.
 C. Top Plate — The double top plate shall consist of two nom 2 by 6 in. (51 by 152 mm) lumber plates or two sets of nom 2 by 4 in. (51 by 102 mm) lumber plates tightly butted. Max diam of opening is 5-1/4 in. (133 mm).
 D. Gypsum Board* — Thickness, type, number of layers and fasteners shall be as specified in Individual Wall and Partition Design.

FC 7013

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System No. W-L-7017

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 1 Hr	F Rating — 1 Hr
T Rating — 0 Hr	FT Rating — 0 Hr
	FH Rating — 1 Hr
	FTH Rating — 0 Hr

SECTION A-A

1. Wall Assembly — The fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
 A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC.
 B. Gypsum Board* — One layer of nom 5/8 in. (16 mm) thick gypsum board, as specified in the individual Wall and Partition Design. Max diam of opening is 8-5/8 in. (219 mm).
 2. Metallic Sleeve — Nom 8 in. (203 mm) diam (or smaller) Schedule 40 (or heavier) steel sleeve cast into wall assembly with joint compound and installed flush with wall surfaces.
 3. Air Duct — Nom 6 in. (152 mm) diam (or smaller) prefabricated No. 28 MSG galv sheet metal duct. A min 1/2 in. (13 mm) to max 1-1/2 in. (38 mm) annular space is required within the firestop system. Duct to be rigidly supported on both sides of wall assembly.
 4. Forming Material* — Foamed plastic forming material foamed into opening as a permanent form. Forming material to be recessed from both surfaces of wall as required to accommodate the required thickness of fill material.
 HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CF812 or CF-AS CJP Foam Sealant
 5. Fill, Void or Cavity Material* — Min 5/8 in. (16 mm) thickness of fill material applied within annulus, flush with both surfaces of wall.
 HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant

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

WL 7017

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System No. F-C-8014
F Rating — 1 Hr
T Rating — 0 Hr

3. Through-Penetrants — Pipes, conduits, tubing and cables to be bundled and centered in the opening. The space between penetrants and the periphery of the opening shall be min 1/4 in. to max 3/4 in. Penetrants to be rigidly supported on both sides of the floor-ceiling assembly.
 A. Metallic Pipes — A max of two metallic pipes, conduits or tubing, (one 3/4 in. diam and one 1/2 in. diam) to be installed within the firestop system. The following types and sizes of metallic pipes, conduits or tubing may be used:
 A1. Steel Pipe — Nom 3/4 in. diam (or smaller) Schedule 5 (or heavier) steel pipe.
 A2. Conduit — Nom 3/4 in. diam (or smaller) steel electrical metallic tubing or steel conduit.
 A3. Copper Tubing — Nom 3/4 in. diam (or smaller) Type L (or heavier) copper tubing.
 A4. Copper Pipe — Nom 3/4 in. diam (or smaller) Regular (or heavier) copper pipe.
 B. Nonmetallic Pipes — A max of one nonmetallic pipe to be installed within the firestop system. The following types and sizes of nonmetallic pipes may be used:
 B1. Polyvinyl Chloride (PVC) Pipe — Nom 1/2 in. diam (or smaller) Schedule 40 solid core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
 B2. Chlorinated Polyvinyl Chloride (CPVC) Pipe — Nom 1/2 in. diam (or smaller) SDR17 CPVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
 C. Cables — A max of two 4/C No. 18 AWG (or smaller) thermostat cables with PVC insulation and PVC/nylon jacketing material.
 D. Tube Insulation — Plastic+ — Nom 1/2 in. thick acrylonitrile butadiene/polyvinyl chloride (AB/PVC) flexible foam furnished in the form of tubing. Tube insulation to be installed on a max of one metallic pipe or tubing.
 See Plastics+ (QMFZ2) category in the Plastics Recognized Component Directory for names of manufacturers. Any Recognized Component tube insulation material meeting the above specifications and having a UL 94 Flammability Classification of 94-5VA may be used.
 4. Fill, Void or Cavity Material* — Sealant — Min 3/4 in. thickness of fill material applied within the annulus, flush with top surface of floor or sole plate. Min 5/8 in. thickness of fill material applied within the annulus, flush with the bottom surface of the ceiling or lower top plate.
 HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS — ONE Sealant

*Bearing the UL Classification Marking
 +Bearing the UL Recognized Component Mark

FC 8014

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System No. F-C-7013

2. Steel Duct — Nom 4 in. (102 mm) diam (or smaller) No. 28 gauge (or heavier) steel duct to be installed either concentrically or eccentrically within the firestop system. The annular space between duct and periphery of opening shall be min of 1/4 in. (6 mm) to max 3/4 in. (19 mm). Steel duct to be rigidly supported on both sides of floor-ceiling assembly.
 3. Fill, Void or Cavity Material* — Sealant — Min 3/4 in. (19 mm) thickness of sealant applied within the annular space, flush with top surface of floor or sole plate. Min 5/8 in. (16 mm) thickness of sealant applied within annular space, flush with bottom surface of gypsum board or lower top plate.
 HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant

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

FC 7013

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U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

ISSUE HISTORY

No.	Date	Description
1	04/15/22	Permit Submission

REVISION HISTORY

No.	Date	Description

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JLC 22.0023.00

THE MADISON	Drawn: MRSMB
HUNTSVILLE, AL	Checked: BLSA/B
	Approved: BLSA/B
	Date: 04/15/2022
	Project#: 5722

DETAILS MECHANICAL

M6.04

System No. W-L-7042

ANSI/UL1479 (ASTM E814)		CAN/ULC S115	
F Ratings - 1 and 2 Hr (See Items 1 and 3)		F Ratings - 1 and 2 Hr (See Items 1 and 3)	
T Rating - 0 Hr		FT Rating - 0 Hr	
		FH Ratings - 1 and 2 Hr (See Items 1 and 3)	
		FTH Rating - 0 Hr	

SECTION A-A

HILTI
Hilti Firestop Systems

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Page: 1 of 2

System No. W-L-7040

ANSI/UL1479 (ASTM E814)		CAN/ULC S115	
F Ratings - 1 and 2 Hr (See Items 1 and 3)		F Ratings - 1 and 2 Hr (See Items 1 and 3)	
T Rating - 0 Hr		FT Rating - 0 Hr	
L Rating at Ambient - Less Than 1 CFM/sq ft		FH Ratings - 1 and 2 Hr (See Items 1 and 3)	
L Rating at 400°F - Less Than 1 CFM/sq ft		FTH Rating - 0 Hr	
		L Rating at Ambient - Less Than 1 CFM/sq ft	
		L Rating at 400°F - Less Than 1 CFM/sq ft	

SECTION A-A

HILTI
Hilti Firestop Systems

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Page: 1 of 2

System No. W-L-7153

ANSI/UL1479 (ASTM E814)		CAN/ULC S115	
F Ratings - 1 and 2 Hr (See Item 1)		F Ratings - 1 and 2 Hr (See Item 1)	
T Rating - 1/2 Hr		FT Rating - 1/2 Hr	
		FH Ratings - 1 and 2 Hr (See Item 1)	
		FTH Rating - 1/2 Hr	

SECTION A-A

HILTI
Hilti Firestop Systems

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Page: 1 of 2

System No. W-L-7042

1. Wall Assembly — The 1 or 2 hr fire rated wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced 24 in. (610 mm) OC. Additional framing members shall be used to completely frame the opening for all ducts greater than 20 in. (502 mm) diam.

B. Gypsum Board* — For 1 hr assembly, one layer of min 5/8 in. (16 mm) thick wallboard as required in the individual Wall and Partition Design. For 2 hr assembly, two layers of min 5/8 in. (16 mm) thick wallboard as required in the individual Wall and Partition Design. Max diam of opening is 14-1/2 in. (368 mm) for wood stud walls and 25-1/2 in. (648 mm) for steel stud walls.

The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.

2. Through Penetrant — Galv steel duct to be installed concentrically or eccentrically within the firestop system. The annular space between the duct and periphery of opening shall be 0 in. (0 mm, point contact) and max 1-1/2 in. (64 mm) Duct to be rigidly supported on both sides of wall assembly.

A. Spiral Wound HVAC Duct — Nom 24 in. (610 mm) diam (or smaller) No. 28 MSG (or heavier) galv steel spiral wound duct.

B. Sheet Metal Duct — Nom 12 in. (305 mm) diam (or smaller) No. 28 MSG (or heavier) galv steel sheet duct.

3. Fill, Void or Cavity Material* — Sealant — Min 5/8 in. (16 mm) and 1-1/4 in. (32 mm) thickness of fill material applied within annulus, flush with both surfaces of wall assembly for 1 and 2 hr F Ratings, respectively. When FS-ONE Max is used, min 5/8 in. (16mm) thickness for both 1 and 2 hr F Ratings. At the point contact location between duct and wallboard, a min 1/2 in. (13 mm) diam bead of sealant shall be applied at the wallboard/duct interface on both surfaces of wall assembly.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP601S Elastomeric Firestop Sealant, FS-ONE Sealant, FS-ONE MAX Intumescent Sealant or CP606 Flexible Firestop Sealant

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

HILTI
Hilti Firestop Systems

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Page: 2 of 2

System No. W-L-7040

3. Firestop System — The firestop system shall consist of the following:

A. Fill, Void or Cavity Material* — Sealant — Min 5/8 in. (16 mm) thickness of fill material applied within annulus flush with both surfaces of wall. At point contact location, a min 1/2 in. (13 mm) diam bead of fill material shall be applied to the wall/duct interface on both surfaces of wall. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant, FS-ONE MAX Intumescent Sealant, CP601S Elastomeric Firestop Sealant or CP606 Flexible Sealant.

B. Steel Retaining Angle — No. 18 MSG (0.048 in.) galv steel angles cut to fit contour of duct with a 2 in. overlap on the duct and a min 1 in. overlap on the gypsum board assembly on both surfaces of wall. 2 in. leg of angle secured to duct with min No. 8 by 3/4 in. long sheet metal screws, spaced a max of 6 in. OC. When bead of fill material is used at joint contact locations, angles shall be installed prior to full material curing.

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

HILTI
Hilti Firestop Systems

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Page: 2 of 2

System No. W-L-7153

2. Steel Duct — Galv steel duct to be installed concentrically or eccentrically within the firestop system. Duct to be rigidly supported on both sides of wall assembly.

A. Spiral Wound HVAC Duct — Nom 20 in. (508 mm) diam (or smaller) No. 24 MSG (or heavier) galv steel spiral wound duct.

B. Sheet Metal Duct — Nom 12 in. (305 mm) diam (or smaller) No. 28 MSG (or heavier) galv steel sheet duct.

3. Duct Insulation* — Nom 1-1/2 in. or 2 in. (38 or 51 mm) thick glass fiber batt or blanket (min 3/4 pcf or 56 kg/m³) jacketed on the outside with a foil-scrim-kraft facing. Longitudinal and transverse joints sealed with aluminum foil tape. During the installation of the fill material, the batt or blanket shall be compressed 50% such that the annular space within the firestop system shall be min 1/4 in. (6 mm) to max 1-1/2 in. (38 mm). See Batts and Blankets - (BKNV) category in the Building Materials Directory for names of manufacturers. Any batt or blanket meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index 50 or less may be used.

4. Fill, Void or Cavity Material* — Sealant — Min 5/8 in. (16 mm) thickness of fill material applied within annulus, flush with both surfaces of wall. If voids develop after the fill materials cures, the voids shall be sealed with additional fill material.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant

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

HILTI
Hilti Firestop Systems

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Page: 2 of 2

U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

ISSUE HISTORY

No.	Date	Description
1	04/15/22	Permit Submission

REVISION HISTORY

No.	Date	Description

FUGLEBERG KOCH
2555 Temple Trail, Winter Park, FL 32789 (407) 629-0595
www.fuglebergkoch.com AA26002103

CONSULTANT
Joseph, Lawrence & Co
Consulting Engineers
1180 HARWOOD AVE, SUITE 3000
ALTA MONTÉ SPRINGS, FLORIDA 32714
TEL. 321.972.4464
WWW.JLCENG.COM
CA NO. 4050 - E

JLC 22.0023.00

THE MADISON
HUNTSVILLE, AL

DETAILS MECHANICAL

M6.05

Drawn: MRS/MB
Checked: BLSA/B
Approved: BLSA/B
Date: 04/15/2022
Project #: 5722

System No. W-L-7059

ANSIUL1479 (ASTM E814)	CAN/ULC S115
F Ratings - 1 and 2 Hr (See Item 1)	F Ratings - 1 and 2 Hr (See Item 1)
T Rating - 1/2 and 3/4 Hr (See Item 1)	FT Rating - 1/2 and 3/4 Hr (See Item 1)
	FH Ratings - 1 and 2 Hr (See Item 1)
	FTH Rating - 1/2 and 3/4 Hr (See Item 1)

SECTION A-A

1. Wall Assembly — The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U400, V400 or W400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs — Wall framing shall consist of channel studs. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC. The opening in the wall to accommodate the steel duct (Item 2) shall be framed on all sides using lengths of studs installed between the vertical studs and attached to the studs at each end. The framed opening in the wall shall be a nom 6 in. (152 mm) wide and 12 in. (305 mm) higher than the width and height of the steel duct.

B. Wallboard, Gypsum* — 5/8 in. (16 mm) thick, 4 ft (1.22 mm) wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300, U400, V400 or W400 Series Design in the UL Fire Resistance Directory. Max area of opening is 395 sq. in. (0.25 m²) with max dimensions of 26-3/4 in. (679 mm) for steel studs. The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed. The hourly T, FT and FTH Ratings are 1/2 hr and 3/4 hr for 1 and 2 hr rated assemblies, respectively.

HILTI Firestop Systems Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. January 27, 2015 Page: 1 of 2

System No. W-L-7059

2. Steel Duct — Nom 24 in. by 12 in. (610 by 305 mm) (or smaller) No. 24 gauge (or heavier) steel duct to be installed eccentrically within the framed opening. The annular space shall be min 1 in. (25 mm) to max 1-3/4 in. (45 mm) Steel duct to be rigidly supported on both sides of wall assembly.

3. Batts and Blankets* — Max 1-1/2 in. (38 mm) thick glass fiber batt or blanket (min 3/4 pcf or 12 kg/m³) jacketed on the outside with a foil-scrim-kraft facing. Longitudinal and transverse joints sealed with aluminum foil tape. During the installation of the fill material, the batt or blanket shall be compressed 50% such that the annular space within the firestop system shall be min 1/4 in. (6 mm) to max 1 in. (25 mm). See Batts and Blankets - (BKNV) category in the Building Materials Directory for names of manufacturers. Any batt or blanket meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index 50 or less may be used.

4. Void or Cavity Material* - Sealant — Min 5/8 in. (16 or 32 mm) thickness of fill material applied within annulus, flush with both surfaces of wall for 1 or 2 hr walls, respectively. If voids develop after the fill material cures, the voids shall be sealed with additional fill material.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant

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

HILTI Firestop Systems Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. January 27, 2015 Page: 2 of 2

System No. W-L-7151

ANSIUL1479 (ASTM E814)	CAN/ULC S115
F Ratings - 1 and 2 Hr (See Item 1)	F Ratings - 1 and 2 Hr (See Item 1)
T Rating - 0, 1, and 2 Hr (See Item 4C)	FT Rating - 0, 1, and 2 Hr (See Item 4C)
	FH Ratings - 1 and 2 Hr (See Item 1)
	FTH Ratings - 0, 1, and 2 Hr (See Item 4C)

SECTION A-A

1. Wall Assembly — The fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the Fire Resistance Directory and shall include the following construction features:

A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm). Additional framing members shall be used to completely frame around opening.

B. Gypsum Board* — Nom 5/8 in. (16 mm) thick with square or tapered edges. The gypsum wallboard type, number of layers and sheet orientation shall be as specified in the individual Wall and Partition Design Number. Max area of opening is 210 sq in. (1355 cm²) with a max width of 14-1/2 in. (368 mm) for wood studs. Max area of opening is 2457 in² (1.58 m²) with the max length or width dimension of 63 in. (1600 mm) for steel studs. The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.

2. Steel Duct — Nom 36 in. by 60 in. (914 mm by 1524 mm or smaller) galv steel duct to be installed within the firestop system. The duct shall be constructed and reinforced in accordance with SMACNA construction standards. Duct to be rigidly supported on both sides of the wall assembly.

3. Batts and Blankets* — Max 2 in. (51 mm) thick min 3/4 pcf (12 kg/m³) glass fiber batt or blanket jacketed on the outside with a foil-scrim-kraft facing. Longitudinal and transverse joints sealed with aluminum foil tape. During the installation of the fill material, the batt or blanket shall be compressed minimum 50% such that the annular space within the firestop system shall be min 1/4 in. (6 mm) to a max 3-1/2 in. (89mm); refer to the table below.

See Batts and Blankets - (BKNV) category in the Building Materials Directory for names of manufacturers. Any batt or blanket meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index 50 or less may be used.

HILTI Firestop Systems Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. August 22, 2018 Page: 1 of 2

System No. W-L-7151

4. Firestop System — The firestop system shall consist of the following:

A. Packing Material — Min 3-1/2 in. (89 mm) thickness of min 4.0 pcf (64 kg/m³) mineral wool batt insulation firmly packed into the opening as a permanent form. Packing material to be recessed from both sides of the wall to accommodate the required thickness of fill material.

B. Fill, Void or Cavity Material* — Sealant — Min 5/8 in. (16 mm) thickness of fill material applied within annulus flush with both surfaces of the wall.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE MAX Intumescent Sealant

C. Steel Retaining Angle — No. 16 MSG (or heavier) galv steel angles. When duct dimension exceeds 48 in. (1219 mm), angles shall be No. 16 MSG (or heavier). Angles cut to fit contour of duct with a 2 in. (51 mm) overlap on the duct and a min 1 in. (25 mm) overlap on the gypsum board assembly on both surfaces of wall. 2 in. (51 mm) leg of angle secured to duct with min No. 8 by 3/4 in. (19 mm) long sheet metal screws, spaced a max of 6 in. (152 mm) OC. Angles are optional for ducts 30 in. (762 mm) by 24 in. (610 mm) and smaller. In addition, see table below for additional conditions and options regarding retaining angles.

Max Duct Dimension	Duct Thickness	Max Insulation Thickness (Item 3)	Annular Space	Packing Material (Item 4A) Required	Angle (Item 4C) Required	T-Rating Hr
**24 in. (610 mm)	24 ga or heavier	1-1/2 in. (38 mm)	1/4 in. min to 1 in. max (6 to 25 mm)	No	No	0
25 in. (635 mm) wide by 45 in. (1143 mm) high	24 ga or heavier	2 in. (51 mm)	1/4 in. min to 3-1/2 in. max (6 to 89 mm)	Yes	No	1 and 2 (Same as wall rating)

** Indicates that when max 1-1/2 in. (38 mm) thick insulation is used, steel angles are optional for those sides of the duct that do not exceed the dimension specified.

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

HILTI Firestop Systems Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. August 22, 2018 Page: 2 of 2

Classified by Underwriters Laboratories, Inc. to ANSIUL 1479 (ASTM E814) and CAN/ULC S115

System No. F-C-7060

ANSIUL1479 (ASTM E814)	CAN/ULC S115
F Rating - 1 Hr	F Rating - 1 Hr
T Ratings - 1 Hr	FT Ratings - 1 Hr
L Rating At Ambient - Less Than 1 CFM/sq ft	FH Rating - 1 Hr
	FTH Ratings - 1 Hr
	L Rating At Ambient - Less Than 1 CFM/sq ft

SECTION A-A

1. Floor - Ceiling Assembly - The 1 hr fire-rated wood joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in the individual L500 Designs in the UL Fire Resistance Directory, as summarized below:

A. **Flooring System** - Lumber or plywood subfloor with finish floor of lumber, plywood or Floor Topping Mixture* as specified in the individual Floor-Ceiling Design.

B. **Wood Joists** - Nom 10 in. (254 mm) deep (or deeper) Lumber, steel or combination Lumber and steel joists, trusses or Structural Wood Members* with bridging as required and with ends firestopped.

C. **Gypsum Board*** - Thickness, type, number of layers and fasteners as required in the individual Floor-Ceiling Design. Diam of opening is to be max 1-1/2 in. (38 mm) larger than diam of steel duct.

1A. **Chase Wall** - (Optional, Not Shown) - The through penetrant (Item 2) may be routed through a 1 hr fire rated single, double or staggered wood stud/gypsum board chase wall. Depth of chase wall stud cavity to be min 1/2 in. (13 mm) greater than diameter of opening cut in top plates to accommodate the through penetrant (Item 2). The chase wall shall be constructed of the materials and in the manner specified in the individual U300 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. **Studs** - Nom 2 by 4 in. (51 by 102 mm), 2 by 6 in. (51 by 152 mm) or double nom 2 by 4 in. (51 by 102 mm) Lumber studs.

B. **Sole Plate** - Nom 2 by 4 in. (51 by 102 mm), 2 by 6 in. (51 by 152 mm) or parallel 2 by 4 in. (51 by 102 mm) Lumber plates, tightly butted.

C. **Top Plate** - The double top plate shall consist of two nom 2 by 4 in. (51 by 102 mm), two nom 2 by 6 in. (51 by 152 mm) or two sets of parallel 2 by 4 in. (51 by 102 mm) Lumber plates, tightly butted. Diam of opening is to be max 1-1/2 in. (38 mm) larger than diam of steel duct. As an alternate, the opening may be square-cut with a max dimension 1-1/2 in. (38 mm) greater than the diam of the pipe. Plates may be discontinuous over opening, terminating at two opposing edges of opening. Max length of discontinuity is 7-1/2 in. (191 mm).

D. **Steel Plate** - When Lumber plates are discontinuous, nom 1-1/2 in. (38 mm) wide No. 20 gauge (or heavier) galv steel plates shall be installed to connect discontinuous lumber plates and to provide a form for the fill material. Steel plates sized to lap 2 in. (51 mm) onto each discontinuous lumber plate and secured to lumber plates with steel screws or nails.

E. **Gypsum Board*** - Thickness, type, number of layers and fasteners shall be as specified in the individual Wall and Partition Design.

Specified Technologies Inc. 210 Evans Way Somerville, NJ 08876
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 (800)992-1180 • (908)526-8000 • FAX (908)231-8415 • E-Mail techserv@stifirestop.com • Website: www.stifirestop.com

2. **Steel Duct** - One nom 6 in. (152 mm) diam (or smaller) No. 30 GA (or heavier) galvanized steel duct to be installed either concentrically or eccentrically within the opening. Annular space to be min 0 in. (point contact) to max 1-1/2 in. (38 mm). Steel duct to be rigidly supported on both sides of floor-ceiling assembly.

3. **Fill, Void or Cavity Material* - Sealant** - Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with bottom surface of ceiling or top plate. Min 1/4 in. (6 mm) diam bead of fill material applied at point contact location at the penetrant/ceiling or chase wall top plate interface.

SPECIFIED TECHNOLOGIES INC - SpecSeal LCI Sealant, SpecSeal LC150 Sealant or Type WF300 Caulk

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

Specified Technologies Inc. 210 Evans Way Somerville, NJ 08876
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U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

ISSUE HISTORY

No.	Date	Description
1	04/15/22	Permit Submission

REVISION HISTORY

No.	Date	Description
-----	------	-------------

FUGLEBERG KOCH
 2555 Temple Trail, Winter Park, FL 32789 (407) 629-0595
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 CA NO. 4050 - E

JLC 22.0023.00

THE MADISON
 HUNTSVILLE, AL

DETAILS MECHANICAL

M6.06

Drawn: MRSMB
 Checked: BLSA/B
 Apprval: BLSA/B
 Date: 04/15/2022
 Project#: 572

COMcheck Software Version COMcheckWeb Envelope Compliance Certificate

Project Information
Energy Code: 2018 IECC
Project Title: The Madison - Building Type B
Location: Madison (Madison), Alabama
Climate Zone: 3a
Project Type: New Construction
Vertical Glazing / Wall Area: 22%

Construction Site: _____ Owner/Agent: _____ Designer/Contractor: _____

Additional Efficiency Package(s)
Credits: 1.0 Required 1.0 Proposed
Reduced Lighting Power, 1.0 credit

Building Area Floor Area
1-Multifamily - Nonresidential 51552

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor
Roof: Attic Roof, Wood Joists, (Bldg. Use 1 - Multifamily)	1473	38.0	0.0	0.027	0.027
Floor: Unheated Slab-On-Grade, Vertical 2 ft., (Bldg. Use 1 - Multifamily) (c)	637	---	10.0	0.540	0.540
NORTH					
Ext. Wall: Wood-Framed, 24in. o.c., (Bldg. Use 1 - Multifamily)	9964	21.0	0.0	0.060	0.064
Door: Glass (over 50% glazing): Metal Frame, Entrance Door, Perf. Specs.: Product ID G07, SHGC 0.40, PF 0.50, (Bldg. Use 1 - Multifamily) (b)	48	---	---	0.450	0.770
Door: Uninsulated Single-Layer Metal, Garage door 14% glazing, (Bldg. Use 1 - Multifamily)	573	---	---	1.500	0.310
Window: Vinyl Frame: Operable, Perf. Specs.: Product ID L, SHGC 0.25, (Bldg. Use 1 - Multifamily) (b)	1849	---	---	0.300	0.600
Window: Vinyl Frame: Fixed, Perf. Specs.: Product ID I & O, SHGC 0.25, (Bldg. Use 1 - Multifamily) (b)	144	---	---	0.300	0.460
EAST					
Ext. Wall: Wood-Framed, 24in. o.c., (Bldg. Use 1 - Multifamily)	3834	21.0	0.0	0.060	0.064
Window: Vinyl Frame: Operable, Perf. Specs.: Product ID L & R, SHGC 0.25, (Bldg. Use 1 - Multifamily) (b)	628	---	---	0.300	0.600
Window: Vinyl Frame: Fixed, Perf. Specs.: Product ID I & O, SHGC 0.25, (Bldg. Use 1 - Multifamily) (b)	68	---	---	0.300	0.460
SOUTH					
Ext. Wall: Wood-Framed, 24in. o.c., (Bldg. Use 1 - Multifamily)	9973	21.0	0.0	0.060	0.064
Door: Glass (over 50% glazing): Metal Frame, Entrance Door, Perf. Specs.: Product ID G07, SHGC 0.40, PF 0.50, (Bldg. Use 1 - Multifamily) (b)	336	---	---	0.450	0.770
Window: Vinyl Frame: Operable, Perf. Specs.: Product ID L, SHGC 0.25, (Bldg. Use 1 - Multifamily) (b)	2068	---	---	0.300	0.600
Window: Vinyl Frame: Fixed, Perf. Specs.: Product ID I & O, SHGC 0.25, (Bldg. Use 1 - Multifamily) (b)	108	---	---	0.300	0.460

Project Title: The Madison - Building Type B Report date: 04/18/22
Data filename: _____ Page 1 of 22

COMcheck Software Version COMcheckWeb Envelope Compliance Certificate

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor
SHGC 0.25, (Bldg. Use 1 - Multifamily) (b)					
WEST					
Ext. Wall: Wood-Framed, 24in. o.c., (Bldg. Use 1 - Multifamily)	3855	21.0	0.0	0.060	0.064
Window: Vinyl Frame: Operable, Perf. Specs.: Product ID L & R, SHGC 0.25, (Bldg. Use 1 - Multifamily) (b)	628	---	---	0.300	0.600
Window: Vinyl Frame: Fixed, Perf. Specs.: Product ID I & O, SHGC 0.25, (Bldg. Use 1 - Multifamily) (b)	68	---	---	0.300	0.460

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.
(b) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.
(c) Slab-On-Grade proposed and budget U-factors shown in table are F-factors.

Envelope PASSES: Design 19% better than code

Envelope Compliance Statement
Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 2018 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Adam J. Barney, P.E. Signature _____ Date 04/18/2022

COMcheck Software Version COMcheckWeb Interior Lighting Compliance Certificate

Project Information
Energy Code: 2018 IECC
Project Title: The Madison - Building Type B
Project Type: New Construction

Construction Site: _____ Owner/Agent: _____ Designer/Contractor: _____

Additional Efficiency Package(s)
Credits: 1.0 Required 1.0 Proposed
Reduced Lighting Power, 1.0 credit

Allowed Interior Lighting Power

Area Category	B Floor Area (ft ²)	C Allowed Watts / ft ²	D Allowed Watts
1-Multifamily	51552	0.61	31550
Total Allowed Watts =			31550

Proposed Interior Lighting Power

Fixture ID - Description / Lamp / Wattage Per Lamp / Ballast	A	B Lamps/ Fixture	C # of Fixture	D Watt. (C X D)	E
1-Multifamily					
LED-A: LED Other Fixture Unit 16W:	1	85	15	1275	
LED-B1: LED Other Fixture Unit 25W:	1	30	21	630	
LED-C: LED Other Fixture Unit 16W:	1	63	17	1071	
LED-CL: LED Other Fixture Unit 16W:	1	114	17	1938	
LED-D: LED Other Fixture Unit 28W:	1	63	30	1890	
LED-F: LED Other Fixture Unit 28W:	1	136	55	7480	
LED-TL: LED Other Fixture Unit 16W:	1	38	18	684	
LED-G: LED Other Fixture Unit 25W:	1	64	21	1344	
LED-H: LED Other Fixture Unit 25W:	1	8	21	168	
LED-BA: LED Other Fixture Unit 13W:	1	50	14	Exempt	
Exemption: Lighting approved for safety considerations	1	9	14	Exempt	
LED-B: LED Other Fixture Unit 13W:	1	30	53	Exempt	
Exemption: Lighting approved for safety considerations	1	4	37	Exempt	
Exemption: Emergency lighting automatically off during normal business operation	1	28	31	868	
LED-BD: LED Other Fixture Unit 36W:	1	24	3	Exempt	
Exemption: Lighting approved for safety considerations	1	28	31	868	
LED-BF: LED Other Fixture Unit 28W:	1	24	3	Exempt	
LED-EM: LED Other Fixture Unit 6.5W:	1	24	3	Exempt	
Exemption: Lighting approved for safety considerations					
Total Proposed Watts = 17348					

Project Title: The Madison - Building Type B Report date: 04/18/22
Data filename: _____ Page 3 of 22

Interior Lighting PASSES: Design 45% 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 2018 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Blake L. Suddeth, P.E. Signature _____ Date 04/18/2022

COMcheck Software Version COMcheckWeb Exterior Lighting Compliance Certificate

Project Information
Energy Code: 2018 IECC
Project Title: The Madison - Building Type B
Project Type: New Construction
Exterior Lighting Zone: 2 (Residentially zoned area (LZ2))

Construction Site: _____ Owner/Agent: _____ Designer/Contractor: _____

Allowed Exterior Lighting Power

Area/Surface Category	B Quantity	C Allowed Watts /	D Tradable Wattage	E Allowed Watts (B X C)
Pedestrian and vehicular entrances and exits illuminated area of facade wall or surface	12 ft of 500 ft ²	14	Yes	168
		0.07	No	38
Total Tradable Watts (a) =				168
Total Allowed Watts =				206
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

Fixture ID - Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Watt. (C X D)	E
Pedestrian and vehicular entrances and exits (12 ft of door width): Tradable Wattage				
LED-BW: LED Other Fixture Unit 36W:	1	4	36	144
Illuminated area of facade wall or surface (500 ft²): Non-tradable Wattage				
LED-BW: LED Other Fixture Unit 36W:	1	4	36	144
Total Tradable Proposed Watts = 144				

Exterior Lighting PASSES: Design 69% 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 2018 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Blake L. Suddeth, P.E. Signature _____ Date 04/18/2022

COMcheck Software Version COMcheckWeb Mechanical Compliance Certificate

Project Information
Energy Code: 2018 IECC
Project Title: The Madison - Building Type B
Location: Madison (Madison), Alabama
Climate Zone: 3a
Project Type: New Construction

Construction Site: _____ Owner/Agent: _____ Designer/Contractor: _____

Additional Efficiency Package(s)
Credits: 1.0 Required 1.0 Proposed
Reduced Lighting Power, 1.0 credit

Mechanical Systems List

Quantity	System Type & Description
18	AHU-1 (Single Zone): Cooling: 19 each - Split System, Capacity = 18 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 14.00 SEER, Required Efficiency: 13.00 SEER Fan System: FAN SYSTEM 1 - Compliance (Motor nameplate HP and fan efficiency method) - Passes Fans: 1.5-TON Supply, Constant Volume, 600 CFM, 0.3 motor nameplate hp, 98.0 fan efficiency grade, 98.0 total fan efficiency, 98.0 design fan efficiency, fan exception: Fan array <= 5 total HP
14	AHU-2 (Single Zone): Cooling: 14 each - Split System, Capacity = 24 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 14.00 SEER, Required Efficiency: 13.00 SEER Fan System: FAN SYSTEM 2 - Compliance (Motor nameplate HP and fan efficiency method) - Passes Fans: 2-TON Supply, Constant Volume, 800 CFM, 0.3 motor nameplate hp, 98.0 fan efficiency grade, 98.0 total fan efficiency, 98.0 design fan efficiency, fan exception: Fan array <= 5 total HP
8	AHU-4 (Single Zone): Cooling: 1 each - Split System, Capacity = 36 kBtu/h, Air-Cooled Condenser, Unknown Economizer Proposed Efficiency = 14.00 SEER, Required Efficiency: 13.00 SEER Fan System: FAN SYSTEM 4 - Compliance (Motor nameplate HP and fan efficiency method) - Passes Fans: FAN 4 Supply, Constant Volume, 1200 CFM, 0.5 motor nameplate hp, 98.0 fan efficiency grade, 98.0 total fan efficiency, 98.0 design fan efficiency, fan exception: Fan array <= 5 total HP
3	Water Heater: Electric Storage Water Heater, Capacity: 38 gallons Proposed Efficiency: 1.00 SL, %h (if > 12 kW), Required Efficiency: 1.01 SL, %h (if > 12 kW)
30	Water Heater: Electric Storage Water Heater, Capacity: 40 gallons Proposed Efficiency: 0.98 SL, %h (if > 12 kW), Required Efficiency: 0.98 SL, %h (if > 12 kW)
8	Water Heater: Electric Storage Water Heater, Capacity: 50 gallons w/ Circulation Pump Proposed Efficiency: 0.84 SL, %h (if > 12 kW), Required Efficiency: 0.84 SL, %h (if > 12 kW)

Project Title: The Madison - Building Type B Report date: 04/18/22
Data filename: _____ Page 6 of 22

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2018 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Adam J. Barney, P.E. Signature _____ Date 04/18/2022

ISSUE HISTORY

No.	Date	Description
1	04/15/22	Permit Submission

REVISION HISTORY

No.	Date	Description

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Drawn:	MRSMB
Checked:	BLSAB
Approved:	BLSAB
Date:	04/15/2022
Project #:	572

THE MADISON

HUNTSVILLE, AL

ENERGY CALCULATIONS MECHANICAL

M7.02

ELECTRICAL SYMBOL LEGEND

WIRING AND POWER

NOTE: SYMBOLS SHOWN ARE FOR REFERENCE PURPOSES ONLY. ALL OF THESE SYMBOLS MAY NOT BE USED FOR THIS PROJECT.

- WALL OUTLET BOX AND SINGLE RECEPTACLE
- ⊖ WALL OUTLET BOX AND DUPLEX RECEPTACLE
- ⊖⊖ TWO GANG WALL OUTLET BOX AND (2) DUPLEX RECEPTACLES
- ⊖⊖ WALL OUTLET BOX AND DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER
- ⊖⊖ WALL OUTLET BOX AND DUPLEX RECEPTACLE WITH TOP HALF SWITCHED
- ⊖⊖ WALL OUTLET BOX AND DUPLEX RECEPTACLE CONNECTED TO EMERGENCY SYSTEM
- ⊖⊖ CEILING OUTLET BOX AND SINGLE RECEPTACLE
- ⊖⊖ CEILING OUTLET BOX AND DUPLEX RECEPTACLE
- ⊖⊖ WALL OUTLET BOX AND GFCI DUPLEX RECEPTACLE
- ⊖⊖ WALL OUTLET BOX AND GFCI DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER
- ⊖⊖^S WALL OUTLET BOX AND DUPLEX SAFETY RECEPTACLE
- ⊖⊖^T WALL OUTLET BOX AND DUPLEX TWIST-LOCK RECEPTACLE
- ⊖⊖^{WP} WALL OUTLET BOX AND GFCI DUPLEX RECEPTACLE WITH WEATHERPROOF COVER
- ⊖⊖ WALL OUTLET BOX AND SPECIAL PURPOSE OUTLET AS NOTED ON PLANS
- ⊖⊖ FLUSH FLOOR OUTLET BOX WITH DUPLEX RECEPTACLE
- ⊖⊖⊖ FLUSH FLOOR OUTLET BOX WITH (2) DUPLEX RECEPTACLES
- ⊖⊖⊖ FLUSH FLOOR OUTLET BOX WITH DUPLEX RECEPTACLE AND TELECOMMUNICATIONS OUTLET
- ⊖⊖ FLUSH WALL JUNCTION BOX AND BLANK PLATE
- ⊖ JUNCTION BOX AND BLANK PLATE ABOVE CEILING
- ⊖ SURFACE MOUNTED JUNCTION BOX AND BLANK PLATE
- ⊖^{WP} SURFACE MOUNTED WEATHERPROOF JUNCTION BOX AND COVER
- ⊖^{PB} FLUSH GRADE FIBER COMPOSITE PULL BOX AS NOTED
- ⊖^{MC} MOTOR CONNECTION AS NOTED
- ⊖ SHUNT-TRIP BUTTON, MOUNTED 80° TO TOP
- ⊖ CONTROL AND/OR POWER EQUIPMENT CONNECTION
- ⊖ TIME CLOCK
- ⊖ PHOTO CELL
- ⊖ DISCONNECT SWITCH, SIZE AS NOTED
- 120/208V BRANCH CIRCUIT PANELBOARD, SURFACE MOUNTED
- 120/208V BRANCH CIRCUIT PANELBOARD, FLUSH MOUNTED
- 277/480V BRANCH CIRCUIT PANELBOARD
- ⊖ TRANSFORMER
- ⊖ AUTOMATIC TRANSFER SWITCH
- BRANCH CIRCUIT HOMERUN WITH PANEL NAME AND CIRCUIT NUMBER, QUANTITY OF ARROWHEADS DENOTES QUANTITY OF BRANCH CIRCUITS
- BRANCH CIRCUIT WIRING, PROVIDE QUANTITY OF CONDUCTORS REQUIRED FOR CIRCUITING AND SWITCHING INDICATED ON PLANS
- POWER LEG ONLY (NO SWITCH LEG BETWEEN ROOMS)
- CONDUIT CAPPED OFF
- CONDUIT CONTINUED
- CONDUIT RUN UP
- CONDUIT RUN DOWN
- GROUND OR GROUND ROD AS NOTED

LIGHTING AND SWITCHING

- ⊖ CEILING MOUNTED LIGHT FIXTURE, REFER TO LIGHT FIXTURE SCHEDULE
- ⊖ CEILING MOUNTED RECESSED DOWNLIGHT FIXTURE, REFER TO LIGHT FIXTURE SCHEDULE
- ⊖ CEILING MOUNTED RECESSED WALLWASH FIXTURE, REFER TO LIGHT FIXTURE SCHEDULE
- ⊖ CEILING MOUNTED "CLOSE TO CEILING" FIXTURE, REFER TO LIGHT FIXTURE SCHEDULE
- ⊖ PENDANT MOUNTED LIGHT FIXTURE, REFER TO LIGHT FIXTURE SCHEDULE
- ⊖ TRACK LIGHT FIXTURE WITH HEADS AS REQUIRED, REFER TO LIGHT FIXTURE SCHEDULE
- ⊖ WALL MOUNTED LIGHT FIXTURE, REFER TO LIGHT FIXTURE SCHEDULE
- ⊖ CEILING MOUNTED LIGHT FIXTURE WITH EMERGENCY BACKUP
- ⊖ CEILING MOUNTED RECESSED DOWNLIGHT FIXTURE WITH EMERGENCY BACKUP
- ⊖ WALL MOUNTED LIGHT FIXTURE WITH EMERGENCY BACKUP
- ⊖ WALL MOUNTED EMERGENCY BATTERY LIGHT FIXTURE, REFER TO LIGHT FIXTURE SCHEDULE
- ⊖ CEILING MOUNTED EMERGENCY BATTERY LIGHT FIXTURE, REFER TO LIGHT FIXTURE SCHEDULE
- ⊖ CEILING MOUNTED EXIT SIGN WITH EMERGENCY BACKUP, REFER TO LIGHT FIXTURE SCHEDULE
- ⊖ WALL MOUNTED EXIT SIGN WITH EMERGENCY BACKUP, REFER TO LIGHT FIXTURE SCHEDULE
- ⊖ COMBINATION EXIT SIGN AND EMERGENCY LIGHT FIXTURE WITH BATTERY BACKUP
- S₁ WALL OUTLET BOX AND SINGLE POLE SWITCH ("a" INDICATES SWITCH LEG)
- S₃ WALL OUTLET BOX AND THREE-WAY SWITCH
- S_F WALL OUTLET BOX AND FAN CONTROL SWITCH
- S₀ WALL OUTLET BOX AND DIMMER SWITCH AS REQUIRED FOR LOAD SERVED
- S₀₃ WALL OUTLET BOX AND THREE-WAY DIMMER SWITCH
- S_M WALL OUTLET BOX WITH SINGLE POLE MANUAL MOTOR STARTER SWITCH
- S₀ WALL OUTLET BOX AND DUAL TECHNOLOGY OCCUPANCY SENSOR
- S_T WALL OUTLET BOX AND DIGITAL TIMECLOCK SWITCH FOR AUTOMATIC CONTROL
- ⊖ CEILING OUTLET BOX AND DUAL TECHNOLOGY OCCUPANCY SENSOR
- ⊖ CEILING OUTLET BOX AND DAYLIGHT HARVESTING SENSOR

FIRE ALARM SYSTEM LEGEND

- ⊖ MANUEL PULL STATION
- ⊖^{cd} WALL MOUNTED HORN WITH STROBE (cd=CANDELA RATING)
- ⊖^{WP} WALL MOUNTED HORN WITH STROBE IN WEATHERPROOF ENCLOSURE
- ⊖ CEILING MOUNTED HORN WITH STROBE
- ⊖^M WALL MOUNTED MINI HORN
- ⊖^M WALL MOUNTED MINI HORN WITH STROBE
- ⊖ WALL MOUNTED VOICE EVACUATION SPEAKER WITH STROBE
- ⊖ CEILING MOUNTED VOICE EVACUATION SPEAKER WITH STROBE
- ⊖ WALL MOUNTED STROBE
- ⊖ SMOKE DETECTOR
- ⊖^{CO} SMOKE AND CARBON MONOXIDE COMBINATION DETECTOR
- ⊖ DUCT MOUNTED SMOKE DETECTOR
- ⊖ HEAT DETECTOR
- ⊖ REMOTE DUCT DETECTOR INDICATOR LIGHT AND TEST SWITCH (NUMBER INDICATES QUANTITY)
- ⊖ FAN SHUT-DOWN RELAY
- ⊖ ELECTROMAGNETIC DOOR RELEASE DEVICE
- SMOKE DAMPER (PROVIDE BY MECHANICAL, CONNECTED BY ELECTRICAL)
- ⊖ FIREMAN'S PHONE JACK
- ⊖ SPRINKLER SYSTEM SUPERVISORY SWITCH CONNECTION
- ⊖ SPRINKLER SYSTEM FLOW SWITCH CONNECTION
- ⊖ CONTROL MODULE
- ⊖ MONITOR MODULE
- ⊖ LOCK BOX
- FACP FIRE ALARM CONTROL PANEL
- FATC FIRE ALARM TERMINAL CABINET
- FAMP FIRE ALARM ANNUNCIATOR PANEL
- DACT DIGITAL ALARM COMMUNICATOR TRANSMITTER

TELECOMMUNICATION SYSTEM LEGEND

- ⊖ COMBINATION TELECOMMUNICATIONS/DATA WALL OUTLET BOX AND BLANK PLATE WITH MIN. 3/4" TO ACCESSIBLE CEILING SPACE. COORDINATE OUTLET REQUIREMENTS WITH OWNER.
- ⊖ TELECOMMUNICATIONS WALL OUTLET BOX AND BLANK PLATE FOR WALL MOUNTED TELEPHONE WITH MIN. 3/4" TO ACCESSIBLE CEILING SPACE. COORDINATE OUTLET REQUIREMENTS WITH OWNER.
- ⊖ DATA WALL OUTLET BOX AND BLANK PLATE WITH MIN. 3/4" TO ACCESSIBLE CEILING SPACE. COORDINATE OUTLET REQUIREMENTS WITH OWNER.
- ⊖ FLUSH FLOOR OUTLET BOX WITH POWER DEVICE AND TELECOMMUNICATIONS OUTLET WITH MIN. 3/4" TO ACCESSIBLE CEILING SPACE.
- ⊖^{WAP} CEILING OUTLET BOX AND BLANK PLATE WITH MIN. 3/4" TO TTB FOR WIRELESS ACCESS POINT. COORDINATE OUTLET REQUIREMENTS WITH OWNER.
- ⊖ COMBINATION TELECOMMUNICATIONS/TELEVISION WALL OUTLET BOX AND BLANK PLATE. COORDINATE OUTLET AND CABLING REQUIREMENTS WITH OWNER.
- ⊖ 3/4" PLYWOOD TELEPHONE TERMINAL BOARD, SIZE AS SHOWN ON PLANS.
- ⊖ TELEPHONE TERMINAL CABINET, SIZE AS NOTED ON PLAN.

