



# DRAWING LIST

## GENERAL

- G1.0: Drawing List
- G1.1: Wall/Floor Types, General Notes, Symbols
- G1.2: Building E: Code Review
- G1.3: Building F: Code Review

## CIVIL

- V-100: Existing Conditions Plan
- C-100: Site Preparation Plan
- C-200: Layout & Materials Plan (Overall)
- C-201: Layout & Materials Plan (North)
- C-202: Layout & Materials Plan (South)
- C-300: Grading & Drainage Plan (Overall)
- C-301: Grading & Drainage Plan (North)
- C-302: Grading & Drainage Plan (South)
- C-400: Utilities Plan (Overall)
- C-401: Utilities Plan (North)
- C-402: Utilities Plan (South)
- C-500: Civil Details I
- C-501: Civil Details II
- C-502: Civil Details III
- C-503: Civil Details IV
- C-504: Civil Details V
- C-505: Civil Details VI
- C-506: Civil Details VII
- L-100: Landscape Plan (Overall)
- L-101: Landscape Plan (North)
- L-102: Landscape Plan (South)

## STRUCTURAL

- S1.0: Building E: Foundation/Second Floor Framing Plan
- S1.1: Building E: Third/Fourth Floor Framing Plans
- S1.2: Building E: Roof Framing Plan
- S1.3: Building E: Shear Wall Plans, Notes/Schedules
- S1.4: Building F: Foundation/Second Floor Framing Plan
- S1.5: Building F: Third Floor/Roof Framing Plans
- S1.6: Building F: Shear Wall Plans, Notes/Schedules
- S2.0: Details
- S2.1: Details

## ARCHITECTURAL

- A1.0: Building E: First and Second Floor Plans
- A1.1: Building E: Third and Fourth Floor Plans
- A1.2: Building E: Roof Plan
- A1.3: Building F: First and Second Floor Plans
- A1.4: Building F: Third Floor Plan and Roof Plan
- A1.5: Unit Types
- A1.6: Unit Types
- A1.7: Unit Types
- A1.8: Building E: Reflected Ceiling Plans
- A1.9: Building E: Reflected Ceiling Plans
- A1.10: Building F: Reflected Ceiling Plans
- A1.11: Building F: Reflected Ceiling Plans
- A1.12: Unit Types Reflected Ceiling Plans
- A1.13: Unit Types Reflected Ceiling Plans
- A1.14: Unit Types Reflected Ceiling Plans
- A2.0: Building E: Exterior Elevations
- A2.1: Building F: Exterior Elevations
- A3.0: Building E: Building Sections
- A3.1: Building E: Building Sections
- A3.2: Building F: Building Sections
- A3.3: Building F: Building Sections
- A4.0: Building E: Wall Sections
- A4.1: Building F: Wall Sections
- A5.0: Building E: Enlarged Stair Plans & Section
- A5.1: Building E: Enlarged Elevator Plans & Section
- A5.2: Building E: Enlarged Stair Plans & Section
- A5.3: Building F: Enlarged Stair Plans & Section
- A5.4: Building F: Enlarged Elevator Plans & Section
- A5.5: Stair Details
- A6.0: Exterior Details
- A6.1: Exterior Details
- A6.2: Exterior Details
- A6.3: Exterior Details
- A7.0: Interior Elevations
- A7.1: Interior Elevations

## ARCHITECTURAL (CONTINUED)

- A7.2: Interior Elevations
- A7.3: Interior Elevations
- A7.4: Interior Elevations
- A7.5: Interior Elevations
- A7.6: Interior Elevations
- A7.7: Interior Elevations
- A7.8: Interior Elevations
- A7.9: Interior Elevations
- A7.10: Interior Elevations
- A7.11: Interior Elevations
- A7.12: Casework Details
- A7.13: Interior Details
- A8.0: Building E: Door Schedule
- A8.1: Buildings E and F: Door Schedule
- A8.2: Building F: Door Schedule, Door Types, and Details

## INTERIOR DESIGN

- ID1.01: Buildings E & F: Lobby, Corridor, & Typical Unit Finish Plan
- ID2.02: Buildings E & F: Interior Elevations
- ID2.03: Buildings E & F: Interior Elevations
- ID2.04: Typical Residents Lobby Finish Plan
- ID2.05: Residents Building RCP'S

## FIRE PROTECTION

- F0.0: Fire Protection: Abbreviations, Symbols and Legends
- F1.0: Fire Protection: Building E First and Second Floor Plans
- F1.1: Fire Protection: Building E Third and Fourth Floor Plans
- F1.2: Fire Protection: Building F First and Second Floor Plans
- F1.3: Fire Protection: Building F Third Floor Plan and Roof Plan
- F5.0: Fire Protection: Details
- F5.1: Fire Protection: Details, Fire Safing
- F8.0: Fire Protection: Schedules

## PLUMBING

- P0.0: Plumbing: Abbreviations, Symbols and Legend
- P1.0: Plumbing: Building E First and Second Floor Plans Sanitary W&V
- P1.1: Plumbing: Building E Third Floor Plan Sanitary W&V
- P1.2: Plumbing: Building F First and Second Floor Plans Sanitary W&V
- P1.3: Plumbing: Building F Third and Fourth Floor Plans Sanitary W&V
- P1.4: Plumbing: Building E & F Roof Plans Sanitary W&V
- P2.0: Plumbing: Building E First and Second Floor Plans Domestic H&C&W
- P2.1: Plumbing: Building E Third Floor Plan Domestic H&C&W
- P2.2: Plumbing: Building F First and Second Floor Plans Domestic H&C&W
- P2.3: Plumbing: Building F Third and Fourth Floor Plans Domestic H&C&W
- P2.4: Plumbing: Building E & F Roof Plans Domestic H&C&W
- P3.0: Plumbing: Typical Unit Plans
- P3.1: Plumbing: Typical Unit Plans
- P3.2: Plumbing: Typical Unit Plans
- P3.3: Plumbing: Typical Unit Plans
- P3.4: Plumbing: Mechanical Room Part Plans
- P5.0: Plumbing: Typical Details
- P5.1: Plumbing: Domestic Water Riser Diagrams
- P5.2: Plumbing: Water Heater Piping Schematics
- P5.3: Plumbing: Fire Safing Details
- P5.4: Plumbing: Schedules

## MECHANICAL

- M0.0: Mechanical: Abbreviations, Symbols and Legends
- M1.0: Mechanical: Building E First & Second Floor Plans - Ductwork
- M1.1: Mechanical: Building E Third & Fourth Floor Plans - Ductwork
- M1.2: Mechanical: Building E Roof Plan - Ductwork
- M1.3: Mechanical: Building F First & Second Floor Plans - Ductwork
- M1.4: Mechanical: Building F Third Floor & Roof Plans - Ductwork
- M2.0: Mechanical: Building E First & Second Floor Plans - Piping
- M2.1: Mechanical: Building E Third & Fourth Floor Plans - Piping
- M2.2: Mechanical: Building E Roof Plan - Piping
- M2.3: Mechanical: Building F First & Second Floor Plans - Piping
- M2.4: Mechanical: Building F Third Floor & Roof Plans - Piping
- M3.0: Mechanical: Typical Unit Partial Plans
- M3.1: Mechanical: Typical Unit Partial Plans
- M3.2: Mechanical: Typical Unit Partial Plans
- M3.3: Mechanical: Typical Unit Partial Plans
- M3.4: Mechanical: Typical Unit Partial Plans
- M5.0: Mechanical: Details

## MECHANICAL (CONTINUED)

- M5.1: Mechanical: Details
- M7.0: Mechanical: Ventilation System Airflow Riser Diagram Building E & F
- M8.0: Mechanical: Schedules
- M8.1: Mechanical: Schedules
- M8.2: Mechanical: Schedules
- M8.3: Mechanical: Schedules

## ELECTRICAL

- E0.1: Electrical Symbol Legend and Notes
- E0.2: One-Line Diagram for the Site and Service Entrance Diagram for Building A
- E0.3: Service Entrances for Building B and the Community Building
- E0.4: Fire Alarm System Schematic and Details
- E0.5: Electrical Connection Schedules for Mechanical Equipment
- E0.6: Panel Schedules Sheet 1
- E0.7: Panel Schedules Sheet 2
- E0.8: Lighting Fixture Schedule
- E1.1: Site Plan: Proposed
- E2.1: Building E: First & Second Floor Lighting Plans: Proposed
- E2.2: Building E: Third Floor & Fourth Floor Lighting Plans: Proposed
- E2.3: Building E: First & Second Floor Power & Fire Alarm Plans: Proposed
- E2.4: Building E: Third Floor & Fourth Floor Power & Fire Alarm Plans: Proposed
- E2.5: Building E: Roof Power & Fire Alarm Plans: Proposed
- E3.1: Building F: First & Second Floor Lighting Plans: Proposed
- E3.2: Building F: Third Floor Lighting Plan: Proposed
- E3.3: Building F: First & Second Floor Power & Fire Alarm Plans: Proposed
- E3.4: Building F: Third Floor & Roof Power & Fire Alarm Plans: Proposed
- E4.1: Unit Types 1, 2.\*, & 3.\*: Proposed
- E4.2: Unit Types 4.\* and Utility Area Detail: Proposed
- E4.3: Unit Types 5.\*: Proposed

## SECURITY

- SEC.1: Security Legends and Notes
- SEC.2: Video Management Software Specifications
- SEC.3: Access Control Management Software Specifications
- SEC.4: Site Security Plan
- SEC.5: Building E: First Floor Security Plan
- SEC.6: Building E: Second Floor Security Plan
- SEC.7: Building E: Third Floor Security Plan
- SEC.8: Building E: Fourth Floor Security Plan
- SEC.9: Building E: Roof Security Plan
- SEC.10: Building F: First Floor Security Plan
- SEC.10: Building F: Second Floor Security Plan
- SEC.11: Building F: Third Floor Security Plan
- SEC.12: Building F: Roof Security Plan
- SEC.13: Community Building: First Floor and Roof Security Plan
- SEC.14: Video and Access Riser Diagram
- SEC.15: Video Surveillance Mounting Details
- SEC.16: Access Control Mounting Details
- SEC.17: Head End #1 Tripplite SRW12US33 Wall Rack
- SEC.18: Head End #2 Tripplite SRW6U Wall Rack
- SEC.19: Head End #1 Access Control Enclosure
- SEC.20: Equipment Schedules 1 of 3
- SEC.21: Equipment Schedules 2 of 3
- SEC.22: Equipment Schedules 3 of 3

## COMMUNITY BUILDING

- G9.0: Community Building: Code Review
- S9.0: Community Building: Framing/Shear Wall/ Foundation Plan
- A9.0: Community Building: Floor Plan
- A9.1: Community Building: Roof Plan
- A9.2: Community Building: Reflected Ceiling Plan
- A9.3: Community Building: Exterior Elevations
- A9.4: Community Building: Exterior Elevations
- A9.5: Community Building: Sections
- A9.6: Community Building: Interior Elevations
- A9.7: Community Building: Door & Finish Schedules
- A9.8: Community Building: Details
- ID9.01: Community Building: Reflected Ceiling Plan
- ID9.02: Community Building: Interior Elevations
- ID9.03: Community Building: Interior Elevations
- ID9.04: Community Building: Furniture Plan
- P9.0: Plumbing: Community Building Floor Plans
- M9.0: Mechanical: Community Building Floor Plans
- M9.1: Mechanical: Community Building Schedules
- E9.1: Community Building: Power, Fire Alarm, & Lighting Plans: Proposed



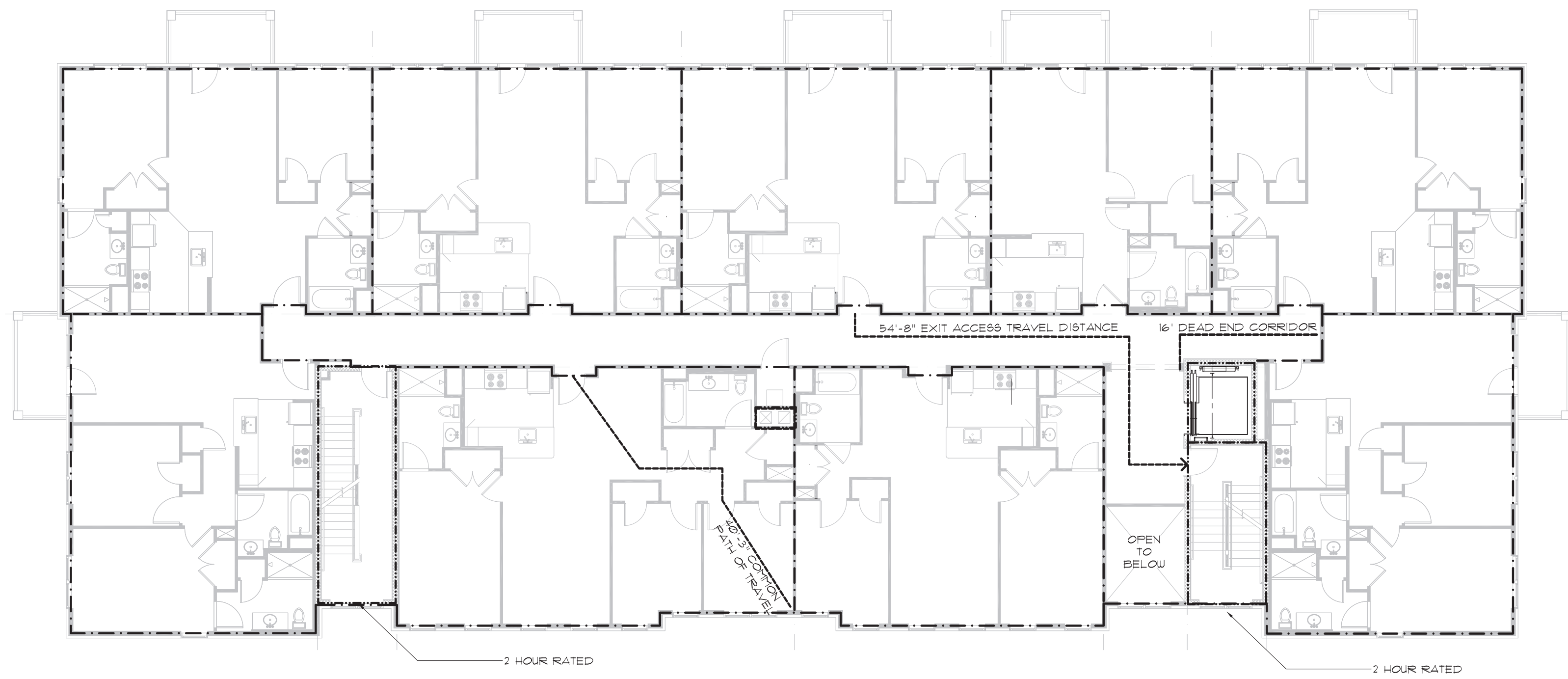
SHEET CONTENTS:  
Drawing List

PROJECT # 1420

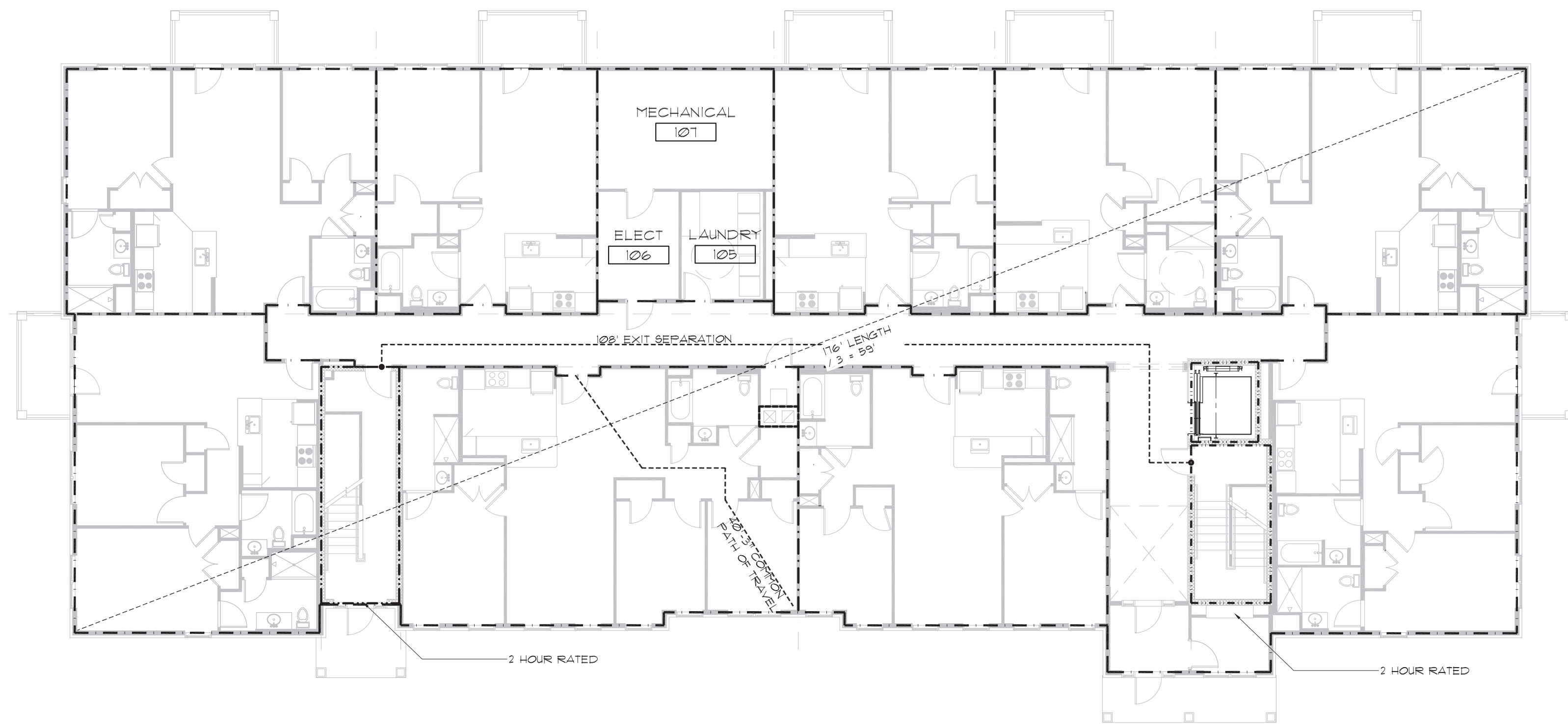
DATE: 9/22/2020  
REVISED DATE:  
REVISED: 02/16/2021

**G1.0**

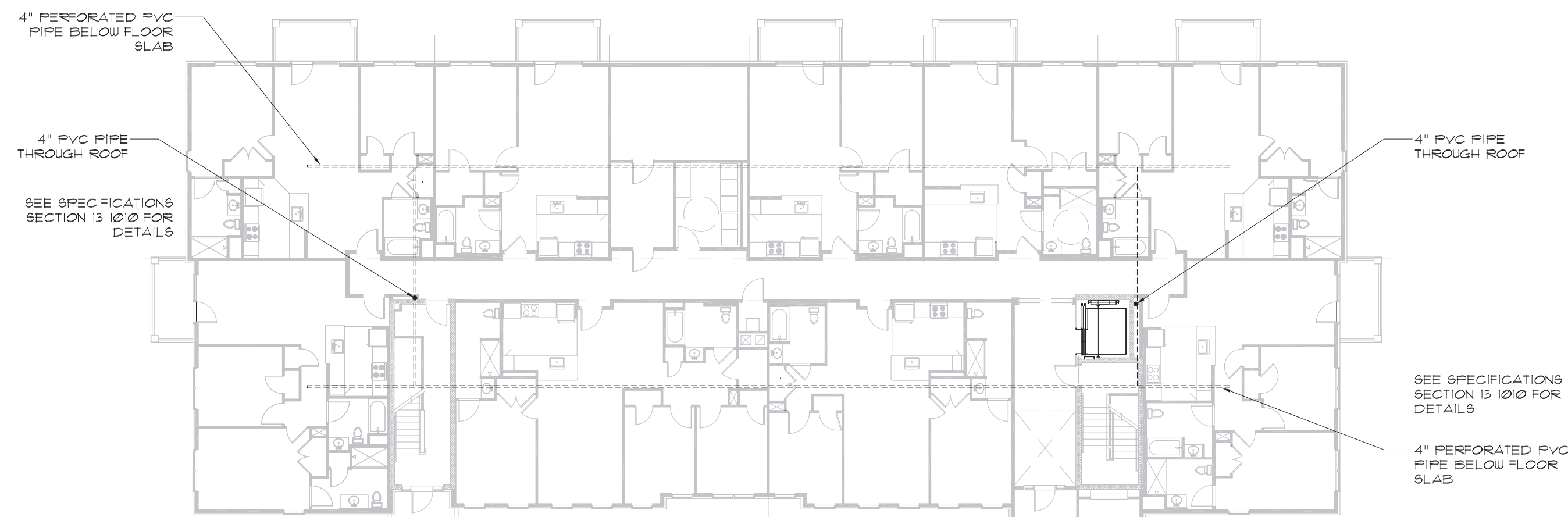




CODE PLAN: SECOND / THIRD / FOURTH FLOOR PLANS, TYPICAL BUILDING E 1 3/32" = 1'-0"



CODE PLAN: FIRST FLOOR PLAN BUILDING E 2 3/32" = 1'-0"



RADON SYSTEM PLAN, TYPICAL BUILDING E 3 NTS.

**GENERAL NOTES:**

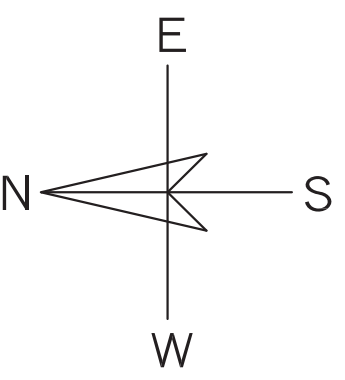
1. ALL DIMENSIONS TO THE FACE OF FRAMING/STUDS UNLESS OTHERWISE NOTED.
2. REFERENCE SCHEDULE SHEETS FOR DOOR AND FINISH SCHEDULES.
3. PROVIDE BLOCKING IN WALLS FOR ALL FIXTURES AND ACCESSORIES.
4. FLASH PATCH FLOOR AS NEEDED TO INSTALL FLOOR FINISHES.
5. DOORS SHALL BE MOUNTED 5" AWAY FROM ADJACENT WALL, UNLESS NOTED OTHERWISE OR SHOWN IN DIFFERENT LOCATION.

**BUILDING E CODE REVIEW:**

Project Name:	Woodland Cove Phase 1		
Address:	3102 Cranberry Highway, Wareham, MA		
Code Review:	Massachusetts State Building Code 9th edition		
<b>BUILDING E</b>			
Building Use:	First Floor:	R-2, Apartments	
	Second Floor:	R-2, Apartments	
	Third Floor:	R-2, Apartments	
	Fourth Floor:	R-2, Apartments	
Number of Apartments:	36 Total (9 per Floor)		
Area of Building:	First Floor:	10668 s.f.	
	Second Floor:	10522 s.f.	
	Third Floor:	10522 s.f.	
	Fourth Floor:	10365 s.f.	
	Total:	42077 s.f.	
Number of Stories:	4		
Height:	44 feet		
Construction Type:	5A Sprinklered (NFPA 13) Bearing walls, Floors, and roof to be 1 hr rated		
Allowable Area:	Aa=[21,000+(7,000x0.75)x1	EQ. 5-2 (area increase)	
	Aa= 26,250 sf per floor		
	Aa = 78,750 sf for entire building		
Allowable Height:	60 Feet		
Incidental Use spaces	Laundry Rooms	1 Hour or Sprinkler System	Walls must be constructed as smoke barriers.
	Boiler & Fuel fired heater rooms	One Hour and sprinklers	No equip over 440,000 btu/hr
Exterior Wall Fire Resistance Rating	Type 5A construction requires 1 hr exterior walls		
Separation required between dwelling units	1 hr fire partition with sprinklers		
Separation between dwelling units and corridors	1 hr fire partition with sprinklers		
Separation between floors	1 hr for type 5A construction		
Shaft Enclosure	2 hour where connecting 4 stories or more		
Draft stopping at concealed floor / ceiling spaces	Not required for buildings with NFPA 13 Sprinkler		
Draft stopping at concealed spaces in roof construction	Not required for buildings with NFPA 13 Sprinkler		
Interior Wall Finishes	Exit Enclosures	Class C	
	Lobbies & Corridors	Class C	
	Other spaces	Class C	
Interior Floor Finishes	Exit Enclosures	Class II	
	Lobbies & Corridors	Class II	
<b>Egress</b>	<b>Floor</b>	<b>Area</b>	<b>Occupancy 1 per 200 s.f.</b>
Occupant Load	First Floor	10668	53
	Second Floor	10522	53
	Third Floor	10522	53
	Fourth Floor	10365	52
<b>Total</b>			<b>211</b>
<b>Typical Apartment occupancy</b>		1218	7
Common Path of Travel (within apartments)	20 occupants and 125 feet allowable	40 feet at units 4, 13, 22 & 31	
Exit Access Travel Distance (outside of apartments)	250 feet allowable	55 feet maximum at units 14, 23 & 32	
Dead End Corridor	50 feet allowable	16 feet actual	
Two exit stairs provided			
Stair Enclosure	2 hour for stair connecting 4 stories		
Stair separation = 1/3 diagonal of bldg	Diagonal of building = 176 feet / 3 = 59 feet	Stairs separated by	108 feet
Sprinkler System	NFPA 13	Municipally Connected fire alarm system	
Fire Alarm	NFPA 72	Municipally Connected fire alarm system	
Insulation Requirements	Roofs	R-25 Required	R-60 Provided
	Walls Above Grade wood framed	R-20 + R-3.8 ci	R-20+ R-18 ci provided - Total= R-38
	Slab on Grade (unheated)	R-10 to 24" below grade	R-20 under slab provided
Accessibility	Total number of accessible units = 2		
	Total number of group 2A units = 2		
	Total number of group 1 units = 32		
	Total number of Hearing & Visual Impaired units = 1		

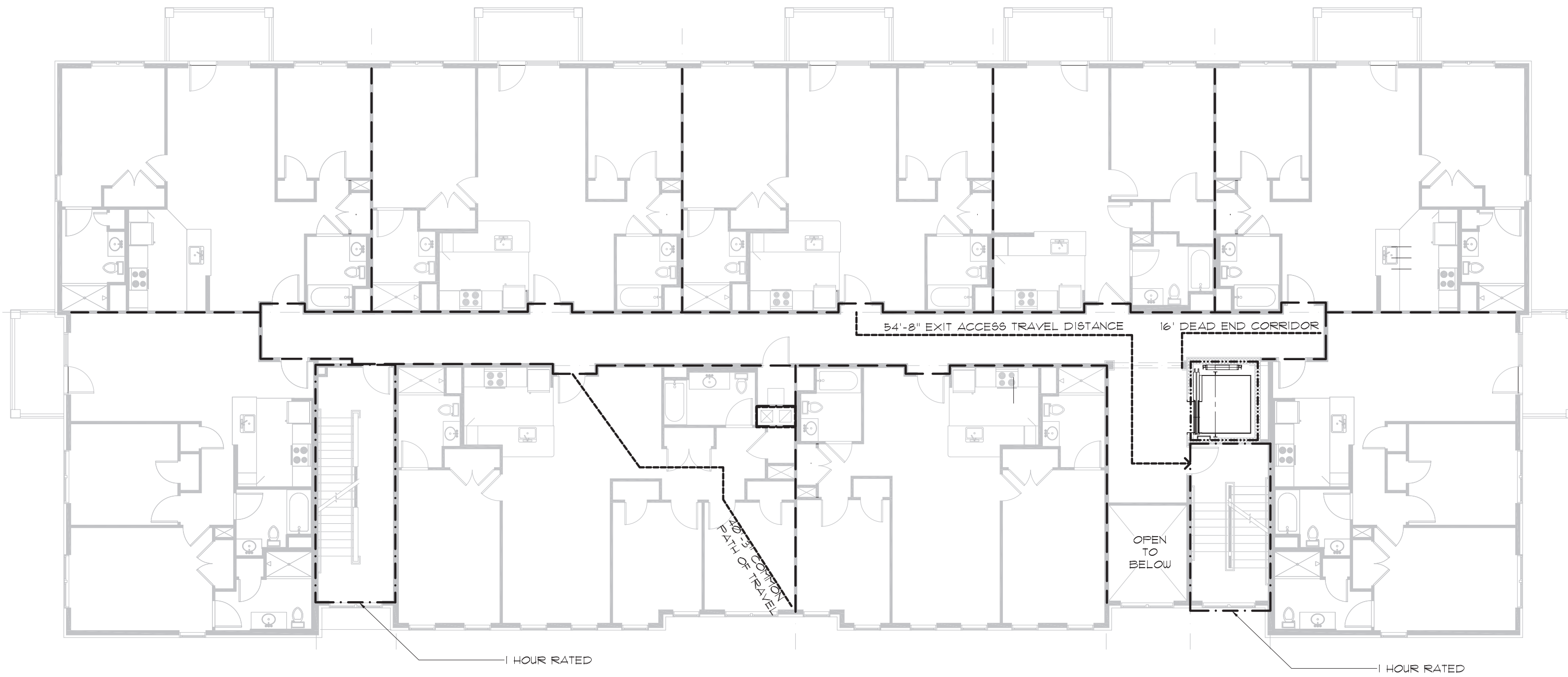
**LEGEND:**

- 2 HR FIRE RATING SEPARATION
- - - - - 1 HR FIRE RATING SEPARATION
- ←----- EXIT TRAVEL DISTANCE

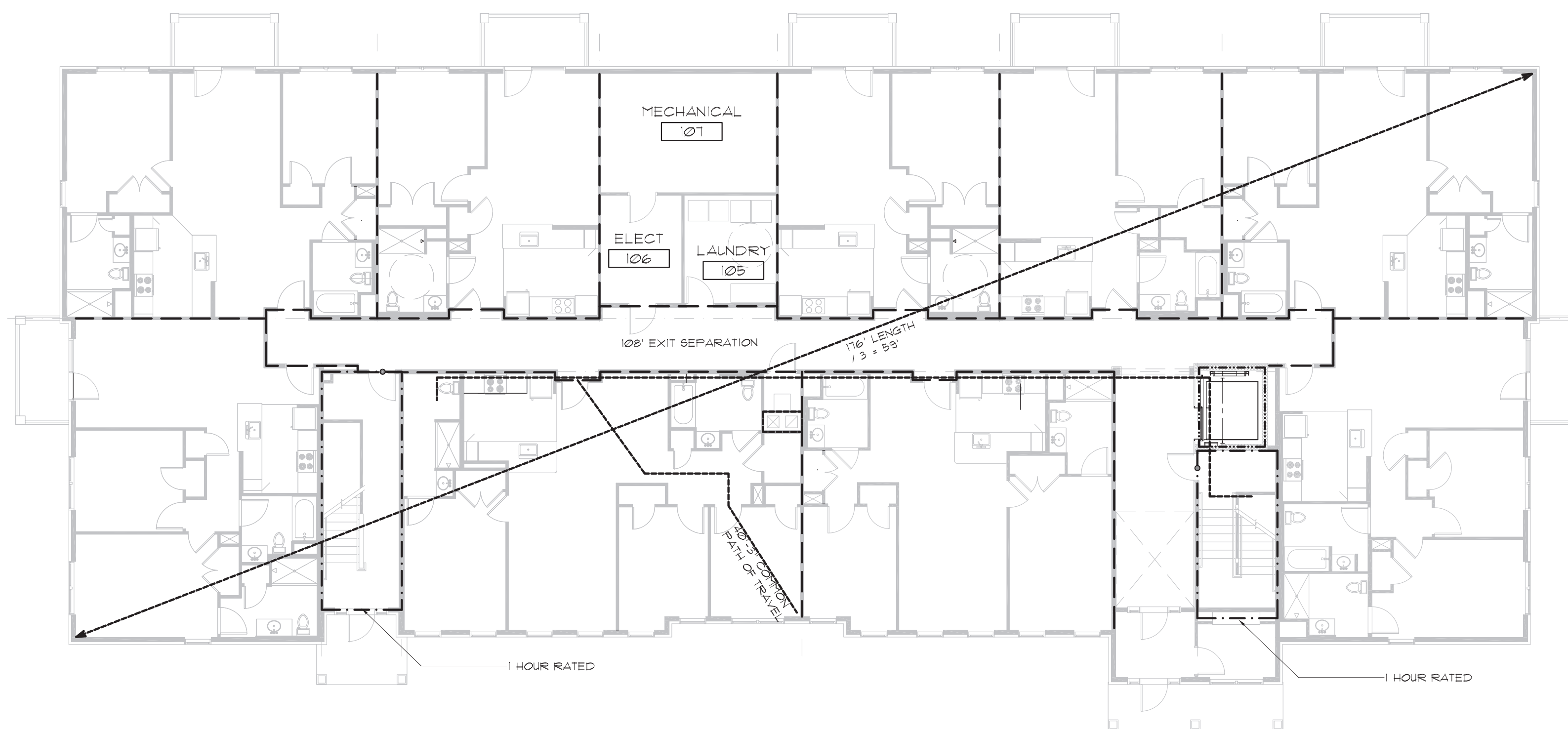


CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

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CODE PLAN: SECOND / THIRD FLOOR PLANS, TYPICAL BUILDING F 1 3/32" = 1'-0"



CODE PLAN: FIRST FLOOR PLAN BUILDING F 2 3/32" = 1'-0"



RADON SYSTEM PLAN, TYPICAL BUILDING F 3 N.T.S.

**GENERAL NOTES:**

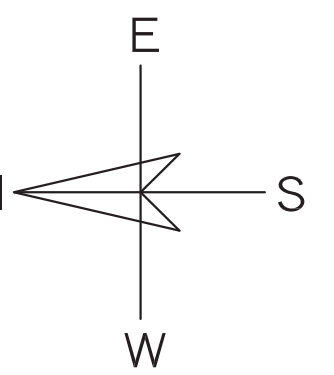
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4. FLASH PATCH FLOOR AS NEEDED TO INSTALL FLOOR FINISHES.
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**BUILDING F CODE REVIEW:**

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<b>BUILDING F</b>			
Building Use:	First Floor:	R-2, Apartments	
	Second Floor:	R-2, Apartments	
	Third Floor:	R-2, Apartments	
Number of Apartments:	27 Total (9 per Floor)		
Area of Building:	First Floor:	10668 s.f.	
	Second Floor:	10522 s.f.	
	Third Floor:	10365 s.f.	
	Total:	31555 s.f.	
Number of Stories:	3		
Height:	34 feet		
Construction Type:	5B Sprinklered (NFPA 13) No rating required for structural elements		
Allowable Area:	Aa=[21,000+(7,000x0.75)]x1		EQ. 5-2 (Area Increase)
	Aa= 26,250 sf per floor		
	Aa = 78,750 sf for entire building		
Allowable Height:	60 Feet		
Incidental Use spaces:	Laundry Rooms	1 Hour or Sprinkler System	Walls must be constructed as smoke barriers.
	Boiler & Fuel fired heater rooms	One Hour and sprinklers	No equip over 440,000 btuh/hr
Exterior Wall Fire Resistance Rating:	Type 5b construction >10 ft = 0 hour rating		
Separation required between dwelling units:	1/2 hr fire partition with sprinklers		
Separation between dwelling units and corridors:	1/2 hr fire partition with sprinklers		
Separation between floors:	1/2 hr horizontal assembly with sprinklers		
Shaft Enclosure:	1 hour where connecting less than 4 stories		
Draft stopping at concealed floor / ceiling spaces:	Not required for buildings with NFPA 13 Sprinkler		
Draft stopping at concealed spaces in roof construction:	Not required for buildings with NFPA 13 Sprinkler		
Interior Wall Finishes:	Exit Enclosures	Class C	
	Lobbies & Corridors	Class C	
	Other spaces	Class C	
Interior Floor Finishes:	Exit Enclosures	Class II	
	Lobbies & Corridors	Class II	
<b>Egress</b>	<b>Floor</b>	<b>Area</b>	<b>Occupancy 1 per 200 s.f.</b>
Occupant Load	First Floor	10668	53
	Second Floor	10522	53
	Third Floor	10365	52
<b>Total</b>			<b>158</b>
<b>Typical Apartment occupancy</b>		1218	7
Common Path of Travel (within apartments):	20 occupants and 125 feet allowable		40 feet at units 4, 13, & 22
Exit Access Travel Distance (outside of apartments):	250 feet allowable		55 feet maximum at units 14 & 23
Dead End Corridor:	50 feet allowable		16 feet actual
Two exit stairs provided:			
Stair Enclosure:	1 hour for stair connecting 3 stories		
Stair separation = 1/3 diagonal of bldg:	Diagonal of building = 176 feet / 3 = 59 feet	Stairs separated by	108 feet
Sprinkler System:	NFPA 13		
Fire Alarm:	NFPA 72 Municipally Connected fire alarm system		
Insulation Requirements:	Roofs	R-25 Required	R-60 Provided
	Walls Above Grade wood framed	R-20 = R-3.8 ci	R-20+ R-18 ci provided - Total= R-38
	Slab on Grade (unheated)	R-10 to 24" below grade	R-20 under slab provided
Accessibility:	Total number of accessible units = 2		
	Total number of group 2A units = 2		
	Total number of group 1 units = 23		
	Total number of Hearing & Visual Impaired units = 1		

**LEGEND:**

- 2 HR FIRE RATING SEPARATION
- - - - - 1 HR FIRE RATING SEPARATION
- - - - - 1/2 HR FIRE RATING SEPARATION
- ←----- EXIT TRAVEL DISTANCE



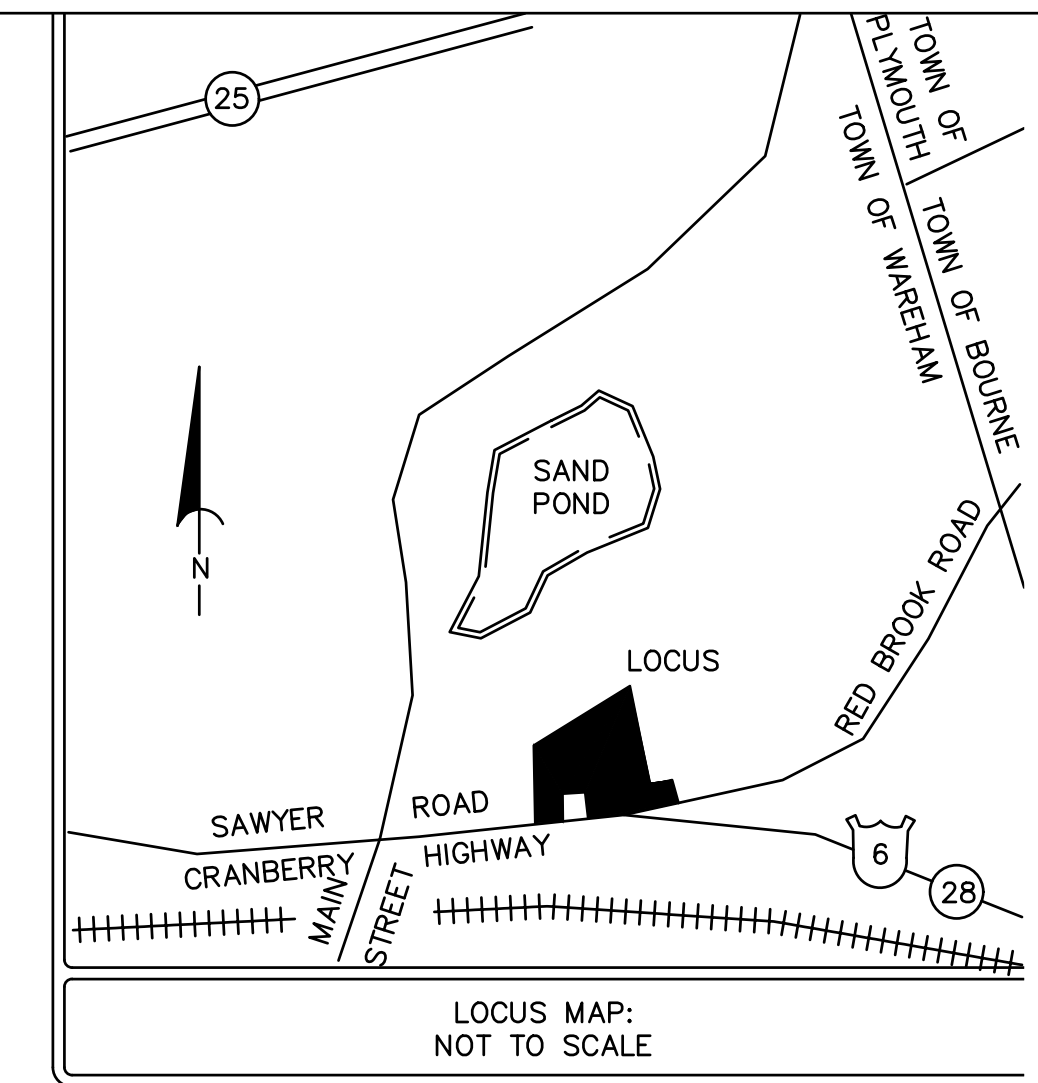
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**LOCUS INFORMATION**

ASSESSORS MAP: 131  
 PARCEL'S: Q1  
 CURRENT OWNER: BOSTON LAND GROUP LLC  
 TITLE REFERENCE: DEED BOOK 20829, PAGE 286  
 PLAN REFERENCE: BOOK 44, PAGE 1076  
 ZONING DISTRICT: STRIP COMMERCIAL R-130  
 SETBACKS: FRONT 20' SIDE 10' REAR 10'  
 LOT AREA WITHOUT 30' R-130 STRIP: 260,568± S.F. (5.98± AC.)  
 LOT AREA WITH 30' R-130 STRIP: 277,420± S.F. (6.36± AC.)  
 MAX. BUILDING COVERAGE: 40%  
 MAX. LOT COVERAGE (IMPERVIOUS): 65%  
 NITROGEN SENSITIVE ZONE (ZONE II): YES  
 FEMA FLOOD ZONE DISTRICT: "X"

**NOTE:**  
 THIS PLAN WAS PREPARED FROM AN ACTUAL ON-THE-GROUND SURVEY PERFORMED BY BSC GROUP, INC. DURING 2007 AND BETWEEN MARCH 28 AND MARCH 29, 2017.



**PLAN REFERENCES**

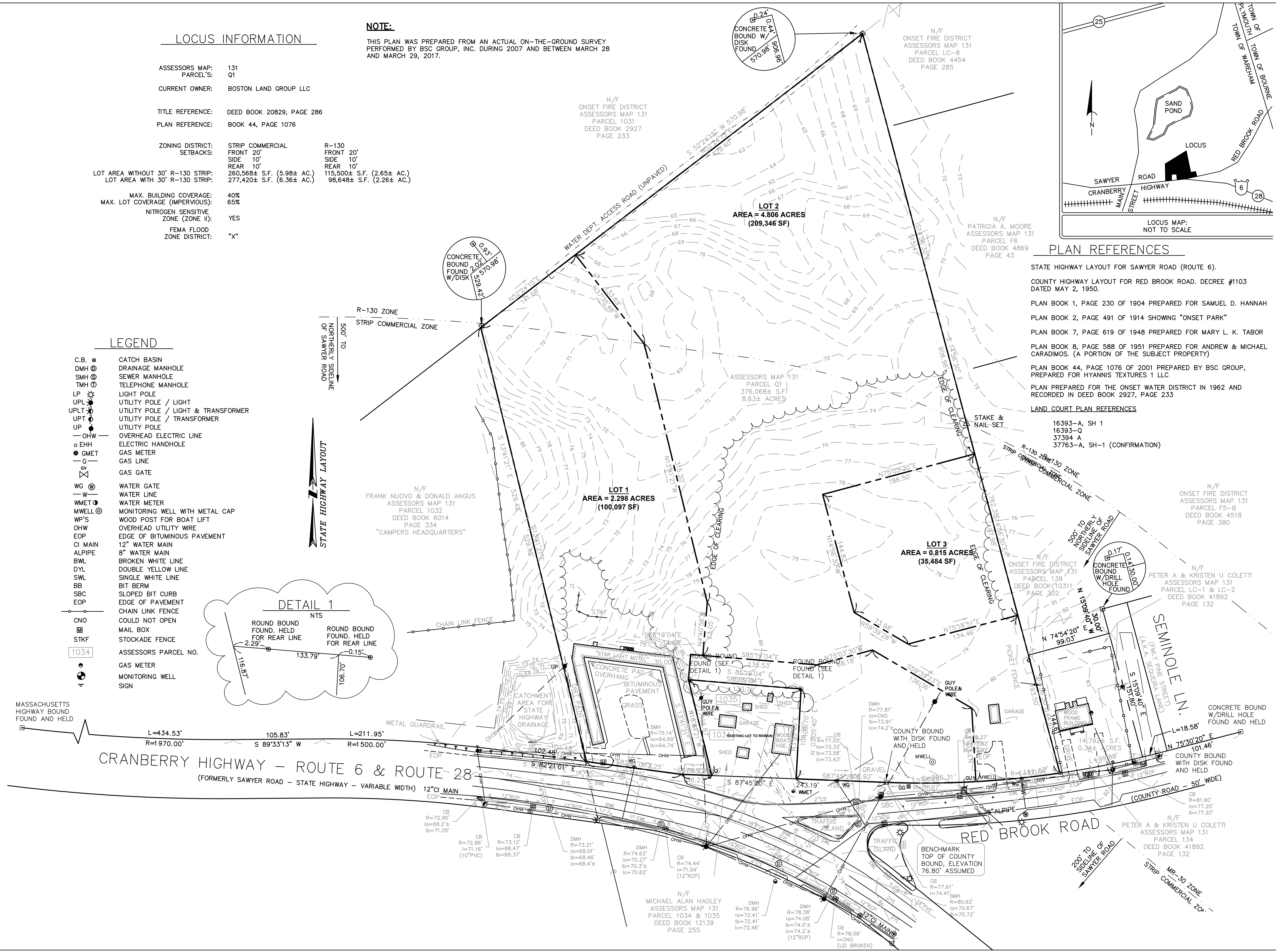
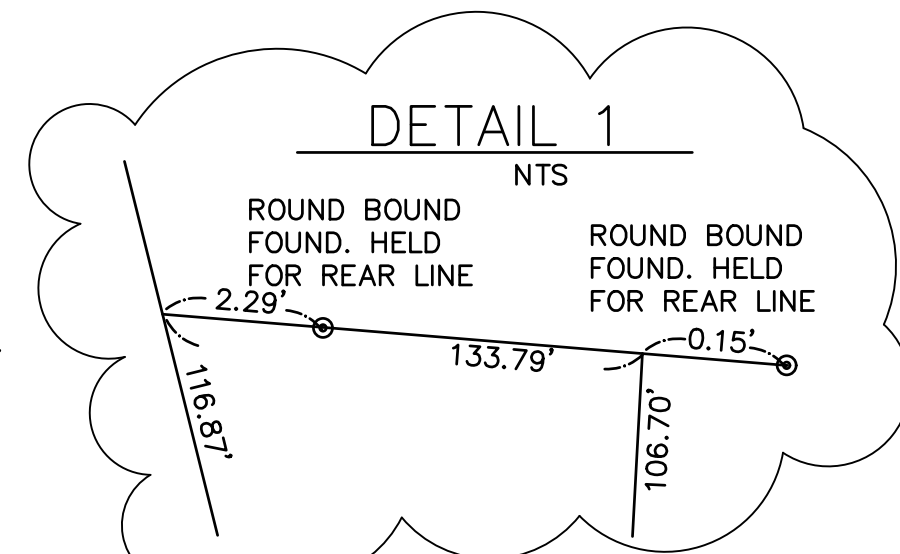
STATE HIGHWAY LAYOUT FOR SAWYER ROAD (ROUTE 6).  
 COUNTY HIGHWAY LAYOUT FOR RED BROOK ROAD. DECREE #1103 DATED MAY 2, 1950.  
 PLAN BOOK 1, PAGE 230 OF 1904 PREPARED FOR SAMUEL D. HANNAH  
 PLAN BOOK 2, PAGE 491 OF 1914 SHOWING "ONSET PARK"  
 PLAN BOOK 7, PAGE 619 OF 1948 PREPARED FOR MARY L. K. TABOR  
 PLAN BOOK 8, PAGE 588 OF 1951 PREPARED FOR ANDREW & MICHAEL CARADIMOS. (A PORTION OF THE SUBJECT PROPERTY)  
 PLAN BOOK 44, PAGE 1076 OF 2001 PREPARED BY BSC GROUP, PREPARED FOR HYANNIS TEXTURES 1 LLC  
 PLAN PREPARED FOR THE ONSET WATER DISTRICT IN 1962 AND RECORDED IN DEED BOOK 2927, PAGE 233

**LAND COURT PLAN REFERENCES**

16393-A, SH 1  
 16393-Q  
 37594 A  
 37763-A, SH-1 (CONFIRMATION)

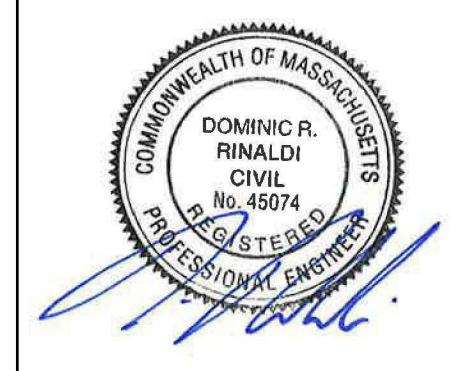
**LEGEND**

- C.B. ■ CATCH BASIN
- DMH ⊙ DRAINAGE MANHOLE
- SMH ⊙ SEWER MANHOLE
- TMH ⊙ TELEPHONE MANHOLE
- LP ✨ LIGHT POLE
- UPL ✨ UTILITY POLE / LIGHT
- UPLT ✨ UTILITY POLE / LIGHT & TRANSFORMER
- UPT ✨ UTILITY POLE / TRANSFORMER
- UP ✨ UTILITY POLE
- OHW — OVERHEAD ELECTRIC LINE
- EHH ○ ELECTRIC HANDHOLE
- GMET ○ GAS METER
- G — GAS LINE
- ⊗ GAS GATE
- WG ⊙ WATER GATE
- W — WATER LINE
- WMET ⊙ WATER METER
- MWELL ⊙ MONITORING WELL WITH METAL CAP
- WP'S ○ WOOD POST FOR BOAT LIFT
- OHW — OVERHEAD UTILITY WIRE
- EOP — EDGE OF BITUMINOUS PAVEMENT
- CI MAIN — 12" WATER MAIN
- ALPIPE — 8" WATER MAIN
- BWL — BROKEN WHITE LINE
- DYL — DOUBLE YELLOW LINE
- SWL — SINGLE WHITE LINE
- BB — BIT BERM
- SBC — SLOPED BIT CURB
- EOP — EDGE OF PAVEMENT
- — CHAIN LINK FENCE
- — COULD NOT OPEN
- — MAIL BOX
- — STOCKADE FENCE
- 1034 — ASSESSORS PARCEL NO.
- — GAS METER
- — MONITORING WELL
- — SIGN



**BSC GROUP**  
 803 Summer Street  
 Boston, Massachusetts 02127  
 617.896.4300

Proposed Design for  
**Woodland Cove Phase I**  
 Buildings E, F, & COMMUNITY BUILDING  
 3102 Cranberry Highway  
 Wareham, MA 02532



SHEET CONTENTS:

EXISTING CONDITIONS PLAN

PROJECT # 8-3669.00

DATE: 9/22/2020  
 REVISED DATE:  
 REVISED: 02/16/2021

SCALE: 1" = 50'  
 0 25 50 100

**V-100**

CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

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JM AN ACTUAL ON-THE-GROUND SURVEY  
 IC. DURING 2007 AND BETWEEN MARCH 28

**GENERAL NOTES:**

1. THE TOPOGRAPHY AND DETAIL SHOWN HEREON ARE FROM ACTUAL ON-THE-GROUND SURVEY PERFORMED BY BSC GROUP, INC. DURING 2007 AND BETWEEN MARCH 25 AND 29, 2017.
2. ALL UNDERGROUND UTILITIES SHOWN WERE COMPILED ACCORDING TO AVAILABLE RECORD PLANS AND ARE APPROXIMATE ONLY. SEE CHAPTER 370 ACTS OF 1963, MASSACHUSETTS GENERAL LAWS. THE UNDERGROUND UTILITIES SHOWN HEREON WERE NOT INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. WE ASSUME NO RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES OMITTED OR INACCURATELY SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY LOCATING AND COORDINATING ANY ON-SITE ACTIVITY WITH DIG-SAFE AND THE APPROPRIATE UTILITY COMPANY AND MAINTAINING EXISTING UTILITY SYSTEM SERVICE. DIG-SAFE SHALL BE NOTIFIED PER THE COMMONWEALTH OF MASSACHUSETTS STATUTE CHAPTER 82, SECTION 40, AT 1-888-344-7233. NO GUARANTEE IS IMPLIED OR INTENDED AS TO THE ACCURACY, LOCATION OR THAT ALL UTILITIES AND/OR SUBSURFACE STRUCTURES ARE SHOWN. THE CONTRACTOR SHALL VERIFY SIZE, LOCATION, AND INVERTS OF UTILITIES AND STRUCTURES AS REQUIRED PRIOR TO THE START OF CONSTRUCTION.
3. CONTRACTOR SHALL NOTIFY 'DIG SAFE' (888-DIG-SAFE) AND VERIFY UTILITY MARK-OUT WITH THE OWNER PRIOR TO THE INITIATION OF ANY SITE DISTURBANCE.
4. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF MASSACHUSETTS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, JULY 2020 OR LATEST EDITION, THE REQUIREMENTS OF THE TOWN OF WAREHAM, THE REQUIREMENTS OF THE ONSET FIRE DISTRICT WATER DEPARTMENT, ANY PRIVATE UTILITY COMPANY HAVING JURISDICTION, AND THESE CONTRACT DRAWINGS AND SPECIFICATIONS. NOTIFY ENGINEER IN WRITING OF ANY CONFLICTING REQUIREMENTS IMMEDIATELY UPON DISCOVERY OF CONFLICTS AND DO NOT CONTINUE ON AFFECTED WORK UNTIL RESOLUTION OF CONFLICT IS DETERMINED.
5. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR VERIFICATION OF THE LOCATION AND NATURE OF ALL SUBSURFACE UTILITIES AT THE PROJECT WHICH MAY BE AFFECTED BY THE WORK. COORDINATE WITH RESPECTIVE UTILITY OWNERS AND PERFORM VERIFICATION OF TYPE, LOCATION AND INVERTS AS REQUIRED.
6. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING OF ANY AND ALL DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THE CONTRACT DOCUMENTS BEFORE PROCEEDING WITH THAT PORTION OF THE WORK.
7. THE LOCATIONS OF EXISTING SITE FEATURES AS SHOWN HAVE BEEN OBTAINED FROM MAPS, SURVEYS, FIELD INSPECTIONS, AND OTHER AVAILABLE INFORMATION. THEY MUST BE CONSIDERED APPROXIMATE BOTH TO LOCATION, SIZE, AND AS-BUILT CONDITION AND ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL FIELD CONDITIONS.
8. ENGAGE A MASSACHUSETTS-LICENSED PROFESSIONAL LAND SURVEYOR TO PERFORM LAND-SURVEYING SERVICES REQUIRED, INCLUDING, BUT NOT LIMITED TO VERIFICATION AND LAYOUT OF PROPOSED IMPROVEMENTS, DIMENSIONS, AND ELEVATIONS. REPORT DISCREPANCIES TO THE ENGINEER.

**SITE PREPARATION NOTES:**

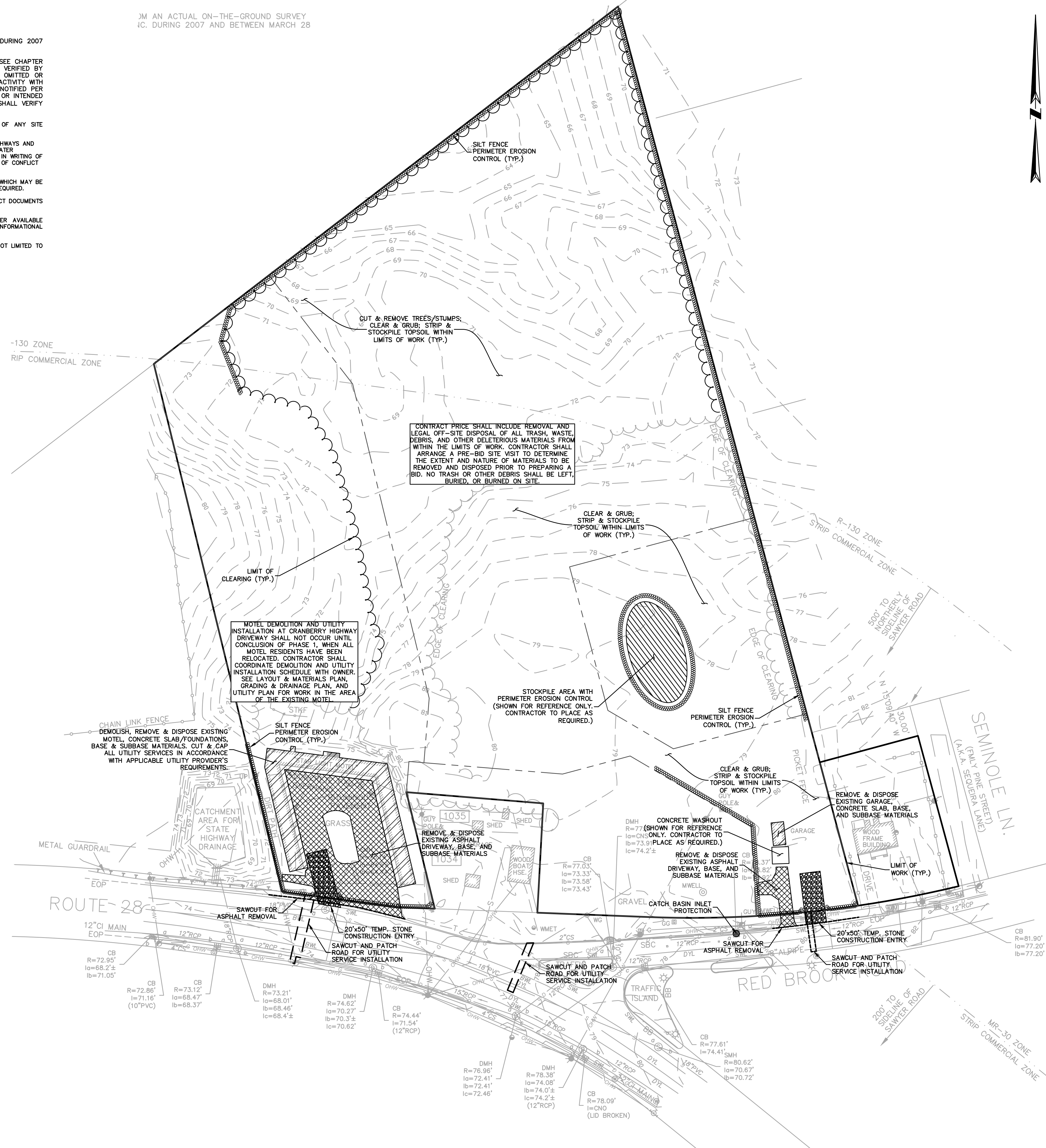
1. ALL EXISTING UTILITY STRUCTURES, CONDUITS, AND APPURTENANCES OF ANY KIND SHALL BE COMPLETELY REMOVED WITHIN THE LIMITS OF EXCAVATION FOR NEW BUILDINGS, UNLESS NOTED OTHERWISE ON THE DRAWINGS. OUTSIDE THE LIMITS OF EXCAVATION FOR NEW BUILDINGS, ALL ABANDONED AND TO-BE-ABANDONED UTILITIES GREATER THAN 8 INCHES IN DIAMETER SHALL BE SEALED BY FILLING WITH HIGH SLUMP CONCRETE (FLOWABLE FILL) AT THE LIMIT OF EXCAVATION. ALL UTILITY STRUCTURES TO BE REMOVED SHALL HAVE THE ASSOCIATED PIPES REMOVED TO A DISTANCE OF 15 FEET FROM THE STRUCTURE AND SEALED. ALL UTILITIES WITHIN PUBLIC WAYS SHALL BE ABANDONED OR REMOVED PER THE REQUIREMENTS OF THE APPLICABLE UTILITY COMPANY.
2. EROSION AND SEDIMENTATION CONTROLS TO BE APPROPRIATELY SIZED AND LOCATED/RELOCATED BY THE CONTRACTOR DURING EARTHWORK OPERATIONS.
3. CONTRACTOR SHALL WORK WITH LANDSCAPE ARCHITECT TO DETERMINE SCOPE OF TREE WORK.
4. ALL CONSTRUCTION FENCING AND WARNING SIGNS SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION. INSTALL CONSTRUCTION FENCING AT THE LIMIT OF WORK.
5. PRIOR TO THE TERMINATION, ABANDONMENT, OR REMOVAL OF ANY UTILITY, VERIFY THAT APPLICABLE NOTIFICATIONS HAVE BEEN MADE TO THE UTILITY OWNER/OPERATOR AND THAT THE UTILITY HAS BEEN PROPERLY TERMINATED, CAPPED, OR PLUGGED AS REQUIRED.
6. PROTECT ALL IMPROVEMENTS NOT INCLUDED IN THE SCOPE OF SITE DEMOLITION. ANY IMPROVEMENT WHICH IS DAMAGED SHALL BE REPAIRED OR REPLACED IN-KIND TO THE OWNER'S SATISFACTION AT NO ADDITIONAL COST.

**EROSION AND SEDIMENT CONTROL NOTES:**

1. THE PROJECT WORK SHALL COMPLY WITH THE 2017 NPDES CONSTRUCTION GENERAL PERMIT FOR MASSACHUSETTS (CGP). A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE PROVIDED TO THE CONTRACTOR AND THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE SWPPP. THE CONTRACTOR SHALL PROVIDE EVIDENCE THAT A NOTICE OF INTENT (NOI) HAS BEEN FILED FOR COVERAGE UNDER THE CGP AT LEAST 14 DAYS PRIOR TO THE START OF ANY EARTH DISTURBING ACTIVITIES. NO EARTH DISTURBING ACTIVITIES SHALL OCCUR UNTIL THE CONTRACTOR HAS OBTAINED COVERAGE UNDER THE CGP.
2. APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO SOIL DISTURBANCE. MEASURES SHALL BE TAKEN TO CONTROL EROSION WITHIN THE PROJECT AREA. SEDIMENT IN RUNOFF WATER SHALL BE TRAPPED AND RETAINED WITHIN THE PROJECT AREA.
3. MINIMIZE TOTAL AREA OF DISTURBANCE AND PROTECT NATURAL FEATURES AND SOIL.
4. THE CONTRACTOR SHALL SEQUENCE ALL ACTIVITIES TO MINIMIZE SIMULTANEOUS AREAS OF DISTURBANCE. MASS CLEARING AND GRADING OF THE ENTIRE SITE SHALL BE AVOIDED.
5. MINIMIZE SOIL EROSION AND CONTROL SEDIMENTATION DURING CONSTRUCTION.
6. DIVERT UNCONTAMINATED WATER AROUND DISTURBED AREAS.
7. INSTALL AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND GOOD ENGINEERING PRACTICES OR IN ACCORDANCE WITH THE 2017 EPA CONSTRUCTION GENERAL PERMIT FOR MASSACHUSETTS.
8. PROTECT AND MANAGE ON AND OFF-SITE MATERIAL STORAGE AREAS (OVERBURDEN AND STOCKPILES OF DIRT, BORROW AREAS, OR OTHER AREAS USED SOLELY BY THE PERMITTED PROJECT ARE CONSIDERED A PART OF THE PROJECT).
9. COMPLY WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS INCLUDING WASTE DISPOSAL, SANITARY OR SEWER REGULATIONS, AND AIR QUALITY REQUIREMENTS, INCLUDING DUST CONTROL.
10. SEDIMENT SHALL BE REMOVED ONCE THE VOLUME REACHES HALF THE HEIGHT OF THE EROSION CONTROL DEVICE. SEDIMENT SHALL BE REMOVED PRIOR TO REACHING THE LOAD-BEARING CAPACITY OF THE SILT FENCE WHICH MAY BE LOWER THAN HALF THE HEIGHT.
11. BMPs TO BE USED FOR INFILTRATION AFTER CONSTRUCTION SHALL NOT BE USED AS BMPs DURING CONSTRUCTION UNLESS OTHERWISE APPROVED IN WRITING BY THE ENGINEER. MANY INFILTRATION TECHNOLOGIES ARE NOT DESIGNED TO HANDLE THE HIGH CONCENTRATIONS OF SEDIMENTS TYPICALLY FOUND IN CONSTRUCTION RUNOFF, AND THIS MUST BE PROTECTED FROM CONSTRUCTION RELATED SEDIMENT LOADINGS.
12. SOIL STOCKPILE SIDE SLOPES SHALL NOT BE GREATER THAN 2H:1V. ALL STOCKPILES SHALL BE SURROUNDED BY SEDIMENT CONTROLS.
13. A TRACKING PAD OR OTHER APPROVED STABILIZATION METHOD SHALL BE CONSTRUCTED AT ALL CONSTRUCTION ENTRANCE/EXIT POINTS OF THE SITE TO REDUCE THE AMOUNT OF SOIL CARRIED ONTO ROADWAYS AND OFF THE SITE.
14. PERMANENT SEEDING SHALL BE UNDERTAKEN IN THE SPRING FROM MARCH THROUGH MAY, AND IN LATE SUMMER AND EARLY FALL FROM AUGUST TO OCTOBER 15, DURING THE PEAK SUMMER MONTHS AND IN THE FALL AFTER OCTOBER 15, WHEN SEEDING IS FOUND TO BE IMPRACTICAL, APPROPRIATE TEMPORARY STABILIZATION SHALL BE APPLIED. PERMANENT SEEDING MAY BE UNDERTAKEN DURING THE SUMMER IF PLANS PROVIDE FOR ADEQUATE MULCHING AND WATERING.
15. TEMPORARY SEDIMENT TRAPPING DEVICES MUST NOT BE REMOVED UNTIL PERMANENT STABILIZATION IS ESTABLISHED IN ALL CONTRIBUTORY DRAINAGE AREAS.
16. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED AFTER FINAL SITE STABILIZATION. DISTURBED SOIL AREAS RESULTING FROM THE REMOVAL OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED WITHIN 30 DAYS OF REMOVAL.
17. DUST SHALL BE CONTROLLED AT THE SITE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.
18. ALL PREVIOUSLY DISTURBED LAND SHALL BE STABILIZED BY APPROVED METHODS AFTER 14 DAYS IF LEFT UNDISTURBED. THIS INCLUDES STOCKPILES, CONSTRUCTION ENTRANCES, GRADED AREAS AND OTHER CONSTRUCTION ACTIVITY RELATED CLEARING.
19. IF WORK IS HALTED OVER WINTER MONTHS THE CONTRACTOR SHALL BE RESPONSIBLE FOR STABILIZING THE AREA THROUGH GROUND COVER PRACTICES.

**TEMPORARY E&S MEASURES MAINTENANCE SCHEDULE**

E&S MEASURE	MAINTENANCE MEASURES	SCHEDULE
CONSTRUCTION ENTRANCE	SWEEP PAVED ROADWAY ADJACENT TO SITE ENTRANCE AS NECESSARY. REFRESH STONE AS NECESSARY, REMOVE SILTED GRAVEL	WEEKLY
MOISTEN EXPOSED SOILS	PERIODICALLY MOISTEN EXPOSED SOIL SURFACES WITH WATER ON UNPAVED TRAVELWAYS AND KEEP TRAVELWAYS DAMP	DAILY



**BSC GROUP**  
 803 Summer Street  
 Boston, Massachusetts  
 02127  
 617 896 4300

Proposed Design for  
**Woodland Cove**  
**Phase I**  
 Buildings E, F, & COMMUNITY BUILDING  
 3102 Cranberry Highway  
 Wareham, MA 02552



SHEET CONTENTS:  
 SITE PREPARATION PLAN

PROJECT # 8-3669.00  
 DATE: 9/22/2020  
 REVISED DATE:  
 REVISION: 02/16/2021

SCALE: 1" = 50'  
 0 25 50 100  
**C-100**

CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

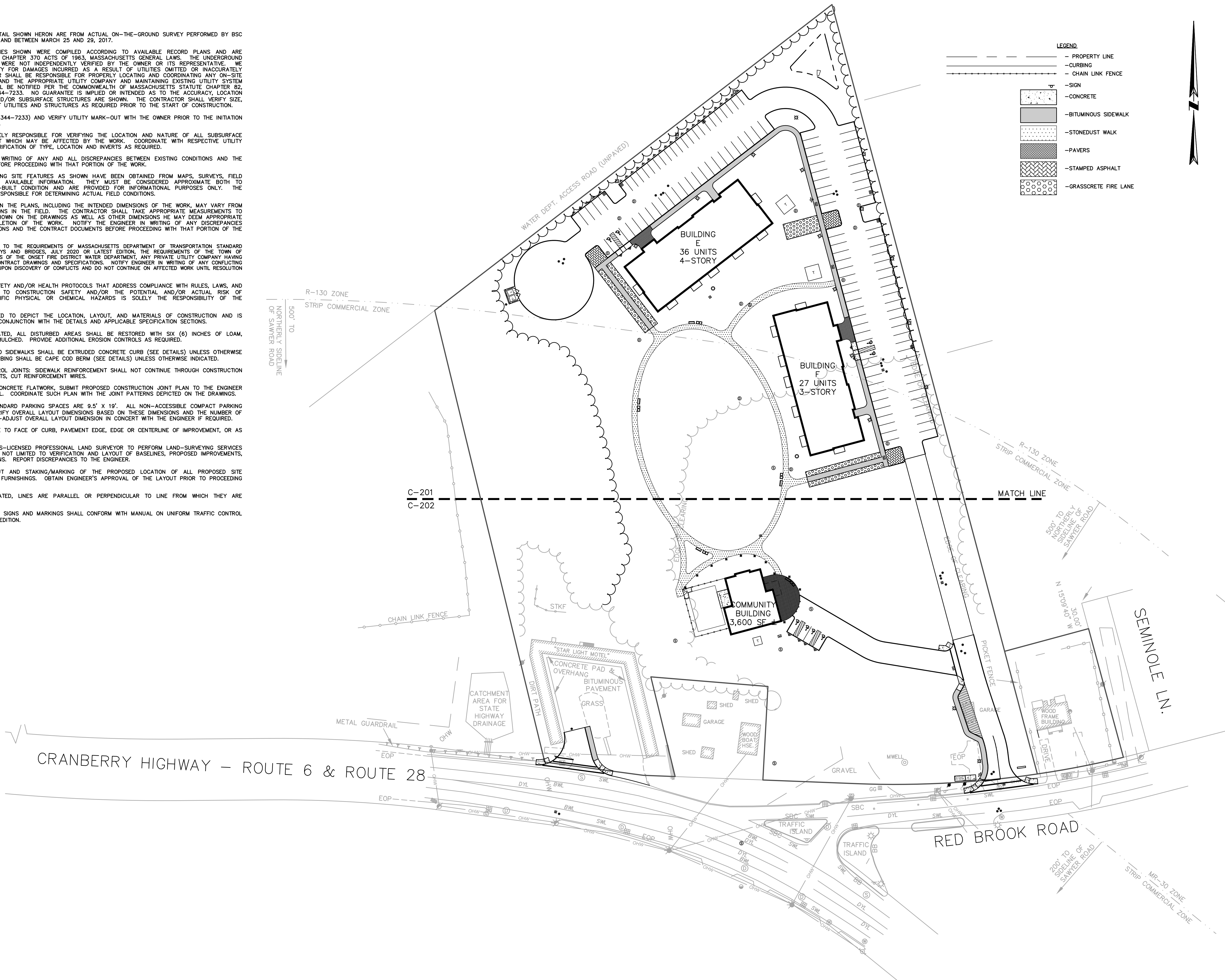
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9. IMPLEMENTING WORKER SAFETY AND/OR HEALTH PROTOCOLS THAT ADDRESS COMPLIANCE WITH RULES, LAWS, AND REGULATIONS PERTAINING TO CONSTRUCTION SAFETY AND/OR THE POTENTIAL AND/OR ACTUAL RISK OF EXPOSURE TO SITE-SPECIFIC PHYSICAL OR CHEMICAL HAZARDS IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
10. THIS DRAWING IS INTENDED TO DEPICT THE LOCATION, LAYOUT, AND MATERIALS OF CONSTRUCTION AND IS INTENDED TO BE USED IN CONJUNCTION WITH THE DETAILS AND APPLICABLE SPECIFICATION SECTIONS.
11. UNLESS OTHERWISE INDICATED, ALL DISTURBED AREAS SHALL BE RESTORED WITH SIX (6) INCHES OF LOAM, SEEDED, FERTILIZED, AND MULCHED. PROVIDE ADDITIONAL EROSION CONTROLS AS REQUIRED.
12. ALL CURBING ADJACENT TO SIDEWALKS SHALL BE EXTRUDED CONCRETE CURB (SEE DETAILS) UNLESS OTHERWISE INDICATED. ALL OTHER CURBING SHALL BE CAPE COD BERM (SEE DETAILS) UNLESS OTHERWISE INDICATED.
13. CONSTRUCTION AND CONTROL JOINTS: SIDEWALK REINFORCEMENT SHALL NOT CONTINUE THROUGH CONSTRUCTION JOINTS. AT CONTROL JOINTS, CUT REINFORCEMENT WIRES.
14. PRIOR TO INITIATION OF CONCRETE FLATWORK, SUBMIT PROPOSED CONSTRUCTION JOINT PLAN TO THE ENGINEER FOR REVIEW AND APPROVAL. COORDINATE SUCH PLAN WITH THE JOINT PATTERNS DEPICTED ON THE DRAWINGS.
15. ALL NON-ACCESSIBLE STANDARD PARKING SPACES ARE 9.5' X 19'. ALL NON-ACCESSIBLE COMPACT PARKING SPACES ARE 8' X 15'. VERIFY OVERALL LAYOUT DIMENSIONS BASED ON THESE DIMENSIONS AND THE NUMBER OF SPACES INDICATED. FIELD-ADJUST OVERALL LAYOUT DIMENSION IN CONCERT WITH THE ENGINEER IF REQUIRED.
16. DIMENSIONS INDICATED ARE TO FACE OF CURB, PAVEMENT EDGE, EDGE OR CENTERLINE OF IMPROVEMENT, OR AS OTHERWISE NOTED.
17. ENGAGE A MASSACHUSETTS-LICENSED PROFESSIONAL LAND SURVEYOR TO PERFORM LAND-SURVEYING SERVICES REQUIRED, INCLUDING, BUT NOT LIMITED TO VERIFICATION AND LAYOUT OF BASELINES, PROPOSED IMPROVEMENTS, DIMENSIONS AND ELEVATIONS. REPORT DISCREPANCIES TO THE ENGINEER.
18. PROVIDE FOR THE LAYOUT AND STAKING/MARKING OF THE PROPOSED LOCATION OF ALL PROPOSED SITE IMPROVEMENTS, INCLUDING FURNISHINGS. OBTAIN ENGINEER'S APPROVAL OF THE LAYOUT PRIOR TO PROCEEDING WITH THE WORK.
19. UNLESS OTHERWISE INDICATED, LINES ARE PARALLEL OR PERPENDICULAR TO LINE FROM WHICH THEY ARE MEASURED.
20. ALL TRAFFIC AND PARKING SIGNS AND MARKINGS SHALL CONFORM WITH MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.

**LEGEND**

	- PROPERTY LINE
	- CURBING
	- CHAIN LINK FENCE
	- SIGN
	- CONCRETE
	- BITUMINOUS SIDEWALK
	- STONEDUST WALK
	- PAVERS
	- STAMPED ASPHALT
	- GRASSCRETE FIRE LANE



CRANBERRY HIGHWAY - ROUTE 6 & ROUTE 28

RED BROOK ROAD

SEMINOLE LN.

CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

**BSC GROUP**  
 803 Summer Street  
 Boston, Massachusetts  
 02127  
 617.896.4300

Proposed Design for:  
**Woodland Cove**  
**Phase I**  
 Buildings E, F, & COMMUNITY BUILDING  
 3102 Cranberry Highway  
 Wareham, MA 02552



SHEET CONTENTS:  
 LAYOUT & MATERIALS  
 PLAN (OVERALL)

PROJECT # 8-3669.00  
 DATE: 9/22/2020  
 REVISED DATE:  
 Δ REVISED: 02/16/2021

SCALE: 1" = 50'  
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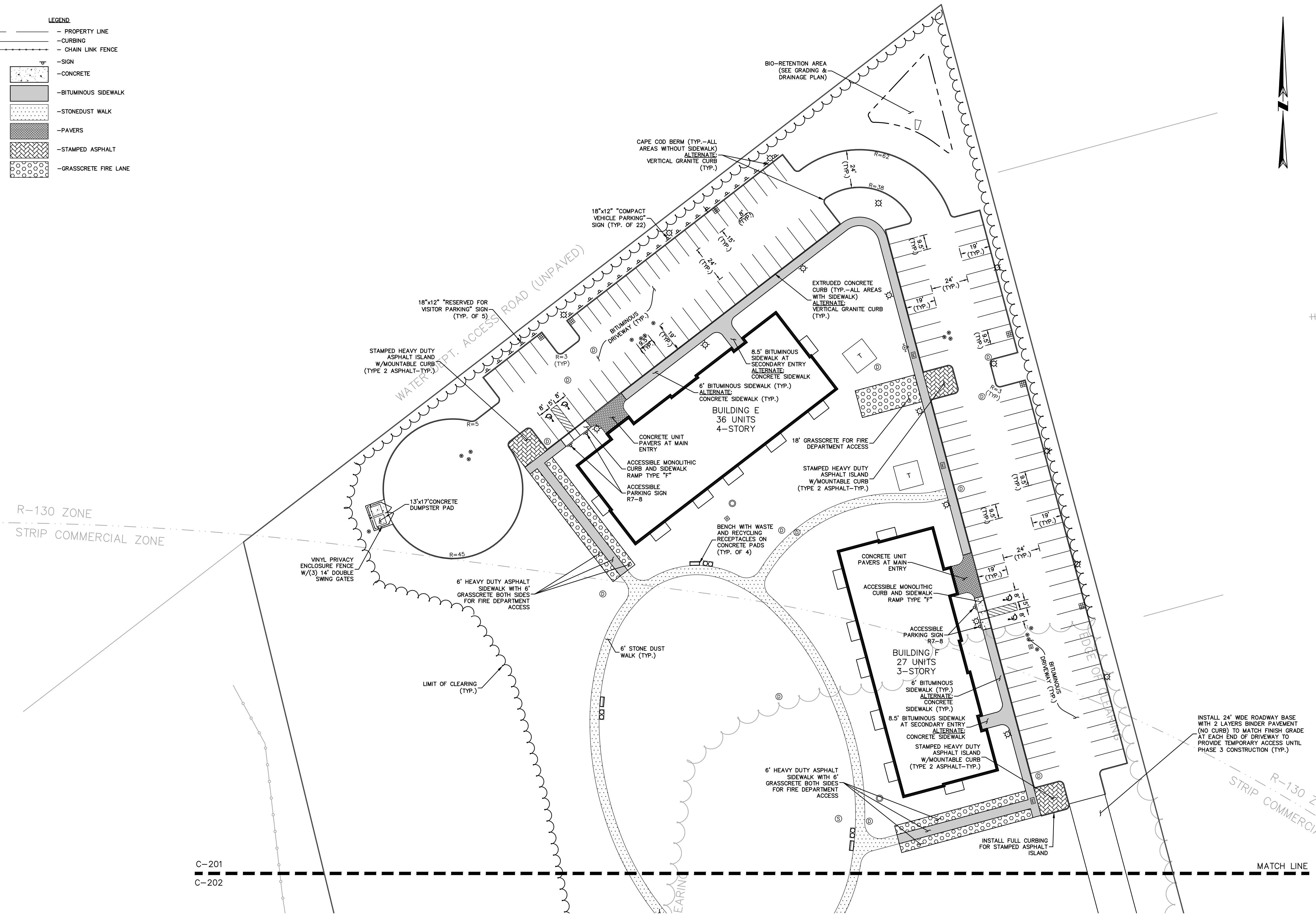
**C-200**

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**LEGEND**

- PROPERTY LINE
- CURBING
- CHAIN LINK FENCE
- SIGN
- CONCRETE
- BITUMINOUS SIDEWALK
- STONEDUST WALK
- PAVERS
- STAMPED ASPHALT
- GRASSCRETE FIRE LANE



C-201  
C-202

MATCH LINE

**BSC GROUP**  
803 Summer Street  
Boston, Massachusetts  
02127  
617.896.4300

Proposed Design for:  
**Woodland Cove**  
**Phase I**  
Buildings E, F, & COMMUNITY BUILDING  
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SHEET CONTENTS:  
  
LAYOUT & MATERIALS  
PLAN (NORTH)

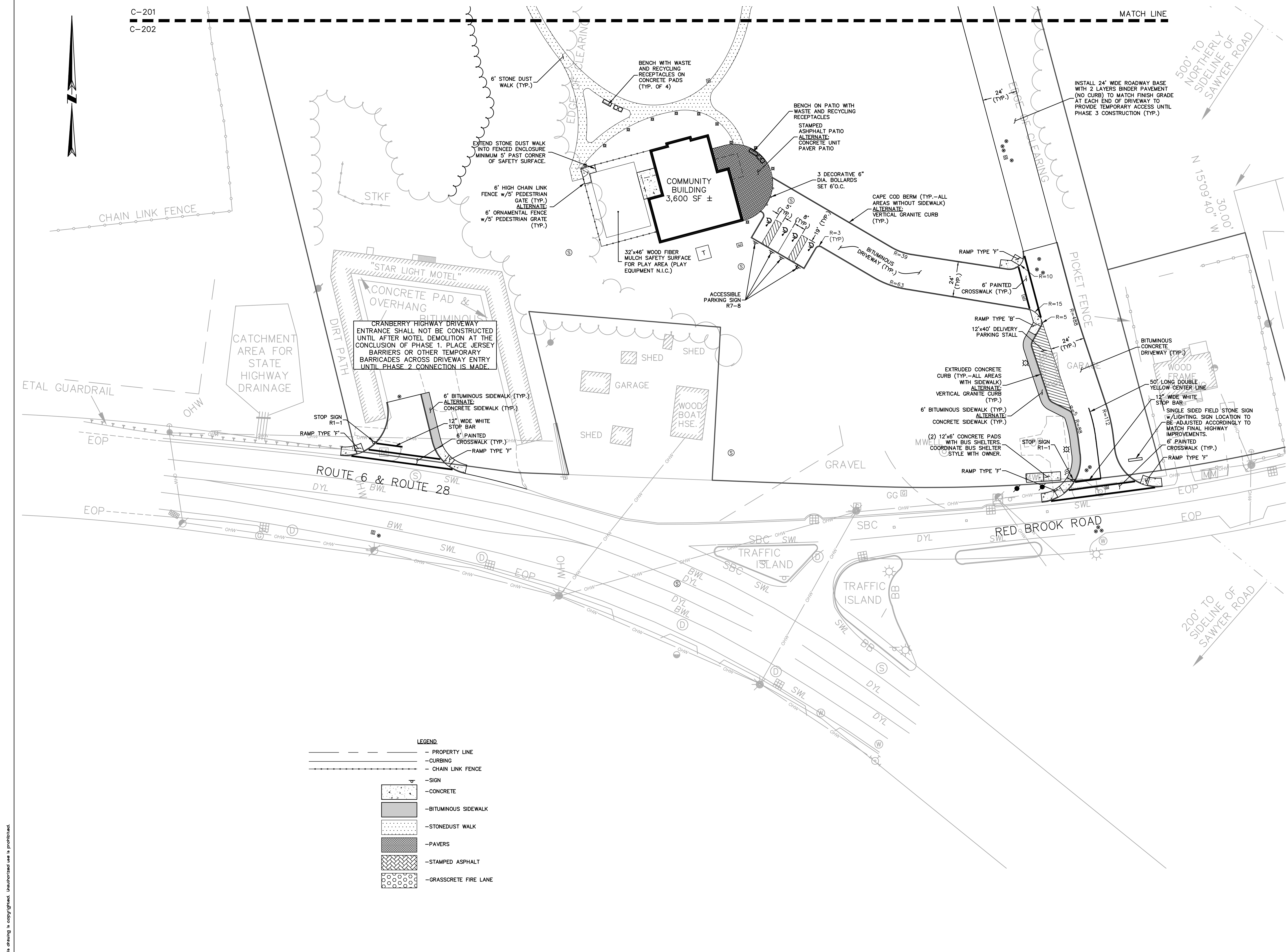
PROJECT # 8-3669.00  
DATE: 9/22/2020  
REVISED DATE:  
△ REVISED: 02/16/2021

SCALE: 1" = 30'  
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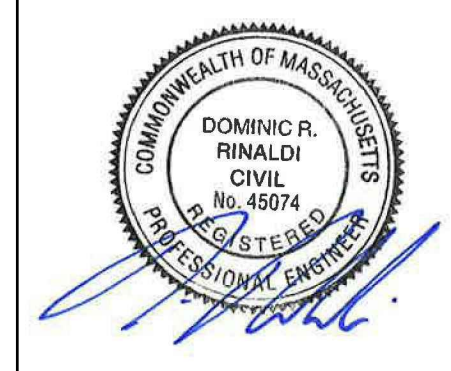
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SHEET CONTENTS:  
 LAYOUT & MATERIALS  
 PLAN (SOUTH)

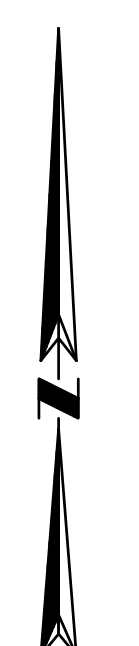
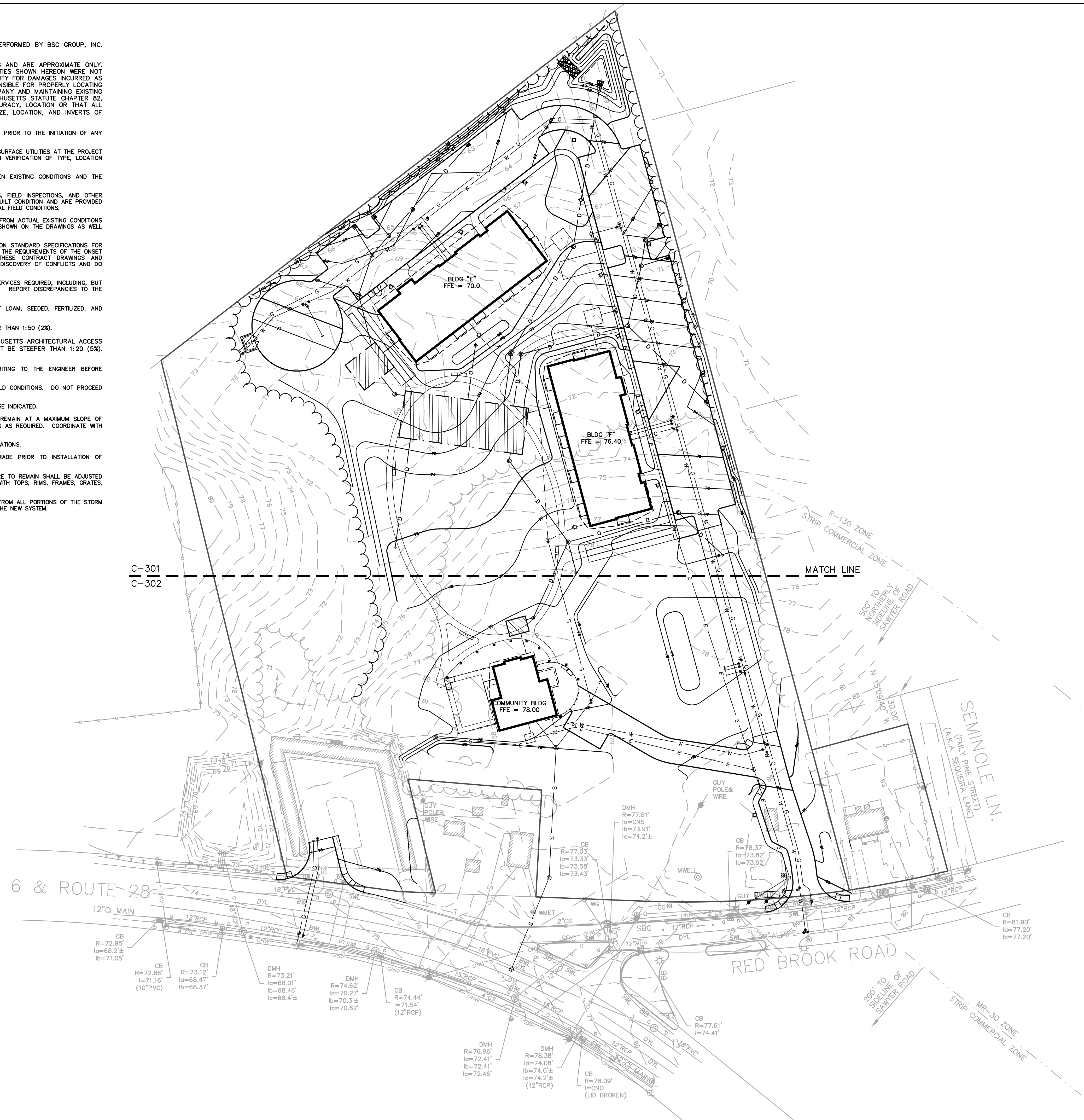
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10. UNLESS OTHERWISE INDICATED, ALL DISTURBED AREAS SHALL BE RESTORED WITH SIX (6) INCHES OF LOAM, SEED, FERTILIZED, AND MULCHED. PROVIDE ADDITIONAL EROSION CONTROLS AS REQUIRED.
11. THE CROSS-SLOPE OF ANY SIDEWALK, WALKWAY, OR OTHER PEDESTRIAN SURFACE SHALL NOT BE STEEPER THAN 1:50 (2%).
12. ALL WALKWAYS SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT (ADA) AND MASSACHUSETTS ARCHITECTURAL ACCESS BOARD (AAB) REGULATIONS (521 CMR). THE RUNNING SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:20 (5%). THE CROSS SLOPE OF A WALKING SURFACE SHALL NOT BE STEEPER THAN 1:50 (2%).
13. VERIFY ALL GRADES AND SLOPES PRIOR TO CONCRETE PLACEMENT. REPORT DISCREPANCIES IN WRITING TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
14. PROPOSED GRADES INDICATE DESIGN INTENT. VERIFY ELEVATIONS AND MAKE ADJUSTMENTS TO MEET FIELD CONDITIONS. DO NOT PROCEED WITH ANY ADJUSTMENT OR FIELD MODIFICATION UNTIL APPROVED BY THE ENGINEER.
15. GRADE TRANSITION BETWEEN TOPOGRAPHIC LINES AND SPOT GRADES SHALL BE UNIFORM UNLESS OTHERWISE INDICATED.
16. UNLESS OTHERWISE INDICATED, BLEND TRANSITIONS IN ELEVATION BETWEEN NEW WORK AND AREAS TO REMAIN AT A MAXIMUM SLOPE OF 1V:3H AND RESTORE WITH SIX (6) INCHES OF LOAM AND SEED. PROVIDE ADDITIONAL EROSION CONTROLS AS REQUIRED. COORDINATE WITH ENGINEER IF DIMENSIONAL CONSTRAINTS REQUIRE STEEPER SLOPES.
17. ALL DRAINAGE PIPE SHALL BE HIGH DENSITY POLYETHYLENE, UNLESS OTHERWISE INDICATED. SEE SPECIFICATIONS.
18. UPON REACHING PROPOSED SUBGRADE ELEVATIONS WITHIN THE FIELD, ENGINEER WILL REVIEW SUBGRADE PRIOR TO INSTALLATION OF DRAINAGE SYSTEM. SEE SPECIFICATIONS.
19. THE TOPS, RIMS, FRAMES, GRATES, AND COVERS (AS APPLICABLE) OF ALL UTILITY STRUCTURES THAT ARE TO REMAIN SHALL BE ADJUSTED TO MATCH FINAL GRADE IN A FLUSH CONDITION. ALL NEW UTILITY STRUCTURES SHALL BE INSTALLED WITH TOPS, RIMS, FRAMES, GRATES, AND COVERS (AS APPLICABLE) TO FINAL GRADE IN A FLUSH CONDITION.
20. AT THE CONCLUSION OF THE WORK, CONTRACTOR SHALL REMOVE ALL ACCUMULATED SEDIMENT MATERIAL FROM ALL PORTIONS OF THE STORM DRAINAGE SYSTEM, INCLUDING NEW WORK AND EXISTING WORK THAT REMAINS OR IS INCORPORATED INTO THE NEW SYSTEM.



**BSC GROUP**  
 803 Summer Street  
 Boston, Massachusetts  
 02127  
 617.896.4300

Proposed Design for:  
**Woodland Cove**  
**Phase I**  
 Buildings E, F, & COMMUNITY BUILDING  
 3102 Cranberry Highway  
 Wareham, MA 02552



SHEET CONTENTS:

GRADING & DRAINAGE  
 PLAN (OVERALL)

PROJECT # 8-3669.00

DATE: 9/22/2020  
 REVISED DATE:  
 REVISD: 02/16/2021

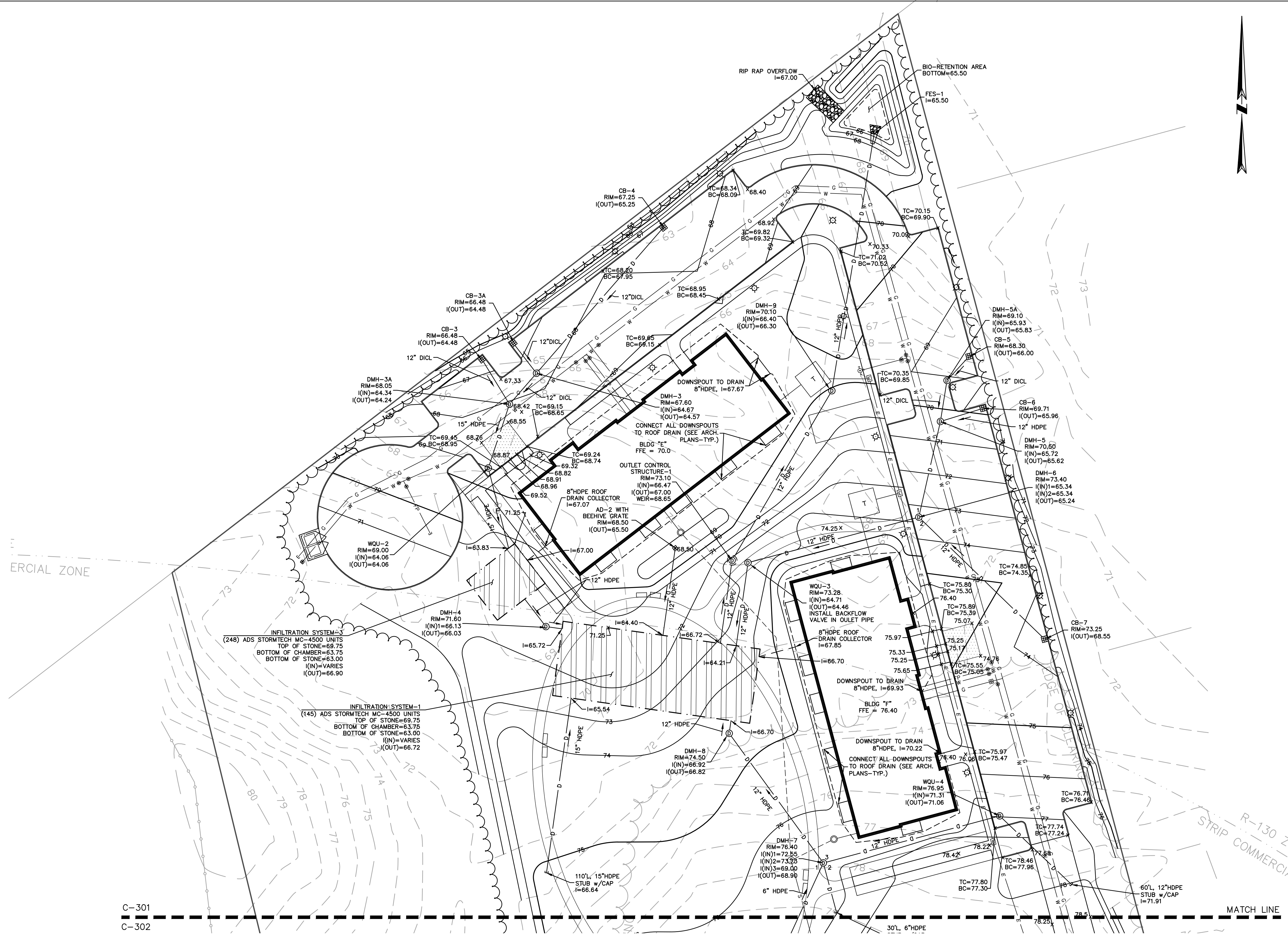
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**C-300**

CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

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C-301  
C-302

MATCH LINE

CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

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 02127  
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**Woodland Cove**  
**Phase I**  
 Buildings E, F, & COMMUNITY BUILDING  
 3102 Cranberry Highway  
 Wareham, MA 02532



SHEET CONTENTS:

GRADING & DRAINAGE  
PLAN (NORTH)

PROJECT # 8-3669.00

DATE: 9/22/2020  
REVISED DATE:  
REVISOR: 02/16/2021

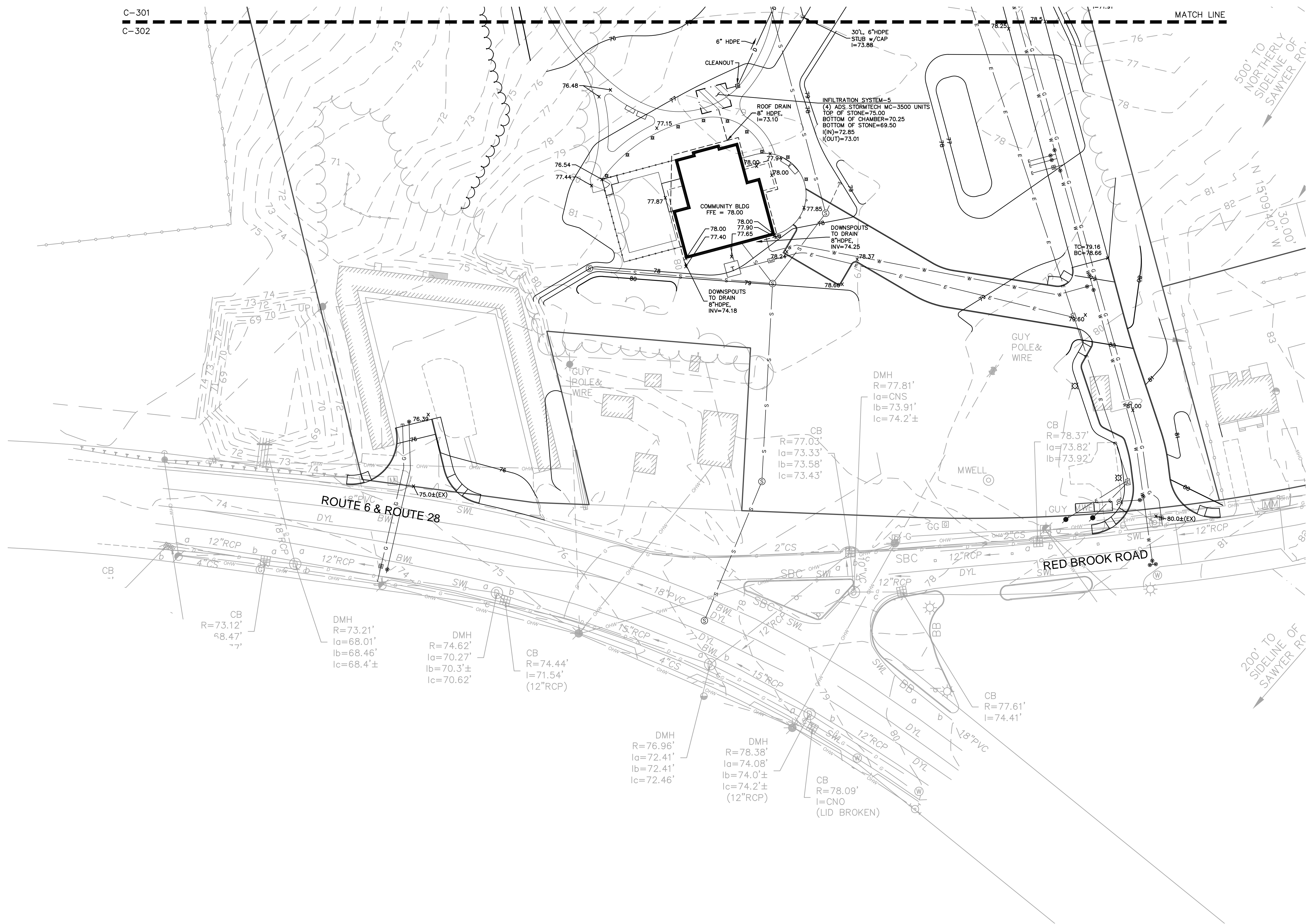
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0 15 30 60

**C-301**



C-301  
C-302

MATCH LINE



**BSC GROUP**  
 803 Summer Street  
 Boston, Massachusetts  
 02127  
 617.896.4300

Proposed Design for:  
**Woodland Cove**  
**Phase I**  
 Buildings E, F, & COMMUNITY BUILDING  
 3102 Cranberry Highway  
 Wareham, MA 02532



SHEET CONTENTS:

GRADING & DRAINAGE  
PLAN (SOUTH)

PROJECT # 8-3669.00

DATE: 9/22/2020  
REVISED DATE:  
△ REVISED: 02/16/2021

SCALE: 1" = 30'  
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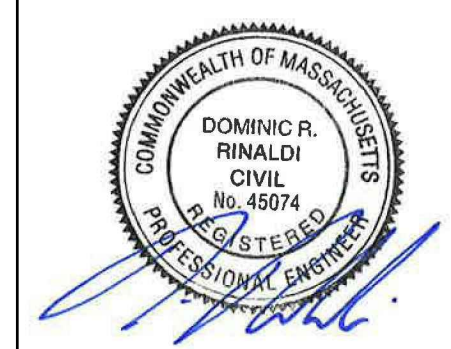
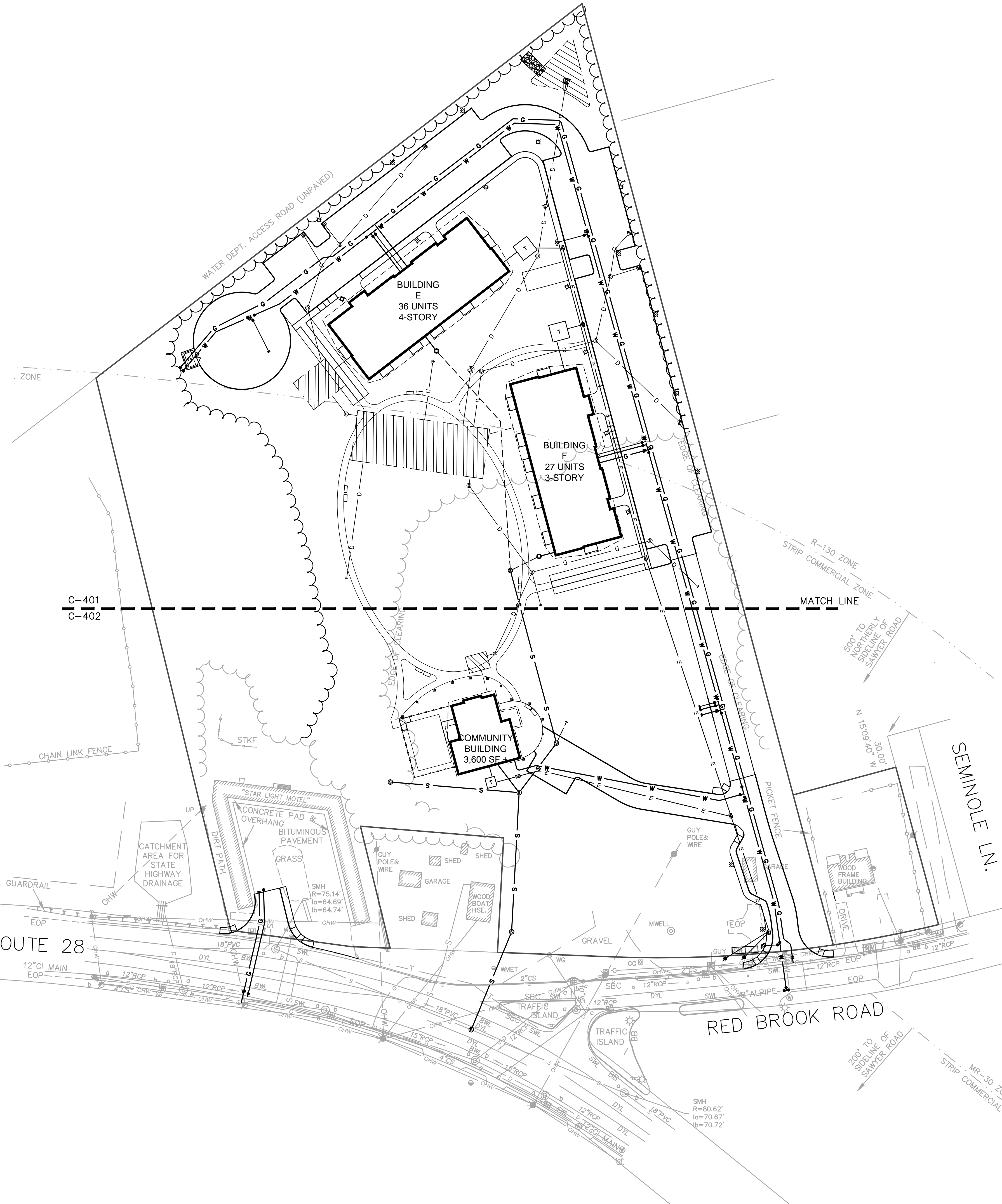
**C-302**

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**NOTES:**

1. THE TOPOGRAPHY AND DETAIL SHOWN HEREON ARE FROM ACTUAL ON-THE-GROUND SURVEY PERFORMED BY BSC GROUP, INC. DURING 2007 AND BETWEEN MARCH 25 AND 29, 2017.
2. ALL UNDERGROUND UTILITIES SHOWN WERE COMPILED ACCORDING TO AVAILABLE RECORD PLANS AND ARE APPROXIMATE ONLY. SEE CHAPTER 370 ACTS OF 1963, MASSACHUSETTS GENERAL LAWS. THE UNDERGROUND UTILITIES SHOWN HEREON WERE NOT INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. WE ASSUME NO RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES OMITTED OR INACCURATELY SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY LOCATING AND COORDINATING ANY ON-SITE ACTIVITY WITH DIG-SAFE AND THE APPROPRIATE UTILITY COMPANY AND MAINTAINING EXISTING UTILITY SYSTEM SERVICE. DIG-SAFE SHALL BE NOTIFIED PER THE COMMONWEALTH OF MASSACHUSETTS STATUTE CHAPTER 82, SECTION 40, AT 1-888-344-7233. NO GUARANTEE IS IMPLIED OR INTENDED AS TO THE ACCURACY, LOCATION OR THAT ALL UTILITIES AND/OR SUBSURFACE STRUCTURES ARE SHOWN. THE CONTRACTOR SHALL VERIFY SIZE, LOCATION, AND INVERTS OF UTILITIES AND STRUCTURES AS REQUIRED PRIOR TO THE START OF CONSTRUCTION.
3. THE LOCATIONS OF EXISTING UTILITIES AS SHOWN ON THE PLANS MAY VARY FROM ACTUAL EXISTING CONDITIONS IN THE FIELD. COORDINATE WITH RESPECTIVE UTILITY OWNERS AND PERFORM VERIFICATION OF TYPE, LOCATION AND INVERTS AS REQUIRED. VERIFY ALL TIE-IN POINTS, ROUTING, CONFLICTS, CROSSINGS, AND BUILDING CONNECTION POINTS TO FACILITATE THE COMPLETION OF THE WORK.
4. PERFORM EXPLORATORY EXCAVATIONS AS REQUIRED TO VERIFY THE AS-BUILT LOCATION OF EXISTING SUBSURFACE UTILITIES WHERE CROSSINGS OR OTHER POTENTIAL CONFLICTS ARE PRESENT.
5. NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THE CONTRACT DOCUMENTS BEFORE PROCEEDING WITH THAT PORTION OF THE WORK.
6. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF MASSACHUSETTS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, JULY 2020 OR LATEST EDITION, THE REQUIREMENTS OF THE TOWN OF WAREHAM, THE REQUIREMENTS OF THE ONSET FIRE DISTRICT WATER DEPARTMENT, ANY PRIVATE UTILITY COMPANY HAVING JURISDICTION, AND THESE CONTRACT DRAWINGS AND SPECIFICATIONS. NOTIFY ENGINEER IN WRITING OF ANY CONFLICTING REQUIREMENTS IMMEDIATELY UPON DISCOVERY OF CONFLICTS AND DO NOT CONTINUE ON AFFECTED WORK UNTIL RESOLUTION OF CONFLICT IS DETERMINED.
7. THE TOPS, RIMS, FRAMES, GRATES, AND COVERS (AS APPLICABLE) OF ALL UTILITY STRUCTURES THAT ARE TO REMAIN SHALL BE ADJUSTED TO MATCH FINAL GRADE IN A FLUSH CONDITION. ALL NEW UTILITY STRUCTURES SHALL BE INSTALLED WITH TOPS, RIMS, FRAMES, GRATES, AND COVERS (AS APPLICABLE) TO FINAL GRADE IN A FLUSH CONDITION.
8. ALL WORK ASSOCIATED WITH FIRE PROTECTION AND DOMESTIC WATER SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE ONSET FIRE DISTRICT WATER DEPARTMENT.
9. ALTHOUGH NOT SHOWN ON THE DRAWINGS, PROVIDE FOR THE INSTALLATION OF ALL JOINTS, COUPLINGS, RESTRAINTS, BENDS, ANGLES, AND OTHER APPURTENANCES TO ACHIEVE A COMPLETE, FUNCTIONAL WATER SUPPLY SYSTEM.
10. SANITARY SEWER PIPING AND FITTINGS SHALL BE TYPE PSM SDR-35. ALL SANITARY SEWER JOINTS ARE TO BE ELASTOMERIC GASKET JOINTS, WHICH PROVIDE A WATER TIGHT SEAL. ALL CONNECTIONS SHALL BE MADE IN ACCORDANCE WITH THE PIPE MANUFACTURER'S RECOMMENDATIONS. CONNECTIONS TO BUILDING SERVICES SHALL BE A FLEXIBLE COUPLING OF THE PROPER SIZE EQUIPPED WITH STAINLESS STEEL FASTENERS.
11. FIRE HYDRANT LOCATIONS SHOWN FOR REFERENCE ONLY. FINAL HYDRANT LOCATIONS SHALL BE DETERMINED BY ONSET FIRE DISTRICT PRIOR TO ISSUANCE OF BUILDING PERMIT.
12. AT ALL SEWER AND WATER CROSSINGS, BOTH PIPES SHALL BE ENCASED IN CONCRETE 10' TO EITHER SIDE OF CROSSING.



SHEET CONTENTS:  
 UTILITIES PLAN  
 (OVERALL)

PROJECT # 8-3669.00  
 DATE: 9/22/2020  
 REVISED DATE:  
 Δ REVISED: 02/16/2021

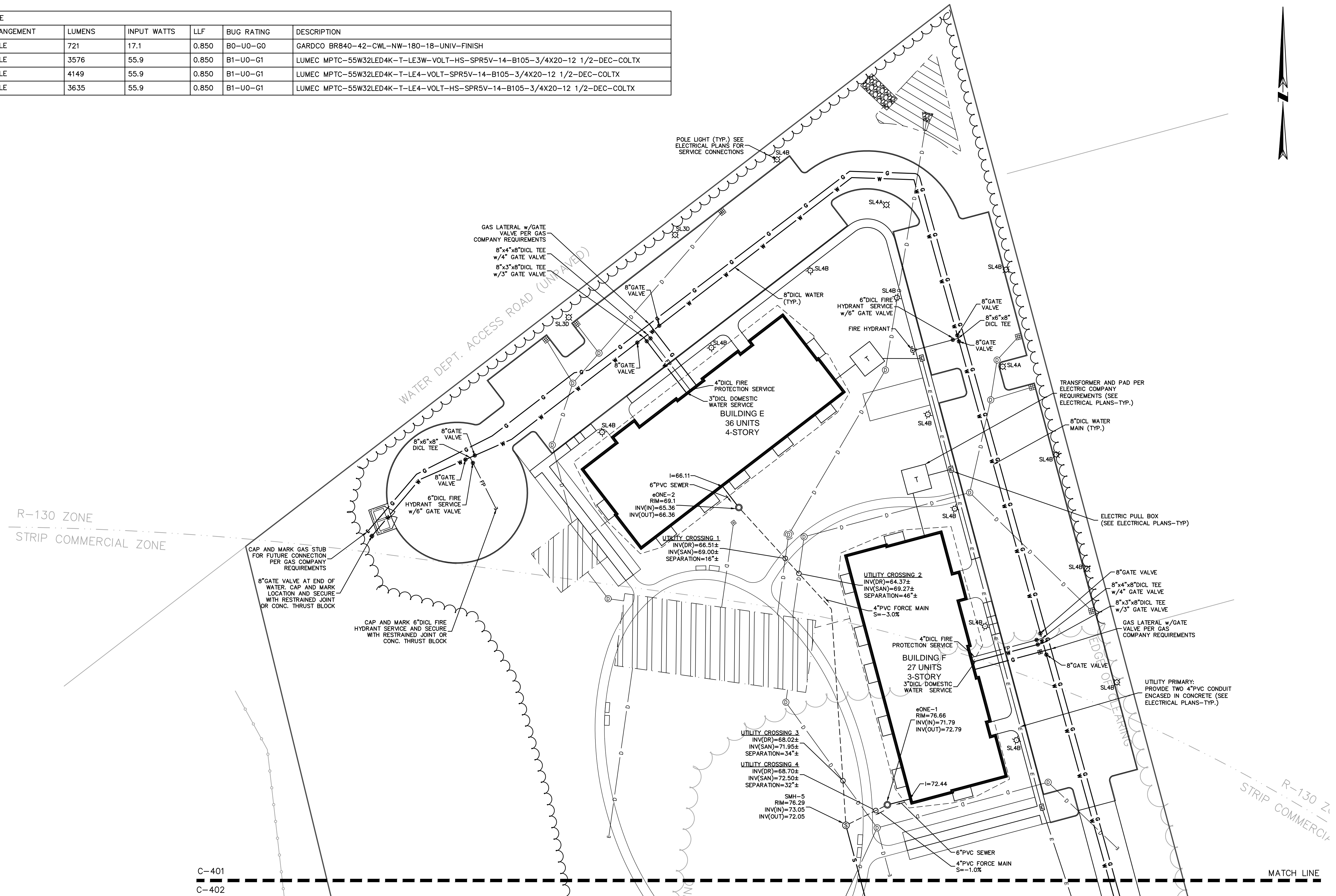
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 0 25 50 100

**C-400**

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LUMINAIRE SCHEDULE							
QTY	LABEL	ARRANGEMENT	LUMENS	INPUT WATTS	LLF	BUG RATING	DESCRIPTION
11	B1	SINGLE	721	17.1	0.850	B0-U0-G0	GARDCO BR840-42-CWL-NW-180-18-UNIV-FINISH
2	SL3D	SINGLE	3576	55.9	0.850	B1-U0-G1	LUMEC MPTC-55W32LED4K-T-LE3W-VOLT-HS-SPR5V-14-B105-3/4X20-12 1/2-DEC-COLTX
2	SL4A	SINGLE	4149	55.9	0.850	B1-U0-G1	LUMEC MPTC-55W32LED4K-T-LE4-VOLT-SPR5V-14-B105-3/4X20-12 1/2-DEC-COLTX
15	SL4B	SINGLE	3635	55.9	0.850	B1-U0-G1	LUMEC MPTC-55W32LED4K-T-LE4-VOLT-HS-SPR5V-14-B105-3/4X20-12 1/2-DEC-COLTX



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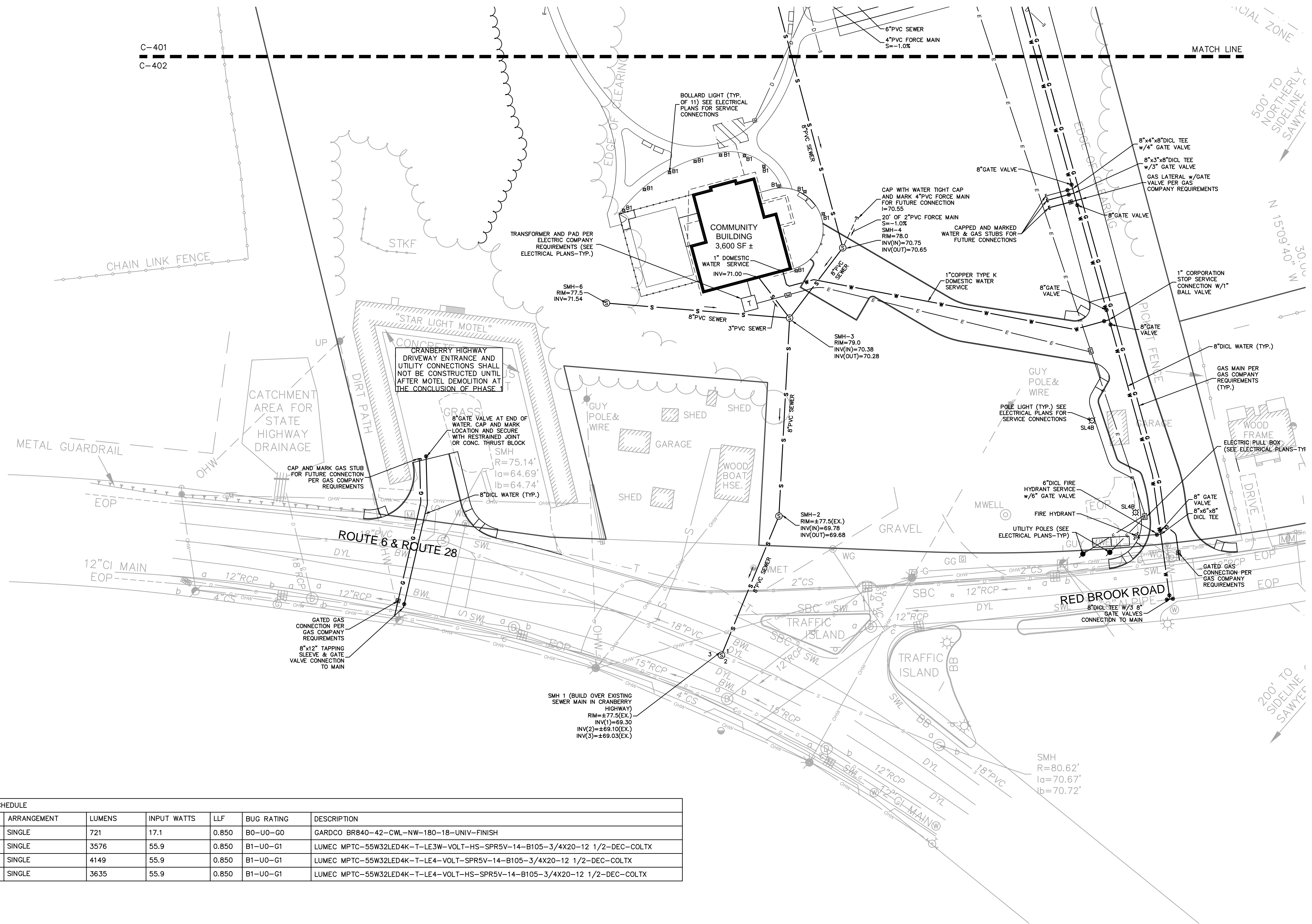


SHEET CONTENTS:  
 UTILITIES PLAN  
 (NORTH)

PROJECT # 8-3669.00  
 DATE: 9/22/2020  
 REVISED DATE:  
 Δ REVISED: 02/16/2021

SCALE: 1" = 30'  
 0 15 30 60

**C-401**



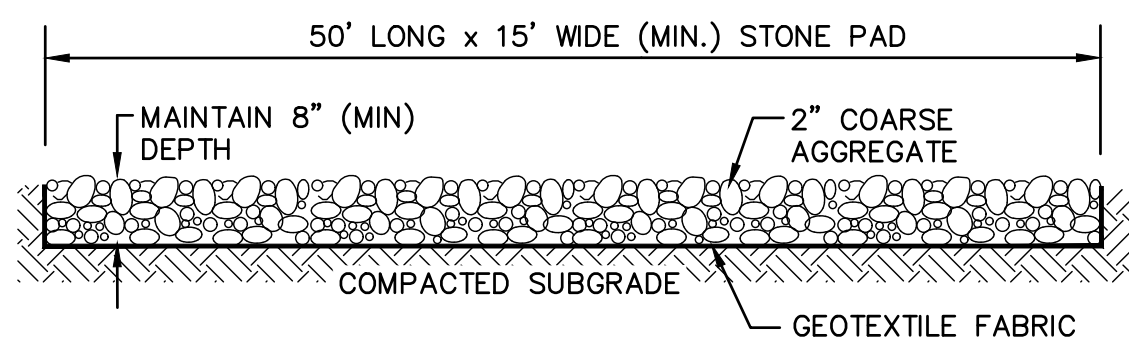
LUMINAIRE SCHEDULE							
QTY	LABEL	ARRANGEMENT	LUMENS	INPUT WATTS	LLF	BUG RATING	DESCRIPTION
11	B1	SINGLE	721	17.1	0.850	B0-U0-G0	GARCO BR840-42-CWL-NW-180-18-UNIV-FINISH
2	SL3D	SINGLE	3576	55.9	0.850	B1-U0-G1	LUMEC MPTC-55W32LED4K-T-LE3W-VOLT-HS-SPR5V-14-B105-3/4X20-12 1/2-DEC-COLT
2	SL4A	SINGLE	4149	55.9	0.850	B1-U0-G1	LUMEC MPTC-55W32LED4K-T-LE4-VOLT-SPR5V-14-B105-3/4X20-12 1/2-DEC-COLT
15	SL4B	SINGLE	3635	55.9	0.850	B1-U0-G1	LUMEC MPTC-55W32LED4K-T-LE4-VOLT-HS-SPR5V-14-B105-3/4X20-12 1/2-DEC-COLT



CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

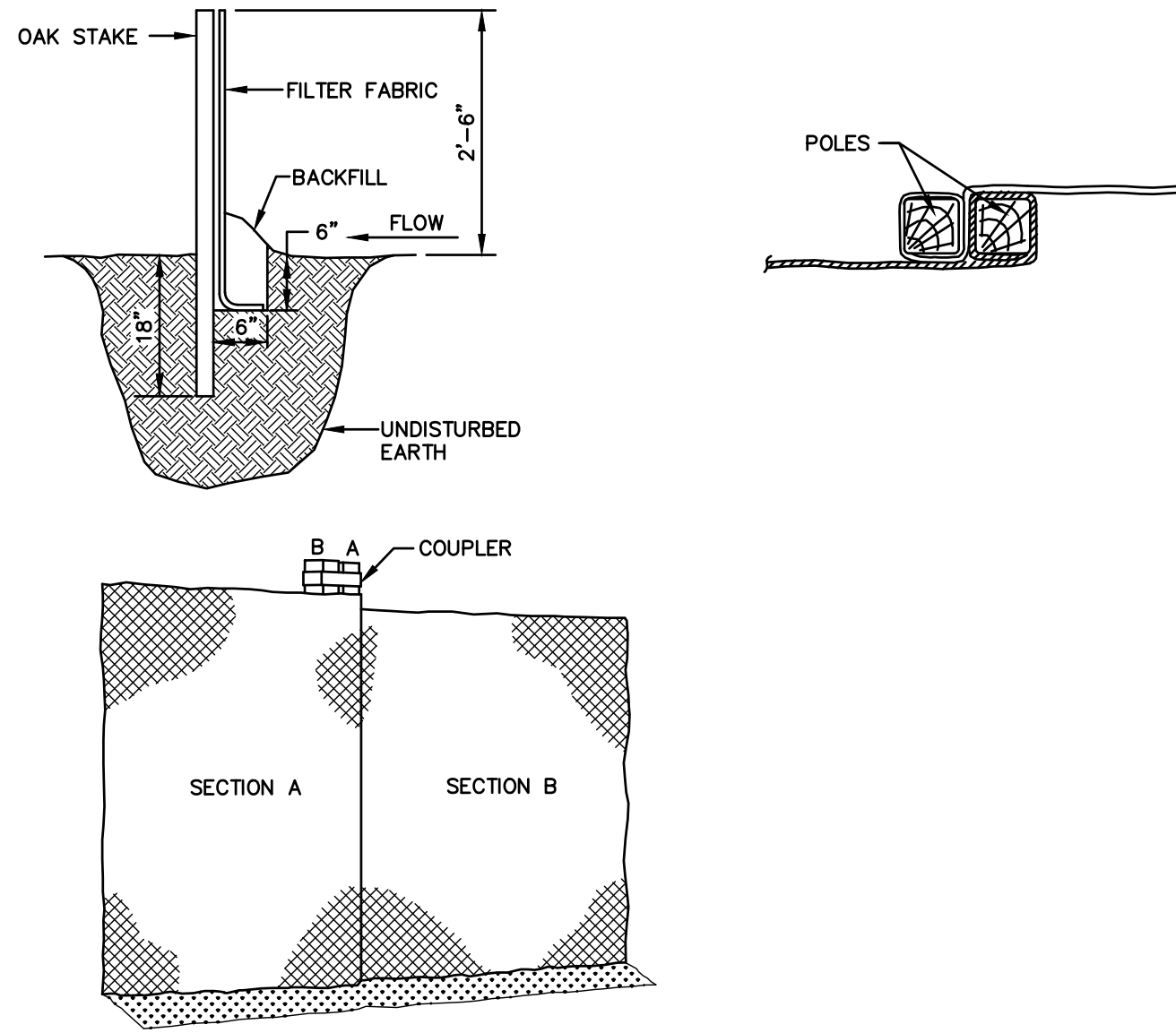
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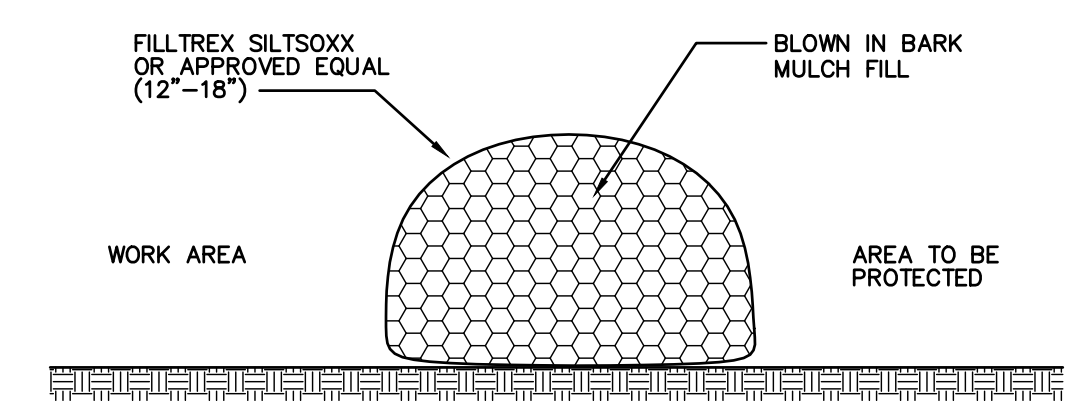
**TEMPORARY CONSTRUCTION ENTRANCE**

SCALE: NONE



**SILT FENCE**

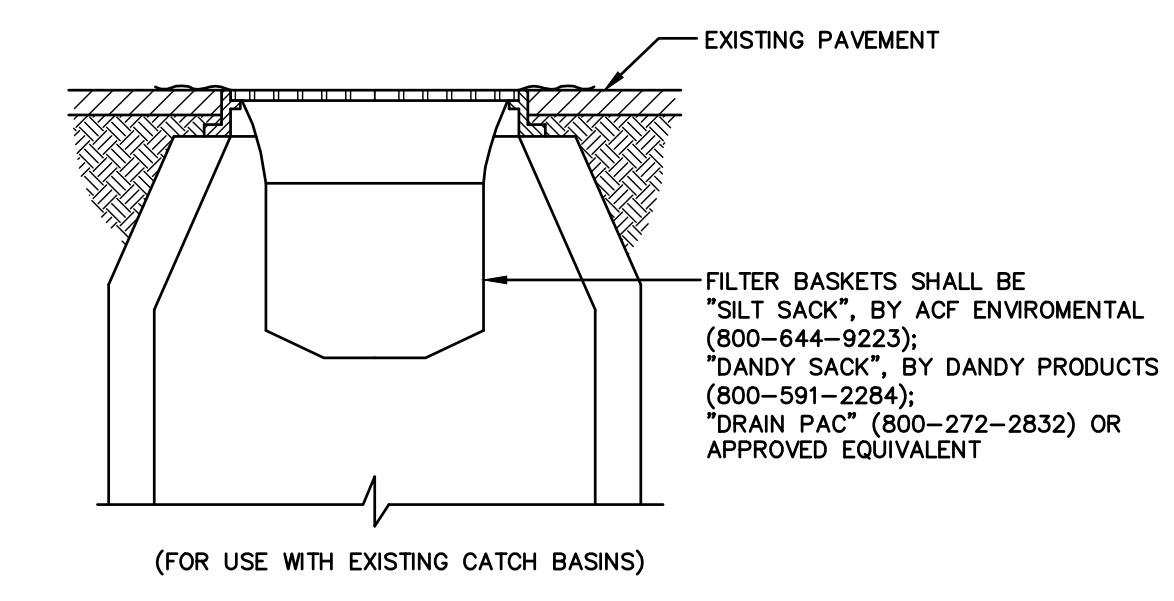
SCALE: NONE



**SILTSOXX**

SCALE: NONE

- NOTES:
1. ALL MATERIAL TO MEET FILTREXX SPECIFICATIONS.
  2. SILTISOXX COMPOST/SOIL/ROCK/SEED FILL TO MEET APPLICATION REQUIREMENTS.
  3. SILTISOXX DEPICTED IS FOR MINIMUM SLOPES. GREATER SLOPES MAY REQUIRE LARGER SOCKS PER THE ENGINEER.
  4. COMPOST MATERIAL TO BE DISPURSED ON SITE, AS DETERMINED BY THE ENGINEER.

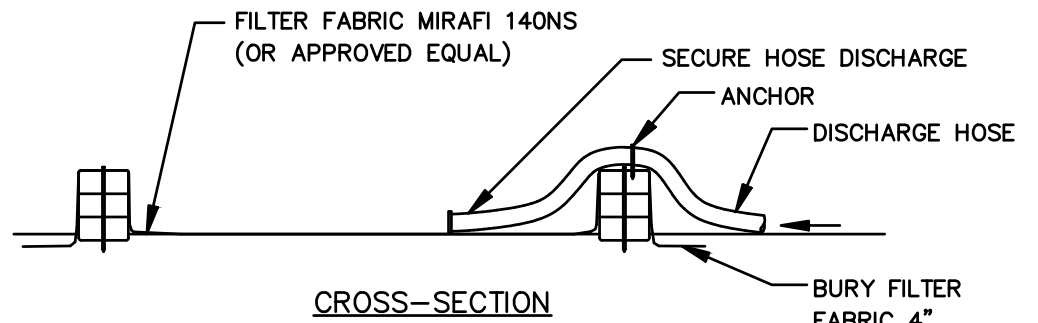
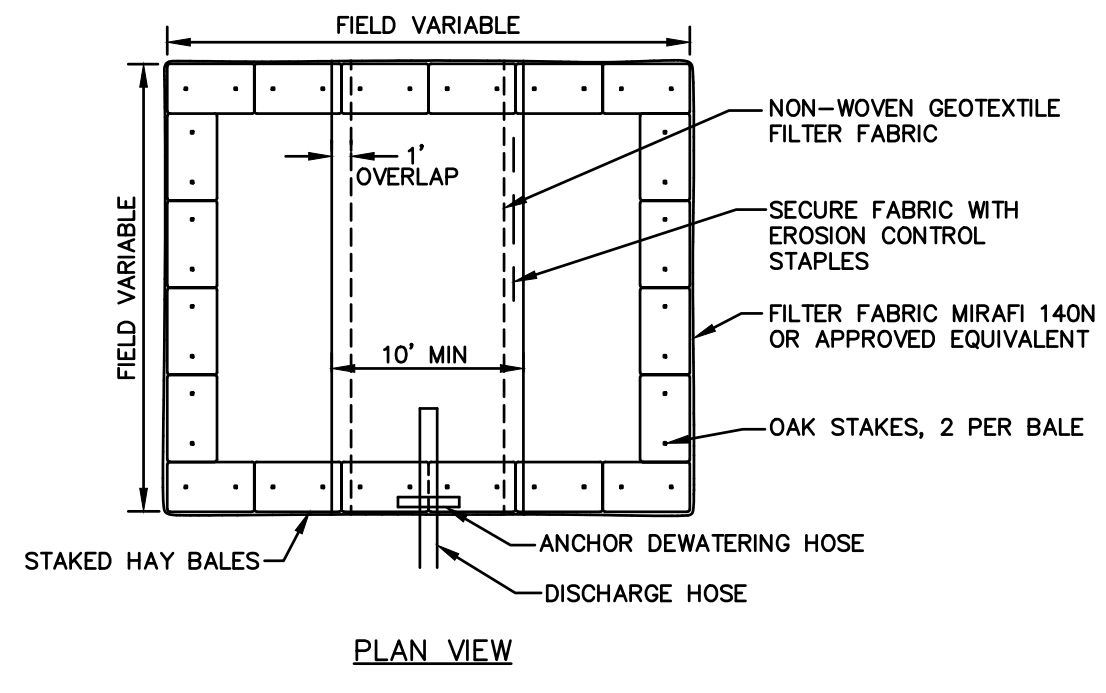


**SEDIMENT FILTER INLET PROTECTION**

SCALE: NONE

NOTE: FILTER BASKETS SHALL BE "SILT SACK", BY ACF ENVIRONMENTAL (800-644-9223); "DANDY SACK", BY DANDY PRODUCTS (800-591-2284); "DRAIN PAC" (800-272-2832) OR APPROVED EQUIVALENT

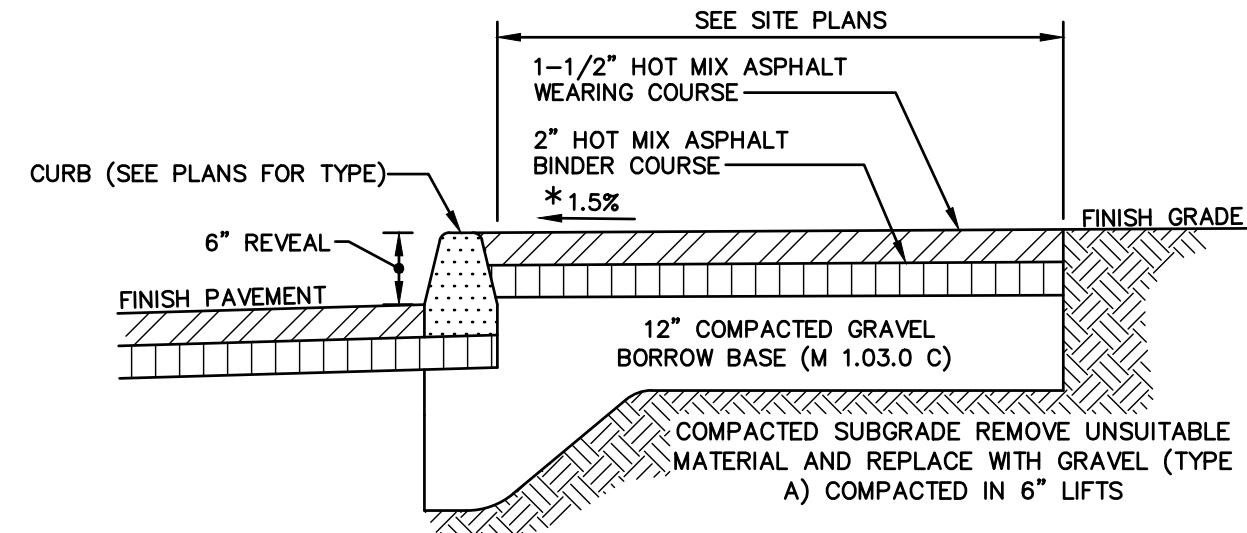
NOTE: FILTER BASKETS TO BE PLACED IN ALL CATCH BASINS IN THE VICINITY OF NEW CONSTRUCTION. CATCH BASINS ARE TO BE PROTECTED AS SHOWN, WITH MINIMUM WEEKLY MAINTENANCE, OR AS REQUIRED AND REPLACED IF NECESSARY.



- NOTES:
1. NUMBER OF BALES MAY VARY DEPENDING ON SITE CONDITIONS.
  2. THE BASIN TO BE SIZED ACCORDING TO: CUBIC FEET OF STORAGE = PUMP DISCHARGE RATE (gpm) x 16
  3. SIZE SHOWN ON PLANS SHALL BE ADJUSTED AS REQUIRED FOR THE ACTUAL PUMPING RATE.

**DEWATERING HAYBALE BASIN (TYPE 1)**

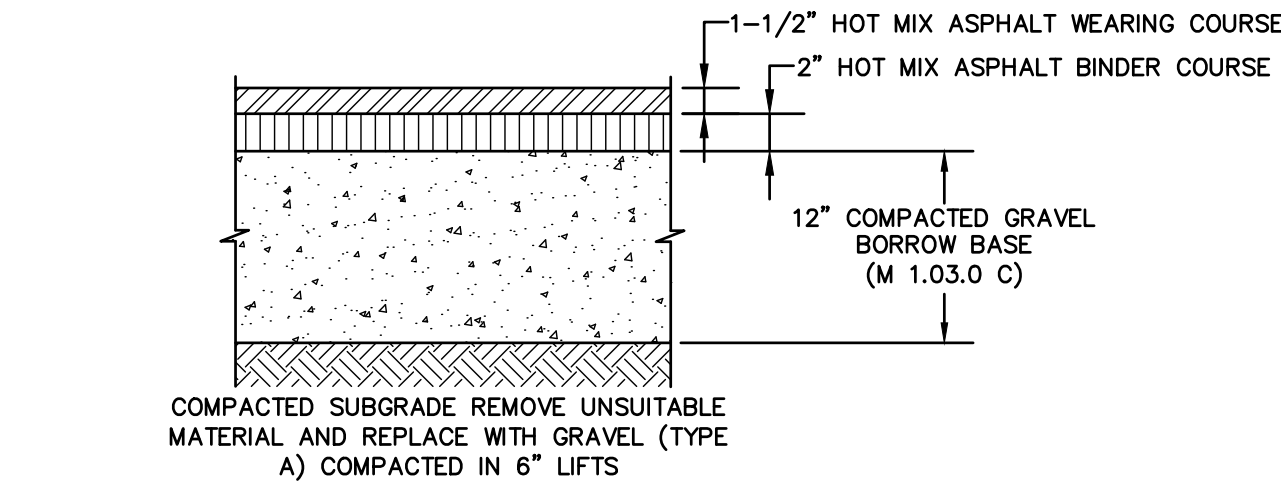
SCALE: NONE



**HEAVY DUTY ASPHALT SIDEWALK**

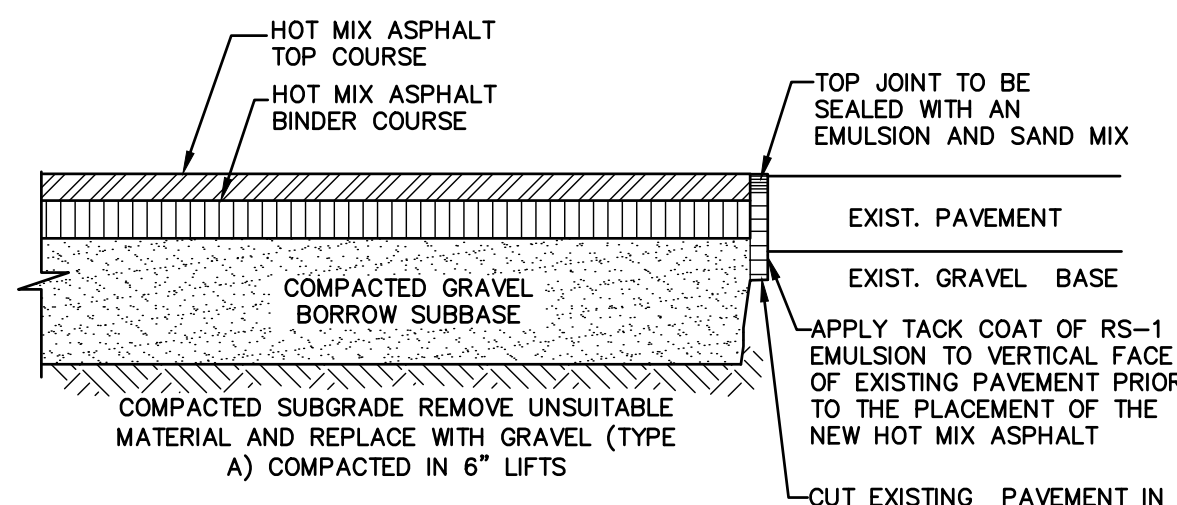
SCALE: NONE

NOTE: HEAVY DUTY ASPHALT SIDEWALK TO BE INSTALLED AT ALL LOCATIONS ADJACENT TO STAMPED ASPHALT ISLANDS AND BETWEEN GRASSCRETE FOR FIRE DEPARTMENT ACCESS.



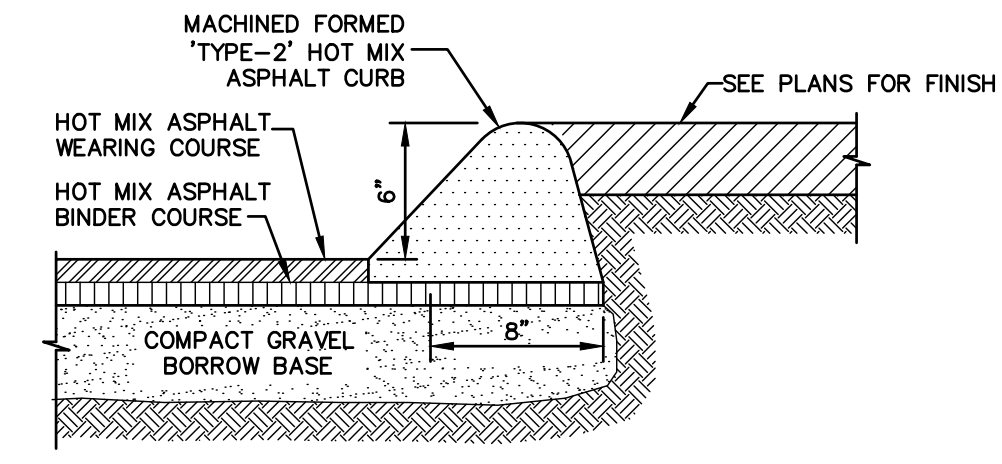
**BITUMINOUS DRIVEWAY SECTION**

SCALE: NONE



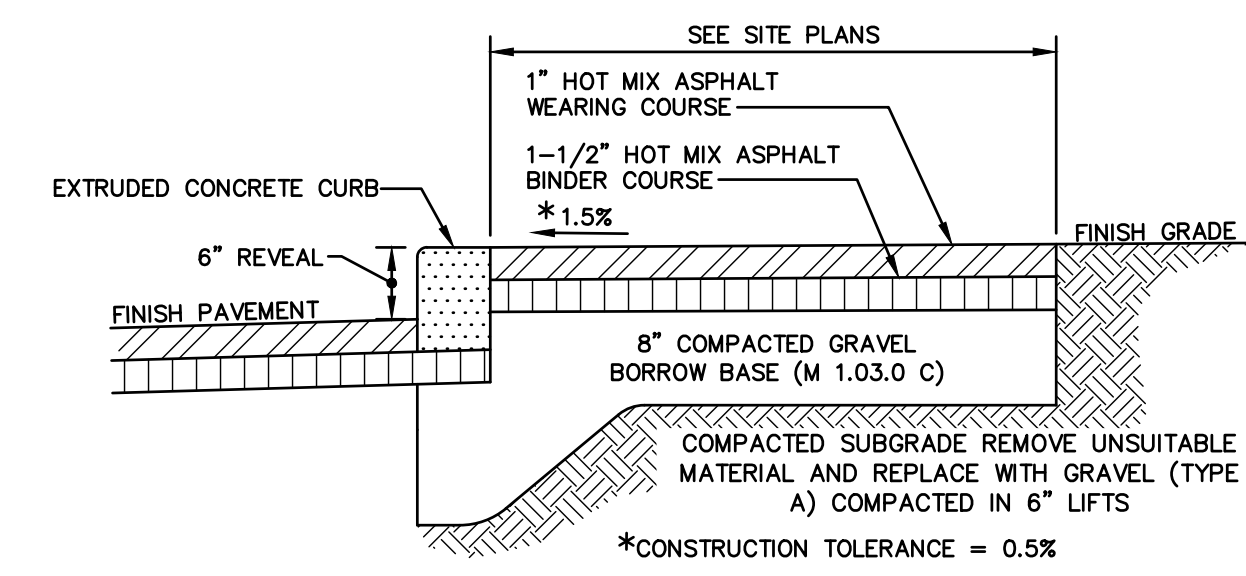
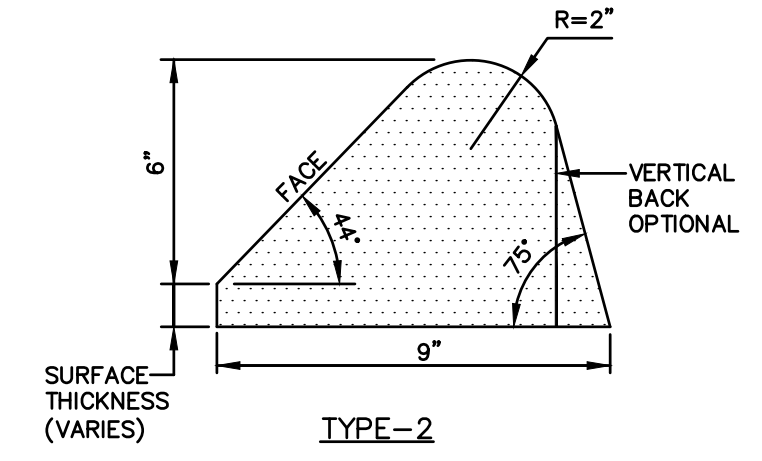
**HOT MIX ASPHALT PAVEMENT JOINTS**

SCALE: NONE



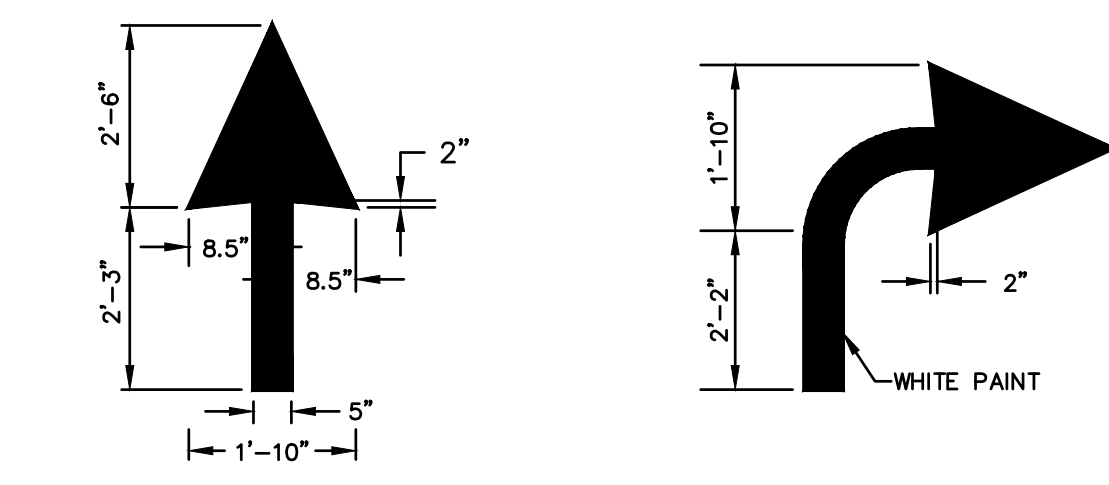
**HOT MIX ASPHALT MOUNTABLE CURB**

SCALE: NONE



**BITUMINOUS SIDEWALK**

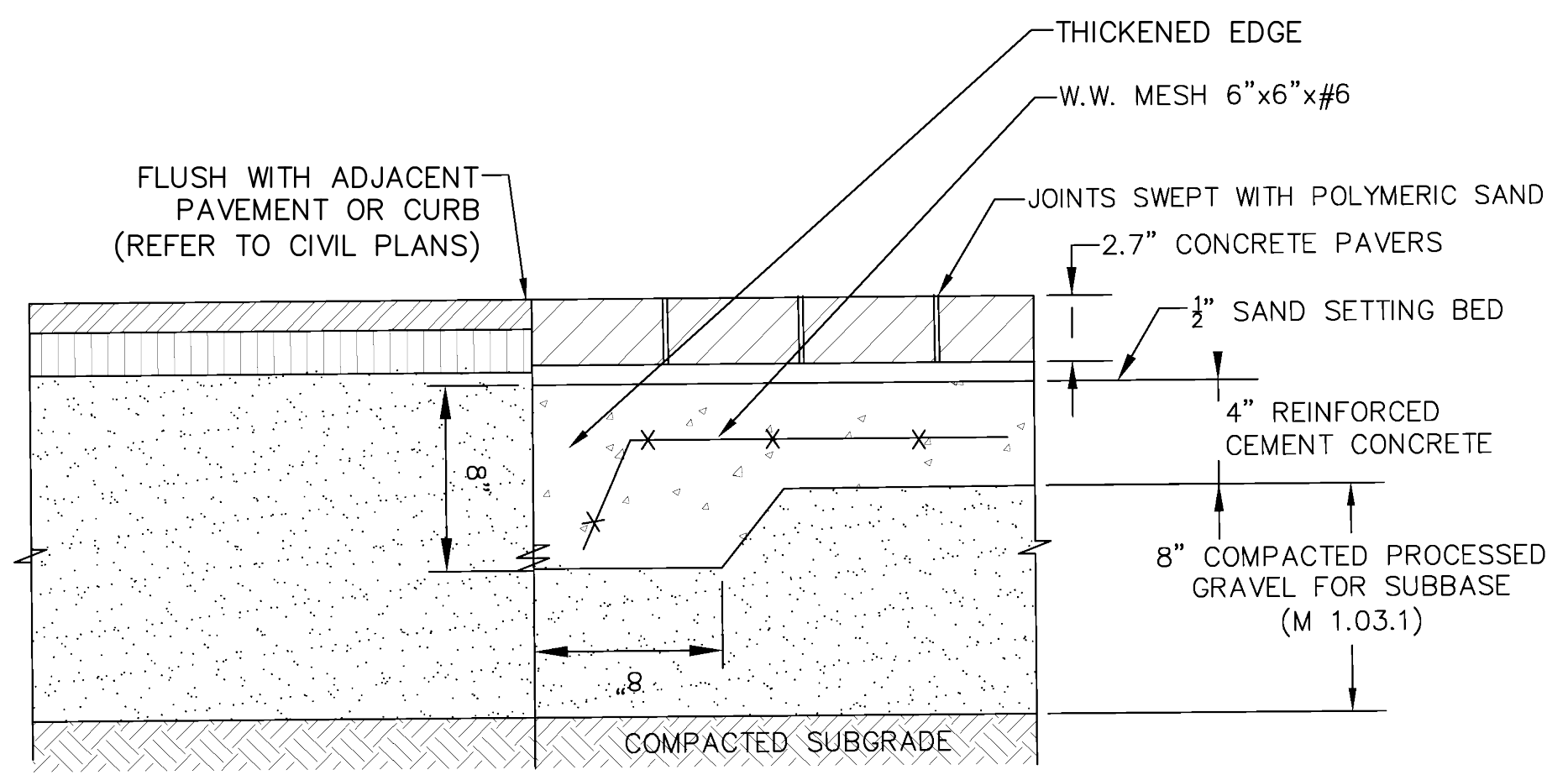
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**PAINTED PAVEMENT MARKINGS**

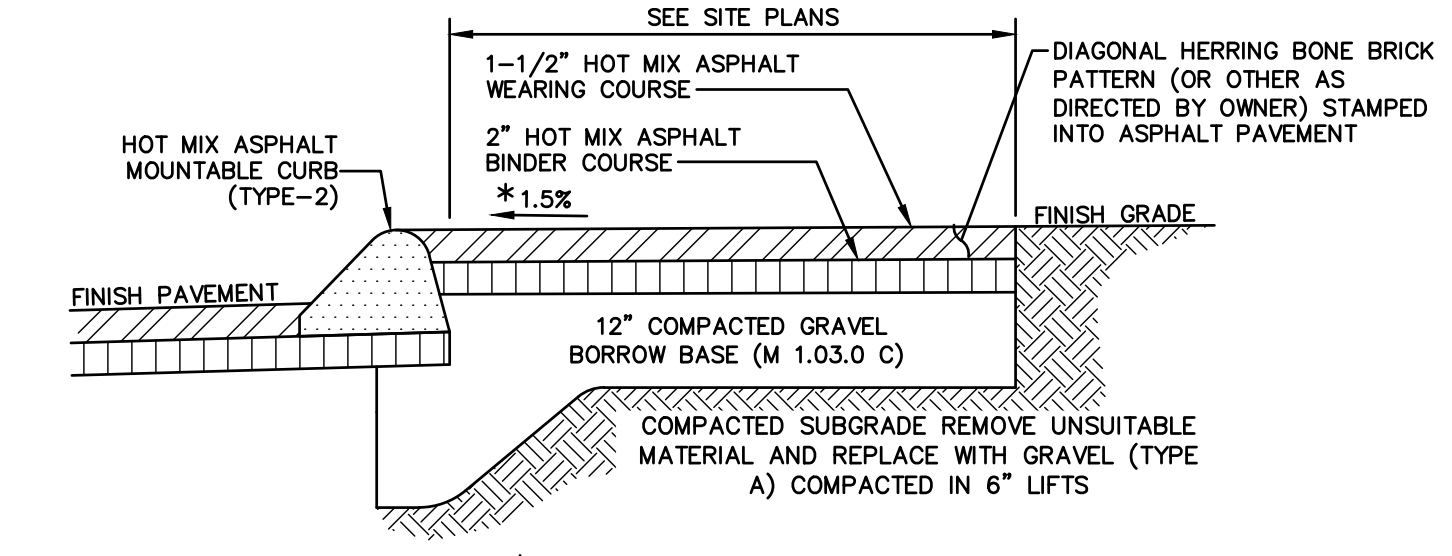
SCALE: NONE

NOTE: PAVEMENT MARKINGS TO BE INSTALLED IN LOCATIONS SHOWN ON THE PLANS



**CONCRETE UNIT PAVERS**

SCALE: NONE



**STAMPED HEAVY DUTY ASPHALT ISLAND**

SCALE: NONE

\*CONSTRUCTION TOLERANCE = 0.5%

SHEET CONTENTS:

CIVIL DETAILS I

PROJECT # 8-3669.00

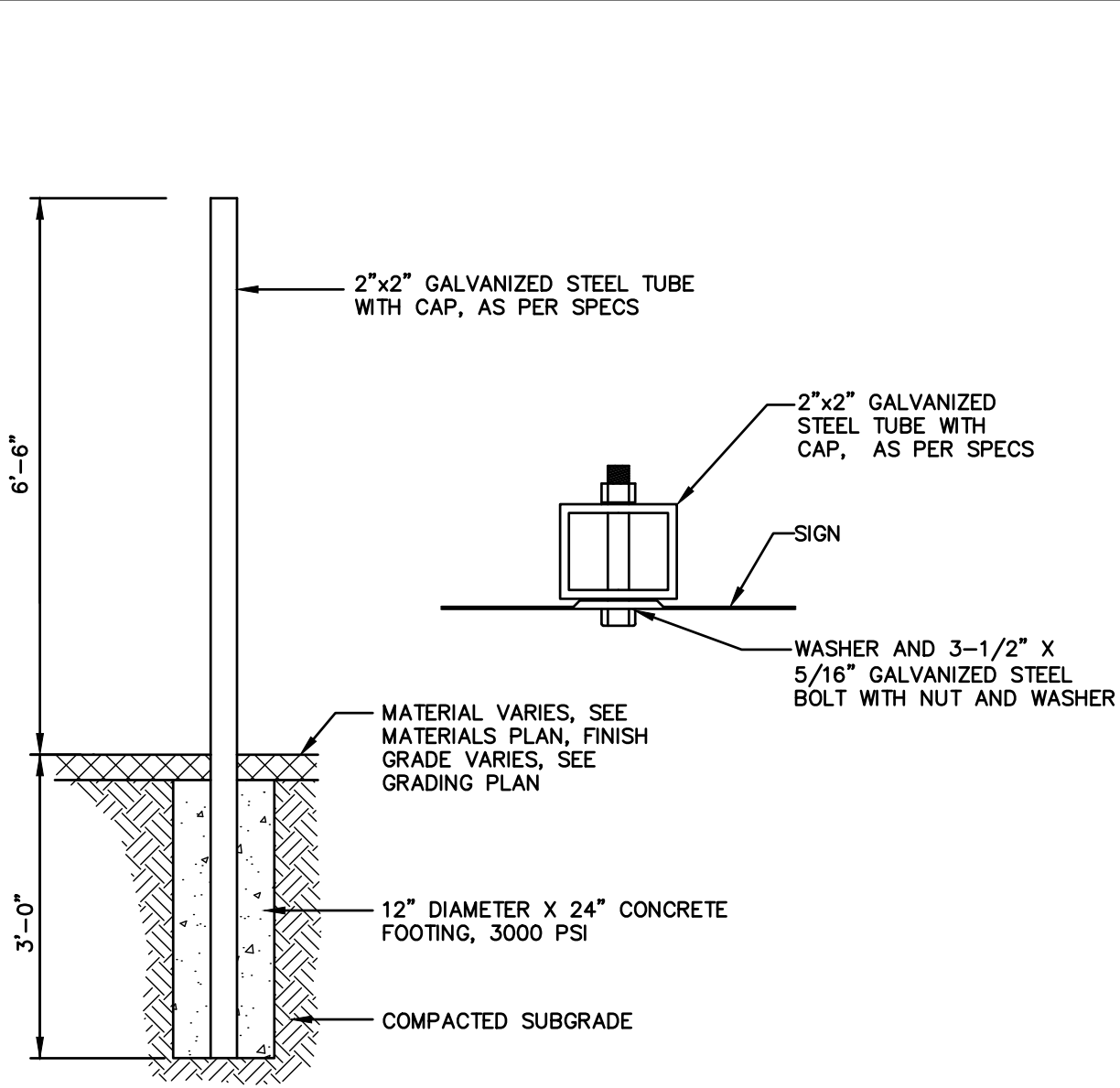
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REVISED DATE:  
REVISD: 02/16/2021

SCALE: NONE

**C-500**

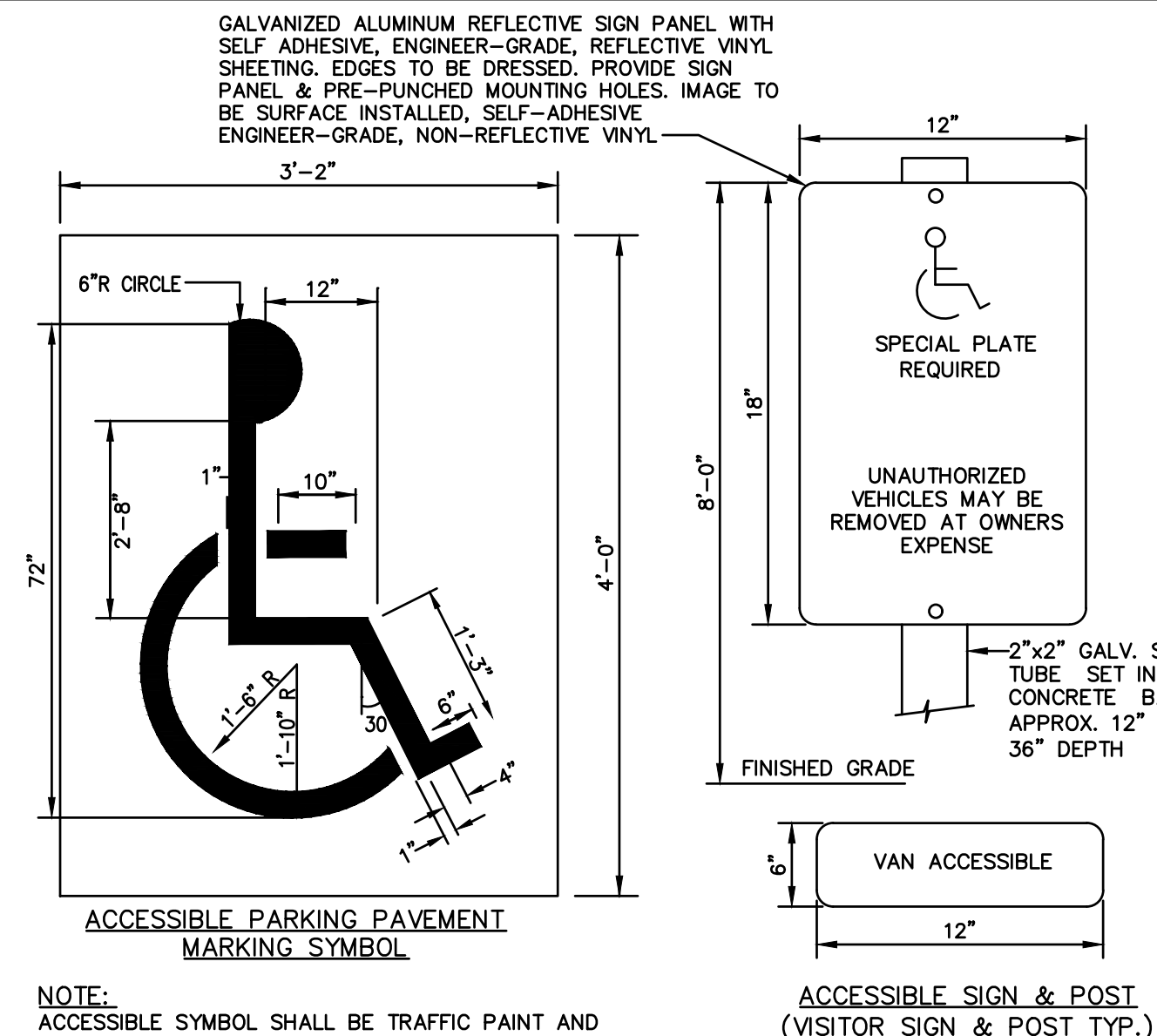
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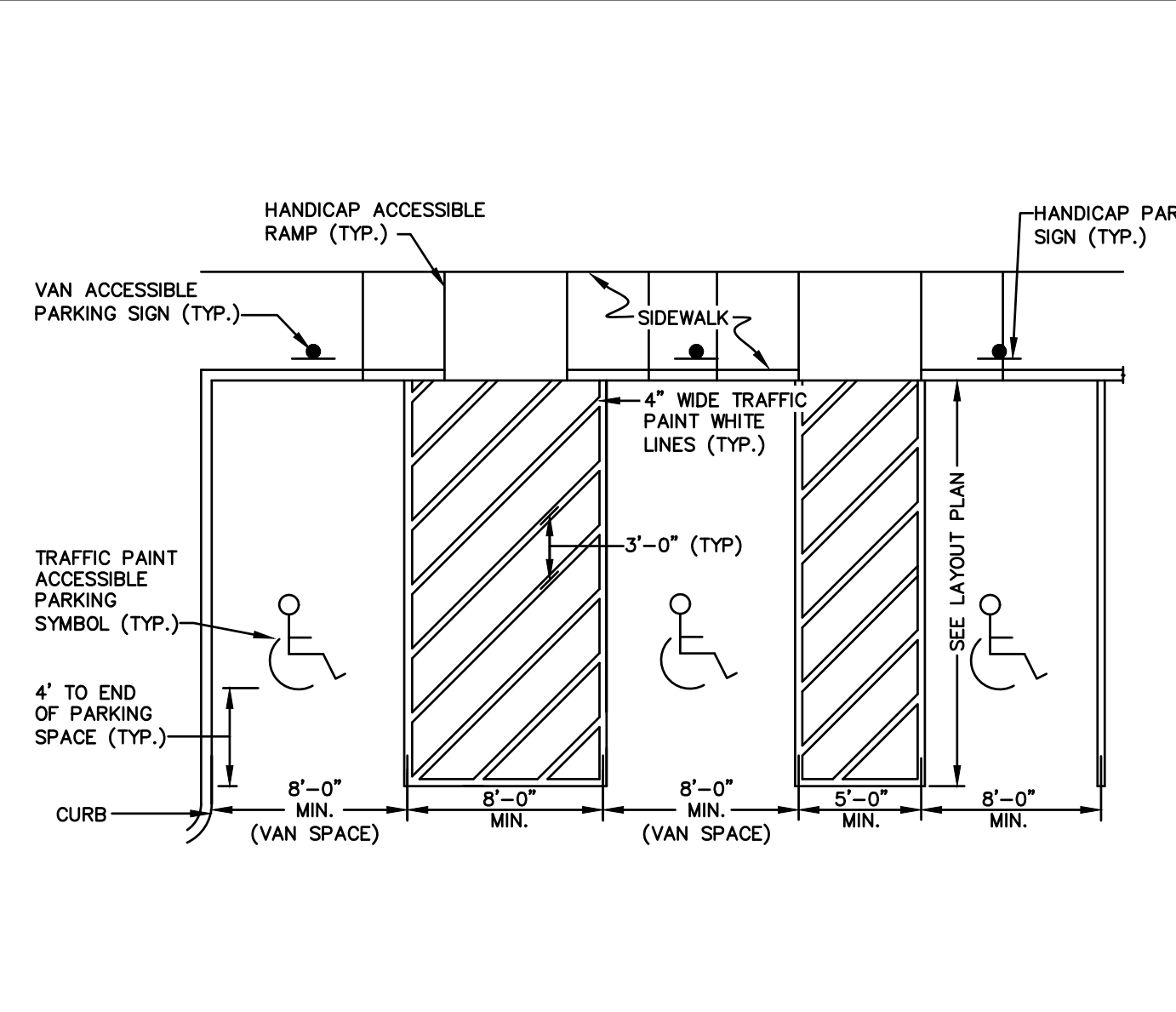
**TYPICAL SIGN SUPPORT**

SCALE: NONE



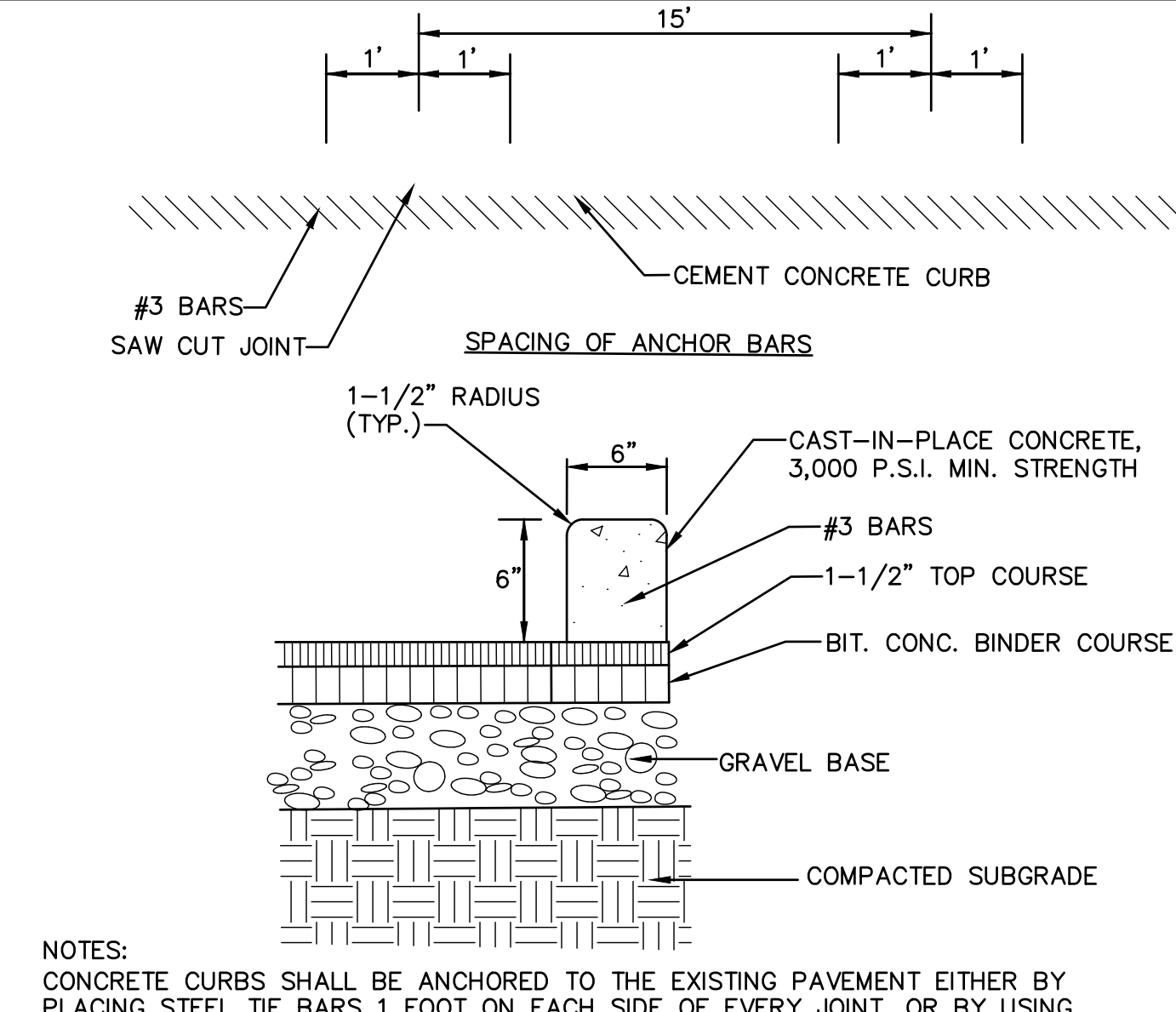
**PAINTED PAVEMENT MARKINGS ACCESSIBLE PARKING SYMBOL & ACCESSIBLE PARKING SIGN**

SCALE: NONE



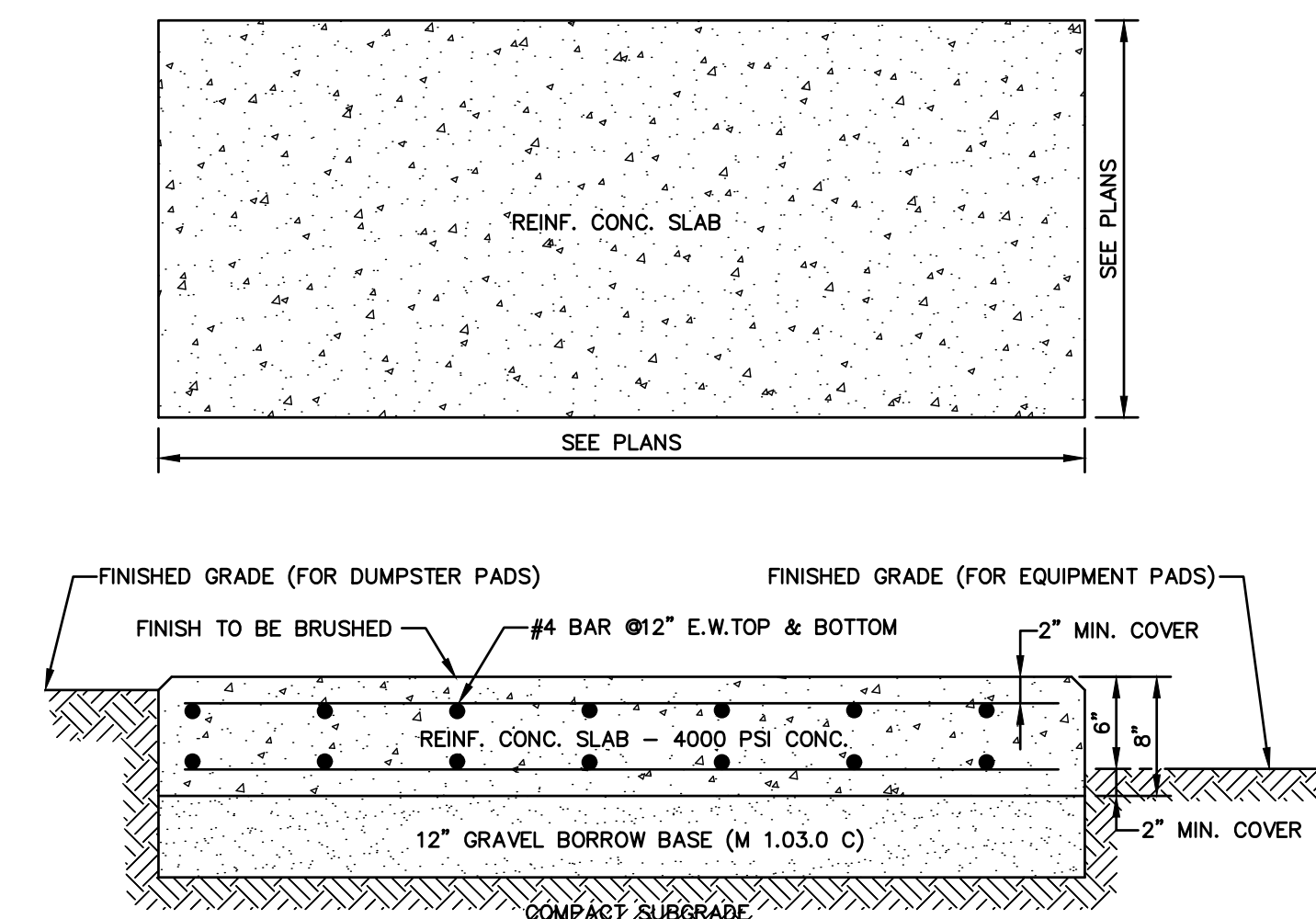
**PAINTED PAVEMENT MARKINGS ACCESSIBLE PARKING SPACE**

SCALE: NONE



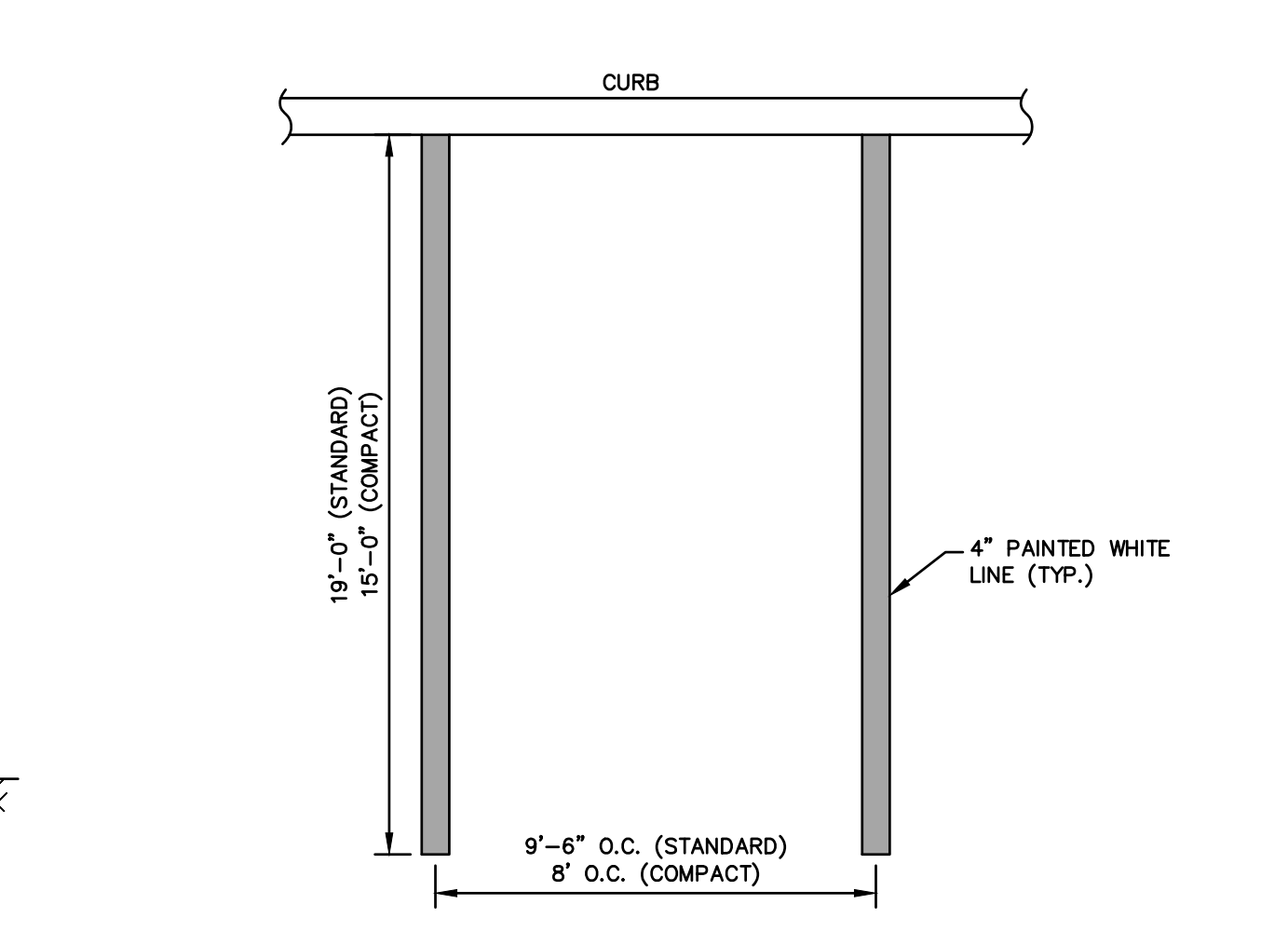
**EXTRUDED CEMENT CONCRETE CURB**

SCALE: NONE



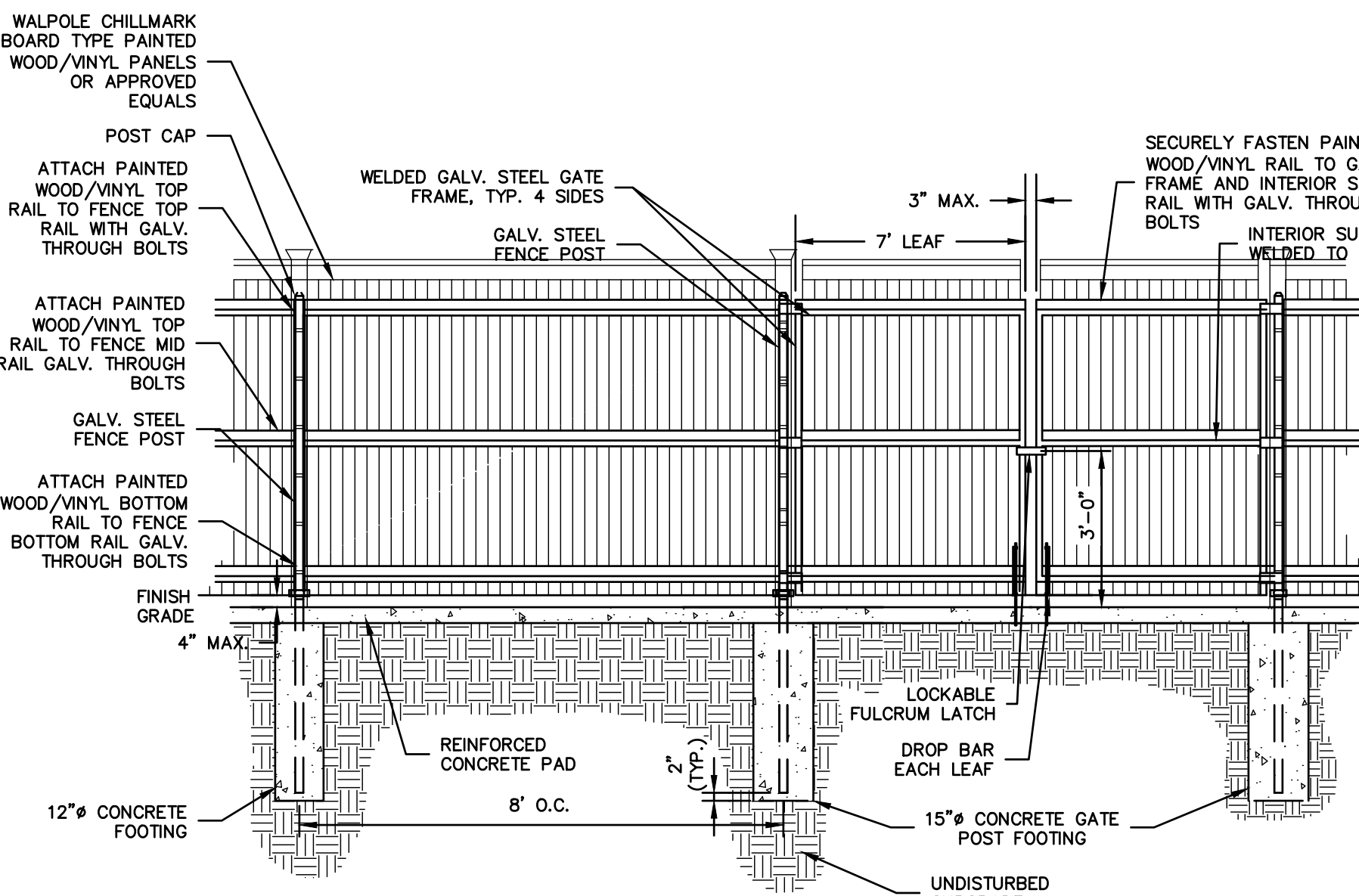
**REINFORCED CONCRETE PAD**

SCALE: NONE



**STANDARD PAINTED PARKING MARKINGS**

SCALE: NONE



**DUMPSTER ENCLOSURE**

SCALE: NONE

FENCE FRAMEWORK SCHEDULE

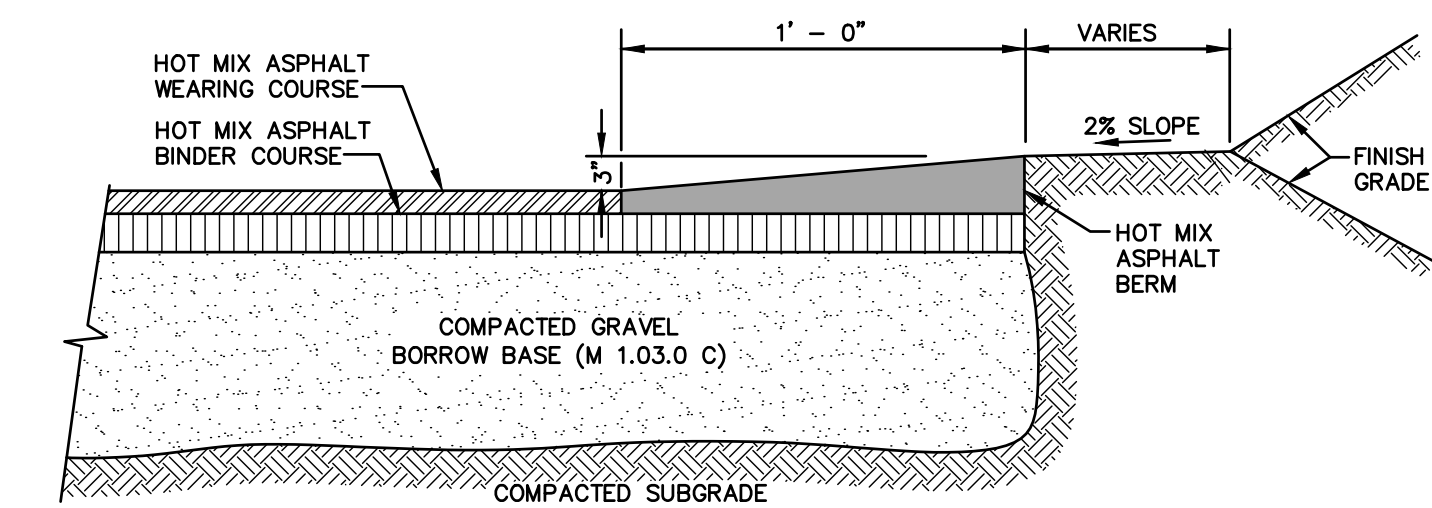
FENCE HEIGHT	UP TO 4'	5' TO 6'	8' TO 10'
FENCE POST	2.375" O.D.	2.875" O.D.	3.5" O.D.
TOP AND BOTTOM RAIL	1.6" O.D.	2.375"	2.375"
MIDDLE RAIL	NONE	2.375"	2.375"
FOOTING	12" DIA.	12" DIA.	15" DIA.

GATE FRAMEWORK SCHEDULE

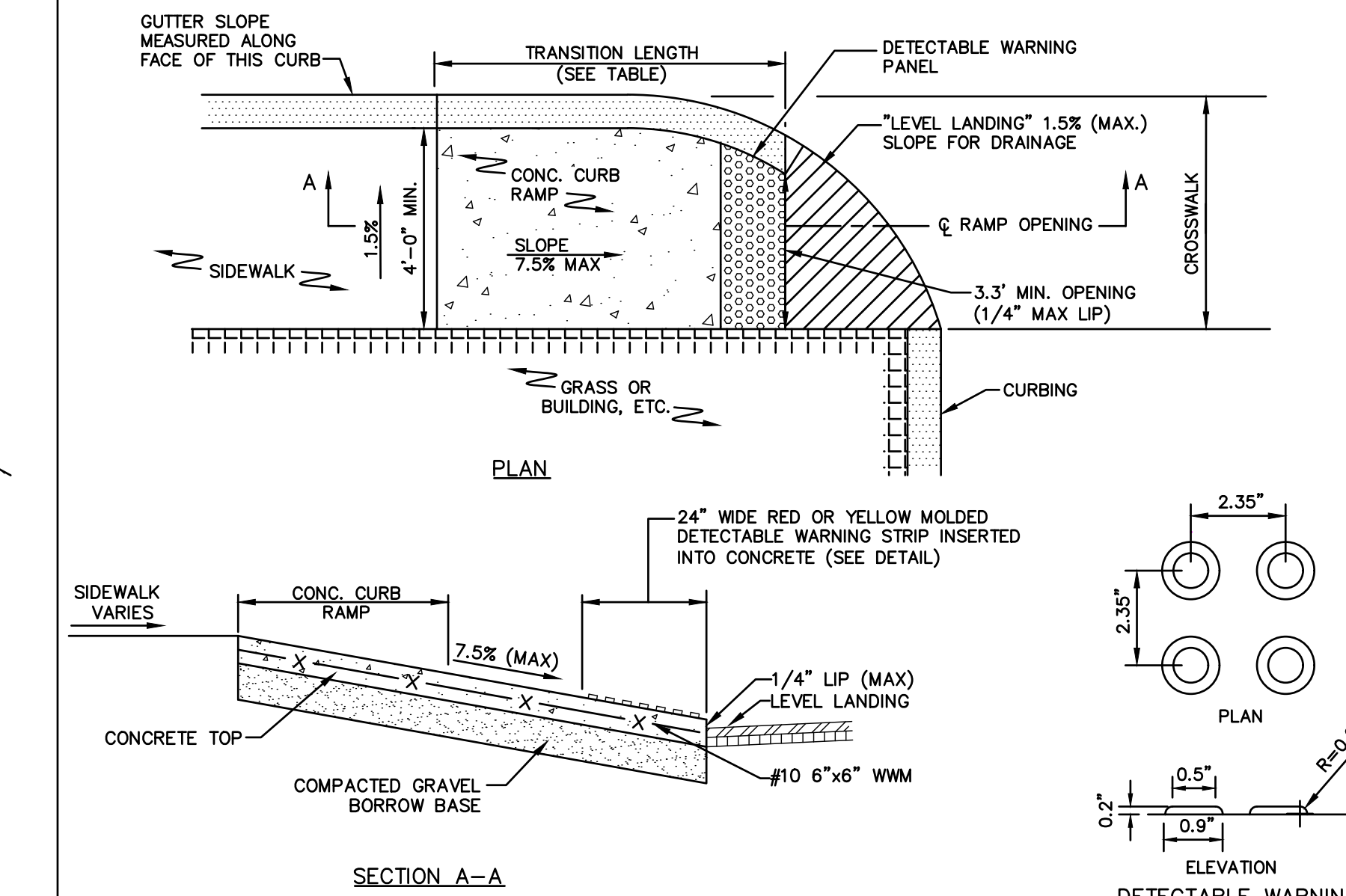
GATE LEAF WIDTH	6'H OR LESS	>6'H - <12'H	12'H OR MORE
GATE POST	2.875" O.D.	4" O.D.	4" O.D.
GATE FRAME (4 SIDES)	2"	2.375"	2.375"
INTERIOR SUPPORT	NONE	2.375"	2.375"
HEAVY DUTY HINGE	3 PER LEAF	3 PER LEAF	4 PER LEAF
FOOTING	12" DIA.	15" DIA.	15" DIA.

- NOTES:
- INSTALL FENCE FOOTINGS PRIOR TO INSTALLATION OF REINFORCED CONCRETE PAD.
  - INSTALL FENCE POSTS 6" FROM THE EDGE OF THE CONCRETE PAD.
  - INSTALL STOCKADE ON OUTSIDE OF POSTS.
  - ALL FENCE POSTS SHALL BE SCHEDULE 80 GALV. STEEL.
  - STEEL POSTS SHALL NOT BE VISIBLE FROM OUTSIDE OF ENCLOSURE.



**CAPE COD BERM**

SCALE: NONE



**ACCESSIBLE CURB RAMP TYPE 'B' - SINGLE DIRECTION WITH LEVEL ENTRANCE**

SCALE: NONE

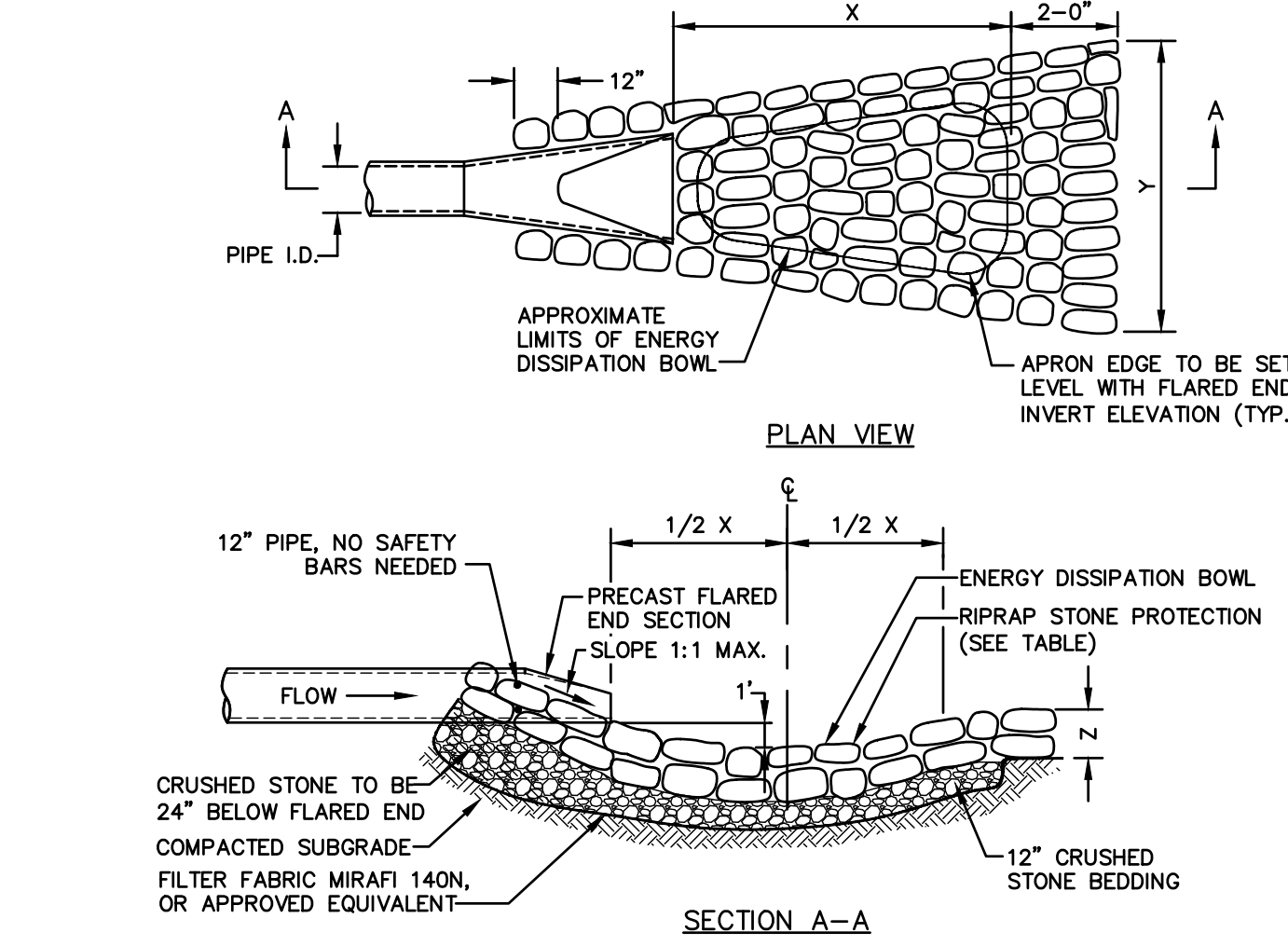
CURB TRANSITION LENGTH FOR WHEELCHAIR RAMPS

ROADWAY PROFILE GRADE (%)	TRANSITION LENGTH ROUNDED TO THE NEAREST 4"
0 OR LOW SIDE	6'-6"
>0 - 1	7'-8"
>1 - 2	9'-0"
>2 - 3	11'-0"
>3 - 4	14'-0"
>4	15'-0" (MAX)

- NOTES:
- SLOPE TOLERANCE FOR RAMP AND SIDEWALK CONSTRUCTION = ± 0.50%
  - THE MAX. ALLOWABLE SLOPE OF ACCESSIBLE ROUTE EXCLUDING CURB RAMPS SHALL BE 5%.
  - THE MAX. ALLOWABLE SLOPE OF ACCESSIBLE ROUTE CURB RAMPS SHALL BE 7.5%.
  - A MINIMUM OF 3 FEET CLEAR SHALL BE MAINTAINED AT ANY PERMANENT OBSTACLE IN ACCESSIBLE ROUTE (I.E. HYDRANTS, UTILITY POLES, TREE WELLS, SIGNS, ETC.).
  - BASE OF RAMP SHALL BE GRADED TO PREVENT PONDING.

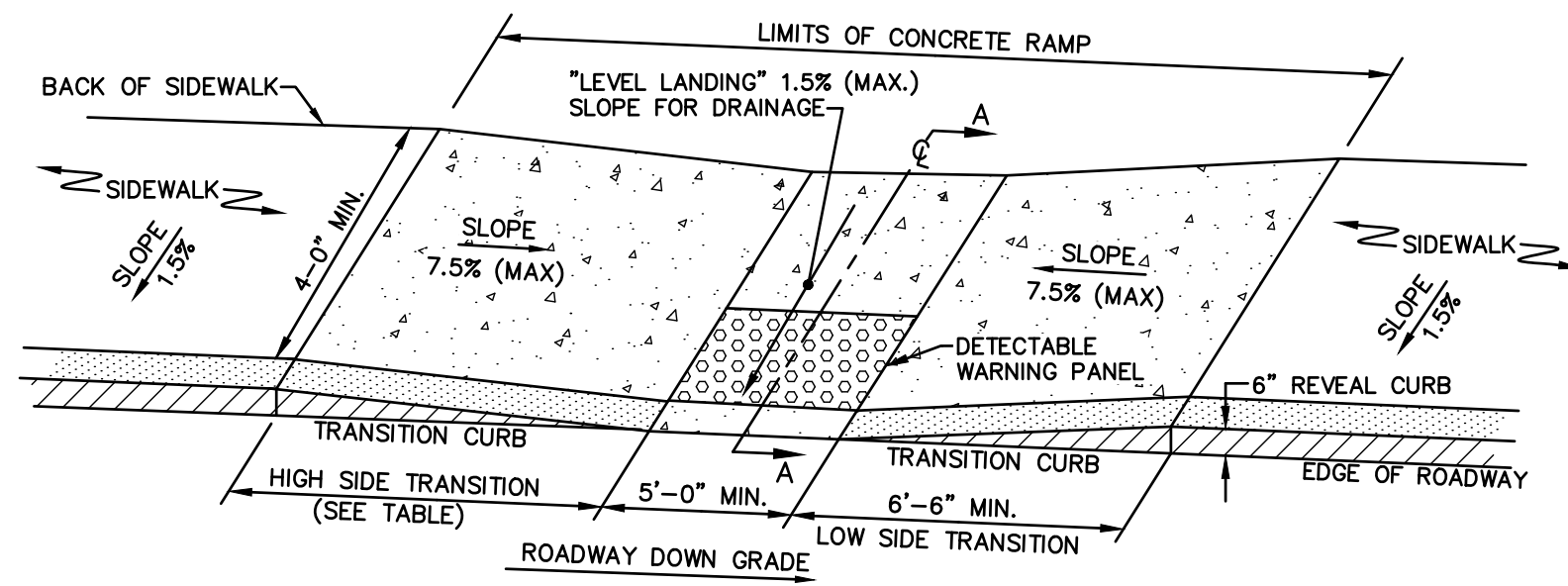
OUTLET NO. X Y Z STONE DIA. (D50)

FES-1	5'	6.3'	16.5"	6"
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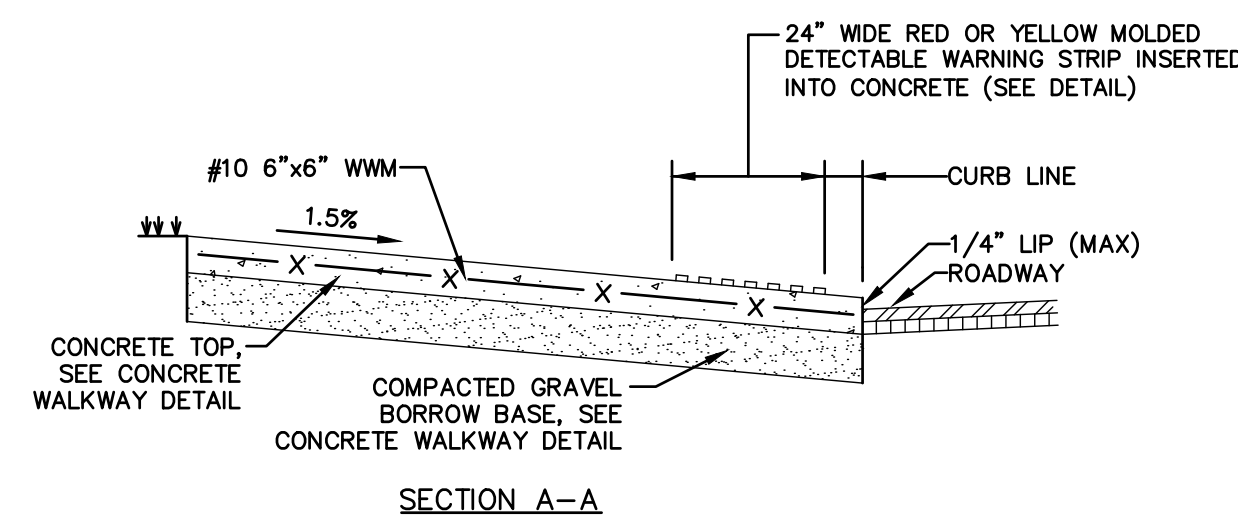


**FLARED END SECTION W/ STONE PROTECTION (DISSIPATION BOWL)**

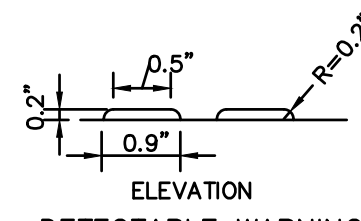
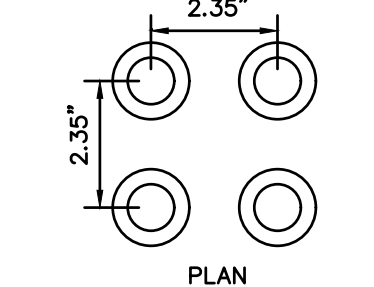
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PLAN



SECTION A-A



ELEVATION

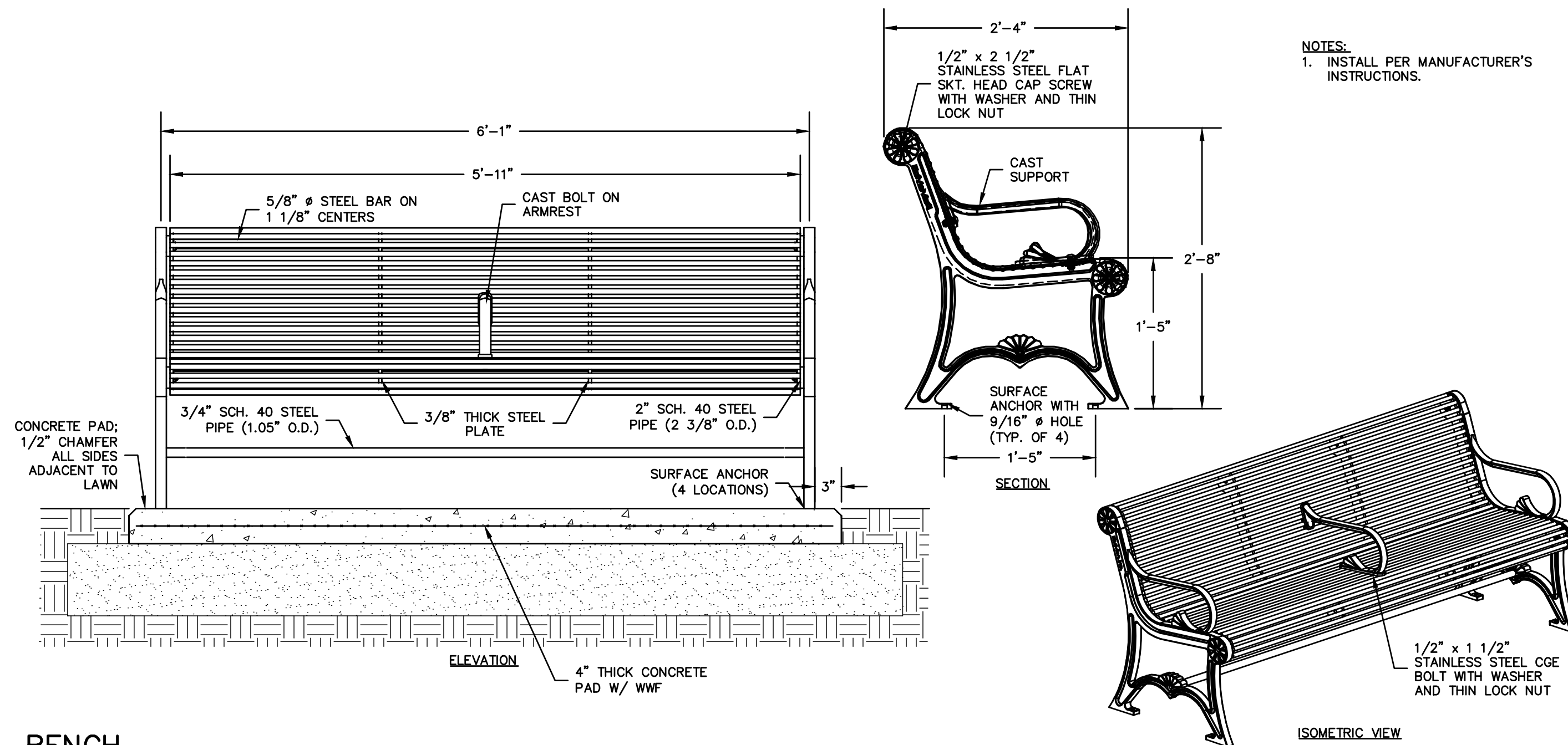
CURB TRANSITION LENGTH FOR WHEELCHAIR RAMPS	
ROADWAY PROFILE GRADE (%)	HIGH SIDE TRANSITION LENGTH ROUNDED TO THE NEAREST 4"
0 OR LOW SIDE	6'-6"
>0 - 1	7'-8"
>1 - 2	9'-0"
>2 - 3	11'-0"
>3 - 4	14'-0"
>4	15'-0" (MAX)

NOTES:

1. SLOPE TOLERANCE FOR RAMP AND SIDEWALK CONSTRUCTION = ± 0.50%
2. THE MAX. ALLOWABLE SLOPE OF ACCESSIBLE ROUTE EXCLUDING CURB RAMPS SHALL BE 5%.
3. THE MAX. ALLOWABLE SLOPE OF ACCESSIBLE ROUTE CURB RAMPS SHALL BE 7.5%.
4. A MINIMUM OF 3 FEET CLEAR SHALL BE MAINTAINED AT ANY PERMANENT OBSTACLE IN ACCESSIBLE ROUTE (I.E. HYDRANTS, UTILITY POLES, TREE WELLS, SIGNS, ETC.).
5. BASE OF RAMP SHALL BE GRADED TO PREVENT PONDING.

ACCESSIBLE CURB RAMP TYPE 'F' - NARROW SIDEWALK

SCALE: NONE

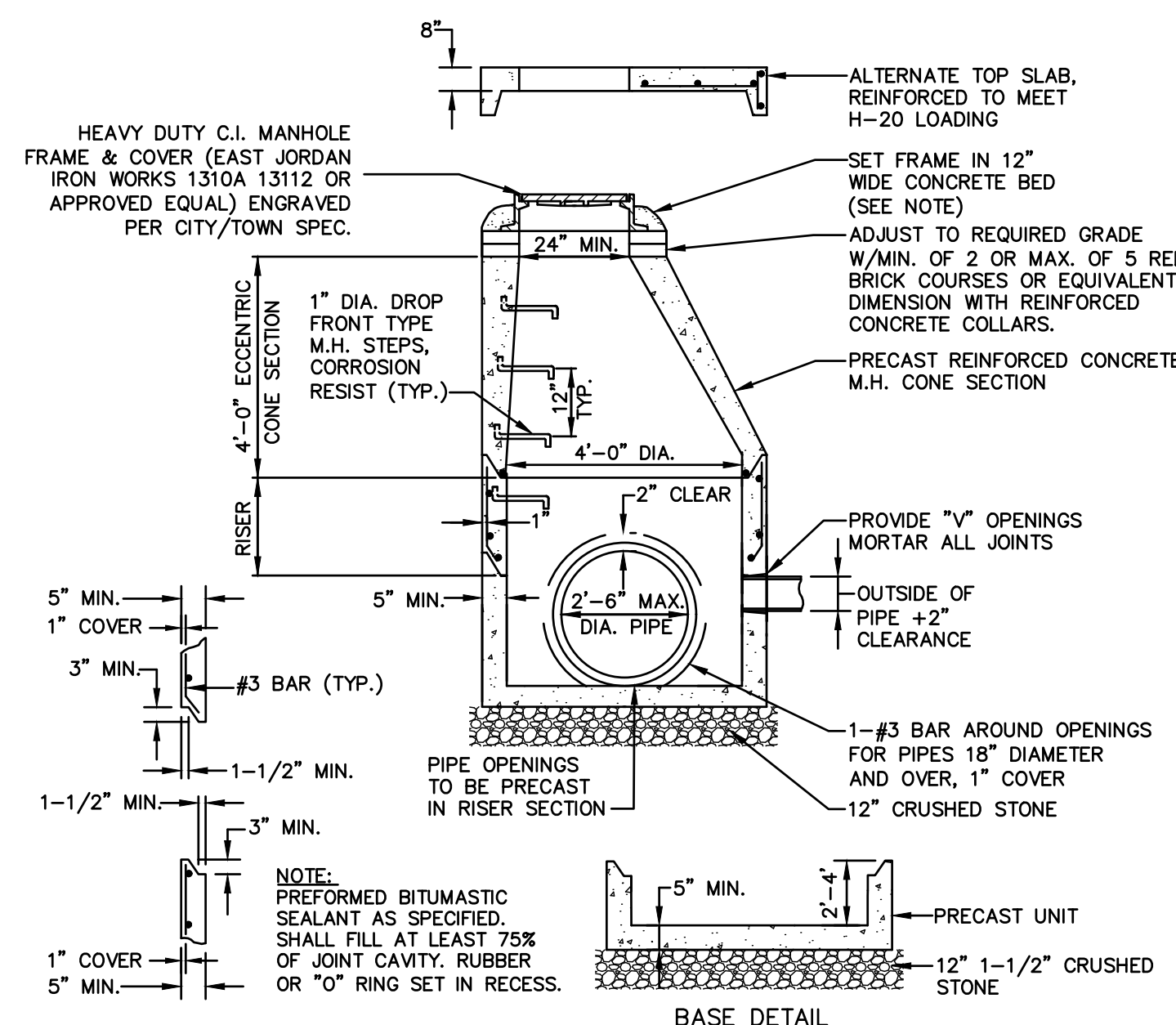


BENCH

SCALE: NONE

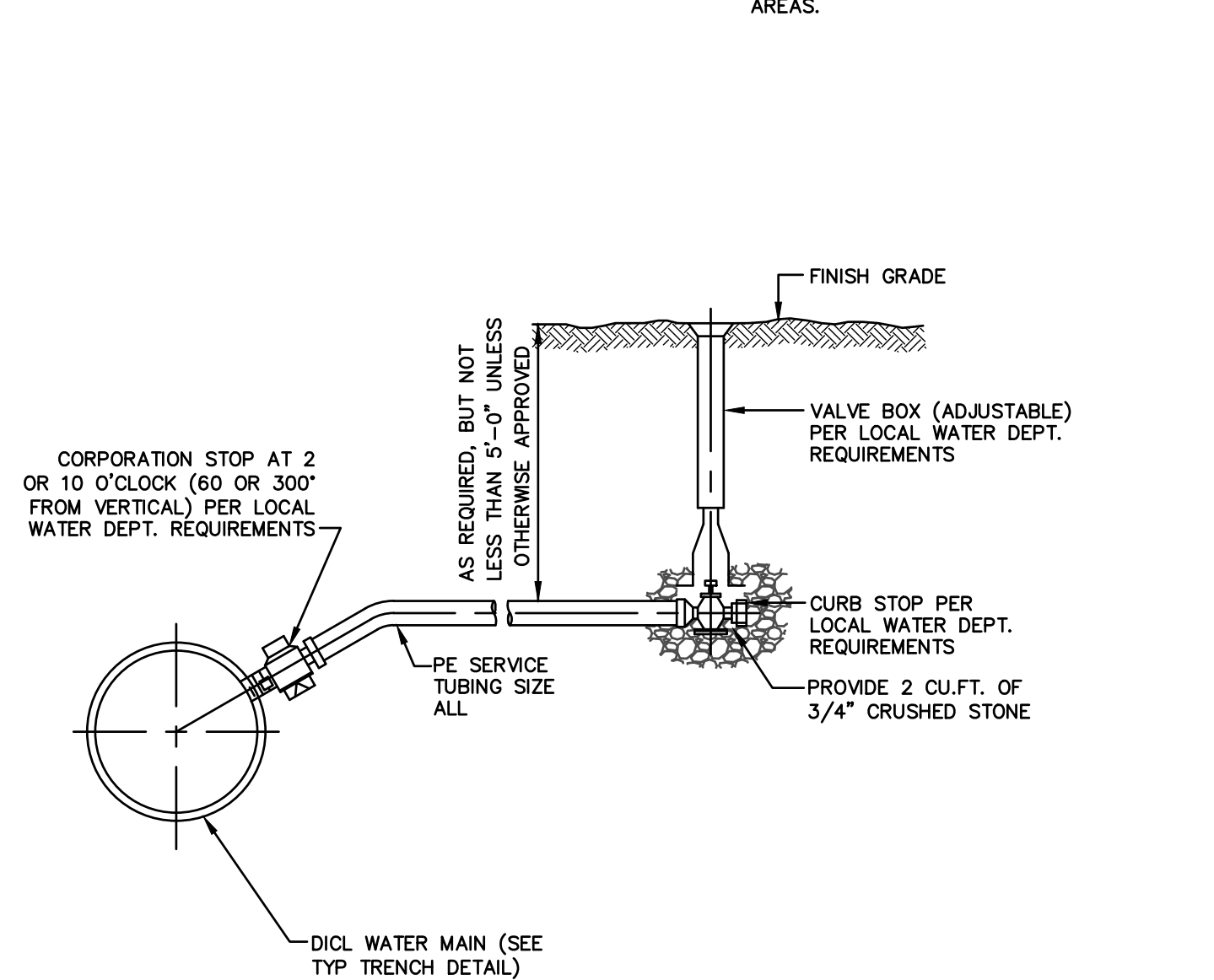
STONE DUST WALK

SCALE: NONE



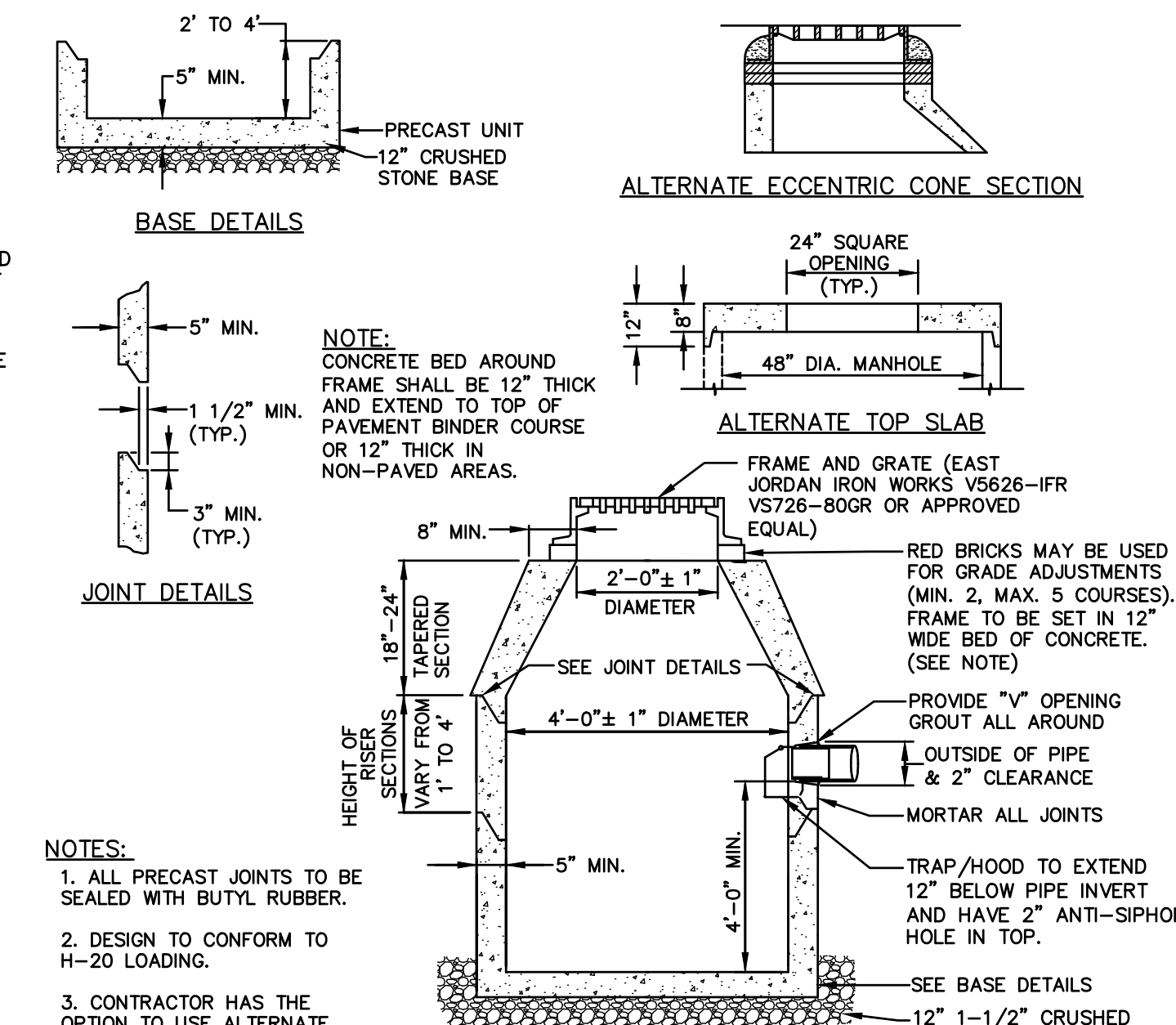
PRECAST CONCRETE DMH

SCALE: NONE



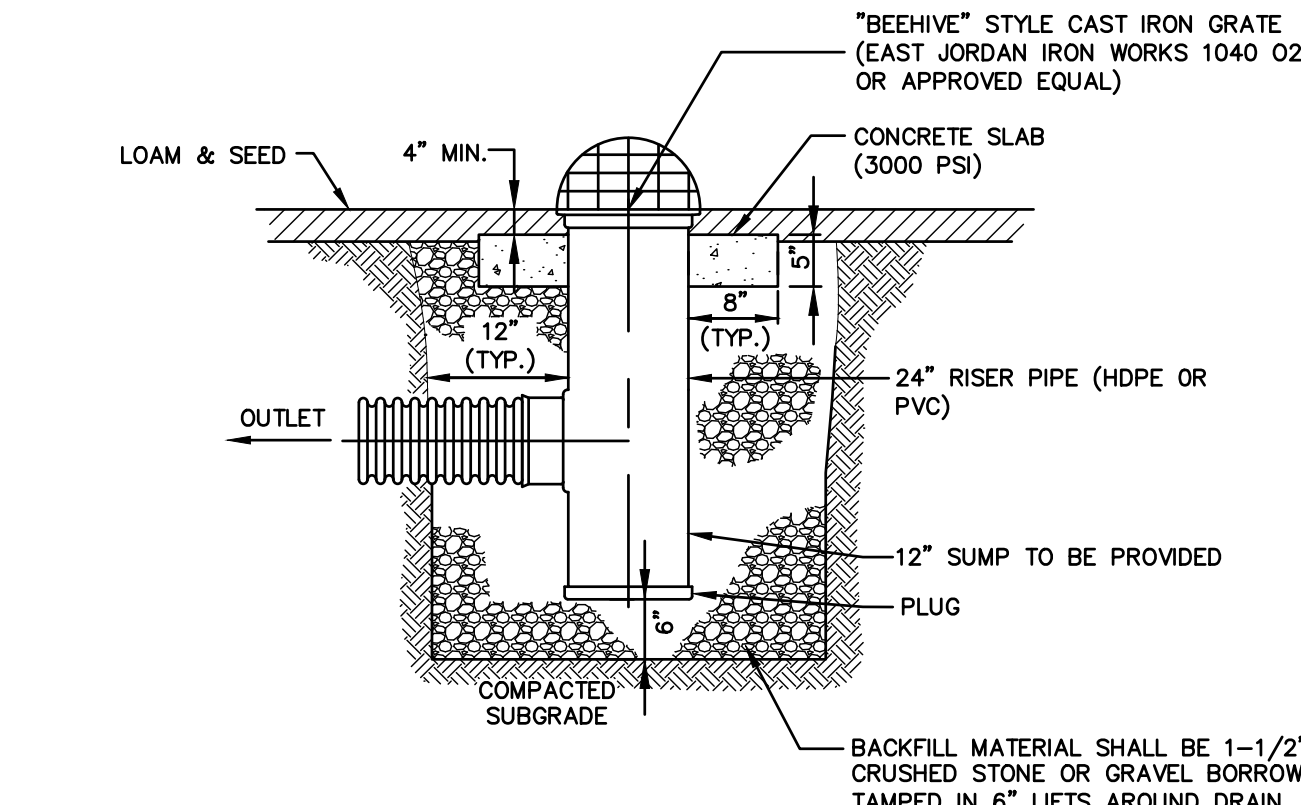
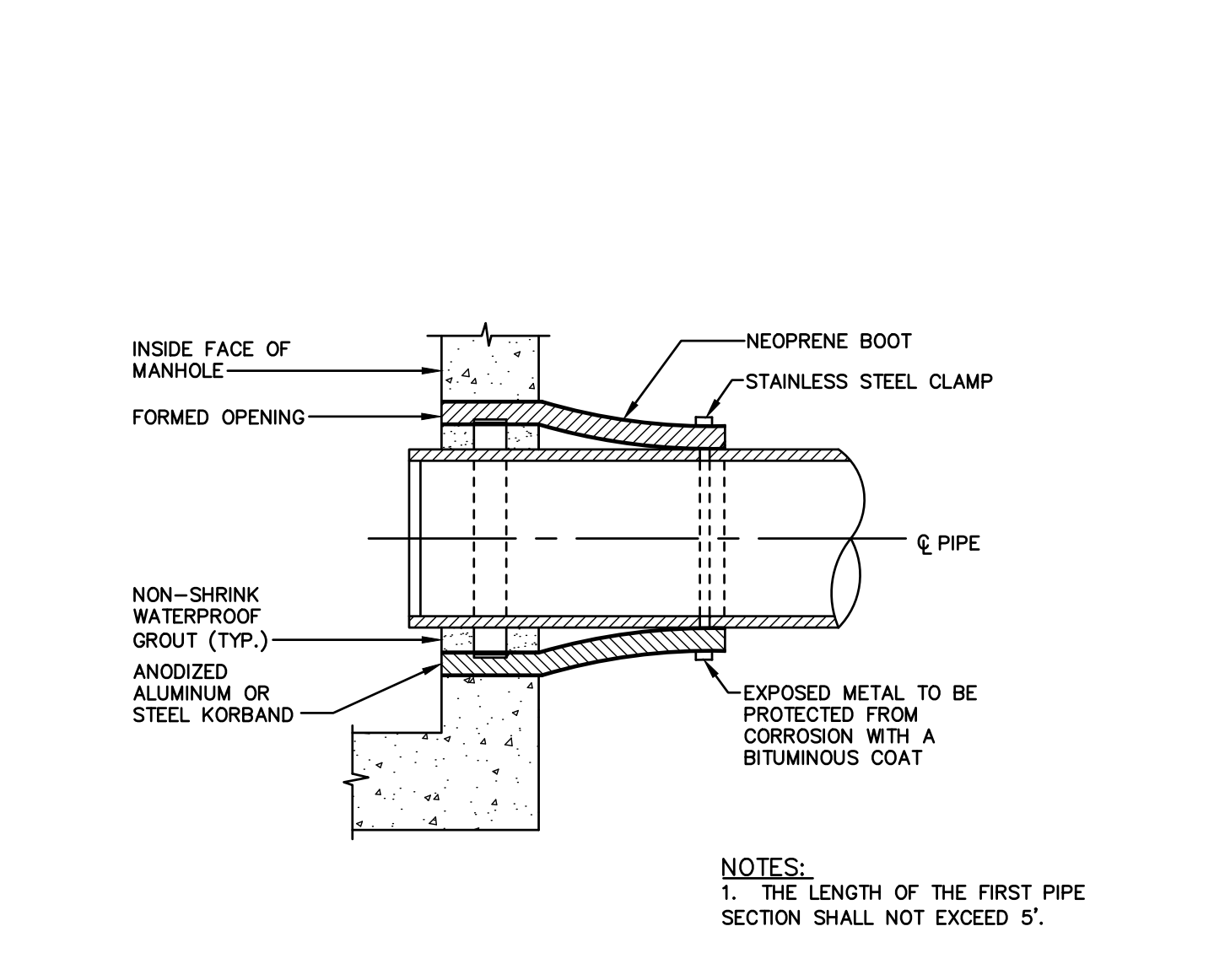
WASTE AND RECYCLING RECEPTACLE

SCALE: NONE



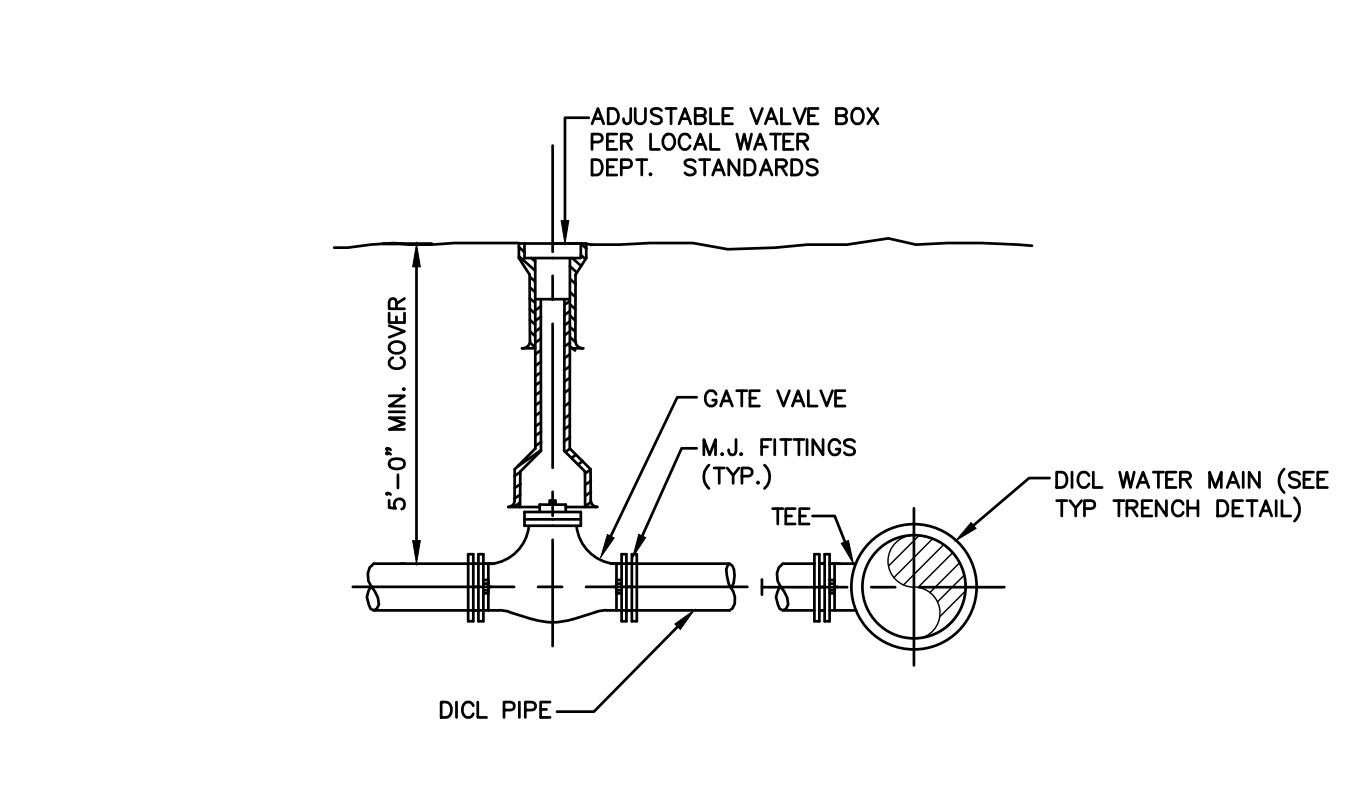
PRECAST CONCRETE CATCH BASIN

SCALE: NONE



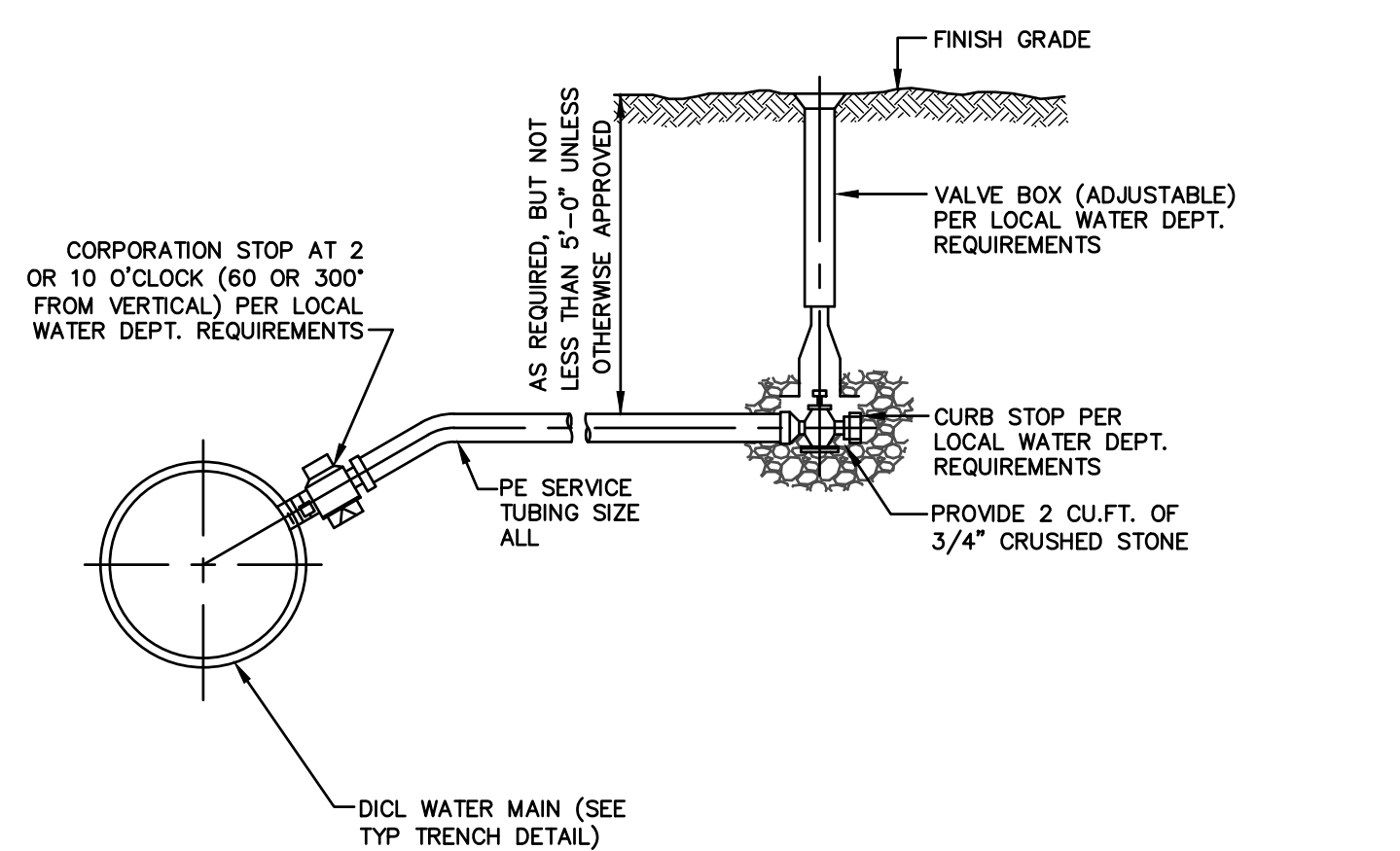
AREA DRAIN (HDPE OR PVC)

SCALE: NONE



WATER SERVICE CONNECTION (4" AND LARGER)

SCALE: NONE

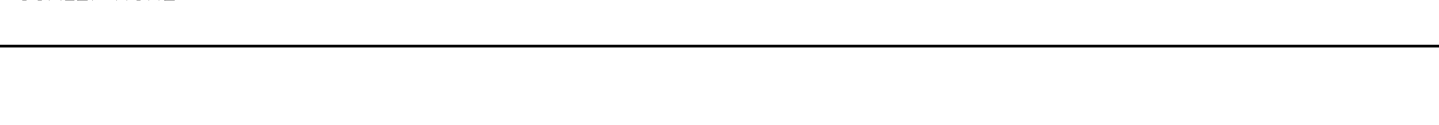


WATER SERVICE CONNECTION (2" AND LESS)

SCALE: NONE

FLEXIBLE PIPE TO MANHOLE CONNECTION (NEOPRENE BOOT)

SCALE: NONE



SHEET CONTENTS:

CIVIL DETAILS III

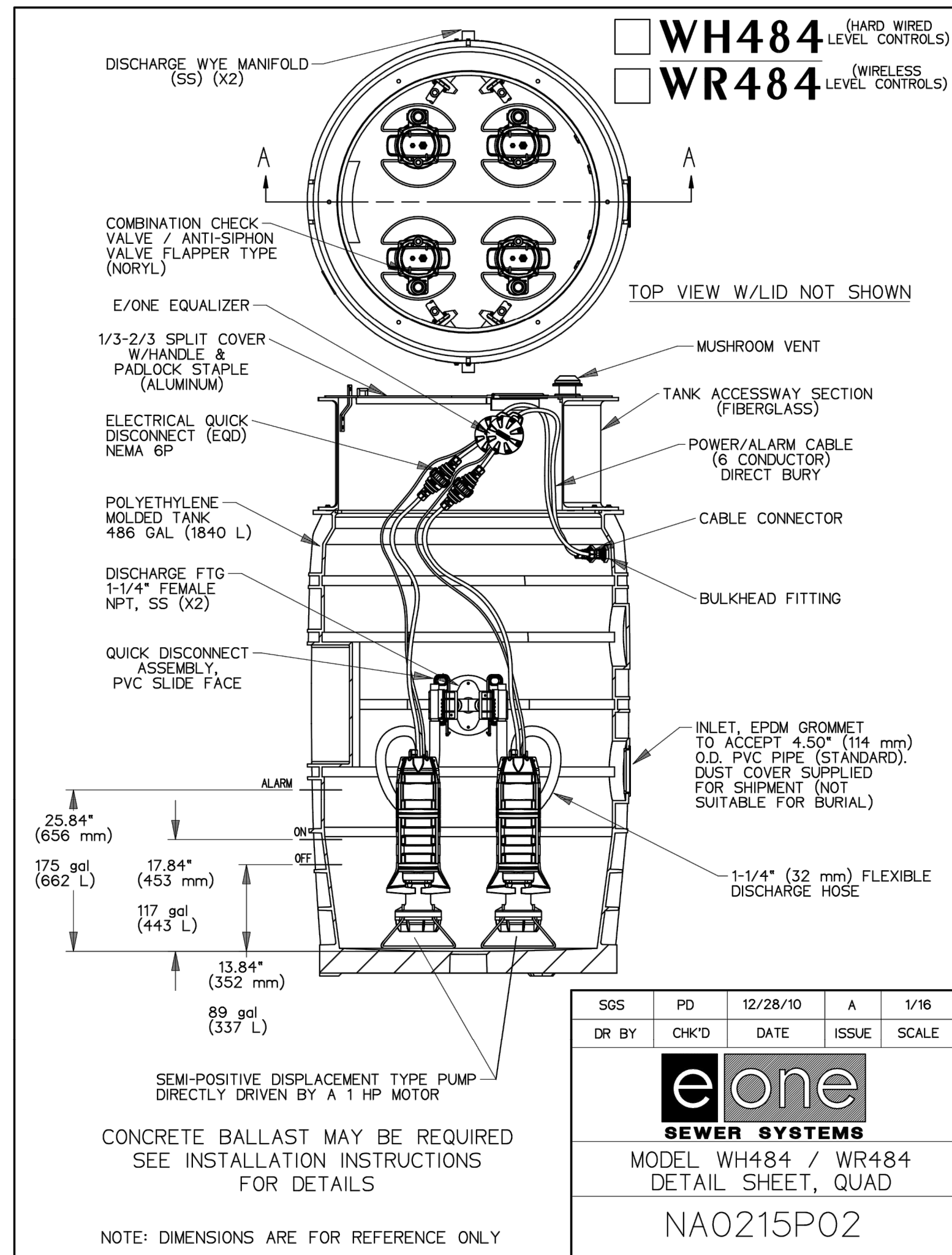
PROJECT # 8-3669.00

DATE: 9/22/2020  
REVISED DATE:  
REVISOR: 02/16/2021

SCALE: NONE

CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

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**E/ONE  
EXTREME**

## WH484/WR484

### General Features

The model WH484 or WR484 grinder pump station is a complete unit that includes: four grinder pumps, check valve, polyethylene tank, controls, and alarm panel. Designed for higher flow applications where local codes dictate higher storage requirements. The lower portion of the tank has a smaller diameter, tapered down to a dish-shaped bottom. The large tank access opening easily accommodates installation of the grinder pumps and equipment.

- Rated for flows of 7000 gpd (26,498 lpd)
- 486 gallons (1802 liters) of capacity
- Standard outdoor heights range from 75 inches to 122 inches

The WH484 is the "hardwired," or "wired," model where a cable connects the motor controls to the level controls through watertight penetrations.

The WR484 is the "radio frequency identification" (RFID), or "wireless," model that uses wireless technology to communicate between the level controls and the motor controls.

### Operational Information

**Motor**  
1 hp, 1,725 rpm, high torque, capacitor start, thermally protected, 120/240V, 60 Hz, 1 phase

### Inlet Connections

4-inch inlet grommet standard for DWV pipe. Other inlet configurations available from the factory.

### Discharge Connections

Pump discharge terminates in 1.25-inch NPT female thread. Can easily be adapted to 1.25-inch PVC pipe or any other material required by local codes.

### Discharge

- 15 gpm at 0 psig (0.95 lps at 0 m)
- 11 gpm at 40 psig (0.69 lps at 28 m)
- 7.8 gpm at 80 psig (0.49 lps at 56 m)

### Accessories

E/One requires that the Uni-Lateral, E/One's own stainless steel check valve, be installed between the grinder pump station and the street main for added protection against backflow.

Alarm panels are available with a variety of options, from basic monitoring to advanced notice of service requirements.

The Remote Sentry is ideal for installations where the alarm panel may be hidden from view.

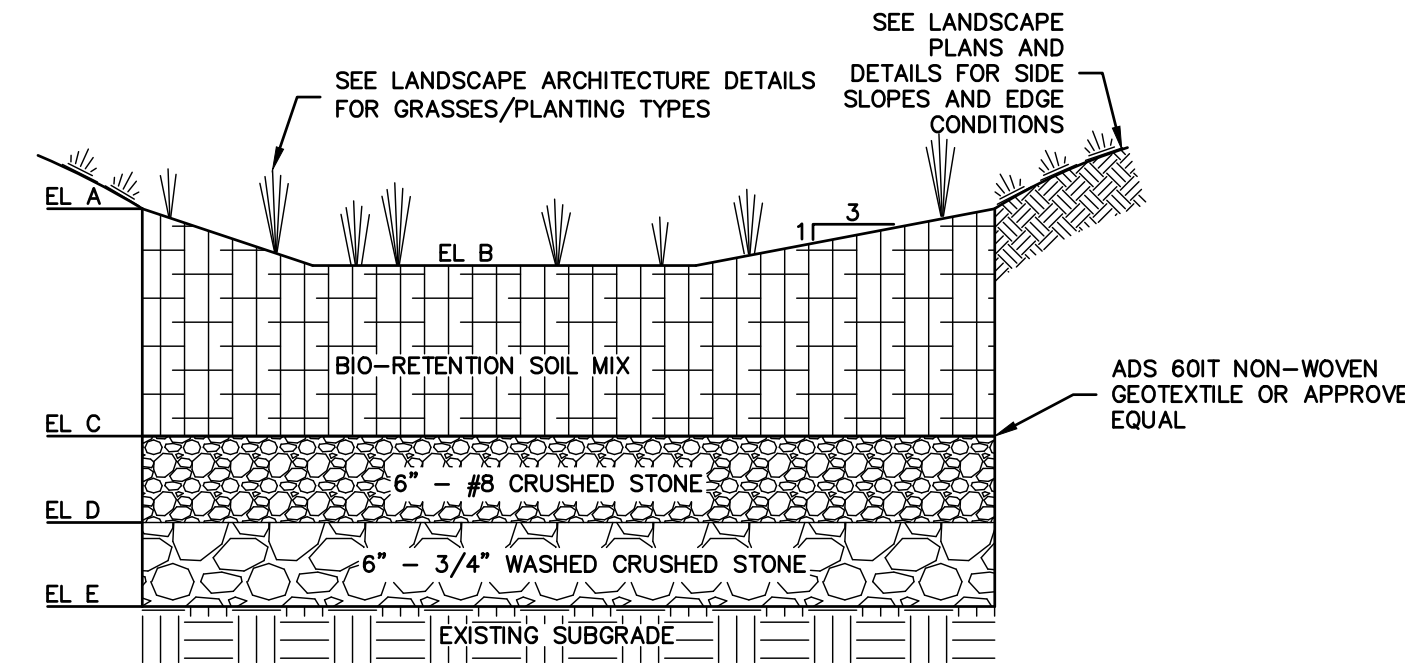
Patent Numbers: 5,752,315  
5,562,254 5,439,180

NA0215P01 Rev C

1. DETAIL IS FOR REFERENCE ONLY. FINAL SIZING IS TO BE DONE BY MANUFACTURER'S REPRESENTATIVE (FR MAHONY, (781) 982-9300).

## TYPICAL eONE GRINDER PUMP SYSTEM

SCALE: NONE



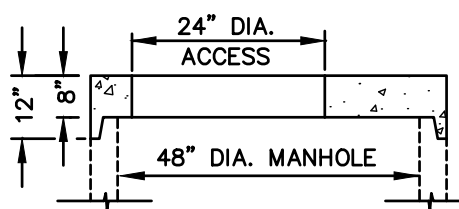
RAIN GARDEN ID	EL A	EL B	EL C	EL D	EL E
1	70.00	65.50	63.50	63.00	62.50

- PLANTING MEDIUM NOTES:**
- PARTICLE SIZE DISTRIBUTION SHALL BE TESTED IN ACCORDANCE WITH ASTM D422.
  - PARTICLE SIZE DISTRIBUTION BY SEPARATES:
    - EXCLUDE ALL MATERIAL THAT DOES NOT PASS A STANDARD #4 SIEVE (LARGER THAN 4.76mm)
    - VERY COARSE SAND/GRAVEL (2.0-4.76mm): 5% MAX. (% BY DRY WEIGHT)
    - SAND (0.42mm-2.0mm): 60-80% (% BY DRY WEIGHT)
    - SILT (0.075mm-0.42mm): 20% MAX. (% BY DRY WEIGHT)
    - CLAY (LESS THAN 0.075mm): 5% MAX. (% BY DRY WEIGHT)
  - ORGANIC MATTER SHALL BE 5-9% BY VOLUME WITH MAXIMUM 500 ppm SOLUBLE SALTS
  - SOIL SHALL HAVE A pH BETWEEN 5.5 AND 7.0
  - CEC OF TOTAL SOIL: MIN. 10 meq/100 MI at pH OF 7.0
  - NO COMPOST SHALL BE INCLUDED IN THE PLANTING MEDIUM

SIEVE #	PERCENT PASSING
4	100
10	95-100
40	15-45
200	10-20
<200 (PAN)	0-5

## BIO-RETENTION AREAS

SCALE: NONE



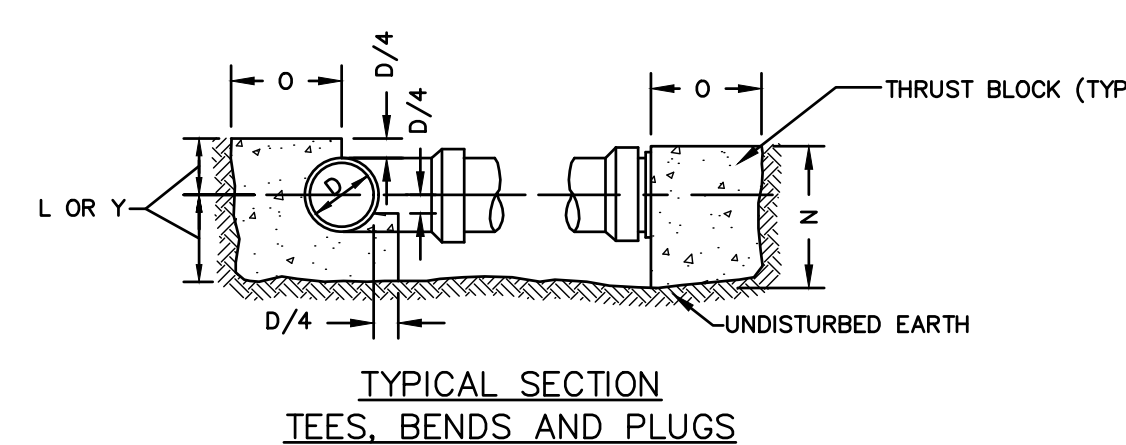
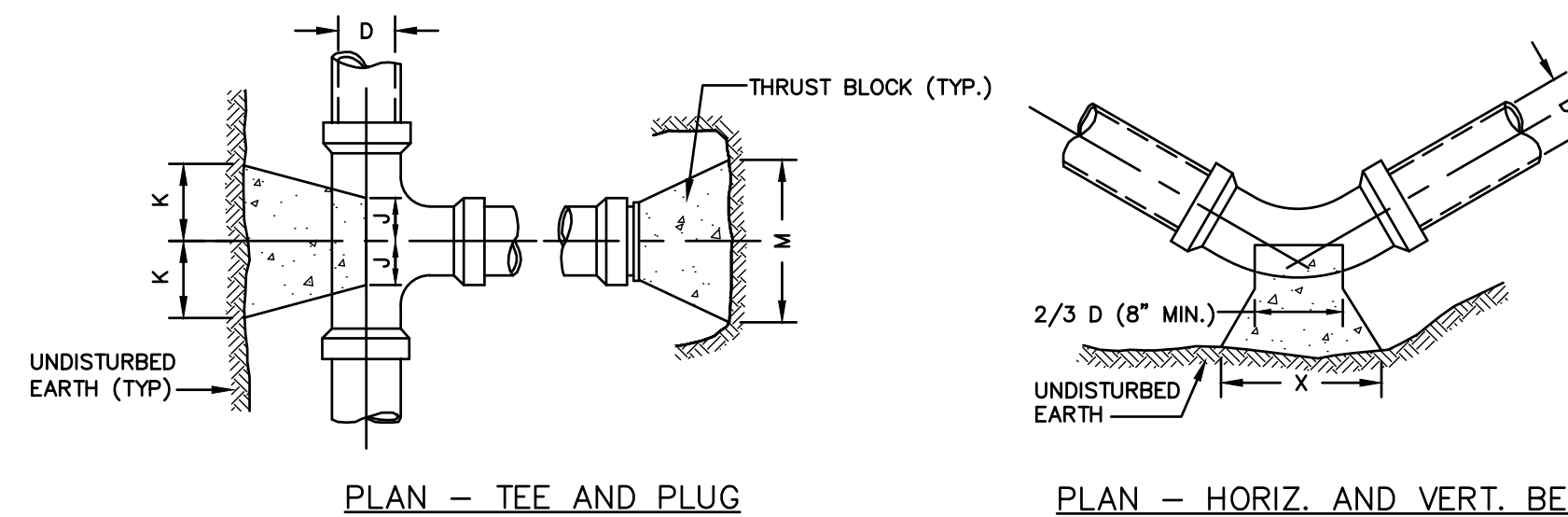
ALTERNATE TOP SLAB  
(STEEL REINFORCED FOR H-20 LOADING)

### NOTES:

- ALL SECTIONS SHALL BE DESIGNED FOR H-20 LOADING.
- COPOLYMER MANHOLE STEPS SHALL BE INSTALLED AT 12" O.C. FOR THE FULL DEPTH OF THE STRUCTURE.
- ALL EXTERIOR SURFACES SHALL BE GIVEN TWO COATS OF BITUMINOUS WATER-PROOFING MATERIAL.
- JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.
- SEWER MANHOLE FRAME AND COVER SHALL BE SET IN 12" THICK CONCRETE BED. ADJUST TO GRADE WITH CLAY BRICK AND MORTAR (2 BRICK COURSES TYP., 5 BRICK COURSES MAX.) SEWER FRAME AND COVER SHALL BE EAST JORDAN IRON WORKS 12872PT 1287APT OR APPROVED EQUAL.)
- 5'-0" DIAMETER FOR ALL MANHOLE DEPTHS GREATER THAN 20 FEET OR WHEN ORDERED BY THE ENGINEER OR FOR INTERIOR DROP CONNECTIONS AND ALL FORCE MAIN CONNECTION MANHOLES.
- 6" MINIMUM WALL THICKNESS AND 7" MINIMUM BASE THICKNESS WITH 5'-0" DIAMETER MANHOLES.
- 4" TO 6" VERTICAL SURFACE AT THE TOP OF THE TRANSITION OR CONE SECTION REQUIRED TO ALLOW AIR-VACUUM TESTING OF THE MANHOLE DURING INSTALLATION.
- MAXIMUM FIRST PIPE LENGTH FROM MANHOLE 3'-0".

## SANITARY SEWER MANHOLE

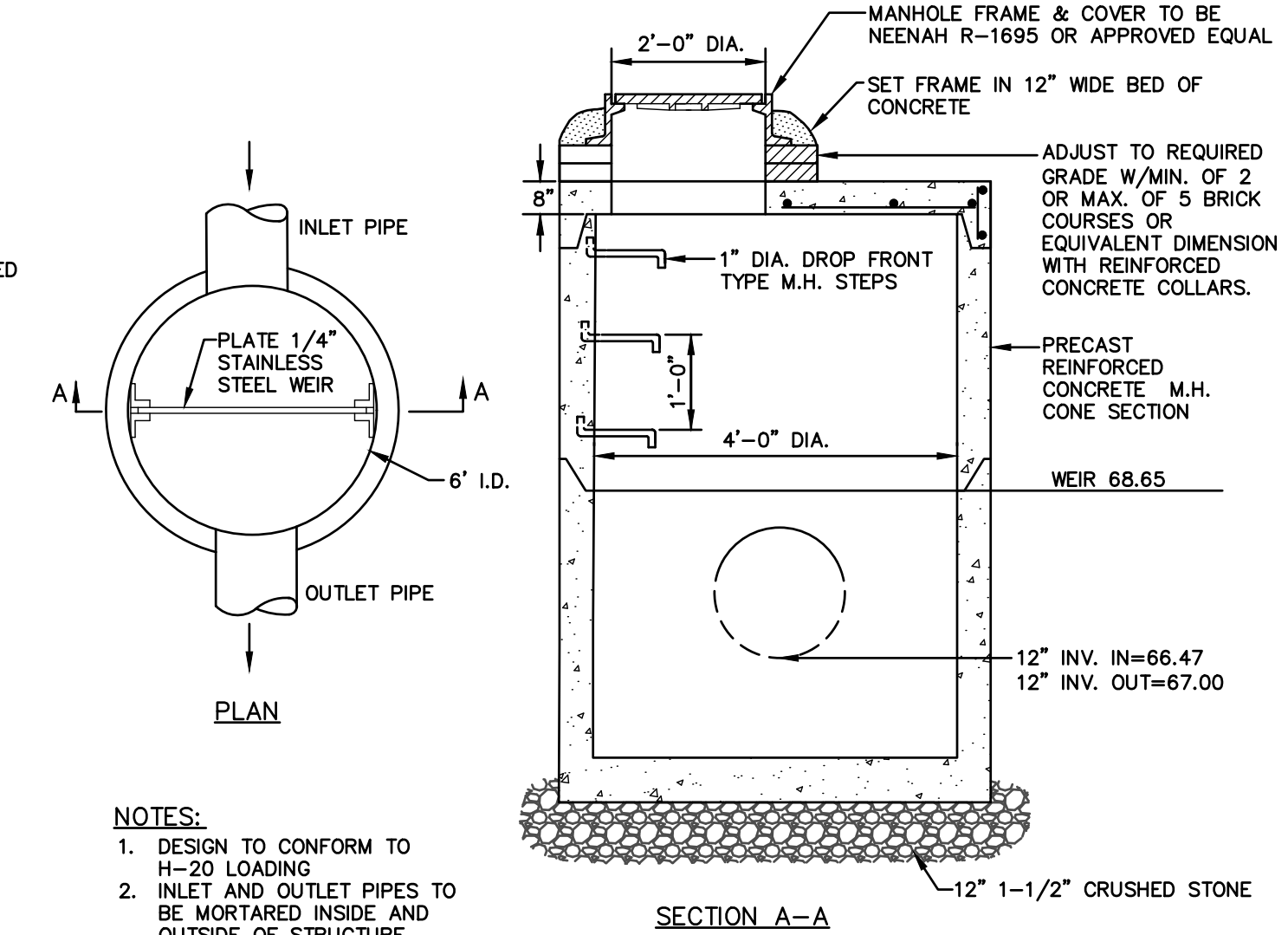
SCALE: NONE



TYPICAL SECTION  
TEES, BENDS AND PLUGS

## CONCRETE THRUST BLOCK FOR PRESSURE PIPE

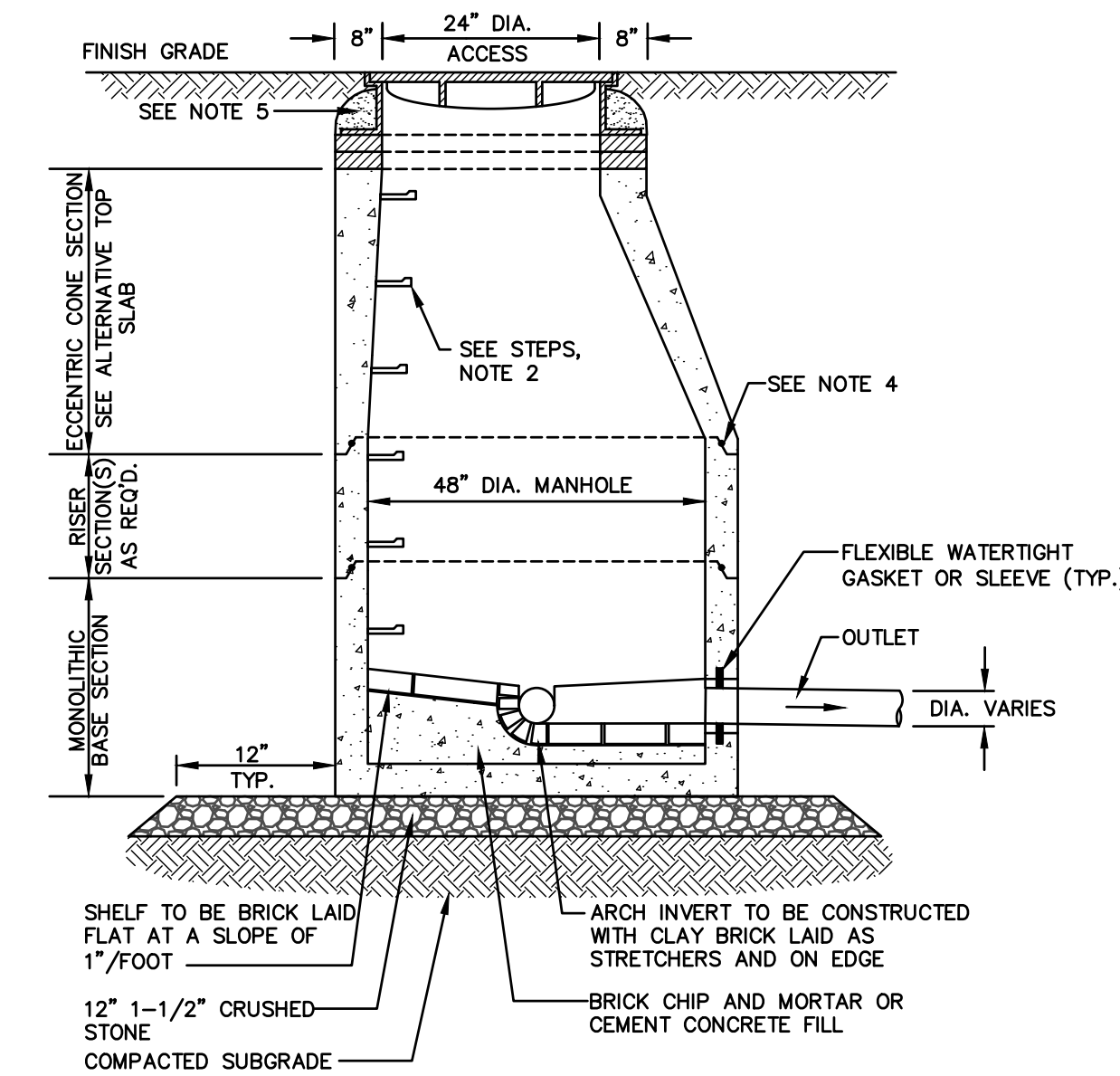
SCALE: NONE



- NOTES:**
- DESIGN TO CONFORM TO H-20 LOADING
  - INLET AND OUTLET PIPES TO BE MORTARED INSIDE AND OUTSIDE OF STRUCTURE.

## OUTLET CONTROL STRUCTURE

SCALE: NONE



### NOTES:

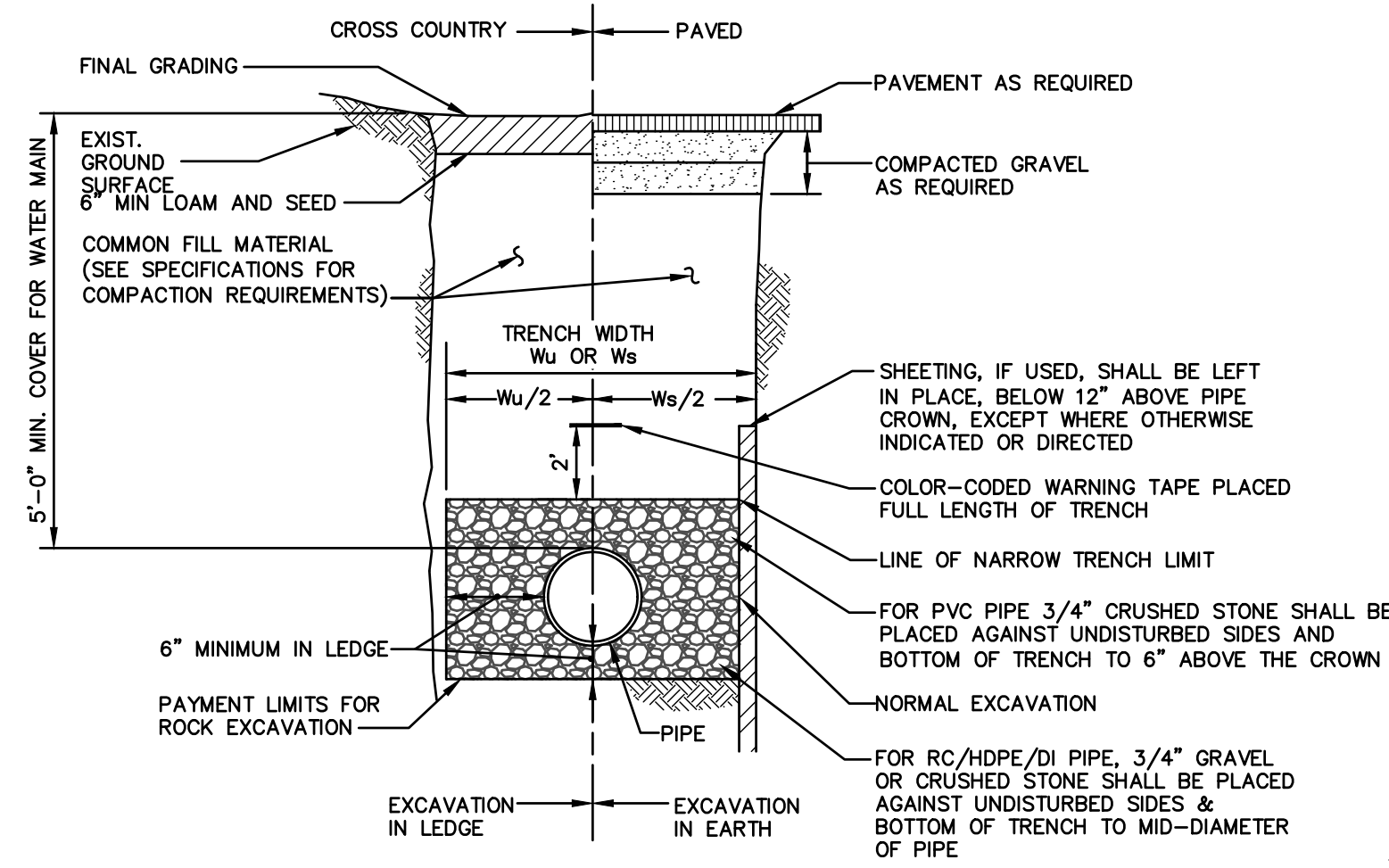
- PROVIDE 3000 psi CONCRETE THRUST BLOCKS AT ALL BENDS, DEAD ENDS, & TEES UNLESS OTHERWISE DIRECTED. CONCRETE FOR ALL THRUST BLOCKS TO BE PLACED AGAINST FIRM, UNDISTURBED SOIL. PROVIDE APPROVED ANCHOR HARNESS RODS & SOCKET CLAMPS AS SPECIFIED & IN ACCORDANCE WITH PIPE MANUFACTURERS RECOMMENDATIONS WHERE SOIL HAS BEEN DISTURBED OR THRUST BLOCKS CANNOT BE USED, AS DIRECTED BY THE ENGINEER.
- ALL SOCKET CLAMP METAL SHALL BE COATED WITH BLACK ASPHALTUM OR OTHER WATER DEPARTMENT APPROVED COATINGS.
- CONCRETE THRUST BLOCKS POURED BEHIND 3-WAY TEE & HYDRANT SHOE TO BE USED WITH SOCKET CLAMPS.
- NO CONCRETE SHALL COVER PIPE JOINTS, FITTING JOINTS, BOLTS OR HYDRANT DRAINS.
- ALL WATER MAIN BENDS, DEAD ENDS, AND TEES SHALL HAVE MECHANICAL JOINTS WITH RETAINER GLANDS.
- A MINIMUM OF ONE (1) PIPE TO PIPE JOINT BEFORE AND AFTER ALL WATER MAIN FITTINGS SHALL BE MECHANICALLY RESTRAINED.

SIZE OF BRANCH	J	K	L	M	N	O
4" THRU 8"	10"	10"	1'-0"	2'-0"	1'-6"	10"
10" THRU 16"	1'-0"	1'-6"	1'-8"	3'-10"	2'-10"	1'-8"
24"	1'-4"	2'-0"	2'-6"	5'-0"	3'-6"	1'-8"

TEES AND PLUGS

	90 & 45 BENDS	22 1/2 & 11 1/4
D	4" TO 8"	10" TO 16"
X	1'-8"	3'-4"
Y	1'-2"	1'-8"

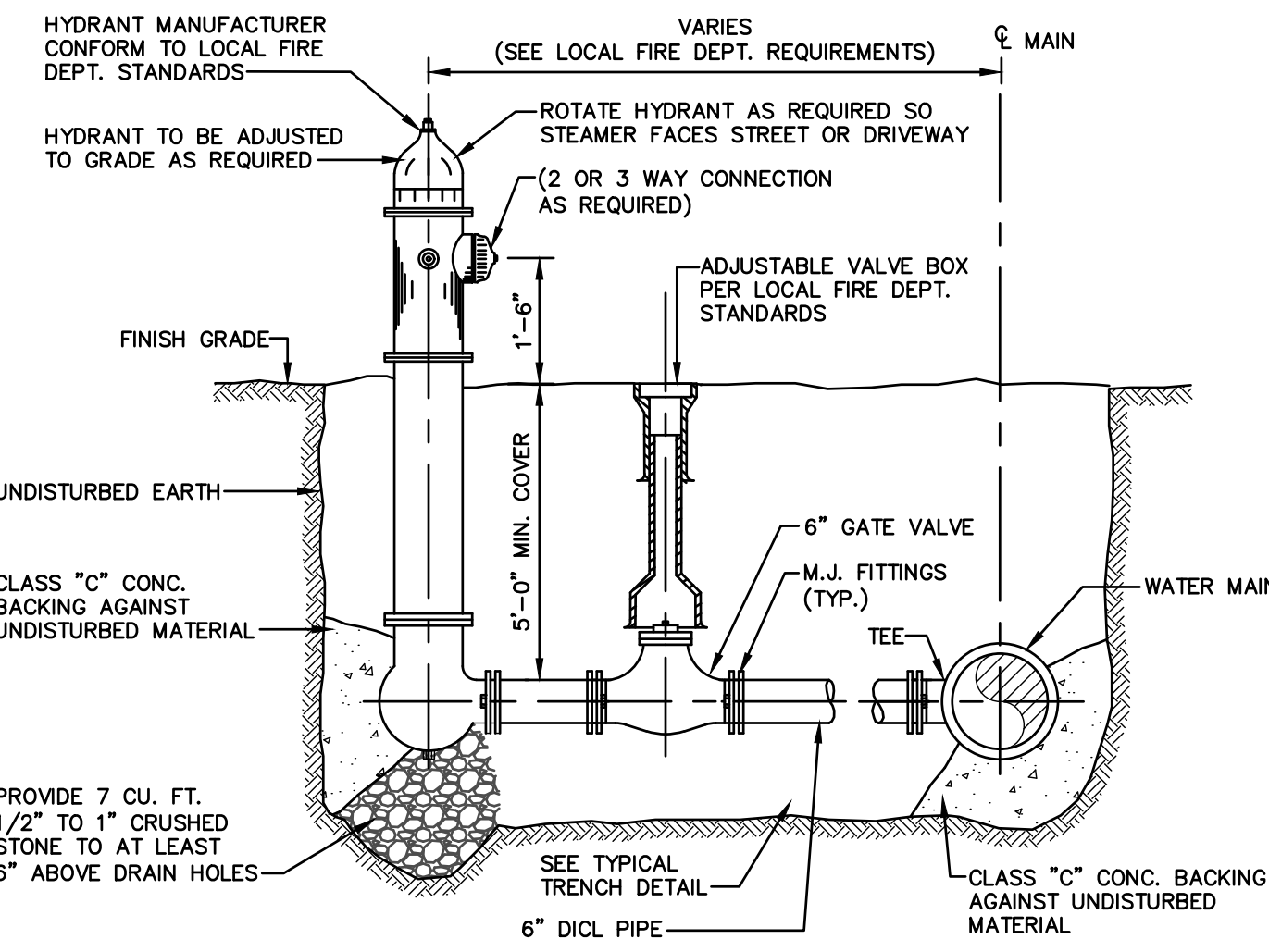
BENDS



D DIAMETER OF PIPE	TRENCH WIDTH, Ws OR Wu	
	Wu UNSHEEDED	Ws SHEEDED
12" AND SMALLER	3'-0"	4'-2"
15"	3'-2"	4'-4"
18"	3'-6"	4'-8"
21"	3'-10"	5'-0"
24"	4'-2"	5'-4"
27"	4'-6"	5'-8"
30"	4'-10"	6'-0"
36"	5'-6"	6'-8"
42"	6'-2"	7'-4"
48"	6'-10"	8'-0"

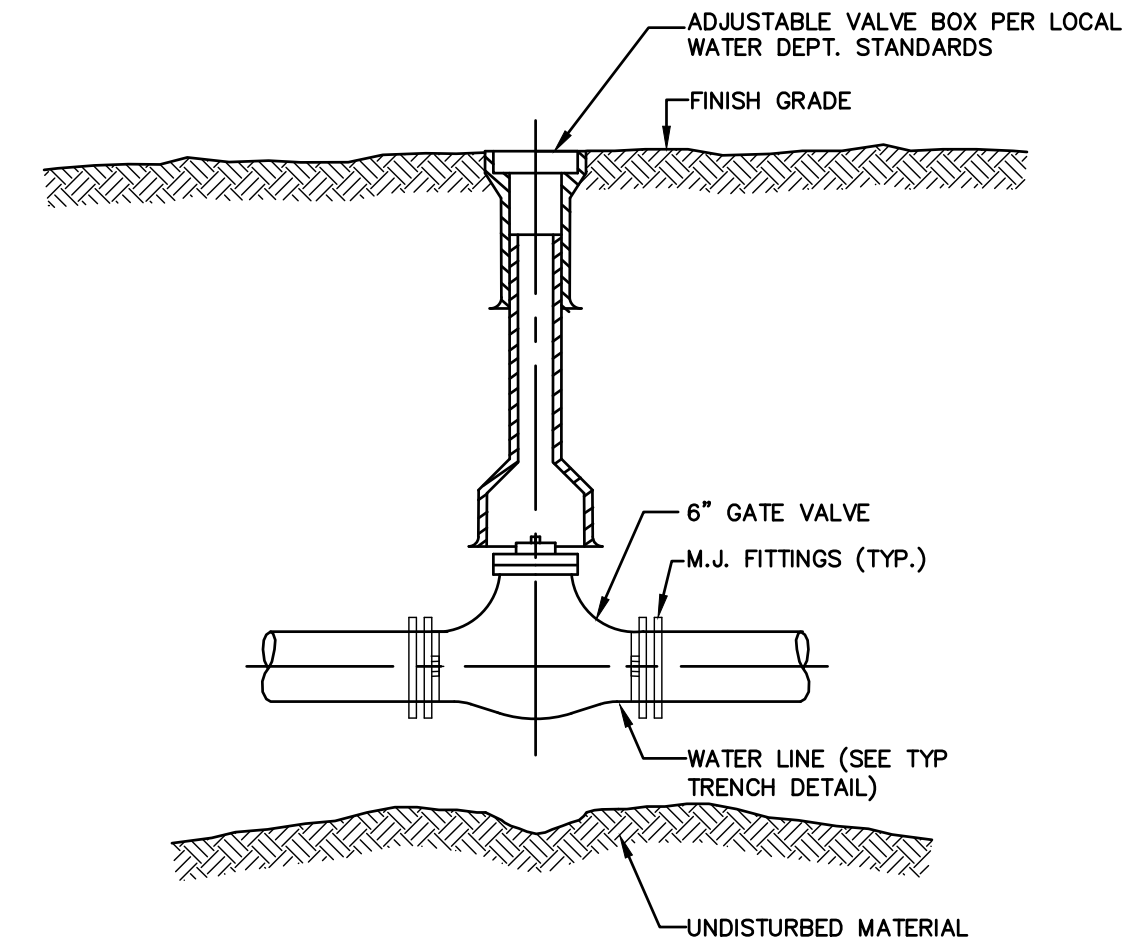
**NOTES:**  
 1. ALL TRENCHES IN PUBLIC WAYS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF AGENCY HAVING JURISDICTION OVER SAID PUBLIC WAY.  
 2. TRENCHES IN EXISTING PAVEMENT SHALL HAVE PAVEMENT SAWCUT AND REMOVED 12" BEYOND LIMIT OF TRENCH PRIOR TO PAVING. PAVEMENT AND TRENCHES SHALL MATCH EXISTING PAVEMENT BOX WITH MINIMUMS AS SHOWN ON PAVING DETAIL.

**TYPICAL PIPE TRENCH SECTION**  
 SCALE: NONE

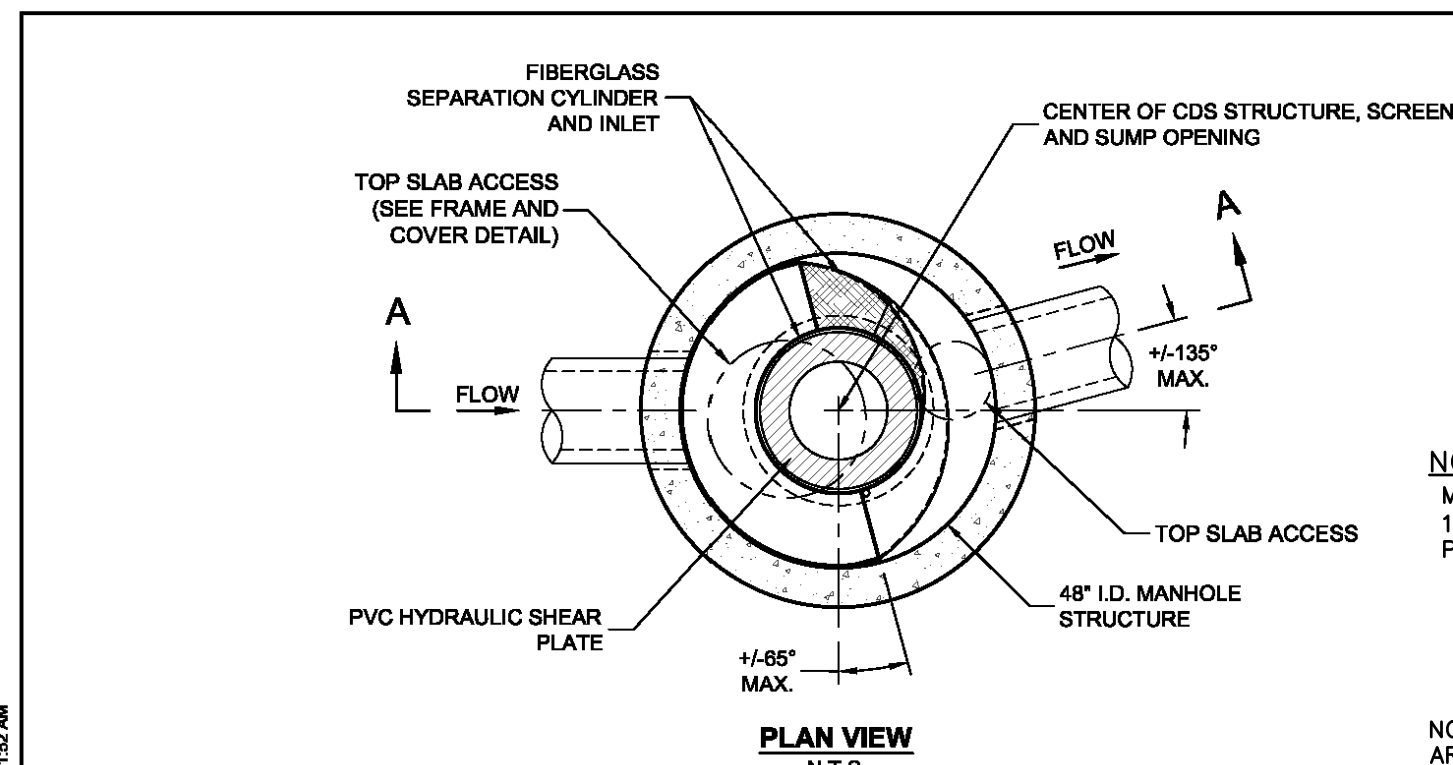


**NOTES:**  
 1. HYDRANTS SHALL BE PAINTED ONSET FIRE DISTRICT RED WITH SCOTCHLITE REFLECTIVE PAINT.  
 2. FOR HYDRANTS INSTALLED AT DEAD ENDS OF WATER MAINS: INSTALL VALVES WITH RETRAINED JOINTS ON BOTH SIDES OF HYDRANT TEE AND ONE (1) FULL LENGTH OF PIPE BETWEEN VALVE AND MECHANICALLY RESTRAINED CAP OR PLUG.

**FIRE HYDRANT & VALVE**  
 SCALE: NONE



**GATE VALVE**  
 SCALE: NONE

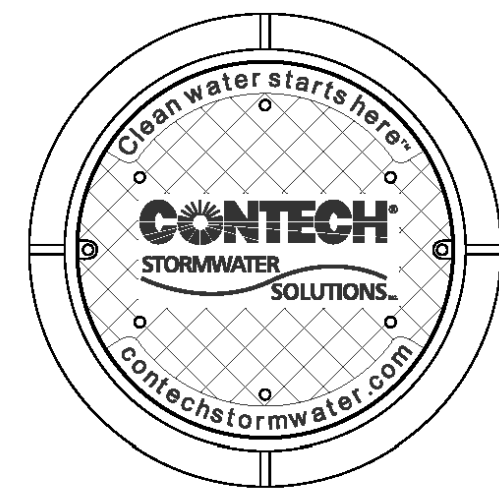


**NOTE:**  
 MANHOLE FRAME SHALL BE SET IN A CONCRETE BED 12" WIDE AND 12" THICK AND EXTEND TO TOP OF PAVEMENT BINDER COURSE.

**NOTE:**  
 CONCRETE BED AROUND FRAME SHALL BE 12" THICK AND EXTEND TO TOP OF PAVEMENT BINDER COURSE OR 12" THICK IN NON-PAVED AREAS.

**CDS2015-4 DESIGN NOTES**  
 CDS2015-4 RATED TREATMENT CAPACITY IS 0.7 CFS, OR PER LOCAL REGULATIONS. MAXIMUM HYDRAULIC INTERNAL BYPASS CAPACITY IS 10.0 CFS. IF THE SITE CONDITIONS EXCEED 10.0 CFS, AN UPSTREAM BYPASS STRUCTURE IS REQUIRED.  
 THE STANDARD CDS2015-4 CONFIGURATION IS SHOWN. ALTERNATE CONFIGURATIONS ARE AVAILABLE AND ARE LISTED BELOW. SOME CONFIGURATIONS MAY BE COMBINED TO SUIT SITE REQUIREMENTS.

DESIGNATION (MODEL SUFFIX)	CONFIGURATION DESCRIPTION
G	GRATED INLET ONLY (NO INLET PIPE)
GP	GRATED INLET WITH INLET PIPE OR PIPES
K	CURB INLET ONLY (NO INLET PIPE)
KP	CURB INLET WITH INLET PIPE OR PIPES



**SITE SPECIFIC DATA REQUIREMENTS**

STRUCTURE ID	WATER QUALITY FLOW RATE (CFS)	PEAK FLOW RATE (CFS)	RETURN PERIOD OF PEAK FLOW (YRS)	SCREEN APERTURE (2400 OR 4700)

PIPE DATA	I.E.	MATERIAL	DIAMETER
INLET PIPE 1			
INLET PIPE 2			
OUTLET PIPE			

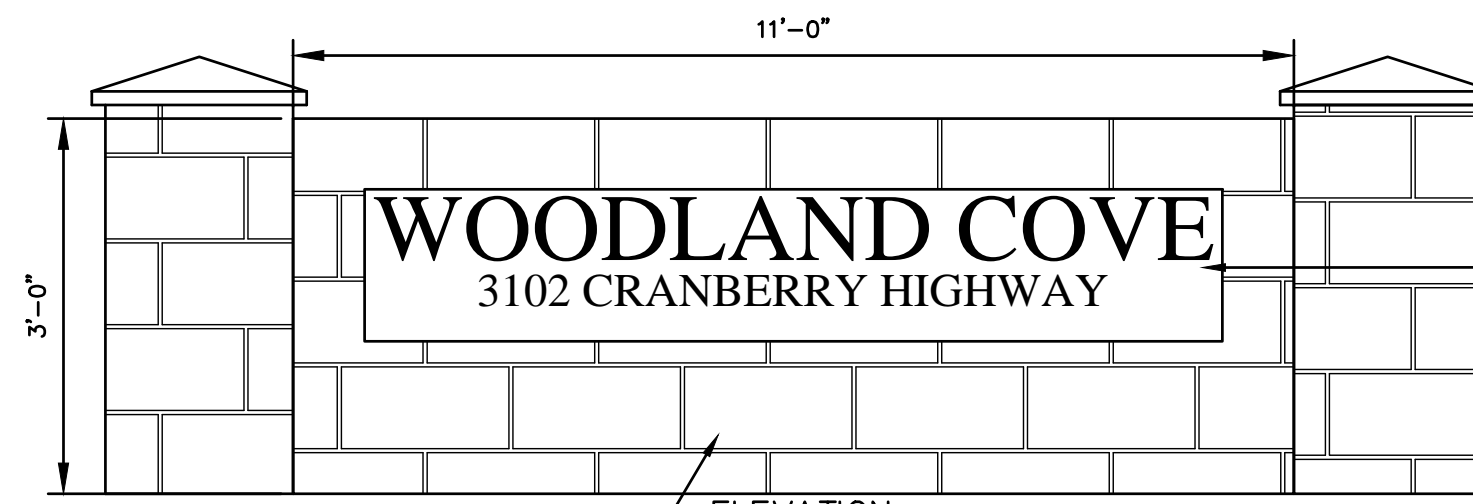
ANTI-FLOTATION BALLAST	WIDTH	HEIGHT

NOTES/SPECIAL REQUIREMENTS:  
 \* PER ENGINEER OF RECORD

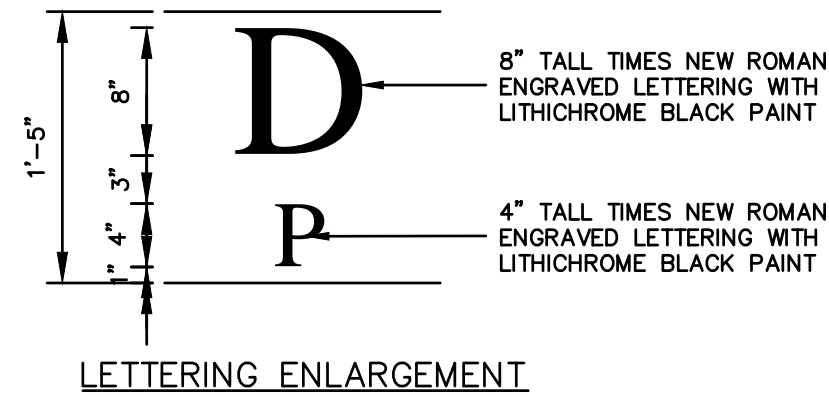
**GENERAL NOTES**  
 1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.  
 2. DIMENSIONS MARKED WITH ( ) ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.  
 3. FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH STORMWATER SOLUTIONS REPRESENTATIVE. www.contechstormwater.com  
 4. CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.  
 5. STRUCTURE AND CASTINGS SHALL MEET AASHTO HS20 LOAD RATING.  
 6. PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELVE AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.

**INSTALLATION NOTES**  
 1. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.  
 2. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE (LIFTING CLUTCHES PROVIDED).  
 3. CONTRACTOR TO ADD JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS, AND ASSEMBLE STRUCTURE.  
 4. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN.  
 5. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

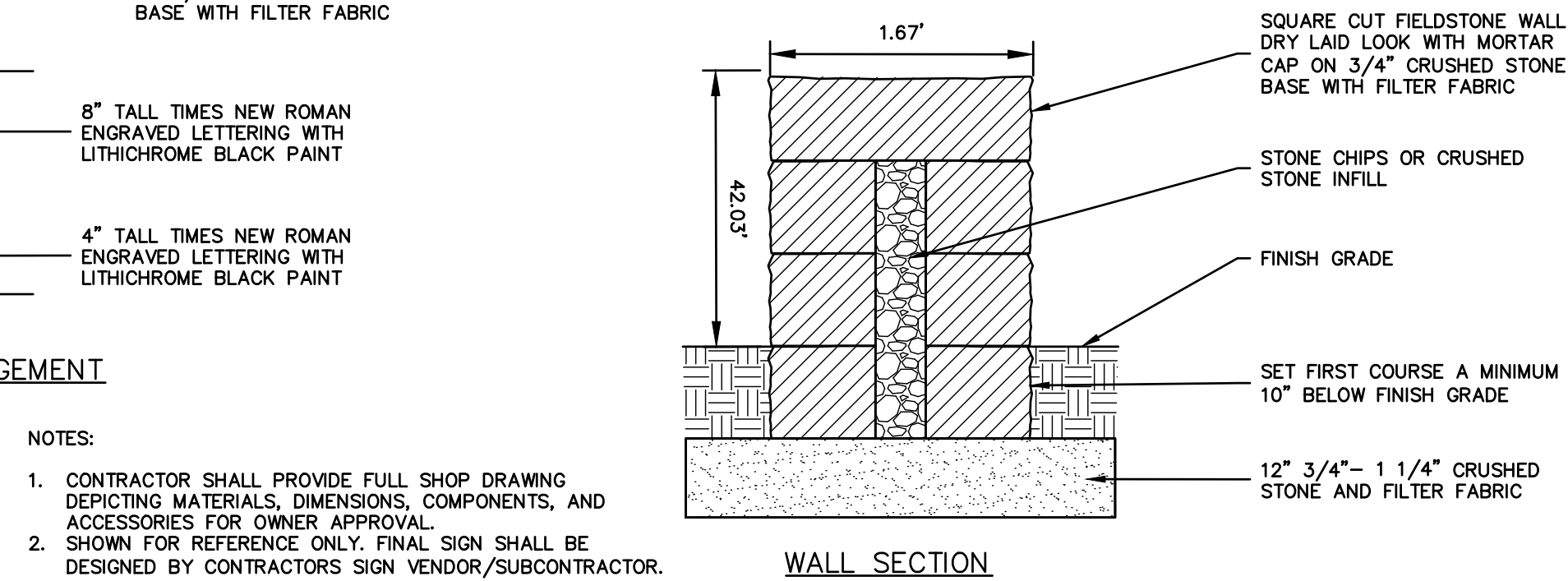
**CDS2015-4 PRECAST CONCRETE WATER QUALITY SYSTEM STANDARD DETAIL**



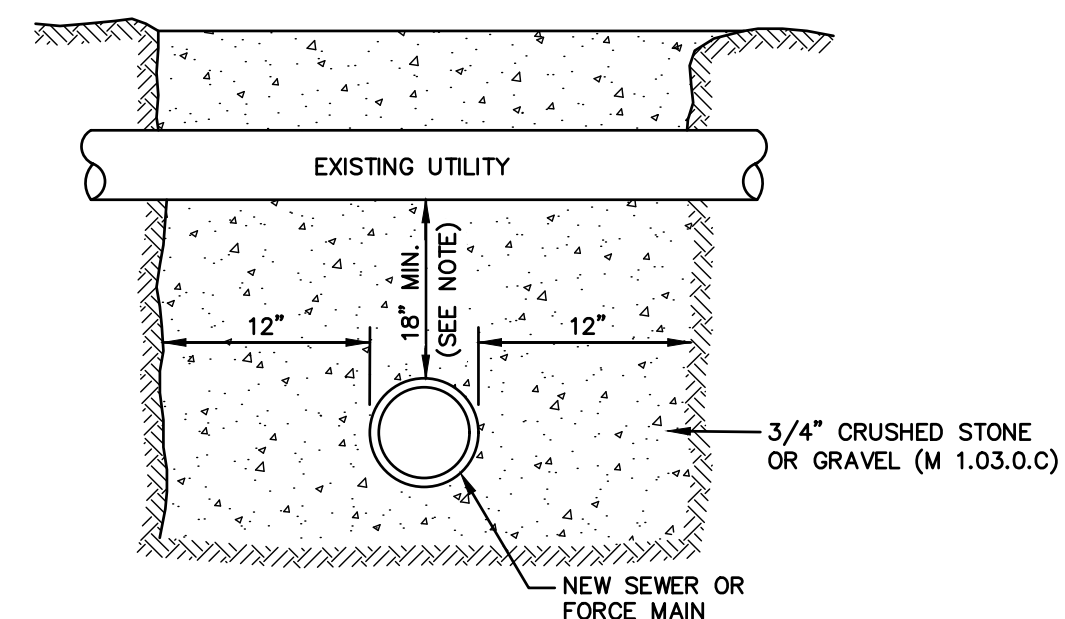
MASSACHUSETTS WEATHERED, AGED FIELDSTONE WALL. DRY LAID LOOK WITH MORTAR CAP ON 3/4" CRUSHED STONE BASE WITH FILTER FABRIC.



**FIELD STONE SIGN**  
 SCALE: NONE



**NOTES:**  
 1. CONTRACTOR SHALL PROVIDE FULL SHOP DRAWING DEPICTING MATERIALS, DIMENSIONS, COMPONENTS, AND ACCESSORIES FOR OWNER APPROVAL.  
 2. SHOWN FOR REFERENCE ONLY. FINAL SIGN SHALL BE DESIGNED BY CONTRACTORS SIGN VENDOR/SUBCONTRACTOR.



**NOTES:**  
 1. 3000 PSI CONCRETE IS TO BE USED TO ENCASE ALL SANITARY SEWERS AND SERVICE CONNECTIONS WHICH ARE WITHIN 18 INCHES OF A WATERLINE. ENCASEMENT SHALL BE A MINIMUM OF 6 INCHES AROUND THE SANITARY SEWER AND EXTEND A MINIMUM OF 10 FEET BEYOND THE WATER PIPE.

**TYPICAL UTILITY CROSSING**  
 SCALE: NONE

**CONTECH WATER QUALITY UNIT (OR APPROVED EQUAL)**  
 SCALE: NONE

CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

**BSC GROUP**  
 803 Summer Street  
 Boston, Massachusetts 02127  
 617.896.4300

Proposed Design for  
**Woodland Cove Phase 1**  
 Buildings E, F, & COMMUNITY BUILDING  
 3102 Cranberry Highway  
 Wareham, MA 02532



SHEET CONTENTS:

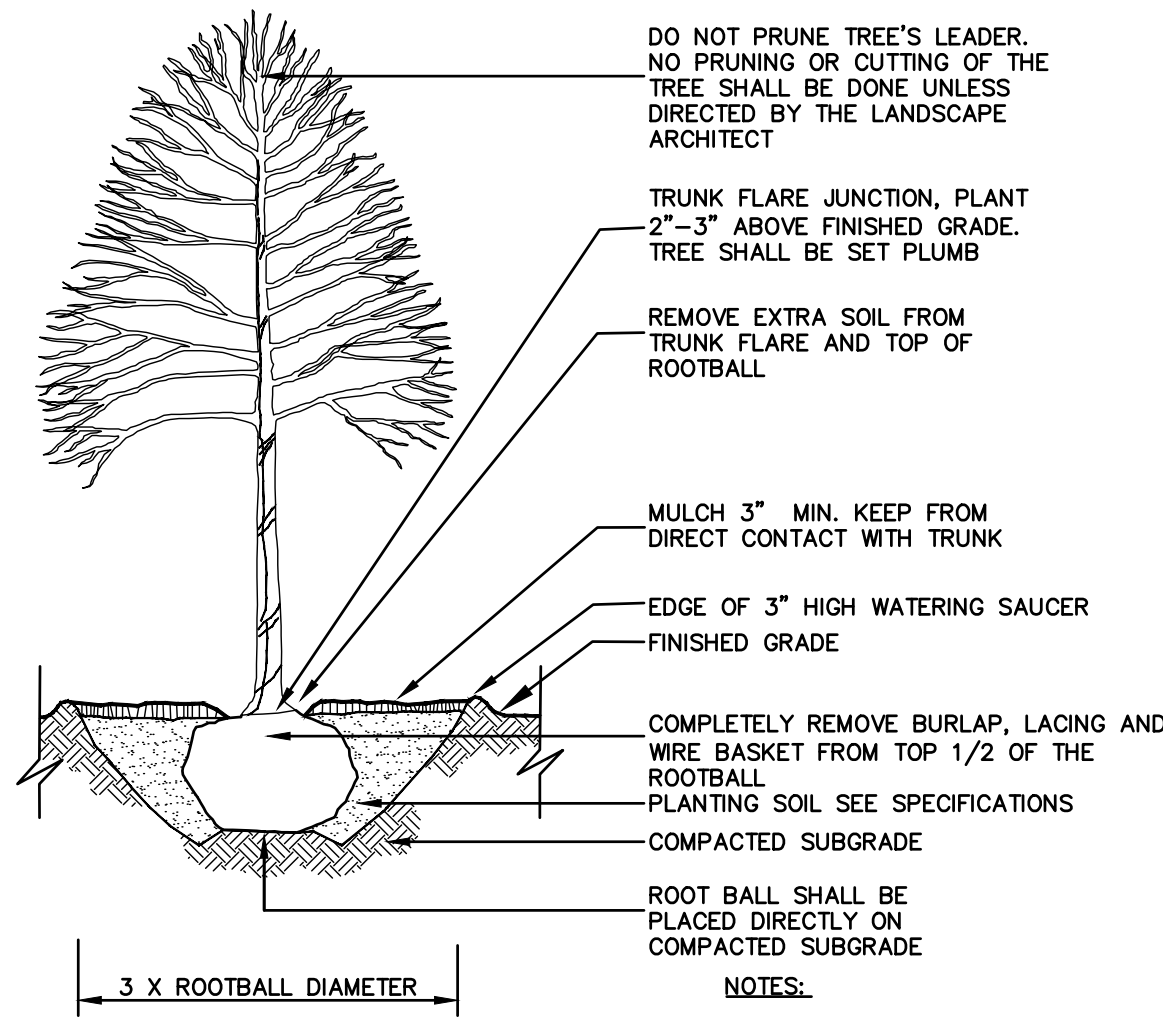
CIVIL DETAILS V

PROJECT # 8-3669.00

DATE: 9/22/2020  
 REVISED DATE:  
 REVISOR: 02/16/2021

SCALE: NONE

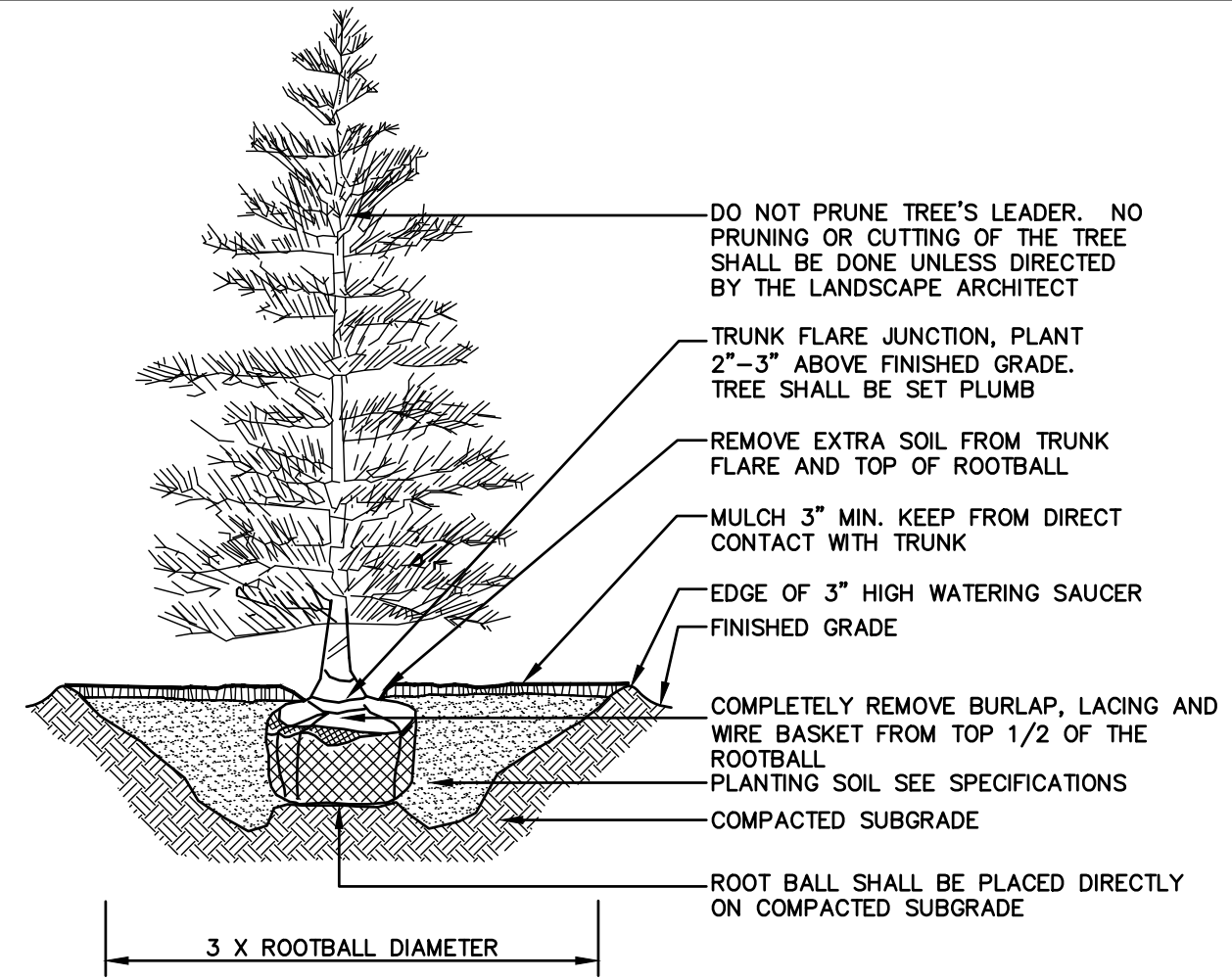
**C-504**



**DECIDUOUS TREE PLANTING**

SCALE: NONE

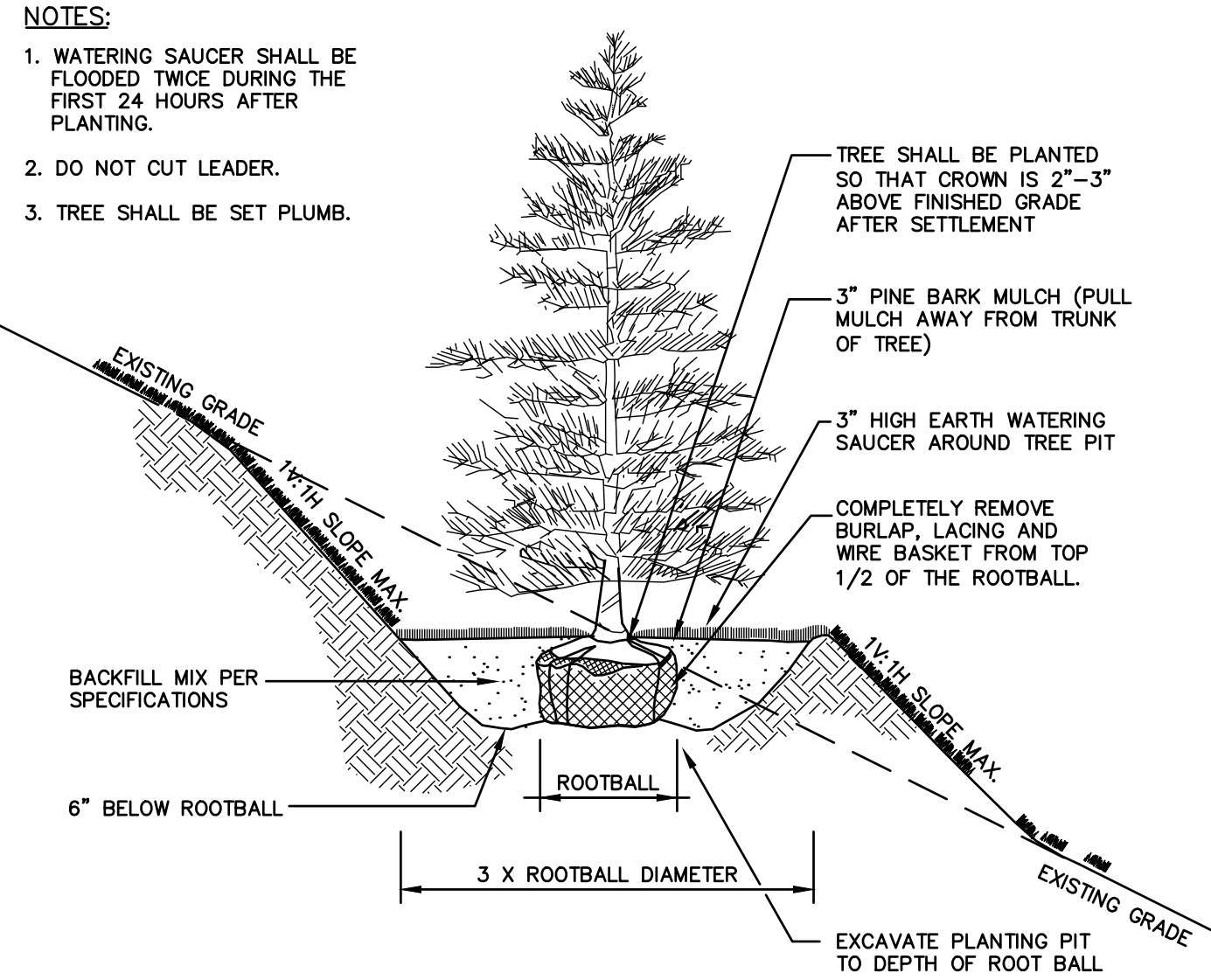
- NOTES:
1. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
  2. SAUCER SHALL BE FLOODED TWICE DURING THE FIRST 24 HOURS AFTER PLANTING.
  3. DO NOT STAKE OR WRAP TREE UNLESS NOTED OTHERWISE.
  4. TREE WATERING BAG SHALL BE INSTALLED AND MAINTAINED UNTIL ACCEPTANCE BY OWNER.



**EVERGREEN TREE PLANTING**

SCALE: NONE

- NOTES:
1. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
  2. SAUCER SHALL BE FLOODED TWICE DURING THE FIRST 24 HOURS AFTER PLANTING.
  3. TREE WATERING BAG SHALL BE INSTALLED AND MAINTAINED UNTIL ACCEPTANCE BY OWNER.

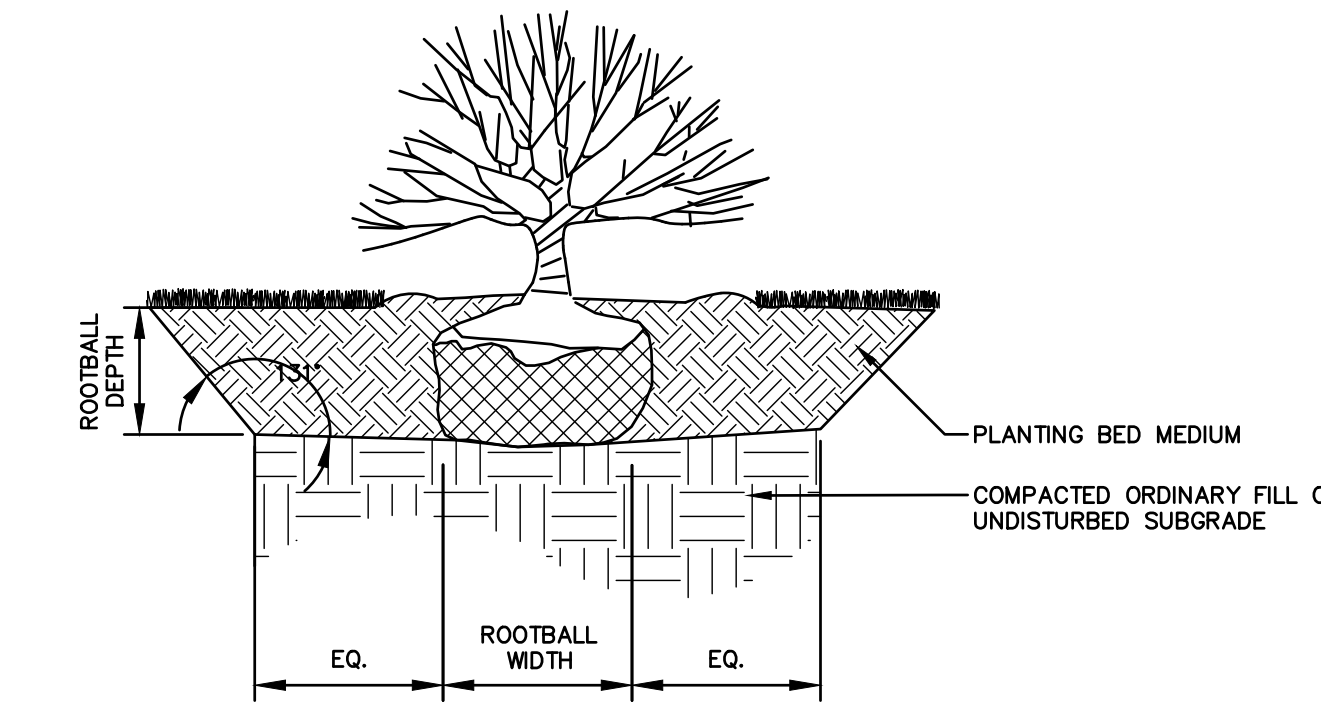


**TREE (SLOPE PLANTING)**

SCALE: NONE

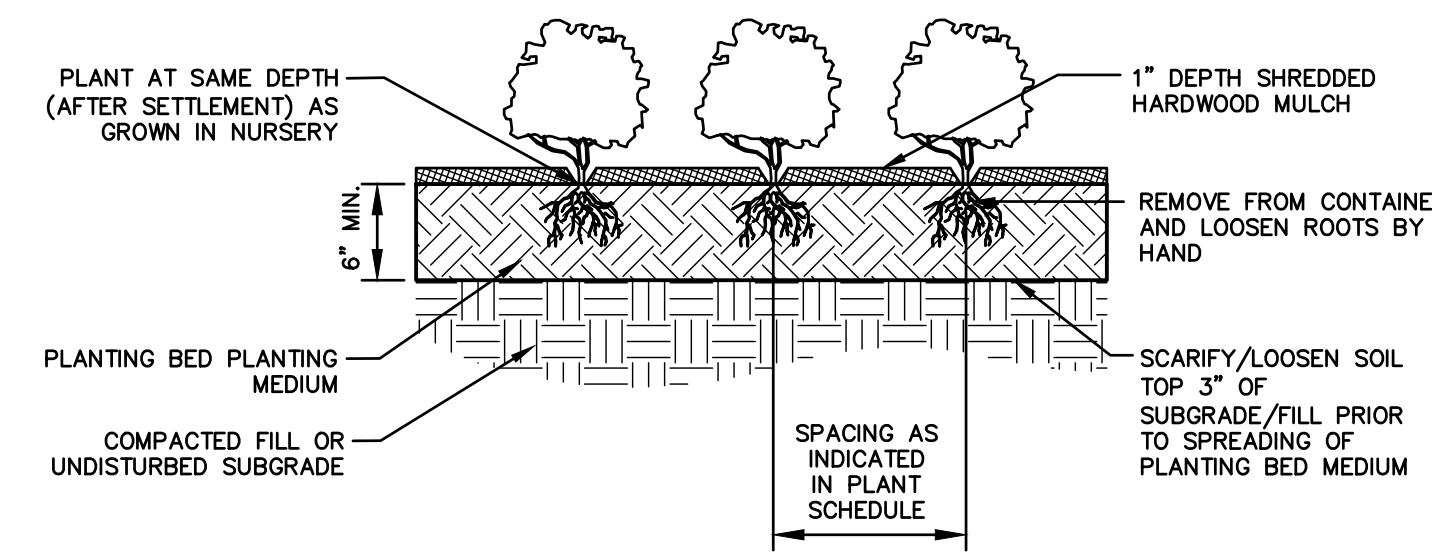
- NOTES:
1. WATERING SAUCER SHALL BE FLOODED TWICE DURING THE FIRST 24 HOURS AFTER PLANTING.
  2. DO NOT CUT LEADER.
  3. TREE SHALL BE SET PLUMB.

- NOTES:
1. LOOSE OR CRACKED ROOT BALLS ARE UNACCEPTABLE.
  2. EXCAVATE TO REQUIRED DEPTH AND DO NOT EXCAVATE BELOW ROOT BALL DEPTH.
  3. SET SHRUBS PLUMB WITH ROOT FLARE 1" ABOVE FINISHED GRADE, BACKFILL WITH PLANTING MIX.
  4. FLOOD WATERING SAUCER TWICE IN FIRST 24 HOURS AFTER PLANTING.
  5. RAISE AND REPLANT ANY SHRUBS THAT SETTLE AFTER PLANTING & WATERING.
  6. REMOVE 1/3 BURLAP PRIOR TO BACKFILL. SYNTHETIC BURLAP UNACCEPTABLE
  7. 2" DEPTH MULCH (KEEP MULCH 1" AWAY FROM SHRUB BASE) 3" HIGH EARTH WATERING SAUCER 1'-0" BEYOND ROOT BALL PLANTING MIXTURE.
  8. FOR CONTAINERIZED PLANTS: REMOVE CONTAINER PRIOR TO PLANTING, SCARIFY ROOT BALL BELOW EDGE 1/2" DEEP IN FOUR LOCATIONS.



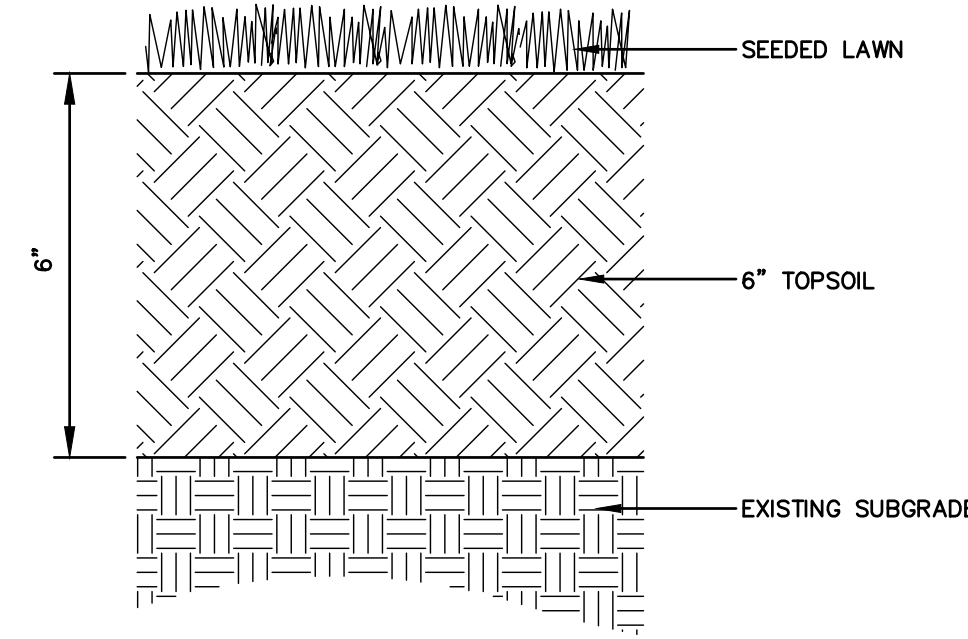
**SHRUB PLANTING TYP.**

SCALE: NONE



**GROUNDCOVER & PERENNIAL PLANTING TYP.**

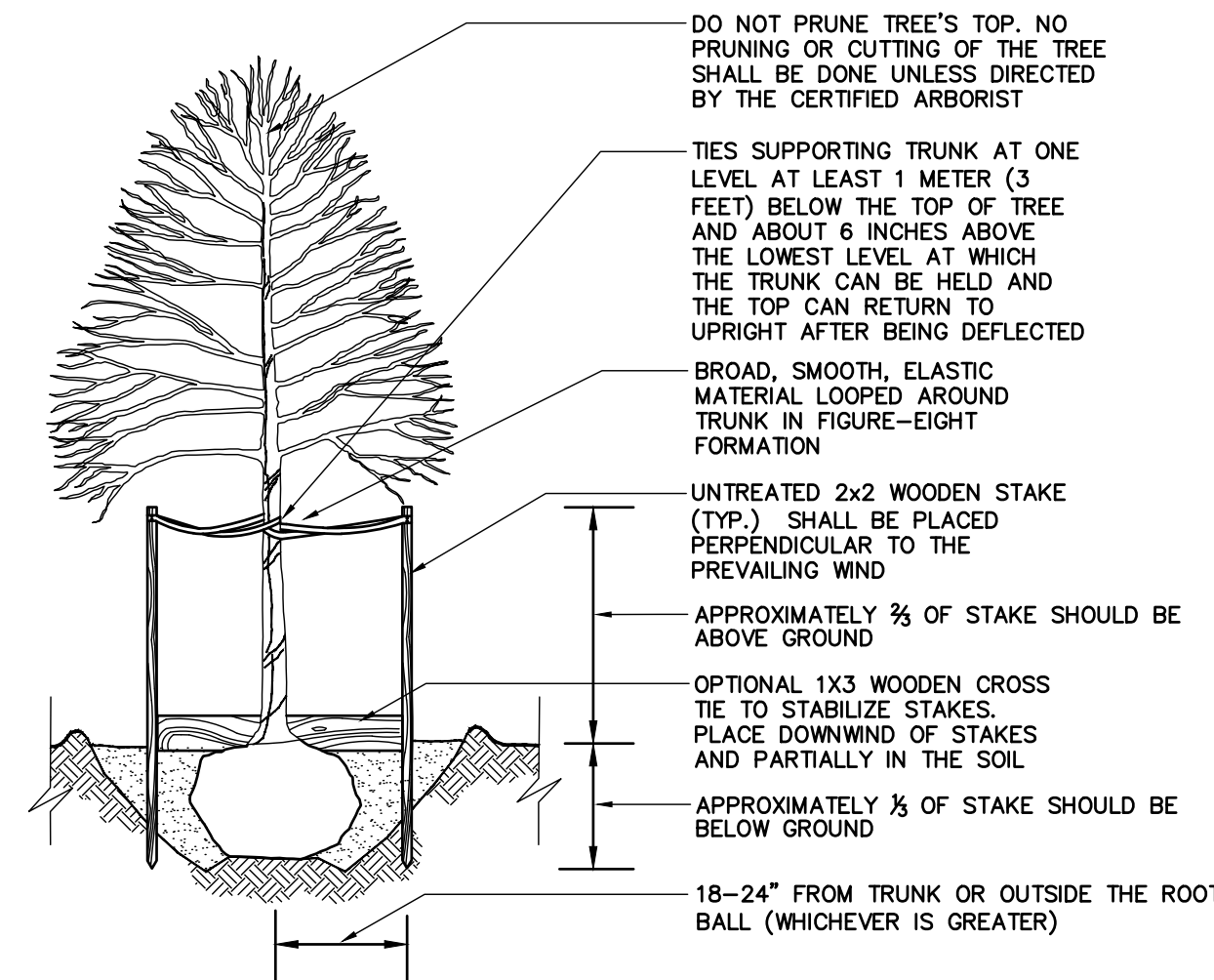
SCALE: NONE



**LAWN**

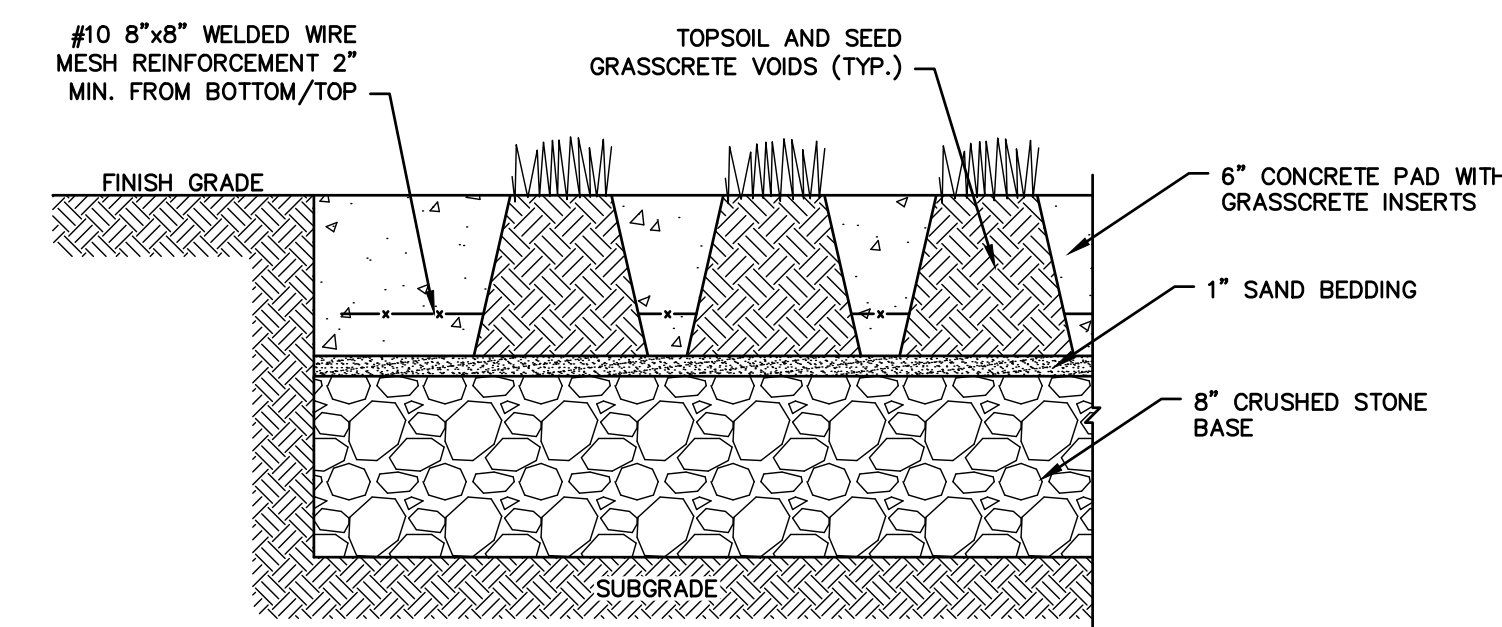
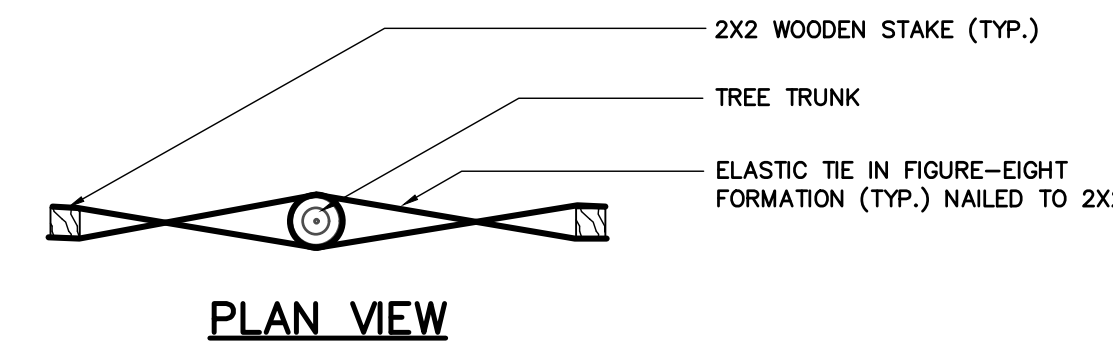
SCALE: NONE

- NOTES:
1. CONTRACTOR SHALL PREPARE SOILS IN ALL DISTURBED AREAS AND AREAS USED FOR EQUIPMENT ACCESS.



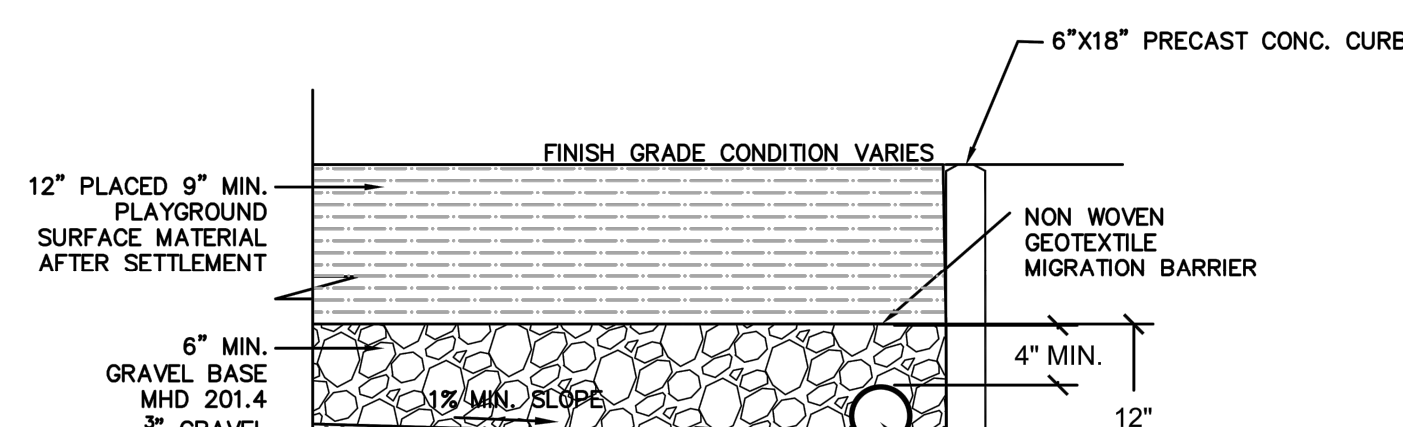
**TREE STAKING DETAIL**

SCALE: NONE



**GRASSCRETE FIRE LANE**

SCALE: NONE



- NOTES:
1. EWF SURFACE DETAIL PROVIDED FOR DESIGN INTENT AND REFERENCE ONLY AND REPRESENTS MINIMUM REQUIREMENTS FOR DEPTH.
  2. SUBMIT SHOP DRAWINGS FOR SURFACE BASED ON MANUFACTURERS STANDARDS, COORDINATED WITH PLAY EQUIPMENT DESIGN (BY OTHERS).
  3. EWF SURFACE IS NOT INTENDED FOR USE ALONG ACCESSIBLE ROUTES.

**ENGINEERED WOOD FIBER PLAY SURFACE**

SCALE: NONE

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CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

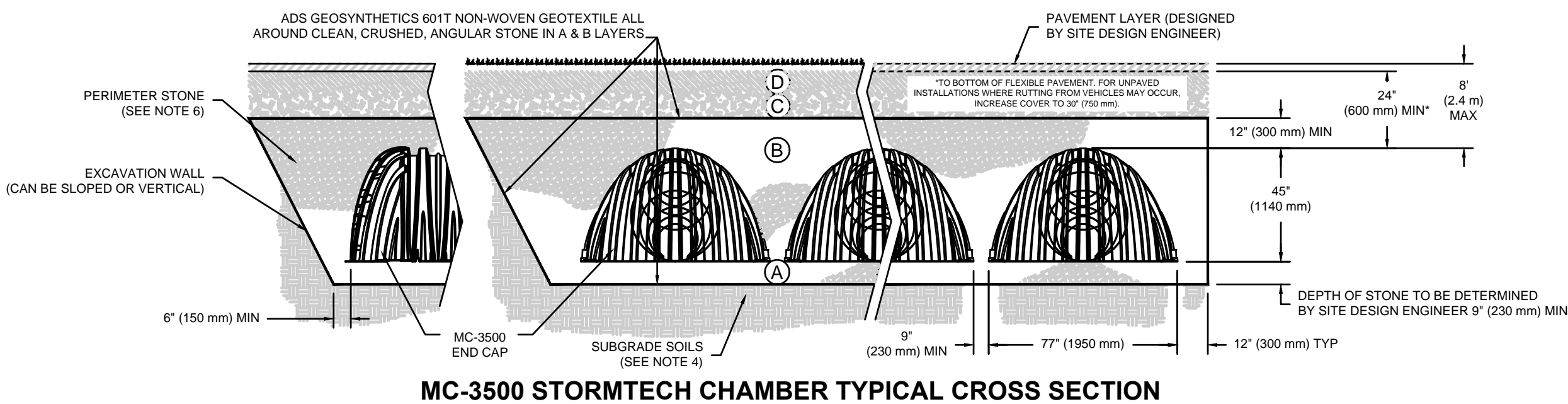
SHEET CONTENTS:

CIVIL DETAILS VI

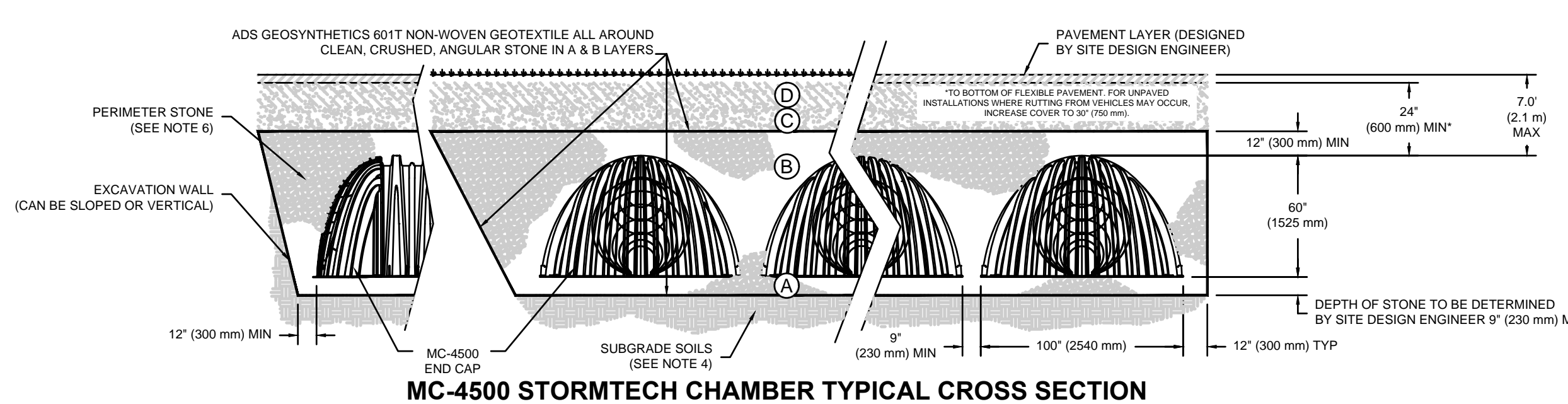
PROJECT # 8-3669.00

DATE: 9/22/2020  
REVISED DATE:  
△ REVISED: 02/16/2021

SCALE: NONE



**MC-3500 STORMTECH CHAMBER TYPICAL CROSS SECTION**



**MC-4500 STORMTECH CHAMBER TYPICAL CROSS SECTION**

SYSTEM	BOTTOM STONE ELEVATION	BOTTOM CHAMBER ELEVATION	TOP CHAMBER ELEVATION	TOP STONE ELEVATION
1 (MC-4500)	63.00	63.75	68.75	69.75
2 (MC-3500)	68.00	68.75	72.50	73.50
3 (MC-4500)	63.00	63.75	68.75	69.75
4 (MC-3500)	NOT INCLUDED IN PHASE 1			
5 (MC-3500)	69.50	70.25	74.00	75.00

**NOTES:**

- CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND FILL MATERIALS.
- THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.

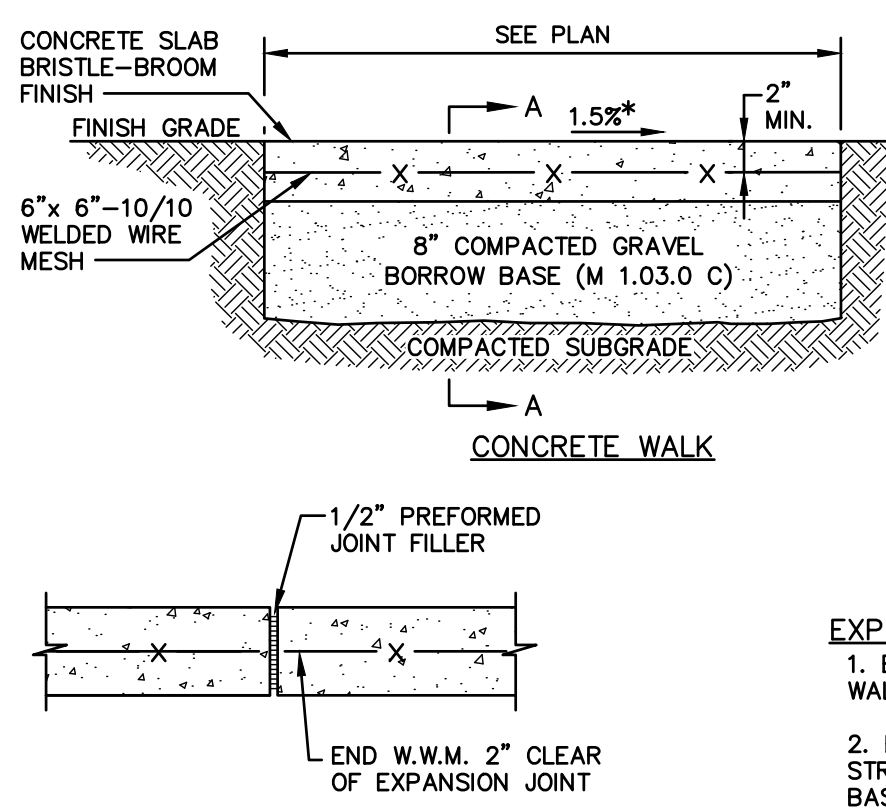
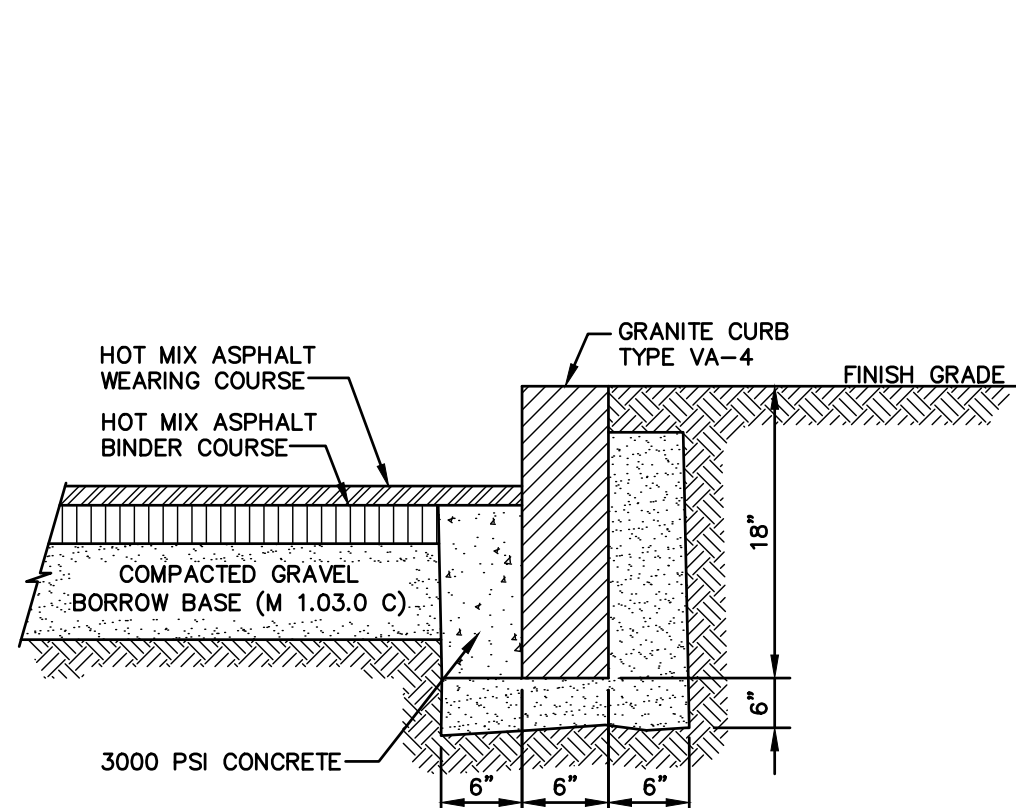
**ACCEPTABLE FILL MATERIALS: STORMTECH CHAMBER SYSTEMS**

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 24" (600 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	AASHTO M145 <sup>1</sup> A-1, A-2-4, A-3 OR AASHTO M43 <sup>1</sup> 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 24" (600 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.
B	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	AASHTO M43 <sup>1</sup> 3, 4	NO COMPACTION REQUIRED.
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	AASHTO M43 <sup>1</sup> 3, 4	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. <sup>1</sup>

- PLEASE NOTE:
- THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
  - STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (230 mm) MAX LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
  - WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.

**STORMTECH UNDERGROUND INFILTRATION SYSTEM (OR APPROVED EQUAL)**

SCALE: NONE



**NOTES:**

- WALK TO 6" THICK IF SUBJECT TO VEHICULAR LOAD.
- PROVIDE EXPANSION JOINTS AT MIN. 20 FT O.C. WITH PRE-MOULDED JOINT FILLER.
- PROVIDE CONTROL JOINTS AT 5' O.C.
- PROVIDE BROOM FINISH IN DIRECTION PERPENDICULAR TO CURB.
- CONCRETE SHALL BE 4,000 PSI-TYPE II.
- CONSTRUCTION TOLERANCE = 0.5%.

**EXPANSION JOINT NOTES:**

- EJ AT ALL INTERSECTIONS WALKS-EVENLY SPACE CJ BETWEEN EJ.
- EJ ALONG ALL RETAINING WALLS, STRUCTURES, HANDICAP RAMPS, LIGHT BASES, BENCHES ETC.. USE REMOVABLE PVC SPACER & SILICONE JOINT FILLER.
- ALONG GRANITE CURB PROVIDE POLYETHYLENE BOND BREAKER & TOOL EDGE JOINT.

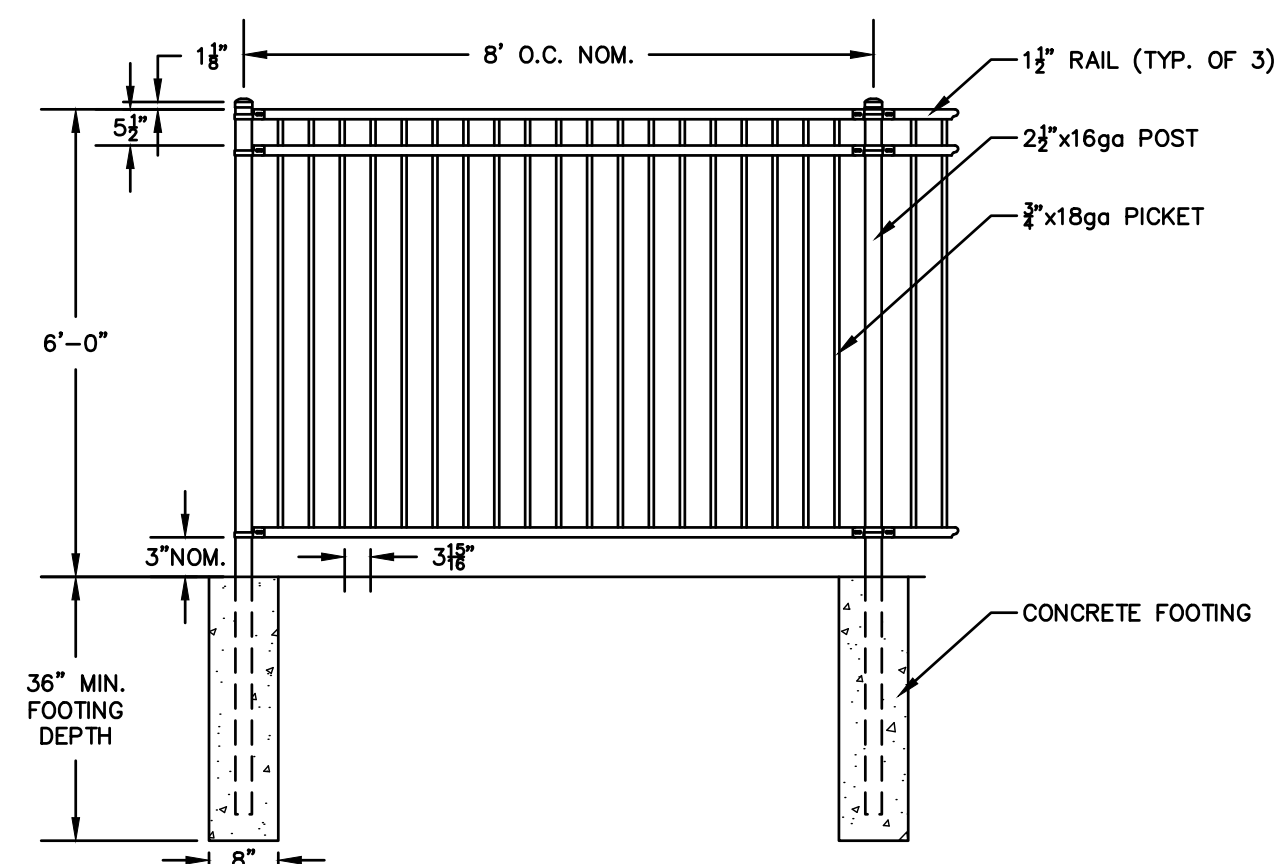
**CONTROL/EXPANSION JOINT SPACING**

WIDTH	CJ	EJ
4'	5'	25'
5'	5'	25'
6'	6'	24'
7'	5'	28'
8'	4'x4'	24'
9'	4.5'x4.5'	27'
10'	5'x5'	30'

CJ= CONTROL JOINT  
EJ= EXPANSION JOINT

**VERTICAL GRANITE CURB: FOR ALTERNATE**

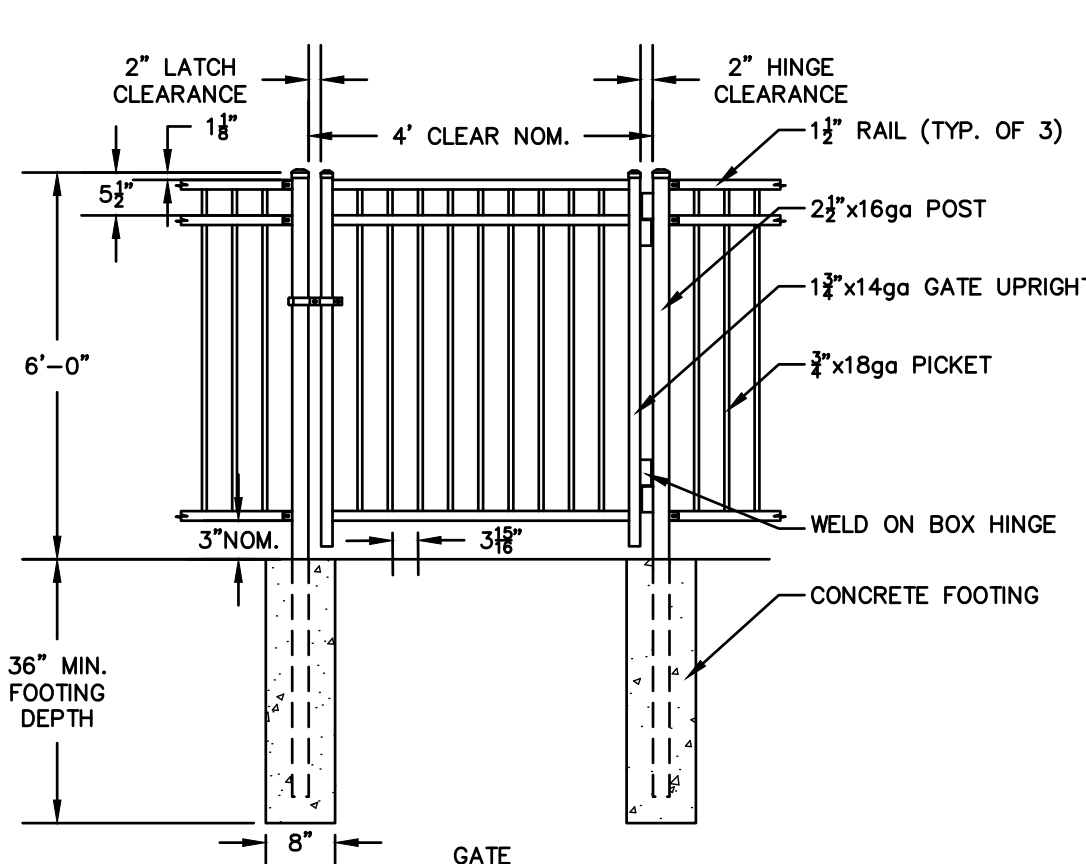
SCALE: NONE



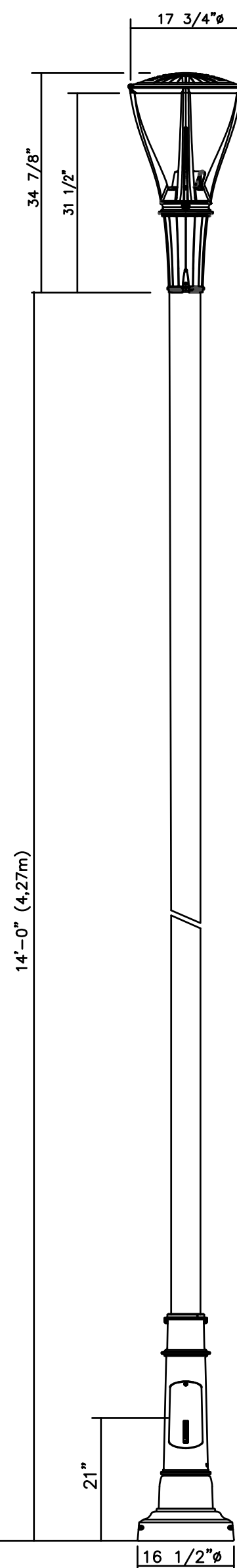
NOTE: METAL PICKET FENCE SHALL BE 4" TALL, MONTAGE PLUS, MAJESTIC - 3 RAIL FLUSH BOTTOM, 4" AIR GAP, AS MANUFACTURED BY MASTER HALCO, INC. OR ENGINEER AND OWNER APPROVED EQUAL.

**CONCRETE WALKWAY: FOR ALTERNATE**

SCALE: NONE

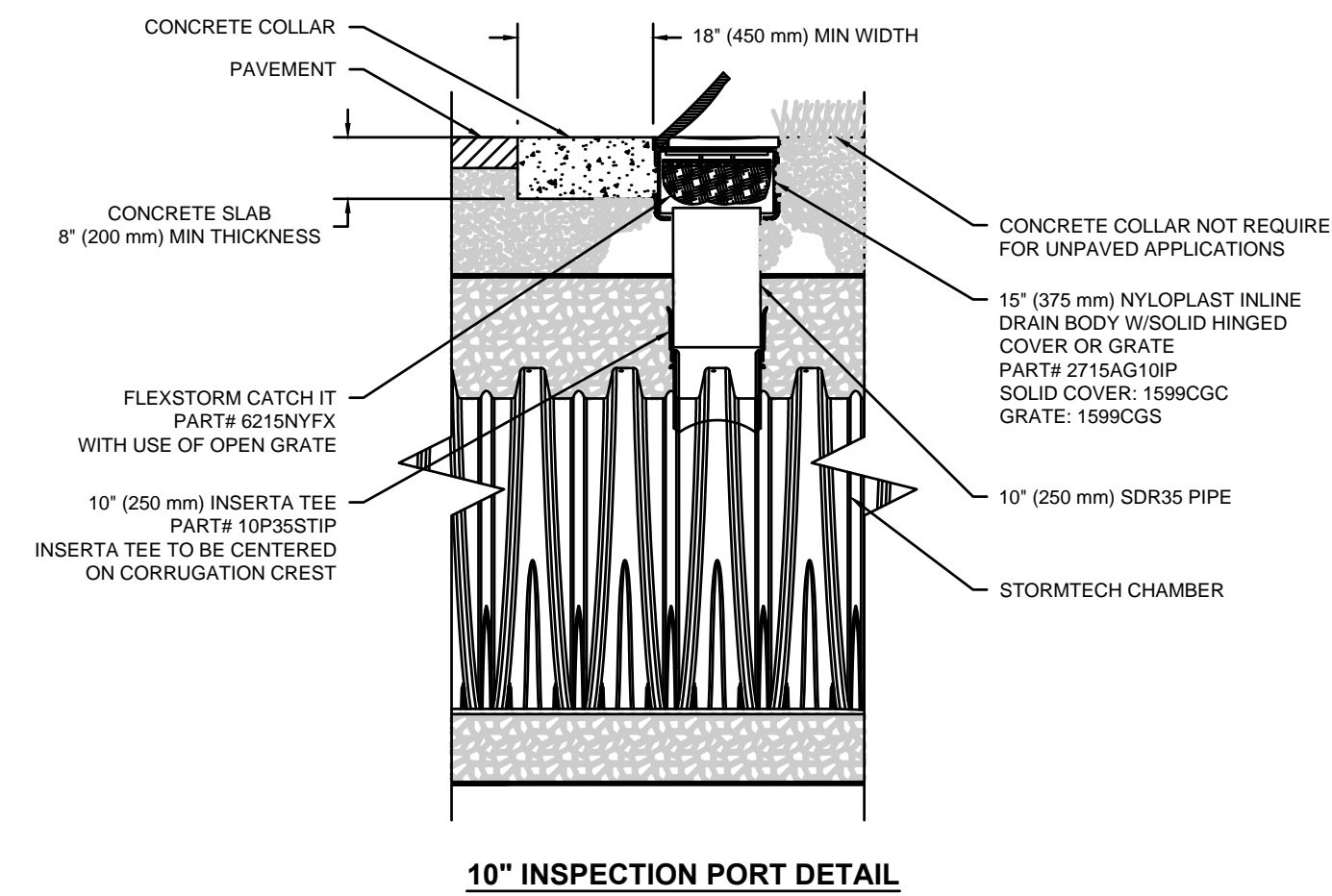


GATE NOTE: GATE SHALL BE FROM THE SAME MANUFACTURER AS FENCE, SPECIFICALLY MADE FOR THE APPROVED STYLE OF FENCE.



**NOTES:**

- SEE LUMINAIRE SCHEDULE ON UTILITY PLANS FOR FIXTURE DESCRIPTIONS AND QUANTITIES
- SEE ELECTRICAL PLANS FOR SERVICE CONNECTIONS
- PROVIDE PHOTOMETRIC PLANS FROM LIGHTING MANUFACTURER OR MANUFACTURER'S REPRESENTATIVE AS WELL AS PRODUCT SHOP DRAWINGS FOR REVIEW AND APPROVAL BY ENGINEER AND OWNER PRIOR TO ORDERING SIGHT LIGHTING.



**NOTE:**

- ONE INSPECTION PORT SHALL BE INSTALLED ON EACH ROW OF SYSTEM AND SHALL BE STAGGERED THROUGHOUT THE LENGTH OF THE SYSTEM

**ORNAMENTAL FENCE FOR PLAYGROUND: FOR ALTERNATE**

SCALE: NONE

**SITE LIGHT POLE**

SCALE: NONE



SHEET CONTENTS:

CIVIL DETAILS VII

PROJECT # 8-3669.00

DATE: 9/22/2020

REVISED DATE:

△ REVISED: 02/16/2021

SCALE: NONE

CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

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NOTES:

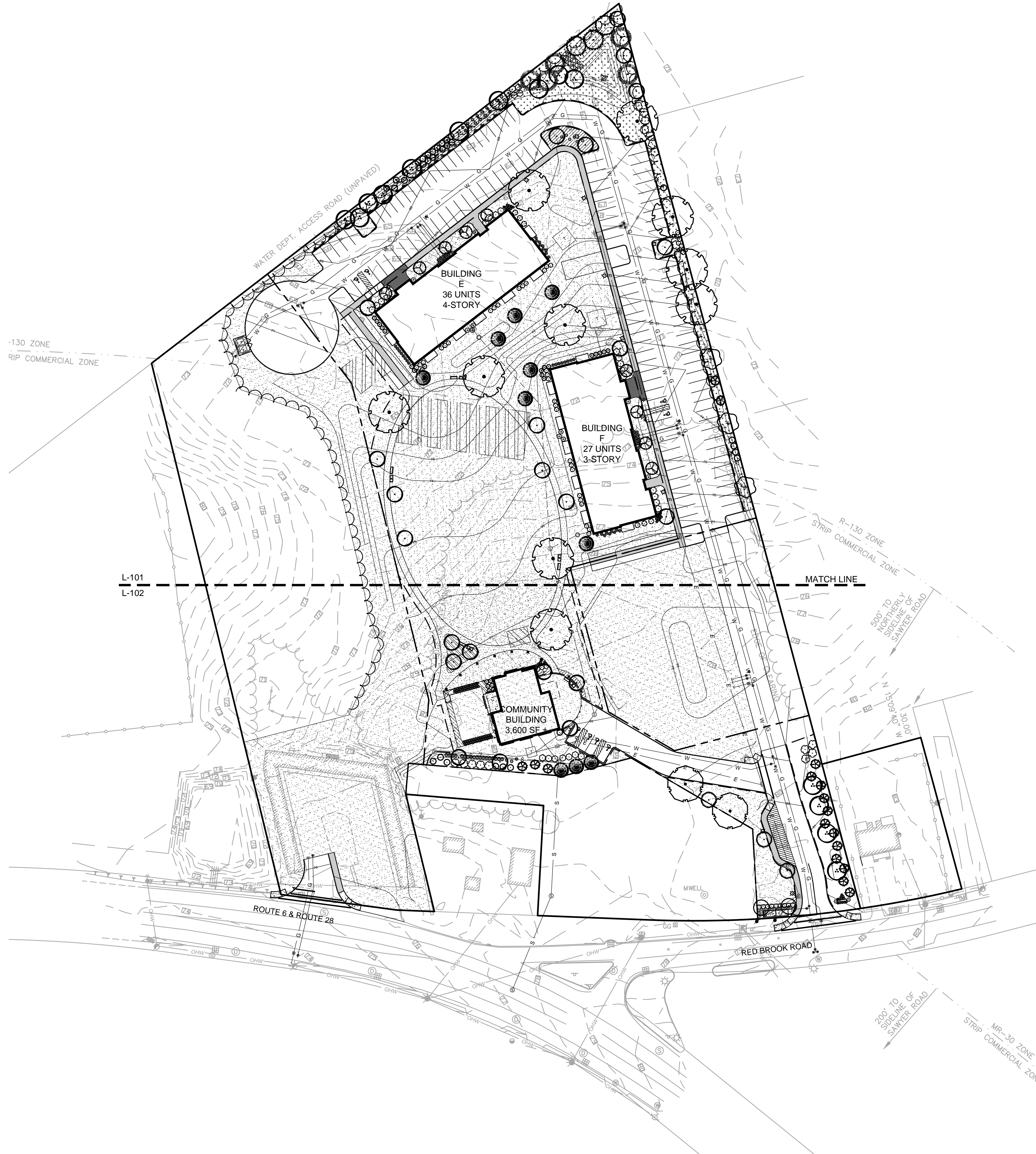
1. THE CONTRACTOR SHALL CLEARLY MARK LIMITS OF CLEARING AND LIMITS OF TREE REMOVAL, SELECTIVE PRUNING AND THINNING FOR REVIEW BY THE LANDSCAPE ARCHITECT PRIOR TO ANY CLEARING OPERATIONS. ALL TREE WORK SHALL BE SUPERVISED BY A LICENSED ARBORIST.
2. ALL TREES TO BE SAVED SHALL BE PROTECTED. SEE SPECIFICATION FOR TREE PROTECTION REQUIREMENTS.
3. THE EXISTING SITE CONSISTS OF SANDY SOILS WHICH HAVE BEEN PREVIOUSLY DISTURBED. THERE IS A TYPICAL OAK, PINE, AND SAVBERRY FOREST COMMUNITY AT THE SITE.
4. THE LANDSCAPE CONTRACTOR SHALL FURNISH LOAM. EXISTING LOAM-TOP SOIL MAY BE REUSED UPON APPROVAL BY THE LANDSCAPE ARCHITECT. LOAM SHALL BE FERTILE, FRAGILE, NATURAL AND PRODUCTIVE TOPSOIL OF GOOD SILT-LOAM TO SANDY-LOAM TYPE. LOAM SHALL BE WITHOUT ADMIXTURE OF SUBSOIL, AND SHALL BE REASONABLY FREE OF STONES, LUMPS, ROOTS, STICKS INVASIVE SEED OR STOCK AND OTHER FOREIGN MATTER. LOAM SHALL NOT BE WORKED OR APPLIED IN A MUDDY OR WET CONDITION.
5. PROVIDE SOIL TEST REPORTS FOR ONSITE LOAN TO BE REUSED AND FOR LOAM BORROW TO BE IMPORTED. SOIL TEST REPORT SHALL INCLUDE USDA TEXTURAL CLASSIFICATION TEXTURAL SIEVE ANALYSIS, PH, PERCENT ORGANIC, AS WELL AS NUTRIENT ANALYSIS, AND MICRO-NUTRIENTS.
6. ANY FERTILIZER APPLICATION SHALL CONFORM TO THE PROVISIONS OF 330 CMR 31.00-31.11
7. PROVIDE SOIL AMENDMENTS AS DIRECTED BY THE LANDSCAPE ARCHITECT BASED UPON THE FINDINGS OF SOIL TESTS PROVIDED FOR EXISTING LOAM-TOPSOIL AND IMPORTED LOAM. AT A MINIMUM TREE AND SHRUB PLANTINGS SHALL RECEIVE MYCORRHIZAE INOCULATION, AND POLYACRILAMIDE COIL CONDITIONER.
8. REMOVE ALL ROCKS AND DEBRIS FROM SOIL SURFACE AND GRADE TO AN EVEN SURFACE. - SEE SPECIFICATIONS.
9. COMPLETE QUANTITIES OF PLANTS FOR EACH AREA TO BE AVAILABLE ON SITE AT THE TIME OF PLANTING FOR FIELD LAYOUT BY OWNER'S REPRESENTATIVE. NO PARTIAL LAYOUT AND PLANTING OF AREAS WILL BE ACCEPTABLE.
10. ALL PLANT MATERIAL SHALL CONFORM TO THE MINIMUM GUIDELINES ESTABLISHED BY THE AMERICAN STANDARD FOR NURSERY STOCK PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. - SEE SPECIFICATION FOR DETAILED REQUIREMENTS.
11. ANY PROPOSED SUBSTITUTIONS OF PLANT MATERIAL SHALL BE MADE WITH MATERIAL EQUIVALENT TO THE DESIRED MATERIAL IN OVERALL EFFECT AND CULTURE. NO SUBSTITUTION OF PLANT SPECIES OR VARIETIES WILL BE ACCEPTABLE WITHOUT LANDSCAPE ARCHITECT'S WRITTEN APPROVAL.
12. OWNER'S REPRESENTATIVE TO APPROVE PLANT MATERIAL PRIOR TO DELIVERY TO SITE AND AGAIN AT THE PROJECT SITE PRIOR TO PLANTING.
13. VERIFY ALL EXISTING UTILITY LINES PRIOR TO PLANTING AND REPORT ANY CONFLICTS TO THE OWNER OR HIS REPRESENTATIVE.
14. NO PLANTING SHALL OCCUR PRIOR TO ACCEPTANCE OF FINAL GRADING.
15. INSTALL PLANTS WITH ROOT FLARES FLUSH WITH GRADE. IMMEDIATELY REPLANT PLANTS WHICH SETTLE OUT OF PLUMB OR BELOW FINISH GRADE.
16. SEE SPECIFICATIONS FOR PLANTING MAINTENANCE AND GUARANTEE REQUIREMENTS.
17. THE LANDSCAPE ARCHITECT OR ENGINEER RESERVES THE RIGHT TO ADJUST FINAL GRADES IN THE FIELD TO SAVE EXISTING VEGETATION.
18. PLANT QUANTITIES NOTED IN THE PLANT SCHEDULE ARE APPROXIMATE AND ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FURNISHING AND INSTALLATION OF ALL PLANT MATERIALS NOTED ON THE PLANTING PLAN.
19. PROVIDE FOUR (4) FOOT DIAMETER MULCH CIRCLE AROUND ALL INDIVIDUAL TREE PLANTINGS AND CONTINUOUS MULCH BED AROUND SHRUB, PERENNIAL AND GROUNDCOVER PLANTINGS, UNLESS OTHERWISE NOTED. DO NOT MOUND SOIL OR MULCH AT TRUNKS.
20. LOOSE OR CRACKED ROOTBALLS SHALL BE REJECTED.
21. UNLESS OTHERWISE INDICATED, ALL DISTURBED AREAS SHALL BE RESTORED WITH SIX (6) INCHES OF LOAM, SEEDED, AMENDED, AND/OR MULCHED. PROVIDE ADDITIONAL EROSION CONTROLS AS REQUIRED.
22. ALL SEEDED AREAS SHALL BE WATERED AND MAINTAINED UNTIL A UNIFORM TURF IS ESTABLISHED AND APPROVED BY THE OWNERS REPRESENTATIVE.
23. THE CONTRACTOR SHALL MAINTAIN ALL PLANTINGS FOR A PERIOD OF 60 DAYS FROM THE DATE OF APPROVAL OF COMPLETED PLANTING INSTALLATION. PRIOR TO CLOSE OF MAINTENANCE PERIOD THE CONTRACTOR SHALL REQUEST REVIEW OF COMPLETED PLANTINGS FROM THE OWNERS REPRESENTATIVE. THE CONTRACTOR SHALL CORRECT ANY DEFICIENCIES PRIOR TO MAINTENANCE PERIOD APPROVAL.
24. ALL PLANTINGS SHALL RECEIVE THE EQUIVALENT OF ONE INCH OF RAIN PER WEEK DURING THE MAINTENANCE PERIOD. THE CONTRACTOR SHALL SUBMIT A WATERING SCHEDULE AT THE BEGINNING OF THE MAINTENANCE PERIOD, AND A WATERING LOG AT THE END OF THE MAINTENANCE PERIOD. ANY ADJUSTMENT TO WATERING MUST REFERENCE NWS REPORTS.
25. UPON COMPLETION OF MAINTENANCE PERIOD ALL PLANTINGS SHALL BE GUARANTEED FOR AN ESTABLISHMENT PERIOD OF 1 YEAR. THE CONTRACTOR SHALL PROVIDE WATER AND SUCH MAINTENANCE AS NEEDED TO ALLOW PLANTS TO ACHIEVE STABLE HEALTHY GROWTH DURING ESTABLISHMENT.
26. PRIOR TO FINAL APPROVAL THE CONTRACTOR SHALL REPLACE ANY PLANTING THAT FAILS TO MEET THE CONDITION APPROVED AT THE END OF THE MAINTENANCE PERIOD.

IRRIGATION NOTES:

1. THE CONTRACTOR SHALL DESIGN, FURNISH, AND INSTALL A DRIP IRRIGATION SYSTEM TO THE LIMITS SHOWN SUITABLE FOR THE PROPOSED PLANTINGS AND SOIL AND CLIMATE CONDITIONS OF THE SITE. DESIGN SHALL BE PROVIDED BY QUALIFIED IRRIGATION SYSTEM DESIGNER WITH MINIMUM 5-YEARS EXPERIENCE DESIGNING IRRIGATION SYSTEMS OF SIMILAR SIZE AND SCOPE. PROVIDE DESIGN FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT.
2. IRRIGATION SYSTEM SHALL INCLUDE CONNECTION TO WATER SUPPLY, PRESSURE VERIFICATION, CONTROLLER INSTALLATION, RAIN SENSOR INSTALLATION, VALVES, SPRINKLERS, PIPE, WIRE, AND ALL RELATED ITEMS REQUIRED TO INSTALL A COMPLETE AND FUNCTIONING IRRIGATION SYSTEM.
3. SYSTEM SHALL BE SPLIT INTO APPROPRIATE ZONES TO ALLOW OPERATOR FULL RANGE OF CONTROL OVER AREAS TO BE IRRIGATED.
4. SYSTEM DESIGN SHALL ACCOMMODATE EXPANSION FOR FUTURE PHASES OF WORK.

