

SPRING HOPE RAILROAD DEPOT

Building Rehabilitation & Platform Addition

101 South Ash Street
Spring Hope, North Carolina 27882

Owner: Town of Spring Hope
118 W E Railroad Street
Spring Hope, North Carolina 27882
Ph. (252) 478-5625

Architectural: Alliance Architecture of the Triad, PC
2601 Pilgrim Court, Suite 130
Winston-Salem, North Carolina 27106
Ph. (336) 722-4447

Historic Preservation Consultant: David E. Gall, Historic Preservation Consultant
938 W 5th Street
Winston-Salem, North Carolina 27101
Ph. (336) 773-1213

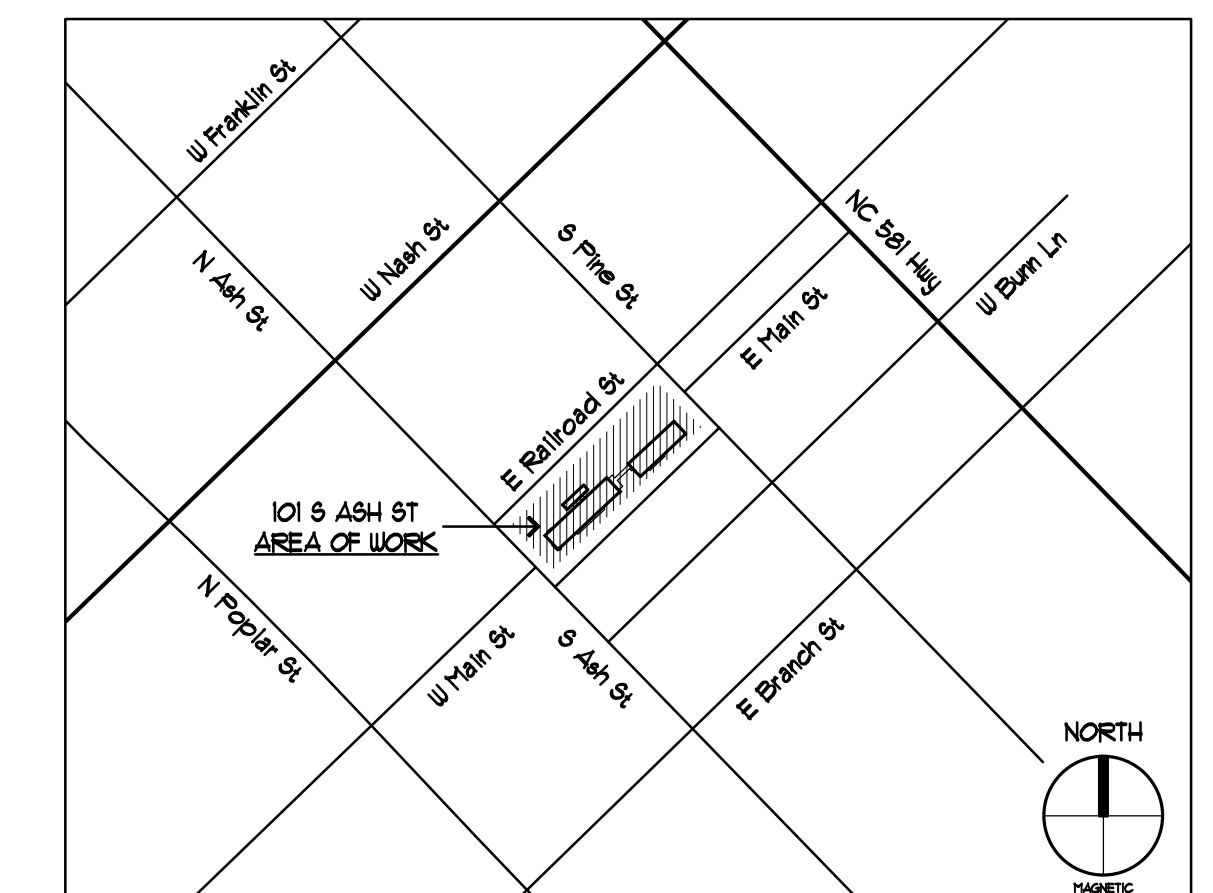
Civil Engineering: Allied Design, Inc.
4720 Kester Mill Road
Winston-Salem, North Carolina 27103
Ph. (336) 765-2377

Structural Engineering: MEPC Structural Engineers
7990 North Point Boulevard, Suite 209
Winston-Salem, North Carolina 27106
Ph. (336) 593-9623

Plumbing, Mechanical, & Fire Protection Engineering: Beekman Point Engineering
295 Seven Farms Drive, Suite C-321
Daniel Island, South Carolina 29492
Ph. (843) 471-5488

Electrical Engineering: B.E.C.I.
2001 Old Westfield Road
Pilot Mountain, North Carolina 27041
Ph. (336) 462-1710

DRAWING INDEX		
SHEET	DRAWING NAME	DATE SUBSTITUTED
COVER		
C811	Cover Sheet	X
C812	Appendix B	X
C813	Overall Plan, Depot Life Safety Plan	X
C814	Platform Life Safety Plan	X
SURVEY		
D-252-1	Survey Plan	X
D-252-2	Survey Plan	X
CIVIL		
C1	Site Existing Conditions & Demolition Plan	X
C2	Site Layout & Utility Plan	X
ARCHITECTURAL		
A11	Depot Demolition Plan	X
A20	Floor Foundation Plans	X
A21	Depot Floor Plan	X
A22	Platform Floor Plan	X
A23	Enlarged Floor Plans	X
A31	Reflected Ceiling Plans	X
A41	Roof Plans	X
A41	Exterior Elevations - Depot	X
A52	Exterior Elevations - Platform	X
A61	Wall Sections - Depot	X
A62	Wall Sections - Platform	X
A63	Wall Sections - Platform	X
A71	Interior Details	X
A72	Exterior Details	X
A81	Schedules, Details	X
A82	Door Frame Details	X
A83	Door Frame Details	X
STRUCTURAL		
S-101	Depot & Platform Foundation Plans	X
S-102	Depot & Platform Framing Plans	X
S-103	Platform Roof Framing Plan	X
S-301	Structural Sections	X
S-302	Structural Sections	X
S-303	Structural Sections, Details, & Truss Profile	X
S-304	Structural Details	X
S-101	Structural Specifications	X
FIRE PROTECTION		
F-001	Fire Protection Plans	X
F-501	Fire Protection Details	X
PLUMBING		
P-001	Plumbing Title Sheet	X
PD-101	Plumbing Demolition Plan	X
P-101	Plumbing Plan	X
P-401	Enlarged Plumbing Plans	X
P-402	Enlarged Plumbing Plans	X
MECHANICAL		
M-001	Mechanical Title Sheet	X
MD101	Mechanical Demolition Plan	X
M-101	Overall Mechanical Floor Plan	X
M-601	Mechanical Schedules & Details	X
M-101	Mechanical Controls	X
ELECTRICAL		
E-01	Electrical Title Sheet	X
E-02	Electrical Riser Diagram & Panel Schedules	X
ED-11	Electrical Demolition Plan	X
E-11	Exit, Emergency, & Lighting Plan	X
E-12	Exit, Emergency, & Lighting Plan	X
E-21	HVAC Electrical & Power Plan	X
E-22	HVAC Electrical & Power Plan	X
E-31	Fire Alarm Plan	X
E-32	Fire Alarm Plan	X



C81101 VICINITY MAP
NOT TO SCALE

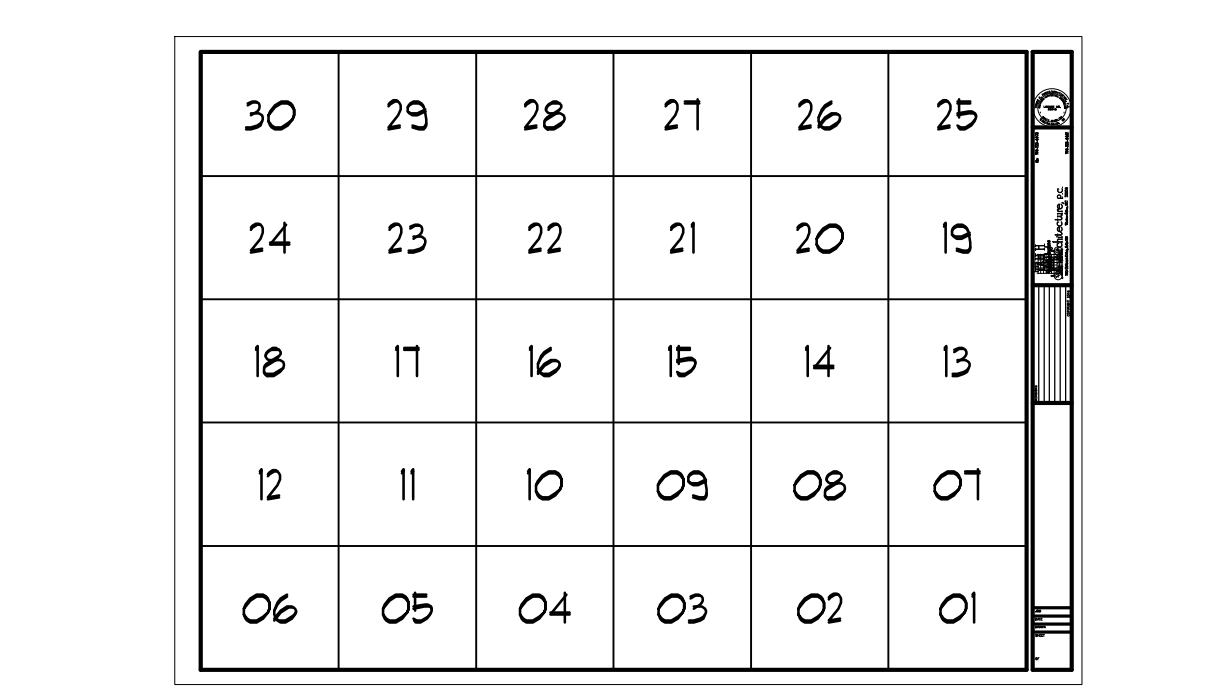
PROJECT NOTES

- A. THE PROJECT HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS AND PROVISIONS OF THE 2008 NORTH CAROLINA EXISTING BUILDING CODE. ALL WORK SHALL COMPLY WITH SAME AS WELL AS ALL APPLICABLE CODES, ORDINANCES, LAWS, SAFETY ORDERS, AND DIRECTIVES OF THE STATE, COUNTY, AND CITY.
- B. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS, FEES, CERTIFICATES OF INSPECTIONS AND APPROVAL.
- C. IN THE CASE OF DISCREPANCIES OR INCONSISTENCIES APPEARING IN THE CONSTRUCTION DOCUMENTS, THE ARCHITECT SHALL BE NOTIFIED IN WRITING FOR PROPER ADJUSTMENT. IN NO CASE SHALL WORK PROCEED IN UNCERTAINTY OR WITH INSUFFICIENT DATA.
- D. THE CONTRACTOR SHALL PROVIDE, INSTALL, AND MAINTAIN FOR THE DURATION OF CONSTRUCTION, ALL REQUIRED SCAFFOLDS, TARPULLING, WIRING SIGNS, FENCES, AND OTHER TEMPORARY CONSTRUCTION ITEMS FOR THE PROPER AND SAFE COMPLETION OF THE WORK AND FOR COMPLIANCE WITH ALL APPLICABLE REGULATIONS AND CODES.
- E. THE CONTRACT DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL DETERMINE CONSTRUCTION PROCEDURES AND SEQUENCES, AND ENSURE THE SAFETY OF THE STRUCTURE AND ITS COMPONENTS DURING CONSTRUCTION.
- F. REFINISHED ITEMS WHICH ARE DAMAGED BY CONTRACTOR EITHER BEFORE, DURING, OR AFTER INSTALLATION SHALL BE REPLACED BY CONTRACTOR WITH NEW AND UNDAMAGED MATERIAL. MATERIALS FINISHED AFTER INSTALLATION WHICH ARE DAMAGED BY CONTRACTOR SHALL BE REPLACED OR REFINISHED.
- G. THE GENERAL CONTRACTOR, PRIOR TO OCCUPANCY, SHALL PROVIDE FINAL NORMAL CLEANING INCLUDING, BUT NOT LIMITED TO, REMOVAL OF ALL ACCUMULATED TRASH AND DEBRIS, CLEAN ALL WINDOWS, DOORS, HARDWARE, AND FIXTURES, VACUUM, CLEAN OR SCRUB AND POLISH ALL FLOORS, AS APPROPRIATE, REMOVING ALL STAINS OR DIRT.
- H. ALL WORK SHALL BE CHECKED AND ACCEPTED BY THE OWNER'S FIELD REPRESENTATIVE DURING THE FINAL PUNCH LIST WALK-THROUGH, BEFORE SAME CAN BE CONSIDERED COMPLETE.
- I. THE GENERAL CONTRACTOR IS RESPONSIBLE TO CONTACT THE FIRE MARSHAL FOR SITE VISIT TO CONFIRM LOCATIONS FOR PORTABLE FIRE EXTINGUISHERS.
- J. SEE SPECIFICATIONS FOR DESCRIPTION OF ADD ALTERNATES.

CONSTRUCTION DOCUMENT ABBREVIATIONS

ABBREV	DESCRIPTION	ABBREV	DESCRIPTION	ABBREV	DESCRIPTION	ABBREV	DESCRIPTION
ABV	ABOVE	BLDG	BUILDING	DEM	DEMOLITION	EST	ESTIMATE
AF	ABOVE FINISHED FLOOR	BLD	BUILT UP ROOFING	DHT	DEMOUNTABLE	EXSTG	EXISTING
AP	ACCESS PANEL	CAB	CABINET	DEPT	DEPARTMENT	EP	EXISTING IRON PIPE
ACOB	ACCOBICAL	CMT	CARPET/CARPETING	DTL	DETAIL	EIR	EXISTING IRON ROD
ACT	ACROBICAL TILE CEILING	CBT	CASSETTE	DIAG	DIAGONAL	EB	EXPANSION BOLT
ADD	ADDED/ADD	CAST	CAST IRON	EXP	EXPOSED	EPH	FRAME
ADDL	ADDITIONAL	GB	GATCH BASIN	DM	DIMENSION	EPAN	EXPANSION
ADH	ADHESIVE	GLS	CEILING	DM	DIVISION	EPJ	EXPANSION JOINT
ADJ	ADJUGATE	GT	GERANIC TILE	DR	DOOR	EXT	EXTERIOR
AGG	AGGREGATE	DEL	DOUBLE	DOOR	DOUBLE	EXT	EXTERIOR
A/G	AIR CONDITIONING	GHM	GHAMMER	DN	DOWN	FCM	FACE OF CONCRETE
ALT	ALTERNATE	GIR	GIRGLE	DS	DOWNSPOUT	FOS	FACE OF STUDS
ALUM	ALUMINUM	GLD	GLOSET	DRN	DRAIN	FAS	FASTEN / FASTENER
AB	ANCHOR BOLT	GP	CLEARANCE	DT	DRAIN TILE	FBO	FIBERBOARD
AND	AND/ANDZ	COL	COLUMN	DR	DRAIN TILE	FBO	FIBERBOARD
APPROX	APPROXIMATE	GO	CLEAN OUT	DNS	DRAINING	FIN	FINISH / FINISHED
ARCH	ARCHITECT/ARCHITECTURAL	COB	COMBINATION	EA	EACH	FE	FINISH FLOOR ELEVATION
ASB	ASBESTOS	CONC	CONCRETE	EAS	EAST	FE	FINISH FLOOR ELEVATION
ASPH	ASPHALT	CONM	CONCRETE MASONRY INT	EBS	EXTERIOR INSUL FIN SYSTEM	FA	FIRE ALARM
AVS	AVERAGE	CONF	CONFERENCE	ELEG	ELECTRIC / ELECTRICAL	FE	FIRE EXTINGUISHER
BATT	BATTEN	CONSTR	CONSTRUCTION	EP	ELECTRICAL PANELBOARD	FE	FIRE EXTINGUISHER CABINET
BD	BOARD	CONT	CONTINUOUS	ENG	ELECTRICAL WATER COOLER	FI	FIRE HYDRANT
BMT	BASIN	CJ	CONTROL JOINT	EL	ELEVATION	FRP	FIRE RESISTANT PANEL
BRS	BEARING	CORR	CORRIDOR	ELEV	ELEVATOR	FL	FLOOR
BFF	BELOW FINISHED FLOOR	CONG	CONCRETE MASONRY PIPE	ENG	EMERGENCY	FLASH	FLASHING
BTM	BITUMINOUS	CFT	CUBIC FOOT	EQ	EQUAL	FLHS	FLAREHEAD MACHINE SCREW
BLKG	BLOCKING	CYD	CUBIC YARD	EQU	EQUIPMENT	FLR	FLOOR
BOT	BOTTOM	C4G	CUBIC YARD GUTTER	ESG	ESCALATOR	FLR	FLOOR

DETAIL NUMBERING SYSTEM



- FOR ALL ARCHITECTURAL SHEETS THE DETAIL NUMBERING SYSTEM IS AS FOLLOWS:
- THE FIRST TWO NUMBERS INDICATE THE SHEET NUMBER - AN EXAMPLE OF A DETAIL ON SHEET A41 IS 201.
 - THE SECOND TWO NUMBERS INDICATE THE LOCATION OF THE DETAIL ON THAT SHEET AS IT RELATES TO THE NUMBERED GRIDS SHOWN ABOVE - FOR EXAMPLE THE DETAIL IN THE UPPER LEFT CORNER OF SHEET A41 IS 410.
 - IF A DETAIL OVERLAPS THE GRIDS, THE DETAIL NUMBER IS DETERMINED BY WHERE THE LOWER RIGHT CORNER OF THE DETAIL FALLS WITHIN THE NUMBERED GRIDS.

ALLIANCE ARCHITECTURE OF THE TRIAD

2601 Pilgrim Court, Suite 130 | Winston-Salem, NC 27106 | Ph. 336-722-4447

ARCHITECTURE OF THE TRIAD, PC

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REVISIONS

SPRING HOPE RAILROAD DEPOT
Building Rehabilitation & Platform Addition
101 South Ash Street
Spring Hope, North Carolina 27882

JOB: 2308
DATE: February 29, 2023
DRAWN: T. Doan
SHEET

APPENDIX B - BUILDING CODE MANUAL

FOR ALL COMMERCIAL PROJECTS (EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)

NAME OF PROJECT: Spring Hope Railroad Depot Building Rehabilitation & Platform Addition

ADDRESS: 101 South Ash Street, Spring Hope, North Carolina 27882
PROPOSED USE: Banquet Hall (A-2)
OWNER: Andrew Dalton, Town Manager

LEAD DESIGN PROFESSIONAL: ANDREW J. LOPINA, AIA

Table with columns: DESIGNER, FIRM, NAME, LICENSE #, PHONE #, E-MAIL. Lists various design firms and their contact information.

2018 EDITION OF NC CODE FOR: NEW BUILDING, ADDITION, RENOVATION, etc.

2018 NC EXISTING BUILDING CODE: EXISTING ALTERATION, REPAIR, etc.

CONSTRUCTED (DATE) 2008, CURRENT OCCUPANCY (CHAPTER 3) Library (A-3), RISK CATEGORY (TABLE 504.5) II

BASIC BUILDING DATA: CONSTRUCTION TYPE(S) II-A, II-B, III-A, III-B, IV, V-A, V-B

SPRINKLERS: NO, PARTIAL, YES, etc. FIRE DETECTION: NO, YES, etc.

Table with columns: FLOOR, GROSS BUILDING AREA, EXISTING (SQ. FT.), NEW (SQ. FT.), SUB-TOTAL (SQ. FT.). Lists area for various floors.

SPRING HOPE RAILROAD DEPOT (EXISTING BUILDING) - SEE CS13 FOR OVERALL LIFE SAFETY PLAN

ALLOWABLE AREA

PRIMARY OCCUPANCY CLASSIFICATION(S): ASSEMBLY, BUSINESS, EDUCATIONAL, etc.

MERCANTILE, RESIDENTIAL, STORAGE, UTILITY & MISCELLANEOUS. ACCESSORY OCCUPANCY CLASSIFICATION(S): INCIDENTAL USES, SPECIAL USES, MIXED OCCUPANCY.

NON-SEPARATED USE (506.3): THE REQUIRED TYPE OF CONSTRUCTION FOR THE BUILDING SHALL BE DETERMINED BY APPLYING THE HEIGHT AND AREA LIMITATIONS FOR EACH OF THE APPLICABLE OCCUPANCIES TO THE ENTIRE BUILDING.

SEPARATED USE (506.4): SEE BELOW FOR AREA CALCULATIONS FOR EACH STORY. THE AREA OF THE OCCUPANCY SHALL BE SUCH THAT THE RATIO OF THE ACTUAL FLOOR AREA OF EACH USE DIVIDED BY THE ALLOWABLE FLOOR AREA FOR EACH USE SHALL NOT EXCEED 1.

ACTUAL AREA OF OCCUPANCY A / ALLOWABLE AREA OF OCCUPANCY A + ACTUAL AREA OF OCCUPANCY B / ALLOWABLE AREA OF OCCUPANCY B <= 1

Table with columns: STORY #, DESCRIPTION AND USE, BLDG. AREA PER STORY (ACTUAL), TABLE 506.2.4 AREA, AREA FOR FRONTAGE INCREASE 1.9, ALLOWABLE AREA PER STORY OR UNLIMITED 2.3. Shows data for Banquet Hall and Storage.

1 FRONTAGE AREA INCREASED FROM SECTION 506.3 ARE COMPUTED THIS WAY. 2 PERIMETER WHICH FRONTS A PUBLIC WAY OR OPEN SPACE HAVING 20 FEET MINIMUM WIDTH. 3 TOTAL BUILDING PERIMETER. 4 RATIO (R/P). 5 MINIMUM WIDTH OF PUBLIC WAY. 6 PERCENT OF FRONTAGE INCREASE = 100 (R/P - 0.25) x 100 / 100.

ALLOWABLE HEIGHT

Table with columns: BUILDING HEIGHT IN FEET (TABLE 504.3), SHOWN ON PLANS, CODE REFERENCE. Shows height of 60'-0" and 2'.

(Provide Code Reference if "Shown on Plans" is not based on Table 503.3 or 503.4)

FIRE PROTECTION REQUIREMENTS

Table with columns: BUILDING ELEMENT, DIRECTIONS LISTED BELOW REFER TO ORIENTATION ON PLAN NOT CARDINAL DIRECTIONS, FIRE SEPARATION DISTANCE (FEET), RATING, DETAIL # AND SHEET #, DESIGN # FOR RATED ASSEMBLY, SHEET # FOR RATED PENETRATION, SHEET # FOR RATED JOINTS. Lists fire protection details for structural frame, bearing walls, interior walls, etc.

PERCENTAGE OF WALL OPENING CALCULATIONS (UNLIMITED PER NCBC 1058.1, ETC. 2)

LIFE SAFETY SYSTEM REQUIREMENTS

EMERGENCY LIGHTING: NO, YES. EXIT SIGNS: NO, YES. SMOKE DETECTION SYSTEMS: NO, YES. CARBON MONOXIDE DETECTION: NO, YES.

LIFE SAFETY PLAN REQUIREMENTS

LIFE SAFETY PLAN SHEET # CS13 & CS14. FIRE AND/OR SMOKE RATED WALL LOCATIONS (CHAPTER 7). SHARED AND REAL PROPERTY LINE LOCATIONS (if not on site plan). EXTERIOR WALL OPENING AREA WITH RESPECT TO DISTANCE TO ASSIGNED PROPERTY LINES (1058.4). OCCUPANT LOAD FOR EACH AREA AS IT RELATES TO OCCUPANT LOAD CALCULATION (TABLE 1004.1). EXIT SIGN LOCATIONS (1003).

ACCESSIBLE DWELLING UNITS (NOT APPLICABLE) (SECTION 107)

ACCESSIBLE PARKING (SECTION 106) SITE TO UTILIZE EXISTING STREET-SIDE ACCESSIBLE PARKING PER SPRING HOPE TOWN ORDINANCE REGARDING CENTRAL BUSINESS DISTRICT TO MEET PARKING REQUIREMENTS - SEE CIVIL FOR NEW ACCESSIBLE ROUTE W/ STREET CROSSING TO EXISTING ACCESSIBLE PARKING SPACES

PLUMBING FIXTURE REQUIREMENTS # DEPOT (TABLE 7902.1)

Table with columns: USE, WATERCLOSETS, LAVATORIES, SHOULDERS / TUBS, DRINKING FOUNTAINS. Lists fixture counts for men, women, and general use.

PLUMBING FIXTURE COUNT BASED ON 291 OCCUPANTS. 03 MEN: WATER CLOSETS 1 PER 75 PPL + 2 WATER CLOSETS LAVATORIES 1 PER 200 PPL + 2 LAVS. 03 WOMEN: WATER CLOSETS 1 PER 75 PPL + 2 WATER CLOSETS LAVATORIES 1 PER 200 PPL + 2 LAVS.

SPECIAL APPROVALS

(LOCAL JURISDICTION, DEPARTMENT OF INSURANCE, OIG, DPI, DHS, ICC, etc., DESCRIBE BELOW) NASH COUNTY, NC / NC STATE HISTORIC PRESERVATION OFFICES / NC DOT RAIL DIVISION

ENERGY REQUIREMENTS (SEE BELOW FOR EXEMPTIONS # DEPOT)

THE FOLLOWING DATA SHALL BE CONSIDERED MINIMUM AND ANY SPECIAL ATTRIBUTE REQUIRED TO MEET THE ENERGY CODE SHALL ALSO BE PROVIDED. EACH DESIGNER SHALL FURNISH THE REQUIRED PORTIONS OF THE PROJECT INFORMATION FOR THE PLAN DATA SHEET. IF PERFORMANCE METHOD, STATE THE ANNUAL COST FOR THE STANDARD REFERENCE DESIGN vs. ANNUAL ENERGY COST FOR THE PROPOSED DESIGN.

EXISTING BUILDING ENVELOPE COMPLIES WITH CODE: NO YES (THE REMAINDER OF THIS SECTION IS NOT APPLICABLE)

EXEMPT BUILDING: NO YES (PROVIDE CODE OR STATUTORY REFERENCE) EXEMPT PER NC ENERGY CODE CS16.6 # DEPOT

CLIMATE ZONE: 3A 4A 5A

METHOD OF COMPLIANCE: ENERGY CODE: PERFORMANCE, PREScriptive, ASHRAE 90.1, PREScriptive, OTHER (IF OTHER, PROVIDE SOURCE HERE)

STRUCTURAL DESIGN (SEE STRUCTURAL DRAWINGS)

MECHANICAL DESIGN (SEE MECHANICAL DRAWINGS)

ELECTRICAL SUMMARY & DESIGN (SEE ELECTRICAL DRAWINGS)

SPRING HOPE COTTON PLATFORM (NEW CONSTRUCTION) - SEE CS13 FOR OVERALL LIFE SAFETY PLAN

ALLOWABLE AREA

PRIMARY OCCUPANCY CLASSIFICATION(S): ASSEMBLY, BUSINESS, EDUCATIONAL, etc.

MERCANTILE, RESIDENTIAL, STORAGE, UTILITY & MISCELLANEOUS. ACCESSORY OCCUPANCY CLASSIFICATION(S): INCIDENTAL USES, SPECIAL USES, MIXED OCCUPANCY.

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ACTUAL AREA OF OCCUPANCY A / ALLOWABLE AREA OF OCCUPANCY A + ACTUAL AREA OF OCCUPANCY B / ALLOWABLE AREA OF OCCUPANCY B <= 1

Table with columns: STORY #, DESCRIPTION AND USE, (A) BLDG. AREA PER STORY (ACTUAL), (B) TABLE 506.2.4 AREA, (C) AREA FOR FRONTAGE INCREASE 1.9, (D) ALLOWABLE AREA PER STORY OR UNLIMITED 2.3. Shows data for Banquet Hall.

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ALLOWABLE HEIGHT

Table with columns: BUILDING HEIGHT IN FEET (TABLE 504.3), SHOWN ON PLANS, CODE REFERENCE. Shows height of 60'-0" and 2'.

(Provide Code Reference if "Shown on Plans" is not based on Table 503.3 or 503.4)

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Table with columns: BUILDING ELEMENT, FIRE SEPARATION DISTANCE (FEET), RATING, DETAIL # AND SHEET #, DESIGN # FOR RATED ASSEMBLY, SHEET # FOR RATED PENETRATION, SHEET # FOR RATED JOINTS. Lists fire protection details for structural frame, bearing walls, interior walls, etc.

PERCENTAGE OF WALL OPENING CALCULATIONS (UNLIMITED PER NCBC 1058.1, ETC. 2)

LIFE SAFETY SYSTEM REQUIREMENTS

EMERGENCY LIGHTING: NO, YES. EXIT SIGNS: NO, YES. SMOKE DETECTION SYSTEMS: NO, YES. CARBON MONOXIDE DETECTION: NO, YES.

LIFE SAFETY PLAN REQUIREMENTS

LIFE SAFETY PLAN SHEET # CS13 & CS14. FIRE AND/OR SMOKE RATED WALL LOCATIONS (CHAPTER 7). SHARED AND REAL PROPERTY LINE LOCATIONS (if not on site plan). EXTERIOR WALL OPENING AREA WITH RESPECT TO DISTANCE TO ASSIGNED PROPERTY LINES (1058.4). OCCUPANT LOAD FOR EACH AREA AS IT RELATES TO OCCUPANT LOAD CALCULATION (TABLE 1004.1).

ACCESSIBLE DWELLING UNITS (NOT APPLICABLE) (SECTION 107)

ACCESSIBLE PARKING (SECTION 106) SITE TO UTILIZE EXISTING STREET-SIDE ACCESSIBLE PARKING PER SPRING HOPE TOWN ORDINANCE REGARDING CENTRAL BUSINESS DISTRICT TO MEET PARKING REQUIREMENTS - SEE CIVIL FOR NEW ACCESSIBLE ROUTE W/ STREET CROSSING TO EXISTING ACCESSIBLE PARKING SPACES

PLUMBING FIXTURE REQUIREMENTS # PLATFORM (TABLE 7902.1)

Table with columns: USE, WATERCLOSETS, LAVATORIES, SHOULDERS / TUBS, DRINKING FOUNTAINS. Lists fixture counts for men, women, and general use.

PLUMBING FIXTURE COUNT BASED ON 20 OCCUPANTS. 106 MEN: WATER CLOSETS 1 PER 75 PPL + 2 WATER CLOSETS LAVATORIES 1 PER 200 PPL + 2 LAV. 106 WOMEN: WATER CLOSETS 1 PER 75 PPL + 2 WATER CLOSETS LAVATORIES 1 PER 200 PPL + 2 LAV.

SPECIAL APPROVALS

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ENERGY REQUIREMENTS (SEE BELOW FOR EXEMPTIONS # PLATFORM)

THE FOLLOWING DATA SHALL BE CONSIDERED MINIMUM AND ANY SPECIAL ATTRIBUTE REQUIRED TO MEET THE ENERGY CODE SHALL ALSO BE PROVIDED. EACH DESIGNER SHALL FURNISH THE REQUIRED PORTIONS OF THE PROJECT INFORMATION FOR THE PLAN DATA SHEET. IF PERFORMANCE METHOD, STATE THE ANNUAL COST FOR THE STANDARD REFERENCE DESIGN vs. ANNUAL ENERGY COST FOR THE PROPOSED DESIGN.

EXISTING BUILDING ENVELOPE COMPLIES WITH CODE: NO YES (THE REMAINDER OF THIS SECTION IS NOT APPLICABLE)

EXEMPT BUILDING: NO YES (PROVIDE CODE OR STATUTORY REFERENCE) EXEMPT PER NC ENERGY CODE CS16.6 # PLATFORM

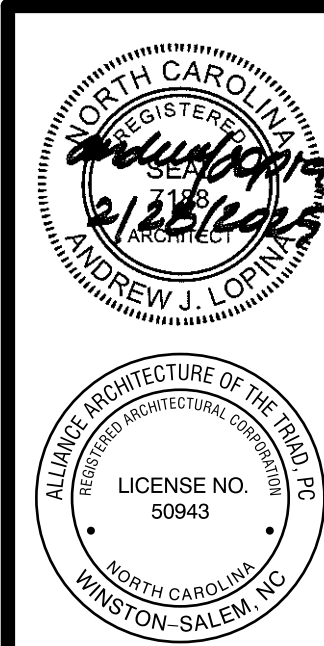
CLIMATE ZONE: 3A 4A 5A

METHOD OF COMPLIANCE: ENERGY CODE: PERFORMANCE, PREScriptive, ASHRAE 90.1, PREScriptive, OTHER (IF OTHER, PROVIDE SOURCE HERE)

STRUCTURAL DESIGN (SEE STRUCTURAL DRAWINGS)

MECHANICAL DESIGN (SEE MECHANICAL DRAWINGS)

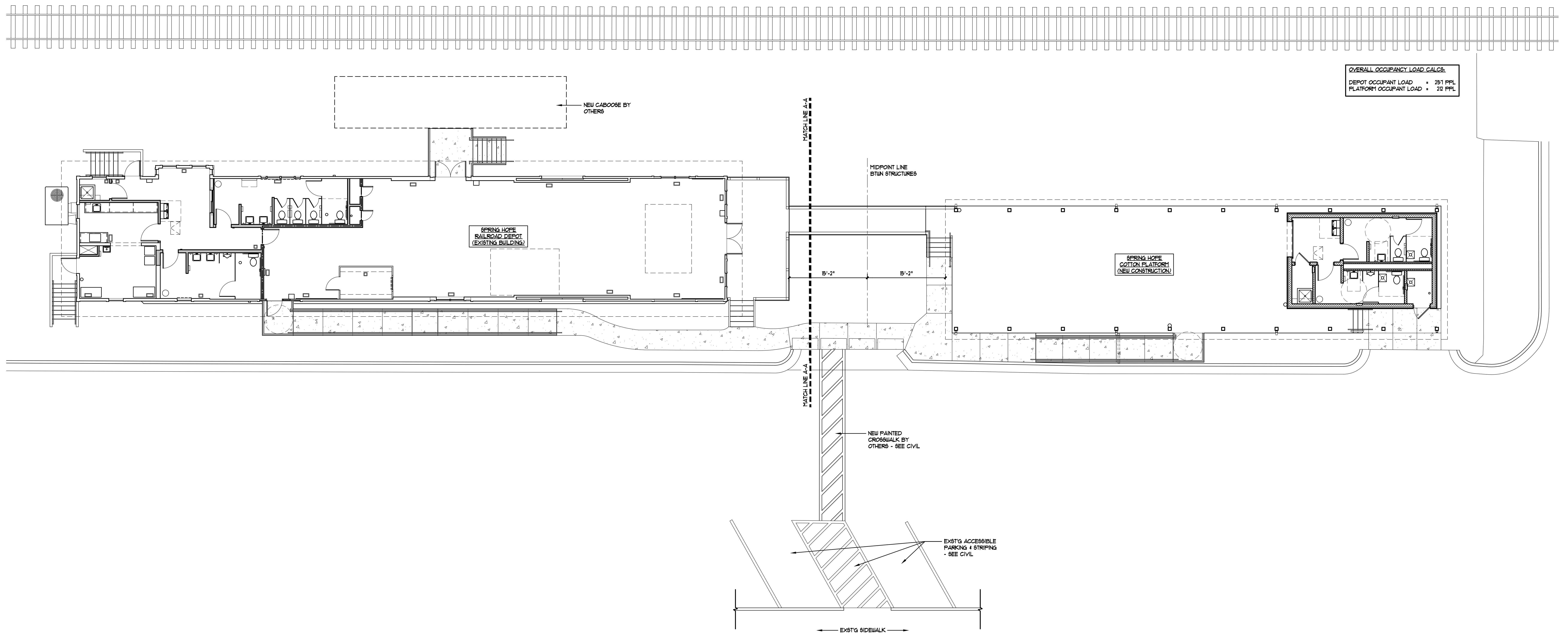
ELECTRICAL SUMMARY & DESIGN (SEE ELECTRICAL DRAWINGS)



REVISIONS table with columns: NO., DESCRIPTION, DATE. Shows a list of revisions for the project.