- GENERAL NOTES**
1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE (NFPA 70), AND THE LATEST ADOPTED EDITION OF THE INTERNATIONAL BUILDING CODE.
 2. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND COORDINATE WITH ALL EQUIPMENT MANUFACTURER/INSTALLERS PRIOR TO BIDDING.
 3. ALL ELECTRICAL MATERIALS, DEVICES, APPLIANCES, AND EQUIPMENT SHALL BE LABEL LISTED BY AN APPROVED THIRD-PARTY TESTING AGENCY.
- BUILDING:**
4. INSTALLATION HEIGHT OF EQUIPMENT (TO CENTERLINE) ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE SHALL BE:
 RECEPTACLE = 18"
 CLOCK = 7'-6"
 SWITCH = 44"
 MODULAR JACK FOR WALL MOUNTED TELEPHONE = 48"
 MODULAR TELEPHONE JACK = 18"
 TELEVISION OUTLET = 84"
 COMPUTER OUTLET = 18"
 CALL SWITCH = 44"
 REMOTE TEST STATION FOR DUCT DETECTOR = 52"
 C = ABOVE COUNTER BACKSPLASH, COORDINATE WITH ARCHITECTURAL ELEVATIONS AND MILLWORK.
 5. ALL CONDUIT AND WIRING SHALL BE CONCEALED IN WALLS OR ABOVE CEILINGS UNLESS NOTED OTHERWISE OR APPROVED BY THE ARCHITECT/ENGINEER. ALL DEVICE OUTLET BOXES SHALL BE RECESSED UNLESS NOTED OTHERWISE OR APPROVED BY THE ARCHITECT/ENGINEER. WHERE APPROVED OR NOTED SURFACE METAL RACEWAY AND DEVICE BOXES SHALL BE USED IN LIEU OF CONDUIT AND CONCEALED BOXES AT NO EXTRA COST TO THE OWNER.
 6. ALL CONDUIT ROUTING SHOWN IS APPROXIMATE ONLY. CONTRACTOR SHALL FIELD VERIFY FINAL ROUTE WITH ALL OTHER TRADES AND CONDITIONS IN FIELD PRIOR TO ROUGH-IN.
 7. CONDUIT RUNS SHOWN ARE SCHEMATIC AND DO NOT INDICATE THE NECESSARY FITTINGS AND JUNCTION BOXES THAT ARE INCLUDED IN THE SCOPE OF THE WORK.
 8. CONTRACTOR SHALL PERMANENTLY IDENTIFY ALL WIRING WITH THE SOURCE AND CIRCUIT AT ALL ELECTRICAL EQUIPMENT, PULL, AND JUNCTION BOXES AND ELECTRICAL TERMINATIONS PROVIDED OR ASSOCIATED WITH THIS CONSTRUCTION.
 9. COORDINATE EXACT LOCATION OF LIGHTING FIXTURES IN MECH. ROOMS/SPACES WITH DUCTWORK INSTALLER PRIOR TO ROUGH-IN. LOCATE BELOW DUCTWORK(6"-0" AFF MINIMUM) CENTERED IN ROOM AS MUCH AS POSSIBLE.
 10. COORDINATE EXACT INSTALLATION REQUIREMENTS OF OUTLETS IN MILLWORK WITH ARCHITECTURAL DRAWINGS, APPROVED SHOP DRAWINGS AND MILLWORK INSTALLER PRIOR TO ROUGH-IN.
 11. VERIFY EXACT LOCATION OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL INSTALLER PRIOR TO ROUGH-IN.
 12. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF ALL LIGHT FIXTURES.
 13. PROVIDE NYLON PULLSTRINGS IN ALL EMPTY CONDUITS.
 14. COORDINATE THE EXACT LOCATION OF ALL ELECTRICAL EQUIPMENT LOCATED IN ELEVATOR MACHINE ROOMS, SHAFTS AND PITS. LOCATE EQUIPMENT AS REQUIRED TO MEET APPLICABLE CODES PROVIDE AUTOMATIC DISCONNECTION OF THE ELEVATOR MAIN POWER SUPPLY (PER ANSI A17.1, RULE 1102.2, 1987 ED.) PRIOR TO ACTIVATION OF AUTOMATIC SPRINKLER LOCATED WITHIN THE ELEVATOR MACHINE ROOM, PIT OR SHAFT. COORDINATE WITH FIRE PROTECTION AND FIRE ALARM INSTALLER.
 15. COORDINATE THE REQUIRED SIZE OF ALL CIRCUIT BREAKERS FEEDING EQUIPMENT, (I.E. MOTORS, HVAC, KITCHEN EQUIPMENT, SPECIAL PURPOSE OUTLETS, ELEVATORS, OWNER FURNISHED EQUIPMENT ETC.) WITH APPROVED EQUIPMENT SHOP DRAWINGS AND OWNER REPRESENTATIVES PRIOR TO ORDERING PANELBOARDS. BREAKERS SHALL BE SIZED PER THE NEC, THE EQUIPMENT NAME PLATE AND MANUFACTURERS RECOMMENDATIONS.
 16. ALL DIMMED CIRCUITS SHALL BE PROVIDED WITH DEDICATED NEUTRALS FOR EACH DIMMER AND PHASE CONDUCTOR THROUGHOUT THE ENTIRE CIRCUIT.
 17. THE POWER COMPANY SHALL BE CONTACTED WITHIN 10 DAYS OF THE AWARD OF THE CONTRACT BY THE CONTRACTOR TO VERIFY THE ACTUAL AVAILABLE SHORT CIRCUIT FAULT CURRENT (AIC) AT THE TRANSFORMER SECONDARY BUSINGS. THE CONTRACTOR SHALL PROVIDE ELECTRICAL DISTRIBUTION AND UTILIZATION EQUIPMENT AND PANELBOARDS WHICH HAVE AIC/WITHSTAND RATINGS GREATER THAN THE AVAILABLE AIC AT EACH POINT IN THE ELECTRICAL SYSTEM.
 18. VISIT THE EXISTING FACILITY AND CAREFULLY EXAMINE THOSE PORTIONS OF THE BUILDING AND SITE AFFECTED BY THIS WORK BEFORE SUBMITTING PROPOSALS, SO AS TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT EXECUTION OF THE WORK. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE AND LATER CLAIMS FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WILL NOT BE RECOGNIZED.
 19. CONTRACTOR SHALL INCLUDE IN HIS BID THE TRANSPORT AND DISPOSAL OR RECYCLING OF ALL WASTE MATERIALS GENERATED BY THIS PROJECT IN ACCORDANCE WITH ALL RULES, REGULATIONS AND GUIDELINES APPLICABLE.
 20. PANEL SCHEDULES INDICATE CIRCUIT DESIGNATIONS ONLY. CONTRACTOR TO PROVIDE MATERIALS AS REQUIRED WHEN NEUTRALS ARE SHARED TO COMPLY WITH NEC REQUIREMENTS. ALL SINGLE PHASE MULTIWIRE BRANCH CIRCUITS SHALL BE FED VIA A TWO POLE BREAKER OR TWO SINGLE POLE BREAKERS WITH AN IDENTIFIED HANDLE TIE. ALL THREE PHASE MULTIWIRE BRANCH CIRCUITS SHALL BE FED VIA A THREE POLE BREAKER OR THREE SINGLE POLE BREAKERS WITH AN IDENTIFIED HANDLE TIE (PER NEC 210.4B).
 21. PER NEC 110.22, PROVIDE PERMANENT LABELING FOR ALL SERIES RATED PANEL ENCLOSURES TO READ AS FOLLOWS: CAUTION - SERIES COMBINATION SYSTEM RATED _____ AMPERES. IDENTIFIED REPLACEMENT COMPONENTS REQUIRED.
 22. ELECTRICAL CONTRACTOR SHALL PROVIDE FULL LIGHTNING PROTECTION SYSTEM FOR THIS PROJECT PER NFPA 780.
- GROUNDING:**
28. ALL METAL RACEWAYS, INCLUDING CONDUIT, WIRE TROUGHS, WIREMOLD, ETC., SHALL BE GROUNDED. ALL CONNECTIONS IN METAL RACEWAYS SHALL BE COMPLETED IN SUCH A MANNER AS TO MAINTAIN A CONTINUOUS PATH TO GROUND THROUGHOUT THE ENTIRE LENGTH OF THE RACEWAY.
- WIRING:**
29. UNLESS NOTED OTHERWISE ON THE DRAWINGS OR ON THE EQUIPMENT WIRING SCHEDULE, EACH BRANCH CIRCUIT HOME RUN SHALL BE THREE (3) #12 AWG THHN/THWN (1 HOT, 1 NEUTRAL & 1 EQUIPMENT GROUND) IN 3/4" EMT CONDUIT. PROTECT EACH CIRCUIT WITH A 20 AMPERE, 1-POLE OVERCURRENT DEVICE UNLESS NOTED OTHERWISE. COMBINED NEUTRALS ARE NOT PERMITTED.



ISSUE HISTORY

No.	Date	Description
1	04/15/22	Permit Submission

REVISION HISTORY

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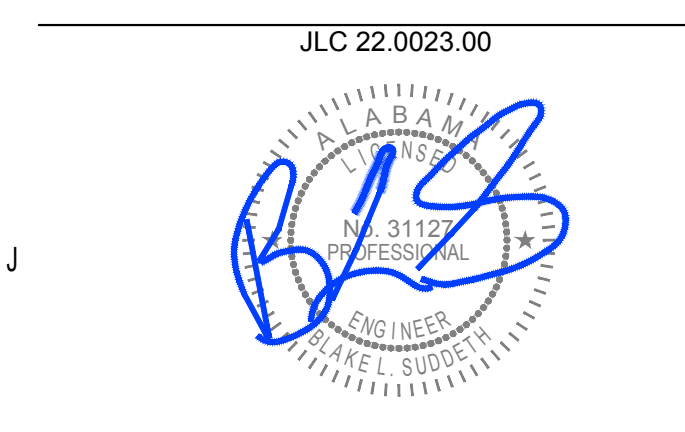
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THE MADISON
HUNTSVILLE, AL

SYMBOL LEGEND & GENERAL NOTES ELECTRICAL

E0.01

Drawn	MURSMB
Checked	BLSAJB
Approved	BLSAJB
Date	04/15/2022
Project #	5722

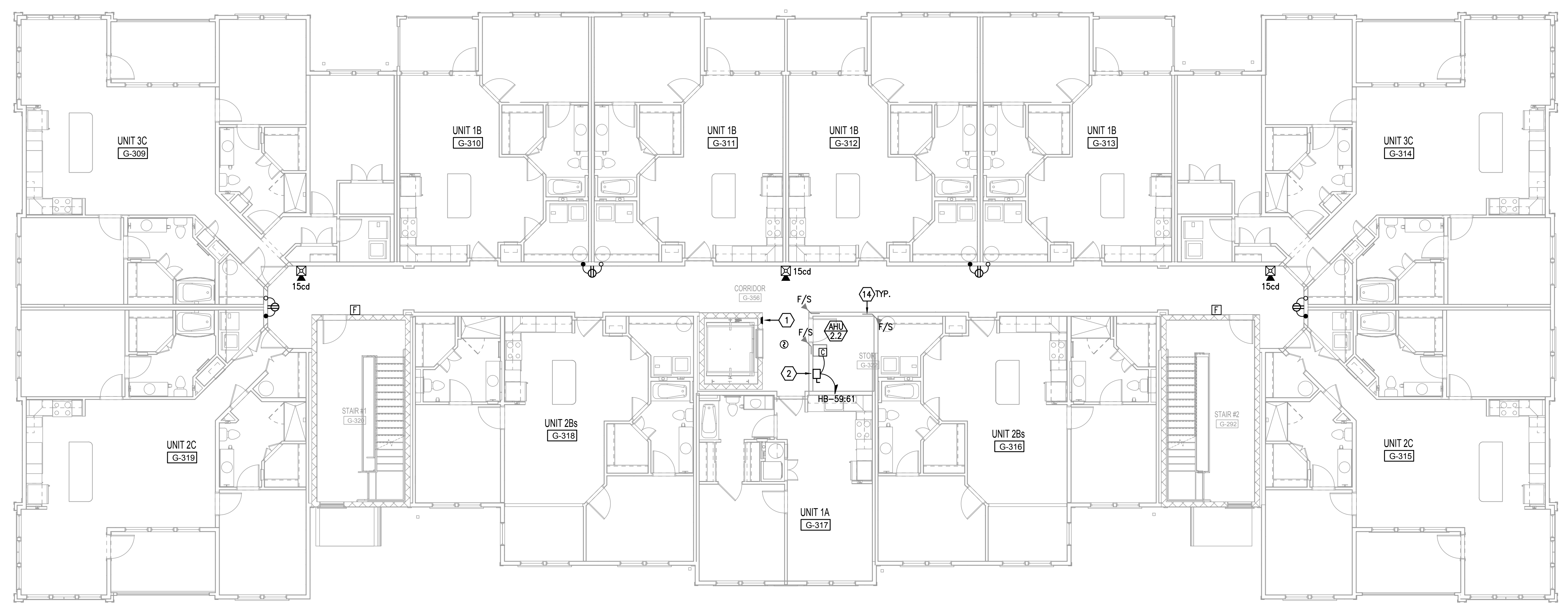


GENERAL NOTES:

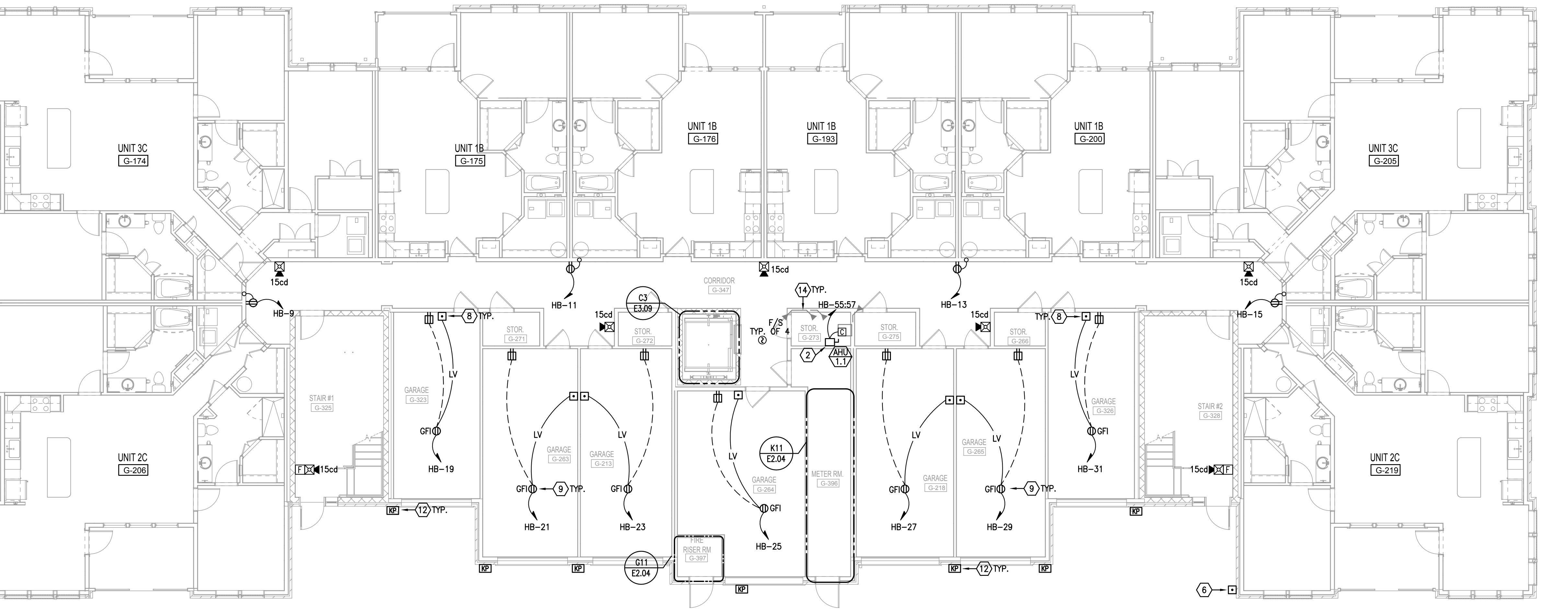
- A. DO NOT SCALE ELECTRICAL DRAWING FOR ANY DIMENSIONS.
- B. ALL WORK SHALL COMPLY WITH THE 2017 NATIONAL ELECTRICAL CODE, NATIONAL, STATE AND LOCAL CODES. PROVIDE GROUNDING AND BONDING PER NEC 250.
- C. SEE SINGLE LINE DIAGRAM FOR FEEDER WIRE AND CONDUIT SIZE. ALL CIRCUITS NOT SIZED ON DRAWING SHALL BE INSTALLED TO MEET MINIMUM SIZE REQUIRED BY NEC. ALL CONDUCTORS SHALL HAVE AN EQUIPMENT GROUND WIRE SIZED PER NEC.
- D. FIELD VERIFY EXACT LOCATION OF ALL DEVICES AND EQUIPMENT PRIOR TO ROUGH IN.
- E. REFER TO ENLARGED TYPICAL UNIT PLANS FOR ALL ELECTRICAL IN UNITS.

REFERENCE NOTES: (X)

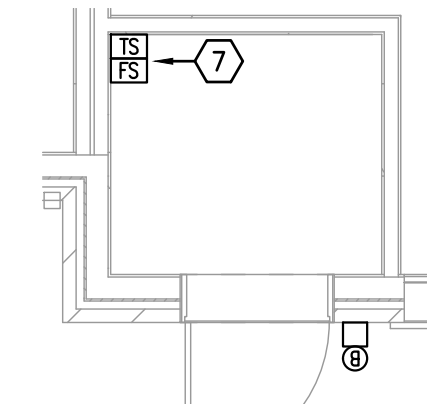
- ① PROVIDE TWO-WAY COMMUNICATION SYSTEM AND CABLE TO MAIN BASE STATION AS REQUIRED BY 2018 NFPA 70, AND 2018 NFPA 101 LIFE SAFETY CODE. COORDINATE LOCATION WITH OWNER AND AUTHORITY HAVING JURISDICTION PRIOR TO ROUGH-IN.
- ② ELECTRICAL CONTRACTOR SHALL COORDINATE DISCONNECT AND FUSE REQUIREMENTS FOR MECHANICAL UNIT WITH MECHANICAL CONTRACTOR AND EQUIPMENT MANUFACTURER PRIOR TO ROUGH-IN AND PROVIDE AS REQUIRED. COORDINATE LOCATION OF DISCONNECT WITH OWNER AND MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. LOCATE AS REQUIRED TO MAINTAIN NEC CLEARANCES.
- ③ COORDINATE EXACT LOCATION WITH THE ELECTRIC UTILITY AND ARCHITECTURAL PLANS. VERIFY 3'-0" CLEARANCE EXISTS IN FRONT OF METER CENTER AND HOUSE PANEL. A MAXIMUM OF 6'-6" SHALL BE MAINTAINED FROM GRADE TO THE CENTER OF THE HIGHEST METER.
- ④ PROVIDE 2" UNDERGROUND CONDUIT FROM FACP BACK TO MASTER FACP LOCATED IN CLUBHOUSE. REFER TO FIRE ALARM RISER DIAGRAM FOR ADDITIONAL INFORMATION.
- ⑤ CONNECT INTERIOR MECHANICAL MINI-SPLIT UNIT MAU-1 THROUGH EXTERIOR UNIT MCU-1. CONNECT PER MANUFACTURER'S RECOMMENDATIONS, AND PROVIDE ALL CONTROL WIRING, CONDUIT, ETC. AS REQUIRED.
- ⑥ COORDINATE EXACT LOCATION OF BUILDING SHUNT TRIP WITH FIRE MARSHALL PRIOR TO ROUGH-IN. SHUNT TRIP TO SHUT OFF ELECTRICAL SERVICE TO MCB.
- ⑦ COORDINATE EXACT LOCATION OF TAMPER AND FLOW SWITCHES WITH FIRE PROTECTION DRAWINGS PRIOR TO ROUGH-IN.
- ⑧ PROVIDE PUSHBUTTON CONTROL AND LOW VOLTAGE WIRING FOR GARAGE DOOR OPENER AS REQUIRED BY OWNER/MANUFACTURER.
- ⑨ PROVIDE 120V CEILING MOUNTED OUTLET FOR GARAGE DOOR OPENER. COORDINATE LOCATION WITH DOOR INSTALLER PRIOR TO ROUGH-IN. PROVIDE LOW VOLTAGE WIRING AND PUSH BUTON LOCATED NEAR DOOR AS REQUIRED.
- ⑩ GARAGE EXHAUST FAN TO BE CONTROLLED BY CARBON MONOXIDE DETECTOR PROVIDED BY MECHANICAL CONTRACTOR. CONNECT FAN TO LIGHTING CIRCUIT SERVING GARAGE. REFER TO LIGHTING PLAN FOR ADDITIONAL INFORMATION.
- ⑪ PROVIDE 120V CONNECTION TO CARBON MONOXIDE SENSOR PROVIDED BY MECHANICAL CONTRACTOR. COORDINATE CONTROL WIRING WITH MECHANICAL CONTRACTOR AND PROVIDE AS REQUIRED. CONNECT TO LOCAL GARAGE CIRCUIT.
- ⑫ PROVIDE EXTERIOR GARAGE DOOR KEYPAD. COORDINATE LOCATION AND REQUIREMENTS WITH GARAGE DOOR INSTALLER. PROVIDE LOW VOLTAGE WIRING AS REQUIRED.
- ⑬ ELECTRICAL CONTRACTOR SHALL PROVIDE (1) 8"x8" JUNCTION BOX WITH COVERPLATE ON EACH FLOOR OF BUILDING FOR FUTURE DAS SYSTEM IF REQUIRED. PROVIDE 27C (EMPTY W/ PULLSTRING) BETWEEN ALL JUNCTION BOXES FOR FUTURE DAS SYSTEM WIRING. COORDINATE LOCATION OF JUNCTION BOXES WITH OWNER AND FIRE ALARM CONTRACTOR PRIOR TO ROUGH-IN. LABEL ALL JUNCTION BOXES, COVERPLATE AND CONDUIT AS REQUIRED FOR FUTURE IDENTIFICATION.
- ⑭ PROVIDE 120V CIRCUIT FOR CONNECTION OF FIRE/SMOKE DAMPER. CONNECT TO CIRCUIT HA-29. COORDINATE LOCATION AND CONNECTION REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.



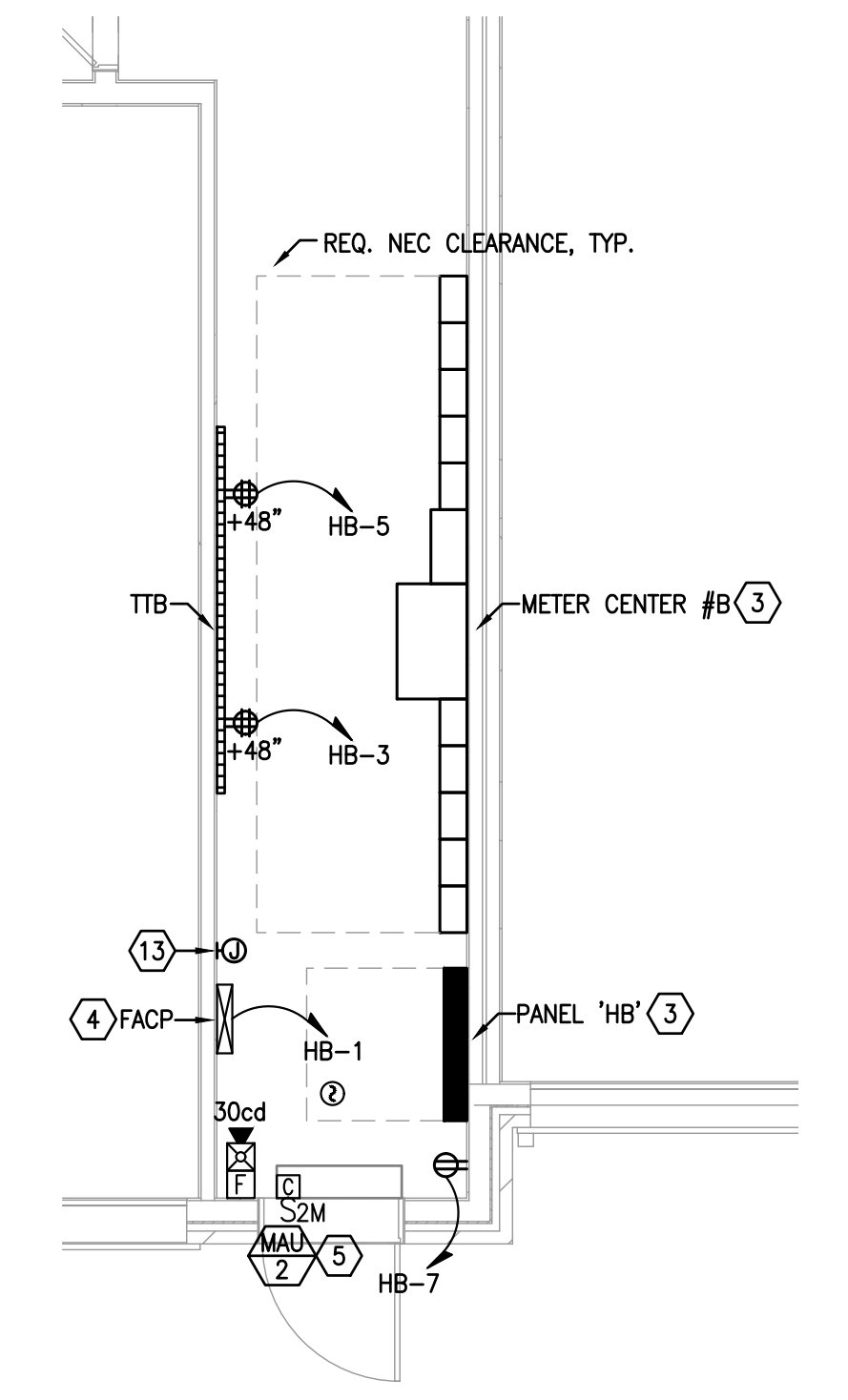
F1 BUILDING TYPE B - 2ND LEVEL - POWER & SYSTEMS
1/8" = 1'-0"



K1 BUILDING TYPE B - GROUND LEVEL - POWER & SYSTEMS
1/8" = 1'-0"



G11 ENLARGED PLAN - FIRE RISER ROOM
1/4" = 1'-0"



K11 ENLARGED PLAN - ELEC. ROOM
1/4" = 1'-0"

ISSUE HISTORY

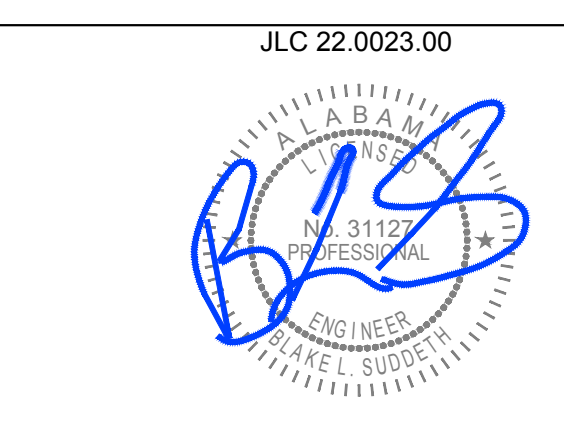
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THE MADISON
 HUNTSVILLE, AL
 BUILDING TYPE B
 GROUND & 2ND LEVEL
 POWER & SYSTEMS
E2.04

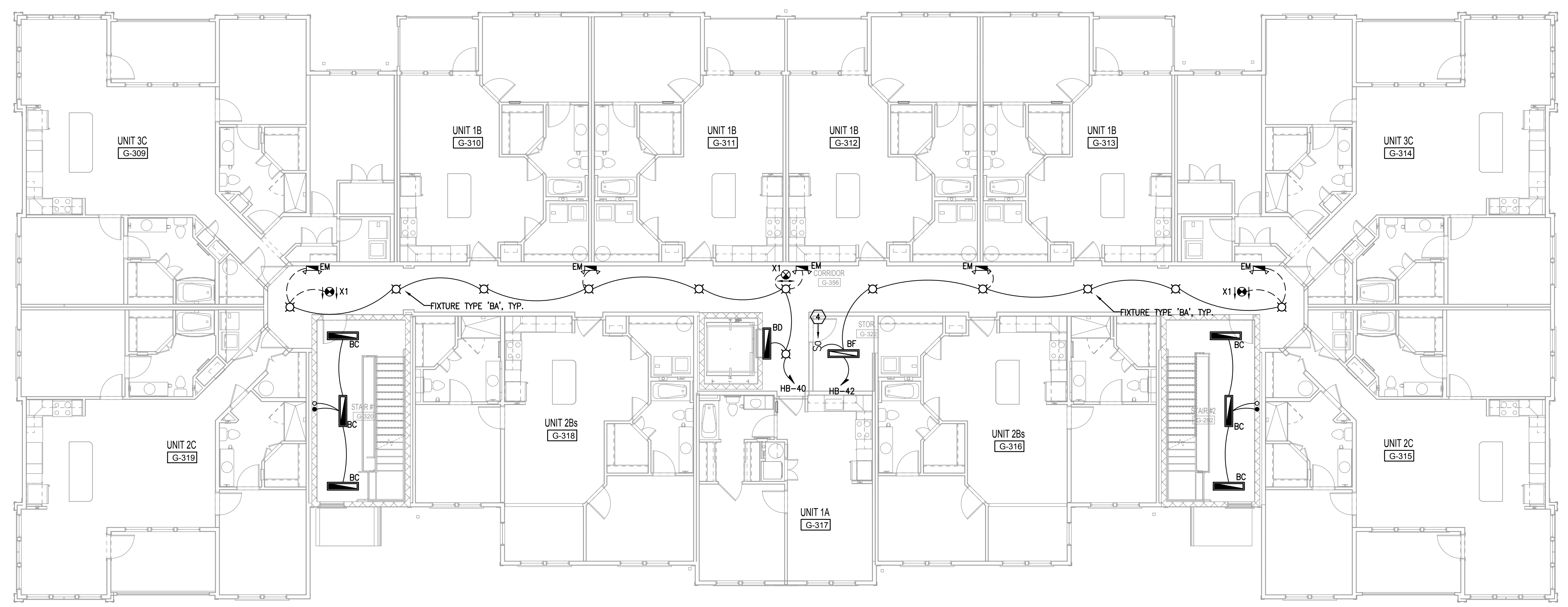


GENERAL NOTES:

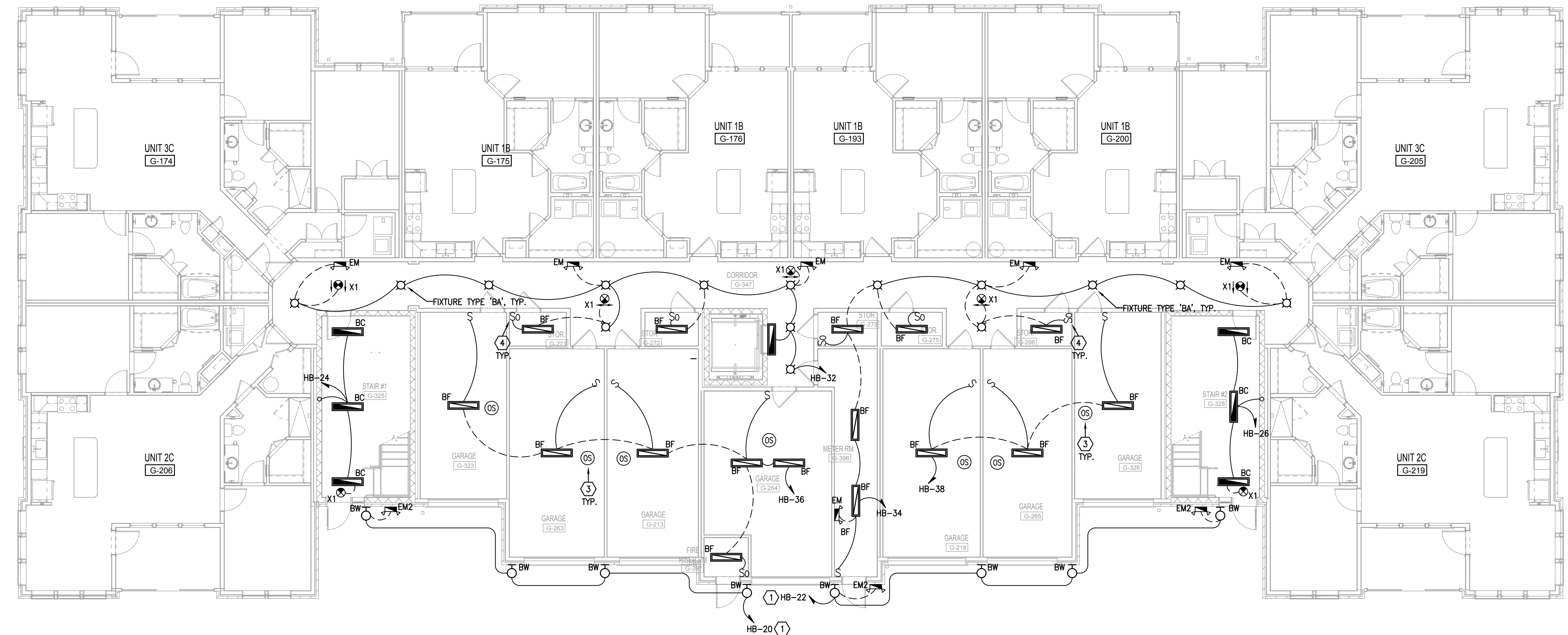
- A. DO NOT SCALE ELECTRICAL DRAWING FOR ANY DIMENSIONS.
- B. ALL WORK SHALL COMPLY WITH THE 2017 NATIONAL ELECTRICAL CODE, NATIONAL, STATE AND LOCAL CODES. PROVIDE GROUNDING AND BONDING PER NEC 250.
- C. SEE SINGLE LINE DIAGRAM FOR FEEDER WIRE AND CONDUIT SIZE. ALL CIRCUITS NOT SIZED ON DRAWING SHALL BE INSTALLED TO MEET MINIMUM SIZE REQUIRED BY NEC. ALL CONDUCTORS SHALL HAVE AN EQUIPMENT GROUND WIRE SIZED PER NEC.
- D. FIELD VERIFY EXACT LOCATION OF ALL DEVICES AND EQUIPMENT PRIOR TO ROUGH IN.
- E. REFER TO ENLARGED TYPICAL UNIT PLANS FOR ALL ELECTRICAL IN UNITS.
- F. 'NL' NEXT TO FIXTURE DESIGNATES FIXTURE TO BE CONNECTED AHEAD OF AUTOMATIC CONTROLS TO OPERATE CONTINUOUSLY.
- G. ALL EMERGENCY LIGHTING FIXTURES AND EXIT SIGNS SHALL BE CONNECTED "HOT" TO THE INDICATED LOCAL LIGHTING CIRCUIT.
- H. EMERGENCY ILLUMINATION SHALL BE PROVIDED FOR A PERIOD OF 90 MINUTES IN THE EVENT OF FAILURE OF NORMAL LIGHTING. EMERGENCY LIGHTING FACILITIES SHALL BE ARRANGED TO PROVIDE INITIAL ILLUMINATION THAT IS AT LEAST AN AVERAGE OF 1 FOOTCANDLE (10 LUX) AND A MINIMUM AT ANY POINT OF 0.1 FOOTCANDLE (1 LUX) MEASURED ALONG THE PATH OF EGRESS AT FLOOR LEVEL. ILLUMINATION LEVELS SHALL BE PERMITTED TO DECLINE TO 0.6 FOOTCANDLE (6 LUX) AVERAGE AND A MINIMUM AT ANY POINT OF 0.06 FOOTCANDLE (0.6 LUX) AT THE END OF THE EMERGENCY LIGHTING TIME DURATION. A MAXIMUM-TO-MINIMUM ILLUMINATION UNIFORMITY RATIO OF 40:1 SHALL NOT BE EXCEEDED.