LEGEND

- LIMIT PHASE 1 IRRIGATION
- CONCRETE
- BITUMINOUS SIDEWALK
- STONEDUST WALK
- PAVERS
- STAMPED ASPHALT
- GRASSCRETE FIRE LANE



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**BSC GROUP**  
 803 Summer Street  
 Boston, Massachusetts  
 02127  
 617.896.4300

Proposed Design for:  
**Woodland Cove**  
**Phase I**  
 Buildings E, F, & COMMUNITY BUILDING  
 3102 Cranberry Highway  
 Wareham, MA 02532



SHEET CONTENTS:

LANDSCAPE PLAN  
 (OVERALL)

PROJECT # 8-3669.00

DATE: 9/22/2020  
 REVISED DATE:  
 REVISED: 02/16/2021

SCALE: 1" = 50'  
 0 25 50 100

**L-100**

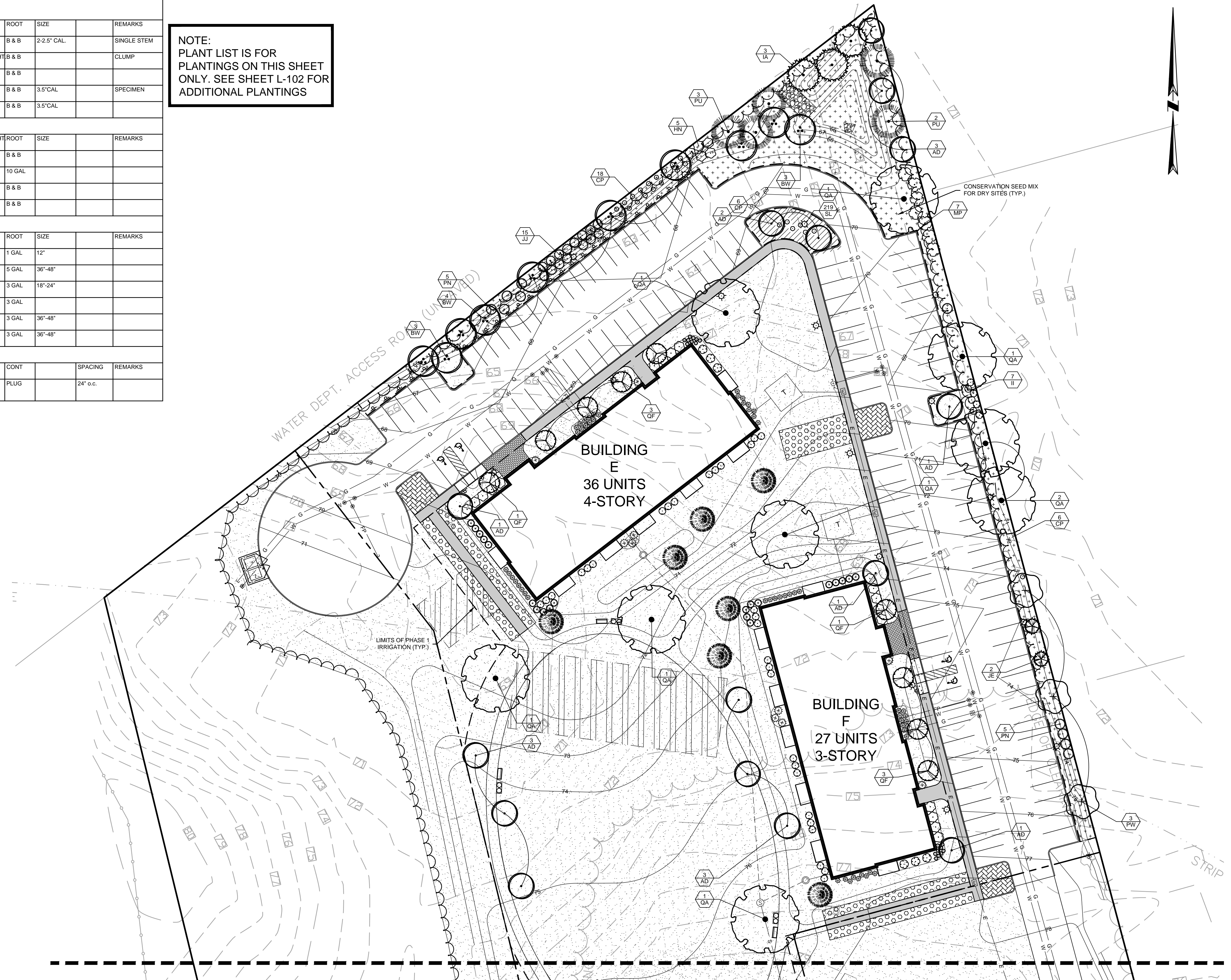
CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021



PLANT SCHEDULE NORTH

DECIDUOUS TREES	QTY	BOTANICAL NAME / COMMON NAME	ROOT	SIZE	REMARKS	
AD	15	AMELANCHIER ARBOREA / DOWNY SERVICEBERRY	B & B	2-2.5' CAL.	SINGLE STEM	
BW	10	BETULA POPULIFOLIA 'WHITESPIRE' / WHITESPIRE BIRCH	8-10' HT	B & B	CLUMP	
PW	3	PRUNUS SEROTINA / WILD BLACK CHERRY	B & B			
QA	9	QUERCUS ALBA / WHITE OAK	B & B	3.5' CAL.	SPECIMEN	
QF	4	QUERCUS ROBUR 'FASTIGIATA' / PYRAMIDAL ENGLISH OAK	B & B	3.5' CAL.		
EVERGREEN TREES	QTY	BOTANICAL NAME / COMMON NAME	8-10' HT	ROOT	SIZE	REMARKS
IA	3	ILEX OPACA / AMERICAN HOLLY	B & B			
JE	2	JUNIPERUS VIRGINIANA / EASTERN RED CEDAR	10 GAL			
PF	7	PINUS FLEXILIS 'VANDERWOLF'S PYRAMID' / VANDERWOLF'S PYRAMID PINE	B & B			
PU	5	PINUS STROBUS 'UCONN' / UCONN WHITE PINE	B & B			
SHRUBS	QTY	BOTANICAL NAME / COMMON NAME	ROOT	SIZE	REMARKS	
CP	30	COMPTONIA PEREGRINA / SWEET FERN	1 GAL	12"		
HN	5	HYDRANGEA MACROPHYLLA 'NIKKO BLUE' / NIKKO BLUE HYDRANGEA	5 GAL	36"-48"		
II	7	ILEX GLABRA 'COMPACTA' / COMPACT INKBERRY	3 GAL	18"-24"		
JJ	15	JUNIPERUS PFITZERIANA 'SEA GREEN' / JUNIPER SEA GREEN	3 GAL			
MP	7	MYRICA PENNSYLVANICA / NORTHERN BAYBERRY	3 GAL	36"-48"		
PN	10	PHYSCARPUS OPULIFOLIUS / NINEBARK	3 GAL	36"-48"		
GRASSES	QTY	BOTANICAL NAME / COMMON NAME	CONT	SPACING	REMARKS	
	219	SCHIZACHYRIUM SCOPARIUM / LITTLE BLUESTEM GRASS	PLUG	24" o.c.		

NOTE:  
PLANT LIST IS FOR  
PLANTINGS ON THIS SHEET  
ONLY. SEE SHEET L-102 FOR  
ADDITIONAL PLANTINGS



LEGEND

	- LIMIT PHASE 1 IRRIGATION
	- CONCRETE
	- BITUMINOUS SIDEWALK
	- STONEDUST WALK
	- PAVERS
	- STAMPED ASPHALT
	- GRASSCRETE FIRE LANE

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**BSC GROUP**  
803 Summer Street  
Boston, Massachusetts  
02127  
617.896.4300

Proposed Design for:  
**Woodland Cove**  
**Phase I**  
Buildings E, F, & COMMUNITY BUILDING  
3102 Cranberry Highway  
Wareham, MA 02532



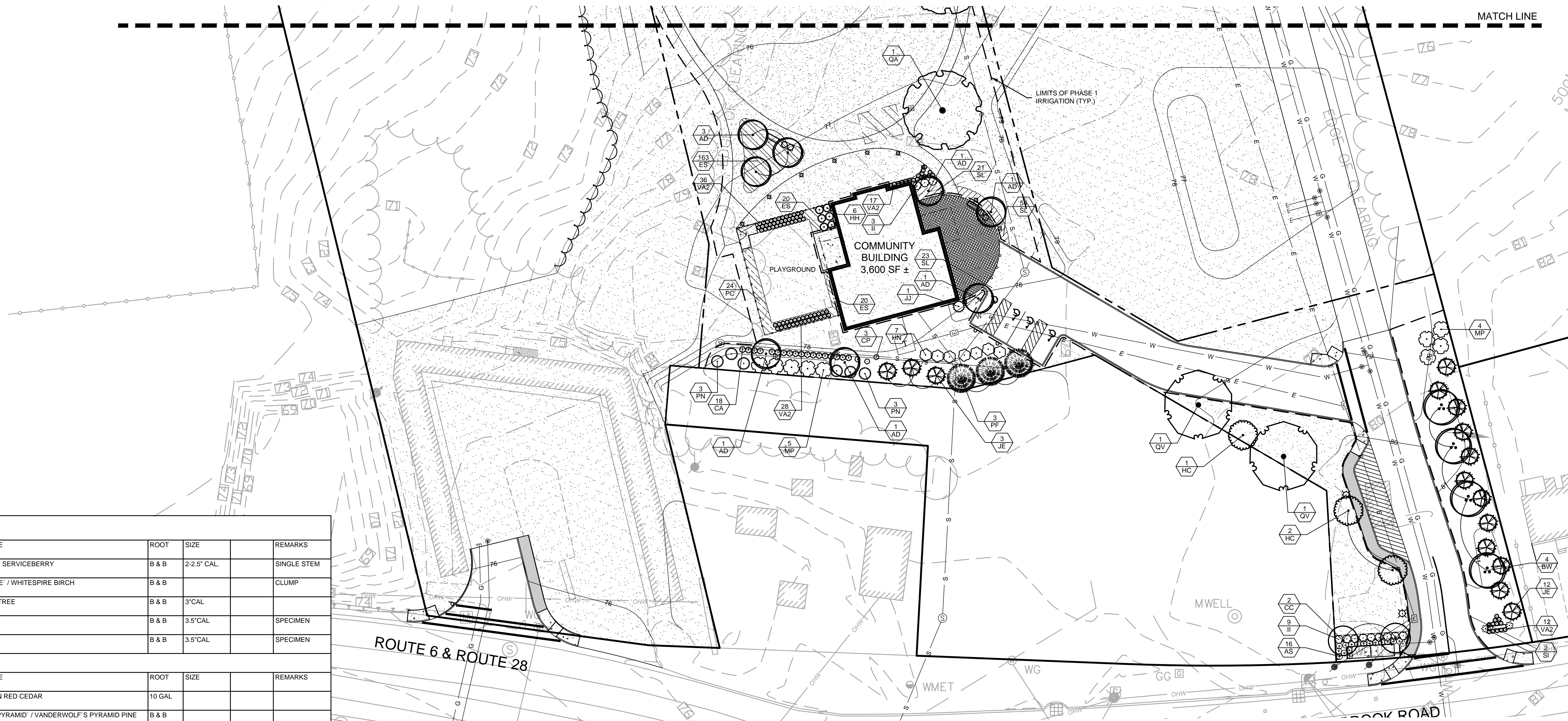
SHEET CONTENTS:  
  
LANDSCAPE PLAN  
(NORTH)

PROJECT # 8-3669.00  
DATE: 9/22/2020  
REVISED DATE:  
△ REVISED: 02/16/2021

SCALE: 1" = 30'  
0 15 30 60

**L-101**

CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021



**PLANT SCHEDULE SOUTH**

DECIDUOUS TREES	QTY	BOTANICAL NAME / COMMON NAME	ROOT	SIZE	REMARKS
AD	8	AMELANCHIER ARBOREA / DOWNY SERVICEBERRY	B & B	2-2.5' CAL.	SINGLE STEM
BW	4	BETULA POPULIFOLIA 'WHITESPIRE' / WHITESPIRE BIRCH	B & B		CLUMP
HC	3	HALESIA CAROLINA / SNOWDROP TREE	B & B	3' CAL.	
QA	1	QUERCUS ALBA / WHITE OAK	B & B	3.5' CAL.	SPECIMEN
OV	2	QUERCUS VELLUTINA / BLACK OAK	B & B	3.5' CAL.	SPECIMEN

EVERGREEN TREES	QTY	BOTANICAL NAME / COMMON NAME	ROOT	SIZE	REMARKS
JE	15	JUNIPERUS VIRGINIANA / EASTERN RED CEDAR	10 GAL		
PF	3	PINUS FLEXILIS 'VANDERWOLF'S PYRAMID' / VANDERWOLF'S PYRAMID PINE	B & B		

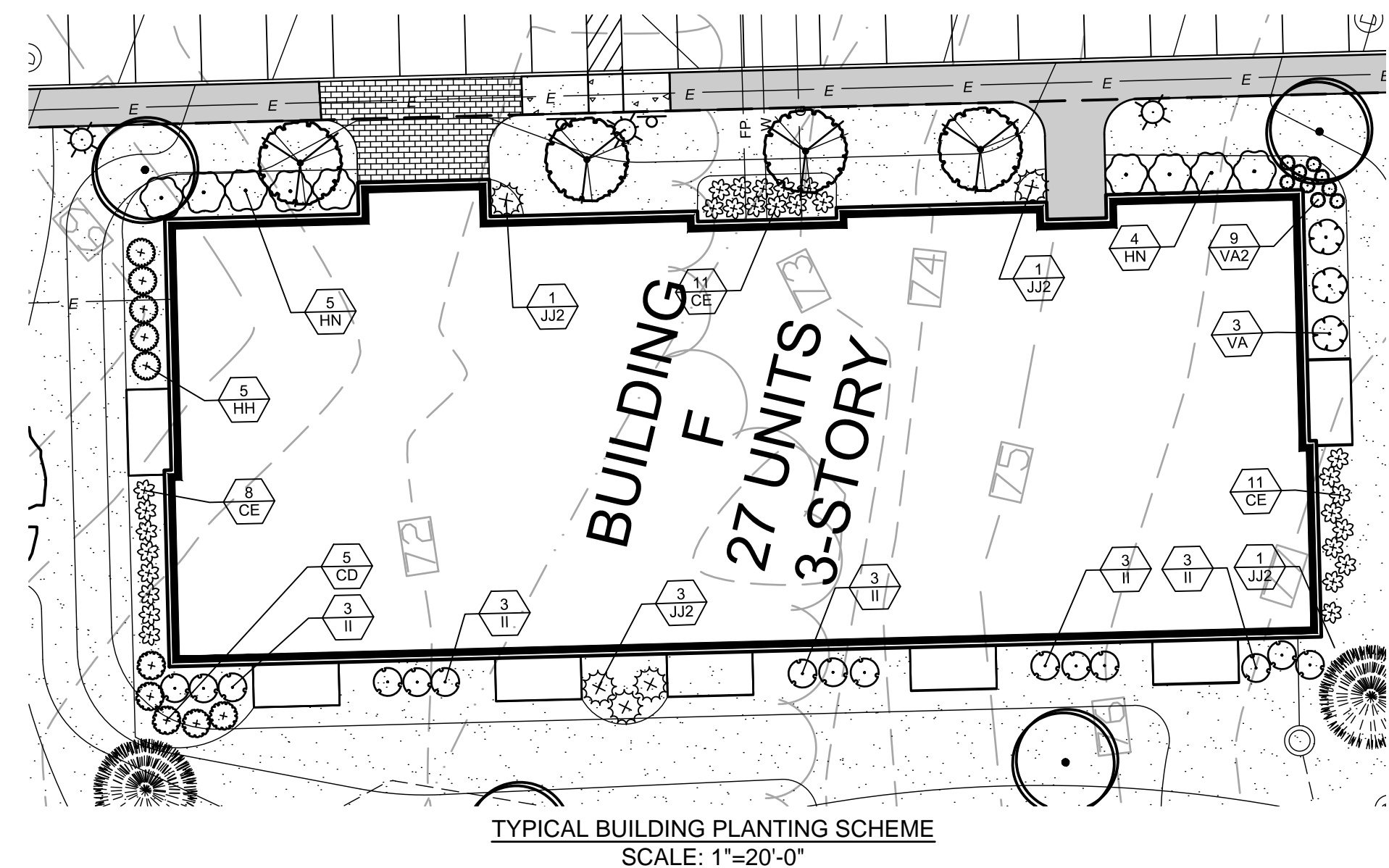
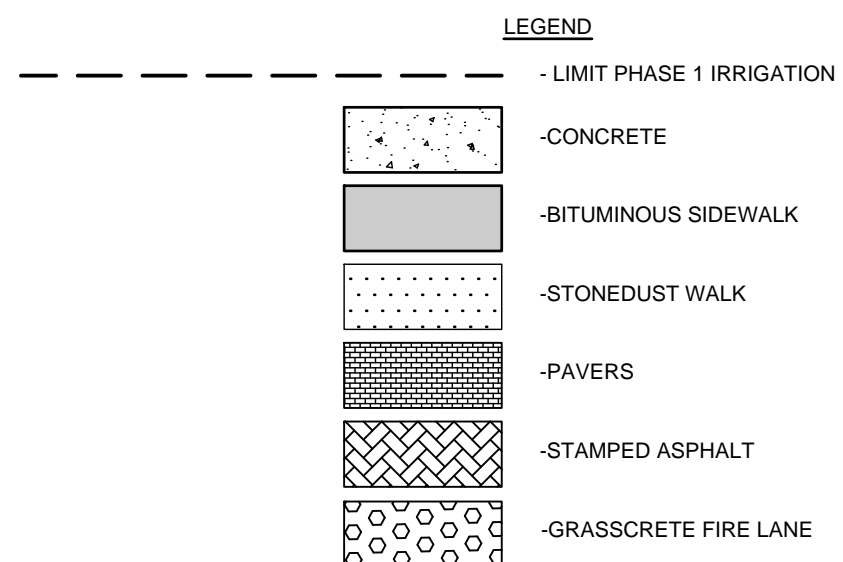
FLOWERING TREES	QTY	BOTANICAL NAME / COMMON NAME	ROOT	SIZE	REMARKS
CC	2	CORNUS FLORIDA 'CHEROKEE CHIEF' / CHEROKEE CHIEF DOGWOOD	B & B	2.5' CAL. 8-10' HT.	

SHRUBS	QTY	BOTANICAL NAME / COMMON NAME	ROOT	SIZE	REMARKS
CP	3	COMPTONIA PEREGRINA / SWEET FERN	1 GAL	12"	
CA	18	CORNUS SERICEA 'FARRO' / ARCTIC FIRE DOGWOOD	3 GAL	18"-24" 5-6' HT. 8-10' HT.	
HN	7	HYDRANGEA MACROPHYLLA 'NIKKO BLUE' / NIKKO BLUE HYDRANGEA	5 GAL	36"-48"	
HH	6	HYPERICUM X 'HIDCOTE' / HIDCOTE ST. JOHN'S WORT	3 GAL	15"-18"	
II	12	ILEX GLABRA 'COMPACTA' / COMPACT INKBERRY	3 GAL	18"-24"	
JJ	1	JUNIPERUS PFITZERIANA 'SEA GREEN' / JUNIPER SEA GREEN	3 GAL		
MP	9	MYRICA PENNSYLVANICA / NORTHERN BAYBERRY	3 GAL	36"-48"	
PN	6	PHYSOCARPUS OPULIFOLIUS / NINEBARK	3 GAL	36"-48"	
VA2	93	VACCINIUM ANGSTUFOLIUM / LOWBUSH BLUEBERRY	1 GAL	12"	

GRASSES	QTY	BOTANICAL NAME / COMMON NAME	ROOT	SIZE	REMARKS
AS	16	ANDROPOGON SCOPARIUS / LITTLE BLUE STEM	1 GAL		
SI	2	SORGHASTRUM NUTANS 'INDIAN STEEL' / INDIAN GRASS	1 GAL		

GRASSES	QTY	BOTANICAL NAME / COMMON NAME	CONT	SPACING	REMARKS
	203	ERAGROSTIS SPECTABILIS / PURPLE LOVE GRASS (LABEL 'ES')	PLUG	24" o.c.	
	24	PANICUM VIRGATUM 'CLOUD NINE' / TALL SWITCH GRASS (LABEL 'PC')	1 GAL	40" o.c.	
	98	SCHIZACHYRIUM SCOPARIUM / LITTLE BLUESTEM GRASS (LABEL 'SL')	PLUG	24" o.c.	

NOTE:  
PLANT LIST IS FOR  
PLANTINGS ON THIS SHEET  
ONLY. SEE SHEET L-101 FOR  
ADDITIONAL PLANTINGS



**PLANT SCHEDULE TYP BLDG LAYOUT**

SHRUBS	QTY	BOTANICAL NAME	ROOT	SIZE	REMARKS
CD	5	CALLYCARPA DICHOTOMA BEAUTYBERRY	3 GAL	2-2.5' HT	
CE	30	CEANOTHUS AMERICANUS NEW JERSEY TEA	1 GAL		
HN	9	HYDRANGEA MACROPHYLLA 'NIKKO BLUE' / NIKKO BLUE HYDRANGEA	5 GAL	36"-48"	
HH	5	HYPERICUM X 'HIDCOTE' / HIDCOTE ST. JOHN'S WORT	3 GAL	15"-18"	
II	15	ILEX GLABRA 'COMPACTA' / COMPACT INKBERRY	3 GAL	18"-24"	
JJ2	6	JUNIPERUS COMMUNIS JUNIPER	B & B		
VA2	9	VACCINIUM ANGSTUFOLIUM LOWBUSH BLUEBERRY	1 GAL	12"	
VA	3	VIBURNUM DENTATUM VIBURNUM	3 GAL	24"-36"	

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CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

**BSC GROUP**  
803 Summer Street  
Boston, Massachusetts  
02127  
617.896.4300

Proposed Design for  
**Woodland Cove**  
**Phase I**  
Buildings E, F, & COMMUNITY BUILDING  
3102 Cranberry Highway  
Wareham, MA 02532



SHEET CONTENTS:

LANDSCAPE PLAN (SOUTH)

PROJECT # 8-3669.00

DATE: 9/22/2020

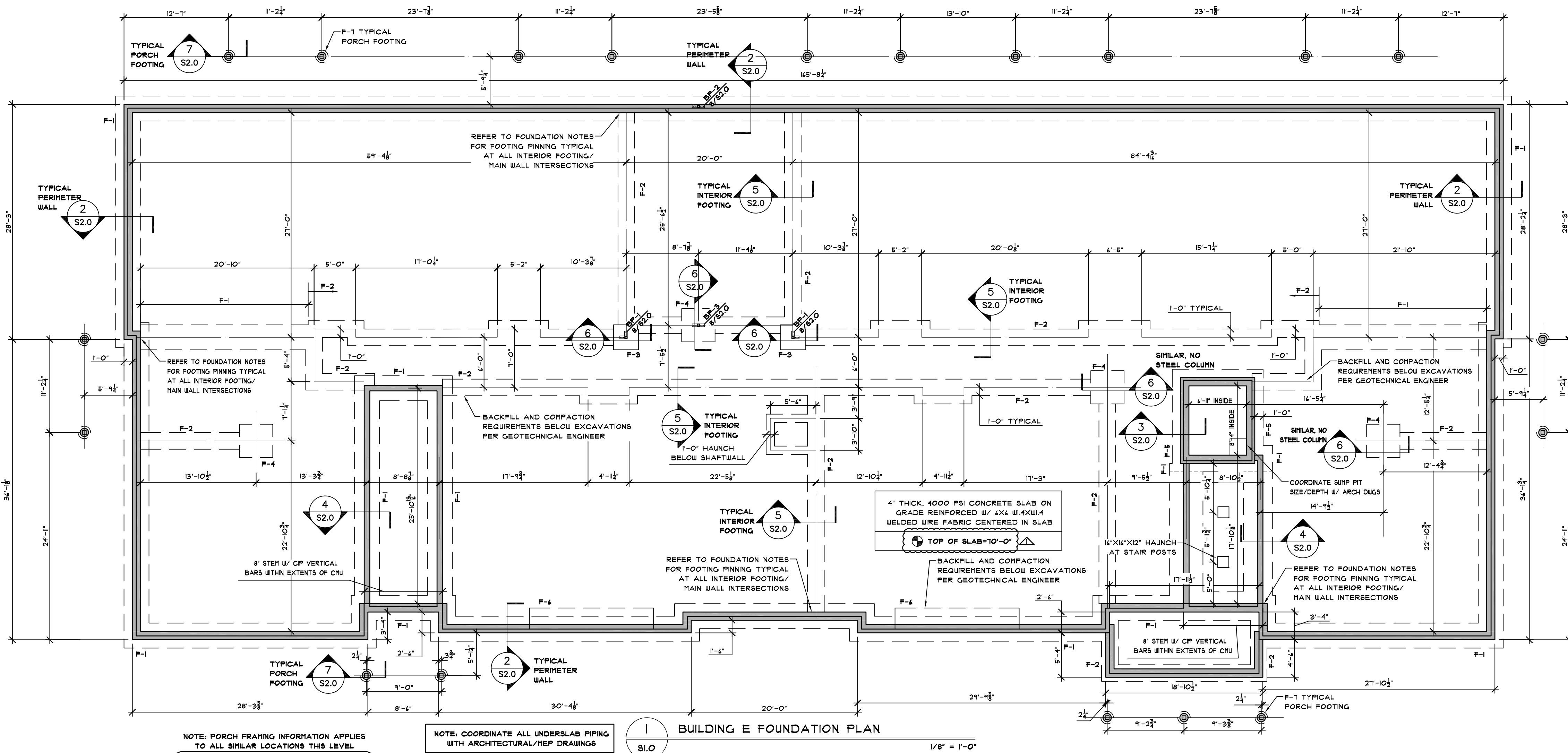
REVISED DATE:

▲ REVISED: 02/16/2021

SCALE: 1" = 30'



**L-102**



- FOOTING/FOUNDATION PLAN NOTES:**
- SUBGRADE QUALITY AND PREPARATION TO BE DETERMINED BY THE PROJECT GEOTECHNICAL ENGINEER. COORDINATE ALL SUBGRADE WORK WITH ASSOCIATED INSPECTORS.
  - REFER TO STATEMENT OF SPECIAL INSPECTIONS FOR ALL INSPECTION REQUIREMENTS.
  - A MAXIMUM DESIGN SOIL BEARING PRESSURE OF 2000 PSF HAS BEEN USED FOR THE DESIGN OF FOOTINGS. GEOTECHNICAL ENGINEER TO CONFIRM SUBGRADE CAPACITY.
  - PROVIDE CORNERBARS AT ALL CORNERS IN CONTINUATION OF ALL REINFORCING DETAILS. LAP ALL BARS 24" MIN.
  - PERFORM CONCRETE WORK IN ACCORDANCE WITH ACI 301. REFER TO THE SPECIFICATIONS FOR COLD WEATHER AND OTHER CONCRETE REQUIREMENTS.
  - ALL CONCRETE FOOTINGS AND FOUNDATION WALLS TO BE 3000 PSI AT 28 DAYS. ALL CONCRETE SLABS ARE TO BE 4000 PSI CONCRETE AT 28 DAYS. MAINTAIN MOISTURE IN CONCRETE FOR A MINIMUM OF 12 HOURS.
  - ALL REINFORCING BARS ARE TO BE ASTM A65 GRADE 60 STEEL.
  - ALL WELDED WIRE FABRIC TO BE ASTM A185.
  - WHERE INTERIOR FOOTINGS INTERSECT WITH MAIN FOUNDATION WALL, PIN FOOTING TO WALL WITH (3) #5 X 24" BARS EMBEDDED 4" INTO MAIN WALL IN EPOXY.

**FOOTING SCHEDULE**

MARK	SIZE	REINFORCING
F-1	3'-0" WIDE X 1'-0" THICK, CONTINUOUS	(3) #5 BARS CONTINUOUS
F-2	2'-0" WIDE X 1'-0" THICK, CONTINUOUS	(3) #5 BARS CONTINUOUS
F-3	3'-0" X 3'-0" X 1'-0" THICK	(4) #5 BARS EACH WAY, 3" COVER FROM BOTTOM OF FOOTING
F-4	4'-0" X 4'-0" X 1'-0" THICK	(5) #5 BARS EACH WAY, 3" COVER FROM BOTTOM OF FOOTING
F-5	10'-11" X 12'-4" X 1'-0" THICK	#5 # 14" O.C. EACH WAY, 3" COVER FROM BOTTOM OF FOOTING
F-6	2'-4" WIDE X 1'-0" THICK, CONTINUOUS	(3) #5 BARS CONTINUOUS
F-7	12" DIAMETER PIER FLARED TO 20" MIN AT BASE	(4) VERTICAL EACH QUADRANT

- GENERAL STRUCTURAL NOTES:**
- ALL WORK IS TO BE DONE IN ACCORDANCE WITH THE MASSACHUSETTS STATE BUILDING CODE AND ASSOCIATED MA AMENDMENTS (2015 IBC).
  - COORDINATE ALL DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS.
  - ALL SUBGRADE AND UNDERSLAB SOIL PREPARATION TO BE DIRECTED AND INSPECTED BY THE PROJECT GEOTECHNICAL ENGINEER AND ASSOCIATED INSPECTORS.
  - REFER TO THE STATEMENT OF SPECIAL INSPECTIONS FOR ALL INSPECTION TASKS. TESTING SCHEDULING IS SOLELY THE RESPONSIBILITY OF THE CLIENT/CONTRACTOR. TESTING NOT COMPLETED BY THE CONTRACTOR SHALL REQUIRE THE CONTRACTOR TO REMOVE ANY PROGRESSION OF WORK TO EXPOSE ELEMENTS NECESSARY TO PERFORM THE PRESCRIBED TESTING, PERFORM DESTRUCTIVE TESTING, OR RETAIN A THIRD PARTY ENGINEER AT THEIR COST TO CERTIFY COMPLETED WORK IN QUESTION. ANY FAILED TESTING RESULTS SHALL REQUIRE THE CONTRACTOR TO CORRECT THE ISSUE AND RESUBMIT INSPECTION REPORTS SHOWING COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS OR PROVIDE CERTIFICATION OF A THIRD PARTY ENGINEER IF COMPLIANCE IS NOT MET.
  - REFER TO SPECIFICATIONS FOR ALL MATERIAL GRADES.
  - PROVIDE SUBMITTALS FOR REVIEW FOR ALL ROOF AND FLOOR TRUSSES, CONVENTIONAL AND ENGINEERED WOOD FRAMING, SHEATHING, CONCRETE MIX DESIGNS, CONCRETE REINFORCING, AND MISCELLANEOUS HARDWARE.
  - ALL WOOD STUD BEARING WALLS ARE SHOWN SHADED ON THE FRAMING PLANS.
  - ALL LUMBER MUST HAVE A MOISTURE CONTENT OF 1% MAX AT THE TIME OF DELIVERY AND SHALL BE STORED OFF THE GROUND AND COVERED ON SITE PRIOR TO BEING INSTALLED. INSTALL ALL NON BEARING PARTITIONS TO ACCOMMODATE SHRINKAGE OF 1/8" AT EACH LEVEL.
  - ALL POSTS LOCATED WITHIN WALLS MUST BE BRACED BY FASTENING THROUGH WALL SHEATHING 8d NAILS AT 4' O.C.
  - ALL FLOOR AND ROOF BEAMS MUST BE LATERALLY BRACED ALONG THE TOP EDGE BY FASTENING THROUGH THE FLOOR OR ROOF SHEATHING W/ 8d NAILS # 4" O.C.
  - REFER TO SHEAR WALL PLAN AND NOTES ON S1.2 AND S1.4 FOR SHEAR WALL LOCATIONS, CONSTRUCTION AND HOLDOWN REQUIREMENTS.

**Ed Wojcik**  
architect, ltd  
One Richmond Square  
Providence, RI 02906  
401-861-7139

**YODER + TIDWELL**  
engineers  
333 Smith Street  
Providence, RI 02908  
401-753-2468 (ext)  
401-274-7317 (fax)  
www.yoder-tidwell.com

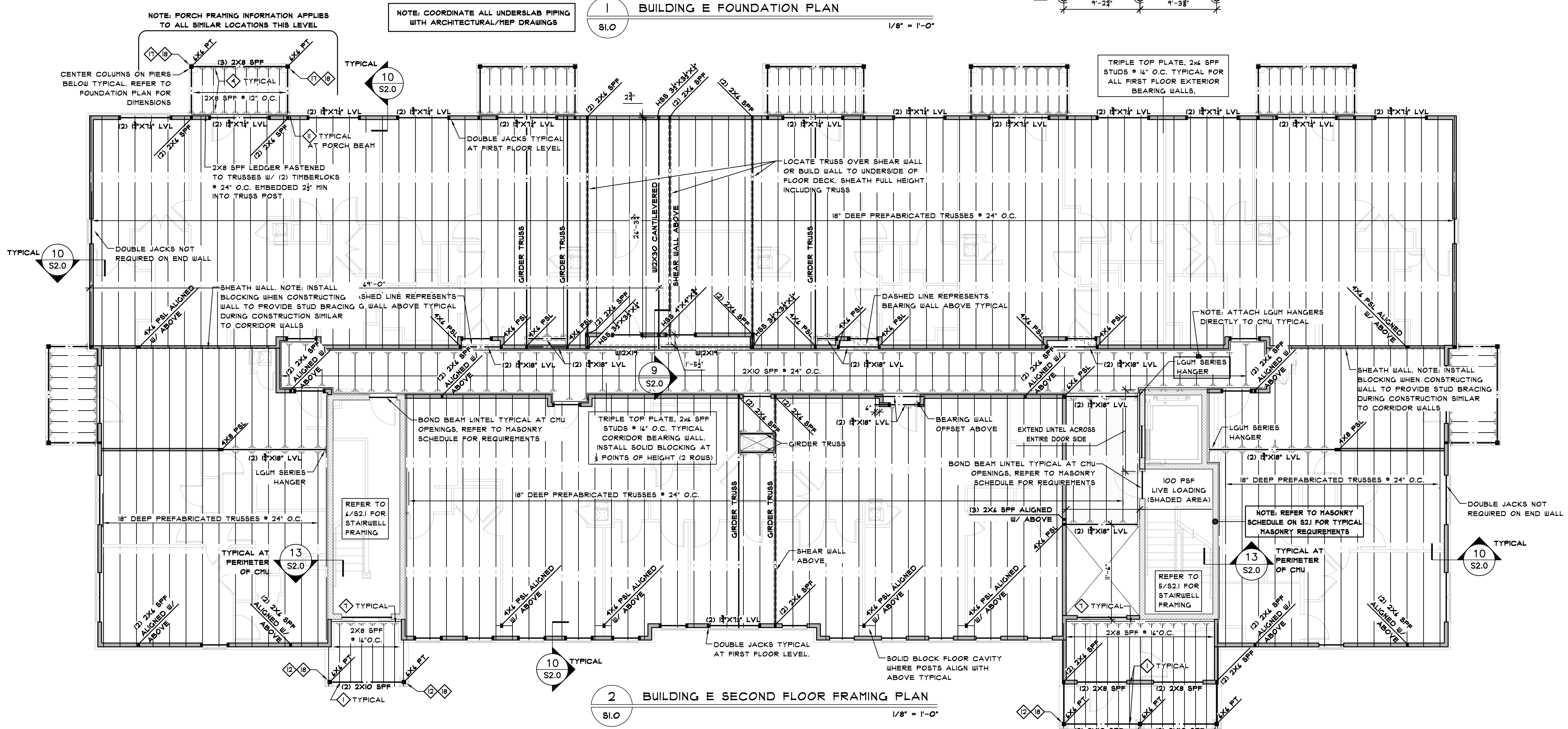
Proposed Design for:  
**Woodland Cove**  
**Phase I**  
Buildings E, F, & COMMUNITY BUILDING  
3102 Cranberry Highway  
Wareham, MA 02532



**SHEET CONTENTS:**  
BLDG E FNDN/  
SECOND FLOOR  
FRAMING PLAN

PROJECT # 1420  
DATE: 9/22/2020  
REVISED DATE:  
REVISED: 02/16/2021

**S1.0**



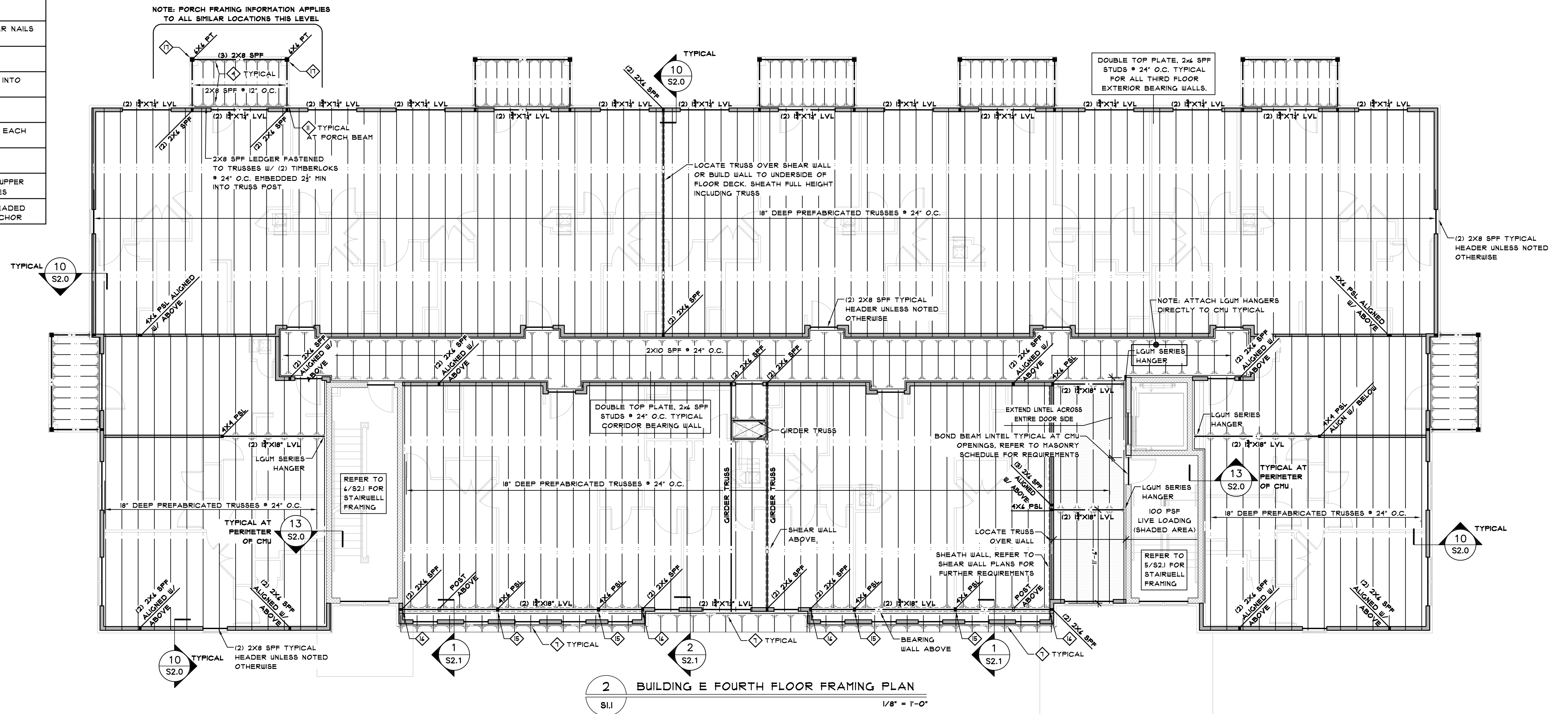
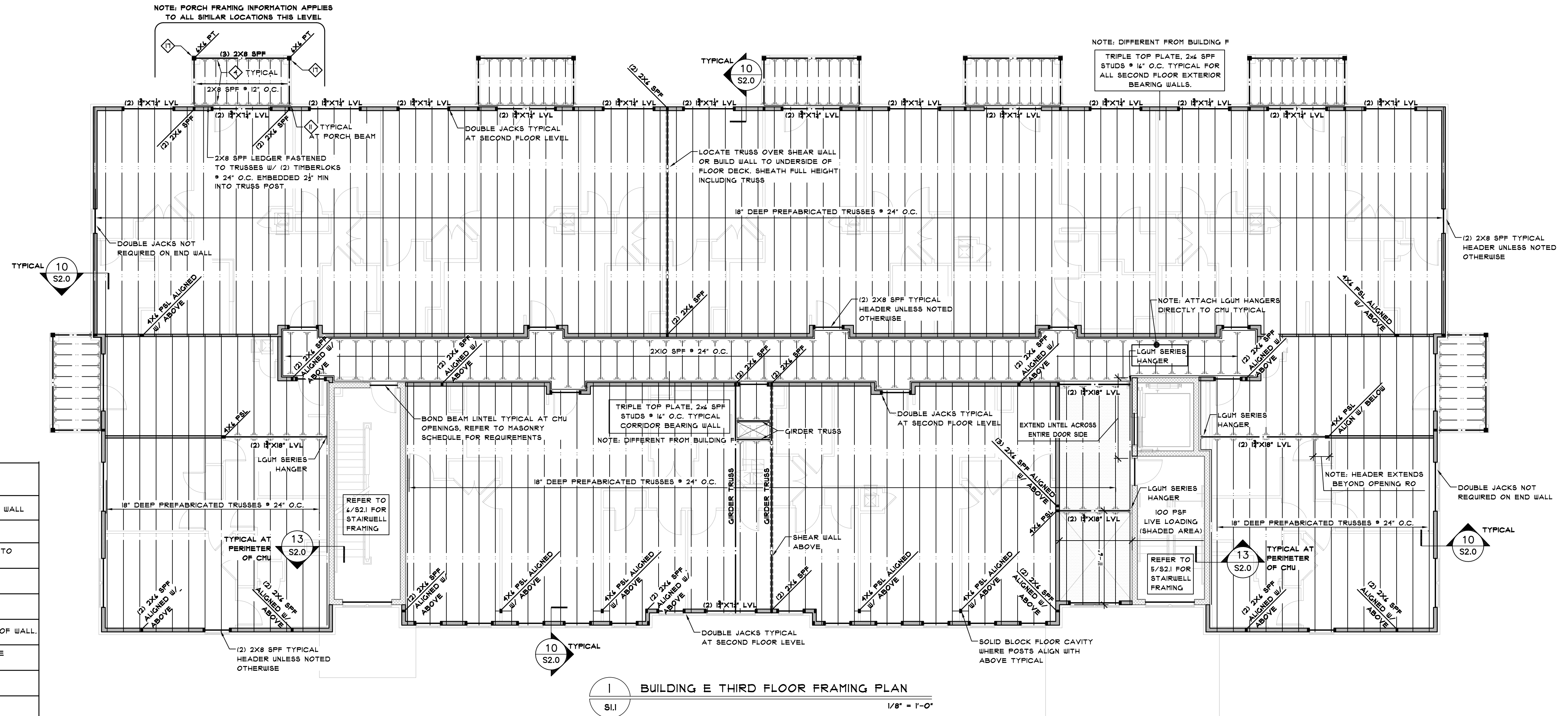
**DESIGN LOADS**

SNOW: 30 PSF  
FLOOR LIVE: PRIVATE ROOMS AND CORRIDORS SERVING THEM; 40 PSF  
LOBBY; 100 PSF  
DEAD LOAD:  
ROOF: 15 PSF  
FLOOR: 15 PSF + 1.5 PSF (CONCRETE)  
DEFLECTION:  
ROOF LIVE: L/360, TOTAL: L/240  
FLOOR LIVE: L/400, TOTAL: L/240  
RISK CATEGORY II  
WIND: 138 MPH EXPOSURE B  
SEISMIC: CLASS II, S<sub>w</sub>=0.173, S<sub>i</sub>=0.059  
FROST DEPTH: 4'-0"

CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

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HOLDOWN SCHEDULE		
1	SIMPSON H2.5A	TRUSS TO WALL TYPICAL. INSTALL ON SHEATHED SIDE OF WALL
2	(2) TIMBERLOKS	TRUSS TO WALL. REFER TO DETAIL 12/S2.0
3	(2) SIMPSON SDUC1450	THIRD FLOOR STUD TO TOP AND BOTTOM PLATES. REFER TO DETAIL 12/S2.0
4	SIMPSON LUS SERIES HANGERS	FLOOR/ROOF JOIST TO BEAM/ LEDGER. INSTALL ALL SIDE SHEAR NAILS INTO JOIST
5	SIMPSON LGT HOLDOWN	GIRDER TRUSS TO POST BELOW
6	SIMPSON TS22 TWIST STRAP	HIP TRUSS TO POST BELOW. INSTALL ON SHEATHED SIDE OF WALL
7	SIMPSON LUS SERIES HANGERS	JACK TRUSS TO GIRDER TRUSS/LEDGER. INSTALL ALL SIDE SHEAR NAILS INTO HANGER
8	SIMPSON HJ OR HUC SERIES HANGER	ROOF BEAM TO CMU. FASTEN HANGER $\frac{3}{4}$ " x 2" TITEN 2 MASONRY SCREWS
9	SIMPSON T918 TWIST STRAP	ROOF/FLOOR BEAM TO POST BELOW
10	SIMPSON HGAKT	ROOF BEAM TO PT PLATES APPLIED TO ONE SIDE.
11	SIMPSON HUC SERIES HANGER	PORCH BEAM TO POST IN WALL. INSTALL ALL SIDE SHEAR NAILS INTO PORCH BEAM
12	SIMPSON LCE SERIES POST CAP	EACH PORCH BEAM TO PT POST.
13	SIMPSON HUC SERIES HANGER	PORCH BEAM TO POST. INSTALL ALL SIDE SHEAR NAILS INTO PORCH BEAM
14	SIMPSON LS10 ONE SIDE	RAFTER TO ROOF BEAM
15	SIMPSON MST134 STEEL STRAP	FLOOR BEAM TO PSL POST IN WALL. CENTER STRAP ON EACH MEMBER.
16	(2) SIMPSON TS22 TWIST STRAP	FLOOR BEAM TO POST IN WALL
17	SIMPSON ST4234 STRAP	UPPER POST TO LOWER POST. CENTER STRAP ON BEAM, LAP UPPER POST/LOWER POST EQUALLY. INSTALL FASTENERS IN ALL HOLES
18	SIMPSON ABU SERIES POST BASE	PT POST TO CONCRETE PIER. EMBED $\frac{3}{4}$ " DIA GALV THREADED ROD 4" MIN IN EPOXY OR CAST IN PLACE 12" LONG J ANCHOR



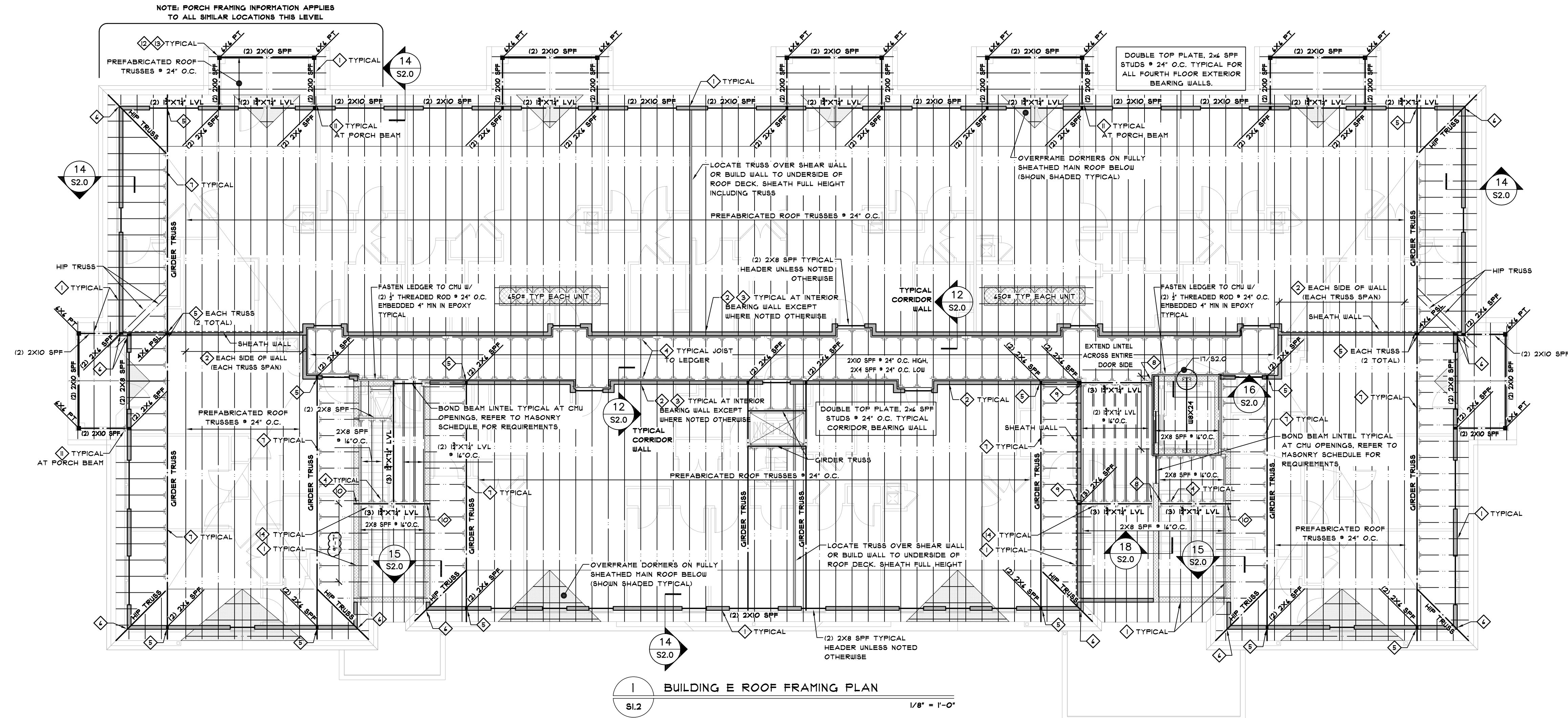
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CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021



SHEET CONTENTS:  
BLDG E THIRD/FOURTH  
FLOOR FRAMING PLANS

PROJECT # 1420  
DATE: 9/22/2020  
REVISED DATE:  
REVISED: 02/16/2021



1 BUILDING E ROOF FRAMING PLAN  
S1.2 1/8" = 1'-0"

HOLDOWN SCHEDULE		
1	SIMPSON H2.5A	TRUSS TO WALL TYPICAL. INSTALL ON SHEATHED SIDE OF WALL
2	(2) TIMBERLOKS	TRUSS TO WALL. REFER TO DETAIL 12/S2.0
3	(2) SIMPSON SDWC15450	THIRD FLOOR STUD TO TOP AND BOTTOM PLATES. REFER TO DETAIL 12/S2.0
4	SIMPSON LUS SERIES HANGERS	FLOOR/ROOF JOIST TO BEAM/ LEDGER. INSTALL ALL SIDE SHEAR NAILS INTO JOIST
5	SIMPSON LGT HOLDOWN	GIRDER TRUSS TO POST BELOW
6	SIMPSON TS22 TWIST STRAP	HIP TRUSS TO POST BELOW. INSTALL ON SHEATHED SIDE OF WALL
7	SIMPSON LUS SERIES HANGERS	JACK TRUSS TO GIRDER TRUSS/LEDGER. INSTALL ALL SIDE SHEAR NAILS INTO HANGER
8	SIMPSON HU OR HUC SERIES HANGER	ROOF BEAM TO CHU. FASTEN HANGER W/ 1/2"x2 1/2" TITEN 2 MASONRY SCREWS
9	SIMPSON TS18 TWIST STRAP	ROOF/FLOOR BEAM TO POST BELOW.
10	SIMPSON HGAKT	ROOF BEAM TO PT PLATES APPLIED TO ONE SIDE.
11	SIMPSON HUC SERIES HANGER	PORCH BEAM TO POST IN WALL. INSTALL ALL SIDE SHEAR NAILS INTO PORCH BEAM
12	SIMPSON LCE SERIES POST CAP	EACH PORCH BEAM TO PT POST.
13	SIMPSON HUC SERIES HANGER	PORCH BEAM TO POST. INSTALL ALL SIDE SHEAR NAILS INTO PORCH BEAM
14	SIMPSON L510 ONE SIDE	RAFTER TO ROOF BEAM
15	SIMPSON MST134 STEEL STRAP	FLOOR BEAM TO PSL POST IN WALL. CENTER STRAP ON EACH MEMBER.
16	(2) SIMPSON TS22 TWIST STRAP	FLOOR BEAM TO POST IN WALL
17	SIMPSON ST4234 STRAP	UPPER POST TO LOWER POST. CENTER STRAP ON BEAM. LAP UPPER POST/LOWER POST EQUALLY. INSTALL FASTENERS IN ALL HOLES
18	SIMPSON ABU SERIES POST BASE	PT POST TO CONCRETE PIER. EMBED 3/4" DIA GALV THREADED ROD 4" MIN IN EPOXY OR CAST IN PLACE 12" LONG J ANCHOR

**WIND CONSTRUCTION REQUIREMENTS.**

**CONTINUOUS LOAD PATH.**

- ALL ROOF FRAMING ELEMENTS ARE SUBJECT TO WIND UPLIFT AND MUST BE ANCHORED TO THE STRUCTURE WITH SUPPLEMENTAL HARDWARE OR OTHER MEANS AS SPECIFIED IN THE PLANS. ADDITIONALLY, A CONTINUOUS LOAD PATH MUST BE MAINTAINED FROM THE ROOF LEVEL TO THE FOUNDATION VIA PLYWOOD WALL SHEATHING ON THE EXTERIOR WALLS. SEE NOTES BELOW FOR PLYWOOD LAPPING AND FASTENING REQUIREMENTS.

**EXTERIOR WALL SHEATHING REQUIREMENTS.**

- ALL SHEATHING MUST BE 1/2" STRUCTURAL I SHEATHING AND RUN HORIZONTALLY (PERPENDICULAR TO FRAMING).
- SHEATHING MUST LAP ONTO ANY WALL STUD 12" MINIMUM FROM THE TOP OR BOTTOM PLATES. REFER TO SHEAR WALL NOTES FOR FASTENING REQUIREMENTS.
- AT INTERMEDIATE FLOOR LEVEL, LAP SHEATHING SUCH THAT THE JOINT IS CENTERED ON THE 2X8 TRUSS BAND. REFER TO 10/S2.0.
- FASTEN ALL SHEATHING EDGES TO TOP, BOTTOM, AND SILL PLATES WITH 8d NAILS @ 4" O.C.
- REFER TO THE SHEAR WALL PLAN ON S1.2 AND S1.4 FOR ADDITIONAL FRAMING/ SHEATHING/ FASTENING REQUIREMENTS.

**FLOOR SHEATHING.**

- USE 3/4" TIG STRUCTURAL I SHEATHING.
- FASTEN TO FLOOR FRAMING WITH 8d RING NAILS AND CONSTRUCTION ADHESIVE
- FASTENING SPACING:
  - WITHIN 8" OF ANY EXTERIOR WALL; NAIL AT 4" O.C. ALONG PLYWOOD ENDS, 4" O.C. FIELD
  - INBOARD OF 8" PERIMETER; NAIL AT 4" O.C. ON ENDS, 12" O.C. FIELD.

**ROOF SHEATHING.**

- 1/2" TIG CDX STRUCTURAL I SHEATHING.
- FASTEN ROOF SHEATHING TO FRAMING WITH 8d NAILS.
- FASTENER SPACING:
  - WITHIN 4" OF ANY EXTERIOR WALL OR RIDGE; FASTEN WITH 8d NAILS @ 4" O.C. AT EDGES, 4" O.C. FIELD, ON GABLE END RAKE OR RIDGE; 4" O.C. ALONG ENTIRE RUN.
  - INBOARD OF 4" PERIMETER; 4" O.C. ENDS, 12" O.C. INTERMEDIATE.

**SHEAR WALL PLAN NOTES**

- ALL DESIGNATED SHEAR WALLS ARE TO HAVE SOLID BLOCKING INSTALLED BETWEEN STUDS ALONG ALL HORIZONTAL SHEATHING EDGES AND FASTENED WITH 8d NAILS PER THE SHEAR WALL SCHEDULE.
- ALL SHEAR WALLS TO HAVE A DOUBLE STUD EACH END. REFER TO THE SHEAR WALL PLAN FOR LOCATIONS.
- HDU HOLDOWNS ARE TO BE EPOXY ANCHORED DIRECTLY INTO THE FOUNDATION WALL. MINIMUM EMBEDMENT FOR ALL 1/2" DIA THREADED RODS IN EPOXY TO BE 8".
- REFER TO MASONRY SCHEDULE FOR CHU SHEAR WALL CONSTRUCTION REQUIREMENTS

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CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

**Ed Wojcik**  
architect, ltd  
One Richmond Square  
Providence, RI 02906  
401-861-7139

**YODER + TIDWELL**  
engineers  
333 South Street  
Providence, RI 02908  
401-753-2468 (ext)  
401-274-7317 (fax)  
www.yoder-tidwell.com

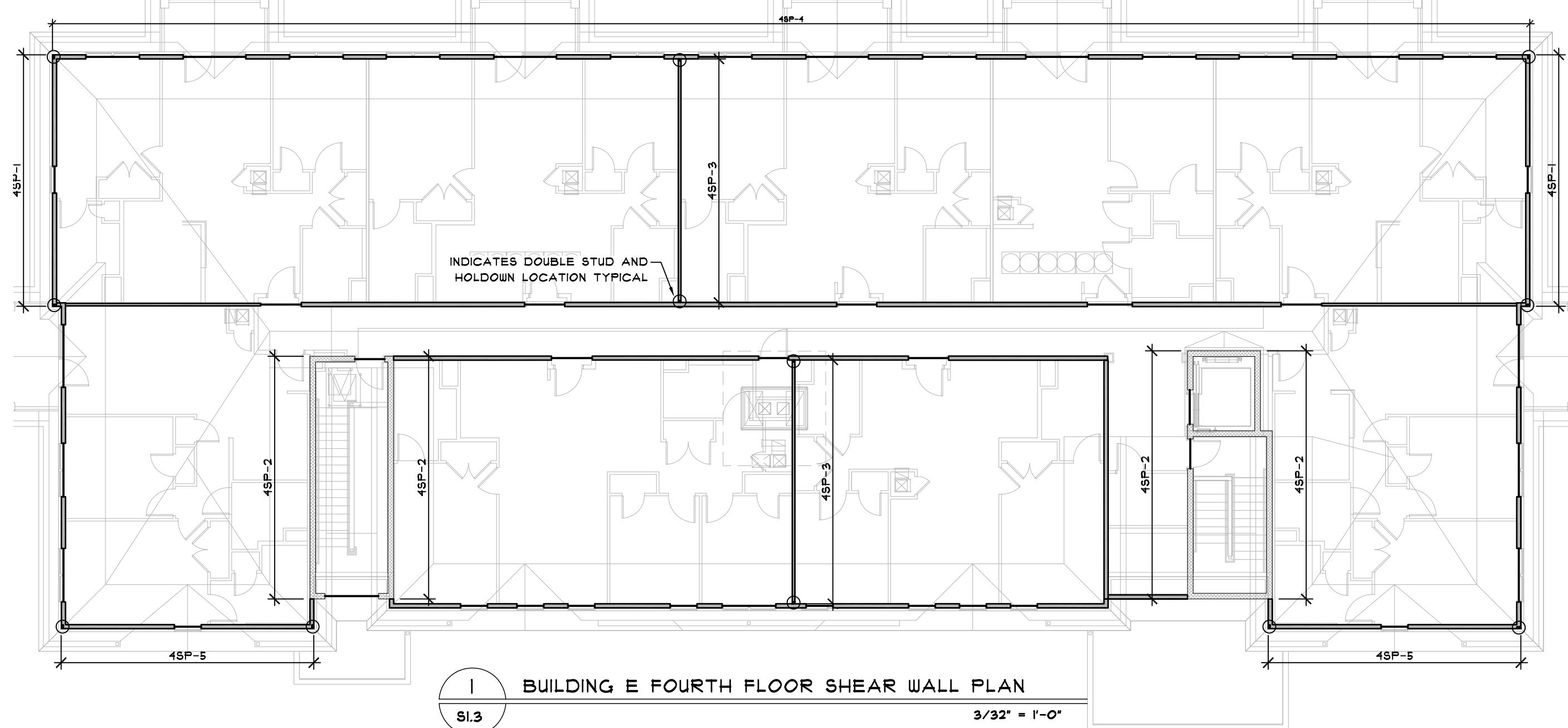
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SHEET CONTENTS:  
BLDG E ROOF  
FRAMING PLAN

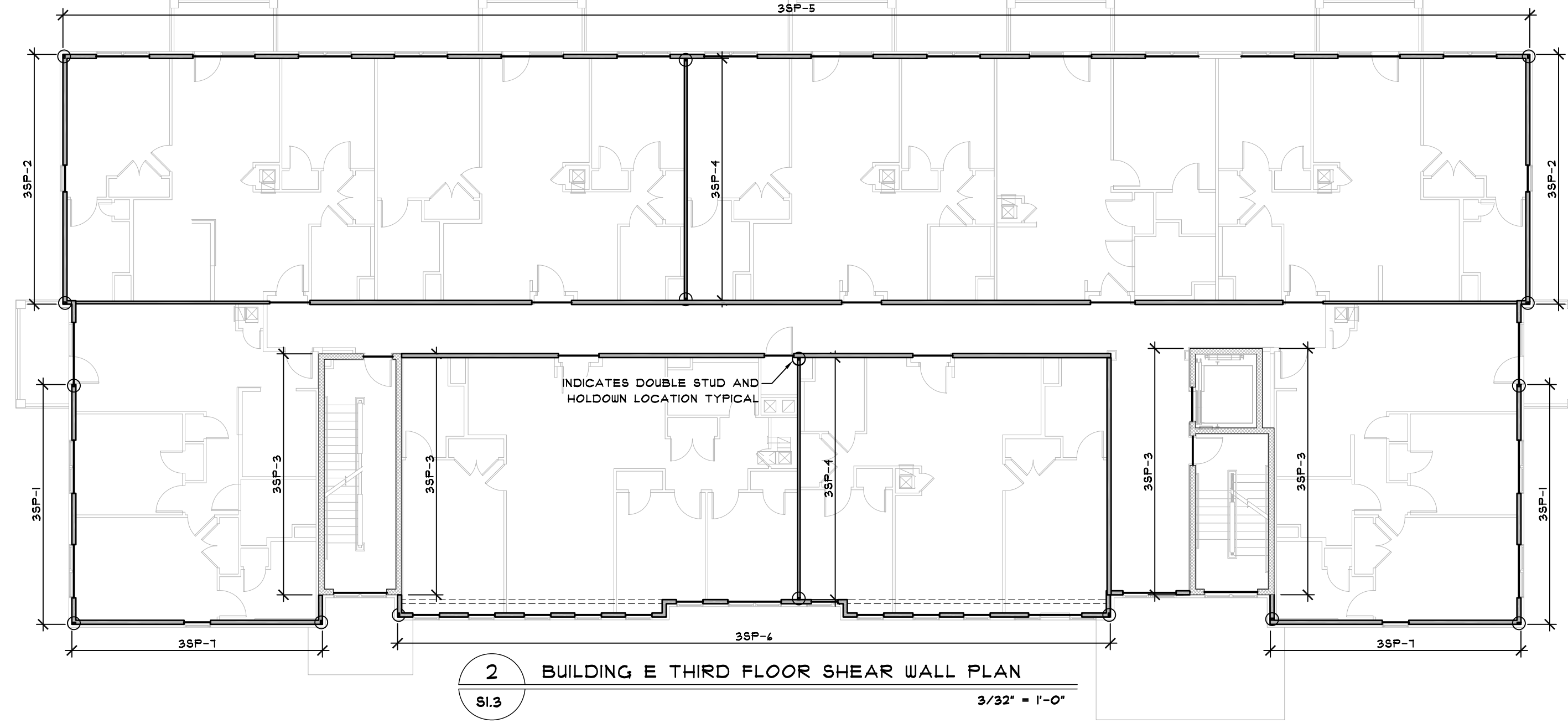
PROJECT # 1420  
DATE: 9/22/2020  
REVISED DATE:  
REVISED: 02/16/2021

**S1.2**



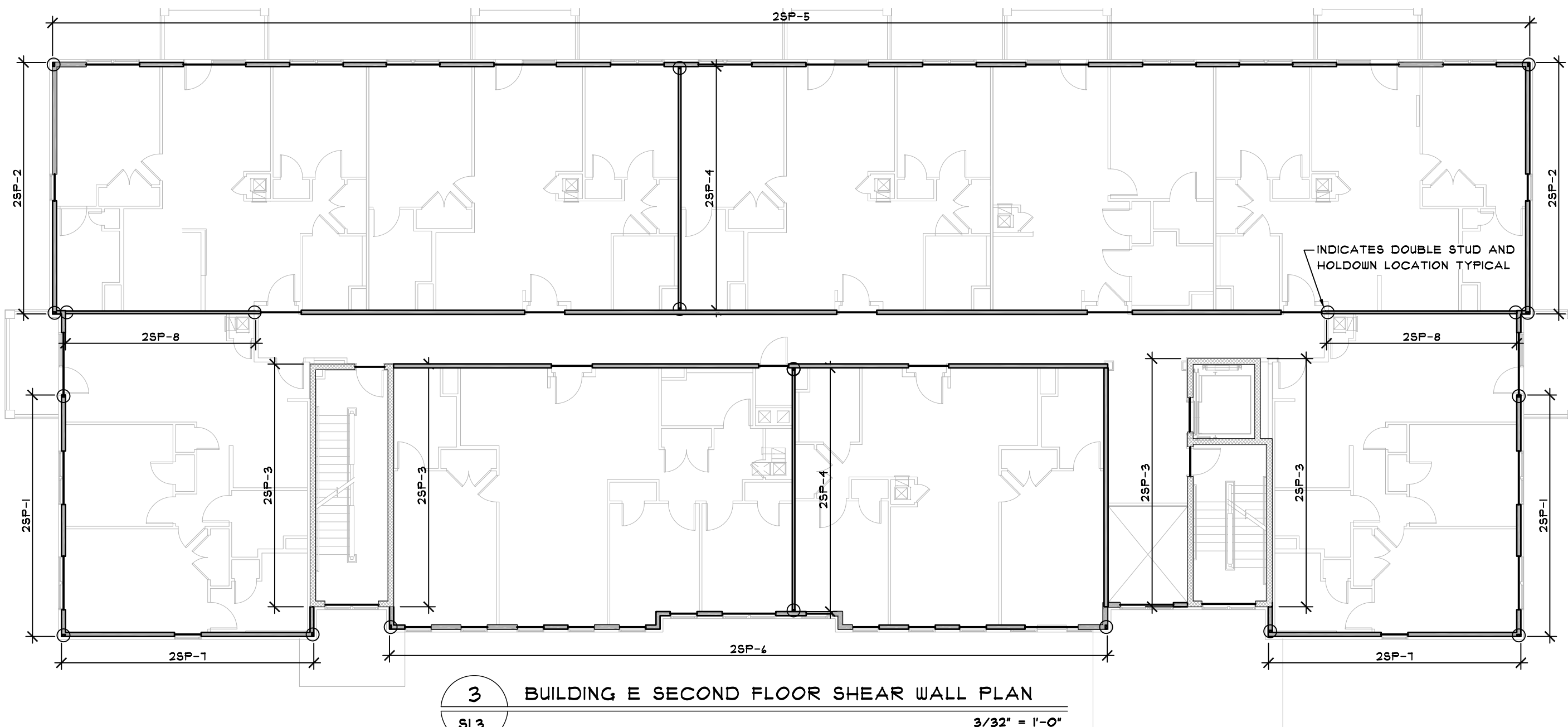
1 BUILDING E FOURTH FLOOR SHEAR WALL PLAN  
3/32" = 1'-0"

FOURTH FLOOR SHEAR WALL SCHEDULE					
MARK	MATERIAL	BLOCKING BETWEEN STUDS	FASTENING PATTERN	HOLDOWN * EACH END	ADDITIONAL REQUIREMENTS
4SP-1	1/2" STRUCTURAL I SHEATHING ONE SIDE	YES, AT ALL HORIZONTAL SHEATHING JOINTS	8d NAILS * 4" O.C. AT PERIMETER, 12" O.C. FIELD	M5TA49 STEEL STRAP	CENTER STRAP ON FLOOR FRAMING, LAP EQUALLY ONTO DOUBLE STUD AT EACH END OF SHEAR WALL AT FOURTH AND THIRD FLOOR LEVELS.
4SP-2	NOT APPLICABLE. REFER TO MASONRY SCHEDULE ON S21 FOR CMU REQUIREMENTS				
4SP-3	1/2" STRUCTURAL I SHEATHING ONE SIDE	YES, AT ALL HORIZONTAL SHEATHING JOINTS	8d NAILS * 4" O.C. AT PERIMETER, 12" O.C. FIELD	NONE REQUIRED	REFER TO 10/S2.0 FOR SHEATHING LAPPING REQUIREMENTS. FASTEN BOTTOM PLATE TO TRUSS W/ (2) 1/2d MIN SPIKES PER BAY
4SP-4	1/2" STRUCTURAL I SHEATHING ONE SIDE	YES, AT ALL HORIZONTAL SHEATHING JOINTS	8d NAILS * 4" O.C. AT PERIMETER, 12" O.C. FIELD	M5TA49 STEEL STRAP	CENTER STRAP ON FLOOR FRAMING, LAP EQUALLY ONTO DOUBLE STUD AT EACH END OF SHEAR WALL AT FOURTH AND THIRD FLOOR LEVELS.
4SP-5	1/2" STRUCTURAL I SHEATHING ONE SIDE	YES, AT ALL HORIZONTAL SHEATHING JOINTS	8d NAILS * 4" O.C. AT PERIMETER, 12" O.C. FIELD	M5TA49 STEEL STRAP	



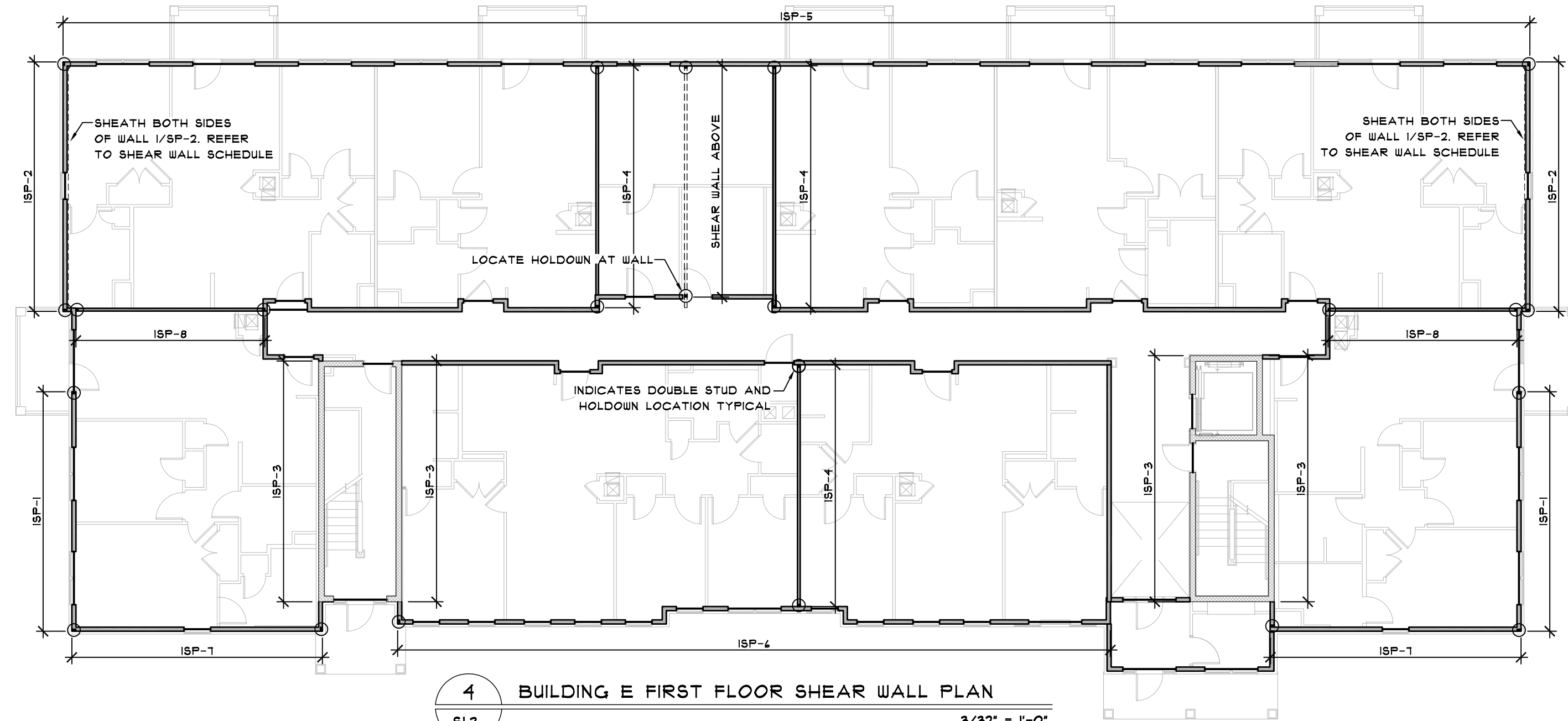
2 BUILDING E THIRD FLOOR SHEAR WALL PLAN  
3/32" = 1'-0"

THIRD FLOOR SHEAR WALL SCHEDULE					
MARK	MATERIAL	BLOCKING BETWEEN STUDS	FASTENING PATTERN	HOLDOWN * EACH END	ADDITIONAL REQUIREMENTS
3SP-1	1/2" STRUCTURAL I SHEATHING ONE SIDE	YES, AT ALL HORIZONTAL SHEATHING JOINTS	8d NAILS * 4" O.C. AT PERIMETER, 12" O.C. FIELD	M5TC52 STEEL STRAP	CENTER STRAP ON FLOOR FRAMING, LAP EQUALLY ONTO DOUBLE STUD AT EACH END OF SHEAR WALL AT THIRD AND SECOND FLOOR LEVELS.
3SP-2	1/2" STRUCTURAL I SHEATHING ONE SIDE	YES, AT ALL HORIZONTAL SHEATHING JOINTS	8d NAILS * 4" O.C. AT PERIMETER, 12" O.C. FIELD	M5TA49 STEEL STRAP	
3SP-3	NOT APPLICABLE. REFER TO MASONRY SCHEDULE ON S21 FOR CMU REQUIREMENTS				
3SP-4	1/2" STRUCTURAL I SHEATHING ONE SIDE	YES, AT ALL HORIZONTAL SHEATHING JOINTS	8d NAILS * 4" O.C. AT PERIMETER, 12" O.C. FIELD	M5TC52 STEEL STRAP	CENTER STRAP ON FLOOR FRAMING, LAP EQUALLY ONTO DOUBLE STUD AT EACH END OF SHEAR WALL AT THIRD AND SECOND FLOOR LEVELS.
3SP-5	1/2" STRUCTURAL I SHEATHING ONE SIDE	YES, AT ALL HORIZONTAL SHEATHING JOINTS	8d NAILS * 4" O.C. AT PERIMETER, 12" O.C. FIELD	M5TA49 STEEL STRAP	
3SP-4	1/2" STRUCTURAL I SHEATHING ONE SIDE	YES, AT ALL HORIZONTAL SHEATHING JOINTS	8d NAILS * 4" O.C. AT PERIMETER, 12" O.C. FIELD	NONE REQUIRED	REFER TO 10/S2.0 FOR SHEATHING LAPPING REQUIREMENTS. FASTEN BOTTOM PLATE TO TRUSS W/ (2) 1/2d MIN SPIKES PER BAY
3SP-1	1/2" STRUCTURAL I SHEATHING ONE SIDE	YES, AT ALL HORIZONTAL SHEATHING JOINTS	8d NAILS * 4" O.C. AT PERIMETER, 12" O.C. FIELD	NONE REQUIRED	



3 BUILDING E SECOND FLOOR SHEAR WALL PLAN  
3/32" = 1'-0"

SECOND FLOOR SHEAR WALL SCHEDULE					
MARK	MATERIAL	BLOCKING BETWEEN STUDS	FASTENING PATTERN	HOLDOWN * EACH END	ADDITIONAL REQUIREMENTS
2SP-1	1/2" STRUCTURAL I SHEATHING ONE SIDE	YES, AT ALL HORIZONTAL SHEATHING JOINTS	8d NAILS * 4" O.C. AT PERIMETER, 12" O.C. FIELD	M5TC52 STEEL STRAP	CENTER STRAP ON FLOOR FRAMING, LAP EQUALLY ONTO DOUBLE STUD AT EACH END OF SHEAR WALL AT SECOND AND FIRST FLOOR LEVELS.
2SP-2	1/2" STRUCTURAL I SHEATHING ONE SIDE	YES, AT ALL HORIZONTAL SHEATHING JOINTS	8d NAILS * 4" O.C. AT PERIMETER, 12" O.C. FIELD	M5TC52 STEEL STRAP	
2SP-3	NOT APPLICABLE. REFER TO MASONRY SCHEDULE ON S21 FOR CMU REQUIREMENTS				
2SP-4	1/2" STRUCTURAL I SHEATHING ONE SIDE	YES, AT ALL HORIZONTAL SHEATHING JOINTS	8d NAILS * 4" O.C. AT PERIMETER, 12" O.C. FIELD	M5TC52 STEEL STRAP	CENTER STRAP ON FLOOR FRAMING, LAP EQUALLY ONTO DOUBLE STUD AT EACH END OF SHEAR WALL AT SECOND AND FIRST FLOOR LEVELS.
2SP-5	1/2" STRUCTURAL I SHEATHING ONE SIDE	YES, AT ALL HORIZONTAL SHEATHING JOINTS	8d NAILS * 4" O.C. AT PERIMETER, 12" O.C. FIELD	NONE REQUIRED	
2SP-4	1/2" STRUCTURAL I SHEATHING ONE SIDE	YES, AT ALL HORIZONTAL SHEATHING JOINTS	8d NAILS * 4" O.C. AT PERIMETER, 12" O.C. FIELD	NONE REQUIRED	REFER TO 10/S2.0 FOR SHEATHING LAPPING REQUIREMENTS. FASTEN BOTTOM PLATE TO TRUSS W/ (2) 1/2d MIN SPIKES PER BAY
2SP-1	1/2" STRUCTURAL I SHEATHING ONE SIDE	YES, AT ALL HORIZONTAL SHEATHING JOINTS	8d NAILS * 4" O.C. AT PERIMETER, 12" O.C. FIELD	NONE REQUIRED	
2SP-8	1/2" STRUCTURAL I SHEATHING ONE SIDE	YES, AT ALL HORIZONTAL SHEATHING JOINTS	8d NAILS * 4" O.C. AT PERIMETER, 12" O.C. FIELD	NONE REQUIRED	



4 BUILDING E FIRST FLOOR SHEAR WALL PLAN  
3/32" = 1'-0"

FIRST FLOOR SHEAR WALL SCHEDULE					
MARK	MATERIAL	BLOCKING BETWEEN STUDS	FASTENING PATTERN	HOLDOWN * EACH END	ADDITIONAL REQUIREMENTS
1SP-1	1/2" STRUCTURAL I SHEATHING ONE SIDE	YES, AT ALL HORIZONTAL SHEATHING JOINTS	8d NAILS * 4" O.C. AT PERIMETER, 12" O.C. FIELD	SIMPSON HDU4-SDS2.5	EMBED 1/2" DIA THREADED ROD 8" MIN IN EPOXY. FASTEN SHEATHING TO SILL PLATE W/ 8d NAILS * 4" O.C.
1SP-2	1/2" STRUCTURAL I SHEATHING BOTH SIDES	YES, AT ALL HORIZONTAL SHEATHING JOINTS	8d NAILS * 4" O.C. AT PERIMETER, 12" O.C. FIELD (BOTH SIDES)	SIMPSON HDU5-SDS2.5	
1SP-3	NOT APPLICABLE. REFER TO MASONRY SCHEDULE ON S21 FOR CMU REQUIREMENTS				
1SP-4	1/2" STRUCTURAL I SHEATHING ONE SIDE	YES, AT ALL HORIZONTAL SHEATHING JOINTS	8d NAILS * 4" O.C. AT PERIMETER, 12" O.C. FIELD	SIMPSON HDU4-SDS2.5	EMBED 1/2" DIA THREADED ROD 8" MIN IN EPOXY. FASTEN SHEATHING TO SILL PLATE W/ 8d NAILS * 4" O.C.
1SP-5	1/2" STRUCTURAL I SHEATHING ONE SIDE	YES, AT ALL HORIZONTAL SHEATHING JOINTS	8d NAILS * 4" O.C. AT PERIMETER, 12" O.C. FIELD	NONE REQUIRED	
1SP-4	1/2" STRUCTURAL I SHEATHING ONE SIDE	YES, AT ALL HORIZONTAL SHEATHING JOINTS	8d NAILS * 4" O.C. AT PERIMETER, 12" O.C. FIELD	NONE REQUIRED	FASTEN SHEATHING TO SILL PLATE W/ 8d NAILS * 4" O.C.
1SP-1	1/2" STRUCTURAL I SHEATHING ONE SIDE	YES, AT ALL HORIZONTAL SHEATHING JOINTS	8d NAILS * 2" O.C. AT PERIMETER, 12" O.C. FIELD	NONE REQUIRED	
1SP-8	1/2" STRUCTURAL I SHEATHING ONE SIDE	YES, AT ALL HORIZONTAL SHEATHING JOINTS	8d NAILS * 4" O.C. AT PERIMETER, 12" O.C. FIELD	NONE REQUIRED	

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CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

**Ed Wojcik**  
architect, ltd  
One Richmond Square  
Providence, RI 02906  
401-861-7139

**YODER + TIDWELL**  
engineers

333 Smith Street  
Providence, RI 02908  
401-753-2468 (ext)  
401-274-7317 (fax)  
www.yoderandtidwell.com

Proposed Design for:  
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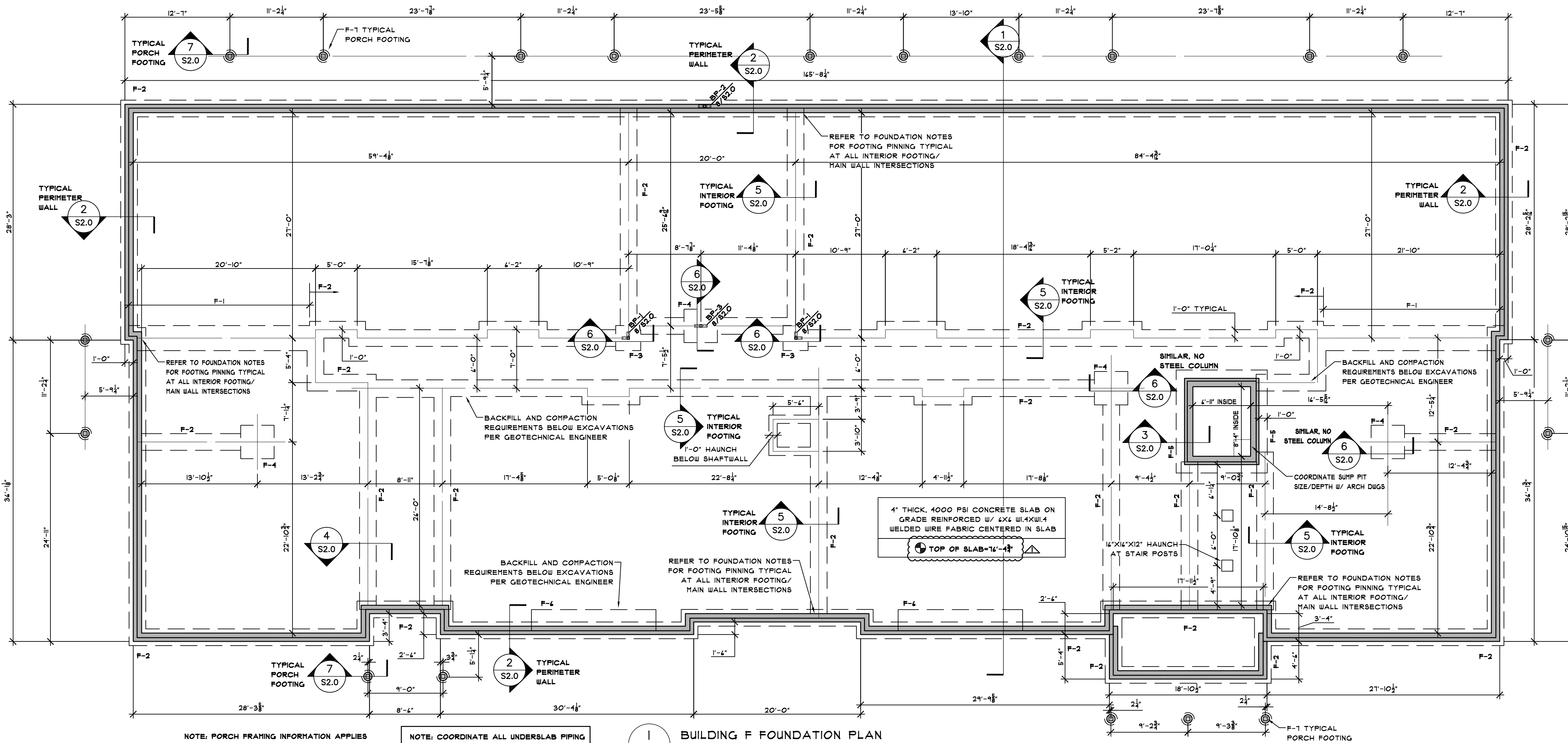


SHEET CONTENTS:  
BUILDING E  
SHEAR WALL PLANS  
NOTES/SCHEDULES

PROJECT # 1420

DATE: 9/22/2020  
REVISED DATE:  
REVISED: 02/16/2021

**S1.3**



- FOOTING/FOUNDATION PLAN NOTES:**
- SUBGRADE QUALITY, AND PREPARATION TO BE DETERMINED BY THE PROJECT GEOTECHNICAL ENGINEER. COORDINATE ALL SUBGRADE WORK WITH ASSOCIATED INSPECTORS.
  - REFER TO STATEMENT OF SPECIAL INSPECTIONS FOR ALL INSPECTION REQUIREMENTS.
  - A MAXIMUM DESIGN SOIL BEARING PRESSURE OF 2000 PSF HAS BEEN USED FOR THE DESIGN OF FOOTINGS. GEOTECHNICAL ENGINEER TO CONFIRM SUBGRADE CAPACITY.
  - PROVIDE CORNERBARS AT ALL CORNERS IN CONTINUATION OF ALL REINFORCING DETAILS. LAP ALL BARS 24" MIN.
  - PERFORM CONCRETE WORK IN ACCORDANCE WITH ACI 301. REFER TO THE SPECIFICATIONS FOR COLD WEATHER AND OTHER CONCRETE REQUIREMENTS.
  - ALL CONCRETE FOOTINGS AND FOUNDATION WALLS TO BE 3000 PSI AT 28 DAYS. ALL CONCRETE SLABS ARE TO BE 4000 PSI CONCRETE AT 28 DAYS. MAINTAIN MOISTURE IN CONCRETE FOR A MINIMUM OF 12 HOURS.
  - ALL REINFORCING BARS ARE TO BE ASTM A415 GRADE 60 STEEL.
  - ALL WELDED WIRE FABRIC TO BE ASTM A185 PLAIN.
  - WHERE INTERIOR FOOTINGS INTERSECT WITH MAIN FOUNDATION WALL, PIN FOOTING TO WALL WITH (3) #5 X 24" BARS EMBEDDED 4" INTO MAIN WALL IN EPOXY.

**FOOTING SCHEDULE**

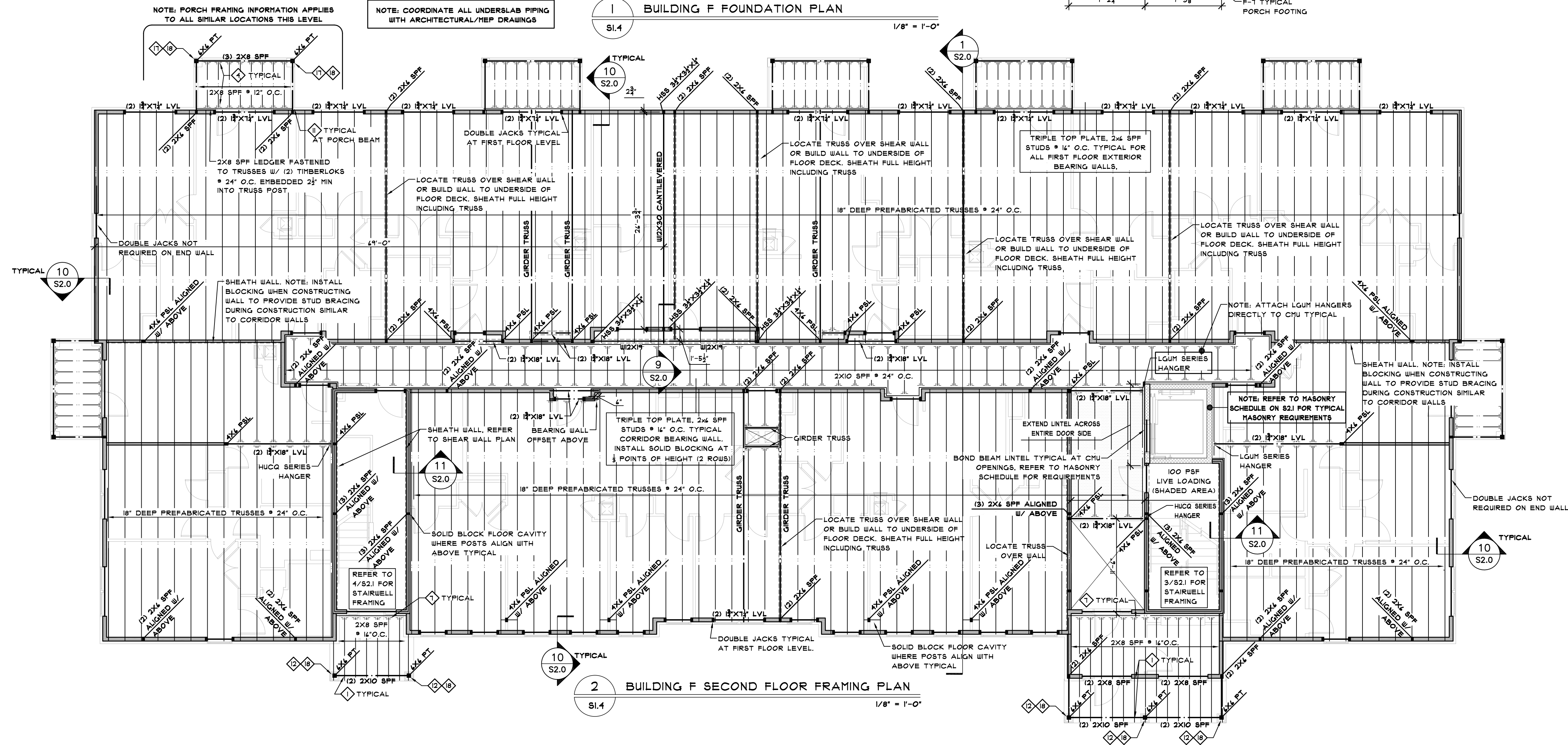
MARK	SIZE	REINFORCING
F-1	3'-0" WIDE X 1'-0" THICK, CONTINUOUS	(3) #5 BARS CONTINUOUS
F-2	2'-0" WIDE X 1'-0" THICK, CONTINUOUS	(3) #5 BARS CONTINUOUS
F-3	3'-0" X 3'-0" X 1'-0" THICK	(4) #5 BARS EACH WAY, 3" COVER FROM BOTTOM OF FOOTING
F-4	4'-0" X 4'-0" X 1'-0" THICK	(5) #5 BARS EACH WAY, 3" COVER FROM BOTTOM OF FOOTING
F-5	10'-11" X 12'-4" X 1'-0" THICK	#5 @ 14" O.C. EACH WAY, 3" COVER FROM BOTTOM OF FOOTING
F-6	2'-4" WIDE X 1'-0" THICK, CONTINUOUS	(3) #5 BARS CONTINUOUS
F-7	12" DIAMETER PIER FLARED TO 20" MIN AT BASE	(4) VERTICAL EACH QUADRANT

**Ed Wojcik**  
*architect, ltd*  
 One Richmond Square  
 Providence, RI 02906  
 401-861-7139

**YODER + TIDWELL**  
 engineers

333 Smith Street  
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**Phase I**  
 Buildings E, F, & COMMUNITY BUILDING  
 3102 Cranberry Highway  
 Wareham, MA 02552



- GENERAL STRUCTURAL NOTES:**
- ALL WORK IS TO BE DONE IN ACCORDANCE WITH THE MASSACHUSETTS STATE BUILDING CODE AND ASSOCIATED MA AMENDMENTS (2015 IBC).
  - COORDINATE ALL DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS.
  - ALL SUBGRADE AND UNDERSLAB SOIL PREPARATION TO BE DIRECTED AND INSPECTED BY THE PROJECT GEOTECHNICAL ENGINEER AND ASSOCIATED INSPECTORS.
  - REFER TO THE STATEMENT OF SPECIAL INSPECTIONS FOR ALL INSPECTION TASKS. TESTING SCHEDULING IS SOLELY THE RESPONSIBILITY OF THE CLIENT/CONTRACTOR. TESTING NOT COMPLETED BY THE CONTRACTOR SHALL REQUIRE THE CONTRACTOR TO REMOVE ANY PROGRESSION OF WORK TO EXPOSE ELEMENTS NECESSARY TO PERFORM THE PRESCRIBED TESTING. PERFORM DESTRUCTIVE TESTING, OR RETAIN A THIRD PARTY ENGINEER AT THEIR COST TO CERTIFY COMPLETED WORK. IN QUESTION, ANY FAILED TESTING RESULTS SHALL REQUIRE THE CONTRACTOR TO CORRECT THE ISSUE AND RESUBMIT INSPECTION REPORTS SHOWING COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS OR PROVIDE CERTIFICATION OF A THIRD PARTY ENGINEER IF COMPLIANCE IS NOT MET.
  - REFER TO SPECIFICATIONS FOR ALL MATERIAL GRADES.
  - PROVIDE SUBMITTALS FOR REVIEW FOR ALL ROOF AND FLOOR TRUSSES, CONVENTIONAL AND ENGINEERED WOOD FRAMING, SHEATHING, CONCRETE MIX DESIGNS, CONCRETE REINFORCING, AND MISCELLANEOUS HARDWARE.
  - ALL WOOD STUD BEARING WALLS ARE SHOWN SHADED ON THE FRAMING PLANS.
  - ALL LUMBER MUST HAVE A MOISTURE CONTENT OF 1% MAX AT THE TIME OF DELIVERY AND SHALL BE STORED OFF THE GROUND AND COVERED ON SITE PRIOR TO BEING INSTALLED. INSTALL ALL NON BEARING PARTITIONS TO ACCOMMODATE SHRINKAGE OF 1/4" AT EACH LEVEL.
  - ALL POSTS LOCATED WITHIN WALLS MUST BE BRACED BY FASTENING THROUGH WALL SHEATHING 8d NAILS AT 4" O.C..
  - ALL FLOOR AND ROOF BEAMS MUST BE LATERALLY BRACED ALONG THE TOP EDGE BY FASTENING THROUGH THE FLOOR OR ROOF SHEATHING W/ 8d NAILS @ 4" O.C.
  - REFER TO SHEAR WALL PLAN AND NOTES ON S12 AND S14 FOR SHEAR WALL LOCATIONS, CONSTRUCTION AND HOLDOWN REQUIREMENTS.

**DESIGN LOADS**

SNOW: 30 PSF  
 FLOOR LIVE:  
 PRIVATE ROOMS AND CORRIDORS SERVING THEM: 40 PSF  
 LOBBY: 100 PSF  
 DEAD LOAD:  
 ROOF: 15 PSF  
 FLOOR: 15 PSF + 1.5 PSF (GYPCRETE)  
 DEFLECTION:  
 ROOF LIVE: L/360, TOTAL: L/240  
 FLOOR LIVE: L/400, TOTAL: L/240  
 RISK CATEGORY: II  
 WIND: 130 MPH EXPOSURE B  
 SEISMIC: CLASS II, S<sub>w</sub>+0.13, S<sub>i</sub>+0.051  
 FROST DEPTH: 4'-0"

CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

SHEET CONTENTS:  
 BLDG F FNDN/  
 SECOND FLOOR  
 FRAMING PLAN

PROJECT # 1420  
 DATE: 9/22/2020  
 REVISED DATE:  
 REVISED: 02/16/2021

**S1.4**

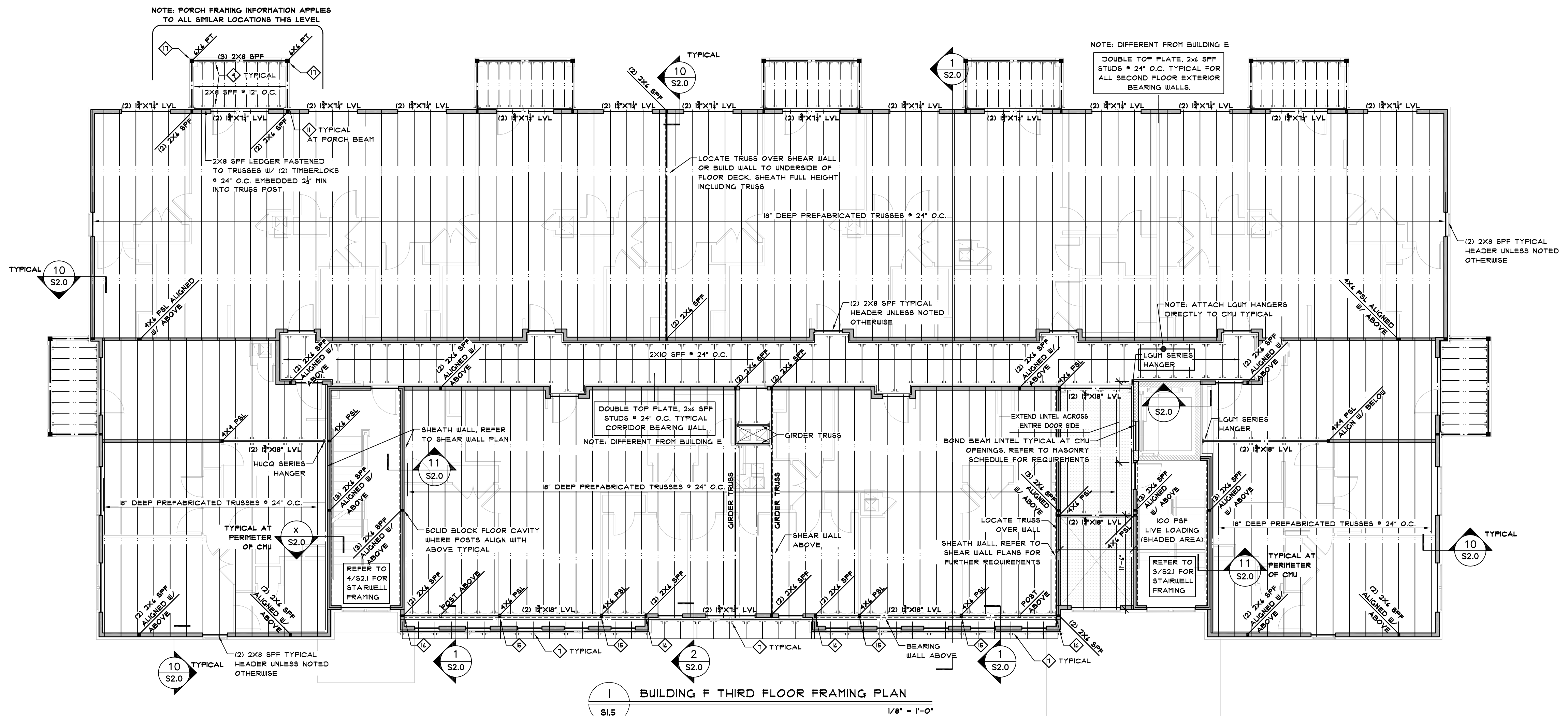
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CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

### HOLDOWN SCHEDULE

1	SIMPSON H2.5A	TRUSS TO WALL TYPICAL. INSTALL ON SHEATHED SIDE OF WALL
2	(2) TIMBERLOKS	TRUSS TO WALL, REFER TO DETAIL 12/S2.0
3	(2) SIMPSON SDCU15450	THIRD FLOOR STUD TO TOP AND BOTTOM PLATES, REFER TO DETAIL 12/S2.0
4	SIMPSON LUS SERIES HANGERS	FLOOR/ROOF JOIST TO BEAM/ LEDGER. INSTALL ALL SIDE SHEAR NAILS INTO JOIST
5	SIMPSON LGT HOLDOWN	GIRDER TRUSS TO POST BELOW
6	SIMPSON TS22 TWIST STRAP	HIP TRUSS TO POST BELOW. INSTALL ON SHEATHED SIDE OF WALL
7	SIMPSON LUS SERIES HANGERS	JACK TRUSS TO GIRDER TRUSS/LEDGER. INSTALL ALL SIDE SHEAR NAILS INTO HANGER
8	SIMPSON HUCQ SERIES HANGER	ROOF BEAM TO CHU. FASTEN HANGER W/ 1/2" X 2" TITEN 2 MASONRY SCREWS
9	SIMPSON TS19 TWIST STRAP	ROOF/FLOOR BEAM TO POST BELOW.
10	SIMPSON HGAKT	ROOF BEAM TO PT PLATES APPLIED TO ONE SIDE.
11	SIMPSON HJC SERIES HANGER	PORCH BEAM TO POST IN WALL. INSTALL ALL SIDE SHEAR NAILS INTO PORCH BEAM
12	SIMPSON LCE SERIES POST CAP	EACH PORCH BEAM TO PT POST.
13	SIMPSON HUC SERIES HANGER	PORCH BEAM TO POST. INSTALL ALL SIDE SHEAR NAILS INTO PORCH BEAM
14	SIMPSON LSTO ONE SIDE	RAFTER TO ROOF BEAM
15	SIMPSON MST134 STEEL STRAP	FLOOR BEAM TO PSL POST IN WALL. CENTER STRAP ON EACH MEMBER.
16	(2) SIMPSON TS22 TWIST STRAP	FLOOR BEAM TO POST IN WALL
17	SIMPSON ST4234 STRAP	UPPER POST TO LOWER POST. CENTER STRAP ON BEAM, LAP UPPER POST/LOWER POST EQUALLY. INSTALL FASTENERS IN ALL HOLES
18	SIMPSON ABU SERIES POST BASE	PT POST TO CONCRETE PIER. EMBED 1/2" DIA GALV THREADED ROD 4" MIN IN EPOXY OR CAST IN PLACE 12" LONG J ANCHOR



#### WIND CONSTRUCTION REQUIREMENTS:

##### CONTINUOUS LOAD PATH:

- ALL ROOF FRAMING ELEMENTS ARE SUBJECT TO WIND UPLIFT AND MUST BE ANCHORED TO THE STRUCTURE WITH SUPPLEMENTAL HARDWARE OR OTHER MEANS AS SPECIFIED IN THE PLANS. ADDITIONALLY, A CONTINUOUS LOAD PATH MUST BE MAINTAINED FROM THE ROOF LEVEL TO THE FOUNDATION VIA PLYWOOD WALL SHEATHING ON THE EXTERIOR WALLS. SEE NOTES BELOW FOR PLYWOOD LAPPING AND FASTENING REQUIREMENTS.

##### EXTERIOR WALL SHEATHING REQUIREMENTS:

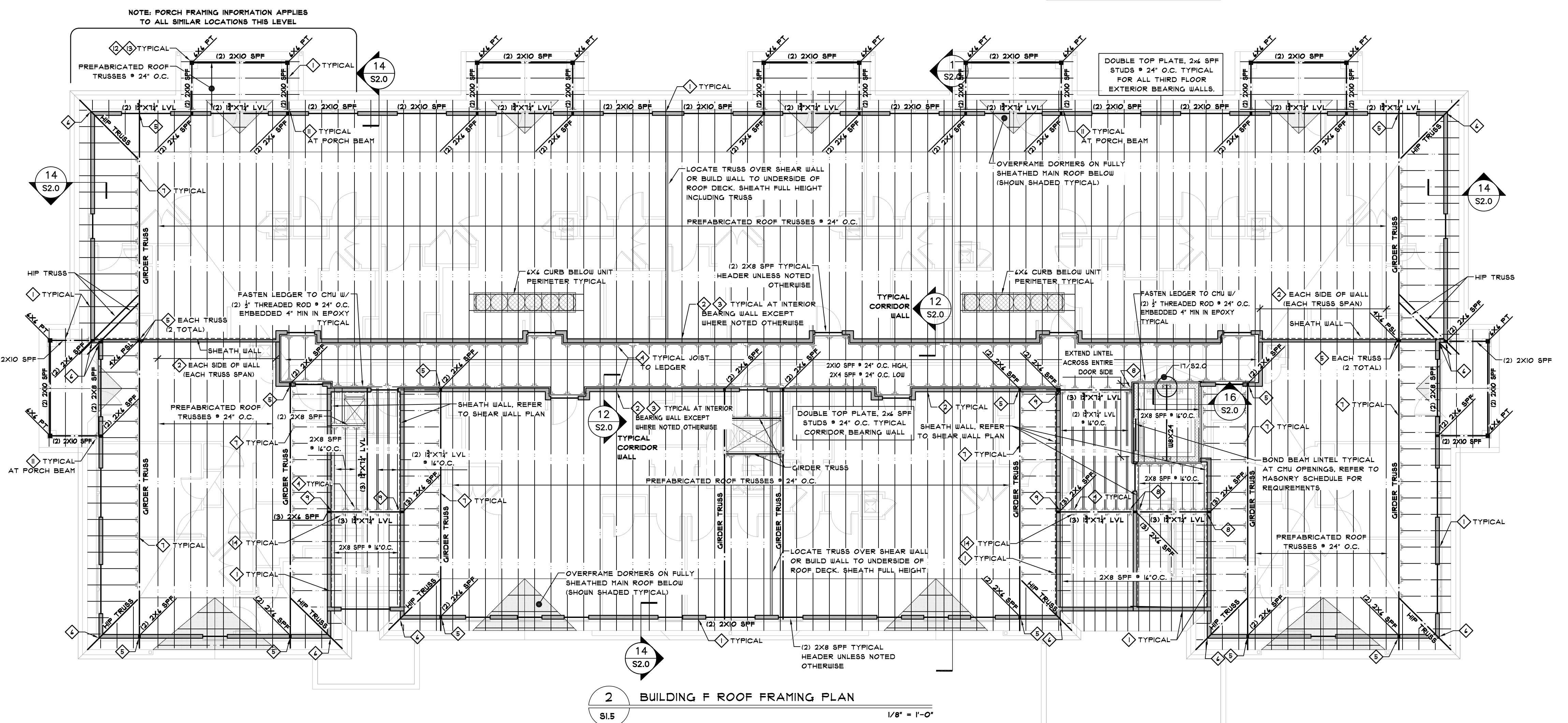
- ALL SHEATHING MUST BE 1/2" STRUCTURAL I SHEATHING AND RUN HORIZONTALLY (PERPENDICULAR TO FRAMING).
- SHEATHING MUST LAP ONTO ANY WALL STUD 1" MINIMUM FROM THE TOP OR BOTTOM PLATES. REFER TO SHEAR WALL NOTES FOR FASTENING REQUIREMENTS.
- AT INTERMEDIATE FLOOR LEVEL, LAP SHEATHING SUCH THAT THE JOINT IS CENTERED ON THE 2X8 TRUSS BAND, REFER TO 4/S2.0.
- FASTEN ALL SHEATHING EDGES TO TOP, BOTTOM, AND SILL PLATES WITH 8d NAILS @ 4" O.C.
- REFER TO THE SHEAR WALL PLAN ON S1.2 AND S1.4 FOR ADDITIONAL FRAMING/ SHEATHING/ FASTENING REQUIREMENTS.

##### FLOOR SHEATHING:

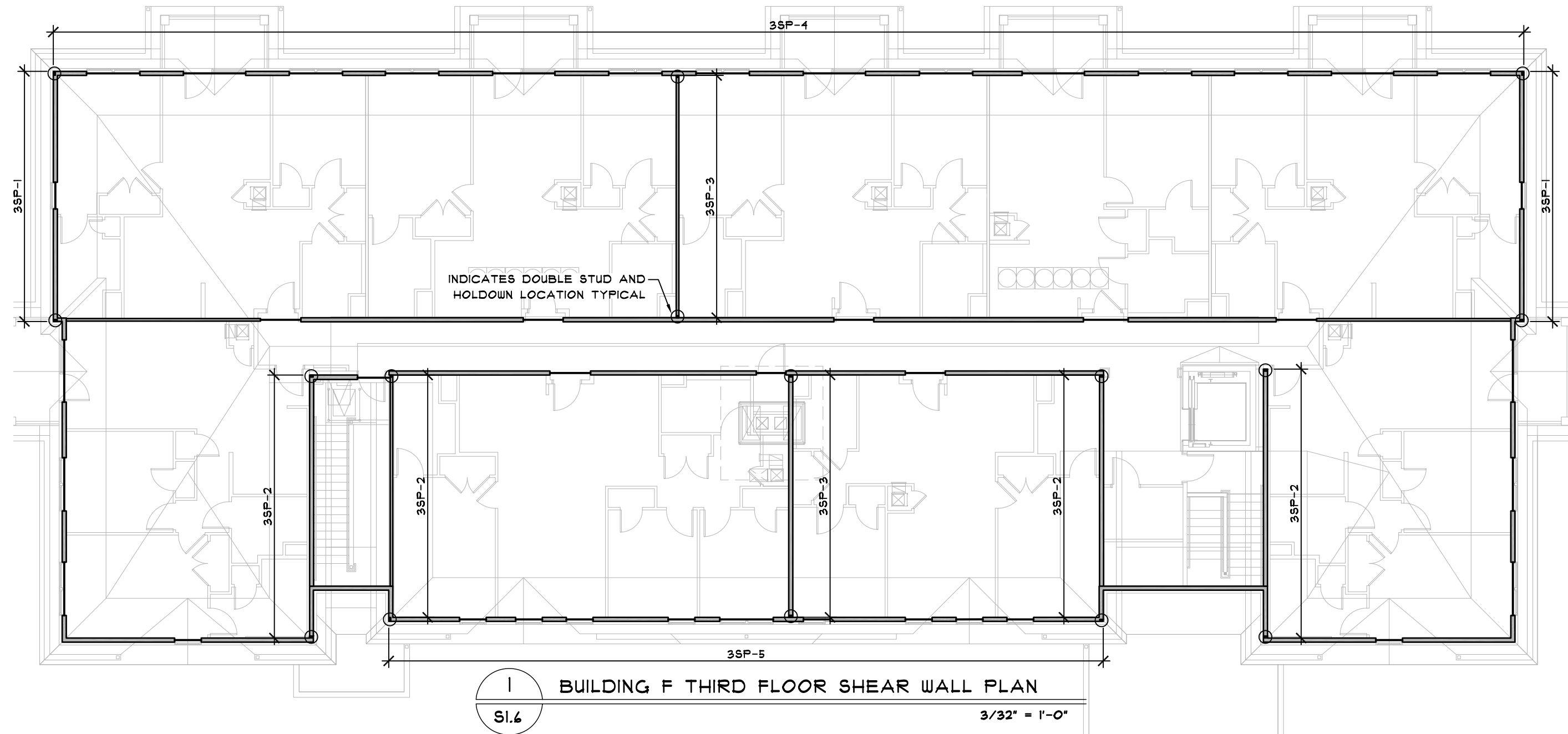
- USE 3/4" TIG CDX STRUCTURAL I PLYWOOD.
- FASTEN TO FLOOR FRAMING WITH 8d RING NAILS AND CONSTRUCTION ADHESIVE.
- FASTENING SPACING:
  - WITHIN 8" OF ANY EXTERIOR WALL: NAIL AT 4" O.C. ALONG PLYWOOD ENDS, 4" O.C. FIELD
  - INBOARD OF 8" PERIMETER: NAIL AT 4" O.C. ON ENDS, 12" O.C. FIELD.

##### ROOF SHEATHING:

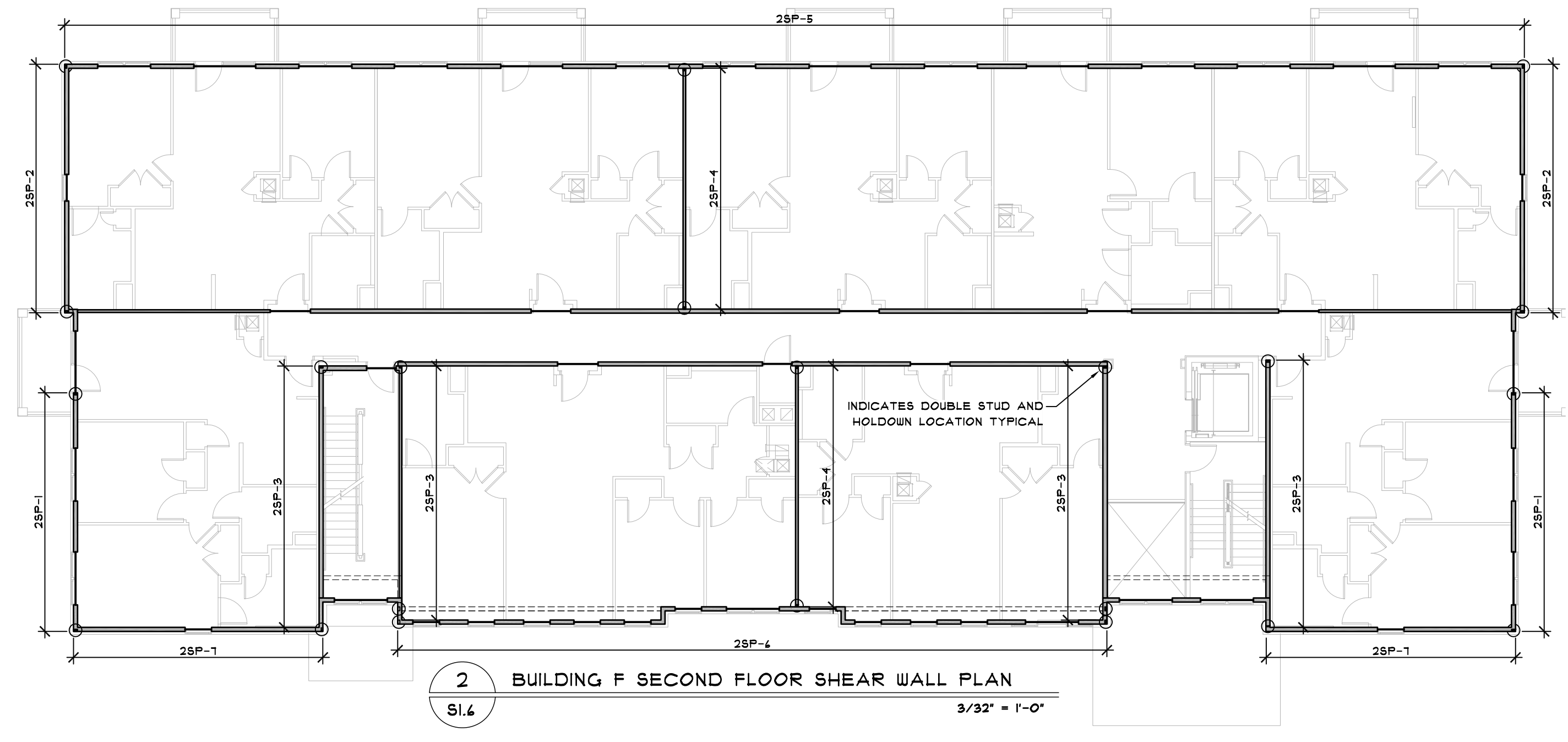
- 3/4" TIG CDX STRUCTURAL I SHEATHING.
- FASTEN ROOF SHEATHING TO FRAMING WITH 8d NAILS.
- FASTENING SPACING:
  - WITHIN 4" OF ANY EXTERIOR WALL OR RIDGE: FASTEN WITH 8d NAILS @ 4" O.C. AT EDGES, 4" O.C. FIELD. ON GABLE END RAKE OR RIDGE: 4" O.C. ALONG ENTIRE RUN.
  - INBOARD OF 4" PERIMETER: 4" O.C. ENDS, 12" O.C. INTERMEDIATE.







1 BUILDING F THIRD FLOOR SHEAR WALL PLAN  
SI.4 3/32" = 1'-0"

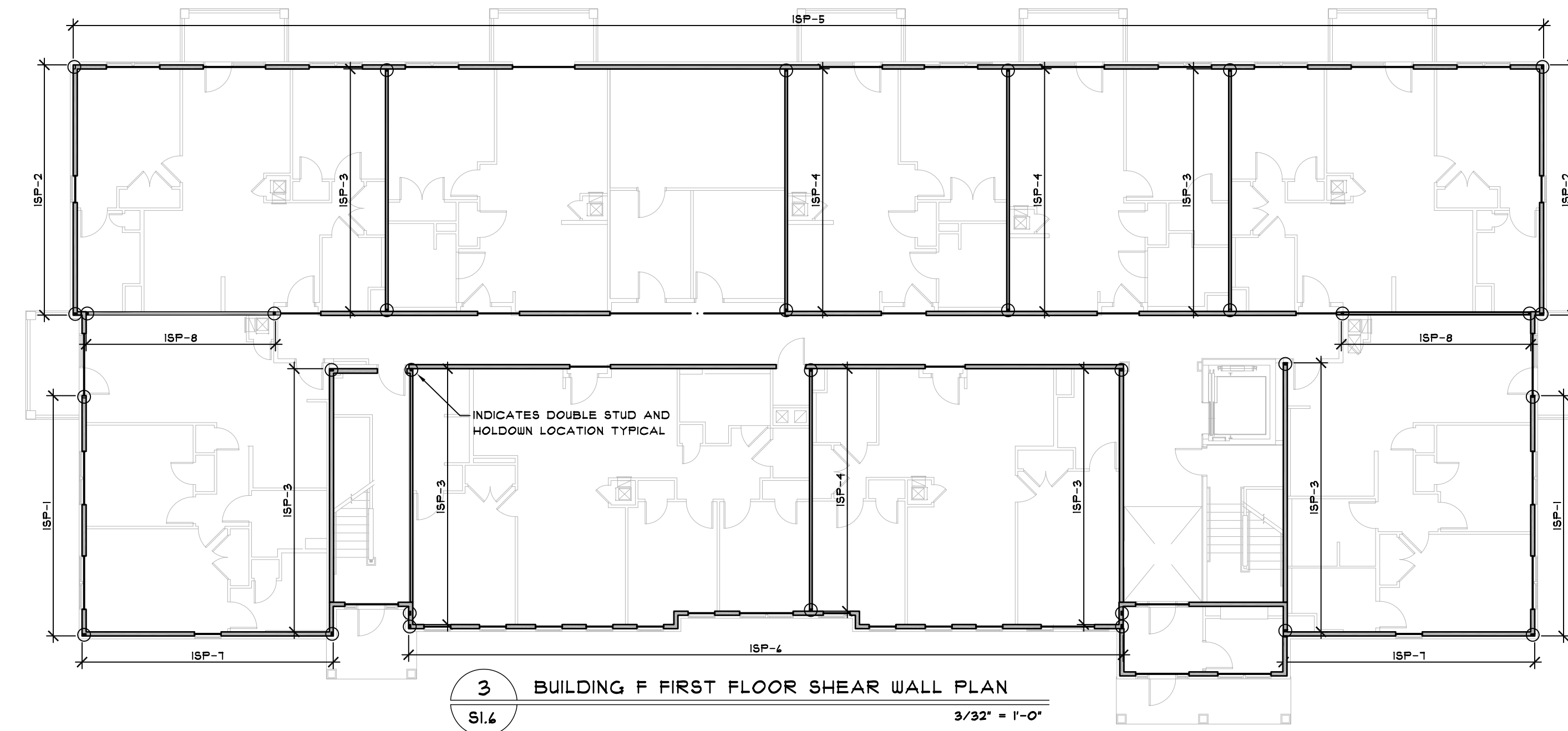


2 BUILDING F SECOND FLOOR SHEAR WALL PLAN  
SI.4 3/32" = 1'-0"

THIRD FLOOR SHEAR WALL SCHEDULE					
MARK	MATERIAL	BLOCKING BETWEEN STUDS	FASTENING PATTERN	HOLDOWN * EACH END	ADDITIONAL REQUIREMENTS
3SP-1	1/2" STRUCTURAL I SHEATHING ONE SIDE	YES, AT ALL HORIZONTAL SHEATHING JOINTS	8d NAILS * 4' O.C. AT PERIMETER, 12" O.C. FIELD	MSTC52 STEEL STRAP	CENTER STRAP ON FLOOR FRAMING, LAP EQUALLY ONTO DOUBLE STUD AT EACH END OF SHEAR WALL AT THIRD AND SECOND FLOOR LEVELS.
3SP-2	1/2" STRUCTURAL I SHEATHING ONE SIDE	YES, AT ALL HORIZONTAL SHEATHING JOINTS	8d NAILS * 4' O.C. AT PERIMETER, 12" O.C. FIELD	MSTA49 STEEL STRAP	
3SP-3	1/2" STRUCTURAL I SHEATHING ONE SIDE	YES, AT ALL HORIZONTAL SHEATHING JOINTS	8d NAILS * 4' O.C. AT PERIMETER, 12" O.C. FIELD	MSTA49 STEEL STRAP	REFER TO 10/S2.0 FOR SHEATHING LAPPING REQUIREMENTS. FASTEN BOTTOM PLATE TO TRUSS W/ (2) 1/2" MIN SPIKES PER BAY
3SP-4	1/2" STRUCTURAL I SHEATHING ONE SIDE	YES, AT ALL HORIZONTAL SHEATHING JOINTS	8d NAILS * 4' O.C. AT PERIMETER, 12" O.C. FIELD	NONE REQUIRED	
3SP-5	1/2" STRUCTURAL I SHEATHING ONE SIDE	YES, AT ALL HORIZONTAL SHEATHING JOINTS	8d NAILS * 4' O.C. AT PERIMETER, 12" O.C. FIELD	NONE REQUIRED	

SECOND FLOOR SHEAR WALL SCHEDULE					
MARK	MATERIAL	BLOCKING BETWEEN STUDS	FASTENING PATTERN	HOLDOWN * EACH END	ADDITIONAL REQUIREMENTS
2SP-1	1/2" STRUCTURAL I SHEATHING ONE SIDE	YES, AT ALL HORIZONTAL SHEATHING JOINTS	8d NAILS * 4' O.C. AT PERIMETER, 12" O.C. FIELD	NONE REQUIRED	REFER TO 10/S2.0 FOR SHEATHING LAPPING REQUIREMENTS. FASTEN BOTTOM PLATE TO TRUSS W/ (2) 1/2" MIN SPIKES PER BAY
2SP-2	1/2" STRUCTURAL I SHEATHING ONE SIDE	YES, AT ALL HORIZONTAL SHEATHING JOINTS	8d NAILS * 4' O.C. AT PERIMETER, 12" O.C. FIELD	MSTC52 STEEL STRAP	CENTER STRAP ON FLOOR FRAMING, LAP EQUALLY ONTO DOUBLE STUD AT EACH END OF SHEAR WALL AT SECOND AND FIRST FLOOR LEVELS.
2SP-3	1/2" STRUCTURAL I SHEATHING ONE SIDE	YES, AT ALL HORIZONTAL SHEATHING JOINTS	8d NAILS * 4' O.C. AT PERIMETER, 12" O.C. FIELD	MSTC52 STEEL STRAP	
2SP-4	1/2" STRUCTURAL I SHEATHING ONE SIDE	YES, AT ALL HORIZONTAL SHEATHING JOINTS	8d NAILS * 4' O.C. AT PERIMETER, 12" O.C. FIELD	MSTC52 STEEL STRAP	REFER TO 10/S2.0 FOR SHEATHING LAPPING REQUIREMENTS. FASTEN BOTTOM PLATE TO TRUSS W/ (2) 1/2" MIN SPIKES PER BAY
2SP-5	1/2" STRUCTURAL I SHEATHING ONE SIDE	YES, AT ALL HORIZONTAL SHEATHING JOINTS	8d NAILS * 4' O.C. AT PERIMETER, 12" O.C. FIELD	NONE REQUIRED	
2SP-4	1/2" STRUCTURAL I SHEATHING ONE SIDE	YES, AT ALL HORIZONTAL SHEATHING JOINTS	8d NAILS * 4' O.C. AT PERIMETER, 12" O.C. FIELD	NONE REQUIRED	
2SP-1	1/2" STRUCTURAL I SHEATHING ONE SIDE	YES, AT ALL HORIZONTAL SHEATHING JOINTS	8d NAILS * 4' O.C. AT PERIMETER, 12" O.C. FIELD	NONE REQUIRED	

- SHEAR WALL PLAN NOTES**
- ALL DESIGNATED SHEAR WALLS ARE TO HAVE SOLID BLOCKING INSTALLED BETWEEN STUDS ALONG ALL HORIZONTAL SHEATHING EDGES AND FASTENED WITH 8d NAILS PER THE SHEAR WALL SCHEDULE.
  - ALL SHEAR WALLS TO HAVE A DOUBLE STUD EACH END. REFER TO THE SHEAR WALL PLAN FOR LOCATIONS.
  - HDU HOLDOWNS ARE TO BE EPOXY ANCHORED DIRECTLY INTO THE FOUNDATION WALL. MINIMUM EMBEDMENT FOR ALL 1/2" DIA THREADED RODS IN EPOXY TO BE 8".
  - REFER TO MASONRY SCHEDULE FOR CMU SHEAR WALL CONSTRUCTION REQUIREMENTS

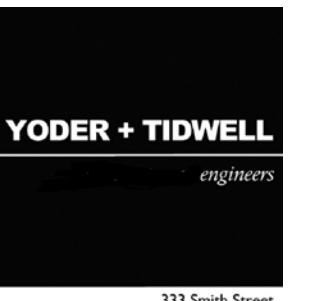


3 BUILDING F FIRST FLOOR SHEAR WALL PLAN  
SI.4 3/32" = 1'-0"

FIRST FLOOR SHEAR WALL SCHEDULE					
MARK	MATERIAL	BLOCKING BETWEEN STUDS	FASTENING PATTERN	HOLDOWN * EACH END	ADDITIONAL REQUIREMENTS
1SP-1	1/2" STRUCTURAL I SHEATHING ONE SIDE	YES, AT ALL HORIZONTAL SHEATHING JOINTS	8d NAILS * 4' O.C. AT PERIMETER, 12" O.C. FIELD	SIMPSON HDU5-SDS2.5	EMBED 1/2" DIA THREADED ROD 8" MIN IN EPOXY. FASTEN SHEATHING TO SILL PLATE W/ 8d NAILS * 4' O.C.
1SP-2	1/2" STRUCTURAL I SHEATHING ONE SIDE	YES, AT ALL HORIZONTAL SHEATHING JOINTS	8d NAILS * 4' O.C. AT PERIMETER, 12" O.C. FIELD	SIMPSON HDU5-SDS2.5	
1SP-3	1/2" STRUCTURAL I SHEATHING ONE SIDE	YES, AT ALL HORIZONTAL SHEATHING JOINTS	8d NAILS * 4' O.C. AT PERIMETER, 12" O.C. FIELD	SIMPSON HDU5-SDS2.5	FASTEN SHEATHING TO SILL PLATE W/ 8d NAILS * 4' O.C.
1SP-4	1/2" STRUCTURAL I SHEATHING ONE SIDE	YES, AT ALL HORIZONTAL SHEATHING JOINTS	8d NAILS * 4' O.C. AT PERIMETER, 12" O.C. FIELD	SIMPSON HDU5-SDS2.5	
1SP-5	1/2" STRUCTURAL I SHEATHING ONE SIDE	YES, AT ALL HORIZONTAL SHEATHING JOINTS	8d NAILS * 4' O.C. AT PERIMETER, 12" O.C. FIELD	NONE REQUIRED	
1SP-4	1/2" STRUCTURAL I SHEATHING ONE SIDE	YES, AT ALL HORIZONTAL SHEATHING JOINTS	8d NAILS * 4' O.C. AT PERIMETER, 12" O.C. FIELD	NONE REQUIRED	
1SP-1	1/2" STRUCTURAL I SHEATHING ONE SIDE	YES, AT ALL HORIZONTAL SHEATHING JOINTS	8d NAILS * 4' O.C. AT PERIMETER, 12" O.C. FIELD	NONE REQUIRED	
1SP-8	1/2" STRUCTURAL I SHEATHING ONE SIDE	YES, AT ALL HORIZONTAL SHEATHING JOINTS	8d NAILS * 4' O.C. AT PERIMETER, 12" O.C. FIELD	NONE REQUIRED	

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**Ed Wojcik**  
architect, ltd  
One Richmond Square  
Providence, RI 02906  
401-861-7139



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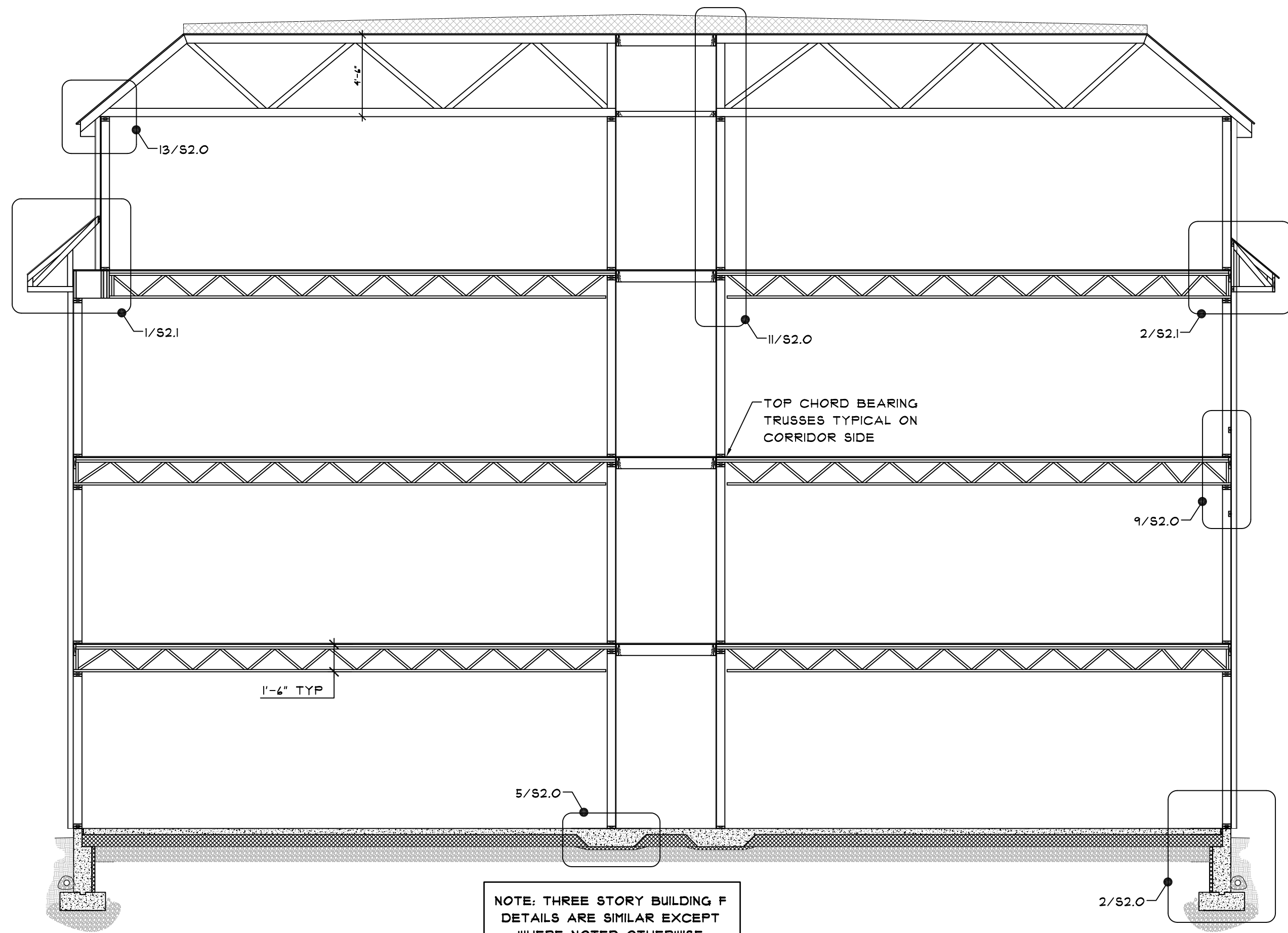


SHEET CONTENTS:  
BUILDING F  
SHEAR WALL PLANS  
NOTES/SCHEDULES

PROJECT # 1420  
DATE: 9/22/2020  
REVISED DATE:  
REVISED: 02/16/2021

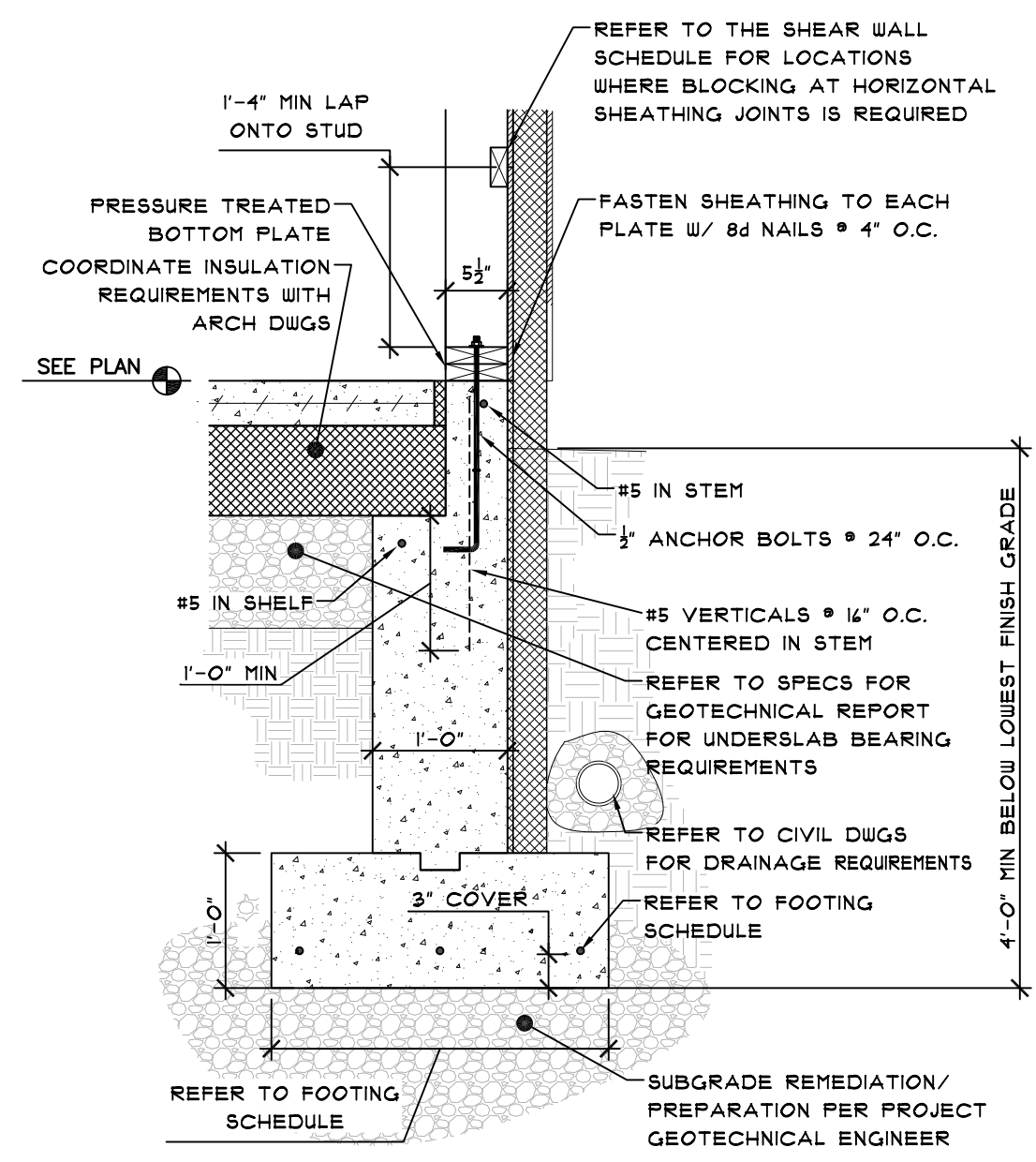
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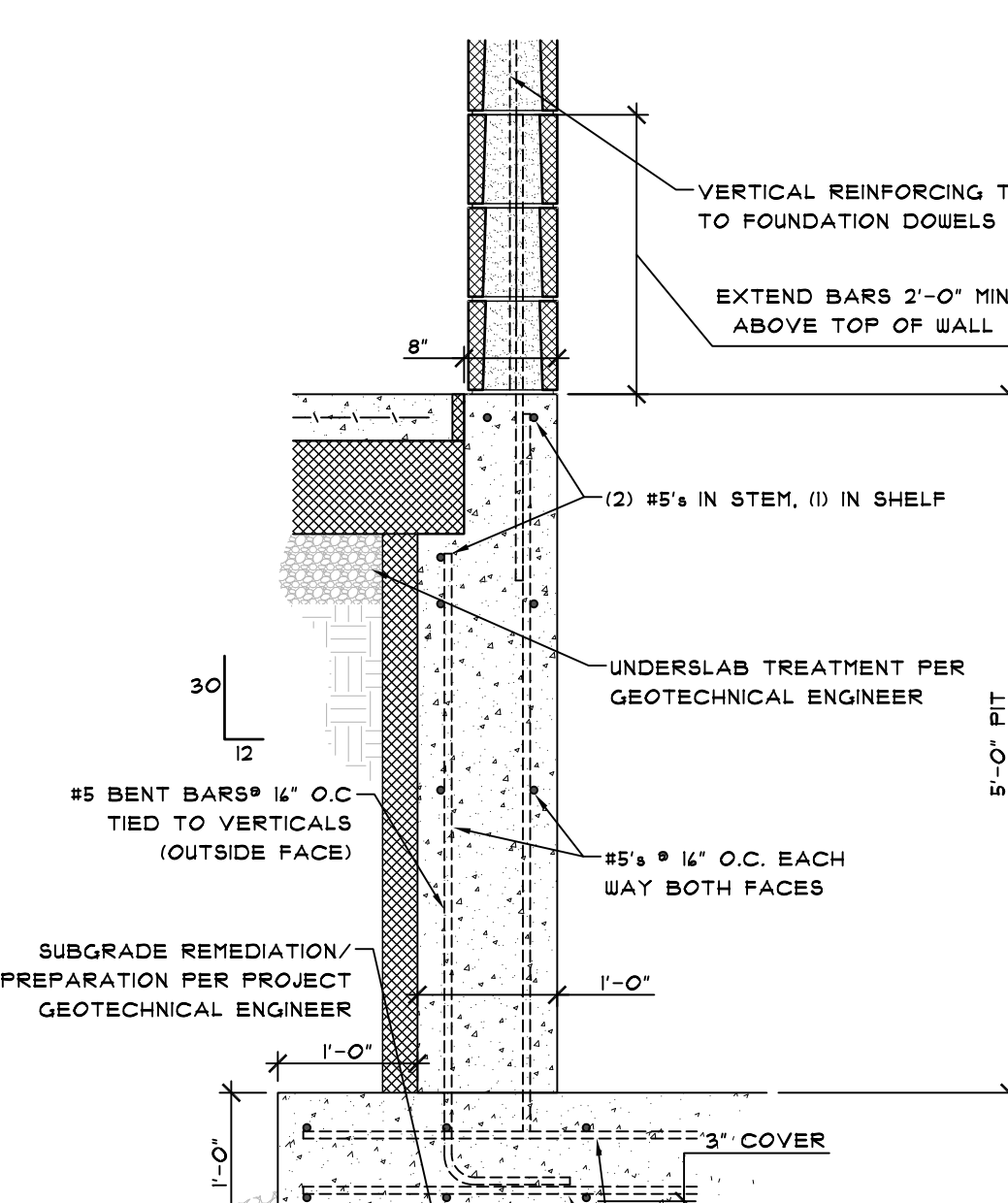


1 BUILDING E SECTION  
S2.0 1/2" = 1'-0"

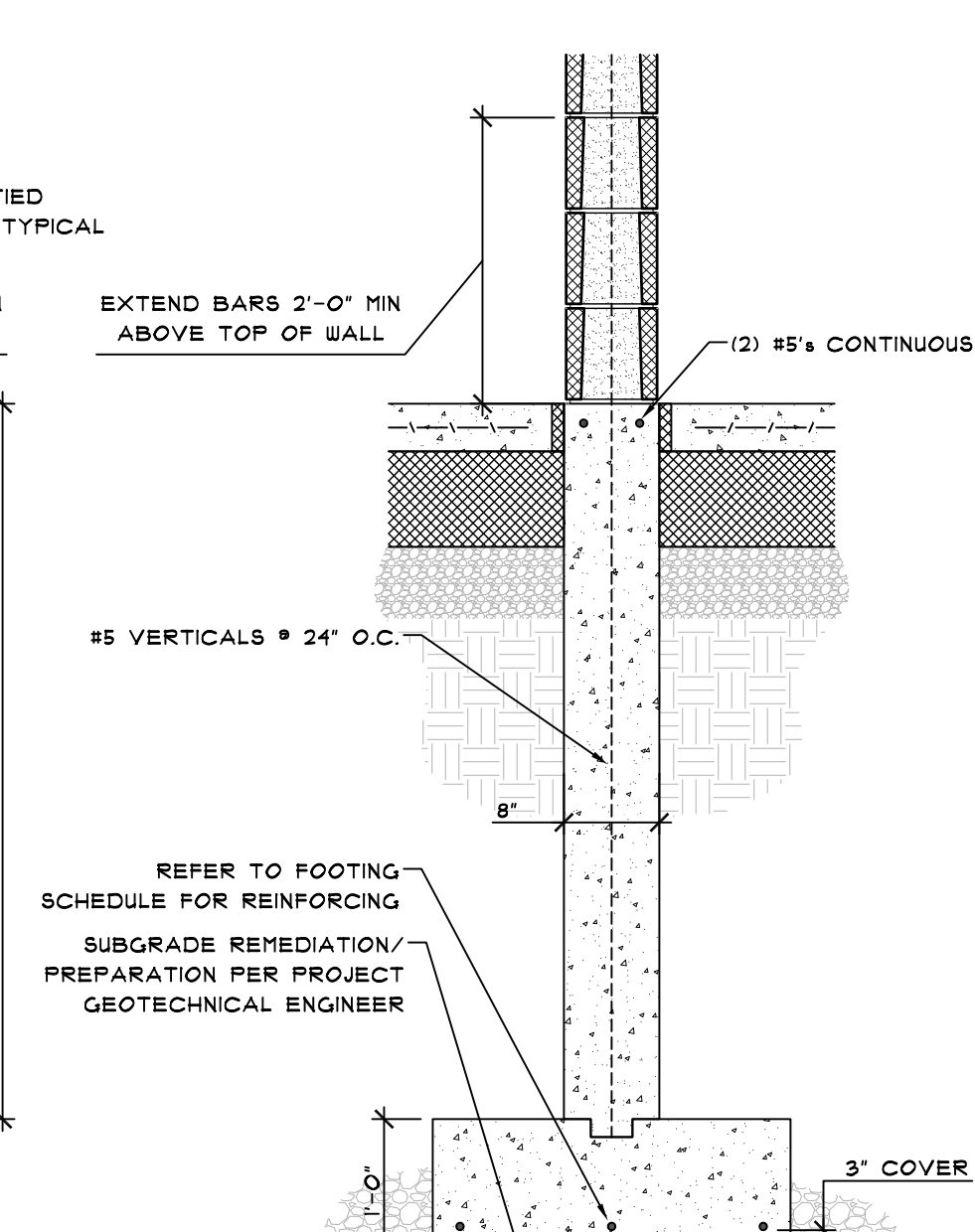
NOTE: THREE STORY BUILDING F DETAILS ARE SIMILAR EXCEPT WHERE NOTED OTHERWISE



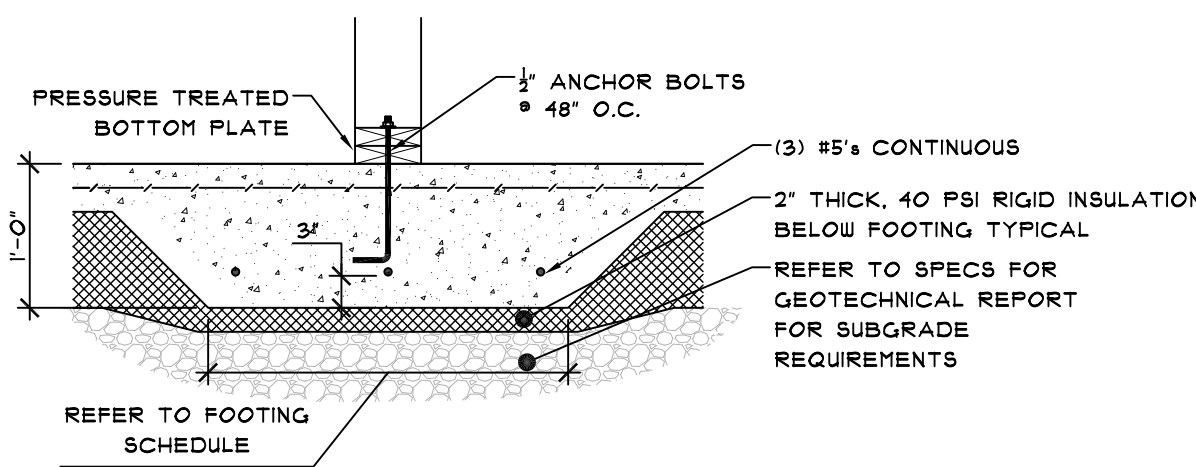
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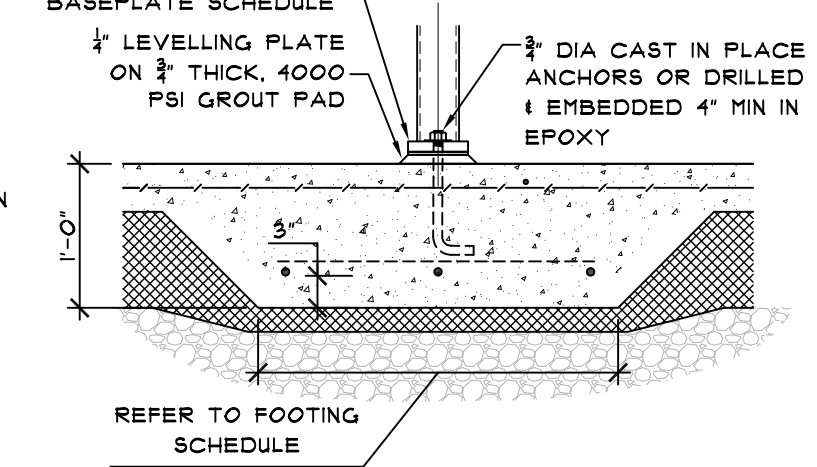
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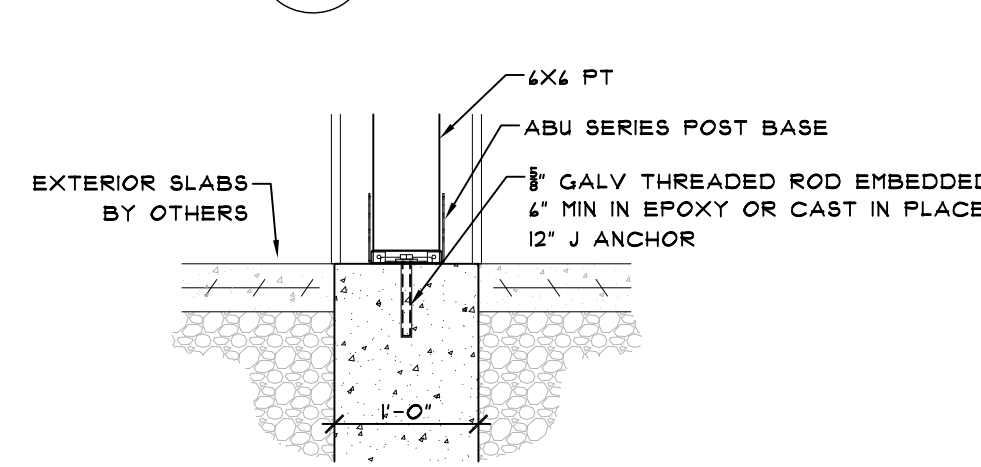
4 SECTION DETAIL  
S2.0 1/2" = 1'-0"



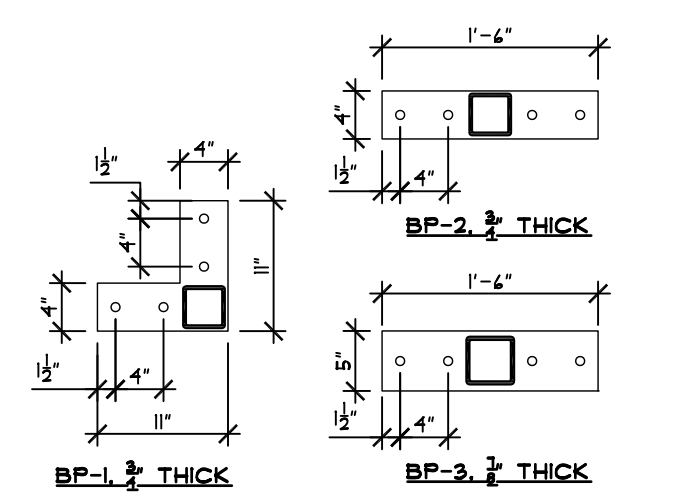
5 SECTION DETAIL  
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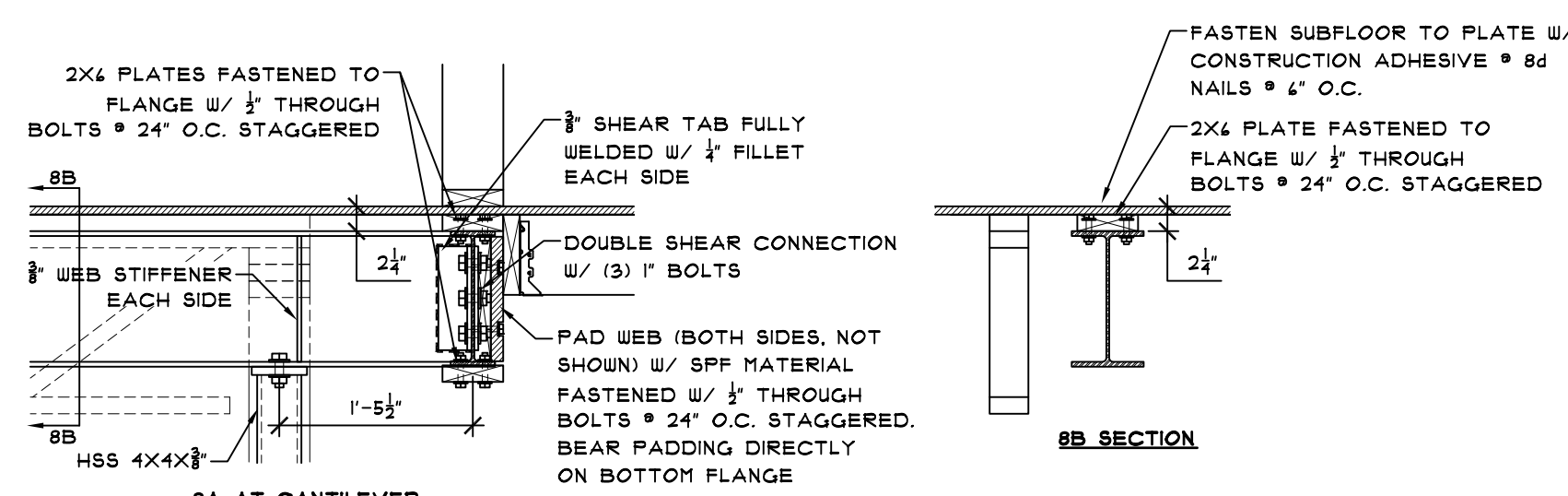
6 SECTION DETAIL  
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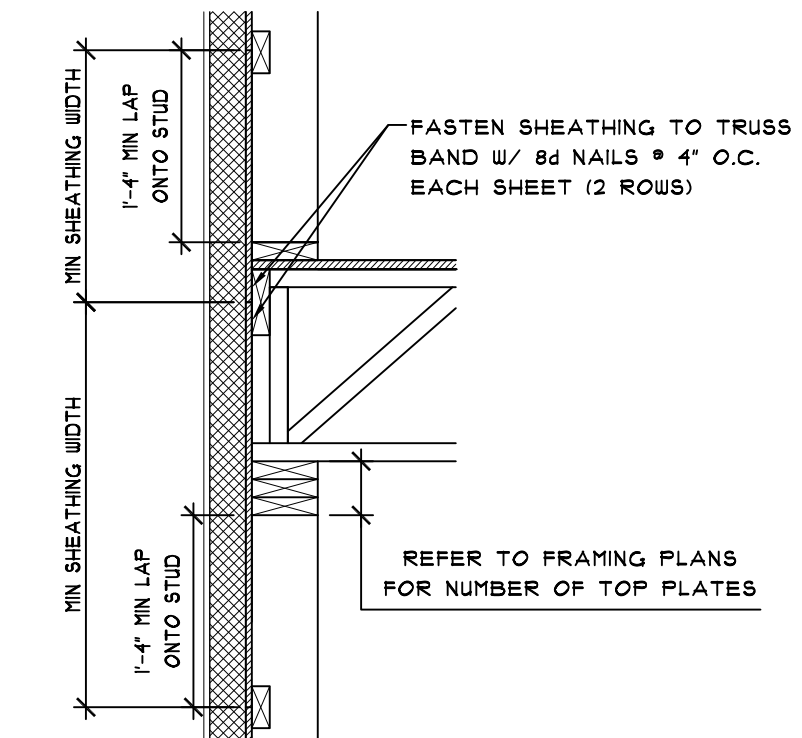
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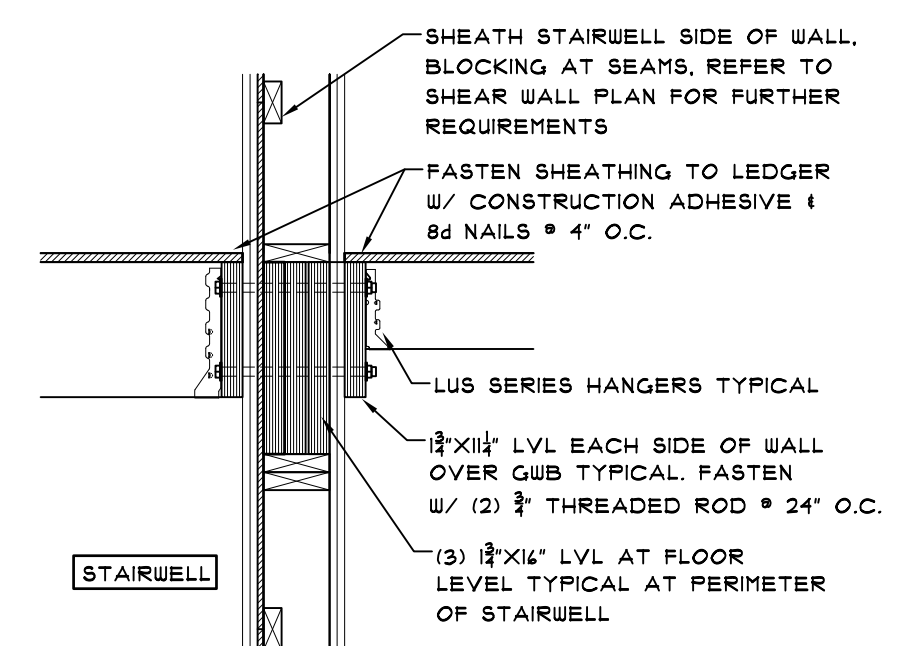
8 SECTION DETAIL  
S2.0 1/2" = 1'-0"



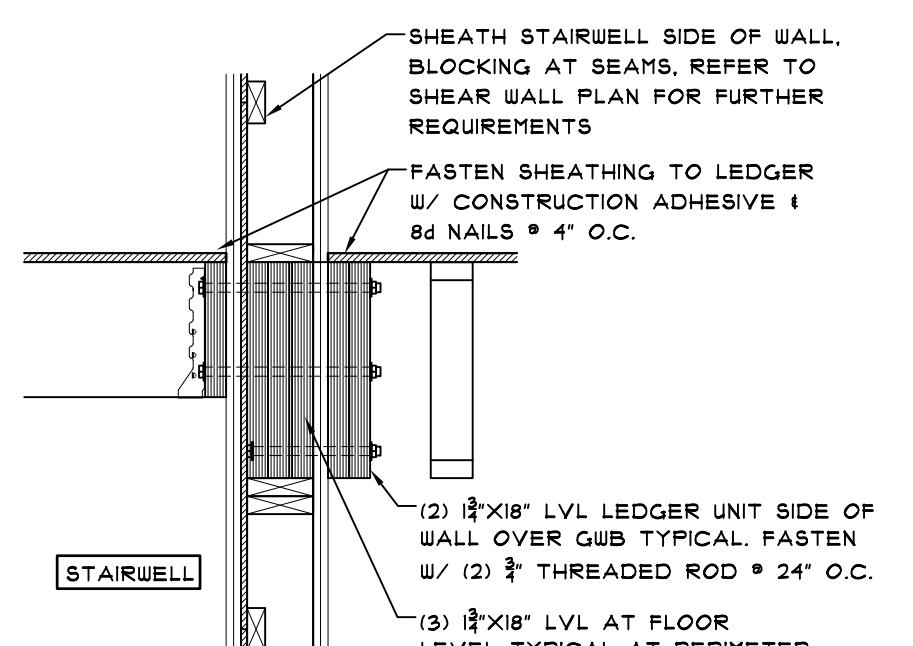
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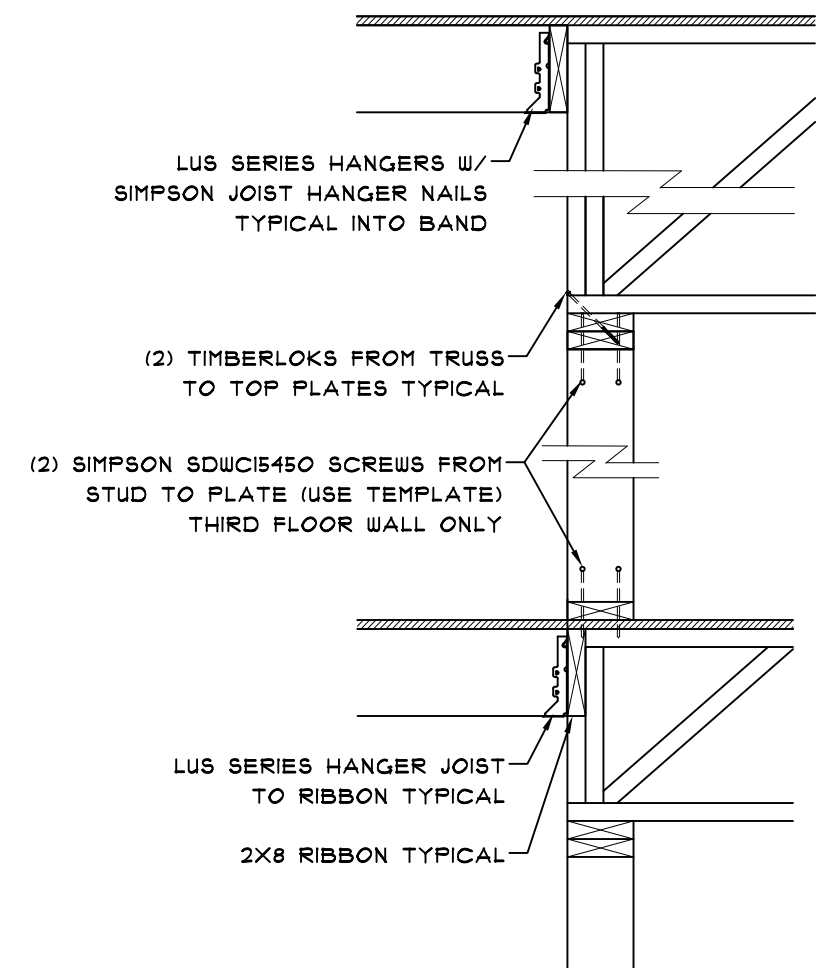
10 SECTION DETAIL  
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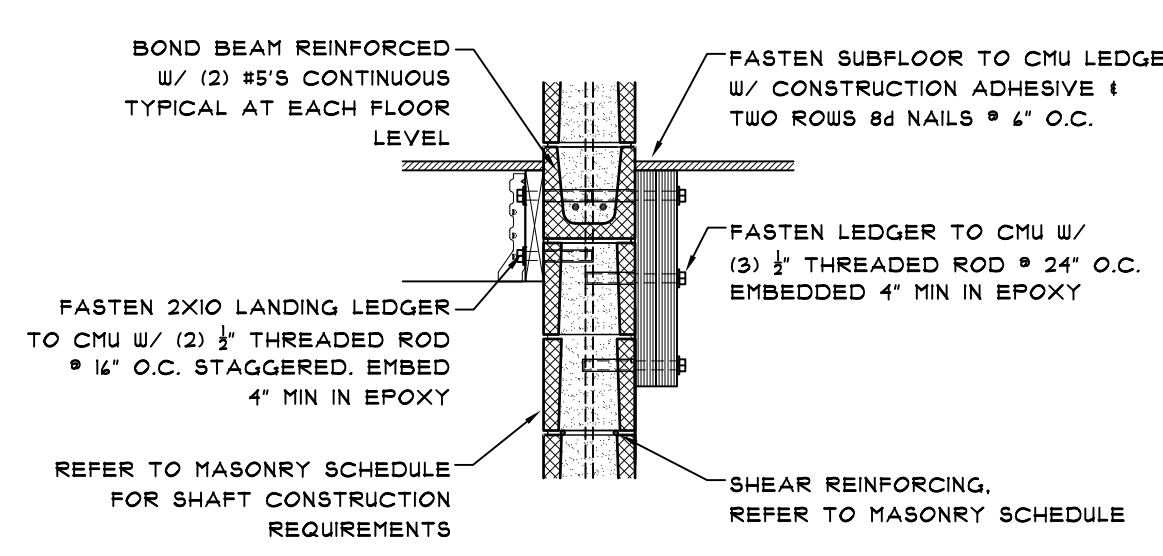
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S2.0 1/2" = 1'-0"



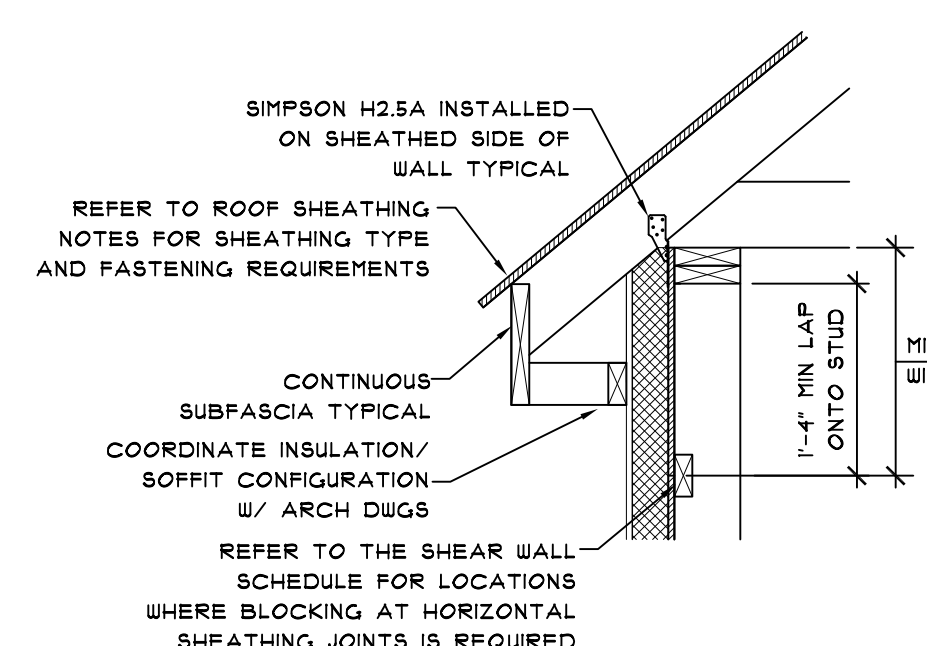
12 SECTION DETAIL  
S2.0 1/2" = 1'-0"



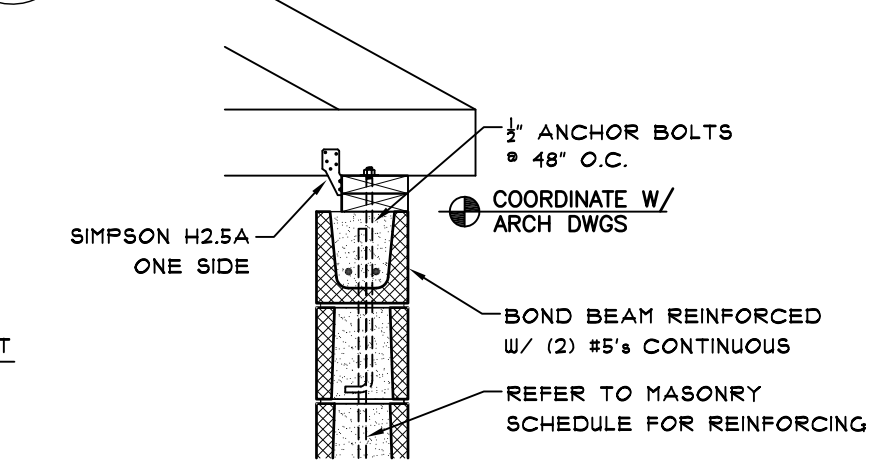
12 SECTION DETAIL  
S2.0 1/2" = 1'-0"



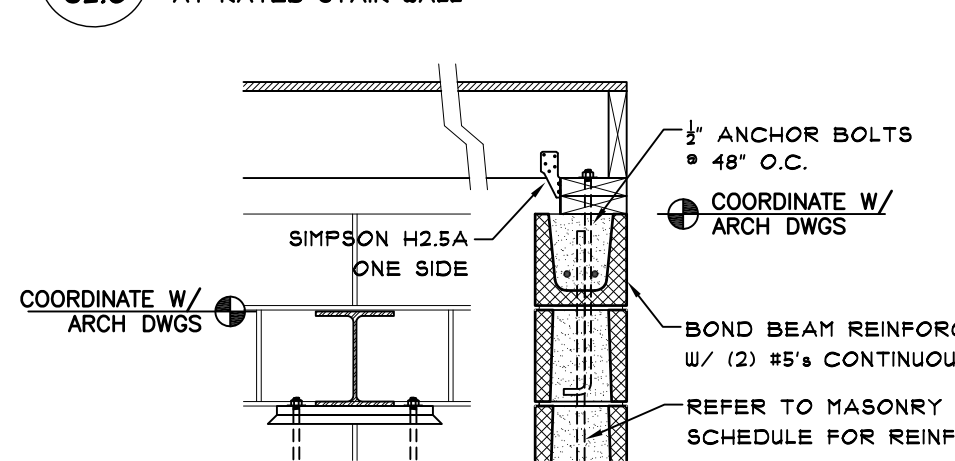
13 SECTION DETAIL  
S2.0 1/2" = 1'-0"



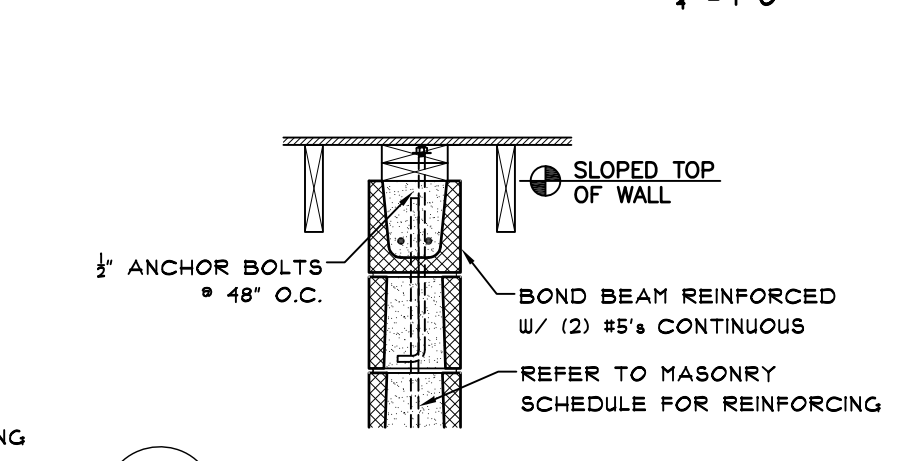
14 SECTION DETAIL  
S2.0 1/2" = 1'-0"



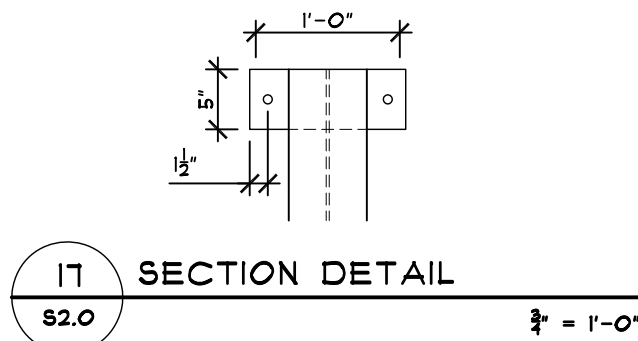
15 SECTION DETAIL  
S2.0 1/2" = 1'-0"



16 SECTION DETAIL  
S2.0 1/2" = 1'-0"



18 SECTION DETAIL  
S2.0 1/2" = 1'-0"



17 SECTION DETAIL  
S2.0 1/2" = 1'-0"

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**Ed Wojcik**  
architect, ltd  
One Richmond Square  
Providence, RI 02906  
401-861-7139

**YODER + TIDWELL**  
engineers  
333 Smith Street  
Providence, RI 02908  
401-252-2468 (ext)  
401-274-7317 (fax)  
www.yoder-tidwell.com

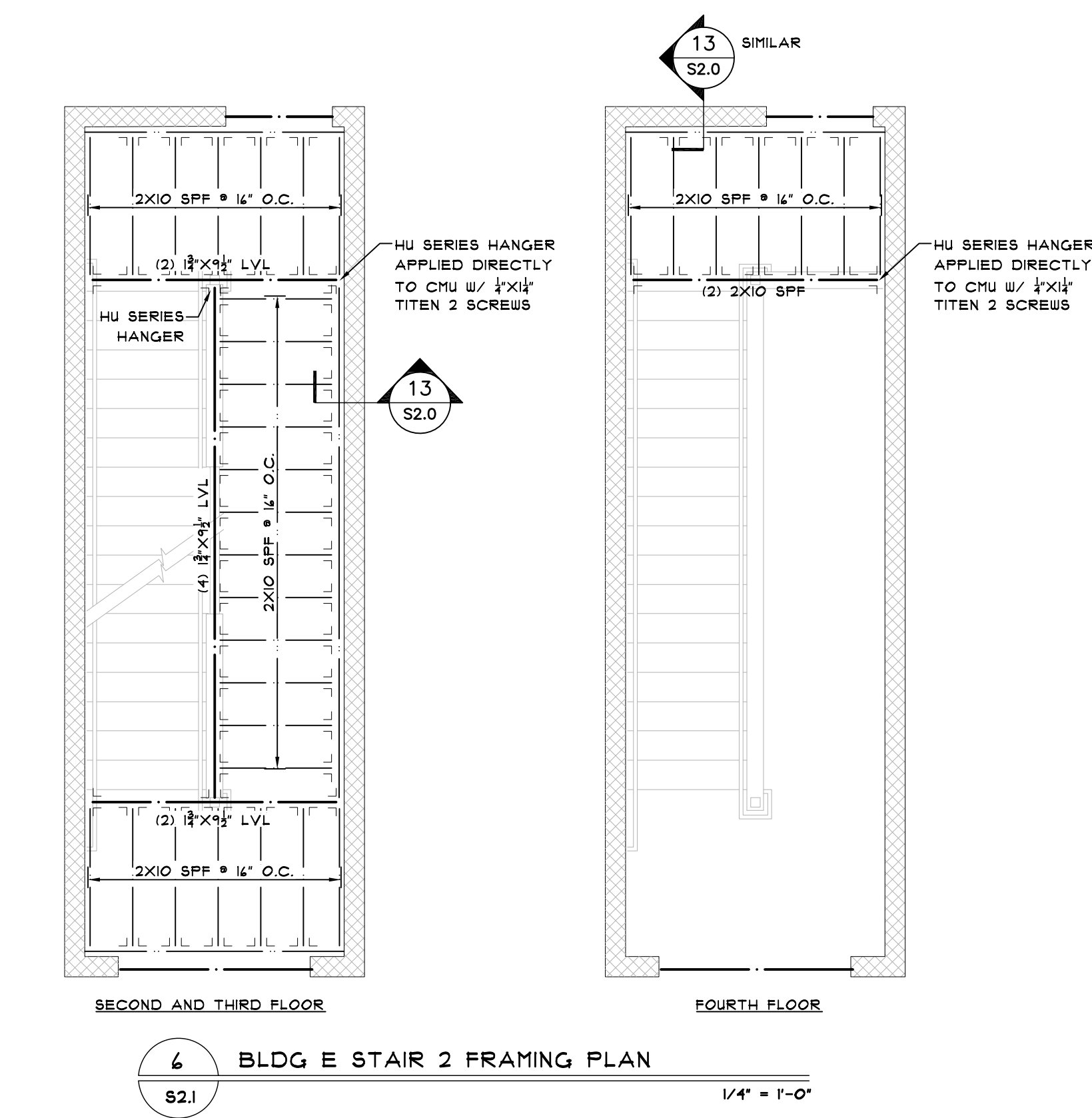
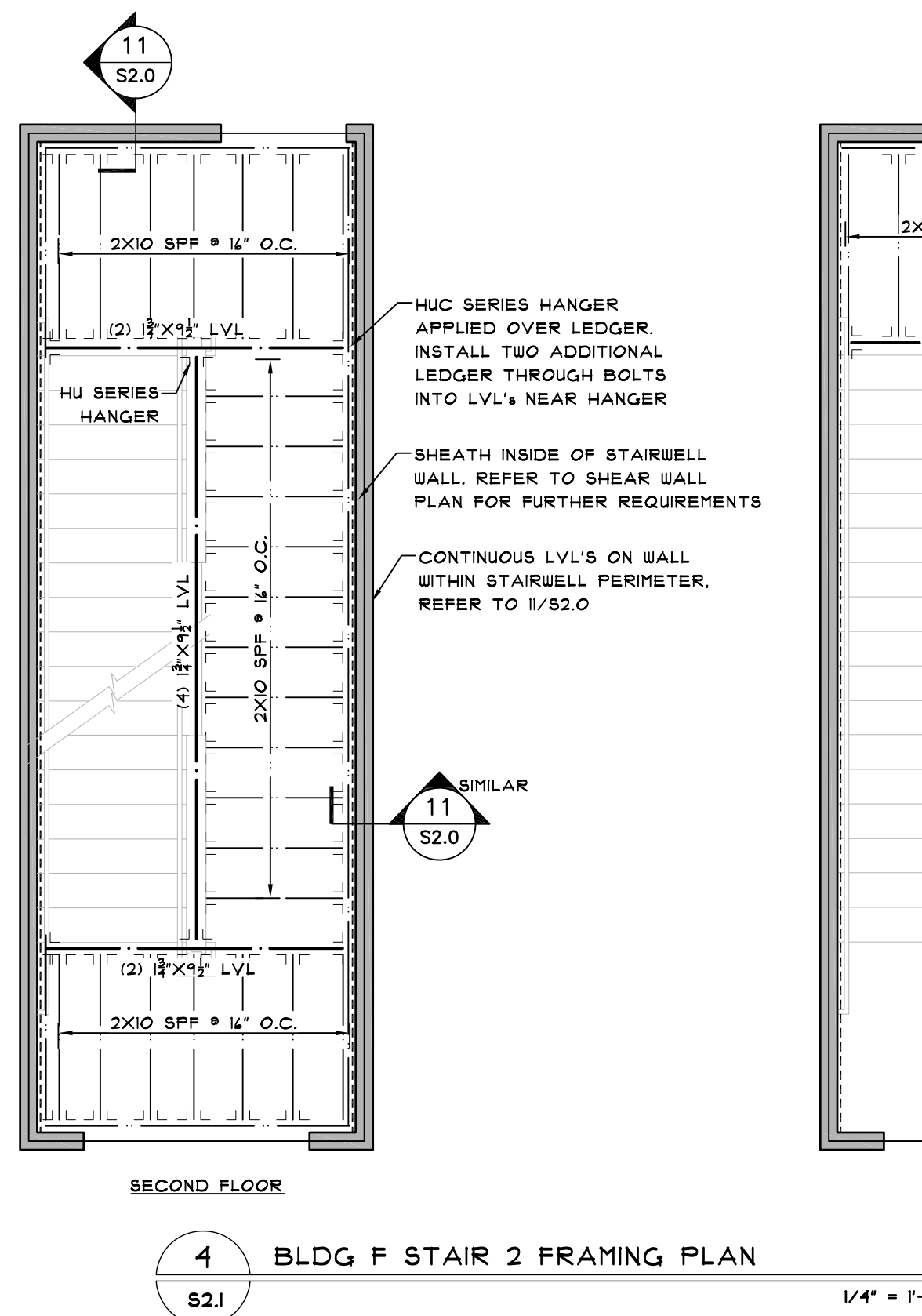
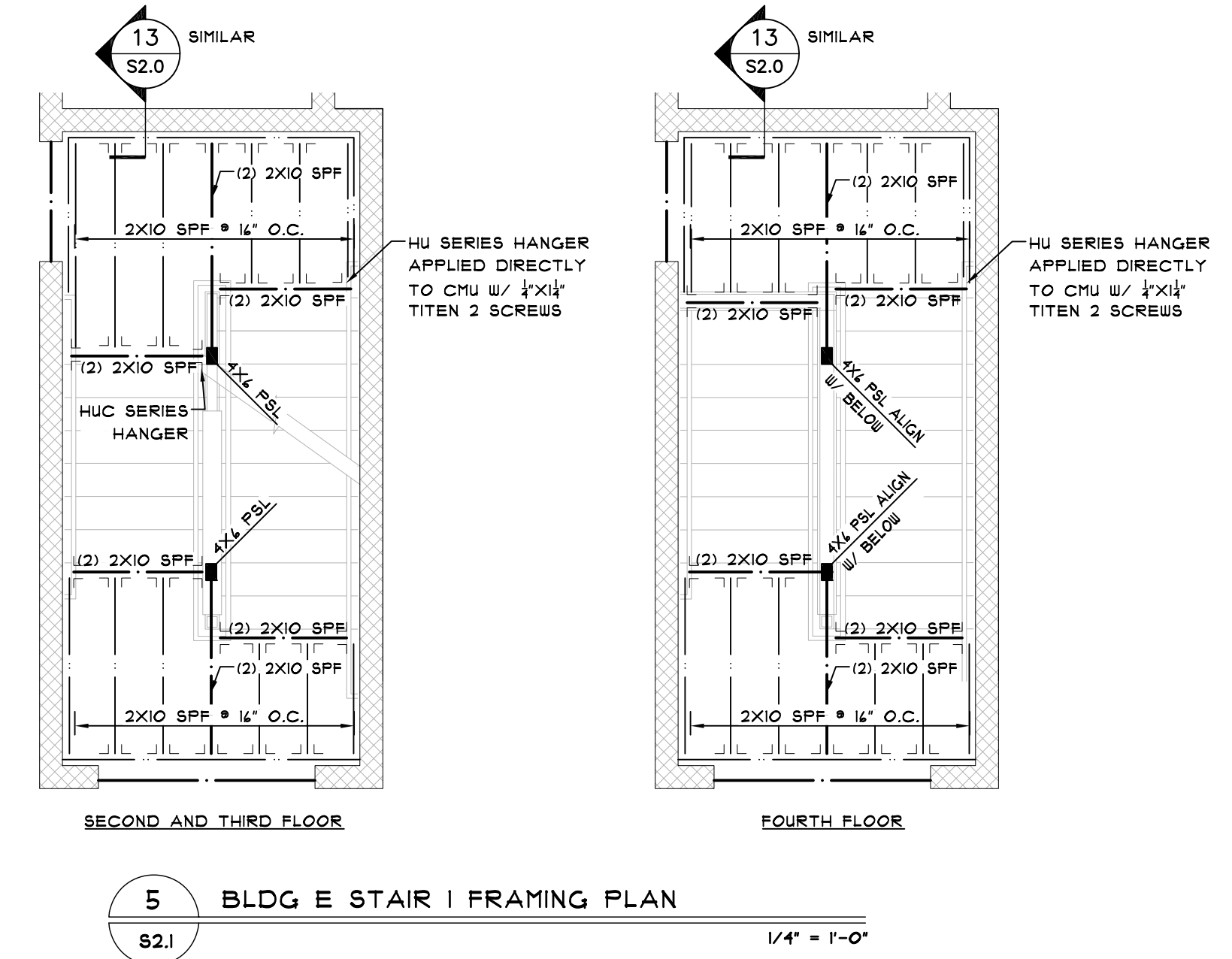
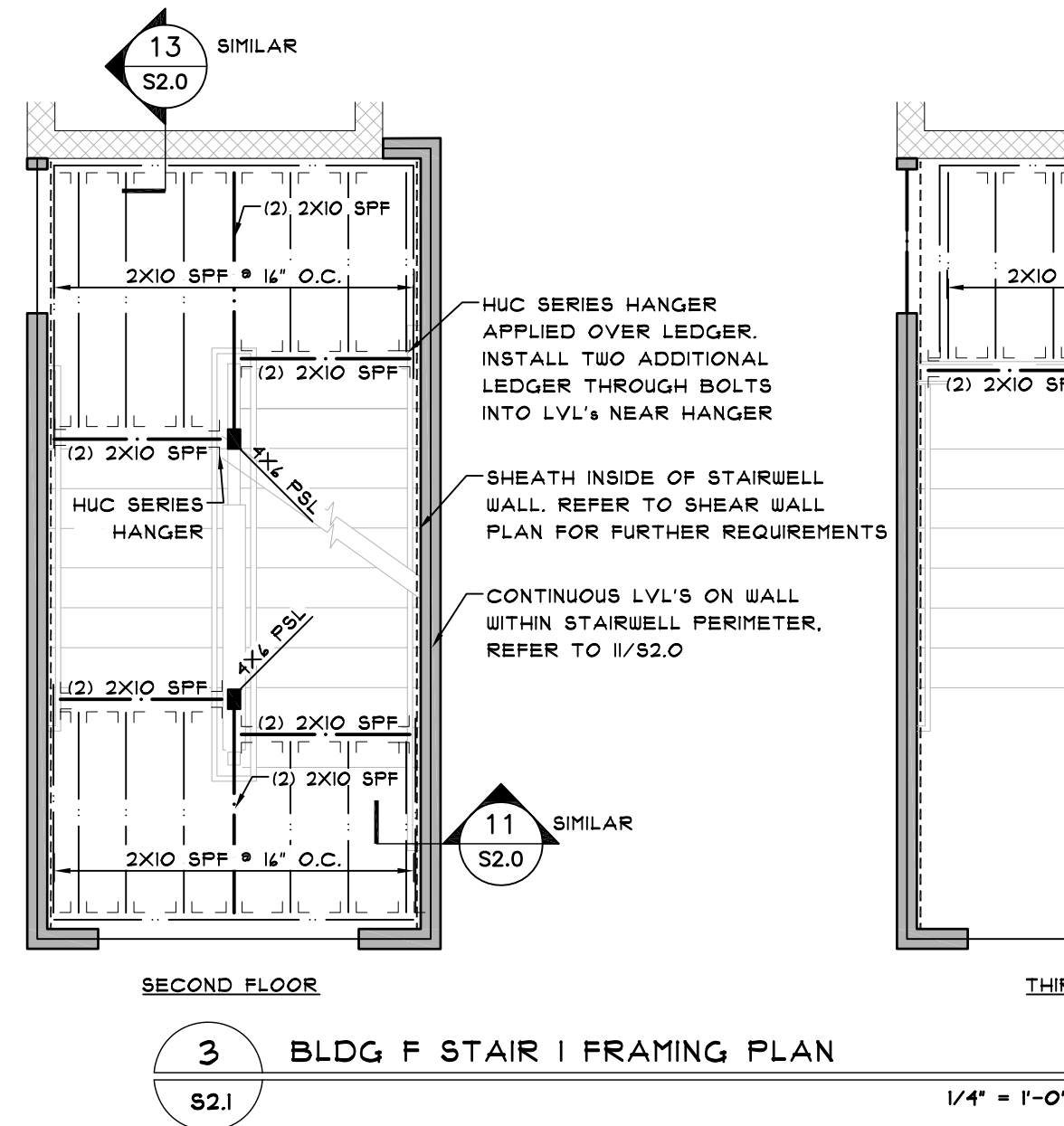
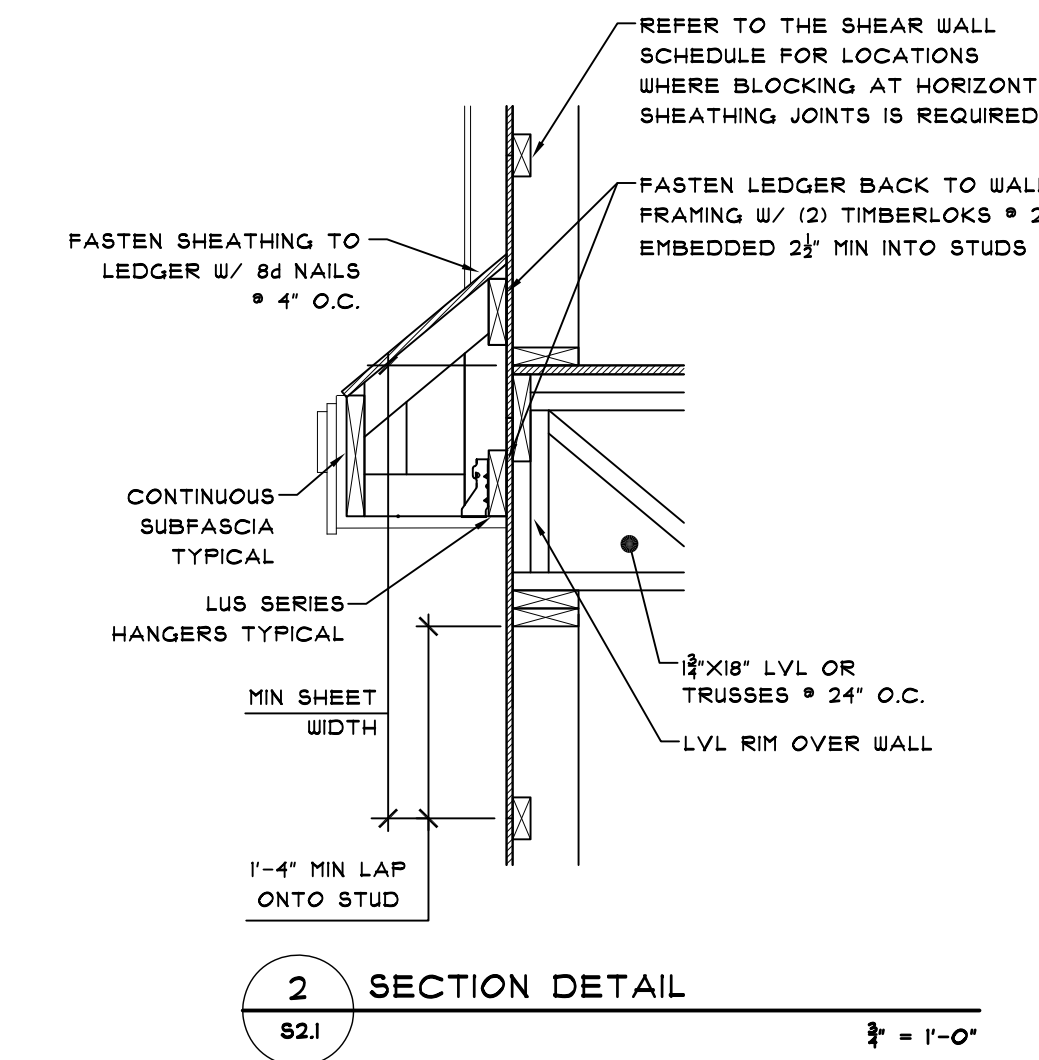
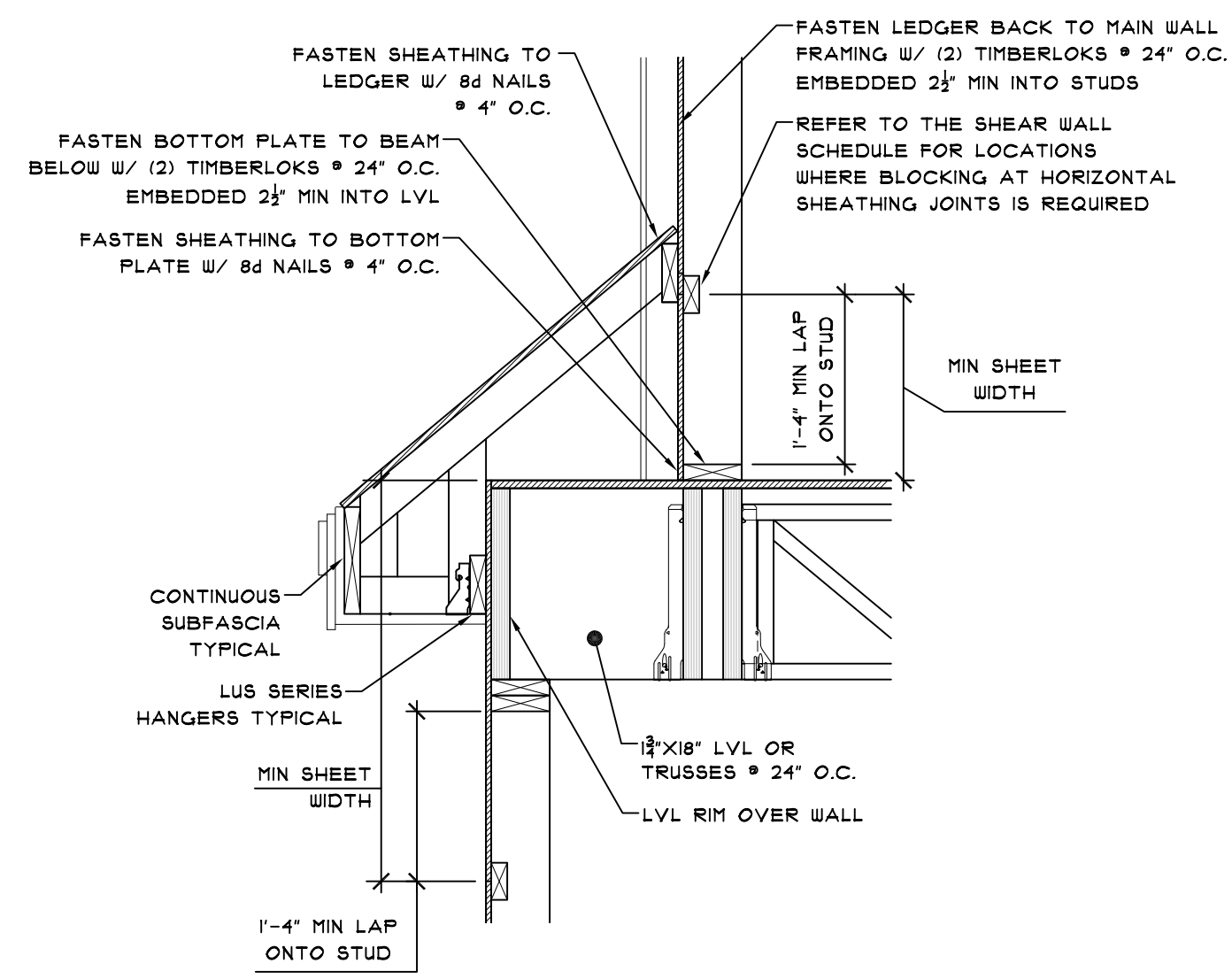
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**Woodland Cove**  
Phase I  
Buildings E, F, & COMMUNITY BUILDING  
3102 Cranberry Highway  
Wareham, MA 02532



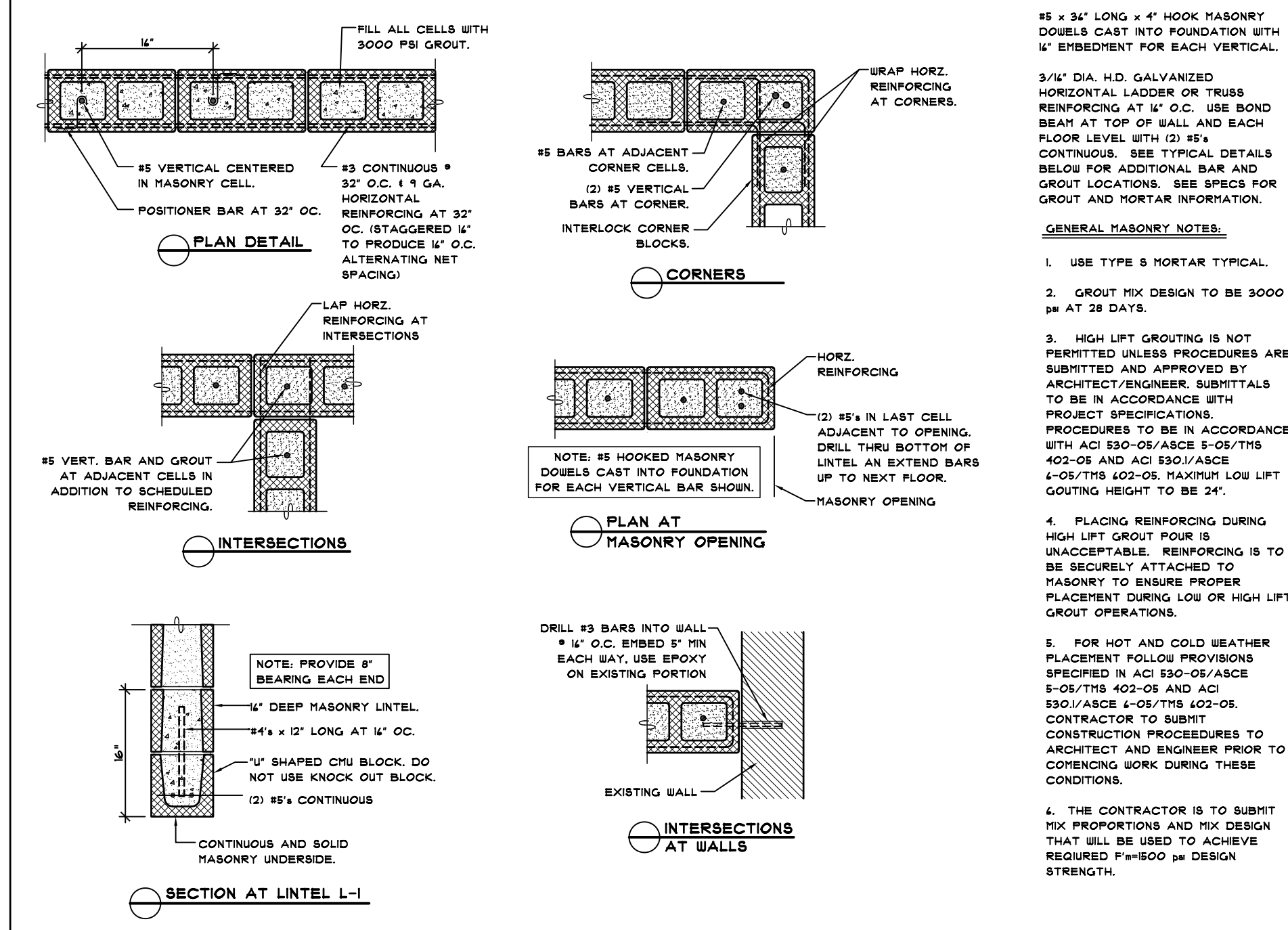
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DETAILS

PROJECT # 1420  
DATE: 9/22/2020  
REVISED DATE:  
△ REVISED: 02/16/2021

**S2.0**

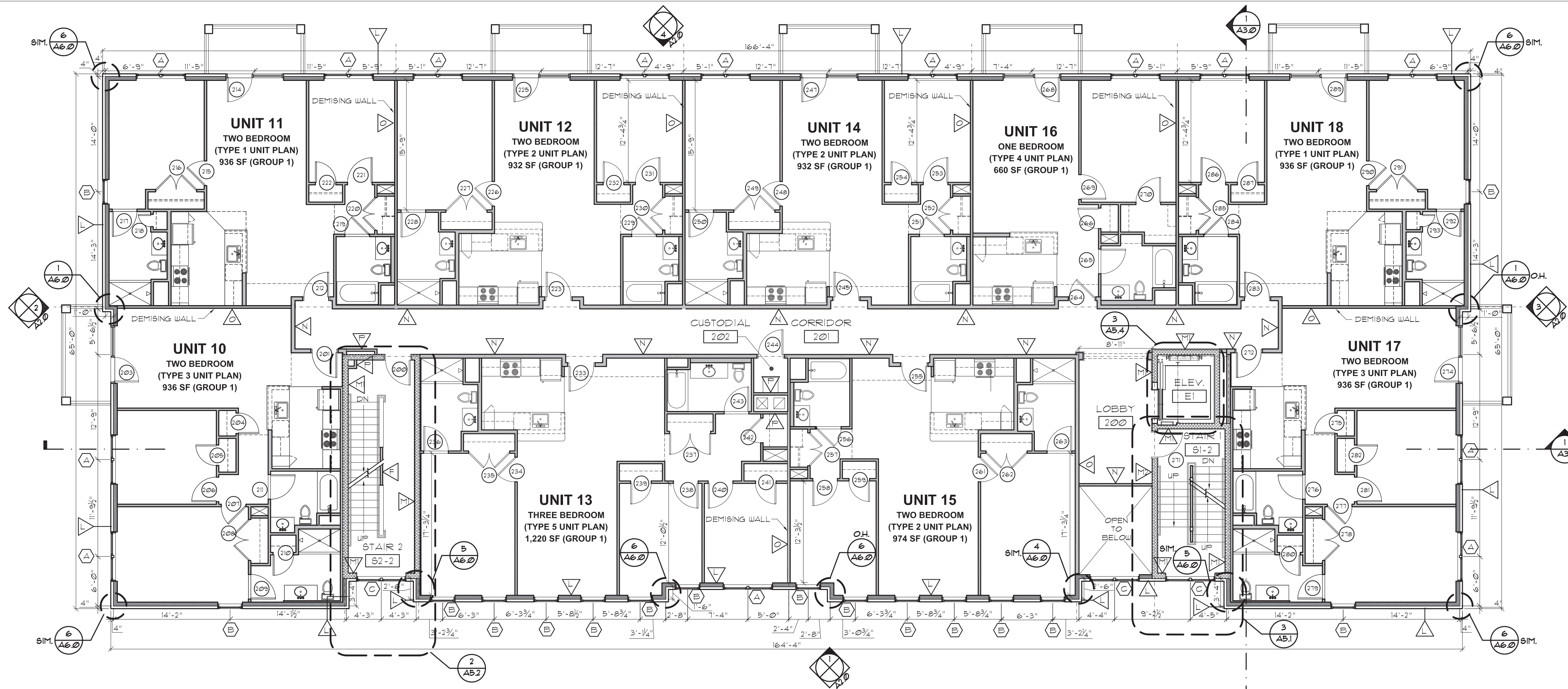


**MASONRY REINFORCING SCHEDULE**

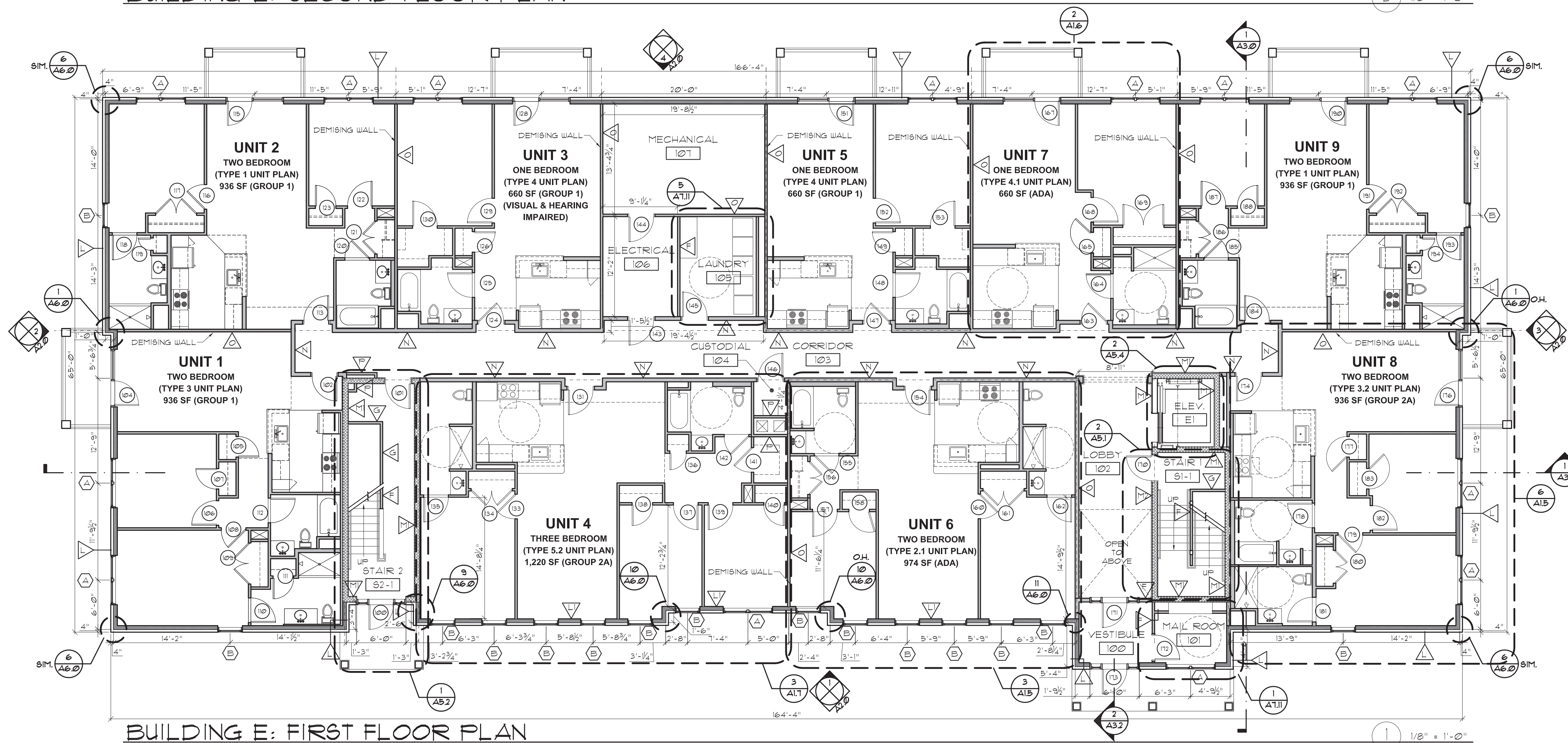


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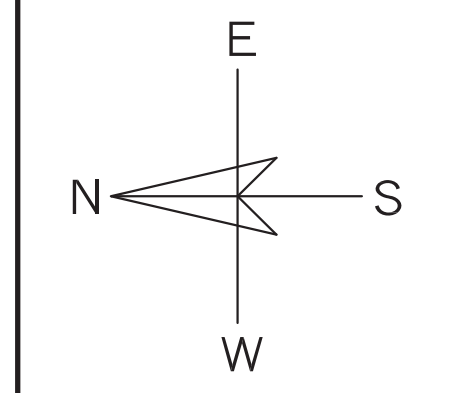




BUILDING E: SECOND FLOOR PLAN



BUILDING E: FIRST FLOOR PLAN



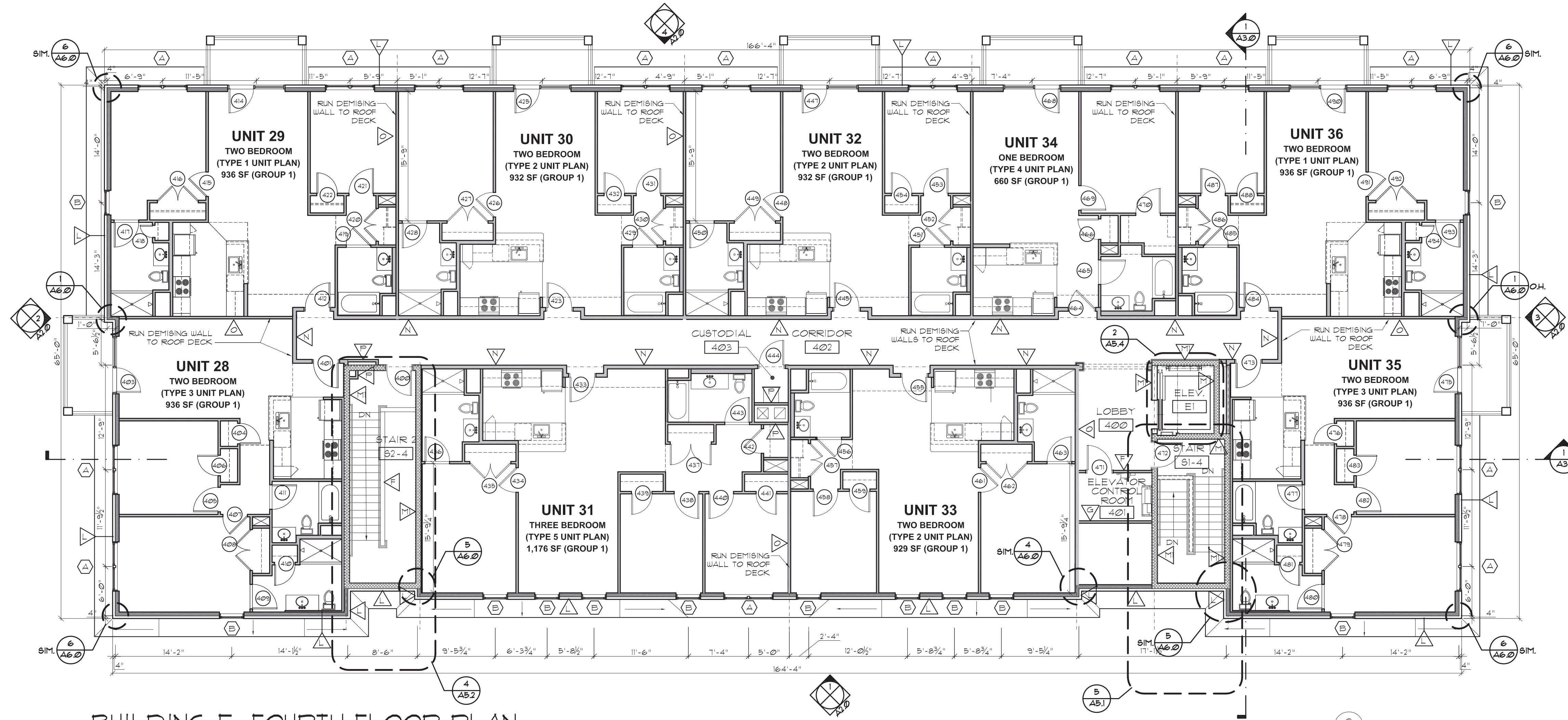
SHEET CONTENTS:  
Building E:  
First and Second  
Floor Plans

PROJECT # 1420  
DATE: 9/22/2020  
REVISED DATE:  
REVISED: 02/16/2021

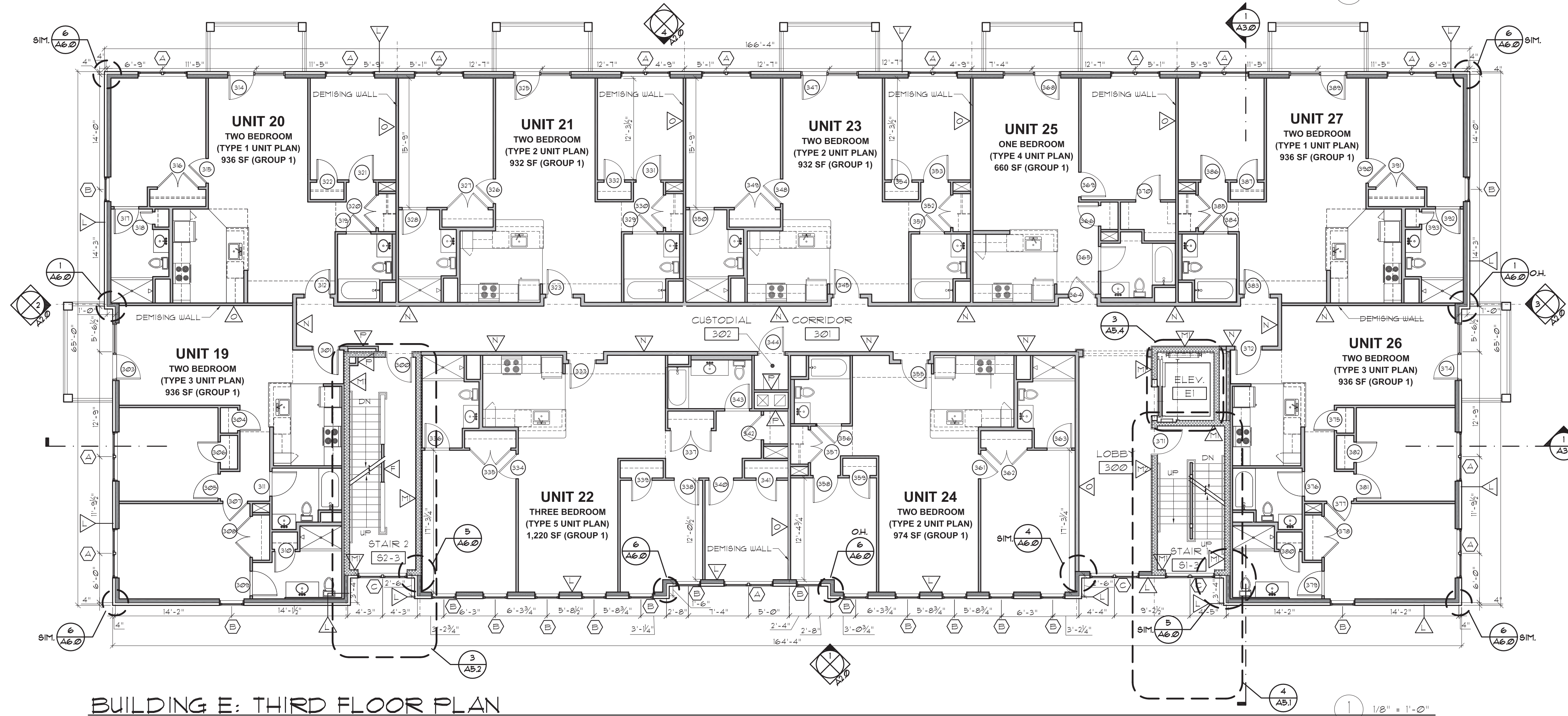
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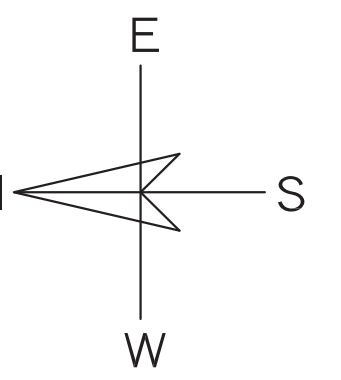
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BUILDING E: FOURTH FLOOR PLAN



BUILDING E: THIRD FLOOR PLAN



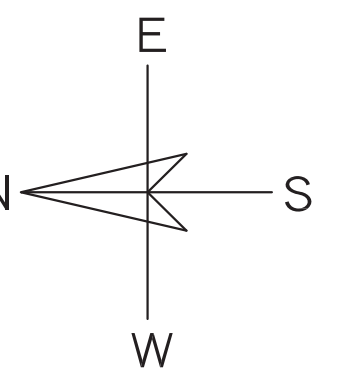
SHEET CONTENTS:  
Building E:  
Second and Third  
Floor Plans

PROJECT # 1420

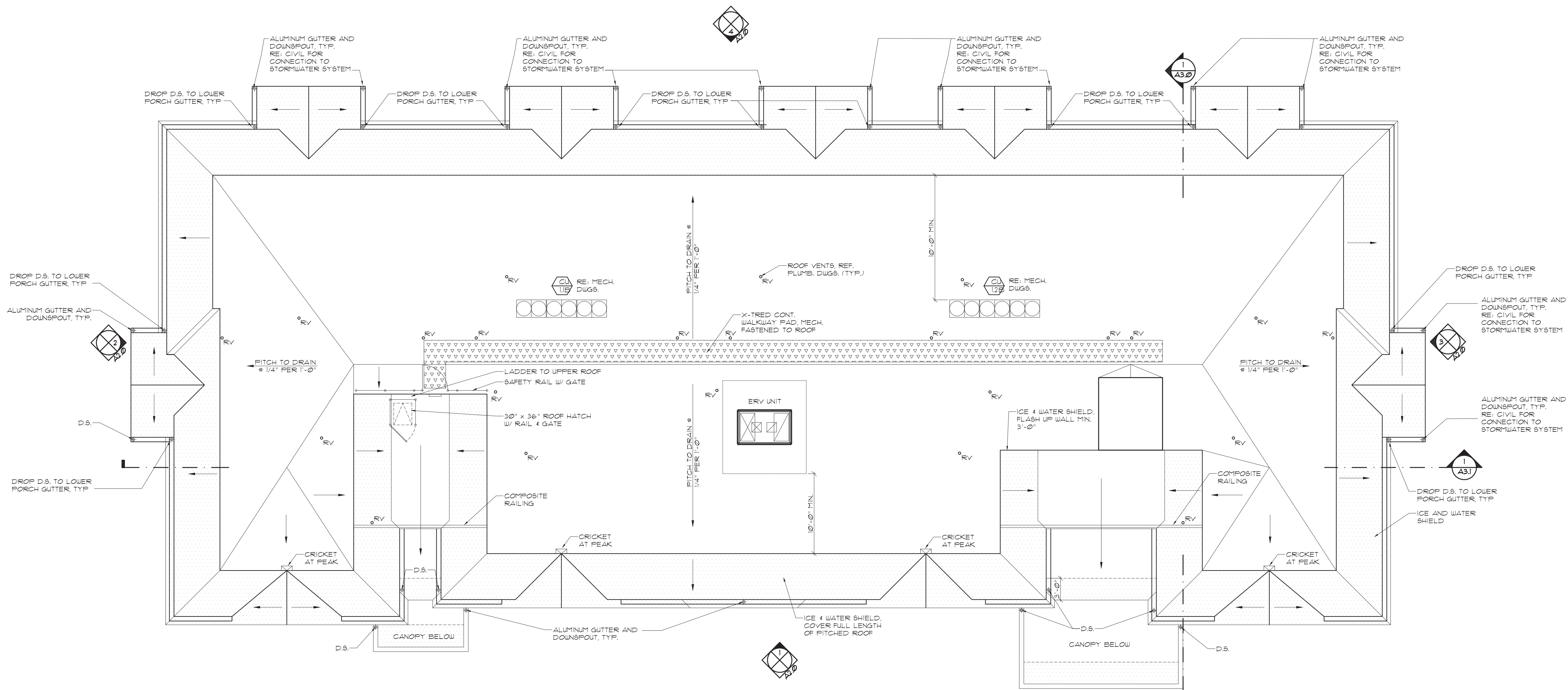
DATE: 9/22/2020  
REVISED DATE:  
REVISED: 02/16/2021

**A1.1**

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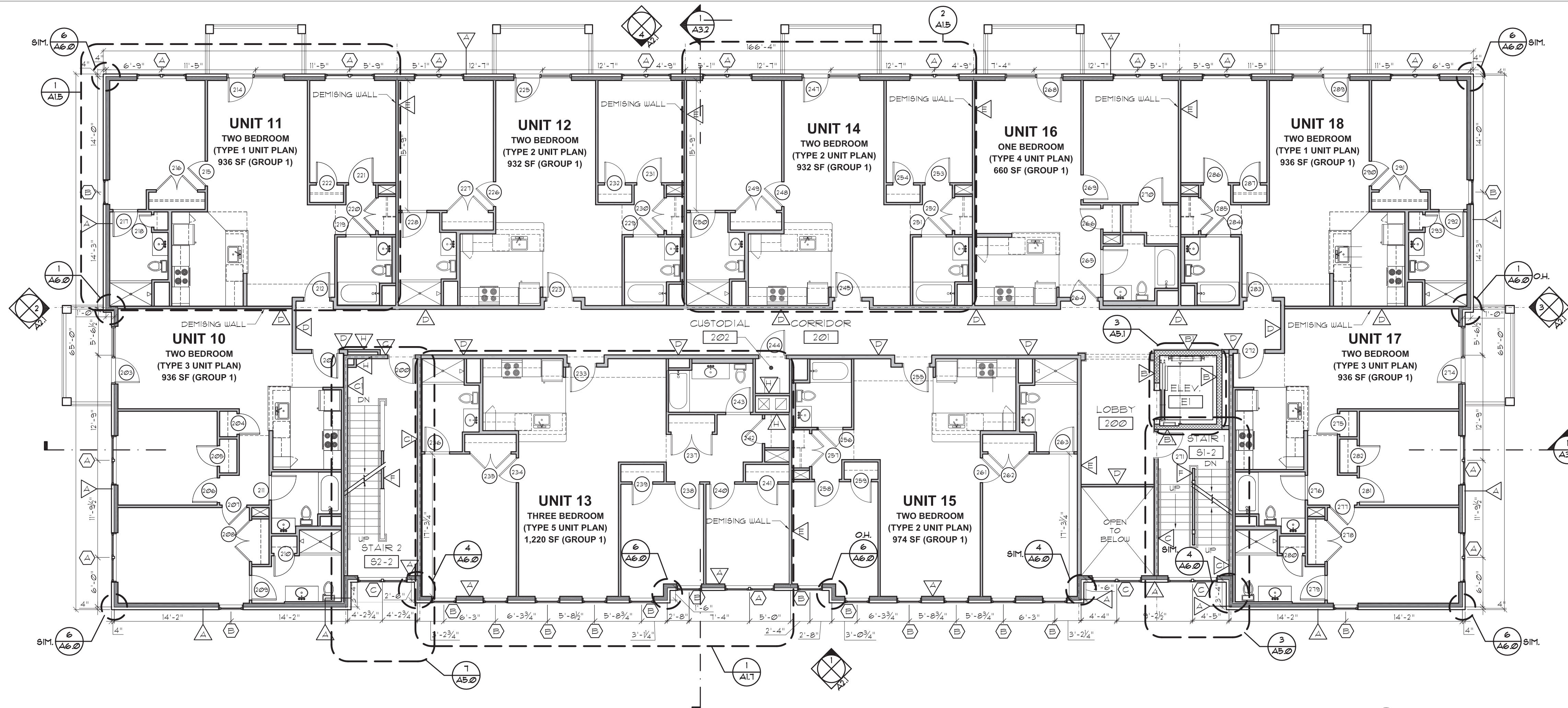
CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021



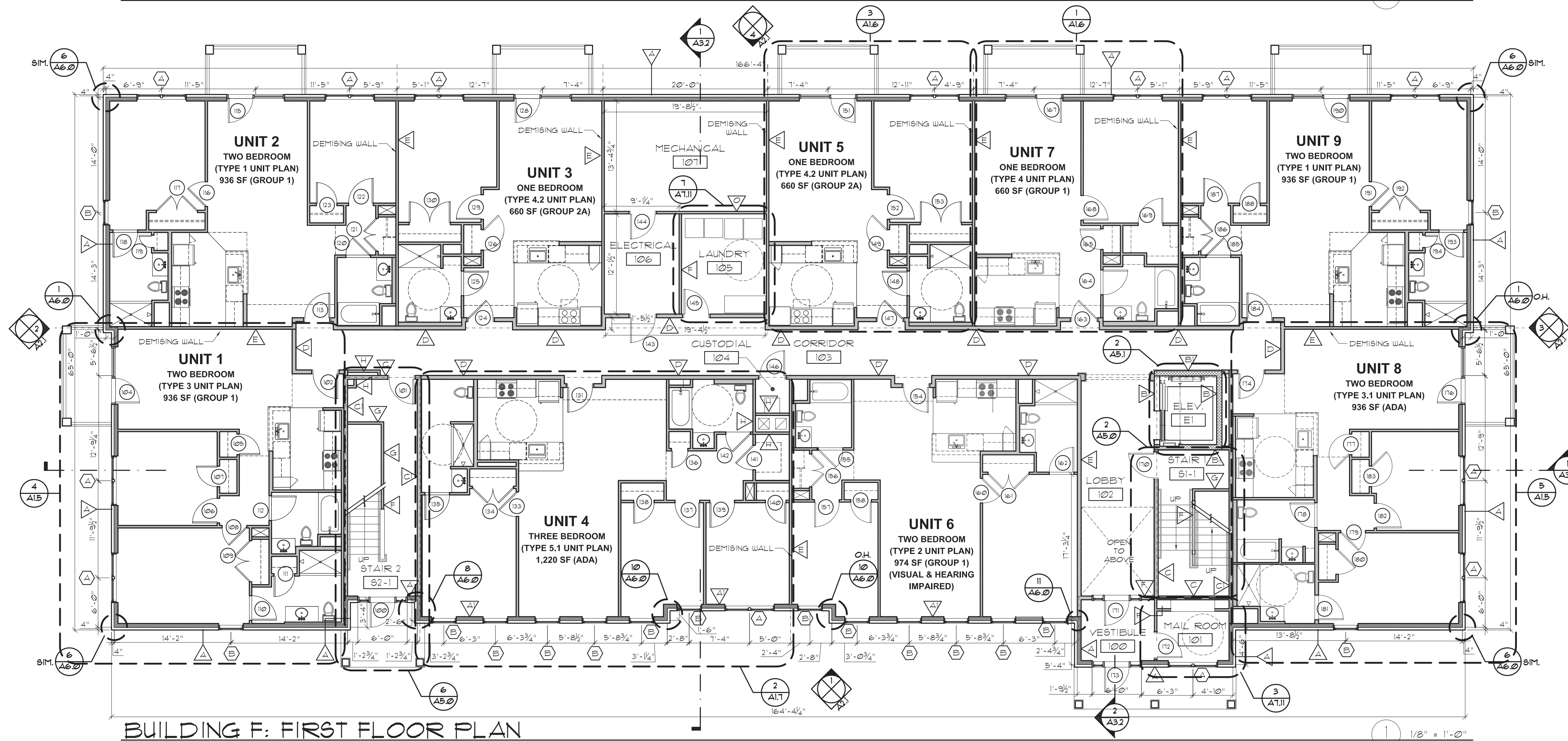
**BUILDING E: ROOF PLAN**

1/8" = 1'-0"

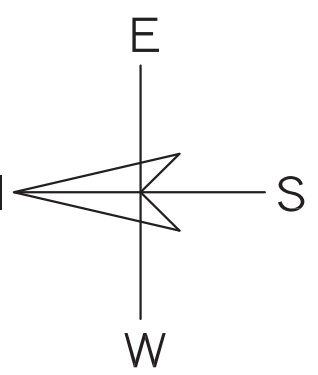
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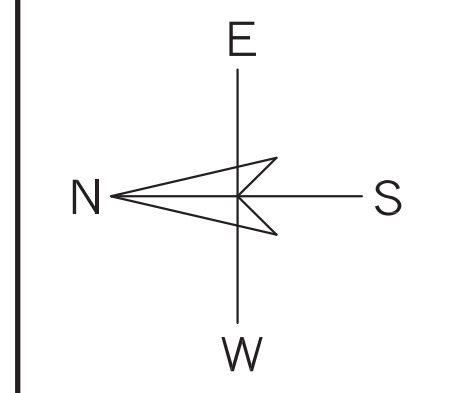
BUILDING F: SECOND FLOOR PLAN



BUILDING F: FIRST FLOOR PLAN



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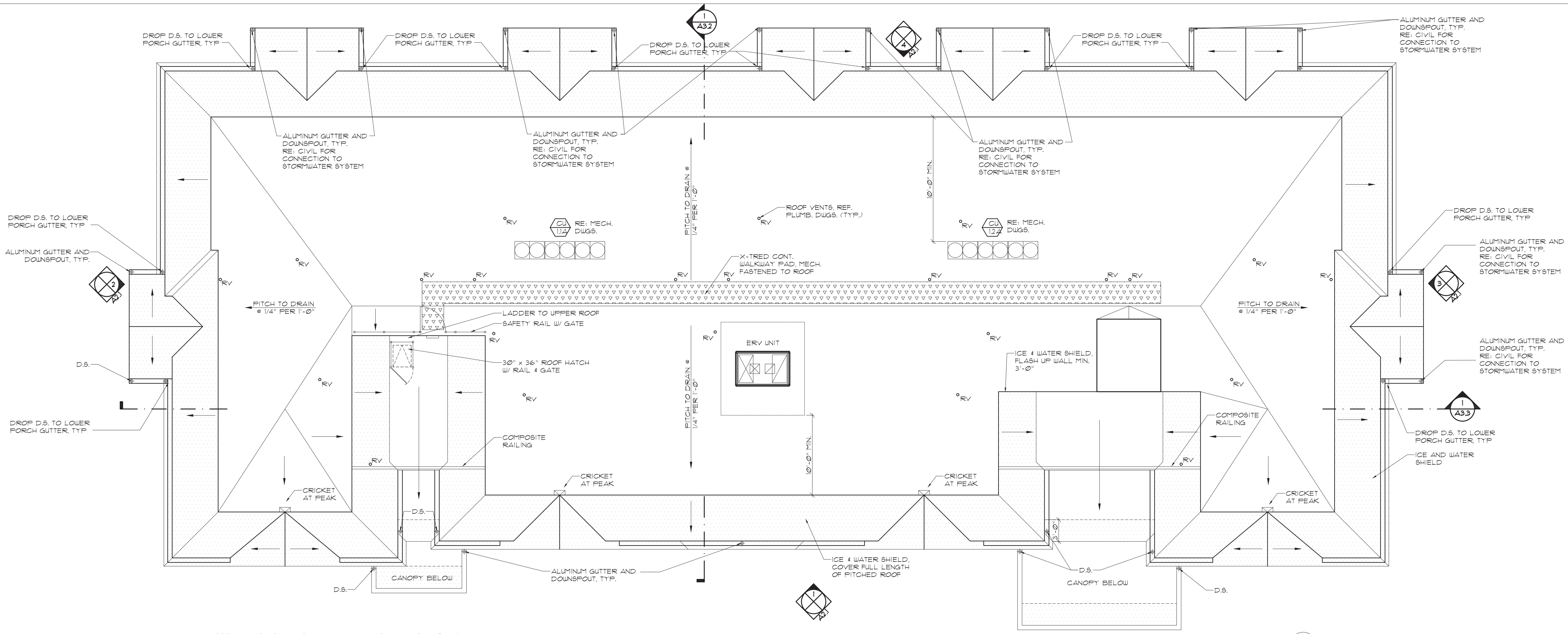
SHEET CONTENTS:  
Building F:  
Third Floor Plan  
& Roof Plan

PROJECT # 1420

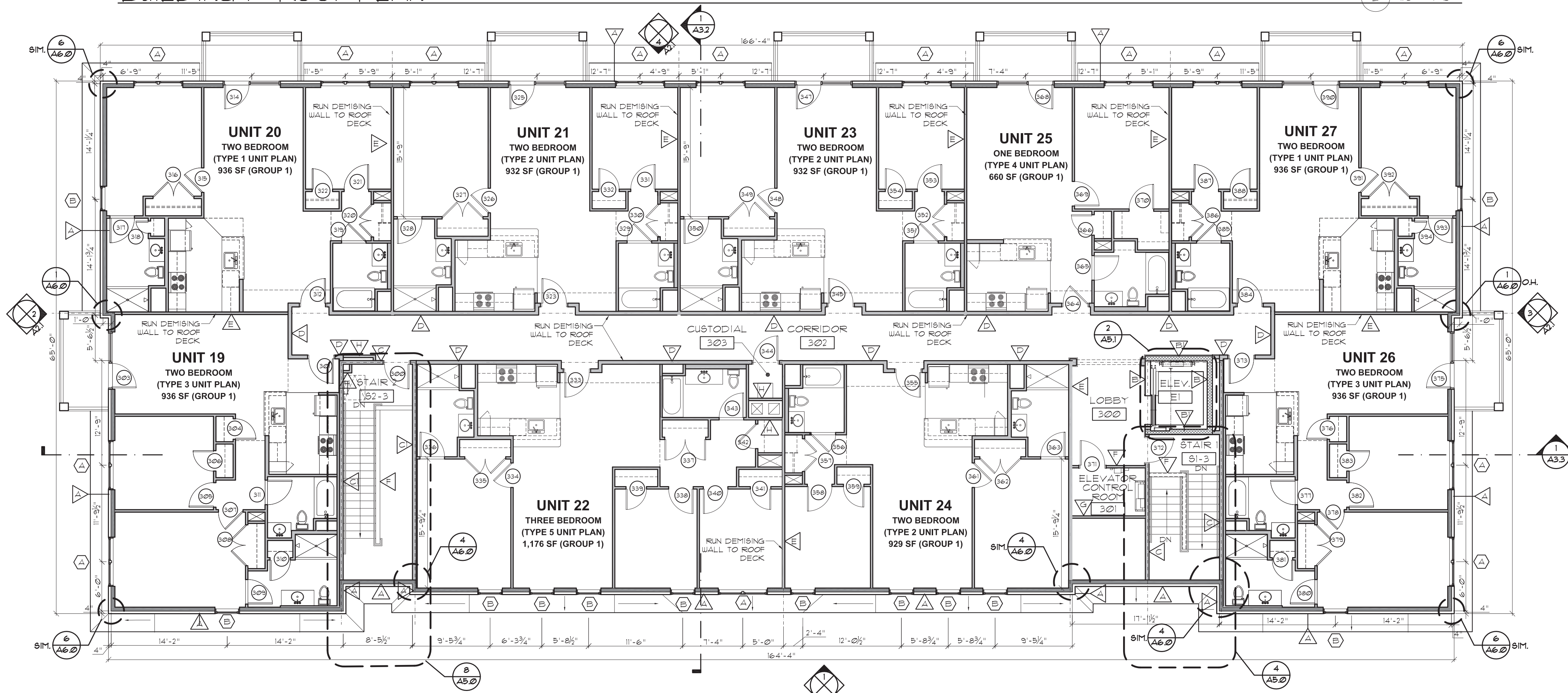
DATE: 9/22/2020  
REVISED DATE:  
REVISED: 02/16/2021

**A1.4**

CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021



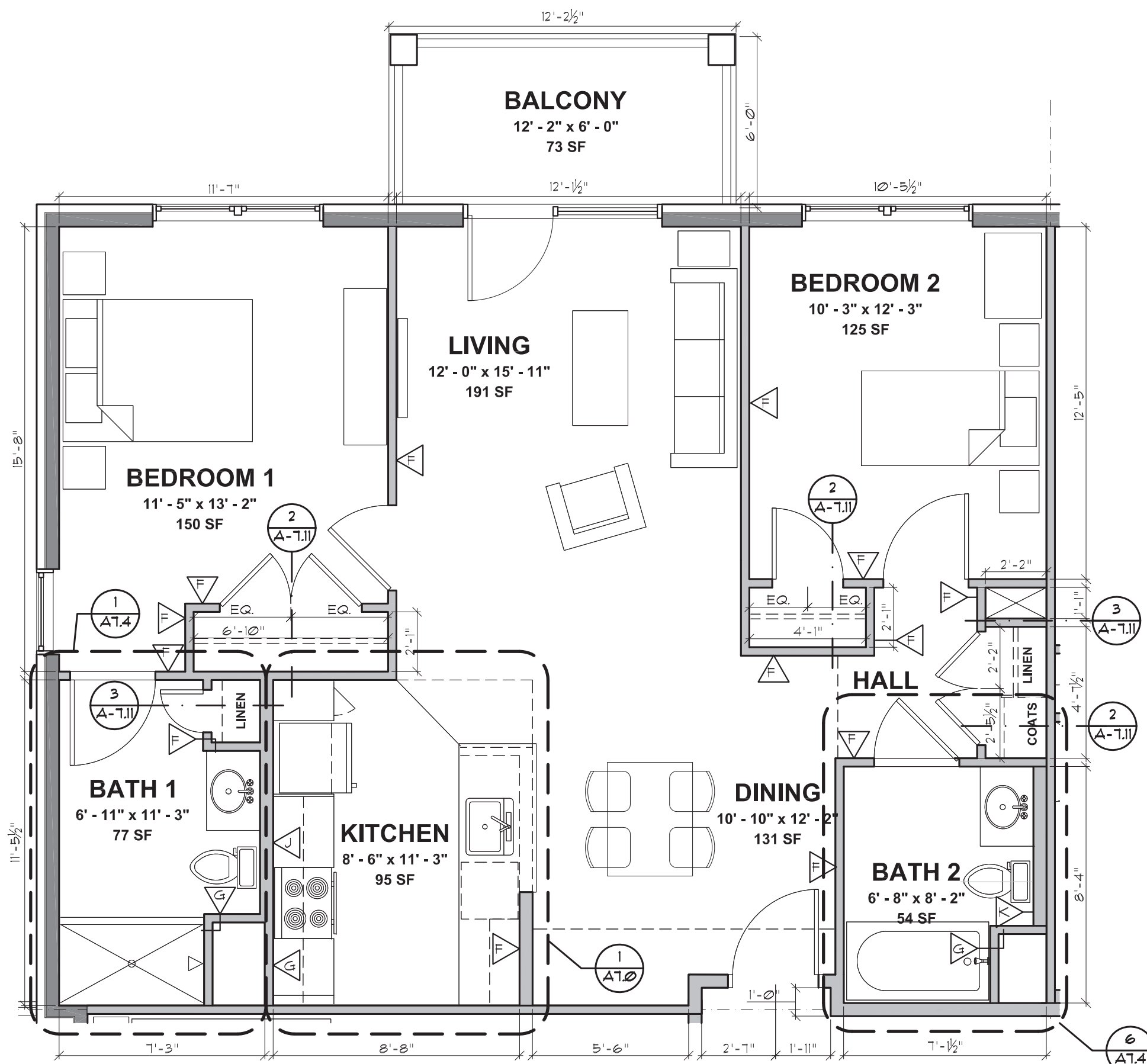
BUILDING F: ROOF PLAN



BUILDING F: THIRD FLOOR PLAN

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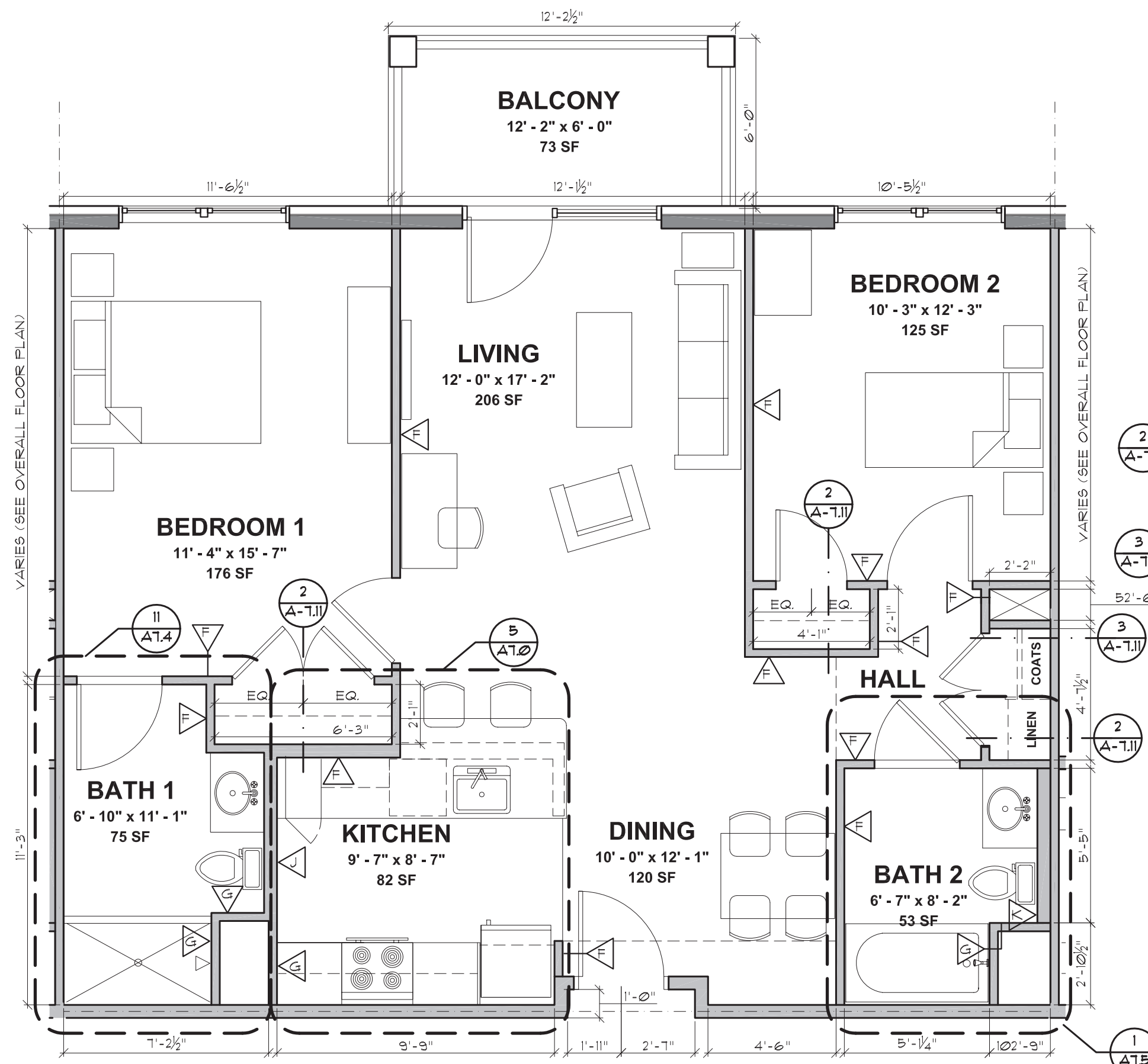




TYPE 1 UNIT PLAN TYPICAL

TWO BEDROOM: GROUP 1

1 1/4" = 1'-0"

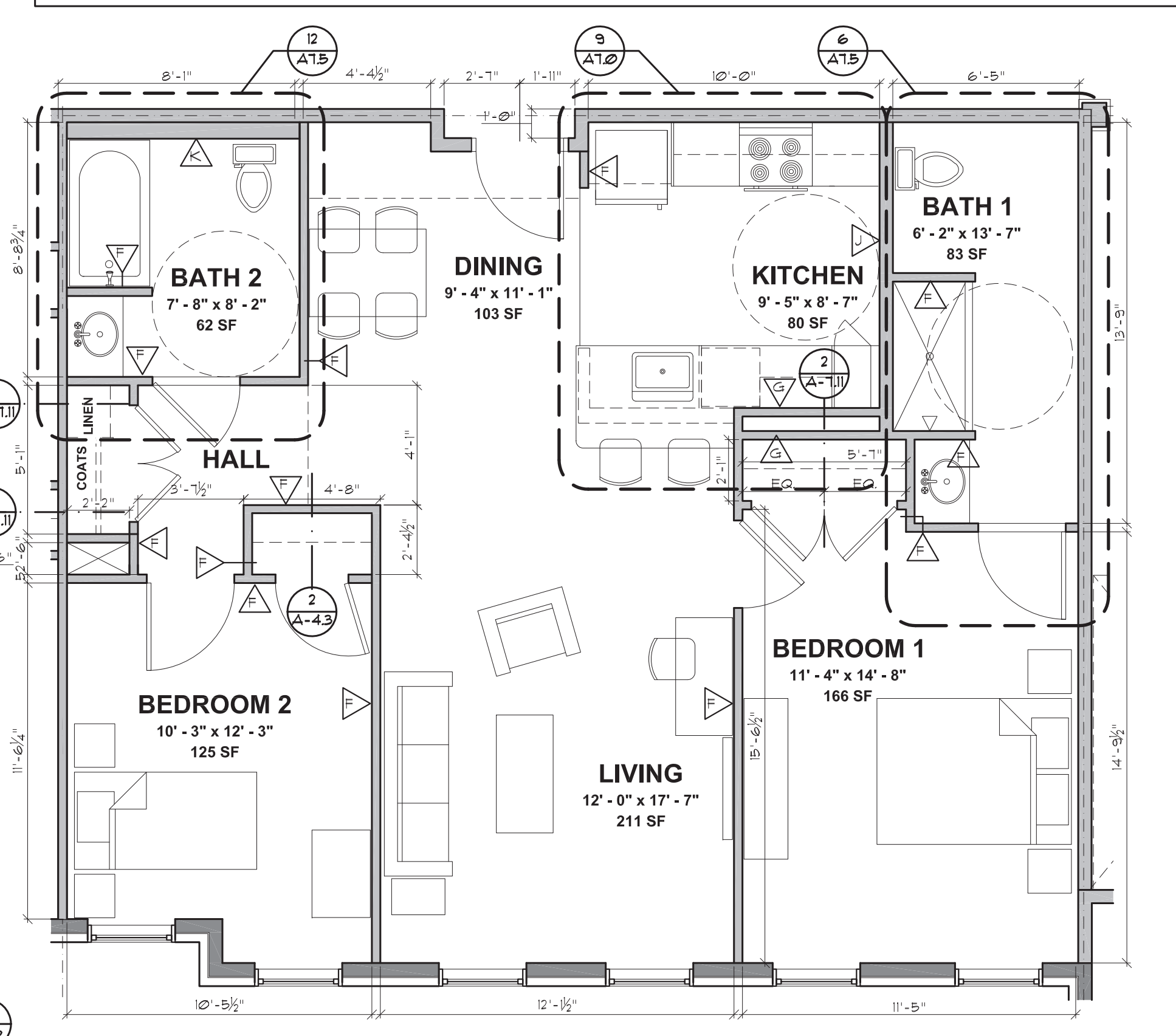


TYPE 2 UNIT PLAN TYPICAL

TWO BEDROOM: GROUP 1

2 1/4" = 1'-0"

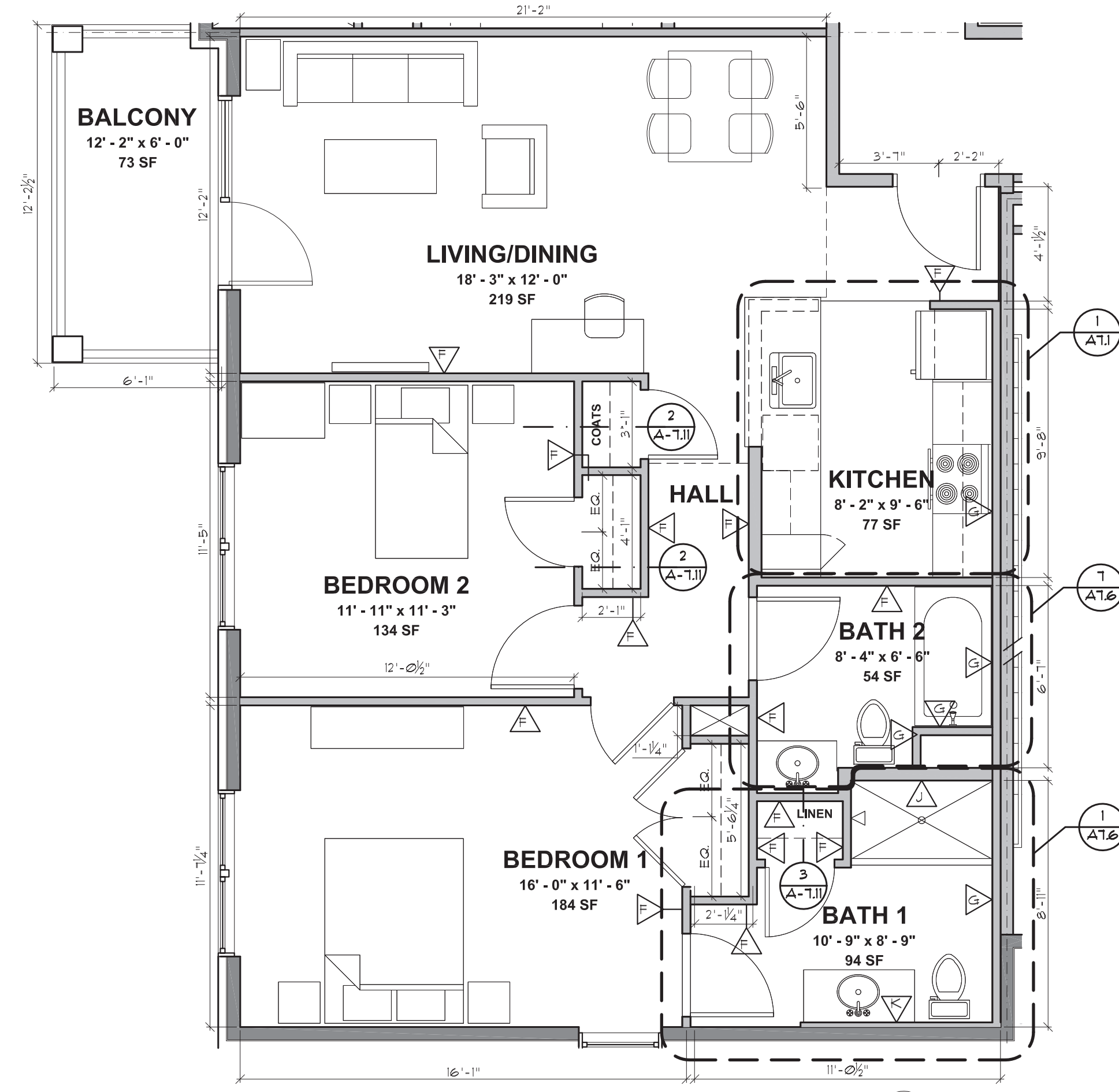
- FINISH NOTES:**
- TRANSITION STRIPS AT ALL CHANGES IN FLOORING FINISHES. CHANGE IN LEVEL IN FLOOR SURFACES SHALL NOT EXCEED 1/4" AND SLOPE OF THRESHOLD SHALL NOT BE GREATER THAN 1:2, IN COMPLIANCE WITH THE AMERICAN DISABILITIES ACT
  - DO NOT PAINT ALUMINUM DOORS
  - ALL FLOOR FINISHES TO CONTINUE INTO ADJACENT CLOSETS
  - AT ALL "GROUP 1" AND "GROUP 2A" UNITS PROVIDE IN WALL BLOCKING FOR FUTURE GRAB BARS
  - AT ALL ADA UNITS; BATH #1, PROVIDE AND INSTALL GRAB BARS AS INDICATED ON DRAWINGS
  - AT ALL ADA UNITS; BATH #2, PROVIDE IN-WALL WOOD BLOCKING AS INDICATED FOR FUTURE INSTALLATION OF GRAB BARS
  - REFER TO "ID DRAWINGS" FOR ADDITIONAL INFORMATION ON FINISHES



TYPE 2.1 UNIT PLAN

TWO BEDROOM: ADA

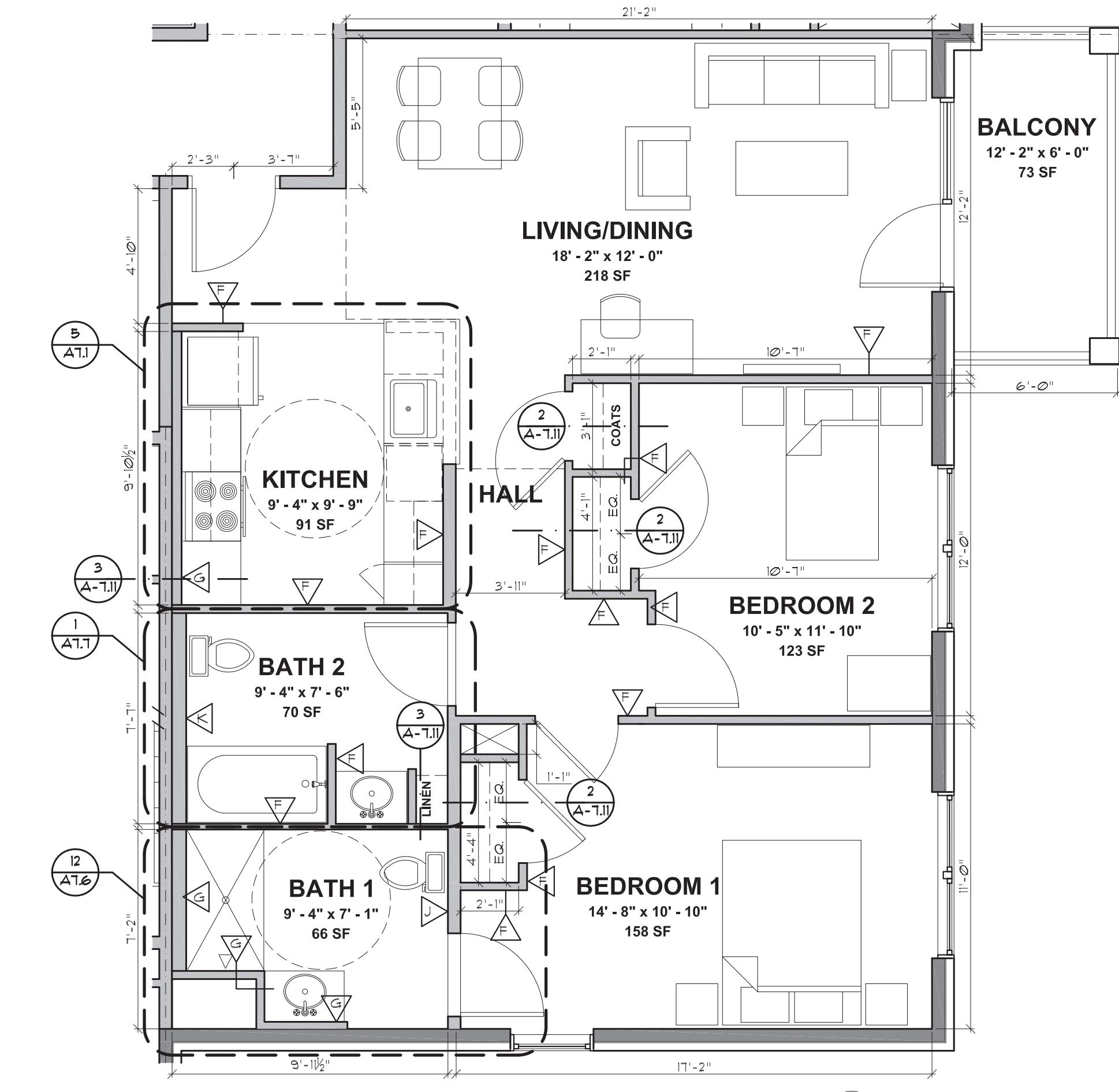
3 1/4" = 1'-0"



TYPE 3 UNIT PLAN TYPICAL

TWO BEDROOM: GROUP 1

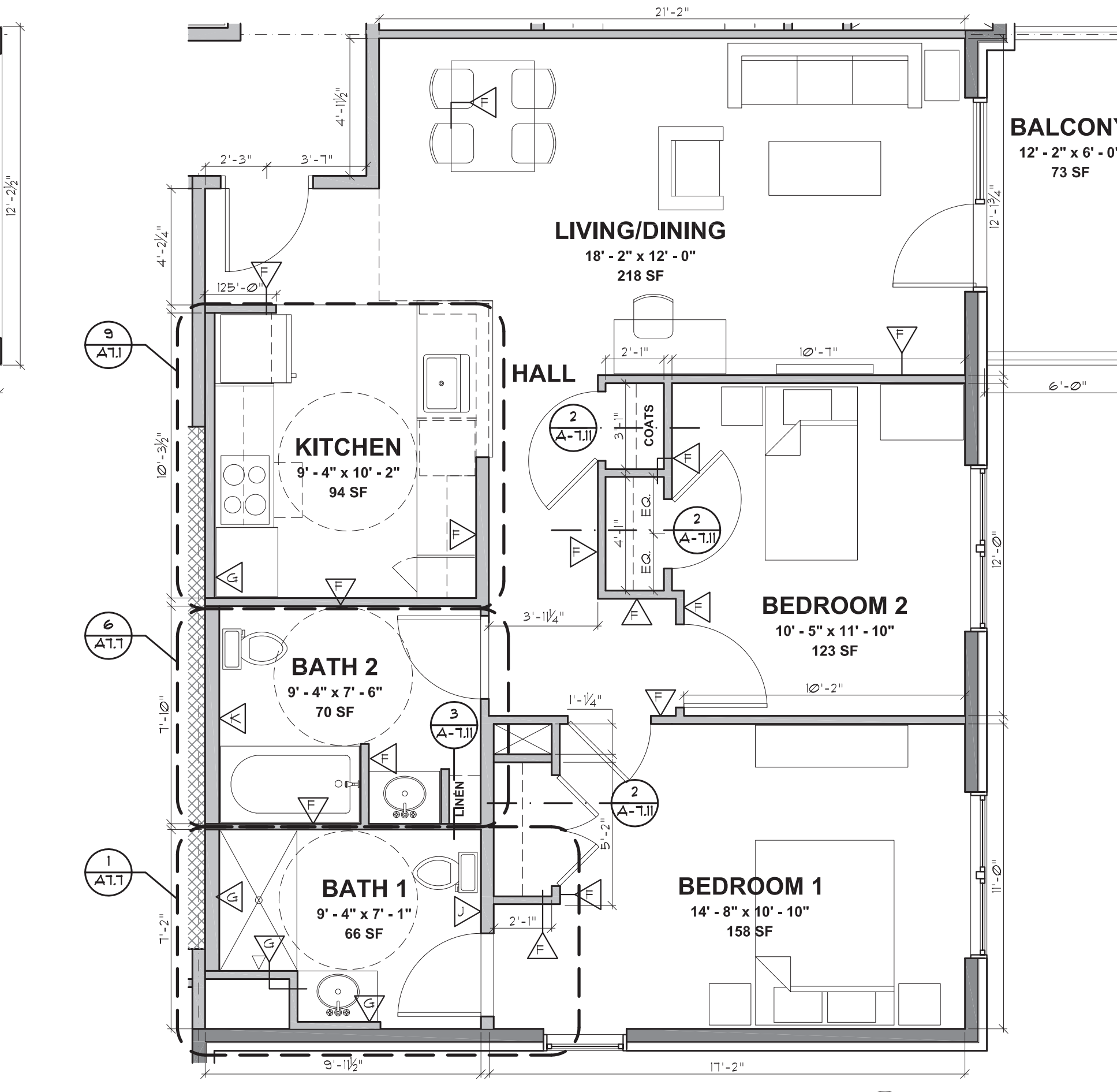
4 1/4" = 1'-0"



TYPE 3.1 UNIT PLAN

TWO BEDROOM: ADA

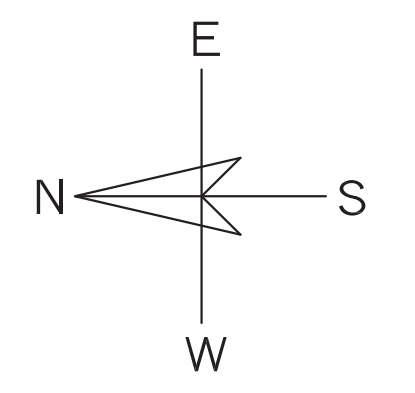
5 1/4" = 1'-0"



TYPE 3.2 UNIT PLAN

TWO BEDROOM: GROUP 2A

6 1/4" = 1'-0"



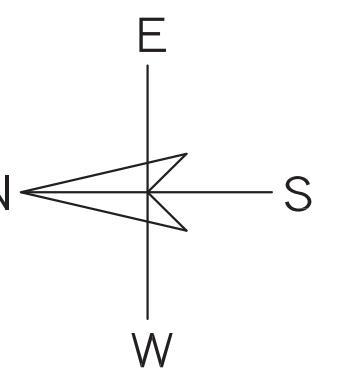
SHEET CONTENTS:  
Unit Types

PROJECT # 1420  
DATE: 9/22/2020  
REVISED DATE:  
REVISED: 02/16/2021

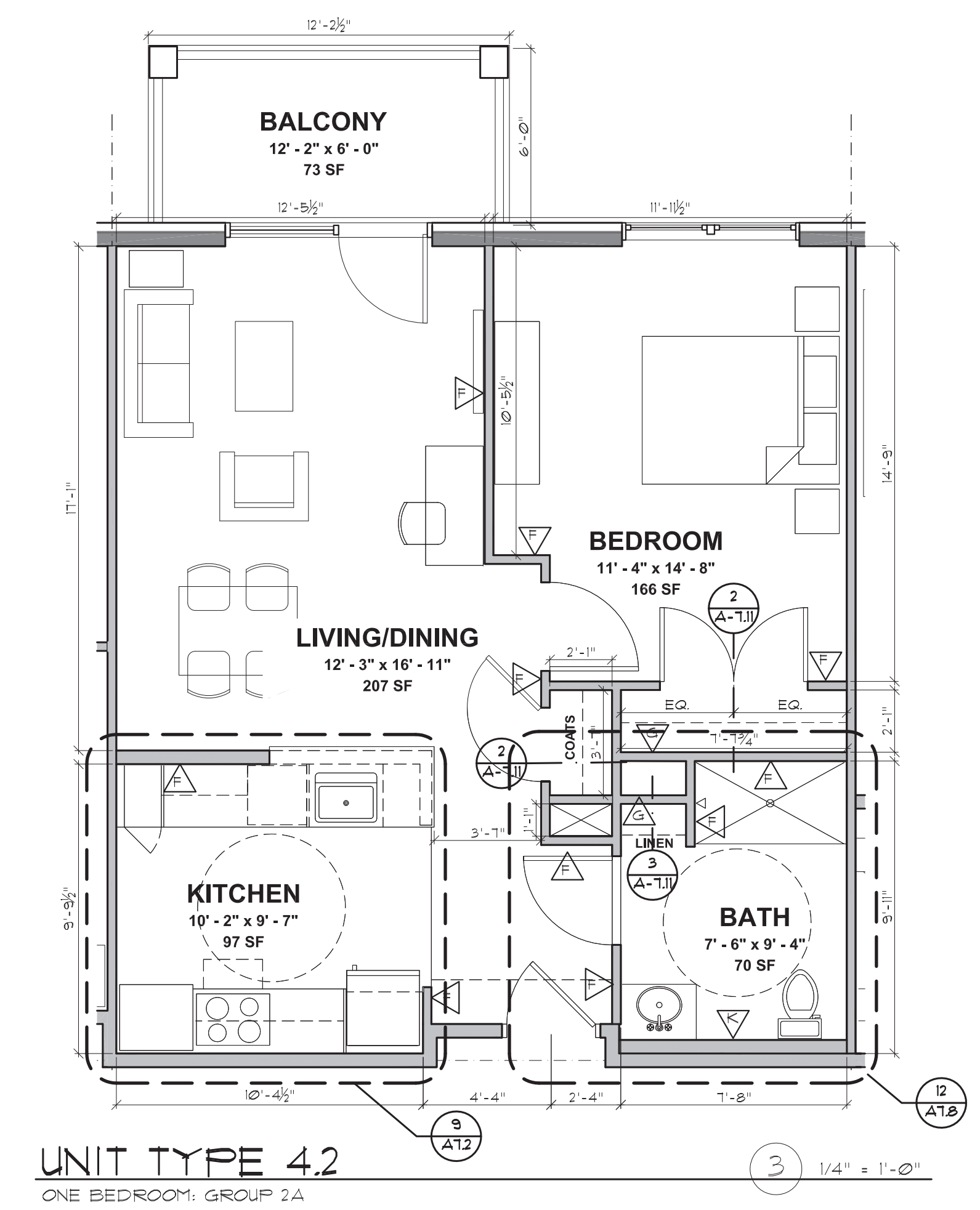
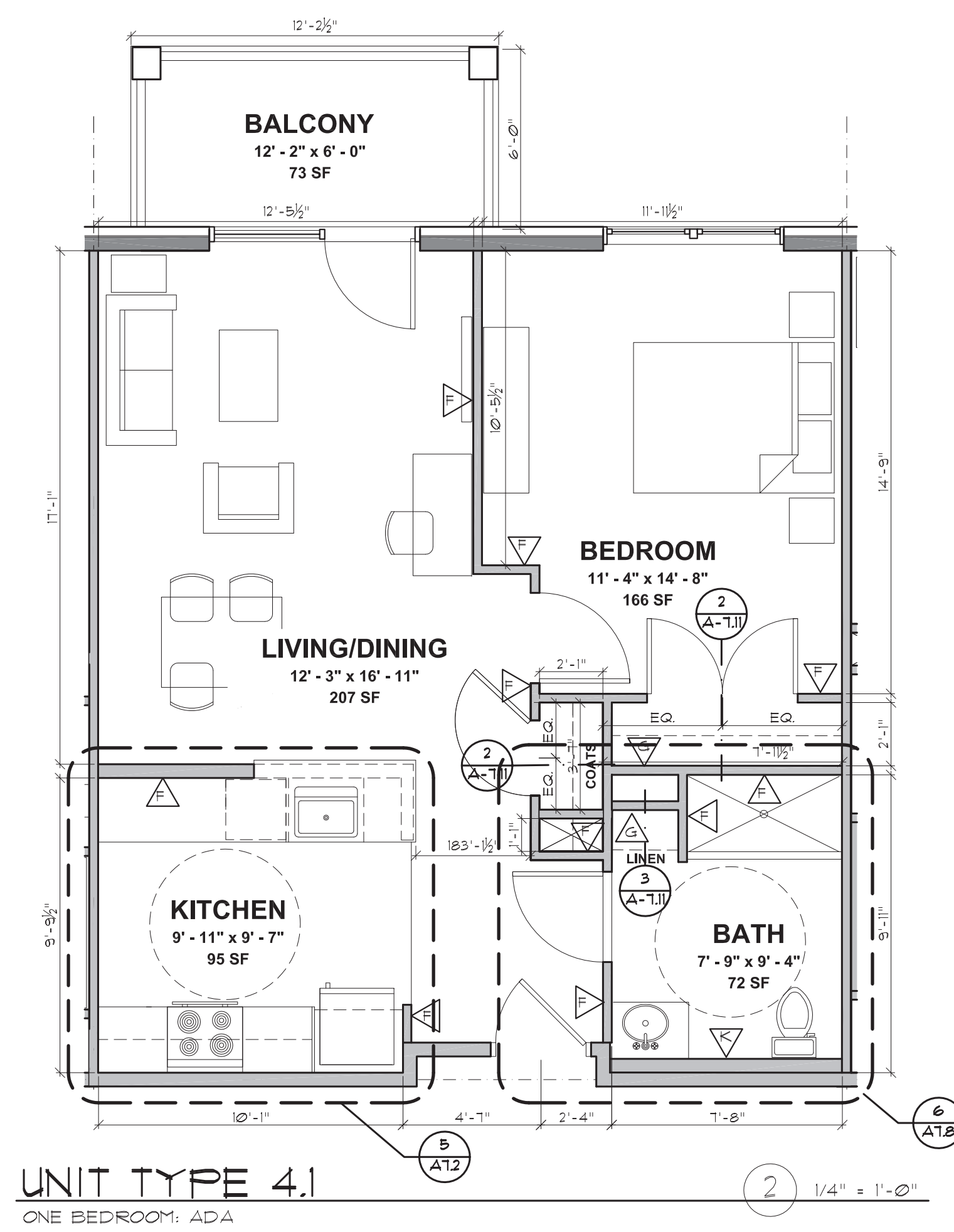
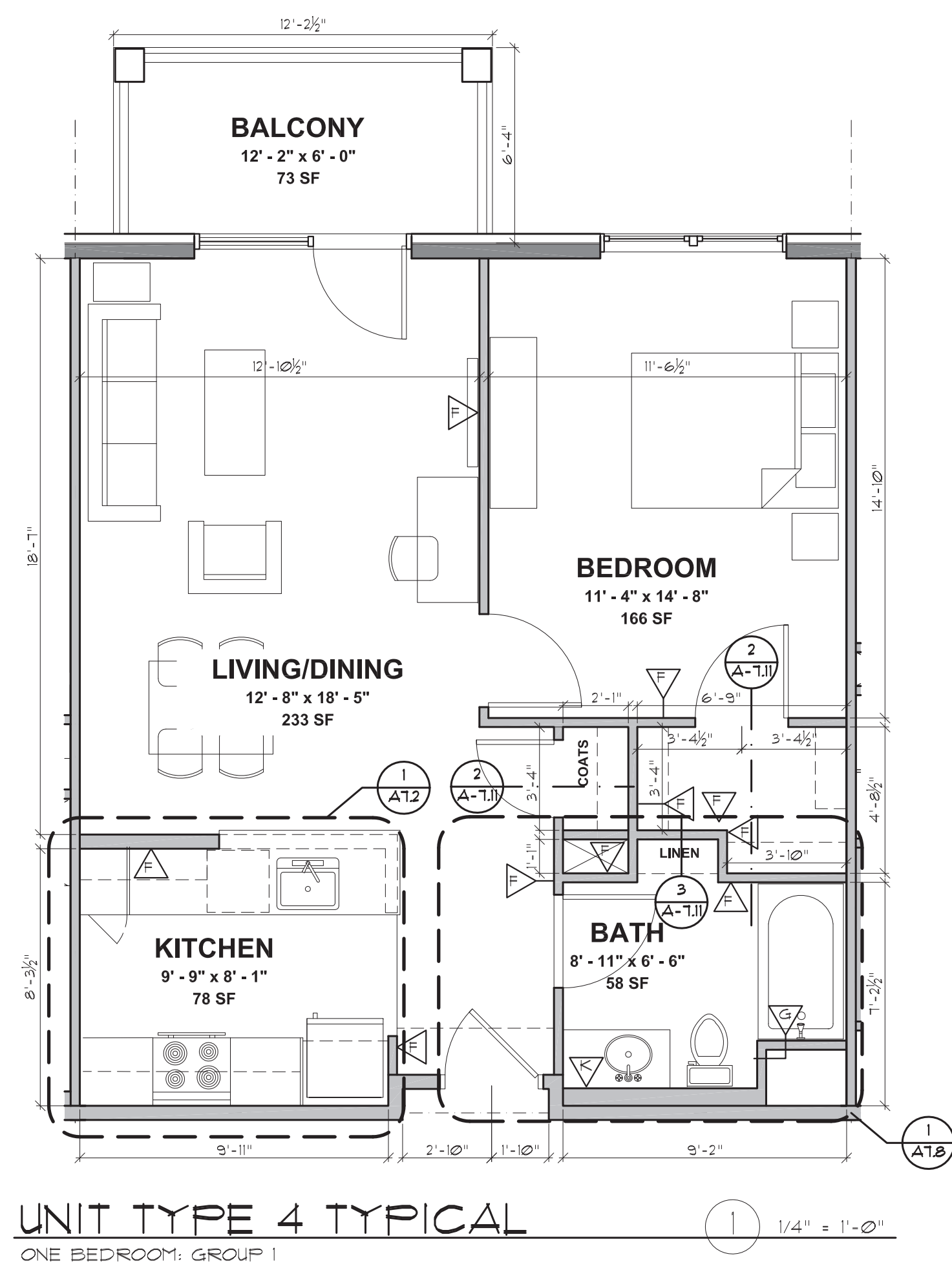
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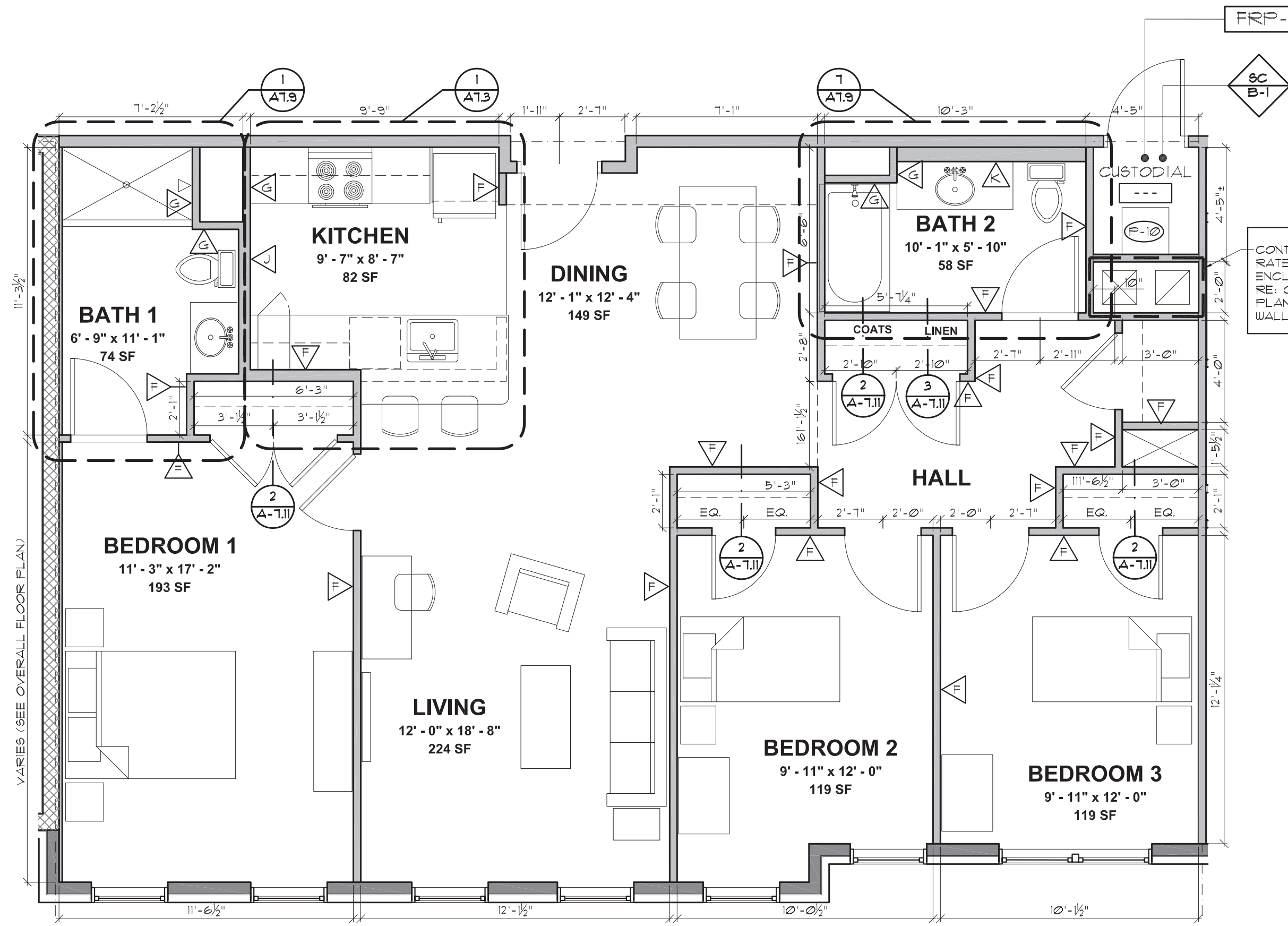
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- FINISH NOTES:**
1. TRANSITION STRIPS AT ALL CHANGES IN FLOORING FINISHES. CHANGE IN LEVEL IN FLOOR SURFACES SHALL NOT EXCEED 1/4" AND SLOPE OF THRESHOLD SHALL NOT BE GREATER THAN 1:2, IN COMPLIANCE WITH THE AMERICAN DISABILITIES ACT
  2. DO NOT PAINT ALUMINUM DOORS
  3. ALL FLOOR FINISHES TO CONTINUE INTO ADJACENT CLOSETS
  4. AT ALL "GROUP 1" AND "GROUP 2A" UNITS PROVIDE IN-WALL BLOCKING FOR FUTURE GRAB BARS.
  5. AT ALL ADA UNITS: BATH #1 PROVIDE AND INSTALL GRAB BARS AS INDICATED ON DRAWINGS.
  6. AT ALL ADA UNITS: BATH #2, PROVIDE IN-WALL WOOD BLOCKING AS INDICATED FOR FUTURE INSTALLATION OF GRAB BARS.
  7. REFER TO "ID DRAWINGS" FOR ADDITIONAL INFORMATION ON FINISHES



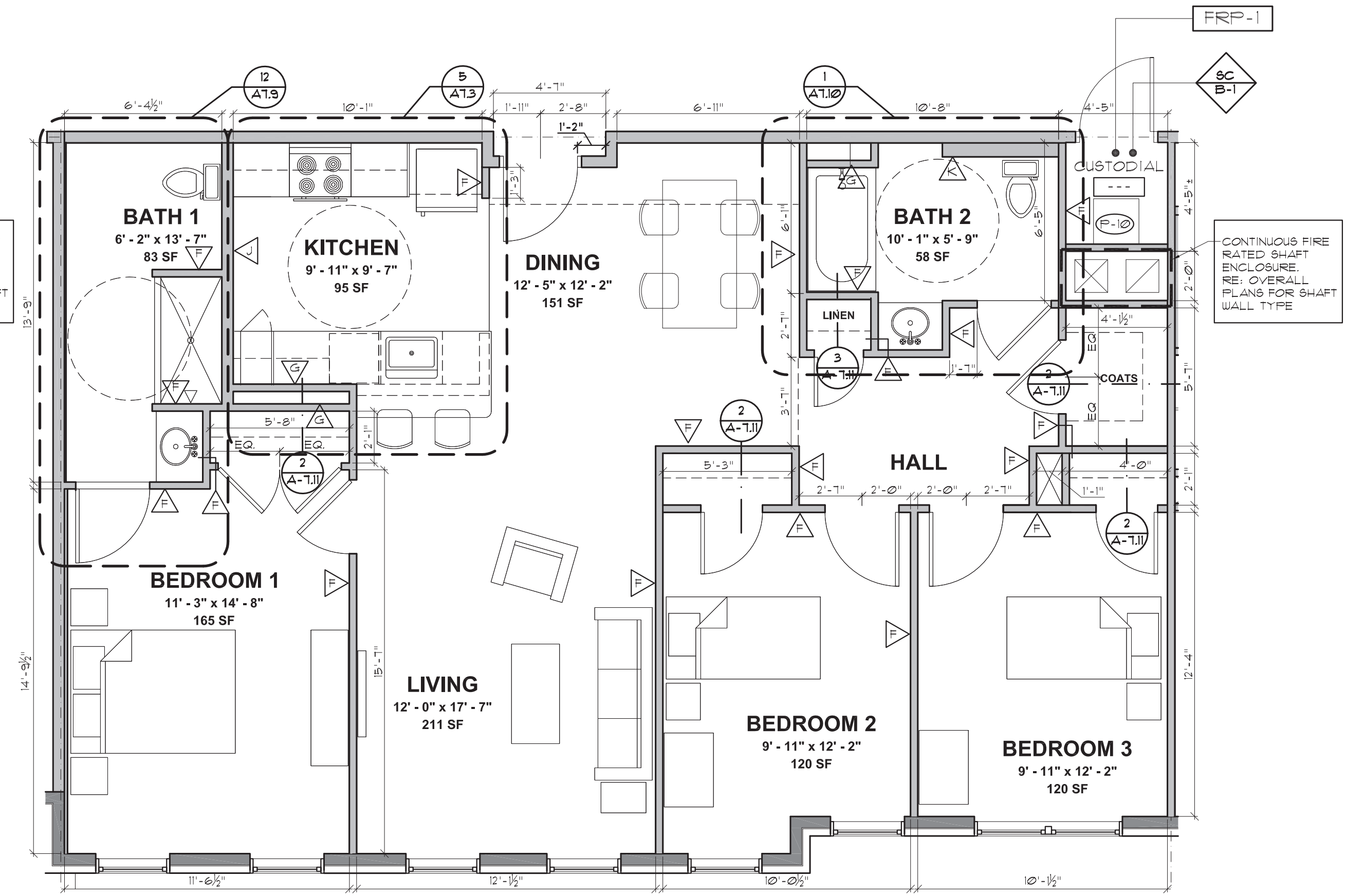
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**UNIT TYPE 5 TYPICAL**

THREE BEDROOM: GROUP 1

1/4" = 1'-0"



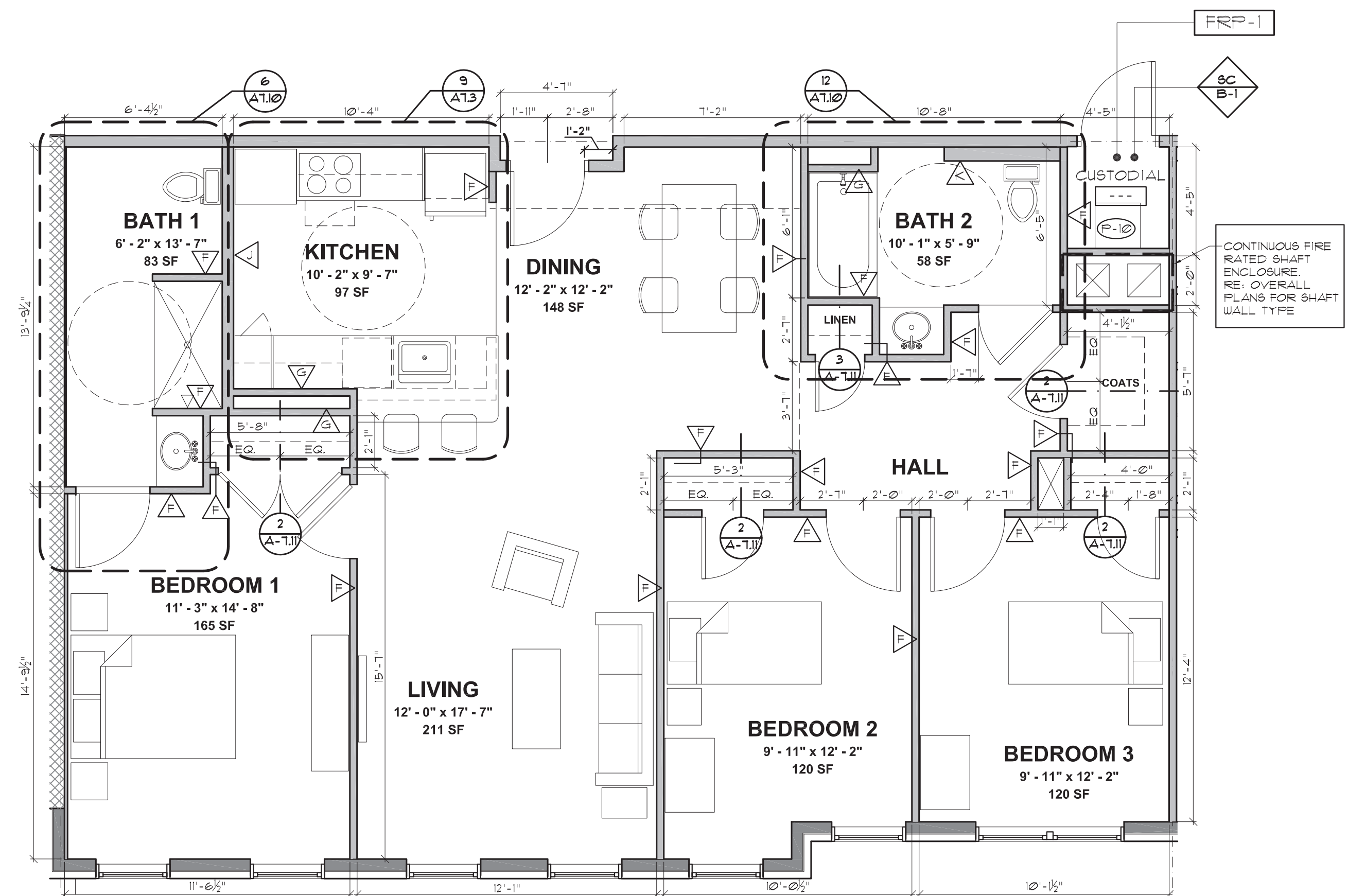
**UNIT TYPE 5.1**

THREE BEDROOM: ADA

1/4" = 1'-0"

**FINISH NOTES:**

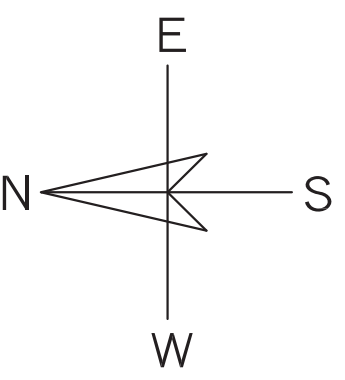
1. TRANSITION STRIPS AT ALL CHANGES IN FLOORING FINISHES. CHANGE IN LEVEL IN FLOOR SURFACES SHALL NOT EXCEED 1/4" AND SLOPE OF THRESHOLD SHALL NOT BE GREATER THAN 1:2, IN COMPLIANCE WITH THE AMERICAN DISABILITIES ACT
2. DO NOT PAINT ALUMINUM DOORS
3. ALL FLOOR FINISHES TO CONTINUE INTO ADJACENT CLOSETS
4. AT ALL "GROUP 1" AND "GROUP 2A" UNITS PROVIDE IN WALL BLOCKING FOR FUTURE GRAB BARS.
5. AT ALL ADA UNITS: BATH #1 PROVIDE AND INSTALL GRAB BARS AS INDICATED ON DRAWINGS.
6. AT ALL ADA UNITS: BATH #2 PROVIDE IN-WALL WOOD BLOCKING AS INDICATED FOR FUTURE INSTALLATION OF GRAB BARS.
7. REFER TO "ID DRAWINGS" FOR ADDITIONAL INFORMATION ON FINISHES



**UNIT TYPE 5.2**

THREE BEDROOM: GROUP 2A

1/4" = 1'-0"



SHEET CONTENTS:  
Unit Types

PROJECT # 1420

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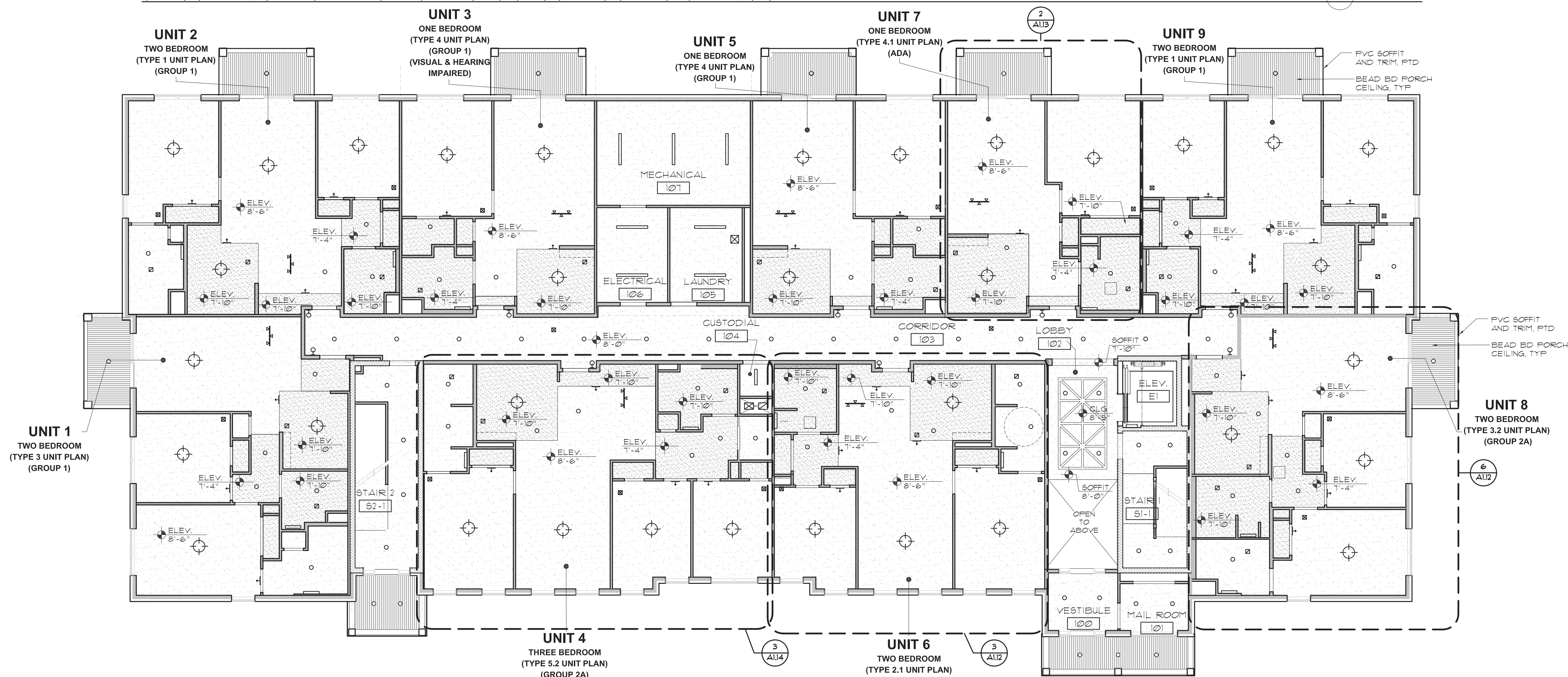
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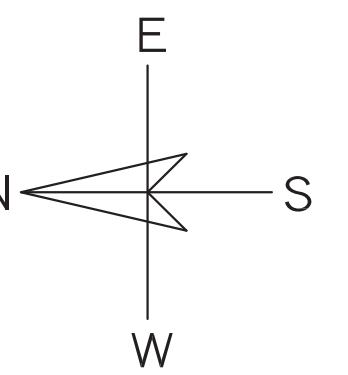
BUILDING E: SECOND FLOOR REFLECTED CEILING PLAN

2 1/8" = 1'-0"



BUILDING E: FIRST FLOOR REFLECTED CEILING PLAN

1 1/8" = 1'-0"

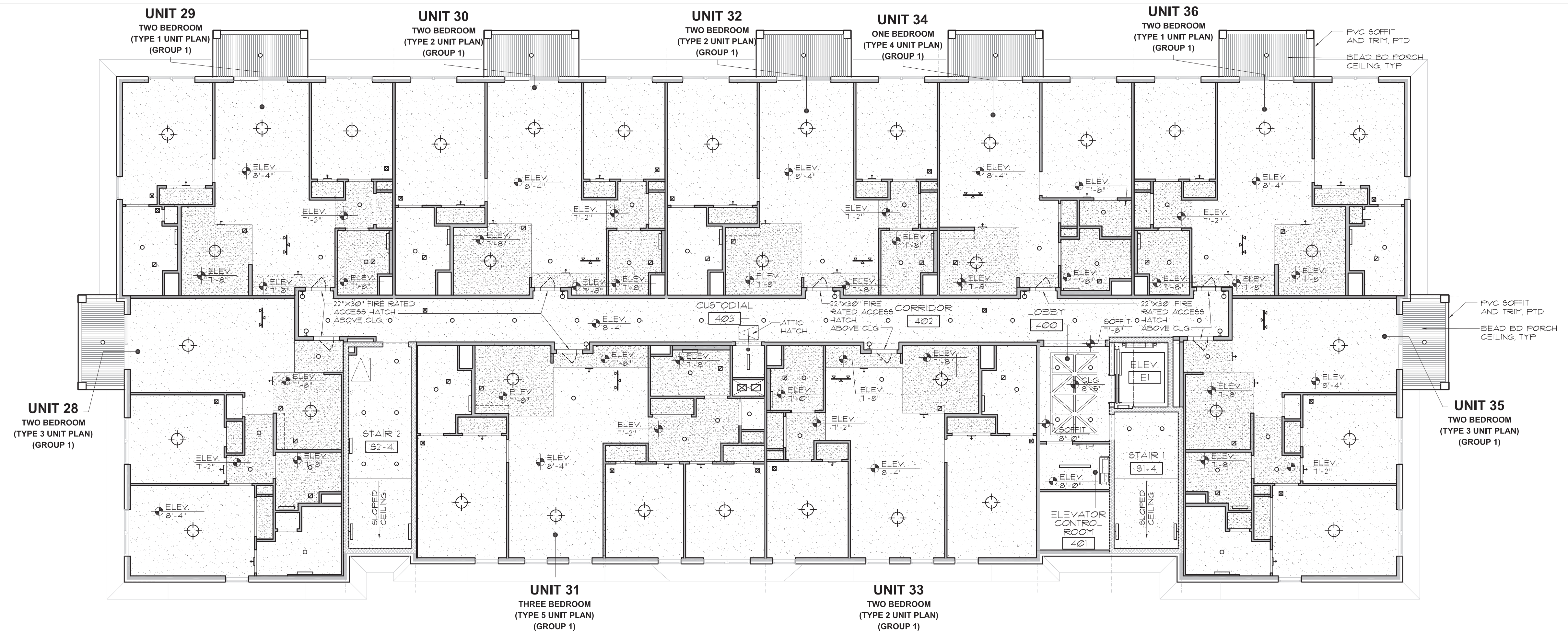


SHEET CONTENTS:  
Building E:  
Reflected Ceiling Plans

PROJECT # 1420  
DATE: 9/22/2020  
REVISED DATE:  
REVISED: 02/16/2021

**A1.8**

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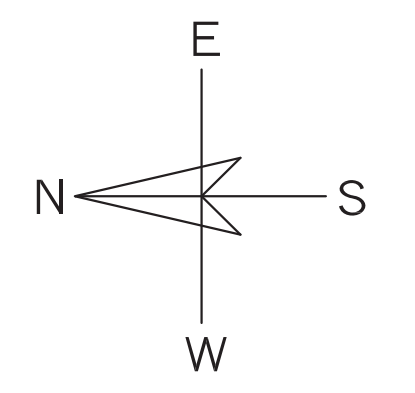
BUILDING E: FOURTH FLOOR REFLECTED CEILING PLAN

2 1/8" = 1'-0"



BUILDING E: THIRD FLOOR REFLECTED CEILING PLAN

1 1/2" = 1'-0"



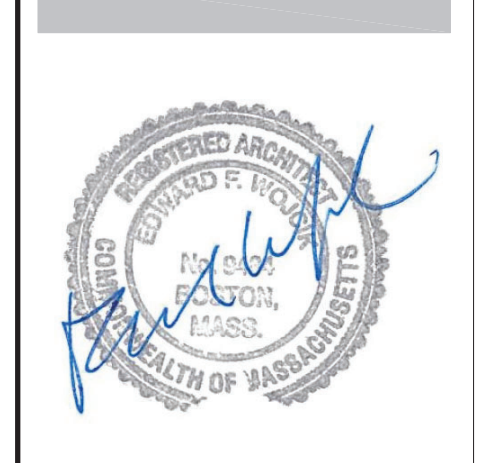
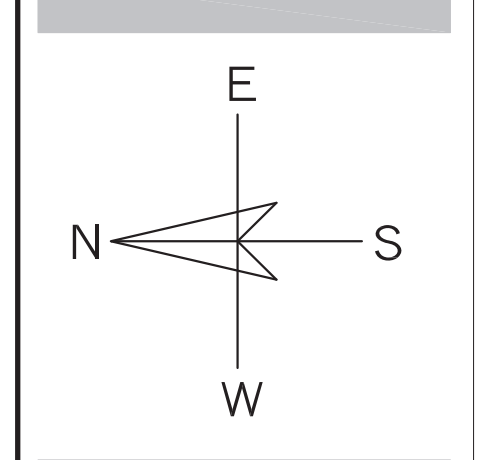
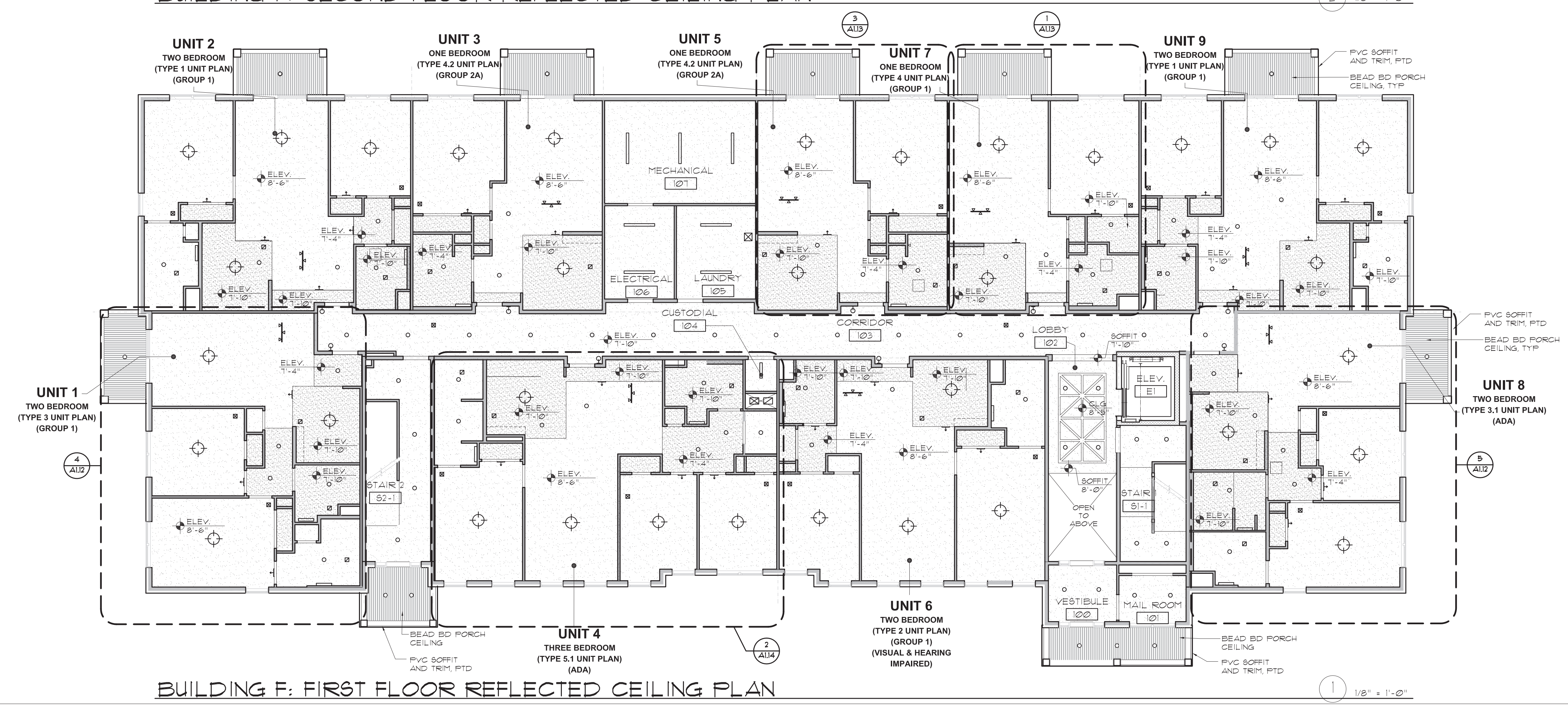
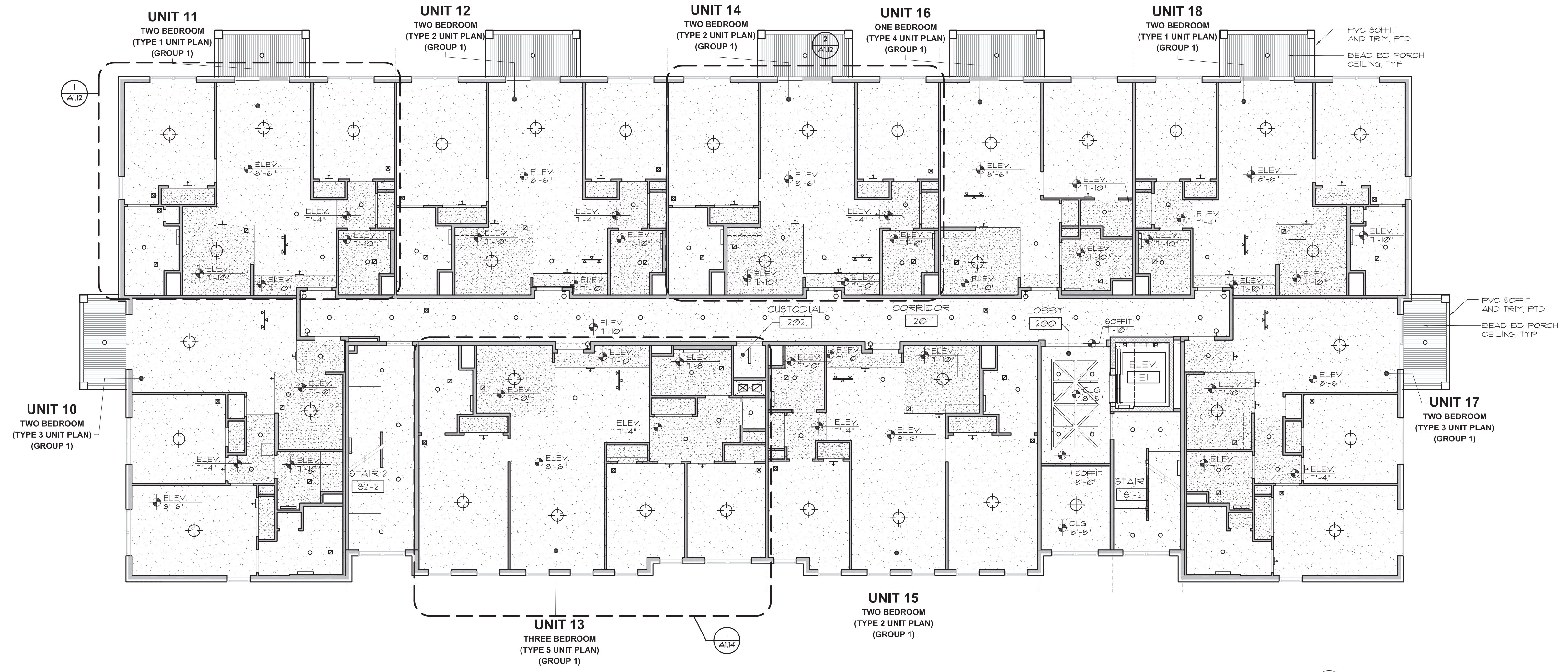
SHEET CONTENTS:  
Building E:  
Reflected Ceiling Plans

PROJECT # 1420  
DATE: 9/22/2020  
REVISED DATE:  
REVISED: 02/16/2021

**A1.9**

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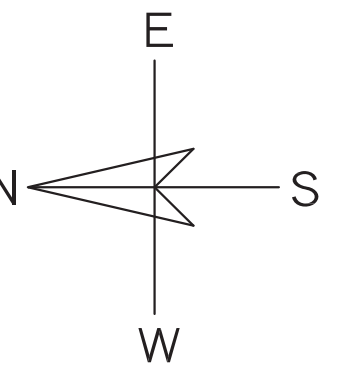


**SHEET CONTENTS:**  
 Building F:  
 Reflected Ceiling Plans

PROJECT # 1420  
 DATE: 9/22/2020  
 REVISED DATE:  
 ▲ REVISED: 02/16/2021

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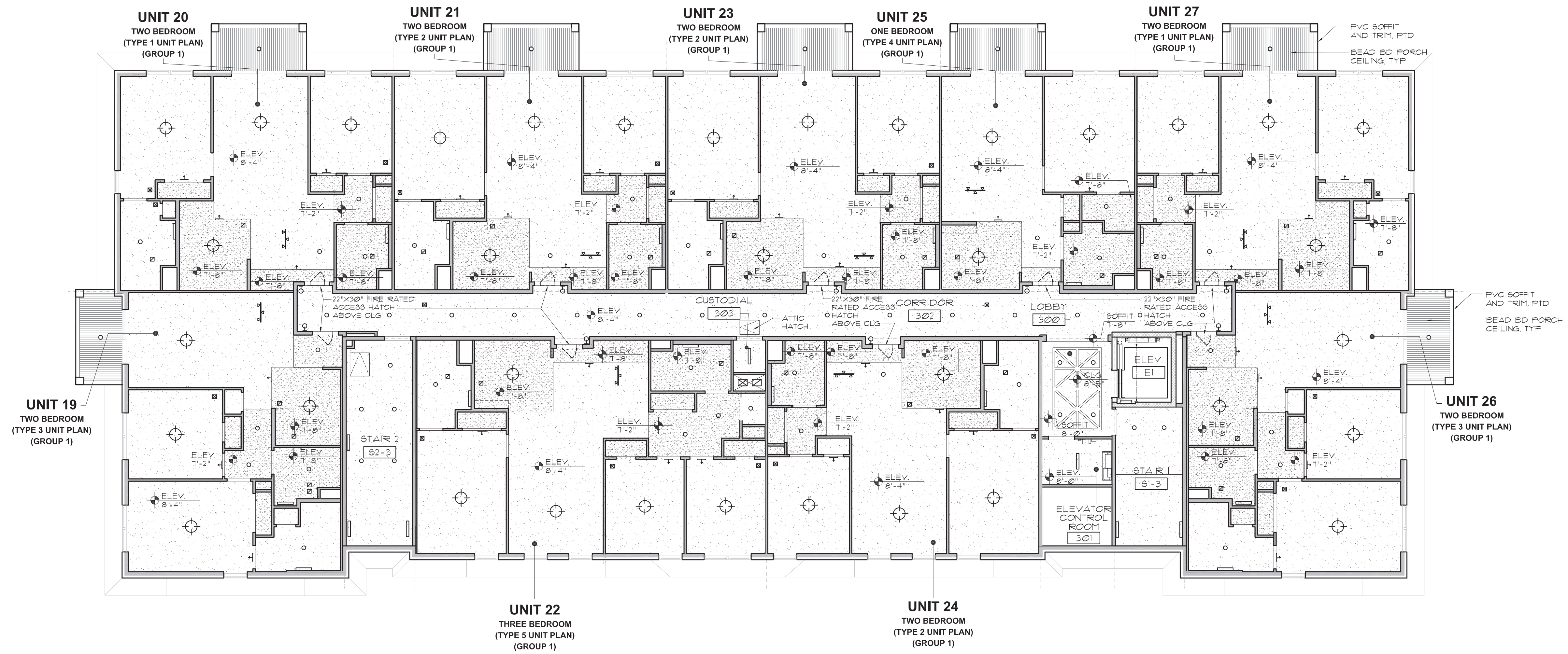
SHEET CONTENTS:  
 Building F:  
 Reflected Ceiling Plan

PROJECT # 1420

DATE: 9/22/2020  
 REVISED DATE:  
 REVISED: 02/16/2021

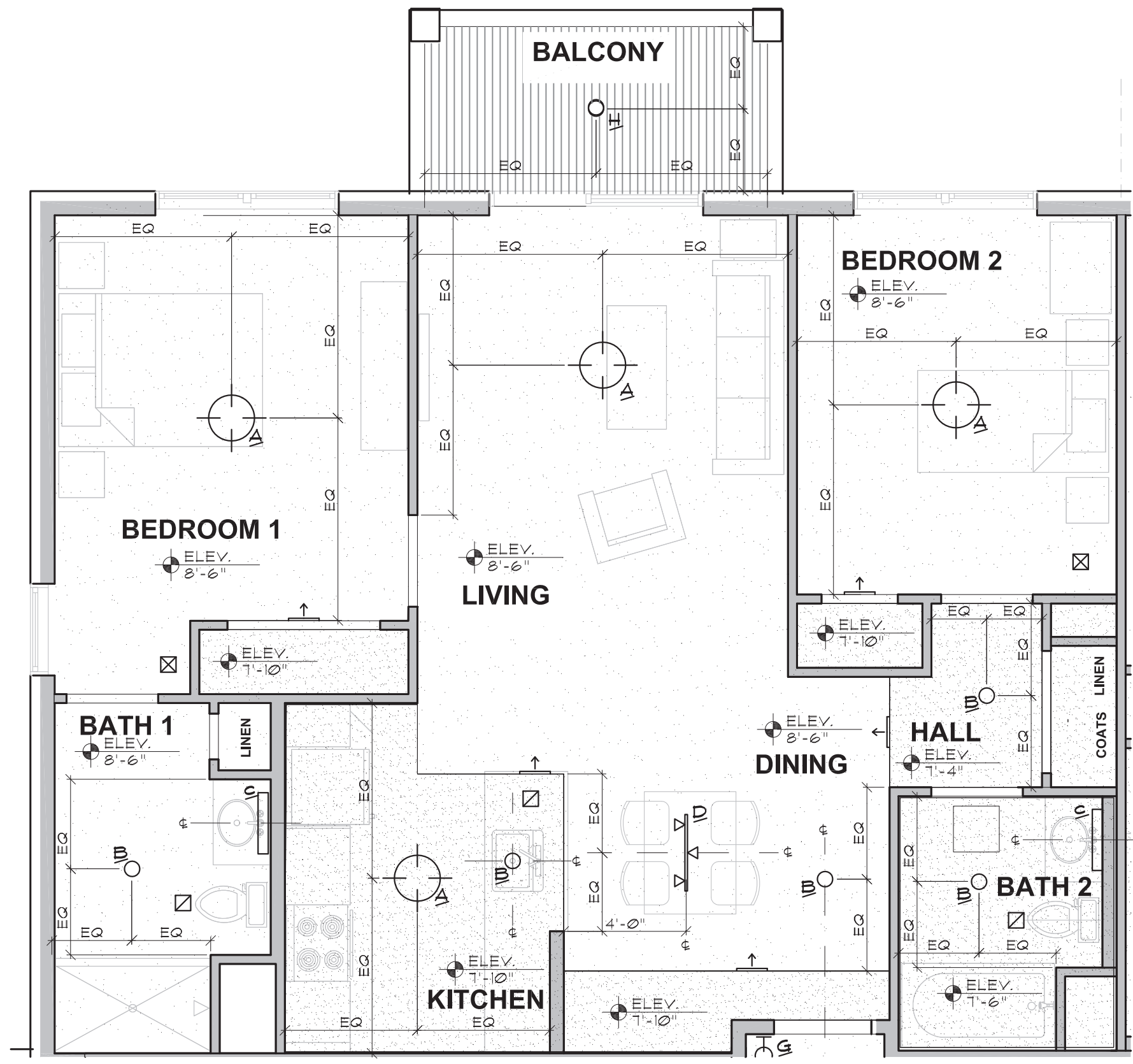
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**BUILDING F: THIRD FLOOR PLAN**

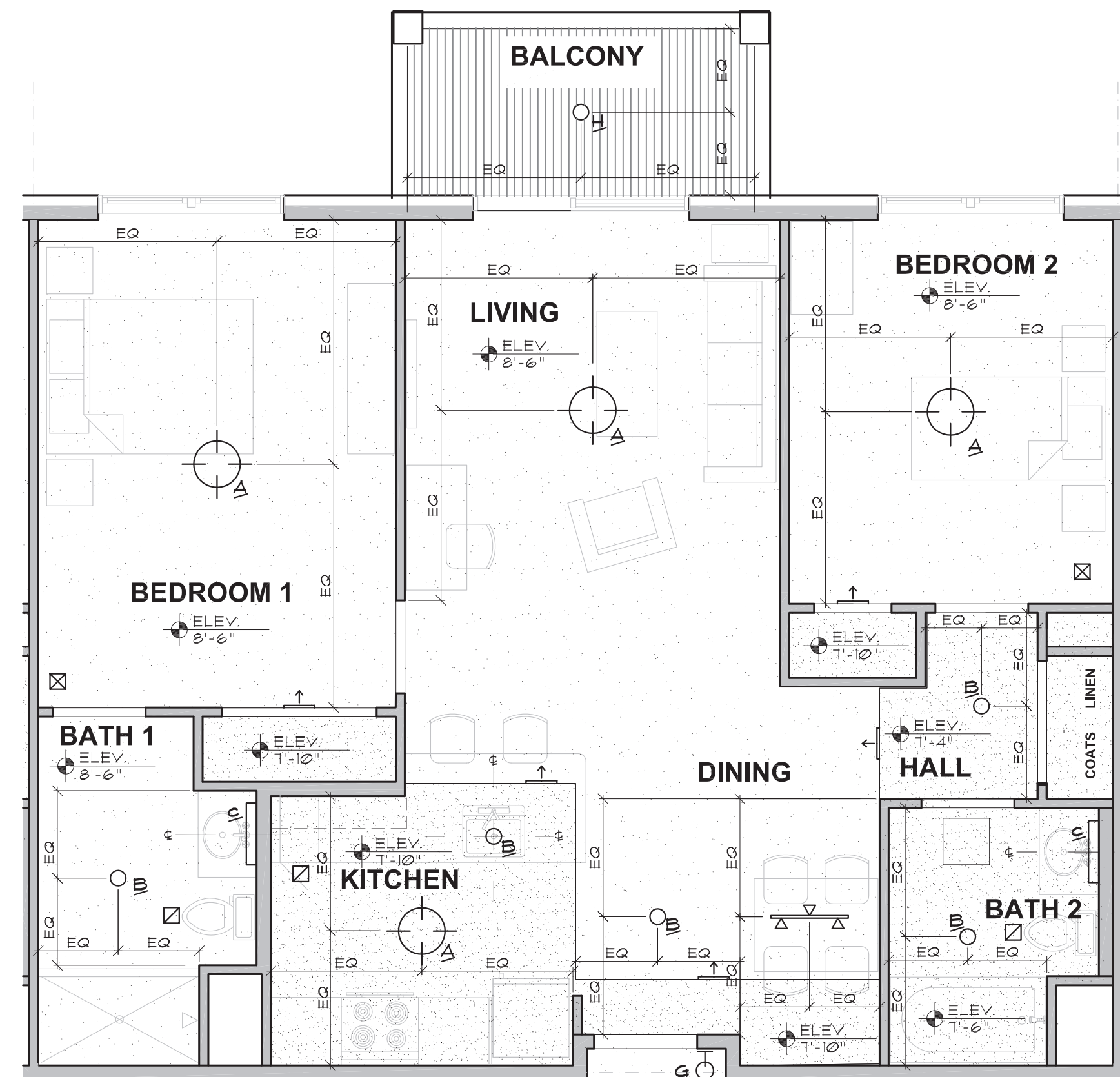
1/8" = 1'-0"



**TYPE 1 UNIT RCP TYPICAL**

TWO BEDROOM: GROUP 1

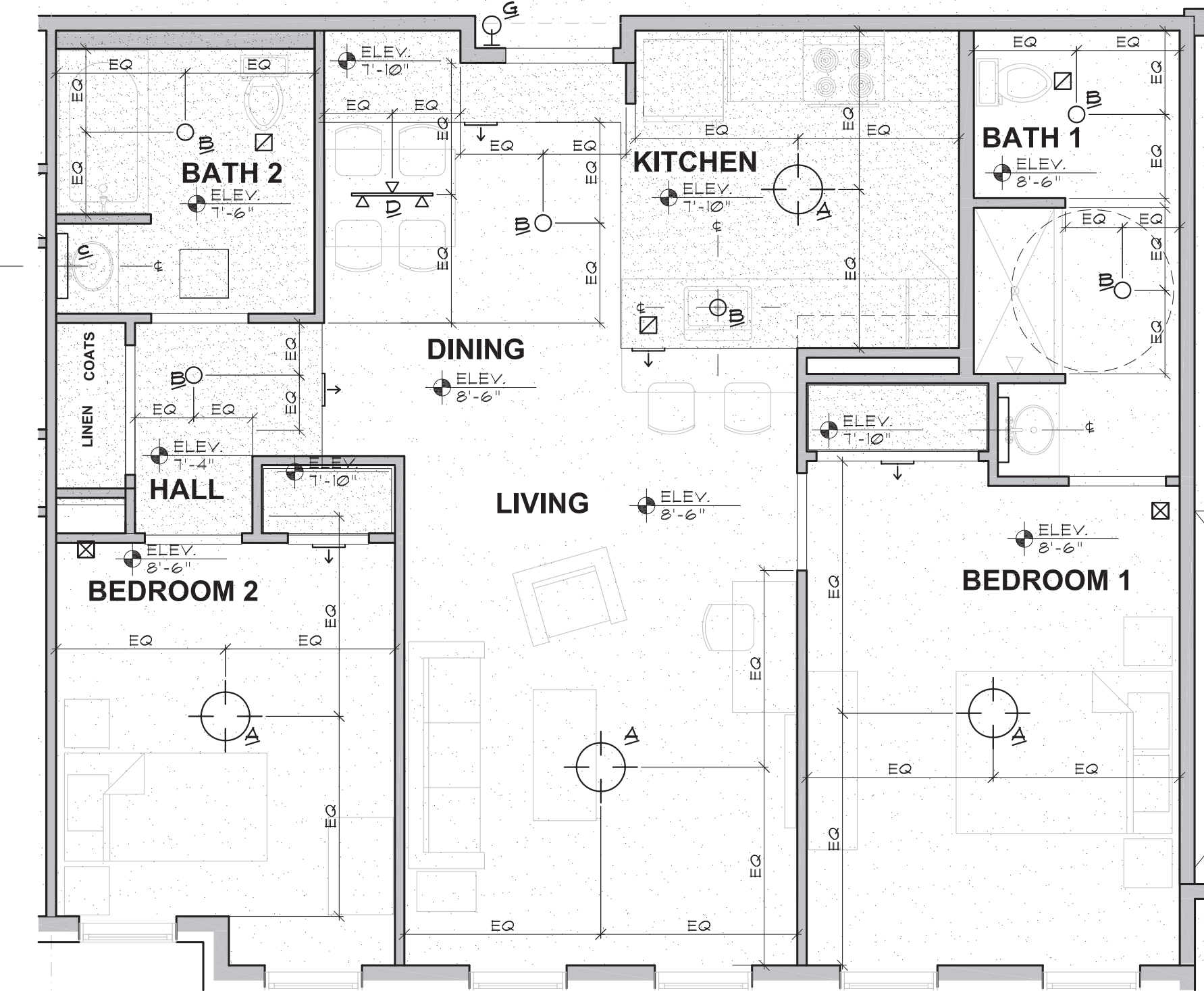
① 1/4" = 1'-0"



**TYPE 2 UNIT RCP TYPICAL**

TWO BEDROOM: GROUP 1

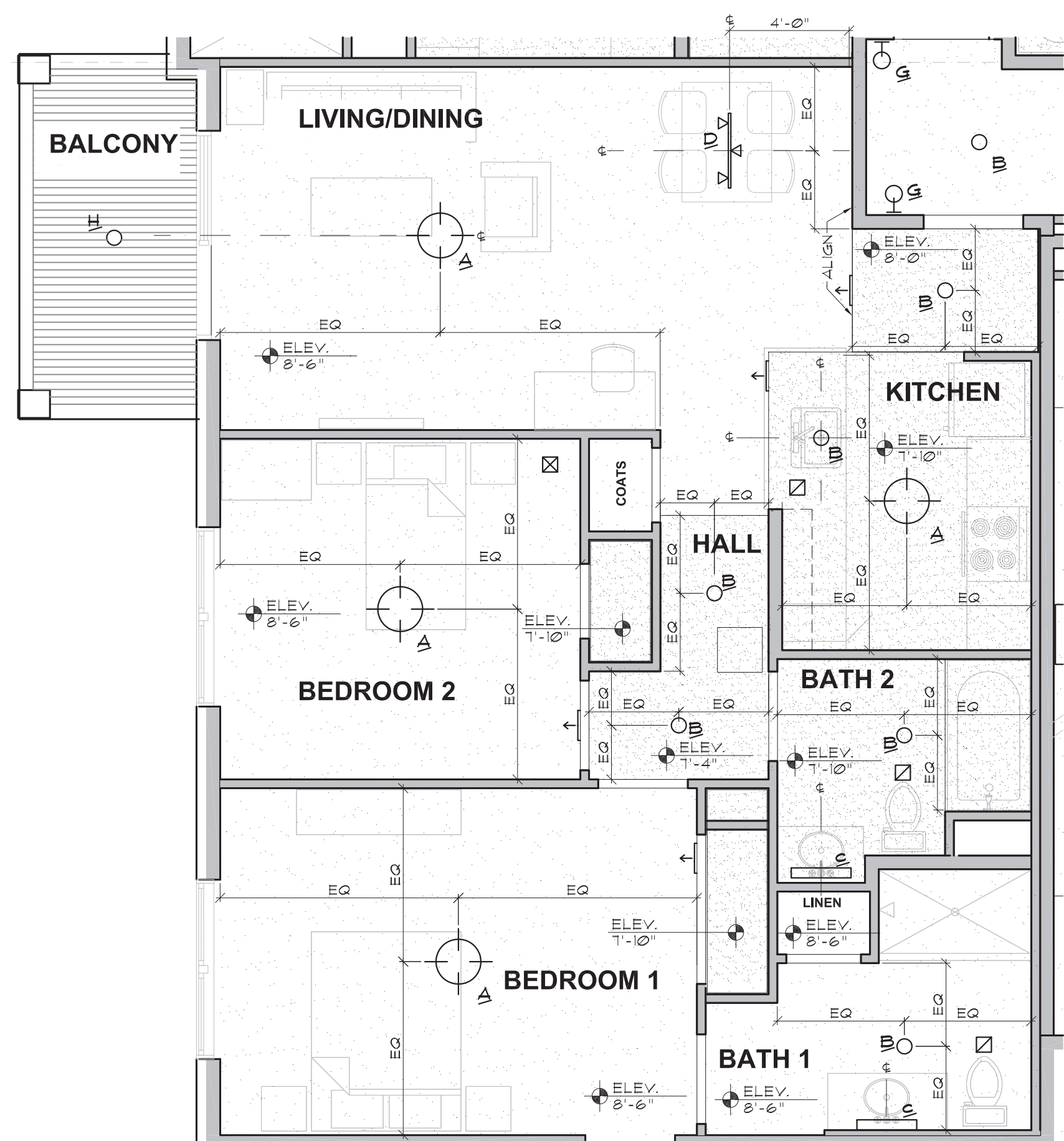
② 1/4" = 1'-0"



**TYPE 2.1 UNIT RCP**

TWO BEDROOM: ADA/GROUP 2A

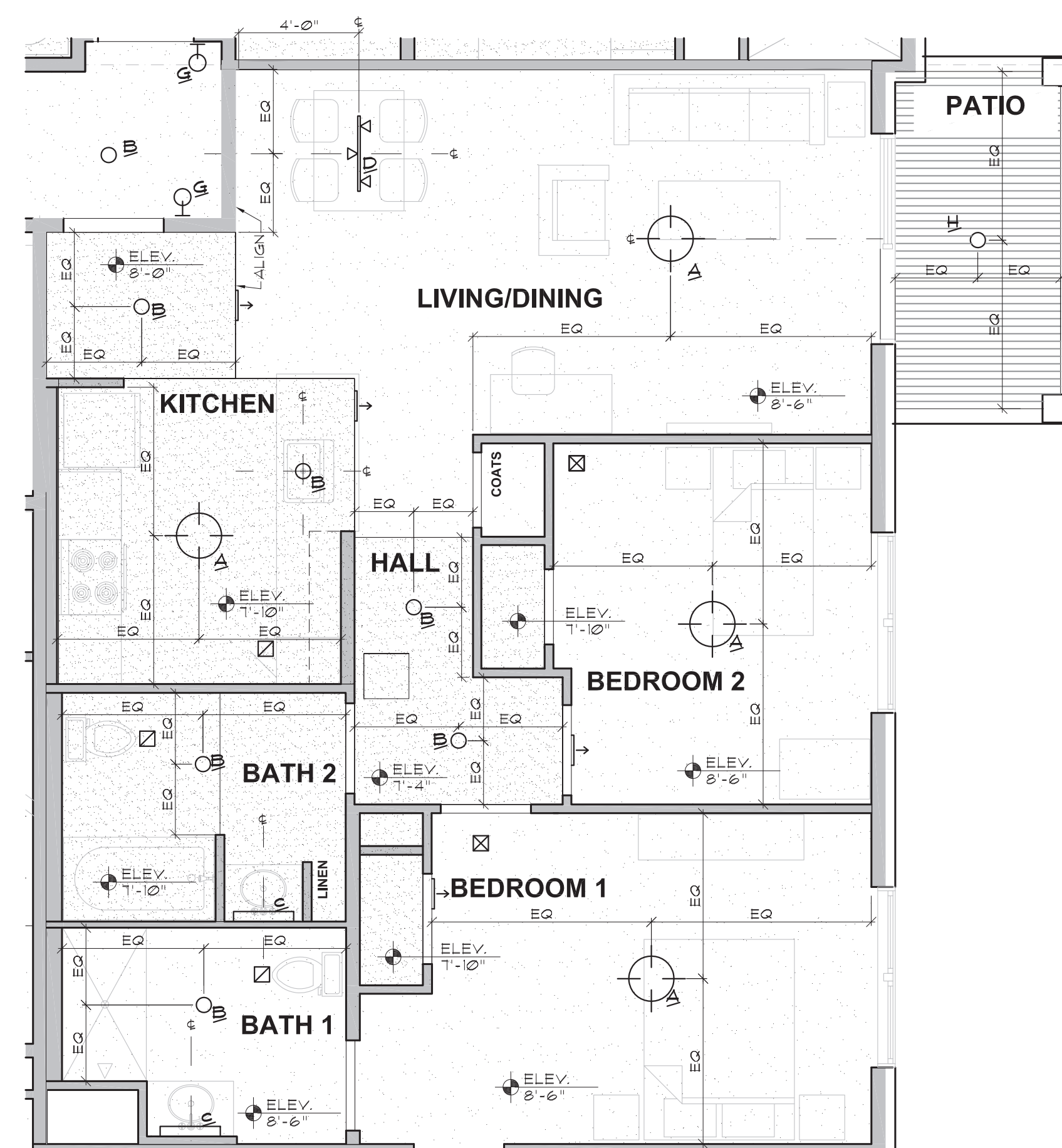
③ 1/4" = 1'-0"



**TYPE 3 UNIT RCP TYPICAL**

TWO BEDROOM: GROUP 1

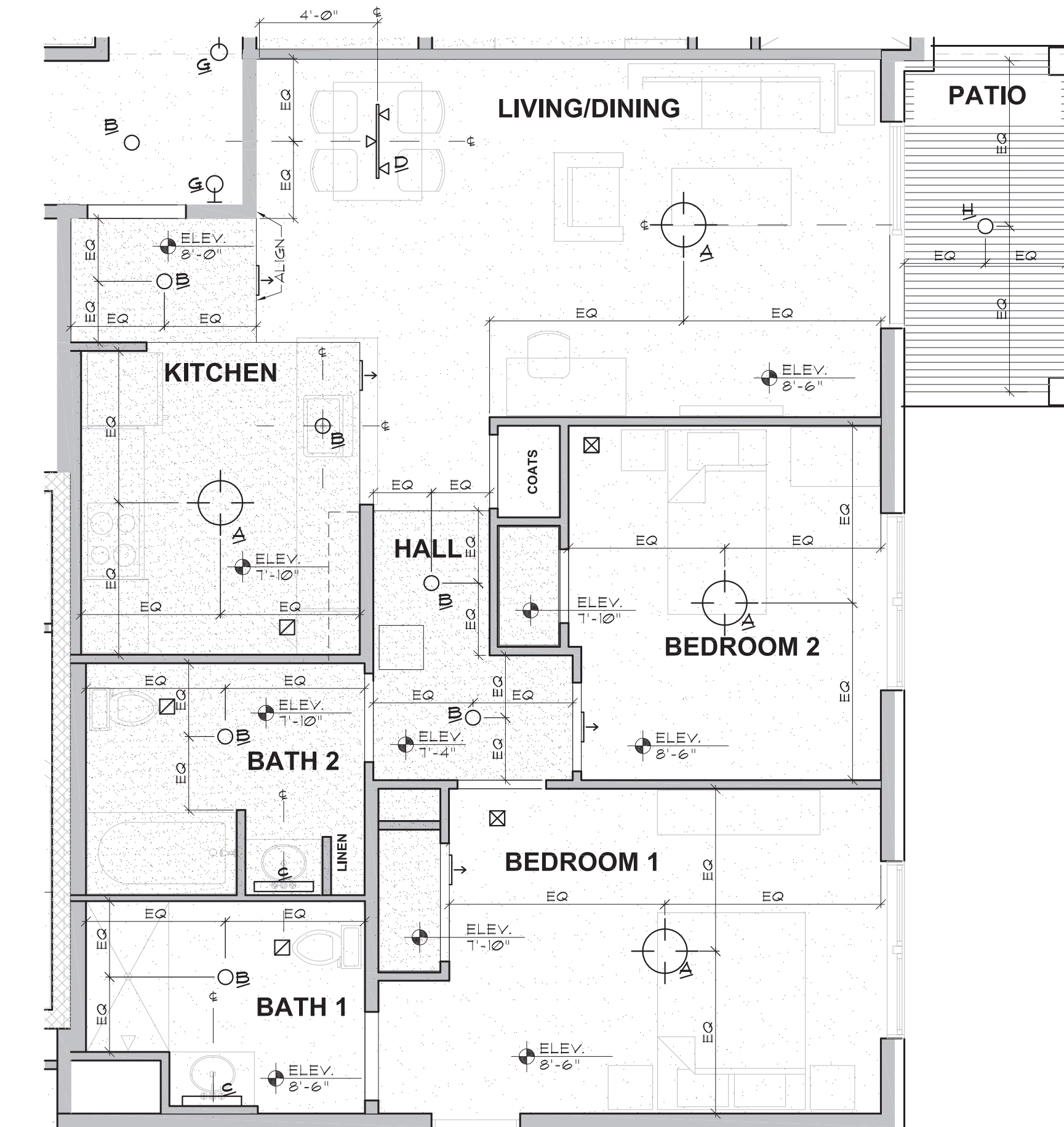
④ 1/4" = 1'-0"



**TYPE 3.1 UNIT RCP**

TWO BEDROOM: ADA

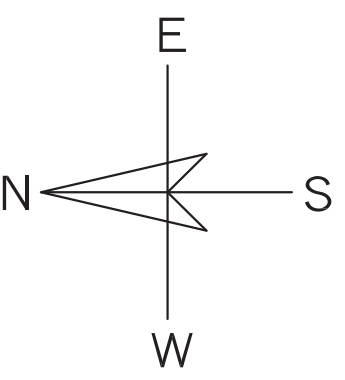
⑤ 1/4" = 1'-0"



**TYPE 3.2 UNIT RCP**

TWO BEDROOM: GROUP 2A

⑥ 1/4" = 1'-0"



SHEET CONTENTS:

Unit Types  
Reflected Ceiling Plans

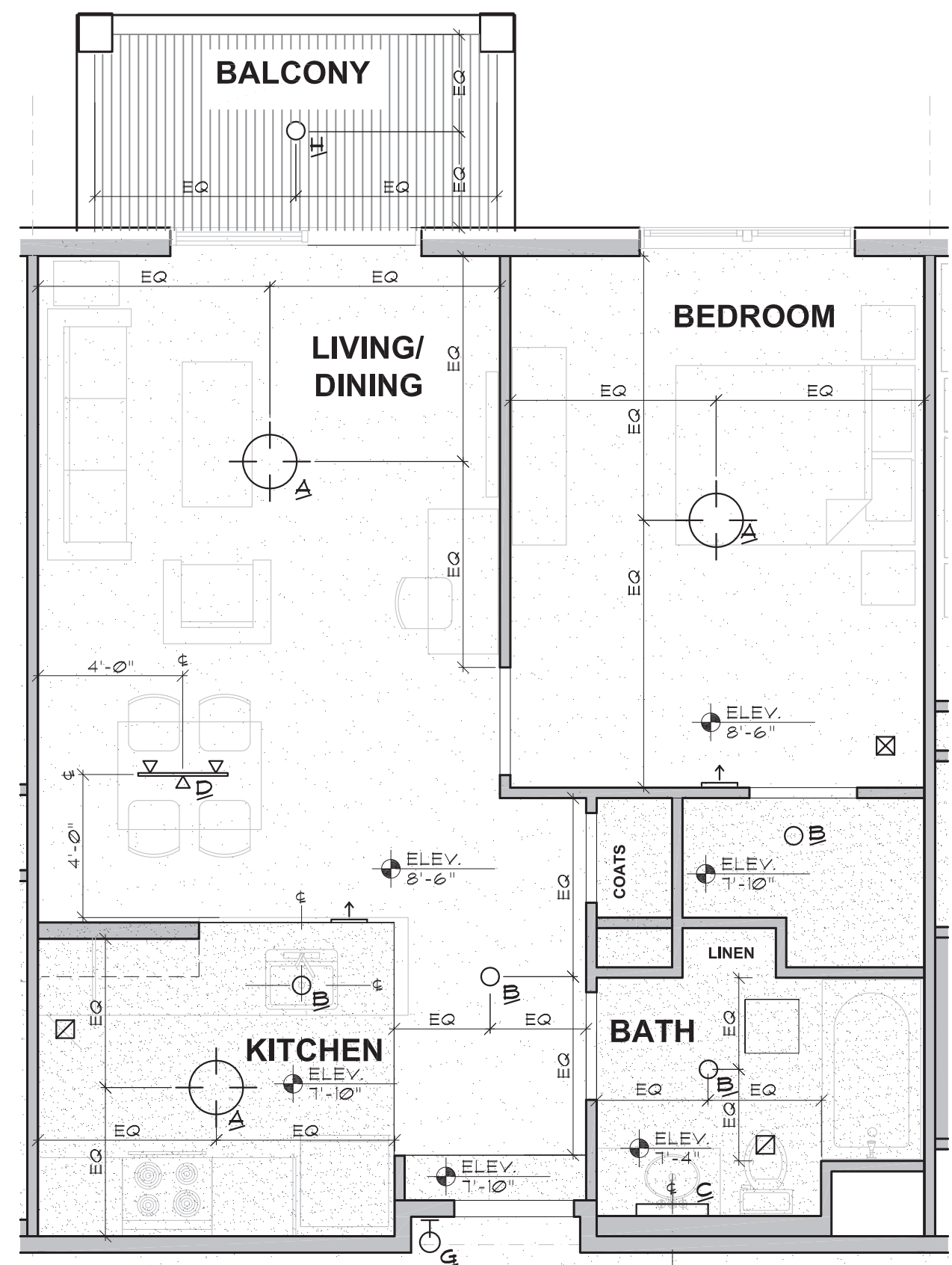
PROJECT # 1420

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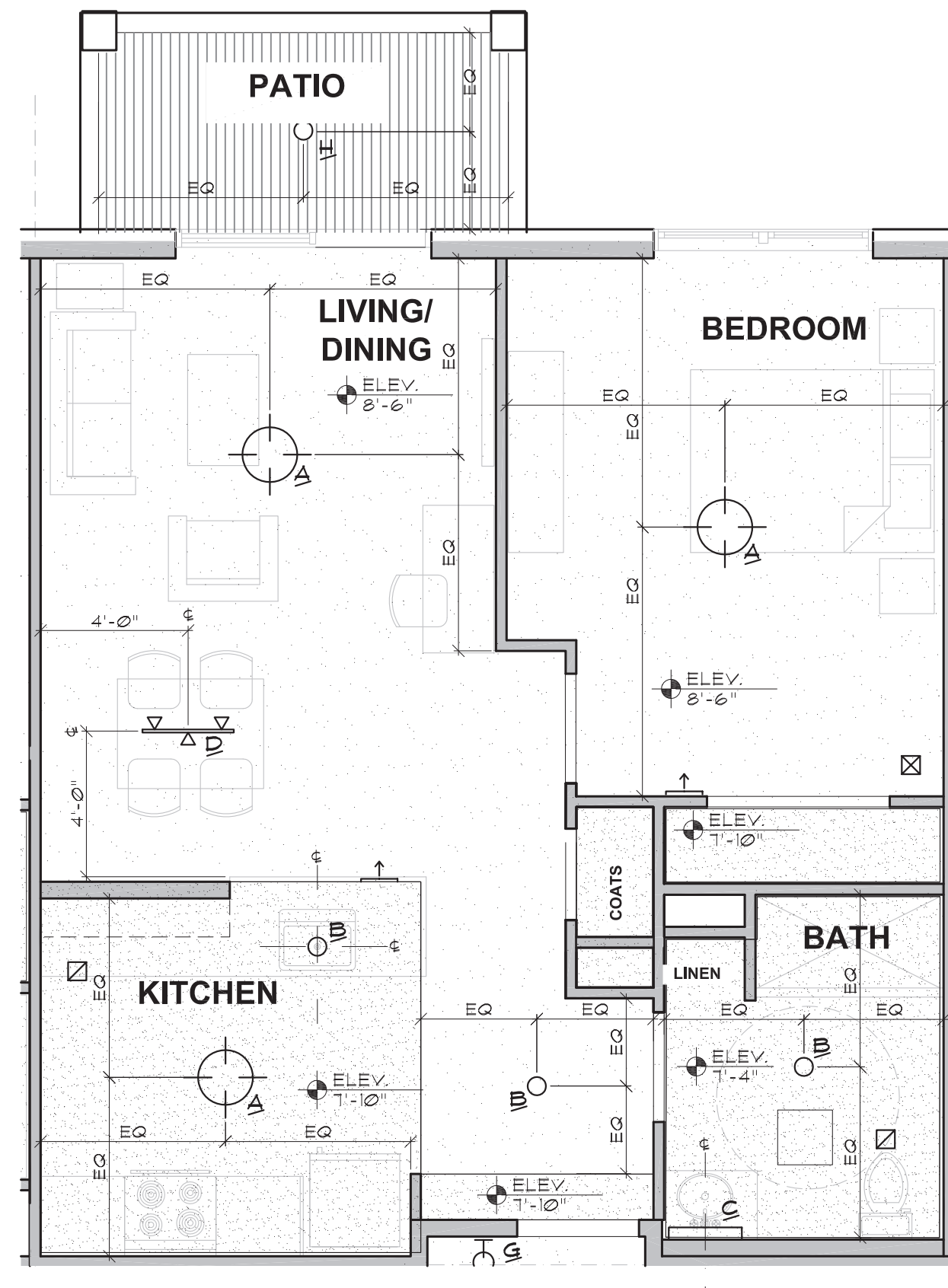
REVISED DATE:

▲ REVISED: 02/16/2021

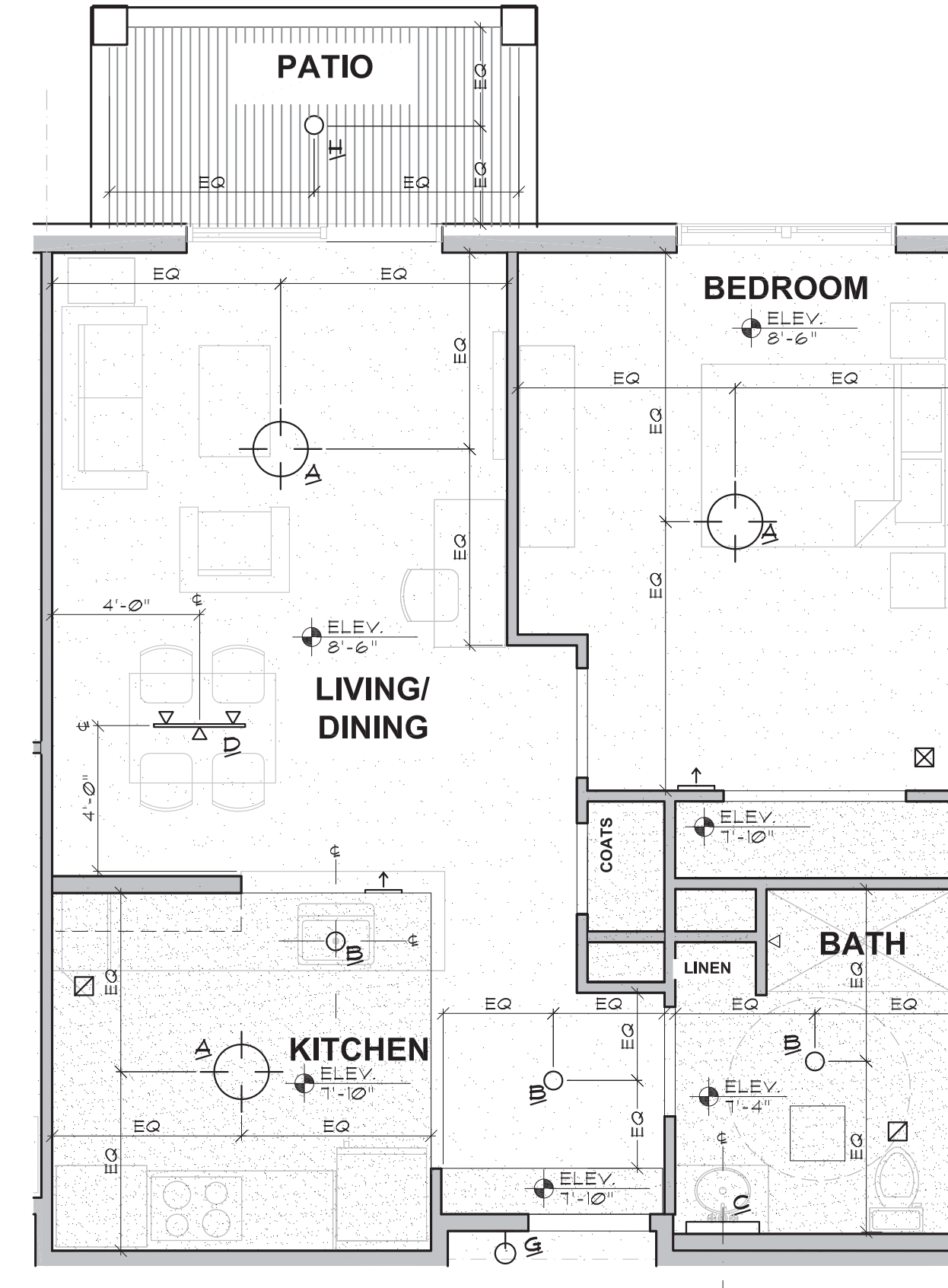




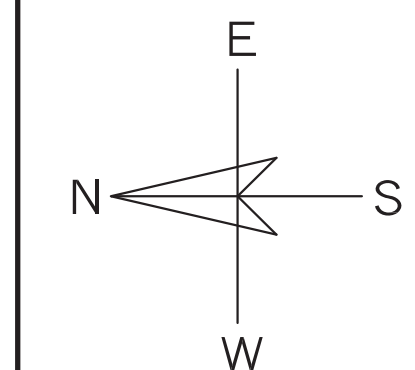
**TYPE 4 UNIT RCP TYPICAL** ① 1/4" = 1'-0"  
ONE BEDROOM: GROUP 1



**TYPE 4.1 UNIT RCP** ② 1/4" = 1'-0"  
ONE BEDROOM: ADA



**TYPE 4.2 UNIT RCP** ③ 1/4" = 1'-0"  
ONE BEDROOM: GROUP 2A



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Wareham, MA 02532



SHEET CONTENTS:  
Unit Types  
Reflected Ceiling Plans

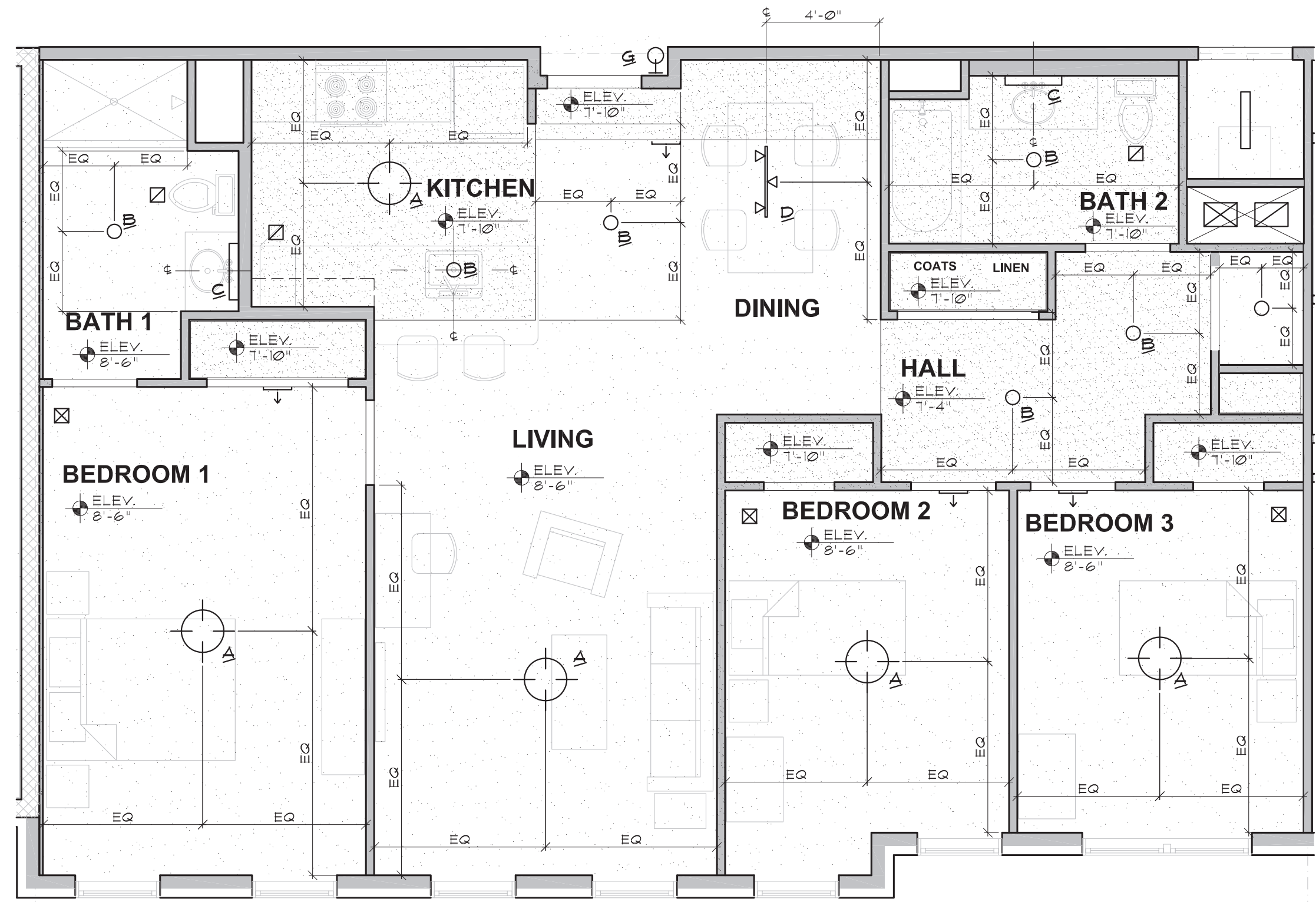
PROJECT # 1420  
DATE: 9/22/2020  
REVISED DATE:  
① REVISED: 02/16/2021

**A1.13**

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**Ed Wojcik**  
*architect, ltd*  
One Richmond Square  
Providence, RI 02906  
401-861-7139

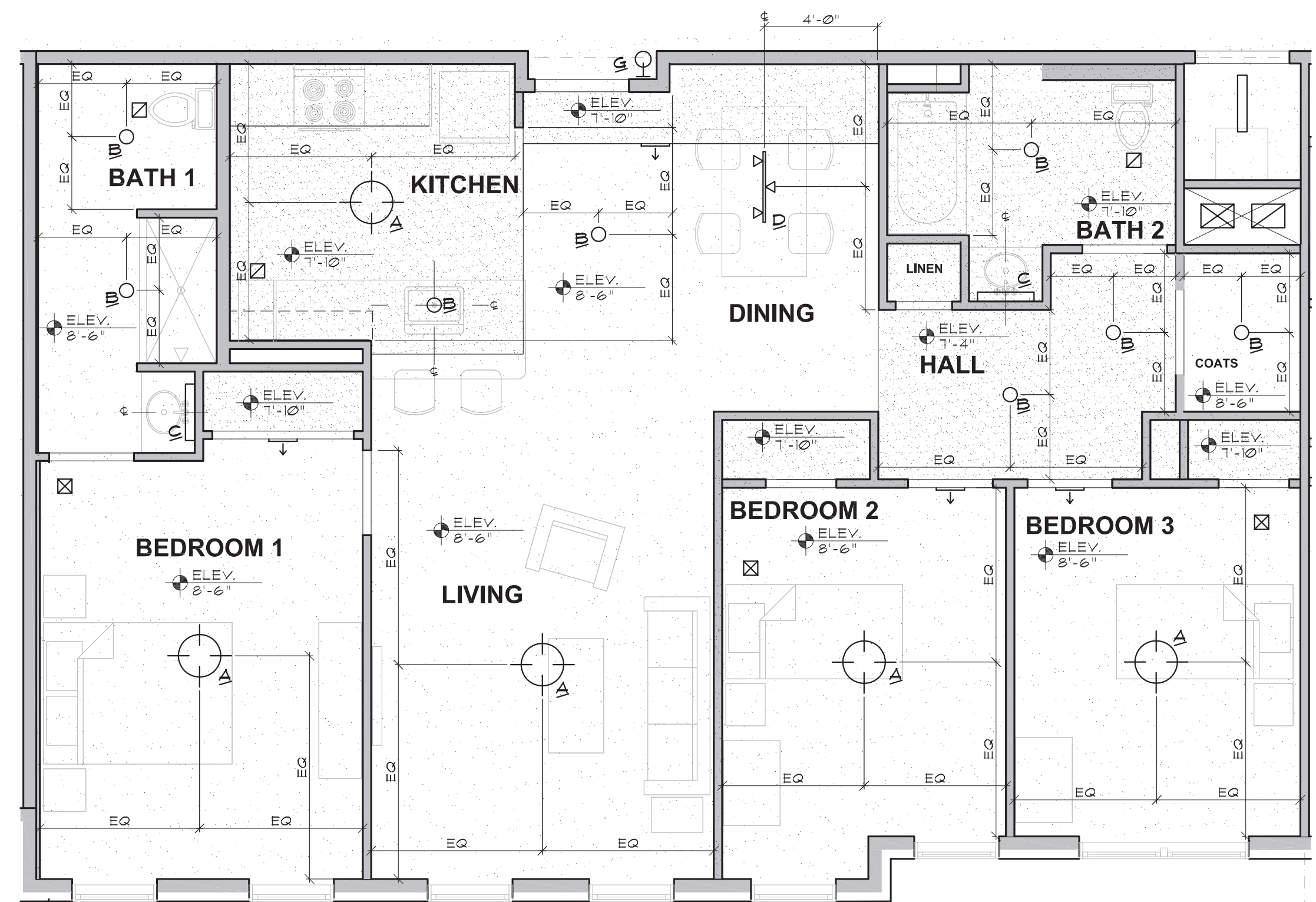
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**TYPE 5 UNIT RCP TYPICAL**

THREE BEDROOM, GROUP 1

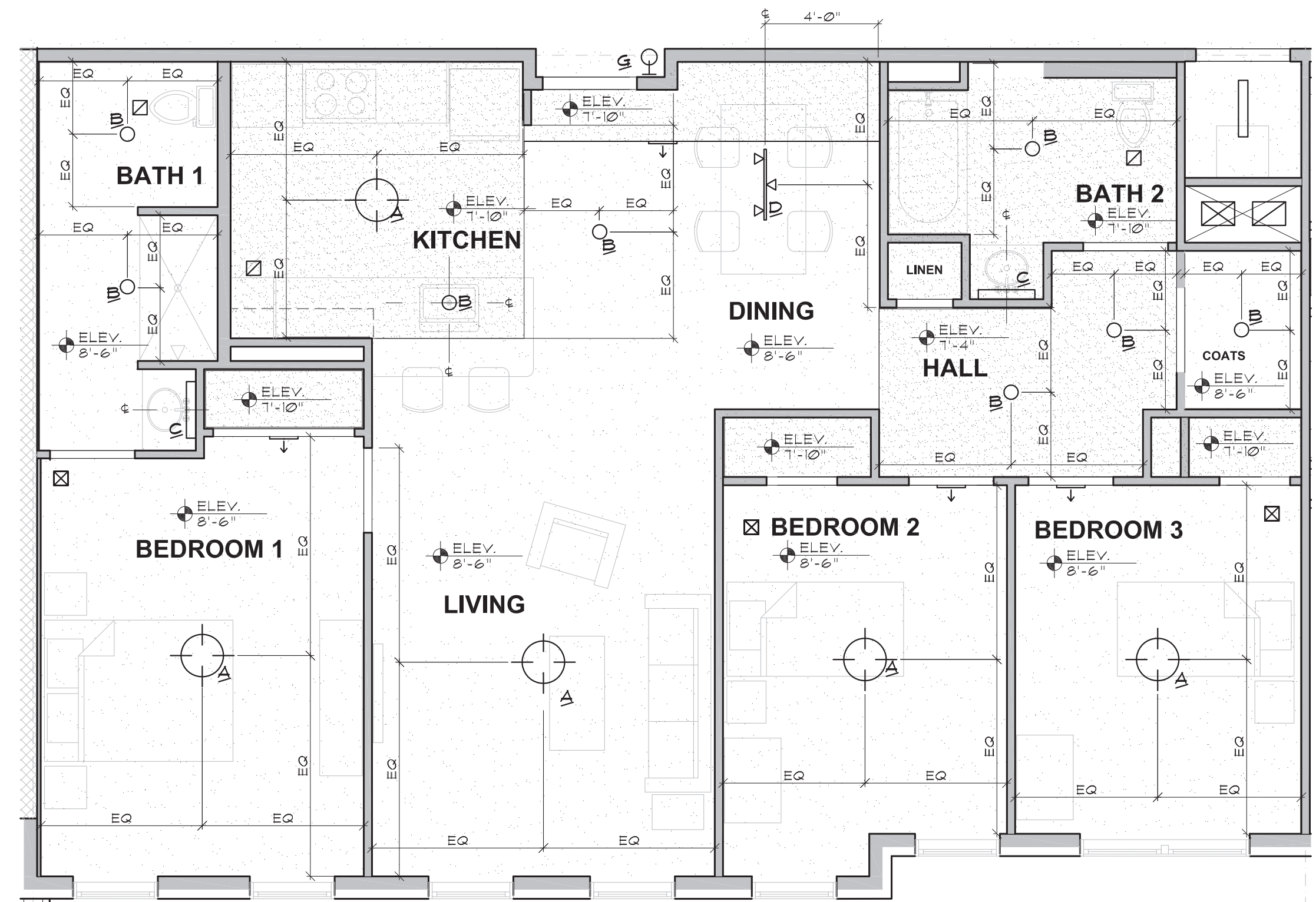
① 1/4" = 1'-0"



**TYPE 5.1 UNIT RCP**

THREE BEDROOM, ADA

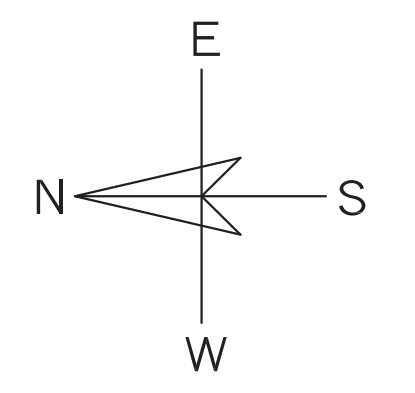
② 1/4" = 1'-0"



**TYPE 5.2 UNIT RCP**

THREE BEDROOM, GROUP 2A

③ 1/4" = 1'-0"



SHEET CONTENTS:  
Unit Types  
Reflected Ceiling Plans

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REVISED DATE:  
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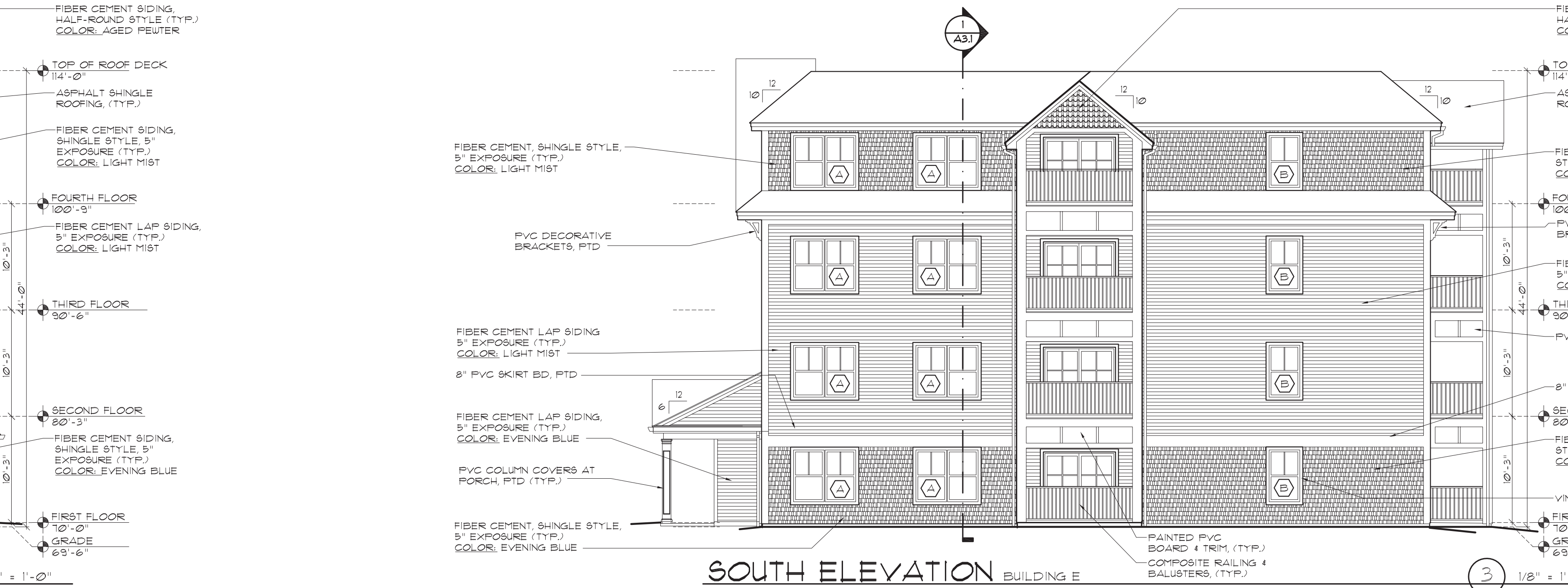
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**WEST ELEVATION** BUILDING E



**NORTH ELEVATION** BUILDING E



**SOUTH ELEVATION** BUILDING E

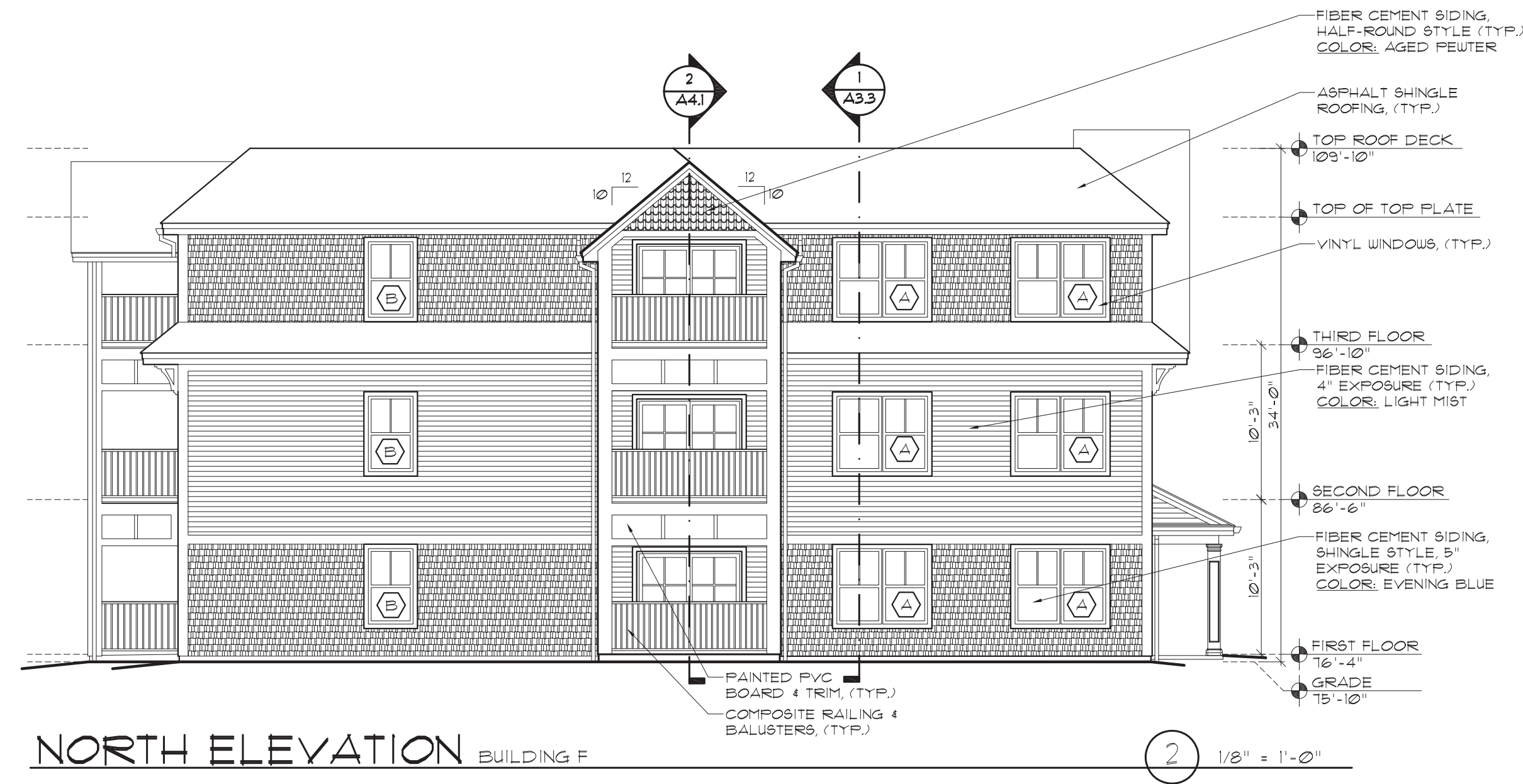


**EAST ELEVATION** BUILDING E

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WEST ELEVATION BUILDING F



NORTH ELEVATION BUILDING F



SOUTH ELEVATION BUILDING F



EAST ELEVATION BUILDING F

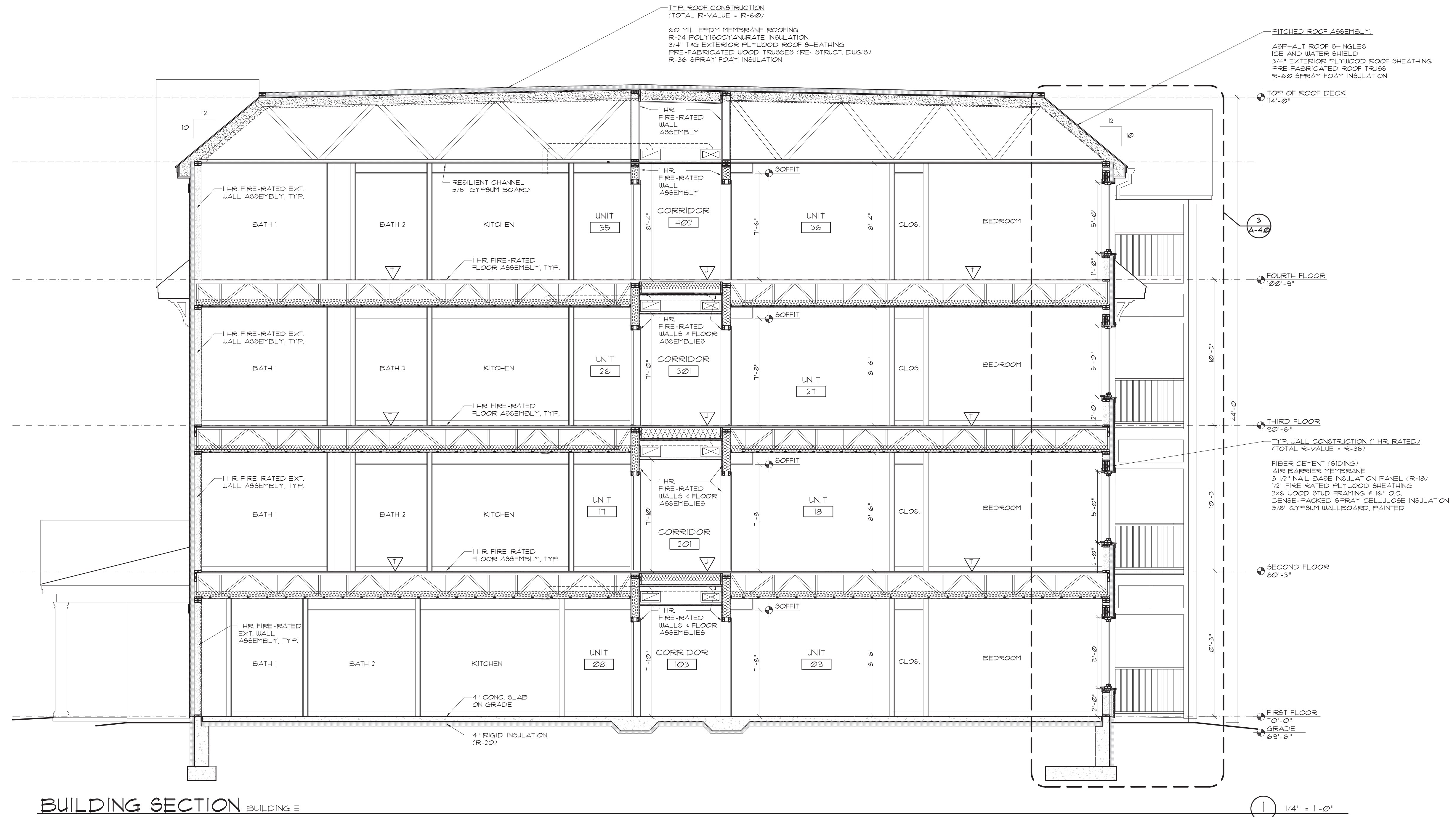


SHEET CONTENTS:  
Building F:  
Exterior Elevations

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**BUILDING SECTION** BUILDING E