SPRING HOPE RAILROAD DEPOT Building Rehabilitation & Platform Addition 101 South Ash Street Spring Hope, North Carolina 27882

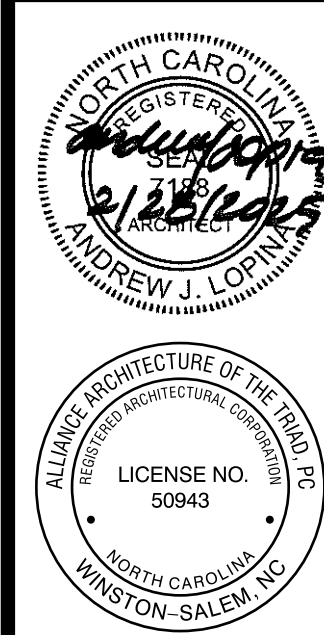
JOB: 2306 DATE: February 29, 2025 DRAWN: T. Doan SHEET: CS12



OVERALL OCCUPANCY LOAD CALC.
 DEPOT OCCUPANT LOAD = 291 PPL
 PLATFORM OCCUPANT LOAD = 22 PPL

1301 OVERALL FLOOR / LIFE SAFETY PLAN
 1/8" = 1'-0"

BPO123081



ALLIANCE ARCHITECTURE OF THE TRIAD
 2601 Pilgrim Court, Suite E30 | Winston-Salem, NC 27106 | Ph. 336-772-4447

NO.	REVISIONS

SPRING HOPE RAILROAD DEPOT
 Building Rehabilitation & Platform Addition
 101 South Ash Street
 Spring Hope, North Carolina 27882

JOB 23081
 DATE February 28, 2025

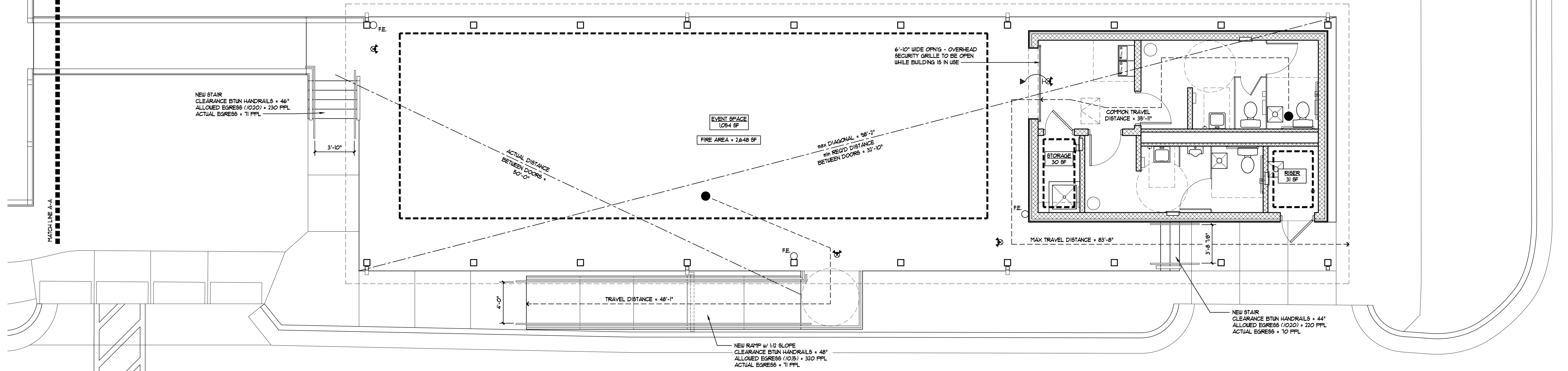
DRAWN T. Doan
 SHEET



OCCUPANCY LOAD CALCS. - PLATFORM:
 MIXED ASSEMBLY USE - ASSUMING HIGHEST OCCUPANCY (1/2 SF)
 EVENT SPACE (1,064 SF) • 211 PPL
 STORAGE / HIGH (1,300 SF) • 1 PERSON
 MISC. STORAGE (61 SF) • 1 PERSON
 PLATFORM OCCUPANT LOAD = 212 PPL
 EXITS REQUIRED = 2
 MAX TRAVEL DIST = 56'-1"
 MAX ALLOWABLE TRAVEL DIST = 250'

EGRESS LIGHTING LEGEND:
 ○ - NEW EXIT LIGHT FIXTURE
 ⊕ - NEW COMBO EXIT SIGN & EM LIGHT FIXTURE
 ◀ - NEW EXT. EM LIGHT FIXTURE
 NOTE: SEE ELEC FOR FIXTURE SELECTIONS

OVERALL OCCUPANCY LOAD CALCS:
 DEPOT OCCUPANT LOAD = 251 PPL
 PLATFORM OCCUPANT LOAD = 212 PPL



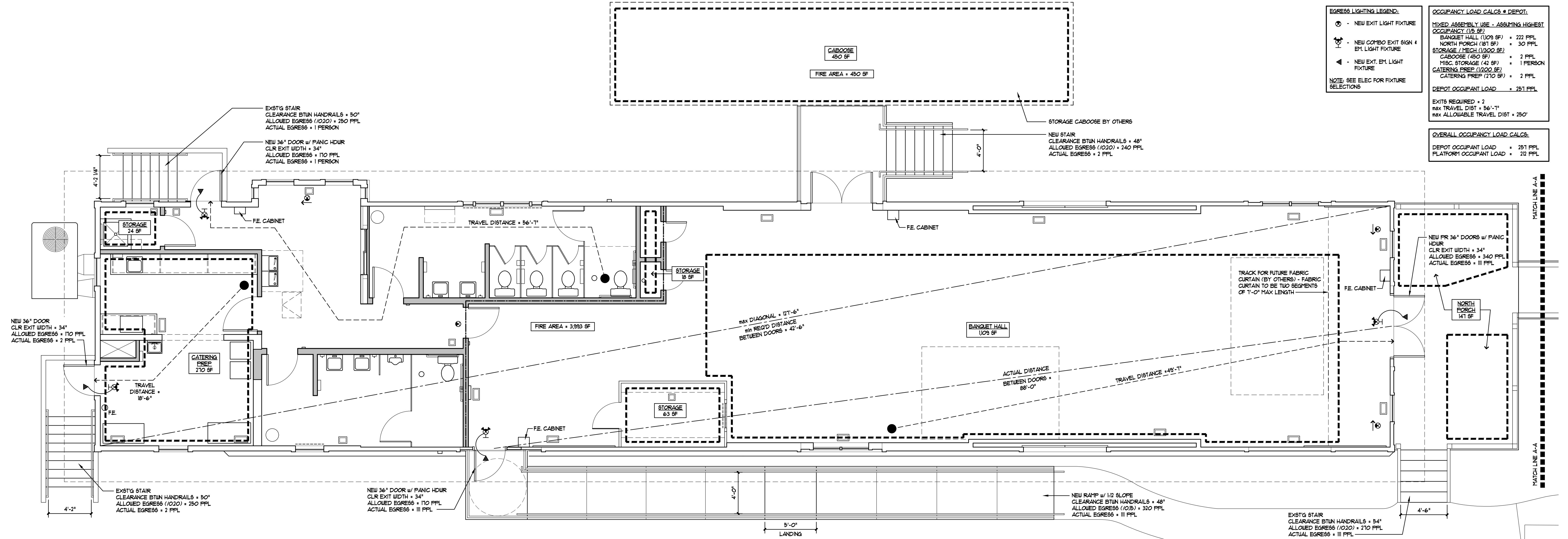
1413 LIFE SAFETY PLAN @ PLATFORM ADDITION
 1/4" = 1'-0"

BPO123081

OCCUPANCY LOAD CALCS. - DEPOT:
 MIXED ASSEMBLY USE - ASSUMING HIGHEST OCCUPANCY (1/2 SF)
 BANQUET HALL (1,009 SF) • 222 PPL
 NORTH PORCH (81 SF) • 30 PPL
 STORAGE / HIGH (1,300 SF) • 1 PERSON
 CABOOSE (450 SF) • 2 PPL
 MISC. STORAGE (42 SF) • 1 PERSON
 CATERING PREP (270 SF) • 2 PPL
 DEPOT OCCUPANT LOAD = 251 PPL
 EXITS REQUIRED = 2
 MAX TRAVEL DIST = 56'-1"
 MAX ALLOWABLE TRAVEL DIST = 250'

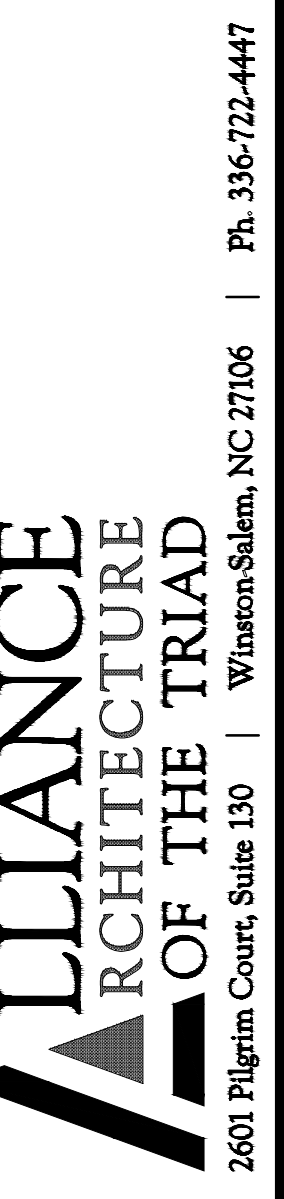
EGRESS LIGHTING LEGEND:
 ○ - NEW EXIT LIGHT FIXTURE
 ⊕ - NEW COMBO EXIT SIGN & EM LIGHT FIXTURE
 ◀ - NEW EXT. EM LIGHT FIXTURE
 NOTE: SEE ELEC FOR FIXTURE SELECTIONS

OVERALL OCCUPANCY LOAD CALCS:
 DEPOT OCCUPANT LOAD = 251 PPL
 PLATFORM OCCUPANT LOAD = 212 PPL



1401 LIFE SAFETY PLAN @ PLATFORM ADDITION
 1/4" = 1'-0"

BPO123081



ALLIANCE ARCHITECTURE OF THE TRIAD
 2601 Pflieger Court, Suite 130 | Winston-Salem, NC 27106 | Ph. 336-732-4447

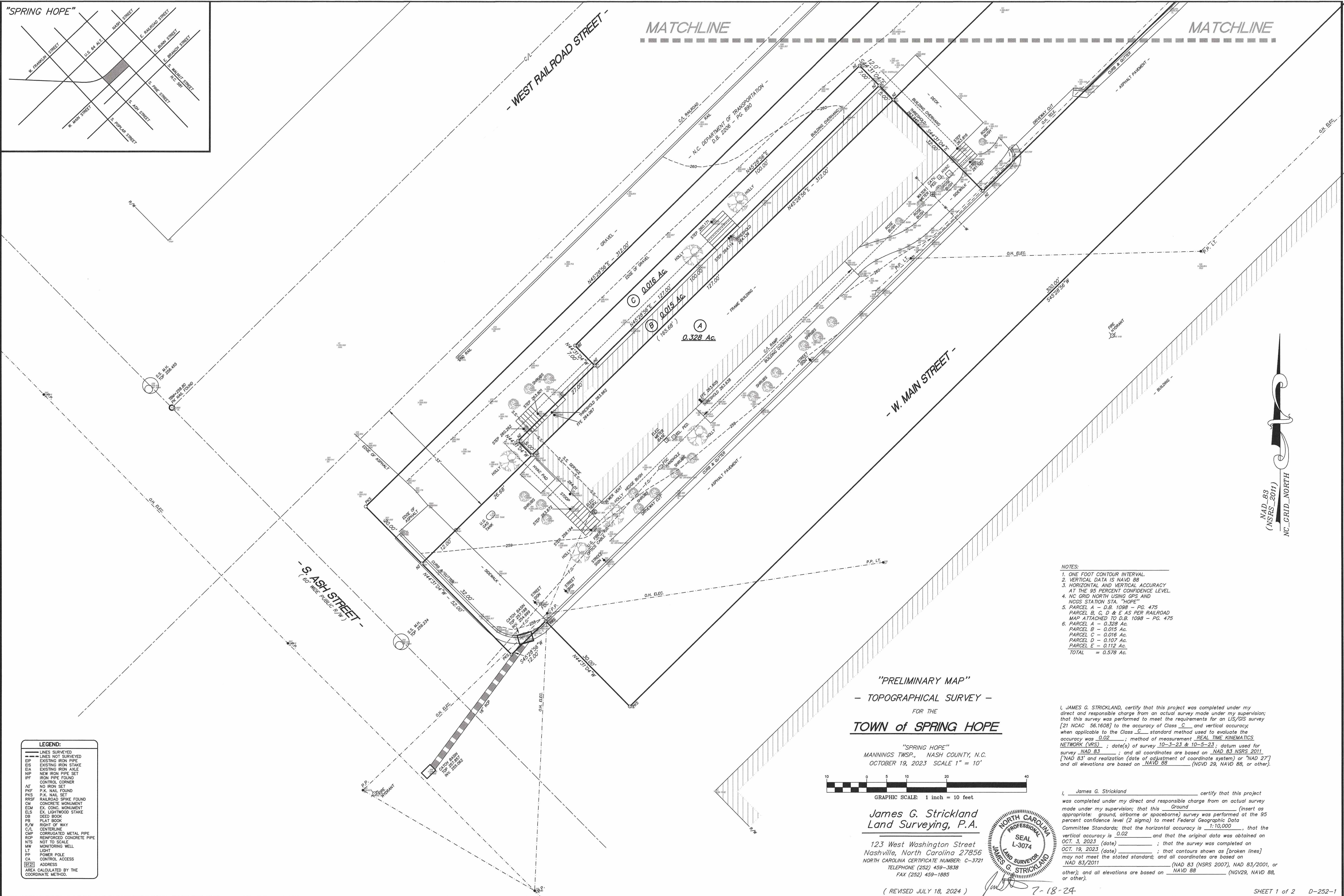
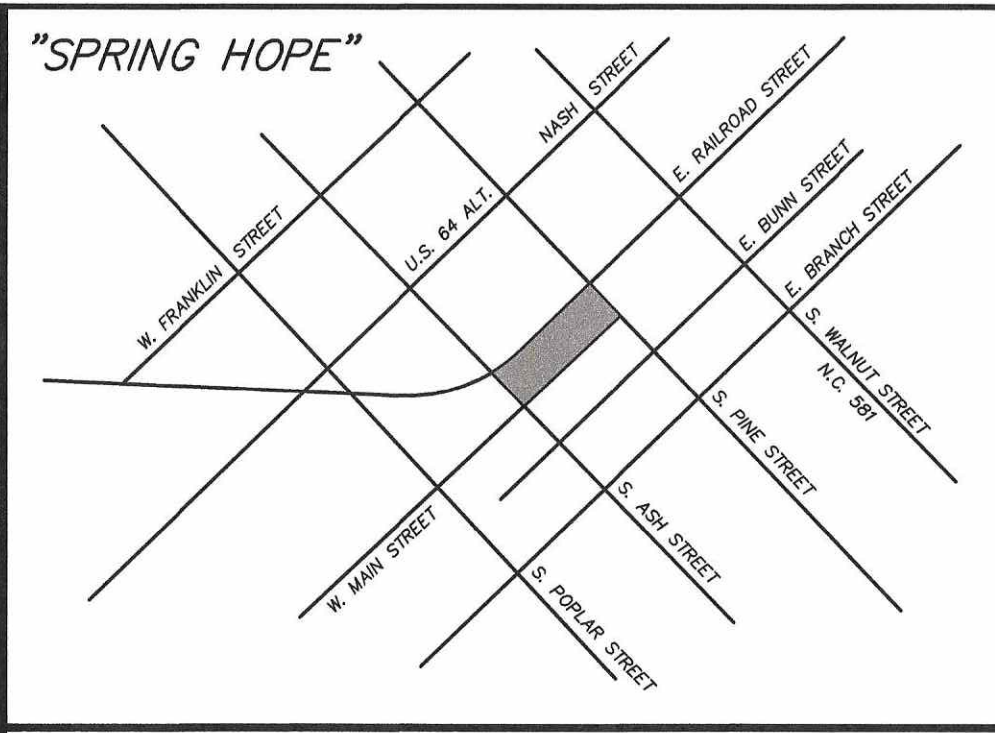
REVISIONS

SPRING HOPE RAILROAD DEPOT
 Building Rehabilitation & Platform Addition
 101 South Ash Street
 Spring Hope, North Carolina 27982

JOB 2308
 DATE February 28, 2025

DRAWN T. Doan





LEGEND:

- LINES SURVEYED
- LINES NOT SURVEYED
- EP EXISTING IRON PIPE
- ES EXISTING IRON STAKE
- EAX EXISTING IRON AXLE
- NIP NEW IRON PIPE SET
- NIPF NEW IRON PIPE FOUND
- CCF CONTROL CORNER
- NT NO IRON SET
- NPF P.K. NAIL FOUND
- NPI P.K. NAIL SET
- RRSF RAILROAD SPIKE FOUND
- CM CONCRETE MONUMENT
- ECM EX. CONC. MONUMENT
- ELS EX. LIGHTWOOD STAKE
- DB DEED BOOK
- PL PLAY BOOK
- R/W RIGHT OF WAY
- C/L CENTERLINE
- CMP CORRUGATED METAL PIPE
- RCP REINFORCED CONCRETE PIPE
- NTS NOT TO SCALE
- MW MONITORING WELL
- LT LIGHT
- PP POWER POLE
- CA CONTROL ACCESS
- STRT ADDRESS

AREA CALCULATED BY THE COORDINATE METHOD.

- NOTES:**
1. ONE FOOT CONTOUR INTERVAL.
 2. VERTICAL DATA IS NAVD 88.
 3. HORIZONTAL AND VERTICAL ACCURACY AT THE 95 PERCENT CONFIDENCE LEVEL.
 4. NC GRID NORTH USING GPS AND NCCS STATION STA. "HOPE".
 5. PARCEL A - D.B. 1098 - PG. 475
PARCEL B, C, D & E AS PER RAILROAD MAP ATTACHED TO D.B. 1098 - PG. 475
 6. PARCEL A - 0.328 Ac.
PARCEL B - 0.016 Ac.
PARCEL C - 0.016 Ac.
PARCEL D - 0.107 Ac.
PARCEL E - 0.112 Ac.
TOTAL = 0.578 Ac.

"PRELIMINARY MAP"
TOPOGRAPHICAL SURVEY -
 FOR THE
TOWN of SPRING HOPE

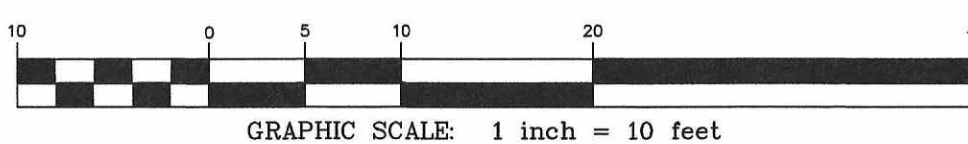
"SPRING HOPE"
 MANNINGS TWP., NASH COUNTY, N.C.
 OCTOBER 19, 2023 SCALE 1" = 10'

James G. Strickland
Land Surveying, P.A.
 123 West Washington Street
 Nashville, North Carolina 27856
 NORTH CAROLINA CERTIFICATE NUMBER: C-3721
 TELEPHONE: (252) 459-3838
 FAX: (252) 459-1885

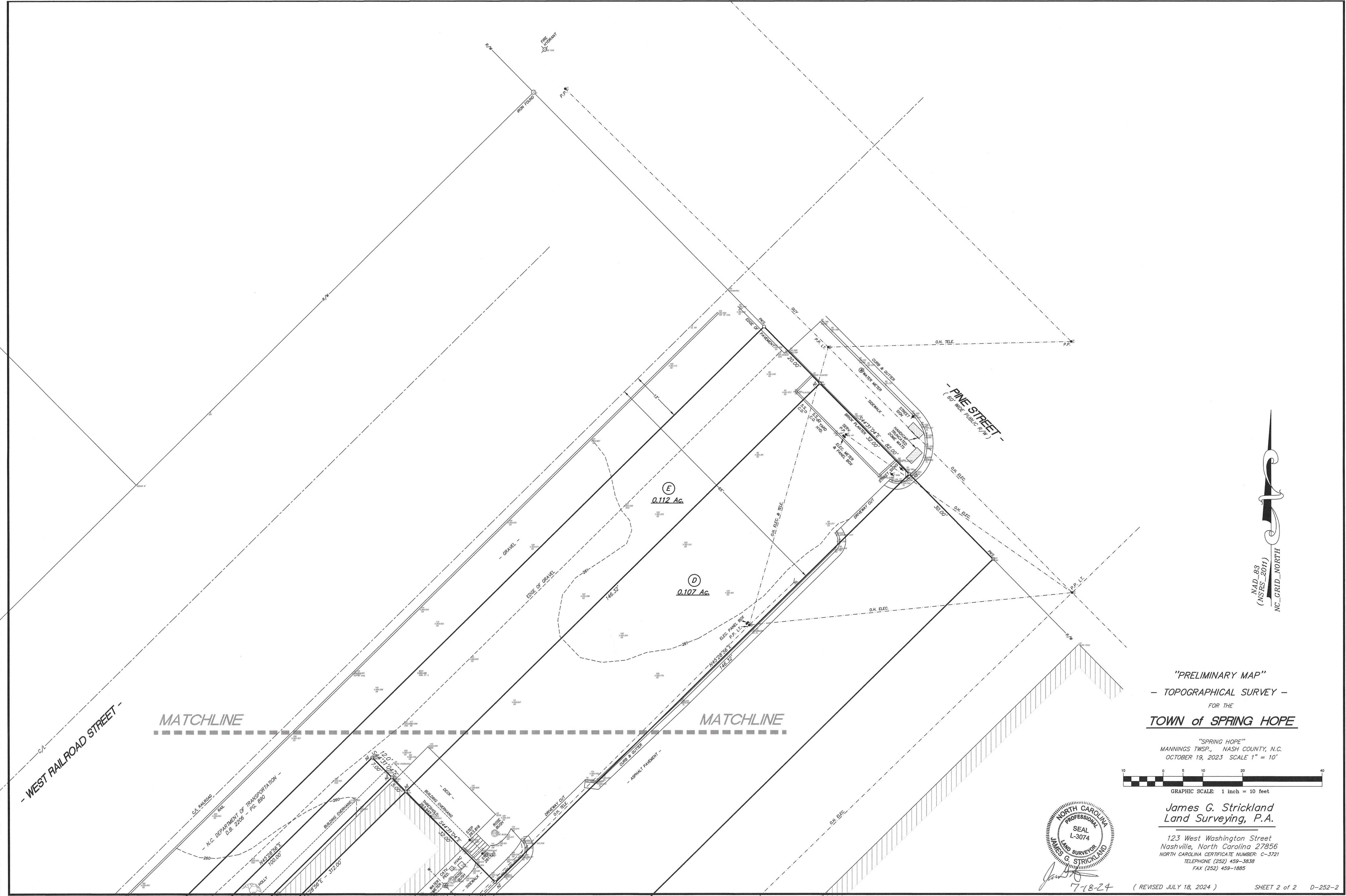


I, JAMES G. STRICKLAND, certify that this project was completed under my direct and responsible charge from an actual survey made under my supervision; that this survey was performed to meet the requirements for an US/GS survey [21 NCAC 56.1608] to the accuracy of Class C and vertical accuracy; when applicable to the Class S standard method used to evaluate the accuracy was 0.02; method of measurement: REAL TIME KINEMATICS NETWORK (RTS); date(s) of survey 10-3-23 & 10-5-23; datum used for survey NAD 83; and all coordinates are based on NAD 83 NRSRS 2011. [NAD 83 and realization (date of adjustment of coordinate system) or "NAD 27" and all elevations are based on NAVD 88 (NGVD 29, NAVD 88, or other).

I, James G. Strickland, certify that this project was completed under my direct and responsible charge from an actual survey made under my supervision; that this Ground (insert as appropriate: ground, airborne or spaceborne) survey was performed at the 95 percent confidence level (2 sigma) to meet Federal Geographic Data Committee Standards; that the horizontal accuracy is 1:10,000; that the vertical accuracy is 0.02; and that the original data was obtained on OCT. 3, 2023, (date); that the survey was completed on OCT. 19, 2023, (date); that contours shown as [broken lines] may not meet the stated standard; and all coordinates are based on NAD 83/2011 (NAD 83 (NRSRS 2007), NAD 83/2001, or other); and all elevations are based on NAVD 88 (NGV29, NAVD 88, or other).



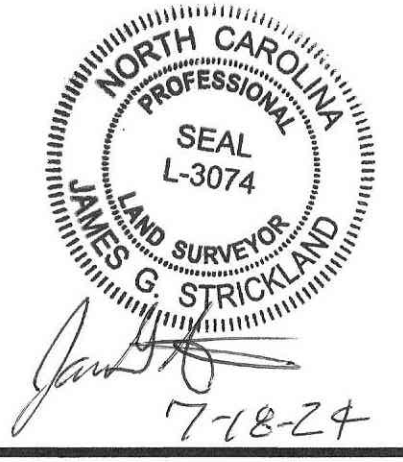
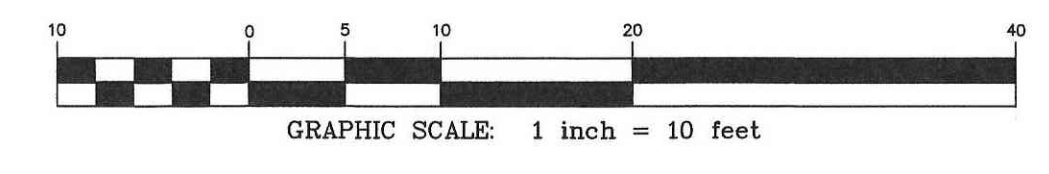
NAD 83
 (NRSRS 2011)
 NC GRID NORTH



NAD_83
 (NAD83 2011)
 NC_GRID_NORTHT

"PRELIMINARY MAP"
 - TOPOGRAPHICAL SURVEY -
 FOR THE
TOWN of SPRING HOPE

"SPRING HOPE"
 MANNINGS TWP., NASH COUNTY, N.C.
 OCTOBER 19, 2023 SCALE 1" = 10'



James G. Strickland
 Land Surveying, P.A.

123 West Washington Street
 Nashville, North Carolina 27856
 NORTH CAROLINA CERTIFICATE NUMBER: C-3721
 TELEPHONE (252) 459-3838
 FAX (252) 459-1885

NAD 83
(NCRS 2011)
NC_GRD_NORTH

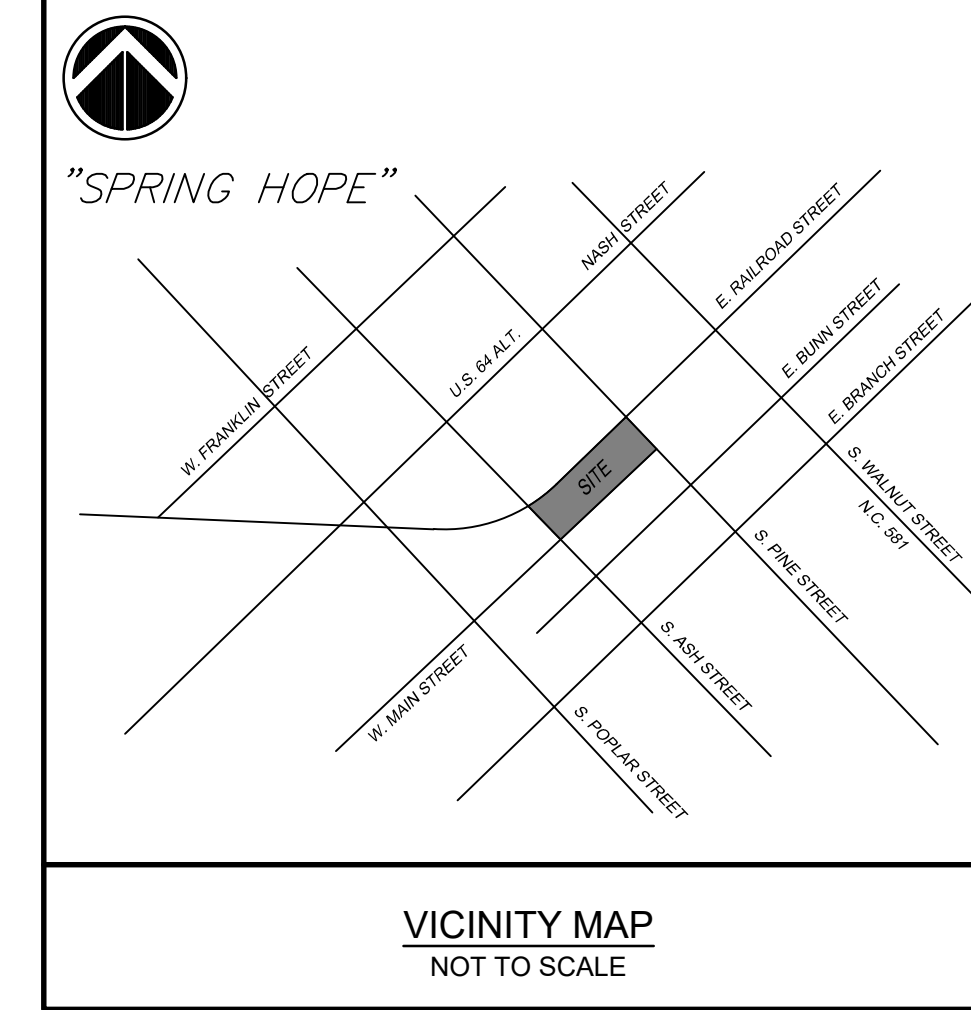
DEMOLITION GENERAL NOTES

- LOCATION AND TOPOGRAPHIC INFORMATION PROVIDED BY A SURVEY COMPLETED BY JAMES G. STRICKLAND LAND SURVEYING, P.A., DATED OCTOBER 19, 2023, REVISED JULY 18, 2024, PROJ.# D-252-1.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFORMING TO ALL APPLICABLE OSHA REGULATIONS PERTAINING TO CONSTRUCTION ON-SITE.
- CONTRACTOR SHALL PROVIDE THE NECESSARY SIGNAGE AND FLAGMEN WHEN WORKING WITHIN THE PUBLIC ROAD RIGHT-OF-WAY. UTILIZE TEMPORARY TRAFFIC CONTROL DEVICES TO ENSURE THE SAFETY OF EMPLOYEES AND THE GENERAL PUBLIC.
- PERIMETER EROSION CONTROL DEVICES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE MOST CURRENT STANDARDS OF THE LAND QUALITY SECTION OF THE NCEQ.
- COORDINATE WITH ADJACENT PROPERTY OWNERS FOR ANY WORK REQUIRED OUTSIDE OF PROPERTY BOUNDARY.
- OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES PRIOR TO COMMENCEMENT OF ANY WORK.
- THE CONTRACTOR SHALL CONTACT NORTH CAROLINA ONE CALL CENTER (800) 522-4949 AT LEAST THREE DAYS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL ILLUSTRATED UNDERGROUND UTILITIES AND SHALL EXERCISE REASONABLE EFFORTS TO PROTECT ANY UNKNOWN UNDERGROUND UTILITIES. NOTIFY ENGINEER IMMEDIATELY IF ANY ELEMENTS ARE DISCOVERED THAT WOULD NECESSITATE A REVISION TO THE DESIGN.
- ALL UTILITIES OR STRUCTURES NOT DESIGNATED FOR REMOVAL OR MODIFICATION ARE TO REMAIN AND BE PROTECTED. ALL UTILITIES OR STRUCTURES DESIGNATED FOR MODIFICATION SHALL BE PROTECTED BY THE CONTRACTOR DURING CONSTRUCTION.
- THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES IS APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL ILLUSTRATED UNDERGROUND UTILITIES AND PROPOSED UTILITY CROSSINGS. THE CONTRACTOR SHALL EXERCISE REASONABLE EFFORTS TO PROTECT ANY UNKNOWN UNDERGROUND UTILITIES. NOTIFY ENGINEER IMMEDIATELY IF ANY ELEMENTS ARE DISCOVERED THAT WOULD NECESSITATE DESIGN REVISIONS.
- CONTACT THE TOWN OF SPRING HOPE PUBLIC WORKS DEPARTMENT (252-478-5186) PRIOR TO TERMINATING OR INSTALLING WATER OR SEWER CONNECTIONS. ALL CONSTRUCTION, MATERIALS AND SANITATION PROCEDURES SHALL MEET OR EXCEED THE REQUIREMENTS OF THE NORTH CAROLINA PLUMBING CODE AND THE TOWN OF SPRING HOPE STANDARDS, SPECIFICATIONS AND DETAILS. ALL UTILITY WORK TO BE PERFORMED BY LICENSED UTILITY CONTRACTOR.

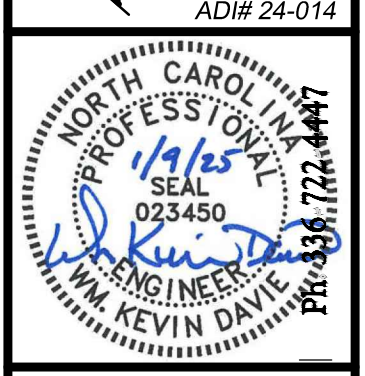
- CONDUCT DEMOLITION OPERATIONS TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT BUILDINGS AND FACILITIES TO REMAIN. ENSURE SAFE PASSAGE OF PEOPLE AROUND DEMOLITION AREA. PROTECT EXISTING SITE IMPROVEMENTS, APPURTENANCES AND LANDSCAPING TO REMAIN.
- USE WATER MIST, TEMPORARY ENCLOSURES AND OTHER SUITABLE METHODS TO LIMIT THE SPREAD OF DUST AND DIRT. COMPLY WITH GOVERNING ENVIRONMENTAL PROTECTION REGULATIONS. DO NOT CREATE HAZARDOUS OR OBJECTIONABLE CONDITIONS, SUCH AS ICE, FLOODING AND POLLUTION, WHEN USING WATER. REMOVE AND TRANSPORT DEBRIS IN A MANNER THAT WILL PREVENT SPILLAGE ON ADJACENT SURFACES AND AREAS.
- CONTRACTOR SHALL REMOVE AND LEGALLY DISPOSE OF DEMOLISHED ITEMS AND MATERIALS PROMPTLY. ON-SITE STORAGE OR SALE OF REMOVED ITEMS IS PROHIBITED. ON-SITE BURNING OF DEMOLISHED MATERIALS WILL NOT BE ALLOWED.
- SALVAGEABLE FILL MATERIALS FROM SITE DEMOLITION DETERMINED ACCEPTABLE BY AN INDEPENDENT SOILS TESTING LABORATORY MAY BE UTILIZED FOR FILL MATERIAL WHERE APPROPRIATE.
- NO SIGNAGE SHALL BE REMOVED TEMPORARILY OR PERMANENTLY FROM THE PUBLIC RIGHT-OF-WAY. SIGNAGE SHALL BE PROTECTED DURING ALL CONSTRUCTION ACTIVITIES. ANY SIGNS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED AT CONTRACTOR'S EXPENSE.
- ALL EXISTING TREES NOT DESIGNATED FOR REMOVAL SHALL REMAIN AND BE PROTECTED DURING ALL CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL PROVIDE TREE PROTECTION FENCING TO PROTECT EXISTING ROOT SYSTEM AND CANOPY BY SETTING FENCING BACK ONE FOOT RADIUS FOR EACH INCH OF DIAMETER OF TREE.
- ALL POWER POLES, GUY WIRES AND OVERHEAD LINES NOT DESIGNATED FOR REMOVAL SHALL REMAIN AND BE PROTECTED DURING ALL CONSTRUCTION ACTIVITIES.
- EXISTING WATER CONNECTIONS NOT INTENDED FOR REUSE SHALL BE TERMINATED AT THE WATER MAIN. 1/2" THROUGH 2" CONNECTIONS SHALL BE CUT-OFF AT THE CORPORATION AND THE SERVICE LINE CUT THROUGH AT THE CORPORATION. LARGER CONNECTIONS SHALL HAVE THE TAPPING SLEEVE AND VALVE OR TEE REMOVED AND REPLACED WITH MECHANICAL JOINT SLEEVES AND PIPE INSTALLED TO THE TOWN OF SPRING HOPE STANDARDS. VAULTS OR BOXES SHALL BE PROPERLY REMOVED OR DEMOLISHED. EXISTING SEWER CONNECTIONS NOT INTENDED FOR REUSE SHALL BE ABANDONED BY REMOVING THE CLEANOUT STACK, REMOVING THE LATERAL PIPE TO THE MAIN AND INSTALLING A WATER TIGHT PLUG AT THE TAPPING SADDLE OR WYE. CONNECTIONS INTENDED FOR REUSE ARE SUBJECT TO ASSESSMENT AND UPGRADE.