REFERENCE NOTES:

- (1) CONNECT CIRCUIT VIA LIGHTING CONTACTOR FOR AUTOMATIC CONTROL OF FIXTURES.
- (2) NOT USED.
- (3) PROVIDE CEILING MOUNTED OCCUPANCY SENSOR FOR AUTOMATIC CONTROL OF ROOM LIGHTING. SENSOR SHALL OVERRIDE WALL CONTROL AND "TURN OFF" ROOM LIGHTS IF ROOM UNOCCUPIED FOR MORE THAN 20 MINUTES. PROVIDE ADDITIONAL SENSORS, RELAY PACKS, CONTROL WIRING, ETC. AS REQUIRED FOR COMPLETE COVERAGE OF ROOM AND CIRCUITS/SWITCH LEGS SHOWN. CONTROLS SHALL BE "MANUAL ON/AUTOMATIC OFF" WITH THE EXCEPTION OF RESTROOMS, PUBLIC CORRIDORS, AND LOBBIES. THESE AREAS SHALL BE FULLY AUTOMATIC ON/AUTOMATIC OFF" IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE SECTION 107.2.1.
- (4) PROVIDE WALL MOUNTED, DUAL TECHNOLOGY, LOW VOLTAGE VACANCY SENSOR, WATSTOPPER #DW-100-24 (OR APPROVED SUBSTITUTION) FOR AUTOMATIC CONTROL OF LIGHTING. CONNECT LIGHTING IN SPACE AS SHOWN ON PLANS VIA WATSTOPPER LIGHTING POWER PACK #BPZ-200 (OR APPROVED SUBSTITUTION). PROVIDE ALL ADDITIONAL POWER PACKS, RELAYS, SENSORS AS REQUIRED FOR COMPLETE COVERAGE OF SPACE AND SWITCHING AS SHOWN ON PLANS. INSTALLATION SHALL COMPLY WITH THE INTERNATIONAL BUILDING CODE SECTION 107.2.1.



F1 BUILDING TYPE B - 2ND LEVEL - LIGHTING
1/8" = 1'-0"



K1 BUILDING TYPE B - GROUND LEVEL - LIGHTING
1/8" = 1'-0"

ISSUE HISTORY

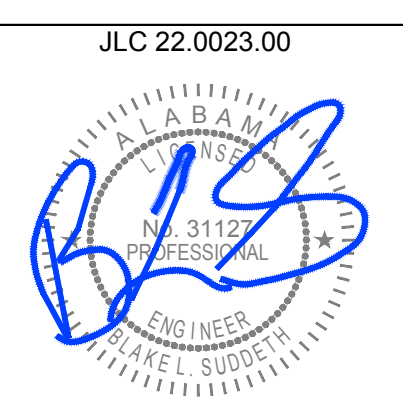
No.	Date	Description
1	04/15/22	Permit Submission

REVISION HISTORY

No.	Date	Description
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WWW.JLCENG.COM
CA NO. 4050 - E



THE MADISON
HUNTSVILLE, AL
BUILDING TYPE B
GROUND & 2ND LEVEL
LIGHTING
E2.04A

Drawn:	MJRSMB
Checked:	BLSA/B
Approved:	BLSA/B
Date:	04/15/2022
Project #:	5722

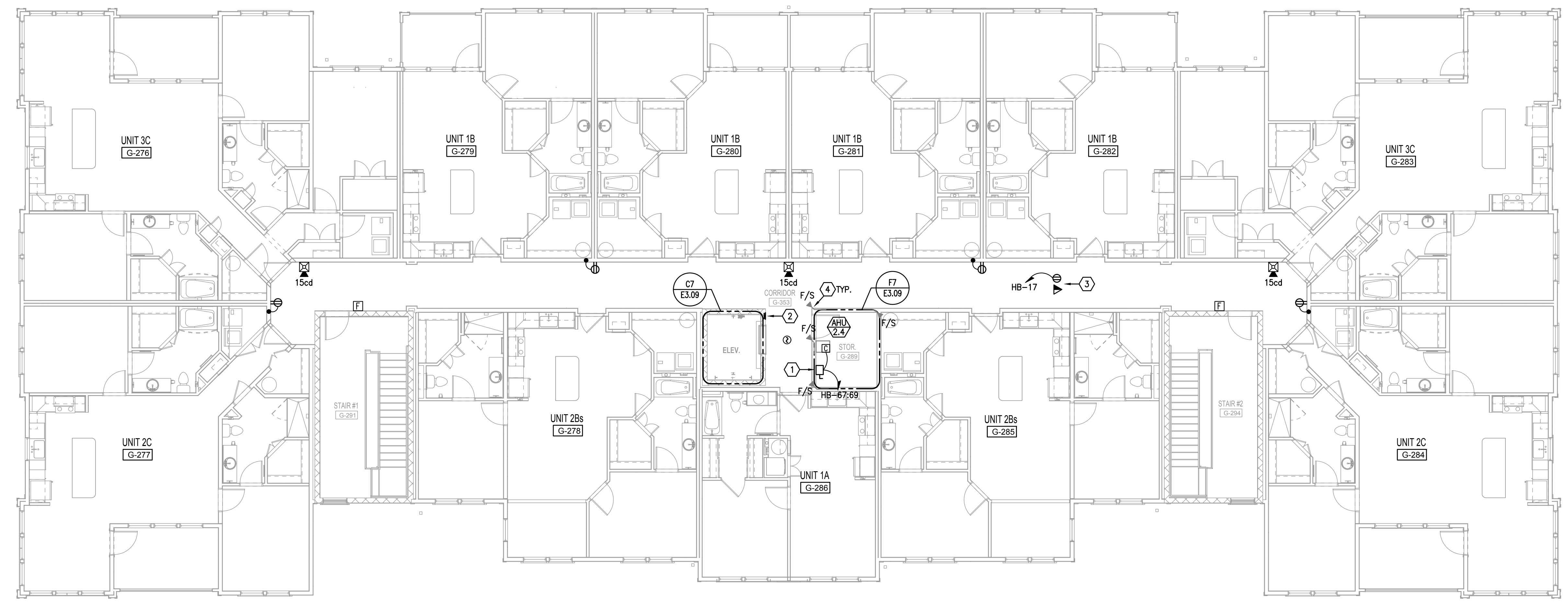


GENERAL NOTES:

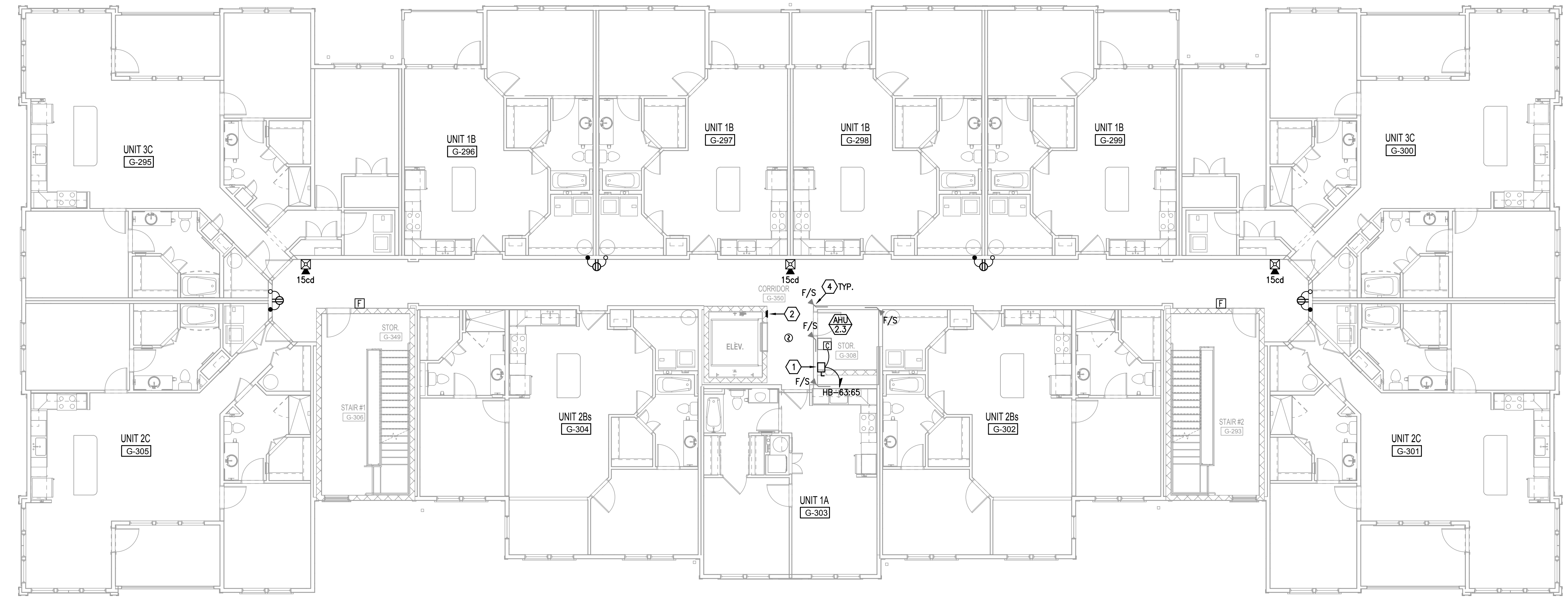
- A. DO NOT SCALE ELECTRICAL DRAWING FOR ANY DIMENSIONS.
- B. ALL WORK SHALL COMPLY WITH THE 2017 NATIONAL ELECTRICAL CODE, NATIONAL, STATE AND LOCAL CODES. PROVIDE GROUNDING AND BONDING PER NEC 250.
- C. SEE SINGLE LINE DIAGRAM FOR FEEDER WIRE AND CONDUIT SIZE. ALL CIRCUITS NOT SIZED ON DRAWING SHALL BE INSTALLED TO MEET MINIMUM SIZE REQUIRED BY NEC. ALL CONDUCTORS SHALL HAVE AN EQUIPMENT GROUND WIRE SIZED PER NEC.
- D. FIELD VERIFY EXACT LOCATION OF ALL DEVICES AND EQUIPMENT PRIOR TO ROUGH-IN.
- E. REFER TO ENLARGED TYPICAL UNIT PLANS FOR ALL ELECTRICAL IN UNITS.

REFERENCE NOTES: (X)

- ① ELECTRICAL CONTRACTOR SHALL COORDINATE DISCONNECT AND FUSE REQUIREMENTS FOR MECHANICAL UNIT WITH MECHANICAL CONTRACTOR AND EQUIPMENT MANUFACTURERS PRIOR TO ROUGH-IN AND PROVIDE AS REQUIRED. COORDINATE LOCATION OF DISCONNECT WITH OWNER AND MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. LOCATE AS REQUIRED TO MAINTAIN NEC CLEARANCES.
- ② PROVIDE TWO-WAY COMMUNICATION SYSTEM AND CABLE TO MAIN BASE STATION AS REQUIRED BY 2018 NFPA 70, AND 2018 NFPA 101 LIFE SAFETY CODE. COORDINATE LOCATION WITH OWNER AND AUTHORITY HAVING JURISDICTION PRIOR TO ROUGH-IN.
- ③ PROVIDE 120V RECEPTACLE AND DATA OUTLET IN ATTIC SPACE FOR CONNECTION OF WATER METER REPAIRERS. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.
- ④ PROVIDE 120V CIRCUIT FOR CONNECTION OF FIRE/SMOKE DAMPER. CONNECT TO CIRCUIT HA-39. COORDINATE LOCATION AND CONNECTION REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.



F1 BUILDING TYPE B - 4TH LEVEL - POWER & SYSTEMS
1/8" = 1'-0"



K1 BUILDING TYPE B - 3RD LEVEL - POWER & SYSTEMS
1/8" = 1'-0"

ISSUE HISTORY

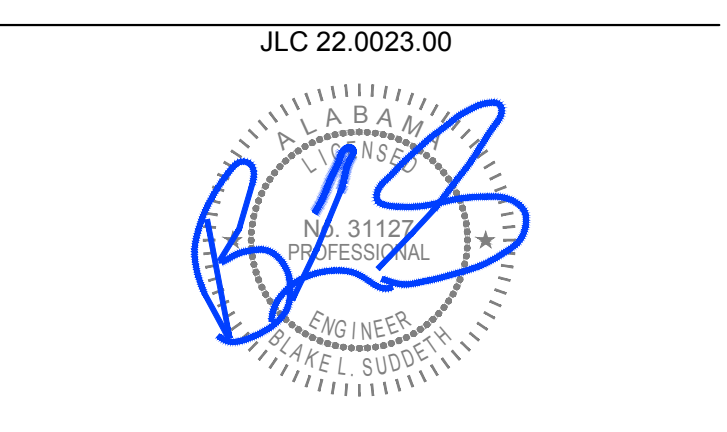
No.	Date	Description
1	04/15/22	Permit Submission

REVISION HISTORY

No.	Date	Description
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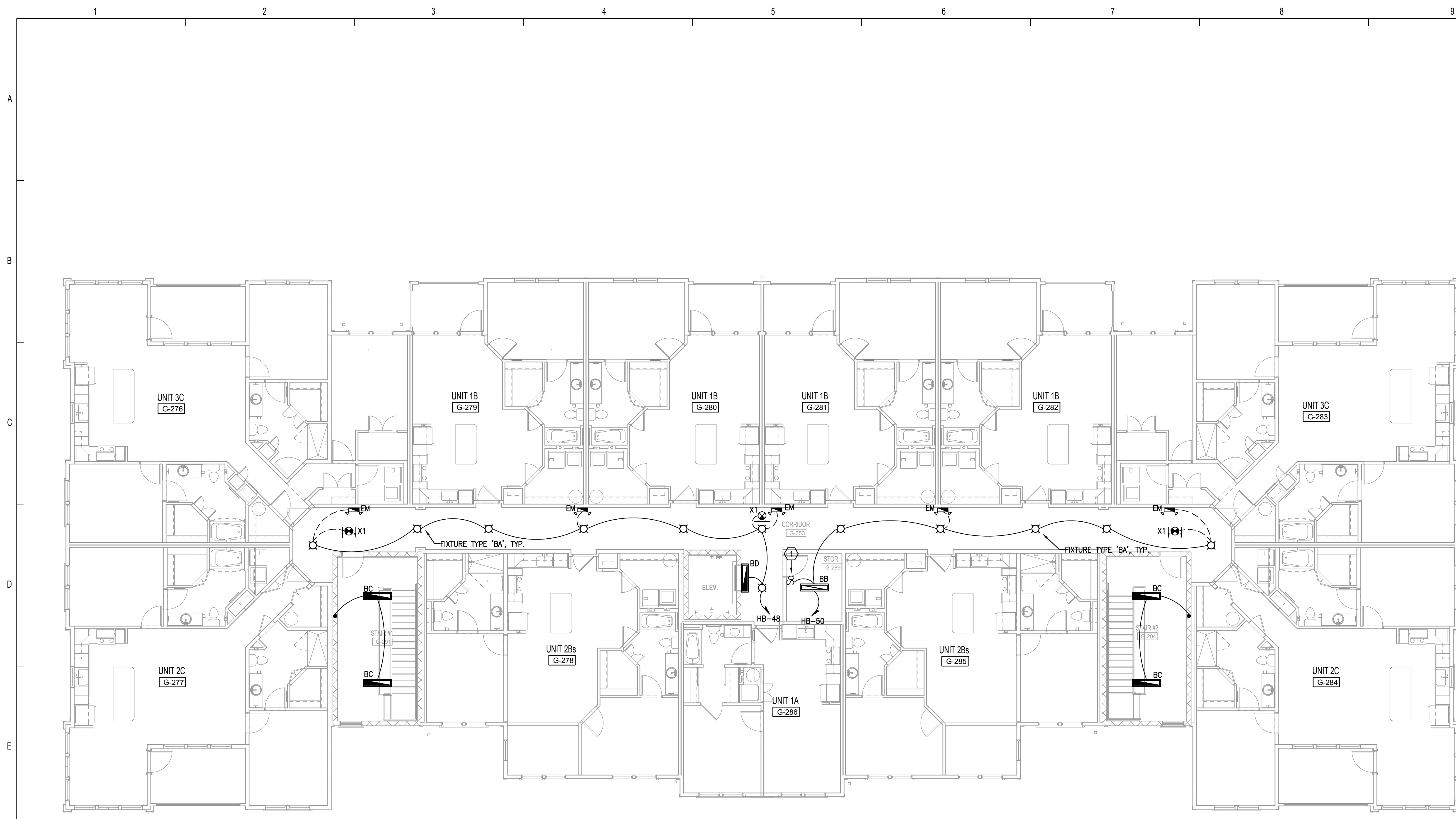
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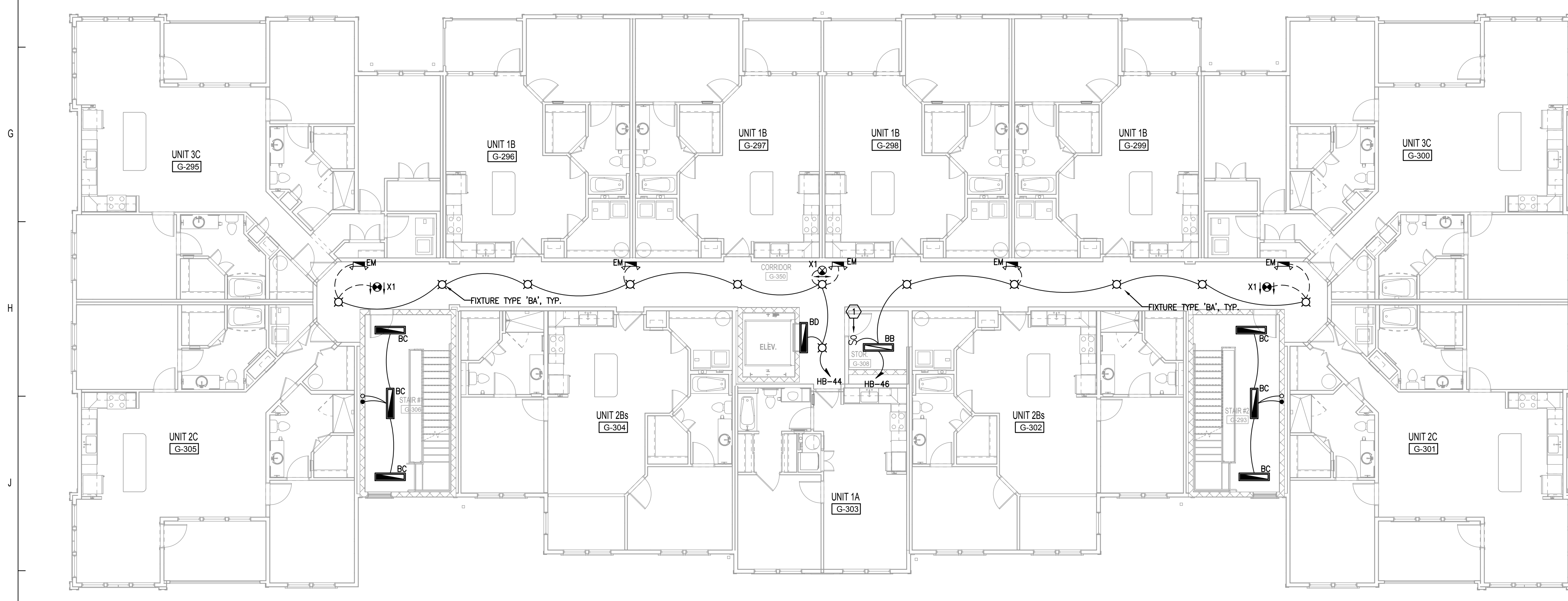


THE MADISON
HUNTSVILLE, AL
BUILDING TYPE B
3RD & 4TH LEVEL
POWER & SYSTEMS
E2.05

Drawn: M/R/S/M/B
Checked: BLS/A/B
Approved: BLS/A/B
Date: 04/15/2022
Project#: 5722



F1 BUILDING TYPE B - 4TH LEVEL - LIGHTING
1/8" = 1'-0"



K1 BUILDING TYPE B - 3RD LEVEL - LIGHTING
1/8" = 1'-0"

GENERAL NOTES:

- A. DO NOT SCALE ELECTRICAL DRAWING FOR ANY DIMENSIONS.
- B. ALL WORK SHALL COMPLY WITH THE 2017 NATIONAL ELECTRICAL CODE, NATIONAL, STATE AND LOCAL CODES. PROVIDE GROUNDING AND BONDING PER NEC 250.
- C. SEE SINGLE LINE DIAGRAM FOR FEEDER WIRE AND CONDUIT SIZE. ALL CIRCUITS NOT SIZED ON DRAWING SHALL BE INSTALLED TO MEET MINIMUM SIZE REQUIRED BY NEC. ALL CONDUCTORS SHALL HAVE AN EQUIPMENT GROUND WIRE SIZED PER NEC.
- D. FIELD VERIFY EXACT LOCATION OF ALL DEVICES AND EQUIPMENT PRIOR TO ROUGH IN.
- E. REFER TO ENLARGED TYPICAL UNIT PLANS FOR ALL ELECTRICAL IN UNITS.
- F. 'NL' NEXT TO FIXTURE DESIGNATES FIXTURE TO BE CONNECTED AHEAD OF AUTOMATIC CONTROLS TO OPERATE CONTINUOUSLY.
- G. ALL EMERGENCY LIGHTING FIXTURES AND EXIT SIGNS SHALL BE CONNECTED "HOT" TO THE INDICATED LOCAL LIGHTING CIRCUIT.
- H. EMERGENCY ILLUMINATION SHALL BE PROVIDED FOR A PERIOD OF 90 MINUTES IN THE EVENT OF FAILURE OF NORMAL LIGHTING. EMERGENCY LIGHTING FACILITIES SHALL BE ARRANGED TO PROVIDE INITIAL ILLUMINATION THAT IS AT LEAST AN AVERAGE OF 1 FOOTCANDLE (10 LUX) AND A MINIMUM AT ANY POINT OF 0.1 FOOTCANDLE (1 LUX) MEASURED ALONG THE PATH OF EGRESS AT FLOOR LEVEL. ILLUMINATION LEVELS SHALL BE PERMITTED TO DECLINE TO 0.6 FOOTCANDLE (6 LUX) AVERAGE AND A MINIMUM AT ANY POINT OF 0.06 FOOTCANDLE (0.6 LUX) AT THE END OF THE EMERGENCY LIGHTING TIME DURATION. A MAXIMUM-TO-MINIMUM ILLUMINATION UNIFORMITY RATIO OF 40:1 SHALL NOT BE EXCEEDED.

REFERENCE NOTES:

- ① PROVIDE WALL MOUNTED, DUAL TECHNOLOGY, LOW VOLTAGE VACANCY SENSOR, WATTSTOPPER #DW-100-24 (OR APPROVED SUBSTITUTION) FOR AUTOMATIC CONTROL OF LIGHTING. CONNECT LIGHTING IN SPACE AS SHOWN ON PLANS VIA WATTSTOPPER LIGHTING POWER PACK #BZ-200 (OR APPROVED SUBSTITUTION). PROVIDE ALL ADDITIONAL POWER PACKS, RELAYS, SENSORS AS REQUIRED FOR COMPLETE COVERAGE OF SPACE AND SWITCHING AS SHOWN ON PLANS. INSTALLATION SHALL COMPLY WITH THE INTERNATIONAL BUILDING CODE SECTION 107.2.1.
- ② NOT USED.



ISSUE HISTORY

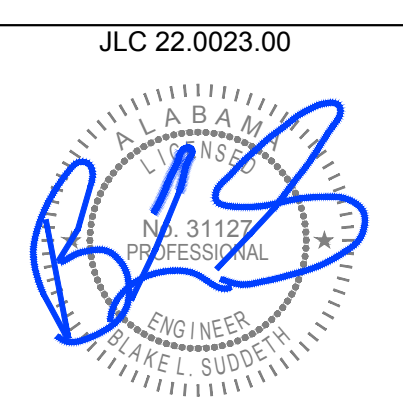
No.	Date	Description
1	04/15/22	Permit Submission

REVISION HISTORY

No.	Date	Description

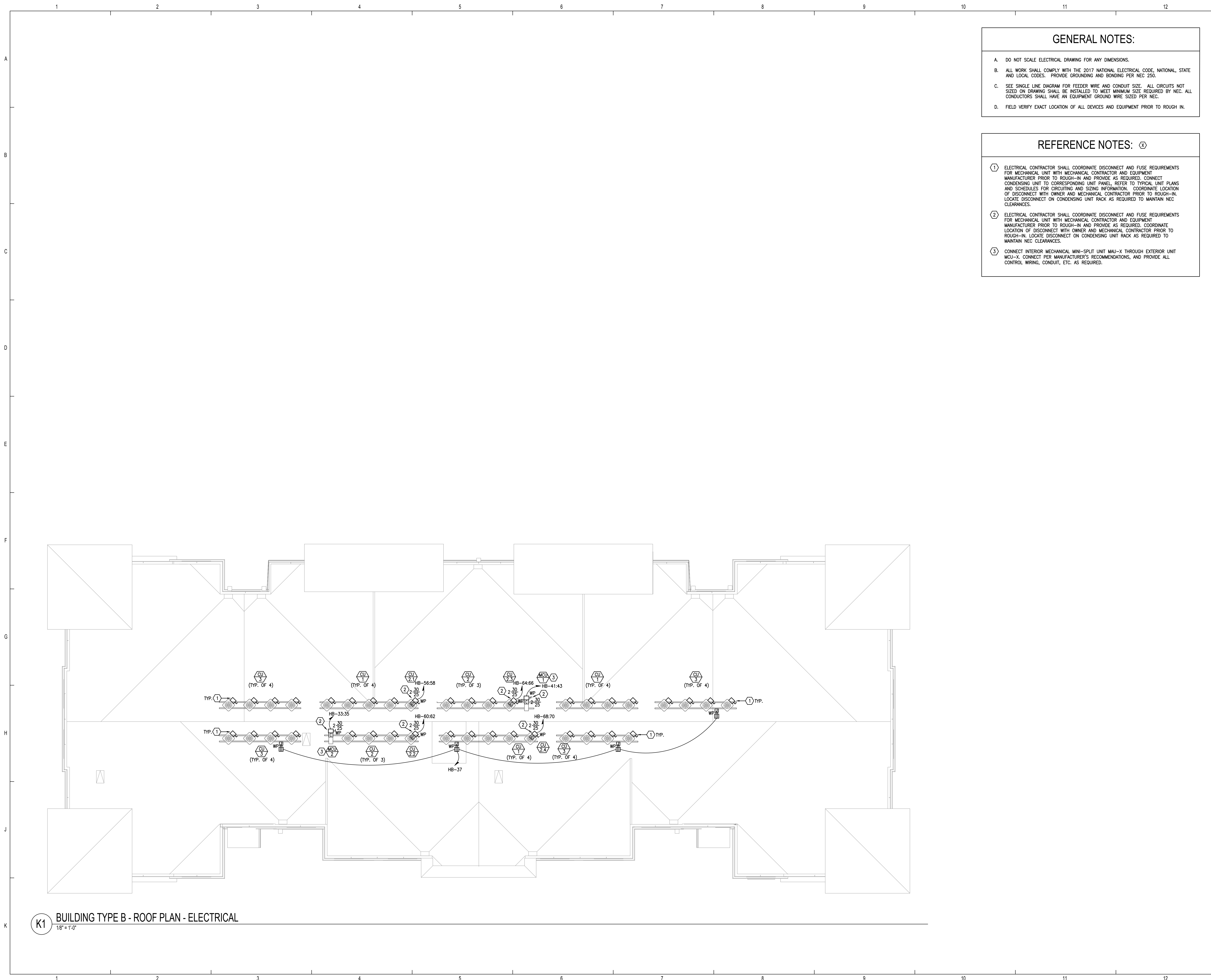
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THE MADISON
HUNTSVILLE, AL
BUILDING TYPE B
3RD & 4TH LEVEL
LIGHTING
E2.05A

Drawn:	M/R/SMB
Checked:	BLSA/B
Approved:	BLSA/B
Date:	04/15/2022
Project #:	5722



GENERAL NOTES:

- A. DO NOT SCALE ELECTRICAL DRAWING FOR ANY DIMENSIONS.
- B. ALL WORK SHALL COMPLY WITH THE 2017 NATIONAL ELECTRICAL CODE, NATIONAL, STATE AND LOCAL CODES. PROVIDE GROUNDING AND BONDING PER NEC 250.
- C. SEE SINGLE LINE DIAGRAM FOR FEEDER WIRE AND CONDUIT SIZE. ALL CIRCUITS NOT SIZED ON DRAWING SHALL BE INSTALLED TO MEET MINIMUM SIZE REQUIRED BY NEC. ALL CONDUCTORS SHALL HAVE AN EQUIPMENT GROUND WIRE SIZED PER NEC.
- D. FIELD VERIFY EXACT LOCATION OF ALL DEVICES AND EQUIPMENT PRIOR TO ROUGH IN.

REFERENCE NOTES: (X)

- ① ELECTRICAL CONTRACTOR SHALL COORDINATE DISCONNECT AND FUSE REQUIREMENTS FOR MECHANICAL UNIT WITH MECHANICAL CONTRACTOR AND EQUIPMENT MANUFACTURER PRIOR TO ROUGH-IN AND PROVIDE AS REQUIRED. CONNECT CONDENSING UNIT TO CORRESPONDING UNIT PANEL. REFER TO TYPICAL UNIT PLANS AND SCHEDULES FOR CIRCUITING AND SIZING INFORMATION. COORDINATE LOCATION OF DISCONNECT WITH OWNER AND MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. LOCATE DISCONNECT ON CONDENSING UNIT RACK AS REQUIRED TO MAINTAIN NEC CLEARANCES.
- ② ELECTRICAL CONTRACTOR SHALL COORDINATE DISCONNECT AND FUSE REQUIREMENTS FOR MECHANICAL UNIT WITH MECHANICAL CONTRACTOR AND EQUIPMENT MANUFACTURER PRIOR TO ROUGH-IN AND PROVIDE AS REQUIRED. COORDINATE LOCATION OF DISCONNECT WITH OWNER AND MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. LOCATE DISCONNECT ON CONDENSING UNIT RACK AS REQUIRED TO MAINTAIN NEC CLEARANCES.
- ③ CONNECT INTERIOR MECHANICAL MINI-SPLIT UNIT MAU-X THROUGH EXTERIOR UNIT MCU-X. CONNECT PER MANUFACTURER'S RECOMMENDATIONS, AND PROVIDE ALL CONTROL WIRING, CONDUIT, ETC. AS REQUIRED.



ISSUE HISTORY

No.	Date	Description
1	04/15/22	Permit Submission

REVISION HISTORY

No.	Date	Description



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CA NO. 4050 - 1

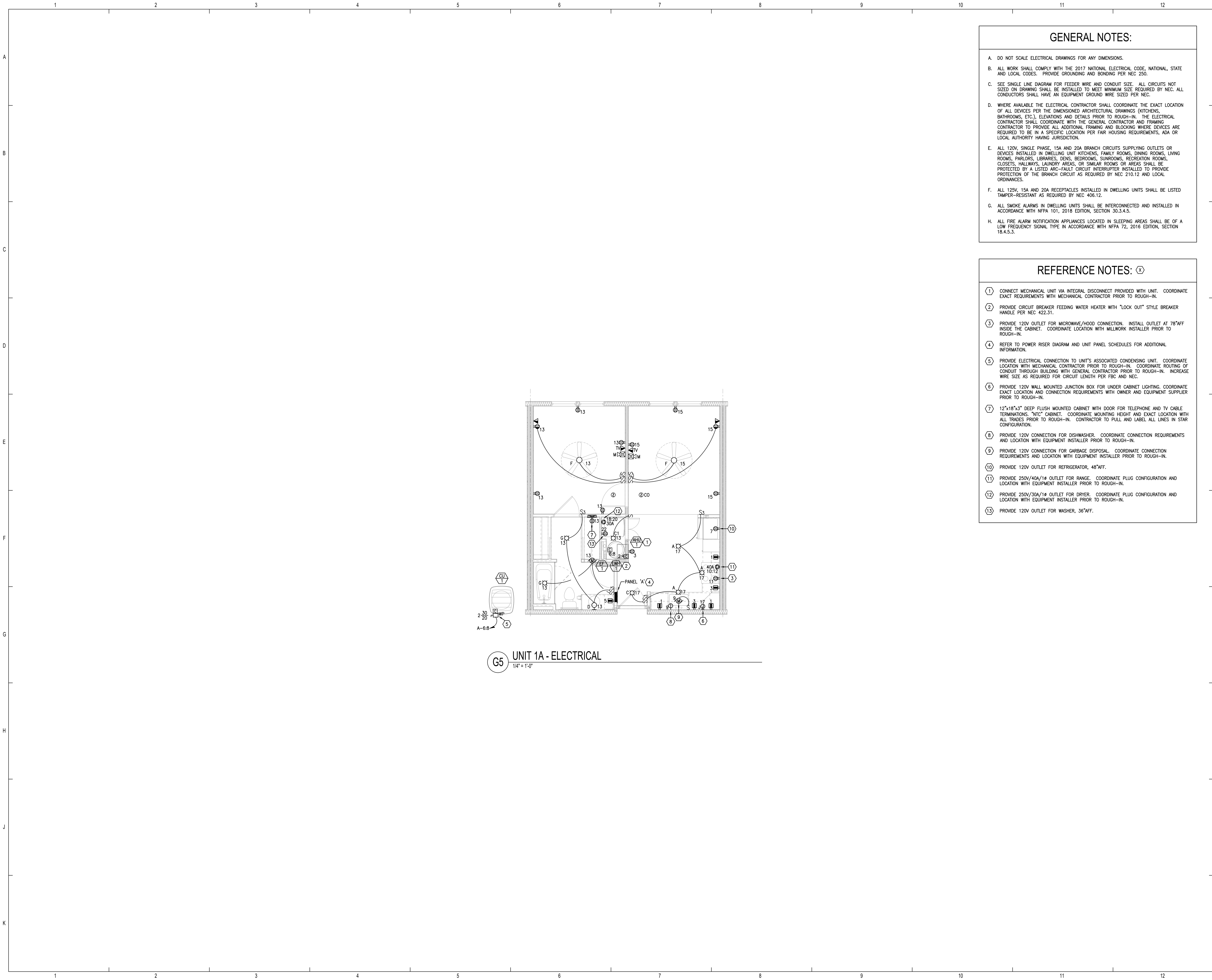
JLC 22.0023.00



Drawn	MJRSMB
Checked	BLSA/B
Approved	BLSA/B
Date	04/15/2022
Project #	572

THE MADISON
HUNTSVILLE, AL
**BUILDING TYPE B
ROOF PLAN
ELECTRICAL**

E2.06



G5 UNIT 1A - ELECTRICAL
1/4" = 1'-0"

GENERAL NOTES:

- A. DO NOT SCALE ELECTRICAL DRAWINGS FOR ANY DIMENSIONS.
- B. ALL WORK SHALL COMPLY WITH THE 2017 NATIONAL ELECTRICAL CODE, NATIONAL STATE AND LOCAL CODES. PROVIDE GROUNDING AND BONDING PER NEC 250.
- C. SEE SINGLE LINE DIAGRAM FOR FEEDER WIRE AND CONDUIT SIZE. ALL CIRCUITS NOT SIZED ON DRAWING SHALL BE INSTALLED TO MEET MINIMUM SIZE REQUIRED BY NEC. ALL CONDUCTORS SHALL HAVE AN EQUIPMENT GROUND WIRE SIZED PER NEC.
- D. WHERE AVAILABLE THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF ALL DEVICES PER THE DIMENSIONED ARCHITECTURAL DRAWINGS (KITCHENS, BATHROOMS, ETC.), ELEVATIONS AND DETAILS PRIOR TO ROUGH-IN. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND FRAMING CONTRACTOR TO PROVIDE ALL ADDITIONAL FRAMING AND BLOCKING WHERE DEVICES ARE REQUIRED TO BE IN A SPECIFIC LOCATION PER FAIR HOUSING REQUIREMENTS, ADA OR LOCAL AUTHORITY HAVING JURISDICTION.
- E. ALL 120V, SINGLE PHASE, 15A AND 20A BRANCH CIRCUITS SUPPLYING OUTLETS OR DEVICES INSTALLED IN DWELLING UNIT KITCHENS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, LAUNDRY AREAS, OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT AS REQUIRED BY NEC 210.12 AND LOCAL ORDINANCES.
- F. ALL 125V, 15A AND 20A RECEPTACLES INSTALLED IN DWELLING UNITS SHALL BE LISTED TAMPER-RESISTANT AS REQUIRED BY NEC 406.12.
- G. ALL SMOKE ALARMS IN DWELLING UNITS SHALL BE INTERCONNECTED AND INSTALLED IN ACCORDANCE WITH NFPA 101, 2018 EDITION, SECTION 30.3.4.5.
- H. ALL FIRE ALARM NOTIFICATION APPLIANCES LOCATED IN SLEEPING AREAS SHALL BE OF A LOW FREQUENCY SIGNAL TYPE IN ACCORDANCE WITH NFPA 72, 2016 EDITION, SECTION 18.4.5.3.

REFERENCE NOTES:

- ① CONNECT MECHANICAL UNIT VIA INTEGRAL DISCONNECT PROVIDED WITH UNIT. COORDINATE EXACT REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- ② PROVIDE CIRCUIT BREAKER FEEDING WATER HEATER WITH "LOCK OUT" STYLE BREAKER HANDLE PER NEC 422.31.
- ③ PROVIDE 120V OUTLET FOR MICROWAVE/HOOD CONNECTION. INSTALL OUTLET AT 78" AFF INSIDE THE CABINET. COORDINATE LOCATION WITH MILLWORK INSTALLER PRIOR TO ROUGH-IN.
- ④ REFER TO POWER RISER DIAGRAM AND UNIT PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
- ⑤ PROVIDE ELECTRICAL CONNECTION TO UNIT'S ASSOCIATED CONDENSING UNIT. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. COORDINATE ROUTING OF CONDUIT THROUGH BUILDING WITH GENERAL CONTRACTOR PRIOR TO ROUGH-IN. INCREASE WIRE SIZE AS REQUIRED FOR CIRCUIT LENGTH PER NEC AND NEC.
- ⑥ PROVIDE 120V WALL MOUNTED JUNCTION BOX FOR UNDER CABINET LIGHTING. COORDINATE EXACT LOCATION AND CONNECTION REQUIREMENTS WITH OWNER AND EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
- ⑦ 12"x18"x3" DEEP FLUSH MOUNTED CABINET WITH DOOR FOR TELEPHONE AND TV CABLE TERMINATIONS. "NTC" CABINET. COORDINATE MOUNTING HEIGHT AND EXACT LOCATION WITH ALL TRADES PRIOR TO ROUGH-IN. CONTRACTOR TO PULL AND LABEL ALL LINES IN STAR CONFIGURATION.
- ⑧ PROVIDE 120V CONNECTION FOR DISHWASHER. COORDINATE CONNECTION REQUIREMENTS AND LOCATION WITH EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.
- ⑨ PROVIDE 120V CONNECTION FOR GARBAGE DISPOSAL. COORDINATE CONNECTION REQUIREMENTS AND LOCATION WITH EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.
- ⑩ PROVIDE 120V OUTLET FOR REFRIGERATOR, 48" AFF.
- ⑪ PROVIDE 250V/40A/1Ø OUTLET FOR RANGE. COORDINATE PLUG CONFIGURATION AND LOCATION WITH EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.
- ⑫ PROVIDE 250V/30A/1Ø OUTLET FOR DRYER. COORDINATE PLUG CONFIGURATION AND LOCATION WITH EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.
- ⑬ PROVIDE 120V OUTLET FOR WASHER, 36" AFF.