Proposed Design for:  
**Woodland Cove**  
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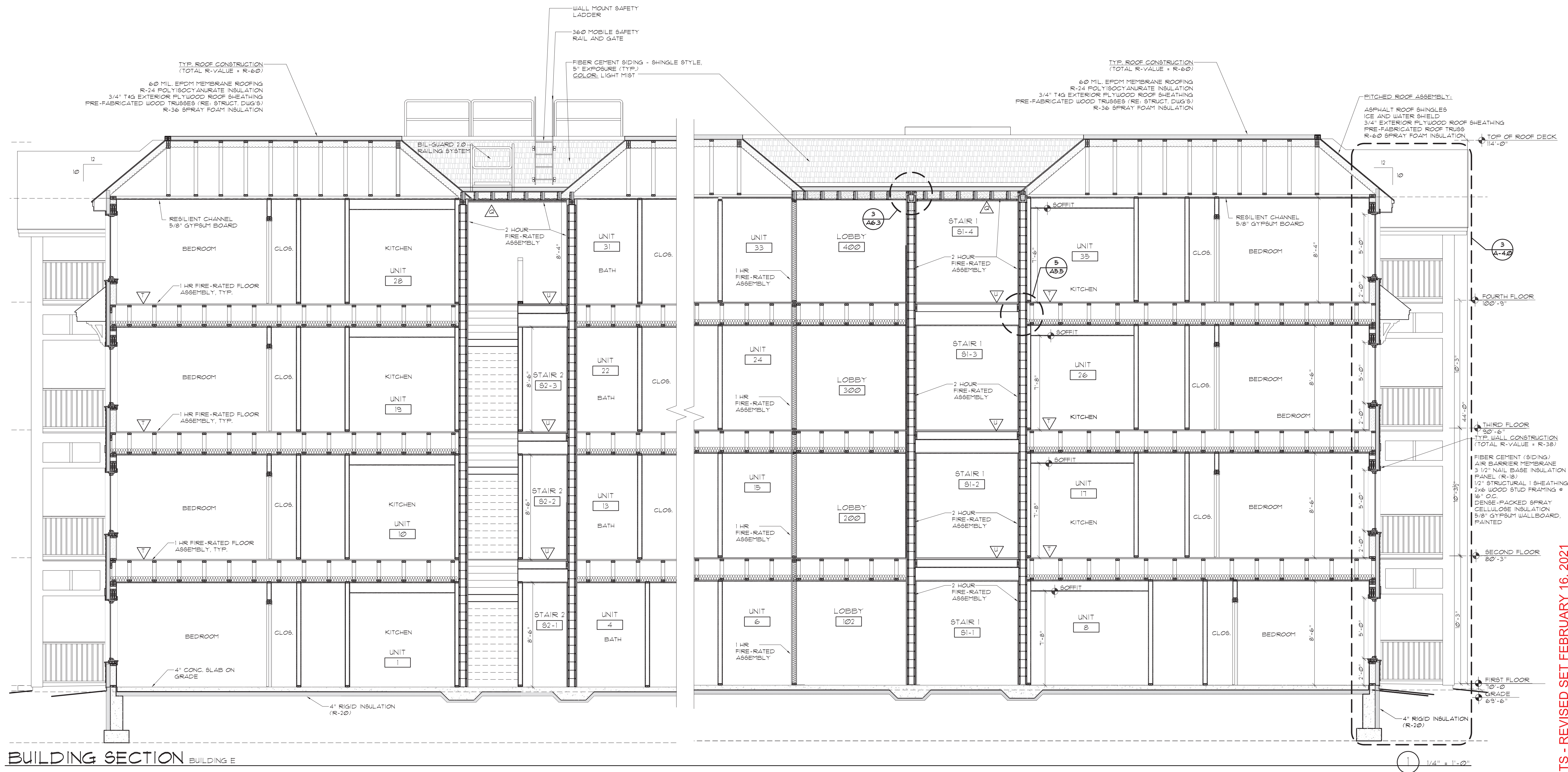


**SHEET CONTENTS:**  
 Building E:  
 Building Sections

PROJECT # 1420  
 DATE: 9/22/2020  
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 REVISED: 02/16/2021

**A3.0**

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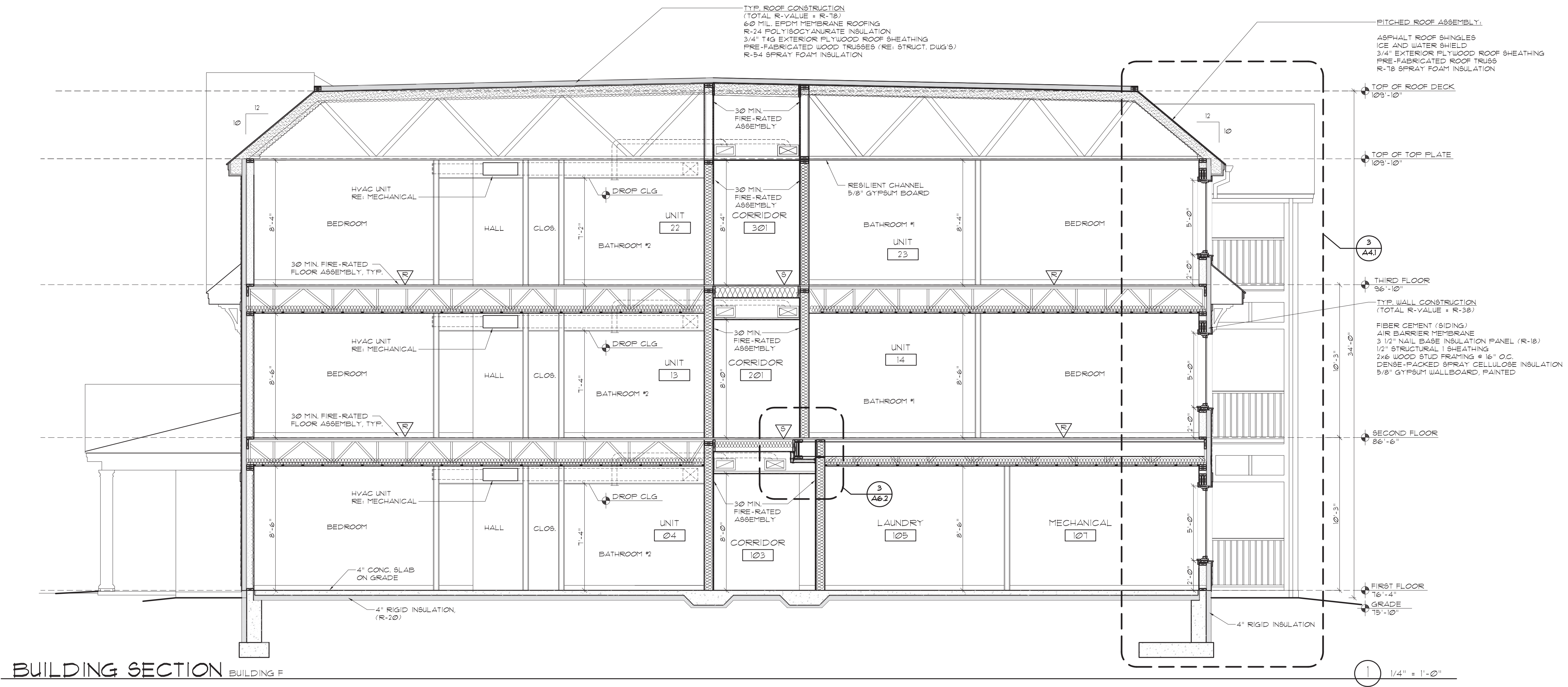
**BUILDING SECTION** BUILDING E

CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021



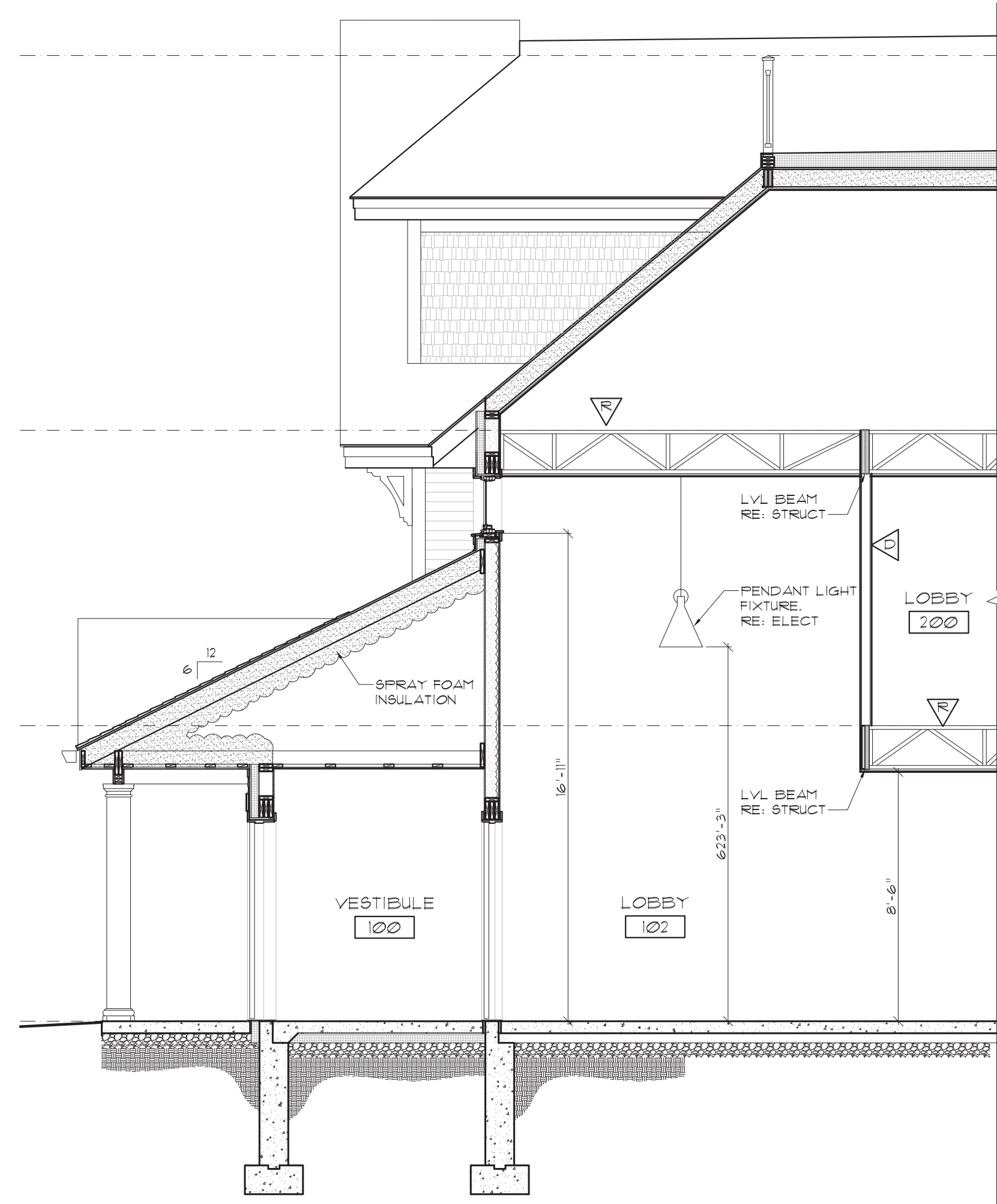
**SHEET CONTENTS:**  
 Building E:  
 Building Sections

PROJECT # 1420  
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BUILDING SECTION BUILDING F

1 1/4" = 1'-0"



BUILDING SECTION BUILDING F

2 1/4" = 1'-0"

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**Ed Wojcik**  
architect, ltd  
One Richmond Square  
Providence, RI 02906  
401-861-7139

Proposed Design for:  
**Woodland Cove**  
**Phase I**  
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Wareham, MA 02532

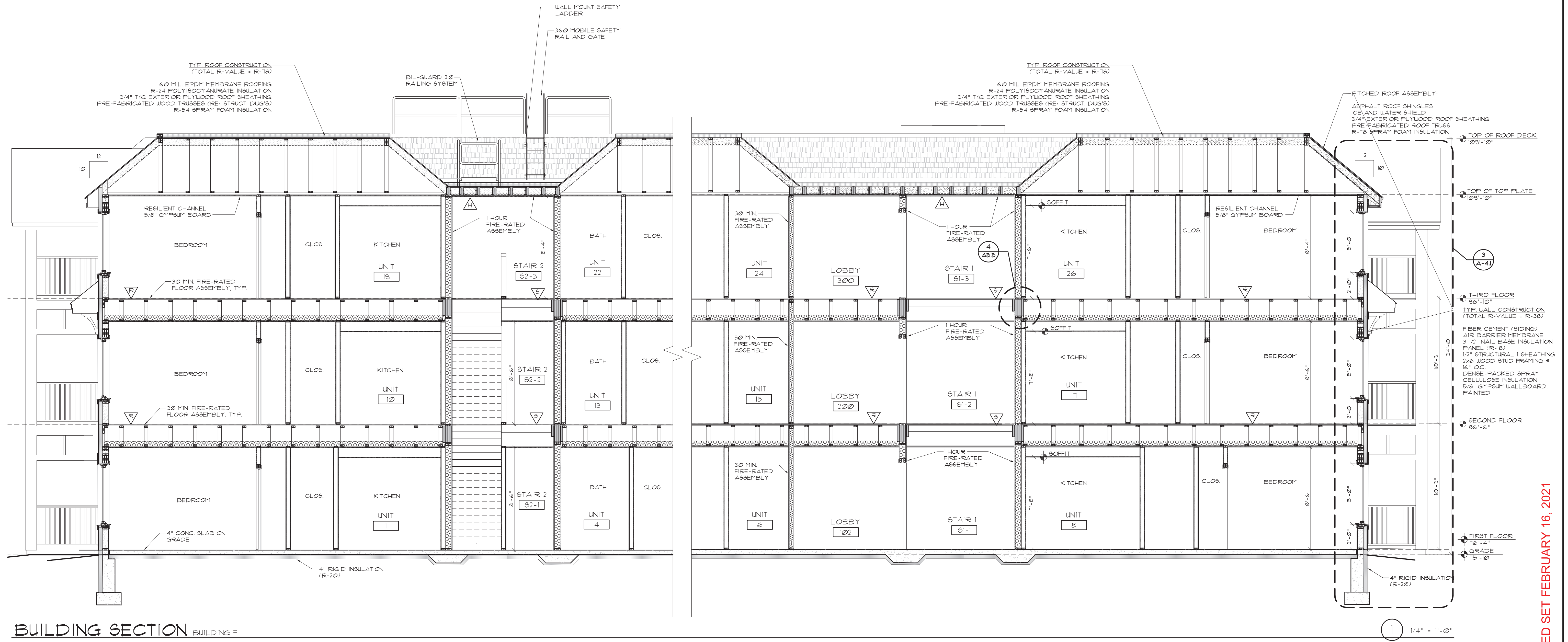


SHEET CONTENTS:  
Building F:  
Building Sections

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**A3.2**

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**BUILDING SECTION** BUILDING F

1/4" = 1'-0"

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Proposed Design for:  
**Woodland Cove**  
**Phase I**  
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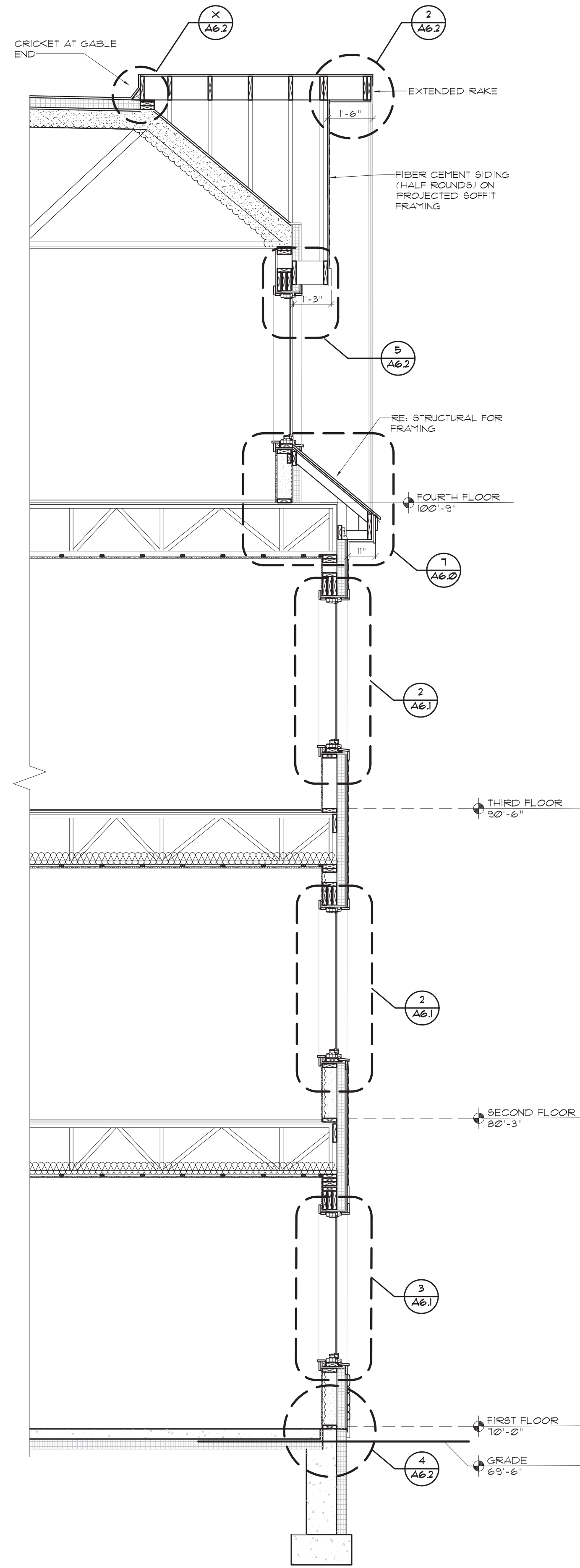
SHEET CONTENTS:  
 Building F:  
 Building Sections

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**A3.3**

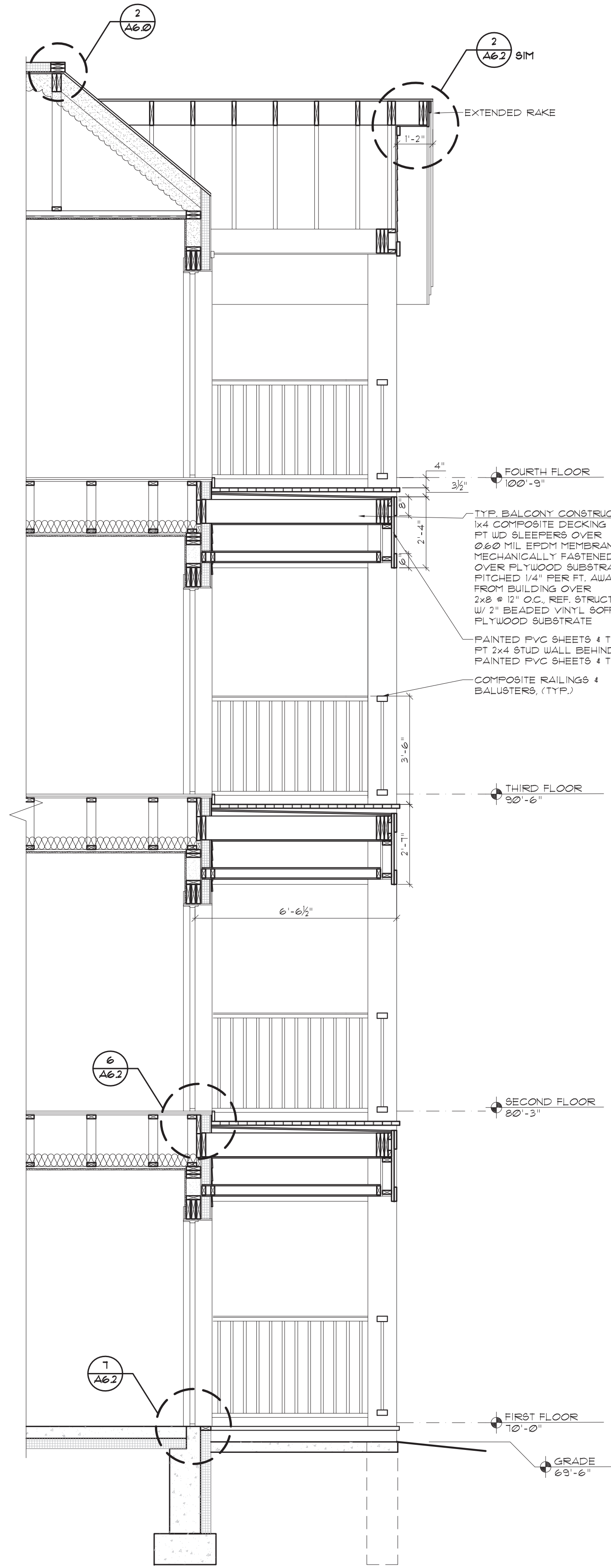
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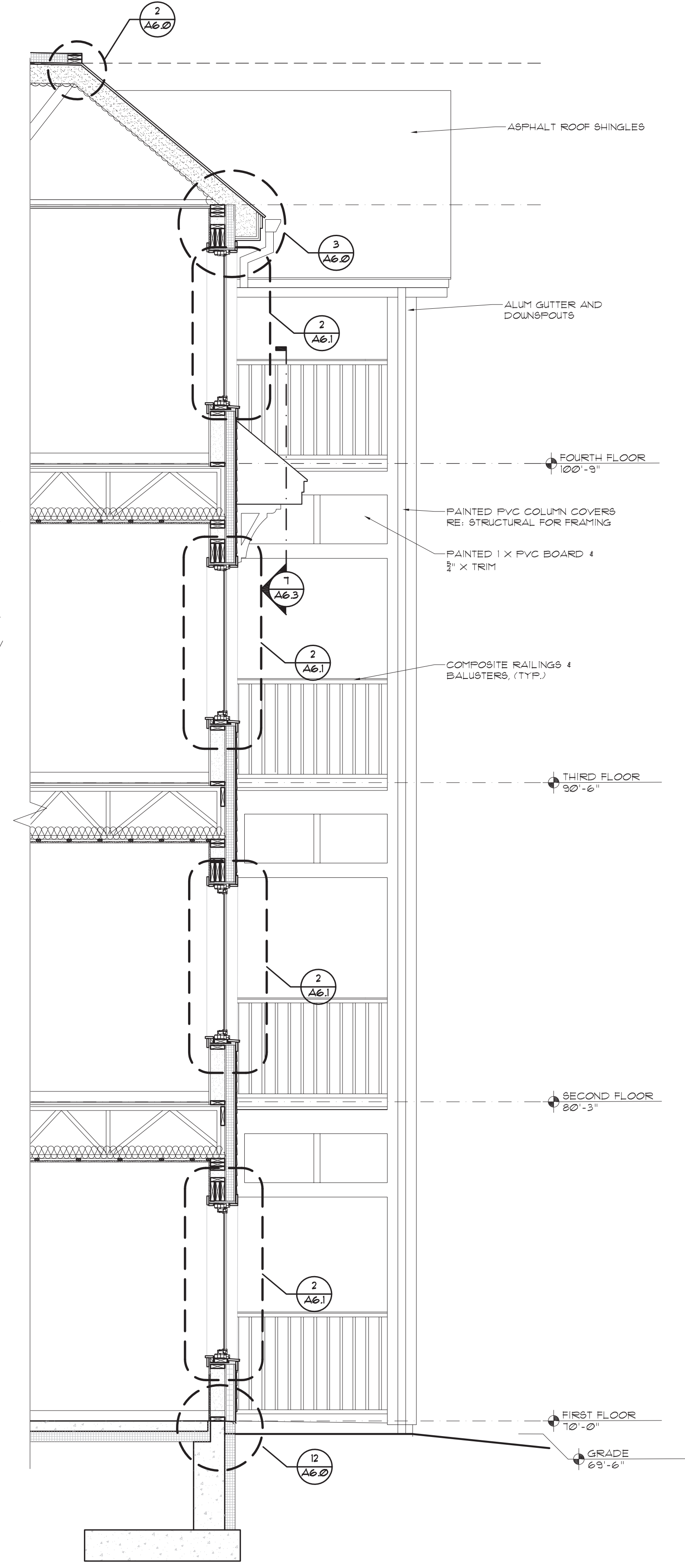


WALL SECTIONS BUILDING E

1



2



3 1/4" = 1'-0"

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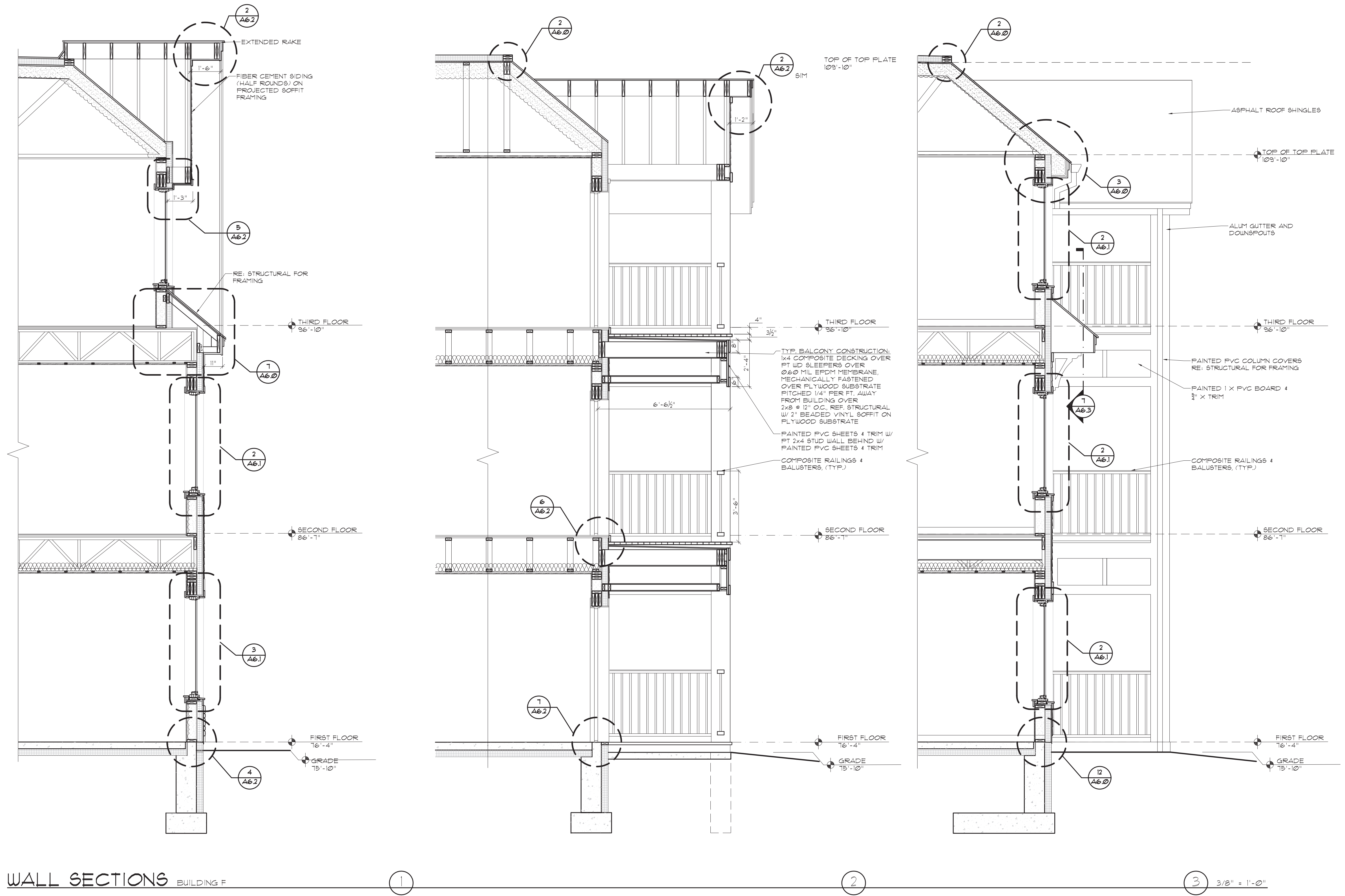


SHEET CONTENTS:  
Building E:  
Wall Sections

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**A4.0**

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WALL SECTIONS BUILDING F

1

2

3 3/8" = 1'-0"

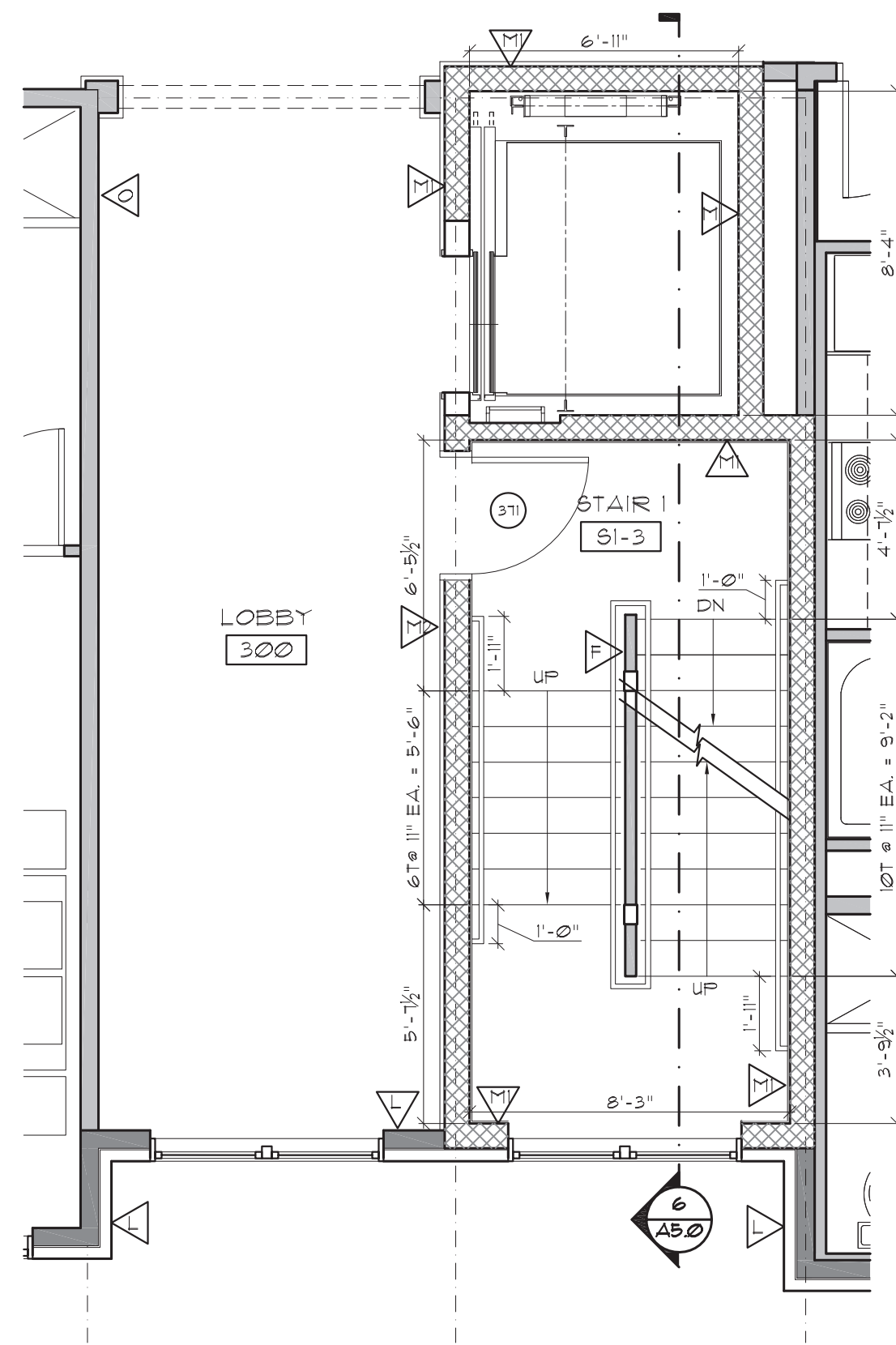
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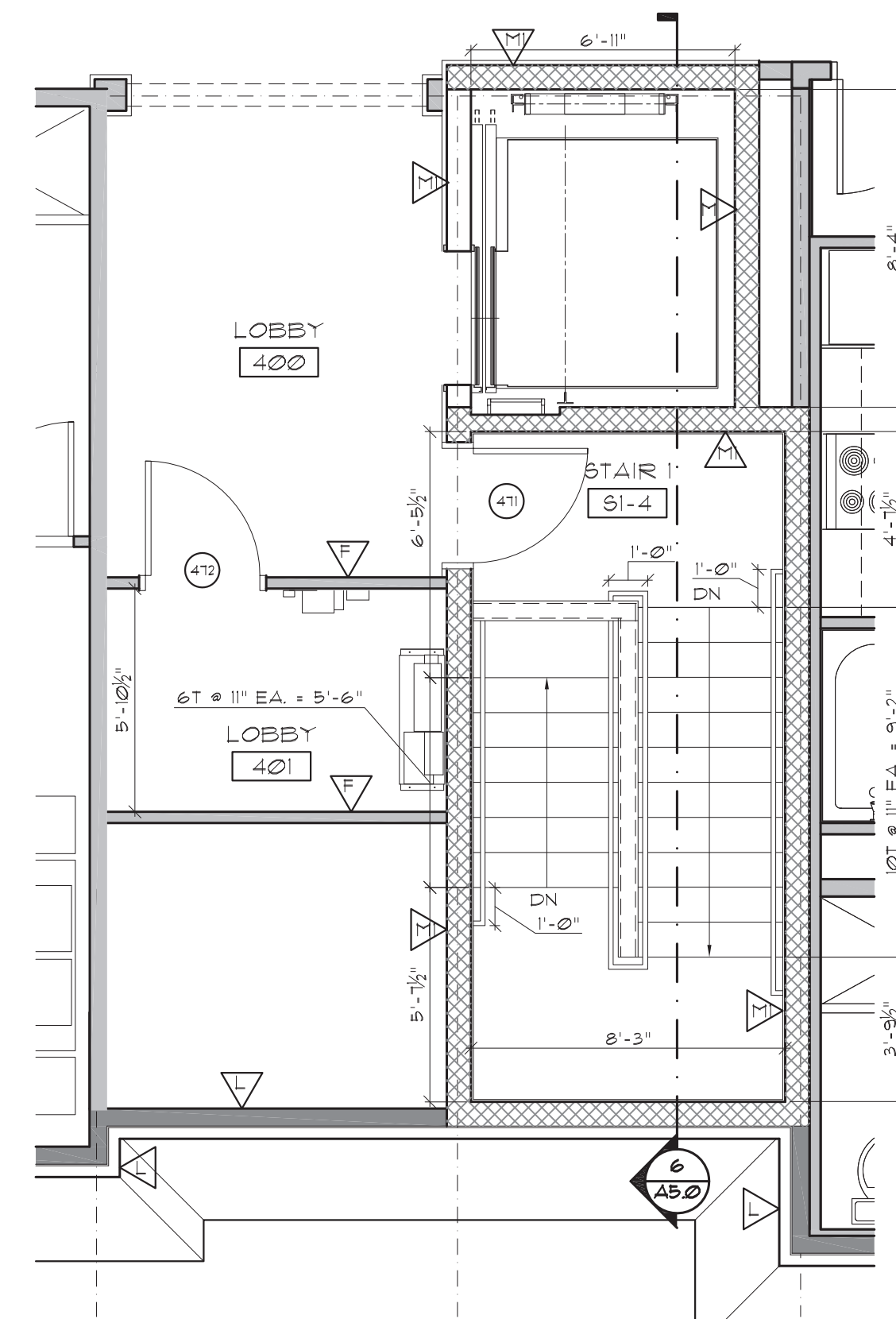
SHEET CONTENTS:  
 Building F:  
 Wall Sections

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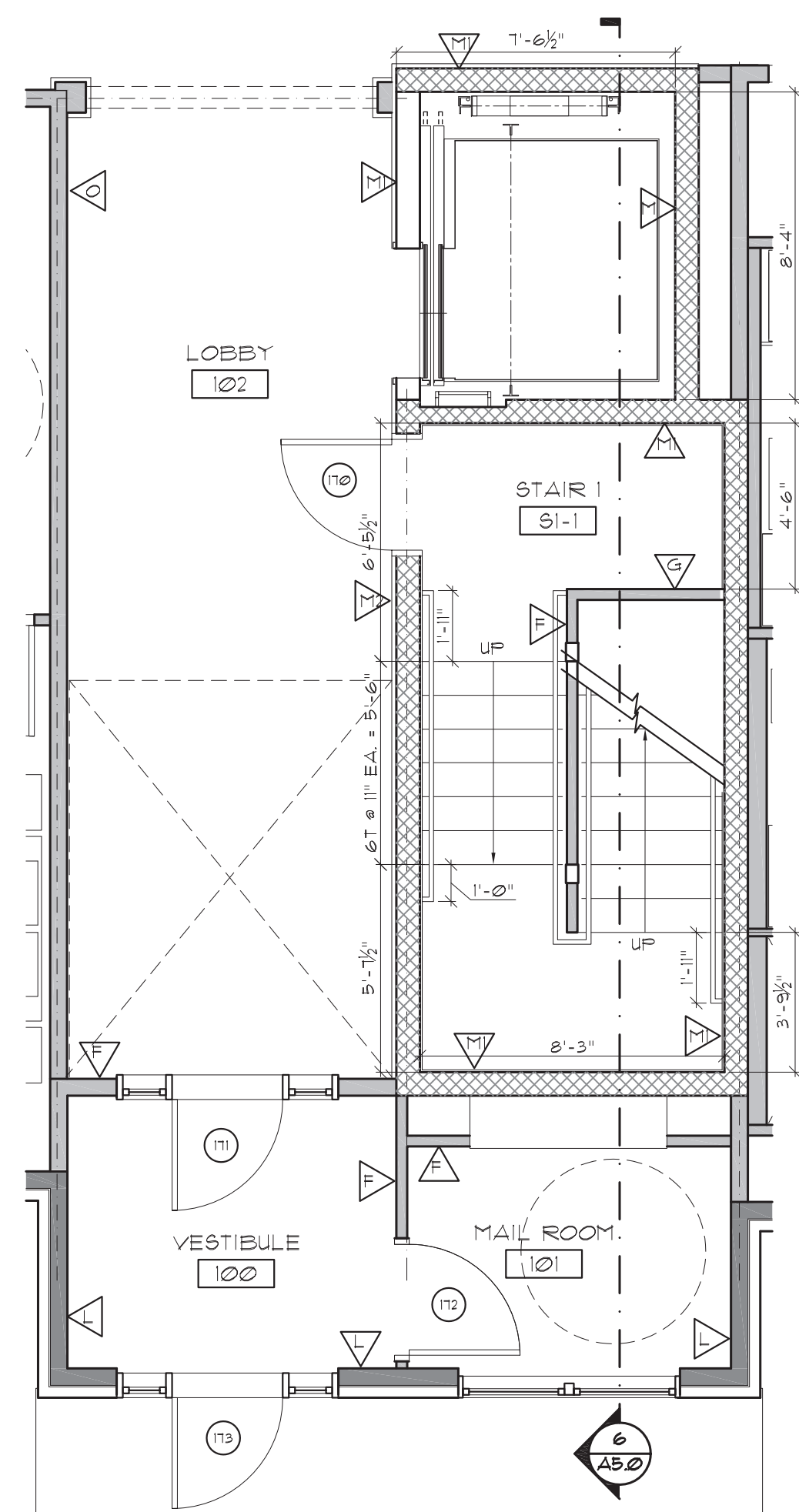
A4.1



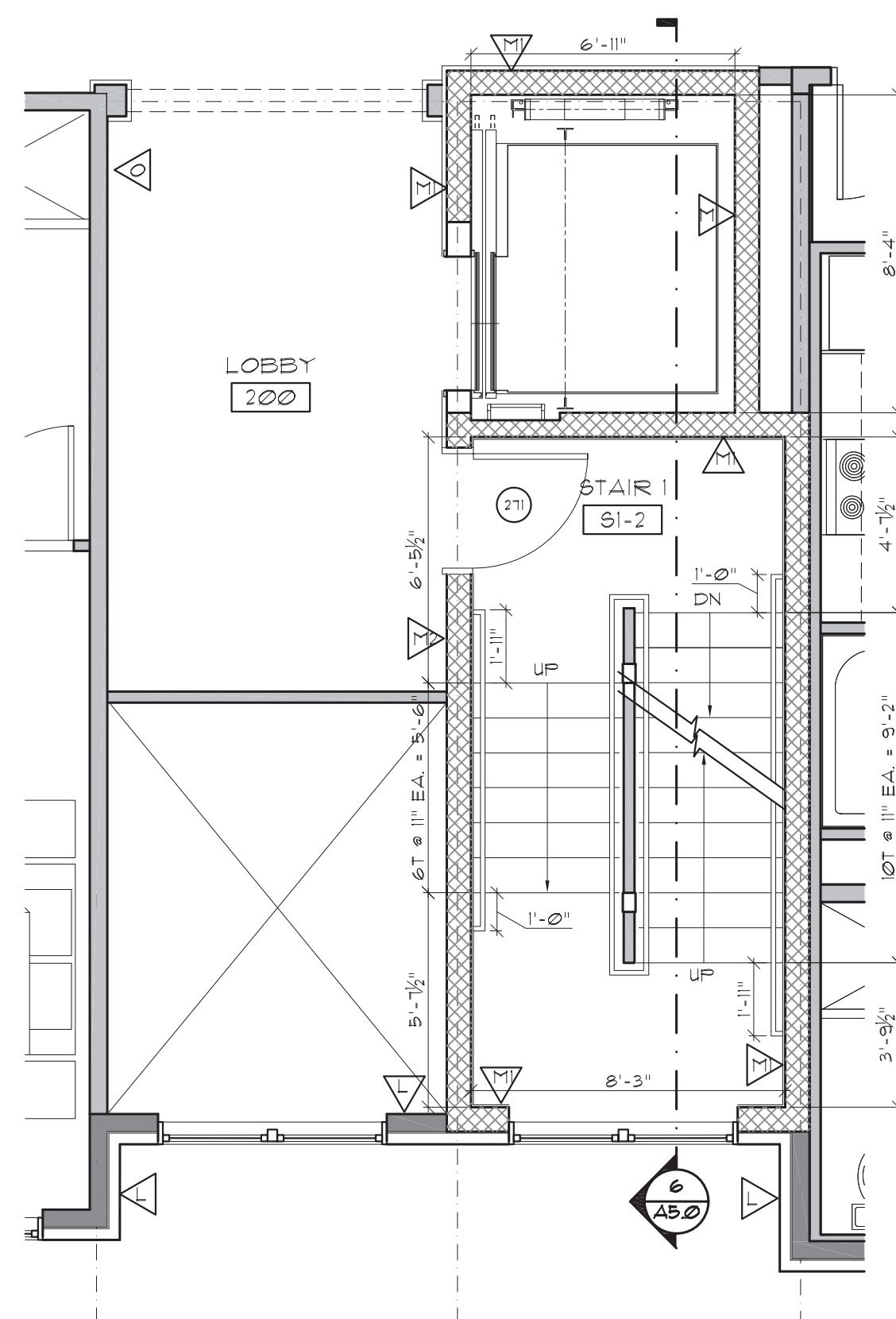
THIRD FLOOR PLAN STAIR 1 (4) 1/4" = 1'-0"  
BUILDING E



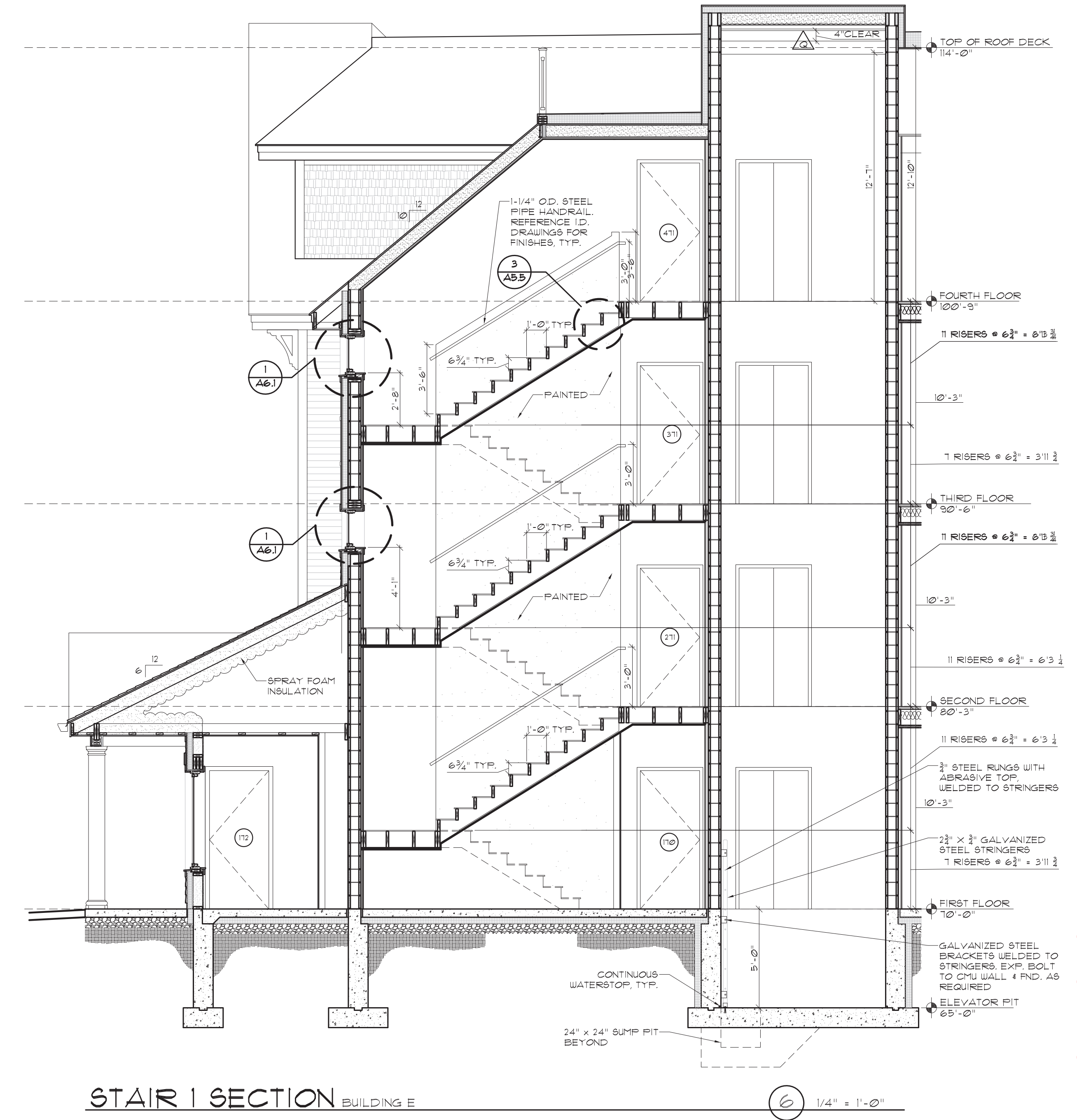
FOURTH FLOOR PLAN STAIR 1 (5) 1/4" = 1'-0"  
BUILDING E



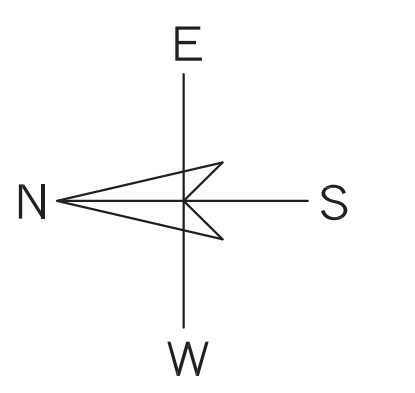
FIRST FLOOR PLAN STAIR 1 (2) 1/4" = 1'-0"  
BUILDING E



SECOND FLOOR PLAN STAIR 1 (3) 1/4" = 1'-0"  
BUILDING E



STAIR 1 SECTION BUILDING E (6) 1/4" = 1'-0"



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**Woodland Cove**  
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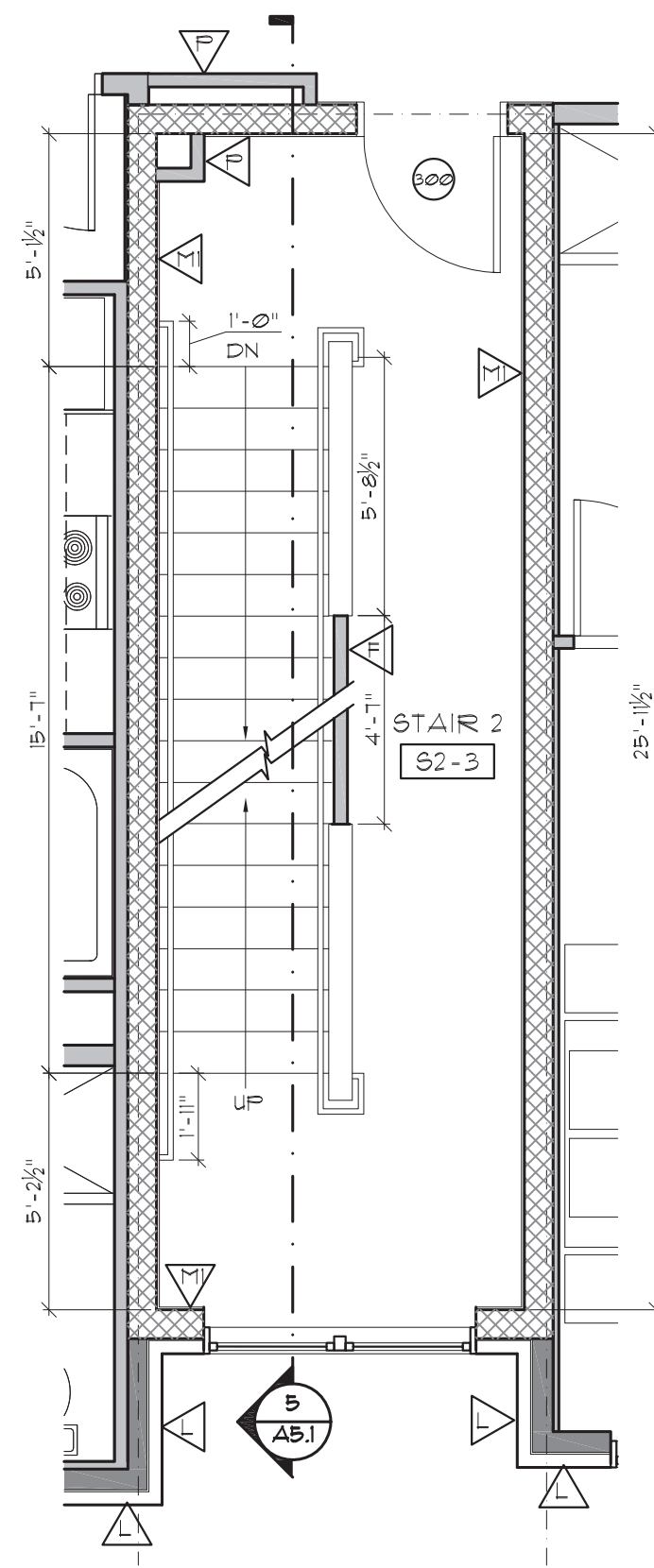
SHEET CONTENTS:  
Building E: Enlarged  
Stair Plans and Section

PROJECT # 1420  
DATE: 9/22/2020  
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REVISED: 02/16/2021

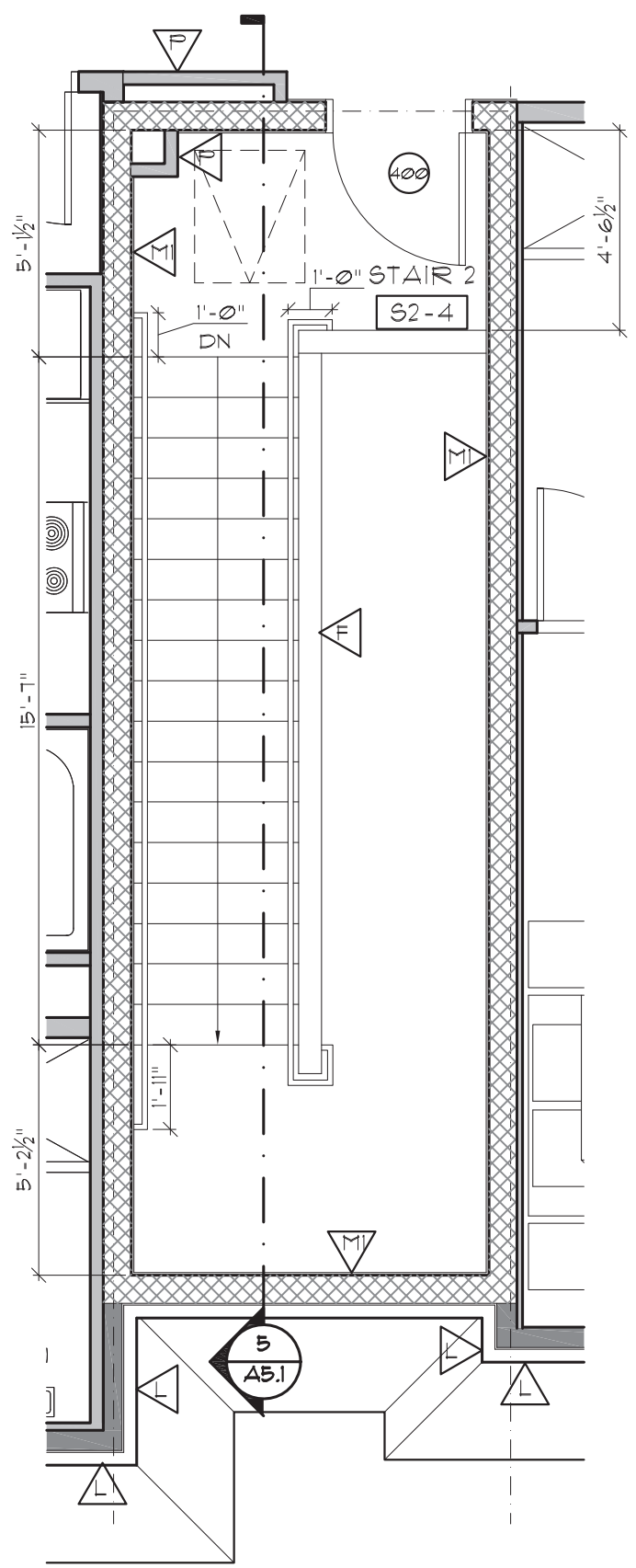
**A5.0**

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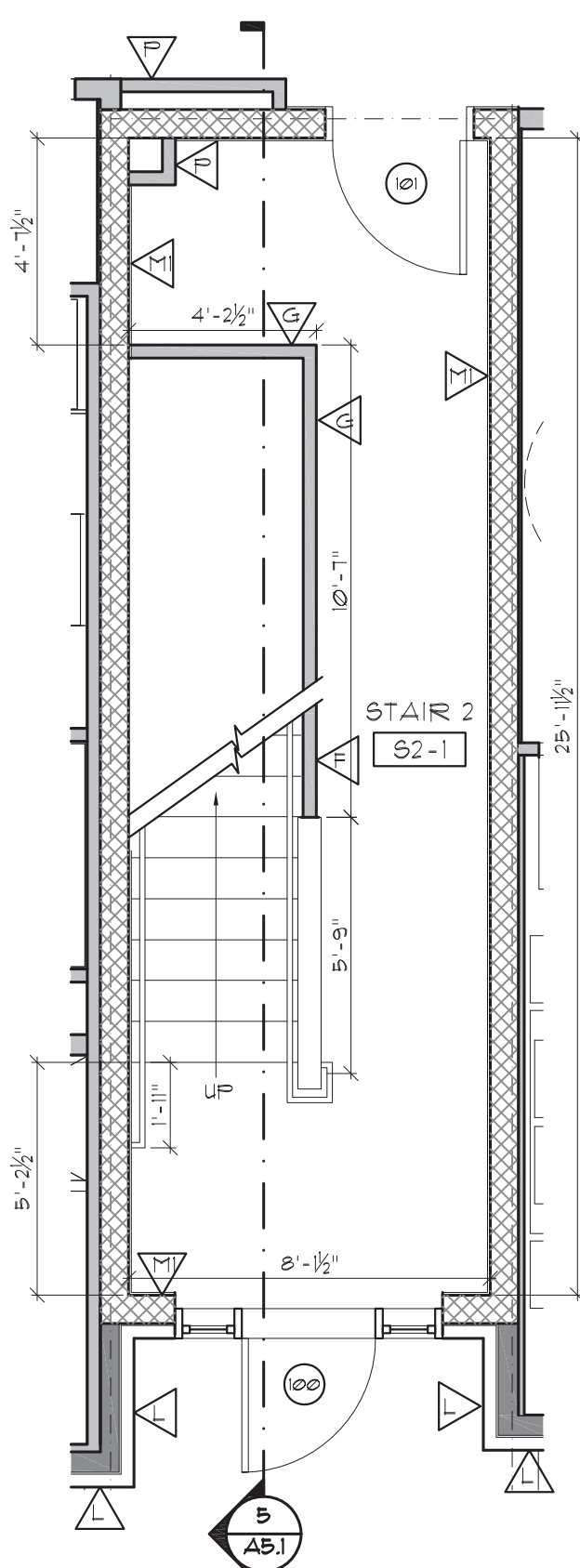
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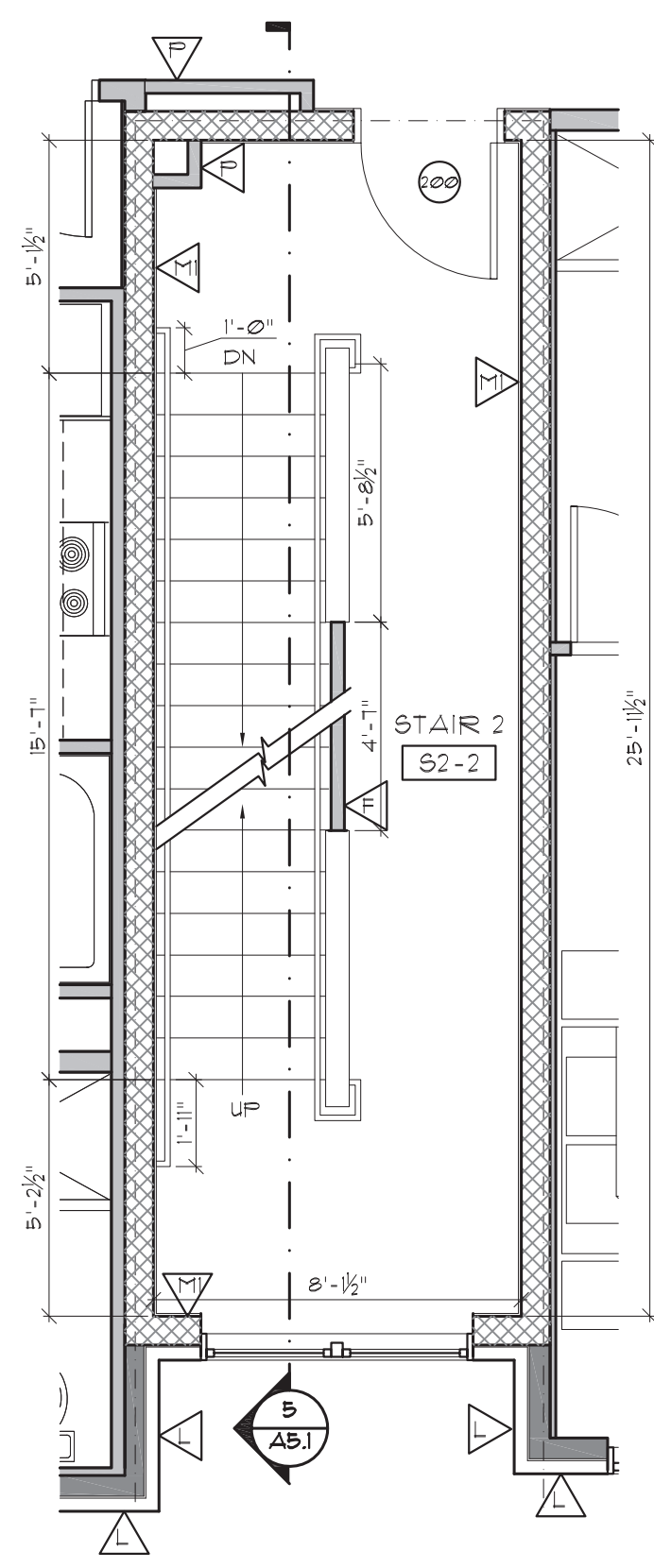
THIRD FLOOR PLAN STAIR 2 (3) 1/4" = 1'-0"  
BUILDING E



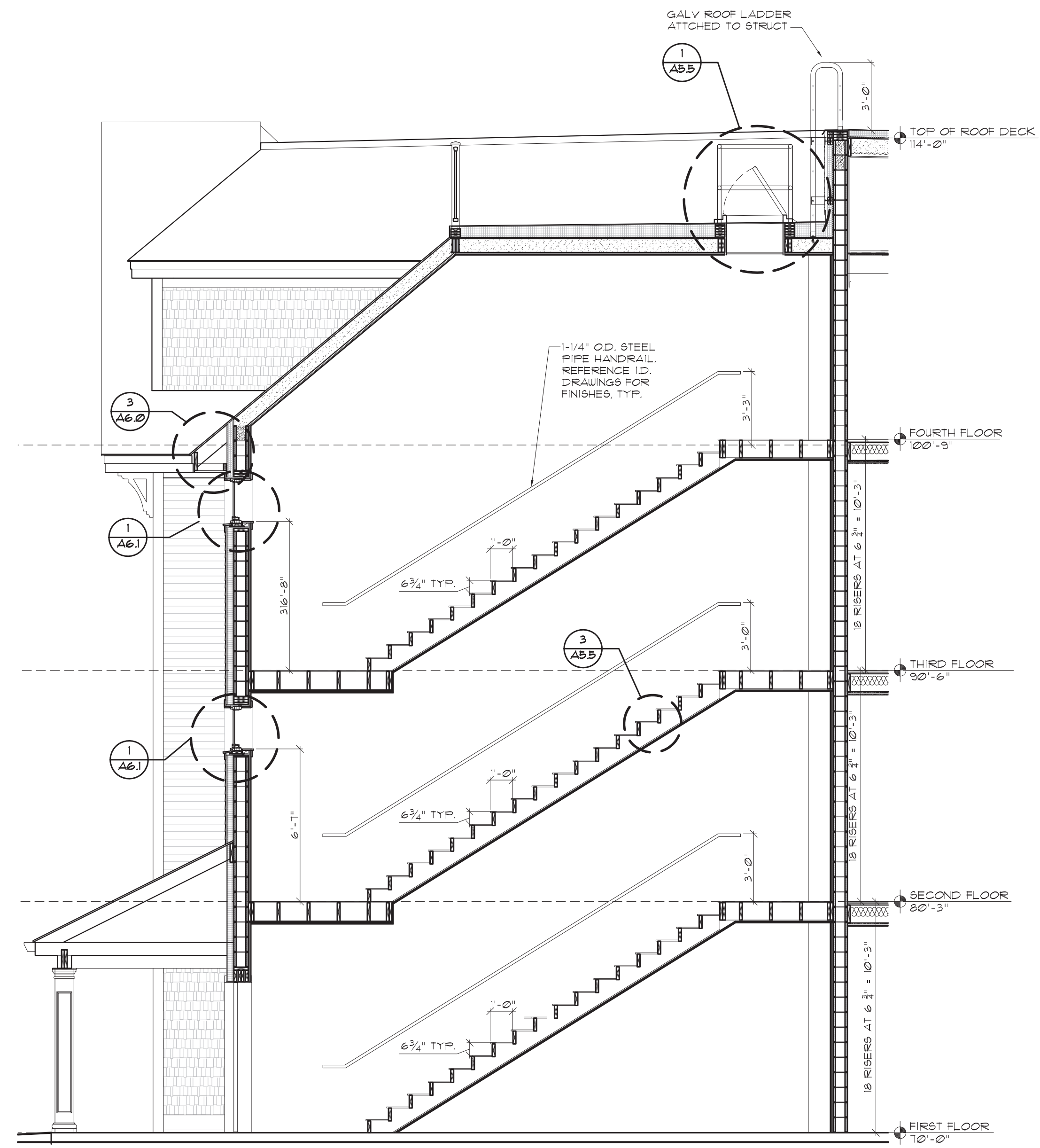
FOURTH FLOOR PLAN STAIR 2 (4) 1/4" = 1'-0"  
BUILDING E



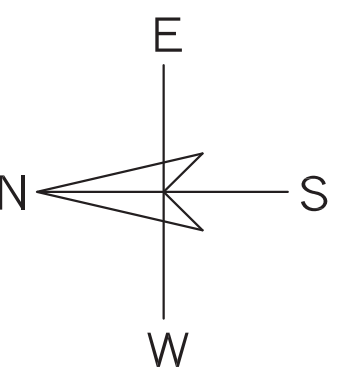
FIRST FLOOR PLAN STAIR 2 (1) 1/4" = 1'-0"  
BUILDING E



SECOND FLOOR PLAN STAIR 2 (2) 1/4" = 1'-0"  
BUILDING E



STAIR 2 SECTION BUILDING E (5) 1/4" = 1'-0"



Proposed Design for:  
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3102 Cranberry Highway  
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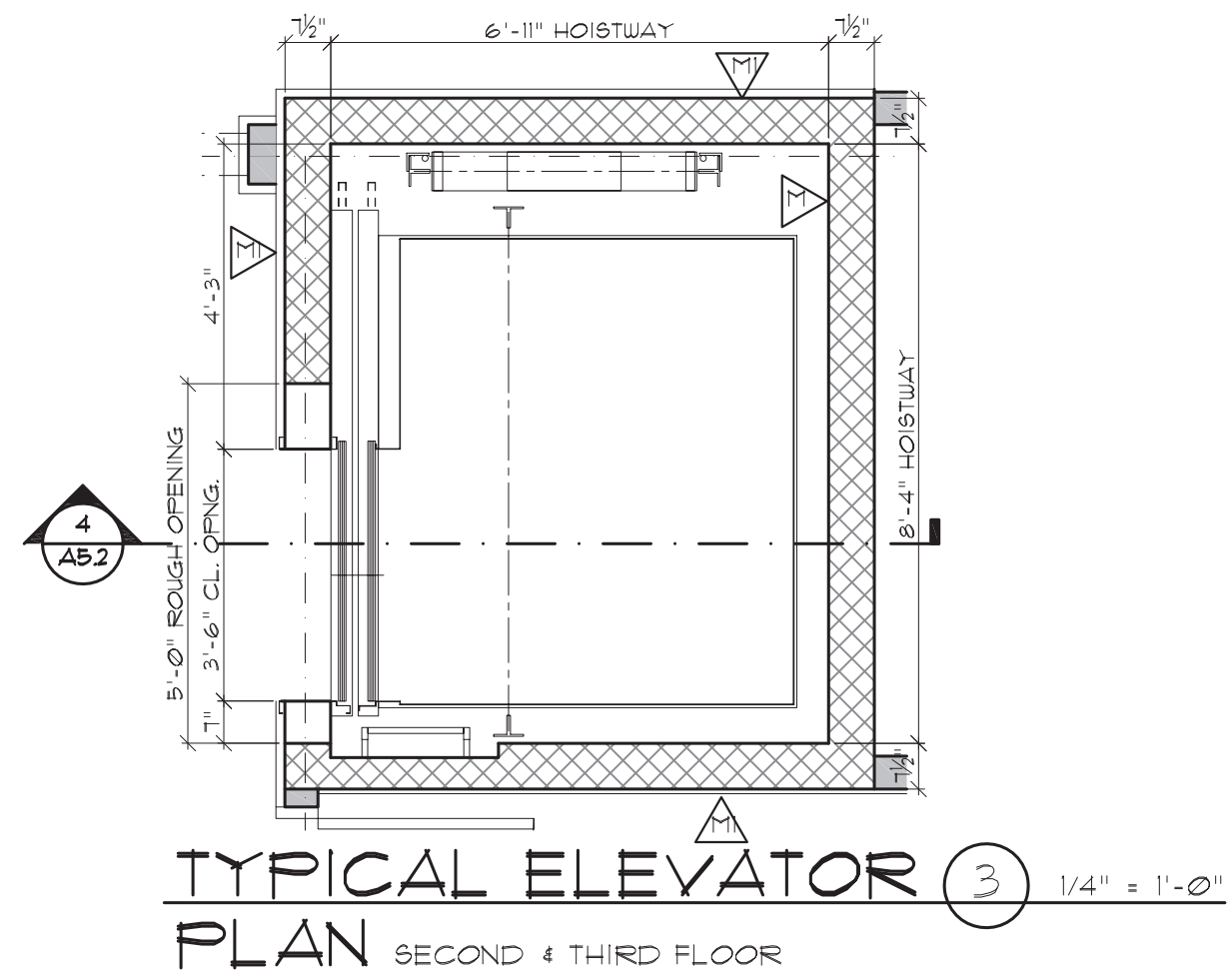
SHEET CONTENTS:  
Building E: Enlarged  
Stair Plans and Section

PROJECT # 1420  
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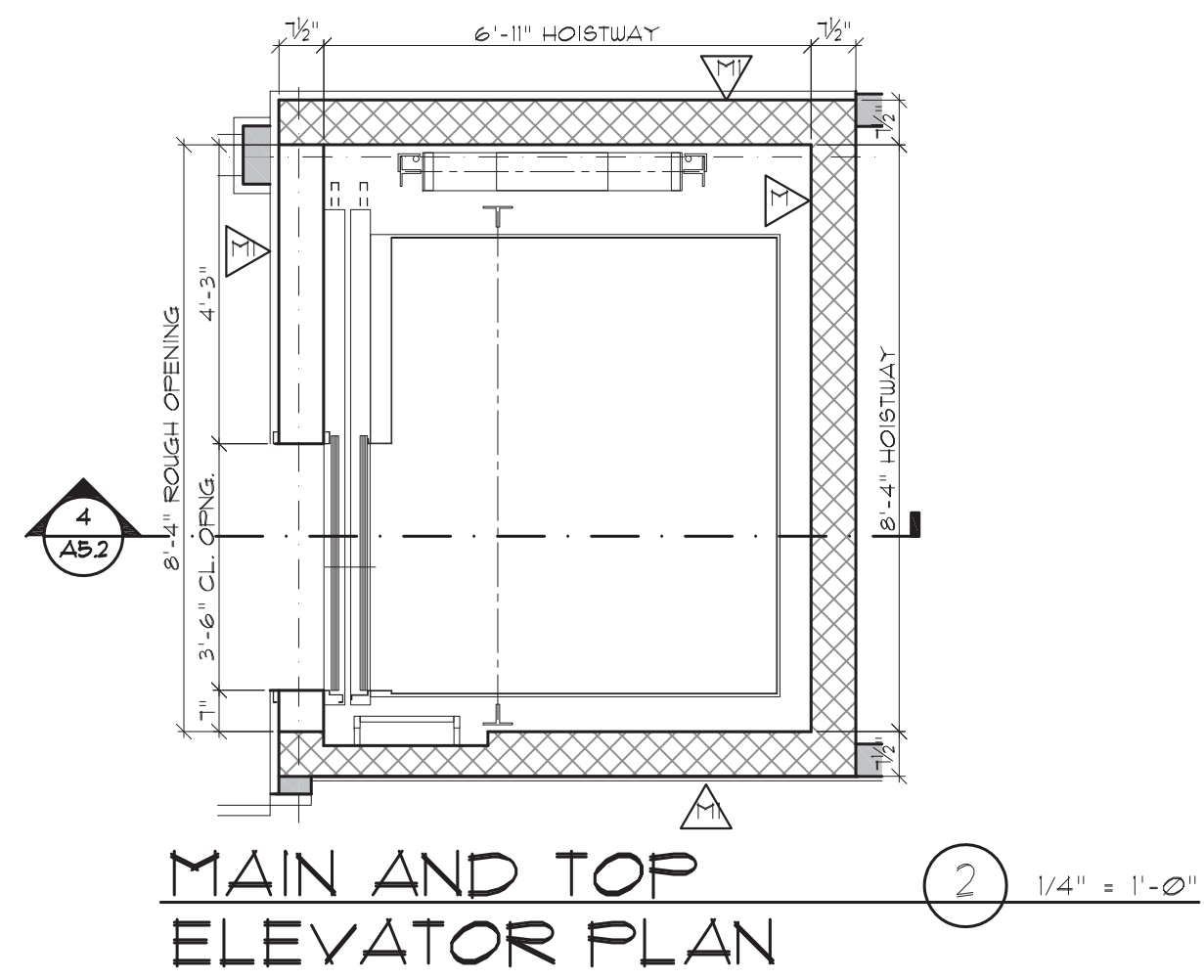
**A5.1**

**Ed Wojcik**  
architect, ltd  
One Richmond Square  
Providence, RI 02906  
401-861-7139

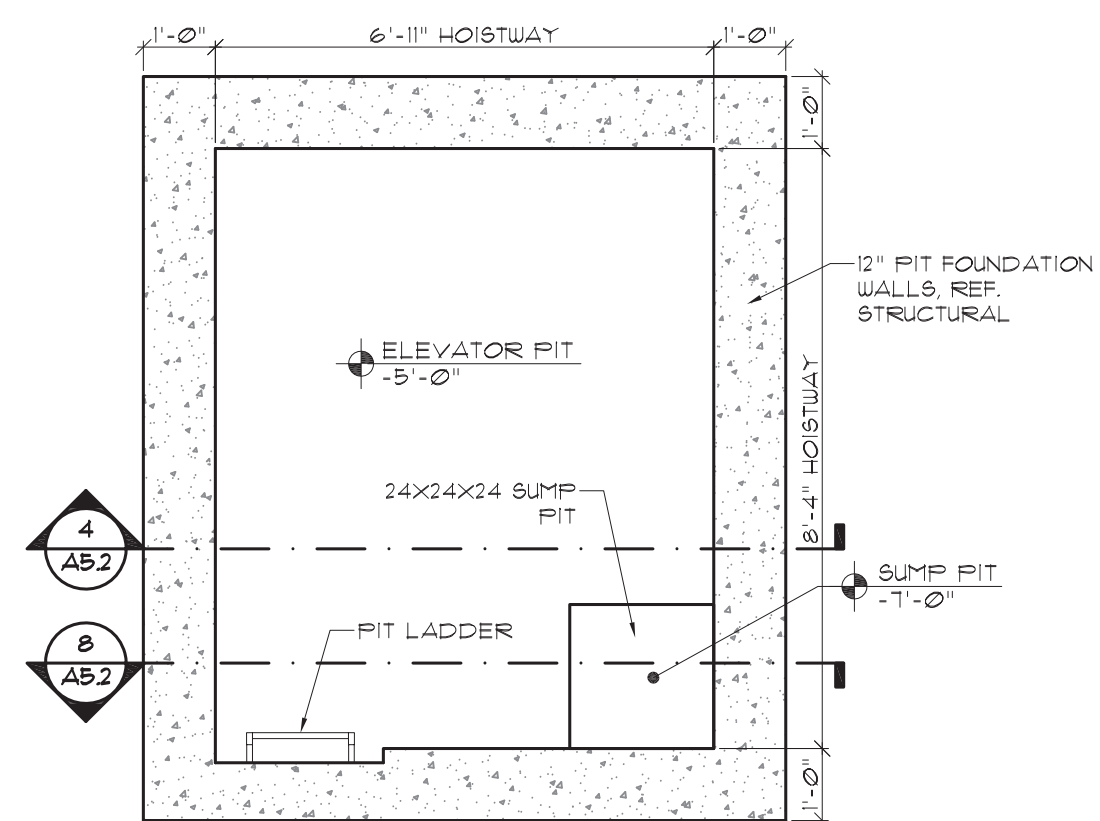
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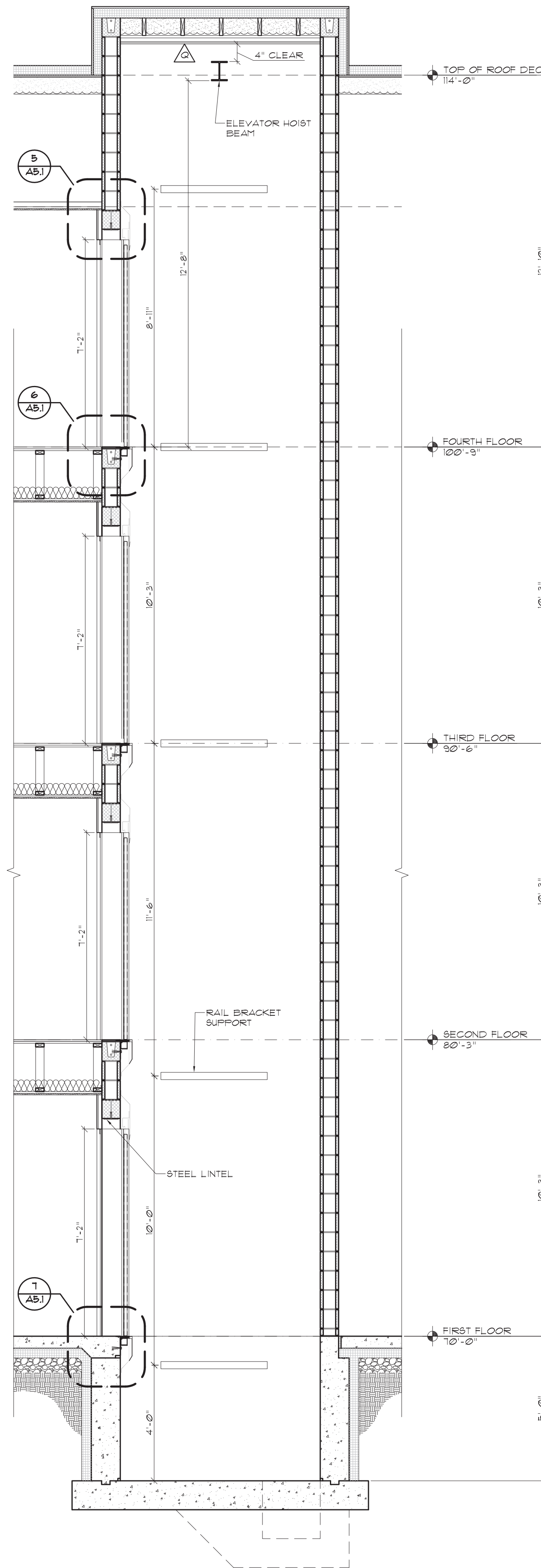
**TYPICAL ELEVATOR PLAN** SECTION 3 1/4" = 1'-0"



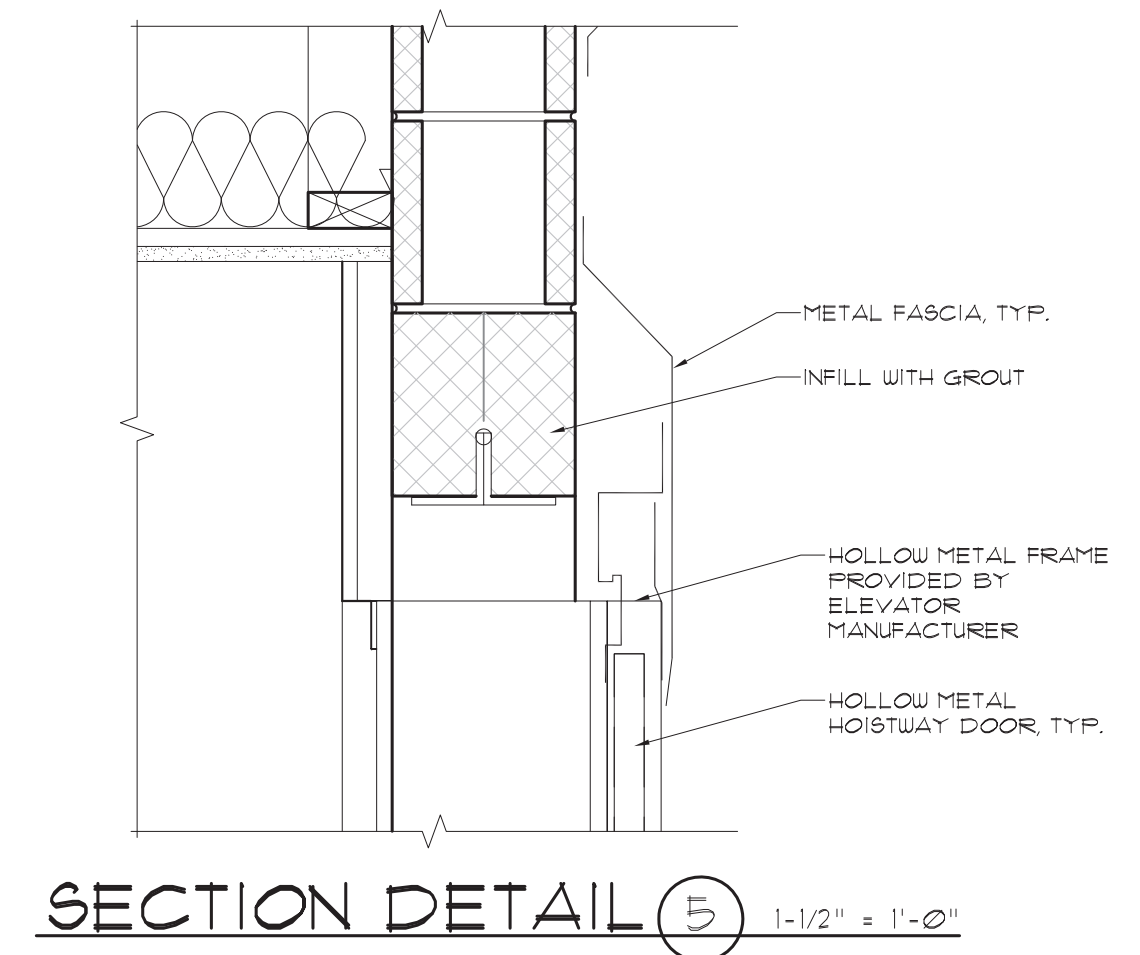
**MAIN AND TOP ELEVATOR PLAN** SECTION 2 1/4" = 1'-0"



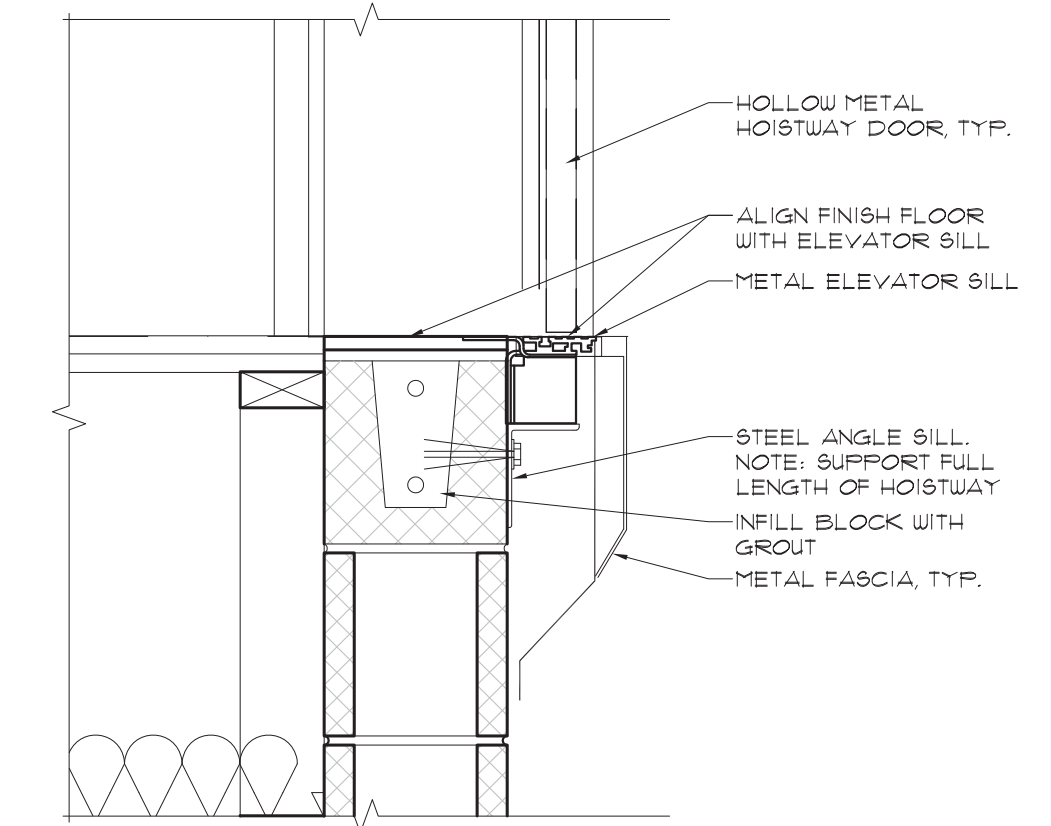
**ELEVATOR PIT PLAN** SECTION 1 1/4" = 1'-0"



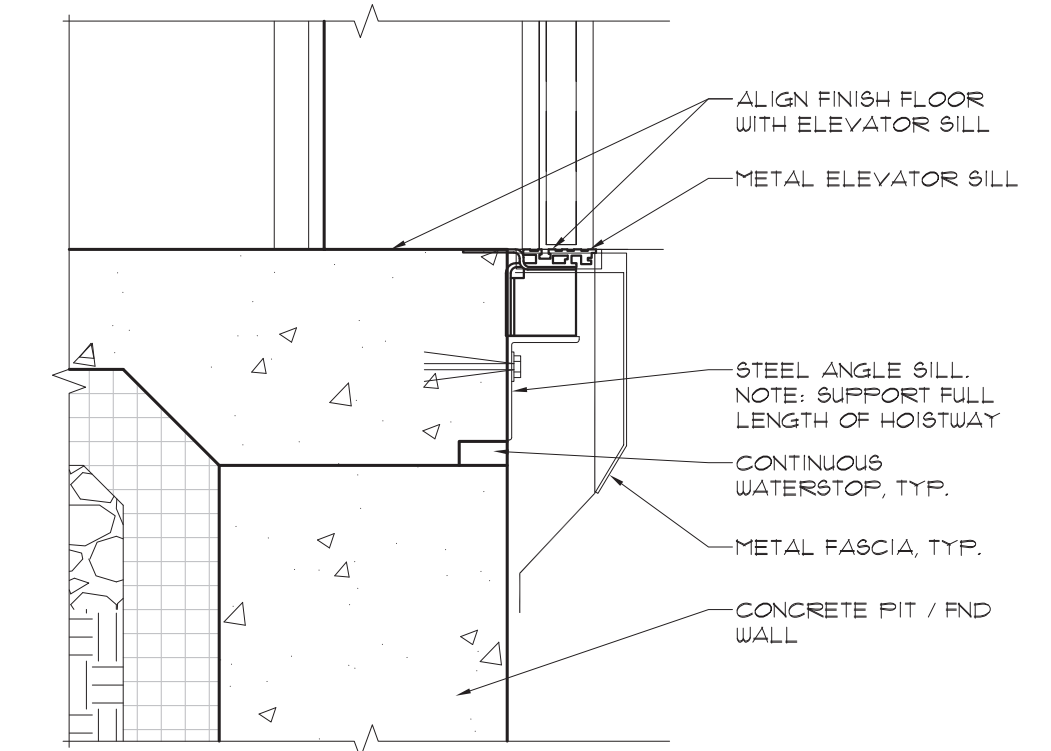
**ELEVATOR SECTION BUILDING E** SECTION 4 1/4" = 1'-0"



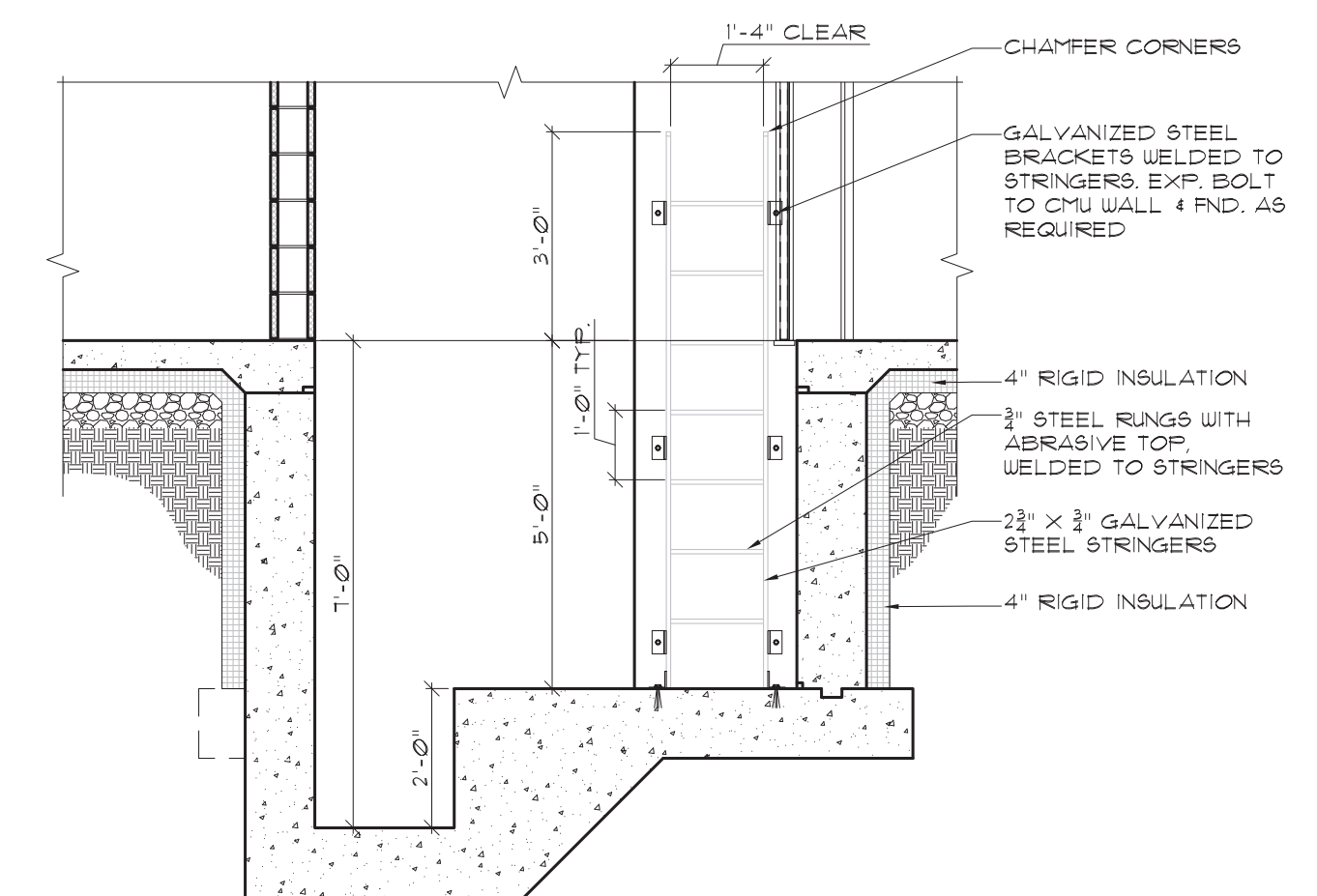
**SECTION DETAIL 5** 1-1/2" = 1'-0"



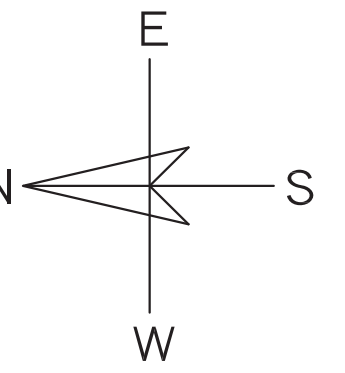
**SECTION DETAIL 6** 1-1/2" = 1'-0"



**SECTION DETAIL 7** 1-1/2" = 1'-0"



**LADDER / PIT SECTION** SECTION 8 1-1/2" = 1'-0"



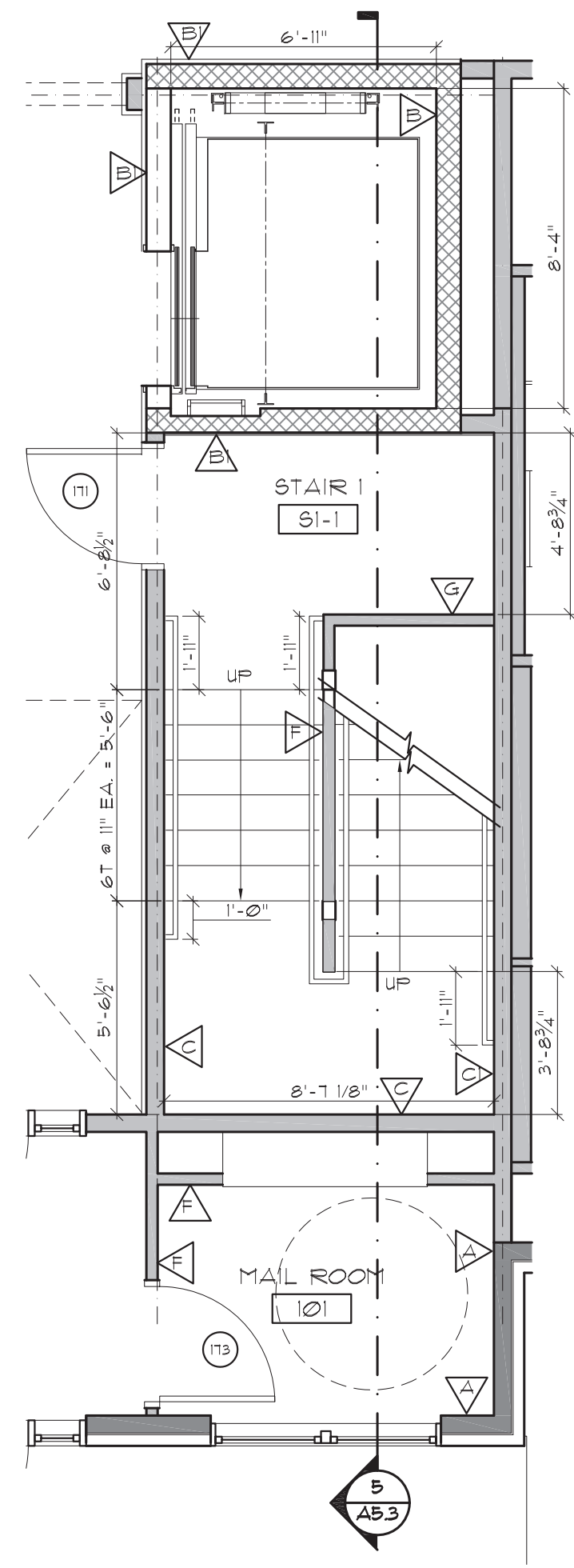
**SHEET CONTENTS:**  
Building E: Enlarged  
Elevator Plans and  
Section

PROJECT # 1420

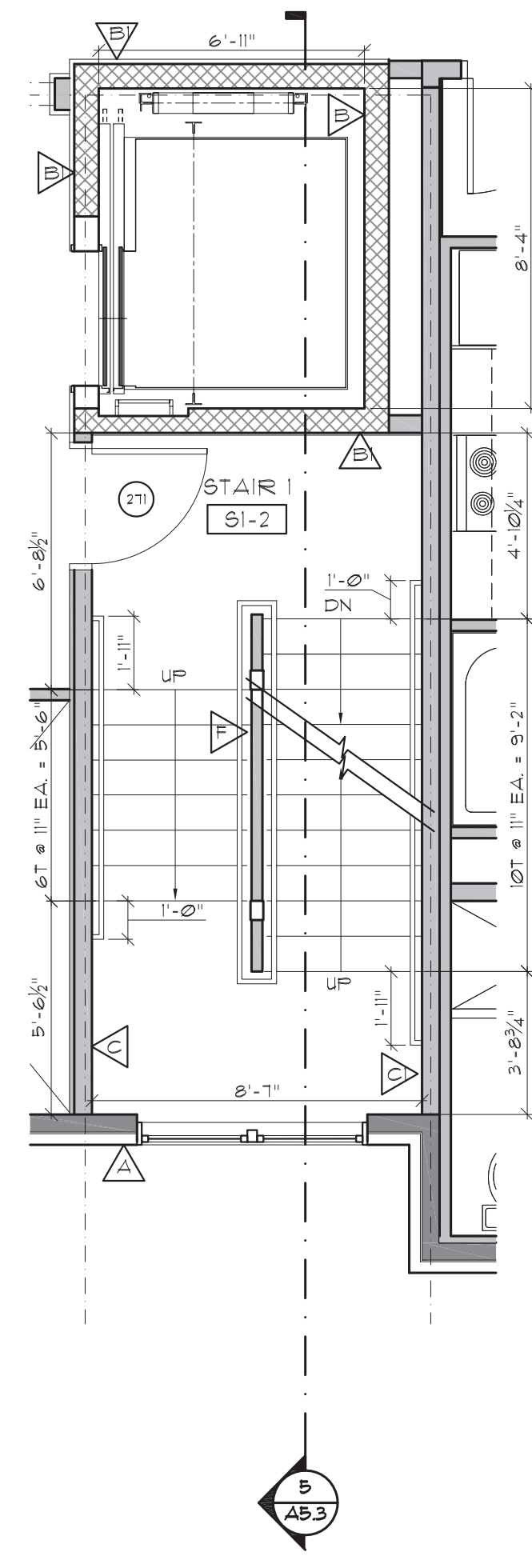
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REVIS: 02/16/2021

**A5.2**

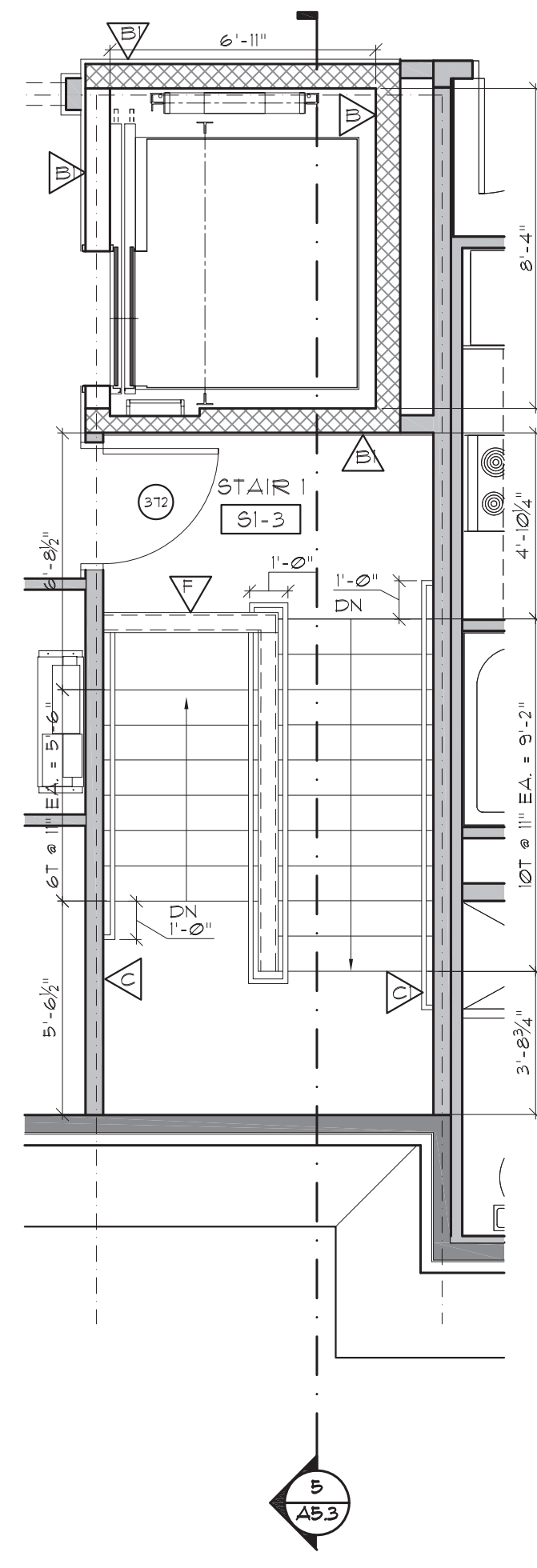
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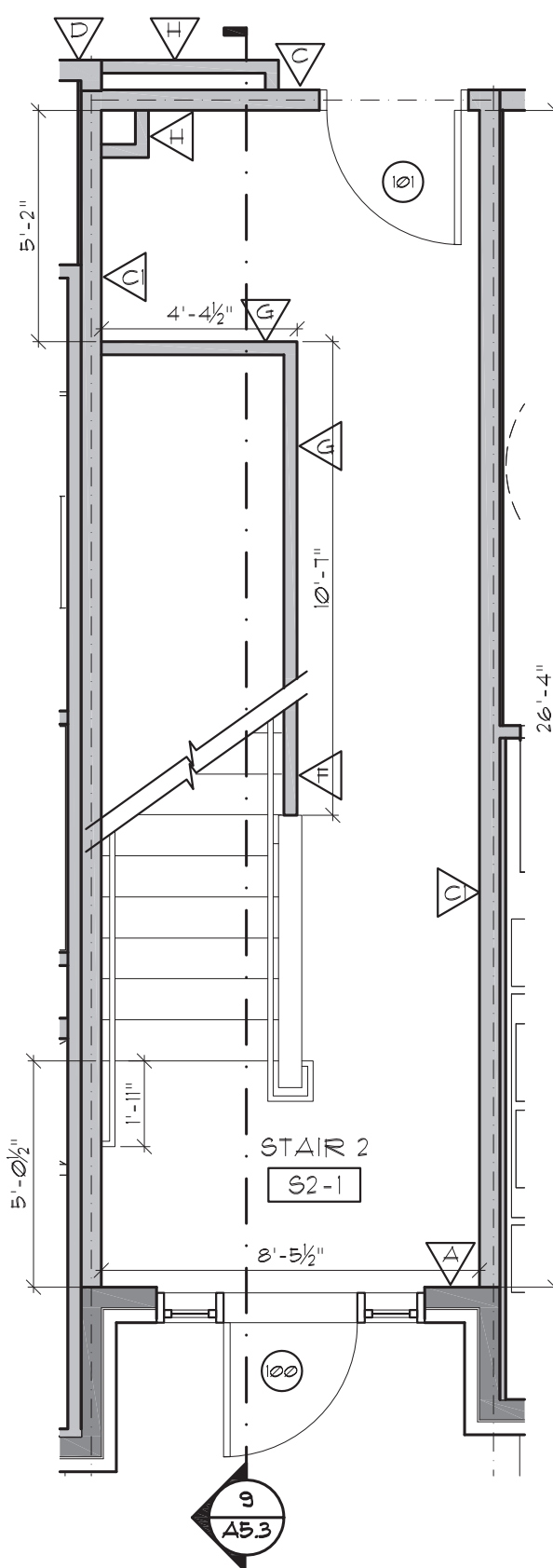
**FIRST FLOOR PLAN** STAIR 1 (2) 1/4" = 1'-0"  
BUILDING F



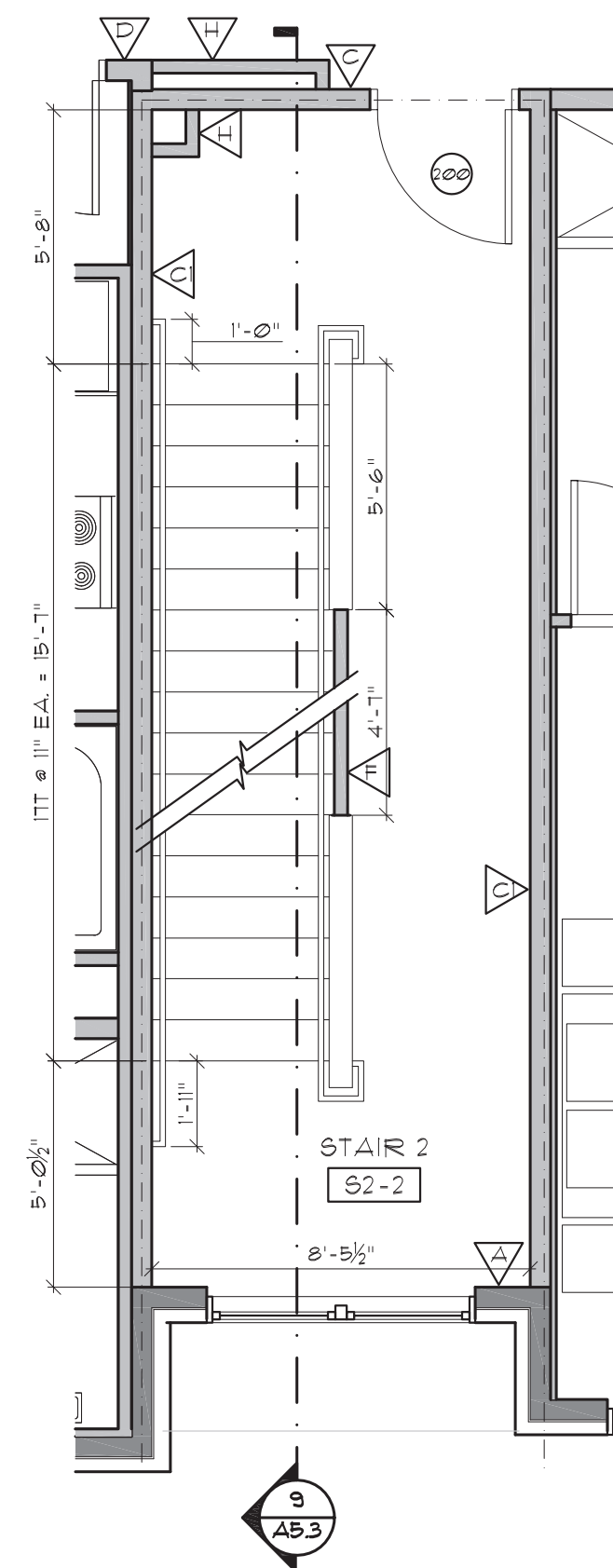
**SECOND FLOOR PLAN** STAIR 1 (3) 1/4" = 1'-0"  
BUILDING F



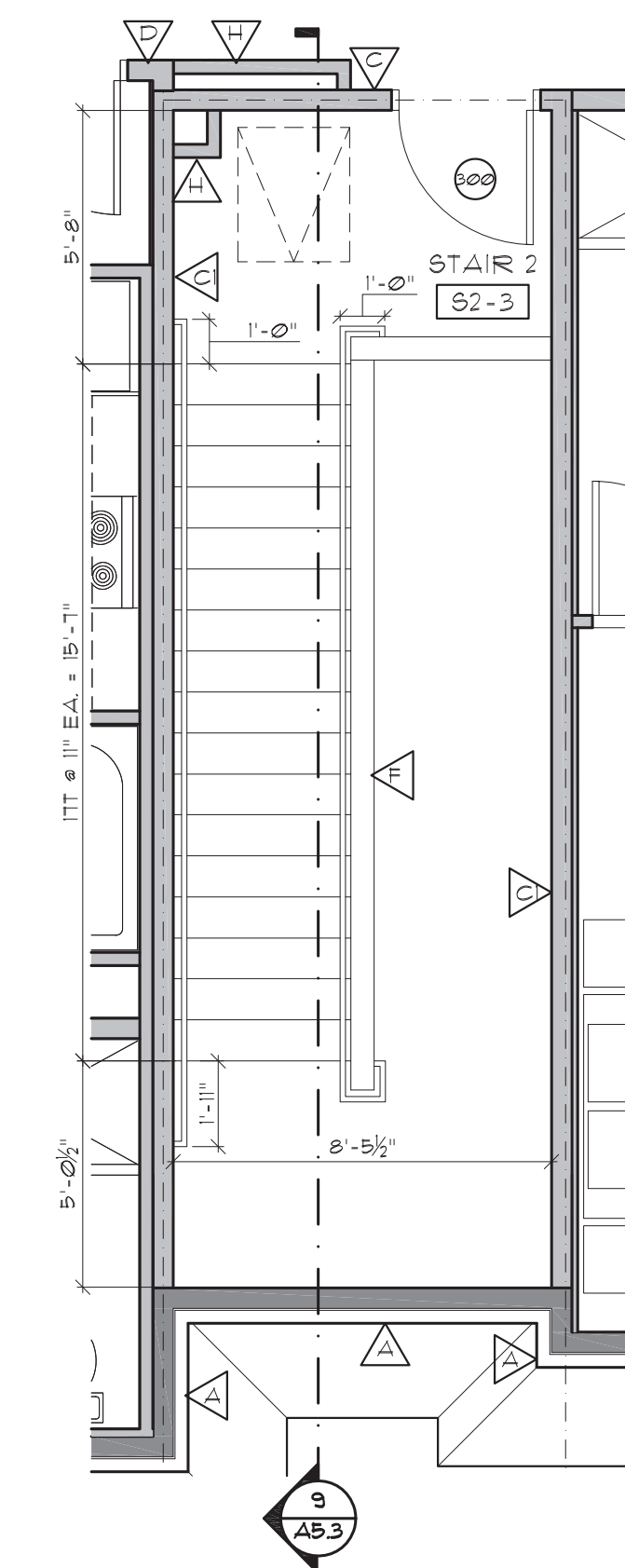
**THIRD FLOOR PLAN** STAIR 1 (4) 1/4" = 1'-0"  
BUILDING F



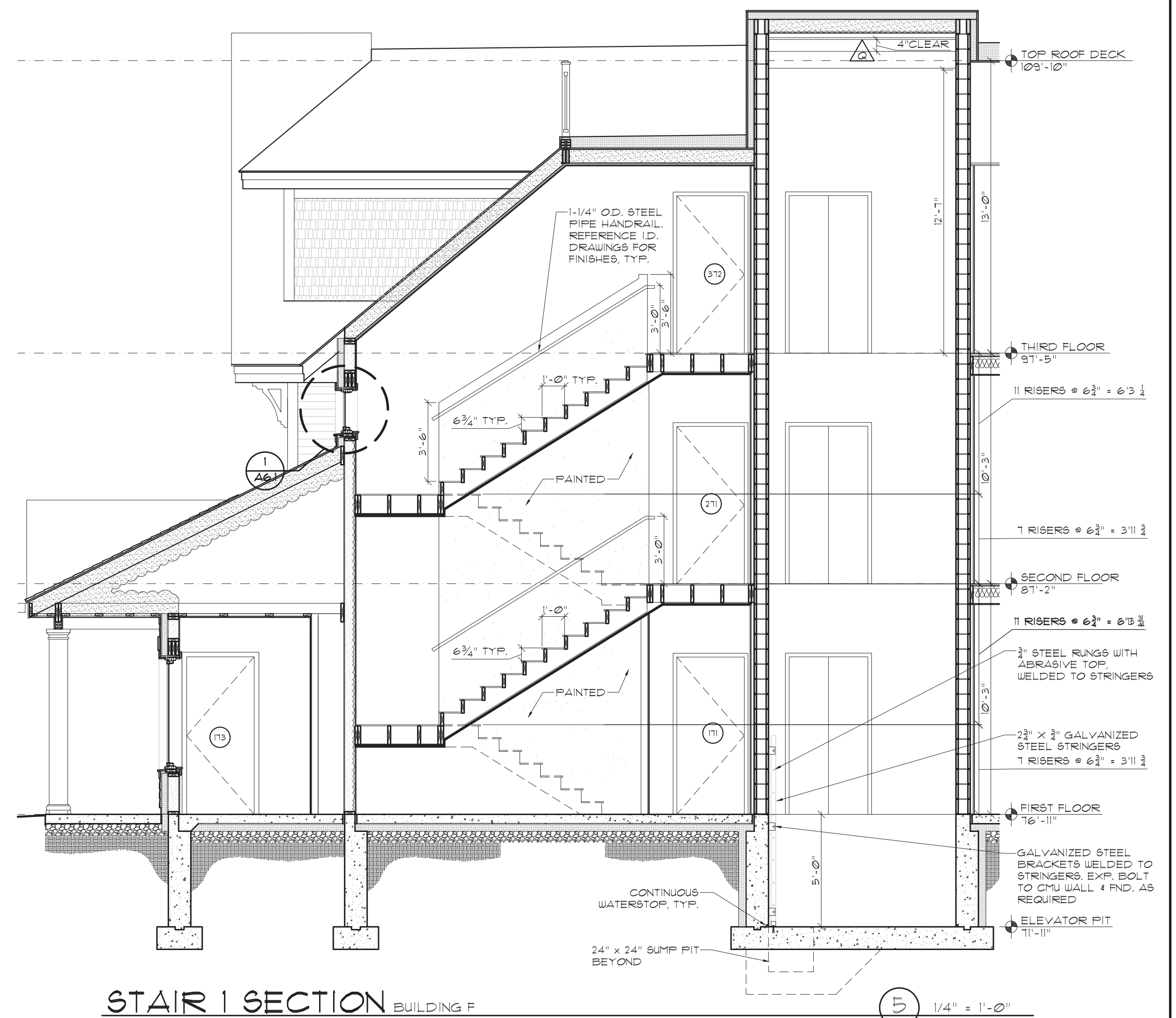
**FIRST FLOOR PLAN** STAIR 2 (6) 1/4" = 1'-0"  
BUILDING F



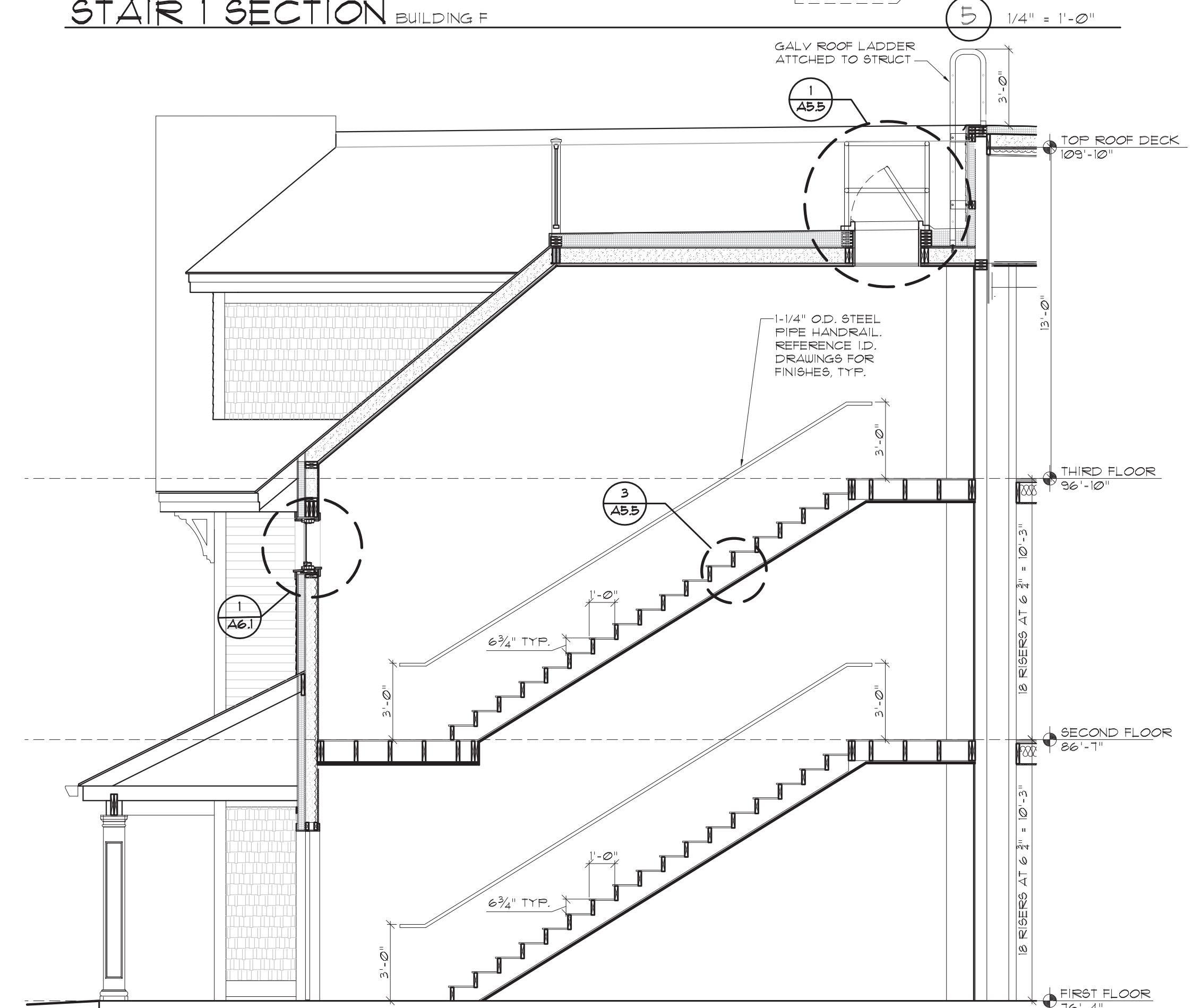
**SECOND FLOOR PLAN** STAIR 2 (7) 1/4" = 1'-0"  
BUILDING F



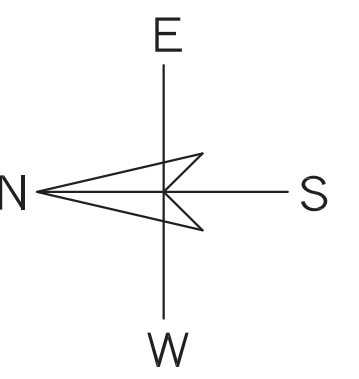
**THIRD FLOOR PLAN** STAIR 2 (8) 1/4" = 1'-0"  
BUILDING F



**STAIR 1 SECTION** BUILDING F



**STAIR 2 SECTION** BUILDING F



**SHEET CONTENTS:**

Building F: Enlarged  
Stair Plans and Sections

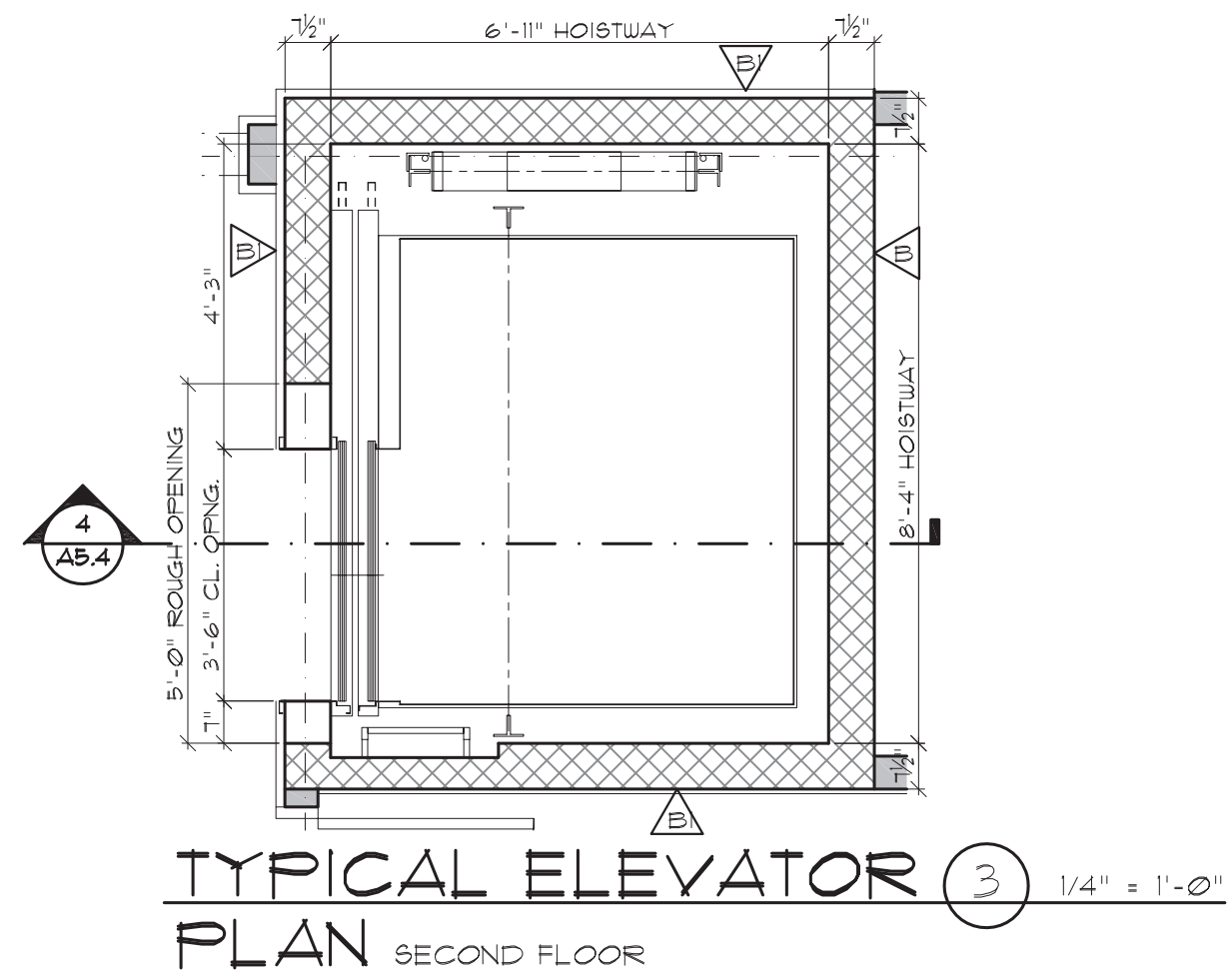
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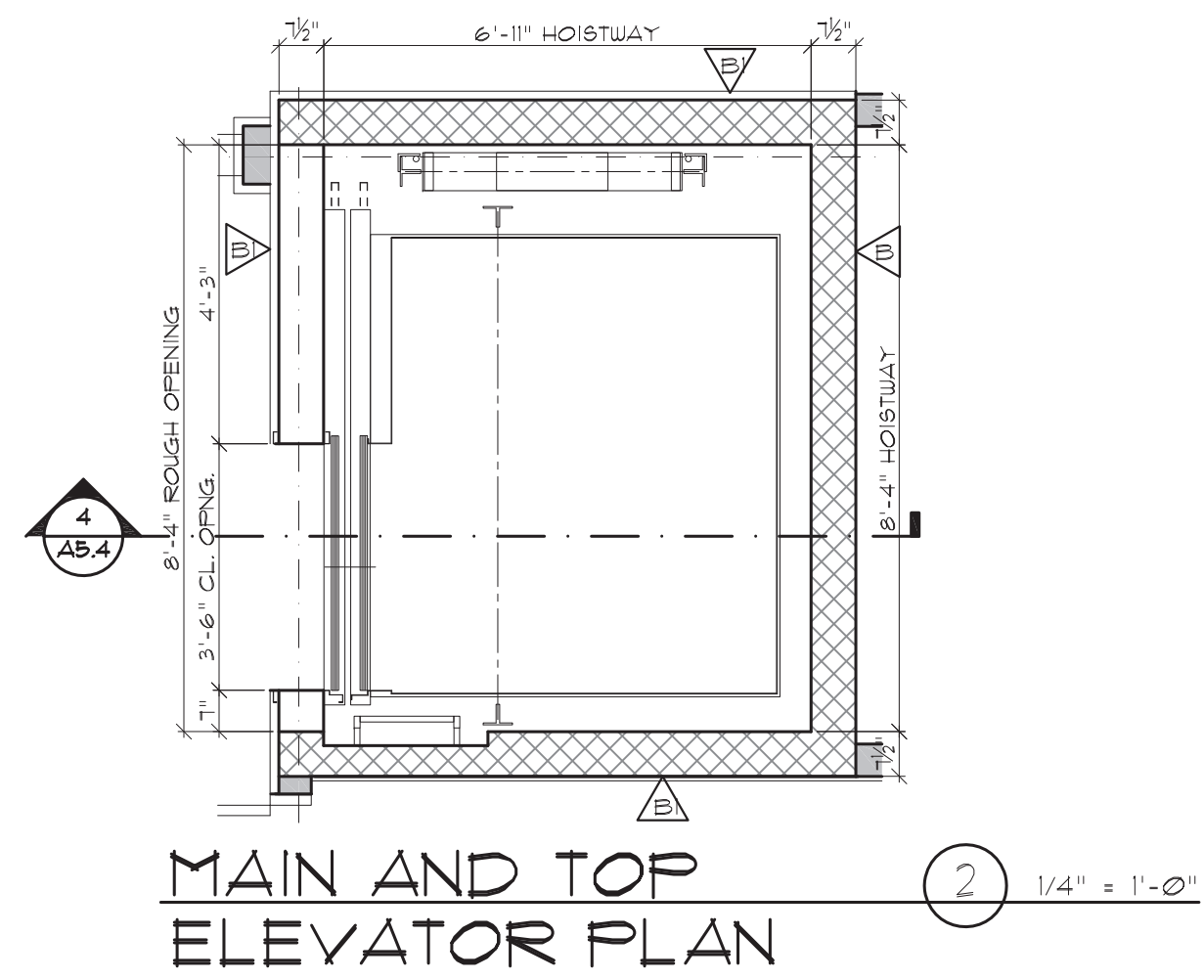
REVISED DATE:

REVIS: 02/16/2021

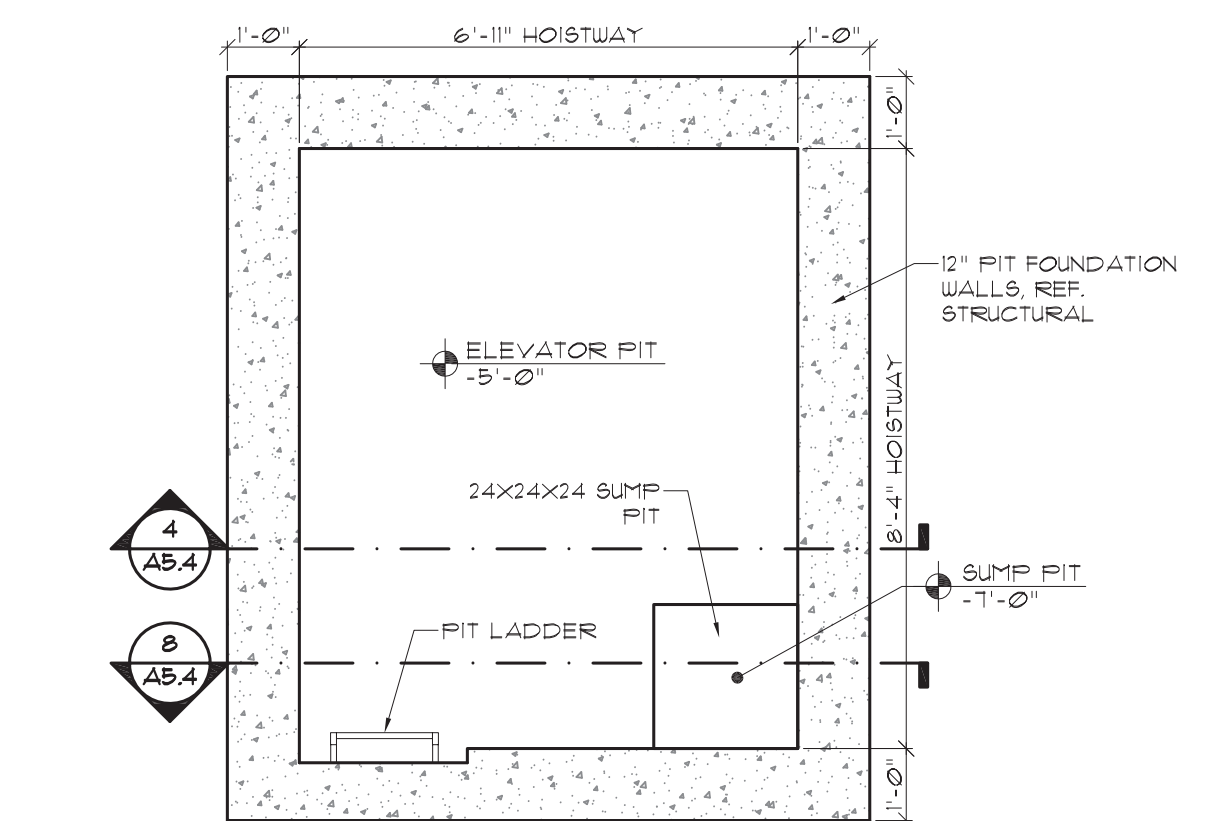
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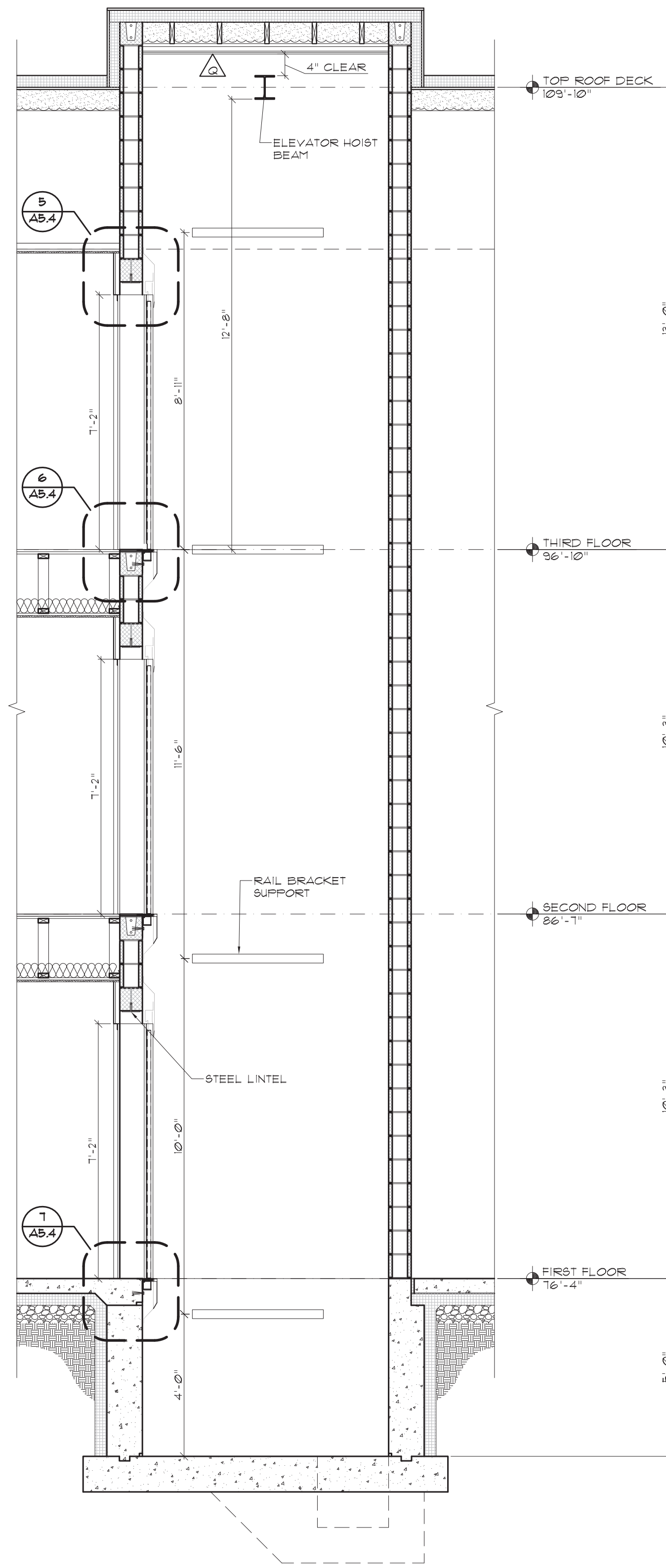
TYPICAL ELEVATOR PLAN SECOND FLOOR (3) 1/4" = 1'-0"



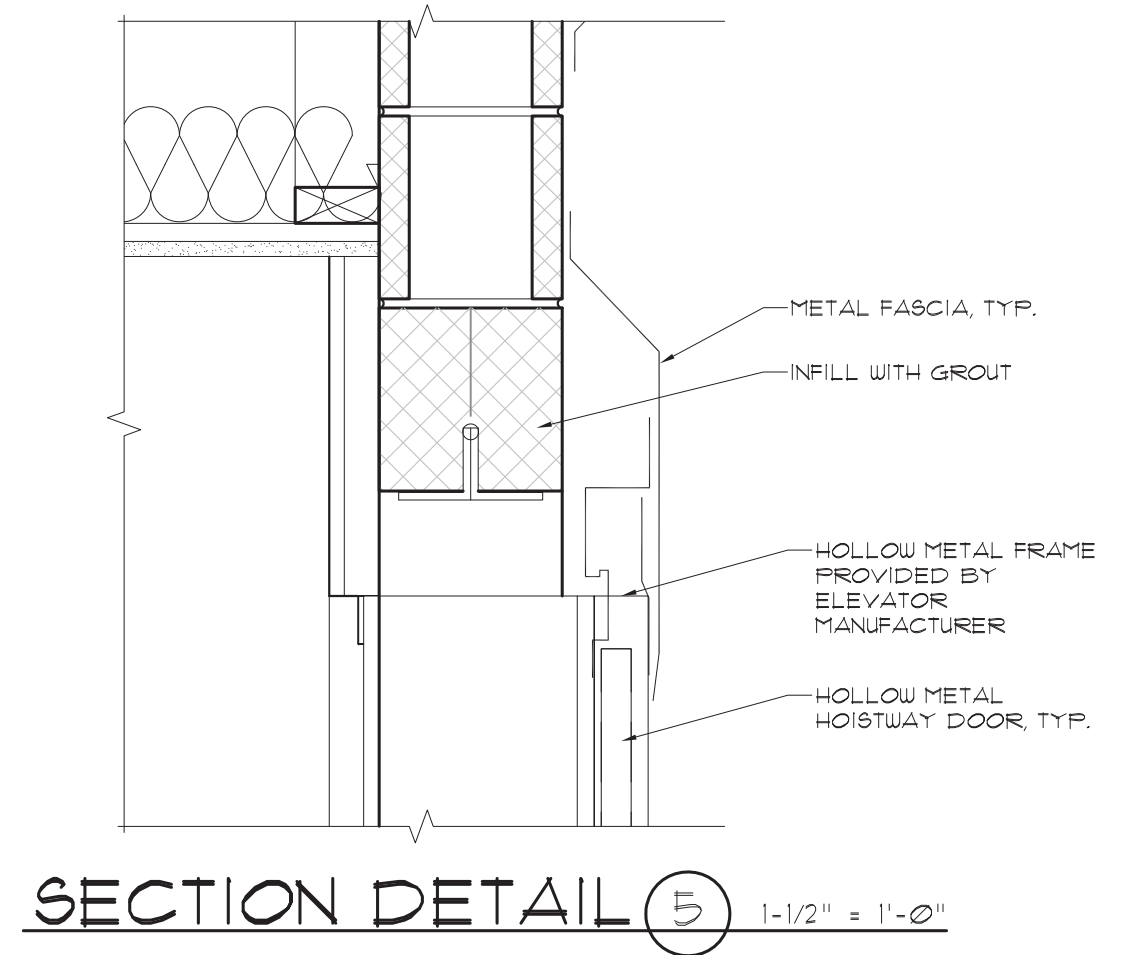
MAIN AND TOP ELEVATOR PLAN (2) 1/4" = 1'-0"



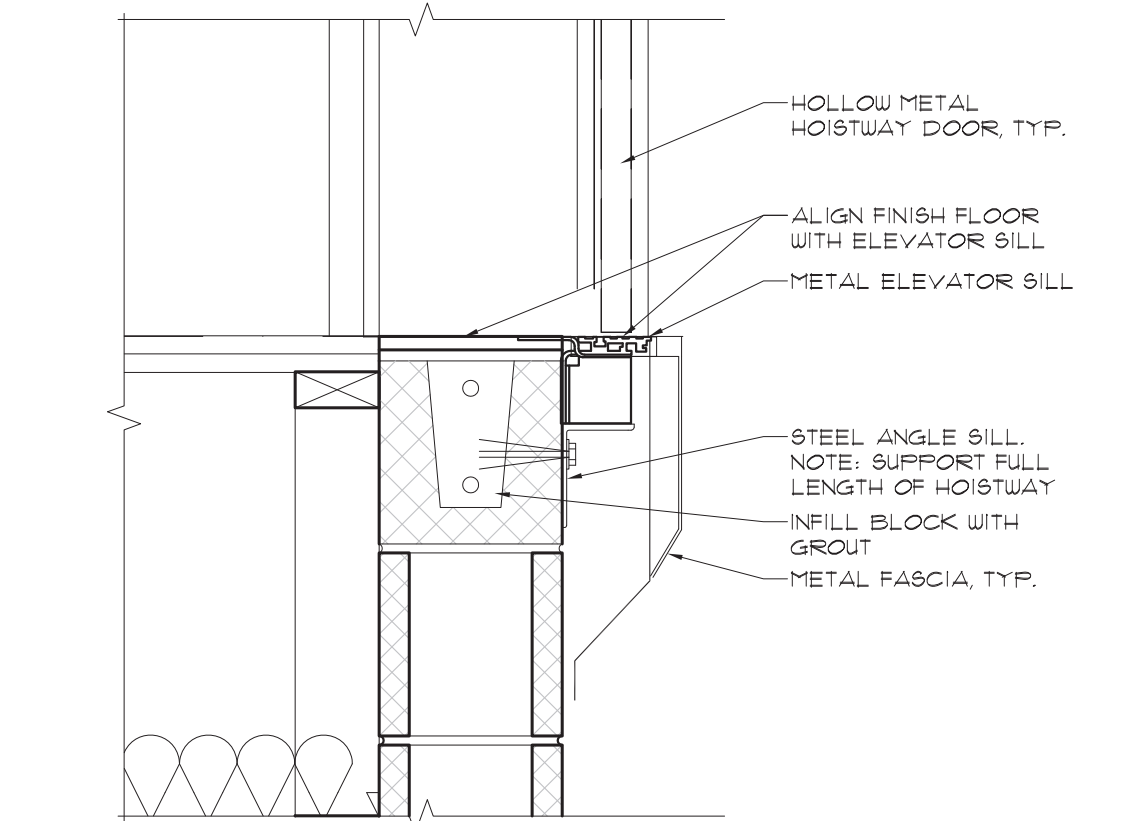
ELEVATOR PIT PLAN (1) 1/4" = 1'-0"



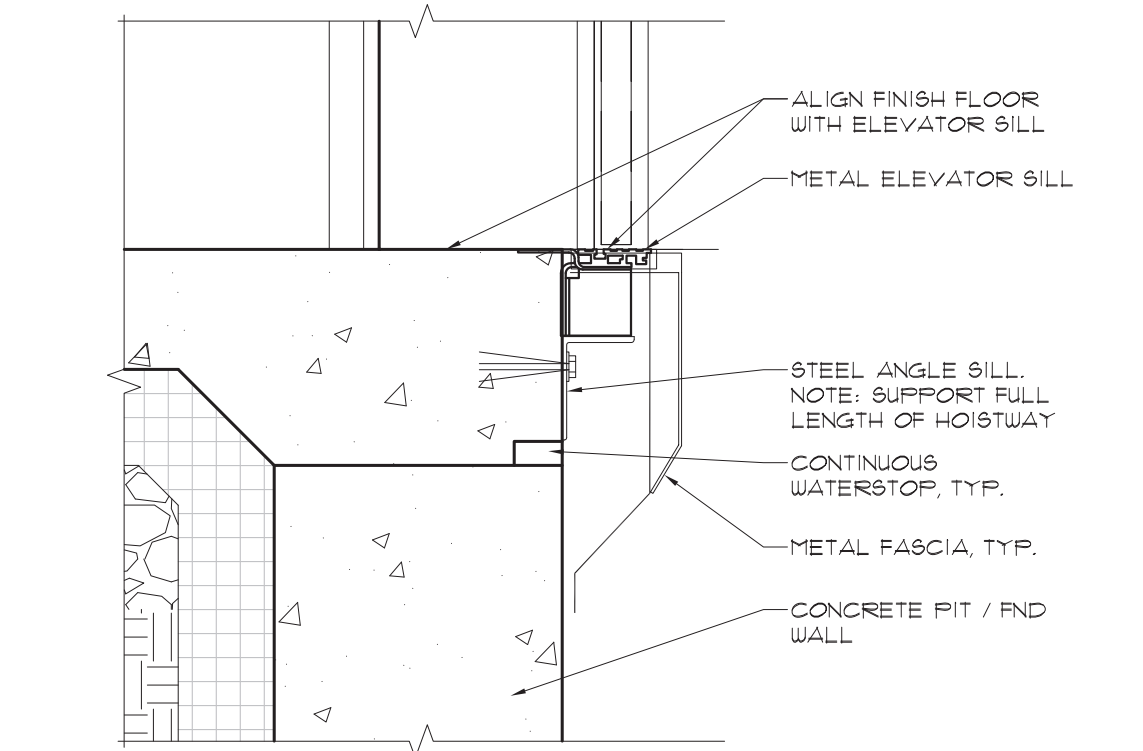
ELEVATOR SECTION BUILDING F (4) 1/4" = 1'-0"



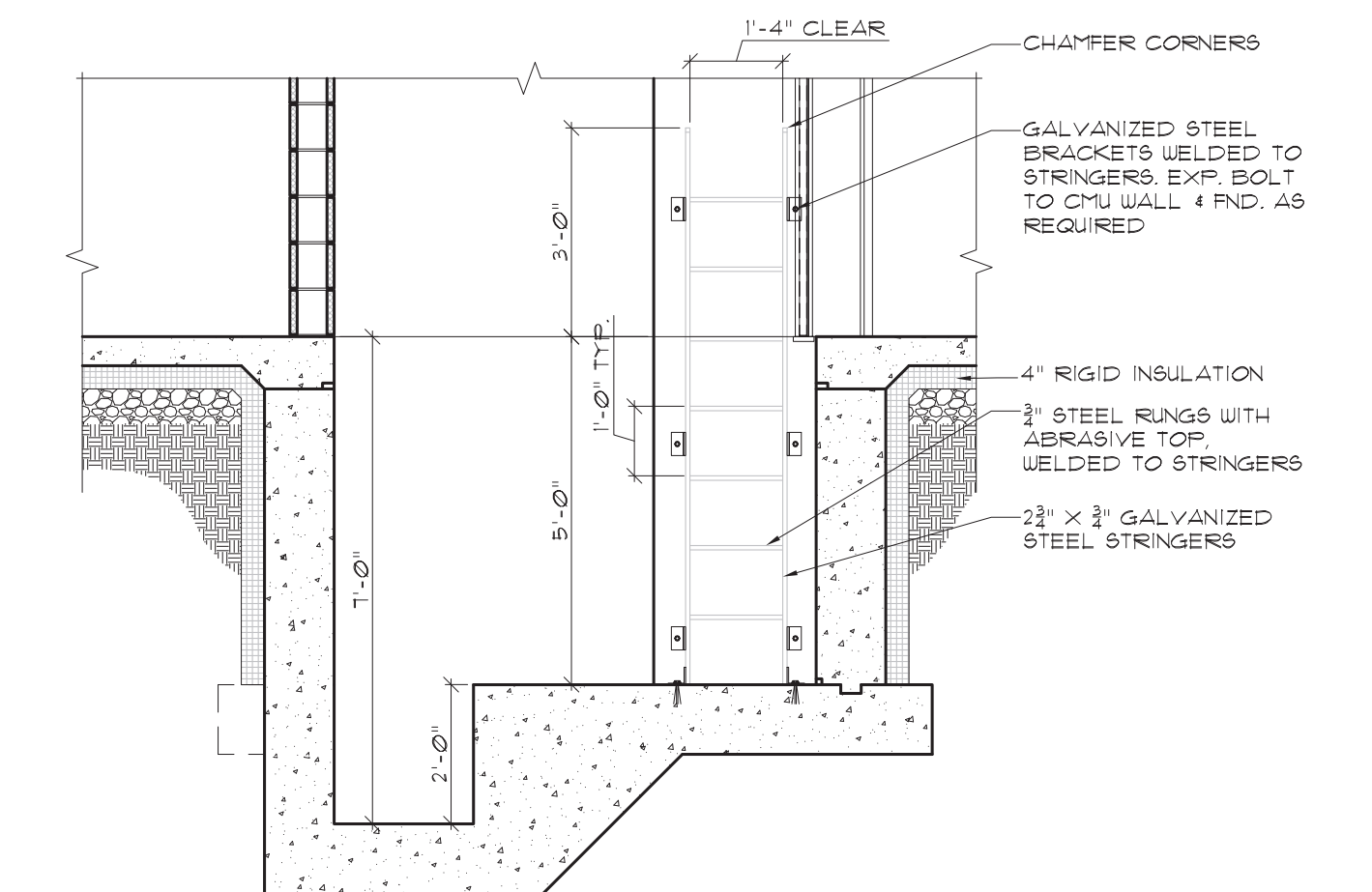
SECTION DETAIL (5) 1-1/2" = 1'-0"



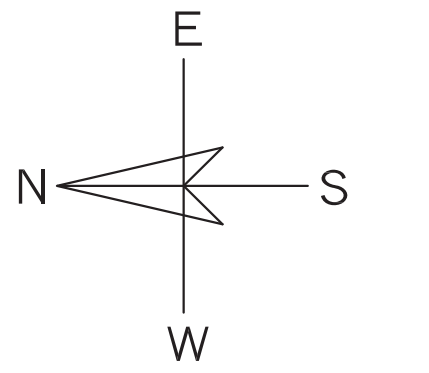
SECTION DETAIL (6) 1-1/2" = 1'-0"



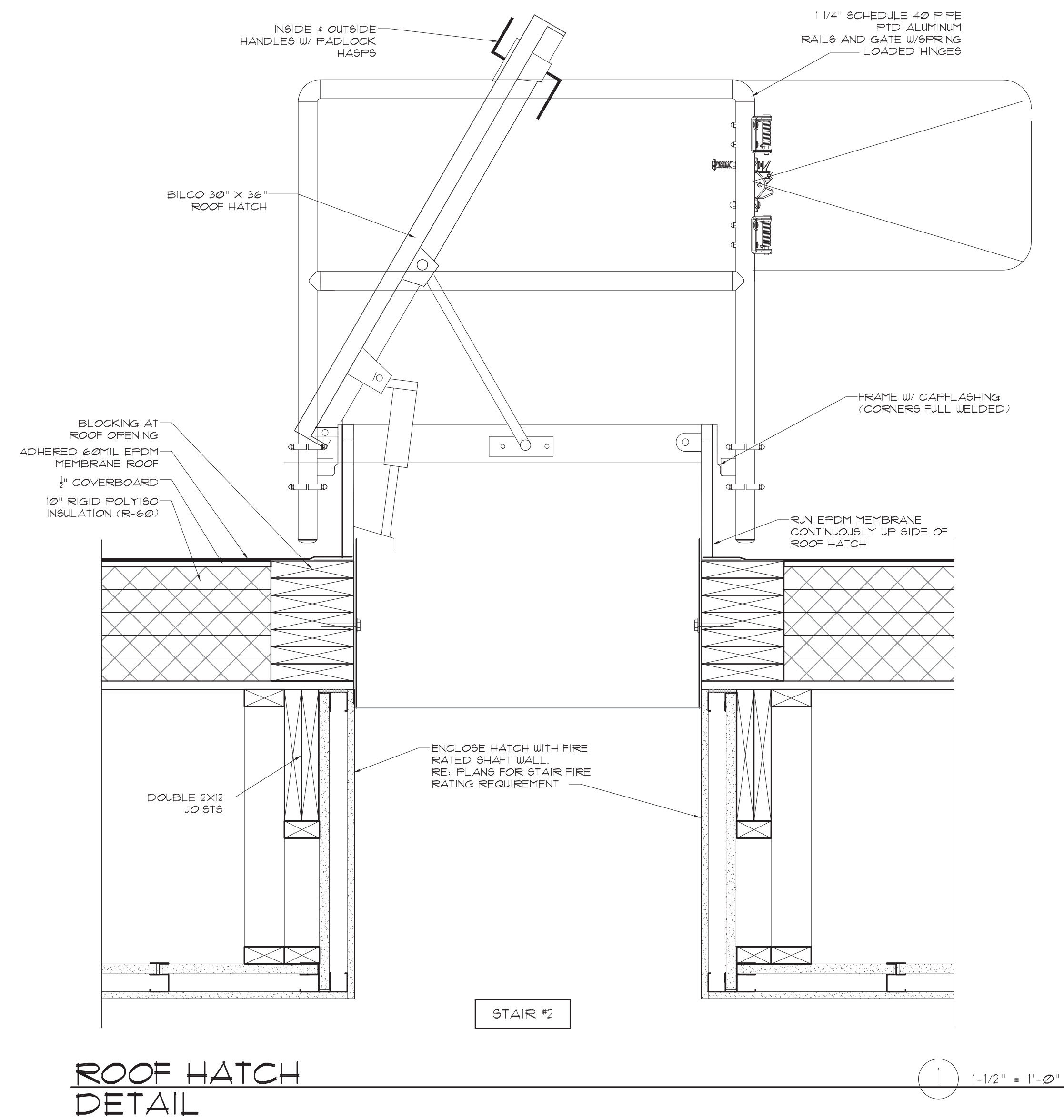
SECTION DETAIL (7) 1-1/2" = 1'-0"



LADDER / PIT SECTION (8) 1-1/2" = 1'-0"

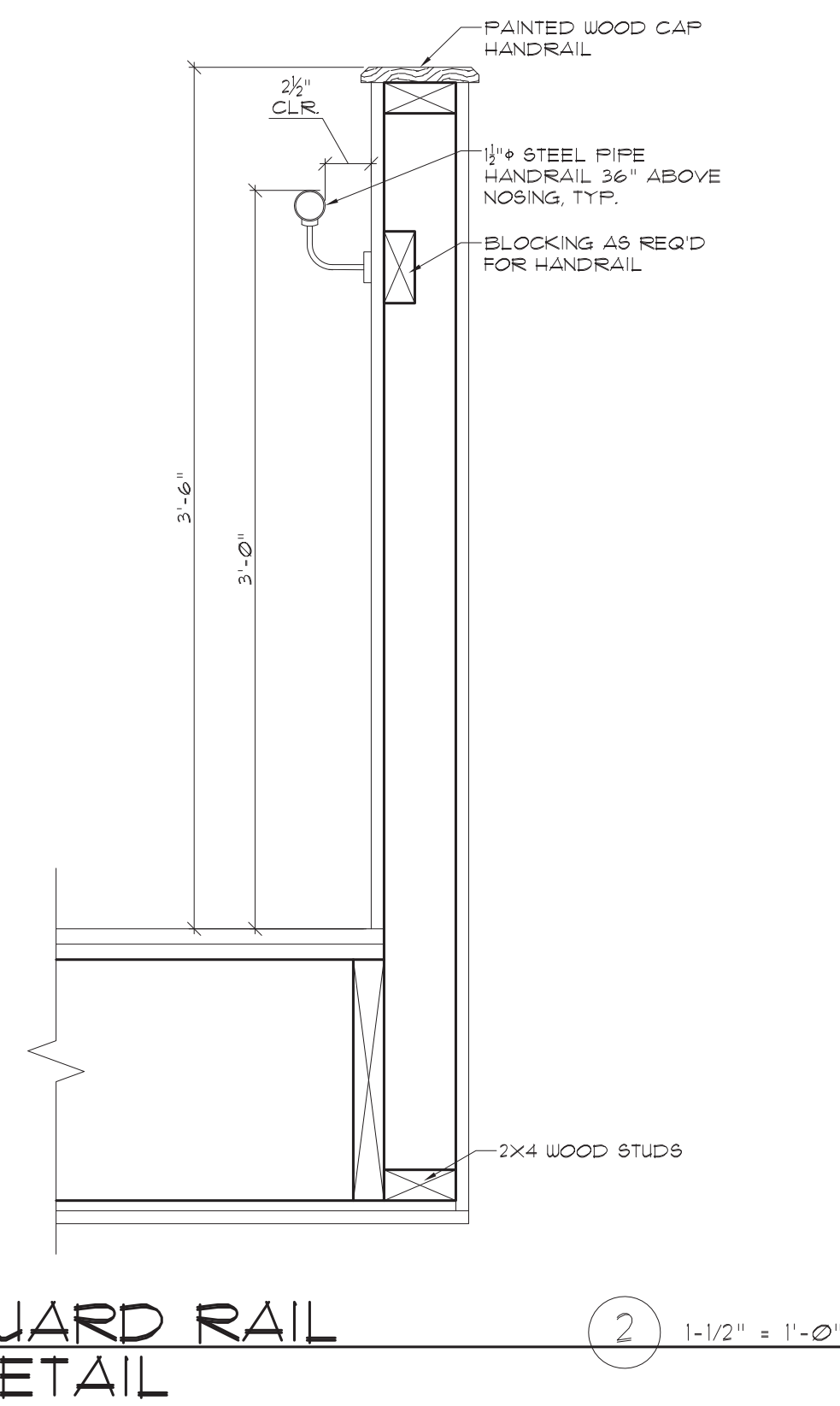


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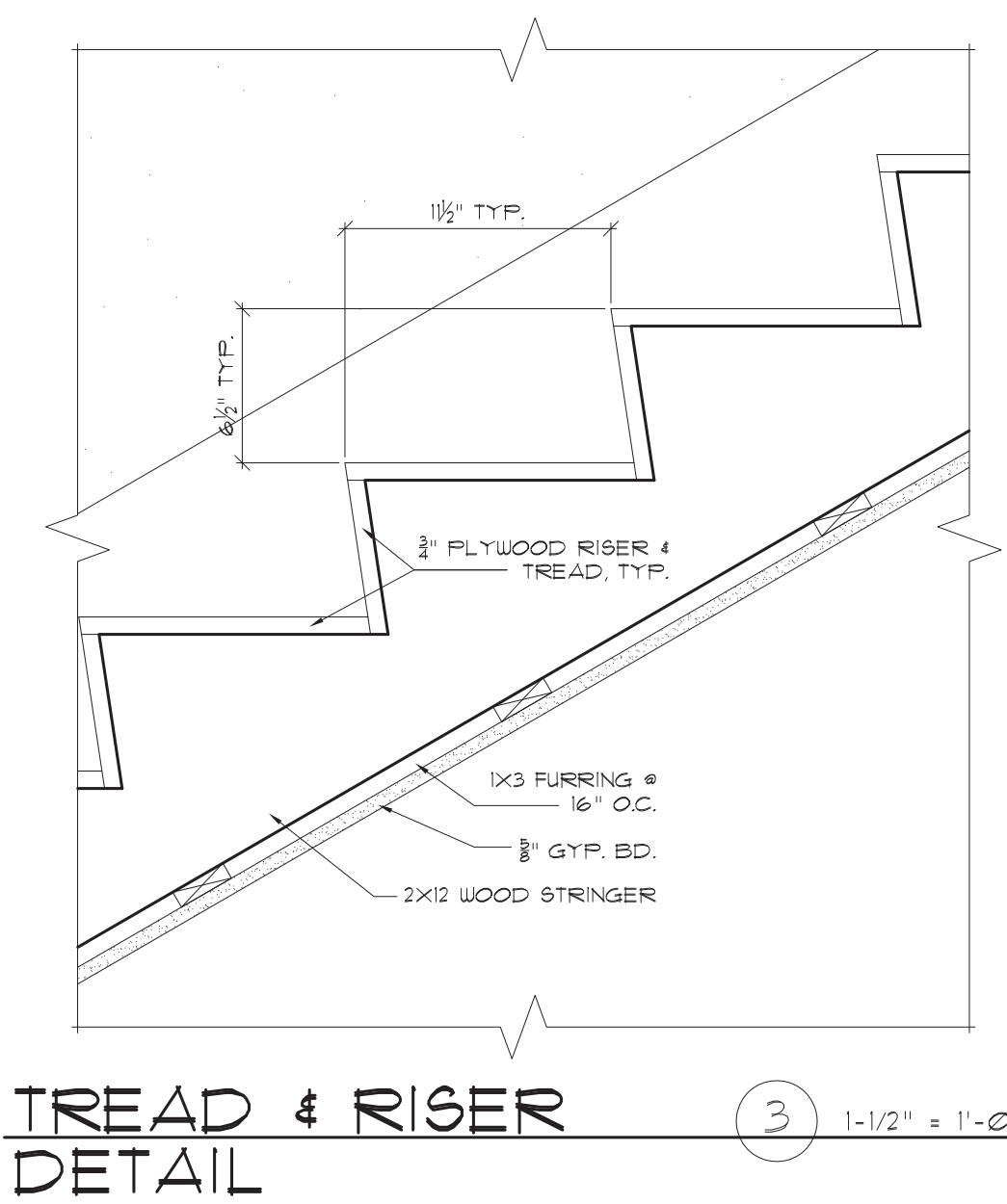
ROOF HATCH  
DETAIL

1 1-1/2" = 1'-0"



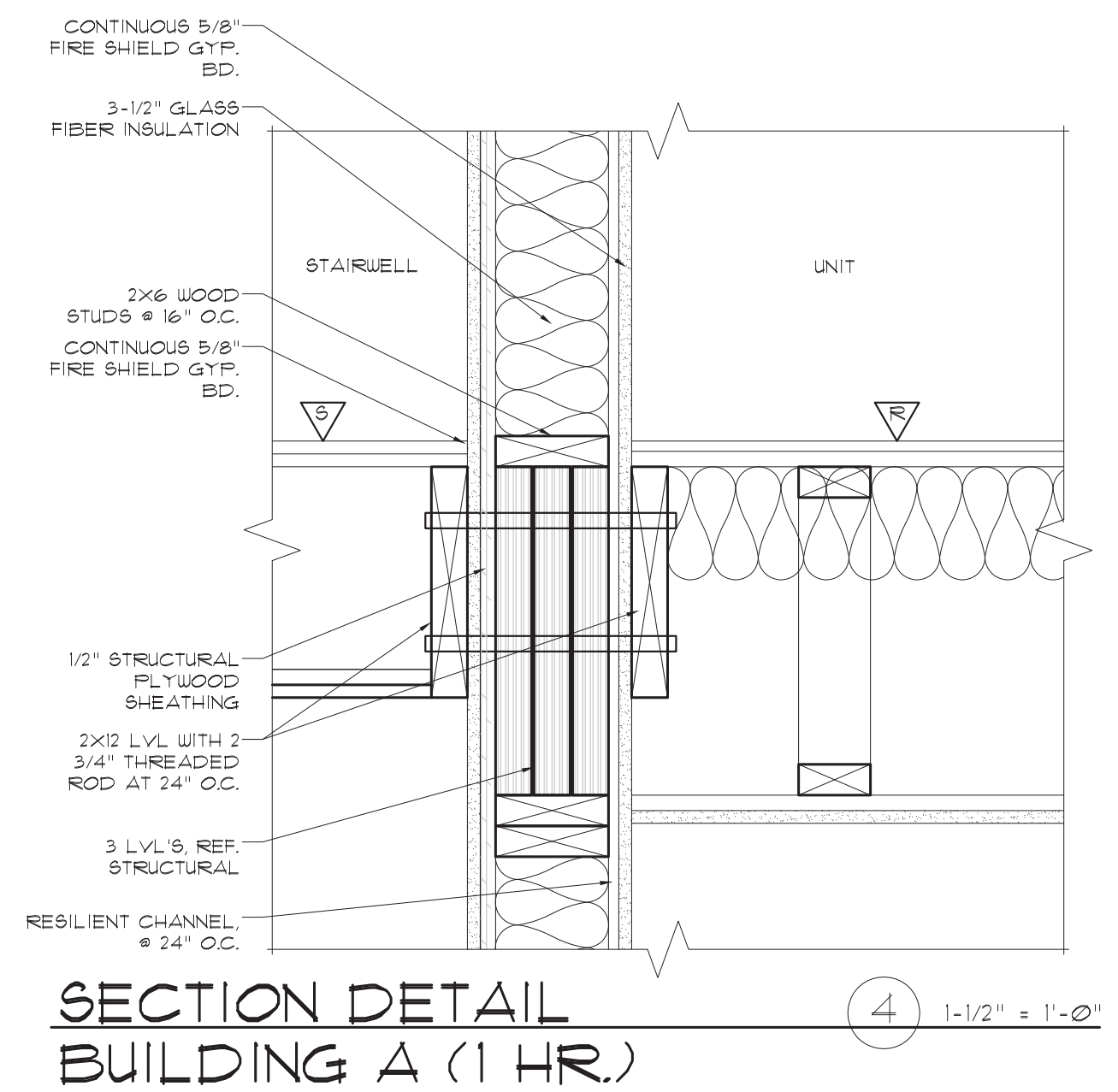
GUARD RAIL  
DETAIL

2 1-1/2" = 1'-0"



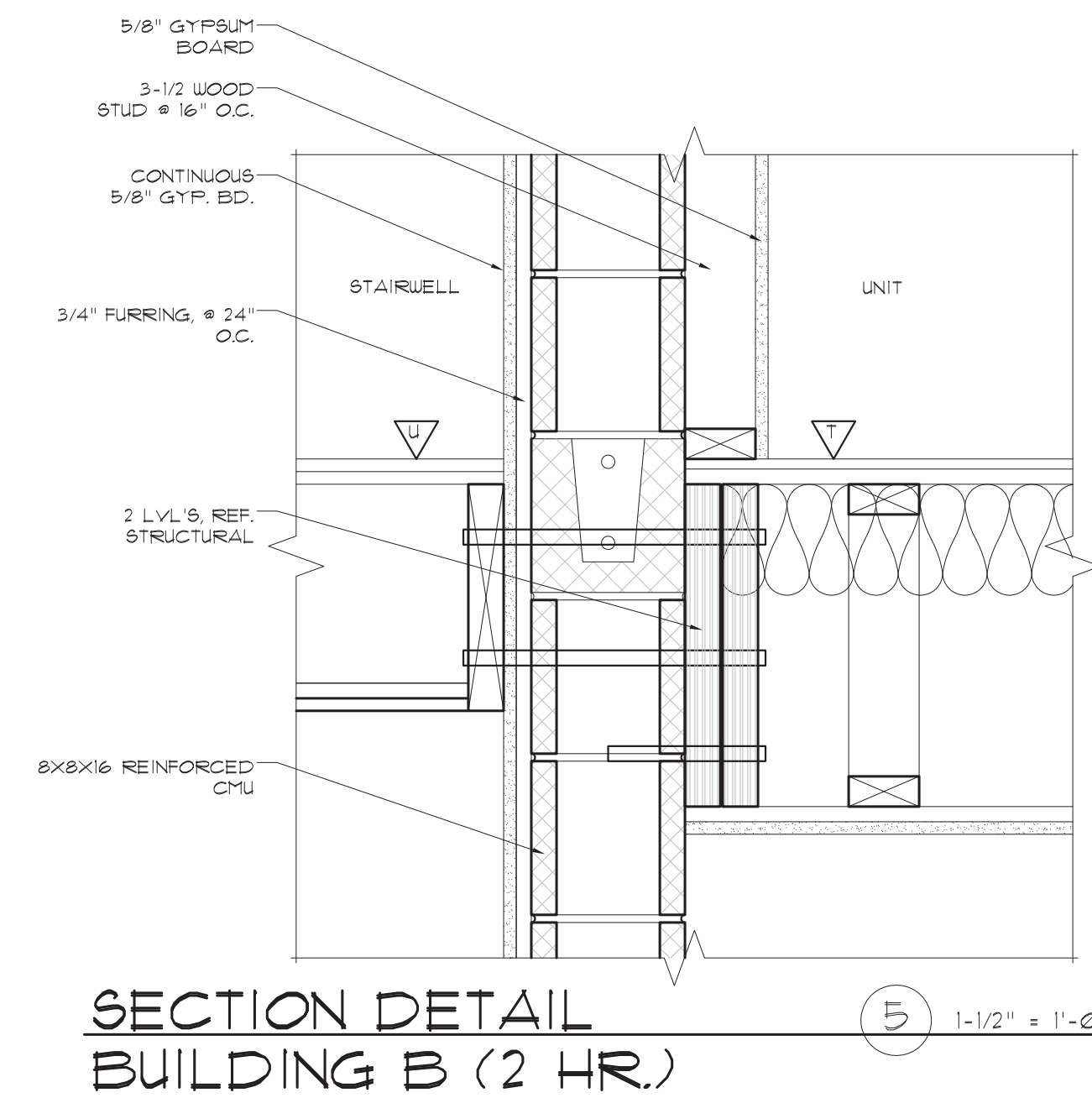
TREAD & RISER  
DETAIL

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



SECTION DETAIL  
BUILDING A (1 HR.)

4 1-1/2" = 1'-0"



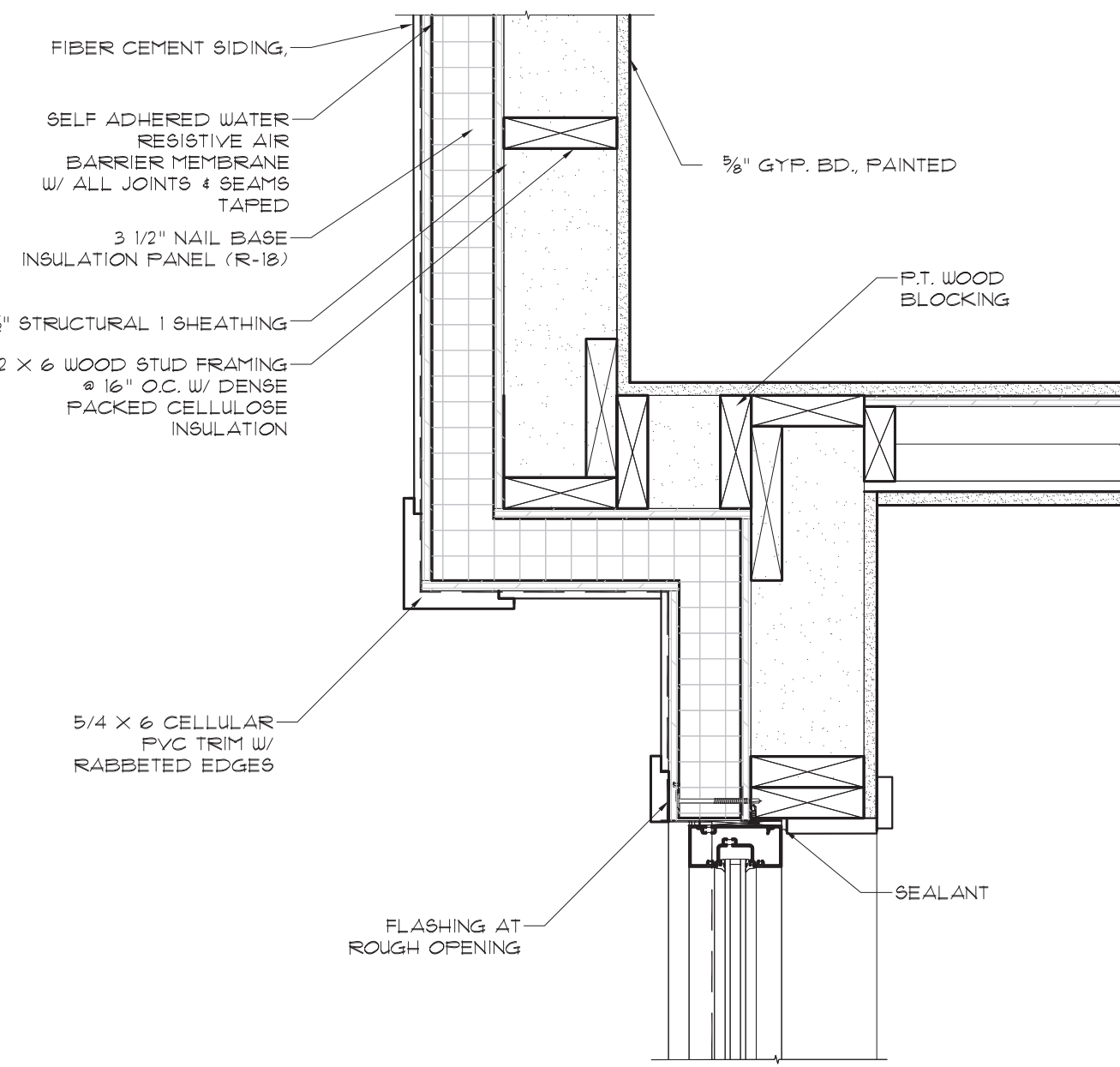
SECTION DETAIL  
BUILDING B (2 HR.)

5 1-1/2" = 1'-0"

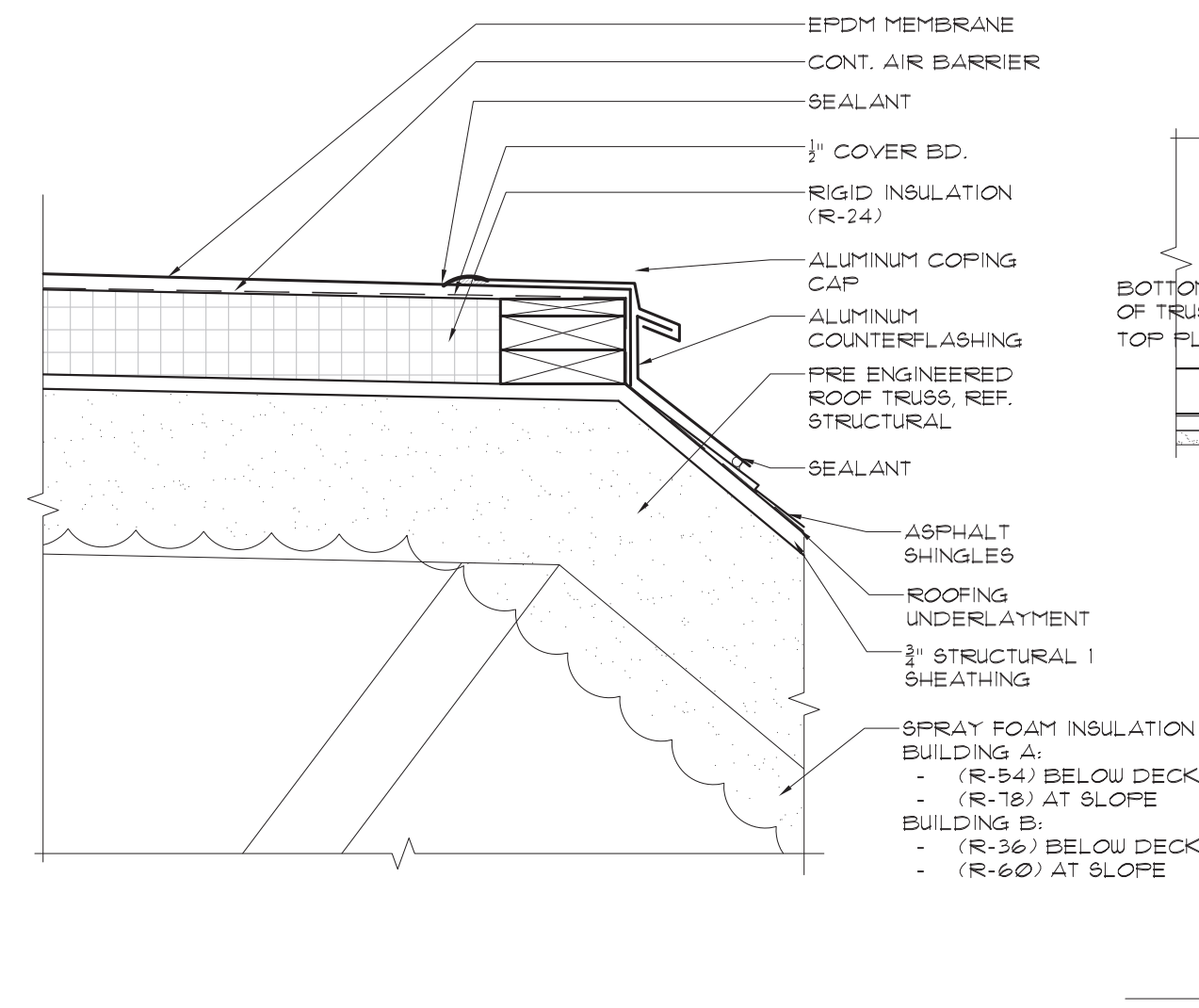


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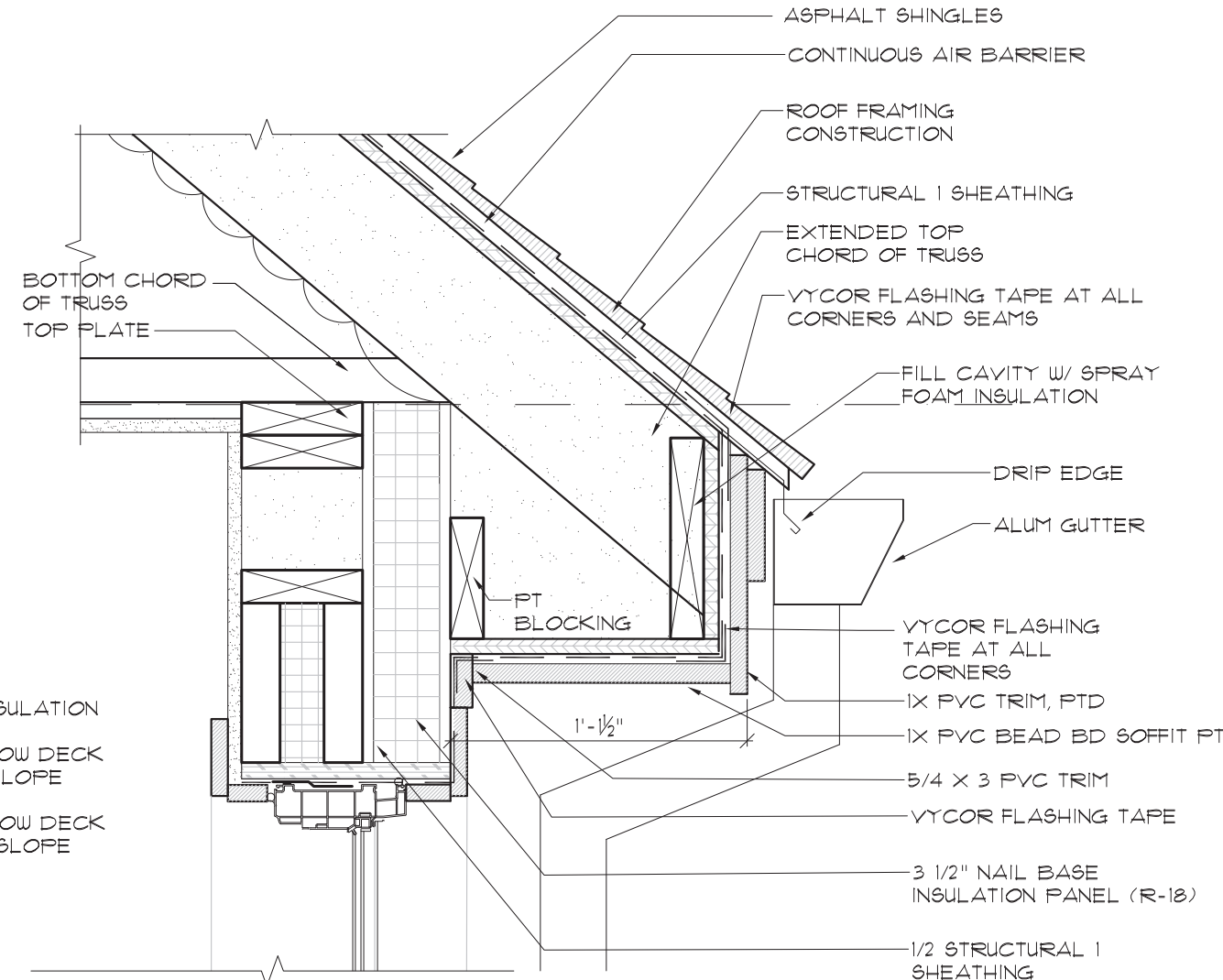




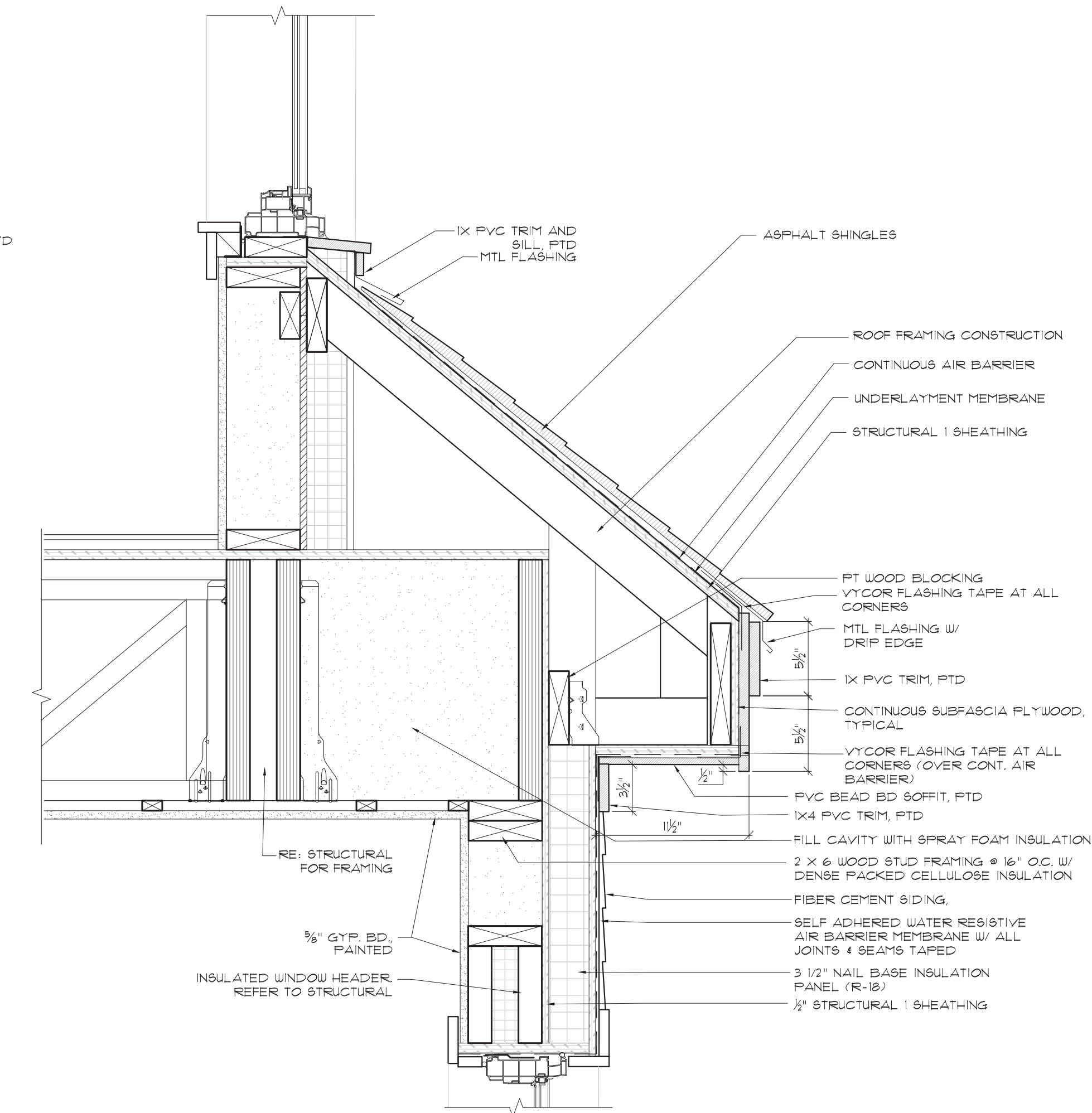
PLAN DETAIL 1 1/2" = 1'-0"



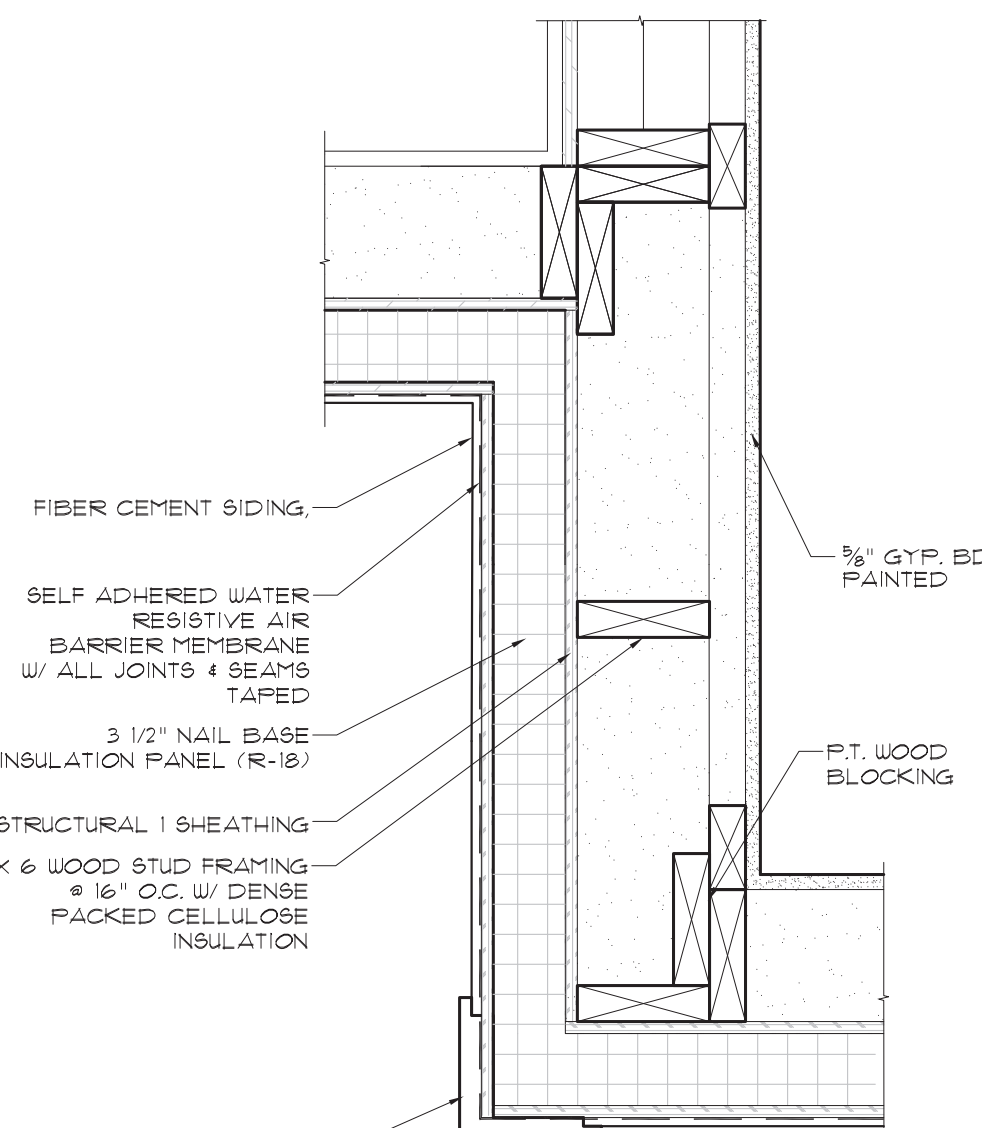
SECTION DETAIL 2 1/2" = 1'-0"



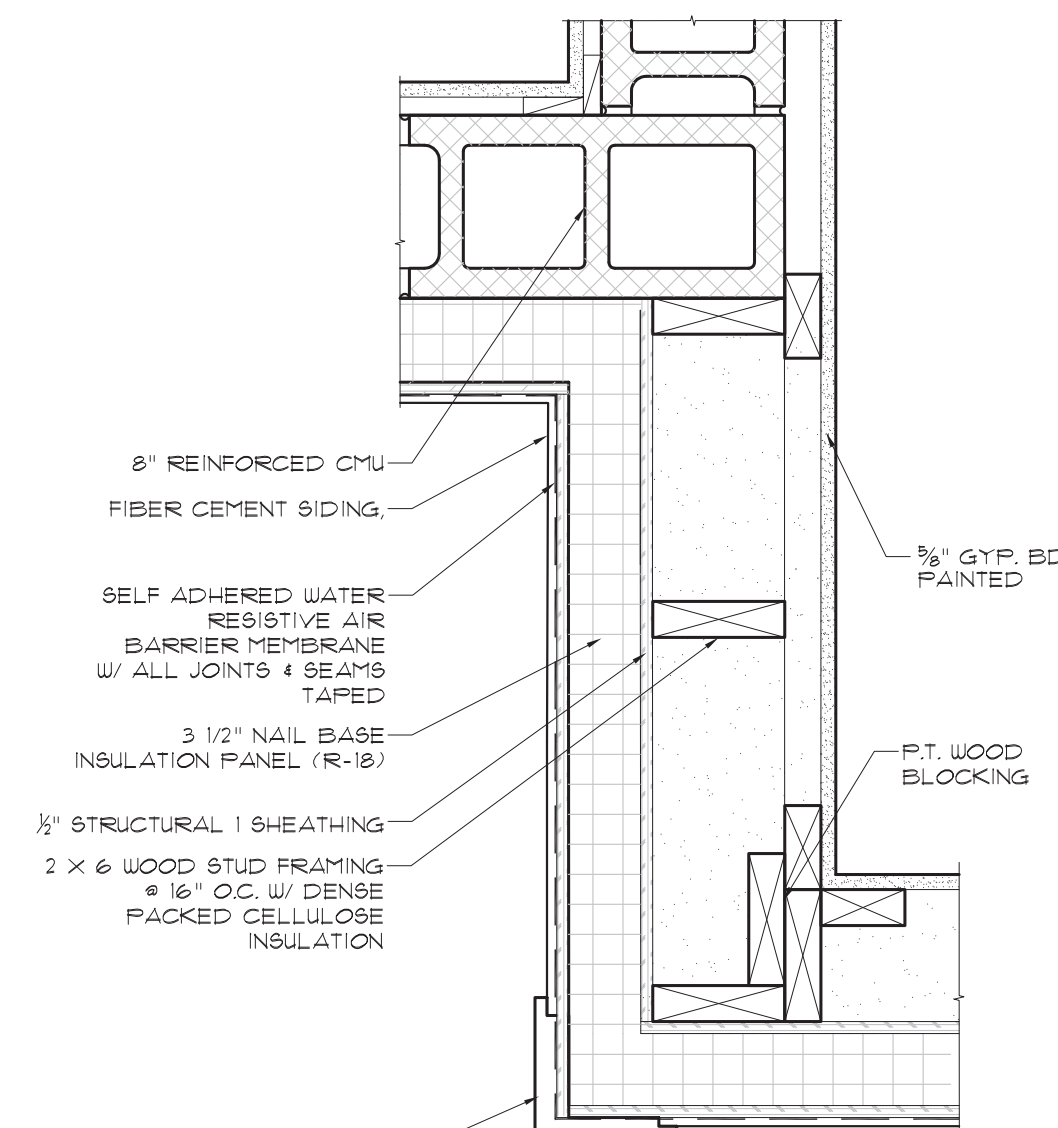
SECTION DETAIL 3 1/2" = 1'-0"



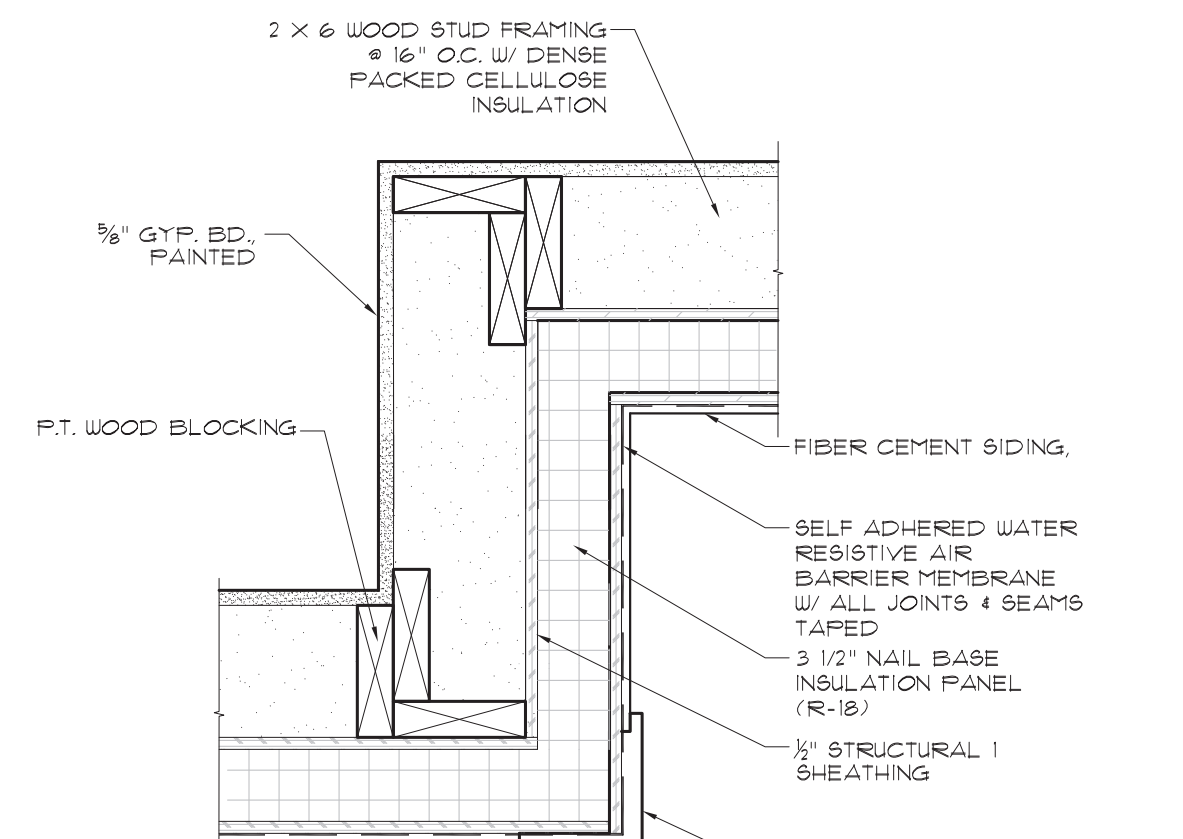
SECTION DETAIL 7 1/2" = 1'-0"



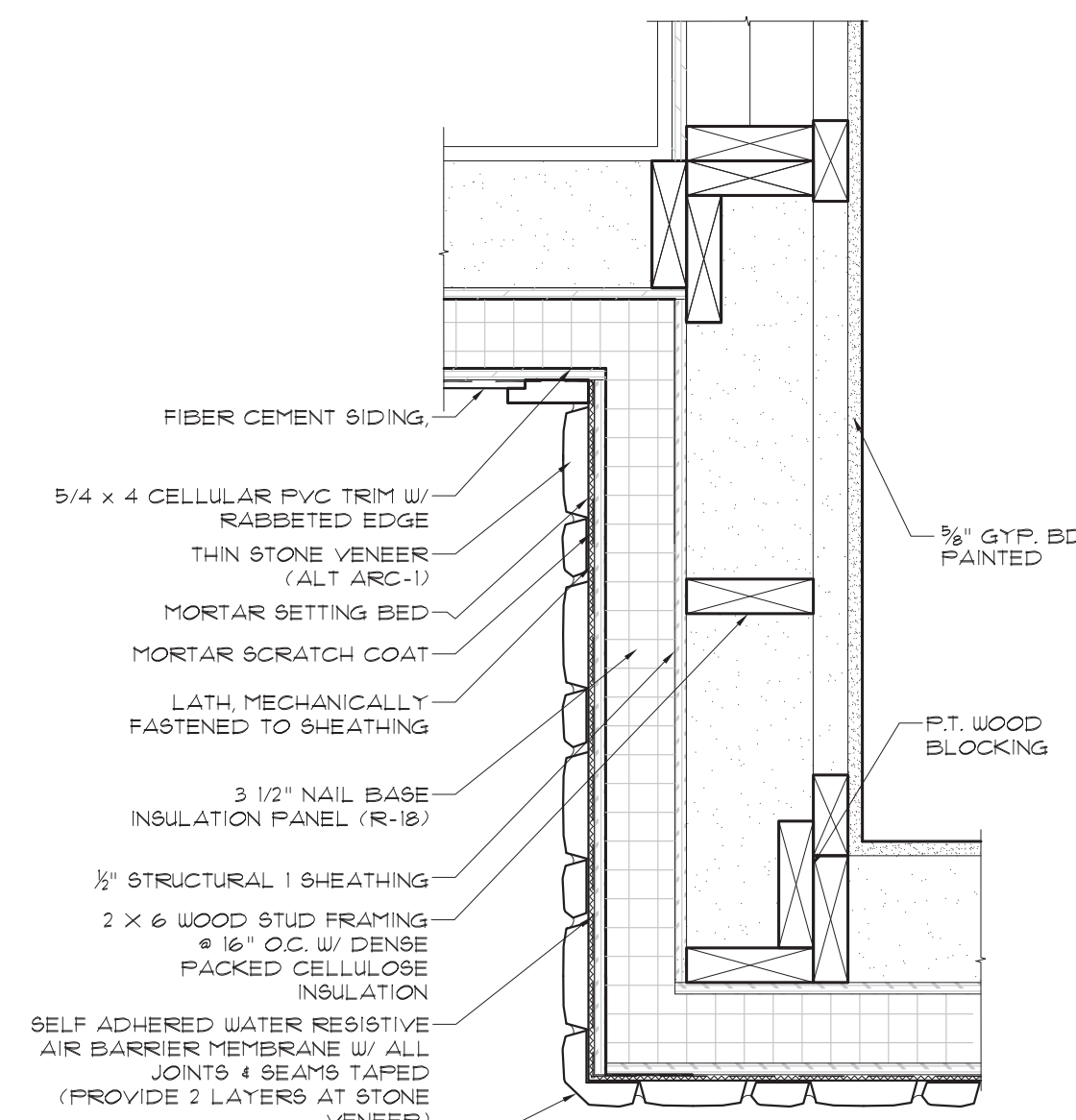
PLAN DETAIL 4 1/2" = 1'-0"



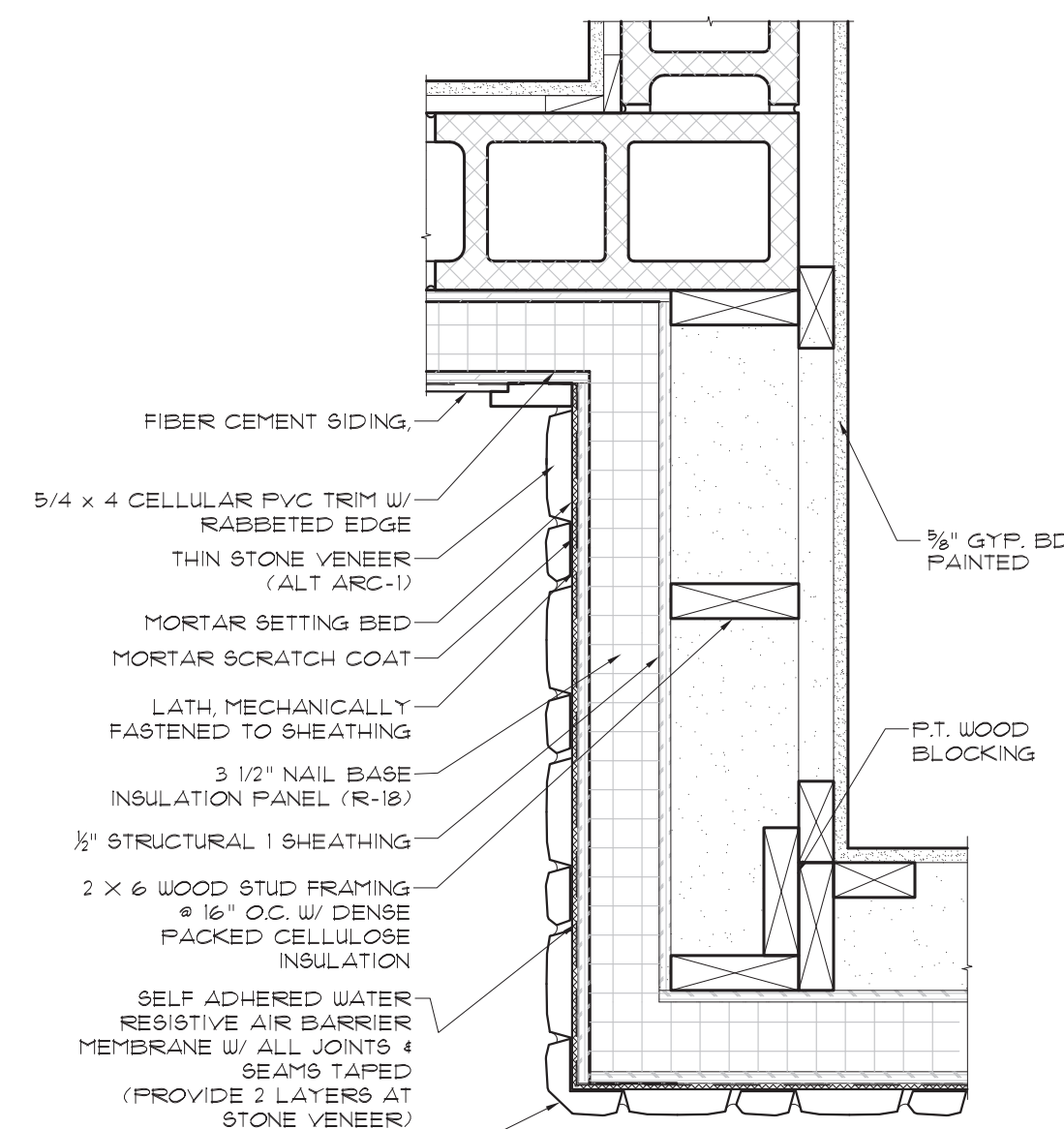
PLAN DETAIL 5 1/2" = 1'-0"



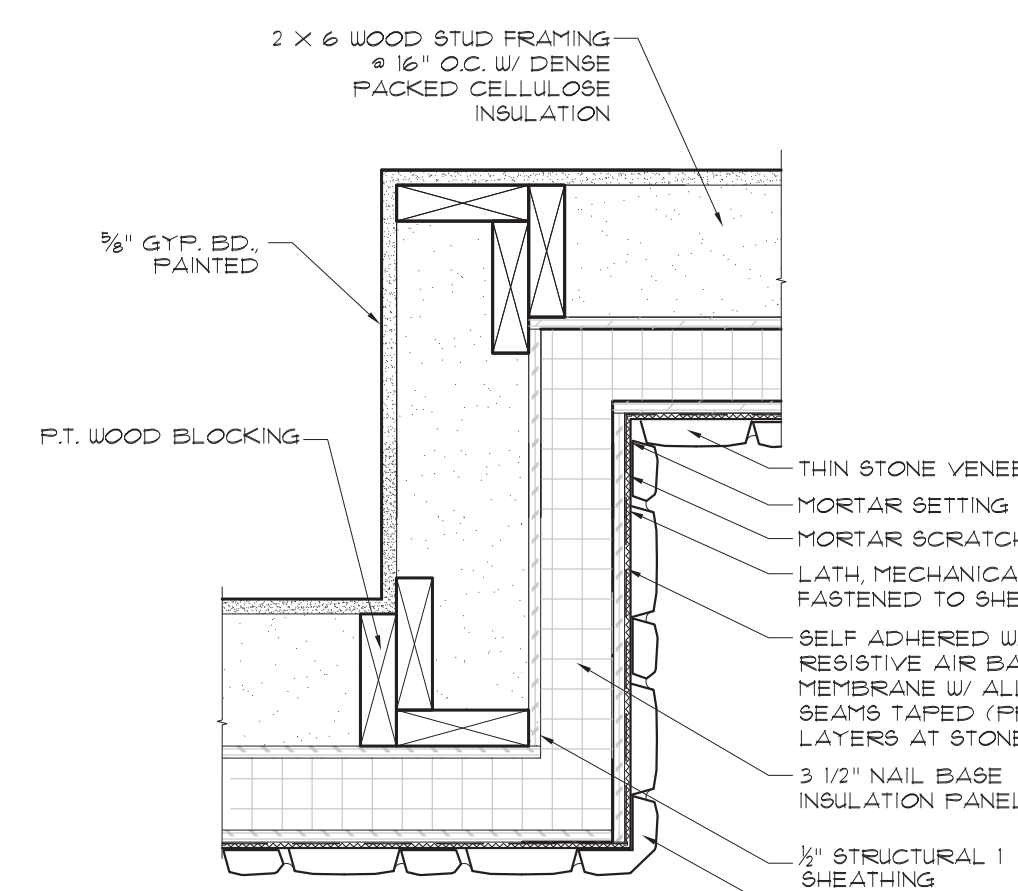
PLAN DETAIL 6 1/2" = 1'-0"



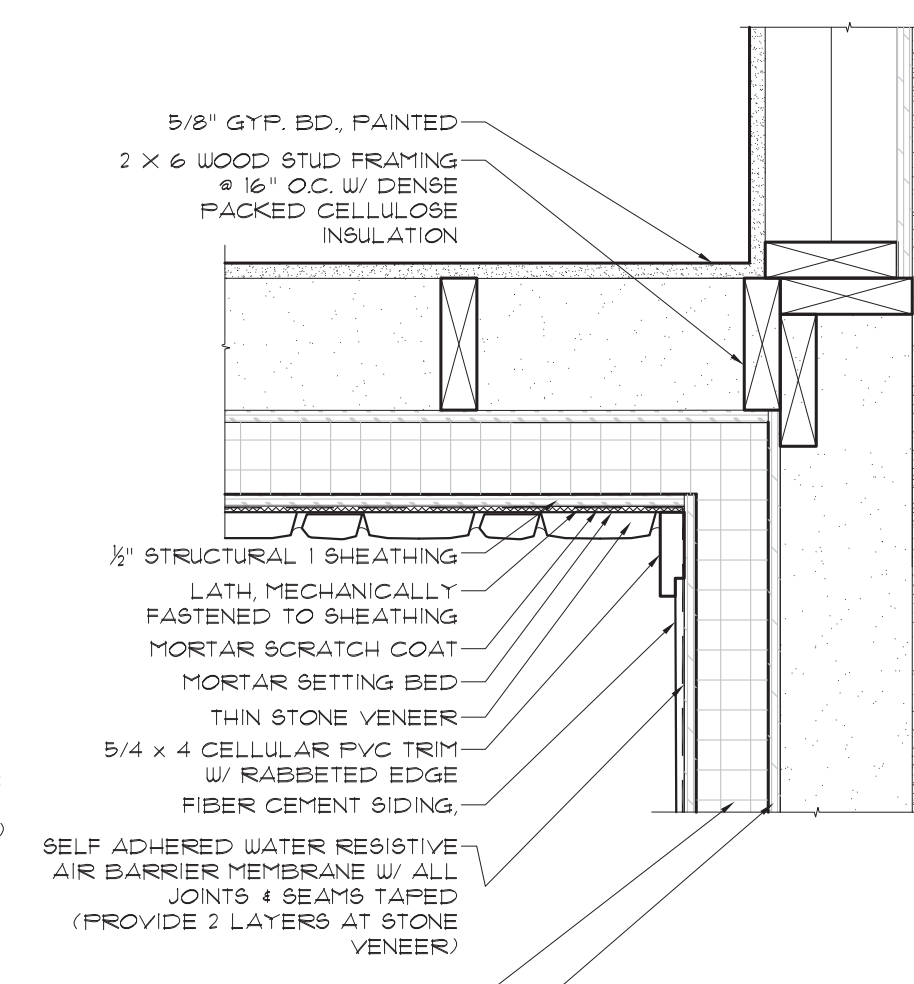
PLAN DETAIL 8 1/2" = 1'-0"



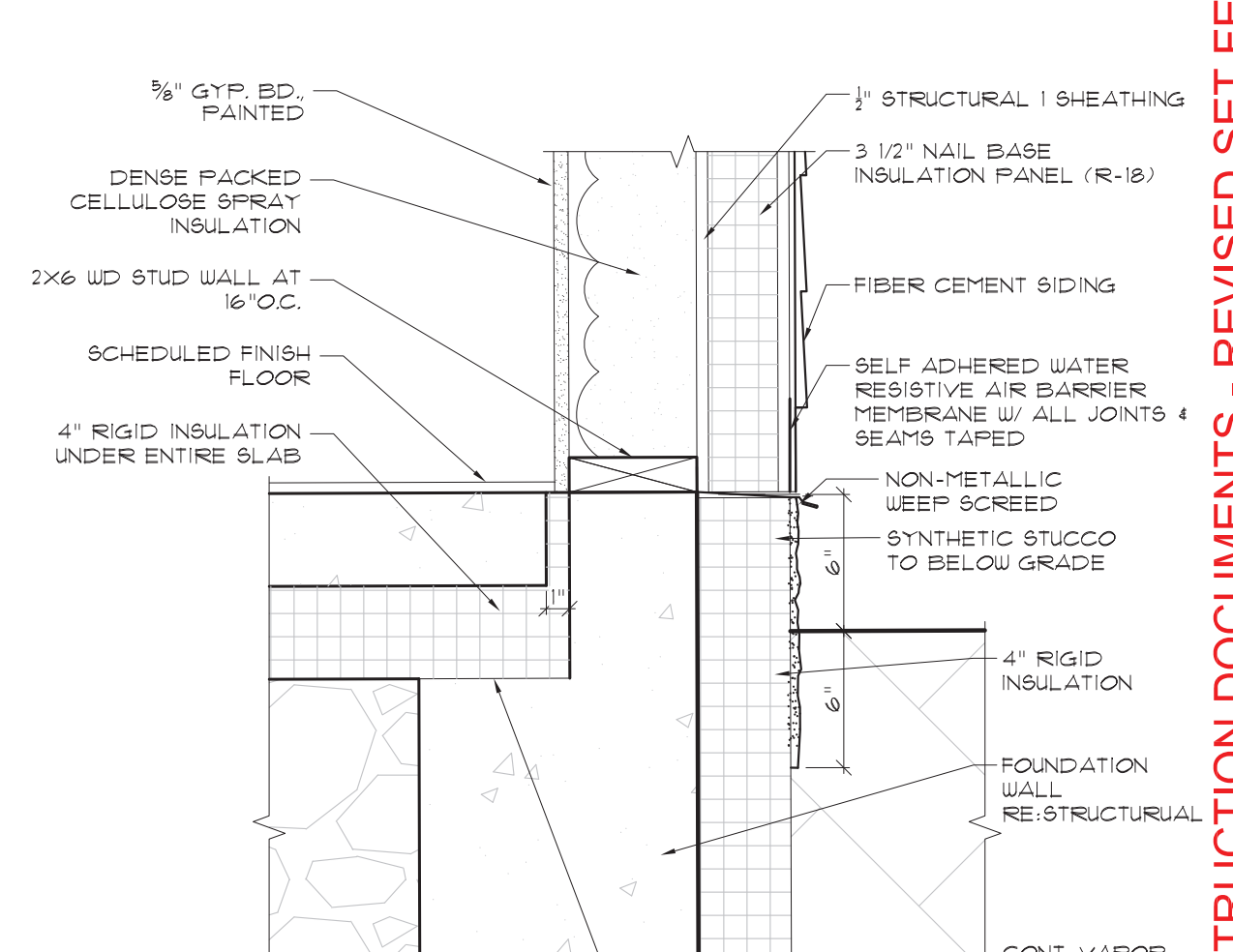
PLAN DETAIL 9 1/2" = 1'-0"



PLAN DETAIL 10 1/2" = 1'-0"



PLAN DETAIL 11 1/2" = 1'-0"



FOUNDATION DETAIL 12 1/2" = 1'-0"

NOTES FOR BUILDING E:  
 1) PROVIDE 1/2" ONE SIDED LP FLAMEBLOCK SHEATHING AT EXTERIOR SHEATHING.  
 2) PROVIDE 5/8" FIRESHIELD GYPSUM BOARD AT INTERIOR GYPSUM BOARD.  
 3) SEAL ALL GAPS AND PENETRATIONS WITH FIRE CAULKING.



SHEET CONTENTS:  
 Wall & Plan Details

PROJECT # 1420  
 DATE: 9/22/2020  
 REVISED DATE:  
 REVISED: 02/16/2021

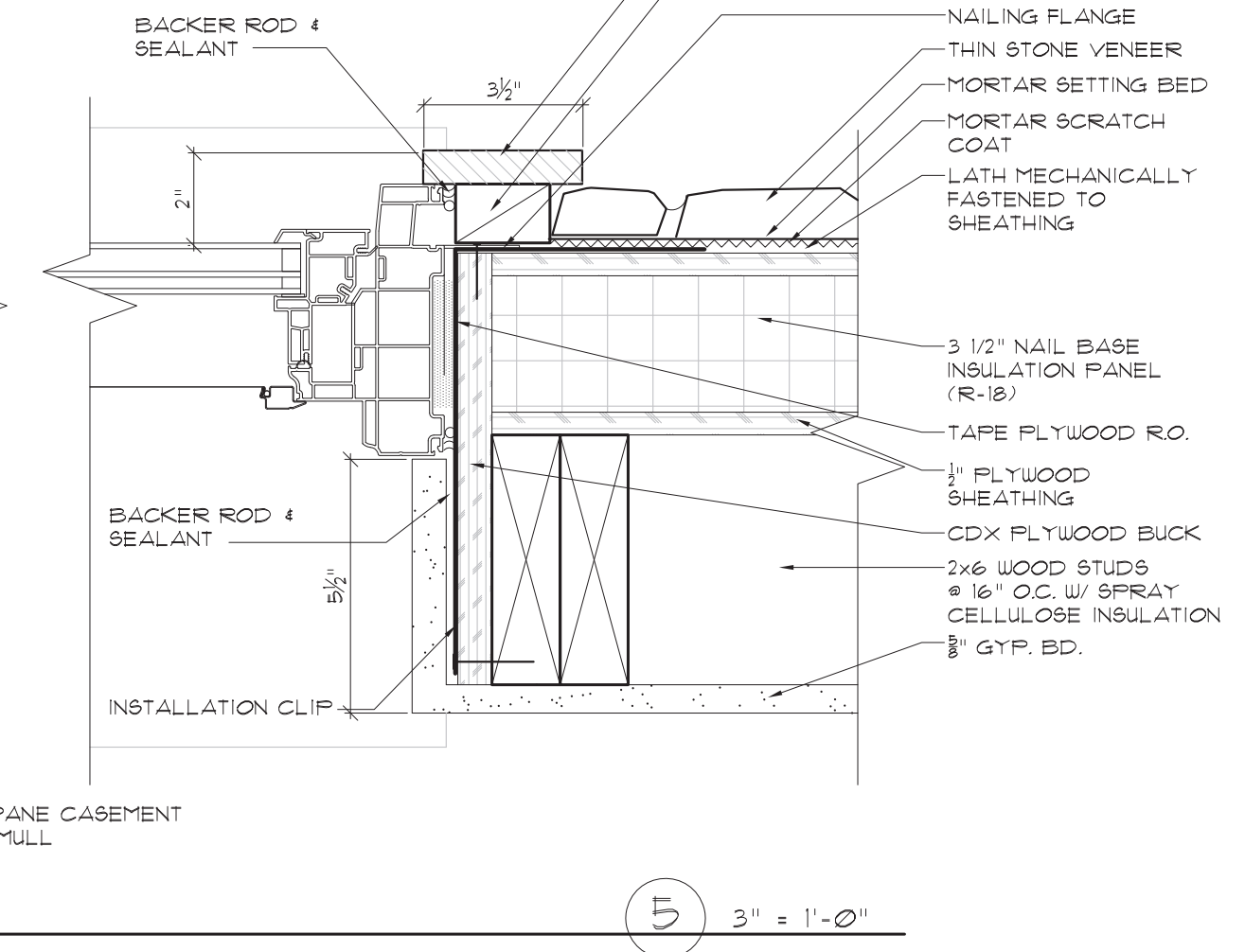
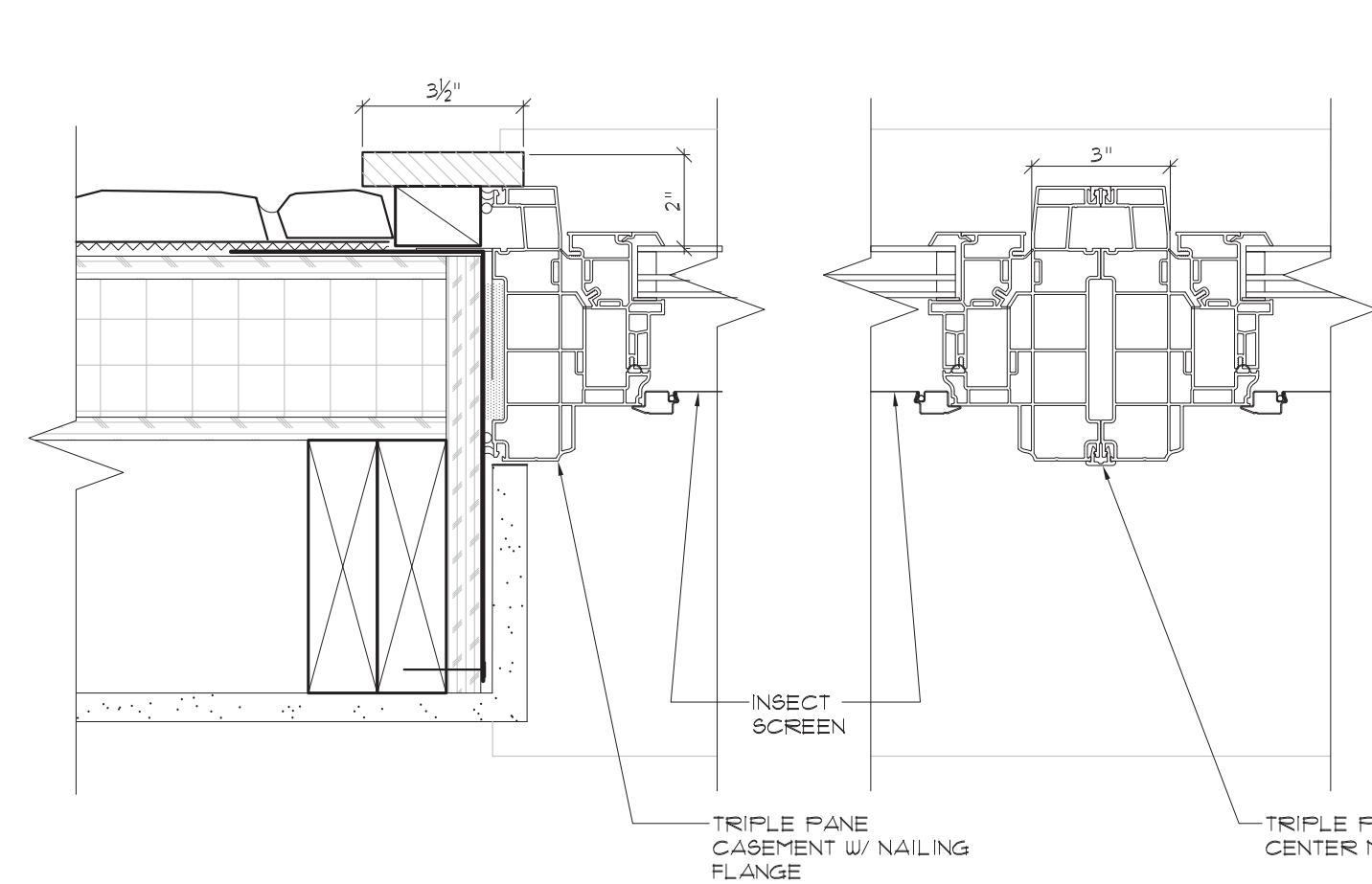
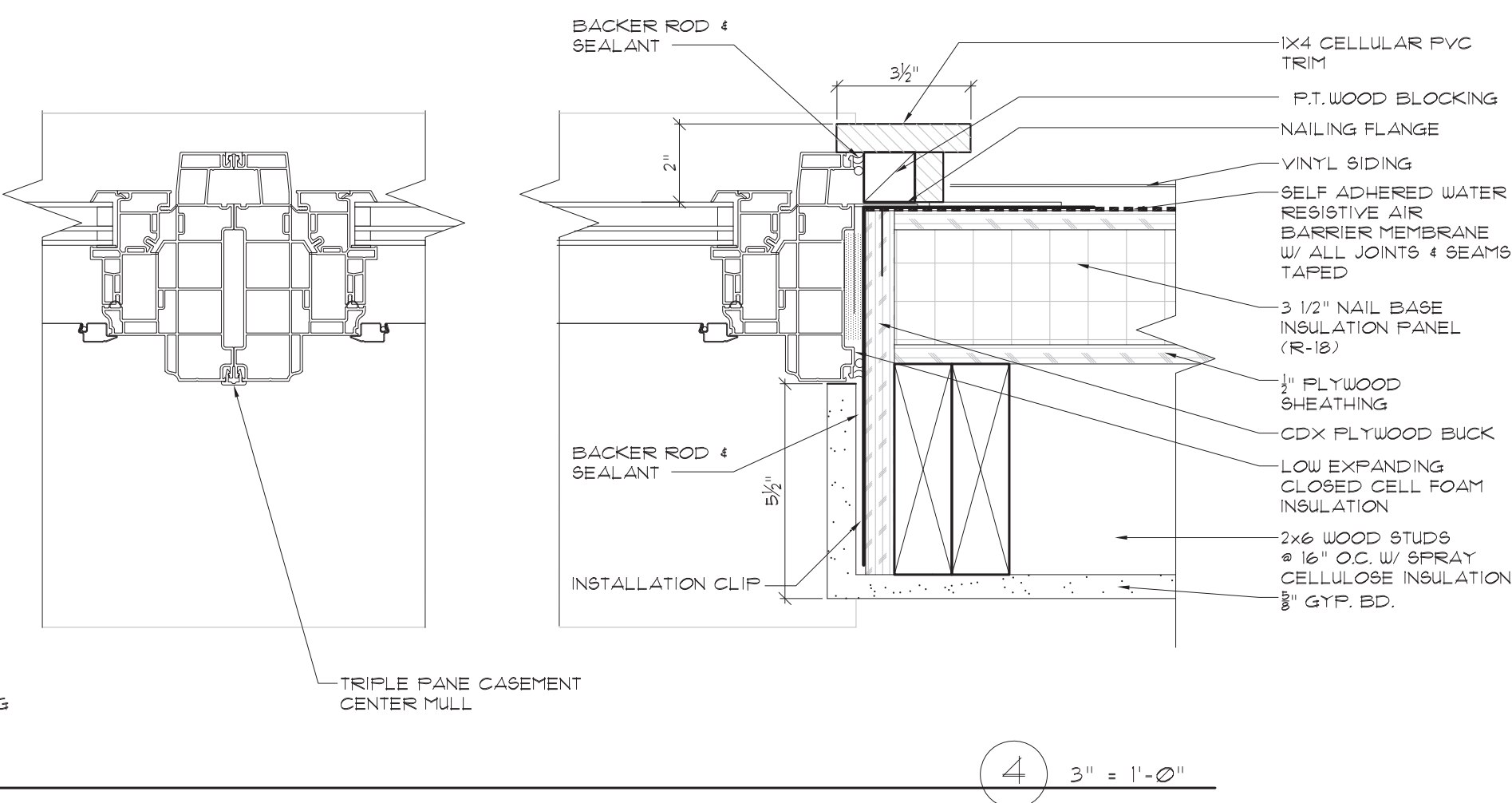
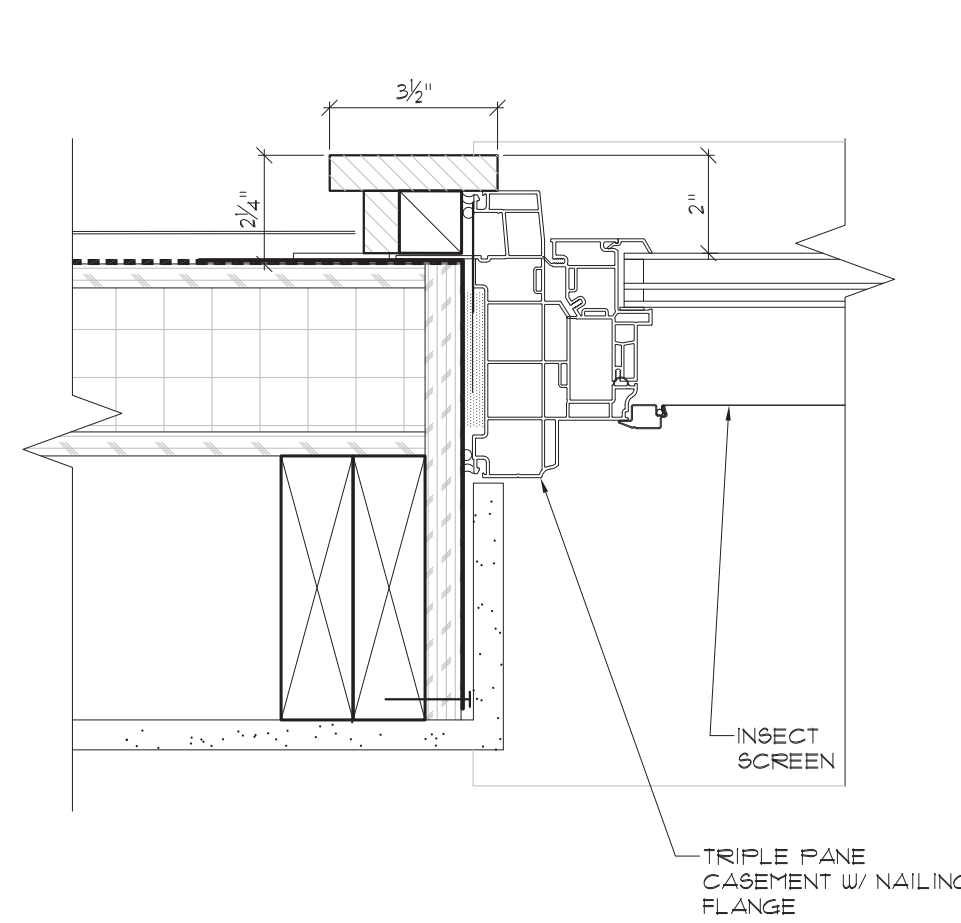
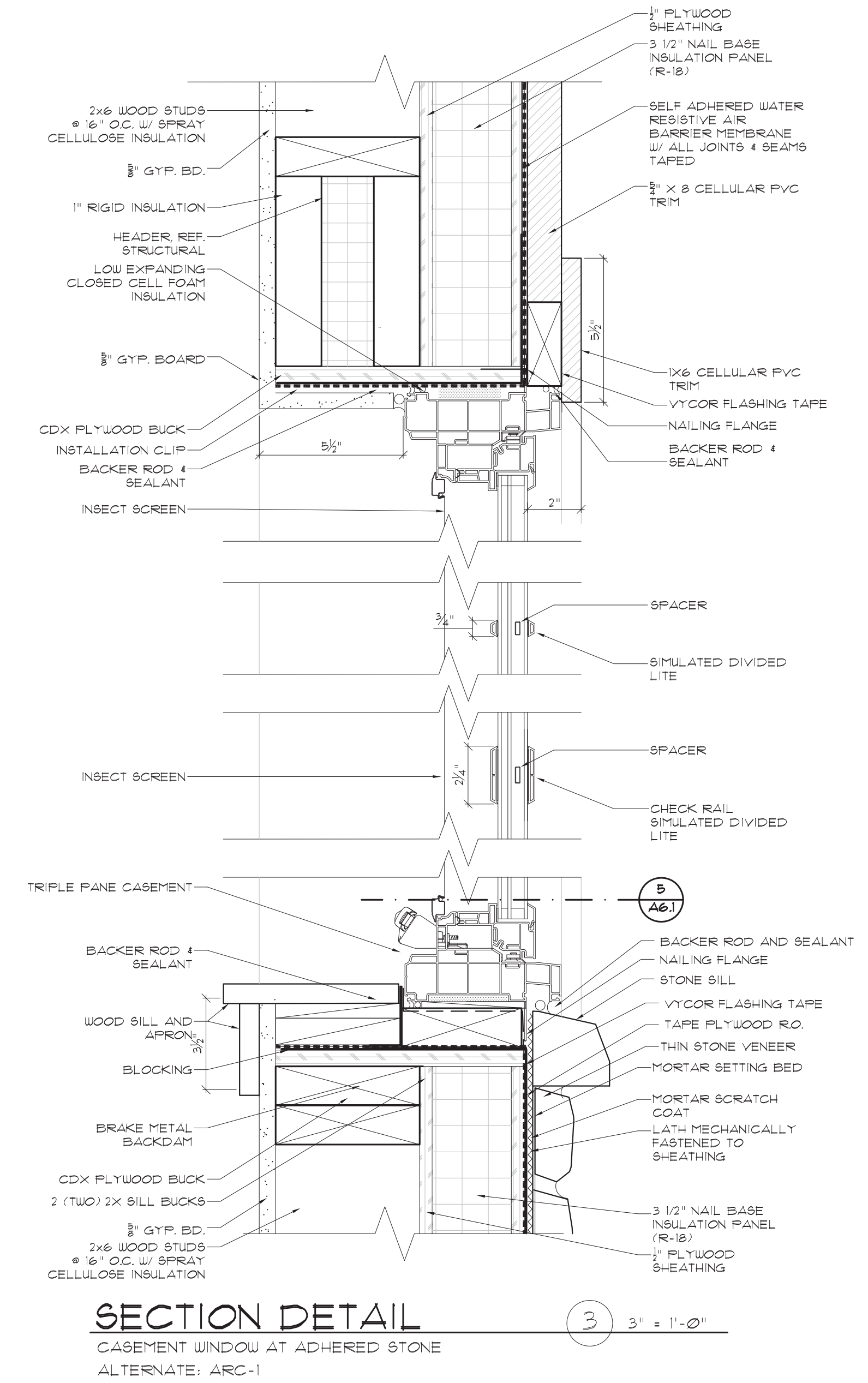
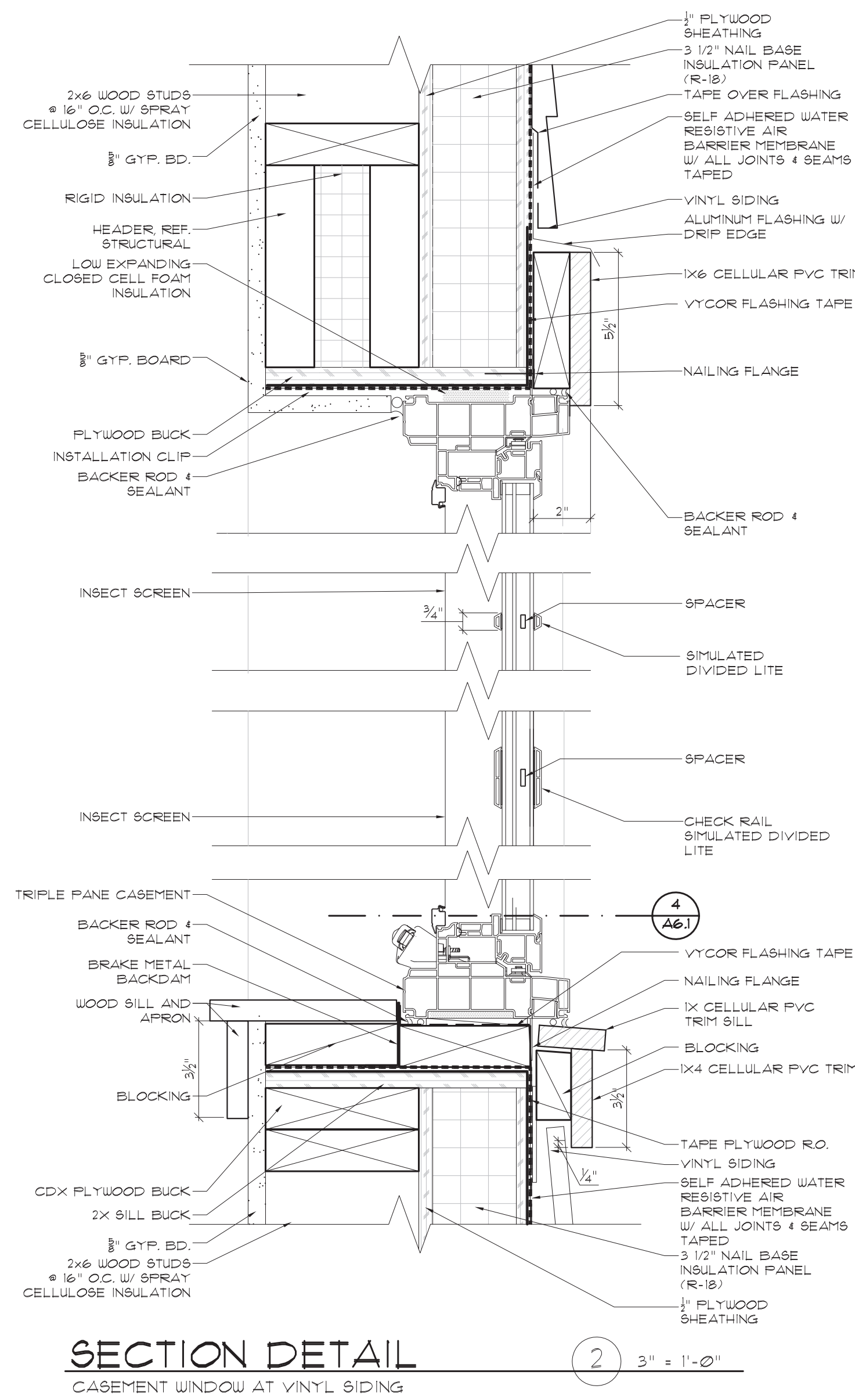
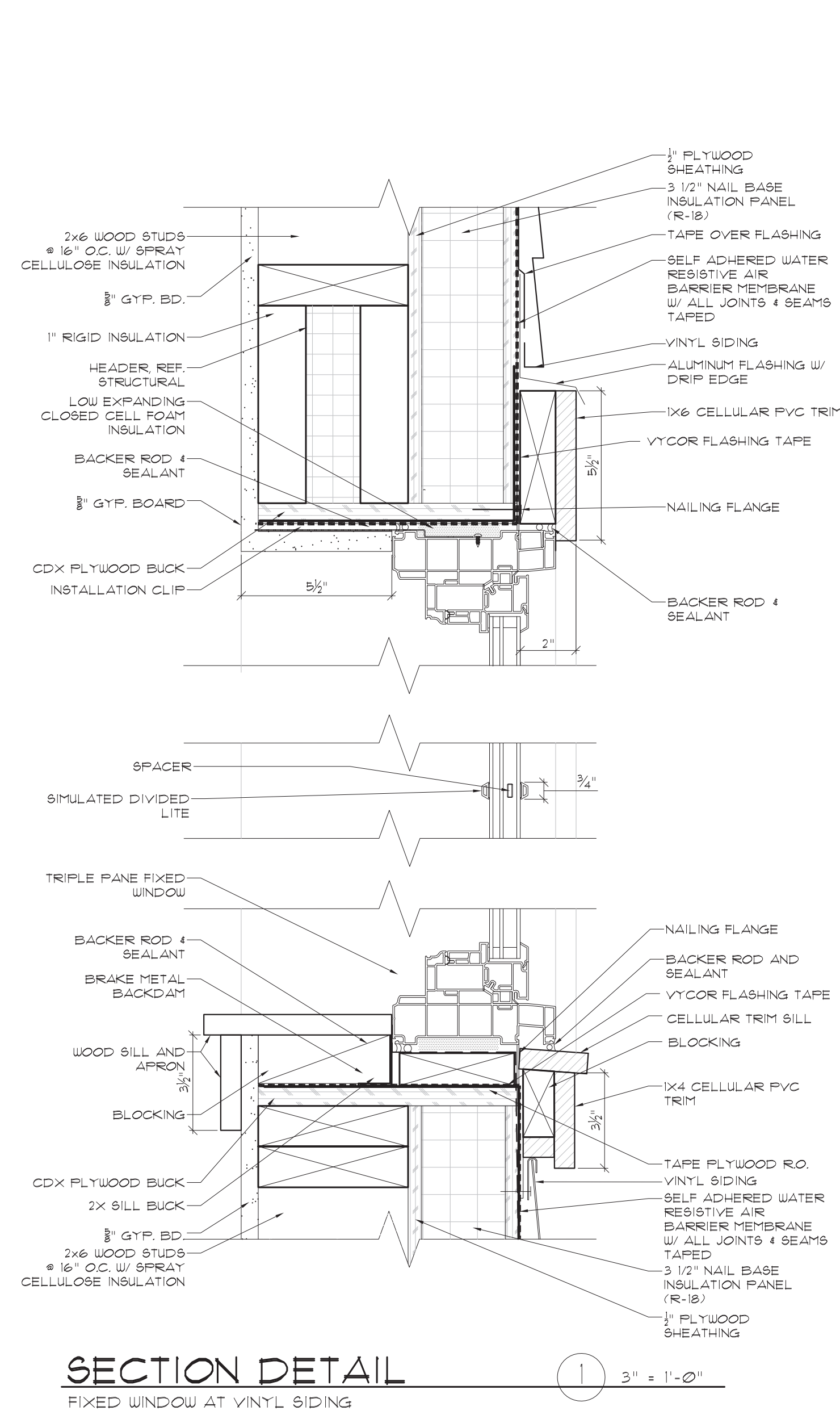
**A6.0**

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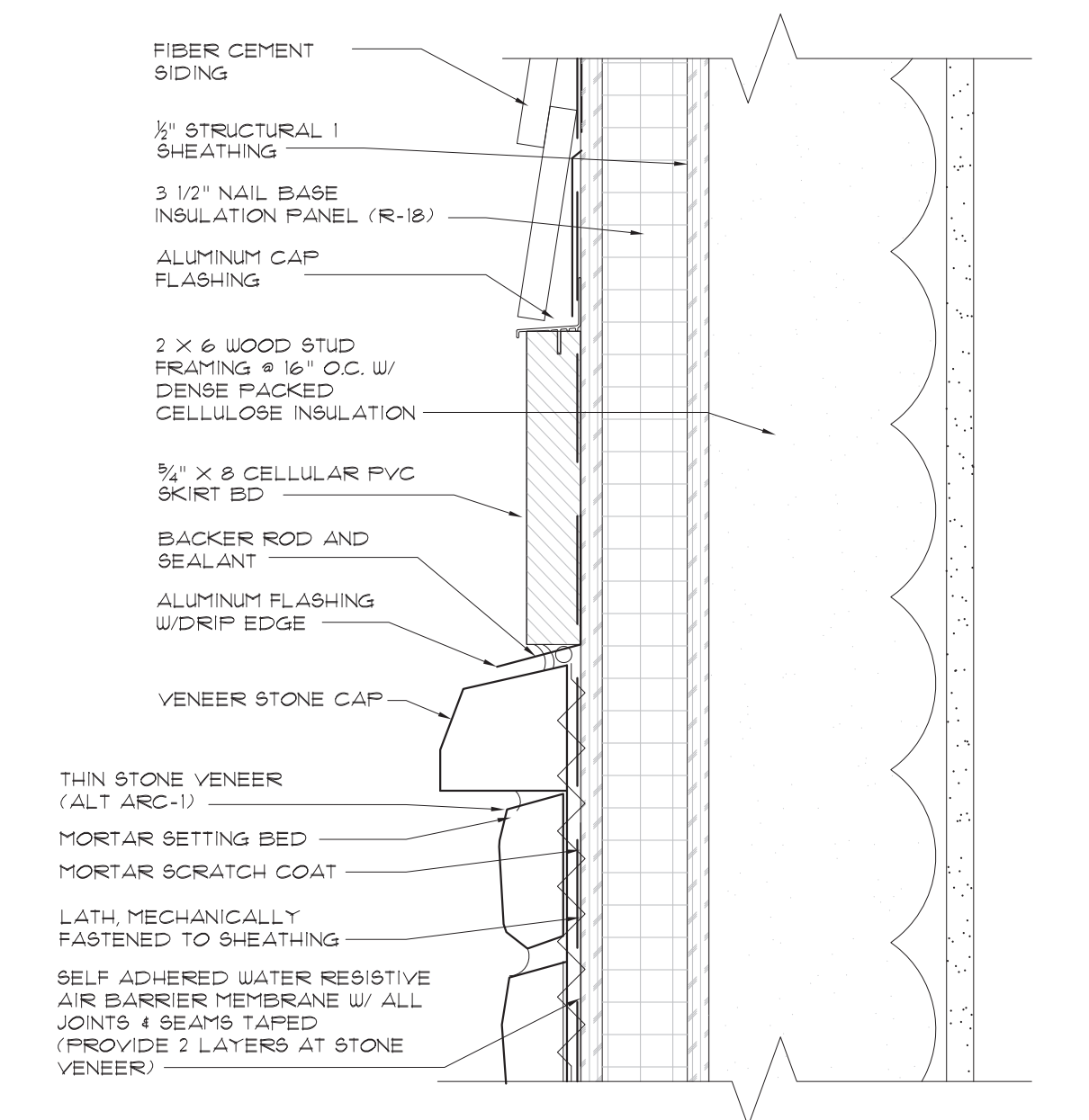
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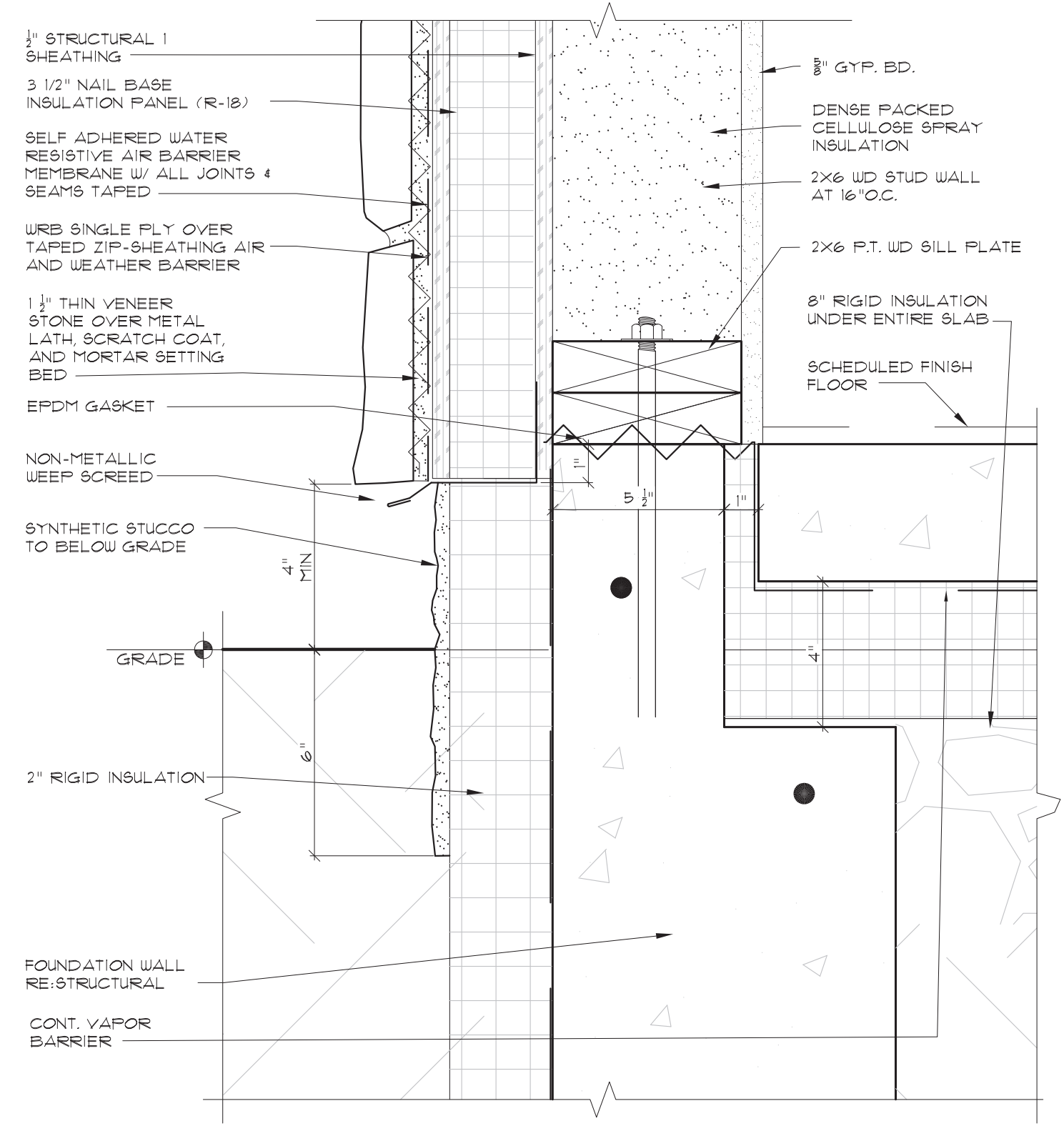
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Details

PROJECT # 1420  
DATE: 9/22/2020  
REVISED DATE:  
REVISED: 02/16/2021

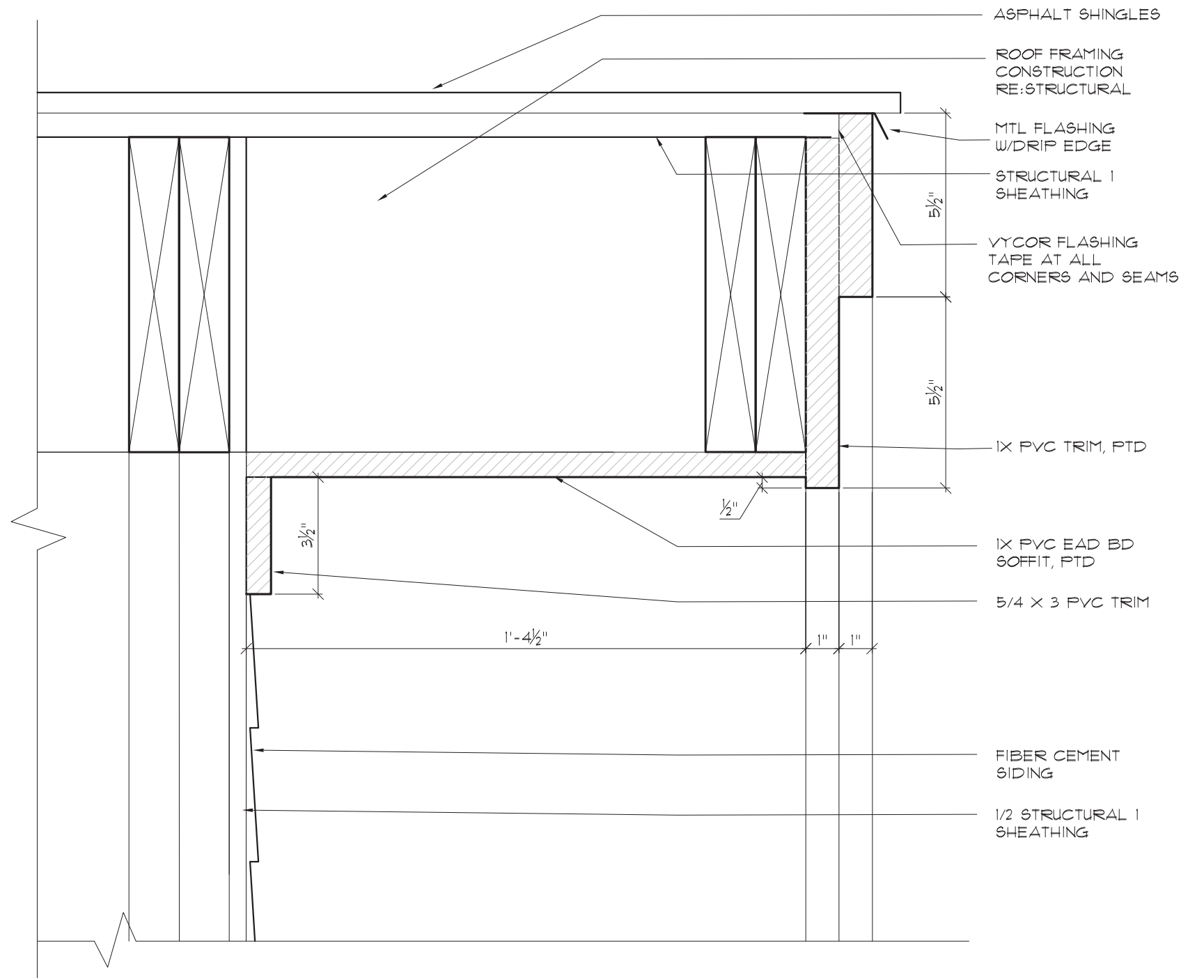
CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021



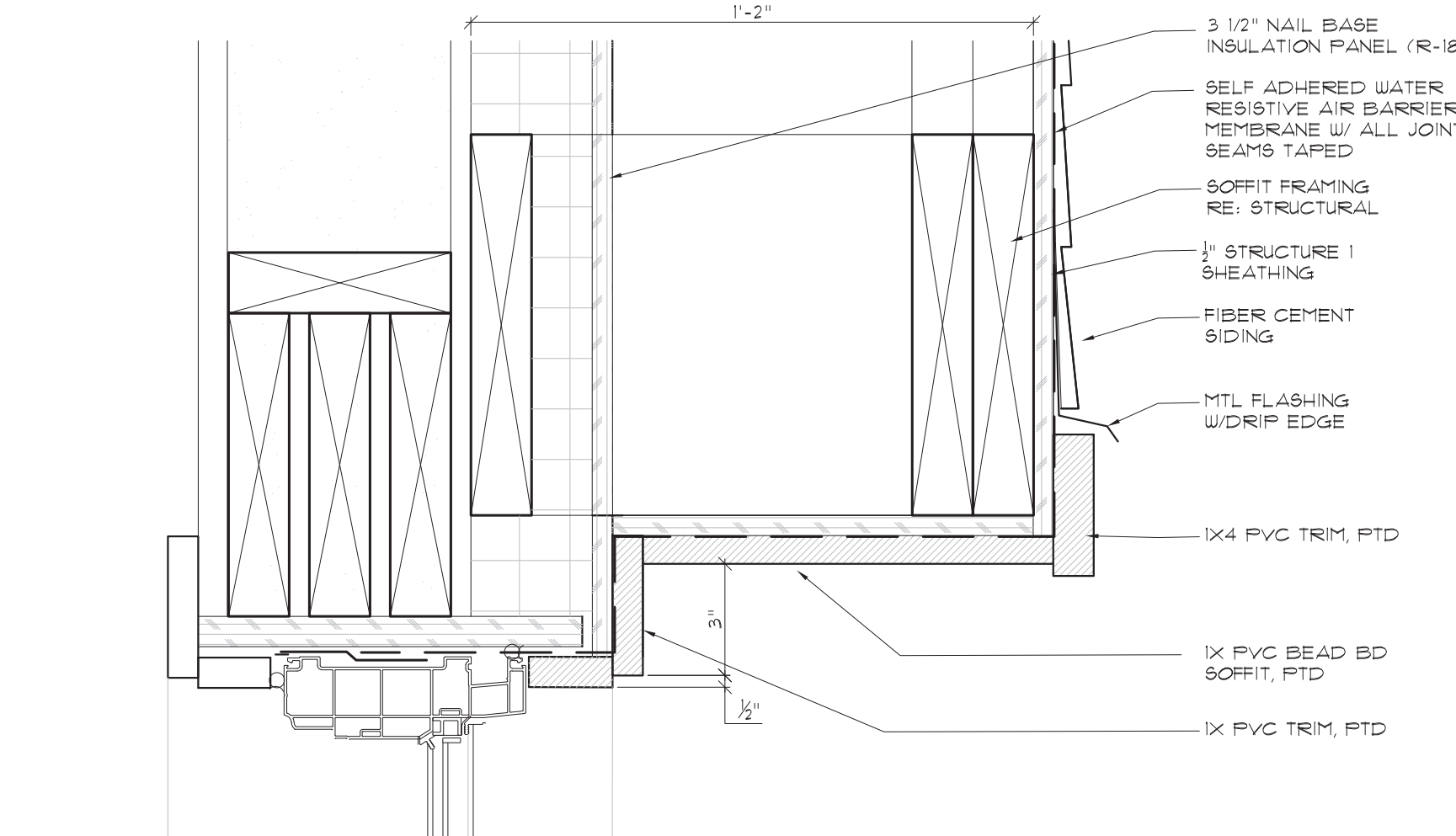
**SECTION DETAIL** 1 3" = 1'-0"  
TYPICAL WATERTABLE AT STONE VENEER  
ALTERNATE: ARC-1



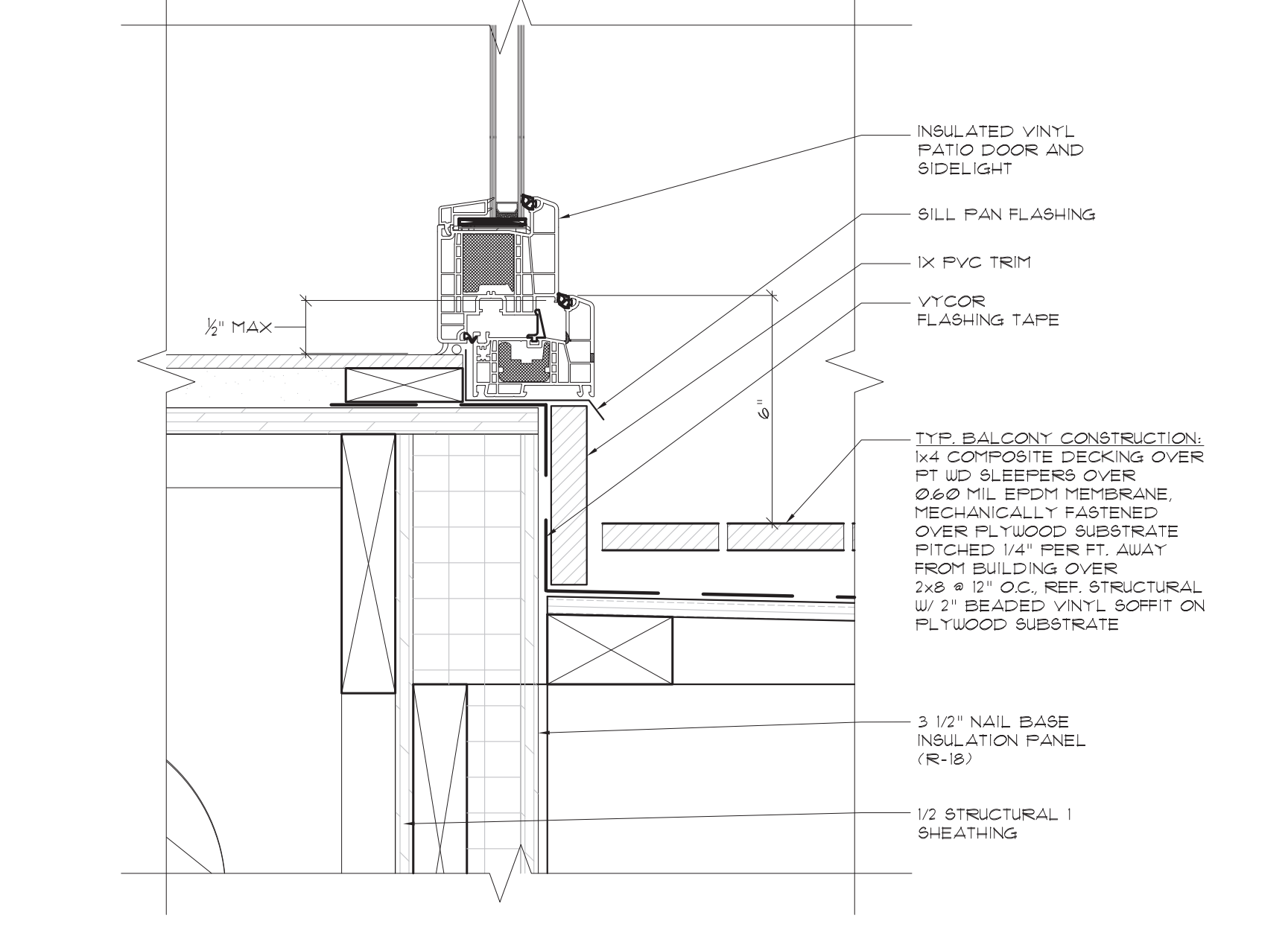
**SECTION DETAIL** 4 3" = 1'-0"  
TYPICAL FOUNDATION AT STONE VENEER  
ALTERNATE: ARC-1



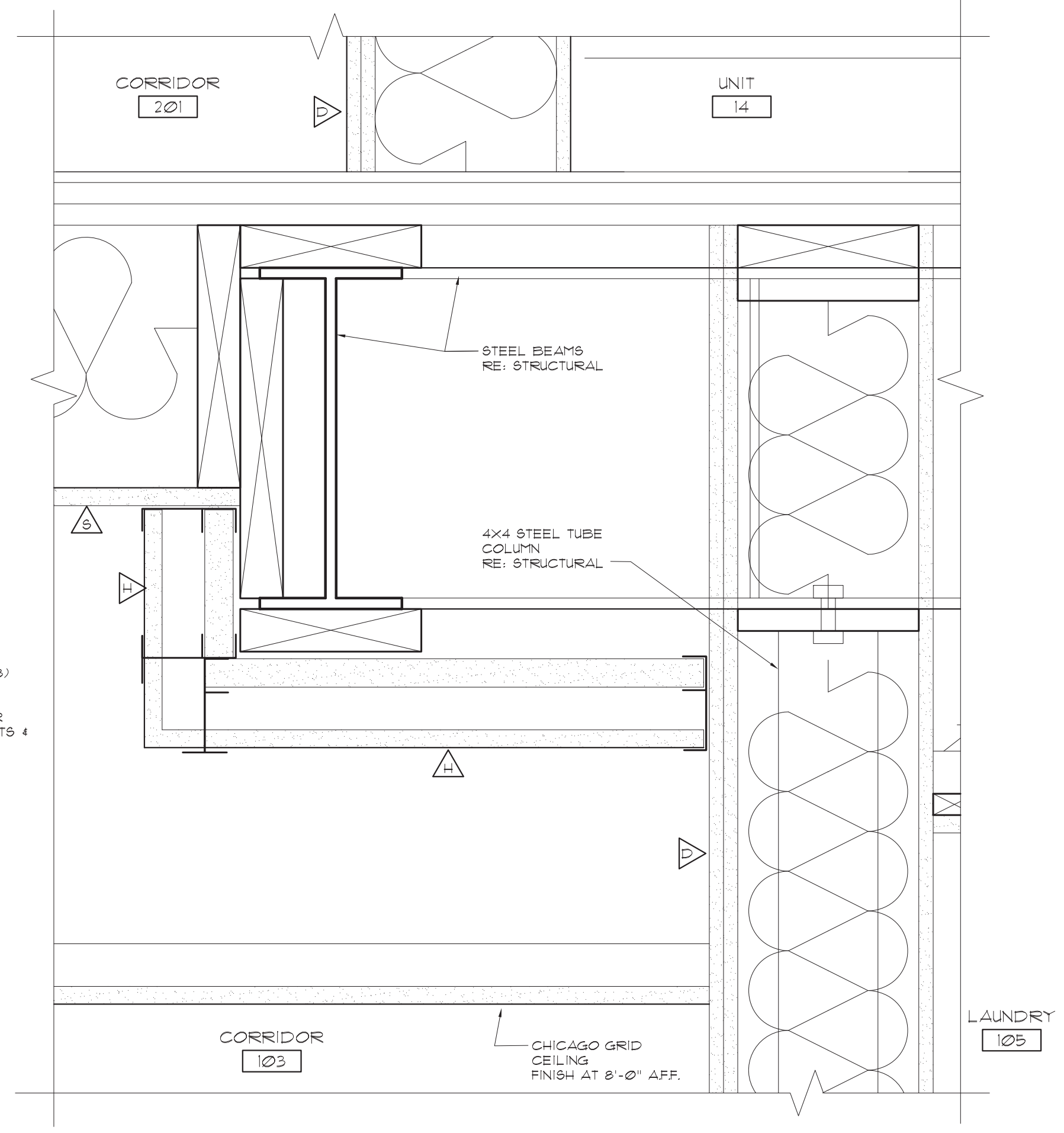
**SECTION DETAIL** 2 3" = 1'-0"  
TYPICAL RAKE DETAIL



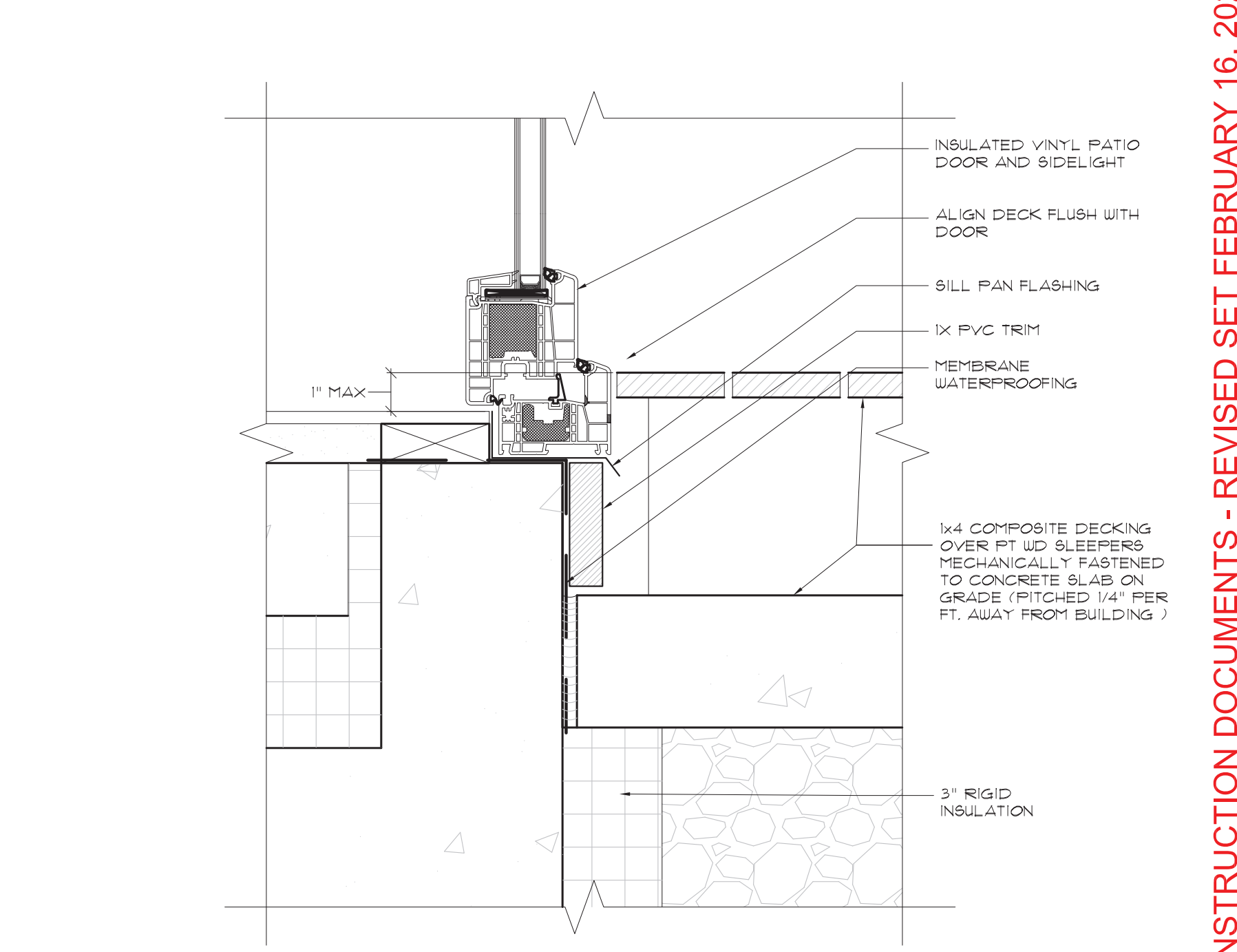
**SECTION DETAIL** 5 3" = 1'-0"  
AT PORCH - SECOND THRU FOURTH FLOOR



**SECTION DETAIL** 6 3" = 1'-0"  
AT PORCH - SECOND THRU FOURTH FLOOR

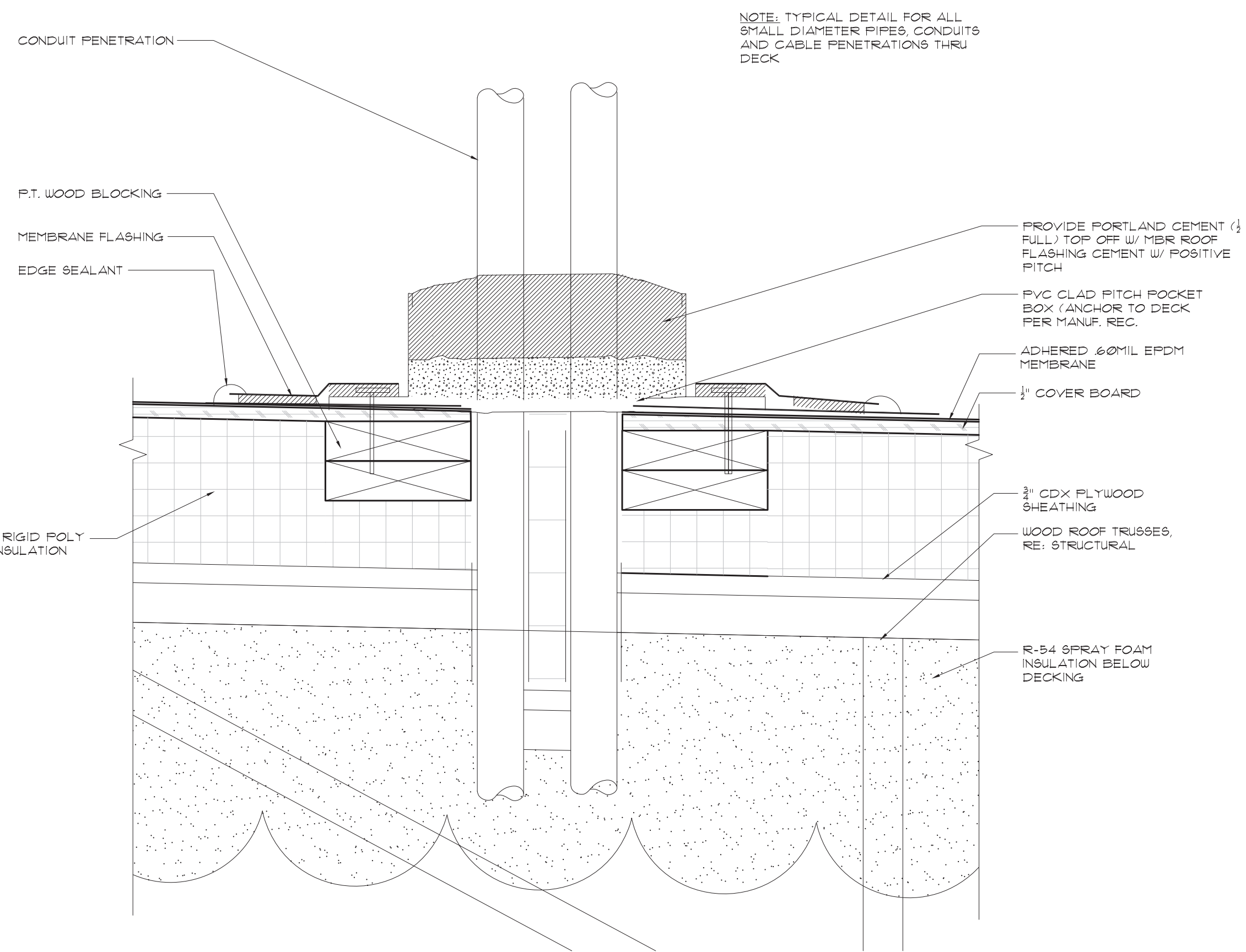


**SECTION DETAIL** 3 3" = 1'-0"  
CORRIDOR CEILING DETAIL AT FIRST FLOOR  
BUILDING E 4 F

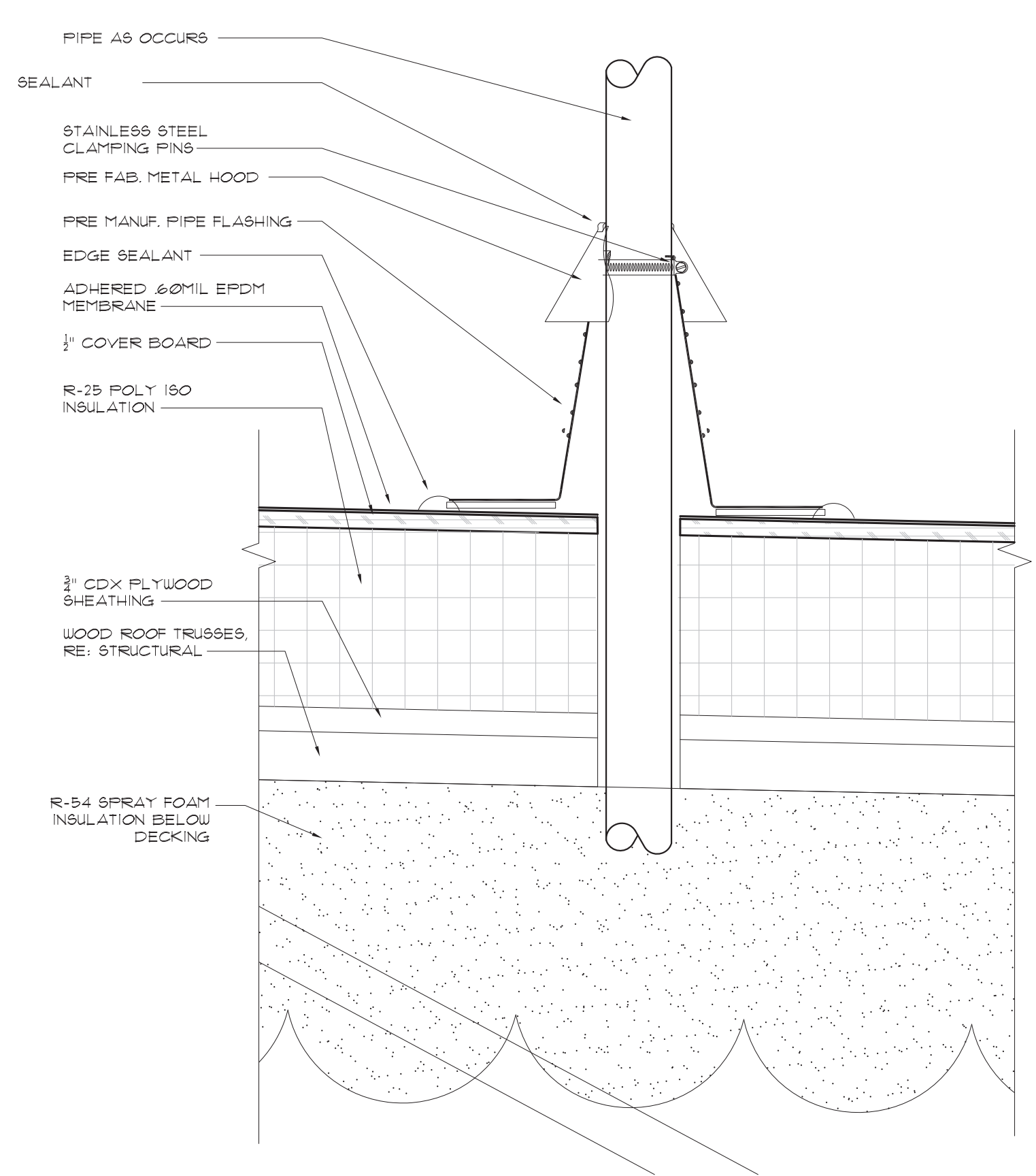


**SECTION DETAIL** 7 3" = 1'-0"  
AT PORCH - FIRST FLOOR PATIO (ACCESSIBLE)

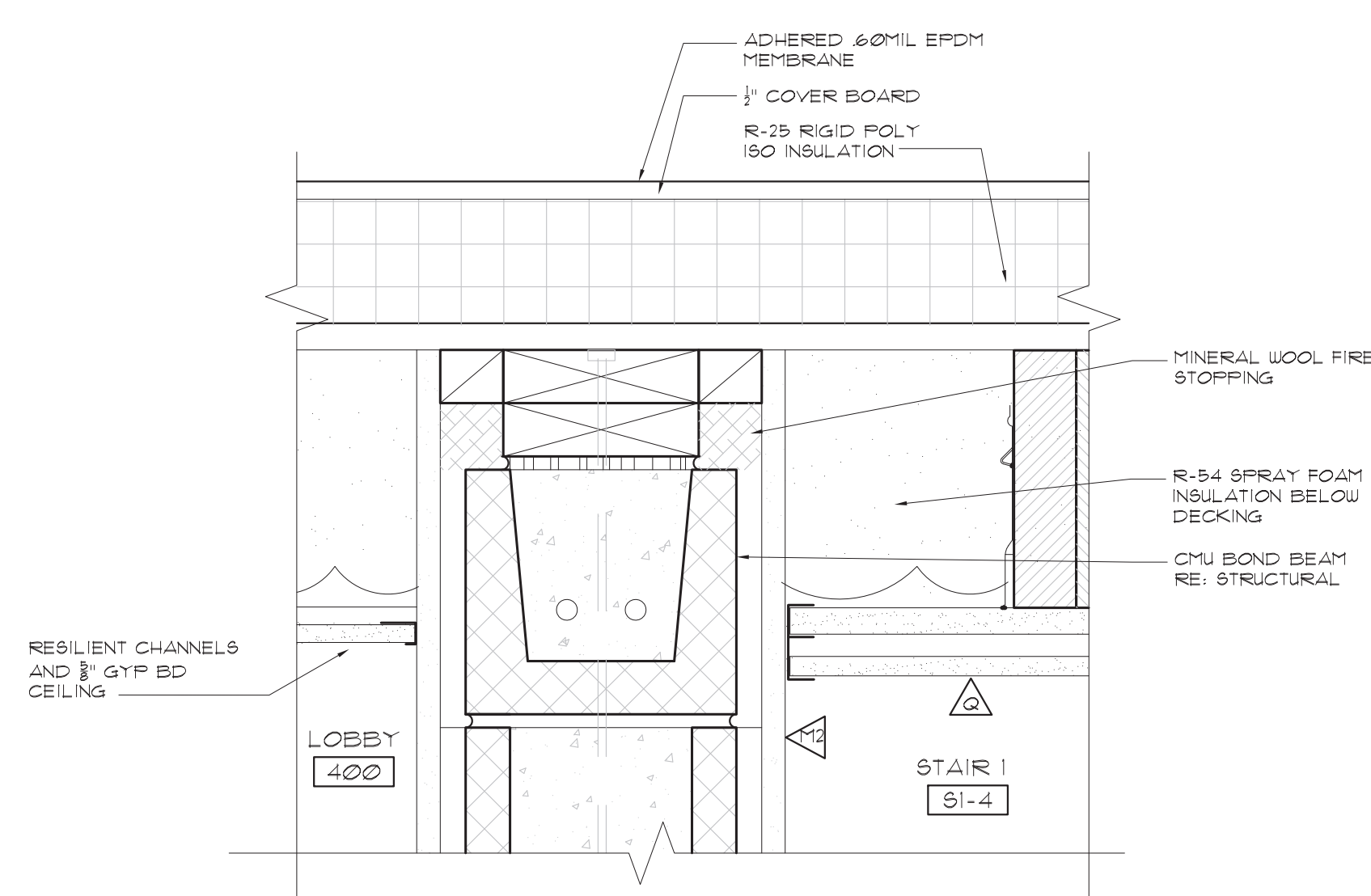
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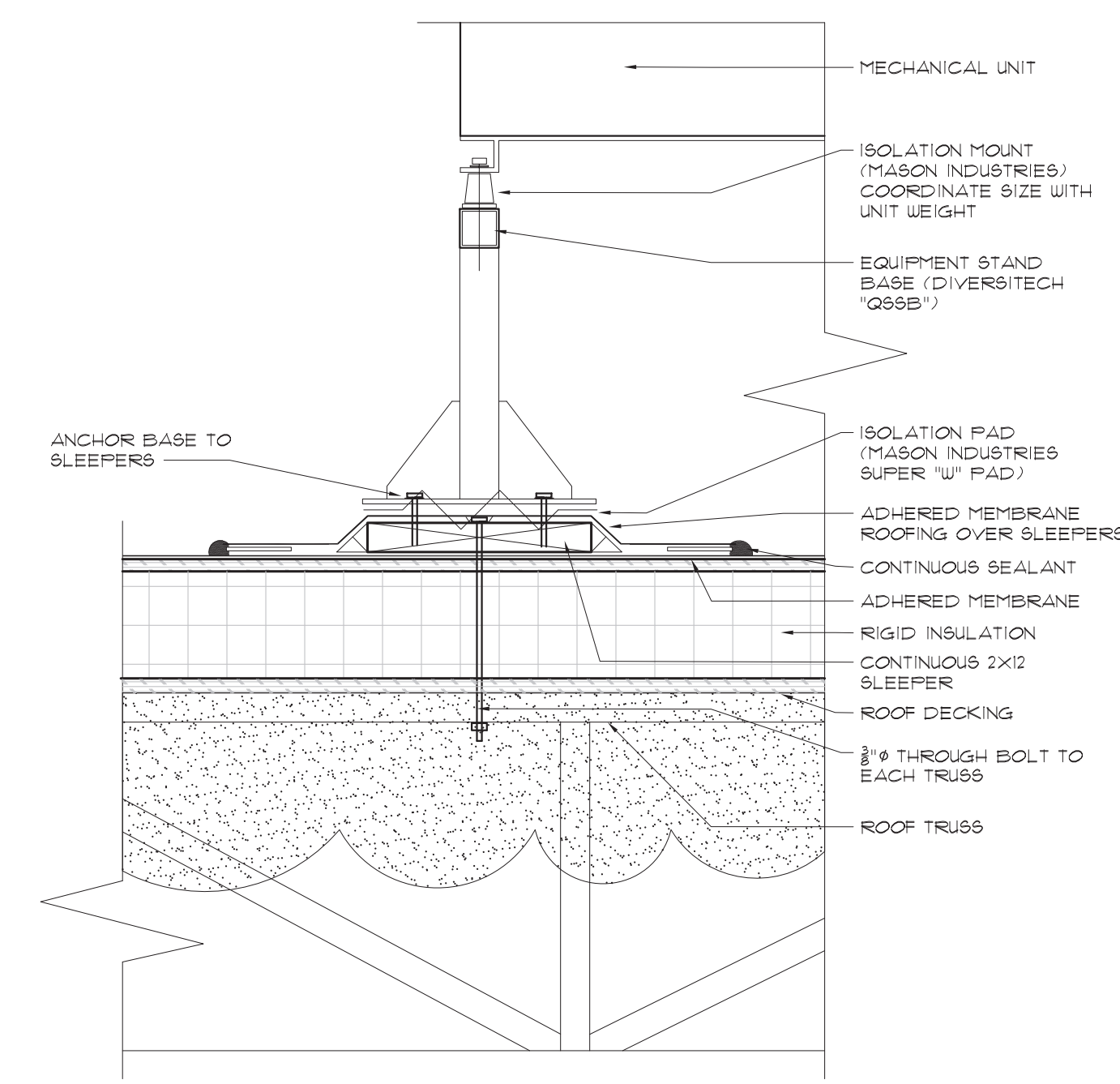
**SECTION DETAIL 1**  
ROOF VENT  
3" = 1'-0"



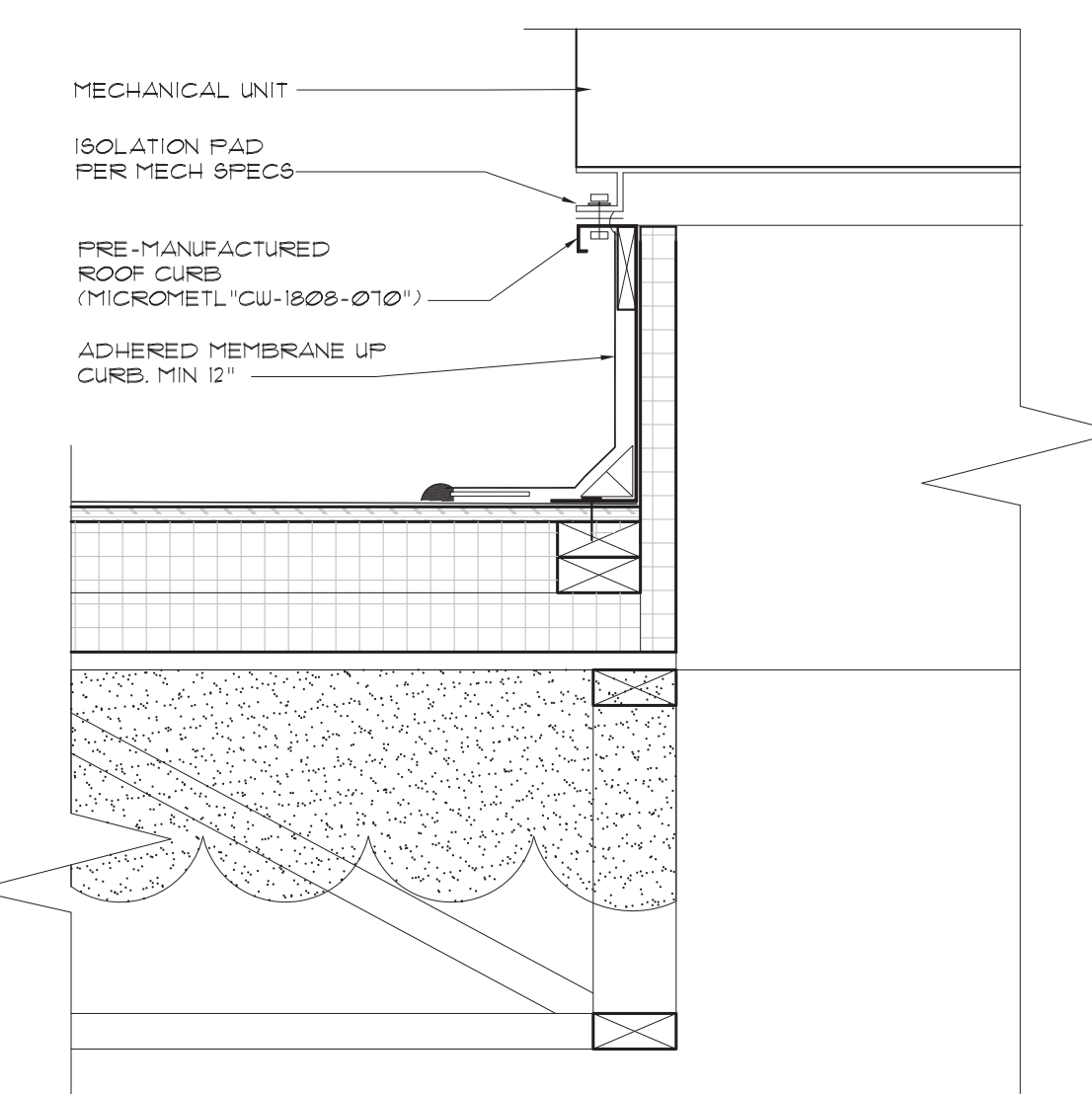
**SECTION DETAIL 2**  
ROOF VENT  
3" = 1'-0"



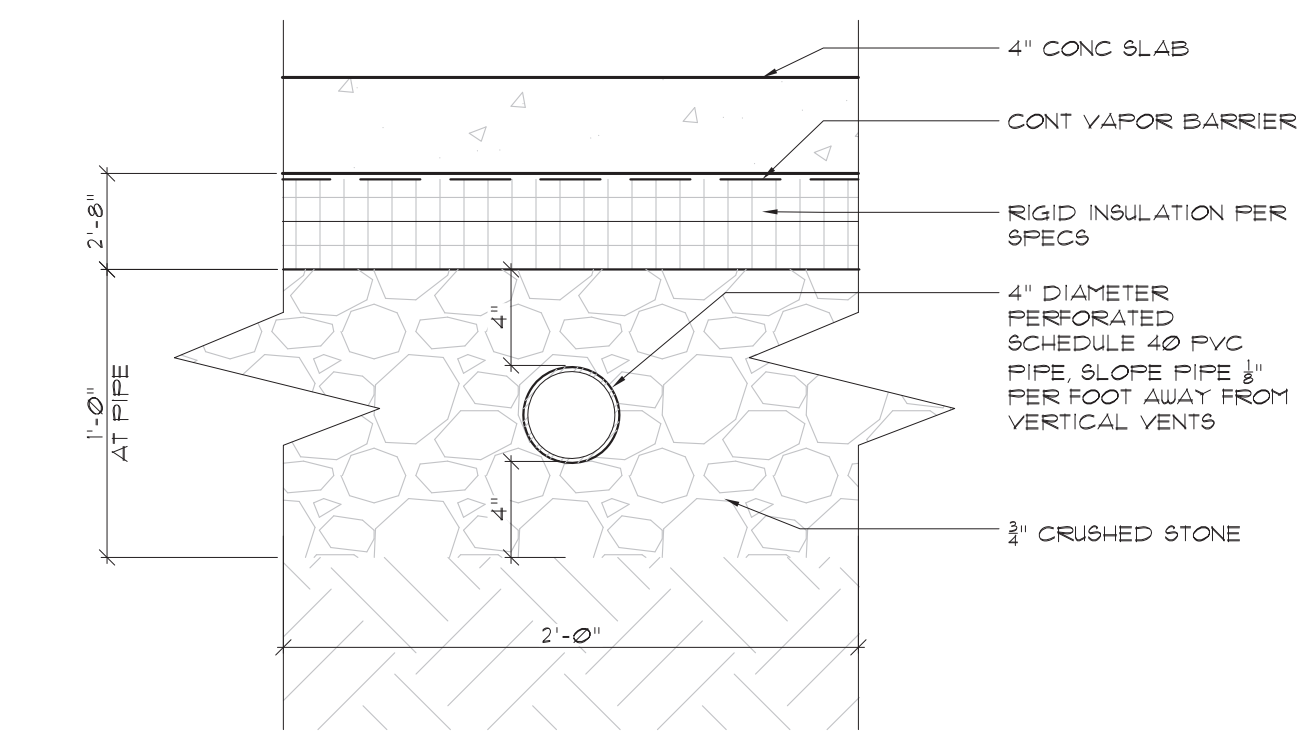
**SECTION DETAIL 3**  
TYPICAL RAKE DETAIL  
3" = 1'-0"



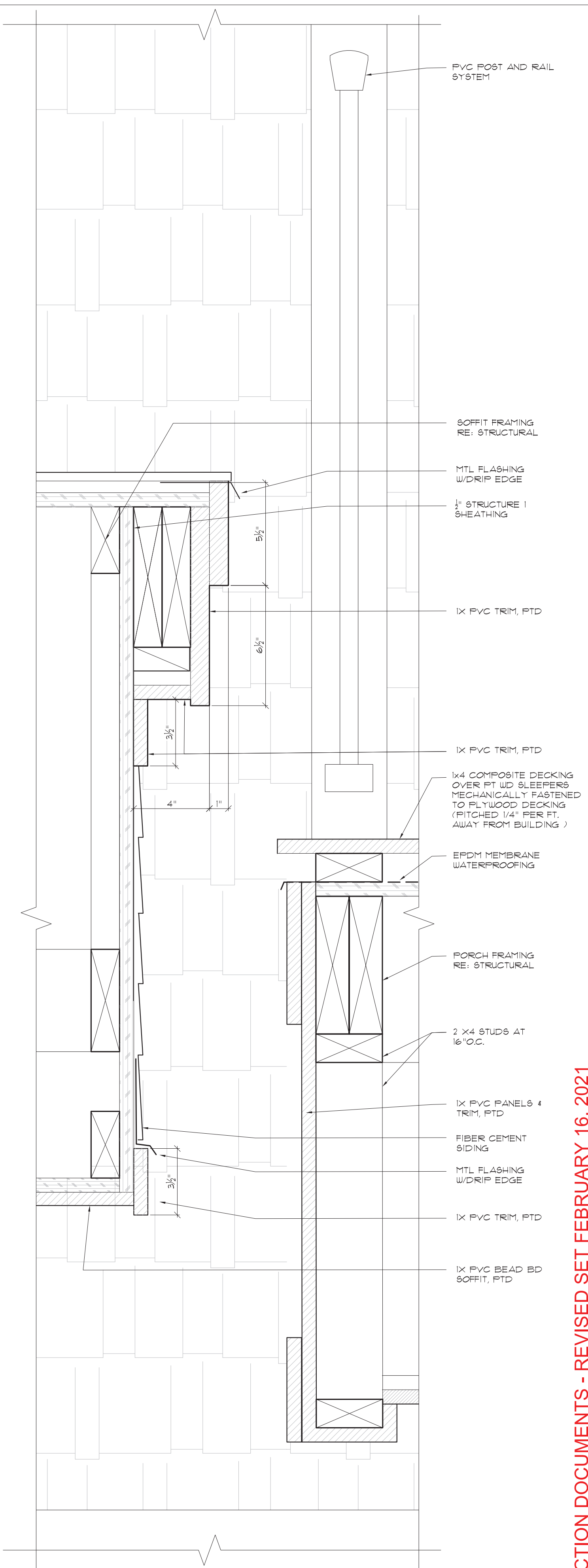
**SECTION DETAIL 5**  
ROOF EQUIPMENT STAND  
1 1/2" = 1'-0"



**SECTION DETAIL 6**  
CURB AT MECHANICAL UNITS  
1 1/2" = 1'-0"



**SECTION DETAIL 4**  
UNDERSLAB RADON PIPING  
3" = 1'-0"



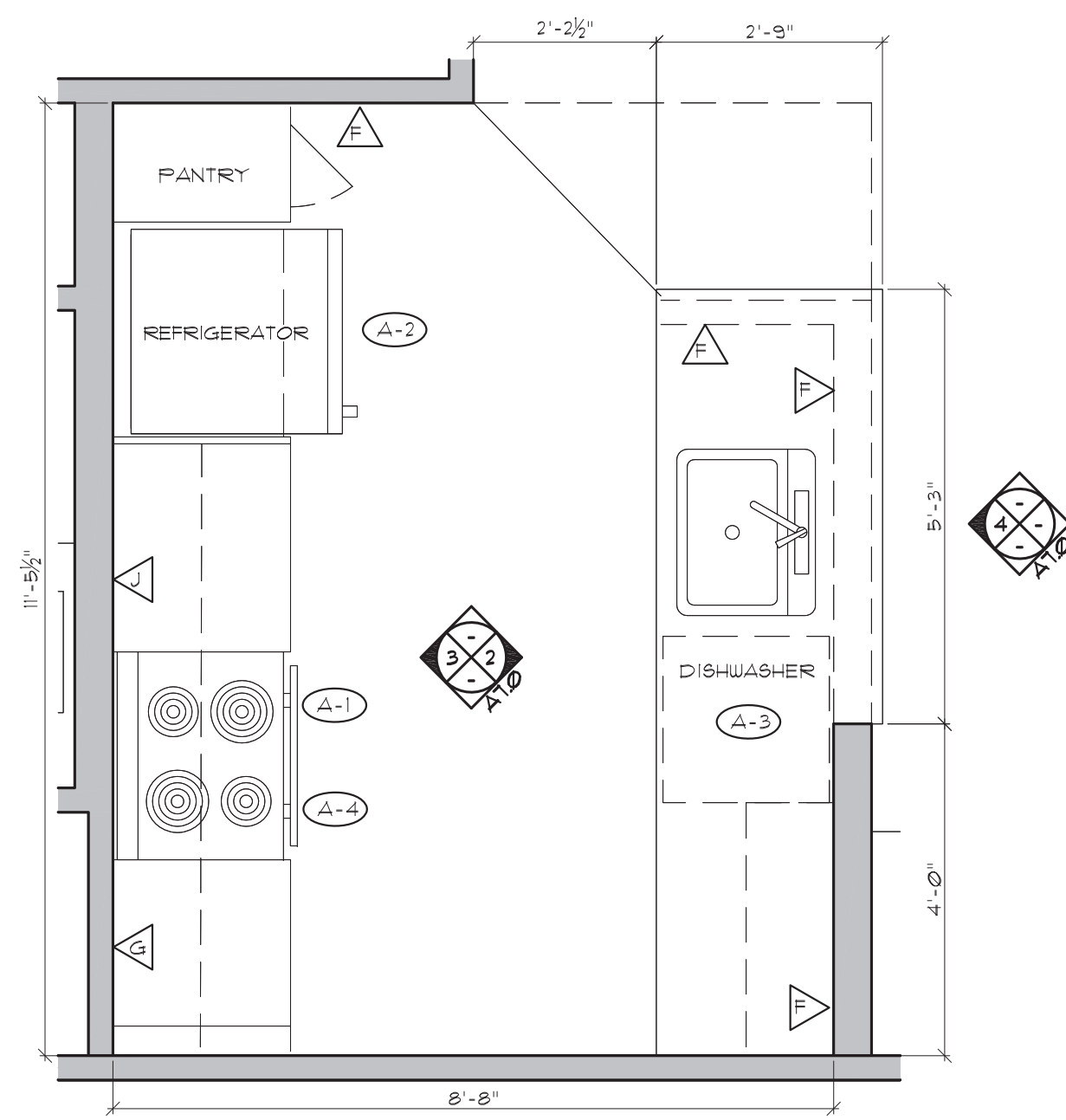
**SECTION DETAIL 7**  
AT PORCH/EAVE  
3" = 1'-0"

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SHEET CONTENTS:  
Details

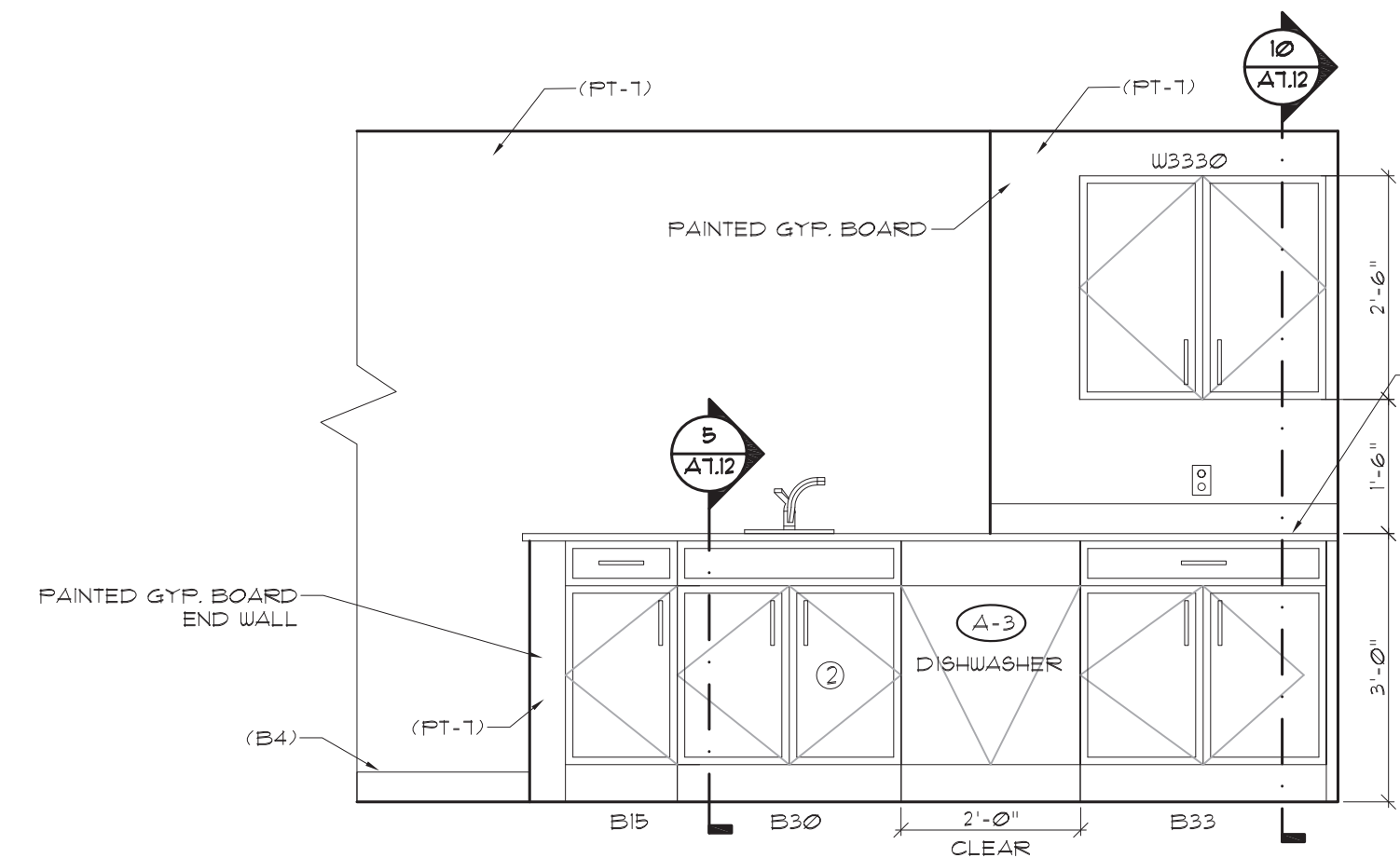
PROJECT # 1420  
DATE: 9/22/2020  
REVISED DATE:  
REVISED: 02/16/2021



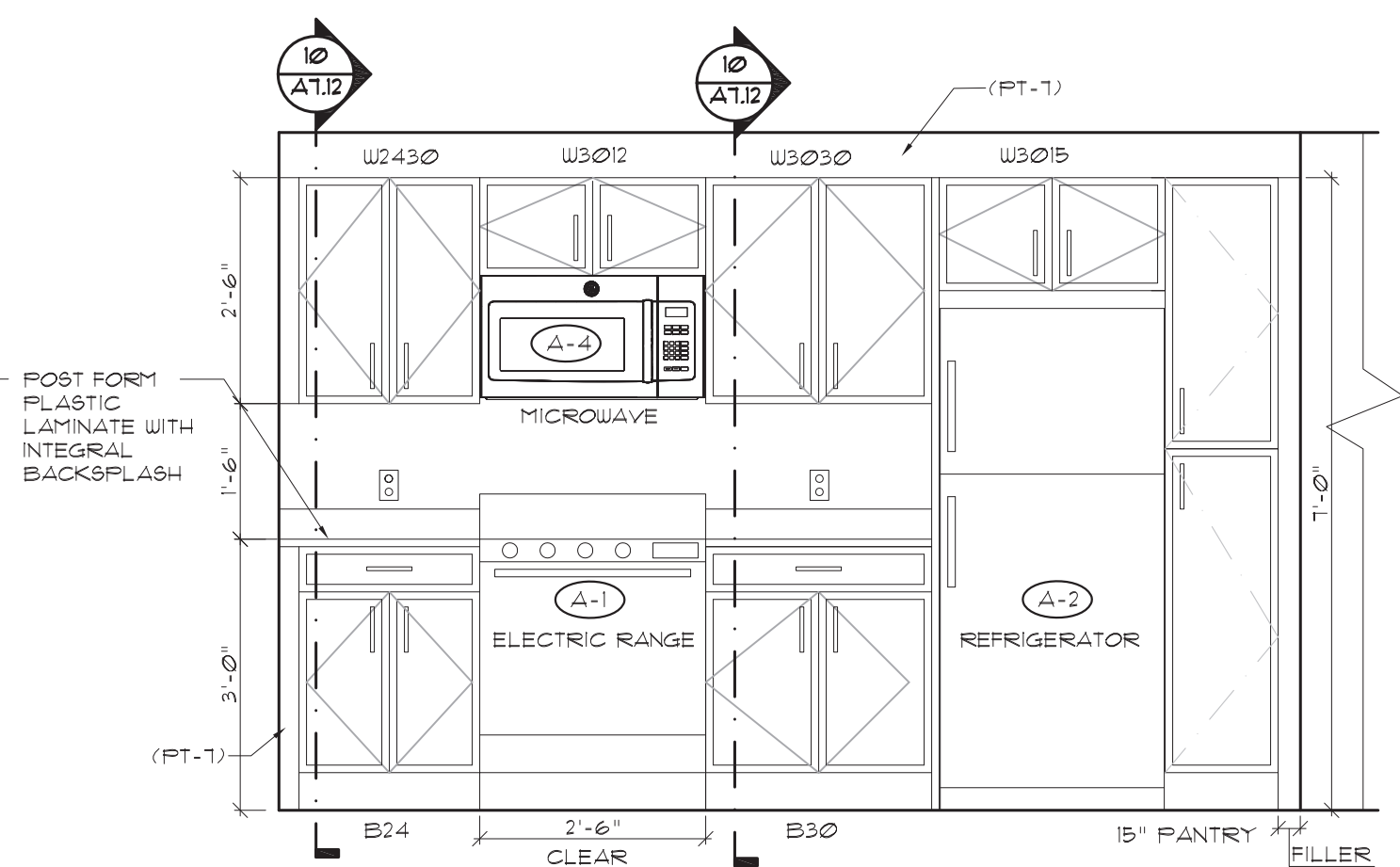
ENLARGED KITCHEN PLAN (1)  
TYPE 1 UNIT PLAN

- FINISH NOTES:**
1. TRANSITION STRIPS AT ALL CHANGES IN FLOORING FINISHES. CHANGE IN LEVEL IN FLOOR SURFACES SHALL NOT EXCEED 1/4" AND SLOPE OF THRESHOLD SHALL NOT BE GREATER THAN 1:2, IN COMPLIANCE WITH THE AMERICAN DISABILITIES ACT
  2. DO NOT PAINT ALUMINUM DOORS
  3. ALL FLOOR FINISHES TO CONTINUE INTO ADJACENT CLOSETS
  4. AT ALL "GROUP 1" AND "GROUP 2A" UNITS PROVIDE IN WALL BLOCKING FOR FUTURE GRAB BARS.
  5. AT ALL ADA UNITS, BATH #1, PROVIDE AND INSTALL GRAB BARS AS INDICATED ON DRAWINGS.
  6. AT ALL ADA UNITS, BATH #2, PROVIDE IN-WALL WOOD BLOCKING AS INDICATED FOR FUTURE INSTALLATION OF GRAB BARS.
  7. REFER TO ACCESSORY AND APPLIANCE SCHEDULES ON A82

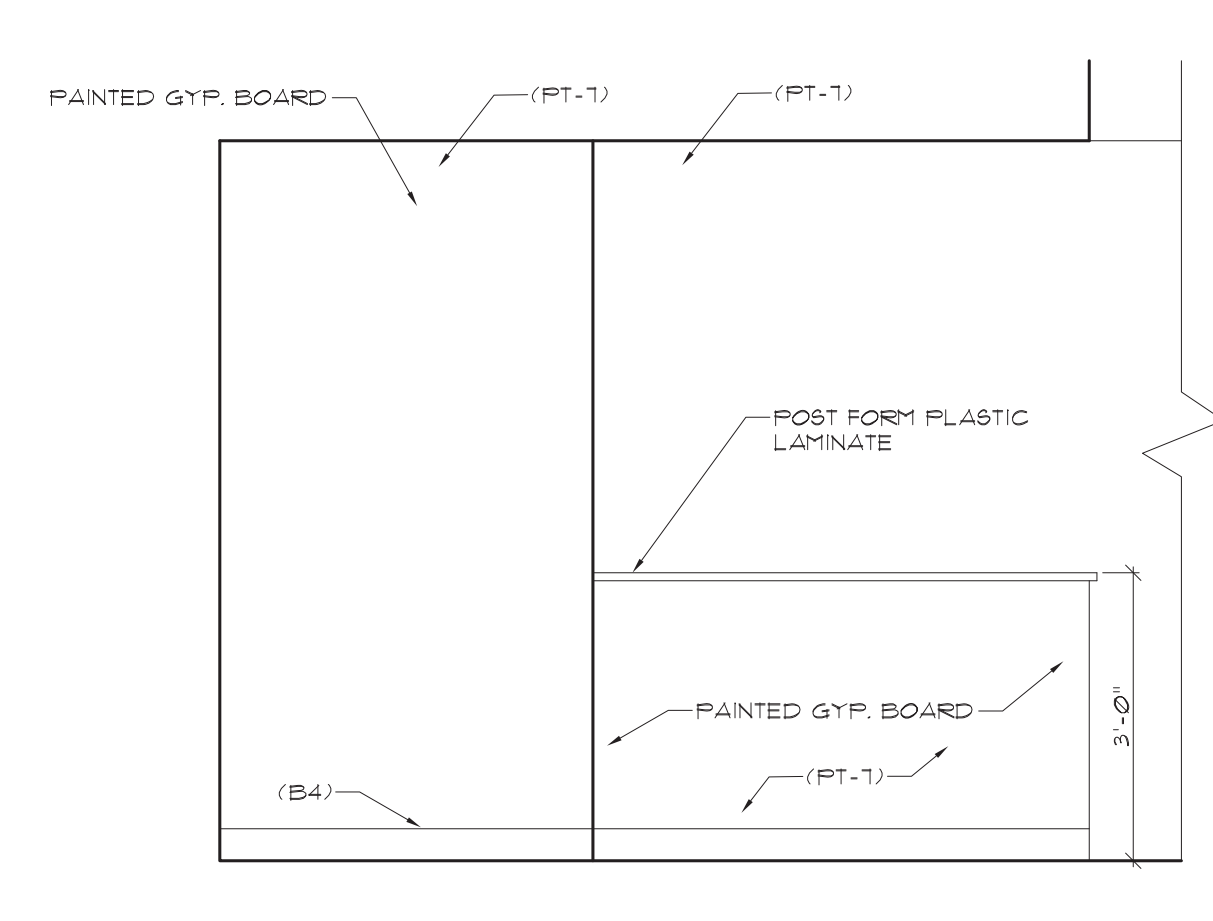
- KEY NOTES:**
1. PROVIDE IN WALL BLOCKING FOR FUTURE GRAB BARS.
  2. PROVIDE REMOVABLE CABINETS, RUN FLOOR AND WALL FINISHES UNDER COUNTERTOPS/ CABINETS



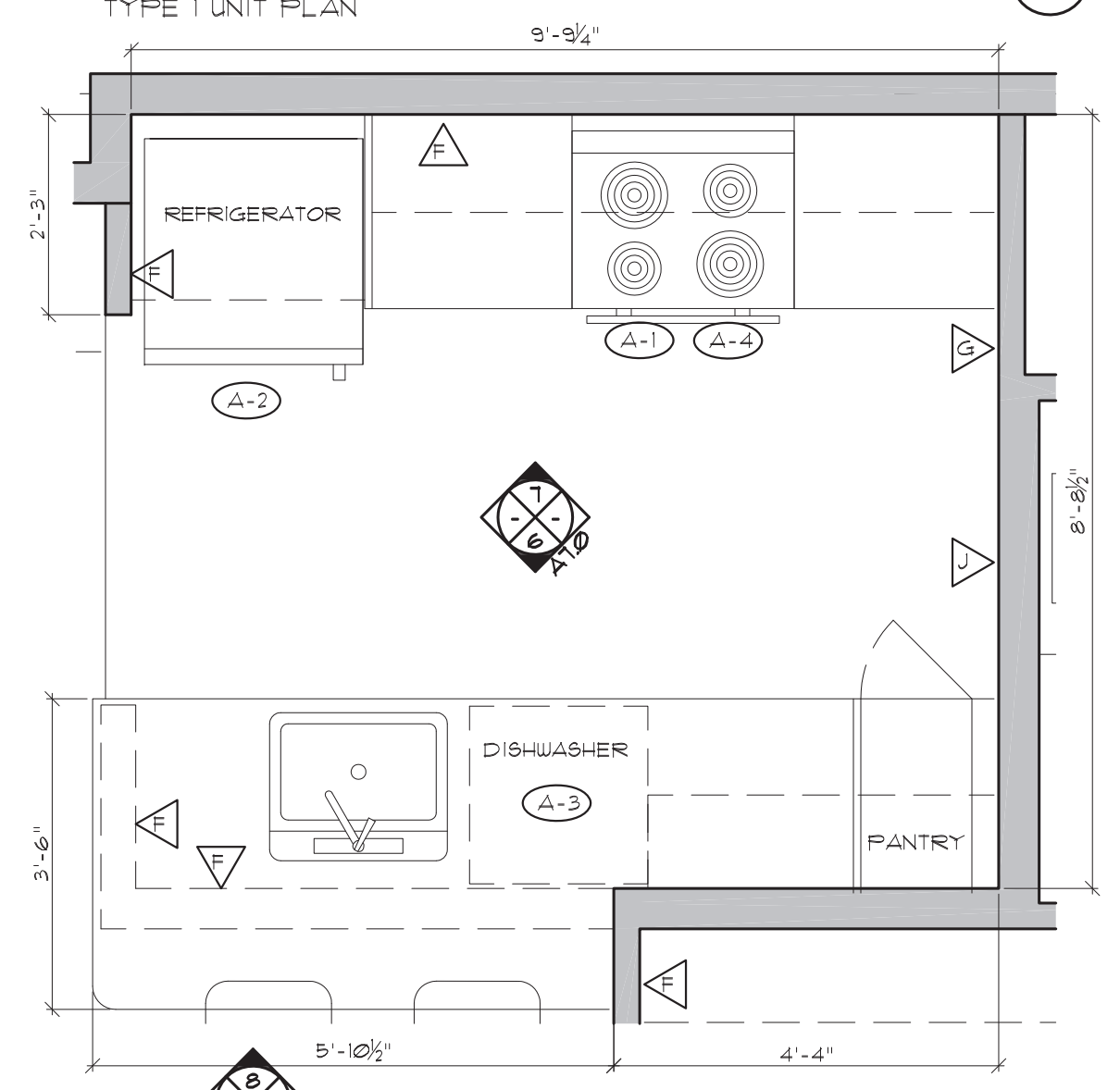
KITCHEN ELEVATIONS (2)



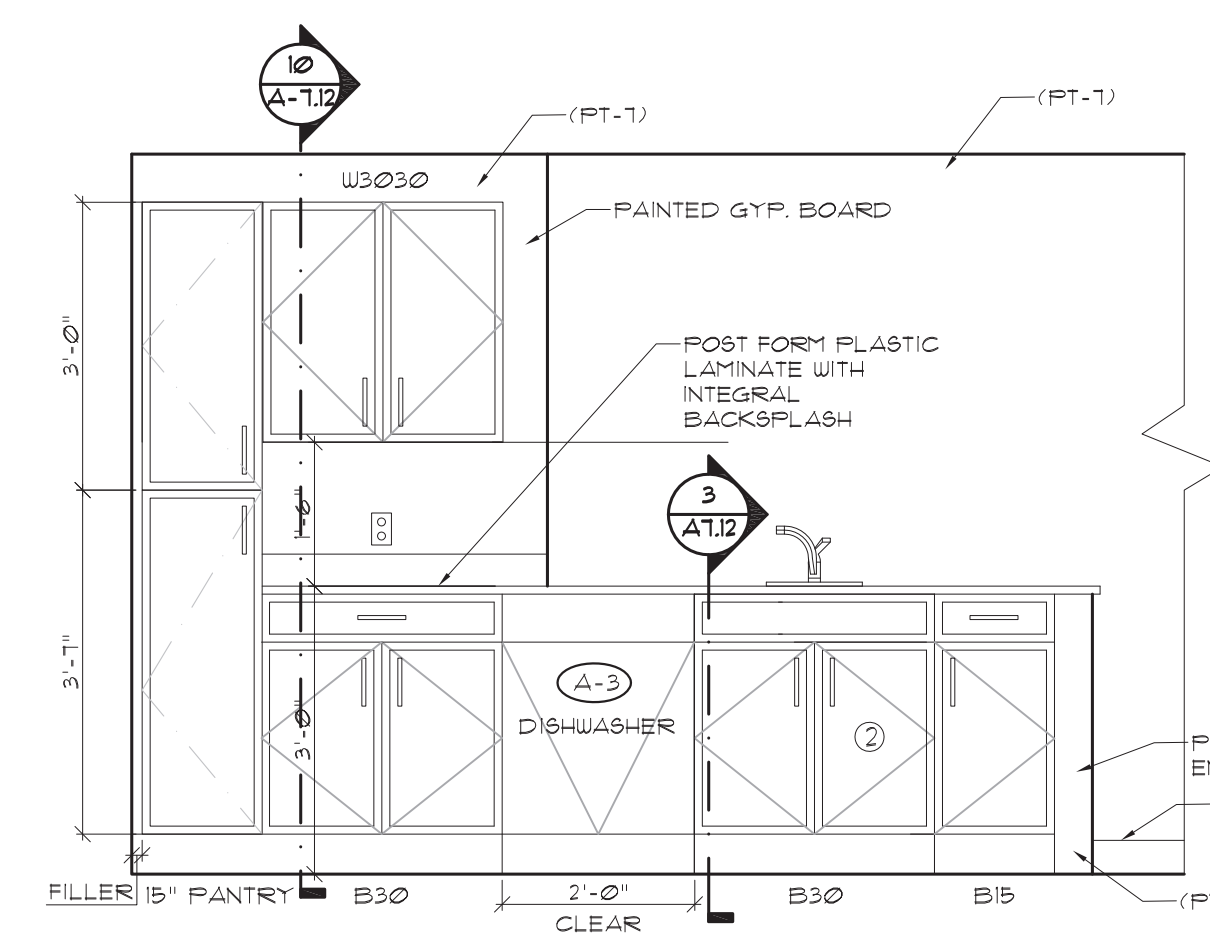
(3)



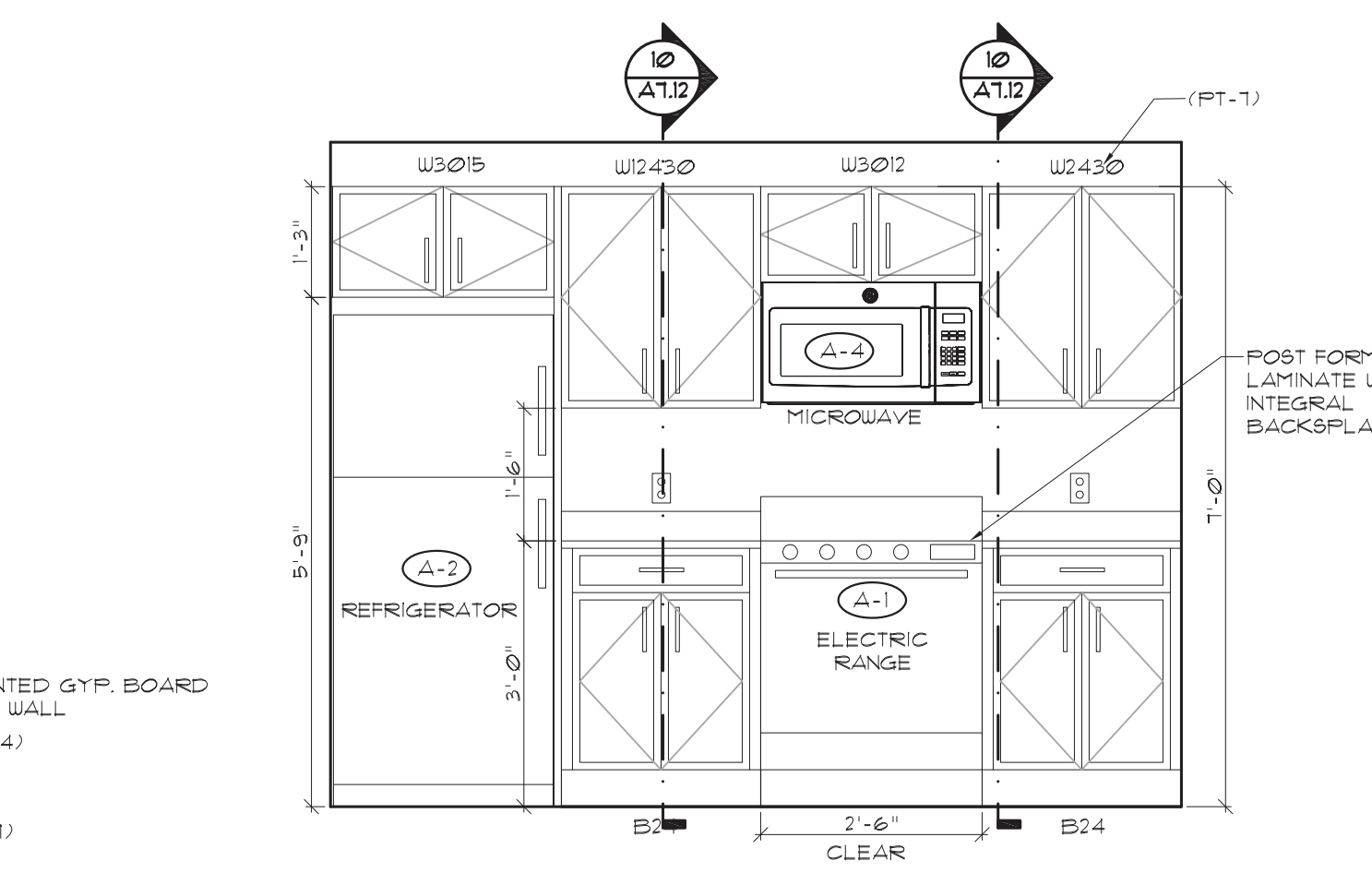
(4) 1/2" = 1'-0"



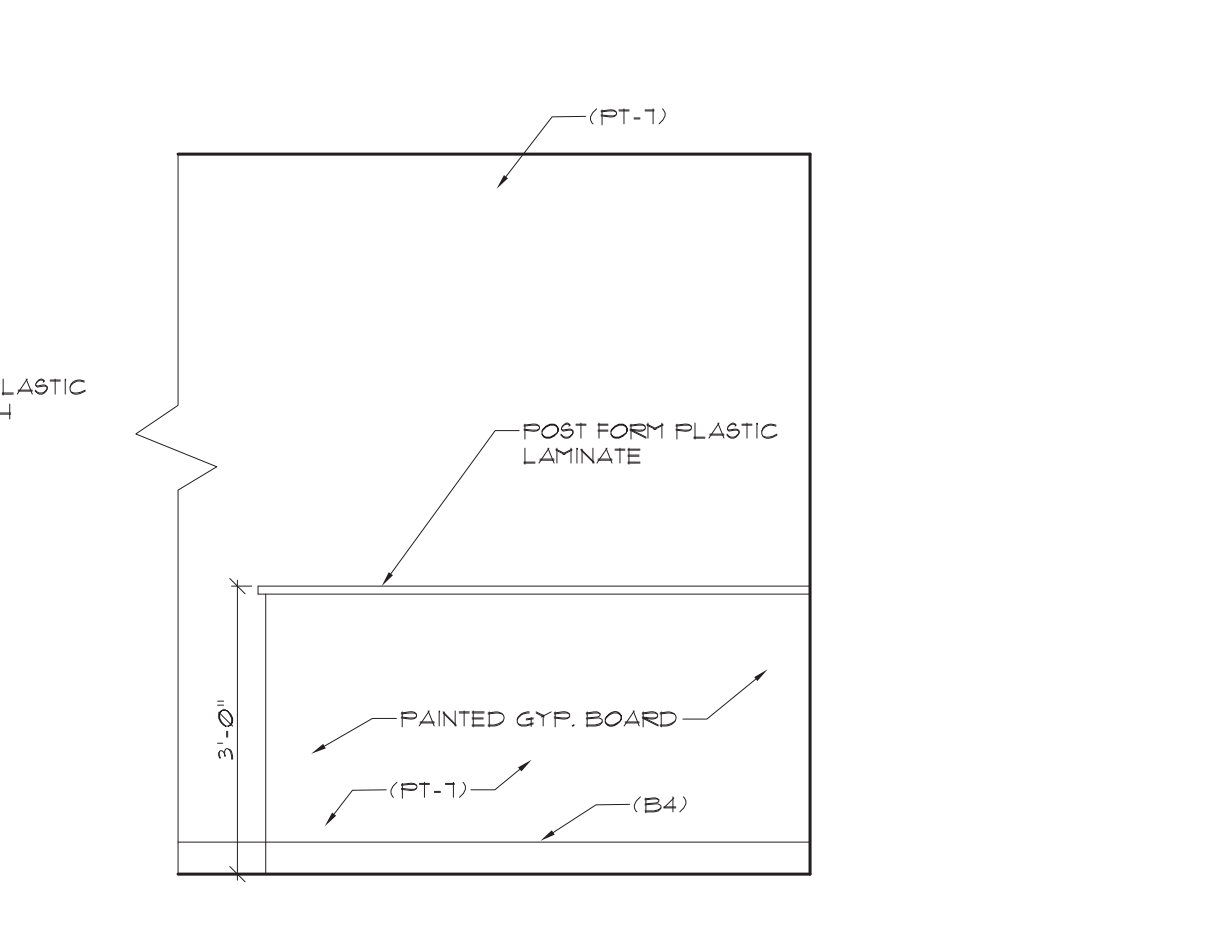
ENLARGED KITCHEN PLAN (5)  
TYPE 2 UNIT PLAN



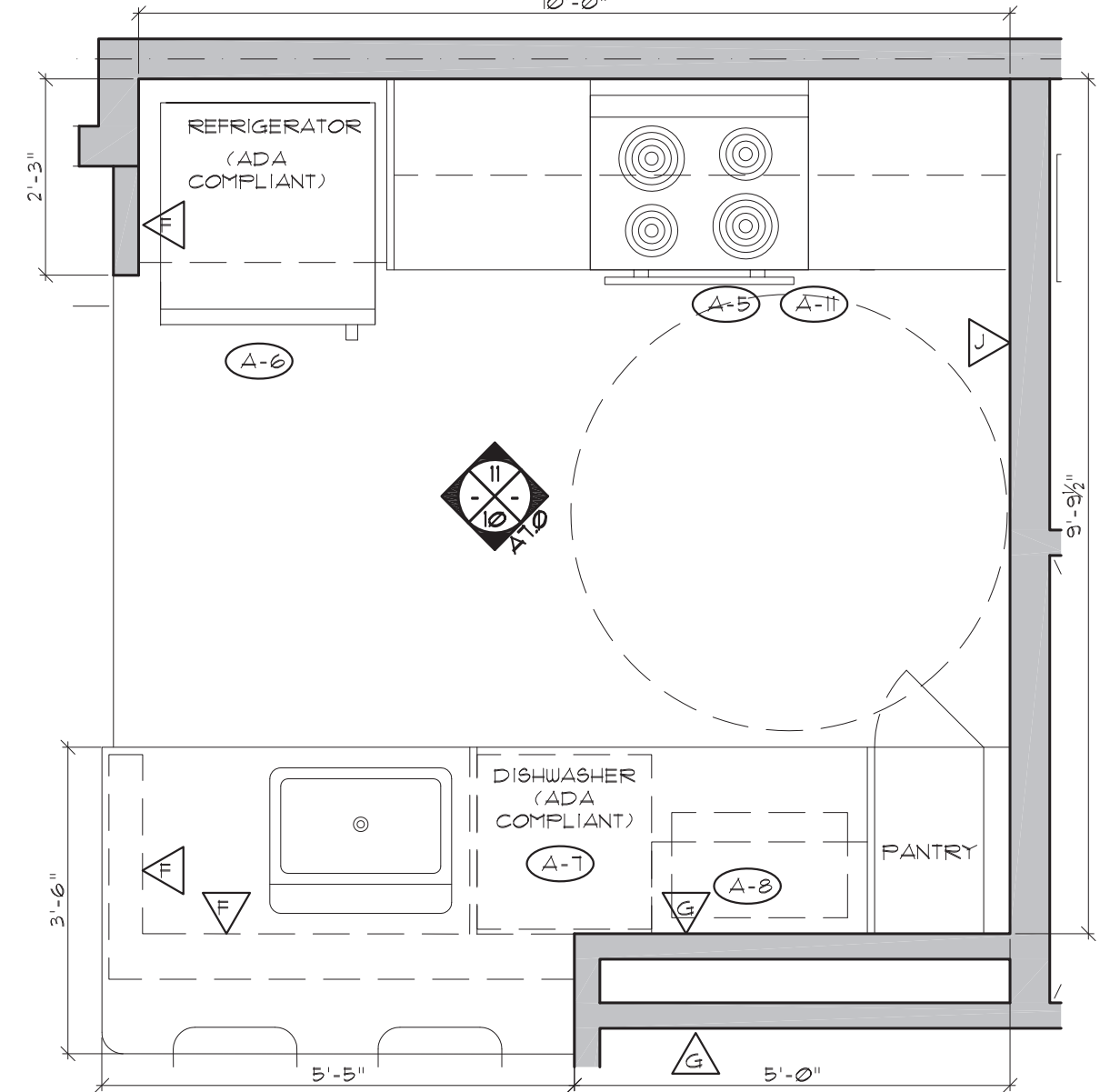
KITCHEN ELEVATIONS (6)



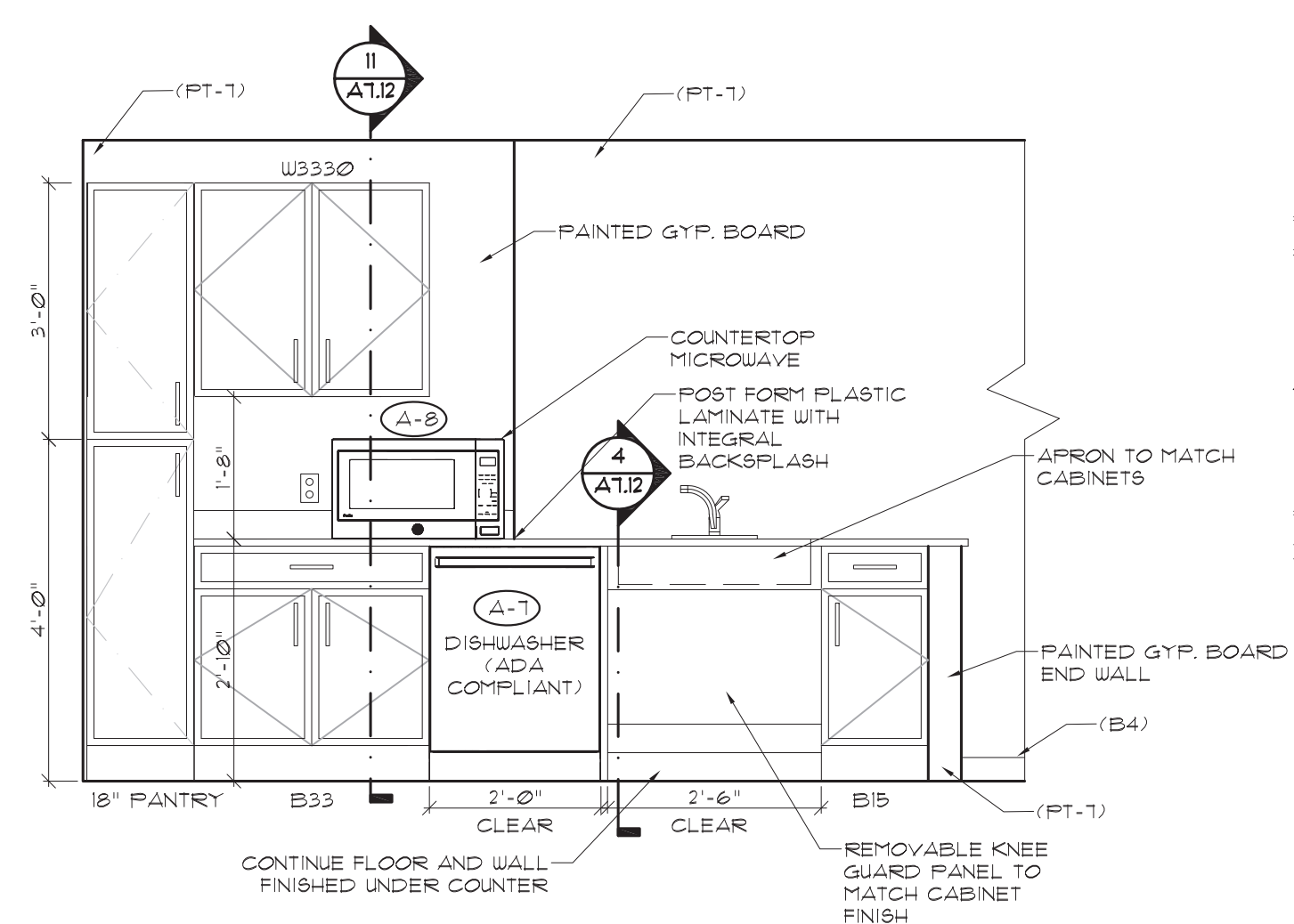
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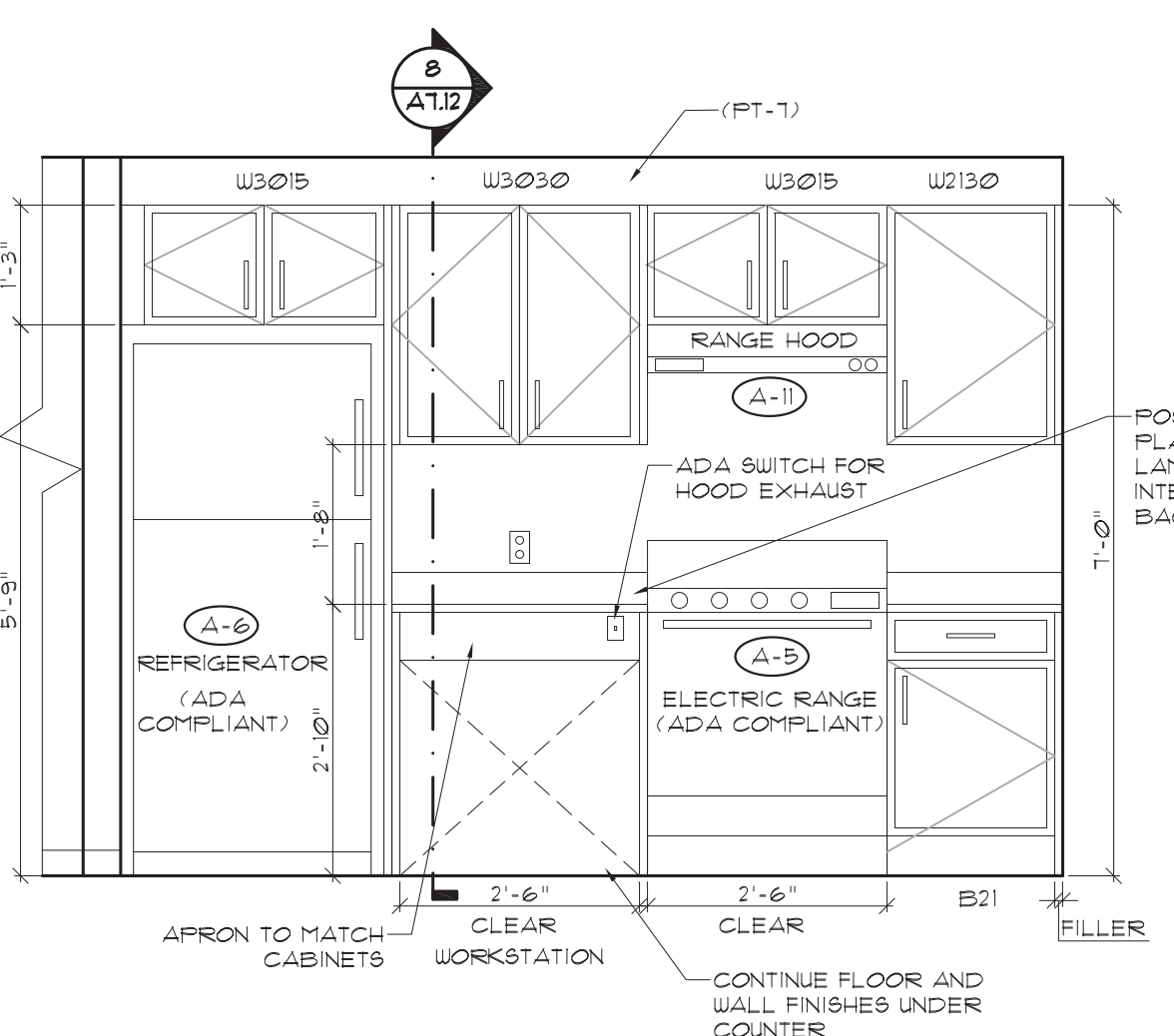
(8) 1/2" = 1'-0"



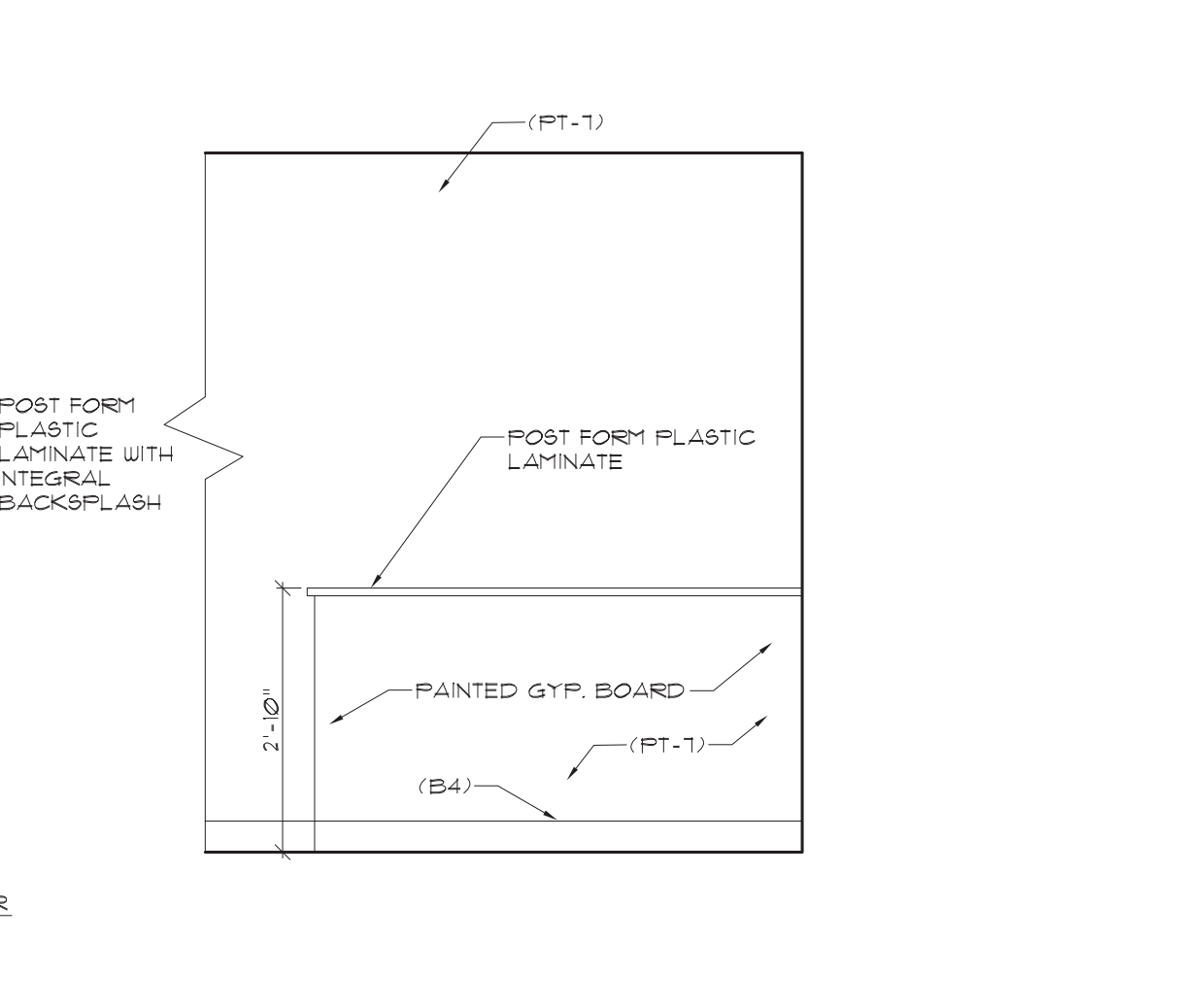
ENLARGED KITCHEN PLAN (9)  
TYPE 2J UNIT PLAN - FULLY ACCESSIBLE (ADA)



KITCHEN ELEVATIONS (10)



(11)



(12) 1/2" = 1'-0"



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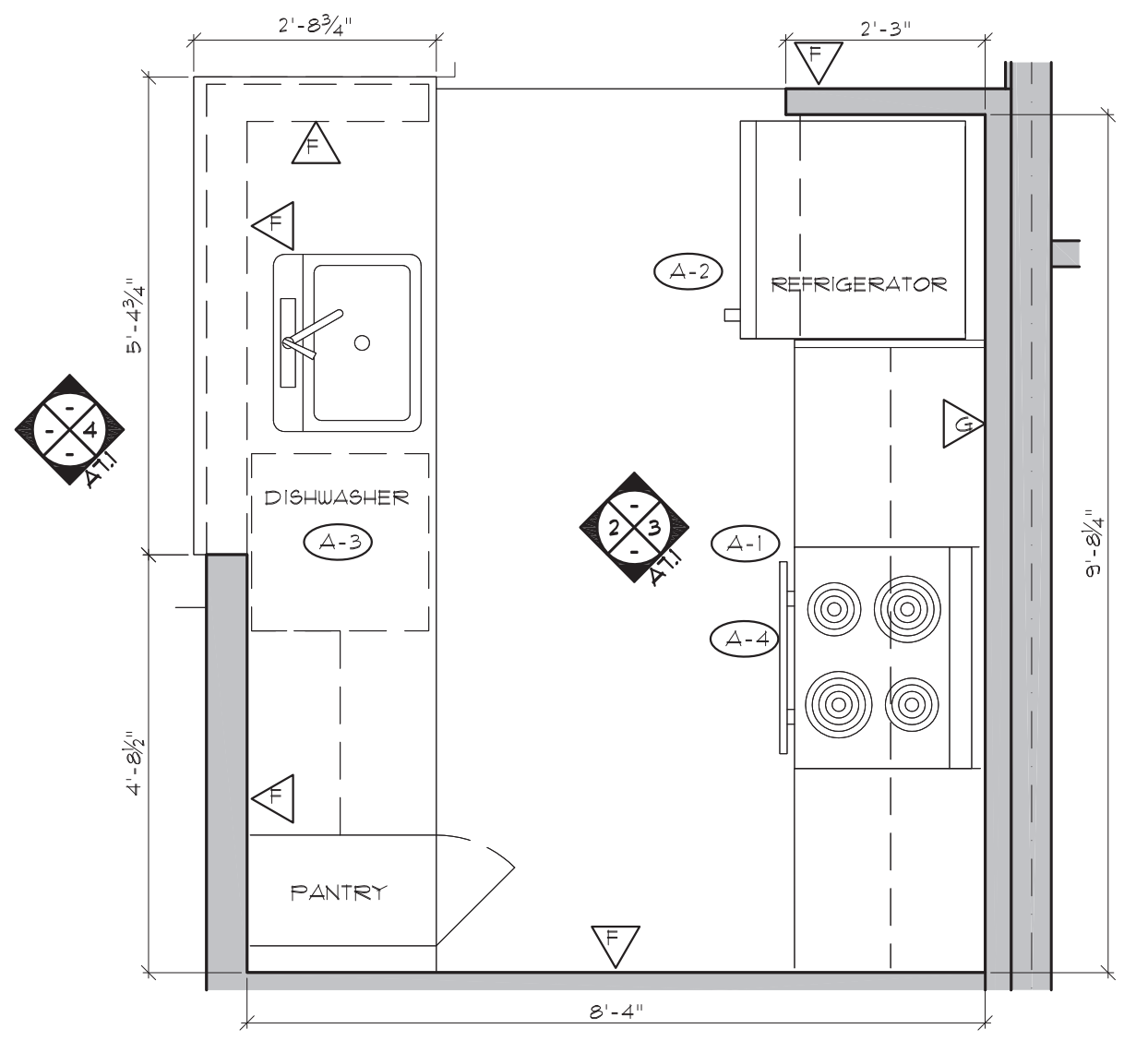
**FINISH NOTES:**

1. TRANSITION STRIPS AT ALL CHANGES IN FLOORING FINISHES. CHANGE IN LEVEL IN FLOOR SURFACES SHALL NOT EXCEED 1/4" AND SLOPE OF THRESHOLD SHALL NOT BE GREATER THAN 1:2, IN COMPLIANCE WITH THE AMERICAN DISABILITIES ACT
2. DO NOT PAINT ALUMINUM DOORS
3. ALL FLOOR FINISHES TO CONTINUE INTO ADJACENT CLOSETS
4. AT ALL 'GROUP 1' AND 'GROUP 2A' UNITS PROVIDE IN WALL BLOCKING FOR FUTURE GRAB BARS.
5. AT ALL ADA UNITS: BATH #1, PROVIDE AND INSTALL GRAB BARS AS INDICATED ON DRAWINGS.
6. AT ALL ADA UNITS: BATH #2, PROVIDE IN-WALL WOOD BLOCKING AS INDICATED FOR FUTURE INSTALLATION OF GRAB BARS.