- KEYNOTES**
- (A) EXISTING BRICK PLANTER AND FILL MATERIAL TO BE REMOVED.
 - (B) OVERHEAD UTILITY LINES TO BE REMOVED OR REROUTED AS NECESSARY TO ACCOMMODATE NEW CONSTRUCTION. CONTRACTOR TO COORDINATE WITH UTILITY PROVIDERS FOR REMOVAL AND SCHEDULE. REFER TO CONTRACT DOCUMENTS FOR BIDDING INSTRUCTIONS RELATED TO FEES.
 - (C) EXISTING ELECTRICAL PANEL TO BE DISCONNECTED AND EQUIPMENT REMOVED FROM POLE. VERIFY THE PANEL NO LONGER PROVIDES SERVICE TO ANY REMAINING BUILDINGS IN SERVICE. COORDINATE REMOVAL WITH OWNER AND DUKE ENERGY. COORDINATE WITH OWNER FOR COMPONENTS THAT MAY BE SALVAGEABLE.
 - (D) COORDINATE WITH UTILITY PROVIDER FOR REMOVAL OR RELOCATION OF EXISTING UTILITY POLE WITH STREET LIGHT.
 - (E) EXISTING WATER METER AND WATER SERVICE LINE TO OUTDOOR FAUCETS TO REMAIN. RE-ROUTE SERVICE LINE TO FAUCETS TO BEYOND THE LIMITS OF NEW BUILDING AND FOOTINGS.
 - (F) EXISTING OUTDOOR FAUCETS TO BE REMAIN IN SERVICE (LOCATIONS ARE APPROXIMATE). LOCATE AND REROUTE THE EXISTING 3" WATER LINE (AND VALVE) THAT ARE LOCATED WITHIN THE LIMITS OF THE NEW PLATFORM.
 - (G) EXISTING YARD HYDRANT TO BE REMOVED.
 - (H) EXISTING WATER METER AND WATER SERVICE LINE TO BE REMOVED. REMOVE EXISTING PIPE TO CORPORATION/TAP AT WATER MAIN. SAW CUT EXISTING PAVEMENT AND CURB AND GUTTER AS REQUIRED FOR LINE REMOVAL. COORDINATE WITH TOWN FOR ASPHALT PATCHING. CONCRETE REPAIRS TO BE PROVIDED BY CONTRACTOR. SIDEWALK, CURB & GUTTER TO MATCH EXISTING.
 - (I) EXISTING SANITARY SEWER SERVICE AND CLEANOUTS TO BE REMOVED FROM BENEATH DEPOT TO RIGHT OF WAY AND CAPPED. SEE SITE UTILITY PLAN AND PLUMBING PLANS FOR PROPOSED SANITARY SEWER IMPROVEMENTS. COORDINATE WITH TOWN FOR ABANDONMENT OF SERVICE CONNECTION NORTH OF RAILROAD TRACKS.
 - (J) EXISTING RAMPS/STEPS DESIGNATED FOR REMOVAL OR MODIFICATION. REFER TO ARCHITECTURAL PLANS (A1.1).
 - (K) EXISTING CONCRETE SIDEWALK/LANDING TO BE REMOVED TO ACCOMMODATE NEW RAMP AND ACCESSIBLE GRADES. SAW CUT EXISTING CONCRETE/RAMP/STEPS/STOOP TO PROVIDE STRAIGHT AND UNIFORM LINE FOR REMOVAL.
 - (L) EXISTING PAD FOR MECHANICAL EQUIPMENT TO BE REMOVED. REFER ALSO TO ARCHITECTURAL PLANS (A1.1).
 - (M) EXISTING SHRUB/TREE TO BE REMOVED.
 - (N) TEMPORARY, PERIMETER CONSTRUCTION FENCING. REFER TO ADD-ALTERNATE 4 IN ARCHITECTURAL SPECIFICATIONS.
- EROSION CONTROL LEGEND & KEY NOTES**
(6.XX = STD. PRACTICE, FROM NC E&S MANUAL; <1 ACRE, PERMIT NOT REQUIRED)
- (6.06) NEW TEMPORARY CONSTRUCTION ENTRANCE/EXIT.
 - (6.62) NEW TEMPORARY SEDIMENT FENCE.
 - TEMPORARY INLET PROTECTION - SILT SACK. REMOVE CURB FILTER FOR DROP INLETS. FOR PUBLIC CURB INLETS, COORDINATE WITH THE TOWN.

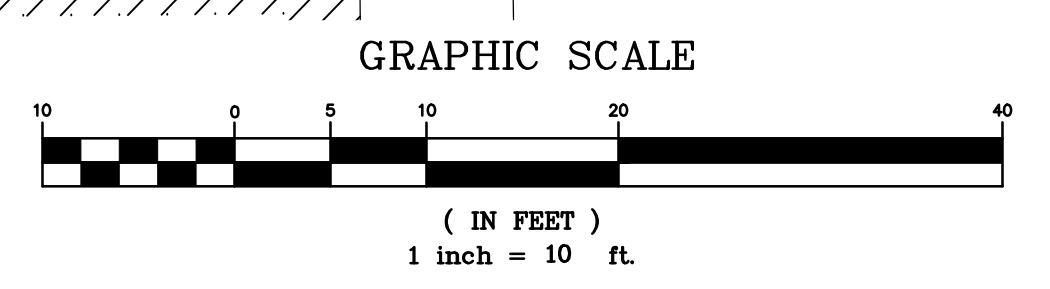
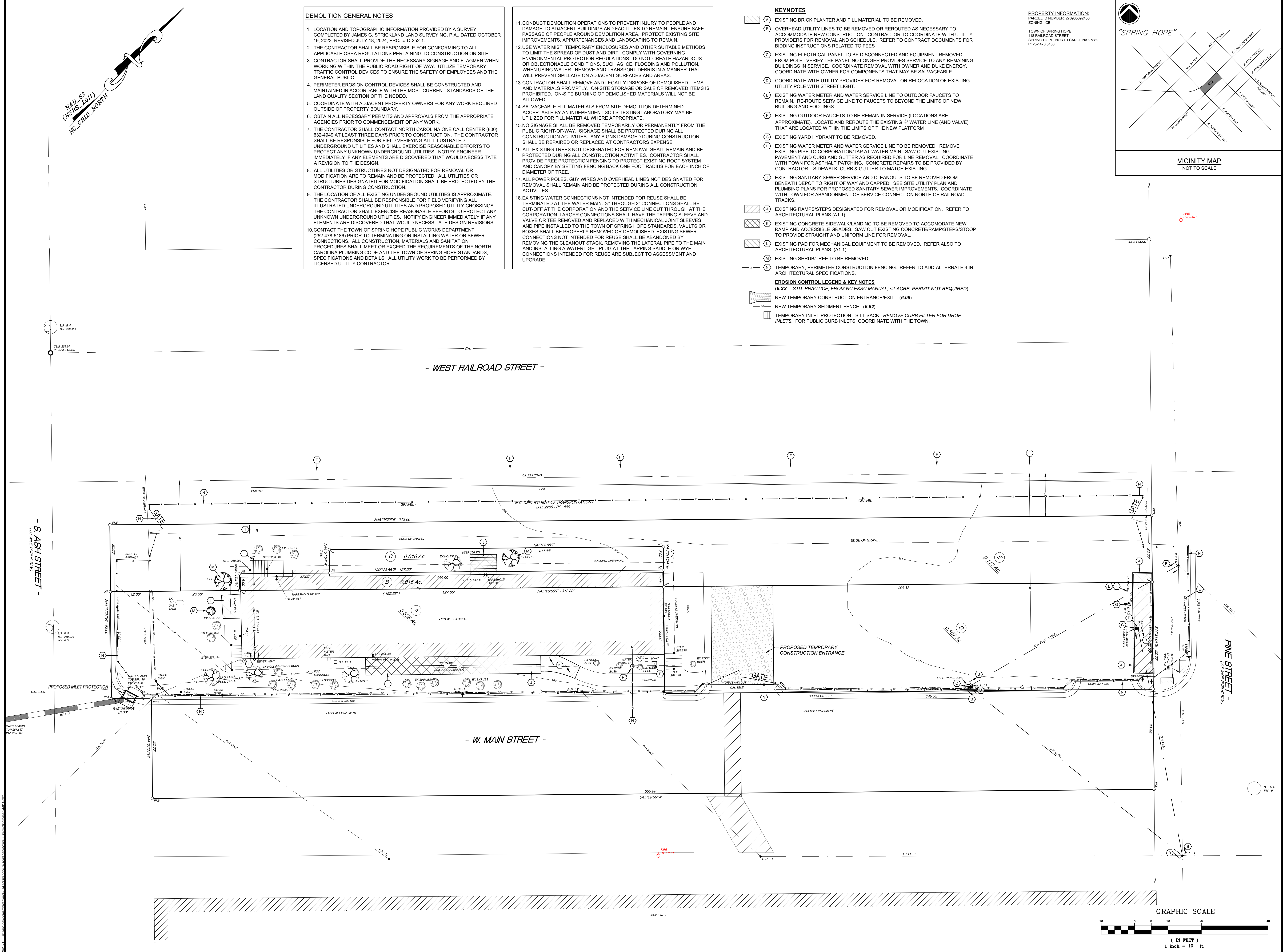
PROPERTY INFORMATION
PARCEL ID NUMBER 276905022450
ZONING: CB
TOWN OF SPRING HOPE
118 RAILROAD STREET
SPRING HOPE, NORTH CAROLINA 27882
P: 252.478.5186



Allied Design, Inc.
CIVIL ENGINEERING & LAND SURVEYING
4720 KESTER MILL ROAD
WINSTON-SALEM, NORTH CAROLINA 27103
P: 703.766.9887
F: 703.766.9888
http://www.allied-engineer.com
FIRM LICENSE: C-1981



LLIANCE ARCHITECTURE OF THE TRIAD
ARCHITECTS
101 South Ash Street
Spring Hope, North Carolina 27882
P: 252.478.5186
F: 252.478.5187
www.lliance.com



REVISIONS

NO.	DATE	DESCRIPTION

SPRING HOPE RAILROAD DEPOT
Building Rehabilitation & Platform Addition
101 South Ash Street
Spring Hope, North Carolina 27882

JOB: 23081
DATE: October 16, 2024
DRAWN:
SHEET: SITE EXISTING CONDITIONS & DEMOLITION PLAN
C1

NAD 83
(NCRS 2011)
NC_GRID_NORTH

- UTILITY CONNECTION NOTES FOR BUILDING PLANS**
- GENERAL:**
- CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION.
 - STABILIZATION STONE UNDER PIPING TO BE PLACED AS REQUIRED BY TOWN INSPECTOR WHEN CONDITIONS WARRANT.
 - AS A MINIMUM REQUIREMENT, ALL GRADED AREAS NOT UNDER PAVEMENT AND WITHIN THE RIGHT-OF-WAY AND/OR EASEMENTS SHALL BE PREPARED, FERTILIZED AND LIMED, SEEDED, AND MULCHED IMMEDIATELY UPON COMPLETION OF CONSTRUCTION.
 - ALL WORK MUST CARRY A ONE-YEAR WARRANTY TO COVER ALL DEFECTS IN MATERIALS AND WORKMANSHIP.
 - CONTACT TOWN OF SPRING HOPE PUBLIC WORKS DEPARTMENT (252-478-5186) TO ARRANGE FOR CONSTRUCTION INSPECTION. A TOWN INSPECTOR WILL VERIFY PER THE APPROVED PLANS THAT THE BACKFLOW PREVENTER TYPE, VAULT, EXACT LOCATION, AND INSPECTION REQUIREMENTS HAVE BEEN SATISFIED. A TOWN INSPECTOR MUST BE PRESENT WHEN MAKING OR TERMINATING WATER AND SEWER CONNECTIONS INTO NEW OR EXISTING WATER AND SEWER LINES.
 - ALL CONSTRUCTION, MATERIALS, AND SANITATION PROCEDURES SHALL MEET OR EXCEED THE REQUIREMENTS OF THE CURRENT NORTH CAROLINA PLUMBING CODE AND THE TOWN OF SPRING HOPE.
 - CROSS-CONNECTION CONTROL PROTECTION DEVICES ARE REQUIRED BASED ON DEGREE OF HEALTH HAZARD INVOLVED AS LISTED IN APPENDIX B OF THE RULES GOVERNING PUBLIC WATER SYSTEMS IN NORTH CAROLINA. THESE GUIDELINES ARE THE MINIMUM REQUIREMENTS. THE DEVICES SHALL MEET AMERICAN SOCIETY OF SANITARY ENGINEERING (ASSE) STANDARDS. THE DEVICES SHALL BE INSTALLED AND TESTED (BOTH INITIAL AND ANNUAL TESTING THEREAFTER) IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS OR THE LOCAL CROSS-CONNECTION CONTROL PROGRAM, WHICHEVER IS MORE STRINGENT.
 - BACKFLOW PREVENTION ASSEMBLY SIZE SHALL MATCH THE DIMENSION OF THE WATER METER.

- FLUSHING OF FIRE LINES MUST BE WITNESSED BY FIRE DEPARTMENT PERSONNEL. COORDINATE WITH THE FIRE DEPARTMENT TO SCHEDULE THESE ACTIVITIES.
 - EXISTING WATER CONNECTIONS NOT INTENDED FOR REUSE SHALL BE TERMINATED AT THE WATER MAIN. 1/2" THROUGH 7" CONNECTIONS SHALL BE CUT-OFF AT THE CORPORATION AND THE SERVICE LINE CUT THROUGH AT THE CORPORATION. LARGER CONNECTIONS SHALL HAVE THE TAPPING SLEEVE AND VALVE OR TEE REMOVED AND REPLACED WITH MECHANICAL JOINT SLEEVES AND PIPE INSTALLED TO THE TOWN OF SPRING HOPE STANDARDS. VAULTS OR BOXES SHALL BE PROPERLY REMOVED OR DEMOLISHED. EXISTING SEWER CONNECTIONS NOT INTENDED FOR REUSE SHALL BE ABANDONED BY REMOVING THE CLEANOUT STACK, REMOVING THE LATERAL PIPE TO THE MAIN AND INSTALLING A WATERTIGHT PLUG AT THE TAPPING SADDLE OR WYE. CONNECTIONS INTENDED FOR REUSE ARE SUBJECT TO ASSESSMENT AND UPGRADE.
- 11. CONTRACTOR TO FLUSH/INSPECT PRIVATE WATER LINES IN ACCORDANCE WITH THE NC PLUMBING CODE.**
- WATER AND/OR SANITARY SEWER:**
- ACCEPTABLE WORKING CONDITIONS OF SANITARY SEWER STRUCTURES AND PIPING SHALL BE VERIFIED BY THE CONTRACTOR AND ALL CONDITIONS FOUND TO BE UNACCEPTABLE SHALL BE REPORTED TO THE SPRING HOPE PUBLIC WORKS DEPARTMENT PRIOR TO ANY CONNECTIONS, EXTENSIONS, OR STRUCTURES BEING INSTALLED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANUP AND REPAIR OF UNACCEPTABLE CONDITIONS THAT RESULT FROM FAILURE TO REPORT SUCH CONDITIONS PRIOR TO COMMENCING WORK OR THAT RESULT FROM WORK BEING PERFORMED.
 - SANITARY SEWER CONNECTIONS SHALL BE SERVICE WEIGHT CAST IRON SOIL PIPE WITH 4-INCH CLEANOUTS AND SHALL MEET TOWN OF SPRING HOPE REQUIREMENTS.

- KEYNOTES**
- NEW STEPS. REFER TO ARCHITECTURAL PLANS (A2.1-2.2).
 - NEW RAMP IN ACCORDANCE WITH ADA ACCESSIBILITY GUIDELINES. REFER TO ARCHITECTURAL PLANS (A2.1-2.2).
 - VERIFY EXISTING PUBLIC SANITARY SEWER INVERT PRIOR TO INSTALLING BUILDING SERVICE(S). COORDINATE WITH ENGINEER TO REVIEW PROPOSED ALIGNMENT AND DEPTH.
 - PROPOSED 4" CAST IRON SANITARY SEWER SERVICE AT 1.0% MINIMUM GRADE TO A POINT 5'-0" FROM BUILDING. PROVIDE TRANSITION GASKET AT CONNECTION IF GOING FROM PVC TO CAST IRON. COORDINATE WITH ARCHITECTURAL/PLUMBING PLANS FOR EXACT LOCATION.
 - PROPOSED 4" CAST IRON CLEAN OUT TO TOWN OF SPRING HOPE STANDARD. PROVIDE TRAFFIC RATED CLEAN OUT WITH REVERSE/FLUSH CAP AND A CONCRETE COLLAR.
 - FIELD CORE EXISTING PRIVATE MANHOLE AND INSTALL FLEXIBLE RUBBER BOOT FOR TIE-IN OF PROPOSED SANITARY SEWER. COORDINATE WITH THE TOWN OF SPRING HOPE PUBLIC WORKS DEPARTMENT. BACKFILL TO BE COMPACTED TO 95% OF MAXIMUM DRY DENSITY.
 - PROVIDE 6"x4" TAPPING SLEEVE AND VALVE. COORDINATE TIE-IN TO EXISTING MAIN WITH THE TOWN OF SPRING HOPE PUBLIC WORKS DEPARTMENT. BACKFILL TO BE COMPACTED TO 100% OF MAXIMUM DRY DENSITY.
 - NEW 4" DIP FIRE PROTECTION SERVICE. A NC LICENSED UTILITY CONTRACTOR SHALL INSTALL THE 4" FIRE LINE WITH DOUBLE CHECK DETECTOR BACKFLOW PREVENTER INSTALLED IN PLATFORM RISER ROOM (REFER TO SHEET F-101). VERIFY RISER ROOM REQUIREMENTS. CONTINUE 4" FIRE PROTECTION LINE TO EXISTING DEPOT BUILDING AS SHOWN. ALL PIPING SHALL BE DUCTILE IRON MECHANICAL RESTRAINED JOINT (OR RESTRAINED WITH MEGA LUG RETAINING GLANDS) FROM THE CONNECTION AT THE MAIN TO THE BUILDING RISER ROOM. WHERE FIRE PROTECTION LINES (MAIN SUPPLY & FDC) GO INTO THE BUILDING, UTILITY CONTRACTOR TO TURN PIPING UP AND CAP 12" ABOVE THE PROPOSED FINISHED FLOOR. COORDINATE WITH ARCHITECTURAL/PLUMBING PLANS FOR EXACT LOCATION. INCLUDE FLUSHING AND STATIC PRESSURE TEST IN ACCORDANCE WITH FIRE SYSTEM REQUIREMENTS IN UTILITY PRICING. COORDINATE WITH GENERAL CONTRACTOR. EXTEND SEPARATE 4" LINE FROM RISER ROOM TO FDC CONNECTION LOCATED WITHIN 100 FEET OF EXISTING PUBLIC FIRE HYDRANT. COORDINATE FDC CONNECTION WITH LOCAL REQUIREMENTS. PROVIDE WAFER CHECK VALVE AND 3/4" BALL DRIP. **UTILITY CONTRACTOR TO COORDINATE WITH GENERAL CONTRACTOR TO MARK RAMP FOUNDATIONS FOR ROUTING UNDERGROUND PIPING TO AVOID**
 - PROPOSED 1 1/2" DOMESTIC WATER CONNECTION (TO 6" WATER MAIN) WITH 1 1/2" NEPTUNE METER AND BOX LOCATED AT RIGHT-OF-WAY AND DOUBLE CHECK VALVE LOCATED WITHIN PLATFORM RISER ROOM TO TOWN OF SPRING HOPE STANDARD. 1 1/2" LINE RUNS FROM THE MAIN TO THE METER BOX WITH 1 1/2" x 1 1/2" REDUCER AFTER THE METER. CONTINUE 1 1/2" LINE TO PLATFORM RISER ROOM. (REFER TO SHEETS P-101 & P-102).
 - PROPOSED 1 1/2" DOMESTIC WATER CONNECTION (TO 6" WATER MAIN) WITH 1 1/2" NEPTUNE METER AND DOUBLE CHECK VALVE LOCATED AT THE RIGHT-OF-WAY TO TOWN OF SPRING HOPE STANDARD. 1 1/2" LINE RUNS FROM THE MAIN TO THE METER BOX WITH 1 1/2" x 1 1/2" REDUCER AFTER THE BACKFLOW. CONTINUE 1 1/2" LINE TO DEPOT. (REFER TO SHEETS P-101 & P-101).
- SAW CUT PAVEMENT AND CURB AND GUTTER TO PROVIDE AND STRAIGHT AND UNIFORM LINE FOR REMOVAL. COORDINATE WITH TOWN FOR PAVEMENT PATCH. PROVIDE REPLACEMENT CURB AND GUTTER AS REQUIRED TO MATCH EXISTING. CONTRACTOR TO OBTAIN STREET CUT PERMIT FROM TOWN OF SPRING HOPE PUBLIC WORKS DEPARTMENT.
- EROSION CONTROL LEGEND & KEY NOTES**
(6.XX = STD. PRACTICE, FROM NC EESC MANUAL; <1 ACRI, PERMIT NOT REQUIRED)
- NEW TEMPORARY CONSTRUCTION ENTRANCE/EXIT. (6.06)
 - NEW TEMPORARY SEDIMENT FENCE. (6.62)
 - TEMPORARY INLET PROTECTION - SILT SACK. REMOVE CURB FILTER FOR DROP INLETS. FOR PUBLIC CURB INLETS, COORDINATE WITH THE TOWN.
- BY OTHERS**
- REPLACE EXISTING HANDICAP RAMP IN ACCORDANCE WITH ADA ACCESSIBILITY GUIDELINES. HANDICAP RAMP SHALL HAVE DETECTABLE WARNINGS INSTALLED IN ACCORDANCE WITH TOWN OF SPRING HOPE REQUIREMENTS.
 - NEW 4" THICK CONCRETE SIDEWALK. REFER TO ARCHITECTURAL PLANS FOR RAMP AND STAIR LOCATIONS AND DETAILS.
 - PROVIDE FOR 6" THICK 4,000 PSI CONCRETE AT EXISTING DRIVEWAY CUT WITH NEW HANDICAP RAMP IN ACCORDANCE WITH ADA ACCESSIBILITY GUIDELINES. HANDICAP RAMP SHALL HAVE DETECTABLE WARNINGS INSTALLED IN ACCORDANCE WITH TOWN OF SPRING HOPE REQUIREMENTS. PROVIDE PEDESTRIAN CROSSING TO EXISTING ACCESSIBLE PARKING SPACES (2) LOCATED ON SOUTH SIDE OF W. MAIN STREET. COORDINATE ALL WORK WITH TOWN OF SPRING HOPE PUBLIC WORKS.
 - PROVIDE REPLACEMENT SIDEWALK AS REQUIRED TO MATCH EXISTING CONDITIONS.

PROPERTY INFORMATION:
PARCEL ID NUMBER: 27690502450
ZONING: CB

TOWN OF SPRING HOPE
118 RAILROAD STREET
SPRING HOPE, NORTH CAROLINA 27882
P: 252.478.5186

REVIEW INFORMATION:
TYPE OF REVIEW: BUILDING PERMIT
JURISDICTION: TOWN OF SPRING HOPE

SITE SIZES & COVERAGES:
TOTAL ACREAGE: 0.575 ACRES
SITE COVERAGE: (100% ALLOWABLE)
BUILDING TO LAND: 22.01%
PAVEMENT TO LAND: 53.83%
OPEN SPACE: 24.21%
TOTAL: 100.00%
BUILDING SQUARE FOOTAGE: 1,660 SF

ZONING:
EXISTING ZONING: CB (NO CHANGE)
USES: COMMUNITY CENTER, GOVERNMENT OFFICE, LIMITED EVENT VENUE, OFFICE, PUBLIC

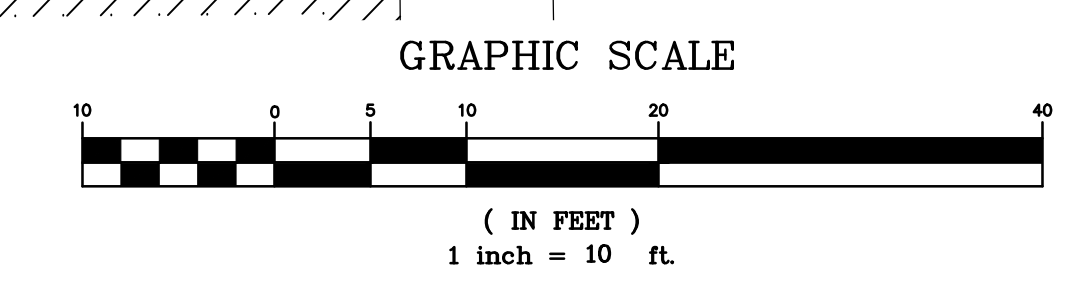
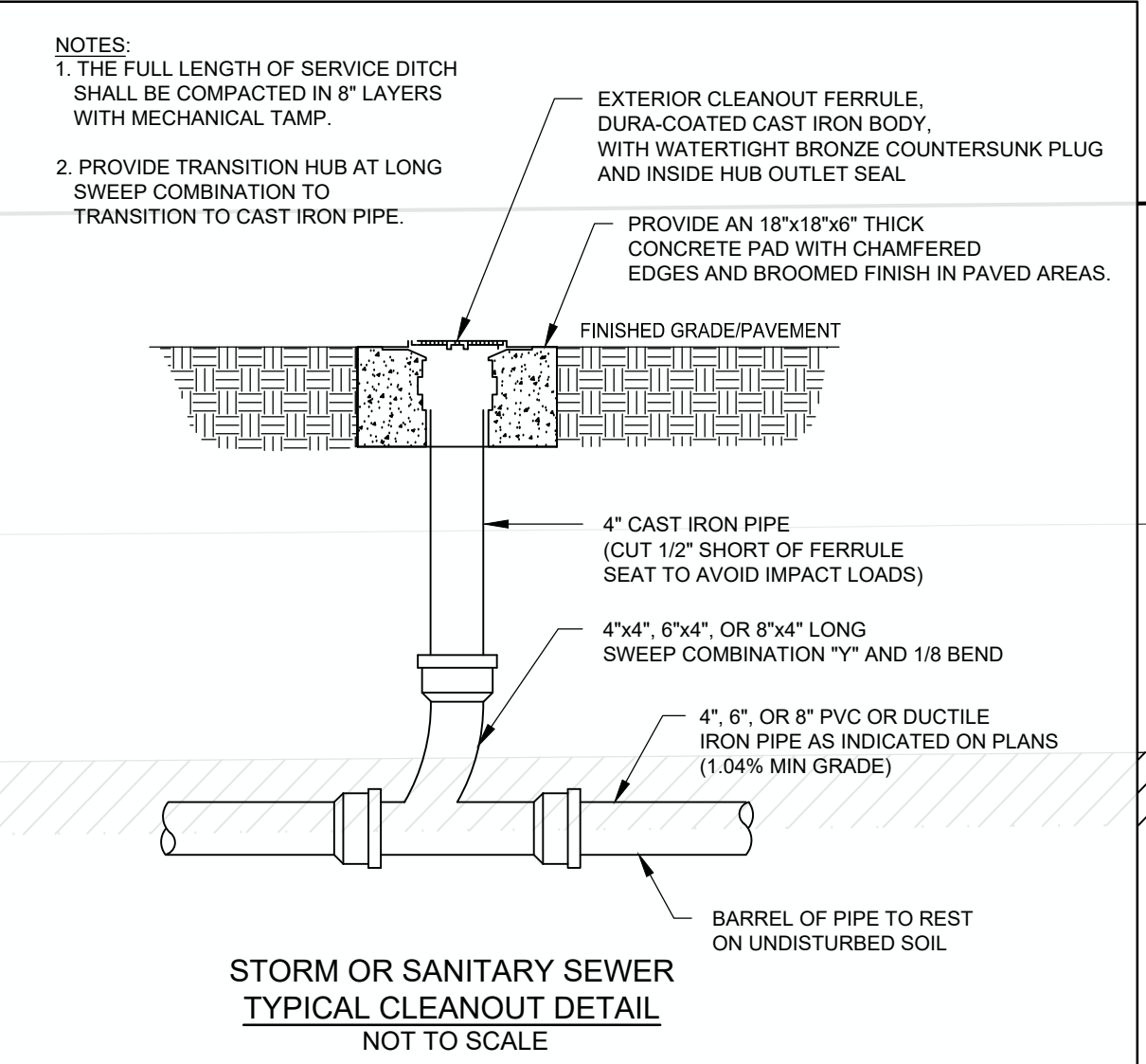
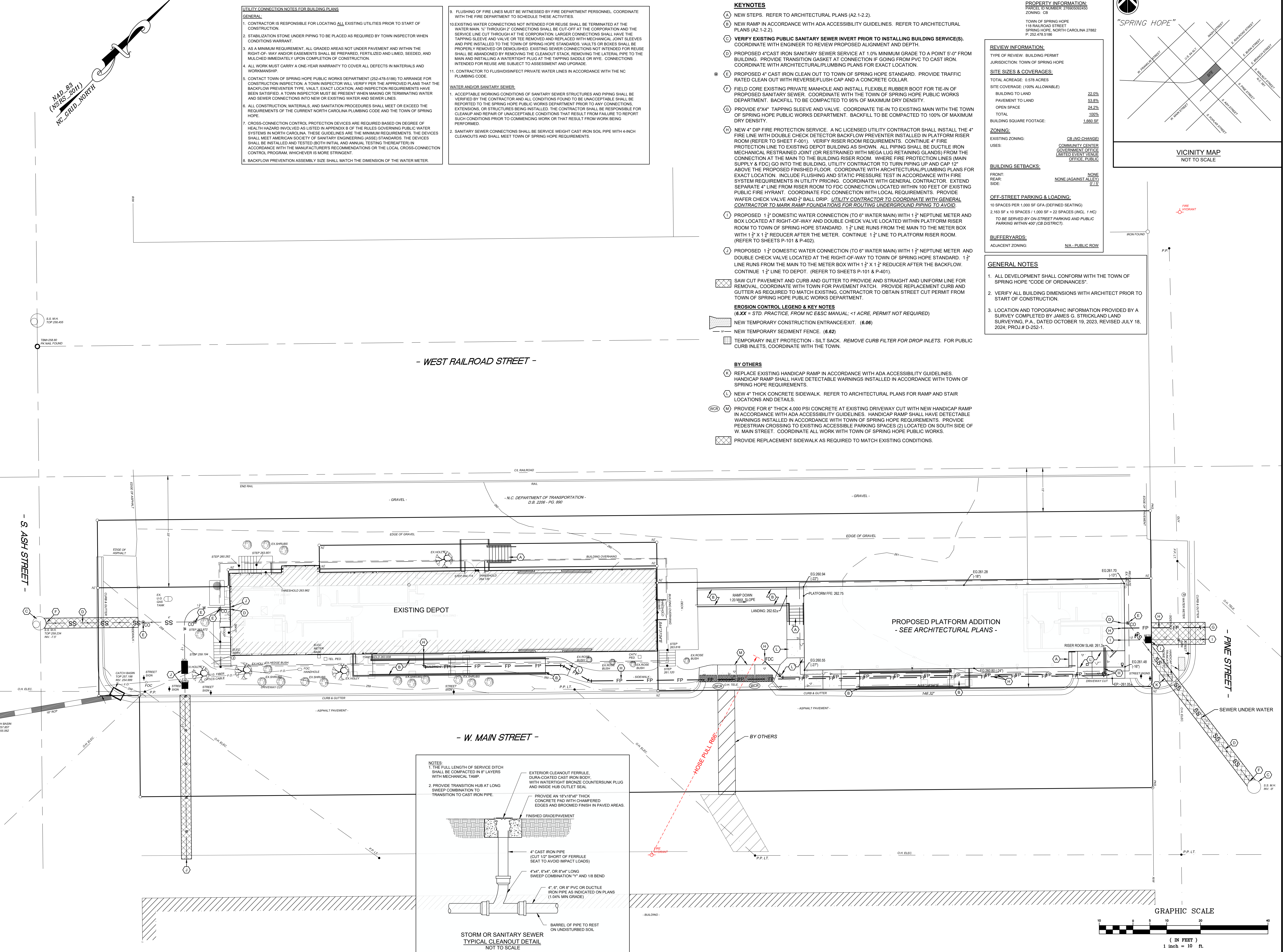
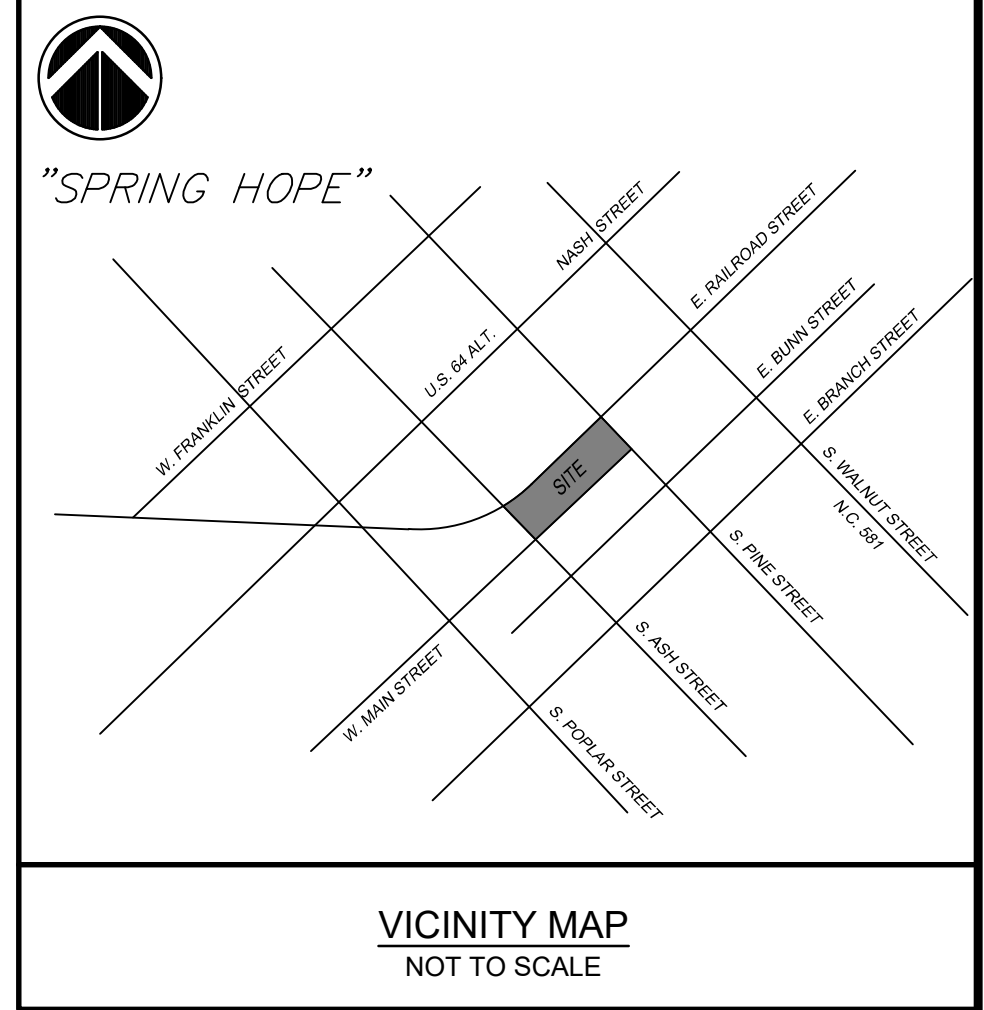
BUILDING SETBACKS:
FRONT: NONE (AGAINST ALLEY)
REAR: NONE (AGAINST ALLEY)
SIDE: 0' / 5'

OFF-STREET PARKING & LOADING:
10 SPACES PER 1,000 SF GFA (DEFINED SEATING)
2,163 SF x 10 SPACES / 1,000 SF = 22 SPACES (INCL. 1 HC)
TO BE SERVED BY ON-STREET PARKING AND PUBLIC PARKING WITHIN 400' (CB DISTRICT).

BUFFERYARDS:
ADJACENT ZONING: N/A - PUBLIC ROW

GENERAL NOTES:

- ALL DEVELOPMENT SHALL CONFORM WITH THE TOWN OF SPRING HOPE "CODE OF ORDINANCES".
- VERIFY ALL BUILDING DIMENSIONS WITH ARCHITECT PRIOR TO START OF CONSTRUCTION.
- LOCATION AND TOPOGRAPHIC INFORMATION PROVIDED BY A SURVEY COMPLETED BY JAMES G. STRICKLAND LAND SURVEYING, P.A., DATED OCTOBER 19, 2023, REVISED JULY 18, 2024; PROJ.# D-252-1.