ISSUE HISTORY

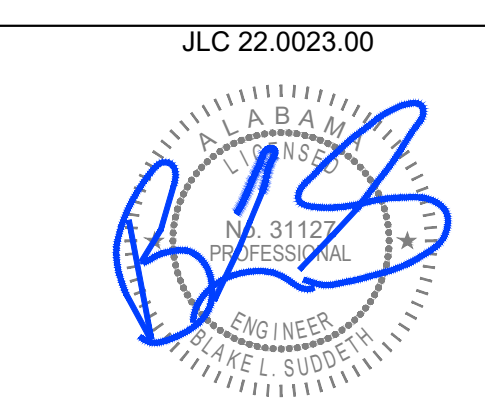
No.	Date	Description
1	04/15/22	Permit Submission

REVISION HISTORY

No.	Date	Description

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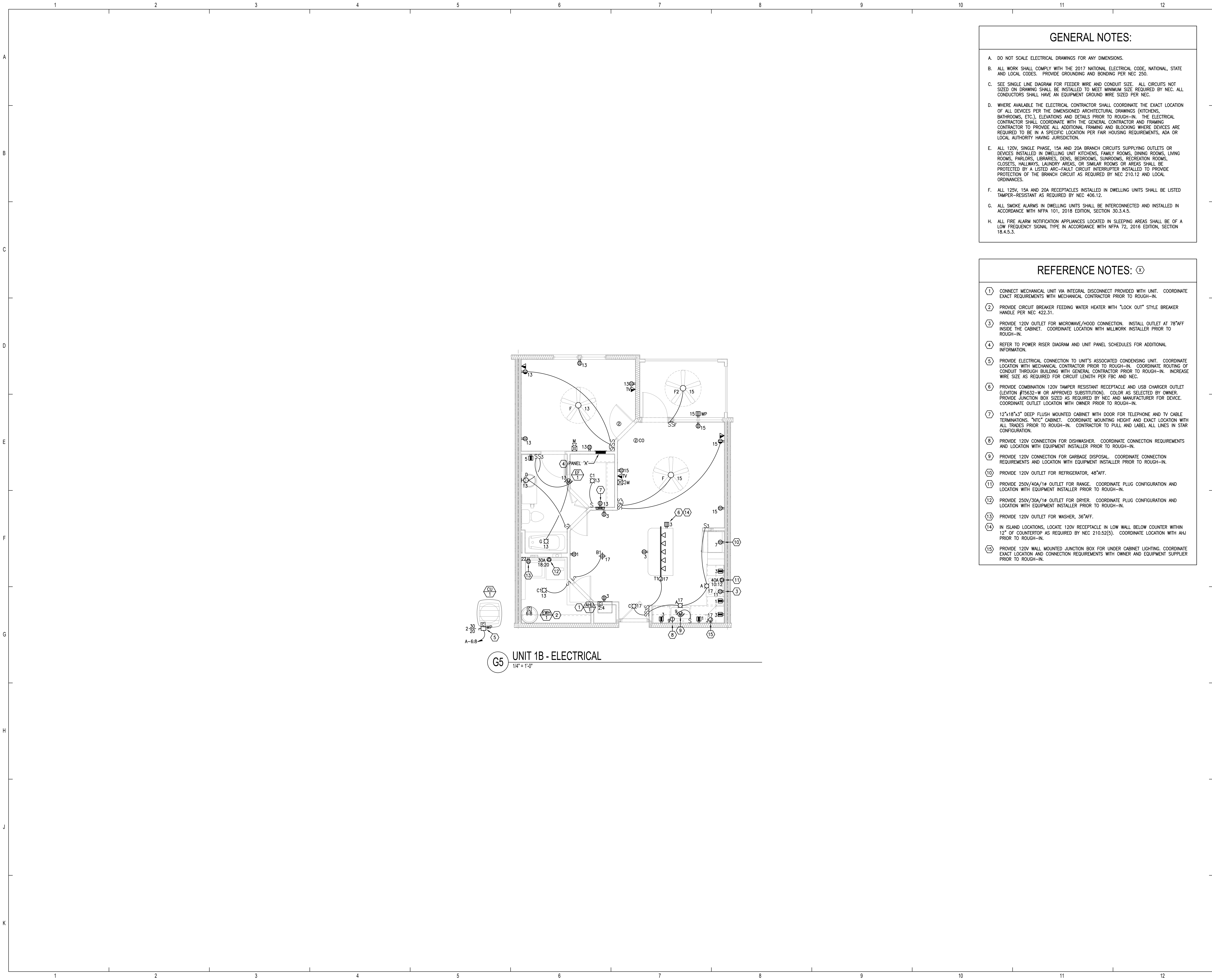
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TEL: 321.972.4464
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CA NO. 40550 - E



THE MADISON	Drawn: M,RSMB
HUNTSVILLE, AL	Checked: BLS,ALB
	Approved: BLS,ALB
	Date: 04/15/2022
	Project: 5722

**ENLARGED UNIT PLANS
ELECTRICAL**

E3.01



G5 UNIT 1B - ELECTRICAL
1/4" = 1'-0"

GENERAL NOTES:

- A. DO NOT SCALE ELECTRICAL DRAWINGS FOR ANY DIMENSIONS.
- B. ALL WORK SHALL COMPLY WITH THE 2017 NATIONAL ELECTRICAL CODE, NATIONAL STATE AND LOCAL CODES. PROVIDE GROUNDING AND BONDING PER NEC 250.
- C. SEE SINGLE LINE DIAGRAM FOR FEEDER WIRE AND CONDUIT SIZE. ALL CIRCUITS NOT SIZED ON DRAWING SHALL BE INSTALLED TO MEET MINIMUM SIZE REQUIRED BY NEC. ALL CONDUCTORS SHALL HAVE AN EQUIPMENT GROUND WIRE SIZED PER NEC.
- D. WHERE AVAILABLE THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF ALL DEVICES PER THE DIMENSIONED ARCHITECTURAL DRAWINGS (KITCHENS, BATHROOMS, ETC.), ELEVATIONS AND DETAILS PRIOR TO ROUGH-IN. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND FRAMING CONTRACTOR TO PROVIDE ALL ADDITIONAL FRAMING AND BLOCKING WHERE DEVICES ARE REQUIRED TO BE IN A SPECIFIC LOCATION PER FAIR HOUSING REQUIREMENTS, ADA OR LOCAL AUTHORITY HAVING JURISDICTION.
- E. ALL 120V, SINGLE PHASE, 15A AND 20A BRANCH CIRCUITS SUPPLYING OUTLETS OR DEVICES INSTALLED IN DWELLING UNIT KITCHENS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, LAUNDRY AREAS, OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY A LISTED ARC-FULT CIRCUIT INTERRUPTER INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT AS REQUIRED BY NEC 210.12 AND LOCAL ORDINANCES.
- F. ALL 120V, 15A AND 20A RECEPTACLES INSTALLED IN DWELLING UNITS SHALL BE LISTED TAMPER-RESISTANT AS REQUIRED BY NEC 406.12.
- G. ALL SMOKE ALARMS IN DWELLING UNITS SHALL BE INTERCONNECTED AND INSTALLED IN ACCORDANCE WITH NFPA 101, 2018 EDITION, SECTION 30.3.4.5.
- H. ALL FIRE ALARM NOTIFICATION APPLIANCES LOCATED IN SLEEPING AREAS SHALL BE OF A LOW FREQUENCY SIGNAL TYPE IN ACCORDANCE WITH NFPA 72, 2016 EDITION, SECTION 18.4.5.3.

REFERENCE NOTES: (X)

- ① CONNECT MECHANICAL UNIT VIA INTEGRAL DISCONNECT PROVIDED WITH UNIT. COORDINATE EXACT REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- ② PROVIDE CIRCUIT BREAKER FEEDING WATER HEATER WITH "LOCK OUT" STYLE BREAKER HANDLE PER NEC 422.31.
- ③ PROVIDE 120V OUTLET FOR MICROWAVE/HOOD CONNECTION. INSTALL OUTLET AT 78" AFF INSIDE THE CABINET. COORDINATE LOCATION WITH MILLWORK INSTALLER PRIOR TO ROUGH-IN.
- ④ REFER TO POWER RISER DIAGRAM AND UNIT PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
- ⑤ PROVIDE ELECTRICAL CONNECTION TO UNIT'S ASSOCIATED CONDENSING UNIT. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. COORDINATE ROUTING OF CONDUIT THROUGH BUILDING WITH GENERAL CONTRACTOR PRIOR TO ROUGH-IN. INCREASE WIRE SIZE AS REQUIRED FOR CIRCUIT LENGTH PER FBC AND NEC.
- ⑥ PROVIDE COMBINATION 120V TAMPER RESISTANT RECEPTACLE AND USB CHARGER OUTLET (LEVITON #15632-W OR APPROVED SUBSTITUTION). COLOR AS SELECTED BY OWNER. PROVIDE JUNCTION BOX SIZED AS REQUIRED BY NEC AND MANUFACTURER FOR DEVICE. COORDINATE OUTLET LOCATION WITH OWNER PRIOR TO ROUGH-IN.
- ⑦ 12"x18"x3" DEEP FLUSH MOUNTED CABINET WITH DOOR FOR TELEPHONE AND TV CABLE TERMINATIONS. "NFC" CABINET. COORDINATE MOUNTING HEIGHT AND EXACT LOCATION WITH ALL TRADES PRIOR TO ROUGH-IN. CONTRACTOR TO PULL AND LABEL ALL LINES IN STAR CONFIGURATION.
- ⑧ PROVIDE 120V CONNECTION FOR DISHWASHER. COORDINATE CONNECTION REQUIREMENTS AND LOCATION WITH EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.
- ⑨ PROVIDE 120V CONNECTION FOR GARBAGE DISPOSAL. COORDINATE CONNECTION REQUIREMENTS AND LOCATION WITH EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.
- ⑩ PROVIDE 120V OUTLET FOR REFRIGERATOR, 48" AFF.
- ⑪ PROVIDE 250V/40A/1Ø OUTLET FOR RANGE. COORDINATE PLUG CONFIGURATION AND LOCATION WITH EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.
- ⑫ PROVIDE 250V/30A/1Ø OUTLET FOR DRYER. COORDINATE PLUG CONFIGURATION AND LOCATION WITH EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.
- ⑬ PROVIDE 120V OUTLET FOR WASHER, 36" AFF.
- ⑭ IN ISLAND LOCATIONS, LOCATE 120V RECEPTACLE IN LOW WALL BELOW COUNTER WITHIN 12" OF COUNTERTOP AS REQUIRED BY NEC 210.52(5). COORDINATE LOCATION WITH AHJ PRIOR TO ROUGH-IN.
- ⑮ PROVIDE 120V WALL MOUNTED JUNCTION BOX FOR UNDER CABINET LIGHTING. COORDINATE EXACT LOCATION AND CONNECTION REQUIREMENTS WITH OWNER AND EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.



ISSUE HISTORY

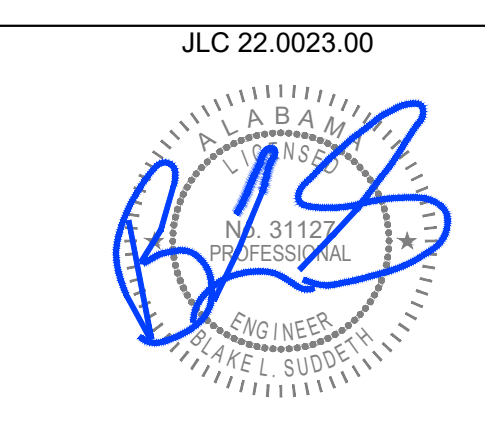
No.	Date	Description
1	04/15/22	Permit Submission

REVISION HISTORY

No.	Date	Description

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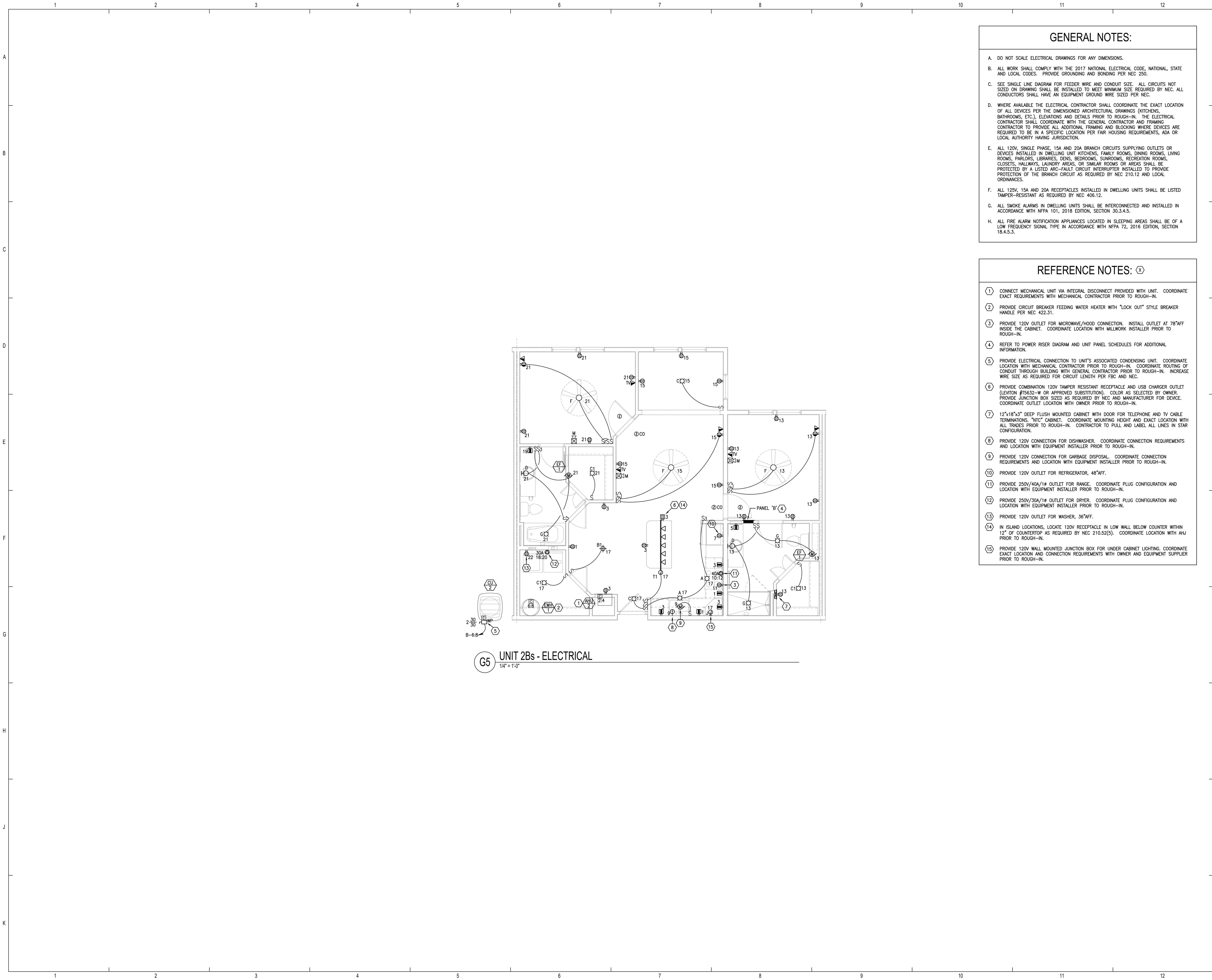


Drawn:	M,RSMB
Checked:	BLSA,B
Approved:	BLSA,B
Date:	04/15/2022
Project:	572

THE MADISON
HUNTSVILLE, AL

**ENLARGED UNIT PLANS
ELECTRICAL**

E3.02



G5 UNIT 2Bs - ELECTRICAL
1/4" = 1'-0"

GENERAL NOTES:

- A. DO NOT SCALE ELECTRICAL DRAWINGS FOR ANY DIMENSIONS.
- B. ALL WORK SHALL COMPLY WITH THE 2017 NATIONAL ELECTRICAL CODE, NATIONAL, STATE AND LOCAL CODES. PROVIDE GROUNDING AND BONDING PER NEC 250.
- C. SEE SINGLE LINE DIAGRAM FOR FEEDER WIRE AND CONDUIT SIZE. ALL CIRCUITS NOT SIZED ON DRAWING SHALL BE INSTALLED TO MEET MINIMUM SIZE REQUIRED BY NEC. ALL CONDUCTORS SHALL HAVE AN EQUIPMENT GROUND WIRE SIZED PER NEC.
- D. WHERE AVAILABLE THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF ALL DEVICES PER THE DIMENSIONED ARCHITECTURAL DRAWINGS (KITCHENS, BATHROOMS, ETC.), ELEVATIONS AND DETAILS PRIOR TO ROUGH-IN. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND FRAMING CONTRACTOR TO PROVIDE ALL ADDITIONAL FRAMING AND BLOCKING WHERE DEVICES ARE REQUIRED TO BE IN A SPECIFIC LOCATION PER FAIR HOUSING REQUIREMENTS, ADA OR LOCAL AUTHORITY HAVING JURISDICTION.
- E. ALL 120V, SINGLE PHASE, 15A AND 20A BRANCH CIRCUITS SUPPLYING OUTLETS OR DEVICES INSTALLED IN DWELLING UNIT KITCHENS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, LAUNDRY AREAS, OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY A LISTED AFCI-FULL CIRCUIT INTERRUPTER INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT AS REQUIRED BY NEC 210.12 AND LOCAL ORDINANCES.
- F. ALL 120V, 15A AND 20A RECEPTACLES INSTALLED IN DWELLING UNITS SHALL BE LISTED TAMPER-RESISTANT AS REQUIRED BY NEC 406.12.
- G. ALL SMOKE ALARMS IN DWELLING UNITS SHALL BE INTERCONNECTED AND INSTALLED IN ACCORDANCE WITH NFPA 101, 2018 EDITION, SECTION 30.3.4.5.
- H. ALL FIRE ALARM NOTIFICATION APPLIANCES LOCATED IN SLEEPING AREAS SHALL BE OF A LOW FREQUENCY SIGNAL TYPE IN ACCORDANCE WITH NFPA 72, 2016 EDITION, SECTION 18.4.5.3.

REFERENCE NOTES:

- ① CONNECT MECHANICAL UNIT VIA INTEGRAL DISCONNECT PROVIDED WITH UNIT. COORDINATE EXACT REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- ② PROVIDE CIRCUIT BREAKER FEEDING WATER HEATER WITH "LOCK OUT" STYLE BREAKER HANDLE PER NEC 422.31.
- ③ PROVIDE 120V OUTLET FOR MICROWAVE/HOOD CONNECTION. INSTALL OUTLET AT 78" AFF INSIDE THE CABINET. COORDINATE LOCATION WITH MILLWORK INSTALLER PRIOR TO ROUGH-IN.
- ④ REFER TO POWER RISER DIAGRAM AND UNIT PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
- ⑤ PROVIDE ELECTRICAL CONNECTION TO UNIT'S ASSOCIATED CONDENSING UNIT. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. COORDINATE ROUTING OF CONDUIT THROUGH BUILDING WITH GENERAL CONTRACTOR PRIOR TO ROUGH-IN. INCREASE WIRE SIZE AS REQUIRED FOR CIRCUIT LENGTH PER FBC AND NEC.
- ⑥ PROVIDE COMBINATION 120V TAMPER RESISTANT RECEPTACLE AND USB CHARGER OUTLET (LEVITON #15632-W OR APPROVED SUBSTITUTION). COLOR AS SELECTED BY OWNER. PROVIDE JUNCTION BOX SIZED AS REQUIRED BY NEC AND MANUFACTURER FOR DEVICE. COORDINATE OUTLET LOCATION WITH OWNER PRIOR TO ROUGH-IN.
- ⑦ 12"X18"X3" DEEP FLUSH MOUNTED CABINET WITH DOOR FOR TELEPHONE AND TV CABLE TERMINATIONS. "NTO" CABINET. COORDINATE MOUNTING HEIGHT AND EXACT LOCATION WITH ALL TRADES PRIOR TO ROUGH-IN. CONTRACTOR TO PULL AND LABEL ALL LINES IN STAR CONFIGURATION.
- ⑧ PROVIDE 120V CONNECTION FOR DISHWASHER. COORDINATE CONNECTION REQUIREMENTS AND LOCATION WITH EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.
- ⑨ PROVIDE 120V CONNECTION FOR GARBAGE DISPOSAL. COORDINATE CONNECTION REQUIREMENTS AND LOCATION WITH EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.
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ISSUE HISTORY

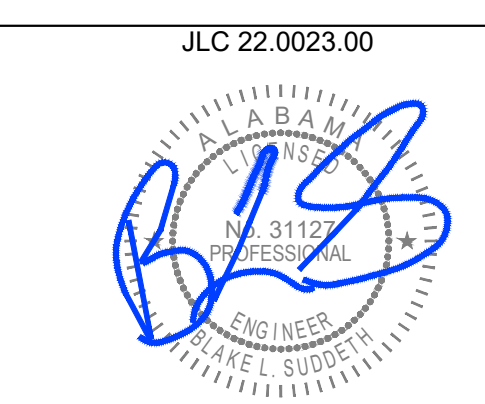
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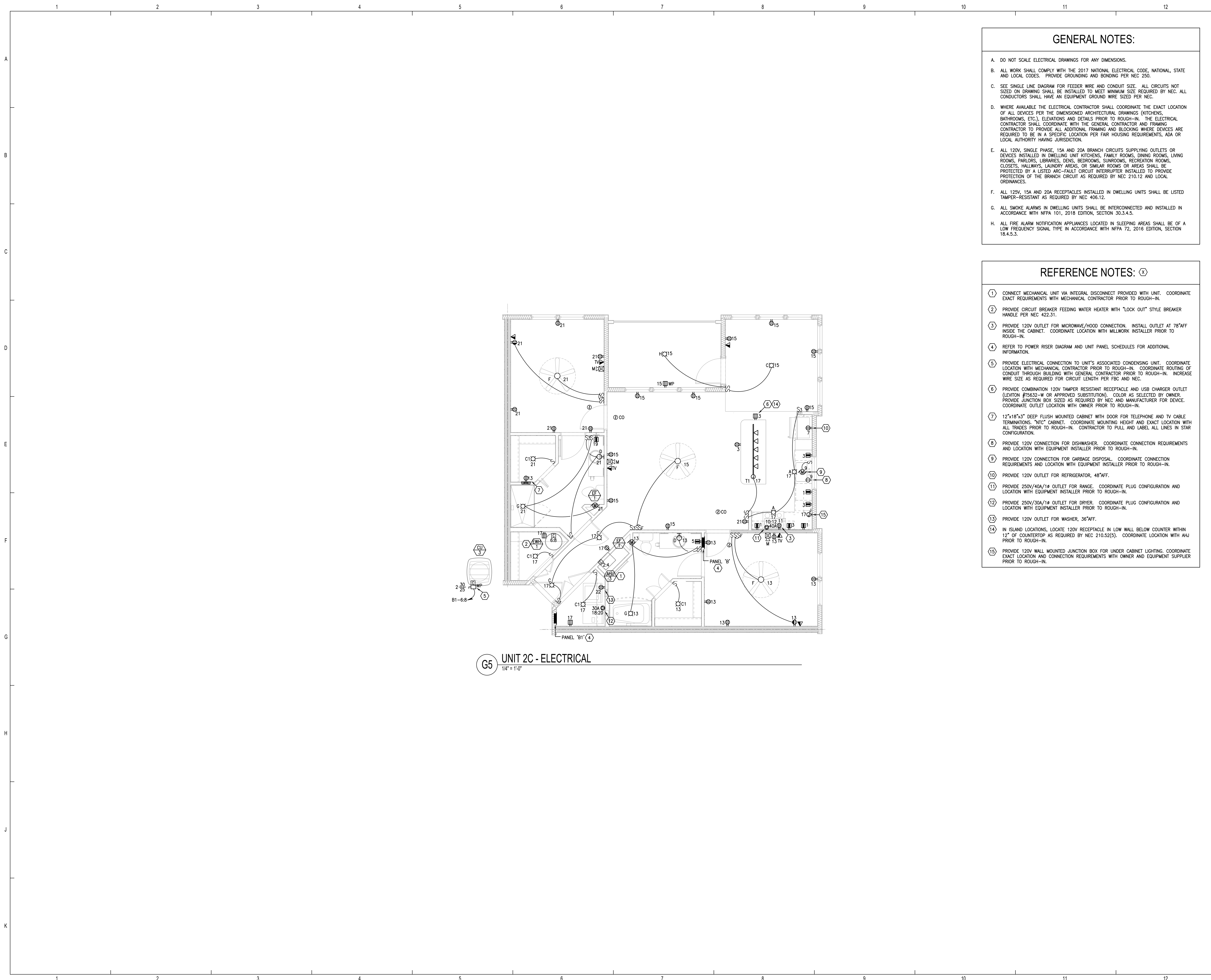


Drawn:	M,RSMB
Checked:	BLSA,B
Approved:	BLSA,B
Date:	04/15/2022
Project:	572

THE MADISON
HUNTSVILLE, AL

**ENLARGED UNIT PLANS
ELECTRICAL**

E3.05



G5 UNIT 2C - ELECTRICAL
1/4" = 1'-0"

GENERAL NOTES:

- A. DO NOT SCALE ELECTRICAL DRAWINGS FOR ANY DIMENSIONS.
- B. ALL WORK SHALL COMPLY WITH THE 2017 NATIONAL ELECTRICAL CODE, NATIONAL STATE AND LOCAL CODES. PROVIDE GROUNDING AND BONDING PER NEC 250.
- C. SEE SINGLE LINE DIAGRAM FOR FEEDER WIRE AND CONDUIT SIZE. ALL CIRCUITS NOT SIZED ON DRAWING SHALL BE INSTALLED TO MEET MINIMUM SIZE REQUIRED BY NEC. ALL CONDUCTORS SHALL HAVE AN EQUIPMENT GROUND WIRE SIZED PER NEC.
- D. WHERE AVAILABLE THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF ALL DEVICES PER THE DIMENSIONED ARCHITECTURAL DRAWINGS (KITCHENS, BATHROOMS, ETC.). ELEVATIONS AND DETAILS PRIOR TO ROUGH-IN. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND FRAMING CONTRACTOR TO PROVIDE ALL ADDITIONAL FRAMING AND BLOCKING WHERE DEVICES ARE REQUIRED TO BE IN A SPECIFIC LOCATION PER FAIR HOUSING REQUIREMENTS, ADA OR LOCAL AUTHORITY HAVING JURISDICTION.
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- G. ALL SMOKE ALARMS IN DWELLING UNITS SHALL BE INTERCONNECTED AND INSTALLED IN ACCORDANCE WITH NFPA 101, 2018 EDITION, SECTION 30.3.4.5.
- H. ALL FIRE ALARM NOTIFICATION APPLIANCES LOCATED IN SLEEPING AREAS SHALL BE OF A LOW FREQUENCY SIGNAL TYPE IN ACCORDANCE WITH NFPA 72, 2016 EDITION, SECTION 18.4.5.3.

REFERENCE NOTES: (X)

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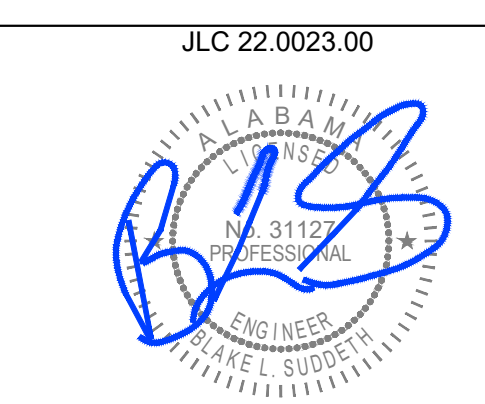
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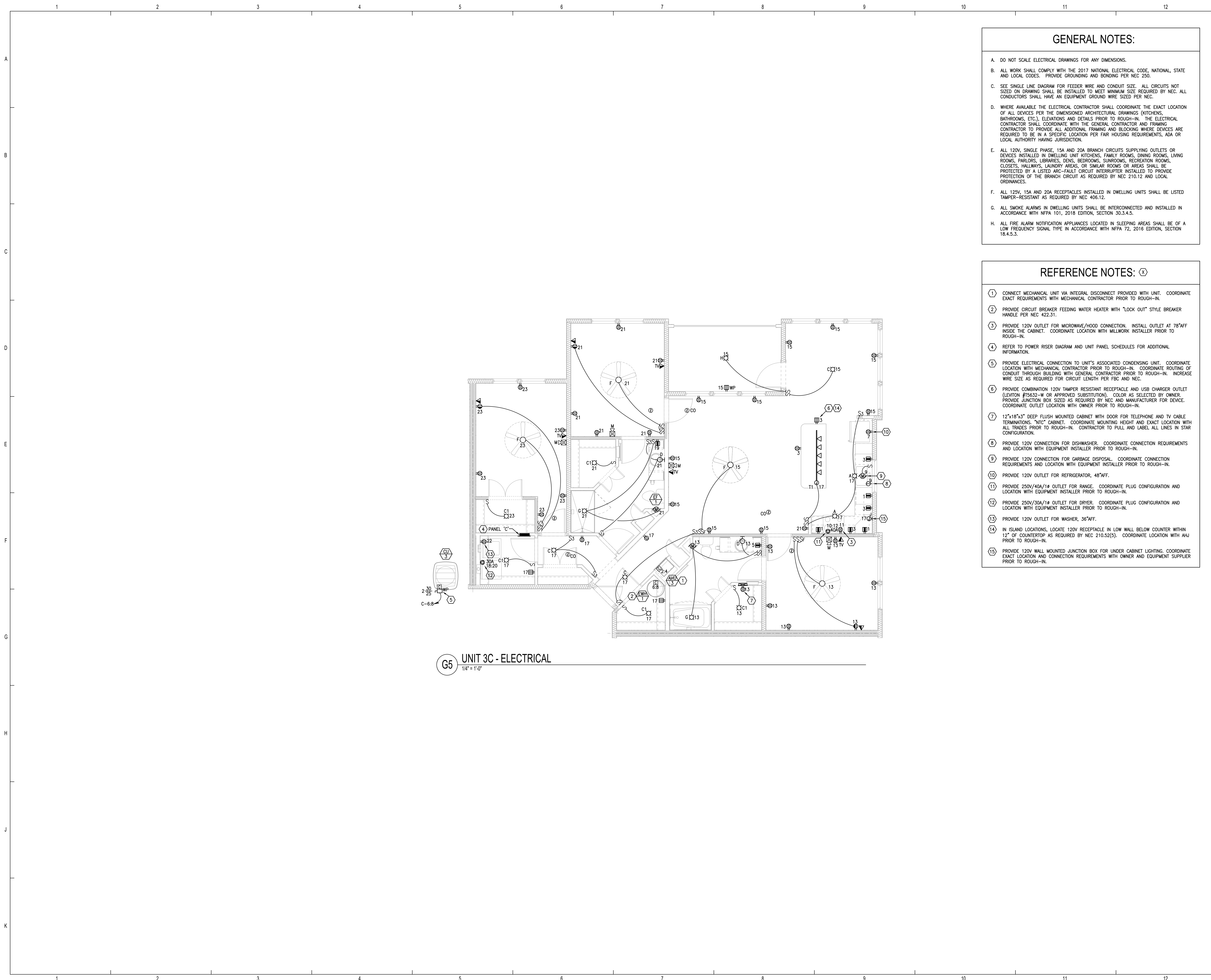
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THE MADISON	Drawn: M,RSMB
HUNTSVILLE, AL	Checked: BLSA,B
	Approved: BLSA,B
	Date: 04/15/2022
	Project: 5722

**ENLARGED UNIT PLANS
ELECTRICAL**

E3.06



G5 UNIT 3C - ELECTRICAL
1/4" = 1'-0"

GENERAL NOTES:

- A. DO NOT SCALE ELECTRICAL DRAWINGS FOR ANY DIMENSIONS.
- B. ALL WORK SHALL COMPLY WITH THE 2017 NATIONAL ELECTRICAL CODE, NATIONAL, STATE AND LOCAL CODES. PROVIDE GROUNDING AND BONDING PER NEC 250.
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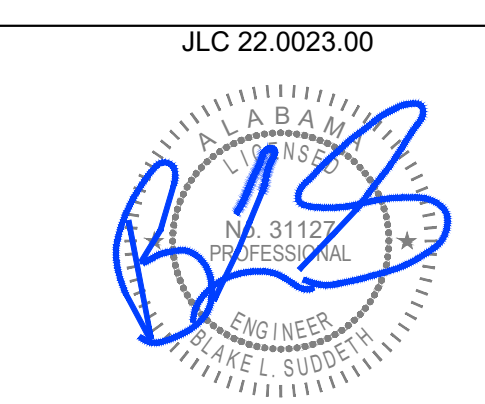
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Drawn:	M,RSMB
Checked:	BLSA,B
Approved:	BLSA,B
Date:	04/15/2022
Project:	5722

THE MADISON
HUNTSVILLE, AL

ENLARGED UNIT PLANS
ELECTRICAL
E3.07

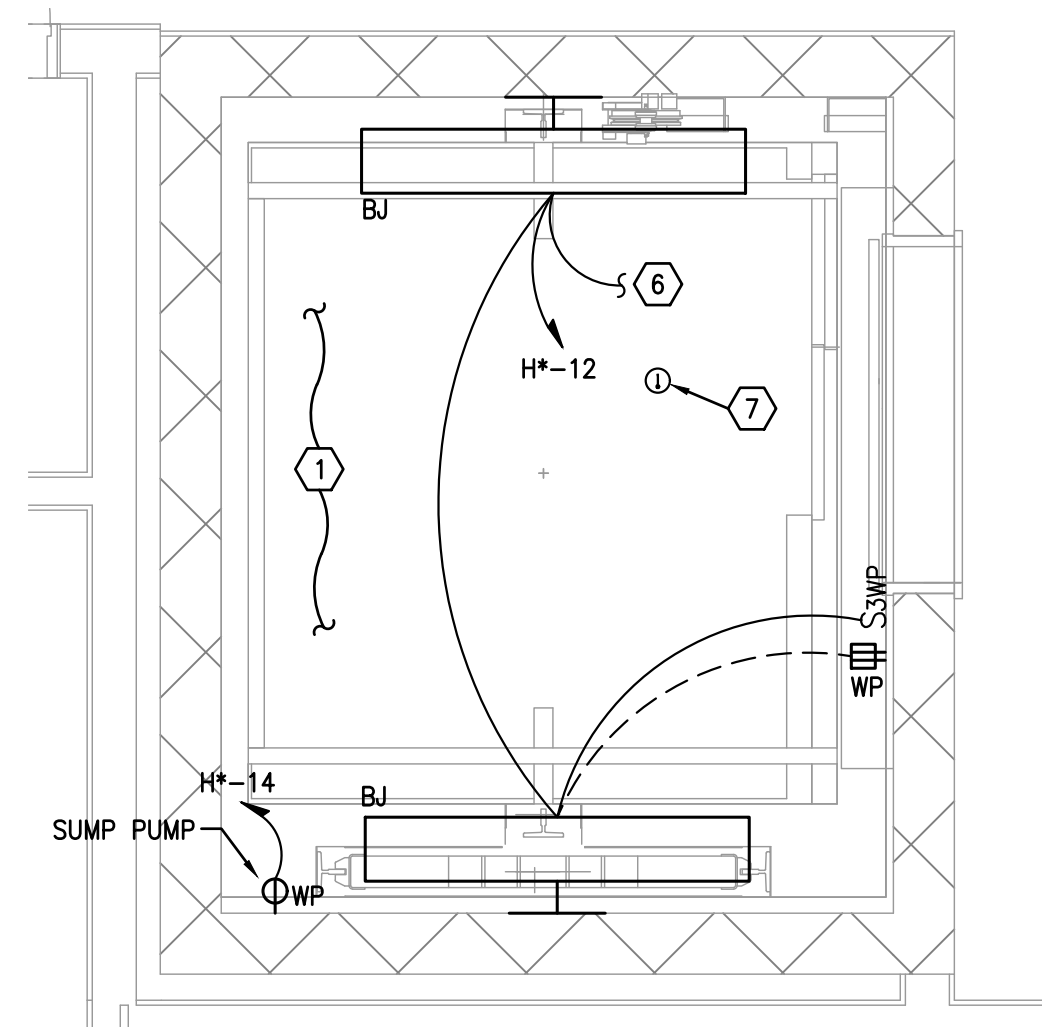


GENERAL NOTES:

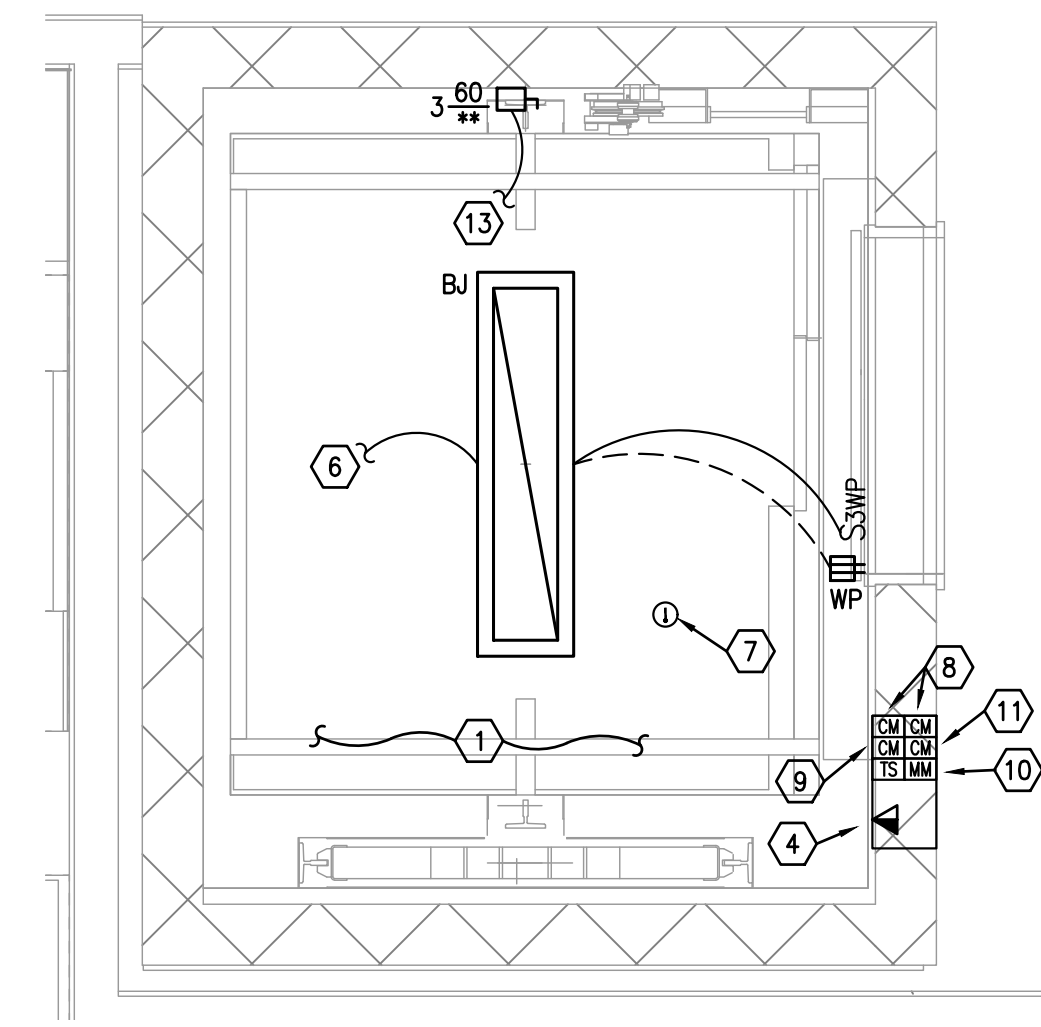
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- C. SEE SINGLE LINE DIAGRAM FOR FEEDER WIRE AND CONDUIT SIZE. ALL CIRCUITS NOT SIZED ON DRAWING SHALL BE INSTALLED TO MEET MINIMUM SIZE REQUIRED BY NEC. ALL CONDUCTORS SHALL HAVE AN EQUIPMENT GROUND WIRE SIZED PER NEC.
- D. FIELD VERIFY EXACT LOCATION OF ALL DEVICES AND EQUIPMENT PRIOR TO ROUGH IN.