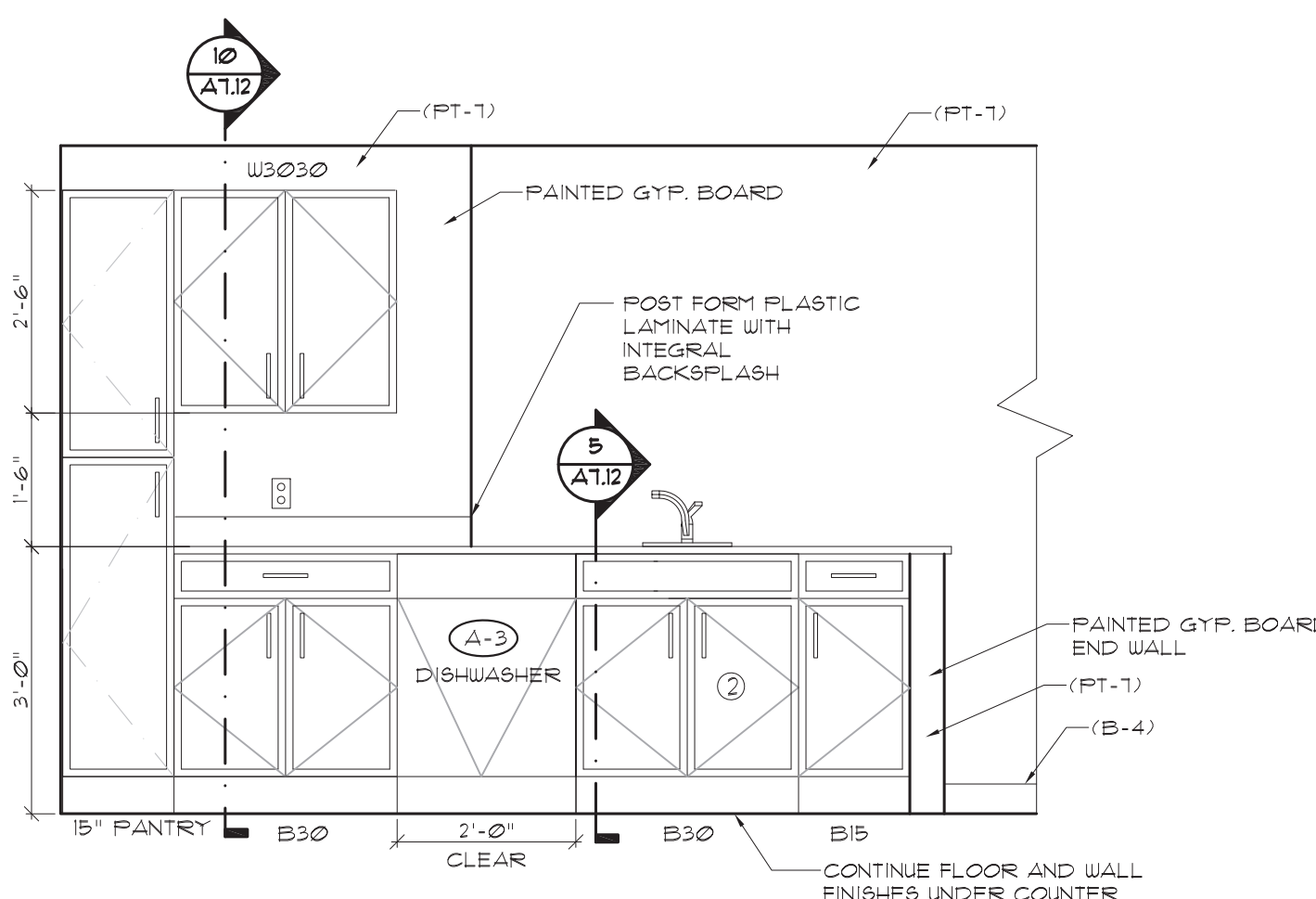
1. REFER TO ACCESSORY AND APPLIANCE SCHEDULES ON A8.2

**KEY NOTES:**

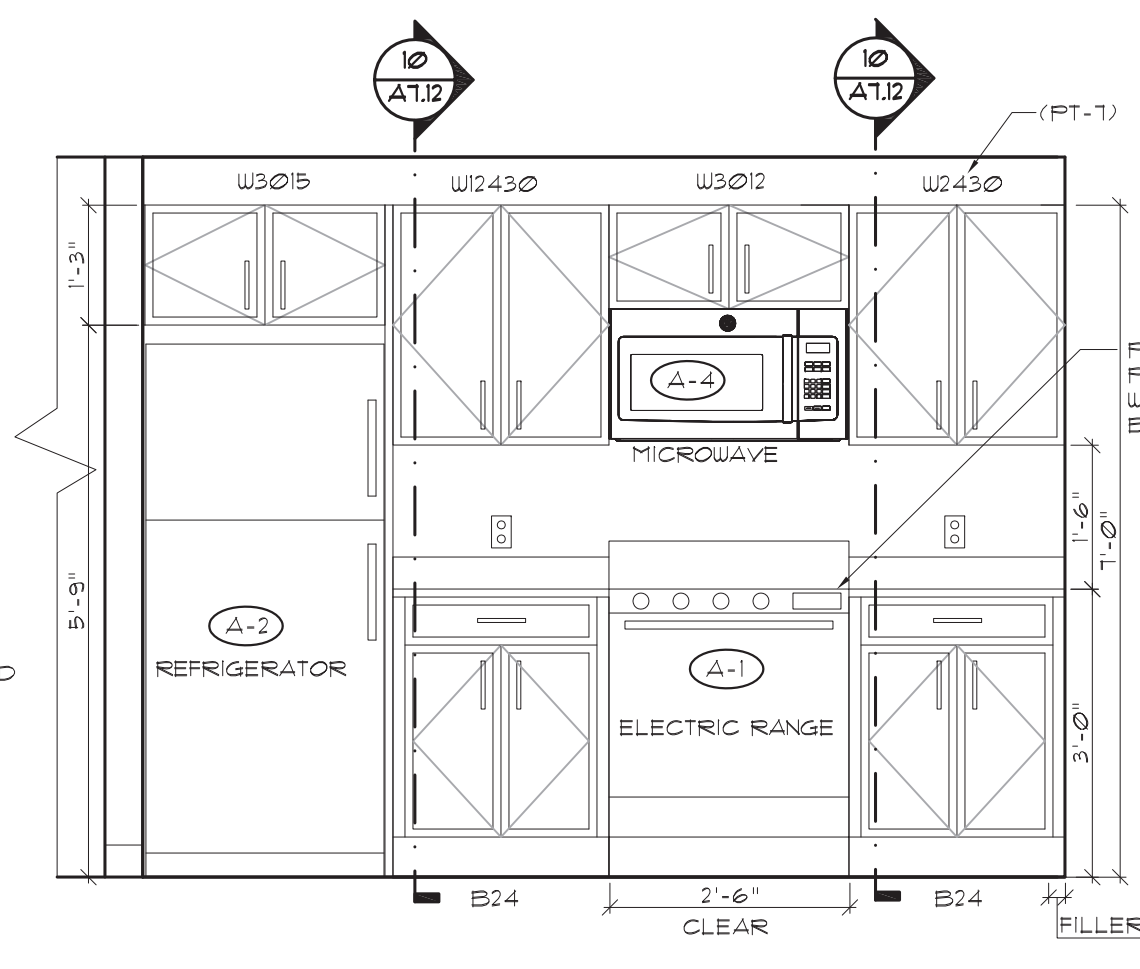
1. PROVIDE IN WALL BLOCKING FOR FUTURE GRAB BARS.
2. PROVIDE REMOVABLE CABINETS, RUN FLOOR AND WALL FINISHES UNDER COUNTERTOPS/ CABINETS



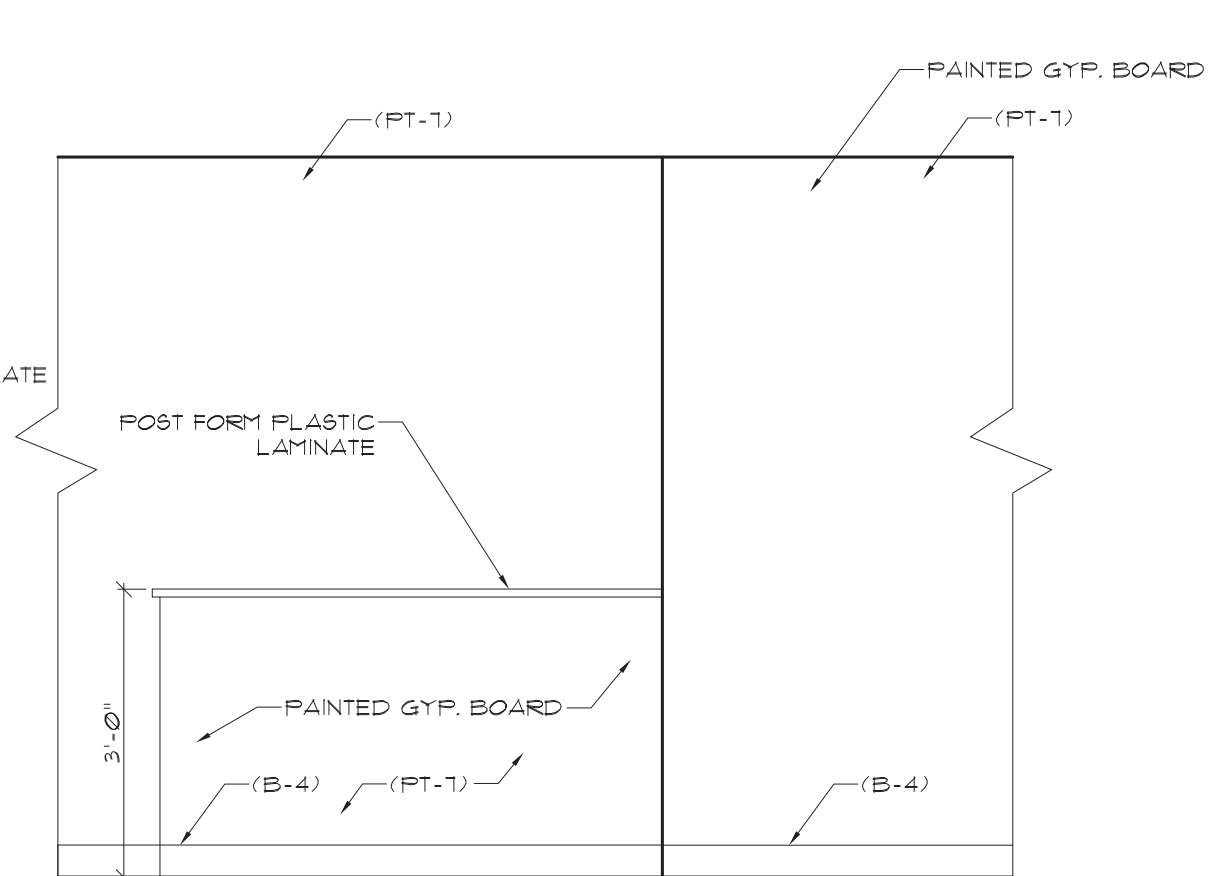
**ENLARGED KITCHEN PLAN 1**  
TYPE 3 UNIT PLAN - GROUP 1



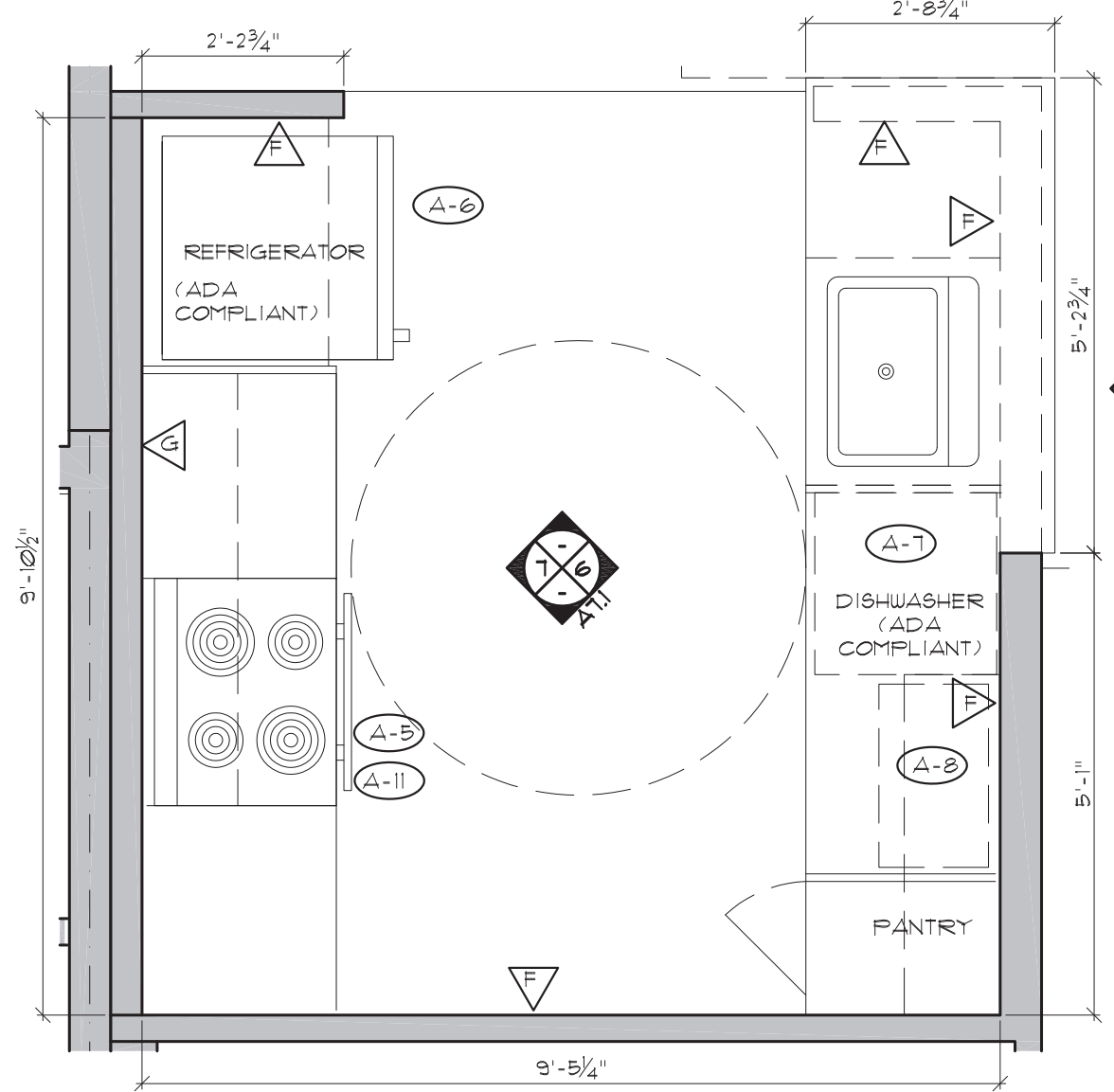
**KITCHEN ELEVATIONS 2**



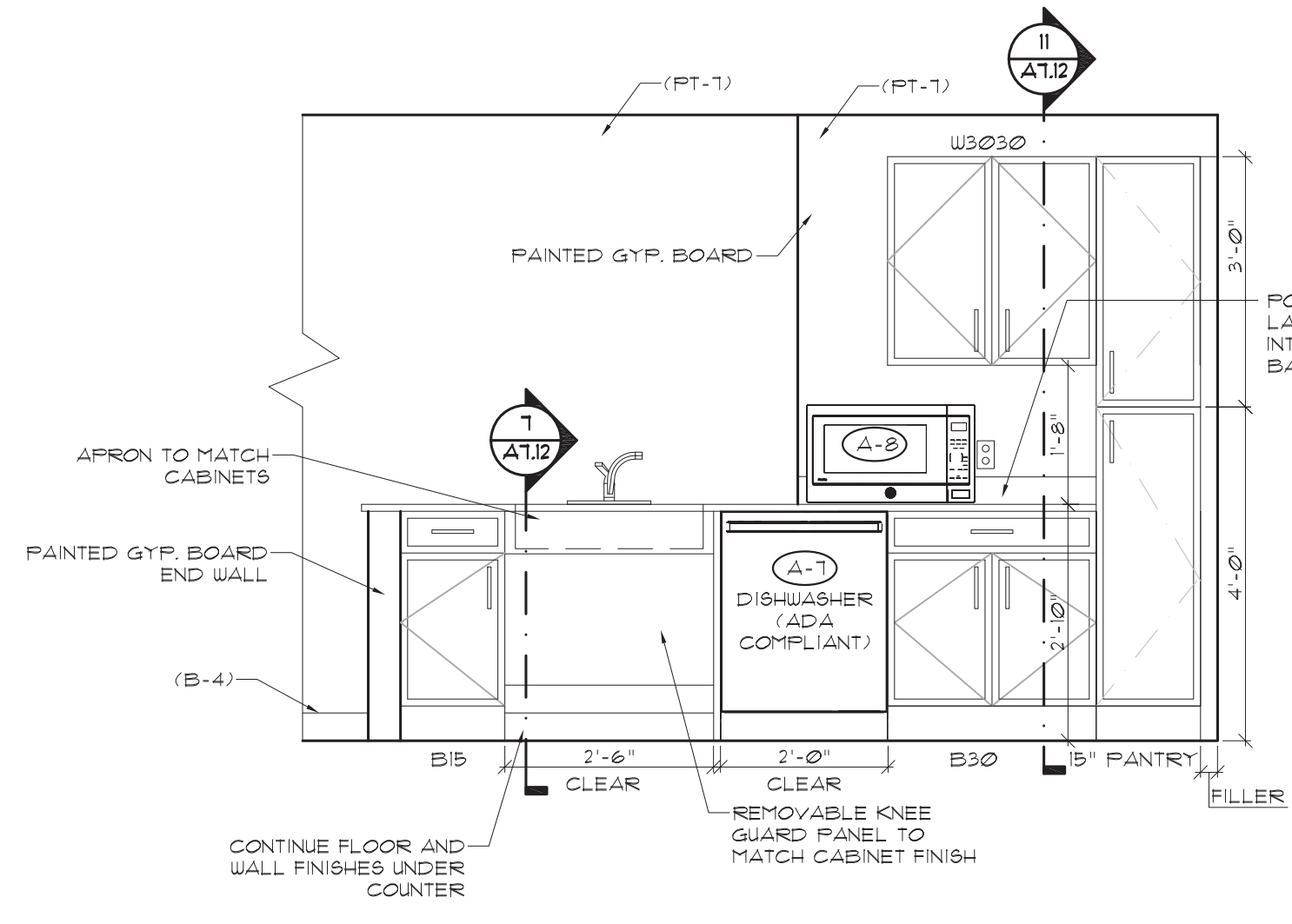
**3**



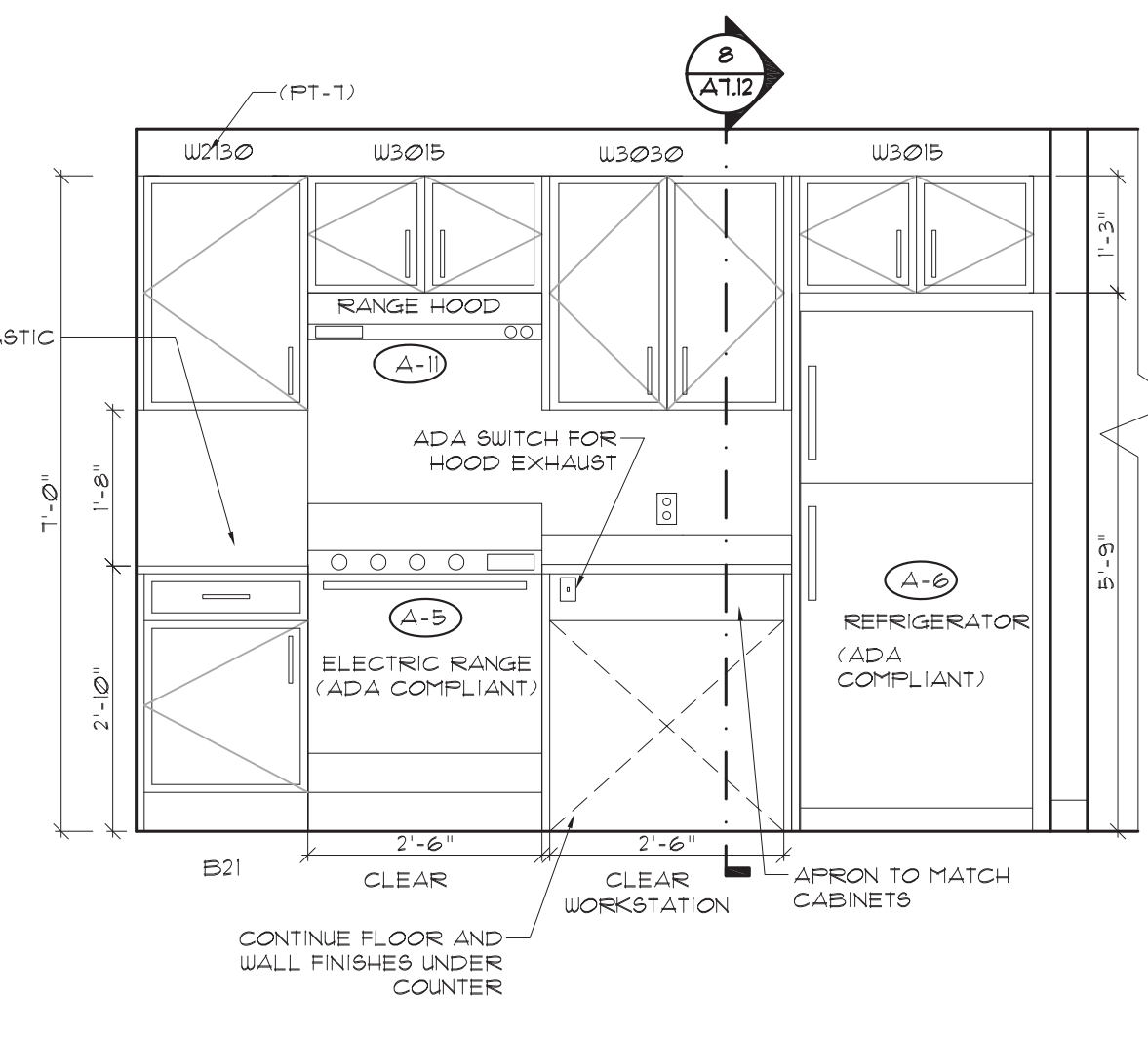
**4** 1/2" = 1'-0"



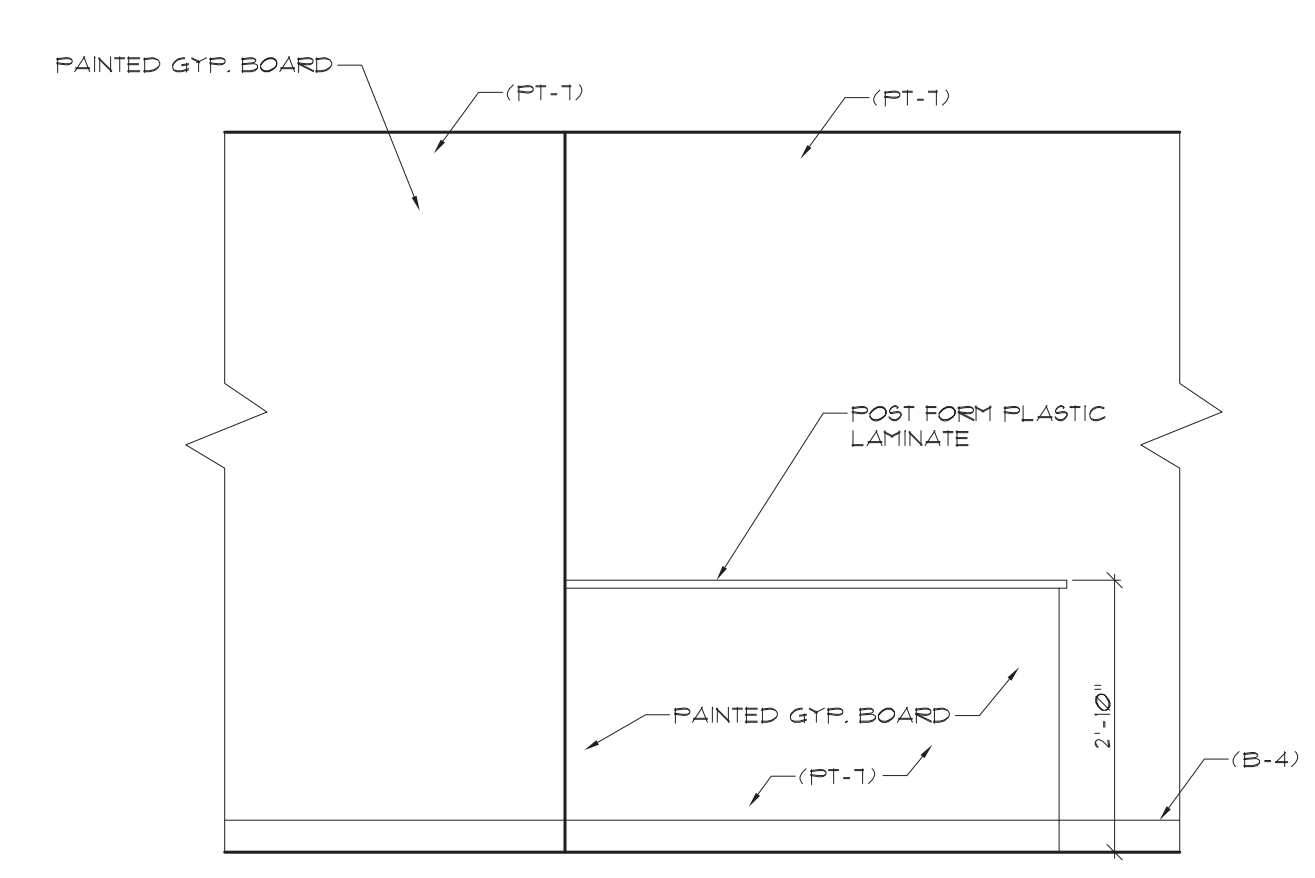
**ENLARGED KITCHEN PLAN 5**  
TYPE 3 UNIT PLAN - FULLY ACCESSIBLE (ADA)



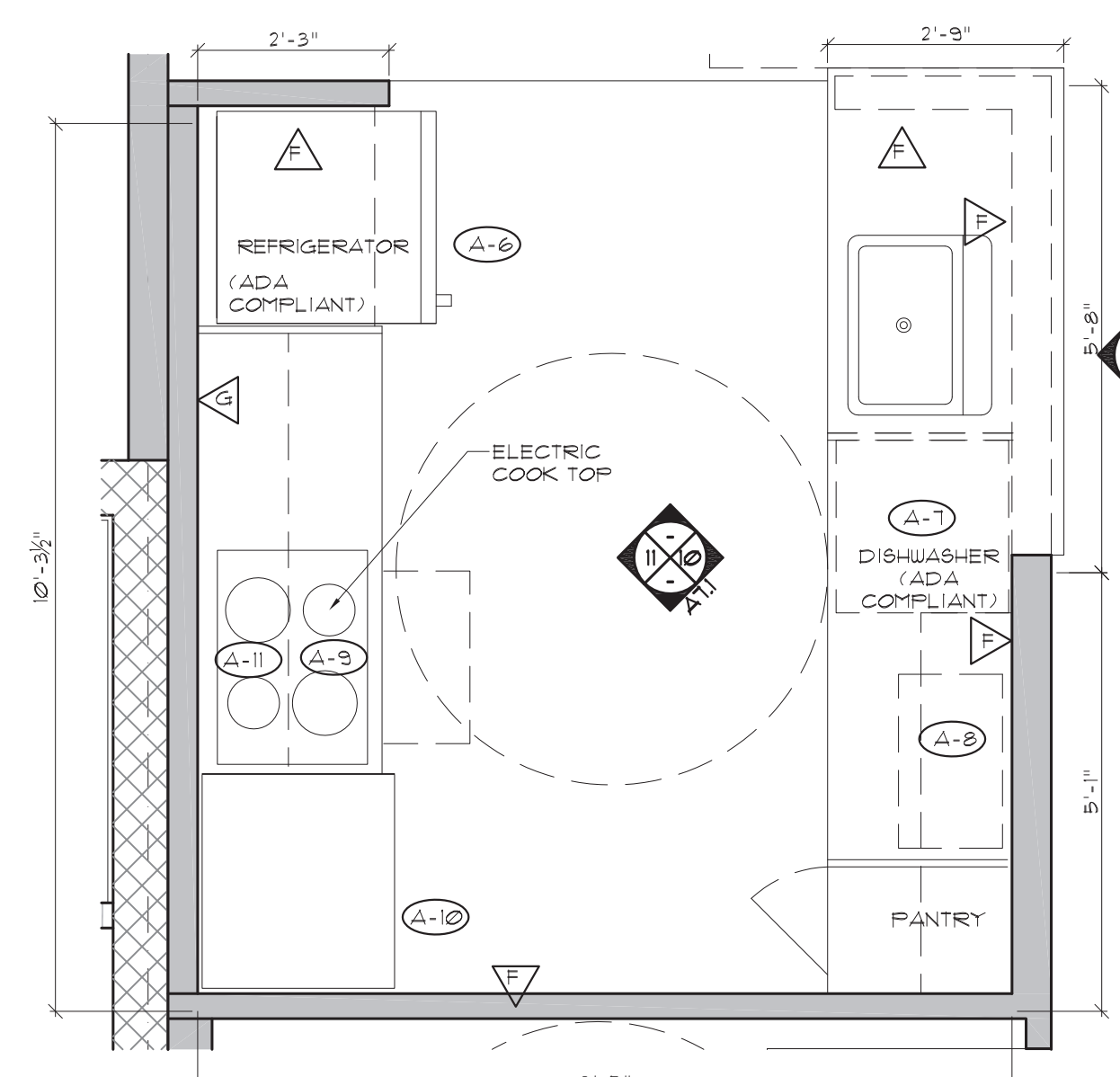
**KITCHEN ELEVATIONS 6**



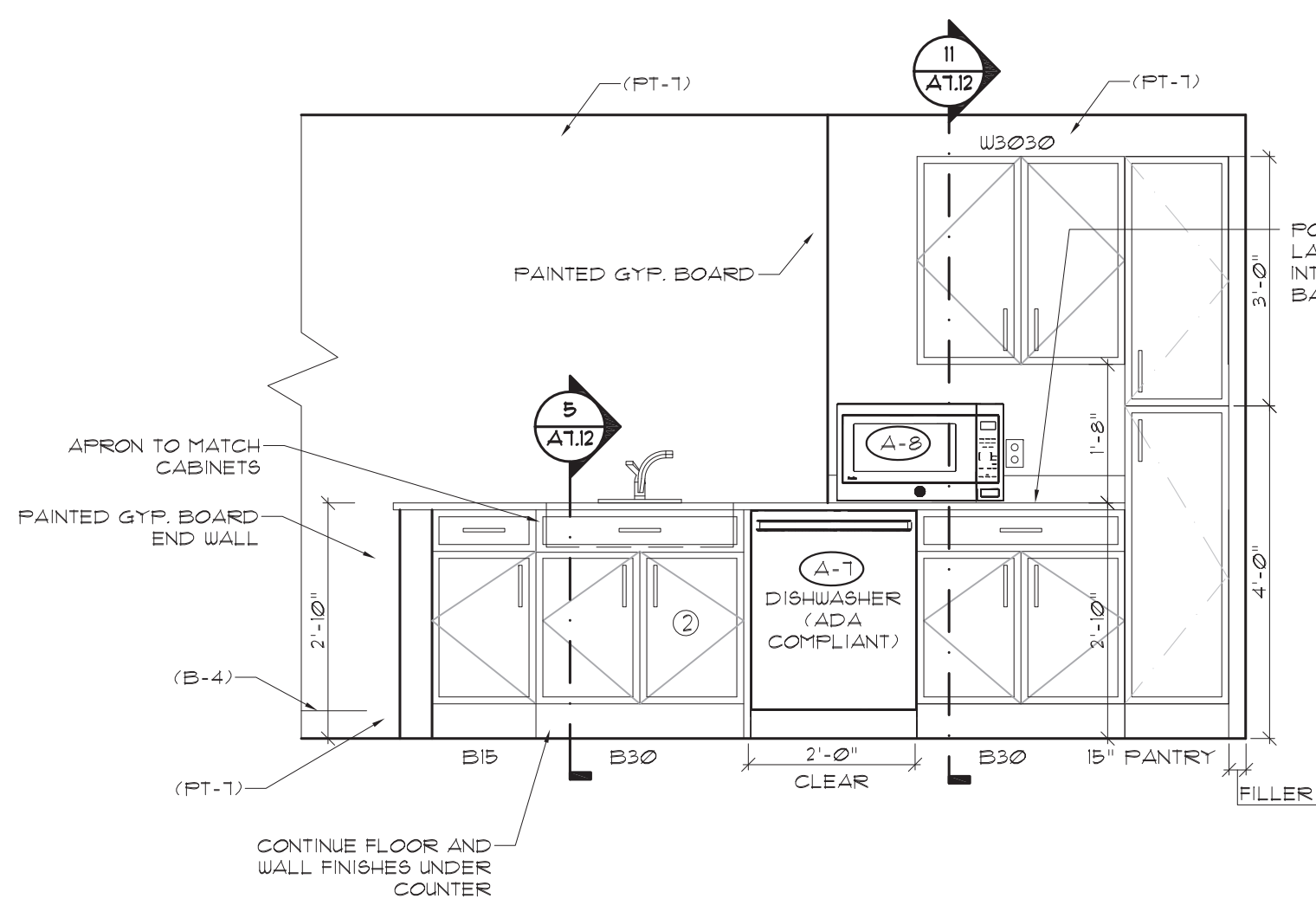
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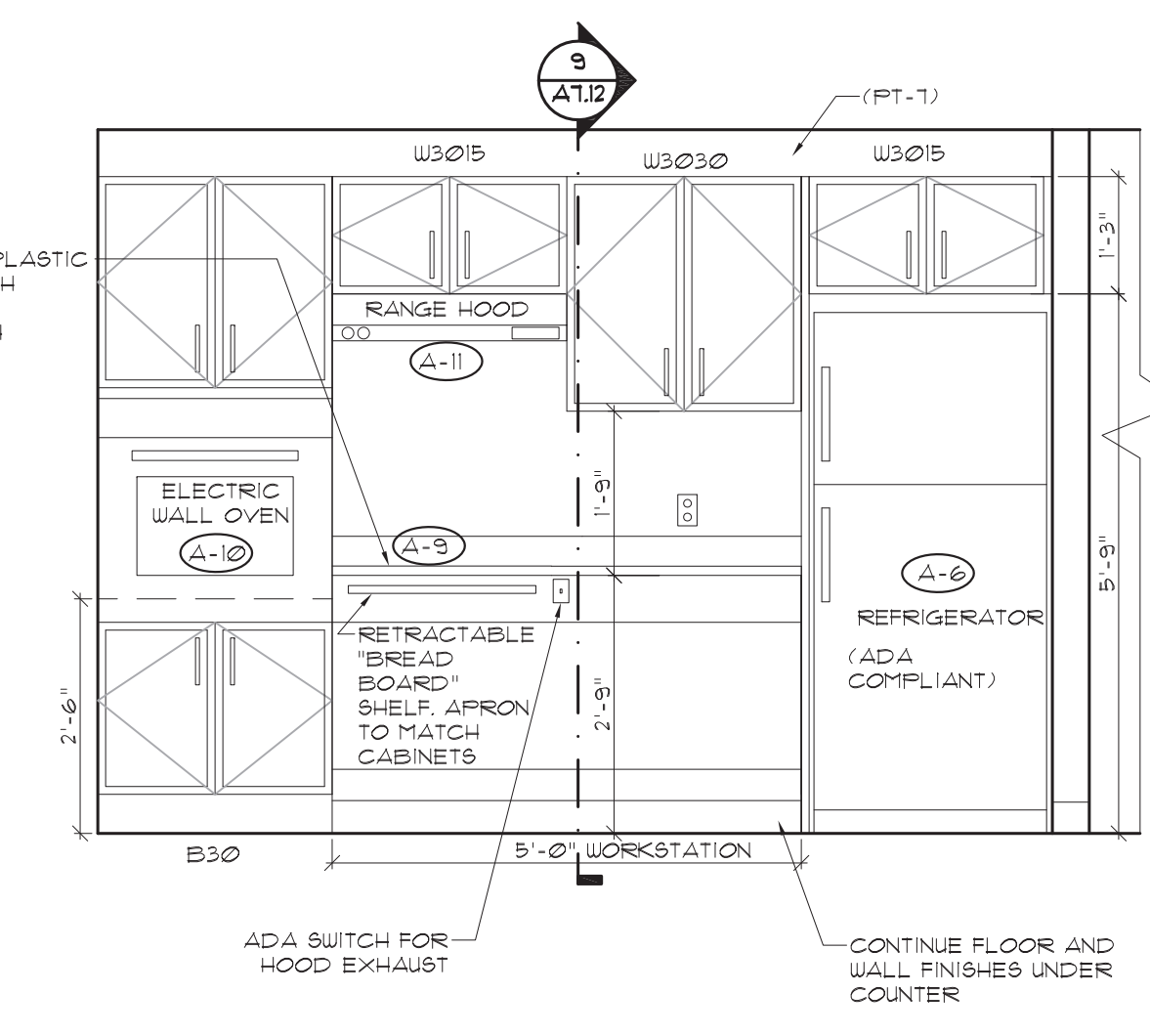
**8** 1/2" = 1'-0"



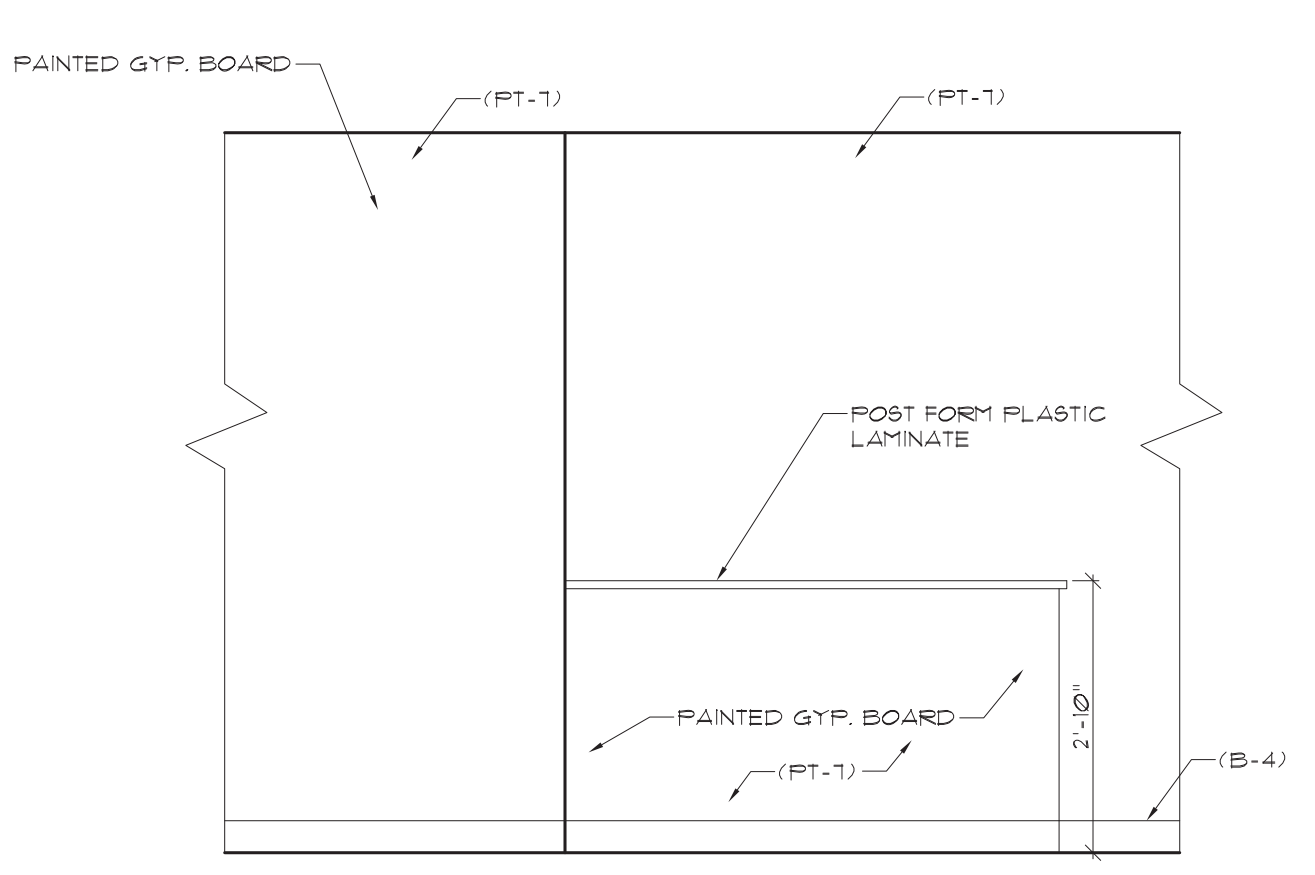
**ENLARGED KITCHEN PLAN 10**  
TYPE 32 UNIT PLAN - ACCESSIBLE GROUP 2A



**KITCHEN ELEVATIONS 10**



**11**



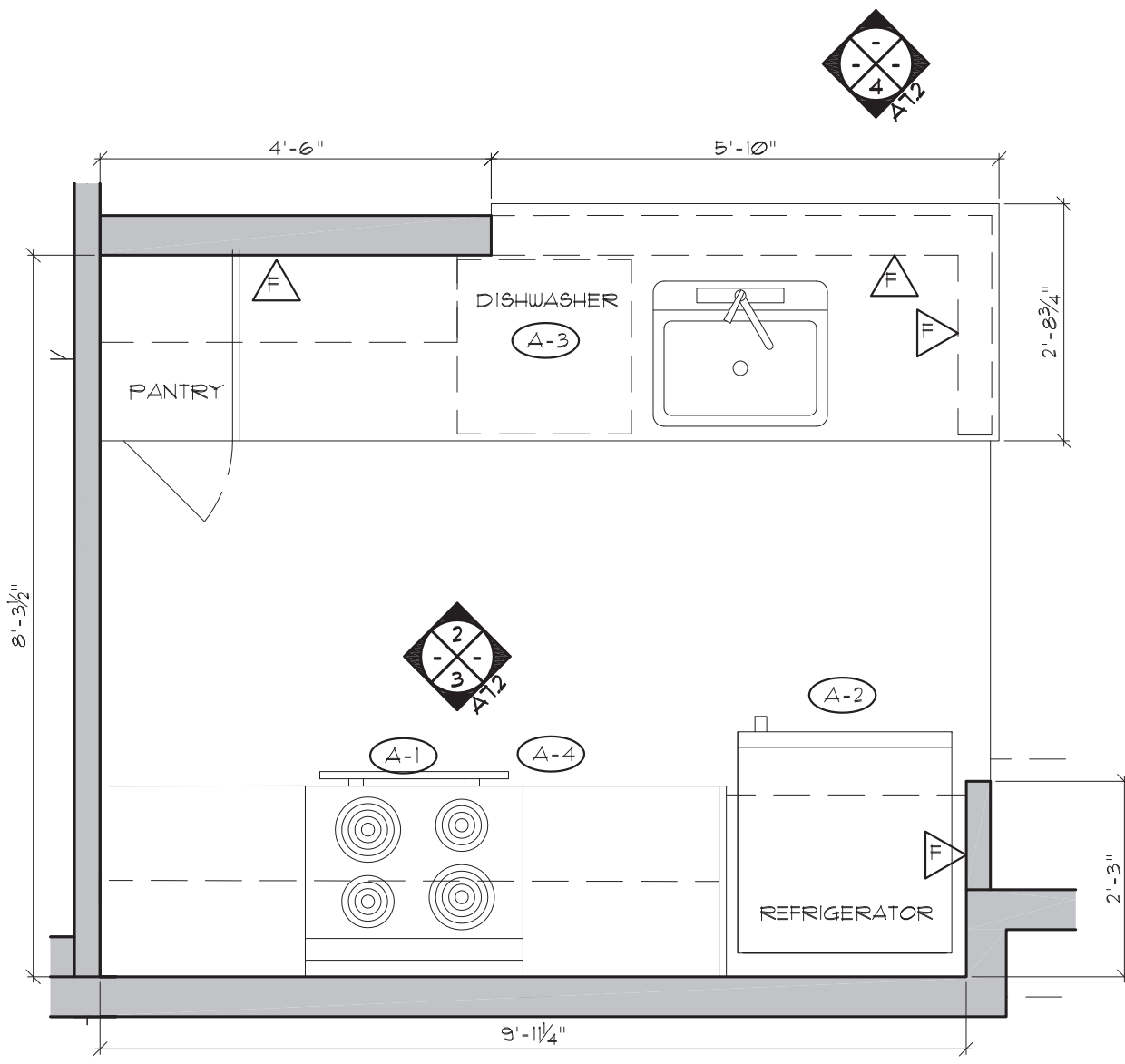
**12** 1/2" = 1'-0"

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**SHEET CONTENTS:**  
Interior Elevations

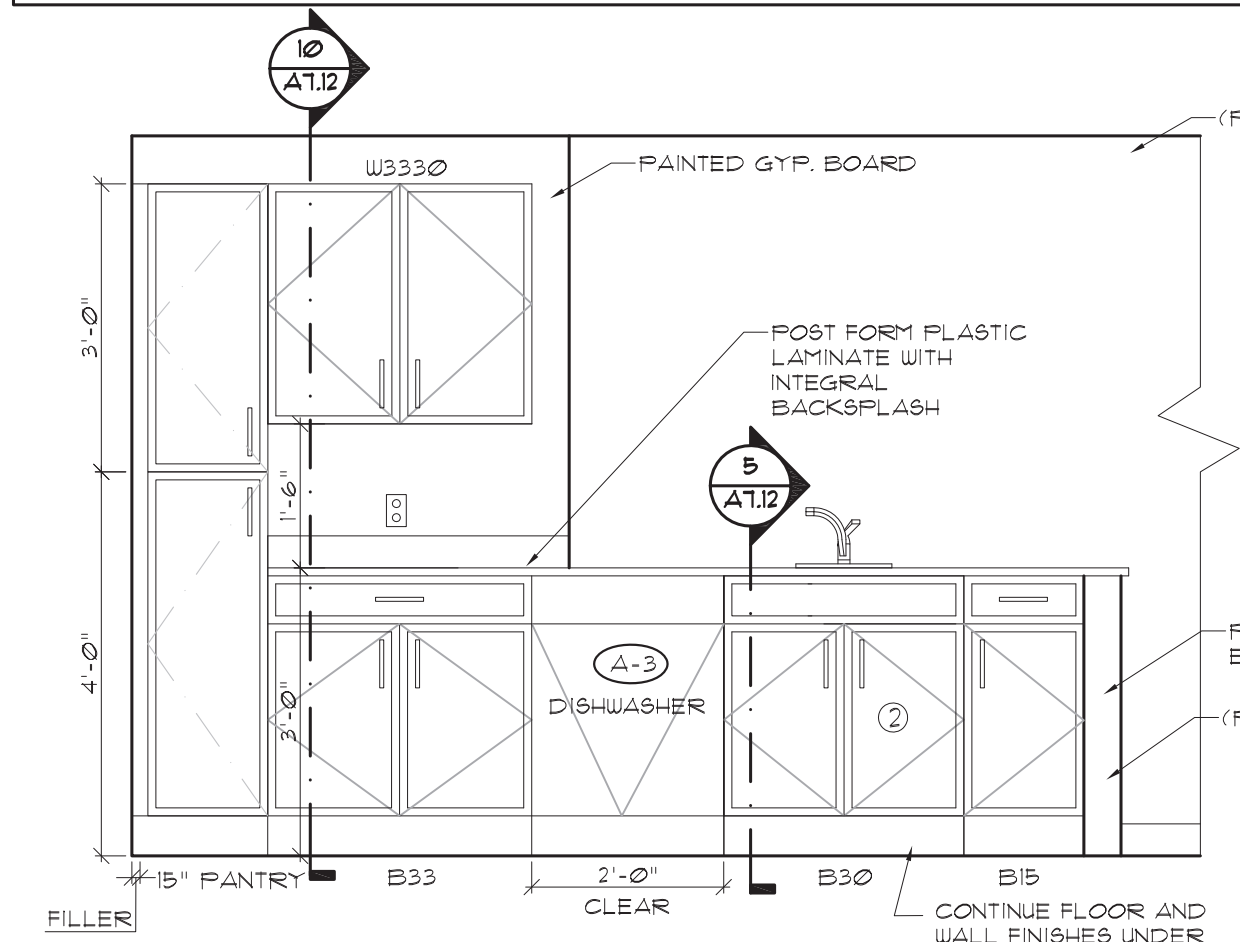
PROJECT # 1420  
DATE: 9/22/2020  
REVISED DATE:  
▲ REVISED: 02/16/2021



**ENLARGED KITCHEN PLAN 1**  
TYPE 4 UNIT PLAN - GROUP 1

**FINISH NOTES:**

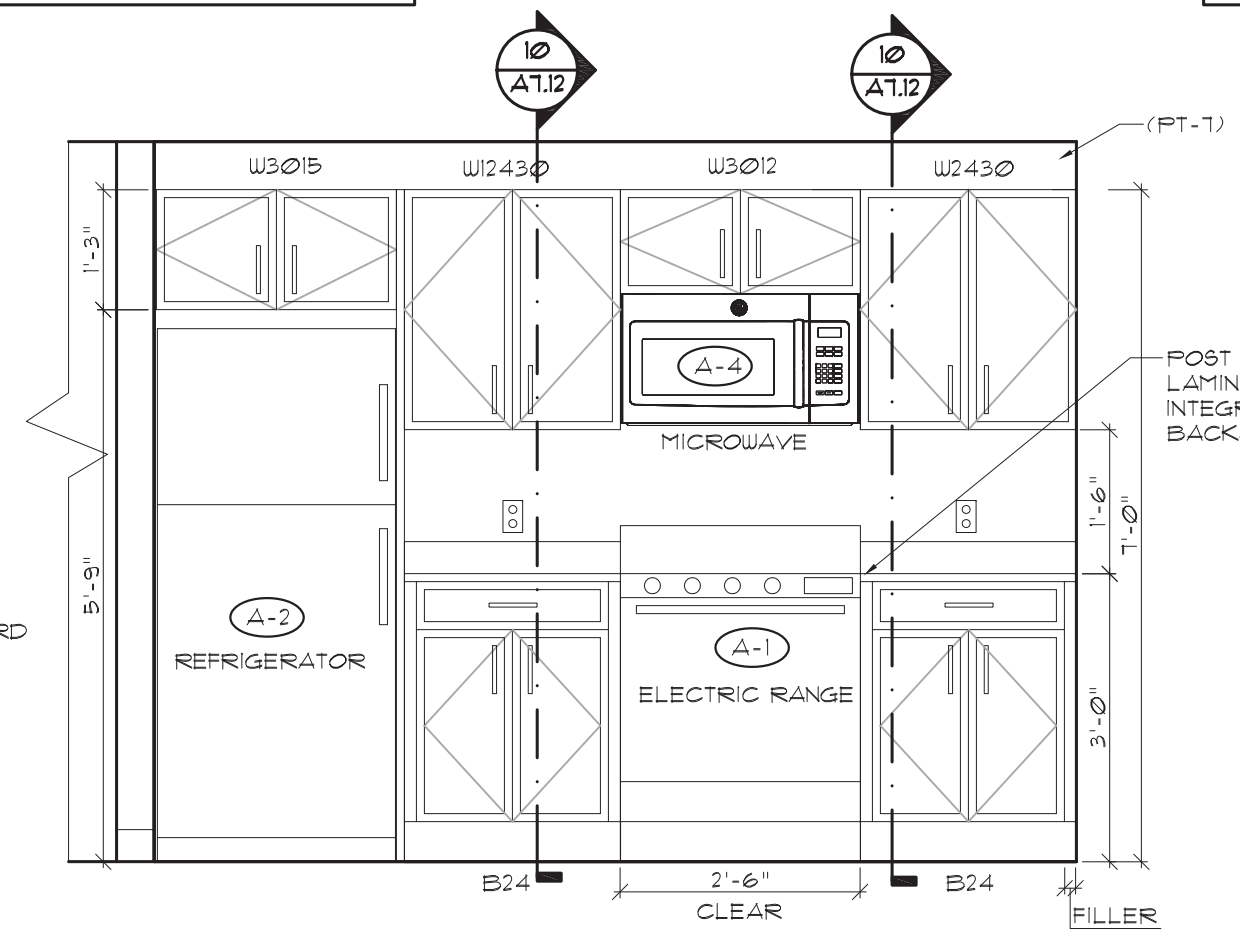
- TRANSITION STRIPS AT ALL CHANGES IN FLOORING FINISHES. CHANGE IN LEVEL IN FLOOR SURFACES SHALL NOT EXCEED 1/4" AND SLOPE OF THRESHOLD SHALL NOT BE GREATER THAN 1:2, IN COMPLIANCE WITH THE AMERICAN DISABILITIES ACT
- DO NOT PAINT ALUMINUM DOORS
- ALL FLOOR FINISHES TO CONTINUE INTO ADJACENT CLOSETS
- AT ALL "GROUP 1" AND "GROUP 2A" UNITS PROVIDE IN WALL BLOCKING FOR FUTURE GRAB BARS.
- AT ALL ADA UNITS, BATH #1, PROVIDE AND INSTALL GRAB BARS AS INDICATED ON DRAWINGS.
- AT ALL ADA UNITS, BATH #2, PROVIDE IN-WALL WOOD BLOCKING AS INDICATED FOR FUTURE INSTALLATION OF GRAB BARS.
- REFER TO ACCESSORY AND APPLIANCE SCHEDULES ON 482



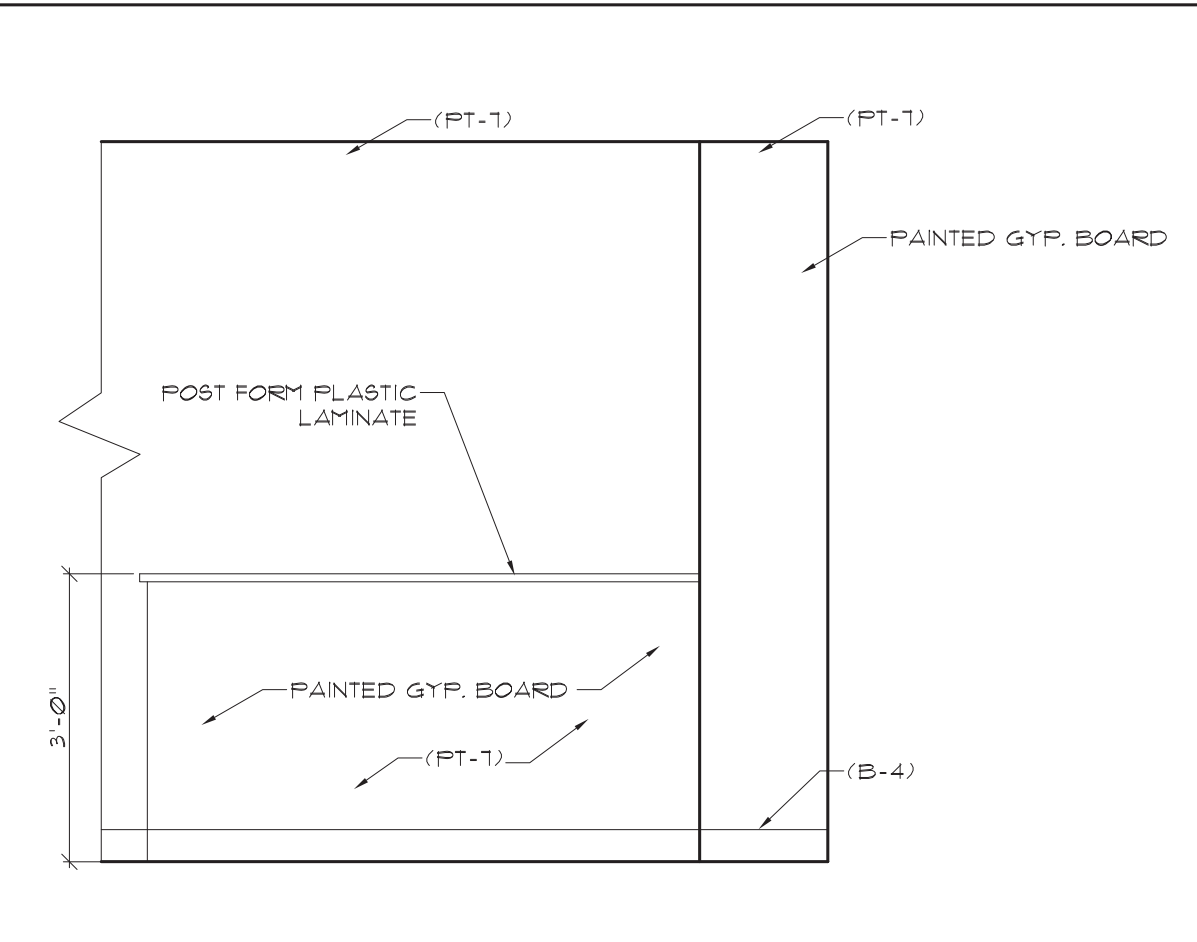
**KITCHEN ELEVATIONS 2**

**KEY NOTES:**

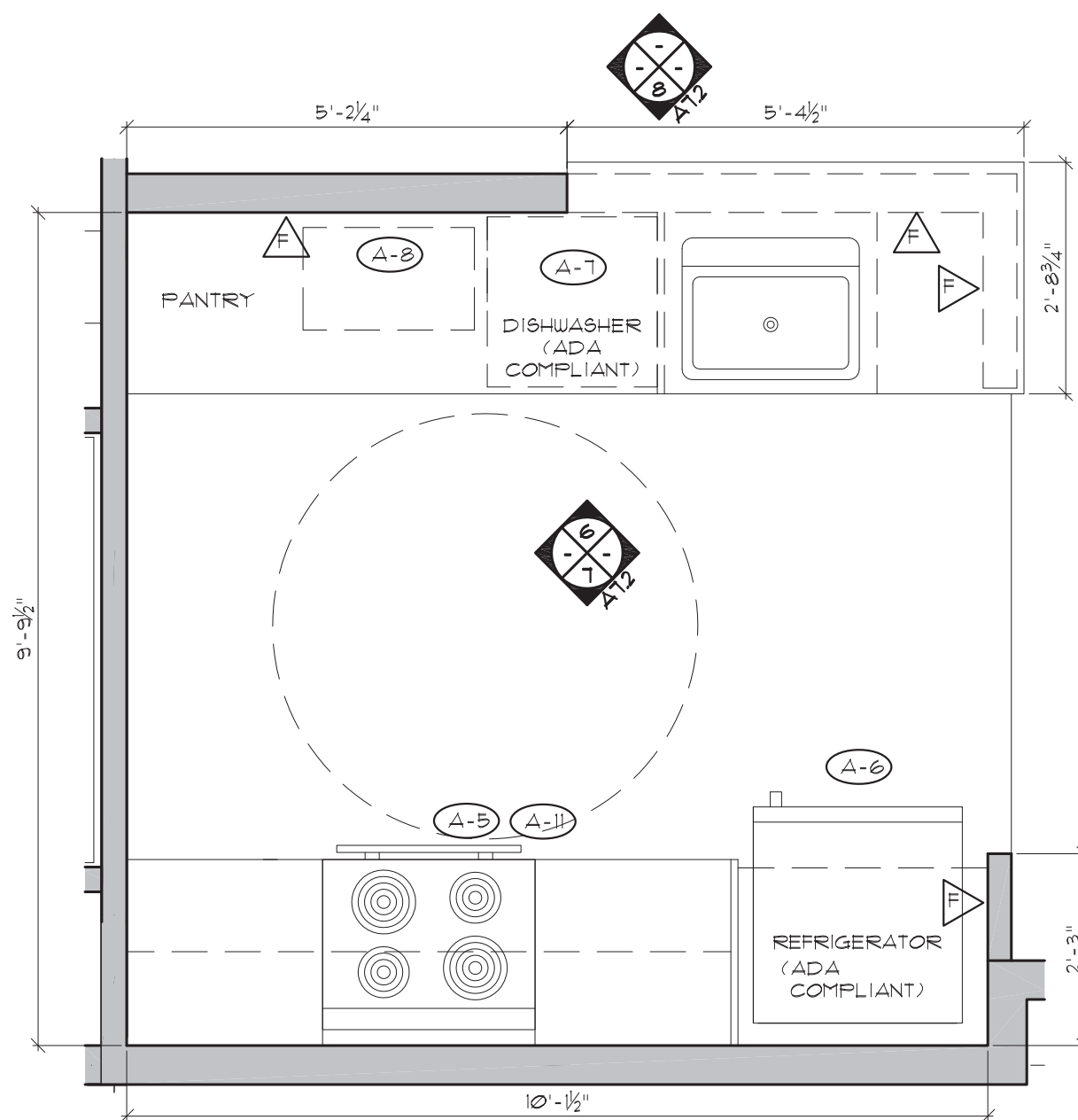
- PROVIDE IN WALL BLOCKING FOR FUTURE GRAB BARS.
- PROVIDE REMOVABLE CABINETS, RUN FLOOR AND WALL FINISHES UNDER COUNTERTOPS/ CABINETS



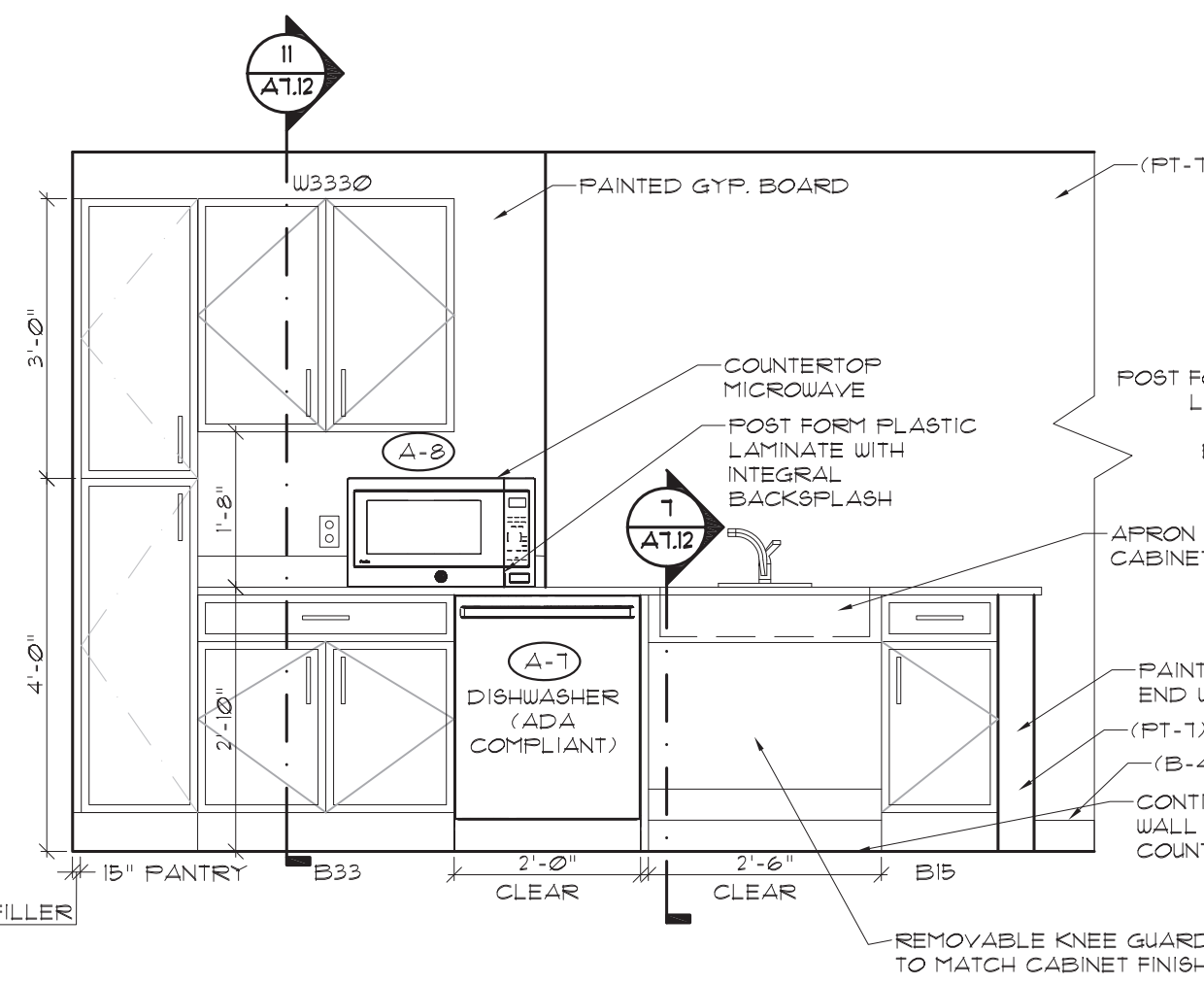
**KITCHEN ELEVATIONS 3**



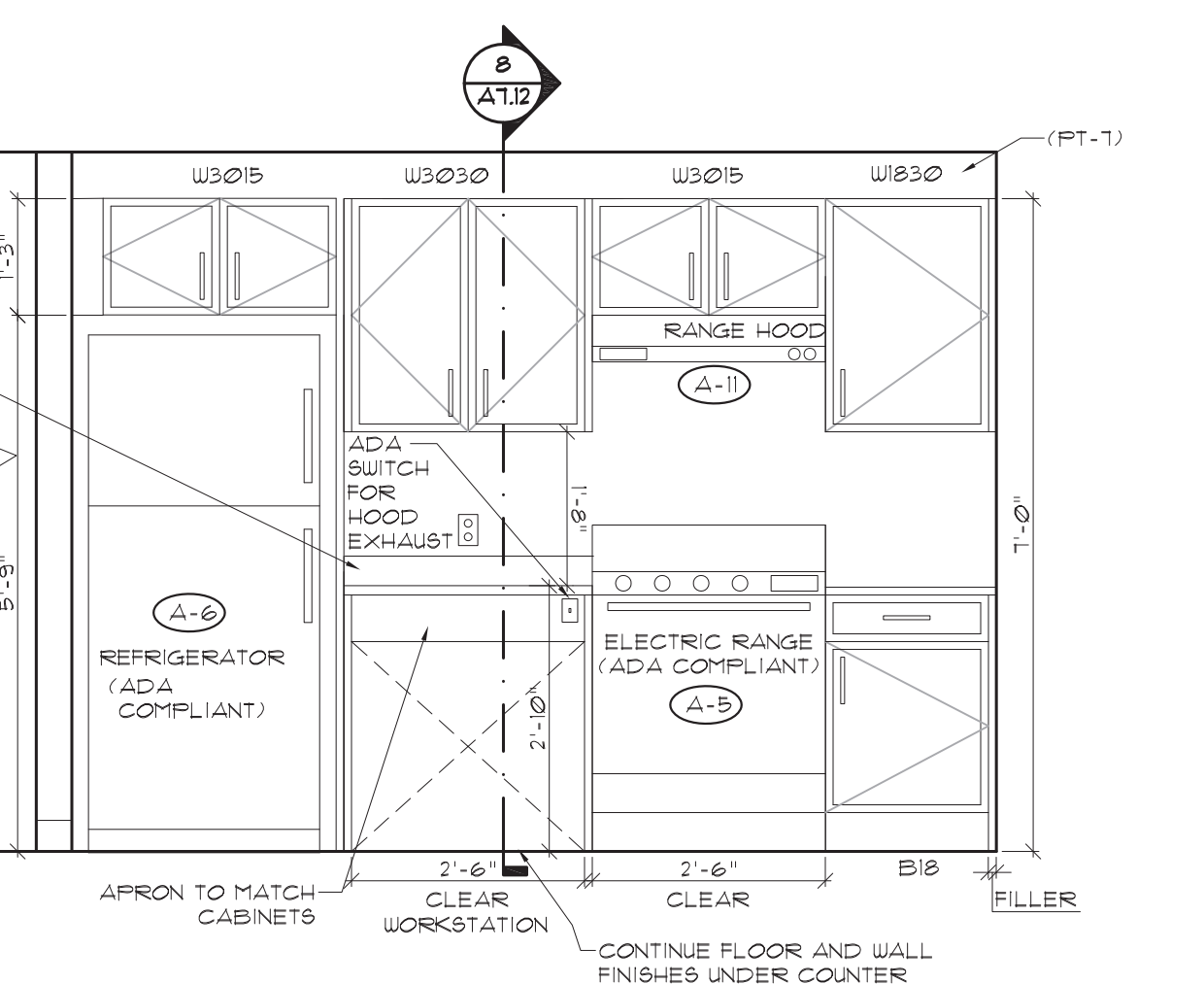
**KITCHEN ELEVATIONS 4** 1/2" = 1'-0"



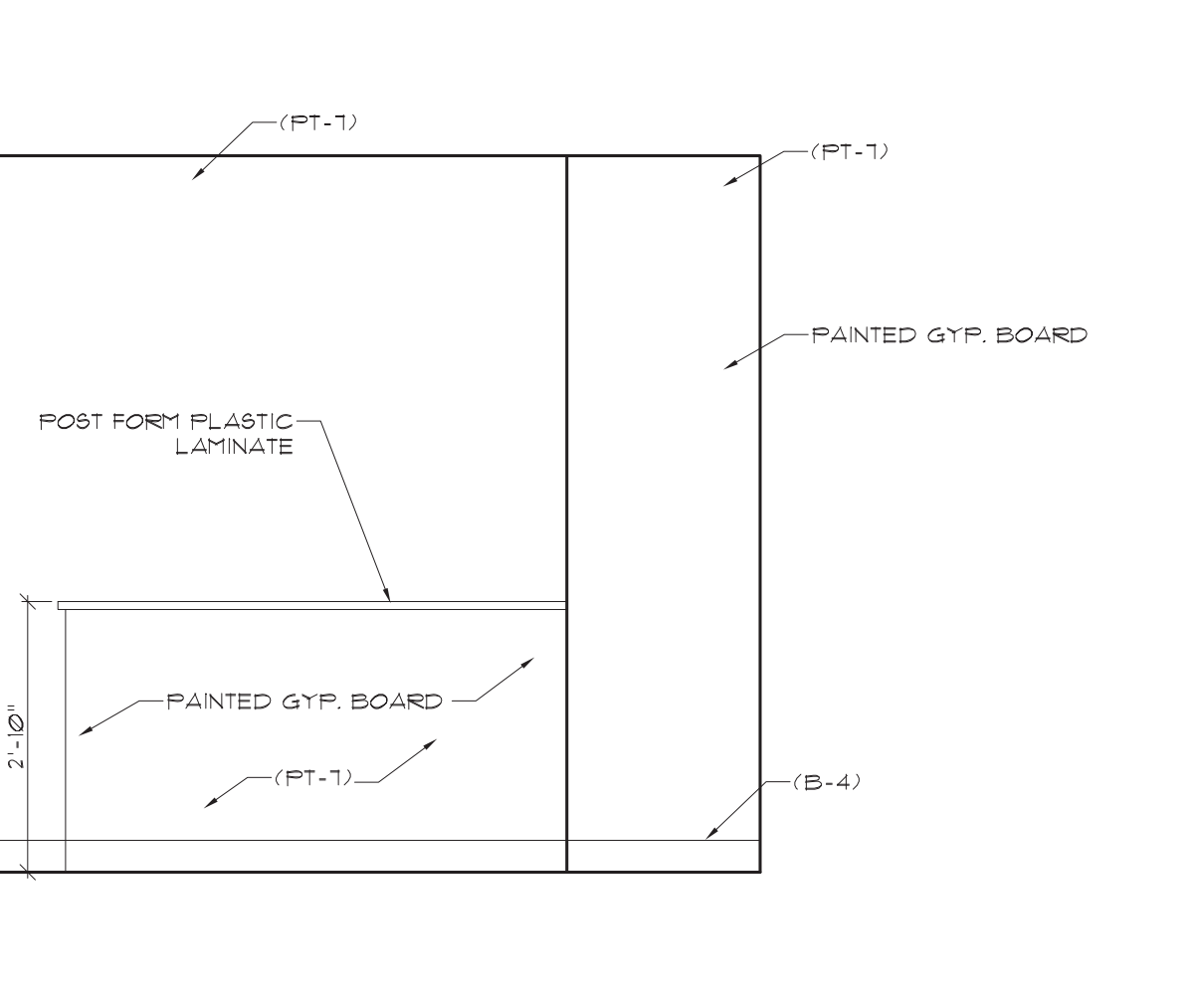
**ENLARGED KITCHEN PLAN 5**  
TYPE 41 UNIT PLAN - FULLY ACCESSIBLE (ADA4)



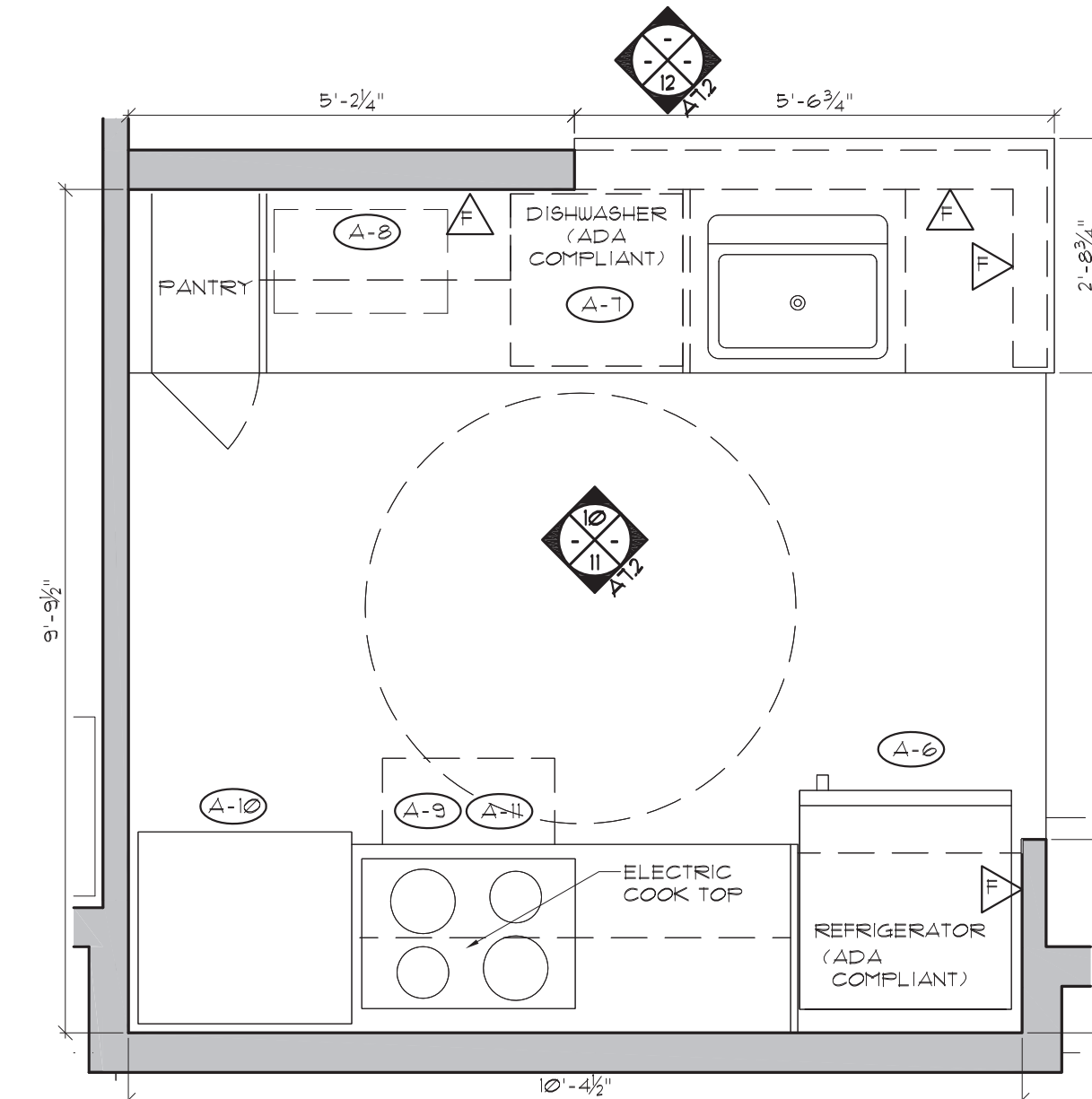
**KITCHEN ELEVATIONS 6**



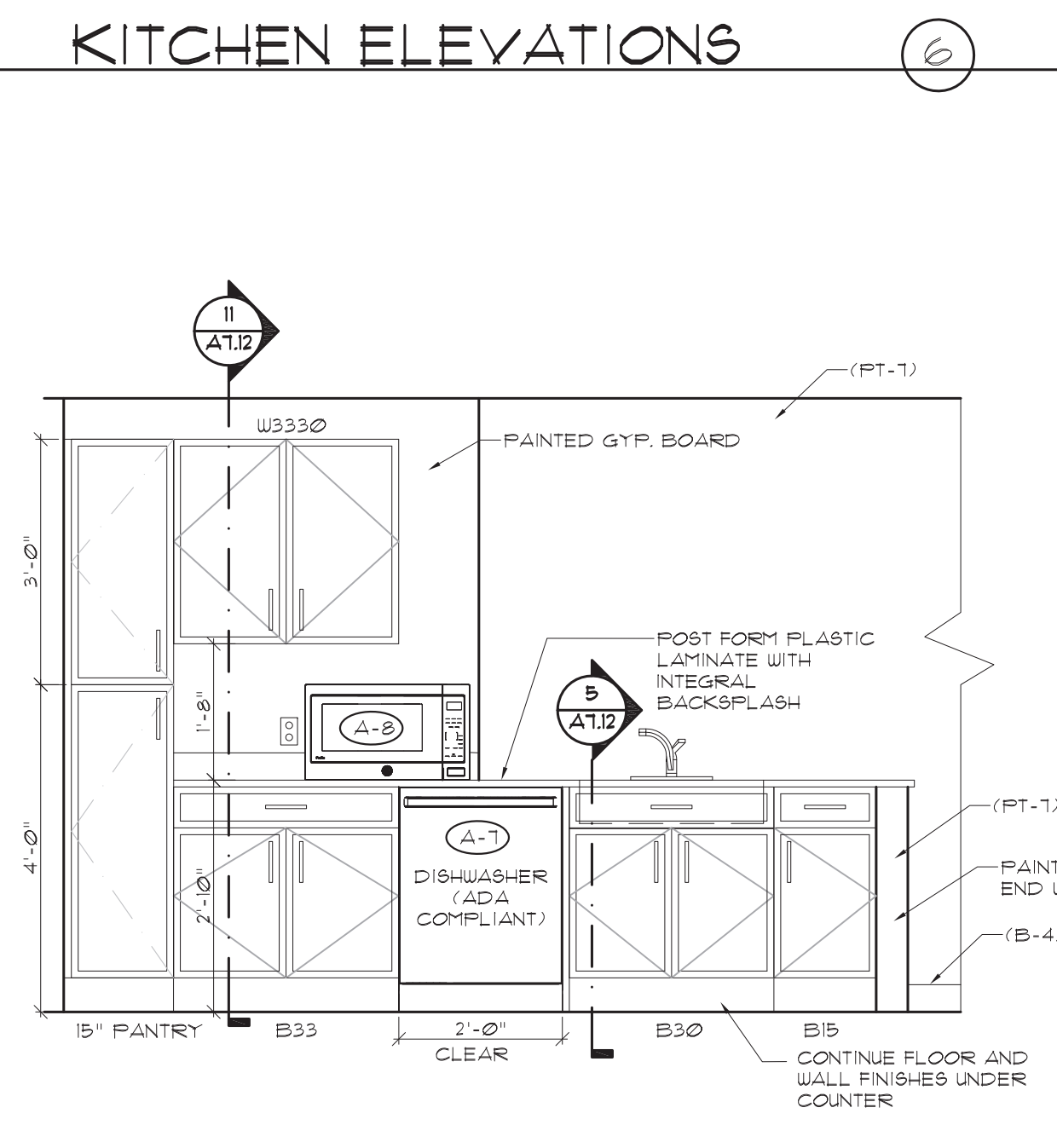
**KITCHEN ELEVATIONS 7**



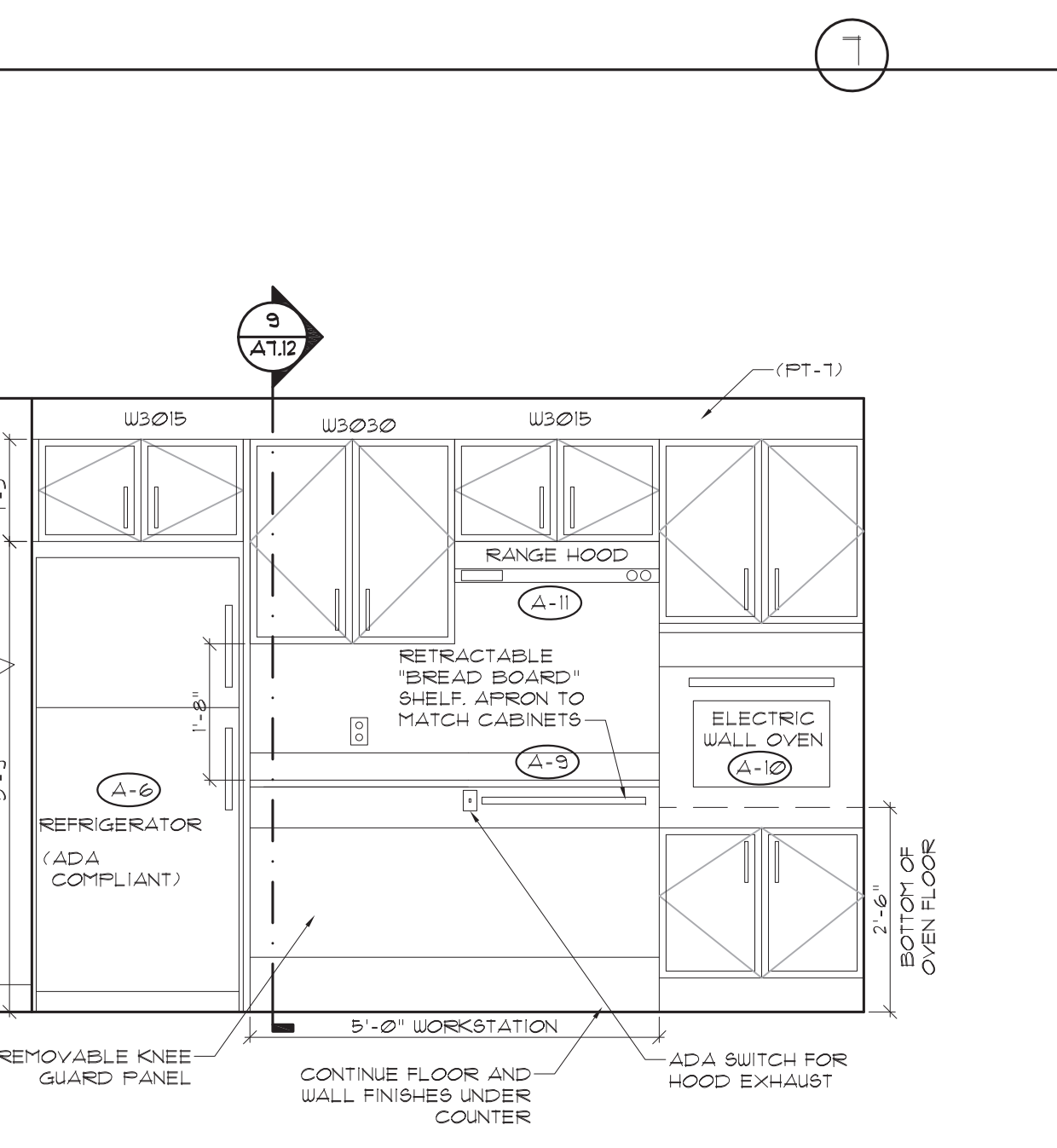
**KITCHEN ELEVATIONS 8** 1/2" = 1'-0"



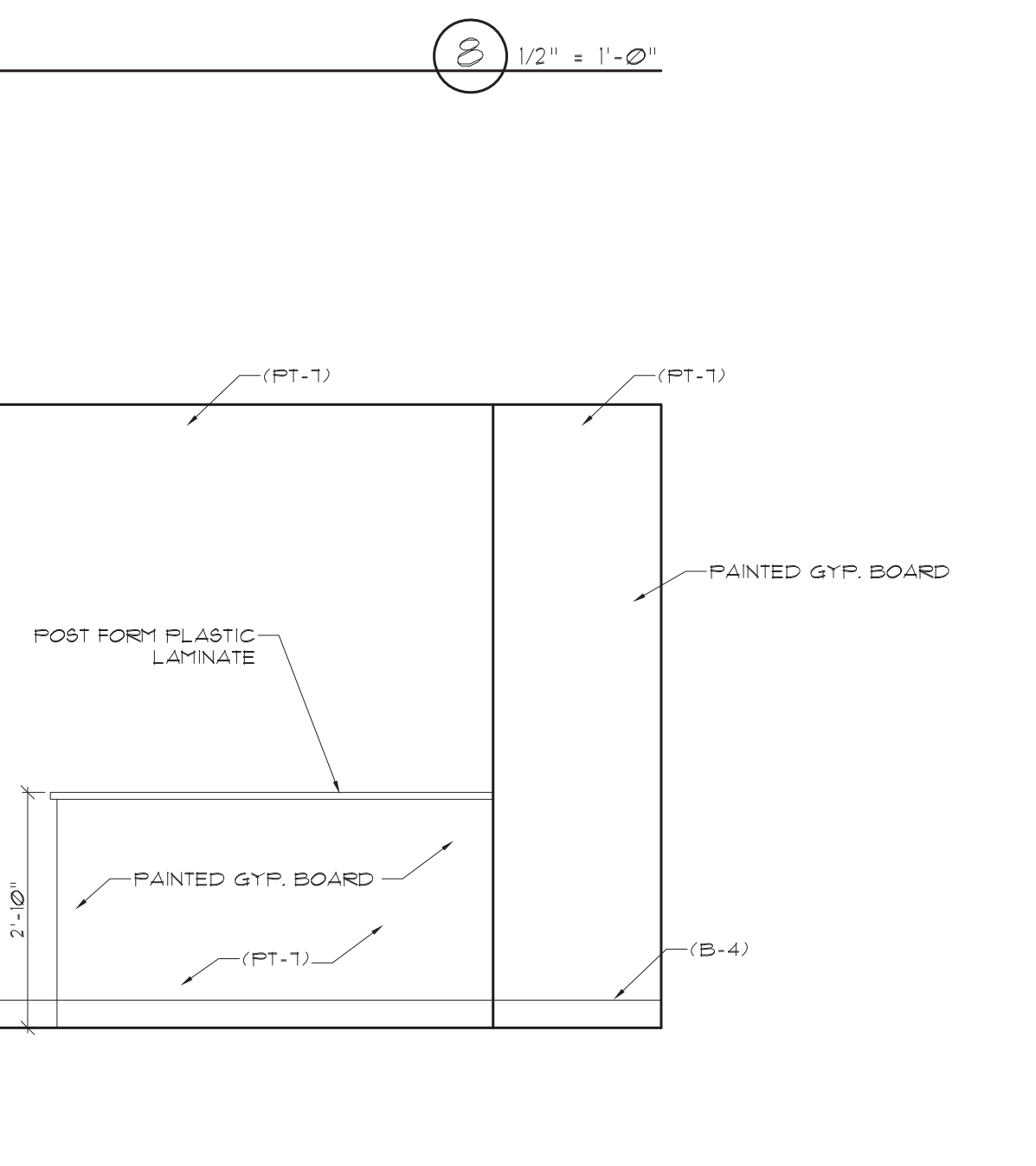
**ENLARGED KITCHEN PLAN 9**  
TYPE 42 UNIT PLAN - ACCESSIBLE GROUP 2A



**KITCHEN ELEVATIONS 10**



**KITCHEN ELEVATIONS 11**



**KITCHEN ELEVATIONS 12** 1/2" = 1'-0"

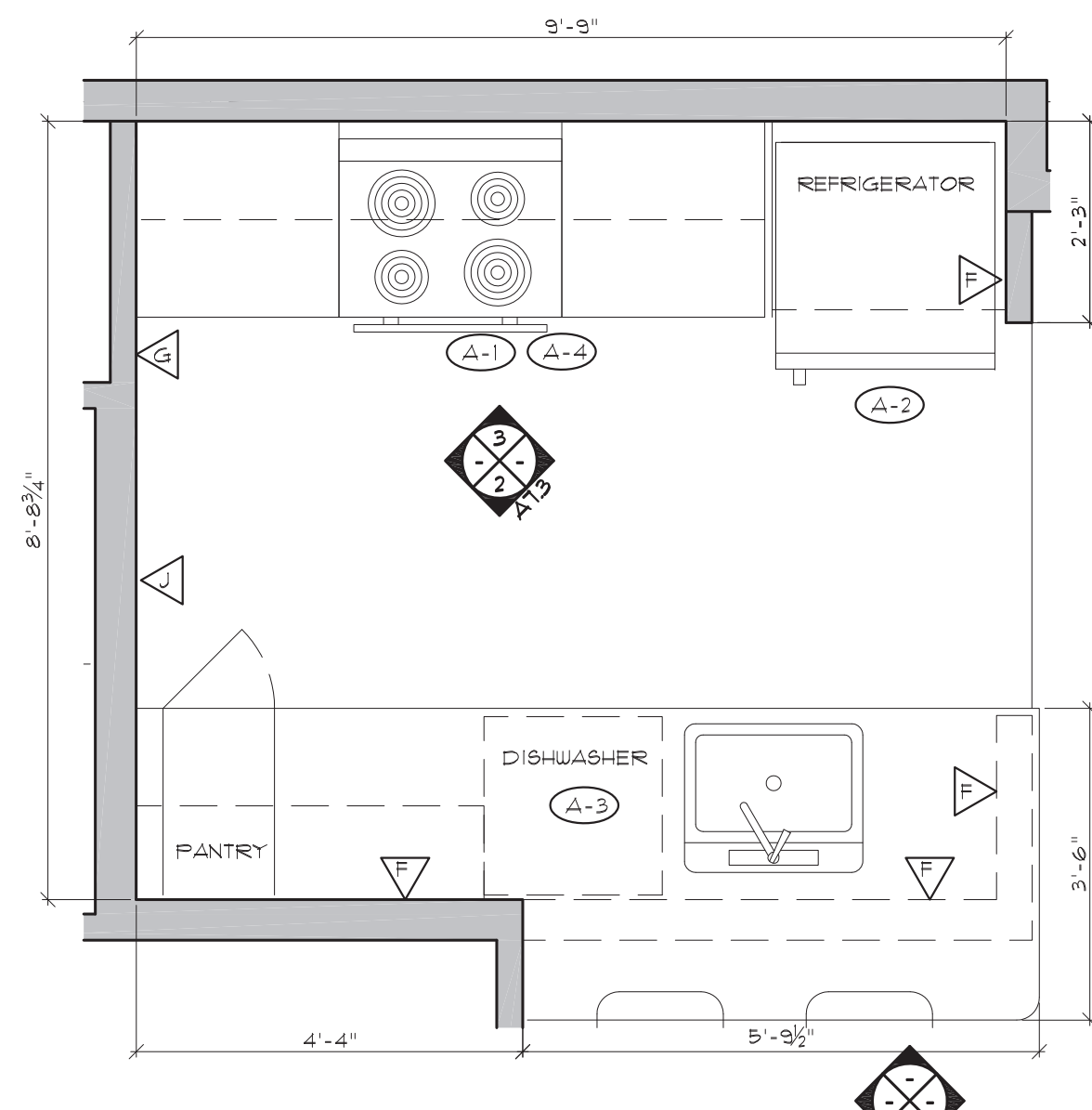


SHEET CONTENTS:  
Interior Elevations

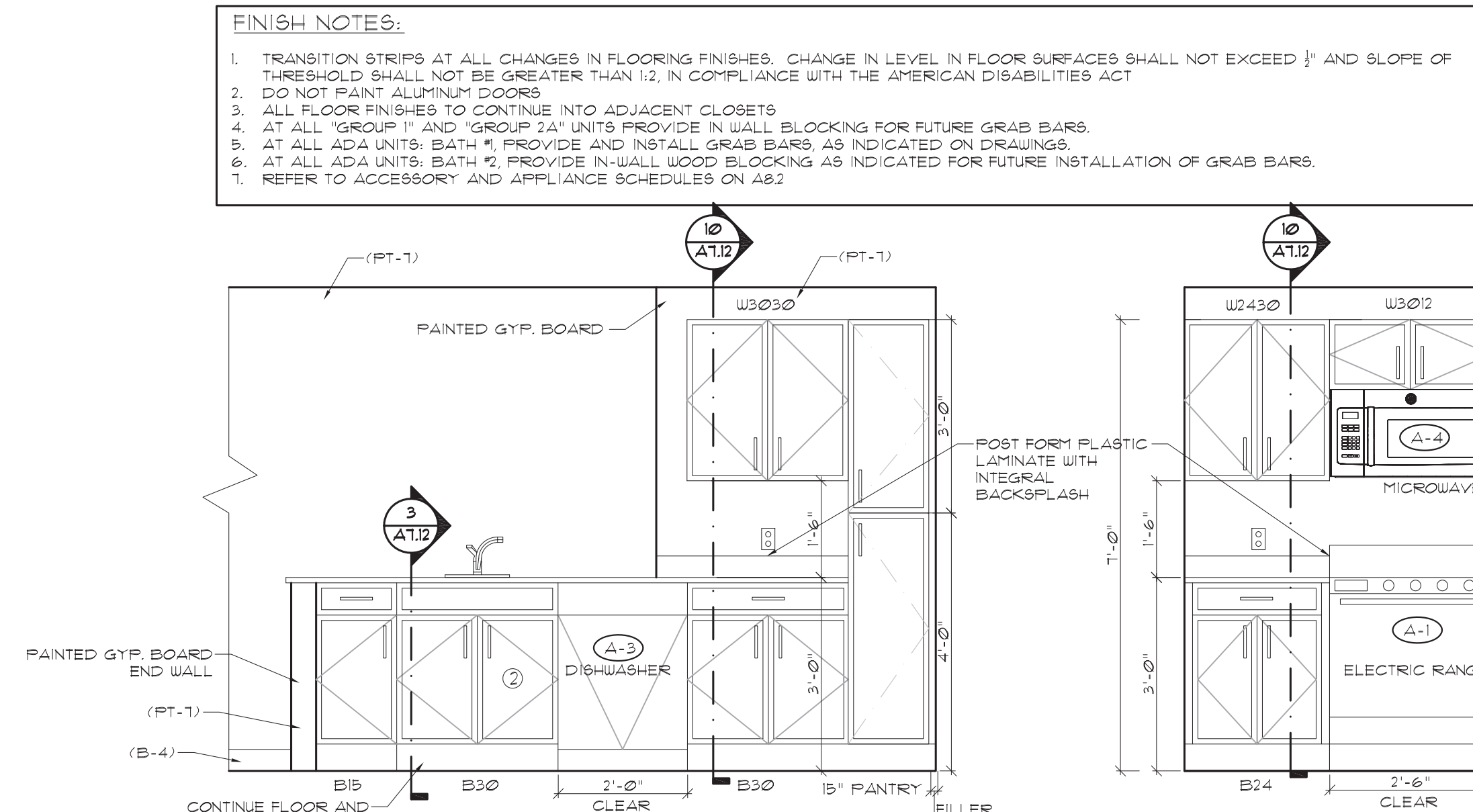
PROJECT # 1420  
DATE: 9/22/2020  
REVISED DATE:  
REVISED: 02/16/2021

**A7.2**

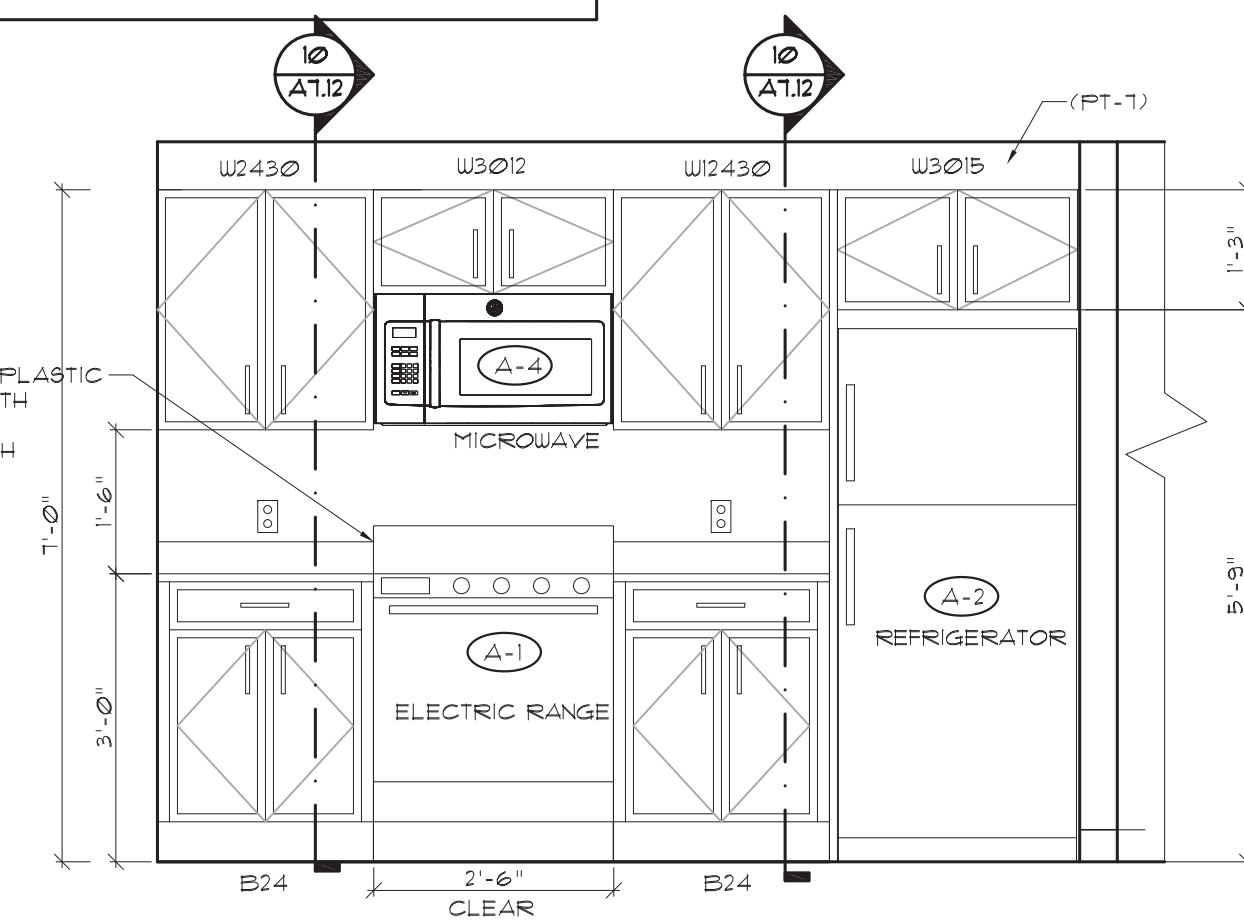
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**ENLARGED KITCHEN PLAN 1**  
TYPE 5 UNIT PLAN - GROUP 1

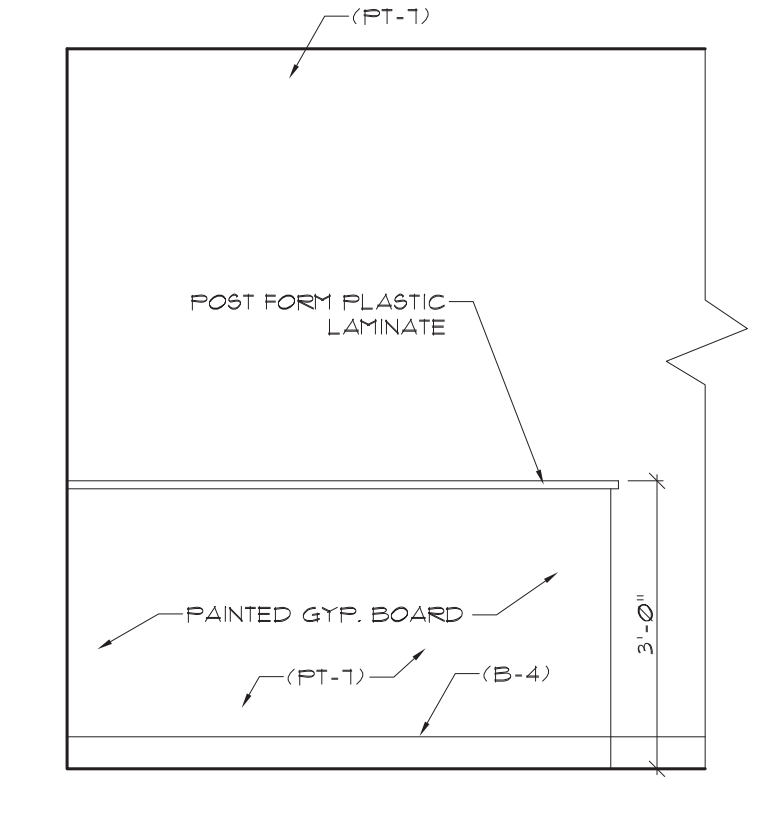


**KITCHEN ELEVATIONS 2**

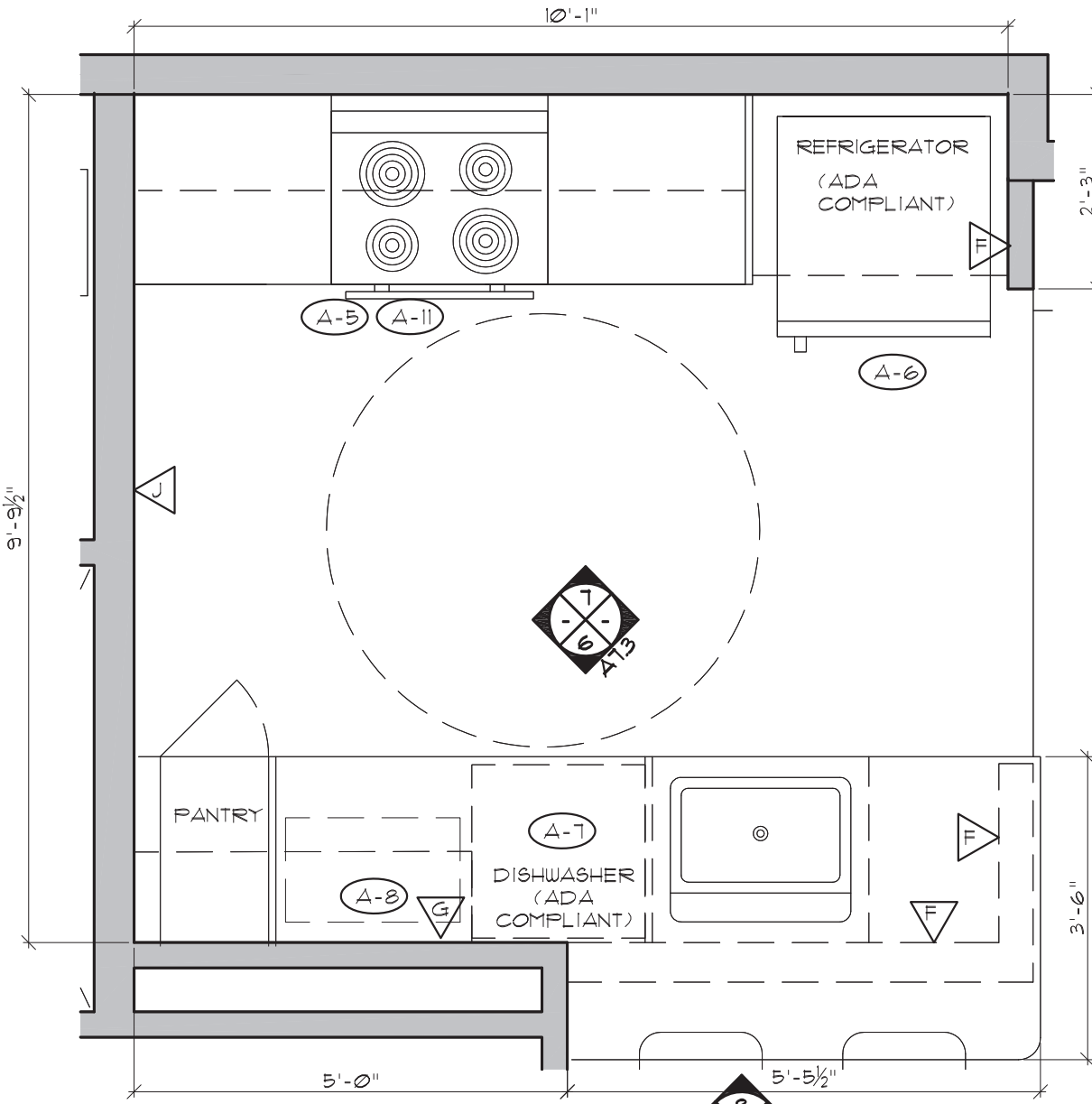


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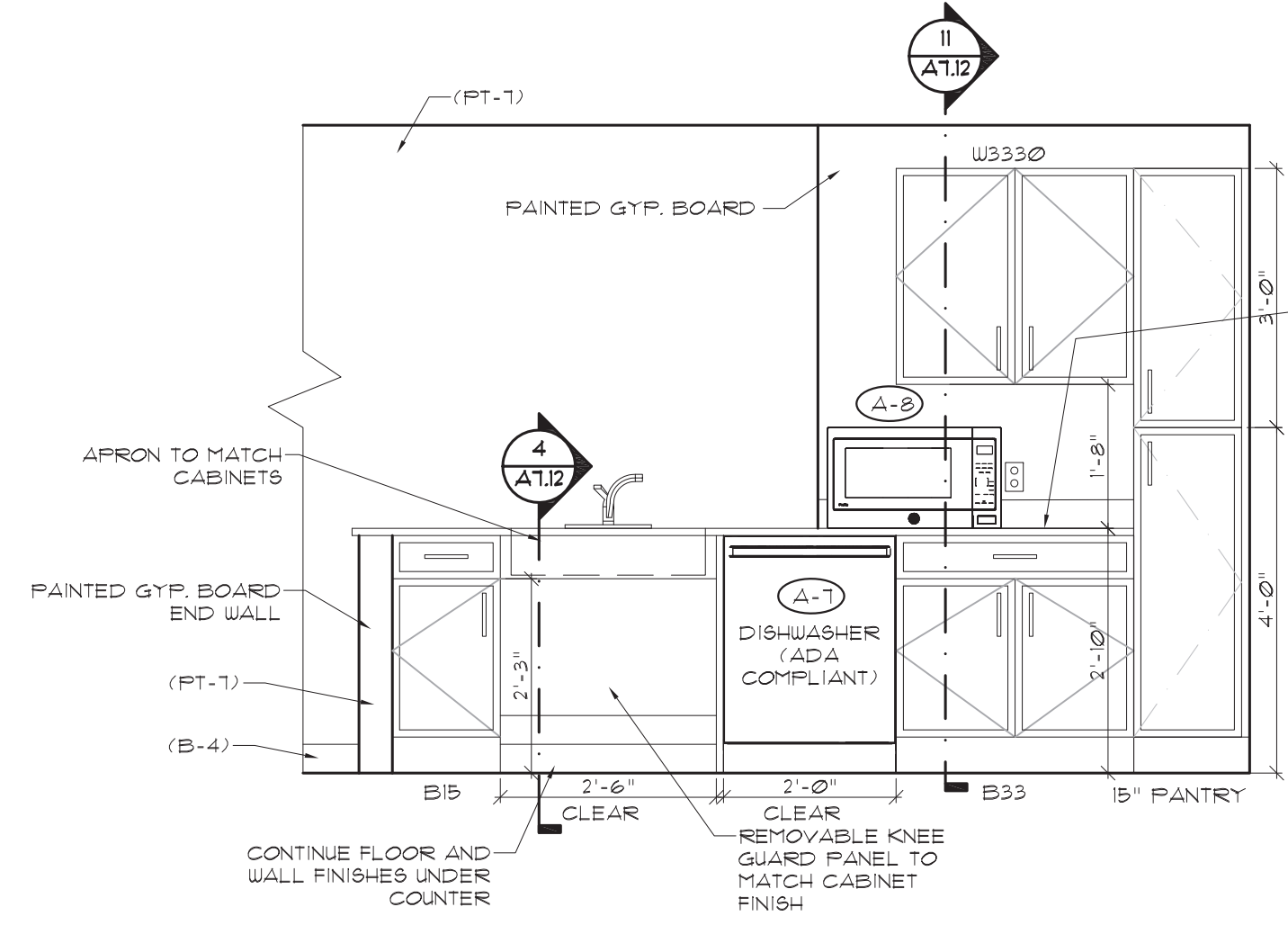
**KEY NOTES:**  
 ① PROVIDE IN WALL BLOCKING FOR FUTURE GRAB BARS.  
 ② PROVIDE REMOVABLE CABINETS. RUN FLOOR AND WALL FINISHES UNDER COUNTERTOPS/ CABINETS



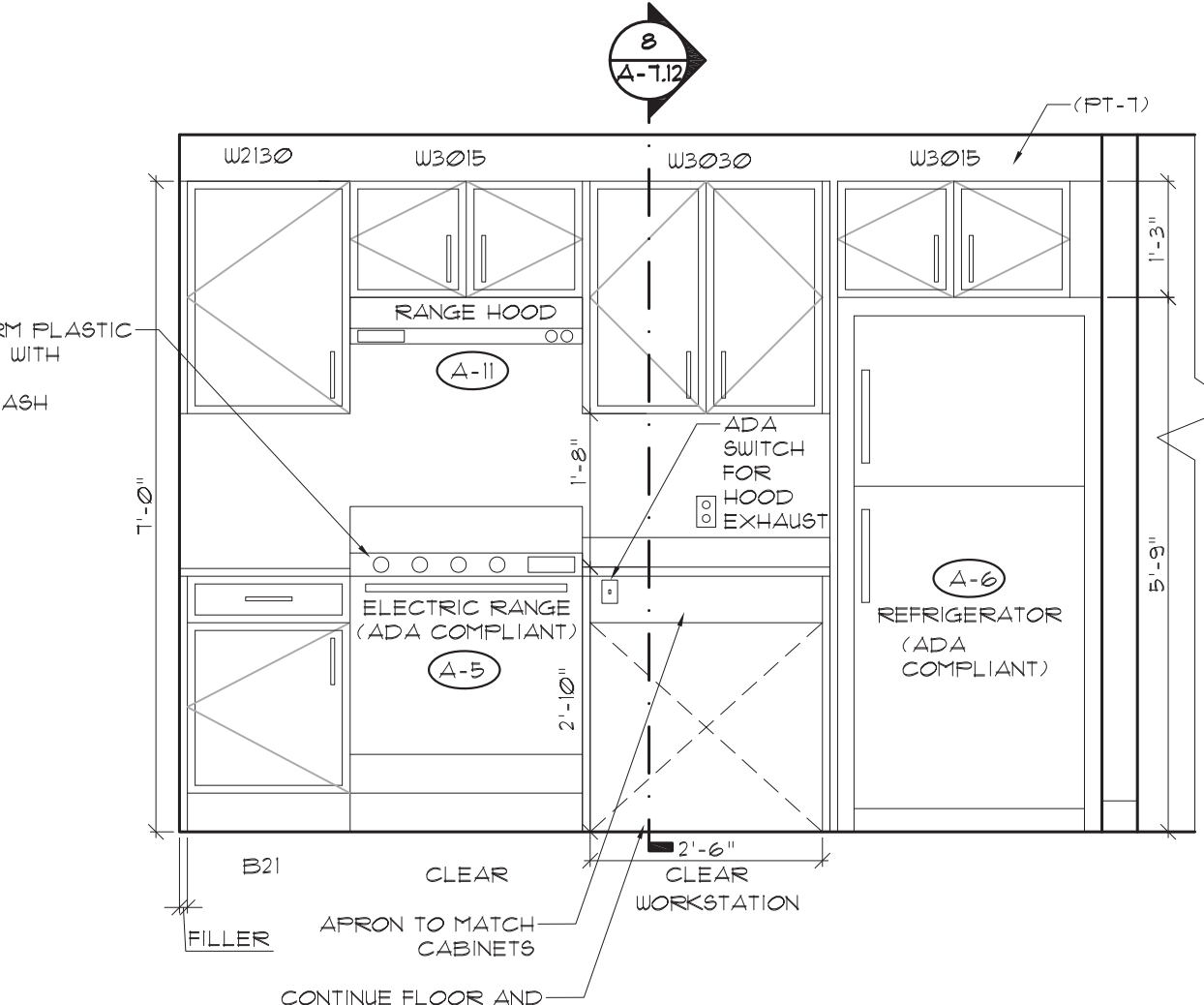
**4** 1/2" = 1'-0"



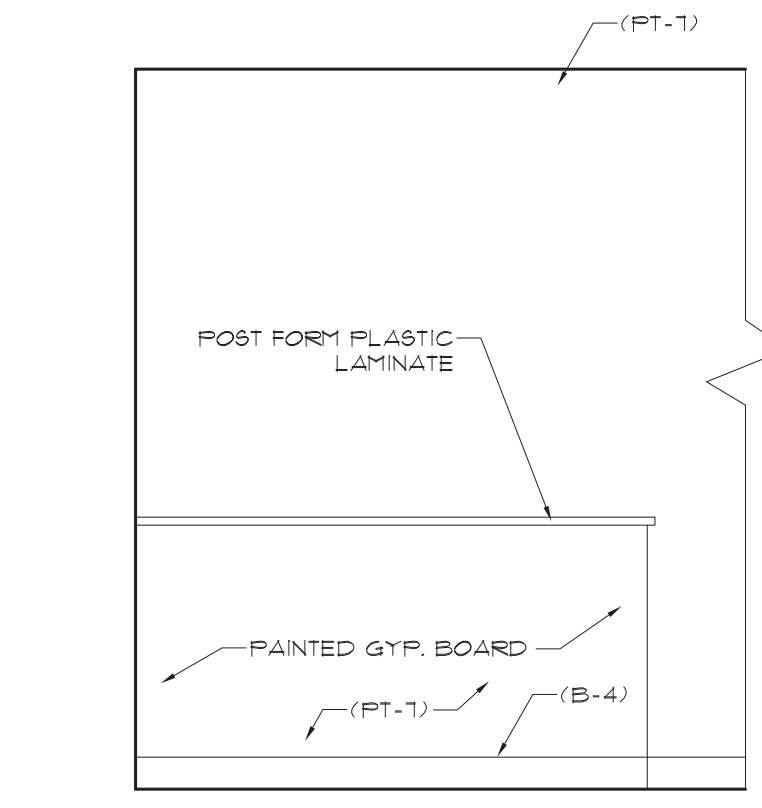
**ENLARGED KITCHEN PLAN 5**  
TYPE 5.1 UNIT PLAN - FULLY ACCESSIBLE (ADA)



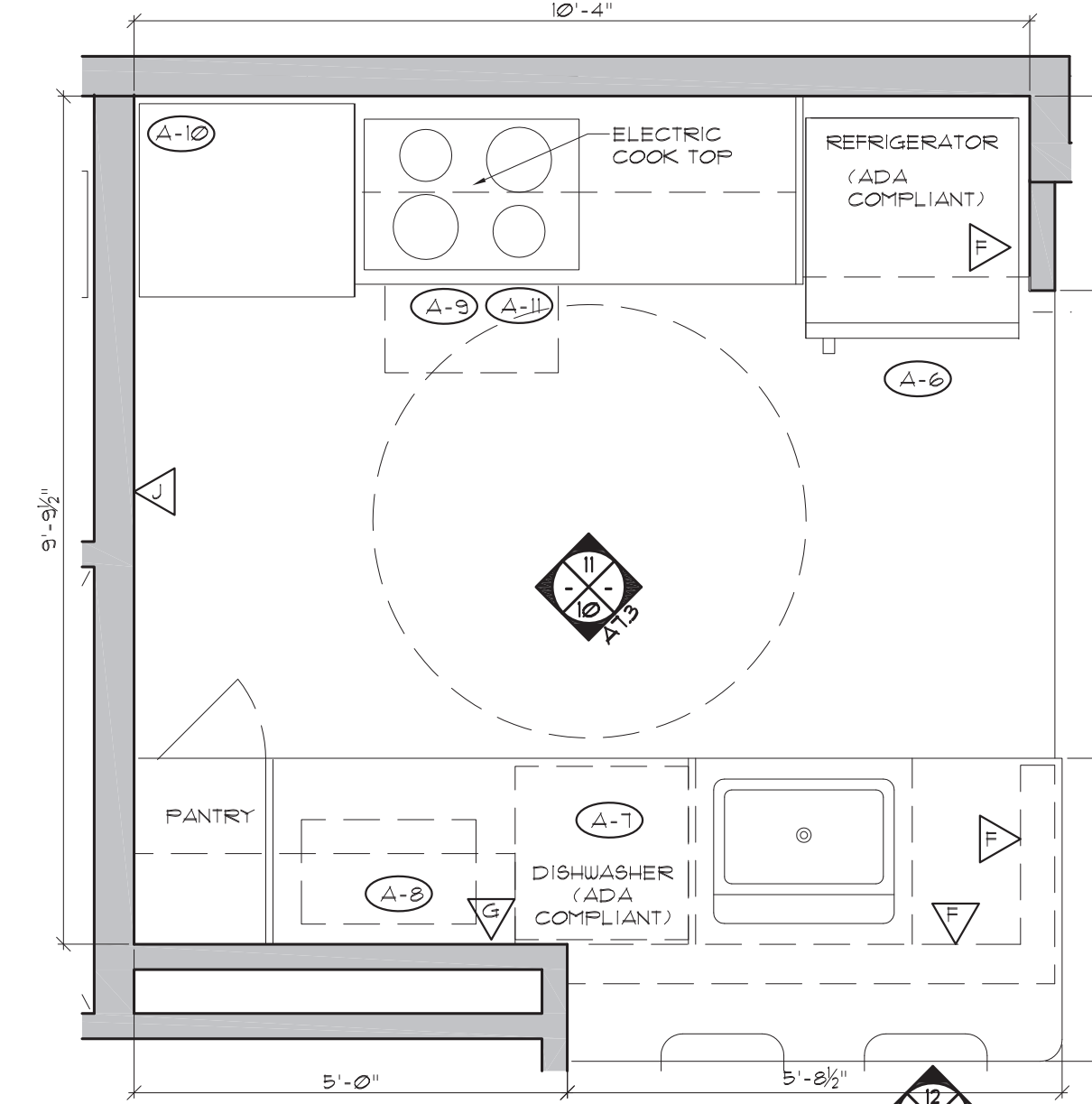
**KITCHEN ELEVATIONS 6**



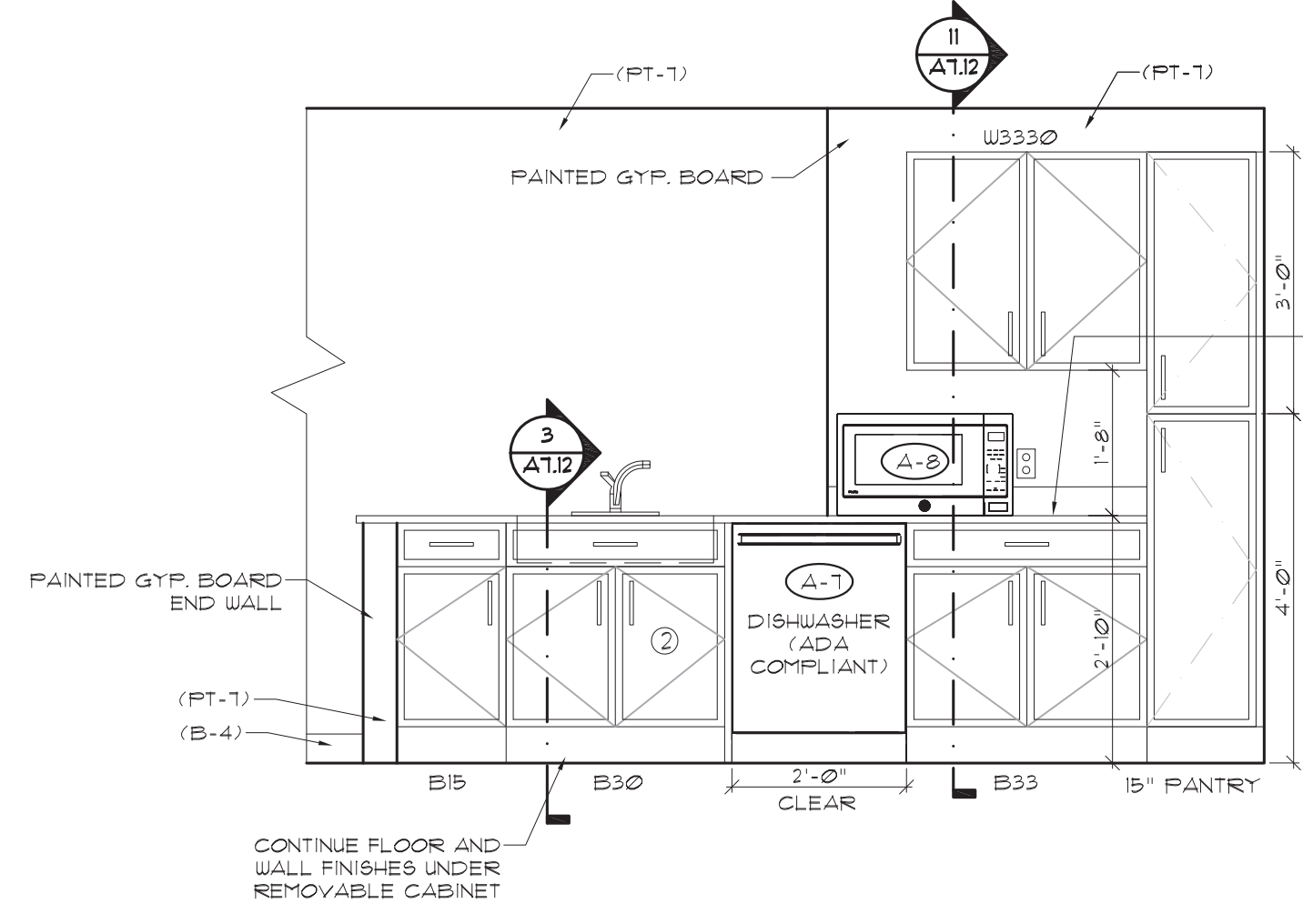
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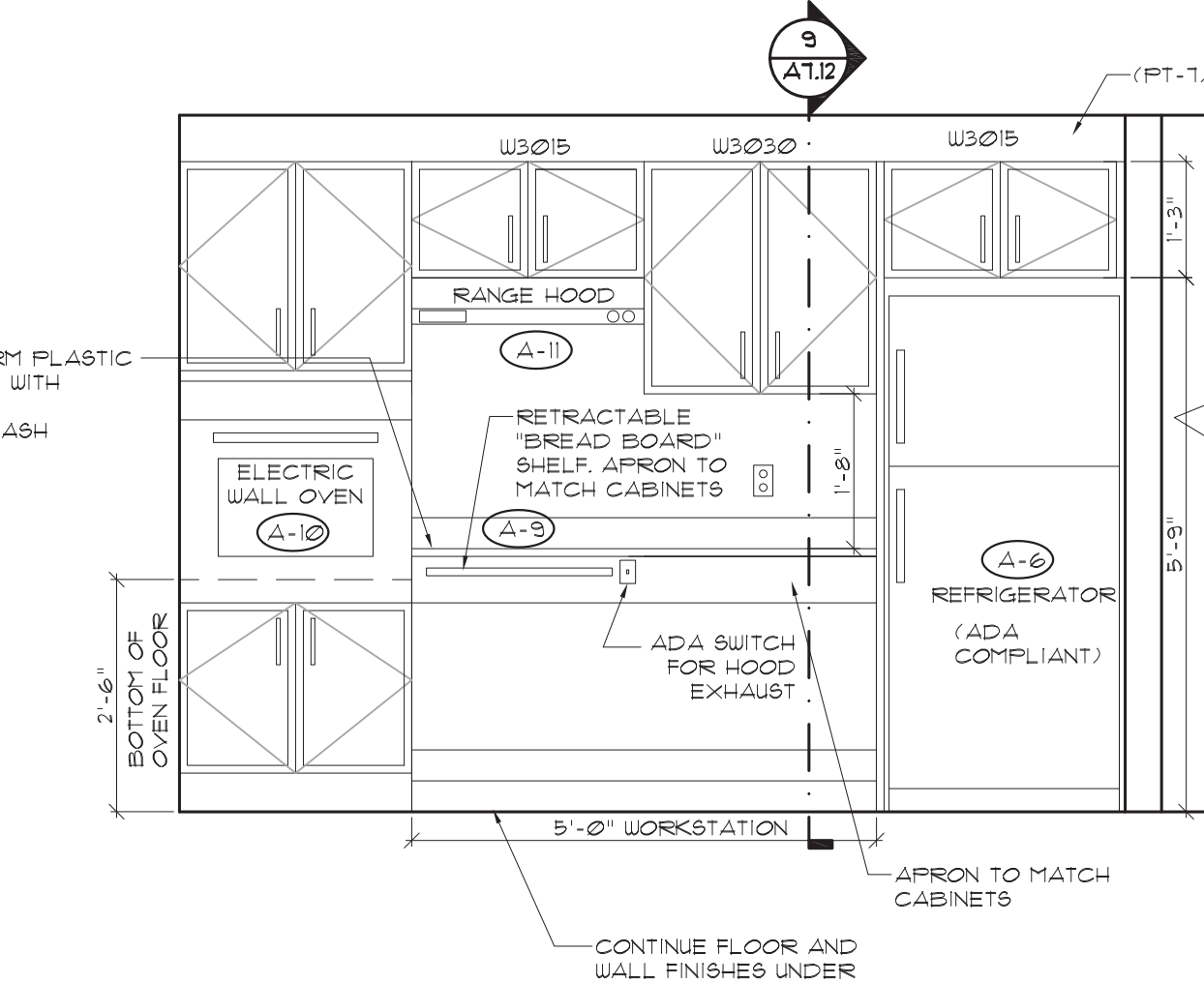
**8** 1/2" = 1'-0"



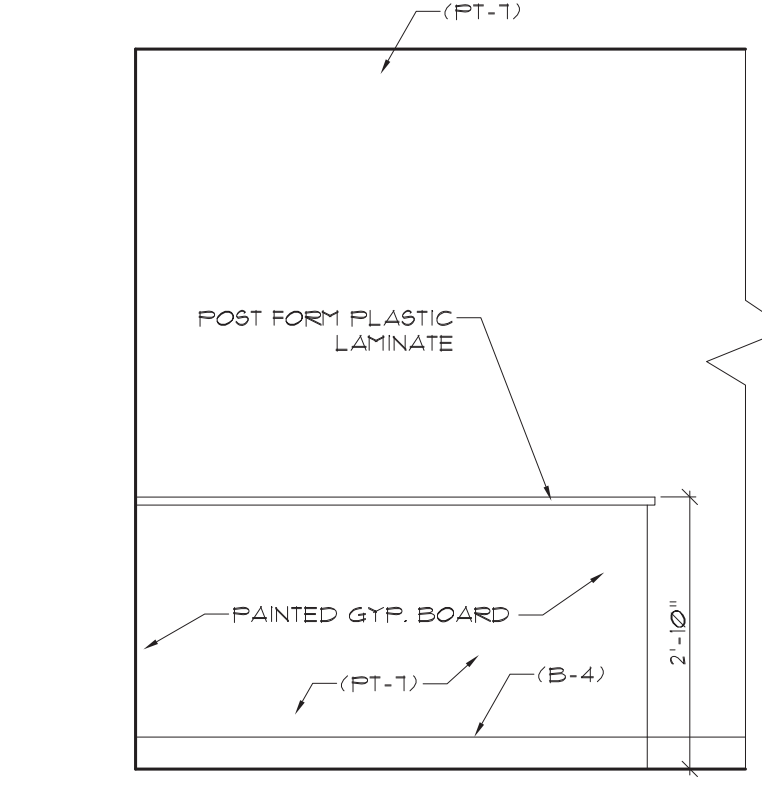
**ENLARGED KITCHEN PLAN 9**  
TYPE 5.2 UNIT PLAN - ACCESSIBLE GROUP 2A



**KITCHEN ELEVATIONS 10**



**11**



**12** 1/2" = 1'-0"



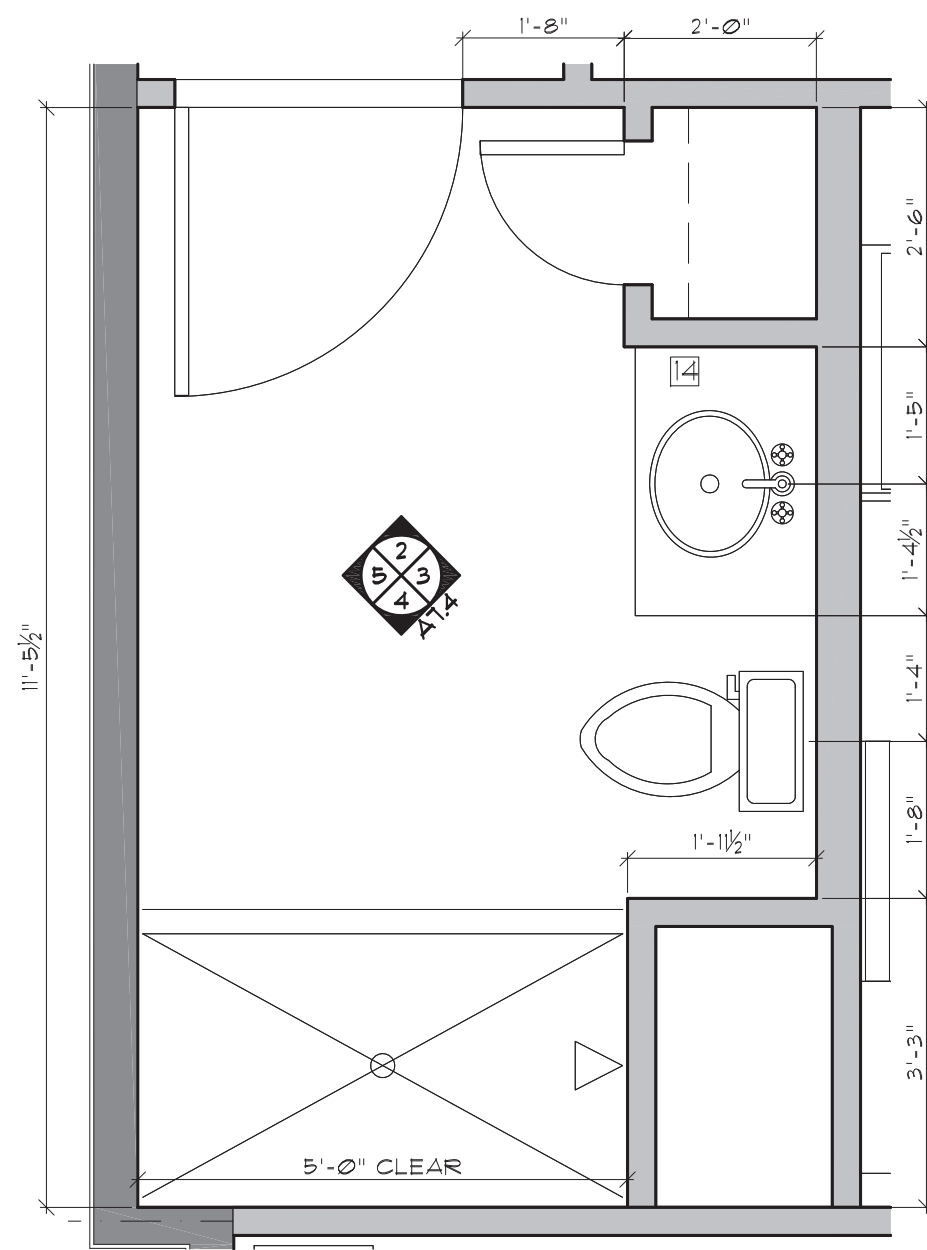
SHEET CONTENTS:  
Interior Elevations

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REVISED: 02/16/2021

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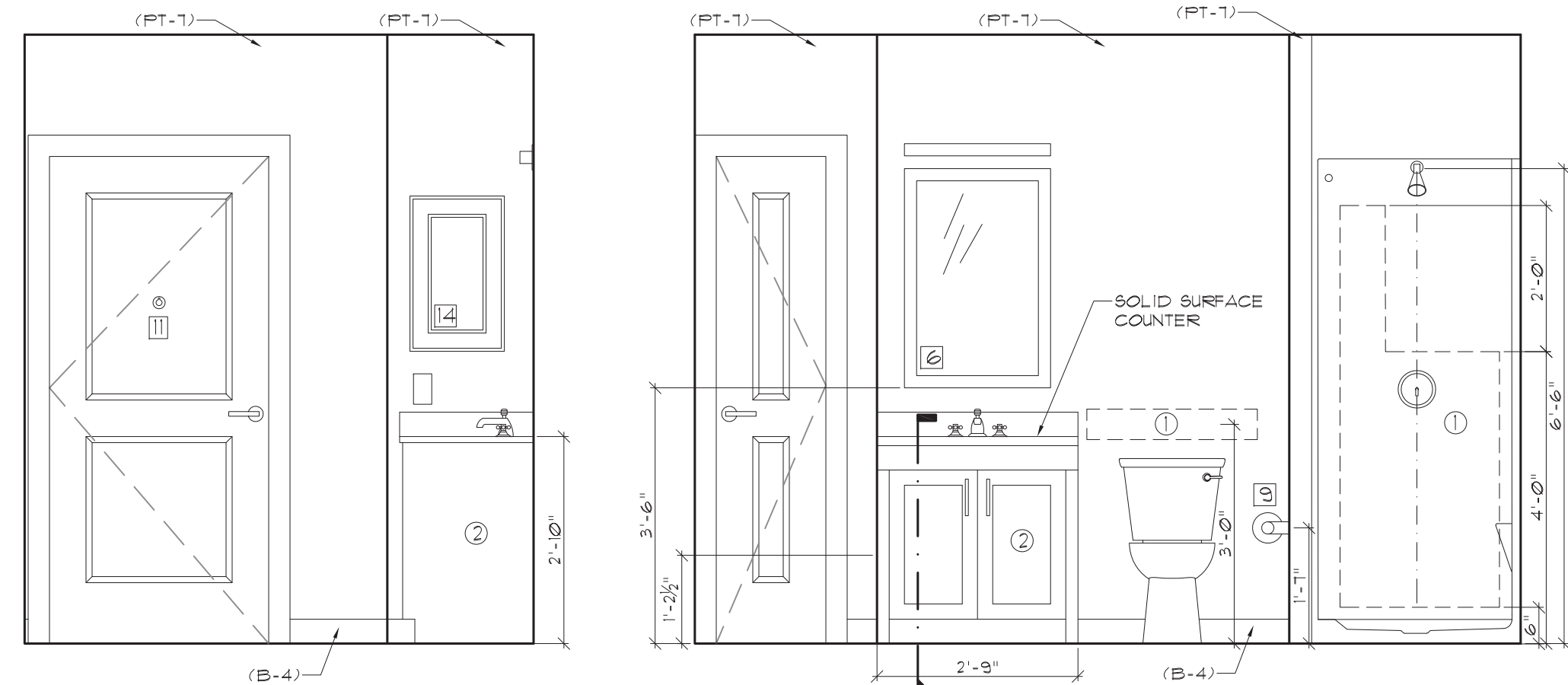




ENLARGED BATH 1 PLAN (1)  
TYPE 1 UNIT PLAN - GROUP 1

**FINISH NOTES:**

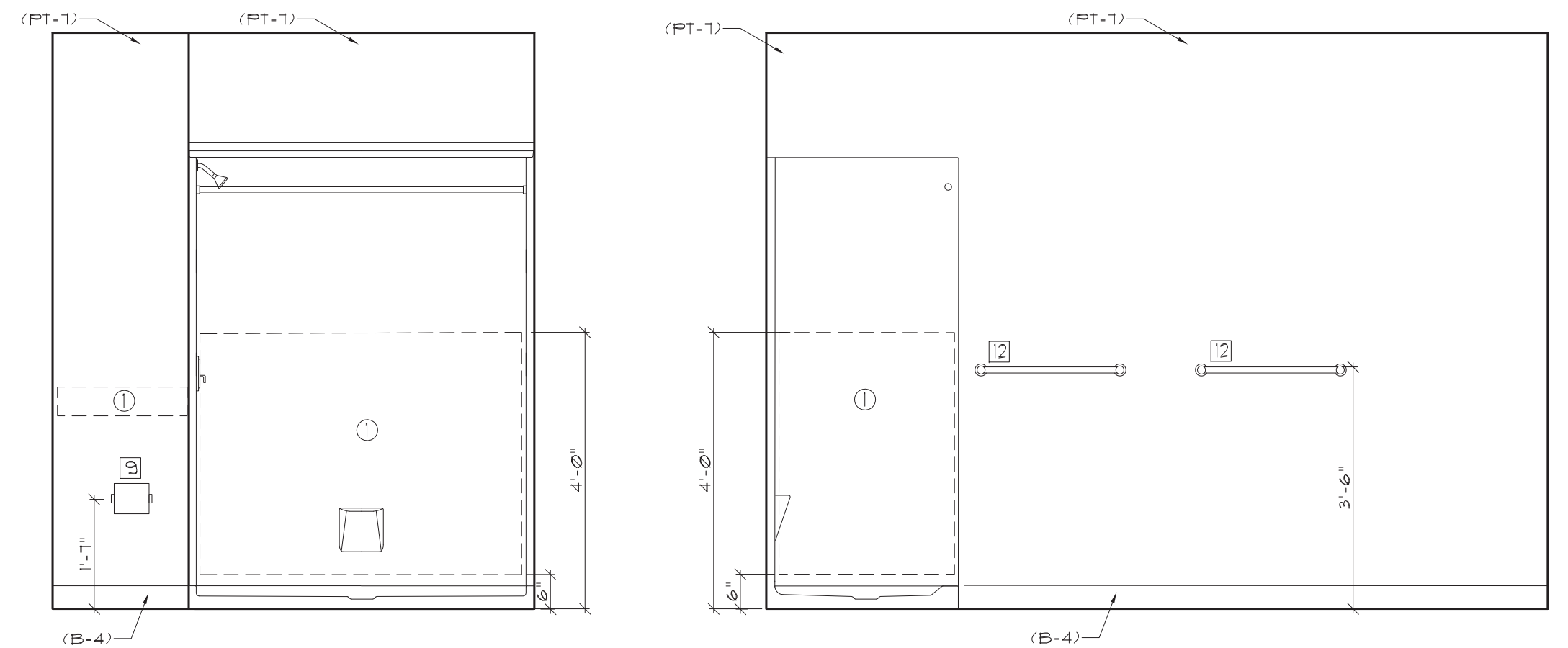
1. TRANSITION STRIPS AT ALL CHANGES IN FLOORING FINISHES. CHANGE IN LEVEL IN FLOOR SURFACES SHALL NOT EXCEED 1/4" AND SLOPE OF THRESHOLD SHALL NOT BE GREATER THAN 1:2, IN COMPLIANCE WITH THE AMERICAN DISABILITIES ACT
2. DO NOT PAINT ALUMINUM DOORS
3. ALL FLOOR FINISHES TO CONTINUE INTO ADJACENT CLOSETS
4. AT ALL "GROUP 1" AND "GROUP 2A" UNITS PROVIDE IN-WALL BLOCKING FOR FUTURE GRAB BARS
5. AT ALL ADA UNITS, BATH #1, PROVIDE AND INSTALL GRAB BARS AS INDICATED ON DRAWINGS
6. AT ALL ADA UNITS, BATH #2, PROVIDE IN-WALL WOOD BLOCKING AS INDICATED FOR FUTURE INSTALLATION OF GRAB BARS
7. REFER TO ACCESSORY AND APPLIANCE SCHEDULES ON A8.2
8. PROVIDE IN-WALL BLOCKING FOR ALL BATHROOM ACCESSORIES



BATH 1 ELEVATIONS (2)

**KEY NOTES:**

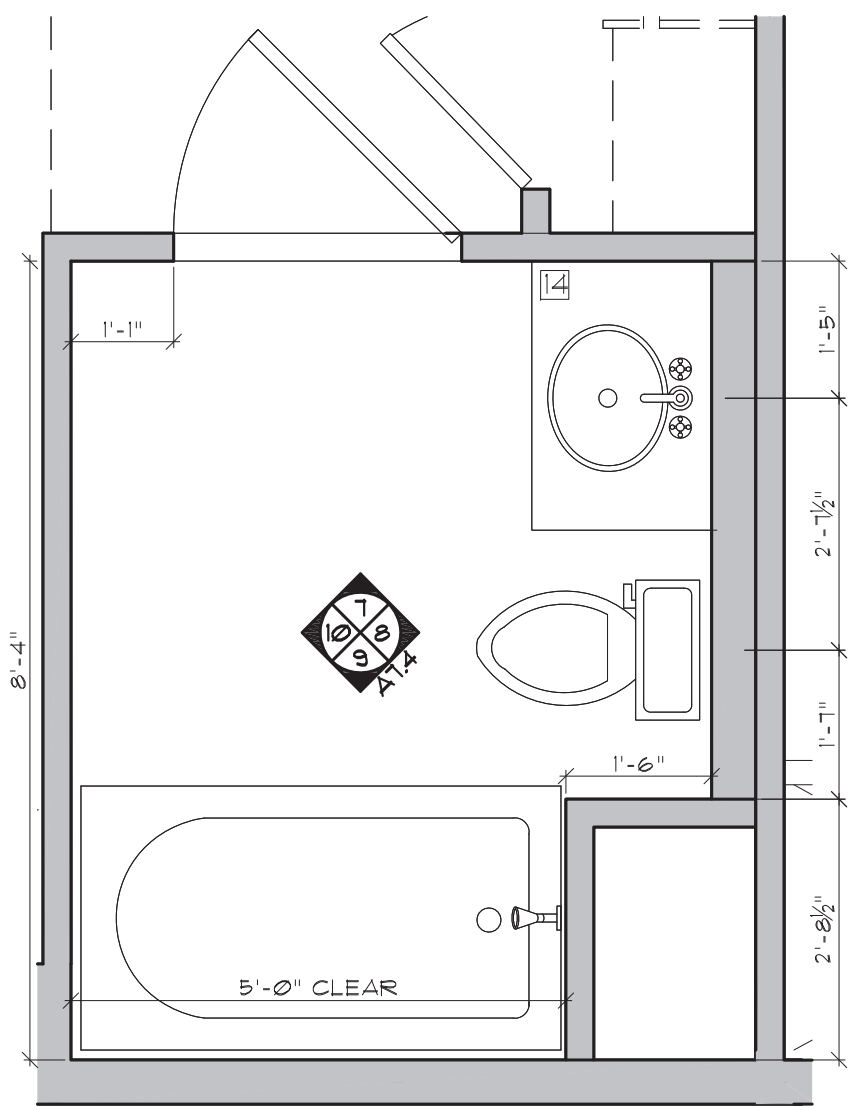
- (1) PROVIDE IN-WALL BLOCKING FOR FUTURE GRAB BARS.
- (2) PROVIDE REMOVABLE CABINETS, RUN FLOOR AND WALL FINISHES UNDER COUNTERTOPS/ CABINETS



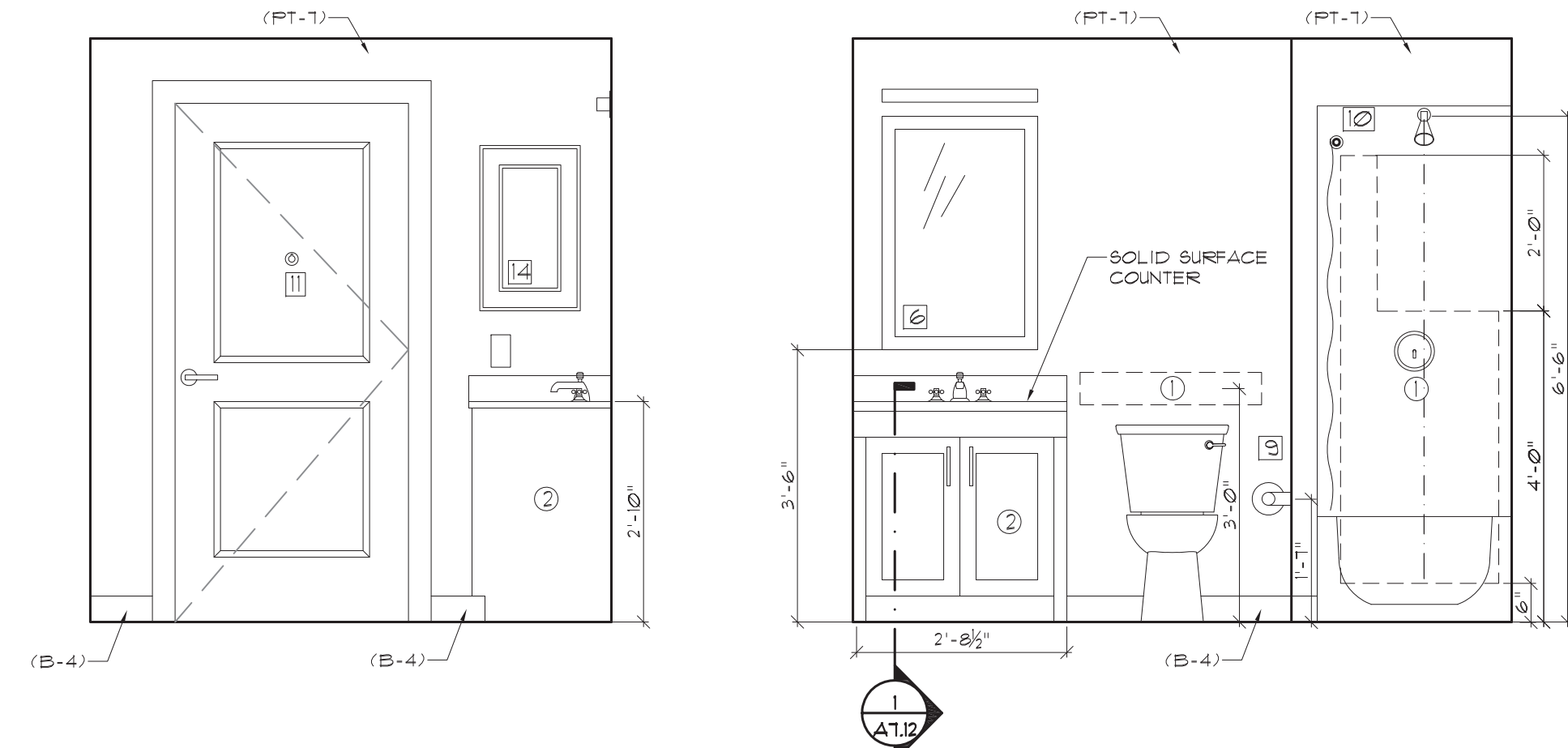
(3)

(4)

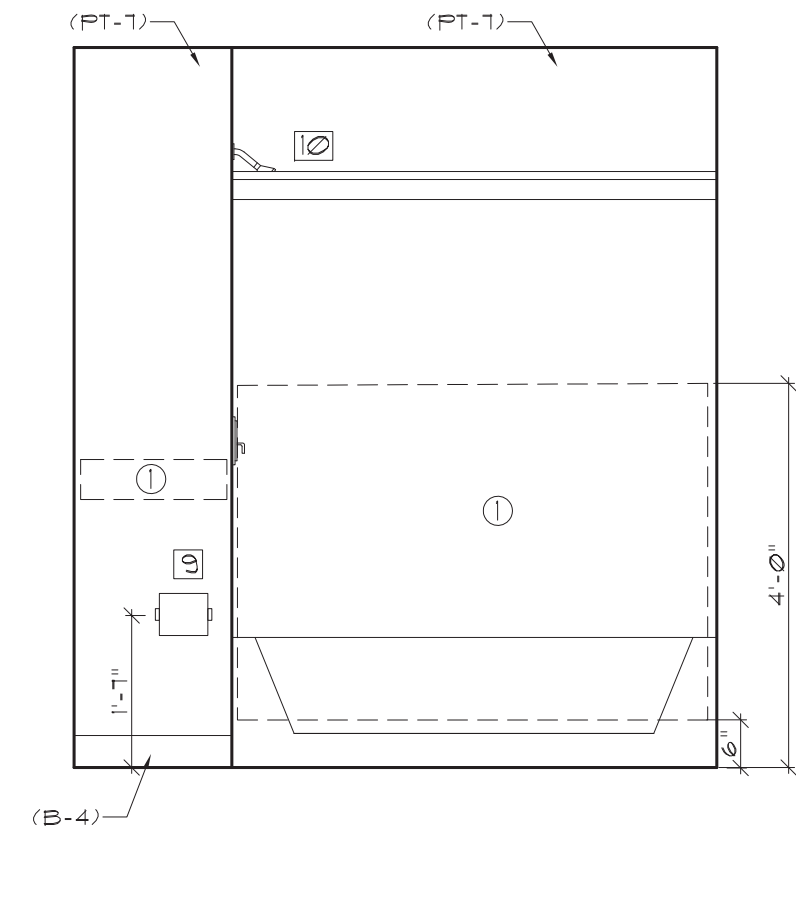
(5) 1/2" = 1'-0"



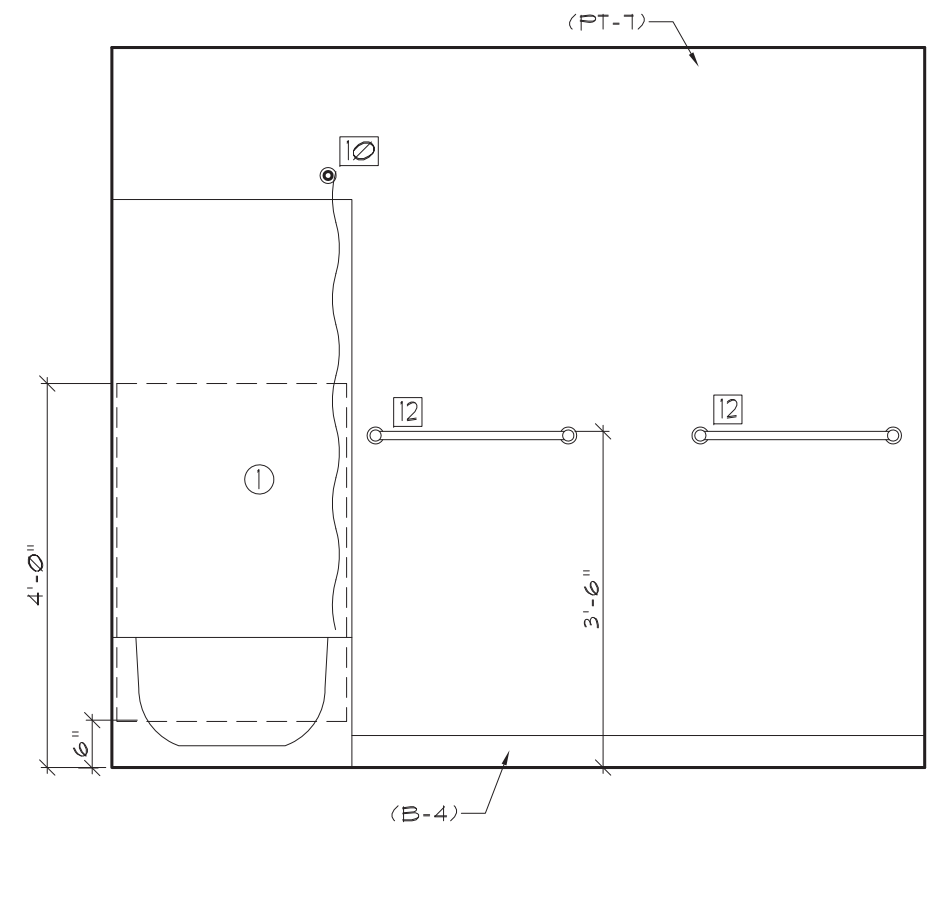
ENLARGED BATH 2 PLAN (6)  
TYPE 1 UNIT PLAN - GROUP 1



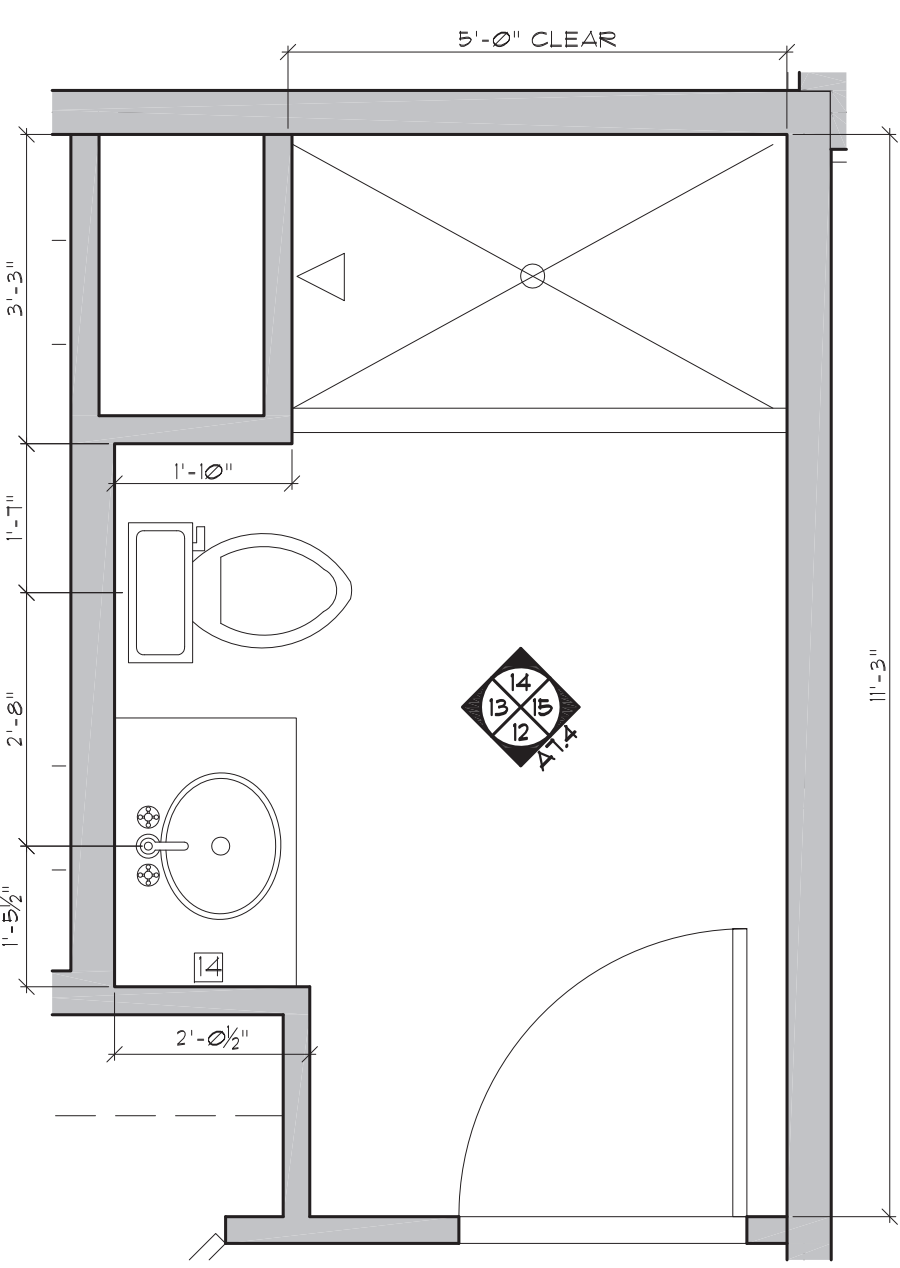
BATH 2 ELEVATIONS (7)



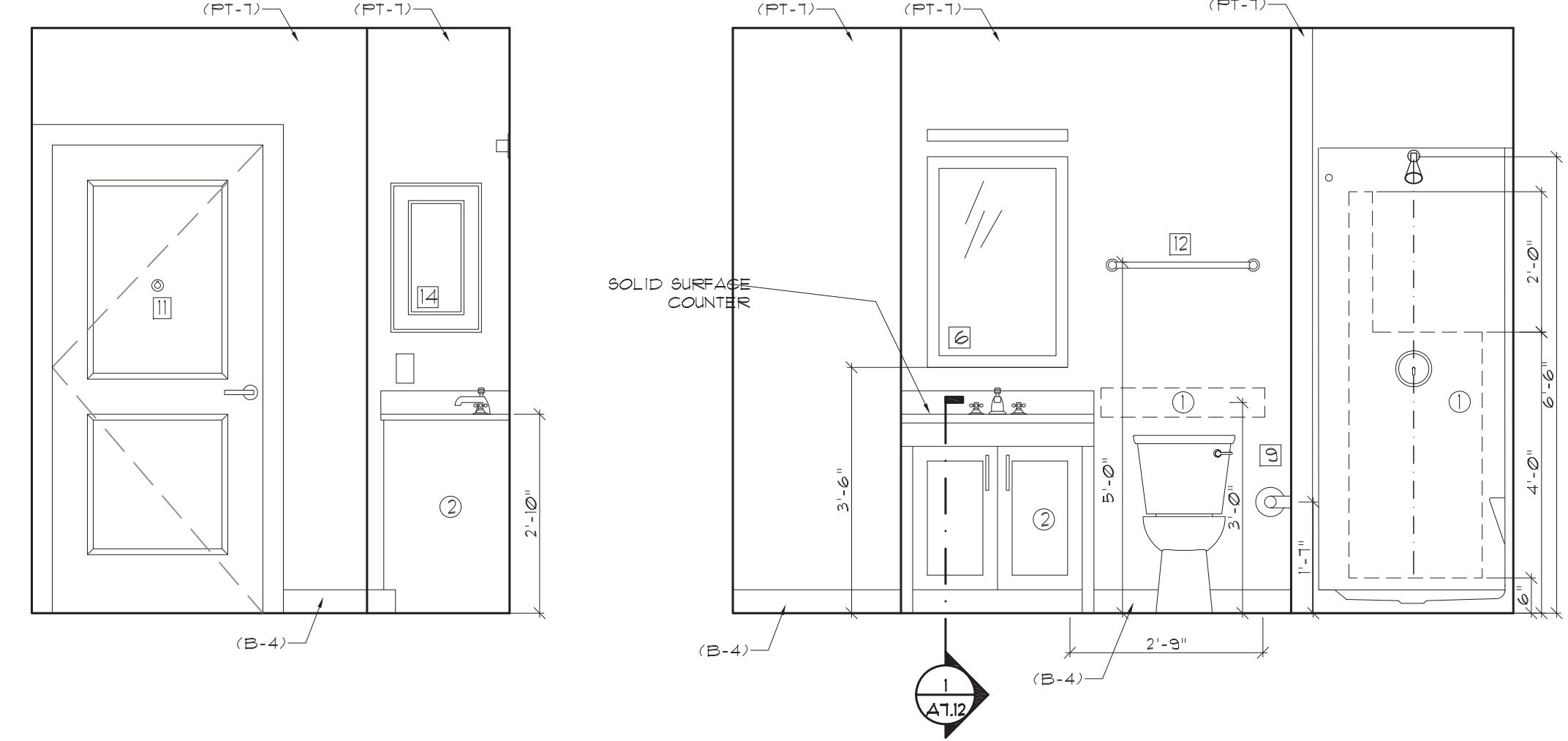
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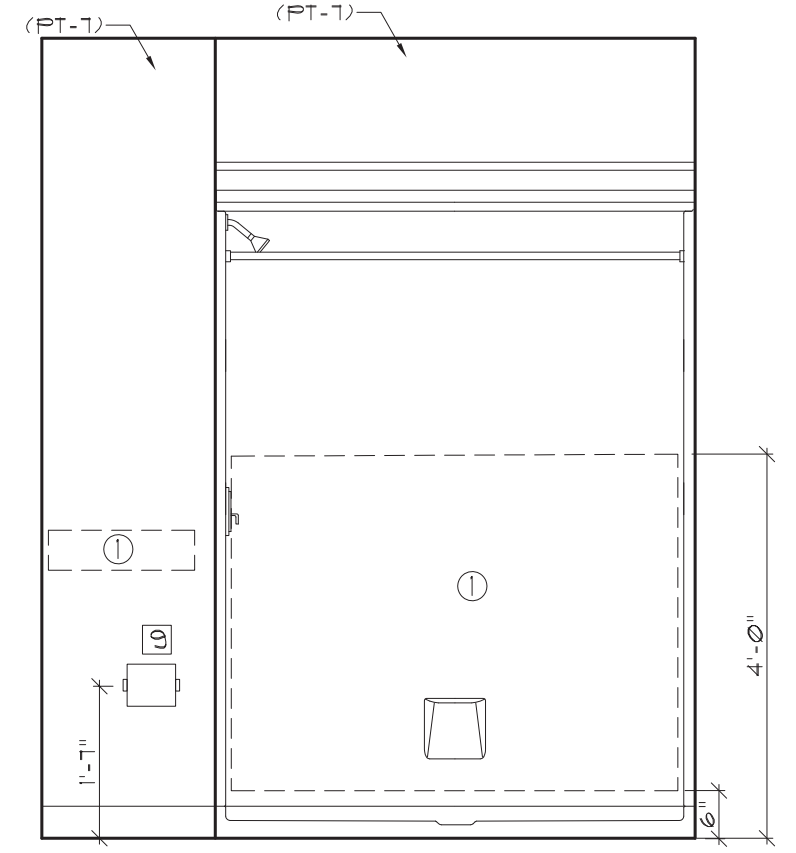
(9) 1/2" = 1'-0"



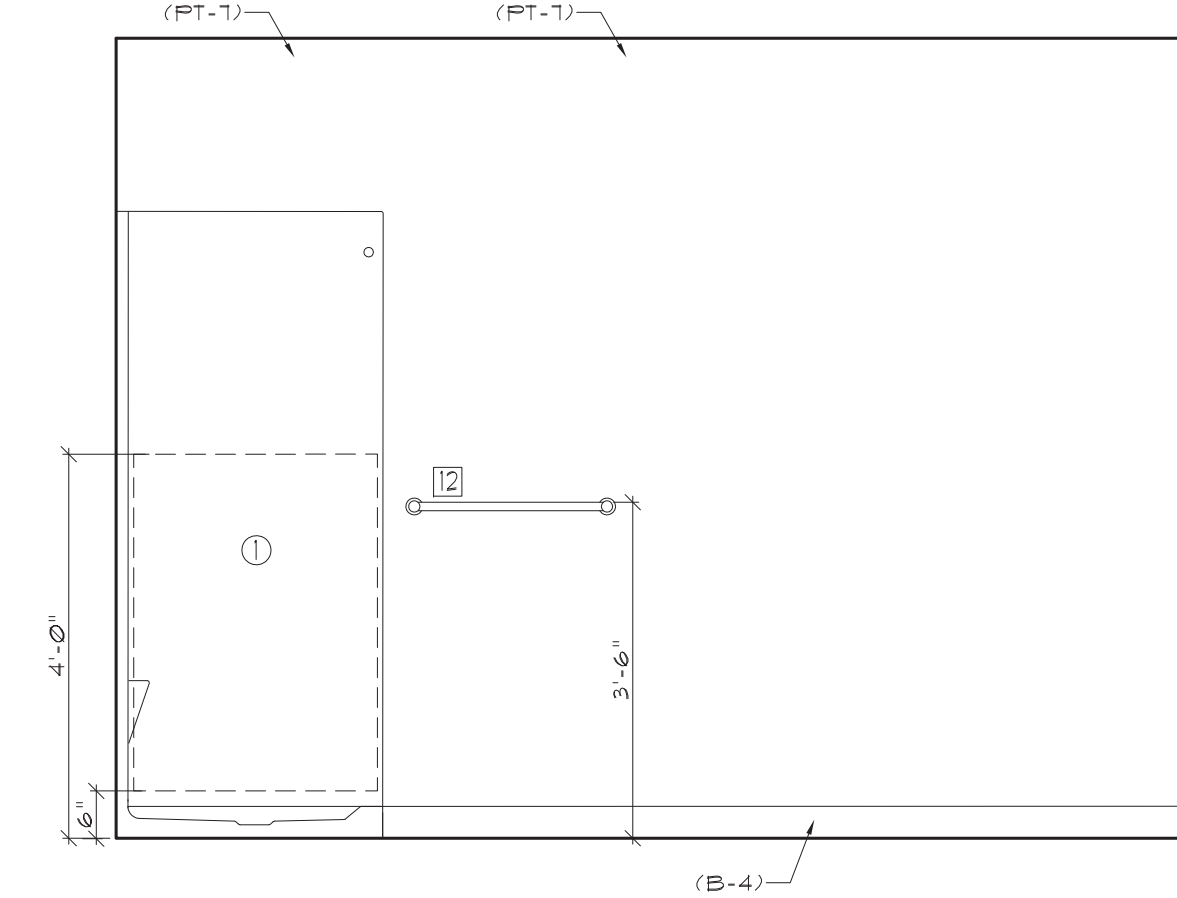
ENLARGED BATH 1 PLAN (11)  
TYPE 2 UNIT PLAN - GROUP 1



BATH 1 ELEVATIONS (12)



(13)



(14)

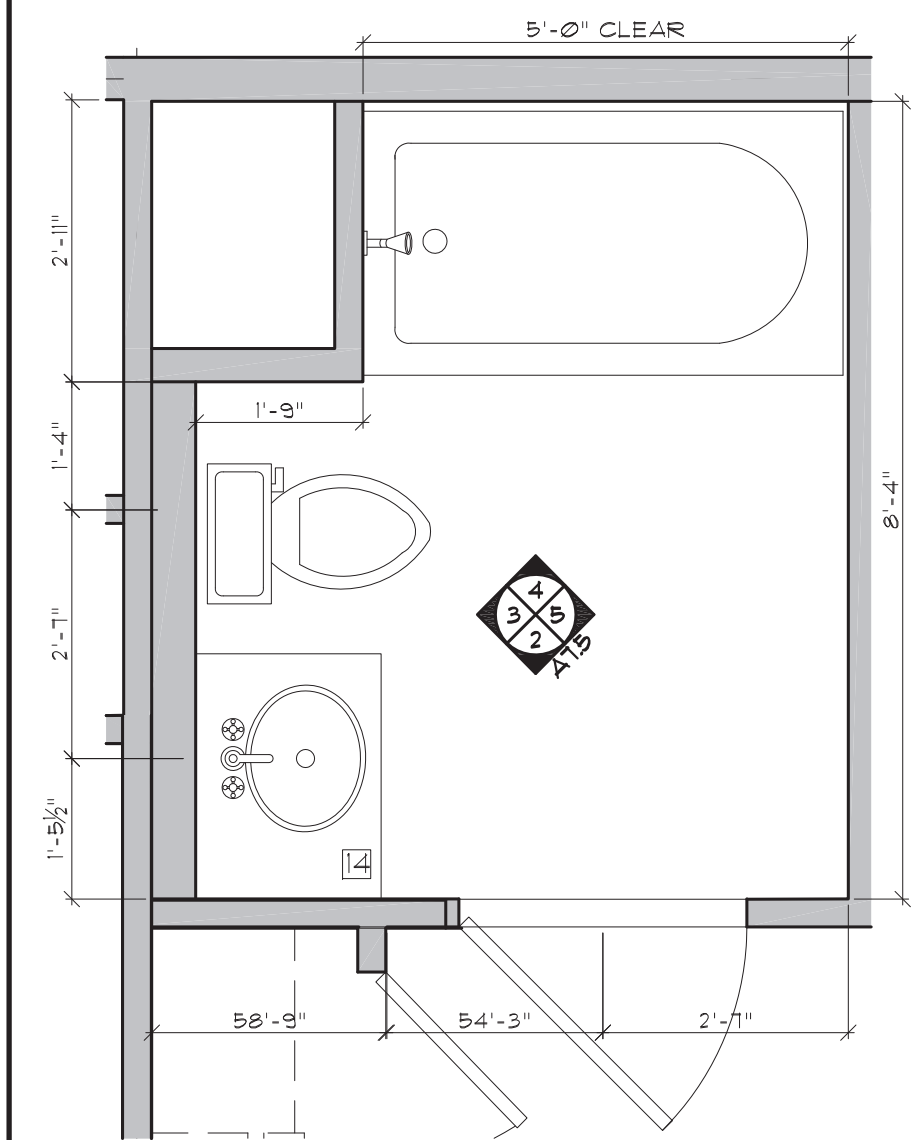
(15) 1/2" = 1'-0"

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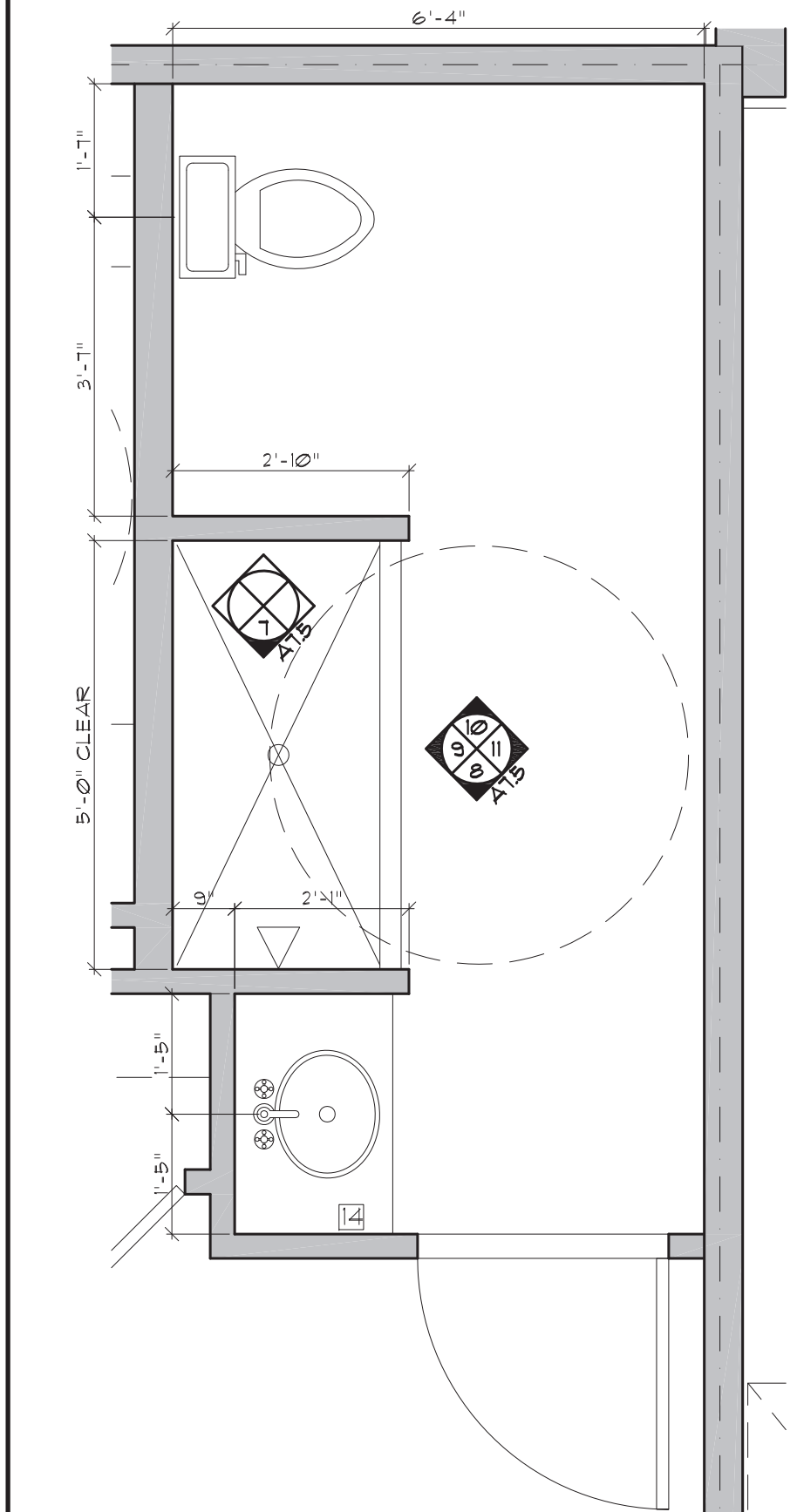


SHEET CONTENTS:  
Interior Elevations

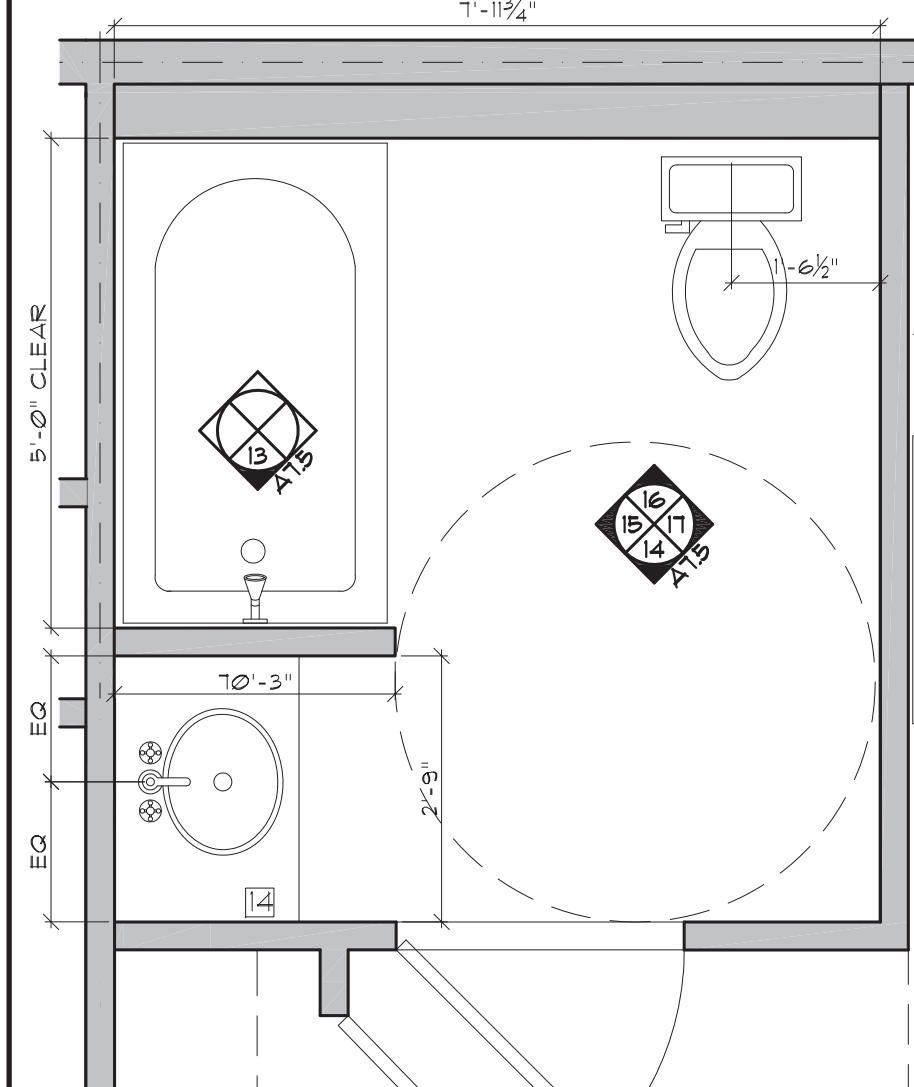
PROJECT # 1420  
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REVISED DATE:  
REVISED: 02/16/2021



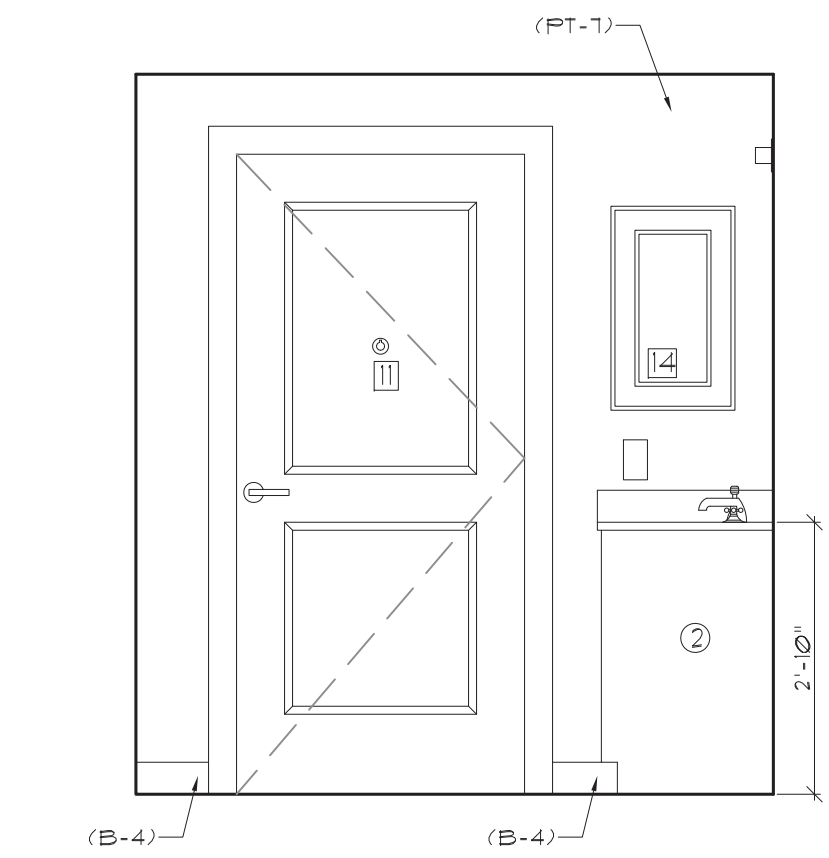
ENLARGED BATH 2 PLAN (1)  
TYPE 2 UNIT PLAN - GROUP 1



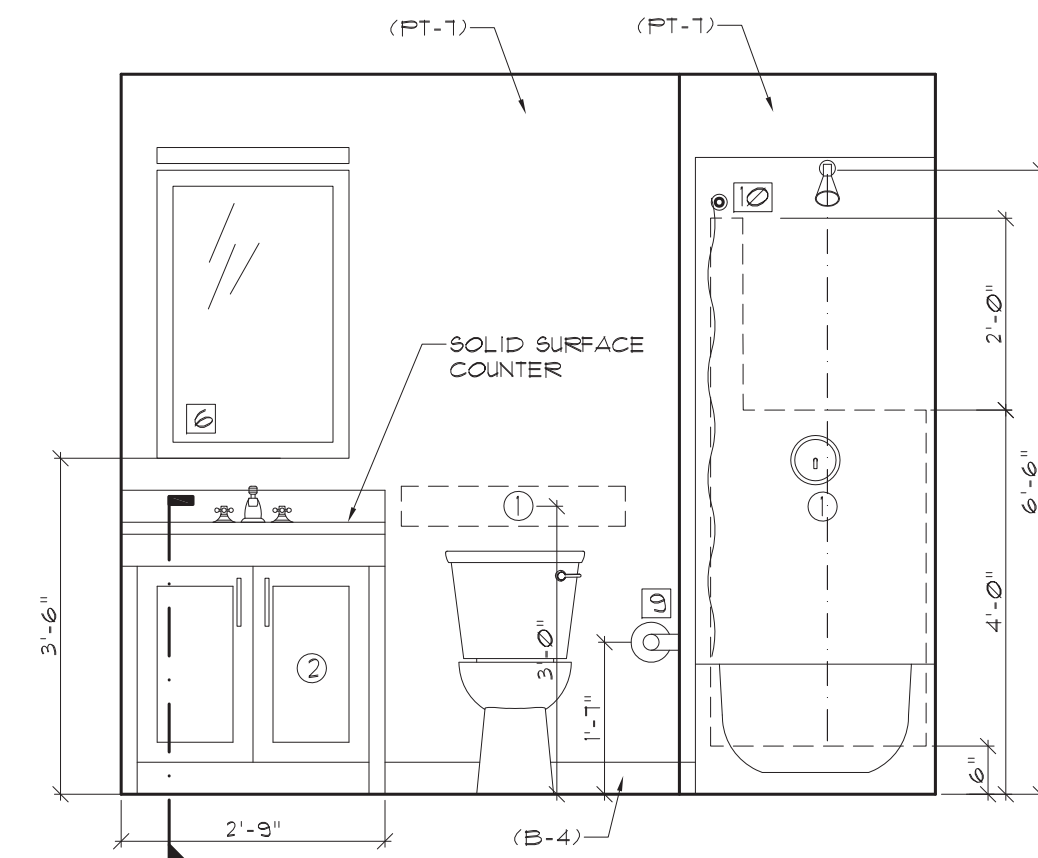
ENLARGED BATH 1 PLAN (6)  
TYPE 2 UNIT PLAN - (ADA)



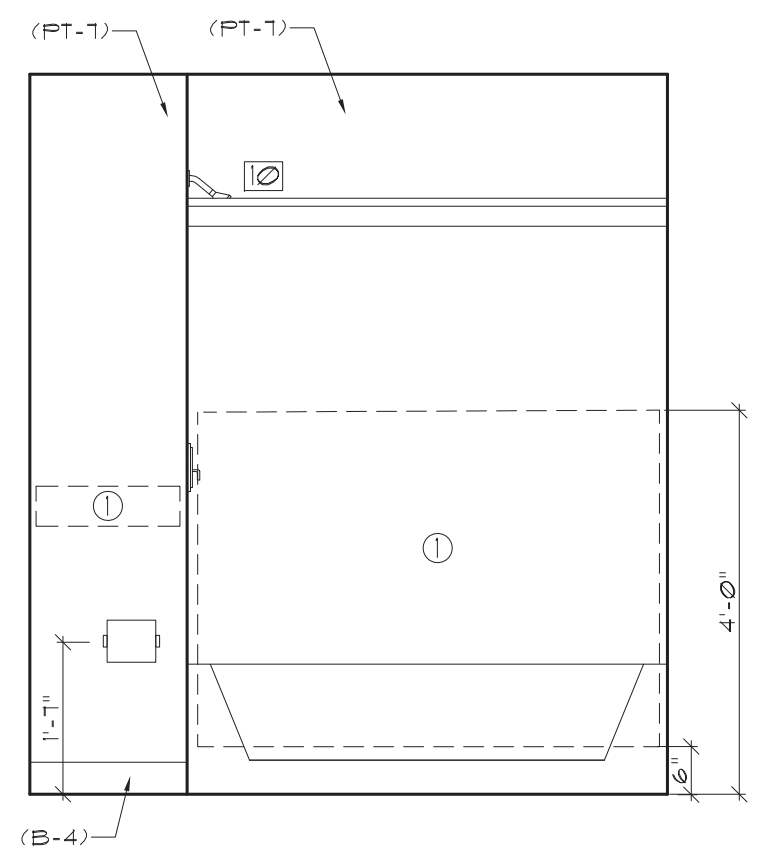
ENLARGED BATH 2 PLAN (12)  
TYPE 2 UNIT PLAN - (ADA)



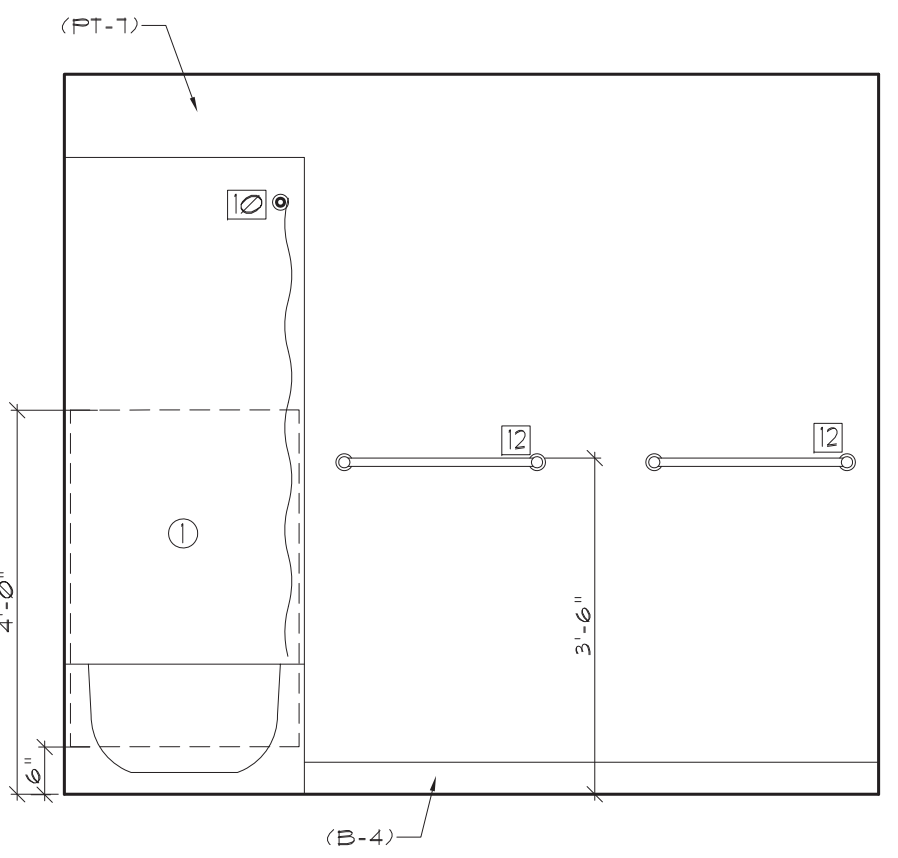
BATH 2 ELEVATIONS (2)



BATH 2 ELEVATIONS (3)



BATH 2 ELEVATIONS (4)



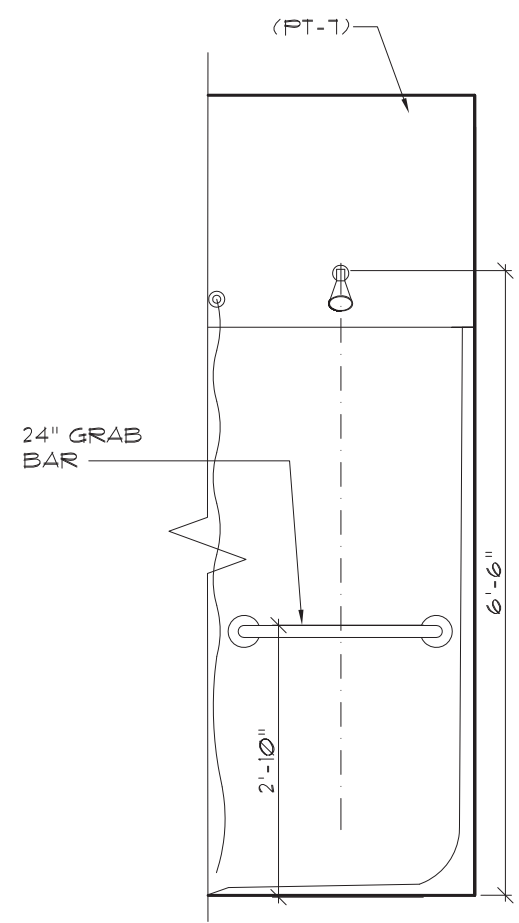
BATH 2 ELEVATIONS (5)

**FINISH NOTES:**

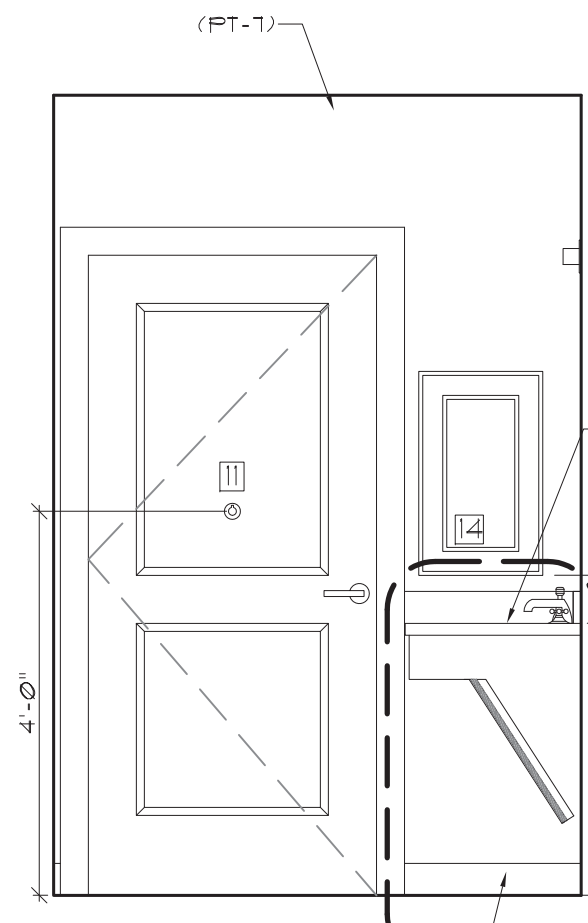
1. TRANSITION STRIPS AT ALL CHANGES IN FLOORING FINISHES. CHANGE IN LEVEL IN FLOOR SURFACES SHALL NOT EXCEED 1/4" AND SLOPE OF THRESHOLD SHALL NOT BE GREATER THAN 1:2, IN COMPLIANCE WITH THE AMERICAN DISABILITIES ACT
2. DO NOT PAINT ALUMINUM DOORS
3. ALL FLOOR FINISHES TO CONTINUE INTO ADJACENT CLOSETS
4. AT ALL "GROUP 1" AND "GROUP 2A" UNITS PROVIDE IN-WALL BLOCKING FOR FUTURE GRAB BARS.
5. AT ALL ADA UNITS; BATH #1, PROVIDE AND INSTALL GRAB BARS, AS INDICATED ON DRAWINGS.
6. AT ALL ADA UNITS; BATH #2, PROVIDE IN-WALL WOOD BLOCKING AS INDICATED FOR FUTURE INSTALLATION OF GRAB BARS.
7. REFER TO ACCESSORY AND AFFILIANCE SCHEDULES ON A-8.2
8. PROVIDE IN-WALL BLOCKING FOR ALL BATHROOM ACCESSORIES

**KEY NOTES:**

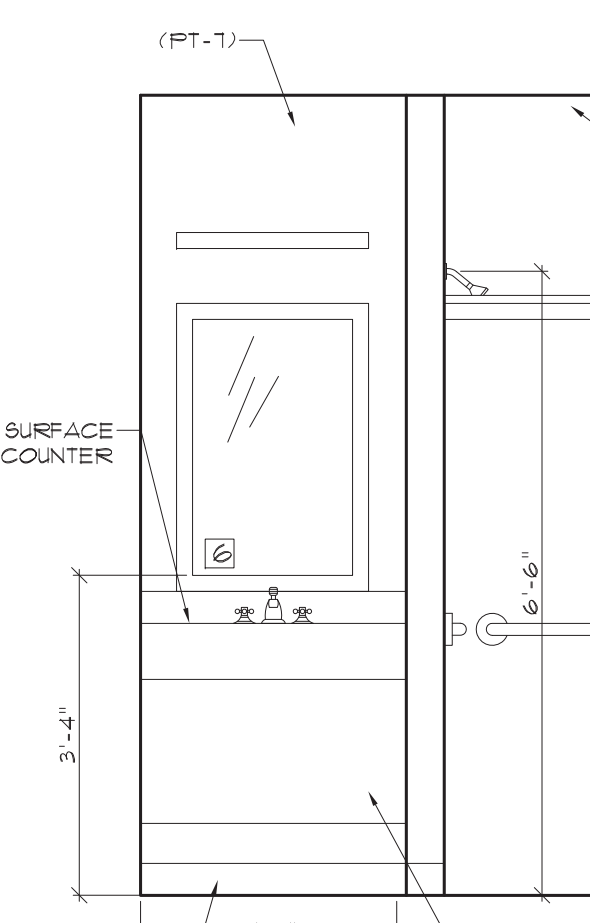
- 1 PROVIDE IN WALL BLOCKING FOR FUTURE GRAB BARS.
- 2 PROVIDE REMOVABLE CABINETS; RUN FLOOR AND WALL FINISHES UNDER COUNTERTOPS/ CABINETS



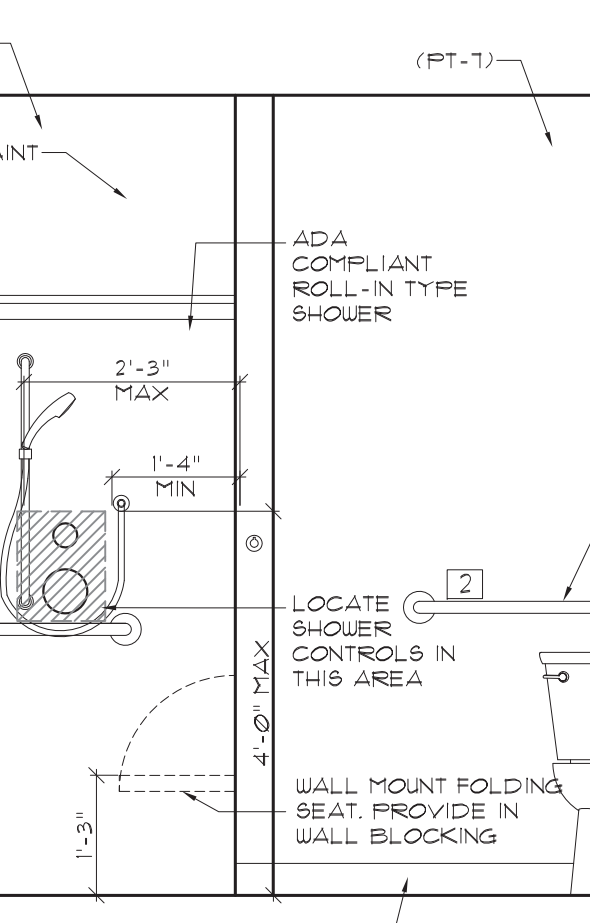
BATH 1 ELEVATIONS (7)



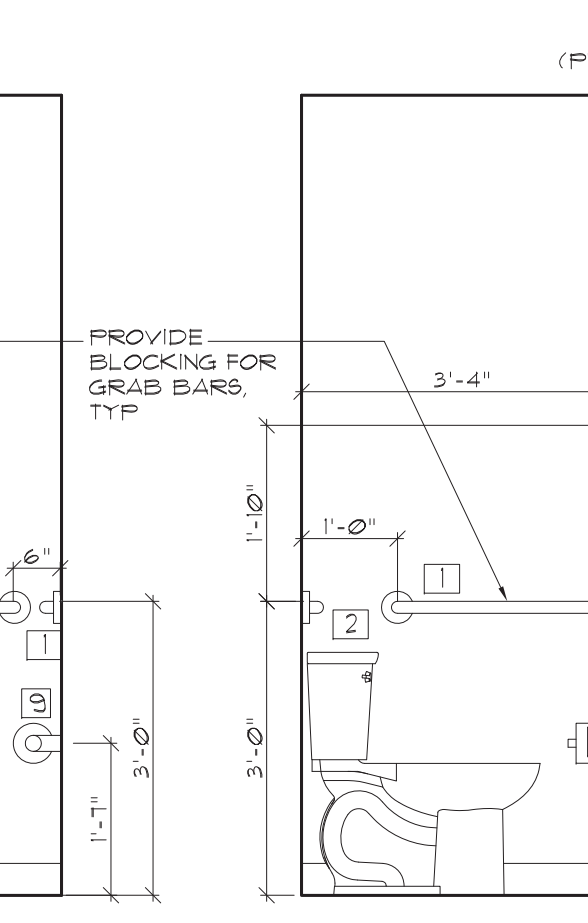
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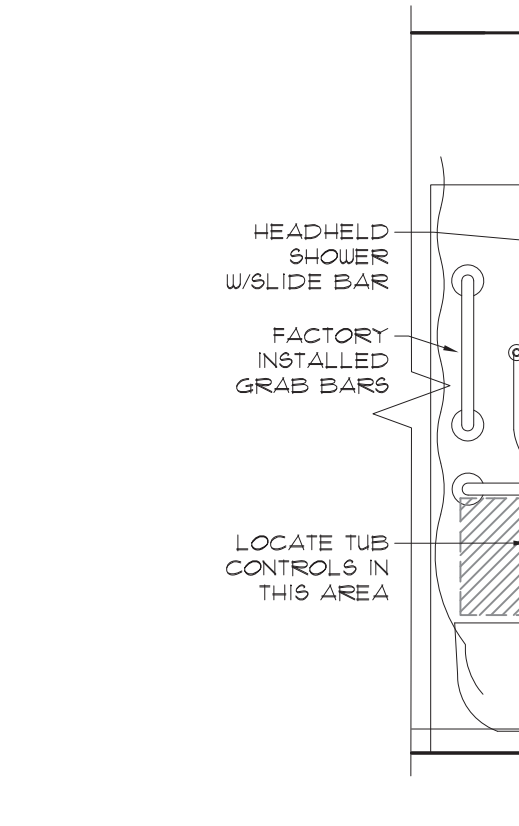
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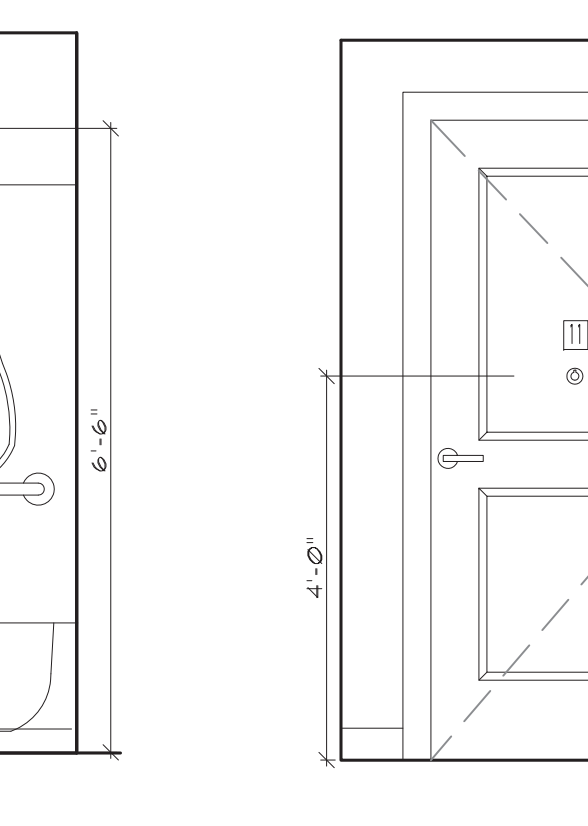
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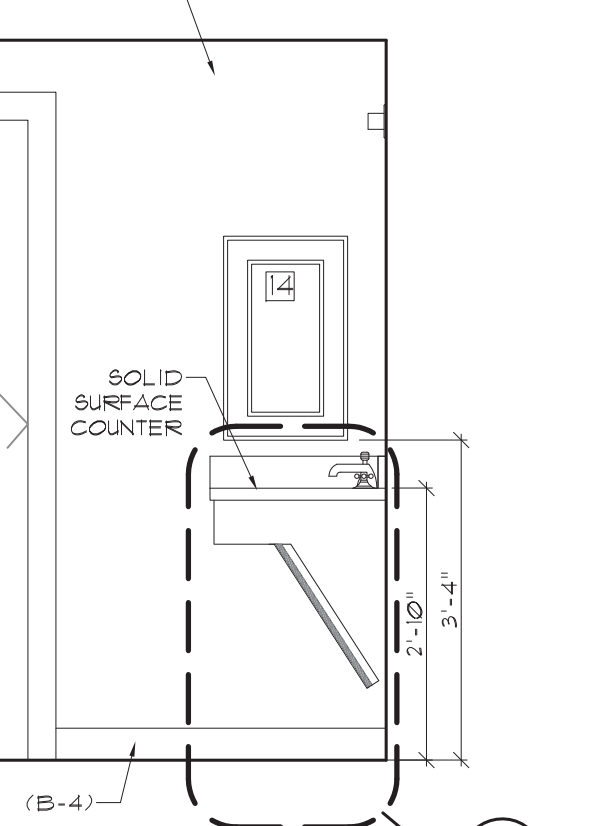
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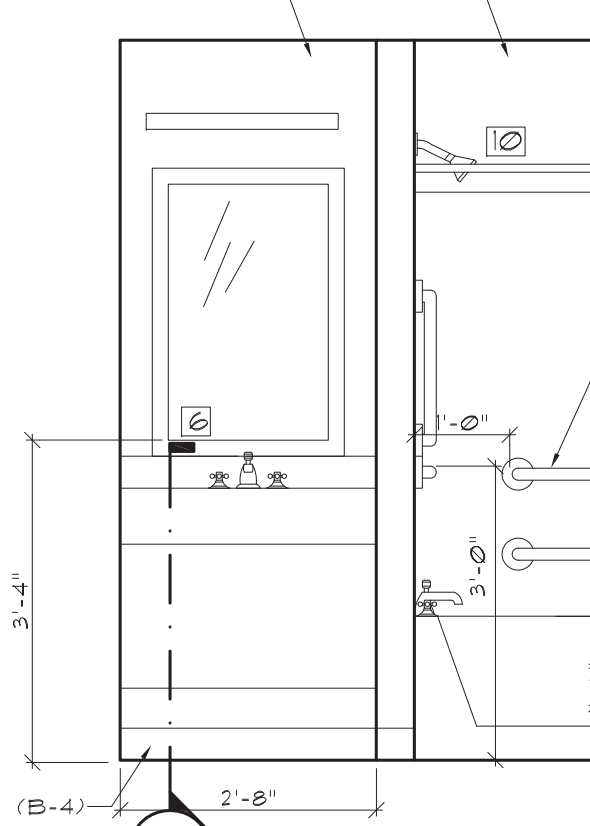
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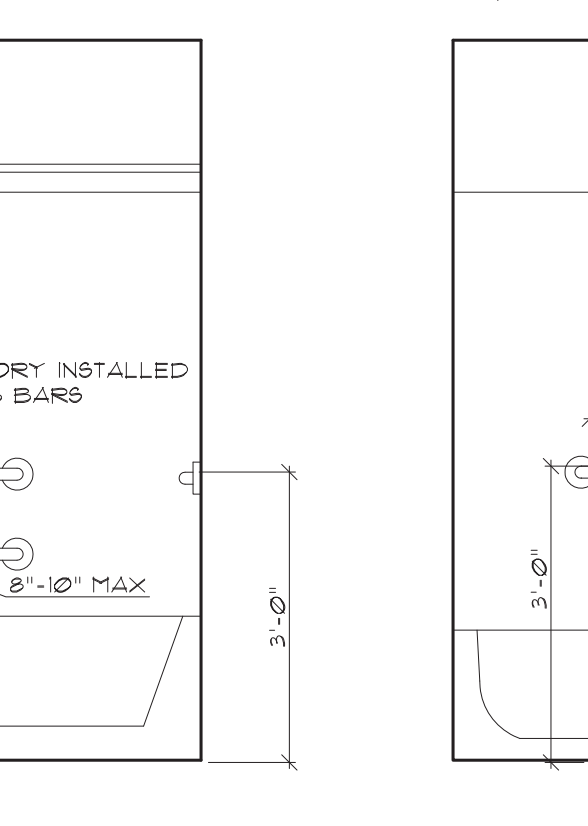
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BATH 1 ELEVATIONS (15)



BATH 1 ELEVATIONS (16)



BATH 1 ELEVATIONS (17)



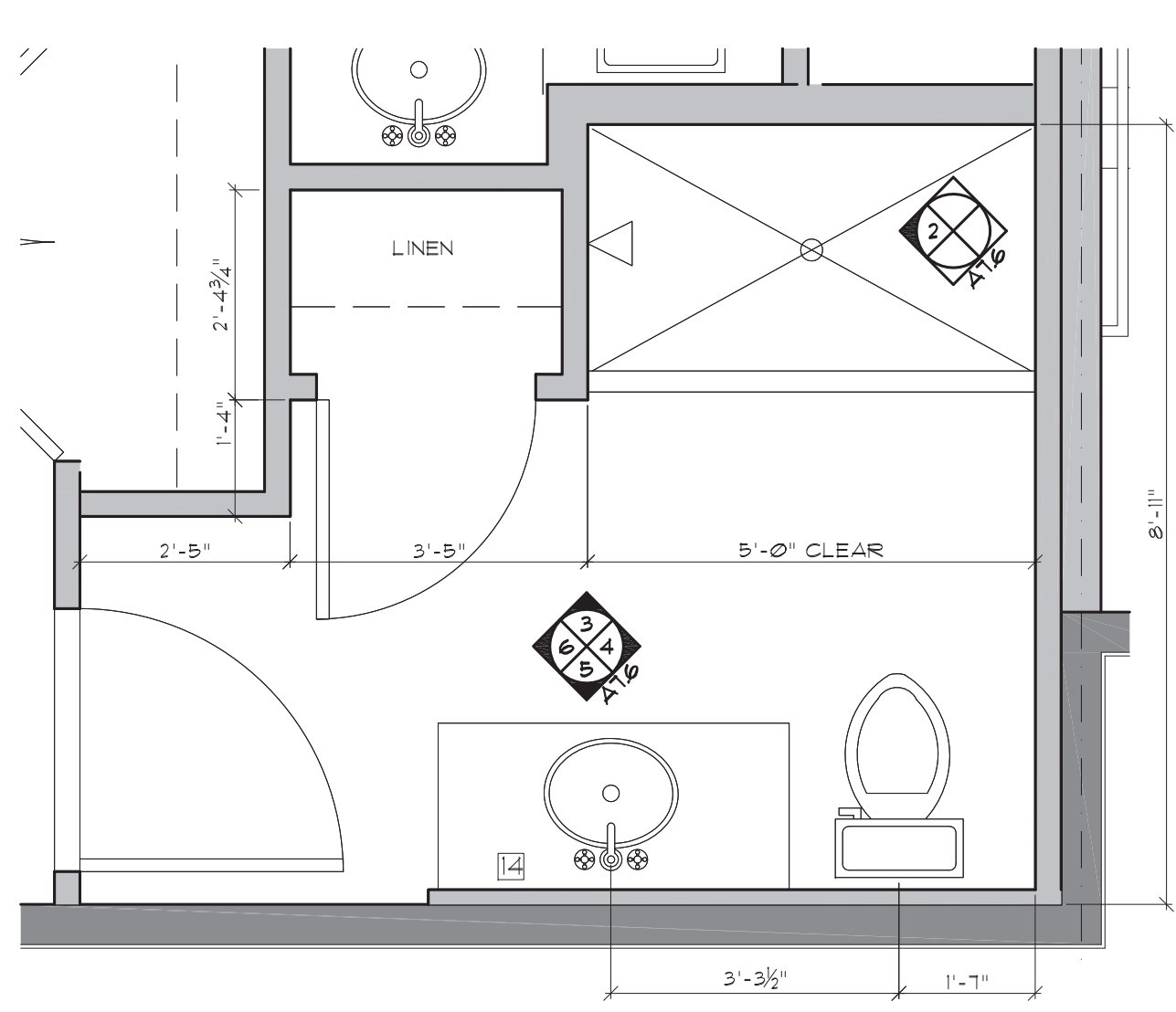
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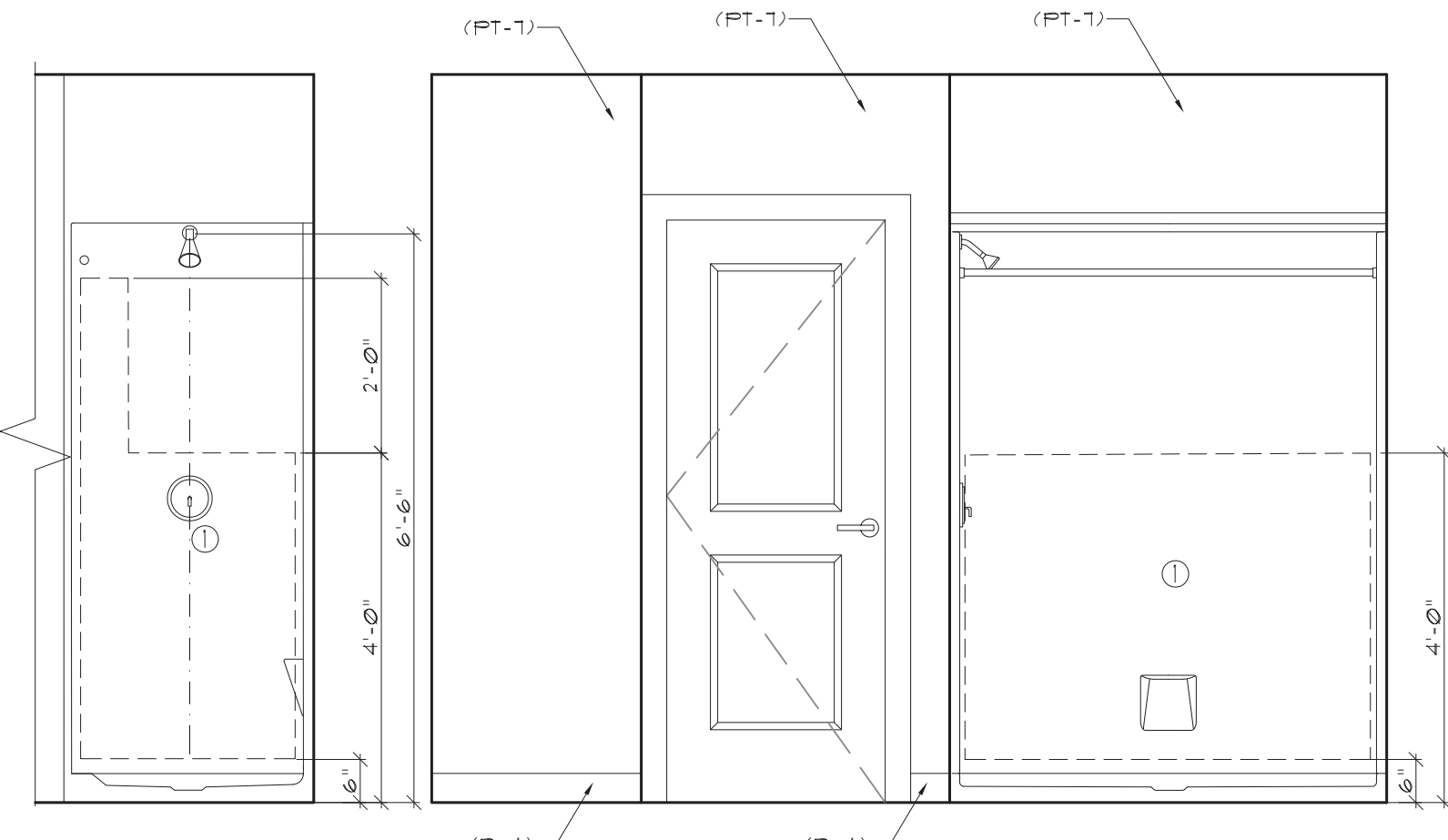
- TRANSITION STRIPS AT ALL CHANGES IN FLOORING FINISHES. CHANGE IN LEVEL IN FLOOR SURFACES SHALL NOT EXCEED 1/4" AND SLOPE OF THRESHOLD SHALL NOT BE GREATER THAN 1:2, IN COMPLIANCE WITH THE AMERICAN DISABILITIES ACT
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- ALL FLOOR FINISHES TO CONTINUE INTO ADJACENT CLOSETS
- AT ALL "GROUP 1" AND "GROUP 2A" UNITS PROVIDE IN-WALL BLOCKING FOR FUTURE GRAB BARS.
- AT ALL ADA UNITS: BATH #1, PROVIDE AND INSTALL GRAB BARS AS INDICATED ON DRAWINGS.
- AT ALL ADA UNITS: BATH #2, PROVIDE IN-WALL WOOD BLOCKING AS INDICATED FOR FUTURE INSTALLATION OF GRAB BARS.
- REFER TO ACCESSORY AND AFFIXANCE SCHEDULES ON A82
- PROVIDE IN-WALL BLOCKING FOR ALL BATHROOM ACCESSORIES

**KEY NOTES:**

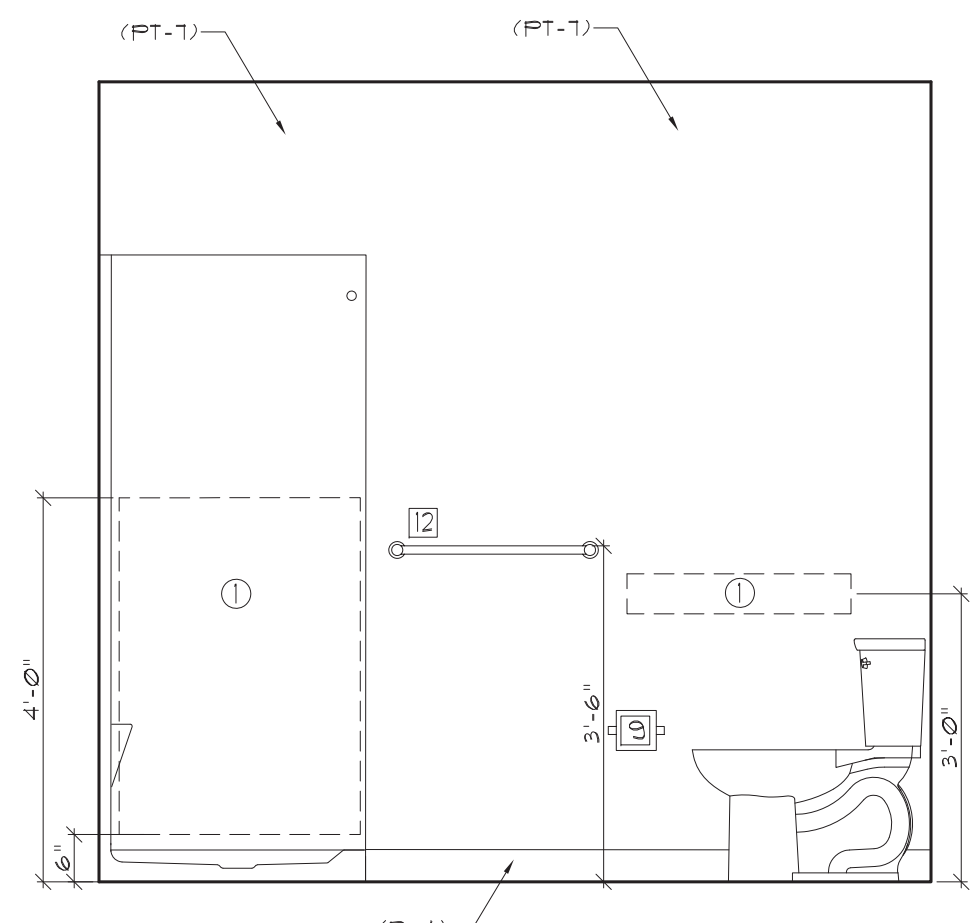
- PROVIDE IN-WALL BLOCKING FOR FUTURE GRAB BARS.
- PROVIDE REMOVABLE CABINETS, RUN FLOOR AND WALL FINISHES UNDER COUNTERTOPS/ CABINETS



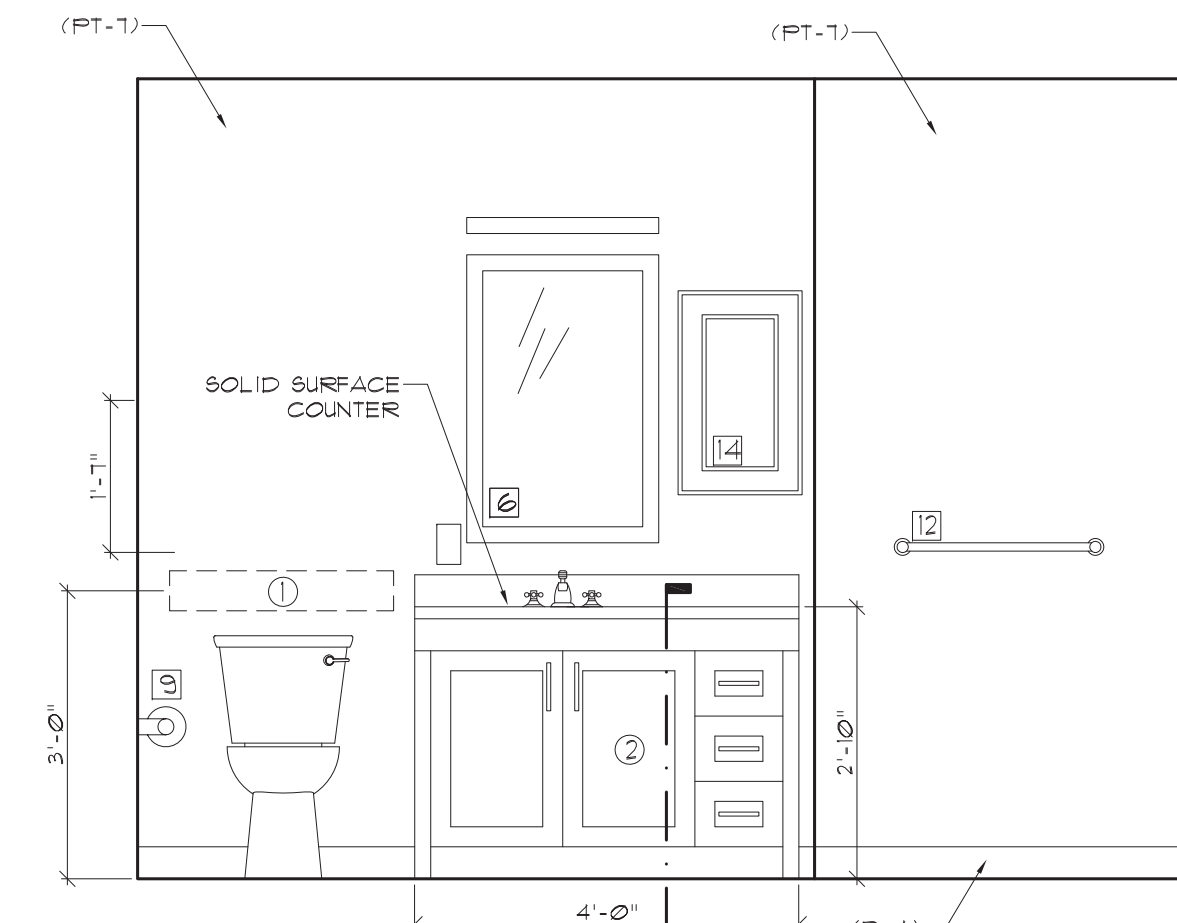
**ENLARGED BATH 1 PLAN (1)**  
TYPE 3 UNIT PLAN - GROUP 1



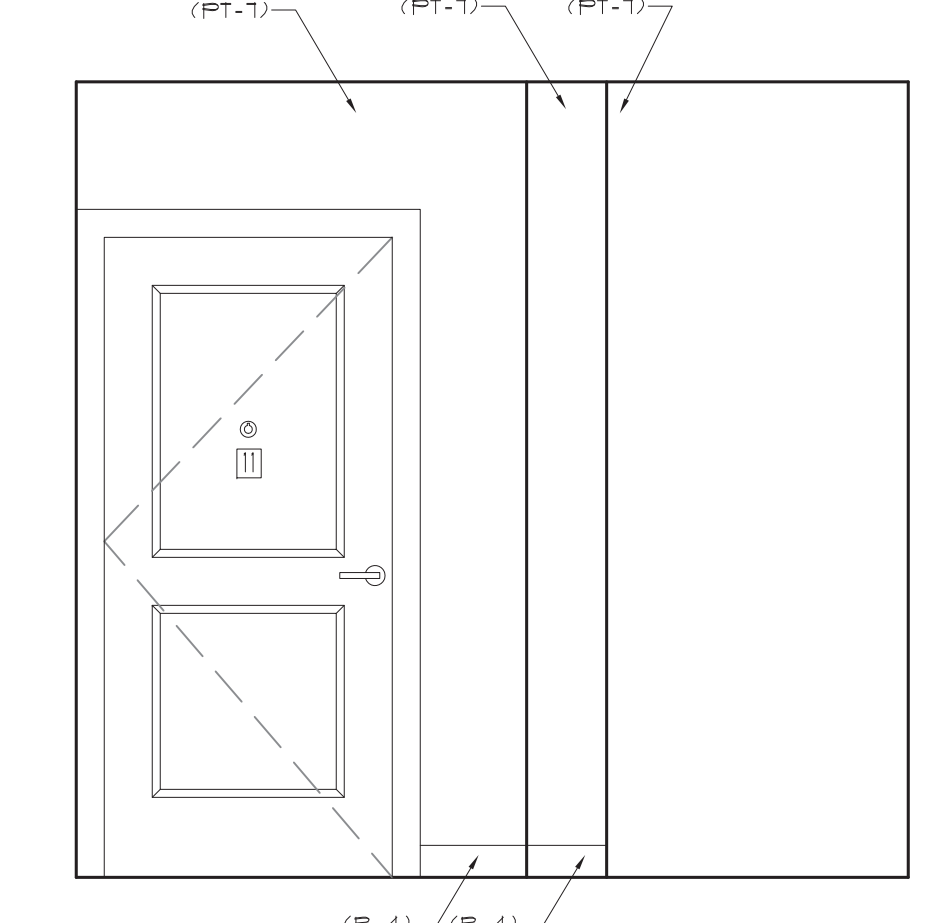
**BATH 1 (2)**  
ELEVATIONS



(3)

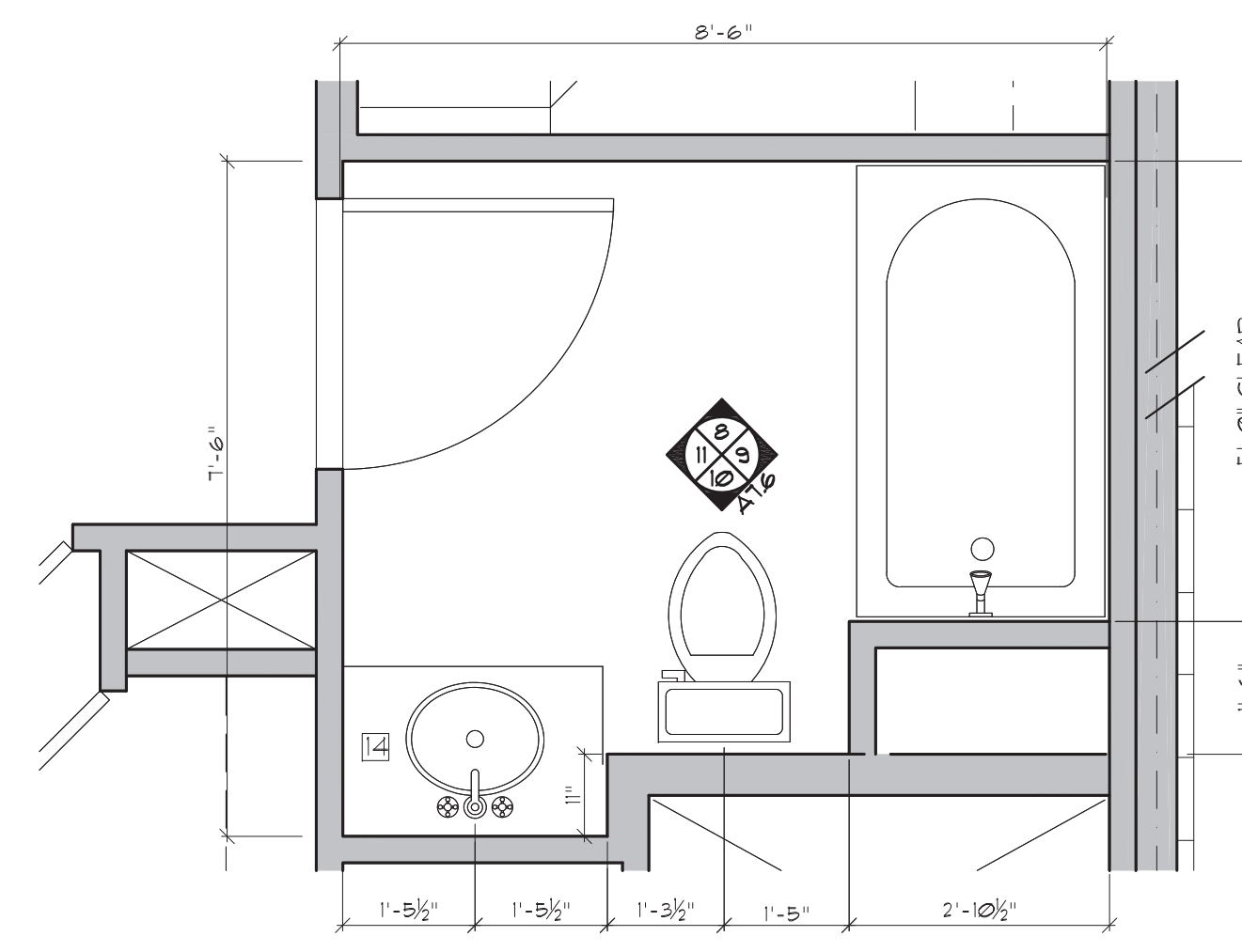


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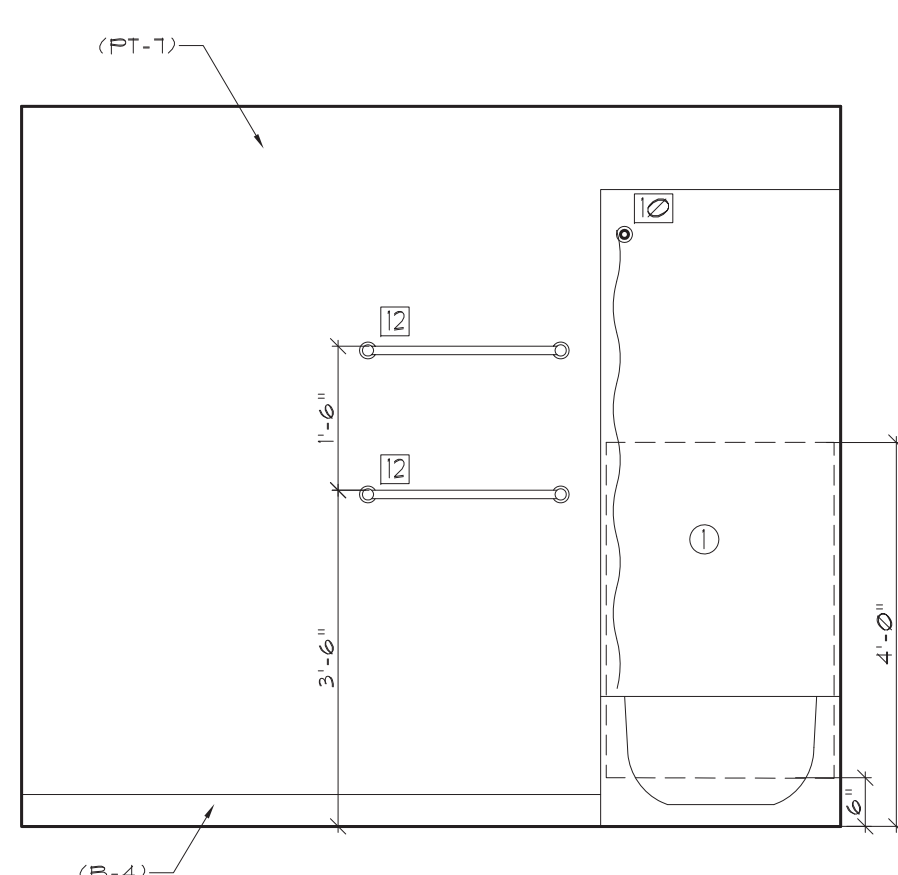


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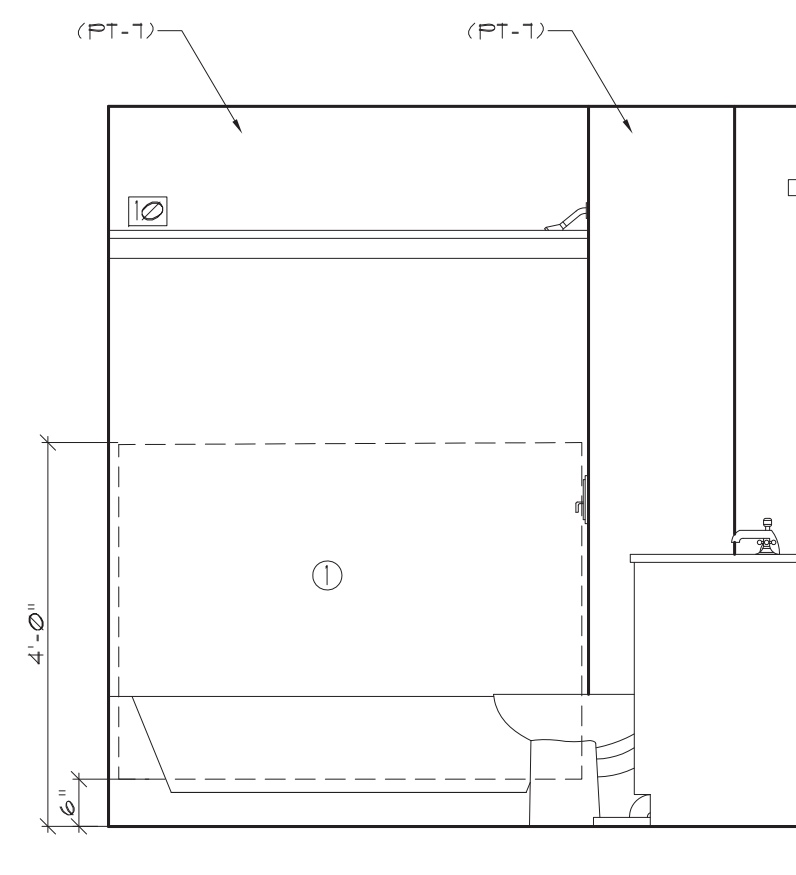
(6) 1/2" = 1'-0"



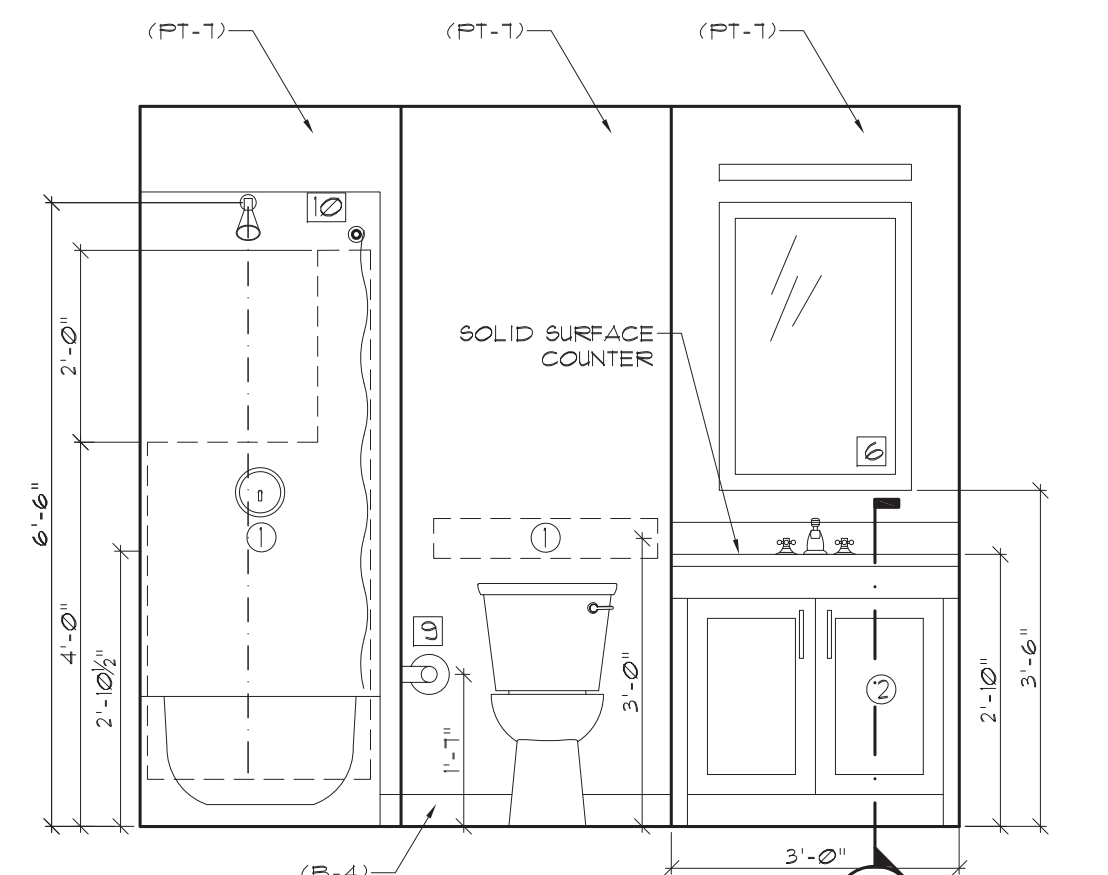
**ENLARGED BATH 2 PLAN (7)**  
TYPE 3 UNIT PLAN - GROUP 1



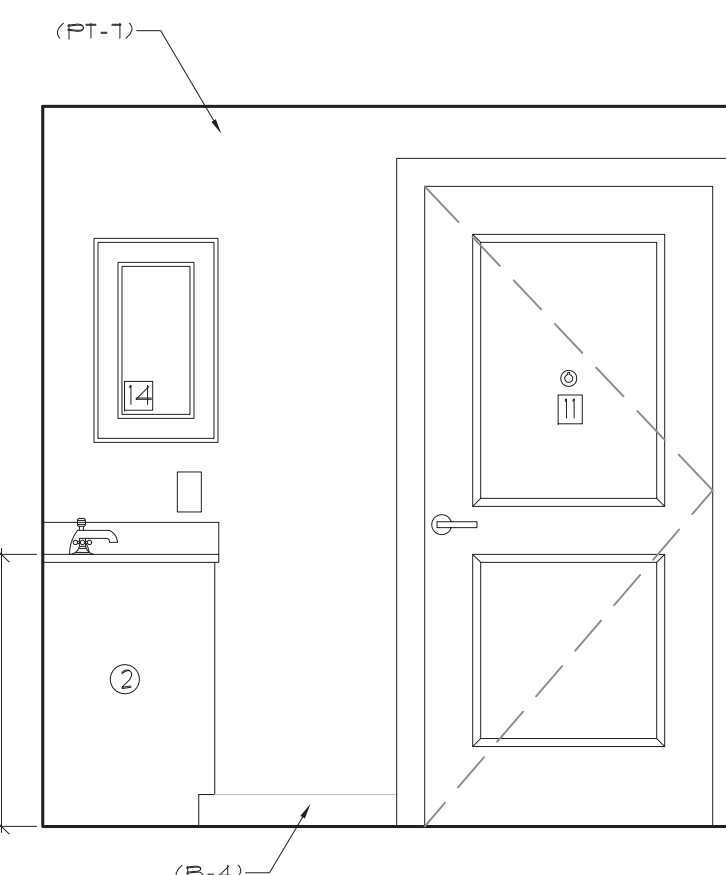
**BATH 2 ELEVATIONS (8)**



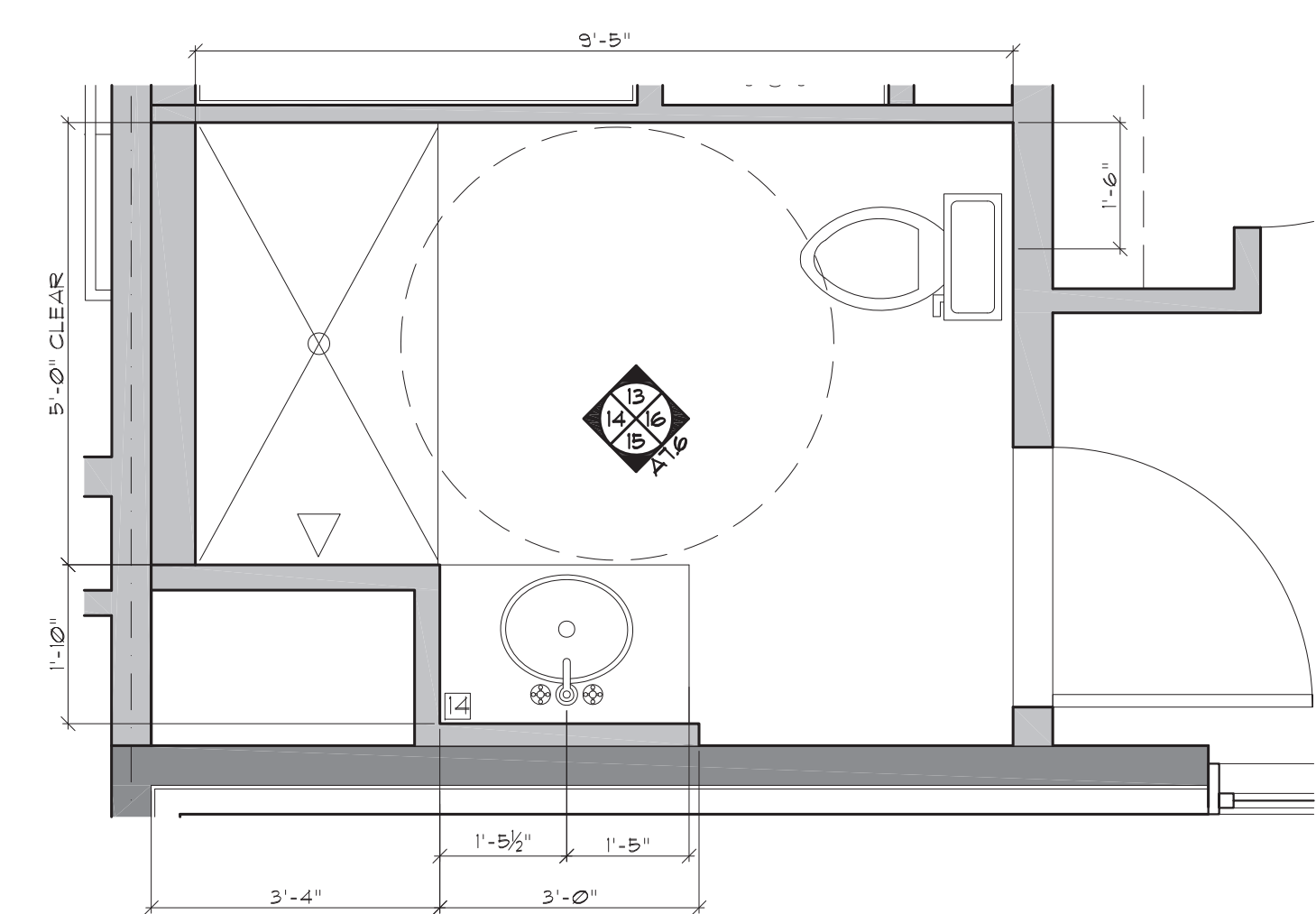
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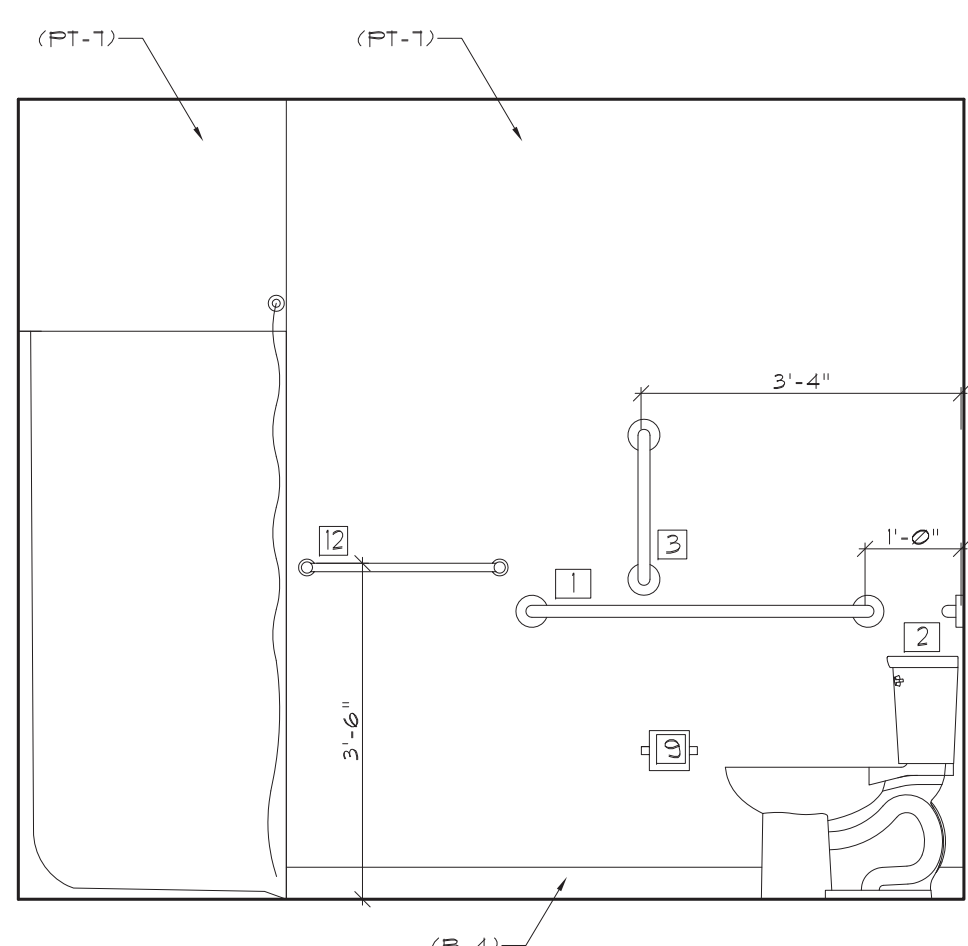
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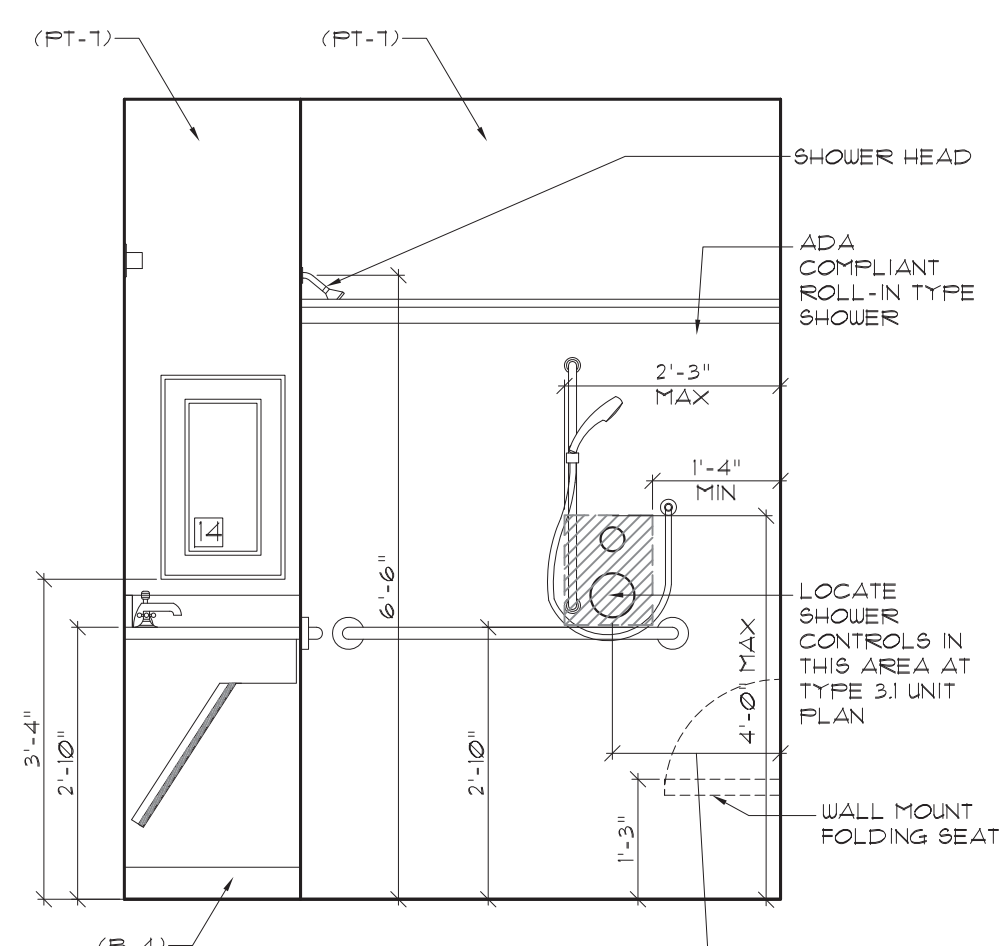
(11) 1/2" = 1'-0"



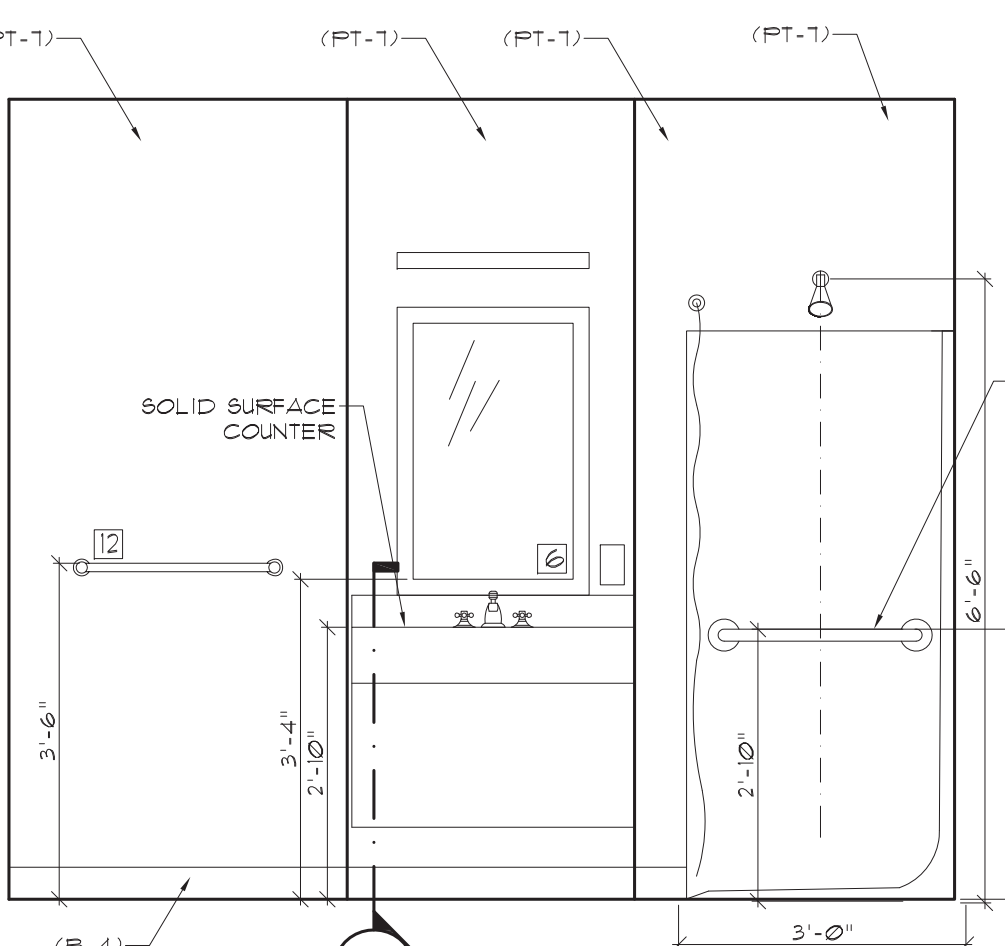
**ENLARGED BATH 1 PLAN (12)**  
TYPE 3.1 UNIT PLAN - FULLY ACCESSIBLE (ADA)



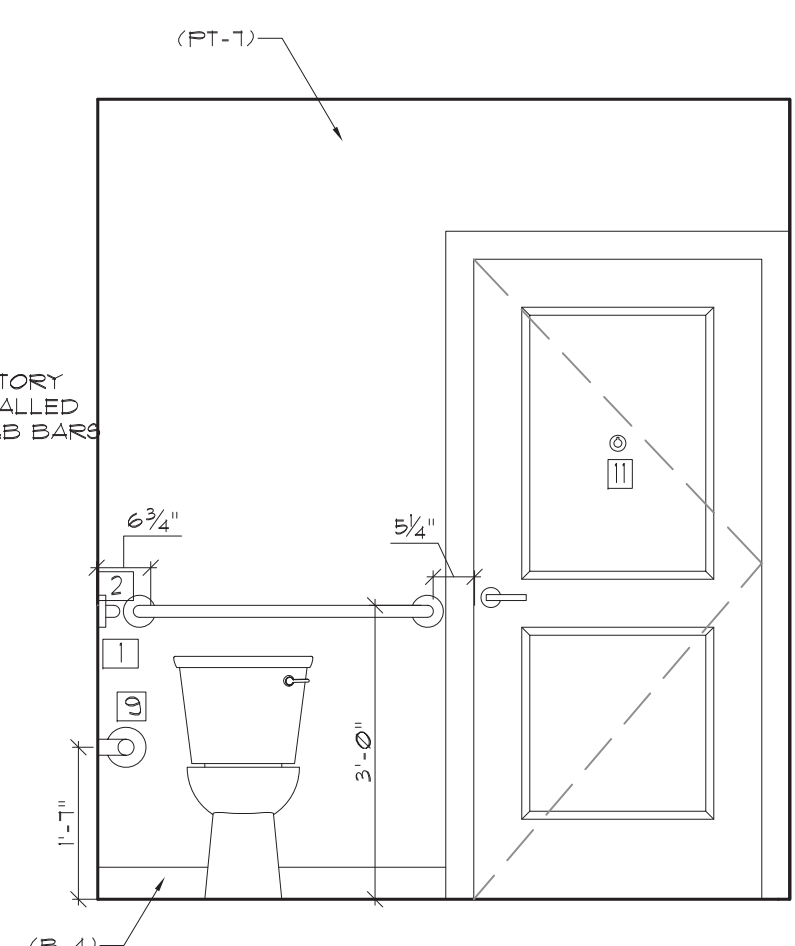
(13)



(14)



(15)



(16) 1/2" = 1'-0"

CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021



**SHEET CONTENTS:**  
Interior Elevations

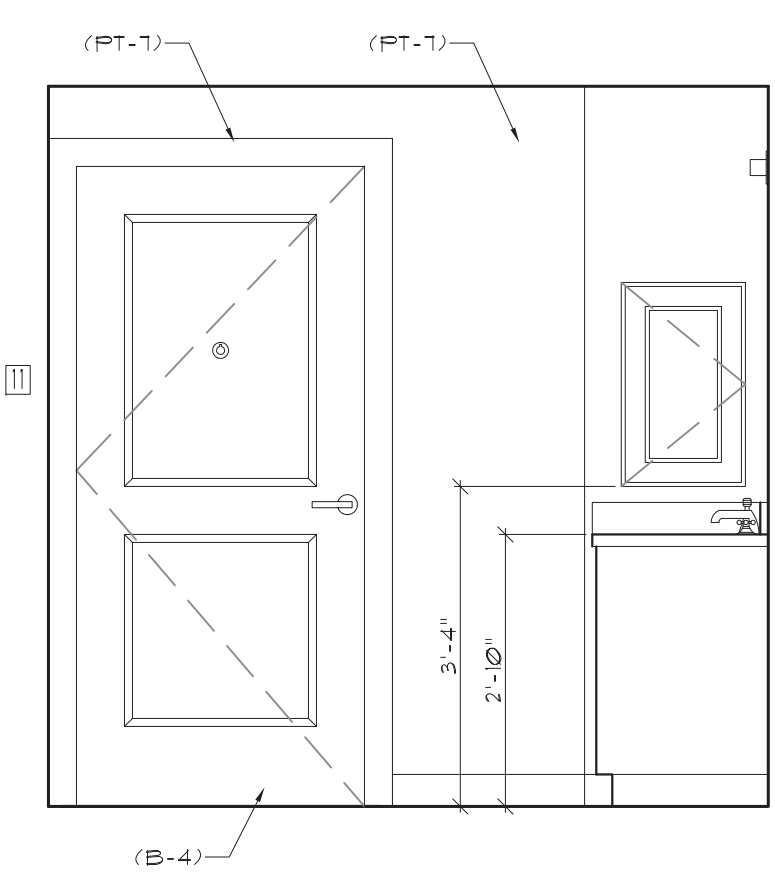
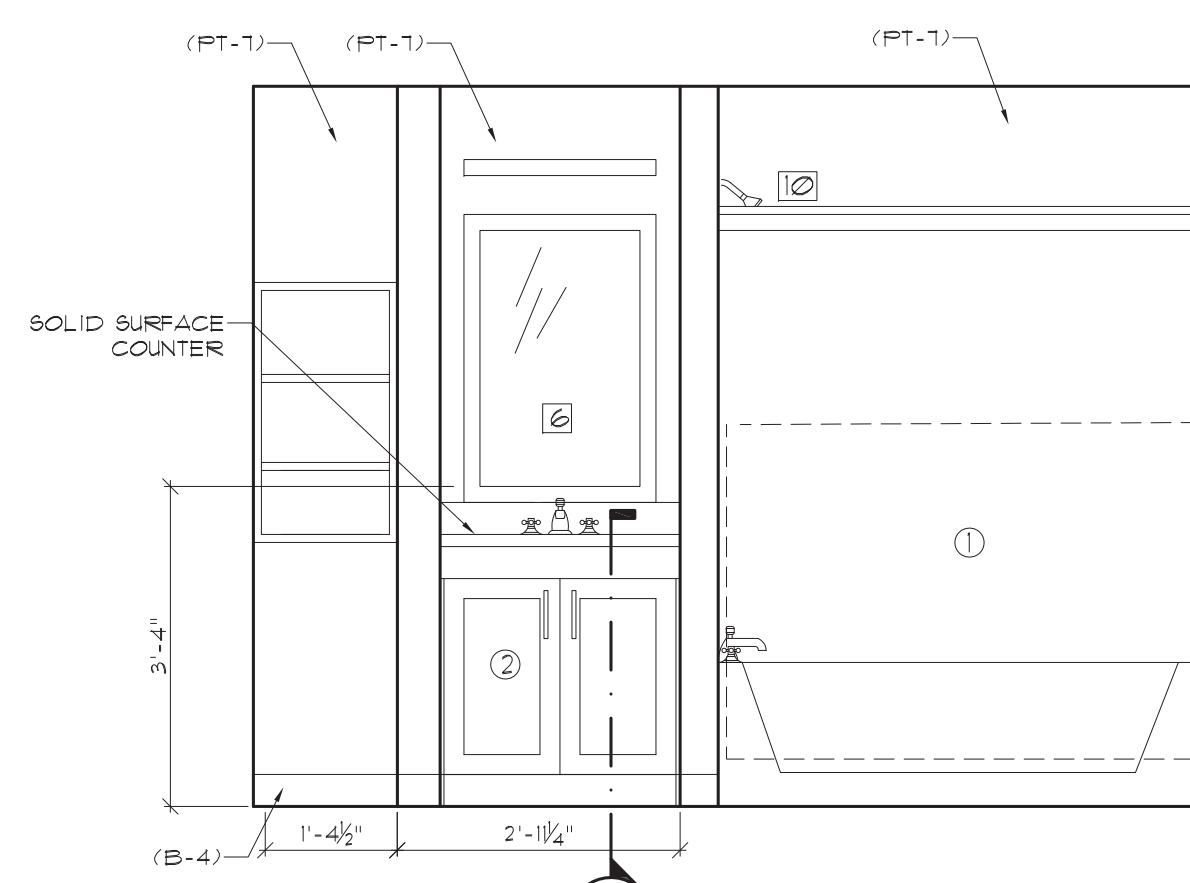
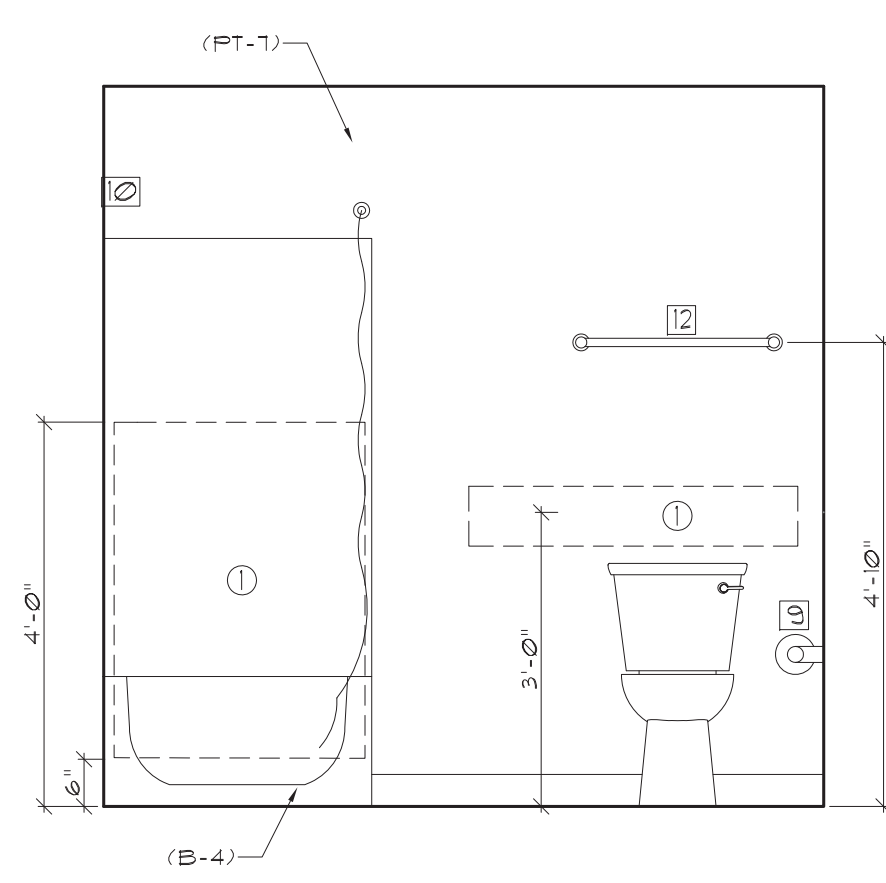
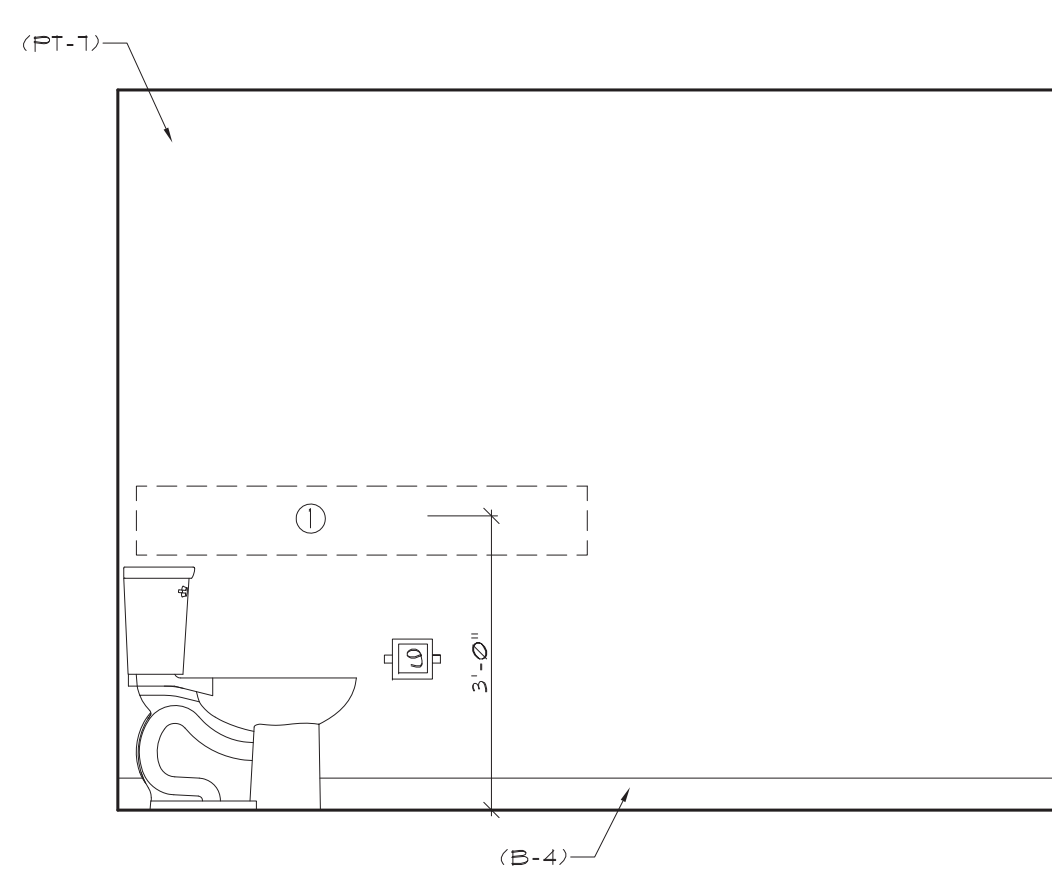
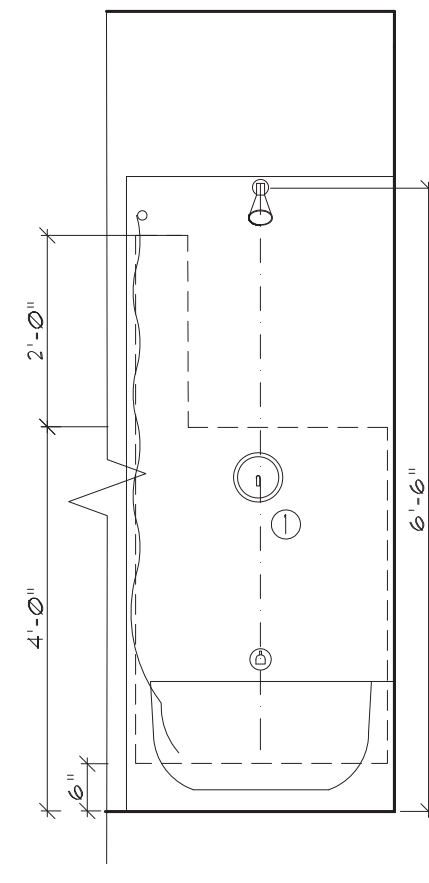
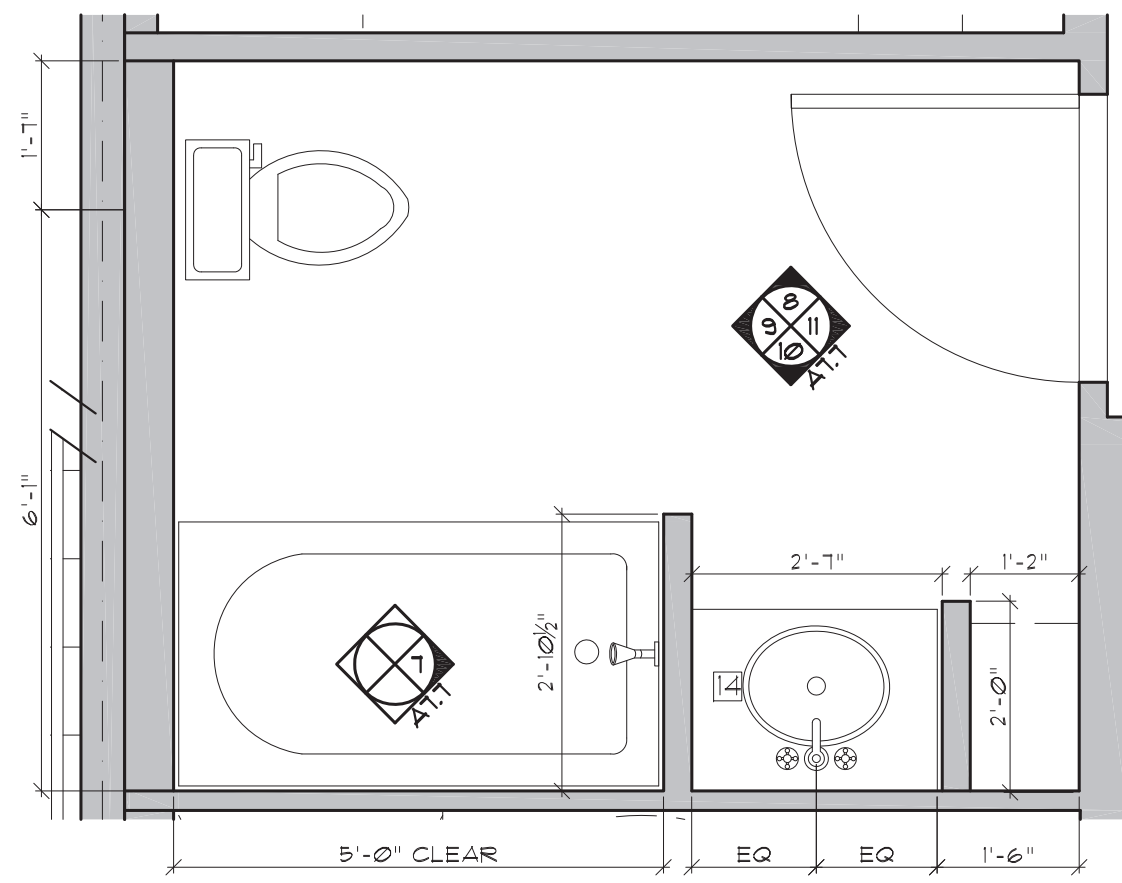
PROJECT # 1420  
DATE: 9/22/2020  
REVISED DATE:  
REVISED: 02/16/2021

**FINISH NOTES:**

1. TRANSITION STRIPS AT ALL CHANGES IN FLOORING FINISHES. CHANGE IN LEVEL IN FLOOR SURFACES SHALL NOT EXCEED  $\frac{3}{8}$ " AND SLOPE OF THRESHOLD SHALL NOT BE GREATER THAN 1:2, IN COMPLIANCE WITH THE AMERICAN DISABILITIES ACT.
2. DO NOT PAINT ALUMINUM DOORS.
3. ALL FLOOR FINISHES TO CONTINUE INTO ADJACENT CLOSETS.
4. AT ALL "GROUP 1" AND "GROUP 2A" UNITS PROVIDE IN-WALL BLOCKING FOR FUTURE GRAB BARS.
5. AT ALL ADA UNITS: BATH #1, PROVIDE AND INSTALL GRAB BARS, AS INDICATED ON DRAWINGS.
6. AT ALL ADA UNITS: BATH #2, PROVIDE IN-WALL WOOD BLOCKING AS INDICATED FOR FUTURE INSTALLATION OF GRAB BARS.
7. REFER TO ACCESSORY AND APPLIANCE SCHEDULES ON A82.
8. PROVIDE IN-WALL BLOCKING FOR ALL BATHROOM ACCESSORIES.

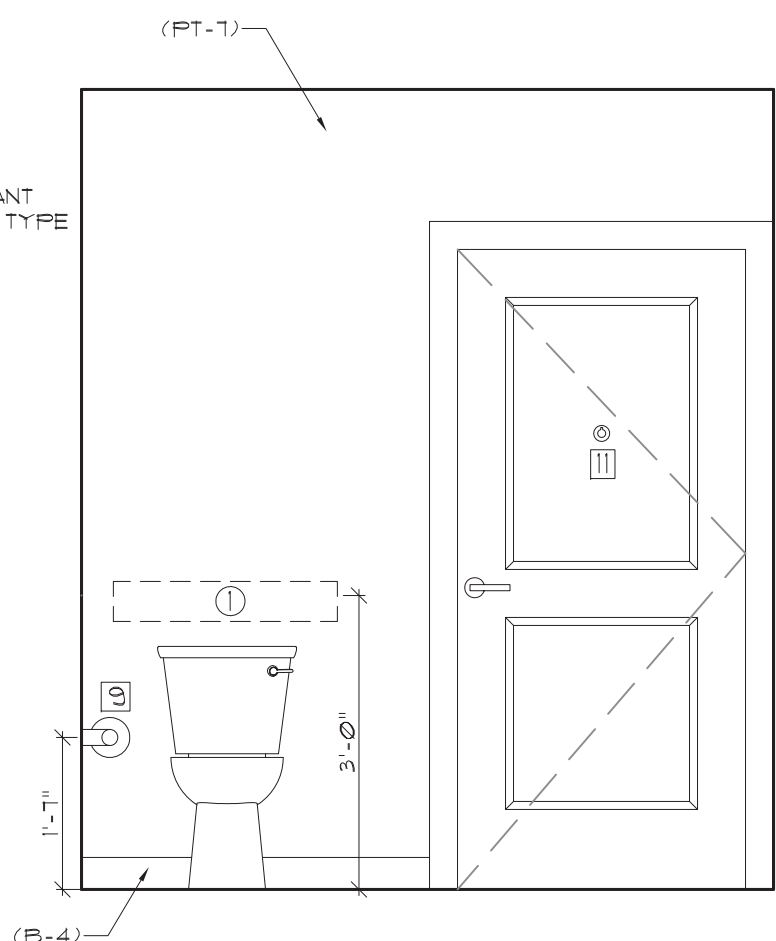
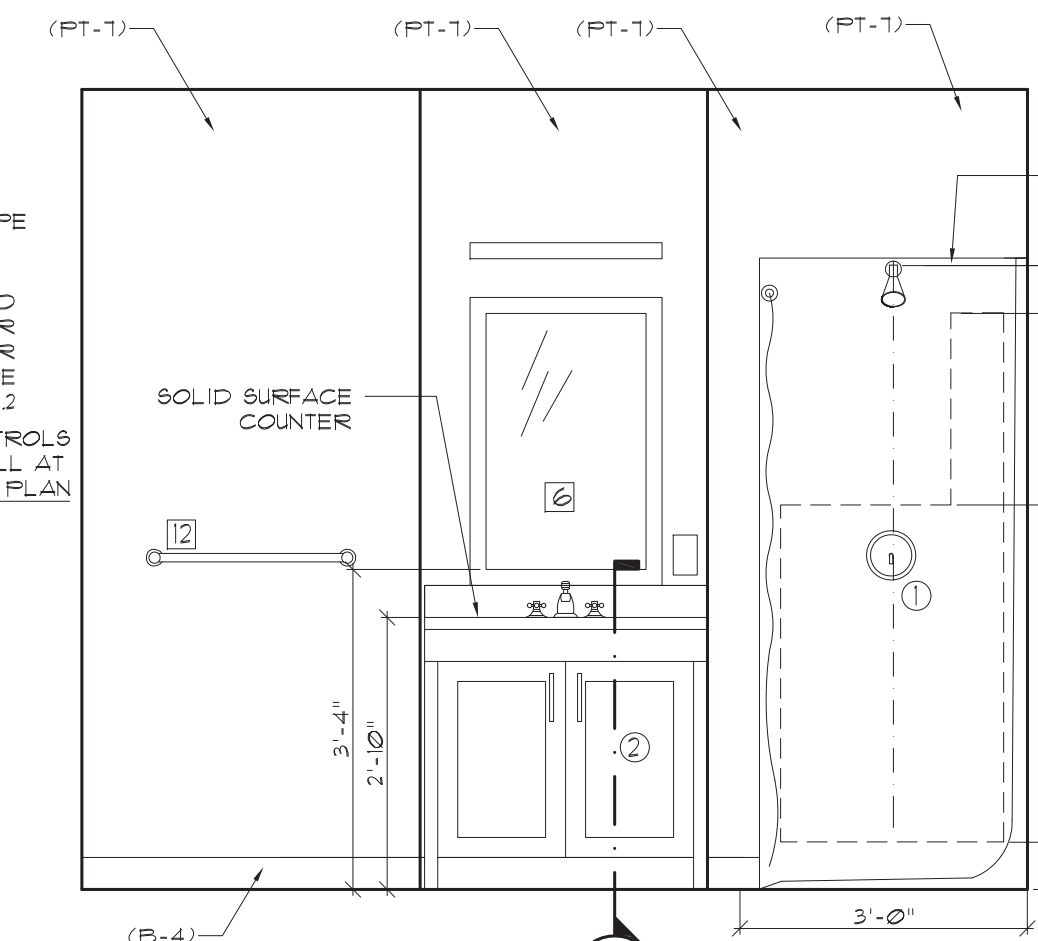
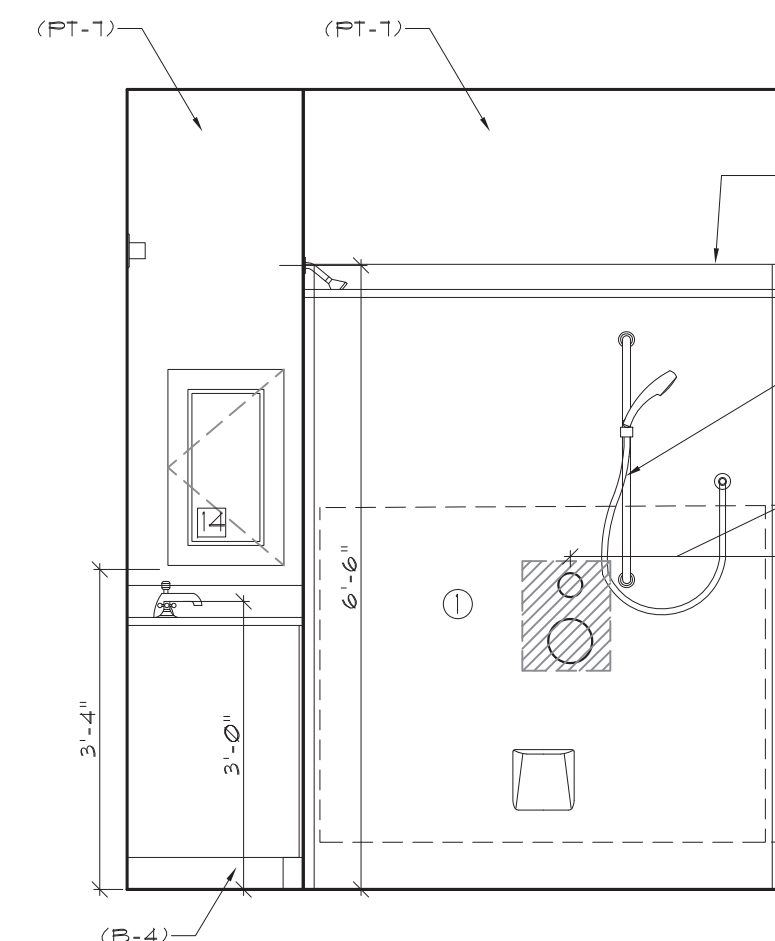
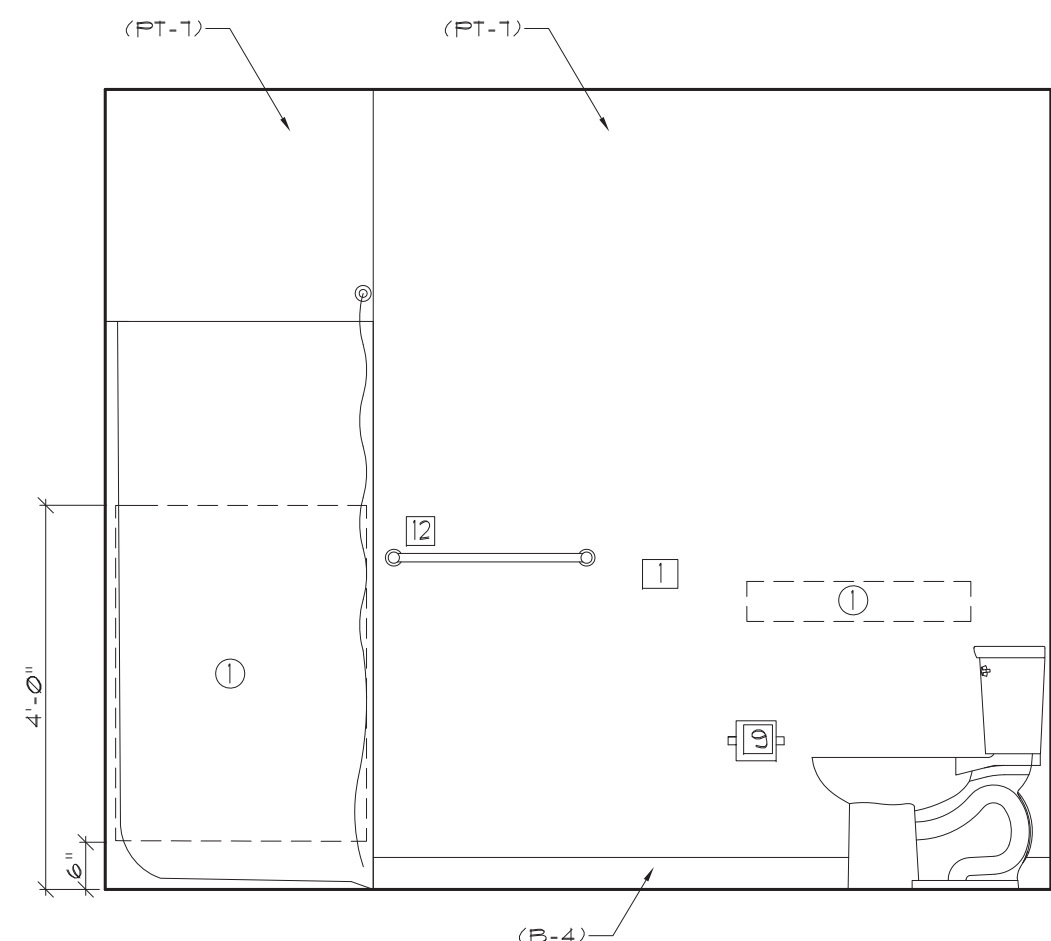
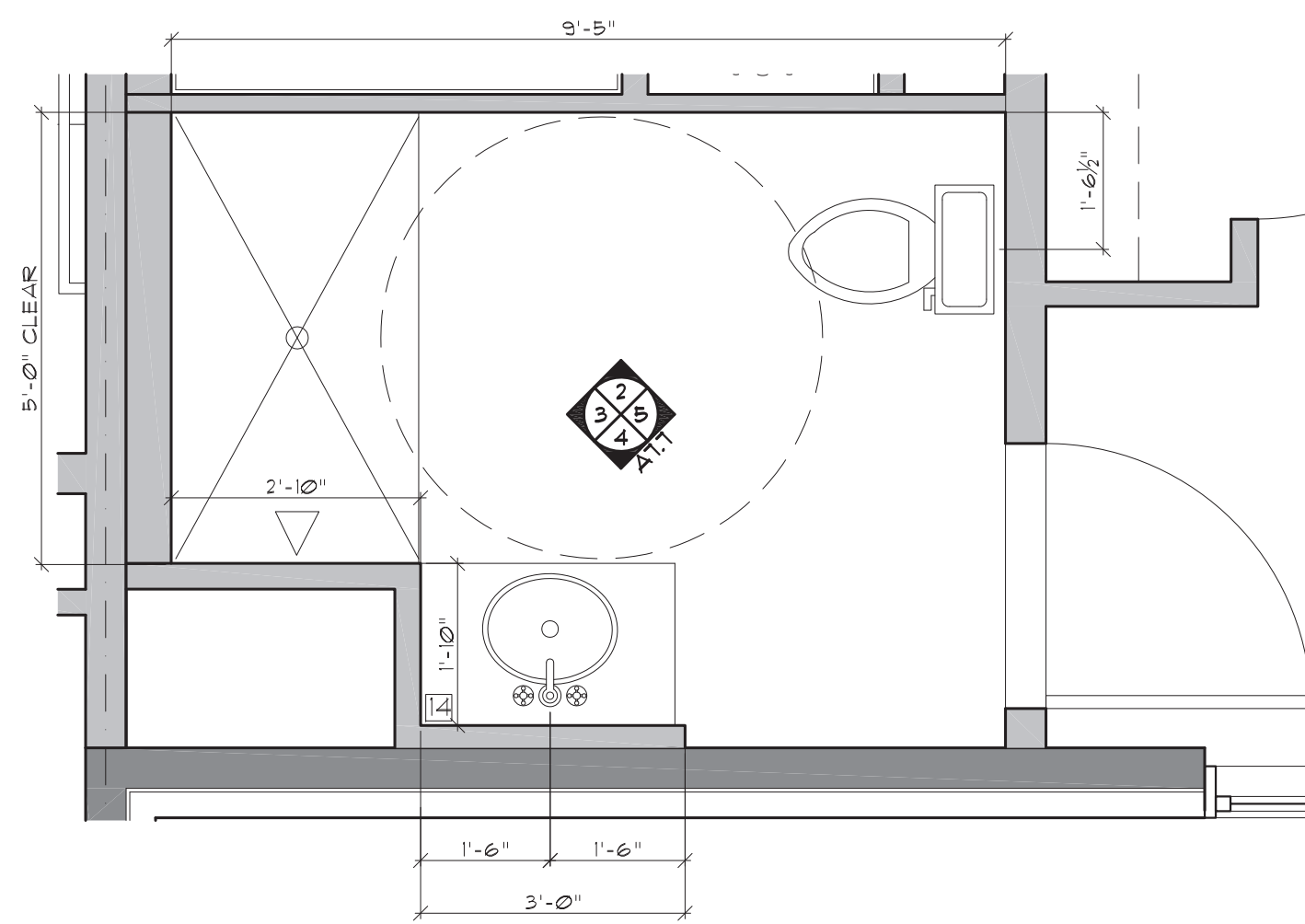
**KEY NOTES:**

1. PROVIDE IN WALL BLOCKING FOR FUTURE GRAB BARS.
2. PROVIDE REMOVABLE CABINETS, RUN FLOOR AND WALL FINISHES UNDER COUNTERTOPS/ CABINETS



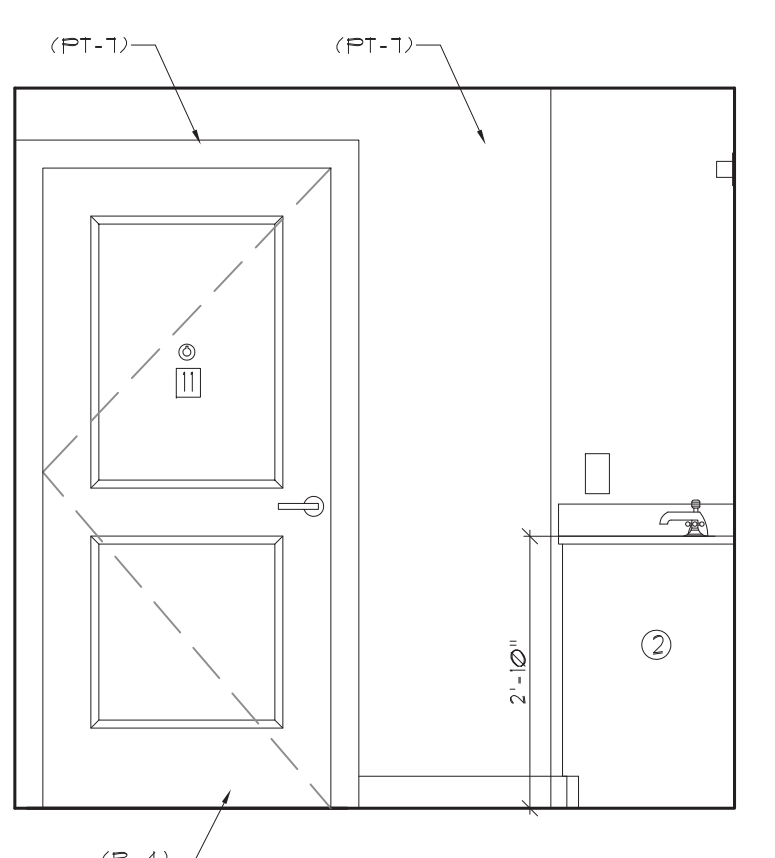
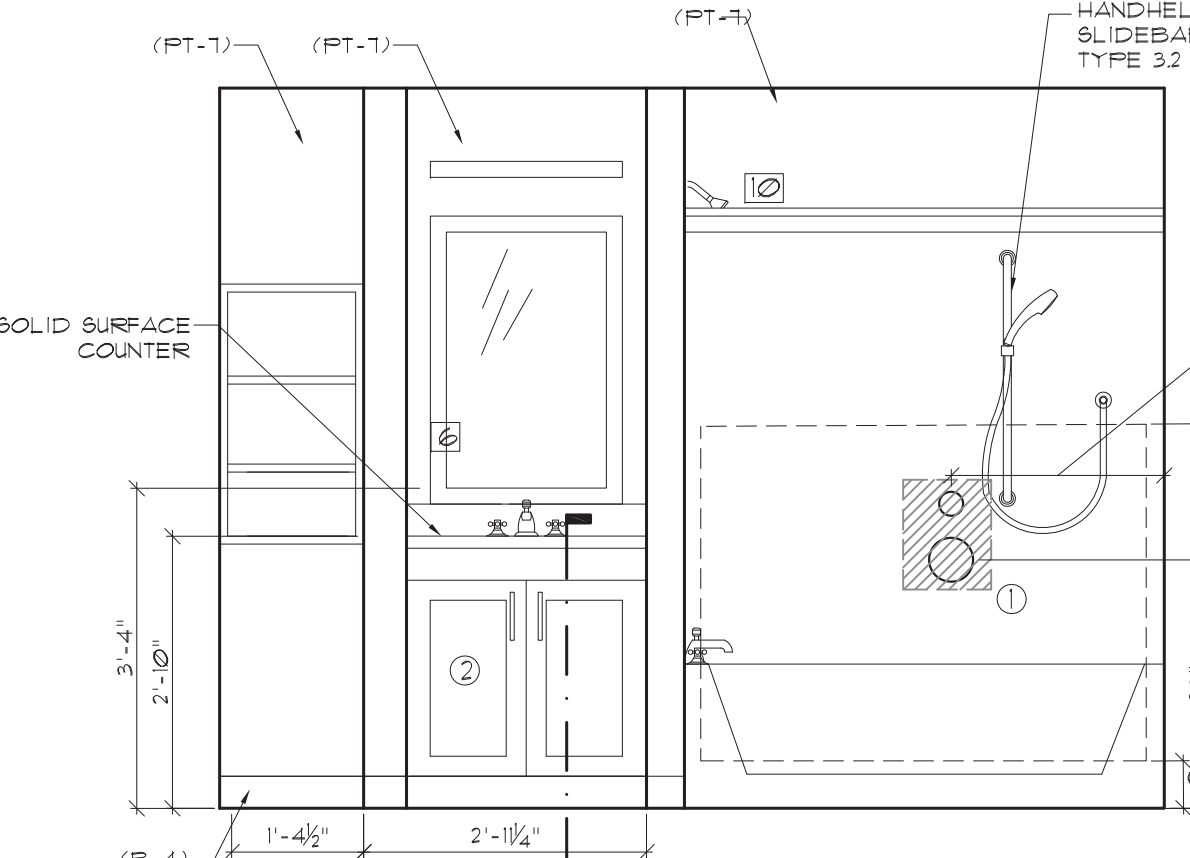
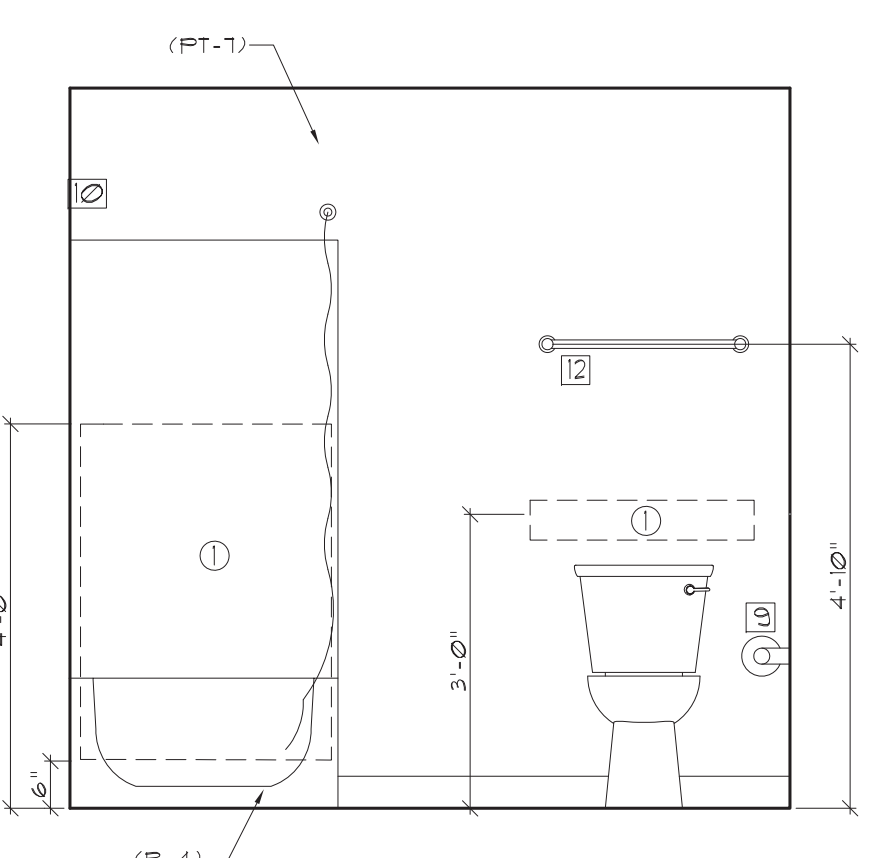
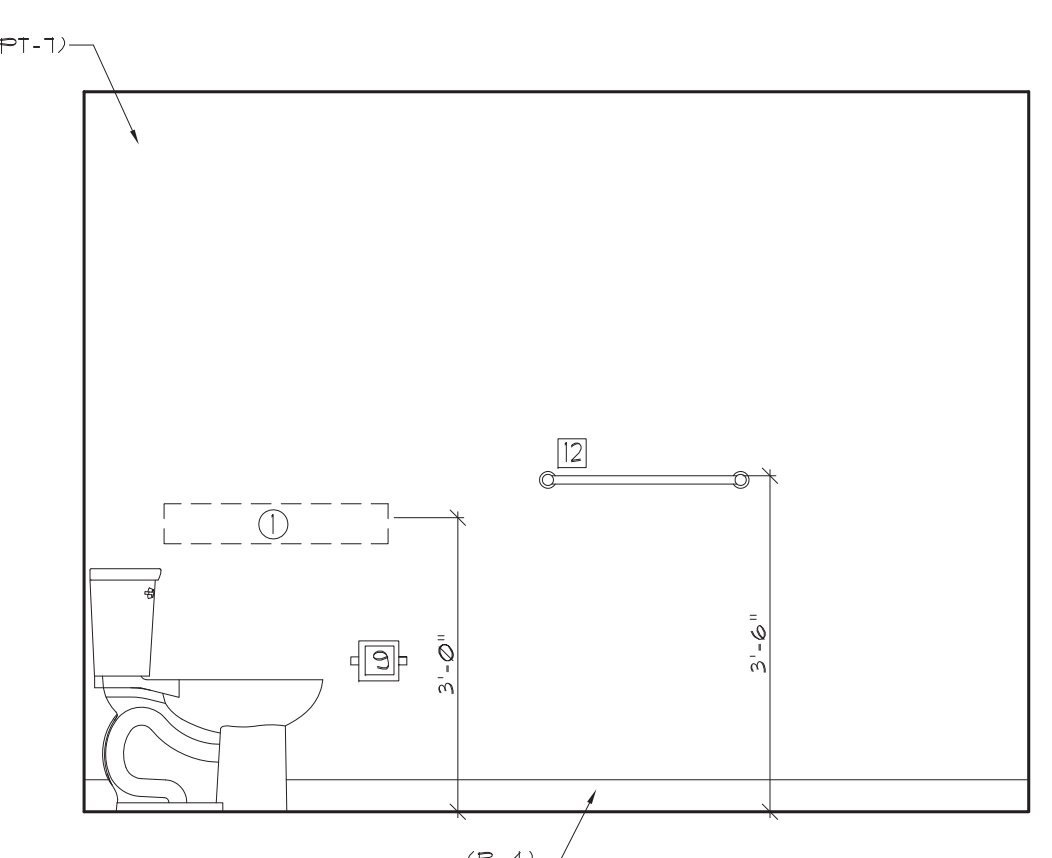
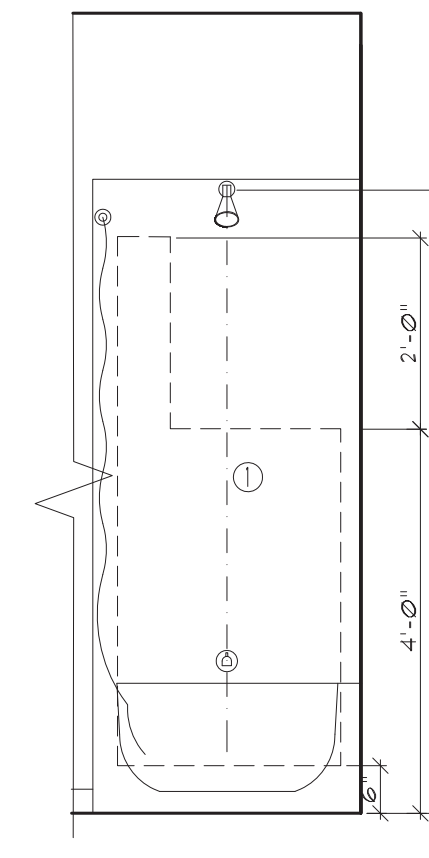
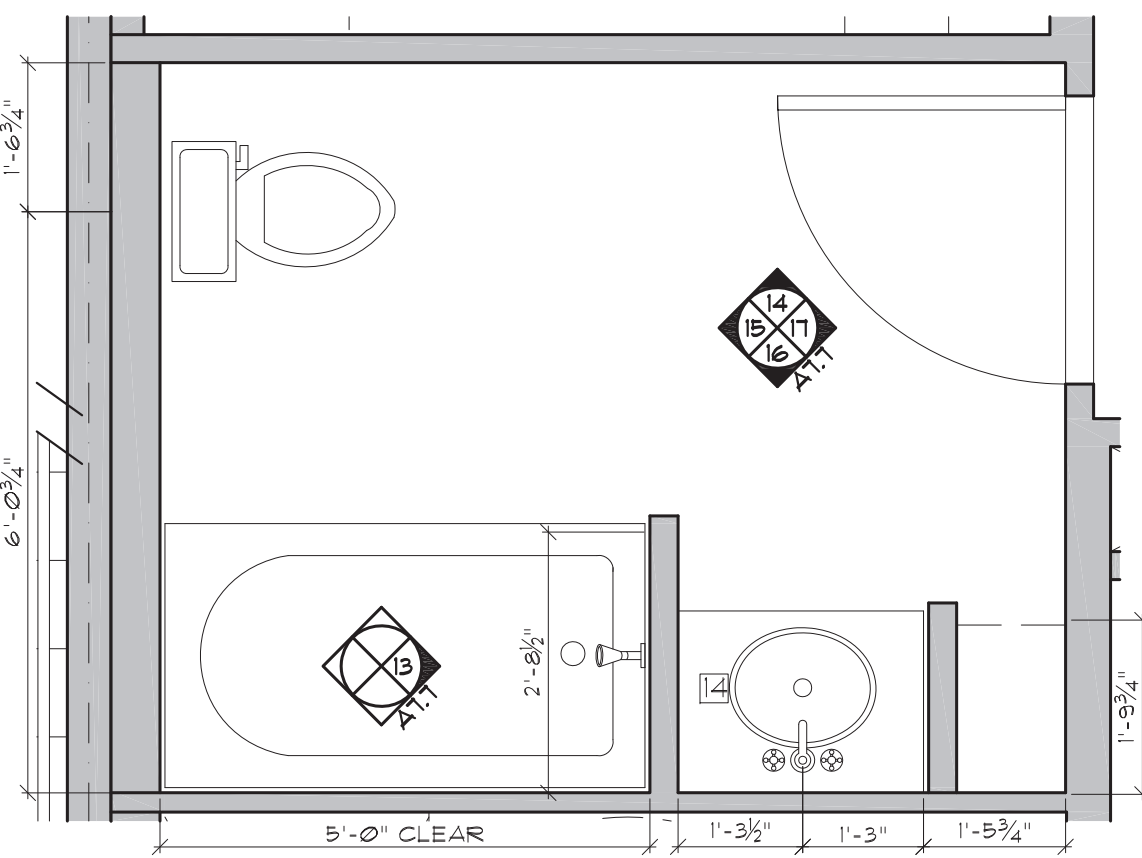
**ENLARGED BATH 2 PLAN** (6) **BATH 2** (7)

TYPE 3.1 UNIT PLAN - ADA UNIT (ADAPTABLE SECOND BATHROOM) ELEVATIONS



**ENLARGED BATH 1 PLAN** (1) **BATH 1** (2)

TYPE 3.2 UNIT PLAN - GROUP 2A ELEVATIONS



**ENLARGED BATH 2 PLAN** (12) **BATH 2** (13)

TYPE 3.2 UNIT PLAN - GROUP 2A ELEVATIONS



SHEET CONTENTS:  
Interior Elevations

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1 REVISED: 02/16/2021

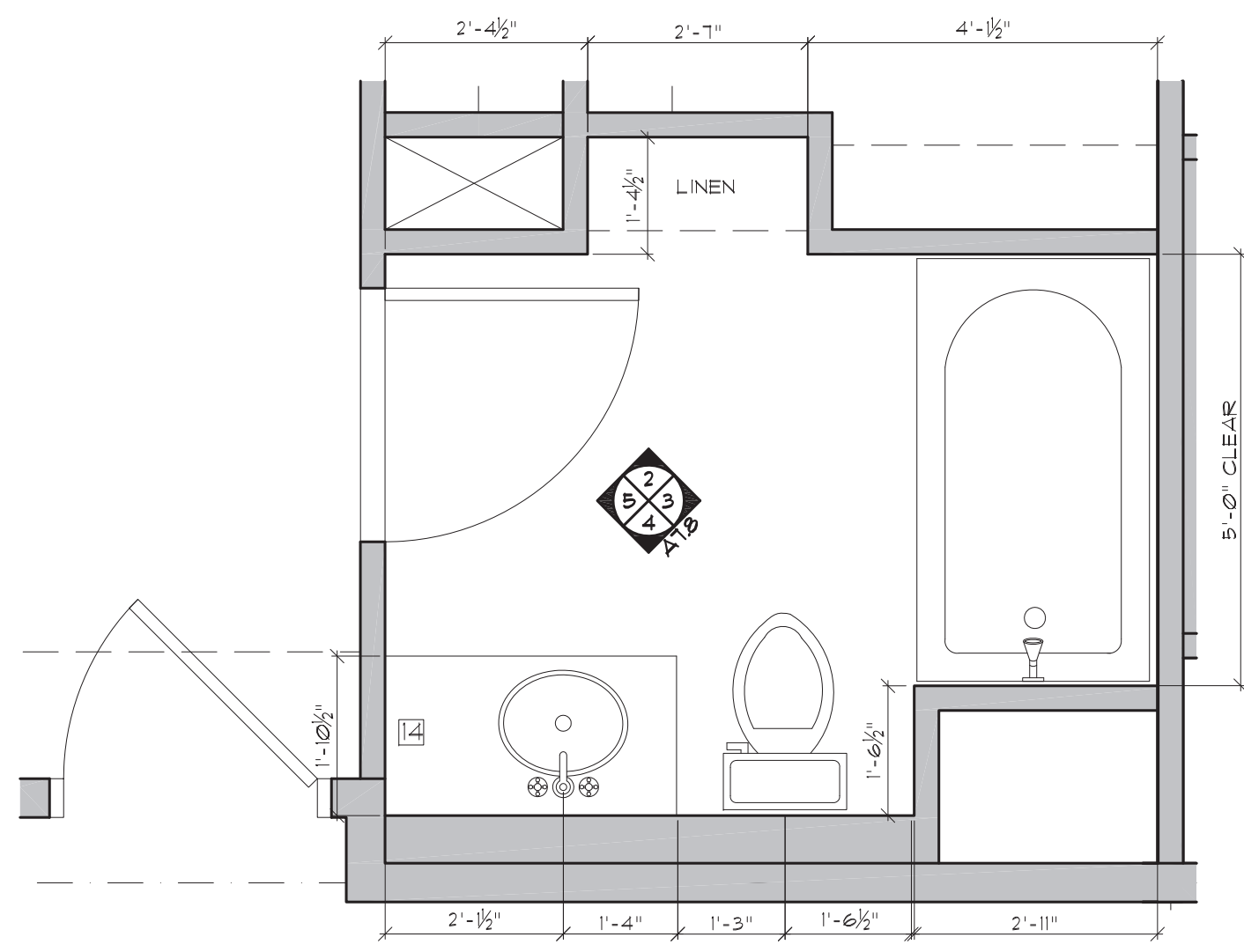
CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

**FINISH NOTES:**

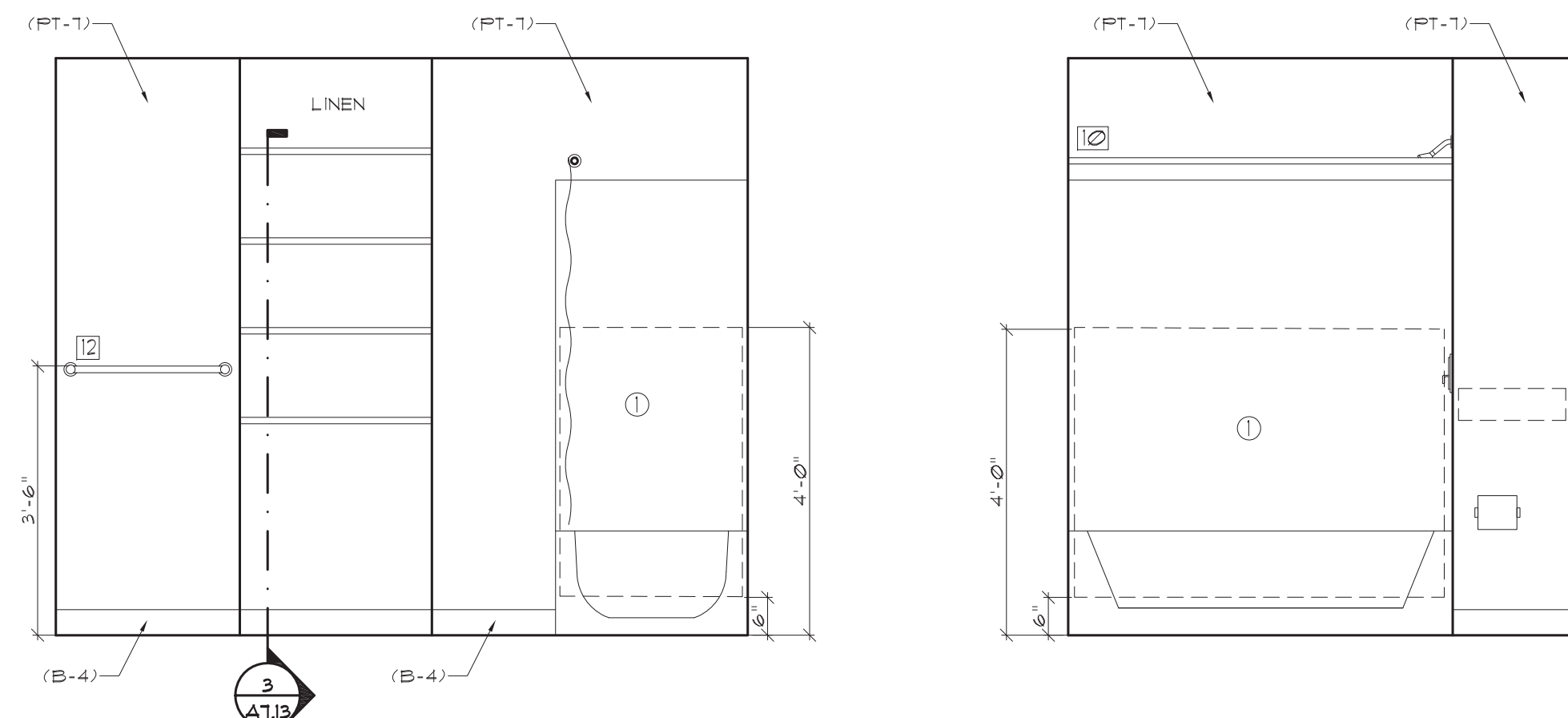
1. TRANSITION STRIPS AT ALL CHANGES IN FLOORING FINISHES. CHANGE IN LEVEL IN FLOOR SURFACES SHALL NOT EXCEED 1/4" AND SLOPE OF THRESHOLD SHALL NOT BE GREATER THAN 1:2, IN COMPLIANCE WITH THE AMERICAN DISABILITIES ACT.
2. DO NOT PAINT ALUMINUM DOORS.
3. ALL FLOOR FINISHES TO CONTINUE INTO ADJACENT CLOSETS.
4. AT ALL "GROUP 1" AND "GROUP 2A" UNITS PROVIDE IN-WALL BLOCKING FOR FUTURE GRAB BARS.
5. AT ALL ADA UNITS: BATH #1, PROVIDE AND INSTALL GRAB BARS AS INDICATED ON DRAWINGS.
6. AT ALL ADA UNITS: BATH #2, PROVIDE IN-WALL WOOD BLOCKING AS INDICATED FOR FUTURE INSTALLATION OF GRAB BARS.
7. REFER TO ACCESSORY AND APPLIANCE SCHEDULES ON A8.2.
8. PROVIDE IN-WALL BLOCKING FOR ALL BATHROOM ACCESSORIES.

**KEY NOTES:**

1. PROVIDE IN WALL BLOCKING FOR FUTURE GRAB BARS.
2. PROVIDE REMOVABLE CABINETS. RUN FLOOR AND WALL FINISHES UNDER COUNTERTOPS/ CABINETS.

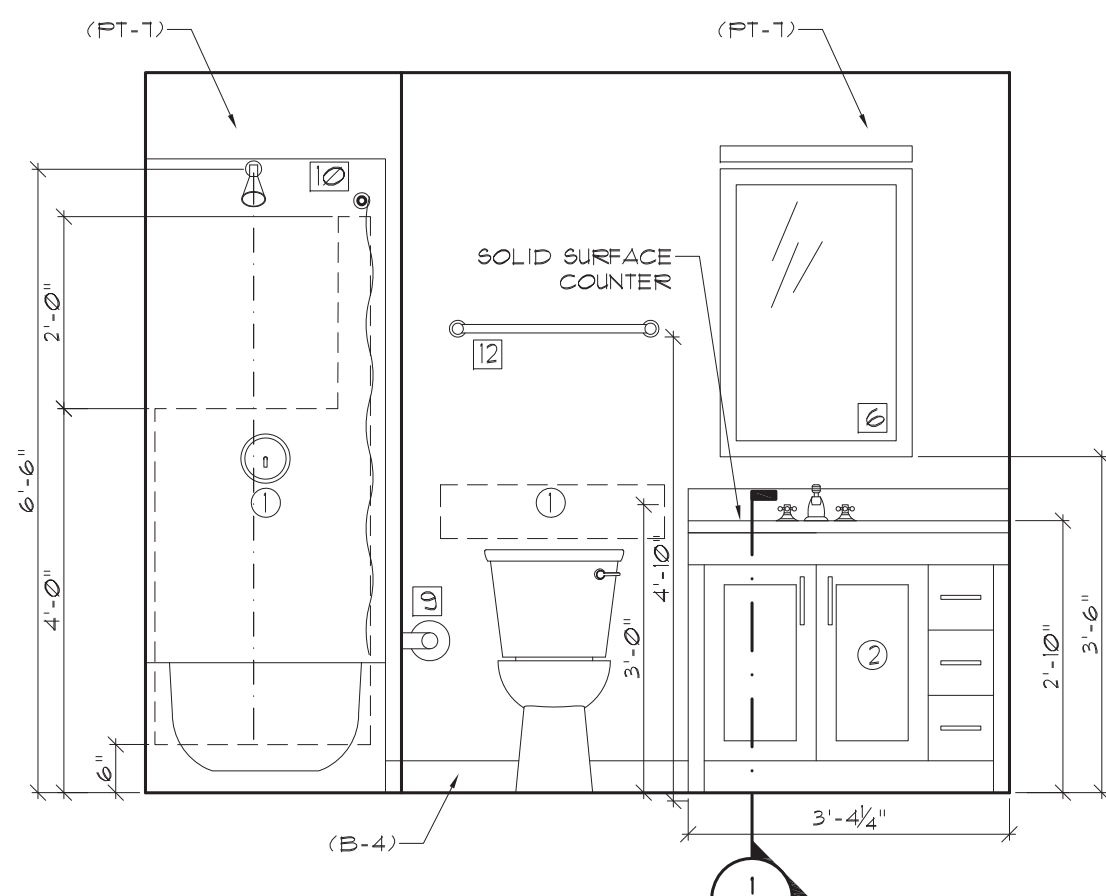


**ENLARGED BATH PLAN 1**  
TYPE 4 UNIT PLAN - GROUP 1

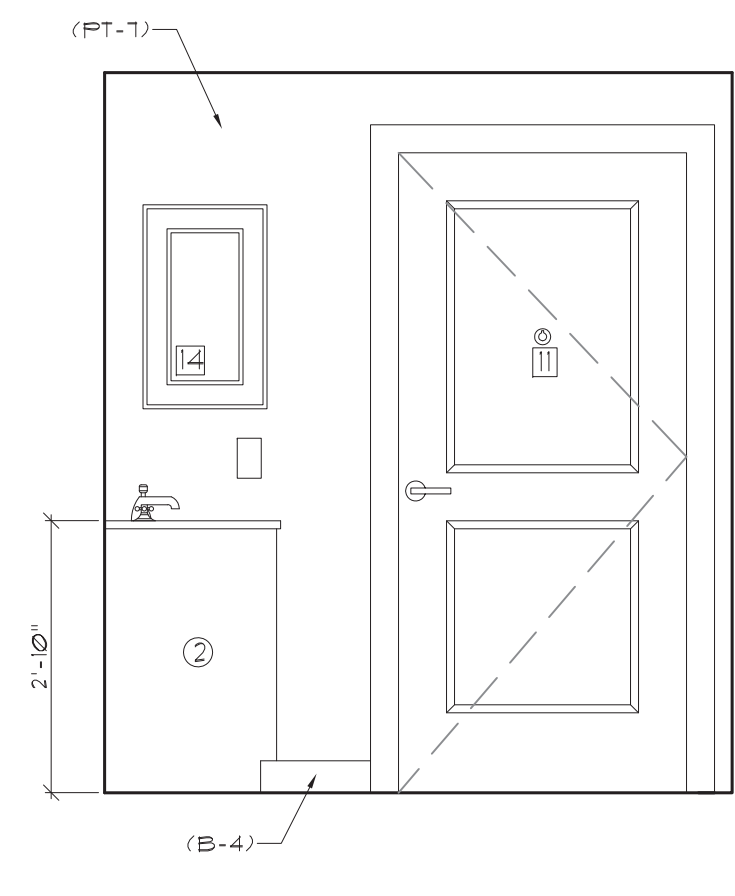


**BATHROOM ELEVATIONS 2**

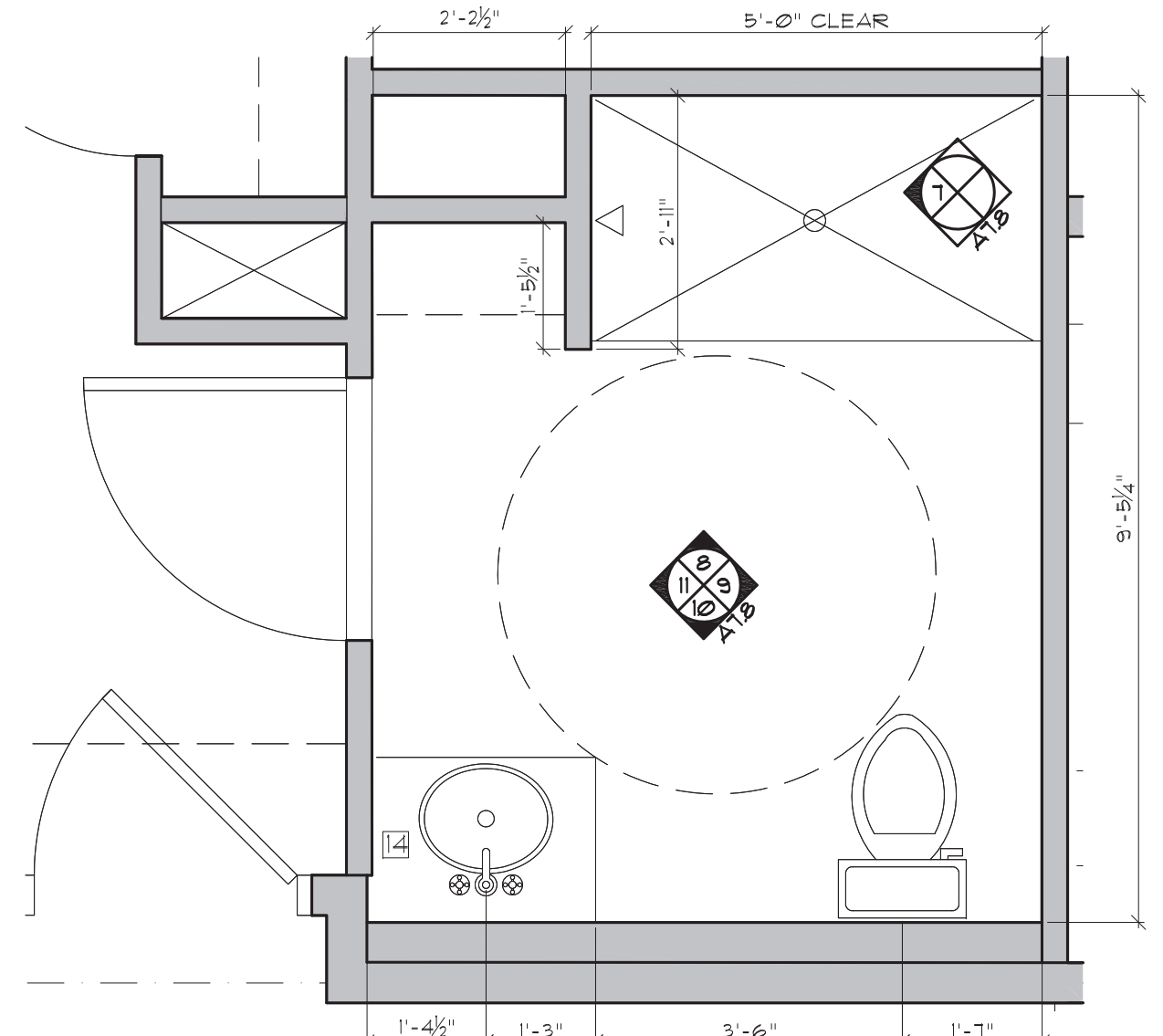
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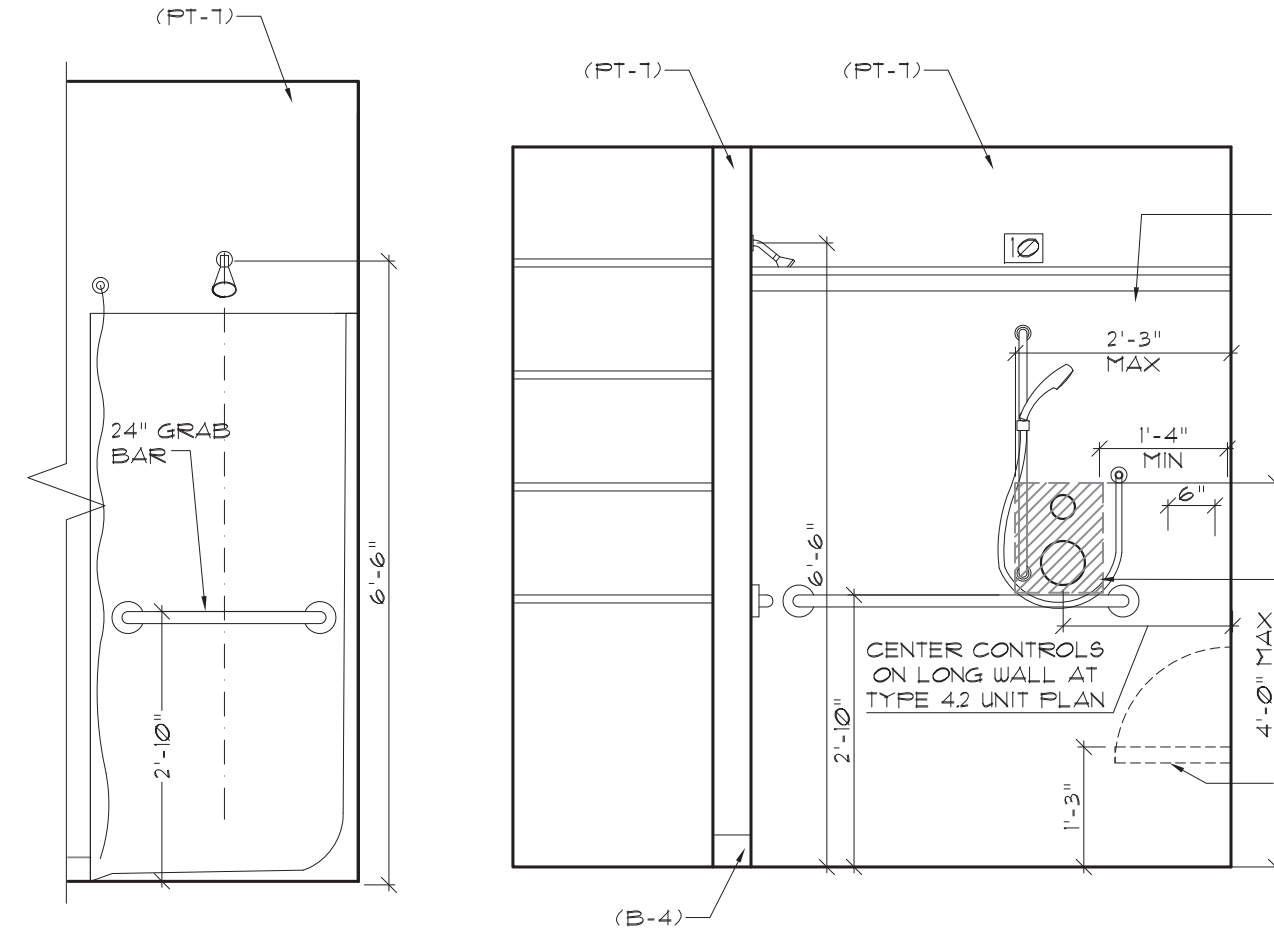
**4**



**11** 1/2" = 1'-0"

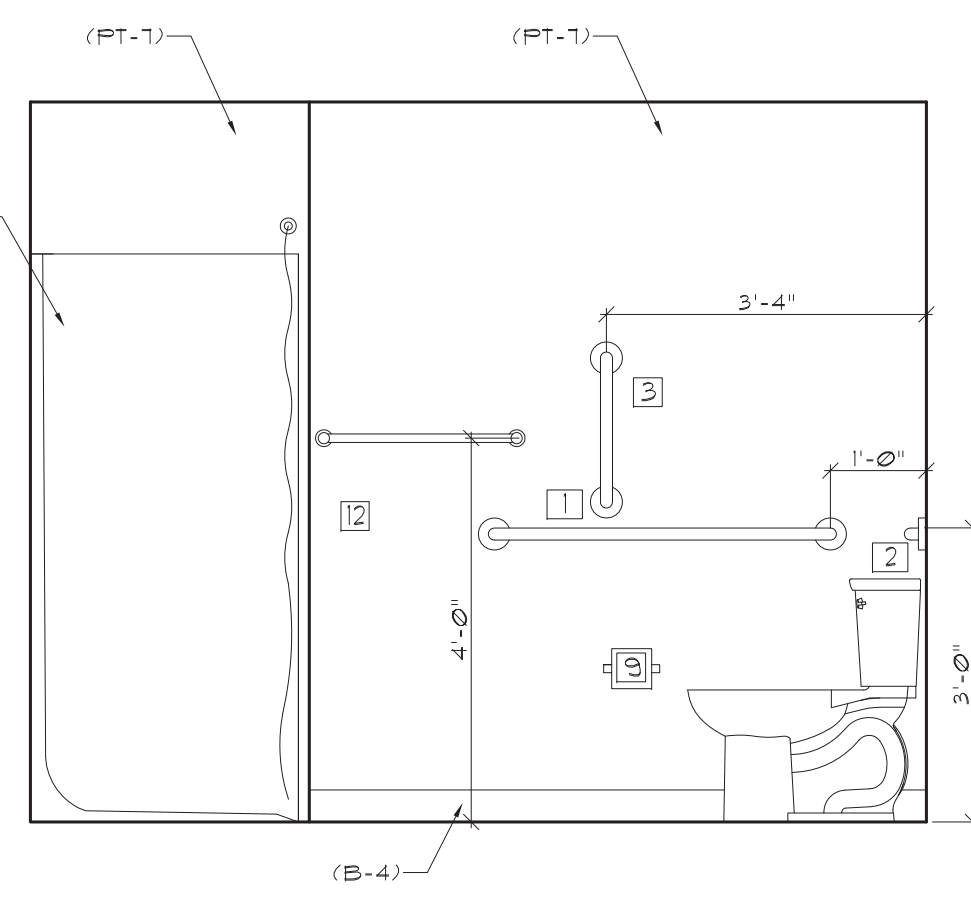


**ENLARGED BATH PLAN 6**  
TYPE 4.1 - FULLY ACCESSIBLE (ADA)

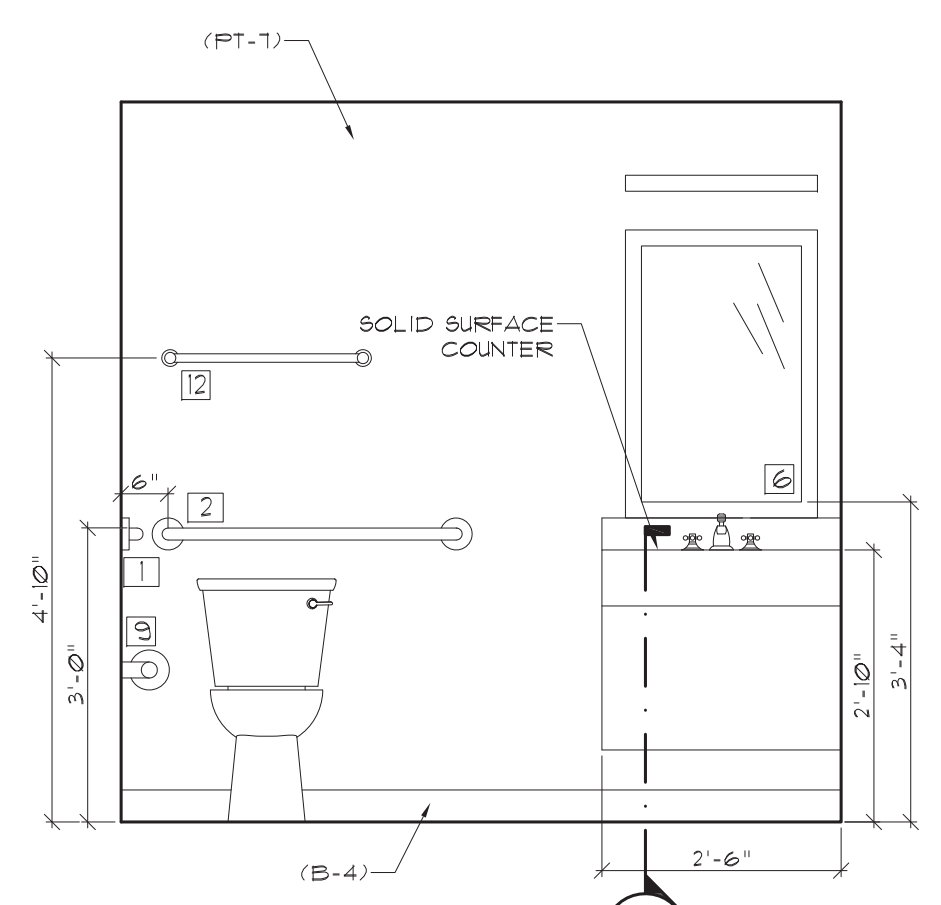


**BATHROOM 7**  
ELEVATIONS

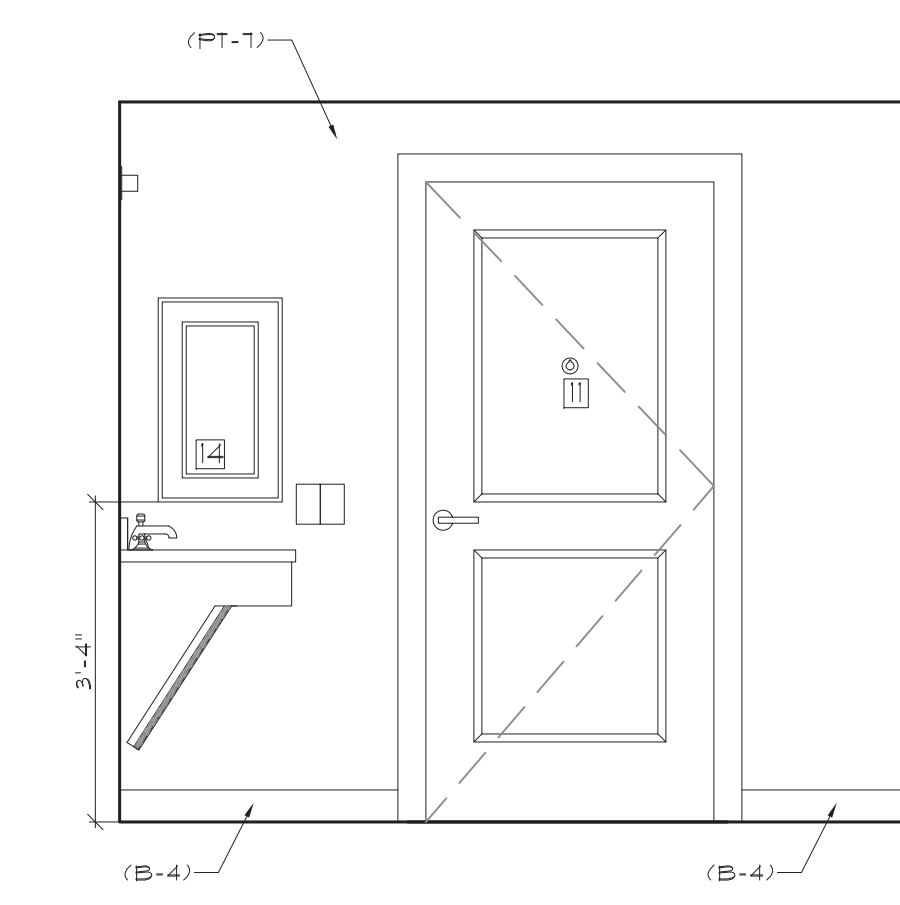
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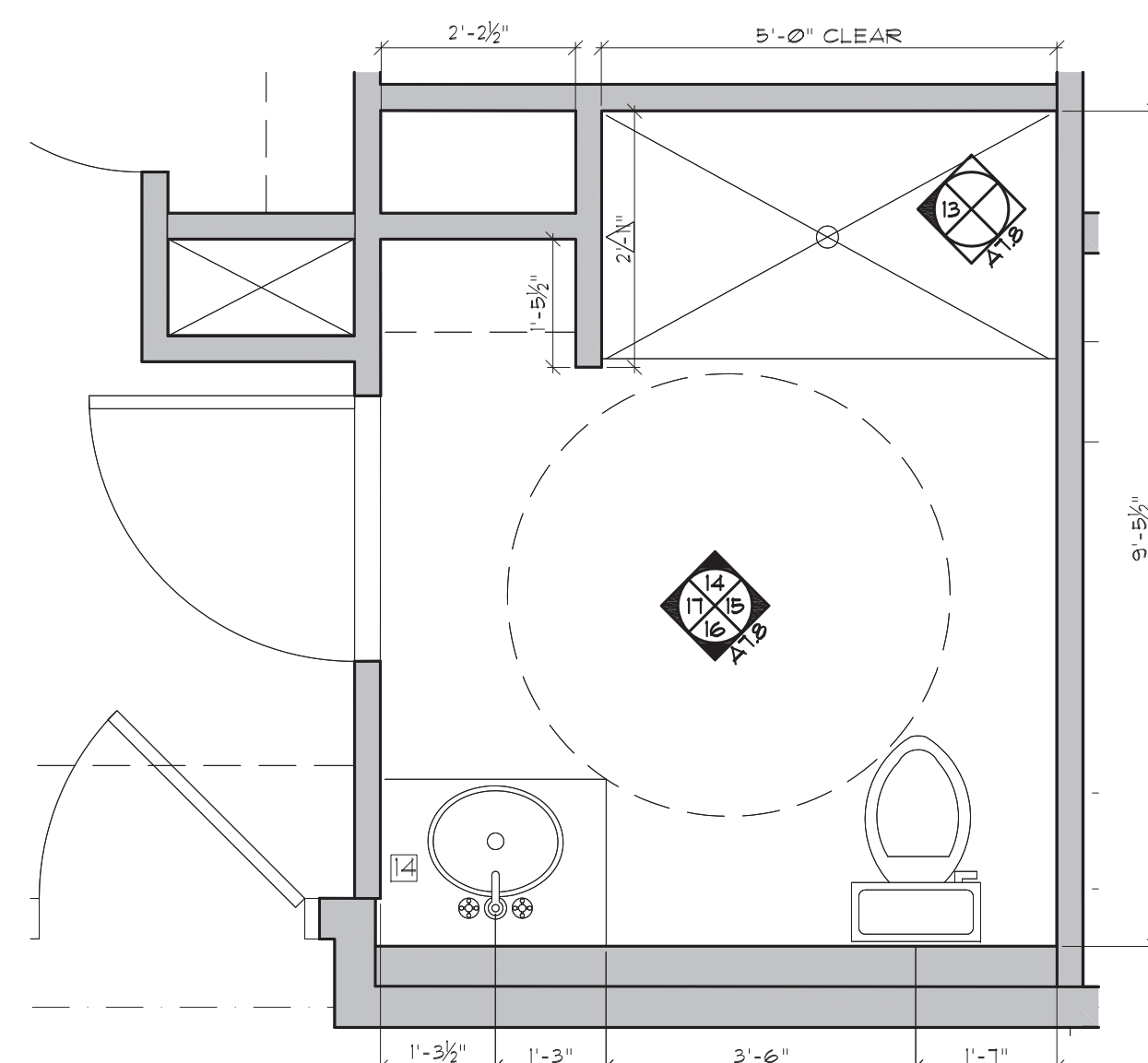
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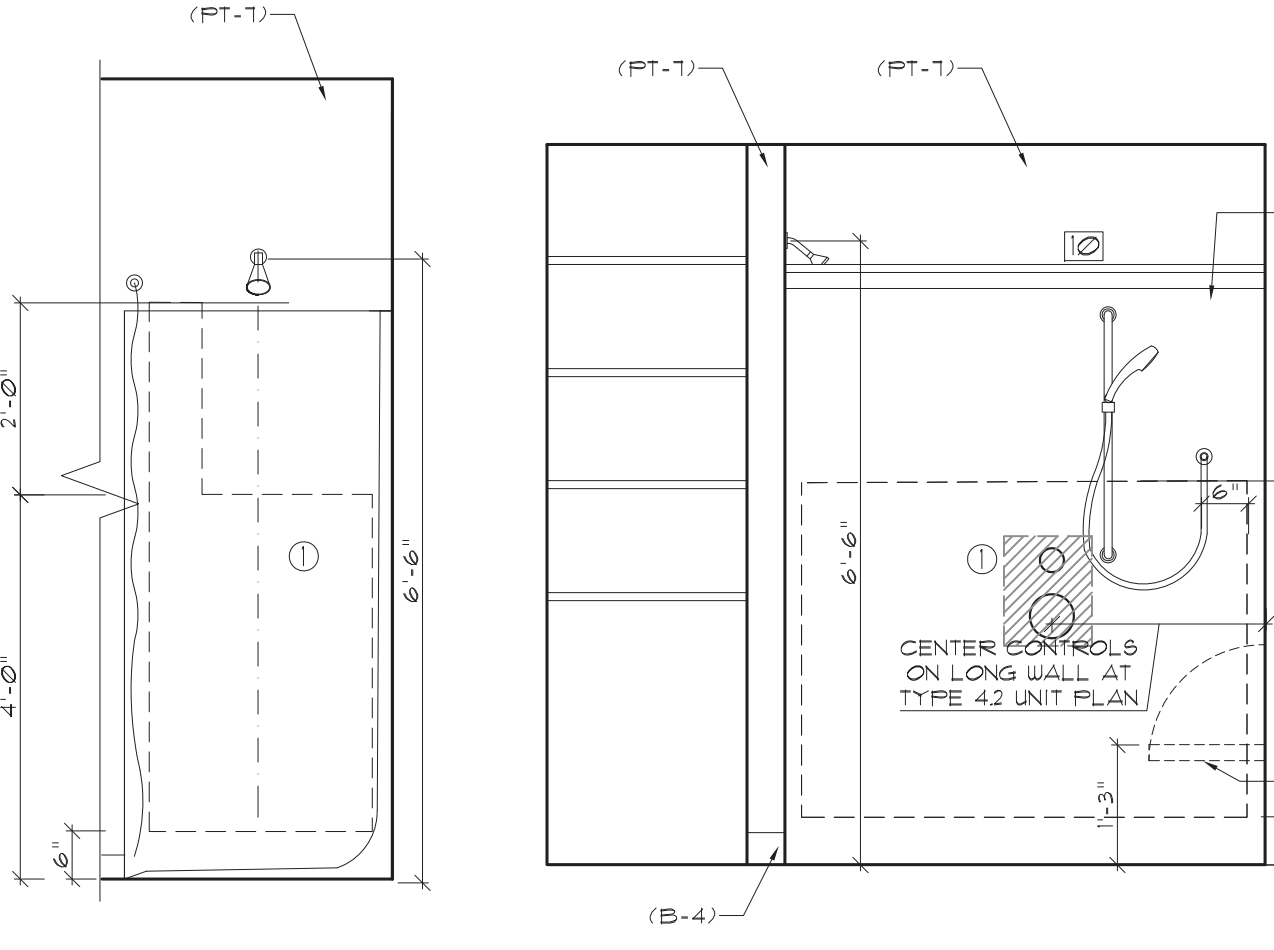
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**11** 1/2" = 1'-0"

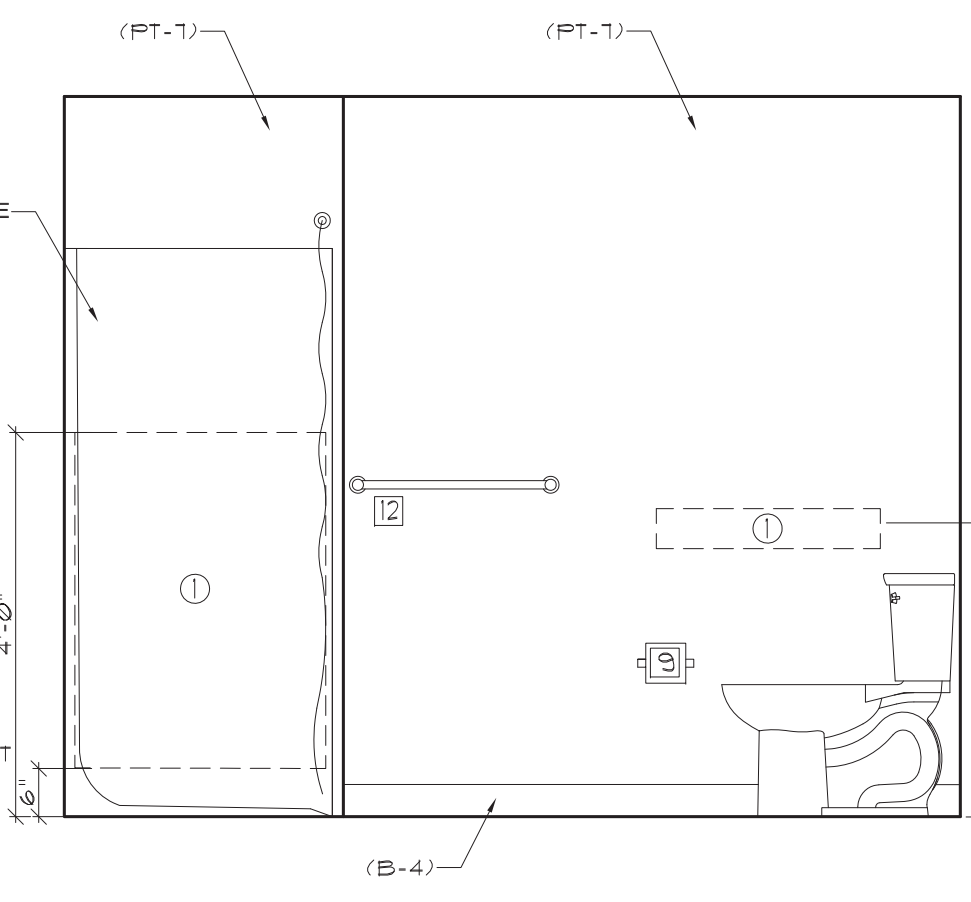


**ENLARGED BATH PLAN 12**  
TYPE 4.2 UNIT PLAN - GROUP 2A

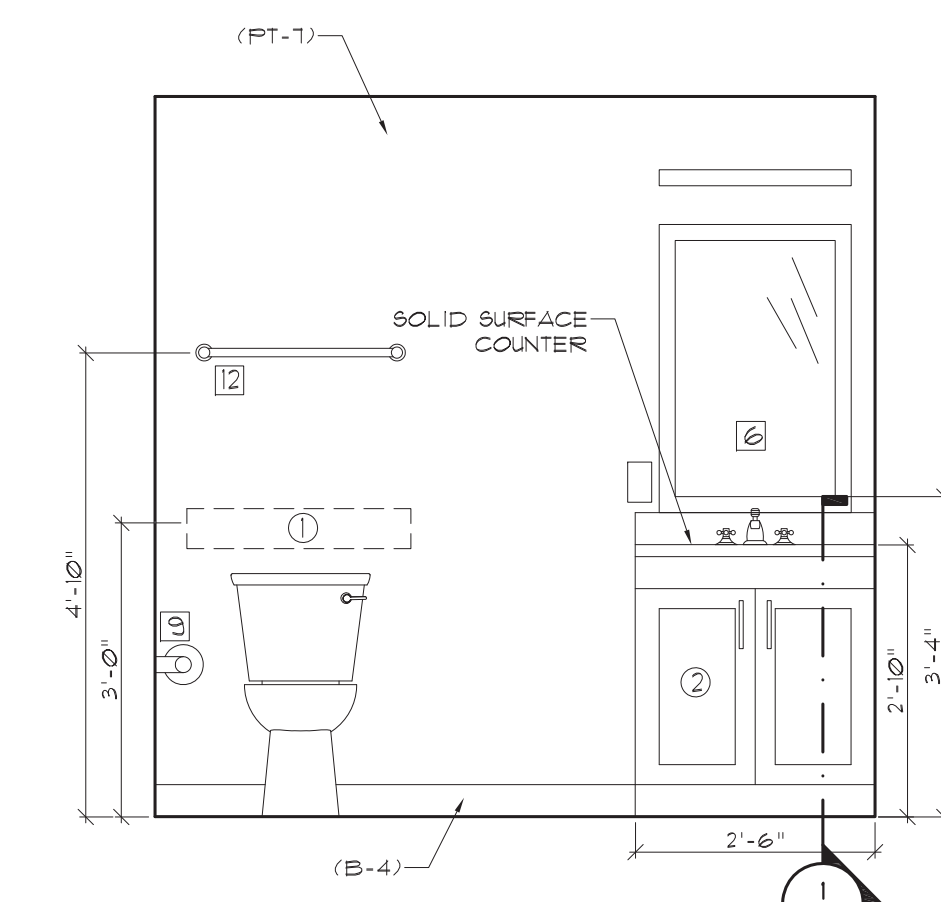


**BATHROOM 13**  
ELEVATIONS

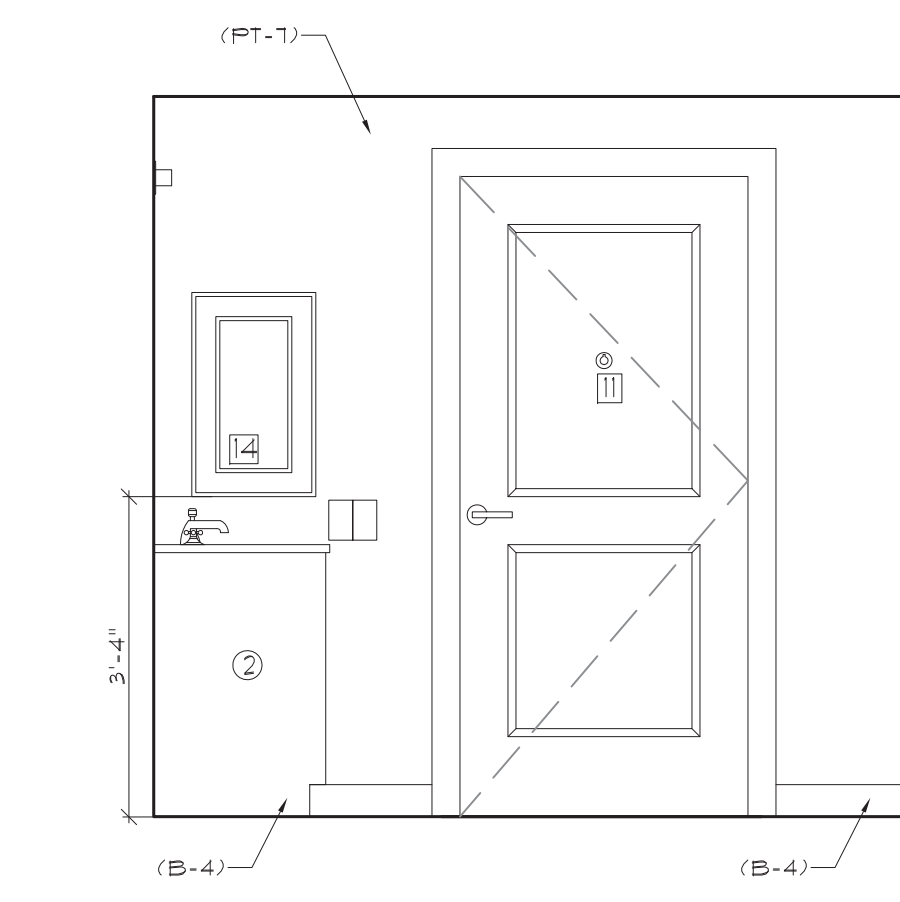
**14**



**15**



**16**



**17** 1/2" = 1'-0"

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**Ed Wojcik**  
architect, ltd  
One Richmond Square  
Providence, RI 02906  
401-861-7139

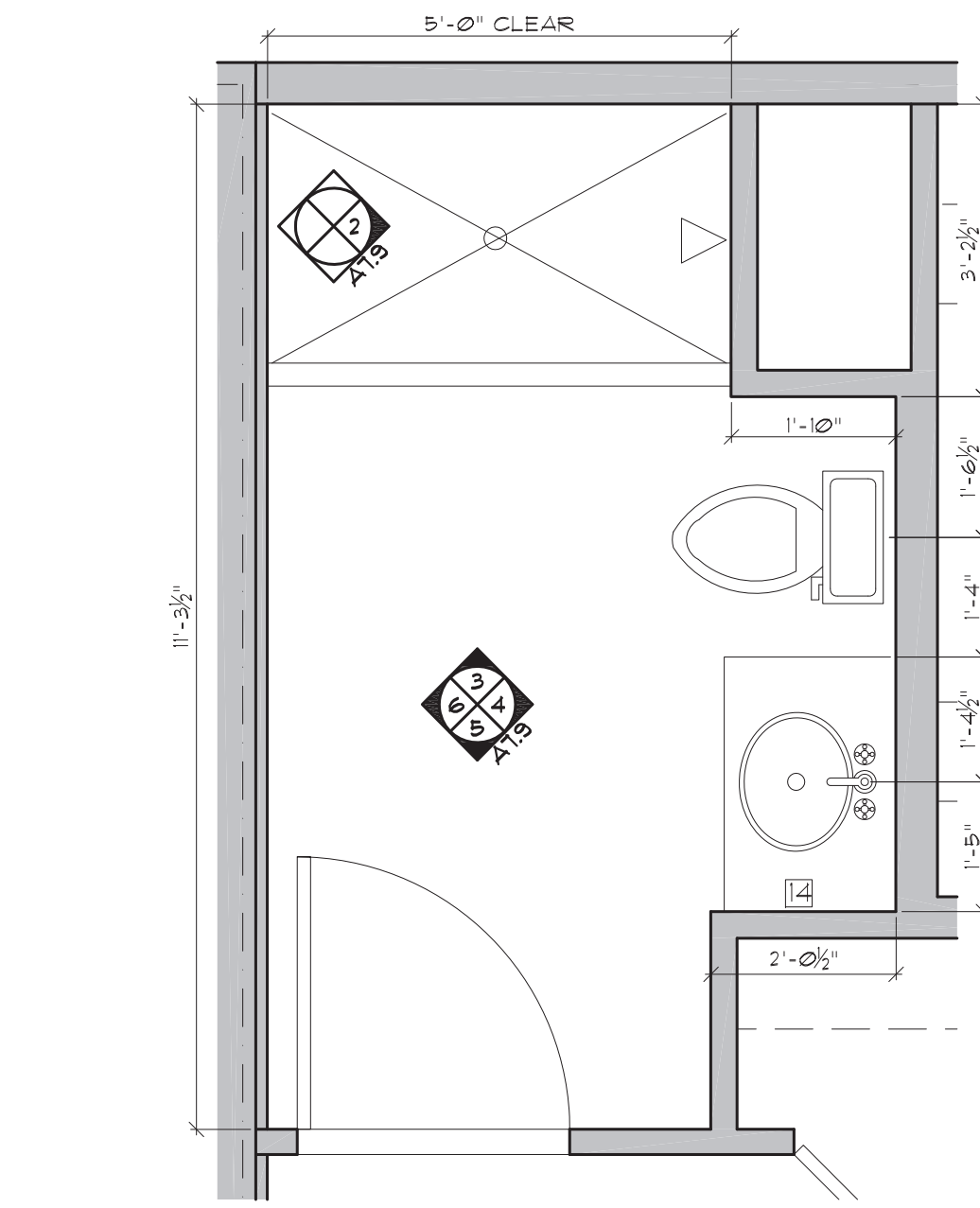
Proposed Design for:  
**Woodland Cove**  
**Phase 1**  
Buildings E, F, & COMMUNITY BUILDING  
3102 Cranberry Highway  
Wareham, MA 02532



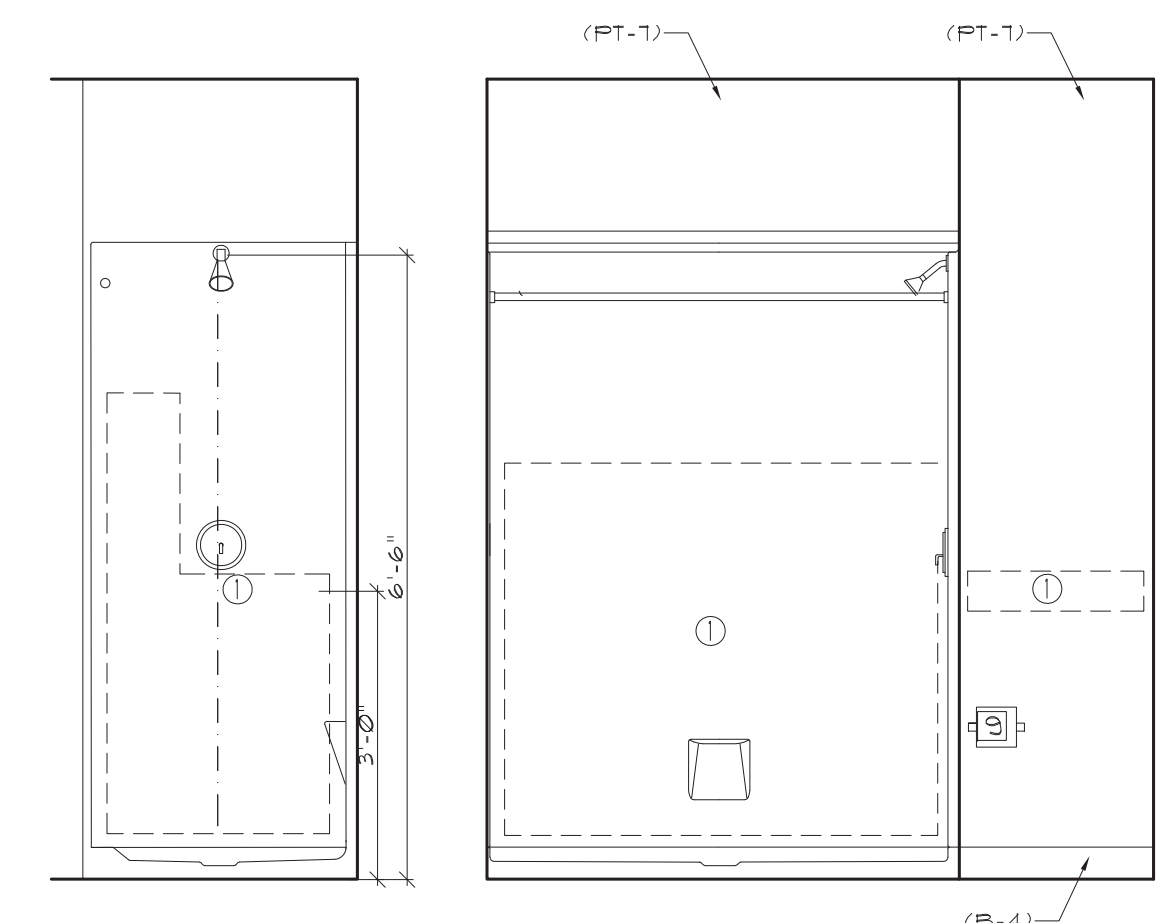
SHEET CONTENTS:  
Interior Elevations

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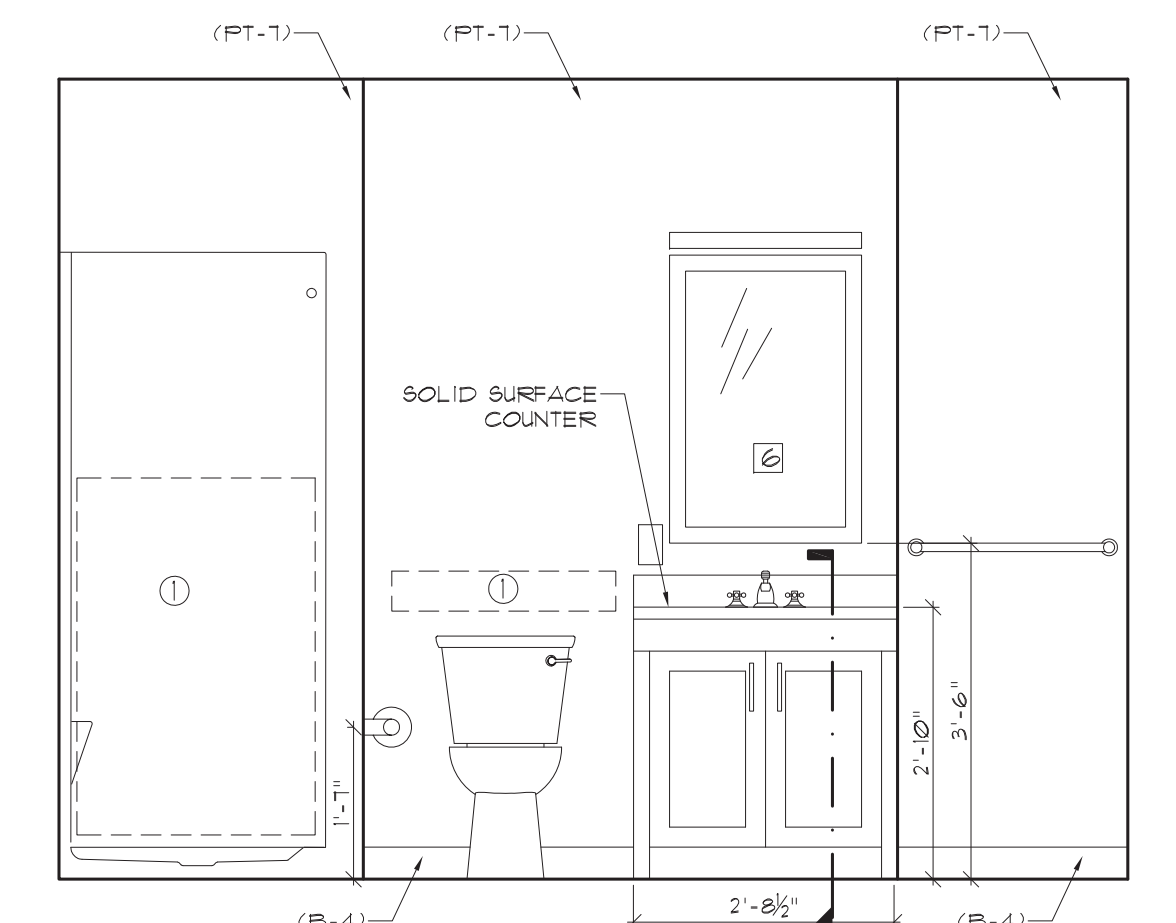
**A7.8**



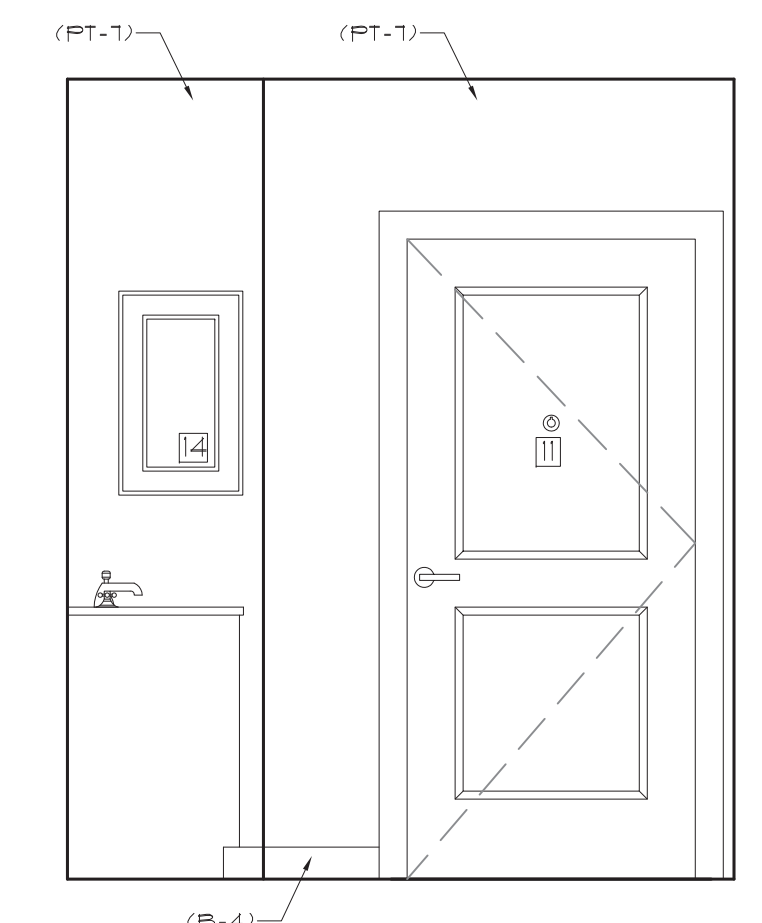
ENLARGED BATH 1 PLAN (1) TYPE 5 UNIT PLAN - GROUP 1



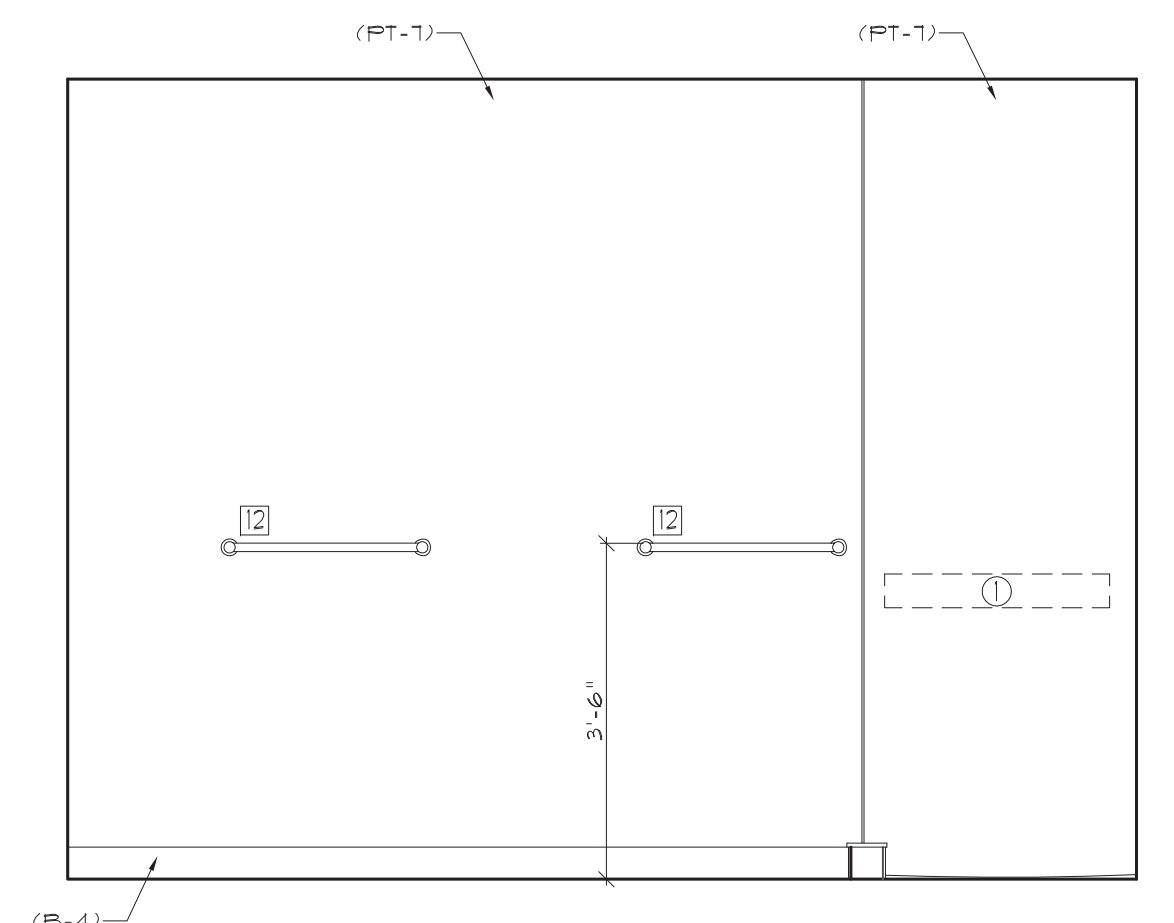
BATH 1 ELEVATIONS (2)



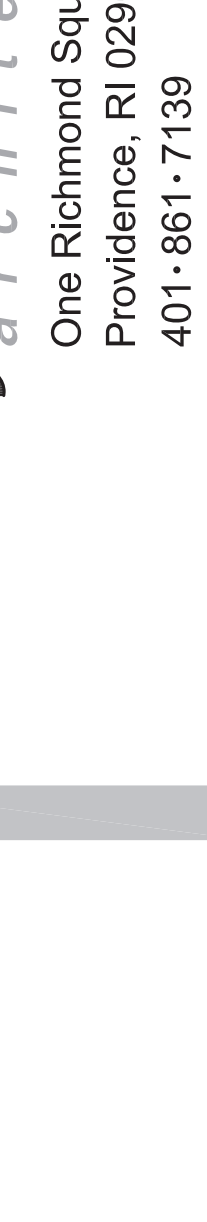
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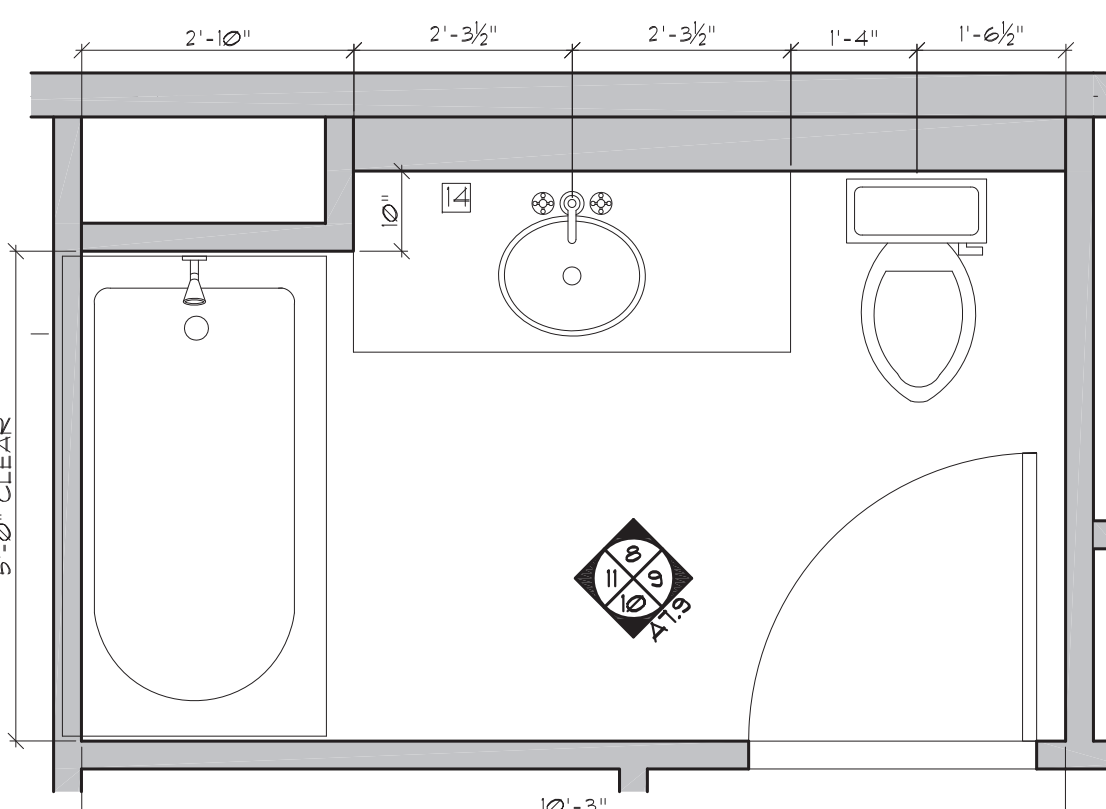
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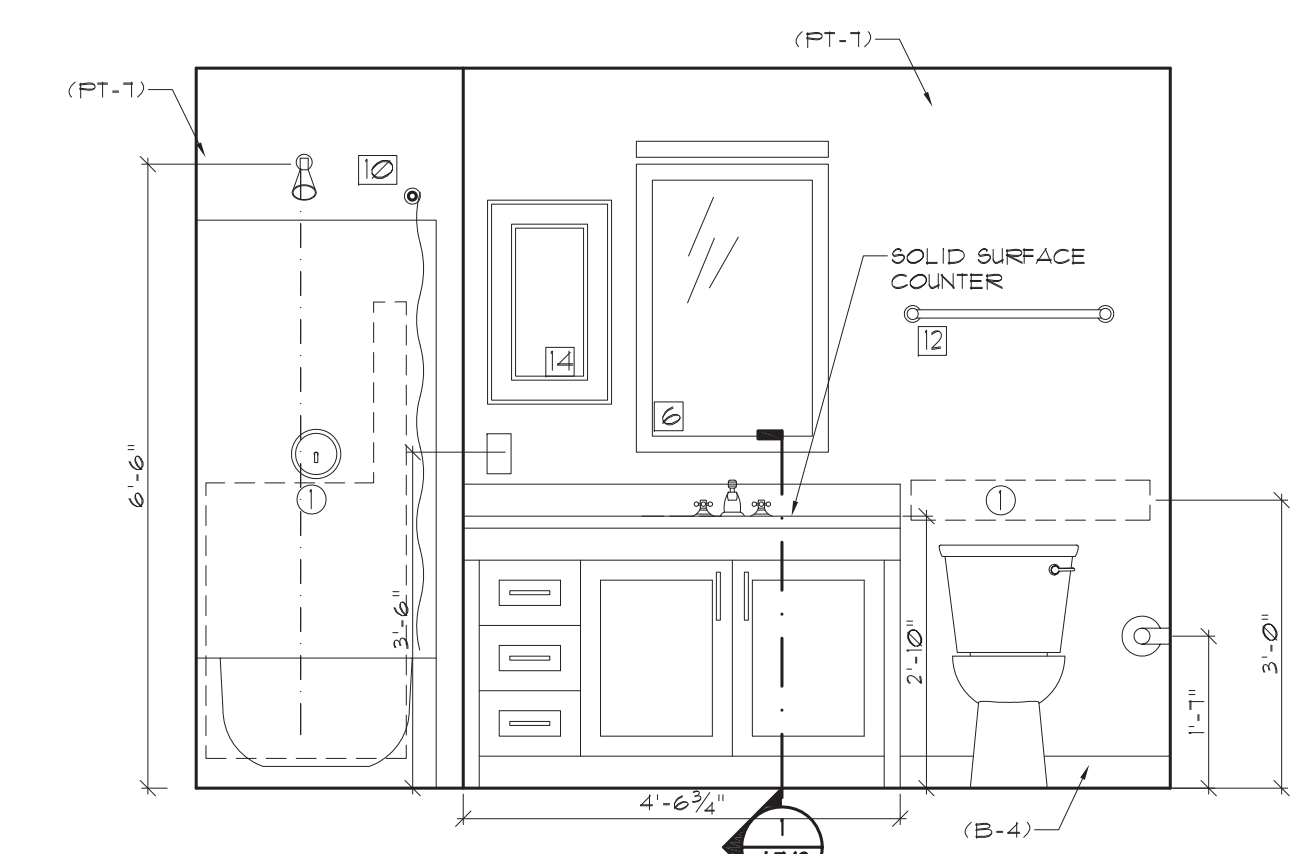
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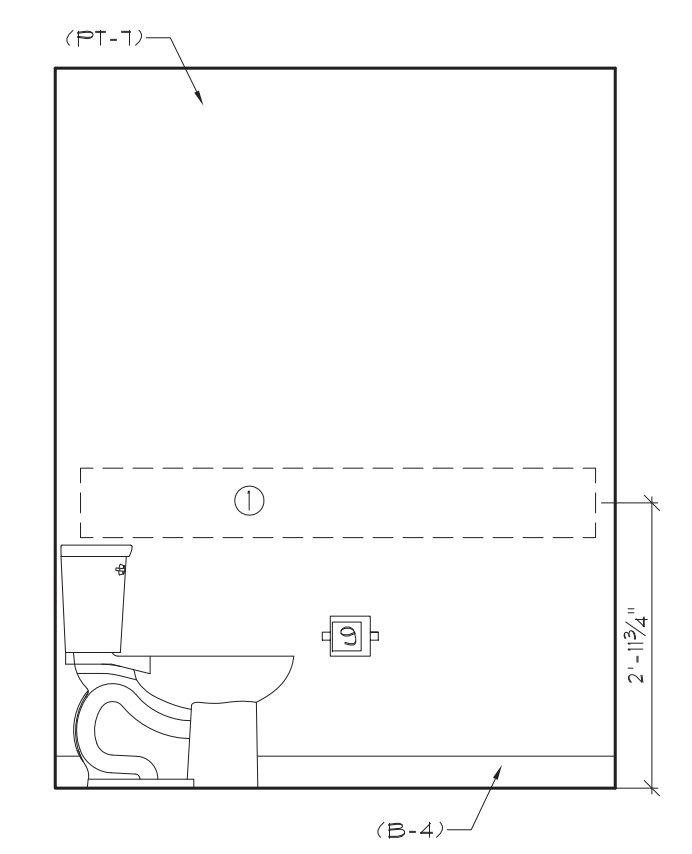
(6) 1/2" = 1'-0"



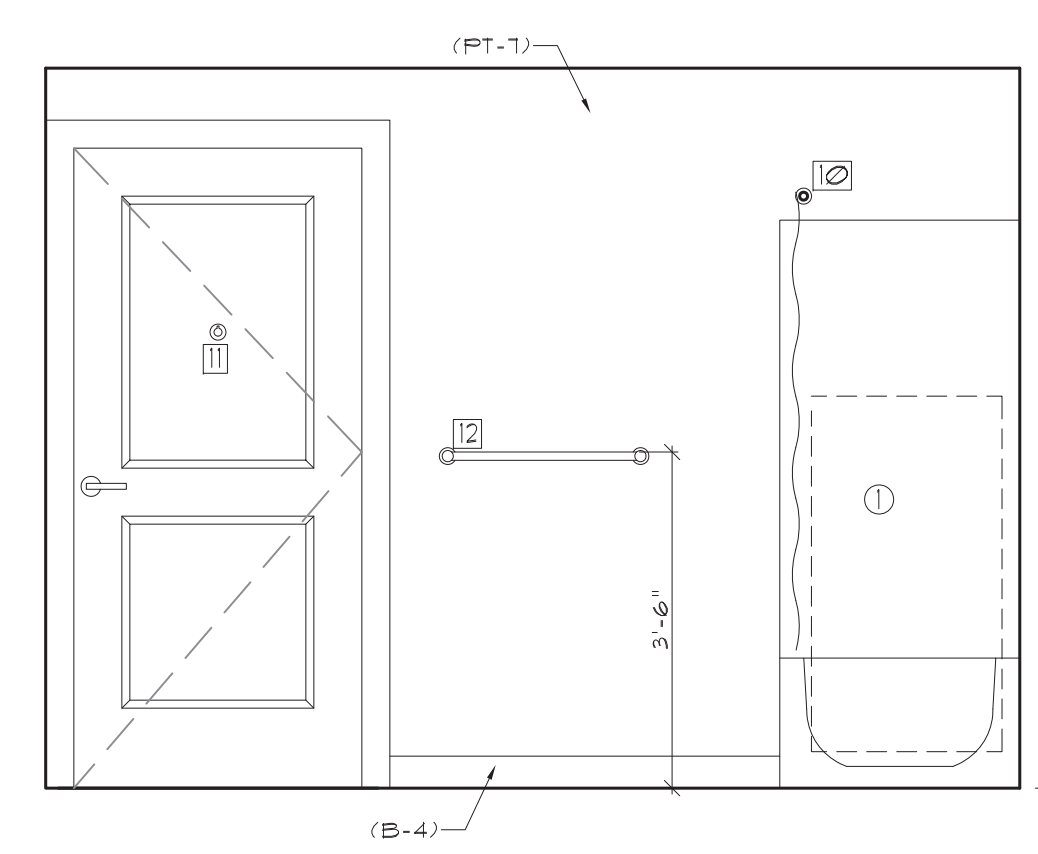
ENLARGED BATH 2 PLAN (7) TYPE 5 UNIT PLAN - GROUP 1



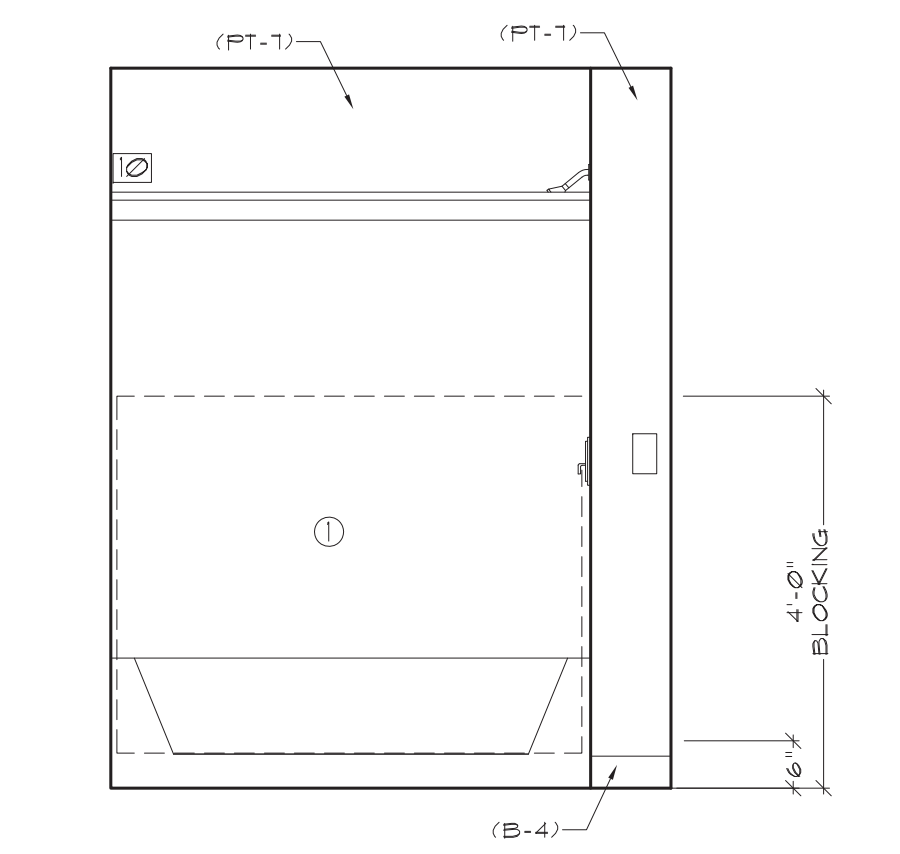
BATH 2 ELEVATIONS (8)



(9)



(10)



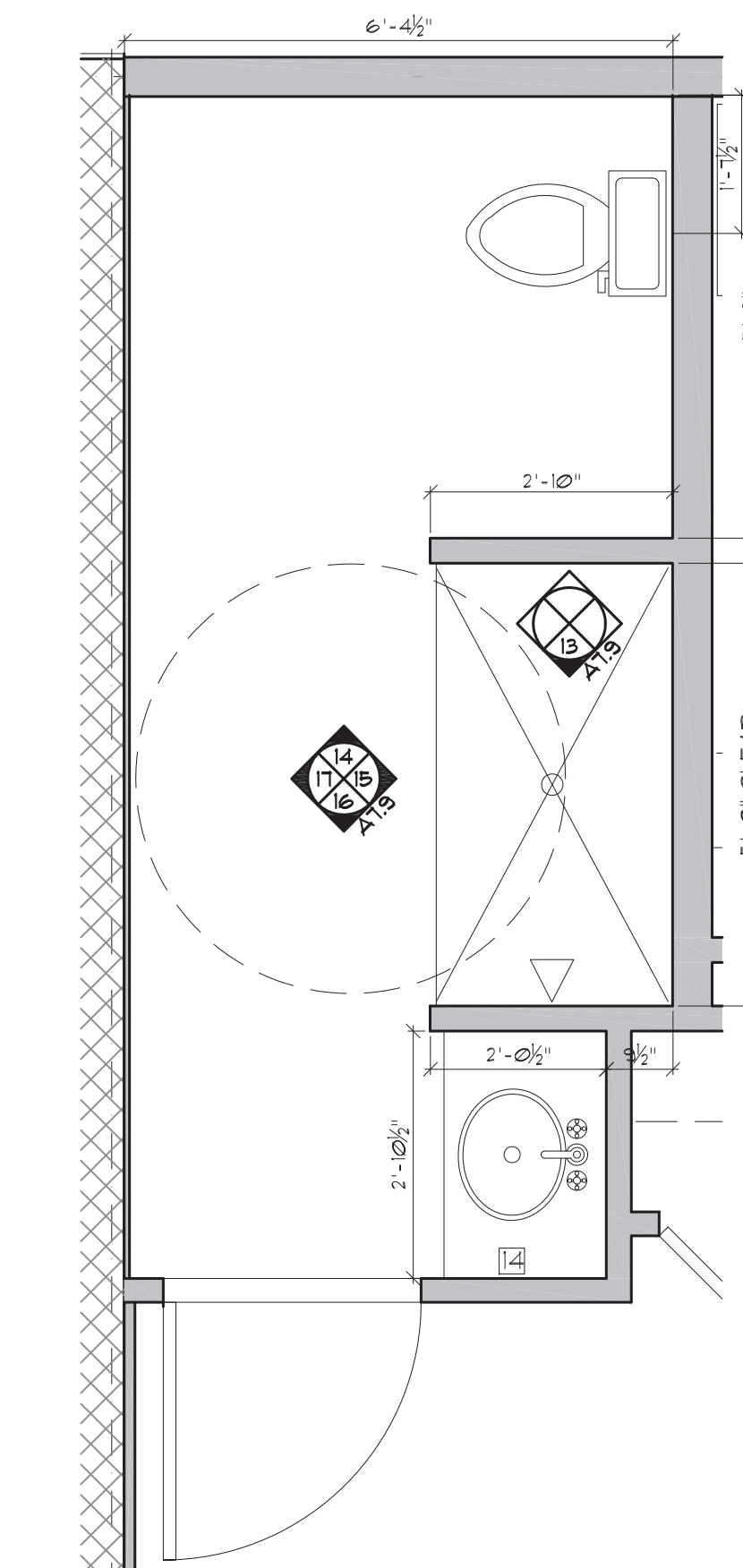
(11) 1/2" = 1'-0"

**FINISH NOTES:**

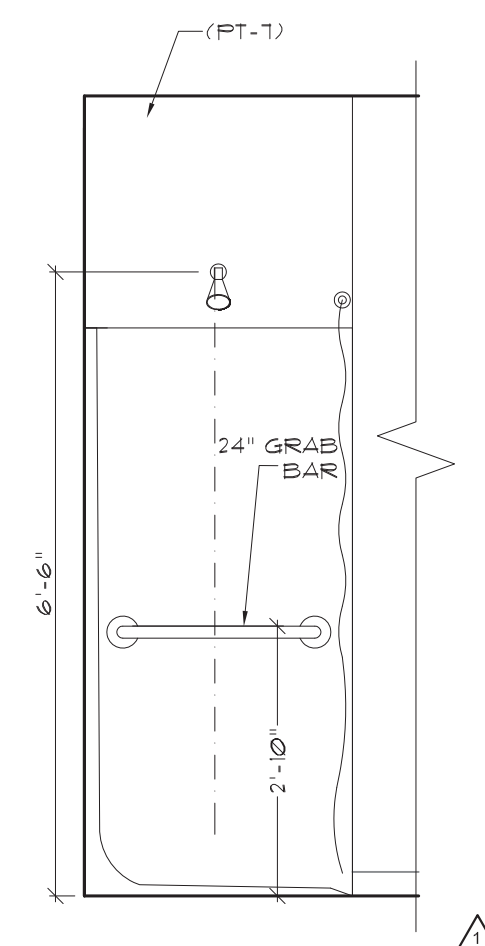
- TRANSITION STRIPS AT ALL CHANGES IN FLOORING FINISHES. CHANGE IN LEVEL IN FLOOR SURFACES SHALL NOT EXCEED 1/8" AND SLOPE OF THRESHOLD SHALL NOT BE GREATER THAN 1:2, IN COMPLIANCE WITH THE AMERICAN DISABILITIES ACT
- DO NOT PAINT ALUMINUM DOORS
- ALL FLOOR FINISHES TO CONTINUE INTO ADJACENT CLOSETS
- AT ALL "GROUP 1" AND "GROUP 2A" UNITS PROVIDE IN-WALL BLOCKING FOR FUTURE GRAB BARS
- AT ALL ADA UNITS: BATH #1, PROVIDE AND INSTALL GRAB BARS AS INDICATED ON DRAWINGS
- AT ALL ADA UNITS: BATH #2, PROVIDE IN-WALL WOOD BLOCKING AS INDICATED FOR FUTURE INSTALLATION OF GRAB BARS
- REFER TO ACCESSORY AND APPLIANCE SCHEDULES ON A82
- PROVIDE IN-WALL BLOCKING FOR ALL BATHROOM ACCESSORIES

**KEY NOTES:**

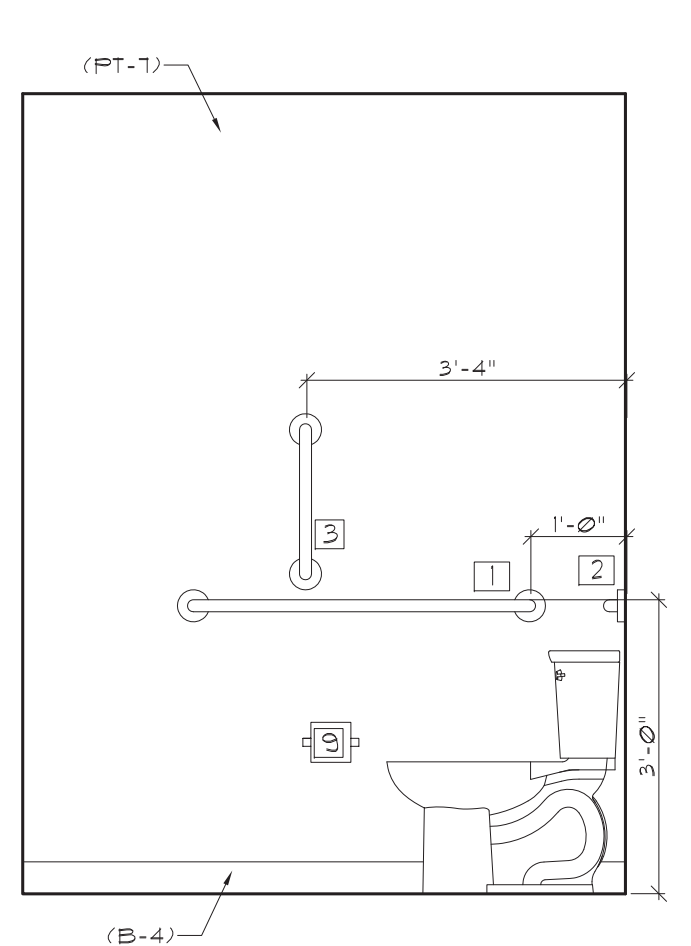
- PROVIDE IN-WALL BLOCKING FOR FUTURE GRAB BARS
- PROVIDE REMOVABLE CABINETS, RUN FLOOR AND WALL FINISHES UNDER COUNTERTOPS/ CABINETS



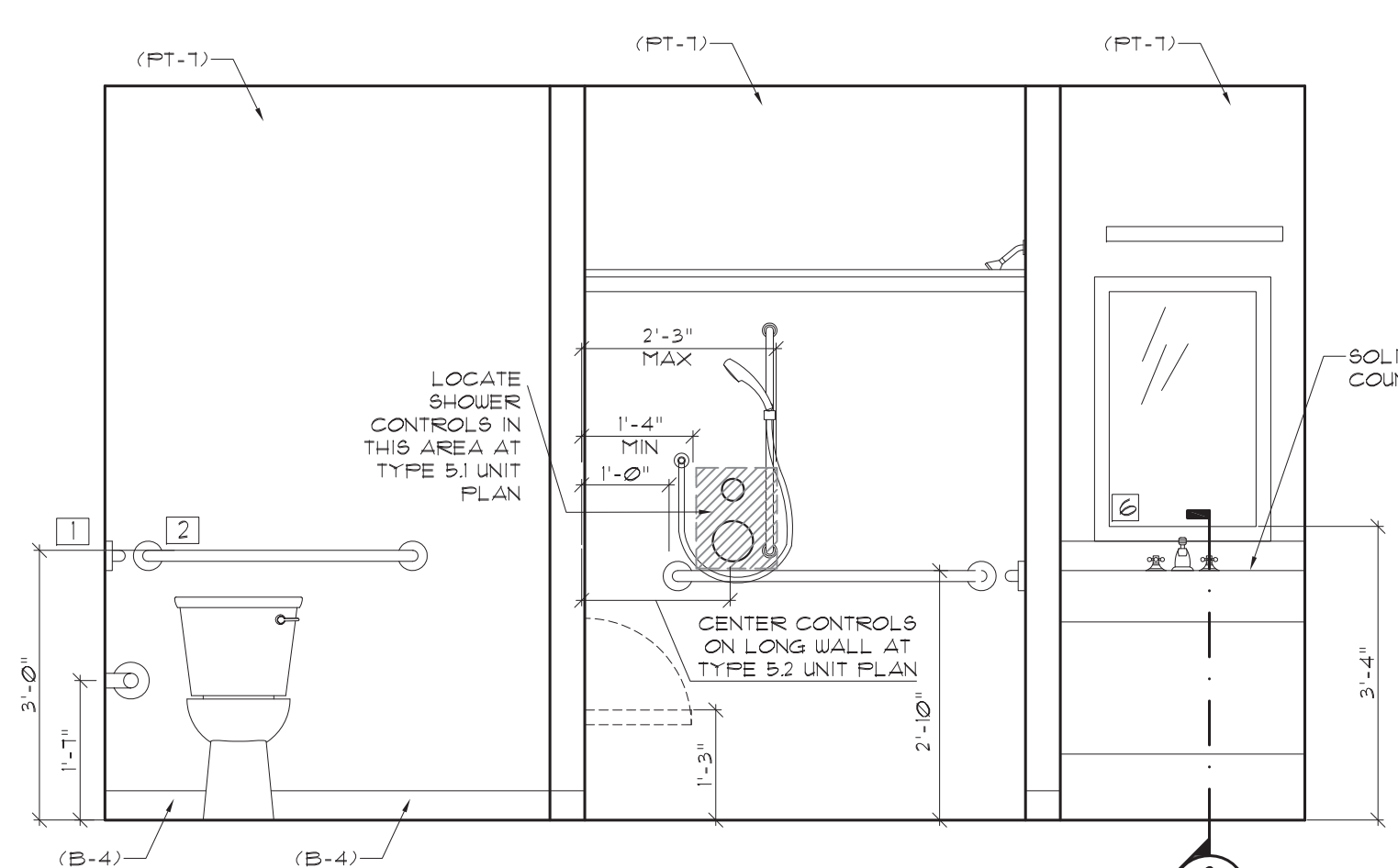
ENLARGED BATH 1 PLAN (12) TYPE 5 UNIT PLAN - FULLY ACCESSIBLE (ADA)