Allied Design, Inc.
CIVIL ENGINEERING & LAND SURVEYING
4720 KESTER MILL ROAD
WINSTON-SALEM, NORTH CAROLINA 27103
P: (336) 760-9888
http://www.allied-engineer.com
FIRM LICENSE: C-1981

ADW 24-014

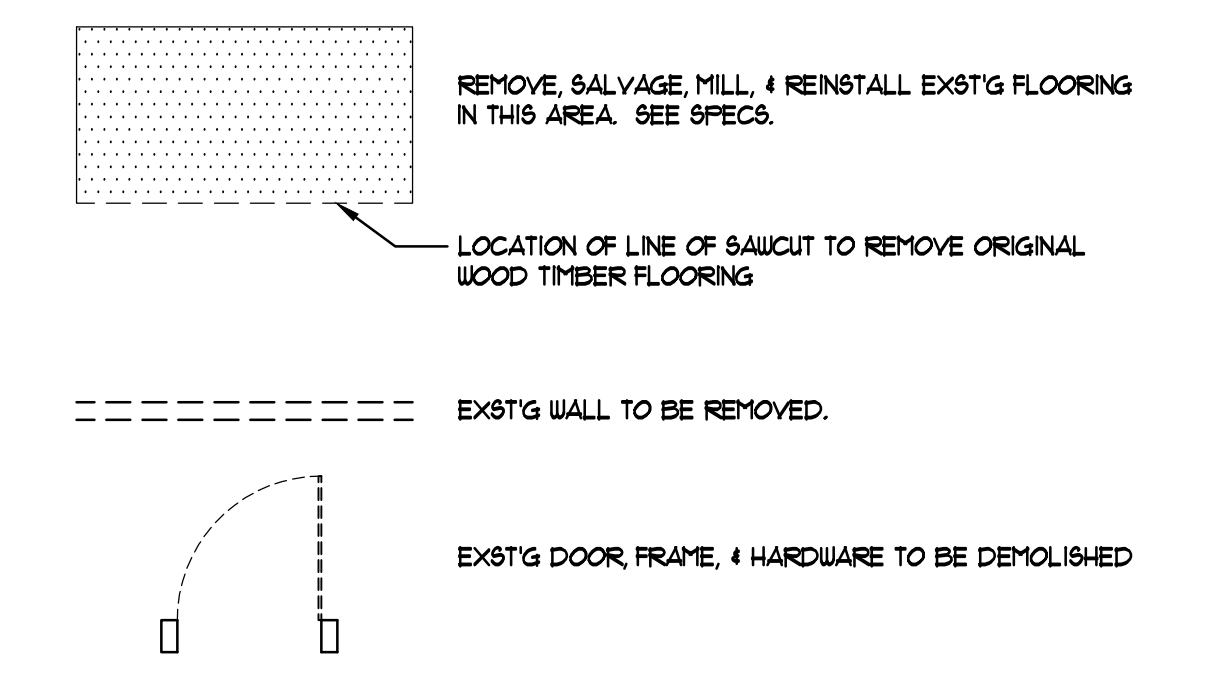
NORTH CAROLINA PROFESSIONAL ENGINEER
JAMES G. STRICKLAND
223450
REVISED JULY 18, 2024
P: 336.760.9888

LLIANCE ARCHITECTURE OF THE TRIAD
P: 336.760.9888 | W. Main Street, Suite 101 | Winston-Salem, NC 27106

SPRING HOPE RAILROAD DEPOT
Building Rehabilitation & Platform Addition
101 South Ash Street
Spring Hope, North Carolina 27882

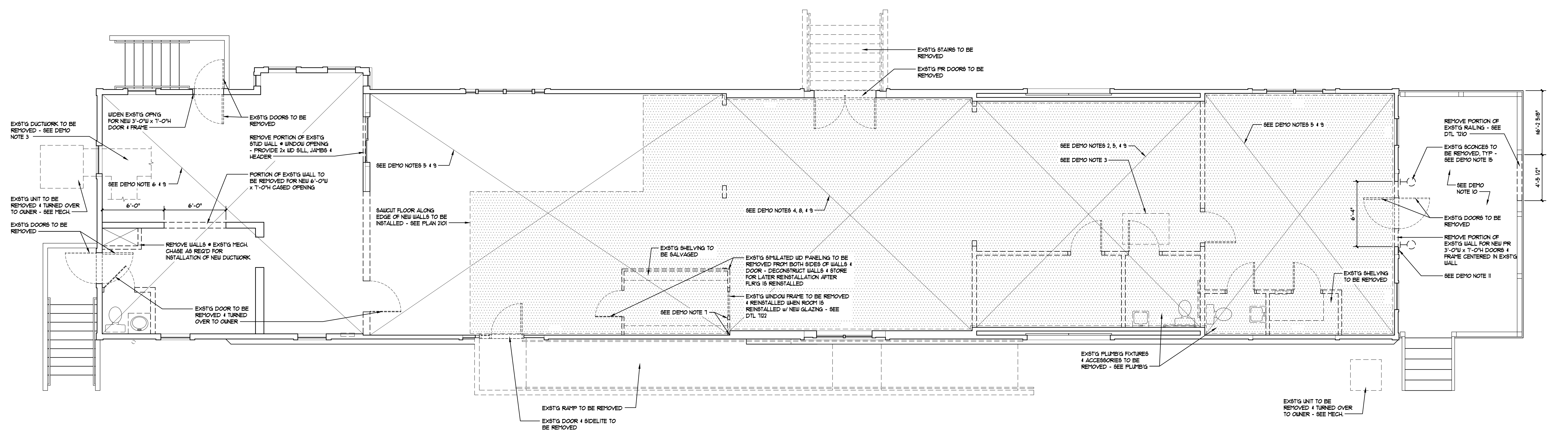
JOB: 23081
DATE: October 16, 2024
DRAWN:
SHEET: SITE LAYOUT & UTILITY PLAN
C2

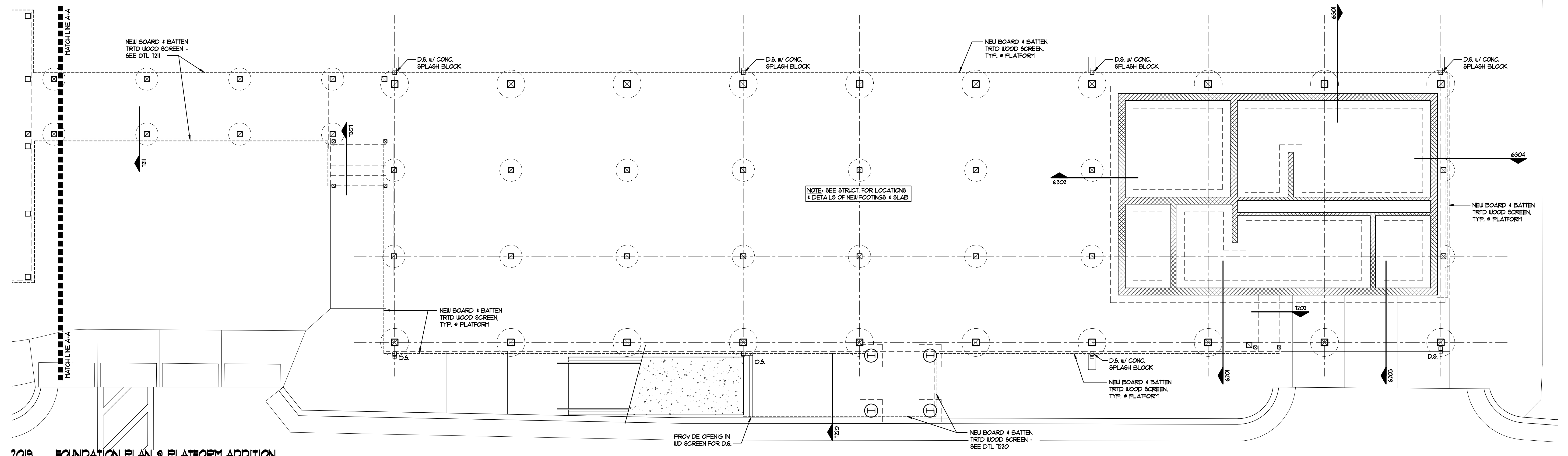
LEGEND



DEMOLITION PLAN NOTES

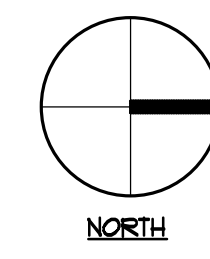
1. EXSTG SIMULATED WOOD PANELING TO BE REMOVED FROM EXSTG WALLS TO REHANG 4 DOORS TO BE REUSED & NEW ROOFING JOIST, JOIS, & JOIS. AVOID DAMAGE TO EXSTG DOOR JOI, WALL FRAMING, WALL SUBSTRATE, & BATT INSULATION.
2. REMOVE EXSTG OSB SHEATHING FROM ATTIC JOIST FRAMING.
3. ALL EXSTG DUCTWORK IN DEPOT, ATTIC, & CRAWLSPACE TO BE REMOVED. ATTIC MECHANICAL UNIT TO BE REMOVED. SEE MECHANICAL DUGS.
4. REMOVE EXSTG SIMULATED BEADED WOOD BOARD PANELS BETWEEN RAFTERS & SUPPORTING WOOD BULKHEAD EXSTG. REMOVE FIBERGLASS INSULATION BEHIND PANELS.
5. REMOVE EXSTG ACOUSTICAL CEILING, GRID, HANGER WIRES, SCREW EYES, AND FIBERGLASS INSULATION.
6. REMOVE EXSTG GYPSUM BOARD CEILING AND CROWN MOLDING TO EXPOSE ORIGINAL BEADED WOOD BOARD CEILING. USE EPOXY CONSOLIDANT TO FILL ANY HOLES IN BEADED WOOD BOARD CEILING AND SAND SURFACE TO PREPARE FOR NEW 3 COAT PAINT APPLICATION. SEE A31 FOR PORTION OF EXSTG BEADED WOOD BOARD CEILING TO BE REMOVED & REINSTALLED FOR WORK IN ATTIC.
7. REMOVE EXSTG CONTEMPORARY WOOD STUDS AND FIBERGLASS INSULATION TO EXPOSE ORIGINAL HORIZONTAL WOOD SIDING BOARDS.
8. REMOVE CONTEMPORARY WOOD CHAIR RAIL FROM FOUR WALLS.
9. REMOVE CONTEMPORARY FLOOR UNDERLAMENT PANELS & NON-STRUCTURAL FRAMING.
10. REMOVE & REINSTALL EXSTG FLOOR BOARDS AS NEEDED TO ACCOMPLISH NEW FOOTING & FRAMING WORK SHOWN ON STRUCTURAL DUGS.
11. REMOVE EXSTG "SPRING HOPE DEPOT 1881" SIGN & TURN OVER TO OWNER.
12. SEE SHEET A51 FOR LOCATIONS OF EXSTG WINDOW GLASS TO BE REMOVED.
13. REMOVE CARPET TACK STRIPS WHERE LOCATED.
14. EXSTG PLANTER & NORTH SIDE OF SITE TO BE REMOVED - SEE A22 & CIVIL.
15. EXSTG LIGHT FIXTURES TO BE REMOVED - SEE ELEC. DUGS



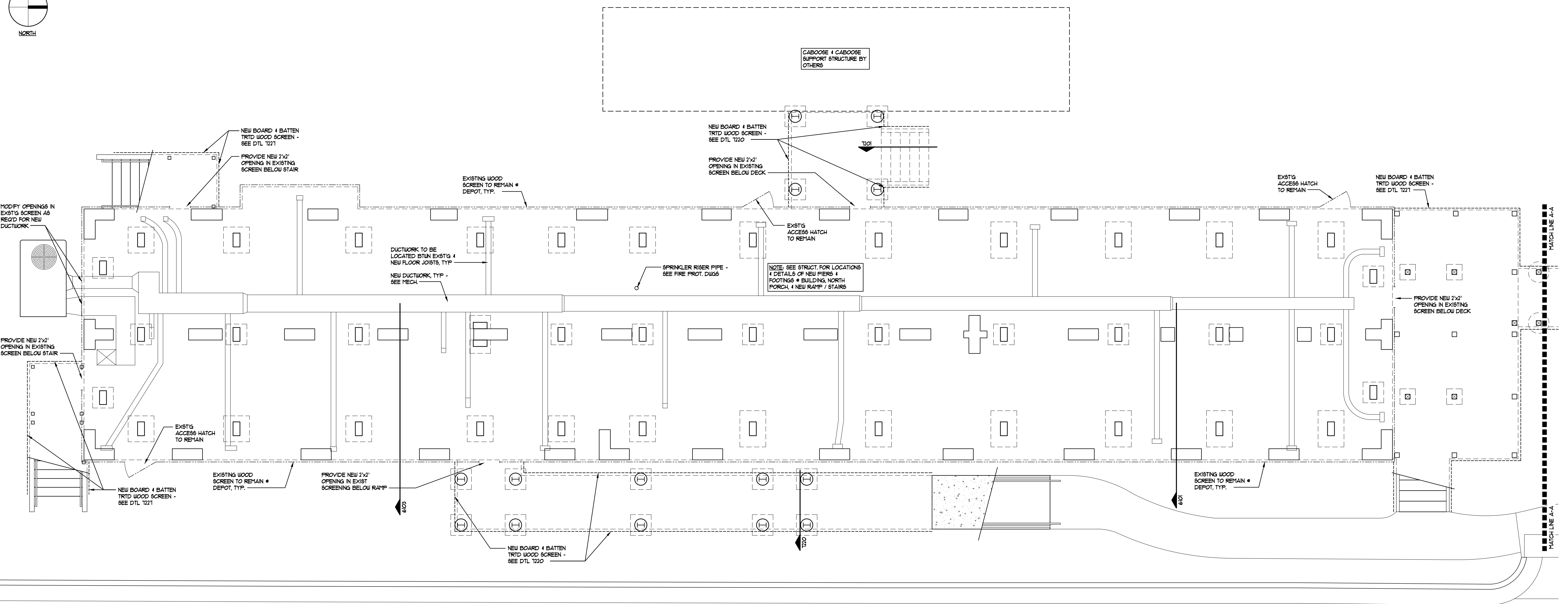


2019 FOUNDATION PLAN & PLATFORM ADDITION
1/4" = 1'-0"

BPO123081



NORTH



2001 FOUNDATION PLAN & DEPOT
1/4" = 1'-0"

BPO123081

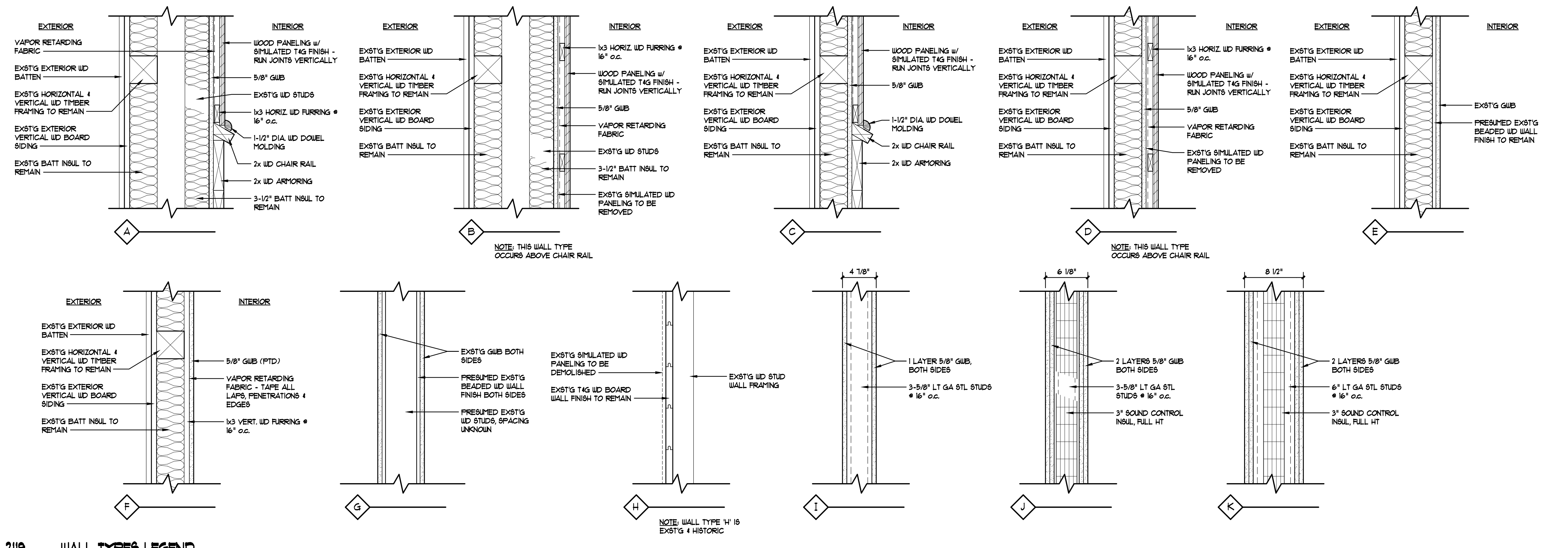


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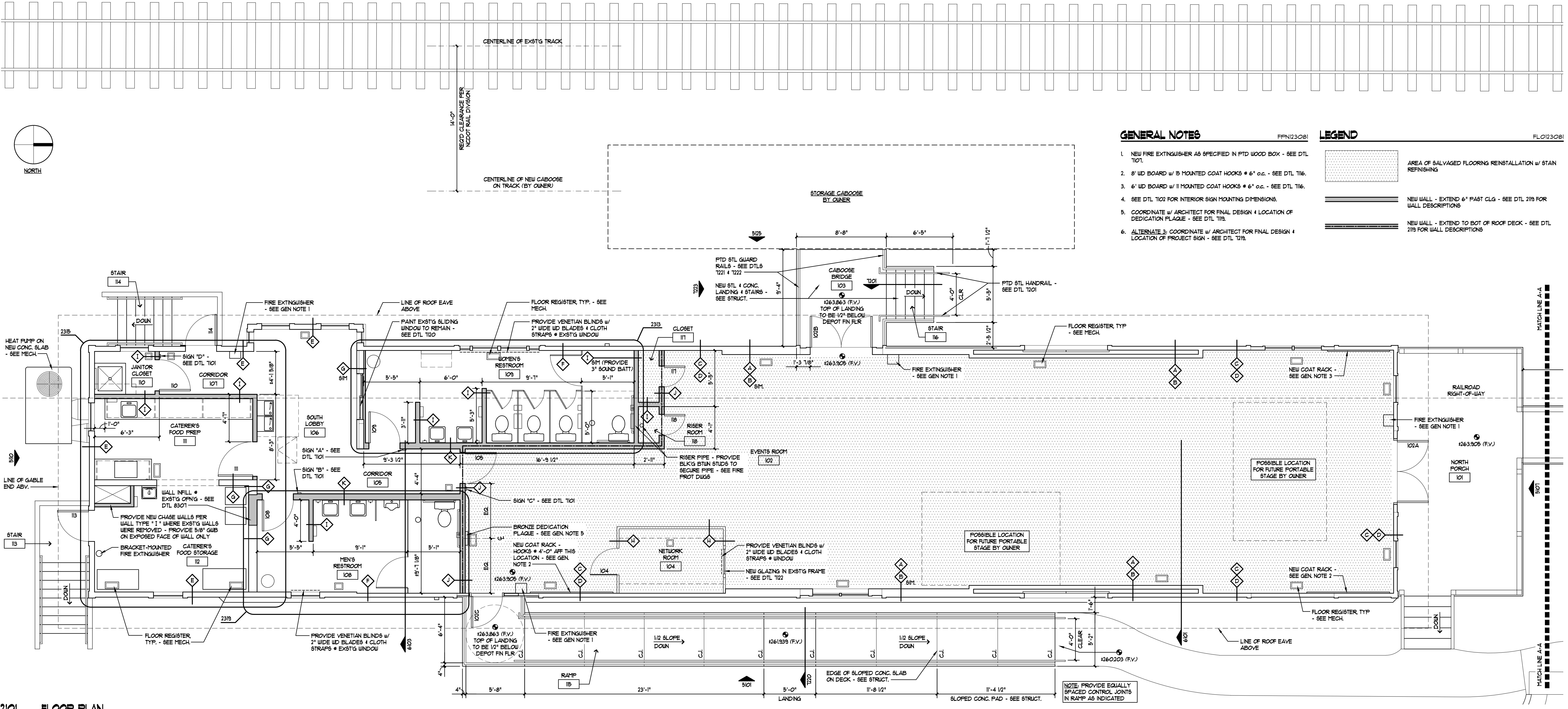
REVISIONS

SPRING HOPE RAILROAD DEPOT
Building Rehabilitation & Platform Addition
101 South Ash Street
Spring Hope, North Carolina 27882

JOB 2206
DATE February 28, 2025
DRAWN T. Doan
SHEET



219 WALL TYPES LEGEND
1-1/2" x 1'-0"



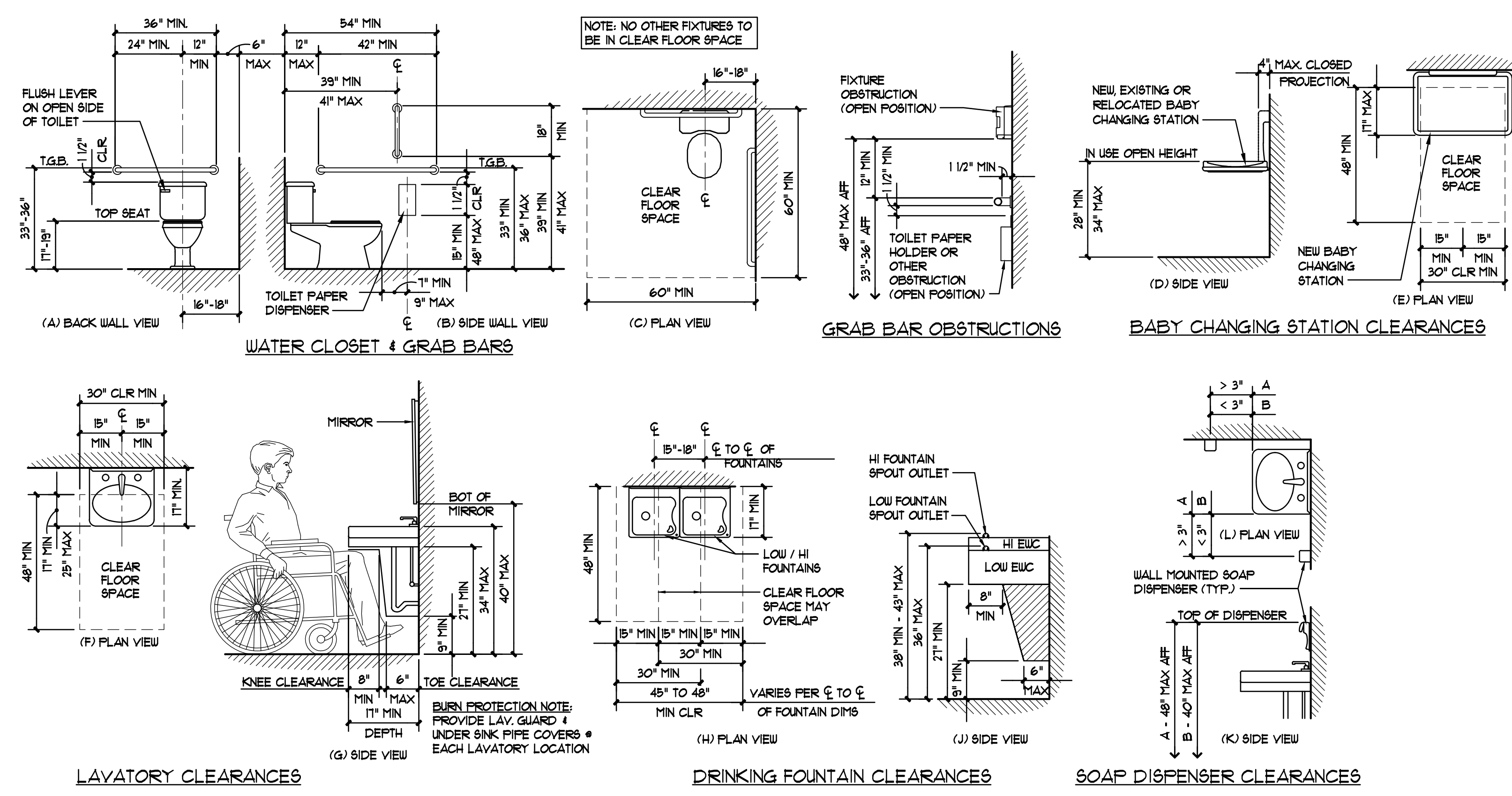
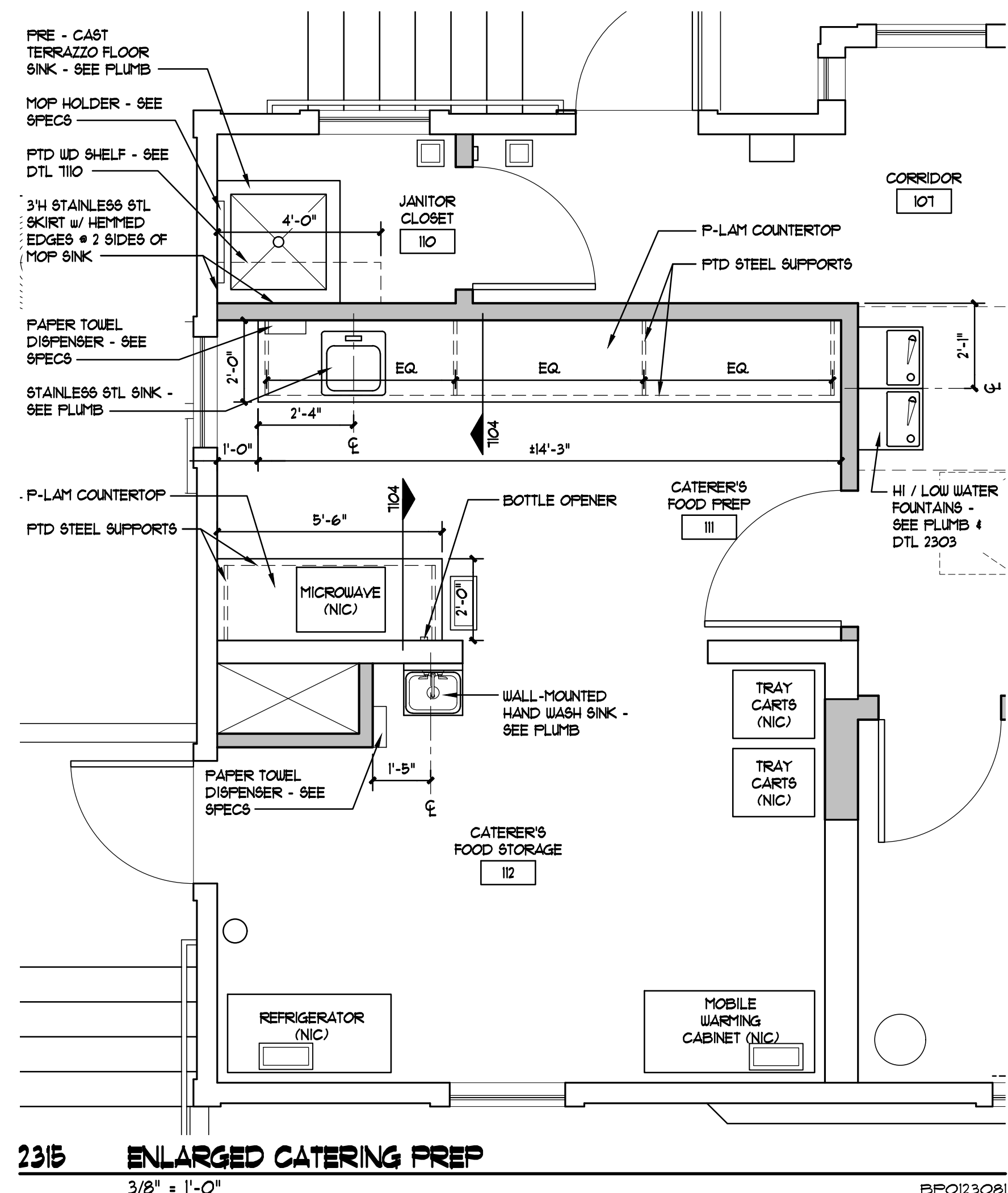
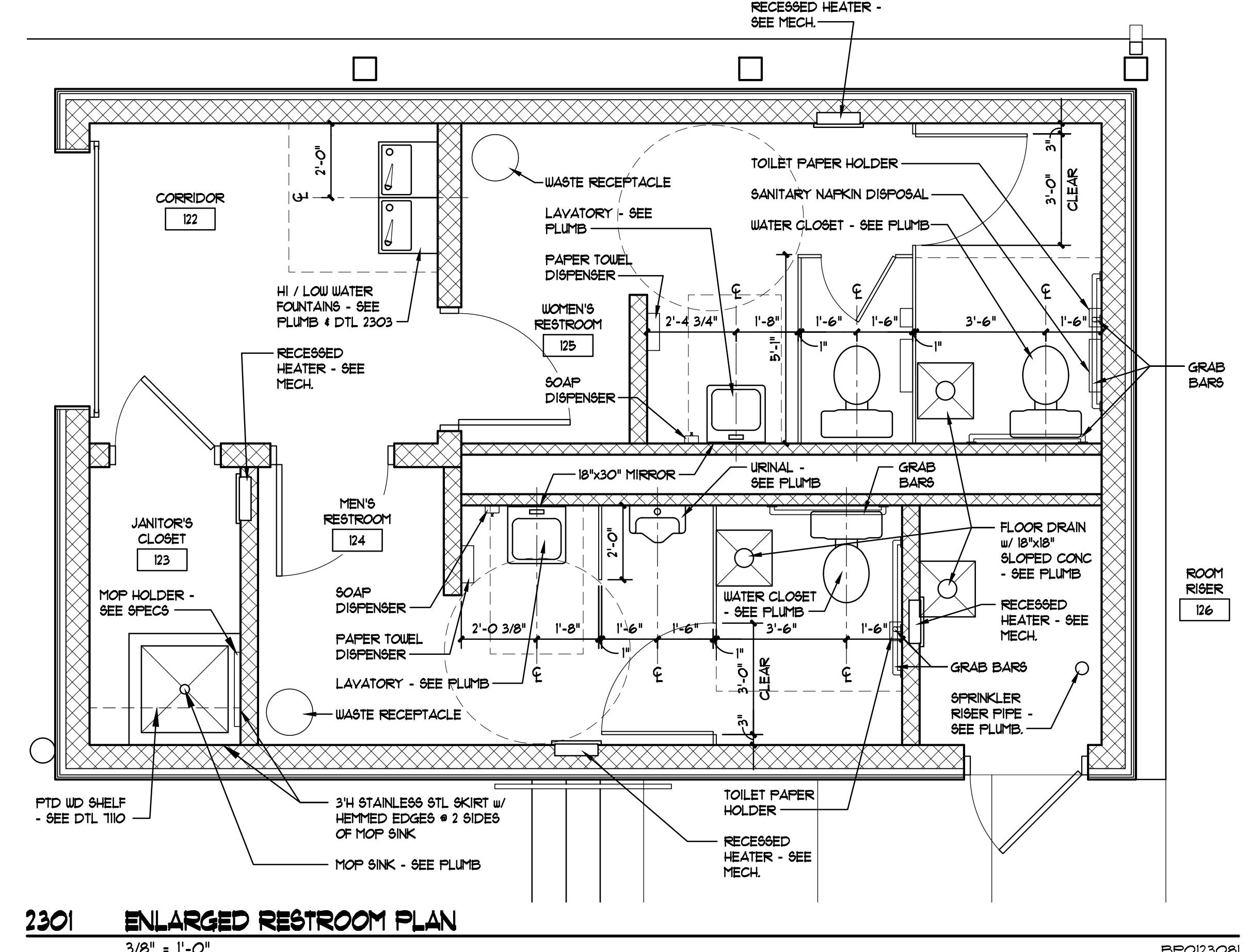
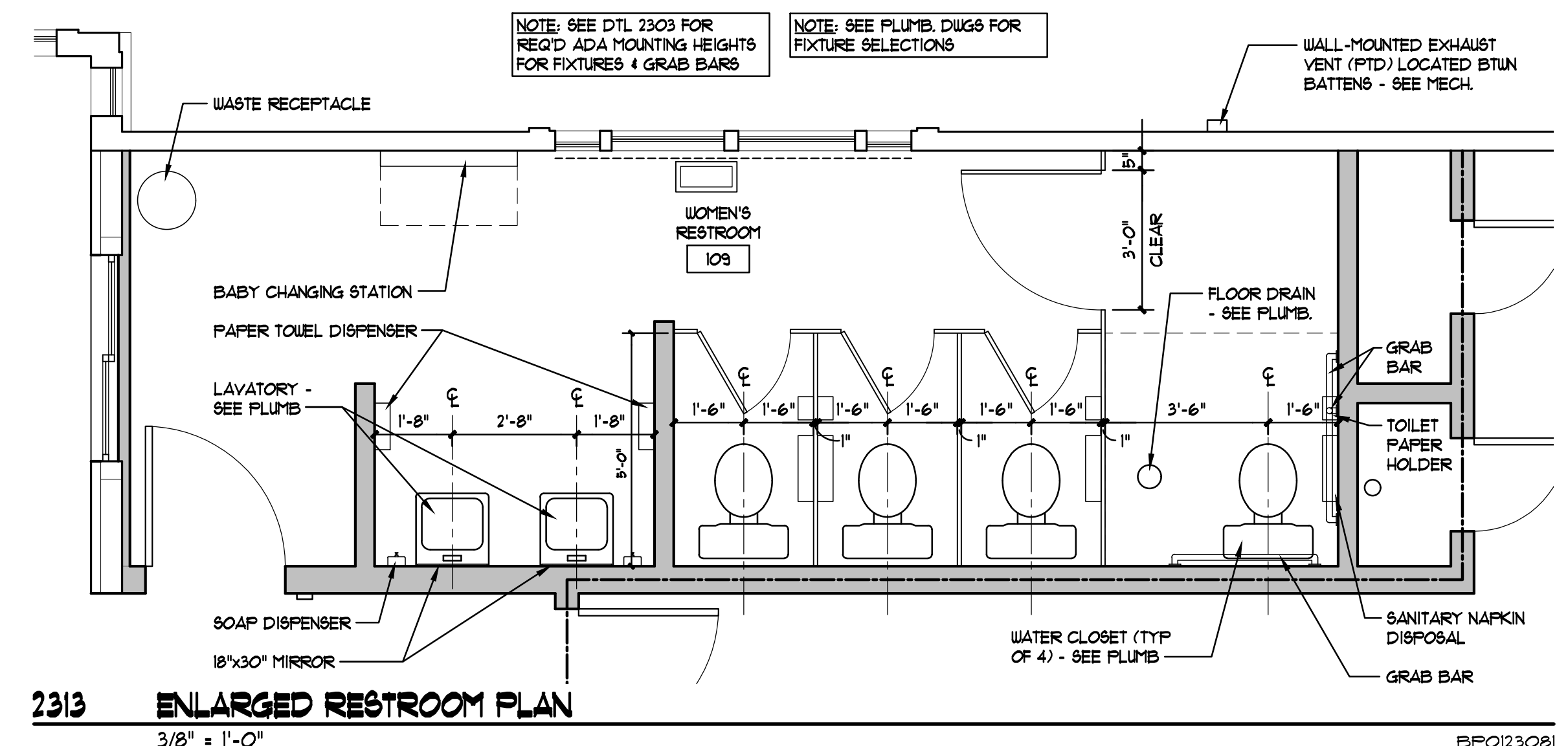
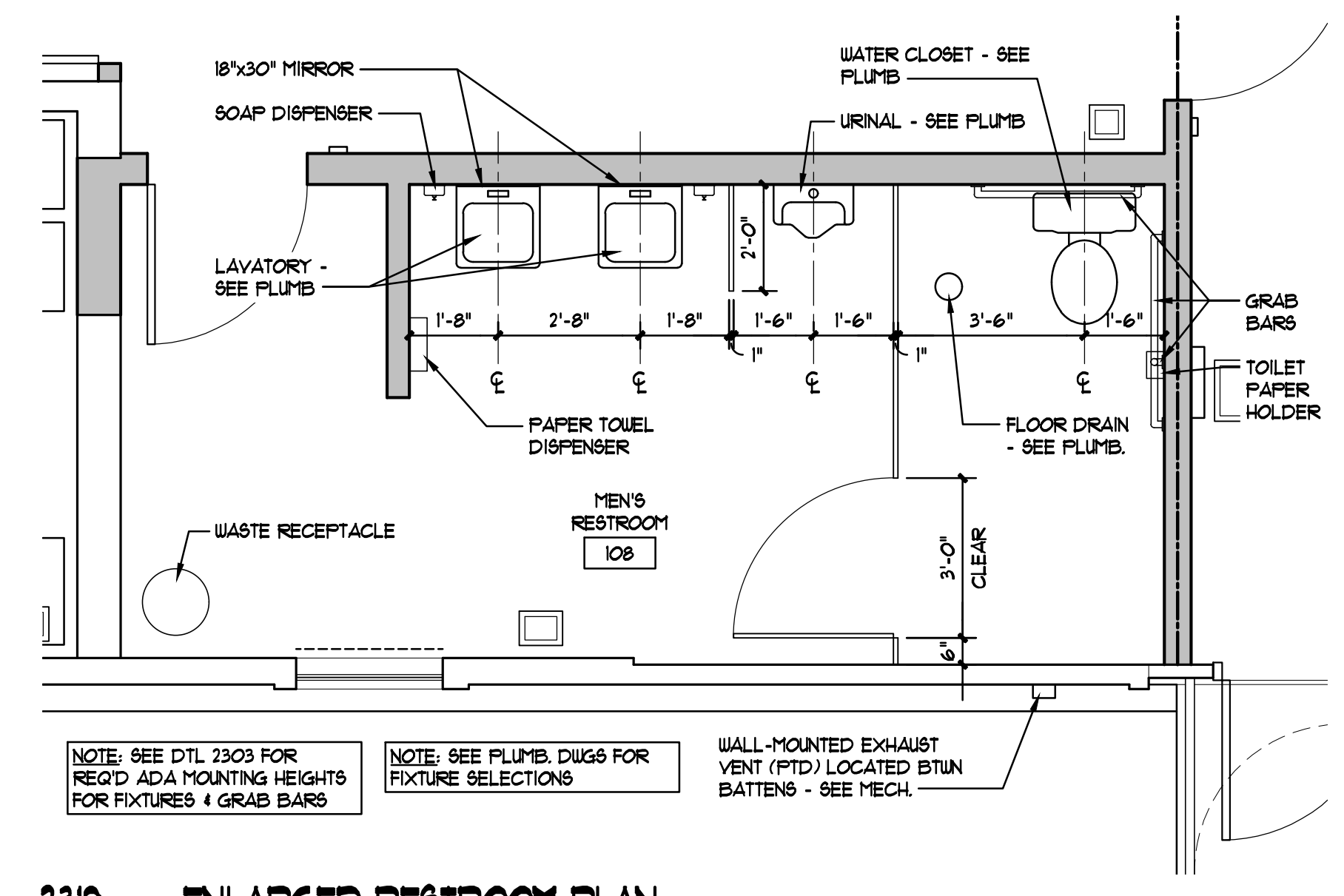
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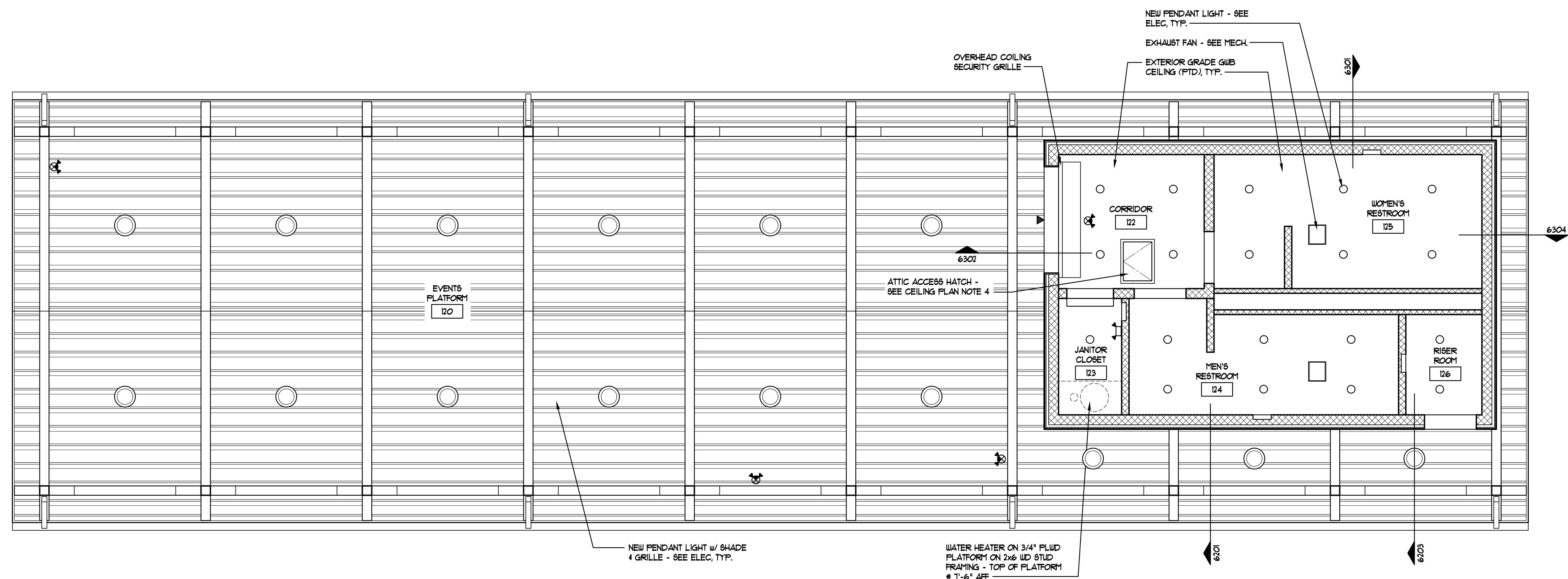
SPRING HOPE RAILROAD DEPOT
Building Rehabilitation & Platform Addition
101 South Ash Street
Spring Hope, North Carolina 27882