REFERENCE NOTES: (X)

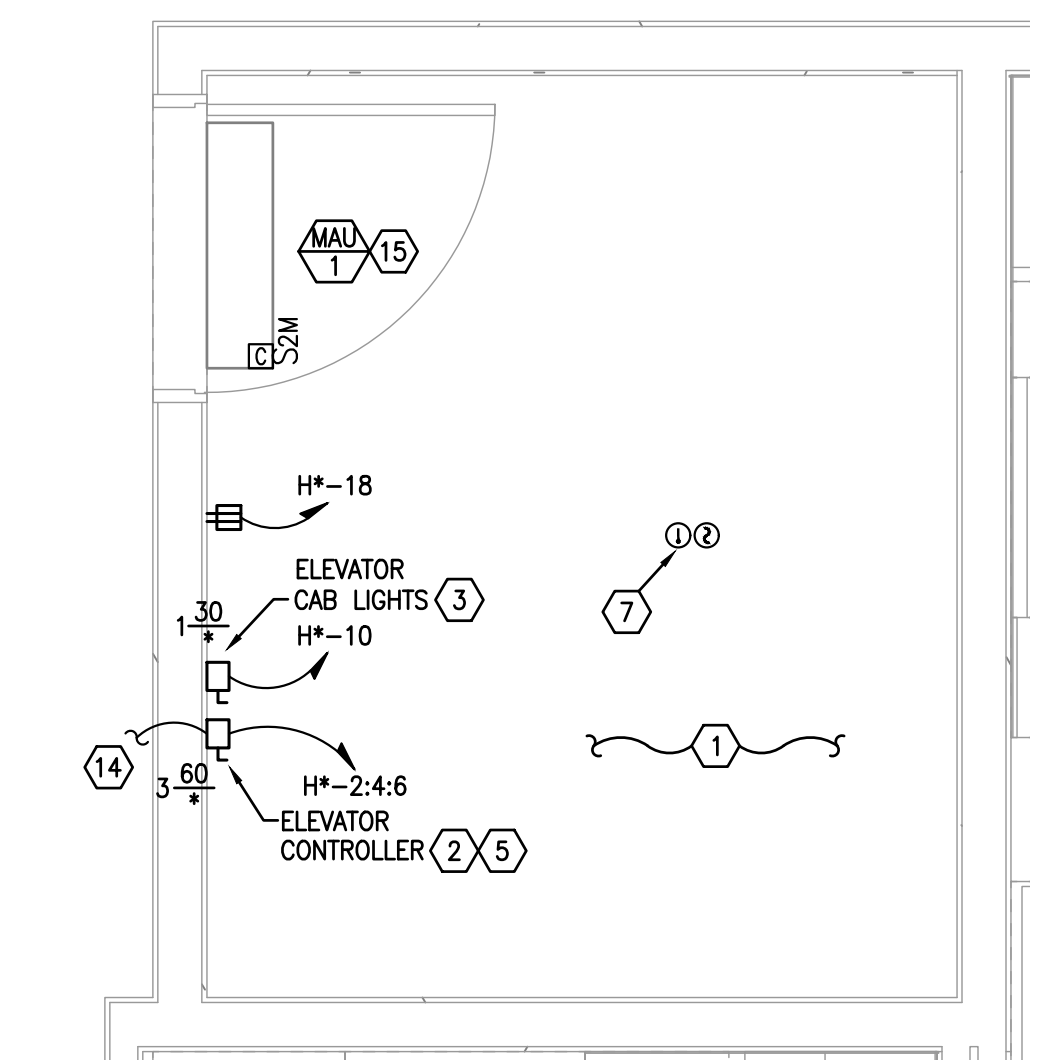
- ① REFER TO ELEVATOR SHOP DRAWINGS FOR EXACT LOCATIONS OF ELECTRICAL WORK IN ELEVATOR PIT AND MACHINE ROOM. PROVIDE CONNECTION SWITCHES, LIGHTS AND RECEPTACLES AS PER NEC 620.23 AND 24. CONNECT FIRE ALARM AND TELEPHONE DEVICES IN ELEVATOR SHAFT LOBBY AND EQUIPMENT ROOM PER STATE FIRE MARSHALL REQUIREMENTS.
- ② PROVIDE LOCKABLE RK5 DISCONNECT SWITCH WITH 20A AUXILIARY CONTACTS, REJECTION CLIPS AND RK5 FUSES AS REQUIRED BY ELEVATOR INSTALLER. CONNECT ELEVATOR CONTROLLER. REFER TO PANEL SCHEDULES FOR ADDITIONAL INFORMATION.
- ③ 30A, 120V LOCKABLE DISCONNECT SWITCH WITH REJECTION CLIPS AND 20A RK5 FUSE. LABEL "ELEVATOR CAB LIGHTS". CONNECT ELEVATOR CONTROLLERS: (2)#12 AND (1)#12 GND. IN 1/2" C.
- ④ ELEVATOR CAB TELEPHONE. COORDINATE WITH ELEVATOR CONTRACTOR PRIOR TO ROUGH-IN.
- ⑤ COORDINATE DISCONNECT SIZE, BREAKER SIZE, AND CONDUIT/CONDUCTOR SIZING WITH APPROVED ELEVATOR SHOP DRAWINGS AND PROVIDE AS REQUIRED.
- ⑥ CONNECT ELEVATOR SHAFT LIGHTING ON TOP FLOOR TO ELEVATOR PIT LIGHTING ON FIRST FLOOR. FIXTURES TO BE CONTROLLED BY 3-WAY SWITCH AS SHOWN ON PLANS.
- ⑦ MOUNT MOISTURE PROOF HEAT DETECTOR WITHIN 18" OF FIRE PROTECTION SPRINKLER HEAD. FIELD COORDINATE PRIOR TO ROUGH-IN.
- ⑧ ELEVATOR RECALL CONTROL MODULES. COORDINATE WITH ELEVATOR CONTRACTOR PRIOR TO ROUGH-IN.
- ⑨ ELEVATOR POWER SHUTDOWN CONTROL MODULE.
- ⑩ ELEVATOR POWER SHUTDOWN CONTROL CIRCUIT SUPERVISORY MONITOR MODULE.
- ⑪ ELEVATOR PHASE 1 EMERGENCY RECALL VISUAL SIGNAL CONTROL MODULE. COORDINATE TERMINATION REQUIREMENTS WITH ELEVATOR CONTROLLER.
- ⑫ PROVIDE TWO-WAY COMMUNICATION SYSTEM AND CABLE TO MAIN BASE STATION AS REQUIRED BY 2020 7TH EDITION FBC, 2018 FPPC, AND 2018 NFPA 101 LIFE SAFETY CODE. COORDINATE LOCATION WITH OWNER AND AUTHORITY HAVING JURISDICTION PRIOR TO ROUGH-IN.
- ⑬ PROVIDE 60A/3P, NON-FUSED DISCONNECT SWITCH AT TOP OF ELEVATOR SHAFT FOR CONNECTION OF ELEVATOR MOTOR TO ELEVATOR CONTROLLER. COORDINATE LOCATION AND CONNECTION REQUIREMENTS WITH ELEVATOR MANUFACTURER SHOP DRAWINGS AND INSTALLER PRIOR TO ROUGH-IN. MAINTAIN ALL NEC REQUIRED CLEARANCES FOR DISCONNECT SWITCH.
- ⑭ TO NON-FUSED 60A/3P DISCONNECT LOCATED AT TOP OF ELEVATOR SHAFT. PROVIDE (3)#6 AWG CU. AND (1)#10 AWG CU. GND. IN 1" C. AS REQUIRED.
- ⑮ CONNECT INTERIOR MECHANICAL MINI-SPLIT UNIT MAU-1 THROUGH EXTERIOR UNIT MCU-1. CONNECT PER MANUFACTURER'S RECOMMENDATIONS, AND PROVIDE ALL CONTROL WIRING, CONDUIT, ETC. AS REQUIRED.



C3 ENLARGED ELEVATOR PLAN - 1ST FLOOR - BLDG A & B
1/2" = 1'-0"



C7 ENLARGED ELEVATOR PLAN - 4TH FLOOR - BLDG A & B
1/2" = 1'-0"



F7 ENLARGED ELEVATOR PLAN - EQUIPMENT ROOM - BLDG A & B
1/2" = 1'-0"

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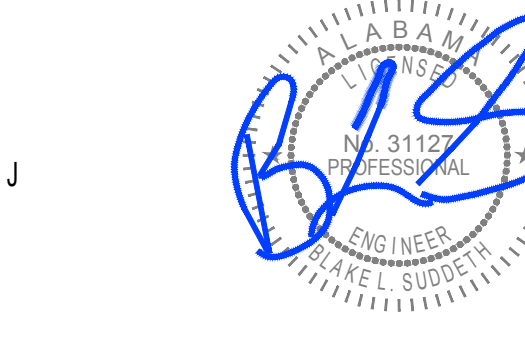
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WWW.JLCENG.COM
CA NO. 4050 - 1

JLC 22.0023.00



Drawn	M/R/SMB
Checked	BLS/AB
Approved	BLS/AB
Date	04/15/2022
Project #	5722

THE MADISON
HUNTSVILLE, AL
ENLARGED
ELEVATOR PLANS
ELECTRICAL

E3.09

UNIT FEEDER SCHEDULE		
208V/1Ø RESIDENTIAL LOAD CENTERS		
UNIT LOAD CENTER	MAXIMUM DISTANCE (FEET)	MINIMUM FEEDER SIZE (ALUMINUM SER CABLE)
125A	125	(3) #1/0 AWG AL & (1) #2 AWG AL GRD
	156	(3) #2/0 AWG AL & (1) #1 AWG AL GRD
	192	(3) #3/0 AWG AL & (1) #1/0 AWG AL GRD
	250	(3) #4/0 AWG AL & (1) #2/0 AWG AL GRD

NOTES:
1. FEEDER SIZES BASED ON NEC TABLE 310.15(B)(16) 75°C COLUMN.
2. FEEDER SIZES BASED ON 3% VOLTAGE DROP.
3. BASIS OF DESIGN: SOUTHWIRE SERVICE ENTRANCE CABLE - TYPE SER THREE CONDUCTOR WITH BARE GROUND.

CONDUIT & CONDUCTOR SIZES: (X)	
(A)	5 SETS [(4) #600 kcmil AL, 4°C.]
(B)	2 SETS [(4) #250 kcmil AL & (1) #1 AWG. AL. GND. IN 3°C.]

NOTE:
FEEDERS ARE DESIGNED FOR A MAXIMUM VOLTAGE DROP OF 2% AT DESIGN LOAD.
BRANCH CIRCUITS ARE DESIGNED FOR A MAXIMUM VOLTAGE DROP OF 3% AT DESIGN LOAD.

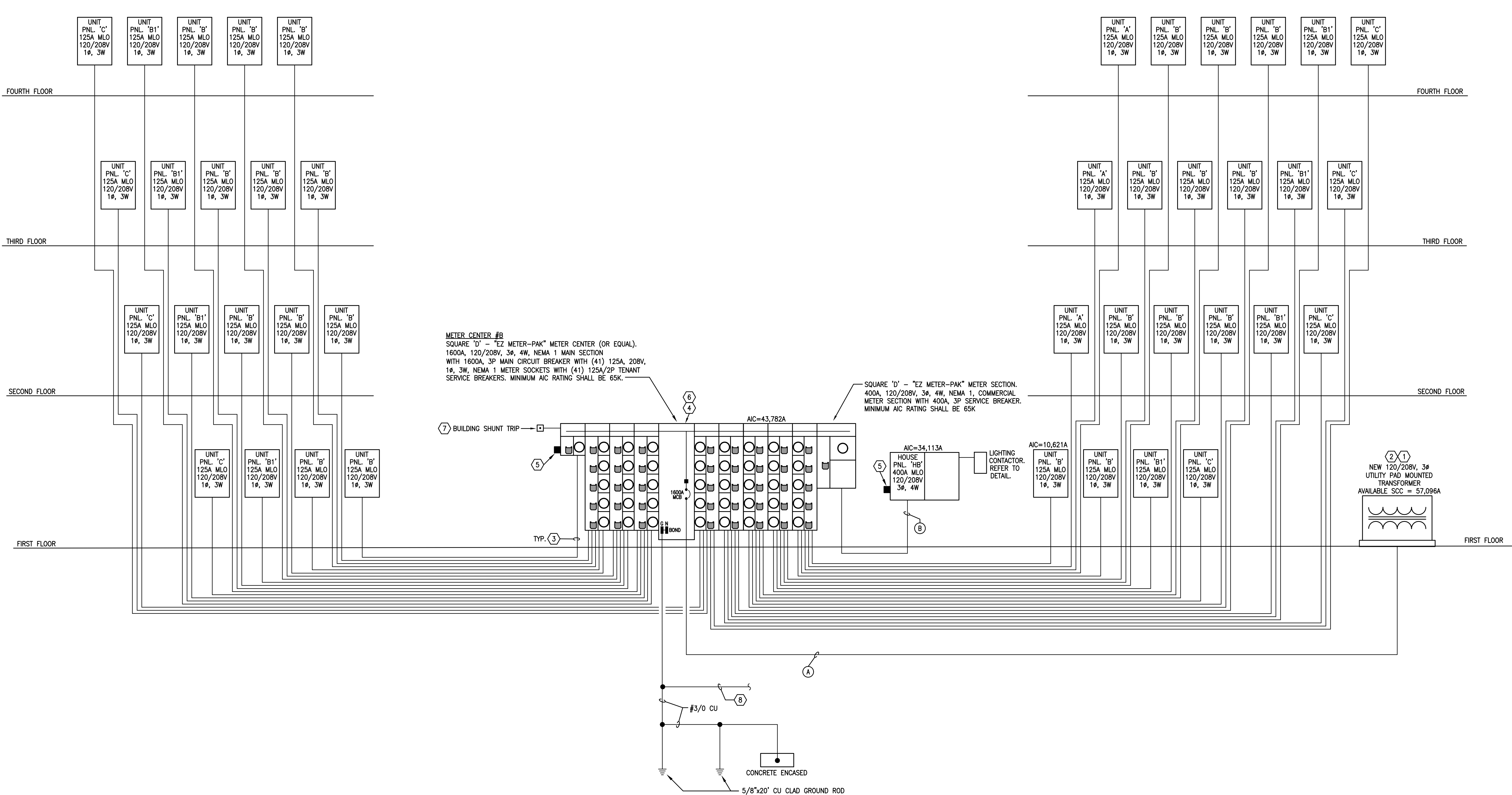
- REFERENCE NOTES: (X)
- REFER TO CIVIL DRAWINGS FOR LOCATION OF UTILITY TRANSFORMER.
 - COORDINATE ALL REQUIREMENTS WITH LOCAL UTILITY COMPANY PRIOR TO ROUGH-IN AND PROVIDE AS REQUIRED.
 - COORDINATE ROUTING OF SERVICE ENTRANCE RATED CABLE WITH GENERAL CONTRACTOR AND ARCHITECT PRIOR TO ROUGH-IN.
 - COORDINATE LOCATION WITH CIVIL DRAWINGS, OWNER AND UTILITY COMPANY PRIOR TO ROUGH-IN. PROVIDE METER LABELING AS REQUIRED BY UTILITY COMPANY.
 - PROVIDE HARD WIRED SURGE PROTECTIVE DEVICE OF SAME MANUFACTURER AS PANEL/METER CENTER.
 - PROVIDE IDENTIFICATION SIGNAGE ON MAIN DISCONNECTS TO CONFORM WITH NEC 230.2(E) AND LOCAL UTILITY COMPANY.
 - COORDINATE EXACT LOCATION OF BUILDING SHUNT TRIP WITH FIRE MARSHALL PRIOR TO ROUGH-IN. SHUNT TRIP TO SHUT OFF ELECTRICAL SERVICE TO MCB#B.
 - PROVIDE #6 AWG CU. GND. INTER-SYSTEM BONDING JUMPER TO INTER-SYSTEM BONDING TERMINAL PER NEC 250.94.

- GENERAL NOTES:
- DO NOT SCALE ELECTRICAL DRAWING FOR ANY DIMENSIONS.
 - ALL WORK SHALL COMPLY WITH THE 2017 NATIONAL ELECTRIC CODE, NATIONAL, STATE AND LOCAL CODES. PROVIDE GROUNDING AND BONDING PER NEC 250
 - COORDINATE ALL WORK WITH LOCAL UTILITY COMPANY.
 - CONTRACTOR TO PROVIDE AND INSTALL ARC ENERGY REDUCTION MITIGATION SYSTEM AND DOCUMENTATION FOR ALL OVERCURRENT DEVICES RATED 1200A OR GREATER PER NEC 240.87.
 - PER NEC ARTICLE 110.24, ALL CONSTRUCTION DOCUMENTS SHALL PROVIDE A PERMANENT LABEL TO THE FRONT OF SERVICE EQUIPMENT ENCLOSURE STATING THE MAXIMUM AVAILABLE FAULT CURRENT IN AMPS, THE DATE CALCULATED, THE NOMINAL VOLTAGE AND THE FREQUENCY IN HERTZ, THE SERVICE EQUIPMENT BUS RATING IN AMPS, AND THE SCC OF SERVICE EQUIPMENT IN AMPS. SIGNAGE SHALL BE ENGRAVED, LAMINATED ACRYLIC, OR MELAMINE LABEL, PUNCHED OR DRILLED FOR MECHANICAL FASTENERS WITH WHITE LETTERS ON A BLACK BACKGROUND, MINIMUM 1/16" THICK. MINIMUM LETTER HEIGHT SHALL BE 1/2".
 - PER NEC ARTICLE 110.16, ARC FLASH WARNING LABELS ARE TO BE INSTALLED ON ALL SWITCHBOARDS, PANELBOARDS, METER SOCKET ENCLOSURES, AND MOTOR CONTROL CENTERS THAT ARE LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE WHILE ENERGIZED. ARC FLASH WARNING LABELS SHALL MEET THE ARTICLE 110.21(B).



ISSUE HISTORY		
No.	Date	Description
1	04/15/22	Permit Submission

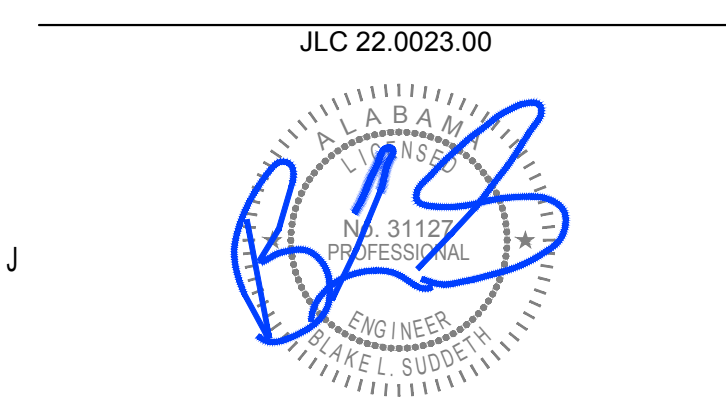
REVISION HISTORY		
No.	Date	Description



K3 BUILDING TYPE B - POWER RISER DIAGRAM - METER CENTER #B
NOT TO SCALE

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JLC 22.0023.00

Drawn	MJRSMB
Checked	BLSAJB
Approved	BLSAJB
Date	04/15/2022
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THE MADISON
HUNTSVILLE, AL

**RISER DIAGRAM
ELECTRICAL**

E4.02



RESIDENTIAL UNIT TYPE 1A, 1B, 1Bs ELECTRICAL SERVICE LOAD SUMMARY. Table with columns for item, description, and load.

RESIDENTIAL UNIT TYPE 2B, 2BS ELECTRICAL SERVICE LOAD SUMMARY. Table with columns for item, description, and load.

RESIDENTIAL UNIT TYPE 2C ELECTRICAL SERVICE LOAD SUMMARY. Table with columns for item, description, and load.

RESIDENTIAL UNIT TYPE 3C ELECTRICAL SERVICE LOAD SUMMARY. Table with columns for item, description, and load.

RESIDENTIAL UNIT TYPE TH ELECTRICAL SERVICE LOAD SUMMARY. Table with columns for item, description, and load.

TYPICAL UNIT PANEL 'A'. Table with columns for location, voltage, and circuit descriptions.

TYPICAL UNIT PANEL 'B'. Table with columns for location, voltage, and circuit descriptions.

TYPICAL UNIT PANEL 'B1'. Table with columns for location, voltage, and circuit descriptions.

MECHANICAL CONDENSING UNIT FEEDER SCHEDULE. Table with columns for CU #, maximum distance, and minimum feeder size.

TYPICAL UNIT PANEL 'C'. Table with columns for location, voltage, and circuit descriptions.

TYPICAL UNIT PANEL 'TH'. Table with columns for location, voltage, and circuit descriptions.

LIGHTING FIXTURE SCHEDULE - TYPICAL UNITS. Table with columns for mark, description, manufacturer, model, volts, lamp qty, wattage, and fixture watts.

ISSUE HISTORY table with columns for No., Date, and Description.

REVISION HISTORY table with columns for No., Date, and Description.

FUGLEBERG KOCH logo and contact information.

Joseph, Lawrence & Co Consulting Engineers logo and address.

Professional Engineer seal for J.L.C. 22.0023.00.

THE MADISON logo and project information.

SCHEDULES ELECTRICAL E5.01 title block.



RESIDENTIAL BUILDING TYPE A LOAD SUMMARY - METER CENTER #A

Table with unit load summaries for Residential Building Type A. Columns include Unit Type, VA, and calculations. Includes totals for connected unit load, demand load, and demand amps.

RESIDENTIAL BUILDING TYPE B LOAD SUMMARY - METER CENTER #B

Table with unit load summaries for Residential Building Type B. Columns include Unit Type, VA, and calculations. Includes totals for connected unit load, demand load, and demand amps.

RESIDENTIAL BUILDING TYPE C LOAD SUMMARY - METER CENTER #C

Table with unit load summaries for Residential Building Type C. Columns include Unit Type, VA, and calculations. Includes totals for connected unit load, demand load, and demand amps.

PANEL 'HA' (SECTION 1)

Electrical panel schedule for Panel 'HA' (Section 1). Columns include circuit description, branch circuit, load, phase, and equipment served. Includes a summary table with connected load, demand load, and demand amps.

PANEL 'HB' (SECTION 1)

Electrical panel schedule for Panel 'HB' (Section 1). Columns include circuit description, branch circuit, load, phase, and equipment served. Includes a summary table with connected load, demand load, and demand amps.

PANEL 'HC'

Electrical panel schedule for Panel 'HC'. Columns include circuit description, branch circuit, load, phase, and equipment served. Includes a summary table with connected load, demand load, and demand amps.

PANEL 'HA' (SECTION 2)

Electrical panel schedule for Panel 'HA' (Section 2). Columns include circuit description, branch circuit, load, phase, and equipment served. Includes a summary table with connected load, demand load, and demand amps.

PANEL 'HB' (SECTION 2)

Electrical panel schedule for Panel 'HB' (Section 2). Columns include circuit description, branch circuit, load, phase, and equipment served. Includes a summary table with connected load, demand load, and demand amps.

LIGHTING FIXTURE SCHEDULE - BUILDINGS

Lighting fixture schedule table with columns for Mark, Description, Manufacturer, Model, Volts, Lamp Qty, Lamp Watts, Lamp Model, and Fixture Watts. Lists various fixtures for buildings BA through X1.

ISSUE HISTORY

Issue history table with columns for No., Date, and Description. Shows a single entry for 04/15/22 Permit Submission.

REVISION HISTORY

Revision history table with columns for No., Date, and Description. The table is currently empty.

Logo for Fugleberg Koch, consisting of a stylized globe icon and the company name.

2555 Temple Trail, Winter Park, FL 32789 (407) 629-0595 www.fuglebergkoch.com AA26002103

Logo for Joseph, Lawrence & Co Consulting Engineers, featuring a stylized 'JL' monogram and the company name.

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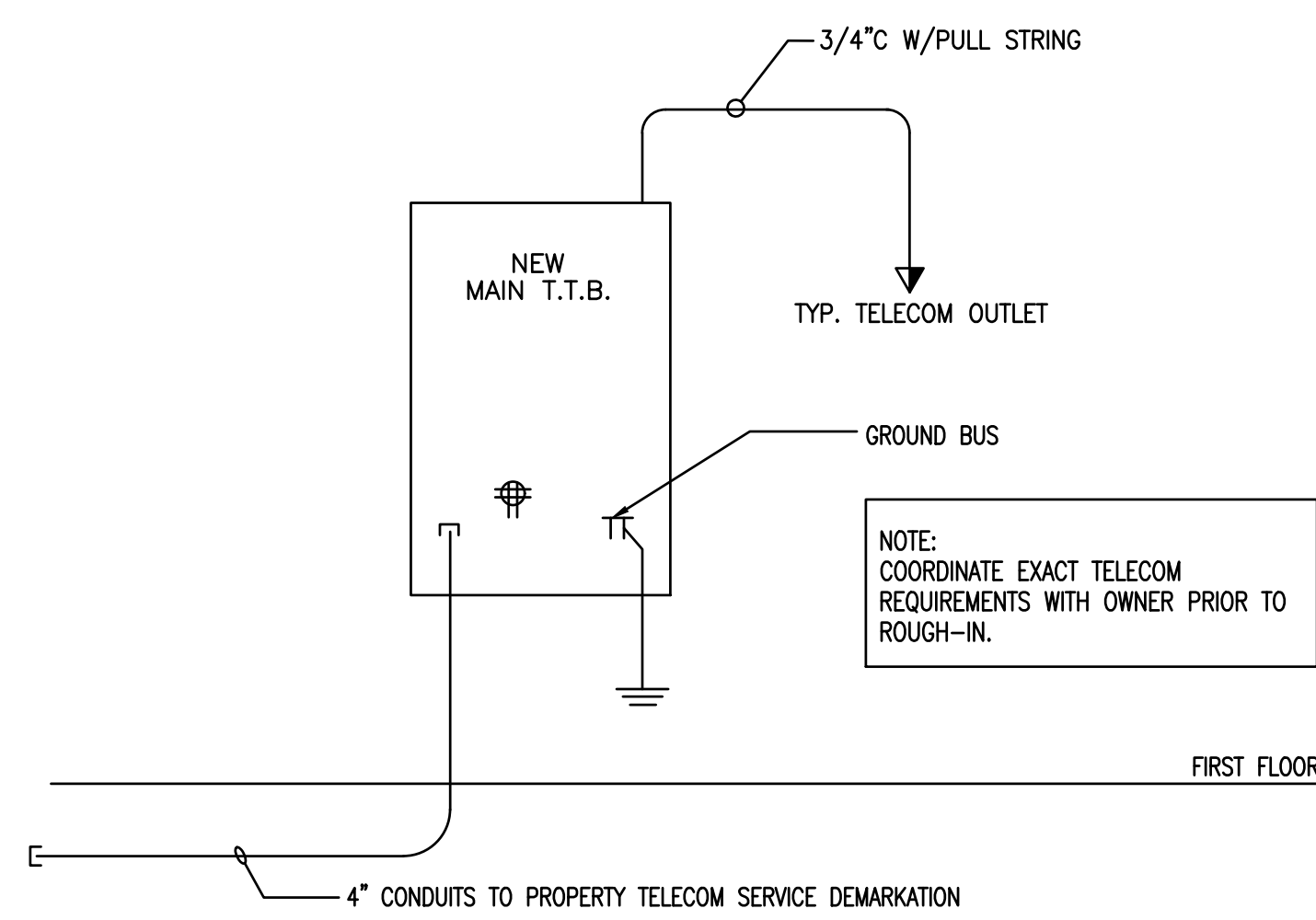


THE MADISON HUNTSVILLE, AL. Includes a grid of approval checkboxes for Design, Approval, and Date.

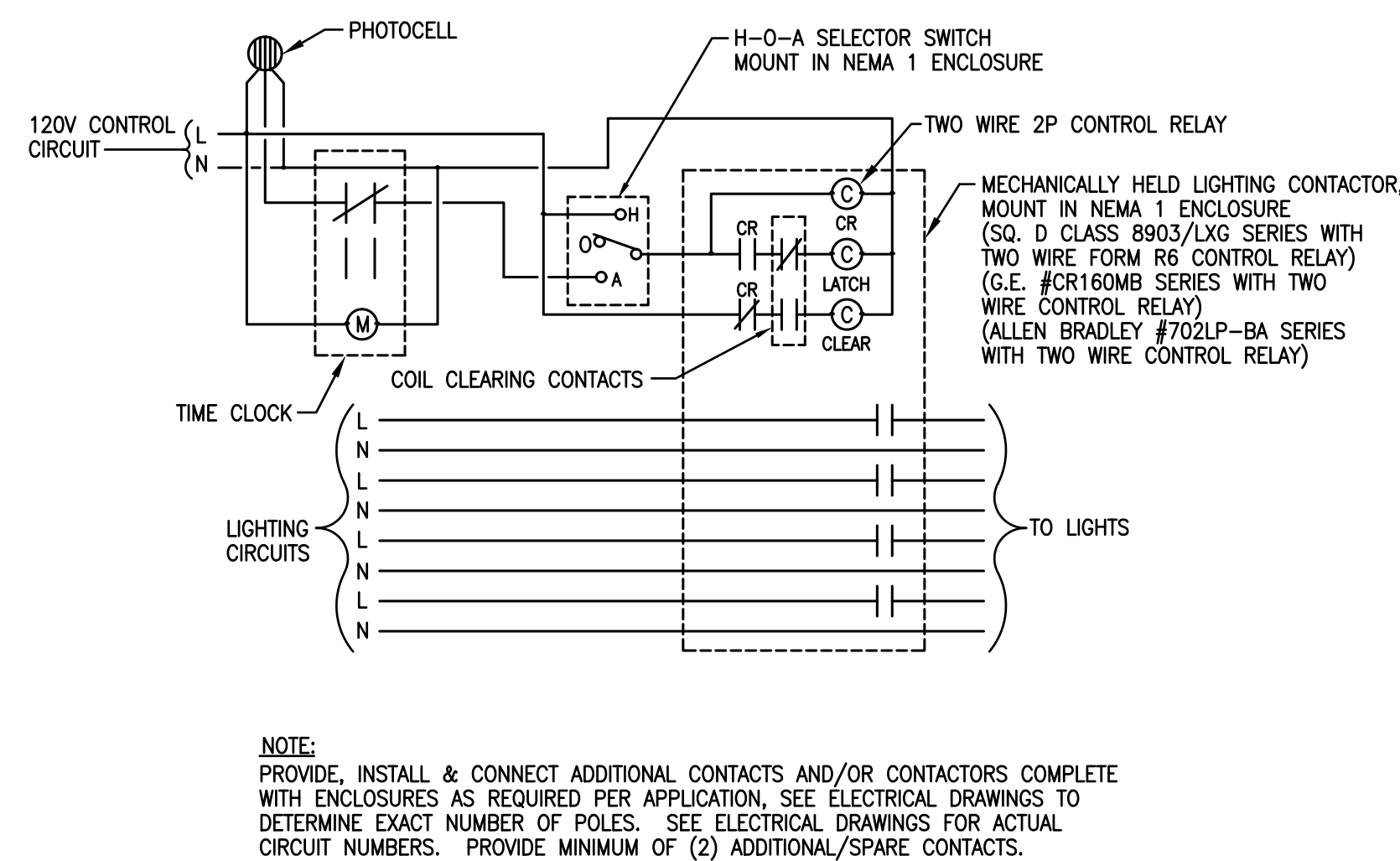
SCHEDULES ELECTRICAL

E5.02

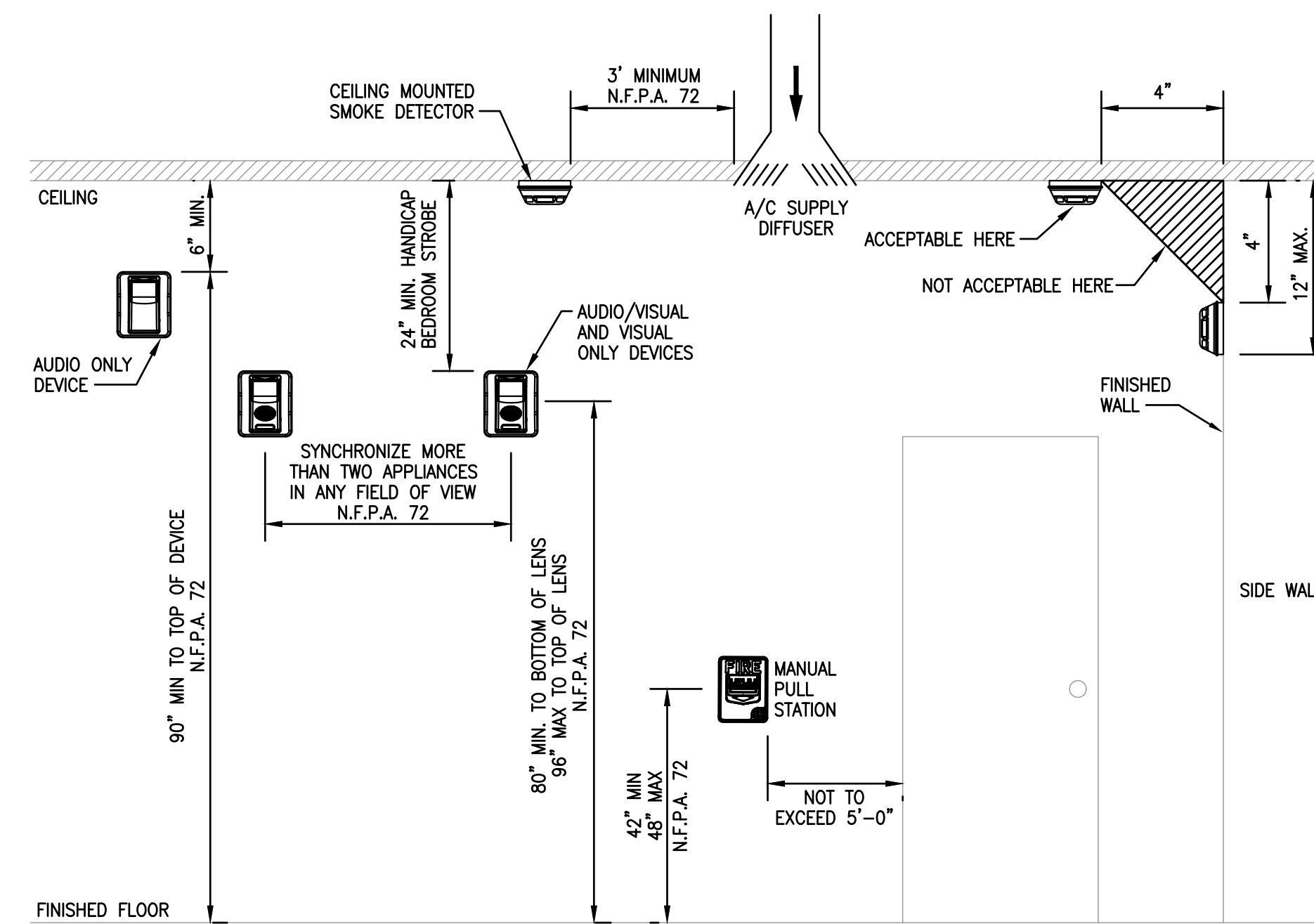
Vertical text on the right edge of the page, likely a reference to a drawing standard or code.



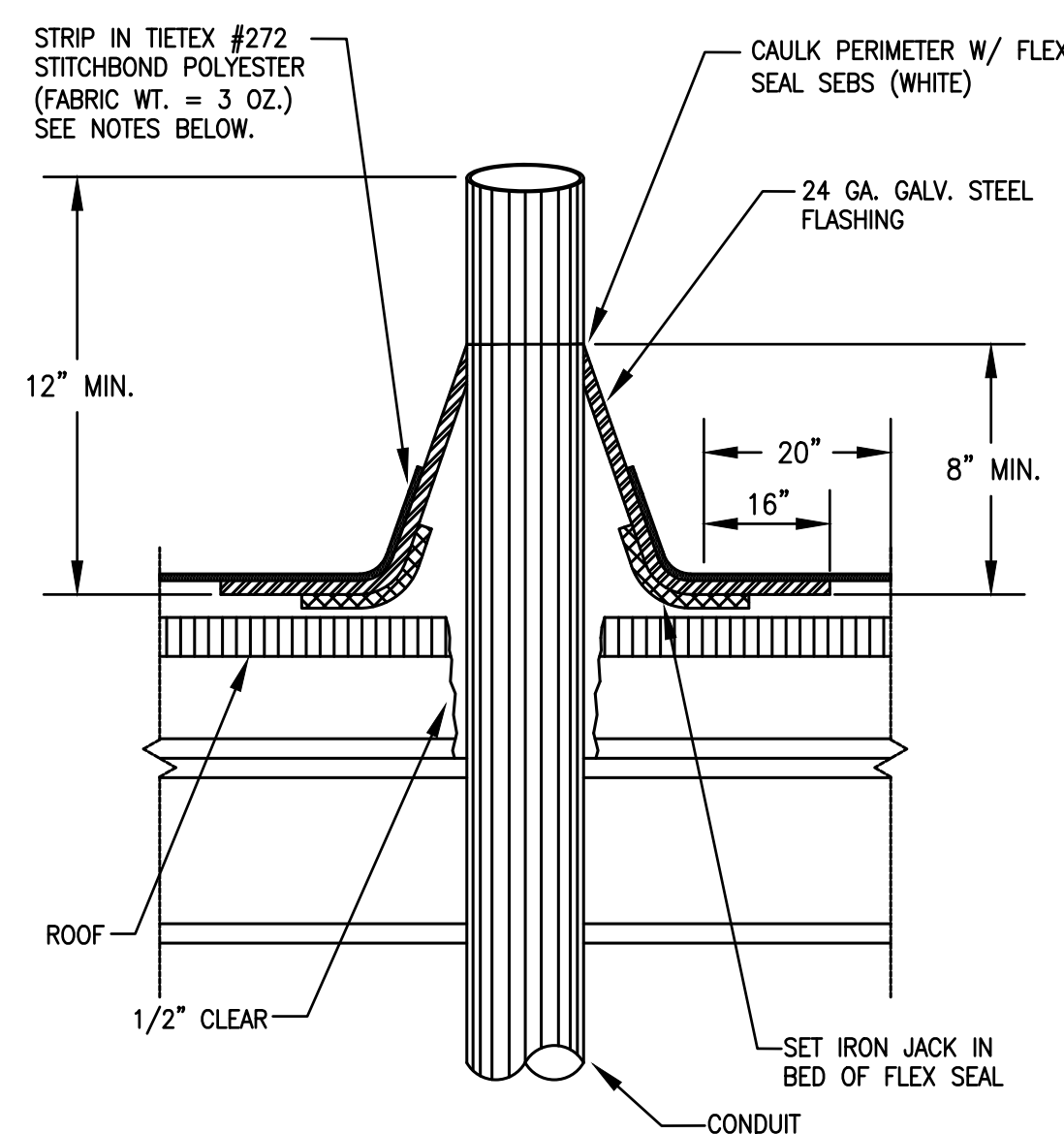
4 COMMUNICATION RISER DIAGRAM
NTS



5 CONTACTOR 'LC1' SCHEMATIC -
PHOTOCELL & TIMECLOCK CONTROLLED
NTS

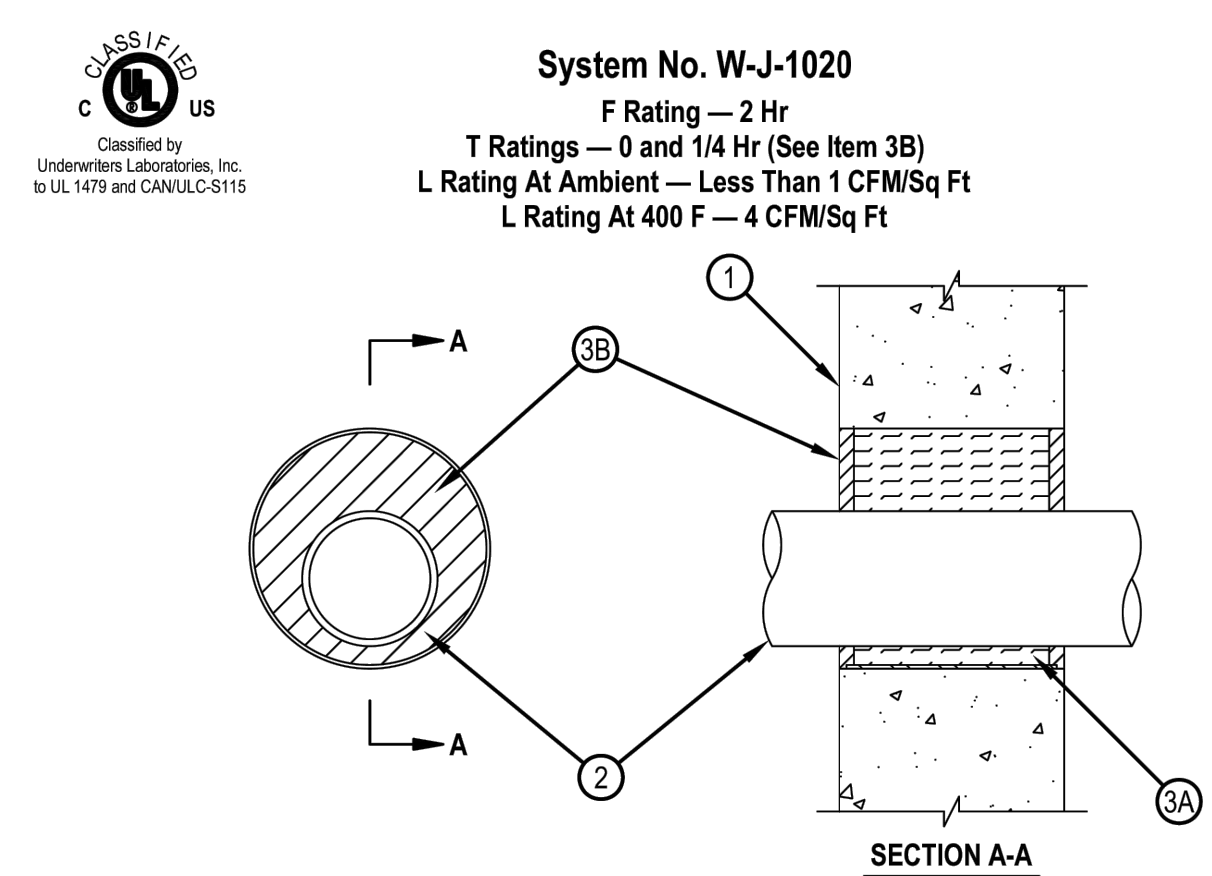


6 STANDARD MOUNTING HEIGHT DETAIL
NTS



- NOTES:
- ALL SURFACES TO BE CLEAN (FREE OF DIRT, GREASE, SCALE, PAINT, ETC.)
 - WIRE BRUSH ALL LOOSE MATERIAL AS REQUIRED.
 - PRIME EXISTING ROOF AND FLASHING W/ SB ELASTOMERIC PRIMER.
 - 5 COURSE: 2 PLYS TIETEX W/ SB ELASTOMERIC GEL (FEATHER SECOND PLY) AT MIN. 40 MIL UNCURED PER COURSE.
 - TOP COAT W/ K-2 EXTREME DUTY ELASTOMER (MATCH ROOF COLOR)
 - DETAIL SHOW FOR WEATHERPROOFING PENETRATION ONLY. CONTRACTOR SHALL PROVIDE FIRESTOPPING AS REQUIRED TO MAINTAIN FIRE RATING OF ROOF.