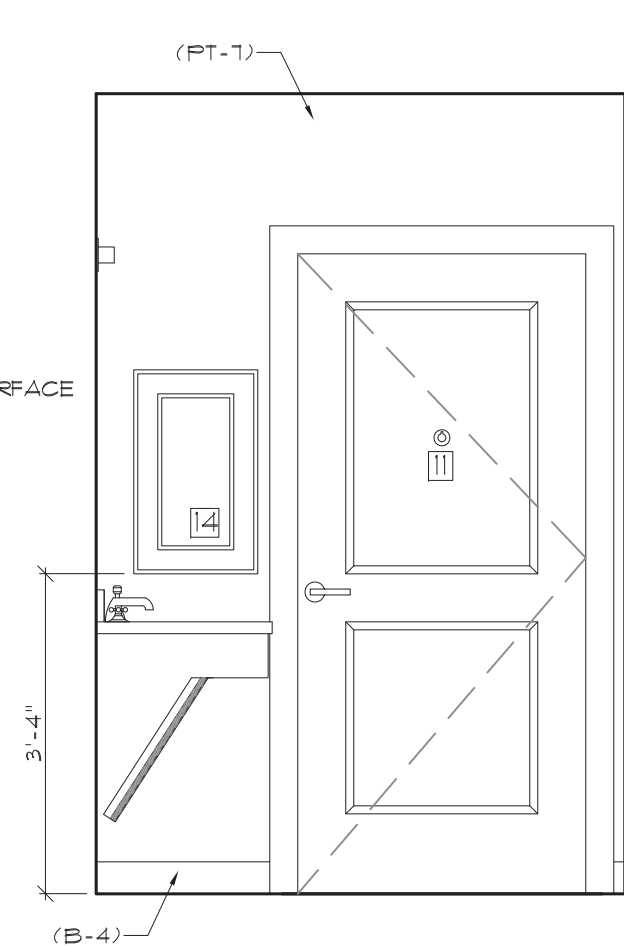
BATH 1 ELEVATIONS (13)



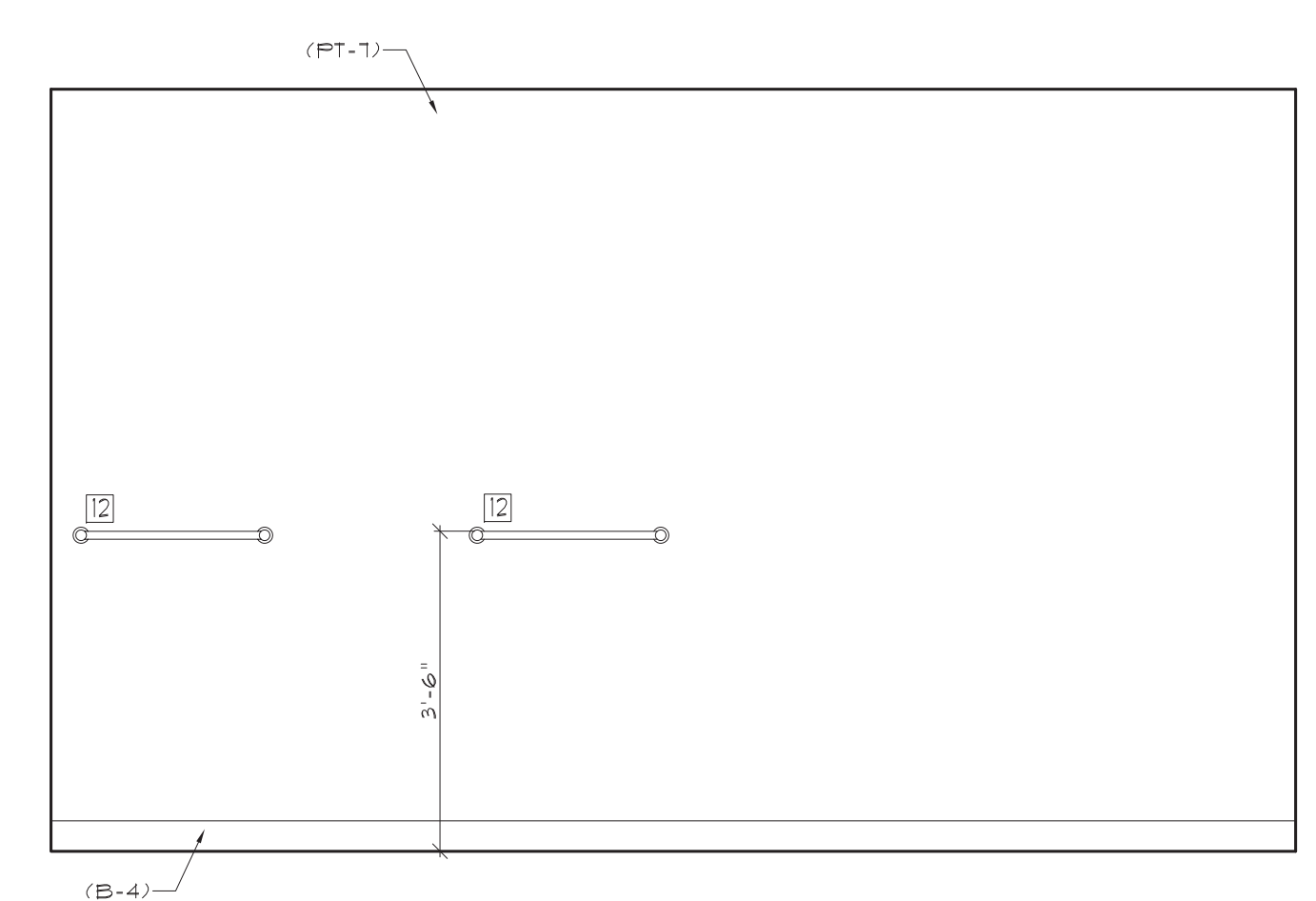
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(15)



(16)



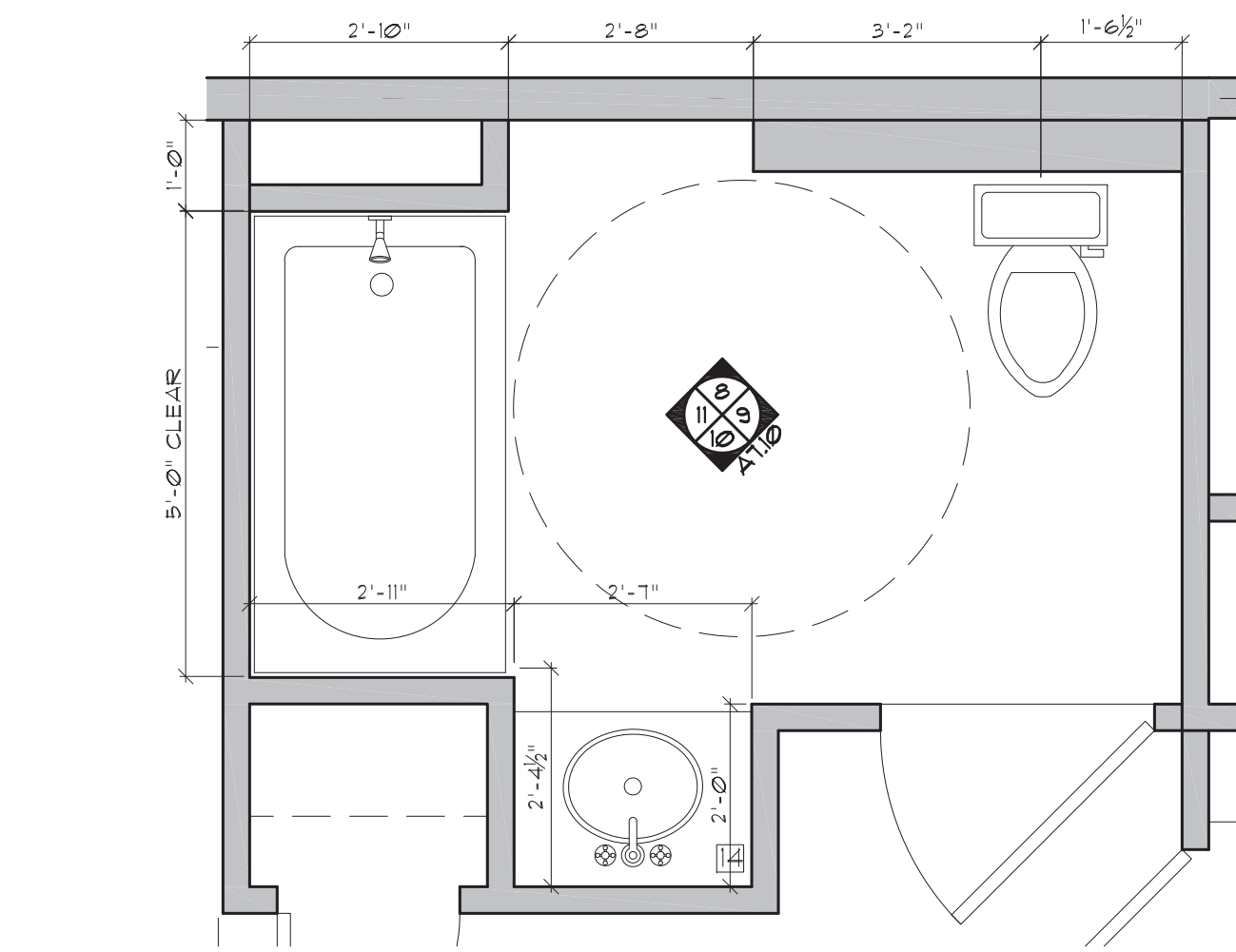
(17) 1/2" = 1'-0"

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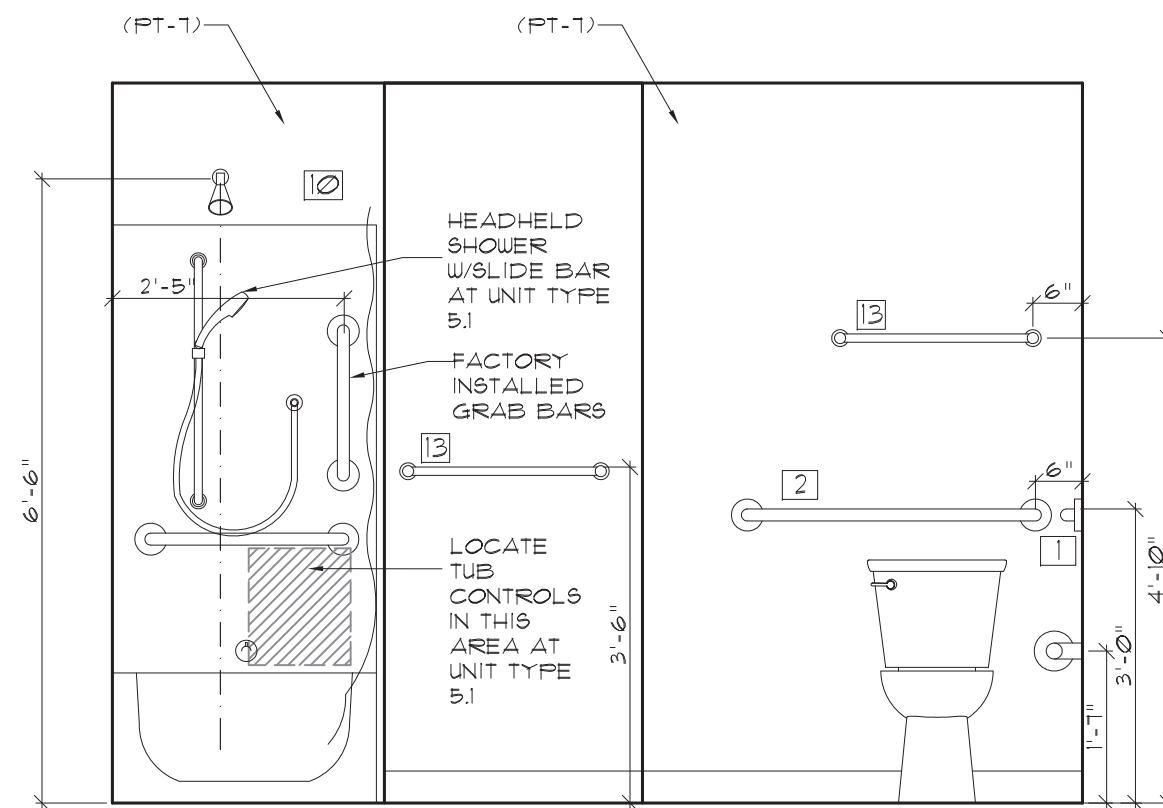


SHEET CONTENTS:  
Interior Elevations

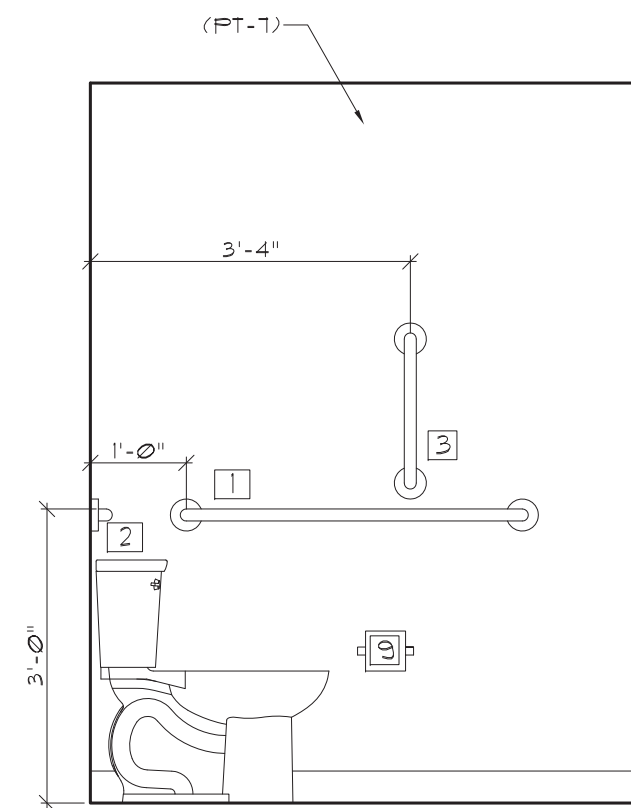
PROJECT # 1420  
DATE: 9/22/2020  
REVISED DATE:  
REVISED: 02/16/2021



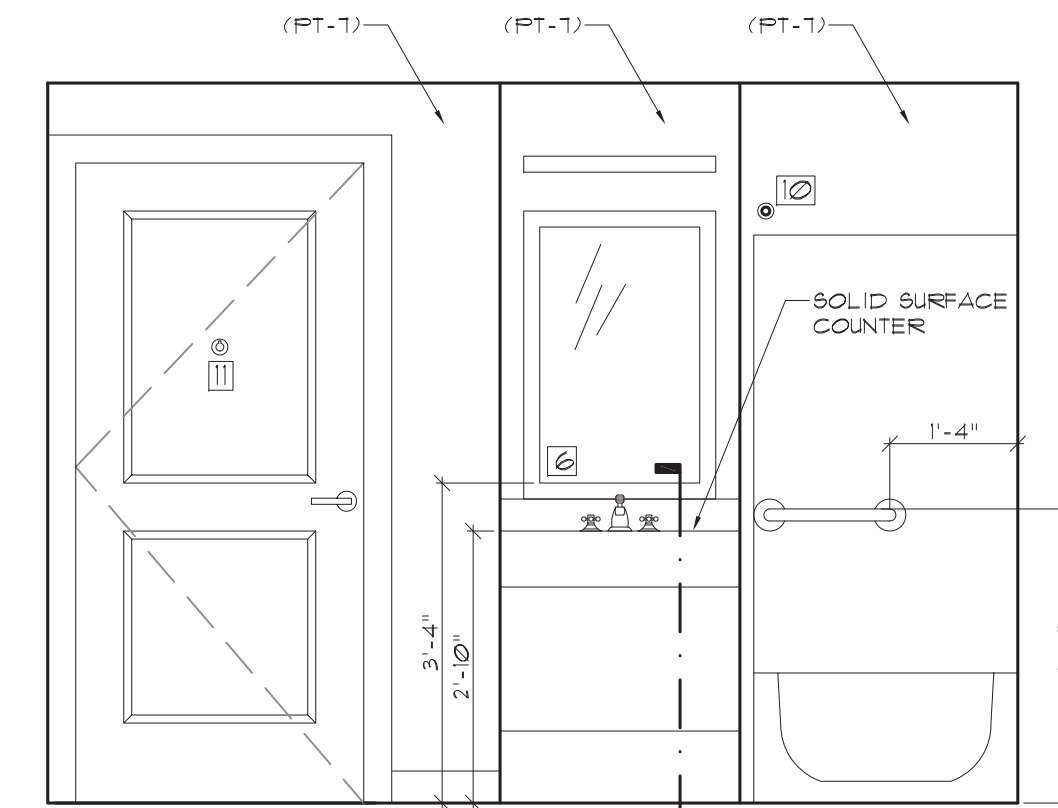
ENLARGED BATH 2 PLAN (7)  
TYPE B1 UNIT PLAN - FULLY ACCESSIBLE (ADA)



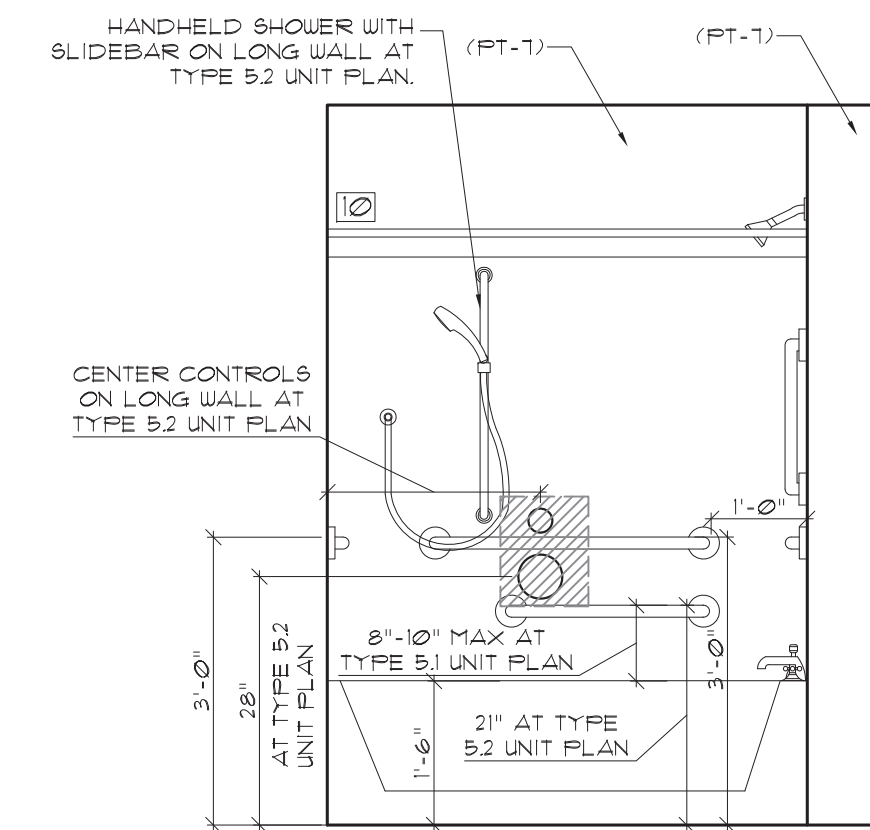
BATH 2 ELEVATIONS (8)



(9)



(10)



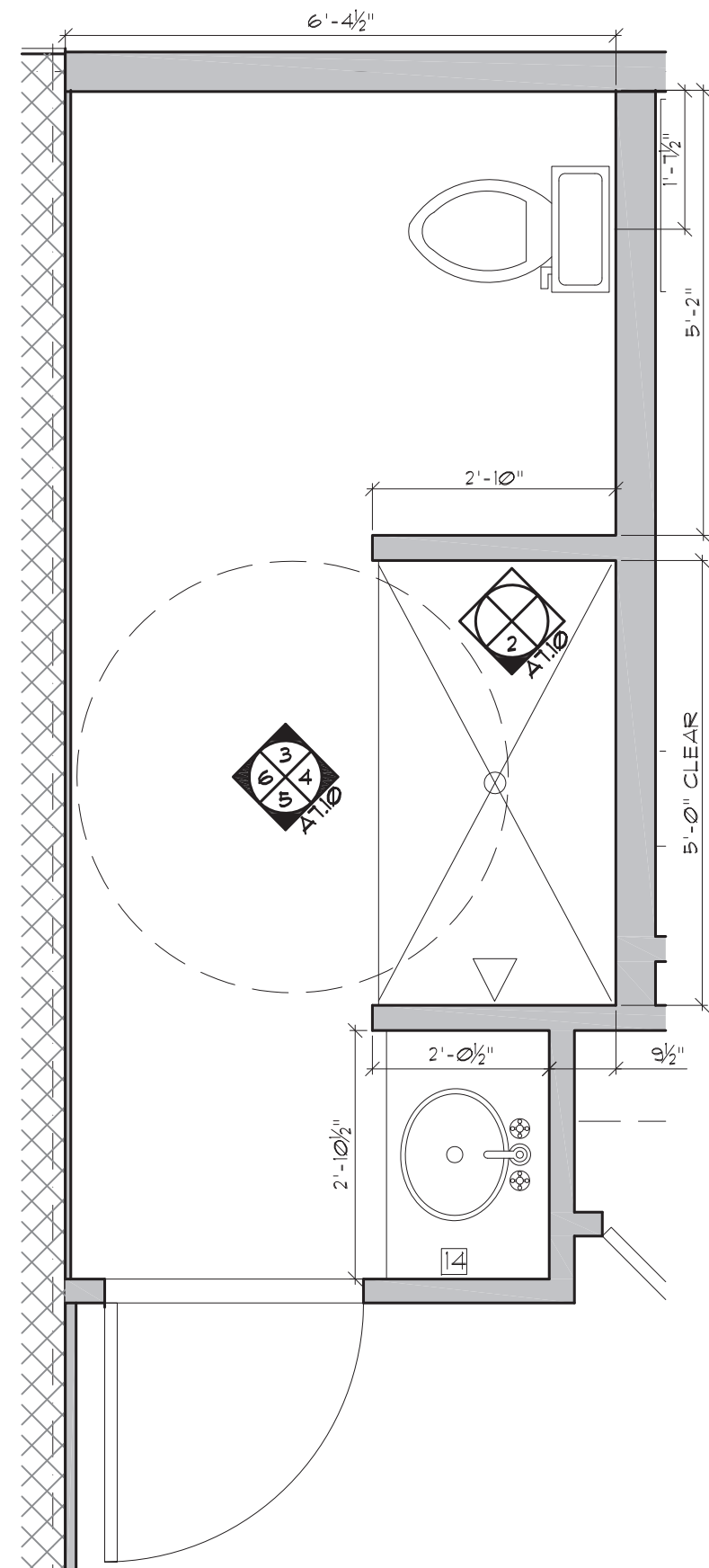
(11) 1/2" = 1'-0"

**FINISH NOTES:**

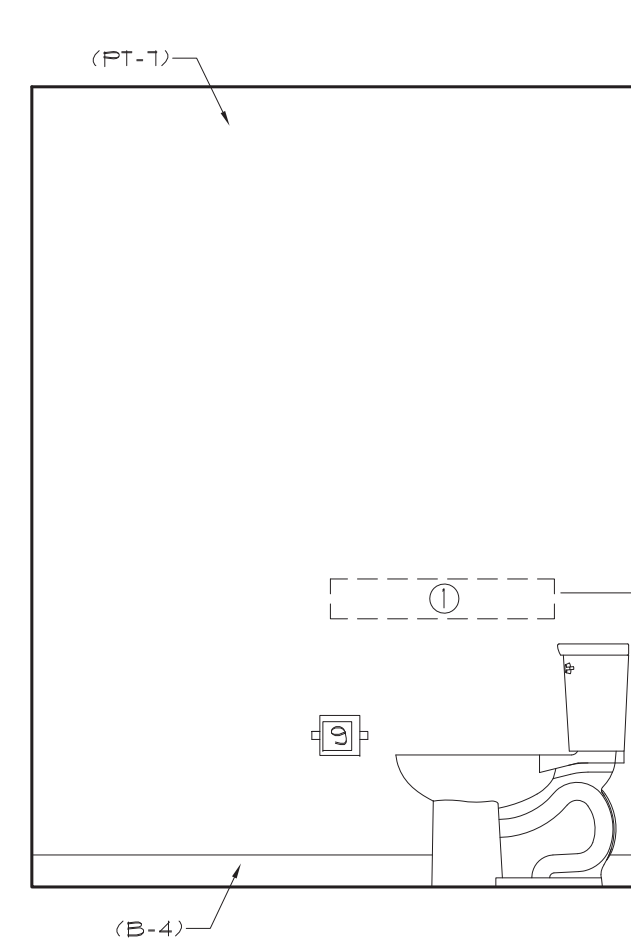
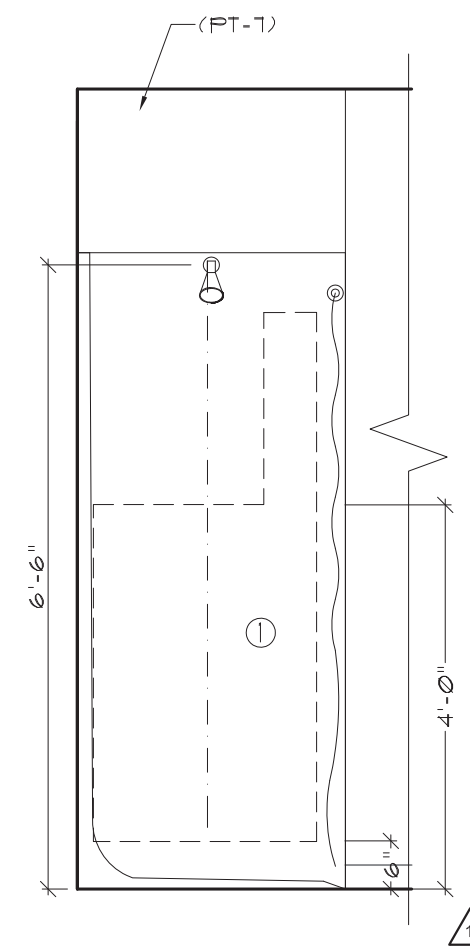
1. TRANSITION STRIPS AT ALL CHANGES IN FLOORING FINISHES. CHANGE IN LEVEL IN FLOOR SURFACES SHALL NOT EXCEED 1/4" AND SLOPE OF THRESHOLD SHALL NOT BE GREATER THAN 1:2, IN COMPLIANCE WITH THE AMERICAN DISABILITIES ACT
2. DO NOT PAINT ALUMINUM DOORS
3. ALL FLOOR FINISHES TO CONTINUE INTO ADJACENT CLOSETS
4. AT ALL "GROUP 1" AND "GROUP 2A" UNITS PROVIDE IN-WALL BLOCKING FOR FUTURE GRAB BARS
5. AT ALL ADA UNITS, BATH #1, PROVIDE AND INSTALL GRAB BARS, AS INDICATED ON DRAWINGS
6. AT ALL ADA UNITS, BATH #2, PROVIDE IN-WALL WOOD BLOCKING AS INDICATED FOR FUTURE INSTALLATION OF GRAB BARS
7. REFER TO ACCESSORY AND APPLIANCE SCHEDULES ON A82
8. PROVIDE IN-WALL BLOCKING FOR ALL BATHROOM ACCESSORIES

**KEY NOTES:**

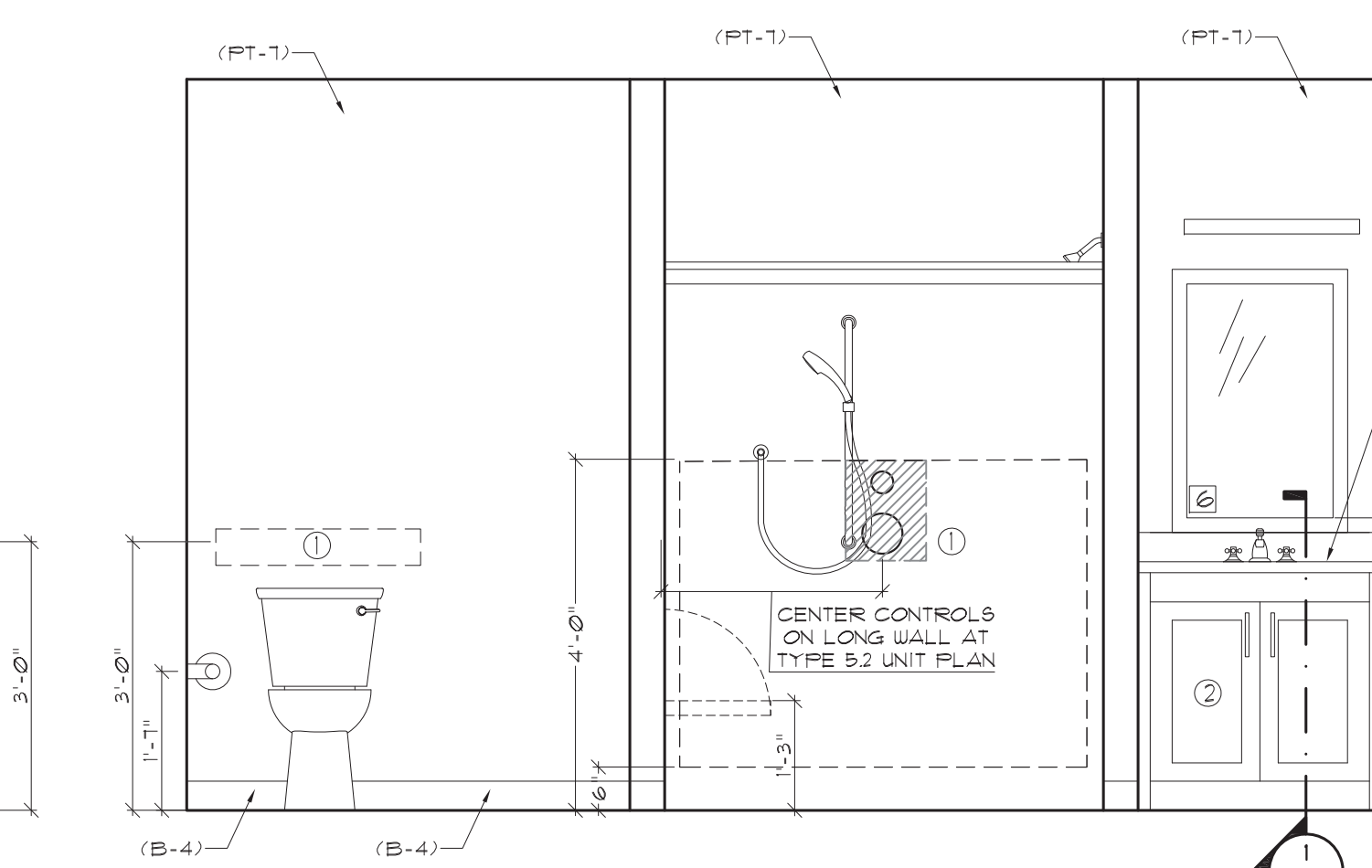
1. PROVIDE IN WALL BLOCKING FOR FUTURE GRAB BARS
2. PROVIDE REMOVABLE CABINETS, RUN FLOOR AND WALL FINISHES UNDER COUNTERTOPS/ CABINETS



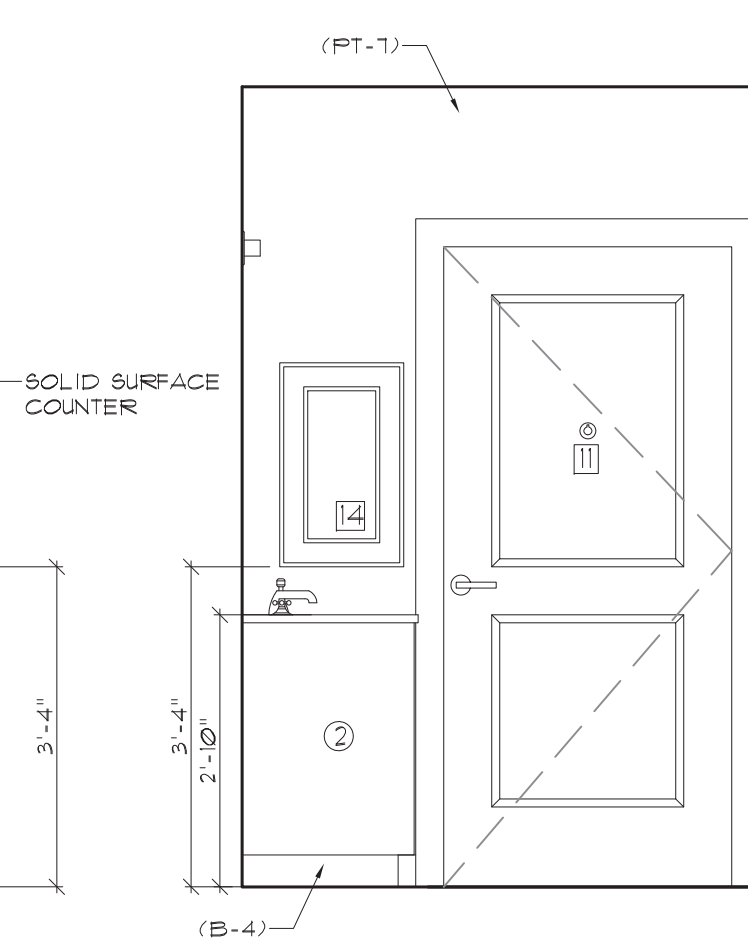
ENLARGED BATH 1 PLAN (1) BATH 1 (2)  
TYPE B2 UNIT PLAN - GROUP 2A ELEVATIONS



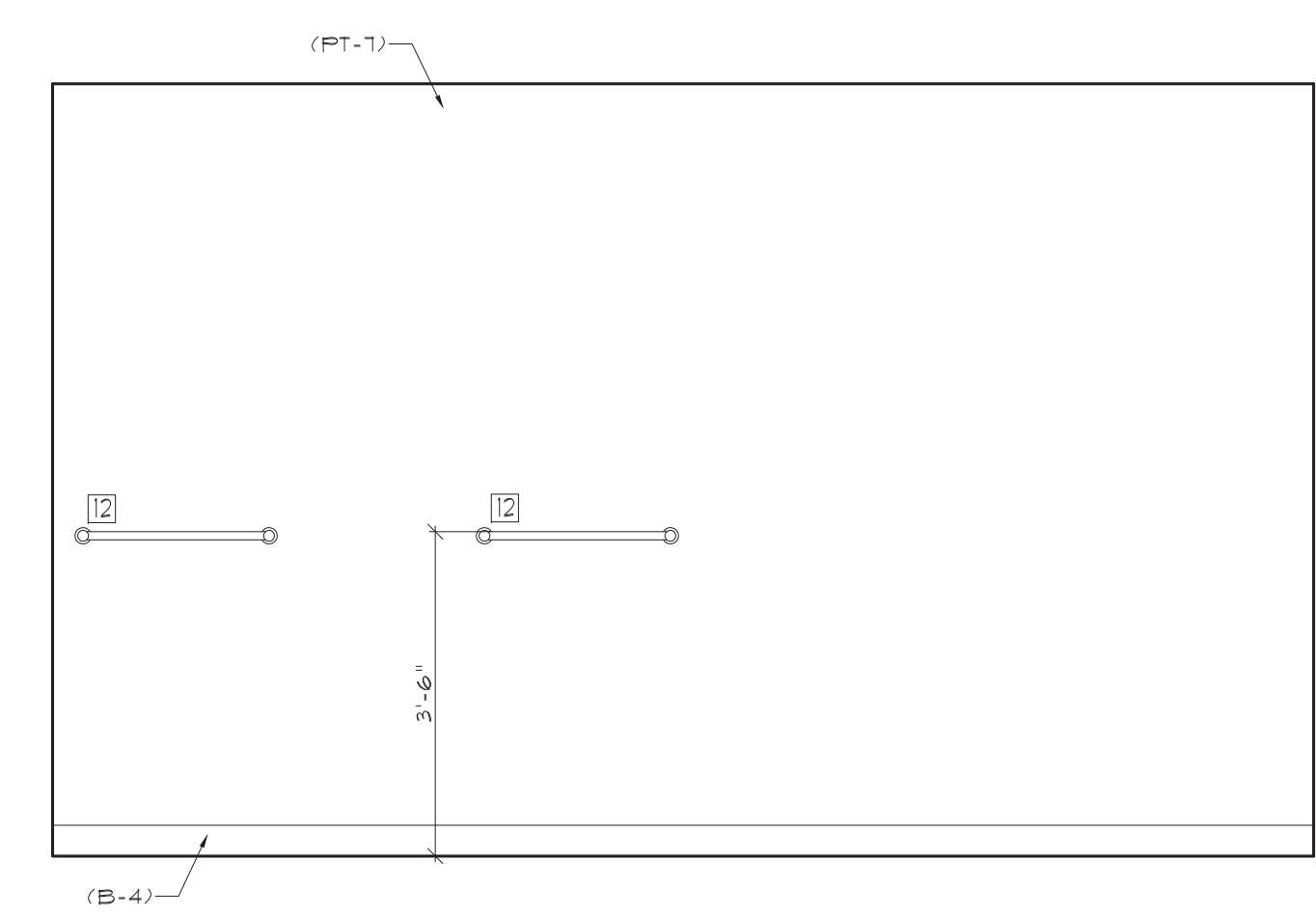
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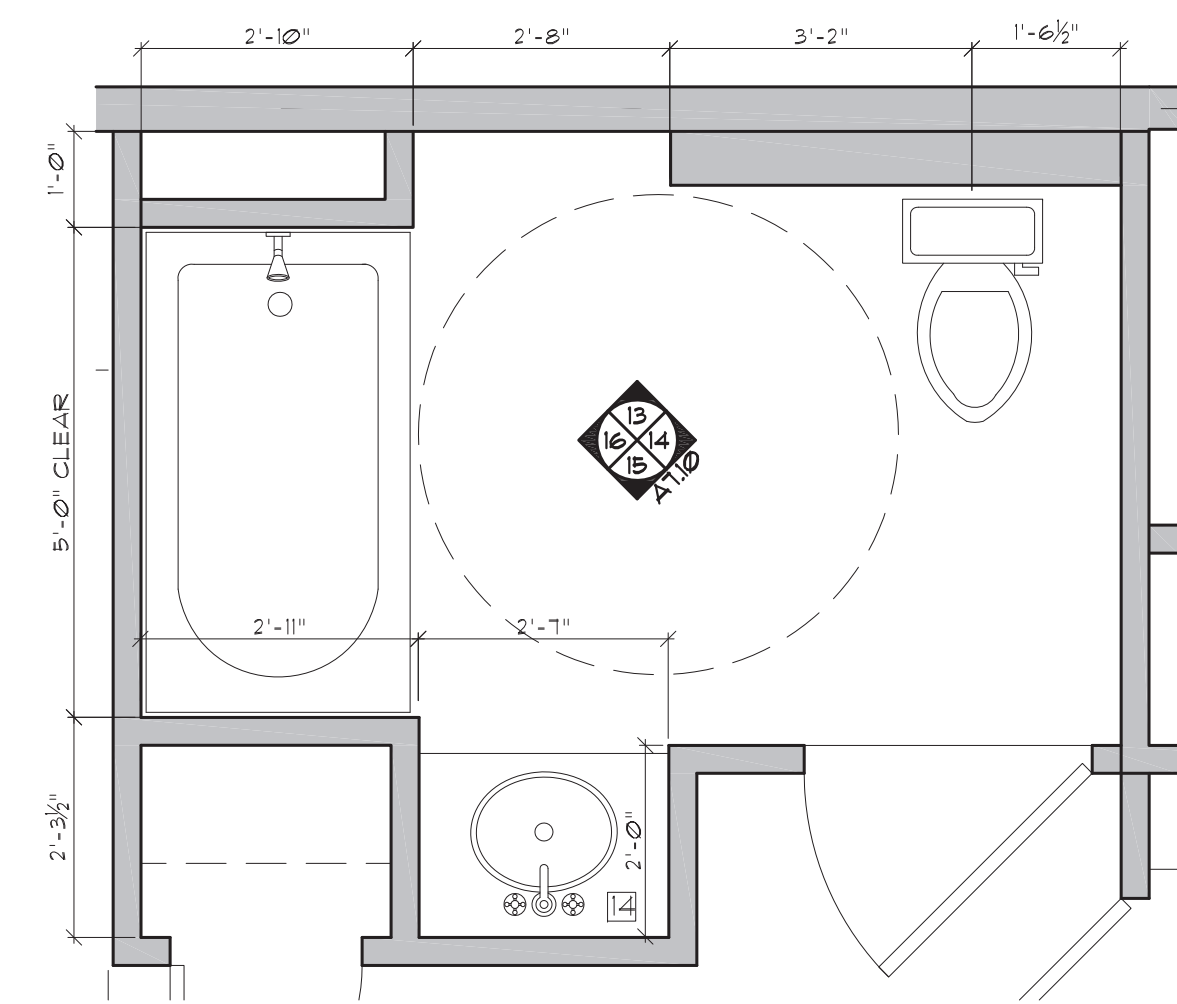
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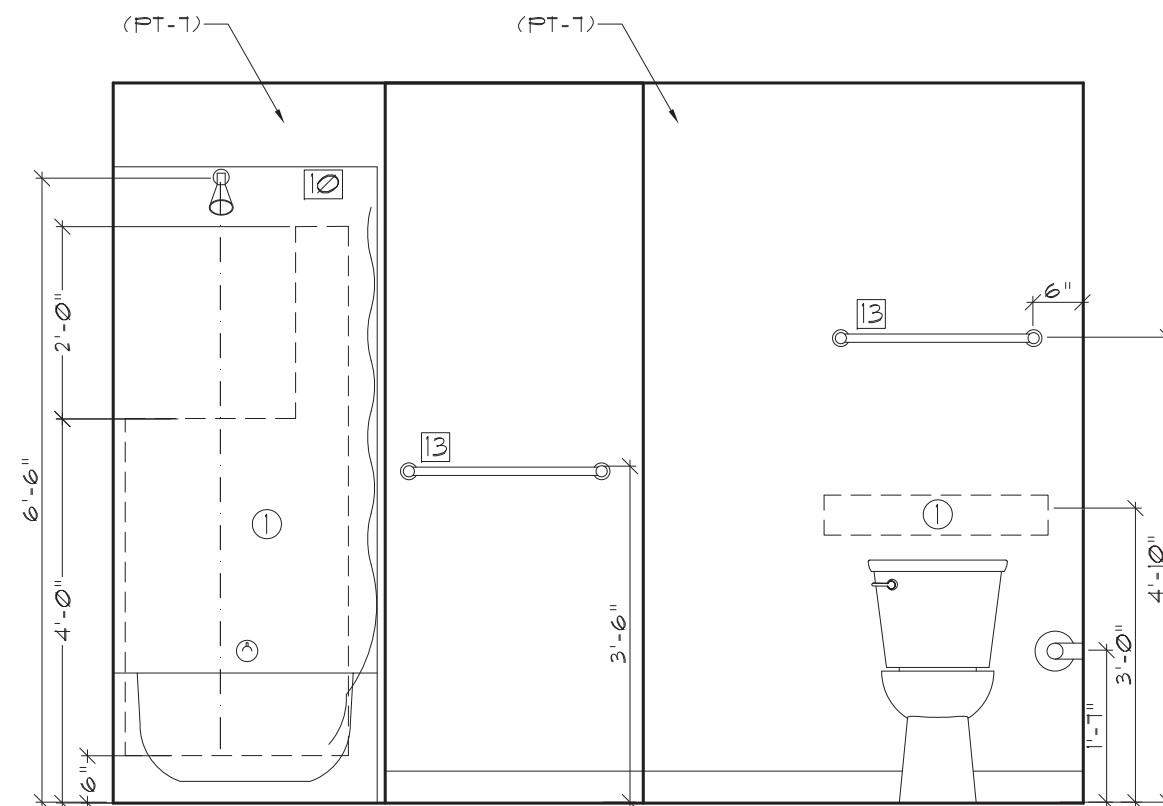
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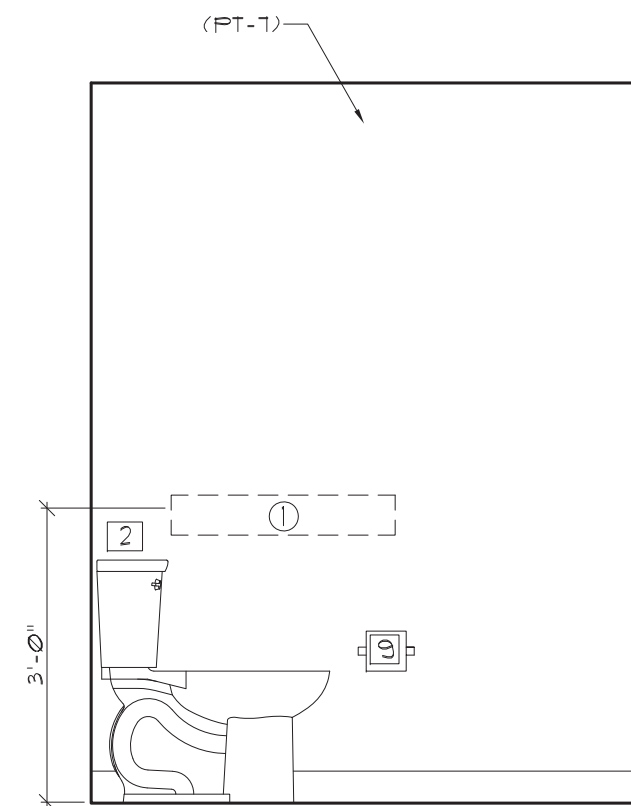
(6) 1/2" = 1'-0"



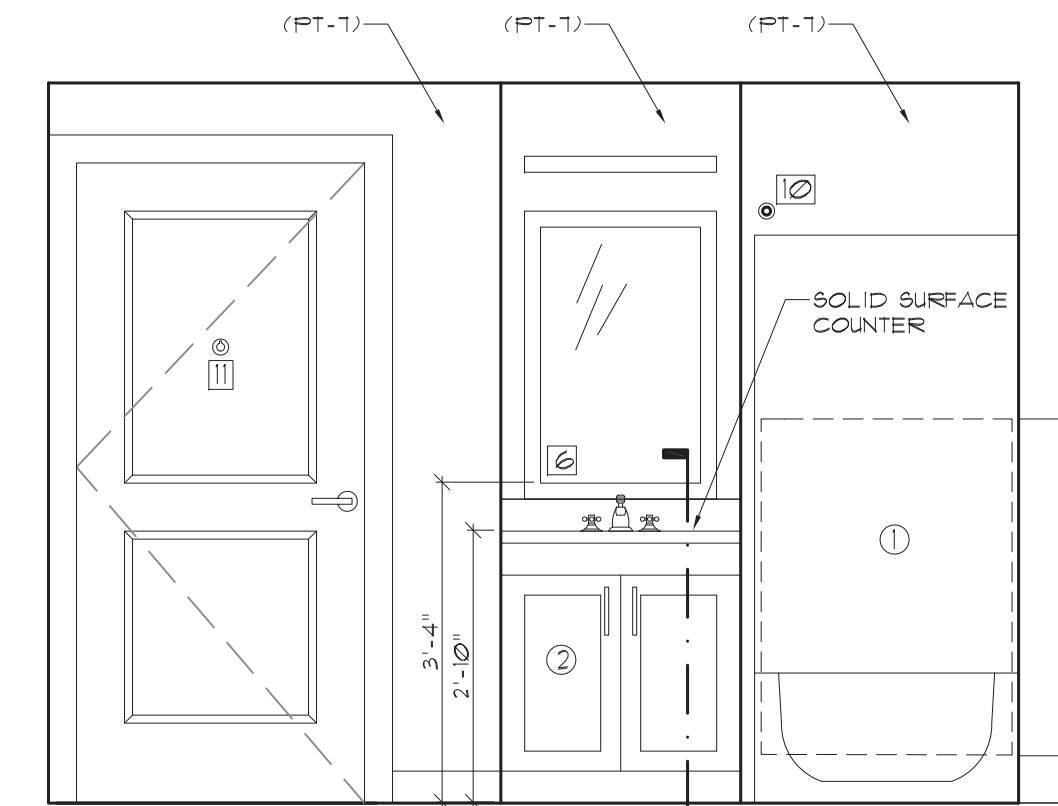
ENLARGED BATH 2 PLAN (12)  
TYPE B2 UNIT PLAN - GROUP 2A



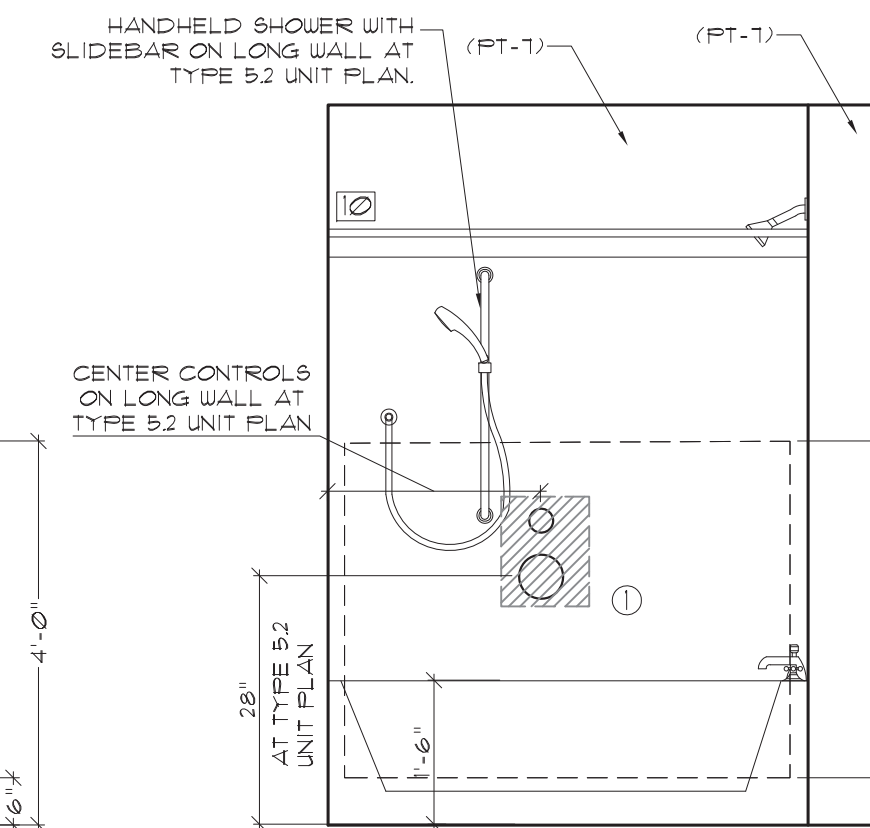
BATH 2 ELEVATIONS (13)



(14)



(15)



(16) 1/2" = 1'-0"



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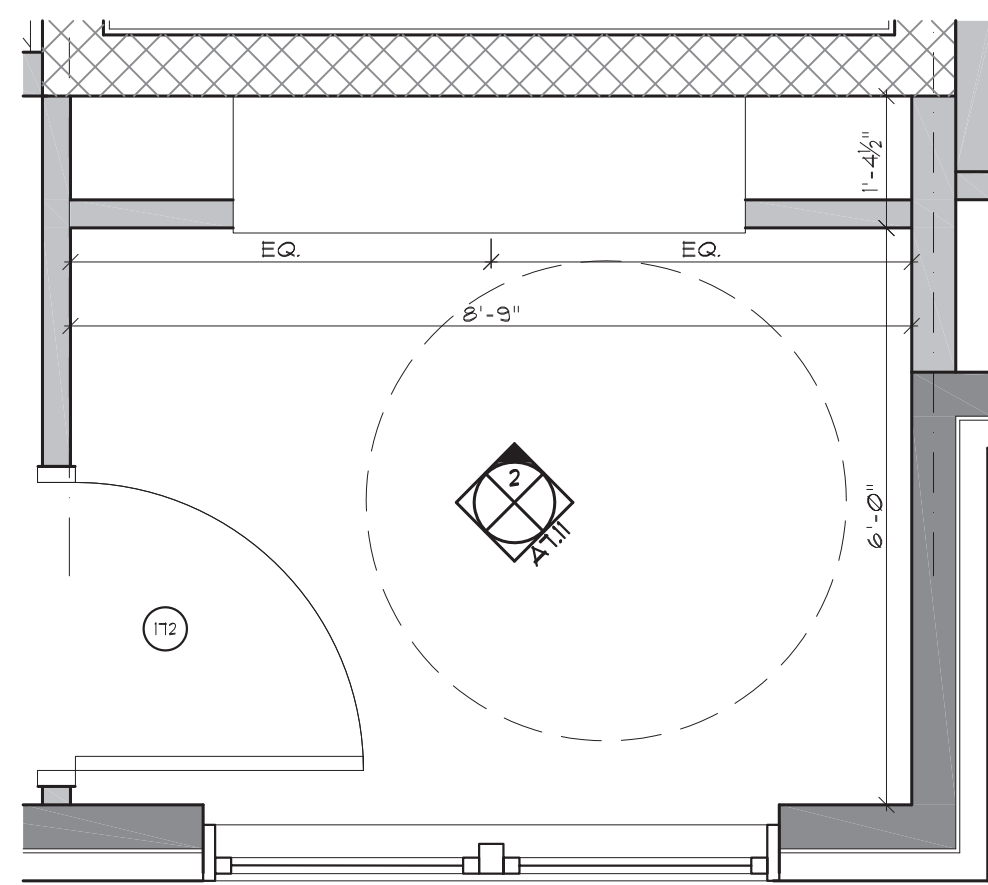
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**FINISH NOTES:**

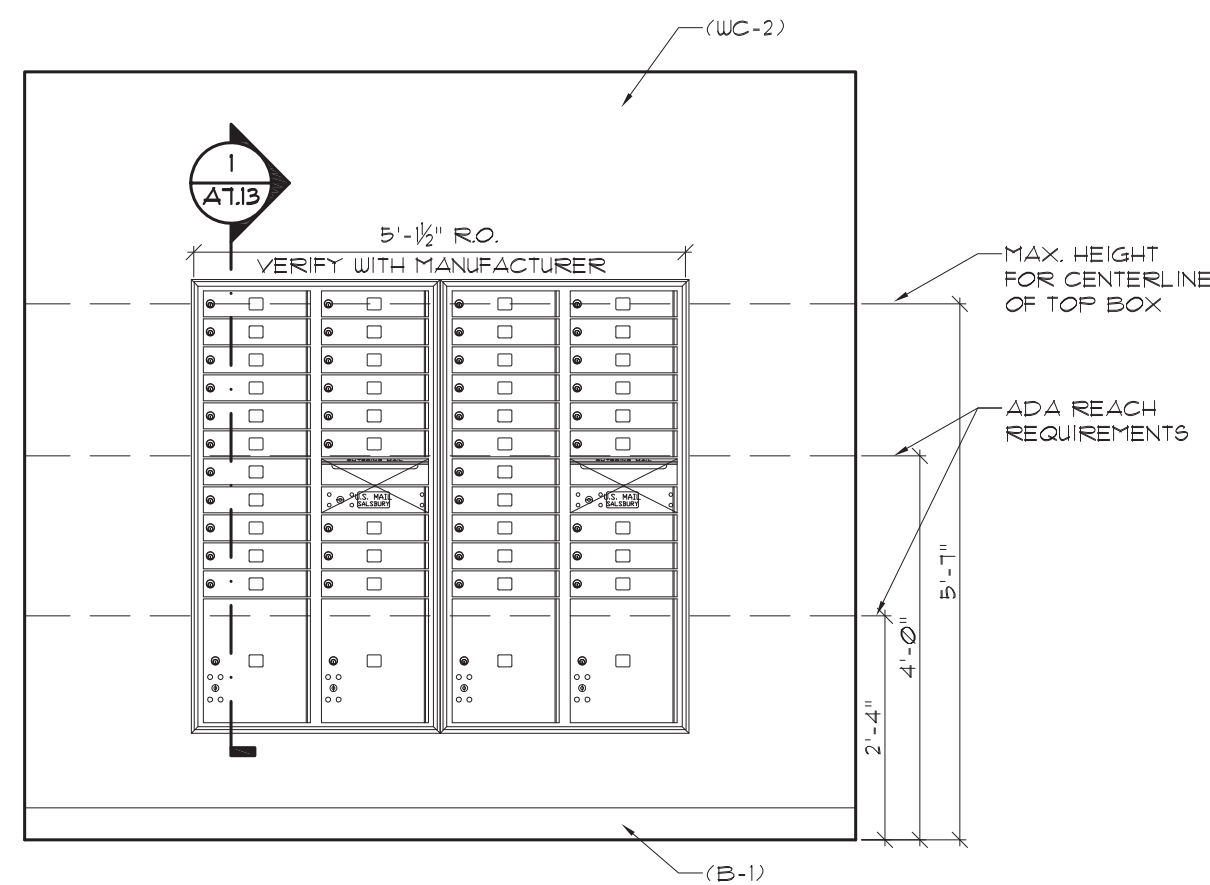
1. TRANSITION STRIPS AT ALL CHANGES IN FLOOR FINISHES. CHANGE IN LEVEL IN FLOOR SURFACES SHALL NOT EXCEED 1/4" AND SLOPE OF THRESHOLD SHALL NOT BE GREATER THAN 1/2, IN COMPLIANCE WITH THE AMERICAN DISABILITIES ACT
2. DO NOT PAINT ALUMINUM DOORS
3. ALL FLOOR FINISHES TO CONTINUE INTO ADJACENT CLOSETS
4. AT ALL "GROUP 1" AND "GROUP 2A" UNITS PROVIDE IN-WALL BLOCKING FOR FUTURE GRAB BARS
5. AT ALL ADA UNITS: BATH #1, PROVIDE AND INSTALL GRAB BARS, AS INDICATED ON DRAWINGS
6. AT ALL ADA UNITS: BATH #2, PROVIDE IN-WALL WOOD BLOCKING AS INDICATED FOR FUTURE INSTALLATION OF GRAB BARS
7. REFER TO "ID DRAWINGS" FOR ADDITIONAL INFORMATION ON FINISHES
8. REFER TO ACCESSORY AND APPLIANCE SCHEDULES ON A82
9. PROVIDE IN-WALL BLOCKING FOR ALL BATHROOM ACCESSORIES

**KEY NOTES:**

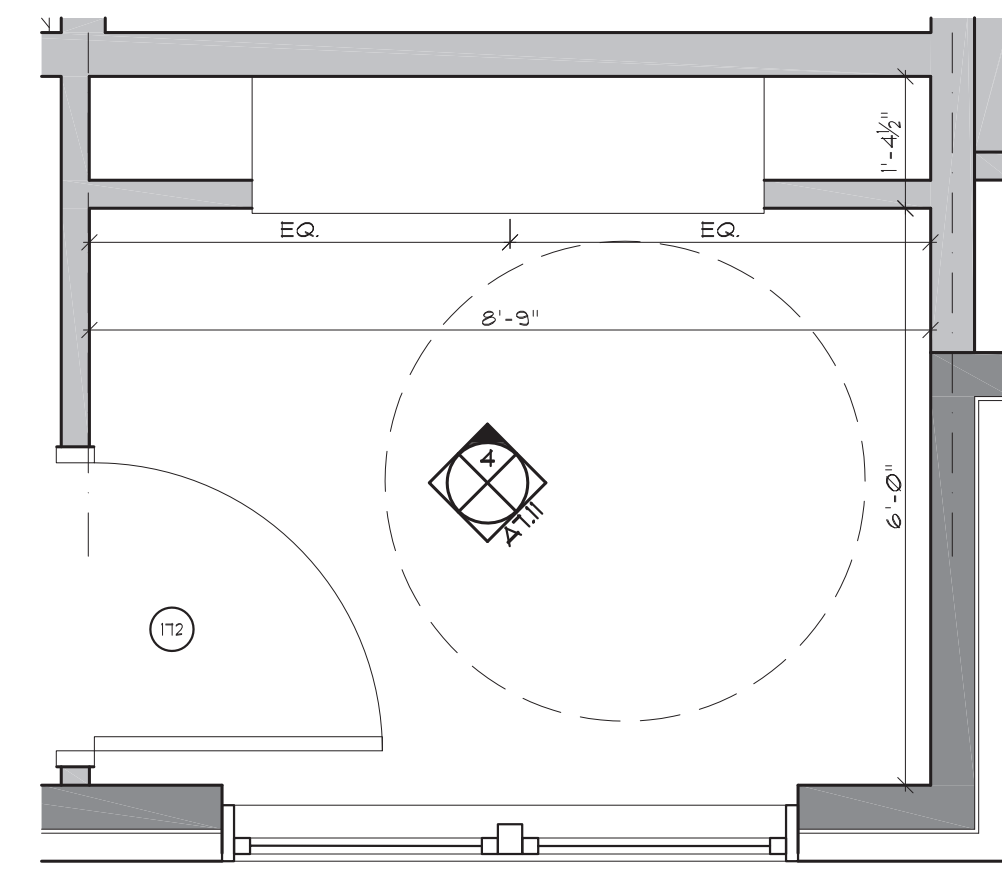
- ① PROVIDE IN WALL BLOCKING FOR FUTURE GRAB BARS
- ② PROVIDE REMOVABLE CABINETS, RUN FLOOR AND WALL FINISHES UNDER COUNTERTOPS/ CABINETS



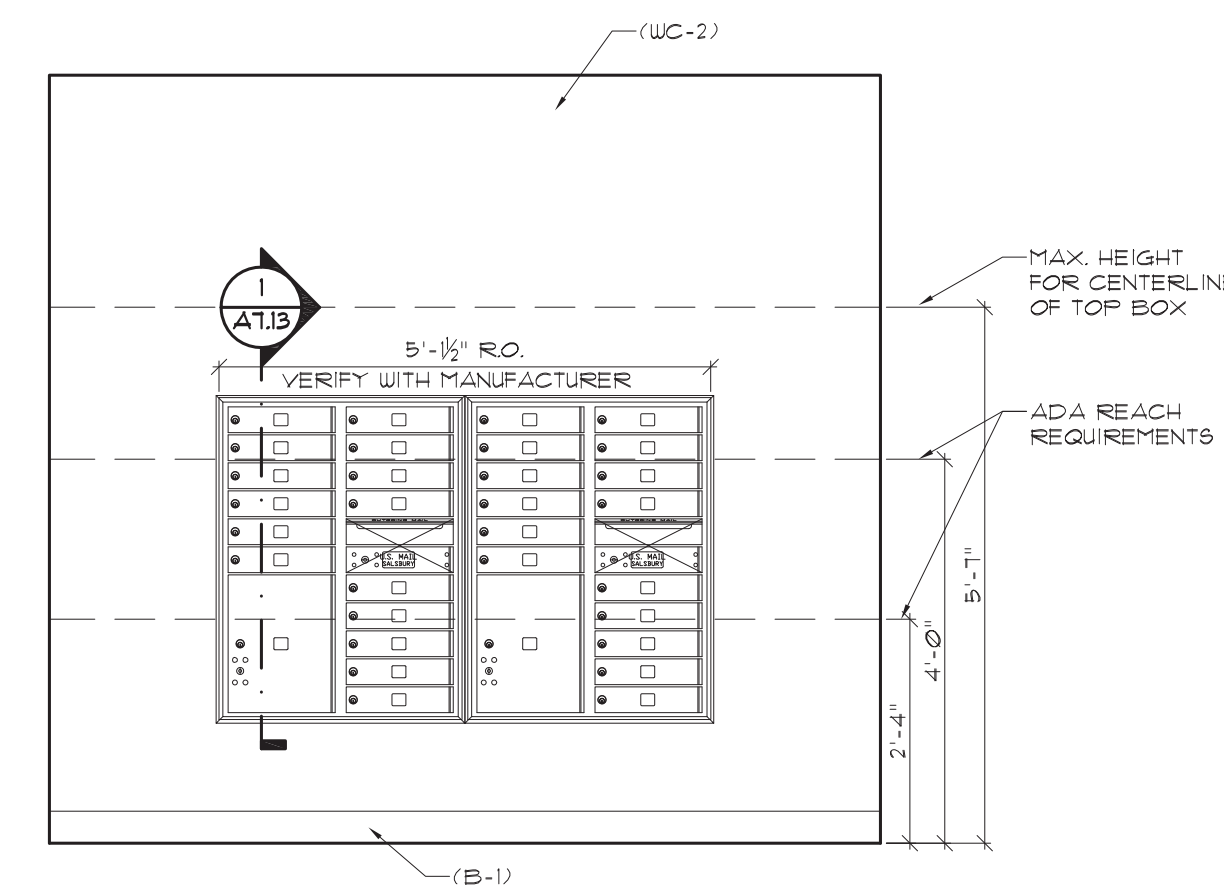
**ENLARGED MAIL ROOM (1)**  
BUILDING E



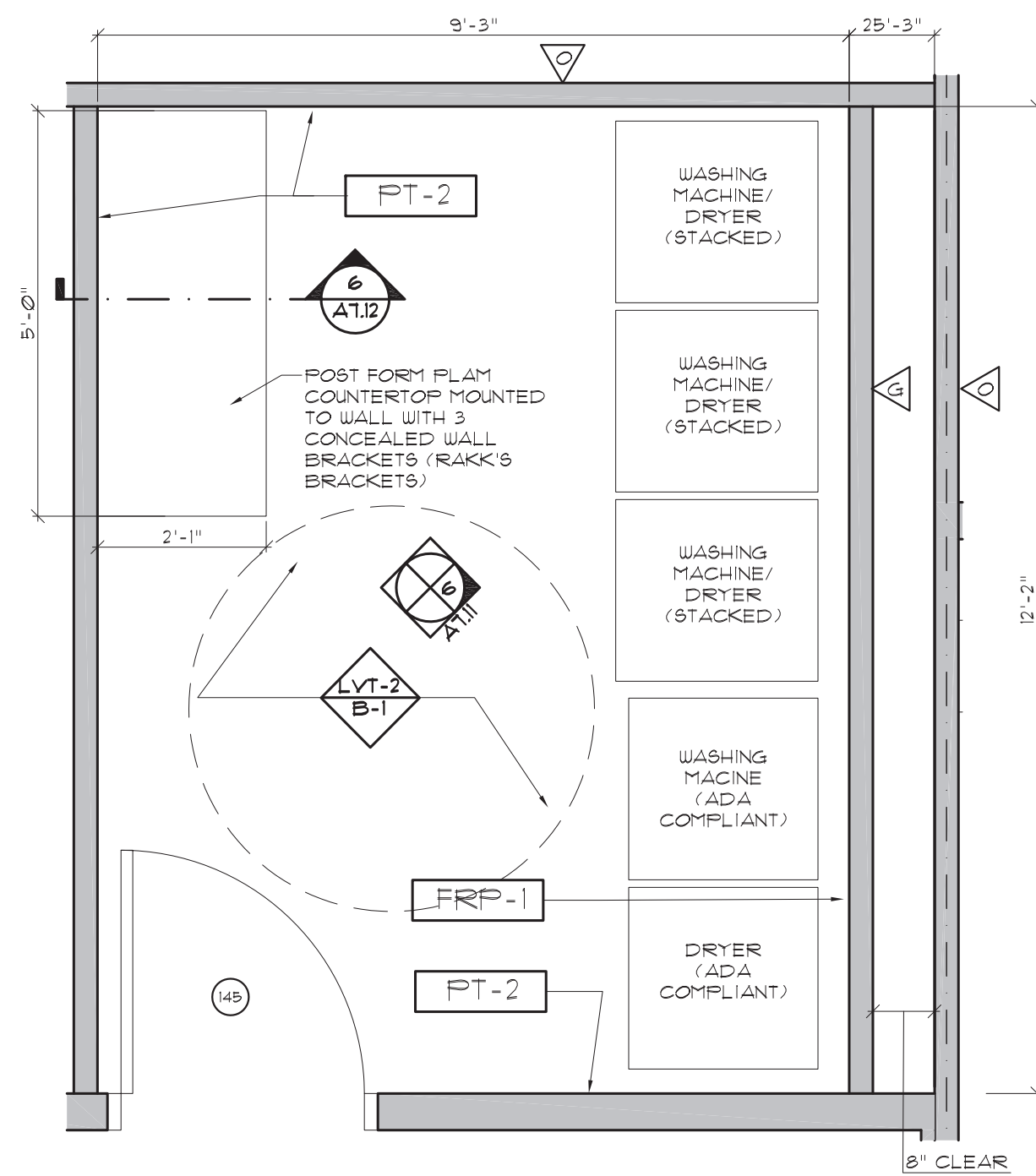
**MAIL ROOM ELEVATION (2)** 1/2" = 1'-0"  
BUILDING E



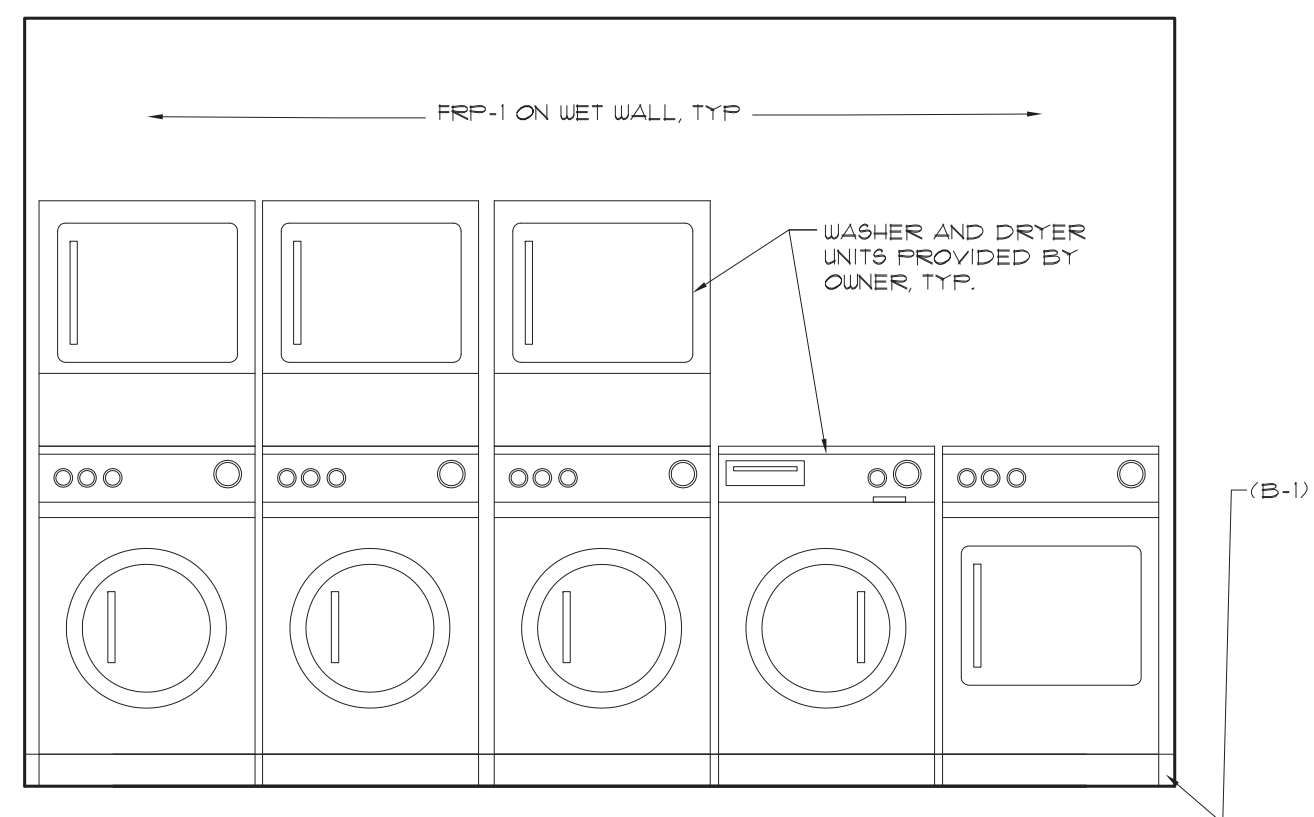
**ENLARGED MAIL ROOM (3)**  
BUILDING F



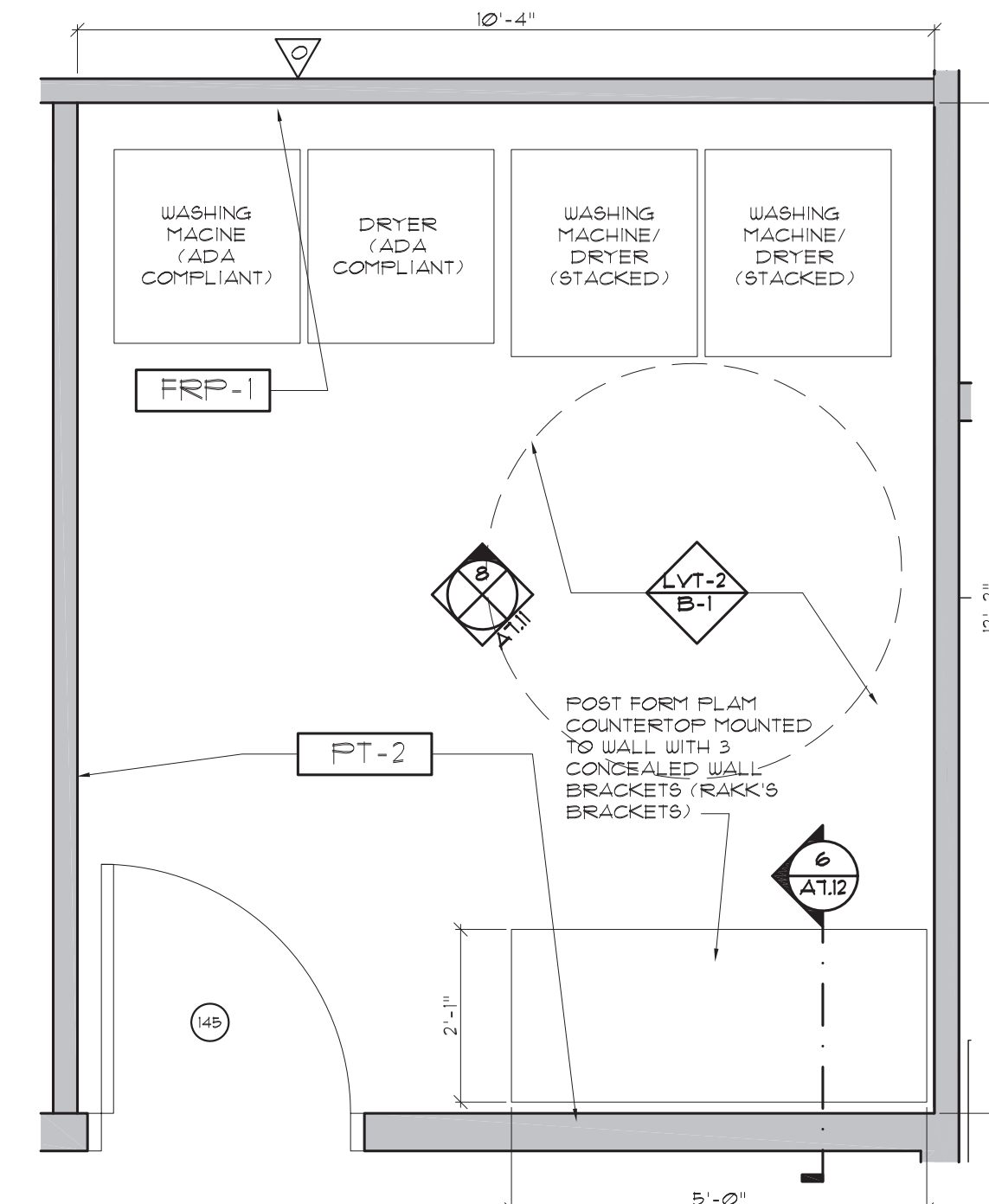
**MAIL ROOM ELEVATION (4)**  
BUILDING F



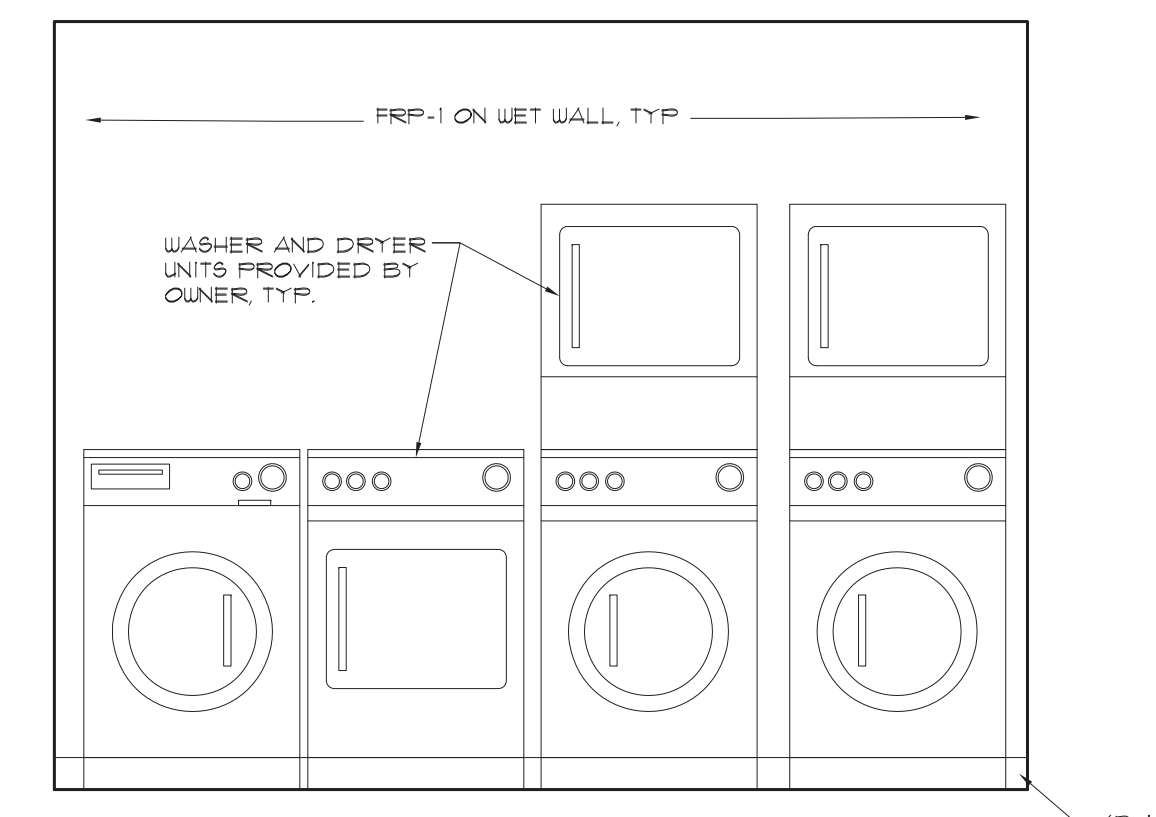
**ENLARGED LAUNDRY PLAN (5)**  
BUILDING E



**LAUNDRY ELEVATION (6)**  
BUILDING E



**ENLARGED LAUNDRY PLAN (7)**  
BUILDING F



**LAUNDRY ELEVATION (8)** 1/2" = 1'-0"  
BUILDING F

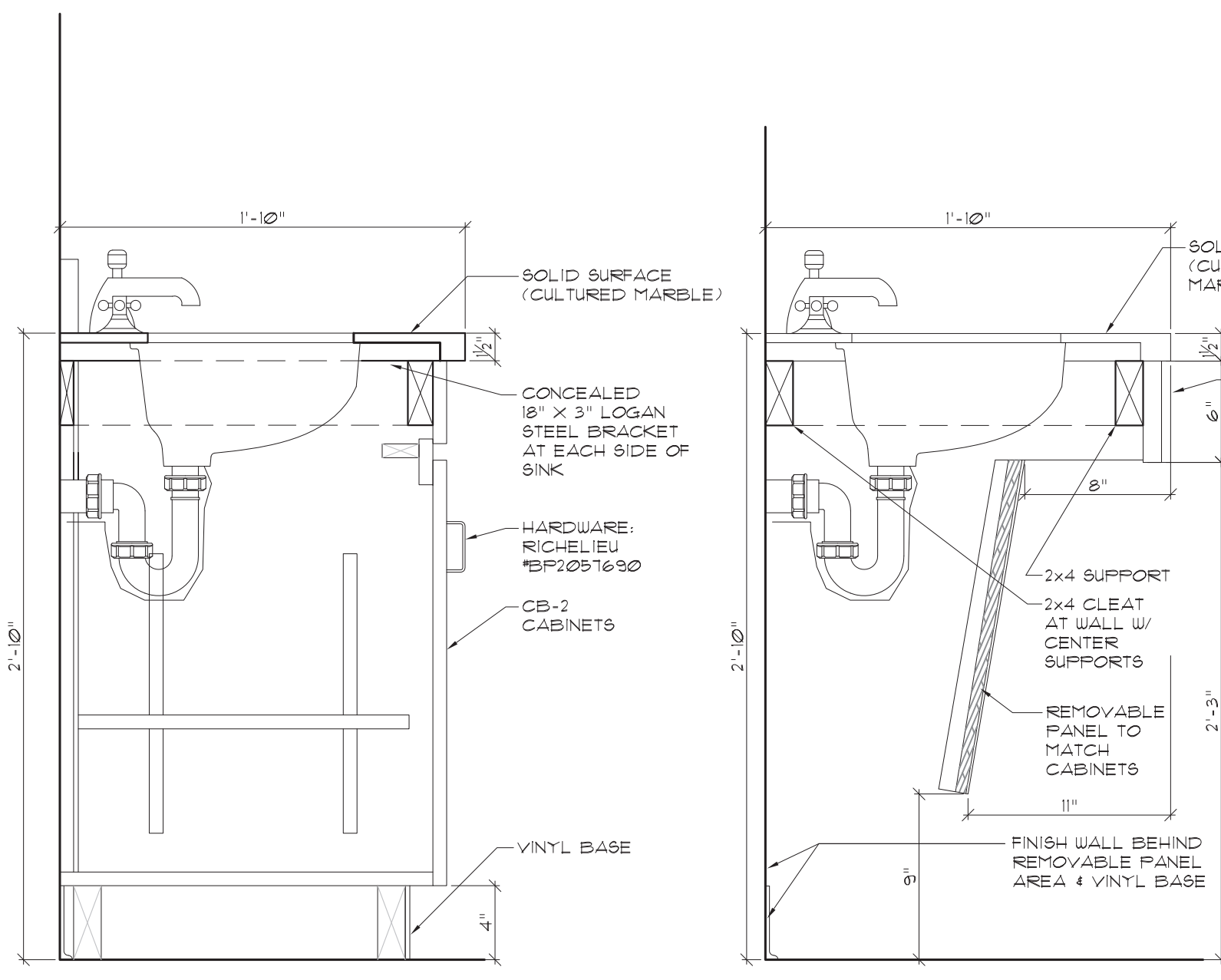
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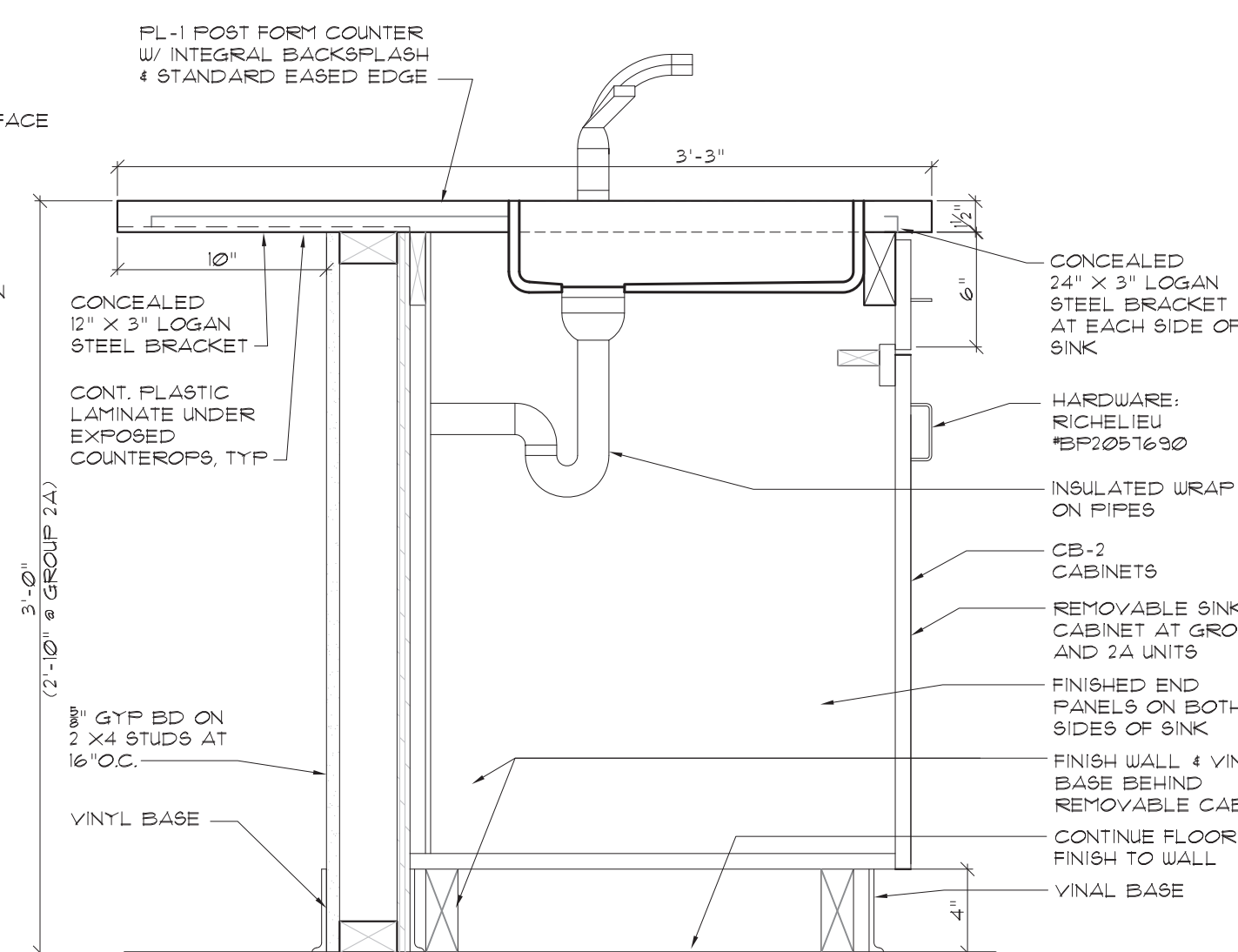
**SHEET CONTENTS:**  
Interior Elevations

PROJECT # 1420  
DATE: 9/22/2020  
REVISED DATE:  
REVISED: 02/16/2021

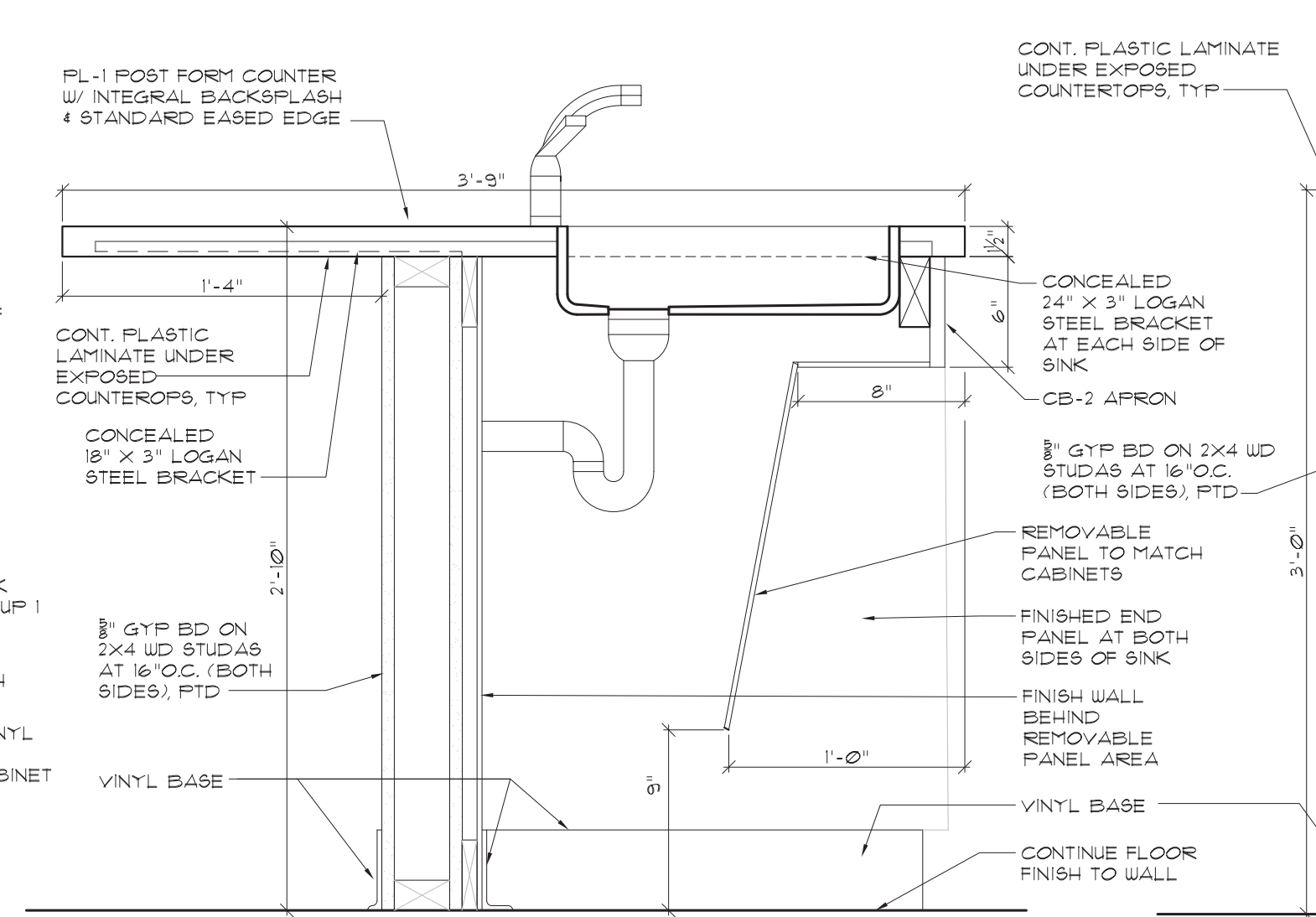




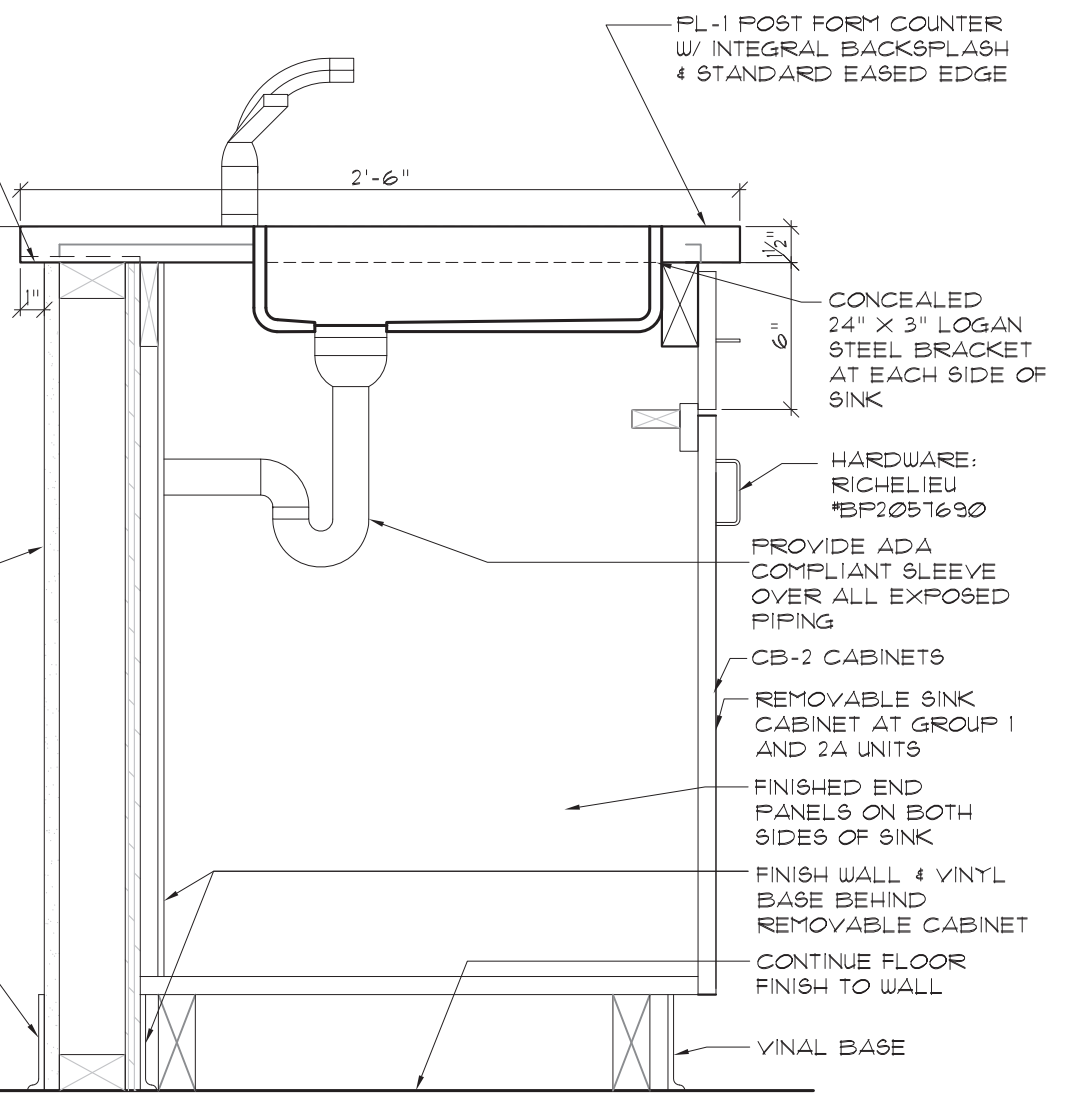
TYP. UNIT VANITY ① TYP. ADA UNIT VANITY ② 1 1/2" = 1'-0"  
GROUP 1 AND 2A



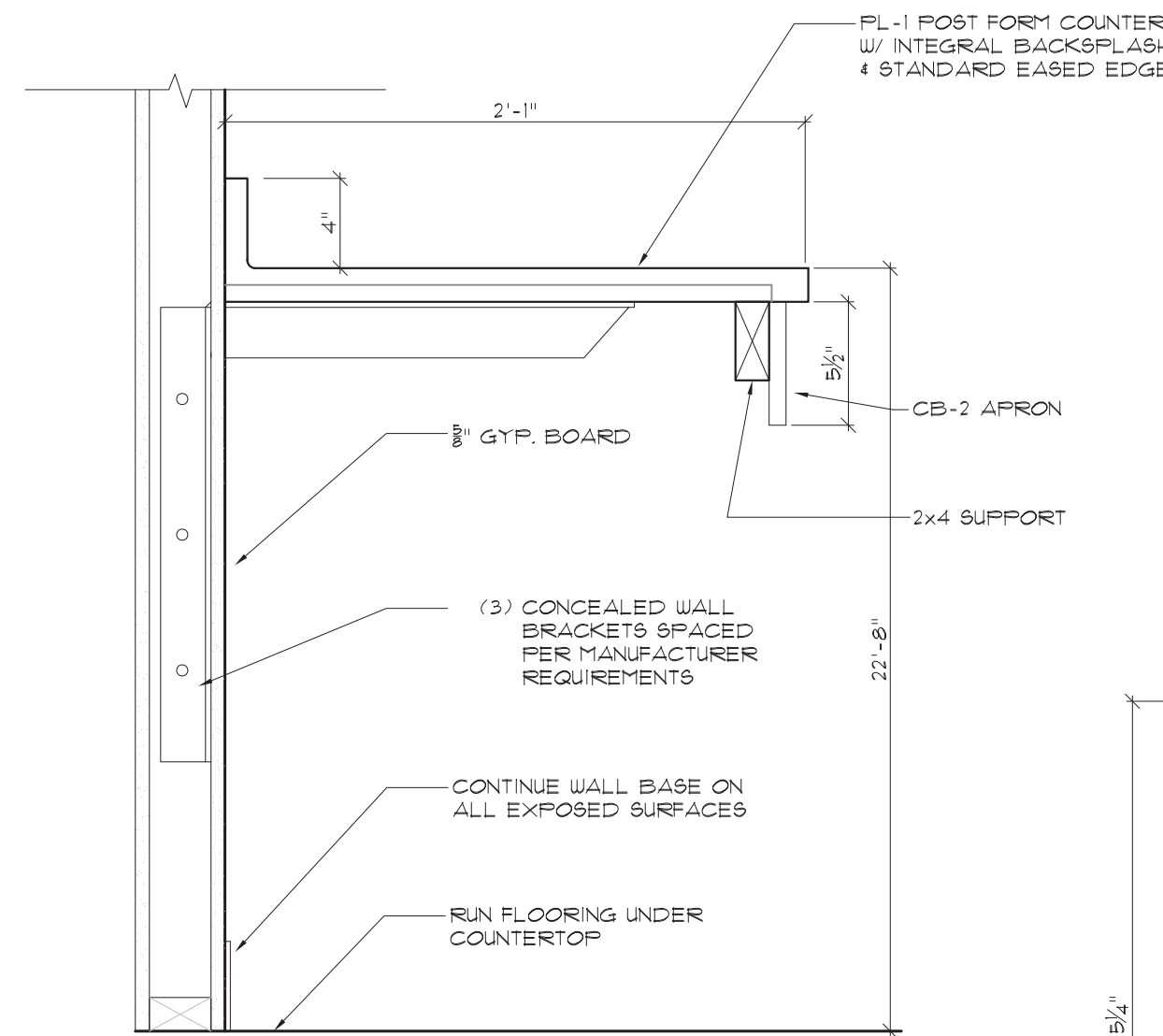
TYP. UNIT KITCHEN ③ 1 1/2" = 1'-0"  
GROUP 1 AND 2A



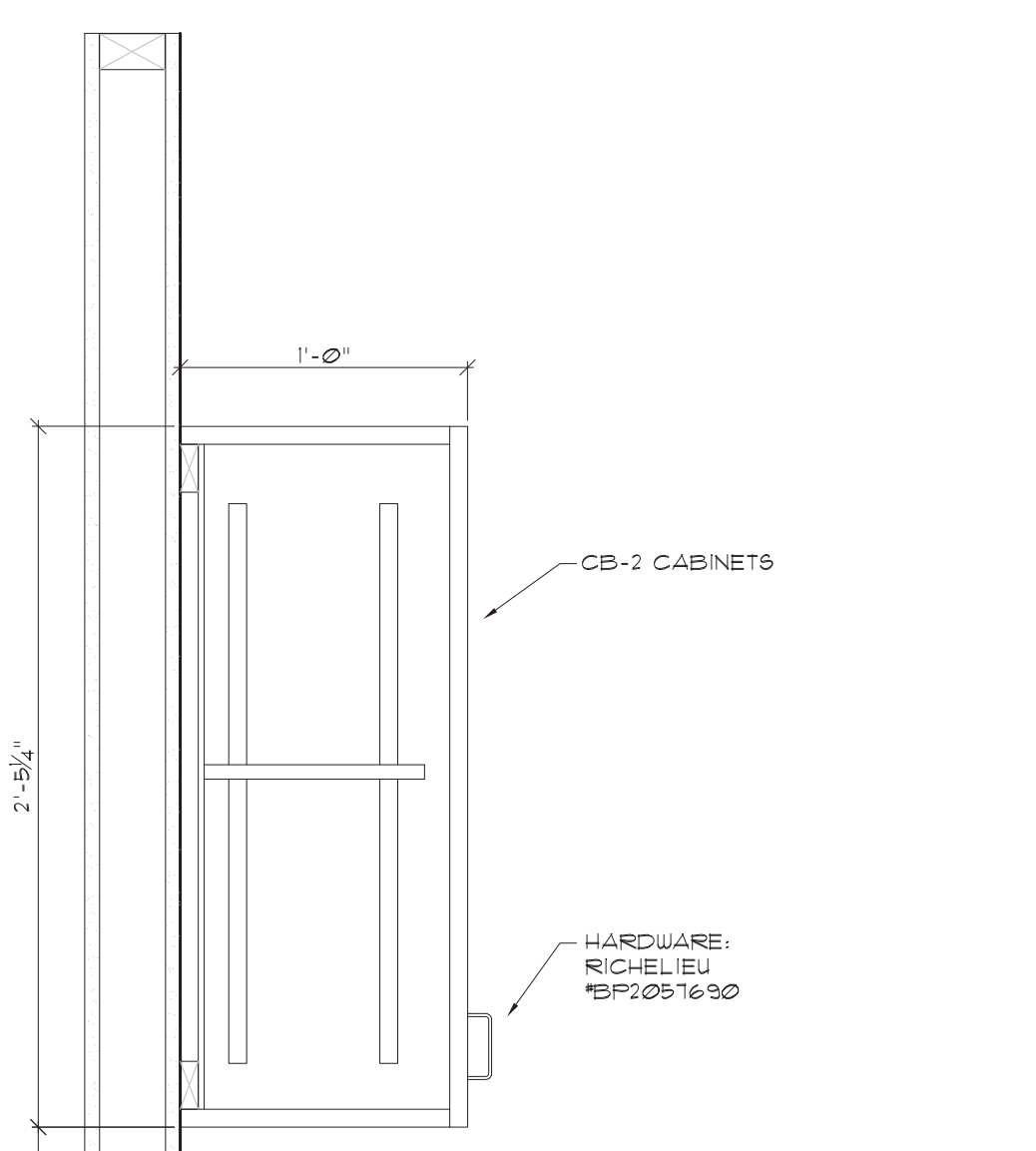
TYP. ADA UNIT KITCHEN ④ 1 1/2" = 1'-0"  
GROUP 1 AND 2A



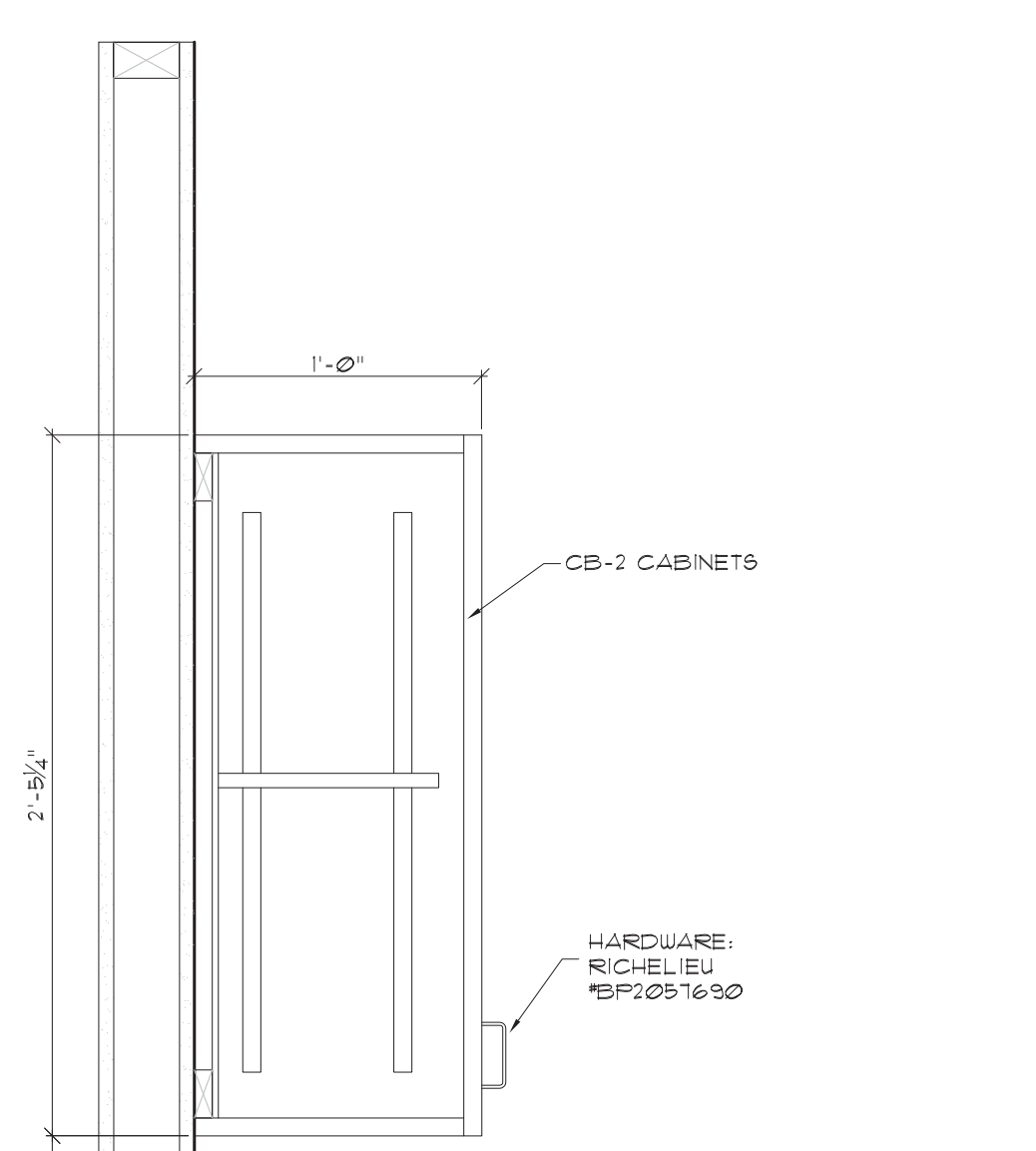
TYP. ADA UNIT KITCHEN ⑤ 1 1/2" = 1'-0"  
GROUP 1 AND 2A



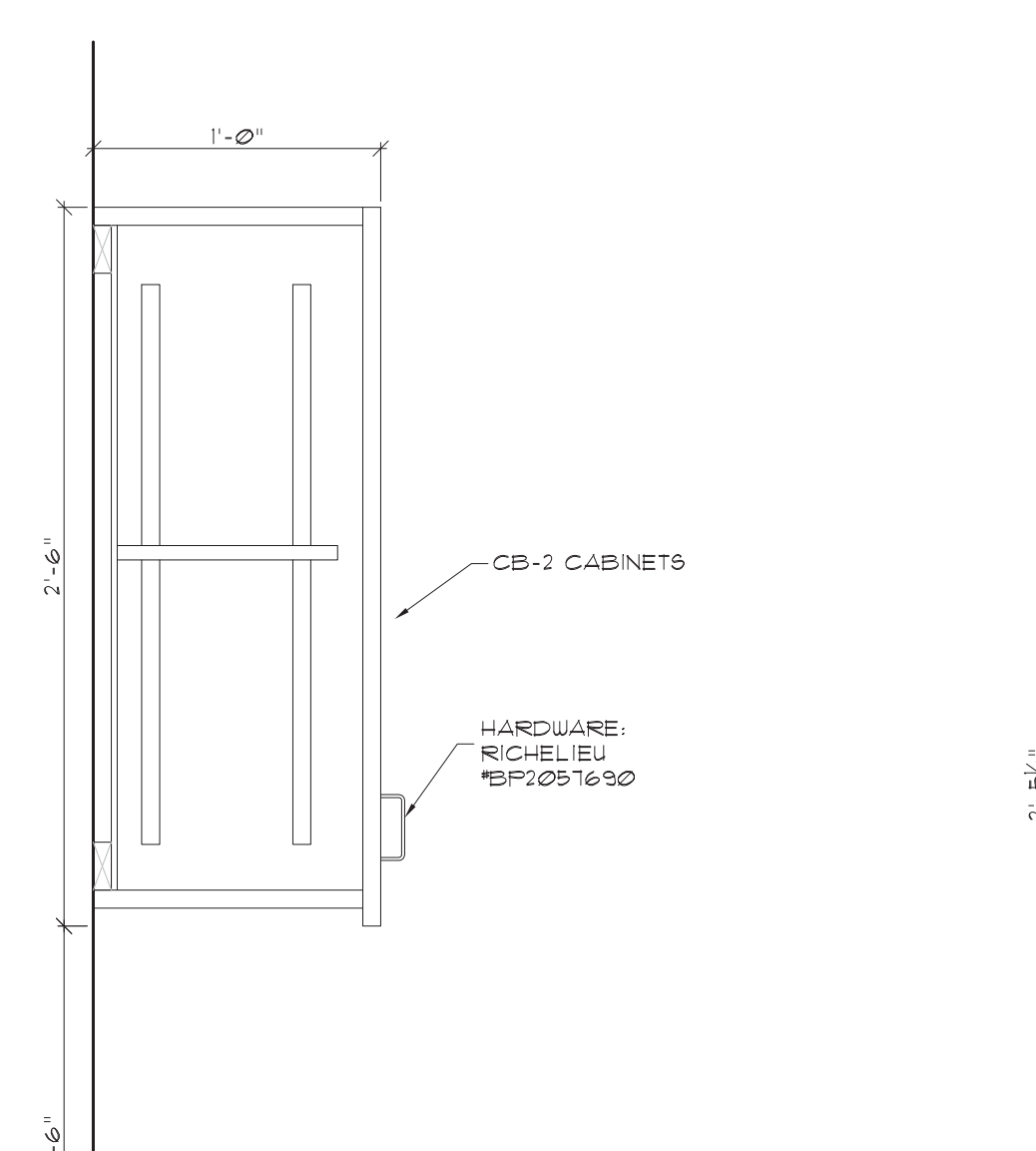
LAUNDRY RM COUNTER ⑥ 1 1/2" = 1'-0"  
ADA COMPLIANT



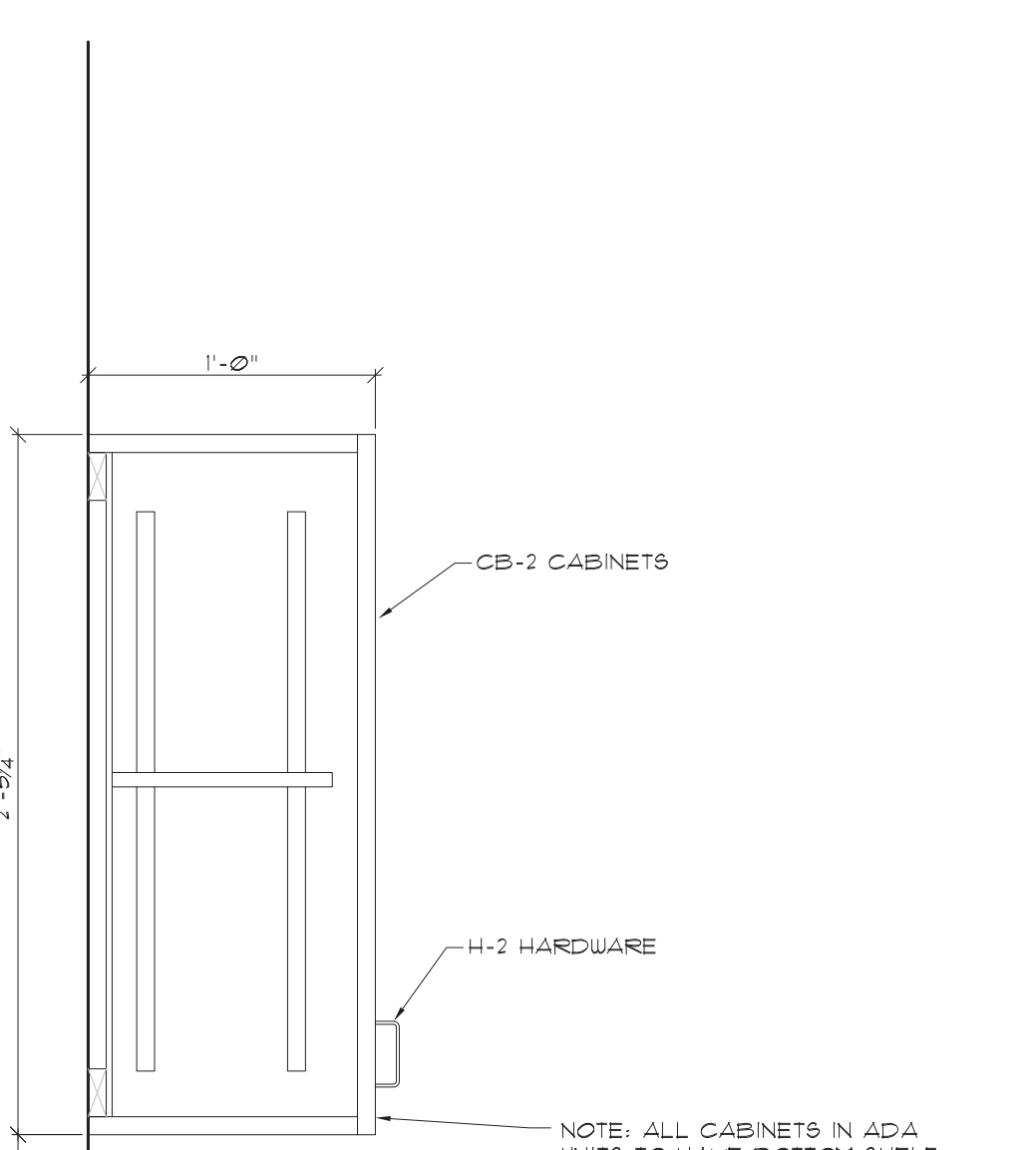
TYP. 2'-6" WORKSTATION ⑧ 1 1/2" = 1'-0"  
GROUP 2A AND ADA



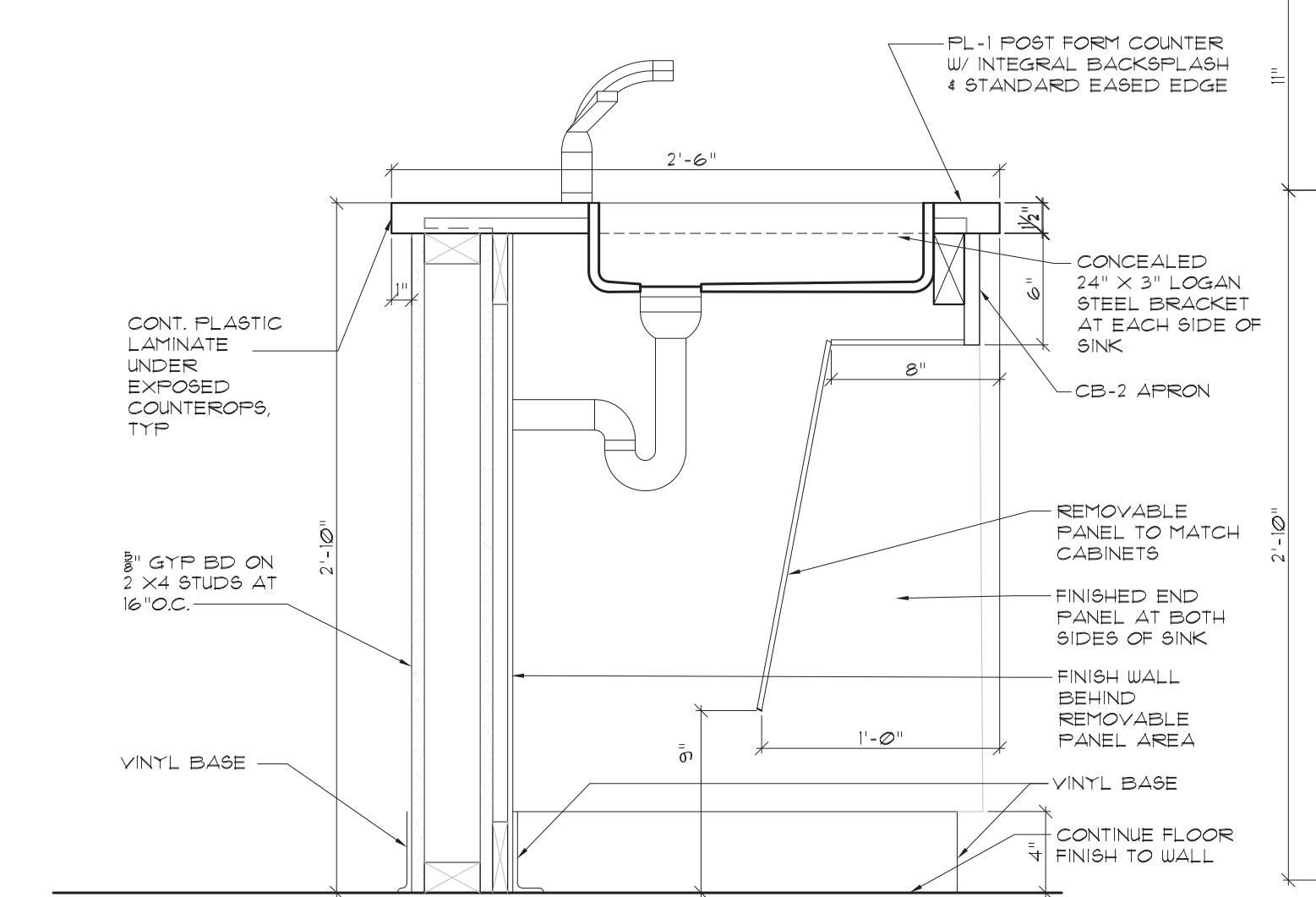
TYP. 5'-0" WORKSTATION ⑨ 1 1/2" = 1'-0"  
GROUP 2A



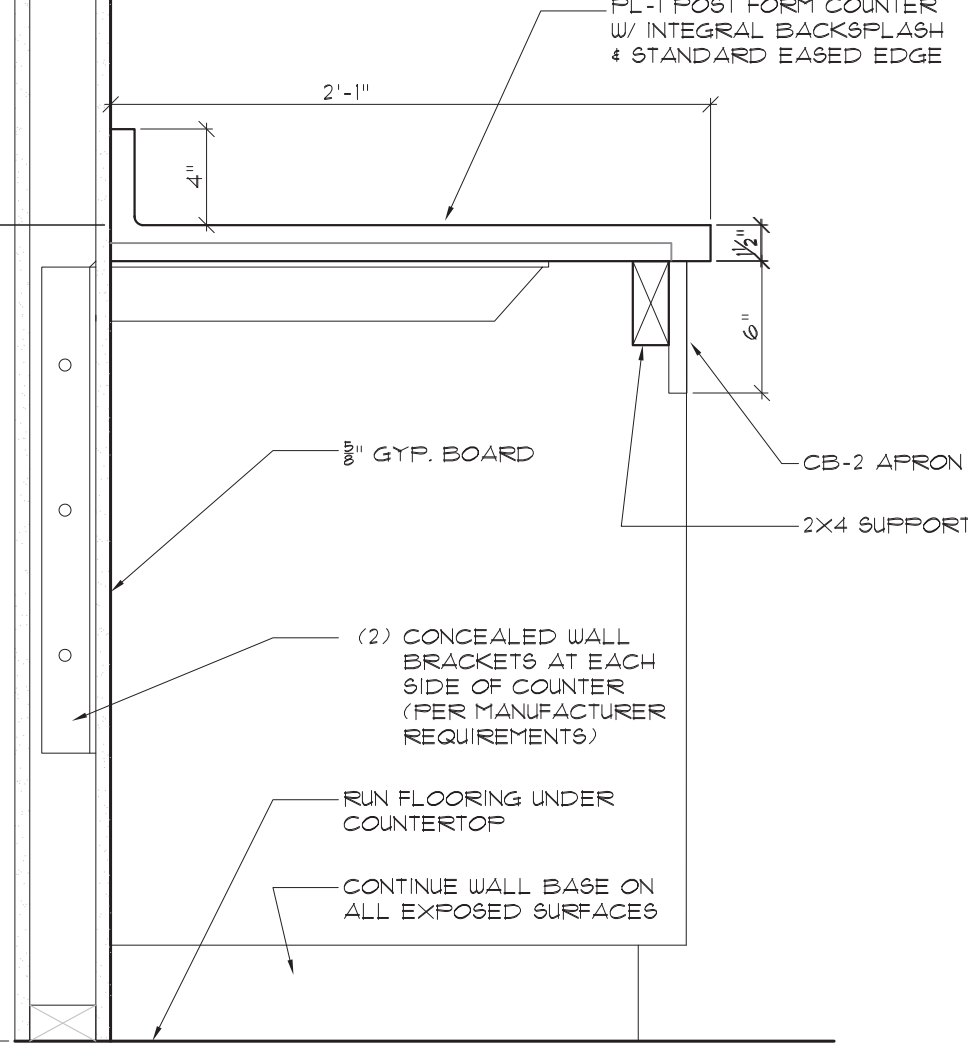
TYP. UNIT KITCHEN ⑩ 1 1/2" = 1'-0"



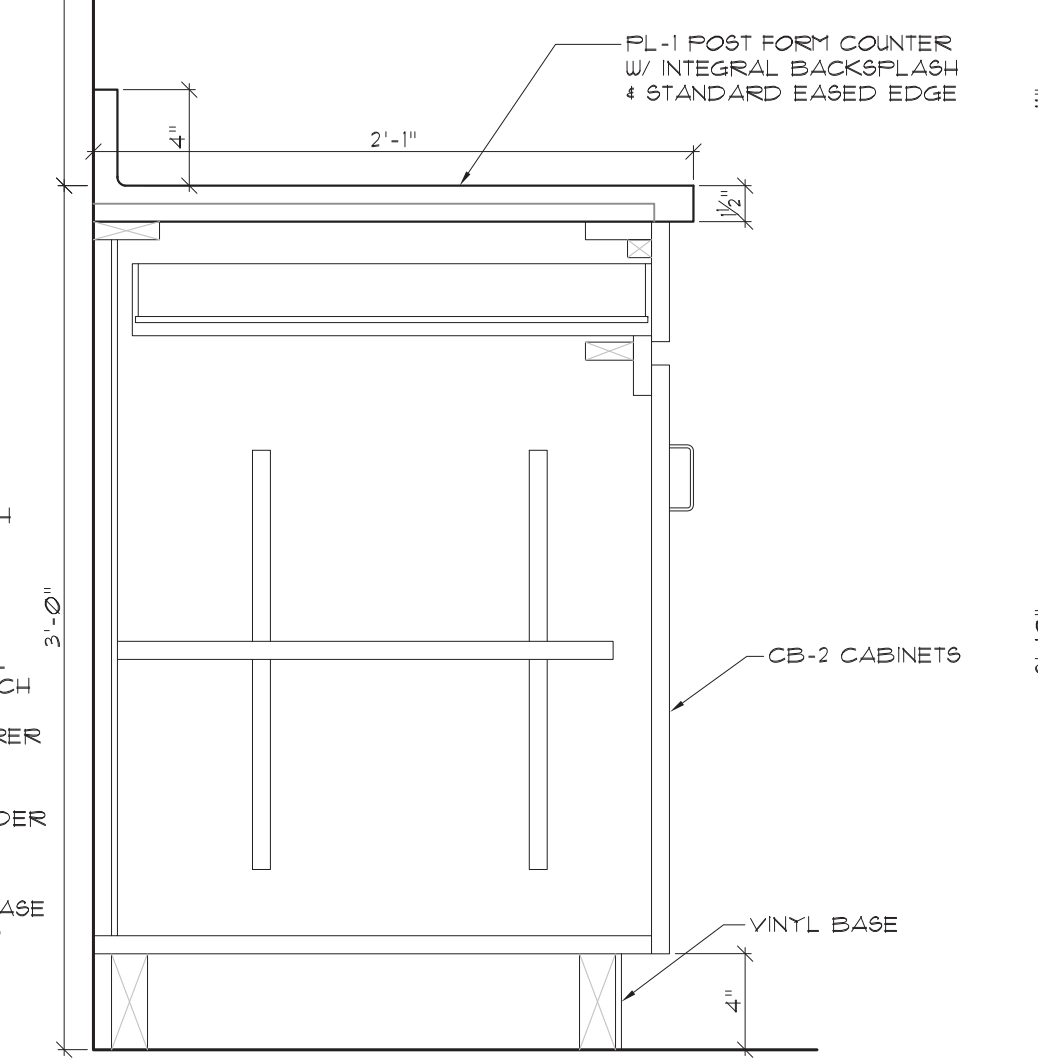
TYP. ADA UNIT KITCHEN ⑪ 1 1/2" = 1'-0"



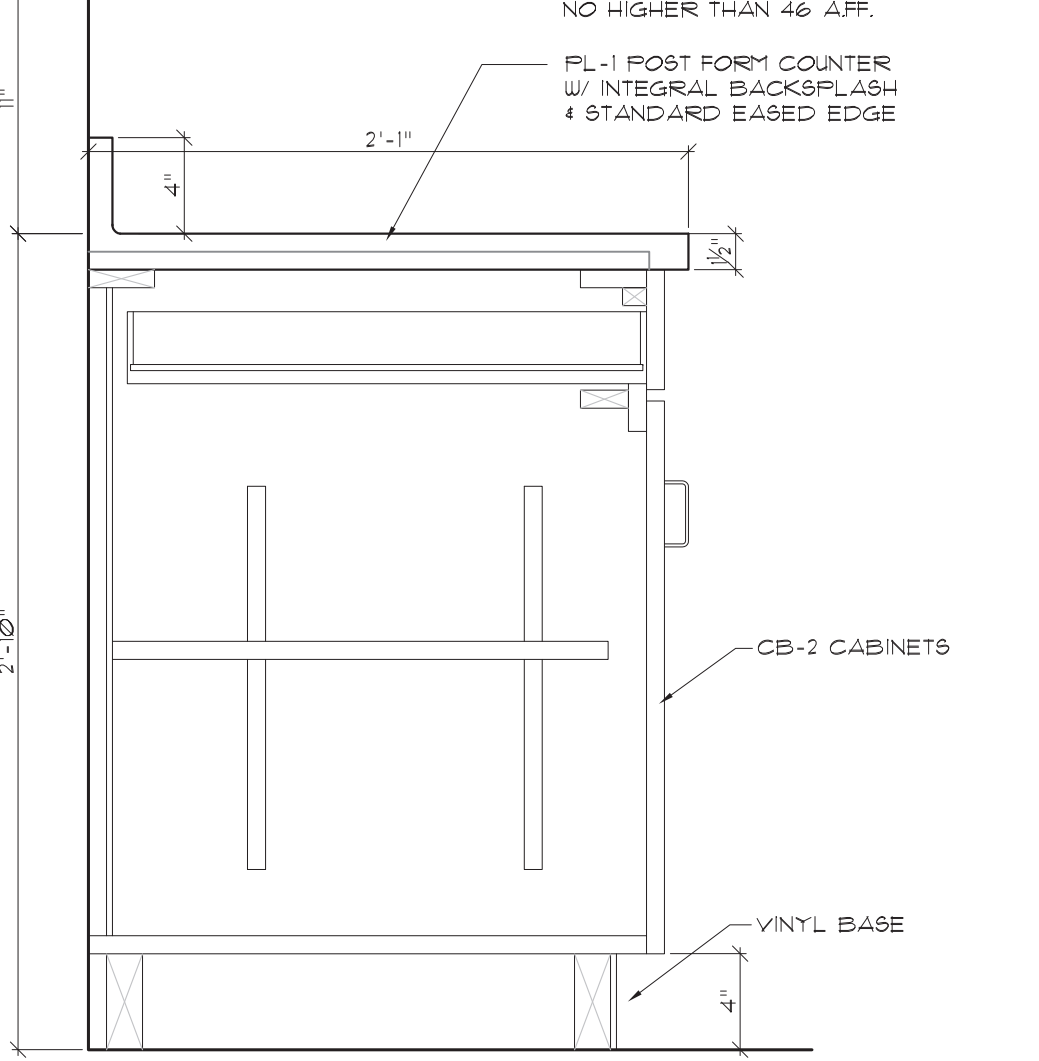
TYP. ADA UNIT KITCHEN ⑦ 1 1/2" = 1'-0"  
GROUP 2A AND ADA



TYP. 5'-0" WORKSTATION ⑨ 1 1/2" = 1'-0"  
GROUP 2A



TYP. UNIT KITCHEN ⑩ 1 1/2" = 1'-0"



TYP. ADA UNIT KITCHEN ⑪ 1 1/2" = 1'-0"

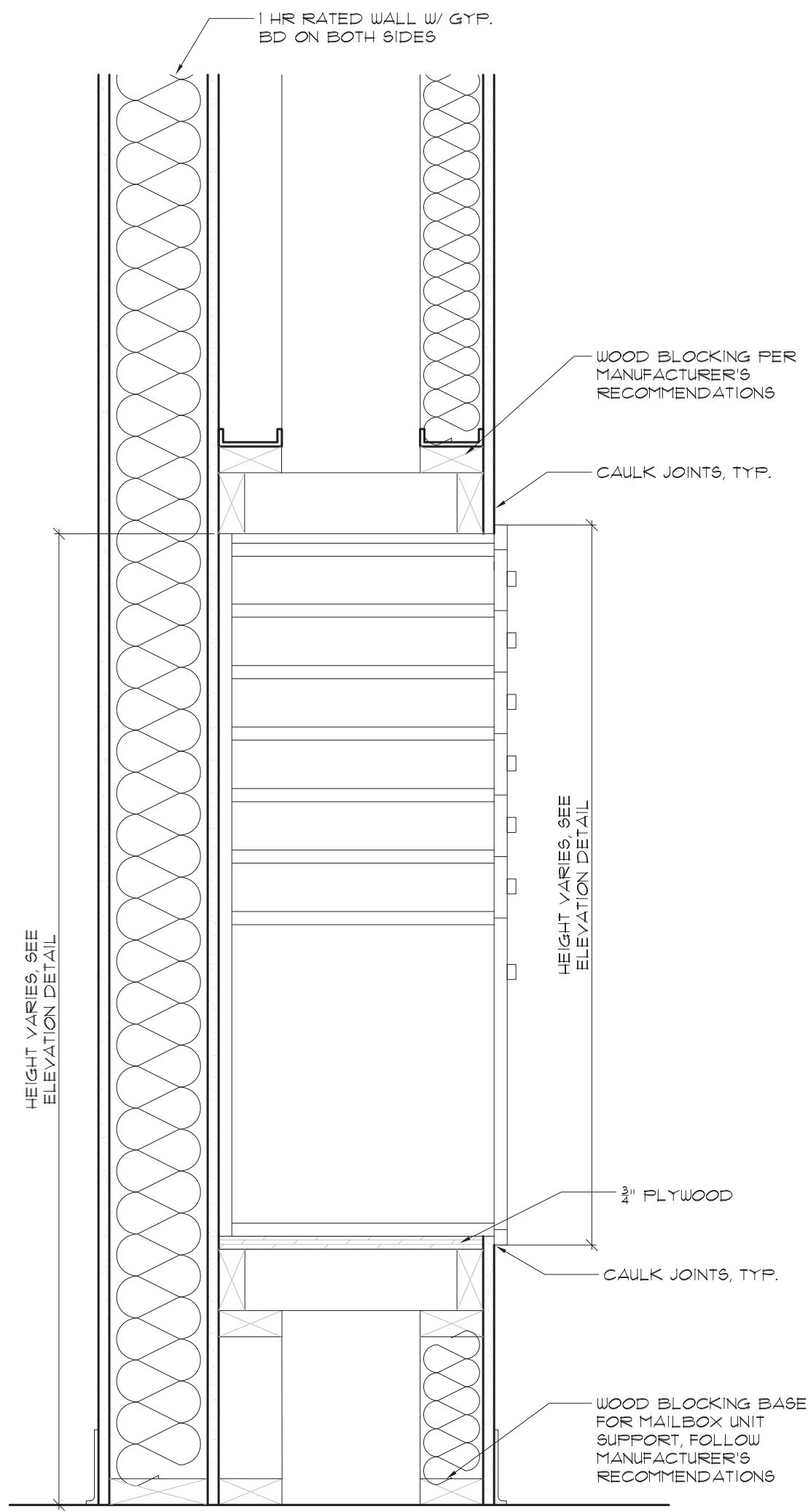


SHEET CONTENTS:  
Casework Details

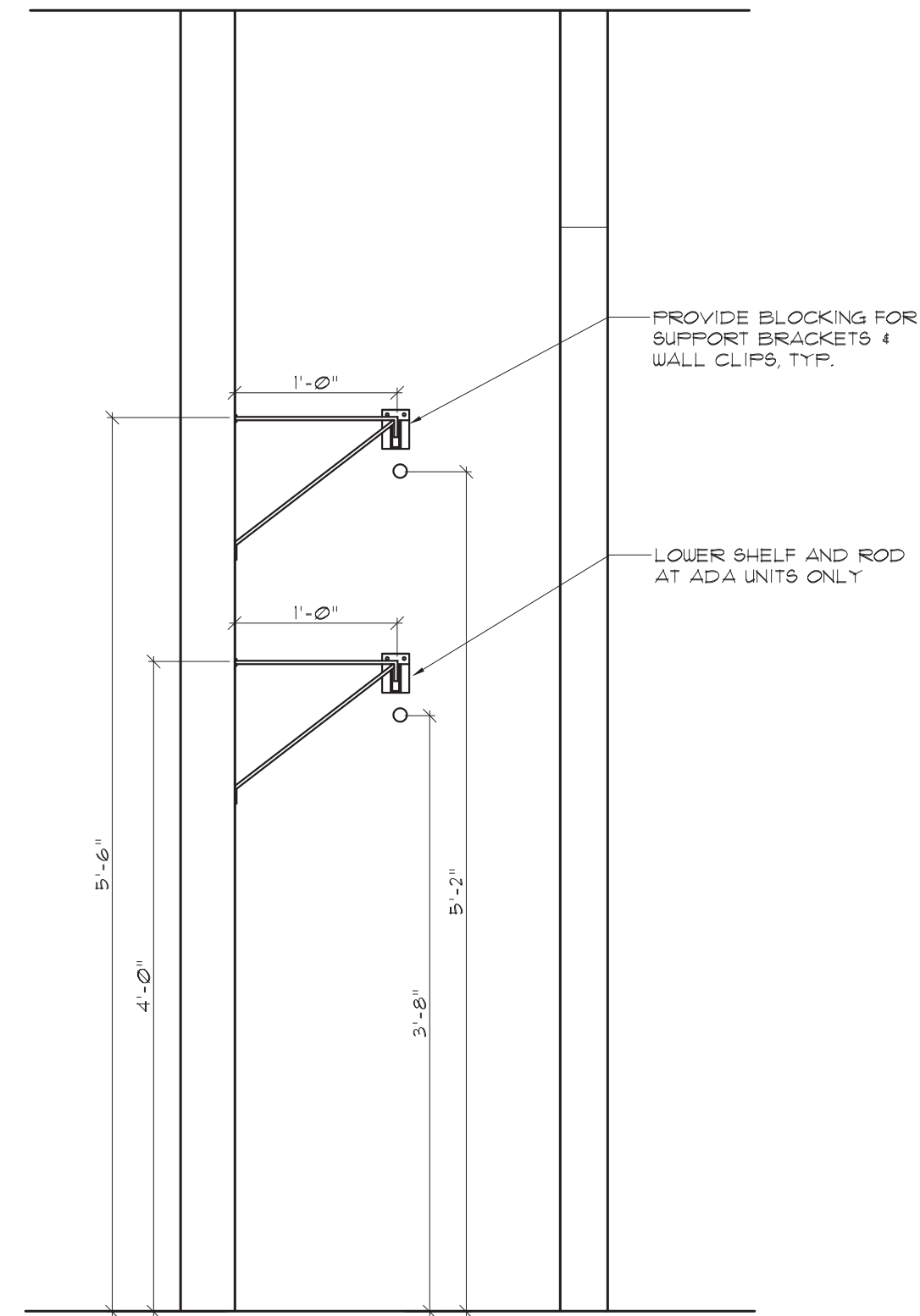
PROJECT # 1420  
DATE: 9/22/2020  
REVISED DATE:  
REVISED: 02/16/2021

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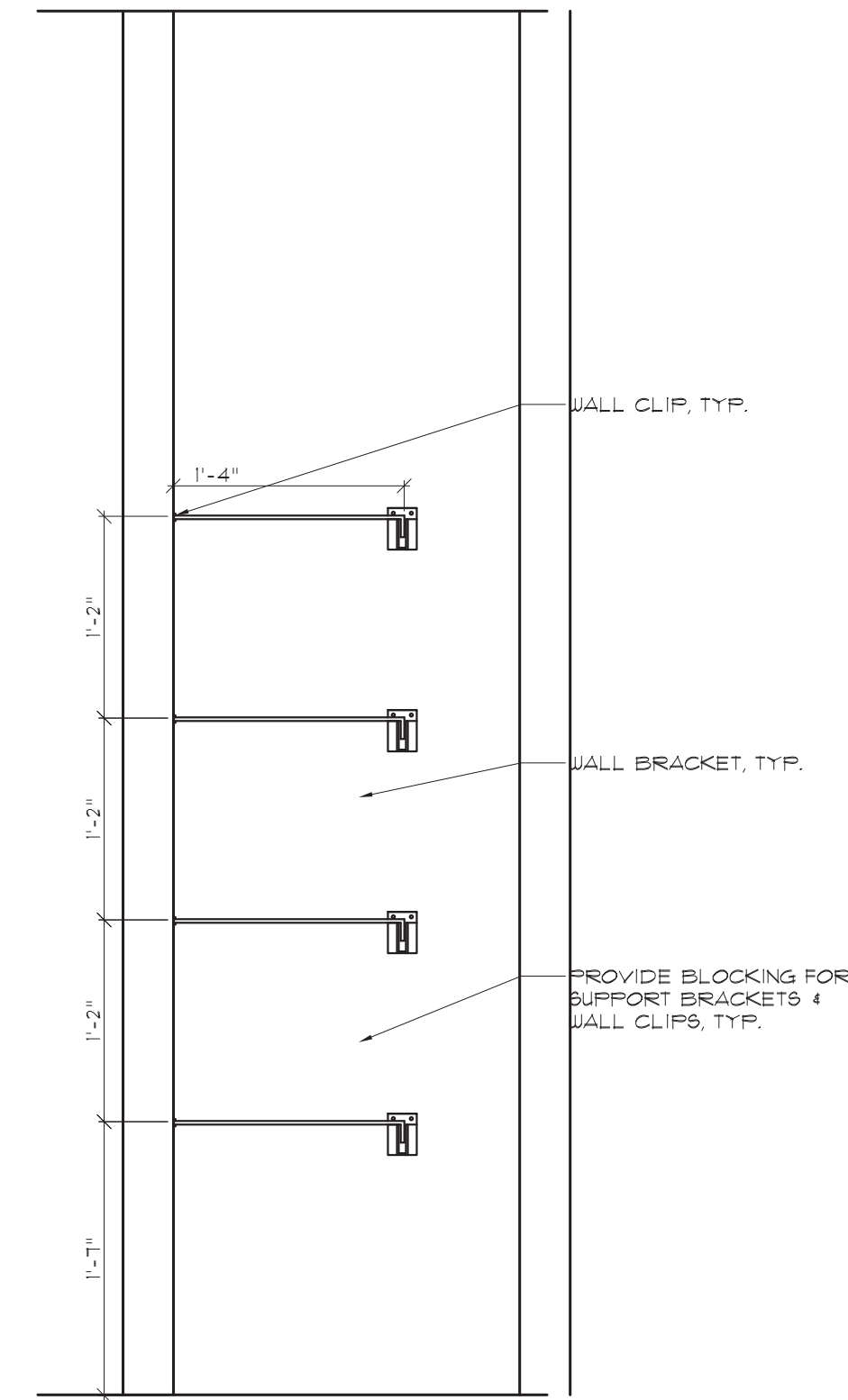
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MAILBOX DETAIL ① 1/2" = 1'-0"



TYP. CLOSET DETAIL ② 1" = 1'-0"



TYP. LINEN DETAIL ③ 1" = 1'-0"

CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

Proposed Design for:  
**Woodland Cove**  
**Phase I**  
Buildings E, F, & COMMUNITY BUILDING  
3102 Cranberry Highway  
Wareham, MA 02532



SHEET CONTENTS:  
Details

PROJECT # 1420

DATE: 9/22/2020  
REVISED DATE:  
REVIS: 02/16/2021

**A7.13**

**Ed Wojcik**  
*architect, ltd*  
One Richmond Square  
Providence, RI 02906  
401-861-7139

DOOR SCHEDULE - BUILDING E

Table with columns: KEY, UNIT, LOCATION, DOOR TYPE, SIZE (WxH), RATING, FRAME TYPE, RATING, HARDWARE, REMARKS. Rows include various door types like ENTRY, BALCONY, COAT CLOSET, BEDROOM, BATHROOM, LINEN CLOSET, etc.

DOOR SCHEDULE - BUILDING E

Table with columns: KEY, UNIT, LOCATION, DOOR TYPE, SIZE (WxH), RATING, FRAME TYPE, RATING, HARDWARE, REMARKS. Rows include various door types like ENTRY, BALCONY, COAT CLOSET, BEDROOM, BATHROOM, LINEN CLOSET, etc.

DOOR SCHEDULE - BUILDING E

Table with columns: KEY, UNIT, LOCATION, DOOR TYPE, SIZE (WxH), RATING, FRAME TYPE, RATING, HARDWARE, REMARKS. Rows include various door types like ENTRY, BALCONY, COAT CLOSET, BEDROOM, BATHROOM, LINEN CLOSET, etc.

Ed Wojcik architect, ltd logo and contact information: One Richmond Square, Providence, RI 02906, 401-861-7139

Proposed Design for: Woodland Cove Phase I Buildings E, F, & COMMUNITY BUILDING 3102 Cranberry Highway Wareham, MA 02552

SHEET CONTENTS: Building E; Door Schedule

PROJECT # 1420 DATE: 9/22/2020 REVISED DATE: REVISED: 02/16/2021

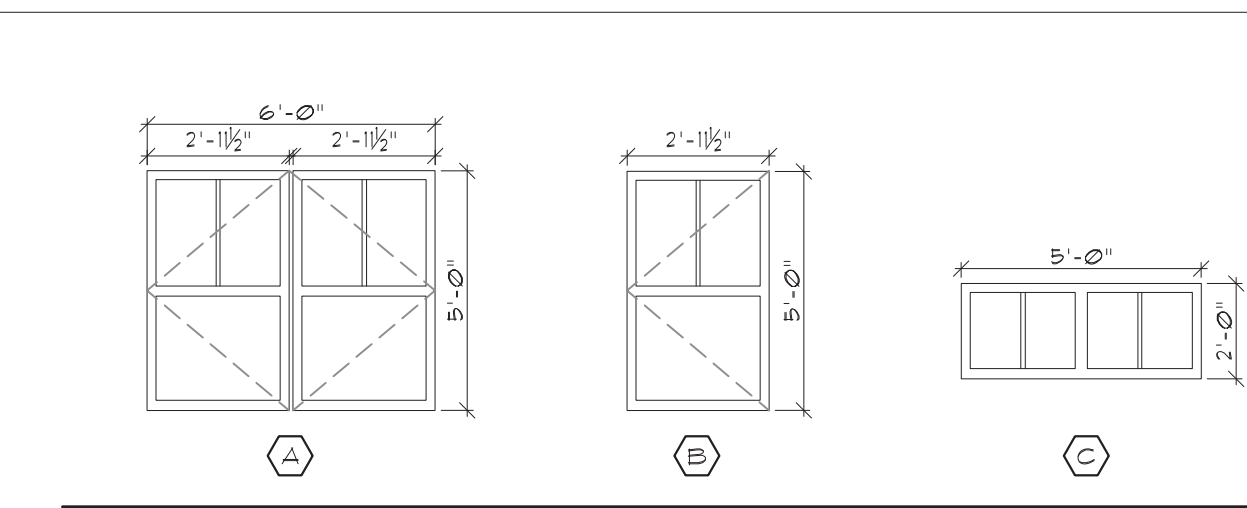
A8.0

CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

DOOR SCHEDULE - BUILDING E								
KEY	UNIT	LOCATION	DOOR TYPE	SIZE (WxH)	RATING	FRAME TYPE	HARDWARE	REMARKS
<b>FOURTH FLOOR</b>								
400	-	STAIR 2	ST-3	3'-0" X 1'-0"	60 MIN	2	60 MIN	FIRE EXIT HARDWARE W/LEVER LOCKSET, CLOSER, ALUM THRESHOLD
401	UNIT 28	UNIT ENTRY	UD-1	3'-0" X 6'-8"	45 MIN	2	45 MIN	ENTRY LEVER LOCKSET W/ DEADBOLT 4 CLOSER 4 DOOR VIEWER
402	-	NOT USED						
403	UNIT 28	BALCONY ENTRY	YL-1	6'-0" X 6'-8"				PRIVACY LEVER LOCKSET, WEATHERSTRIPING THRESHOLD
404	UNIT 28	COAT CLOSET	UD-2	2'-6" X 6'-8"		1		PASSAGE LEVER LOCKSET
405	UNIT 28	BEDROOM 2	UD-2	3'-0" X 6'-8"		1		PASSAGE LEVER LOCKSET
406	UNIT 28	BEDROOM 2 CLOSET	UD-2	2'-6" X 6'-8"		1		PASSAGE LEVER LOCKSET
407	UNIT 28	BEDROOM 1	UD-2	3'-0" X 6'-8"		1		PRIVACY LEVER LOCKSET
408	UNIT 28	BEDROOM 1 CLOSET	UD-3	5'-0" X 6'-8" (PAIR)		1		PASSAGE LEVER LOCKSET
409	UNIT 28	BATHROOM	UD-2	3'-0" X 6'-8"		1		PRIVACY LEVER LOCKSET
410	UNIT 28	LINEN CLOSET	UD-2	2'-6" X 6'-8"		1		PASSAGE LEVER LOCKSET
411	UNIT 28	BATHROOM	UD-2	3'-0" X 6'-8"		1		PRIVACY LEVER LOCKSET
412	UNIT 28	UNIT ENTRY	UD-1	3'-0" X 6'-8"	45 MIN	2	45 MIN	ENTRY LEVER LOCKSET W/ DEADBOLT 4 CLOSER 4 DOOR VIEWER
413	-	NOT USED						
414	UNIT 29	BALCONY ENTRY	YL-1	6'-0" X 6'-8"				PRIVACY LEVER LOCKSET, WEATHERSTRIPING THRESHOLD
415	UNIT 29	BEDROOM 1	UD-2	3'-0" X 6'-8"		1		PRIVACY LEVER LOCKSET
416	UNIT 29	BEDROOM 1 CLOSET	UD-3	5'-0" X 6'-8" (PAIR)		1		PASSAGE LEVER LOCKSET
417	UNIT 29	BATHROOM	UD-2	3'-0" X 6'-8"		1		PRIVACY LEVER LOCKSET
418	UNIT 29	LINEN CLOSET	UD-2	2'-6" X 6'-8"		1		PASSAGE LEVER LOCKSET
419	UNIT 29	BATHROOM	UD-2	3'-0" X 6'-8"		1		PRIVACY LEVER LOCKSET
420	UNIT 29	COAT CLOSET	UD-3	4'-0" X 6'-8" (PAIR)		1		PASSAGE LEVER LOCKSET
421	UNIT 29	BEDROOM 2	UD-2	3'-0" X 6'-8"		1		PRIVACY LEVER LOCKSET
422	UNIT 29	BEDROOM 2 CLOSET	UD-2	2'-6" X 6'-8"		1		PASSAGE LEVER LOCKSET
423	UNIT 30	UNIT ENTRY	UD-1	3'-0" X 6'-8"	45 MIN	2	45 MIN	ENTRY LEVER LOCKSET W/ DEADBOLT 4 CLOSER 4 DOOR VIEWER
424	-	NOT USED						
425	UNIT 30	BALCONY ENTRY	YL-1	6'-0" X 6'-8"				PRIVACY LEVER LOCKSET, WEATHERSTRIPING THRESHOLD
426	UNIT 30	BEDROOM 1	UD-2	3'-0" X 6'-8"		1		PRIVACY LEVER LOCKSET
427	UNIT 30	BEDROOM 1 CLOSET	UD-3	5'-0" X 6'-8" (PAIR)		1		PASSAGE LEVER LOCKSET
428	UNIT 30	BATHROOM	UD-2	3'-0" X 6'-8"		1		PRIVACY LEVER LOCKSET
429	UNIT 30	BATHROOM	UD-2	3'-0" X 6'-8"		1		PRIVACY LEVER LOCKSET
430	UNIT 30	COAT CLOSET	UD-3	4'-0" X 6'-8" (PAIR)		1		PASSAGE LEVER LOCKSET
431	UNIT 30	BEDROOM 2	UD-2	3'-0" X 6'-8"		1		PRIVACY LEVER LOCKSET
432	UNIT 30	BEDROOM 2 CLOSET	UD-2	2'-6" X 6'-8"		1		PASSAGE LEVER LOCKSET
433	UNIT 31	UNIT ENTRY	UD-1	3'-0" X 6'-8"	45 MIN	2	45 MIN	ENTRY LEVER LOCKSET W/ DEADBOLT 4 CLOSER 4 DOOR VIEWER
434	UNIT 31	BEDROOM 1	UD-2	3'-0" X 6'-8"		1		PRIVACY LEVER LOCKSET
435	UNIT 31	BEDROOM 1 CLOSET	UD-3	5'-0" X 6'-8" (PAIR)		1		PASSAGE LEVER LOCKSET
436	UNIT 31	BATHROOM	UD-2	3'-0" X 6'-8"		1		PRIVACY LEVER LOCKSET
437	UNIT 31	COAT CLOSET	UD-3	5'-0" X 6'-8" (PAIR)		1		PASSAGE LEVER LOCKSET
438	UNIT 31	BEDROOM 2	UD-2	3'-0" X 6'-8"		1		PRIVACY LEVER LOCKSET
439	UNIT 31	BEDROOM 2 CLOSET	UD-2	2'-6" X 6'-8"		1		PASSAGE LEVER LOCKSET
440	UNIT 31	BEDROOM 3	UD-2	3'-0" X 6'-8"		1		PRIVACY LEVER LOCKSET
441	UNIT 31	BEDROOM 3 CLOSET	UD-2	2'-6" X 6'-8"		1		PASSAGE LEVER LOCKSET
442	UNIT 31	MECHANICAL ROOM	UD-2	2'-0" X 6'-8"		1		STORE ROOM LEVER LOCKSET
443	UNIT 31	BATHROOM	UD-2	3'-0" X 6'-8"		1		PRIVACY LEVER LOCKSET
444	-	CUSTODIAL	ST-3	3'-0" X 1'-0"	45 MIN	2	45 MIN	STORAGE LEVER LOCKSET
445	UNIT 32	UNIT ENTRY	UD-1	3'-0" X 6'-8"	45 MIN	2	45 MIN	ENTRY LEVER LOCKSET W/ DEADBOLT 4 CLOSER 4 DOOR VIEWER
446	-	NOT USED						
447	UNIT 32	BALCONY ENTRY	YL-1	6'-0" X 6'-8"				PRIVACY LEVER LOCKSET, WEATHERSTRIPING THRESHOLD
448	UNIT 32	BEDROOM 1	UD-2	3'-0" X 6'-8"		1		PRIVACY LEVER LOCKSET
449	UNIT 32	BEDROOM 1 CLOSET	UD-3	5'-0" X 6'-8" (PAIR)		1		PASSAGE LEVER LOCKSET
450	UNIT 32	BATHROOM	UD-2	3'-0" X 6'-8"		1		PRIVACY LEVER LOCKSET
451	UNIT 32	BATHROOM	UD-2	3'-0" X 6'-8"		1		PRIVACY LEVER LOCKSET
452	UNIT 32	COAT CLOSET	UD-3	4'-0" X 6'-8" (PAIR)		1		PASSAGE LEVER LOCKSET
453	UNIT 32	BEDROOM 2	UD-2	3'-0" X 6'-8"		1		PRIVACY LEVER LOCKSET
454	UNIT 32	BEDROOM 2 CLOSET	UD-2	2'-6" X 6'-8"		1		PASSAGE LEVER LOCKSET
455	UNIT 33	UNIT ENTRY	UD-1	3'-0" X 6'-8"	45 MIN	2	45 MIN	ENTRY LEVER LOCKSET W/ DEADBOLT 4 CLOSER 4 DOOR VIEWER
456	UNIT 33	BATHROOM	UD-2	3'-0" X 6'-8"		1		PRIVACY LEVER LOCKSET
457	UNIT 33	COAT CLOSET	UD-3	4'-0" X 6'-8" (PAIR)		1		PASSAGE LEVER LOCKSET
458	UNIT 33	BEDROOM 2	UD-2	3'-0" X 6'-8"		1		PRIVACY LEVER LOCKSET
459	UNIT 33	BEDROOM 2 CLOSET	UD-2	2'-6" X 6'-8"		1		PASSAGE LEVER LOCKSET
460	-	NOT USED						
461	UNIT 33	BEDROOM 1	UD-2	3'-0" X 6'-8"		1		PRIVACY LEVER LOCKSET
462	UNIT 33	BEDROOM 1 CLOSET	UD-3	5'-0" X 6'-8" (PAIR)		1		PASSAGE LEVER LOCKSET
463	UNIT 33	BATHROOM	UD-2	3'-0" X 6'-8"		1		PRIVACY LEVER LOCKSET
464	UNIT 34	UNIT ENTRY	UD-1	3'-0" X 6'-8"	45 MIN	2	45 MIN	ENTRY LEVER LOCKSET W/ DEADBOLT 4 CLOSER 4 DOOR VIEWER
465	UNIT 34	BATHROOM	UD-2	3'-0" X 6'-8"		1		PRIVACY LEVER LOCKSET
466	UNIT 34	COAT CLOSET	UD-2	2'-6" X 6'-8"		1		PASSAGE LEVER LOCKSET
467	-	NOT USED						
468	UNIT 34	BALCONY ENTRY	YL-1	6'-0" X 6'-8"				PRIVACY LEVER LOCKSET, WEATHERSTRIPING THRESHOLD
469	UNIT 34	BEDROOM	UD-2	3'-0" X 6'-8"		1		PRIVACY LEVER LOCKSET
470	UNIT 34	BEDROOM CLOSET	UD-2	3'-0" X 6'-8"		1		PASSAGE LEVER LOCKSET
471	-	ELEVATOR CONTROL ROOM	UD-2	3'-0" X 1'-0"		1		STORE ROOM LEVER LOCKSET
472	-	STAIR 1	ST-3	3'-0" X 1'-0"	90 MIN	2	90 MIN	FIRE EXIT HARDWARE W/LEVER LOCKSET, CLOSER, ALUM THRESHOLD
473	UNIT 35	UNIT ENTRY	UD-1	3'-0" X 6'-8"	45 MIN	2	45 MIN	ENTRY LEVER LOCKSET W/ DEADBOLT 4 CLOSER 4 DOOR VIEWER
474	-	NOT USED						
475	UNIT 35	BALCONY ENTRY	YL-1	6'-0" X 6'-8"				PRIVACY LEVER LOCKSET, WEATHERSTRIPING THRESHOLD
476	UNIT 35	COAT CLOSET	UD-2	2'-6" X 6'-8"		1		PASSAGE LEVER LOCKSET
477	UNIT 35	BATHROOM	UD-2	3'-0" X 6'-8"		1		PRIVACY LEVER LOCKSET
478	UNIT 35	BEDROOM 1	UD-2	3'-0" X 6'-8"		1		PRIVACY LEVER LOCKSET
479	UNIT 35	BEDROOM 1 CLOSET	UD-3	4'-0" X 6'-8" (PAIR)		1		PASSAGE LEVER LOCKSET
480	UNIT 35	BATHROOM	UD-2	3'-0" X 6'-8"		1		PRIVACY LEVER LOCKSET
481	UNIT 35	LINEN CLOSET	UD-2	2'-6" X 6'-8"		1		PASSAGE LEVER LOCKSET
482	UNIT 35	BEDROOM 2	UD-2	3'-0" X 6'-8"		1		PRIVACY LEVER LOCKSET
483	UNIT 35	BEDROOM 2 CLOSET	UD-2	2'-6" X 6'-8"		1		PASSAGE LEVER LOCKSET
484	UNIT 36	UNIT ENTRY	UD-1	3'-0" X 6'-8"	45 MIN	2	45 MIN	ENTRY LEVER LOCKSET W/ DEADBOLT 4 CLOSER 4 DOOR VIEWER
485	UNIT 36	BATHROOM	UD-2	3'-0" X 6'-8"		1		PRIVACY LEVER LOCKSET
486	UNIT 36	COAT CLOSET	UD-3	4'-0" X 6'-8" (PAIR)		1		PASSAGE LEVER LOCKSET
487	UNIT 36	BEDROOM 2	UD-2	3'-0" X 6'-8"		1		PRIVACY LEVER LOCKSET
488	UNIT 36	BEDROOM 2 CLOSET	UD-2	2'-6" X 6'-8"		1		PASSAGE LEVER LOCKSET
489	-	NOT USED						
490	UNIT 36	BALCONY ENTRY	YL-1	6'-0" X 6'-8"				PRIVACY LEVER LOCKSET, WEATHERSTRIPING THRESHOLD
491	UNIT 36	BEDROOM 1	UD-2	3'-0" X 6'-8"		1		PRIVACY LEVER LOCKSET
492	UNIT 36	BEDROOM 1 CLOSET	UD-3	5'-0" X 6'-8" (PAIR)		1		PASSAGE LEVER LOCKSET
493	UNIT 36	BATHROOM	UD-2	3'-0" X 6'-8"		1		PRIVACY LEVER LOCKSET
494	UNIT 36	LINEN CLOSET	UD-2	2'-6" X 6'-8"		1		PASSAGE LEVER LOCKSET

DOOR SCHEDULE - BUILDING F								
KEY	UNIT/ ROOM	LOCATION	DOOR TYPE	SIZE (WxH)	RATING	FRAME TYPE	HARDWARE	REMARKS
<b>FIRST FLOOR</b>								
00	-	ENTRY STAIR 2 (EXTERIOR-INSULATED)	ST-1	3'-0" X 1'-0"	60 MIN	2	60 MIN	FIRE EXIT HARDWARE WITH LEVER LOCKSET (STORAGE FUNCTION), CLOSER, ALUM THRESHOLD, WEATHERSTRIPING
01	-	STAIR 2 - CORRIDOR 103	ST-3	3'-0" X 1'-0"	60 MIN	2	60 MIN	FIRE EXIT HARDWARE W/LEVER LOCKSET (ENTRY FUNCTION), CLOSER, ALUM THRESHOLD
02	UNIT 1	UNIT ENTRY	UD-1	3'-0" X 6'-8"	20 MIN	2	20 MIN	ENTRY LEVER LOCKSET W/ DEADBOLT 4 CLOSER 4 DOOR VIEWER
03	-	NOT USED						
04	UNIT 1	BALCONY ENTRY	YL-1	6'-0" X 6'-8"				PRIVACY LEVER LOCKSET, WEATHERSTRIPING THRESHOLD
05	UNIT 1	COAT CLOSET	UD-2	2'-6" X 6'-8"		1		PASSAGE LEVER LOCKSET
06	UNIT 1	BEDROOM 2	UD-2	3'-0" X 6'-8"		1		PRIVACY LEVER LOCKSET
07	UNIT 1	BEDROOM 2 CLOSET	UD-2	2'-6" X 6'-8"		1		PASSAGE LEVER LOCKSET
08	UNIT 1	BEDROOM 1	UD-2	3'-0" X 6'-8"		1		PRIVACY LEVER LOCKSET
09	UNIT 1	BEDROOM 1 CLOSET	UD-3	5'-0" X 6'-8" (PAIR)		1		PASSAGE LEVER LOCKSET
10	UNIT 1	BATHROOM	UD-2	3'-0" X 6'-8"		1		PRIVACY LEVER LOCKSET
11	UNIT 1	LINEN CLOSET	UD-2	2'-6" X 6'-8"		1		PASSAGE LEVER LOCKSET
12	UNIT 1	BATHROOM	UD-2	3'-0" X 6'-8"		1		PRIVACY LEVER LOCKSET
13	UNIT 2	UNIT ENTRY	UD-1	3'-0" X 6'-8"	20 MIN	2	20 MIN	ENTRY LEVER LOCKSET W/ DEADBOLT 4 CLOSER 4 DOOR VIEWER
14	-	NOT USED						
15	UNIT 2	BALCONY ENTRY	YL-1	6'-0" X 6'-8"				PRIVACY LEVER LOCKSET, WEATHERSTRIPING THRESHOLD
16	UNIT 2	BEDROOM 1	UD-2	3'-0" X 6'-8"		1		PRIVACY LEVER LOCKSET
17	UNIT 2	BEDROOM 1 CLOSET	UD-3	5'-0" X 6'-8" (PAIR)		1		PASSAGE LEVER LOCKSET
18	UNIT 2	BATHROOM	UD-2	3'-0" X 6'-8"		1		PRIVACY LEVER LOCKSET
19	UNIT 2	LINEN CLOSET	UD-2	2'-6" X 6'-8"		1		PASSAGE LEVER LOCKSET
20	UNIT 2	BATHROOM	UD-2	3'-0" X 6'-8"		1		PRIVACY LEVER LOCKSET
21	UNIT 2	COAT CLOSET	UD-3	4'-0" X 6'-8" (PAIR)		1		PASSAGE LEVER LOCKSET
22	UNIT 2	BEDROOM 2	UD-2	3'-0" X 6'-8"		1		PRIVACY LEVER LOCKSET
23	UNIT 2	BEDROOM 2 CLOSET	UD-2	2'-6" X 6'-8"		1		PASSAGE LEVER LOCKSET
24	UNIT 3	UNIT ENTRY	UD-1	3'-0" X 6'-8"	20 MIN	2	20 MIN	ENTRY LEVER LOCKSET W/ DEADBOLT 4 CLOSER 4 DOOR VIEWER
25	UNIT 3	BATHROOM	UD-2	3'-0" X 6'-8"		1		PRIVACY LEVER LOCKSET
26	UNIT 3	COAT CLOSET	UD-2	2'-6" X 6'-8"		1		PASSAGE LEVER LOCKSET
27	-	NOT USED						
28	UNIT 3	BALCONY ENTRY	YL-1	6'-0" X 6'-8"				PRIVACY LEVER LOCKSET, WEATHERSTRIPING THRESHOLD
29	UNIT 3	BEDROOM	UD-2	3'-0" X 6'-8"		1		PRIVACY LEVER LOCKSET
30	UNIT 3	BEDROOM CLOSET	UD-3	5'-0" X 6'-8" (PAIR)		1		PASSAGE LEVER LOCKSET
31	UNIT 4	UNIT ENTRY (ADA)	UD-1	3'-0" X 6'-8"	20 MIN	2	20 MIN	ENTRY LEVER LOCKSET W/ DEADBOLT 4 CLOSER 4 DOOR VIEWER
32	-	NOT USED						
33	UNIT 4	BEDROOM 1	UD-2	3'-0" X 6'-8"		1		PRIVACY LEVER LOCKSET
34	UNIT 4	BEDROOM 1 CLOSET	UD-3	5'-0" X 6'-8" (PAIR)		1		PASSAGE LEVER LOCKSET
35	UNIT 4	BATHROOM	UD-2	3'-0" X 6'-8"		1		PRIVACY LEVER LOCKSET
36	UNIT 4	LINEN CLOSET	UD-2	2'-0" X 6'-8"		1		80 DEGREE SWING DOOR
37	UNIT 4	BEDROOM 2	UD-2	3'-0" X 6'-8"		1		PRIVACY LEVER LOCKSET
38								

KEY	UNIT	LOCATION	DOOR		FRAME		HARDWARE	REMARKS
			TYPE	SIZE (WxH)	RATING	TYPE		
<b>THIRD FLOOR</b>								
320	-	STAIR 2	ST-3	3'-0" X 1'-0"	60 MIN	2	60 MIN	FIRE EXIT HARDWARE W/ LEVER LOCKSET, CLOSER, ALUM THRESHOLD
321	UNIT 19	UNIT ENTRY	WD-1	3'-0" X 6'-8"	20 MIN	2	20 MIN	ENTRY LEVER LOCKSET W/ DEADBOLT & CLOSER & DOOR VIEWER
322	-	NOT USED						
323	UNIT 19	BALCONY ENTRY	VYL-1	6'-0" X 6'-8"				FRIVACY LEVER LOCKSET, WEATHERSTRIPING, TRIPLE PANE TEMPERED GLAZING
324	UNIT 19	COAT CLOSET	WD-2	2'-6" X 6'-8"				PASSAGE LEVER LOCKSET
325	UNIT 19	BEDROOM 2	WD-2	3'-0" X 6'-8"				FRIVACY LEVER LOCKSET
326	UNIT 19	BEDROOM 2 CLOSET	WD-2	2'-6" X 6'-8"				PASSAGE LEVER LOCKSET
327	UNIT 19	BEDROOM 1	WD-2	3'-0" X 6'-8"				FRIVACY LEVER LOCKSET
328	UNIT 19	BEDROOM 1 CLOSET	WD-3	5'-0" X 6'-8"				PASSAGE LEVER LOCKSET
329	UNIT 19	BATHROOM	WD-2	3'-0" X 6'-8"				FRIVACY LEVER LOCKSET
330	UNIT 19	LINEN CLOSET	WD-2	2'-6" X 6'-8"				PASSAGE LEVER LOCKSET
331	UNIT 19	BATHROOM	WD-2	3'-0" X 6'-8"				FRIVACY LEVER LOCKSET
332	UNIT 20	UNIT ENTRY	WD-1	3'-0" X 6'-8"	20 MIN	2	20 MIN	ENTRY LEVER LOCKSET W/ DEADBOLT & CLOSER & DOOR VIEWER
333	-	NOT USED						
334	UNIT 20	BALCONY ENTRY	VYL-1	6'-0" X 6'-8"				FRIVACY LEVER LOCKSET, WEATHERSTRIPING, TRIPLE PANE TEMPERED GLAZING
335	UNIT 20	BEDROOM 1	WD-2	3'-0" X 6'-8"				FRIVACY LEVER LOCKSET
336	UNIT 20	BEDROOM 1 CLOSET	WD-3	5'-0" X 6'-8"				PASSAGE LEVER LOCKSET
337	UNIT 20	BATHROOM	WD-2	3'-0" X 6'-8"				FRIVACY LEVER LOCKSET
338	UNIT 20	LINEN CLOSET	WD-2	2'-6" X 6'-8"				PASSAGE LEVER LOCKSET
339	UNIT 20	BATHROOM	WD-2	3'-0" X 6'-8"				FRIVACY LEVER LOCKSET
340	UNIT 20	COAT CLOSET	WD-3	4'-0" X 6'-8"				PASSAGE LEVER LOCKSET
341	UNIT 20	BEDROOM 2	WD-2	3'-0" X 6'-8"				FRIVACY LEVER LOCKSET
342	UNIT 20	BEDROOM 2 CLOSET	WD-2	2'-6" X 6'-8"				PASSAGE LEVER LOCKSET
343	UNIT 21	UNIT ENTRY	WD-1	3'-0" X 6'-8"	20 MIN	2	20 MIN	ENTRY LEVER LOCKSET W/ DEADBOLT & CLOSER & DOOR VIEWER
344	-	NOT USED						
345	UNIT 21	BALCONY ENTRY	VYL-1	6'-0" X 6'-8"				FRIVACY LEVER LOCKSET, WEATHERSTRIPING, TRIPLE PANE TEMPERED GLAZING
346	UNIT 21	BEDROOM 1	WD-2	3'-0" X 6'-8"				FRIVACY LEVER LOCKSET
347	UNIT 21	BEDROOM 1 CLOSET	WD-3	5'-0" X 6'-8"				PASSAGE LEVER LOCKSET
348	UNIT 21	BATHROOM	WD-2	3'-0" X 6'-8"				FRIVACY LEVER LOCKSET
349	UNIT 21	BATHROOM	WD-2	3'-0" X 6'-8"				FRIVACY LEVER LOCKSET
350	UNIT 21	COAT CLOSET	WD-3	4'-0" X 6'-8"				PASSAGE LEVER LOCKSET
351	UNIT 21	BEDROOM 2	WD-2	3'-0" X 6'-8"				FRIVACY LEVER LOCKSET
352	UNIT 21	BEDROOM 2 CLOSET	WD-2	2'-6" X 6'-8"				PASSAGE LEVER LOCKSET
353	UNIT 22	UNIT ENTRY	WD-1	3'-0" X 6'-8"	20 MIN	2	20 MIN	ENTRY LEVER LOCKSET W/ DEADBOLT & CLOSER & DOOR VIEWER
354	UNIT 22	BALCONY ENTRY	VYL-1	6'-0" X 6'-8"				FRIVACY LEVER LOCKSET, WEATHERSTRIPING, TRIPLE PANE TEMPERED GLAZING
355	UNIT 22	BEDROOM 1	WD-2	3'-0" X 6'-8"				FRIVACY LEVER LOCKSET
356	UNIT 22	BEDROOM 1 CLOSET	WD-3	5'-0" X 6'-8"				PASSAGE LEVER LOCKSET
357	UNIT 22	BATHROOM	WD-2	3'-0" X 6'-8"				FRIVACY LEVER LOCKSET
358	UNIT 22	COAT CLOSET	WD-3	4'-0" X 6'-8"				PASSAGE LEVER LOCKSET
359	UNIT 22	BEDROOM 2	WD-2	3'-0" X 6'-8"				FRIVACY LEVER LOCKSET
360	UNIT 22	BEDROOM 2 CLOSET	WD-2	2'-6" X 6'-8"				PASSAGE LEVER LOCKSET
361	UNIT 23	UNIT ENTRY	WD-1	3'-0" X 6'-8"	20 MIN	2	20 MIN	ENTRY LEVER LOCKSET W/ DEADBOLT & CLOSER & DOOR VIEWER
362	UNIT 23	BALCONY ENTRY	VYL-1	6'-0" X 6'-8"				FRIVACY LEVER LOCKSET, WEATHERSTRIPING, TRIPLE PANE TEMPERED GLAZING
363	UNIT 23	BEDROOM 1	WD-2	3'-0" X 6'-8"				FRIVACY LEVER LOCKSET
364	UNIT 23	BEDROOM 1 CLOSET	WD-3	5'-0" X 6'-8"				PASSAGE LEVER LOCKSET
365	UNIT 23	BATHROOM	WD-2	3'-0" X 6'-8"				FRIVACY LEVER LOCKSET
366	UNIT 23	BATHROOM	WD-2	3'-0" X 6'-8"				FRIVACY LEVER LOCKSET
367	UNIT 23	COAT CLOSET	WD-3	4'-0" X 6'-8"				PASSAGE LEVER LOCKSET
368	UNIT 23	BEDROOM 2	WD-2	3'-0" X 6'-8"				FRIVACY LEVER LOCKSET
369	UNIT 23	BEDROOM 2 CLOSET	WD-2	2'-6" X 6'-8"				PASSAGE LEVER LOCKSET
370	UNIT 24	UNIT ENTRY	WD-1	3'-0" X 6'-8"	20 MIN	2	20 MIN	ENTRY LEVER LOCKSET W/ DEADBOLT & CLOSER & DOOR VIEWER
371	UNIT 24	BALCONY ENTRY	VYL-1	6'-0" X 6'-8"				FRIVACY LEVER LOCKSET, WEATHERSTRIPING, TRIPLE PANE TEMPERED GLAZING
372	UNIT 24	BEDROOM 1	WD-2	3'-0" X 6'-8"				FRIVACY LEVER LOCKSET
373	UNIT 24	BEDROOM 1 CLOSET	WD-3	5'-0" X 6'-8"				PASSAGE LEVER LOCKSET
374	UNIT 24	BATHROOM	WD-2	3'-0" X 6'-8"				FRIVACY LEVER LOCKSET
375	UNIT 24	BATHROOM	WD-2	3'-0" X 6'-8"				FRIVACY LEVER LOCKSET
376	UNIT 24	COAT CLOSET	WD-3	4'-0" X 6'-8"				PASSAGE LEVER LOCKSET
377	UNIT 24	BEDROOM 2	WD-2	3'-0" X 6'-8"				FRIVACY LEVER LOCKSET
378	UNIT 24	BEDROOM 2 CLOSET	WD-2	2'-6" X 6'-8"				PASSAGE LEVER LOCKSET
379	UNIT 25	UNIT ENTRY	WD-1	3'-0" X 6'-8"	20 MIN	2	20 MIN	ENTRY LEVER LOCKSET W/ DEADBOLT & CLOSER & DOOR VIEWER
380	UNIT 25	BALCONY ENTRY	VYL-1	6'-0" X 6'-8"				FRIVACY LEVER LOCKSET, WEATHERSTRIPING, TRIPLE PANE TEMPERED GLAZING
381	UNIT 25	BEDROOM 1	WD-2	3'-0" X 6'-8"				FRIVACY LEVER LOCKSET
382	UNIT 25	BEDROOM 1 CLOSET	WD-3	5'-0" X 6'-8"				PASSAGE LEVER LOCKSET
383	UNIT 25	BATHROOM	WD-2	3'-0" X 6'-8"				FRIVACY LEVER LOCKSET
384	UNIT 25	BATHROOM	WD-2	3'-0" X 6'-8"				FRIVACY LEVER LOCKSET
385	UNIT 25	COAT CLOSET	WD-3	4'-0" X 6'-8"				PASSAGE LEVER LOCKSET
386	UNIT 25	BEDROOM 2	WD-2	3'-0" X 6'-8"				FRIVACY LEVER LOCKSET
387	UNIT 25	BEDROOM 2 CLOSET	WD-2	2'-6" X 6'-8"				PASSAGE LEVER LOCKSET
388	UNIT 25	NOT USED						
389	UNIT 21	BALCONY ENTRY	VYL-1	6'-0" X 6'-8"				FRIVACY LEVER LOCKSET, WEATHERSTRIPING, TRIPLE PANE TEMPERED GLAZING
390	UNIT 21	BEDROOM 1	WD-2	3'-0" X 6'-8"				FRIVACY LEVER LOCKSET
391	UNIT 21	BEDROOM 1 CLOSET	WD-3	5'-0" X 6'-8"				PASSAGE LEVER LOCKSET
392	UNIT 21	BATHROOM	WD-2	3'-0" X 6'-8"				FRIVACY LEVER LOCKSET
393	UNIT 21	LINEN CLOSET	WD-2	2'-6" X 6'-8"				PASSAGE LEVER LOCKSET

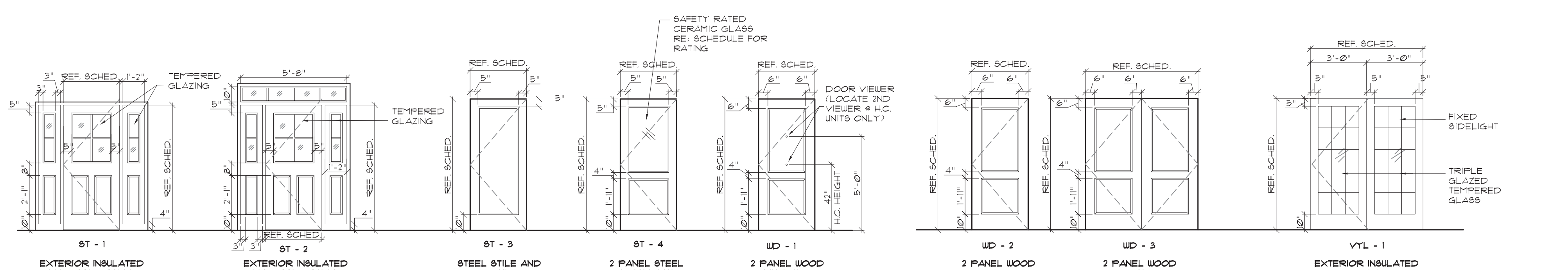


### BUILDINGS E & F, COMMUNITY BUILDING

## WINDOW TYPES

### GENERAL FINISH / DOOR NOTES:

- CONTRACTOR TO VERIFY ALL MEASUREMENTS IN FIELD, NOTIFY ARCHITECT OF ANY CONFLICTS.
- PROVIDE DOOR STOPS & GILLNETS AT ALL DOORS.
- CAULK ALL FRAMES.
- COORDINATE ALL HARDWARE W/ SECURITY VENDOR & ELECTRICIAN (WHERE REQUIRED).
- PROVIDE TRANSITION STRIPS AT ALL CHANGES IN FLOORING FINISHES. CHANGE IN LEVEL IN FLOOR SURFACES SHALL NOT EXCEED 1/8" AND SLOPE OF THRESHOLD SHALL NOT BE GREATER THAN 1:2, IN COMPLIANCE WITH THE AMERICAN DISABILITIES ACT.
- PROVIDE AN ALUMINUM TERMINATION STRIP AT PORCELAIN FLOOR TILE WHERE TRANSITIONING TO DIFFERENT FLOOR FINISH.
- DO NOT PAINT ALUMINUM DOORS.
- ALL FLOOR FINISHES TO CONTINUE INTO ADJACENT CLOSETS.
- SEAL ALL EXPOSED CONCRETE FLOORS AT MECHANICAL AND CUSTODIAL CLOSETS. INSTALL VINYL WALL BASE (B-1).
- REFER TO "ID DRAWINGS" FOR ADDITIONAL FINISH INFORMATION AND PAINT COLORS.



### BUILDINGS E & F

## DOOR TYPES

### APPLIANCE SCHEDULE

KEY	NAME	MANUFACTURER	MODEL #	SIZE (INCHES) (WxDxH)	REMARKS
A-1	RANGE	GENERAL ELECTRIC	JBS460DIBB/BLACK	30" X 28 1/2" X 41"	
A-2	REFRIGERATOR	GENERAL ELECTRIC	GTE1827NRBB/BLACK	28" X 32 1/2" X 61"	
A-3	DISHWASHER	GENERAL ELECTRIC	GSD3300KBB/BLACK	24" X 24" X 34 1/2"	
A-4	MICROWAVE / HOOD	GENERAL ELECTRIC	JNM3163DJB/BLACK	24" X 24" X 34 1/2"	
A-5	ADA RANGE	GENERAL ELECTRIC	JB480DIBB/BLACK	29 1/2" X 29" X 41"	
A-6	ADA REFRIGERATOR	GENERAL ELECTRIC	GTE1827NRBB/BLACK	28" X 32 1/2" X 65"	
A-7	ADA DISHWASHER	GENERAL ELECTRIC	GDT2259LBB/BLACK	24" X 24" X 34 1/2"	
A-8	ADA MICROWAVE	GENERAL ELECTRIC	FE81727DLBB/BLACK	24" X 24" X 34 1/2"	
A-9	30" COOKTOP (GROUP 2A)	GENERAL ELECTRIC	JP3030DJB/BLACK	30" X 24" X 34 1/2"	
A-10	30" WALL OVEN (GROUP 2A)	GENERAL ELECTRIC	JT53000DNBB/BLACK	30" X 24" X 48"	
A-11	RANGE HOOD (ADA UNITS)	GENERAL ELECTRIC	JVX3300DJB/BLACK	30" X 24" X 34 1/2"	

### ACCESSORY SCHEDULE

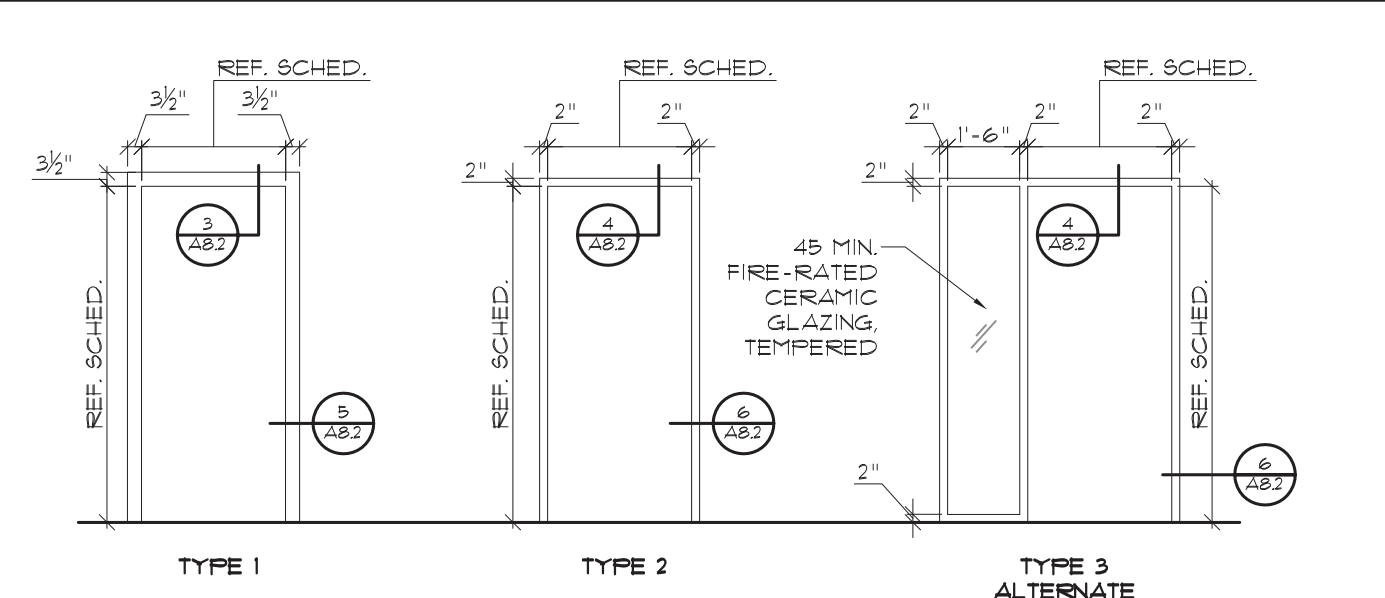
KEY	TYPE	MANUF.	MODEL #	SIZE (W X H)	COLOR	REMARKS
1	GRAB BAR	BOBRICK OR EQUAL	B-5806-99	42" LONG	N/A	MOUNT @ 33" - 36" ABOVE FLOOR TO BOTTOM OF BAR
2	GRAB BAR	BOBRICK OR EQUAL	B-5806-99	36" LONG	N/A	MOUNT @ 33" - 36" ABOVE FLOOR TO BOTTOM OF BAR
3	GRAB BAR	BOBRICK OR EQUAL	B-5806-99	6" VERTICAL	N/A	MOUNT @ 33" - 41" ABOVE FLOOR TO BOTTOM OF BAR
4	MIRROR	FRAMELESS WITH BEVELED EDGE		66" X 36"		MOUNT @ 42" MAX ABOVE FLOOR TO BOTTOM OF REFLECTIVE SURFACE. MOUNT @ 40" MAX ABOVE FLOOR @ ADA UNITS TO BOTTOM OF REFLECTIVE SURFACE
5	MIRROR	FRAMELESS WITH BEVELED EDGE		48" X 36"		MOUNT @ 42" MAX ABOVE FLOOR TO BOTTOM OF REFLECTIVE SURFACE. MOUNT @ 40" MAX ABOVE FLOOR @ ADA UNITS TO BOTTOM OF REFLECTIVE SURFACE
6	MIRROR	FRAMED		24" X 36"		MOUNT @ 40" MAX ABOVE FLOOR TO BOTTOM OF REFLECTIVE SURFACE. MOUNT @ 48" MAX ABOVE FLOOR TO BOTTOM OF DRYER
7	ELECTRIC HAND DRYER	EXCEL DRYER	XL-BW-ECCO		WHITE	MOUNT @ 48" MAX ABOVE FLOOR TO BOTTOM OF DISPENSER LEVER
8	SOAP DISPENSER					MOUNT @ 15" MIN ABOVE FLOOR
9	TOILET PAPER HOLDER	OLYMPIA	1MT032		CHROME	MOUNT @ 48" MAX ABOVE FLOOR
10	SHOWER ROD	OLYMPIA	2102-3P5			MOUNT @ 14" ABOVE FLOOR
11	ROBE HOOK	OLYMPIA	1MT033		CHROME	MOUNT @ 60" ABOVE FLOOR
12	TOILET BAR	OLYMPIA	1MT030	24" LONG	CHROME	MOUNT @ 48" MAX ABOVE FLOOR @ ADA UNITS. MOUNT @ 42" MAX ABOVE FLOOR
13	TOILET BAR	OLYMPIA	1MT031	6" LONG	CHROME	MOUNT @ 42" MAX ABOVE FLOOR
14	RECESSED MEDICINE CABINET	WU WOOD PRODUCTS	FR-224	24" X 14"	WHITE	MOUNT @ 48" MAX ABOVE FLOOR TO BOTTOM OF CABINET

### WINDOW SCHEDULE

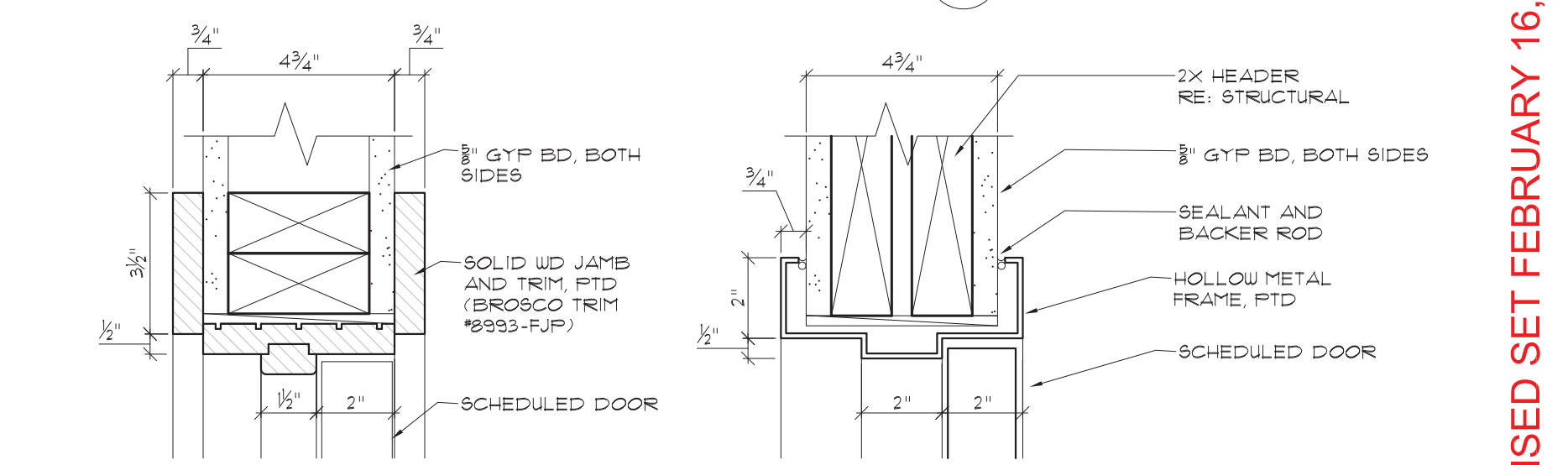
KEY	TYPE	DESCRIPTION	MANUF.	MODEL #	RO. SIZE (WxH)	REMARKS
A	DOUBLE TILT / TURN VINYL CASEMENT	TRIPLE GLAZED, BALANCE & PH PLUS TGT	ALFEN	TYROL SERIES; TR-6	6'-0" X 5'-0"	WITH NAILING FLANGE, 3 1/4" FLAT CASING, REF. DETAIL 6
B	SINGLE TILT / TURN VINYL CASEMENT	TRIPLE GLAZED, BALANCE & PH PLUS TGT	ALFEN	TYROL SERIES; TR-6	2'-11 1/2" X 5'-0"	WITH NAILING FLANGE, 3 1/4" FLAT CASING, REF. DETAIL 6
C	DOUBLE VINYL FIXED	TRIPLE GLAZED, BALANCE & PH PLUS TGT, TEMPERED GLAZING	ALFEN	TYROL SERIES; TR-6	5'-0" X 2'-0"	WITH NAILING FLANGE, 3 1/4" FLAT CASING, REF. DETAIL 6
D	VINYL PICTURE	TRIPLE GLAZED, BALANCE & PH PLUS TGT, TEMPERED GLAZING	ALFEN	TYROL SERIES; TR-6	4'-10 1/2" X 5'-0"	WITH NAILING FLANGE, 3 1/4" FLAT CASING, REF. DETAIL 6
E	VINYL FIXED TRANSOM	TRIPLE GLAZED, BALANCE & PH PLUS TGT	ALFEN	TYROL SERIES; TR-6	4'-10 1/2" X 3'-11"	3 1/4" FLAT CASING, REF. DETAIL 6
F	VINYL FIXED TRANSOM	TRIPLE GLAZED, BALANCE & PH PLUS TGT	ALFEN	TYROL SERIES; TR-6	2'-11 1/2" X 1'-6 1/2"	3 1/4" FLAT CASING, REF. DETAIL 6
G	INTERIOR WINDOW FIXED FRAMELESS	1/4" TEMPERED FRAMELESS GLASS	CRL			REF. ID DRAWINGS

### NOTES:

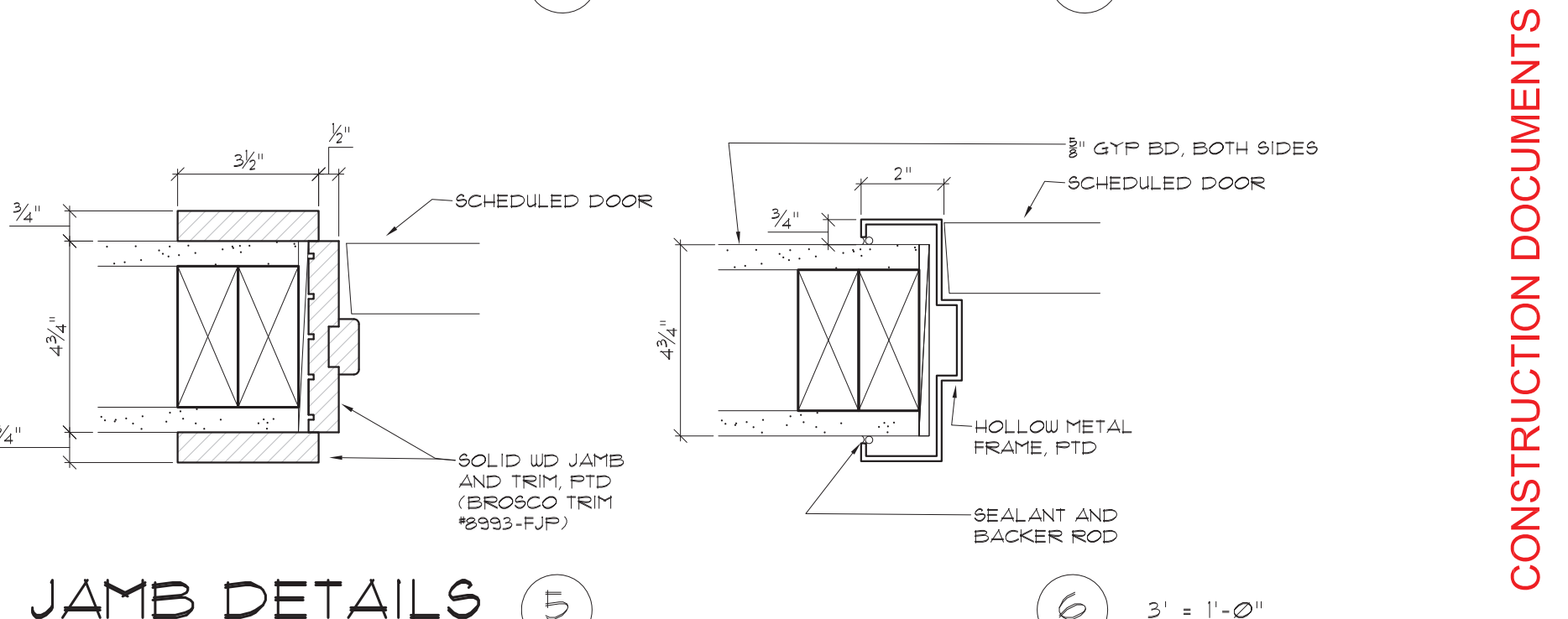
- CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS
- PROVIDE SCREENS AT ALL OPERABLE WINDOWS
- PROVIDE BLINDS AT ALL WINDOWS INSIDE UNITS
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WEATHER TIGHTNESS AND SECURITY OF BUILDINGS AT ALL TIMES
- PROVIDE WINDOW CONTROL OPENING DEVICE AT ALL WINDOWS, TYP.



### FRAME TYPES



### HEAD DETAILS



### JAMB DETAILS

CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

**Ed Wojcik**  
architect, ltd  
One Richmond Square  
Providence, RI 02906  
401-861-7139

Proposed Design for:  
**Woodland Cove**  
**Phase 1**  
Buildings E, F, & COMMUNITY BUILDING  
3102 Cranberry Highway  
Wareham, MA 02552



SHEET CONTENTS:  
Building F:  
Door Schedule  
Door Types & Details

PROJECT # 1420  
DATE: 9/22/2020  
REVISED DATE:  
REVISED: 02/16/2021

# A8.2

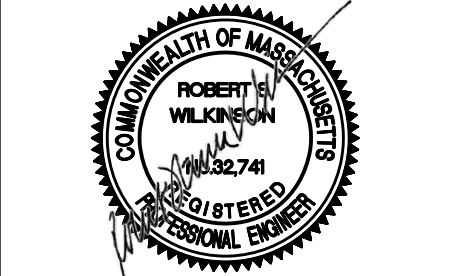


PIPING & SYMBOLS	
	EXISTING PENDANT HEAD TO REMAIN
	ACCESS DOOR OR AUTOMATIC DAMPER
	ABOVE FINISHED FLOOR
	AIR FLOW MEASURING STATION
	EXISTING PENDANT HEAD TO BE REMOVED, PLUG CONNECTION
	EXISTING UPRIGHT HEAD TO BE REMOVED, PLUG CONNECTION
	EXISTING SIDEWALL HEAD TO BE REMOVED, PLUG CONNECTION
	NEW PENDANT HEAD
	NEW PENDANT HEAD, RESIDENTIAL TYPE
	NEW UPRIGHT HEAD ABOVE DROPPED CEILING
	NEW UPRIGHT HEAD
	NEW UPRIGHT HEAD, RESIDENTIAL TYPE
	NEW SIDEWALL HEAD
	NEW SIDEWALL HEAD, RESIDENTIAL TYPE
	EXISTING PIPING TO REMAIN
	EXISTING PIPING TO BE REMOVED
	NEW PIPING
	EXISTING O.S. & Y VALVE
	NEW O.S. & Y VALVE
	NEW BUTTERFLY VALVE
	EXISTING CHECK VALVE
	NEW CHECK VALVE
	PRESSURE GAUGE
	FLOW SWITCH
	NEW CONNECTION @ EXISTING HEAD LOCATION
	NEW CONNECTION @ EXISTING CROSS MAIN
	GREEN AGENT FIRE SUPPRESSION SYSTEM CONTROL PANEL
	FIRE SUPPRESSION SYSTEM PULL STATION
	ALARM HORN AND STROBE
	ABORT SWITCH

ABBREVIATIONS			
AC	AIR CONDITIONING	EWC	ELECTRIC WATER COOLER
AD	ACCESS DOOR OR AUTOMATIC DAMPER	EWT	ENTERING WATER TEMPERATURE
AFF	ABOVE FINISHED FLOOR	EXH	EXHAUST
AFS	AIR FLOW MEASURING STATION	EXIST	EXISTING
AHU	AIR HANDLING UNIT	FA	FRESH AIR
AI	ANALOG INPUT	FACP	FIRE ALARM CONTROL PANEL
AMD	AIRFLOW MEASURING DEVICE	FAS	FIRE ALARM SYSTEM
AO	ANALOG OUTPUT	FC	FAIL CLOSED
AP	ACCESS PANEL	FCU	FAN COIL UNIT
APD	AIR PRESSURE DROP	FCO	FLOOR CLEANOUT
ATC	AUTOMATIC CONTROL CONTRACTOR	*F	FAHRENHEIT
ATS	AUTOMATIC TRANSFER SWITCH	FD	FLOOR DRAIN
AUX	AUXILIARY	F/D	FIRE DAMPER
BAS	BUILDING AUTOMATION SYSTEM	FDC	FIRE DEPARTMENT CONNECTION
BD	BLOWDOWN	FH	FUME HOOD
BDD	BACKDRAFT DAMPER	FLA	FULL LOAD AMPS
BF	BOILER FEED	FLEX	FLEXIBLE
BFP	BACKFLOW PREVENTER	FLG	FLANGED
BHP	BRAKE HORSEPOWER	FLR	FLOOR
BLDG	BUILDING	FO	FAIL OPEN OR FUEL OIL
BLR	BOILER	FOD	FUEL OIL DISCHARGE
BO	BLOW OFF	FOR	FUEL OIL RETURN
BOD	BOTTOM OF DUCT	FOS	FUEL OIL SUPPLY
BOP	BOTTOM OF PIPE	FPF	FINS PER FOOT
BOS	BOTTOM OF STEEL / STRUCTURE	FPM	FEET PER MINUTE
BOT	BOTTOM	FPS	FEET PER SECOND
BPD	BY-PASS DAMPER	FS	FLOW SWITCH
BTU	BRITISH THERMAL UNIT	FT	FLOW TRANSMITTER OR FEET
BTUH	BRITISH THERMAL UNITS PER HOUR	FTR	FINNED TUBE RADIATION
C	CENTER LINE	FUT	FUTURE
CA	COMPRESSED AIR	G	NATURAL GAS (PIPING)
CAV	CONSTANT AIR VOLUME	GA	GAUGE
CC	COMPRESSOR CONDENSER	GAL	GALLON
CD	CONDENSATE DRAIN	GC	GENERAL CONTRACTOR
CDR	CONDENSER WATER RETURN	GEN	GENERATOR
CDS	CONDENSER WATER SUPPLY	GPH	GALLONS PER HOUR
*C	CENTIGRADE	GPM	GALLONS PER MINUTE
CF	CHEMICAL FEED	GWR	GLYCOL WATER RETURN
CFM	CUBIC FEET PER MINUTE	GWS	GLYCOL WATER SUPPLY
CHW	PRIMARY CHILLED WATER	H	HUMIDISTAT
CHWR	CHILLED WATER RETURN	HB	HOSE BIB
CHWS	CHILLED WATER SUPPLY	HC	HEATING COIL
CLG	CEILING	HD	HEAD
CO	CLEANOUT	HEPA	HIGH EFFICIENCY PARTICULATE ARRESTOR
COMB	COMBINATION	HI	HIGH
CONN	CONNECTION	HGT	HEIGHT
CPU	CENTRAL PROCESSING UNIT	HL	HIGH LIMIT
CR	CURRENT RELAY	HOA	HAND OFF AUTOMATIC SELECTOR
CS	CURRENT SWITCH	HOR	HORIZONTAL
CSS	CLEAN STEAM SUPPLY	HP	HORSEPOWER
CSCR	CLEAN STEAM CONDENSATE RETURN	HPCR	HIGH PRESSURE CONDENSATE RETURN
CUH	CABINET UNIT HEATER	HPS	HIGH PRESSURE STEAM SUPPLY
CV	CONSTANT VOLUME OR CONTROL VALVE	HR	HOUR OR HUMIDITY RATIO
CW	COLD WATER	HS	HUMIDITY SENSOR
D	DRAIN	HT	HUMIDITY TRANSDUCER
DA	DIRECT ACTING	HTHWR	HIGH TEMPERATURE HOT WATER RETURN
DB	DRY BULB	HTHWS	HIGH TEMPERATURE HOT WATER SUPPLY
DCW	DOMESTIC COLD WATER	HUM	HUMIDITY
DDC	DIRECT DIGITAL CONTROL	HVAC	HEATING, VENTILATING, AIR CONDITIONING
DEG	DEGREE	HV	HEATING & VENTILATING
DHW	DOMESTIC HOT WATER	HW	HOT WATER
DI	DIGITAL INPUT	HWR	HOT WATER RETURN / RECIRCULATION
DIA	DIAMETER	HWS	HOT WATER SUPPLY
DL	DOOR LOUVER	IA	INSTRUMENT AIR
DN	DOWN	I&C	INSTRUMENT AND CONTROL
DO	DIGITAL OUTPUT	ID	INSIDE DIAMETER
DP	DIFFERENTIAL PRESSURE	IFB	INTERNAL FACE AND BYPASS
DPT	DIFFERENTIAL PRESSURE TRANSMITTER	IN	INCHES
DR	DRAIN	IN HG	INCHES MERCURY
DT	DIFFERENTIAL TEMPERATURE	INS	INSULATION
DWG	DRAWING	IN WG	INCHES WATER GAUGE
DX	DIRECT EXPANSION	INV	INVERT
EA	EXHAUST AIR	INV EL	INVERT ELEVATION
EAD	EXHAUST AIR DAMPER	I/O	INPUT / OUTPUT
EAT	ENTERING AIR TEMPERATURE	IP	CURRENT TO PNEUMATIC
EC	ELECTRICAL CONTRACTOR	ISP	INTERNAL STATIC PRESSURE
EDB	ENTERING DRY BULB TEMPERATURE	IW	INDIRECT WASTE
EF-#	EXHAUST FAN	KW	KILOWATT
EFF	EFFICIENCY	L	LENGTH
EG	EXHAUST GRILLE	LAN	LOCAL AREA NETWORK
EL	ELEVATION	LAT	LEAVING AIR TEMPERATURE
EMS	ELECTRIC MOTOR STARTER	LAV	LAVATORY
ENT	ENTERING	LB/HR	POUNDS PER HOUR
EP	ELECTRIC-PNEUMATIC	LBS	POUNDS
ESP	EXTERNAL STATIC PRESSURE	LD	LINEAR DIFFUSER
ET	EXPANSION TANK	LED	LIGHT EMITTING DIODE
EQUIP	EQUIPMENT	LL	LOW LIMIT
EWB	ENTERING WET BULB TEMPERATURE	LO	LOW
LP	LOW PRESSURE	LPCR	LOW PRESSURE CONDENSATE RETURN
LPS	LOW PRESSURE STEAM SUPPLY	LRA	LOCKED ROTOR AMPS
LRA	LOCKED ROTOR AMPS	LS	LIMIT SWITCH
LW	LEAVING WATER TEMPERATURE	LWT	LEAVING WATER TEMPERATURE
MAN	MANUAL	MAT	MIXED AIR TEMPERATURE
MAT	MIXED AIR TEMPERATURE	MAX	MAXIMUM
MBH	1000 BTU PER HOUR	MC	MECHANICAL CONTRACTOR
MCA	MAX CIRCUIT AMPS	MCC	MOTOR CONTROL CENTER
M/D	MOTORIZED DAMPER	M/D	MOTORIZED DAMPER
MECH	MECHANICAL	MFR	MANUFACTURER
MER	MECHANICAL EQUIPMENT ROOM	MGS	MANUAL GRADUAL SWITCH
MIN	MINIMUM	MOD	MOTOR OPERATED DAMPER
MPCR	MEDIUM PRESSURE CONDENSATE RETURN	MPS	MEDIUM PRESSURE STEAM SUPPLY
MTR	MOTOR	NC	NORMALLY CLOSED OR NOISE CRITERIA
NG	NATURAL GAS	NTS	NOT TO SCALE
NIC	NOT IN CONTRACT	OA	OUTSIDE AIR
NO	NORMALLY OPEN OR NUMBER	OAD	OUTSIDE AIR DAMPER
NPW	NON POTABLE WATER	OAI	OUTSIDE AIR INTAKE
OAT	OUTSIDE AIR TEMPERATURE	OBD	OPOSED BLADE DAMPER
OCC	OCCUPIED	OC	ON CENTER
OD	OUTSIDE DIAMETER	ODP	OPEN DRIP ROOF
ODP	OPEN DRIP ROOF	OS&Y	OUTSIDE SCREW & YOKE
OZ	OUNCE	P	PUMP
P	PUMP	PC	PUMPED CONDENSATE
PC	PUMPED CONDENSATE	PCR	PROCESS COOLING RETURN
PCS	PROCESS COOLING SUPPLY	PD	PRESSURE DROP
PDI	PRESSURE DIFFERENTIAL INDICATOR	PDS	PRESSURE DIFFERENTIAL SENSOR
PDT	PRESSURE DIFFERENTIAL TRANSMITTER	PDU	POWER DISTRIBUTION UNIT
PE	PNEUMATIC ELECTRIC	PH/ø	PHASE
PH/ø	PHASE	PHC	PREHEAT COIL
PHC	PREHEAT COIL	P/I	PNEUMATIC TO CURRENT TRANSDUCER
P/I	PNEUMATIC TO CURRENT TRANSDUCER	PI	PRESSURE INDICATOR
PI	PRESSURE INDICATOR	PID	PROPORTIONAL INTEGRATE AND DERIVATIVE
PID	PROPORTIONAL INTEGRATE AND DERIVATIVE	PIV	POST INDICATOR VALVE
PLC	PROGRAMMABLE LOGIC CONTROLLER	PLC	PROGRAMMABLE LOGIC CONTROLLER
PNEU	PNEUMATIC	PPH	POUNDS PER HOUR
PPH	POUNDS PER HOUR	PR	PRESSURE
PR	PRESSURE	PRV	PRESSURE REDUCING VALVE
PRV	PRESSURE REDUCING VALVE	PSF	POUNDS PER SQUARE FOOT
PSF	POUNDS PER SQUARE FOOT	PSIG	POUNDS PER SQUARE INCH GAUGE
PSIG	POUNDS PER SQUARE INCH GAUGE	PSI	POUNDS PER SQUARE INCH
PSI	POUNDS PER SQUARE INCH	PST	PRESSURE TRANSMITTER
PST	PRESSURE TRANSMITTER	RA	RETURN AIR
RA	RETURN AIR	RAD	RETURN AIR DAMPER
RAD	RETURN AIR DAMPER	RAF	RETURN AIR FAN
RAF	RETURN AIR FAN	RCP	REMOTE CONTROL PANEL
RCP	REMOTE CONTROL PANEL	RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN	REQ'D	REQUIRED
REQ'D	REQUIRED	REV	REVISION
REV	REVISION	RF	RETURN FAN
RF	RETURN FAN	RG	RETURN GRILLE
RG	RETURN GRILLE	RH	RELATIVE HUMIDITY
RH	RELATIVE HUMIDITY	RHC	REHEAT COIL
RHC	REHEAT COIL	RL	REFRIGERATION LIQUID
RL	REFRIGERATION LIQUID	RLA	RUNNING LOAD AMPS
RLA	RUNNING LOAD AMPS	RM	ROOM
RM	ROOM	RO	ROOF OPENING
RO	ROOF OPENING		

CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

Proposed Design for:  
**Woodland Cove**  
**Phase I**  
Buildings E, F, & COMMUNITY BUILDING  
3102 Cranberry Highway  
Wareham, MA 02532



SHEET CONTENTS:  
FIRE PROTECTION:  
BUILDINGS E & F  
ABBREVIATIONS,  
SYMBOLS AND LEGENDS

PROJECT # 1420  
DATE: 9/22/2020  
REVISED DATE:  
▲ REVISED: 02/16/2021

**F0.0**

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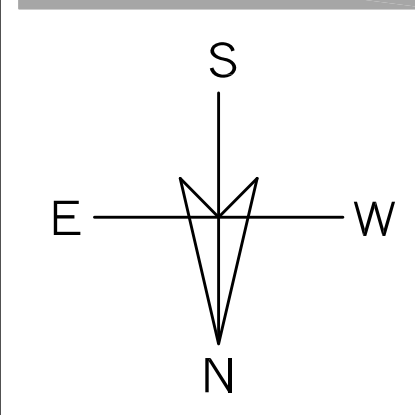
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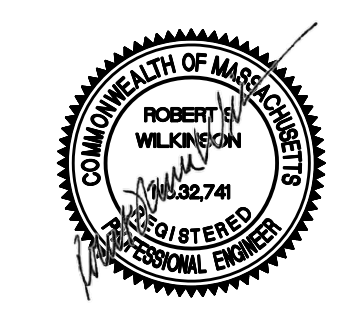
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**Ed Wojcik** architect, ltd  
One Richmond Square  
Providence, RI 02906  
401 • 861 • 7139



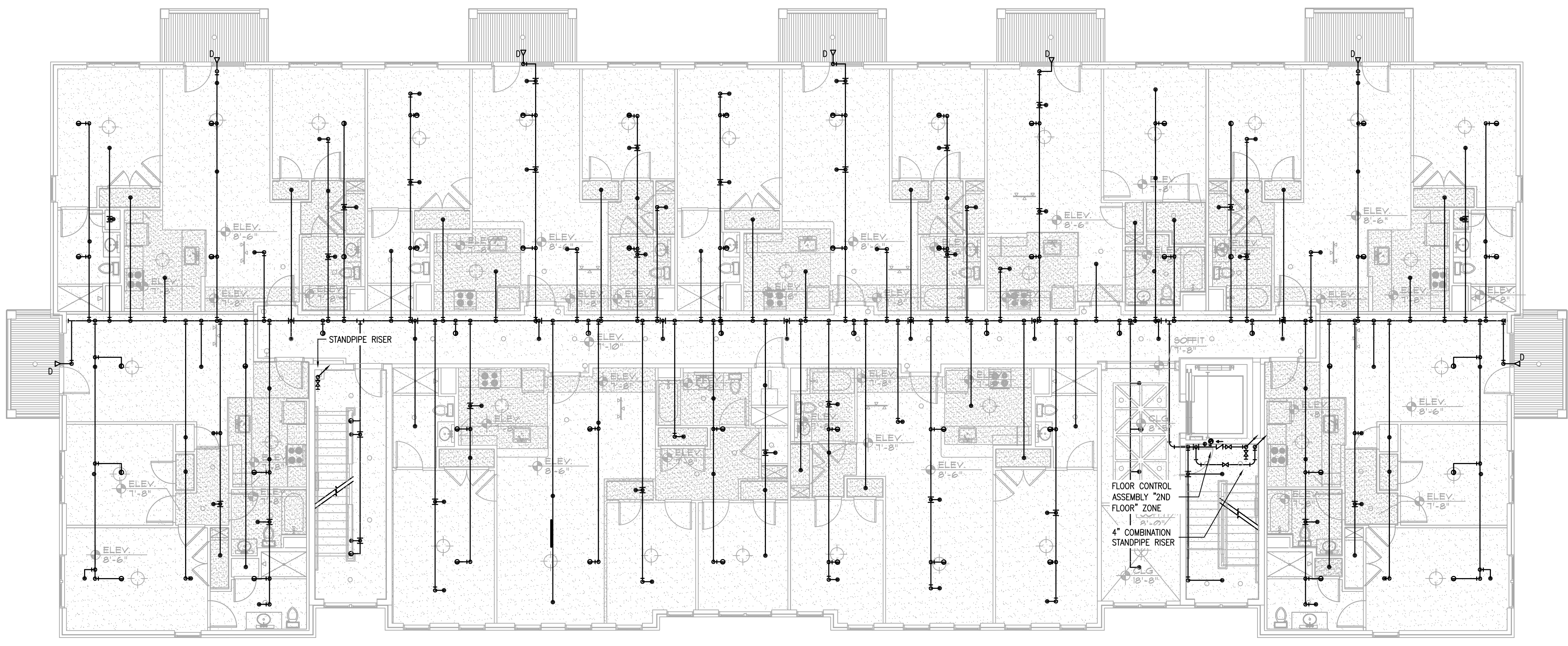
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**SHEET CONTENTS:**  
FIRE PROTECTION:  
BUILDING E  
FIRST AND SECOND  
FLOOR PLANS

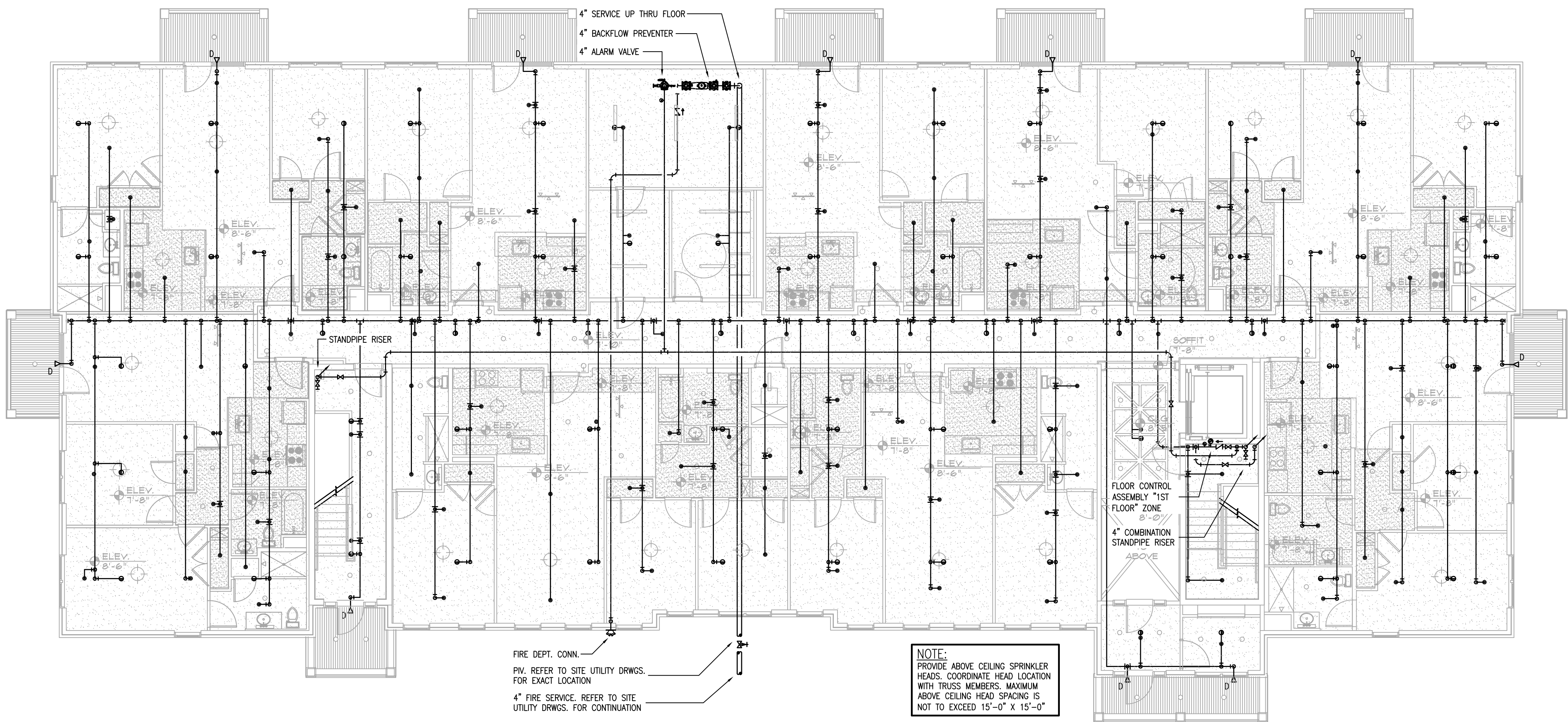
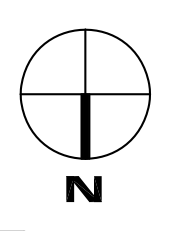
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**F1.0**



**NOTE:**  
PROVIDE ABOVE CEILING SPRINKLER HEADS. COORDINATE HEAD LOCATION WITH TRUSS MEMBERS. MAXIMUM ABOVE CEILING HEAD SPACING IS NOT TO EXCEED 15'-0" X 15'-0"

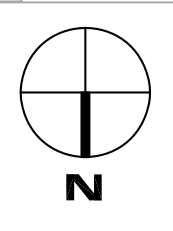
**2 FIRE PROTECTION: BUILDING E, SECOND FLOOR PLAN**  
F1.0 SCALE: 1/8" = 1'-0"



FIRE DEPT. CONN.  
PIV. REFER TO SITE UTILITY DRWGS. FOR EXACT LOCATION  
4" FIRE SERVICE. REFER TO SITE UTILITY DRWGS. FOR CONTINUATION

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**1 FIRE PROTECTION: BUILDING E, FIRST FLOOR PLAN**  
F1.0 SCALE: 1/8" = 1'-0"



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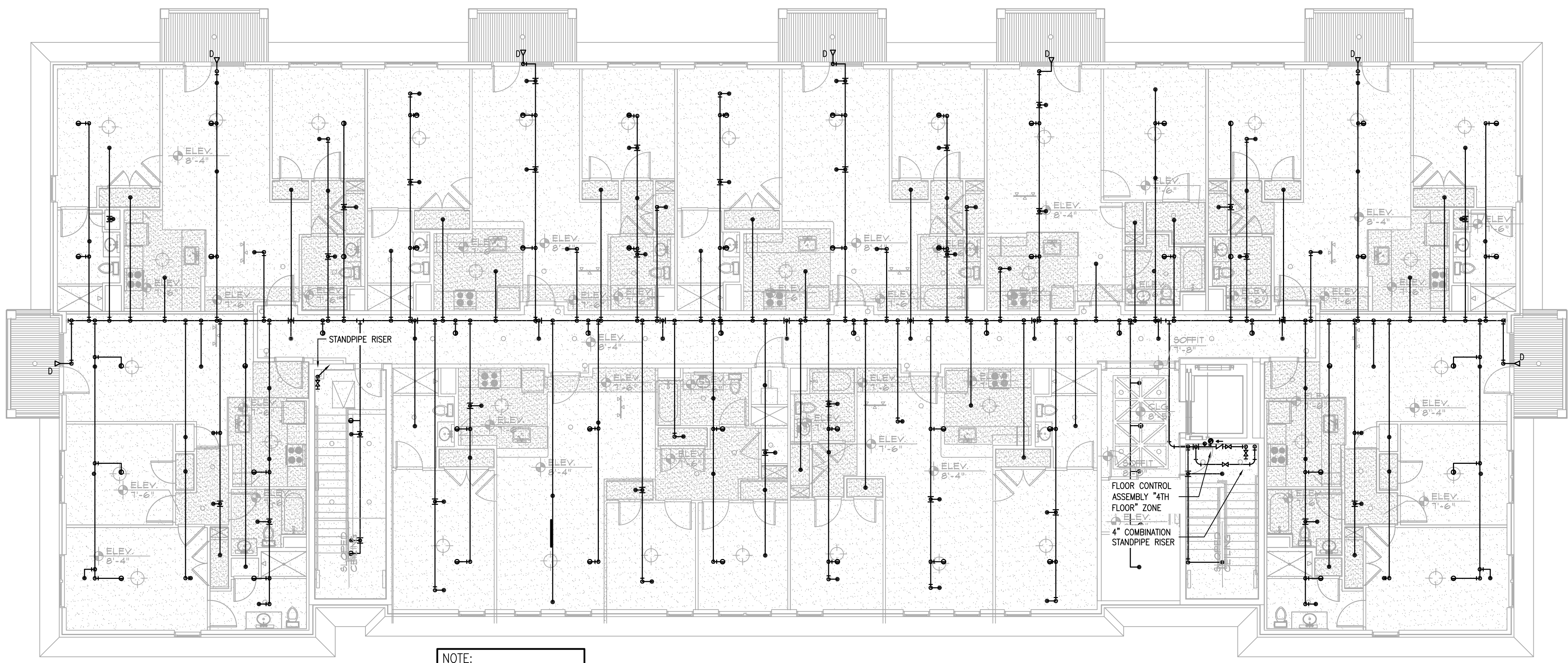
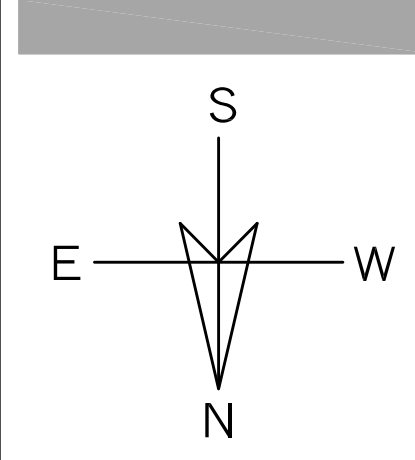
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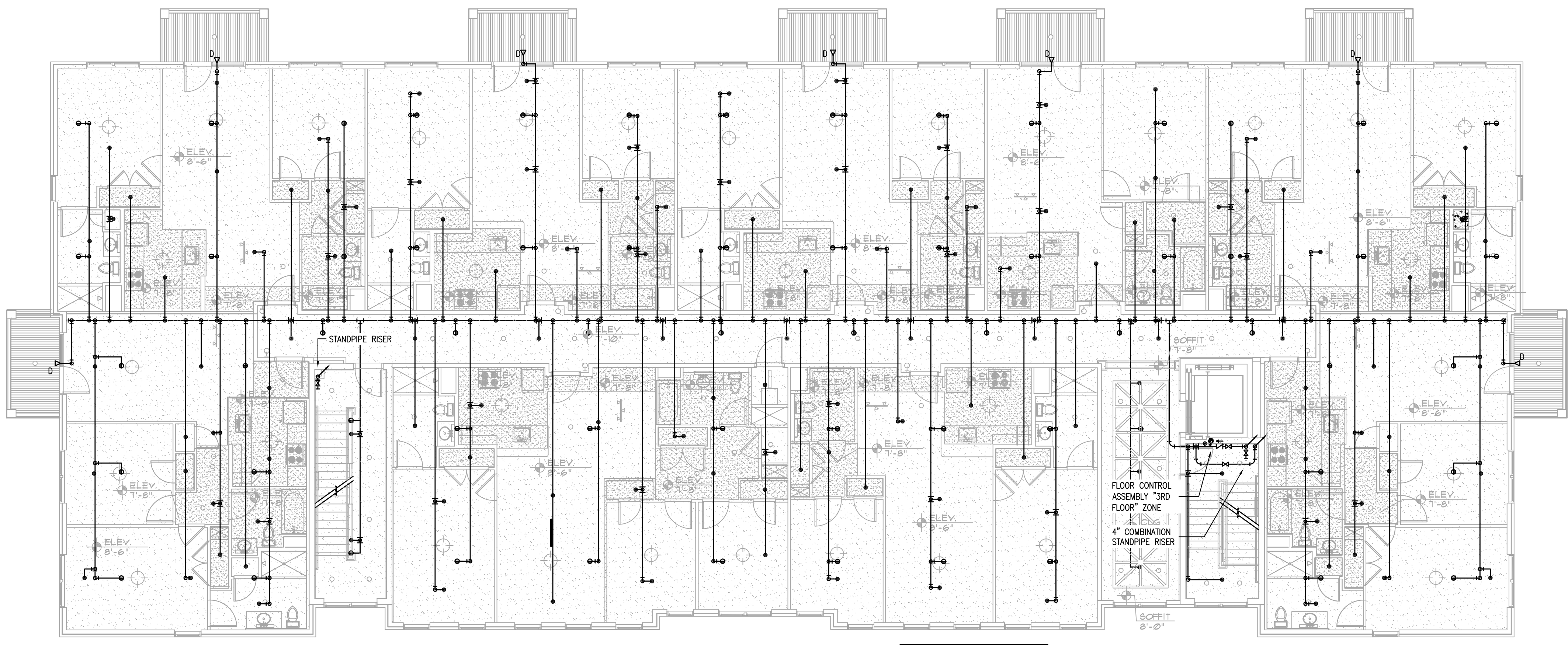
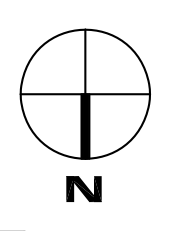
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architect, ltd  
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401-861-7139



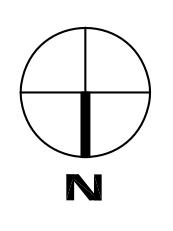
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**2 FIRE PROTECTION: BUILDING E, FOURTH FLOOR PLAN**  
F1.1 SCALE: 1/8" = 1'-0"



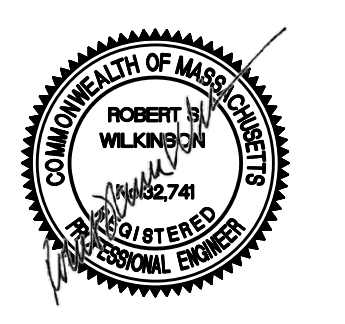
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**1 FIRE PROTECTION: BUILDING E, THIRD FLOOR PLAN**  
F1.1 SCALE: 1/8" = 1'-0"



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Proposed Design for:  
**Woodland Cove**  
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Buildings E, F, & COMMUNITY BUILDING  
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**SHEET CONTENTS:**  
FIRE PROTECTION:  
BUILDING E  
THIRD AND FOURTH  
FLOOR PLANS

PROJECT # 1420  
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**F1.1**



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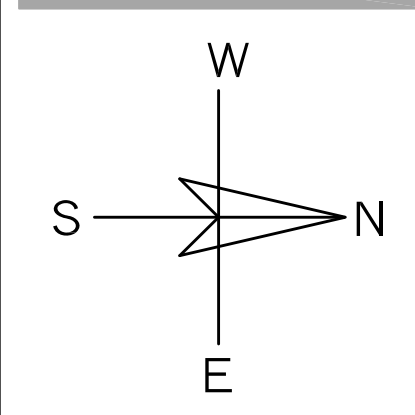
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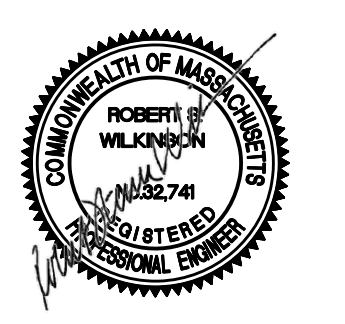
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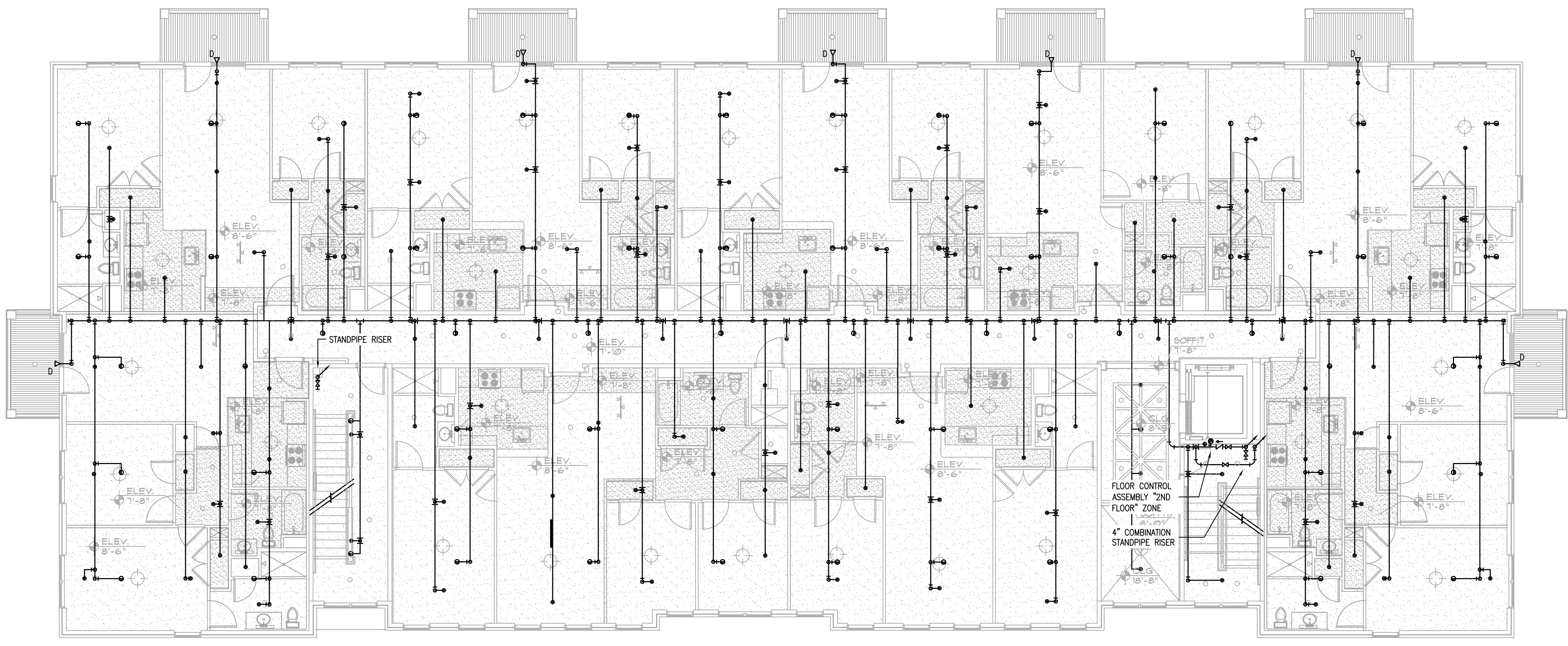
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FIRST AND SECOND  
FLOOR PLANS

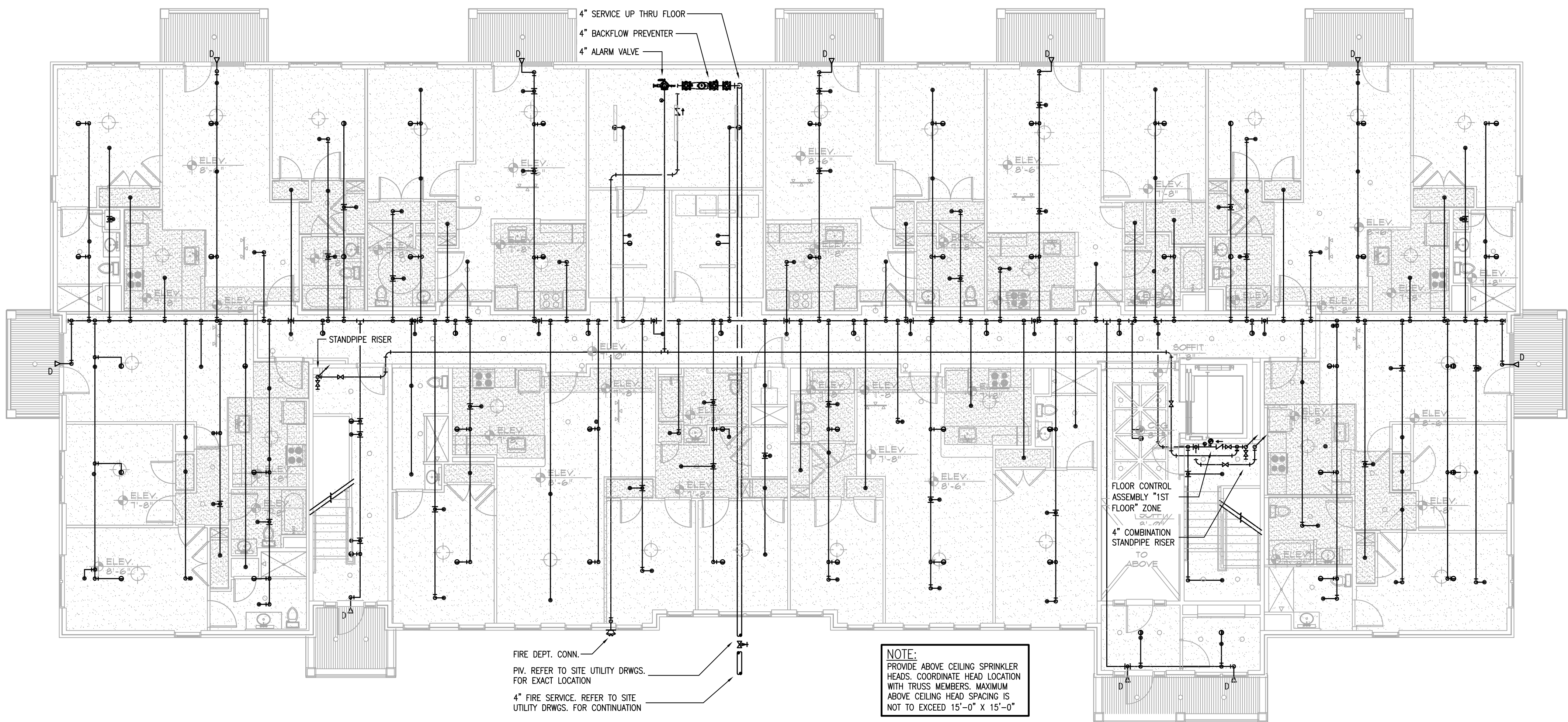
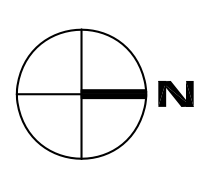
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**F1.2**



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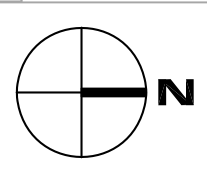
**2 FIRE PROTECTION: BUILDING F, SECOND FLOOR PLAN**  
F1.2 SCALE: 1/8" = 1'-0"



FIRE DEPT. CONN.  
P.V. REFER TO SITE UTILITY DRWGS. FOR EXACT LOCATION  
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CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

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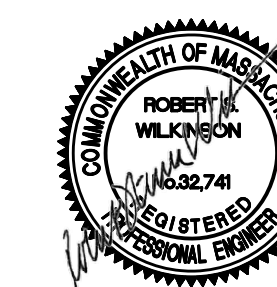
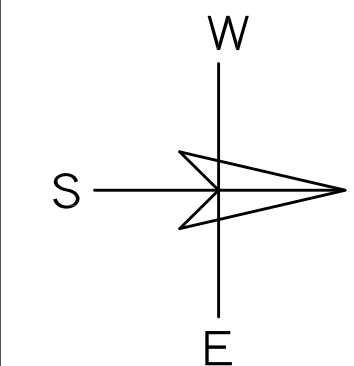
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SHEET CONTENTS:  
 FIRE PROTECTION:  
 BUILDING F  
 THIRD FLOOR PLAN

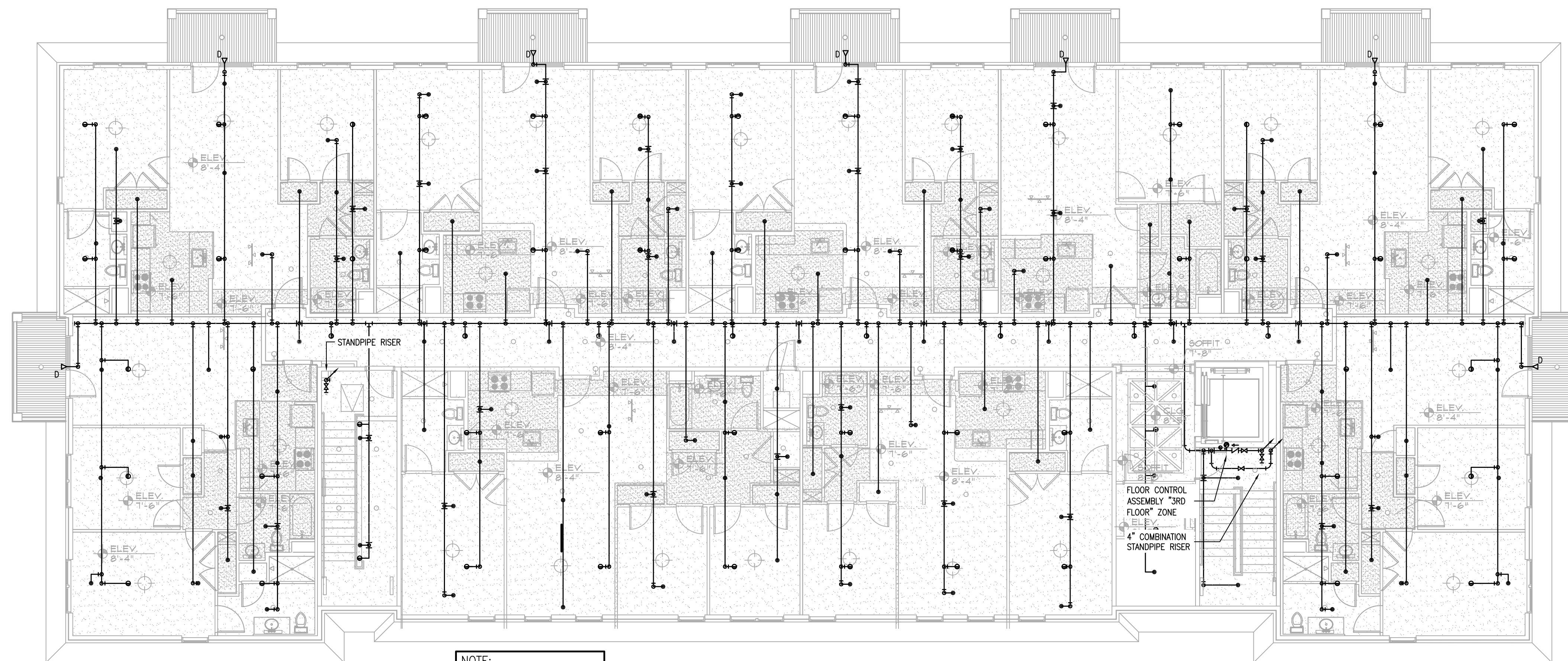
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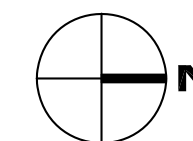
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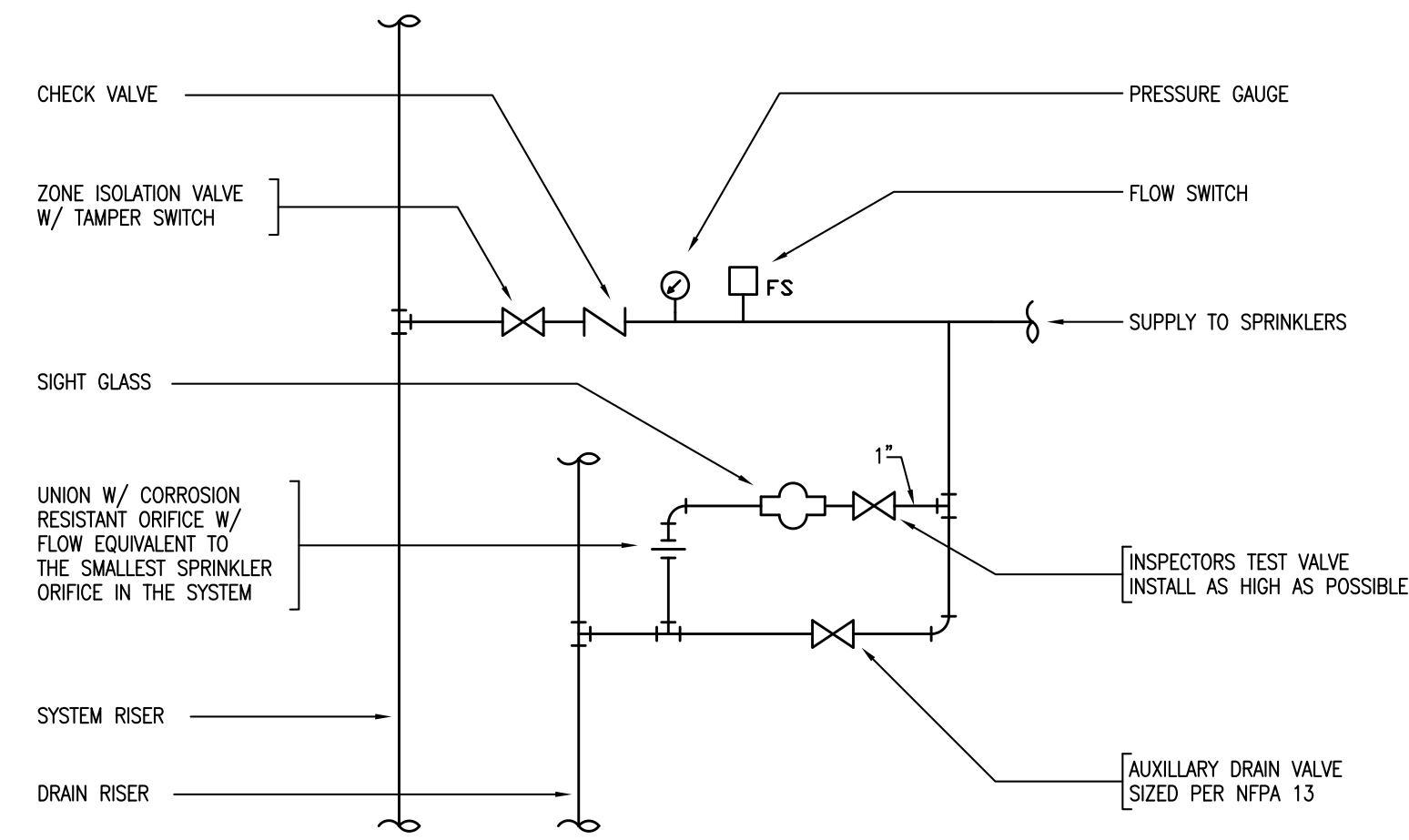
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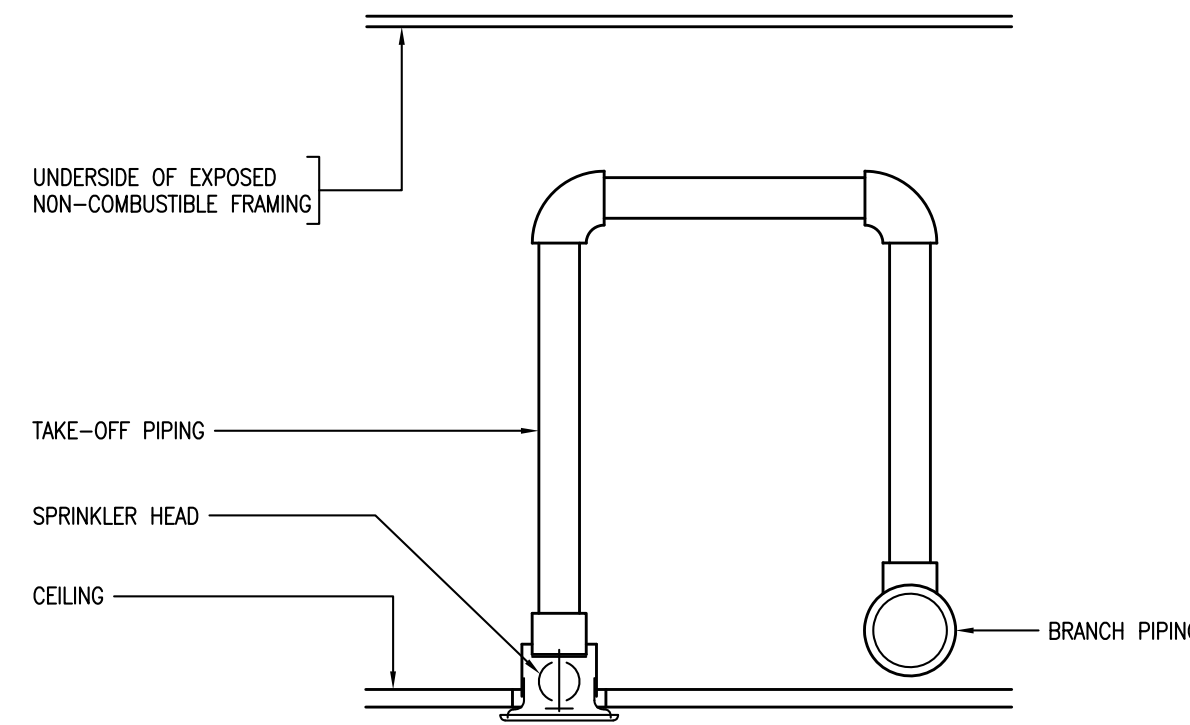
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**1 FIRE PROTECTION: BUILDING F, THIRD FLOOR PLAN**  
**F1.3** SCALE: 1/8" = 1'-0"

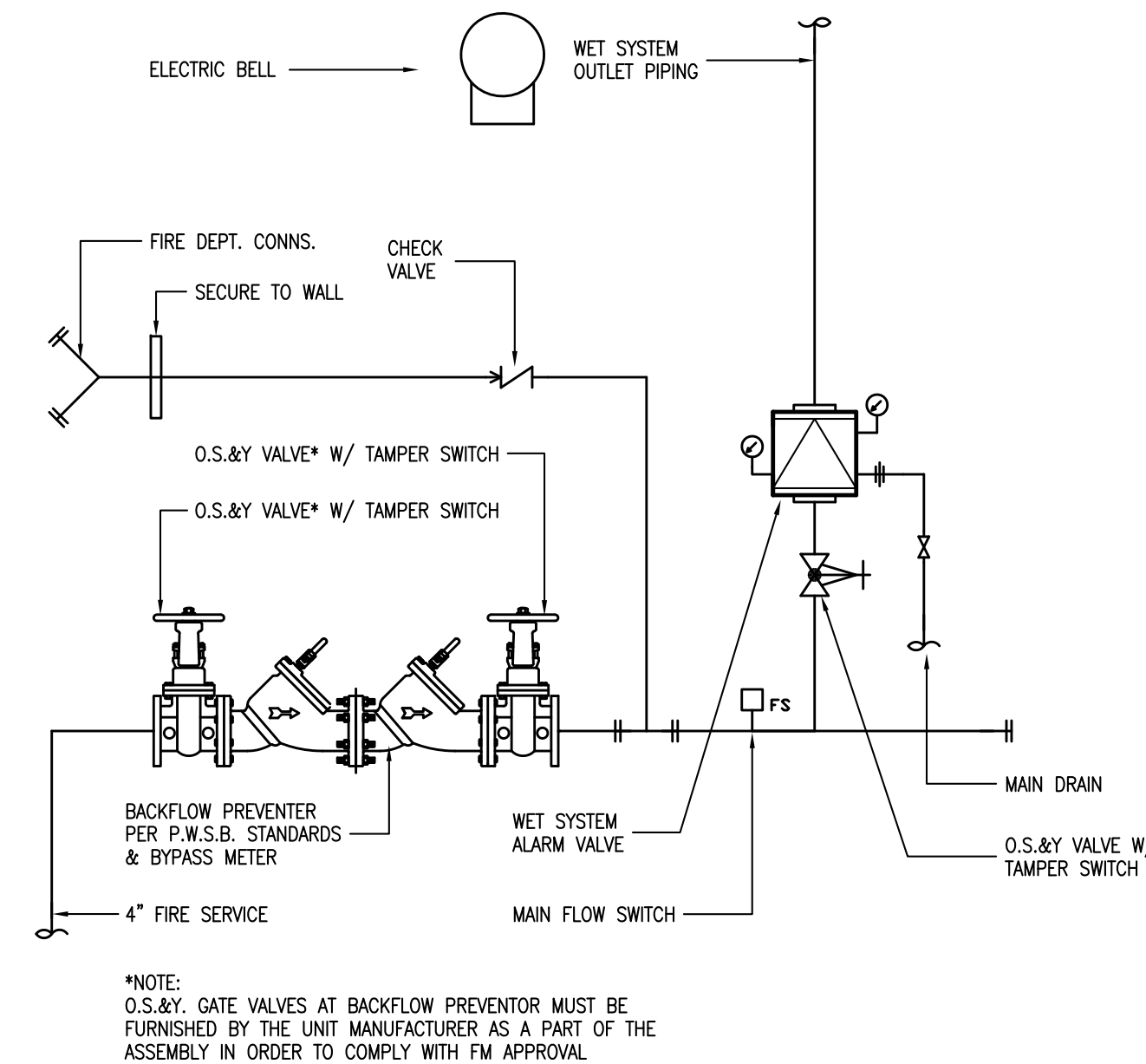




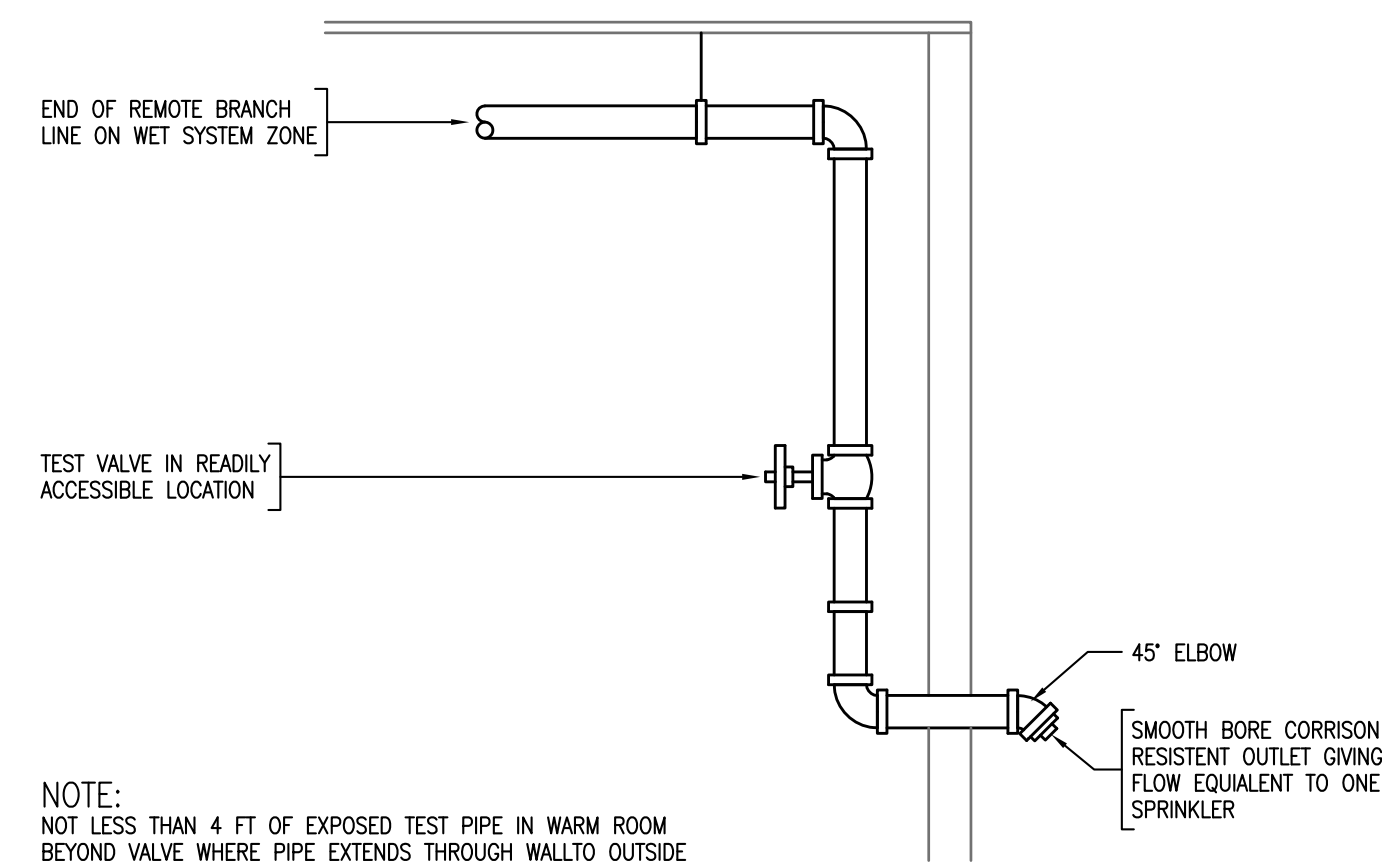
**1** TYPICAL FLOOR CONTROL VALVE DETAIL  
F5.0 SCALE: NONE



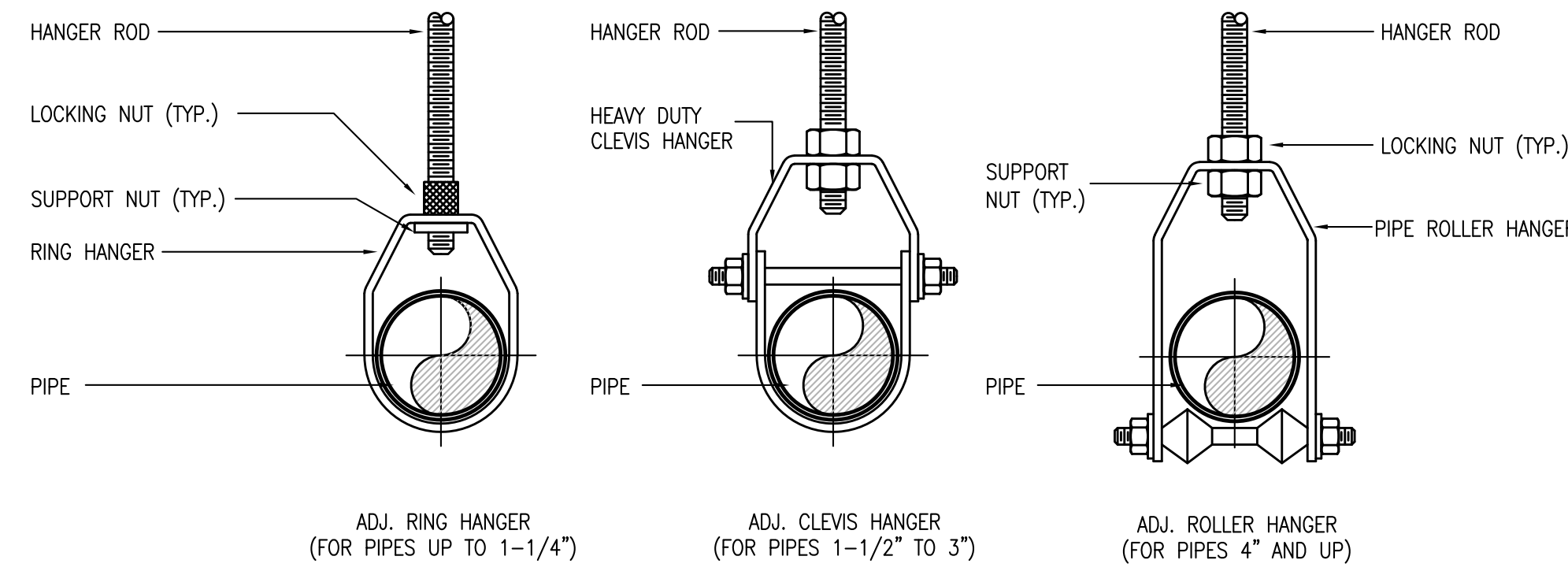
**2** DETAIL @ BRANCH TAKE-OFF  
F5.0 SCALE: NONE



**3** TYPICAL SERVICE ENTRANCE DETAIL: (WET & DRY)  
F5.0 SCALE: NONE



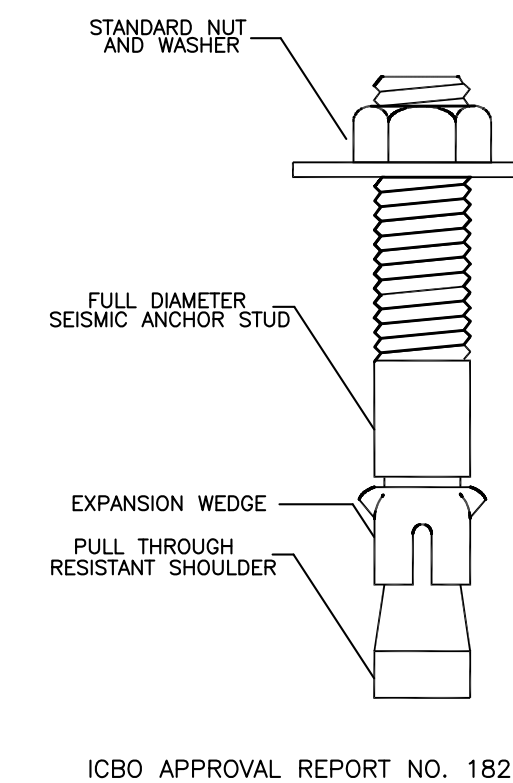
**4** INSPECTOR'S TEST DETAIL - WET SYSTEM  
F5.0 SCALE: NONE



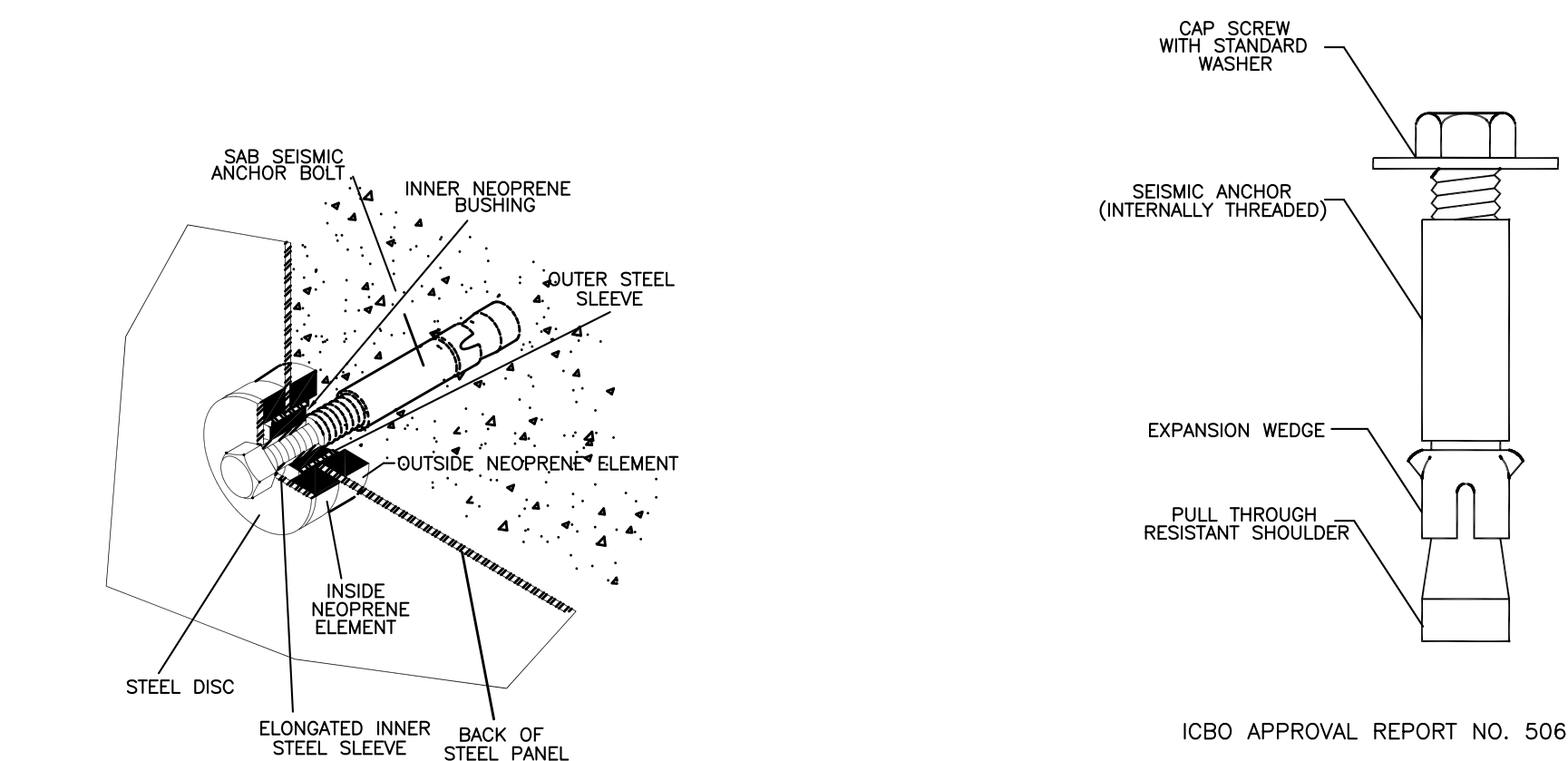
HANGER ROD SCHEDULE			
PIPE SIZE	ROD SIZE	PIPE SIZE	ROD SIZE
UP TO 2"	3/8"	6" - 8"	3/4"
2-1/2" - 3"	1/2"	8" - 10"	7/8"
4" - 5"	5/8"	12" - 14"	1"

INSULATION INSERTS	
PIPE SIZE	LENGTH
UP TO 2-1/2"	10"
3" TO 6"	12"
8" TO 10"	16"
12" AND OVER	22"

**5** TYPICAL PIPE HANGER DETAILS: UNINSULATED PIPING  
F5.0 SCALE: NONE

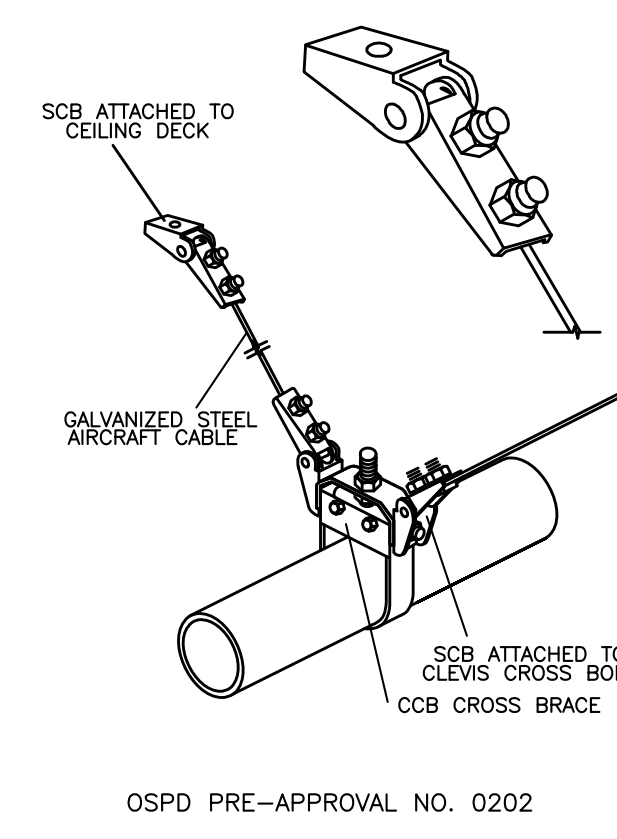


**6** ANCHOR STUD, LAGED TYPE  
F5.0 SCALE: NONE

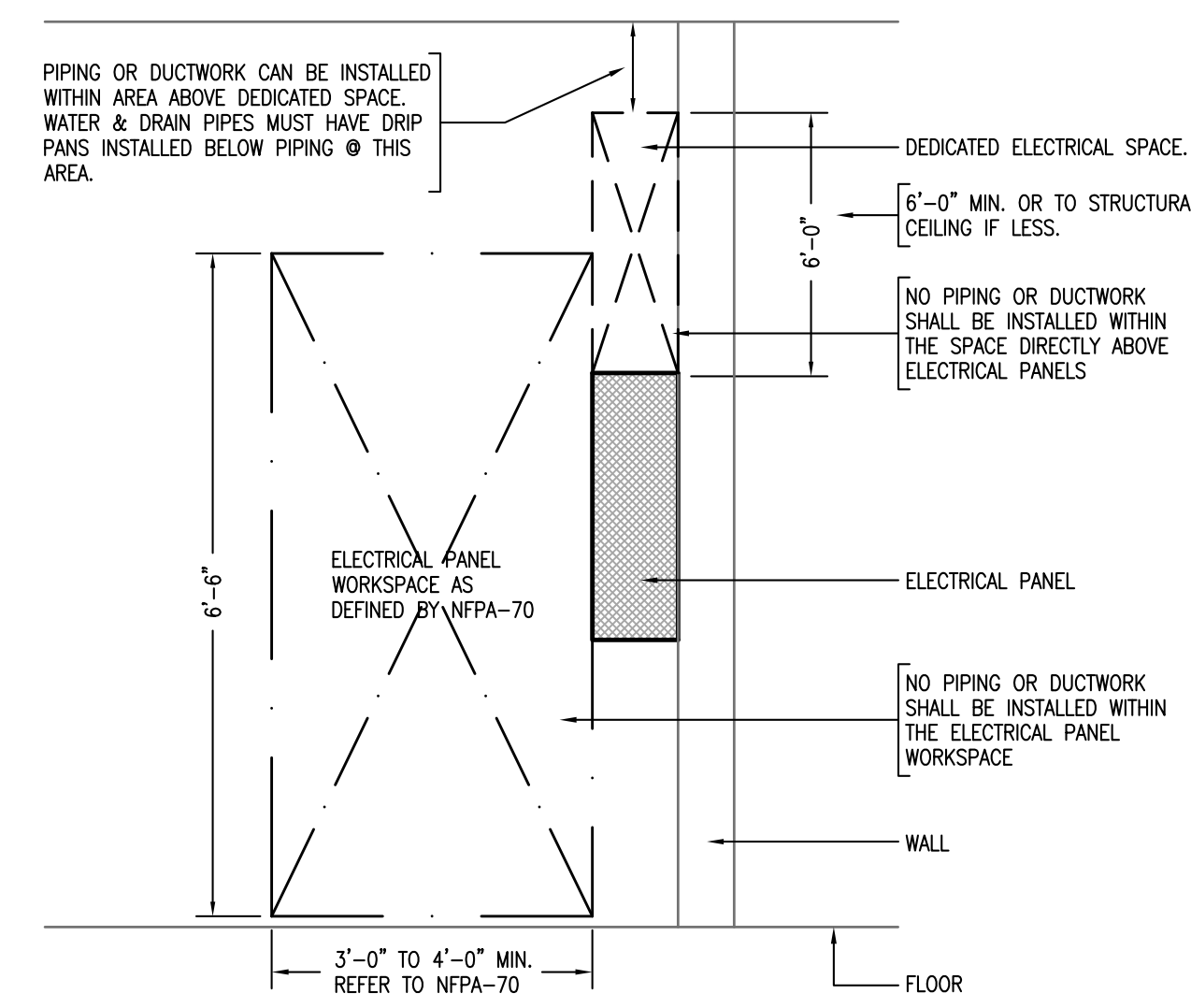


**7** NEOPRENE BUSHING  
F5.0 SCALE: NONE

**8** ANCHOR STUD, LAGED TYPE  
F5.0 SCALE: NONE



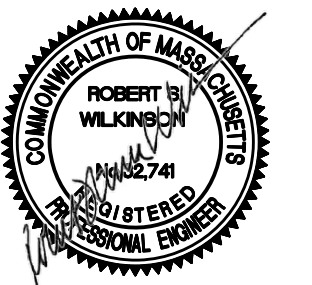
**9** CABLE RESTRAINT  
F5.0 SCALE: NONE



**10** ELECTRICAL SYSTEMS COORD. DETAIL  
F5.0 SCALE: NONE

CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

Proposed Design for:  
**Woodland Cove**  
Phase I  
Buildings E, F, & COMMUNITY BUILDING  
3102 Cranberry Highway  
Wareham, MA 02532

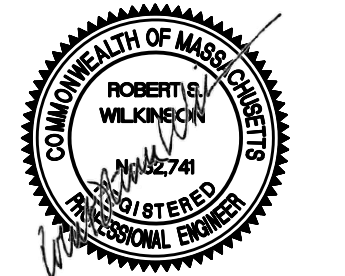


SHEET CONTENTS:  
FIRE PROTECTION:  
BUILDINGS E & F  
DETAILS

PROJECT # 1420

DATE: 9/22/2020  
REVISED DATE:  
REVISED: 02/16/2021

**F5.0**



SHEET CONTENTS:  
 FIRE PROTECTION:  
 BUILDINGS E & F  
 DETAILS  
 FIRE SAFING

PROJECT # 1420  
 DATE: 9/22/2020  
 REVISED DATE:  
 REVISED: 02/16/2021

**F5.1**

CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

System No. HLT-1054  
 F Ratings - 1 and 2 Hr (See Items 1 and 3)  
 T Rating - 0 Hr  
 L Rating As Ambient - Less Than 1 CFM/sq ft  
 I Rating As 400 F - 4 CFM/sq ft

**1**  
 F5.1 SCALE: NONE (BASED ON HILTI #W-L-1054)

**1. Wall Assembly** - The 1 or 2 hr fire-rated gypsum wallboard shall be constructed of the materials and in the manner specified in the individual UBOO or U400 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 nominal 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.  
 B. Gypsum Board - Min 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual UBOO or U400 Series Design in the UL Fire Resistance Directory. Max. diam. of opening is 14-1/2 in. for wood stud walls. Max. diam. of opening is 10 in. for steel stud walls. The hourly F and T Ratings of the freestop system is equal to the hourly fire rating of the wall assembly in which it is installed.

**2. Through Penetrants** - One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the freestop system. The annular space shall be min 0 in. to max 2-1/4 in. Pipe may be installed with continuous point contact. Pipes, conduit or tubing may be installed at an angle not greater than 45 degrees from perpendicular. Pipes, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:  
 A. Steel Pipe - Nom 3/4 in. diam (or smaller) Schedule 40 (or heavier) steel pipe.  
 B. Iron Pipe - Nom 3/4 in. diam (or smaller) cast or ductile iron pipe.  
 C. Conduit - Nom 4 in. diam (or smaller) steel electrical metallic tubing or 6 in. diam steel conduit.  
 D. Copper Tubing - Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing.  
 E. Copper Pipe - Nom 6 in. diam (or smaller) regular (or heavier) copper pipe.  
**3. Fill Void or Conduit Material** - Sealant - Min 5/8 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point or continuous contact locations between pipe and wall, a min 1/2 in. diam bead of fill material shall be applied at the pipe wall interface on both surfaces of wall.  
 HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC. - FS-One Sealant  
 \*Bearing the UL Classification Mark.

System No. HLT-5096  
 F Ratings - 1 and 2 Hr (See Items 1, 3 and 5)  
 T Ratings - 1/2 and 1 Hr (See Items 1, 3 and 5)

**2**  
 F5.1 SCALE: NONE (BASED ON HILTI #W-L-5096)

**1. Wall Assembly** - The 1 or 2 hr fire-rated wallboard shall be constructed of the materials and in the manner specified in the individual UBOO or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:  
 A. Studs - Wall framing shall consist of either wood studs or steel channel studs. Wood studs to consist of nominal 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.  
 B. Gypsum Board - Nom 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual UBOO or U400 Series Design in the Fire Resistance Directory. Max. diam. of opening is 14-1/2 in. for wood stud walls. Max. diam. of opening is 10 in. for steel stud walls. The hourly F and T Ratings of the freestop system is equal to the hourly fire rating of the wall assembly in which it is installed.

**2. Steel Sleeve** - One metallic pipe or tubing installed concentrically or eccentrically within the freestop system. Pipe or tube to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes or tubes may be used:  
 A. Steel Pipe - Nom 10 in. diam (or smaller) Schedule 40 (or heavier) steel pipe. When steel pipe is used, T Rating is 1/2 and 1 hr when installed in 1 and 2 hr rated walls, respectively.  
 B. Copper Tube - Nom 4 in. diam (or smaller) Type L (or heavier) copper tube. When copper tube is used, T Rating is 1/2 hr.  
 C. Copper Pipe - Nom 4 in. diam (or smaller) Regular (or heavier) copper pipe. When copper pipe is used, T Rating is 1 hr.

**4. Pipe Covering** - Nom 2 in. thick hollow cylindrical heavy density (min 35 pcf) glass floor units, jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied ESL tape. Transverse joints secured with metal fasteners or with ball tape applied with the product. See Pipe and Equipment Covering-Materials (BERG) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used. The annular space of the freestop system is dependent on the type and size of the through penetrant as shown in the table below:  

Through Penetrant	Annular Space	Type	Diam. in.	Min. in.	Max. in.
A	1/2	A	10	1/2	14-1/2
B or C	4	B	4	3/8	14-1/2

**5. Fill Void or Conduit Material** - Sealant - Min 5/8 in. or 1/4 in. thickness of fill material applied within the annulus, flush with both surfaces of wall assembly. A generous bead of fill material also applied within the annulus of the top plate, flush with bottom surface of lower top plate.  
 HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC. - FS-One Sealant  
 \*Bearing the UL Classification Mark.

System No. F-C-1009  
 F Ratings - 1 and 2 Hr (See Item 1)  
 T Ratings - 1 and 2 Hr (See Item 1)  
 L Rating As Ambient - Less Than 1 CFM/sq ft  
 I Rating As 400 F - 4 CFM/sq ft

**3**  
 F5.1 SCALE: NONE (WITHIN CHASE WALL) (BASED ON HILTI #F-C-1009)

**1. Floor-Ceiling Assembly** - The 1 or 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 F Rating of the freestop system is equal to the rating of the floor-ceiling and wall assemblies. 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 Material\* as specified in the individual Floor-Ceiling Design. Max. diam. of floor opening is 5 in.  
 B. Wood 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. Furring Channels - (Not Show) (As required) Resilient galvanized steel furring installed in accordance with the manner specified in the individual L500 Series Design 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. Max. diam. of opening is 5 in.  
 E. Copper Pipe - Nom 4 in. diam (or smaller) Regular (or heavier) copper pipe.  
**2. Chase Wall** - The through penetrant (Item 3) shall be routed through a 1 or 2 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 UBOO 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, lightly batted.  
 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, lightly batted. Max. diam. of opening is 5 in.  
 D. Gypsum Board\* - Thickness, type, number of layers and fasteners shall be as specified in individual Wall and Partition Design.  
**3. Through Penetrants** - One metallic pipe, conduit or tubing to be installed within the freestop system. Pipes, conduit or tubing to be rigidly supported on both sides of floor assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:  
 A. Steel Pipe - Nom 4 in. diam (or smaller) Schedule 40 (or heavier) steel pipe.  
 B. Iron Pipe - Nom 4 in. diam (or smaller) cast or ductile iron pipe.  
 C. Conduit - Nom 4 in. diam (or smaller) steel electrical metallic tubing or steel conduit.  
 D. Copper Tubing - Nom 4 in. diam (or smaller) Type L (or heavier) copper tubing.  
 E. Copper Pipe - Nom 4 in. diam (or smaller) Regular (or heavier) copper pipe.  
**4. Fill Void or Conduit Material** - Sealant - Min 5/8 in. thickness of fill material applied within the annulus, flush with top surface of floor. A generous bead of fill material also applied within the annulus of the top plate, flush with bottom surface of lower top plate.  
 HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC. - CPK05, CPK08 or FS-One Sealant  
 \*Bearing the UL Classification Mark.  
 (Note: L Ratings apply only when FS-One Sealant is used.)

System No. F-C-1059  
 F Ratings - 1 and 2 Hr  
 T Ratings - 0 and 1/2 Hr

**4**  
 F5.1 SCALE: NONE (OUTSIDE CHASE WALL) (BASED ON HILTI #F-C-1059)

**1. Floor-Ceiling Assembly** - The 1 or 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 F Rating of the freestop system is equal to the rating of the floor-ceiling and wall assemblies. 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 Material\* as specified in the individual Floor-Ceiling Design. Max. diam. of floor opening shall be 7-5/8 in.  
 B. Wood 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\* - Thickness, type, number of layers and fasteners shall be as specified in the individual Floor-Ceiling Design. Max. diam. of opening shall be 1 in. larger than the outside diam of pipe (Item 2).  
 D. Furring Channels - (Not Show) (As required) Resilient galvanized steel furring installed in accordance with the manner specified in the individual L500 Series Design in the Fire Resistance Directory.  
**2. Chase Wall** - (Not Show, Optional) - The through penetrant (Item 2) may be routed through a 1 or 2 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 UBOO 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. lumber 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, lightly batted.  
 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, lightly batted. Max. diam. of opening is 7-5/8 in.  
 D. Gypsum Board\* - Thickness, type, number of layers and fasteners shall be as specified in individual Wall and Partition Design.  
**3. Through Penetrants** - One metallic pipe, conduit or tubing to be installed concentrically or eccentrically within the freestop system. Annular space between pipe or conduit and edge of opening to be min 1/4 in. and max 3/4 in. Pipe, tubing or conduit to be rigidly supported on both sides of floor-ceiling assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:  
 A. Steel Pipe - Nom 6 in. diam (or smaller) Schedule 40 (or heavier) steel pipe.  
 B. Iron Pipe - Nom 6 in. diam (or smaller) cast or ductile iron pipe.  
 C. Conduit - Nom 4 in. diam (or smaller) steel electrical metallic tubing or nom 6 in. diam (or smaller) steel conduit.  
**4. Fill Void or Conduit Material** - Sealant - Min 5/8 in. or 1/4 in. thickness of sealant applied within annular space, flush with the bottom surface of gypsum wallboard or lower top plate for 1 and 2 hr floors respectively. Min. 3/4 in. thickness of sealant applied within annular space, flush with top surface of floor.  
 HILTI INC. - FS-One Sealant  
 \*Bearing the UL Classification Mark.

System No. F-C-1001  
 F Ratings - 1 and 2 Hr (See Item 1)  
 T Ratings - 1 and 2 Hr (See Item 1)  
 L Rating As Ambient - Less Than 1 CFM/sq ft  
 I Rating As 400 F - 4 CFM/sq ft

**5**  
 F5.1 SCALE: SCALE (MAX. OPENING DIAMETER 5")

**1. Floor-Ceiling Assembly** - The 1 or 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 F Rating of the freestop system is equal to the rating of the floor-ceiling and wall assemblies. 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 Material\* as specified in the individual Floor-Ceiling Design. Max. diam. of opening shall be min 1 in. larger than diam of pipe. As an alternate, the opening may be square-cut with a max dimension 1 in. greater than the diam of the pipe.  
 B. Wood 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. Furring Channels - (Not Show) (As required) Resilient galvanized steel furring installed in accordance with the manner specified in the individual L500 Series Design 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. Max. diam. of opening to be max 1 in. larger than diam of pipe. As an alternate, the opening may be square-cut with a max dimension 1 in. greater than the diam of the pipe. Plates may be discontinuous over opening, terminating at two opposing edges of opening. Max. length of discontinuity to be 1 in. greater than diam of through penetrant.  
 E. Top Plate - The double top plate shall consist of two nom 2 by 4 in. or two sets of parallel 2 by 4 in. lumber plates, lightly batted. Max. diam. of opening to be max 1 in. larger than diam of pipe. As an alternate, the opening may be square-cut with a max dimension 1 in. greater than the diam of the pipe. Plates may be discontinuous over opening, terminating at two opposing edges of opening. Max. length of discontinuity to be 1 in. greater than diam of through penetrant.  
 F. Steel Flexible Metal Conduit - (Not Show) - Nom 2 in. diam (or smaller) steel flexible metal conduit. See Flexible Metal Conduit (DMG) category in the Electrical Construction Materials Directory for names of manufacturers.  
**2. Chase Wall** - The through penetrant (Item 3) shall be routed through a 1 or 2 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 UBOO 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., 2 by 6 in. or double nom 2 by 4 in. lumber studs. Nom 2 by 4 in. studs are allowed for through-penetrants (Item 3) not exceeding nom 2 in. diam.  
**3. Through Penetrants** - One metallic pipe, conduit or tubing to be installed within the freestop system. Pipes, conduit or tubing to be rigidly supported on both sides of floor assembly. The annular space within the freestop system shall be min 0 in. (point contact) to max 1 in. The following types and sizes of metallic pipes or conduits may be used:  
 A. Steel Pipe - Nom 4 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.  
 B. Iron Pipe - Nom 4 in. diam (or smaller) cast or ductile iron pipe.  
 C. Conduit - Nom 4 in. diam (or smaller) steel electrical metallic tubing or steel conduit.  
 D. Copper Tubing - Nom 4 in. diam (or smaller) Type L (or heavier) copper tubing.  
 E. Copper Pipe - Nom 4 in. diam (or smaller) Regular (or heavier) copper pipe.  
**4. Fill Void or Conduit Material** - Sealant - Min 3/4 in. thickness of fill material applied within the annulus, flush with the bottom surface of gypsum wallboard or lower top plate for 1 and 2 hr floors respectively. Min. 3/4 in. thickness of sealant applied within annular space, flush with top surface of floor.  
 HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC. - CPK05, CPK08 or FS-One Sealant. (Note: L Ratings apply only when FS-One Sealant is used.)  
 \*Bearing the UL Classification Mark.

System No. F-C-1059  
 F Ratings - 1 and 2 Hr  
 T Ratings - 0 and 1/2 Hr

**6**  
 F5.1 SCALE: SCALE (MAX. OPENING DIAMETER 7-5/8")

**1. Floor-Ceiling Assembly** - The 1 or 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 F Rating of the freestop system is equal to the rating of the floor-ceiling and wall assemblies. 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 Material\* as specified in the individual Floor-Ceiling Design. Max. diam. of opening shall be 7-5/8 in.  
 B. Wood 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\* - Thickness, type, number of layers and fasteners shall be as specified in the individual Floor-Ceiling Design. Max. diam. of opening shall be 1 in. larger than the outside diam of pipe (Item 2).  
 D. Furring Channels - (Not Show) (As required) Resilient galvanized steel furring installed in accordance with the manner specified in the individual L500 Series Design in the Fire Resistance Directory.  
**2. Chase Wall** - (Not Show, Optional) - The through penetrant (Item 2) may be routed through a 1 or 2 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 UBOO 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. lumber 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, lightly batted.  
 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, lightly batted. Max. diam. of opening is 7-5/8 in.  
 D. Gypsum Board\* - Thickness, type, number of layers and fasteners shall be as specified in individual Wall and Partition Design.  
**3. Through Penetrants** - One metallic pipe, conduit or tubing to be installed concentrically or eccentrically within the freestop system. Annular space between pipe or conduit and edge of opening to be min 1/4 in. and max 3/4 in. Pipe, tubing or conduit to be rigidly supported on both sides of floor-ceiling assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:  
 A. Steel Pipe - Nom 6 in. diam (or smaller) Schedule 40 (or heavier) steel pipe.  
 B. Iron Pipe - Nom 6 in. diam (or smaller) cast or ductile iron pipe.  
 C. Conduit - Nom 4 in. diam (or smaller) steel electrical metallic tubing or steel conduit.  
 D. Copper Tubing - Nom 4 in. diam (or smaller) Type L (or heavier) copper tubing.  
 E. Copper Pipe - Nom 4 in. diam (or smaller) Regular (or heavier) copper pipe.  
**4. Fill Void or Conduit Material** - Sealant - Min 5/8 in. or 1/4 in. thickness of sealant applied within annular space, flush with the bottom surface of gypsum wallboard or lower top plate for 1 and 2 hr floors respectively. Min. 3/4 in. thickness of sealant applied within annular space, flush with top surface of floor.  
 HILTI INC. - FS-One Sealant  
 \*Bearing the UL Classification Mark.

**SYSTEM FLOW REQUIREMENTS**

ZONE	OCCUPANCY TYPE	HAZARD CLASSIFICATION	SPRINKLER DEMAND		STANDPIPE DEMAND		SPRINKLER DENSITY		NOTES
			SPRINKLERS	HOSE STREAMS	FLOW RATE	MIN. OUTLET PRESSURE	FLOW RATE	AREA (SF)	
1ST FLOOR - GENERAL	STORAGE	ORDINARY GROUP 2	300 GPM	250 GPM	N/A	N/A	0.20 GPM/SF	1500 SF	PER NFPA 13
1ST FLOOR	RESIDENTIAL	LIGHT	900 *	100	N/A	N/A	0.10 GPM/SF	900*	PER NFPA 13, RESIDENTIAL CALC
2ND FLOOR	RESIDENTIAL	LIGHT	900 *	100	N/A	N/A	0.10 GPM/SF	900*	PER NFPA 13, RESIDENTIAL CALC
3RD FLOOR	RESIDENTIAL	LIGHT	900 *	100	N/A	N/A	0.10 GPM/SF	900*	PER NFPA 13, RESIDENTIAL CALC
4TH FLOOR	RESIDENTIAL	LIGHT	900 *	100	N/A	N/A	0.10 GPM/SF	900*	PER NFPA 13, RESIDENTIAL CALC

\*NOTE: SPRINKLER DENSITY AND AREA TO BE VERIFIED WITH OWNER'S INSURING AGENT.

**WATER SUPPLY PARAMETERS, HYDRANT FLOW TEST DATA**

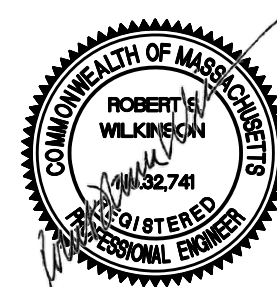
FLOW HYDRANT				PRESSURE HYDRANT					
HYDRANT #	LOCATION	PITOT PRESSURE	FLOW RATE	HYDRANT #	LOCATION	PRESSURE		DATE	NOTES
						STATIC	RESIDUAL		
-	-	-	-	-	-	-	-	-	1, 2

1. EXISTING FLOW TEST DATA WAS UNAVAILABLE FROM THE MUNICIPALITIES AT THE TIME OF DESIGN.  
2. CONTRACTOR TO PERFORM A FLOW TEST WITHIN 6 MONTHS OF START OF CONSTRUCTION RESULTS FOR USE IN PREPARATION OF HYDRAULIC CALCULATIONS

**SPRINKLER HEAD SCHEDULE**

SYMBOL	DESCRIPTION	TEMP	ORIFICE	K FACTOR	FINISH	MODEL	NOTES
●	FLUSH PENDANT	155° F	1/2"	4.9	CHROME *	SERIES RF-II	TYCO QUICK RESPONSE
○	UPRIGHT	165° F	1/2"	5.6	BRASS *	SERIES TY-FRC	TYCO QUICK RESPONSE
○ D	DRY UPRIGHT	165° F	1/2"	5.6	BRASS *	SERIES TY-FRC	TYCO QUICK RESPONSE
● D	DRY PENDANT	155° F	1/2"	5.6	CHROME *	TY3539	TYCO QUICK RESPONSE
●	ABOVE CEILING	155° F	1/2"	5.6	CHROME *	TY3539	TYCO QUICK RESPONSE
○ D	DRY ABOVE CEILING	155° F	1/2"	5.6	CHROME *	TY3539	TYCO QUICK RESPONSE
▽	SIDEWALL	155° F	1/2"	5.8	WHITE *	SERIES LF-II	TYCO RAPID RESPONSE
▽ D	DRY SIDEWALL	155° F	1/2"	5.8	WHITE *	SERIES LF-II	TYCO RAPID RESPONSE

\* COORDINATE COLOR WITH ARCHITECT PRIOR TO START OF WORK.



SHEET CONTENTS:  
FIRE PROTECTION:  
BUILDINGS E & F  
SCHEDULES

PROJECT # 1420

DATE: 9/22/2020  
REVISED DATE:  
▲ REVISED: 02/16/2021

**F8.0**

CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

PIPING & SYMBOLS	
	NEW COLD WATER, ABOVE GRADE
	NEW HOT WATER, ABOVE GRADE
	NEW HOT WATER RECIRCULATING, ABOVE GRADE
	NEW SANITARY WASTE, ABOVE GRADE
	NEW SANITARY WASTE, BELOW GRADE
	NEW SANITARY VENT, ABOVE GRADE
	NEW SANITARY VENT, BELOW GRADE
	NEW STORM DRAIN, ABOVE GRADE
	NEW STORM DRAIN, BELOW GRADE
	NEW CONDENSATE DRAIN PIPING
	NEW PUMP DISCHARGE PIPING
	NEW NATURAL GAS PIPING
	NEW GATE VALVE
	NEW BALL VALVE
	NEW CHECK VALVE
	NEW PRESSURE REDUCING VALVE
	NEW MIXING VALVE
	NEW UNION
	NEW PIPING RISER/TAKEOFF UP
	NEW PIPING RISER/TAKEOFF DOWN
	NEW CLEANOUT
	NEW THERMOMETER
	NEW CAP
	SANITARY WASTE
	SANITARY VENT
	STORM DRAIN
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC HOT WATER RECIRCULATING
	FIXTURE NUMBER
	SECTION NUMBER SECTION DESIGNATION SHEET NUMBER

ABBREVIATIONS			
AC	AIR CONDITIONING	EWC	ELECTRIC WATER COOLER
AD	ACCESS DOOR OR AUTOMATIC DAMPER	EWI	ENTERING WATER TEMPERATURE
AFF	ABOVE FINISHED FLOOR	EXH	EXHAUST
AFS	AIR FLOW MEASURING STATION	EXIST	EXISTING
AHU	AIR HANDLING UNIT	FA	FRESH AIR
AI	ANALOG INPUT	FACP	FIRE ALARM CONTROL PANEL
AMD	AIRFLOW MEASURING DEVICE	FAS	FIRE ALARM SYSTEM
AO	ANALOG OUTPUT	FC	FAN COIL UNIT
AP	ACCESS PANEL	FCU	FAN COIL UNIT
APD	AIR PRESSURE DROP	FCO	FLOOR CLEANOUT
ATC	AUTOMATIC CONTROL CONTRACTOR	'F	Fahrenheit
ATS	AUTOMATIC TRANSFER SWITCH	FD	FLOOR DRAIN
AUX	AUXILIARY	F/D	FIRE DAMPER
BAS	BUILDING AUTOMATION SYSTEM	FDC	FIRE DEPARTMENT CONNECTION
BD	BLOWDOWN	FH	FUME HOOD
BDD	BACKDRAFT DAMPER	FLA	FULL LOAD AMPS
BF	BOILER FEED	FLEX	FLEXIBLE
BFP	BACKFLOW PREVENTER	FLG	FLANGED
BHP	BRAKE HORSEPOWER	FLR	FLOOR
BLDG	BUILDING	FO	FAIL OPEN OR FUEL OIL
BLR	BOILER	FOD	FUEL OIL DISCHARGE
BO	BLOW OFF	FOR	FUEL OIL RETURN
BOD	BOTTOM OF DUCT	FOS	FUEL OIL SUPPLY
BOP	BOTTOM OF PIPE	FPF	FINS PER FOOT
BOS	BOTTOM OF STEEL / STRUCTURE	FPM	FEET PER MINUTE
BOT	BOTTOM	FPS	FEET PER SECOND
BPD	BY-PASS DAMPER	FS	FLOW SWITCH
BTU	BRITISH THERMAL UNIT	FT	FLOW TRANSMITTER OR FEET
BTUH	BRITISH THERMAL UNITS PER HOUR	FTR	FINNED TUBE RADIATION
C	CENTER LINE	FUT	FUTURE
CA	COMPRESSED AIR	G	NATURAL GAS (PIPING)
CAV	CONSTANT AIR VOLUME	GA	GAUGE
CC	COMPRESSOR CONDENSER	GAL	GALLON
CD	CONDENSATE DRAIN	GC	GENERAL CONTRACTOR
CDR	CONDENSER WATER RETURN	GEN	GENERATOR
CDS	CONDENSER WATER SUPPLY	GPH	GALLONS PER HOUR
'C	CENTIGRADE	GPM	GALLONS PER MINUTE
CF	CHEMICAL FEED	GWR	GLYCOL WATER RETURN
CFM	CUBIC FEET PER MINUTE	GWS	GLYCOL WATER SUPPLY
CHW	PRIMARY CHILLED WATER	H	HUMIDISTAT
CHWR	CHILLED WATER RETURN	HB	HOSE BIB
CHWS	CHILLED WATER SUPPLY	HC	HEATING COIL
CLG	CEILING	HD	HEAD
CO	CLEANOUT	HEPA	HIGH EFFICIENCY PARTICULATE ARRESTOR
COMB	COMBINATION	HI	HIGH
CONN	CONNECTION	HGT	HEIGHT
CPU	CENTRAL PROCESSING UNIT	HL	HIGH LIMIT
CR	CURRENT RELAY	HOA	HAND OFF AUTOMATIC SELECTOR
CS	CURRENT SWITCH	HOR	HORIZONTAL
CSS	CLEAN STEAM SUPPLY	HP	HORSEPOWER
CSCR	CLEAN STEAM CONDENSATE RETURN	HPCR	HIGH PRESSURE CONDENSATE RETURN
CJH	CABINET UNIT HEATER	HPS	HIGH PRESSURE STEAM SUPPLY
CV	CONSTANT VOLUME OR CONTROL VALVE	HR	HOUR OR HUMIDITY RATIO
CW	COLD WATER	HS	HUMIDITY SENSOR
D	DRAIN	HT	HUMIDITY TRANSDUCER
DA	DIRECT ACTING	HTHWR	HIGH TEMPERATURE HOT WATER RETURN
DB	DRY BULB	HTHWS	HIGH TEMPERATURE HOT WATER SUPPLY
DCW	DOMESTIC COLD WATER	HUM	HUMIDITY
DDC	DIRECT DIGITAL CONTROL	HVAC	HEATING, VENTILATING, AIR CONDITIONING
DEG	DEGREE	HV	HEATING & VENTILATING
DHW	DOMESTIC HOT WATER	HW	HOT WATER
DI	DIGITAL INPUT	HWR	HOT WATER RETURN / RECIRCULATION
DIA	DIAMETER	HWS	HOT WATER SUPPLY
DL	DOOR LOUVER	IA	INSTRUMENT AIR
DN	DOWN	I&C	INSTRUMENT AND CONTROL
DO	DIGITAL OUTPUT	ID	INSIDE DIAMETER
DP	DIFFERENTIAL PRESSURE	IFB	INTERNAL FACE AND BYPASS
DPT	DIFFERENTIAL PRESSURE TRANSMITTER	IN	INCHES
DR	DRAIN	IN HG	INCHES MERCURY
DT	DIFFERENTIAL TEMPERATURE	INS	INSULATION
DWG	DRAWING	IN WG	INCHES WATER GAUGE
DX	DIRECT EXPANSION	INV	INVERT
EA	EXHAUST AIR	INV EL	INVERT ELEVATION
EAD	EXHAUST AIR DAMPER	I/O	INPUT/ OUTPUT
EAT	ENTERING AIR TEMPERATURE	IP	CURRENT TO PNEUMATIC
EC	ELECTRICAL CONTRACTOR	ISP	INTERNAL STATIC PRESSURE
EDB	ENTERING DRY BULB TEMPERATURE	IW	INDIRECT WASTE
EF-#	EXHAUST FAN	KW	KILOWATT
EFF	EFFICIENCY	L	LENGTH
EG	EXHAUST GRILLE	LAN	LOCAL AREA NETWORK
EL	ELEVATION	LAT	LEAVING AIR TEMPERATURE
EMS	ELECTRIC MOTOR STARTER	LAV	LAVATORY
ENT	ENTERING	LB/HR	POUNDS PER HOUR
EP	ELECTRIC-PNEUMATIC	LBS	POUNDS
ESP	EXTERNAL STATIC PRESSURE	LD	LINEAR DIFFUSER
ET	EXPANSION TANK	LED	LIGHT EMITTING DIODE
EQUIP	EQUIPMENT	LL	LOW LIMIT
EWB	ENTERING WET BULB TEMPERATURE	LO	LOW
LP	LOW PRESSURE	MC	MECHANICAL CONTRACTOR
LPCR	LOW PRESSURE CONDENSATE RETURN	MCA	MAX CIRCUIT AMPS
LPS	LOW PRESSURE STEAM SUPPLY	MCC	MOTOR CONTROL CENTER
LRA	LOCKED ROTOR AMPS	M/D	MOTORIZED DAMPER
LS	LIMIT SWITCH	MECH	MECHANICAL
LWT	LEAVING WATER TEMPERATURE	MFR	MANUFACTURER
MAN	MANUAL	MGS	MANUAL GRADUAL SWITCH
MAT	MIXED AIR TEMPERATURE	MIN	MINIMUM
MAX	MAXIMUM	MOD	MOTOR OPERATED DAMPER
MBH	1000 BTU PER HOUR	MPCR	MEDIUM PRESSURE CONDENSATE RETURN
MC	MECHANICAL CONTRACTOR	MPS	MEDIUM PRESSURE STEAM SUPPLY
MCA	MAX CIRCUIT AMPS	MTR	MOTOR
MCC	MOTOR CONTROL CENTER	NC	NORMALLY CLOSED OR NOISE CRITERIA
M/D	MOTORIZED DAMPER	NG	NATURAL GAS
MECH	MECHANICAL	NIC	NOT IN CONTRACT
MER	MECHANICAL EQUIPMENT ROOM	NO	NORMALLY OPEN OR NUMBER
MFR	MANUFACTURER	NPW	NON POTABLE WATER
MGS	MANUAL GRADUAL SWITCH	NTS	NOT TO SCALE
MIN	MINIMUM	OA	OUTSIDE AIR
MOD	MOTOR OPERATED DAMPER	OAD	OUTSIDE AIR DAMPER
MPCR	MEDIUM PRESSURE CONDENSATE RETURN	OAI	OUTSIDE AIR INTAKE
MPS	MEDIUM PRESSURE STEAM SUPPLY	OAT	OUTSIDE AIR TEMPERATURE
MTR	MOTOR	OBD	OPPOSED BLADE DAMPER
NC	NORMALLY CLOSED OR NOISE CRITERIA	OC	ON CENTER
NG	NATURAL GAS	OCC	OCCUPIED
NIC	NOT IN CONTRACT	OD	OUTSIDE DIAMETER
NO	NORMALLY OPEN OR NUMBER	ODP	OPEN DRIP ROOF
NPW	NON POTABLE WATER	OS&Y	OUTSIDE SCREW & YOKE
NTS	NOT TO SCALE	OZ	OUNCE
OA	OUTSIDE AIR	P	PUMP
OAD	OUTSIDE AIR DAMPER	PC	PUMPED CONDENSATE
OAI	OUTSIDE AIR INTAKE	PCR	PROCESS COOLING RETURN
OAT	OUTSIDE AIR TEMPERATURE	PCS	PROCESS COOLING SUPPLY
OBD	OPPOSED BLADE DAMPER	PD	PRESSURE DROP
OC	ON CENTER	PDI	PRESSURE DIFFERENTIAL INDICATOR
OCC	OCCUPIED	PDS	PRESSURE DIFFERENTIAL SENSOR
OD	OUTSIDE DIAMETER	PDT	PRESSURE DIFFERENTIAL TRANSMITTER
ODP	OPEN DRIP ROOF	PDU	POWER DISTRIBUTION UNIT
OS&Y	OUTSIDE SCREW & YOKE	PE	PNEUMATIC ELECTRIC
OZ	OUNCE	PH/ø	PHASE
P	PUMP	PHC	PREHEAT COIL
PC	PUMPED CONDENSATE	P/I	PNEUMATIC TO CURRENT TRANSDUCER
PCR	PROCESS COOLING RETURN	PI	PRESSURE INDICATOR
PCS	PROCESS COOLING SUPPLY	PID	PROPORTIONAL INTERGRATE AND DERIVATIVE
PD	PRESSURE DROP	PIV	POST INDICATOR VALVE
PDI	PRESSURE DIFFERENTIAL INDICATOR	PLC	PROGRAMMABLE LOGIC CONTROLLER
PDS	PRESSURE DIFFERENTIAL SENSOR	PNEU	PNEUMATIC
PDT	PRESSURE DIFFERENTIAL TRANSMITTER	PPH	POUNDS PER HOUR
PDU	POWER DISTRIBUTION UNIT	PR	PRESSURE
PE	PNEUMATIC ELECTRIC	PRV	PRESSURE REDUCING VALVE
PH/ø	PHASE	PSF	POUNDS PER SQUARE FOOT
PHC	PREHEAT COIL	PSIG	POUNDS PER SQUARE INCH GAUGE
P/I	PNEUMATIC TO CURRENT TRANSDUCER	PSI	POUNDS PER SQUARE INCH
PI	PRESSURE INDICATOR	PST	PRESSURE TRANSMITTER
PID	PROPORTIONAL INTERGRATE AND DERIVATIVE	RA	RETURN AIR
PIV	POST INDICATOR VALVE	RAD	RETURN AIR DAMPER
PLC	PROGRAMMABLE LOGIC CONTROLLER	RAF	RETURN AIR FAN
PNEU	PNEUMATIC	RCP	REMOTE CONTROL PANEL
PPH	POUNDS PER HOUR	RCP	REFLECTED CEILING PLAN
PR	PRESSURE	RD	ROOF DRAIN
PRV	PRESSURE REDUCING VALVE	REQ'D	REQUIRED
PSF	POUNDS PER SQUARE FOOT	REV	REVISION
PSIG	POUNDS PER SQUARE INCH GAUGE	RF	RETURN FAN
PSI	POUNDS PER SQUARE INCH	RG	RETURN GRILLE
PST	PRESSURE TRANSMITTER	RH	RELATIVE HUMIDITY
RA	RETURN AIR	RHC	REHEAT COIL
RAD	RETURN AIR DAMPER	RL	REFRIGERATION LIQUID
RAF	RETURN AIR FAN	RLA	RUNNING LOAD AMPS
RCP	REMOTE CONTROL PANEL	RM	ROOM
RCP	REFLECTED CEILING PLAN	RO	ROOF OPENING
RD	ROOF DRAIN	RPM	REVOLUTIONS PER MINUTE
REQ'D	REQUIRED	RR	RETURN REGISTER
REV	REVISION	RS	REFRIGERANT SUCTION
RF	RETURN FAN	RV	REFRIGERANT VENT
RG	RETURN GRILLE	S	SWITCH
RH	RELATIVE HUMIDITY	S#	CEILING SUPPLY DIFFUSER
RHC	REHEAT COIL	SA	SUPPLY AIR
RL	REFRIGERATION LIQUID	SF-#	SUPPLY AIR FAN
RLA	RUNNING LOAD AMPS	SAN	SANITARY WASTE
RM	ROOM	SCHWR	SECONDARY CHILLED WATER RETURN
RO	ROOF OPENING	SCHWS	SECONDARY CHILLED WATER SUPPLY
RPM	REVOLUTIONS PER MINUTE	SD	SMOKE DAMPER
RR	RETURN REGISTER	SEC	SECOND
RS	REFRIGERANT SUCTION	SEF	SMOKE EXHAUST FAN
RV	REFRIGERANT VENT	SENS	SENSIBLE HEAT
S	SWITCH	SHWR	SECONDARY HEATING HOT WATER RETURN
S#	CEILING SUPPLY DIFFUSER	SHWS	SECONDARY HEATING HOT WATER SUPPLY
SA	SUPPLY AIR	SP	STATIC PRESSURE
SF-#	SUPPLY AIR FAN	SPEC	PECIFICATION
SAN	SANITARY WASTE	SF	SQUARE FEET
SCHWR	SECONDARY CHILLED WATER RETURN	SR	SUPPLY REGISTER
SCHWS	SECONDARY CHILLED WATER SUPPLY	SRV	SAFETY RELIEF VALVE/VENT
SD	SMOKE DAMPER	SS	STAINLESS STEEL
SEC	SECOND	SYS	SYSTEM
SEF	SMOKE EXHAUST FAN	TSTAT	THERMOSTAT
SENS	SENSIBLE HEAT	TA	TOTAL AIR
SHWR	SECONDARY HEATING HOT WATER RETURN	TEFC	TOTALLY ENCLOSED FAN COOLED
SHWS	SECONDARY HEATING HOT WATER SUPPLY	TEMP	TEMPERATURE
SP	STATIC PRESSURE	TI	TEMPERATURE INDICATOR
SPEC	PECIFICATION	TMV	TEMPERATURE MIXING VALVE
SF	SQUARE FEET	TOD	TOP OF DUCT
SR	SUPPLY REGISTER	TOP	TOP OF PIPE
SRV	SAFETY RELIEF VALVE/VENT	TOS	TOP OF STEEL
SS	STAINLESS STEEL	TOT	OTAL HEAT
SYS	SYSTEM	TSP	TOTAL STATIC PRESSURE
TSTAT	THERMOSTAT	TS	TAMPER SWITCH OR TEMP SENSOR
TA	TOTAL AIR	TT	TEMPERATURE TRANSMITTER
TEFC	TOTALLY ENCLOSED FAN COOLED	TYP	TYPICAL
TEMP	TEMPERATURE	UCD	UNDERCUT DOOR
TI	TEMPERATURE INDICATOR	UNOCC	UNOCCUPIED
TMV	TEMPERATURE MIXING VALVE	UH	UNIT HEATER
TOD	TOP OF DUCT	UPS	UNINTERRUPTABLE POWER SUPPLY
TOP	TOP OF PIPE	V	VENT OR VOLTAGE
TOS	TOP OF STEEL	VAC	VACUUM
TOT	OTAL HEAT	VAV	VARIABLE AIR VOLUME
TSP	TOTAL STATIC PRESSURE	VD	VOLUME DAMPER
TS	TAMPER SWITCH OR TEMP SENSOR	VEL	VELOCITY
TT	TEMPERATURE TRANSMITTER	VERT	VERTICAL
TYP	TYPICAL	VFD	VARIABLE FREQUENCY DRIVE
UCD	UNDERCUT DOOR	VI	VALVE IN VERTICLE
UNOCC	UNOCCUPIED	VTR	VENT THROUGH ROOF
UH	UNIT HEATER	W	WIDTH OR WASTE
UPS	UNINTERRUPTABLE POWER SUPPLY	W/	WITH
V	VENT OR VOLTAGE	WB	WET BULB
VAC	VACUUM	WC	WATER CLOSET/ COLUMN
VAV	VARIABLE AIR VOLUME	WCO	WALL CLEANOUT
VD	VOLUME DAMPER	WFS	WATER FLOW SWITCH
VEL	VELOCITY	WG	WATER GAUGE
VERT	VERTICAL	WMS	WIRE MESH SCREEN
VFD	VARIABLE FREQUENCY DRIVE	W/O	WITHOUT
VI	VALVE IN VERTICLE		
VTR	VENT THROUGH ROOF		
W	WIDTH OR WASTE		
W/	WITH		
WB	WET BULB		
WC	WATER CLOSET/ COLUMN		
WCO	WALL CLEANOUT		
WFS	WATER FLOW SWITCH		
WG	WATER GAUGE		
WMS	WIRE MESH SCREEN		
W/O	WITHOUT		



**GENERAL NOTES**

The drawings are generally diagrammatic and are intended to convey the scope of work and indicate general arrangement of equipment. The locations of all indicated items that are not fixed by dimension are approximate only.

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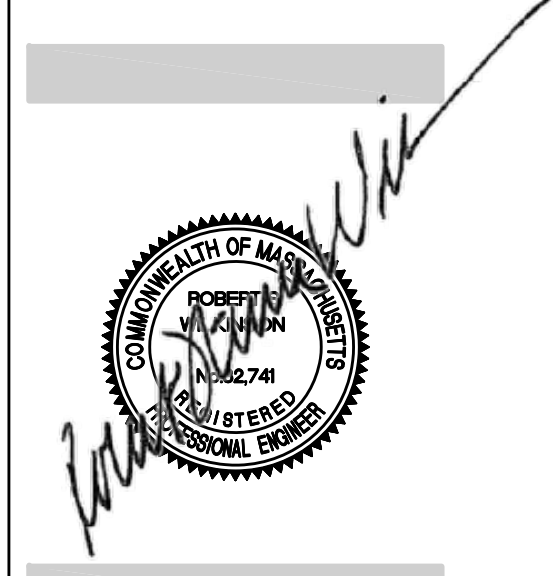
Refer to Architectural Floor Plan for the exact location and Configuration of all plumbing fixtures.

All system shut-downs shall be with approval of the Architect and Owner. Interruptions to services shall be scheduled to minimize down time.

Refer to the PROJECT SPECIFICATION for additional requirements.

**Ed Wojcik**  
 architect, ltd  
 One Richmond Square  
 Providence, RI 02906  
 401-861-7139

Proposed Design for:  
**Woodland Cove**  
**Phase I**  
 Buildings E, F, & COMMUNITY BUILDING  
 3102 Cranberry Highway  
 Wareham, MA 02532



SHEET CONTENTS:  
 PLUMBING:  
 ABBREVIATIONS,  
 SYMBOLS AND  
 LEGEND

PROJECT # 1420  
 DATE: 9/22/2020  
 REVISED DATE:  
 REVISED: 02/16/2021

**P0.0**

CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

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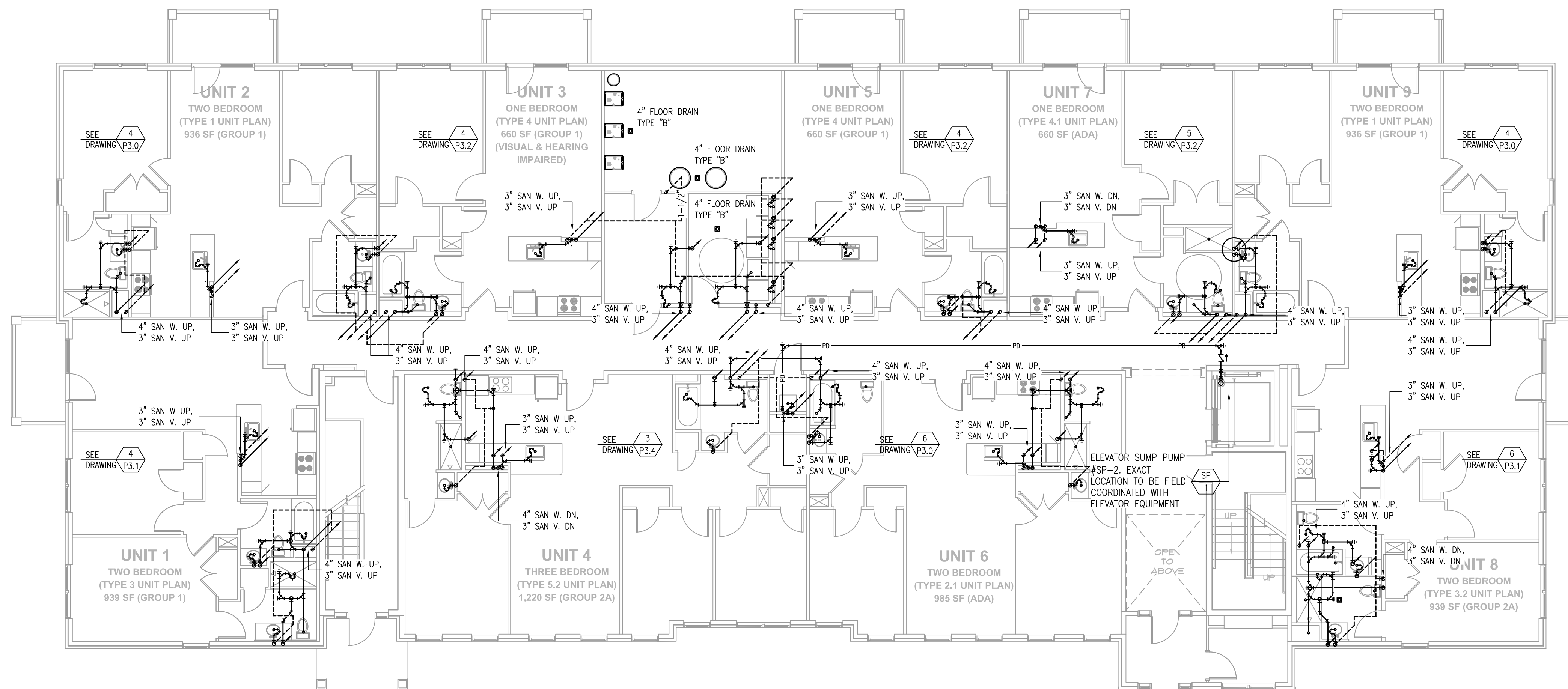
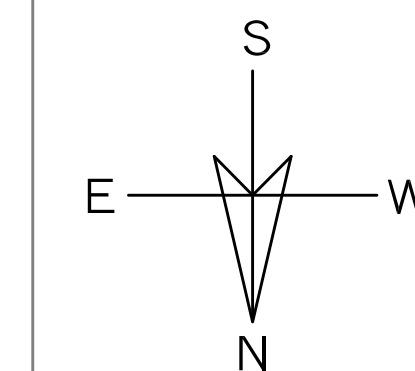
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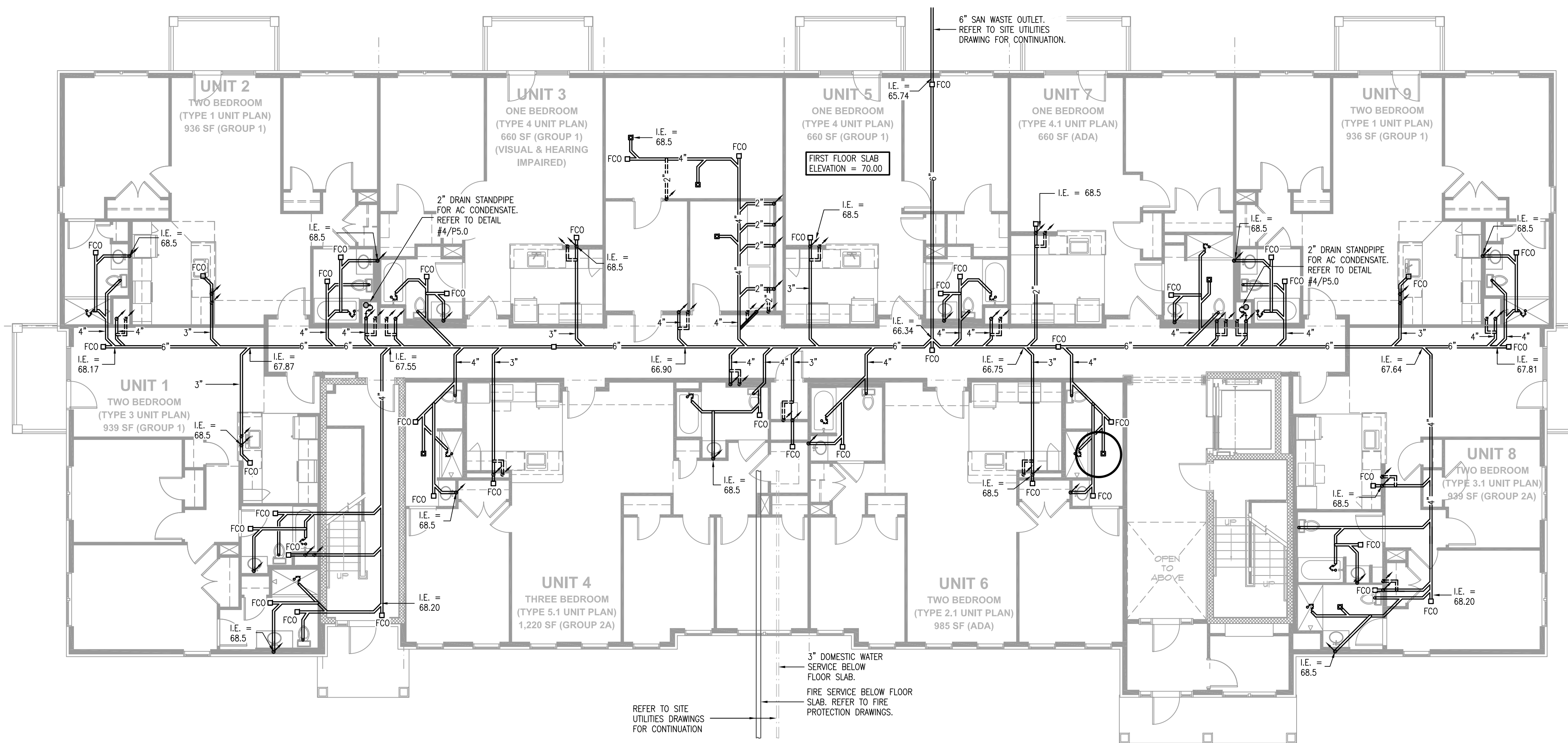
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**2** PLUMBING: BUILDING E, FIRST FLOOR PLAN  
P1.0 SCALE: 1/8" = 1'-0"



**1** PLUMBING: BUILDING E, FIRST FLOOR UNDERSLAB PLAN  
P1.0 SCALE: 1/8" = 1'-0"



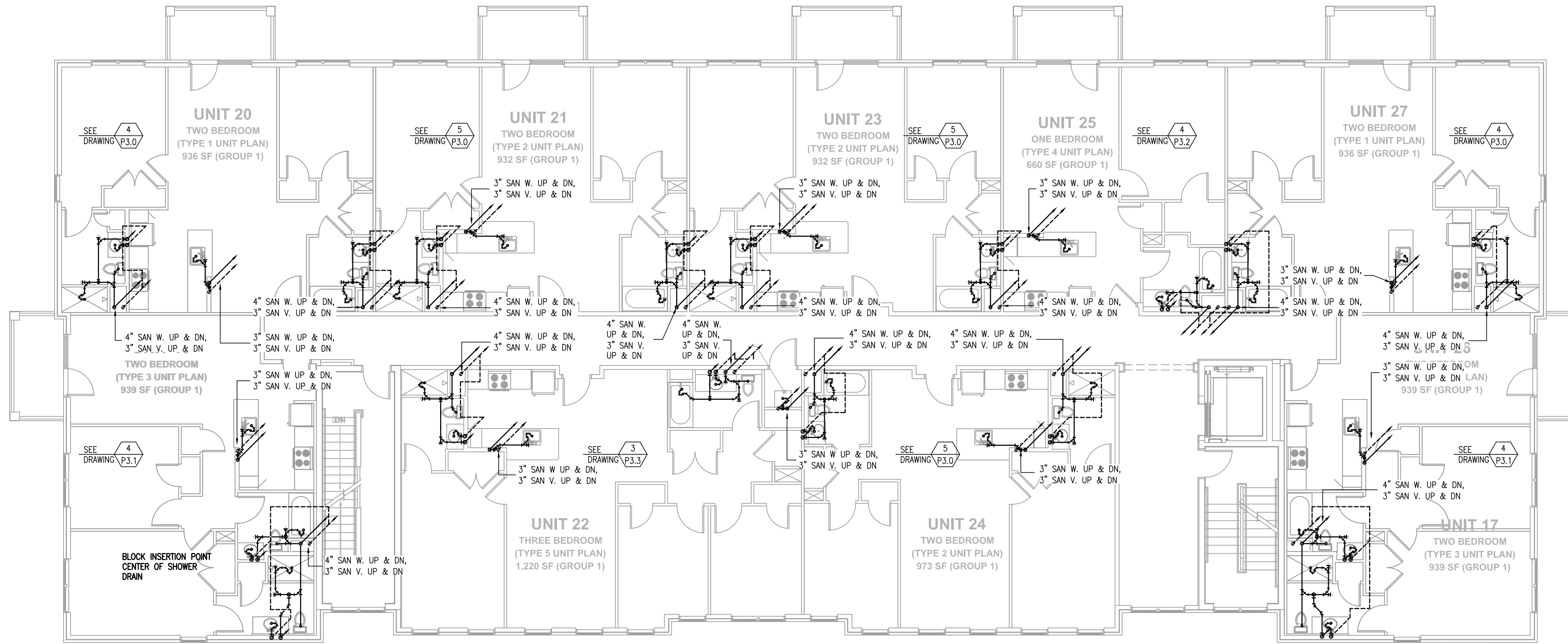
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PLUMBING: BUILDING E  
UNDERSLAB AND FIRST  
FLOOR PLANS,  
SANITARY W&V

PROJECT # 1420

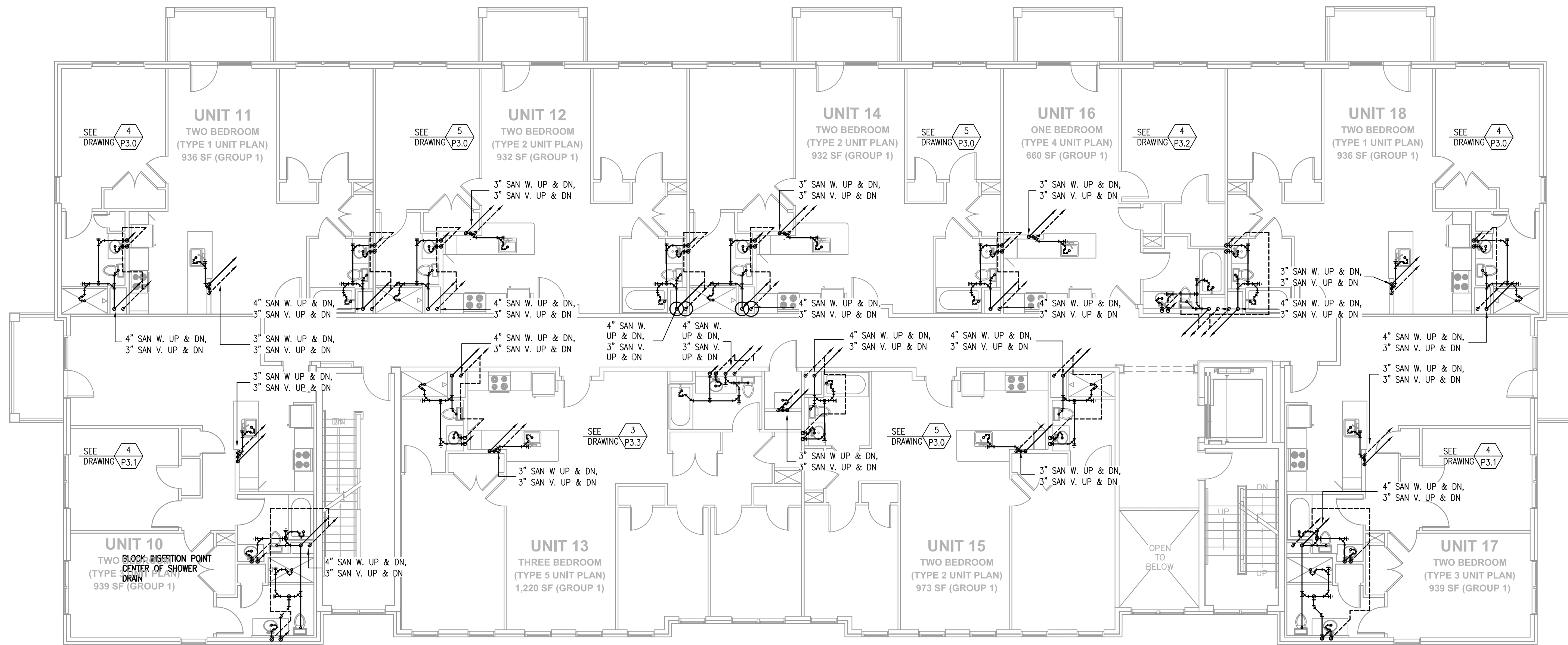
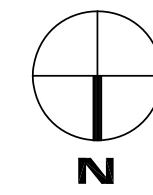
DATE: 9/22/2020  
REVISED DATE:  
▲ REVISED: 1/21/2021

**P1.0**

CONSTRUCTION DOCUMENTS - REVISED SET JANUARY 21, 2021



**2** PLUMBING: BUILDING E, THIRD FLOOR PLAN  
**P1.1** SCALE: 1/8" = 1'-0"



**1** PLUMBING: BUILDING E, SECOND FLOOR PLAN  
**P1.1** SCALE: 1/8" = 1'-0"



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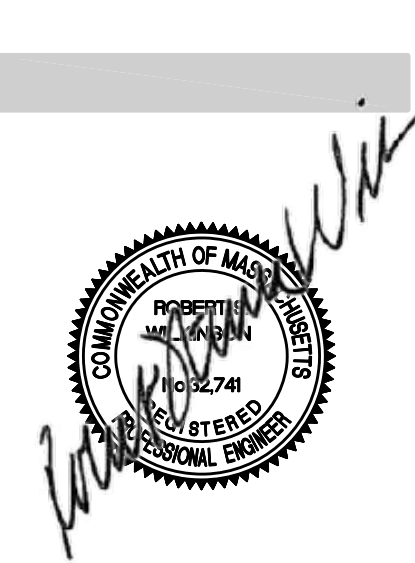
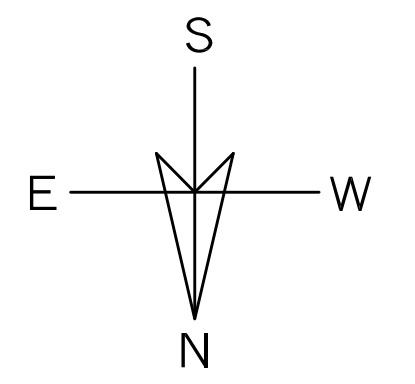
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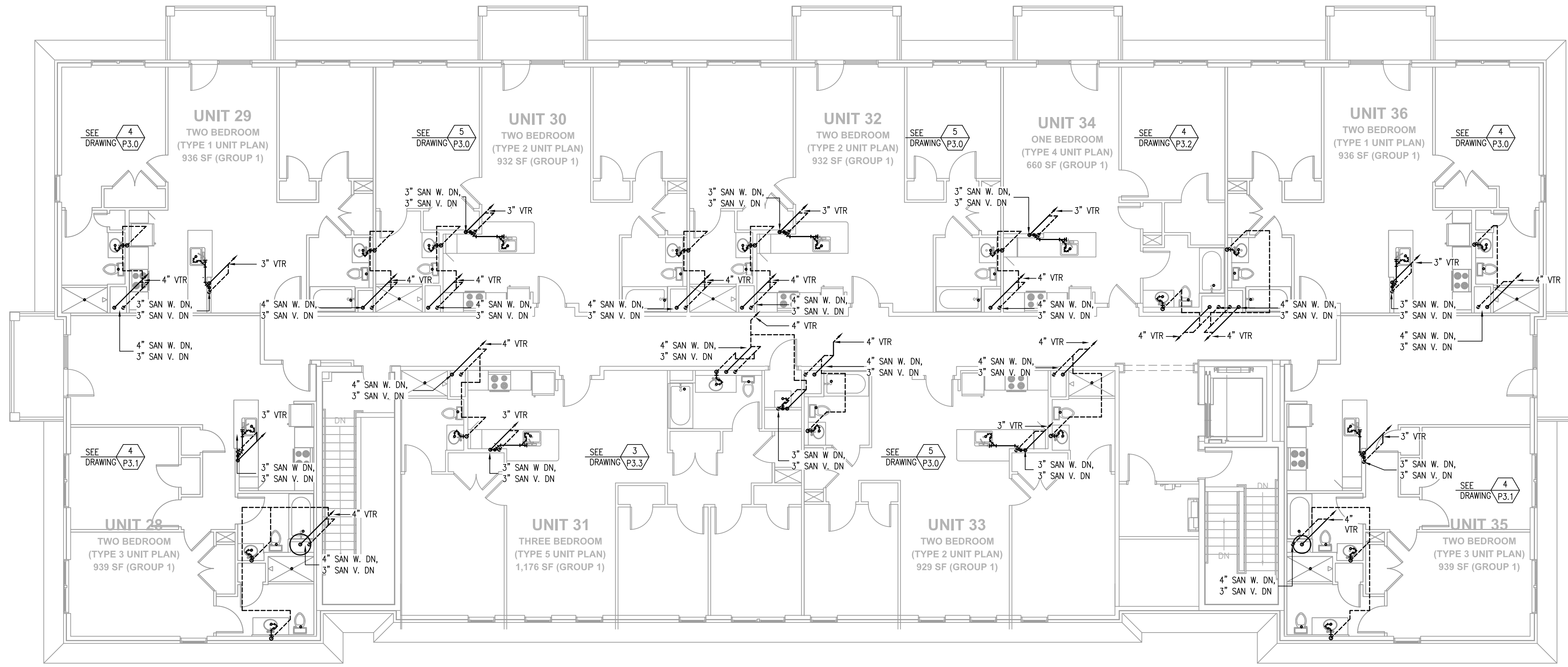
SHEET CONTENTS:  
 PLUMBING: BUILDING E  
 SECOND AND THIRD  
 FLOOR PLANS  
 SANITARY W&V

PROJECT # 1420

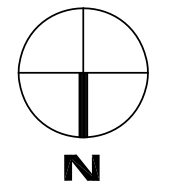
DATE: 9/22/2020  
 REVISED DATE:  
 1 REVISED: 02/16/2021

**P1.1**





**1** PLUMBING: BUILDING E, FOURTH FLOOR PLAN  
**P1.2** SCALE: 1/8" = 1'-0"



**WILKINSON ASSOCIATES INC.**  
 CONSULTING ENGINEERS  
 615 Jefferson Boulevard, Warwick, Rhode Island 02886  
 Telephone: (401) 737-6062 Fax: (401) 738-2187  
 Website: www.wilkinsonassociates.net

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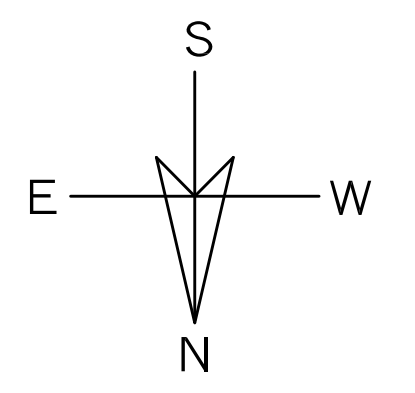
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Proposed Design for:  
**Woodland Cove**  
**Phase I**  
 Buildings E, F, & COMMUNITY BUILDING  
 3102 Cranberry Highway  
 Wareham, MA 02532



SHEET CONTENTS:  
 PLUMBING:  
 BUILDING E  
 FOURTH FLOOR PLAN  
 SANITARY W&V

PROJECT # 1420  
 DATE: 9/22/2020  
 REVISED DATE:  
 1 REVISED: 02/16/2021

**P1.2**

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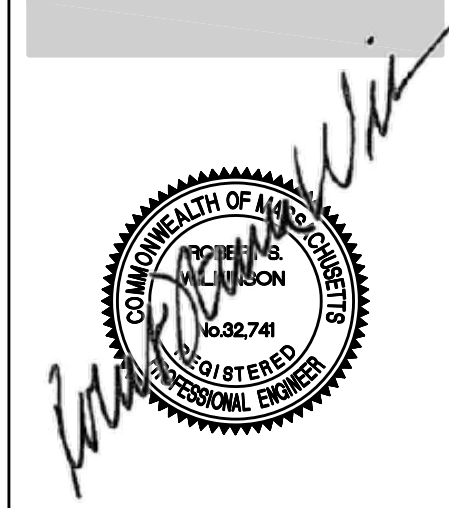
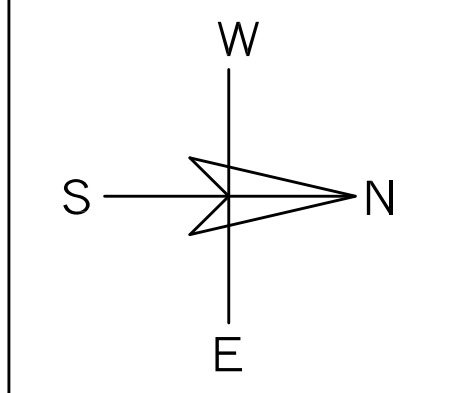
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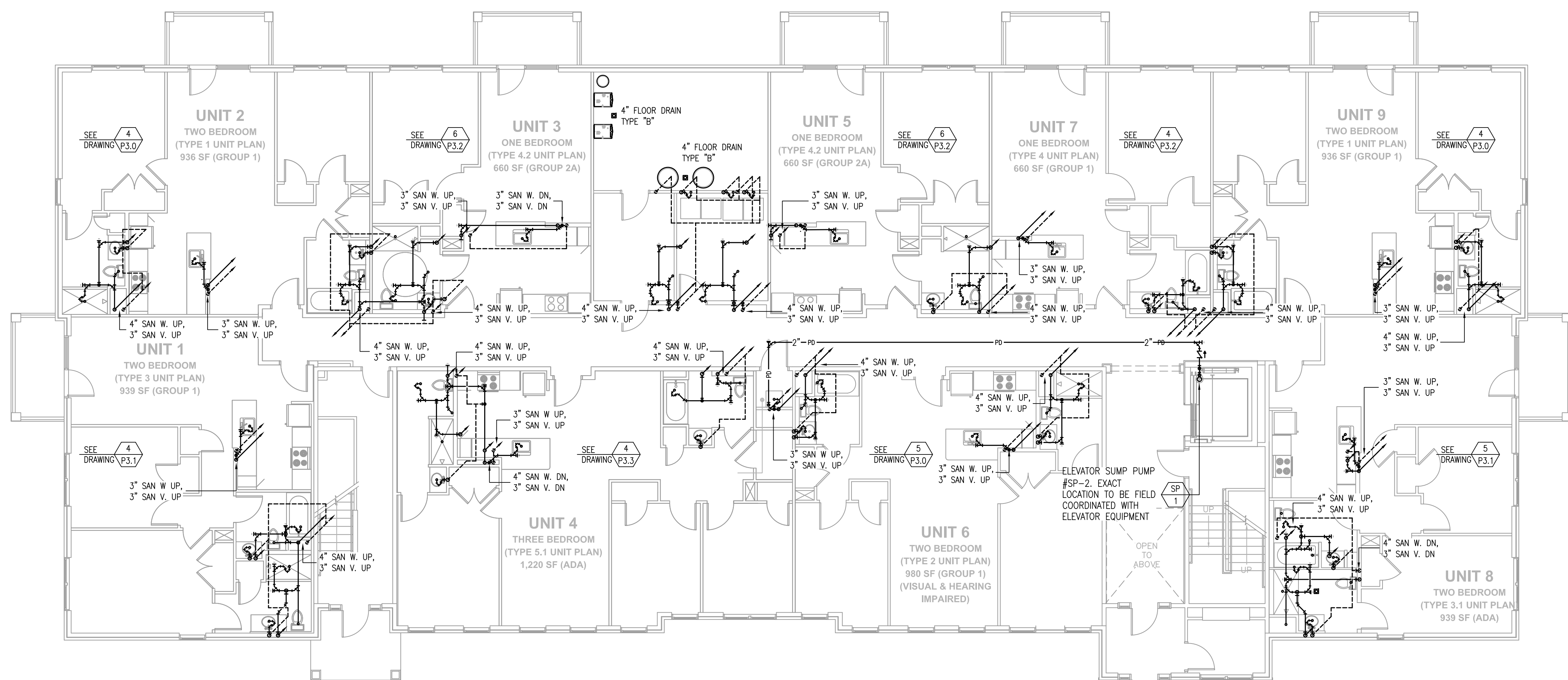
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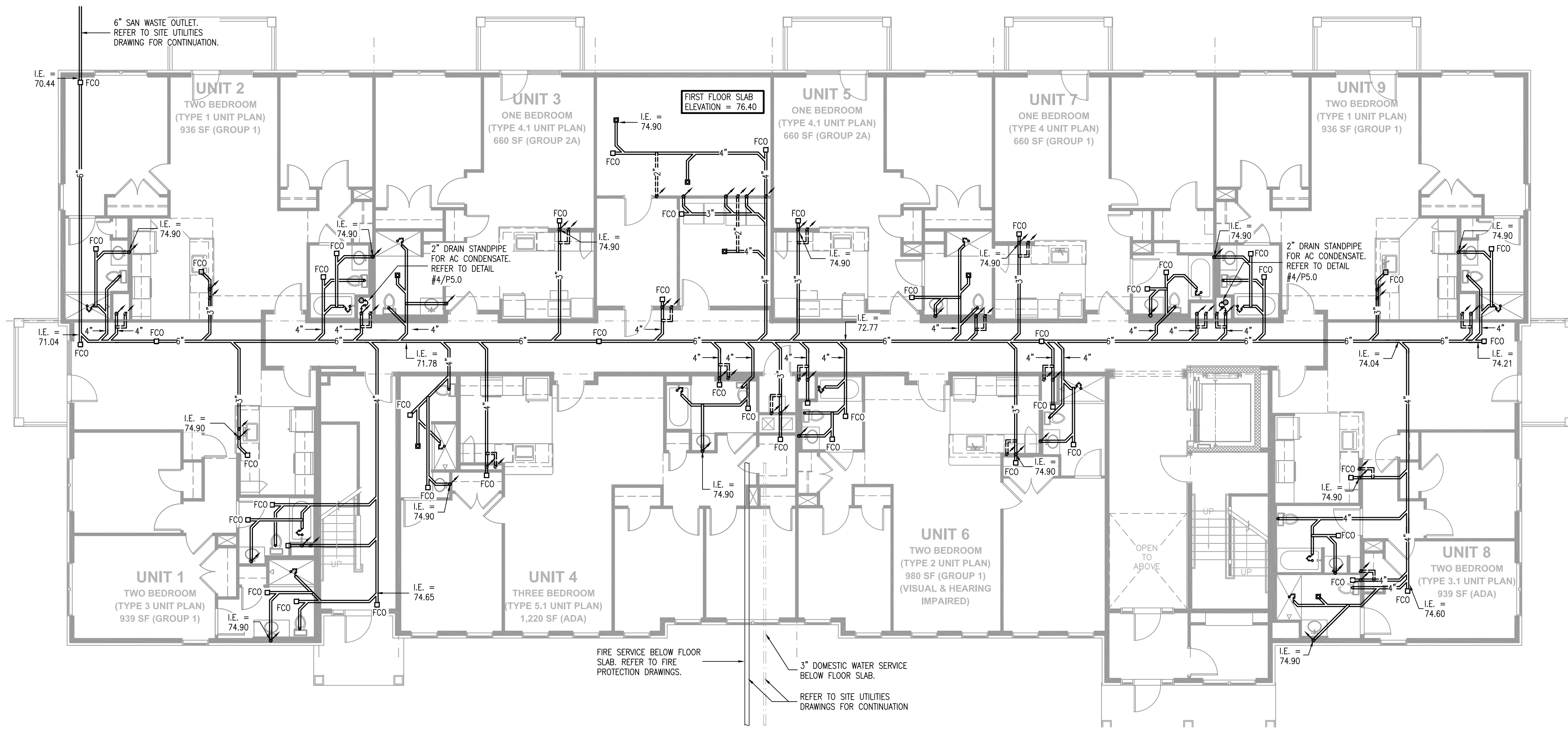
SHEET CONTENTS:  
PLUMBING: BUILDING F  
UNDERSLAB AND FIRST  
FLOOR PLANS  
SANITARY W&V

PROJECT # 1420  
DATE: 9/22/2020  
REVISED DATE:  
REVISED: 02/16/2021

**P1.3**



**2** PLUMBING: BUILDING F, FIRST FLOOR PLAN  
P1.3 SCALE: 1/8" = 1'-0"



**1** PLUMBING: BUILDING F, FIRST FLOOR UNDERSLAB PLAN  
P1.3 SCALE: 1/8" = 1'-0"

CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

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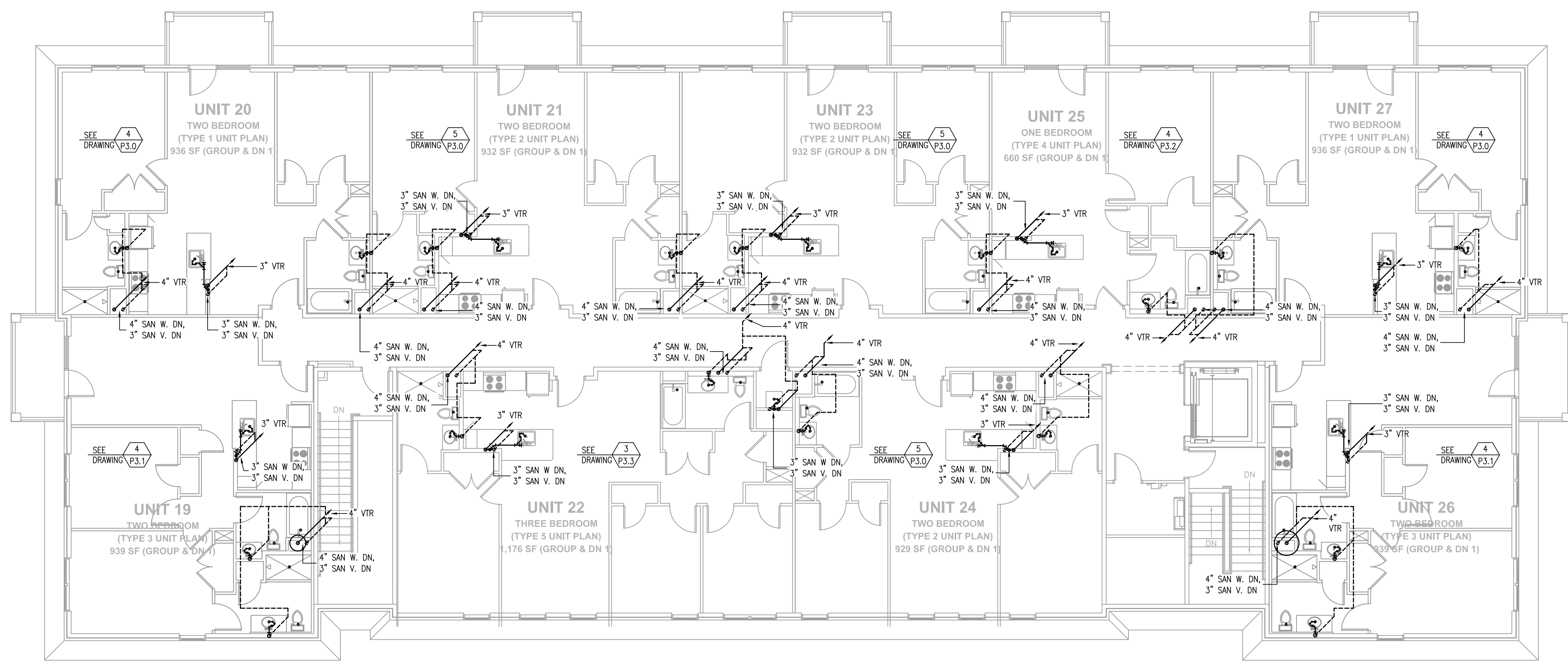
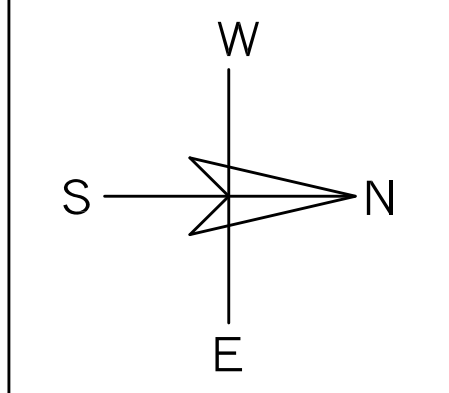
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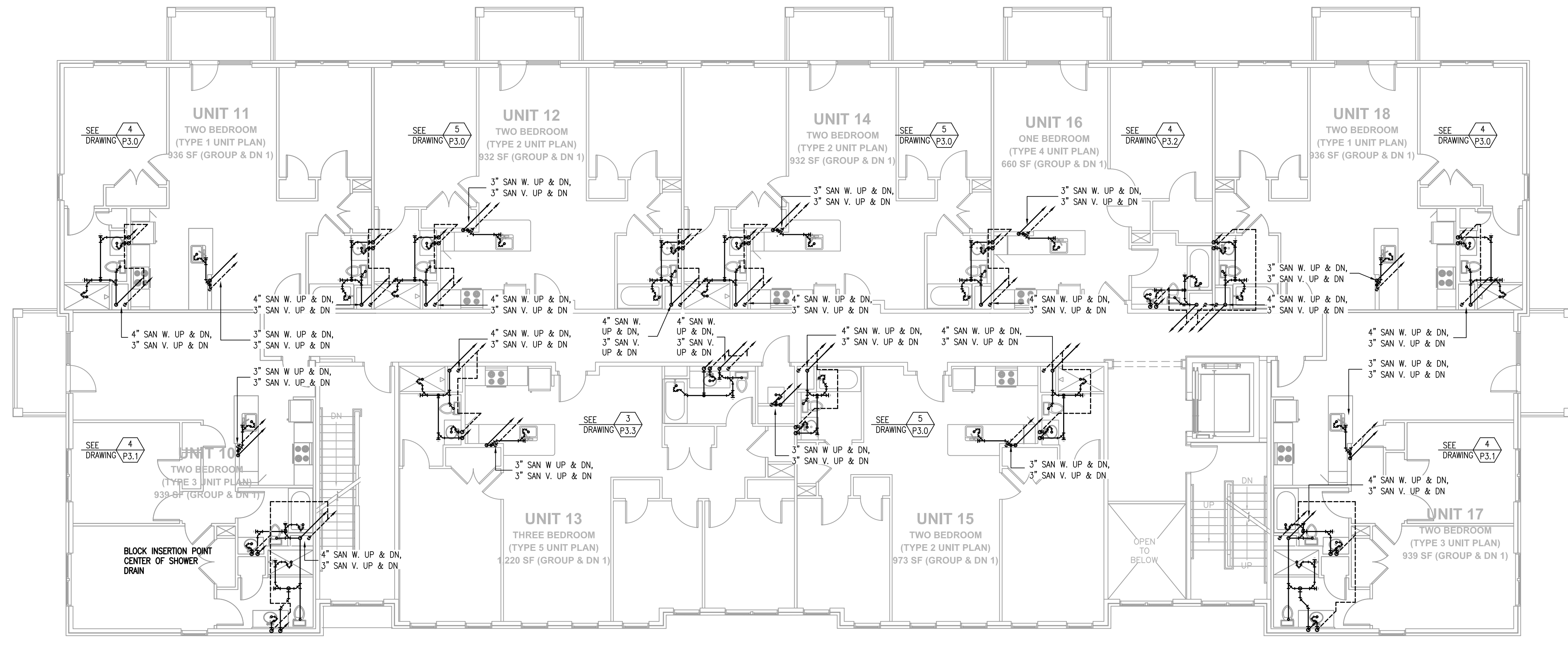
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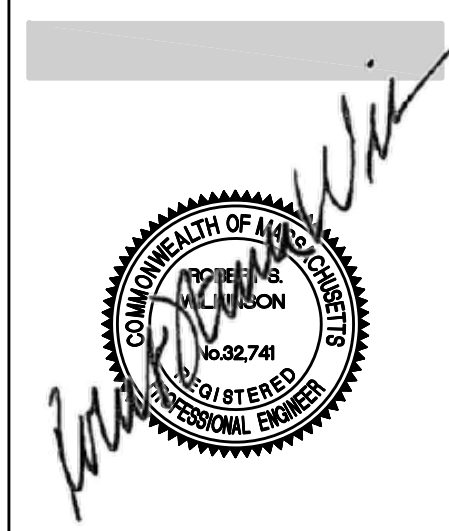


**2 PLUMBING: BUILDING F, THIRD FLOOR PLAN**  
P1.4 SCALE: 1/8" = 1'-0"



**1 PLUMBING: BUILDING F, SECOND FLOOR PLAN**  
P1.4 SCALE: 1/8" = 1'-0"

Proposed Design for:  
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SHEET CONTENTS:  
PLUMBING: BUILDING F  
SECOND AND THIRD  
FLOOR PLANS  
SANITARY W&V

PROJECT # 1420  
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**P1.4**

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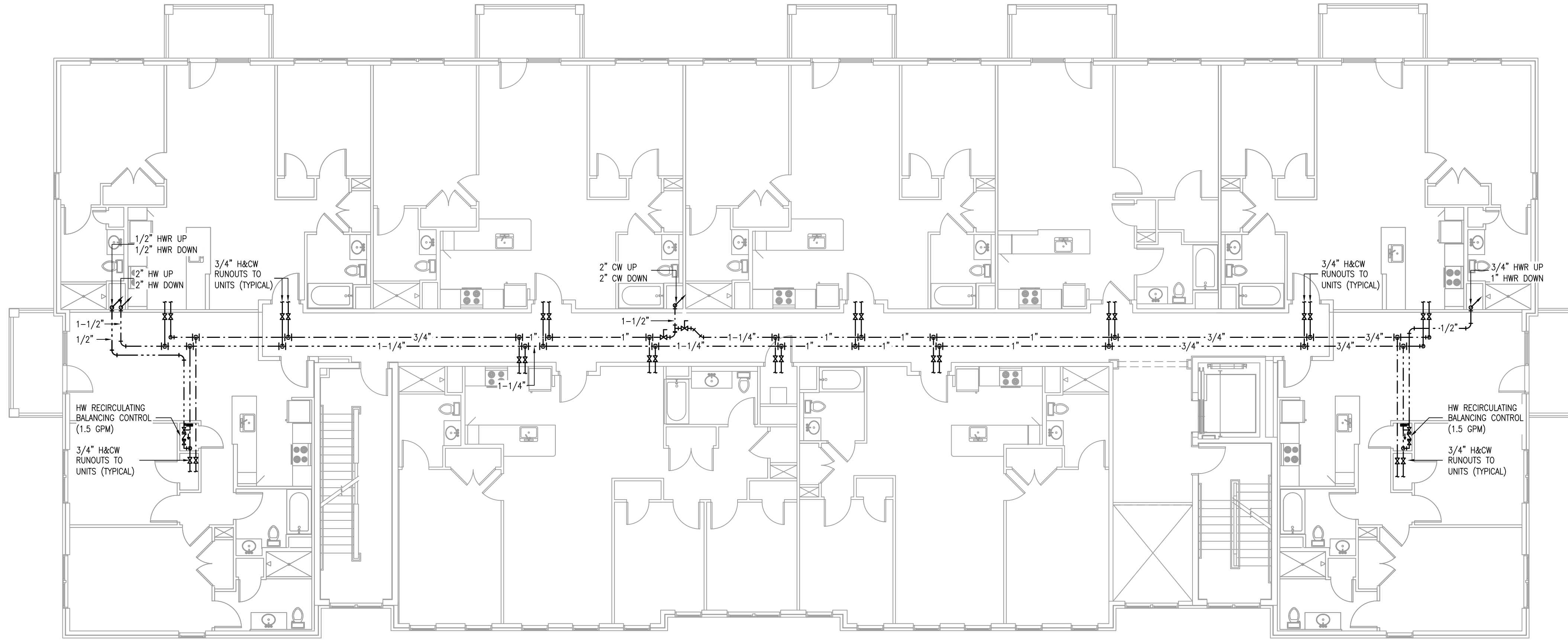
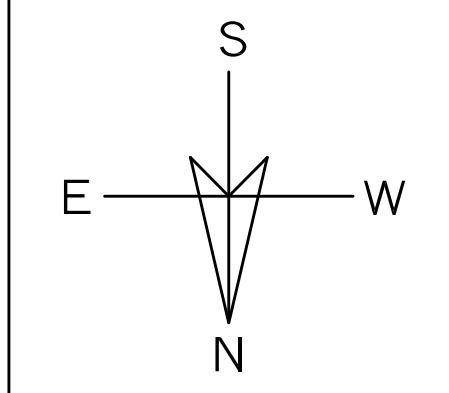
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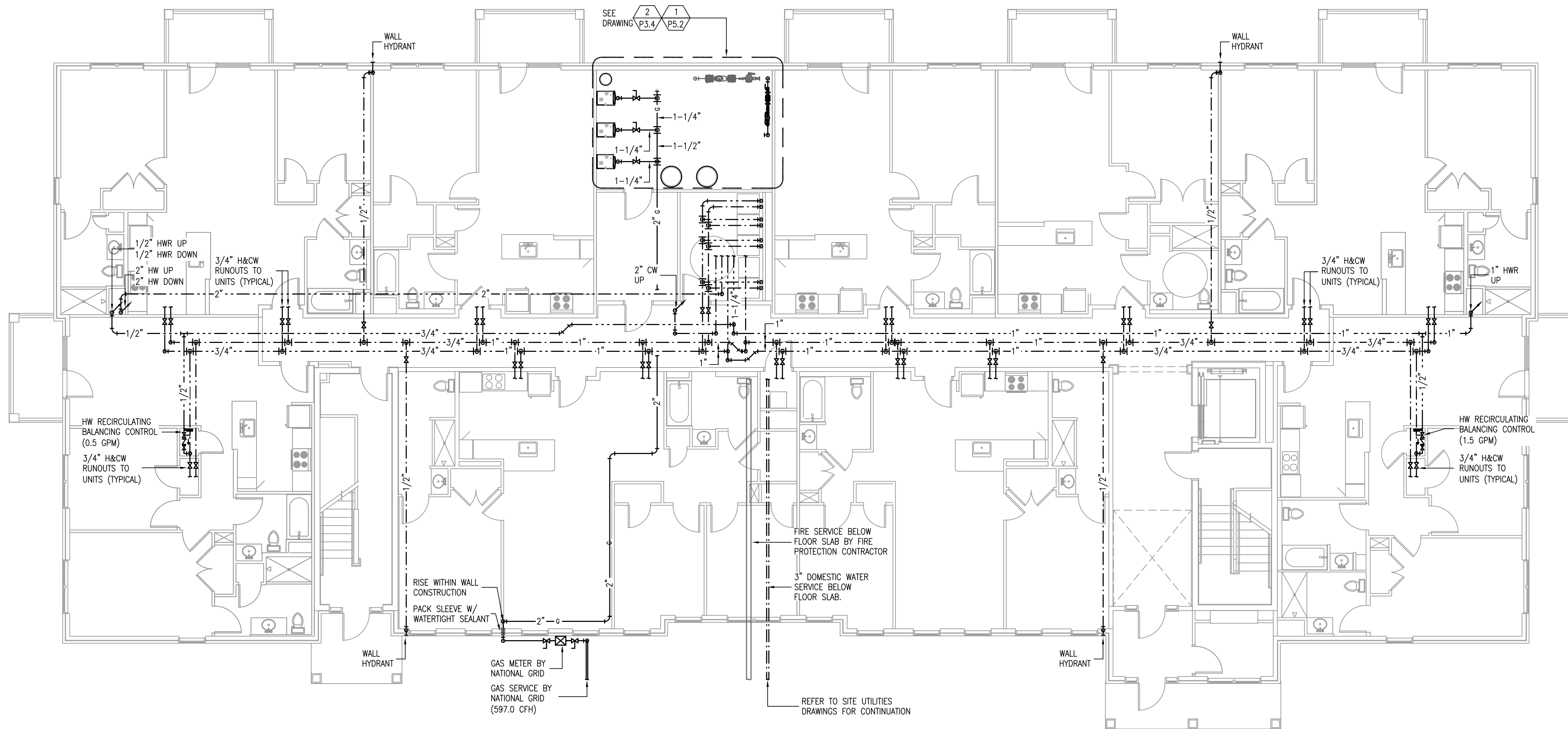
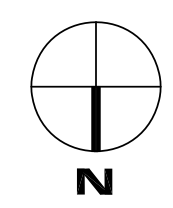
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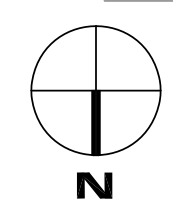
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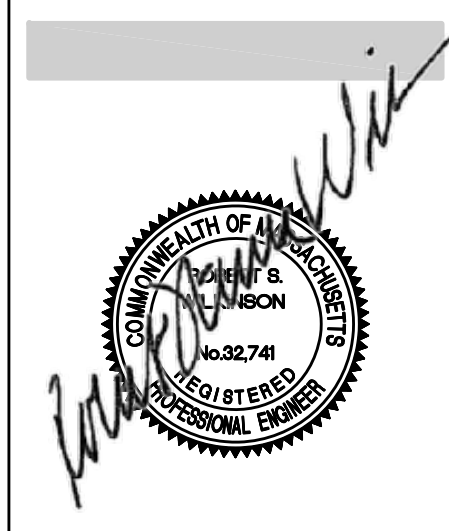
**1 PLUMBING: BUILDING E, SECOND FLOOR PLAN**  
P2.0 SCALE: 1/8" = 1'-0"



**2 PLUMBING: BUILDING E, FIRST FLOOR PLAN**  
P2.0 SCALE: 1/8" = 1'-0"



Proposed Design for:  
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Phase I  
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SHEET CONTENTS:  
PLUMBING: BUILDING E  
FIRST AND SECOND  
FLOOR PLANS  
DOMESTIC H&CW

PROJECT # 1420  
DATE: 9/22/2020  
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**P2.0**

CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

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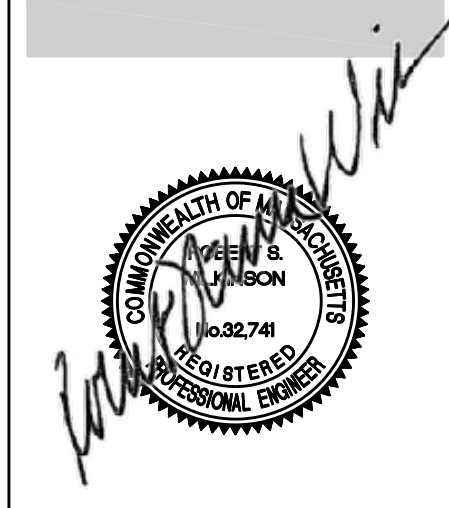
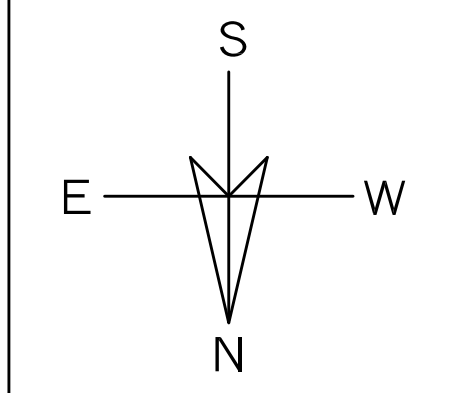
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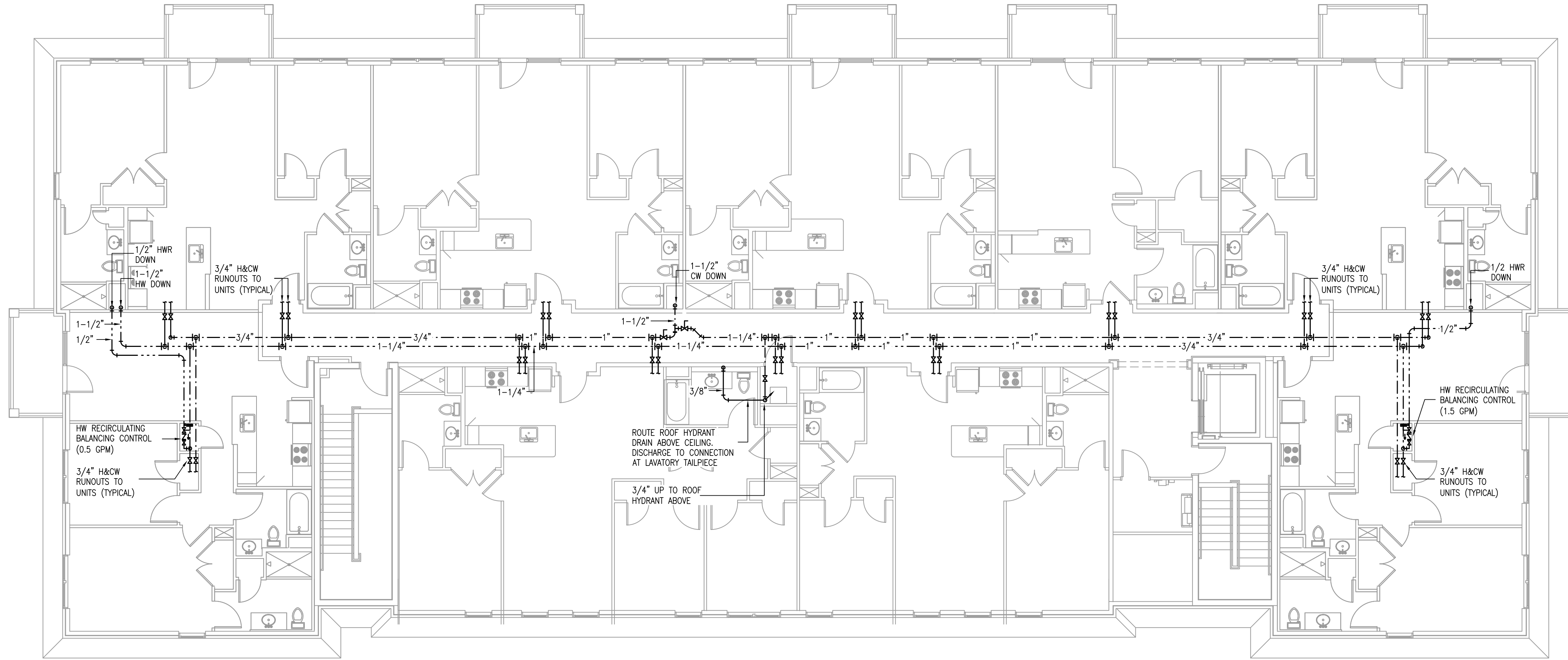
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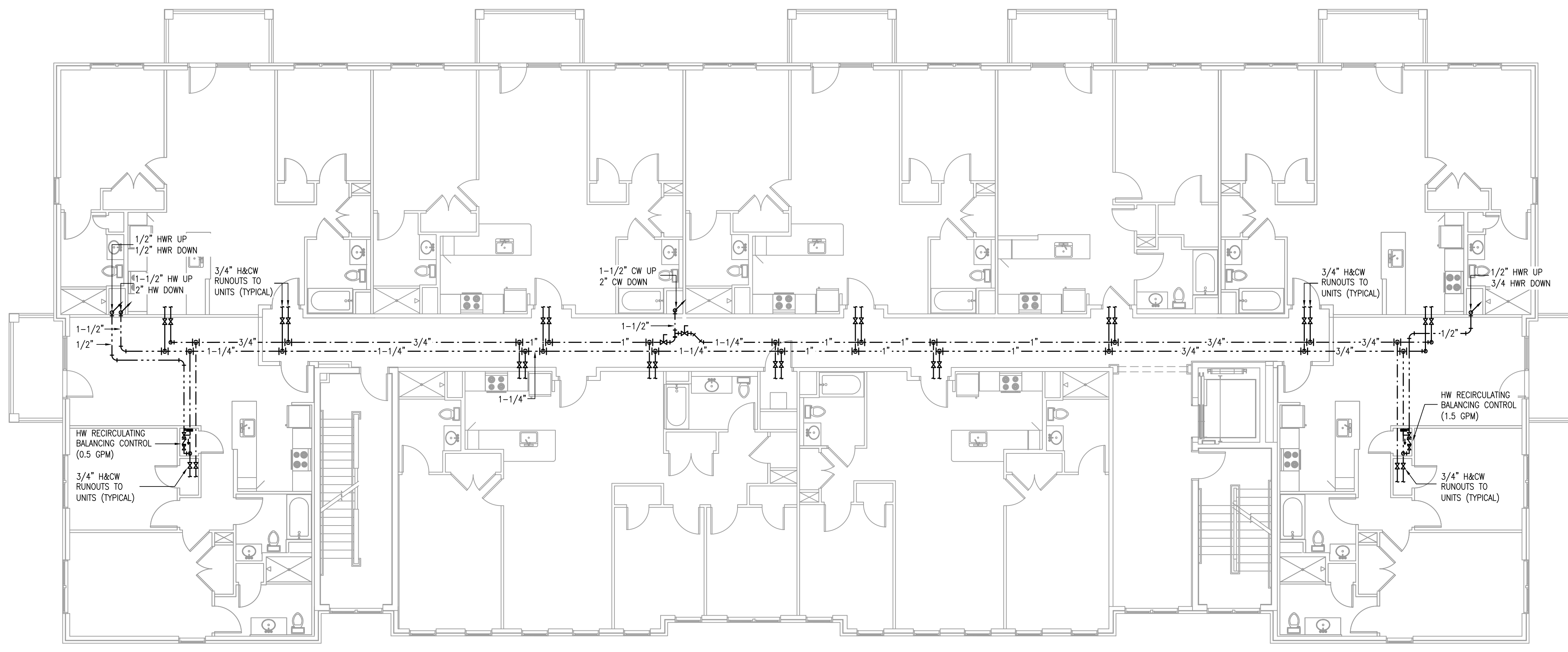
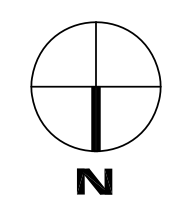
SHEET CONTENTS:  
PLUMBING: BUILDING E  
THIRD AND FOURTH  
FLOOR PLANS  
DOMESTIC H&CW

PROJECT # 1420  
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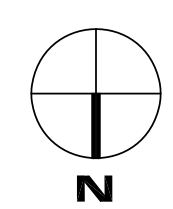
**P2.1**



**1 PLUMBING: BUILDING E, FOURTH FLOOR PLAN**  
P2.1 SCALE: 1/8" = 1'-0"



**2 PLUMBING: BUILDING E, THIRD FLOOR PLAN**  
P2.1 SCALE: 1/8" = 1'-0"



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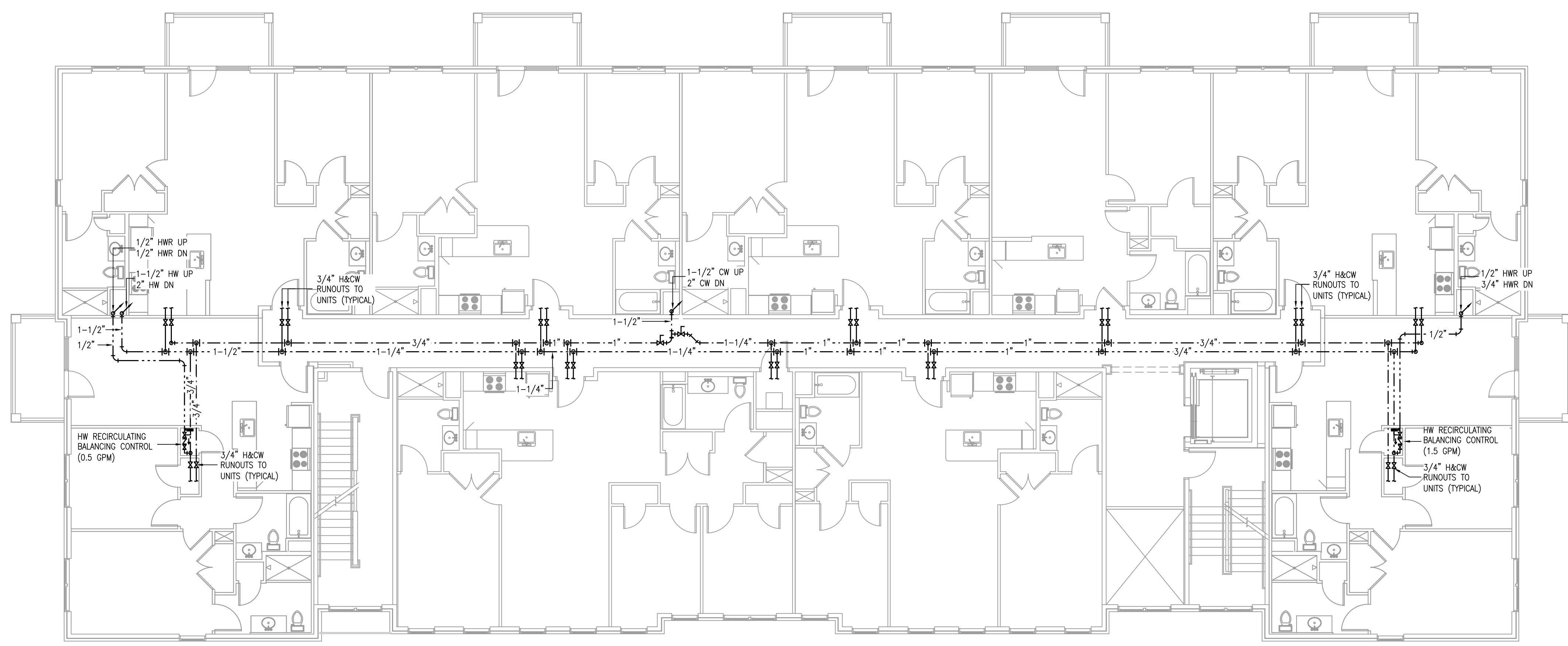
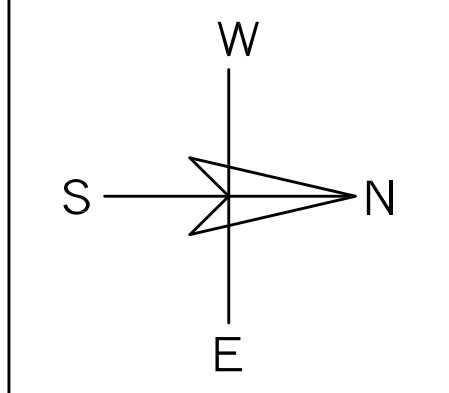
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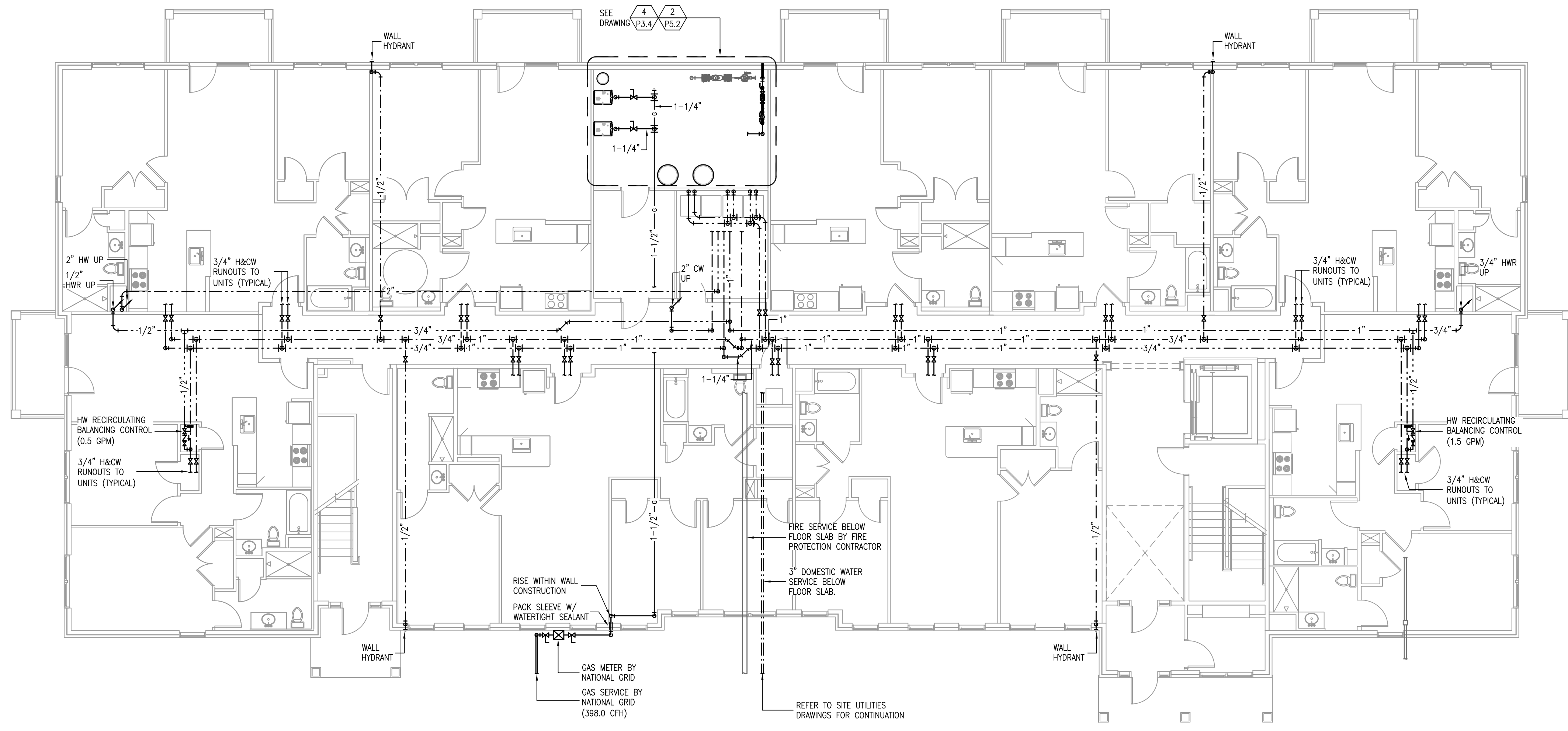
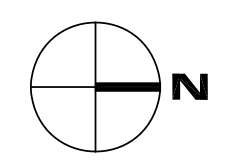
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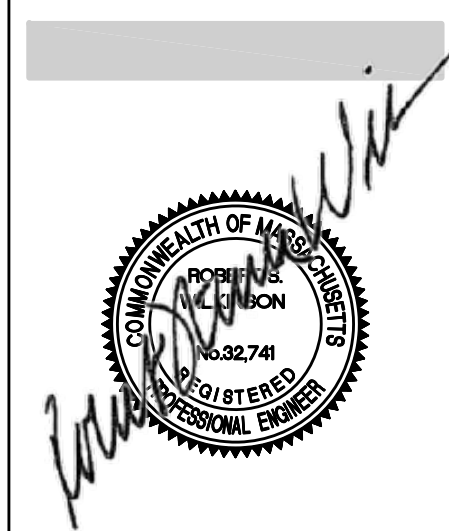
**1 PLUMBING: BUILDING F, SECOND FLOOR PLAN**  
P2.2 SCALE: 1/8" = 1'-0"



**2 PLUMBING: BUILDING F, FIRST FLOOR PLAN**  
P2.2 SCALE: 1/8" = 1'-0"



Proposed Design for:  
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SHEET CONTENTS:  
PLUMBING: BUILDING F  
FIRST AND SECOND  
FLOOR PLANS  
DOMESTIC H&CW

PROJECT # 1420  
DATE: 9/22/2020  
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**P2.2**

CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

This drawing is copyrighted. Unauthorized use is prohibited.