JOB: 22061
DATE: February 29, 2025
DRAWN: T. Doan
SHEET: A-21

REVISIONS: [Empty Table]
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ALLIANCE ARCHITECTURE OF THE TRIAD, PC

REVISIONS





313 REFLECTED CEILING PLAN @ PLATFORM

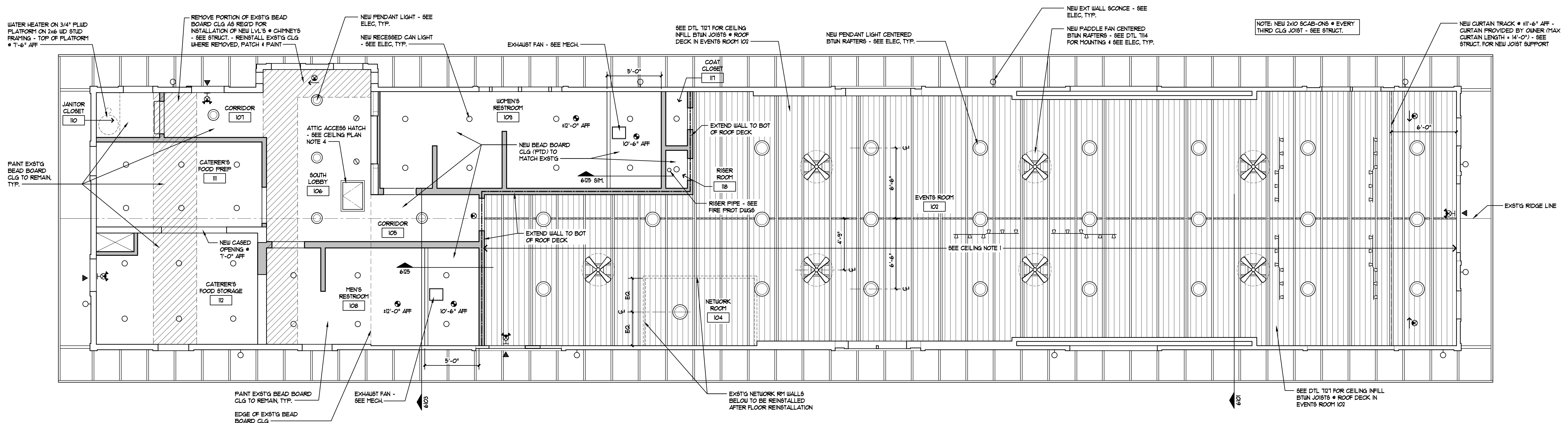
 1/4" = 1'-0"

BPO123081

CEILING PLAN NOTES

RCFN23081

- EXIST'G UNFINISHED CLG JOISTS, RAFTERS, AUXILIARY FRAMING & ROOF DECK TO REMAIN. VACUUM CLEAN ALL DUST & DIRT PARTICLES FROM ALL WOOD & OTHER SURFACES.
- NEW PADDLE FANS @ EXPOSED CEILING TO BE CENTERED BTWN RAFTERS. SEE DTL T14 FOR PADDLE FAN MOUNTING DETAIL & SEE ELEC. FOR FIXTURE SELECTION.
- NEW PENDANT LIGHTS @ EXPOSED CEILING IN DEPOT TO BE CENTERED BTWN RAFTERS. SEE ELEC. FOR FIXTURE SELECTIONS.
- NEW ATTIC ACCESS HATCH - 22"x30" STL CLG ACCESS DOOR & FRAME (PTD) - VERIFY LOCATION OF INSTALLATION w/ ARCHITECT. PROVIDE W/ BLK'G ON 4 SIDES FOR FLANGE ATTACHMENT TO EXIST'G W/ BEAD BOARD CLG @ DEPOT.



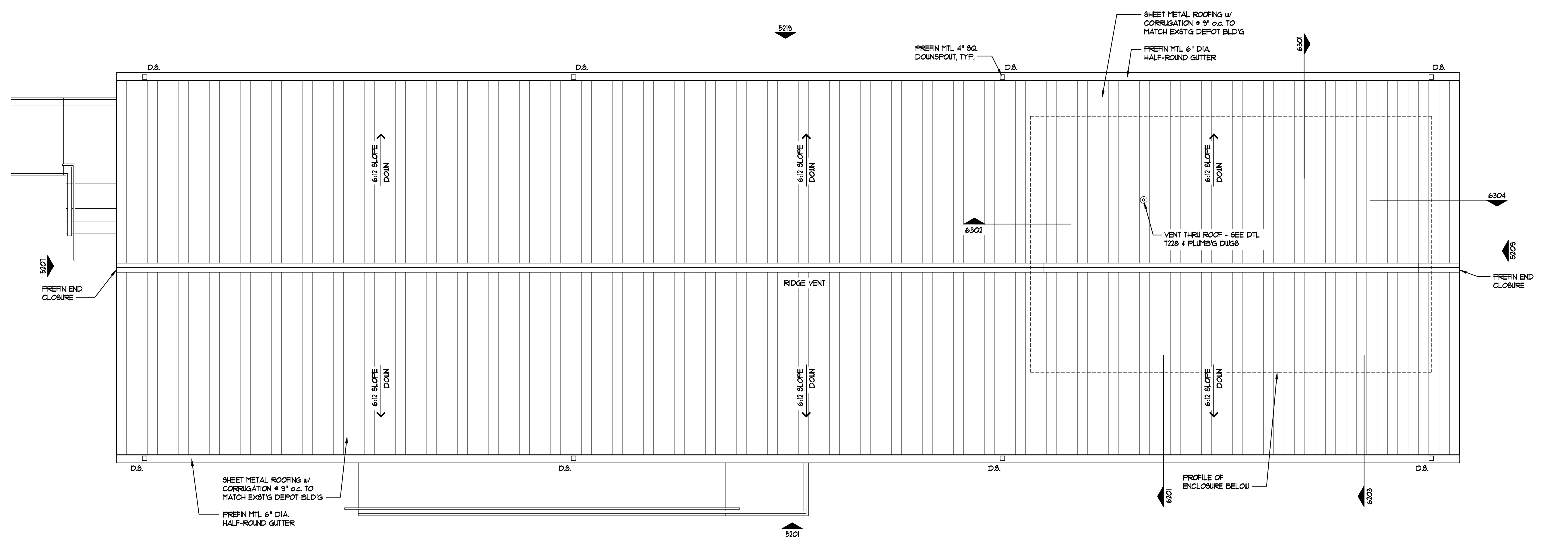
3101 REFLECTED CEILING PLAN @ DEPOT

 1/4" = 1'-0"

BPO123081



NO.	REVISIONS



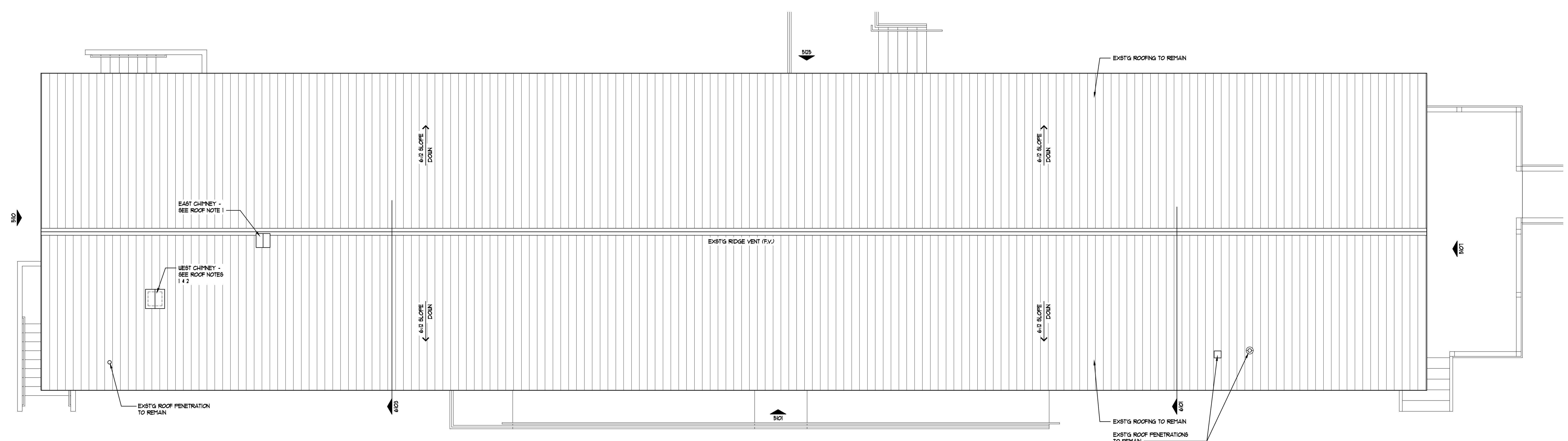
413 ROOF PLAN @ PLATFORM
 1/4" = 1'-0"

BPO123061

ROOF PLAN NOTES

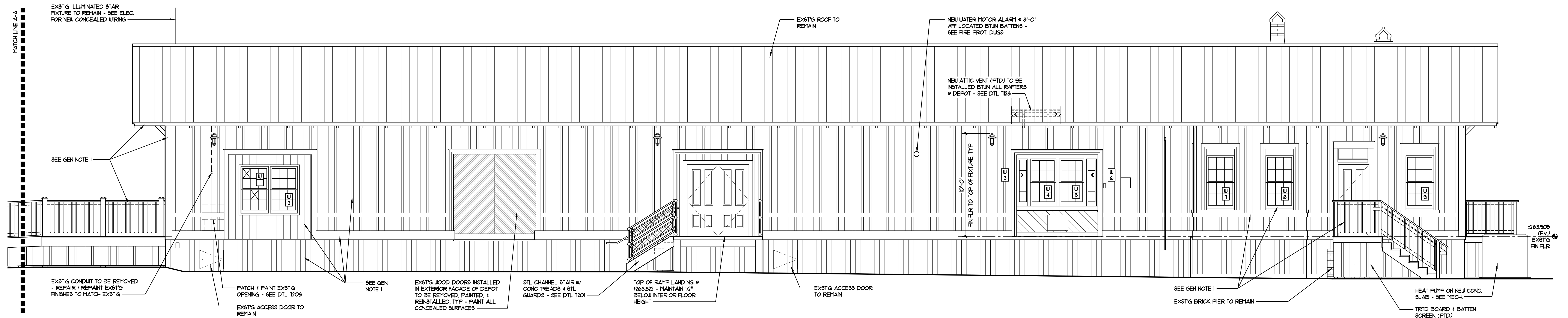
RFN23061

- ALTERNATE 2: AT EAST & WEST CHIMNEYS, DECONSTRUCT, SALVAGE, CLEAN, & REINSTALL CHIMNEY MASONRY w/ NEW MORTAR. ALL WORK TO MATCH EXST'G. SEE DETAILS T209 & T204.
- ALTERNATE 3: PLUMBING VENT TO BE DIRECTED UP WEST CHIMNEY FLUE - SEE PLUMBING DWGS & DTL T205 FOR VENT FLASH'G.



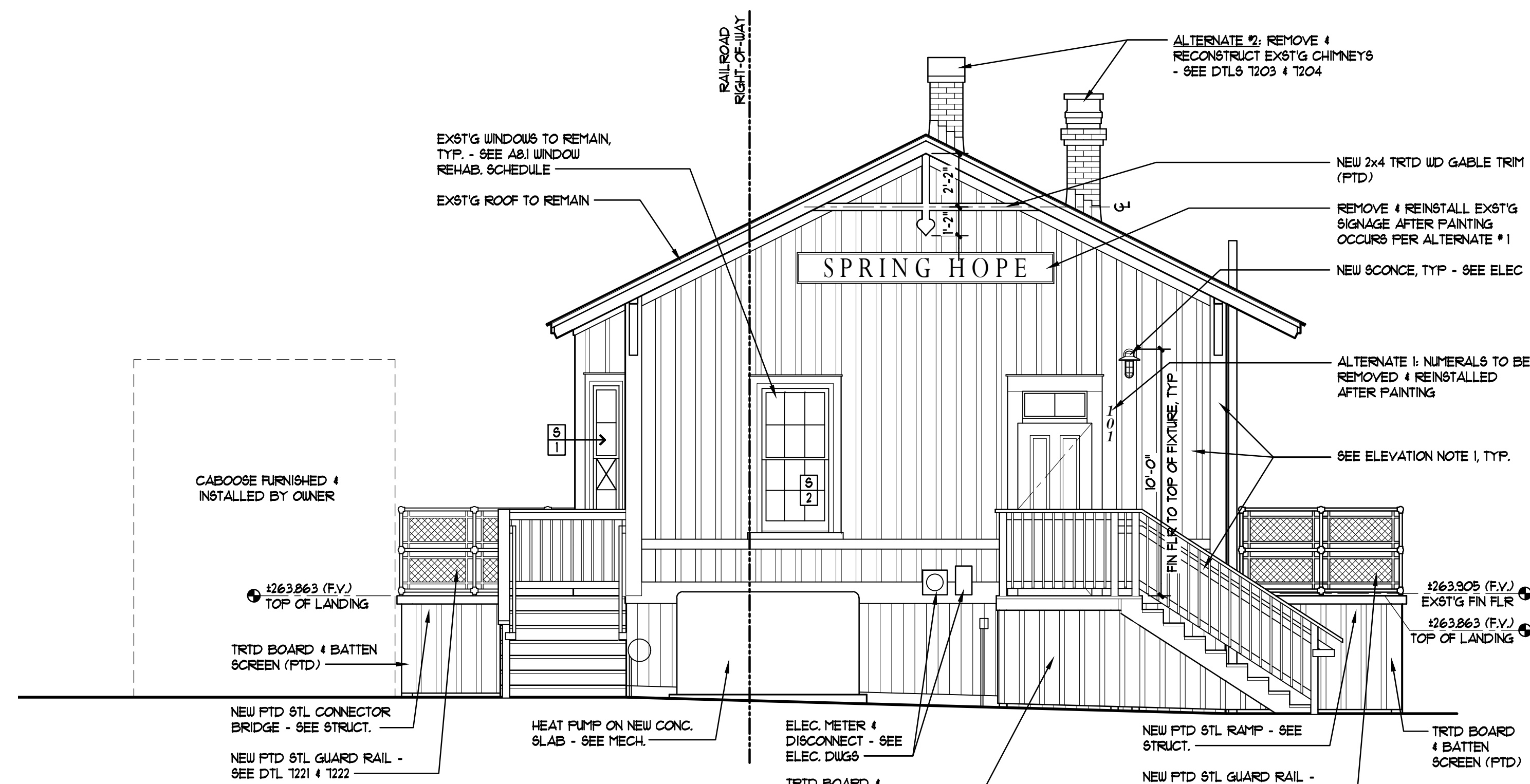
4101 ROOF PLAN @ DEPOT
 1/4" = 1'-0"

BPO123061



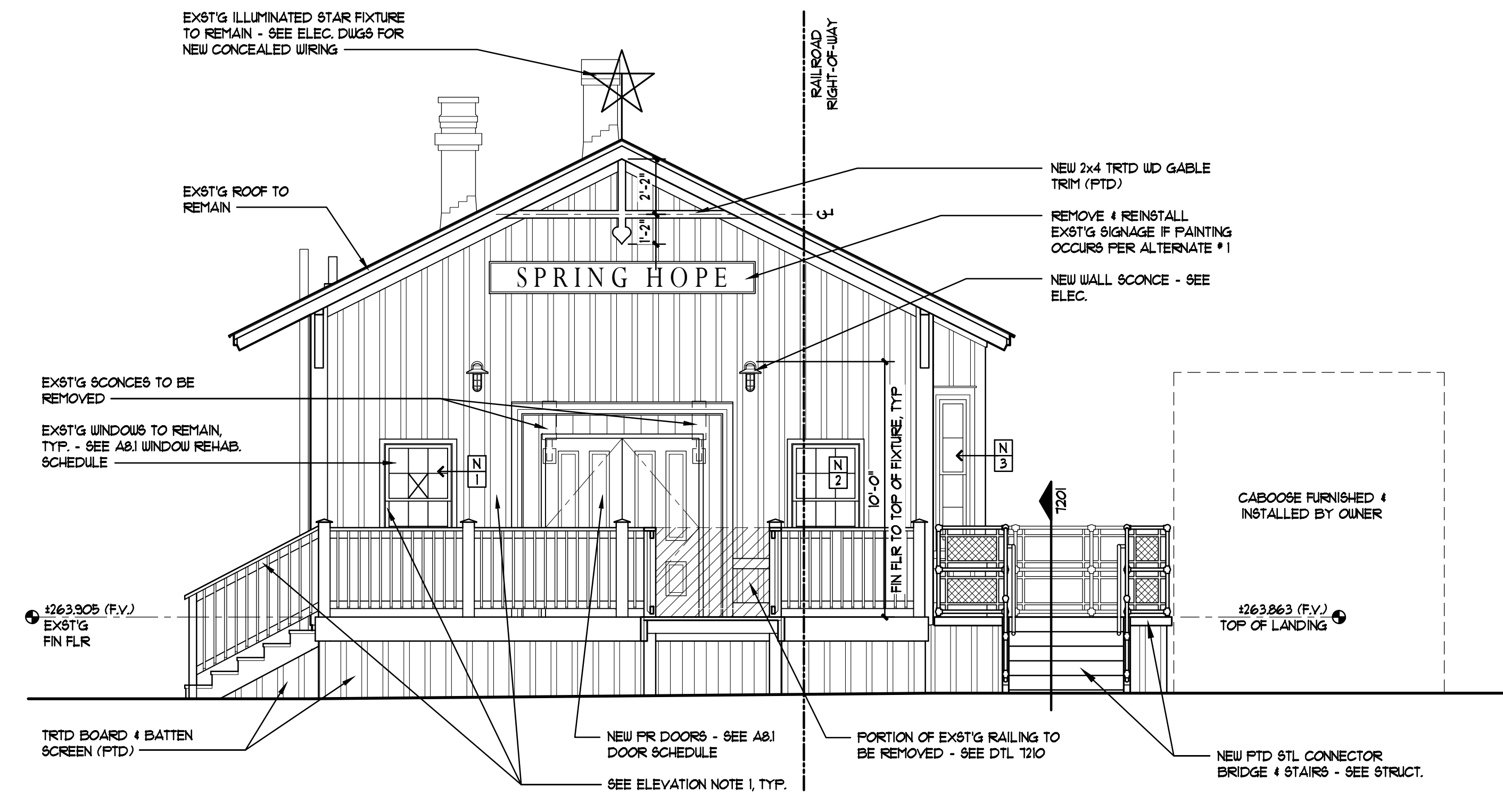
5125 WEST ELEVATION
1/4" = 1'-0"

BEO123081



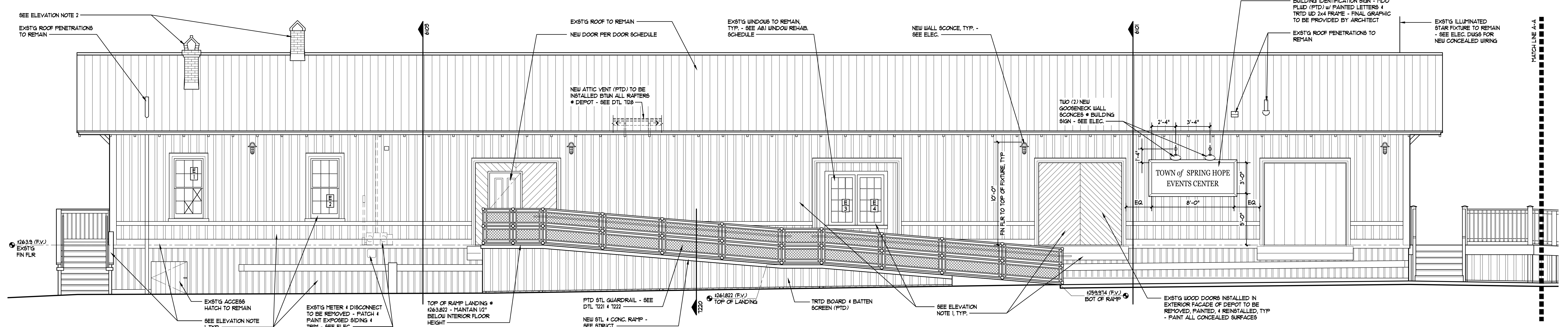
5110 SOUTH ELEVATION
1/4" = 1'-0"

BEO123081



5101 NORTH ELEVATION
1/4" = 1'-0"

BEO123081



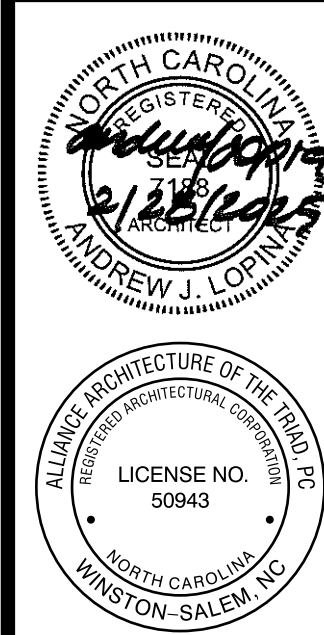
5101 EAST ELEVATION
1/4" = 1'-0"

BEO123081

ELEVATION NOTES

- ALTERNATE 1: STRIP EXISTG PAINT FROM ALL EXTERIOR WD SURFACES • DEPOT • REPAIR w/ 3 COAT APPLICATION.
- ALTERNATE 2: DISASSEMBLE EXISTG CHIMNEYS TO EXISTG STL PLATE SUPPORT • RECONSTRUCT USING EXISTG CLEANED MASONRY. FURNISH • INSTALL NEW MTL FLASHING • COUNTERFLASHING - SEE DETAILS 1203 & 1204.

ELEVATION LEGEND

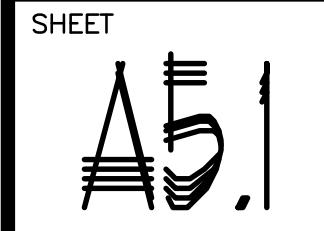


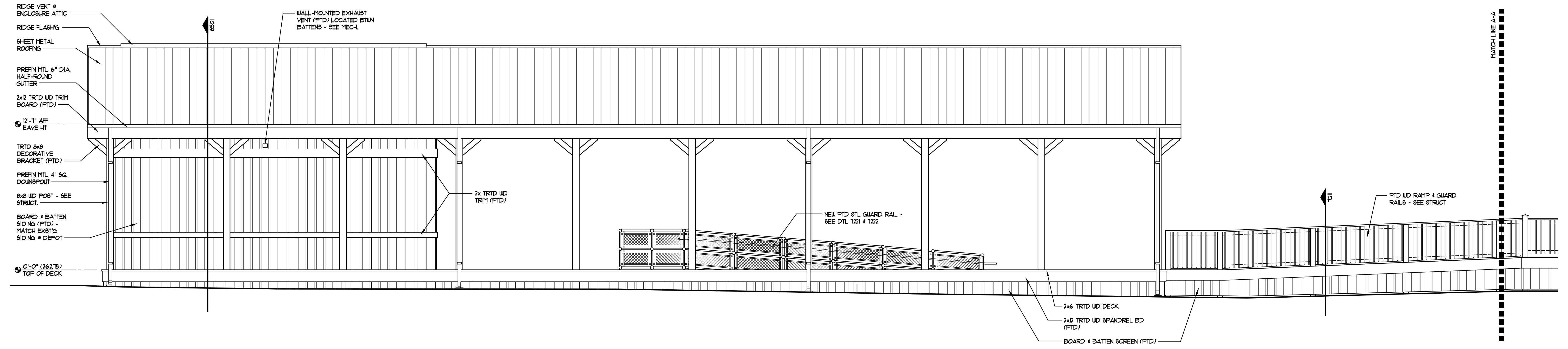
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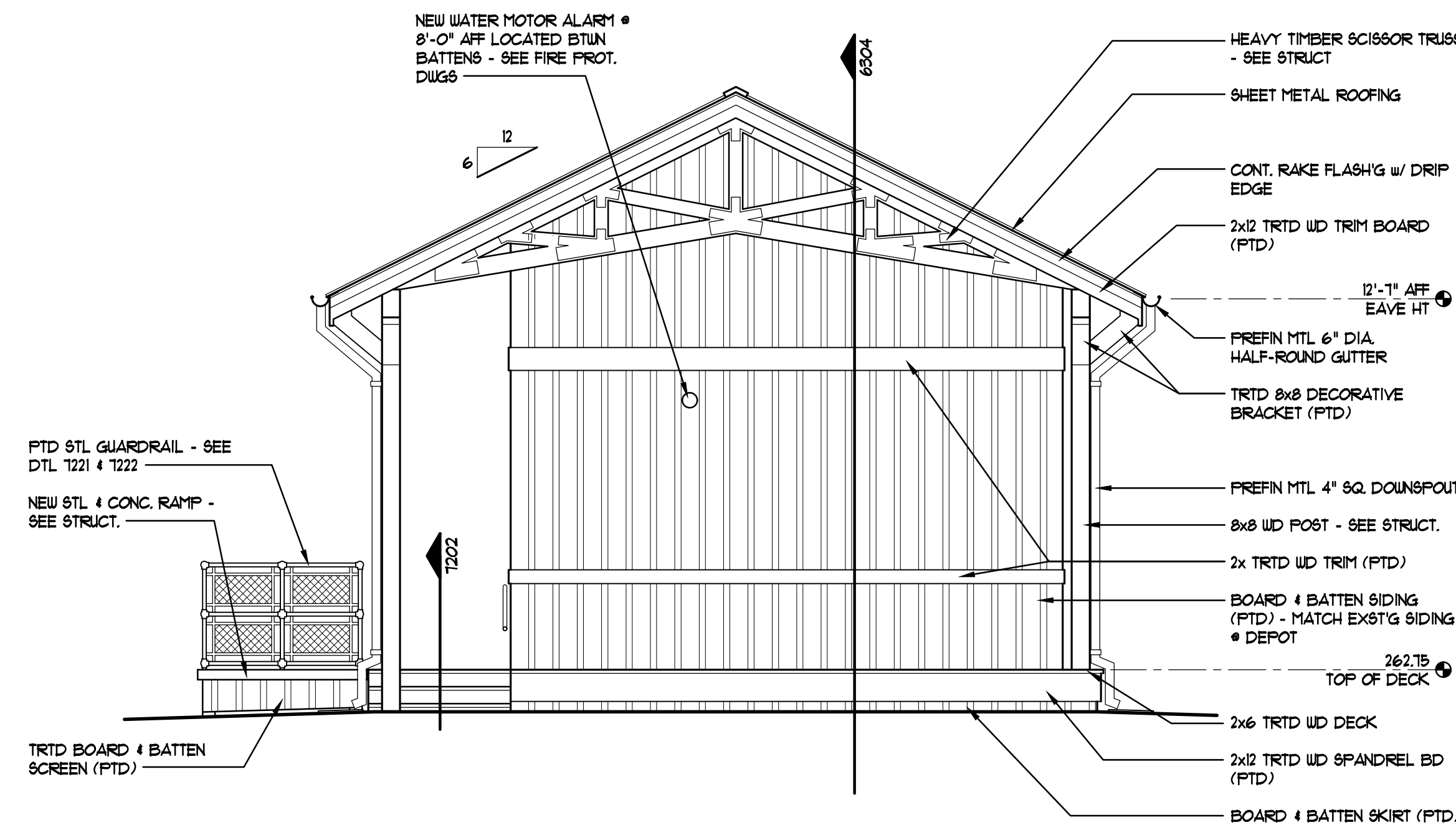
JOB 2308
DATE February 28, 2025
DRAWN T. Doan





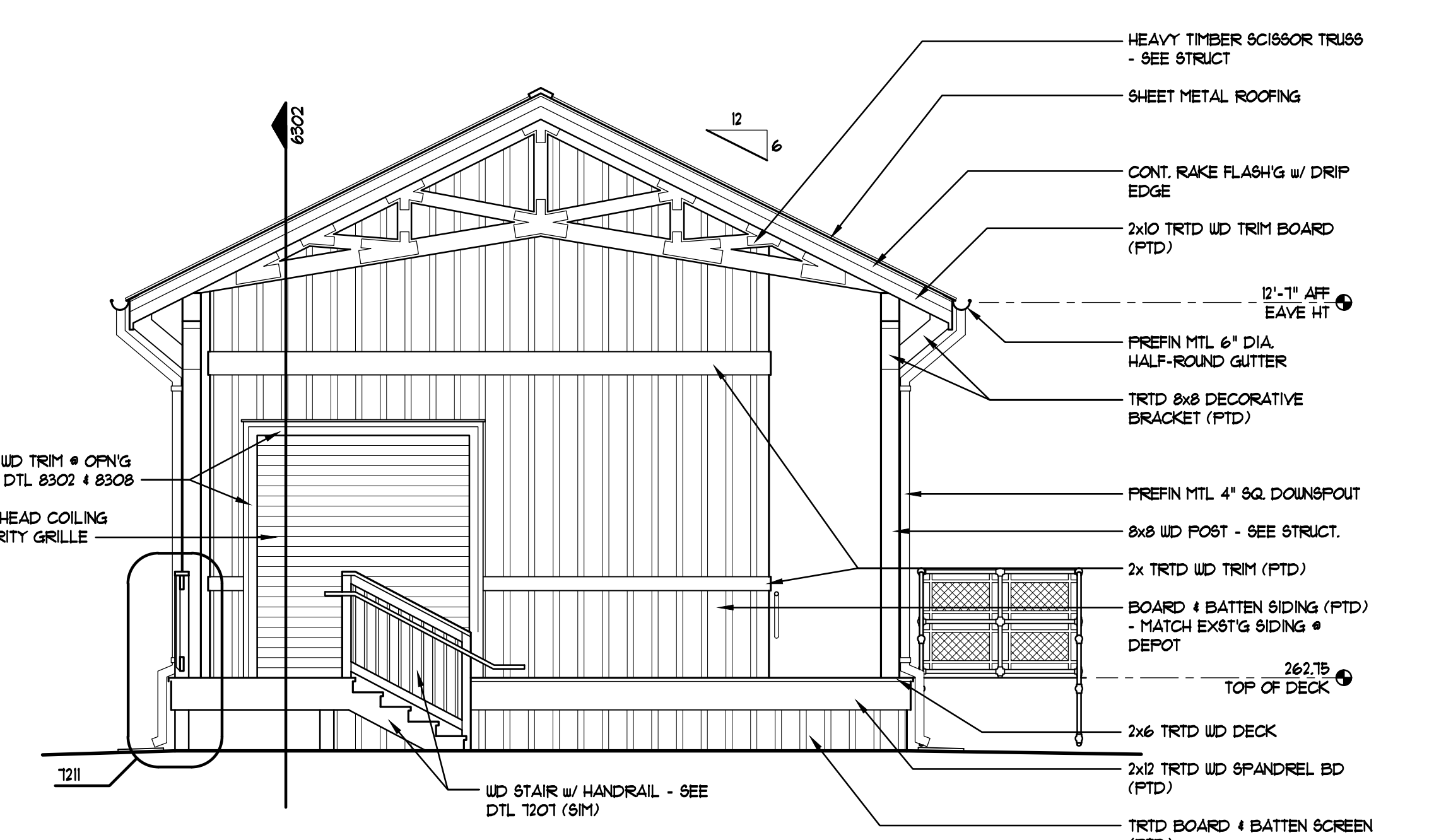
5219 PLATFORM ADDITION - WEST ELEVATION
1/4" = 1'-0"