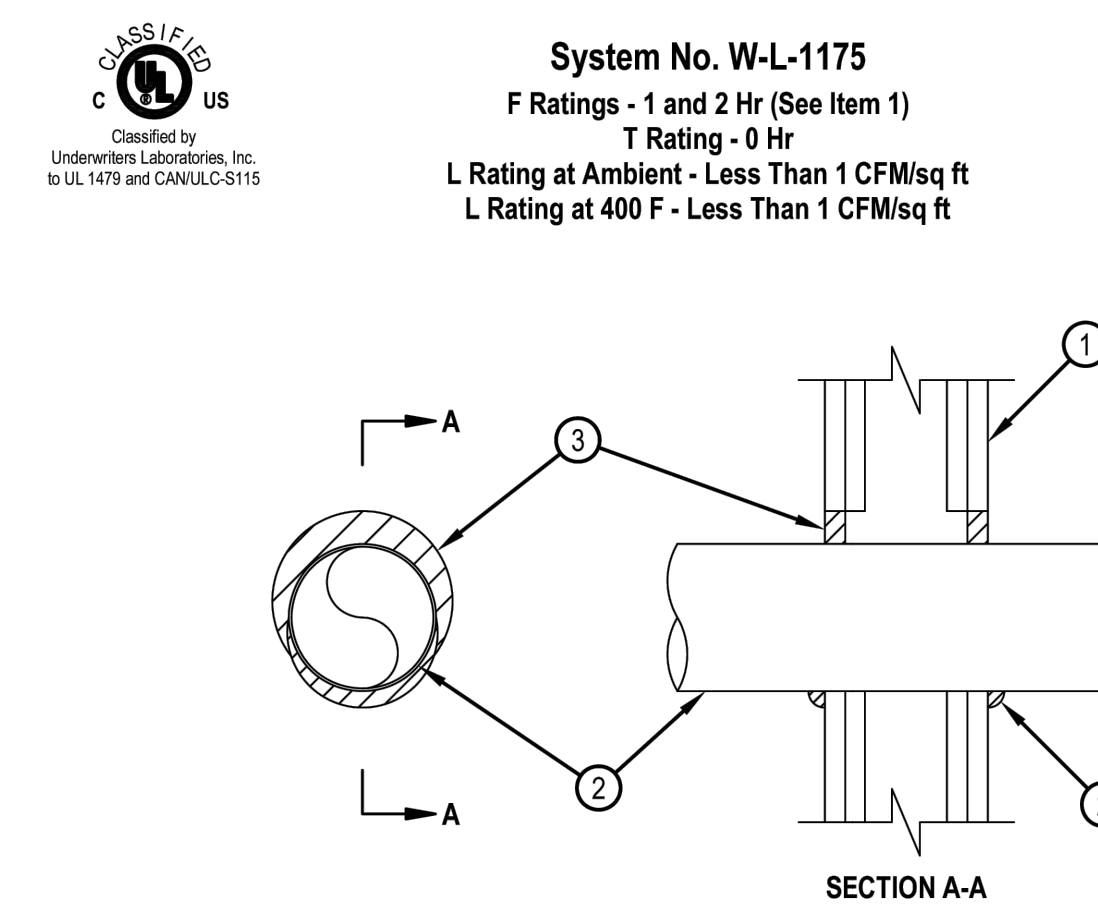
1 ROOF PENETRATION
WEATHERPROOF DETAIL
NTS



- Wall Assembly — Min 5 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 8 in. See Concrete Blocks (CA-2) category in the Fire Resistance Directory for names of manufacturers.
- Through Penetrants — One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The annular space between pipe, conduit or tubing and periphery of opening shall be min. 3/4 in. to max. 5/16 in. The following types and sizes of metallic pipes, conduits or tubing may be used:
 - Conduit — Nom 4 in. diam (or smaller) electrical metallic tubing or steel conduit.
 - Copper Tubing — Nom 4 in. diam (or smaller) Type L (or heavier) copper tubing.
 - Copper Pipe — Nom 4 in. diam (or smaller) Regular (or heavier) copper pipe.
- Firestop System — The hourly F and T Rating for the firestop systems are dependent upon the type and size of pipe, annular space, fill material thickness and fill material type as described in the table below. When the annular space in the table shows a range of distances, the penetrating item may be installed either concentrically or eccentrically within the firestop system. The firestop systems shall consist of the following:
 - Packing Material — Mineral wool batt insulation firmly packed into opening as a permanent form. As an option to the above, bakker rod and/or foamed plastic backer material may be used. Packing material to be recessed from both surfaces of wall as required to accommodate the required thickness of fill material.
 - Fill, Void or Cavity Material — Sealant* — Applied within the annulus, flush with both surfaces of wall as shown in the table below:

*Bearing the UL Classification Mark

2 UL FIRE RATED DETAIL (W-J-1020)
NTS



- Wall Assembly — The 1 or 2 hr fire rated wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
 - Studs — Wall framing shall consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC.
 - Gypsum Board* — Nom 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the Fire Resistance Directory. Max diam of opening is 5-1/2 in. The hourly F and T Ratings of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
- Through Penetrant — One metallic tubing or conduit installed concentrically or eccentrically within the firestop system. Tube or conduit to be rigidly supported on both sides of wall assembly. The annular space between the tube or conduit and periphery of the steel sleeve shall be min 0 in. (point contact) to max 1 in. The following types and sizes of metallic tube or conduit may be used:
 - Conduit — Nom 4 in. diam (or smaller) steel electrical metallic tubing or steel conduit.
- Fill Void or Cavity Material* — Putty — Min 5/8 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. At point contact location between penetrant and wall, a 1/4 in. crown of fill material shall be applied at the conduit/wall interface on both sides of the assembly, lapping 1/4 in. on the conduit and 1/4 in. beyond the periphery of the opening.

*Bearing the UL Classification Mark

3 UL FIRE RATED DETAIL (W-L-1175)
NTS

ISSUE HISTORY		
No.	Date	Description
1	04/15/22	Permit Submission

REVISION HISTORY		
No.	Date	Description

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JLC 22.0023.00

Drawn	MJRSMB
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Approved	BLSA/B
Date	04/15/2022
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THE MADISON
 HUNTSVILLE, AL

**DETAILS
 ELECTRICAL**

E6.01

LEGEND

	DIRECTION OF FLOW IN PIPE
	PITCH PIPE DOWN IN DIRECTION OF ARROW
	PIPE UP
	PIPE DOWN
	EXPANSION JOINT
	FLEXIBLE PIPE CONNECTOR
	BALL VALVE
	CHECK VALVE, HORIZONTAL SWING
	GATE VALVE
	BUTTERFLY VALVE
	GLOBE VALVE
	BALANCING VALVE
	BALANCING COCK
	STRAINER, Y-TYPE AND BLOWOFF VALVE
	PRESSURE RELIEF VALVE (WATER)
	PRESSURE REDUCING VALVE
	MANUAL AIR VENT
	SOLENOID VALVE
	VALVE OS & Y
	CAPPED LINE
	SANITARY SEWER (ABOVE GRADE)
	SANITARY SEWER (BELOW GRADE)
	DOMESTIC COLD WATER
	BOOSTED PRESSURE DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC HOT WATER RETURN
	CONDENSATE DRAIN (BELOW GRADE)
	CONDENSATE DRAIN (ABOVE GRADE)
	STORM SEWER (BELOW GRADE)
	STORM SEWER (ABOVE GRADE)
	SECONDARY STORM SEWER
	GREASE SEWER (BELOW GRADE)
	GREASE SEWER (ABOVE GRADE)
	SOFT COLD WATER
	VENT
	GAS LINE (BELOW GRADE)
	GAS LINE (ABOVE GRADE)
	POINT OF CONNECTION NEW TO EXISTING
	POINT OF REMOVAL FOR DEMOLITION
	DELTA T (TEMPERATURE DIFFERENCE)
	PHOTO DETAIL OR SECTION IDENTIFICATION TARGET A = DETAIL NUMBER B = SHEET NUMBER ON WHICH DETAIL IS LOCATED.
	HOSE BIBB
	FLOOR DRAIN
	HUB DRAIN
	TRENCH DRAIN
	COMPRESSED AIR (BELOW GRADE)
	COMPRESSED AIR (ABOVE GRADE)
	FLOOR CLEANOUT
	CLEANOUT
	EXTERIOR CLEANOUT
	HORIZONTAL CLEANOUT
	PAN DRAIN (FROM WATER HEATER)
	FILTERED WATER
	SHOCK ABSORBER
	GARBAGE DISPOSAL
	DISHWASHER

NOTE:
SYMBOLS SHOWN ON THIS PLUMBING LEGEND ARE FOR REFERENCE PURPOSES ONLY. ALL OF THESE SYMBOLS MAY NOT BE USED FOR THIS PROJECT.

SPECIFICATIONS

- PART 1 - GENERAL**
- SECTION INCLUDES
 - GENERAL PROVISIONS SPECIFICALLY APPLICABLE TO DIVISION 15 SECTIONS, IN ADDITION TO DIVISION 1 - GENERAL REQUIREMENTS.
 - SCOPE
 - THE WORK SHALL INCLUDE THE PROVISIONS OF SYSTEMS, EQUIPMENT AND MATERIALS SPECIFIED IN THIS DIVISION AND AS CALLED FOR ON THE DRAWINGS. WORK SHALL ALSO INCLUDE SUPERVISION, OPERATION, METHODS AND LABOR FOR THE FABRICATION, START-UP AND TESTS FOR A COMPLETE OPERATIONAL PLUMBING INSTALLATION.
 - DRAWINGS FOR THE WORK ARE DIAGRAMMATIC IN NATURE AND ARE INTENDED TO CONVEY THE SCOPE OF THE INSTALLATION AND TO INDICATE THE GENERAL ARRANGEMENT AND LOCATIONS OF THE WORK. BECAUSE OF THE SCALE OF THE DRAWINGS, CERTAIN BASIC ITEMS SUCH AS PIPE FITTINGS, ACCESS PANELS, AND SLEEVES MAY NOT BE SHOWN. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING THE EQUIPMENT TO FIT THE SPACE PROVIDED, THE LOCATION AND SIZES FOR PIPE FITTINGS, SLEEVES, INSERTS, FIRE AND/OR SMOKE DAMPERS, AND OTHER BASIC ITEMS REQUIRED BY CODE AND OTHER SECTIONS SHALL BE COORDINATED AND INCLUDED FOR THE PROPER INSTALLATION OF THE WORK.
 - EQUIPMENT SPECIFICATIONS MAY NOT DEAL INDIVIDUALLY WITH MINUTE ITEMS REQUIRED SUCH AS COMPONENTS, PARTS, CONTROLS AND DEVICES WHICH MAY BE REQUIRED TO PRODUCE THE EQUIPMENT PERFORMANCE SPECIFIED OR AS REQUIRED TO MEET THE EQUIPMENT WARRANTIES. WHERE SUCH ITEMS ARE REQUIRED, THEY SHALL BE INCLUDED BY THE INSTALLER OF THE EQUIPMENT, WHETHER OR NOT SPECIFICALLY INDICATED IN THE CONTRACT DOCUMENTS WITH NO ADDITIONAL COST INCURRED.
 - WHERE NOTED ON THE DRAWINGS OR INDICATED IN OTHER SECTIONS OF THE SPECIFICATION, THE CONTRACTOR FOR THIS DIVISION SHALL INSTALL PLUMBING EQUIPMENT FURNISHED BY OTHERS, AND SHALL MAKE ALL FINAL CONNECTIONS. CONTRACTOR SHALL INSTALL EQUIPMENT AND SYSTEMS IN STRICT ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
 - COORDINATE WITH ALL TRADES IN SUBMITTAL OF SHOP DRAWINGS. TIGHT SPACE CONDITIONS SHALL BE DETAILED TO THE SATISFACTION OF ALL TRADES, SUBJECT TO THE REVIEW AND FINAL ACCEPTANCE OF THE ARCHITECT/ENGINEER. IN THE EVENT THAT THE CONTRACTOR INSTALLS HIS WORK BEFORE COORDINATING WITH OTHER TRADES OR SO AS TO CAUSE ANY INTERFERENCE WITH THE WORK OF THE OTHER TRADES THIS CONTRACTOR SHALL MAKE ALL REQUIRED CHANGES TO CORRECT THE CONDITION AT NO ADDITIONAL COST TO THE PROJECT.
 - CONTRACTOR SHALL VERIFY ALL EQUIPMENT CONNECTION SIZES PRIOR TO INSTALLATION OF ANY SYSTEMS. THIS CONTRACTOR SHALL ADJUST PIPING SYSTEM SIZES AS REQUIRED TO MATCH EQUIPMENT CONNECTIONS. UTILIZE REDUCERS WHERE EQUIPMENT CONNECTIONS ARE SMALLER THAN PIPE SIZES INDICATED ON PLANS, NO PIPING SHALL BE DECREASED IN SIZE (IN THE DIRECTION OF FLOW).
 - EXAMINATION OF BIDDING DOCUMENTS:
 - EACH BIDDER SHALL EXAMINE THE BIDDING DOCUMENTS CAREFULLY AND NOT LATER THAN TEN (10) DAYS PRIOR TO THE DATE FOR RECEIPT OF BIDS, SHALL MAKE WRITTEN REQUEST TO THE ENGINEER FOR INTERPRETATION OR CORRECTION OF ANY AMBIGUITY, INCONSISTENCY, OR ERROR THEREIN. ANY INTERPRETATION OR CORRECTION WILL BE ISSUED AS AN ADDENDUM BY THE ENGINEER. ONLY A WRITTEN INTERPRETATION OR CORRECTION TO BID DOCUMENTS BY ADDENDUM SHALL BE BINDING. NO BIDDER SHALL RELY UPON ANY INTERPRETATION OR CORRECTION GIVEN BY ANY OTHER METHOD.
 - SUBSTITUTIONS:
 - EXCEPT AS PROVIDED BELOW, EACH BIDDER REPRESENTS THAT HIS BID IS BASED UPON THE MATERIALS AND EQUIPMENT DESCRIBED IN THE BIDDING DOCUMENTS.
 - NO SUBSTITUTIONS FOR OTHER MATERIALS AND EQUIPMENT WILL BE CONSIDERED UNLESS WRITTEN REQUEST HAS BEEN SUBMITTED TO THE ENGINEER FOR APPROVAL AT LEAST TEN (10) DAYS PRIOR TO THE DATE FOR RECEIPT OF BIDS. EACH SUCH REQUEST SHALL INCLUDE A COMPLETE DESCRIPTION OF THE PROPOSED SUBSTITUTE, THE NAME OF THE MATERIAL OR EQUIPMENT FOR WHICH IT IS TO BE SUBSTITUTED, DRAWINGS, CUTS, PERFORMANCE AND TEST DATA OR INFORMATION NECESSARY FOR A COMPLETE EVALUATION.
 - IF THE ENGINEER APPROVES ANY PROPOSED SUBSTITUTION, SUCH APPROVAL WILL BE ISSUED AS AN ADDENDUM FORWARDED TO ALL PARTICIPATING BIDDERS.
 - IF ANY BIDDER IS UNABLE TO PROCURE WRITTEN APPROVAL OF ANY SUBSTITUTION FROM THE ENGINEER PRIOR TO THE OPENING OF BIDS, THEN HE SHALL BASE HIS BID ON ITEMS AND SYSTEMS AS SPECIFIED IN BID DOCUMENTS.
 - SUBSTITUTIONS REQUESTED ON THE BID PROPOSAL FORM WHICH ARE PRIOR APPROVED BY THE ENGINEER WILL BE INCORPORATED INTO THE CONTRACT WITH THE SUCCESSFUL BIDDER.
 - REQUESTS FOR ANY SUBSTITUTIONS NOT SUBMITTED AND APPROVED IN ACCORDANCE WITH THE ABOVE INSTRUCTIONS WILL BE DENIED BY THE ENGINEER.
 - REGULATORY REQUIREMENTS:
 - ALL INSTALLATIONS AND EQUIPMENT SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE STATUTES, CODES AND REGULATIONS OF THE GOVERNMENTAL BODIES HAVING JURISDICTION.
 - CONFORM TO THE LATEST EDITION OF THE INTERNATIONAL PLUMBING CODE.
 - CONFORM TO THE LATEST EDITION OF THE INTERNATIONAL FIRE PREVENTION CODE.
 - CONFORM TO THE LATEST EDITION OF THE INTERNATIONAL BUILDING CODE.
 - CUTTING AND PATCHING:
 - SUBMIT WRITTEN REQUEST IN ADVANCE OF CUTTING OR ALTERING ELEMENTS.
 - EMPLOY SKILLED AND EXPERIENCED INSTALLER TO PERFORM CUTTING AND PATCHING WHICH EFFECT:
 - STRUCTURAL INTEGRITY OF ELEMENT.
 - INTEGRITY OF WEATHER.
 - EFFICIENCY, MAINTENANCE, OR SAFETY OF ELEMENT.
 - VISUAL QUALITIES OF SIGHT.
 - WORK OF OWNER OR SEPARATE CONTRACTOR.
- PART 2 - PRODUCTS**
- PIPE HANGERS AND SUPPORTS
 - MANUFACTURERS:
 - B-LINE
 - OTHER ACCEPTABLE MANUFACTURERS OFFERING EQUIVALENT PRODUCTS
 - MICHIGAN HANGER
 - PHD

GENERAL NOTES

- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY FITTINGS AS REQUIRED BY ALL APPLICABLE CODES AND GOVERNING AUTHORITIES.
- CONTRACTOR SHALL VERIFY AND CORRECT AS REQUIRED TO MEET ALL CODES AND REGULATIONS ANY POSSIBLE DISCREPANCIES BETWEEN TYPE AND SIZE OF CONNECTION SPECIFIED IN PLUMBING FIXTURE SCHEDULE AND FIXTURES ACTUALLY INSTALLED ON THE SITE.
- ALL DRAINAGE PIPING 3" AND LARGER SHALL HAVE A MINIMUM 1/4" PER FOOT SLOPE. ALL DRAINAGE PIPING 2" AND SMALLER SHALL HAVE A MINIMUM 1/8" PER FOOT SLOPE, UNLESS OTHERWISE NOTED.
- VENT PIPING SHOWN ON FLOOR PLANS IS ONLY INDICATIVE EXCEPT FOR VTR LOCATIONS.
- VALVES AND FITTINGS SHALL BE OF SAME SIZE OF LINE ON WHICH THEY ARE LOCATED, UNLESS OTHERWISE INDICATED ON DRAWINGS.
- CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES.
- CONTRACTOR SHALL FIELD VERIFY ALL GIVEN MEASUREMENTS PRIOR TO LAYING AND CONNECTING ALL SANITARY AND WASTE PIPING AND NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- AIR CHAMBERS SHALL NOT BE CONSIDERED AN EQUAL TO WATER ARRESTORS AS SPECIFIED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING FIRE RATING AND WEATHERPROOFING INTEGRITY OF ALL PIPING AND PENETRATIONS.
- ALL WATER SUPPLY AND SANITARY LINES SHALL BE RUN AS CLOSE TO PLANS AS POSSIBLE WITH NO CHANGES IN SIZING.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY SUPPORTING DEVICES FOR ALL FIXTURES INCLUDED IN CONTRACT OR HEREIN SPECIFIED OR OTHERWISE.
- CHANGES IN THE DIRECTION OF SANITARY PIPING SHALL NOT BE MADE WITH FITTINGS WHICH WILL CAUSE EXCESSIVE REDUCTION IN THE VELOCITY OF FLOW OR CREATE ANY OTHER ADVERSE EFFECT UNLESS PHYSICALLY IMPOSSIBLE (IE: USE OF SANITARY TEE IN A HORIZONTAL CONNECTION, USE OF A DOUBLE SANITARY TEE IN A VERTICAL STACK, IN GENERAL, USE OF SHORT-RADIUS FITTINGS FOR BRANCH TO HOUSE DRAIN OR STACK CONNECTION).
- ALL DRAINAGE PIPING SHALL BE MARKED WITH THE SEAL OF APPROVAL OF THE NATIONAL SANITATION FOUNDATION.
- DO NOT PENETRATE FOUNDATIONS WITH PIPING, COORDINATE WITH GENERAL CONTRACTOR TO DROP FOUNDATIONS AS REQUIRED TO CLEAR PLUMBING SERVICES WHERE ABSOLUTELY NECESSARY. ALL PIPING PENETRATING A BEARING WALL OR FOOTING MUST BE SLEEVED AND LOCATION APPROVED BY STRUCTURAL ENGINEER.
- ROUTE ALL PIPING CONCEALED ABOVE CEILINGS, WITHIN WALLS, OR IN CHASES. PIPING EXPOSED SHALL BE SLOPED AND PAINTED TO MATCH ARCHITECTURAL FINISHES. PIPING IN MECHANICAL ROOMS MAY BE EXPOSED.
- PROVIDE ACCESS PANELS TO ALL VALVES WITHIN CHASES OR ABOVE NON-ACCESSIBLE CEILINGS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
- SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF PLUMBING FIXTURE MOUNTING HEIGHTS, AND DIMENSIONS.
- CONTRACTOR SHALL VERIFY INVERT ELEVATIONS OF SEWERS TO WHICH NEW SEWER LINES ARE TO BE CONNECTED BEFORE INSTALLATION OF NEW SEWER LINE.
- ALL VENTS THROUGH ROOF SHALL BE MINIMUM OF 10'-0" FROM ANY AIR INTAKES.
- CONTRACTOR SHALL INSTALL DIELECTRIC UNIONS AT CONNECTIONS OF DISSIMILAR METALS.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS (INCLUDING PIPE ROUTING AND EQUIPMENT LOCATIONS) TO ARCHITECT/ENGINEER FOR REVIEW AND APPROVAL PRIOR TO THE INSTALLATION OR PURCHASING OF ANY PIPING AND/OR EQUIPMENT.
- PROVIDE 1/2" C.W. SUPPLY WITH ANGLE STOP AND FLEXIBLE SUPPLY TO REFRIGERATORS WITH ICE MAKERS AT HEIGHT REQUIRED BY MANUFACTURER OF EQUIPMENT INSTALLED.
- PROVIDE 1/2" H.W. SUPPLY WITH ANGLE STOP AND FLEXIBLE SUPPLY TO DISHWASHER MACHINE, AT HEIGHT REQUIRED BY MANUFACTURER OF EQUIPMENT INSTALLED.
- ALL WATER PIPING INSTALLED IN EXTERIOR WALLS SHALL BE PLACED ON THE INTERIOR SIDE OF THE WALL, SO THAT WALL INSULATION CAN BE PLACED ON THE EXTERIOR SIDE OF THE PIPING.
- FIELD VERIFICATION OF EXISTING PIPING: ALL EXISTING PIPING SHOWN ON THE CONSTRUCTION DOCUMENTS IS BASED OFF OF VISUAL SITE INVESTIGATION AND AS BUILT DRAWINGS OF THE EXISTING SITE AND BUILDING CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE LICENSED PLUMBING CONTRACTOR TO FIELD VERIFY ALL EXISTING PIPING LOCATIONS, TYPES, SIZES, ELEVATIONS AND INVERTS. NOTIFY ENGINEER IF THE CONDITIONS ARE NOT AS SHOWN ON THE PLANS OR AS STATED IN THE SPECIFICATIONS PRIOR TO THE INITIATION OF ANY WORK. IDENTIFICATION AND VERIFICATION OF EXISTING PIPING TO BE ACCOMPLISHED BY THE FOLLOWING MEANS:
 - MANDATORY DYE TESTING OF ALL EXISTING SANITARY, STORM AND GREASE WASTE PIPING FOR SYSTEM IDENTIFICATION.
 - SNAKE ALL SANITARY, STORM AND GREASE WASTE PIPING FOR A DISTANCE OF 100 FEET AND REPORT ANY BLOCKAGES.
 - TEST WATER PRESSURE TO INSURE MINIMUM PSI MATCHES MOST DEMANDING EQUIPMENT SUPPLIED OR TO BE INSTALLED.
 - ALL IDENTIFICATION AND VERIFICATION RESULTS SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW PRIOR TO THE INITIATION OF ANY WORK.
- IF NO PLUMBING ELEVATION OR INVERT IS NOTED ON PLANS THE MINIMUM DEPTH OF THE PLUMBING TO CIVIL CONNECTION SHALL BE CALCULATED BASED ON THE FURTHERS POSSIBLE PLUMBING FIXTURE DISTANCE TIMES 1%. TOTAL LINE LENGTH*1%-DEPTH B.F.F. AT CIVIL POINT OF CONNECTION.



ISSUE HISTORY		
No.	Date	Description
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No.	Date	Description

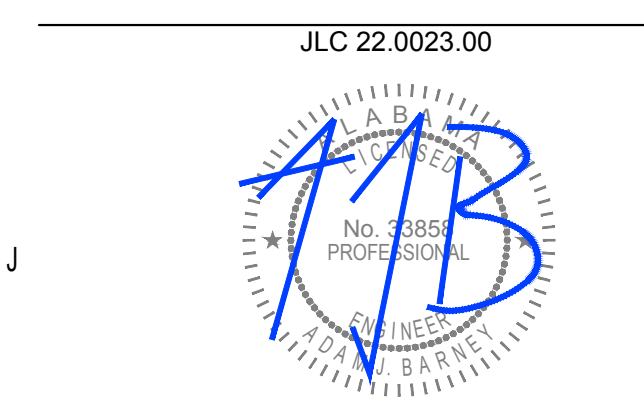
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THE MADISON

HUNTSVILLE, AL

SYMBOL LEGEND & GENERAL NOTES PLUMBING

P0.01

Drawn	MJRSMB
Checked	BLSAJB
Approved	BLSAJB
Date	04/15/2022
Project #	572



GENERAL NOTES:

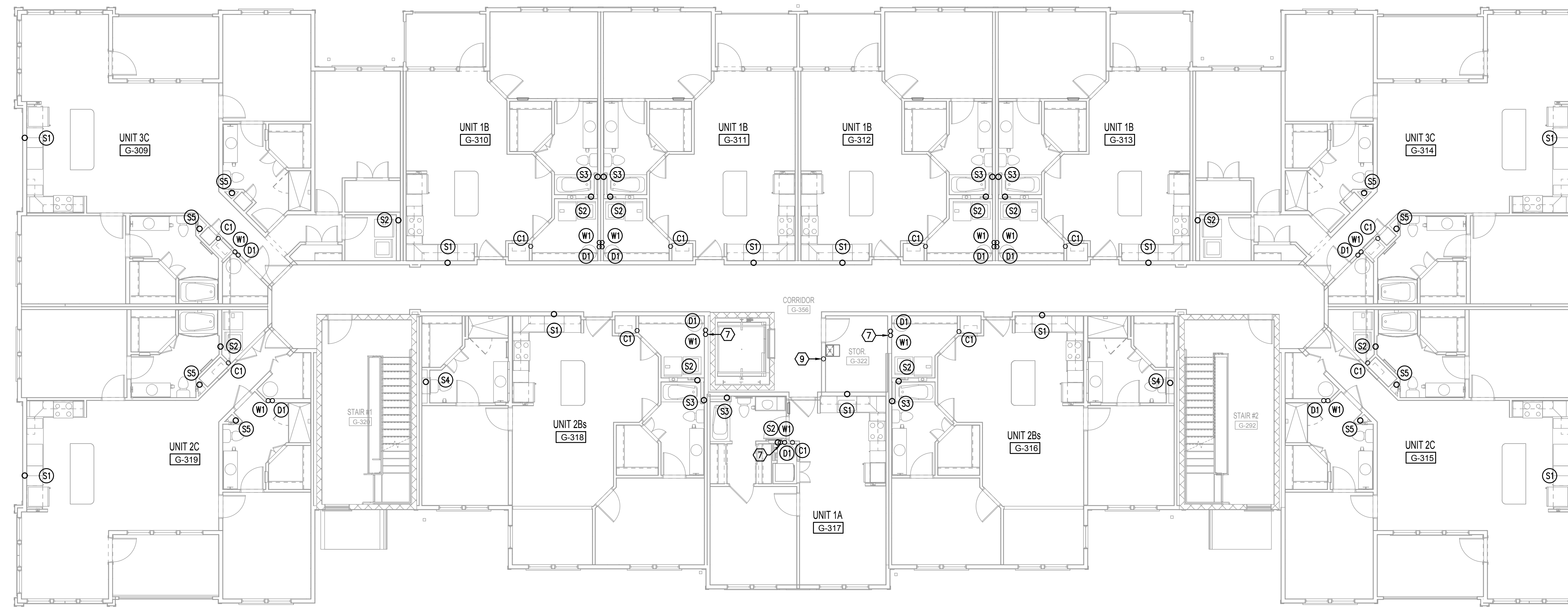
1. PROVIDE WALL CLEAN OUTS AT THE BASE OF ALL SANITARY STACKS, CONDENSATE STACKS, AND RAIN LEADERS 30" APFT. WHERE A HORIZONTAL DRAINAGE PIPE HAS A CHANGE OF HORIZONTAL DIRECTION GREATER THAN 45 DEGREES, A CLEANOUT SHALL BE INSTALLED AT THE CHANGE OF DIRECTION. WHERE MORE THAN ONE CHANGE OF HORIZONTAL DIRECTION GREATER THAN 45 DEGREES OCCURS WITHIN 40 FEET OF DEVELOPED LENGTH OF PIPING, THE CLEANOUT INSTALLED FOR THE FIRST CHANGE OF DIRECTION SHALL SERVE AS THE CLEANOUT FOR ALL CHANGES IN DIRECTION WITHIN THAT 40 FEET OF DEVELOPED LENGTH OF PIPING.
2. PROVIDE SHUT-OFF VALVE AT THE BASE OF EVERY WATER RISER. ALL SHUT-OFF VALVES SHALL BE FULLY ACCESSIBLE. SEE ARCHITECTURAL DRAWINGS FOR RATED WALLS AND CEILINGS, AND PROVIDE RATED ACCESS PANELS.
3. SEE SHEET P4.01 FOR RISER DIAGRAMS.
4. PROVIDE TRAP PRIMER VALVES TPV-1 WITH SHUT OFF VALVE AND 1/2" CW SUPPLY TO EACH FLOOR DRAIN. ALL VALVES SHALL BE FULLY ACCESSIBLE.
5. INSTALL WATER HAMMER SHOCK ARRESTORS AT ICE MAKERS, DISHWASHERS, WASHER BOXES, AND AT ALL QUICK CLOSING SOLENOID VALVES. SIZE SHOCK ARRESTORS PER PLUMBING AND DRAINAGE INSTITUTE STANDARD P.D.I. WH-201. SHOCK ARRESTORS SHALL CONFORM TO ASSE 1010. ACCEPTABLE MANUFACTURERS - SIOUX CHIEF, PRECISION PLUMBING PRODUCTS INC., FOR 1-11 F.U.'S PROVIDE PDI-A, 12-32 F.U.'S PDI-B, 33-66 F.U.'S PDI-C. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
6. ALL FREEZE PROOF WALL HYDRANTS/HOSE BIBS TO BE COORDINATED WITH WALL THICKNESS TO ENSURE PROPER INSTALLATION DEPTH PRIOR TO CONSTRUCTION.

PLUMBING FIXTURE UNIT CALCULATION

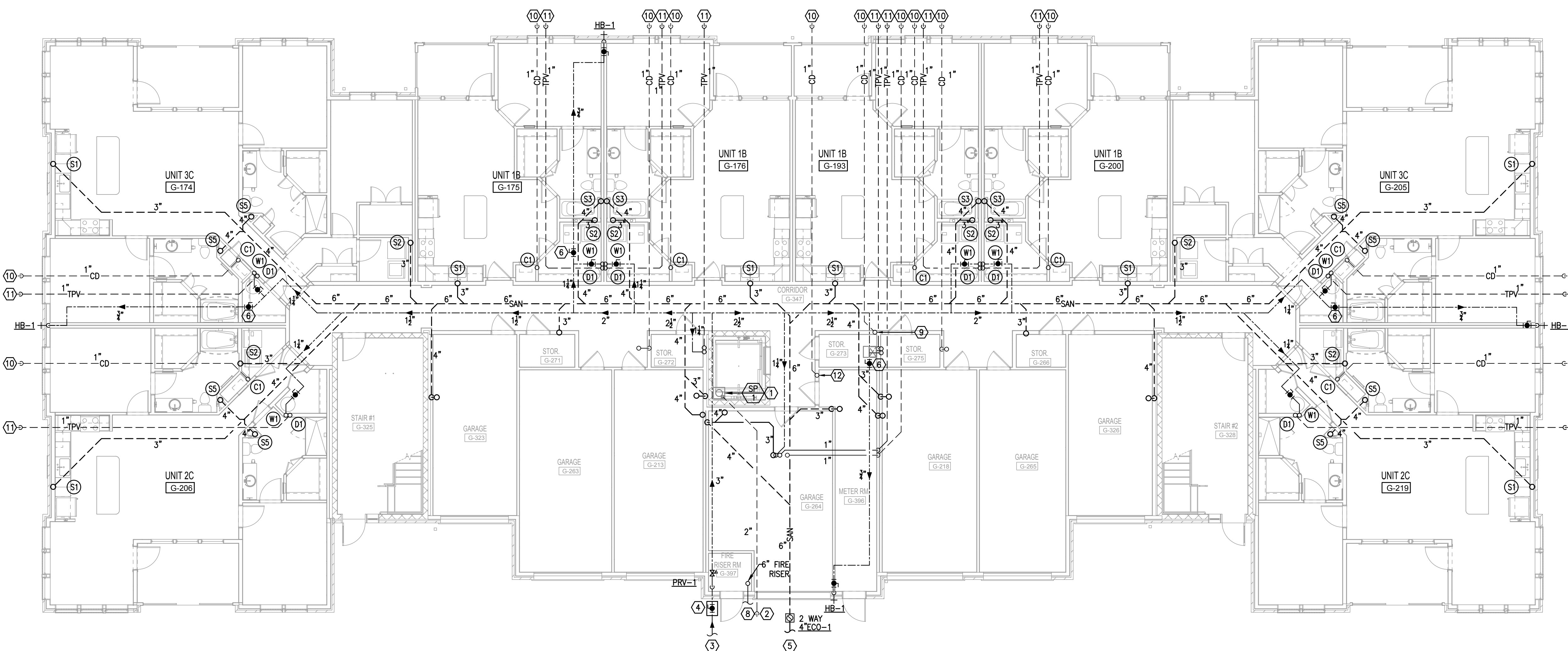
TYPE OF SERVICE	WATER	SANITARY
FIXTURE UNIT COUNT TOTAL	401	561
TOTAL GALLONS PER MINUTE	105	---
SIZE OF SERVICE CONNECTION	3"	6"

REFERENCE NOTES: (X)

1. ELEVATOR SUMP PUMP. SEE SCHEDULE AND DETAIL.
2. ROUTE SUMP PUMP DISCHARGE BELOW GRADE TO EXTERIOR AND TERMINATE ABOVE GROUND WITH WEATHERPROOF GOOSENECK FITTING.
3. 3" POTABLE CW SUPPLY BELOW GRADE, FOR CONTINUATION SEE CIVIL DRAWINGS.
4. SHUT-OFF VALVE AND WATER METER IN CAST IRON ACCESS BOX FLUSH WITH PAVEMENT.
5. 6" SANITARY SEWER BELOW GRADE FOR CONTINUATION SEE CIVIL DRAWINGS. INV. EL. = (-3'-6" BFF)
6. SHUT-OFF VALVE WITHIN RATED ACCESS PANEL, TYPICAL.
7. PROVIDE RISER SHUT-OFF VALVE WITHIN CLOSET.
8. 6" FIRE SPRINKLER SUPPLY BELOW GROUND, FOR CONTINUATION SEE CIVIL DRAWINGS.
9. 2" CONDENSATE DRAIN CONNECTION TO AC UNIT. 1" CONDENSATE DRAIN DOWN.
10. TERMINATE CONDENSATE DRAIN PIPING ABOVE GRADE AT EXTERIOR WITH SCREENED WEATHERPROOF FITTING, SEE DETAIL.
11. TERMINATE WATER HEATER DRAIN PAN PIPING ABOVE GROUND AT EXTERIOR.
12. 1" CONDENSATE DRAIN DOWN.