2/16/2021 11:14 AM S:\Dropbox\20041 Woodland Cove\20041 P2.0 Plumbing H&CW (F-E).dwg



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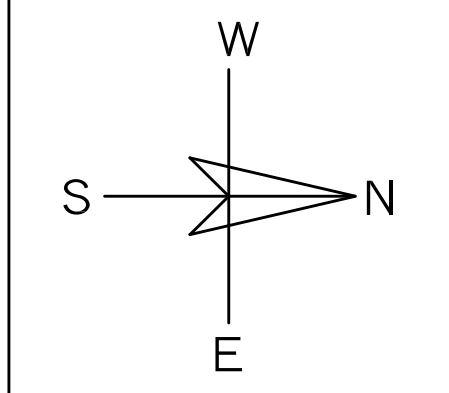
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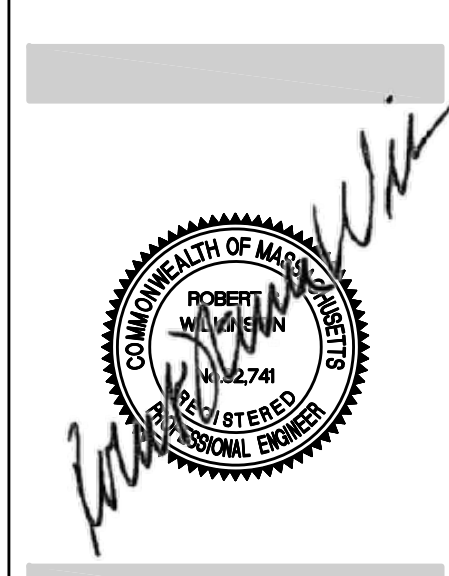
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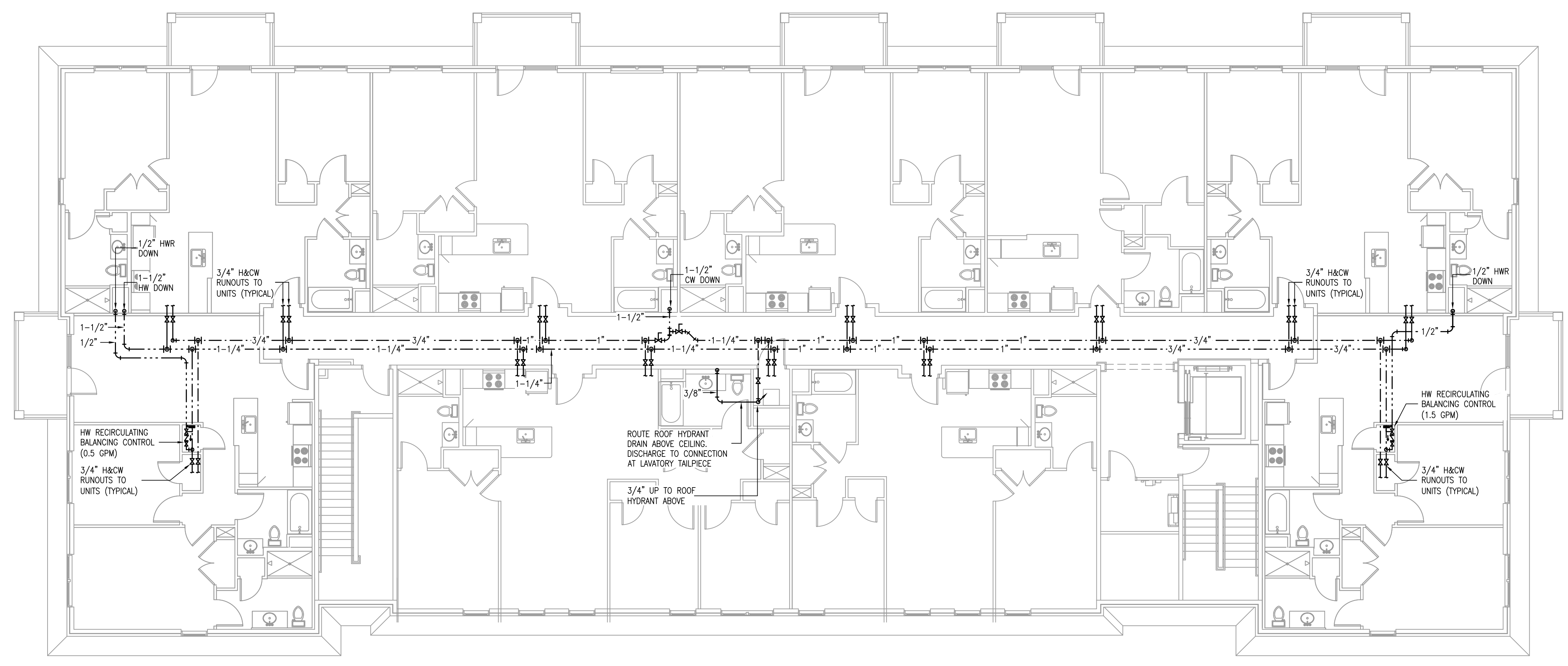
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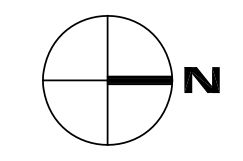
SHEET CONTENTS:  
PLUMBING: BUILDING F  
THIRD FLOOR PLAN  
DOMESTIC H&CW

PROJECT # 1420  
DATE: 9/22/2020  
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# P2.3



**1** PLUMBING: BUILDING F, THIRD FLOOR PLAN  
**P2.3** SCALE: 1/8" = 1'-0"



CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021



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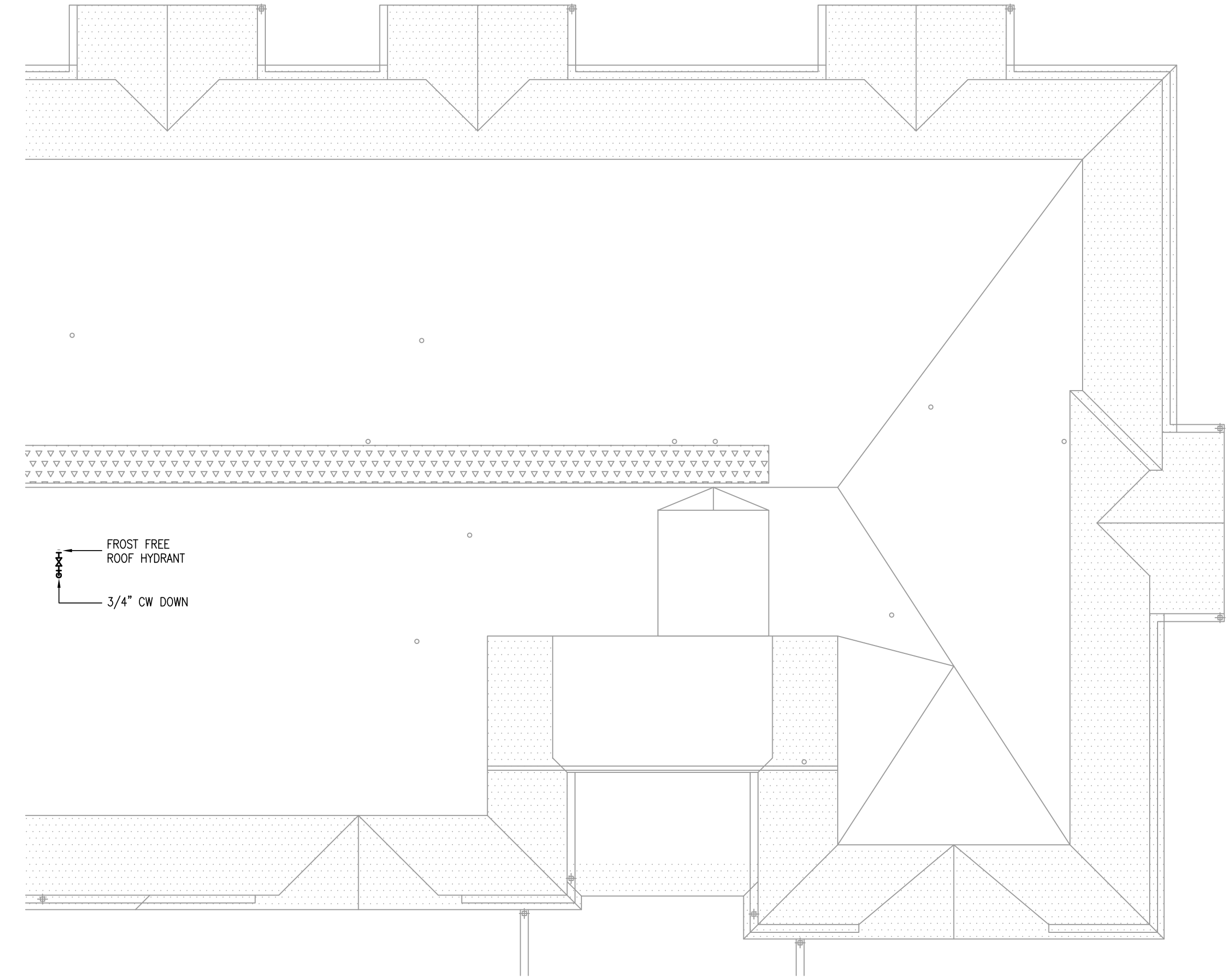
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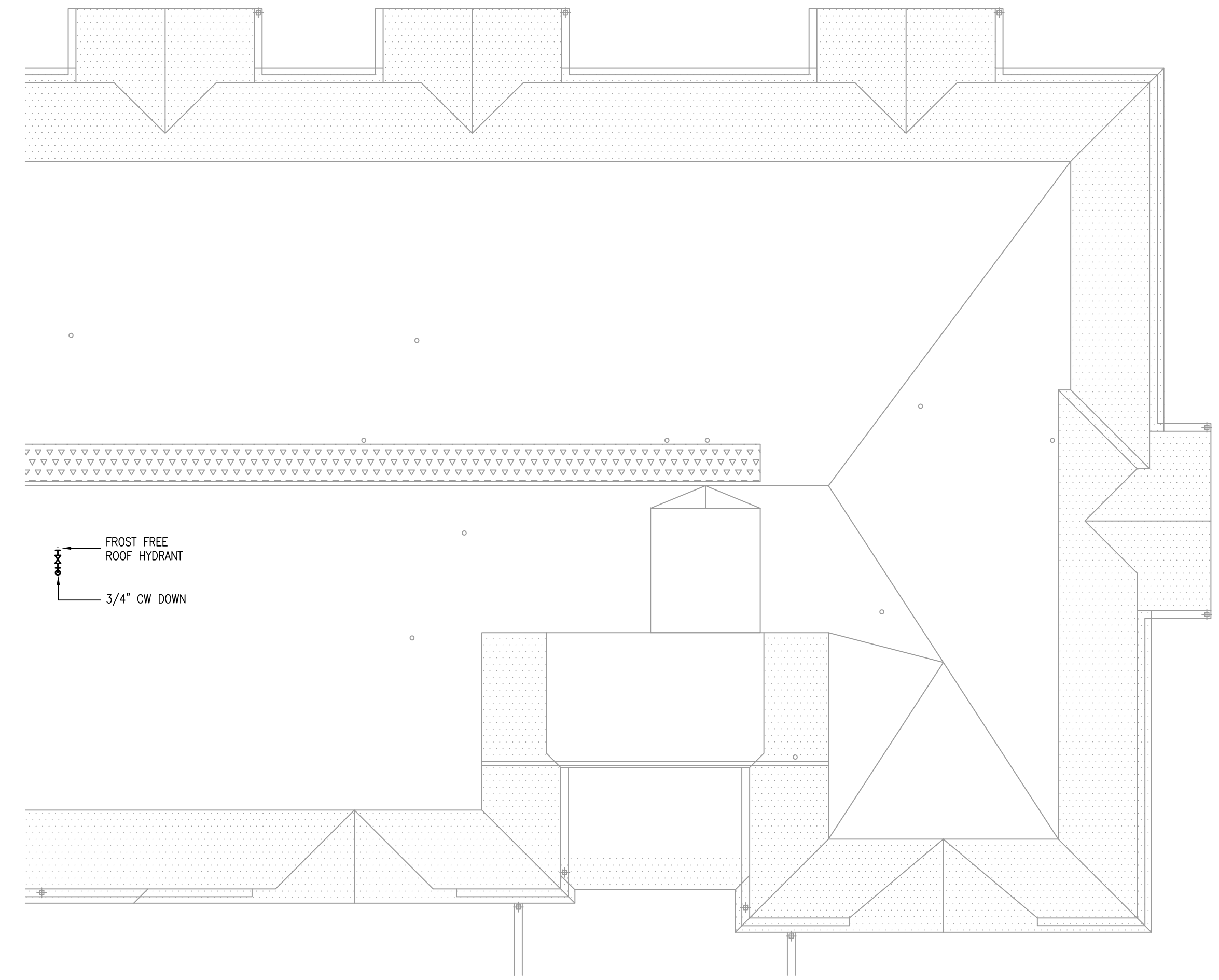
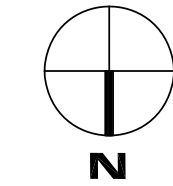
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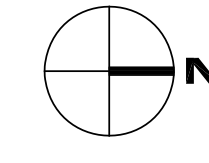
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**1** PLUMBING: BUILDING E, ROOF PLAN  
 P2.4 SCALE: 1/8" = 1'-0"

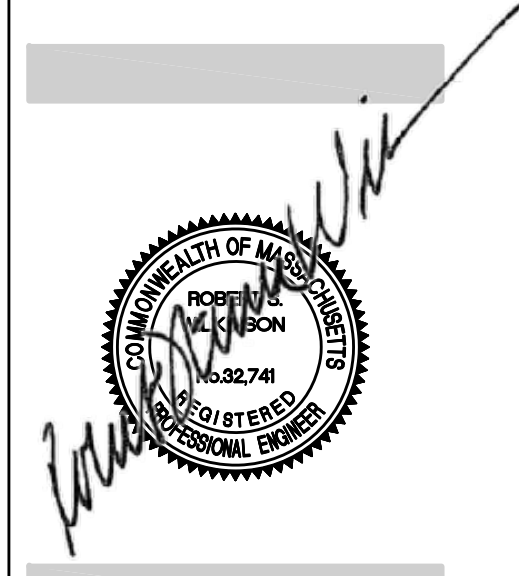


**2** PLUMBING: BUILDING F, ROOF PLAN  
 P2.4 SCALE: 1/8" = 1'-0"



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SHEET CONTENTS:  
 PLUMBING:  
 BUILDING E & F  
 ROOF PLANS  
 DOMESTIC H&CW

CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

PROJECT # 1420  
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**P2.4**



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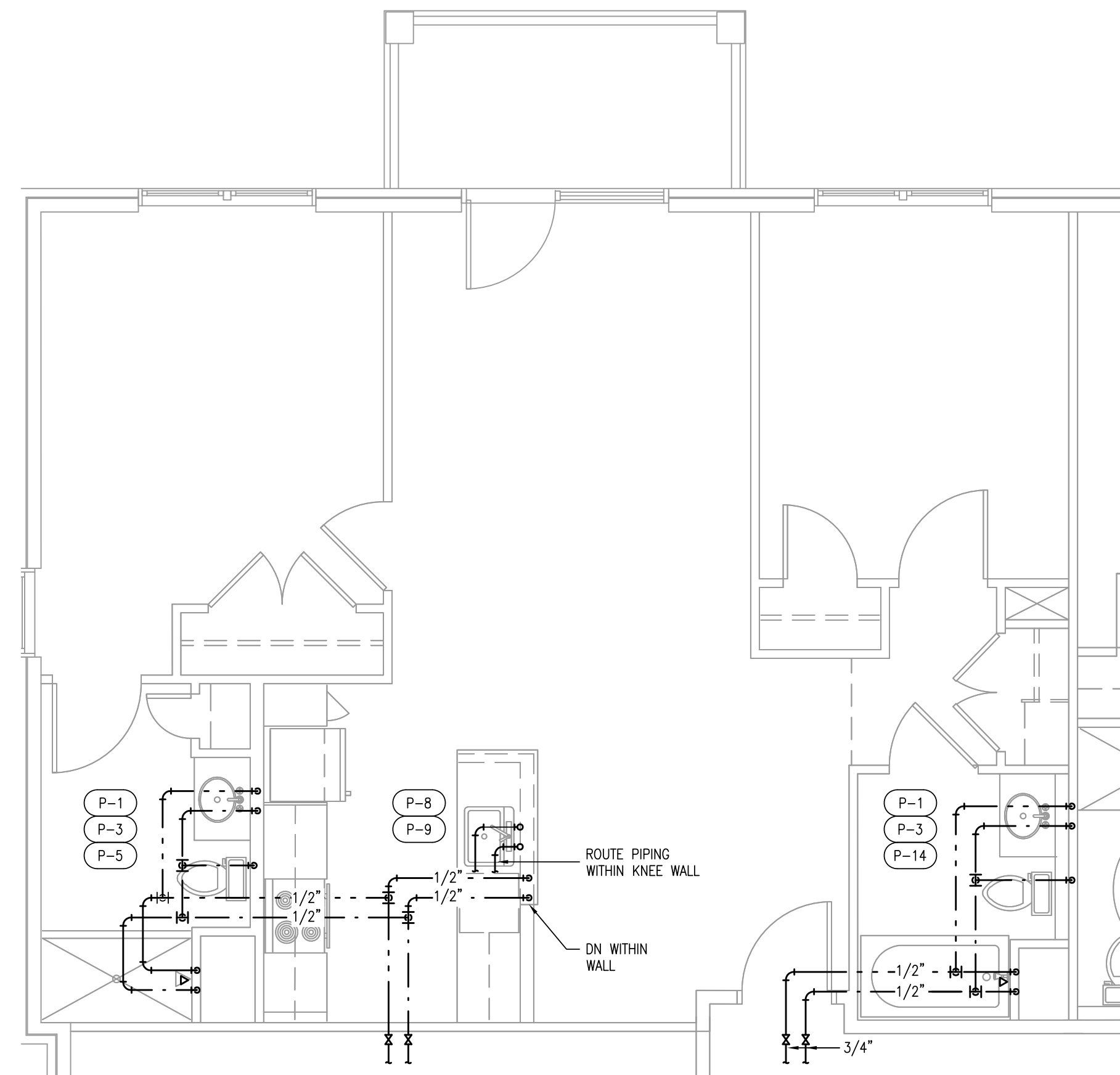
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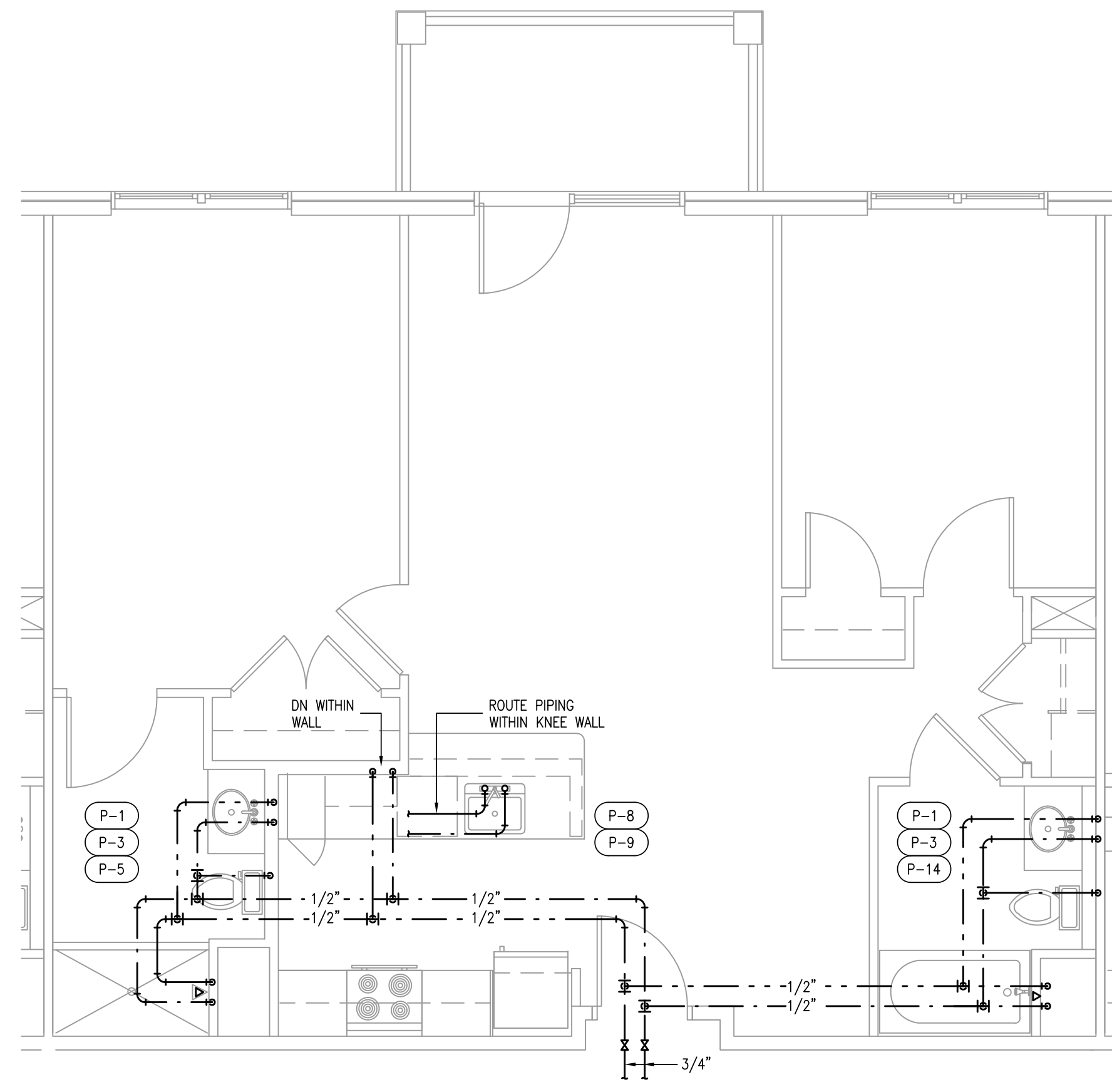
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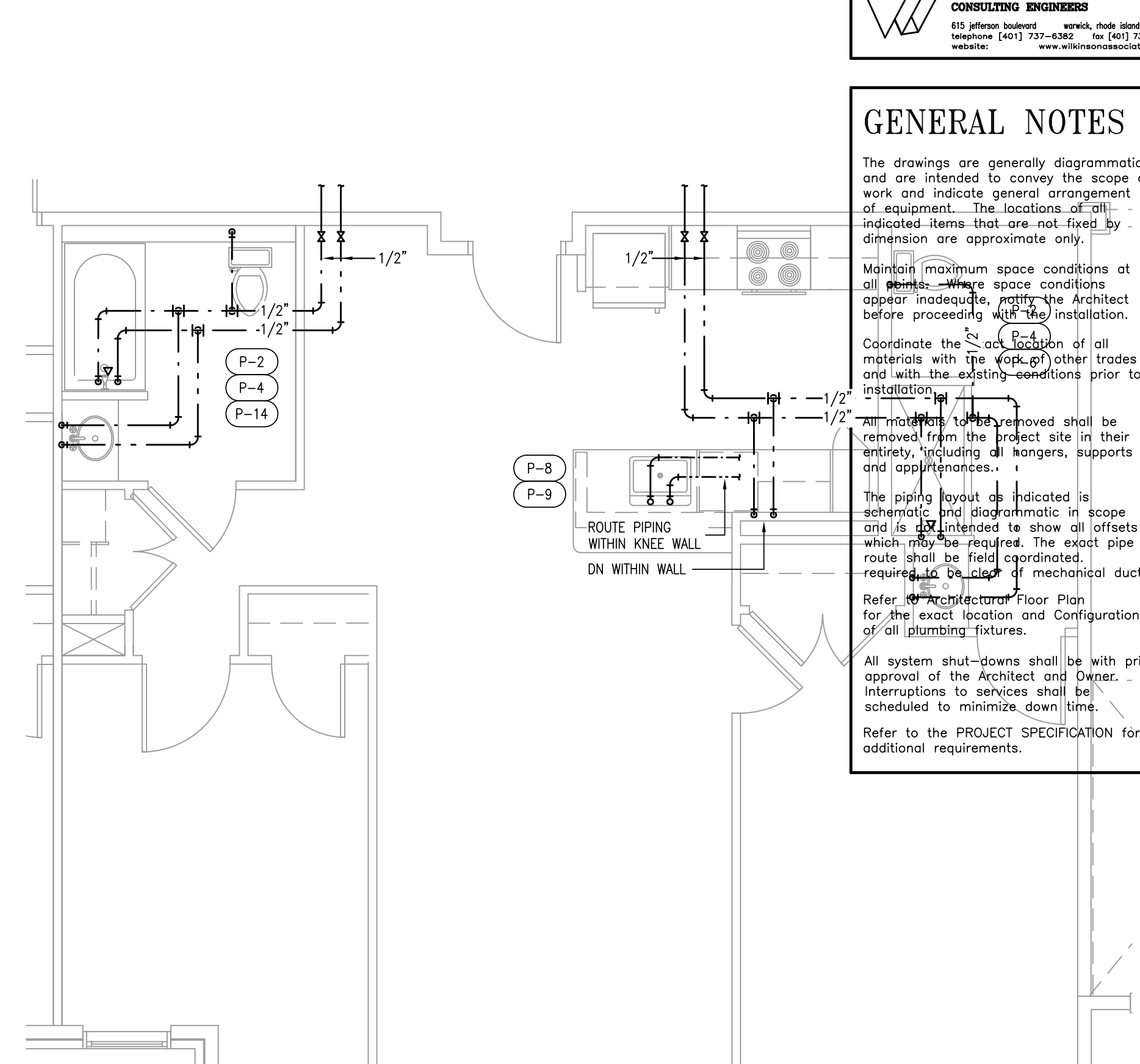
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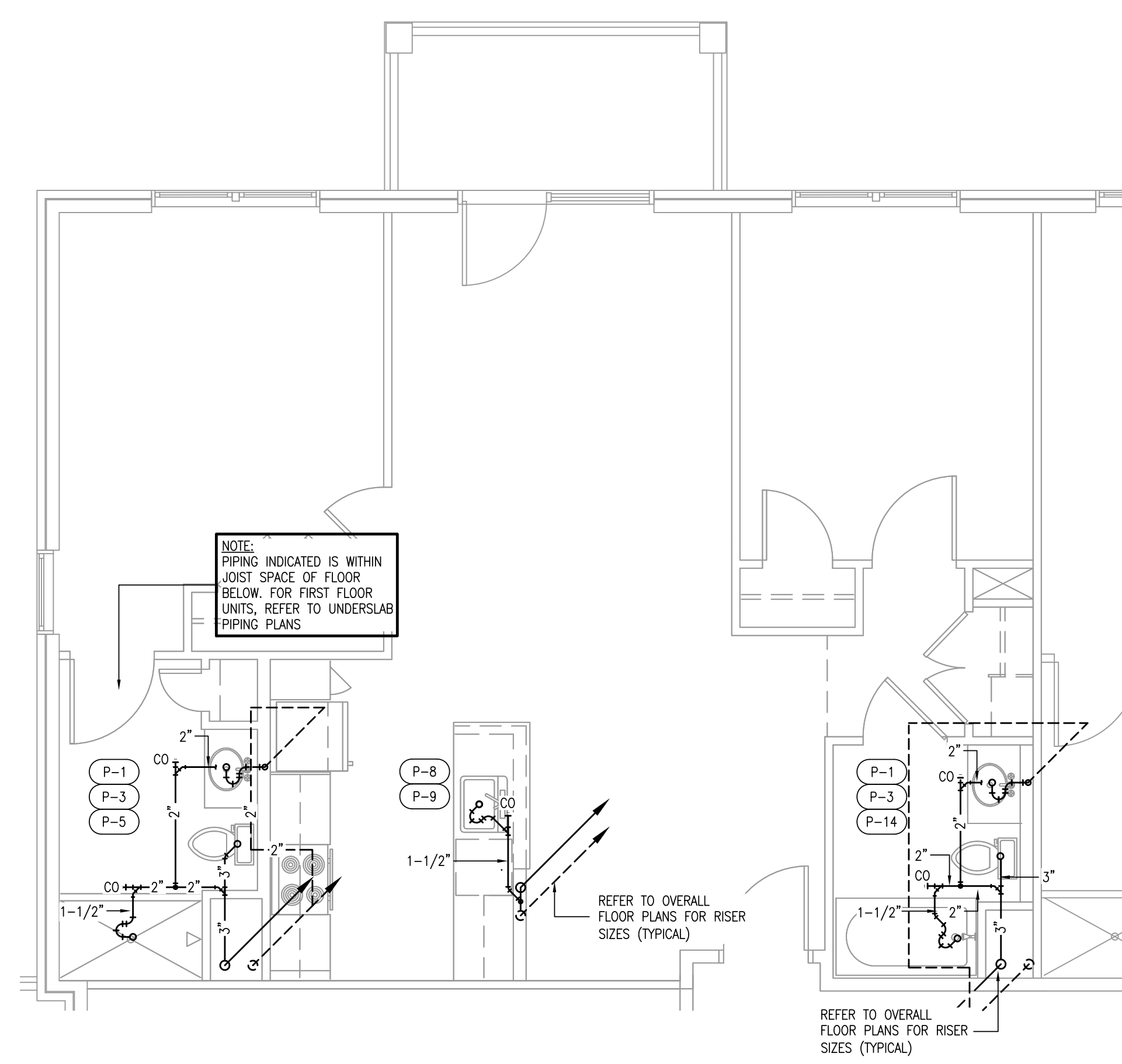
**1** TYPICAL UNIT TYPE 1 - DOMESTIC H&CW  
P3.0 SCALE: 1/4"=1'-0" TWO BEDROOM: GROUP 1



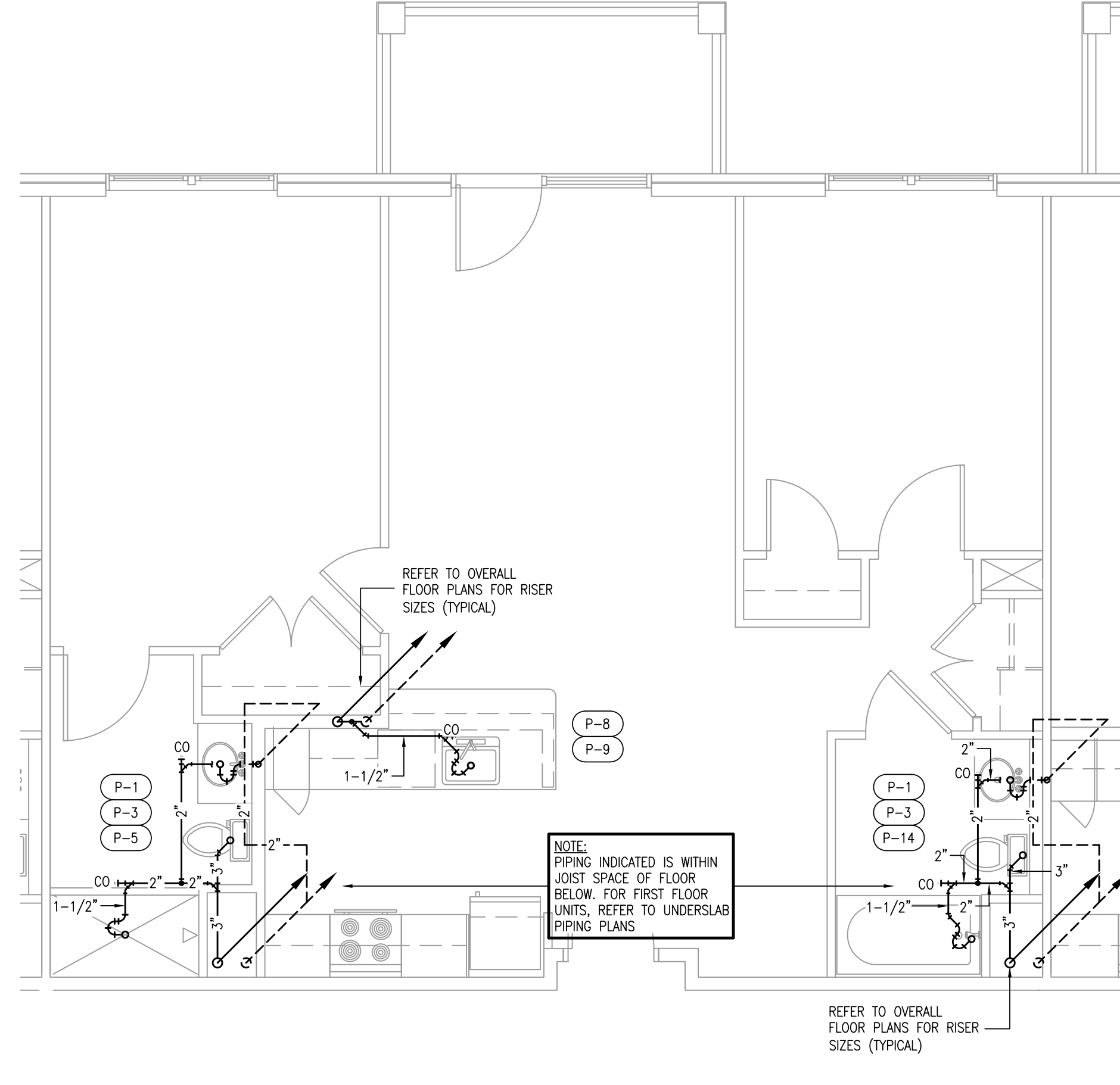
**2** TYPICAL UNIT TYPE 2 - DOMESTIC H&CW  
P3.0 SCALE: 1/4"=1'-0" TWO BEDROOM: GROUP 1



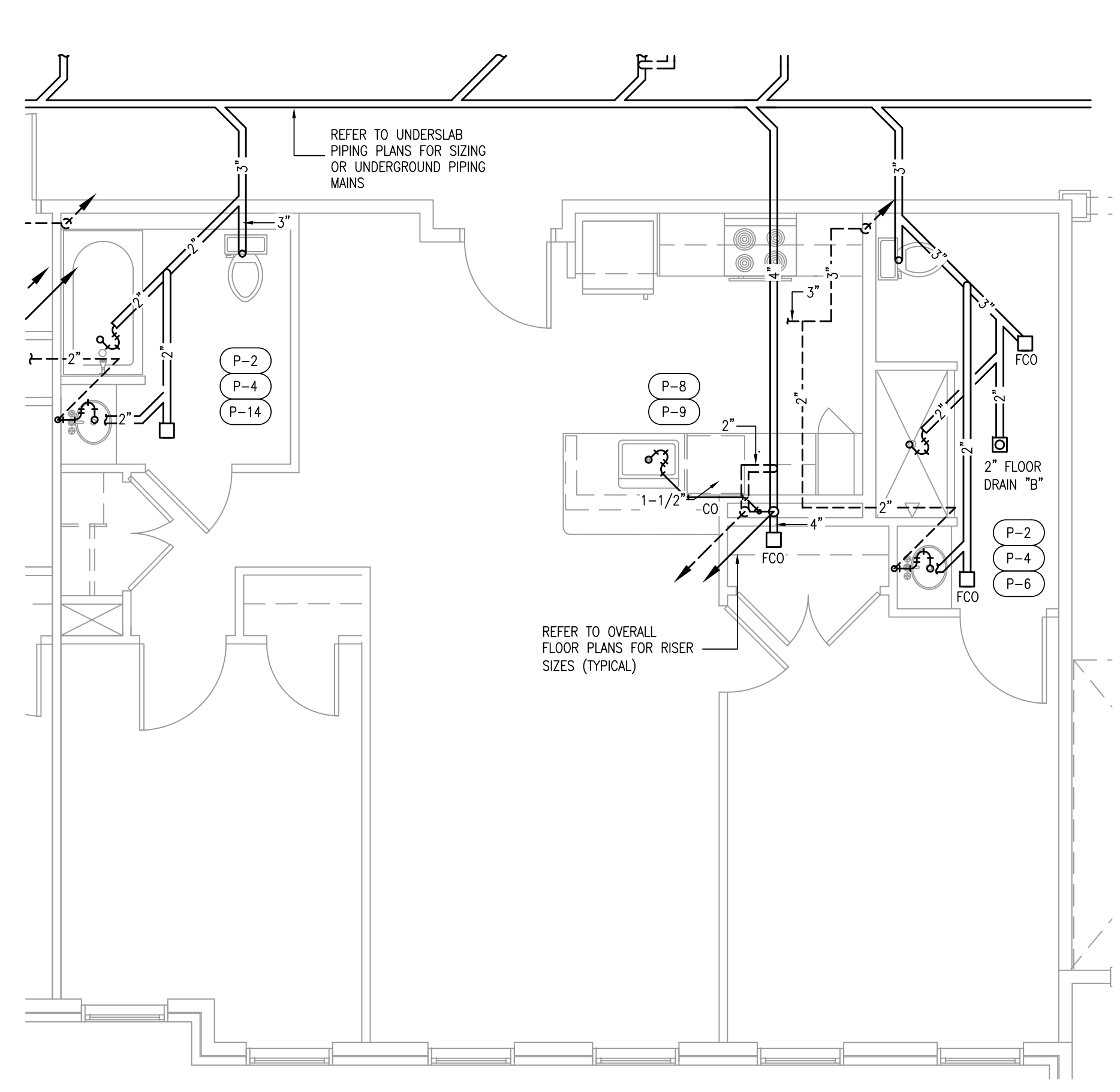
**3** TYPICAL UNIT TYPE 2.1 - DOMESTIC H&CW  
P3.0 SCALE: 1/4"=1'-0" TWO BEDROOM: ADA/ GROUP 2A



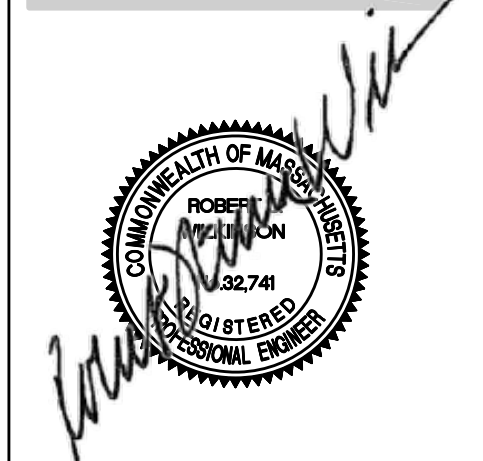
**4** TYPICAL UNIT TYPE 1 - SANITARY W&V  
P3.0 SCALE: 1/4"=1'-0" TWO BEDROOM: GROUP 1



**5** TYPICAL UNIT TYPE 2 - SANITARY W&V  
P3.0 SCALE: 1/4"=1'-0" TWO BEDROOM: GROUP 1



**6** TYPICAL UNIT TYPE 2.1 - SANITARY WASTE AND VENT  
P3.0 SCALE: 1/4"=1'-0" TWO BEDROOM: ADA/ GROUP 2A



SHEET CONTENTS:  
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PROJECT # 1420  
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REVIS: 02/16/2021

**P3.0**

CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

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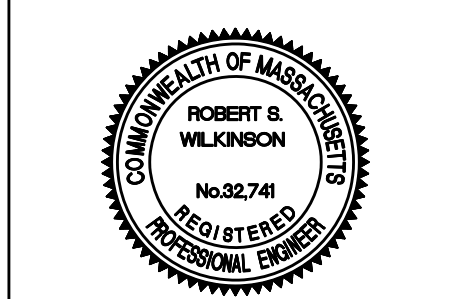
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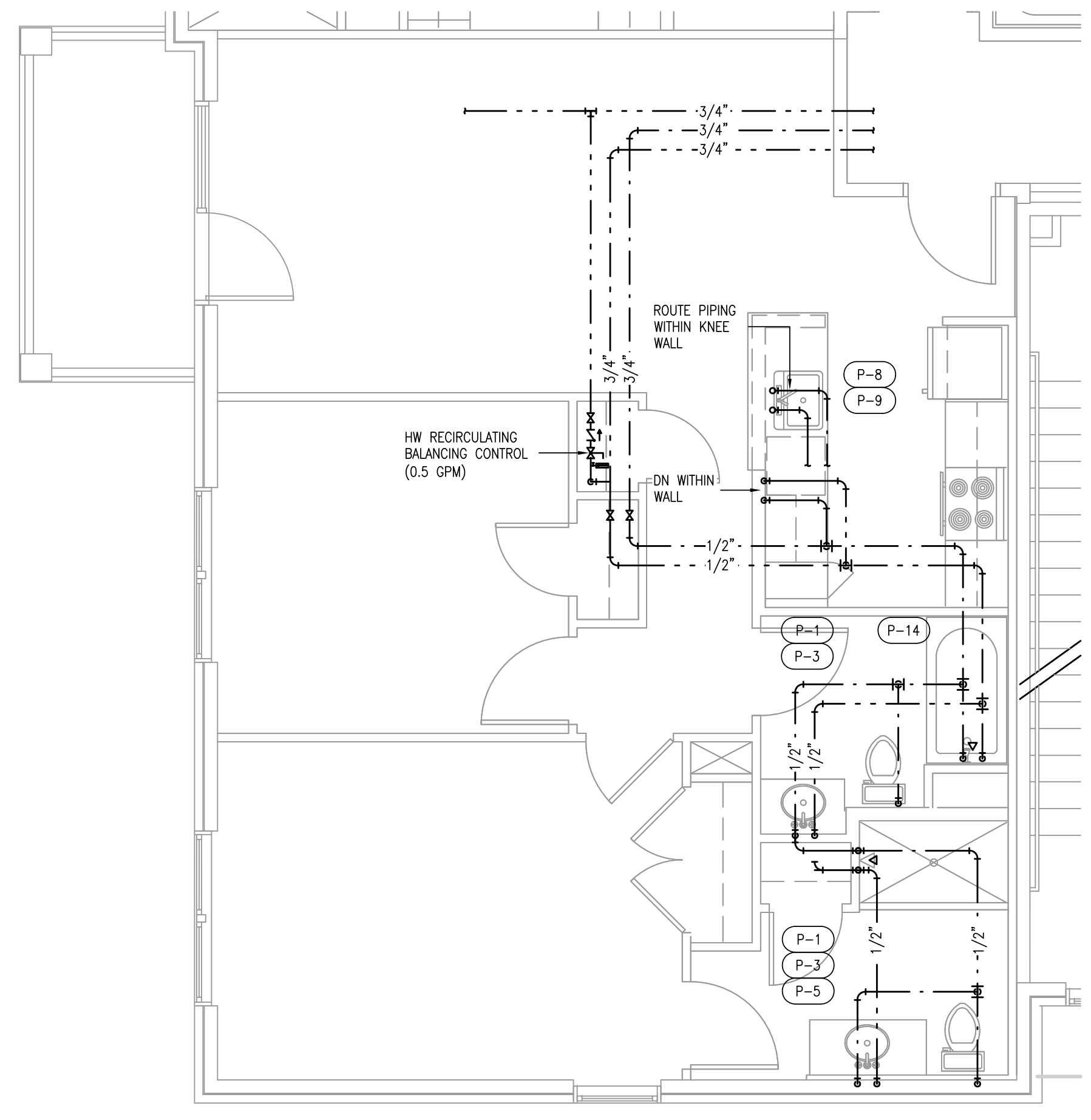


SHEET CONTENTS:  
PLUMBING:  
TYPICAL UNIT PLANS

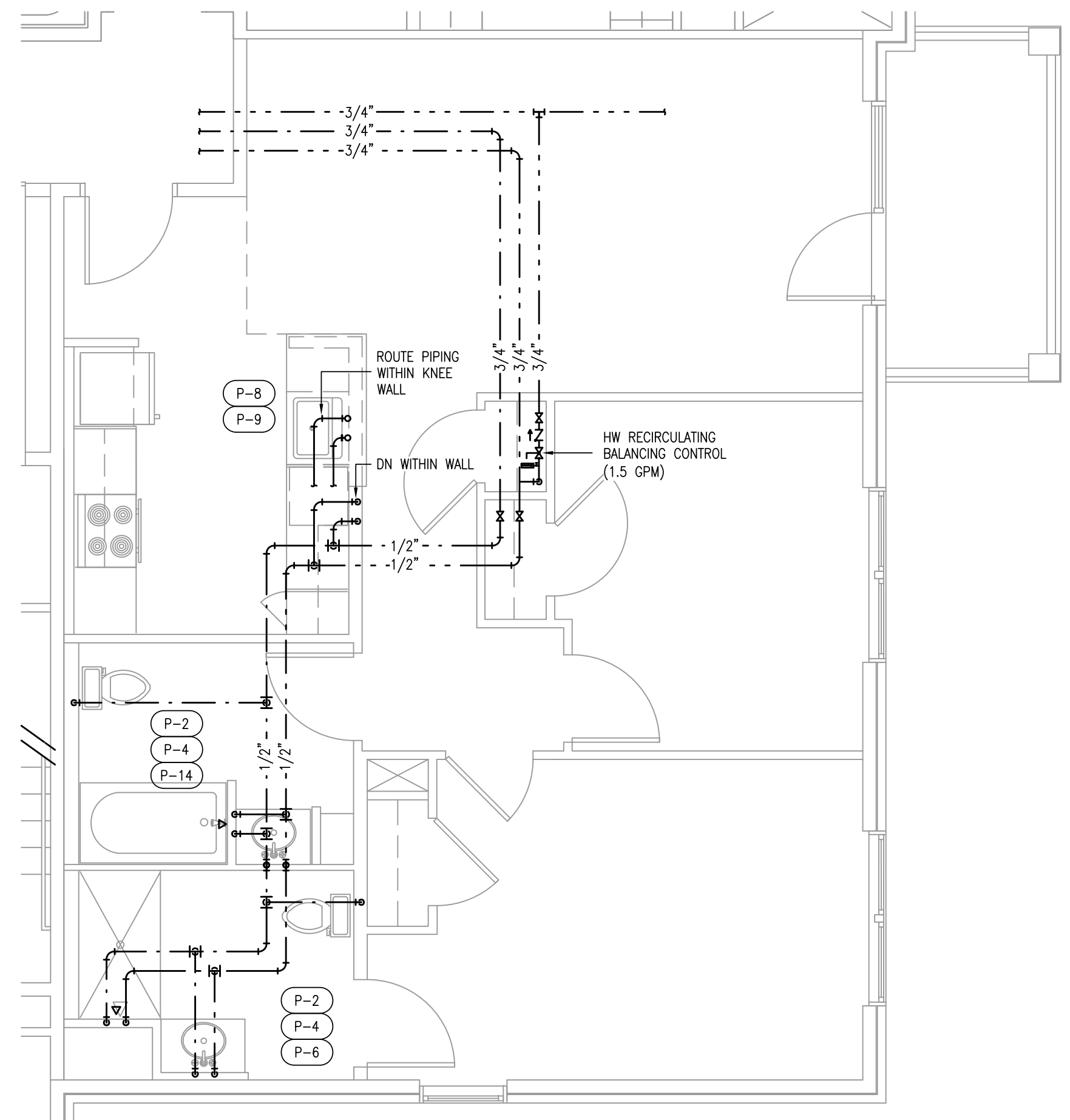
PROJECT # 1420  
DATE: 9/22/2020  
REVISED DATE:  
REVIS: 02/16/2021

**P3.1**

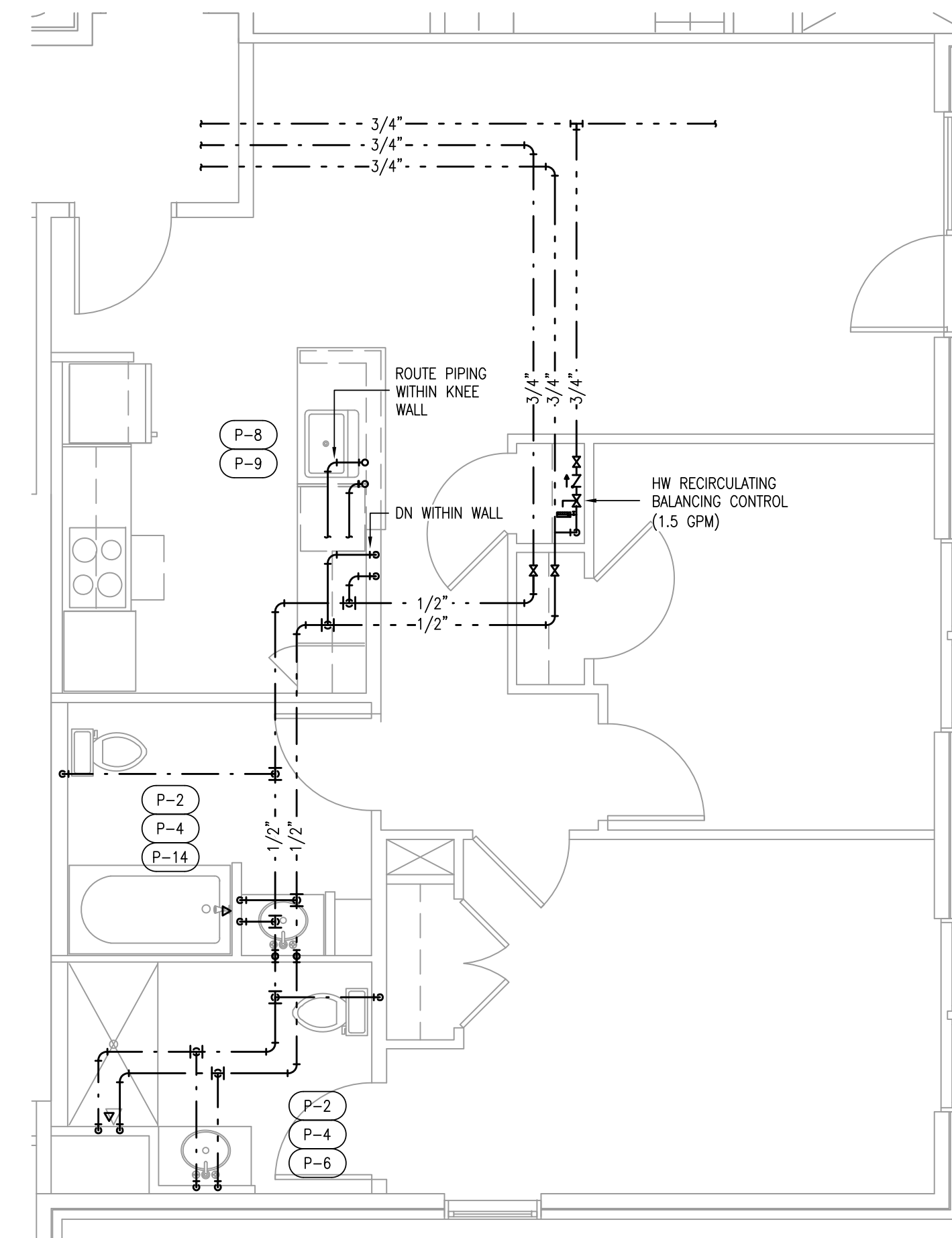
CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021



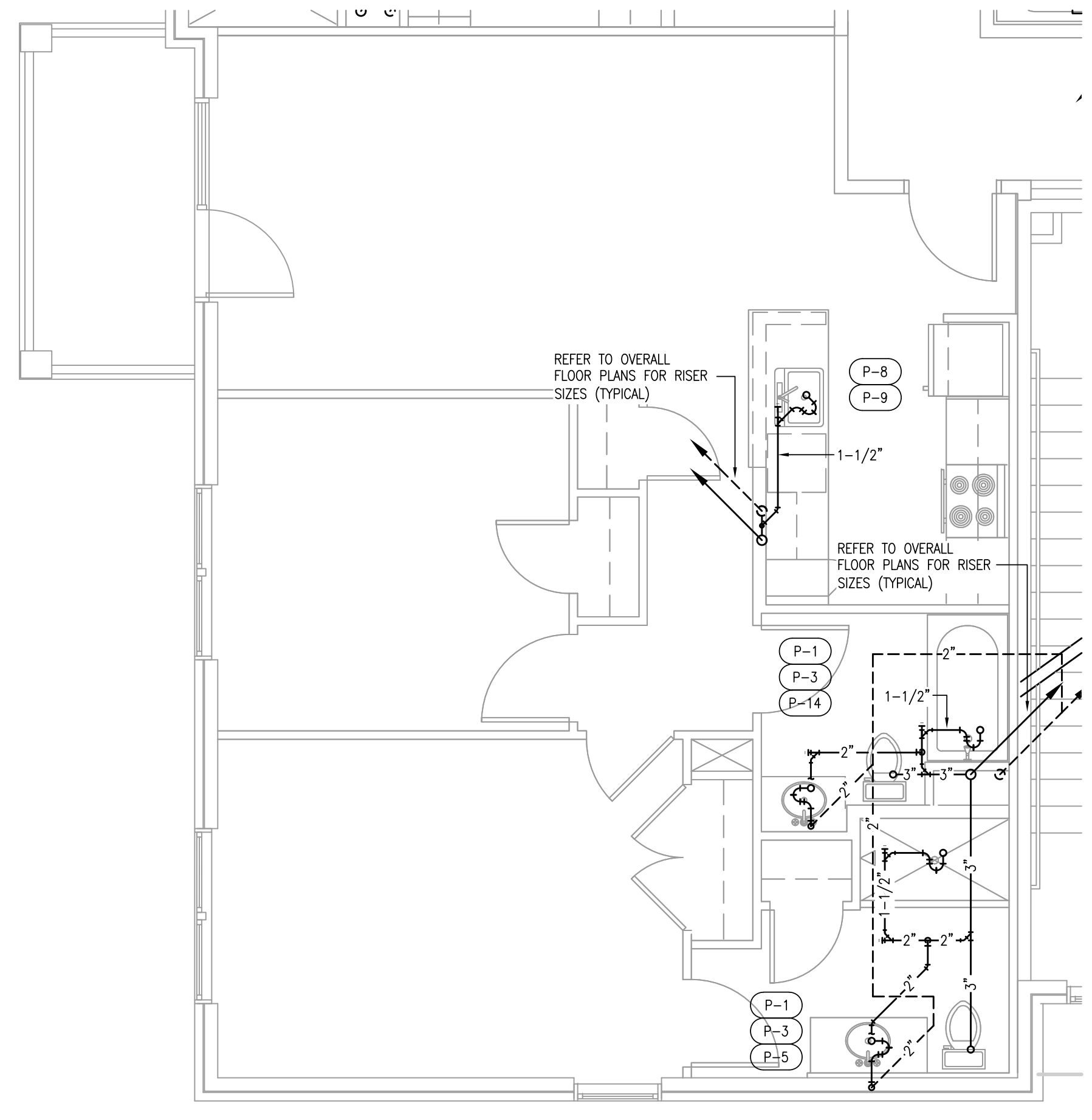
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P3.1 SCALE: 1/4"=1'-0" TWO BEDROOM: GROUP 1



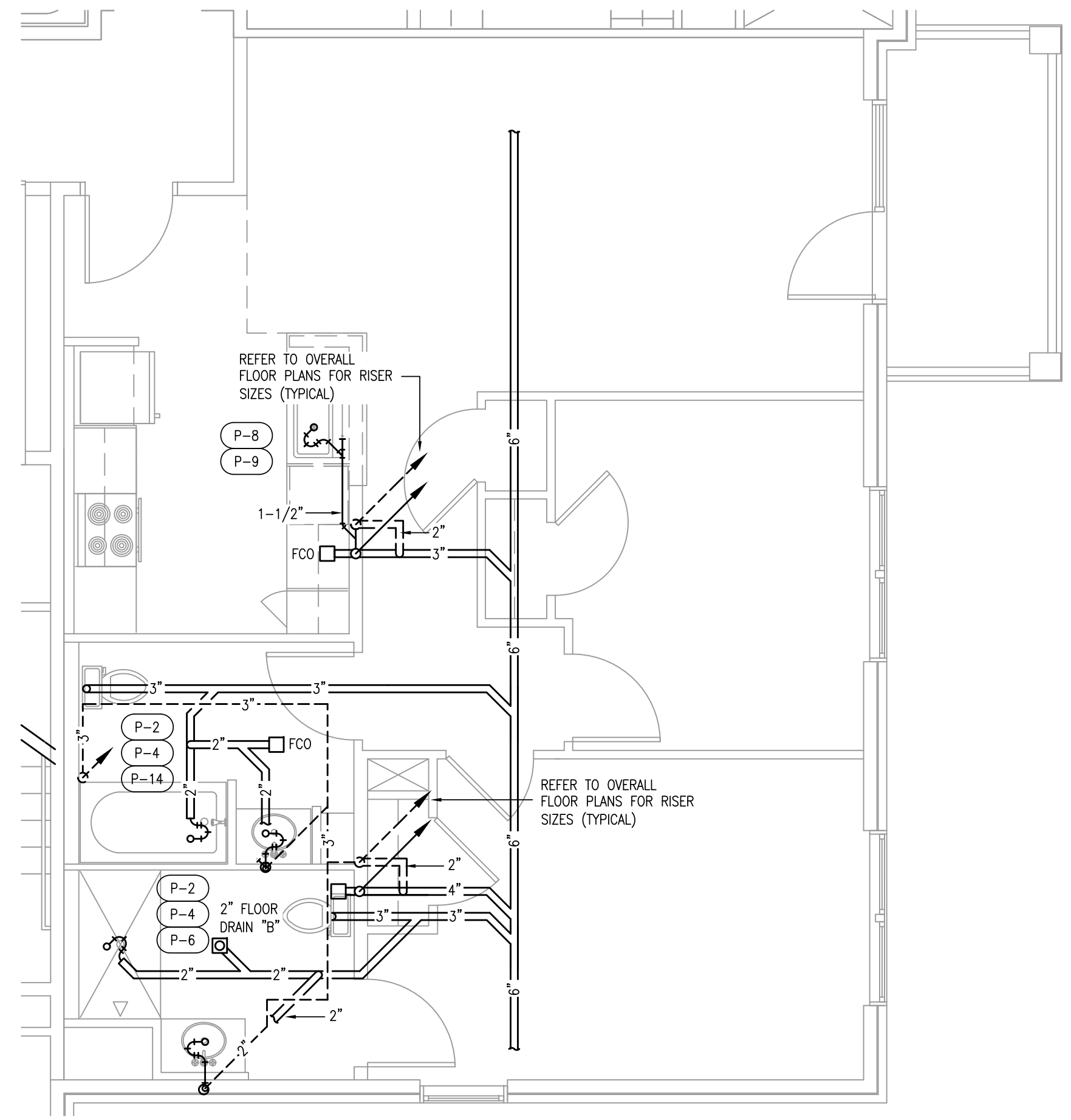
**2** TYPICAL UNIT TYPE 3.1 - DOMESTIC H&CW  
P3.1 SCALE: 1/4"=1'-0" TWO BEDROOM: ADA



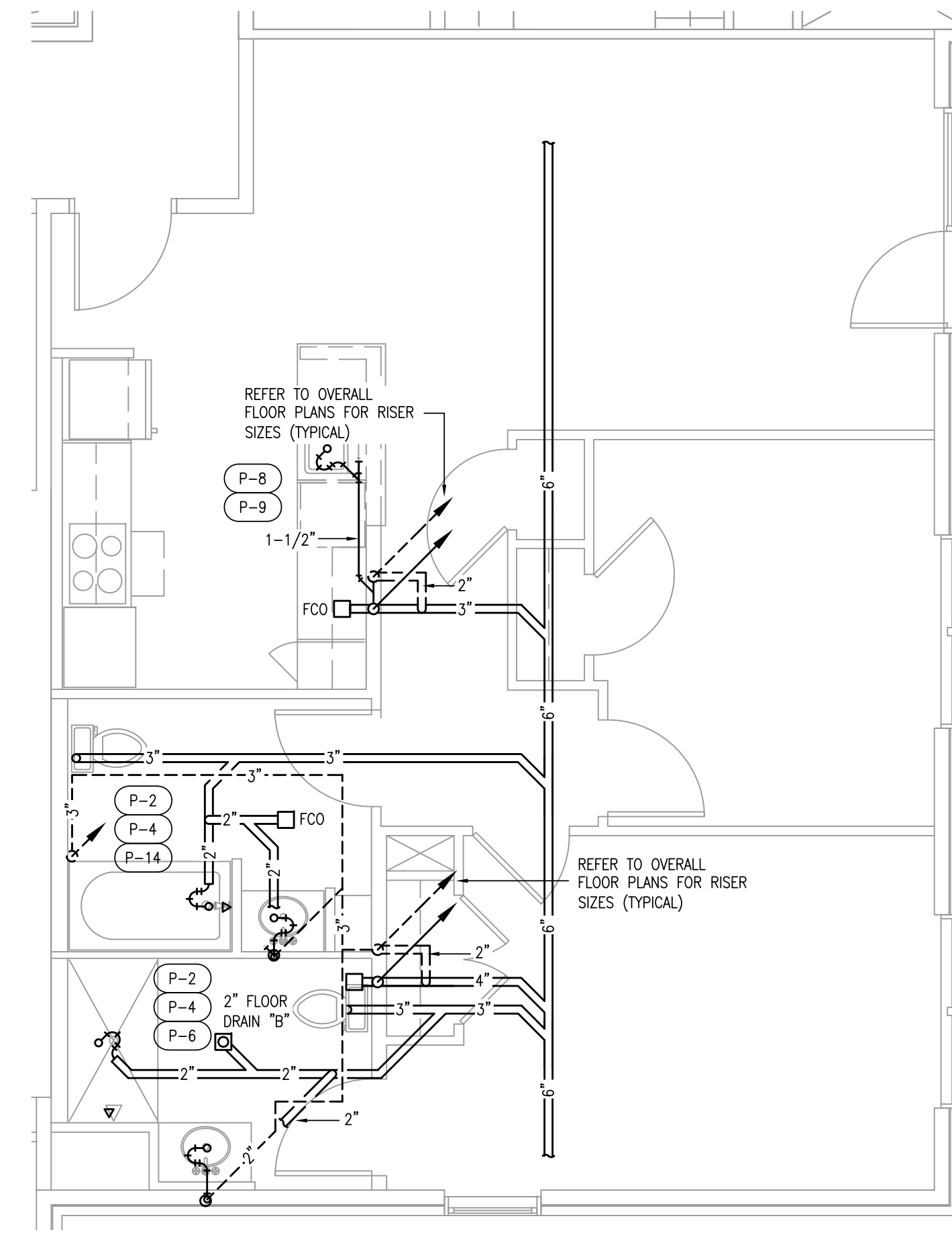
**3** TYPICAL UNIT TYPE 3.2 - DOMESTIC H&CW  
P3.1 SCALE: 1/4"=1'-0" TWO BEDROOM: GROUP 2A



**4** TYPICAL UNIT TYPE 3 - SANITARY W&V  
P3.1 SCALE: 1/4"=1'-0" TWO BEDROOM: GROUP 1



**5** TYPICAL UNIT TYPE 3.1 - SANITARY W&V  
P3.1 SCALE: 1/4"=1'-0" TWO BEDROOM: ADA



**6** TYPICAL UNIT TYPE 3.2 - SANITARY W&V  
P3.1 SCALE: 1/4"=1'-0" TWO BEDROOM: GROUP 2A

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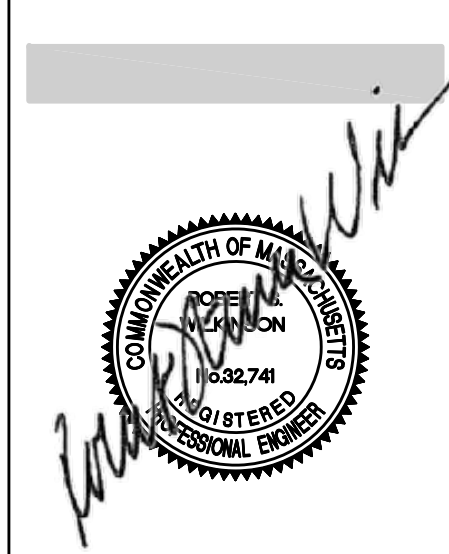
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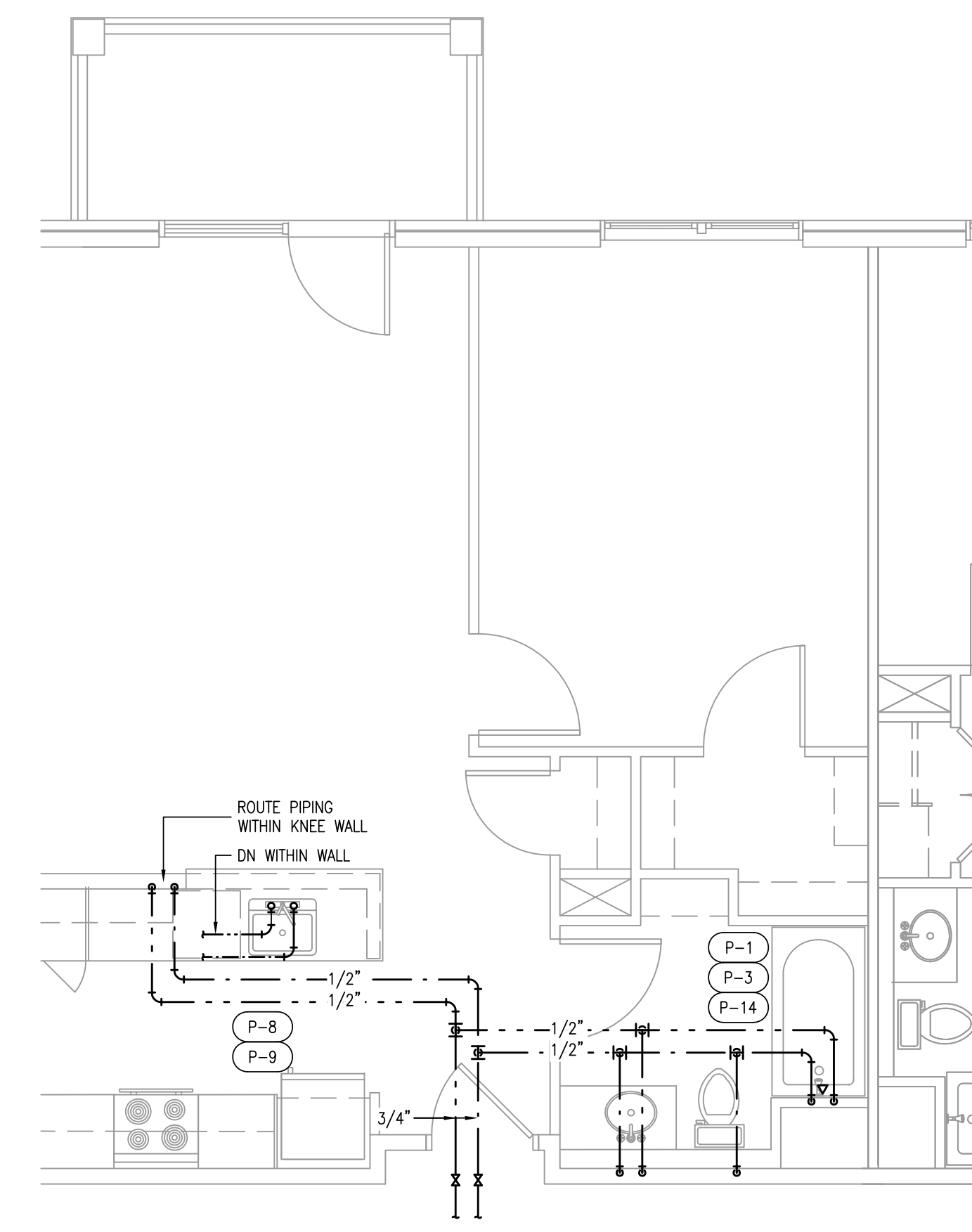
SHEET CONTENTS:  
PLUMBING:  
TYPICAL UNIT PLANS

PROJECT # 1420

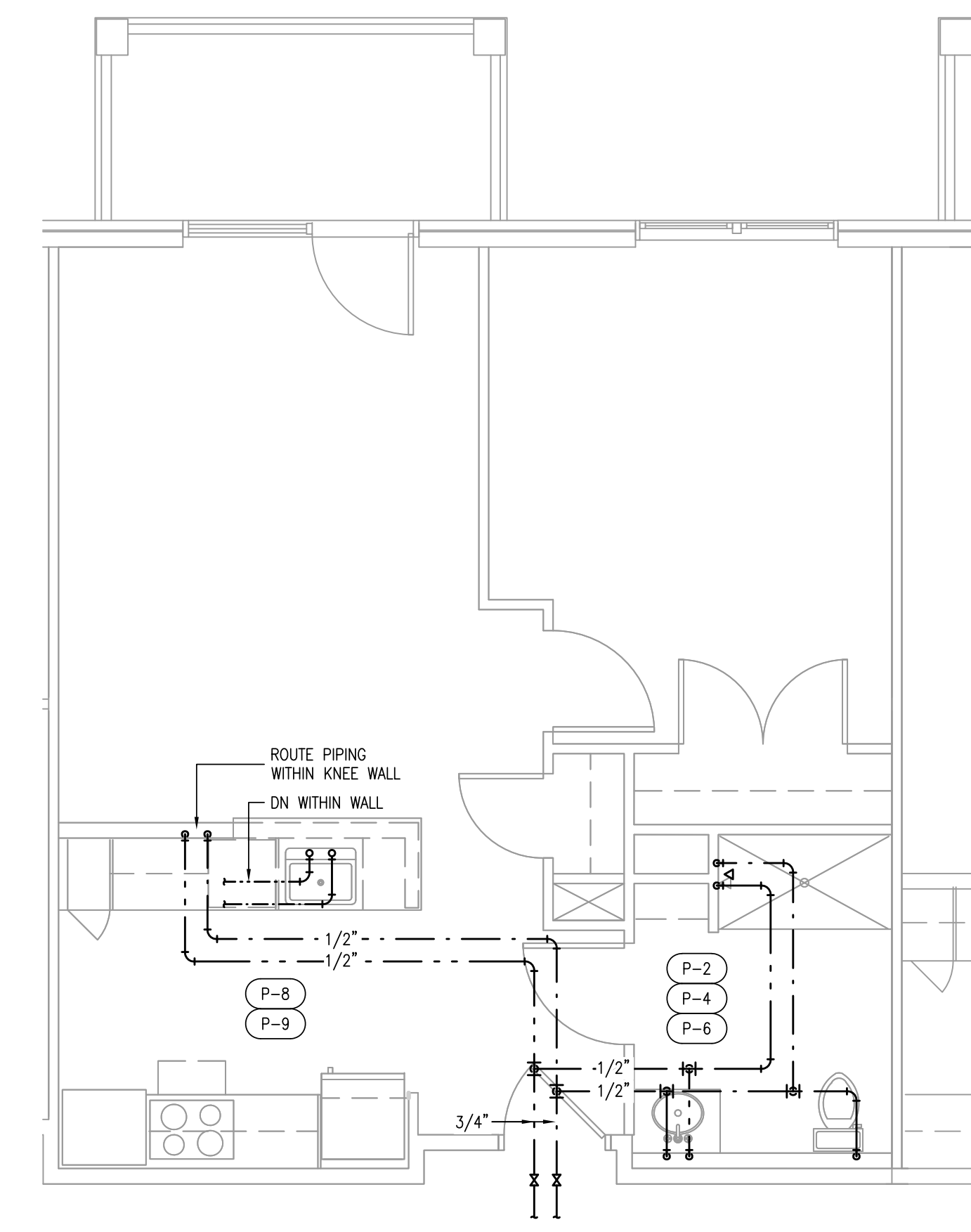
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REVISED DATE:  
REVIS: 02/16/2021

**P3.2**

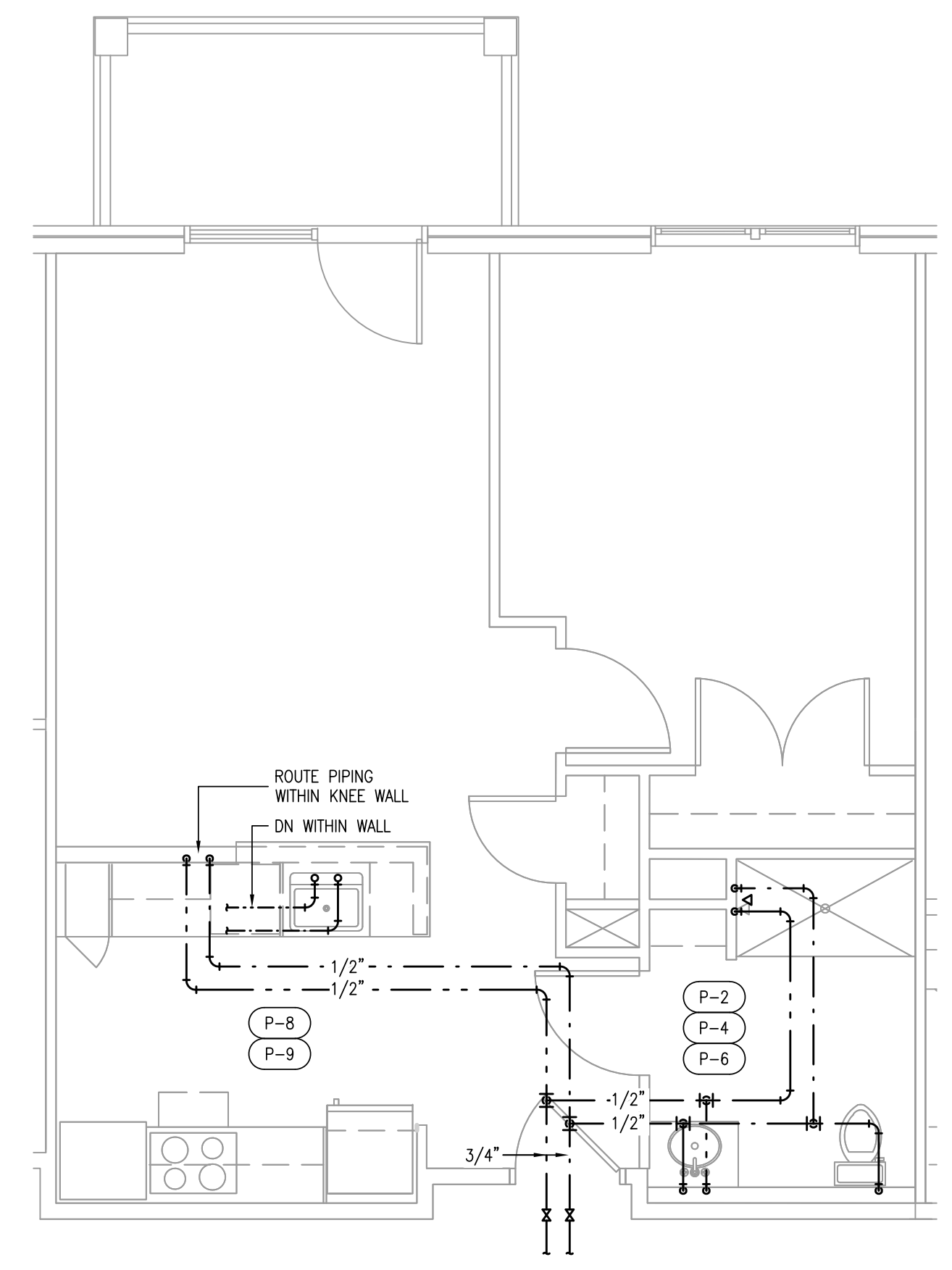
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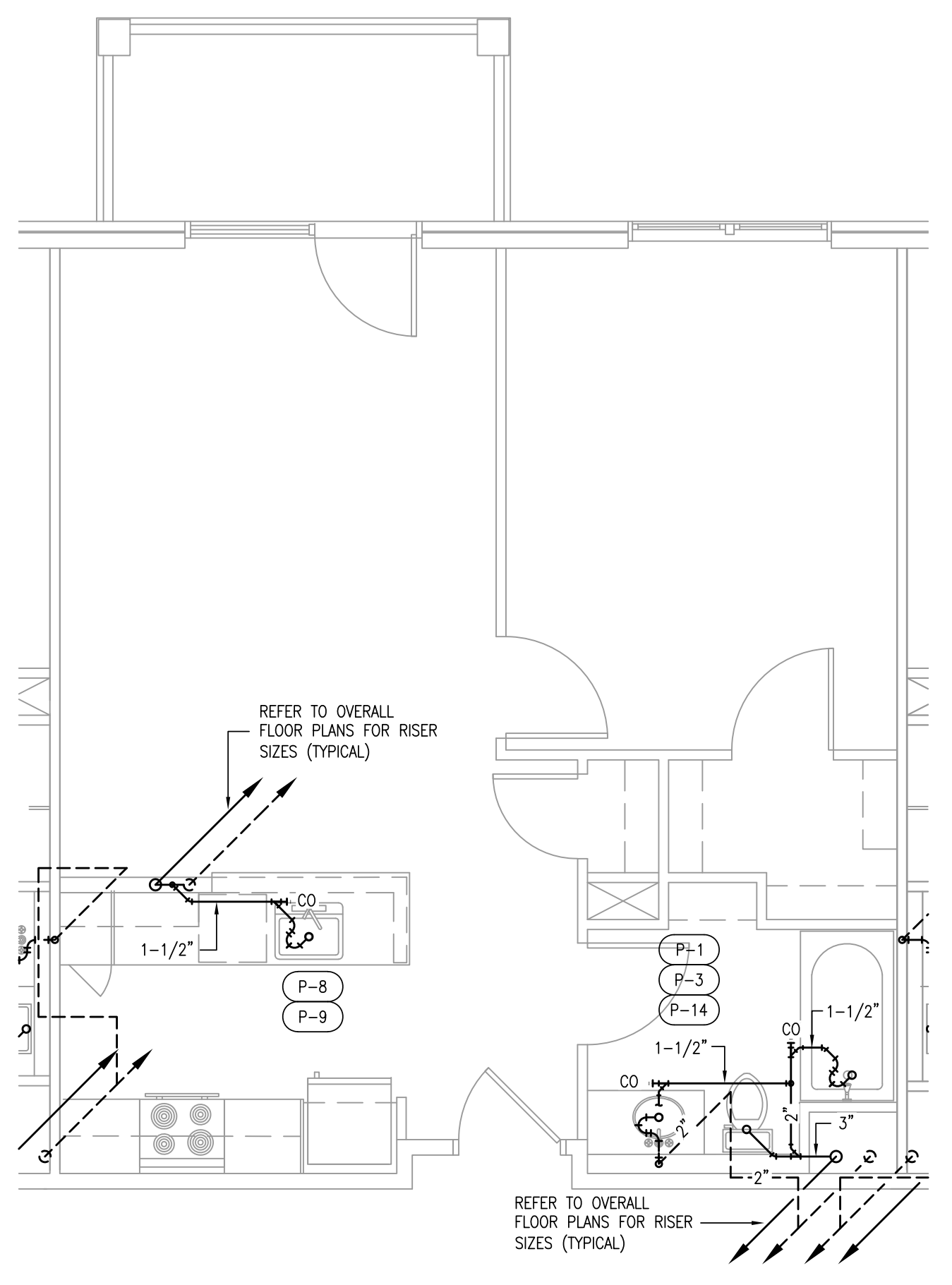
**1** TYPICAL UNIT TYPE 4 - DOMESTIC H&CW  
P3.2 SCALE: 1/4"=1'-0" ONE BEDROOM: GROUP 1



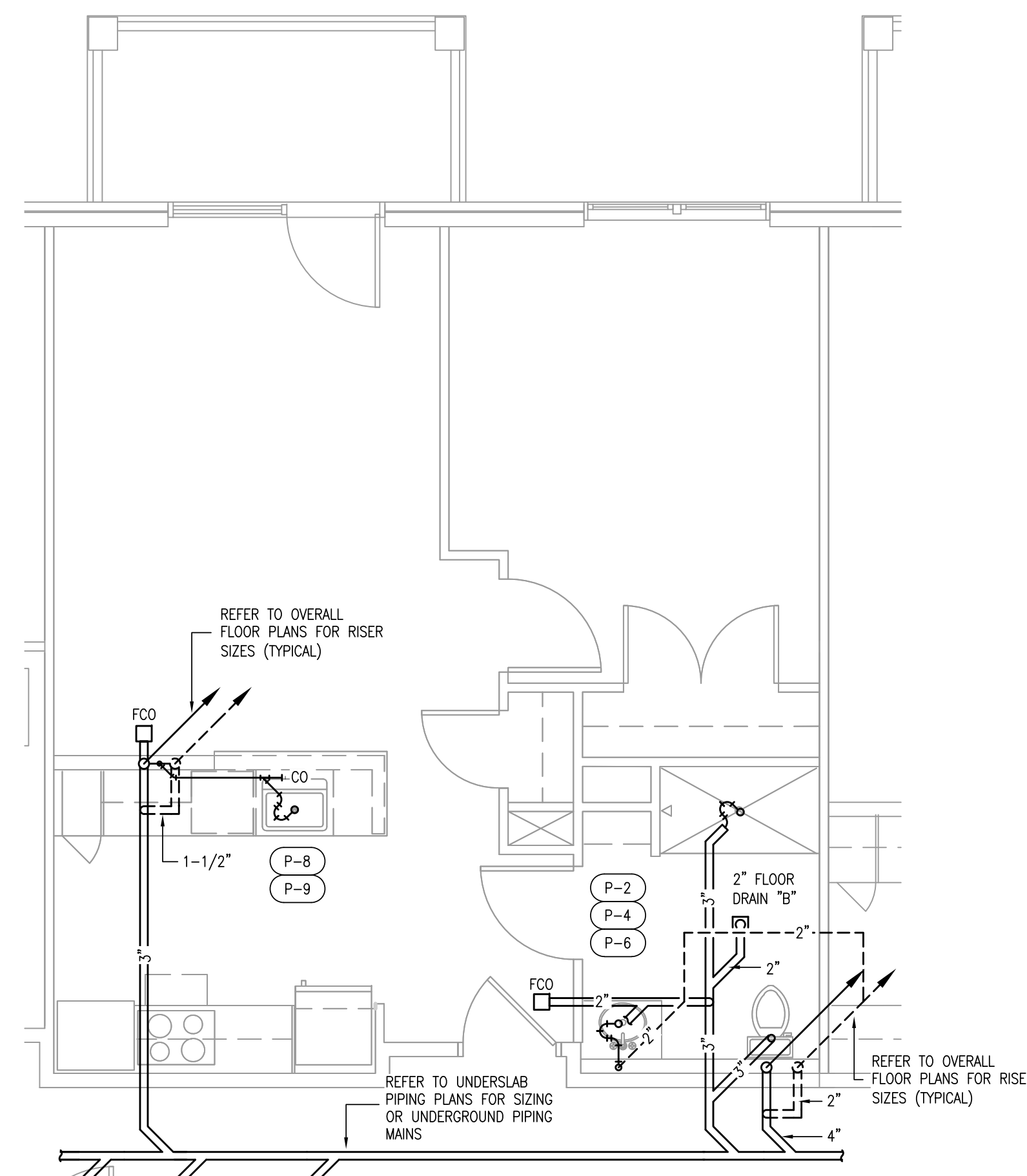
**2** TYPICAL UNIT TYPE 4.1 - DOMESTIC H&CW  
P3.2 SCALE: 1/4"=1'-0" ONE BEDROOM: ADA



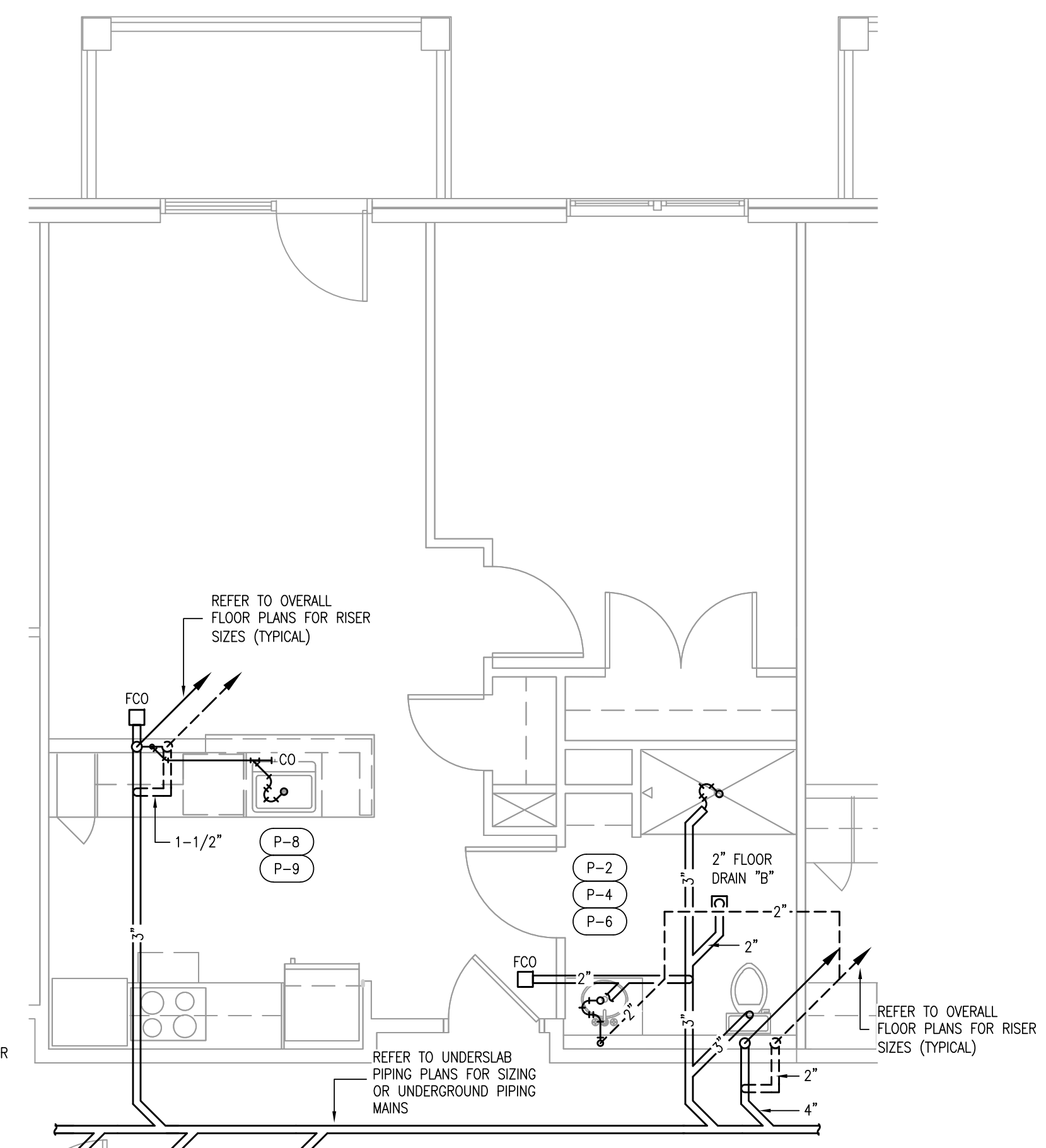
**3** TYPICAL UNIT TYPE 4.2 - DOMESTIC H&CW  
P3.2 SCALE: 1/4"=1'-0" ONE BEDROOM: GROUP 2A



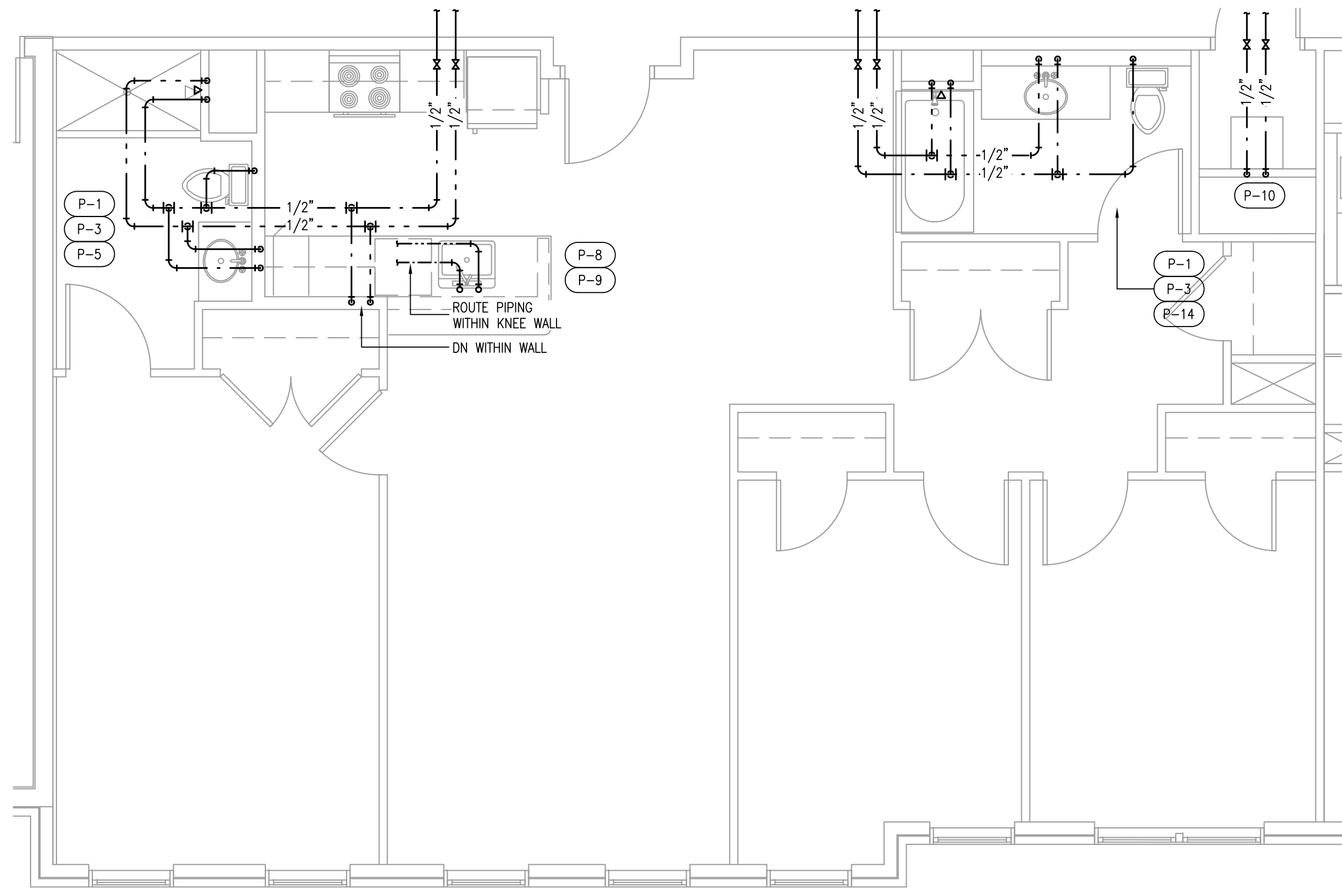
**4** TYPICAL UNIT TYPE 4 - SANITARY W&V  
P3.2 SCALE: 1/4"=1'-0" ONE BEDROOM: GROUP 1



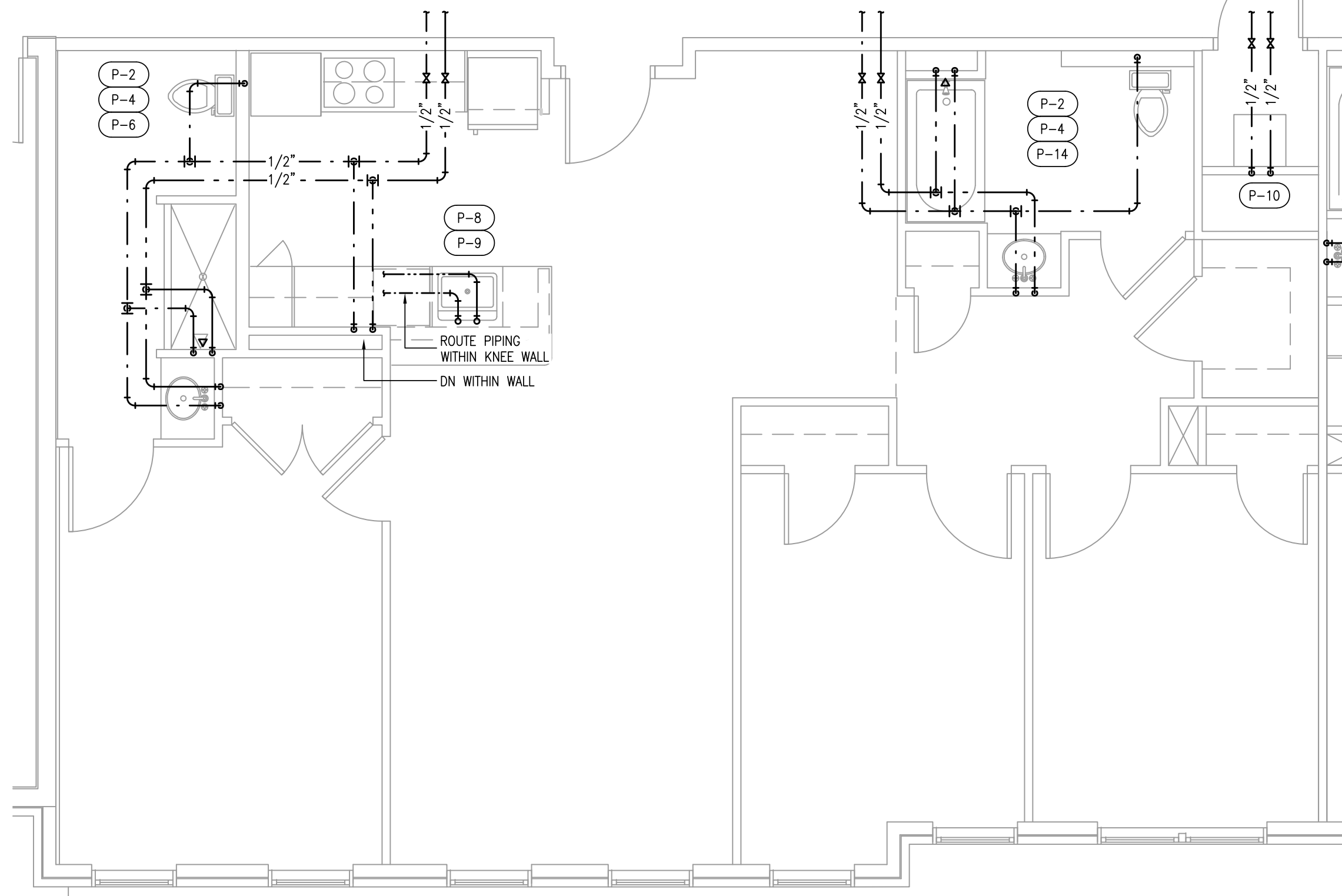
**5** TYPICAL UNIT TYPE 4.1 - SANITARY W&V  
P3.2 SCALE: 1/4"=1'-0" ONE BEDROOM: ADA



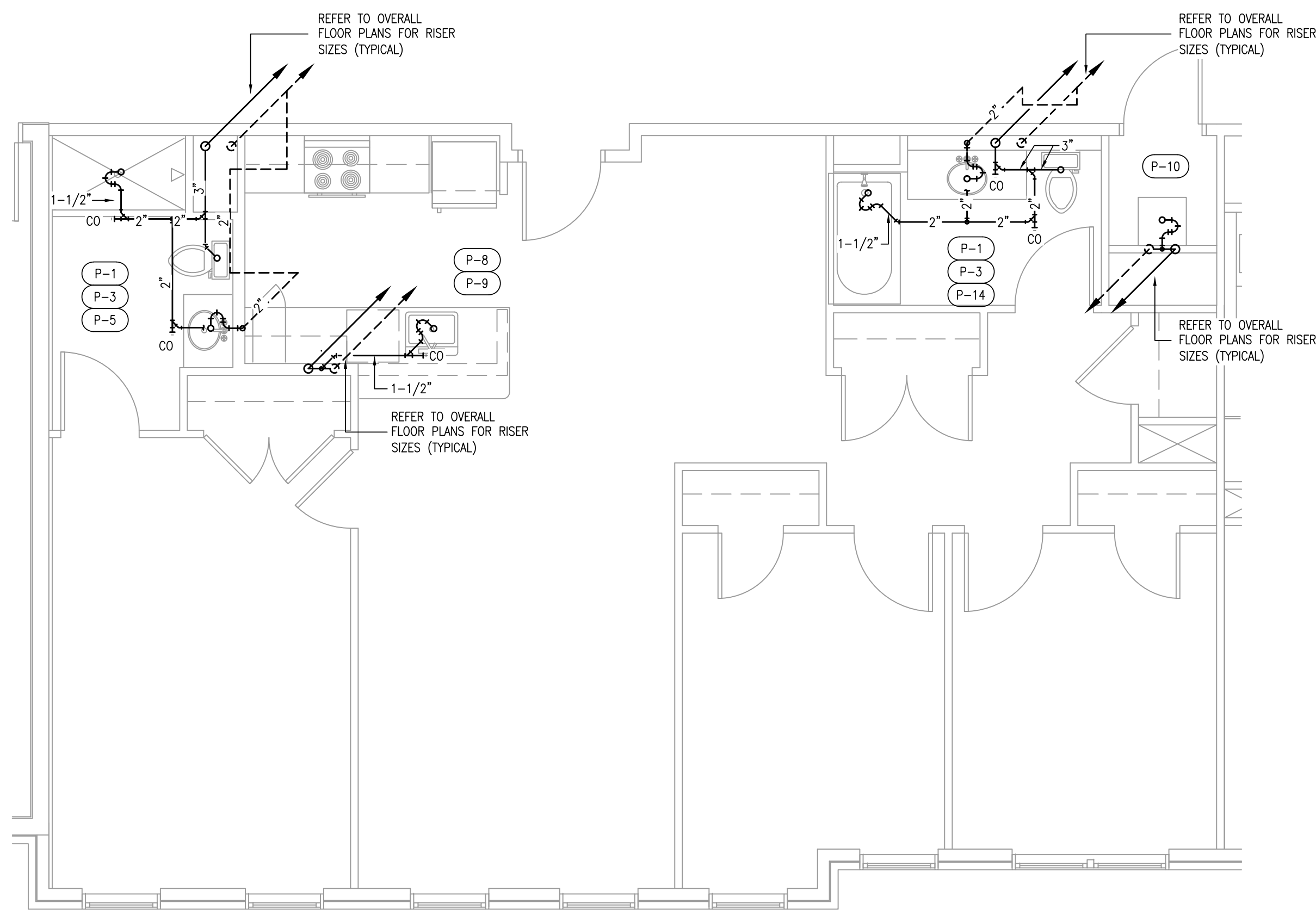
**6** TYPICAL UNIT TYPE 4.2 - SANITARY W&V  
P3.2 SCALE: 1/4"=1'-0" ONE BEDROOM: GROUP 2A



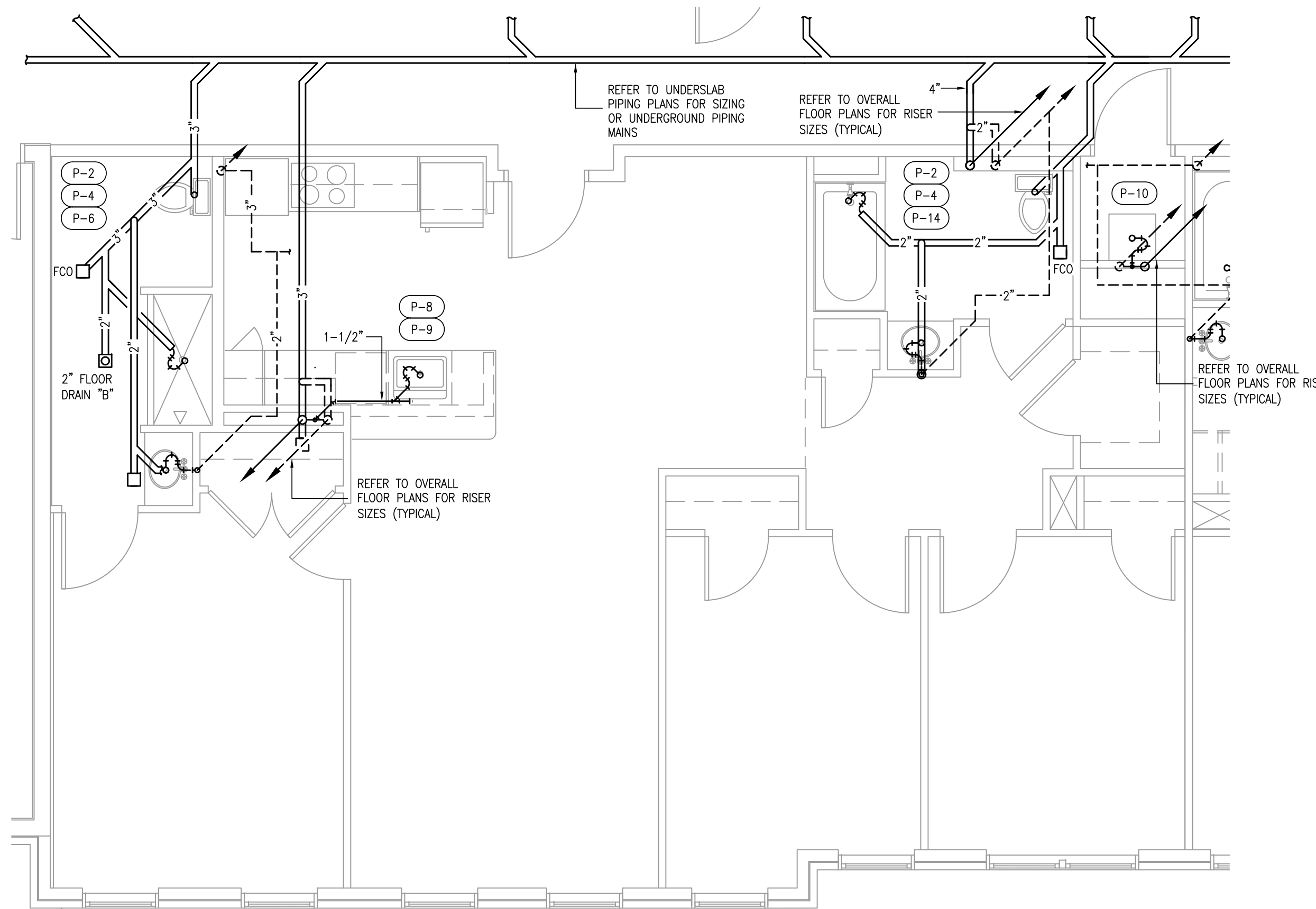
**1** TYPICAL UNIT TYPE 5 - DOMESTIC H&CW  
 P3.3 SCALE: 1/4"=1'-0" THREE BEDROOM: GROUP 1



**2** TYPICAL UNIT TYPE 5.1 - DOMESTIC H&CW  
 P3.3 SCALE: 1/4"=1'-0" THREE BEDROOM: ADA



**3** TYPICAL UNIT TYPE 5 - SANITARY W&V  
 P3.3 SCALE: 1/4"=1'-0" THREE BEDROOM: GROUP 1



**4** TYPICAL UNIT TYPE 5.1 - SANITARY W&V  
 P3.3 SCALE: 1/4"=1'-0" THREE BEDROOM: ADA



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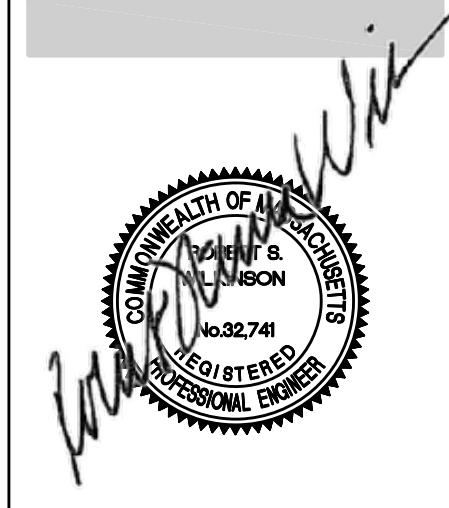
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**Ed Wojcik**  
 architect, ltd  
 One Richmond Square  
 Providence, RI 02906  
 401-861-7139

Proposed Design for:  
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 Phase I  
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 3102 Cranberry Highway  
 Wareham, MA 02532



SHEET CONTENTS:  
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PROJECT # 1420  
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**P3.3**

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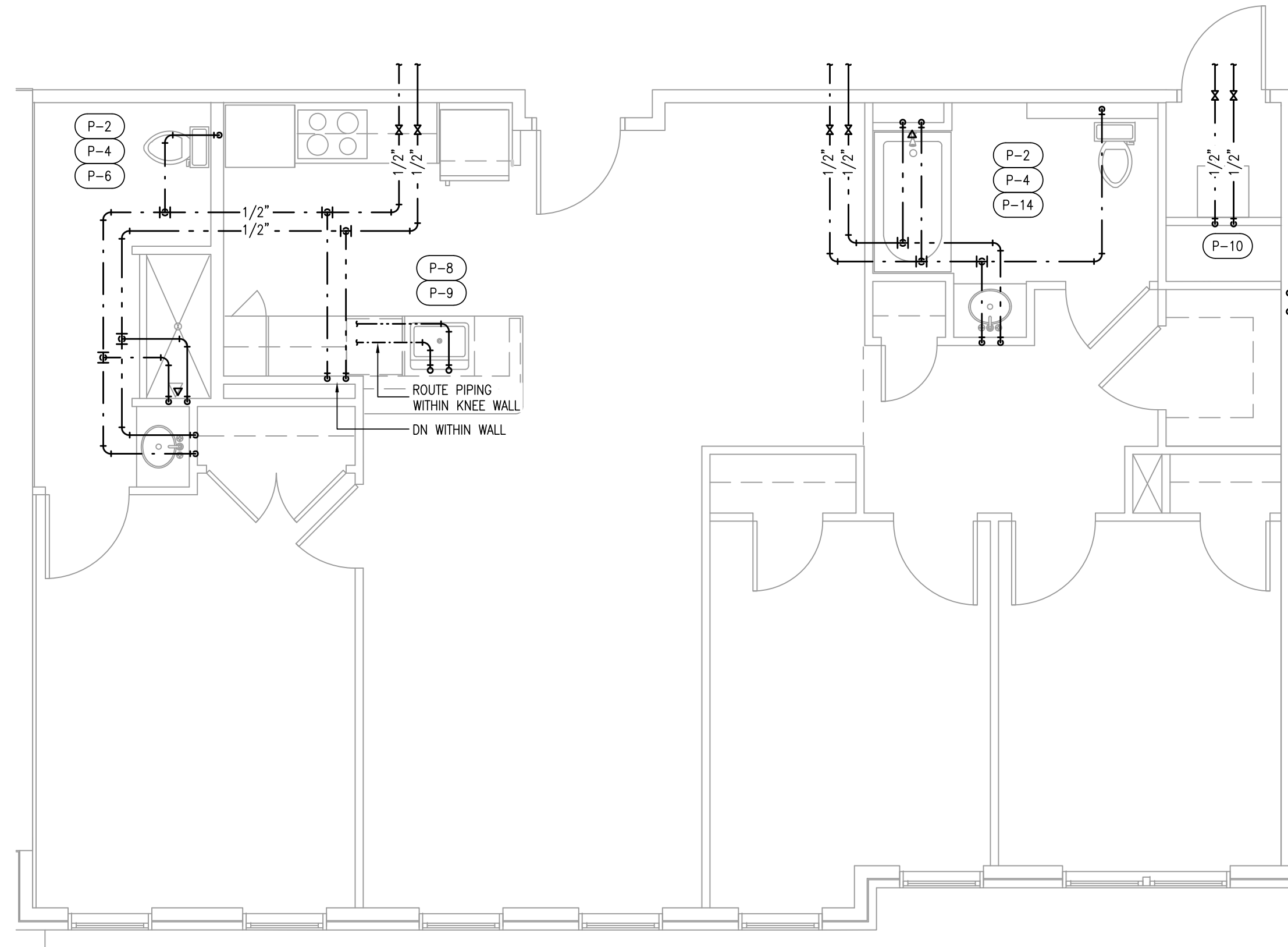
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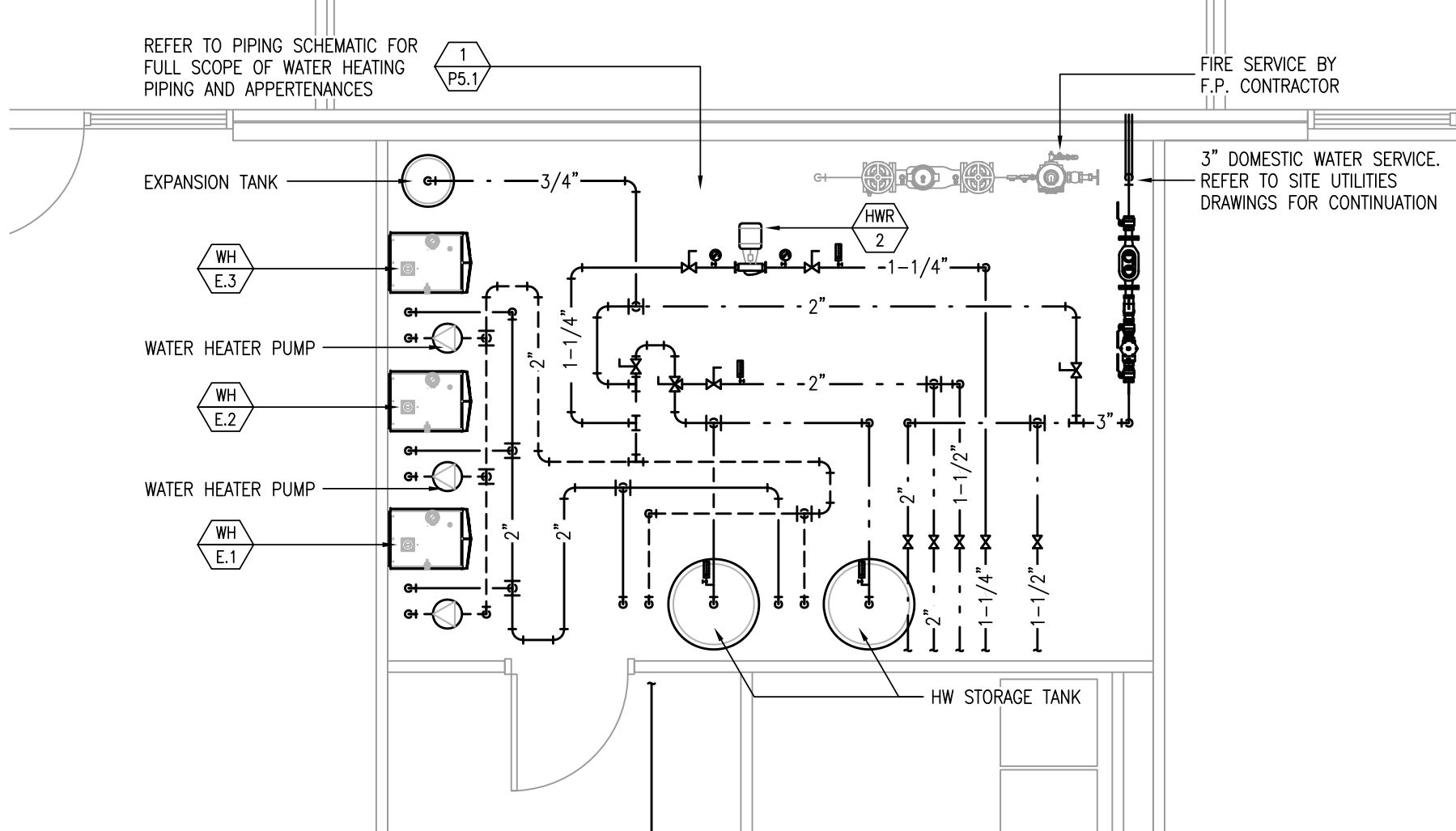
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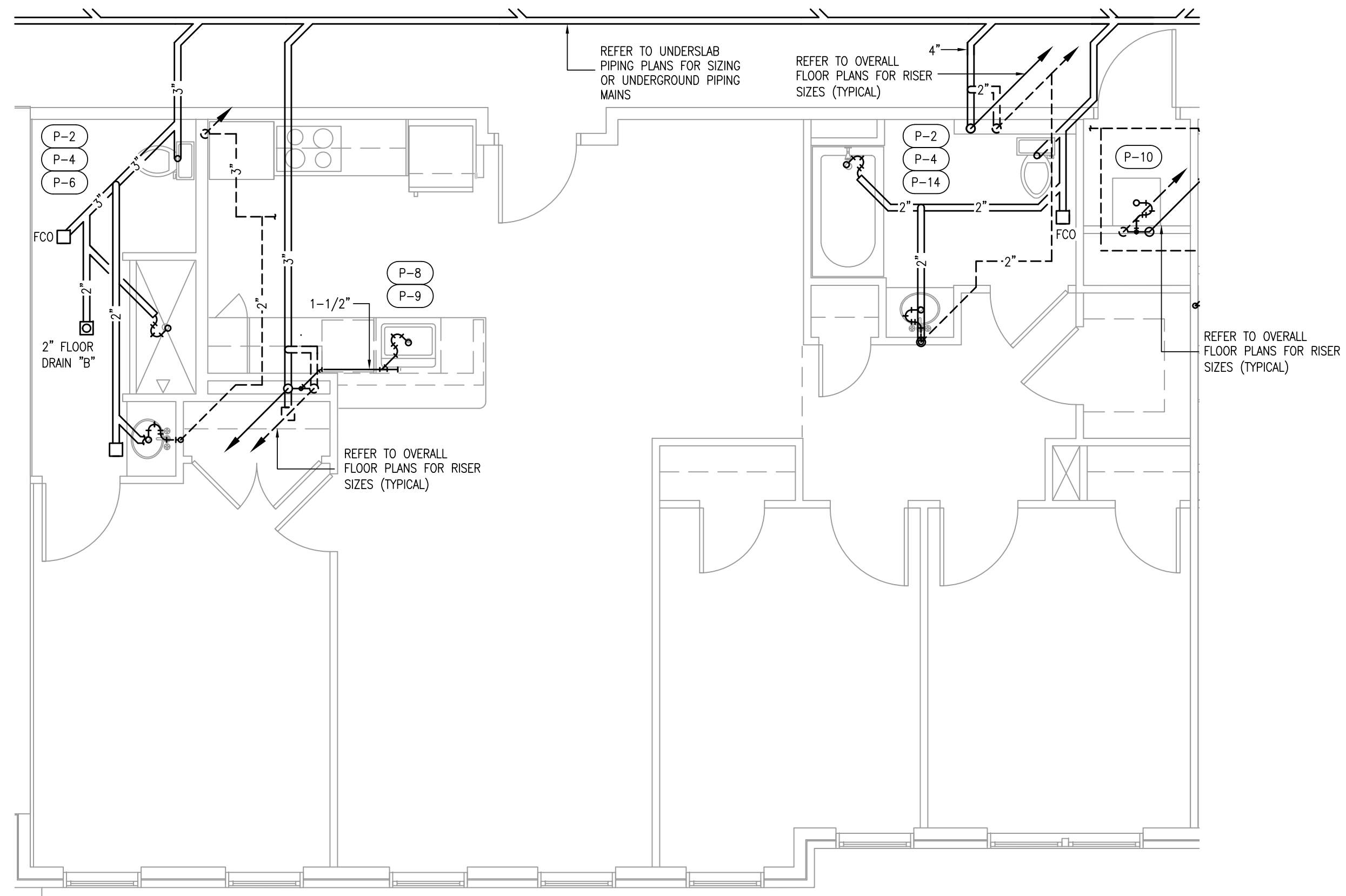
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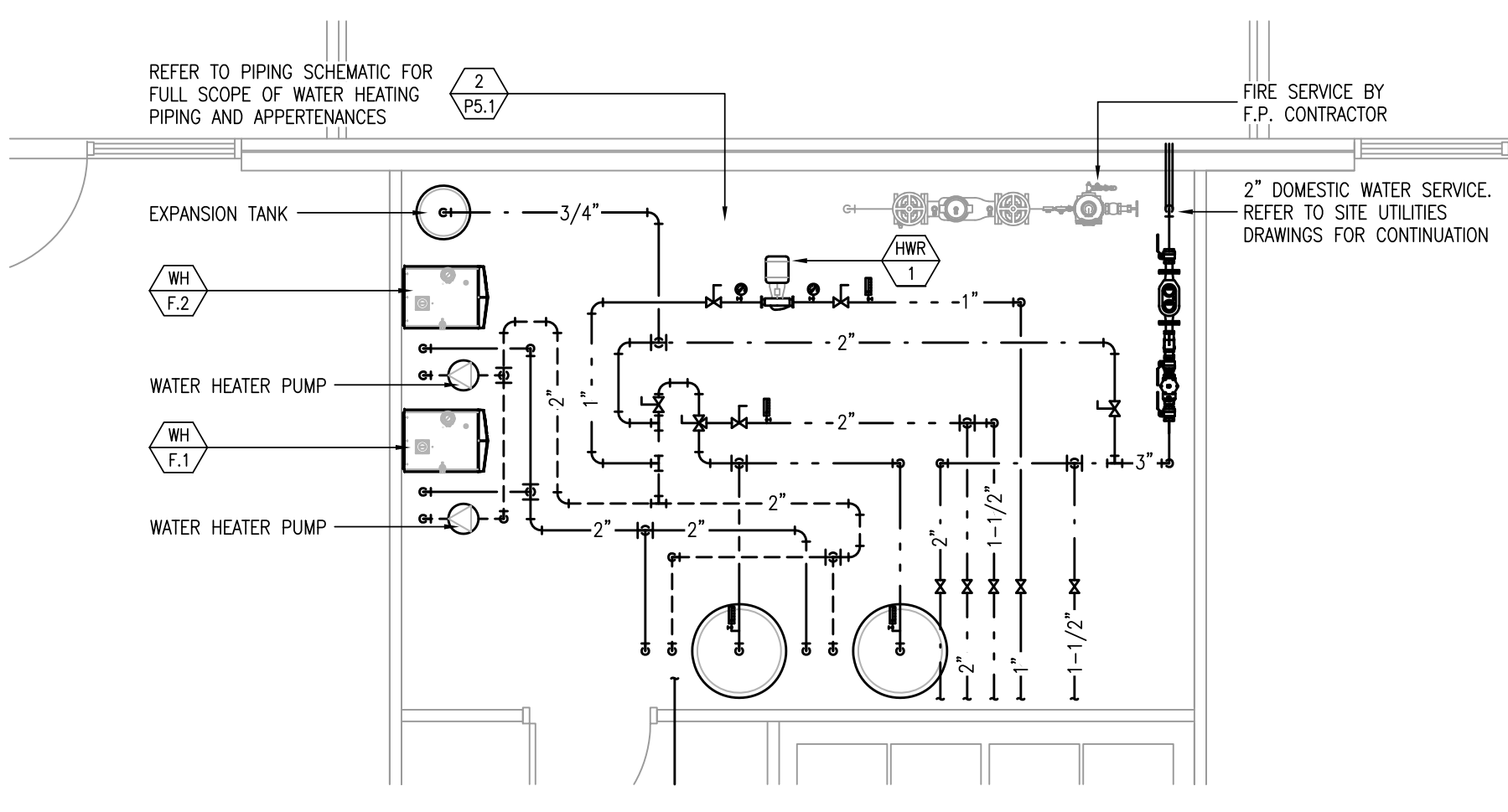
**1 TYPICAL UNIT TYPE 5.2 - DOMESTIC H&CW**  
P3.4 SCALE: 1/4"=1'-0" THREE BEDROOM: GROUP 2A



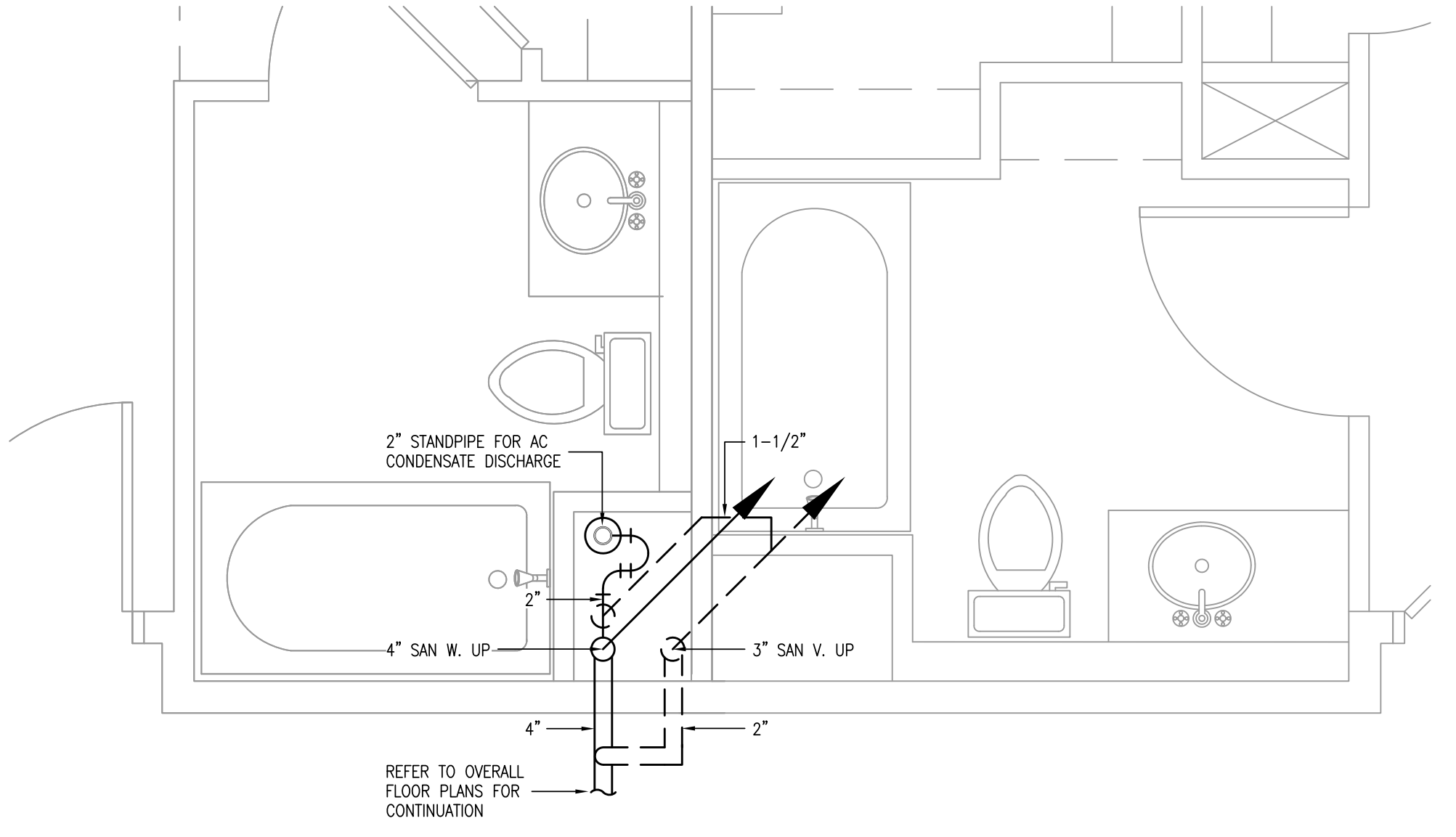
**2 MECHANICAL ROOM PART PLAN; BLDG E - DOMESTIC H&CW**  
P3.4 SCALE: 1/4"=1'-0"



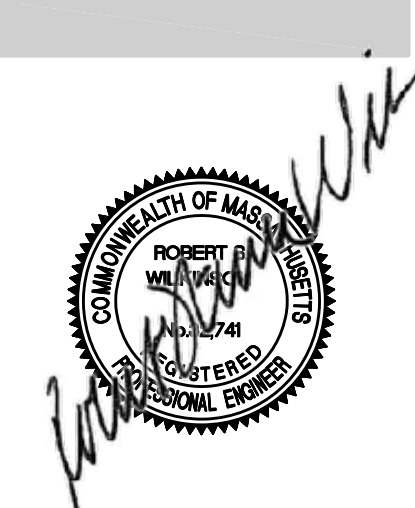
**3 TYPICAL UNIT TYPE 5.2 - SANITARY W&V**  
P3.4 SCALE: 1/4"=1'-0" THREE BEDROOM: GROUP 2A



**4 MECHANICAL ROOM PART PLAN; BLDG F - DOMESTIC H&CW**  
P3.4 SCALE: 1/4"=1'-0"



**5 PART PLAN @ DRAIN STANDPIPE LOCATIONS**  
P3.4 SCALE: 1/2"=1'-0"

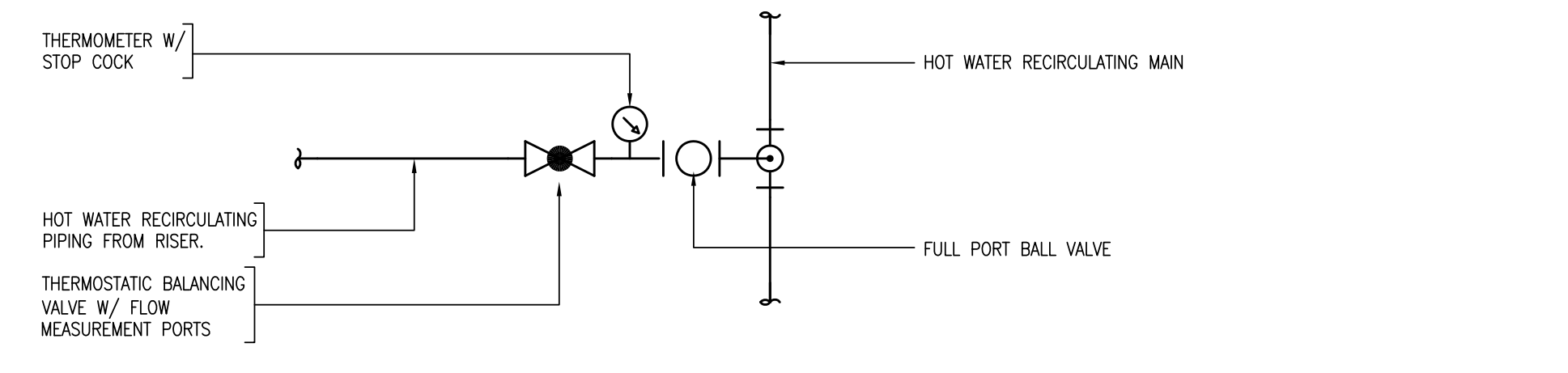


SHEET CONTENTS:  
PLUMBING:  
MECHANICAL ROOM  
PART PLANS

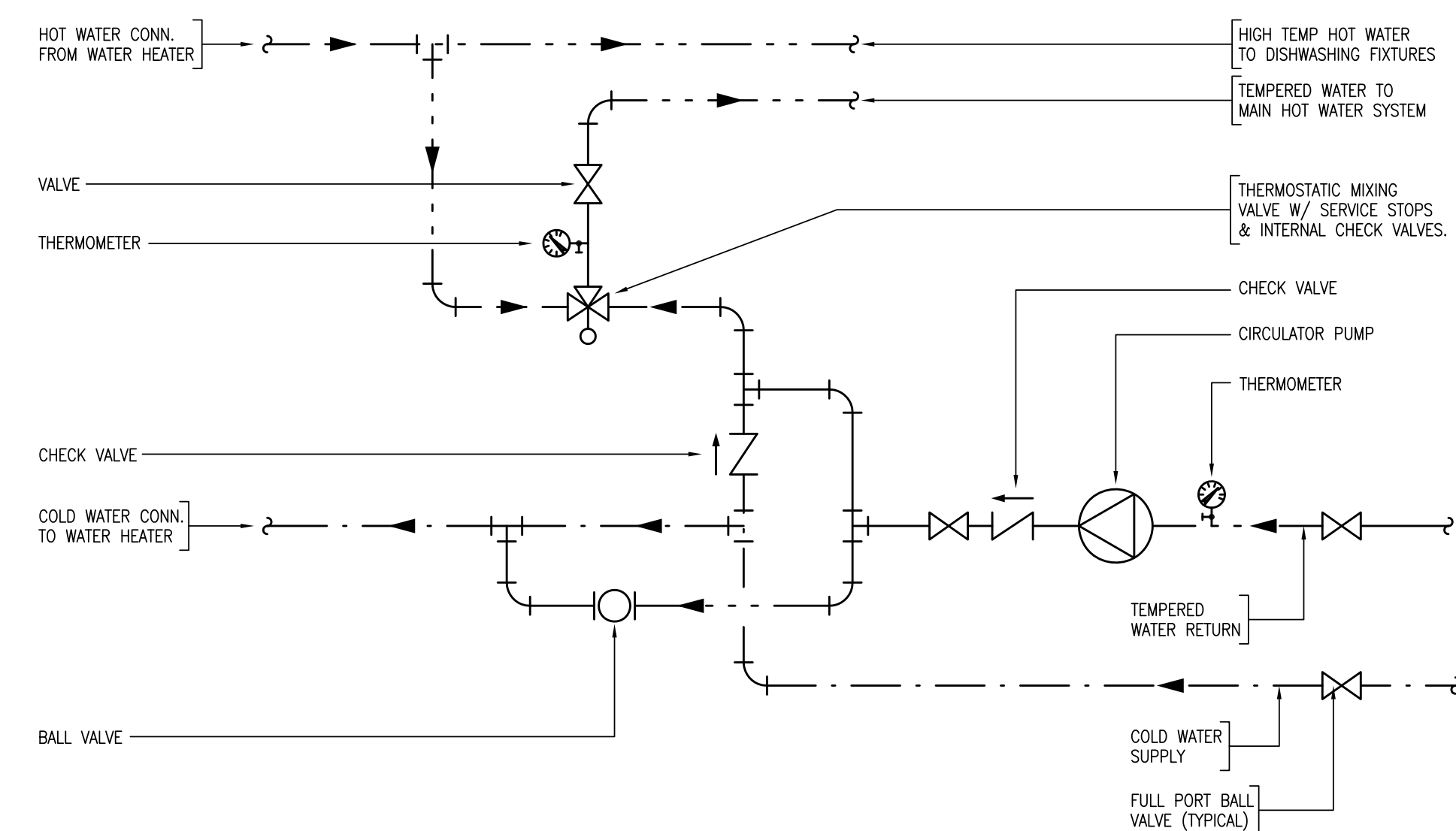
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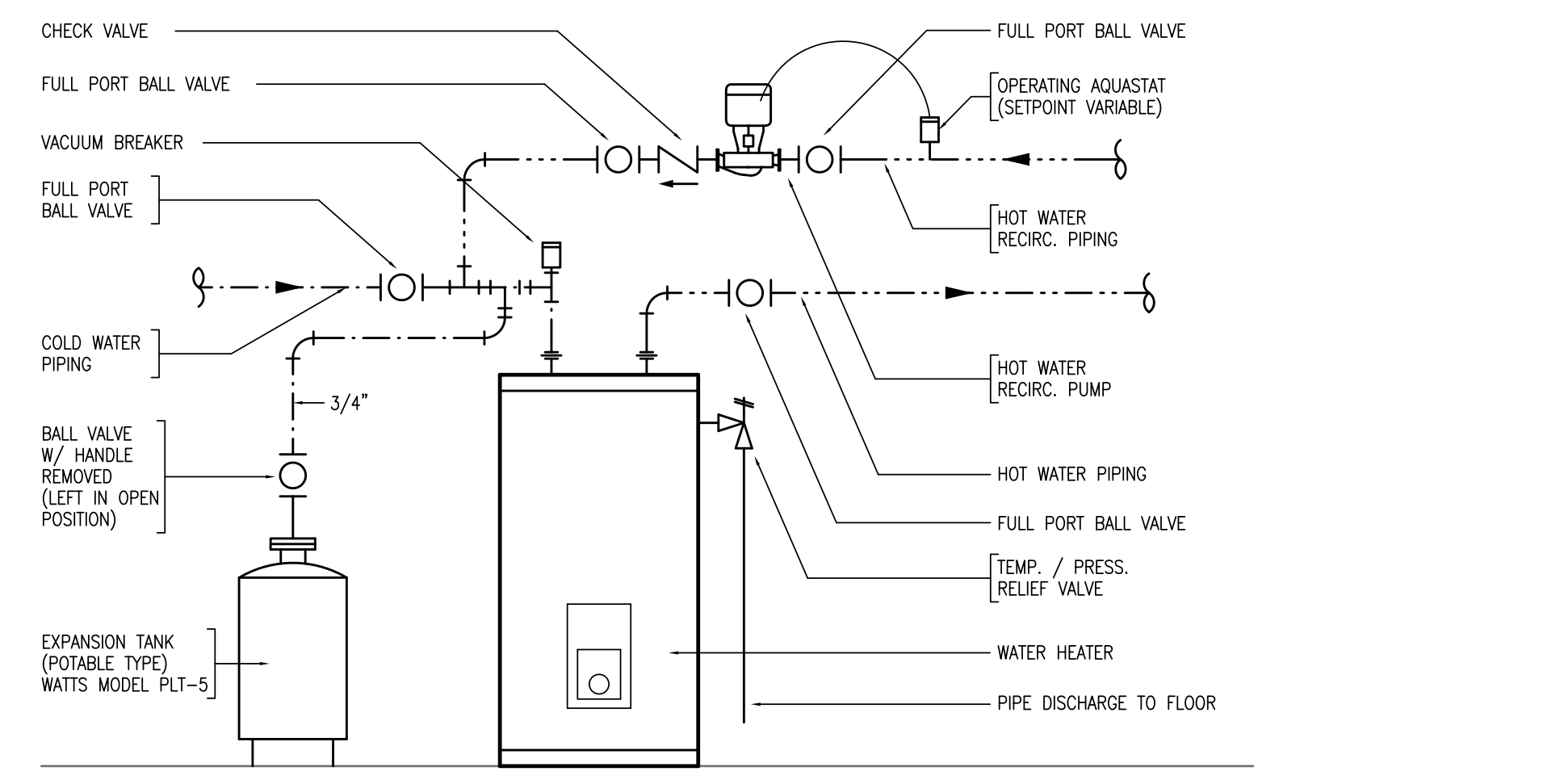
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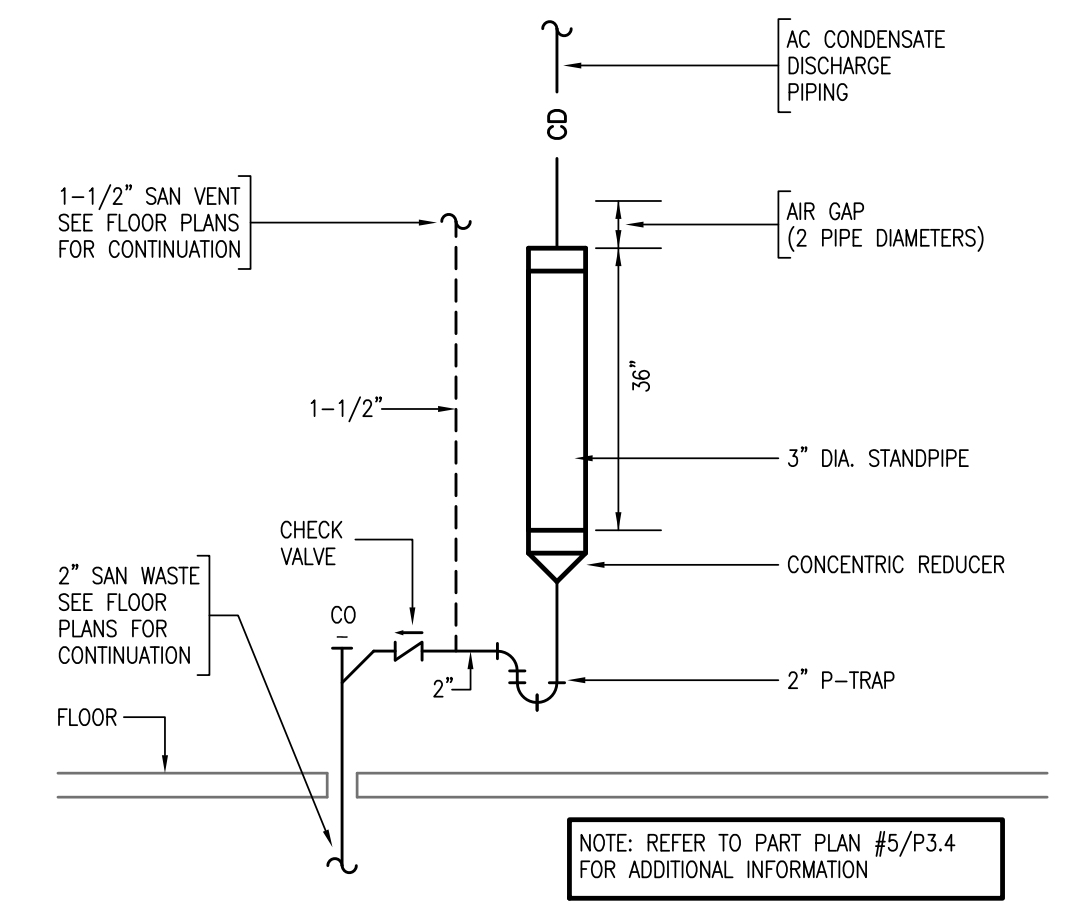
**1 RECIRCULATING BALANCING CONTROL DETAIL**  
P5.0 SCALE: NONE



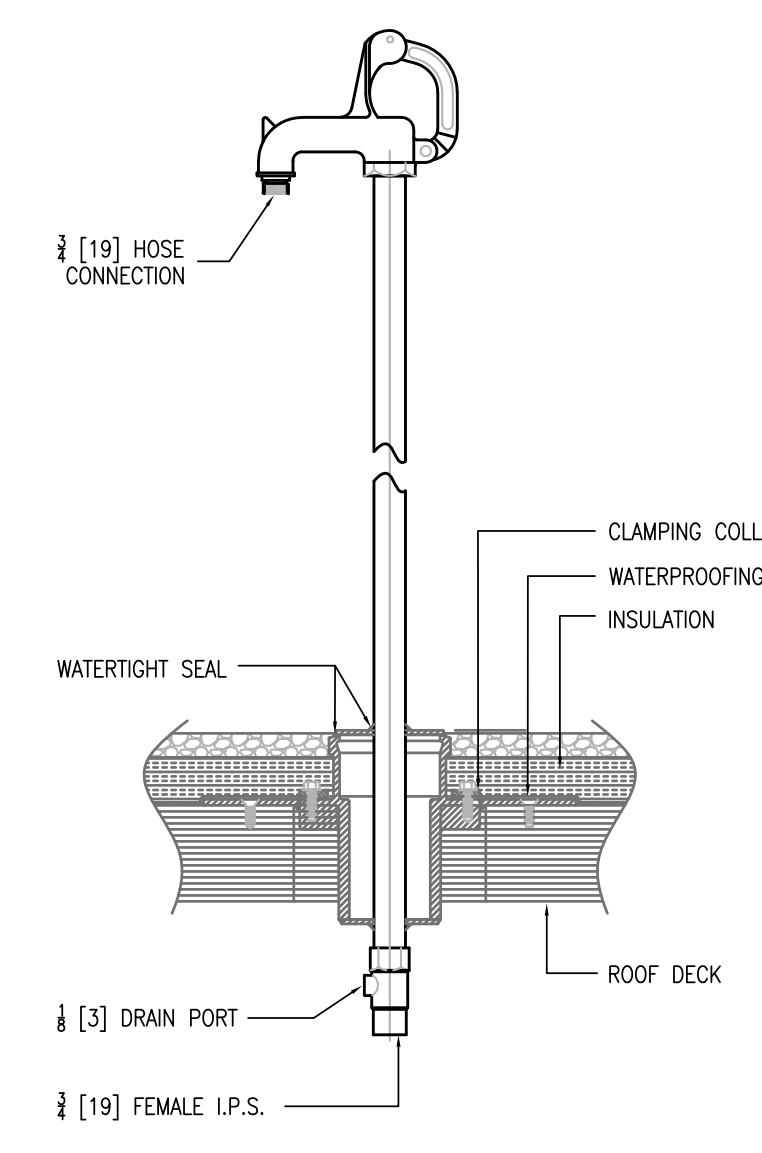
**2 DETAIL @ THERMOSTATIC MIXING VALVE - SINGLE**  
P5.0 SCALE: NONE



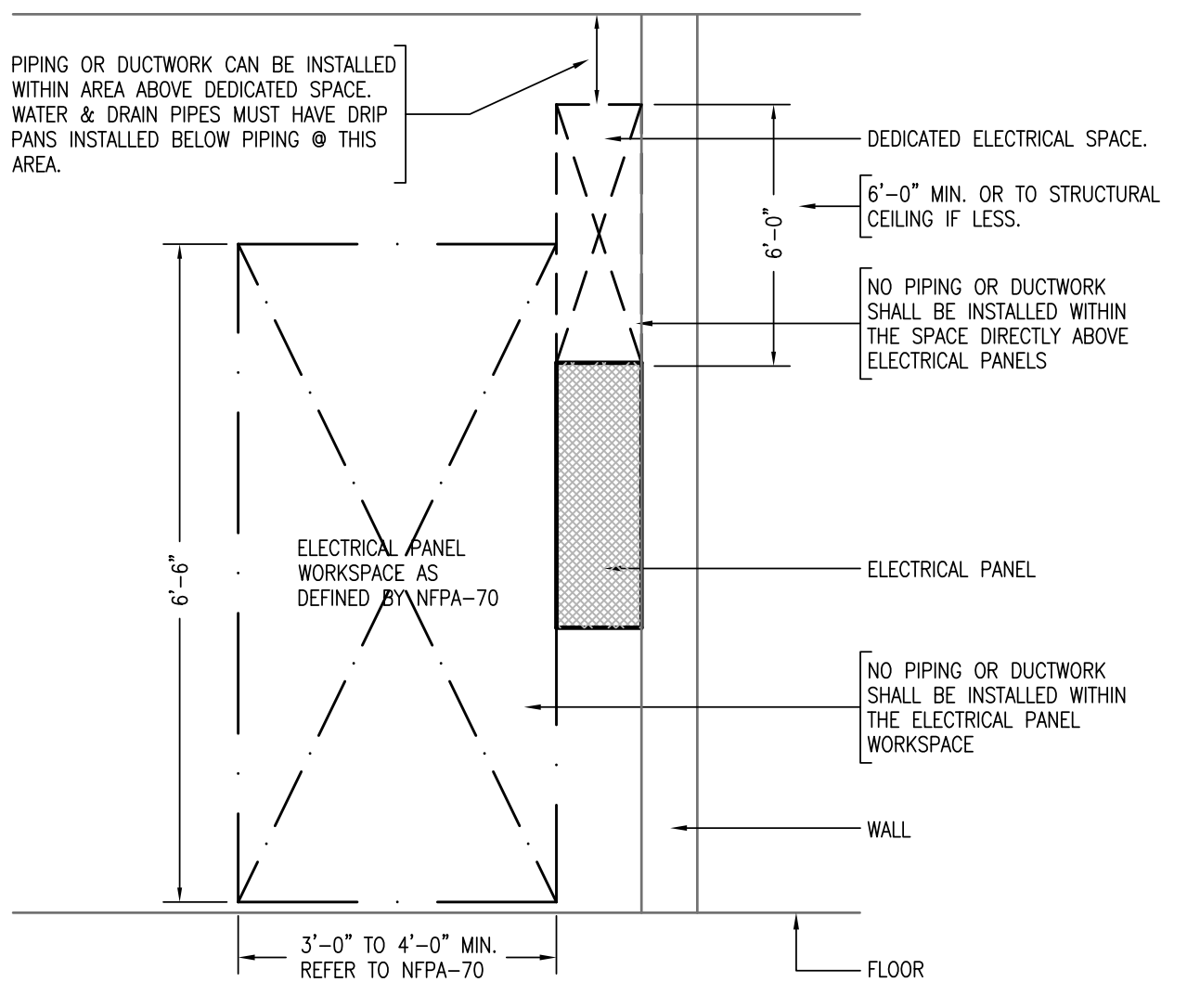
**3 TYPICAL ELECTRIC HOT WATER HEATER DETAIL**  
P5.0 SCALE: NONE (COMMUNITY BUILDING)



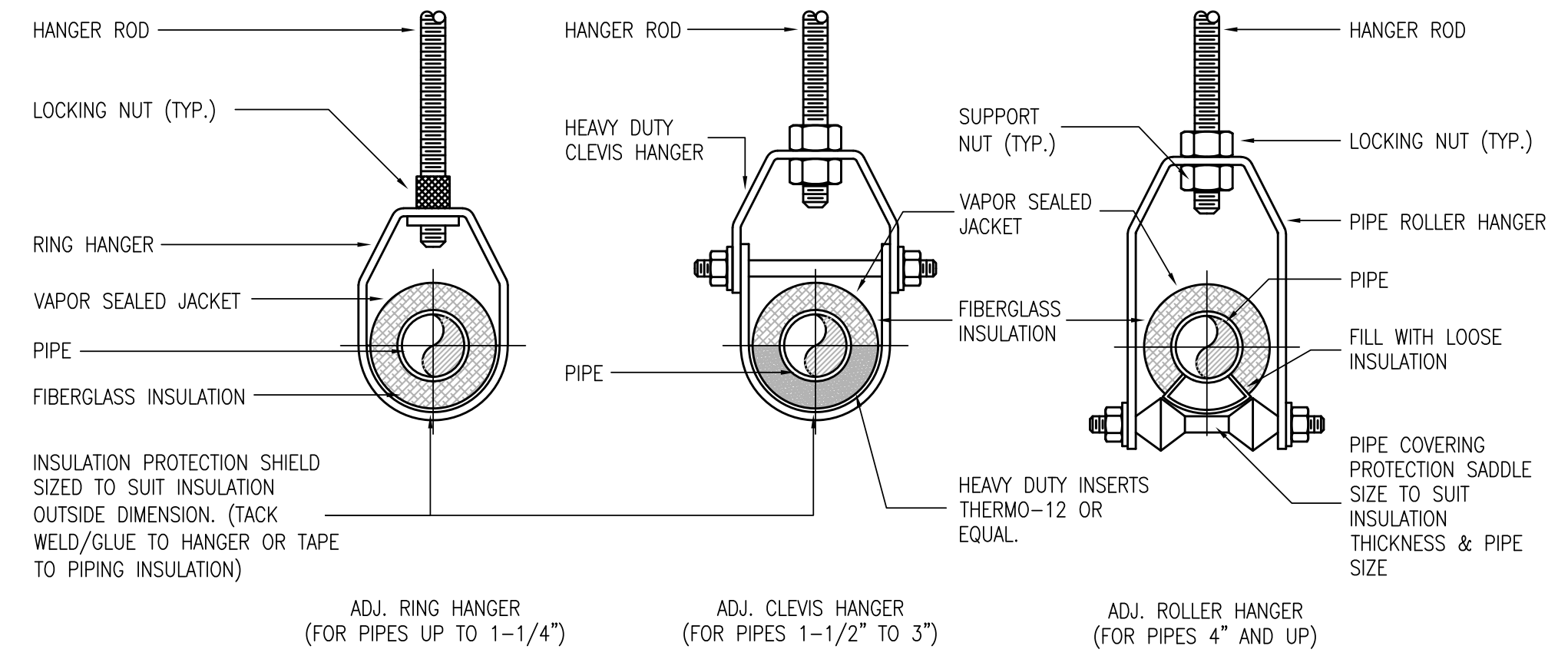
**4 DRAIN STANDPIPE DETAIL**  
P5.0 SCALE: NONE



**5 TYPICAL ROOF HYDRANT DETAIL**  
P5.0 SCALE: NONE



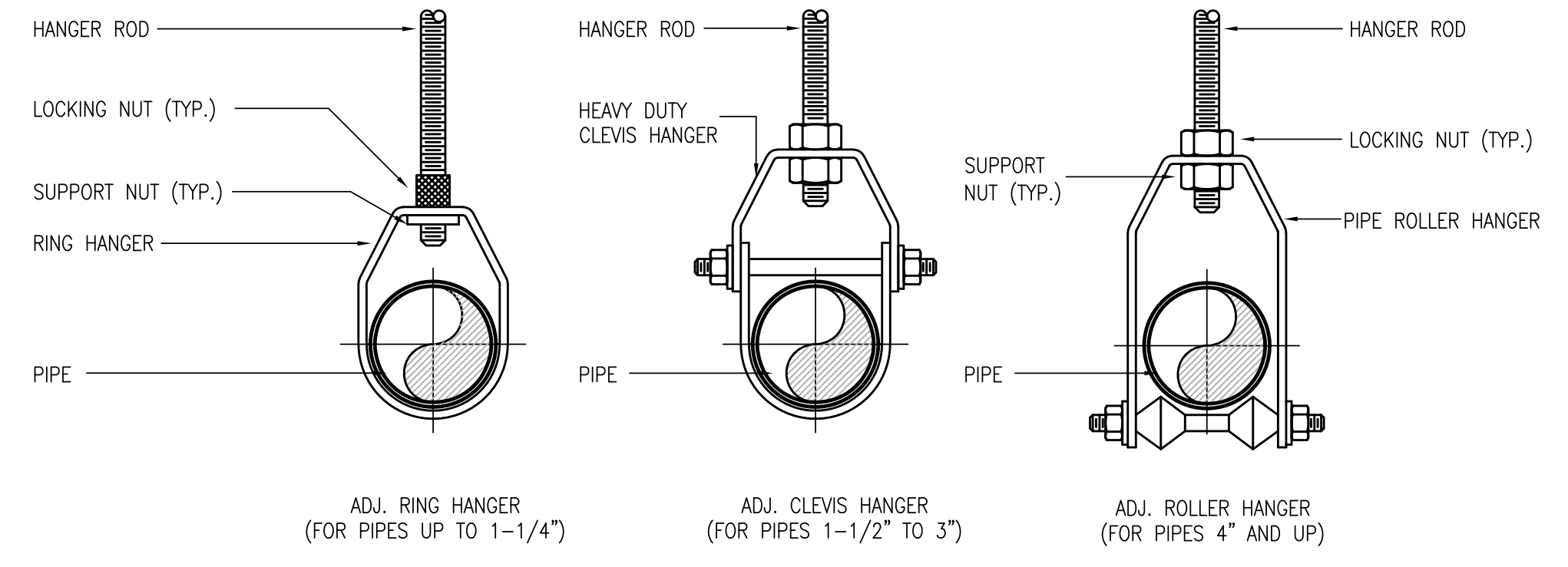
**6 ELECTRICAL SYSTEMS COORD. DETAIL**  
P5.0 SCALE: NONE



HANGER ROD SCHEDULE			
PIPE SIZE	ROD SIZE	PIPE SIZE	ROD SIZE
UP TO 2"	3/8"	6" - 8"	3/4"
2-1/2" - 3"	1/2"	8" - 10"	7/8"
4" - 5"	5/8"	12" - 14"	1"

INSULATION INSERTS	
PIPE SIZE	LENGTH
UP TO 2-1/2"	10"
3" TO 6"	12"
8" TO 10"	16"
12" AND OVER	22"

**7 TYPICAL PIPE HANGER DETAILS: INSULATED PIPING**  
P5.0 SCALE: NONE



HANGER ROD SCHEDULE			
PIPE SIZE	ROD SIZE	PIPE SIZE	ROD SIZE
UP TO 2"	3/8"	6" - 8"	3/4"
2-1/2" - 3"	1/2"	8" - 10"	7/8"
4" - 5"	5/8"	12" - 14"	1"

**8 TYPICAL PIPE HANGER DETAILS: UNINSULATED PIPING**  
P5.0 SCALE: NONE

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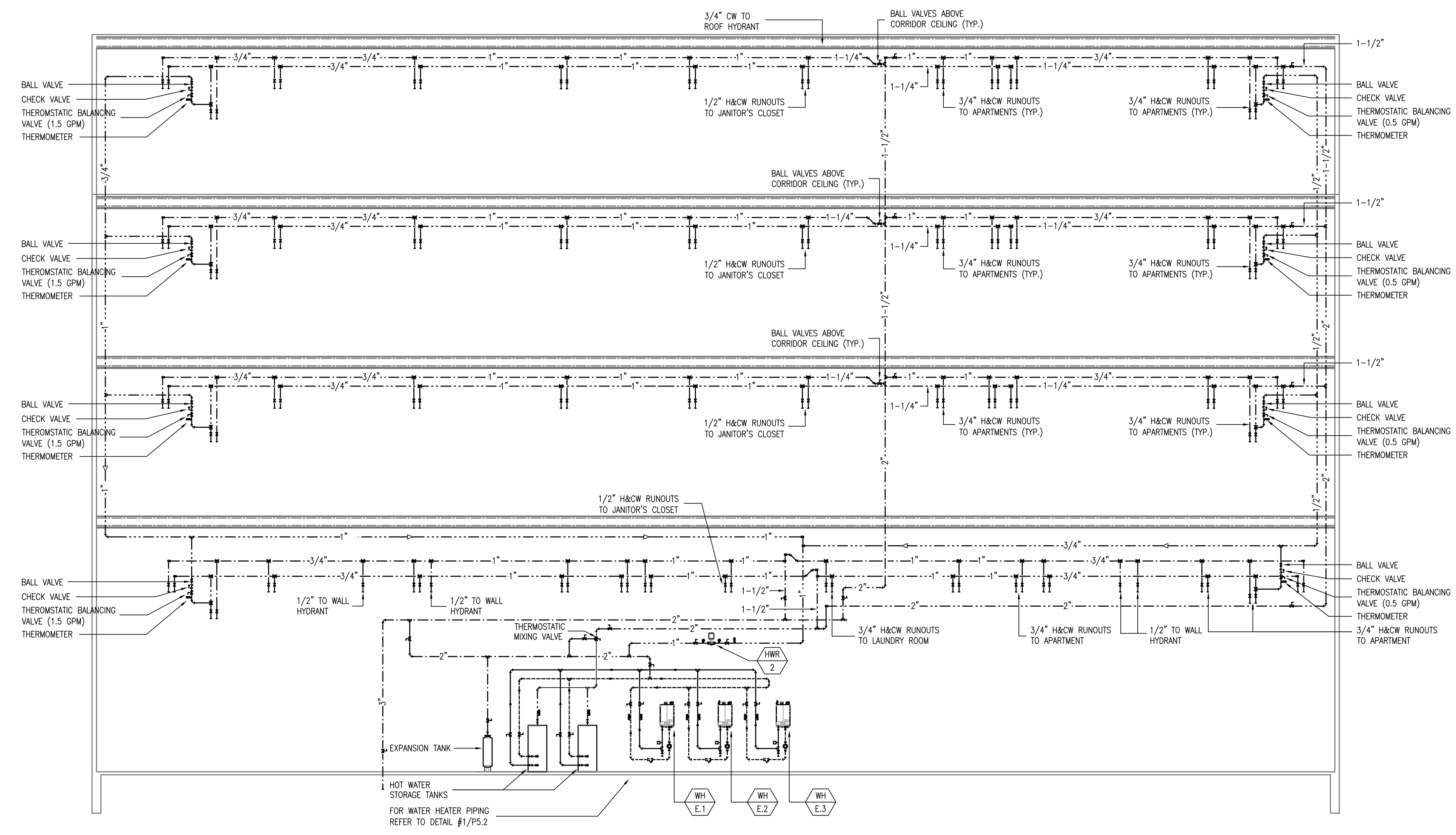
SHEET CONTENTS:  
PLUMBING:  
TYPICAL DETAILS

PROJECT # 1420  
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REVISED: 02/16/2021

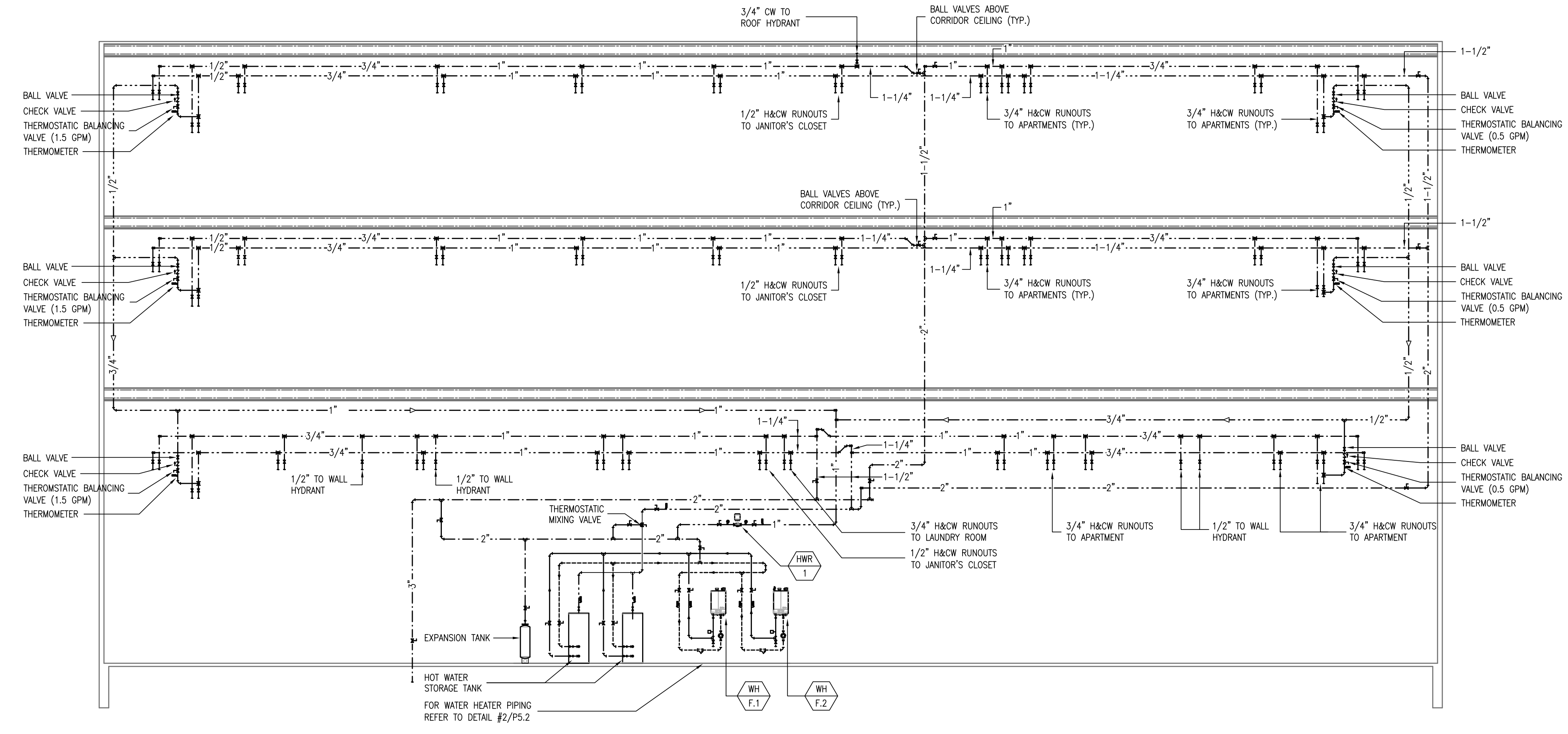
**P5.0**

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**1** DOMESTIC WATER RISER DIAGRAM, BUILDING E  
 P5.1 SCALE: NONE



**2** DOMESTIC WATER RISER DIAGRAM, BUILDING F  
 P5.1 SCALE: NONE



**Ed Wojcik**  
 architect, ltd  
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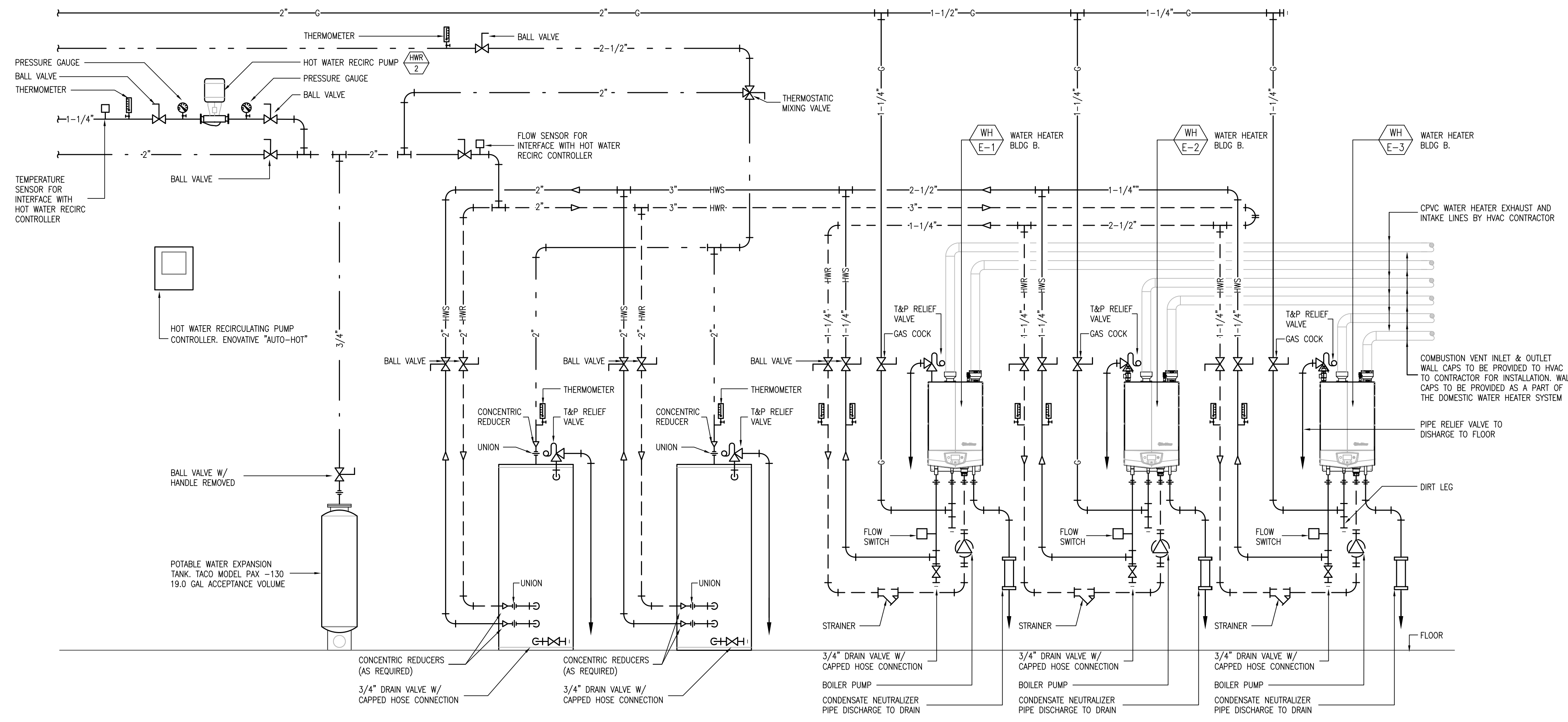


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 PLUMBING:  
 DOMESTIC WATER  
 RISER DIAGRAMS

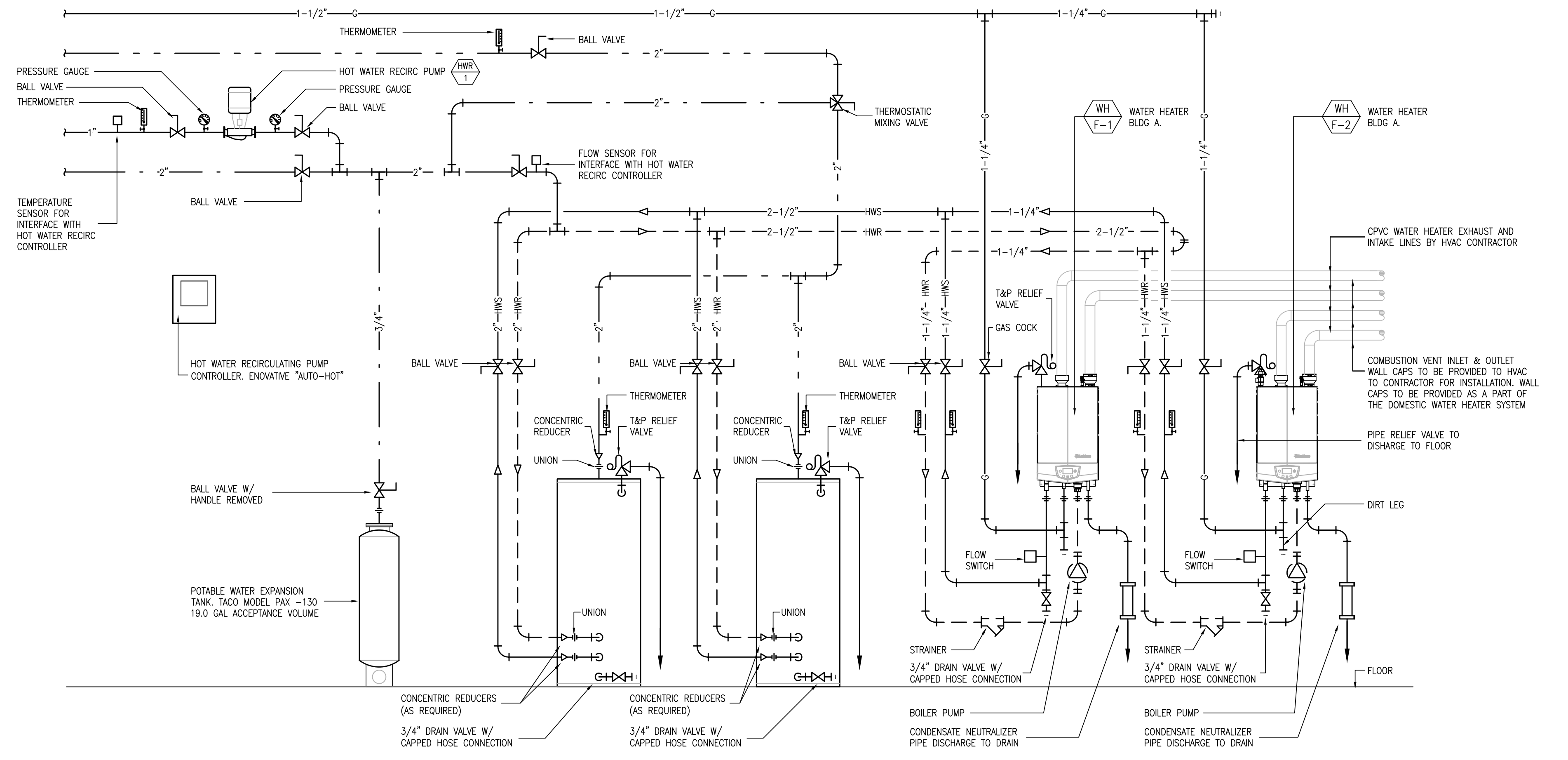
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**P5.1**

CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021



**1** INDIRECT WATER HEATER PIPING SCHEMATIC (BUILDING E)  
 P5.2 SCALE: NONE



**2** INDIRECT WATER HEATER PIPING SCHEMATIC (BUILDING F)  
 P5.2 SCALE: NONE



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 architect, ltd  
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 Providence, RI 02906  
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SHEET CONTENTS:  
 PLUMBING:  
 WATER HEATER  
 PIPING SCHEMATICS

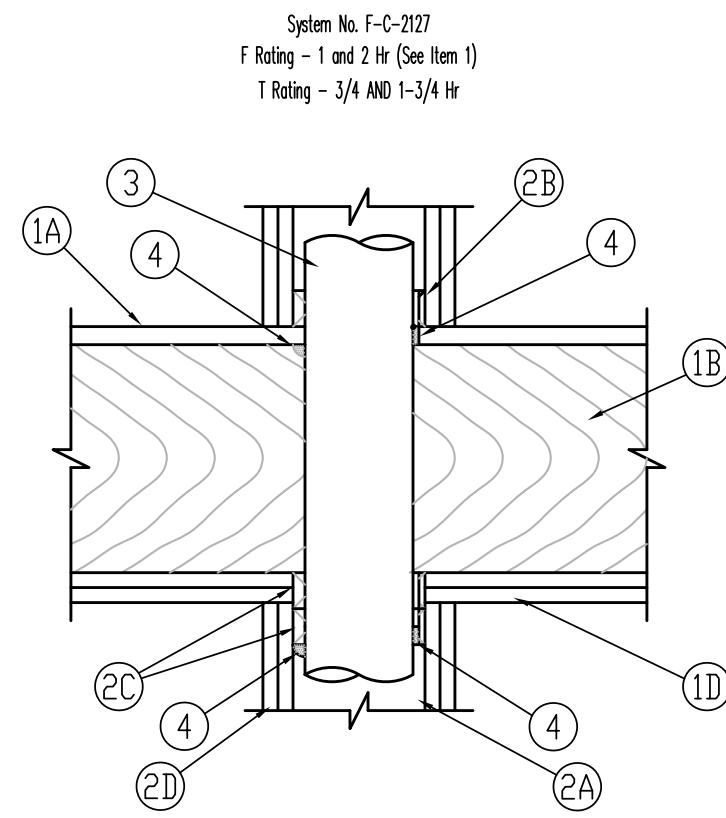
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**P5.2**

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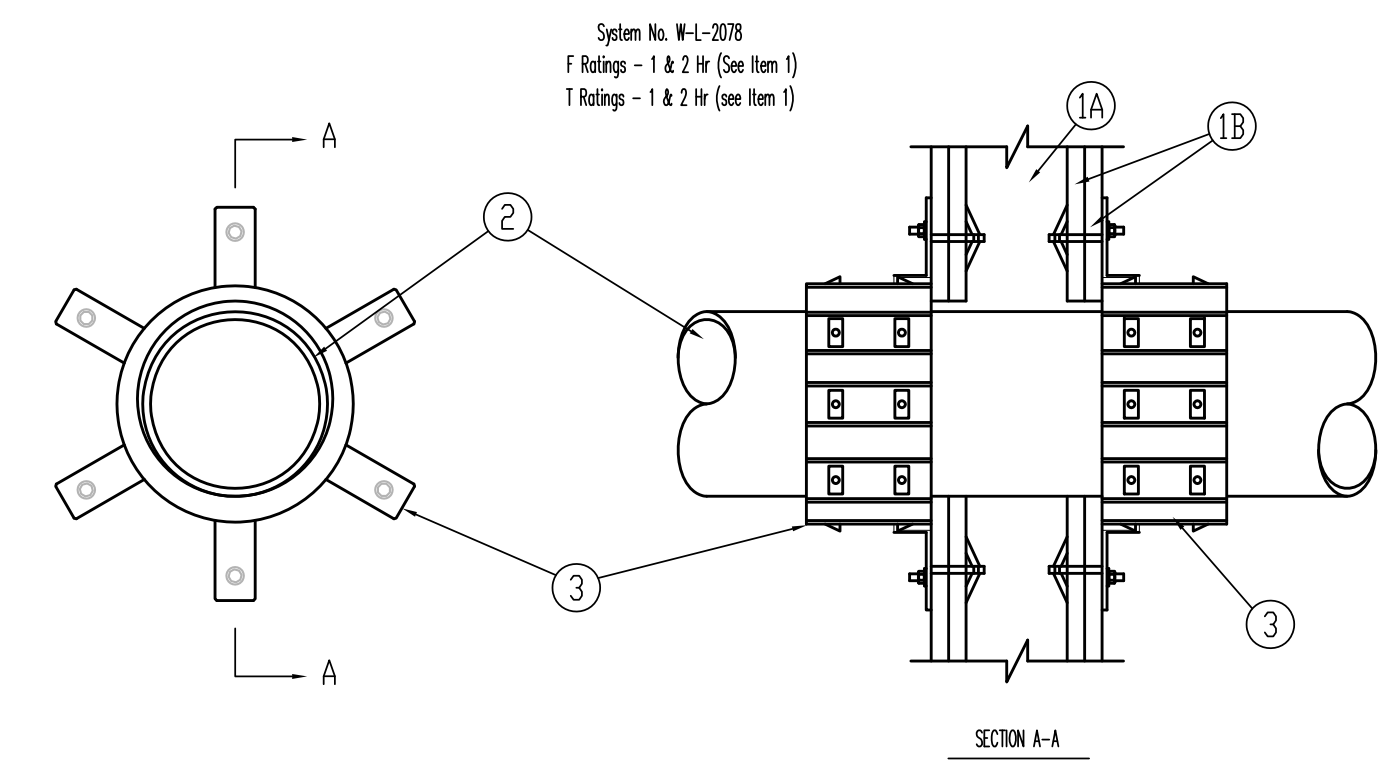
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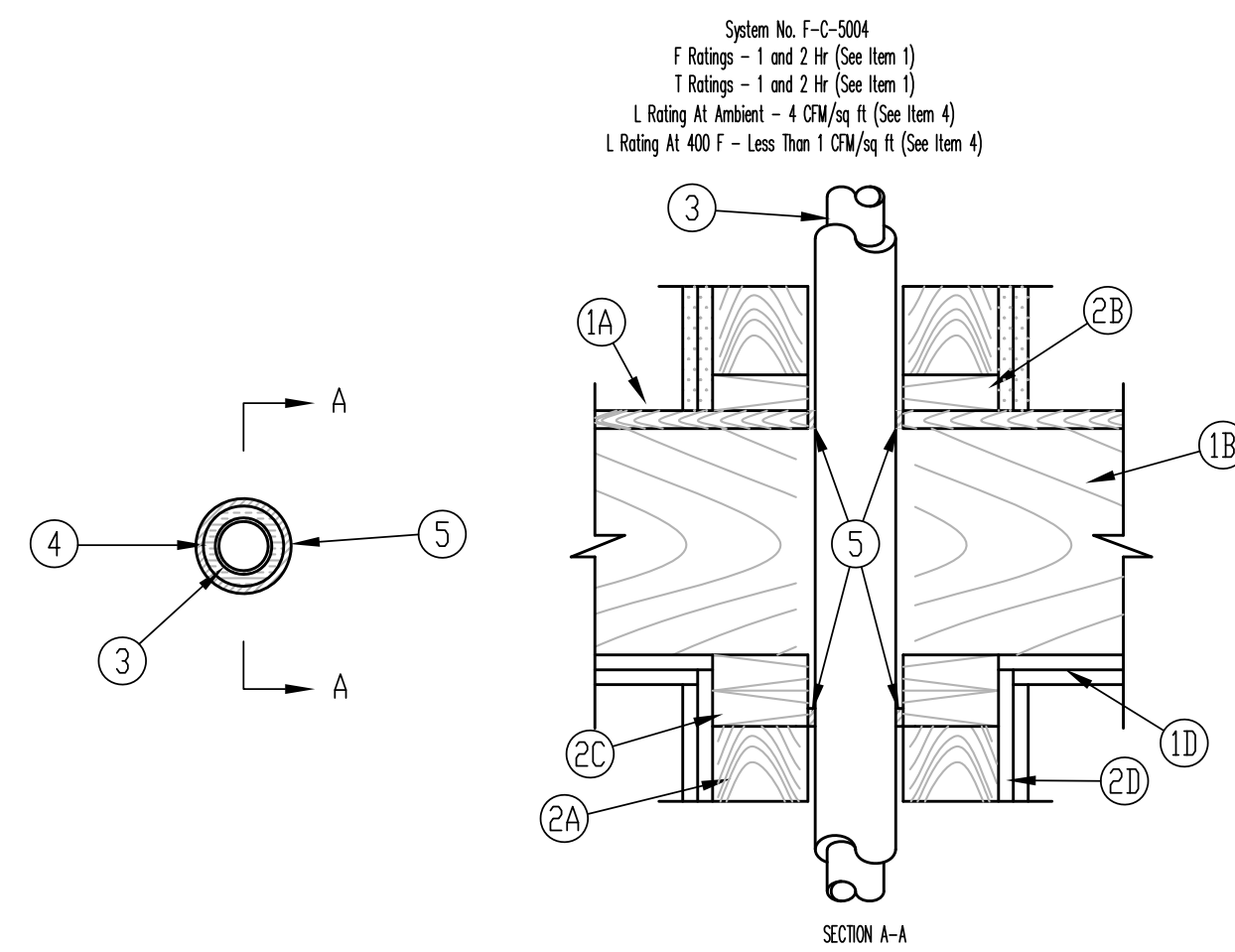
- Floor-Calling Assembly** - The 1 or 2 hr fire-rated solid or trussed lumber joist floor-calling assembly shall be constructed of the materials and in the manner specified in the individual U300 Series Floor-Calling Designs in the UL Fire Resistance Directory. The F Rating of the firestop system is equal to the rating of the floor-calling and wall assemblies. The general construction features of the floor-calling assembly are summarized below:
  - Floor System** - Lumber of plywood subfloor with finish floor of lumber, plywood or Floor Topping Mixture \* as specified in the individual Floor-Calling Design. Max diam of floor opening is 5-1/2 in.
  - Wood Joints** - Nom 10 in. deep (or deeper) lumber, steel or combination lumber and steel joints, trusses or Structural Wood Members \* with bridging as required and with ends firestopped.
  - Furring Channels** - (Not Show) - Resistant galv steel furring installed perpendicular to wood joints between wallboard and wood joists as required in the individual Floor-Calling Design. Furring channels spaced max 24 in. OC.
  - Gypsum Board** - Nom 4 ft wide by 5/8 in. thick as specified in the individual Floor-Calling Design. Wallboard secured to wood joints or furring channels as specified in the individual Floor-Calling Design.
- Chase Wall** - The through penetrant (Item 3) shall be routed through a 1 or 2 hr fire-rated single, double or staggered wood stud/gypsum wallboard chase wall constructed of the materials and in the manner specified 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:
  - Studs** - Nom 2 by 6 in. lumber studs.
  - Side Plate** - Nom 2 by 6 in. lumber plates.
  - Top Plate** - The double top plate shall consist of two nom 2 by 6 in. lumber plates. Max diam of opening is 5-1/2 in.
  - Gypsum Board** - Thickness, type, number of layers and fasteners shall be as specified in individual Wall and Partition Design.
- Nonmetallic Penetrants** - One nonmetallic pipe to be installed either concentrically or eccentrically within the firestop system. The annular space between pipe and periphery of opening shall be continuous contact, 0 in. (point contact) to max 1/8 in. or 0 in. (point contact) to max 1 in. (See Item 4). Pipe to be rigidly supported on both sides of the floor-calling assembly. The following types and sizes of nonmetallic penetrants may be used:
  - Polyvinyl Chloride (PVC) Pipe** - Nom 4 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.
  - Chlorinated Polyvinyl Chloride (CPVC) Pipe** - Nom 4 in. diam (or smaller) SDR135 CPVC pipe for use in closed (process or supply) piping systems.
  - Acrylonitrile Butadiene Styrene (ABS) Pipe** - Nom 4 in. diam (or smaller) Schedule 40 cellular core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
- Fill, Void or Coily Material** - Sealant - Min 3/4 in. thickness of fill material applied within the annulus on top surface of floor or side plate of chase wall. Min 3/4 in. thickness of fill material applied within the penetrant/plate interfaces at point contact locations on both sides of assembly. When penetrants are installed at continuous contact or min 0 in. to max 1/8 in. annular spaces, a 1/8 in. bead shall be applied at the penetrant/plate interfaces and over 1/8 in. annular space on both sides of the assembly.  
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC. -- FS -- One Sealant  
\*Bearing the UL Classification Mark

**1** DETAIL @ UNINSULATED PVC PIPE PENETRATION OF WOODEN CHASE FLOOR  
SCALE: NONE (4" & UNDER) (BASED ON HILTI #F-C-2127)



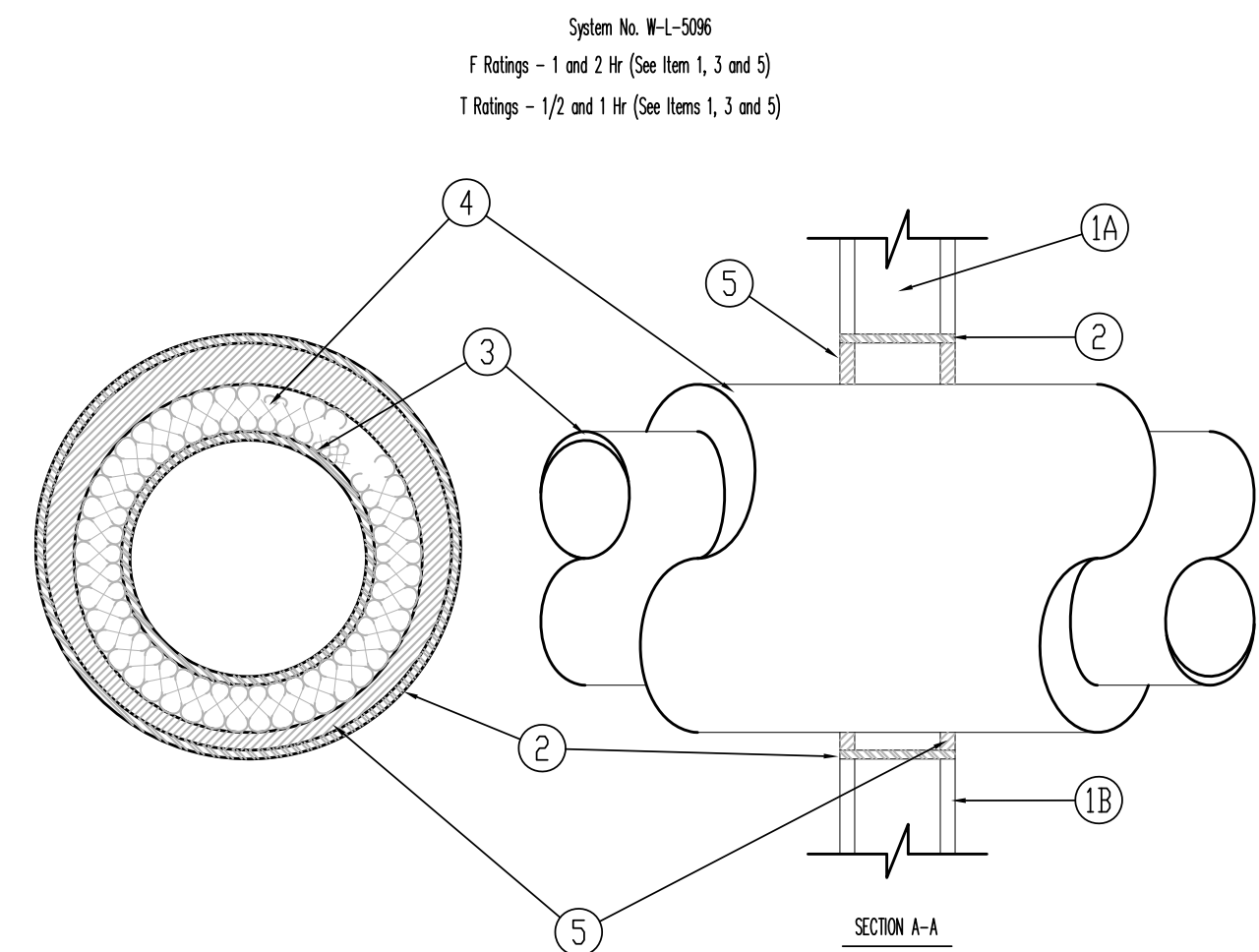
- Wall Assembly** - The fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the construction features noted below. The hourly F Rating and I Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed:
  - Studs** - Wall framing may 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 gypsum wallboard, as specified in the individual Wall and Partition Design. Max diam of opening is 7 in.
- 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. 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:
  - Polyvinyl Chloride (PVC) Pipe** - Nom 6 in. 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 system.
  - Chlorinated Polyvinyl Chloride (CPVC) Pipe** - Nom 6 in. diam (or smaller) SDR17 CPVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
  - Acrylonitrile Butadiene Styrene (ABS) Pipe** - Nom 6 in. 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.
- Firestop Device** - 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 bolts provided with the collar. (Minimum 2 anchor bolts for 1-1/2 and 2 in. diam pipes, 3 anchor bolts for 3 and 4 in. diam pipes, and 4 anchor bolts for 6 in. diam pipes). The anchor bolts are to be secured to the surface of wall with 3/16 2-1/2 in. long toggle bolts along with washers.  
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC CP 643 50/15N, CP 643 63/27N, CP 643 80/57N, CP 643 110/47N or CP 643 180/67N  
Firestop Collar  
\*Bearing the UL Classification Mark

**2** DETAIL @ UNINSULATED PVC PIPE COLLAR @ GYPSUM WALL PENETRATION  
SCALE: NONE (BASED ON HILTI #W-L-2078)



- Floor-Calling Assembly** - The 1 or 2 hr fire-rated solid or trussed lumber joist floor-calling assembly shall be constructed of the materials and in the manner specified in the individual U300 Series Floor-Calling Designs in the UL Fire Resistance Directory. The F Rating of the firestop system is equal to the rating of the floor-calling and wall assemblies. The general construction features of the floor-calling assembly are summarized below:
  - Flooring System** - Lumber or plywood subfloor with finish floor of lumber, plywood or Floor Topping Mixture \* as specified in the individual Floor-Calling Design. Max diam of floor opening is 4 in.
  - Wood Joints** - Nom 10 in. deep (or deeper) lumber, steel or combination lumber and steel joints, trusses or Structural Wood Members\* with bridging as required and with ends firestopped.
  - Furring Channels** - (Not Show) - (As required) - Resistant galvanized steel furring installed in accordance with the manner specified in the individual U300 Series Designs in the Fire Resistance Directory.
  - Gypsum Board** - Thickness, type, number of layers and fasteners shall be as specified in the individual Floor-Calling Design.
- Chase Wall** - The through penetrant (Item 3) shall be routed through a fire-rated single, double or staggered wood stud/gypsum wallboard chase wall having a fire rating consistent with that of the floor-calling 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:
  - Studs** - Nom 2 by 6 in. or double nom 2 by 4 in. lumber studs.
  - Side Plate** - Nom 2 by 6 in. or parallel 2 by 4 in. lumber plates, lightly butted.
  - 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, lightly butted. Max diam of opening is 4 in.
  - Gypsum Board** - Thickness, type, number of layers and fasteners shall be as specified in the individual Wall and Partition Design.
- Through Penetrants** - One metallic pipe or tubing to be installed within the firestop system. Pipe or tubing to be rigidly supported on both sides of floor assembly. The following types and sizes of metallic pipes or tubing may be used:
  - Steel Pipe** - Nom 2 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.
  - Copper Tubing** - Nom 2 in. diam (or smaller) Type L (or heavier) copper tubing.
  - Copper Pipe** - Nom 2 in. diam (or smaller) Regular (or heavier) copper pipe.
- Pipe Covering** - Nom 1/2 in. thick hollow cylindrical heavy density (min 3.5 pcf) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing tape. Transverse joints secured with metal fasteners or with built tape supplied with the product. A nom annular space of 1/8 in. is required within the firestop system. See Pipe and Equipment Covering - Materials (BRD) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing a UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.
- 4A. Tube Insulation** - Plastice - Nom 3/4 in. thick acrylonitrile butadiene/polyvinyl chloride (AB/PVC) flexible foam furnished in the form of tubing. An annular space of min 1/8 in. to max 3/8 in. is required within the firestop system. See Plastice (MFI 22) category in the Recognition Component Directory for names of manufacturers. Any Recognized Component tube insulation material meeting the above specifications and having a UL 94 Flammability Classification of 94-5HA may be used. (Note: I Ratings apply only when glass fiber insulation is used).
- Fill, Void or Coily Material** - Sealant - Min 3/4 in. thickness of fill material applied within the annulus, flush with top surface of floor. A generous bead of fill material also applied within the annulus of the top plate, flush with bottom surface of lower top plate.  
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC -- FS-One Sealant  
\*Bearing the UL Classification Mark

**3** INSULATED METAL PIPE THRU 1 OR 2 HOUR WOOD FLOOR ASSEMBLY  
SCALE: SCALE



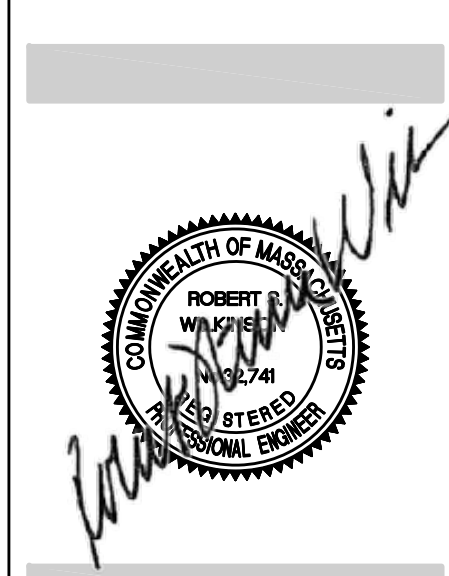
- Wall Assembly** The 1 or 2 hr fire rated wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
  - Studs** - Wall framing shall consist of either wood studs or steel channel studs. Wood studs to be min 2-1/2 in. wide and spaced max 24 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 board 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 openings is 14-1/2 in. for wood stud walls. Max diam of opening is 18 in. for steel stud walls. The hourly F and I Ratings of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
- Steel Sleeve** (Optional) Max 18 in. diam Schedule 40 (or heavier) steel pipe sleeve inserted in nom 18 in. diam circular opening core drilled through wall. Length of steel sleeve to be equal to thickness of wall.
- Through Penetrant** - One metallic pipe or tubing installed concentrically or eccentrically within the firestop system. Pipe or tube to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes or tube may be used:
  - Steel Pipe** - Nom 18 in. diam (or smaller) Schedule 40 (or heavier) steel pipe. When steel pipe is used, I Rating is 1/2 and 1 hr when installed in 1 and 2 hr rated walls, respectively.
  - Copper Tube** - Nom 4 in. diam (or smaller) Type L (or heavier) copper tube. When copper tube is used, I Rating is 1/2 hr.
  - Copper Pipe** - Nom 4 in. diam (or smaller) Regular (or heavier) copper pipe. When copper pipe is used, I Rating is 1/2 hr.
- Pipe Covering** - Nom 2 in. thick hollow cylindrical heavy density (min 3.5 pcf) glass fiber units, jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied SS3 tape. Transverse joints secured with metal fasteners or with built tape supplied with the product. See Pipe and Equipment Covering Materials (BRD) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used. The annular space of the firestop system is dependent on the type and size of the through penetrant as shown in the table below:
 

Through Penetrant	Annular Space	Type	Max In.	Min In.	Max In.
A	10	1/2	1-1/2		
B or C	4	3/8	1-1/2		
- Fill, Void or Coily Material** - Sealant - Min 3/8 in. or 1-1/4 in. thickness of fill material applied within annulus, flush with both surfaces of wall assembly for 1 or 2 hr rated walls, respectively.  
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC -- FS-One Sealant  
\*Bearing the UL Classification Mark

**4** DETAIL @ INSULATED METAL PIPE PENETRATION OF GYPSUM  
SCALE: NONE (BASED ON HILTI #W-L-5096)

CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

Proposed Design for:  
**Woodland Cove**  
**Phase I**  
Buildings E, F, & COMMUNITY BUILDING  
3102 Cranberry Highway  
Wareham, MA 02552



SHEET CONTENTS:  
PLUMBING:  
FIRE SAFING DETAILS

PROJECT # 1420  
DATE: 9/22/2020  
REVISED DATE:  
REVISED: 02/16/2021

**P5.3**

P NO	FIXTURE	CONNECTIONS				MODEL	NOTES
		WASTE	VENT	C.W.	H.W.		
P-1	WATER CLOSET	3"	1-1/2"	1/2"	-	2462.100	AMERICAN STANDARD CADET FLO-WIZE
P-2	WATER CLOSET (ADA)	3"	1-1/2"	1/2"	-	2467.100	AMERICAN STANDARD CADET FLO-WIZE RIGHT HEIGHT
P-3	LAVATORY	1-1/2"	1-1/2"	1/2"	1/2"	-	FURNISHED BY GENERAL CONTRACTOR. PROVIDE CONNECTIONS AND BRASS ONLY
P-4	LAVATORY (ADA)	1-1/2"	1-1/2"	1/2"	1/2"	-	FURNISHED BY GENERAL CONTRACTOR. PROVIDE CONNECTIONS AND BRASS ONLY
P-5	SHOWER	1-1/2"	1-1/2"	1/2"	1/2"	MP 6033 SH SP L-R	AQUARIUS, WITH INTEGRAL BLOCKING, FOR GROUP 1 UNITS
P-6	ROLL-IN SHOWER ADA	1-1/2"	1-1/2"	1/2"	1/2"	MP 6033 BF 5P .75	AQUARIUS, WITH INTEGRAL BLOCKING, ROLL-IN SHOWER W/ HANDHELD SHOWER FOR GROUP 2A & ADA UNITS
P-7	KITCHEN SINK	1-1/2"	1-1/2"	1/2"	1/2"	D-12521-1	DAYTON
P-8	KITCHEN SINK (ADA)	1-1/2"	1-1/2"	1/2"	1/2"	D-12521-1	DAYTON
P-8a	COMMUNITY ROOM SINK (ADA)	1-1/2"	1-1/2"	1/2"	1/2"	D-12521-1	DAYTON
P-9	DISHWASHER	3/4" IW	-	-	1/2"	-	FURNISHED BY GENERAL CONTRACTOR, PROVIDE CONNECTIONS ONLY
P-10	MOP RECEPTOR	3"	1-1/2"	1/2"	1/2"	MSB-2424	FIAT MOLDED STONE
P-11	CLOTHES WASHER	2"	1-1/2"	1/2"	1/2"	RS-090-E	FLOODMASTER
P-12	DRINKING FOUNTAIN	1-1/2"	1-1/2"	1/2"	1/2"	EZ00TLBWSK	ELKAY EZH2O
P-13	CLUBHOUSE LAVATORY	1-1/2"	1-1/2"	1/2"	1/2"	PINOIR K-2035-8	KOHLER
P-14	TUB SHOWER	2"	1-1/2"	1/2"	1/2"	S 6000 TS OT	AQUARIUS, LESS GRAB BARS

UNIT NO	PUMPS						BASIN		MODEL
	NO.	GPM	HD	RPM	HP	VOLTAGE	DEPTH	DIA.	
SP-1	1	70	15'	3450	1/2	120V, 1Ø	N/A	N/A	HYDROMATIC SHEF45A1 W/ H2OIL ALARM & CS1200 CONTROL
SP-2	1	70	15'	3450	1/2	120V, 1Ø	N/A	N/A	HYDROMATIC SHEF45A1 W/ H2OIL ALARM & CS1200 CONTROL

UNIT NO	STORAGE CAP. (GALLONS)	RECOVERY RATE (GPH) 115° RISE	ELEMENT KW	VOLTAGE	MODEL
WH-CB1	6.0	10.0	3.0	120V, 1Ø	DEL-6S-3 (AO SMITH)

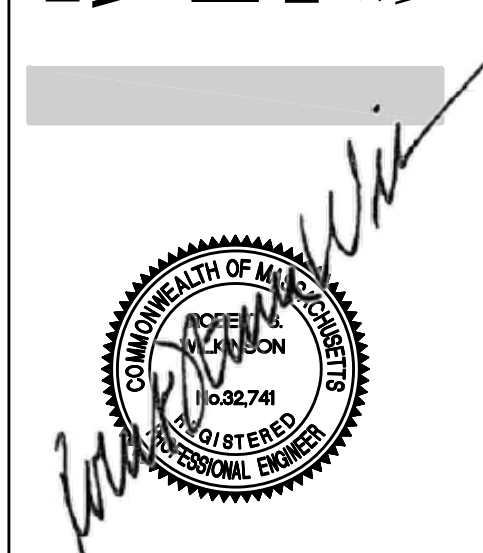
TAG	APPLICATION	OUTLET DIAMETER	TRAP	BODY	STRAINER		SEDIMENT BASEKET	MODEL	NOTES
					TYPE	MATERIAL			
A	CONCRETE DECK	SEE DRAWINGS	DEEP SEAL	CAST IRON	GRID	POLISHED BRNZ	NO	Z-415 W TYPE B STRAINER	ZURN
B	MECHANICAL ROOM	SEE DRAWINGS	DEEP SEAL	CAST IRON	GRID	CAST IRON	YES	Z-507-Y	ZURN

ALL FLOOR DRAINS SHALL BE FIT WITH SURE SEAL TRAP SEALING DEVICE AS MANUFACTURED BY RECTORSEAL-TRAP

UNIT NO	SERVICE	GPM	HD	HP	RPM	ELECTRICAL	TYPE	MODEL	REMARKS
HWR-1	DOMESTIC HOT WATER	6.0	16'	1/8	3250	120V, 1Ø	WET ROTOR	99 SERIES	ENOVATIVE "AUTO HOT" RECIRCULATING HOT WATER PACKAGE
HWR-2	DOMESTIC HOT WATER	8.0	16'	1/8	3250	120V, 1Ø	WET ROTOR	99 SERIES	ENOVATIVE "AUTO HOT" RECIRCULATING HOT WATER PACKAGE

UNIT NO	LOCATION/SERVICE	INPUT MBH	OUTPUT MBH	MAXIMUM OPERATING PRESSURE (PSIG)	EWL (°F)	LWT (°F)	WATER FLOW RATE (GPM)	RECOVERY GPH (Ø100° RISE)	WPD (FT)	GAS INLET PRESSURE (IN WC)	WEIGHT (LBS)	QTY	VOLTAGE	MANUFACTURERS MODEL NUMBER	STORAGE TANK CAPACITY (GALLONS)	STORAGE TANK QTY	MANUFACTURERS MODEL NUMBER	REMARKS
WH-E	MECHANICAL ROOM/ DOMESTIC HOT WATER	199.0	191.0	125	40.0	160.0	21	232	22	4"-14"	177	3	120/1/60	LOCHINVAR MODEL No. WAN-200-PM	119	2	LOCHINVAR MODEL No. RJA120	-
WH-F	MECHANICAL ROOM/ DOMESTIC HOT WATER	199.0	191.0	125	40.0	160.0	21	232	22	4"-14"	177	2	120/1/60	LOCHINVAR MODEL No. WAN-200-PM	119	2		

\*SYSTEM TO BE THE PACKAGED TYPE WITH CONTROLS, PUMPS AND APPURTENANCES FURNISHED BY THE WATER HEATER MANUFACTURER.



SHEET CONTENTS:  
PLUMBING:  
SCHEDULES

PROJECT # 1420  
DATE: 9/22/2020  
REVISED DATE:  
REVIS: 02/16/2021

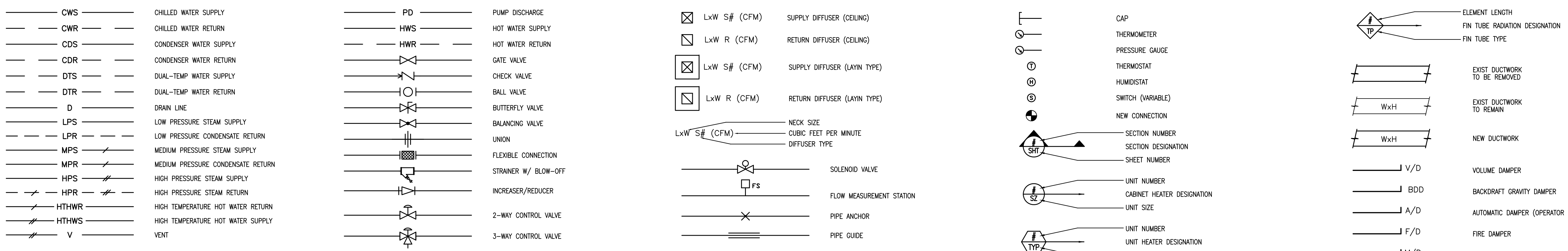
**P5.4**

CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

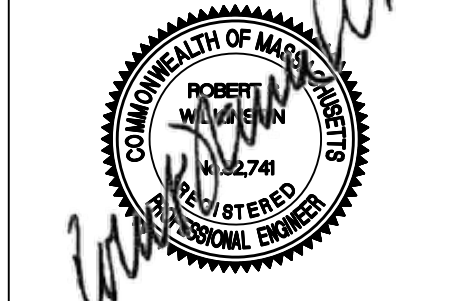
**ABBREVIATIONS**

AC	AIR CONDITIONING	CO	CLEANOUT	EQUIP	EQUIPMENT	HC	HEATING COIL	LD	LINEAR DIFFUSER	ODP	OPEN DRIP ROOF	RH	RELATIVE HUMIDITY	TOS	TOP OF STEEL
AD	ACCESS DOOR OR AUTOMATIC DAMPER	COMB	COMBINATION	EWB	ENTERING WET BULB TEMPERATURE	HD	HEAD	LED	LIGHT EMITTING DIODE	OS&Y	OUTSIDE SCREW & YOKE	RHC	REHEAT COIL	TOT	TOTAL HEAT
AFF	ABOVE FINISHED FLOOR	CONN	CONNECTION	EWG	ELECTRIC WATER COOLER	HEPA	HIGH EFFICIENCY PARTICULATE ARRESTOR	LL	LOW LIMIT	OZ	OUNCE	RL	REFRIGERATION LIQUID	TSP	TOTAL STATIC PRESSURE
AFS	AIR FLOW MEASURING STATION	CPU	CENTRAL PROCESSING UNIT	EWT	ENTERING WATER TEMPERATURE	HI	HIGH	LO	LOW	P	PUMP	RLA	RUNNING LOAD AMPS	TS	TAMPER SWITCH OR TEMP SENSOR
AHU	AIR HANDLING UNIT	CR	CURRENT RELAY	EXH	EXHAUST	HGT	HEIGHT	LP	LOW PRESSURE	PC	PUMPED CONDENSATE	RM	ROOM	TT	TEMPERATURE TRANSMITTER
AI	ANALOG INPUT	CS	CURRENT SWITCH	EXIST	EXISTING	HL	HIGH LIMIT	LPCR	LOW PRESSURE CONDENSATE RETURN	PCR	PROCESS COOLING RETURN	RO	ROOF OPENING	TYP	TYPICAL
AMD	AIRFLOW MEASURING DEVICE	CSS	CLEAN STEAM SUPPLY	FA	FRESH AIR	HOA	HAND OFF AUTOMATIC SELECTOR	LPS	LOW PRESSURE STEAM SUPPLY	PCS	PROCESS COOLING SUPPLY	RPM	REVOLUTIONS PER MINUTE	UCD	UNDERCUT DOOR
AO	ANALOG OUTPUT	CSCR	CLEAN STEAM CONDENSATE RETURN	FACP	FIRE ALARM CONTROL PANEL	HOR	HORIZONTAL	LRA	LOCKED ROTOR AMPS	PD	PRESSURE DROP	RR	RETURN REGISTER	UNOCC	UNOCCUPIED
AP	ACCESS PANEL	CUH	CABINET UNIT HEATER	FAS	FIRE ALARM SYSTEM	HP	HORSEPOWER	LS	LIMIT SWITCH	PDI	PRESSURE DIFFERENTIAL INDICATOR	RS	REFRIGERANT SUCTION	UH	UNIT HEATER
APD	AIR PRESSURE DROP	CV	CONSTANT VOLUME OR CONTROL VALVE	FC	FALL CLOSED	HPCR	HIGH PRESSURE CONDENSATE RETURN	LWT	LEAVING WATER TEMPERATURE	PDS	PRESSURE DIFFERENTIAL SENSOR	RV	REFRIGERANT VENT	UPS	UNINTERRUPTIBLE POWER SUPPLY
ATC	AUTOMATIC CONTROL CONTRACTOR	CW	COLD WATER	FCU	FAN COIL UNIT	HPS	HIGH PRESSURE STEAM SUPPLY	MAN	MANUAL	PDT	PRESSURE DIFFERENTIAL TRANSMITTER	S	SWITCH	V	VENT OR VOLTAGE
ATS	AUTOMATIC TRANSFER SWITCH	D	DRAIN	FCD	FLOOR CLEANOUT	HR	HOUR OR HUMIDITY RATIO	MAT	MIXED AIR TEMPERATURE	PE	PNEUMATIC ELECTRIC	S#	CEILING SUPPLY DIFFUSER	VAC	VACUUM
AUX	AUXILIARY	DA	DIRECT ACTING	FDC	FIRE DEPARTMENT CONNECTION	HS	HUMIDITY SENSOR	MAX	MAXIMUM	PH/Ø	PHASE	SA	SUPPLY AIR	VAV	VARIABLE AIR VOLUME
BAS	BUILDING AUTOMATION SYSTEM	DB	DRY BULB	FD	FLOOR DRAIN	HT	HUMIDITY TRANSDUCER	MBH	1000 BTU PER HOUR	PI	PREHEAT COIL	SAN	SANITARY WASTE	VD	VOLUME DAMPER
BD	BLOWDOWN	DCW	DOMESTIC COLD WATER	F/D	FIRE DAMPER	HTHWR	HIGH TEMPERATURE HOT WATER RETURN	MC	MECHANICAL CONTRACTOR	P/Ø	PNEUMATIC TO CURRENT TRANSDUCER	SCHWR	SECONDARY CHILLED WATER RETURN	VEL	VELOCITY
BDD	BACKDRAFT DAMPER	DDC	DIRECT DIGITAL CONTROL	FDC	FIRE DEPARTMENT CONNECTION	HTHWS	HIGH TEMPERATURE HOT WATER SUPPLY	MCA	MAX CIRCUIT AMPS	PHC	PREHEAT COIL	SCHWS	SECONDARY CHILLED WATER SUPPLY	VERT	VERTICAL
BF	BOILER FEED	DEG	DEGREE	FH	FUME HOOD	HUM	HUMIDITY	MCC	MOTOR CONTROL CENTER	PID	PROPORTIONAL INTERGRATE AND DERIVATIVE	SD	SMOKE DAMPER	VFD	VARIABLE FREQUENCY DRIVE
BFP	BACKFLOW PREVENTER	DHW	DOMESTIC HOT WATER	FLA	FULL LOAD AMPS	HVAC	HEATING, VENTILATING, AIR CONDITIONING	M/D	MOTORIZED DAMPER	PIV	POST INDICATOR VALVE	SEC	SECOND	VI	VALVE IN VERTICAL
BHP	BRAKE HORSEPOWER	DI	DIGITAL INPUT	FLEX	FLEXIBLE	HV	HEATING & VENTILATING	MECH	MECHANICAL	PLC	PROGRAMMABLE LOGIC CONTROLLER	SEF	SMOKE EXHAUST FAN	VTR	VENT THROUGH ROOF
BLDG	BUILDING	DIA	DIAMETER	FLG	FLANGED	HW	HOT WATER	MER	MECHANICAL EQUIPMENT ROOM	PNEU	PNEUMATIC	SENS	SENSIBLE HEAT	W	WIDTH OR WASTE
BLR	BOILER	DL	DOOR LOUVER	FLR	FLOOR	HWR	HOT WATER RETURN / RECIRCULATION	MFR	MANUFACTURER	PPH	POUNDS PER HOUR	SHWR	SECONDARY HEATING HOT WATER RETURN	W/	WITH
BO	BLOW OFF	DN	DOWN	FO	FAIL OPEN OR FUEL OIL	HWS	HOT WATER SUPPLY	MGS	MANUAL GRADUAL SWITCH	PR	PRESSURE	SHWS	SECONDARY HEATING HOT WATER SUPPLY	WB	WET BULB
BOD	BOTTOM OF DUCT	DO	DIGITAL OUTPUT	FOD	FUEL OIL DISCHARGE	IA	INSTRUMENT AIR	MIN	MINIMUM	PRV	PRESSURE REDUCING VALVE	SP	STATIC PRESSURE	WC	WATER CLOSET/ COLUMN
BOP	BOTTOM OF PIPE	DP	DIFFERENTIAL PRESSURE	FOR	FUEL OIL RETURN	I&C	INSTRUMENT AND CONTROL	MOD	MOTOR OPERATED DAMPER	PSF	POUNDS PER SQUARE FOOT	SPEC	SPECIFICATION	WFS	WATER FLOW SWITCH
BOS	BOTTOM OF STEEL / STRUCTURE	DPT	DIFFERENTIAL PRESSURE TRANSMITTER	FOS	FUEL OIL SUPPLY	ID	INSIDE DIAMETER	MPCR	MEDIUM PRESSURE CONDENSATE RETURN	PSIG	POUNDS PER SQUARE INCH GAUGE	SF	SQUARE FEET	WG	WATER GAUGE
BOT	BOTTOM	DR	DRAIN	FFP	FINS PER FOOT	IFB	INTERNAL FACE AND BYPASS	MPS	MEDIUM PRESSURE STEAM SUPPLY	PSI	POUNDS PER SQUARE INCH	SR	SUPPLY REGISTER	WMS	WIRE MESH SCREEN
BPD	BY-PASS DAMPER	DT	DIFFERENTIAL TEMPERATURE	FPM	FEET PER MINUTE	IN	INCHES	MTR	MOTOR	PST	PRESSURE TRANSMITTER	SRV	SAFETY RELIEF VALVE/VENT	W/O	WITHOUT
BTU	BRITISH THERMAL UNIT	DWG	DRAWING	FPS	FEET PER SECOND	IN HG	INCHES MERCURY	NC	NORMALLY CLOSED OR NOISE CRITERIA	RA	RETURN AIR	SS	STAINLESS STEEL		
BTUH	BRITISH THERMAL UNITS PER HOUR	DX	DIRECT EXPANSION	FS	FLOW SWITCH	INS	INSULATION	NG	NATURAL GAS	RAD	RETURN AIR DAMPER	SYS	SYSTEM		
C	CENTER LINE	EA	EXHAUST AIR	FT	FLOW TRANSMITTER OR FEET	IN WG	INCHES WATER GAUGE	NIC	NOT IN CONTRACT	RAF	RETURN AIR FAN	TSTAT	THERMOSTAT		
CA	COMPRESSED AIR	EAD	EXHAUST AIR DAMPER	FTR	FINNED TUBE RADIATION	INV	INVERT	NO	NORMALLY OPEN OR NUMBER	RCP	REMOTE CONTROL PANEL	TA	TOTAL AIR		
CAV	CONSTANT AIR VOLUME	EAT	ENTERING AIR TEMPERATURE	FUT	FUTURE	INV EL	INVERT ELEVATION	NPW	NON POTABLE WATER	RCP	REFLECTED CEILING PLAN	TEFC	TOTALLY ENCLOSED FAN COOLED		
CC	COMPRESSOR CONDENSER	EC	ELECTRICAL CONTRACTOR	G	NATURAL GAS (PIPING)	I/O	INPUT / OUTPUT	NTS	NOT TO SCALE	RD	ROOF DRAIN	TEMP	TEMPERATURE		
CD	CONDENSATE DRAIN	EDB	ENTERING DRY BULB TEMPERATURE	GA	GAUGE	IP	CURRENT TO PNEUMATIC	OA	OUTSIDE AIR	RCP	REMOTE CONTROL PANEL	TI	TEMPERATURE INDICATOR		
CDR	CONDENSER WATER RETURN	EF-#	EXHAUST FAN	GAL	GALLON	ISP	INTERNAL STATIC PRESSURE	OAD	OUTSIDE AIR DAMPER	RCP	REFLECTED CEILING PLAN	TMV	TEMPERATURE MIXING VALVE		
CDS	CONDENSER WATER SUPPLY	EFF	EFFICIENCY	GC	GENERAL CONTRACTOR	IW	INDIRECT WASTE	OAI	OUTSIDE AIR INTAKE	REQ'D	REQUIRED	TOD	TOP OF DUCT		
°C	CENTIGRADE	EG	EXHAUST GRILLE	GEN	GENERATOR	KW	KILOWATT	OAT	OUTSIDE AIR TEMPERATURE	RF	RETURN FAN	TOP	TOP OF PIPE		
CF	CHEMICAL FEED	EL	ELEVATION	GPH	GALLONS PER HOUR	L	LENGTH	OBD	OPPOSED BLADE DAMPER	RG	RETURN GRILLE				
CFM	CUBIC FEET PER MINUTE	EMS	ELECTRIC MOTOR STARTER	GPM	GALLONS PER MINUTE	LAN	LOCAL AREA NETWORK	OC	ON CENTER						
CHW	PRIMARY CHILLED WATER	ENT	ENTERING	GWR	GLYCOL WATER RETURN	LAT	LEAVING AIR TEMPERATURE	OCC	OCCUPIED						
CHWR	CHILLED WATER RETURN	EP	ELECTRIC-PNEUMATIC	GWS	GLYCOL WATER SUPPLY	LAV	LAVATORY	OD	OUTSIDE DIAMETER						
CHWS	CHILLED WATER SUPPLY	ESP	EXTERNAL STATIC PRESSURE	H	HUMIDISTAT	LB/HR	POUNDS PER HOUR								
CLG	CEILING	ET	EXPANSION TANK	HB	HOSE BIB	LBS	POUNDS								

**PIPING & SYMBOLS**



CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021



SHEET CONTENTS:  
**MECHANICAL:  
ABBREVIATIONS,  
SYMBOLS AND  
LEGENDS**

PROJECT # 1420

DATE: 9/22/2020  
REVISED DATE:  
REVISED: 02/16/2021

**MO.0**

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7. CONCEAL ALL HVAC EQUIPMENT & PIPES IN WALLS, CEILINGS, CHASES OR WALLS IN FINISHED SPACES.

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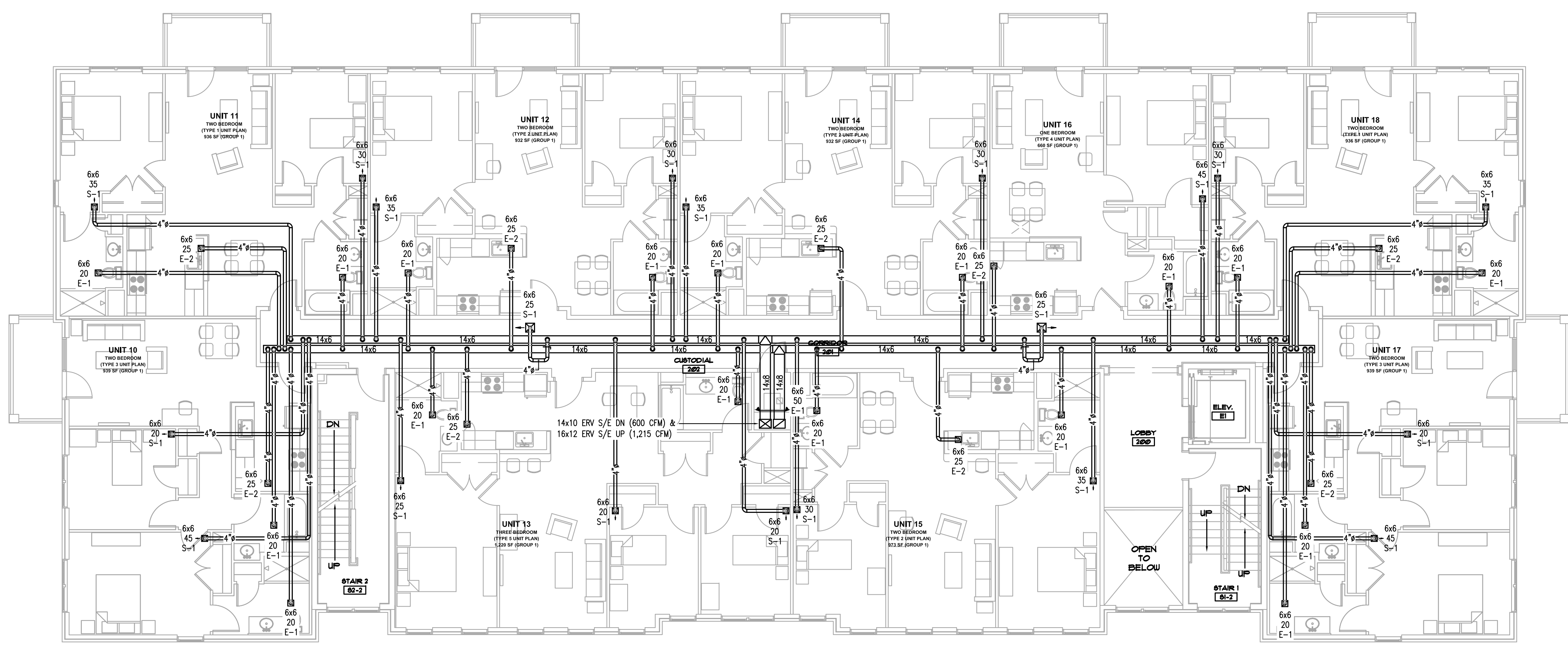
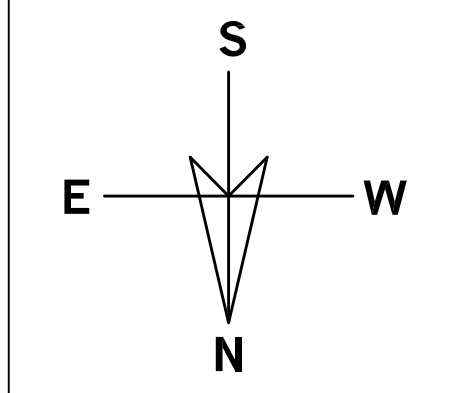
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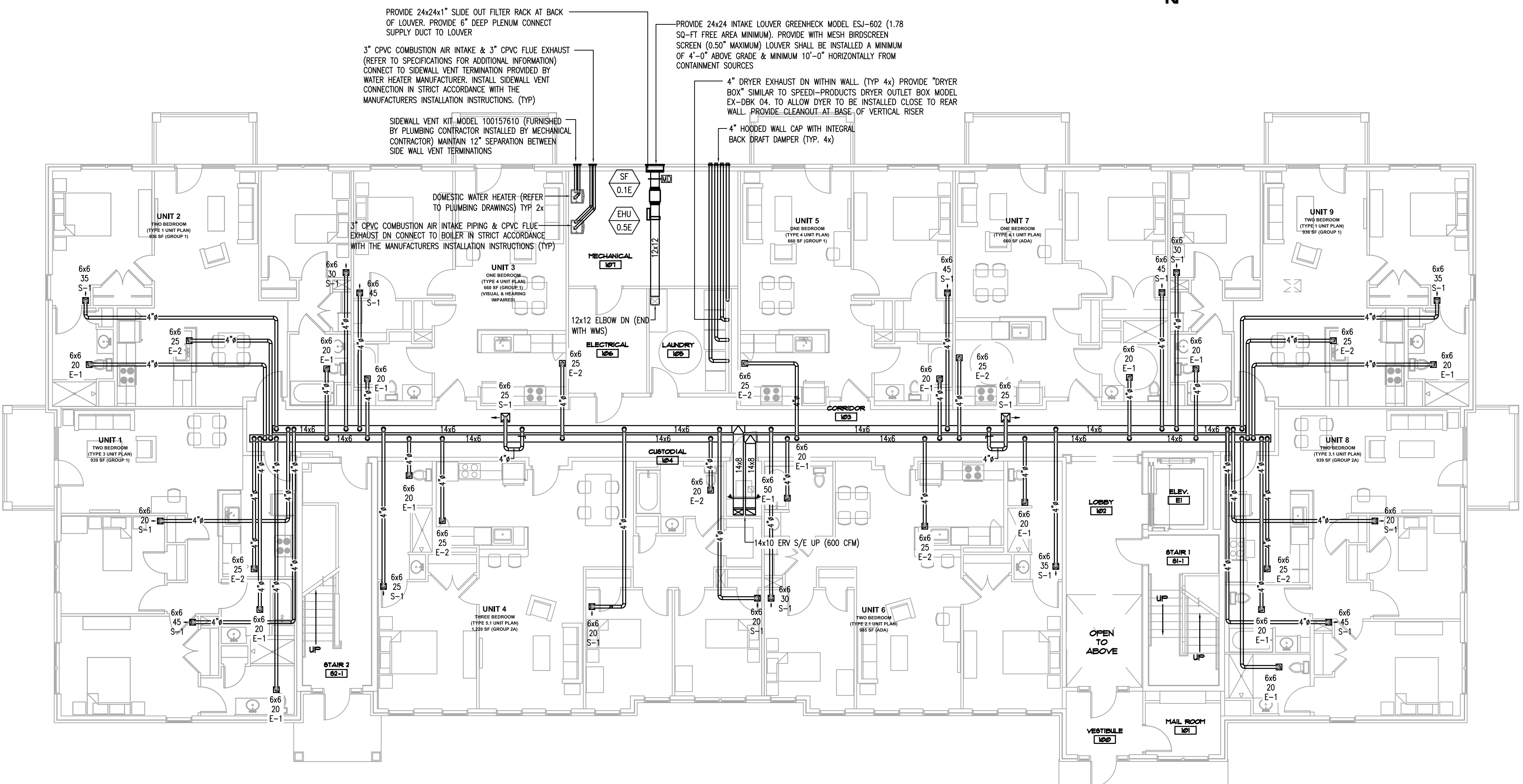
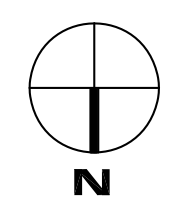
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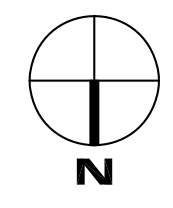
**Ed Wojcik**  
architect, ltd  
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401-861-7139



**2 MECHANICAL: BUILDING E, SECOND FLOOR PLAN**  
M1.0 SCALE: 1/8" = 1'-0"



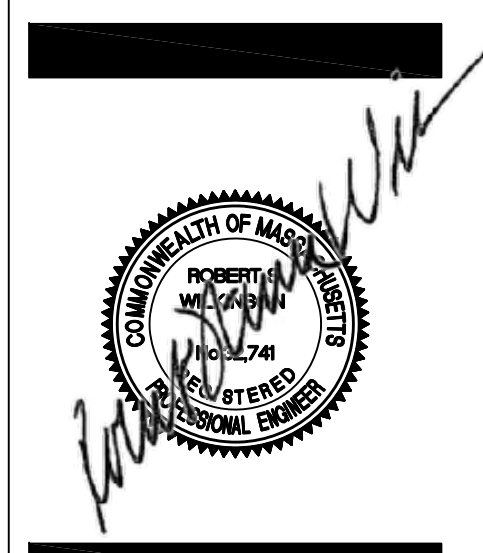
**1 MECHANICAL: BUILDING E, FIRST FLOOR PLAN**  
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- PROVIDE 24x24x1" SLIDE OUT FILTER RACK AT BACK OF LOUVER. PROVIDE 6" DEEP PLENUM CONNECT SUPPLY DUCT TO LOUVER
- 3" CPVC COMBUSTION AIR INTAKE & 3" CPVC FLUE EXHAUST (REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION) CONNECT TO SIDEWALL VENT TERMINATION PROVIDED BY WATER HEATER MANUFACTURER. INSTALL SIDEWALL VENT CONNECTION IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. (TYP)
- SIDEWALL VENT KIT MODEL 100157610 (FURNISHED BY PLUMBING CONTRACTOR INSTALLED BY MECHANICAL CONTRACTOR) MAINTAIN 12" SEPARATION BETWEEN SIDE WALL VENT TERMINATIONS
- PROVIDE 24x24 INTAKE LOUVER GREENHECK MODEL ESJ-602 (1.78 SQ-FT FREE AREA MINIMUM). PROVIDE WITH MESH BIOSCREEN SCREEN (0.50" MAXIMUM) LOUVER SHALL BE INSTALLED A MINIMUM OF 4'-0" ABOVE GRADE & MINIMUM 10'-0" HORIZONTALLY FROM CONTAINMENT SOURCES
- 4" DRYER EXHAUST DN WITHIN WALL. (TYP 4x) PROVIDE "DRYER BOX" SIMILAR TO SPEEDI-PRODUCTS DRYER OUTLET BOX MODEL EX-DBK 04. TO ALLOW DYER TO BE INSTALLED CLOSE TO REAR WALL. PROVIDE CLEANOUT AT BASE OF VERTICAL RISER
- 4" HOODED WALL CAP WITH INTEGRAL BACK DRAFT DAMPER (TYP. 4x)

CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

Proposed Design for:  
**Woodland Cove**  
**Phase 1**  
Buildings E, F, & COMMUNITY BUILDING  
3102 Cranberry Highway  
Wareham, MA 02552



SHEET CONTENTS:  
MECHANICAL:  
BUILDING E FIRST &  
SECOND FLOOR  
PLANS -  
DUCTWORK

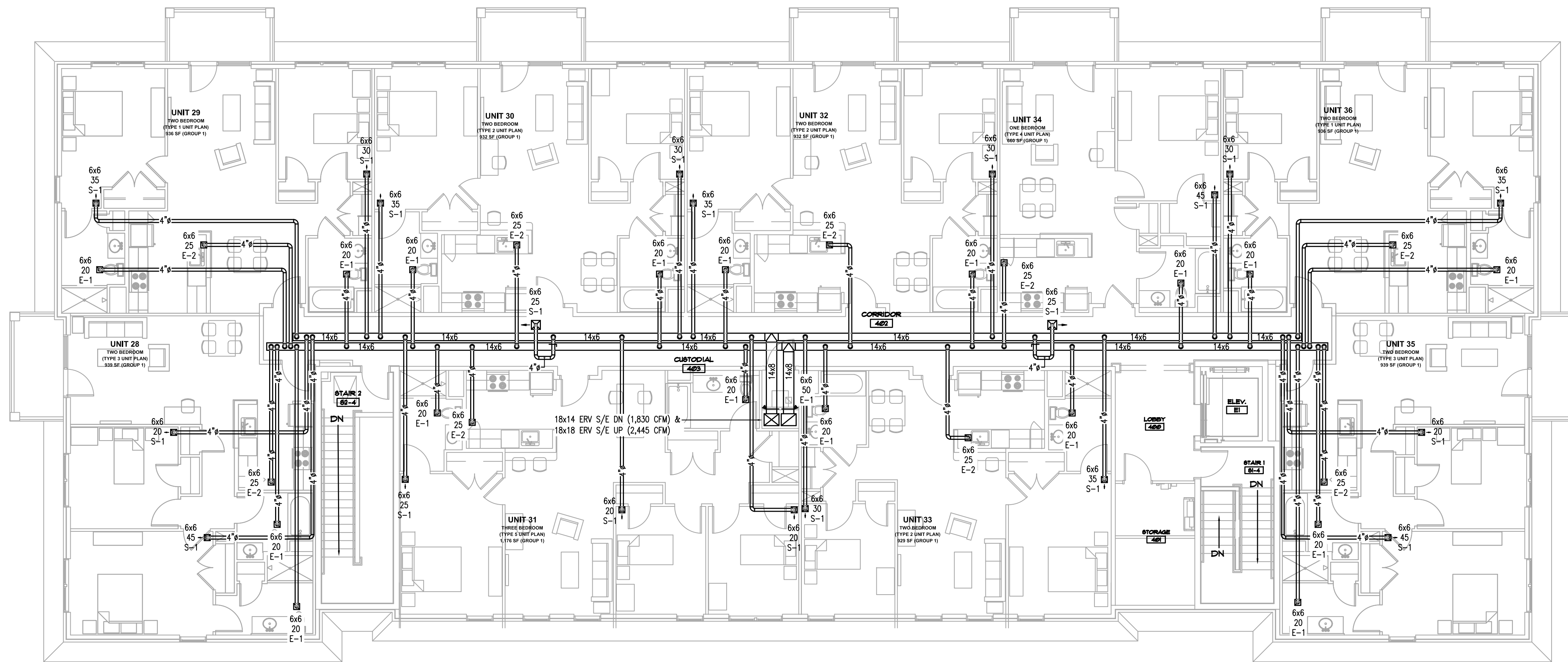
PROJECT # 1420  
DATE: 9/22/2020  
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**M1.0**

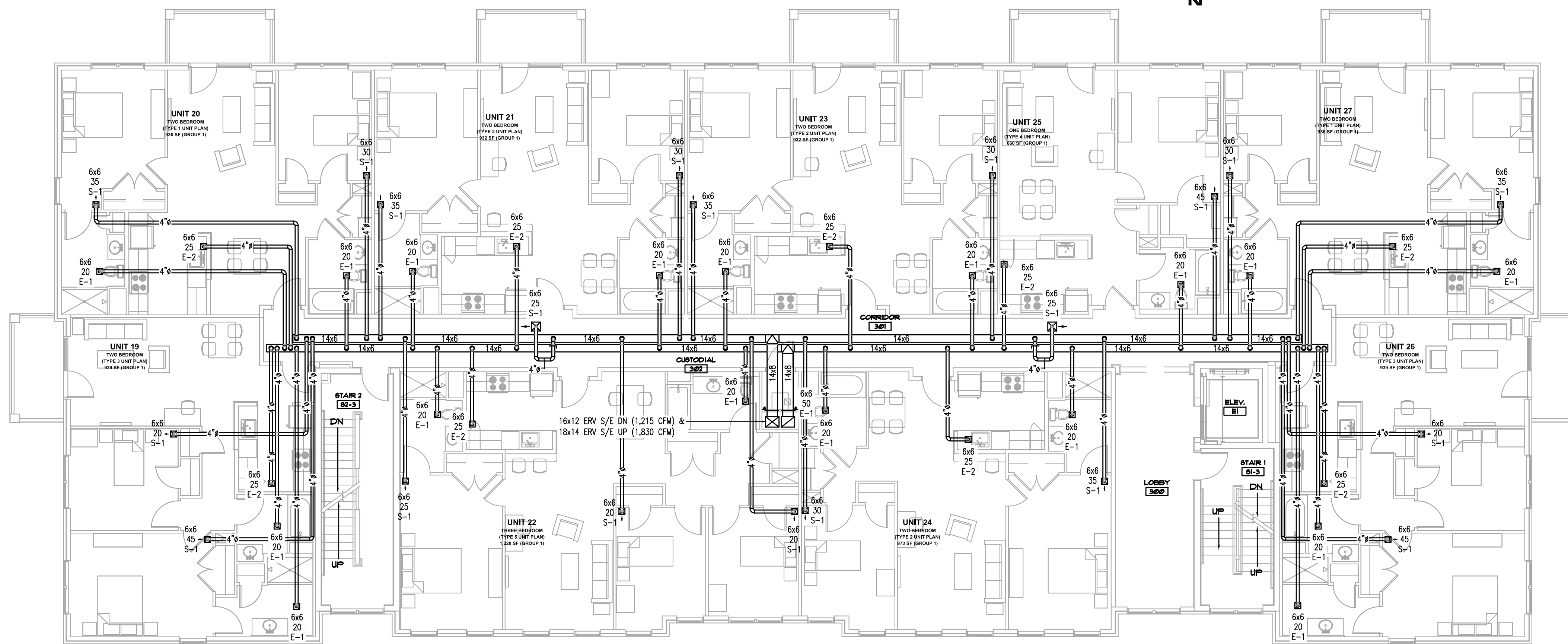
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**2 MECHANICAL: BUILDING E, FOURTH FLOOR PLAN**  
 M1.1 SCALE: 1/8" = 1'-0"



**1 MECHANICAL: BUILDING E, THIRD FLOOR PLAN**  
 M1.1 SCALE: 1/8" = 1'-0"



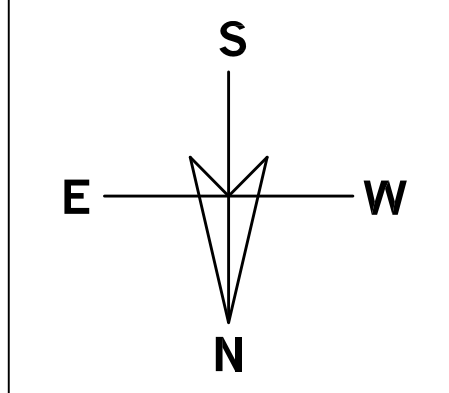
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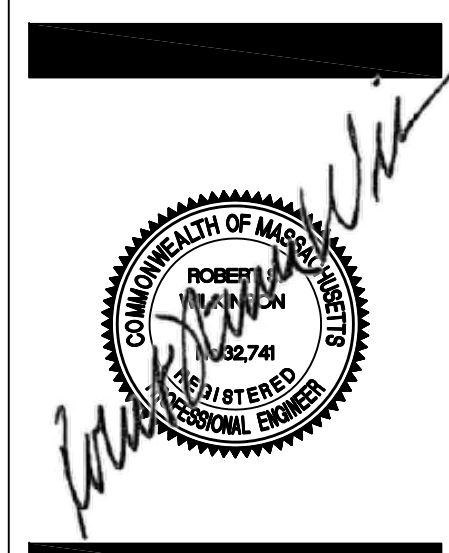
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Proposed Design for:  
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SHEET CONTENTS:  
 MECHANICAL:  
 BUILDING E THIRD  
 & FOURTH FLOOR  
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 DUCTWORK

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**M1.1**

CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

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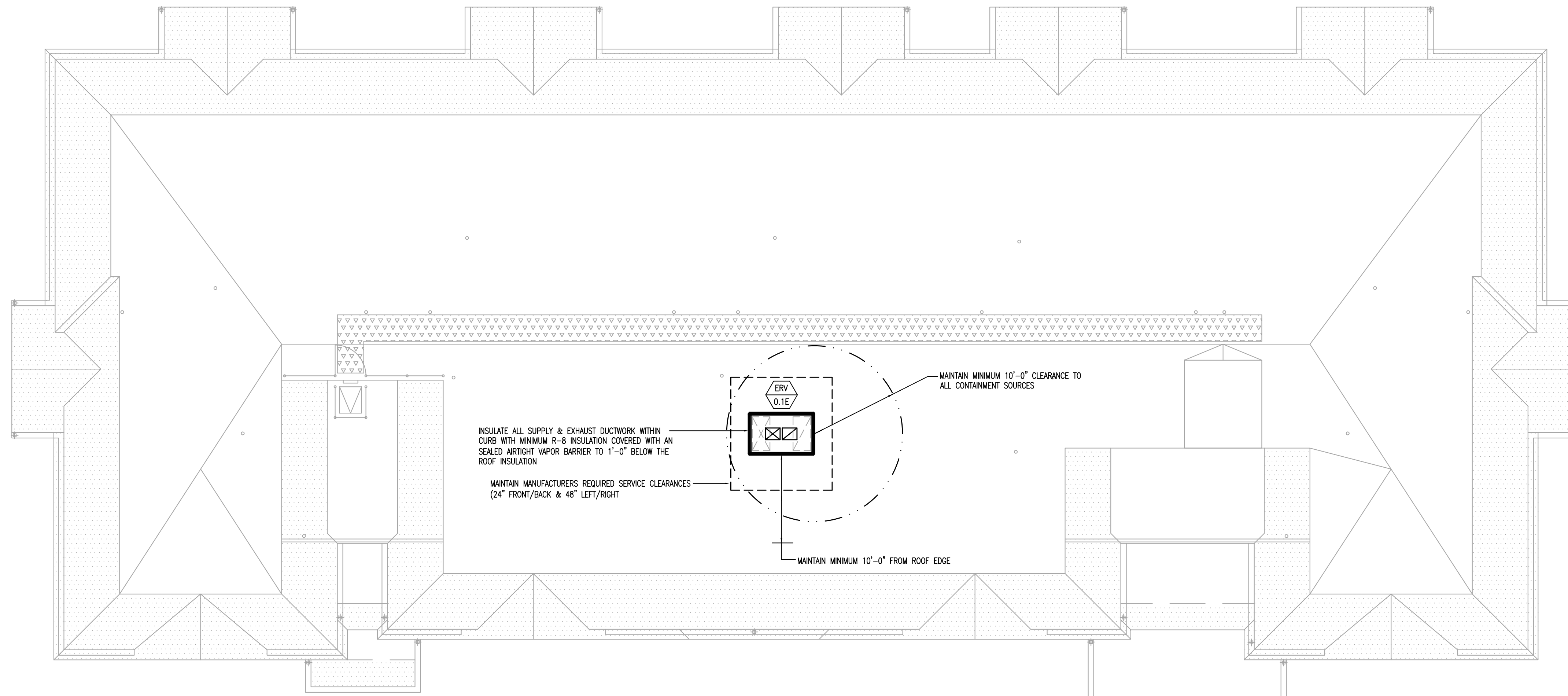
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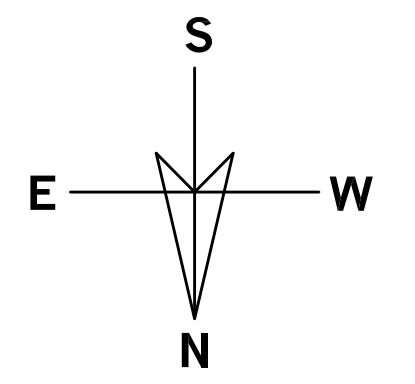
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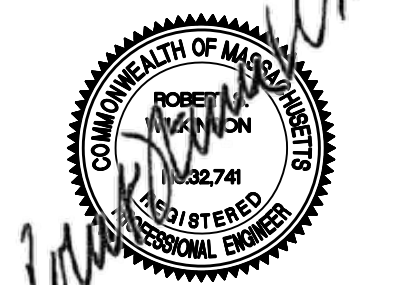
**1** MECHANICAL: BUILDING E, ROOF PLAN  
**M1.2** SCALE: 1/8" = 1'-0"



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SHEET CONTENTS:  
 MECHANICAL:  
 BUILDING E  
 ROOF PLAN -  
 DUCTWORK

PROJECT # 1420  
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**M1.2**

CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

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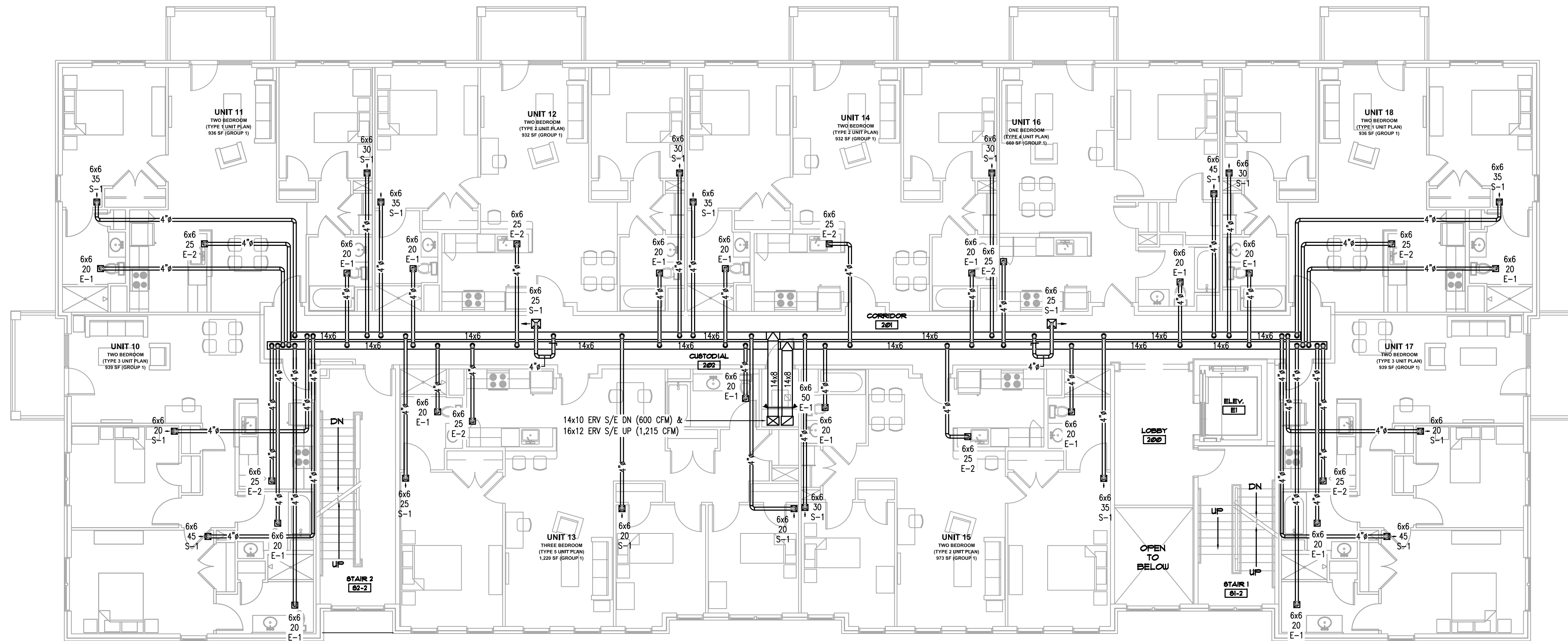
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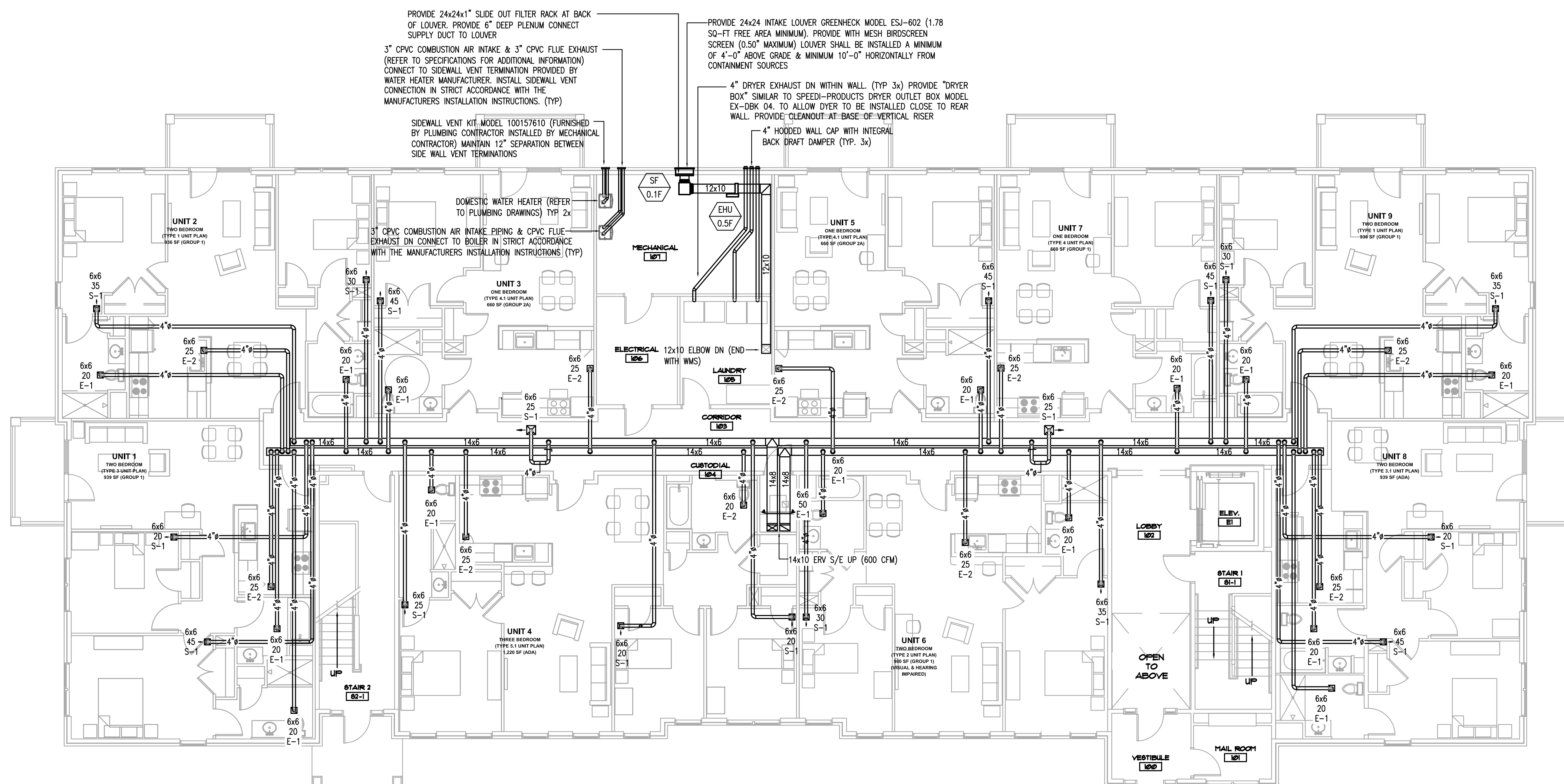
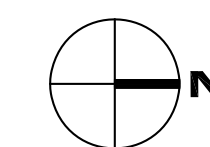
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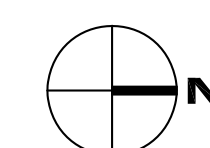
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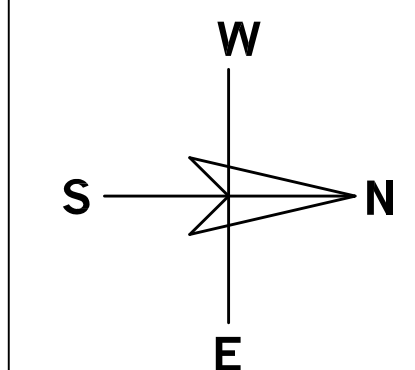
**2** MECHANICAL: BUILDING F, SECOND FLOOR PLAN  
M1.3 SCALE: 1/8" = 1'-0"



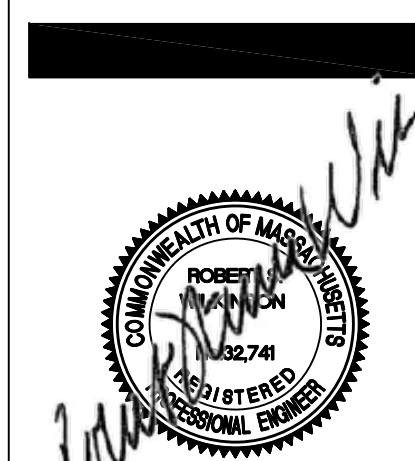
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SHEET CONTENTS:  
MECHANICAL:  
BUILDING F FIRST &  
SECOND FLOOR  
PLANS -  
DUCTWORK

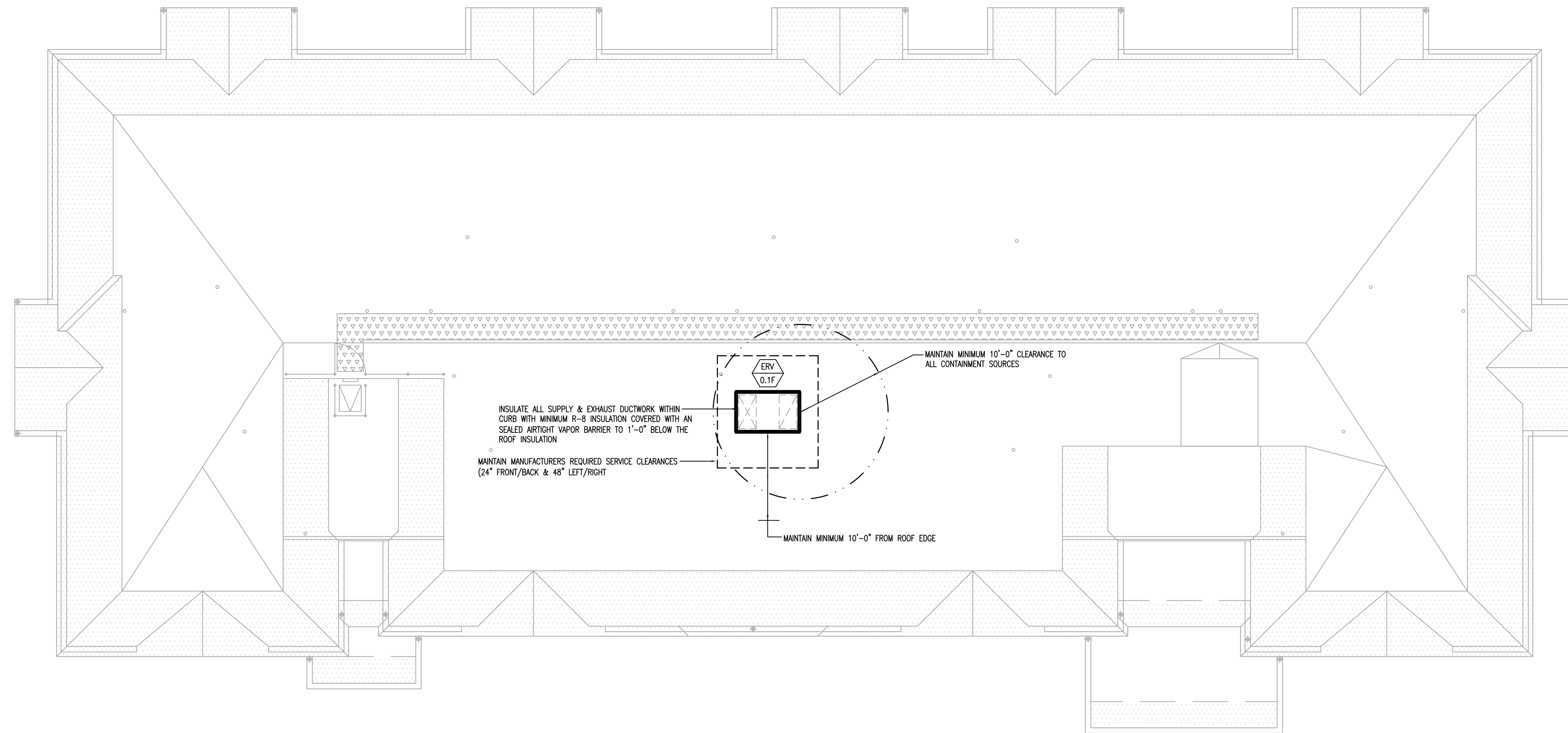
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**M1.3**

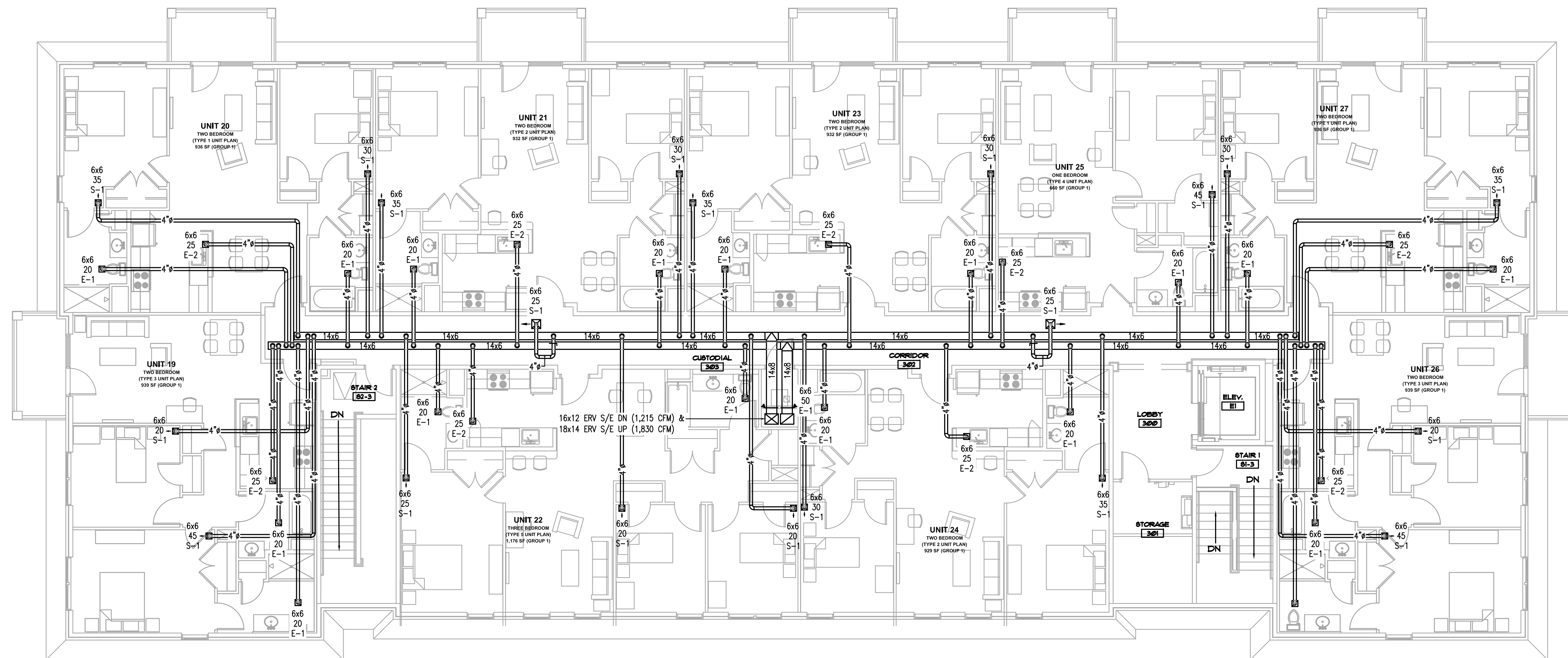
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M1.4 SCALE: 1/8" = 1'-0"



**1 MECHANICAL: BUILDING F, THIRD FLOOR PLAN**  
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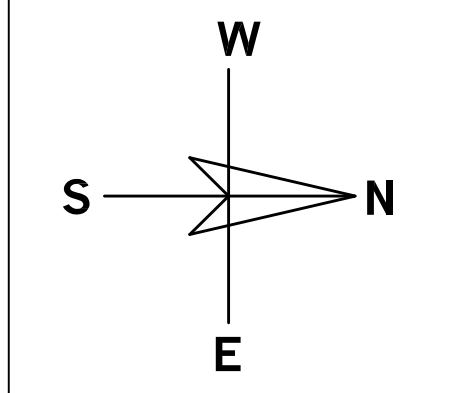
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architect, ltd  
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Providence, RI 02906  
401-861-7139



Proposed Design for:  
**Woodland Cove**  
**Phase 1**  
Buildings E, F, & COMMUNITY BUILDING  
3102 Cranberry Highway  
Wareham, MA 02552



SHEET CONTENTS:  
MECHANICAL:  
BUILDING F THIRD  
FLOOR & ROOF  
PLANS -  
DUCTWORK

PROJECT # 1420  
DATE: 9/22/2020  
REVISED DATE:  
REVISED: 02/16/2021

**M1.4**

CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021



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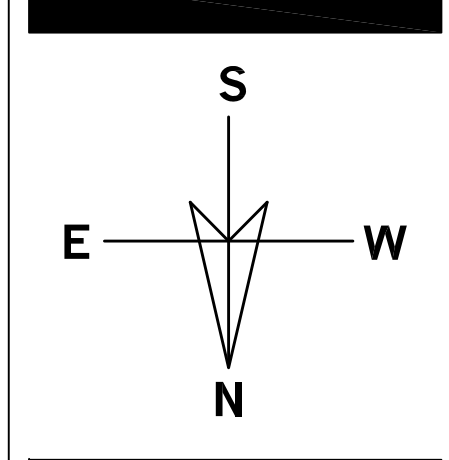
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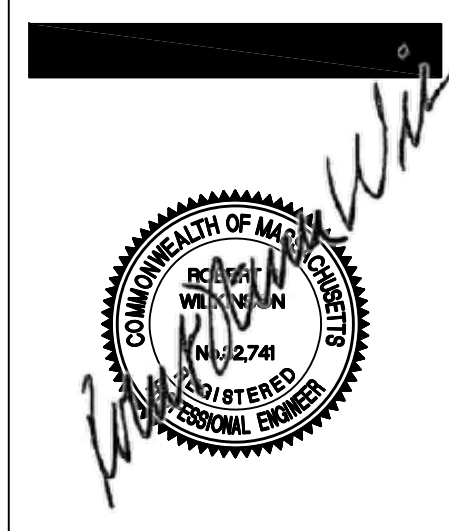
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**SHEET CONTENTS:**  
MECHANICAL:  
BUILDING E FIRST &  
SECOND FLOOR  
PLANS - PIPING

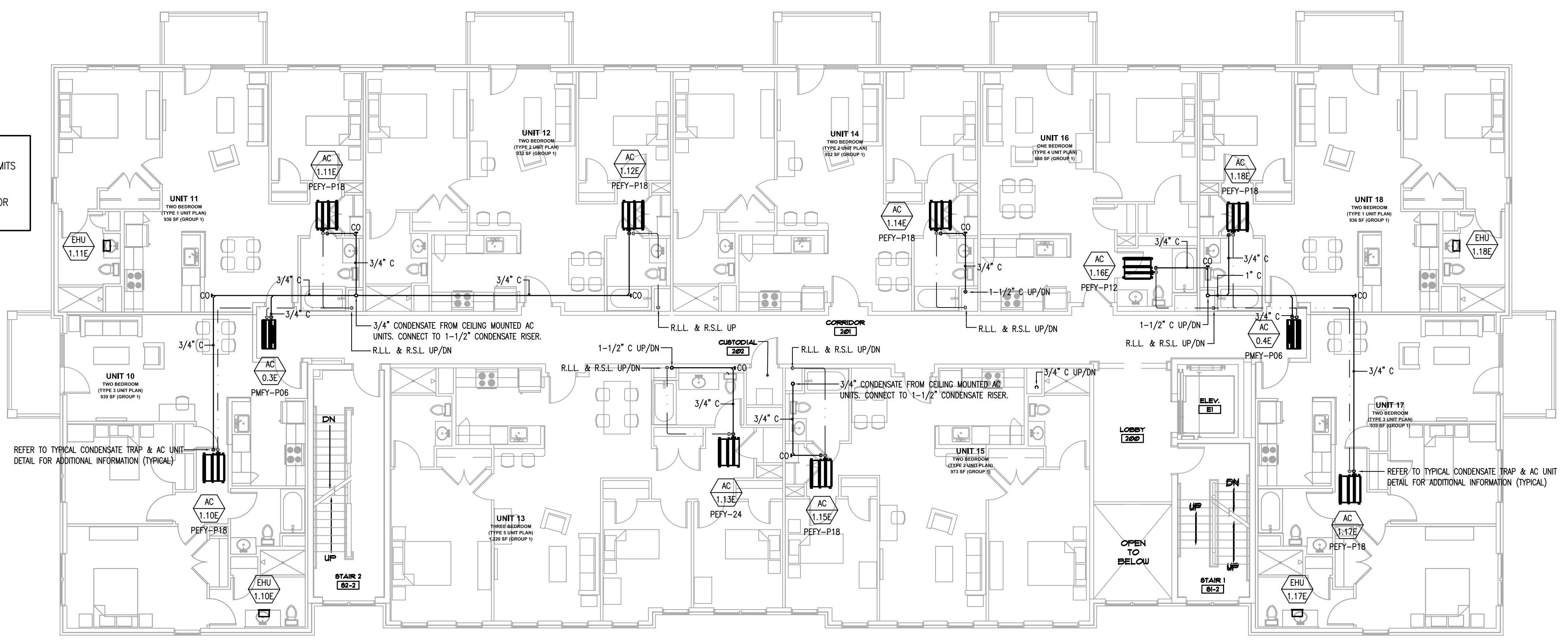
PROJECT # 1420  
DATE: 9/22/2020  
REVISED DATE:  
REVISED: 02/16/2021

**M2.0**

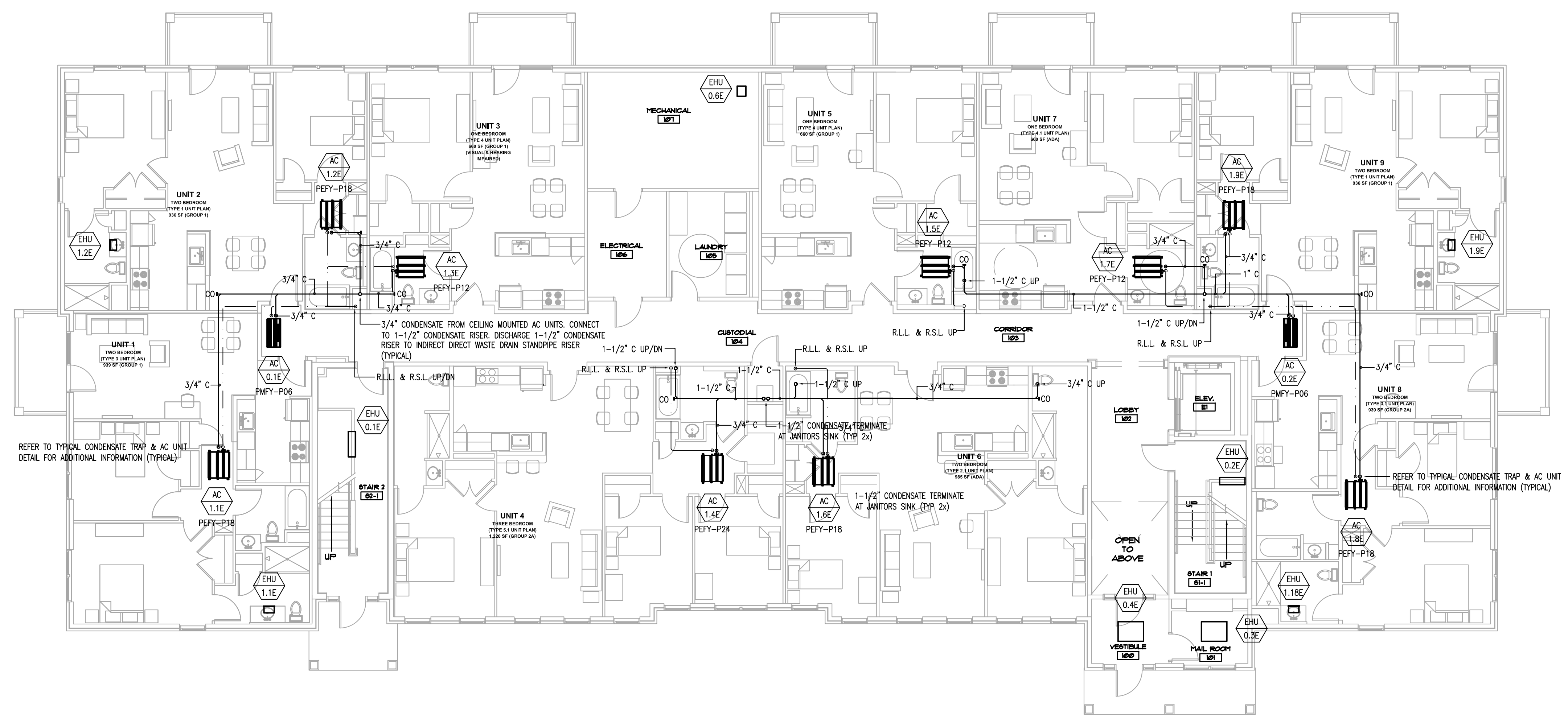
CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

**GENERAL NOTES**

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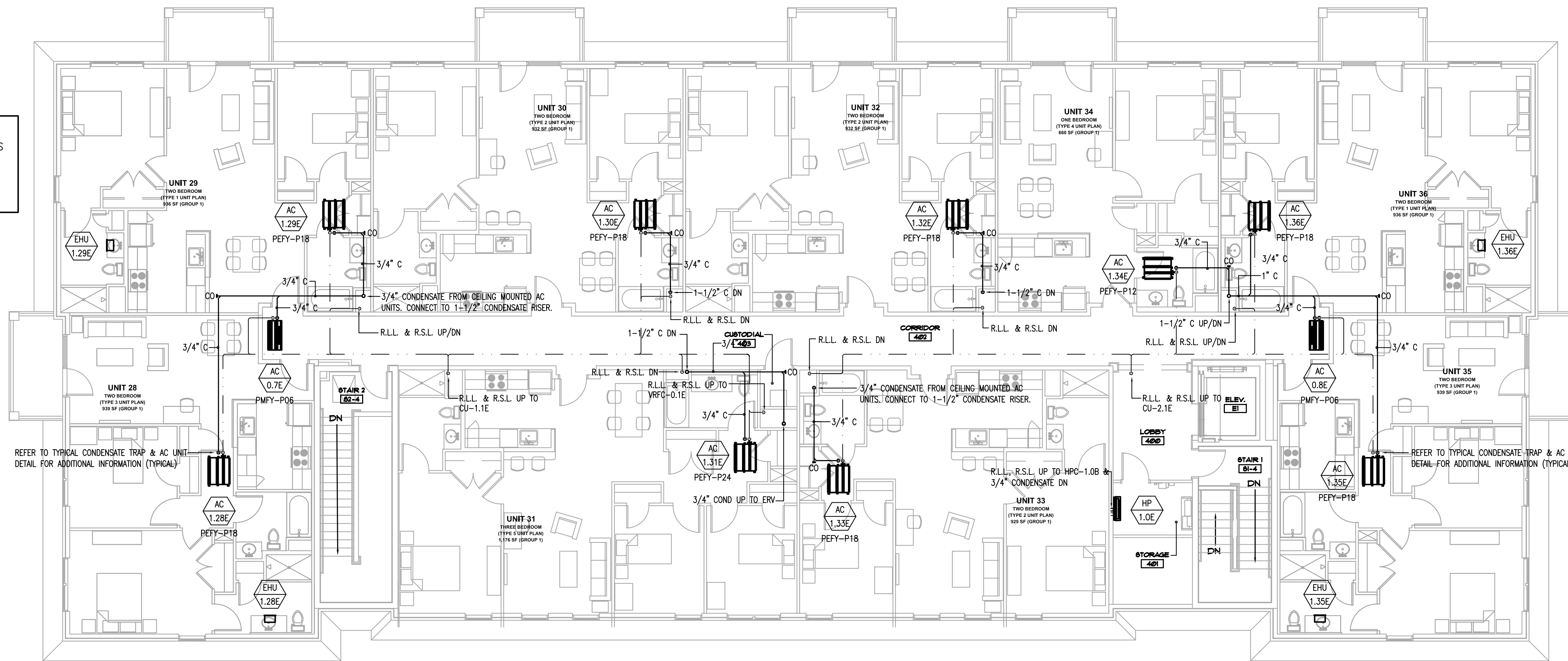
**2** MECHANICAL: BUILDING E, SECOND FLOOR PLAN  
SCALE: 1/8" = 1'-0"  
N



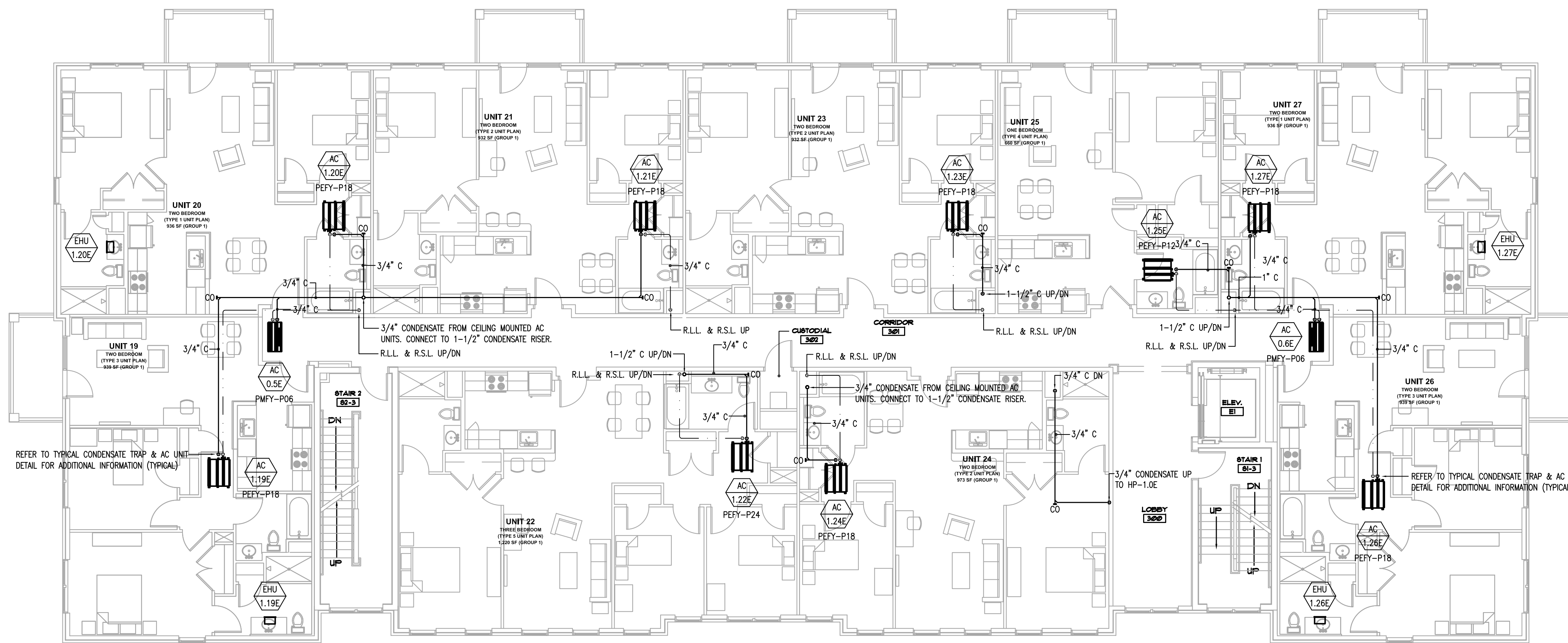
**1** MECHANICAL: BUILDING E, FIRST FLOOR PLAN  
SCALE: 1/8" = 1'-0"  
N

**GENERAL NOTES**

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**2 MECHANICAL: BUILDING E, FOURTH FLOOR PLAN**  
**M2.1 SCALE: 1/8" = 1'-0"**



**1 MECHANICAL: BUILDING E, THIRD FLOOR PLAN**  
**M2.1 SCALE: 1/8" = 1'-0"**



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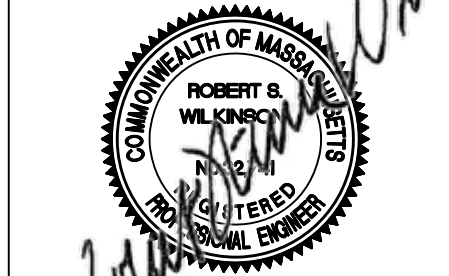
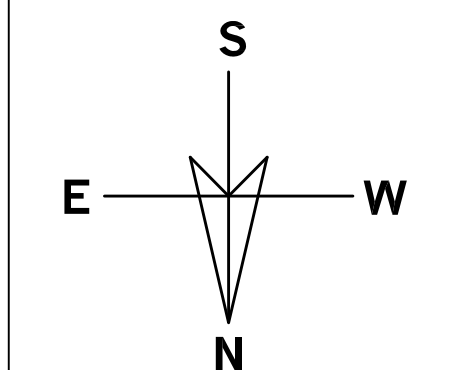
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**SHEET CONTENTS:**  
 MECHANICAL:  
 BUILDING E THIRD  
 & FOURTH FLOOR  
 PLANS - PIPING

PROJECT # 1420  
 DATE: 9/22/2020  
 REVISED DATE:  
 REVISED: 02/16/2021

**M2.1**

CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

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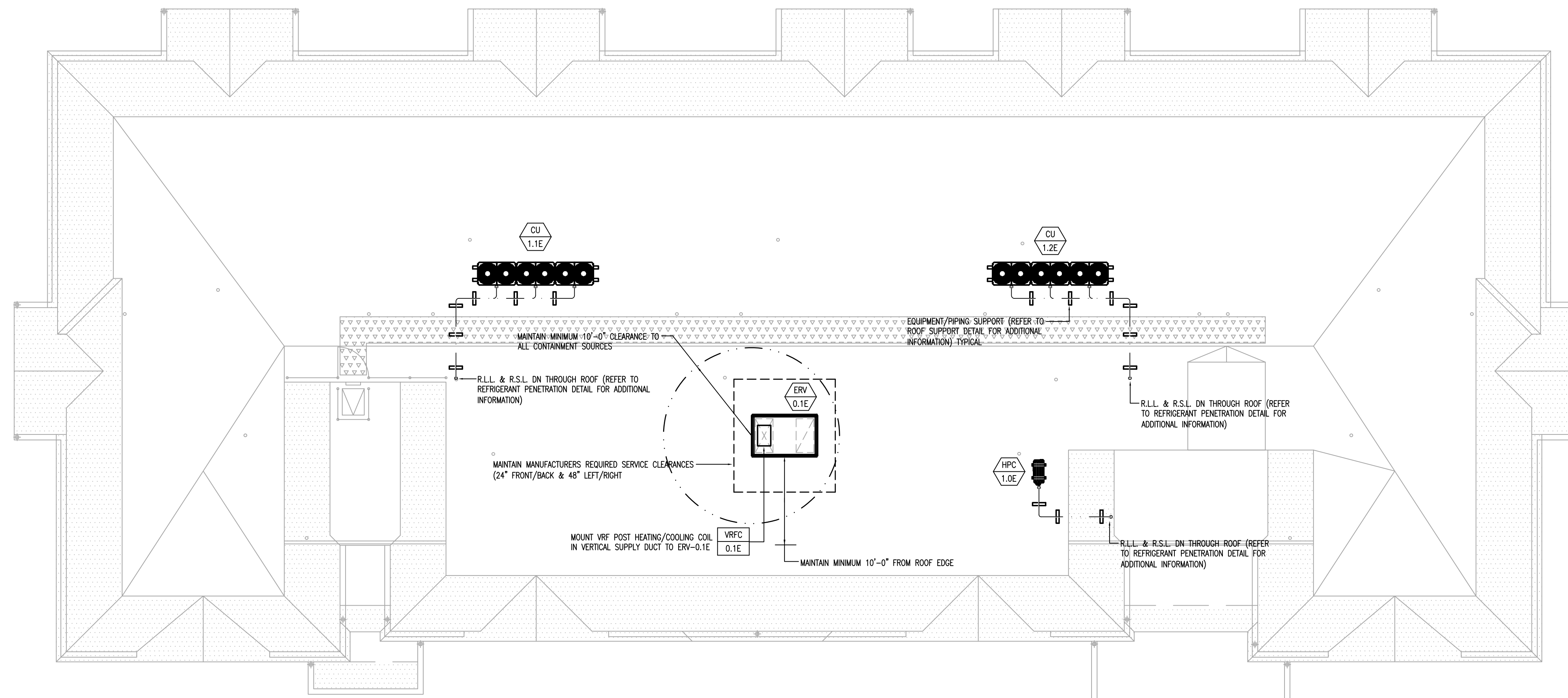
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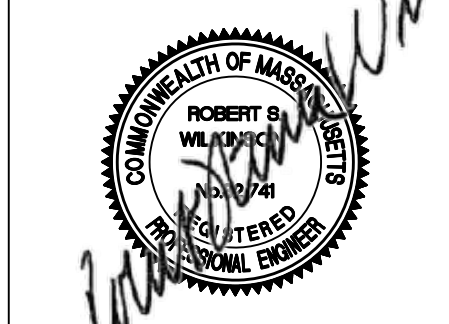
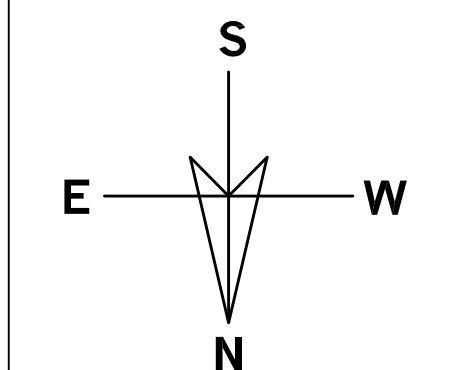
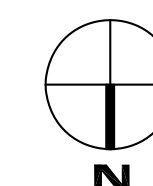
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**1** MECHANICAL: BUILDING E, ROOF PLAN  
**M2.2** SCALE: 1/8" = 1'-0"



**SHEET CONTENTS:**  
 MECHANICAL:  
 BUILDING E  
 ROOF PLAN -  
 PIPING

PROJECT # 1420  
 DATE: 9/22/2020  
 REVISED DATE:  
 REVISOR: 02/16/2021

**M2.2**

CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

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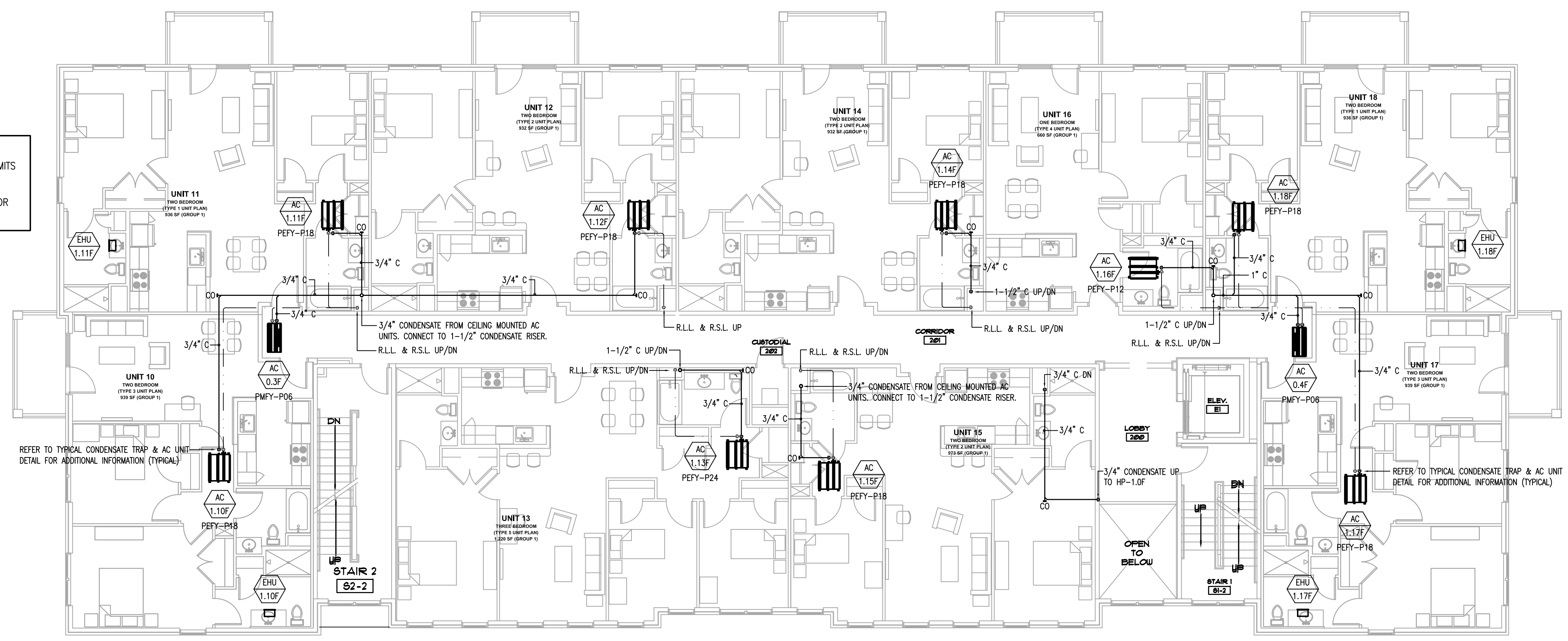
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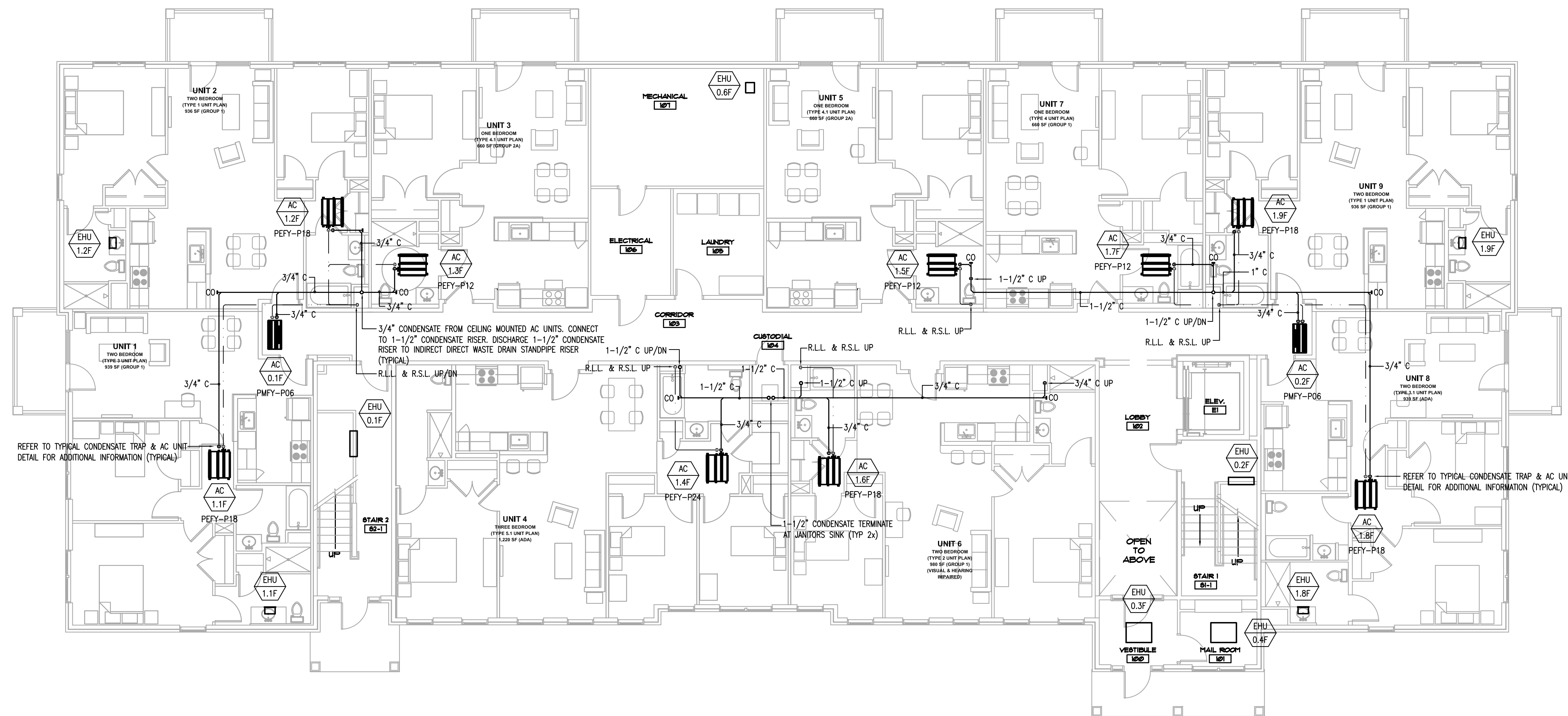
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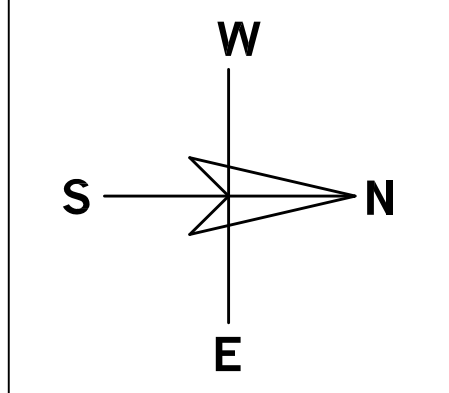
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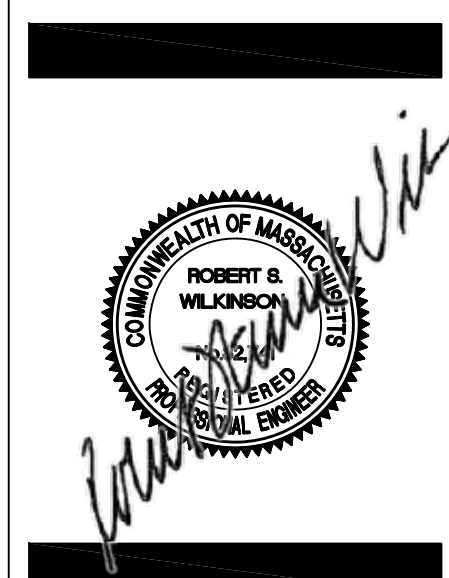
**2 MECHANICAL: BUILDING F, SECOND FLOOR PLAN**  
SCALE: 1/8" = 1'-0"



**1 MECHANICAL: BUILDING F, FIRST FLOOR PLAN**  
SCALE: 1/8" = 1'-0"



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**SHEET CONTENTS:**  
MECHANICAL:  
BUILDING F FIRST  
& SECOND FLOOR  
PLANS - PIPING

PROJECT # 1420  
DATE: 9/22/2020  
REVISED DATE:  
REVISED: 02/16/2021

**M2.3**

CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

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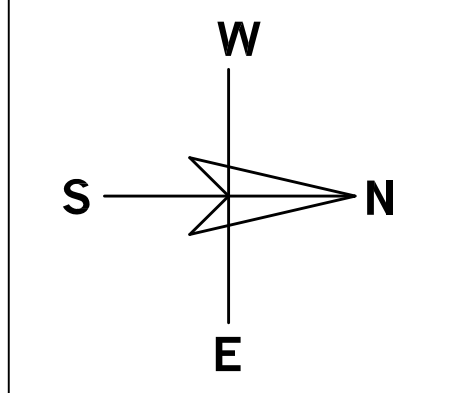
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**SHEET CONTENTS:**  
MECHANICAL:  
BUILDING F THIRD  
FLOOR & ROOF  
PLANS - PIPING

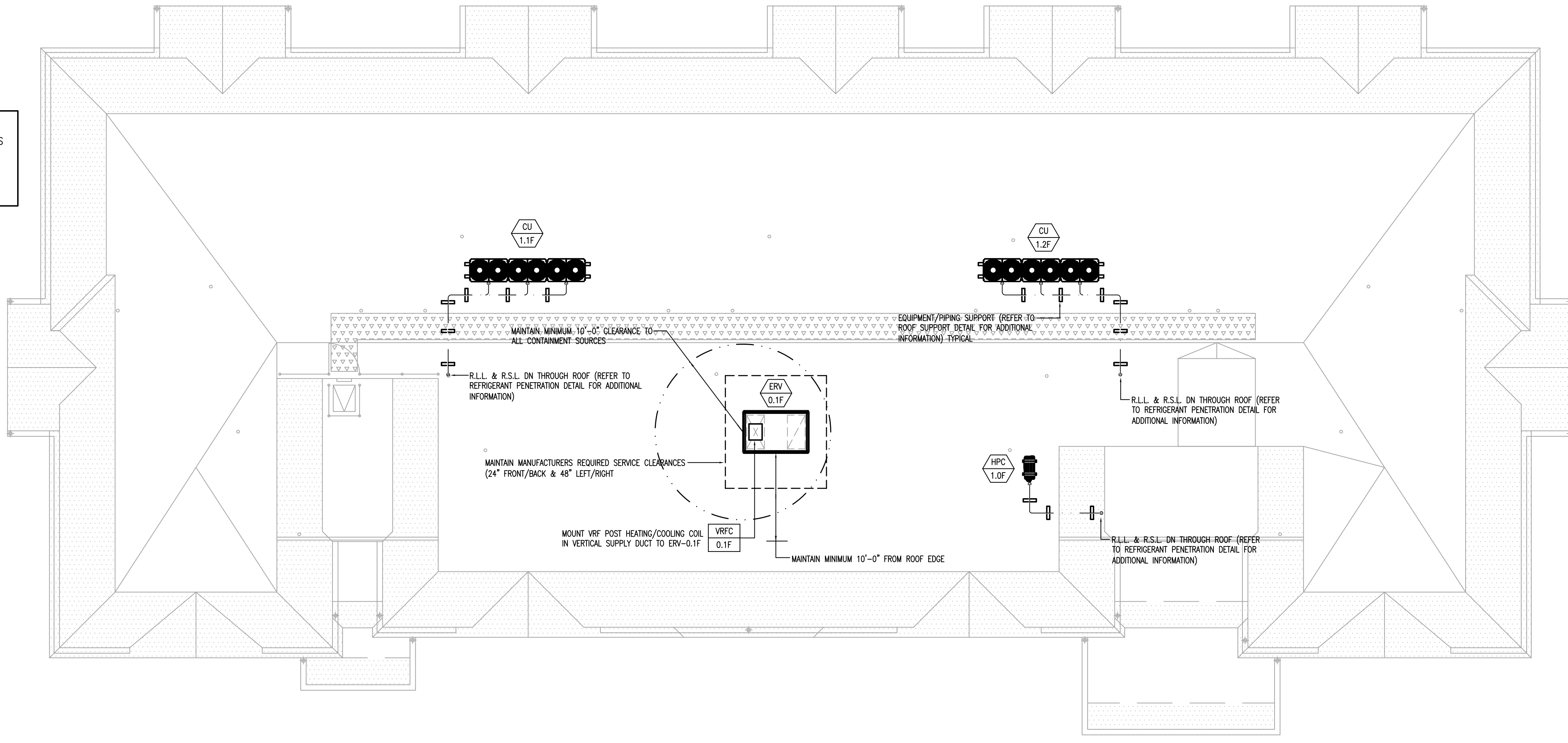
PROJECT # 1420  
DATE: 9/22/2020  
REVISED DATE:  
REVISED: 02/16/2021

**M2.4**

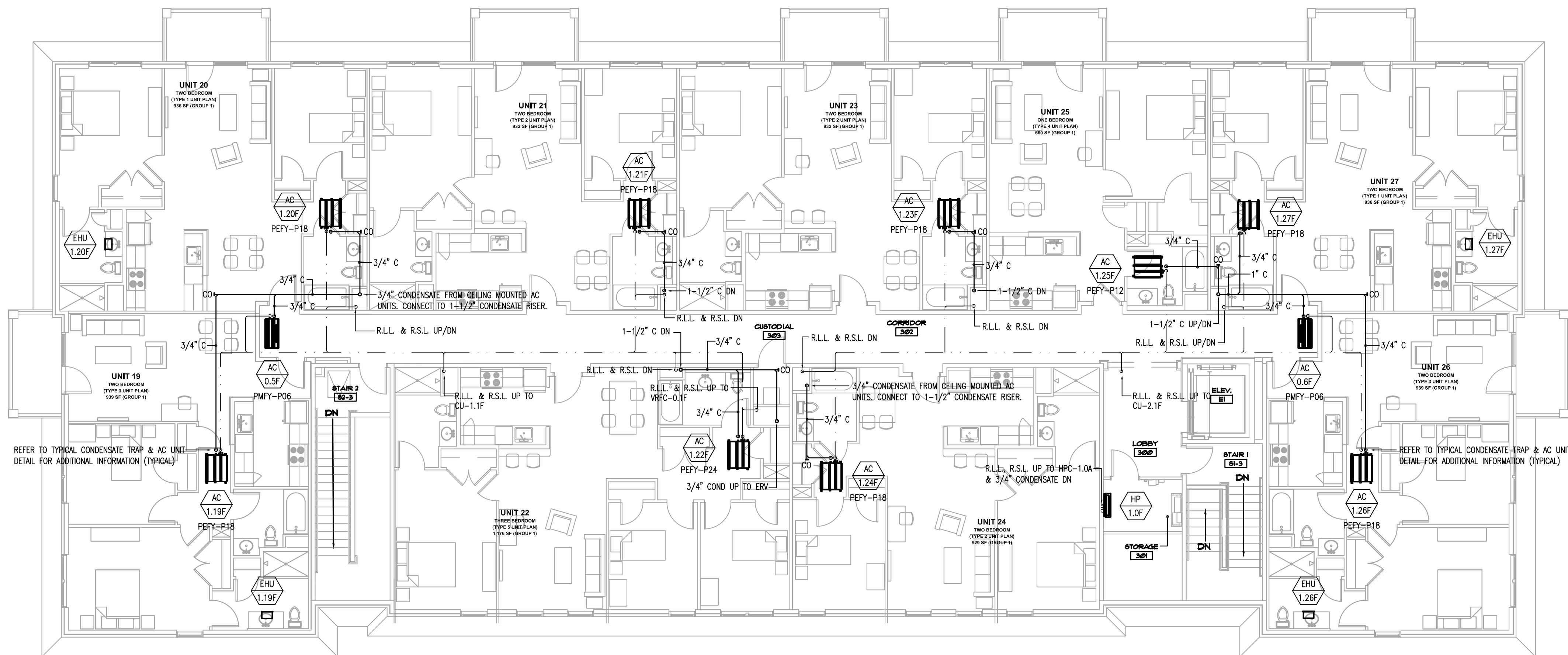
CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

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**2 MECHANICAL: BUILDING F, ROOF PLAN**  
SCALE: 1/8" = 1'-0"



**1 MECHANICAL: BUILDING F, THIRD FLOOR PLAN**  
SCALE: 1/8" = 1'-0"

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**SHEET CONTENTS:**  
MECHANICAL:  
TYPICAL UNIT  
PARTIAL PLANS

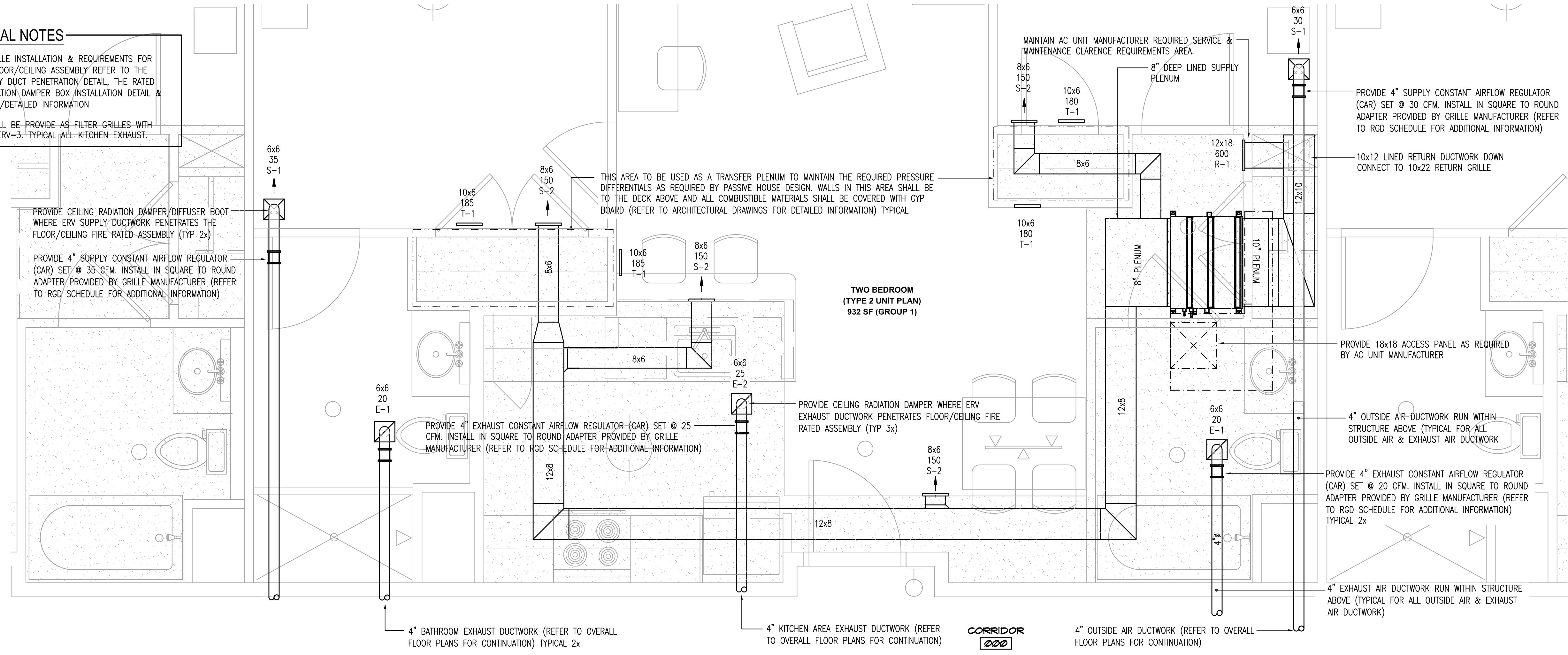
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DATE: 9/22/2020  
REVISED DATE:  
REVISED: 02/16/2021

**M3.0**

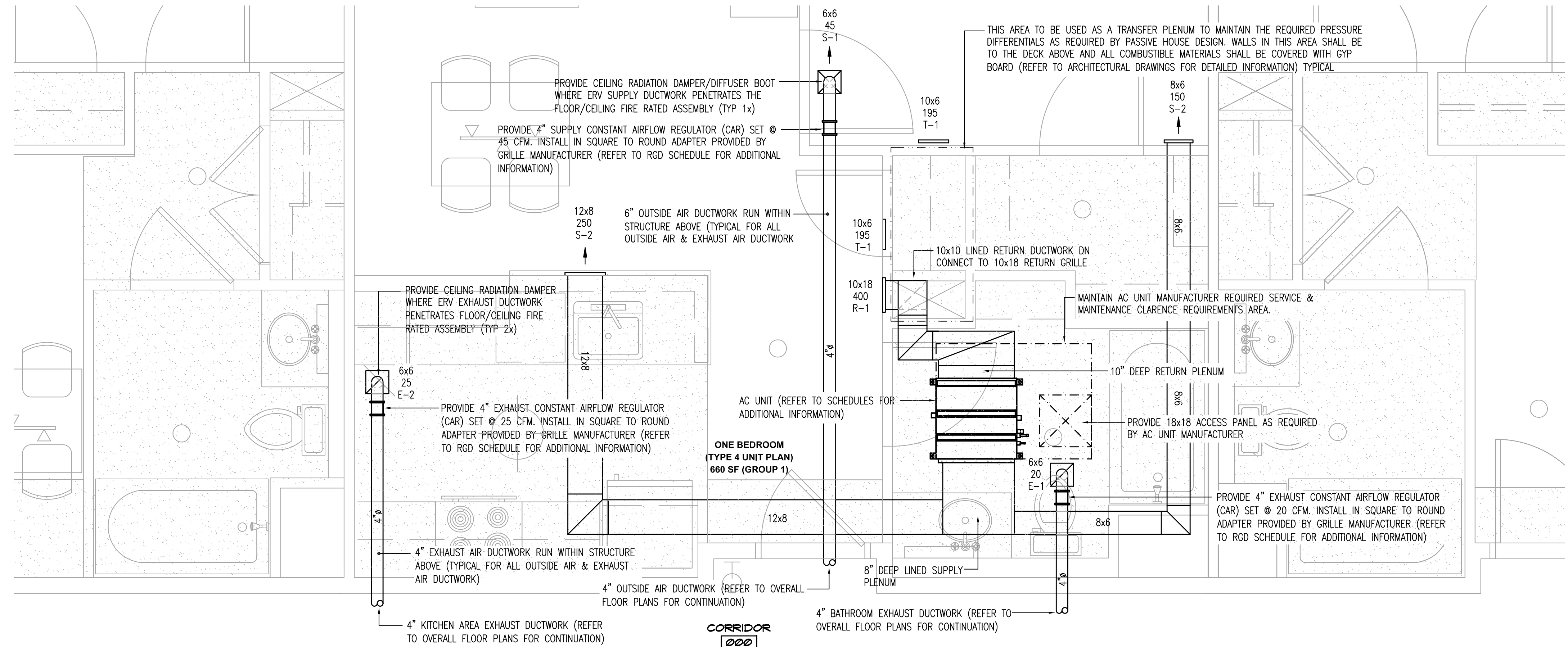
CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

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**2** MECHANICAL: TYPICAL 2 BEDROOM (TYPE 2) MECHANICAL PARTIAL PLAN  
M3.0 SCALE: 1/2"=1'-0"  
BUILDING "E" TYPICAL: UNIT 6,12,14,15,21,23,24,30,32,33  
BUILDING "F" TYPICAL: UNIT 6,12,14,15,21,23,24



**1** MECHANICAL: TYPICAL 1 BEDROOM (TYPE 4) MECHANICAL PARTIAL PLAN  
M3.0 SCALE: 1/2"=1'-0"  
BUILDING "E" TYPICAL: UNIT 3,5,7,16,25,34  
BUILDING "F" TYPICAL: UNIT 3,5,7,16,25

**GENERAL NOTES**

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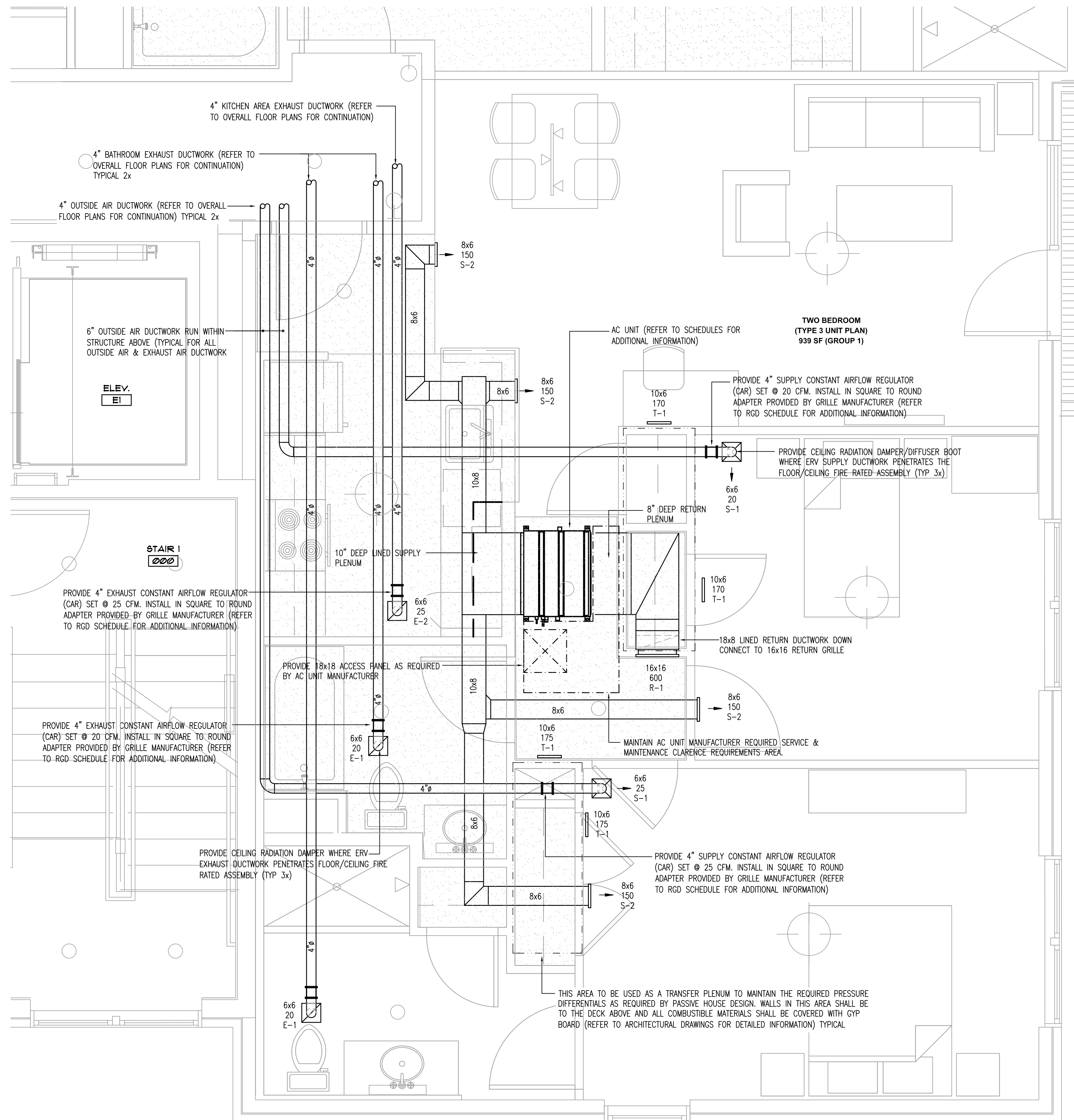
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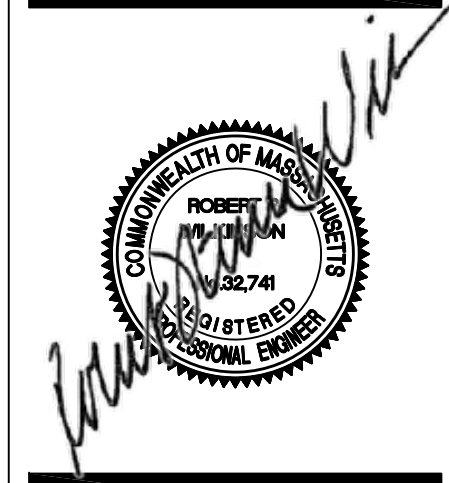


**1** MECHANICAL: TYPICAL 2 BEDROOM (TYPE 3) MECHANICAL PARTIAL PLAN  
 M3.1 SCALE: 1/2"=1'-0"

BUILDING "E" TYPICAL: UNIT 1,8,10,17,19,26,28,35  
 BUILDING "F" TYPICAL: UNIT 1,8,10,17,19,26

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SHEET CONTENTS:  
 MECHANICAL:  
 TYPICAL UNIT  
 PARTIAL  
 PLANS

PROJECT # 1420  
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 REVISED: 02/16/2021

**M3.1**

CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

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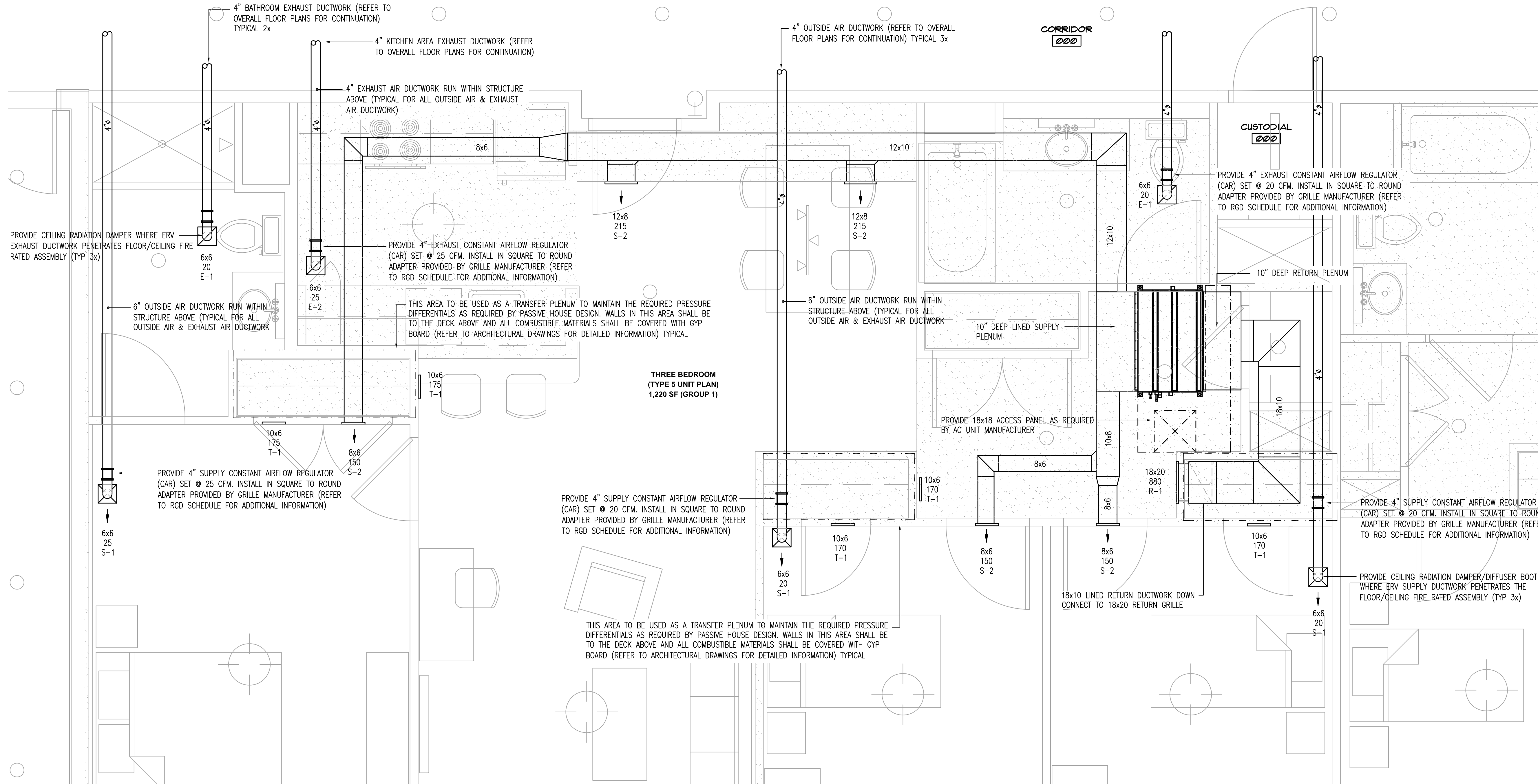
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**1** MECHANICAL: TYPICAL 3 BEDROOM (TYPE 5) MECHANICAL PARTIAL PLAN  
**M3.2** SCALE: 1/2"=1'-0"  
 BUILDING "E" TYPICAL: UNIT 13,22,31  
 BUILDING "F" TYPICAL: UNIT 13,22

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SHEET CONTENTS:  
 MECHANICAL:  
 TYPICAL UNIT  
 PARTIAL  
 PLANS

CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

PROJECT # 1420  
 DATE: 9/22/2020  
 REVISED DATE:  
 REVISED: 02/16/2021

**M3.2**



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- KITCHEN EXHAUST GRILLES SHALL BE PROVIDED AS FILTER GRILLES WITH FILTER RATED AT A MINIMUM MERV-3. TYPICAL ALL KITCHEN EXHAUST.



**GENERAL NOTES**

The drawings are generally diagrammatic and are intended to convey the scope of work and indicate general arrangement of equipment. The locations of all indicated items that are not fixed by dimension are approximate only.

Maintain maximum space conditions at all points. Where space conditions appear inadequate, notify the Architect before proceeding with the installation.

Coordinate the exact location of all materials with the work of other trades and with the existing conditions prior to installation.

All materials to be removed shall be removed from the project site in their entirety, including all hangers, supports and appurtenances.

The piping layout as indicated is schematic and diagrammatic in scope and is not intended to show all offsets which may be required. The exact pipe route shall be field coordinated.

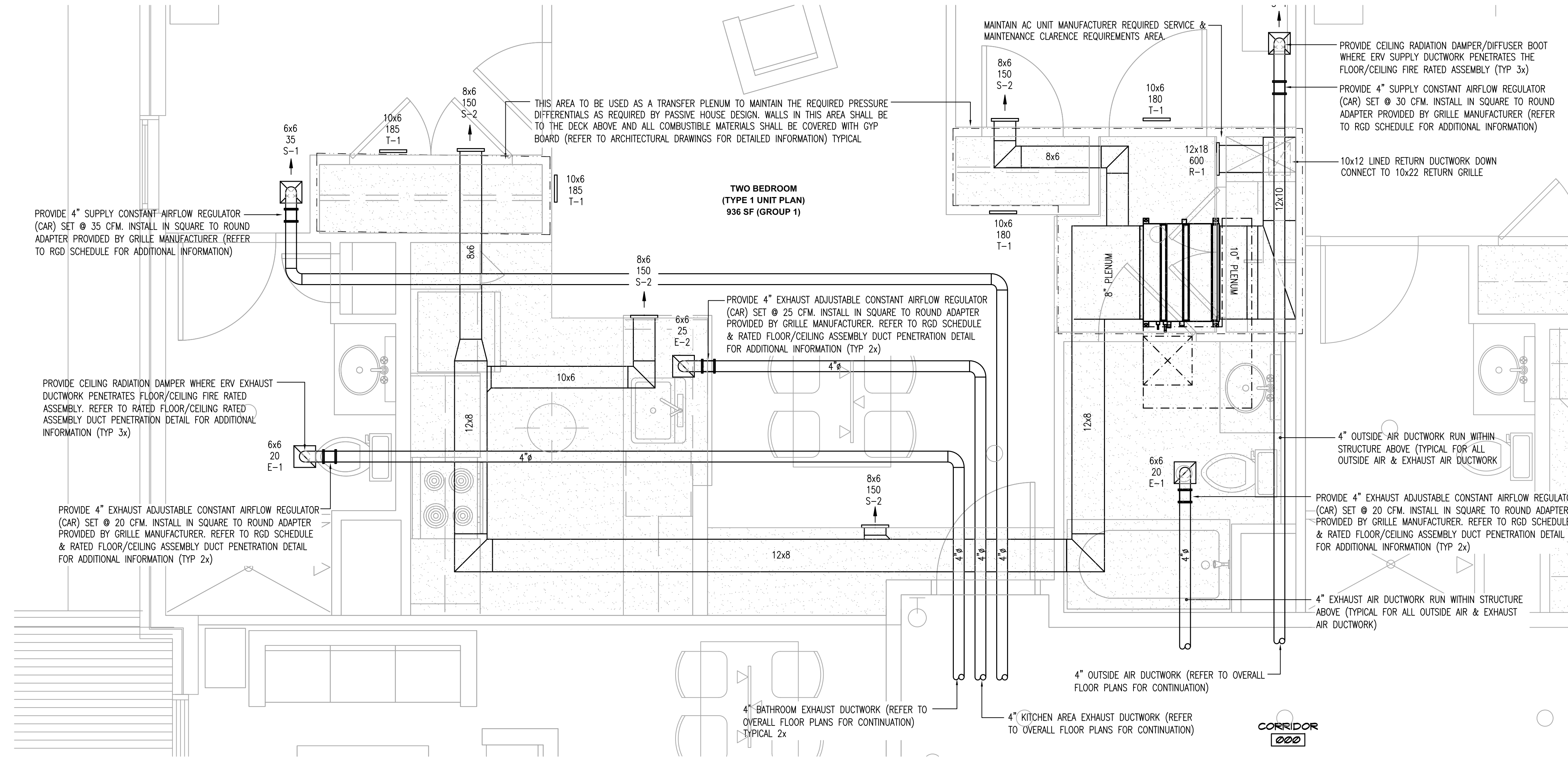
Refer to Architectural Reflected Ceiling Plans and Interior Elevations for the exact location of registers and diffusers.

All system shut-downs shall be with prior approval of the Architect and Owner. Interruptions to services shall be scheduled to minimize down time.

Refer to the PROJECT SPECIFICATION for additional requirements.

**INTERNATIONAL PASSIVE HOUSE STANDARDS COMPLIANCE:**

The systems for this project have been designed and specified to conform to the standards of the International Passive House Association. Special care should be taken with respect to the system, component and construction standards as noted on the drawings and as included in the project specification in order to ensure proper certification of the Project under the criteria of the International Passive House Association.



**1 MECHANICAL: TYPICAL 2 BEDROOM (TYPE 1) MECHANICAL PARTIAL PLAN**

**M3.3** SCALE: 1/2"=1'-0"

BUILDING "E" TYPICAL: UNIT 2,9,11,18,20,27,29,36  
 BUILDING "F" TYPICAL: UNIT 2,9,11,18,20,27

**Ed Wojcik**  
 architect, ltd  
 One Richmond Square  
 Providence, RI 02906  
 401-861-7139

Proposed Design for:  
**Woodland Cove**  
**Phase 1**  
 Buildings E, F, & COMMUNITY BUILDING  
 3102 Cranberry Highway  
 Wareham, MA 02552



SHEET CONTENTS:  
 MECHANICAL:  
 TYPICAL UNIT  
 PARTIAL  
 PLANS

PROJECT # 1420  
 DATE: 9/22/2020  
 REVISED DATE:  
 REVISED: 02/16/2021

**M3.3**

CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

**GENERAL NOTES**

- FOR ERV SUPPLY/EXHAUST GRILLE INSTALLATION & REQUIREMENTS FOR PENETRATION OF THE RATED FLOOR/CEILING ASSEMBLY REFER TO THE RATED FLOOR/CEILING ASSEMBLY DUCT PENETRATION DETAIL, THE RATED FLOOR/CEILING ASSEMBLY RADIATION DAMPER BOX INSTALLATION DETAIL & RGD SCHEDULE FOR ADDITIONAL/DETAILED INFORMATION
- KITCHEN EXHAUST GRILLES SHALL BE PROVIDED AS FILTER GRILLES WITH FILTER RATED AT A MINIMUM MERV-3. TYPICAL ALL KITCHEN EXHAUST.



**GENERAL NOTES**

The drawings are generally diagrammatic and are intended to convey the scope of work and indicate general arrangement of equipment. The locations of all indicated items that are not fixed by dimension are approximate only.

Maintain maximum space conditions at all points. Where space conditions appear inadequate, notify the Architect before proceeding with the installation.

Coordinate the exact location of all materials with the work of other trades and with the existing conditions prior to installation.

All materials to be removed shall be removed from the project site in their entirety, including all hangers, supports and appurtenances.

The piping layout as indicated is schematic and diagrammatic in scope and is not intended to show all offsets which may be required. The exact pipe route shall be field coordinated.

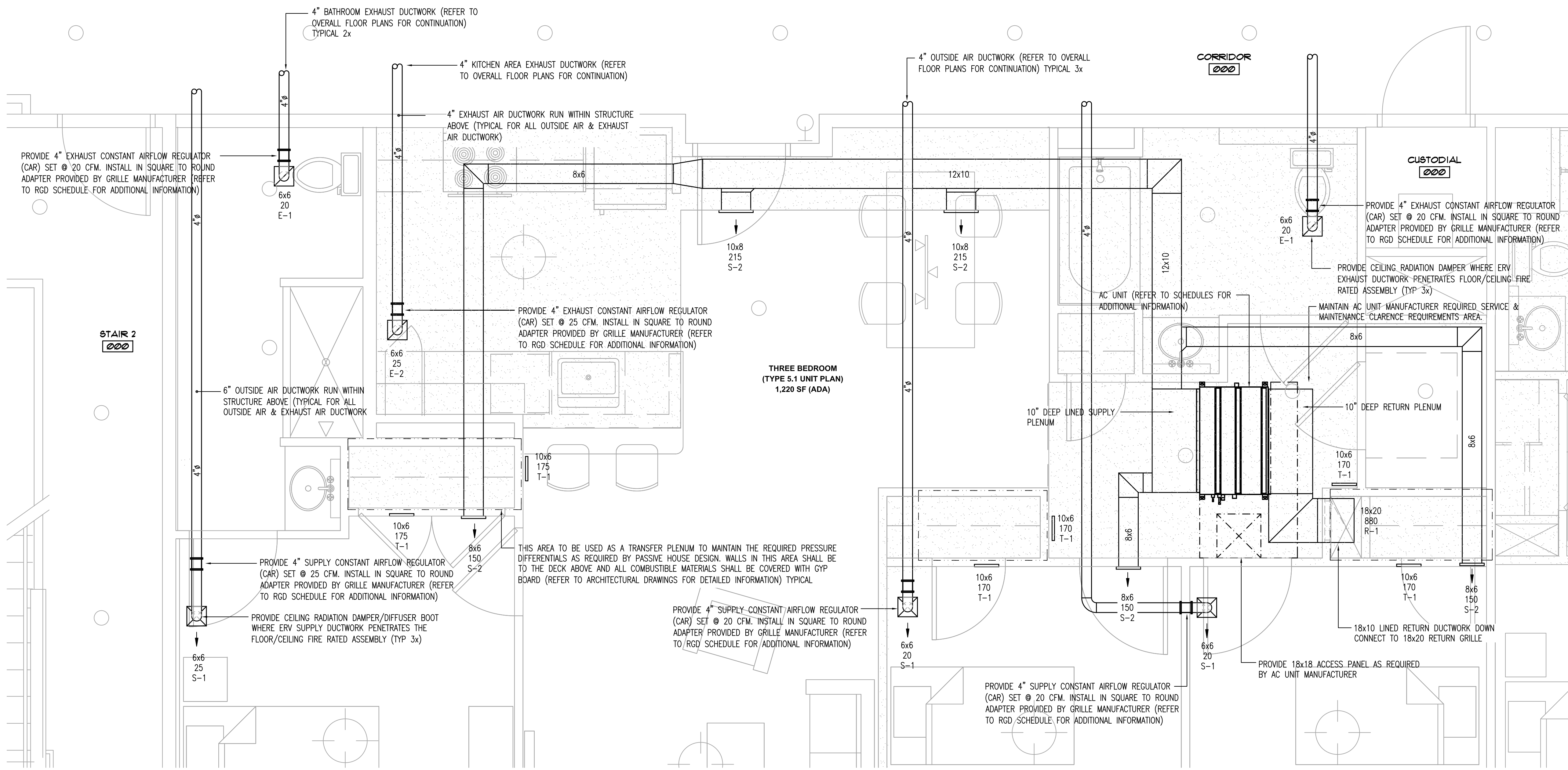
Refer to Architectural Reflected Ceiling Plans and Interior Elevations for the exact location of registers and diffusers.

All system shut-downs shall be with prior approval of the Architect and Owner. Interruptions to services shall be scheduled to minimize down time.

Refer to the PROJECT SPECIFICATION for additional requirements.

**INTERNATIONAL PASSIVE HOUSE DESIGN AND CONSTRUCTION STANDARDS COMPLIANCE:**

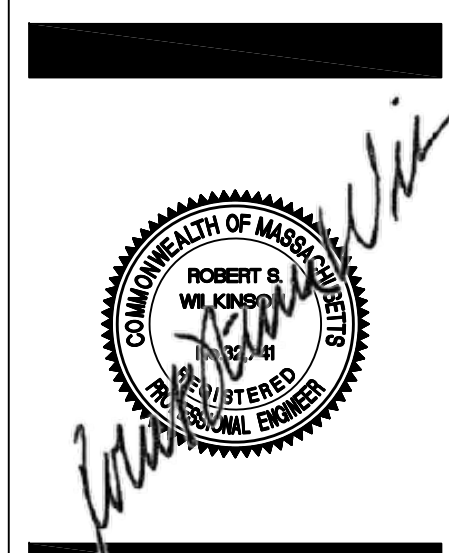
The systems for this project have been designed and specified to conform to the standards of the International Passive House Association. Special care should be taken with respect to the system, component and construction standards as noted on the drawings and as included in the project specification in order to ensure proper certification of the Project under the criteria of the International Passive House Association.



**1** MECHANICAL: TYPICAL 3 BEDROOM (TYPE 5.1) MECHANICAL PARTIAL PLAN  
**M3.4** SCALE: 1/2"=1'-0"  
 BUILDING "E" TYPICAL: UNIT 4  
 BUILDING "F" TYPICAL: UNIT 4

**Ed Wojcik**  
 architect, ltd  
 One Richmond Square  
 Providence, RI 02906  
 401-861-7139

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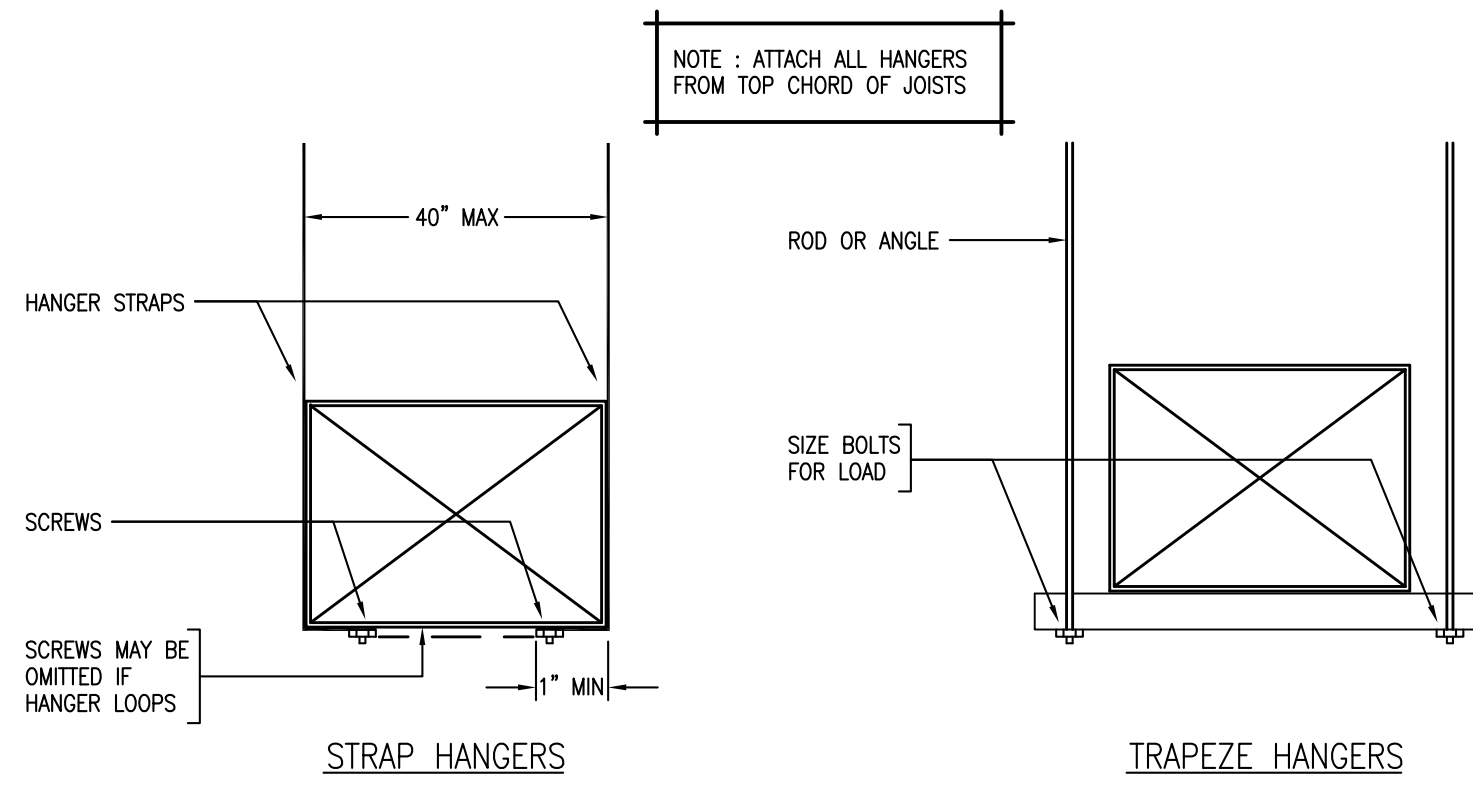


SHEET CONTENTS:  
 MECHANICAL:  
 TYPICAL UNIT  
 PARTIAL  
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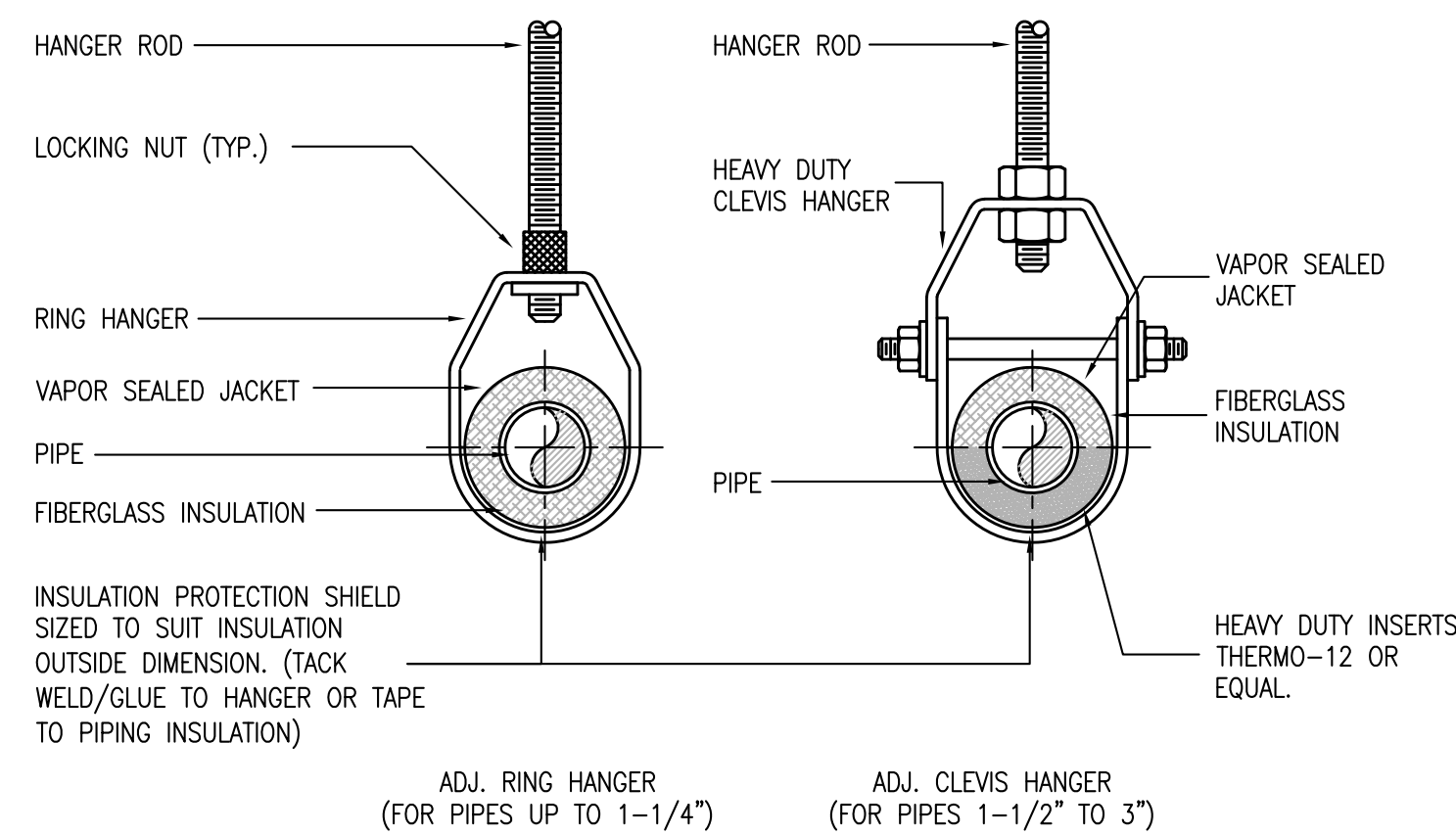
PROJECT # 1420  
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 REVISION: 02/16/2021

**M3.4**



**1** TYPICAL DUCT HANGER DETAIL

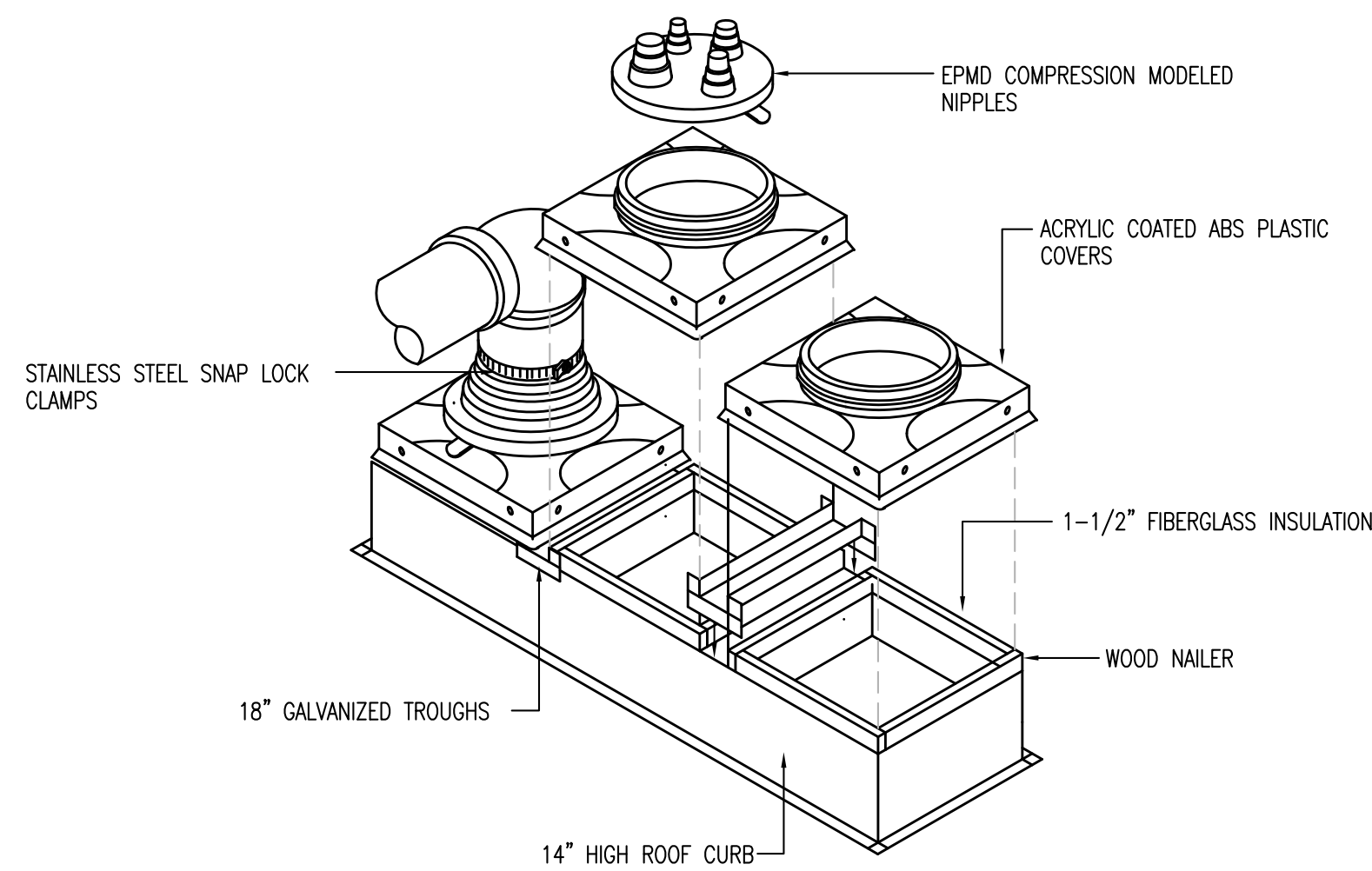
M5.0 SCALE: NONE



HANGER ROD SCHEDULE			
PIPE SIZE	ROD SIZE	PIPE SIZE	ROD SIZE
UP TO 2"	3/8"	6" - 8"	3/4"
2-1/2" - 3"	1/2"	8" - 10"	7/8"
4" - 5"	5/8"	12" - 14"	1"

**4** TYPICAL PIPE HANGER DETAILS: INSULATED PIPING

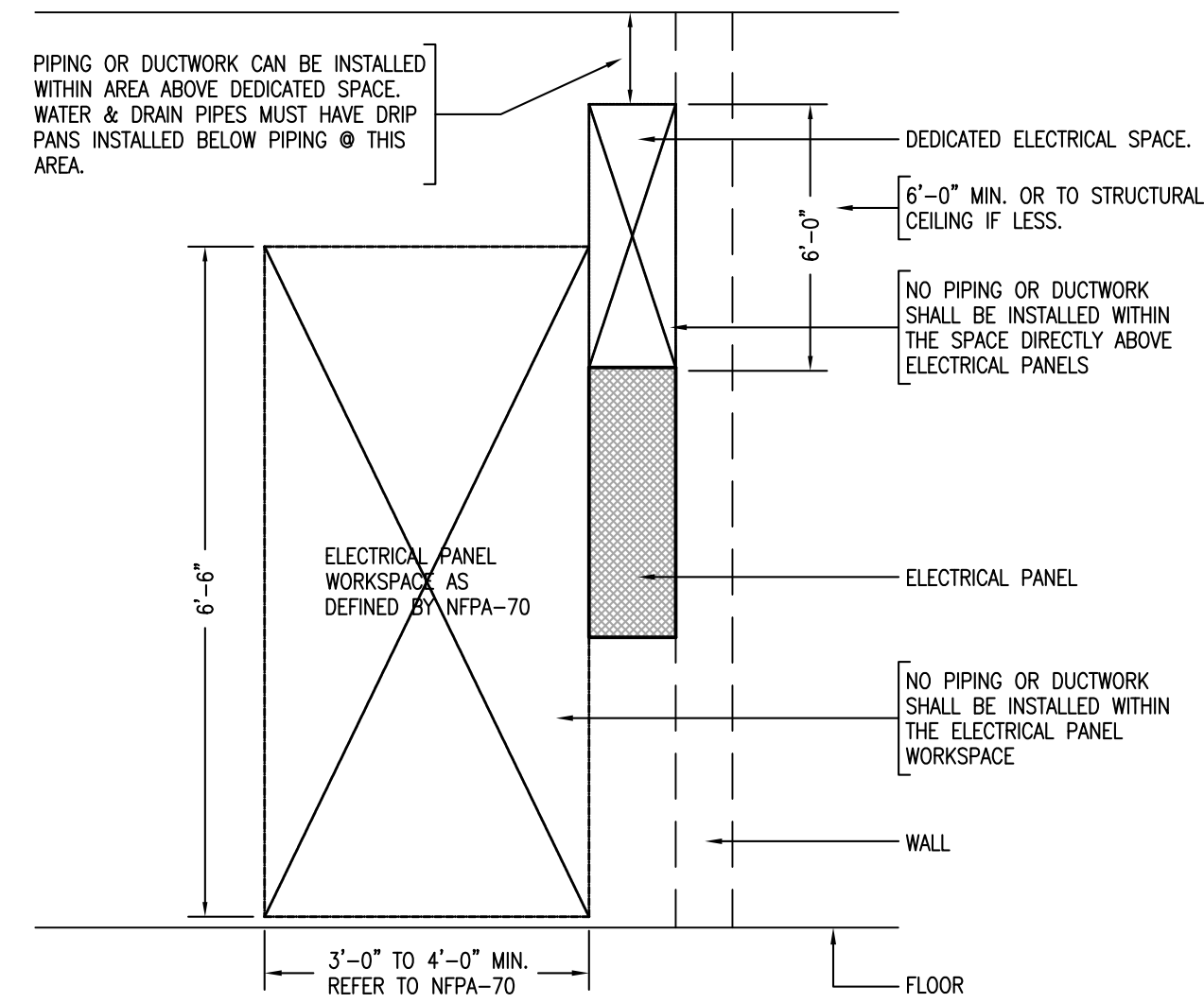
M5.0 SCALE: NONE



**NOTES**  
PIPE PORTAL MULTI-OPENING ASSEMBLY SHALL BE MANUFACTURED BY "ROOF PRODUCTS & SYSTEMS" OR ENGINEER APPROVED EQUAL.

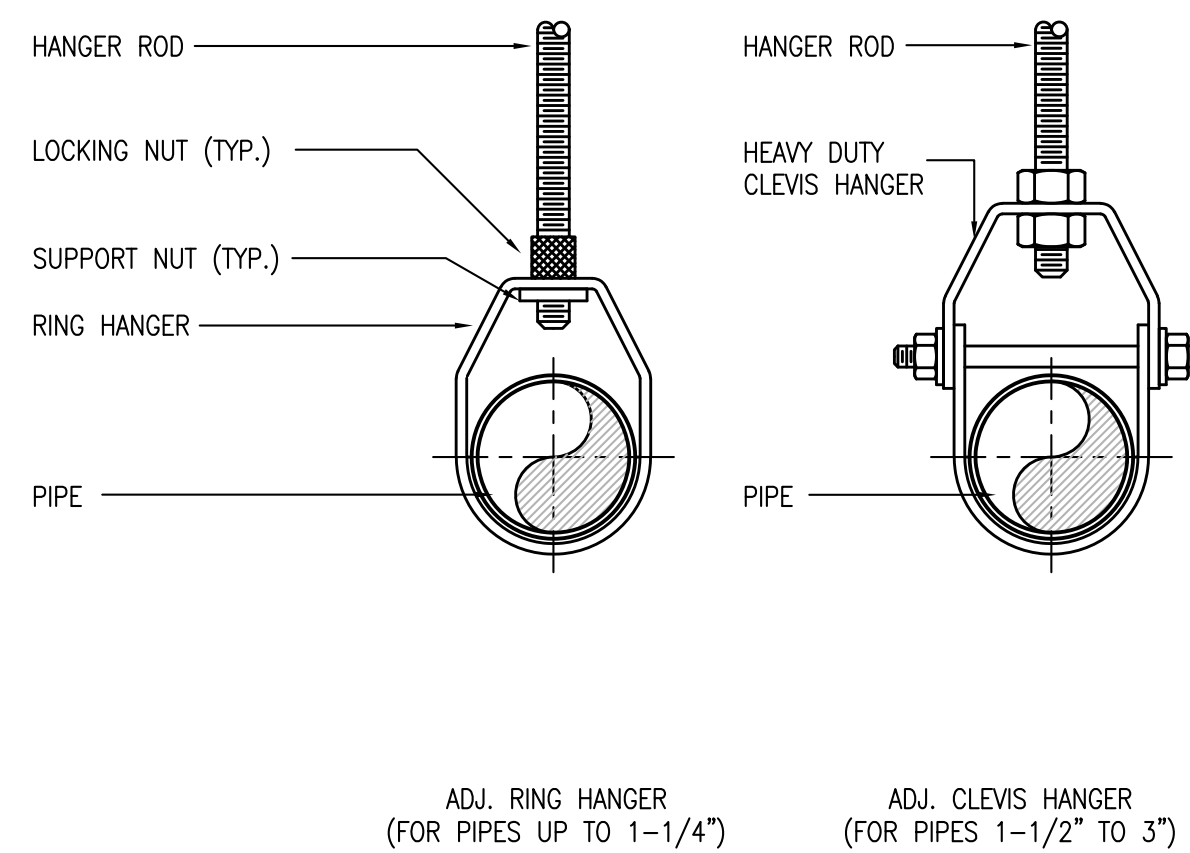
**7** TYPICAL ROOF PIPING PENETRATION DETAIL

M5.0 SCALE: NONE



**2** ELECTRICAL SYSTEMS COORD. DETAIL

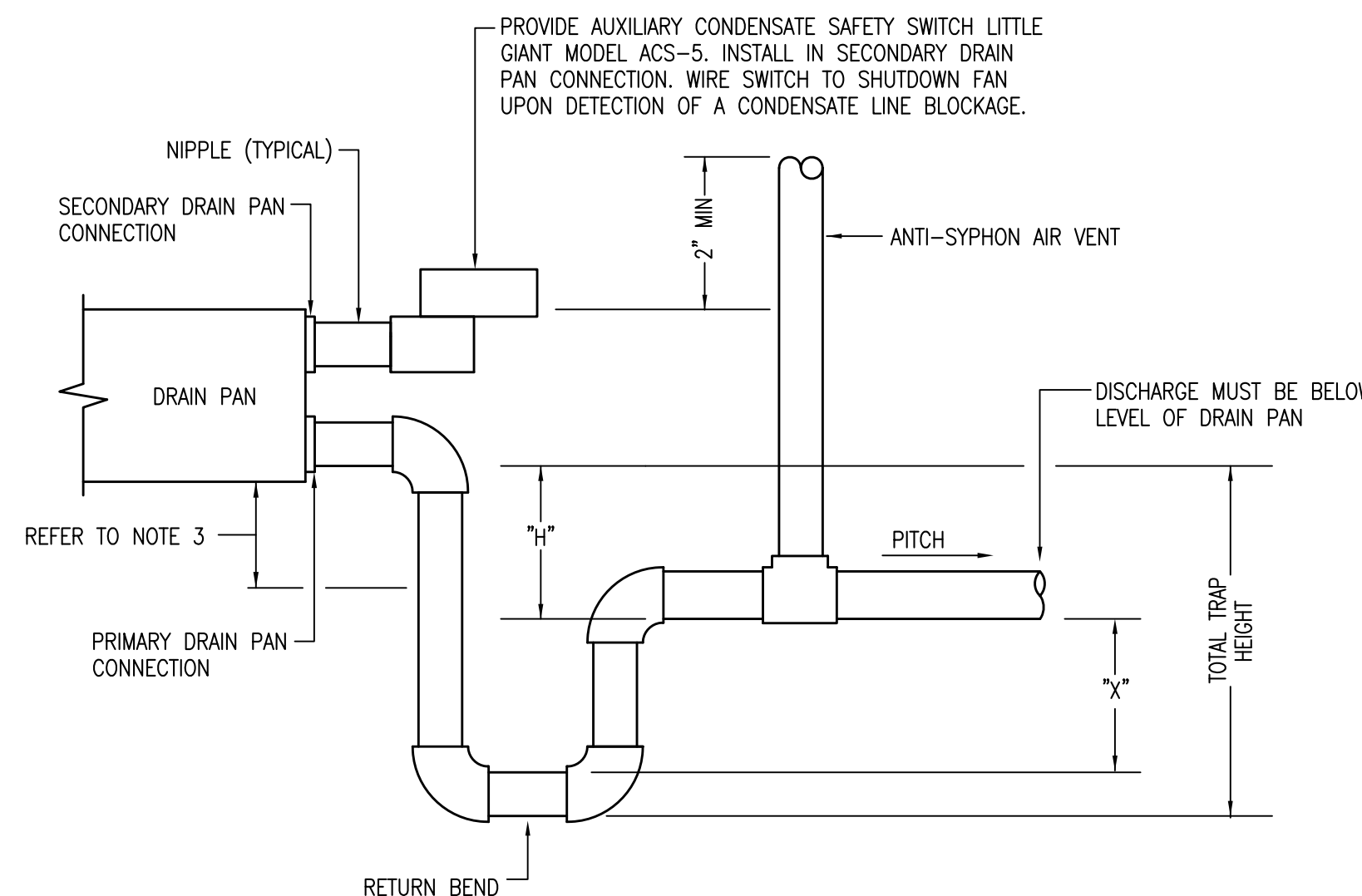
M5.0 SCALE: NONE



HANGER ROD SCHEDULE			
PIPE SIZE	ROD SIZE	PIPE SIZE	ROD SIZE
UP TO 2"	3/8"	6" - 8"	3/4"
2-1/2" - 3"	1/2"	8" - 10"	7/8"
4" - 5"	5/8"	12" - 14"	1"

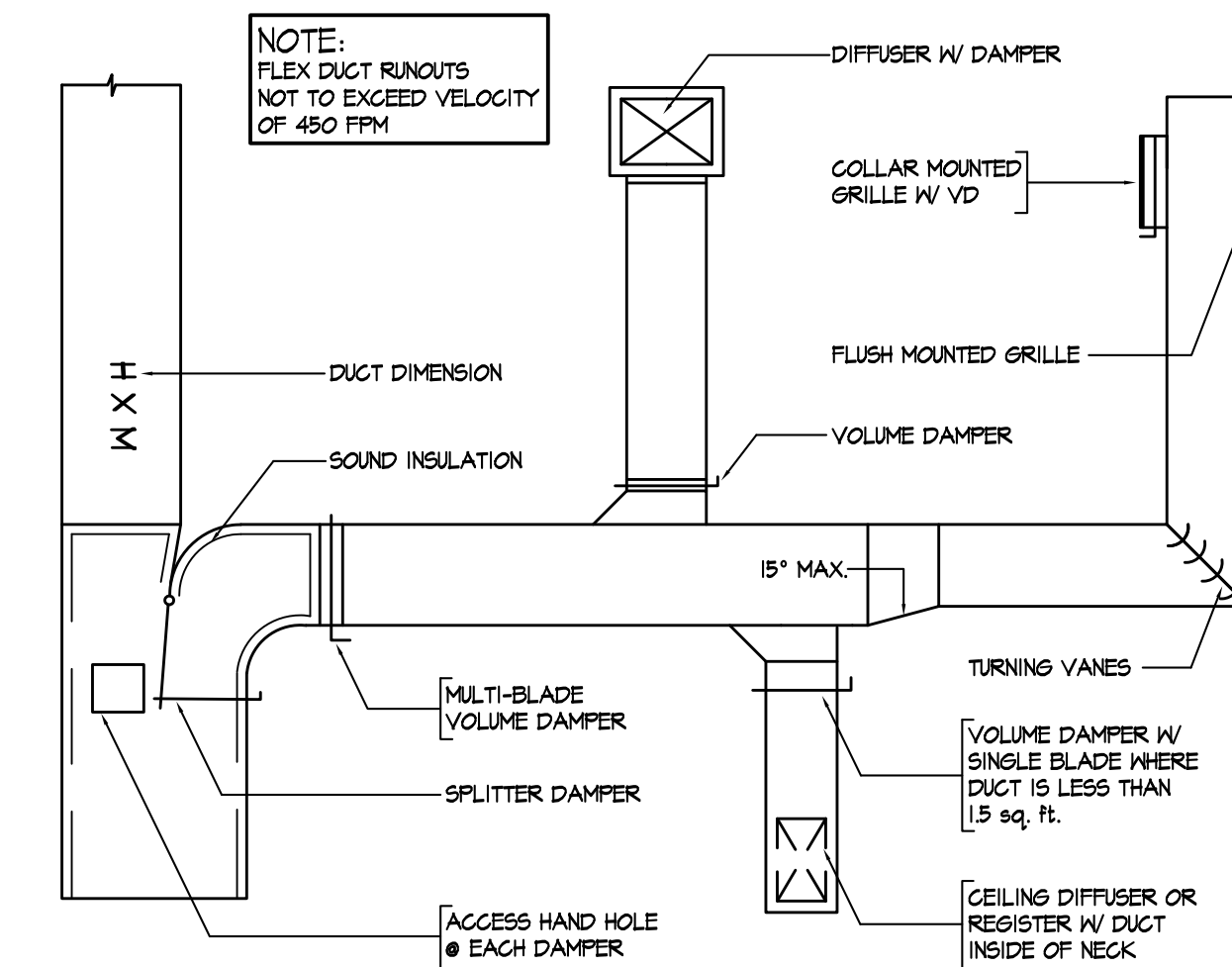
**5** TYPICAL PIPE HANGER DETAILS: UNINSULATED PIPING

M5.0 SCALE: NONE



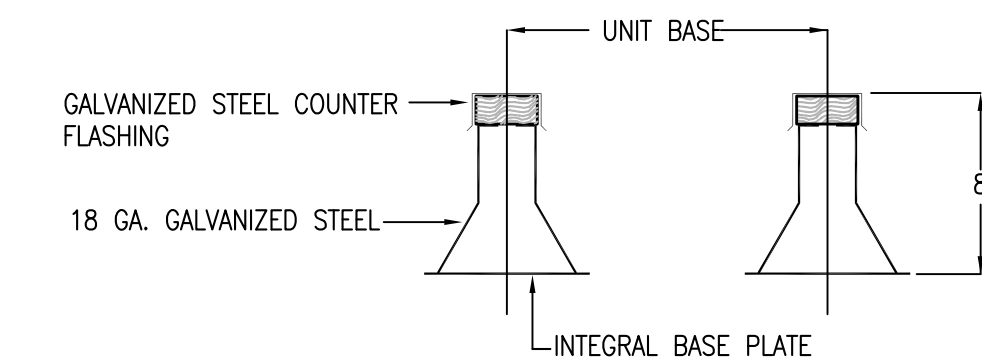
**8** CONDENSATE PIPING TRAP DETAIL

M5.0 SCALE: NONE



**3** TYPICAL DUCT DETAIL

M5.0 SCALE: NONE



**NOTES**  
DUCT MOUNTING PEDESTAL AND EQUIPMENT RAIL ASSEMBLY AS MANUFACTURED BY "ROOF PRODUCTS & SYSTEMS" OR APPROVED EQUAL.