BEO123081



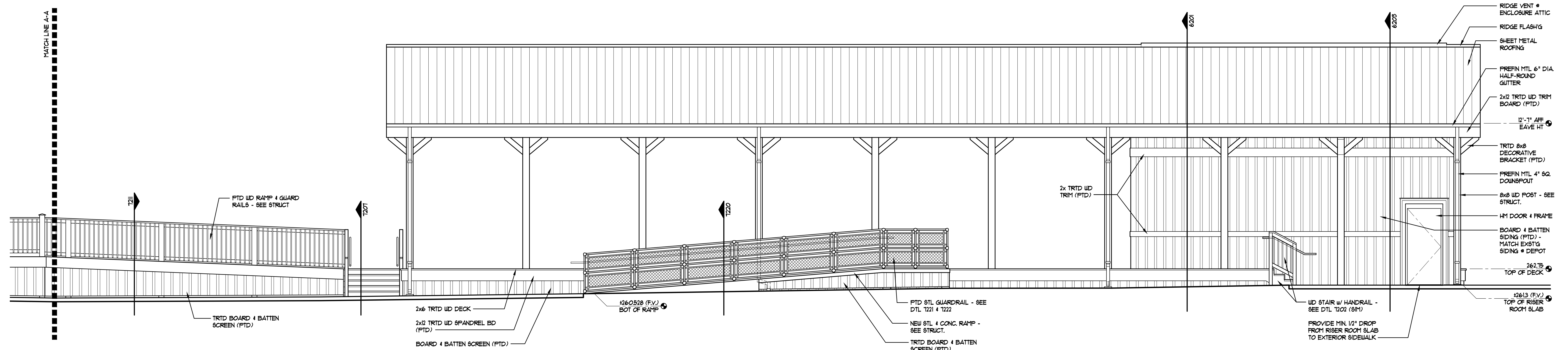
5209 PLATFORM ADDITION - NORTH ELEVATION
1/4" = 1'-0"

BEO123081



5201 PLATFORM ADDITION - SOUTH ELEVATION
1/4" = 1'-0"

BEO123081



5201 PLATFORM ADDITION - EAST ELEVATION
1/4" = 1'-0"

BEO123081

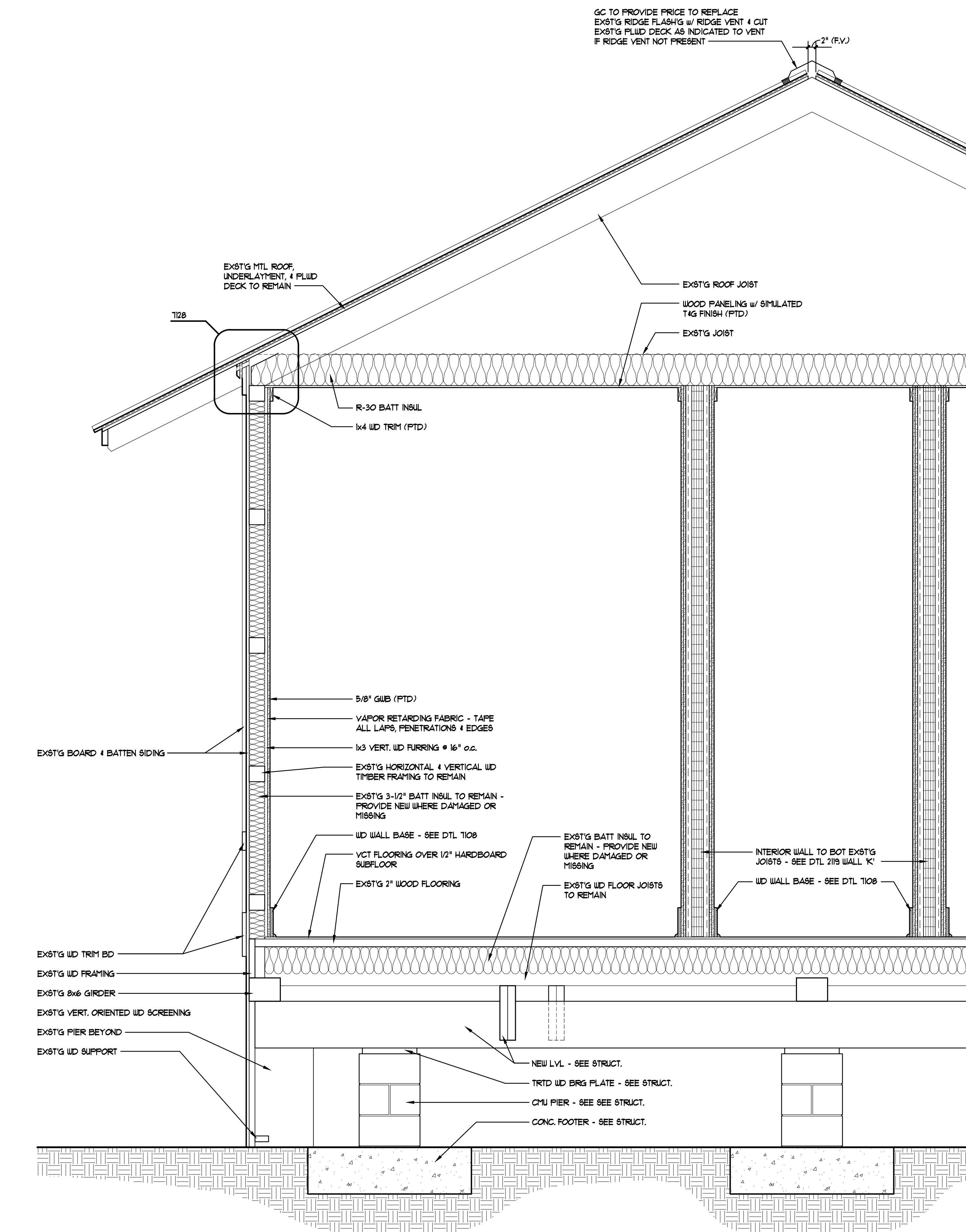


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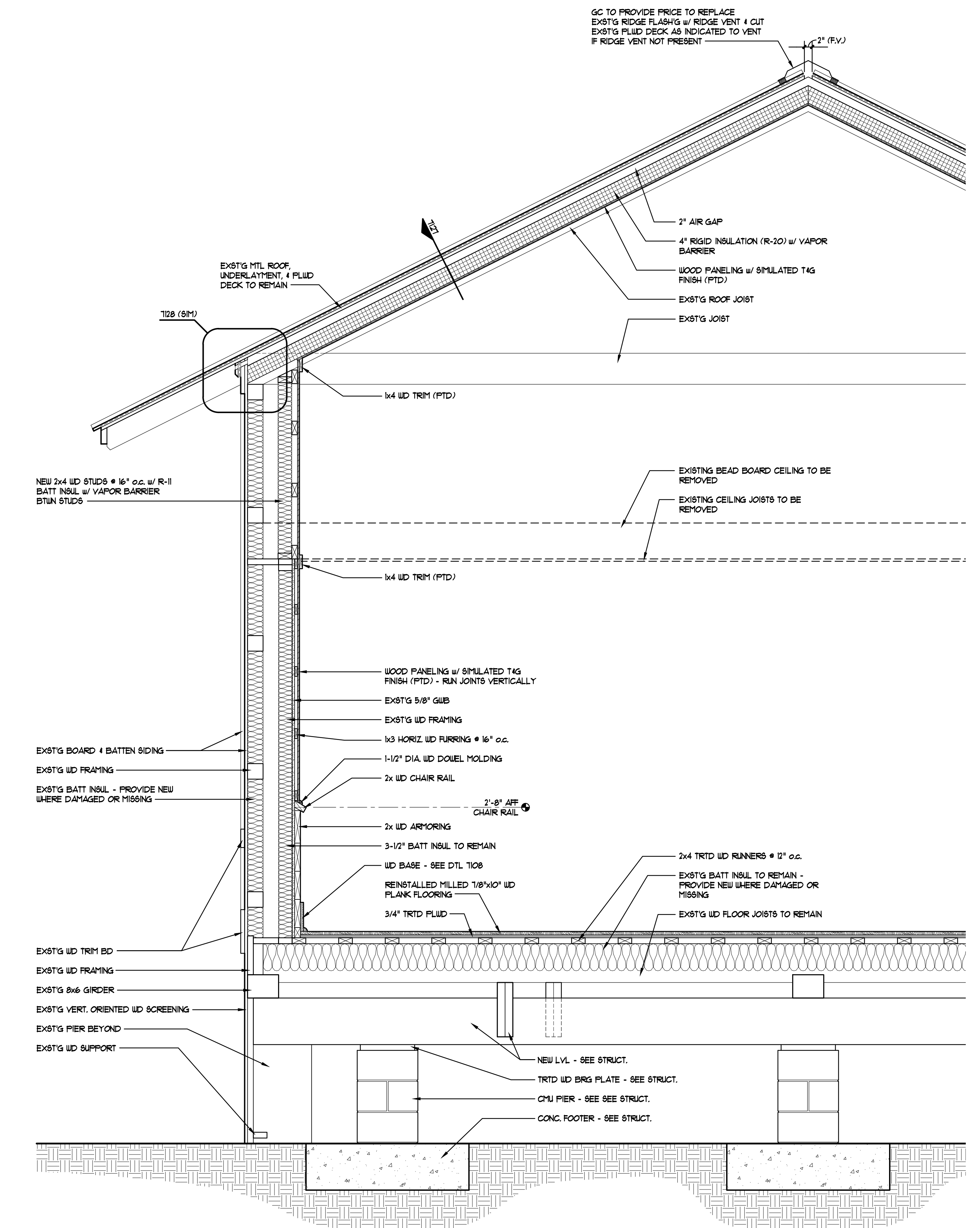
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JOB 23081
DATE February 29, 2025
DRAWN T. Doan
SHEET
A5.2

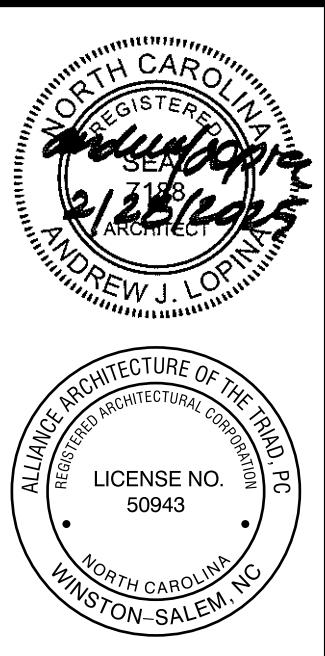


6103 WALL SECTION DETAIL @ DEPOT
3/4" = 1'-0"



6101 BUILDING SECTION DETAIL @ DEPOT
3/4" = 1'-0"

6125 WALL SECTION DETAIL
3/4" = 1'-0"



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Spring Hope, North Carolina 27882

JOB 2306
DATE February 28, 2025
DRAWN T. Doan
SHEET
A6.1

REVISIONS

SPRING HOPE RAILROAD DEPOT

 Building Rehabilitation & Platform Addition

 101 South Ash Street

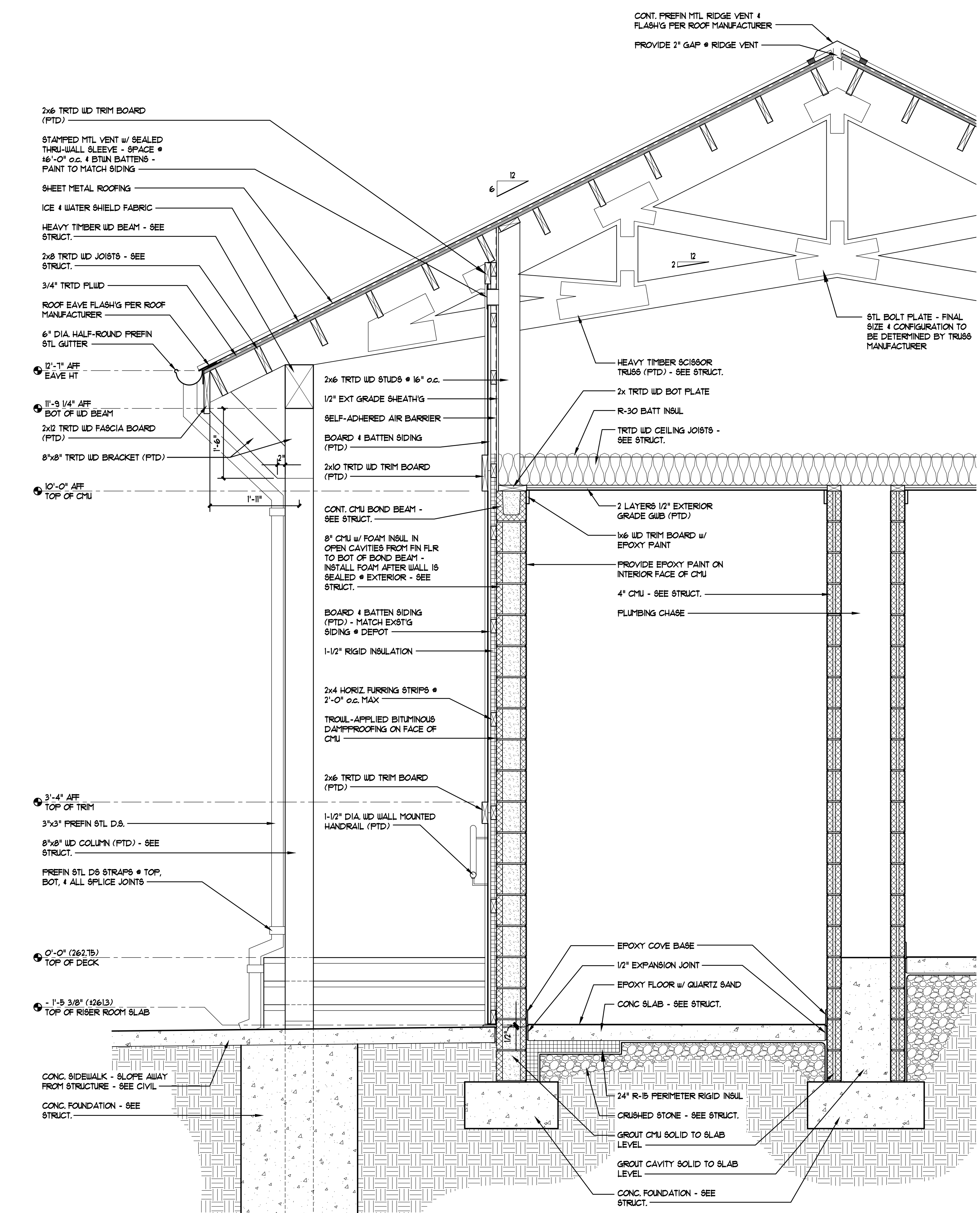
 Spring Hope, North Carolina 27882

JOB 2306

 DATE February 29, 2025

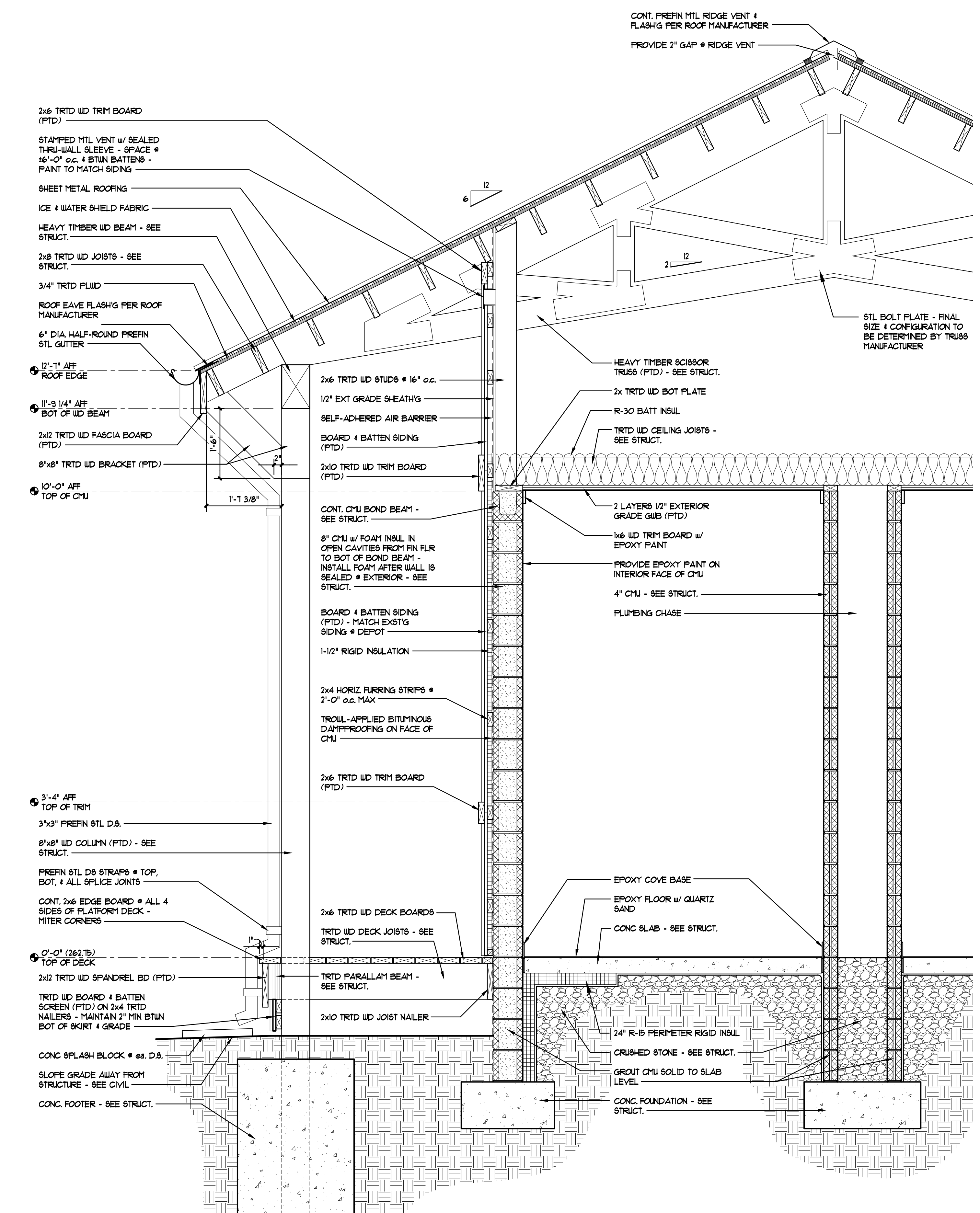
 DRAWN T. Doan

 SHEET



6203 WALL SECTION DETAIL @ PLATFORM

 3/4" = 1'-0"



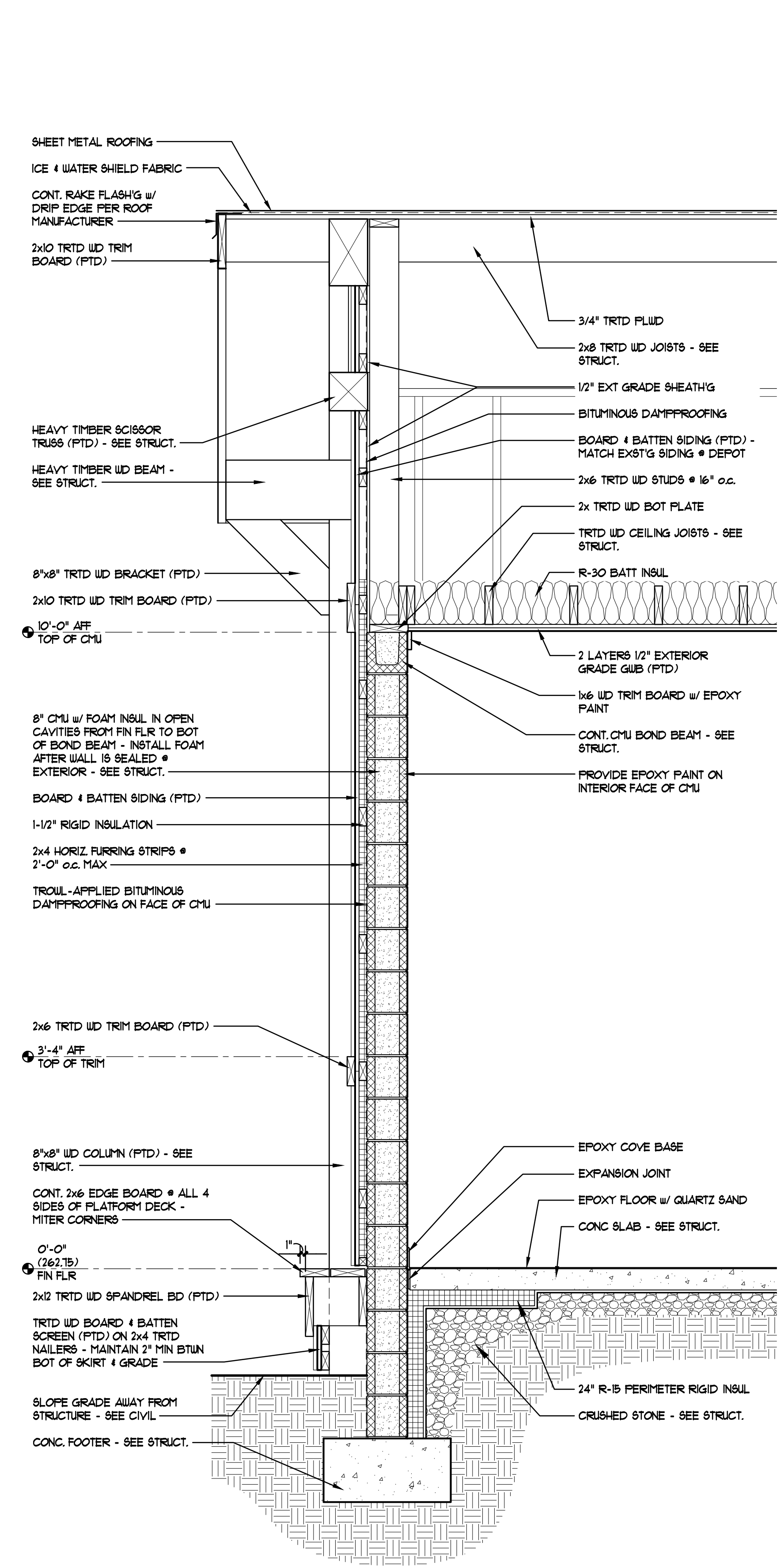
6201 BUILDING SECTION DETAIL @ PLATFORM

 3/4" = 1'-0"

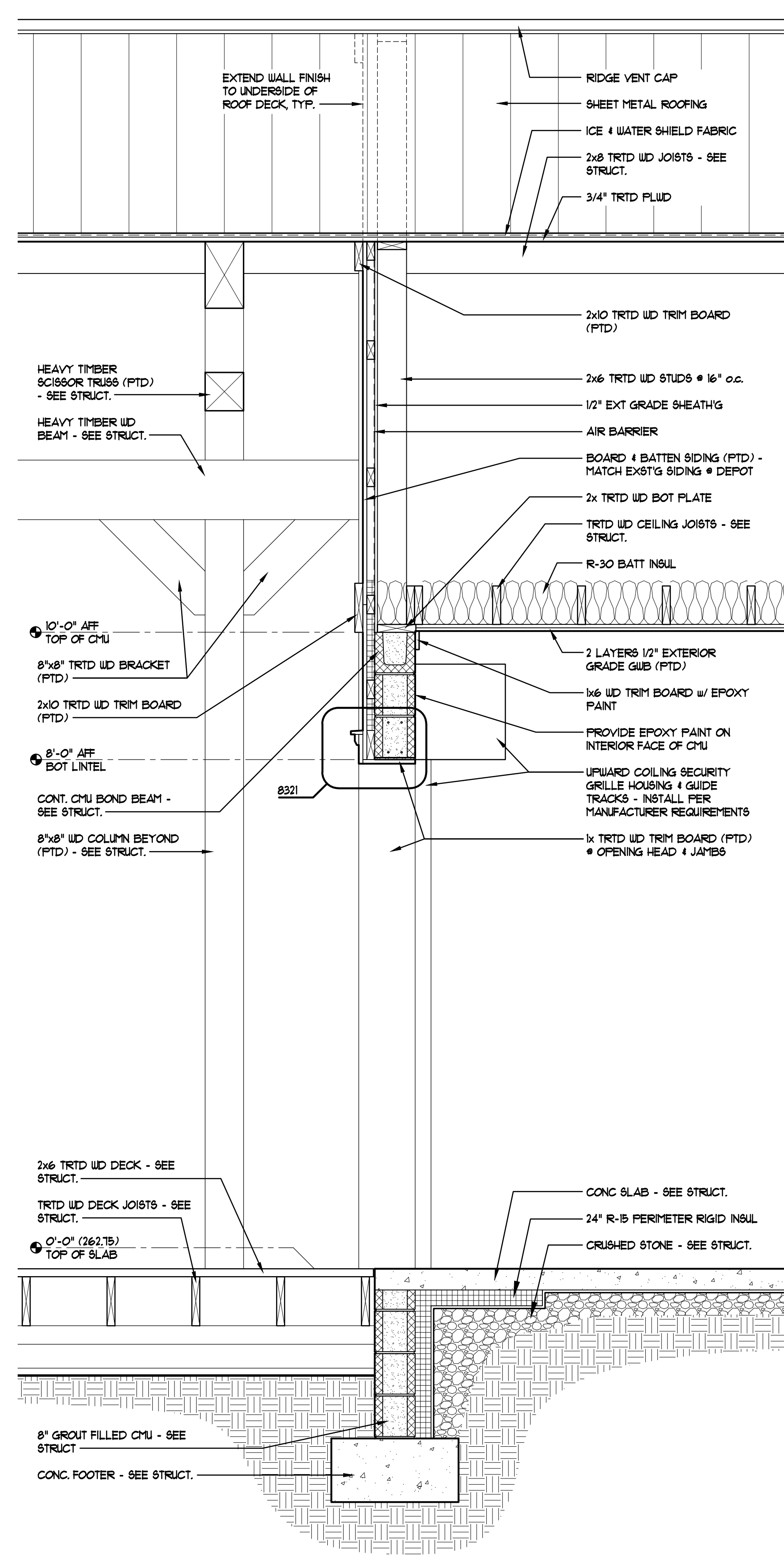
NO.	REVISIONS

SPRING HOPE RAILROAD DEPOT
 Building Rehabilitation & Platform Addition
 101 South Ash Street
 Spring Hope, North Carolina 27982

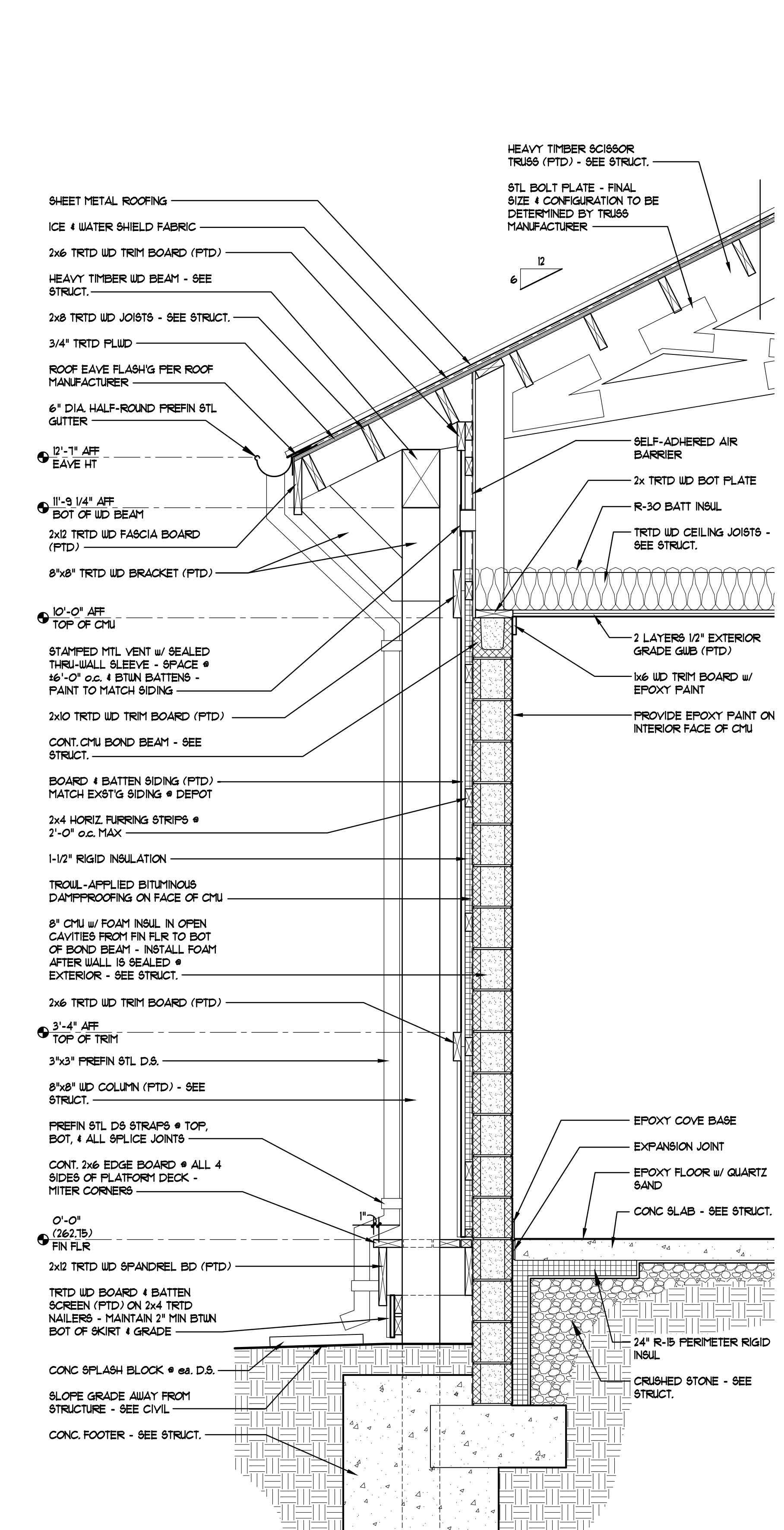
JOB	2506
DATE	February 28, 2025
DRAWN	T. Doan
SHEET	



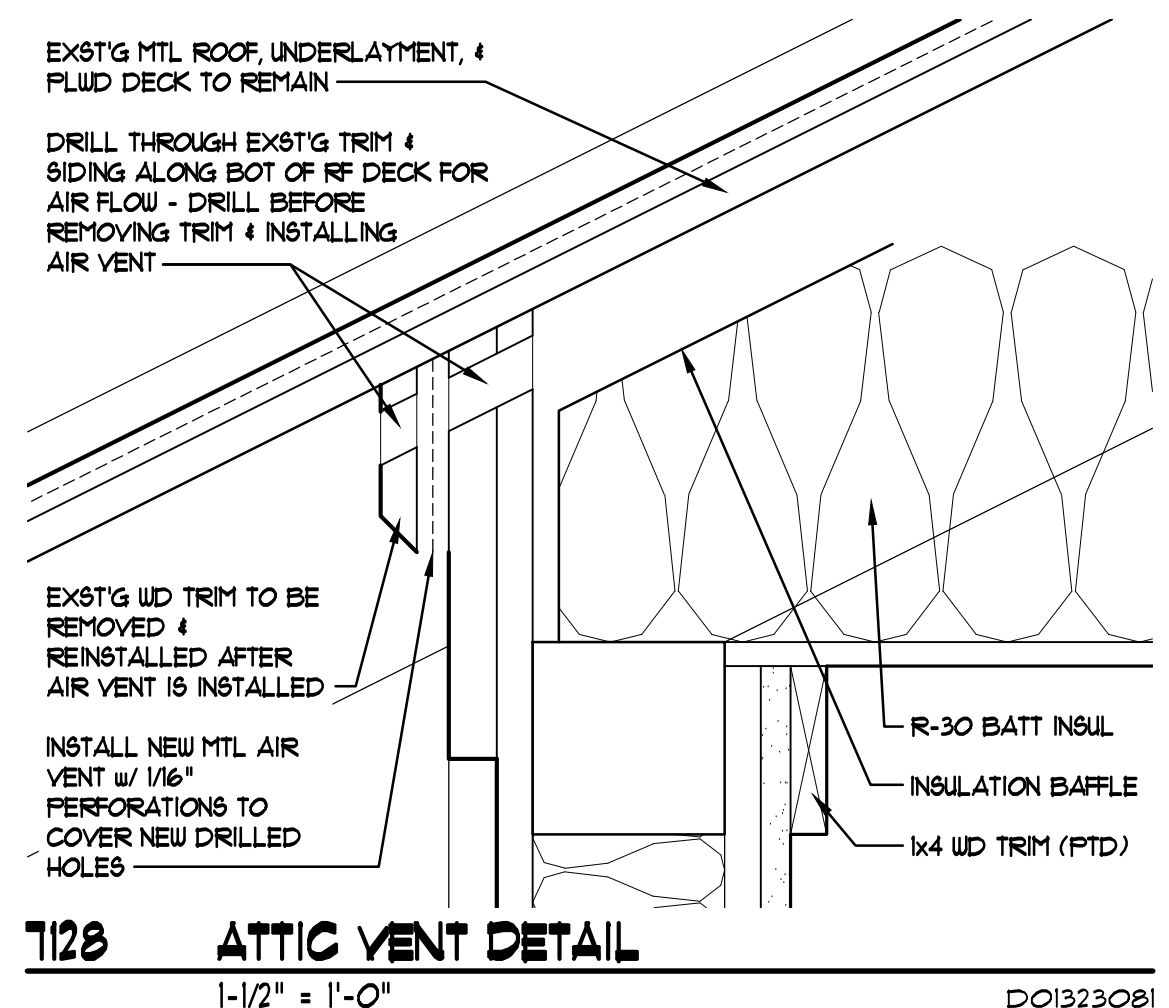
6304 WALL SECTION DETAIL @ PLATFORM
 3/4" = 1'-0"
 W80223081



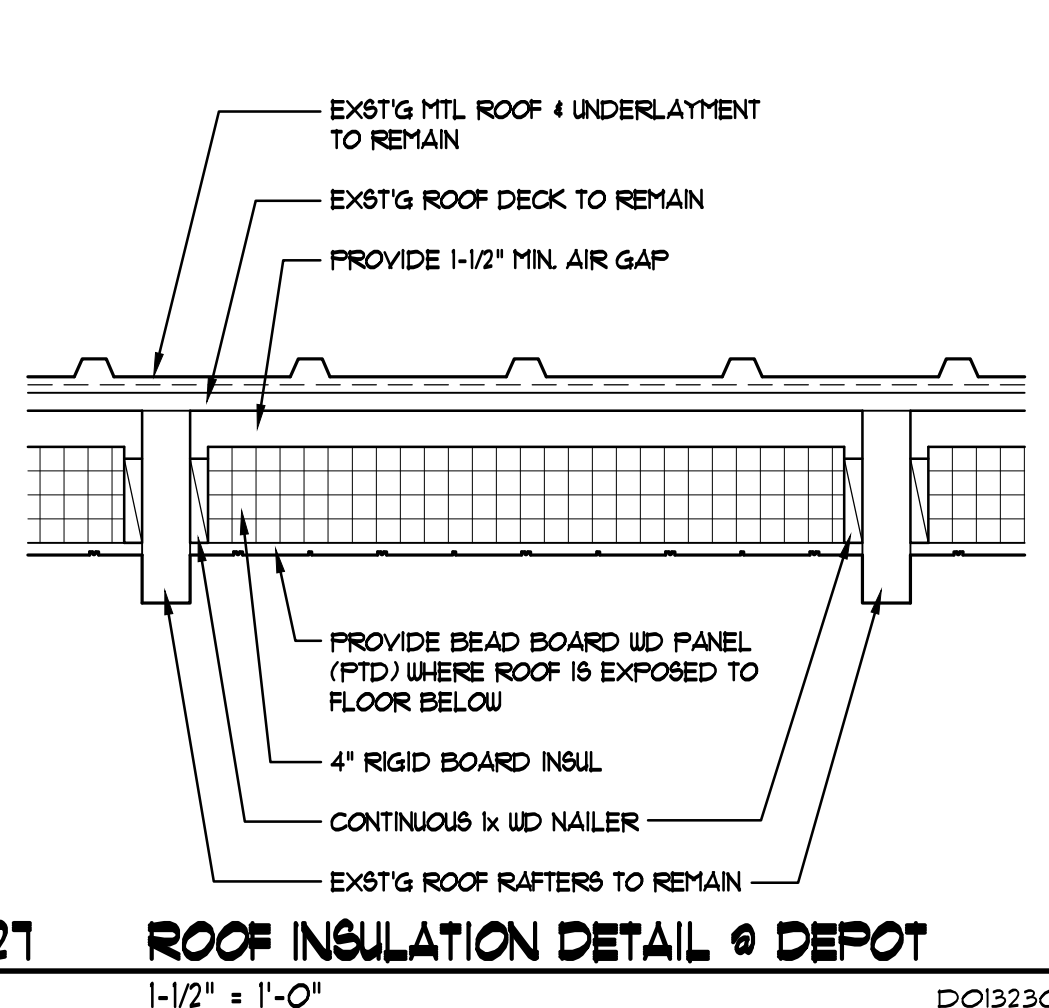
6302 WALL SECTION DETAIL @ PLATFORM
 3/4" = 1'-0"
 W80223081