F1 BUILDING TYPE B - 2ND LEVEL - PLUMBING
1/8" = 1'-0"



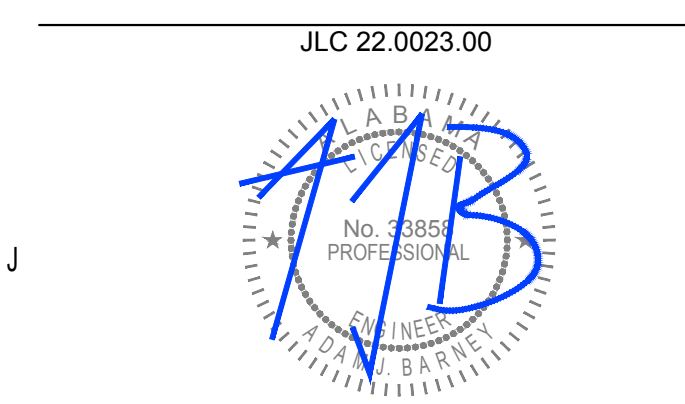
K1 BUILDING TYPE B - GROUND LEVEL - PLUMBING
1/8" = 1'-0"

ISSUE HISTORY

No.	Date	Description
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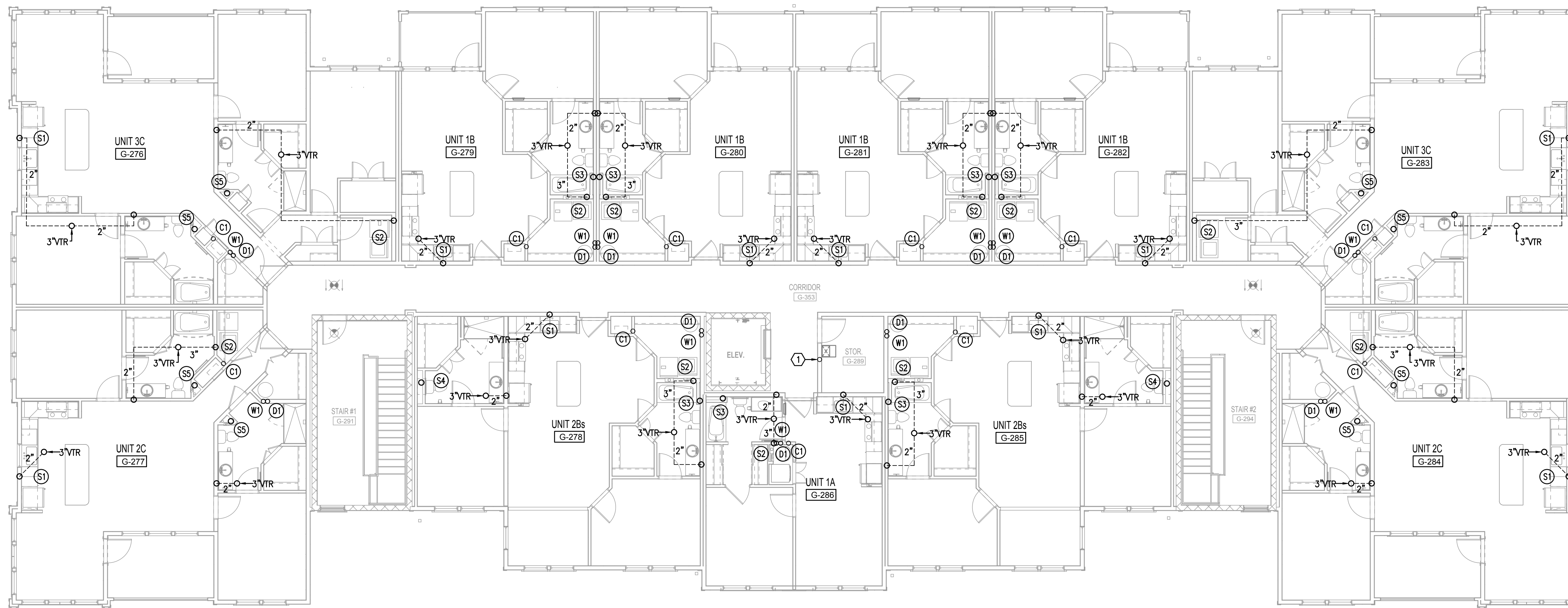
THE MADISON
HUNTSVILLE, AL
BUILDING TYPE B
GROUND & 2ND LEVEL
PLUMBING
P2.04

Drawn: MRSMB
Checked: BLS/AB
Approved: BLS/AB
Date: 04/15/2022
Project #: 5722

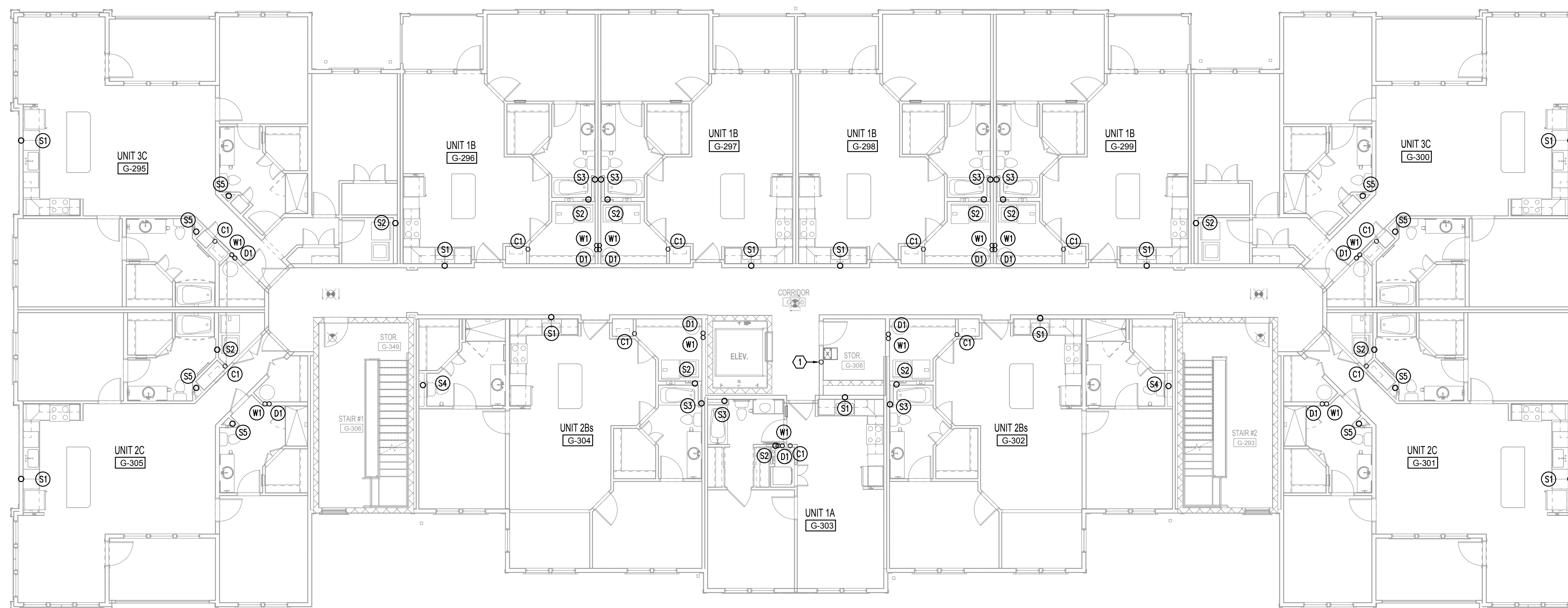


REFERENCE NOTES: (X)

(1) 2" CONDENSATE DRAIN CONNECTION TO AC UNIT. 1" CONDENSATE DRAIN DOWN.



F1 BUILDING TYPE B - 4TH LEVEL - PLUMBING
1/8" = 1'-0"



K1 BUILDING TYPE B - 3RD LEVEL - PLUMBING
1/8" = 1'-0"

ISSUE HISTORY

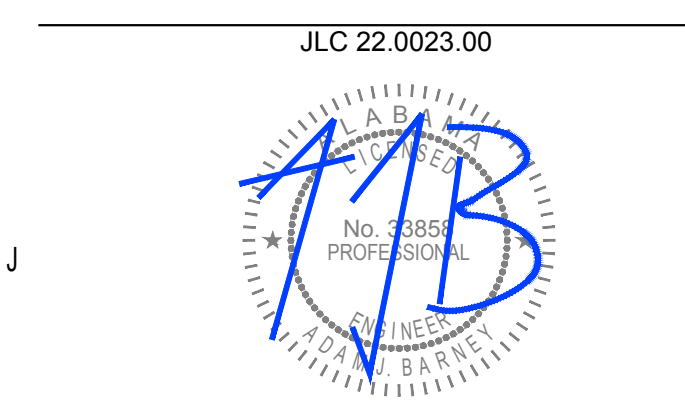
No.	Date	Description
1	04/15/22	Permit Submission

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THE MADISON
 HUNTSVILLE, AL
 BUILDING TYPE B
 3RD & 4TH LEVEL
 PLUMBING
P2.05

Drawn	M/R/SMB
Checked	BLSA/B
Approved	BLSA/B
Date	04/15/2022
Project #	5722

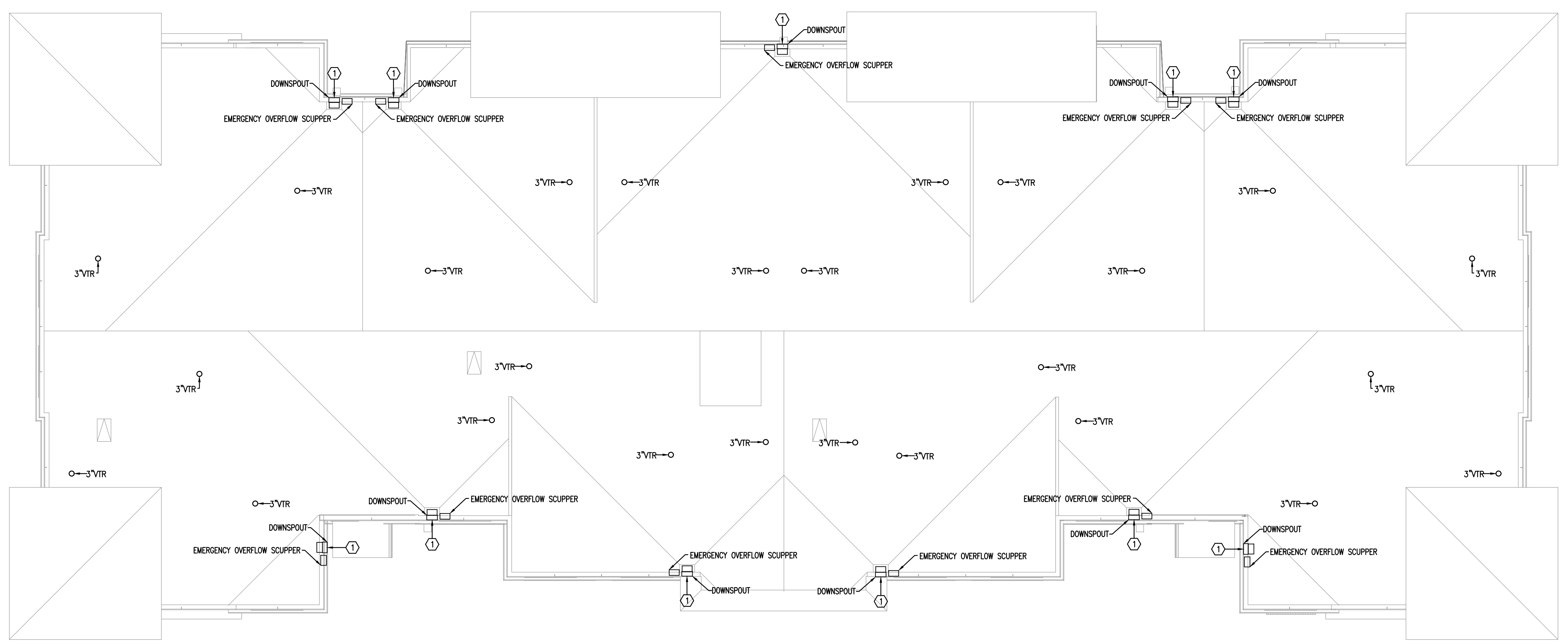


REFERENCE NOTES

① SEE ARCH. DRAWINGS FOR CONTINUATION/MORE INFORMATION ON GUTTERS/SCUPPER DRAINS.

GENERAL NOTES:

A. ALL PLUMBING VENTS TO BE A MINIMUM OF 10'-0" AWAY FROM ANY OUTSIDE AIR INTAKE. FIELD COORDINATE EXACT LOCATIONS.



K1 BUILDING TYPE B - ROOF PLAN - PLUMBING
1/8" = 1'-0"

ISSUE HISTORY

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THE MADISON
HUNTSVILLE, AL

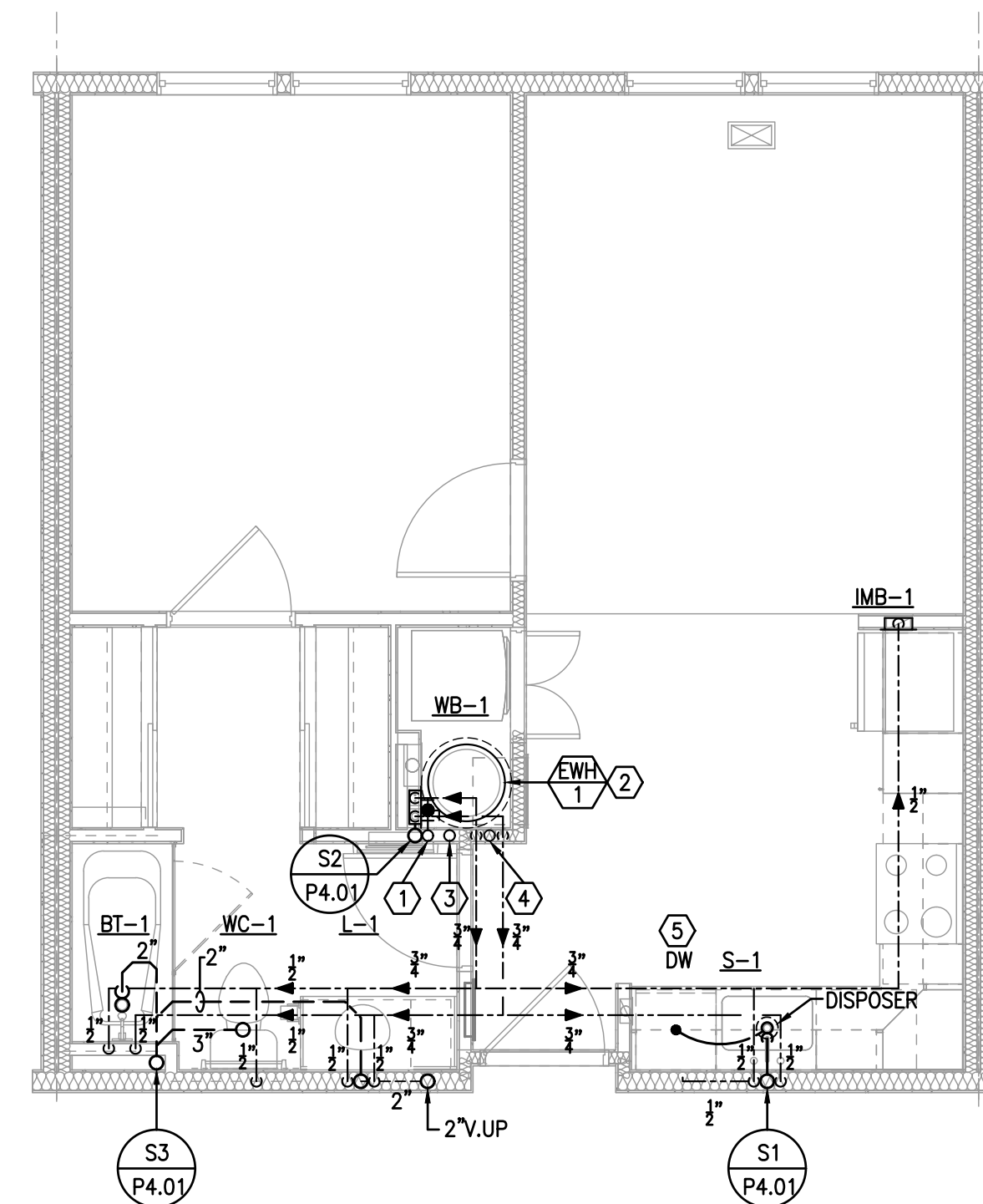
Drawn	MJRSMB
Checked	BLSA/B
Approved	BLSA/B
Date	04/15/2022
Project #	5722

**BUILDING TYPE B
ROOF PLAN
PLUMBING**

P2.06

REFERENCE NOTES: (X)

- ① COLD WATER RISER WITH UNIT SHUT-OFF VALVE & REMOTE READ SUB-METER. CONTRACTOR TO INSTALL SUB-METER FURNISHED BY OWNER. SEE BUILDING PLAN FOR RISER TAG.
- ② ELECTRIC WATER HEATER, SEE SCHEDULE & DETAIL.
- ③ WATER HEATER PAN DRAIN RISER. SEE BUILDING PLANS & RISER DIAGRAMS.
- ④ A/C CONDENSATE DRAIN RISER. SEE BUILDING PLANS & RISER DIAGRAMS.
- ⑤ 1" HW TO DISHWASHER WITH SHUT-OFF VALVE AND ASSE 1024 DUAL CHECK BACKFLOW DEVICE WATTS NO. SD-2. CONNECT DISHWASHER DRAIN TO DISPOSER.



G5 UNIT 1A - PLUMBING
1/4" = 1'-0"



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THE MADISON

HUNTSVILLE, AL

ENLARGED UNIT PLANS
PLUMBING

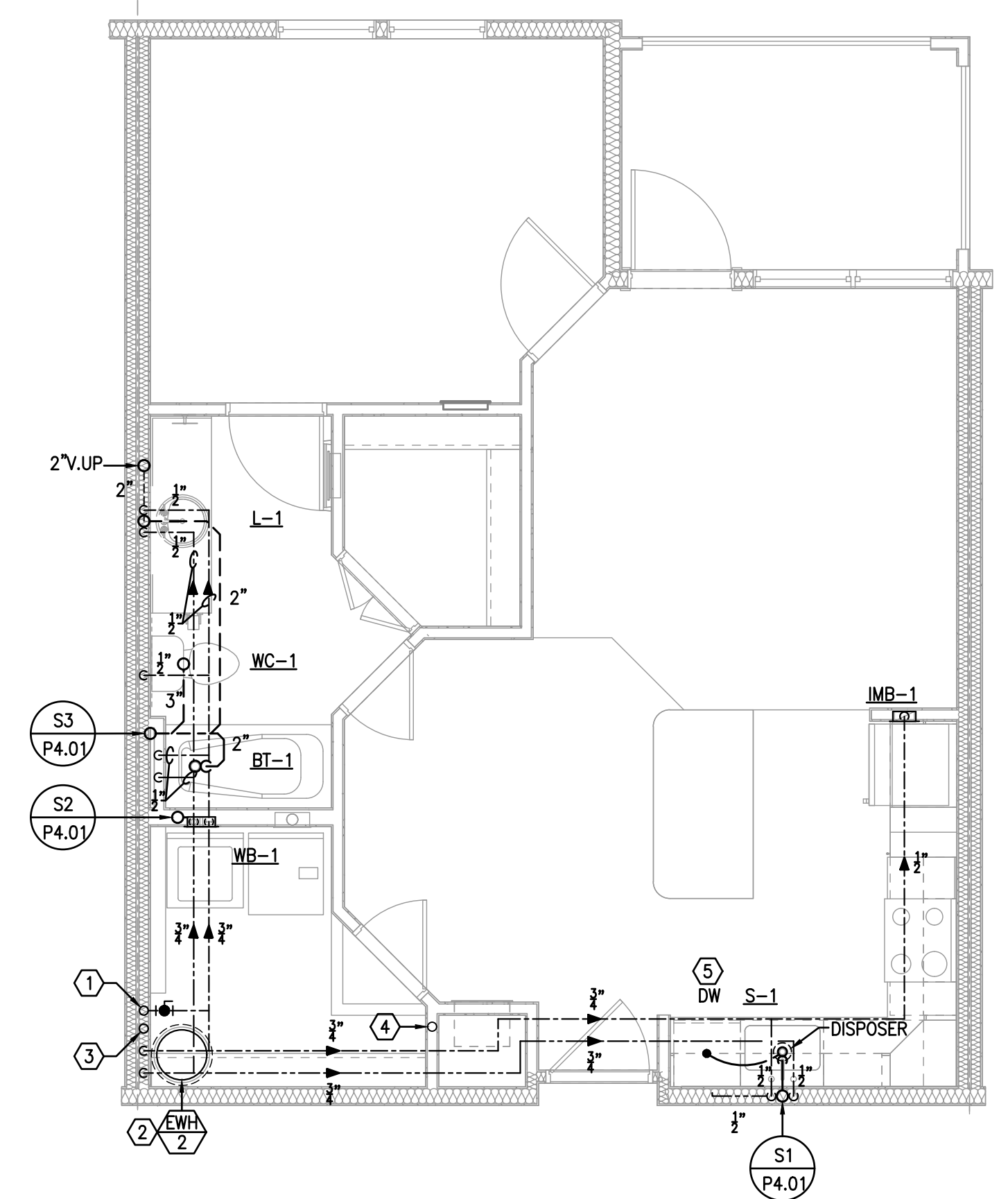
P3.01

Drawn	MJRSMB
Checked	BLSA,IB
Approved	BLSA,IB
Date	04/15/2022
Project#	572



REFERENCE NOTES: (X)

- ① COLD WATER RISER WITH UNIT SHUT-OFF VALVE & REMOTE READ SUB-METER. CONTRACTOR TO INSTALL SUB-METER FURNISHED BY OWNER. SEE BUILDING PLAN FOR RISER TAG.
- ② ELECTRIC WATER HEATER, SEE SCHEDULE & DETAIL.
- ③ WATER HEATER PAN DRAIN RISER. SEE BUILDING PLANS & RISER DIAGRAMS.
- ④ A/C CONDENSATE DRAIN RISER. SEE BUILDING PLANS & RISER DIAGRAMS.
- ⑤ 1" HW TO DISHWASHER WITH SHUT-OFF VALVE AND ASSE 1024 DUAL CHECK BACKFLOW DEVICE WATTS NO. SD-2. CONNECT DISHWASHER DRAIN TO DISPOSER.



G5 UNIT 1B - PLUMBING
1/4" = 1'-0"

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1	04/15/22	Permit Submission

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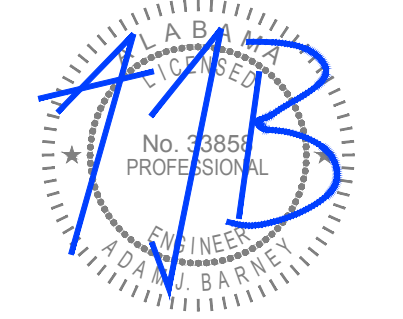
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THE MADISON	Drawn: MJS/MB
HUNTSVILLE, AL	Checked: BLS/AB
	Approved: BLS/AB
	Date: 04/15/2022
	Project#: 5722

**ENLARGED UNIT PLANS
PLUMBING**

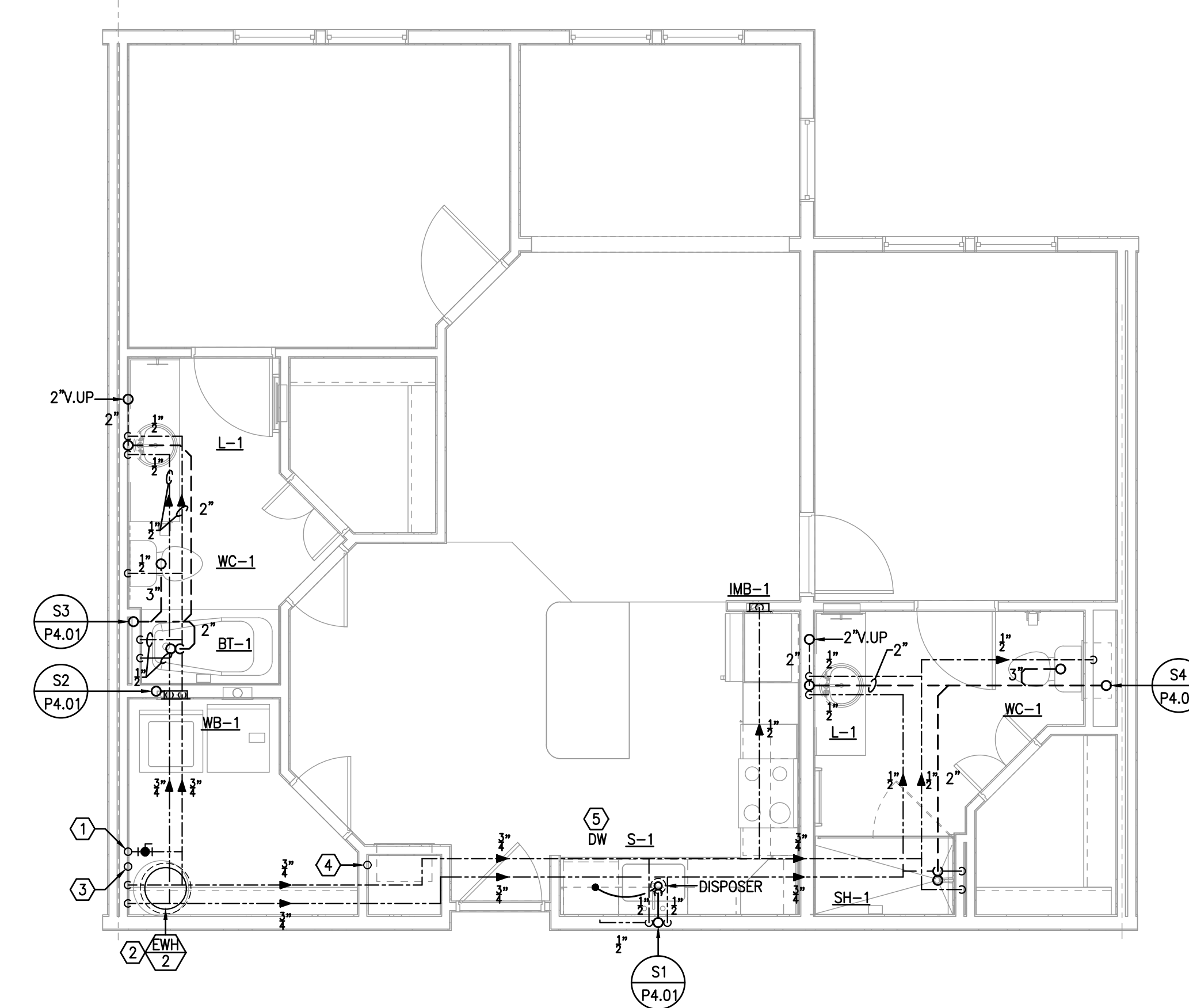
P3.02

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REFERENCE NOTES: (X)

- ① COLD WATER RISER WITH UNIT SHUT-OFF VALVE & REMOTE READ SUB-METER. CONTRACTOR TO INSTALL SUB-METER FURNISHED BY OWNER. SEE BUILDING PLAN FOR RISER TAG.
- ② ELECTRIC WATER HEATER, SEE SCHEDULE & DETAIL.
- ③ WATER HEATER PAN DRAIN RISER. SEE BUILDING PLANS & RISER DIAGRAMS.
- ④ A/C CONDENSATE DRAIN RISER. SEE BUILDING PLANS & RISER DIAGRAMS.
- ⑤ 1" HW TO DISHWASHER WITH SHUT-OFF VALVE AND ASSE 1024 DUAL CHECK BACKFLOW DEVICE WATTS NO. SD-2. CONNECT DISHWASHER DRAIN TO DISPOSER.



G5 UNIT 2Bs - PLUMBING
1/4" = 1'-0"

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No.	Date	Description
1	04/15/22	Permit Submission

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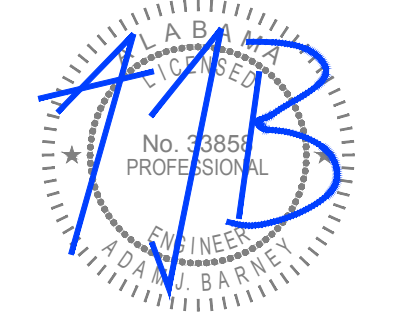


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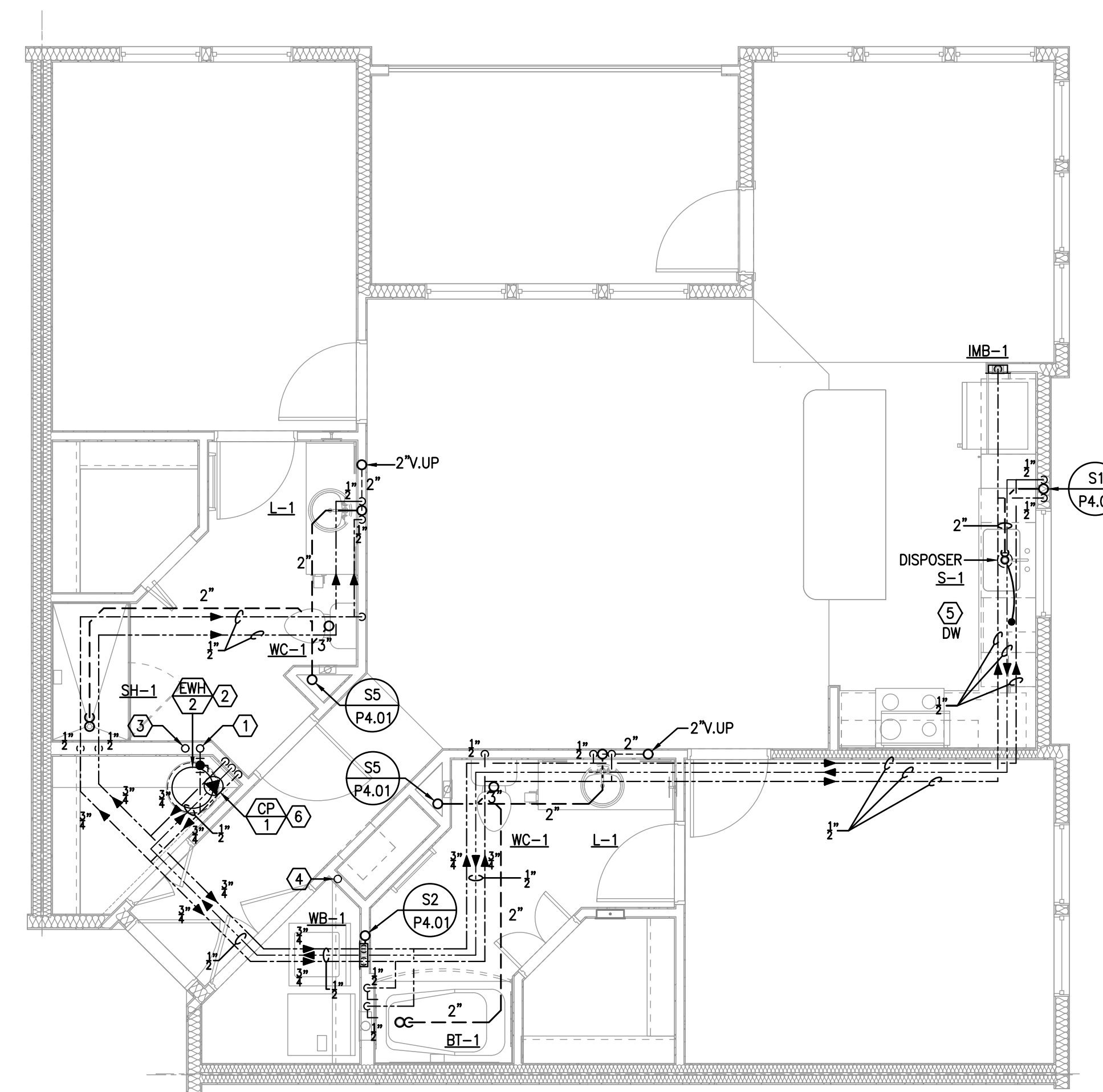
THE MADISON	Drawn: MJS/MB
HUNTSVILLE, AL	Checked: BLS/AB
	Approved: BLS/AB
	Date: 04/15/2022
	Project#: 572

ENLARGED UNIT PLANS
PLUMBING

P3.05

REFERENCE NOTES: (X)

- ① COLD WATER RISER WITH UNIT SHUT-OFF VALVE & REMOTE READ SUB-METER. CONTRACTOR TO INSTALL SUB-METER FURNISHED BY OWNER. SEE BUILDING PLAN FOR RISER TAG.
- ② ELECTRIC WATER HEATER, SEE SCHEDULE & DETAIL.
- ③ WATER HEATER PAN DRAIN RISER. SEE BUILDING PLANS & RISER DIAGRAMS.
- ④ A/C CONDENSATE DRAIN RISER. SEE BUILDING PLANS & RISER DIAGRAMS.
- ⑤ 1" HW TO DISHWASHER WITH SHUT-OFF VALVE AND ASSE 1024 DUAL CHECK BACKFLOW DEVICE WATTS NO. SD-2. CONNECT DISHWASHER DRAIN TO DISPOSER.
- ⑥ HOT WATER CIRCULATION PUMP, SEE SCHEDULE & DETAIL.



G5 UNIT 2C - PLUMBING
1/4" = 1'-0"



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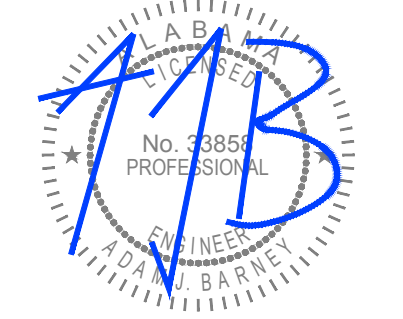
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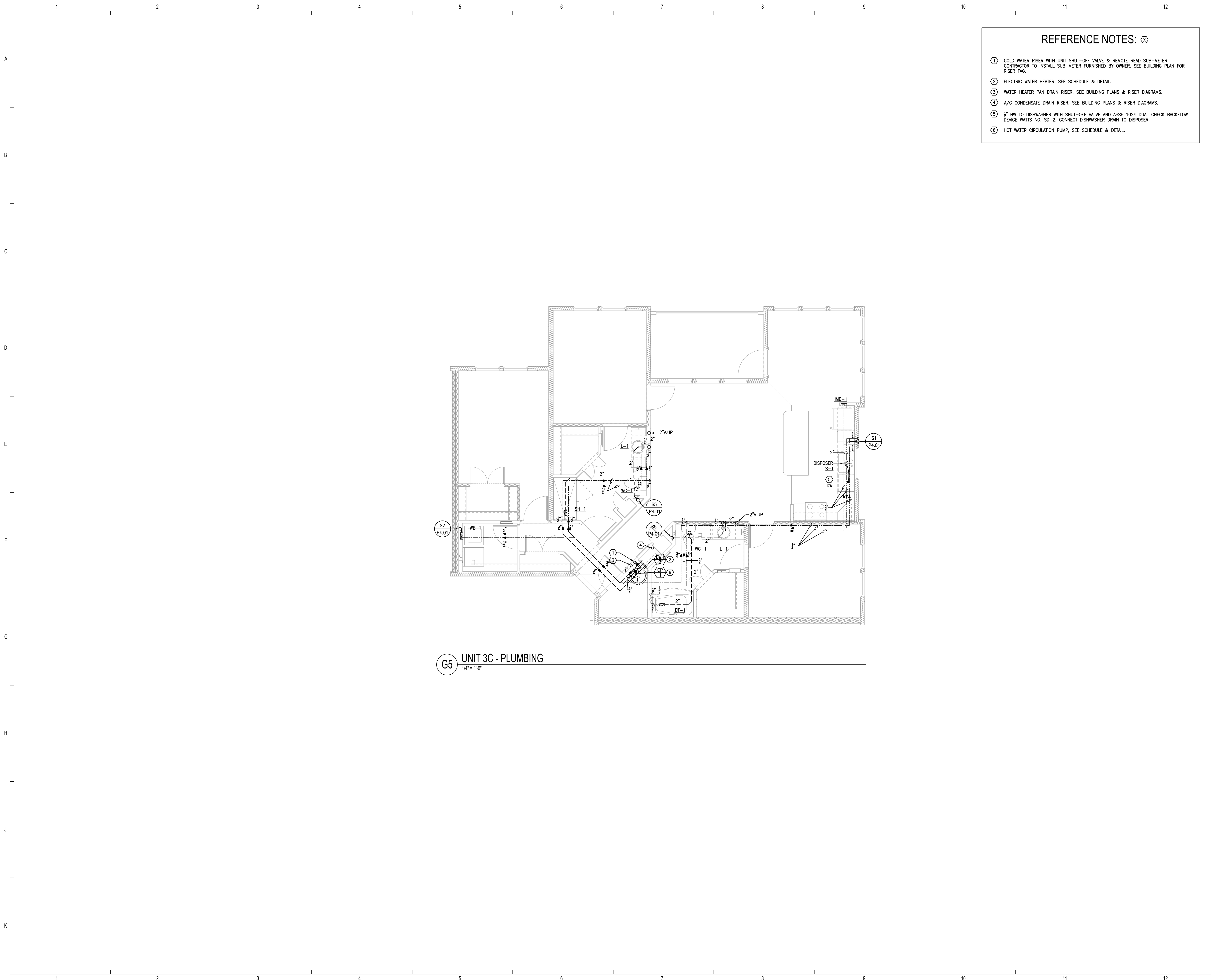
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THE MADISON	Drawn: MJS/SMB
HUNTSVILLE, AL	Checked: BLSA/B
	Approved: BLSA/B
	Date: 04/15/2022
	Project#: 5722

ENLARGED UNIT PLANS
PLUMBING

P3.06



G5 UNIT 3C - PLUMBING
1/4" = 1'-0"

- REFERENCE NOTES:** (X)
- ① COLD WATER RISER WITH UNIT SHUT-OFF VALVE & REMOTE READ SUB-METER. CONTRACTOR TO INSTALL SUB-METER FURNISHED BY OWNER. SEE BUILDING PLAN FOR RISER TAG.
 - ② ELECTRIC WATER HEATER, SEE SCHEDULE & DETAIL.
 - ③ WATER HEATER PAN DRAIN RISER. SEE BUILDING PLANS & RISER DIAGRAMS.
 - ④ A/C CONDENSATE DRAIN RISER. SEE BUILDING PLANS & RISER DIAGRAMS.
 - ⑤ 3" HW TO DISHWASHER WITH SHUT-OFF VALVE AND ASSE 1024 DUAL CHECK BACKFLOW DEVICE WATTS NO. SD-2. CONNECT DISHWASHER DRAIN TO DISPOSER.
 - ⑥ HOT WATER CIRCULATION PUMP, SEE SCHEDULE & DETAIL.