**6** EQUIPMENT RAIL DETAIL

M5.0 SCALE: NONE

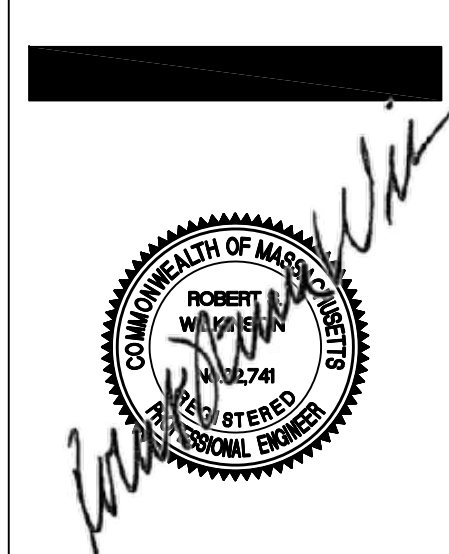
**NOTES**

- POSITIVE STATIC PRESSURE:  
X= AT LEAST 1" + CASING STATIC PRESSURE  
H= AT LEAST 1"  
TOTAL TRAP HEIGHT = X + H (1i x PIPE DIAMETER) WITHOUT INSULATION
- NEGATIVE STATIC PRESSURE:  
X= i "H"  
H= AT LEAST 1" + CASING STATIC PRESSURE  
TOTAL TRAP HEIGHT = X + H + (1i x PIPE DIAMETER) WITHOUT INSULATION
- 1" MIN. DROP REQUIRED, USE OF STANDARD FITTINGS SHOWN EXCEEDS THIS MINIMUM.
- ALLOW SUFFICIENT SPACE BELOW DRAIN PAN FOR TRAP PITCH DRAIN FOR PROPER RUN-OFF.
- MANUALLY, PRIME FILL TRAP BEFORE START-UP TO FORM INITIAL DRAIN SEAL.
- SUPPORT LENGTHY DRAIN LINES TO PREVENT SAG AND CONDENSATE OVERFLOW

CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

**Ed Wojcik**  
architect, ltd  
One Richmond Square  
Providence, RI 02906  
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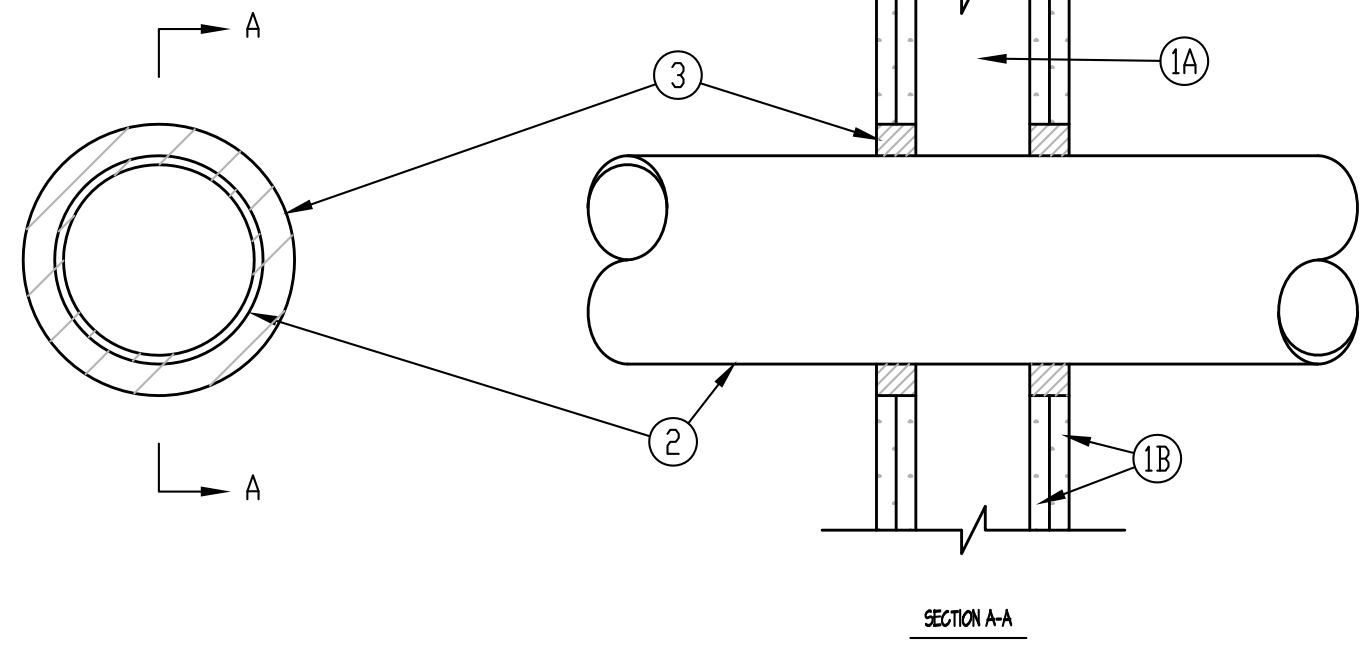


SHEET CONTENTS:  
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DETAILS

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REVISED: 02/16/2021

**M5.0**

System No. H1-054  
 F Ratings - 1 and 2 Hr (See Items 1 and 5)  
 T Rating - 0 Hr  
 L Rating: As Aired - Less Than 4 GPM/ft Ft  
 L Rating At 400 F - 4 GPM/ft Ft

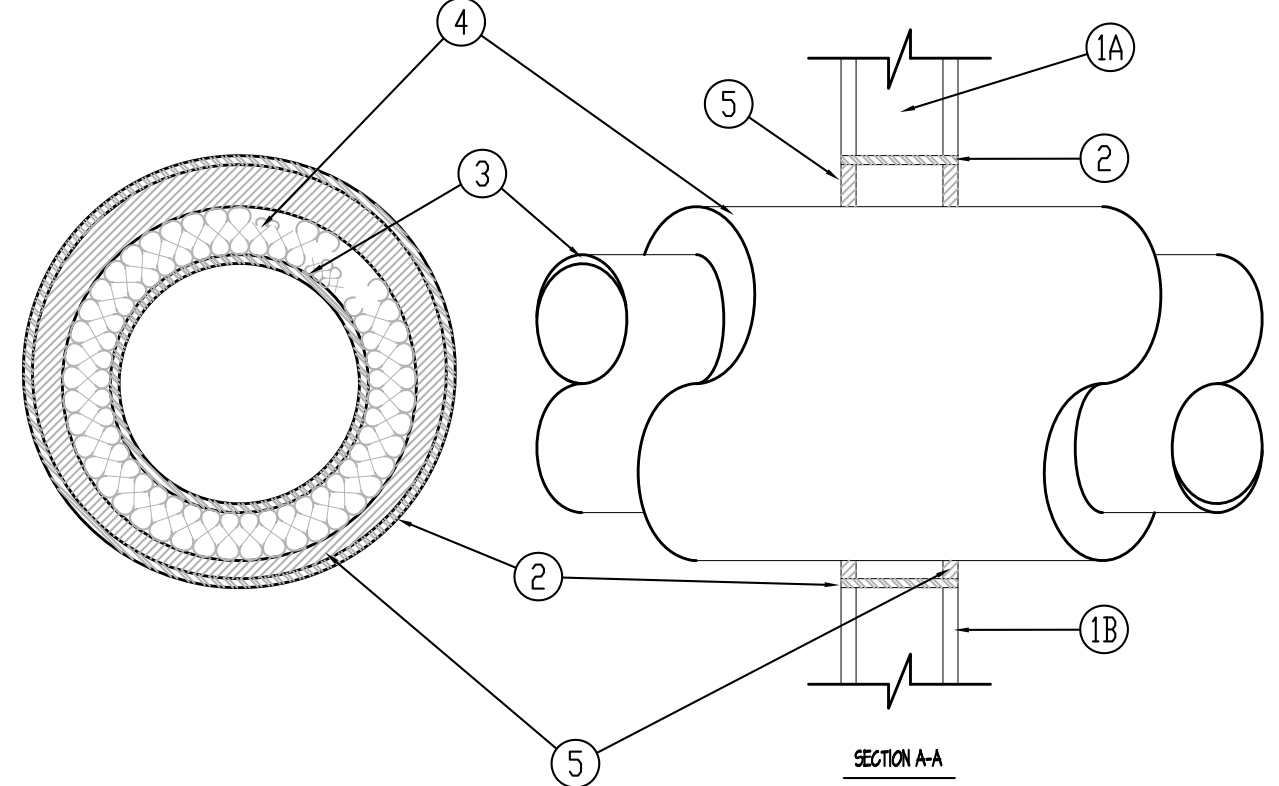


- Hall Assembly** - The 1 or 2 hr fire-rated gypsum wallboard/steel wall assembly shall be constructed of the materials and in the manner specified in the individual U500 or U400 Series Hall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
  - Studs** - Wall framing may 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. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 in. in. wider and 4 to 6 in. higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening a 2 to 5 in. clearance is present between the penetrating item and the framing on all four sides.
  - Gypsum Board** - 5/8 in. thick, 4 ft wide with square or lapped edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U500 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 32-1/4 in. for steel stud walls. Max diam of opening is 14-1/2 in. for wood stud walls. The F Rating of the Prestop system is equal to the fire rating of the wall assembly.
- Through-Penetrants** - One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the Prestop system. The annular space shall be min 0 in. to max 2-1/4 in. Pipe may be installed with continuous point contact. Pipe, conduit or tubing may be installed at an angle not greater than 45 degrees from perpendicular. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
  - Steel Pipe** - Nom 5/8 in. diam (or smaller) Schedule 40 (or heavier) steel pipe.
  - Iron Pipe** - Nom 3/4 in. diam (or smaller) cast or ductile iron pipe.
  - Conduit** - Nom 4 in. diam (or smaller) steel electrical metallic tubing or 6 in. diam steel conduit.
  - Copper Tubing** - Nom 5/8 in. diam (or smaller) Type L (or heavier) copper tubing.
  - Copper Pipe** - Nom 6 in. diam (or smaller) regular (or heavier) copper pipe.
- Fill, Void or Condy Material** - Sealant - Min 5/8 in. thickness of fill material applied within the annular, flush with both surfaces of wall. At the point or continuous contact locations between pipe and wall, a min 1/2 in. diam bead of fill material shall be applied at the pipe wall interface on both surfaces of wall.
 

HILTI CONSTRUCTION CHEMICALS, DIV OF  
 HILTI INC - FS-One Sealant  
 \*Bearing the UL Classification Mark

**1** DETAIL @ UNINSULATED METAL PIPE PENETRATION OF GYPSUM  
 M5.1 SCALE: NONE  
 (BASED ON HILTI #W-L-1054)

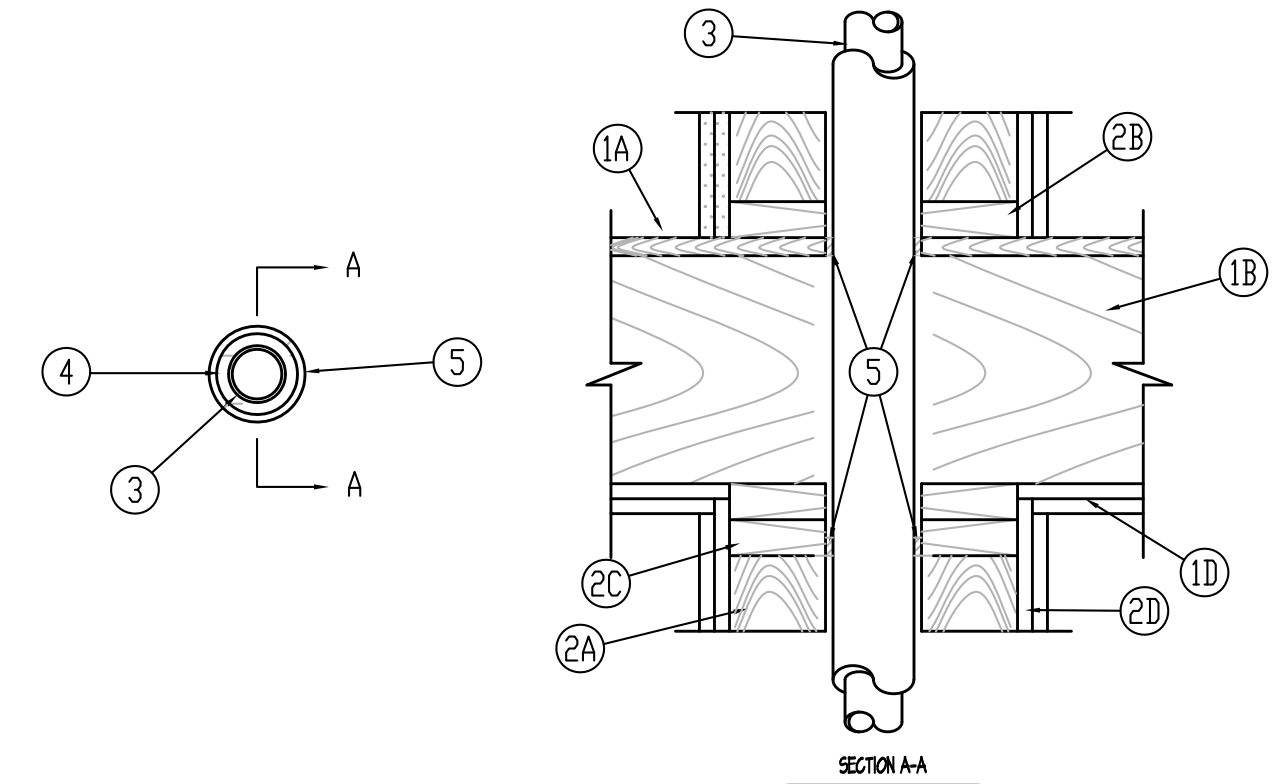
System No. H1-5096  
 F Ratings - 1 and 2 Hr (See Item 1, 5 and 5)  
 T Rating - 0 Hr  
 L Rating - 0 Hr and 1 Hr (See Items 1, 5 and 5)



- Hall Assembly** - The 1 or 2 hr fire-rated wallboard/steel wall assembly shall be constructed of the materials and in the manner specified in the individual U500 or U400 Series Hall 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 lapped edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U500 or U400 Series Design in the Fire Resistance Directory. Max diam of opening is 14-1/2 in. for wood stud walls. Max diam of opening is 10 in. for steel stud walls. The hourly F and T Ratings of the Prestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
- Steel Sleeve (Optional)** - Max 10 in. diam Schedule 40 (or heavier) steel pipe sleeve installed in nom 10 in. diam circular opening core drilled through wall. Length of steel sleeve to be equal to thickness of wall.
- Through Penetrant** - One metallic pipe or tubing installed concentrically or eccentrically within the Prestop system. Pipe or tube to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes or tube may be used:
  - Steel Pipe** - Nom 1/2 in. diam (or smaller) Schedule 40 (or heavier) steel pipe. When steel pipe is used, T Rating is 1/2 and 1 hr when installed in 1 and 2 hr rated walls, respectively.
  - Copper Tube** - Nom 4 in. diam (or smaller) Type L (or heavier) copper tube. When copper tube is used, T Rating is 1/2 hr.
  - Copper Pipe** - Nom 4 in. diam (or smaller) Regular (or heavier) copper pipe. When copper pipe is used, T Rating is 1/2 hr.

**2** DETAIL @ INSULATED METAL PIPE PENETRATION OF GYPSUM  
 M5.1 SCALE: NONE  
 (BASED ON HILTI #W-L-5096)

System No. F-C-5004  
 F Ratings - 1 and 2 Hr (See Item 1)  
 T Ratings - 1 and 2 Hr (See Item 1)  
 L Rating: As Aired - 4 GPM/ft Ft (See Item 4)  
 L Rating At 400 F - Less Than 4 GPM/ft Ft (See Item 4)

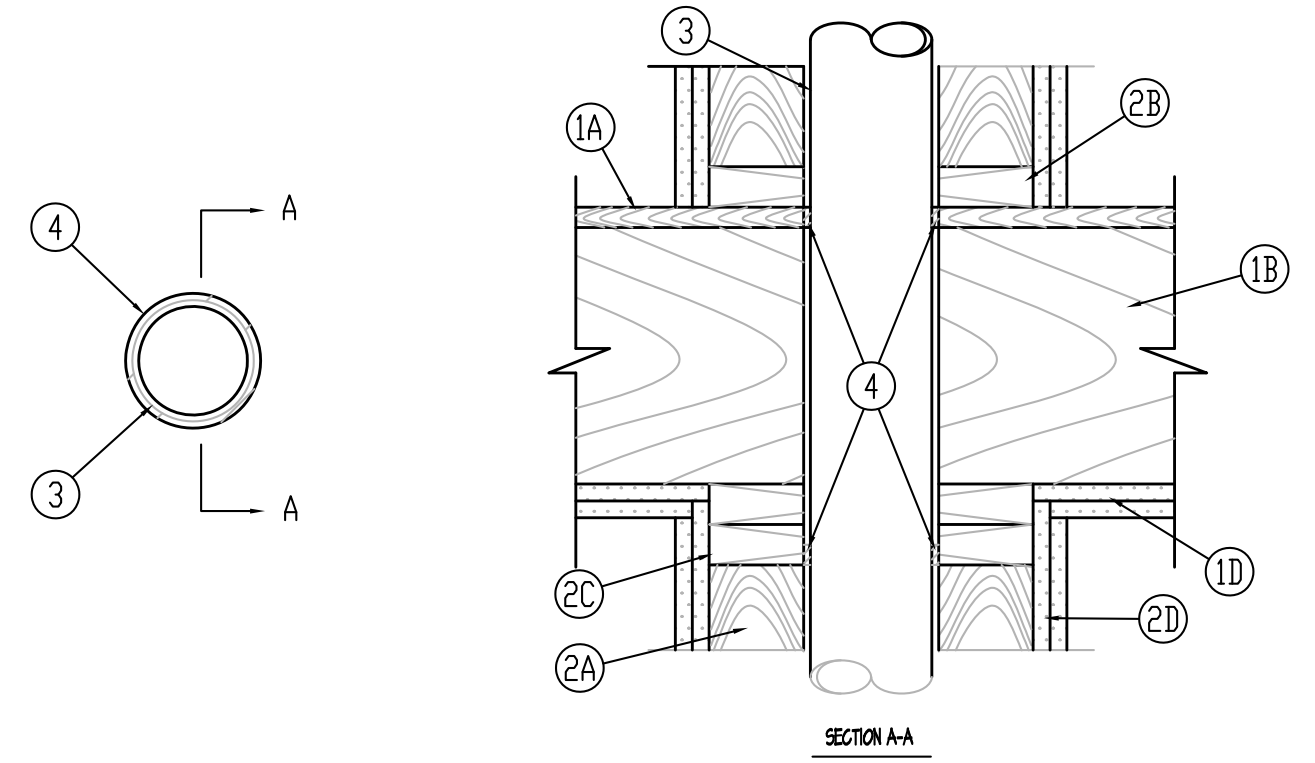


- Floor-Ceiling Assembly** - The 1 or 2 hr fire-rated solid or trussed lumber joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in the individual L500 Series Floor-Ceiling Designs in the UL Fire Resistance Directory. The F Rating of the Prestop system is equal to the rating of the floor-ceiling and wall assemblies. The general construction features of the floor-ceiling assembly are summarized below:
  - Flooring System** - Lumber or plywood subfloor with finish floor of lumber, plywood or Floor Topping Material as specified in the individual Floor-Ceiling Design. Max diam of floor opening is 4 in.
  - Wood 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 Prestopped.
  - Furring Channels** - (Not Show) - (As required) Resilient galvanized steel herring installed in accordance with the manner specified in the individual L500 Series Designs in the Fire Resistance Directory.
  - Gypsum Board** - Thickness, type, number of layers and fasteners shall be as specified in the individual Floor-Ceiling Design.
- Chase Wall** - The through penetrant (Item 3) shall be routed through a 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 U500 Series Hall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
  - Studs** - Nom 2 by 6 in. or double nom 2 by 4 in. lumber studs.
  - Soled Plats** - Nom 2 by 6 in. or parallel 2 by 4 in. lumber plates, lightly batted.
  - Top Plats** - The double top plate shall consist of two nom 2 by 6 in. or two sets of parallel 2 by 4 in. lumber plates, lightly batted. Max diam of opening is 4 in.
  - Gypsum Board** - Thickness, type, number of layers and fasteners shall be as specified in the individual Hall and Partition Design.
- Through Penetrants** - One metallic pipe or tubing to be installed within the Prestop system. Pipe or tubing to be rigidly supported on both sides of floor assembly. The following types and sizes of metallic pipes or tubing may be used:
  - Steel Pipe** - Nom 2 in. diam (or smaller) Schedule 40 (or heavier) steel pipe.
  - Copper Tubing** - Nom 2 in. diam (or smaller) Type L (or heavier) copper tubing.
  - Copper Pipe** - Nom 2 in. diam (or smaller) Regular (or heavier) copper pipe.
- Pipe Covering** - Nom 1/2 in. thick hollow cylindrical heavy density (min 35 pcf) glass fiber walls jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tapes. Transverse joints secured with metal fasteners or with built tape supplied with the product. A non annular space of 1/8 in. is required within the Prestop system. See Pipe and Equipment Covering Materials (EPGM) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.
  - Tube Insulation - Plastico** - Nom 3/4 in. thick arylonitrile butadiene/polyvinyl chloride (ABPVC) flexible foam finished in the form of tubing. An annular space of min 1/8 in. to max 3/8 in. is required within the Prestop system. See Plastico (EPFZ) category in the Plastics 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-V0 may be used. (Note: L Ratings apply only when glass fiber insulation is used.)
- Fill, Void or Condy Material** - Sealant - Min 5/8 in. thickness of fill material applied within the annular, flush with top surface of floor. A generous bead of fill material also applied within the annular of the top plate, flush with bottom surface of lower top plate.
 

HILTI CONSTRUCTION CHEMICALS, DIV OF  
 HILTI INC - FS-One Sealant  
 \*Bearing the UL Classification Mark

**3** DETAIL @ INSULATED ARMAFLEX PENETRATION OF WOOD FLOOR (INSIDE CHASE) (BASED ON HILTI #F-C-5004)  
 M5.1 SCALE: NONE

System No. F-C-1001  
 F Ratings - 1 and 2 Hr (See Item 1)  
 T Ratings - 1 and 2 Hr (See Item 1)  
 L Rating: As Aired - Less Than 4 GPM/ft Ft  
 L Rating At 400 F - 4 GPM/ft Ft

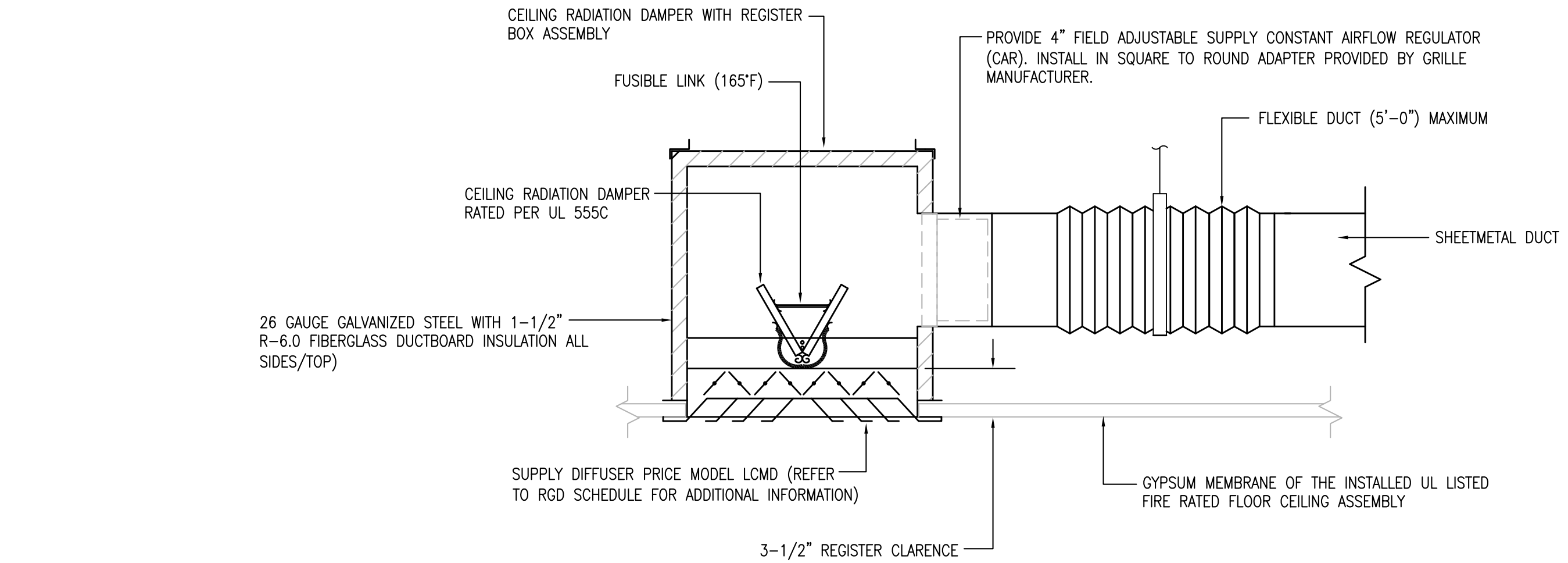


- Floor-Ceiling Assembly** - The 1 or 2 hr fire-rated solid or trussed lumber joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in the individual L500 Series Floor-Ceiling Designs in the UL Fire Resistance Directory. The general construction features of the floor-ceiling assembly are summarized below:
  - Flooring System** - Lumber or plywood subfloor with finish floor of lumber, plywood or Floor Topping Material as specified in the individual Floor-Ceiling Design. Max diam of floor opening is 5 in.
  - Wood 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 Prestopped.
  - Furring Channels** - (Not Show) - (As required) Resilient galvanized steel herring installed in accordance with the manner specified in the individual L500 Series Designs in the Fire Resistance Directory.
  - Gypsum Board** - Thickness, type, number of layers and fasteners shall be as specified in the individual Floor-Ceiling Design. Max diam of opening is 5 in. \*Bearing the UL Classification Mark.
- Chase Wall** - The through penetrant (Item 3) shall be routed through a 1 or 2 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 U500 Series Hall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
  - Studs** - Nom 2 by 6 in. or double nom 2 by 4 in. lumber studs.
  - Soled Plats** - Nom 2 by 6 in. or parallel 2 by 4 in. lumber plates, lightly batted.
  - Top Plats** - The double top plate shall consist of two nom 2 by 6 in. or two sets of parallel 2 by 4 in. lumber plates, lightly batted. Max diam of opening is 5 in.
  - Gypsum Board** - Thickness, type, number of layers and fasteners shall be as specified in individual Hall and Partition Design.
- Through Penetrants** - One metallic pipe, conduit or tubing to be installed within the Prestop system. Pipe, conduit or tubing to be rigidly supported on both sides of floor assembly. The annular space shall be min 0 in. (point contact) to max 3/4 in. It is required within the Prestop system. The following types and sizes of metallic pipes or conduits may be used:
  - Steel Pipe** - Nom 4 in. diam (or smaller) Schedule 40 (or heavier) steel pipe.
  - Iron Pipe** - Nom 4 in. diam (or smaller) cast or ductile iron pipe.
  - Conduit** - Nom 4 in. diam (or smaller) steel 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.
- Fill, Void or Condy Material** - Sealant - Min 5/8 in. thickness of fill material applied within the annular, flush with top surface of floor. A generous bead of fill material also applied within the annular of the top plate, flush with bottom surface of lower top plate.
 

HILTI CONSTRUCTION CHEMICALS, DIV OF  
 HILTI INC - CPK05, CPK06 or FS-One Sealant  
 (Note: L Ratings apply only when FS-One Sealant is used.)

**4** DETAIL @ UNINSULATED STEEL PIPE PENETRATION OF WOOD FLOOR (WITHIN CHASE WALL) (BASED ON HILTI #F-C-1009)  
 M5.1 SCALE: NONE

**5** RATED FLOOR/CEILING ASSEMBLY DUCT PENETRATION DETAIL  
 M5.1 SCALE: NONE



**6** RATED FLOOR/CEILING ASSEMBLY RADIATION DAMPER BOX INSTALLATION DETAIL  
 M5.1 SCALE: NONE

**WILKINSON ASSOCIATES INC**  
 CONSULTING ENGINEERS  
 615 Jefferson Boulevard Warwick, Rhode Island 02886  
 Telephone: (401) 737-4363 Fax: (401) 738-2187  
 Website: www.wilkinsonassociates.net

**Ed Wojcik**  
 architect, ltd  
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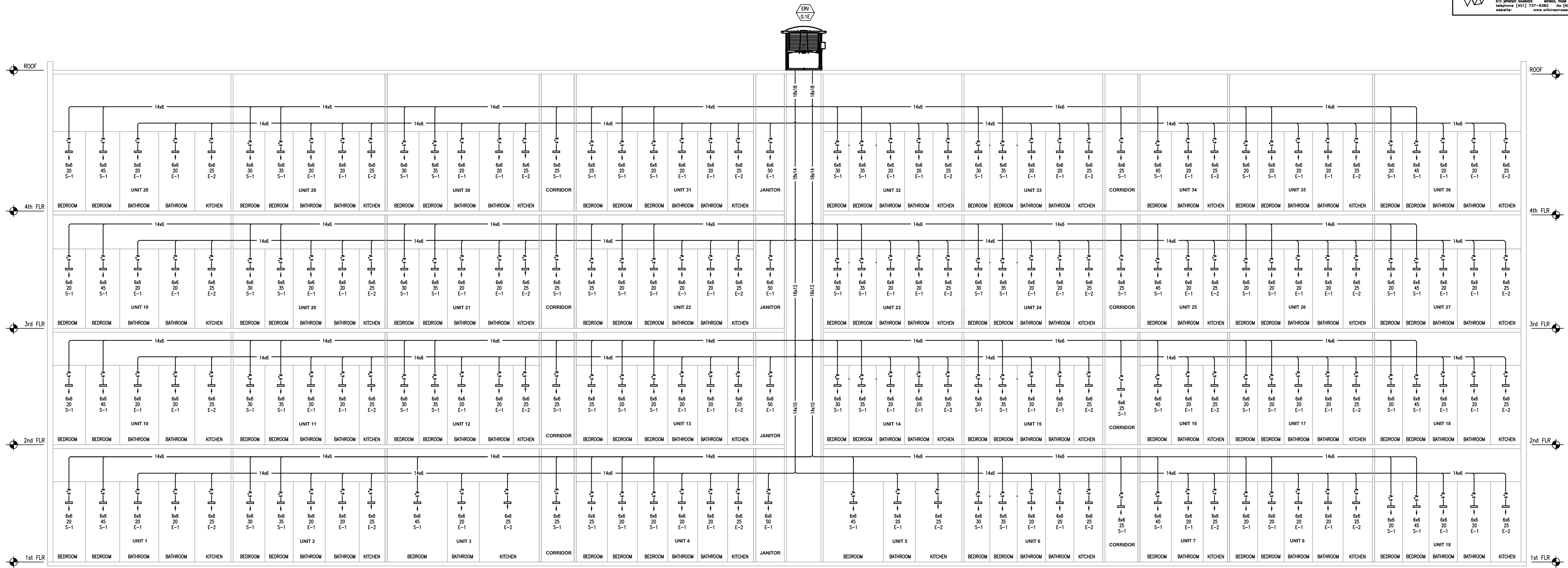


SHEET CONTENTS:  
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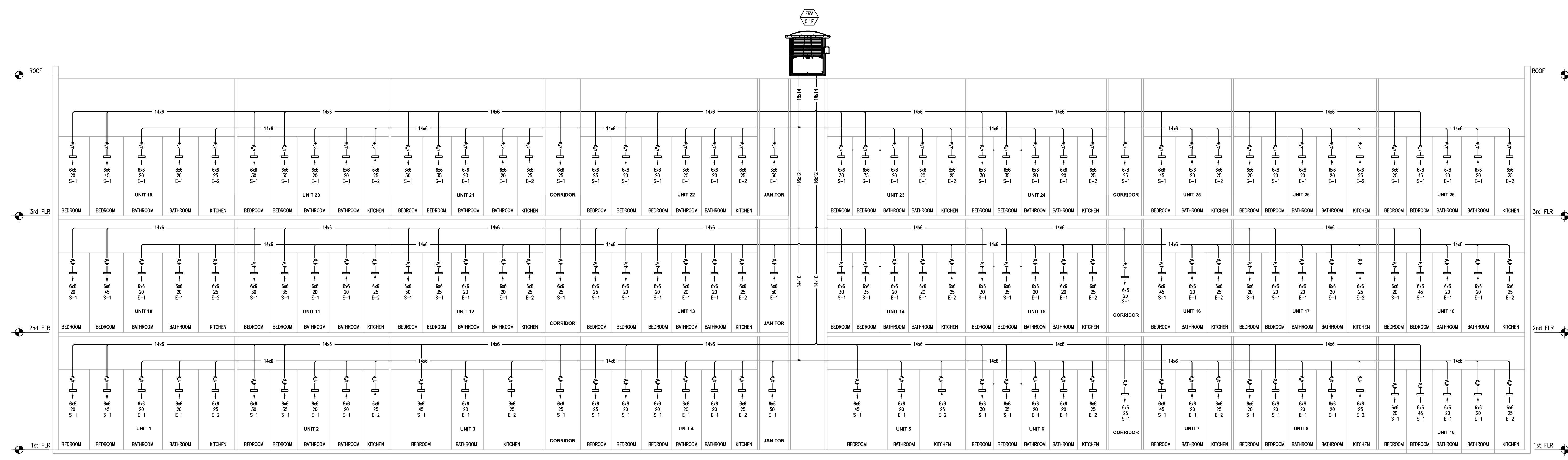
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**M5.1**

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**2 VENTILATION SYSTEM AIRFLOW SYSTEM DIAGRAM - BUILDING E**  
M7.0 SCALE: NONE



**1 VENTILATION SYSTEM AIRFLOW SYSTEM DIAGRAM - BUILDING F**  
M7.0 SCALE: NONE

CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

Proposed Design for:  
**Woodland Cove**  
Phase 1  
Buildings E, F, & COMMUNITY BUILDING  
3102 Cranberry Highway  
Wareham, MA 02552



SHEET CONTENTS:  
MECHANICAL:  
VENTILATION SYSTEM  
AIRFLOW RISER  
DIAGRAM  
BUILDINGS E & F

PROJECT # 1420  
DATE: 9/22/2020  
REVISED DATE:  
REVISED: 02/16/2021

**M7.0**

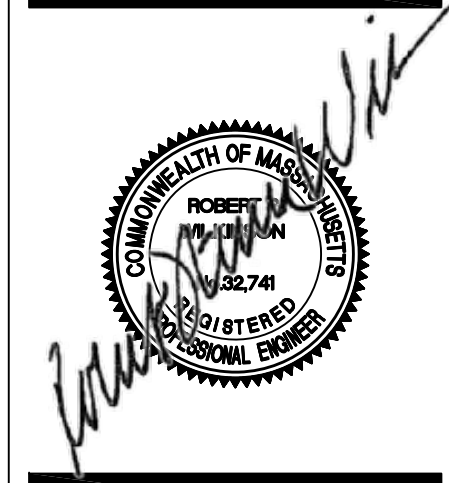


DUCTLESS SPLIT SYSTEM SCHEDULE - BUILDING "E"																									
UNIT TAG No.	LOCATION/SERVICE	CFM	COOLING DATA @ 95°F		HEATING DATA @ 0°F	INDOOR UNIT ELECTRICAL DATA			REFRIG.	WEIGHT INDOOR (LBS.)	MANUFACTURERS MODEL No.	UNIT TAG No.	EER	COP	OUTDOOR UNIT ELECTRICAL DATA				WEIGHT OUTDOOR (LBS.)	MANUFACTURERS MODEL No.	REMARKS				
			TOTAL (BTU/H)	SENSIBLE (BTU/H)	TOTAL (BTU/H)	MCA	MOCP	VOLTAGE							MODULE	MCA	MOCP	VOLTAGE							
AC-0.1E	BUILDING E CORRIDOR	300	6,021	5,091	5,129	0.25	15.0	208-230/1/60	R-410a	40.0	DAIKIN MODEL No. PMSZ-P06NBMU-ER5	CU-1.1E (DAIKIN MODEL No. PUHY-EP360TSNU-A)	12.2	3.51											
AC-0.3E	BUILDING E CORRIDOR	300	6,021	5,091	5,129	0.25	15.0	208-230/1/60	R-410a	40.0	DAIKIN MODEL No. PMSZ-P06NBMU-ER5														
AC-0.5E	BUILDING E CORRIDOR	300	6,021	5,091	5,129	0.25	15.0	208-230/1/60	R-410a	40.0	DAIKIN MODEL No. PMSZ-P06NBMU-ER5														
AC-0.7E	BUILDING E CORRIDOR	300	6,021	5,091	5,129	0.25	15.0	208-230/1/60	R-410a	40.0	DAIKIN MODEL No. PMSZ-P06NBMU-ER5														
AC-1.1E	BUILDING E UNIT #1	600	18,396	13,861	15,310	1.6	15.0	208-230/1/60	R-410a	115.0	DAIKIN MODEL No. PEFY-P18NAMU-E3														
AC-1.2E	BUILDING E UNIT #2	600	18,396	13,861	15,310	1.6	15.0	208-230/1/60	R-410a	115.0	DAIKIN MODEL No. PEFY-P18NAMU-E3														
AC-1.3E	BUILDING E UNIT #3	400	12,264	9,672	10,362	1.2	15.0	208-230/1/60	R-410a	115.0	DAIKIN MODEL No. PEFY-P12NAMU-E3														
AC-1.4E	BUILDING E UNIT #4	880	24,000	18,960	27,000	2.8	15.0	208-230/1/60	R-410a	115.0	DAIKIN MODEL No. PEFY-P24NAMU-E3														
AC-1.10E	BUILDING E UNIT #10	600	18,396	13,861	15,310	1.6	15.0	208-230/1/60	R-410a	115.0	DAIKIN MODEL No. PEFY-P18NAMU-E3														
AC-1.11E	BUILDING E UNIT #11	600	18,396	13,861	15,310	1.6	15.0	208-230/1/60	R-410a	115.0	DAIKIN MODEL No. PEFY-P18NAMU-E3							MODULE #1	40.0	60.0	208-230/3/60	633	DAIKIN MODEL No. PUHY-EP120TNU-A		
AC-1.12E	BUILDING E UNIT #12	600	18,396	13,861	15,310	1.6	15.0	208-230/1/60	R-410a	115.0	DAIKIN MODEL No. PEFY-P18NAMU-E3							MODULE #2	40.0	60.0	208-230/3/60	633	DAIKIN MODEL No. PUHY-EP120TNU-A	1,2,3,4,5,6,7,8	
AC-1.13E	BUILDING E UNIT #13	880	24,000	18,960	27,000	2.8	15.0	208-230/1/60	R-410a	115.0	DAIKIN MODEL No. PEFY-P24NAMU-E3							MODULE #3	40.0	60.0	208-230/3/60	633	DAIKIN MODEL No. PUHY-EP120TNU-A		
AC-1.19E	BUILDING E UNIT #19	600	18,396	13,861	15,310	1.6	15.0	208-230/1/60	R-410a	115.0	DAIKIN MODEL No. PEFY-P18NAMU-E3														
AC-1.20E	BUILDING E UNIT #20	600	18,396	13,861	15,310	1.6	15.0	208-230/1/60	R-410a	115.0	DAIKIN MODEL No. PEFY-P18NAMU-E3														
AC-1.21E	BUILDING E UNIT #21	600	18,396	13,861	15,310	1.6	15.0	208-230/1/60	R-410a	115.0	DAIKIN MODEL No. PEFY-P18NAMU-E3														
AC-1.22E	BUILDING E UNIT #22	880	24,000	18,960	27,000	2.8	15.0	208-230/1/60	R-410a	115.0	DAIKIN MODEL No. PEFY-P24NAMU-E3														
AC-1.128E	BUILDING E UNIT #28	600	18,396	13,861	15,310	1.6	15.0	208-230/1/60	R-410a	115.0	DAIKIN MODEL No. PEFY-P18NAMU-E3														
AC-1.29E	BUILDING E UNIT #29	600	18,396	13,861	15,310	1.6	15.0	208-230/1/60	R-410a	115.0	DAIKIN MODEL No. PEFY-P18NAMU-E3														
AC-1.30E	BUILDING E UNIT #30	600	18,396	13,861	15,310	1.6	15.0	208-230/1/60	R-410a	115.0	DAIKIN MODEL No. PEFY-P18NAMU-E3														
AC-1.31E	BUILDING E UNIT #31	880	24,000	18,960	27,000	2.8	15.0	208-230/1/60	R-410a	115.0	DAIKIN MODEL No. PEFY-P24NAMU-E3														
VRFC-0.1E	BUILDING E/ERV-0.1E	2285	(36,000)	(28,440)	37,188	N/A	N/A	N/A	R-410a	50.0	DAIKIN LEV KIT & DX COIL														

1. PROVIDE WITH WIRELESS SIMPLE REMOTE CONTROLLER WITH PROGRAMMABLE 7-DAY HEATING/COOLING CAPABILITIES. 2. UNIT MANUFACTURER TO PROVIDE 18" HIGH CONDENSING UNIT SUPPORT STAND. PROVIDE VIBRATION ISOLATION BENEATH SUPPORT STAND FEET & AND ON TOP OF SUPPORT STAND FEET AT FASTENER LOCATION. VIBRATION ISOLATION SHALL BE SIMILAR TO MASON INDUSTRIES SUPER "W" PAD. 3. EACH OUTDOOR CONDENSING UNIT WILL REQUIRE A SEPARATE POWER FEED (REFER TO SYSTEM SCHEMATIC FOR ADDITIONAL INFORMATION). 4. PROVIDE 8 HOURS OF OWNER TRAINING ON SYSTEM SETUP, SYSTEM ADJUSTMENT, ALARM MONITORING, ETC. 5. PROVIDE CENTRALIZED CONTROLLER (S) WITH EXPANSION CONTROLLERS AS REQUIRED. 6. PROVIDE WITH ENERGY ALLOCATION SOFTWARE, PI BOARDS ALL REQUIRED APPURTENANCE TO DELIVER A COMPLETE FUNCTIONING ENERGY ALLOCATION CONTROL SYSTEM. 7. AT EACH INDOOR UNIT PROVIDE A 3/4" PVC CHECK VALVE. DX COIL COOLING CAPACITIES ARE APPROXIMATE COIL SHALL BE SIZED TO HEATING CAPACITY.

**Ed Wojcik**  
architect, ltd  
One Richmond Square  
Providence, RI 02906  
401-861-7139

Proposed Design for:  
**Woodland Cove**  
Phase I  
Buildings E, F, & COMMUNITY BUILDING  
3102 Cranberry Highway  
Wareham, MA 02552



SHEET CONTENTS:  
MECHANICAL:  
SCHEDULES

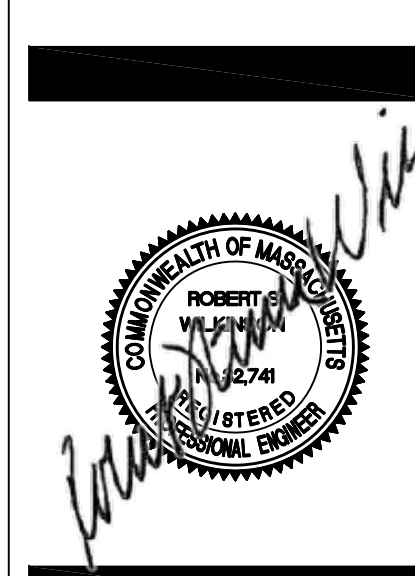
PROJECT # 1420  
DATE: 9/22/2020  
REVISED DATE:  
REVISOR: 02/16/2021

**M8.1**

CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

AC CU		DUCTLESS SPLIT SYSTEM SCHEDULE - BUILDING "F"																											
UNIT TAG No.	LOCATION/SERVICE	CFM	COOLING DATA @ 95°F			HEATING DATA @ 0°F		INDOOR UNIT ELECTRICAL DATA			REFRIG.	WEIGHT INDOOR (LBS.)	MANUFACTURERS MODEL No.	UNIT TAG No.	EER	COP	OUTDOOR UNIT ELECTRICAL DATA				WEIGHT OUTDOOR (LBS.)	MANUFACTURERS MODEL No.	REMARKS						
			TOTAL (BTU/H)	SENSIBLE (BTU/H)	TOTAL (BTU/H)	MCA	MOCP	VOLTAGE	MODULE	MCA							MOCP	VOLTAGE											
AC-0.1F	BUILDING F CORRIDOR	300	6,021	5,091	5,129	0.25	15.0	208-230/1/60	R-410a	40.0	MITSUBISHI MODEL No. PMFY-P06NBMU-ER5	CU-1.1F (MITSUBISHI MODEL No. PUHY-EP288TNU-A)	12.4	3.65															
AC-0.3F	BUILDING F CORRIDOR	300	6,021	5,091	5,129	0.25	15.0	208-230/1/60	R-410a	40.0	MITSUBISHI MODEL No. PMFY-P06NBMU-ER5																		
AC-0.5F	BUILDING F CORRIDOR	300	6,021	5,091	5,129	0.25	15.0	208-230/1/60	R-410a	40.0	MITSUBISHI MODEL No. PMFY-P06NBMU-ER5																		
AC-1.1F	BUILDING F UNIT #1	600	18,396	13,861	15,310	1.6	15.0	208-230/1/60	R-410a	115.0	MITSUBISHI MODEL No. PEFY-P18NAMU-E3																		
AC-1.2F	BUILDING F UNIT #2	600	18,396	13,861	15,310	1.6	15.0	208-230/1/60	R-410a	115.0	MITSUBISHI MODEL No. PEFY-P18NAMU-E3																		
AC-1.3F	BUILDING F UNIT #3	400	12,264	9,672	10,362	1.2	15.0	208-230/1/60	R-410a	115.0	MITSUBISHI MODEL No. PEFY-P12NAMU-E3																		
AC-1.4F	BUILDING F UNIT #4	880	24,000	18,960	27,000	2.8	15.0	208-230/1/60	R-410a	115.0	MITSUBISHI MODEL No. PEFY-P24NAMU-E3																		
AC-1.10F	BUILDING F UNIT #10	600	18,396	13,861	15,310	1.6	15.0	208-230/1/60	R-410a	115.0	MITSUBISHI MODEL No. PEFY-P18NAMU-E3																		
AC-1.11F	BUILDING F UNIT #11	600	18,396	13,861	15,310	1.6	15.0	208-230/1/60	R-410a	115.0	MITSUBISHI MODEL No. PEFY-P18NAMU-E3																		
AC-1.12F	BUILDING F UNIT #12	600	18,396	13,861	15,310	1.6	15.0	208-230/1/60	R-410a	115.0	MITSUBISHI MODEL No. PEFY-P18NAMU-E3																		
AC-1.13F	BUILDING F UNIT #13	880	24,000	18,960	27,000	2.8	15.0	208-230/1/60	R-410a	115.0	MITSUBISHI MODEL No. PEFY-P24NAMU-E3																		
AC-1.19F	BUILDING F UNIT #19	600	18,396	13,861	15,310	1.6	15.0	208-230/1/60	R-410a	115.0	MITSUBISHI MODEL No. PEFY-P18NAMU-E3																		
AC-1.20F	BUILDING F UNIT #20	600	18,396	13,861	15,310	1.6	15.0	208-230/1/60	R-410a	115.0	MITSUBISHI MODEL No. PEFY-P18NAMU-E3																		
AC-1.21F	BUILDING F UNIT #21	600	18,396	13,861	15,310	1.6	15.0	208-230/1/60	R-410a	115.0	MITSUBISHI MODEL No. PEFY-P18NAMU-E3																		
AC-1.22F	BUILDING F UNIT #22	880	24,000	18,960	27,000	2.8	15.0	208-230/1/60	R-410a	115.0	MITSUBISHI MODEL No. PEFY-P24NAMU-E3																		
VRFC-0.1F	BUILDING F/ERV-0.1F	1830	(30,000)	(23,700)	29,783	N/A	N/A	N/A	R-410a	50.0	MITSUBISHI LEV KIT & DX COIL																		
AC-0.2F	BUILDING F CORRIDOR	300	6,021	5,091	5,129	0.25	15.0	208-230/1/60	R-410a	40.0	MITSUBISHI MODEL No. PMFY-P06NBMU-ER5				CU-1.2F (MITSUBISHI MODEL No. PUHY-EP288TNU-A)	12.4	3.65												
AC-0.4F	BUILDING F CORRIDOR	300	6,021	5,091	5,129	0.25	15.0	208-230/1/60	R-410a	40.0	MITSUBISHI MODEL No. PMFY-P06NBMU-ER5																		
AC-0.6F	BUILDING F CORRIDOR	300	6,021	5,091	5,129	0.25	15.0	208-230/1/60	R-410a	40.0	MITSUBISHI MODEL No. PMFY-P06NBMU-ER5																		
AC-1.5F	BUILDING F UNIT #5	400	12,264	9,672	10,362	1.2	15.0	208-230/1/60	R-410a	115.0	MITSUBISHI MODEL No. PEFY-P12NAMU-E3																		
AC-1.6F	BUILDING F UNIT #6	600	18,396	13,861	15,310	1.6	15.0	208-230/1/60	R-410a	115.0	MITSUBISHI MODEL No. PEFY-P18NAMU-E3																		
AC-1.7F	BUILDING F UNIT #7	400	12,264	9,672	10,362	1.2	15.0	208-230/1/60	R-410a	115.0	MITSUBISHI MODEL No. PEFY-P12NAMU-E3																		
AC-1.8F	BUILDING F UNIT #8	600	18,396	13,861	15,310	1.6	15.0	208-230/1/60	R-410a	115.0	MITSUBISHI MODEL No. PEFY-P18NAMU-E3																		
AC-1.9F	BUILDING F UNIT #9	600	18,396	13,861	15,310	1.6	15.0	208-230/1/60	R-410a	115.0	MITSUBISHI MODEL No. PEFY-P18NAMU-E3																		
AC-1.14F	BUILDING F UNIT #14	600	18,396	13,861	15,310	1.6	15.0	208-230/1/60	R-410a	115.0	MITSUBISHI MODEL No. PEFY-P18NAMU-E3																		
AC-1.15F	BUILDING F UNIT #15	600	18,396	13,861	15,310	1.6	15.0	208-230/1/60	R-410a	115.0	MITSUBISHI MODEL No. PEFY-P18NAMU-E3																		
AC-1.16F	BUILDING F UNIT #16	400	12,264	9,672	10,362	1.2	15.0	208-230/1/60	R-410a	115.0	MITSUBISHI MODEL No. PEFY-P12NAMU-E3																		
AC-1.17F	BUILDING F UNIT #17	600	18,396	13,861	15,310	1.6	15.0	208-230/1/60	R-410a	115.0	MITSUBISHI MODEL No. PEFY-P18NAMU-E3																		
AC-1.18F	BUILDING F UNIT #18	600	18,396	13,861	15,310	1.6	15.0	208-230/1/60	R-410a	115.0	MITSUBISHI MODEL No. PEFY-P18NAMU-E3																		
AC-1.23F	BUILDING F UNIT #13	600	18,396	13,861	15,310	1.6	15.0	208-230/1/60	R-410a	115.0	MITSUBISHI MODEL No. PEFY-P18NAMU-E3																		
AC-1.24F	BUILDING F UNIT #24	600	18,396	13,861	15,310	1.6	15.0	208-230/1/60	R-410a	115.0	MITSUBISHI MODEL No. PEFY-P18NAMU-E3																		
AC-1.25F	BUILDING F UNIT #25	400	12,264	9,672	10,362	1.2	15.0	208-230/1/60	R-410a	115.0	MITSUBISHI MODEL No. PEFY-P12NAMU-E3																		
AC-1.26F	BUILDING F UNIT #26	600	18,396	13,861	15,310	1.6	15.0	208-230/1/60	R-410a	115.0	MITSUBISHI MODEL No. PEFY-P18NAMU-E3																		
AC-1.27F	BUILDING F UNIT #27	600	18,396	13,861	15,310	1.6	15.0	208-230/1/60	R-410a	115.0	MITSUBISHI MODEL No. PEFY-P18NAMU-E3																		

1. PROVIDE WITH WIRELESS SIMPLE REMOTE CONTROLLER WITH PROGRAMMABLE 7-DAY HEATING/COOLING CAPABILITIES. 2. UNIT MANUFACTURER TO PROVIDE 18" HIGH CONDENSING UNIT SUPPORT STAND. PROVIDE VIBRATION ISOLATION BENEATH SUPPORT STAND FEET & AND ON TOP OF SUPPORT STAND FEET AT FASTENER LOCATION. VIBRATION ISOLATION SHALL BE SIMILAR TO MASON INDUSTRIES SUPER "W" PAD. 3. EACH OUTDOOR CONDENSING UNIT WILL REQUIRE A SEPARATE POWER FEED (REFER TO SYSTEM SCHEMATIC FOR ADDITIONAL INFORMATION). 4. PROVIDE 8 HOURS OF OWNER TRAINING ON SYSTEM SETUP, SYSTEM ADJUSTMENT, ALARM MONITORING, ETC. 5. PROVIDE CENTRALIZED CONTROLLER (S) WITH EXPANSION CONTROLLERS AS REQUIRED. 6. PROVIDE WITH ENERGY ALLOCATION SOFTWARE, PI BOARDS ALL REQUIRED APPURTENANCE TO DELIVER A COMPLETE FUNCTIONING ENERGY ALLOCATION CONTROL SYSTEM. 7. AT EACH INDOOR UNIT PROVIDE A 3/4" PVC CHECK VALVE. 8. DX COIL COOLING CAPACITIES ARE APPROXIMATE COIL SHALL BE SIZED TO HEATING CAPACITY.



SHEET CONTENTS:  
**MECHANICAL SCHEDULES**

PROJECT # 1420  
DATE: 9/22/2020  
REVISED DATE:  
REVISED: 02/16/2021

CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021



ENERGY RECOVERY VENTILATOR																							
UNIT TAG No.	LOCATION/SERVICE	SUPPLY FAN					EXHAUST FAN					WHEEL PERFORMANCE - SUMMER		WHEEL PERFORMANCE - WINTER		HEAT RECOVERY EFFICIENCY (%)	PRE-HEATER (KW)	ELECTRICAL DATA			WEIGHT (LBS)	MANUFACTURER MODEL NUMBER	REMARKS
		CFM	ESP IN WC	FAN RPM	MOTOR HP	WATTS/CFM	CFM	ESP IN WC	FAN RPM	MOTOR HP	WATTS/CFM	EAT DB/WB (°F)	LAT DB (°F)	EAT DB (°F)	LAT DB (°F)			MCA	MOP	VOLTAGE			
<b>BUILDING "E"</b>																							
ERV-0.1E	ROOF/BUILDING E	2445	0.80	1800	2.56	8.8	2445	0.80	1800	2.56	8.8	89.0/73.0	78.3/66.4	0	58.4	76.5	16.3	68.6	70.0	208/3/60	1720	VENTACITY MODEL No. VS3000RT	1,2,3
<b>BUILDING "F"</b>																							
ERV-0.1F	ROOF/BUILDING F	1830	0.80	1800	2.56	11.8	1830	0.80	1800	2.56	11.8	89.0/73.0	77.9/65.9	0	61.1	79.2	16.3	68.6	70.0	208/3/60	1720	VENTACITY MODEL No. VS3000RT	1,2,3

1. PROVIDE MESH BIRDSCREEN (0.50" MAXIMUM) AT OUTDOOR AIR INTAKES. 2. PROVIDE WITH OUTDOOR INTAKE FILTERS RATED AT MERV-13 & RETURN AIR FILTER RATED AT MERV-8. 3. PROVIDE WITH 14" HIGH INSULATED ROOF CURB MICROMETL MODEL CA-1804-023

ELECTRIC HEATING EQUIPMENT SCHEDULE														
UNIT TAG NO.	LOCATION/SERVICE	CFM	DUCTWORK WIDTH X HEIGHT	ARRANGEMENT	CAPACITY (BTU/HR)	EAT (°F)	LAT (°F)	ELECTRICAL DATA			WEIGHT (LBS)	MANUFACTURER MODEL NUMBER	REMARKS	
								KW	NUMBER OF STAGES	VOLTAGE				AMPS
<b>BUILDING "E"</b>														
EHU-1.1E, 1.2E, 1.8E, 1.9E, 1.10E, 1.11E, 1.17E, 1.18E, 1.19E, 1.20E, 1.26E, 1.27E, 1.28E, 1.29E, 1.35E, 1.36E	BUILDING E	N/A	N/A	N/A	3,840	65.0	95.0	1.12	1	208/1/60	5.4	25	QMARK MODEL No. QTS1504T	1,7
EHU-0.1E, 0.2E	BUILDING E	250	N/A	WALL - FRONT INLET/FRONT OUTLET	10,239	65.0	95.0	3.0	1	208/3/60	9.0	120	QMARK MODEL No. CU935	1,5,6,7
EHU-0.3E, 0.4E	BUILDING E	250	N/A	CEILING RECESSED - FRONT INLET/FRONT OUTLET	6,826	65.0	95.0	2.0	1	208/3/60	6.0	120	QMARK MODEL No. CU935	1,5,6,7
EHU-0.5E	BUILDING E	800	12x12	N/A	60,760	0	70.0	17.8	SCR	208/3/60	49.4	50	INDEECO MODEL No. QUIZ	2,3,7
EHU-0.6E	BUILDING E	270	N/A	N/A	6,396	65.0	95.0	1.9	1	208/1/60	11.3	25	QMARK MODEL No. MWUH5004	1
<b>BUILDING "F"</b>														
EHU-1.1F, 1.2F, 1.8F, 1.9F, 1.10F, 1.11F, 1.17F, 1.18F, 1.19F, 1.20F, 1.26F, 1.27F	BUILDING F	N/A	N/A	N/A	3,840	65.0	95.0	1.12	1	208/1/60	5.4	25	QMARK MODEL No. QTS1504T	1,7
EHU-0.1F, 0.2F	BUILDING F	250	N/A	WALL - FRONT INLET/FRONT OUTLET	10,239	65.0	95.0	3.0	1	208/3/60	9.0	120	QMARK MODEL No. CU935	1,6,7
EHU-0.3F, 0.4F	BUILDING F	250	N/A	CEILING RECESSED - FRONT INLET/FRONT OUTLET	6,826	65.0	95.0	2.0	1	208/3/60	6.0	120	QMARK MODEL No. CU935	1,5,6,7
EHU-0.5F	BUILDING F	600	12x10	N/A	45,570	0	70.0	13.3	SCR	208/3/60	27.4	50	INDEECO MODEL No. QUIZ	2,3,7
EHU-0.6F	BUILDING F	270	N/A	N/A	6,396	65.0	95.0	1.9	1	208/1/60	11.3	25	QMARK MODEL No. MWUH5004	1

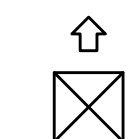
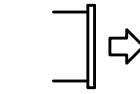




1. PROVIDE WITH INTEGRAL SINGLE POLE THERMOSTAT. 2. PROVIDE WITH CONTROLS OPTION "K" WITH SCR PROPORTIONAL CONTROLS INCLUDING BUT NOT LIMITED TO THE FOLLOWING: AUTOMATIC & MANUAL THERMAL CUTOUTS, DIFFERENTIAL AIRFLOW SWITCH, SAFETY MAGNETIC CONTRACTORS, MAGNETIC CONTRACTORS, FUSES, TRANSFORMER, DISCONNECT SWITCH, DUCT THERMOSTAT. 3. PROVIDE WITH FLANGED CONNECTION AT UNIT FOR HORIZONTAL INSTALLATION. 4. NOT USED. 5. PROVIDE WITH CEILING/WALL RECESS TRIM KIT. 6. PROVIDE WITH DEAD FRONT DISCONNECT SWITCH. 7. CONTRACTOR TO VERIFY ALL QUANTITIES.

FAN SCHEDULE													
UNIT TAG NO.	LOCATION/SERVICE	FAN TYPE	CFM	ESP (IN WC)	SONES (RADIATED)	SPEED (RPM)		DRIVE TYPE	ELECTRICAL DATA		WEIGHT (LBS)	MANUFACTURERS MODEL NUMBER	REMARKS
						FAN	MOTOR		HP	VOLTAGE			
<b>BUILDING "E"</b>													
SF-0.1E	BUILDING E	INLINE	800	0.50	3.4	1,348	1,725	DIRECT	0.25	120/60/1	65	GREENHECK MODEL No. SQ-100-VG	-
<b>BUILDING "F"</b>													
SF-0.1F	BUILDING F	INLINE	600	0.50	2.9	1,227	1,725	DIRECT	0.25	120/60/1	65	GREENHECK MODEL No. SQ-100-VG	-

PROVIDE WITH THE FOLLOWING OPTIONS/ACCESSORIES: VARI-GREEN EC MOTOR, VARI-GREEN CONSTANT PRESSURE INTEGRAL TRANSDUCER WITH ROOM TAP, VARI-GREEN TRANSFORMER MOUNTED/WIRED, NEMA 1 DISCONNECT SWITCH, MOTORIZED DAMPER WITH 120 VOLT ACTUATOR, PERMATECTOR COATING ON FAN & ACCESSORIES, 1" THICK INSULATED FAN HOUSING, SPRING HANGING VIBRATION ISOLATORS, CONTRACTOR TO VERIFY ALL QUANTITIES

DUCTLESS HEATPUMP SYSTEM SCHEDULE																					
UNIT TAG No.	LOCATION/SERVICE	CFM	COOLING DATA @ 95°F		HEATING DATA @ 0°F		INDOOR UNIT ELECTRICAL DATA			REFRIG.	WEIGHT INDOOR (LBS.)	MANUFACTURERS MODEL No.	UNIT TAG No.	SEER	HSPF	OUTDOOR UNIT ELECTRICAL DATA			WEIGHT OUTDOOR (LBS.)	MANUFACTURERS MODEL No.	REMARKS
			TOTAL (BTU/H)	SENSIBLE (BTU/H)	TOTAL (BTU/H)	MCA	MOCF	VOLTAGE	MCA							MOCF	VOLTAGE				
<b>BUILDING "E"</b>																					
HP-1.0E	ELEVATOR MACHINE ROOM-BUILDING E	425	18,000	13,500	19,000	1.0	NOTE 1	208-230/1/60	R-410A	30	MITSUBISHI MODEL No. PKA-A18NHA3	HPC-1.0E	15.3	9.5	13.0	15.0	208-230/1/60	100	MITSUBISHI MODEL No. PUZ-A18NHA3	-	
<b>BUILDING "F"</b>																					
HP-1.0F	ELEVATOR MACHINE ROOM-BUILDING F	425	18,000	13,500	19,000	1.0	NOTE 1	208-230/1/60	R-410A	30	MITSUBISHI MODEL No. PKA-A18NHA3	HPC-1.0F	15.3	9.5	13.0	15.0	208-230/1/60	100	MITSUBISHI MODEL No. PUZ-A18NHA3	-	

1. INDOOR UNIT POWERED THROUGH OUTDOOR HEATPUMP UNIT. 2. PROVIDE WITH WIRELESS SIMPLE REMOTE CONTROLLER WITH PROGRAMMABLE 7-DAY HEATING/COOLING CAPABILITIES. 3. UNIT MANUFACTURER TO PROVIDE 18" HIGH CONDENSING UNIT SUPPORT STAND. PROVIDE VIBRATION ISOLATION BENEATH SUPPORT STAND FEET & AND ON TOP OF SUPPORT STAND FEET AT FASTENER LOCATION. VIBRATION ISOLATION SHALL BE SIMILAR TO MASON INDUSTRIES SUPER "N" PAD. 4. AT EACH INDOOR UNIT PROVIDE A 3/4" PVC CHECK VALVE.

DIFFUSER / REGISTER SCHEDULE			
SUPPLY DIFFUSERS			
BASED ON PRICE INDUSTRIES			
THROW	MODEL	SYMBOL	
	1-WAY	LCMD	S-1
PROVIDE WITH THE FOLLOWING OPTIONS/ACCESSORIES: ALUMINUM CONSTRUCTION, REGISTER BOX WITH CEILING RADIATION DAMPER, FRAME SUITABLE FOR GYP CEILING INSTALLATION, PROVIDE 4" FIELD ADJUSTABLE SUPPLY CONSTANT AIRFLOW REGULATOR (CAR) MODEL CAR-II AS MANUFACTURED BY ALDES, INSTALL AIRFLOW REGULATOR IN REGISTER BOX INLET.			
	DOUBLE DEFLECTION	620	S-2
PROVIDE WITH THE FOLLOWING OPTIONS/ACCESSORIES: ALUMINUM CONSTRUCTION, DOUBLE DEFLECTION, FRONT BLADES PARALLEL TO THE LONG DIMENSION, 3/4" BLADE SPACING, OPPOSED BLADE DAMPER, FRAME SUITABLE FOR SIDEWALL MOUNTING.			
RETURN / EXHAUST/TRANSFER REGISTERS			
BASED ON PRICE INDUSTRIES			
THROW	MODEL	SYMBOL	
	N/A	635FF	R-1
PROVIDE WITH THE FOLLOWING OPTIONS/ACCESSORIES: ALUMINUM CONSTRUCTION, 1/2" LOUVER SPACING, FRAME SUITABLE FOR GYP WALL INSTALLATION, PROVIDE WITH 1" MERV-8 FILTER			
	N/A	635	E-1
PROVIDE WITH THE FOLLOWING OPTIONS/ACCESSORIES: ALUMINUM CONSTRUCTION, 1/2" LOUVER SPACING, FRAME SUITABLE FOR GYP CEILING INSTALLATION, SQUARE TO 4" ROUND TRANSITION. PROVIDE CONSTANT AIRFLOW REGULATOR (CAR) MODEL CAR-II AS MANUFACTURED BY ALDES. INSTALL AIRFLOW REGULATOR IN SQUARE TO ROUND TRANSITION NECK			
	N/A	635FF	E-2
PROVIDE WITH THE FOLLOWING OPTIONS/ACCESSORIES: PROVIDE WITH 1" MERV-3 FILTER, ALUMINUM CONSTRUCTION, 1/2" LOUVER SPACING, FRAME SUITABLE FOR GYP CEILING INSTALLATION, SQUARE TO 4" ROUND TRANSITION. PROVIDE CONSTANT AIRFLOW REGULATOR (CAR) MODEL CAR-II AS MANUFACTURED BY ALDES. INSTALL AIRFLOW REGULATOR IN SQUARE TO ROUND TRANSITION NECK			
	N/A	635	T-1
PROVIDE WITH THE FOLLOWING OPTIONS/ACCESSORIES: ALUMINUM CONSTRUCTION, 1/2" LOUVER SPACING, FRAME SUITABLE FOR GYP WALL INSTALLATION			

CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

Proposed Design for:  
**Woodland Cove**  
**Phase I**  
Buildings E, F, & COMMUNITY BUILDING  
3102 Cranberry Highway  
Wareham, MA 02552



SHEET CONTENTS:  
MECHANICAL SCHEDULES

PROJECT # 1420  
DATE: 9/22/2020  
REVISED DATE:  
REVISED: 02/16/2021

**M8.3**

ELECTRICAL SYMBOL LEGEND	
LIGHTING	POWER
<p><b>LIGHTING</b></p> <p><b>A</b> 1'x4' LIGHTING FIXTURE—LETTER INDICATES TYPE, SUBSCRIPT DENOTES CONTROL AND CIRCUIT NUMBER</p> <p><b>A</b><sub>b</sub> SAME AS PRECEDING SYMBOL, EXCEPT CONNECTED TO AN EMERGENCY SOURCE</p> <p><b>B</b> LIGHTING FIXTURE—LETTER INDICATES TYPE, SUBSCRIPT DENOTES CONTROL AND CIRCUIT NUMBER</p> <p><b>B</b><sub>b</sub> SAME AS PRECEDING SYMBOL, EXCEPT CONNECTED TO AN EMERGENCY SOURCE</p> <p><b>C</b> WALL MOUNTED LIGHTING OUTLET—LETTER INDICATES TYPE, SUBSCRIPT DENOTES CONTROL AND CIRCUIT NUMBER</p> <p><b>C</b><sub>b</sub> SAME AS PRECEDING SYMBOL, EXCEPT CONNECTED TO AN EMERGENCY SOURCE</p> <p><b>D</b> WALL-WASH LIGHTING FIXTURE—LETTER INDICATES TYPE, SUBSCRIPT DENOTES CONTROL AND CIRCUIT NUMBER</p> <p><b>D</b><sub>b</sub> SAME AS PRECEDING SYMBOL, EXCEPT CONNECTED TO AN EMERGENCY SOURCE</p> <p><b>E</b> EXIT SIGN, ONE OR TWO FACED. ARROWS DENOTE DIRECTION. SHADING DENOTES NUMBER AND ORIENTATION OF SIGN FACE(S).</p> <p><b>P</b> POLE MOUNTED LIGHTING</p> <p><b>B</b> BOLLARD LIGHTING</p> <p><b>S</b> SINGLE POLE SWITCH MTD. 48" A.F.F. ("K" INDICATES KEY TYPE, "P" INDICATES WITH PILOT LIGHT)</p> <p><b>S</b><sub>3</sub> 3-WAY SWITCH MTD. 48" A.F.F.</p> <p><b>S</b><sub>4</sub> FOUR WAY SWITCH MTD. 48" A.F.F.</p> <p><b>PC</b> PHOTOELECTRIC CELL</p> <p><b>D</b> DIMMER SWITCH W/VACANCY SENSOR, MTD. 48" A.F.F.</p> <p><b>DW</b> WATTSTOPPER VFCNVCY SENSOR, WALL MOUNTED AT 48" AFF.</p> <p><b>CX</b> WATTSTOPPER MOTION SENSOR, WALL MOUNTED AT 48" AFF.</p> <p><b>DT</b> WATTSTOPPER VACANCY SENSOR, WALL/CEILING MOUNTED.</p> <p><b>MS</b> CEILING MOUNTED ULTRASONIC MOTION SENSOR, FAILSAFE ON. PROVIDE A WATTSTOPPER #DT-300, OR APPROVED EQUAL.</p> <p><b>ELC</b> EMERGENCY LIGHTING CONTROL— PROVIDE A WATTSTOPPER #ELCU-100, OR APPROVED EQUAL.</p>	<p><b>POWER</b></p> <p><b>J</b> JUNCTION BOX</p> <p><b>A/3</b> HOME RUN TO PANELBOARD. "A" DESIGNATES PANEL, "3" DESIGNATES CIRCUIT NUMBER</p> <p><b>     </b> CROSSHATCHING INDICATES NUMBER OF CURRENT CARRYING CONDUCTORS IF MORE THAN TWO ARE REQUIRED. LONGER MARK INDICATES NEUTRAL. GROUNDWIRE IS ALWAYS INSTALLED AND NEVER INDICATED. NO CROSSHATCHING INDICATES 1 HOT, 1 NEUTRAL AND 1 GROUND, ALL #12 THIN.</p> <p><b>⊖</b> TAMPER RESISTANT DUPLEX RECEPTACLE MTD 18" A.F.F. TO CENTER. "C" INDICATES MTD 6" ABOVE COUNTER TOP.</p> <p><b>⊕</b> SAME AS ABOVE EXCEPT QUADRUPLX</p> <p><b>⊖</b> TAMPER RESISTANT GFCI DUPLEX RECEPTACLE MTD 18" A.F.F. TO CENTER. "C" INDICATES MTD 6" ABOVE COUNTER TOP. "X" INDICATES MTD 6" BELOW COUNTER TOP. "EWC" INDICATES ELECTRIC WATER COOLER.</p> <p><b>⊖</b> FLUSH FLOOR BOX</p> <p><b>⊖</b> TAMPER RESISTANT DUPLEX RECEPTACLE, ONE HALF SWITCHED</p> <p><b>⊖</b> RANGE RECEPTACLE</p> <p><b>XX-XX</b> SPECIAL PURPOSE OUTLET WITH NEMA CONFIGURATION TO MATCH EQUIPMENT</p> <p><b>FM</b> FIRE-0-MATIC SWITCH, MTD. OVER BURNER &amp; WATER HEATER. OMOG CAT. #: TC-1</p> <p><b>SEM</b> BOILER EMERGENCY SWITCH. ARROW—HART #: CS120 W/ MULLBERRY 41020 PLATE</p> <p><b>S</b> SINGLE POLE MOTOR RATED SWITCH W/ OVERLOAD HEATER (MANUAL MOTOR STARTER).</p> <p><b>M</b> MOTOR</p> <p><b>M</b> UTILITY COMPANY ELECTRIC METER, OR AS NOTED</p> <p><b>—</b> ELECTRIC PANEL, SURFACE MOUNTED</p> <p><b>—</b> ELECTRIC PANEL, FLUSH MOUNTED</p> <p><b>T</b> TRANSFORMER</p> <p><b>PM</b> POWER MONITOR</p> <p><b>BQ</b> BELL, MOUNTED WITH TOP EVEN WITH TOP OF DOOR FRAME. PROVIDE A HEATH/ZENITH #SL-7560 DOORBELL WITH TRANSFORMER AND A PUSH BUTTON AT EACH EXTERIOR DOOR. DO NOT USE WIRELESS OPTION; WIRE ALL. INSTALL TRANSFORMER HIGH ON WALL INSIDE CLOSET.</p> <p><b>TGB</b> TELECOMMUNICATIONS GROUND BAR</p> <p><b>F</b> CEILING FAN</p> <p><b>TVSS</b> TRANSIENT VOLTAGE SURGE SUPPRESSOR</p> <p><b>C</b> CONTACTOR</p> <p><b>MD</b> MOTORIZED DAMPER</p> <p><b>SV</b> SOLENOID VALVE</p> <p><b>GD</b> GAS DETECTOR</p> <p><b>T</b> THERMOSTAT, MOUNTED 60" A.F.F.</p> <p><b>WM</b> WATER METER</p> <p><b>W</b> WIRING RUN TURNING UP</p> <p><b>W</b> WIRING RUN TURNING DOWN</p> <p><b>◀</b> TELEPHONE OUTLET: PROVIDE A SINGLE GANG PLASTER RING AND OUTLET, MOUNTED 18" A.F.F. TO CENTER. "W" INDICATES 54" A.F.F., "P" INDICATES 47" A.F.F., "A" INDICATES FLOOR MOUNTED, "C" INDICATES MOUNTED 6" ABOVE COUNTER TOP. PROVIDE 4 CONDUCTOR TELEPHONE WIRE FROM OUTLET TO TTB INSIDE DWELLING UNIT.</p> <p><b>◀</b> SAME AS ◀ EXCEPT AOR DATA CABLES</p> <p><b>◀</b> SAME AS ◀ EXCEPT COMBINATION TELEPHONE AND DATA OUTLET</p> <p><b>TV</b> TELEVISION OUTLET: MOUNT 18" A.F.F. TO BOTTOM. PROVIDE COAXIAL CABLE TO TTB INSIDE DWELLING UNIT OR DATA RACK.</p> <p><b>U</b> UTILITY POLE</p> <p><b>(w)</b> TEL/DATA OUTLET, PROVIDE A FLUSH 4" SQUARE BOX WITH 2 GANG MUD RING AND BLANK PLATE, AND 1" EMPTY CONDUIT WITH PULL STRING TO COMMUNICATIONS VENDOR DEMARK. RUN CONDUIT WITH LESS THAN 360 DEGREES OF BENDS THROUGH HARD CEILINGS.</p> <p><b>SEC</b> SECURITY SYSTEM: PROVIDE POWER AND ECPS PER SECURITY VENDOR.</p> <p><b>INT</b> PROVIDE AN "ABN" SERIES M22000 VIDEO INTERCOM SYSTEM</p> <p><b>I</b> VIDEO INTERCOM APARTMENT STATION</p> <p><b>CR</b> CARD READER</p> <p><b>KP</b> SECURITY SYSTEM KEY PAD</p> <p><b>DR</b> DOOR RELEASE</p> <p><b>ML</b> MAGNETIC DOOR LOCK</p> <p><b>S</b> SINGLE POLE MOTOR RATED SWITCH W/ OVERLOAD HEATER (MANUAL MOTOR STARTER).</p> <p><b>F</b> FUSED DISCONNECT SWITCH WITH RATINGS</p> <p><b>30/20/3/DE/1</b> NEMA RATING. "WP" INDICATES RAIN TIGHT INDICATES DUAL ELEMENT FUSES NUMBER OF POLES FUSE SIZE. "WF" INDICATES NON FUSED SWITCH SIZE</p>
<p><b>FIRE ALARM</b></p> <p><b>SD</b> FIRE ALARM SYSTEM SMOKE DET. INSIDE DWELLING UNITS, PROVIDE SOUNDER BASE.</p> <p><b>CO</b> FIRE ALARM SYSTEM CARBON MONOXIDE DETECTOR. FIRE ALARM SYSTEM SMOKE DET. INSIDE DWELLING UNITS, PROVIDE SOUNDER BASE.</p> <p><b>RR</b> FIRE ALARM SYSTEM THERMOCODETECTOR, RATE-OF-RISE TYPE.</p> <p><b>T</b> FIRE ALARM SYSTEM THERMOCODETECTOR, COMBINATION 190 DEGREE FIXED TEMP.</p> <p><b>F</b> FIRE ALARM SYSTEM PULL STATION</p> <p><b>F</b> HORN/STROBE COMBINATION, MTD 80" A.F.F. TO BOTTOM OF STROBE LENS. "CLG" INDICATES CEILING TYPE, "WP" INDICATES WEATHERPROOF. CANDELA RATING SHALL BE 15/75, UNLESS OTHERWISE NOTED.</p> <p><b>ST</b> FIRE ALARM STROBE ONLY, MTD. 80" A.F.F. TO BOTTOM OF STROBE LENS. "CLG" INDICATES CEILING TYPE. CANDELA RATING SHALL BE 15/75, UNLESS OTHERWISE NOTED.</p> <p><b>H</b> FIRE ALARM HORN ONLY, MTD. 80" A.F.F.</p> <p><b>K</b> KEY ACCESS BOX</p> <p><b>M</b> FIRE ALARM SYSTEM MASTERBOX</p> <p><b>△</b> FIRE ALARM ISOLATION MODULE</p> <p><b>MM</b> FIRE ALARM MONITOR MODULE</p> <p><b>CM</b> FIRE ALARM CONTROL MODULE. PROVIDE AN INTERMEDIATE RELAY TO SUIT LOAD.</p> <p><b>FS</b> FIRE ALARM SPRINKLER FLOW SWITCH, BY OTHERS</p> <p><b>PS</b> FIRE ALARM SPRINKLER PRESSURE SWITCH, BY OTHERS</p> <p><b>TS</b> FIRE ALARM SPRINKLER TAMPER SWITCH, BY OTHERS</p> <p><b>CO</b> SELF CONTAINED CARBON MONOXIDE DETECTOR, 120 VOLT WITH BATTERY BACKUP. INTERCONNECT ALL DETECTORS WITHIN DWELLING UNIT.</p> <p><b>SD</b> SELF CONTAINED SMOKE DETECTOR, 120 VOLT, PHOTOELECTRIC TYPE, WITH BATTERY BACKUP. INTERCONNECT ALL DETECTORS WITHIN DWELLING UNIT.</p> <p><b>SC</b> SELF CONTAINED COMBINATION SMOKE AND CARBON MONOXIDE DETECTOR, 120 VOLT, WITH BATTERY BACKUP. INTERCONNECT ALL DETECTORS WITHIN DWELLING UNIT.</p> <p><b>FCAP</b> FIRE ALARM CONTROL PANEL</p> <p><b>NAC</b> FIRE ALARM AUX. POWER SUPPLY</p>	<p><b>ABBREVIATIONS</b></p> <p><b>A</b> AMPS</p> <p><b>AFF</b> ABOVE FINISHED FLOOR</p> <p><b>AFG</b> ABOVE FINISHED GRADE</p> <p><b>AHJ</b> AUTHORITY HAVING JURISDICTION</p> <p><b>ATS</b> AUTOMATIC TRANSFER SWITCH</p> <p><b>BFG</b> BELOW FINISHED GRADE</p> <p><b>BOF</b> BOTTOM OF FIXTURE</p> <p><b>C</b> CONDUIT</p> <p><b>CAT</b> CATALOG</p> <p><b>CB</b> CIRCUIT BREAKER</p> <p><b>CBA</b> COLOR BY ARCHITECT</p> <p><b>cd</b> CANDELA</p> <p><b>CU</b> COPPER</p> <p><b>DN</b> DOWN</p> <p><b>DWC</b> DRAWING</p> <p><b>ECPS</b> EMPTY CONDUIT W/ PULL STRING</p> <p><b>EF</b> EXHAUST FAN</p> <p><b>EG</b> EQUIPMENT GROUND</p> <p><b>EWC</b> ELECTRIC WATER COOLER</p> <p><b>EX</b> EXISTING</p> <p><b>FA</b> FIRE ALARM</p> <p><b>FCAP</b> FIRE ALARM CONTROL PANEL</p> <p><b>FLA</b> FULL LOAD AMPS</p> <p><b>G</b> GROUND</p> <p><b>GFI</b> GROUND FAULT CIRCUIT INTERRUPTER</p> <p><b>HOA</b> HAND-OFF-AUTOMATIC SWITCH</p> <p><b>HP</b> HORSEPOWER</p> <p><b>HVAC</b> HEATING, VENTILATING, AND AIR CONDITIONING</p> <p><b>IG</b> ISOLATED GROUND</p> <p><b>KW</b> KILOWATT</p> <p><b>MCB</b> MAIN CIRCUIT BREAKER</p> <p><b>MTD</b> MOUNTED</p> <p><b>N</b> NEUTRAL</p> <p><b>NA</b> NOT APPLICABLE</p> <p><b>NEC</b> NATIONAL ELECTRICAL CODE</p> <p><b>NF</b> NOT FUSIBLE</p> <p><b>NG</b> NATIONAL GRID (ELECTRIC UTILITY)</p> <p><b>NIC</b> NOT IN CONTRACT</p> <p><b>NL</b> NIGHT LIGHT</p> <p><b>NTS</b> NOT TO SCALE</p> <p><b>OH</b> OVERHEAD</p> <p><b>P</b> POLE</p> <p><b>PH</b> PHASE</p> <p><b>PV</b> PHOTOVOLTAIC</p> <p><b>REC(S)</b> RECEPTACLE(S)</p> <p><b>SEC</b> SECONDARY</p> <p><b>TEL</b> TELEPHONE</p> <p><b>TIB</b> TELEPHONE TERMINAL BOARD</p> <p><b>TYP</b> TYPICAL</p> <p><b>UG</b> UNDERGROUND</p> <p><b>UL</b> UNDERWRITERS LABORATORIES</p> <p><b>UNO</b> UNLESS NOTED OTHERWISE</p> <p><b>UTP</b> UNSHIELDED TWISTED PAIR</p> <p><b>V</b> VOLT</p> <p><b>VFD</b> VARIABLE FREQUENCY DRIVE</p> <p><b>W</b> WATT</p> <p><b>W/</b> WITH</p> <p><b>WP</b> WEATHERPROOF</p> <p><b>XFMR</b> TRANSFORMER</p>
	<p><b>NOTES</b></p> <p>1. CONCEAL ALL WIRING WITHIN WALLS, CEILINGS, AND CHASES IN FINISHED SPACES. THIS INCLUDES FIRE ALARM WIRING.</p> <p>2. VERIFY ALL EQUIPMENT NAMEPLATE LOADS AND INSURE PROPER SIZING OF CONDUCTORS AND OVERCURRENT PROTECTION. NOTIFY ENGINEER OF DISCREPANCIES.</p> <p>3. BALANCE THE PHASES IN EACH ELECTRICAL PANEL.</p> <p>4. MAINTAIN THE FIRE RATING OF ALL WALLS, FLOORS, AND CEILINGS.</p>

**GENERAL NOTES**

- LOCATIONS SHOWN FOR CONNECTIONS TO EQUIPMENT ARE DIAGRAMMATIC. INSTALL FOR EASE OF MAINTENANCE AND TO SUIT EQUIPMENT.
- PROVIDE ALL REQUIRED PULL BOXES, JUNCTION BOXES, AND DISCONNECT SWITCHES.
- DO NOT INSTALL OUTLET BOXES BACK TO BACK. AVOID MORE THAN ONE BOX BETWEEN STUDS, WHERE POSSIBLE.
- COLOR CODE ALL WIRING.
- PROVIDE CONDUIT SLEEVES AS REQUIRED, THROUGH FIRE RATED SEPARATIONS, FIRE SEAL AFTER WIRING IS COMPLETE. MAINTAIN THE SPECIFIED FIRE RATING OF ALL SURFACES.
- COORDINATE CEILING LOCATIONS WITH REFLECTED CEILING PLAN AND OTHER TRADES TO AVOID CONFLICT.
- PROVIDE A NYLON PULL CORD IN ALL EMPTY CONDUITS.
- VERIFY ALL CEILING TYPES AND MATERIALS BEFORE ORDERING ANY LIGHTING FIXTURES.
- THE LOCATIONS OF HVAC EQUIPMENT SHOWN ON THESE DRAWINGS ARE APPROXIMATE. FOR EXACT LOCATIONS REFER TO HVAC DRAWINGS AND SHOP DRAWINGS.
- CONCEAL ALL WIRING UNLESS OTHERWISE NOTED.
- PROVIDE ALL GROUNDING INCLUDING GREEN EQUIPMENT GROUND IN ALL RACEWAYS. GROUND BUILDING SERVICE ACCORDING TO NEC AND ALSO TO STREET SIDE OF WATER METER AND TO APPROVED GROUND ROD.
- CIRCUIT NUMBERS INDICATE PANEL AND CIRCUIT BREAKER FOR EQUIPMENT CONNECTIONS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO INSTALL ALL REQUIRED WIRING PER NATIONAL ELECTRICAL CODE AND PROJECT SPECIFICATIONS TO PROPERLY ENERGIZE THE ELECTRICAL SYSTEM. ALL WIRING SHALL BE RUN IN A NEAT AND ORDERLY MANNER.
- ALL CABLES SHALL BE RUN PARALLEL OR PERPENDICULAR TO WALLS. DO NOT RUN CABLES DIAGONALLY THROUGH ANY SPACE.
- WHERE THE NUMBER OF CURRENT CARRYING CONDUCTORS IN A RACEWAY OR CABLE EXCEEDS THREE, THE ALLOWABLE AMPACITY SHALL BE REDUCED PER NATIONAL ELECTRICAL CODE TABLES BASED ON NO DIVERSITY. CONSIDER NEUTRALS TO BE CURRENT CARRYING CONDUCTORS.
- DO NOT COMBINE CIRCUITS OR USE COMMON NEUTRALS.
- PROVIDE GROUNDING AND BONDING BUSHINGS FOR SERVICE RACEWAYS PER NEC. SIZE THE BONDING JUMPER PER NEC.
- CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS. NO CLAIM FOR EXTRA COMPENSATION SHALL BE ENTERTAINED FOR WORK WHICH A PRELIMINARY EXAMINATION WOULD HAVE REVEALED. THE SUBMISSION OF A BID WILL BE CONSIDERED AS ACKNOWLEDGMENT ON THE PART OF THE BIDDER OF HIS VISITATION TO THE SITE.
- OBTAIN ALL NECESSARY PERMITS AND CERTIFICATES. PRESENT SATISFACTORY PROOF OF FINAL INSPECTION AND APPROVAL BY AUTHORITIES HAVING JURISDICTION.
- MAINTAIN CORRECT PHASE SEQUENCE OF ALL FEEDERS AND CIRCUITS BY ESTABLISHING PHASE IDENTIFICATION AND MAINTAINING CORRECT RELATIONSHIP THROUGHOUT THE SYSTEM. PROVIDE LINE BALANCE WITHIN 10% OF NORMAL LOADS.
- PROVIDE TAMPER RESISTANT RECEPTACLES IN ALL DWELLING UNITS PER NEC.
- USE SCREW-ON TYPE WIRE CONNECTORS. DO NOT USE PUSH-IN TYPE.
- DO NOT USE DIE CAST EMT CONNECTORS. USE STEEL SET SCREW.
- ALL DISCONNECT SWITCHES SHALL BE HEAVY DUTY.
- USE RGS FOR SERVICE RISERS.

**ADDITIONAL NOTES:**

- ALL RECEPTACLES SHALL BE TAMPER RESISTANT.
- INTERCONNECT ALL SMOKE AND CO DETECTOR SOUNDER BASES WITHIN ONE DWELLING UNIT SUCH THAT WHEN ONE DETECTOR IS IN ALARM, THEY ALL SIGNAL ALARM.
- COMPLY WITH ALL NEC RULES FOR LOCATING RECEPTACLES.
- POWER ALL LIGHTING FIXTURES WITHIN ONE DWELLING UNIT FROM ONE BRANCH CIRCUIT, EXCEPT BATHROOM LIGHT.
- POWER BATHROOM SWITCHES AND LIGHTS FROM BATHROOM RECEPTACLE. GFCI PROTECT ALL.
- ALL EXTERIOR RECEPTACLES SHALL BE GFCI PROTECTED.
- WHERE THERE IS ONE SWITCH AND ONE LIGHTING FIXTURE IN A ROOM, WIRE THE SWITCH TO CONTROL THE LIGHT.

**GENERAL NOTES:**

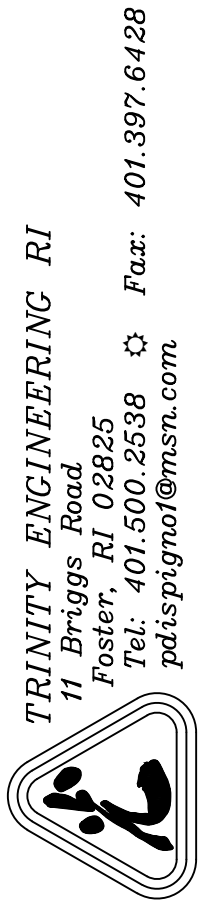
- OBSERVE ALL ELEMENTS OF 2020 NEC 70, ARTICLE 620, INCLUDING LOCKABLE HEAVY DUTY DISCONNECT SWITCH WITH AUXILIARY CONTACTS.
- COMPLY WITH ALL REQUIREMENTS IN SPECIFICATION SECTION 142112, ELECTRIC TRACTION ELEVATORS.

**SECURITY AND ACCESS CONTROL NOTES:**

PROVIDE SECURITY AND ACCESS CONTROL POWER, CONDUIT, AND WIRING PER SECURITY DRAWINGS.

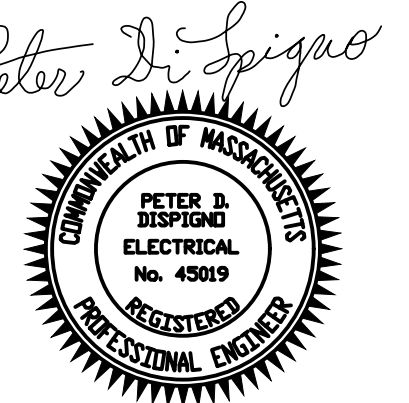
NOTE:  
INDICATES MECHANICAL EQUIPMENT TAG. SEE MECHANICAL CONNECTION SCHEDULES DETAILS.

NOTE:  
INDICATES KITCHEN EQUIPMENT TAG. SEE "ELECTRICAL CONNECTION SCHEDULE FOR KITCHEN EQUIPMENT" FOR DETAILS.



**Ed Wojcik**  
architect, ltd  
One Richmond Square  
Providence, RI 02906  
401-861-7139

Proposed Design for:  
**Woodland Cove**  
**Phase I**  
Buildings E, F, & COMMUNITY BUILDING  
3102 Cranberry Highway  
Wareham, MA 02532



SHEET CONTENTS:

Electrical Symbol Legend and Notes

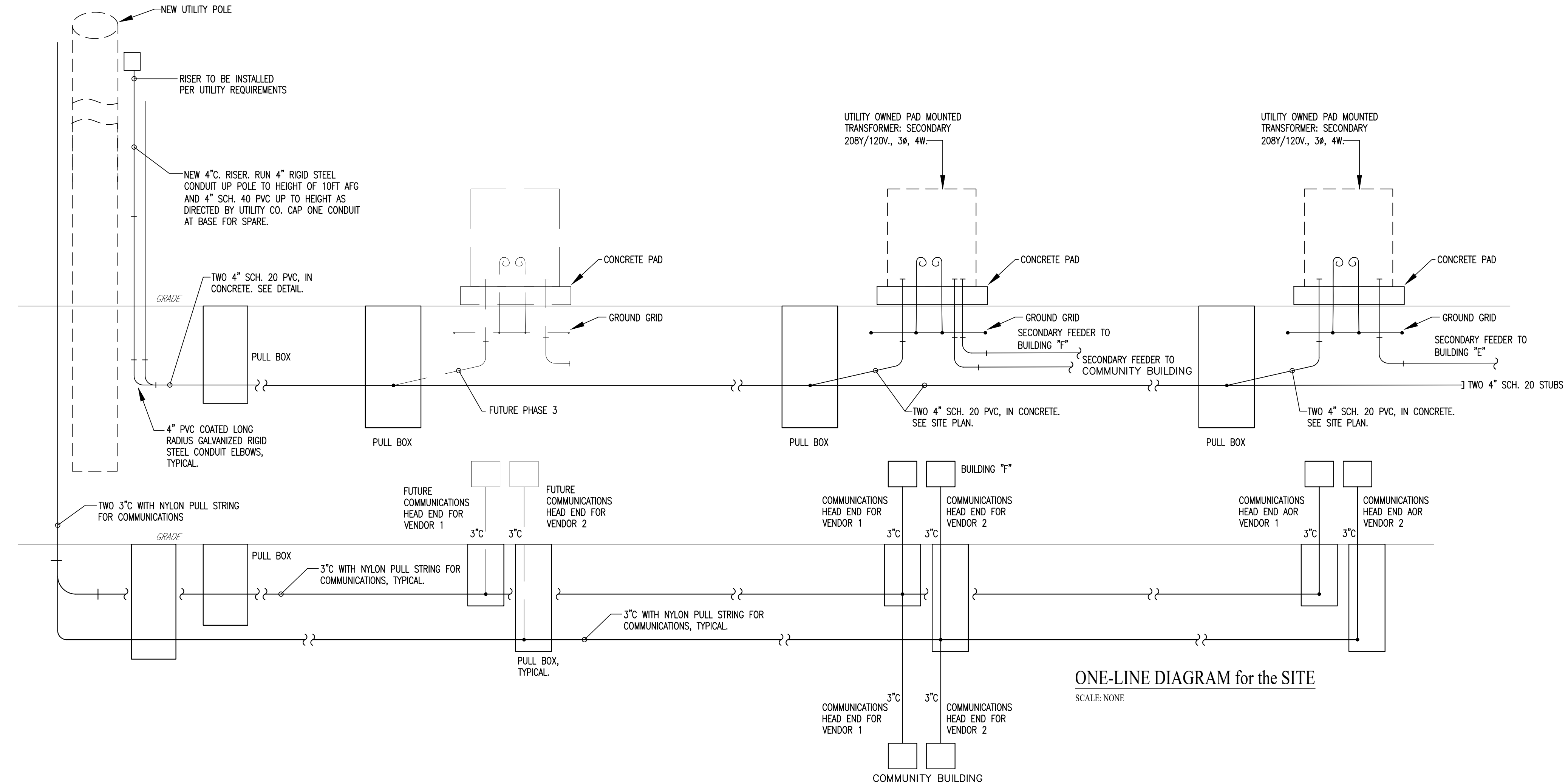
PROJECT # 1420

DATE: 9/22/2020  
REVISED DATE:  
△ REVISED: 02/16/2021

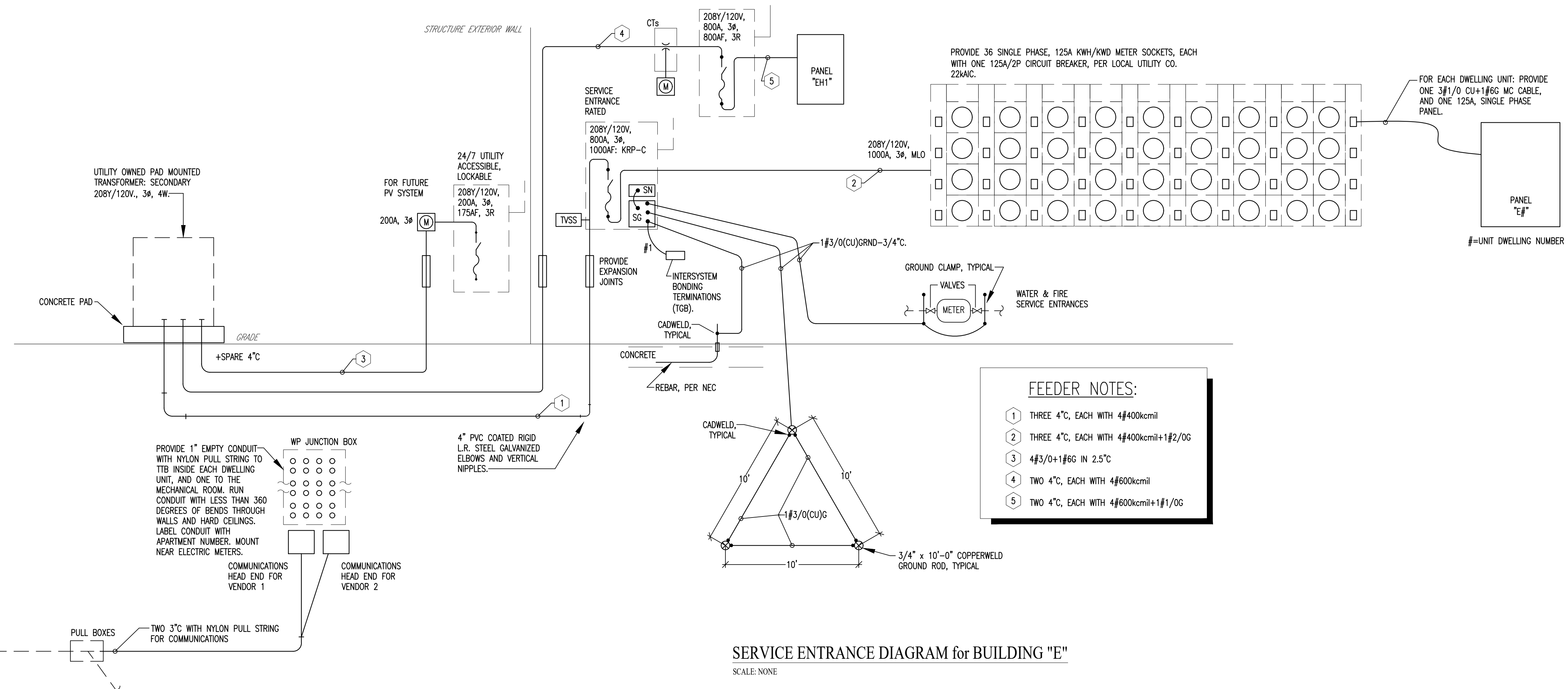
**E0.1**

CONSTRUCTION DOCUMENTS — REVISED SET FEBRUARY 16, 2021

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ONE-LINE DIAGRAM for the SITE  
SCALE: NONE



- FEEDER NOTES:**
- ① THREE 4" C, EACH WITH 4#400kcmil
  - ② THREE 4" C, EACH WITH 4#400kcmil+1#2/0G
  - ③ 4#3/0+1#6G IN 2.5" C
  - ④ TWO 4" C, EACH WITH 4#600kcmil
  - ⑤ TWO 4" C, EACH WITH 4#600kcmil+1#1/0G

SERVICE ENTRANCE DIAGRAM for BUILDING "E"  
SCALE: NONE

**TRINITY ENGINEERING RI**  
 11 Briggs Road  
 Foster RI 02825  
 Tel: 401.500.2538  
 Fax: 401.397.6428  
 pdavis@trinityeng.com

**Ed Wojcik**  
 architect, ltd  
 One Richmond Square  
 Providence, RI 02906  
 401-861-7139

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 Wareham, MA 02532

Peter Di Spigno  
 REGISTERED ELECTRICAL ENGINEER  
 PROFESSIONAL ENGINEER  
 COMMONWEALTH OF MASSACHUSETTS

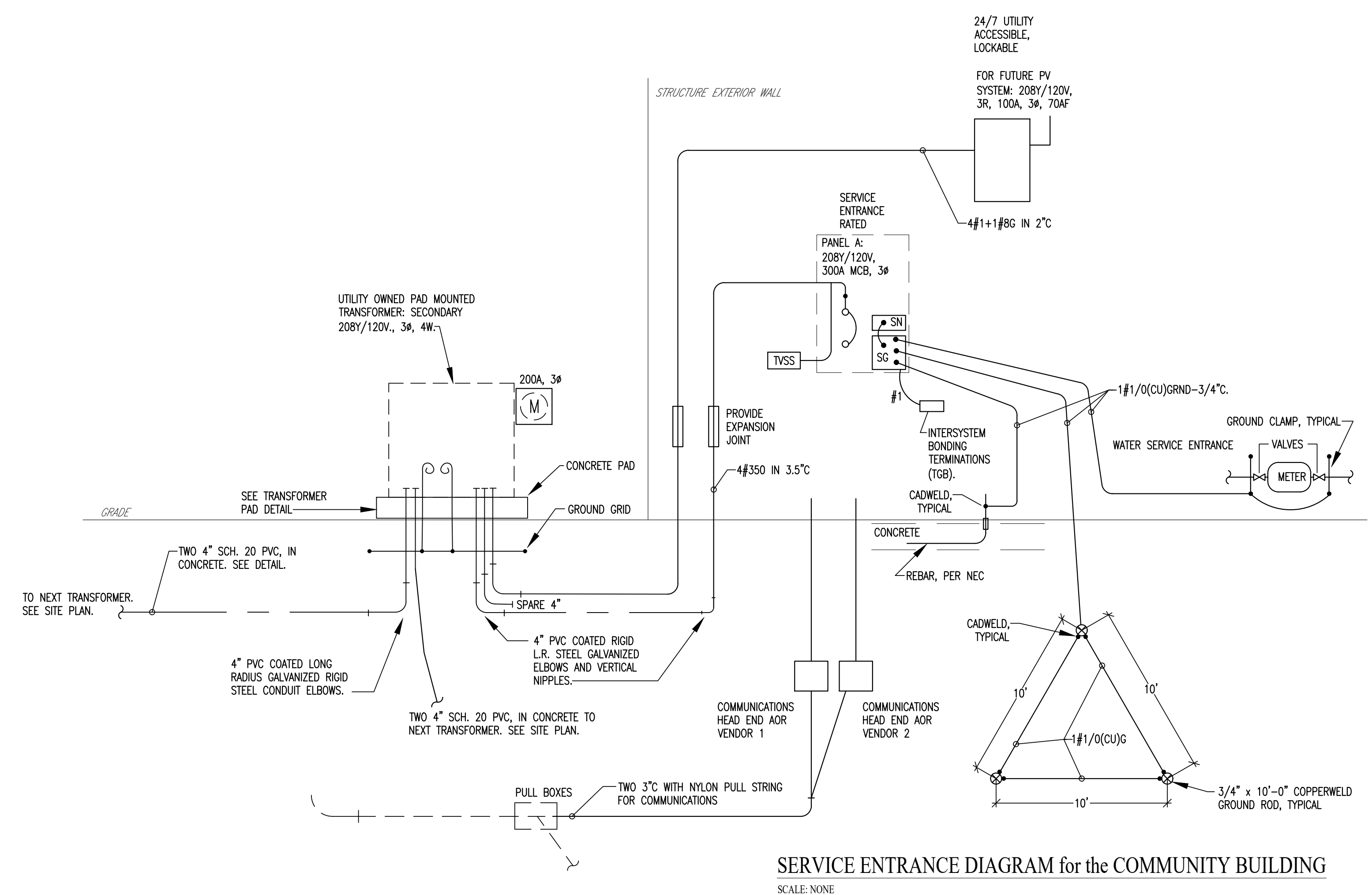
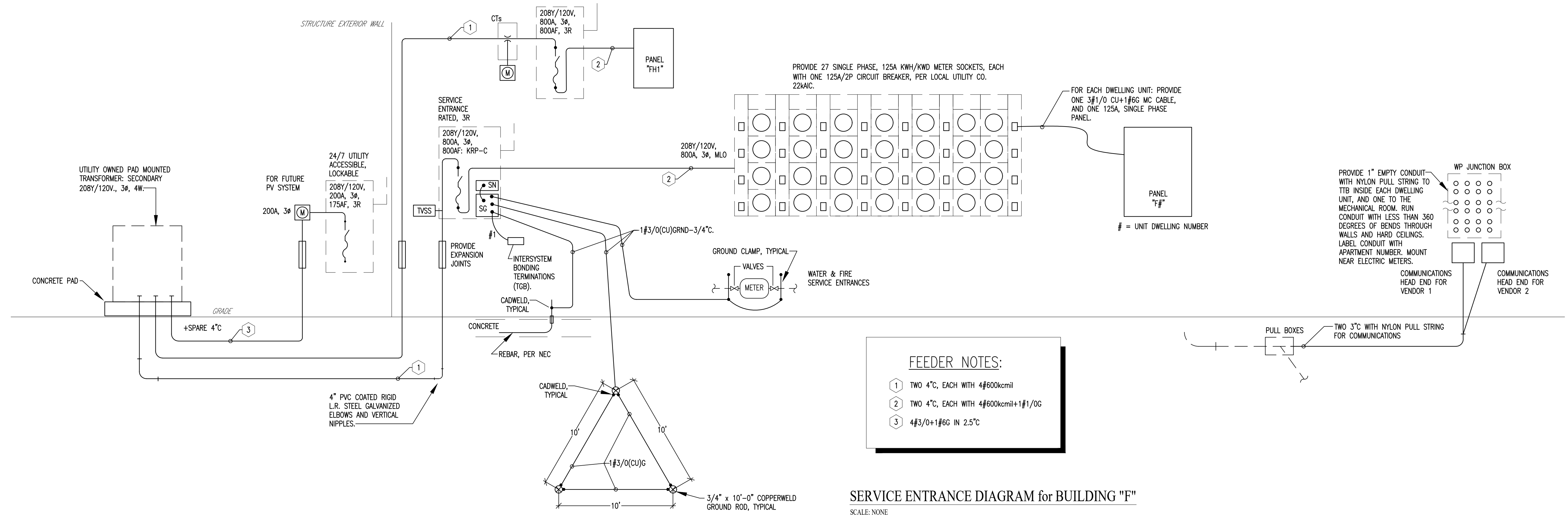
SHEET CONTENTS:

One-Line Diagram for the Site and Service Entrance Diagram for Building E

PROJECT # 1420  
 DATE: 9/22/2020  
 REVISED DATE:  
 REVISED: 02/16/2021

**E0.2**

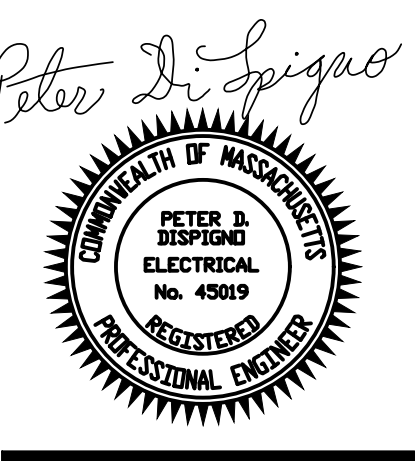
CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021



**TRINITY ENGINEERING RI**  
 11 Briggs Road  
 Foster RI 02825  
 Tel: 401.500.2538  
 Fax: 401.397.6428  
 pdts@trinityeng.com

**Ed Wojcik**  
 architect, ltd  
 One Richmond Square  
 Providence, RI 02906  
 401-861-7139

Proposed Design for:  
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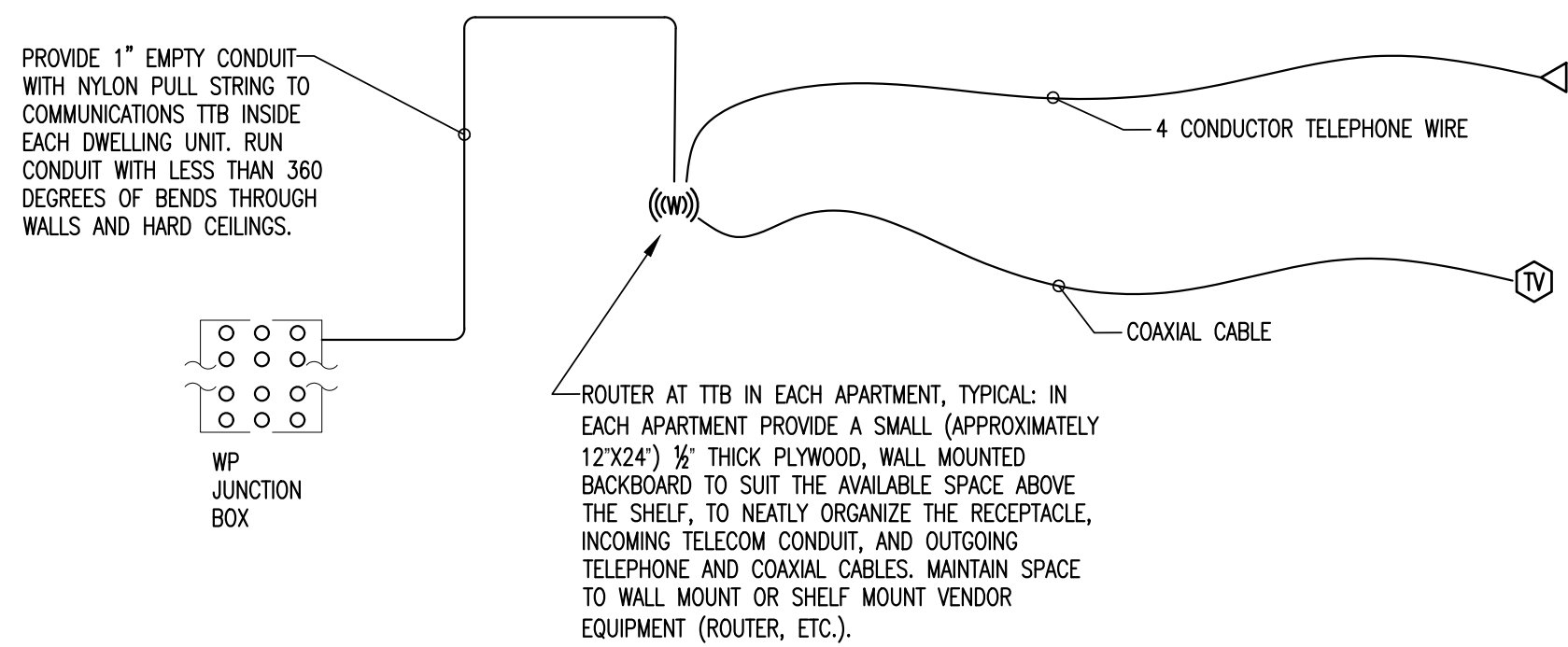


SHEET CONTENTS:  
 Service Entrances for  
 Building F and the  
 Community Building

PROJECT # 1420  
 DATE: 9/22/2020  
 REVISED DATE:  
 REVISED: 02/16/2021

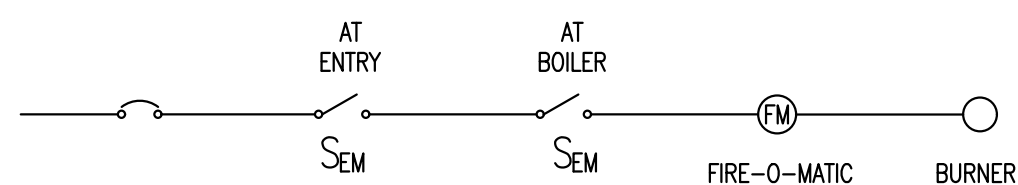
**E0.3**

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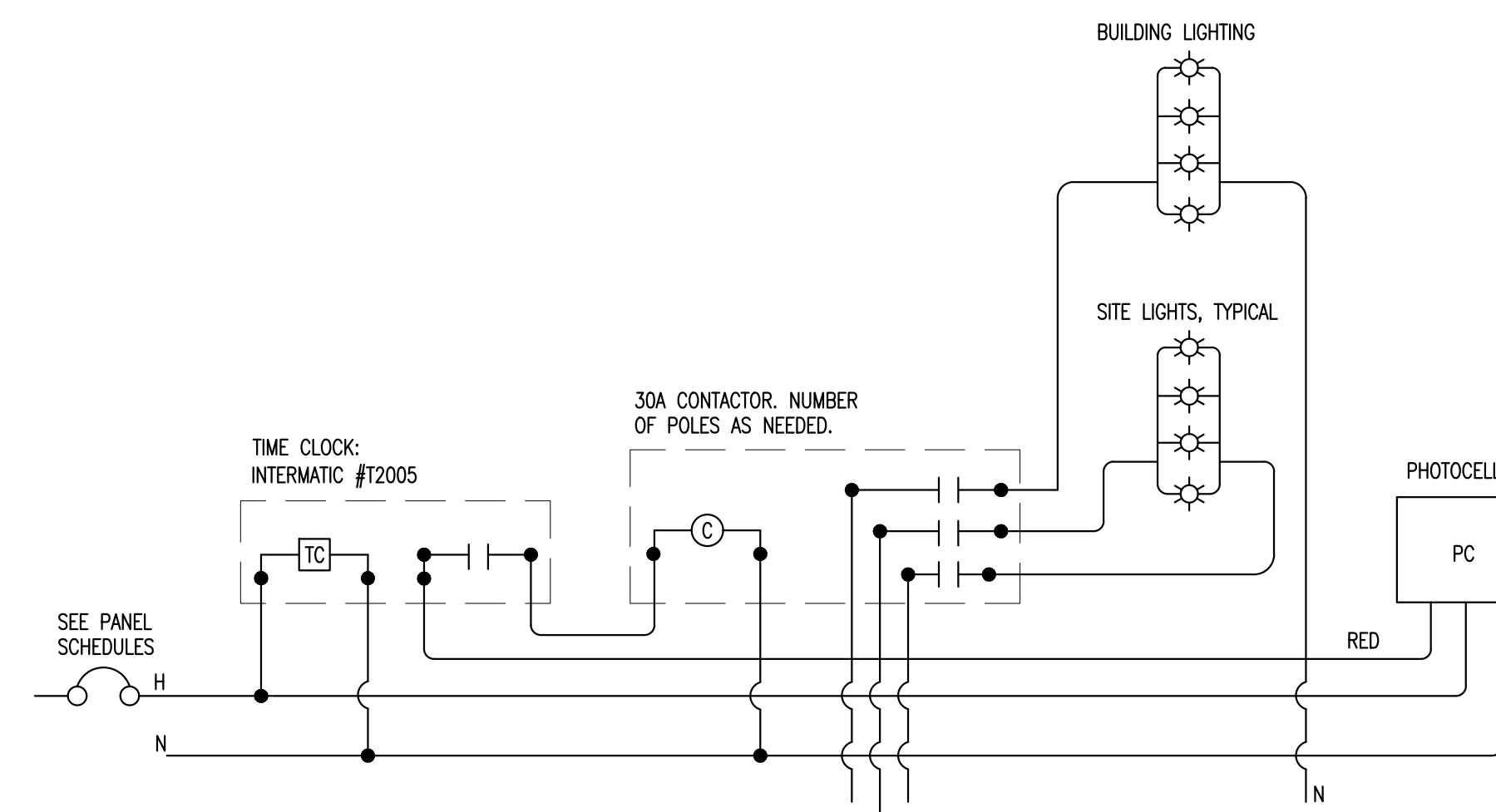
TYPICAL COMMUNICATIONS DETAIL

NTS



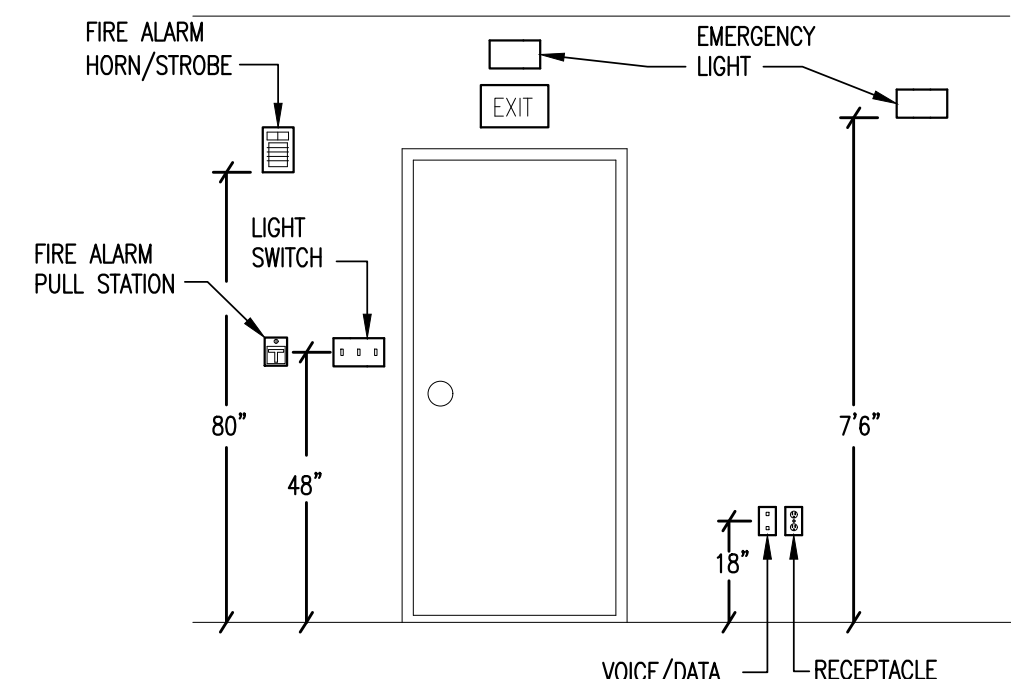
BOILER BURNER WIRING DIAGRAM

NTS



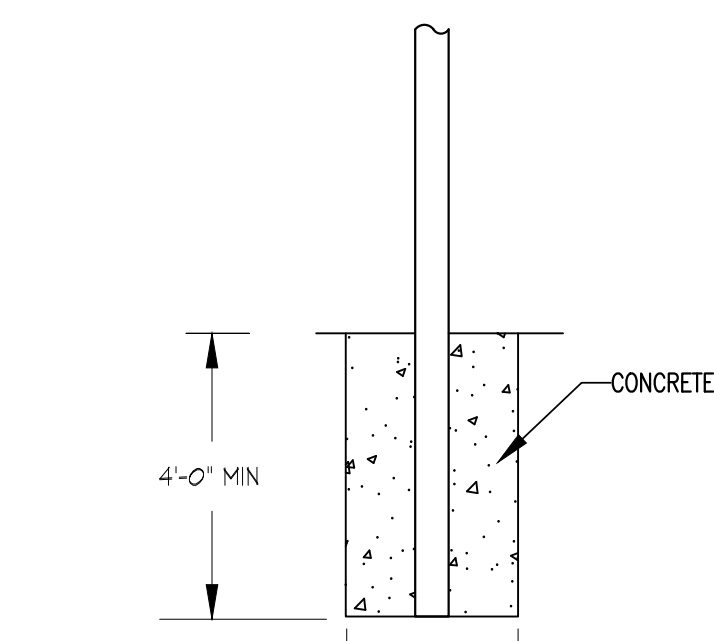
TIMECLOCK/PHOTOCELL DETAIL, TYPICAL of TWO

NTS



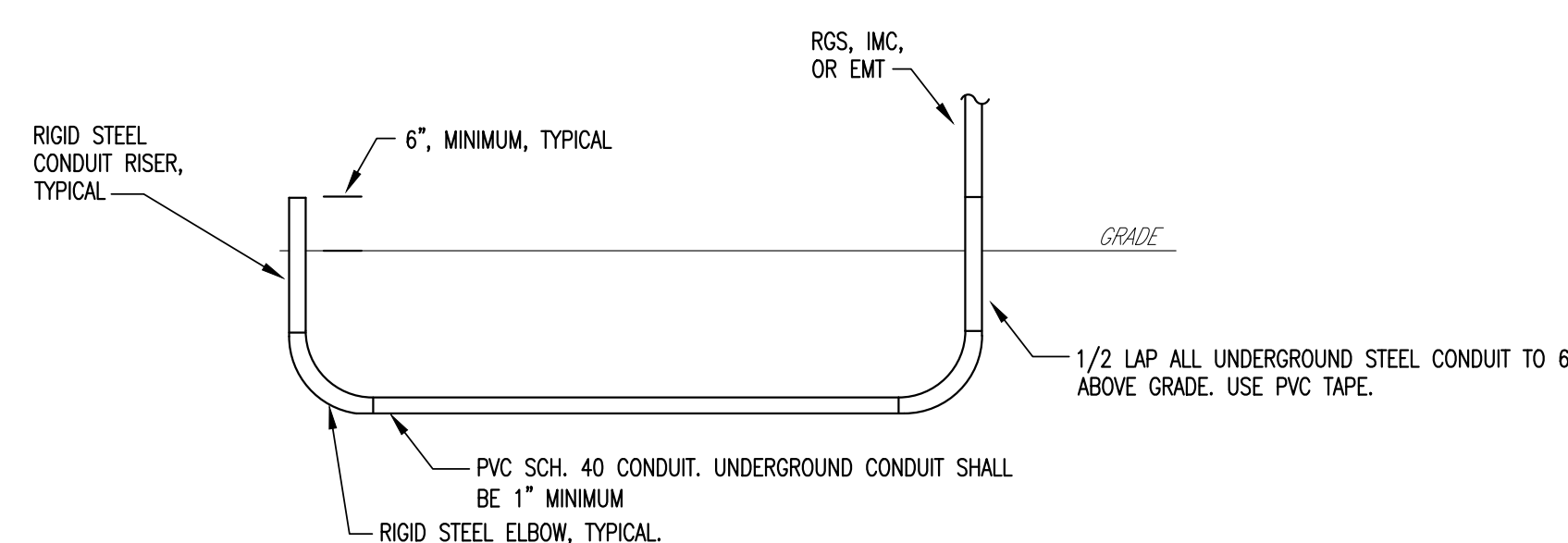
TYPICAL MOUNTING HEIGHTS

NTS



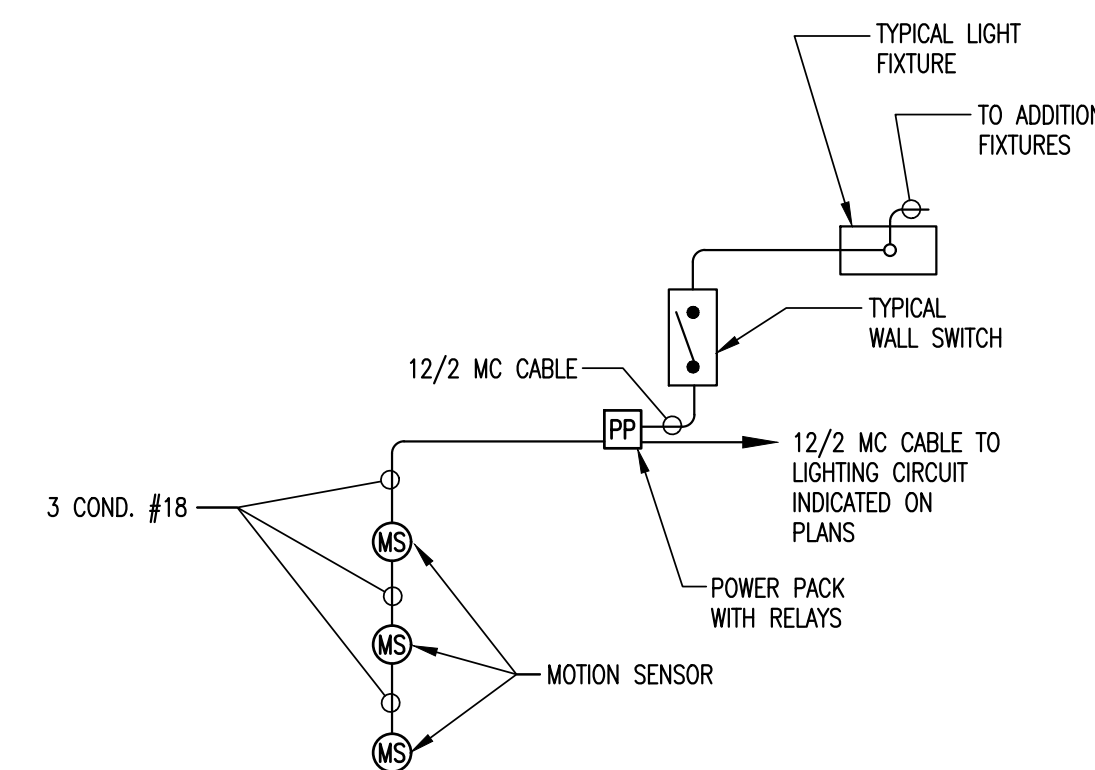
LIGHTING POLE BASE DETAIL

NTS



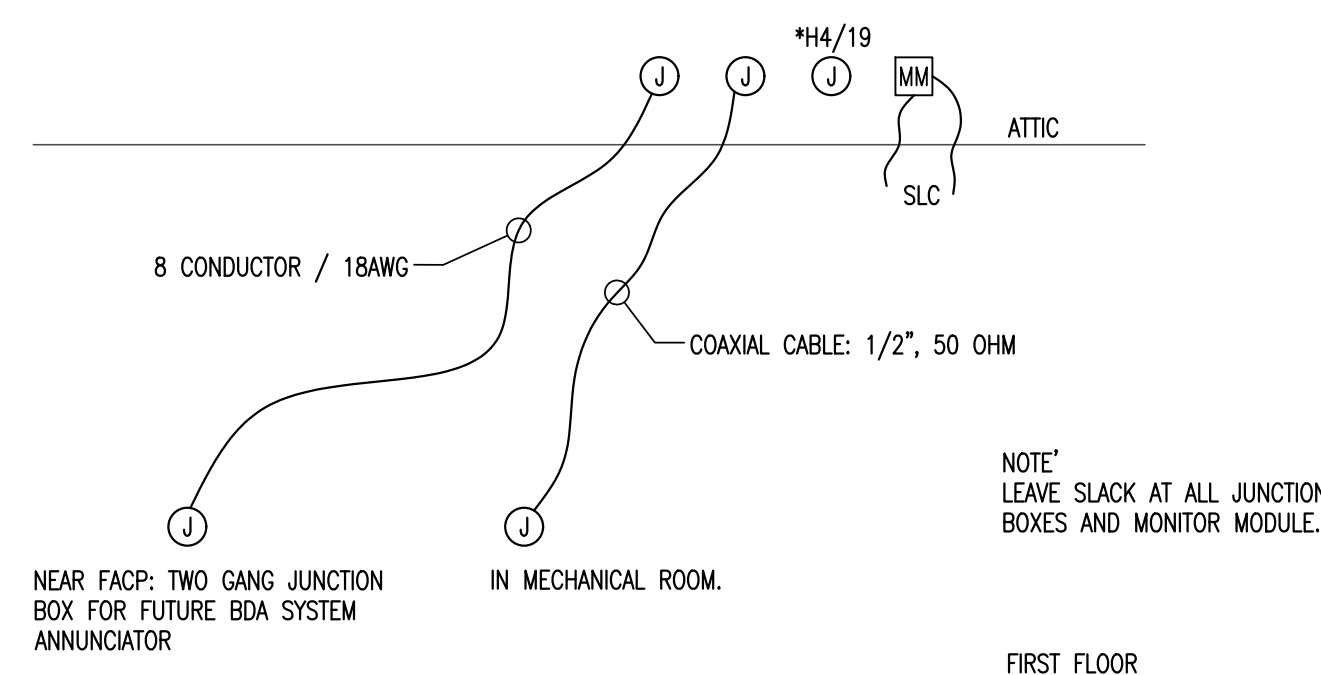
UNDERGROUND CONDUIT DETAIL, TYPICAL

NTS



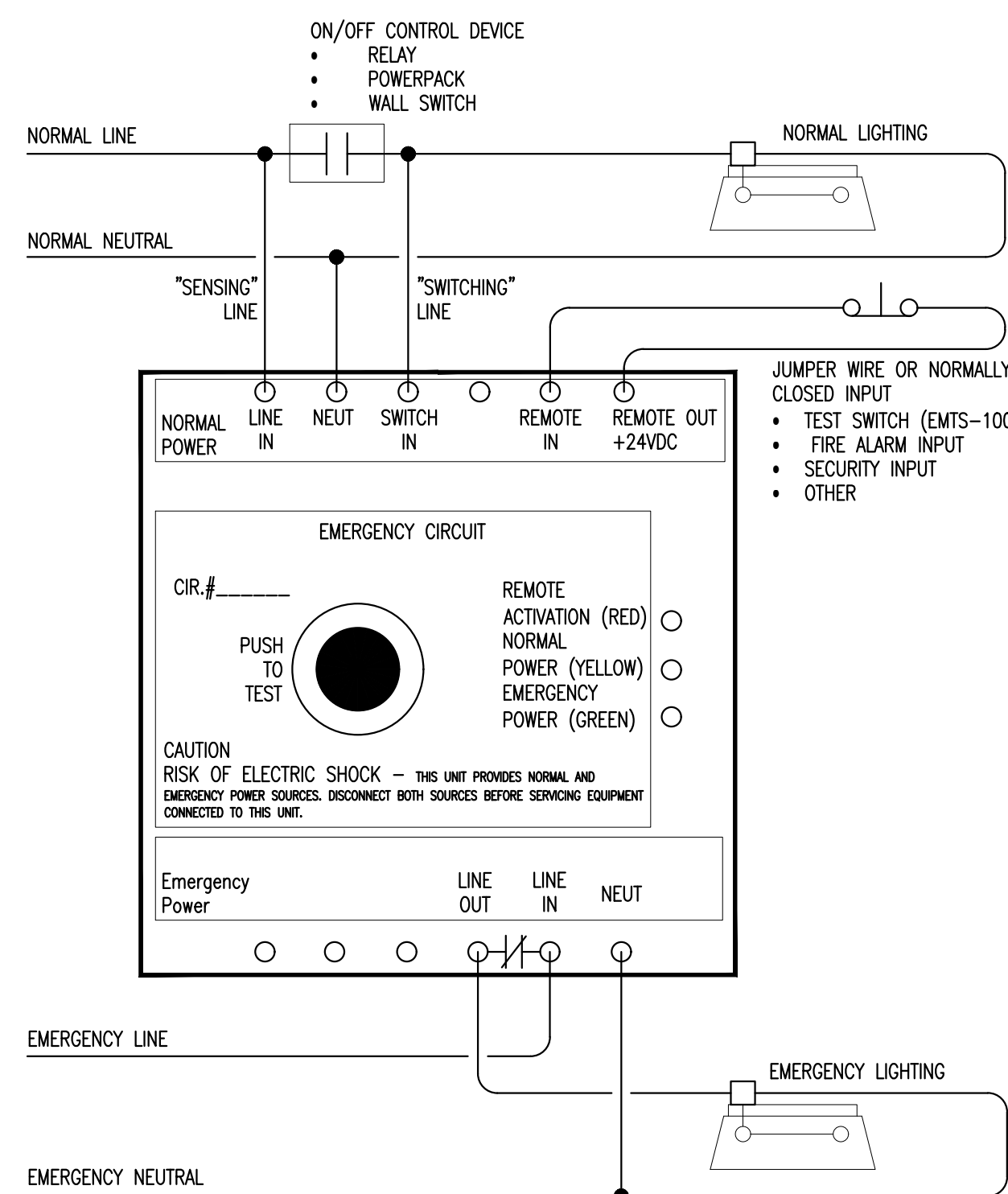
TYPICAL MOTION SENSOR WIRING SCHEMATIC

NTS



BI-DIRECTIONAL ANTENNA ROUGH-IN DETAIL, TYPICAL of TWO

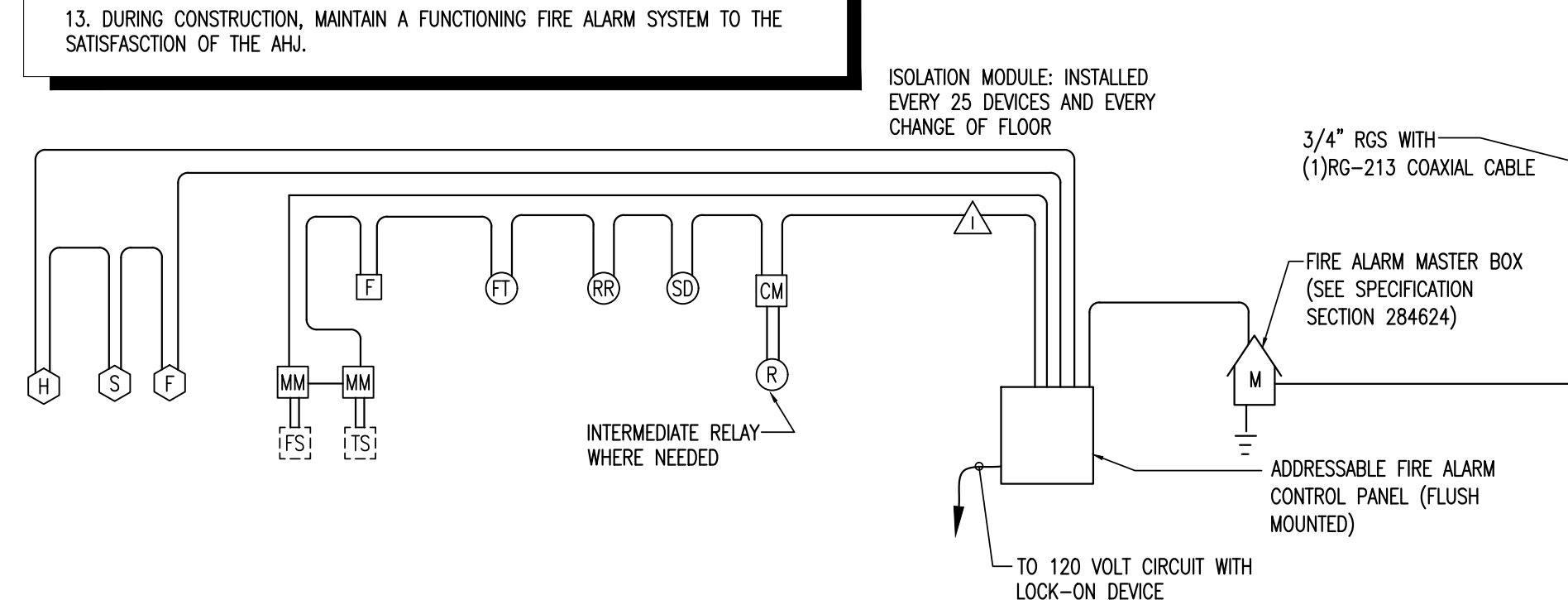
NTS



EMERGENCY LIGHTING CONTROL SCHEMATIC

NTS

- FIRE ALARM SYSTEM NOTES:**
1. ALL WIRING SHALL BE PER MANUFACTURER'S SPECIFICATIONS.
  2. THIS SCHEMATIC IS TYPICAL. WIRE TO ALL DEVICES ON ALL ZONES AND CIRCUITS. SEE PLAN VIEWS FOR TYPES AND QUANTITIES OF DEVICES.
  3. ALL FIRE ALARM WIRING SHALL BE RUN CONTINUOUS FROM DEVICE TO DEVICE.
  4. OUTGOING AND RETURN CONDUCTORS MUST BE RUN IN SEPARATE RACEWAYS.
  5. PROVIDE ANY ADDITIONAL REMOTE POWER SUPPLIES AS NECESSARY. PROVIDE ADDITIONAL SMOKE DETECTORS AS NECESSARY PER NFPA.
  6. PROVIDE HARDWARE AND PROGRAMMING SUCH THAT, DURING ALARM, ALL HVAC UNITS WITH CFM >2000 WILL BE SHUTDOWN.
  7. PROVIDE INTERMEDIATE RELAYS AS NEEDED.
  8. SYNCHRONIZE ALL STROBE LIGHTS.
  9. VERIFY WIRING TYPE FOR INITIATING LOOP.
  10. WHEN CONNECTING AN ADDRESSABLE MODULE TO MONITOR A CONVENTIONAL SMOKE DETECTOR, A SEPARATE 24 VOLT POWER SOURCE, ORIGINATING FROM THE FIRE ALARM PANEL, MAY BE REQUIRED.
  11. VERIFY ADDITIONAL WIRING (e.g. 24V POWER FOR MODULES) WITH SPECIFIED MANUFACTURER.
  12. NOTIFY OWNER, FIRE DEPARTMENT, AND POLICE DEPARTMENT PRIOR TO EXECUTING ANY WORK ON THE FIRE ALARM SYSTEM.
  13. DURING CONSTRUCTION, MAINTAIN A FUNCTIONING FIRE ALARM SYSTEM TO THE SATISFACTION OF THE AHJ.



FIRE ALARM SYSTEM SCHEMATIC, TYPICAL of THREE

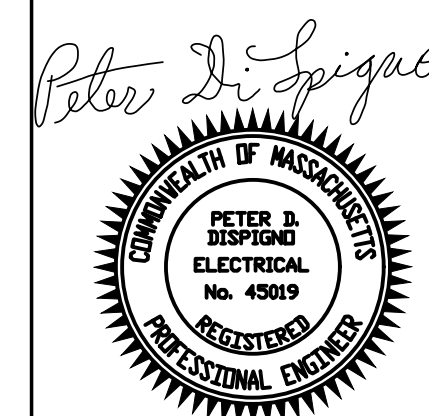
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TRINITY ENGINEERING RI  
11 Briggs Road  
Foster RI 02895  
Tel: 401.500.2538  
Fax: 401.397.6428  
patispiro@msn.com



**Ed Wojcik**  
architect, ltd  
One Richmond Square  
Providence, RI 02906  
401-861-7139

Proposed Design for:  
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SHEET CONTENTS:  
Fire Alarm System  
Schematic  
and Details

PROJECT # 1420  
DATE: 9/22/2020  
REVISED DATE:  
REVISID: 02/16/2021

**E0.4**

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ELECTRICAL CONNECTION SCHEDULE FOR MECHANICAL EQUIPMENT IN BUILDING E

MECH (ID#)	DESCRIPTION	EQUIPMENT CHARACTERISTICS								PANEL	CIRCUIT	BREAKER SIZE	FEEDER AND CONDUIT	EQUIPMENT LOCATION	DISCONNECT SWITCH				MOTOR CONTROL	NOTES
		VOLTS	PH	AMPS	HP	KW	MCA	MOCP	CAM						SIZE	AUSE	POLES	NEMA		
1	CU-1.1E/1	208	3	-	-	-	40	60	-	EH1	1,3,5	60	4#4+1#8G IN 1.25°C	-	60	60	3	3R		
2	CU-1.1E/2	208	3	-	-	-	40	60	-	EH1	7,9,11	60	4#4+1#8G IN 1.25°C	-	60	60	3	3R		
3	CU-1.1E/3	208	3	-	-	-	40	60	-	EH1	13,15,17	60	4#4+1#8G IN 1.25°C	-	60	60	3	3R		
4	CU-1.2E/1	208	3	-	-	-	40	60	-	EH1	19,21,23	60	4#4+1#8G IN 1.25°C	-	60	60	3	3R		
5	CU-1.2E/2	208	3	-	-	-	40	60	-	EH1	25,27,29	60	4#4+1#8G IN 1.25°C	-	60	60	3	3R		
6	CU-1.2E/3	208	3	-	-	-	40	60	-	EH1	31,33,35	60	4#4+1#8G IN 1.25°C	-	60	60	3	3R		
7	ERV-0.1E	208	3	-	-	-	68.6	70	2,4,4	EH1	37,39,41	90	4#2+1#8G IN 1.5°C	ROOF	100	70	3	3R		
10	HP-1.0E	208	1	-	-	-	13	15	425	EH2	1,3	20	3#12+1#12G IN 1/2°C	ROOF	30	15	2	3R		5
8A	EHU-0.1E	208	3	9	-	3	-	-	250	EH4	25,27,29	20	4#12+1#12G IN 1/2°C	---	30	15	3	1		
8B	EHU-0.2E	208	3	9	-	3	-	-	250	EH4	19,21,23	20	4#12+1#12G IN 1/2°C	---	30	15	3	1		
8A	EHU-0.3E	208	3	6	-	2	-	-	-	EH4	10,12,14	20	4#12+1#12G IN 1/2°C	---	30	10	3	1		
8B	EHU-0.4E	208	3	6	-	2	-	-	-	EH4	10,12,14	-	4#12+1#12G IN 1/2°C	---	30	10	3	1		
19	EHU-0.5E	208	3	49.4	-	17.8	-	-	800	EH1	8,10,12	70	4#4+1#10G IN 1.25°C	---	100	70	3	1		

13	EHU-0.6E	208	1	11.3	-	1.9	-	-	-	EH2	5,7	20	3#12+1#12G IN 1/2°C	---	NA	NA	NA	NA		1
12A	EHU-1.1E	208	1	5.4	-	1.12	-	-	-	EHS	1,3	20	3#12+1#12G IN 1/2°C	---	NA	NA	NA	NA		1
12B	EHU-1.2E	208	1	5.4	-	1.12	-	-	-	EHS	1,3	-	3#12+1#12G IN 1/2°C	---	NA	NA	NA	NA		1
12C	EHU-1.8E	208	1	5.4	-	1.12	-	-	-	EHS	5,7	20	3#12+1#12G IN 1/2°C	---	NA	NA	NA	NA		1
12D	EHU-1.9E	208	1	5.4	-	1.12	-	-	-	EHS	5,7	-	3#12+1#12G IN 1/2°C	---	NA	NA	NA	NA		1
12E	EHU-1.10E	208	1	5.4	-	1.12	-	-	-	EHS	9,11	20	3#12+1#12G IN 1/2°C	---	NA	NA	NA	NA		1
12F	EHU-1.11E	208	1	5.4	-	1.12	-	-	-	EHS	9,11	-	3#12+1#12G IN 1/2°C	---	NA	NA	NA	NA		1
12G	EHU-1.17E	208	1	5.4	-	1.12	-	-	-	EHS	13,15	20	3#12+1#12G IN 1/2°C	---	NA	NA	NA	NA		1
12H	EHU-1.18E	208	1	5.4	-	1.12	-	-	-	EHS	13,15	-	3#12+1#12G IN 1/2°C	---	NA	NA	NA	NA		1
12I	EHU-1.19E	208	1	5.4	-	1.12	-	-	-	EHS	17,19	20	3#12+1#12G IN 1/2°C	---	NA	NA	NA	NA		1
12J	EHU-1.20E	208	1	5.4	-	1.12	-	-	-	EHS	17,19	-	3#12+1#12G IN 1/2°C	---	NA	NA	NA	NA		1
12K	EHU-1.26E	208	1	5.4	-	1.12	-	-	-	EHS	21,23	-	3#12+1#12G IN 1/2°C	---	NA	NA	NA	NA		1
12L	EHU-1.27E	208	1	5.4	-	1.12	-	-	-	EHS	21,23	-	3#12+1#12G IN 1/2°C	---	NA	NA	NA	NA		1
12M	EHU-1.28E	208	1	5.4	-	1.12	-	-	-	EHS	25,27	20	3#12+1#12G IN 1/2°C	---	NA	NA	NA	NA		1
12N	EHU-1.29E	208	1	5.4	-	1.12	-	-	-	EHS	25,27	-	3#12+1#12G IN 1/2°C	---	NA	NA	NA	NA		1
12O	EHU-1.35E	208	1	5.4	-	1.12	-	-	-	EHS	29,31	20	3#12+1#12G IN 1/2°C	---	NA	NA	NA	NA		1
12P	EHU-1.36E	208	1	5.4	-	1.12	-	-	-	EHS	29,31	-	3#12+1#12G IN 1/2°C	---	NA	NA	NA	NA		1

11	AC-1.#E	208	1	-	-	-	1.6	15	<600	EH*	*	15	3#14+1#14G IN MC	---	NA	NA	NA	NA		3
14	SF-0.1E	120	1	5.8	0.25	-	-	-	-	EH2	9	20	2#12+1#12G IN 1/2°C	---	NA	NA	NA	NA		1,2
15	AC-0.#E	208	1	-	-	-	0.25	15	300	EH4	18,20	15	3#12+1#14G IN MC	---	NA	NA	NA	NA		1
16	E.1	120	1	-	-	-	-	-	-	EH2	37	20	2#12+1#12G IN 1/2°C	---	NA	NA	NA	NA		4
17	E.2	120	1	-	-	-	-	-	-	EH2	39	20	2#12+1#12G IN 1/2°C	---	NA	NA	NA	NA		4
18	HWR-2	120	1	4	0.125	-	-	-	-	EH2	18	20	2#12+1#12G IN 1/2°C	---	NA	NA	NA	NA		2
SP2	SUMP PUMP	120	1	9.8	0.5	1.18	-	-	-	EH2	31	20	2#12+1#12G IN 1/2°C	---	NA	NA	NA	NA		2
20	ELEVATOR	208	3	47	15	17	-	-	-	EH1	2,4,6	100	4#1+1#8G IN 2°C	---	100	100	3	1		
21	VEHICLE CHARGING STATION	208	1	30	-	6.5	-	-	-	EH4	22,24	50	4#6+1#10G IN 1.25°C	---	-	-	-	-		6
22	LIFT STATION	208	3	-	-	-	-	-	-	EH2				---	-	-	-	-		6

- NOTES:  
 1. CONFIRM THAT 2 POLE POSITIVE OFF THERMOSTAT IS PROVIDED WITH UNIT, AND WIRED BY THE ELECTRICAL CONTRACTOR.  
 2. PROVIDE A MANUAL MOTOR STARTER, WITH OVERLOAD ELEMENT(S) SIZED PER THE LOAD SERVED.  
 3. PROVIDE A TWO POLE MEANS OF DISCONNECT AT UNIT.  
 4. SEE BOILER BURNER WIRING DIAGRAM.  
 5. PROVIDE PIN & SOCKET CONNECTOR (TYCO 770275 SERIES PLUG & RECEPTACLE) FOR MANUAL DISCONNECTING MEANS OF INDOOR UNIT, WHICH IS POWERED BY THE OUTDOOR UNIT.  
 PROVIDE 5#14 IN 1/2°C FROM OUTDOOR UNIT TO INDOOR UNIT.  
 # = DWELLING UNIT NUMBER  
 \* = PER PANEL SCHEDULES  
 6. COORDINATE LOCATION WITH CIVIL DRAWINGS.

ELECTRICAL CONNECTION SCHEDULE FOR MECHANICAL EQUIPMENT IN BUILDING F

MECH (ID#)	DESCRIPTION	EQUIPMENT CHARACTERISTICS								PANEL	CIRCUIT	BREAKER SIZE	FEEDER AND CONDUIT	EQUIPMENT LOCATION	DISCONNECT SWITCH				MOTOR CONTROL	NOTES
		VOLTS	PH	FMPs	HP	KW	MCF	MOCP	CFM						SIZE	FUSE	POLES	NEMA		
1	CU-1.1F/1	208	3	-	-	-	40	60	-	FH1	1,3,5	60	4#4+1#8G IN 1.25°C	ROOF	60	60	3	3R		
2	CU-1.1F/2	208	3	-	-	-	31	45	-	FH1	7,9,11	60	4#4+1#8G IN 1.25°C	---	60	45	3	3R		
3	CU-1.1F/3	208	3	-	-	-	23	35	-	FH1	13,15,17	60	4#4+1#8G IN 1.25°C	---	60	35	3	3R		
4	CU-1.2F/1	208	3	-	-	-	40	60	-	FH1	19,21,23	60	4#4+1#8G IN 1.25°C	---	60	60	3	3R		
5	CU-1.2F/2	208	3	-	-	-	31	45	-	FH1	25,27,29	60	4#4+1#8G IN 1.25°C	---	60	45	3	3R		
6	CU-1.2F/3	208	3	-	-	-	23	35	-	FH1	31,33,35	60	4#4+1#8G IN 1.25°C	---	60	35	3	3R		
7	ERV-0.1F	208	3	-	2.56	-	68.6	70	1,830	FH1	37,39,41	90	4#2+1#8G IN 1.5°C	ROOF	100	70	3	3R		
10	HP-1.0F	208	1	-	-	-	13	15	425	FH2	1,3	20	3#12+1#12G IN 1/2°C	ROOF	30	15	2	3R		5
8A	EHU-0.1F	208	3	9	-	3	-	-	250	FH4	25,27,29	20	4#12+1#12G IN 1/2°C	---	30	15	3	1		
8B	EHU-0.2F	208	3	9	-	3	-	-	250	FH4	19,21,23	20	4#12+1#12G IN 1/2°C	---	30	15	3	1		
8A	EHU-0.3F	208	3	6	-	2	-	-	-	FH4	10,12,14	20	4#12+1#12G IN 1/2°C	---	30	10	3	1		
8B	EHU-0.4F	208	3	6	-	2	-	-	-	FH4	10,12,14	-	4#12+1#12G IN 1/2°C	---	30	10	3	1		
19	EHU-0.5F	208	3	27.4	-	13.3	-	-	600	FH2	32,34,36	40	4#8+1#10G IN 1°C	---	60	40	3	1		

13	EHU-0.6F	208	1	11.3	-	1.9	-	-	-	FH2	5,7	20	3#12+1#12G IN 1/2°C	---	NA	NA	NA	NA		1
12A	EHU-1.1F	208	1	5.4	-	1.12	-	-	-	FH5	1,3	20	3#12+1#12G IN 1/2°C	---	NA	NA	NA	NA		1
12B	EHU-1.2F	208	1	5.4	-	1.12	-	-	-	FH5	1,3	-	3#12+1#12G IN 1/2°C	---	NA	NA	NA	NA		1
12C	EHU-1.8F	208	1	5.4	-	1.12	-	-	-	FH5	5,7	20	3#12+1#12G IN 1/2°C	---	NA	NA	NA	NA		1
12D	EHU-1.9F	208	1	5.4	-	1.12	-	-	-	FH5	5,7	-	3#12+1#12G IN 1/2°C	---	NA	NA	NA	NA		1
12E	EHU-1.10F	208	1	5.4	-	1.12	-	-	-	FH5	9,11	20	3#12+1#12G IN 1/2°C	---	NA	NA	NA	NA		1
12F	EHU-1.11F	208	1	5.4	-	1.12	-	-	-	FH5	9,11	-	3#12+1#12G IN 1/2°C	---	NA	NA	NA	NA		1
12G	EHU-1.17F	208	1	5.4	-	1.12	-	-	-	FH5	13,15	20	3#12+1#12G IN 1/2°C	---	NA	NA	NA	NA		1
12H	EHU-1.18F	208	1	5.4	-	1.12	-	-	-	FH5	13,15	-	3#12+1#12G IN 1/2°C	---	NA	NA	NA	NA		1
12I	EHU-1.19F	208	1	5.4	-	1.12	-	-	-	FH5	17,19	20	3#12+1#12G IN 1/2°C	---	NA	NA	NA	NA		1
12J	EHU-1.20F	208	1	5.4	-	1.12	-	-	-	FH5	17,19	-	3#12+1#12G IN 1/2°C	---	NA	NA	NA	NA		1
12K	EHU-1.26F	208	1	5.4	-	1.12	-	-	-	FH5	21,23	20	3#12+1#12G IN 1/2°C	---	NA	NA	NA	NA		1
12L	EHU-1.27F	208	1	5.4	-	1.12	-	-	-	FH5	21,23	-	3#12+1#12G IN 1/2°C	---	NA	NA	NA	NA		1

11	AC-1.#F	208	1	-	-	-	<2.8	15	<880	FH*	*	15	3#14+1#14G IN MC	---	NA	NA	NA	NA		3
14	SF-0.1F	120	1	5.8	0.25	-	-	-	-	FH2	9	20	2#12+1#12G IN 1/2°C	---	NA	NA	NA	NA		1,2
15	FC-0.#F	208	1	-	-	-	0.25	15	300	FH4	18,20	15	3#12+1#14G IN MC	---	NA	NA	NA	NA		1
16	F.1	120	1	-	-	-	-	-	-	FH2	37	20	2#12+1#12G IN 1/2°C	---	NA	NA	NA	NA		4
17	F.2	120	1	-	-	-	-	-	-	FH2	39	20	2#12+1#12G IN 1/2°C	---	NA	NA	NA	NA		4
18	HWR-1	120	1	4	0.125	-	-	-	-	FH2	18	20	2#12+1#12G IN 1/2°C	---	NA	NA	NA	NA		

PANEL: EH1		800 A 208Y/120 V 3PH 4W 60HZ		SHUNT TRIP MAIN											
10,000 AIC CIRCUITS: 42 BUS RATING:		MAIN LUG ONLY <input checked="" type="checkbox"/> MAIN CIRCUIT BREAKER <input checked="" type="checkbox"/> SURFACE MOUNTED <input checked="" type="checkbox"/> FLUSH MOUNTED <input type="checkbox"/> FLOOR MOUNTED <input type="checkbox"/>		NOTE A AFCI G GFCI - 5mA TRIP P GFPE - 30 mA TRIP S SHUNT TRIP L LOCK ON IG ISOLATED GROUND C VIA LIGHTING CONTROL PANEL											
CKT No.	Load Type	LOAD DESCRIPTION	Note	WIRE SIZE	LOAD KVA	CIRCUIT BREAKER	CKT No.	Load Type	LOAD DESCRIPTION	Note	WIRE SIZE	LOAD KVA	CIRCUIT BREAKER		
1	M	CU-1.1E/1	4	14.5		1	2	M	ELEVATOR	1	17				
3	M	-	4				4	M	-	1					
5	M	-	4				6	M	-	1					
7	M	CU-1.1E/2	4	14.5		1	8	M	EHU-0.9E (19)	4	17.8		1		
9	M	-	4				10	M	-	4					
11	M	-	4				12	M	-	4					
13	M	CU-1.1E/3	4	14.5		1	14	M	SPACE						
15	M	-	4				16	M	SPACE						
17	M	-	4				18	M	SPACE						
19	M	CU-1.2E/1	4	14.5		1	20	M	PANEL EHG	1/0	18		1		
21	M	-	4				22	M	-	1/0					
23	M	-	4				24	M	-	1/0					
25	M	CU-1.2E/2	4	14.5		1	26	M	PANEL EHG	4	6		1		
27	M	-	4				28	M	-	4					
29	M	-	4				30	M	-	4					
31	M	CU-1.1E/3	4	14.5		1	32	M	PANEL EHG	1/0	30		1		
33	M	-	4				34	M	-	1/0					
35	M	-	4				36	M	-	1/0					
37	M	ERV-1E	2	21.6		1	38	M	PANEL EHG	1	21		1		
39	M	-	2				40	M	-	1					
41	M	-	2				42	M	-	1					
LOAD TYPE						Connected Load 218.4 KVA						CIRCUIT BREAKER SIZE			
R	Receptacle Load		0.0 KVA	Noncontinuous		0.0 KVA	CIRCUIT BREAKER SIZE		201	152		201		0	
L	Lighting Load		0.0 KVA	Continuous		0.0 KVA	CIRCUIT BREAKER COUNT		0	0		7		1	
M	Mechanical and Power Load		218.4 KVA	Noncontinuous		218.4 KVA	CIRCUIT BREAKER COUNT		0	0		2		2	
TOTAL LOAD 218.4 KVA						AMPERAGE: 606 AMP									

PANEL: EH2		150 A 208Y/120 V 3PH 4W 60HZ		SHUNT TRIP MAIN											
10,000 AIC CIRCUITS: 42 BUS RATING:		MAIN LUG ONLY <input checked="" type="checkbox"/> MAIN CIRCUIT BREAKER <input checked="" type="checkbox"/> SURFACE MOUNTED <input checked="" type="checkbox"/> FLUSH MOUNTED <input type="checkbox"/> FLOOR MOUNTED <input type="checkbox"/>		NOTE A AFCI G GFCI - 5mA TRIP P GFPE - 30 mA TRIP S SHUNT TRIP L LOCK ON IG ISOLATED GROUND C VIA LIGHTING CONTROL PANEL											
1	M	HP-1.0E	12	3.6		1	2	M	UNIT 21 AC*	14	0.24	1			
3	M	-	12				4	M	-	14					
5	M	EHU-0.9E (13)	12	1.9		1	6	M	UNIT 22 AC*	14	0.24	1			
7	M	-	12				8	M	-	14					
9	M	SF-0.1E (14)	12	0.7		1	10	M	UNIT 23 AC*	14	0.24	1			
11	M	-	12				12	M	-	14					
13	M	-	12				14	M	UNIT 24 AC*	14	0.24	1			
15	M	-	12				16	M	-	14					
17	M	UNIT 25 AC*	14	0.24		1	18	M	HWR2 (18)	12	0.5	1			
19	M	-	14				20	R	CORRIDOR REC.	12	1.62	1			
21	M	UNIT 26 AC*	14	0.24		1	22	R	STAIR REC.	12	1.62	1			
23	M	-	14				24	R	REC. ON ROOF	12	0.54	1			
25	M	UNIT 27 AC*	14	0.24		1	26	M	SPARE						
27	M	-	14				28	M	-						
29	R	LAUNDRY REC.	12	0.36		1	30	M	-						
31	M	SUMP PUMP	12	1		1	32	M	SPARE					1	
33	M	-	12				34	M	-						
35	M	-	12				36	M	SPARE						
37	M	E-1	12	0.3		1	38	M	SPARE						
39	M	E-2	12	0.3		1	40	L	COMMON AREA LIGHTING	12	1	1			
41	M	FACP+NAC	12	0.8		1	42	L	COMMON AREA LIGHTING	12	1	1			
LOAD TYPE						Connected Load 16.9 KVA						CIRCUIT BREAKER SIZE			
R	Receptacle Load		4.1 KVA	Noncontinuous		4.1 KVA	CIRCUIT BREAKER SIZE		152	152		201		0	
L	Lighting Load		2.0 KVA	Continuous		2.5 KVA	CIRCUIT BREAKER COUNT		7	19		2		1	
M	Mechanical and Power Load		10.8 KVA	Noncontinuous		10.8 KVA	CIRCUIT BREAKER COUNT		1	1		0		0	
TOTAL LOAD 17.4 KVA						AMPERAGE: 48 AMP									

PANEL: EH3		60 A 208Y/120 V 3PH 4W 60HZ		SHUNT TRIP MAIN											
10,000 AIC CIRCUITS: 42 BUS RATING:		MAIN LUG ONLY <input checked="" type="checkbox"/> MAIN CIRCUIT BREAKER <input checked="" type="checkbox"/> SURFACE MOUNTED <input checked="" type="checkbox"/> FLUSH MOUNTED <input type="checkbox"/> FLOOR MOUNTED <input type="checkbox"/>		NOTE A AFCI G GFCI - 5mA TRIP P GFPE - 30 mA TRIP S SHUNT TRIP L LOCK ON IG ISOLATED GROUND C VIA LIGHTING CONTROL PANEL											
1	M	UNIT 1 AC*	14	0.24		1	2	M	UNIT 11 AC*	14	0.24	1			
3	M	-	14				4	M	-	14					
5	M	UNIT 2 AC*	14	0.24		1	6	M	UNIT 12 AC*	14	0.24	1			
7	M	-	14				8	M	-	14					
9	M	UNIT 3 AC*	14	0.24		1	10	M	UNIT 13 AC*	14	0.24	1			
11	M	-	14				12	M	-	14					
13	M	UNIT 4 AC*	14	0.24		1	14	M	UNIT 14 AC*	14	0.24	1			
15	M	-	14				16	M	-	14					
17	M	UNIT 5 AC*	14	0.24		1	18	M	UNIT 15 AC*	14	0.24	1			
19	M	-	14				20	M	-	14					
21	M	UNIT 6 AC*	14	0.24		1	22	M	UNIT 16 AC*	14	0.24	1			
23	M	-	14				24	M	-	14					
25	M	UNIT 7 AC*	14	0.24		1	26	M	UNIT 17 AC*	14	0.24	1			
27	M	-	14				28	M	-	14					
29	M	UNIT 8 AC*	14	0.24		1	30	M	UNIT 18 AC*	14	0.24	1			
31	M	-	14				32	M	-	14					
33	M	UNIT 9 AC*	14	0.24		1	34	M	UNIT 19 AC*	14	0.24	1			
35	M	-	14				36	M	-	14					
37	M	UNIT 10 AC*	14	0.24		1	38	M	UNIT 20 AC*	14	0.24	1			
39	M	-	14				40	M	-	14					
41	M	HYAC CONTROLS	12	0.5		1	42	M	SPARE					1	
LOAD TYPE						Connected Load 5.3 KVA						CIRCUIT BREAKER SIZE			
R	Receptacle Load		0.0 KVA	Noncontinuous		0.0 KVA	CIRCUIT BREAKER SIZE		152	152		201		0	
L	Lighting Load		0.0 KVA	Continuous		0.0 KVA	CIRCUIT BREAKER COUNT		0	0		20		2	
M	Mechanical and Power Load		5.3 KVA	Noncontinuous		5.3 KVA	CIRCUIT BREAKER COUNT		0	0		0		0	
TOTAL LOAD 5.3 KVA						AMPERAGE: 15 AMP									

PANEL: EH4		150 A 208Y/120 V 3PH 4W 60HZ		SHUNT TRIP MAIN											
10,000 AIC CIRCUITS: 42 BUS RATING:		MAIN LUG ONLY <input checked="" type="checkbox"/> MAIN CIRCUIT BREAKER <input checked="" type="checkbox"/> SURFACE MOUNTED <input checked="" type="checkbox"/> FLUSH MOUNTED <input type="checkbox"/> FLOOR MOUNTED <input type="checkbox"/>		NOTE A AFCI G GFCI - 5mA TRIP P GFPE - 30 mA TRIP S SHUNT TRIP L LOCK ON IG ISOLATED GROUND C VIA LIGHTING CONTROL PANEL											
1	M	DRYER	8	5		1	2	L	LAUNDRY/MECH LIGHTING	12	0.8	1			
3	M	-	8				4	R	INTERCOM/MECH EQUIPMENT	12	0.8	1			
5	M	WASHER/DRYER	8	5		1	6	R	REC. AT PANEL	12	0.18	1			
7	M	-	8				8	M	POWER FOR DOOR	12	0.5	1			
9	M	WASHER/DRYER	8	5		1	10	M	EHU-0.3E & EHU-0.4E (9A+9B)	12	4		1		
11	M	-	8				12	M	-	12					
13	M	WASHER	12	1		1	14	M	-	12					
15	R	REC.	12	1		1	16	L	EXTERIOR LIGHTING	12	0.5	1			
17	M	RADON EXHAUST	12	0.5		1	18	M	AC-0'E (15)	14	0.35	1			
19	M	EHU-0.2E (8B)	12	3		1	20	M	-	14					
21	M	-	12				22	M	VEHICLE CHARGING STATION	6	6.5			1	
23	M	-	12				24	M	-	8					
25	M	EHU-1E (8A)	12	3		1	26	M	SPARE						
27	M	-	12				28	M	SPARE						
29	M	-	12				30	M	SPARE						
31	L	ELEVATOR CAB	12	0.1		1	32	M	SPARE						
33	R	ELEVATOR CONTROL RM. REC.	12	0.18		1	34	M	SPARE						
35	L	SITE LIGHTING	10	0.2		1	36	M	SPARE						
37	L	-	10				38	M	SPARE						
39	M	SPARE	1				40	M	SPARE						
41	M	SPARE	1				42	M	SPARE						
LOAD TYPE						Connected Load 35.8 KVA						CIRCUIT BREAKER SIZE			
R	Receptacle Load		1.2 KVA	Noncontinuous		1.2 KVA	CIRCUIT BREAKER SIZE		152	152		201		0	
L	Lighting Load		0.8 KVA	Continuous		1.0 KVA	CIRCUIT BREAKER COUNT		1	21		3		2	
M	Mechanical and Power Load		33.9 KVA	Noncontinuous		33.9 KVA	CIRCUIT BREAKER COUNT		1	1		3		2	
TOTAL LOAD 36.0 KVA						AMPERAGE: 100 AMP									

PANEL: EH5		100 A 208Y/120 V 3PH 4W 60HZ		SHUNT TRIP MAIN	
10,000 AIC CIRCUITS: 42 BUS RATING:		MAIN LUG ONLY <input checked="" type="checkbox"/> MAIN CIRCUIT BREAKER <input checked="" type="checkbox"/> SURFACE MOUNTED <input checked="" type="checkbox"/> FLUSH MOUNTED <input type="checkbox"/> FLOOR MOUNTED <input type="checkbox"/>		NOTE A AFCI G GFCI - 5mA TRIP P GFPE - 30 mA TRIP S SHUNT TRIP L LOCK ON IG ISOLATED GROUND C VIA LIGHTING CONTROL PANEL	

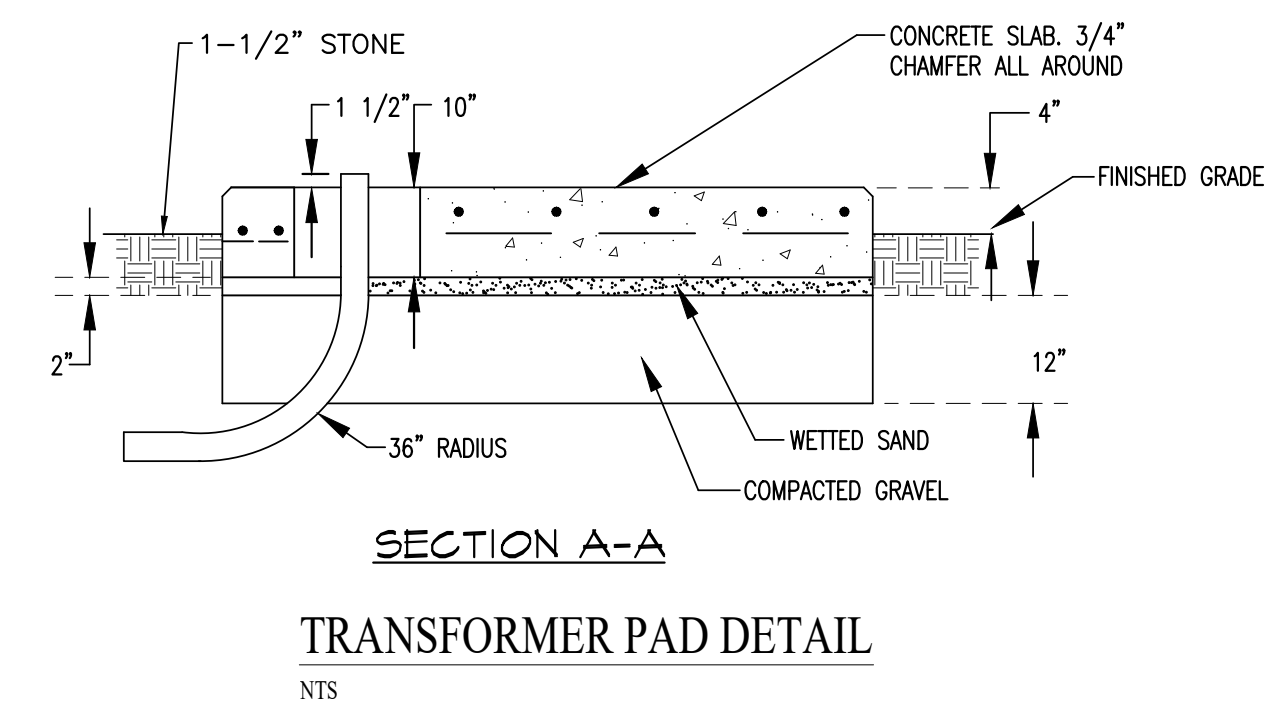
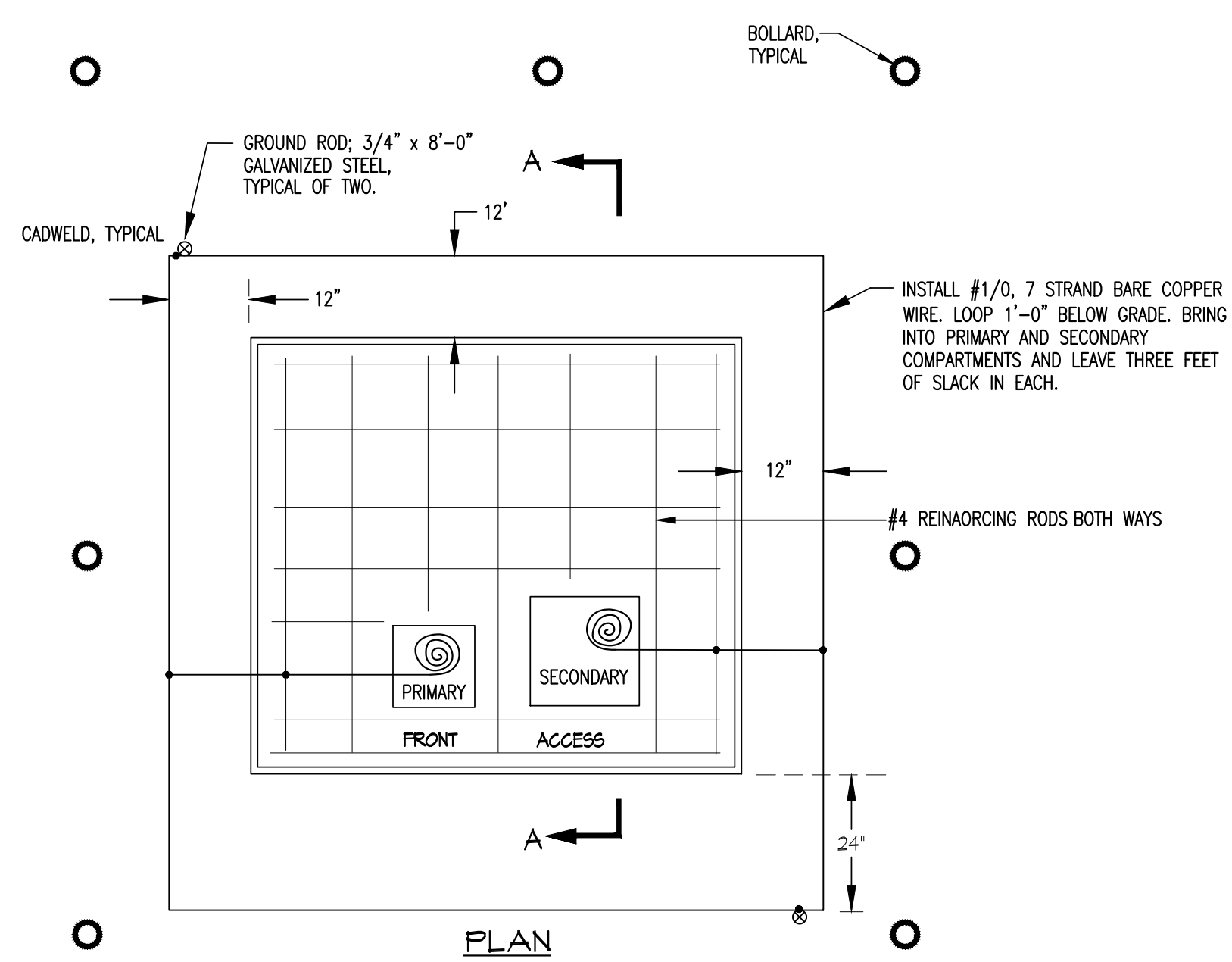




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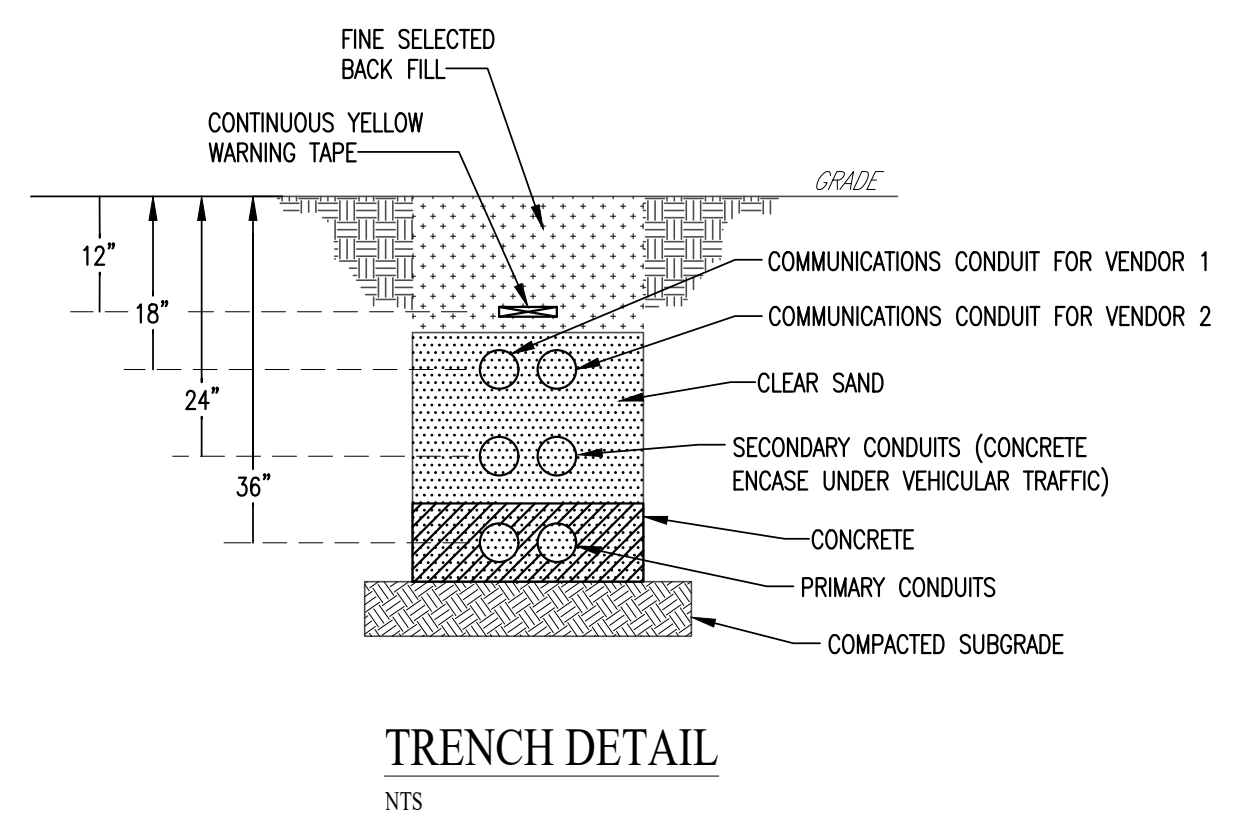
SITE LIGHTING FIXTURE SCHEDULE					
TYPE	MANUFACTURER	MOUNTING	LAMPS		REMARKS
			WATTS	TYPE	
B1	GARCOO BR840-42-CWL-NW-180-18-UNIV-*	POST-TOP	17.1	LED	721L 208V, 0.09A
SL3D	PHILIPS/LUMEC MPTC-55W3ZLED4K-T-LE3W-208-HS-SPRSV-14-B105-3/4X20-12 1/2-DEC-COLTX		55.9	LED	POST-TOP 3576L 208V, 0.27A
SL4A	PHILIPS/LUMEC MPTC-55W3ZLED4K-T-LE4-208-HS-SPRSV-14-B105-3/4X20-12 1/2-DEC-COLTX		55.9	LED	POST-TOP 4149L 208V, 0.27A
SL4B	PHILIPS/LUMEC MPTC-55W3ZLED4K-T-LE4-208-HS-SPRSV-14-B105-3/4X20-12 1/2-DEC-COLTX		55.9	LED	POST-TOP 3635L 208V, 0.27A

**LIGHTING FIXTURE SCHEDULE NOTES:**  
 1. ALL LIGHTING FIXTURES SHALL BE DARK SKY COMPLIANT.



**UNDERGROUND DISTRIBUTION NOTES:**

- ALL TRANSFORMER PADS, SWITCHGEAR BASES, GROUNDING, HANDHOLDS, MANHOLES, PULL/SPLICE BOXES, AND TRENCHES SHALL MATCH NATIONAL GRID SPECIFICATIONS, AS A MINIMUM.
- COORDINATE EXACT LOCATION OF ALL BOLLARDS, SPLICE/PULL BOXES, COMMUNICATIONS BOXES, AND TRANSFORMERS WITH ARCHITECT.
- ALL BOXES AND TRANSFORMERS SHALL BE LOCKABLE OR BOLTED CLOSED. PROVIDE MATCHING LOCKS AND KEYS.



**DUCT BANK NOTES:**

- ALL BASE AND INTERMEDIATE SPACERS SHALL BE INTERLOCKING TYPE.
- ALL SPACERS SHALL MAINTAIN 3" SPACE.
- ALL SPACERS SHALL BE INSTALLED AT 5'-0" CENTERS ALONG ENTIRE RUN.
- ALL SPACERS SHALL BE CONSTRUCTED OF HIGH IMPACT PVC.
- COORDINATE PRICING WITH GENERAL CONTRACTOR TO AVOID DUPLICATION.

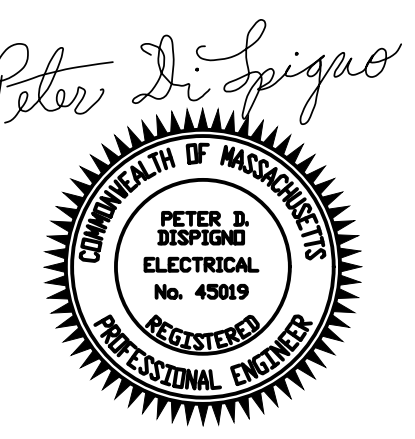
LIGHTING FIXTURE SCHEDULE					
TYPE	MANUFACTURER	MOUNTING	LAMPS		REMARKS
			WATTS	TYPE	
A	QUIOZEL LIGHTING/SAILOR SLR1620WT	FLUSH	300	INC.	GENERAL DWELLING LIGHT BLDG. E/F
B	COOPER/EATON/HALO SLD6128 30 WH	CEILING, FLUSH	14.8	LED	1000 L BLDG. E/F
C	STACO/NUVO 60-6786	WALL SCONCE	300	INC.	BATHROOM VANITY BLDG. E/F
D	WAC LIGHTING 8010/3	CEILING, TRACK	3x11=33	LED	DWELLING DINING BLDG. E/F 850x3
G	BROWNLEE 1474-BN-G10	WALL SCONCE	7	LED	CORRIDORS BLDG. E/F GU-24 LAMP
H	LITHONIA WF6	CEILING, SURFACE	14	LED	COMM. BLDG., EXTERIOR BLDG. E/F 1100 L
J	HINKLEY/WINNIE 3555PT	PENDANT	100	INC.	BLDG. E/F LOBBY
K	ACUIY/MARK S2LWID-LP-4FT-MSL4-80CRI-30K-400LMF-180CRI-130K-1800LMF-SCT-NODIM-MVOLT-WHT	WALL, SURFACE	30	LED	STAIRS UP: 400L/FT, DN: 800L/FT
L	LITHONIA SBL4-LP835	CEILING, SURFACE	32	LED	BACK OF HOUSE UTILITY 3933L, DIMMABLE
M	GENERATION CP1112SMS	PENDANT	120	INC.	COMM. BLDG. LOBBY CORRIDOR
N	WAC/dwLED FM-W57812	SURFACE	15.7	LED	COMM. BLDG. GENERAL LIGHTING CORRIDOR/LOBBY
O	COOPER/EATON/METALUX CRUZE ST22C22-32-S-UNV-L930	CEILING, RECESSED	26.7	LED	CLUB OFFICES 3K, 2722L
P	COOPER/EATON/METALUX 4RCG-4-1000-L835	CEILING, RECESSED	40	LED	FITNESS ROOM 3500K, 3440L
Q	GENERATIONS 41162-839	WALL SCONCE	3x100	INC.	COMM. BLDG. VANITY
R	QUIOZEL LIGHTING SCE1507EK	PENDANT	100	INC.	COMMUNITY ROOM BLDG E/F
S	ARMSTRONG 43118BK	CHANDELIER	800	INC.	COMMUNITY ROOM DINING AREA
T	MINKA AIRE A833-BK	FAN	0	-	FITNESS ROOM
U	HALO SMD6S-6-930-WH-DM	RECESSED	10	LED	815 L COMMUNITY ROOM KITCHEN COUNTER
X	MULE LIGHTING MX-A-R-U	U	4	LED	POWER FROM NEAREST UNSWITCHED INVERTER CIRCUIT.

**LIGHTING FIXTURE SCHEDULE NOTES:**

- PROVIDE ALL LAMPS FOR ALL LIGHTING FIXTURES. LAMP COLOR SHALL BE 3500K.
- PROVIDE UNISTRUT WHERE NEEDED TO MOUNT LIGHTING FIXTURE.
- ENSURE DIMMING SWITCHES ARE COMPATIBLE WITH LIGHTING FIXTURES BEFORE SUBMITTING SHOP DRAWINGS.
- ALL LIGHT SOURCES SHALL BE LED.

CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

Proposed Design for:  
**Woodland Cove**  
**Phase I**  
 Buildings E, F, & COMMUNITY BUILDING  
 3102 Cranberry Highway  
 Wareham, MA 02532

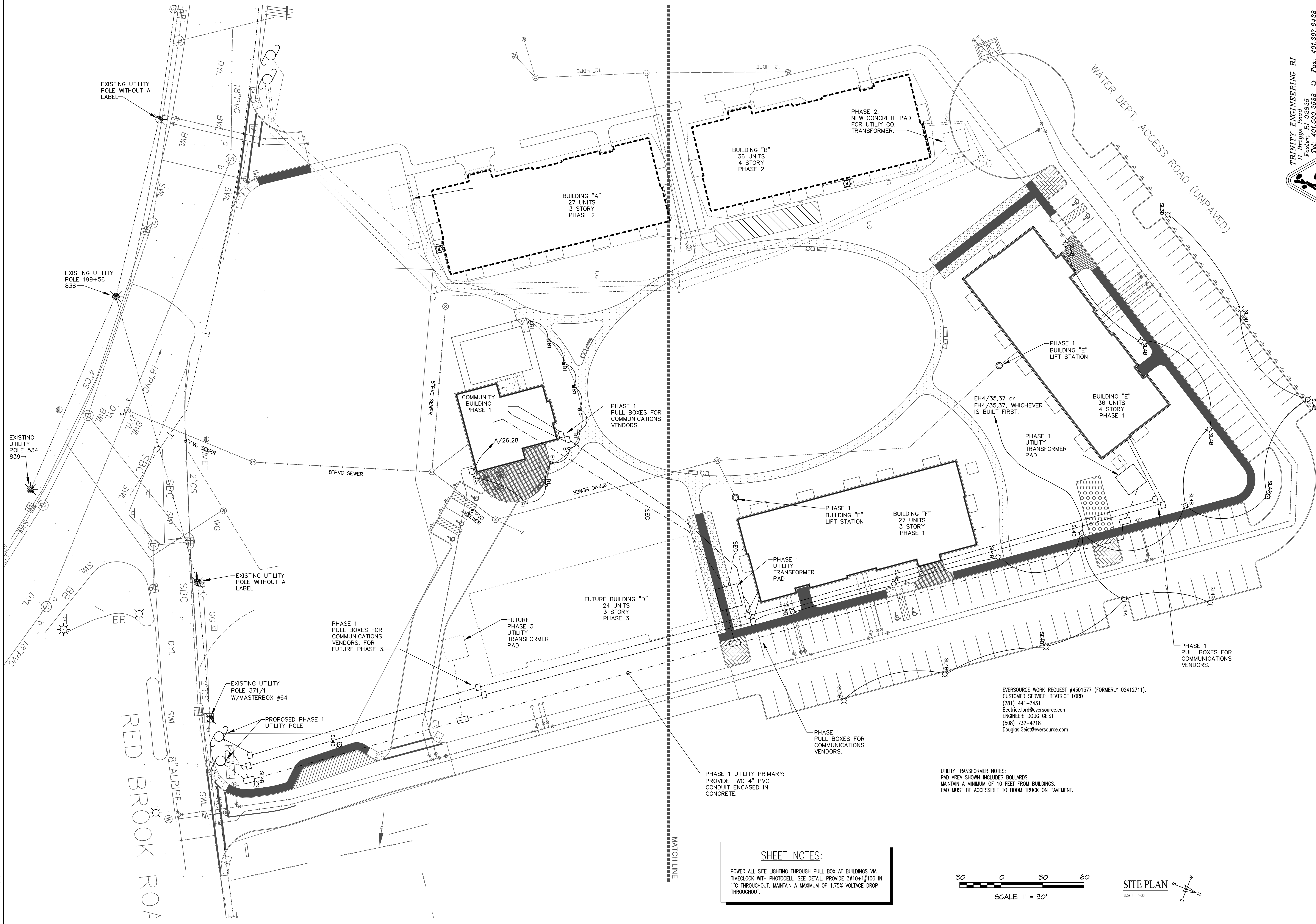


**SHEET CONTENTS:**  
 Lighting Fixture Schedule and Site Details

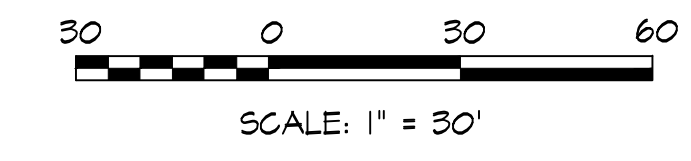
PROJECT # 1420  
 DATE: 9/22/2020  
 REVISED DATE:  
 REVISED: 02/16/2021

**E0.8**

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**SHEET NOTES:**  
 POWER ALL SITE LIGHTING THROUGH PULL BOX AT BUILDINGS VIA TIMECLOCK WITH PHOTOCELL. SEE DETAIL. PROVIDE 3#10+1#10G IN 1" THROUGHOUT. MAINTAIN A MAXIMUM OF 1.75% VOLTAGE DROP THROUGHOUT.



**SITE PLAN**  
 SCALE: 1"=30'

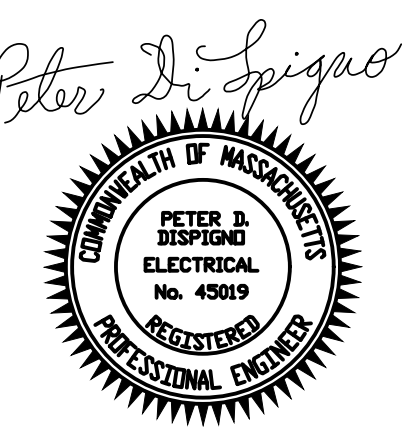
EVERSOURCE WORK REQUEST #4301577 (FORMERLY 02412711).  
 CUSTOMER SERVICE: BEATRICE LORD  
 (781) 441-3431  
 Beatrice.lord@eversource.com  
 ENGINEER: DOUG GEIST  
 (508) 732-4218  
 Douglas.Geist@eversource.com

**UTILITY TRANSFORMER NOTES:**  
 PAD AREA SHOWN INCLUDES BOLLARDS.  
 MAINTAIN A MINIMUM OF 10 FEET FROM BUILDINGS.  
 PAD MUST BE ACCESSIBLE TO BOOM TRUCK ON PAVEMENT.

**PHASE 1 UTILITY PRIMARY:**  
 PROVIDE TWO 4" PVC CONDUIT ENCASED IN CONCRETE.

CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

Proposed Design for:  
**Woodland Cove Phase 1**  
 Buildings E, F, & COMMUNITY BUILDING  
 3102 Cranberry Highway  
 Wareham, MA 02532



**SHEET CONTENTS:**  
 Site Plan  
 Proposed

PROJECT # 1420  
 DATE: 9/22/2020  
 REVISED DATE:  
 Δ REVISED: 02/16/2021

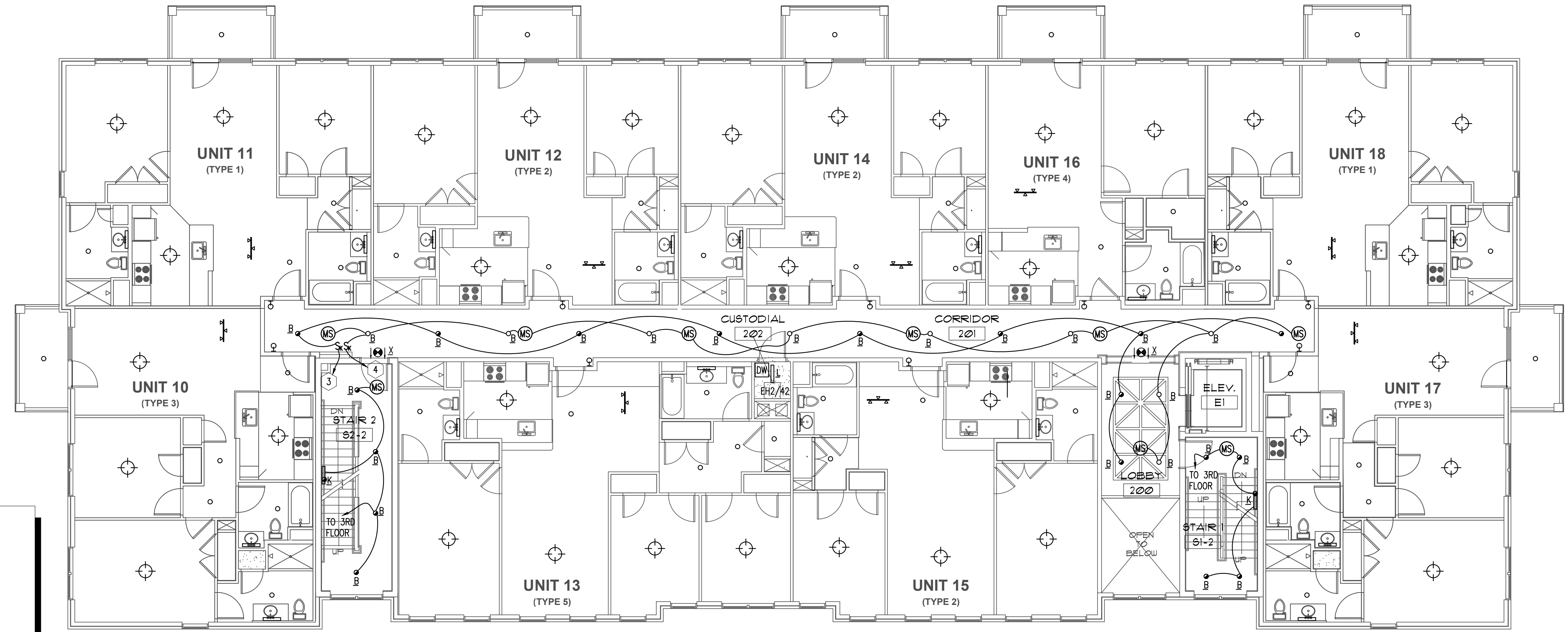
**E1.1**

**TRINITY ENGINEERING RI**  
 11 Briggs Road  
 Foster, RI 02825  
 Tel: 401.500.2538 Fax: 401.397.6428  
 pdispigao@trinityeng.com

**Ed Wojcik**  
 architect, ltd  
 One Richmond Square  
 Providence, RI 02906  
 401-861-7139

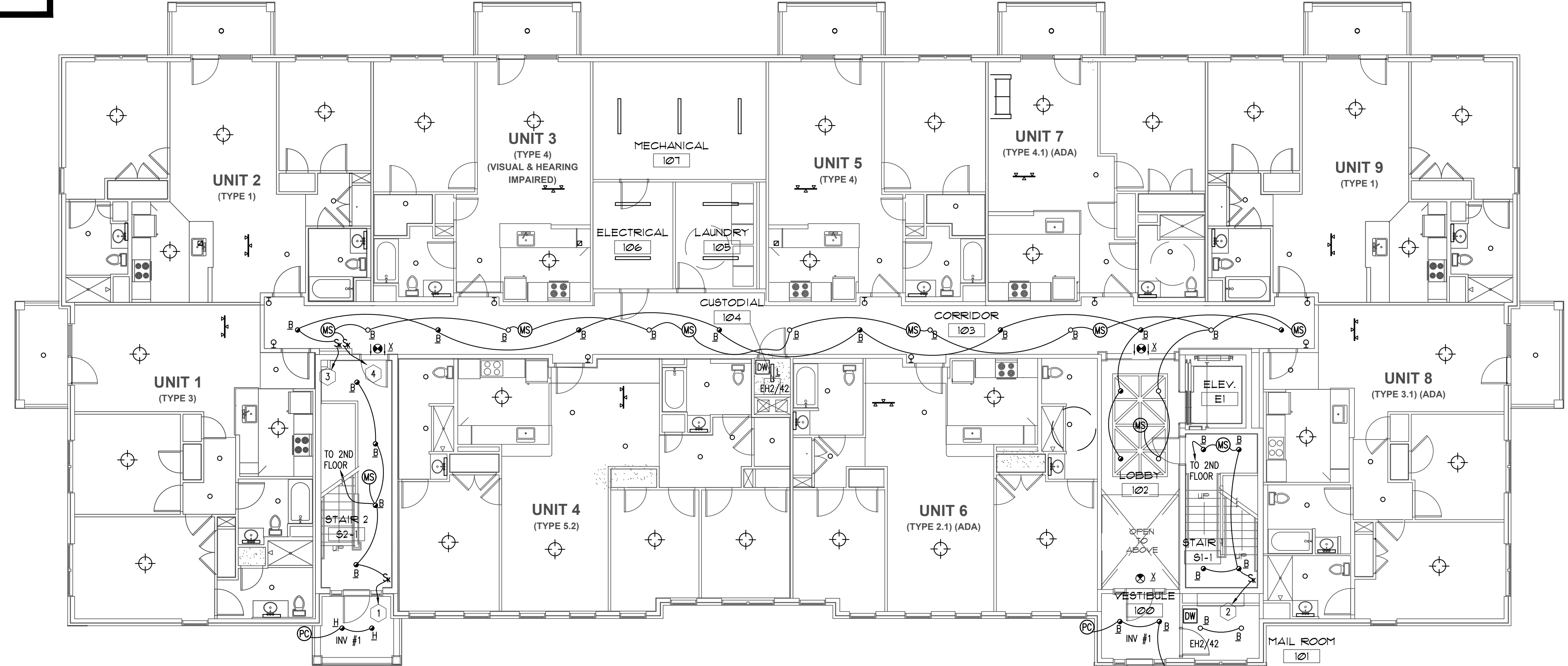
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- SHEET NOTES:**
- 1 POWER ALL LIGHTS IN STAIR #1 FROM INVERTER #1 THROUGH KEY SWITCH.
  - 2 POWER ALL LIGHTS IN STAIR #2 FROM INVERTER #1 THROUGH KEY SWITCH.
  - 3 POWER FROM INVERTER #2.
  - 4 WIRE MOTION SENSORS TO TURN ON ALL LIGHTS ON THIS SWITCH WHEN ANY ONE MOTION SENSOR IS TRIGGERED. POWER FROM EH2/42.
  - 5 POWER BATHROOM SWITCHES AND LIGHTS FROM BATHROOM RECEPTACLE. GFCI PROTECT ALL. (CIRCUIT E1/10).
  - 6 POWER ALL LIGHTING FIXTURES WITHIN ONE DWELLING UNIT FROM ONE BRANCH CIRCUIT (E1/2), EXCEPT BATHROOM LIGHT.



BUILDING E: SECOND FLOOR PLAN

2 1/8" = 1'-0"



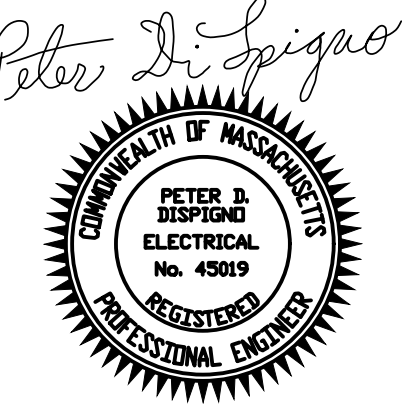
BUILDING E: FIRST FLOOR PLAN

1 1/8" = 1'-0"

**TRINITY ENGINEERING RI**  
 11 Briggs Road  
 Foster RI 02825  
 Tel: 401.500.2538 Fax: 401.397.6428  
 pdavis@trinityeng.com

**Ed Wojcik**  
 architect, ltd  
 One Richmond Square  
 Providence, RI 02906  
 401-861-7139

Proposed Design for:  
**Woodland Cove**  
**Phase I**  
 Buildings E, F, & COMMUNITY BUILDING  
 3102 Cranberry Highway  
 Wareham, MA 02532



SHEET CONTENTS:  
 Building E  
 First and Second Floor  
 Lighting Plans:  
 Proposed

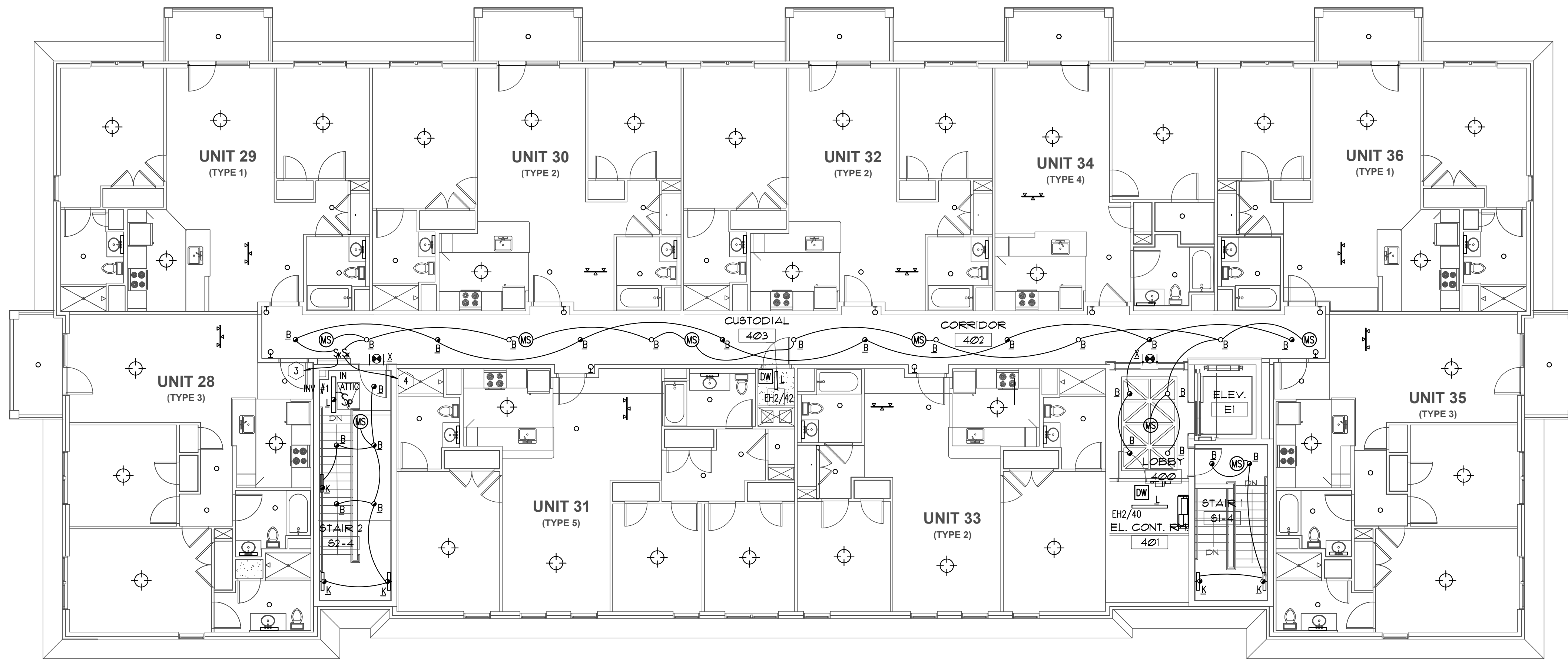
PROJECT # 1420  
 DATE: 9/22/2020  
 REVISED DATE:  
 REVISED: 02/16/2021

E2.1

CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

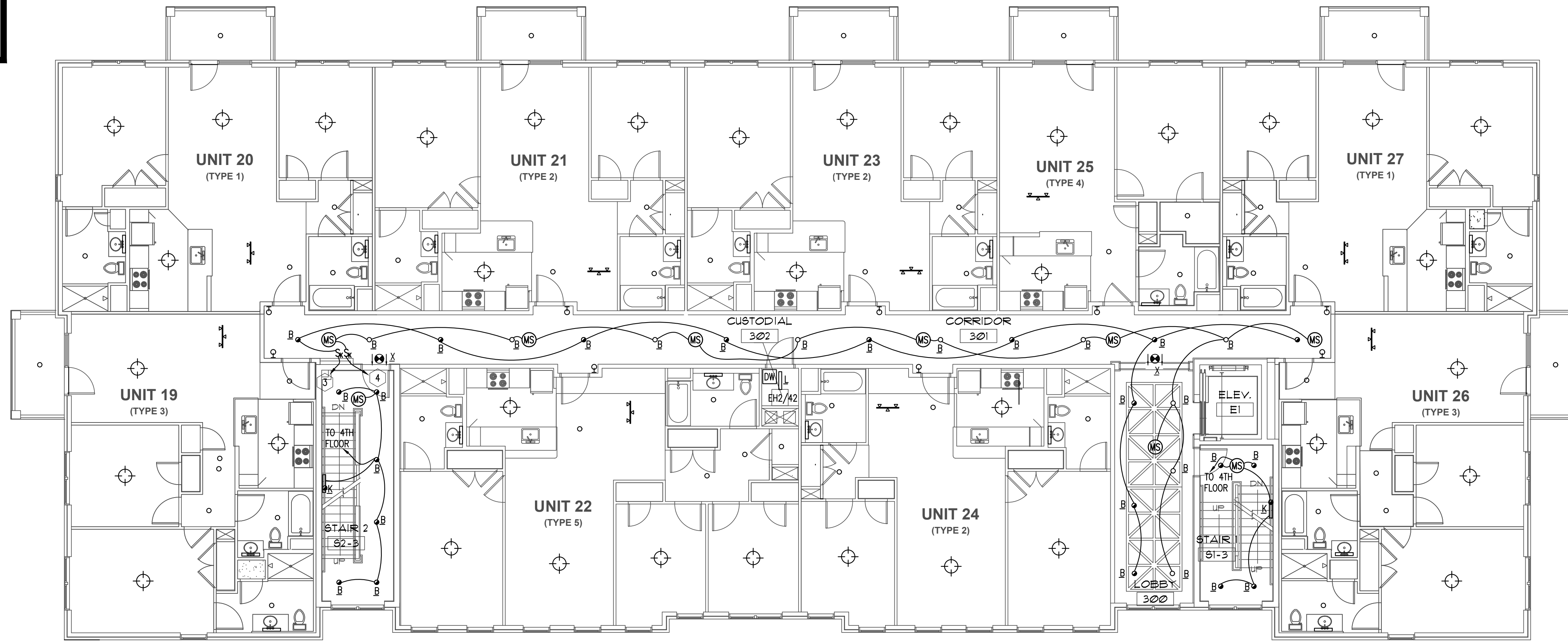
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- SHEET NOTES:**
- 1 POWER ALL LIGHTS IN STAIR #1 FROM INVERTER #1 THROUGH KEY SWITCH.
  - 2 POWER ALL LIGHTS IN STAIR #2 FROM INVERTER #1 THROUGH KEY SWITCH.
  - 3 POWER FROM INVERTER #2.
  - 4 WIRE MOTION SENSORS TO TURN ON ALL LIGHTS ON THIS SWITCH WHEN ANY ONE MOTION SENSOR IS TRIGGERED. POWER FROM EH2/42.
  - 5 POWER BATHROOM SWITCHES AND LIGHTS FROM BATHROOM RECEPTACLE. GFCI PROTECT ALL. (CIRCUIT E\*/10).
  - 6 POWER ALL LIGHTING FIXTURES WITHIN ONE DWELLING UNIT FROM ONE BRANCH CIRCUIT (E\*/2), EXCEPT BATHROOM LIGHT.



BUILDING E: FOURTH FLOOR PLAN

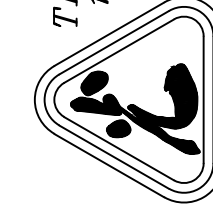
2 1/8" = 1'-0"



BUILDING E: THIRD FLOOR PLAN

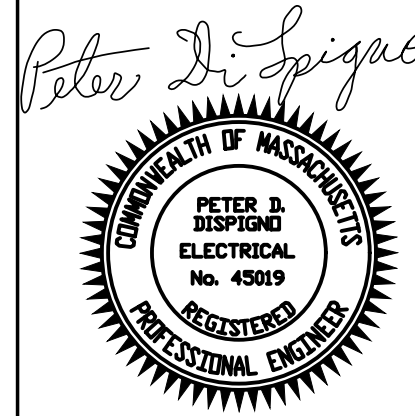
1 1/8" = 1'-0"

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 11 Briggs Road  
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 pdavis@trinityeng.com



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 Wareham, MA 02532



SHEET CONTENTS:

Building E  
 Third Floor and Fourth Floor  
 Lighting Plans:  
 Proposed

PROJECT # 1420

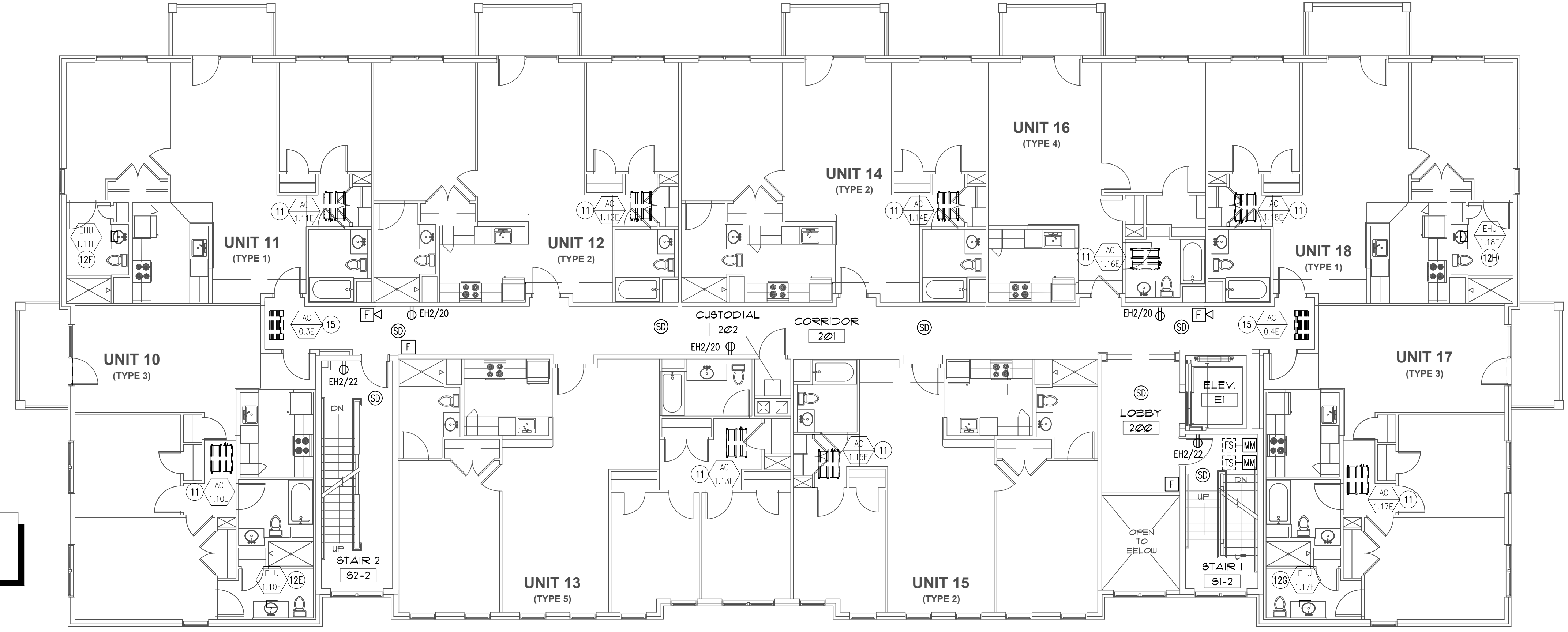
DATE: 9/22/2020  
 REVISED DATE:  
 REVISED: 02/16/2021

**E2.2**

CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

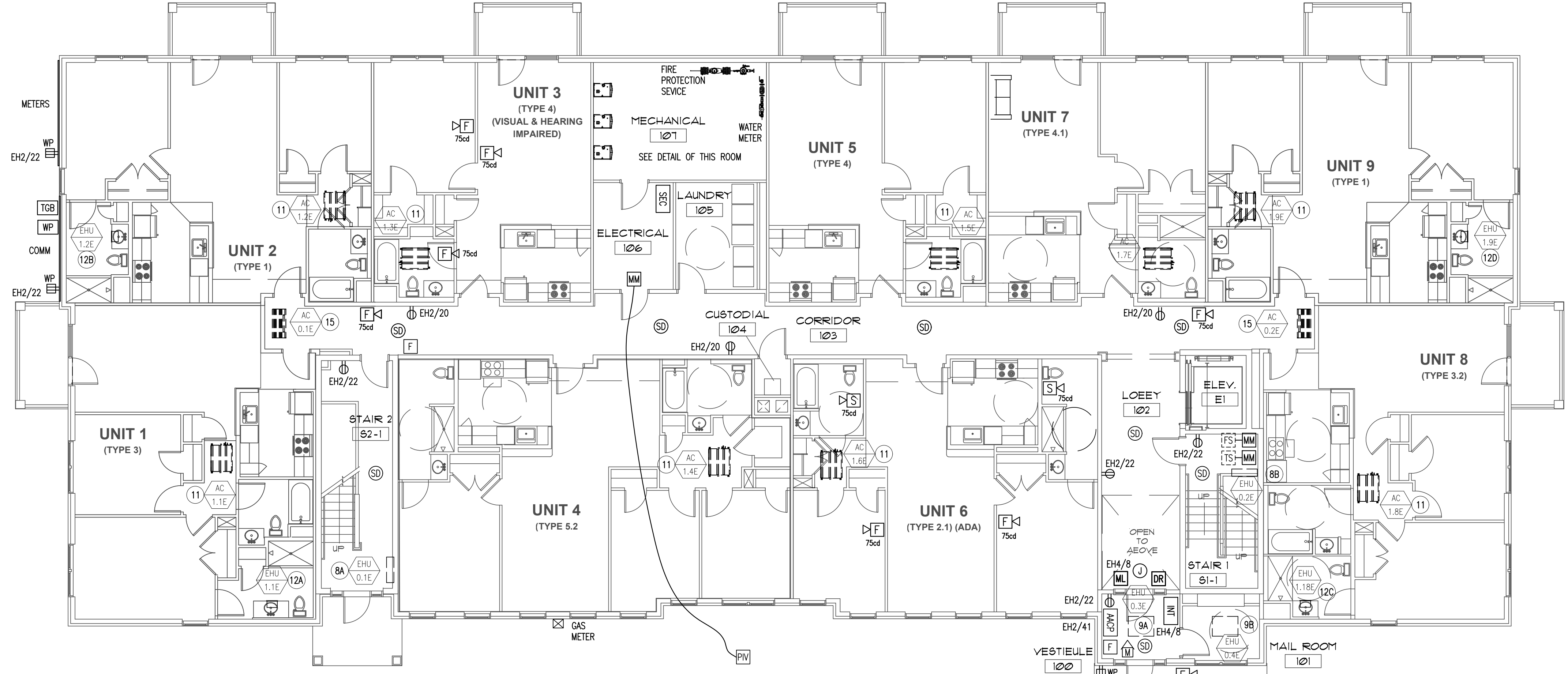
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NOTE:  
INDICATES MECHANICAL EQUIPMENT TAG. SEE MECHANICAL CONNECTION SCHEDULES DETAILS.



BUILDING E: SECOND FLOOR PLAN

1/8" = 1'-0"



BUILDING E: FIRST FLOOR PLAN

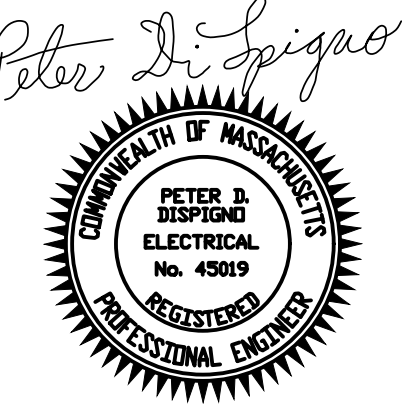
1/8" = 1'-0"



TRINITY ENGINEERING RI  
11 Briggs Road  
Providence, RI 02895  
Tel: 401.500.2538  
Fax: 401.397.6428  
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architect, ltd  
One Richmond Square  
Providence, RI 02906  
401-861-7139

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3102 Cranberry Highway  
Wareham, MA 02532



SHEET CONTENTS:  
Building E  
First and Second Floor  
Power & Fire Alarm Plans:  
Proposed

PROJECT # 1420  
DATE: 9/22/2020  
REVISED DATE:  
REVISED: 02/16/2021

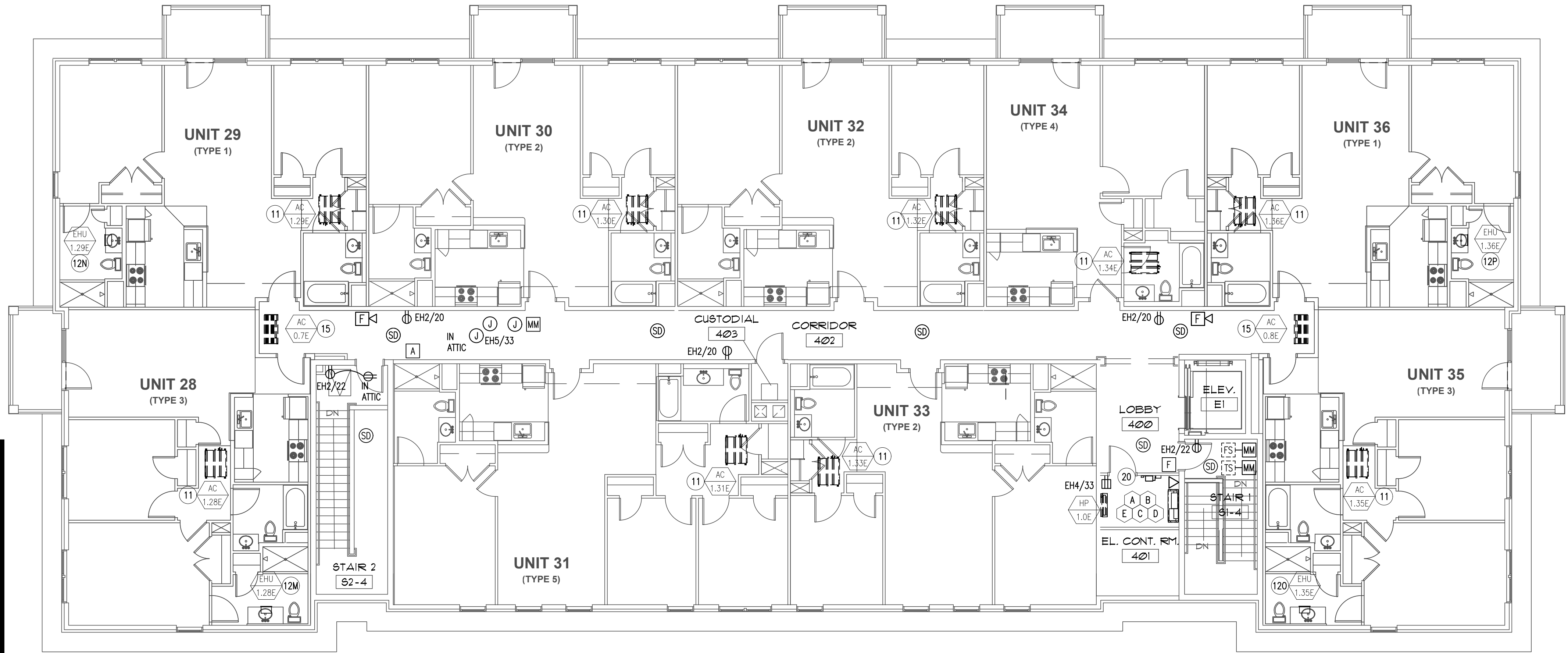
**E2.3**

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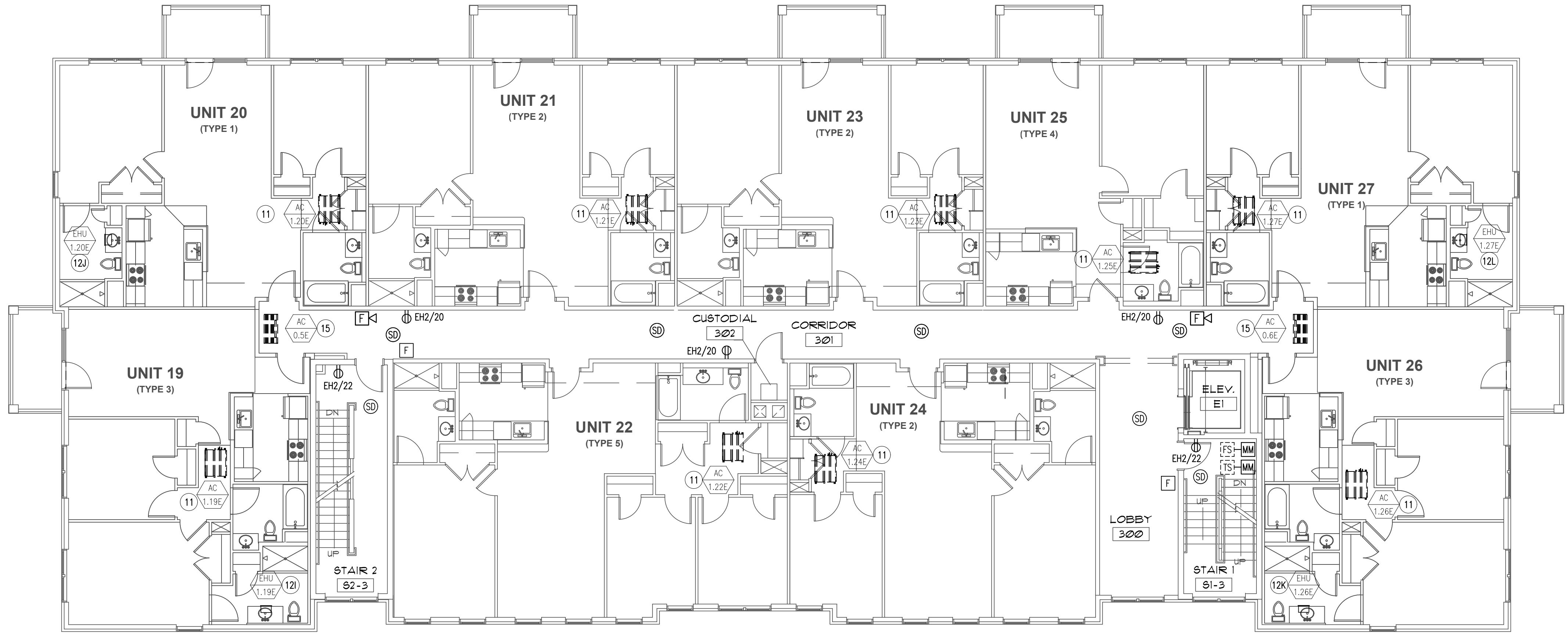
- ELEVATOR NOTES:**
- A PROVIDE A NEW HEAVY DUTY DISCONNECT SWITCH WITH AUXILIARY CONTACTS AS NEEDED, AND A NEW FEEDER BACK TO PANEL \*H1. EXTEND WIRING TO ELEVATOR CONTROLS AND MOTOR.
  - B PROVIDE A DEDICATED BRANCH CIRCUIT AND A 15 AMP MANUAL MOTOR STARTER WITH OVERLOAD ELEMENT THAT CAN BE LOCKED IN THE OFF POSITION (FOR THE CAB). POWER FROM \*H4/31.
  - C PROVIDE A TERMINAL CABINET AND CONDUIT PER VENDOR FOR SECURITY WIRING AND VIDEO WIRING.
  - D PROVIDE FIRE ALARM SYSTEM CONTROL MODULES FOR ELEVATOR CAPTURE CONTROLS.
  - E PROVIDE ADDITIONAL FIRE ALARM SYSTEM CONTROL MODULE(S) FOR BYPASS OF SECURITY CONTROLS AND AS NEEDED FOR OTHER FUNCTIONS.

NOTE:  
 INDICATES MECHANICAL EQUIPMENT TAG. SEE MECHANICAL CONNECTION SCHEDULES DETAILS.



BUILDING E: FOURTH FLOOR PLAN

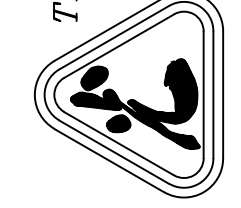
2 1/8" = 1'-0"



BUILDING E: THIRD FLOOR PLAN

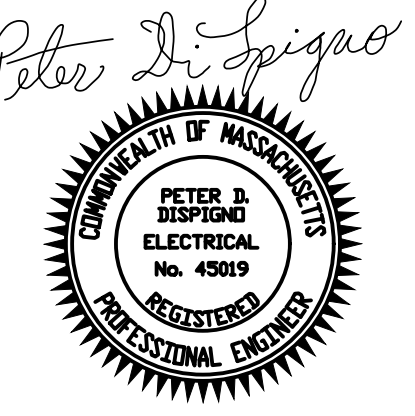
1 1/8" = 1'-0"

TRINITY ENGINEERING RI  
 11 Briggs Road  
 Foster RI 02895  
 Tel: 401.500.2538  
 Fax: 401.397.6428  
 pdtispigro@msn.com



**Ed Wojcik**  
 architect, ltd  
 One Richmond Square  
 Providence, RI 02906  
 401-861-7139

Proposed Design for:  
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**Phase I**  
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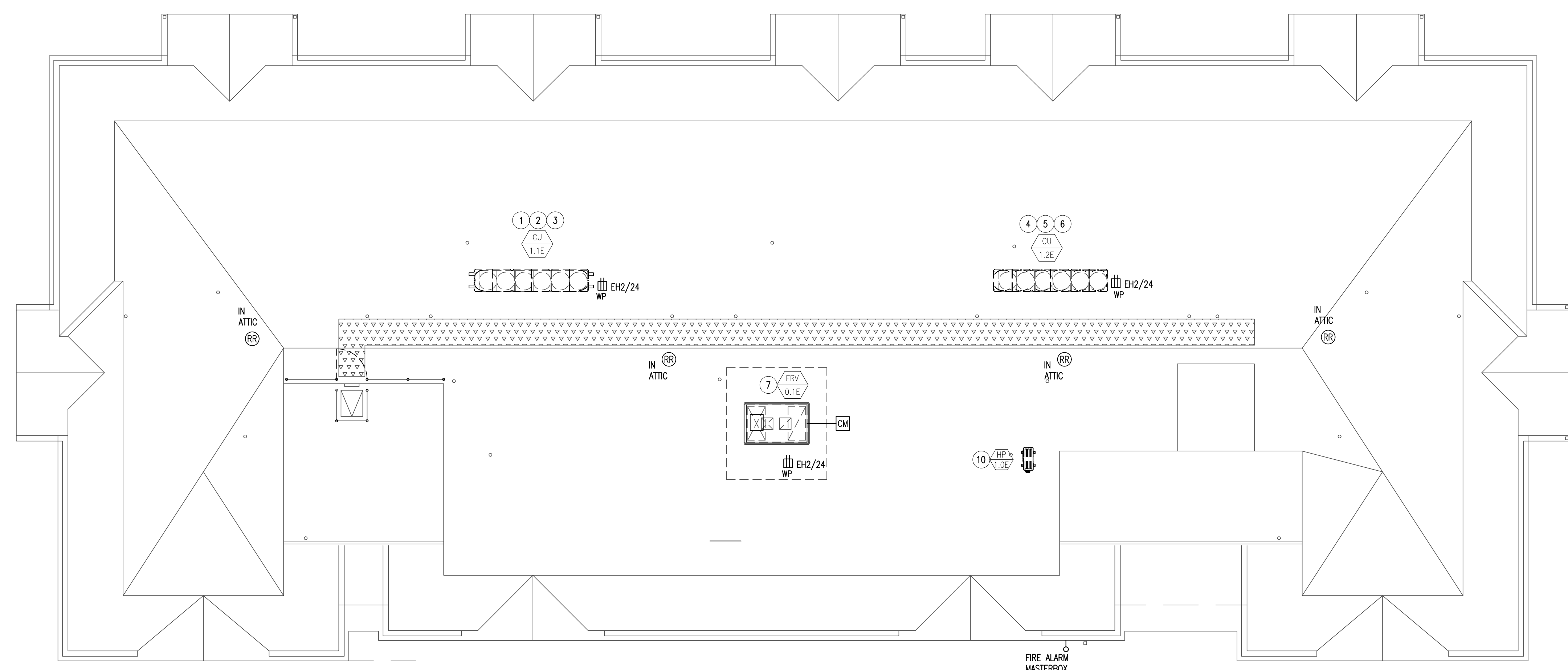
SHEET CONTENTS:  
 Building E  
 Third Floor Fnd Fourth Floor  
 Power & Fire Alarm Plans:  
 Proposed

PROJECT # 1420  
 DATE: 9/22/2020  
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**E2.4**

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NOTE:  
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BUILDING E: ROOF PLAN

1 1/8" = 1'-0"

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11 Briggs Road  
Providence, RI 02895  
Tel: 401.500.2538 Fax: 401.397.6428  
pdts@trinityeng.com

**Ed Wojcik**  
architect, ltd  
One Richmond Square  
Providence, RI 02906  
401-861-7139

Proposed Design for:  
**Woodland Cove Phase I**  
Buildings E, F, & COMMUNITY BUILDING  
3102 Cranberry Highway  
Wareham, MA 02532

*Peter Di Spigao*  
  
 PETER DI SPIGAO  
 REGISTERED PROFESSIONAL ENGINEER  
 COMMONWEALTH OF MASSACHUSETTS  
 LICENSE NO. 43819

SHEET CONTENTS:  
Building E  
Roof Power &  
Fire Alarm Plans:  
Proposed

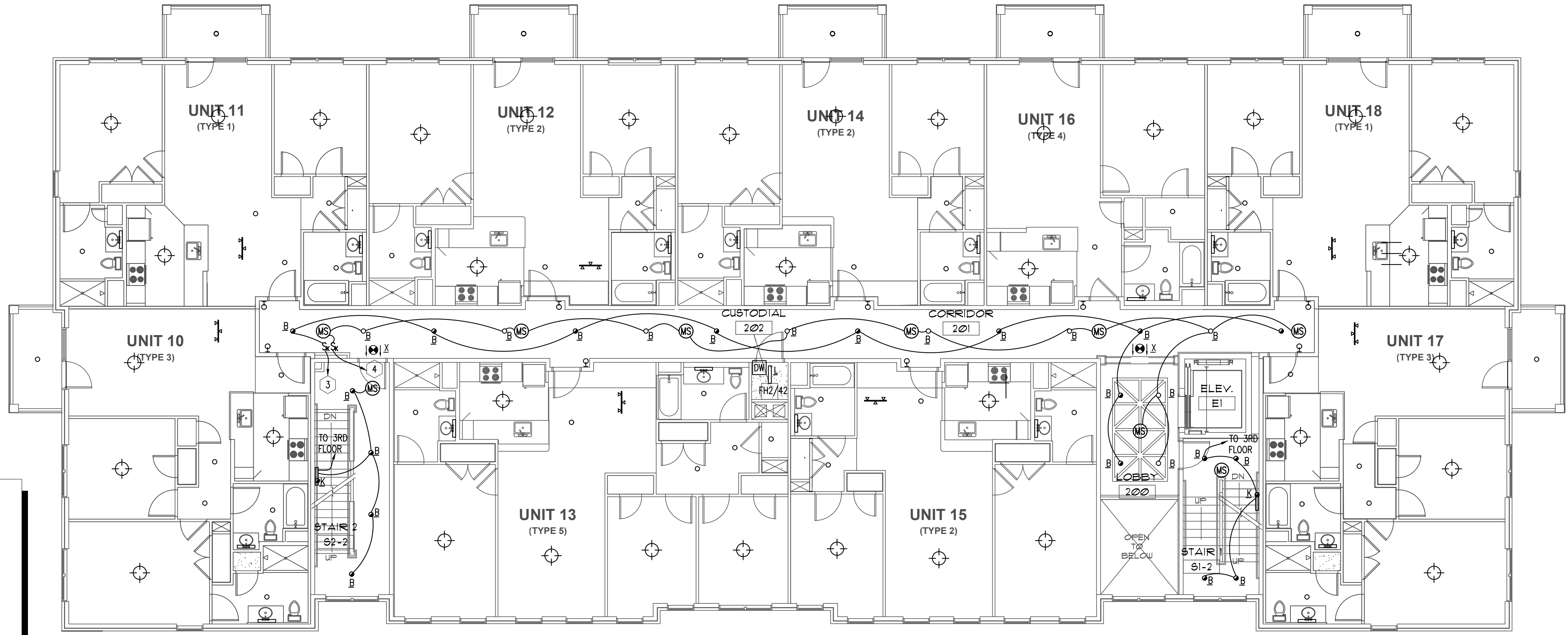
PROJECT # 1420  
DATE: 9/22/2020  
REVISED DATE:  
△ REVISED: 02/16/2021

**E2.5**

CONSTRUCTION DOCUMENTS — REVISED SET FEBRUARY 16, 2021

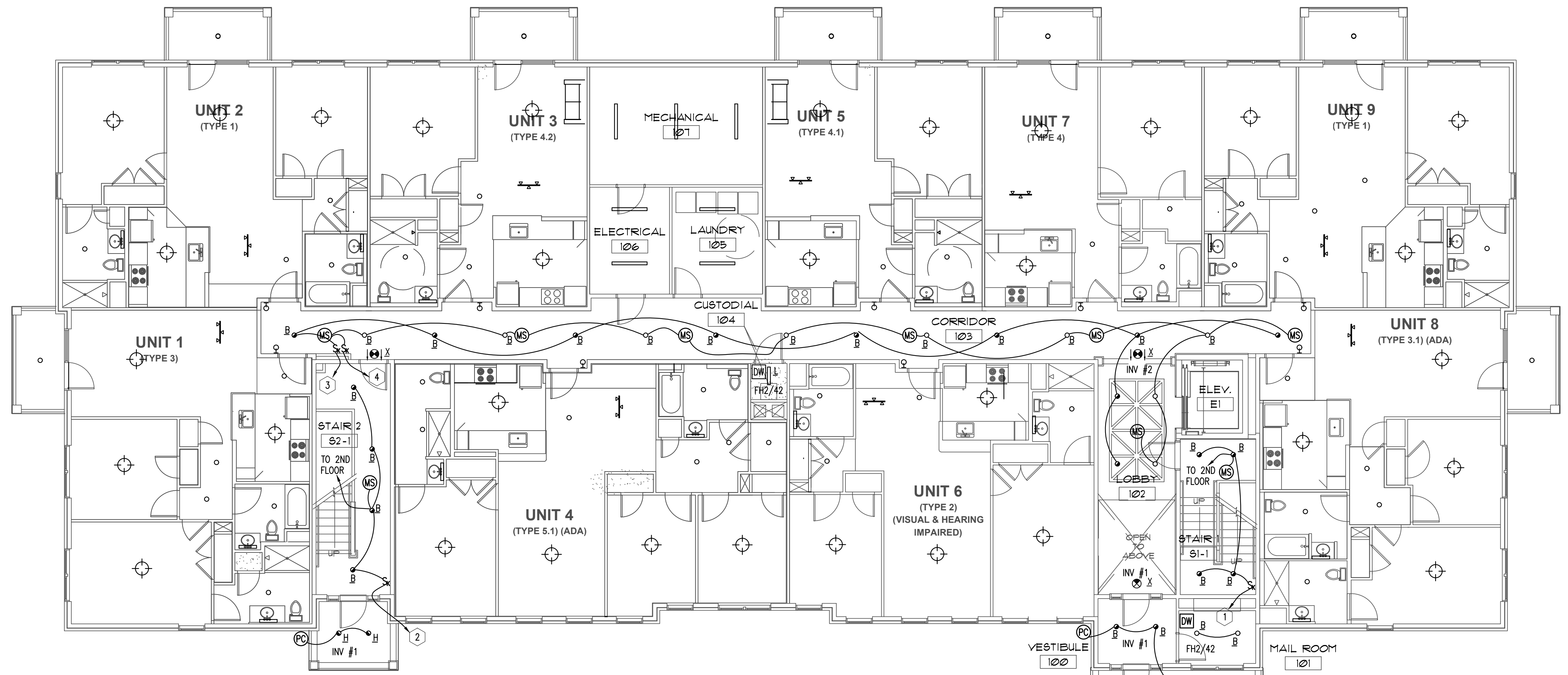
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- SHEET NOTES:**
- POWER ALL LIGHTS IN STAIR #1 FROM INVERTER #1 THROUGH KEY SWITCH.
  - POWER ALL LIGHTS IN STAIR #2 FROM INVERTER #1 THROUGH KEY SWITCH.
  - POWER FROM INVERTER #2.
  - WIRE MOTION SENSORS TO TURN ON ALL LIGHTS ON THIS SWITCH WHEN ANY ONE MOTION SENSOR IS TRIGGERED. POWER FROM FH2/42.
  - POWER BATHROOM SWITCHES AND LIGHTS FROM BATHROOM RECEPTACLE. GFCI PROTECT ALL. (CIRCUIT F\*/10).
  - POWER ALL LIGHTING FIXTURES WITHIN ONE DWELLING UNIT FROM ONE BRANCH CIRCUIT (F\*/2), EXCEPT BATHROOM LIGHT.



BUILDING F: SECOND FLOOR PLAN

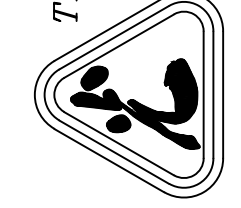
2 1/8" = 1'-0"



BUILDING F: FIRST FLOOR PLAN

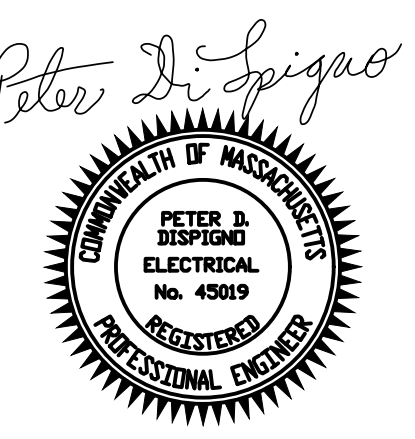
1 1/8" = 1'-0"

TRINITY ENGINEERING RI  
 11 Briggs Road  
 Foster RI 02825  
 Tel: 401.500.2538 Fax: 401.397.6428  
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**Ed Wojcik**  
 architect, ltd  
 One Richmond Square  
 Providence, RI 02906  
 401-861-7139

Proposed Design for:  
**Woodland Cove**  
**Phase I**  
 Buildings E, F, & COMMUNITY BUILDING  
 3102 Cranberry Highway  
 Wareham, MA 02532



SHEET CONTENTS:  
 Building F  
 First and Second Floor  
 Lighting Plans:  
 Proposed

PROJECT # 1420  
 DATE: 9/22/2020  
 REVISED DATE:  
 REVISED: 02/16/2021

E3.1

CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

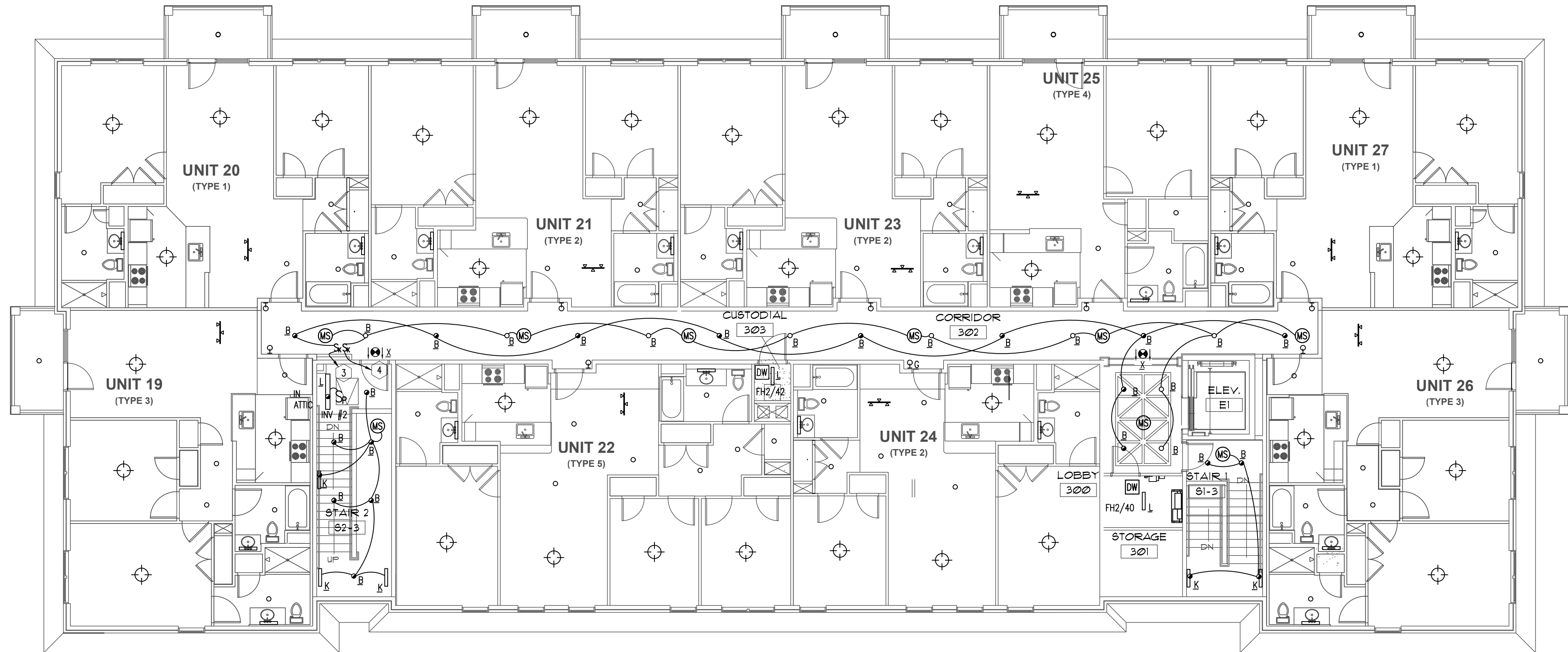


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11 Briggs Road  
Foster RI 02825  
Tel: 401.500.2538  
pdts@trinityeng.com

Ed Wojcik  
architect, ltd  
One Richmond Square  
Providence, RI 02906  
401-861-7139

- SHEET NOTES:
- 1 POWER ALL LIGHTS IN STAIR #1 FROM INVERTER #1 THROUGH KEY SWITCH.
  - 2 POWER ALL LIGHTS IN STAIR #2 FROM INVERTER #1 THROUGH KEY SWITCH.
  - 3 POWER FROM INVERTER #2.
  - 4 WIRE MOTION SENSORS TO TURN ON ALL LIGHTS ON THIS SWITCH WHEN ANY ONE MOTION SENSOR IS TRIGGERED. POWER FROM FH2/42.
  - 5 POWER BATHROOM SWITCHES AND LIGHTS FROM BATHROOM RECEPTACLE. GFCI PROTECT ALL. (CIRCUIT F\*/10).
  - 6 POWER ALL LIGHTING FIXTURES WITHIN ONE DWELLING UNIT FROM ONE BRANCH CIRCUIT (F\*/2), EXCEPT BATHROOM LIGHT.

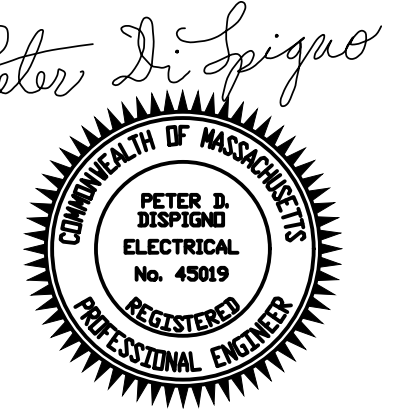


BUILDING F: THIRD FLOOR PLAN

1/8" = 1'-0"

CONSTRUCTION DOCUMENTS — REVISED SET FEBRUARY 16, 2021

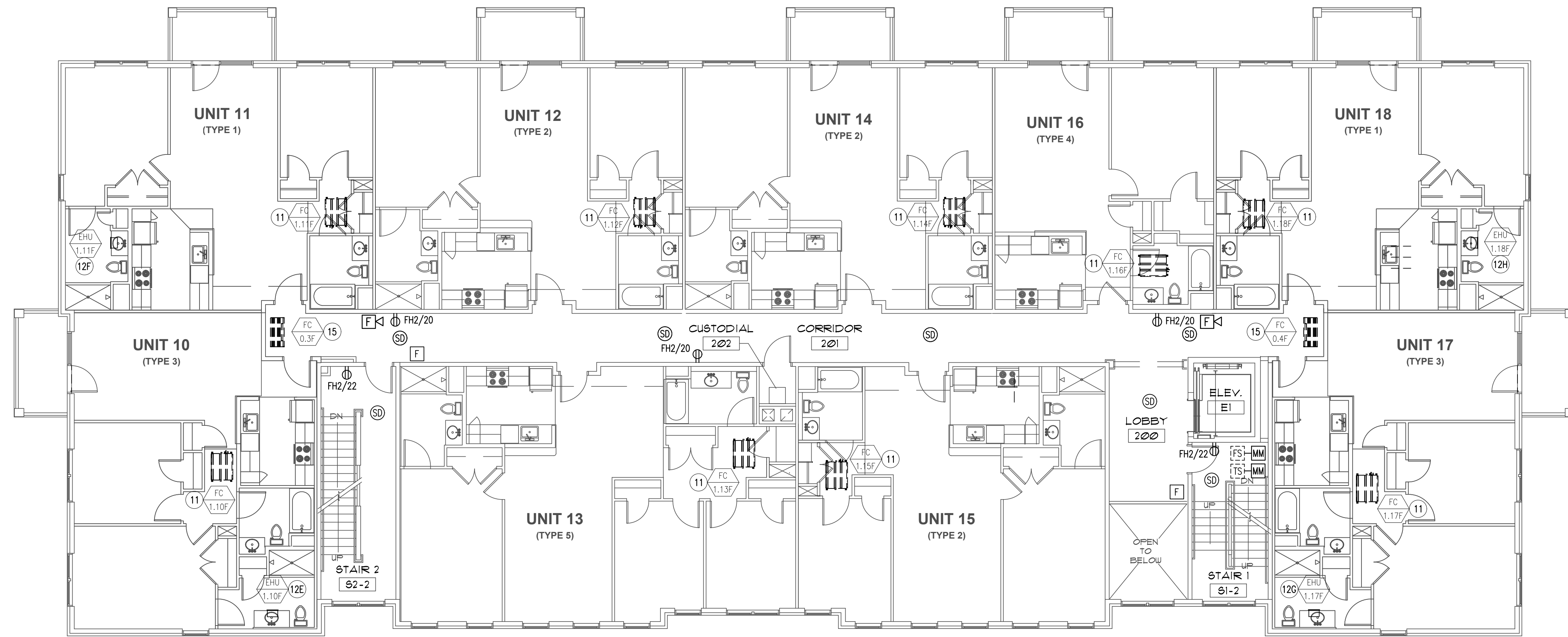
Proposed Design for:  
**Woodland Cove  
Phase I**  
Buildings E, F, & COMMUNITY BUILDING  
3102 Cranberry Highway  
Wareham, MA 02532



SHEET CONTENTS:  
Building F  
Third Floor Lighting Plan:  
Proposed

PROJECT # 1420  
DATE: 9/22/2020  
REVISED DATE:  
△ REVISED: 02/16/2021

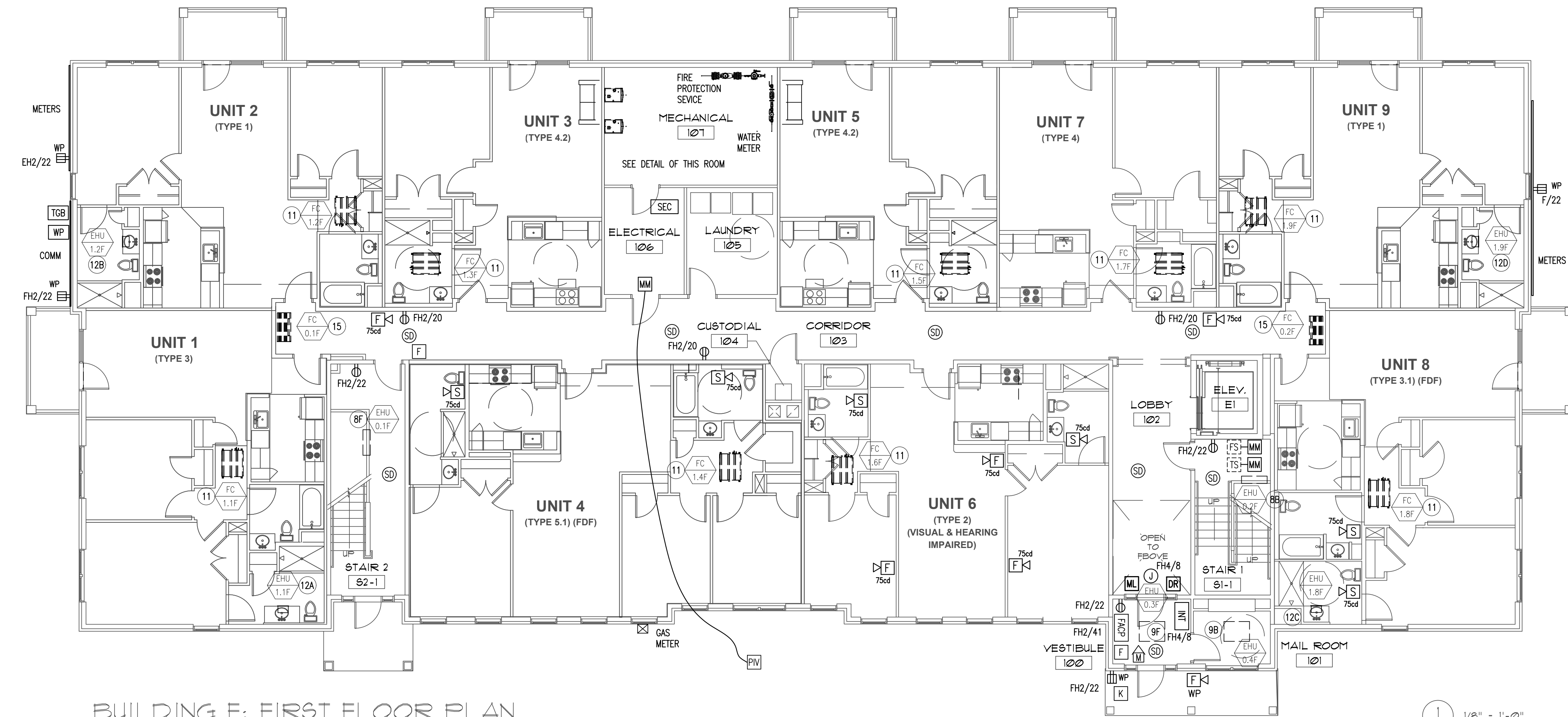
**E3.2**



BUILDING F: SECOND FLOOR PLAN

2 1/8" = 1'-0"

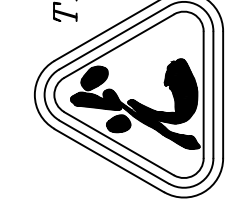
NOTE:  
INDICATES MECHANICAL EQUIPMENT TAG. SEE MECHANICAL CONNECTION SCHEDULES DETAILS.



BUILDING F: FIRST FLOOR PLAN

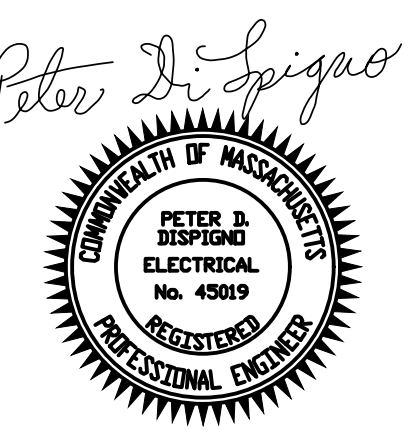
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TRINITY ENGINEERING RI  
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Foster RI 02825  
Tel: 401.500.2538  
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architect, ltd  
One Richmond Square  
Providence, RI 02906  
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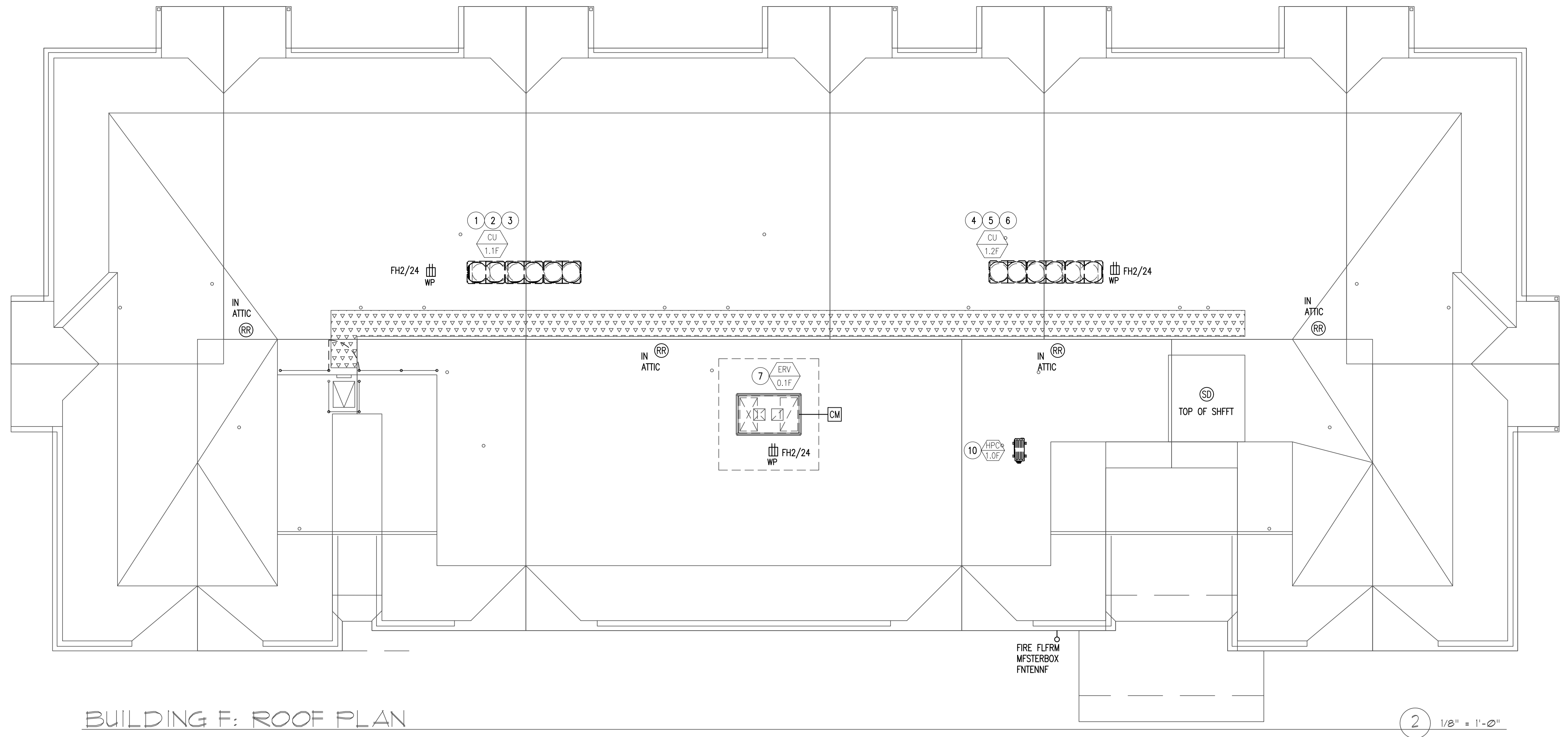
SHEET CONTENTS:  
Building F  
First and Second Floor Power  
& Fire Alarm Plans:  
Proposed

PROJECT # 1420  
DATE: 9/22/2020  
REVISED DATE:  
REVISED: 02/16/2021

**E3.3**

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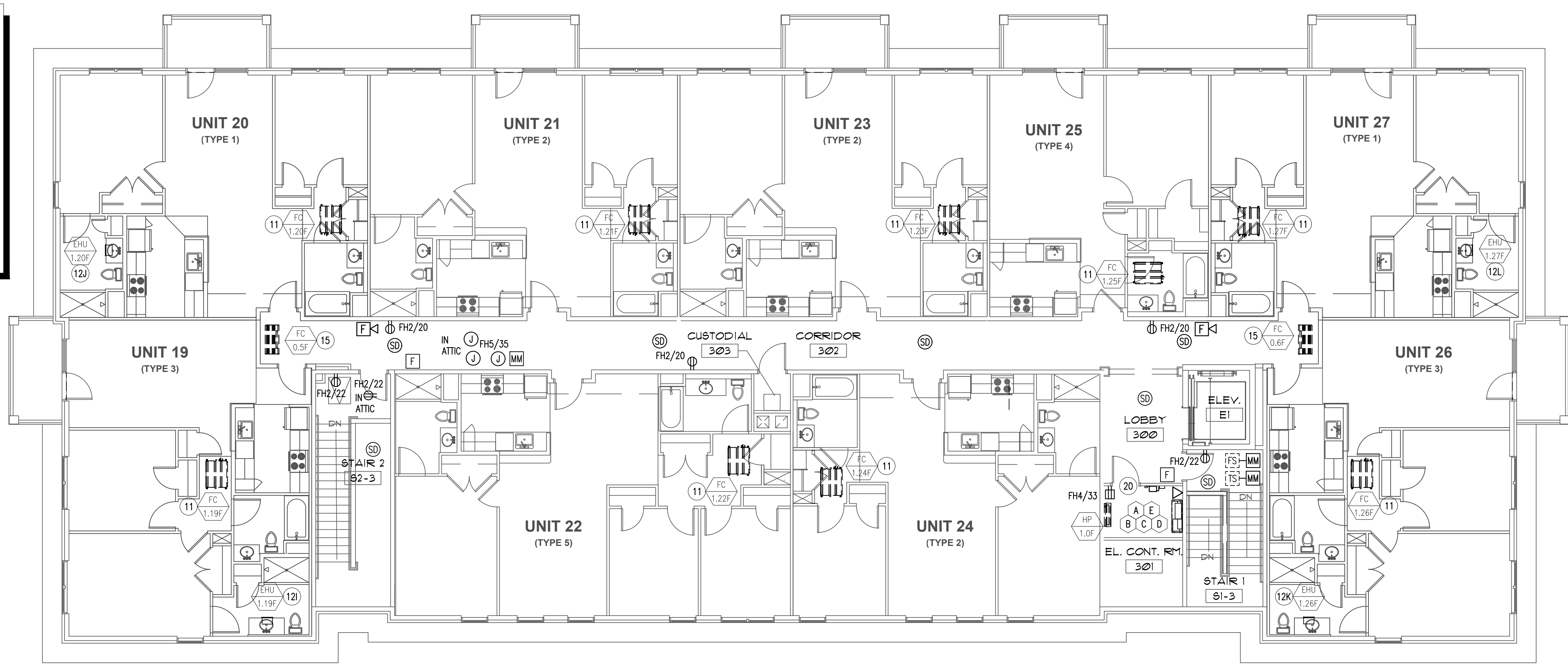


BUILDING F: ROOF PLAN

2 1/8" = 1'-0"

- ELEVATOR NOTES:**
- A PROVIDE A NEW HEAVY DUTY DISCONNECT SWITCH WITH AUXILIARY CONTACTS AS NEEDED, AND A NEW FEEDER BACK TO PANEL \*H1. EXTEND WIRING TO ELEVATOR CONTROLS AND MOTOR.
  - B PROVIDE A DEDICATED BRANCH CIRCUIT AND A 15 AMP MANUAL MOTOR STARTER WITH OVERLOAD ELEMENT THAT CAN BE LOCKED IN THE OFF POSITION (FOR THE CAB). POWER FROM \*H4/31.
  - C PROVIDE A TERMINAL CABINET AND CONDUIT PER VENDOR FOR SECURITY WIRING AND VIDEO WIRING.
  - D PROVIDE FIRE ALARM SYSTEM CONTROL MODULES FOR ELEVATOR CAPTURE CONTROLS.
  - E PROVIDE ADDITIONAL FIRE ALARM SYSTEM CONTROL MODULE(S) FOR BYPASS OF SECURITY CONTROLS AND AS NEEDED FOR OTHER FUNCTIONS.

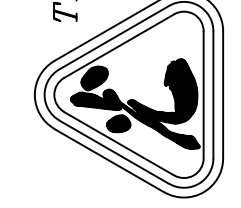
NOTE:  
# INDICATES MECHANICAL EQUIPMENT TAG. SEE MECHANICAL CONNECTION SCHEDULES DETAILS.



BUILDING F: THIRD FLOOR PLAN

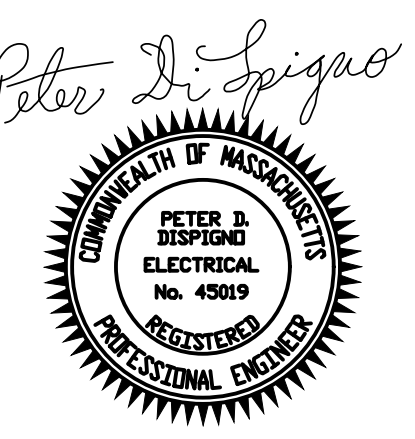
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**Ed Wojcik**  
architect, ltd  
One Richmond Square  
Providence, RI 02906  
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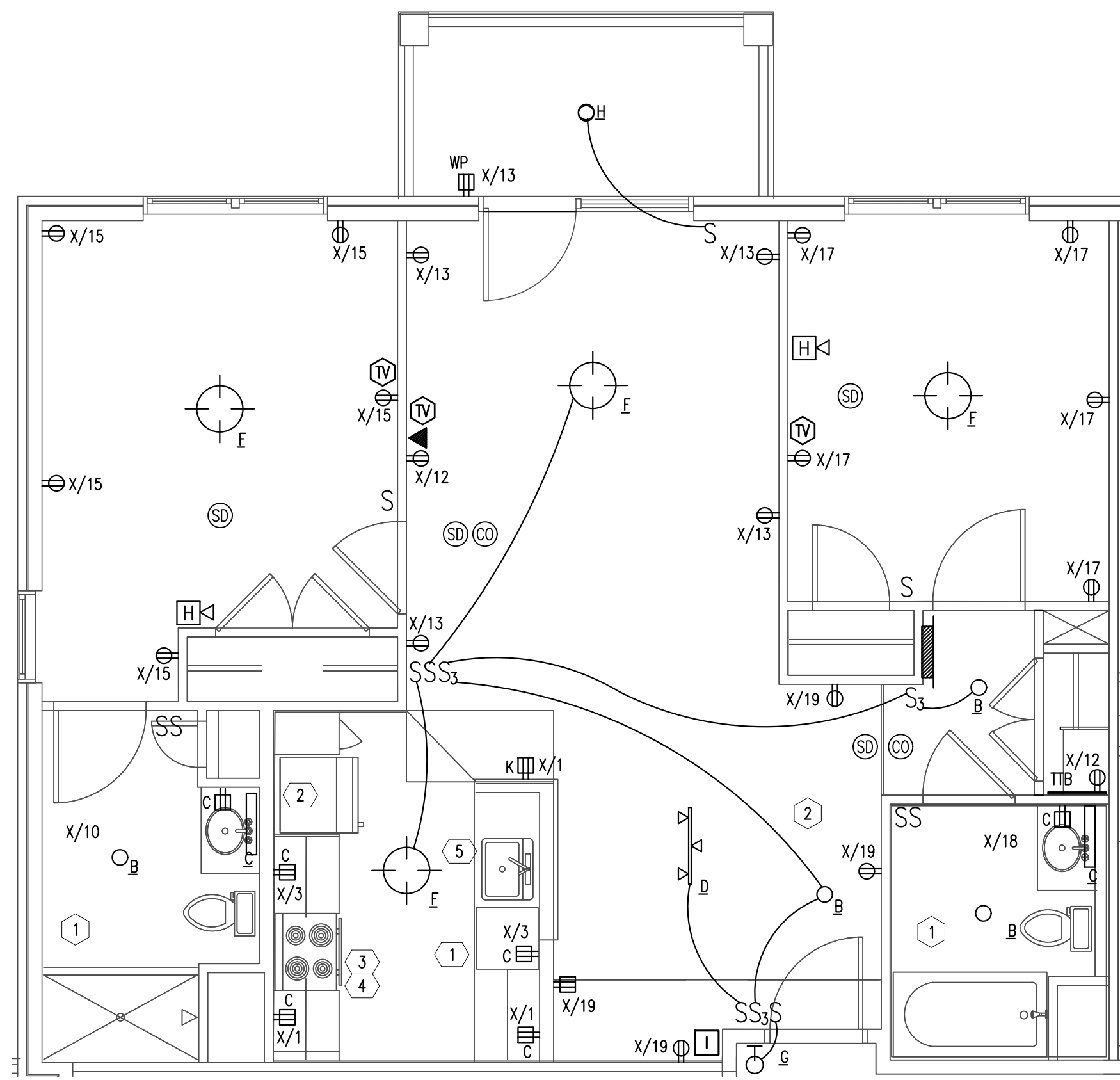
SHEET CONTENTS:  
Building F  
Third Floor and Roof Power &  
Fire Alarm Plans:  
Proposed

PROJECT # 1420  
DATE: 9/22/2020  
REVISED DATE:  
REVISED: 02/16/2021

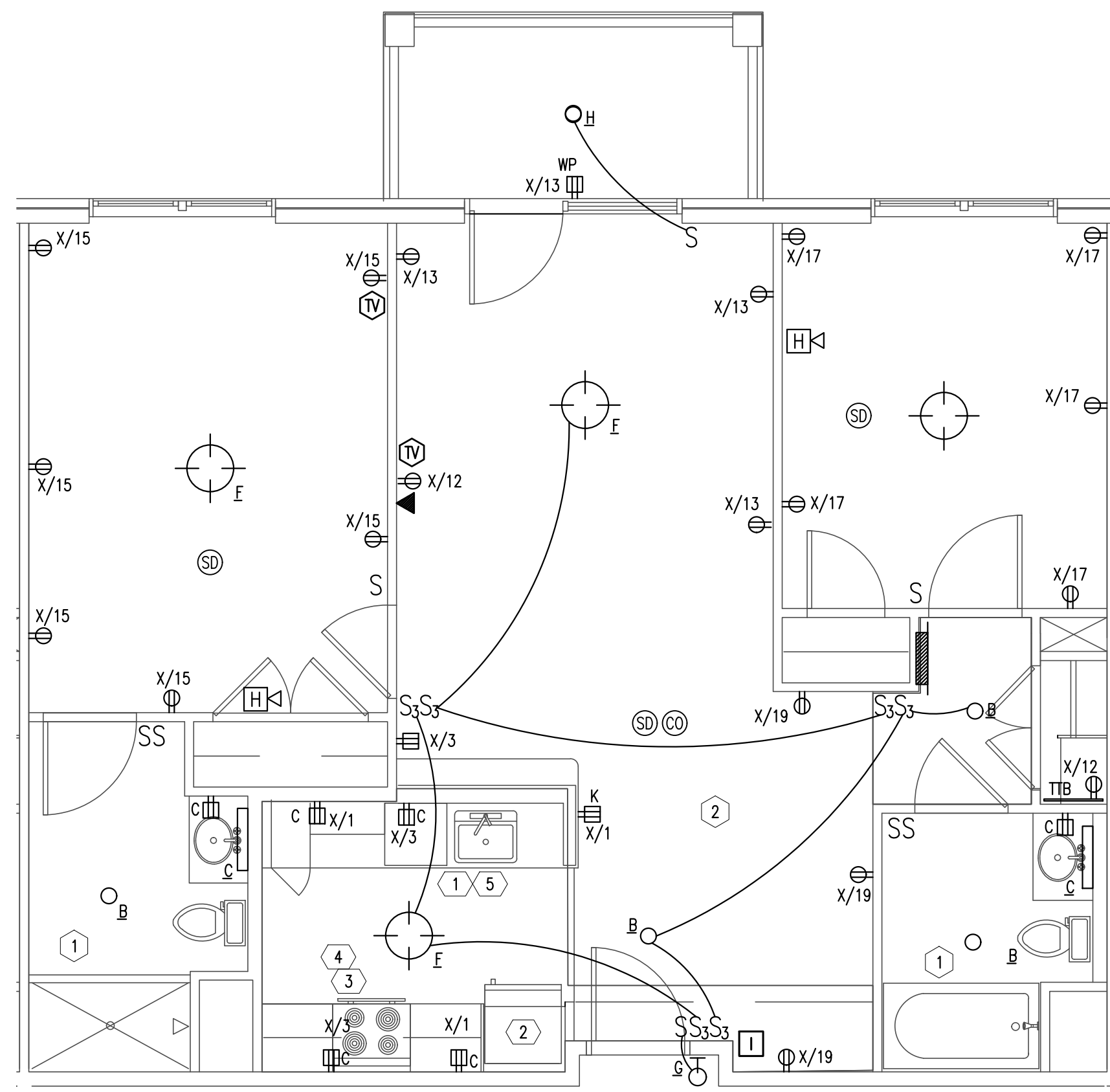
**E3.4**

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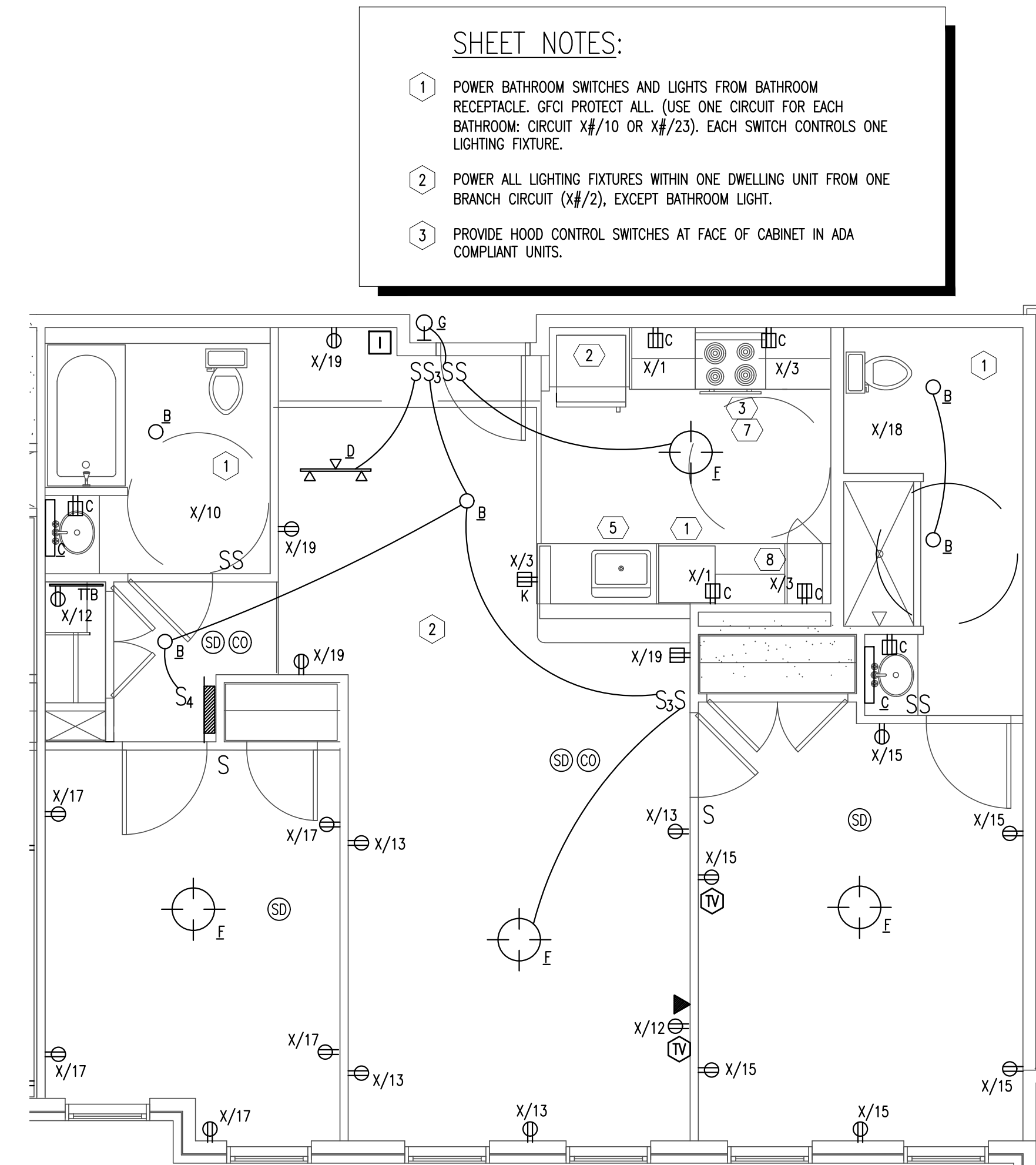
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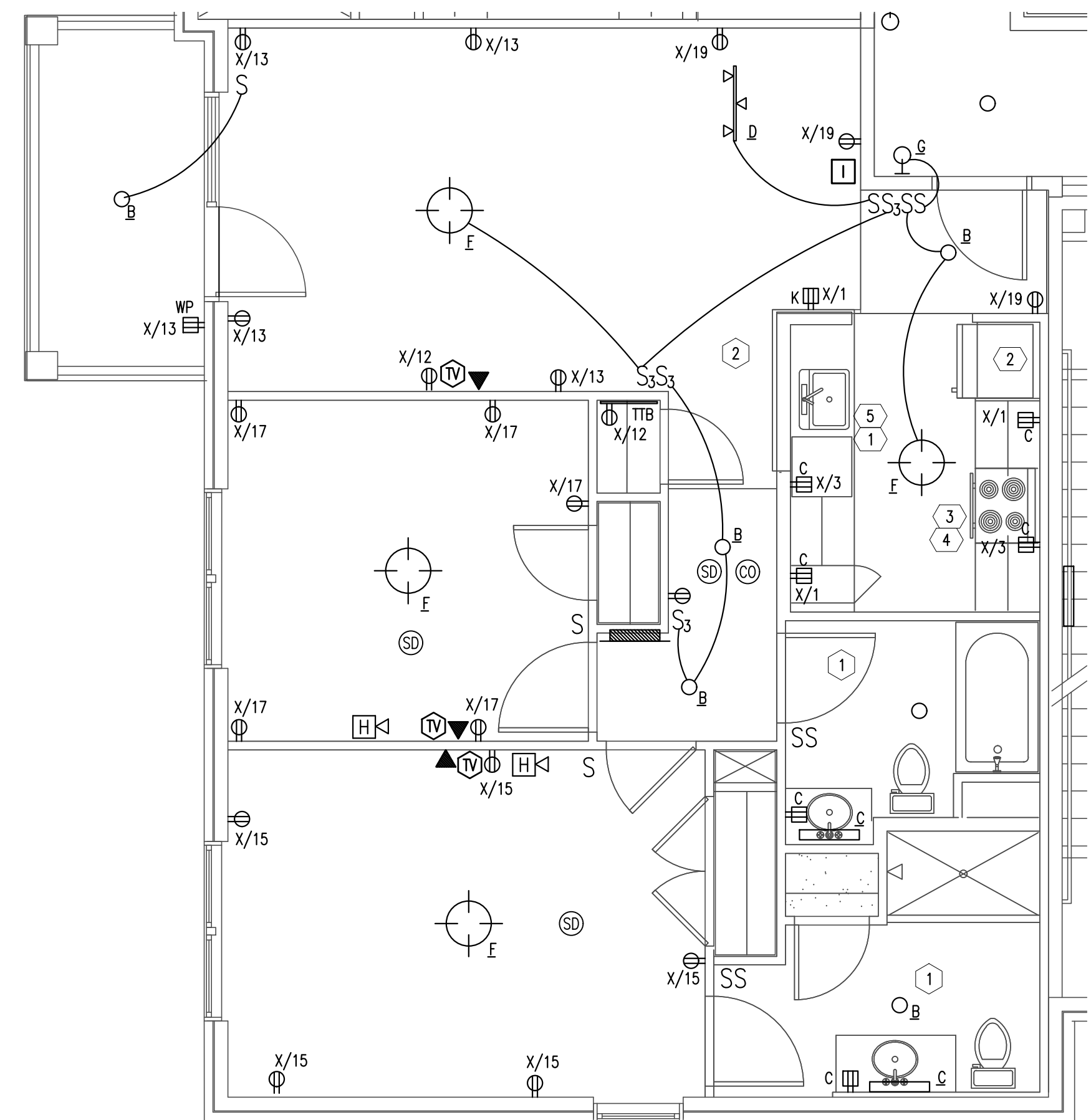
TYPE 1 UNIT PLAN TYPICAL  
TWO BEDROOM: GROUP 1



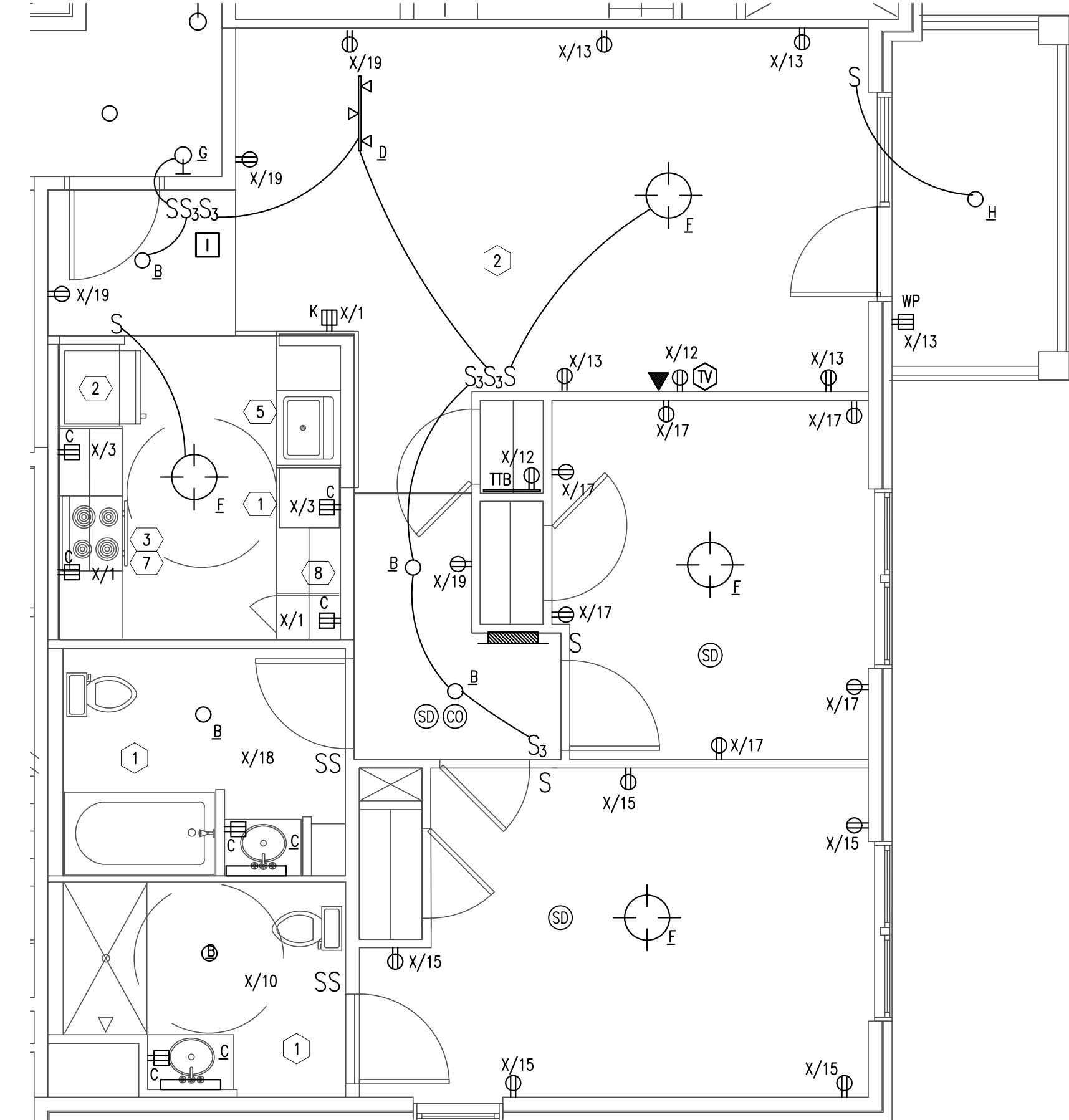
TYPE 2 UNIT PLAN TYPICAL  
TWO BEDROOM: GROUP 1



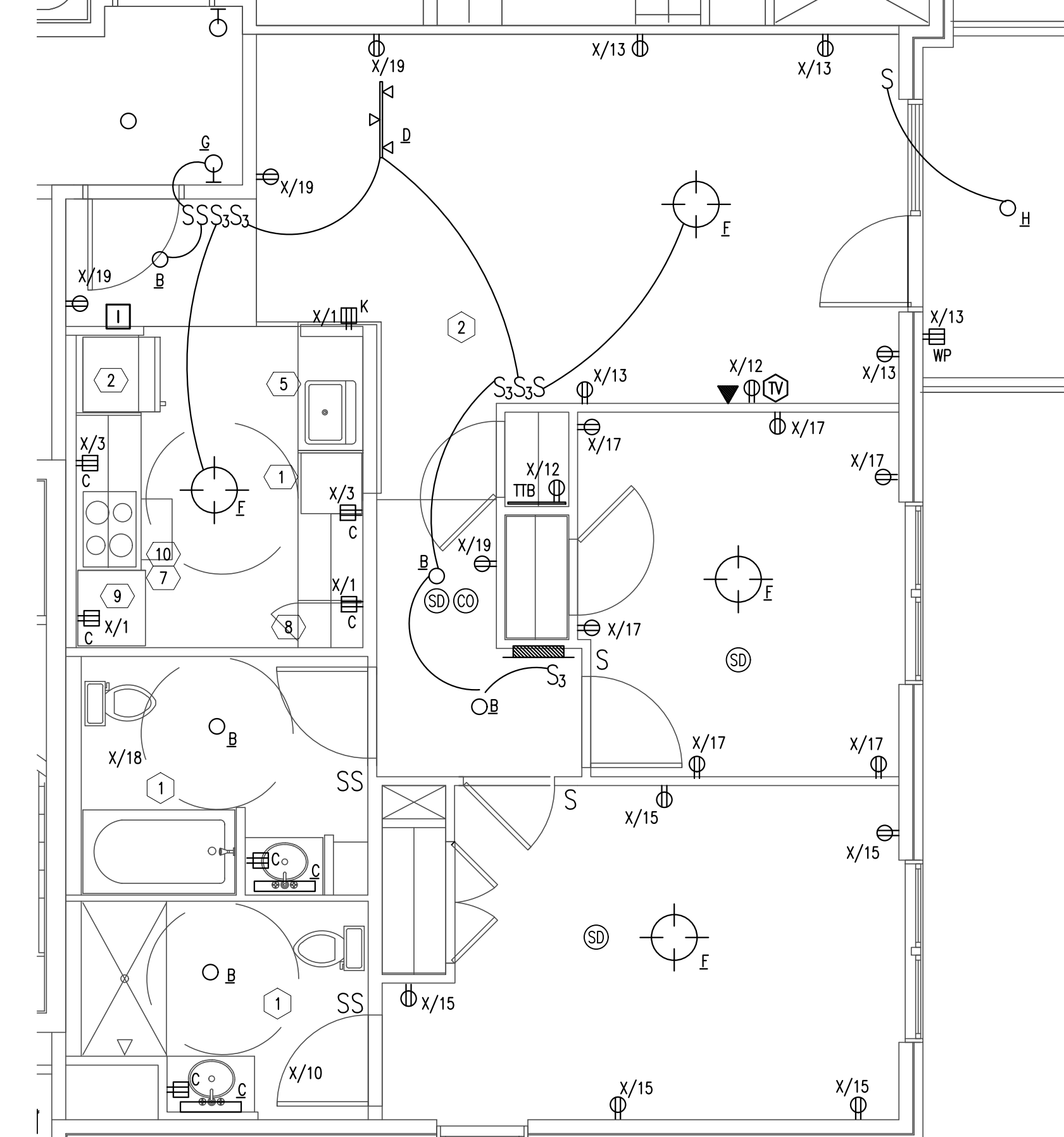
TYPE 2.1 UNIT PLAN  
TWO BEDROOM: ADA



TYPE 3 UNIT PLAN TYPICAL  
TWO BEDROOM: GROUP 1

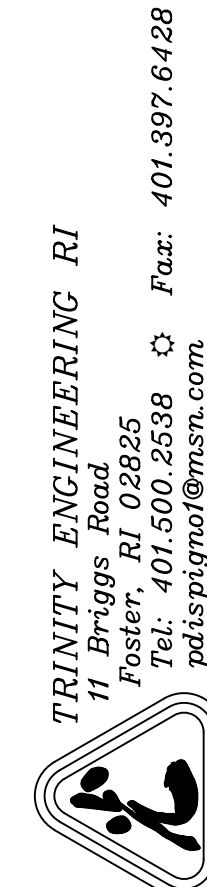


TYPE 3.1 UNIT PLAN  
TWO BEDROOM: ADA



TYPE 3.2 UNIT PLAN  
TWO BEDROOM: GROUP 2A

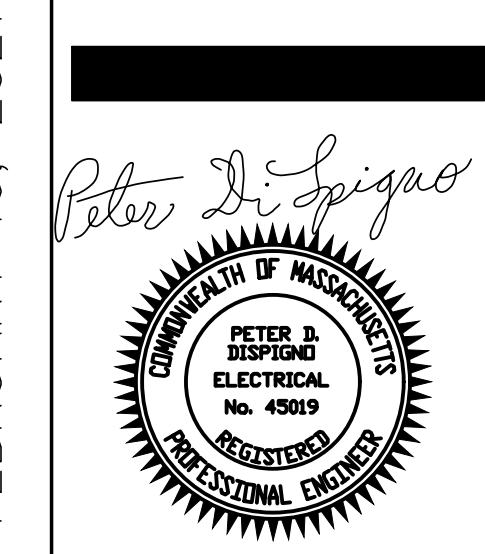
- SHEET NOTES:**
- POWER BATHROOM SWITCHES AND LIGHTS FROM BATHROOM RECEPTACLE. GFCI PROTECT ALL. (USE ONE CIRCUIT FOR EACH BATHROOM: CIRCUIT X#/10 OR X#/23). EACH SWITCH CONTROLS ONE LIGHTING FIXTURE.
  - POWER ALL LIGHTING FIXTURES WITHIN ONE DWELLING UNIT FROM ONE BRANCH CIRCUIT (X#/2), EXCEPT BATHROOM LIGHT.
  - PROVIDE HOOD CONTROL SWITCHES AT FACE OF CABINET IN ADA COMPLIANT UNITS.



**Ed Wojcik**  
architect, ltd  
One Richmond Square  
Providence, RI 02906  
401-861-7139

TRINITY ENGINEERING RI  
11 Briggs Road  
Foster RI 02895  
Tel: 401-500-2538 Fax: 401-397-6428  
patispi@trinityeng.com

Proposed Design for:  
**Woodland Cove**  
**Phase 1**  
Buildings E, F, & COMMUNITY BUILDING  
3102 Cranberry Highway  
Wareham, MA 02532



SHEET CONTENTS:  
Unit Types 1, 2,\*, & 3.1:  
Proposed

PROJECT # 1420  
DATE: 9/22/2020  
REVISED DATE:  
REVISED: 02/16/2021

**E4.1**

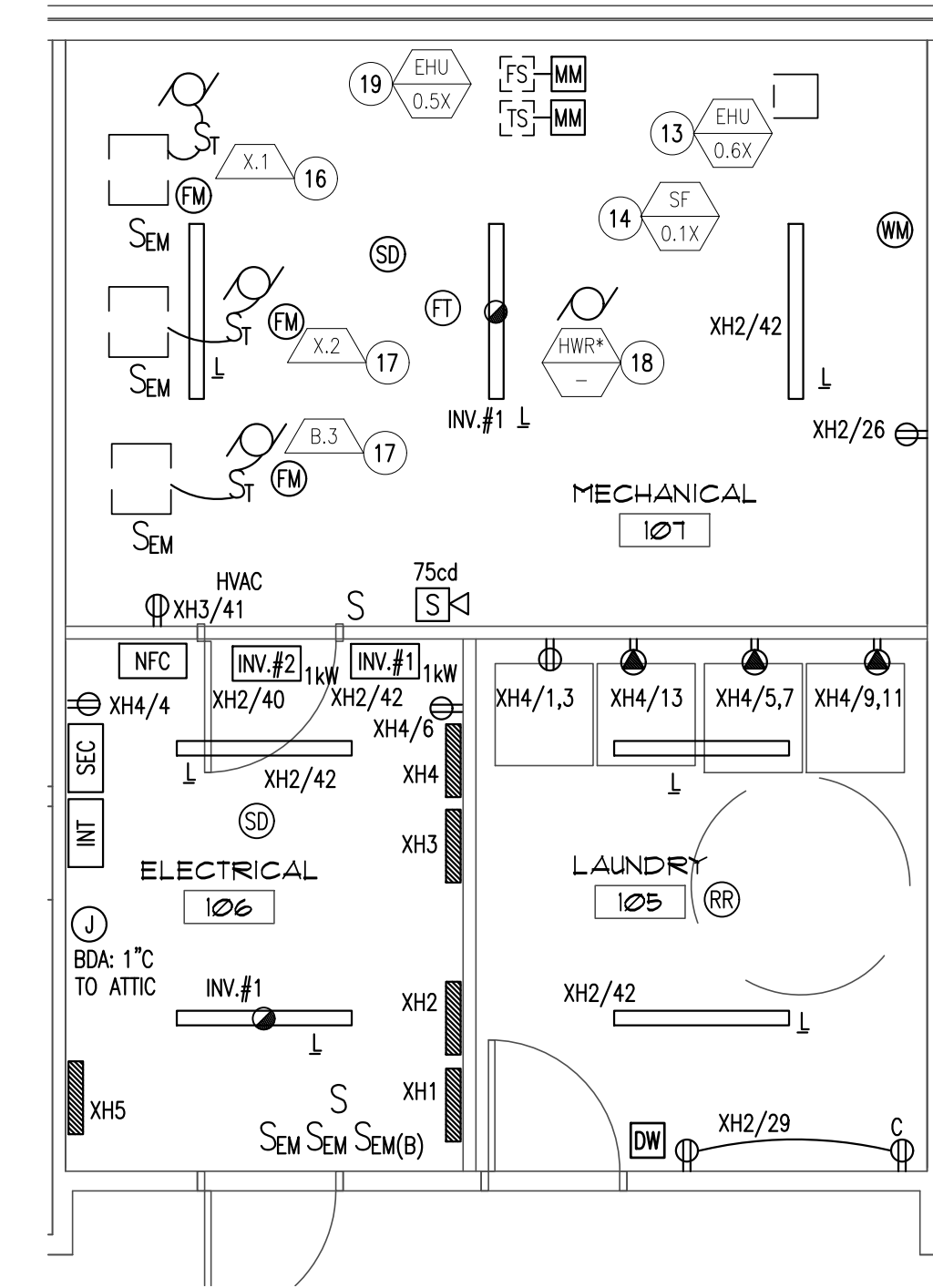
CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

EQUIP (ID#)	DESCRIPTION	VOLTS	PH	AMPS	KW	PANEL	CIRCUIT #	BREAKER SIZE	FEEDER AND CONDUIT	NEMA RECEPTACLE	DISCONNECT SWITCH				NOTES
											SIZE	FUSE	POLES	NEMA	
1	DISHWASHER	120	1	6.2	0.75	*#	7	20	2#12+1#12G	5-20R	NA	NA	NA	NA	2
2	REFRIGERATOR	120	1	15	1.8	*#	5	20	2#12+1#12G	5-20R	NA	NA	NA	NA	
3	RANGE	208	1	39.9	8.3	*#	6,8	40	3#6+1#10G	MATCH CORD	NA	NA	NA	NA	2,3
4	MICROWAVE OVEN	120	1	14	1.6	*#	11	20	2#12+1#12G	5-20R	NA	NA	NA	NA	
5	DISPOSAL	120	1	13.8	1.66	*#	9	20	2#12+1#12G	-	NA	NA	NA	NA	1
7	HOOD	120	1	2.5	0.3	*#	7	-	2#12+1#12G	-	NA	NA	NA	NA	
8	COUNTERTOP MICRO.	120	1	9.2	1.1	*#	11	-	2#12+1#12G	-	NA	NA	NA	NA	
9	WALL OVEN	208	1	15.4	3.2	*#	18,20	20	3#10.+1#10G	MATCH OVEN	NA	NA	NA	NA	
10	COOKTOP	208	1	26.7	5.6	*#	6,8	40	3#8+1#10G	MATCH COOKTOP	NA	NA	NA	NA	

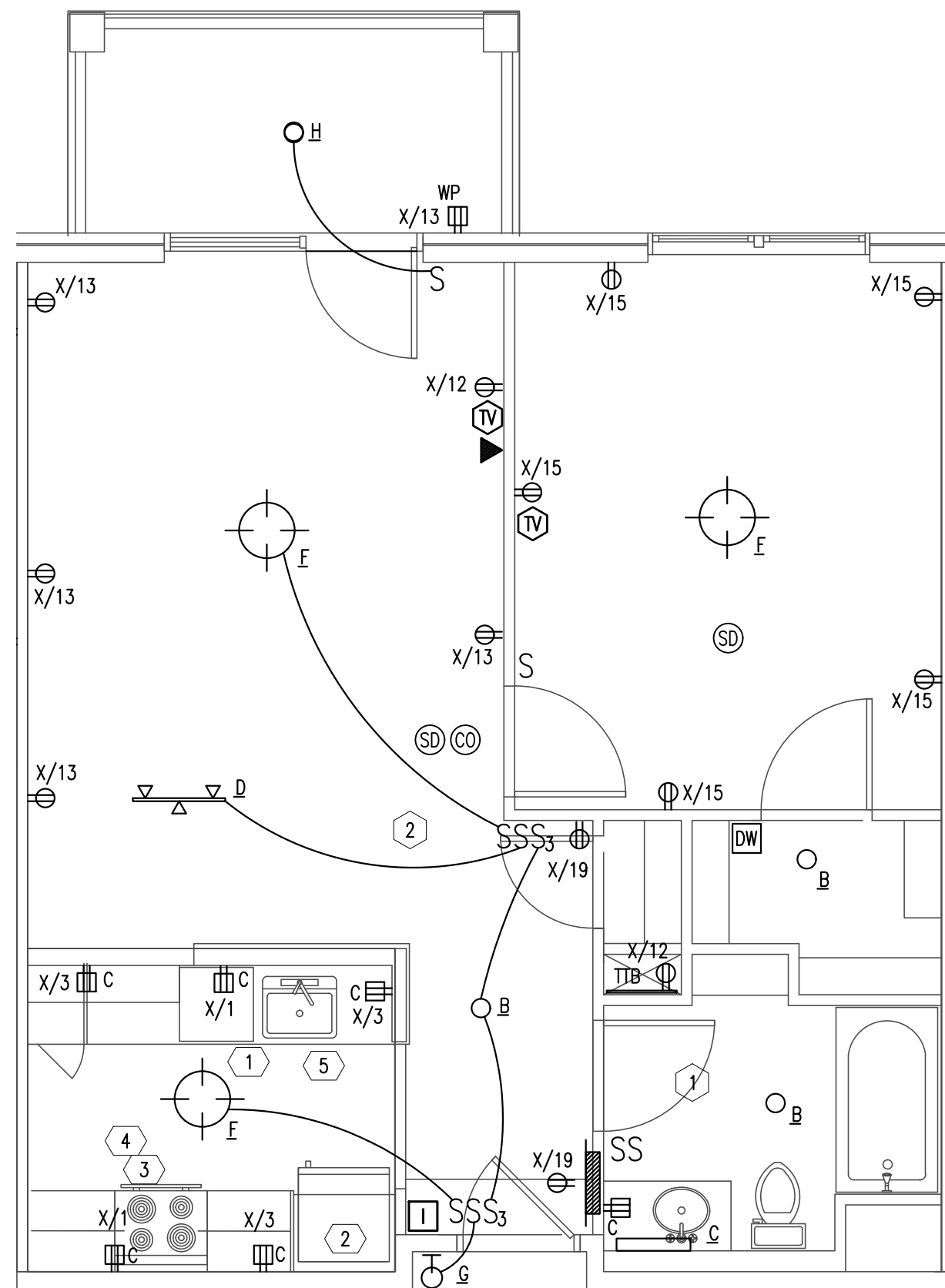
NOTES:  
 1. PROVIDE SWITCH (NOT SHOWN) ABOVE COUNTER.  
 2. PROVIDE CORD, IF NEEDED.  
 3. SEE CUT SHEET FOR LOCATION OF RECEPTACLE.  
 \* = BUILDING LETTER  
 # = DWELLING UNIT NUMBER

**SHEET NOTES:**

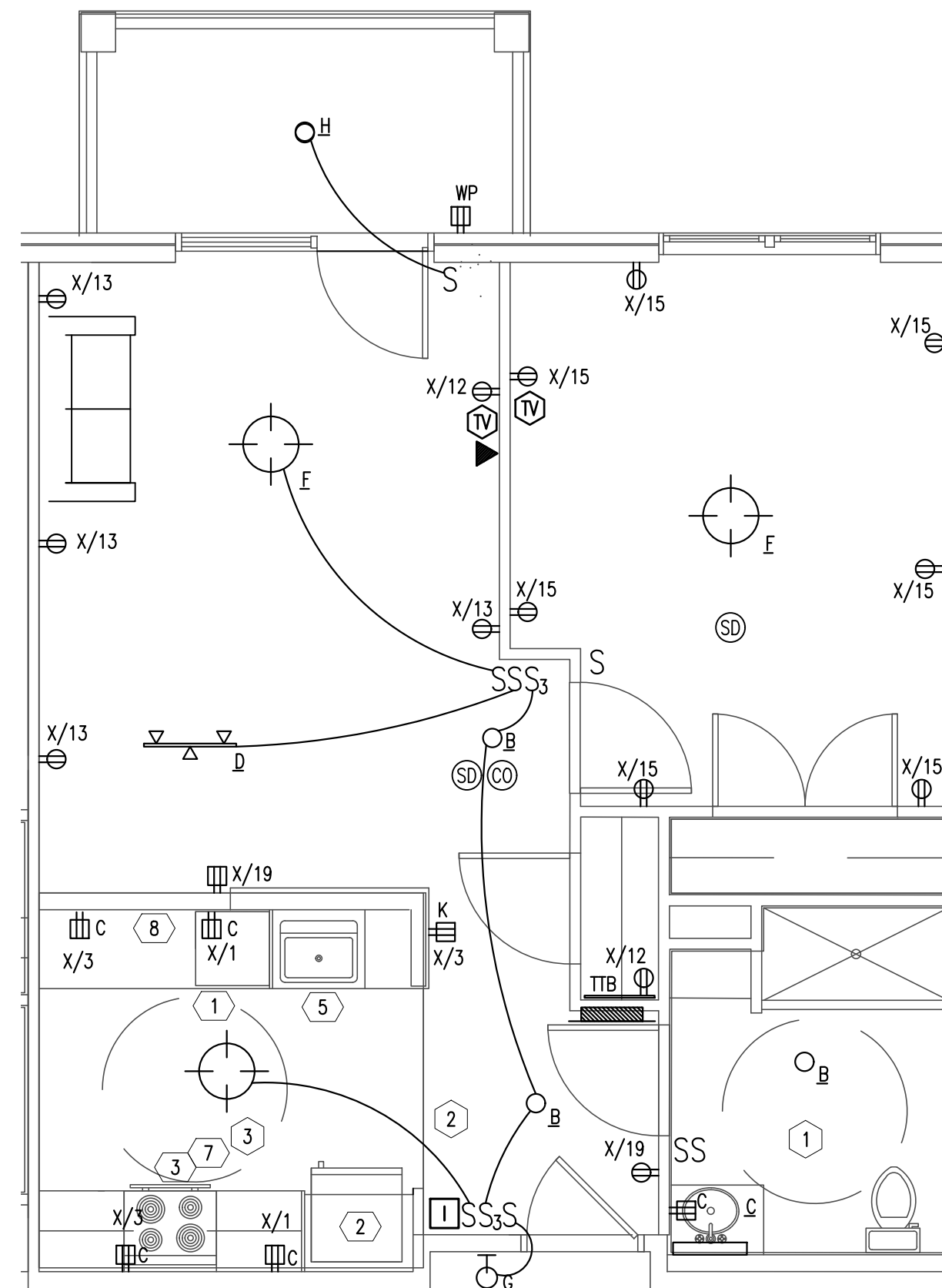
- POWER BATHROOM SWITCHES AND LIGHTS FROM BATHROOM RECEPTACLE. GFCI PROTECT ALL. (USE ONE CIRCUIT FOR EACH BATHROOM: CIRCUIT X#/10 OR X#/23). EACH SWITCH CONTROLS ONE LIGHTING FIXTURE.
- POWER ALL LIGHTING FIXTURES WITHIN ONE DWELLING UNIT FROM ONE BRANCH CIRCUIT (X#/2), EXCEPT BATHROOM LIGHT.
- PROVIDE HOOD CONTROL SWITCHES AT FACE OF CABINET IN ADA COMPLIANT UNITS.



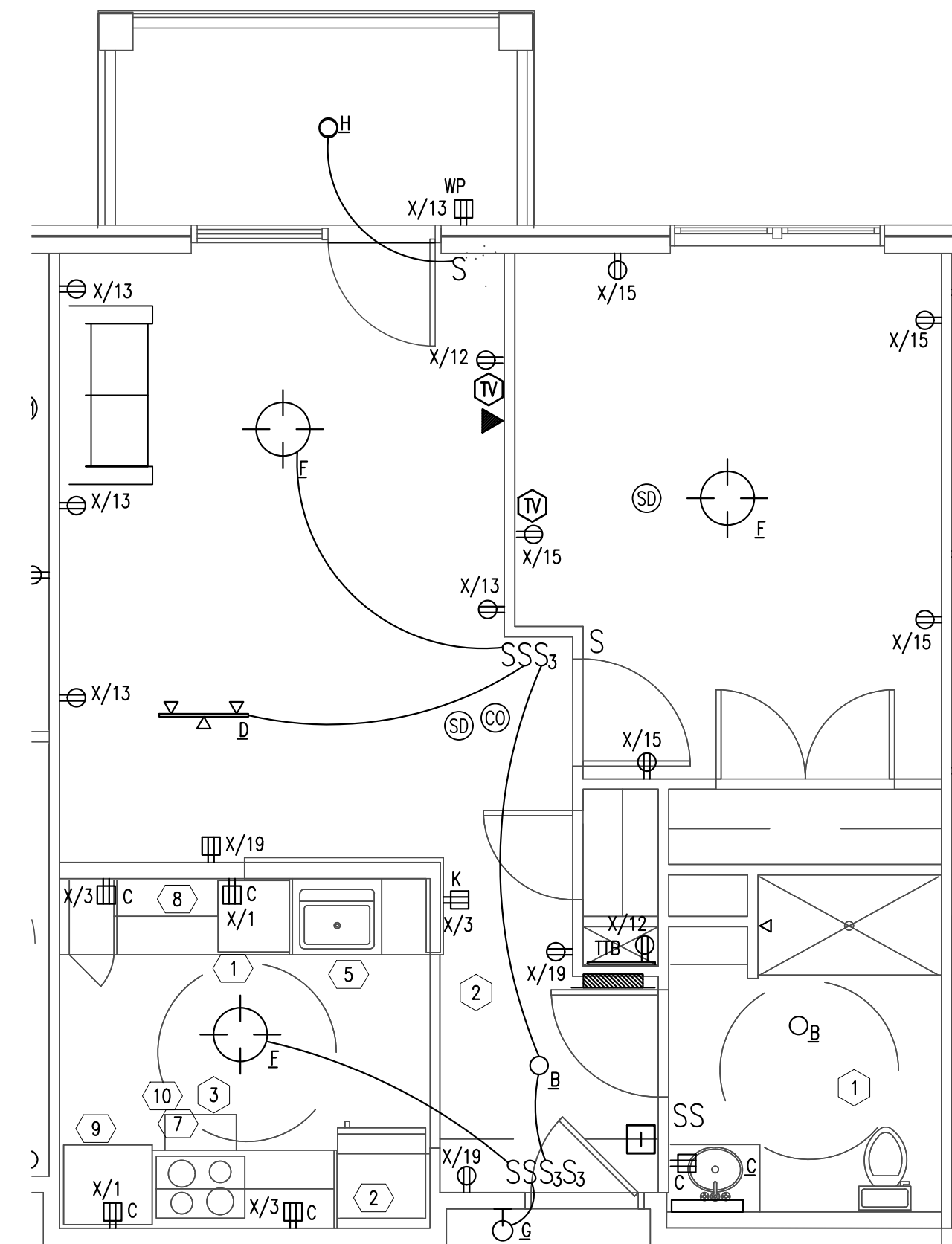
**UTILITY AREA DETAIL** 4 1/4" = 1'-0"  
 MECH., EL., 4 LAUNDRY



**UNIT TYPE 4 TYPICAL** 1 1/4" = 1'-0"  
 ONE BEDROOM: GROUP 1



**UNIT TYPE 4.1** 2 1/4" = 1'-0"  
 ONE BEDROOM: ADA



**UNIT TYPE 4.2** 3 1/4" = 1'-0"  
 ONE BEDROOM: GROUP 2A

TRINITY ENGINEERING RI  
 11 Briggs Road  
 Foster RI 02895  
 Tel: 401.500.2538  
 Fax: 401.397.6428  
 pdts@trinityeng.com

**Ed Wojcik**  
 architect, ltd  
 One Richmond Square  
 Providence, RI 02906  
 401-861-7139

Proposed Design for:  
**Woodland Cove**  
**Phase I**  
 Buildings E, F, & COMMUNITY BUILDING  
 3102 Cranberry Highway  
 Wareham, MA 02532



**SHEET CONTENTS:**

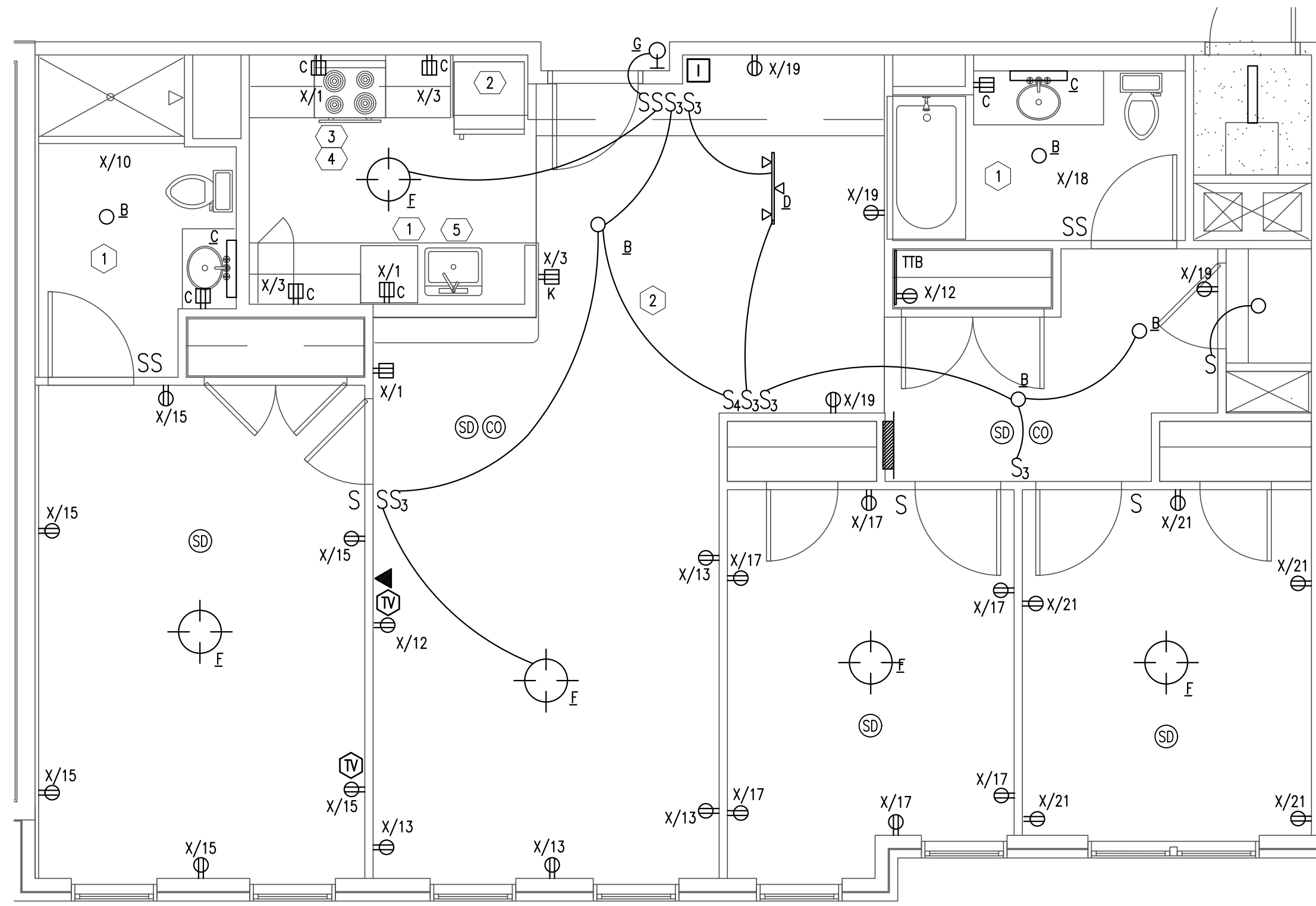
Unit Types 4.\* and  
 Utility Area Detail:  
 Proposed

PROJECT # 1420

DATE: 9/22/2020  
 REVISED DATE:  
 REVISED: 02/16/2021

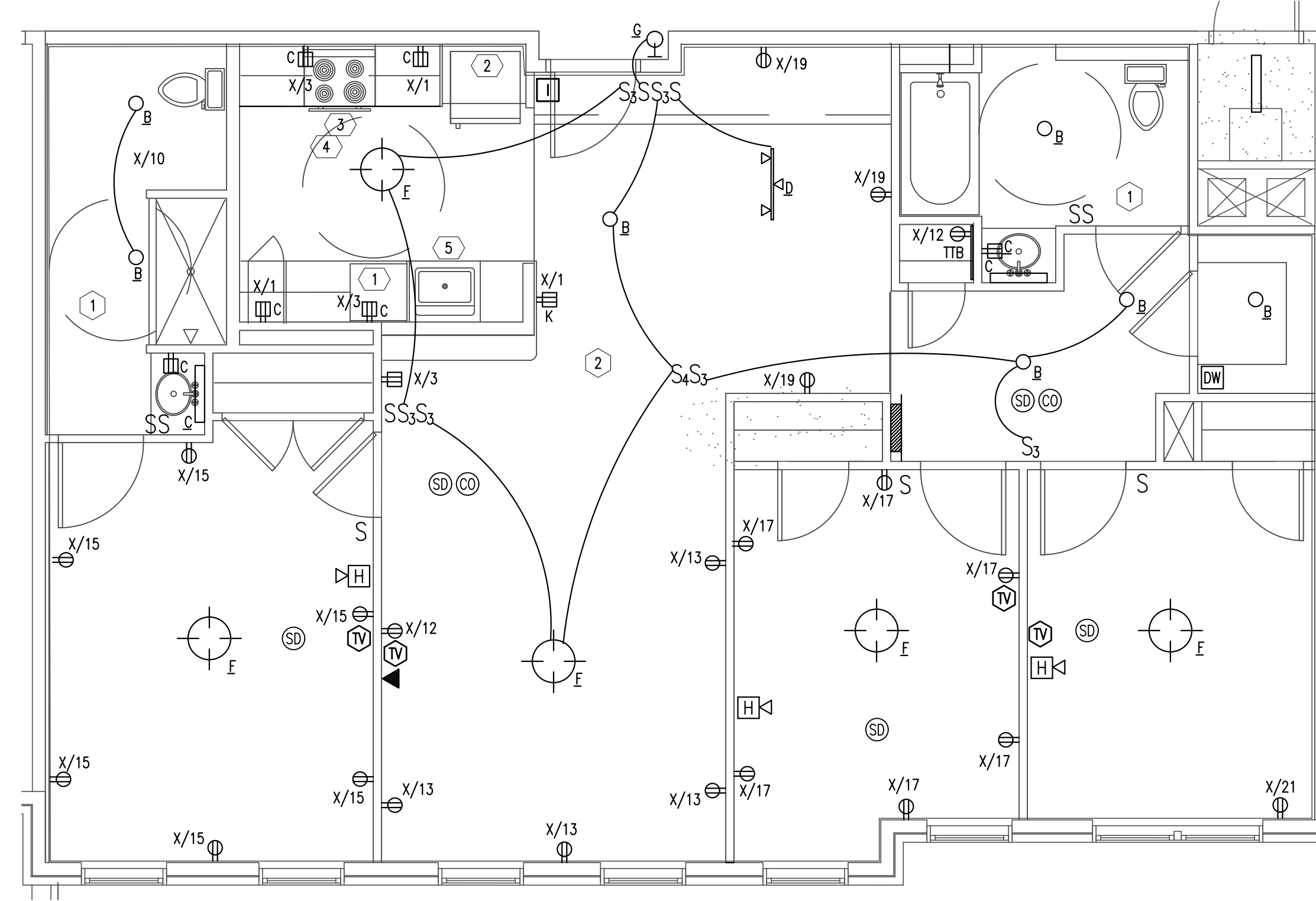
**E4.2**

CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021



**UNIT TYPE 5 TYPICAL**  
THREE BEDROOM: GROUP 1

1 1/4" = 1'-0"



**UNIT TYPE 5.1**  
THREE BEDROOM: ADA

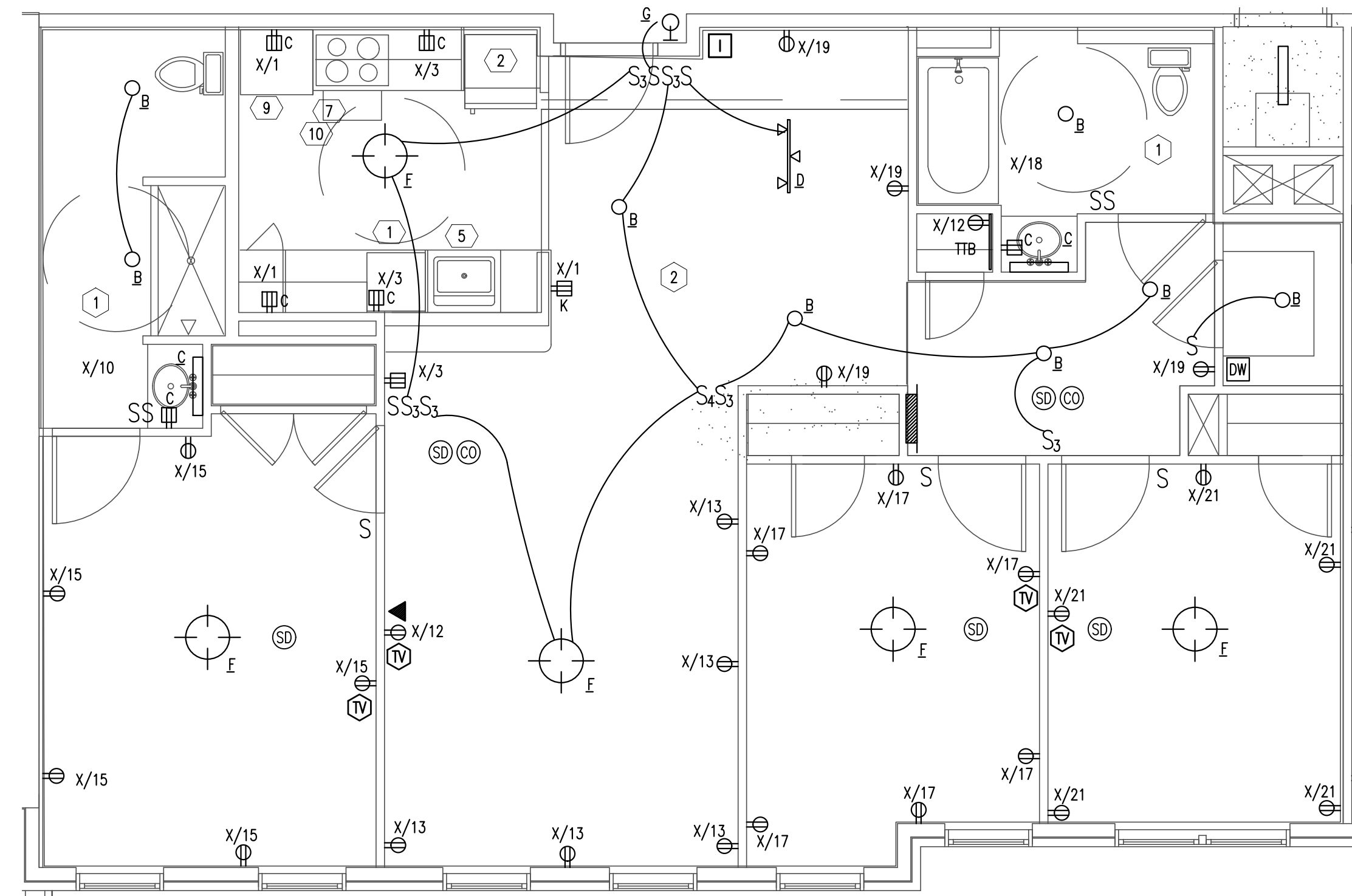
2 1/4" = 1'-0"

ELECTRICAL CONNECTION SCHEDULE FOR DWELLING UNIT EQUIPMENT IN BUILDINGS E & F															
EQUIP (ID#)	DESCRIPTION	VOLTS	PH	AMPS	KW	PANEL	CIRCUIT #	BREAKER SIZE	FEEDER AND CONDUIT	NEMA RECEPTACLE	DISCONNECT SWITCH				NOTES
											SIZE	FUSE	POLES	NEMA	
1	DISHWASHER	120	1	6.2	0.75	*#	7	20	2#12+1#12G	5-20R	NA	NA	NA	NA	2
2	REFRIGERATOR	120	1	15	1.8	*#	5	20	2#12+1#12G	5-20R	NA	NA	NA	NA	
3	RANGE	208	1	39.9	8.3	*#	6,8	40	3#6+1#10G	MATCH CORD	NA	NA	NA	NA	2,3
4	MICROWAVE OVEN	120	1	14	1.6	*#	11	20	2#12+1#12G	5-20R	NA	NA	NA	NA	
5	DISPOSAL	120	1	13.8	1.66	*#	9	20	2#12+1#12G	-	NA	NA	NA	NA	1
7	HOOD	120	1	2.5	0.3	*#	7	-	2#12+1#12G	-	NA	NA	NA	NA	
8	COUNTERTOP MICRO.	120	1	9.2	1.1	*#	11	-	2#12+1#12G	-	NA	NA	NA	NA	
9	WALL OVEN	208	1	15.4	3.2	*#	18,20	20	3#10.+1#10G	MATCH OVEN	NA	NA	NA	NA	
10	COOKTOP	208	1	26.7	5.6	*#	6,8	40	3#6+1#10G	MATCH COOKTOP	NA	NA	NA	NA	

NOTES:  
 1. PROVIDE SWITCH (NOT SHOWN) ABOVE COUNTER.  
 2. PROVIDE CORD, IF NEEDED.  
 3. SEE CUT SHEET FOR LOCATION OF RECEPTACLE.  
 \* = BUILDING LETTER  
 # = DWELLING UNIT NUMBER

**SHEET NOTES:**

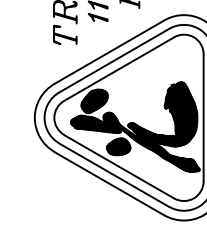
- 1 POWER BATHROOM SWITCHES AND LIGHTS FROM BATHROOM RECEPTACLE. GFCI PROTECT ALL. (USE ONE CIRCUIT FOR EACH BATHROOM: CIRCUIT X#/10 OR X#/23). EACH SWITCH CONTROLS ONE LIGHTING FIXTURE.
- 2 POWER ALL LIGHTING FIXTURES WITHIN ONE DWELLING UNIT FROM ONE BRANCH CIRCUIT (X#/2), EXCEPT BATHROOM LIGHT.
- 3 PROVIDE HOOD CONTROL SWITCHES AT FACE OF CABINET IN ADA COMPLIANT UNITS.



**UNIT TYPE 5.2**  
THREE BEDROOM: GROUP 2A

3 1/4" = 1'-0"

TRINITY ENGINEERING RI  
 11 Briggs Road  
 Foster RI 02825  
 Tel: 401.500.2538  
 Fax: 401.397.6428  
 pdavis@trinityeng.com



**Ed Wojcik**  
 architect, ltd  
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 3102 Cranberry Highway  
 Wareham, MA 02532

*Peter Di Spigaro*  
  
 REGISTERED PROFESSIONAL ENGINEER

SHEET CONTENTS:  
 Unit Types 5.\*:  
 Proposed

PROJECT # 1420  
 DATE: 9/22/2020  
 REVISED DATE:  
 REVISED: 02/16/2021

**E4.3**

CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

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## INSTALL/COMMISSIONING NOTES

- 1.) Cable**
- All cable and conduit shall be provided and installed by the security integrator.
  - Camera Cabling under 328-feet shall consist of a CAT5E, 23AWG.
  - Camera cabling greater than 328-feet shall be an UTP CAT5E Cable with EOL connectors.
- I) All patch cables between head-end components such as switches, video servers, surge protection, etc. shall be CAT5E with the length sized accordingly.
- E) All exposed cabling shall be concealed in EMT conduit and installed per NEC approved methods. All required weather proof junction boxes and fittings shall be provided.
- F) All cabling shall be clearly labeled, identifying what component and port it is connected to.
- G) All system components shall be labeled with their respective MAC address and IP address.
- H) Patch Panels and network cabling shall be tested as part of the installed horizontal or backbone cabling system. Each link or channel in the horizontal or backbone cabling system shall be identified and tested individually, using an industry standard Level III tester with proper settings, including the correct cable NVP value. Each backbone or horizontal link/channel shall be tested to Category 5E parameters listed in the table below. (Note: a level III tester will produce all results below automatically)
- Wire Map / Continuity, Length, Insertion Loss, NEXT, PSNEXT, ELNEXT, PSELFEXT, Delay and Delay Skew, and Return Loss
- A "PASS" indication shall be obtained for each channel or link, using a level III tester.
- Completed test reports shall be submitted to both Safer Places and DAKOTA PARTNERS upon completion of the project.
- 2.) Testing Agency**
- A. Testing Agency: Engage a qualified testing agency to perform tests and inspections.
- B. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect, test, and adjust components, assemblies, and equipment installations, including connections.
- C.
- D. Perform tests and inspections.
1. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect components, assemblies, and equipment installations, including connections, and to assist in testing.
  2. Include Manufacturer On-Site Field Engineering services for one day of system commissioning.
- D. Tests and Inspections:
1. Inspection: Verify that units and controls are properly installed, connected, and labeled, and that interconnecting wires and terminals are identified.
  2. Pretesting: Align and adjust system and pretest components, wiring, and functions to verify that they comply with specified requirements. Conduct tests at varying lighting levels, including day and night scenes as applicable. Prepare video-surveillance equipment for acceptance and operational testing as follows:
    - Prepare equipment list described in "Submittals" Article.
    - Verify operation of auto-iris lenses.
    - Set back-focus of fixed focal length lenses. At focus set to infinity, simulate nighttime lighting conditions by using a dark glass filter of a density that produces a clear image. Adjust until image is in focus with and without the filter.
    - Set back-focus of zoom lenses. At focus set to infinity, simulate nighttime lighting conditions by using a dark glass filter of a density that produces a clear image. Additionally, set zoom to full wide angle and aim camera at an object 50 to 75 feet (17 to 23 m) away. Adjust until image is in focus from full wide angle to full telephoto, with the filter in place.
      - Set and name all preset positions; consult Owner's personnel.
      - Set sensitivity of motion detection.
      - Set sensitivity of motion detection.
      - Verify operation of control-station equipment.
  3. Test Schedule: Schedule tests after pre-testing has been successfully completed and system has been in normal functional operation for at least 14 days. Provide a minimum of 10 days' notice of test schedule.
  4. Operational Tests: Perform operational system tests to verify that system complies with specifications. Test equipment for proper operation in all functional modes.
- E) Video surveillance system will be considered defective if it does not pass tests and inspections.

## SYMBOL SCHEDULE

	HEAD-END EQUIPMENT RACK - VIDEO/ACCESS SERVER, NETWORK SWITCHES, UPS, ETC. SHALL BE LOCATED WITHIN THIS CABINET. REFER TO EQUIPMENT SCHEDULES FOR DETAILS.
	FIXED NETWORK DOME - REFER TO EQUIPMENT SCHEDULES FOR MOUNTING AND CONFIGURATION DETAILS.
	FIXED 4-IMAGER NETWORK DOME - REFER TO EQUIPMENT SCHEDULES FOR MOUNTING AND CONFIGURATION DETAILS.
	FIXED DUAL IMAGER NETWORK DOME - REFER TO EQUIPMENT SCHEDULES FOR MOUNTING AND CONFIGURATION DETAILS.
	FIXED 3-IMAGER NETWORK DOME - REFER TO EQUIPMENT SCHEDULES FOR MOUNTING AND CONFIGURATION DETAILS.
	TELEPHONE ENTRY INTERCOM PANEL - REFER TO EQUIPMENT SCHEDULES FOR DETAILS.
	VoIP VIDEO INTERCOM PANEL- REFER TO EQUIPMENT SCHEDULES FOR DETAILS.
	LOW-POWER BLUETOOTH NETWORK GATEWAY - FOR USE WITH NDE SMART LOCKS

## INSTALL/COMMISSIONING NOTES

- 1.) Adjusting**
- Occupancy Adjustments: When requested, within 12 months of date of Substantial Completion, provide on-site assistance in adjusting system to suit actual occupied conditions. Provide up to three visits for this purpose. Tasks will include, but are not limited to, the following:
    - Check cable connections.
    - Check proper operation of cameras and lenses. Verify operation of auto-iris lenses and adjust back-focus as needed.
    - Adjust all preset positions; consult with appointed Owner's personnel.
    - Recommend changes to cameras, lenses, and associated equipment to improve Owner's use of video surveillance system.
    - Provide a written report of adjustments and recommendations.
- 3.) As-Built and Operation and Maintenance Manuals**
- A. As-Built Drawings
1. At the conclusion of the project, the Contractor shall provide "as built" drawings. The "as built" drawings shall be a continuation of the Contractor's shop drawings as modified, augmented, and reviewed during the installation, check out and acceptance phases of the project. All drawings shall be fully dimensioned and prepared in DWG format using the latest version of AutoCAD.
  2. The as-built drawings shall incorporate all updated system riser diagrams prepared in DWG format using the latest version of AutoCAD.
- B. Manuals
1. At the conclusion of the project, the Contractor shall provide copies of the manuals as described herein. Each manual's contents shall be identified on the cover. The manual shall include name, addresses, and telephone numbers of each system integrator installing equipment and systems and the nearest service representatives for each item of equipment for each system. The manuals shall have a table of contents and labeled sections. The manuals shall include all modifications made during installation, checkout, and acceptance. The manuals shall contain the following:
    - Hardware Manual
      - The hardware manual shall describe all equipment furnished including:
        - General description and specifications
        - Installation and check out procedures
        - Equipment layout and electrical schematics to the component level
        - System layout drawings and schematics
        - Alignment and calibration procedures
        - Manufacturer repair parts list indicating sources of supply
    - Software Manual
      - The software manual shall describe the functions of all software and shall include all other information necessary to enable proper loading, testing, and operation. The manual shall include:
        - Definitions of terms and functions
        - Use of system and applications software
        - Initialization, start up, and shut down
        - Alarm reports
        - Reports generation
        - Data base format and data entry requirements
        - Directory of all disk files
    - Operator's Manual
      - The operator's manual shall fully explain all procedures and instructions for the operation of the system including:
        - Computer and peripherals
        - System start up and shut down procedures
        - Use of system, command, and applications software
        - Recovery and restore procedures
        - Graphic alarm presentation
        - Use of report generator and generation of reports
        - Data entry
        - Operator commands
        - Alarm messages and reporting formats
        - System access requirements
  2. Maintenance Manual
    - The maintenance manual shall include descriptions of maintenance for all equipment including inspection, periodic preventive maintenance, fault diagnosis, and repair or replacement of defective components.
- 4.) Programming and Training**
- A. Coordinate and obtain a written approval of system functionality from the Owner prior to programming.
  - B. Perform a walk-through with the Owner and demonstrate the system functionality.
  - C. Make any adjustments to system functionality after initial programming if necessary to achieve the desired functionality requested by the Owner.
  - A. The security system integrator shall provide four (2) two hour training sessions for client personnel.
- 5.) Commissioning**
- A. Upon completion of the project, a site inspection shall be performed with the security integrator, DAKOTA PARTNERS and Safer Places. The purpose will be to confirm that all equipment has been installed per the Scope of Work and in a neat professional manner. A punch list will be generated for any items that need to be addressed. Upon a successful site inspection or once all punch list items have been addressed, the integrator, owner and Safer Places will sign-off on the project.

## SYMBOL SCHEDULE

	CARD READER PACKAGE - INCLUDES READER, DOOR STATUS CONTACT(S), REQUEST TO EXIT SENSOR AND REQUIRED LOCKING HARDWARE. REFER TO EQUIPMENT SCHEDULES FOR DETAILS
	DOOR MONITOR PACKAGE (FREE EGRESS) - INCLUDES DOOR STATUS CONTACT(S) AND REQUEST TO EXIT SENSOR. REFER TO EQUIPMENT SCHEDULES FOR DETAILS..
	LOW-POWER BATTERY OPERATED SMART LOCK. REFER TO EQUIPMENT SCHEDULES FOR DETAILS (MUST BE COMPATIBLE WITH ACCESS CONTROL SOFTWARE & NETWORK GATEWAY)
	WIRELESS WIEGAND RECEIVER - REFER TO EQUIPMENT SCHEDULES FOR DETAILS
	PANIC ALARM BUTTON - REFER TO EQUIPMENT SCHEDULES FOR DETAILS
	WIRELESS ALARM CONTACT - REFER TO EQUIPMENT SCHEDULES FOR DETAILS
	SECURITY KEYPAD/CONTROLLER - REFER TO EQUIPMENT SCHEDULES FOR DETAILS
	WIRELESS MOTION SENSOR - REFER TO EQUIPMENT SCHEDULES FOR DETAILS

## CABLE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	PLENUM
A	CAT5E STRUCTURED NETWORK CABLE	BELDEN	1212003U1000
B	CAT6 STRUCTURED NETWORK CABLE	BELDEN	2412003A1000
C	CAT5E SHIELDED NETWORK CABLE	BELDEN	1212F003A1000
D	ACCESS COMPOSITE CABLE W/4 INNER CABLES	WINDY CITY	4461030-S
E	3-2PR #22AWG SHIELDED CABLE	WINDY CITY	444351-04S
F	2-CONDUCTOR #18AWG UNSHIELDED CABLE	WINDY CITY	442364-S
G	2-CONDUCTOR #22AWG UNSHIELDED CABLE	WINDY CITY	444366-S
H	4-CONDUCTOR #22AWG UNSHIELDED CABLE	WINDY CITY	444386-S
I	2-CONDUCTOR #18AWG UNSHIELDED PARALLEL CABLE	AIPHONE	871802
J	RG-59U COAXIAL CABLE, COPPER BRAD, COPPER CENTER	WINDY CITY	659211-04S
K	2-STRAND SINGLE-MODE FIBER OPTIC CABLE	BELDEN	B9W043T
L	2-STRAND MULTIMODE FIBER OPTIC CABLE	BELDEN	B9B043T
M	6-STRAND SINGLE-MODE FIBER OPTIC CABLE	BELDEN	B9W240T
N	6-STRAND MULTI-MODE FIBER OPTIC CABLE	BELDEN	B9B240T
K	12-STRAND SINGLE-MODE FIBER OPTIC CABLE	BELDEN	B9W241T
L	12-STRAND MULTIMODE FIBER OPTIC CABLE	BELDEN	B9B241T
M	CABLE INCLUDED WITH EQUIPMENT	TBD BY BIDDER	N/A
N	EXISTING CABLEING TO BE REUSED	N/A	N/A
O	NETWORK PATCH CABLE	TBD BY BIDDER	N/A
P	FIBER JUMPER/PATCH CABLE	TBD BY BIDDER	N/A

**NOTE:**  
THE SECURITY INTEGRATOR, BIDDER OR CONTRACTOR RESPONSIBLE FOR THE INSTALLATION OF THE SYSTEM CABLEING SHALL ENSURE THAT ALL CABLEING IS RATED AND DESIGNED FOR ITS INTENDED APPLICATION AND ENVIRONMENT. PLENUM RATED PART NUMBERS HAVE PROVIDED FOR REFERENCE PURPOSES ONLY.

## RESPONSIBILITY MATRIX

	INTEGRATOR	DAKOTA	GC	SITE ELECTRICIAN	CABLE PROVIDER	PHONE COMPANY	ELEVATOR COMP	FIRE ALARM COMP	GATE COMPANY
ELECTRICAL PERMITS (IF REQUIRED)	-	-	X	-	-	-	-	-	-
BUCKET TRUCK/LIFT FEES	-	-	X	-	-	-	-	-	-
EQUIPMENT INSTALLATION	-	-	X	-	-	-	-	-	-
EQUIPMENT TERMINATIONS	-	-	X	-	-	-	-	-	-
LOW VOLTAGE CABLE INSTALLATION	-	-	X	-	-	-	-	-	-
SURFACE RACEWAY/CONDUIT INSTALLATION	-	-	X	-	-	-	-	-	-
UNDERGROUND CONDUIT (LESS TRENCHING)	-	-	X	-	-	-	-	-	-
SITE EXCAVATION/TRENCHING	-	-	X	-	-	-	-	-	-
120VAC POWER (HARDWIRED & OUTLETS)	-	-	X	-	-	-	-	-	-
FIRE ALARM INTERFACE TERMINATIONS	-	-	X	-	-	-	-	-	-
FIRE ALARM INTERFACE CABLEING	-	-	X	-	-	-	-	-	-
FLOOR CORING	-	-	X	-	-	-	-	-	-
ELECTRIC DOOR LOCKING HARDWARE	-	-	X	-	-	-	-	-	-
NETWORK DROPS FOR CLIENT CONNECTIVITY	-	-	X	-	-	-	-	-	-
CATV INTERFACE TERMINATION & MODULATOR	-	-	X	-	-	-	-	-	-
SECURITY ALARM TELEPHONE LINE	-	-	-	-	-	-	-	-	-
TELEPHONE ENTRY SYSTEM TELEPHONE LINE	-	-	X	-	-	-	-	-	-
ELEVATOR TRAVELER CABLE	-	-	X	-	-	-	-	-	-
GATE CONTROLLER	-	-	-	-	-	-	-	-	-
CONCRETE FOOTINGS/PADS	-	-	-	-	-	-	-	-	-
PROGRAMMING/TESTING/TRAINING	-	-	X	-	-	-	-	-	-
O&M MANUALS AND AS-BUILT DRAWINGS	-	-	X	-	-	-	-	-	-
FIBER OPTIC CABLEING	-	-	-	-	-	-	-	-	-
PATCHING AND PAINTING	-	-	X	-	-	-	-	-	-
TESTING AND CERTIFICATION OF NETWORK DROPS	X	-	-	-	-	-	-	-	-

## PROPOSAL BREAK-DOWN SCHEDULE

- BASE BID - THE GENERAL CONTRACTOR SHALL PROVIDE CABLEING FOR ALL SECURITY DEVICES SHOWN THE SECURITY DRAWINGS. IN ADDITION TO THIS CABLEING, THE GC SHALL INCLUDE THE EQUIPMENT AND ITS ASSOCIATED INSTALLATION FOR EQUIPMENT NOTED WITH A "BASE" SUFFIX ON THE FLOOR PLANS.
- ALT1 = THE GC SHALL PROVIDE THE EQUIPMENT AND ITS ASSOCIATED INSTALLATION FOR EQUIPMENT NOTED WITH AN "ALT1" SUFFIX ON THE FLOOR PLANS. CABLEING FOR THESE DEVICES SHALL BE INCLUDED AS PART OF THE BASE BID.
- ALT2 = THE GC SHALL PROVIDE THE EQUIPMENT AND ITS ASSOCIATED INSTALLATION FOR EQUIPMENT NOTED WITH AN "ALT2" SUFFIX ON THE FLOOR PLANS. CABLEING FOR THESE DEVICES SHALL BE INCLUDED AS PART OF THE BASE BID.

## GENERAL NOTES

1. ALL CABLEING AND CONDUIT SHALL BE INSTALLED PER LOCAL AND NATIONAL ELECTRICAL CODE APPROVED METHODS.
2. ALL EXTERIOR MOUNTED EQUIPMENT SUCH AS CAMERAS, INTERCOM STATIONS, ENCLOSURES, CARD READERS, ETC. SHALL BE PROPERLY MOUNTED AND WATER TIGHT. COMPRESSION FITTINGS SHALL BE USED FOR ALL CONDUIT ENTERING THE EQUIPMENT ENCLOSURES AND BACK BOXES.
3. SURFACE MOUNT CONDUIT OR RACEWAYS SHALL BE INSTALLED FOR ALL CABLEING THAT CANNOT BE CONCEALED ABOVE CEILINGS OR WALLS. THE INSTALLING CONTRACTOR SHALL CONFORM WITH THE CONDUIT FILL RATE PERCENTAGES OUTLINED IN THE NATIONAL ELECTRICAL CODE.
4. EQUIPMENT SUCH AS CAMERAS, MOTIONS SENSORS AND TALK-DOWN SPEAKERS MOUNTED TO DROP-CEILING TILES SHALL BE RE-INFORCED WITH A BACKING PLATE TO MINIMIZE DAMAGE FROM VANDALISM.
5. SHOULD THIS PROJECT INCLUDE FIBER OPTIC CABLEING, THE INSTALLING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIBER TERMINATIONS, BREAK-OUT BOXES, PATCH CABLES AND TESTING. ALL INTERIOR FIBER CABLEING MUST BE INSTALLED WITHIN ARMORED CABLE OR FIBER INNER DUCT. PRIOR TO INSTALLATION, THE INSTALLING CONTRACTOR SHALL CONFIRM THAT THE DISTANCE OF EACH CABLE RUN DOES NOT EXCEED THE LIMITATIONS OF THE FIBER CABLEING. SHOULD THIS BE THE CASE, THE INSTALLING CONTRACTOR SHALL CONTACT SAFER PLACES FOR DIRECTION.
6. ALL CABLEING WITHIN EQUIPMENT RACKS, CONTROL PANELS, FIELD PANELS, ENCLOSURES, ETC SHALL BE PROPERLY DRESSED AND CLEARLY LABELED. ALL CABLES SHALL BE NEATLY BUNDLED AND SECURED. A SCHEDULE SHALL BE LEFT WITHIN EACH ENCLOSURE IDENTIFYING WHAT DEVICES ARE SERVICED BY THE RESPECTIVE PANEL/ENCLOSURE. THIS SCHEDULE SHALL INCLUDE ANY REQUIRED IP ADDRESSES, MAC ADDRESSES, LOGIN CREDENTIALS, ETC.
7. SHOULD THIS PROJECT INCLUDE NEW POLES, CARD READER PEDESTALS, INTERCOM PEDESTALS, ETC. THE INSTALLING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED CONCRETE FOOTINGS OR PADS.
8. ALL REQUIRED EXTERIOR CONDUIT SHALL BE INSTALLED PER LOCAL AND NATIONAL ELECTRICAL CODES. SHOULD EMT BE UTILIZED, PROPER COMPRESSION FITTINGS SHALL BE INSTALLED. PVC CONDUIT SHALL BE A SCHEDULE 80 AND UTILIZE PROPER EXPANSION FITTINGS TO PREVENT CRACKING.
9. SHOULD WIRELESS NETWORK TRANSCEIVERS BE UTILIZED FOR THIS PROJECT, PROPER SHIELDED NETWORK CABLEING SHALL BE INSTALLED. PRIOR TO INSTALLATION, THE INSTALLING CONTRACTOR SHALL CONFIRM LINE OF SIGHT BETWEEN TRANSCEIVERS EXISTS. IF LINE OF SIGHT DOES NOT EXIST, THE INSTALLING CONTRACTOR SHALL CONTACT SAFER PLACES FOR DIRECTION.
10. ALL EQUIPMENT SHALL BE PROPERLY GROUNDED FOLLOWING MANUFACTURER SUGGESTED METHODS.
11. UNLESS OTHERWISE NOTED, THE INSTALLING CONTRACTOR SHALL PROVIDE ALL REQUIRED CORING, SLEEVES AND APPROVED FIRE-STOPPING METHODS.
12. THESE DRAWINGS ARE INTENDED FOR DIAGRAMMATICAL PURPOSES ONLY AND OUTLINE THE INTENT OF THE DESIGNED SYSTEM(S). THE INSTALLING CONTRACTOR IS REQUIRED TO PROVIDE ALL EQUIPMENT NECESSARY FOR A COMPLETELY FUNCTIONAL SYSTEM. IF ADDITIONAL EQUIPMENT IS REQUIRED OR RECOMMENDED, PLEASE NOTIFY SAFER PLACES, PRIOR TO SUBMITTING A BID AND INCLUDE THIS EQUIPMENT WITH YOUR PROPOSAL.
13. ALL EQUIPMENT AND DEVICES SHALL BE INSTALLED PER THE MANUFACTURER RECOMMENDATIONS AND INSTALLATION INSTRUCTIONS..
14. ALL CABLEING PASSING THROUGH FIRE WALLS OR SMOKE BARRIER SYSTEMS SHALL BE FIRE-STOPPED VIA AN APPROVED (UL CLASSIFIED) FIRE STOP MATERIAL.
15. SOME SYMBOLS, ABBREVIATIONS, CABLE TYPES AND GENERAL NOTES CONTAINED WITHIN THESE DRAWINGS MAY NOT BE USED FOR THIS PROJECT.
16. ALL EQUIPMENT SHALL BE AS OUTLINED IN THE SECURITY DRAWINGS. PROPOSALS/SUBMITTALS THAT DO NOT FOLLOW THESE GUIDELINES SHALL BE REJECTED. THE BIDDER WILL ALSO INCUR ALL COSTS ASSOCIATED WITH PROVIDING THE SPECIFIED EQUIPMENT
17. THE INSTALLING CONTRACTOR SHALL CHANGE THE DEFAULT PASSWORDS AND USERNAMES ON ALL NETWORK CAMERAS, SYSTEM HARDWARE AND SOFTWARE PROGRAMS. ALL USER NAMES PASSWORDS SHALL BE PROPERLY DOCUMENTED ON THE AS-BUILT DRAWINGS.
18. THE INSTALLING CONTRACTOR SHALL DISABLE THE "PHONE HOME FEATURE ON ALL VIDEO SURVEILLANCE CAMERAS.

## NETWORK CABLEING LABELING FORMAT

All network cables shall be labelled on both ends utilizing the following format. Labels shall be machine printed with a handheld printer. This allows for fast changes to the label scheme, reprinting on site if needed if a label is damaged or destroyed, and generally allows more flexibility in style (wire wrap, multi-line, color, etc.).

Device ID	Head-end Location Room Number	Patch Panel and Switch Identifier	Port Number
Example:			
C21	- 115	- A	- 9

**Ed Wojcik**  
architect, ltd  
One Richmond Square  
Providence, RI 02906  
401-861-7139

Proposed Design for:  
**Woodland Cove**  
**Phase I**  
Buildings E, F, & COMMUNITY BUILDING  
3102 Cranberry Highway  
Wareham, MA 02552

CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

SHEET CONTENTS:  
**Security Legends and Notes**

PROJECT # 1420  
DATE: 9/22/2020  
REVISED DATE:  
REVISED: 02/16/2021

**SEC.1**

# VIDEO MANAGEMENT SOFTWARE SPECIFICATIONS

## 2. PRODUCTS

### 2.1. SOFTWARE

- 2.1.1. Manufacturer: Exacq Technologies, Inc.
- 2.1.2. Model: ExacqVision Professional VMS
- 2.1.3. Alternates: Avigilon and Genetec

### 2.2. DESCRIPTION

2.2.1. **The Video Management System (VMS) shall be a software package for comprehensive management of live and recorded video, and associated audio and data.**

2.2.2. **General Functionality** - The VMS shall possess the following general characteristics:

- 2.2.2.1. provide effective monitoring of video from IP cameras and encoding devices, two-way audio and data in real time over local and wide area networks
- 2.2.2.2. interactive and multi-level mapping
- 2.2.2.3. data integration from retail and access control systems
- 2.2.2.4. single-screen administration across multiple servers and systems, including:
  - 2.2.2.4.1. global configuration and monitoring of camera, encoder, and storage settings across the enterprise
  - 2.2.2.4.2. administration of all users on multiple servers
  - 2.2.2.4.3. e-mail and text (SMS) notifications
- 2.2.2.5. automatic identification and IP address assignment of compatible IP cameras and encoders with status display
  - 2.2.2.5.1. The option to enable an embedded DHCP server to assign camera addresses via DHCP.
- 2.2.2.6. open architecture supporting IP cameras and encoders and access control systems from multiple manufacturers
- 2.2.2.7. available client software to allow remote access to live and recorded video, including access from mobile devices
  - 2.2.2.7.1. support simultaneous access to video from multiple servers
- 2.2.2.8. virtual matrix functionality
- 2.2.2.9. provisioned as a service without requiring any application to be running in order to operate
- 2.2.2.10. 2-way audio support between server, client, and camera

### 2.2.3. Architecture

2.2.3.1. The VMS shall have a client/server-based architecture that can be configured as a standalone VMS with the client software running with equal functionality on the server hardware and/or the client running on any network-connected TCP/IP workstation.

2.2.3.2. **User Interfaces** - The VMS shall support installed client and web client interfaces.

2.2.3.2.1. The VMS shall record and retrieve video, audio and alarm data and provide it to the VMS clients upon request.

2.2.3.2.2. **Installed client characteristics:**

- 2.2.3.2.2.1. downloadable at no charge from the Manufacturer's web site
- 2.2.3.2.2.2. fully compatibility with all available features of the VMS server software
- 2.2.3.2.2.3. View live video and audio, recorded video and audio and be able to configure the complete system all from a single application.
- 2.2.3.2.2.4. Add and remove features based on the permissions of the user and the licensed functionality.

2.2.3.2.3. **PC Web Client** - The web client interface shall operate without requiring installation of any software.

2.2.3.2.3.1. **functions:**

- 2.2.3.2.3.1.1. view live video
- 2.2.3.2.3.1.2. view recorded video
- 2.2.3.2.3.1.3. control pan-tilt zoom (PTZ) cameras
- 2.2.3.2.3.1.4. activate triggers
- 2.2.3.2.3.1.5. allow connections to multiple VMS servers simultaneously

2.2.3.2.3.2. The VMS server shall be able to transcode video into a JPEG file sized for compatibility with the browser screen before sending it to the client browser.

2.2.3.2.3.3. The web client shall be capable of decoding JPEG and H.264 video streams.

2.2.3.2.4. **Mobile web client** - A free mobile application shall be available from the Manufacturer.

2.2.3.2.4.1. The mobile application shall support Apple iOS, Google Android, and Microsoft Windows Mobile operating systems.

2.2.3.2.4.2. **functions:**

- 2.2.3.2.4.2.1. remote view of live and recorded video through the Video Server
- 2.2.3.2.4.2.2. PTZ control and the monitoring and activation of alarms and events from the mobile device.
- 2.2.3.2.4.2.3. simultaneous interaction with multiple NVR, server, and storage devices from the Manufacturer
- 2.2.3.2.4.2.4. monitoring of events configured by a Client

2.2.3.2.4.3. The web service supporting the mobile application shall size the video stream to accommodate both low bandwidth and high bandwidth networks.

2.2.3.3. The VMS software shall allow the user to have any combination of VMS client applications running on any of the supported operating systems and be able to connect to any of the VMS servers running on any of the supported operating systems.

2.2.3.3.1. Multiple client workstations shall be capable of simultaneously viewing live and/or recorded video from one or more servers.

2.2.3.4. The VMS software shall have the capability to run multiple client applications simultaneously on one workstation with multiple monitors.

2.2.3.4.1. Up to 12 monitors shall be configurable on a single workstation with one (1) client application running on each monitor.

2.2.3.5. Multiple servers shall be able to simultaneously provide live and/or recorded video to one or more workstations.

2.2.3.6. The VMS server software shall have the ability to be installed on an IP edge device--such as an IP camera or encoder that allows for third-party applications--allowing the device to serve as both a server and IP video recording device.

2.2.4. **Specific Functionality** - The VMS shall have the following elements:

### 2.2.4.1. Video Streaming

- 2.2.4.1.1. Video formats supported: MJPEG, MPEG-4, H.264
- 2.2.4.1.2. Each video stream shall have the ability to be recorded, viewed live, saved to views, exported, and available in search and playback.
- 2.2.4.1.3. Streams shall be individually configurable for recording schedules, storage rules and
- 2.2.4.1.4. Multistreaming - The VMS shall allow the setting of multiple, independent video

streams from the IP camera, each configurable for frame rate, resolution and quality level.

2.2.4.1.4.1. Streams shall be able to be recorded, viewed live, saved to views, exported, and available in search and playback.

2.2.4.1.4.2. All streams can be individually configurable for recording schedules and storage rules.

### 2.2.4.2. Recording

2.2.4.2.1. **Functions:**

2.2.4.2.1.1. continuous, uninterrupted and unattended recording of all video and audio transmitted to the VMS, including during times of administration and configuration of any feature

2.2.4.2.1.2. recording triggered by video motion detection within a defined region of interest of the camera's view

2.2.4.2.1.2.1. configurable recording of video prior to the detection of the motion

2.2.4.2.1.3. record video based on metadata generated by an edge network device and included in the video stream sent to the VMS server

2.2.4.2.1.4. configure each video input's recording time on an hourly basis, to further allow the user to schedule when to record on motion, when to record on event and when to not record

2.2.4.2.2. **File system and operations:**

2.2.4.2.2.1. The VMS shall use the operating system's native file system for recording the video.

2.2.4.2.2.2. The video file shall contain the data of the video, audio, and associated metadata.

2.2.4.2.2.3. The index file shall contain the index of the metadata from the network device.

2.2.4.2.2.4. When the VMS searches for video, it shall retrieve and display the information in the index files.

2.2.4.2.2.5. When a client requests to display the video, the VMS shall transmit the video file data from the server to the client

### 2.2.4.2.3. Bookmarking

2.2.4.2.3.1. A bookmarking feature shall allow the tagging, naming, and retention of video clips.

### 2.2.4.2.4. Recording Storage

2.2.4.2.4.1. **Content**

2.2.4.2.4.1.1. The VMS shall provide for recording of video as well as associated audio and data files, as determined by rules, events, or manual selection.

2.2.4.2.4.1.2. The VMS shall support recording video based on the following classifications

- 2.2.4.2.4.1.2.1. Free run video (all video)
- 2.2.4.2.4.1.2.2. Time-lapse video @ 1 fps or less
- 2.2.4.2.4.1.2.3. Video associated with motion events as detected by the device
- 2.2.4.2.4.1.2.4. Video associated to triggered alarm states as configured by Event Linking

2.2.4.2.4.1.3. The VMS shall support the configuration of unique weekly recording schedules per camera

2.2.4.2.4.1.4. The VMS shall support a graphical representation of drive status for associated RAID-based storage.

### 2.2.4.2.4.2. Storage Types

2.2.4.2.4.2.1. The VMS shall support local HDD disk storage

2.2.4.2.4.2.2. The VMS shall support iSCSI extended storage whereby a remote storage unit can appear as a local drive.

### 2.2.4.2.4.3. Storage Retention

2.2.4.2.4.3.1. The VMS shall support configurable "at most" rules that will automatically delete video for a camera after a specified amount of time.

2.2.4.2.4.3.2. The VMS shall support configurable "at least" rules that will delete newer video on other cameras to preserve older video from cameras with an "at least" rule specified.

### 2.2.4.2.5. Video Archiving

2.2.4.2.5.1. **Content**

2.2.4.2.5.1.1. The VMS shall provide for the archival of video, audio, and data files, as determined by rules, events, or manual selection.

2.2.4.2.5.1.2. Each archive target has its own set of rules for what cameras and video are archived and when.

### 2.2.4.2.5.2. Location

2.2.4.2.5.2.1. The VMS shall support CIFS and NFS network shares for archive target locations

2.2.4.2.5.2.2. The VMS shall be able to archive video to multiple locations and base the archive on camera, event type, or an archive schedule.

2.2.4.2.5.3. **Schedules** - The VMS shall be able to archive continuously or on a scheduled basis.

2.2.4.2.5.3.1. Archive tasks shall continue until completion of the current requirement or terminate at a scheduled time.

2.2.4.2.5.3.2. Weekly schedules shall be supported.

2.2.4.2.5.3.3. Multiple schedules may be combined to derive specific schedules.

2.2.4.3. **Events** - The VMS software shall use events to initiate desired actions, including the following:

2.2.4.3.1. **events:**

- 2.2.4.3.1.1. video motion, operating on the encoded video
- 2.2.4.3.1.2. video loss of analog video signals
- 2.2.4.3.1.3. ASCII input string, including POS information
- 2.2.4.3.1.4. device, server, and system health
- 2.2.4.3.1.5. IP camera connection
- 2.2.4.3.1.6. software initiated trigger through VMS display
- 2.2.4.3.1.7. analytics rule
- 2.2.4.3.1.8. date and time

### 2.2.4.3.2. actions:

- 2.2.4.3.2.1. record video
- 2.2.4.3.2.2. output trigger
- 2.2.4.3.2.3. output analog video
- 2.2.4.3.2.4. send an email
  - 2.2.4.3.2.4.1. support SSL and TLS protocols for encrypted communications
- 2.2.4.3.2.5. burn a CD/DVD

2.2.4.3.2.6. call a camera PTZ preset

2.2.4.3.3. Users shall have the ability to create rules based on a combination of events.

2.2.4.3.4. The VMS client shall be configurable to automatically switch views on any event within the event monitoring function.

2.2.4.4. **Search and Playback** (from client interface) - This function shall allow a user to:

2.2.4.4.1. search and play back recorded video, audio and events from VMS servers

2.2.4.4.2. search and play back video from multiple cameras simultaneously in a synchronized multi-camera layout

2.2.4.4.3. search recorded video based on time, date, video source and image region, with results displayed as both a clickable timeline

2.2.4.4.4. search and play back audio in synchronization with video

2.2.4.4.5. search a specific area of recorded video to display only frames where motion occurred

2.2.4.4.6. perform a visual thumbnail search, selecting one image per camera per set time period

2.2.4.4.6.1. play video from selected image

2.2.4.4.6.2. zoom in to a time range around selected image

2.2.4.4.7. search recorded video based on time, date and type of event that occurred

2.2.4.4.7.1. Filter results of event search by type of event

2.2.4.4.7.2. Sort results by time of event, length of event or type of event

2.2.4.4.8. Archived video shall be seamlessly searched during any video search, eliminating the need for a user to separately search the archive location.

### 2.2.4.5. Video and information display

2.2.4.5.1. The VMS shall have a live display mode, wherein a user shall be able to view live video, live audio, POS data, and alarm information.

2.2.4.5.2. The VMS shall allow users to view multiple video streams per device, depending on the device's streaming capability.

2.2.4.5.3. The VMS client shall be able to use OpenGL and Direct 3D to decompress and render video.

2.2.4.5.4. The VMS client shall support using GPU resources of the client workstation, if available, to accelerate decoding of video streams

2.2.4.5.5. The VMS shall allow viewing of cameras in logical groups and preset views.

2.2.4.5.5.1. Views shall save the location of video streams, audio streams, POS data, maps and event views.

2.2.4.5.5.2. Views shall be accessible in both live and recorded video modes.

2.2.4.5.5.3. The VMS shall be able to automatically cycle through two or more saved views to create a video tour, with a configurable dwell time for each view.

2.2.4.5.6. The VMS shall allow the viewing of live video from guard tour sequences.

2.2.4.5.7. The VMS shall support the use of a panoramic lens on an analog or IP camera.

2.2.4.5.7.1. The VMS client shall de-warpage the image on both live and recorded video.

2.2.4.5.8. The VMS shall be able to organize the camera video view panel in the following layout patterns:

- 2.2.4.5.8.1. 1-camera (full-screen)
- 2.2.4.5.8.2. 4-camera (2x2)
- 2.2.4.5.8.3. 8-camera (3 large views and 4 small views)
- 2.2.4.5.8.4. 10-camera (2 large views and 8 small views)
- 2.2.4.5.8.5. 13-camera (1 large view and 12 small views)
- 2.2.4.5.8.6. 16-camera (4x4)
- 2.2.4.5.8.7. 8-camera (1 very large view and 7 small views)
- 2.2.4.5.8.8. 9-camera (3x3)
- 2.2.4.5.8.9. 6-camera (2x3) widescreen
- 2.2.4.5.8.10. 12-camera (4x3) widescreen
- 2.2.4.5.8.11. 20-camera (5x4) widescreen
- 2.2.4.5.8.12. 30-camera (6x5) widescreen
- 2.2.4.5.8.13. 48-camera (8x6) widescreen
- 2.2.4.5.8.14. 16:9 display panels
- 2.2.4.5.8.15. custom

2.2.4.5.9. The VMS shall allow the customization of the user interface to display software (soft) triggers and initiate actions.

2.2.4.5.9.1. The VMS shall also display the status of any soft triggers on connected VMS servers.

2.2.4.5.10. **Overlay controls** shall appear when hovering over a camera in live view

2.2.4.5.10.1. appearance: text color, font, style, transparency, location

2.2.4.5.10.2. control types: audio inputs and outputs, alarm outputs, input events, soft triggers, serial data, manual record

2.2.4.5.11. System information shall be capable of display on a single page to include the following:

- 2.2.4.5.11.1. status of all servers and cameras currently connected
- 2.2.4.5.11.2. alarms, events, MAC addresses, camera configuration, format and frame rate from each individual camera

2.2.4.5.12. The VMS shall be able to display the following additional system information:

- 2.2.4.5.12.1. users currently logged in to the system
- 2.2.4.5.12.2. plug-in file version information number and status
- 2.2.4.5.12.3. system log containing a detailed history of system processes

2.2.4.5.13. The VMS shall support creation of user views, based on the permission level of the user.

2.2.4.5.14. The VMS shall support display of notifications to the user for common setup tasks that should be performed, including

- 2.2.4.5.14.1. Configuring motion on all cameras
- 2.2.4.5.14.2. Changing the default password
- 2.2.4.5.14.3. Configuring email notifications
- 2.2.4.5.14.4. Configuring of multistreaming
- 2.2.4.5.14.5. Time delta between server and camera

### 2.2.4.6. Pan Tilt Zoom (PTZ)

2.2.4.6.1. The VMS shall allow control of PTZ cameras to authorized users and be used to maneuver and zoom a PTZ camera at adjustable speed.

2.2.4.6.2. When used on a non-PTZ camera, the VMS shall allow a user to digitally pan, tilt and zoom on any video, whether in live or recorded mode.

2.2.4.6.3. The VMS shall allow following methods of controlling a PTZ camera to be available:

- 2.2.4.6.3.1. PTZ graphics control windows
- 2.2.4.6.3.2. live graphic overlay PTZ control icons
- 2.2.4.6.3.3. keyboard control (up, down, left, right arrows; page up, page down for zoom)
- 2.2.4.6.3.4. PTZ presets
- 2.2.4.6.3.5. digital PTZ
- 2.2.4.6.3.6. USB joystick
- 2.2.4.6.3.7. proportional PTZ control using a mouse

### 2.2.4.7. Mapping

2.2.4.7.1. The VMS shall have a map capability, accessible to users with the appropriate permission levels.

2.2.4.7.2. The map capability shall provide for the following:

- 2.2.4.7.2.1. Display video sources and their status.
- 2.2.4.7.2.1.1. Display the field of view for cameras on the map using an adjustable FOV visualization triangle
- 2.2.4.7.2.2. Place, view and activate soft triggers from a map

### 2.2.4.8. Export

2.2.4.8.1. The VMS software shall have the capability to export video, maps, POS data and audio files, without overwriting previous exports.

2.2.4.8.1.1. Export file formats supported: .exe, .avi, .ps, .mov, .psx

2.2.4.8.2. The VMS software shall have a feature to export a video segment from specific cameras or audio inputs to a CD or DVD upon an event.

2.2.4.8.3. **VMS standalone player**

2.2.4.8.3.1. The VMS standalone player shall package all of the exported video into a single executable file.

2.2.4.8.3.2. The VMS standalone player shall be able to authenticate that the video has not been tampered with using a keyed Hash Message Authentication Code (HMAC).

### 2.2.4.9. Administration and Configuration

2.2.4.9.1. **User administration functions:**

- 2.2.4.9.1.1. permissions
  - 2.2.4.9.1.1.1. authenticate the user's permission level by
    - 2.2.4.9.1.1.1.1. combination of user name and password
  - 2.2.4.9.1.1.2. allow for a user's permissions to be configured across multiple servers from a single client interface
  - 2.2.4.9.1.1.3. allow granularity of permissions by creating custom user groups
- 2.2.4.9.1.2. audit - record an audit trail of when users log in that shows what changes they have made, what video they have viewed and what they have exported
- 2.2.4.9.1.3.

### 2.2.4.9.2. Privacy Enforcement

2.2.4.9.2.1. The VMS software shall provide a configuration option to require 2 users enter unique passwords to authorize tasks involving the viewing of video. (2<sup>nd</sup> Reviewer)

- 2.2.4.9.2.1.1. The following tasks can be individually enabled or disabled
  - 2.2.4.9.2.1.1.1. View live video
  - 2.2.4.9.2.1.1.2. Search and view recorded video
  - 2.2.4.9.2.1.1.3. Export video

2.2.4.9.3. Third party integrations - supported methods: command line, API, web SDK

2.2.4.9.4. Native integrations controlled from exacqVision interfaces

### 2.2.5. Native Integration to Security and Access Control Systems

2.2.5.1. The VMS shall natively integrate with Kantech Entrapass access control systems.

2.2.5.2. The VMS shall natively integrate with DSC PowerSeries Neo Intrusion systems.

2.2.6. **Updates** - The Manufacturer shall have available timely updates of the VMS software

2.2.6.1. Updates shall be discoverable by the software when Internet connectivity to [www.exacq.com](http://www.exacq.com) is available.

2.2.6.2. The VMS software shall support the ability to update without losing any configuration

2.2.6.3. The VMS software shall provide the ability to update the software from within the software triggers and initiate actions.

2.2.6.4. The VMS software shall provide the ability to run an executable update program in the operating system to update the software

### 2.3. PERFORMANCE

#### 2.3.1. Compatibility

2.3.1.1. Video - The Video Server shall be compatible with the following video manufacturers:

2.3.1.2. Access control - The Video Server shall be compatible with the following access control manufacturers: AMAG, Brivo, CDVI, CEM Systems, DSX, G4S, Gallagher, ICT, Identcard, Infinitas, Inner Range, Kantech, Keyscan, Lenel, Maxxess, Open Options, Paxton, PCSC, Quinton, RBH Access, R2 Technologies, S2 Security and Software House.

2.3.1.3. POS and retail analytics - The Video Server shall be compatible with the following POS and retail analytics manufacturers: Micros, Agilence, Sensormatic, Prism Skylabs, Tokheim and Voloforce.

2.3.1.4. PSIM - The Video Server shall be compatible with the following PSIM manufacturers: ConnectOne, Honeywell, Qognify, Proximex, SureView Systems and VidSys

**Ed Wojcik**  
architect, ltd  
One Richmond Square  
Providence, RI 02906  
401-861-7139

Proposed Design for:  
**Woodland Cove**  
**Phase I**  
Buildings E, F, & COMMUNITY BUILDING  
3102 Cranberry Highway  
Wareham, MA 02552

SHEET CONTENTS:

Video Management Software Specifications

PROJECT # 1420

DATE: 9/22/2020  
REVISED DATE:  
REVISED: 02/16/2021

**SEC.2**

CONSTRUCTION DOCUMENT



# ACCESS CONTROL MANAGEMENT SYSTEM SPECIFICATIONS

## 2.1 MANUFACTURERS

The security management system (SMS) shall be the Kantech EntraPass Corporate Edition.

## 2.2 DESCRIPTION

The security management system (SMS) shall be an integrated system that utilizes a Sybase embedded SQL database for the storage and manipulation of related data. The SMS shall include a server with applications software, Multi-Site Gateways for communication between the server and controllers, operator and administrator workstations with appropriate software, hard copy printers and backup media. The security field devices (readers, door position switches, REX) shall communicate with the field panels via a dedicated cable network. The field panels shall communicate to the server via a Fast Ethernet 10/100 TCP/IP network, RS-232/RS-485 connection, or dial-up modem.