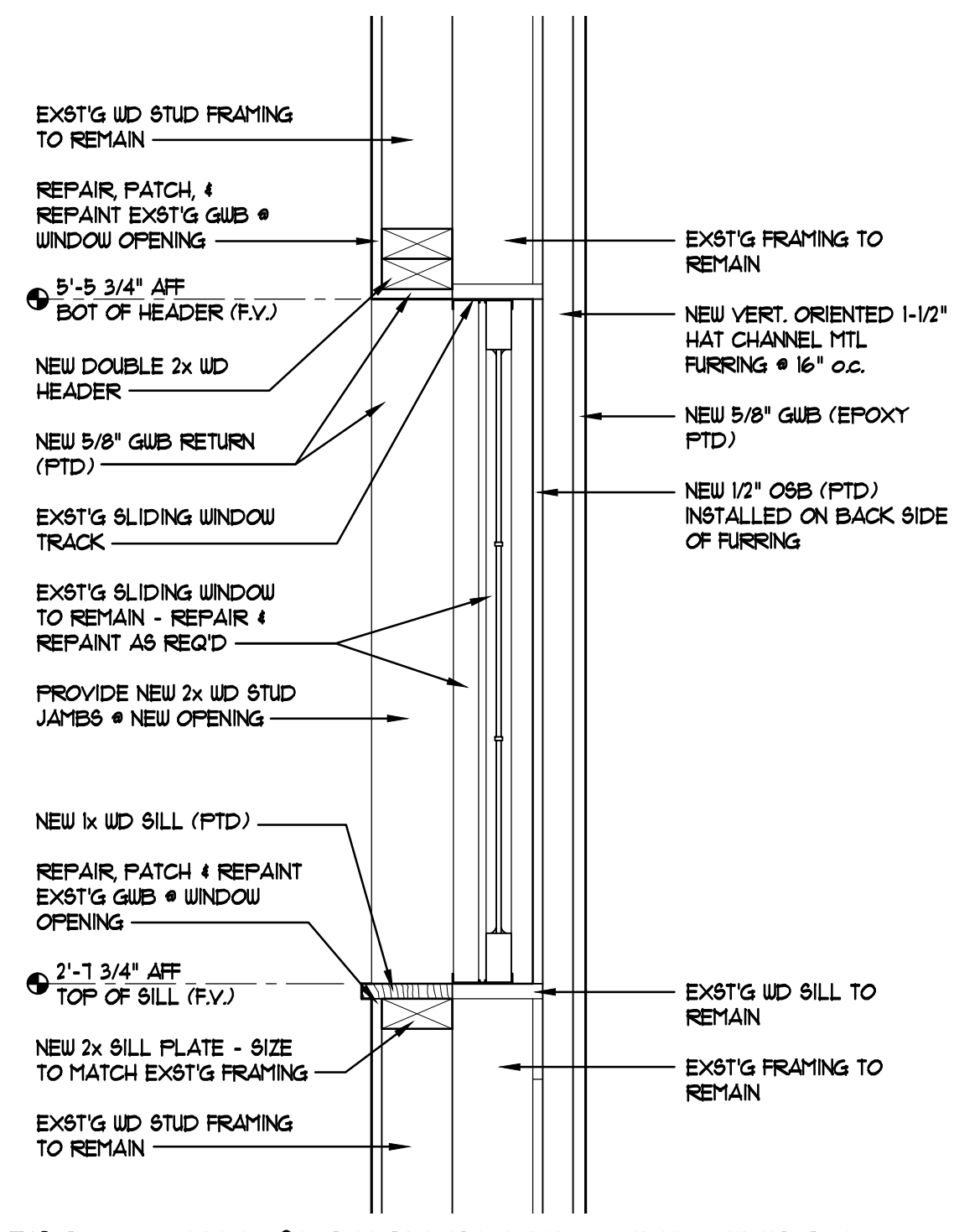
6301 WALL SECTION DETAIL @ PLATFORM
 3/4" = 1'-0"
 W80223081



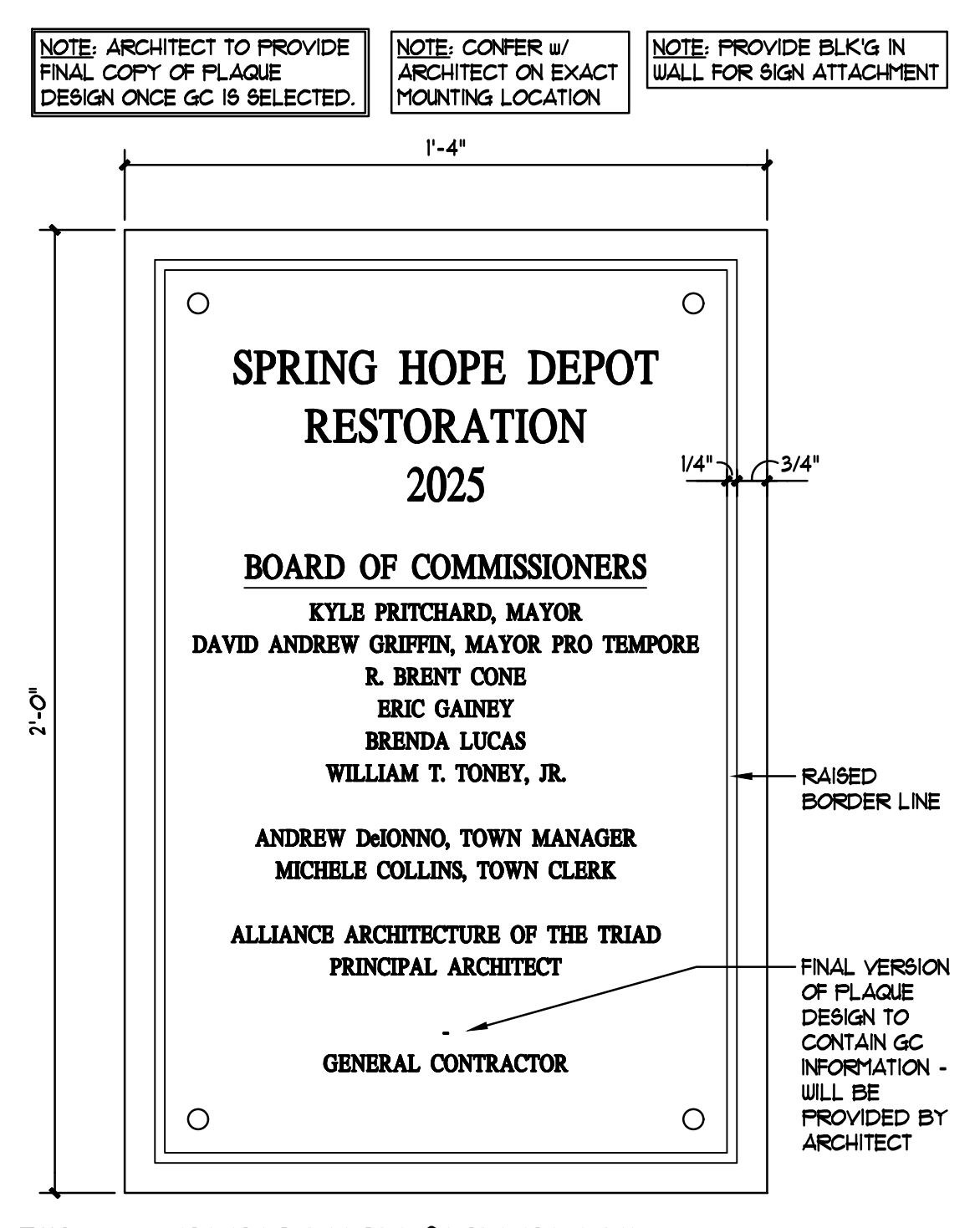
T128 ATTIC VENT DETAIL
 1-1/2" = 1'-0"
 DOI1923081



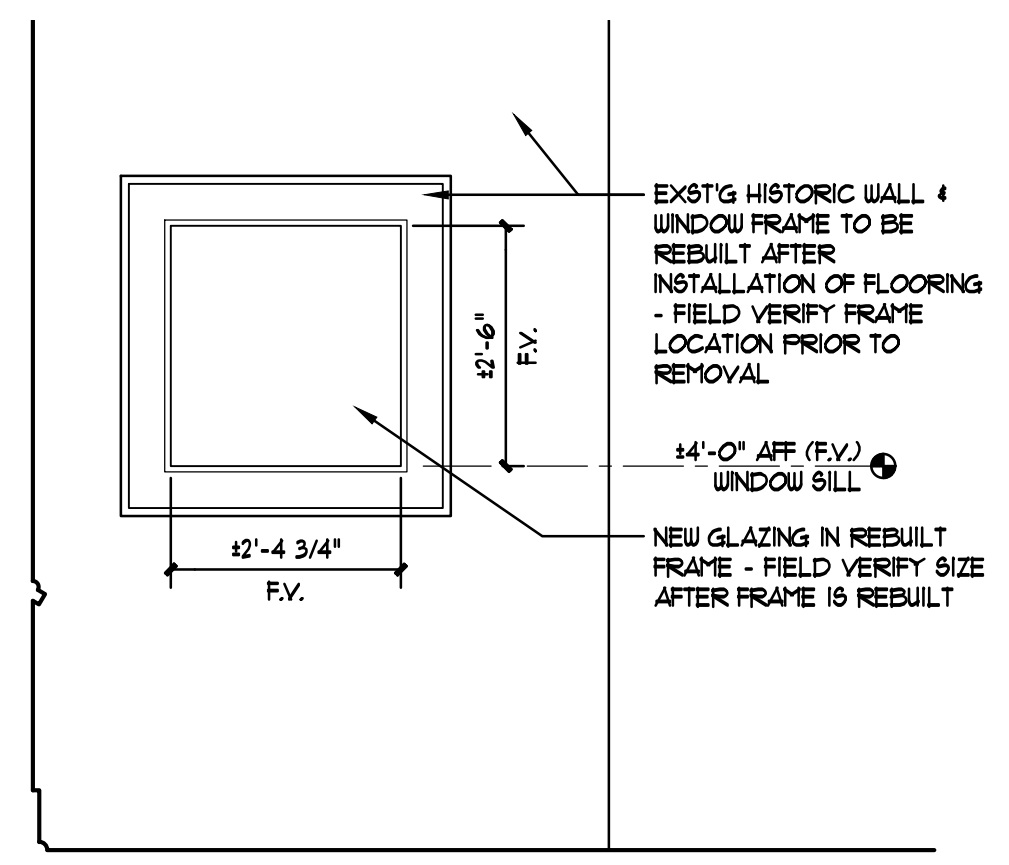
T121 ROOF INSULATION DETAIL @ DEPOT
 1-1/2" = 1'-0"
 DOI1923081



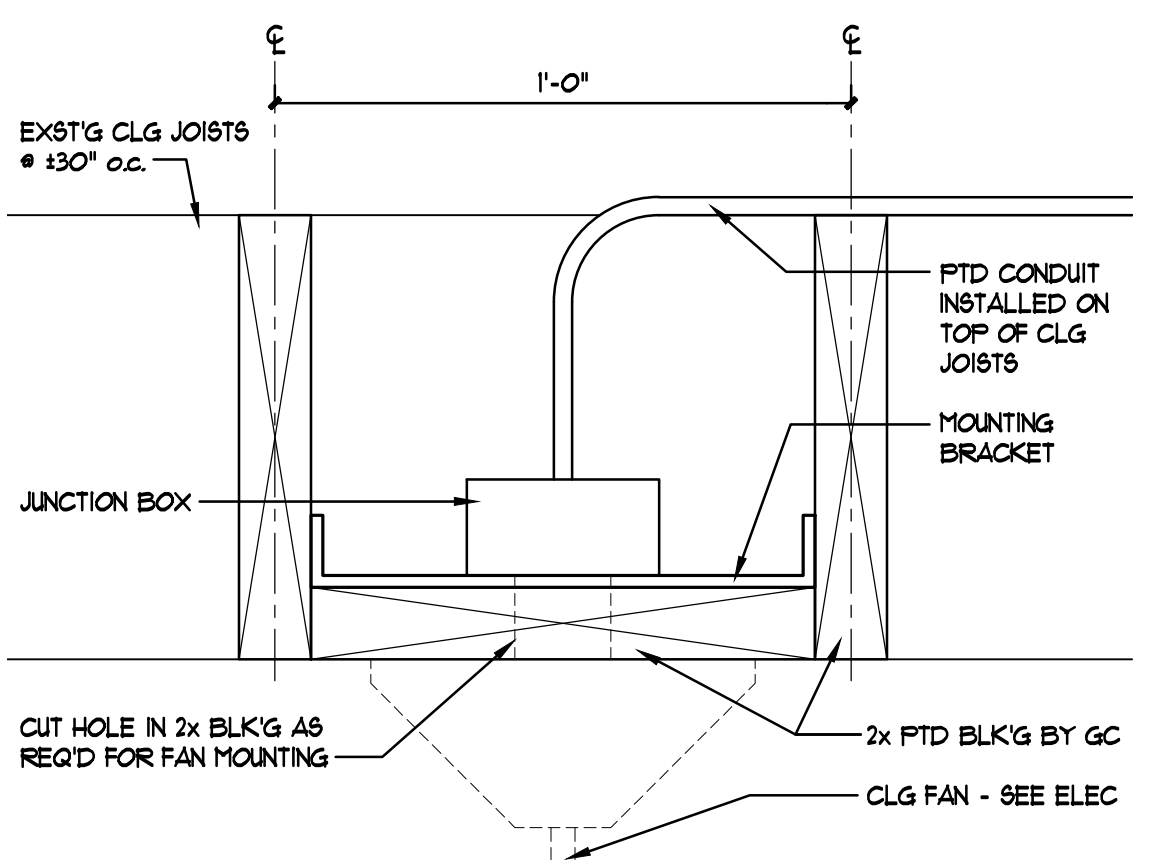
T120 WALL SECTION DETAIL @ INT. WINDOW
 1-1/2" = 1'-0"
 DOI1423081



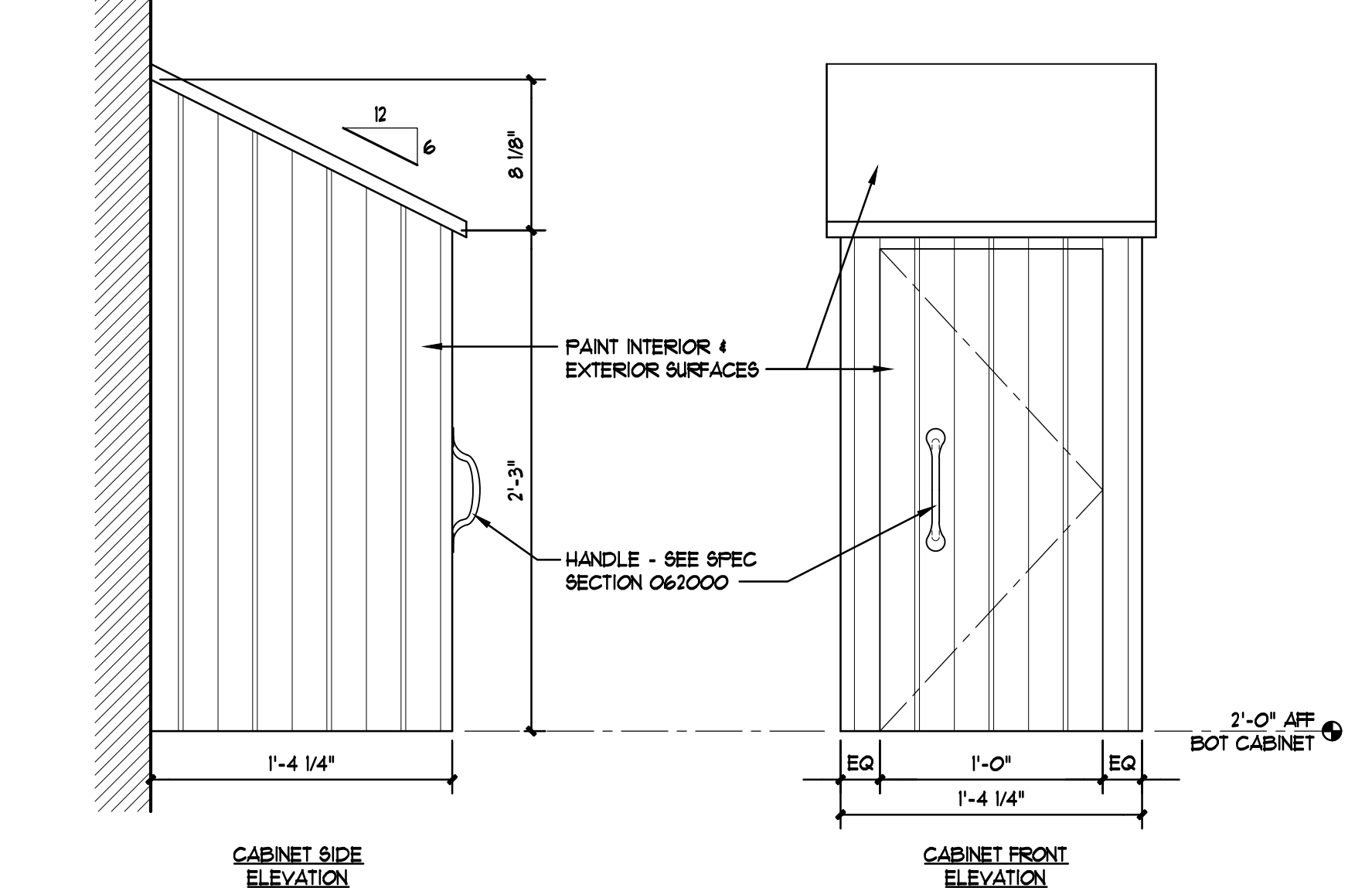
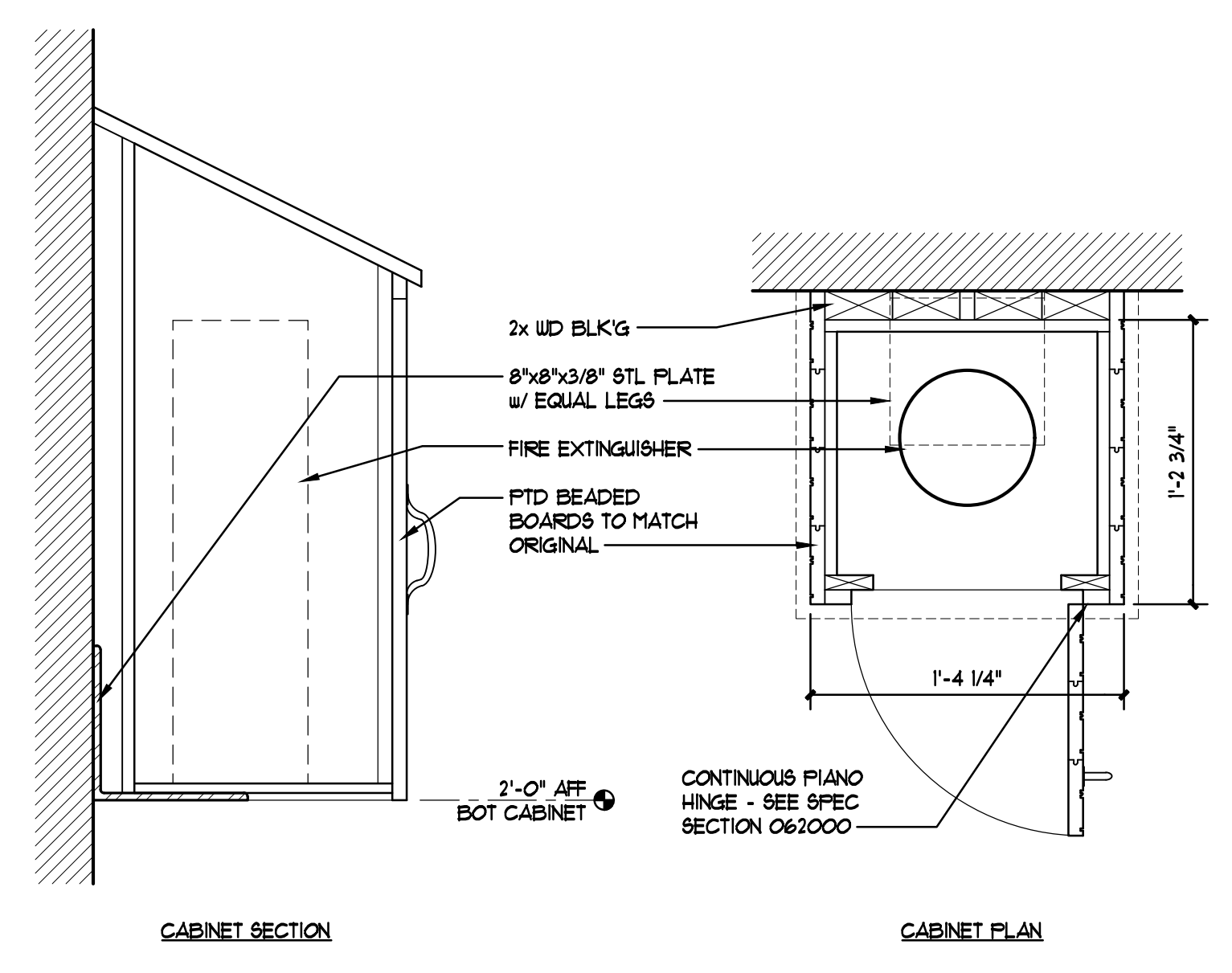
T119 DEDICATION SIGN DETAIL
 3" = 1'-0"
 DOI0823081



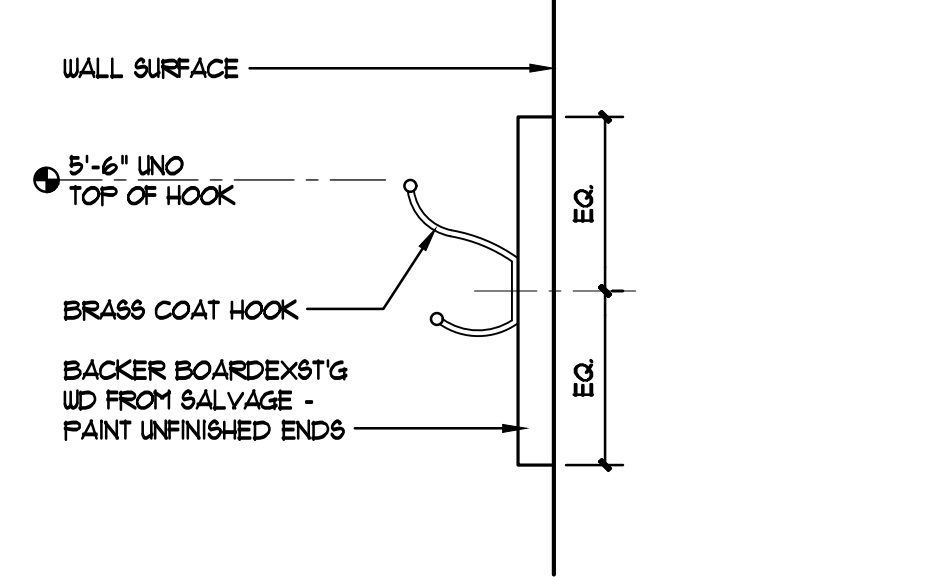
T122 NETWORK ROOM WINDOW ELEVATION
 1/2" = 1'-0"
 DOI1423081



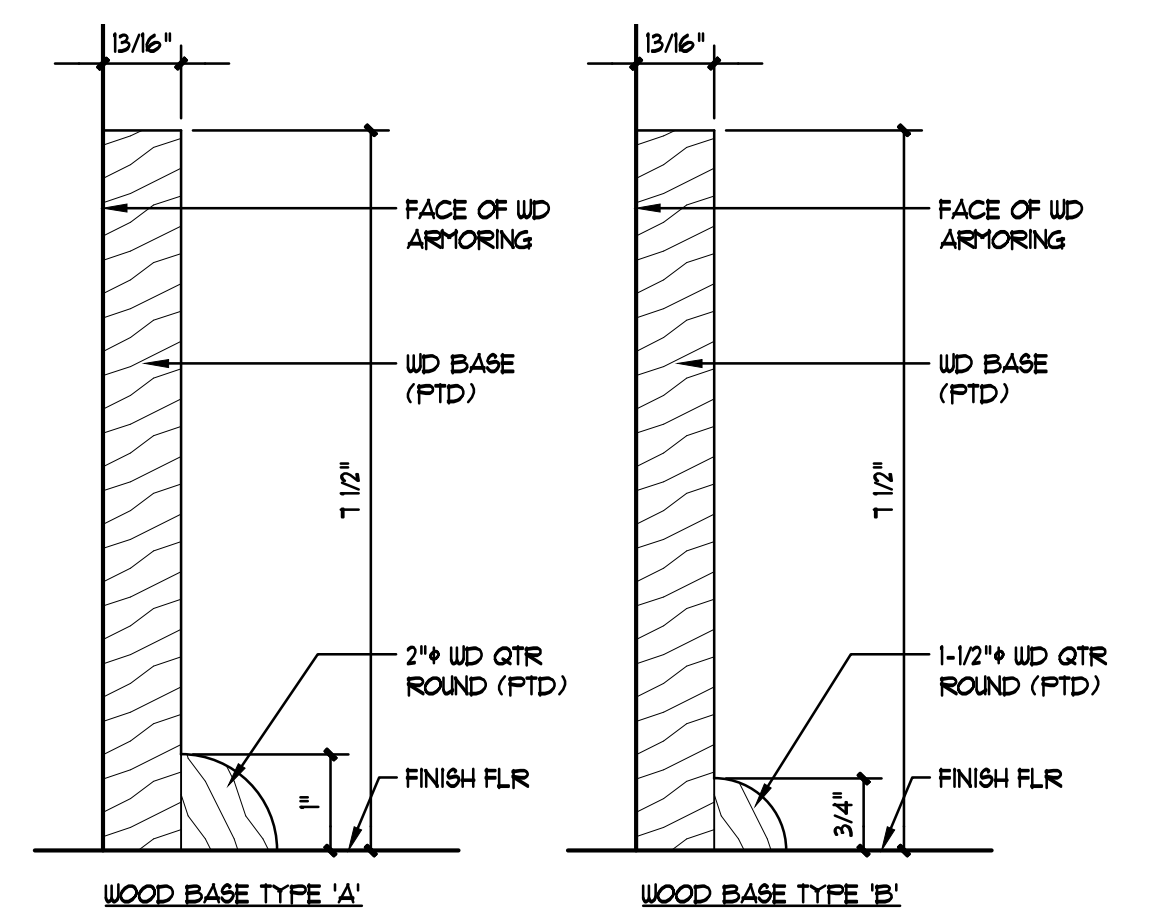
T114 CEILING FAN MOUNTING DETAIL
 3" = 1'-0"
 DOI0223081



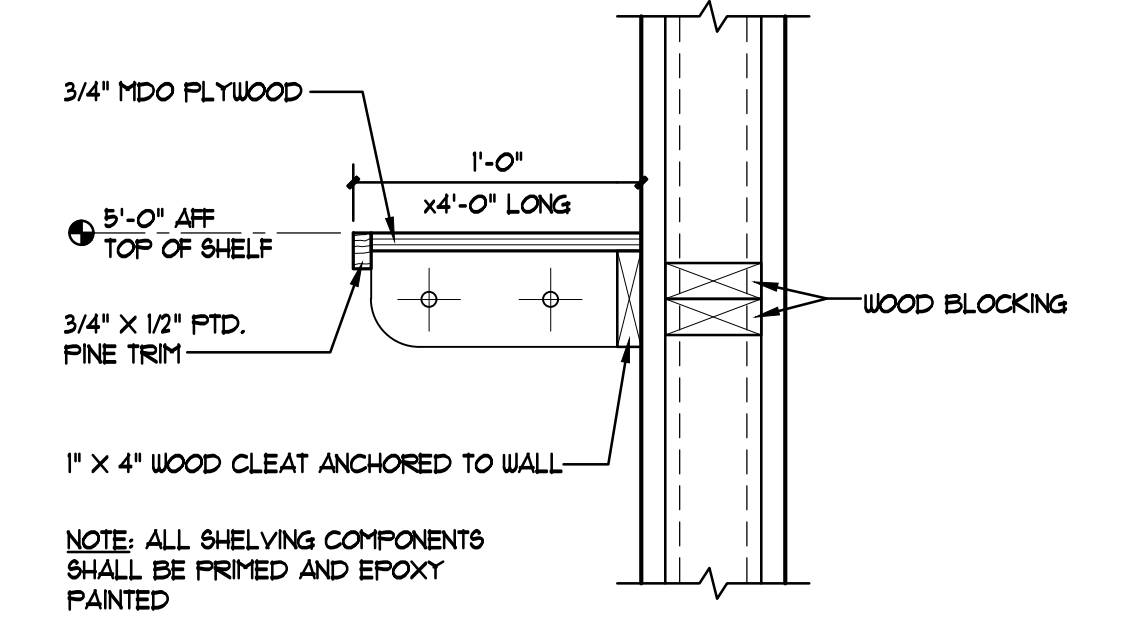
T107 FIRE EXTINGUISHER CABINET DETAILS
 1-1/2" = 1'-0"
 DOI0923081



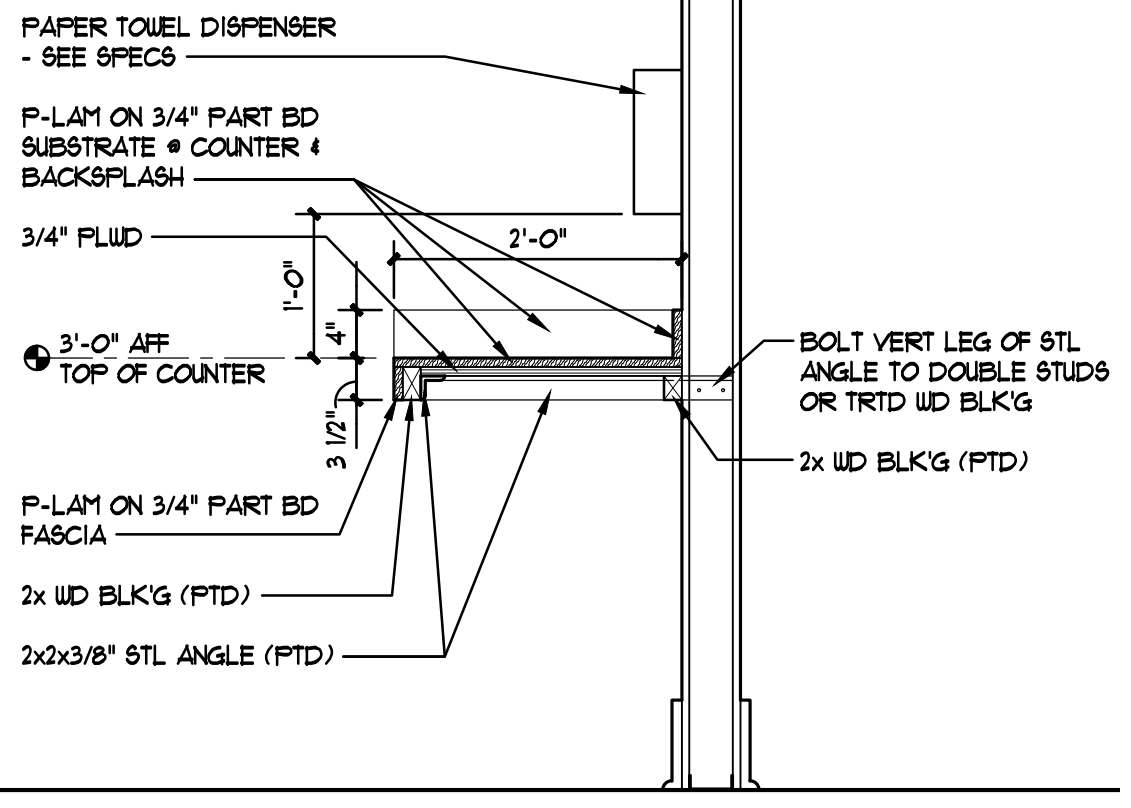
T116 COAT HOOK DETAIL
 1-1/2" = 1'-0"
 DOI123081



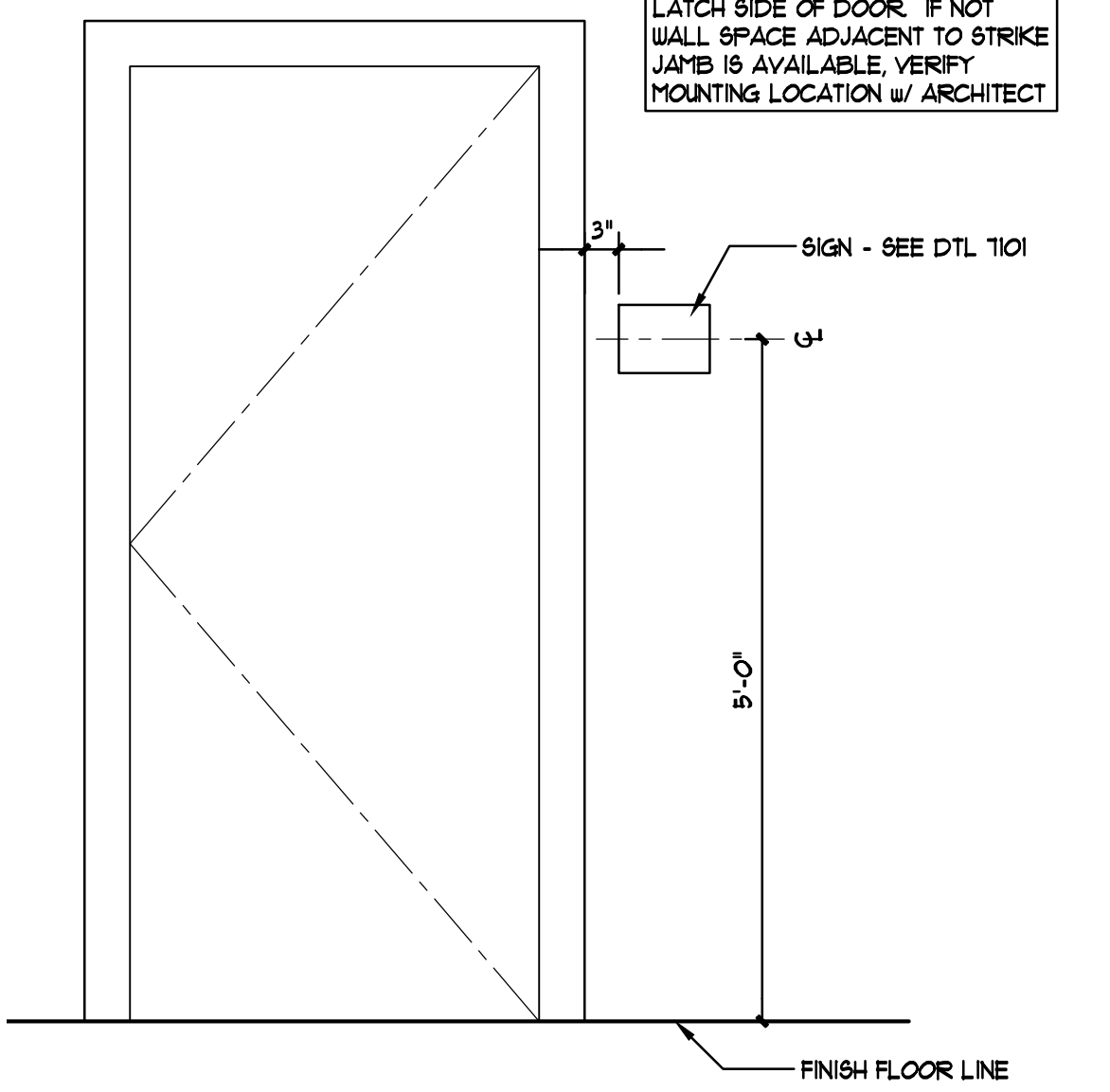
T108 WALL BASE DETAILS
 6" = 1'-0"
 DOI0723081