ISSUE HISTORY

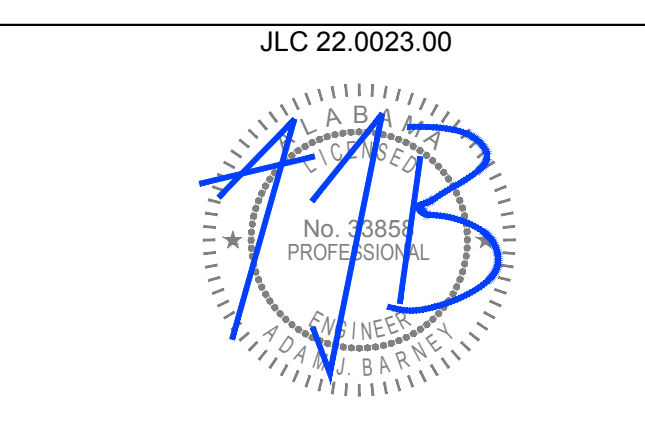
No.	Date	Description
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THE MADISON
 HUNTSVILLE, AL

Drawn	MJRSMB
Checked	BLSA/B
Approved	BLSA/B
Date	04/15/2022
Project #	572

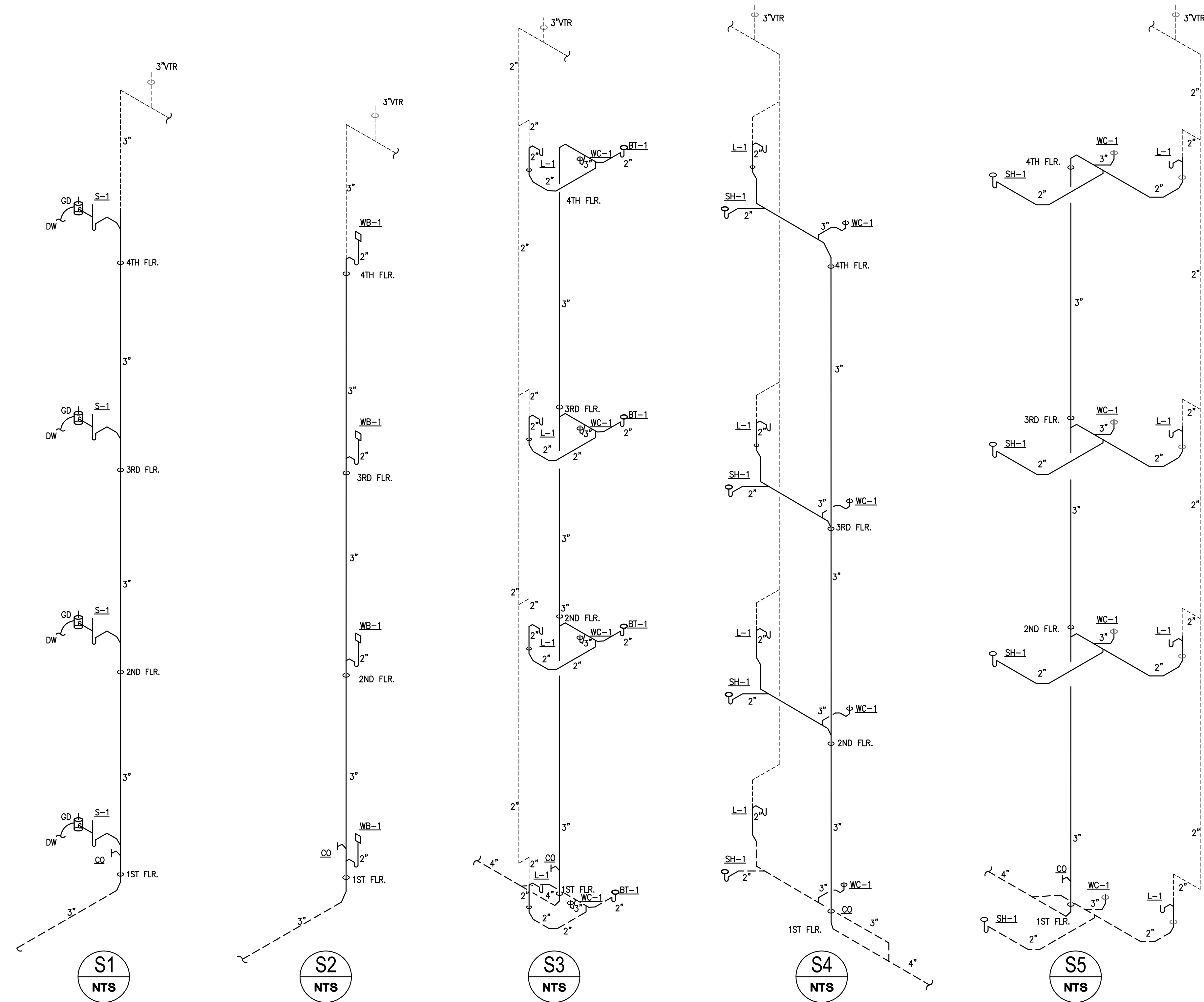
**ENLARGED UNIT PLANS
 PLUMBING**

P3.07

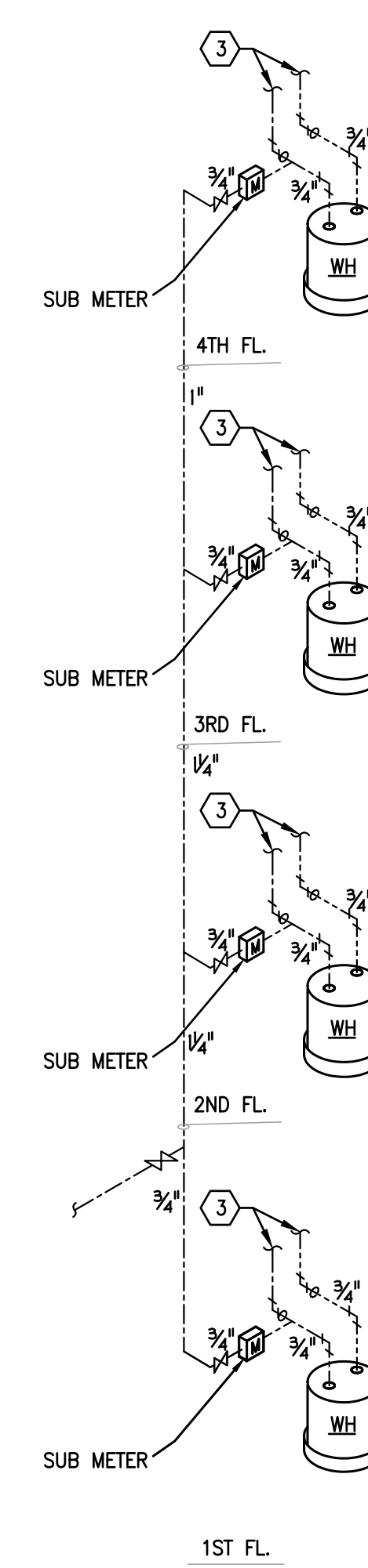


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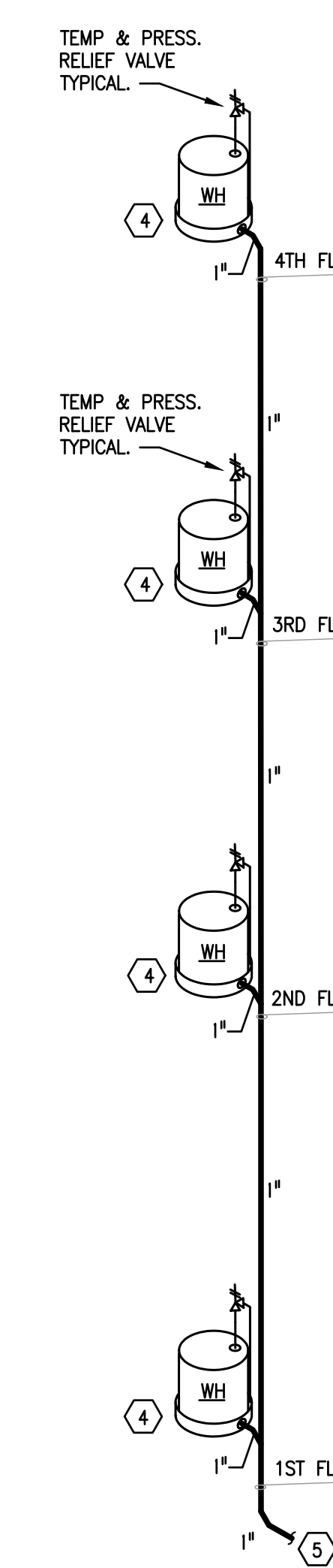
- ① CW & HW TO UNIT. CONNECT TO PLUMBING FIXTURES WITHIN UNIT.
- ② ELECTRIC WATER HEATER. REFER TO WATER HEATER SCHEDULE AND DETAIL.
- ③ DRAIN PAN PIPING DISCHARGE TO BUILDING EXTERIOR, TERMINATE ABOVE GRADE A MIN OF 1'-0" AWAY FROM BUILDING. REFER TO PLUMBING DETAILS.
- ④ CONDENSATE DRAIN PIPING DISCHARGE TO BUILDING EXTERIOR, TERMINATE ABOVE GRADE A MIN OF 1'-0" AWAY FROM BUILDING. REFER TO PLUMBING DETAILS.
- ⑤ CONDENSATE DRAIN PIPING FROM AC UNIT.



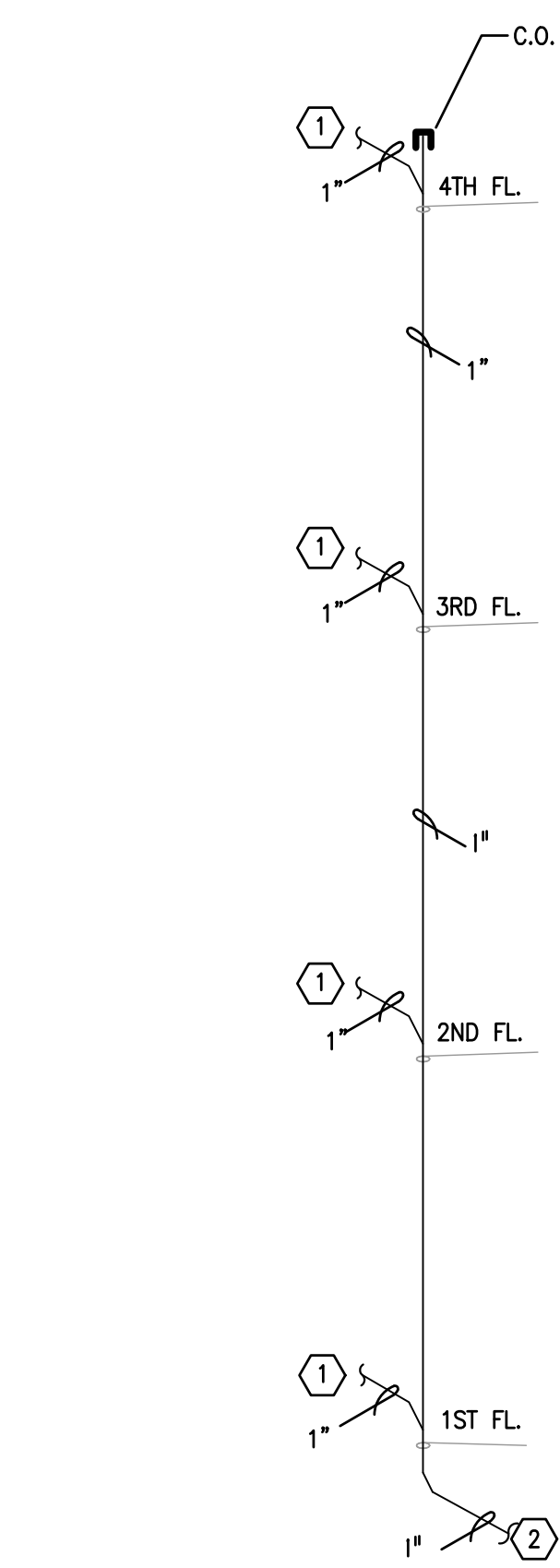
SANITARY RISER DIAGRAMS
NTS



W1 WATER RISER
NTS
DIAGRAM



D1 PAN DRAIN RISER
NTS
DIAGRAM



C1 CONDENSATE RISER
NTS
DIAGRAM

ISSUE HISTORY

No.	Date	Description
1	04/15/22	Permit Submission

REVISION HISTORY

No.	Date	Description

FUGLEBERG KOCH
2555 Temple Trail, Winter Park, FL 32789 (407) 629-0595
www.fuglebergkoch.com AA26002103

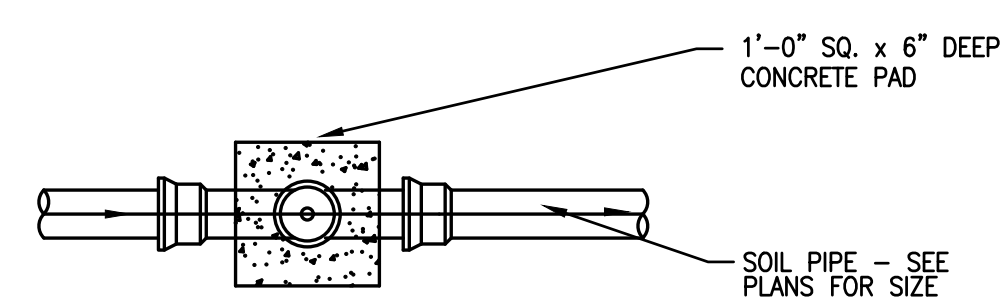
CONSULTANT
Joseph, Lawrence & Co
Consulting Engineers
1180 HARWOOD AVE, SUITE 3000
ALTA MONTÉ SPRINGS, FLORIDA 32714
TEL: 321.972.4464
WWW.JLCENG.COM
CA NO. 4050 - 1

JLC 22.0023.00
AS
No. 3885
PROJECT SIGNATURE

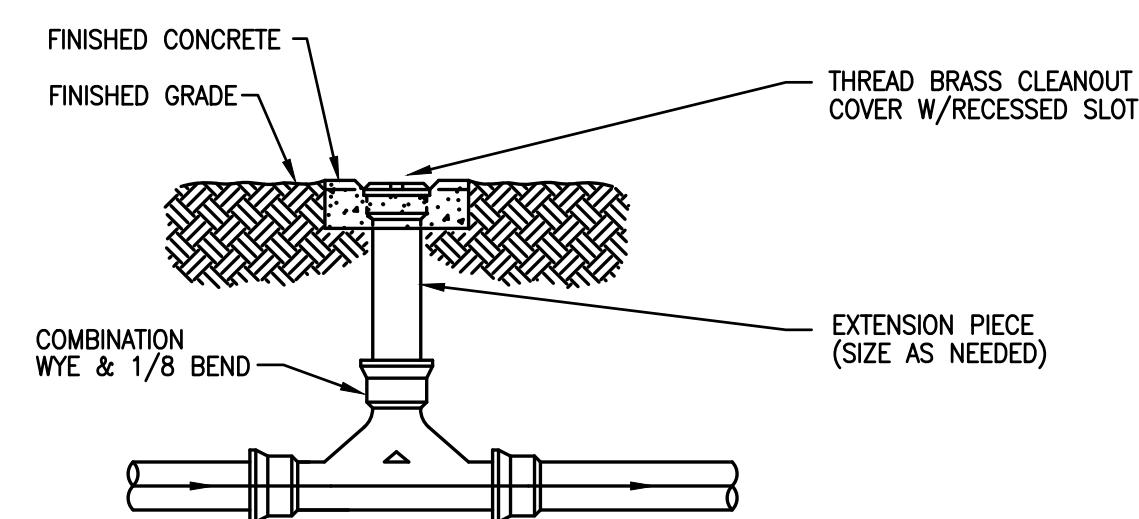
Drawn	MJRSMB
Checked	BLSAJB
Approved	BLSAJB
Date	04/15/2022
Project #	572

RISER DIAGRAMS
PLUMBING

P4.01

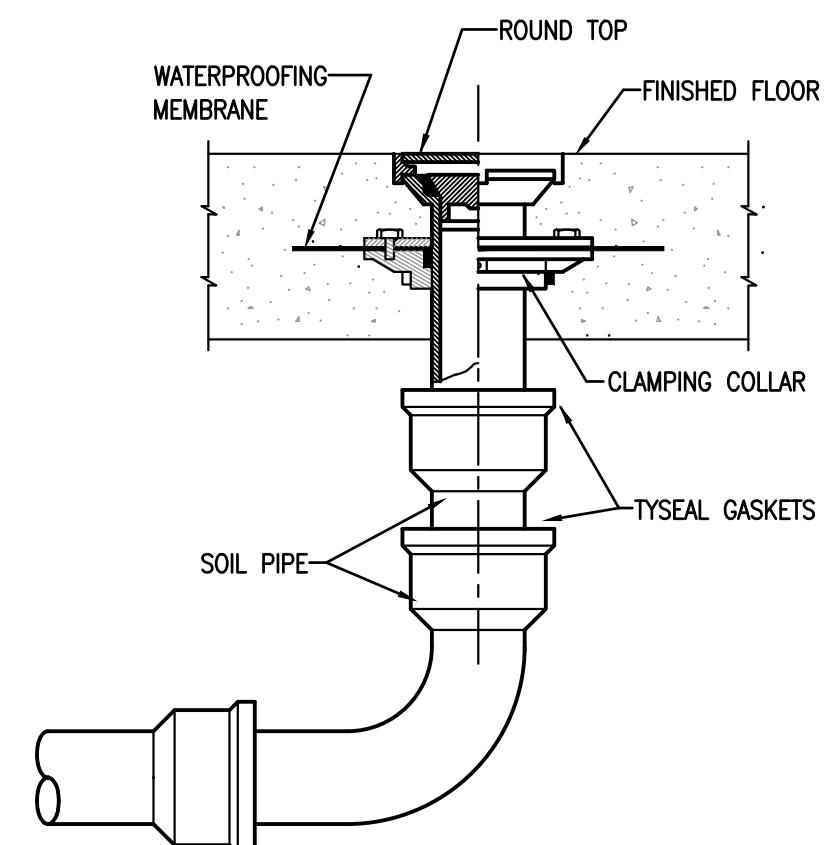


PLAN

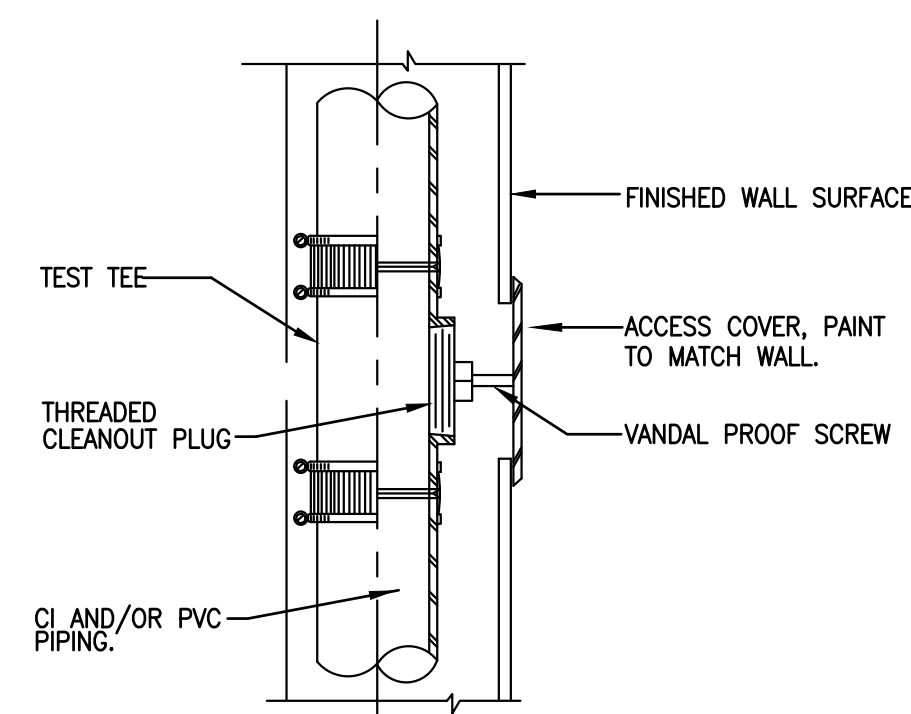


ELEVATION

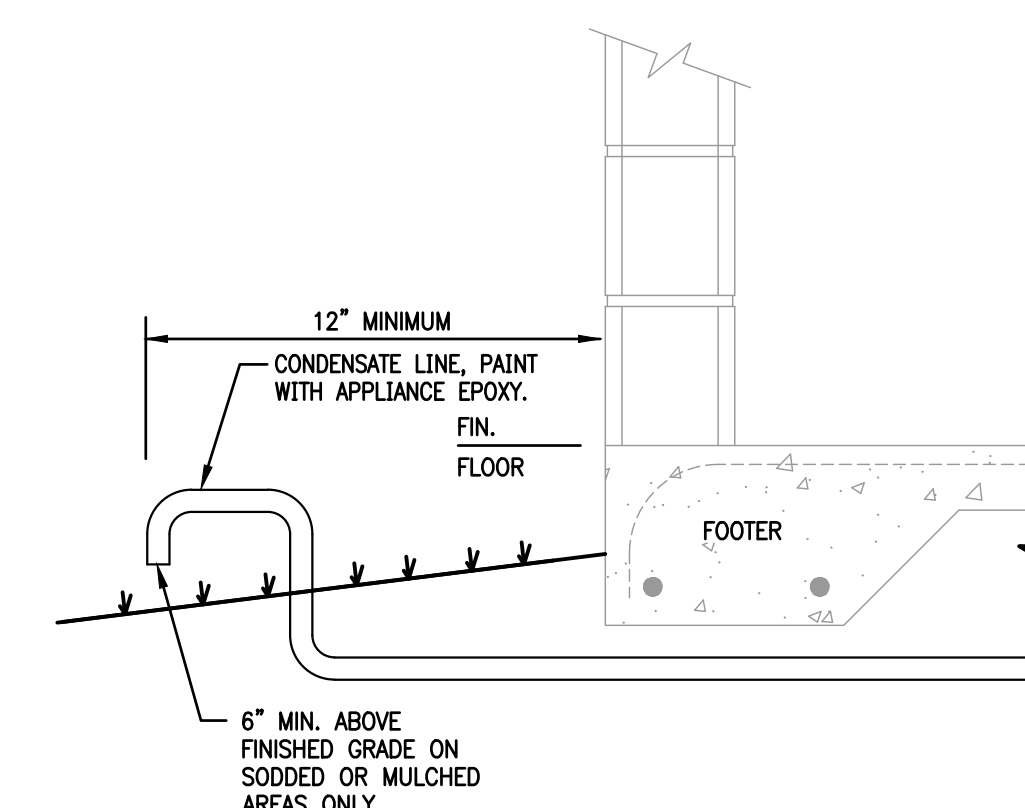
6 TWO-WAY CLEANOUT
NTS



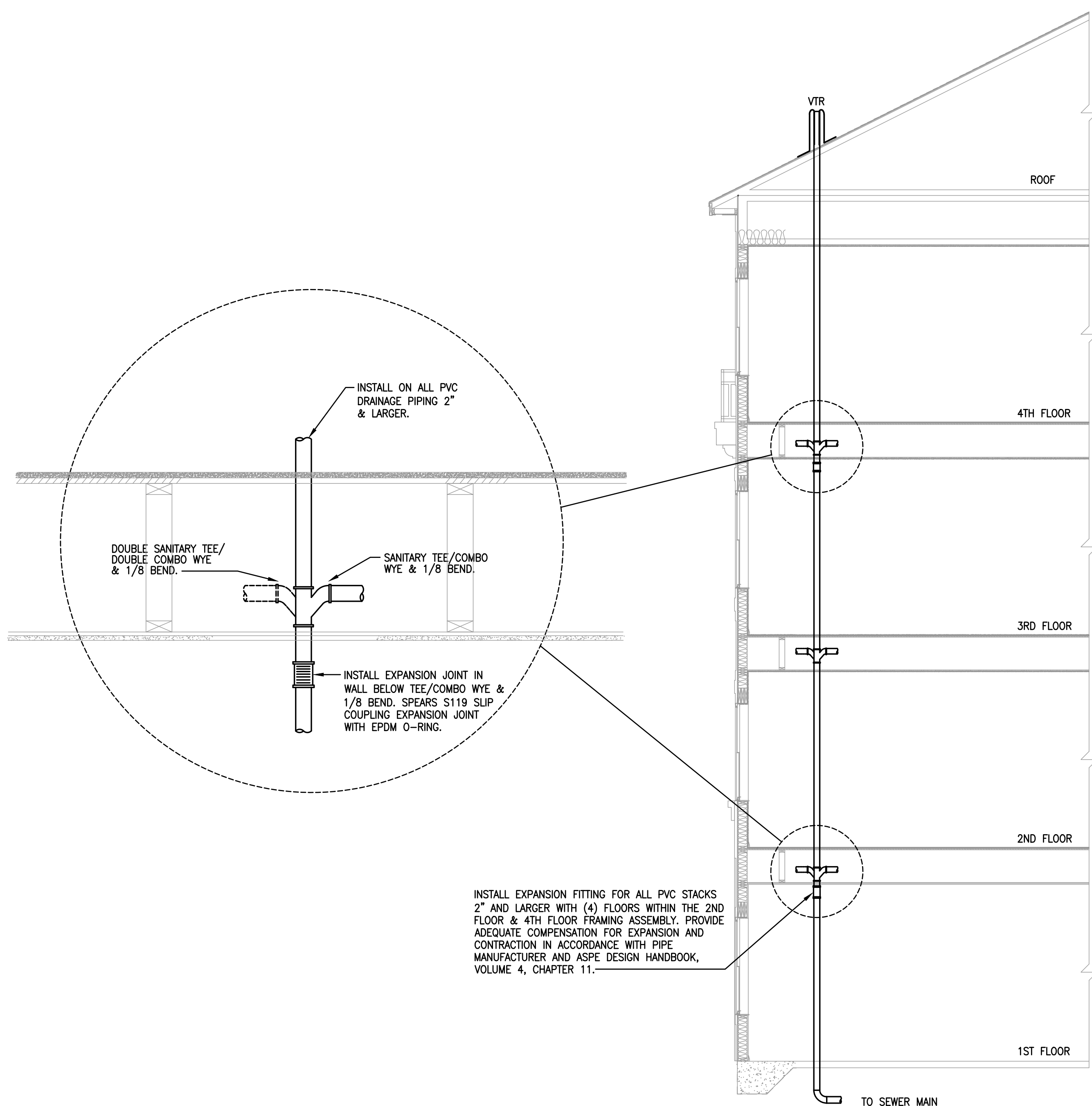
5 FLOOR CLEANOUT
NTS



4 WALL CLEANOUT
NTS

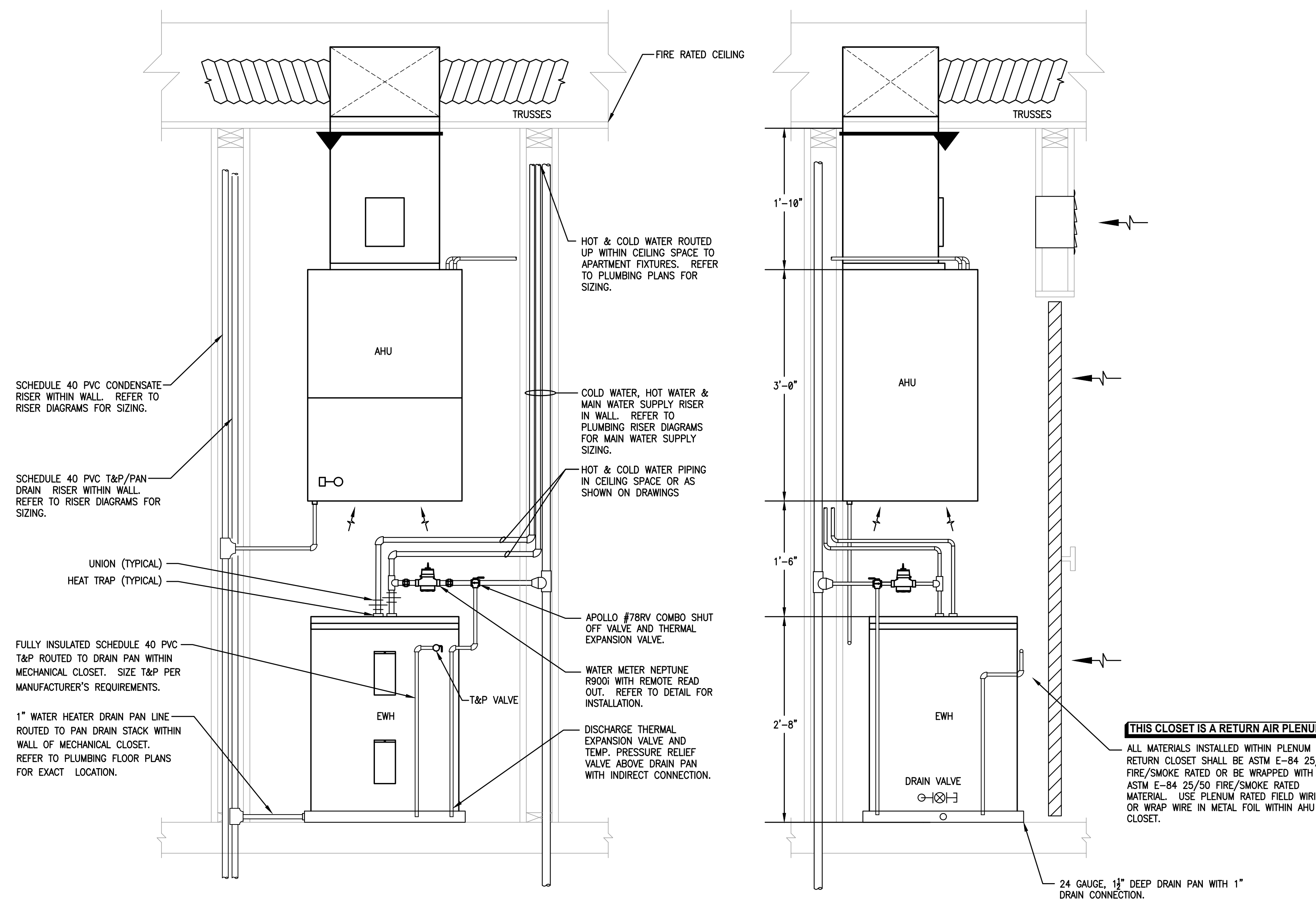


3 CONDENSATE DRAIN TERMINATION DETAIL
NTS



INSTALL EXPANSION FITTING FOR ALL PVC STACKS 2" AND LARGER WITH (4) FLOORS WITHIN THE 2ND FLOOR & 4TH FLOOR FRAMING ASSEMBLY. PROVIDE ADEQUATE COMPENSATION FOR EXPANSION AND CONTRACTION IN ACCORDANCE WITH PIPE MANUFACTURER AND ASPE DESIGN HANDBOOK, VOLUME 4, CHAPTER 11.

2 DRAIN PIPING EXPANSION DETAIL
NTS



FRONT VIEW

SIDE VIEW

1 LOWBOY WATER HEATER BELOW AHU DETAIL
NTS

ISSUE HISTORY

No.	Date	Description
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No.	Date	Description
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Checked: BLSA/B
Approved: BLSA/B
Date: 04/15/2022
Project #: 5722

THE MADISON
HUNTSVILLE, AL

APARTMENT DETAILS PLUMBING

P5.02



System No. W-L-2078
F Ratings — 1 and 2 Hr (See Item 1)
T Ratings — 0, 1 and 2 Hr (See Items 2 and 3)
L Rating At Ambient — 3 CFM/sq ft
L Rating At 400 F — Less Than 1 CFM/sq ft

SECTION A-A

1. Wall Assembly — The fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual L500, L400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the construction features noted below:
 A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced max 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC.
 B. Gypsum Board — Nom 5/8 in. (16 mm) thick gypsum board, as specified in the individual Wall and Partition Design. Max diam of opening is 11-1/2 in. (292 mm).
 The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
 2. Through-Penetrants — One nonmetallic pipe, conduit or tubing to be installed within the firestop system. The annular space between pipe and periphery of opening shall be min 0 in. (point contact) to max 1/2 in. (13 mm). Pipe or conduit to be rigidly supported on both sides of the wall assembly. The following types and sizes of nonmetallic pipes may be used:
 A. Polyvinyl Chloride (PVC) Pipe — Nom 10 in. (254 mm) diam (or smaller) Schedule 40 solid-core or cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
 B. Chlorinated Polyvinyl Chloride (CPVC) Pipe — Nom 10 in. (254 mm) diam (or smaller) SDR13.5 CPVC pipe for use in closed (process or supply) piping systems.
 C. Acrylonitrile Butadiene Styrene (ABS) Pipe — Nom 6 in. (152 mm) diam (or smaller) Schedule 40 solid-core or cellular core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
 D. Flame Retardant Polypropylene (FRPP) Pipe — Nom 6 in. (152 mm) diam (or smaller) Schedule 40 FRPP pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
 E. Polyvinylidene Fluoride (PVDF) Pipe — Nom 4 in. (102 mm) diam (or smaller) PVDF pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.
 F. Crosslinked Polyethylene (PEX) Tubing — Nom 4 in. (102 mm) diam (or smaller) SDR 9 Uponor AquaPEX or Winsto hePEX PEX tube for use in closed (process or supply) piping systems.
 When max 6 in. diam pipe is used, T Rating is equal to the hourly fire rating of the wall except that when penetrant type 2F is used, T Rating is 0 hr. When nom 8 in. or 10 in. (203 or 254 mm) diam pipe is used, T Rating is 0 hr.

Hilti Firestop Systems
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 Page: 1 of 2

System No. F-C-2160
F Rating — 1 and 2 Hr
T Rating — 1 and 2 Hr

SECTION A-A

1. Floor-Ceiling Assembly — The 1 and 2 hr fire-rated solid or trussed lumber joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in the individual L500 Series Floor-Ceiling Designs in the UL Fire Resistance Directory. The general construction features of the floor-ceiling assembly are summarized below:
 A. Flooring System — Lumber or plywood subfloor with finish floor of lumber, plywood or Floor Topping Mixture* as specified in the individual Floor-Ceiling Design. Diam of opening shall be 2 in. (51 mm) larger than the nom diam of through penetrant (Item 2).
 B. Wood Joists — Nom 10 in. (254 mm) deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or Structural Wood Members* with bridging as required and with ends firestopped.
 C. Furring Channels (Not Shown) — Resilient galv steel furring installed perpendicular to wood joists between first and second layers of wallboard (Item 10). Furring channels spaced max 24 in. (610 mm).
 D. Gypsum Board* — Nom 4 ft (1.2 m) wide by 5/8 in. (16 mm) thick as specified in the individual Floor-Ceiling Design. First layer of wallboard nailed to wood joists. Second layer of wallboard screw-attached to furring channels. Diam of opening shall be 2 in. (51 mm) larger than the nom diam of through penetrant (Item 2).
 1.1 Chase Wall — (Optional, not shown) — The through penetrants (Item No. 2) may be routed through a fire-rated or non-rated single, double or staggered wood stud/gypsum wall board chase wall. The chase wall shall be constructed to include the following construction features:
 A. Studs — Nom 2 by 6 in. (51 by 152 mm) or double nom 2 by 4 in. (51 by 102 mm) lumber studs.
 B. Sole Plate — Nom 2 by 6 in. (51 by 152 mm) or parallel nom 2 by 4 in. (51 by 102 mm) lumber plates, tightly butted. Diam of opening shall be 2 in. (51 mm) larger than the nom diam of through penetrant (Item 2).
 C. Top Plate — The double top plate shall consist of two nom 2 by 6 in. (51 by 152 mm) or two sets of parallel 2 by 4 in. (51 by 102 mm) lumber plates, tightly butted. Diam of opening shall be 2 in. (51 mm) larger than the nom diam of through penetrant (Item 2).
 D. Gypsum Board* — One or two layers of min 1/2 in. (14 mm) gypsum board.

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 Page: 1 of 2

System No. F-C-2029
F Rating - 2 Hr
T Rating - 2 Hr

SECTION A-A

System tested with a pressure differential of 2.5 Ps between the exposed and the unexposed surfaces with the higher pressure on the exposed side.
 1. Floor-Ceiling Assembly — The fire-rated wood joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in the individual L 500 Series Floor-Ceiling Design in the UL Fire Resistance Directory, as summarized below:
 A. Flooring System — Lumber or plywood subfloor with finish floor of lumber, plywood or Floor Topping Mixture* as specified in the individual Floor-Ceiling Design.
 B. Wood Joists — Nom 10 in. (254 mm) deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or Structural Wood Members* with bridging as required and with ends firestopped.
 C. Furring Channels — (Not Shown) — (As required) Resilient galvanized steel furring installed in accordance with the manner specified in the individual L500 Series Designs in the Fire Resistance Directory.
 D. Gypsum Board* — Thickness, type, number of layers and fasteners shall be as specified in the individual Floor-Ceiling Design.
 2. Through-Penetrants — One nonmetallic pipe, conduit or tubing to be installed within the firestop system. Diam of openings hole-sawed through flooring system and through two layers gypsum wallboard ceiling to be 0 to 1/2 in. (13 mm) larger than the outside diam of through-penetrant. Pipe or conduit to be rigidly supported on both sides of the floor-ceiling assembly. The following types and sizes of nonmetallic pipes may be used:
 A. Polyvinyl Chloride (PVC) Pipe — Nom 4 in. (102 mm) diam (or smaller) Schedule 40 solid-core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
 B. Chlorinated Polyvinyl Chloride (CPVC) Pipe — Nom 4 in. (102 mm) diam (or smaller) SDR13.5 CPVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
 3. Firestop System — The details of the firestop system shall be as follows:
 A. Steel Collar — Collar fabricated from coils of precut min 0.017 in. (0.43 mm) thick (No. 28 MSG) galv steel available from the sealant manufacturer. Collar shall be nom 1-3/4 in. (44 mm) deep with 1 in. (25 mm) wide by 2 in. (51 mm) long anchors tabs on 2 in. (51 mm) centers for securement to floor and ceiling surfaces. The anchor tabs shall be bent 90 degrees outward for securement to the floor and ceiling surfaces. The opposite side incorporates retainer tabs, 1/2 in. (13 mm) wide by 3/16 in. (5 mm) long, prebent toward the pipe surface. Collar shall be wrapped around pipe maintaining a 1 in. (25 mm) distance between pipe and collar, and overlapping min 1 in. (25 mm) at seam. Collar secure to subfloor with wood screws and washers at every other tab. Collar secured to gypsum board ceiling using 3/16 in. (5 mm) diam steel toggle bolts in conjunction with 1-1/4 in. (32 mm) diam steel fender washers at every other tab. After sealant is installed (Item 3B), the collars shall be compressed around the pipe using a 1/2 in. (13 mm) wide by 0.028 in. (0.7 mm) thick stainless steel band clamp fastened at the collar mid-height.
 B. Fill, Void or Cavity Material* — Sealant — Fill material to be installed to completely fill the collar and provide a min 1/4 in. (6 mm) thickness in the annular spaces at the floor and ceiling.
 HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant.
 * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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System No. W-L-2078

3. Firestop Devicer* — Firestop Collar — Firestop collar shall be installed in accordance with the accompanying installation instructions. Collar to be installed and latched around the pipe and secured to both sides of the wall using the anchor hooks provided with the collar. (Minimum two anchor hooks for 1-1/2 and 2 in. (38 and 51 mm) diam pipes, three anchor hooks for 3 and 4 in. (76 and 102 mm) diam pipes, four anchor hooks for 6 in. (152 mm) diam pipes, ten anchor hooks for 8 in. (203 mm) diam pipes and twelve anchor hooks for 10 in. (254 mm) diam pipes. The anchor hooks are to be secured to the surface of wall with 3/16 in. (4.8 mm) diam by 2-1/2 in. (64 mm) long steel toggle bolts along with washers. As an alternate for pipe sizes of nom 4 in. diam or less, min No. 10 by 1-1/2 in. (254 by 38 mm) long drywall or laminate screws with min 3/4 in. (19 mm) steel washers may be used. When the drywall or laminate screw is used, T Rating shall not exceed 1 hr.
 HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 643 501/57N, CP 643 633/7N, CP 643 930/3N, CP 643 1104/7N, CP 643 1600/7N, CP 644-2008* US and CP 644-2501/0* US Firestop Collars
 4. Fill, Void or Cavity Material* — Sealant — (Not Shown) — Min 1/2 in. (13 mm) thickness of sealant applied within the annular space for nom 6 in. and 10 in. (203 and 254 mm) diam pipes. Flush with each side of wall. Sealant in annular space is optional for max 6 in. (152 mm) diam pipes except that for penetrant type 2F, sealant is required. A min 1/4 in. (6 mm) thickness of sealant is required within the annular space, flush with each side of wall, to attain the L Ratings for max 6 in. (152 mm) diam pipes.
 HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE MAX Intumescent Sealant
 * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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 Page: 2 of 2

System No. F-C-2160

2. Through Penetrants — One nonmetallic pipe or conduit to be installed concentrically or eccentrically within the firestop system. Annular space between pipe or conduit and edge of opening to be min 1/2 in. (13 mm) and max 1-1/8 in. (29 mm). Pipe or conduit to be rigidly supported on both sides of floor-ceiling assembly. The following types and sizes of nonmetallic pipes or conduits may be used:
 A. Polyvinyl Chloride (PVC) Pipe — Nom 2 in. (51 mm) diam (or smaller) Schedule 40 solid or cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
 B. Chlorinated Polyvinyl Chloride (CPVC) Pipe — Nom 2 in. (51 mm) diam (or smaller) SDR13.5 CPVC pipe for use in closed (process or supply) piping systems.
 3. Fill, Void or Cavity Material* — Sealant — Fill material forced into annular space to fill space to max extent possible. Sealant shall be installed flush with top surface of floor or sole plate and bottom surface of ceiling or lower top plate.
 HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant
 * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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 Page: 2 of 2

System No. F-C-2263
F Rating — 1 Hr
T Rating — 1 Hr

SECTION A-A

1. Floor-Ceiling Assembly — The 1 hr fire-rated solid or trussed lumber joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in the individual L500 Series Floor-Ceiling Designs in the UL Fire Resistance Directory. The general construction features of the floor-ceiling assembly are summarized below:
 A. Flooring System — Lumber or plywood subfloor with finish floor of lumber, plywood or Floor Topping Mixture* as specified in the individual Floor-Ceiling Design. Max diam of opening shall be 5 in. (127 mm).
 B. Wood Joist — Nom 10 in. (254 mm) deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or Structural Wood Members* with bridging as required and with ends firestopped.
 C. Gypsum Board* — Nom 5/8 in. (16 mm) thick, 4 ft (1.2 m) wide as specified in the individual Floor-Ceiling Design.
 2. Closet Flange — Acrylonitrile butadiene styrene (ABS) or polyvinyl chloride (PVC) closet stub sized to accommodate drain pipe. Closet flange installed over drain piping within floor opening with flange secured to plywood floor with steel screws. Annular space between closet flange and periphery of opening shall be 1/4 in. (6 mm).
 3. Drain Piping — Nom 4 in. (102 mm) diam (or smaller) Schedule 40 acrylonitrile butadiene styrene (ABS) or polyvinyl chloride (PVC) drain pipe and 90 degree elbow for use in vented (drain, waste or vent) piping systems. Pipe installed concentrically within firestop system.
 4. Fill, Void or Cavity Material* — Sealant — Min 3/4 in. (19 mm) thickness of fill material applied within the annulus, flush with the bottom surface of floor.
 HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 606 Flexible Firestop Sealant, FS-ONE Sealant or FS-ONE MAX Intumescent Sealant
 5. Water Closet — (Not Shown) — Floor mounted vitreous china water closet.
 * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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 Page: 1 of 2

ISSUE HISTORY			
No.	Date	Submission	Description
1	04/15/22	Permit Submission	

REVISION HISTORY		
No.	Date	Description

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Drawn	MJRSMB
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Approved	BLSA,B
Date	04/15/2022
Project #	5722

THE MADISON
 HUNTSVILLE, AL

**APARTMENT DETAILS
 PLUMBING**

P5.03