The SMS shall allow for growth and scalability from a smaller system to a larger, high-end, or enterprise system. The SMS shall be modular in nature, allowing system capacities to be easily expanded without requiring major changes to system operation. All defined system data as well as historical information shall be maintained. Customizable user interfaces shall allow management of system information and activity for administrators and operators. The response time between the moment when a card is presented at the reader and when the door is unlocked shall not exceed one second. The SMS shall include a badging solution with a GUI for badge design. No extra licensing shall be required for the badging solution.

The SMS shall be able to connect to authenticated SSL cloud based or non-SSL or non-authenticated e-mail server for all e-mail features described. The SMS shall be able to connect to an SMTP or POP3 authenticated e-mail server.

The SMS shall support the following devices:

20	Workstations
50	Concurrent Web/mobile applications.
20	Redundant Servers
40	Digital video recorders per type
41	Multi-Site Gateways
2,048	Connections per Multi-Site Gateway (max: 10,000 doors).
10,000	Door controllers per Multi-Site Gateway.
10,000	Readers per Multi-Site Gateway.
100,000	Monitored points per Multi-Site Gateway.
100,000	Control relays per Multi-Site Gateway.
Unlimited	Access cards
Unlimited	Card families or site codes.
2	Simultaneous operator languages.

## 2.3 PERFORMANCE - MONITORING

### 2.3.A Monitoring Mode

1. The SMS shall enable every operator to customize their desktop configuration. It shall be possible to modify the desktop appearance and to create up to eight desktops and to associate up to 10 different display screens to each. It shall be possible to modify the size and position of all screens. It shall be possible to determine if these screens shall be floating anywhere on the desktop or fixed on the desktop. If the workstation is equipped with a dual output video card and two or more monitors, it shall be possible to distribute the screen to multiple monitors. However, each screen shall be able to be viewed alone or together depending on operator needs. Once these parameters are saved, the configuration shall automatically take effect whenever the operator logs in.

For all types of screens, it shall be possible to access the general properties of the screen by simply right clicking at the center of the screen. From there it shall allow for linkage between associated screens without having to exit the current screen or section. It shall be possible to right click events on the desktop for editing which shall bring the user directly to the card, door, or component window and back.

### 1. Message Screen

All events that occur shall appear in real time. The text shall include at least the date, time, and a pertinent description of the event as well as its condition. The display of this screen shall be customizable and a different background and message color can be used for every type of event.

In addition the background color shall be chosen per operator. Events shall appear in their defined color or the operator shall have the option to choose a text color for the events.

All component modification events shall be tagged with an addition (+), modification (=) or deletion (-) tag.

Every in-coming event shall be documented by one or more icons representing video images, photos, access card, server, gateway, controller, card reader, and relay or supervision point. It shall be possible to classify the events on the screen by sequence, date and time, type of event, or type of message. In addition, a text filter shall be available to facilitate searching. It shall be possible to access the last up to 100,000 transactions from this window without the need to request a special report.

It shall be possible to see the origin of the event so that the operator shall be able to see the event's parent. For example door and access events shall show the location (site) of the event.

It shall be possible to right click on an event and perform edit or other functions linked to the event.

### 3. Cardholder and Operator Photo Screen

When a card is presented to a card reader, the software shall automatically display the photograph of the cardholder in this window. From this screen it shall be possible to select the cardholder's name, card number, event text, and comments as well as specify a door or group of doors for which the operator would like to display a photo. The SMS shall support the display of up to four pictures simultaneously. Furthermore the SMS shall allow that each picture box be assigned to a specific door for additional filtering. In addition the SMS shall support the ability to view the operator's picture when operators generate events.

### 4. Filtered Message Screen

This screen shall be a copy of the text messages screen except it shall be possible to select a specific message filter. The SMS shall include a choice of pre-configured filters and the ability to create customized filters. For every new filter it shall be possible to associate a name to it, select the type of event, select door, select workstation, select gateway, select supervision input, and select output.

### 5. Alarm Screen

Alarms that require an acknowledgement by an operator shall be displayed on this screen in text form only. The text shall include at least the date, time and description of the alarm, and its condition. It shall be possible to classify events on the screen by sequence, date and time, type of event, or type of message. A text filter shall be available in order to facilitate the search.

When the SMS pop-up is acknowledged by e-mail, the SMS shall display the operator's name based on the e-mail that acknowledged it.

If instructions about an alarm are envisaged, they shall automatically appear in a second window on the screen. If a graphic is associated with the alarm, it shall appear automatically on the screen defined to this effect. The icon associated to the control point shall be represented and show the actual state of the point.

The operator shall be able to access a log book in order to document the alarm that occurred. Once this information is recorded in the log it shall not be erasable or modifiable. Operators shall also be able to see previous comments or system logs added for this event.

Operators shall be able to run a report of the alarms from this window.

It shall be possible to associate video call-up with an alarm. When this occurs, the main screen shall become the video screen, not the alarm screen.

### 6. Video Screen (Integrated View)

When the SMS is integrated with Exacvision, it shall be possible to view the video images of cameras associated with them. The SMS shall enable the creation of an unlimited number of video views, each one associated with up to 16 different cameras or graphics. It shall be possible for the operator to see at a minimum 48 cameras simultaneously using three video views per screen. It shall be possible for an operator to edit or modify an existing view or create a new one directly from this screen. For each video view it shall be possible to select sequential, mosaic pattern, or preset viewing modes.

The SMS shall allow the operator to switch between pre-programmed video and dynamic view. The dynamic view shall allow the operator to select any camera and view it regardless of the need to create a new video view. The dynamic view shall support up to 16 cameras simultaneously.

It shall be possible for an operator to access all the commands of a motion PTZ camera to include rotate on its axis, adjust its focus, and have a larger view of the image. Accessibility to camera images and commands shall be limited by operator security level.

No additional licensing shall be required to perform this function.

The SMS shall allow the operator to select video views based on site linking. Site linking will allow SMS operators to navigate the SMS with ease by site or system wide.

### 7. Historical Message Screen

This screen shall allow operators to choose from a previously created custom report. Operators shall choose a start and end time, and a start and end date. The report will be populated in this window and have the same characteristics of the message screen including all right click functions.

The historical message screen shall allow operators to add comments to any event to view and edit at a later stage.

### 2.3.B Graphics Screen

1. There are three options for graphics that appear as background on the screen. The first is a reproduction of the building(s) floor by floor. The graphic module shall be capable of importing files in BMP, EMF, WMF, JPEG, GIF, PCX, PNG, TIF, or PCD formats.

2. The second option is using web pages, or WebViews, as background on the screen. This can be used in the following manners:

- Accessing to DVR web servers.
- Embedding default web pages into operator desktops.
- Adding an IP camera onto a video view.
- Embedding Intranet pages or directories into the operator environment.
- Adding PDF, Word documents to the desktop.
- HTML or PDF pop-up instruction on alarm.
- Integrating report folders in the desktop for quick access.

3. The third option is to assign a live video view as background on the screen if video integration is being utilized.

4. For all three options, control points shall be represented by a descriptive icon. Control points include workstations, gateways, controllers, card readers, doors equipped with either card readers or supervision contacts, cameras, relays, cameras, video views, task triggers and input monitoring points such as motion sensors. The icons shall be animated, meaning they shall represent the state of the point to which they are associated in real time. Every graphic shall support at least 100 control points.

4. Right clicking on an icon shall directly access the manual commands of each control point. A door shall be capable of but not limited to temporarily unlocking, manually unlocking or locking, enabling or disabling a reader, viewing the reader's comments, and enabling or disabling the KT-400 or KT-1 door contact. A supervision point shall be capable of being enabled or disabled. A control relay shall be capable of being activated, deactivated, or temporarily activated. Cameras shall be capable of viewing images or live video.

5. No additional licensing shall be required to perform this function.

6. The SMS shall allow the operator to select graphics based on site linking. Site linking will allow SMS operators to navigate the SMS with ease by site or system wide.

1. The card gateway is an optional external interface that shall allow the client to make modifications to the system card database through an Oracle or MS-SQL database. The application can be installed and run on the server's CPU. It shall allow for HR software integration and enable operators to modify, add, or obtain information on cards in real time.

## 2.4 OPERATION

The SMS shall perform the following tasks:

- Allow card access management for one or more buildings.
- Control access to various doors equipped with a card reader. Allow the ability to set card use count options to limit the number of times a card can be used.
- Monitor all defined alarm points as well as all doors controlled by card readers based on programmed schedules.
- Send transactions for which printing is required to one or more printers, based on a set schedule.
- Access the system using the main and secondary menus (to which access is limited by a password) to make additions and required changes to various data files so that they can be updated by the user without the manufacturer's assistance.
- Enable the entry of access code data for every card or group of cards.
- Seamlessly connect to onsite alarm systems.
- Fully functional virtual keypad with DSC® PowerSeries PC1616, PC1832 and PC1864 alarm system in addition with the DSC MAXSYS 4020 alarm panel. The operator shall perform all functions available on a standard keypad with the PowerSeries or MAXSYS 4020 series alarm systems. The operator shall be able to use the computer keyboard or the mouse to perform actions on the virtual keypad.
- Interface with the Simplex 4100ES Fire Panel, thereby eliminating hardwired integration between the SMS controllers and the Simplex 4100ES fire panel to receive events from the Simplex 4100ES panel and view the virtual keypad.
- Associate to each event a recording schedule for each destination (hard drive, monitor).
- Automatically display all alarms on screen in text with optional graphic or picture and trigger a sound requiring an acknowledgement on the keyboard to stop the alarm.
- Alarm pop-ups can be sent to many workstations. An alarm pop-up shall be acknowledged once by one operator.
- Mandatory comments can be added by the operator when acknowledging the alarm pop-up.
- In the case of an unacknowledged alarm within a customizable time; the alarm shall be sent to all active operators with additional log information.
- Each event shall print on a log printer. For security reasons, each event shall be incremented with a print number. Numbering shall start from zero every day.
- Generate reports and view them on the screen, output them to a printer, or send them to an

e-mail address.

17. Supervise based on programmed schedules of specific points such as door contacts, volumetric detectors, mechanical points, high and low temperature sensors, or any other equipment necessary for good building management.

18. View and/or save video images.

19. When integrated into a DVR/NVR system (American Dynamics, INTEVO, or Exacq ), allow the management of the recordings of all the cameras via access system workstations.

20. When connected to a DVR/NVR system (American Dynamics, INTEVO, or Exacq ), allow the orientation of all PTZ cameras directly using the workstation mouse of the access system.

21. The SMS shall offer the option to create four digit, five digit or six digit PIN for the cardholders.

22. The PIN length shall be defined SMS wide.

23. When connected to a digital video recording system (American Dynamics), allow the recovery and storage of selected videos to an independent server.

24. Save the database manually or automatically backup following a schedule.

25. Uninterrupted backups. The operator shall be able to perform any task during a SMS backup.

26. The operator shall be able to perform any and all operations during a fail-over synchronization between the primary server and Redundant Server.

27. The SMS shall remind SMS operators via e-mail and messages (pop-ups) of the SMS KAP status. The SMS shall have pre-defined reminders set to:

- Sixty days before KAP expiration.
- Thirty days before KAP expiration.
- Day of KAP expiration.
- Thirty days after KAP expiration.

28. The SMS KAP reminder shall include but not be limited to SMS serial number tokens needed and SMS Edition.

29. The SMS shall offer administrators to post a message upon operator login. The message shall be customizable to be per operator and system wide. The login message shall be configurable in both SMS languages and appear on the SMS workstation or SMS web in the operator's respective languages.

The login message shall be configurable to specific timeframe (per operator):

- Never.
- Always requires acknowledgement.
- Only one acknowledgement.
- Always requires acknowledgement until a specific date.
- Only one acknowledgement until a specific date.

32. The SME administrator shall be able to force strong password rules. The SMS shall allow the SME administrators to select the password settings. Password settings shall be configurable with the following rules:

- Password length between 8 and 20 characters.
- Upper case characters between 0 and 20.
- Numeric characters between 0 and 20.
- Special characters between 0 and 20

33. When the access control system manages parking lot entry and exit, it shall be possible to set a maximum number of vehicles authorized to simultaneously access the parking area. Once the parking lot is full, the system shall prevent access to any cardholder for as long as a parking space has not become available.

34. Save events on a hard drive according to required criteria.

35. The SMS shall allow storing the live transactions (events) portion of the system on a different local drive. This shall speed up performance of the SMS.

36. Once activated the SMS shall allow that the each door's request-to-exit events shall be ignored and not stored.

- The events shall not be stored or viewed on the screen
- Operators shall be able to ignore request-to-exit events on a per door basis by schedule.

37. It shall be possible to program on a KT-400 or KT-1 controller reader to bypass a door contact on a schedule. The bypass shall be at the controller level and at the software level.

38. It shall be possible to bypass the door contact for door forced events, and door open too long events. It shall be possible to have the door open too long event be an optional bypass on a door basis.

39. Operators shall be able at any time to bypass the door contact manually from the SMS workstation.

40. It shall be possible to program on KT-400 controller readers a double and triple switch function.

41. It shall be possible to have the multi-swipe function activating a predetermined schedule.

42. The double and triple swipes shall be able to be activated on reader simultaneously each with their respective actions.

43. The multi-swipe function shall be able to but not limited to:

- Toggle door unlock.
- Unlock door.
- Relock door.
- Temporarily unlock door.
- Activate Relay.
- Temporarily activate relay.
- Arm door partition request when using a Multi-Site Gateway.

44. Each cardholder shall have the option of having the multi-swipe function active.

45. A specific event shall be generated for any valid or invalid, double or triple swipes.

46. When using ioProx/ioSmart XSF/SSF format readers and the KT-400 controllers the SMS shall support eight readers for four doors.

- Each door shall have two readers on the same reader port. The installation shall be simple and not require any extra modules to be added.
- The exit reader of the door shall be wired on the same terminals as the entry reader by simply reversing D0/D1.

1. The ioSmart readers shall communicate to the KT-400 over RS-485 on COM2 or standard Wiegand.

- Power, LED/piezo outputs shall be shared with the entry/exit reader.
- The SMS shall offer specific exit reader functionalities but not limited to:
  - Assigning a specific access level schedule to each reader independently.
  - Enabling/disabling the entry/exit reader separately.
  - Running reports on the readers separately or together.
  - Follow the entry reader door name with a suffix of "-exit".
  - Share the same locking output.
  - Share the same door contact.
  - Share the same unlock schedule.
  - Share the same unlock time and open time.
- All eight readers shall be used if needed in a controller based anti-passback.

47. First person in, shall unlock the door on a schedule:

- With the KT-400 and the KT-1 a one hour grace period shall be configurable. The cardholder shall be able to enter within that grace period time and keep the door locked. When the door schedule activates the door shall go on a schedule.
- If no cardholder has presented their card within the grace period or within the schedule the door shall remain locked.
- The "first person in" shall be configurable on a per door basis.

48. Save events on a hard drive according to required criteria.

49. Perform the following operations from all workstations:

- Lock or unlock, one time unlock, return to schedule one door or a group of doors.
- View the last access event on the door.
- Bypass the door contact and keep door locked.
- Temporarily unlock a door using a custom timer for additional door unlocking on KT-400 and KT-1 controller doors.
- Disable and enable readers.
- View custom programmed comments in the component's Operation section.
- Activate or deactivate a relay or a group of relays.
- Activate or deactivate the recording of one camera or a group of cameras.
- Activate or deactivate a point or a group of points.
- Program or modify one card or a group of cards.
- Assign single door access exception to the card.
- Validate or invalidate one card or a group of cards.
- Change time and date.
- Demand the system state in text or graphic mode.
- Query, create and/or modify data on: access levels, schedules and holidays, access card, instructions, reports and log, doors, supervision points and relays, operator levels, and graphics.
- Ability to use an easy to use system tree view to select the components.
- View, which cards are in the roll call sectors.
- View the card's last known access in the roll call sector.

50. The operator shall be able to double click on components on the operation screen to automatically view the status in detailed text values.

## 2.5 EQUIPMENT

### 2.10.E Kantech Telephone Entry System (KTES)

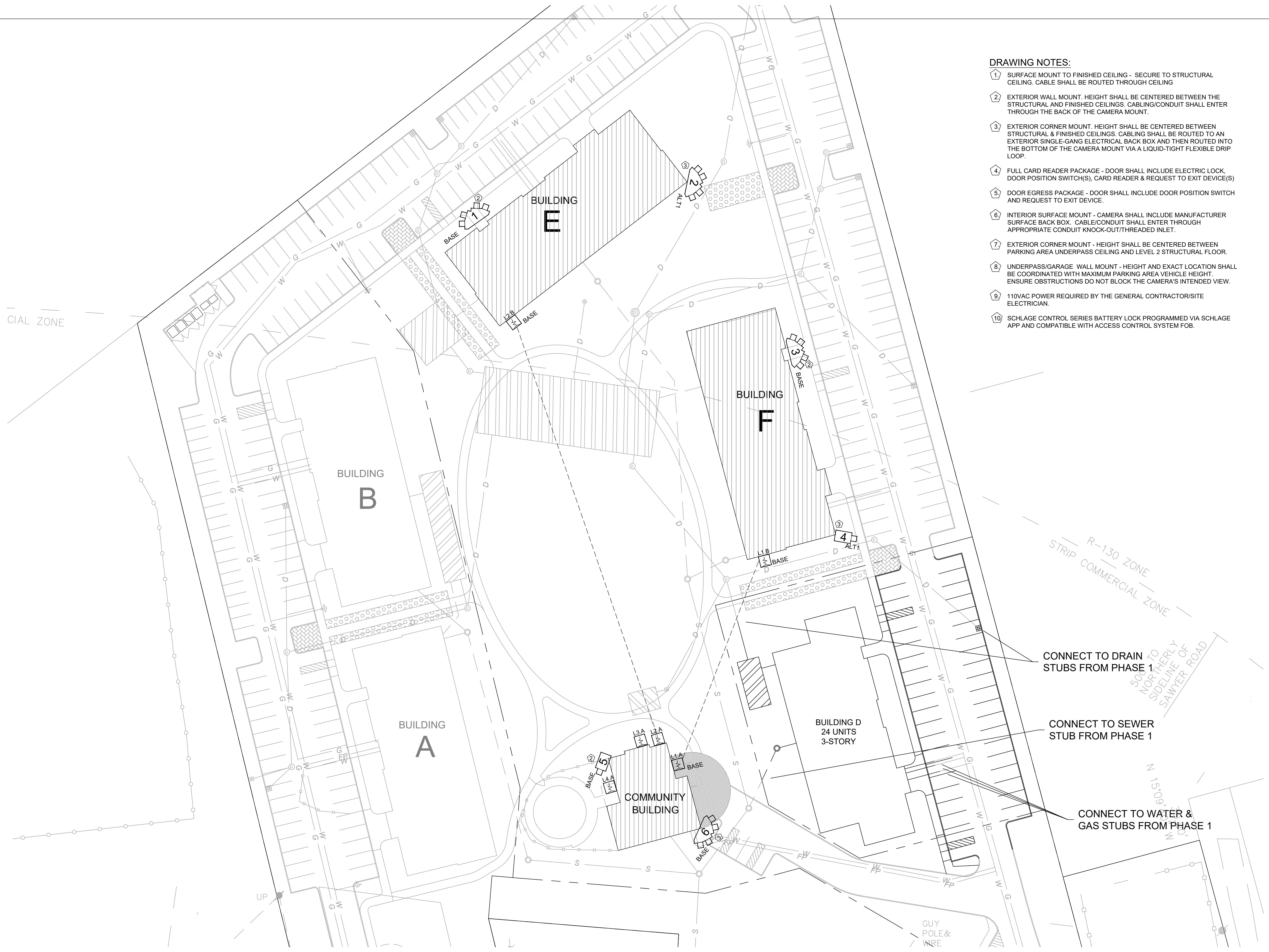
1. The KTES enables tenants to grant access to the building, to their visitors, via their own telephone line or cellular telephone. The KTES supports 250 tenants with the option of supporting up to 3,000 tenants.

### 2.10.F Card and Reader Support

- The SMS shall support configuration of unlimited card formats.
- The SMS shall support up to eight card formats per KT-400 controller or KT-1 controllers
- The SMS shall support readers that provide Wiegand signaling and magnetic ABA signaling to include:

- Kantech ioProx family of readers.
- Kantech ioSmart family of readers.
- Wiegand swipe readers.
- Proximity readers.
- Biometric readers.
- Smart card readers.
- Wireless readers.

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1 SITE SECURITY PLAN  
NOT TO SCALE

- DRAWING NOTES:**
- 1 SURFACE MOUNT TO FINISHED CEILING - SECURE TO STRUCTURAL CEILING. CABLE SHALL BE ROUTED THROUGH CEILING
  - 2 EXTERIOR WALL MOUNT. HEIGHT SHALL BE CENTERED BETWEEN THE STRUCTURAL AND FINISHED CEILINGS. CABLING/CONDUIT SHALL ENTER THROUGH THE BACK OF THE CAMERA MOUNT.
  - 3 EXTERIOR CORNER MOUNT. HEIGHT SHALL BE CENTERED BETWEEN STRUCTURAL & FINISHED CEILINGS. CABLING SHALL BE ROUTED TO AN EXTERIOR SINGLE-GANG ELECTRICAL BACK BOX AND THEN ROUTED INTO THE BOTTOM OF THE CAMERA MOUNT VIA A LIQUID-TIGHT FLEXIBLE DRIP LOOP.
  - 4 FULL CARD READER PACKAGE - DOOR SHALL INCLUDE ELECTRIC LOCK, DOOR POSITION SWITCH(S), CARD READER & REQUEST TO EXIT DEVICE(S)
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  - 8 UNDERPASS/GARAGE WALL MOUNT - HEIGHT AND EXACT LOCATION SHALL BE COORDINATED WITH MAXIMUM PARKING AREA VEHICLE HEIGHT. ENSURE OBSTRUCTIONS DO NOT BLOCK THE CAMERA'S INTENDED VIEW.
  - 9 110VAC POWER REQUIRED BY THE GENERAL CONTRACTOR/SITE ELECTRICIAN.
  - 10 SCHLAGE CONTROL SERIES BATTERY LOCK PROGRAMMED VIA SCHLAGE APP AND COMPATIBLE WITH ACCESS CONTROL SYSTEM FOB.

CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

**Ed Wojcik**  
*architect, ltd*  
 One Richmond Square  
 Providence, RI 02906  
 401-861-7139

Proposed Design for:  
**Woodland Cove**  
**Phase I**  
 Buildings E, F, & COMMUNITY BUILDING  
 3102 Cranberry Highway  
 Wareham, MA 02552

SHEET CONTENTS:  
 Site Security Plan

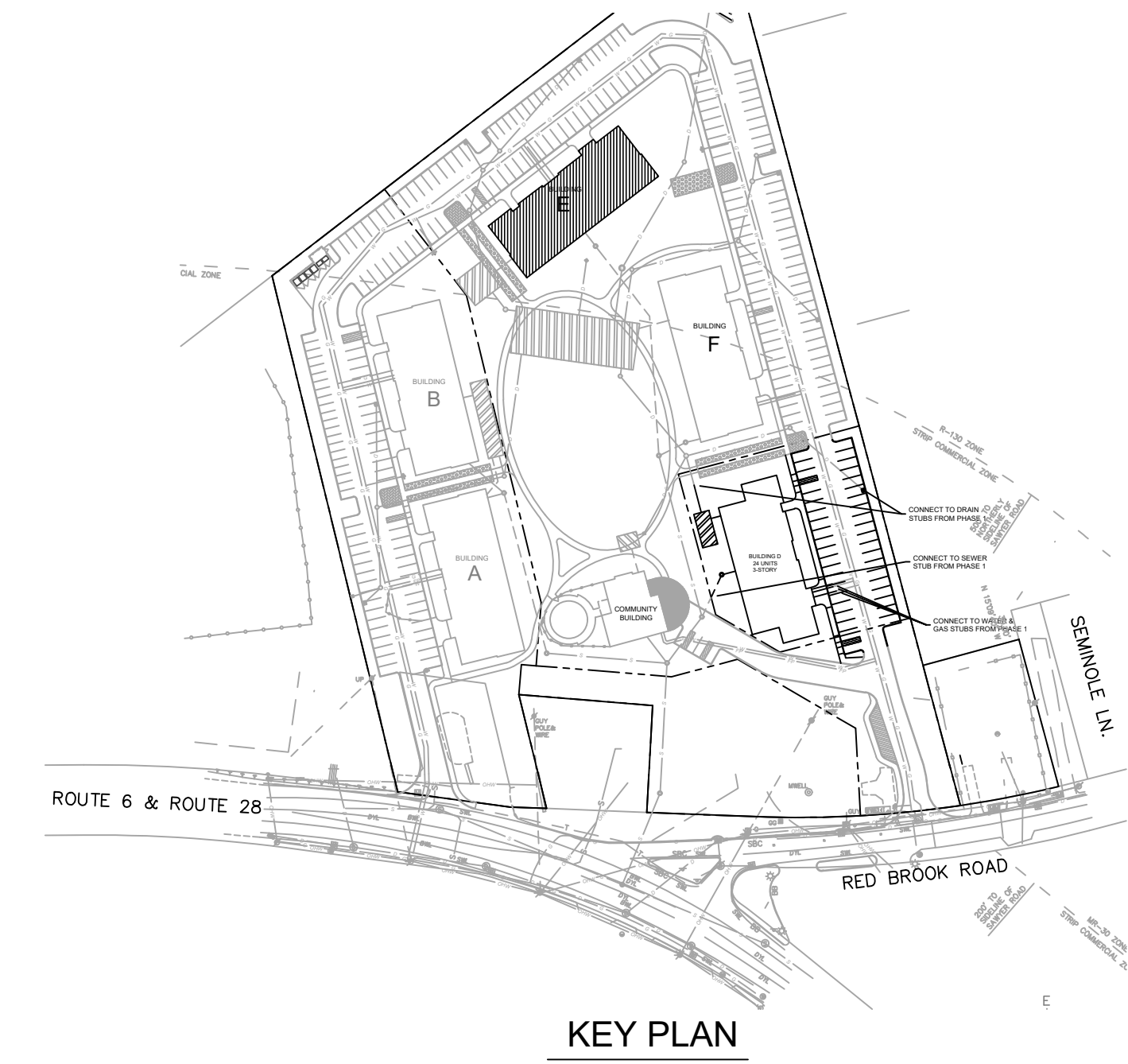
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DATE: 9/22/2020  
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 1 REVISED: 02/16/2021

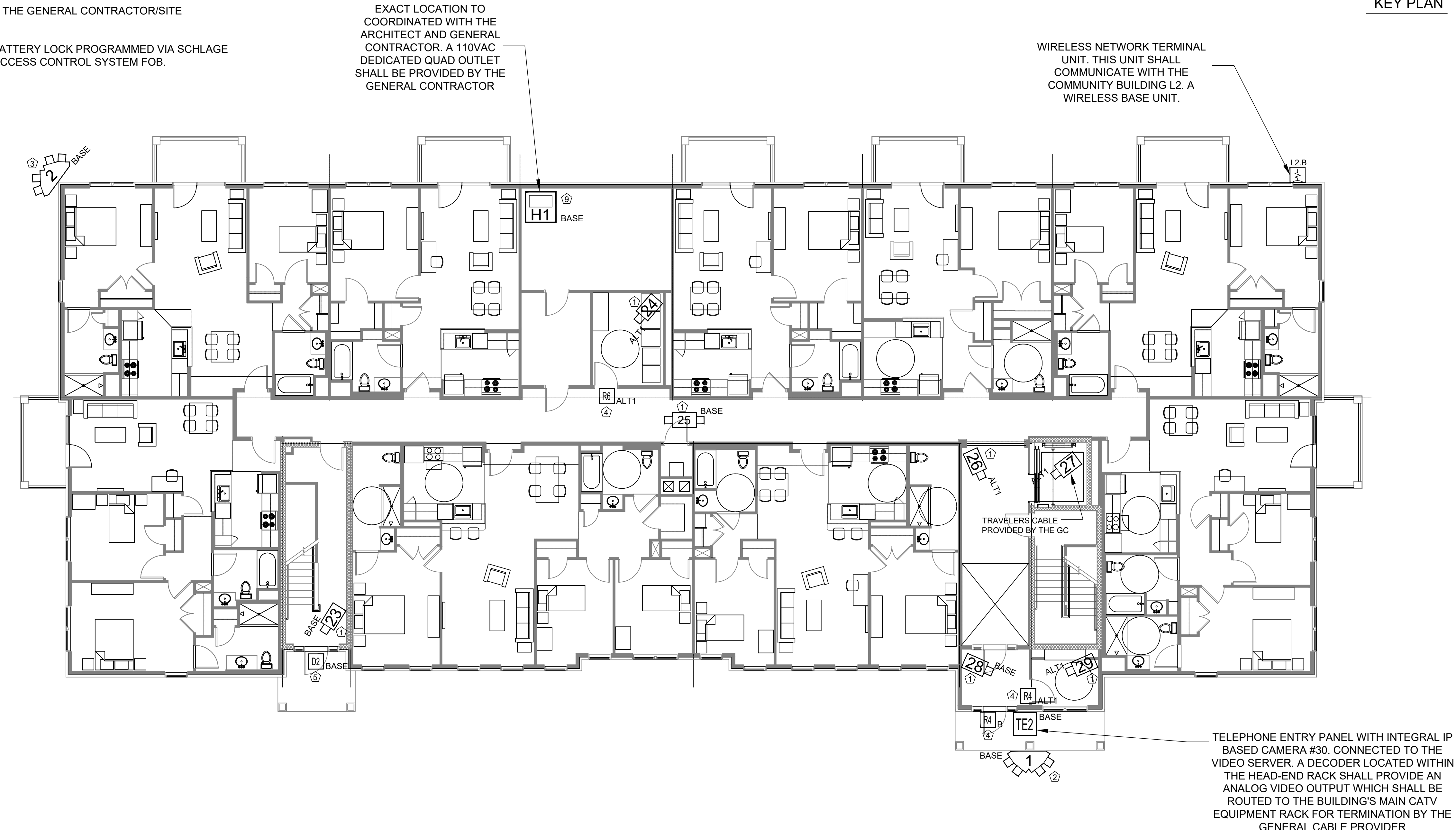
**SEC.4**

**DRAWING NOTES:**

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9. 110VAC POWER REQUIRED BY THE GENERAL CONTRACTOR/SITE ELECTRICIAN.
10. SCHLAGE CONTROL SERIES BATTERY LOCK PROGRAMMED VIA SCHLAGE APP AND COMPATIBLE WITH ACCESS CONTROL SYSTEM FOB.



**KEY PLAN**



**1 BUILDING E FIRST FLOOR SECURITY PLAN**  
NOT TO SCALE

TELEPHONE ENTRY PANEL WITH INTEGRAL IP BASED CAMERA #30. CONNECTED TO THE VIDEO SERVER. A DECODER LOCATED WITHIN THE HEAD-END RACK SHALL PROVIDE AN ANALOG VIDEO OUTPUT WHICH SHALL BE ROUTED TO THE BUILDING'S MAIN CATV EQUIPMENT RACK FOR TERMINATION BY THE GENERAL CABLE PROVIDER

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**Ed Wojcik**  
architect, ltd  
One Richmond Square  
Providence, RI 02906  
401-861-7139

Proposed Design for:  
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Wareham, MA 02552

CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

**SHEET CONTENTS:**

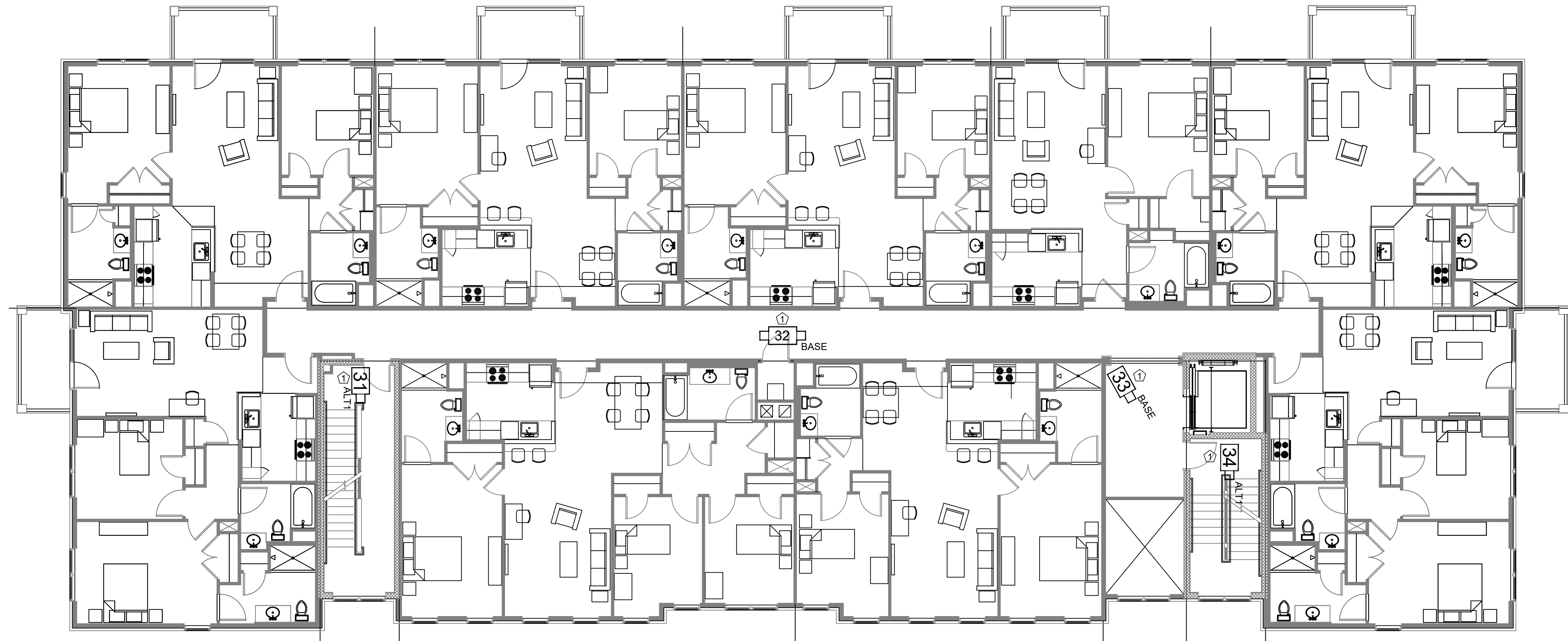
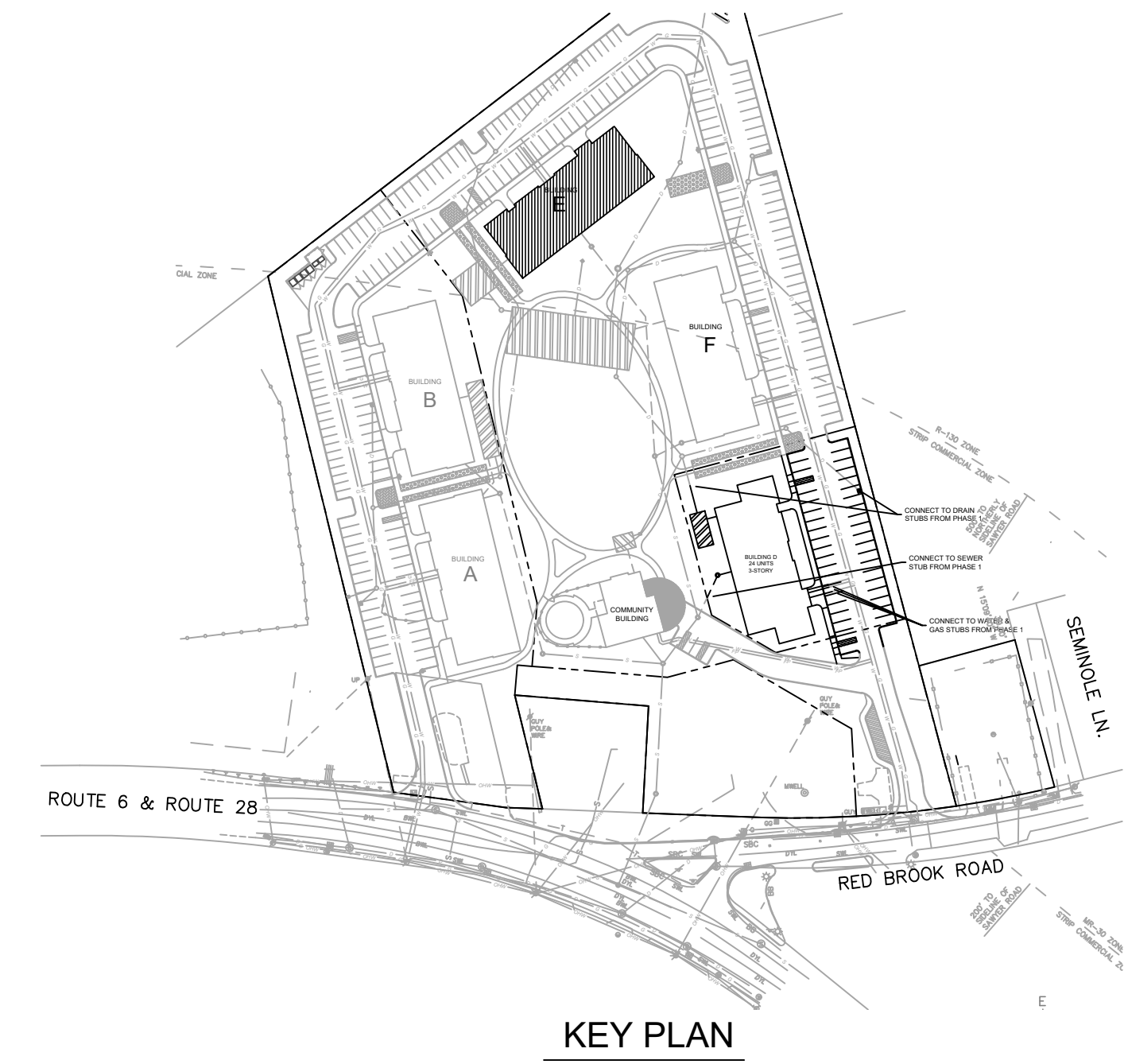
Building E  
First Floor  
Security Plan

PROJECT # 1420  
DATE: 9/22/2020  
REVISED DATE:  
REVISED: 02/16/2021

**SEC.5**

**DRAWING NOTES:**

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9. 110VAC POWER REQUIRED BY THE GENERAL CONTRACTOR/SITE ELECTRICIAN.
10. SCHLAGE CONTROL SERIES BATTERY LOCK PROGRAMMED VIA SCHLAGE APP AND COMPATIBLE WITH ACCESS CONTROL SYSTEM FOB.



**1** BUILDING E SECOND FLOOR SECURITY PLAN  
NOT TO SCALE

**Ed Wojcik**  
architect, ltd  
One Richmond Square  
Providence, RI 02906  
401-861-7139

Proposed Design for:  
**Woodland Cove**  
**Phase I**  
Buildings E, F, & COMMUNITY BUILDING  
3102 Cranberry Highway  
Wareham, MA 02552

SHEET CONTENTS:  
  
Building E  
Second Floor  
Security Plan

PROJECT # 1420  
DATE: 9/22/2020  
REVISED DATE:  
REVISED: 02/16/2021

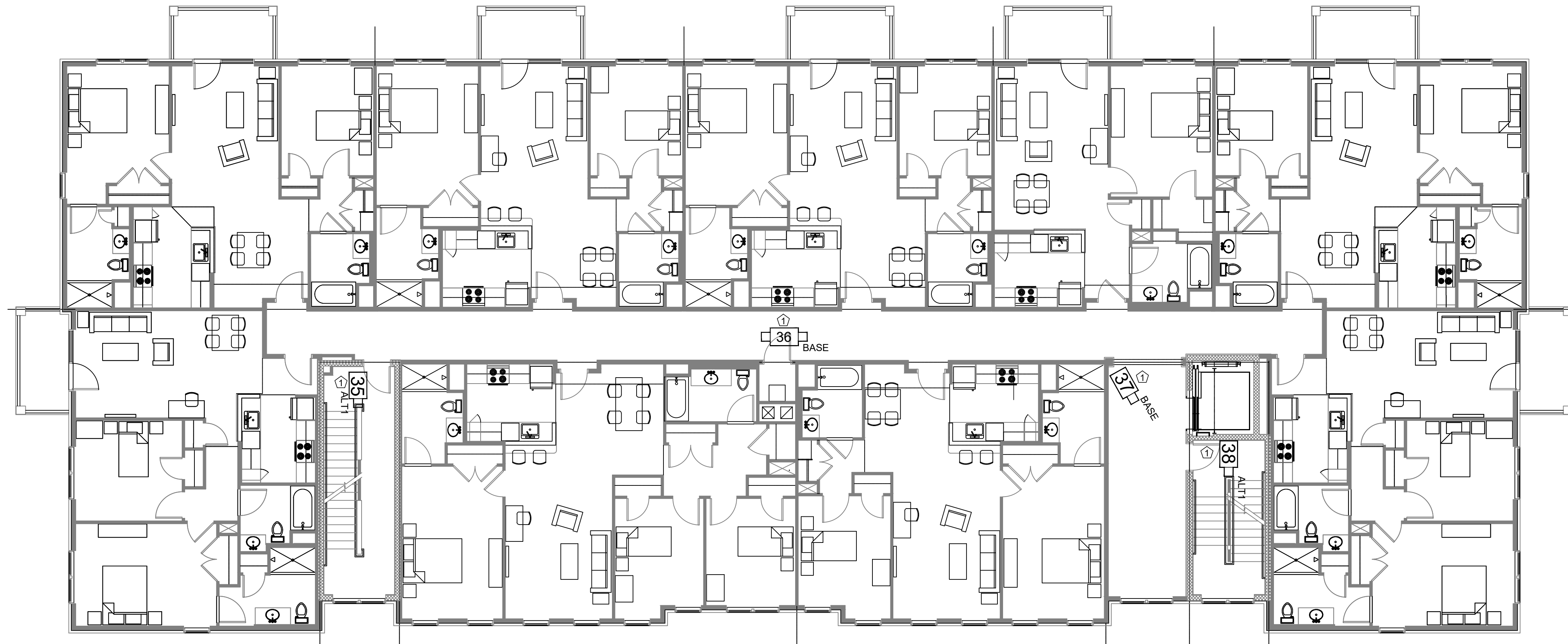
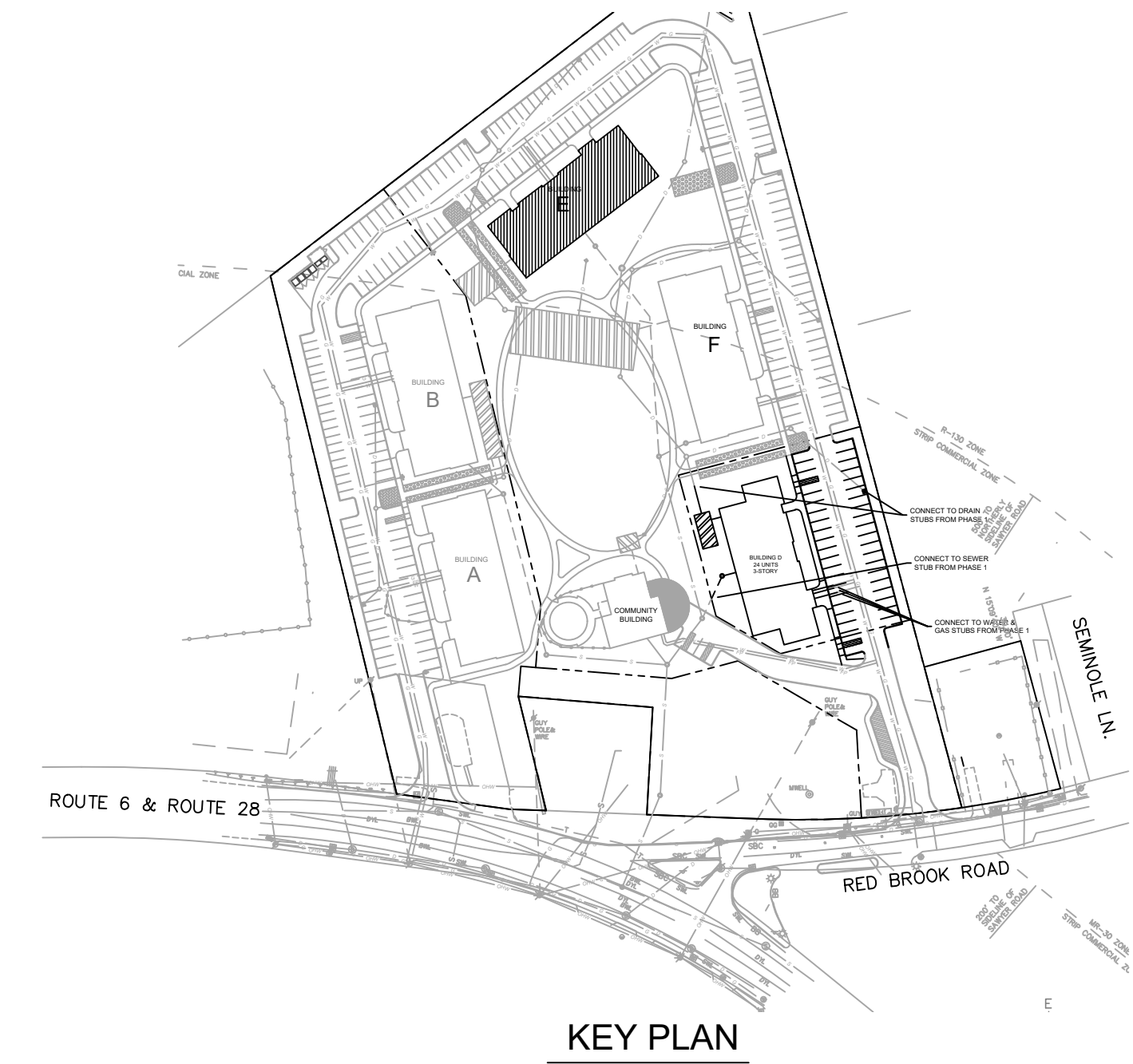
**SEC.6**

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**DRAWING NOTES:**

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10. SCHLAGE CONTROL SERIES BATTERY LOCK PROGRAMMED VIA SCHLAGE APP AND COMPATIBLE WITH ACCESS CONTROL SYSTEM FOB.



**1** BUILDING E THIRD FLOOR SECURITY PLAN  
NOT TO SCALE

**Ed Wojcik**  
architect, ltd  
One Richmond Square  
Providence, RI 02906  
401-861-7139

Proposed Design for:  
**Woodland Cove**  
**Phase I**  
Buildings E, F, & COMMUNITY BUILDING  
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Wareham, MA 02552

SHEET CONTENTS:  
  
Building E  
Third Floor  
Security Plan

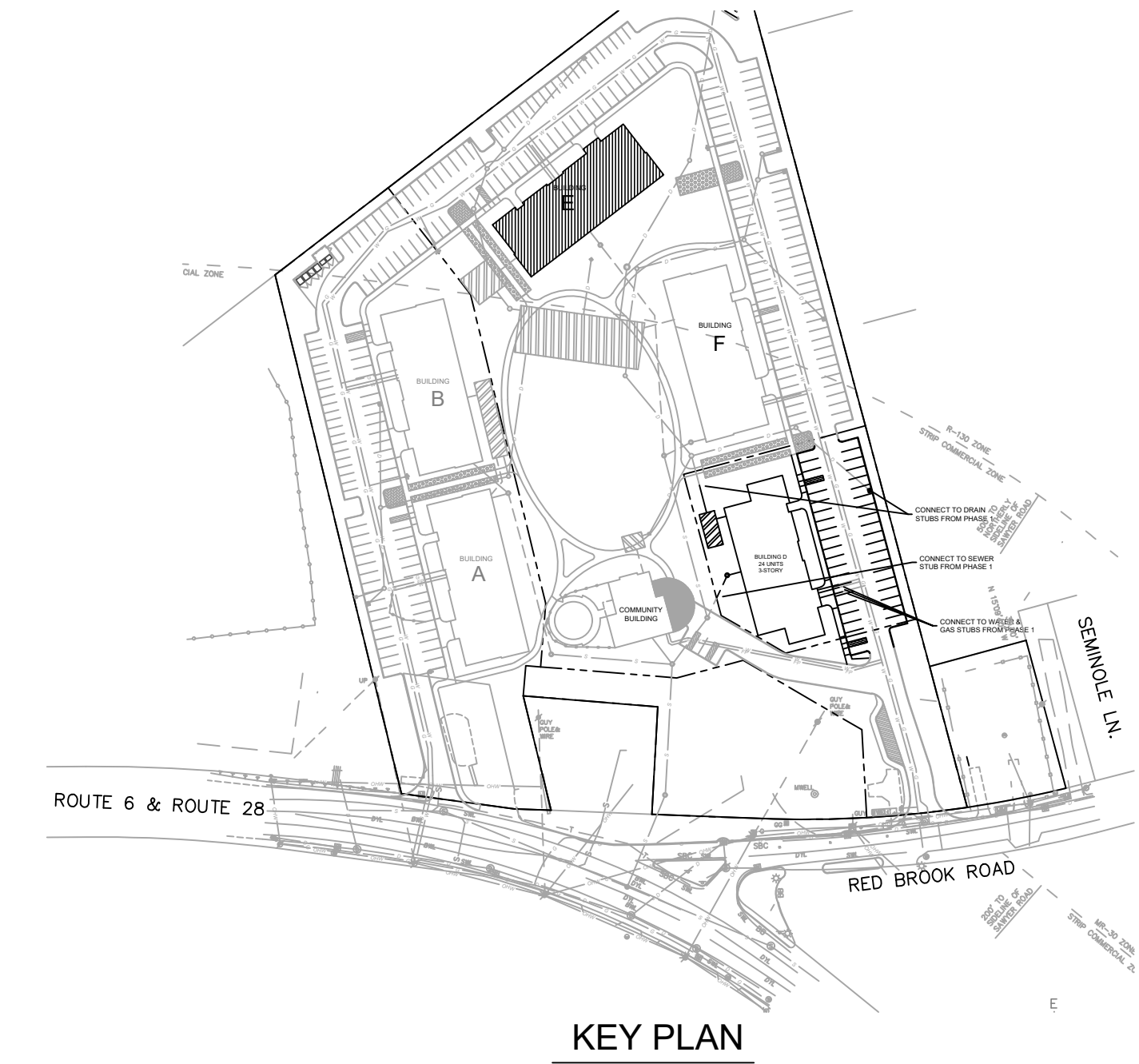
PROJECT # 1420  
  
DATE: 9/22/2020  
REVISED DATE:  
REVISED: 02/16/2021

**SEC.7**

CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

**DRAWING NOTES:**

1. SURFACE MOUNT TO FINISHED CEILING - SECURE TO STRUCTURAL CEILING. CABLE SHALL BE ROUTED THROUGH CEILING
2. EXTERIOR WALL MOUNT. HEIGHT SHALL BE CENTERED BETWEEN THE STRUCTURAL AND FINISHED CEILINGS. CABLING/CONDUIT SHALL ENTER THROUGH THE BACK OF THE CAMERA MOUNT.
3. EXTERIOR CORNER MOUNT. HEIGHT SHALL BE CENTERED BETWEEN STRUCTURAL & FINISHED CEILINGS. CABLING SHALL BE ROUTED TO AN EXTERIOR SINGLE-GANG ELECTRICAL BACK BOX AND THEN ROUTED INTO THE BOTTOM OF THE CAMERA MOUNT VIA A LIQUID-TIGHT FLEXIBLE DRIP LOOP.
4. FULL CARD READER PACKAGE - DOOR SHALL INCLUDE ELECTRIC LOCK, DOOR POSITION SWITCH(S), CARD READER & REQUEST TO EXIT DEVICE(S)
5. DOOR EGRESS PACKAGE - DOOR SHALL INCLUDE DOOR POSITION SWITCH AND REQUEST TO EXIT DEVICE.
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7. EXTERIOR CORNER MOUNT - HEIGHT SHALL BE CENTERED BETWEEN PARKING AREA UNDERPASS CEILING AND LEVEL 2 STRUCTURAL FLOOR.
8. UNDERPASS/GARAGE WALL MOUNT - HEIGHT AND EXACT LOCATION SHALL BE COORDINATED WITH MAXIMUM PARKING AREA VEHICLE HEIGHT. ENSURE OBSTRUCTIONS DO NOT BLOCK THE CAMERA'S INTENDED VIEW.
9. 110VAC POWER REQUIRED BY THE GENERAL CONTRACTOR/SITE ELECTRICIAN.
10. SCHLAGE CONTROL SERIES BATTERY LOCK PROGRAMMED VIA SCHLAGE APP AND COMPATIBLE WITH ACCESS CONTROL SYSTEM FOB.



**1 BUILDING E FOURTH FLOOR SECURITY PLAN**  
NOT TO SCALE

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**Ed Wojcik**  
architect, ltd  
One Richmond Square  
Providence, RI 02906  
401-861-7139

Proposed Design for:  
**Woodland Cove**  
**Phase I**  
Buildings E, F, & COMMUNITY BUILDING  
3102 Cranberry Highway  
Wareham, MA 02552

SHEET CONTENTS:

Building E  
Fourth Floor  
Security Plan

PROJECT # 1420

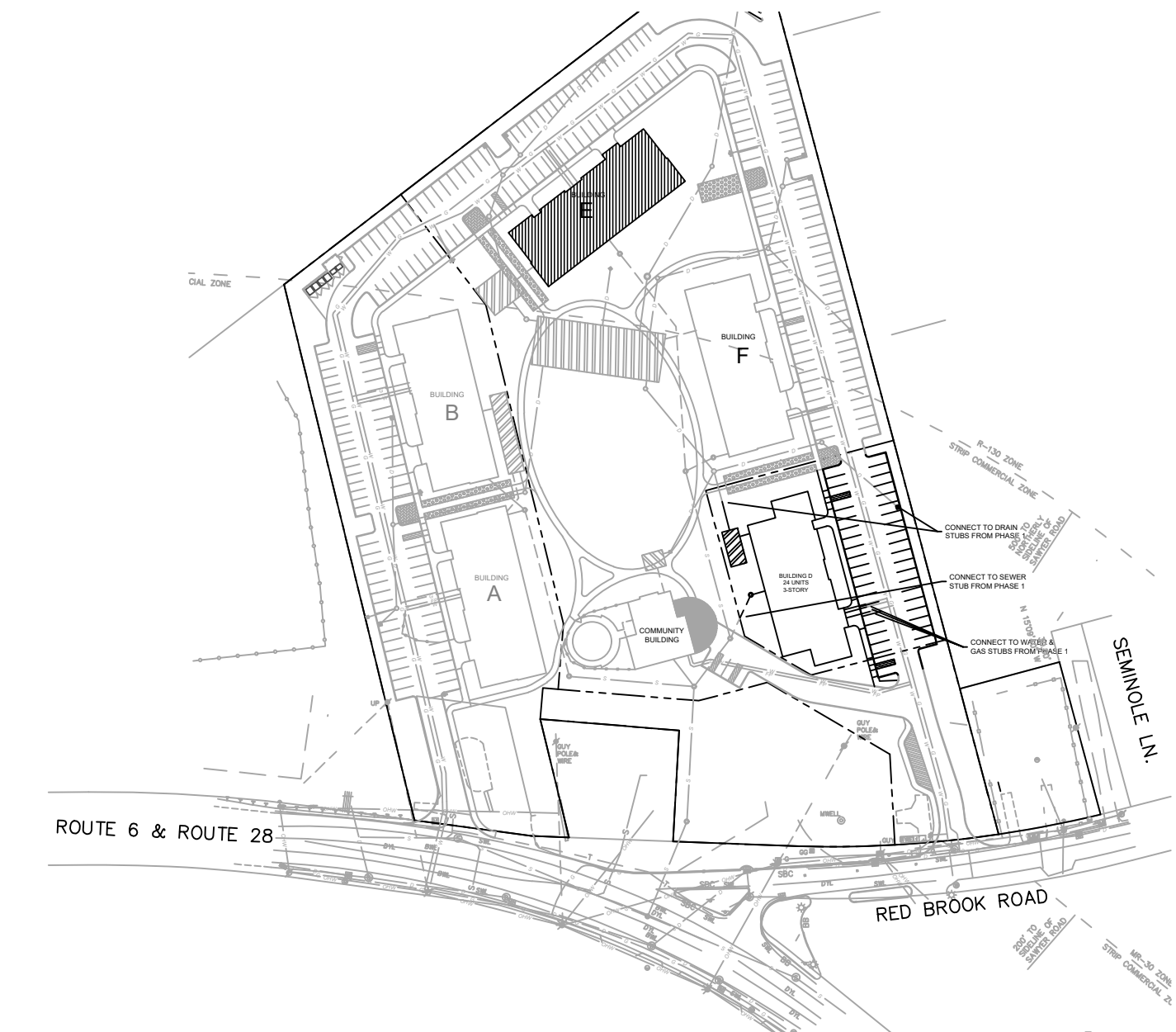
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REVISED DATE:  
1. REVISED: 02/16/2021

**SEC.8**

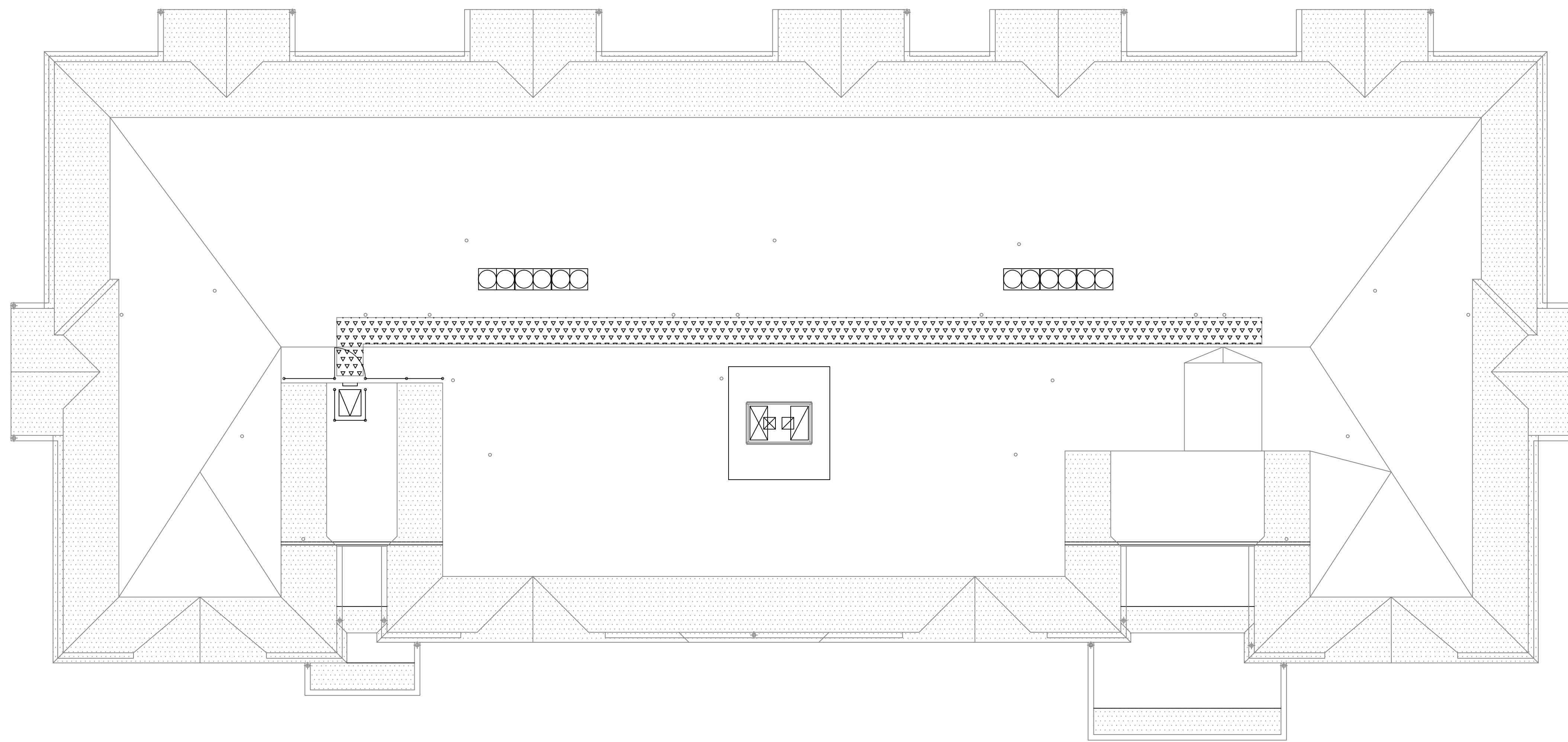
CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

**DRAWING NOTES:**

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**KEY PLAN**



**1 BUILDING E ROOF SECURITY PLAN**  
NOT TO SCALE

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**Ed Wojcik**  
architect, ltd  
One Richmond Square  
Providence, RI 02906  
401-861-7139

Proposed Design for:  
**Woodland Cove**  
**Phase I**  
Buildings E, F, & COMMUNITY BUILDING  
3102 Cranberry Highway  
Wareham, MA 02552

CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

SHEET CONTENTS:

Building E  
Roof  
Security Plan

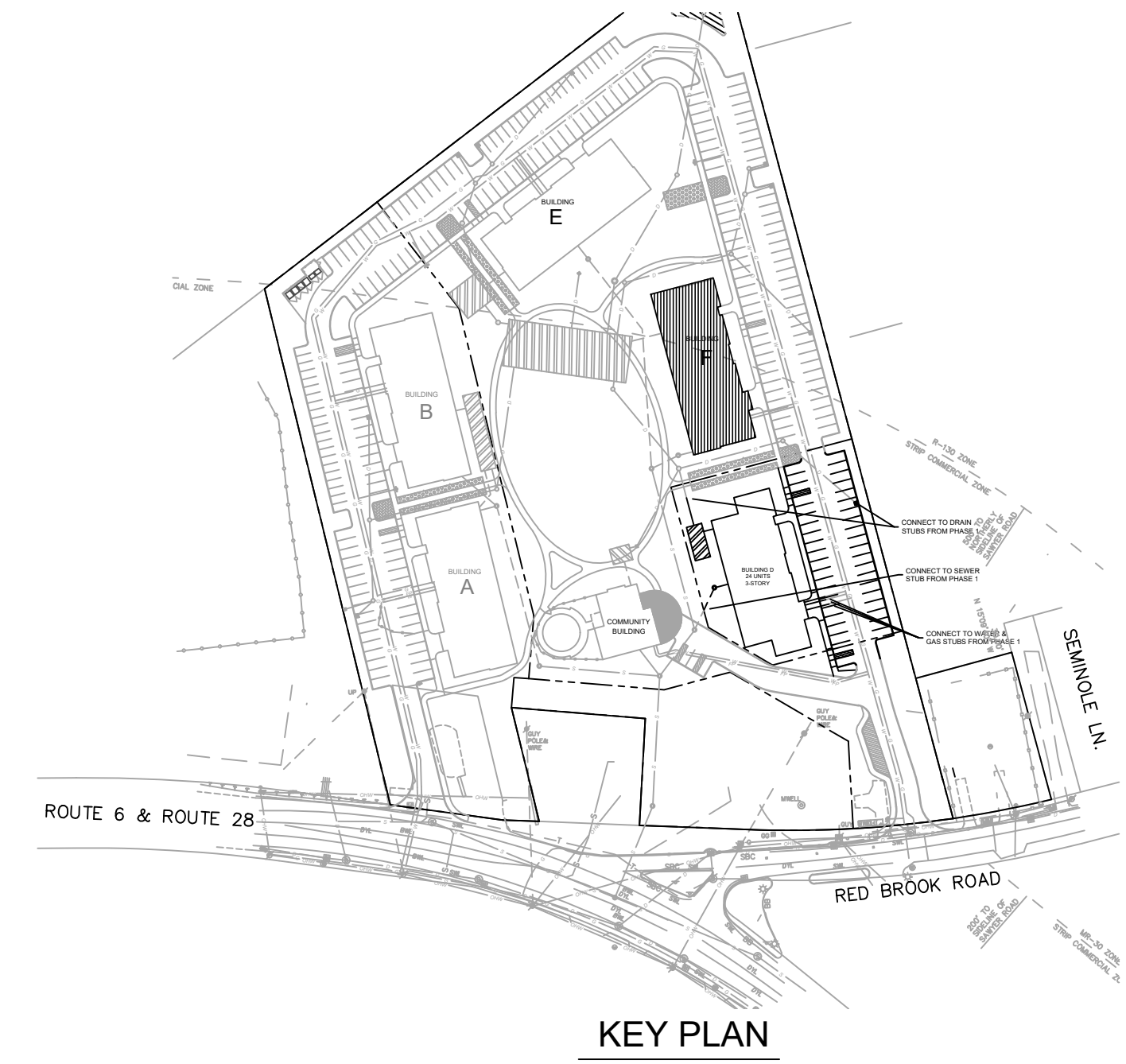
PROJECT # 1420

DATE: 9/22/2020  
REVISED DATE:  
REVISED: 02/16/2021

**SEC.9**

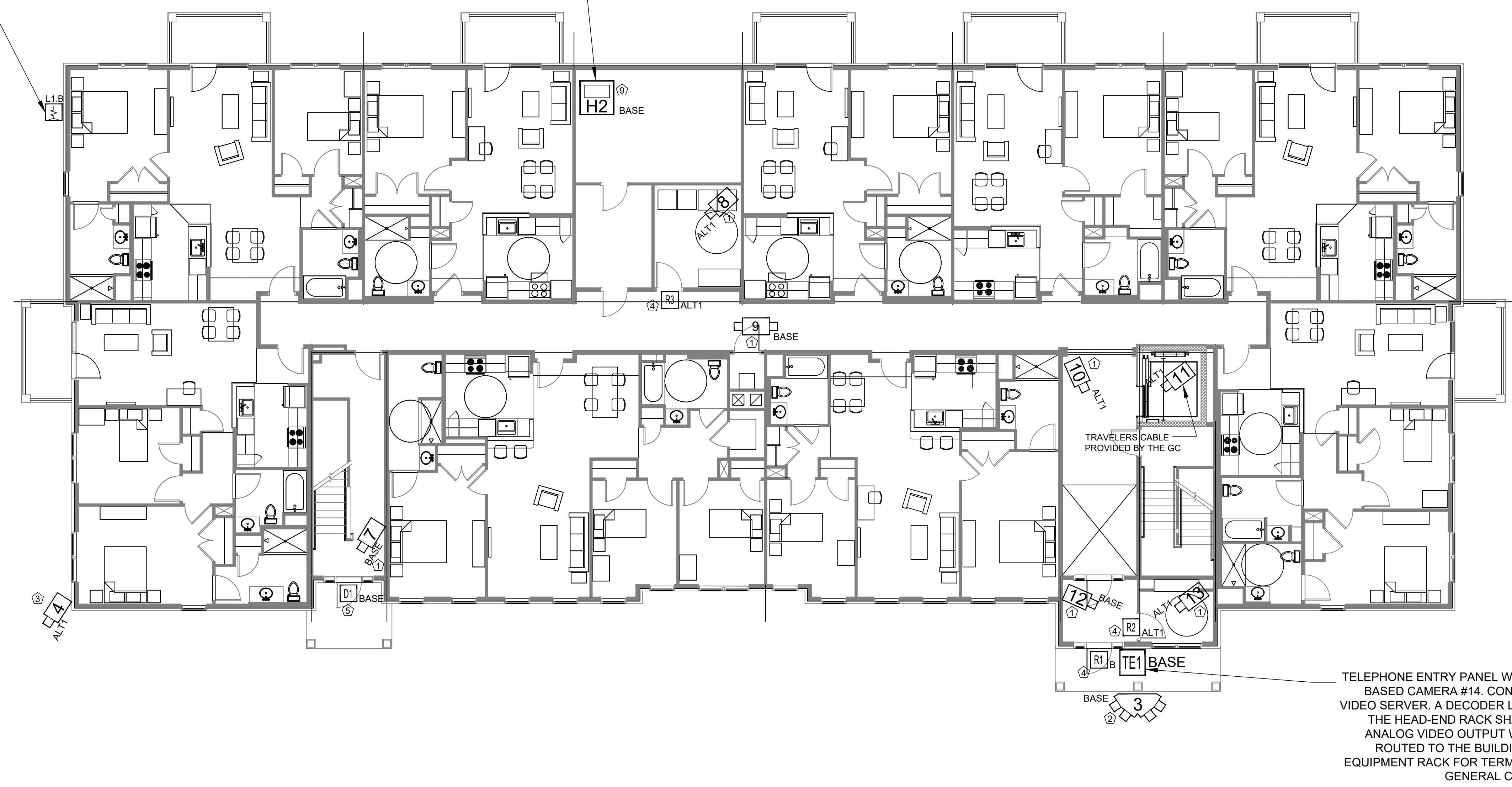
**DRAWING NOTES:**

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WIRELESS NETWORK TERMINAL UNIT. THIS UNIT SHALL COMMUNICATE WITH THE COMMUNITY BUILDING WIRELESS BASE UNIT.

EXACT LOCATION TO COORDINATED WITH THE ARCHITECT AND GENERAL CONTRACTOR. A 110VAC DEDICATED QUAD OUTLET SHALL BE PROVIDED BY THE GENERAL CONTRACTOR



TELEPHONE ENTRY PANEL WITH INTEGRAL IP BASED CAMERA #14. CONNECTED TO THE VIDEO SERVER. A DECODER LOCATED WITHIN THE HEAD-END RACK SHALL PROVIDE AN ANALOG VIDEO OUTPUT WHICH SHALL BE ROUTED TO THE BUILDING'S MAIN CATV EQUIPMENT RACK FOR TERMINATION BY THE GENERAL CABLE PROVIDER

**1 BUILDING F FIRST FLOOR SECURITY PLAN**  
NOT TO SCALE

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**Ed Wojcik**  
architect, ltd  
One Richmond Square  
Providence, RI 02906  
401-861-7139

Proposed Design for:  
**Woodland Cove**  
**Phase I**  
Buildings E, F, & COMMUNITY BUILDING  
3102 Cranberry Highway  
Wareham, MA 02552

CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

SHEET CONTENTS:

Building F  
First Floor  
Security Plan

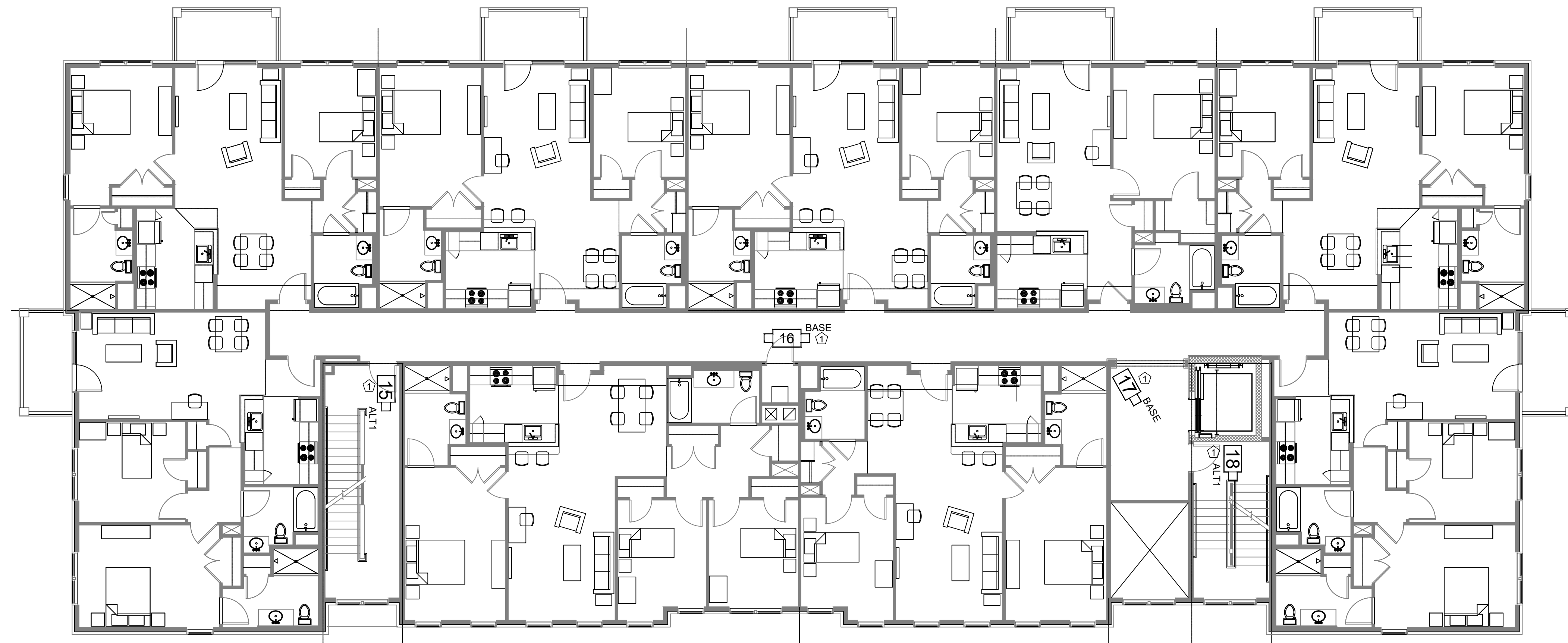
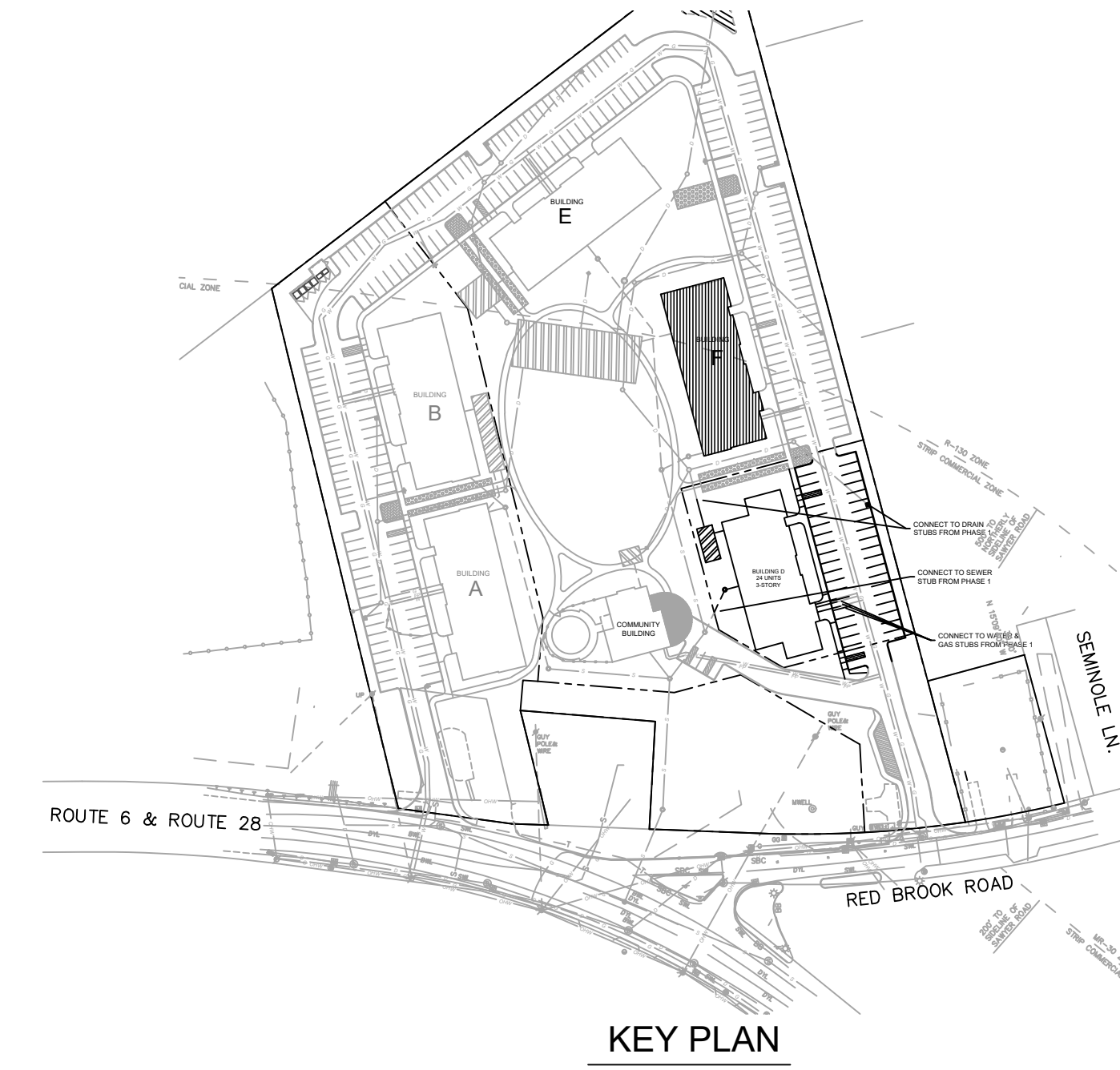
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DATE: 9/22/2020  
REVISED DATE:  
REVISED: 02/16/2021

**SEC.10**



**DRAWING NOTES:**

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**1 BUILDING F SECOND FLOOR SECURITY PLAN**  
NOT TO SCALE

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SHEET CONTENTS:

Building F  
Second Floor  
Security Plan

PROJECT # 1420

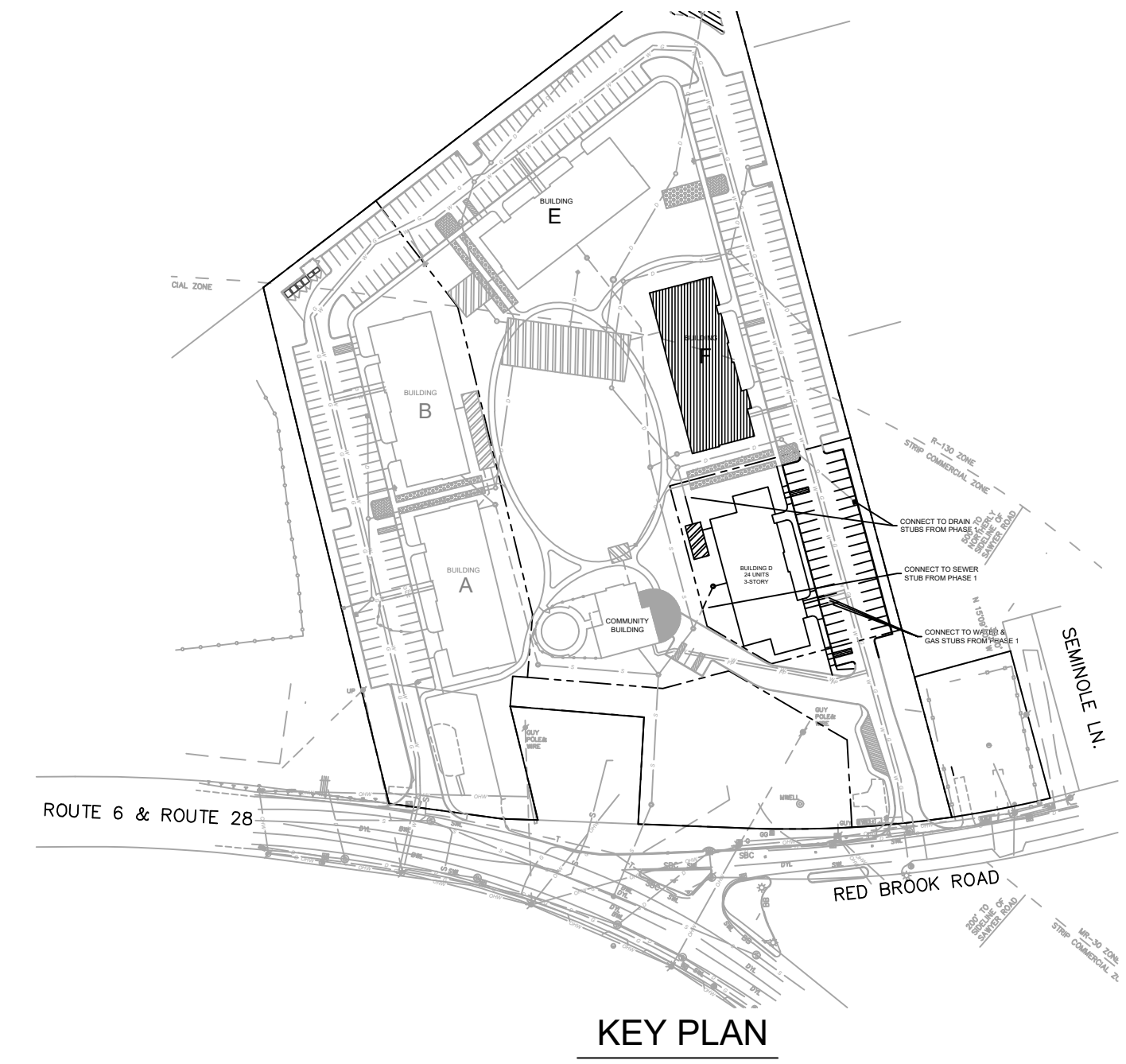
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REVISED: 02/16/2021

**SEC.11**

CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

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**1** BUILDING F THIRD FLOOR SECURITY PLAN  
NOT TO SCALE

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**Ed Wojcik**  
architect, ltd  
One Richmond Square  
Providence, RI 02906  
401-861-7139

Proposed Design for:  
**Woodland Cove**  
**Phase I**  
Buildings E, F, & COMMUNITY BUILDING  
3102 Cranberry Highway  
Wareham, MA 02552

SHEET CONTENTS:

Building F  
Third Floor  
Security Plan

PROJECT # 1420

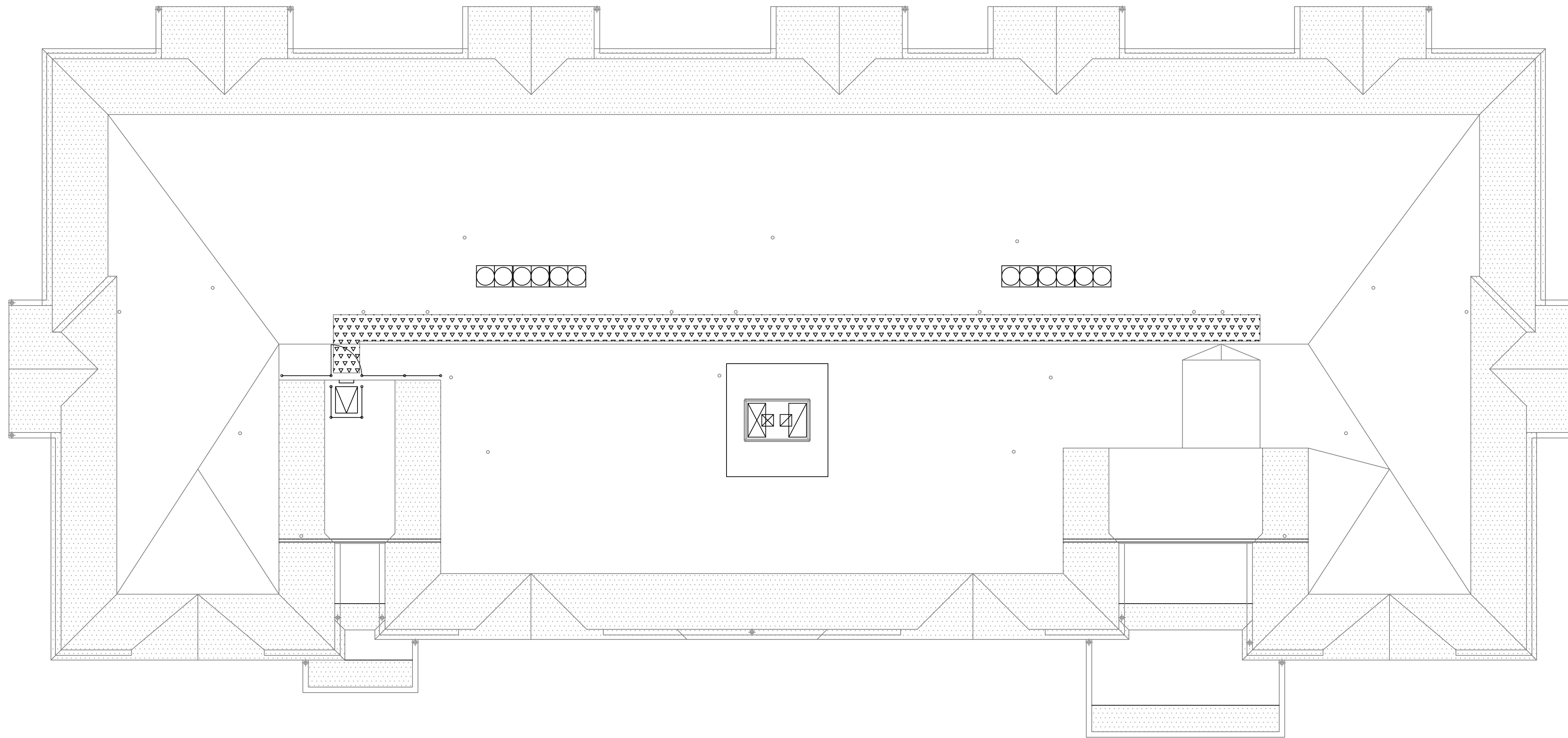
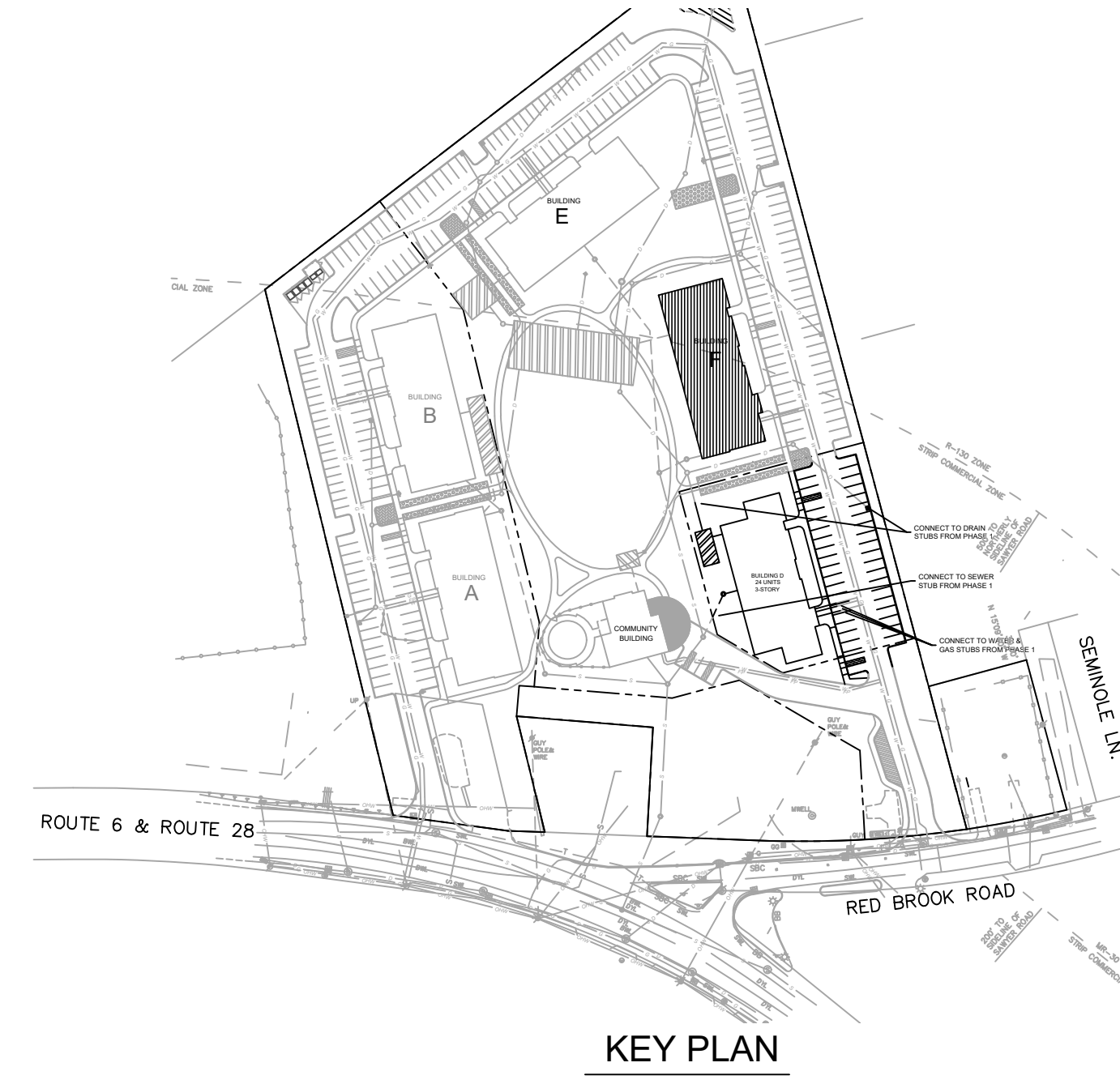
DATE: 9/22/2020  
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REVISED: 02/16/2021

**SEC.12**

CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

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**1** BUILDING F ROOF SECURITY PLAN  
NOT TO SCALE

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**Ed Wojcik**  
architect, ltd  
One Richmond Square  
Providence, RI 02906  
401-861-7139

Proposed Design for:  
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**Phase I**  
Buildings E, F, & COMMUNITY BUILDING  
3102 Cranberry Highway  
Wareham, MA 02552

CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

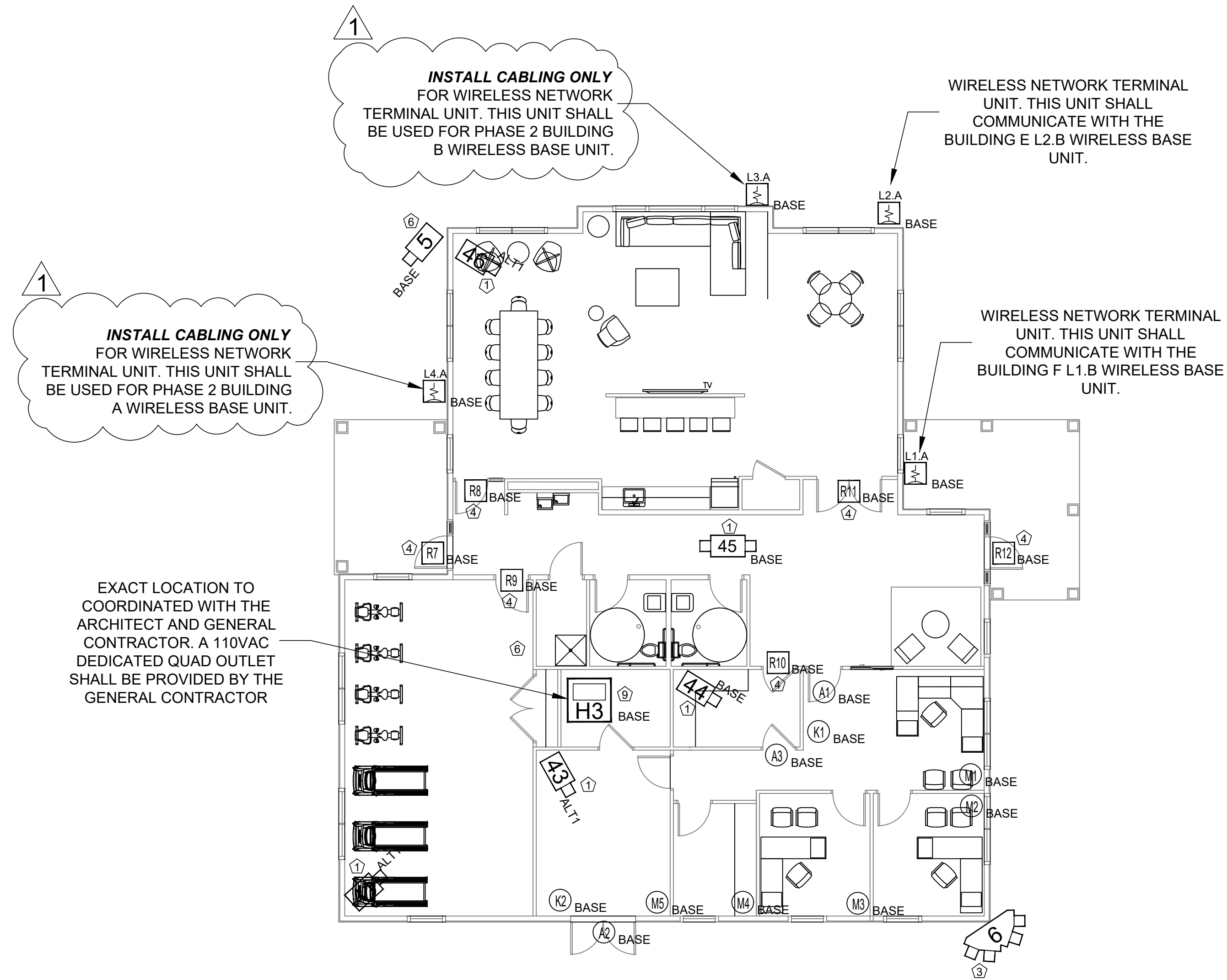
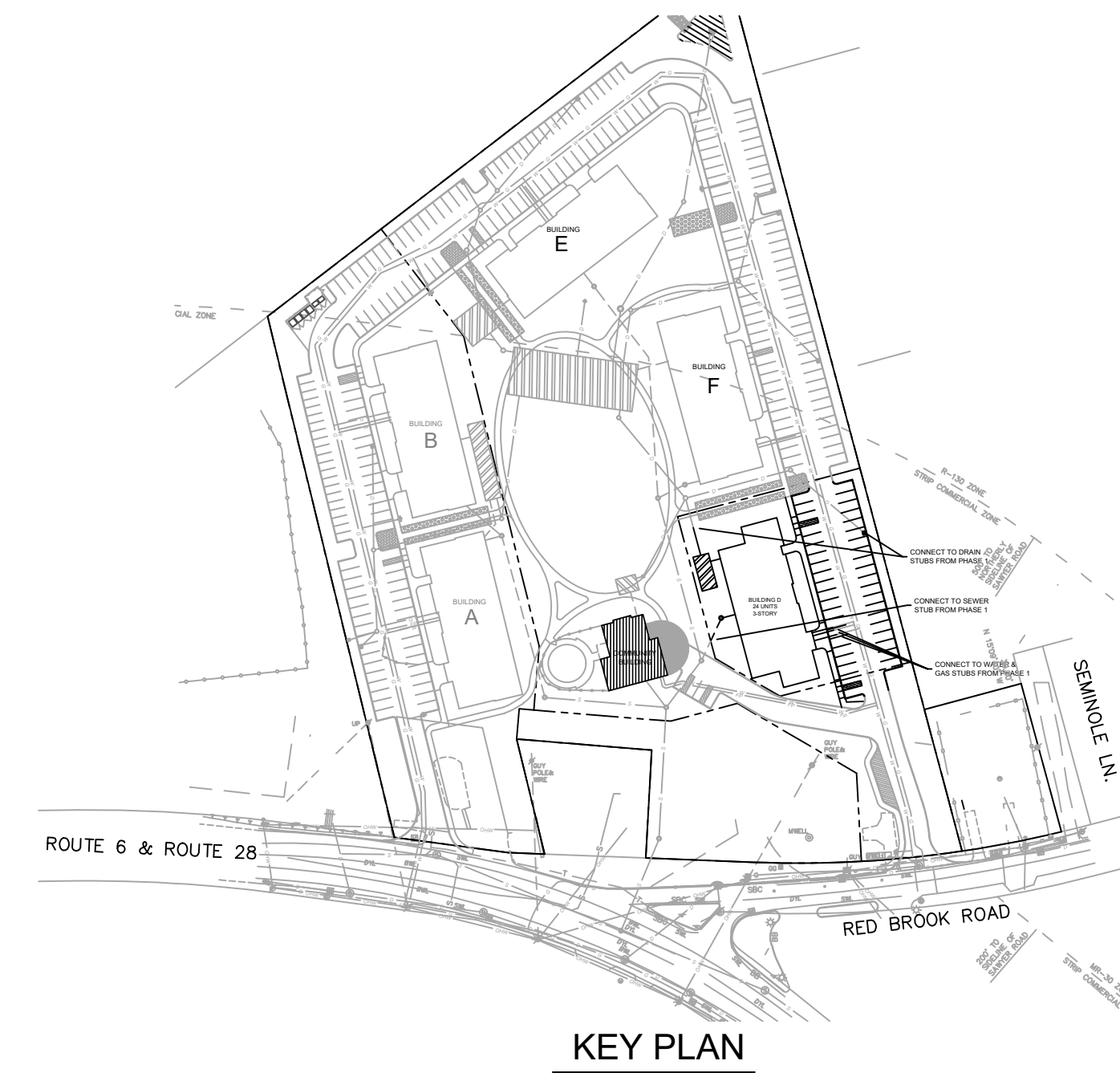
SHEET CONTENTS:  
  
Building F  
Roof  
Security Plan

PROJECT # 1420  
DATE: 9/22/2020  
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REVISED: 02/16/2021

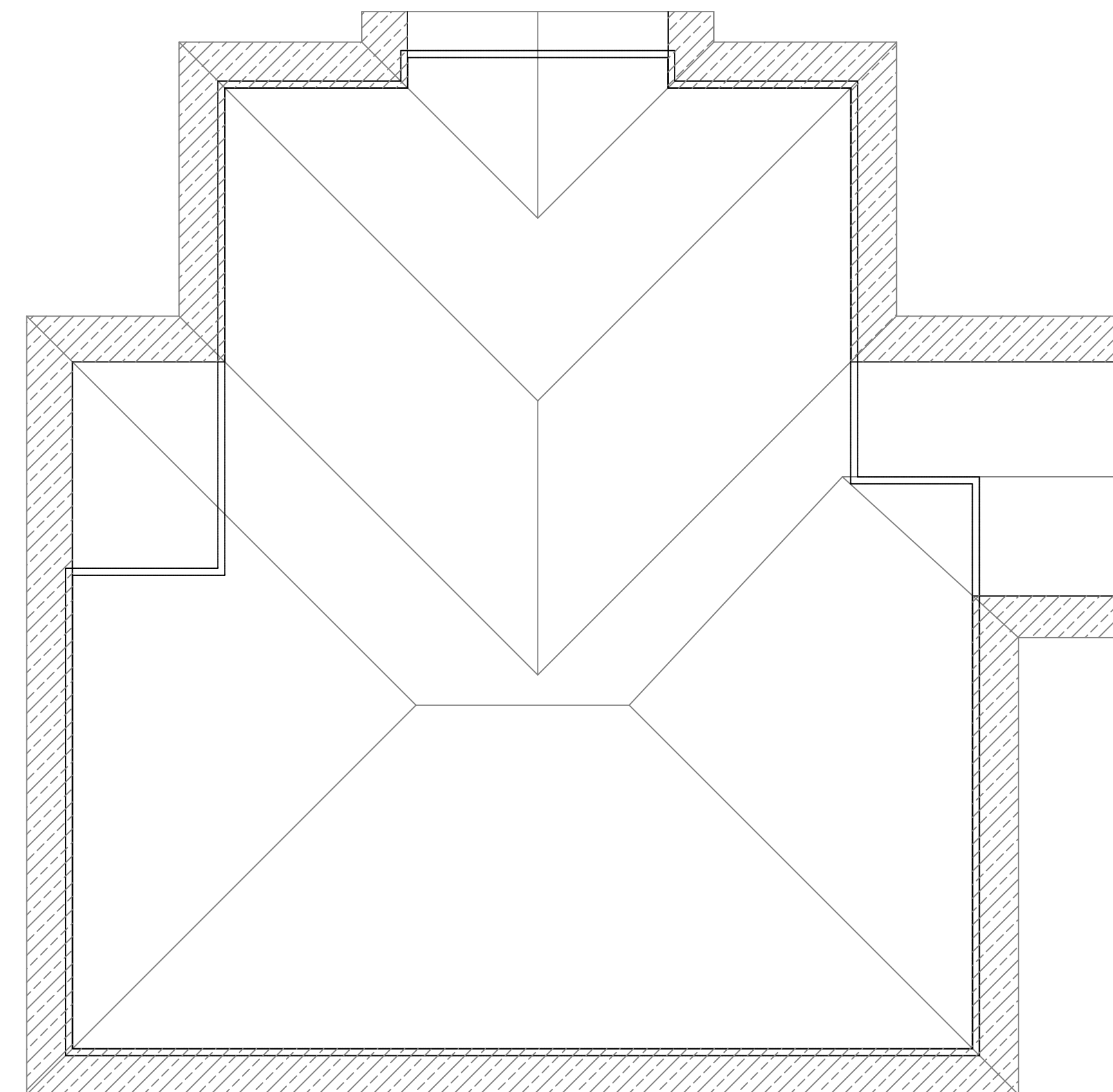
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**DRAWING NOTES:**

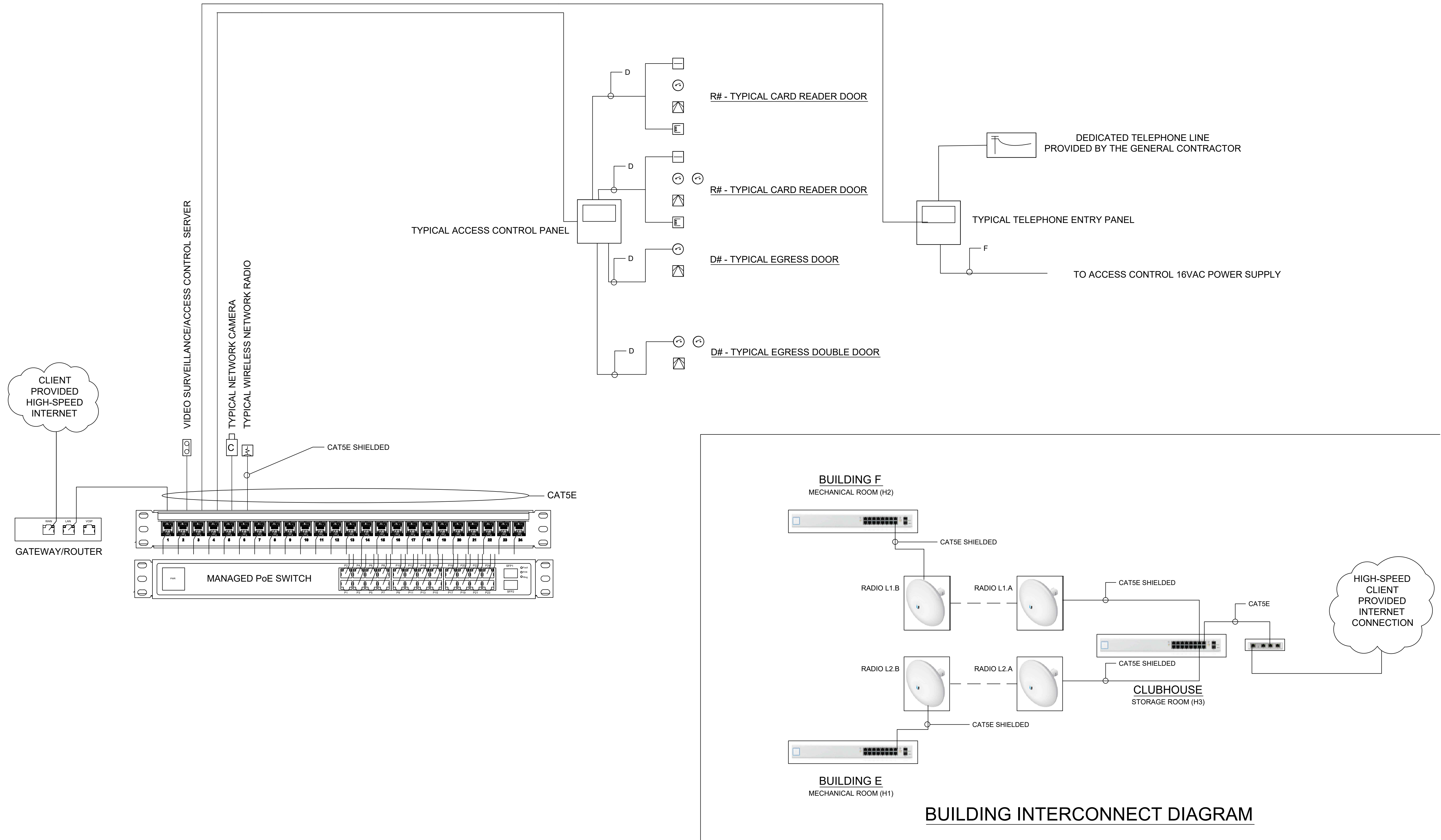
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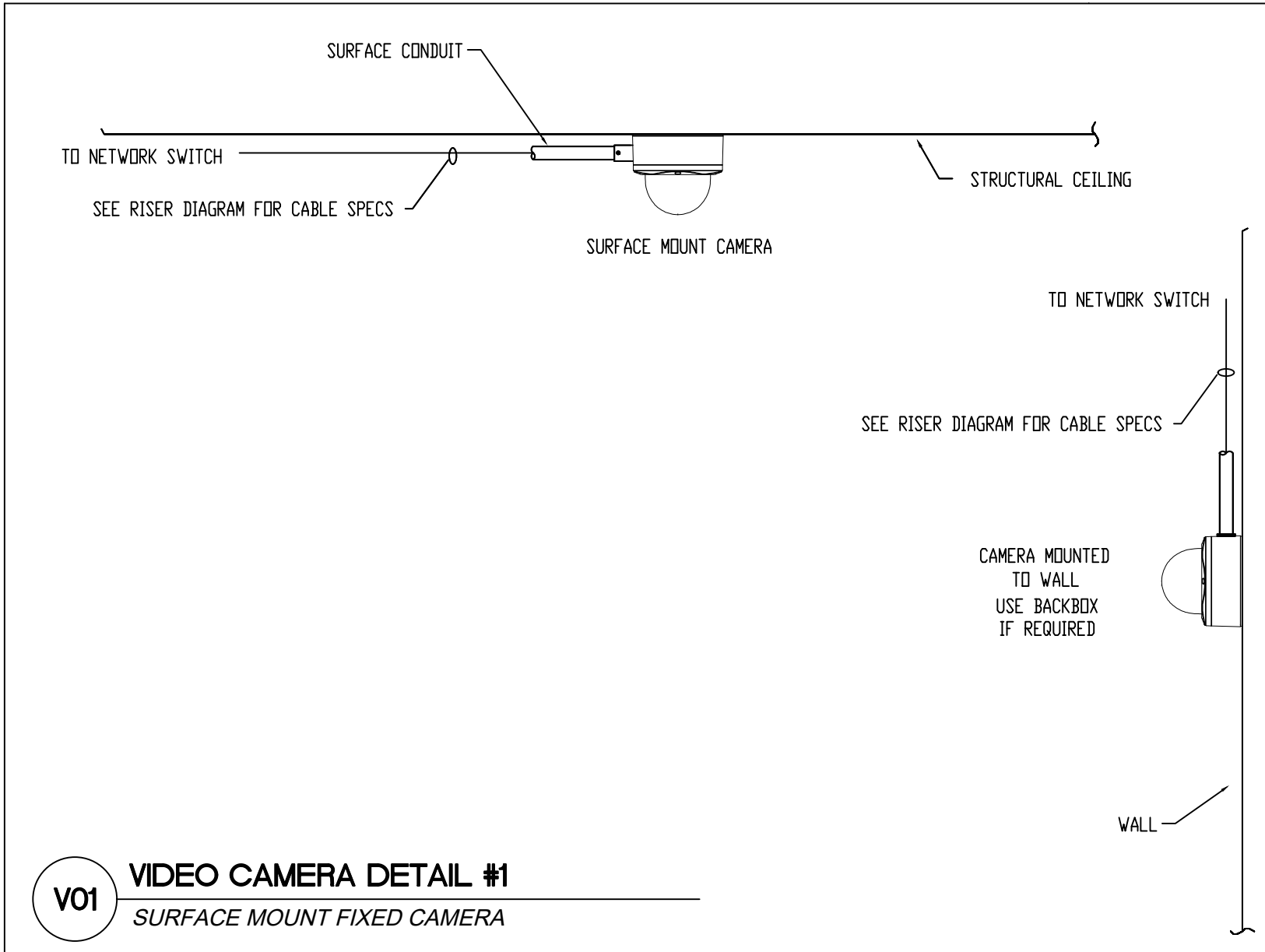


1 COMMUNITY BUILDING FIRST FLOOR SECURITY PLAN  
NOT TO SCALE

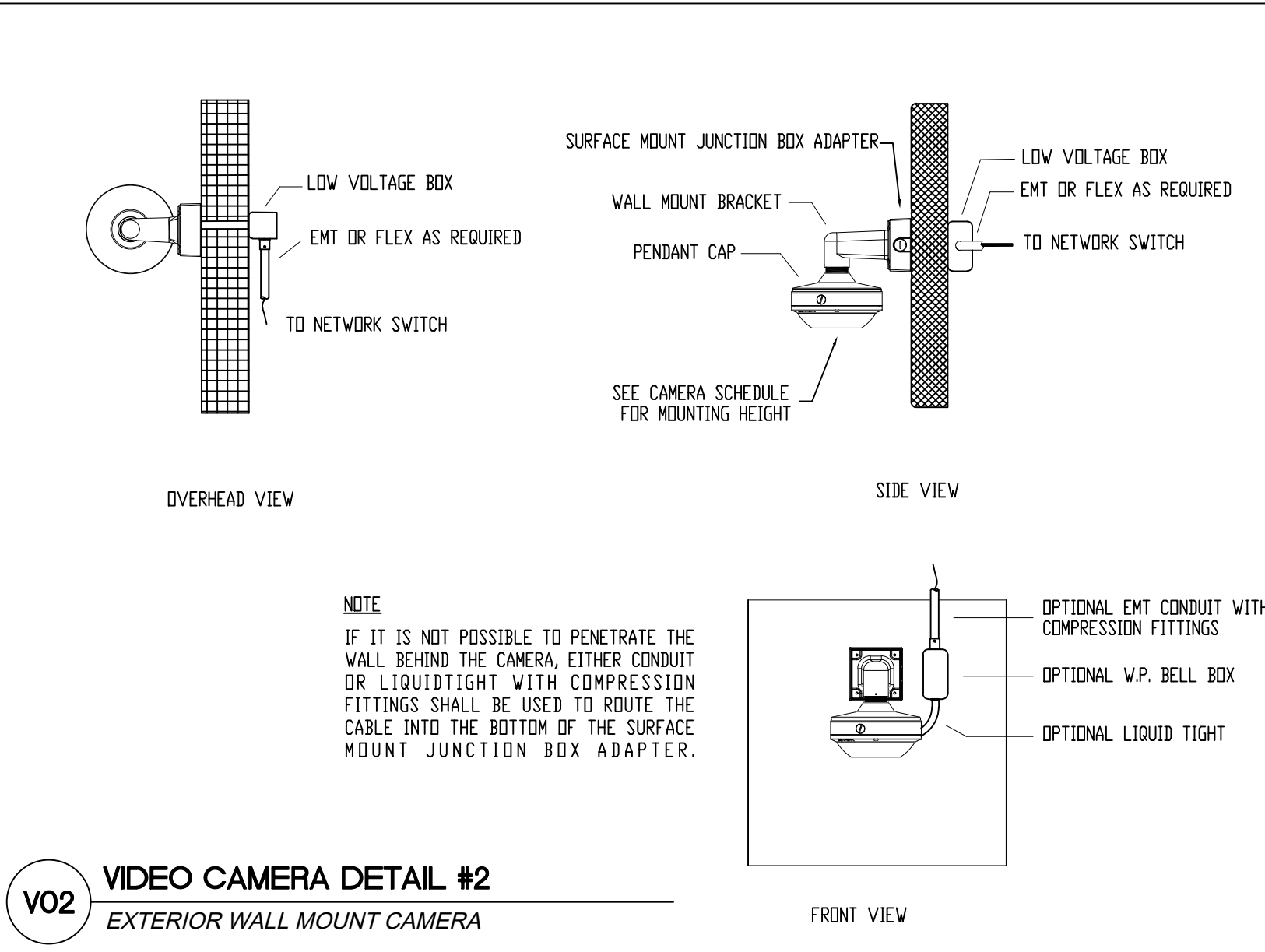


1 COMMUNITY BUILDING ROOF SECURITY PLAN  
NOT TO SCALE

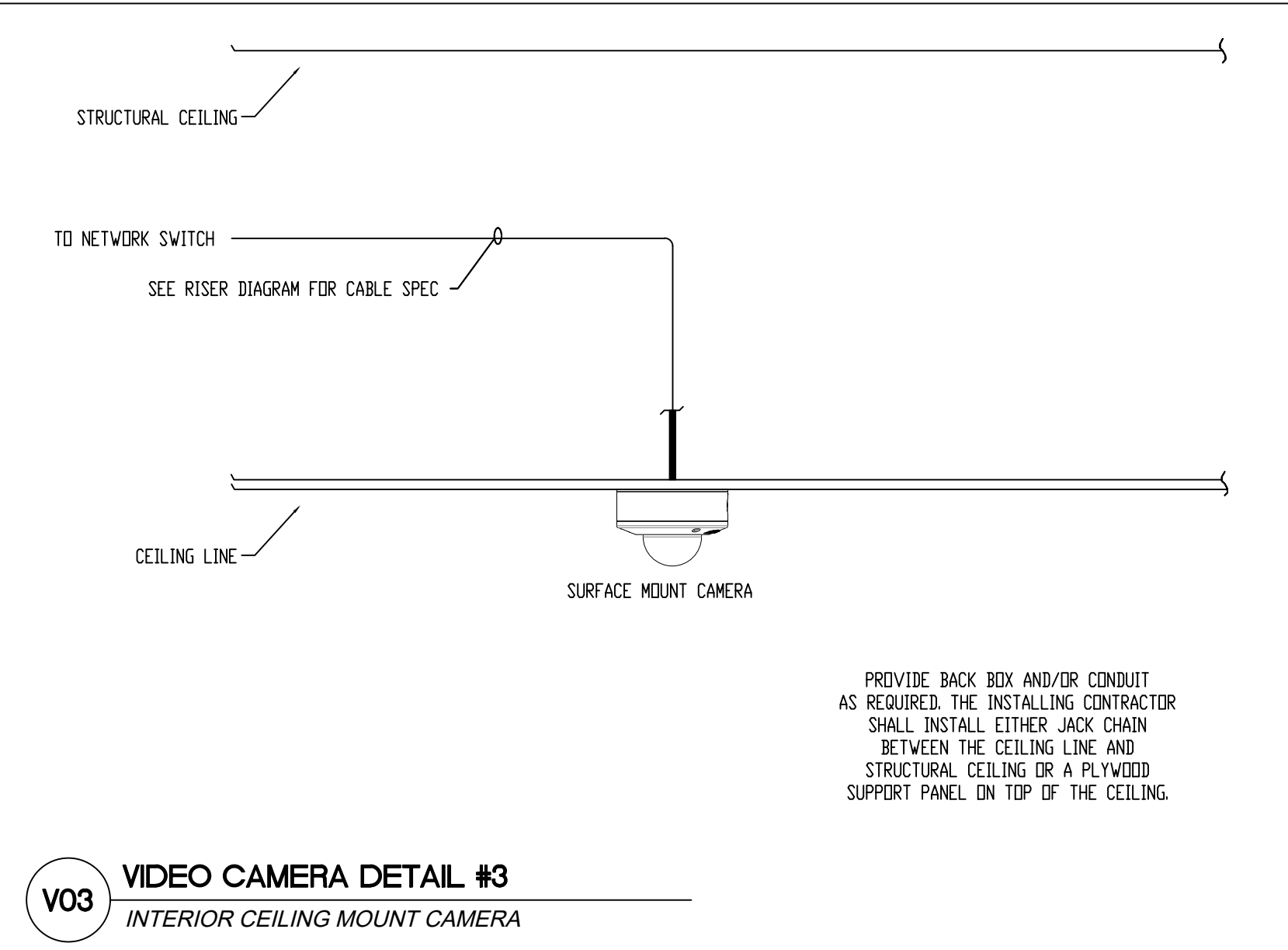




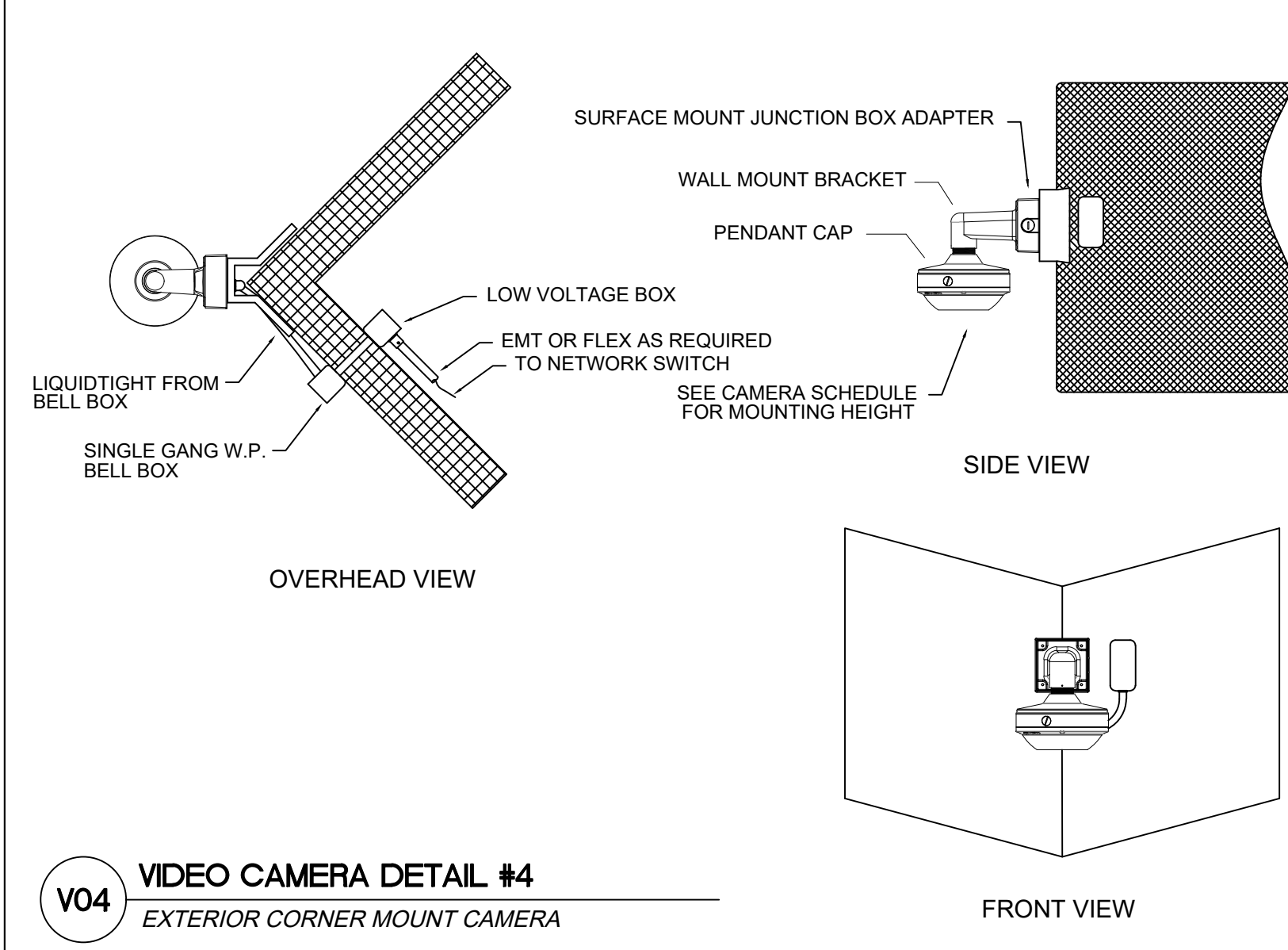
**V01** VIDEO CAMERA DETAIL #1  
SURFACE MOUNT FIXED CAMERA



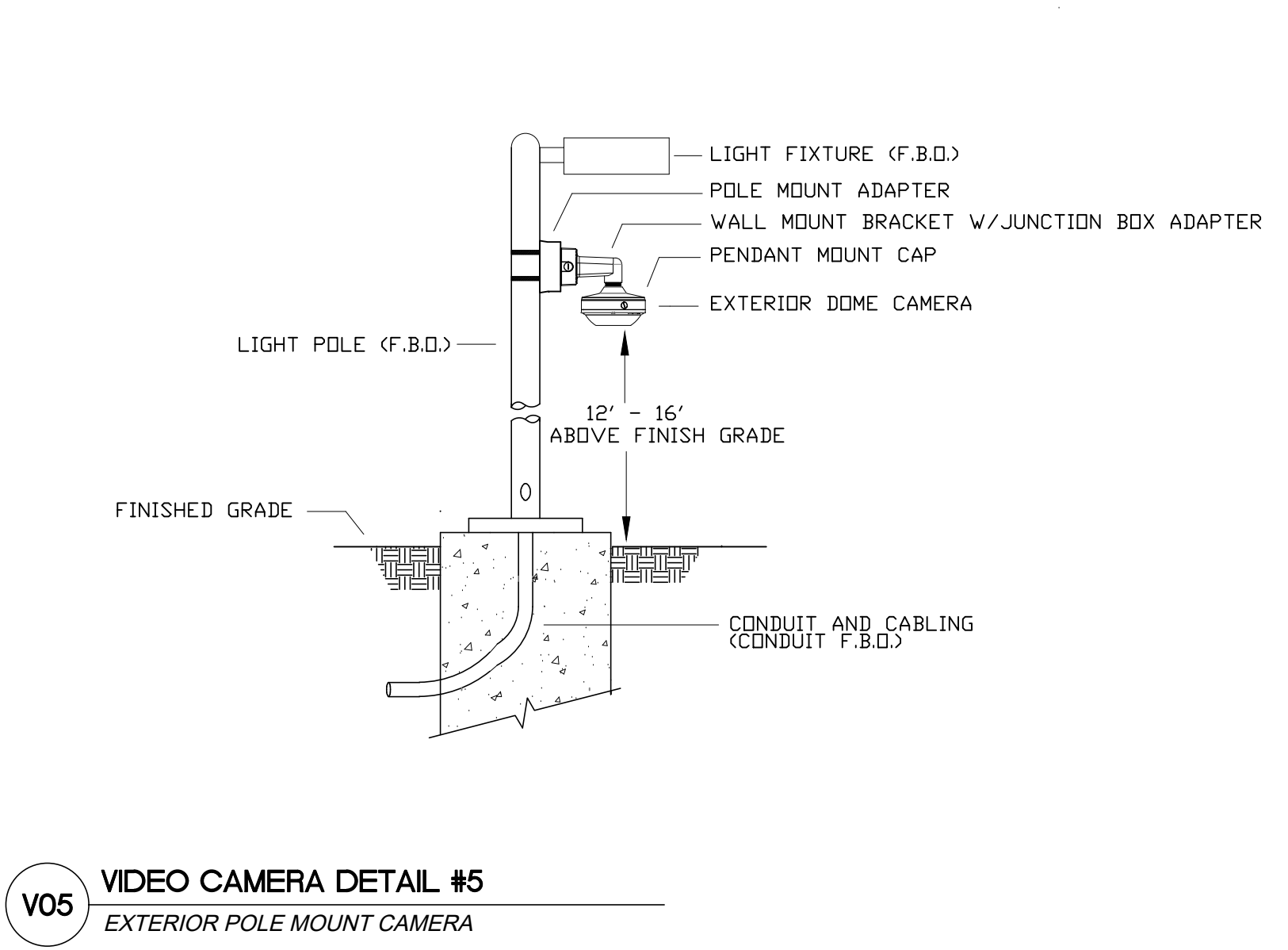
**V02** VIDEO CAMERA DETAIL #2  
EXTERIOR WALL MOUNT CAMERA



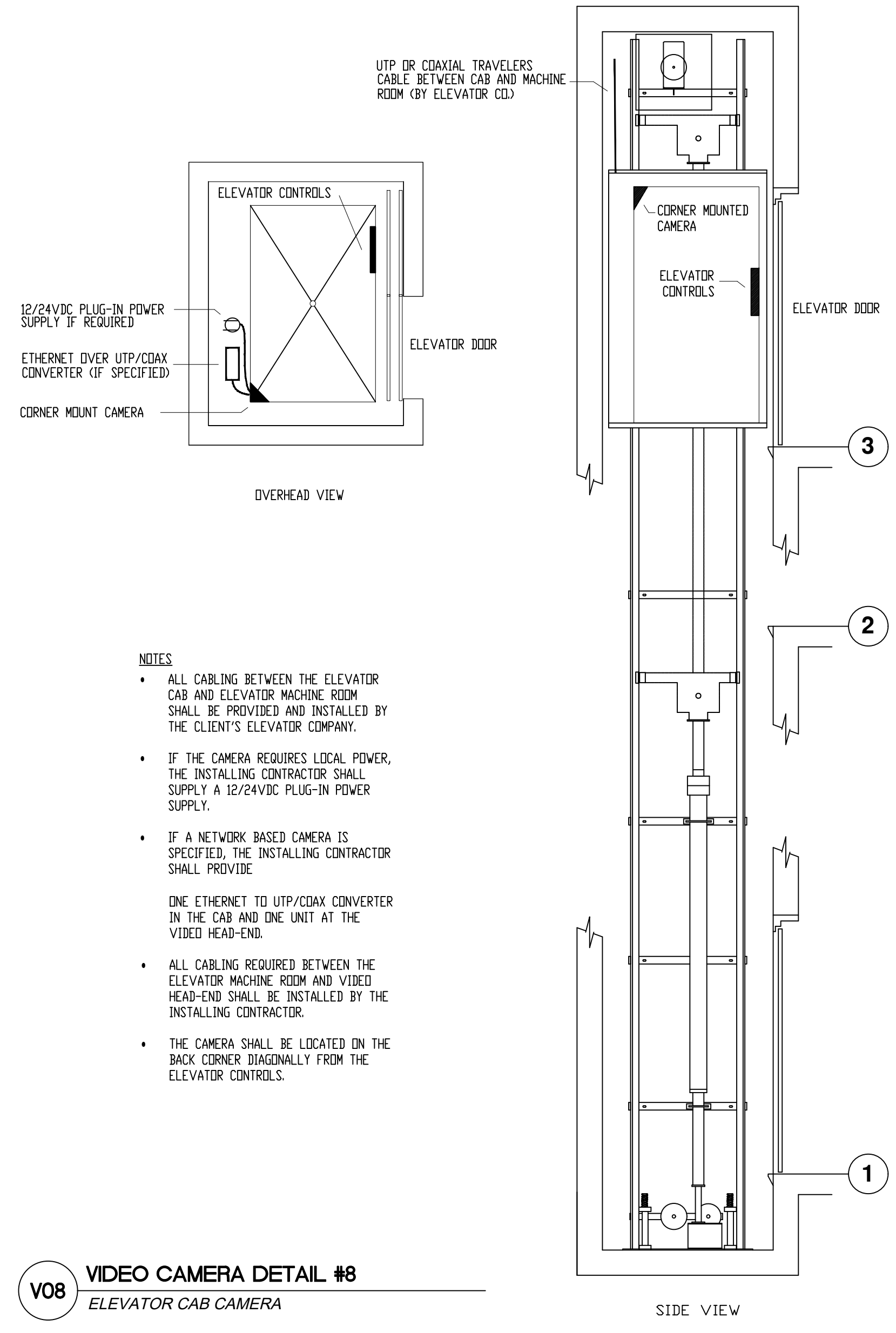
**V03** VIDEO CAMERA DETAIL #3  
INTERIOR CEILING MOUNT CAMERA



**V04** VIDEO CAMERA DETAIL #4  
EXTERIOR CORNER MOUNT CAMERA

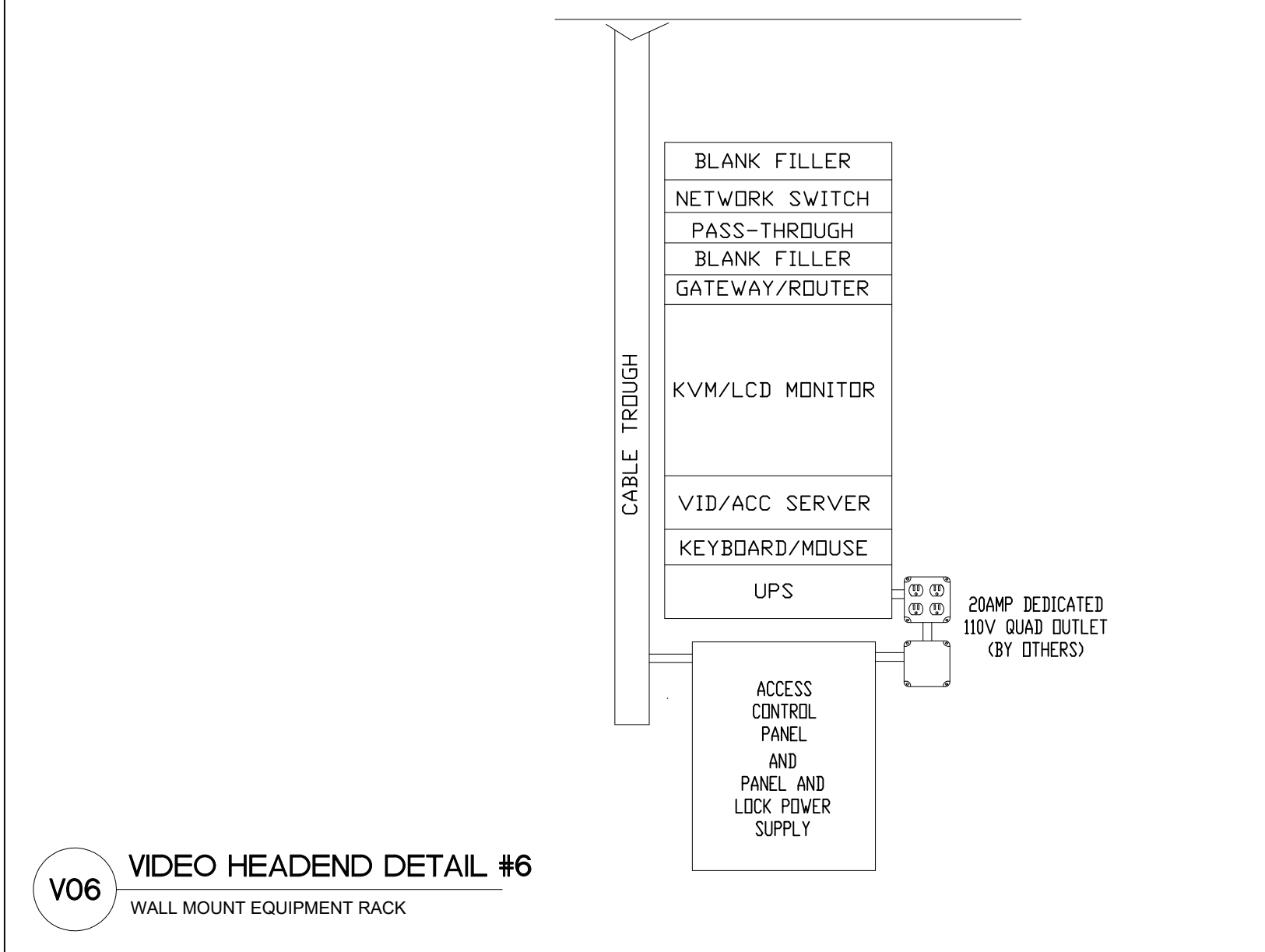


**V05** VIDEO CAMERA DETAIL #5  
EXTERIOR POLE MOUNT CAMERA

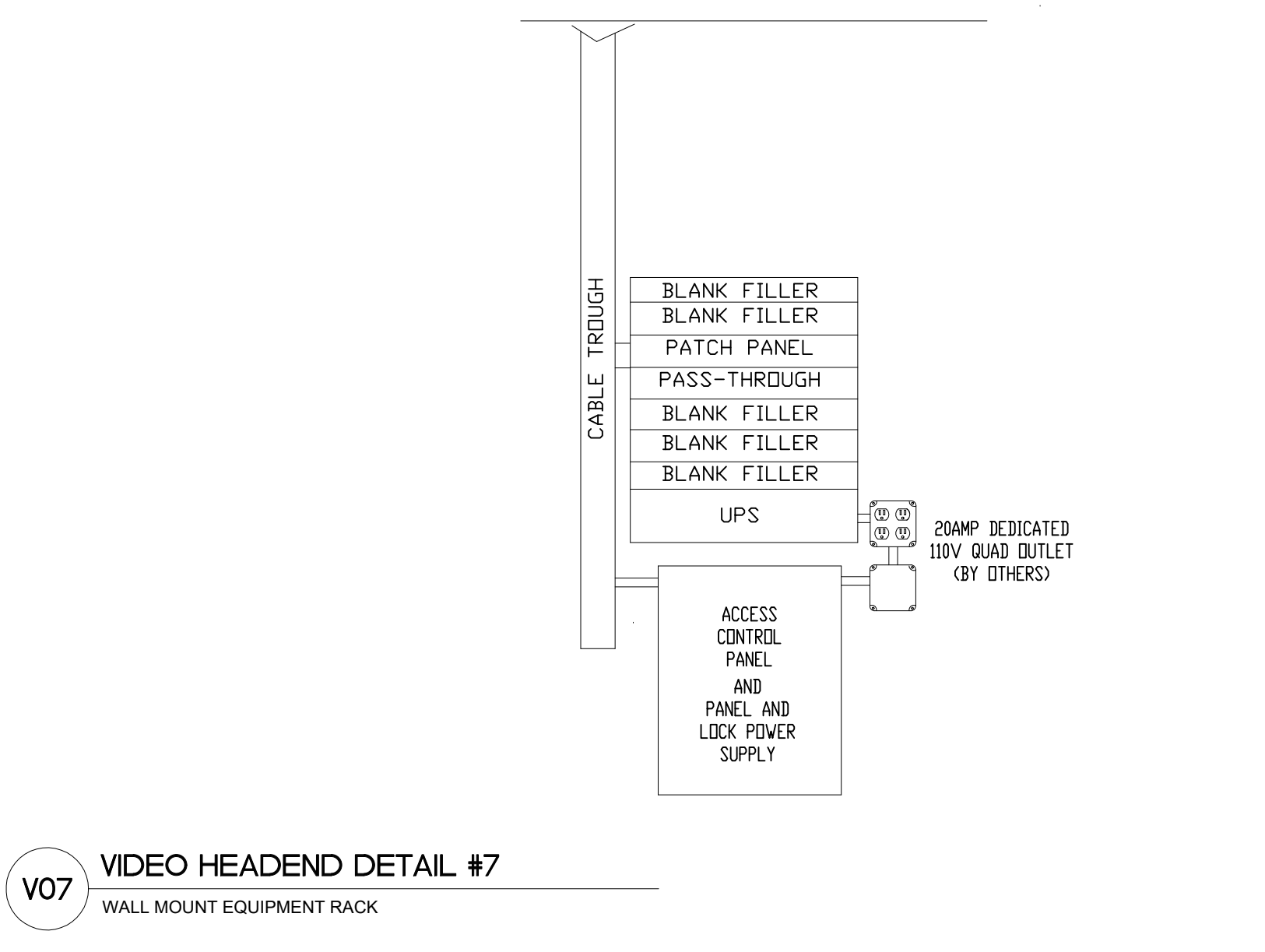


**V08** VIDEO CAMERA DETAIL #8  
ELEVATOR CAB CAMERA

- NOTES**
- ALL CABLING BETWEEN THE ELEVATOR CAB AND ELEVATOR MACHINE ROOM SHALL BE PROVIDED AND INSTALLED BY THE CLIENT'S ELEVATOR COMPANY.
  - IF THE CAMERA REQUIRES LOCAL POWER, THE INSTALLING CONTRACTOR SHALL SUPPLY A 12/24VDC PLUG-IN POWER SUPPLY.
  - IF A NETWORK BASED CAMERA IS SPECIFIED, THE INSTALLING CONTRACTOR SHALL PROVIDE ONE ETHERNET TO UTP/COAX CONVERTER IN THE CAB AND ONE UNIT AT THE VIDEO HEAD-END.
  - ALL CABLING REQUIRED BETWEEN THE ELEVATOR MACHINE ROOM AND VIDEO HEAD-END SHALL BE INSTALLED BY THE INSTALLING CONTRACTOR.
  - THE CAMERA SHALL BE LOCATED ON THE BACK CORNER DIAGONALLY FROM THE ELEVATOR CONTROLS.



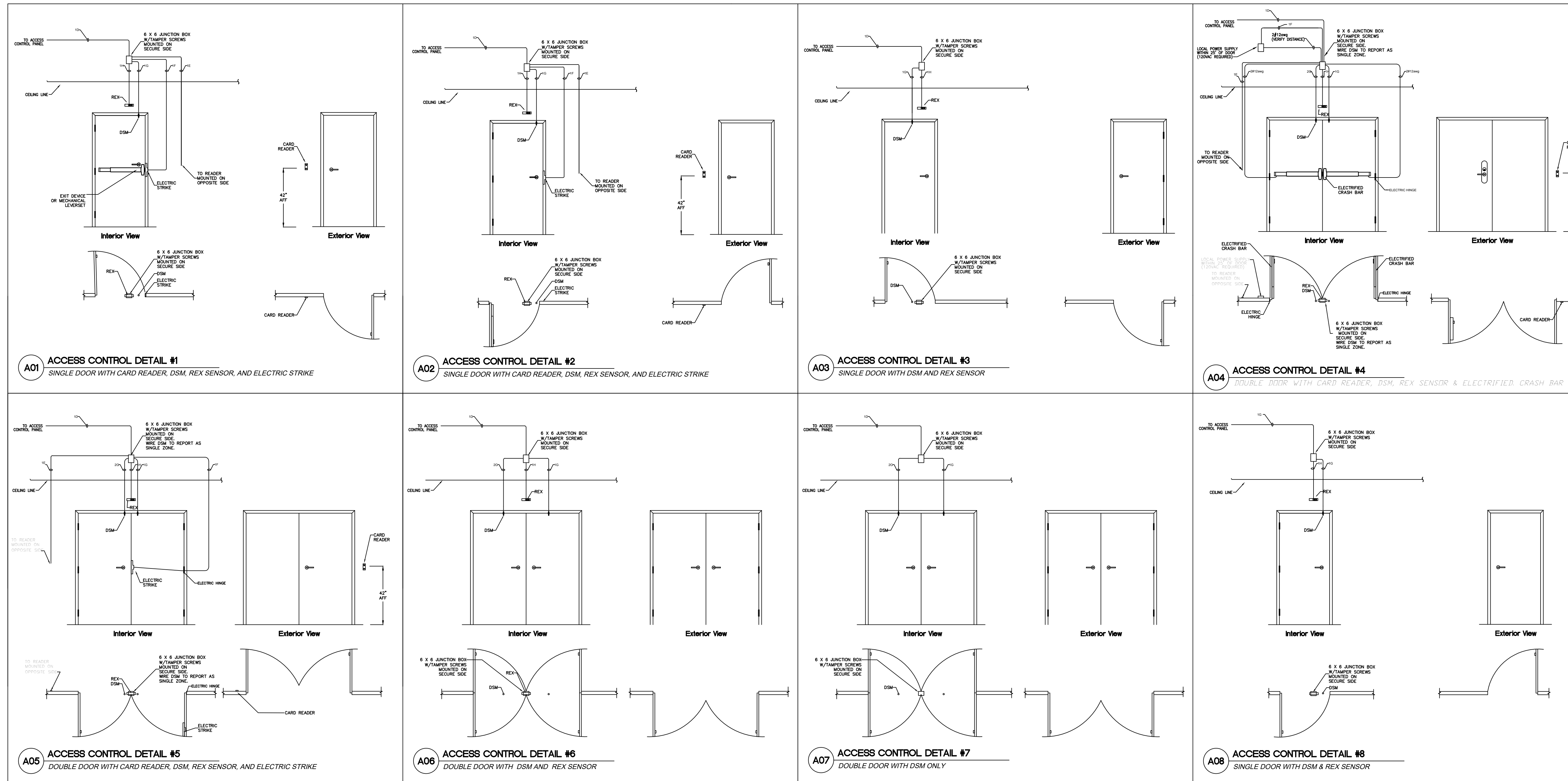
**V06** VIDEO HEADEND DETAIL #6  
WALL MOUNT EQUIPMENT RACK



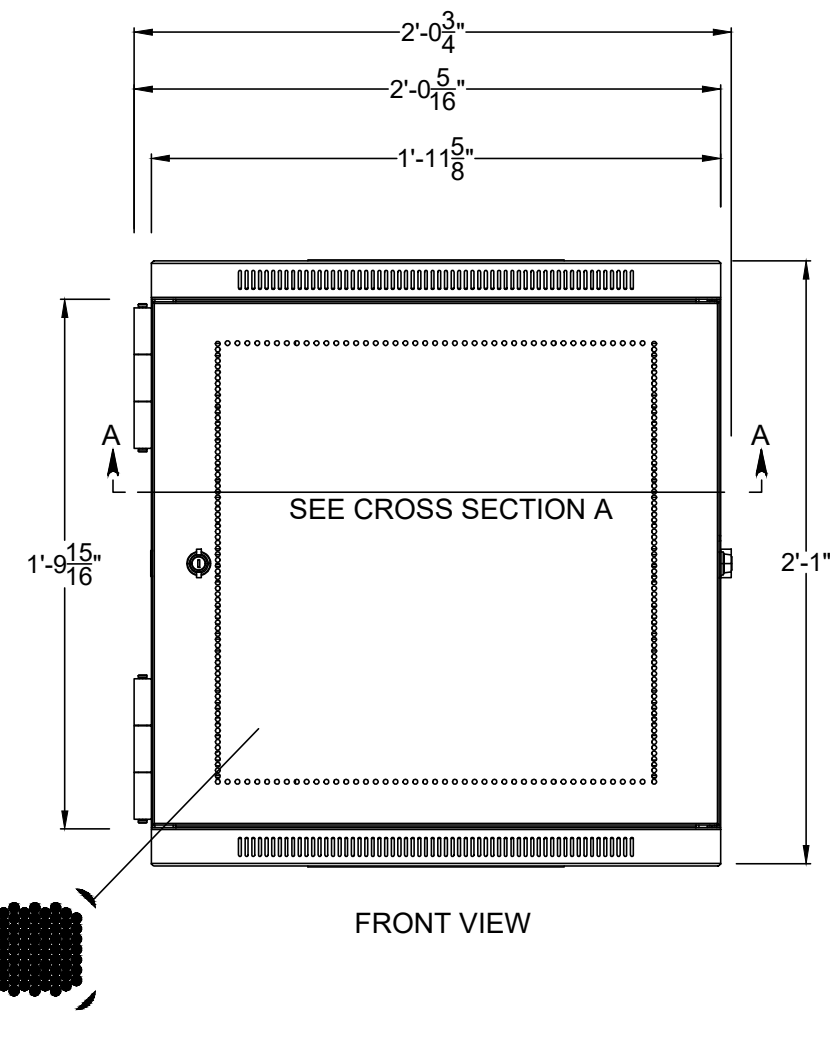
**V07** VIDEO HEADEND DETAIL #7  
WALL MOUNT EQUIPMENT RACK

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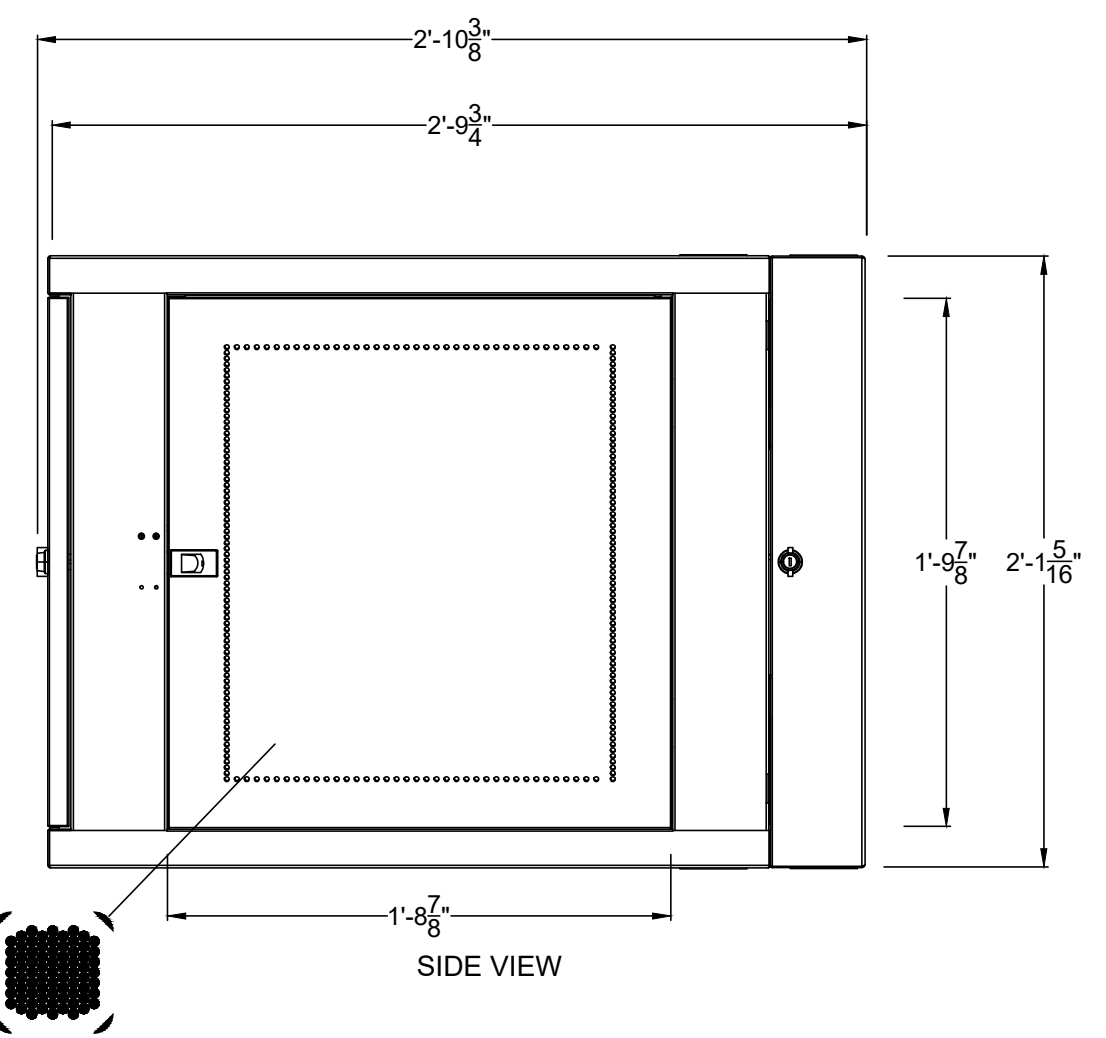
CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021



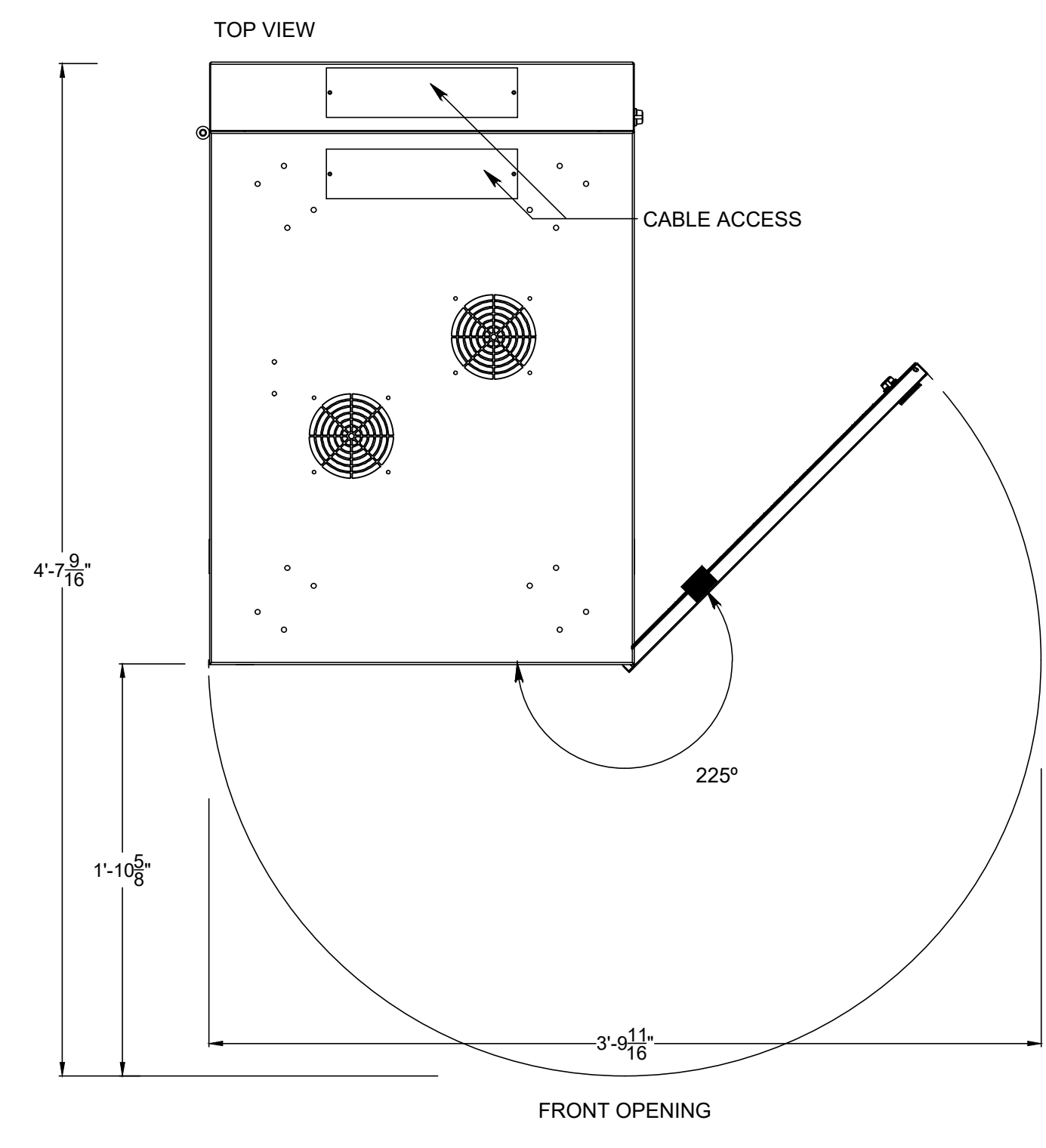
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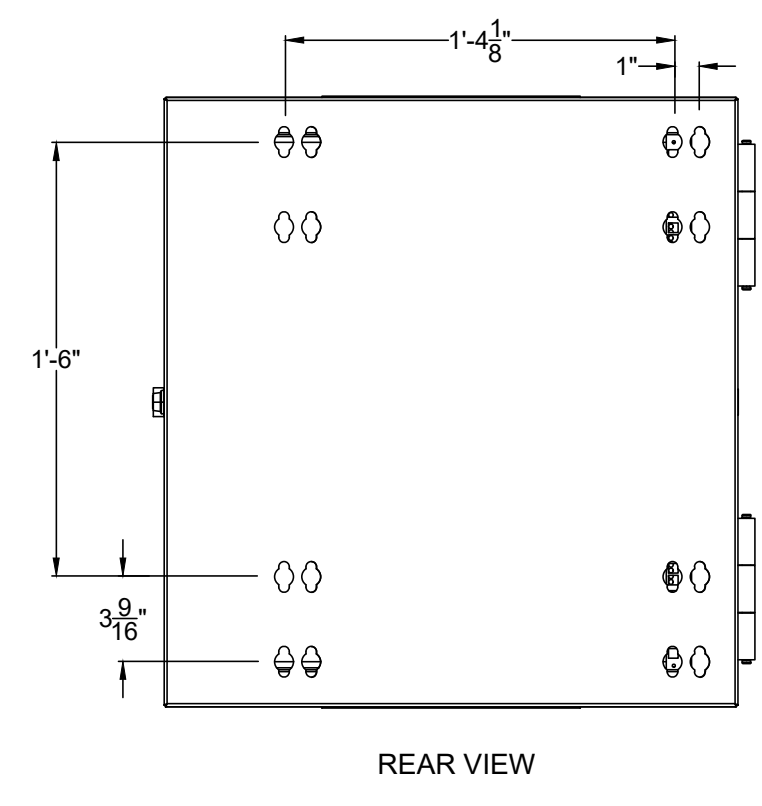
FRONT VIEW



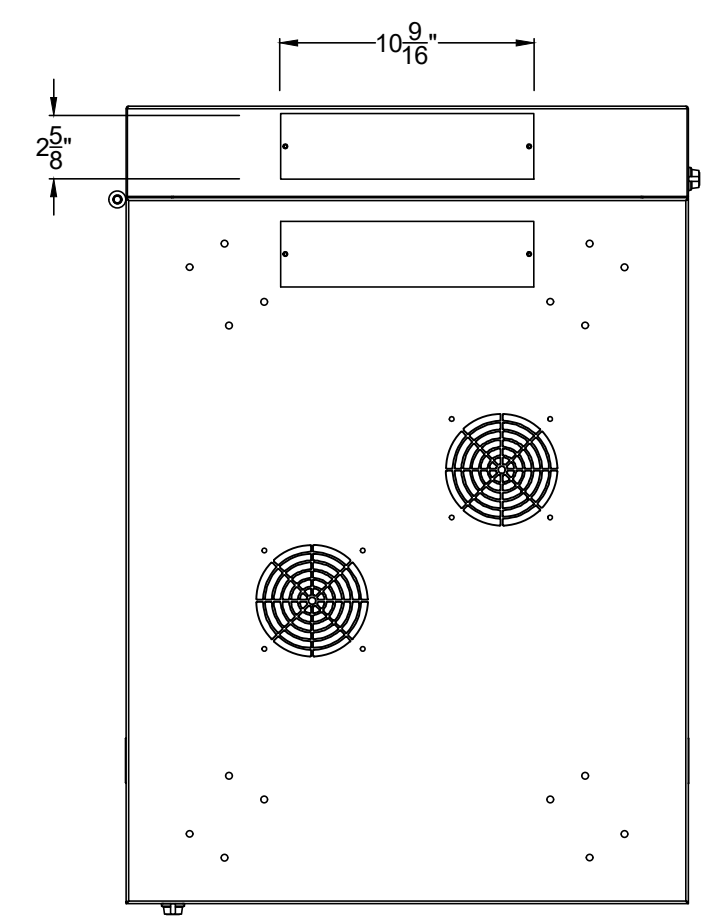
SIDE VIEW



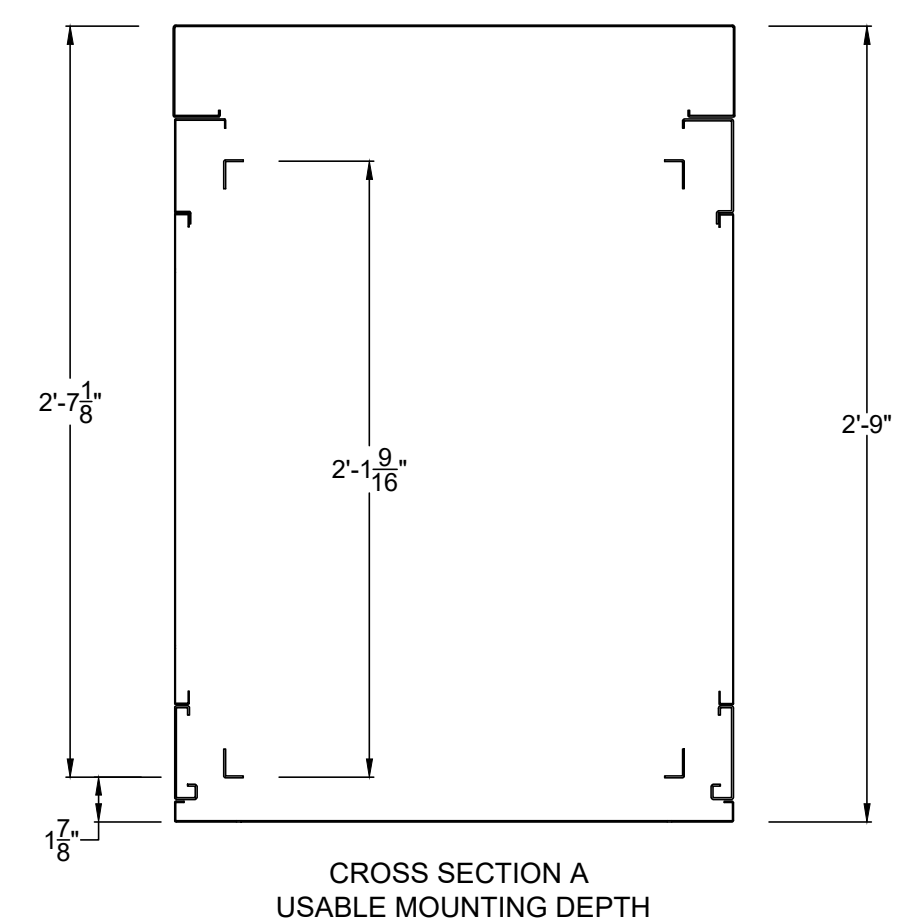
FRONT OPENING



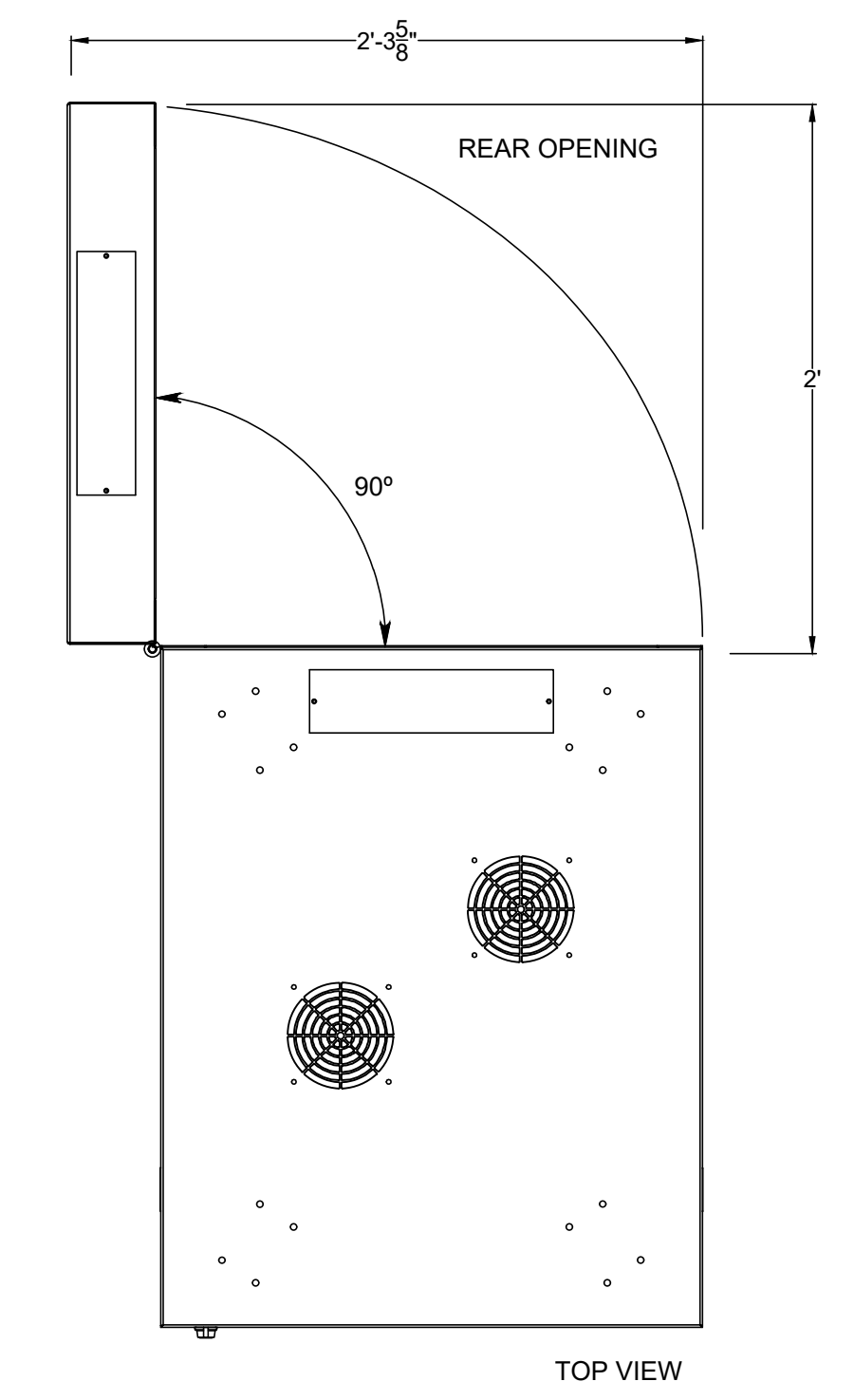
REAR VIEW



TOP/BOTTOM VIEW



CROSS SECTION A  
USABLE MOUNTING DEPTH



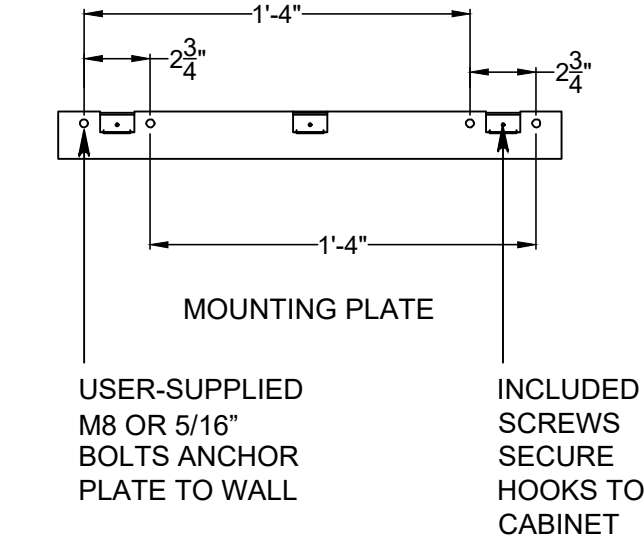
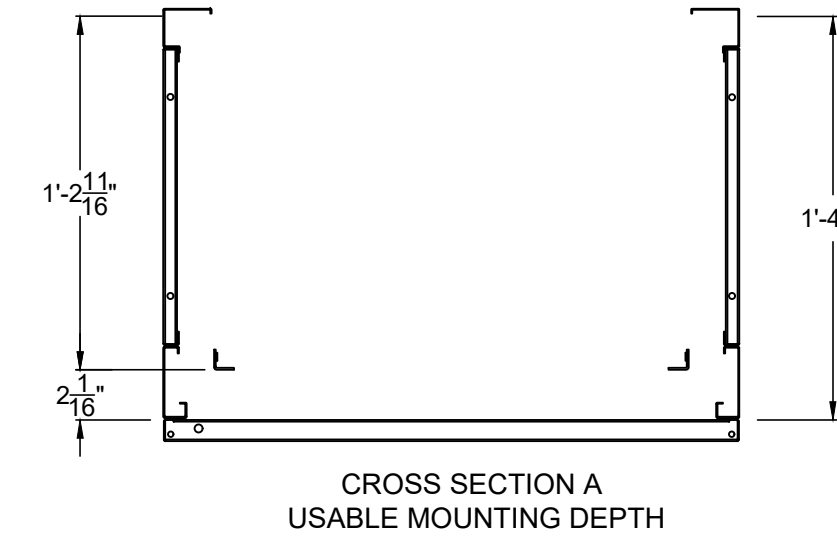
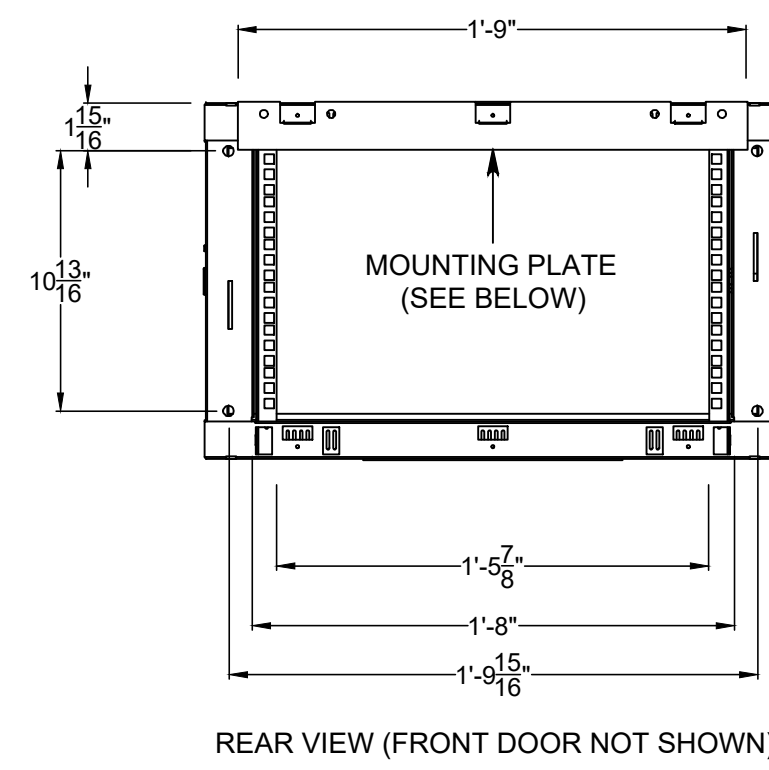
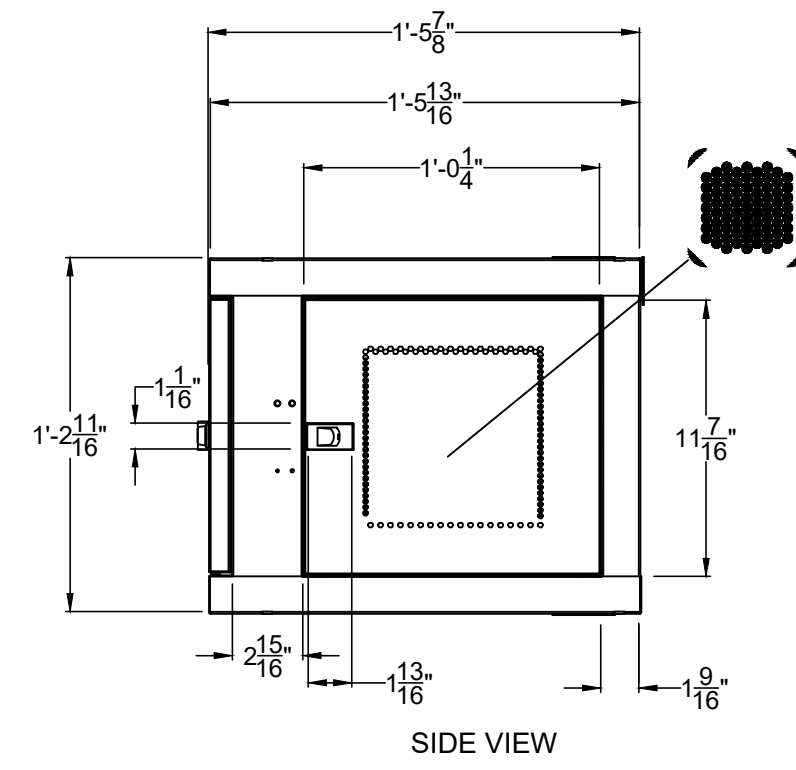
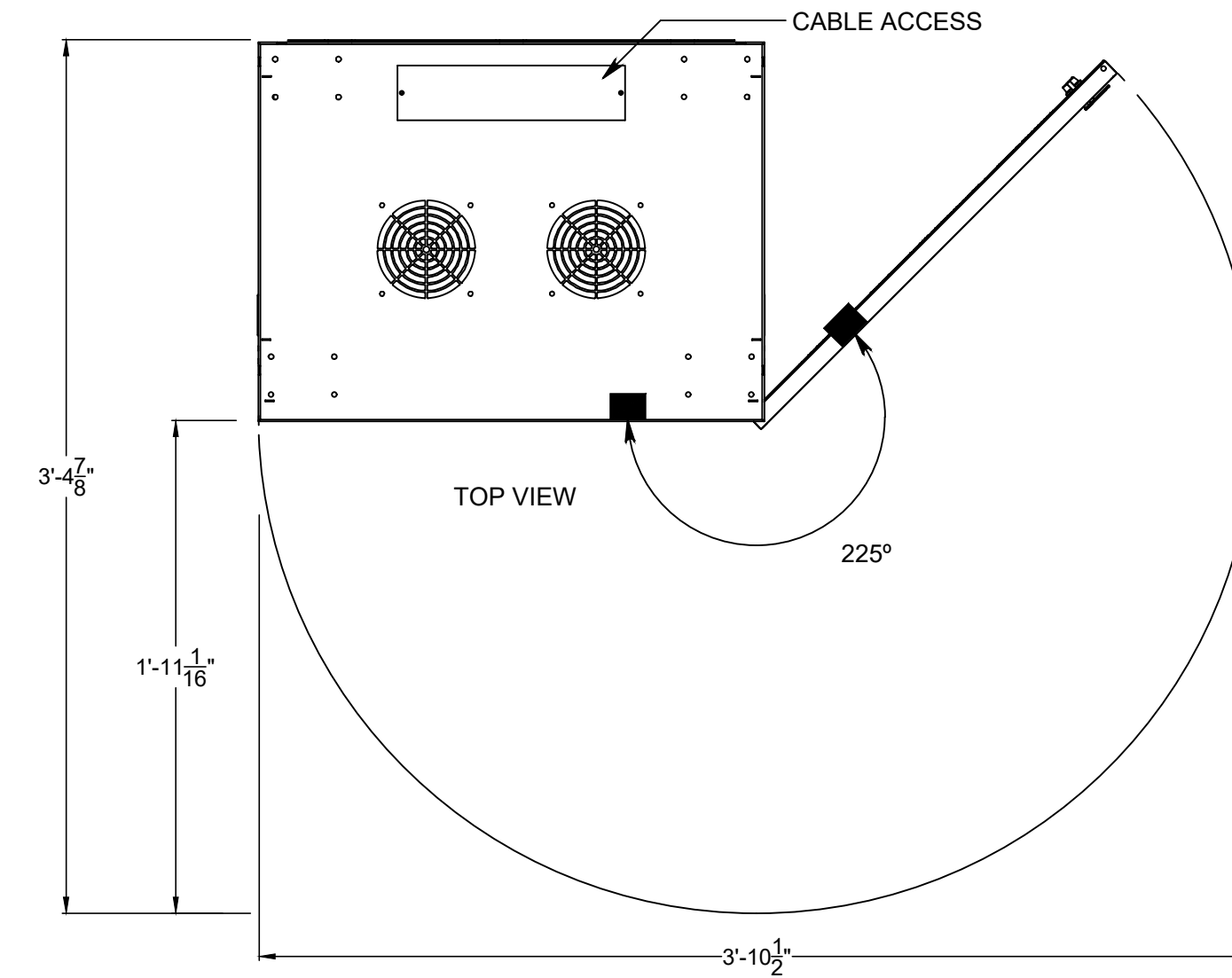
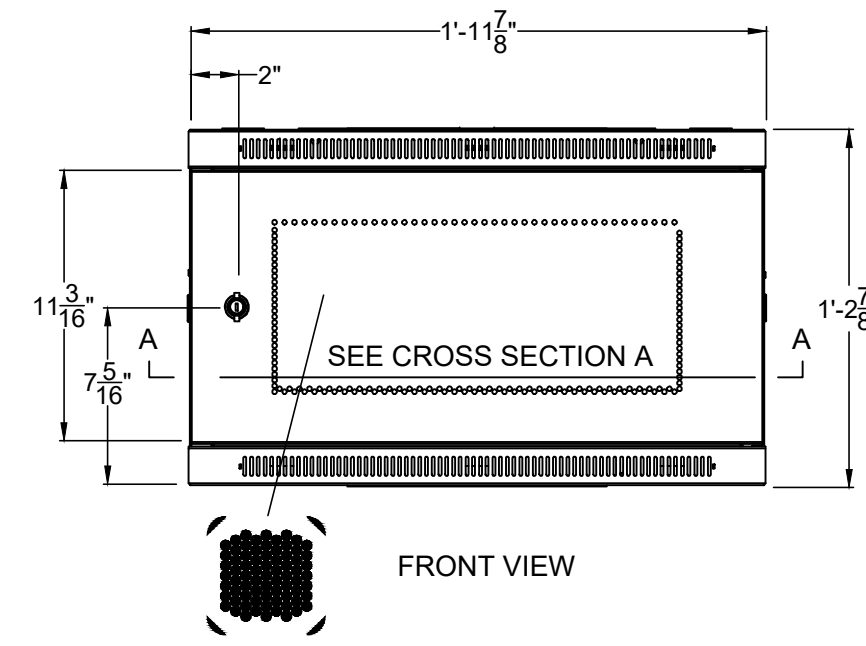
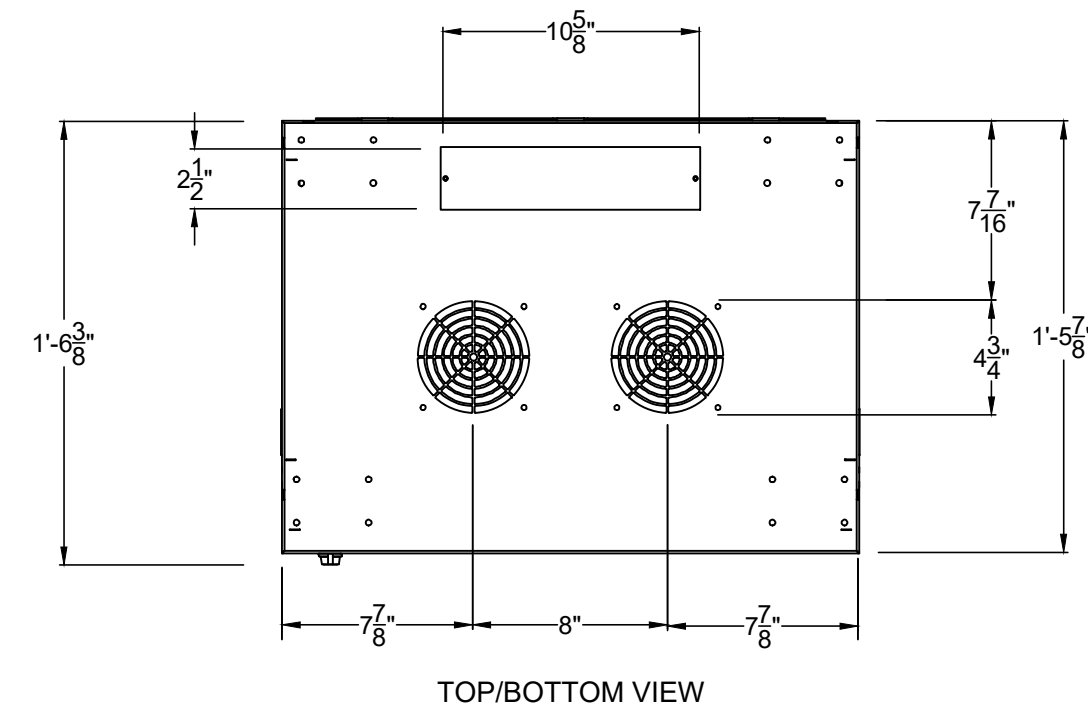
REAR OPENING

TOP VIEW

**1** DETAIL SMARTRACK WALL-MOUNT RACK  
ENCLOSURE CABINET #SRW12US33  
FULL SCALE

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1 DETAIL SMARTRACK WALL-MOUNT RACK  
ENCLOSURE CABINET #SRW6U  
FULL SCALE

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CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

**Ed Wojcik**  
architect, ltd  
One Richmond Square  
Providence, RI 02906  
401-861-7139

Proposed Design for:  
**Woodland Cove**  
**Phase I**  
Buildings E, F, & COMMUNITY BUILDING  
3102 Cranberry Highway  
Wareham, MA 02552

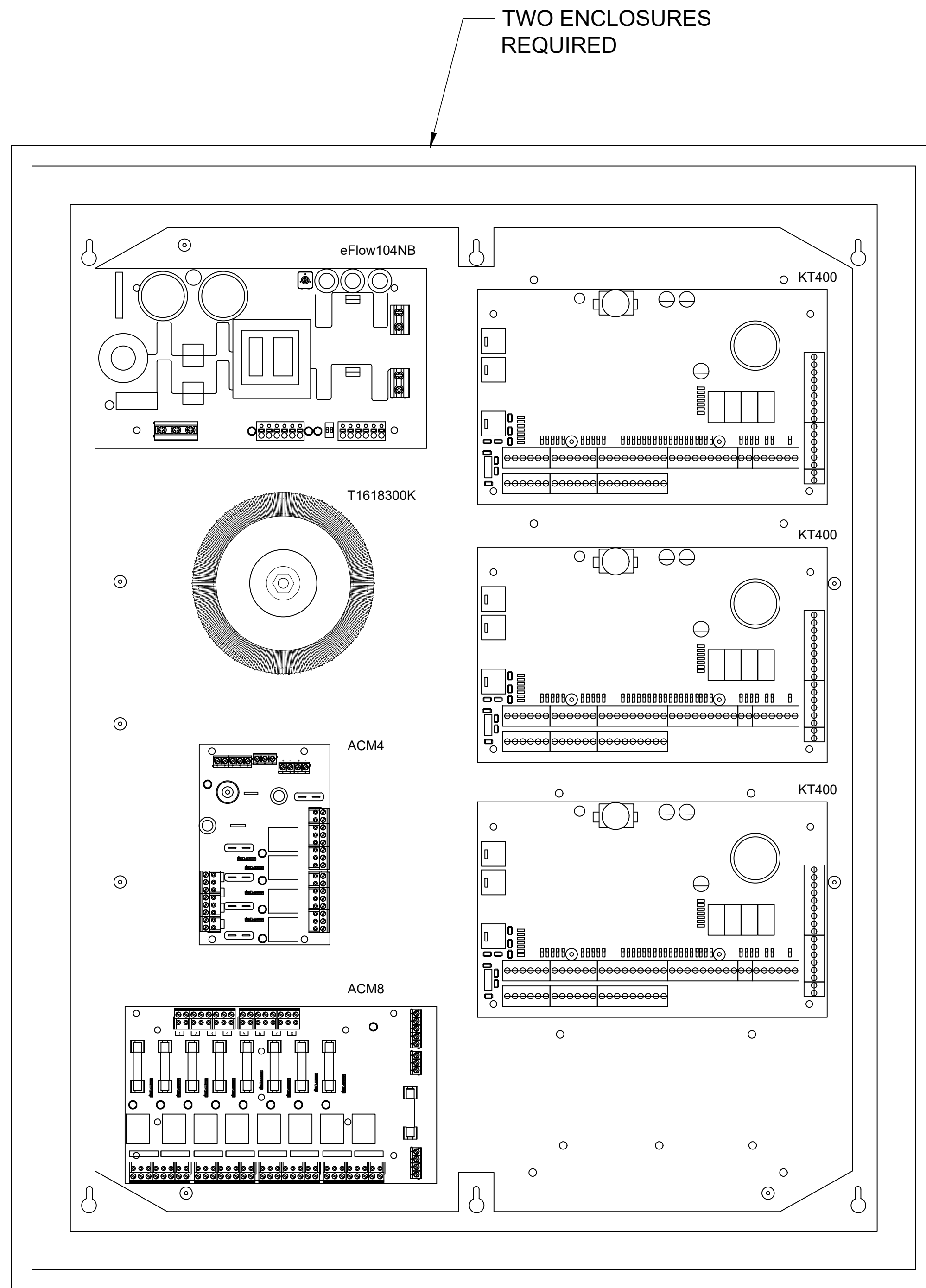
SHEET CONTENTS:

Head End #2  
TrippLite SRW6U  
Wall Rack

PROJECT # 1420

DATE: 9/22/2020  
REVISED DATE:  
1 REVISED: 02/16/2021

**SEC.19**



<b>TROVE™</b>		<b>KANTECH</b>	
TROVE2KH2	Enclosure + Backplane	12-Doors	KT-300, KT-400, KT-MOD-INP16, KT-MOD-OUT16
TKH2	Backplane only		
<i>Trove 2 Series Pre-assembled Kits</i>			
T2KHK3F12	EFLOW6NB, T1618300K, ACM8, ACM4	12-Doors	KT-300, KT-400, KT-MOD-INP16, KT-MOD-OUT16

## T2KHK3F12 (Trove2) 12-Door Access System with Power

- A. The access control enclosure ("enclosure") shall provide the means to integrate access control controller boards and the required power supply equipment, delivered pre-wired, tested, and ready for installation.
- B. Dimensions:
- a) Trove1: 18.00"H x 14.5"W x 4.62"D
  - b) Trove2: 27.25"H x 21.75"W x 6.5"D
  - c) Trove3: 36.12"H x 30.125"W x 7.06"D
- C. Compatibility
- 1. The enclosure shall accommodate access control modules of various manufactures:
    - a) Trove1 CDVI, DMP, HID, LENEL, Mercury, PDK and SALTO  
Trove2 AMAG, Bosch, CDVI, DMP, HID, Honeywell (Win-Pak, Pro-Watch, NetAXS), Kantech, Keyscan, LENEL, Mercury, Paxton, Sielox, Software House, ZKTeco and Customizable Backplane.
    - b) Trove3 CDVI, HID, Honeywell (Win-Pak, Pro-Watch), LENEL, Mercury, Software House and Customizable Backplane
  - 2. The enclosure shall accommodate power supply and sub-assemblies which have been tested and certified to work with the access control modules listed above.
- D. Electrical
- 1. The primary power input to the enclosure shall be 115 VAC.
- E. Mechanical
- 1. The enclosure shall be 16 AWG sheet metal, painted grey.
  - 2. The enclosure shall have knockouts for <1.5"><2"> conduit.  
Trove 1 has 1.5" knockouts, and Trove2 has 2" knockouts.
  - 3. The enclosure shall have an integral cam lock and tamper switch.
  - 4. The enclosure shall have provision for two 12 VDC/7 AH batteries.  
Battery capacity pertains to Trove1, Trove 2 and Trove3 respectively.

**VIDEO SURVEILLANCE HEAD-END EQUIPMENT SCHEDULE**

Device ID	Bid Option	Bldg	Level	Location	Video/Access Server	Access Control Software	Video Licenses	Network Gateway	Network Switch	Decoder for CATV	Wall Cabinet	Patch Panel	UPS Power Supply	Video Monitor/KVM Console	Mounting Detail#	110vac Power	Remote Client Network	NOTES:
H1	Base	E	1st	Mechanical Room	n/a	n/a	n/a	n/a	Ubiquiti/US-24-250W IP Address:	Hanwha/SPD-150 IP Address:	Tripplite/SRW6U	Monoprice/7255	Tripplite/SMART1500LCD	n/a	V07	110VAC power supplied by the general contractor	n/a	This equipment shall utilize a 57GHz point-to-point Ubiquiti wireless radio to extend the security network to the club house network switch
H2	Base	F	1st	Mechanical Room	n/a	n/a	n/a	n/a	Ubiquiti/US-24-250W IP Address:	Hanwha/SPD-150 IP Address:	Tripplite/SRW6U	Monoprice/7255	Tripplite/SMART1500LCD	n/a	V07	110VAC power supplied by the general contractor	n/a	This equipment shall utilize a 57GHz point-to-point Ubiquiti wireless radio to extend the security network to the club house network switch
H3	Base	Club House	1st	Storage Closet	Exacqvision A-Series server. Server shall be sized for 30-days of storage retention based on full resolution, H.264/H.265, 15fps, RAID6	Kantech/E-COR-V8	ExacQvision/EVIP-01 (Qty. 26)	Ubiquiti/USG IP Adress: 192.168.1.1	Ubiquiti/US-16-150W IP Address: 192.168.1.3	n/a	Tripplite/SRW12US33	Monoprice/7255	Tripplite/SMART1500LCD	Tripplite/B021-000-19	V06	110VAC power supplied by the general contractor	Network connectivity with static IP address provided by the general contractor	This equipment shall support all video surveillance system cameras and integrate seamlessly with the Kantech access control system. The installing contractor shall import building floor plans and generate maps with all camera locations and card reader locations identified. The security integrator shall provide two-hundred and fifty (250) HID iClass proximity Keytags for use with the access control system.
	Alt1	Club House	1st	Storage Closet	n/a	n/a	ExacQvision/EVIP-01 (Qty. 25)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	

**ACCESS CONTROL PANEL SCHEDULE**

Device ID	Bid Option	Bldg	Level	Location	Access Control Module	Expansion Modules	IP Address	Panel/Lock Power Supply	Battery Back-up	Cable Type	Mounting Detail#	Termination Point	110vac Power	Notes
H1	Base	E	1st	Mechanical Room	Kantech/KT-400PCB	n/a		Altronix/T2KHK3F12	Kantech/KT-BATT-12 (Qty. 2)	A	V07	H1	The general contractor shall provide an 110vac "hardwired" connection to the panel power supply	The new panel shall be connected to the network switch located in the "H1" video equipment rack and communicate with the Kantech server located in the Club House rack.
H2	Base	F	1st	Mechanical Room	Kantech/KT-400PCB	n/a		Altronix/T2KHK3F12	Kantech/KT-BATT-12 (Qty. 2)	A	V07	H2	The general contractor shall provide an 110vac "hardwired" connection to the panel power supply	The new panel shall be connected to the network switch located in the "H2" video equipment rack and communicate with the Kantech server located in the Club House rack.
H3	Base	Club House	1st	Storage Room	Kantech/KT-400PCB (Qty. 2)	n/a		Altronix/T2KHK3F12	Kantech/KT-BATT-12 (Qty. 2)	A	V06	H3	The general contractor shall provide an 110vac "hardwired" connection to the panel power supply	The new panel shall be connected to the network switch located in the "H3" video equipment rack and communicate with the Kantech server located in the Club House rack.

**MANAGED WIRELESS NETWORK INFRASTRUCTURE**

Device ID	Bid Option	Bldg	Level	Location	IP Address	Wireless Radio	Throughput Expansion	Mounting Bracket	Mount Type	Cabling	Detail#	Max Throughput	Frequency	PoE 802.3af	Max Wireless Distance	Mounting Height	Headend Termination Location	Line of sight communication with radio
L1.A	Base	Club House	1st	Right Side		Ubiquiti/UBB-US	n/a	Ubiquiti/UB-AM	Wall	C	V05	1000Mbps	57-64GHz	Y	800-1000 ft	Centered between structural and finished ceiling	H3	Communicate with Radio L1.B
L1.B	Base	F	1st	Rear Left Corner		Included with L1.A Kit	n/a	Ubiquiti/UB-AM	Wall	C	V05	1800Mbps	57-64GHz	Y	800-1000 ft	Centered between structural and finished ceiling	H2	Communicate with Radio L1.A
L2.A	Base	Club House	1st	Rear Right Corner		Ubiquiti/UBB-US	n/a	Ubiquiti/UB-AM	Wall	C	V05	1800Mbps	57-64GHz	Y	800-1000 ft	Centered between structural and finished ceiling	H3	Communicate with Radio L2.B
L2.B	Base	E	1st	Rear Left Side		Included with L2.A Kit	n/a	Ubiquiti/UB-AM	Wall	C	V05	1000Mbps	57-64GHz	Y	800-1000 ft	Centered between structural and finished ceiling	H1	Communicate with Radio L2.A
L3.A	Base	Club House	1st	Rear Center Right Corner		Provided with Phase 2 - Install cabling only	n/a	Ubiquiti/UB-AM	Wall	C	V05	1000Mbps	57-64GHz	Y	800-1000 ft	Centered between structural and finished ceiling	H3	
L4.A	Base	Club House	1st	Left Side		Provided with Phase 2 - Install cabling only	n/a	Ubiquiti/UB-AM	Wall	C	V05	1800Mbps	57-64GHz	Y	800-1000 ft	Centered between structural and finished ceiling	H3	

**INTRUSION/SECURITY ALARM SCHEDULE**

Device	Bid Option	Bldg	Level	Location	Keypad/Control Panel	Communicator	Door Sensor	Motion Sensor	Panic Alarm	Detail#	Cable Type	Notes:
K1	BASE	Club House	1	Management Office	Honeywell/LCP-500L	Honeywell/LYRIC-CDMA (Verizon Cell)	n/a	n/a	n/a	n/a	H	Security Integrator shall include a one-year central station monitoring contract. Plug-in power supply shall be located within the management office storage closet closet.
K2	BASE	Club House	1	Maintenance Shop	Honeywell/LKP500-EN	n/a	n/a	n/a	n/a	n/a	n/a	Plug-in power supply shall be located within the management office storage closet closet.
A1	BASE	Club House	1	Leasing Office Entrance	n/a	n/a	Honeywell/SIXCT	n/a	n/a	n/a	n/a	Unit is wireless
A2	BASE	Club House	1	Maintenance Shop Exterior Door	n/a	n/a	Honeywell/SIXCT (Qty. 2)	n/a	n/a	n/a	n/a	Unit is wireless
A3	BASE	Club House	1	Package Room Door to Office	n/a	n/a	Honeywell/SIXCT	n/a	n/a	n/a	n/a	Units are wireless
M1	BASE	Club House	1	Open Office	n/a	n/a	Honeywell/SIXPIR	n/a	n/a	n/a	n/a	Unit is wireless
M2	BASE	Club House	1	Leasing Office #1	n/a	n/a	Honeywell/SIXPIR	n/a	n/a	n/a	n/a	Unit is wireless
M3	BASE	Club House	1	Leasing Office #2	n/a	n/a	Honeywell/SIXPIR	n/a	n/a	n/a	n/a	Unit is wireless
M4	BASE	Club House	1	Copy Room	n/a	n/a	Honeywell/SIXPIR	n/a	n/a	n/a	n/a	Unit is wireless
M5	BASE	Club House	1	Maintenance Shop	n/a	n/a	Honeywell/SIXPIR	n/a	n/a	n/a	n/a	Unit is wireless

**ACCESS CONTROL DOOR SCHEDULE**

Device ID	Bid Option	Bldg	Level	Arch Door Tag	Location	Card Reader	Door Status Contact	Request to Exit Sensor	Entry Intercom Panel	Electric Locking Hardware	Door Set#	Detail#	Cable Type	Headend Termination	Notes:
R1	Base	F	1		Front Entrance Outer Vestubule Door	Allegion/ MT15	Bosch/ ISN-CSD70-W	Kantech/ T.REX-XL-NL	Kantech/ KTES-US	Furnished by the door hardware contractor. Refer to Finished Hardware Section 08700 and door schedule/types drawings within the construction drawing set for details	TBD	A01	2A,D,2F	H1	This door shall be integrated with the video from camera "C1" & "C14". Alerts such as forced door, door propped and lost/stolen card shall be programmed to notify management and link the video to the access control event log.
R2	ALT1	F	1		Mail Room	Allegion/ MT15	Bosch/ ISN-CSD70-W	Kantech/ T.REX-XL-NL	n/a	Furnished by the door hardware contractor. Refer to Finished Hardware Section 08700 and door schedule/types drawings within the construction drawing set for details	TBD	A02	D	H1	This door shall be integrated with the video from camera "C15". Alerts such as forced door, door propped and lost/stolen card shall be programmed to notify management and link the video to the access control event log.
D1	Base	F	1		Stairwell Exit Door	n/a	Bosch/ ISN-CMET-200AR	Kantech/ T.REX-XL-NL	n/a	Furnished by the door hardware contractor. Refer to Finished Hardware Section 08700 and door schedule/types drawings within the construction drawing set for details	TBD	A03	D	H1	This door shall be integrated with the video from cameras "C9". Alerts such as forced door, door propped and lost/stolen card shall be programmed to notify management and link the video to the access control event log.
R3	ALT1	F	1		Laundry Room	Allegion/ MT15	Bosch/ ISN-CSD70-W	Kantech/ T.REX-XL-NL	n/a	Furnished by the door hardware contractor. Refer to Finished Hardware Section 08700 and door schedule/types drawings within the construction drawing set for details	TBD	A02	D	H1	This door shall be integrated with the video from camera "C10". Alerts such as forced door, door propped and lost/stolen card shall be programmed to notify management and link the video to the access control event log.
R4	Base	E	1		Front Entrance Inner Vestubule Door	Allegion/ MT15	Bosch/ ISN-CSD70-W	Kantech/ T.REX-XL-NL	Kantech/ KTES-US	Furnished by the door hardware contractor. Refer to Finished Hardware Section 08700 and door schedule/types drawings within the construction drawing set for details	TBD	A01	2A,D,2F	H2	This door shall be integrated with the video from camera "C30". Alerts such as forced door, door propped and lost/stolen card shall be programmed to notify management and link the video to the access control event log.
R5	ALT1	E	1		Mail Room	Allegion/ MT15	Bosch/ ISN-CSD70-W	Kantech/ T.REX-XL-NL	n/a	Furnished by the door hardware contractor. Refer to Finished Hardware Section 08700 and door schedule/types drawings within the construction drawing set for details	TBD	A02	D	H2	This door shall be integrated with the video from camera "C31". Alerts such as forced door, door propped and lost/stolen card shall be programmed to notify management and link the video to the access control event log.
D2	Base	E	1		Stairwell Exit Door	n/a	Bosch/ ISN-CMET-200AR	Kantech/ T.REX-XL-NL	n/a	Furnished by the door hardware contractor. Refer to Finished Hardware Section 08700 and door schedule/types drawings within the construction drawing set for details	TBD	A03	D	H2	This door shall be integrated with the video from cameras "C25". Alerts such as forced door, door propped and lost/stolen card shall be programmed to notify management and link the video to the access control event log.
R6	ALT1	E	1		Laundry Room	Allegion/ MT15	Bosch/ ISN-CSD70-W	Kantech/ T.REX-XL-NL	n/a	Furnished by the door hardware contractor. Refer to Finished Hardware Section 08700 and door schedule/types drawings within the construction drawing set for details	TBD	A02	D	H2	This door shall be integrated with the video from camera "C26". Alerts such as forced door, door propped and lost/stolen card shall be programmed to notify management and link the video to the access control event log.
R7	Base	Club House	1		Playground Entrance	Allegion/ MT15	Bosch/ ISN-CSD70-W	Kantech/ T.REX-XL-NL	n/a	Furnished by the door hardware contractor. Refer to Finished Hardware Section 08700 and door schedule/types drawings within the construction drawing set for details	TBD	A01	D	H3	This door shall be integrated with the video from camera "C48". Alerts such as forced door, door propped and lost/stolen card shall be programmed to notify management and link the video to the access control event log.
R8	Base	Club House	1		Community Single Door Entrance	Allegion/ MT15	Bosch/ ISN-CSD70-W	Kantech/ T.REX-XL-NL	n/a	Furnished by the door hardware contractor. Refer to Finished Hardware Section 08700 and door schedule/types drawings within the construction drawing set for details	TBD	A01	D	H3	This door shall be integrated with the video from camera "C49". Alerts such as forced door, door propped and lost/stolen card shall be programmed to notify management and link the video to the access control event log.
R9	Base	Club House	1		Fitness Room	Allegion/ MT15	Bosch/ ISN-CSD70-W	Kantech/ T.REX-XL-NL	n/a	Furnished by the door hardware contractor. Refer to Finished Hardware Section 08700 and door schedule/types drawings within the construction drawing set for details	TBD	A02	D	H3	This door shall be integrated with the video from camera "C45". Alerts such as forced door, door propped and lost/stolen card shall be programmed to notify management and link the video to the access control event log.
R10	Base	Club House	1		Package Room Door	Allegion/ MT15	Bosch/ ISN-CSD70-W	Kantech/ T.REX-XL-NL	n/a	Furnished by the door hardware contractor. Refer to Finished Hardware Section 08700 and door schedule/types drawings within the construction drawing set for details	TBD	A02	D	H3	This door shall be integrated with the video from camera "C47". Alerts such as forced door, door propped and lost/stolen card shall be programmed to notify management and link the video to the access control event log.
R11	Base	Club House	1		Community Double Door Entrance	Allegion/ MT15	Bosch/ ISN-CSD70-W (Qty. 2)	Kantech/ T.REX-XL-NL	n/a	Furnished by the door hardware contractor. Refer to Finished Hardware Section 08700 and door schedule/types drawings within the construction drawing set for details	TBD	A04	D	H3	This door shall be integrated with the video from camera "C49". Alerts such as forced door, door propped and lost/stolen card shall be programmed to notify management and link the video to the access control event log.
R12	Base	Club House	1		Main Entrance	Allegion/ MT15	Bosch/ ISN-CSD70-W	Kantech/ T.REX-XL-NL	n/a	Furnished by the door hardware contractor. Refer to Finished Hardware Section 08700 and door schedule/types drawings within the construction drawing set for details	TBD	A01	D	H3	This door shall be integrated with the video from camera "C48". Alerts such as forced door, door propped and lost/stolen card shall be programmed to notify management and link the video to the access control event log.

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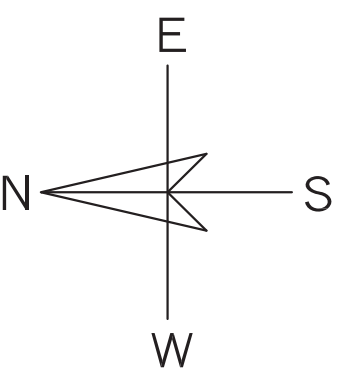
Equipment Schedules  
 2 of 3

PROJECT # 1420

DATE: 9/22/2020  
 REVISED DATE:  
 REVISED: 02/16/2021

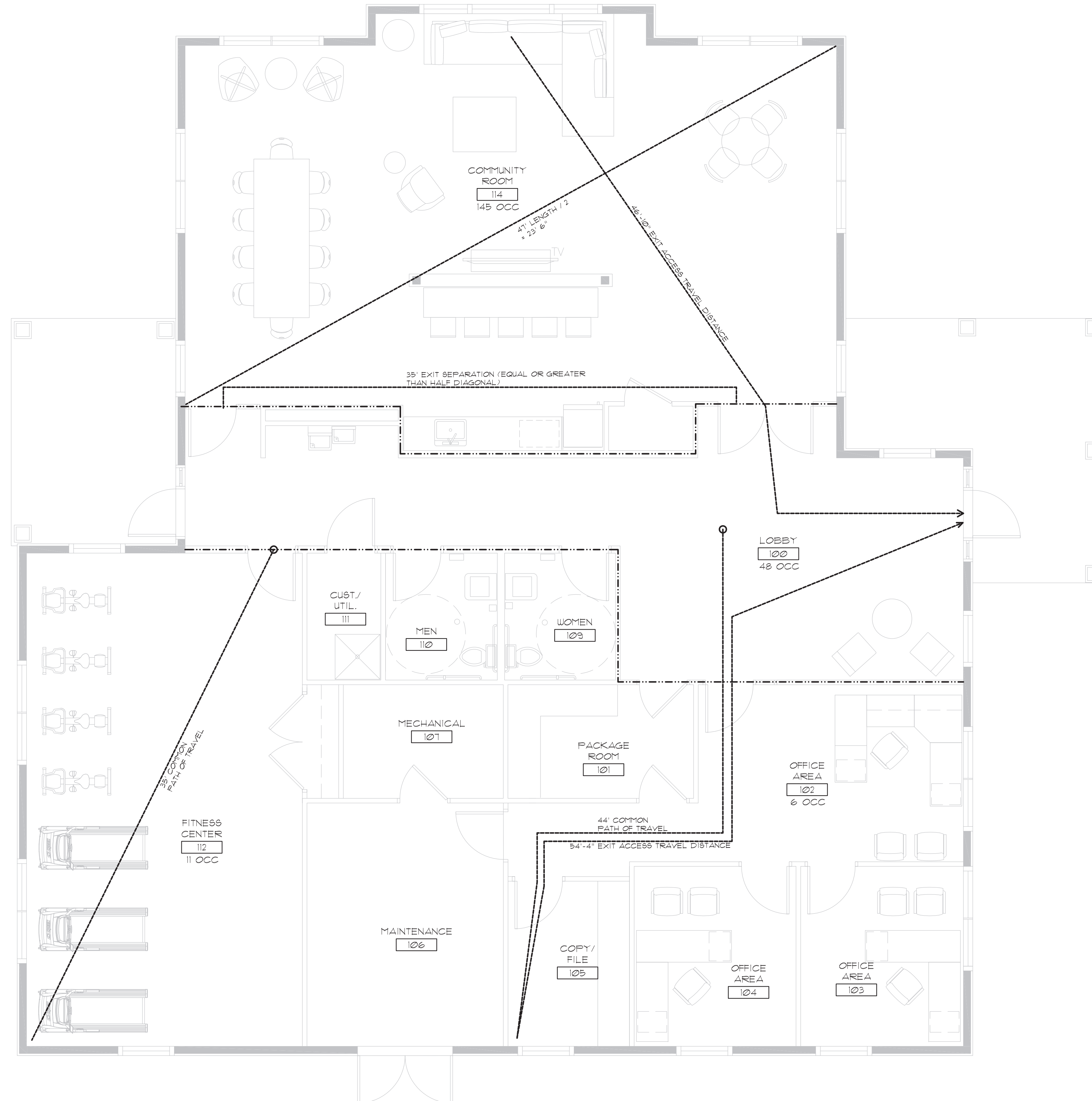
**SEC.22**

VIDEO SURVEILLANCE SYSTEM CAMERA SCHEDULE																					
Device ID	Bldg Option	Bldg	Level	Location	IP Address	Camera	Mount	Adapter 1	Adapter 2	Ethernet-over-UTP Adapter	Mounting Height	Mount Type	Cabling	Detail#	Images per Second	Resolution	Comp.	Motion Enabled	Headend Termination Location	Access Control Integration	Camera View and/or General Notes
C1	Base	E	1	Exterior Front Right		Hanwha/ PNM-9000VQ	Hanwha/ SBP-300WM1	Hanwha/ SBP-276HM	n/a	n/a	Centered between finished ceiling & structural ceiling	Wall	A	V02	15	8MP	H.265	Y	H1	Video from this camera shall be linked to the access control door "R1" event log upon door forced, door propped and lost/stolen card alerts.	Parking lot activity and outside the main entrance
C2	ALT1	E	1	Exterior Left Rear Corner		Hanwha/ PNM-9000VQ	Hanwha/ SBP-300WM1	Hanwha/ SBP-276HM	Hanwha/ SBP-300KM1	n/a	Centered between finished ceiling & structural ceiling	Corner	A	V04	15	8MP	H.265	Y	H1	n/a	General activity between and behind the building
C3	ALT1	F	1	Exterior Left Front		Hanwha/ PNM-9000VQ	Hanwha/ SBP-300WM1	Hanwha/ SBP-276HM	Hanwha/ SBP-300KM1	n/a	Centered between finished ceiling & structural ceiling	Corner	A	V04	15	8MP	H.265	Y	H2	n/a	General activity between and behind the building
C4	Base	F	1	Exterior Front Left Corner		Hanwha/ LNV-6072R	Hanwha/ SBP-300WMW1	Hanwha/ SBP-301HMW2	n/a	n/a	Centered between finished ceiling & structural ceiling	Wall	A	V02	15	2MP	H.264	Y	H2	n/a	General activity behind the building
C5	Base	Club House	1	Exterior Back Left Corner		Hanwha/ LNV-6072R	Hanwha/ SBP-300WMW1	Hanwha/ SBP-301HMW2	n/a	n/a	Centered between finished ceiling & structural ceiling	Wall	A	V02	15	2MP	H.264	Y	H3	n/a	General activity behind the building
C6	Base	Club House	1	Exterior Front Right		Hanwha/ PNM-9000VQ	Hanwha/ SBP-300WM1	Hanwha/ SBP-276HM	n/a	n/a	Centered between finished ceiling & structural ceiling	Wall	A	V02	15	8MP	H.265	Y	H3	Video from this camera shall be linked to the access control door "R1" event log upon door forced, door propped and lost/stolen card alerts.	Parking lot activity and outside the main entrance
C7	Base	F	1	Left Stairwell		Hanwha/ LNV-6012R	n/a	n/a	n/a	n/a	n/a	Ceiling	A	V03	15	2MP	H.264	Y	H2	Video from this camera shall be linked to the access control door "D1" event log upon door forced and door propped alerts.	People entering the building
C8	ALT1	F	1	Laundry Room		Hanwha/ LNV-6012R	n/a	n/a	n/a	n/a	n/a	Ceiling	A	V03	15	2MP	H.264	Y	H2	Video from this camera shall be linked to the access control door "R3" event log upon door forced, door propped and lost/stolen card alerts alerts.	Activity within the room
C9	Base	F	1	Main Corridor		Hanwha/ PNM-7000VD & Two SLA-2M3600D	n/a	n/a	n/a	n/a	n/a	Ceiling	A	V03	15	2x2MP	H.265	Y	H2	n/a	Activity within the Corridor
C10	ALT1	F	1	Elevator Lobby		Hanwha/ LNV-6012R	n/a	n/a	n/a	n/a	n/a	Ceiling	A	V03	15	2MP	H.264	Y	H2	n/a	People entering the building
C11	ALT1	F	1	Elevator Cab		Hanwha/ QND-6011	n/a	n/a	n/a	NV7/ NV-EC1701U-KIT1	n/a	Ceiling	A	V08	15	2MP	H.265	Y	H2	n/a	Activity within the elevator
C12	Base	F	1	Main Vestibule		Hanwha/ LNV-6012R	n/a	n/a	n/a	n/a	n/a	Ceiling	A	V03	15	2MP	H.264	Y	H2	Video from this camera shall be linked to the access control door "R1" event log upon door forced, door propped and lost/stolen card alerts alerts.	People entering the building
C13	ALT1	F	1	Mail Room		Hanwha/ LNV-6012R	n/a	n/a	n/a	n/a	n/a	Ceiling	A	V03	15	2MP	H.264	Y	H2	Video from this camera shall be linked to the access control door "R2" event log upon door forced, door propped and lost/stolen card alerts alerts.	Activity within the room
C14	Base	F	1	Inside Telephone Entry Panel #1		Hanwha/ XNB-6001 & SLA-T2480V	n/a	n/a	n/a	n/a	n/a	Custom	A	n/a	15	2MP	H.265	Y	H2	n/a	Visitors at the telephone entry panel
C15	ALT1	F	2	Left Stairwell		Hanwha/ LNV-6012R	n/a	n/a	n/a	n/a	n/a	Ceiling	A	V03	15	2MP	H.264	Y	H2	n/a	Activity within the stairwell
C16	Base	F	2	Main Corridor		Hanwha/ PNM-7000VD & Two SLA-2M3600D	n/a	n/a	n/a	n/a	n/a	Ceiling	A	V03	15	2x2MP	H.265	Y	H2	n/a	Activity within the Corridor
C17	Base	F	2	Elevator Lobby		Hanwha/ LNV-6012R	n/a	n/a	n/a	n/a	n/a	Ceiling	A	V03	15	2MP	H.264	Y	H2	n/a	Activity within the lobby
C18	ALT1	F	3	Right Stairwell		Hanwha/ LNV-6012R	n/a	n/a	n/a	n/a	n/a	Ceiling	A	V03	15	2MP	H.264	Y	H2	n/a	Activity within the stairwell
C19	ALT1	F	3	Left Stairwell		Hanwha/ LNV-6012R	n/a	n/a	n/a	n/a	n/a	Ceiling	A	V03	15	2MP	H.264	Y	H2	n/a	Activity within the stairwell
C20	Base	F	3	Main Corridor		Hanwha/ PNM-7000VD & Two SLA-2M3600D	n/a	n/a	n/a	n/a	n/a	Ceiling	A	V03	15	2x2MP	H.265	Y	H2	n/a	Activity within the Corridor
C21	Base	F	3	Elevator Lobby		Hanwha/ LNV-6012R	n/a	n/a	n/a	n/a	n/a	Ceiling	A	V03	15	2MP	H.264	Y	H2	n/a	Activity within the lobby
C22	ALT1	F	3	Right Stairwell		Hanwha/ LNV-6012R	n/a	n/a	n/a	n/a	n/a	Ceiling	A	V03	15	2MP	H.264	Y	H2	n/a	Activity within the stairwell
C23	Base	E	1	Left Stairwell		Hanwha/ LNV-6012R	n/a	n/a	n/a	n/a	n/a	Ceiling	A	V03	15	2MP	H.264	Y	H1	Video from this camera shall be linked to the access control door "D2" event log upon door forced and door propped alerts.	People entering the building
C24	ALT1	E	1	Laundry Room		Hanwha/ LNV-6012R	n/a	n/a	n/a	n/a	n/a	Ceiling	A	V03	15	2MP	H.264	Y	H1	Video from this camera shall be linked to the access control door "R6" event log upon door forced, door propped and lost/stolen card alerts alerts.	Activity within the room
C25	Base	E	1	Main Corridor		Hanwha/ PNM-7000VD & Two SLA-2M3600D	n/a	n/a	n/a	n/a	n/a	Ceiling	A	V03	15	2x2MP	H.265	Y	H1	n/a	Activity within the Corridor
C26	ALT1	E	1	Elevator Lobby		Hanwha/ LNV-6012R	n/a	n/a	n/a	n/a	n/a	Ceiling	A	V03	15	2MP	H.264	Y	H1	n/a	People entering the building
C27	ALT1	E	1	Elevator Cab		Hanwha/ QND-6011	n/a	n/a	n/a	NV7/ NV-EC1701U-KIT1	n/a	Ceiling	A	V08	15	2MP	H.265	Y	H1	n/a	Activity within the elevator
C28	Base	E	1	Main Vestibule		Hanwha/ LNV-6012R	n/a	n/a	n/a	n/a	n/a	Ceiling	A	V03	15	2MP	H.264	Y	H1	Video from this camera shall be linked to the access control door "R4" event log upon door forced, door propped and lost/stolen card alerts alerts.	People entering the building
C29	ALT1	E	1	Mail Room		Hanwha/ LNV-6012R	n/a	n/a	n/a	n/a	n/a	Ceiling	A	V03	15	2MP	H.264	Y	H1	Video from this camera shall be linked to the access control door "R5" event log upon door forced, door propped and lost/stolen card alerts alerts.	Activity within the room
C30	Base	E	1	Inside Telephone Entry Panel #2		Hanwha/ XNB-6001 & SLA-T2480V	n/a	n/a	n/a	n/a	n/a	Custom	A	n/a	15	2MP	H.265	Y	H1	n/a	Visitors at the telephone entry panel
C31	ALT1	E	2	Left Stairwell		Hanwha/ LNV-6012R	n/a	n/a	n/a	n/a	n/a	Ceiling	A	V03	15	2MP	H.264	Y	H1	n/a	Activity within the stairwell
C32	Base	E	2	Main Corridor		Hanwha/ PNM-7000VD & Two SLA-2M3600D	n/a	n/a	n/a	n/a	n/a	Ceiling	A	V03	15	2x2MP	H.265	Y	H1	n/a	Activity within the Corridor
C33	Base	E	2	Elevator Lobby		Hanwha/ LNV-6012R	n/a	n/a	n/a	n/a	n/a	Ceiling	A	V03	15	2MP	H.264	Y	H1	n/a	Activity within the lobby
C34	ALT1	E	3	Right Stairwell		Hanwha/ LNV-6012R	n/a	n/a	n/a	n/a	n/a	Ceiling	A	V03	15	2MP	H.264	Y	H1	n/a	Activity within the stairwell
C35	ALT1	E	3	Left Stairwell		Hanwha/ LNV-6012R	n/a	n/a	n/a	n/a	n/a	Ceiling	A	V03	15	2MP	H.264	Y	H1	n/a	Activity within the stairwell
C36	Base	E	3	Main Corridor		Hanwha/ PNM-7000VD & Two SLA-2M3600D	n/a	n/a	n/a	n/a	n/a	Ceiling	A	V03	15	2x2MP	H.265	Y	H1	n/a	Activity within the Corridor
C37	Base	E	3	Elevator Lobby		Hanwha/ LNV-6012R	n/a	n/a	n/a	n/a	n/a	Ceiling	A	V03	15	2MP	H.264	Y	H1	n/a	Activity within the lobby
C38	ALT1	E	3	Right Stairwell		Hanwha/ LNV-6012R	n/a	n/a	n/a	n/a	n/a	Ceiling	A	V03	15	2MP	H.264	Y	H1	n/a	Activity within the stairwell
C39	ALT1	E	4	Left Stairwell		Hanwha/ LNV-6012R	n/a	n/a	n/a	n/a	n/a	Ceiling	A	V03	15	2MP	H.264	Y	H1	n/a	Activity within the stairwell
C40	Base	E	4	Main Corridor		Hanwha/ PNM-7000VD & Two SLA-2M3600D	n/a	n/a	n/a	n/a	n/a	Ceiling	A	V03	15	2x2MP	H.265	Y	H1	n/a	Activity within the Corridor
C41	Base	E	4	Elevator Lobby		Hanwha/ LNV-6012R	n/a	n/a	n/a	n/a	n/a	Ceiling	A	V03	15	2MP	H.264	Y	H1	n/a	Activity within the lobby
C42	ALT1	E	4	Right Stairwell		Hanwha/ LNV-6012R	n/a	n/a	n/a	n/a	n/a	Ceiling	A	V03	15	2MP	H.264	Y	H1	n/a	Activity within the stairwell
C43	ALT1	Club House	1	Fitness Room		Hanwha/ LNV-6012R	n/a	n/a	n/a	n/a	n/a	Ceiling	A	V03	15	2MP	H.264	Y	H3	Video from this camera shall be linked to the access control door "R9" event log upon door forced, door propped and lost/stolen card alerts alerts.	Activity within the room
C44	ALT1	Club House	1	Maintenance Shop		Hanwha/ LNV-6012R	n/a	n/a	n/a	n/a	n/a	Ceiling	A	V03	15	2MP	H.264	Y	H3	n/a	People entering the building
C45	Base	Club House	1	Main Hallway		Hanwha/ PNM-7000VD & Two SLA-2M3600D	n/a	n/a	n/a	n/a	n/a	Ceiling	A	V03	15	2x2MP	H.265	Y	H3	Video from this camera shall be linked to the access control door "R7" & "R12" event log upon door forced, door propped and lost/stolen card alerts alerts.	People entering the building
C46	ALT1	Club House	1	Community Room		Hanwha/ LNV-6012R	n/a	n/a	n/a	n/a	n/a	Ceiling	A	V03	15	2MP	H.264	Y	H3	Video from this camera shall be linked to the access control door "R8" & "R11" event log upon door forced, door propped and lost/stolen card alerts alerts.	Activity within the room



**GENERAL NOTES:**

1. ALL DIMENSIONS TO THE FACE OF FRAMING/STUDS UNLESS OTHERWISE NOTED.
2. REFERENCE SCHEDULE SHEETS FOR DOOR AND FINISH SCHEDULES.
3. PROVIDE BLOCKING IN WALLS FOR ALL FIXTURES AND ACCESSORIES.
4. FLASH PATCH FLOOR AS NEEDED TO INSTALL FLOOR FINISHES.
5. DOORS SHALL BE MOUNTED 5" AWAY FROM ADJACENT WALL, UNLESS NOTED OTHERWISE OR SHOWN IN DIFFERENT LOCATION.



**COMMUNITY BUILDING CODE REVIEW:**

Project Name: Woodland Cove Phase I  
Address: 3102 Cranberry Highway, Wareham, MA  
Code Review: Massachusetts State Building Code 9th edition

**Community Building**

Building Use:	First Floor:	A-3	Assembly
Area of Building:	First Floor:	3358 s.f.	
Number of Stories:		1	
Height:		24'-5"	
Construction Type:		5B Non-Sprinklered	No rating required for structural elements
Allowable Area:		Aa=(6,000+(6,000x1)x1) Aa= 12,000 sf per floor Aa = 12,000 sf for entire building	EQ, 5-2 (area Increase)
Allowable Height:		40 Feet	
Incidental Use spaces	Laundry Rooms Boiler & Fuel fired heater rooms	1 Hour or Sprinkler System One Hour and sprinklers	Walls must be constructed as smoke barriers. No equip over 440,000 btuh/hr
Exterior Wall Fire Resistance Rating		Type 5B construction has no requirements at distances greater than 30 feet	
Corridor Wall Rating		1 hour at areas serving greater than 30 persons	
Shaft Enclosure		None	
Draft stopping at concealed floor / ceiling spaces		Required	
Draft stopping at concealed spaces in roof construction		Required to separate spaces into 3000 s.f. or less	
Interior Wall Finishes	Corridors Lobbies Other spaces	Class A Class B Class C	
Interior Floor Finishes	Exit Enclosures Lobbies & Corridors	Class II Class II	

Egress	Floor	Space	Area	Occupancy 1 per 200 s.f.
Occupant Load	First Floor	Community Room	1010 s.f.	145 Use 7 sf per person
		Lobby	330 s.f.	48 Use 7 sf per person
		Fitness Center	540 s.f.	11 Use 50 sf per person
		Offices	564 s.f.	6 Use 100 sf per person
<b>Total</b>				<b>210</b>

Common Path of Travel (Offices) 75 feet with less than 49 occupants 44 feet actual  
Common Path of Travel (Fitness) 75 feet with less than 49 occupants 35 feet actual  
Exit Access Travel Distance (Offices) 200 feet allowable 55 feet actual  
Exit Access Travel Distance (Community Center) 200 feet allowable 47 feet actual  
Dead End Corridor N/A

Two exits provided from Community Room

Door separation = 1/3 diagonal of bldg Diagonal of Community Space=48 feet / 3 = 16 feet Doors separated by 36 feet

Fire Alarm NFPA 72 Municipally Connected fire alarm system

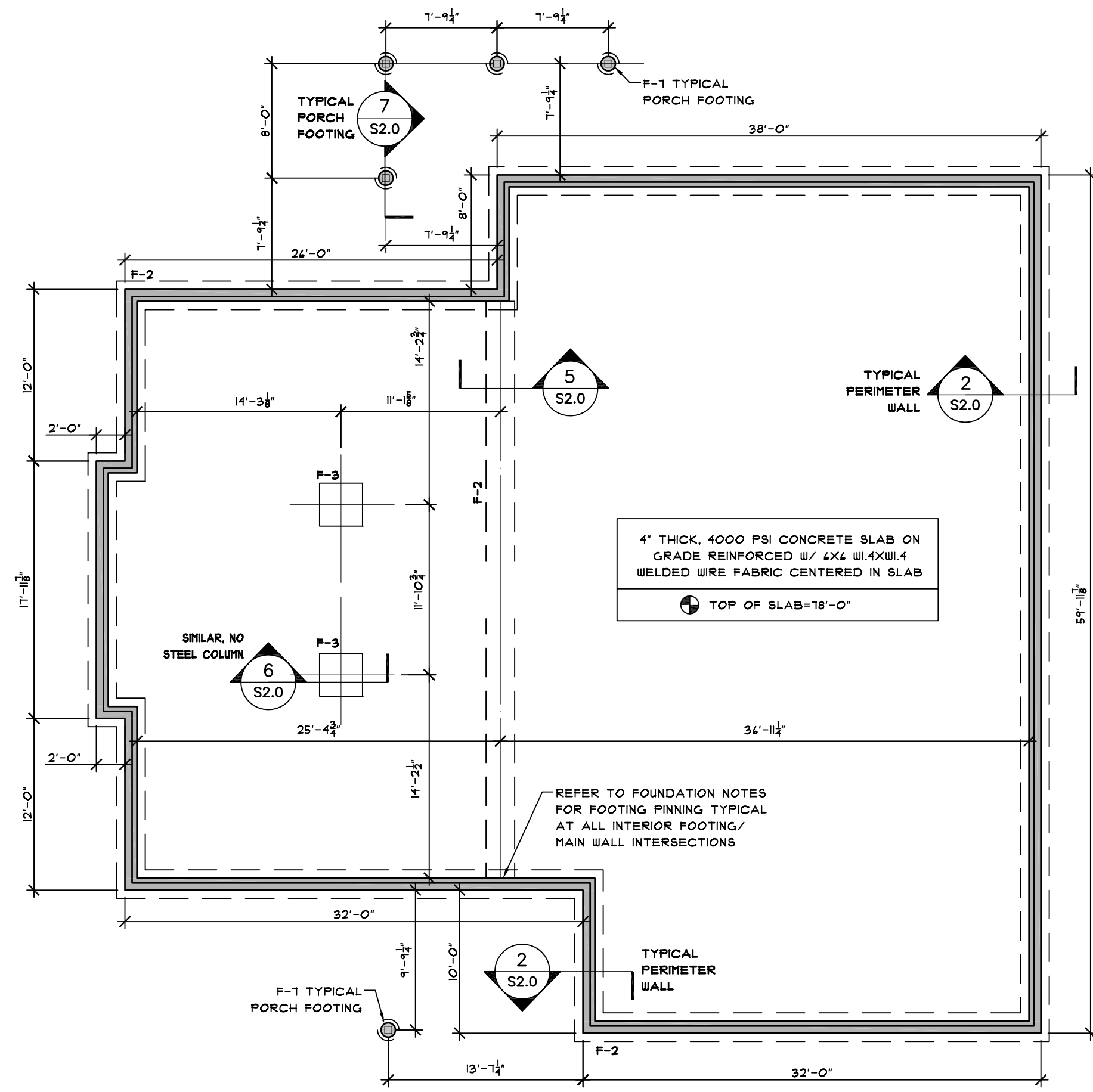
Insulation Requirements  
Roofs (Insulation above Deck) R-30 Required R-30 Provided  
Walls Above Grade wood framed R-20 + R-3.8 ci R-20 + R-3.8 ci provided  
Slab on Grade (unheated) R-10 to 24" below grade R-10 under slab provided

Accessibility All spaces are accessible

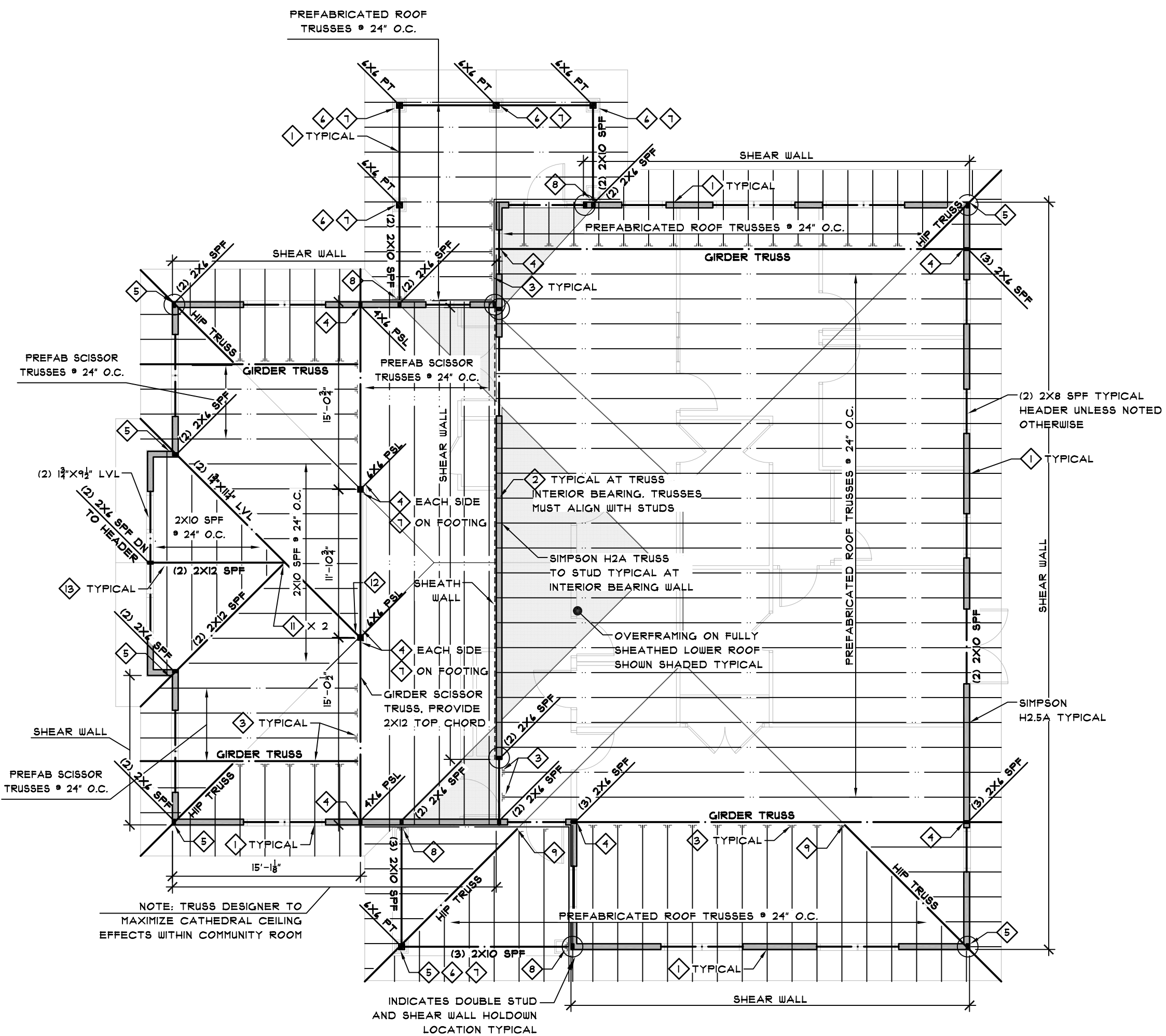
**LEGEND:**

----- 1 HR FIRE RATING SEPARATION

←----- EXIT TRAVEL DISTANCE



1 FOUNDATION PLAN  
S9.0 1/8" = 1'-0"



2 ROOF FRAMING PLAN  
S9.0 1/8" = 1'-0"

HOLDOWN SCHEDULE		
◇	SIMPSON H2.5A	TRUSS TO WALL TYPICAL. INSTALL ON SHEATHED SIDE OF WALL.
◇	SIMPSON H2A	TRUSS TO INTERIOR BEARING WALL TYPICAL. TRUSSES MUST ALIGN W/ STUDS.
◇	SIMPSON LUS SERIES HANGERS	FLOOR/ROOF JOIST TO BEAM/ LEDGER. INSTALL ALL SIDE SHEAR NAILS INTO JOIST.
◇	SIMPSON LGT HOLDOWN	GIRDER TRUSS TO POST BELOW.
◇	SIMPSON TS22 TWIST STRAP	HIP TRUSS TO POST BELOW. INSTALL ON SHEATHED SIDE OF WALL.
◇	SIMPSON LCE SERIES POST CAP	EACH PORCH BEAM TO FT. POST.
◇	SIMPSON ABU SERIES POST BASE	PT POST TO CONCRETE PIER. EMBED 1/2" DIA GALV THREADED ROD 4" MIN IN EPOXY OR CAST IN PLACE 12" LONG J ANCHOR.
◇	SIMPSON HUC SERIES HANGER	PORCH BEAM TO POST. INSTALL ALL SIDE SHEAR NAILS INTO PORCH BEAM.
◇	SIMPSON THJA SERIES HANGER	HIP TO LEDGER.
◇	SIMPSON LSTA15 STRAP	FLUSH HEADER TO POST EACH END. CENTER STRAP ON EACH MEMBER.
◇	(5) TIMBERLOKS	VALLEY TO VALLEY, RIDGE TO VALLEY. EMBED 3" MIN INTO LONG VALLEY.
◇	(8) TIMBERLOKS	VALLEY TO TRUSS. INSTALL AT BASE OF MITER FULL THICKNESS OF HIP. EMBED INTO GIRDER TRUSS 3" MIN.
◇	SIMPSON LSTA30	RAPTER TO RAPTER OVER RIDGE. CENTER STRAP ON RIDGE.

- GENERAL STRUCTURAL NOTES:**
- ALL WORK IS TO BE DONE IN ACCORDANCE WITH THE MASSACHUSETTS STATE BUILDING CODE AND ASSOCIATED MA AMENDMENTS (2015 IBC).
  - COORDINATE ALL DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS.
  - ALL SUBGRADE AND UNDERSLAB SOIL PREPARATION TO BE DIRECTED AND INSPECTED BY THE PROJECT GEOTECHNICAL ENGINEER AND ASSOCIATED INSPECTORS.
  - REFER TO THE STATEMENT OF SPECIAL INSPECTIONS FOR ALL INSPECTION TASKS. TESTING SCHEDULING IS SOLELY THE RESPONSIBILITY OF THE CLIENT/CONTRACTOR. TESTING NOT COMPLETED BY THE CONTRACTOR SHALL REQUIRE THE CONTRACTOR TO REMOVE ANY PROGRESSION OF WORK TO EXPOSE ELEMENTS NECESSARY TO PERFORM THE PRESCRIBED TESTING, PERFORM DESTRUCTIVE TESTING, OR RETAIN A THIRD PARTY ENGINEER AT THEIR COST TO CERTIFY COMPLETED WORK IN QUESTION. ANY FAILED TESTING RESULTS SHALL REQUIRE THE CONTRACTOR TO CORRECT THE ISSUE AND RESUBMIT INSPECTION REPORTS SHOWING COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS OR PROVIDE CERTIFICATION OF A THIRD PARTY ENGINEER IF COMPLIANCE IS NOT MET.
  - REFER TO SPECIFICATIONS FOR ALL MATERIAL GRADES.
  - PROVIDE SUBMITTALS FOR REVIEW FOR ALL ROOF AND FLOOR TRUSSES, CONVENTIONAL AND ENGINEERED WOOD FRAMING, SHEATHING, CONCRETE MIX DESIGNS, CONCRETE REINFORCING, AND MISCELLANEOUS HARDWARE.
  - ALL WOOD STUD BEARING WALLS ARE SHOWN SHADED ON THE FRAMING PLANS.
  - ALL LUMBER MUST HAVE A MOISTURE CONTENT OF 19% MAX AT THE TIME OF DELIVERY AND SHALL BE STORED OFF THE GROUND AND COVERED ON SITE PRIOR TO BEING INSTALLED. INSTALL ALL NON BEARING PARTITIONS TO ACCOMMODATE SHRINKAGE OF 1/8" AT EACH LEVEL.
  - ALL POSTS LOCATED WITHIN WALLS MUST BE BRACED BY FASTENING THROUGH WALL SHEATHING 8d NAILS AT 4' O.C.
  - ALL FLOOR AND ROOF BEAMS MUST BE LATERALLY BRACED ALONG THE TOP EDGE BY FASTENING THROUGH THE FLOOR OR ROOF SHEATHING W/ 8d NAILS @ 4' O.C.
  - REFER TO SHEAR WALL PLAN AND NOTES ON S1.2 AND S1.4 FOR SHEAR WALL LOCATIONS, CONSTRUCTION AND HOLDOWN REQUIREMENTS.

FOOTING SCHEDULE		
MARK	SIZE	REINFORCING
F-1	3'-0" WIDE X 1'-0" THICK, CONTINUOUS	(3) #5 BARS CONTINUOUS
F-2	2'-0" WIDE X 1'-0" THICK, CONTINUOUS	(3) #5 BARS CONTINUOUS
F-3	3'-0" X 3'-0" X 1'-0" THICK	(4) #5 BARS EACH WAY, 3" COVER FROM BOTTOM OF FOOTING
F-4	4'-0" X 4'-0" X 1'-0" THICK	(5) #5 BARS EACH WAY, 3" COVER FROM BOTTOM OF FOOTING
F-5	10'-11" X 12'-4" X 1'-0" THICK	#5 @ 12" O.C. EACH WAY, 3" COVER FROM BOTTOM OF FOOTING
F-6	2'-4" WIDE X 1'-0" THICK, CONTINUOUS	(3) #5 BARS CONTINUOUS
F-7	12" DIAMETER PIER FLARED TO 20" MIN AT BASE	(4) VERTICAL EACH QUADRANT

- FOOTING/FOUNDATION PLAN NOTES:**
- SUBGRADE QUALITY, AND PREPARATION TO BE DETERMINED BY THE PROJECT GEOTECHNICAL ENGINEER. COORDINATE ALL SUBGRADE WORK WITH ASSOCIATED INSPECTORS.
  - REFER TO STATEMENT OF SPECIAL INSPECTIONS FOR ALL INSPECTION REQUIREMENTS.
  - A MAXIMUM DESIGN SOIL BEARING PRESSURE OF 2000 PSF HAS BEEN USED FOR THE DESIGN OF FOOTINGS. GEOTECHNICAL ENGINEER TO CONFIRM SUBGRADE CAPACITY.
  - PROVIDE CORNERBARS AT ALL CORNERS IN CONTINUATION OF ALL REINFORCING DETAILS. LAP ALL BARS 24" MIN.
  - PERFORM CONCRETE WORK IN ACCORDANCE WITH ACI 301. REFER TO THE SPECIFICATIONS FOR COLD WEATHER AND OTHER CONCRETE REQUIREMENTS.
  - ALL CONCRETE FOOTINGS AND FOUNDATION WALLS TO BE 3000 PSI AT 28 DAYS. ALL CONCRETE SLABS ARE TO BE 4000 PSI CONCRETE AT 28 DAYS. MAINTAIN MOISTURE IN CONCRETE FOR A MINIMUM OF 12 HOURS.
  - ALL REINFORCING BARS ARE TO BE ASTM A415 GRADE 60 STEEL.
  - ALL WELDED WIRE FABRIC TO BE ASTM A185 PLAIN.
  - WHERE INTERIOR FOOTINGS INTERSECT WITH MAIN FOUNDATION WALL, PIN FOOTING TO WALL WITH (3) #5 X 24" BARS EMBEDDED 4" INTO MAIN WALL IN EPOXY.

- SHEAR WALL PLAN NOTES:**
- ALL DESIGNATED SHEAR WALLS ARE TO HAVE SOLID BLOCKING INSTALLED BETWEEN STUDS ALONG ALL HORIZONTAL SHEATHING EDGES AND FASTENED WITH 8d NAILS AT 4' O.C. AT EDGES, 12" O.C. FIELD.
  - ALL SHEAR WALLS TO HAVE A DOUBLE STUD (SIMPSON HDUS-SDS HOLDOWN) EACH END.
  - HDU HOLDOWNS ARE TO BE EPOXY ANCHORED DIRECTLY INTO THE FOUNDATION WALL. MINIMUM EMBEDMENT FOR ALL 1/2" DIA THREADED RODS IN EPOXY TO BE 8".

- WIND CONSTRUCTION REQUIREMENTS:**
- CONTINUOUS LOAD PATH:**
- ALL ROOF FRAMING ELEMENTS ARE SUBJECT TO WIND UPLIFT AND MUST BE ANCHORED TO THE STRUCTURE WITH SUPPLEMENTAL HARDWARE OR OTHER MEANS AS SPECIFIED IN THE PLANS. ADDITIONALLY, A CONTINUOUS LOAD PATH MUST BE MAINTAINED FROM THE ROOF LEVEL TO THE FOUNDATION VIA PLYWOOD WALL SHEATHING ON THE EXTERIOR WALLS. SEE NOTES BELOW FOR PLYWOOD LAPPING AND FASTENING REQUIREMENTS.
- EXTERIOR WALL SHEATHING REQUIREMENTS:**
- ALL SHEATHING MUST BE 1/2" STRUCTURAL I SHEATHING AND RUN HORIZONTALLY (PERPENDICULAR TO FRAMING).
  - SHEATHING MUST LAP ONTO ANY WALL STUD 14" MINIMUM FROM THE TOP OR BOTTOM PLATES. REFER TO SHEAR WALL NOTES FOR FASTENING REQUIREMENTS.
  - AT INTERMEDIATE FLOOR LEVEL, LAP SHEATHING SUCH THAT THE JOINT IS CENTERED ON THE 2x8 TRUSS BAND. REFER TO I0/S2.0.
  - FASTEN ALL SHEATHING EDGES TO TOP, BOTTOM, AND SILL PLATES WITH 8d NAILS @ 4' O.C.
  - REFER TO THE SHEAR WALL PLAN ON S1.2 AND S1.4 FOR ADDITIONAL FRAMING/ SHEATHING/ FASTENING REQUIREMENTS.
- FLOOR SHEATHING:**
- USE 1/2" TIG STRUCTURAL I SHEATHING.
  - FASTEN TO FLOOR FRAMING WITH 8d RING NAILS AND CONSTRUCTION ADHESIVE.
  - FASTENING SPACING:
    - WITHIN 8' OF ANY EXTERIOR WALL: NAIL AT 4' O.C. ALONG PLYWOOD ENDS, 4' O.C. FIELD
    - INBOARD OF 8' PERIMETER: NAIL AT 4' O.C. ON ENDS, 12" O.C. FIELD.
- ROOF SHEATHING:**
- 1/2" TIG CDX STRUCTURAL I SHEATHING.
  - FASTEN ROOF SHEATHING TO FRAMING WITH 8d NAILS.
  - FASTENER SPACING:
    - WITHIN 4' OF ANY EXTERIOR WALL OR RIDGE: FASTEN WITH 8d NAILS @ 4' O.C. AT EDGES, 4' O.C. FIELD, ON GABLE END RAKE OR RIDGE; 4' O.C. ALONG ENTIRE RUN.
    - INBOARD OF 4' PERIMETER, 4' O.C. ENDS, 12" O.C. INTERMEDIATE.

- MATERIAL SPECIFICATIONS:**
- MATERIALS AND MANUFACTURERS USED IN THIS DESIGN ARE LISTED BELOW. SUBSTITUTIONS ARE PERMITTED UPON APPROVAL OF THE ENGINEER OF RECORD. PROVIDE MATERIAL SPECIFICATIONS AND/OR ANY ADDITIONAL PERTINANT INFORMATION FOR ALL PRODUCTS TO BE CONSIDERED.
- ALL CONVENTIONAL WOOD FRAMING TO BE SPF #1/#2 OR BETTER WITH A MAXIMUM MOISTURE CONTENT OF 15%.
  - USE PRESSURE TREATED WOOD AT ALL FRAMING EXPOSED TO THE WEATHER, IN CONTACT WITH CMU OR CONCRETE, OR AS INDICATED ON THE DRAWINGS.
  - ALL LVL BEAMS TO HAVE A MINIMUM ALLOWABLE BENDING STRESS OF 2400 PSI AND A MODULUS OF ELASTICITY OF 1,400,000 PSI.
  - ALL SUPPLEMENTAL HARDWARE IS SPECIFIED FROM SIMPSON STRONG TIE LOAD TABLES.
  - THREADED RODS AND BOLTS TO BE A307, EXCEPT AT BRACED FRAMES USE A325. ALL PARTS EXPOSED TO THE WEATHER, CMU, OR CONCRETE MUST BE GALVANIZED.
  - SIMPSON "ET" EPOXY TIE ADHESIVE DESIGN LOADS HAVE BEEN USED TO DETERMINE ANCHOR EMBEDMENT. WHERE COLD WEATHER APPLICATION IS REQUIRED (LESS THAN 40 DEGREES F), SUBSTITUTE WITH SIMPSON ACRYLIC TIE ADHESIVE.
  - ALL T/J'S ARE SIZED BY TRUS JOIST INCORPORATED STRUCTURAL PROPERTIES. ANY SUBSTITUTIONS MUST MEET BOTH EI AND BENDING MOMENT CRITERIA SIMILAR TO SERIES SPECIFIED ON THE PLANS.

**Ed Wojcik**  
architect, ltd  
One Richmond Square  
Providence, RI 02906  
401-861-7139

**YODER + TIDWELL**  
engineers  
333 South Street  
Providence, RI 02908  
401-753-2460 (ext)  
401-274-7317 (fax)  
www.yoder-tidwell.com

Proposed Design for:  
**Woodland Cove**  
**Phase I**  
Buildings E, F, & COMMUNITY BUILDING  
3102 Cranberry Highway  
Wareham, MA 02632



SHEET CONTENTS:  
COMMUNITY BLDG  
FRAMING/SHEAR WALL/  
FOUNDATION PLAN

PROJECT # 1420  
DATE: 9/22/2020  
REVISED DATE:  
REVISED: 02/16/2021

**S9.0**

CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

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**WALL TYPES: COMMUNITY BUILDING**

**A2 EXTERIOR WALL (VINYL SIDING)**  
 VINYL SIDING OVER  
 1 1/2" EXTERIOR INSULATED ZIPWALL SYSTEM SHEATHING OVER  
 1/2" STRUCTURAL I SHEATHING ON  
 2X6 WOOD STUDS AT 16" O.C. WITH  
 DENSE PACK CELLULOSE INSULATION,  
 5/8" GYPSUM BOARD

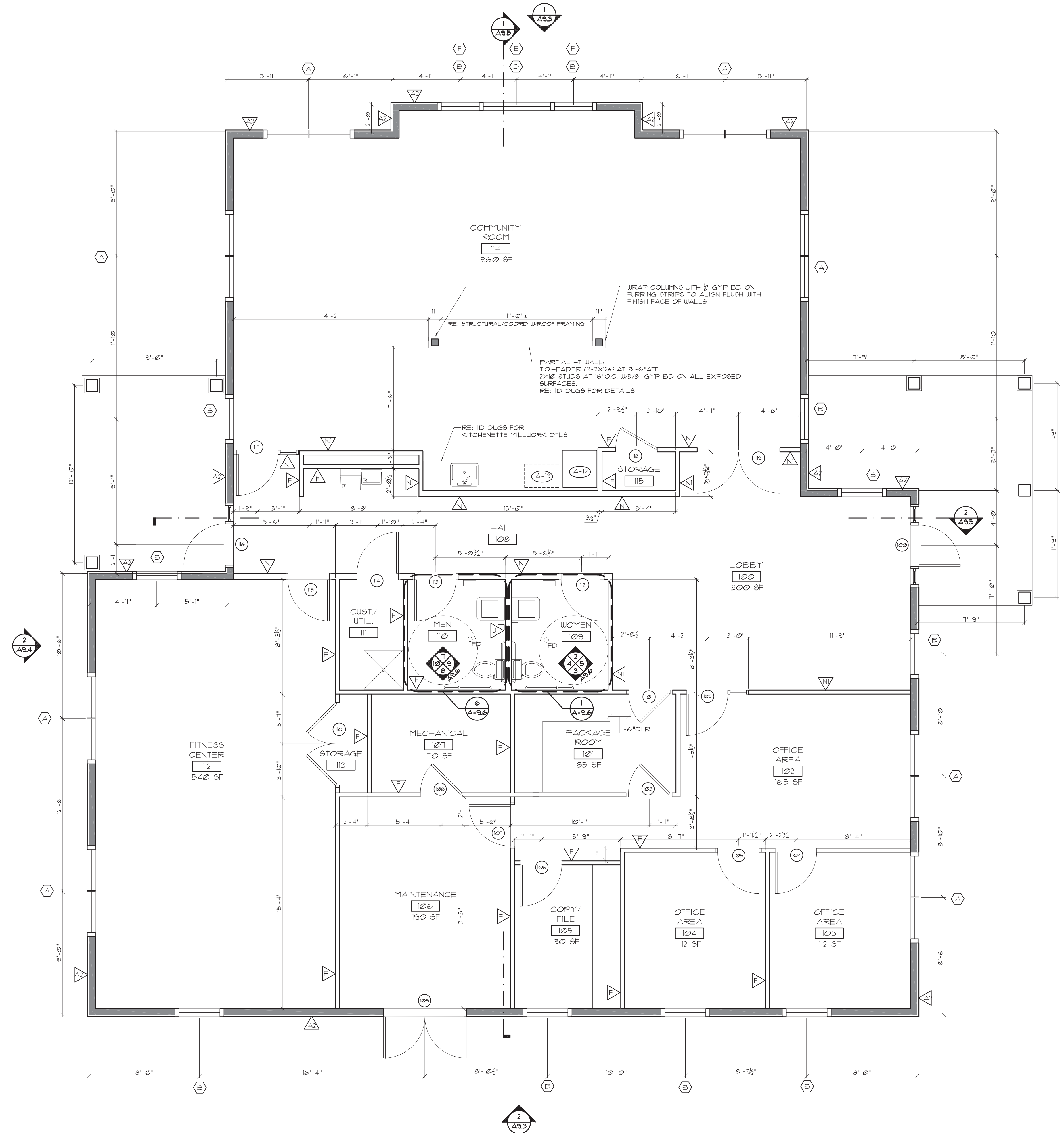
**F INTERIOR NON-BEARING WALL**  
 5/8" GYPSUM BOARD ON EACH SIDE OF  
 2X4 WOOD STUDS AT 16" O.C. WITH  
 3 1/2" ACOUSTICAL INSULATION AT BATH WALLS  
 ALT. ARC-3: 3 5/8" METAL STUDS AT 16" O.C.

**J PLUMBING WALL**  
 2X6 WOOD STUDS AT 16" O.C. WITH  
 1/2" GLASS FACED GYPSUM BOARD EACH SIDE  
 ALT. ARC-3: 6" METAL STUDS AT 16" O.C.

**N CORRIDOR SEPARATION WALL  
 - 1 HR RATED REQUIRED**  
 5/8" FIRE SHIELD GYPSUM BOARD ON  
 2X4 WOOD STUDS AT 16" O.C. TO UNDERSIDE OF ROOF DECK WITH  
 5 1/2" GLASS FIBER INSULATION AND  
 RESILIENT CHANNEL AT 24" O.C. ON CORRIDOR SIDE, AND  
 5/8" FIRE SHIELD GYPSUM BOARD  
 STC RATING: 51  
 UL RATING: U205, 1 HOUR

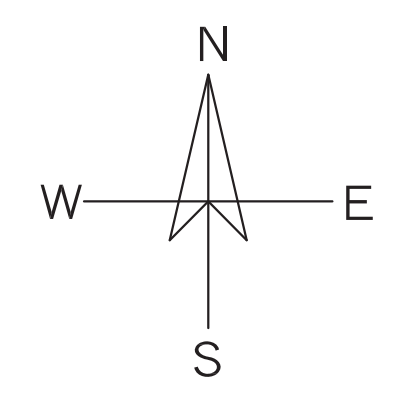
**NI CORRIDOR SEPARATION WALL  
 - 1 HR RATED REQUIRED**  
 5/8" FIRE SHIELD GYPSUM BOARD ON  
 2X4 WOOD STUDS AT 16" O.C. TO UNDERSIDE OF ROOF DECK WITH  
 3 1/2" GLASS FIBER INSULATION AND  
 RESILIENT CHANNEL AT 24" O.C. ON CORRIDOR SIDE, AND  
 5/8" FIRE SHIELD GYPSUM BOARD  
 STC RATING: 51  
 UL RATING: U205, 1 HOUR

**H SHAFT WALL - 1 HR RATED REQUIRED**  
 5/8" FIRE SHIELD GYPSUM BOARD ON  
 2 1/2" ZOG STEEL C-H STUDS AT 24" O.C. WITH  
 BREAKAWAY CLIPS AT EACH FLOOR AND 1" GYPSUM BOARD  
 SHAFTLINER  
 SHAFT TO BE CONSTRUCTED TO UNDERSIDE OF DECK  
 UL RATING: U415 - 1 HOUR



**COMMUNITY BUILDING FLOOR PLAN**

1/4" = 1'-0"



Proposed Design for:  
**Woodland Cove**  
**Phase I**  
 Buildings E, F, & COMMUNITY BUILDING  
 3102 Cranberry Highway  
 Wareham, MA 02532



**SHEET CONTENTS:**  
 Community Building:  
 Floor Plan

PROJECT # 1420  
 DATE: 9/22/2020  
 REVISED DATE:  
 REVISED: 02/16/2021

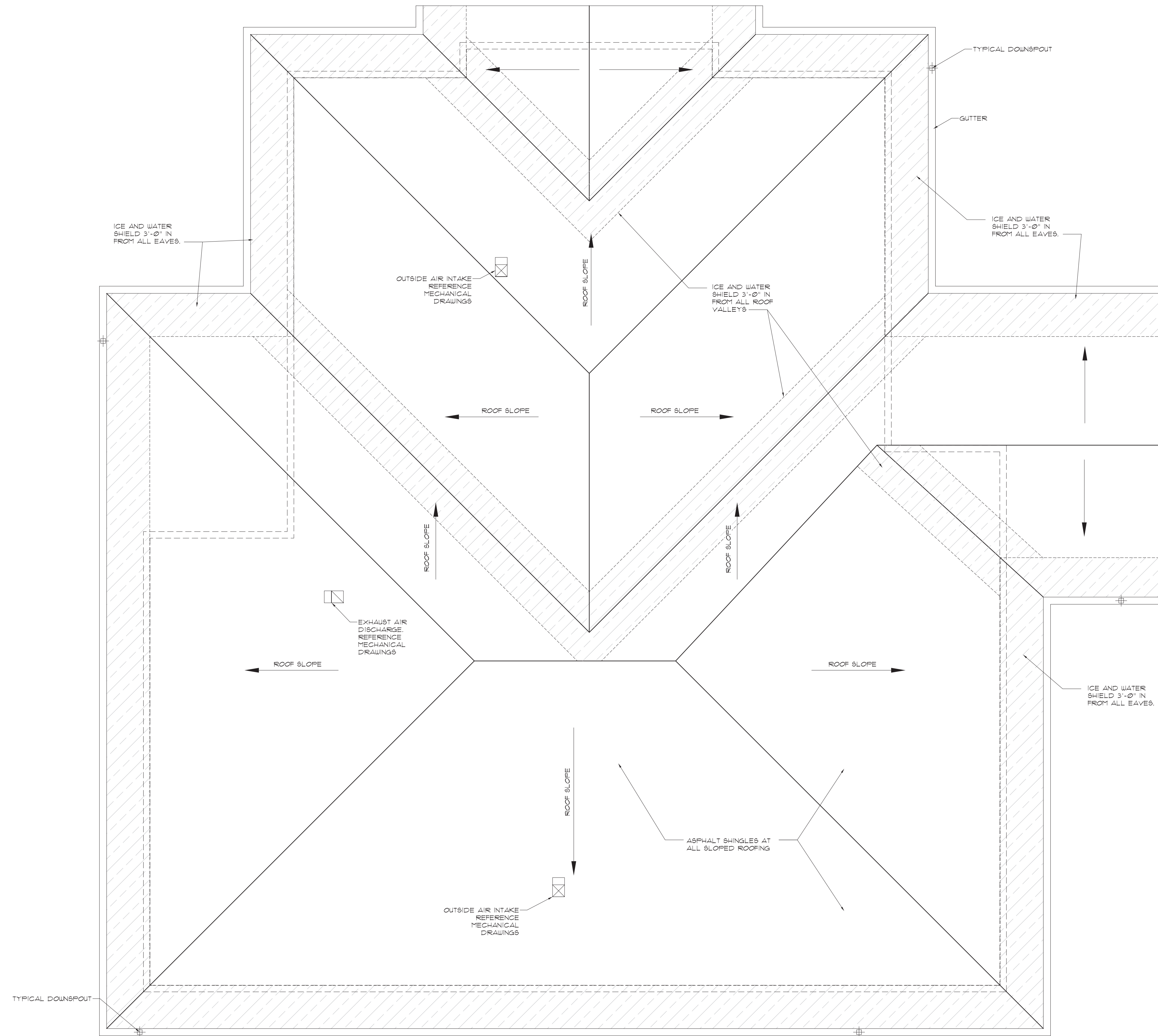
**A9.0**

CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

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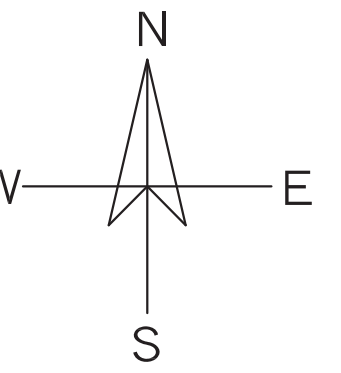


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COMMUNITY BUILDING ROOF PLAN

1 1/4" = 1'-0"



SHEET CONTENTS:  
 Community Building:  
 Roof Plan

PROJECT # 1420

DATE: 9/22/2020

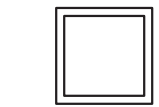
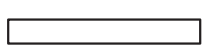








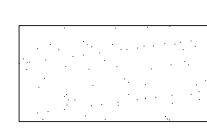
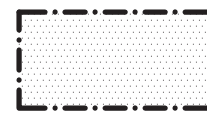



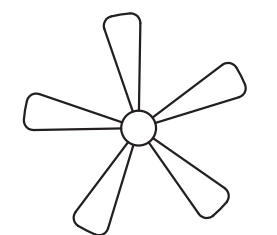
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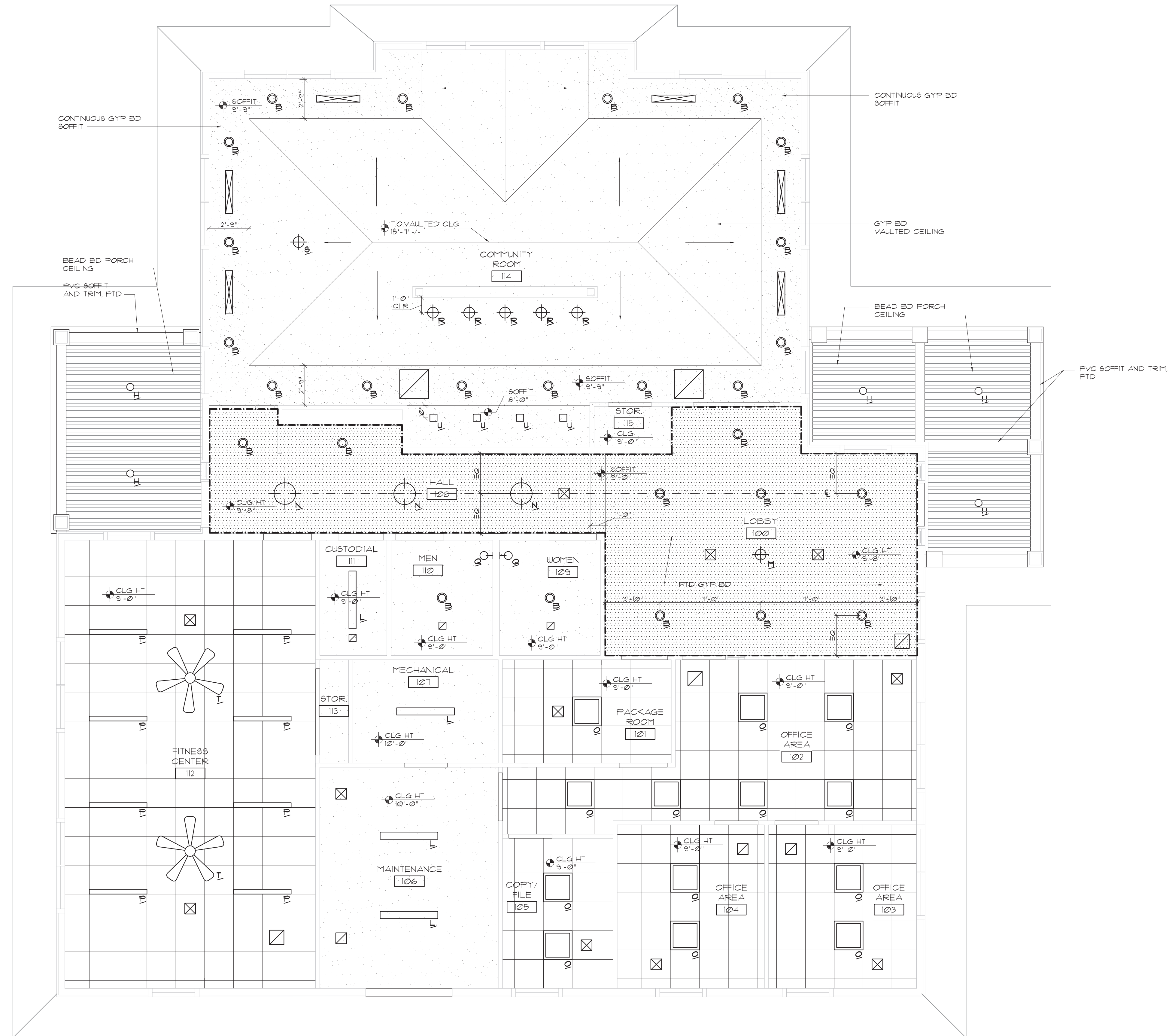
▲ REVISED: 02/16/2021

**A9.1**

CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

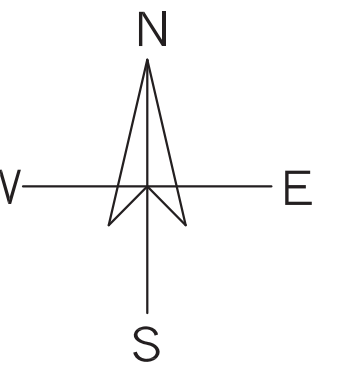
**RCP LEGEND**

-  2X2 RECESSED LIGHT
-  4'-0" SURFACE MOUNTED LED UTILITY LIGHT
-  6" RECESSED LED DOWNLIGHT FIXTURE
-  WALL SCONCE
-  SURFACE FLUSH MOUNTED LIGHT
-  DROP PENDANT DECORATIVE LED FIXTURE
-  4" SQUARE RECESSED DOWNLIGHT LED FIXTURE
-  4'-0" RECESSED DOWNLIGHT LED FIXTURE
-  6" SQUARE RECESSED DOWNLIGHT LED FOR WET LOCATIONS
-  ACT CEILING GRID
-  GYPSUM BOARD
-  1 HOUR FIRE RATED HORIZONTAL SHAFT MEMBRANE CEILING ASSEMBLY (FRAMING TO BE ENGINEERED BY SUPPLIER)
-  SUPPLY GRILLE
-  EXHAUST/RETURN GRILLE
-  SUPPLY GRILLE
-  CEILING FAN WITH LIGHT KIT



COMMUNITY BUILDING REFLECTED CEILING PLAN

1 1/4" = 1'-0"

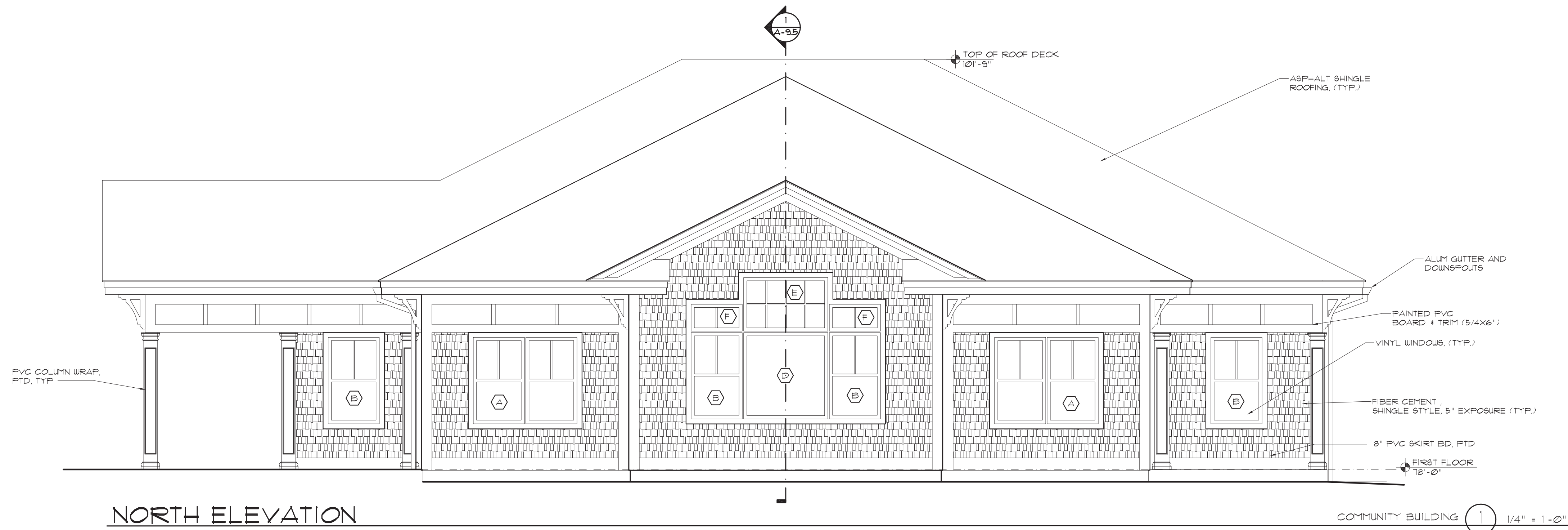


SHEET CONTENTS:  
 Community Building:  
 Floor Plan

PROJECT # 1420  
 DATE: 9/22/2020  
 REVISED DATE:  
 REVIS: 02/16/2021

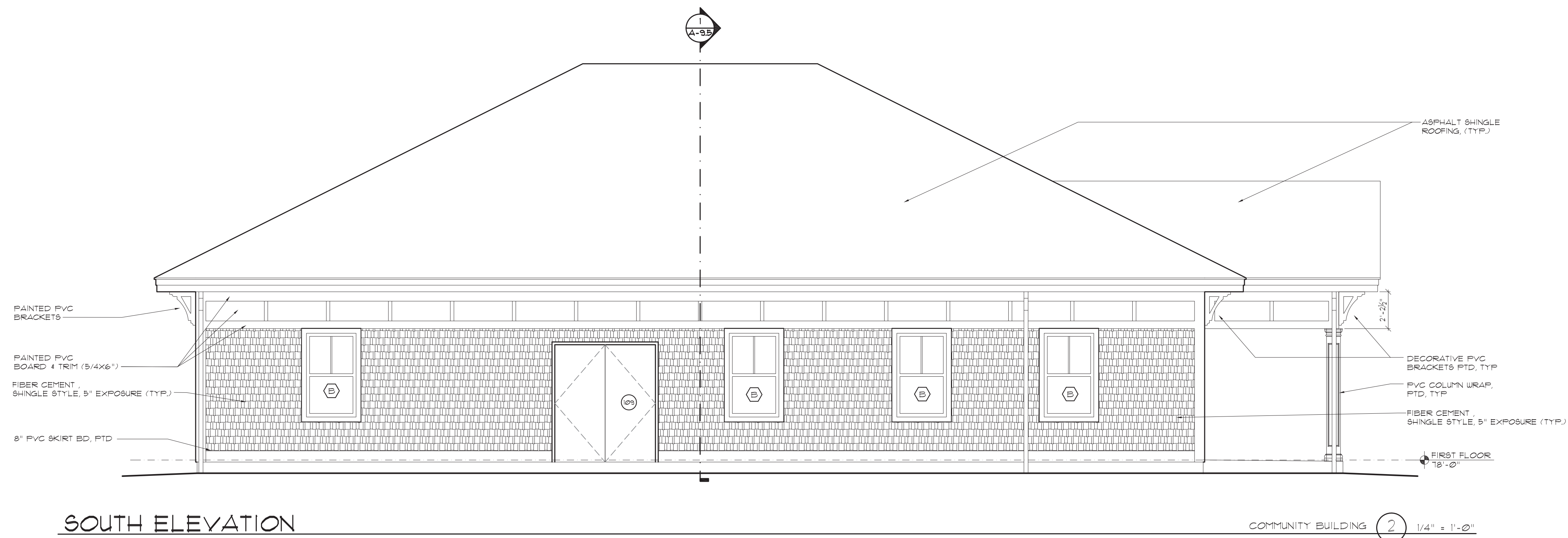
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CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021



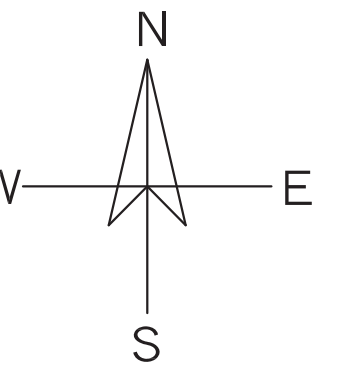
NORTH ELEVATION

COMMUNITY BUILDING 1 1/4" = 1'-0"



SOUTH ELEVATION

COMMUNITY BUILDING 2 1/4" = 1'-0"



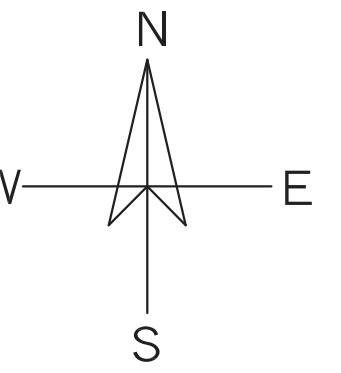
SHEET CONTENTS:  
 Community Building:  
 Exterior Elevations

PROJECT # 1420

DATE: 9/22/2020  
 REVISED DATE:  
 REVISED: 02/16/2021

**A9.3**

CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021



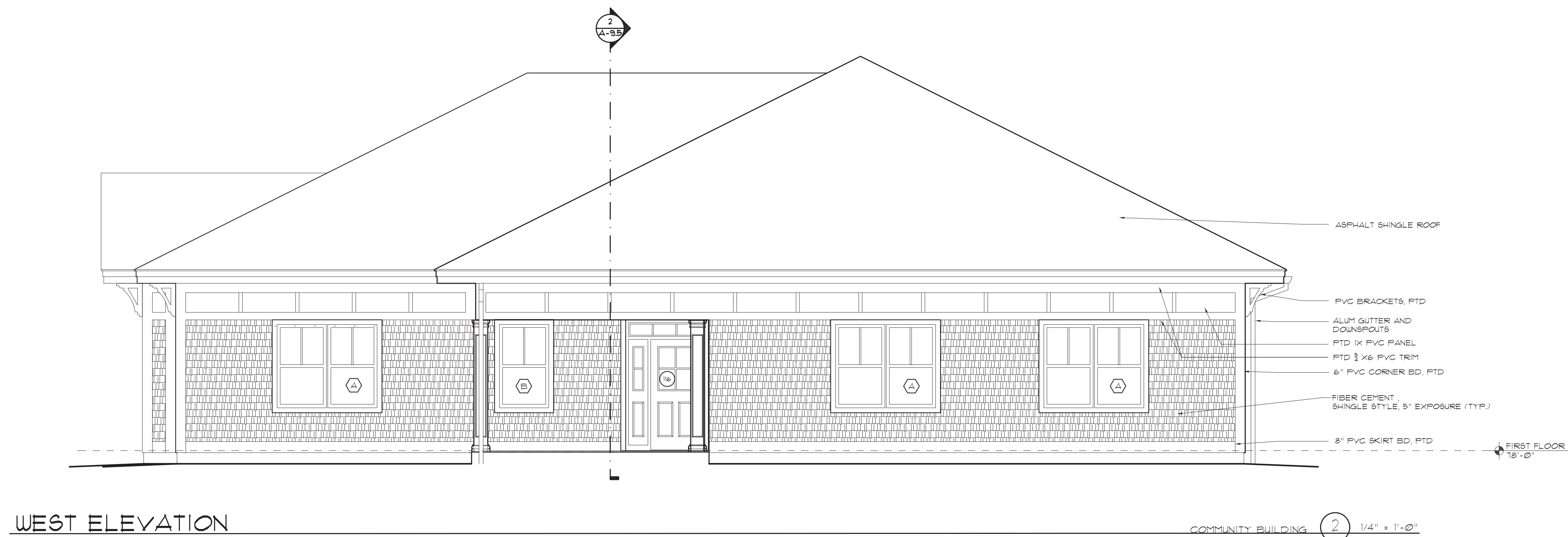
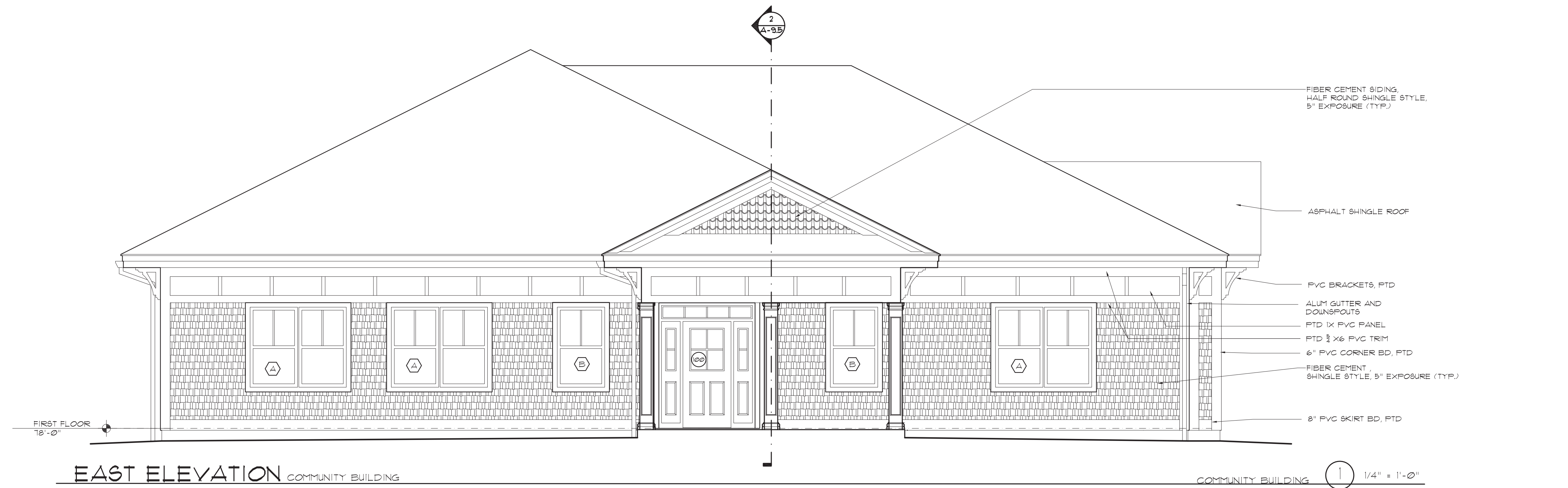
SHEET CONTENTS:  
 Community Building:  
 Exterior Elevations

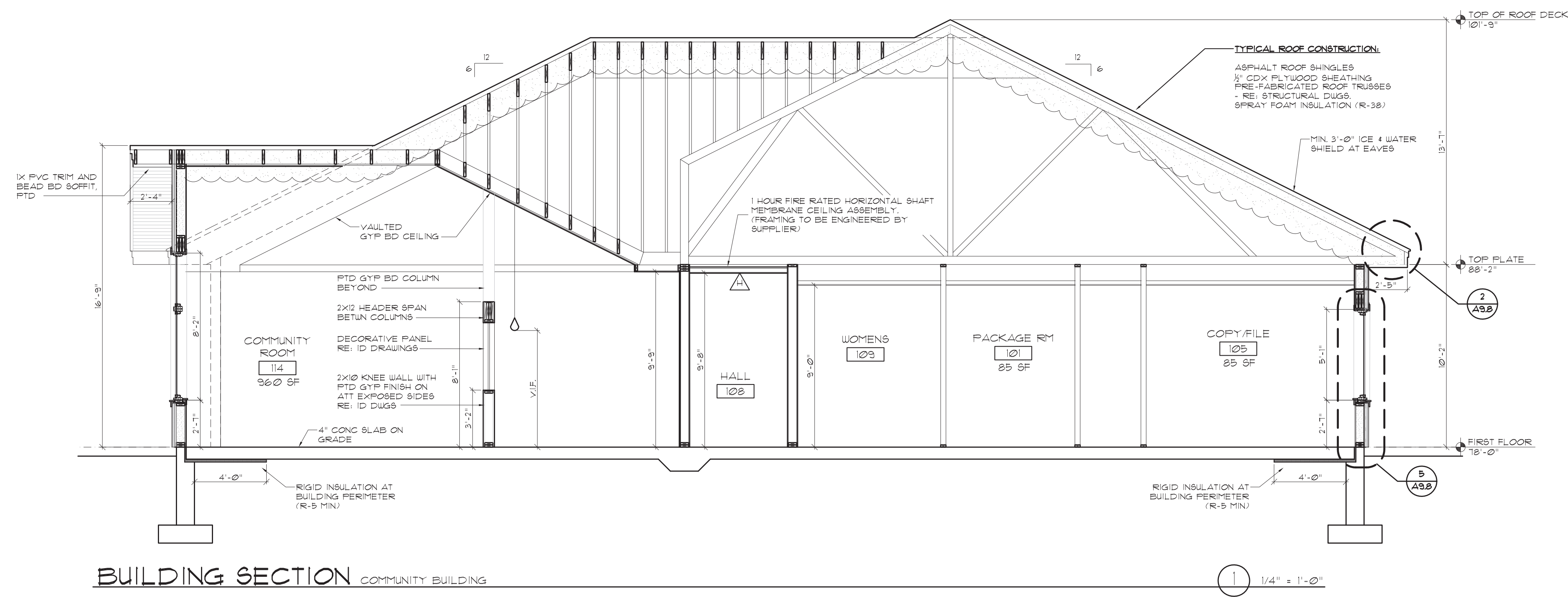
PROJECT # 1420

DATE: 9/22/2020  
 REVISED DATE:  
 △ REVISED: 02/16/2021

**A9.4**

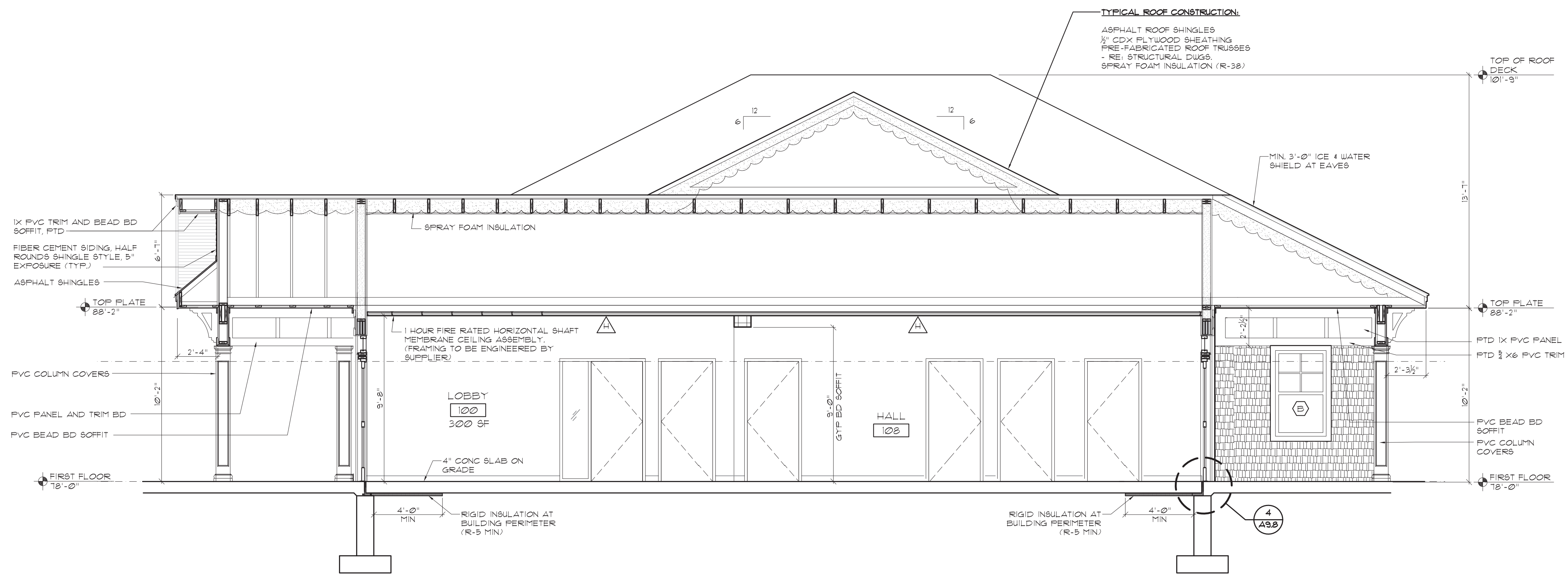
CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021





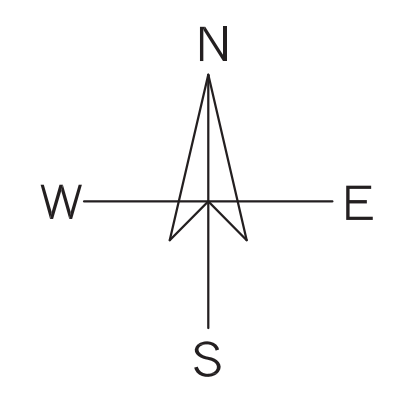
BUILDING SECTION COMMUNITY BUILDING

1 1/4" = 1'-0"



BUILDING SECTION COMMUNITY BUILDING

2 1/4" = 1'-0"



SHEET CONTENTS:  
Community Building:  
Building Sections

PROJECT # 1420  
DATE: 9/22/2020  
REVISED DATE:  
REVISED: 02/16/2021

**A9.5**

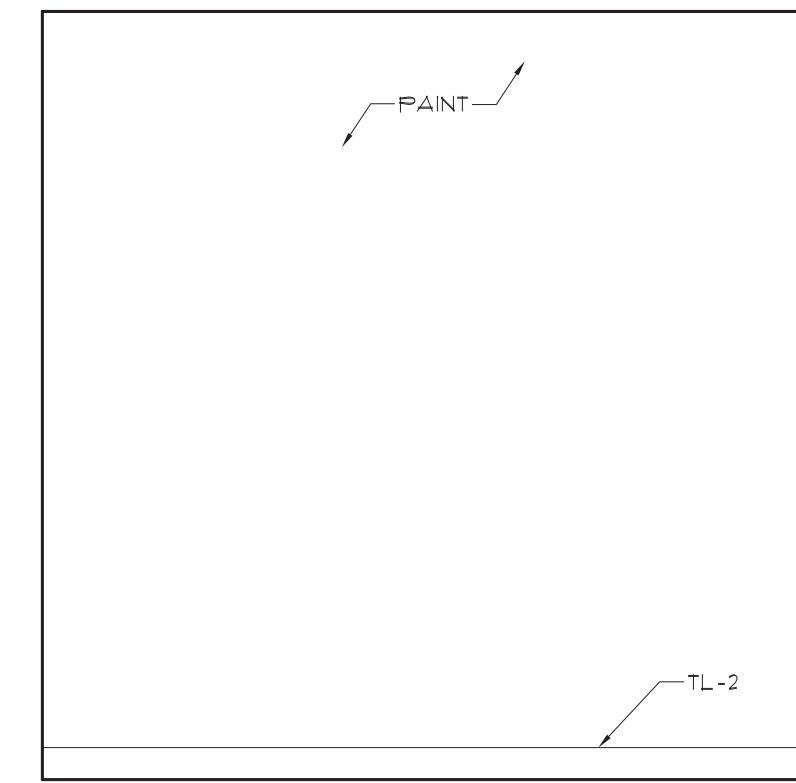
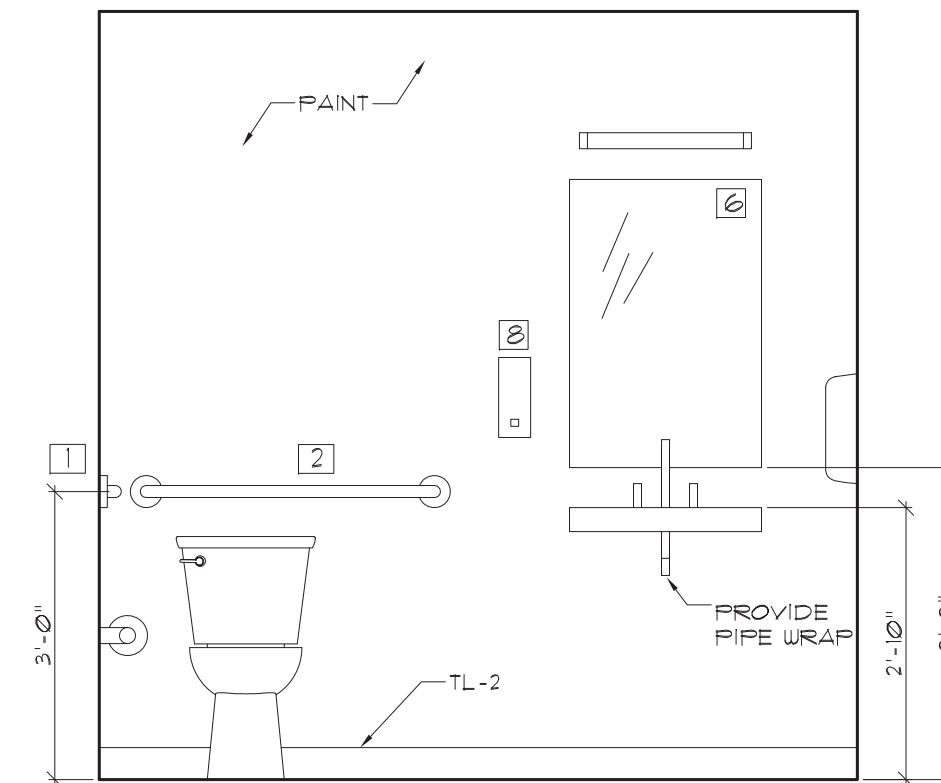
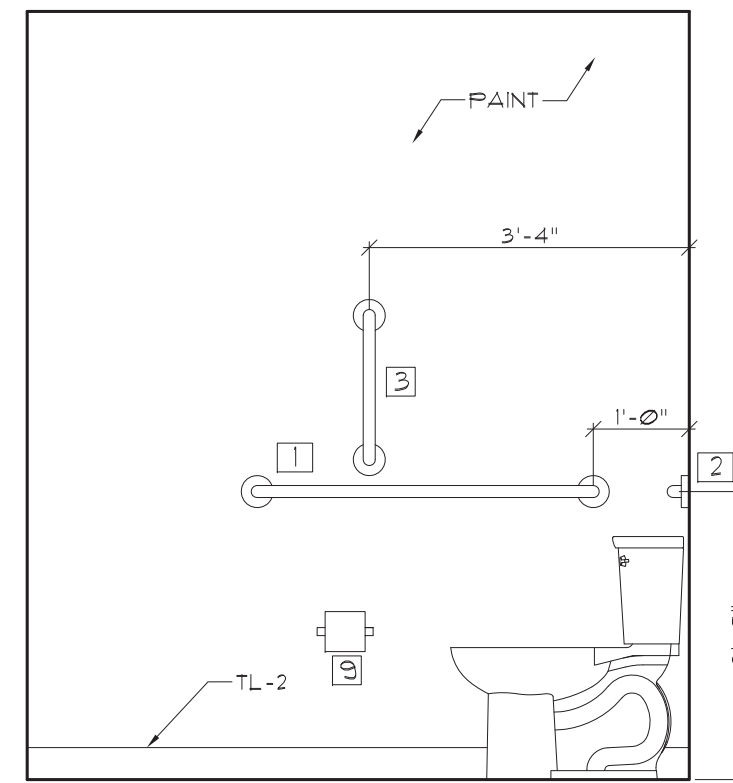
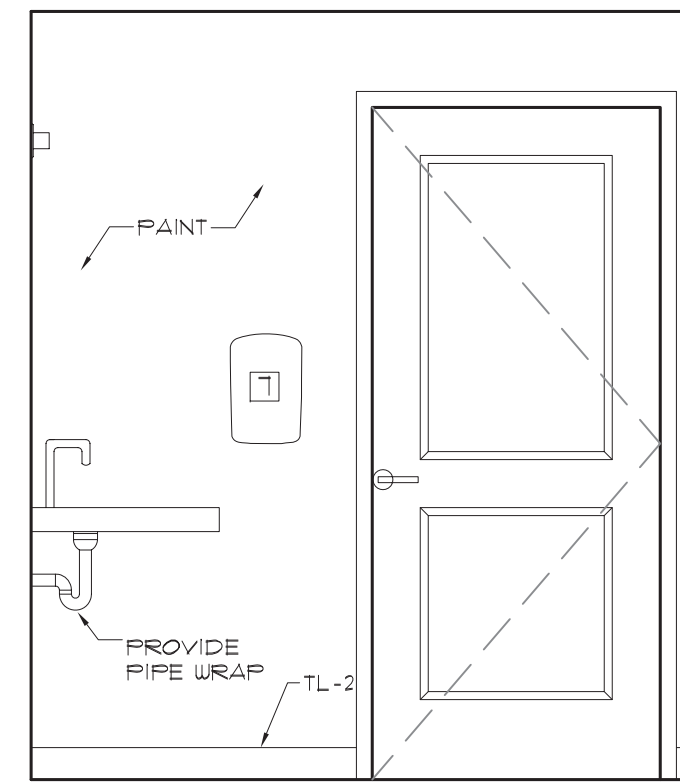
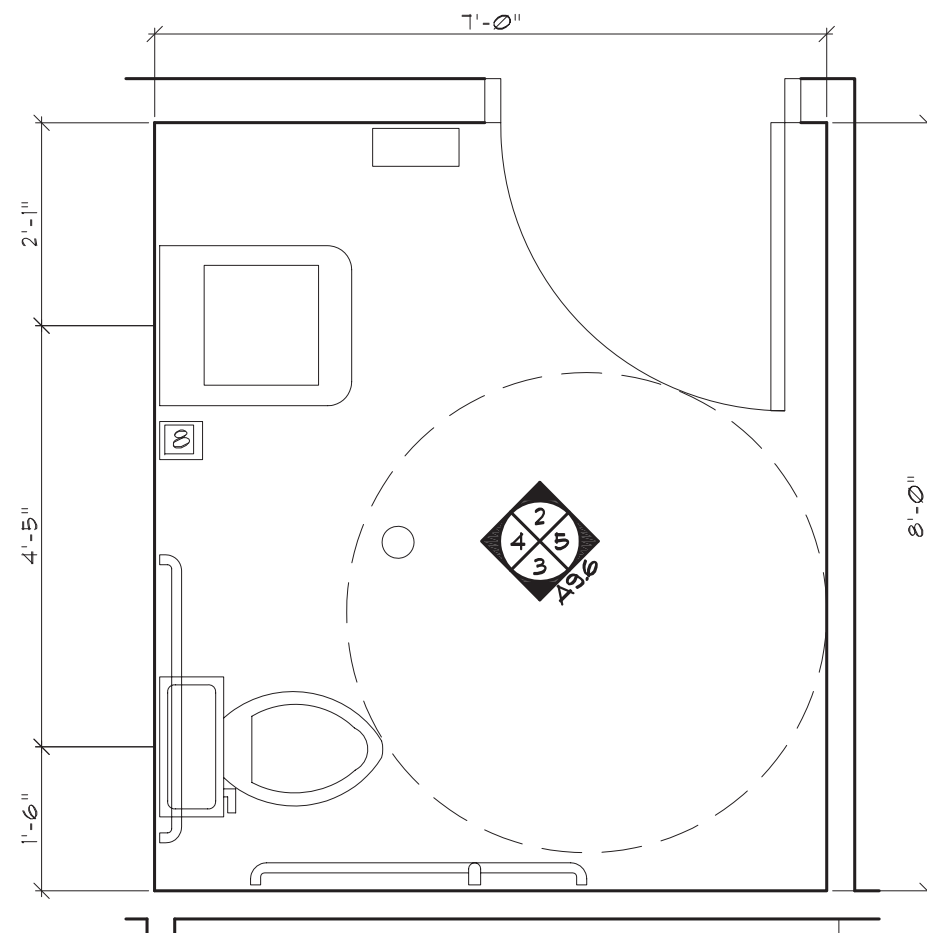
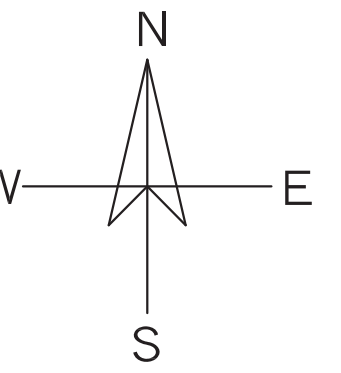
CONSTRUCTION DOCUMENTS - REVISED SET FEBRUARY 16, 2021

**ACCESSORY SCHEDULE**

KEY	TYPE	MANUF.	MODEL #	SIZE (W X H)	COLOR	REMARKS
1	GRAB BAR	BOBRICK OR EQUAL	B-5806-99	42" LONG	N/A	MOUNT @ 33" - 36" ABOVE FLOOR TO BOTTOM OF BAR
2	GRAB BAR	BOBRICK OR EQUAL	B-5806-99	36" LONG	N/A	MOUNT @ 33" - 36" ABOVE FLOOR TO BOTTOM OF BAR
3	GRAB BAR	BOBRICK OR EQUAL	B-5806-99	18" VERTICAL	N/A	MOUNT @ 33" - 41" ABOVE FLOOR TO BOTTOM OF BAR
4	MIRROR	FRAMELESS WITH BEVELED EDGE		66" X 36"		MOUNT @ 42" MAX ABOVE FLOOR TO BOTTOM OF REFLECTIVE SURFACE. MOUNT @ 40" MAX ABOVE FLOOR @ ADA UNITS TO BOTTOM OF REFLECTIVE SURFACE
5	MIRROR	FRAMELESS WITH BEVELED EDGE		48" X 36"		MOUNT @ 42" MAX ABOVE FLOOR TO BOTTOM OF REFLECTIVE SURFACE. MOUNT @ 40" MAX ABOVE FLOOR @ ADA UNITS TO BOTTOM OF REFLECTIVE SURFACE
6	MIRROR	FRAMED		24" X 36"		MOUNT @ 40" MAX ABOVE FLOOR TO BOTTOM OF REFLECTIVE SURFACE
7	ELECTRIC HAND DRYER	EXCEL DRYER	XL-BW-ECO		WHITE	MOUNT @ 48" MAX ABOVE FLOOR TO BOTTOM OF DRYER. PROVIDE ELECTRICAL PER SPECS
8	SOAP DISPENSER					MOUNT @ 48" MAX ABOVE FLOOR TO BOTTOM OF DISPENSER LEVER
9	TOILET PAPER HOLDER	OLYMPIA	TM1032		CHROME	MOUNT @ 15" MIN ABOVE FLOOR
10	SHOWER ROD	OLYMPIA	2102-5PS			MOUNT @ 14" ABOVE FLOOR
11	ROBE HOOK	OLYMPIA	TM1033		CHROME	MOUNT @ 60" ABOVE FLOOR. MOUNT @ 48" MAX ABOVE FLOOR @ ADA UNITS
12	TOWEL BAR	OLYMPIA	TM1030	24" LONG	CHROME	MOUNT @ 42" MAX ABOVE FLOOR
13	TOWEL BAR	OLYMPIA	TM1031	18" LONG	CHROME	MOUNT @ 42" MAX ABOVE FLOOR
14	RECESSED MEDICINE CABINET	WJ WOOD PRODUCTS	FR-224	24" X 14"	WHITE	MOUNT @ 48" MAX ABOVE FLOOR TO BOTTOM OF CABINET

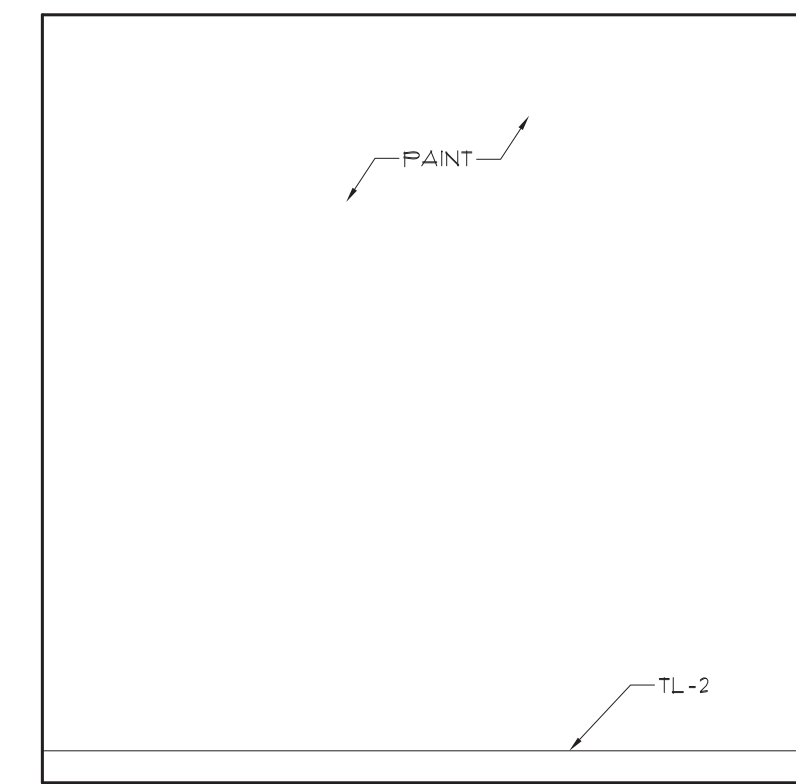
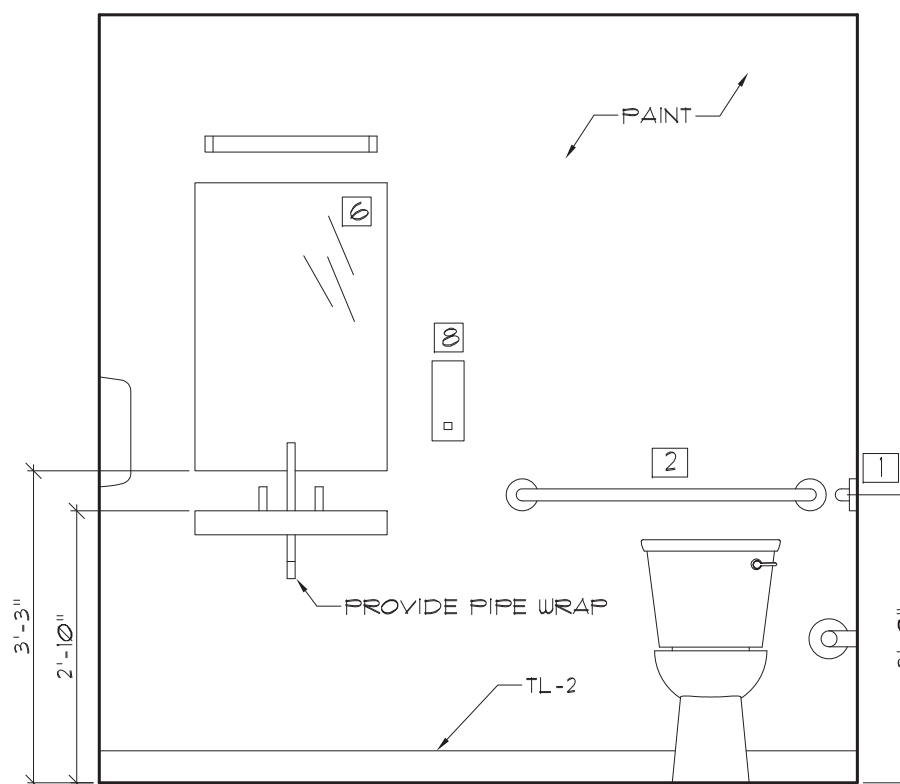
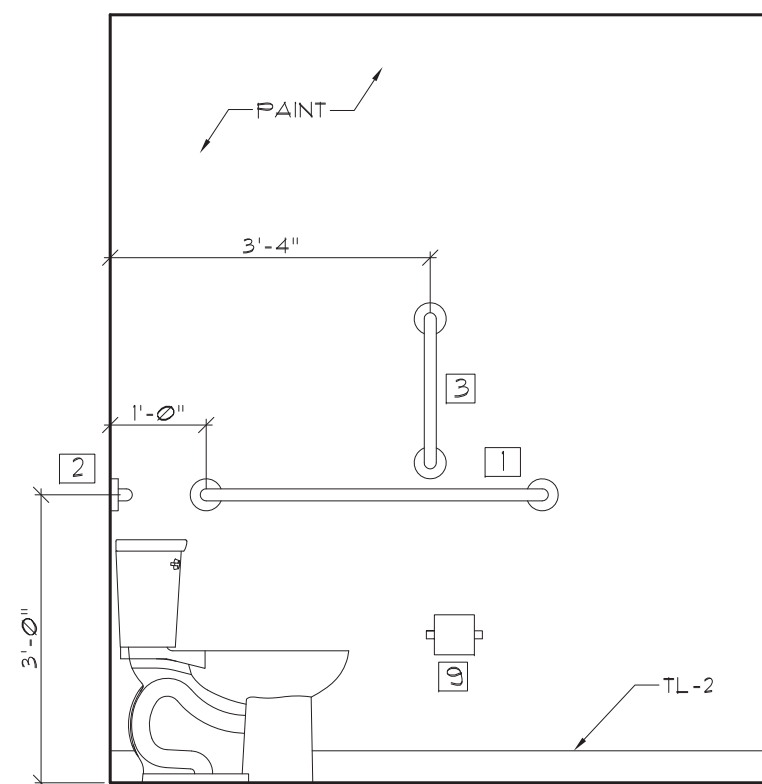
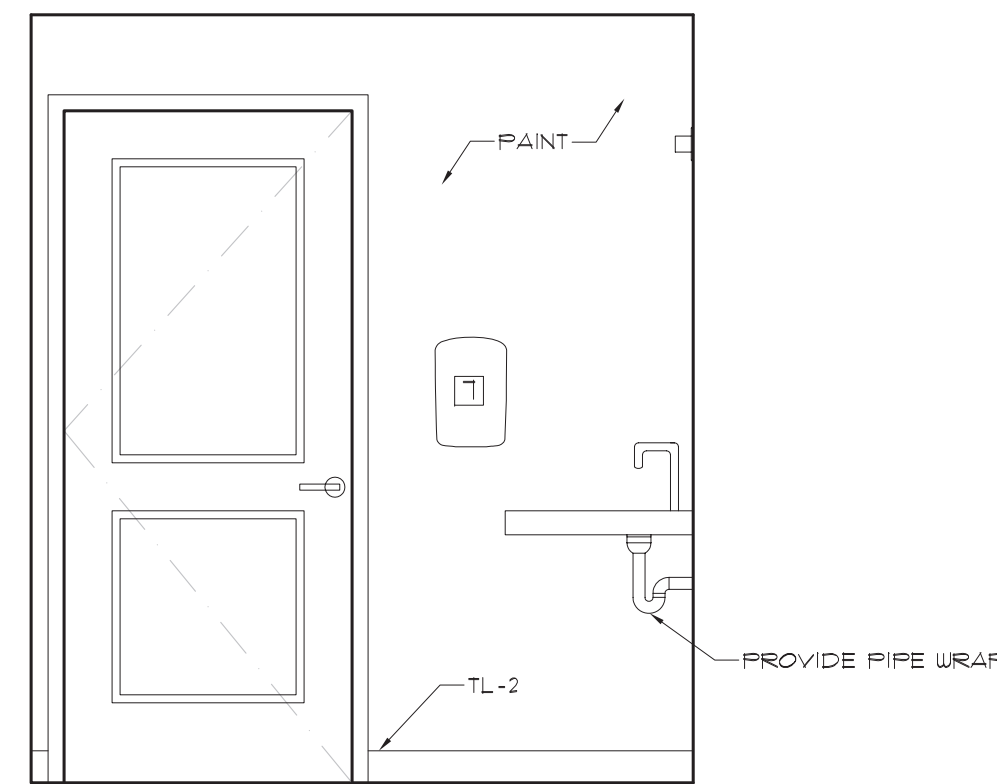
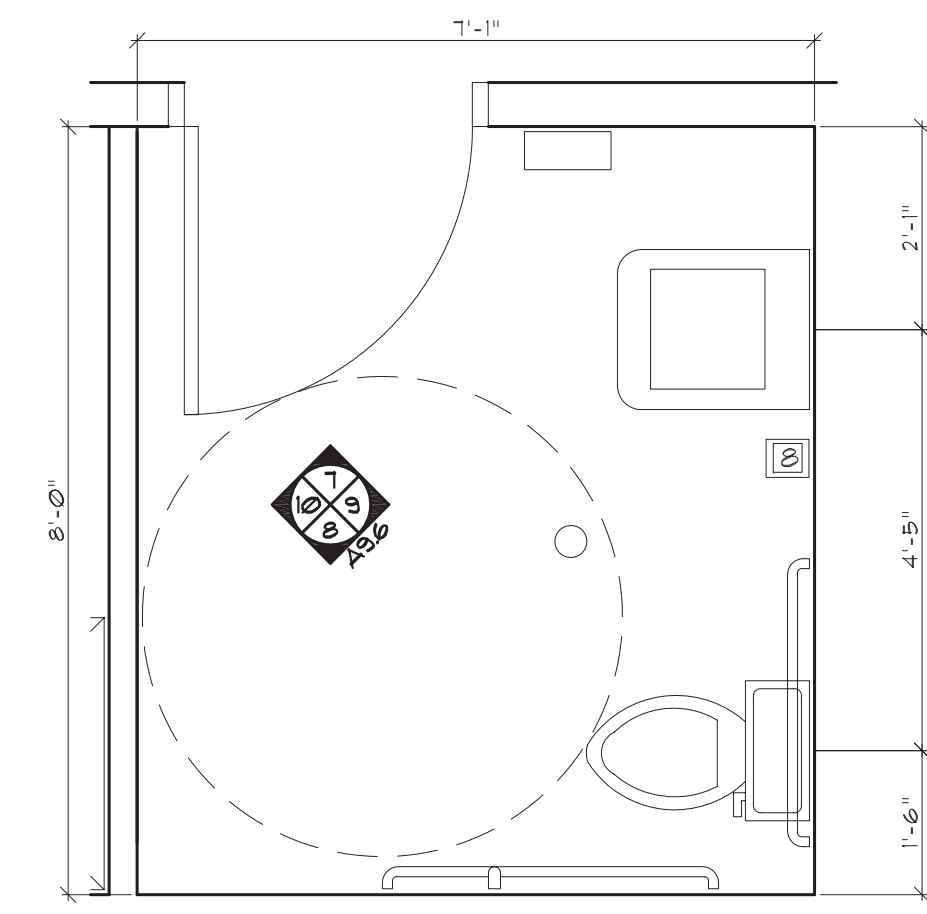
**GENERAL FINISH / DOOR NOTES:**

1. CONTRACTOR TO VERIFY ALL MEASUREMENTS IN FIELD, NOTIFY ARCHITECT OF ANY CONFLICTS.
2. PROVIDE DOOR STOPS & SILENCERS AT ALL DOORS.
3. CAULK ALL FRAMES
4. COORDINATE ALL HARDWARE W/ SECURITY VENDOR & ELECTRICIAN (WHERE REQUIRED)
5. PROVIDE TRANSITION STRIPS AT ALL CHANGES IN FLOORING FINISHES. CHANGE IN LEVEL IN FLOOR SURFACES SHALL NOT EXCEED 1/4" AND SLOPE OF THRESHOLD SHALL NOT BE GREATER THAN 1/2" IN COMPLIANCE WITH THE AMERICAN DISABILITIES ACT.
6. PROVIDE AN ALUMINUM TERMINATION STRIP AT PORCELAIN FLOOR TILE WHERE TRANSITIONING TO DIFFERENT FLOOR FINISH.
7. DO NOT PAINT ALUMINUM DOORS
8. ALL FLOOR FINISHES TO CONTINUE INTO ADJACENT CLOSETS
9. SEAL ALL EXPOSED CONCRETE FLOORS AT MECHANICAL AND CUSTODIAL CLOSETS. INSTALL VINYL WALL BASE (B-1).
10. REFER TO "ID DRAWINGS" FOR ADDITIONAL FINISH INFORMATION AND PAINT COLORS



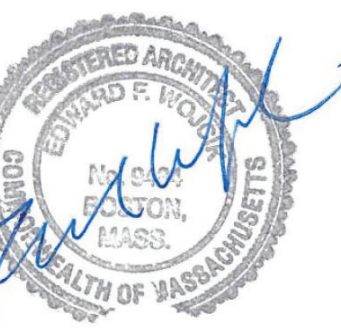
**ENLARGED BATHROOM PLAN (1) BATHROOM ELEVATIONS (2-5)**  
COMMUNITY BUILDING

1/2" = 1'-0"



**ENLARGED BATHROOM PLAN (6) BATHROOM ELEVATIONS (7-10)**  
COMMUNITY BUILDING

1/2" = 1'-0"



SHEET CONTENTS:  
Community Building:  
Interior Elevations

PROJECT # 1420  
DATE: 9/22/2020  
REVISED DATE:  
REVISED: 02/16/2021

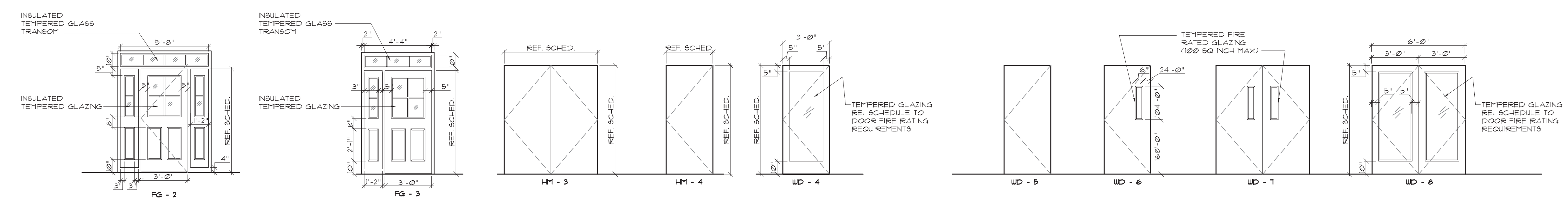
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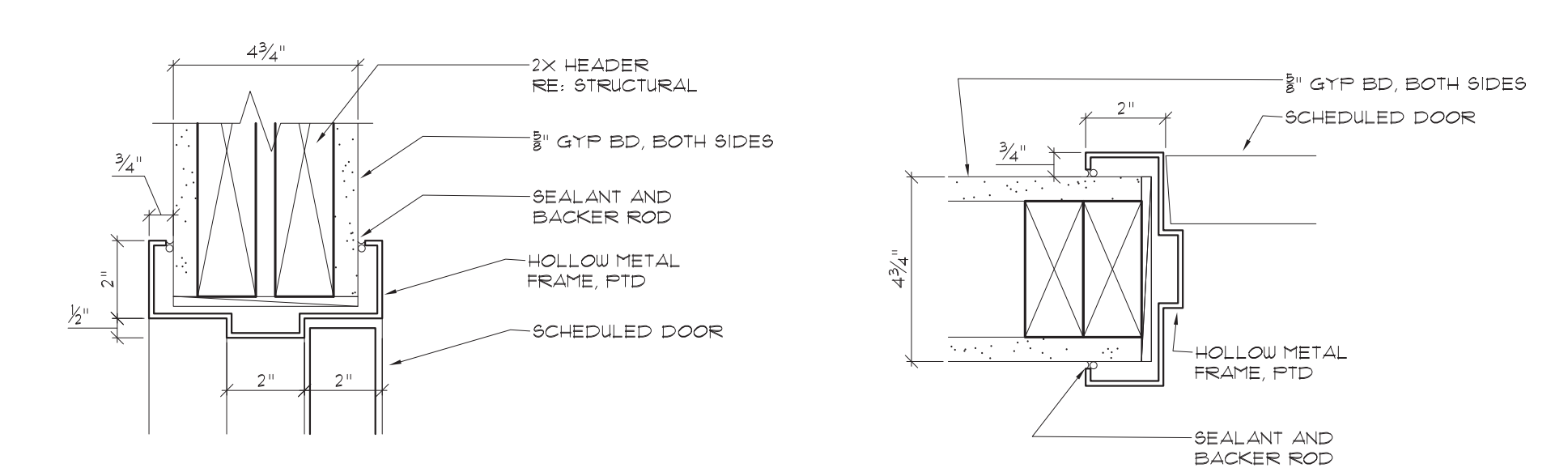
KEY	NAME	MANUFACTURER	MODEL #	SIZE (INCHES) (WxDxH)	REMARKS
(A-15)	ADA REFRIGERATOR	GENERAL ELECTRIC	GTE1G1NR55/ STAINLESS STEEL	20" X 32 1/2" X 65"	
(A-15)	ADA MICROWAVE	GENERAL ELECTRIC	RES722TDL55/ STAINLESS STEEL		

DOOR SCHEDULE - COMMUNITY BUILDING									
KEY	UNIT	LOCATION	DOOR		FRAME		GLAZING	HARDWARE	REMARKS
			TYPE	SIZE (WxH)	RATING	TYPE	RATING		
<b>FIRST FLOOR</b>									
100		ENTRY - LOBBY EXTERIOR	FG-2	3'-0" X 1'-0"		FG-2		PANIC EXIT HARDWARE WITH LEVER LOCKSET (STORAGE FUNCTION), CLOSER, ALUM. THRESHOLD, WEATHERSTRIPPING	1" INSULATED TEMPERED GLAZING. PROVIDE ELECTRIC STRIKE FOR CARD READER
101		PACKAGE ROOM-LOBBY	WD-5	3'-0" X 1'-0"	20 MIN	2	20 MIN	N/A	STORAGE LEVER LOCKSET AND CLOSER
102		OFFICE AREA- LOBBY	WD-5	3'-0" X 1'-0"	20 MIN	3	20 MIN	45 MIN (SIDELIGHT - CERAMIC SAFETY GLAZING)	ENTRANCE LEVER LOCKSET AND CLOSER
103		PACKAGE ROOM- OFFICE AREA	WD-5	3'-0" X 1'-0"		2			STORAGE LEVER LOCKSET
104		OFFICE AREA	WD-4	3'-0" X 1'-0"		2			OFFICE LOCKSET
105		OFFICE AREA	WD-4	3'-0" X 1'-0"		2			OFFICE LOCKSET
106		COPY/ FILE	WD-4	3'-0" X 1'-0"		2			STORAGE LOCKSET
107		MAINTENANCE-OFFICE AREA	HM-4	3'-0" X 1'-0"		2			STORAGE LEVER LOCKSET AND CLOSER
108		MECHANICAL	HM-4	3'-0" X 1'-0"		2			STORAGE LOCKSET AND CLOSER
109		ENTRY- MAINTENANCE	HM-3	6'-0" X 1'-0" PAIR		2			STORAGE LEVER LOCKSET CLOSER, ALUM. THRESHOLD, WEATHERSTRIPPING
110		STORAGE	WD-3	6'-0" X 1'-0" PAIR		2			STORAGE LEVER LOCKSET
		NOT USED							
112		WOMEN	WD-2	3'-0" X 1'-0"	20 MIN	2	20 MIN		PRIVACY LEVER LOCKSET, MARBLE THRESHOLD
113		MENS	WD-2	3'-0" X 1'-0"	20 MIN	2	20 MIN		PRIVACY LEVER LOCKSET, MARBLE THRESHOLD
114		CUSTODIAN/ UTILITIES	WD-2	3'-0" X 1'-0"	20 MIN	2	20 MIN		STORAGE LEVER LOCKSET
115		FITNESS CENTER	WD-4	3'-0" X 1'-0"	20 MIN	2	20 MIN	45 MIN	ENTRANCE LEVER LOCKSET
116		REAR ENTRY- HALL	FG-3	3'-0" X 1'-0"		2			PANIC EXIT HARDWARE WITH LEVER LOCKSET (STORAGE FUNCTION), CLOSER, ALUM. THRESHOLD, WEATHERSTRIPPING
117		COMMUNITY ROOM- HALL	WD-5	3'-0" X 1'-0"	20 MIN	3	20 MIN	45 MIN (SIDELIGHT - CERAMIC SAFETY GLAZING)	FIRE EXIT HARDWARE W/ LEVER LOCKSET
118		STORAGE	WD-2	3'-0" X 1'-0"		2			STORAGE LEVER LOCKSET
119		COMMUNITY ROOM - LOBBY	WD-8	6'-0" X 1'-0" PAIR	20 MIN	2	20 MIN	45 MIN	FIRE EXIT HARDWARE W/ LEVER LOCKSET

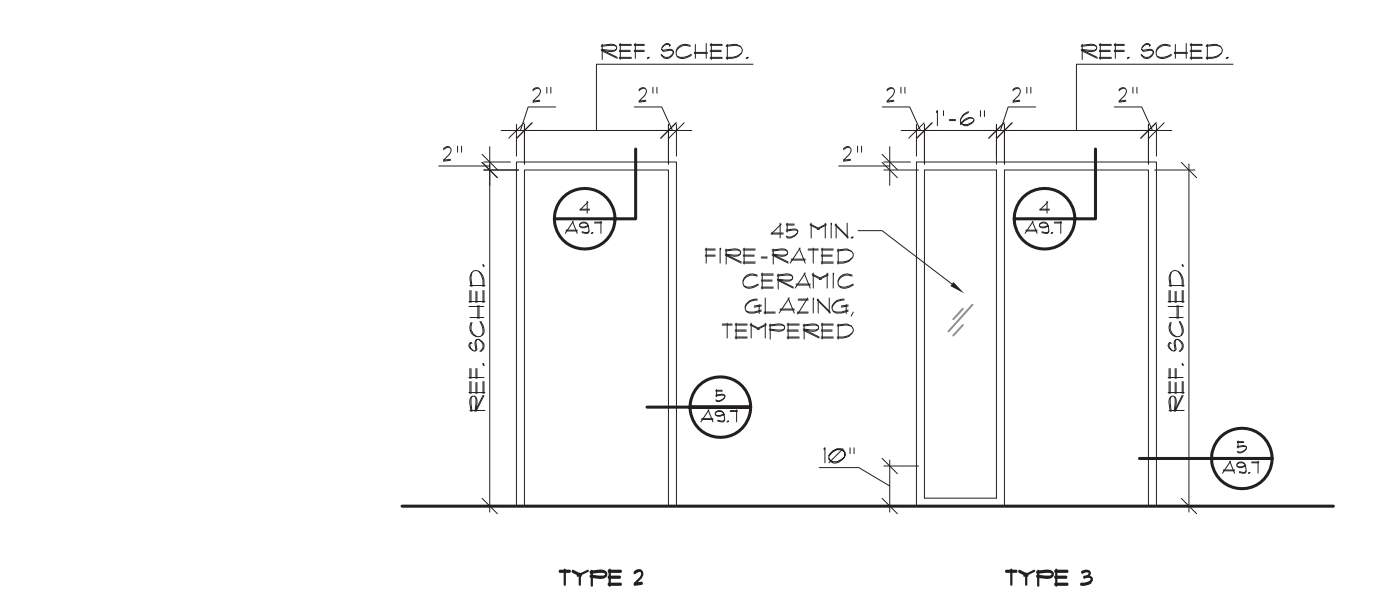
- GENERAL FINISH / DOOR NOTES:
- CONTRACTOR TO VERIFY ALL MEASUREMENTS IN FIELD, NOTIFY ARCHITECT OF ANY CONFLICTS.
  - PROVIDE DOOR STOPS & SILENCERS AT ALL DOORS.
  - CAULK ALL FRAMES.
  - COORDINATE ALL HARDWARE W/ SECURITY VENDOR & ELECTRICIAN (WHERE REQUIRED).
  - PROVIDE TRANSITION STRIPS AT ALL CHANGES IN FLOORING FINISHES. CHANGE IN LEVEL IN FLOOR SURFACES SHALL NOT EXCEED 1/4" AND SLOPE OF THRESHOLD SHALL NOT BE GREATER THAN 1/2" IN COMPLIANCE WITH THE AMERICAN DISABILITIES ACT.
  - PROVIDE AN ALUMINUM TERMINATION STRIP AT PORCELAIN FLOOR TILE WHERE TRANSITIONING TO DIFFERENT FLOOR FINISH.
  - DO NOT PAINT ALUMINUM DOORS.
  - ALL FLOOR FINISHES TO CONTINUE INTO ADJACENT CLOSETS. INSTALL VINYL WALL BASE (B-1).
  - SEAL ALL EXPOSED CONCRETE FLOORS AT MECHANICAL AND CUSTODIAL CLOSETS. INSTALL VINYL WALL BASE (B-1).
  - REFER TO '10 DRAWINGS' FOR ADDITIONAL FINISH INFORMATION AND PAINT COLORS.



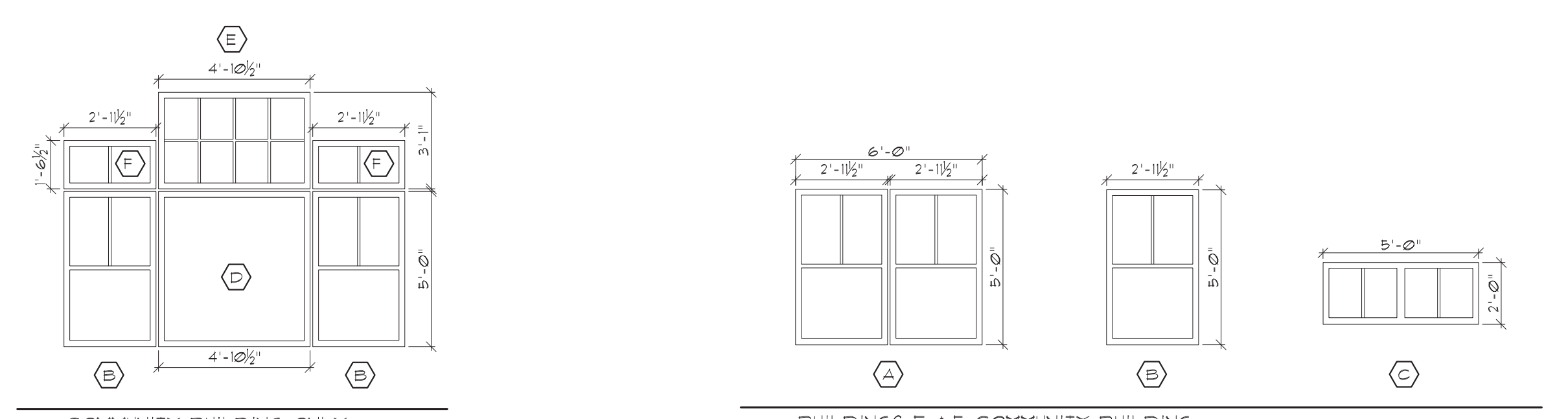
DOOR TYPES COMMUNITY BUILDING



HEAD DETAILS 4 3' x 1'-0" JAMB DETAILS 5 3' x 1'-0"



FRAME TYPES 6 NTS

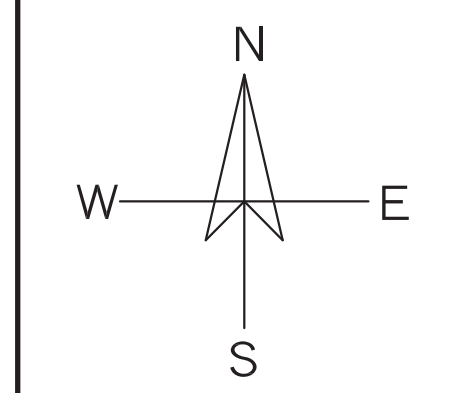


WINDOW TYPES 4 1/4" x 1'-0"

WINDOW SCHEDULE						
KEY	TYPE	DESCRIPTION	MANUF.	MODEL #	RO. SIZE (WxH)	REMARKS
A	DOUBLE TILT / TURN VINYL CASEMENT	TRIPLE GLAZED; BALANCE & PH PLUS TGT	ALFEN	TYROL SERIES; TR-6	6'-0" X 5'-0"	WITH NAILING FLANGE, 3 1/2" FLAT CASING, REF. DETAILS
B	SINGLE TILT / TURN VINYL CASEMENT	TRIPLE GLAZED; BALANCE & PH PLUS TGT	ALFEN	TYROL SERIES; TR-6	2'-11 1/2" X 5'-0"	WITH NAILING FLANGE, 3 1/2" FLAT CASING, REF. DETAILS
C	DOUBLE VINYL FIXED	TRIPLE GLAZED; BALANCE & PH PLUS TGT, TEMPERED GLAZING	ALFEN	TYROL SERIES; TR-6	5'-0" X 2'-0"	WITH NAILING FLANGE, 3 1/2" FLAT CASING, REF. DETAILS
D	VINYL PICTURE	TRIPLE GLAZED; BALANCE & PH PLUS TGT, TEMPERED GLAZING	ALFEN	TYROL SERIES; TR-6	4'-10 1/2" X 5'-0"	WITH NAILING FLANGE, 3 1/2" FLAT CASING, REF. DETAILS
E	VINYL FIXED TRANSOM	TRIPLE GLAZED; BALANCE & PH PLUS TGT	ALFEN	TYROL SERIES; TR-6	4'-10 1/2" X 3'-1 1/2"	3 1/2" FLAT CASING, REF. DETAILS
F	VINYL FIXED TRANSOM	TRIPLE GLAZED; BALANCE & PH PLUS TGT	ALFEN	TYROL SERIES; TR-6	2'-11 1/2" X 1'-6 1/2"	3 1/2" FLAT CASING, REF. DETAILS
G	INTERIOR WINDOW FIXED FRAMELESS GLASS	1/4" TEMPERED FRAMELESS GLASS	CRL			REF. 10 DRAWINGS

- NOTES:
- CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS
  - PROVIDE SCREENS AT ALL OPERABLE WINDOWS
  - PROVIDE BLINDS AT ALL WINDOWS INSIDE UNITS
  - CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WEATHER TIGHTNESS AND SECURITY OF BUILDINGS AT ALL TIMES
  - PROVIDE WINDOW CONTROL OPENING DEVICE AT ALL WINDOWS, TYPICAL

**Ed Wojcik**  
architect, ltd  
One Richmond Square  
Providence, RI 02906  
401-861-7139



Proposed Design for:  
**Woodland Cove**  
**Phase 1**  
Buildings E, F, & COMMUNITY BUILDING  
3102 Cranberry Highway  
Wareham, MA 02532

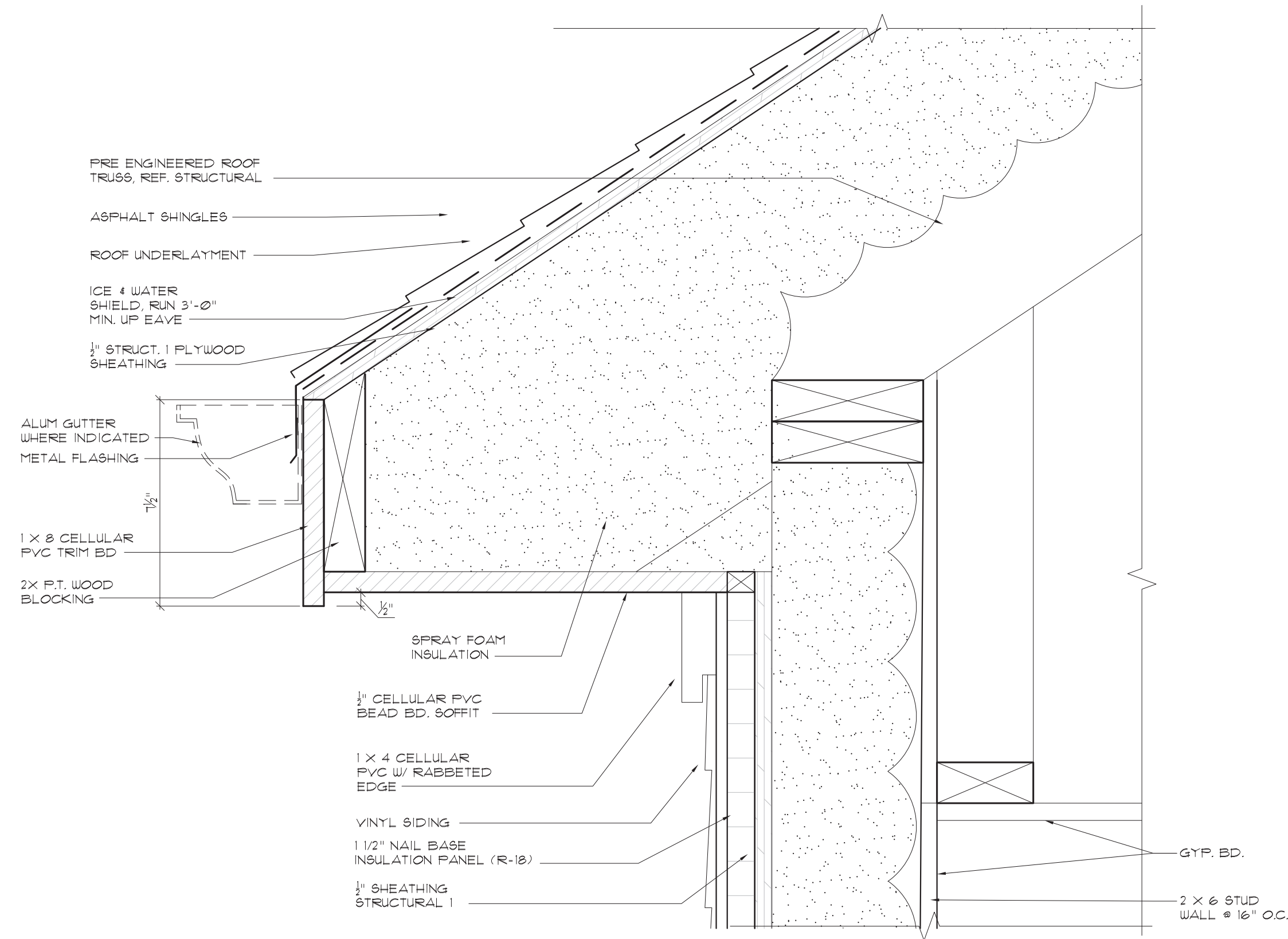


SHEET CONTENTS:  
Community Building:  
Door & Window Schedules

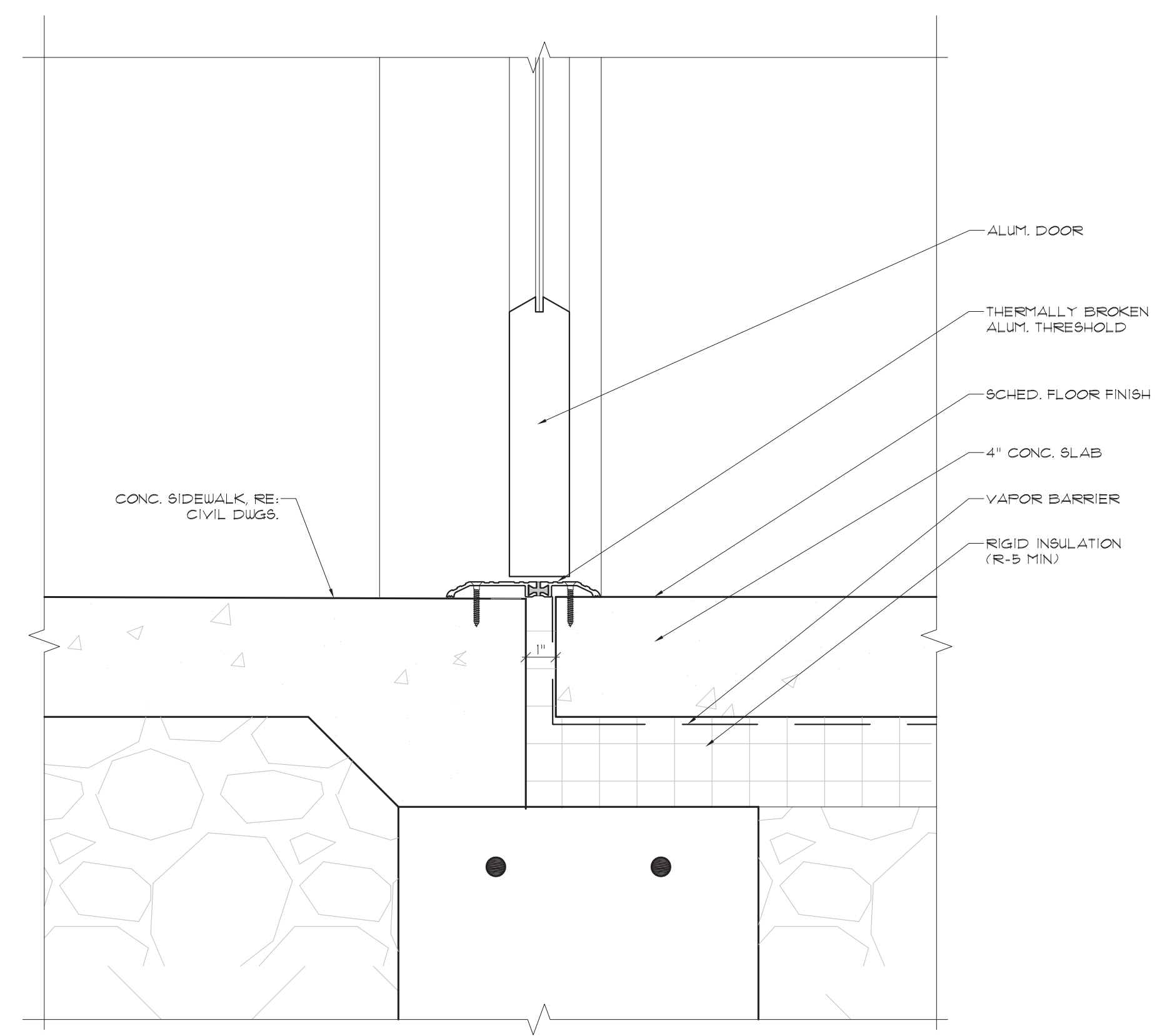
PROJECT # 1420  
DATE: 9/22/2020  
REVISED DATE:  
REVISED: 02/16/2021

**A9.7**

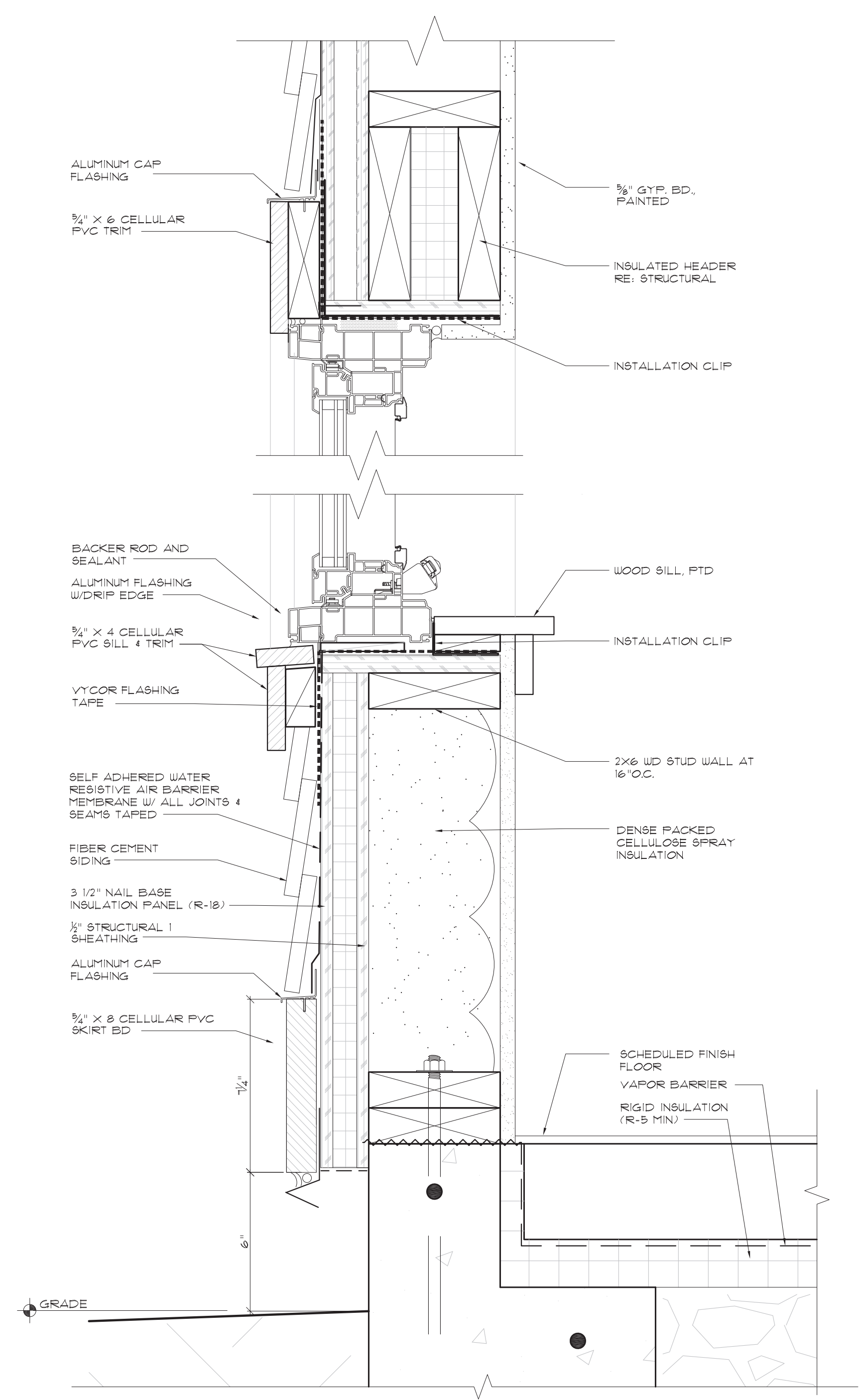
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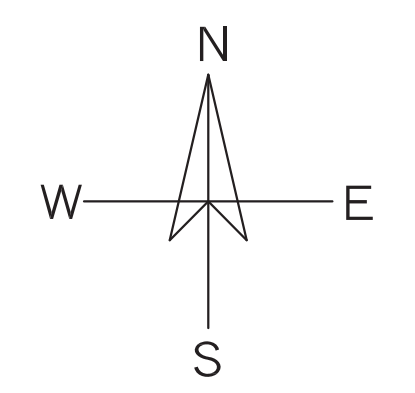
**SECTION DETAIL**  
TYPICAL ROOF EAVE 2 3" = 1'-0"



**SECTION DETAIL**  
THRESHOLD DETAIL 4 3" = 1'-0"



**SECTION DETAIL**  
TYPICAL WALL SECTION 5 3" = 1'-0"



**SHEET CONTENTS:**  
Community Building:  
Finish Schedules

PROJECT # 1420  
DATE: 9/22/2020  
REVISED DATE:  
REVISED: 02/16/2021

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**GENERAL NOTES**

The drawings are generally diagrammatic and are intended to convey the scope of work and indicate general arrangement of equipment. The locations of all indicated items that are not fixed by dimension are approximate only.

Maintain maximum space conditions at all points. Where space conditions appear inadequate, notify the Architect before proceeding with the installation.

Coordinate the exact location of all materials with the work of other trades and with the existing conditions prior to installation.

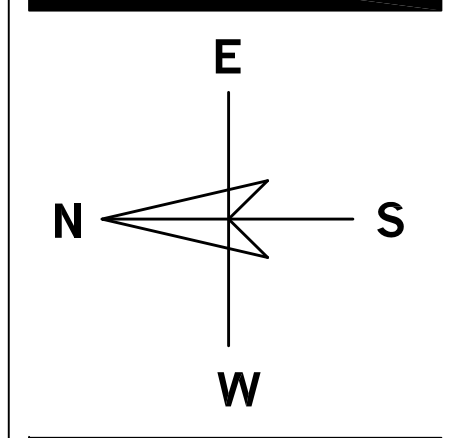
All materials to be removed shall be removed from the project site in their entirety, including all hangers, supports and appurtenances.

The piping layout as indicated is schematic and diagrammatic in scope and is not intended to show all offsets which may be required. The exact pipe route shall be field coordinated.

Refer to Architectural Reflected Ceiling Plans and Interior Elevations for the exact location of registers and diffusers.

All system shut-downs shall be with prior approval of the Architect and Owner. Interruptions to services shall be scheduled to minimize down time.

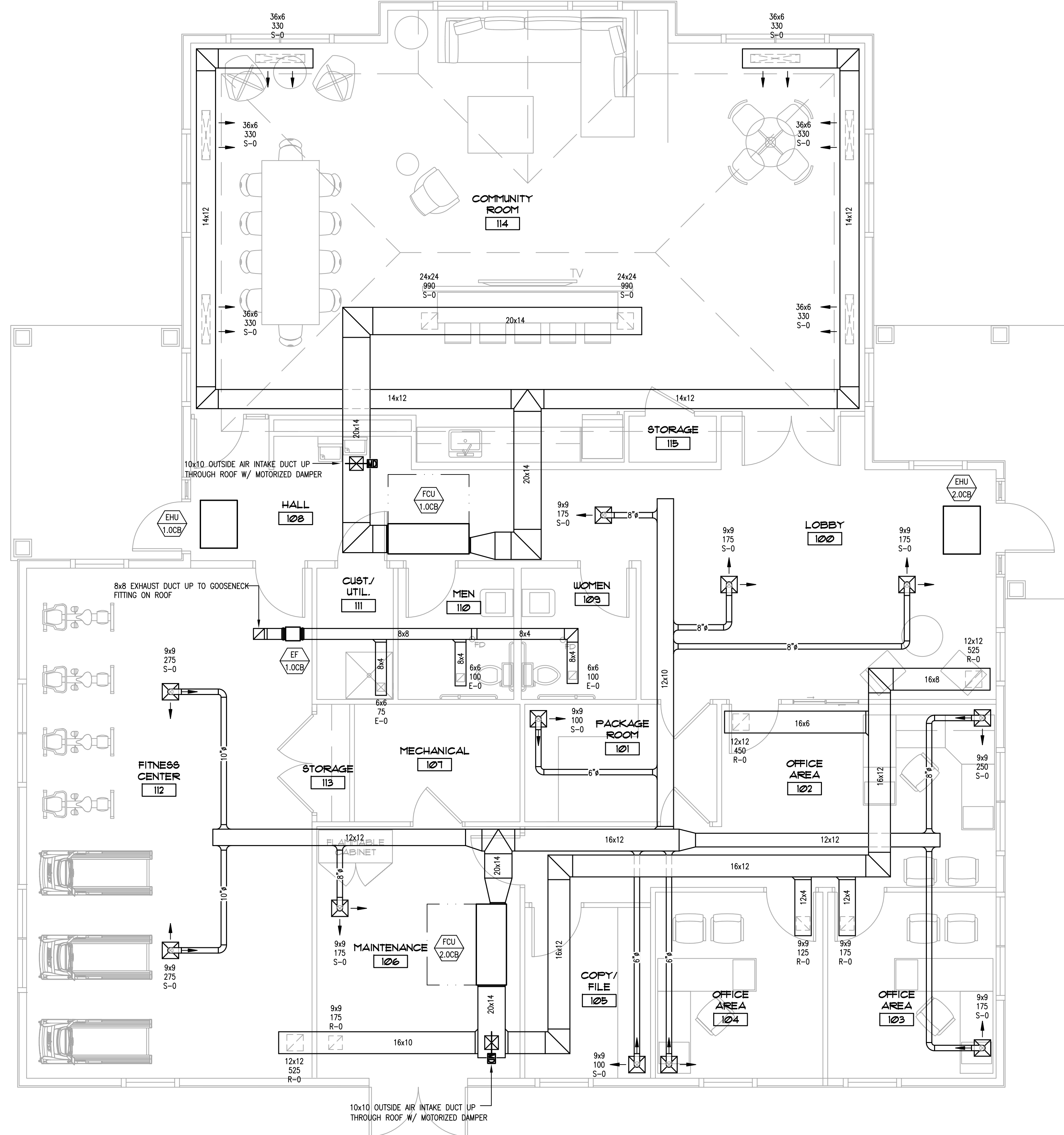
Refer to the PROJECT SPECIFICATION for additional requirements.



SHEET CONTENTS:  
MECHANICAL:  
COMMUNITY BUILDING  
FLOOR PLANS

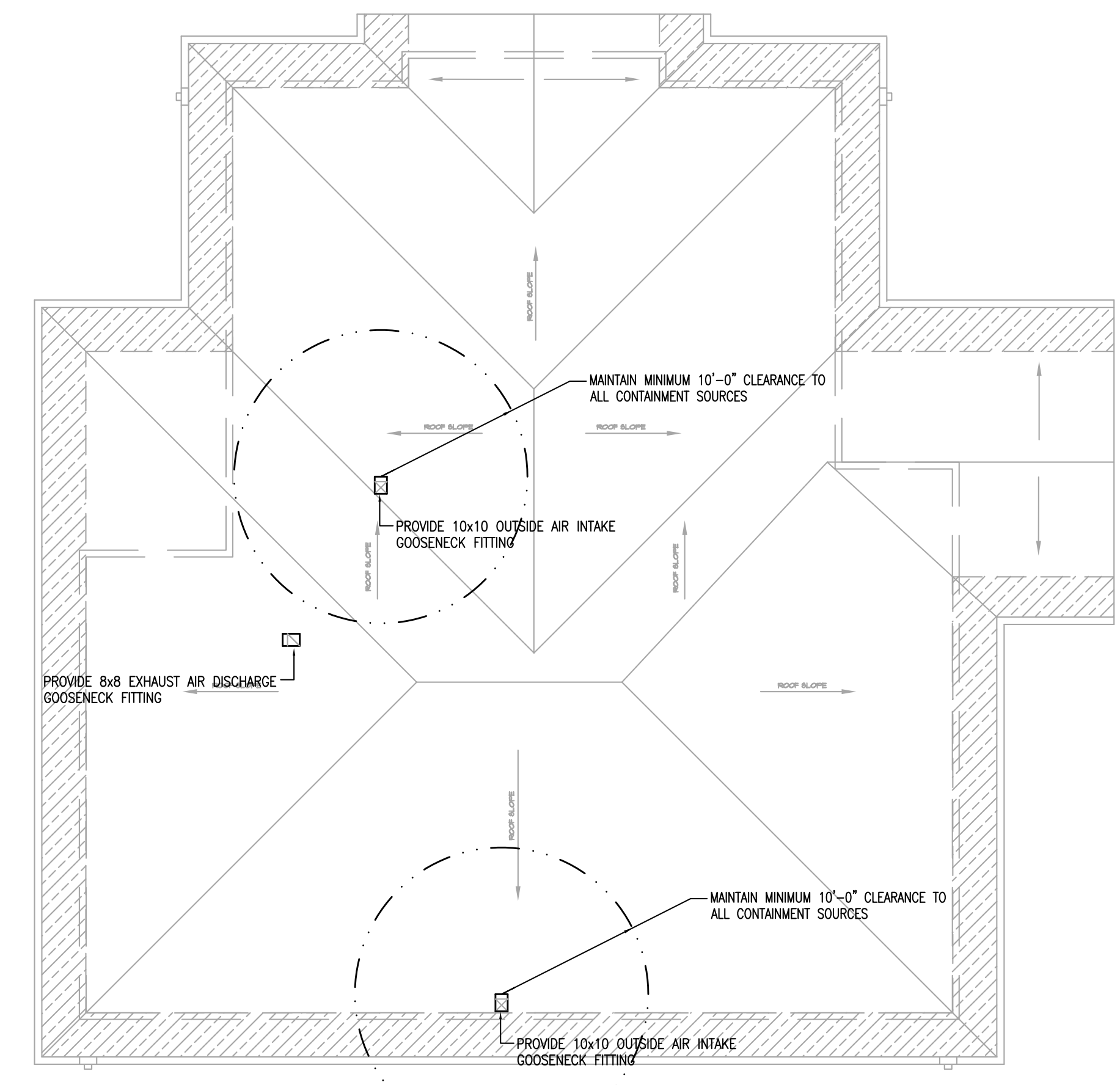
PROJECT # 1420  
DATE: 9/22/2020  
REVISED DATE:  
REVISED: 02/16/2021

**M9.0**

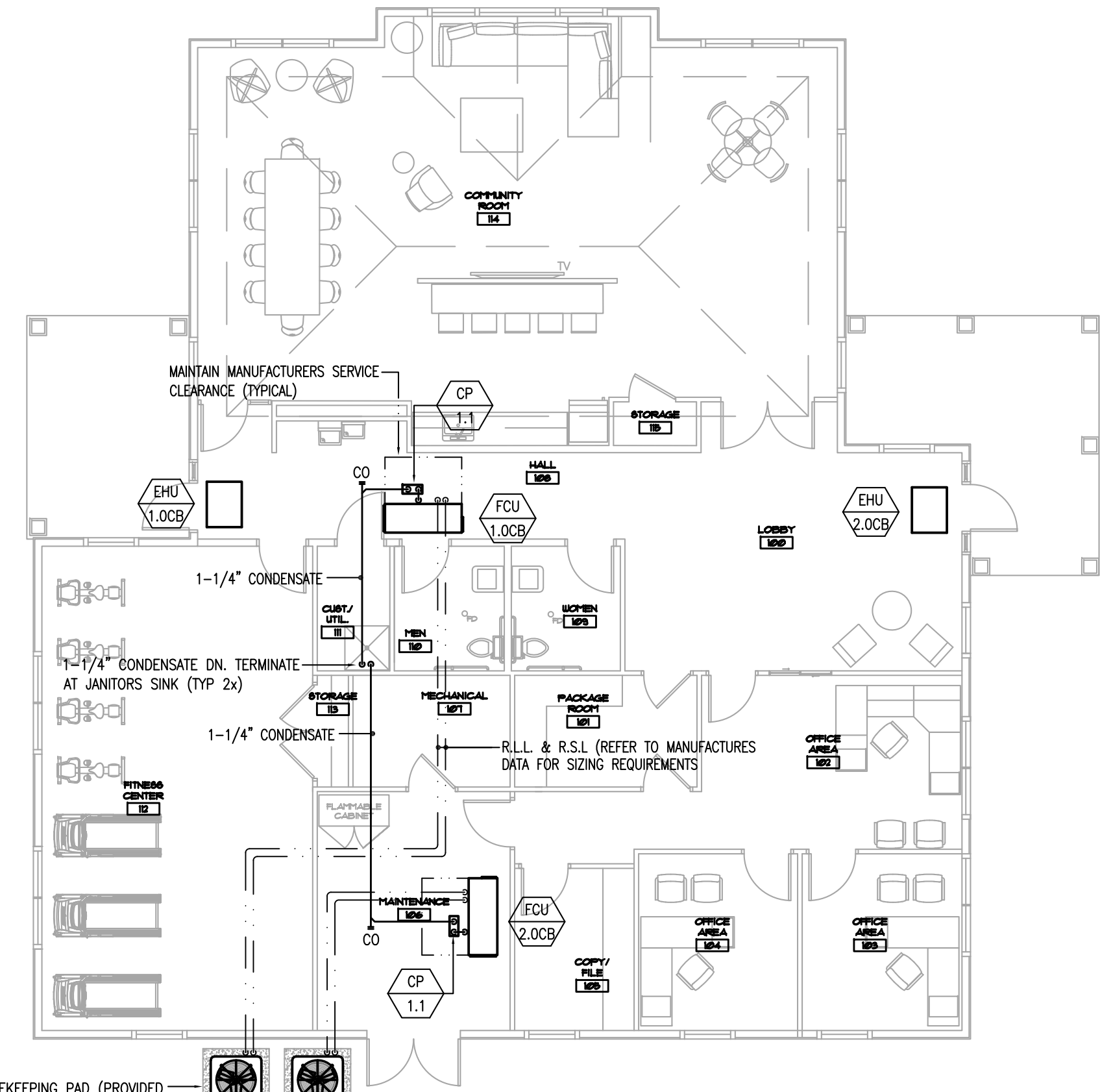


**1** COMMUNITY BUILDING FLOOR PLAN - DUCTWORK  
M9.0 SCALE: 1/4"=1'-0"

**NOTES**  
REFER TO THE ORIGINAL CONSTRUCTION DRAWINGS & SPECIFICATIONS FOR APPLICABLE GENERAL DETAILS, GENERAL PRODUCT/EQUIPMENT SPECIFICATIONS & CONSTRUCTION MEANS/METHODS.



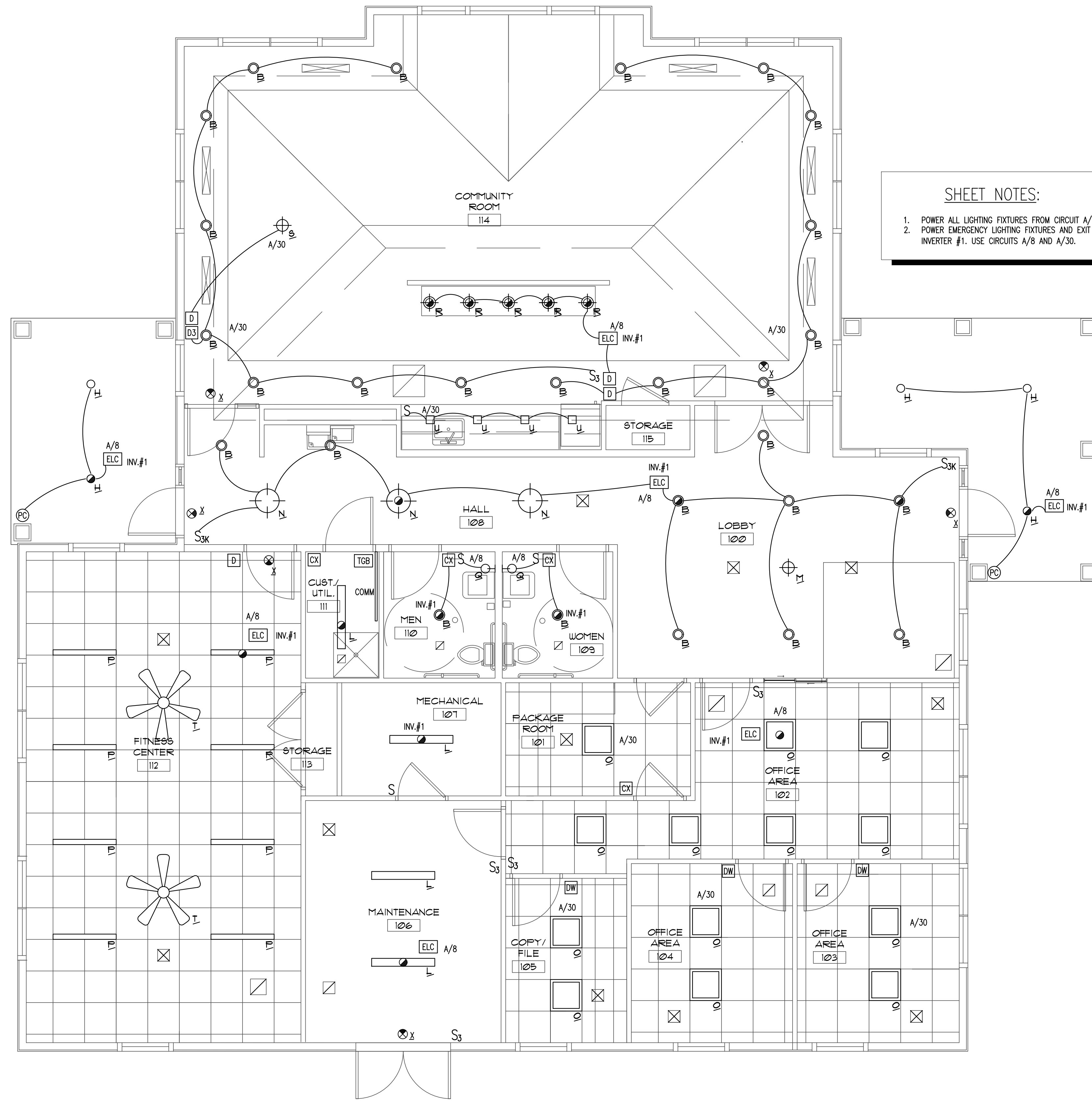
**3** COMMUNITY BUILDING ROOF PLAN - DUCTWORK  
M9.0 SCALE: 1/8"=1'-0"



**2** COMMUNITY BUILDING FLOOR PLAN - PIPING  
M9.0 SCALE: 1/8"=1'-0"

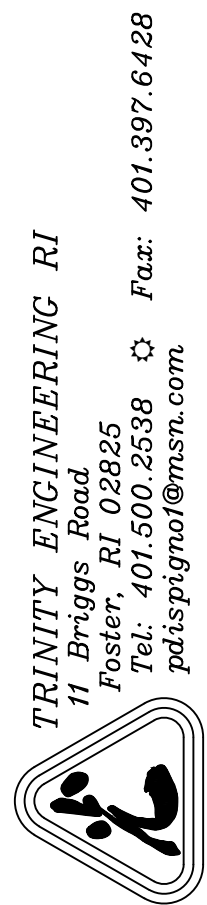
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**SHEET NOTES:**

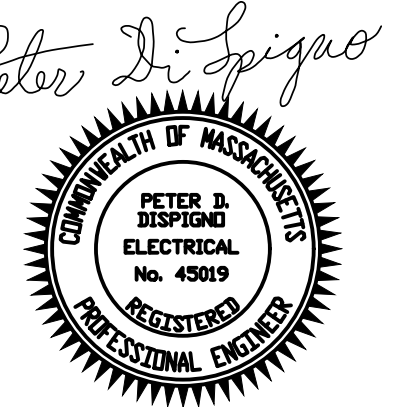
1. POWER ALL LIGHTING FIXTURES FROM CIRCUIT A/8.
2. POWER EMERGENCY LIGHTING FIXTURES AND EXIT SIGNS FROM INVERTER #1. USE CIRCUITS A/8 AND A/30.



TRINITY ENGINEERING RI  
11 Briggs Road  
Providence, RI 02905  
Tel: 401.500.2538 • Fax: 401.397.6428  
pdavis@trinityeng.com

**Ed Wojcik**  
architect, ltd  
One Richmond Square  
Providence, RI 02906  
401-861-7139

Proposed Design for:  
**Woodland Cove**  
**Phase I**  
Buildings E, F, & COMMUNITY BUILDING  
3102 Cranberry Highway  
Wareham, MA 02532



SHEET CONTENTS:

Community Building  
Lighting Plan:  
Proposed

PROJECT # 1420  
DATE: 9/22/2020  
REVISED DATE:  
△ REVISED: 02/16/2021

**E9.1**

CONSTRUCTION DOCUMENTS — REVISED SET FEBRUARY 16, 2021

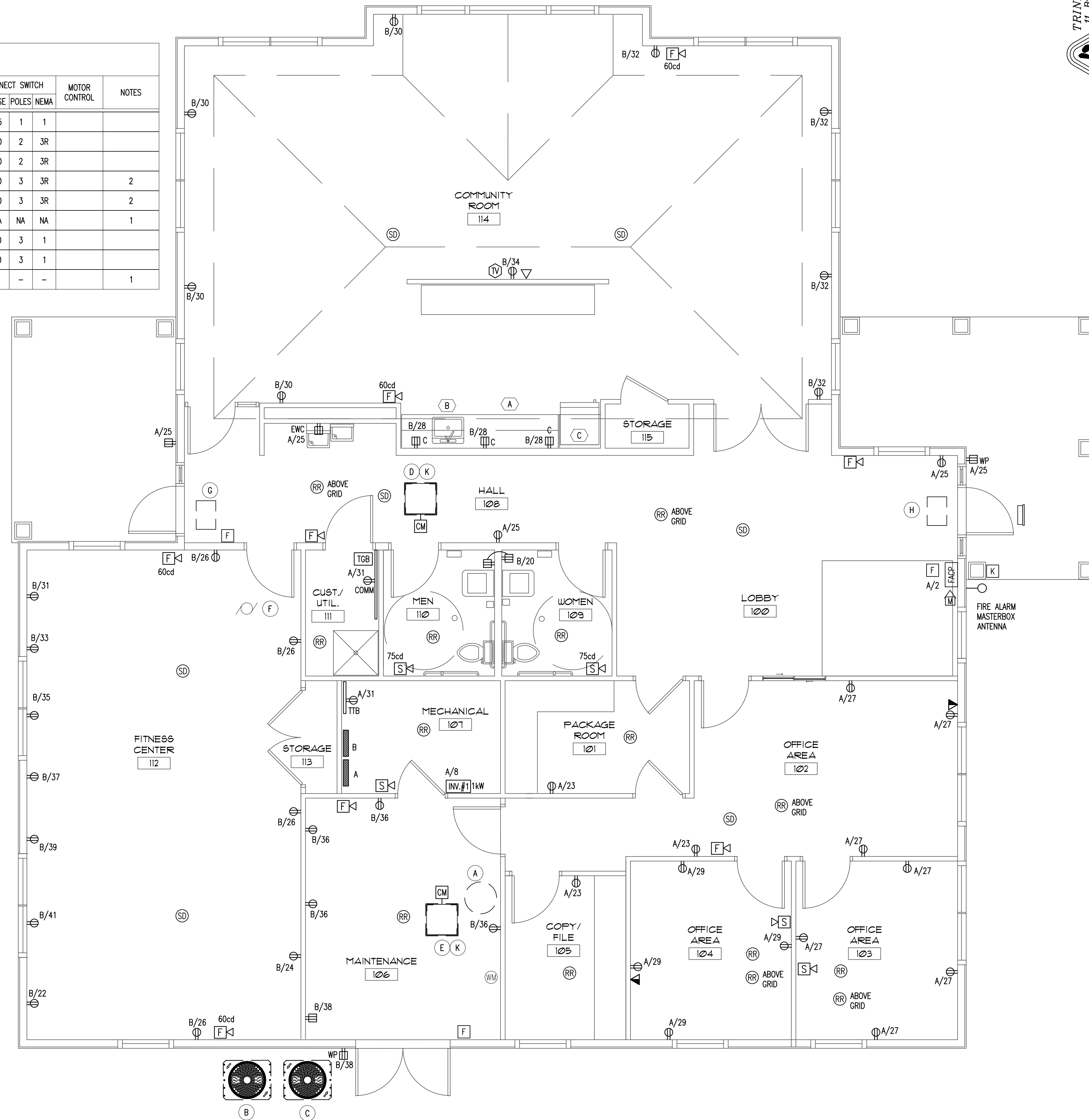
COMMUNITY BUILDING CEILING PLAN 1 1/4" = 1'-0"

ELECTRICAL CONNECTION SCHEDULE FOR KITCHEN EQUIPMENT IN THE COMMUNITY BUILDING															
EQUIP ID#	DESCRIPTION	VOLTS	PH	AMPS	KW	PANEL	CIRCUIT #	BREAKER SIZE	FEEDER AND CONDUIT	NEMA RECEPTACLE	DISCONNECT SWITCH				NOTES
											SIZE	FUSE	POLES	NEMA	
A	MICROWAVE OVEN	120	1	14.5	1.67	A	1	20	2#12+1#12G	5-20R	NA	NA	NA	NA	
B	DISPOSAL	120	1	13.8	1.66	A	3	20	2#12+1#12G	-	NA	NA	NA	NA	1
C	REFRIGERATOR	120	1	15	1.8	A	5	20	2#12+1#12G	5-20R	NA	NA	NA	NA	

NOTES:  
1. PROVIDE SWITCH ABOVE COUNTER.

ELECTRICAL CONNECTION SCHEDULE FOR MECHANICAL EQUIPMENT IN THE COMMUNITY BUILDING																				
MECH ID#	DESCRIPTION	EQUIPMENT CHARACTERISTICS							PANEL	CIRCUIT	BREAKER SIZE	FEEDER AND CONDUIT	EQUIPMENT LOCATION	DISCONNECT SWITCH				MOTOR CONTROL	NOTES	
		VOLTS	PH	AMPS	HP	KW	MCA	MOCP						CFM	SIZE	FUSE	POLES			NEMA
A	WH-CB.1	120	1	25	-	3	-	-	A	7	40	2#6+1#10G IN 3/4"C	-	60	35	1	1			
B	CU-1.0CB	208	1	-	-	-	31	50	A	9,11	50	3#6+1#10G IN 1"C	-	60	50	2	3R			
C	CU-2.0CB	208	1	-	-	-	31	50	A	33,35	50	3#6+1#10G IN 1"C	-	60	50	2	3R			
D	FCU-1.0CB	208	3	-	-	-	56	60	A	15,17,19	80	4#3+1#8G IN 1.5"C	-	100	60	3	3R			2
E	FCU-2.0CB	208	3	-	-	-	56	60	A	37,39,41	80	4#3+1#8G IN 1.5"C	-	100	60	3	3R			2
F	EF-1.0CB	120	1	-	0.04	0.005	-	-	A	4	20	2#12+1#12G IN MC	-	NA	NA	NA	NA			1
G	EHU-1.0CB	208	3	6	-	2	-	-	A	14,16,18	20	4#12+1#12G IN 1/2"C	--	30	10	3	1			
H	EHU-2.0CB	208	3	6	-	2	-	-	A	20,22,24	20	4#12+1#12G IN 1/2"C	--	30	10	3	1			
K	CP-1.1	120	1	1.5	-	0.093	-	-	-	-	-	2#12+1#12G IN 1/2"C	--	-	-	-	-			1

NOTES:  
1. PROVIDE A MANUAL MOTOR STARTER, WITH OVERLOAD ELEMENT(S) SIZED PER THE LOAD SERVED.  
2. PROVIDE A MANUAL MOTOR STARTER, WITH OVERLOAD ELEMENTS SIZED FOR THE FAN MOTOR.

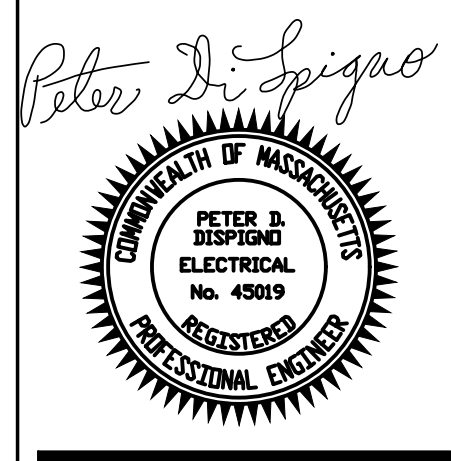


COMMUNITY BUILDING FLOOR PLAN 1 1/4" = 1'-0"

TRINITY ENGINEERING RI  
11 Briggs Road  
Foster RI 02895  
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**Ed Wojcik**  
architect, ltd  
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SHEET CONTENTS:  
Community Building  
Power and Fire Alarm Plans:  
Proposed

PROJECT # 1420  
DATE: 9/22/2020  
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REVISED: 02/16/2021

**E9.2**

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