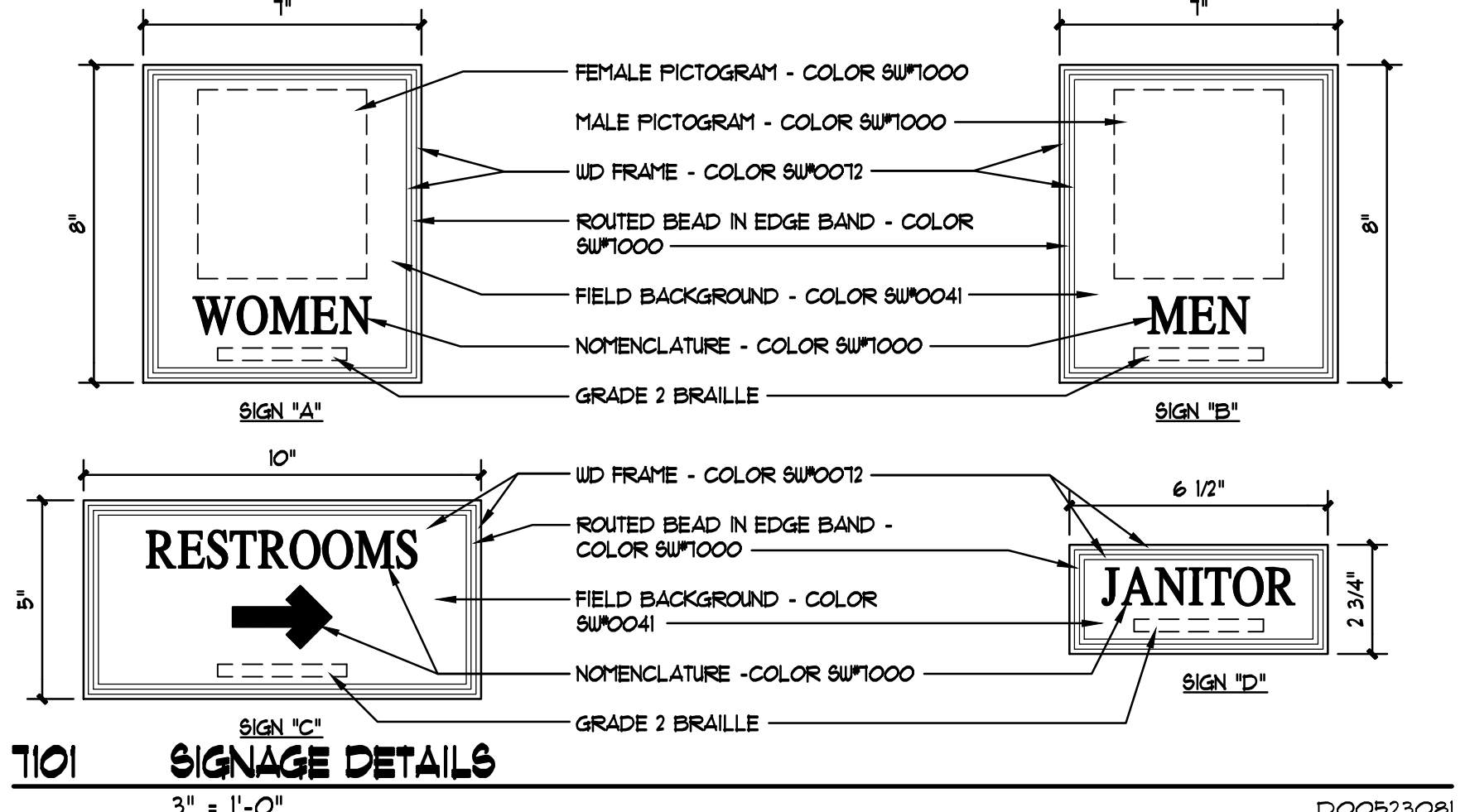
T110 CLOSET SHELF DETAIL
 1-1/2" = 1'-0"
 DOI1023081



T104 COUNTER DETAIL
 3/4" = 1'-0"
 DOI1223081



T102 INTERIOR SIGN MOUNTING DETAIL
 3/4" = 1'-0"
 DOI0423081



T101 SIGNAGE DETAILS
 3" = 1'-0"
 DOI0823081

ALLIANCE ARCHITECTURE OF THE TRIAD
 LICENSE NO. 50563
 2601 Pigeon Court, Suite 130 | Winston-Salem, NC 27106 | Ph: 336.772.4447
 COPYRIGHT 2025
 REVISIONS
 JOB 2208
 DATE February 28, 2025
 DRAWN T. Doan
 SHEET

SPRING HOPE RAILROAD DEPOT REHABILITATION & PLATFORM ADDITION

THIS PROJECT IS FUNDED BY GRANTS PROVIDED THROUGH THE N.C. DEPARTMENT OF COMMERCE AND MATCHING FUNDS PROVIDED BY THE TOWN OF SPRING HOPE

ALLIANCE ARCHITECTURE OF THE TRIAD ARCHITECT

 DAVID E. GALL HISTORIC PRESERVATION CONSULTANT

 ALLIED DESIGN, INC. CIVIL ENGINEER

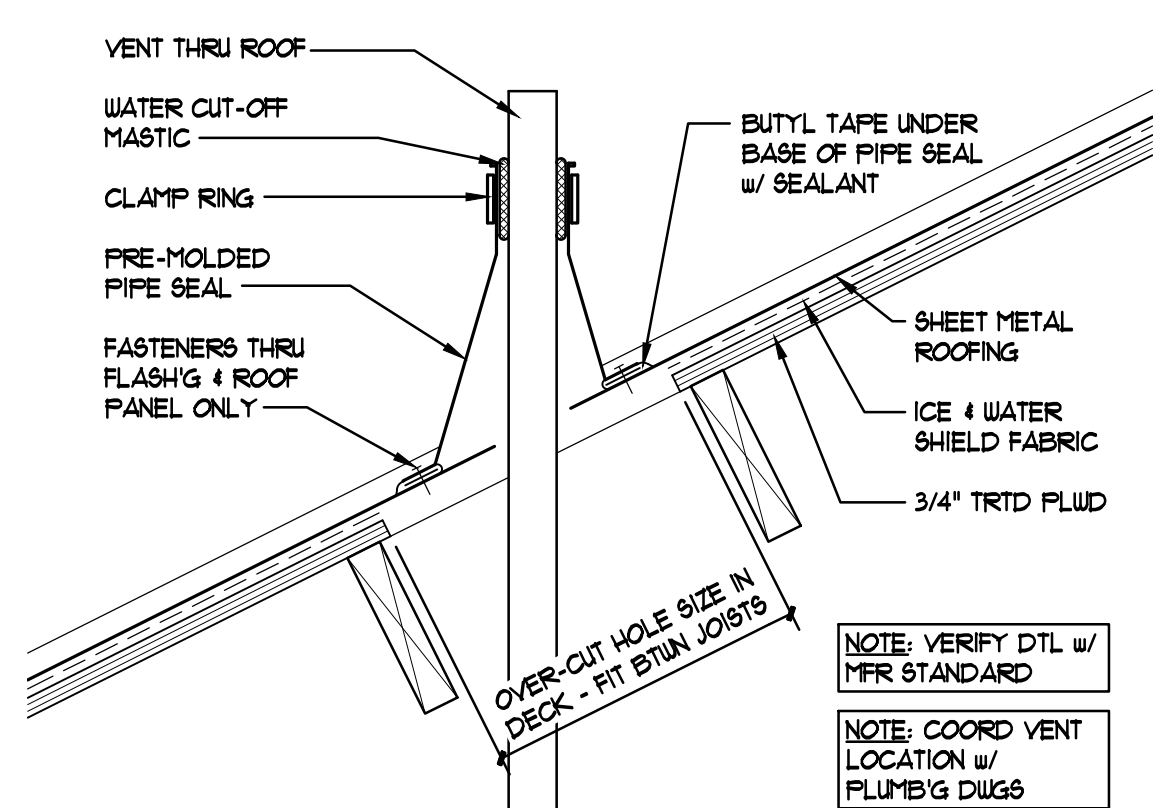
 MEPC STRUCTURAL ENGINEERS STRUCTURAL ENGINEER

 BEEKMAN POINT ENGINEERING PLUMBING & MECHANICAL ENGINEER

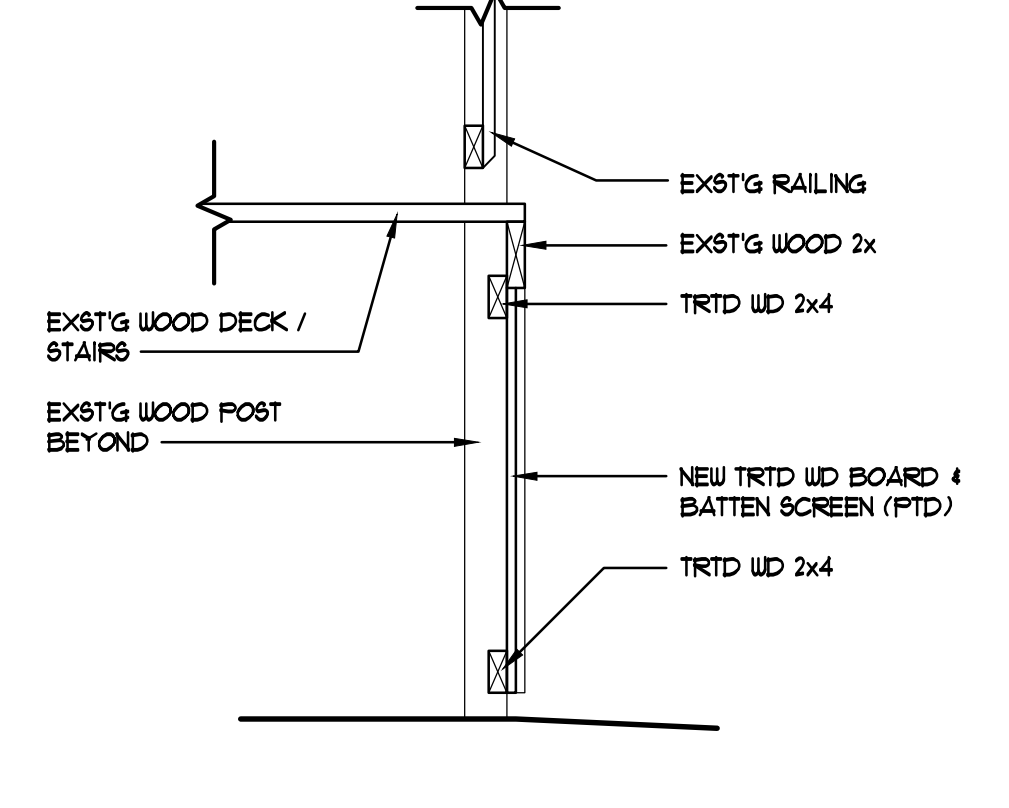
 B.E.C.I. ELECTRICAL ENGINEER

 GENERAL CONTRACTOR

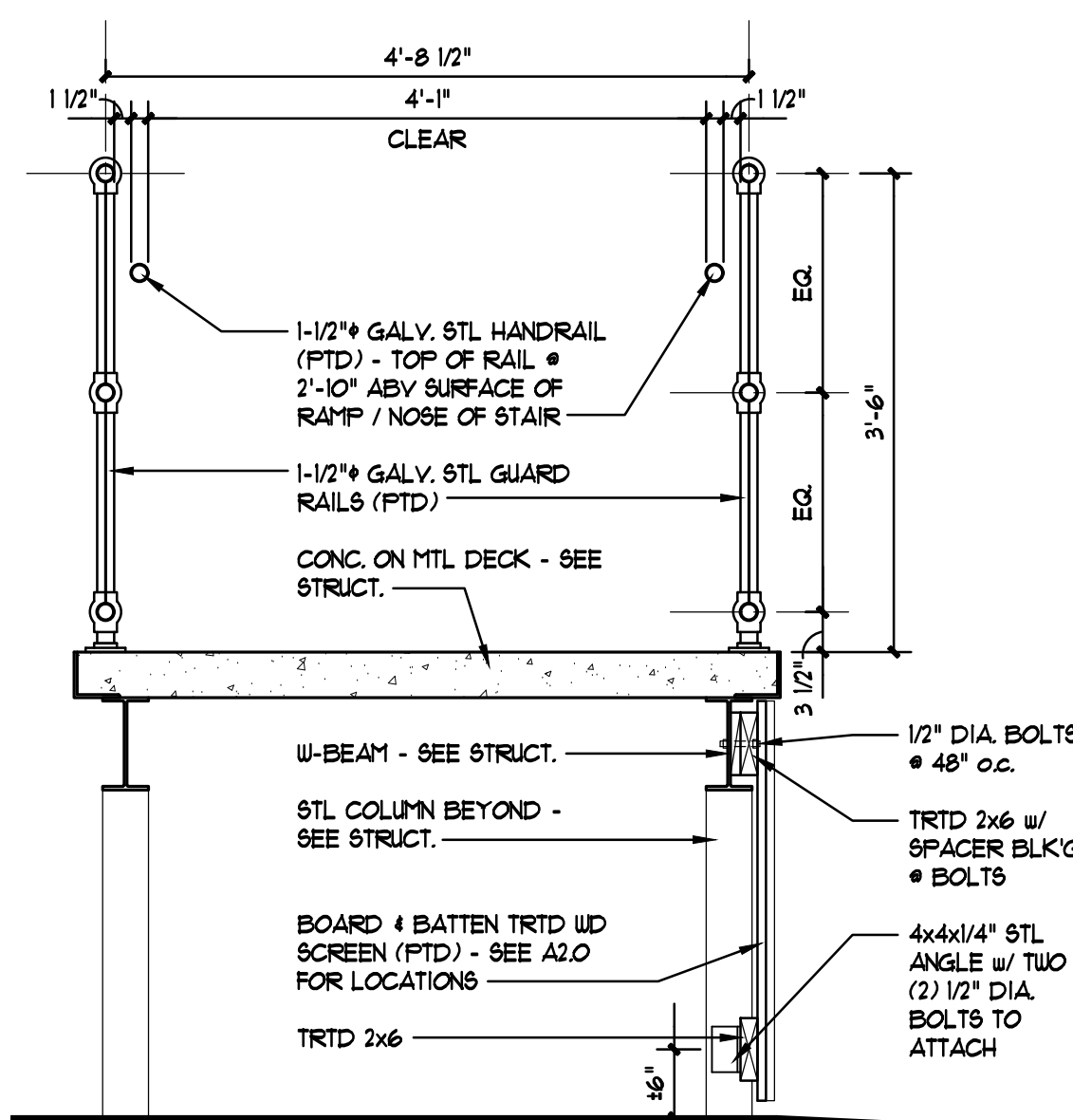
NOTE: ARCHITECT TO PROVIDE FINAL COPY OF PROJECT SIGN DESIGN ONCE GC IS SELECTED.



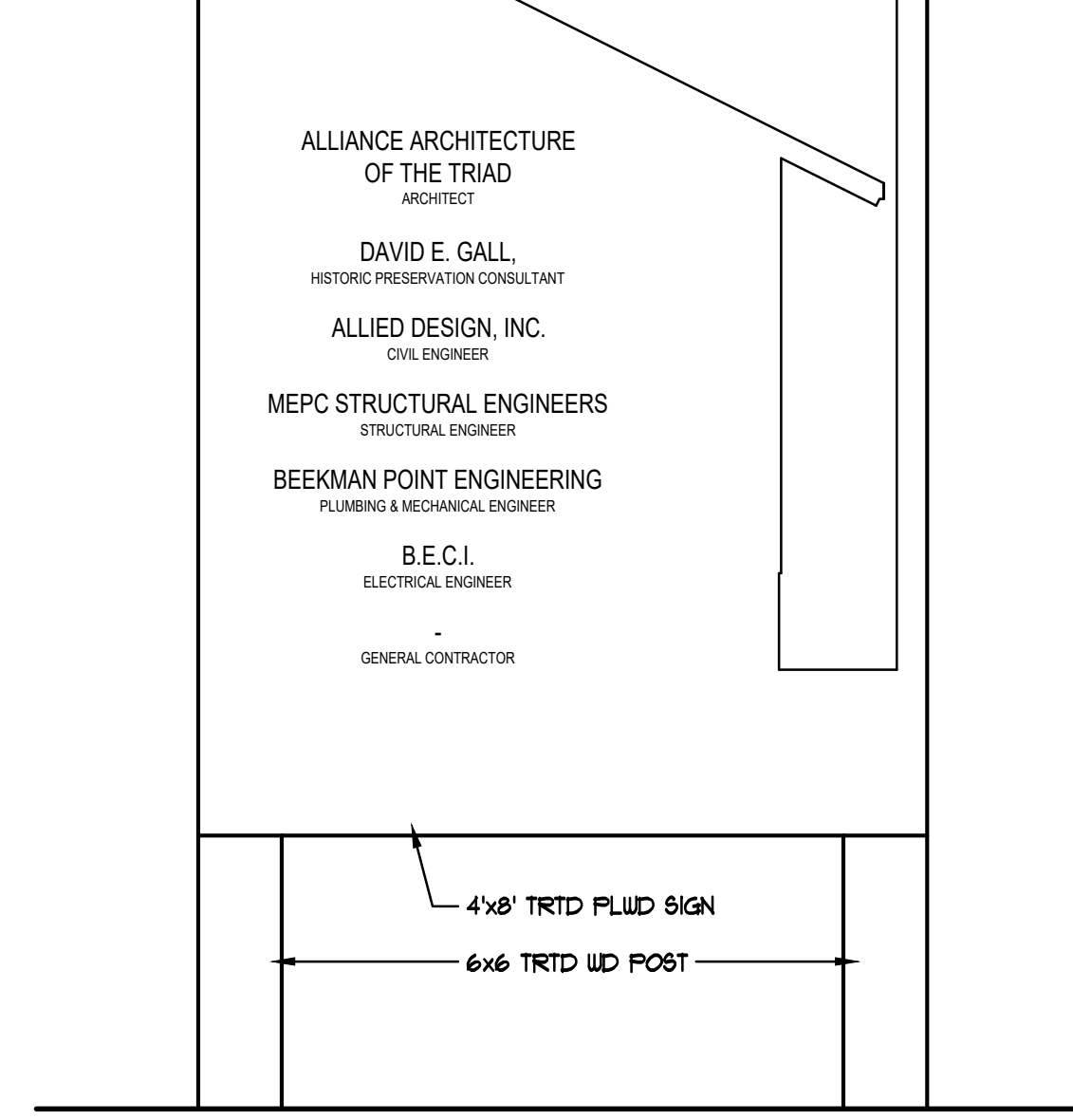
T228 VENT THRU ROOF DETAIL
 1-1/2" = 1'-0" D01623081



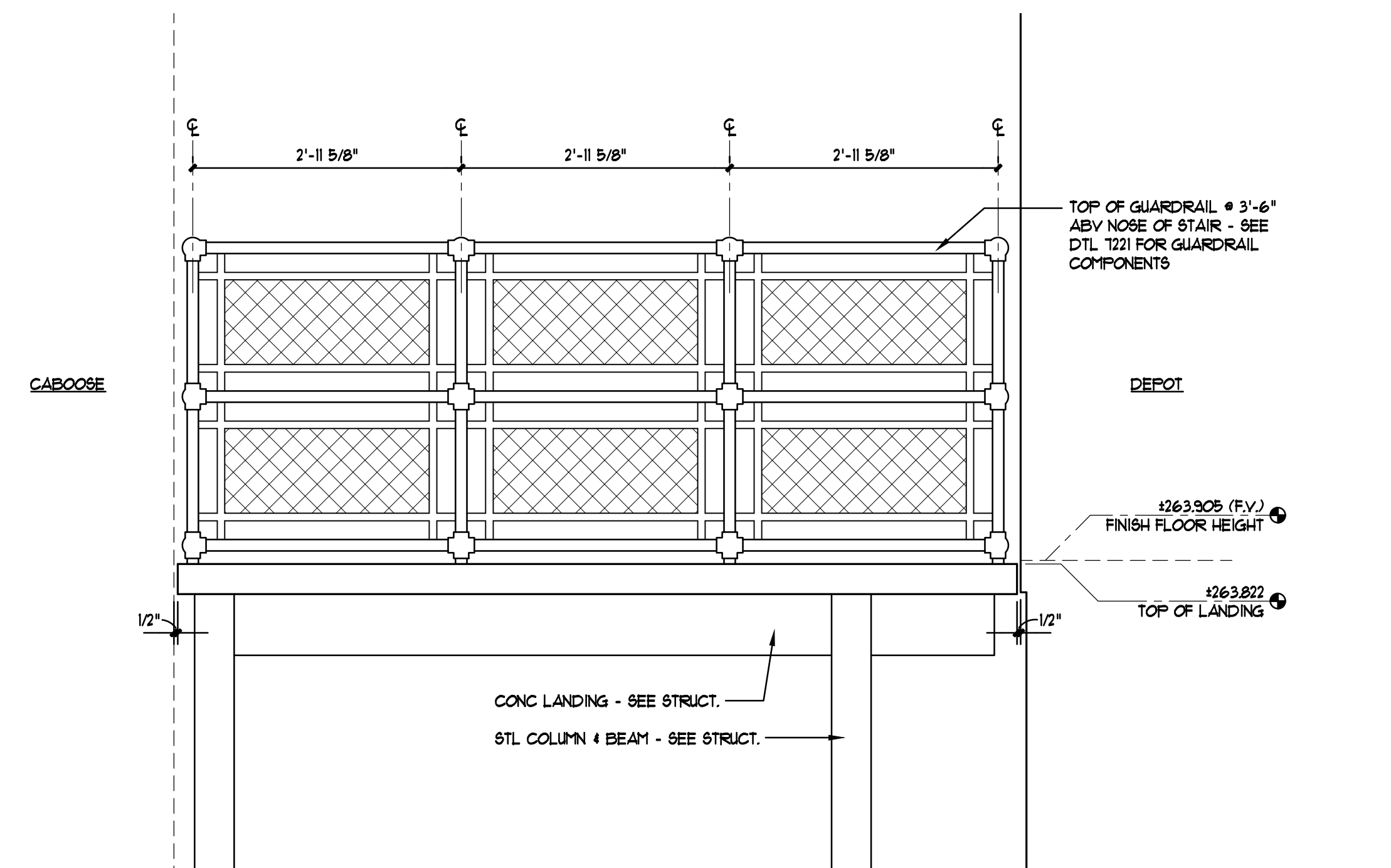
T227 SCREEN DETAIL
 3/4" = 1'-0" D00623081



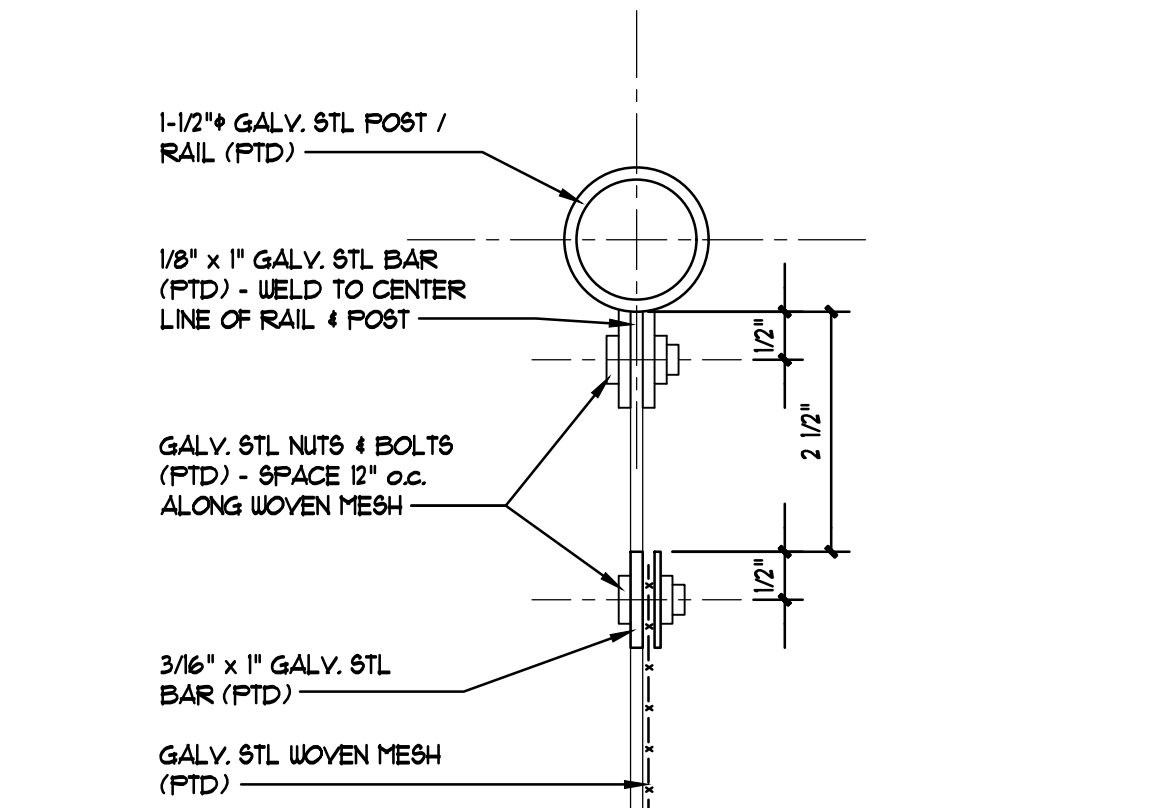
T220 RAMP SECTION
 3/4" = 1'-0" D00623081



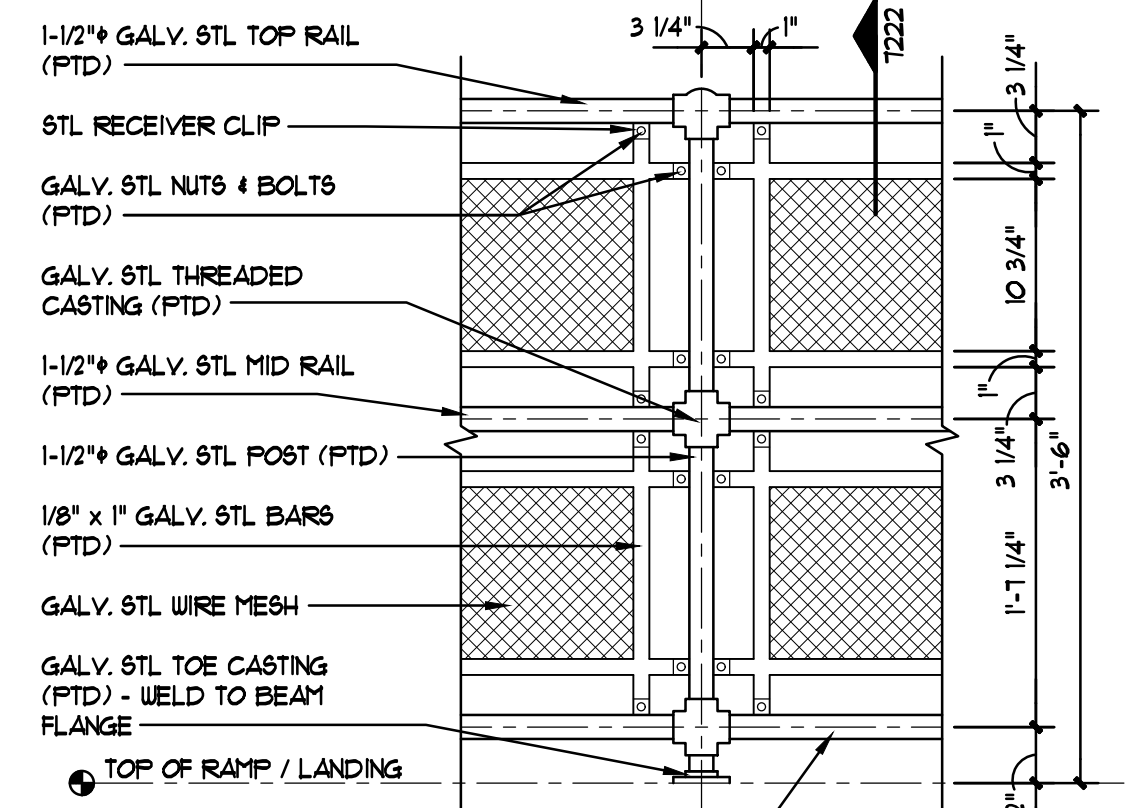
T219 ALTERNATE 3: PROJECT SIGN
 1" = 1'-0" D00123081



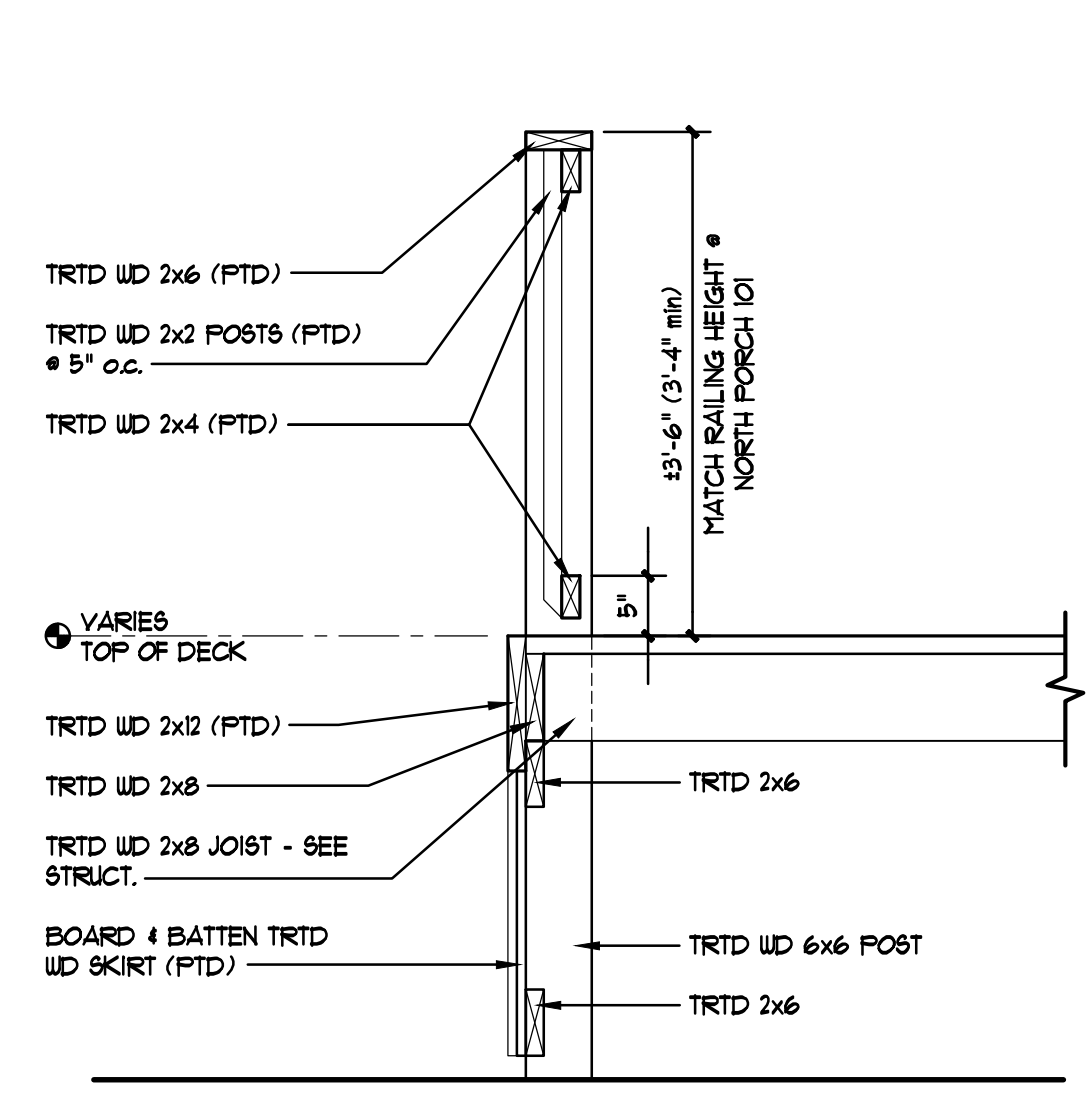
T223 GUARD RAIL ELEVATION
 3/4" = 1'-0" D00623081



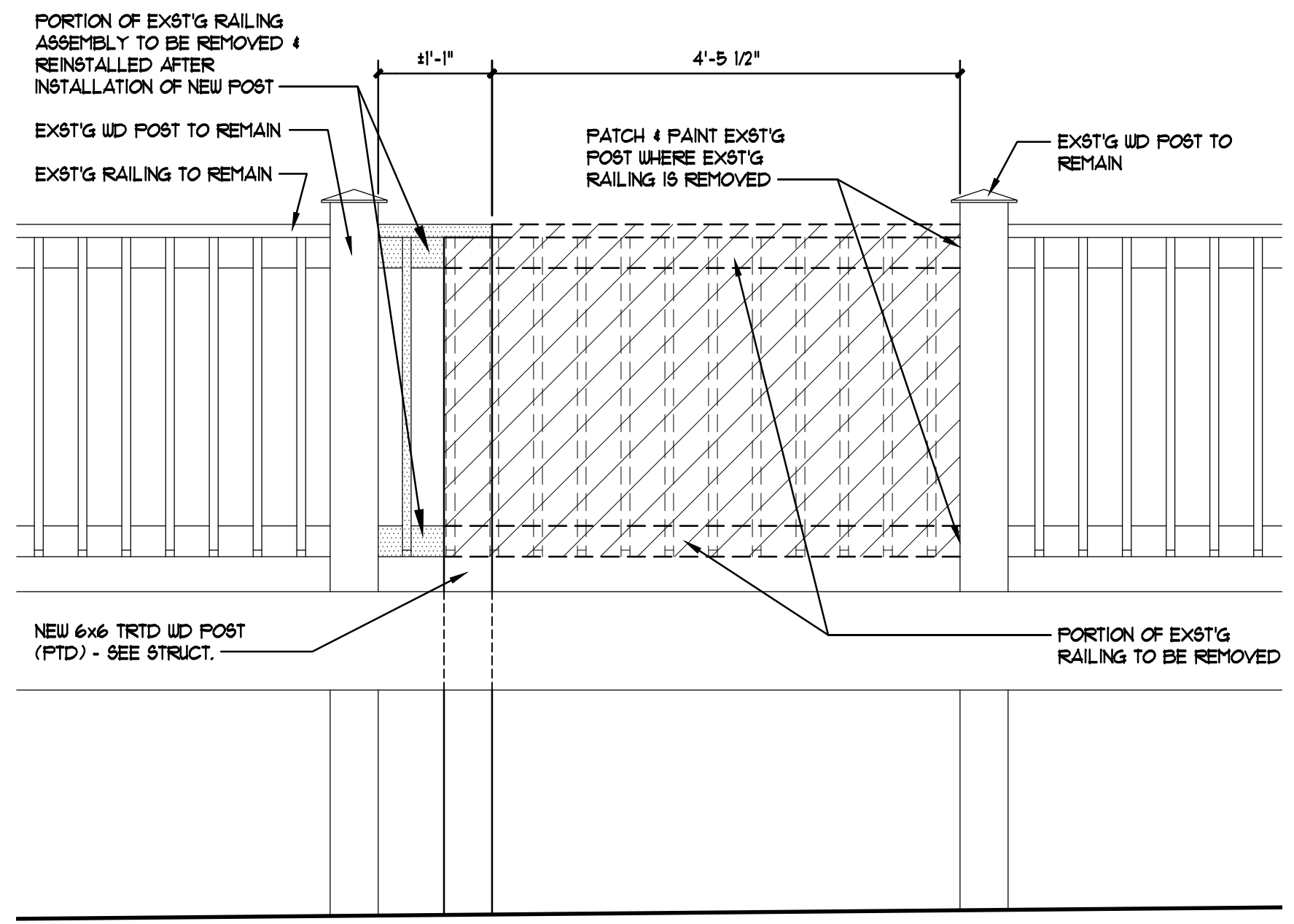
T222 GUARD RAIL DETAIL
 6" = 1'-0" D00623081



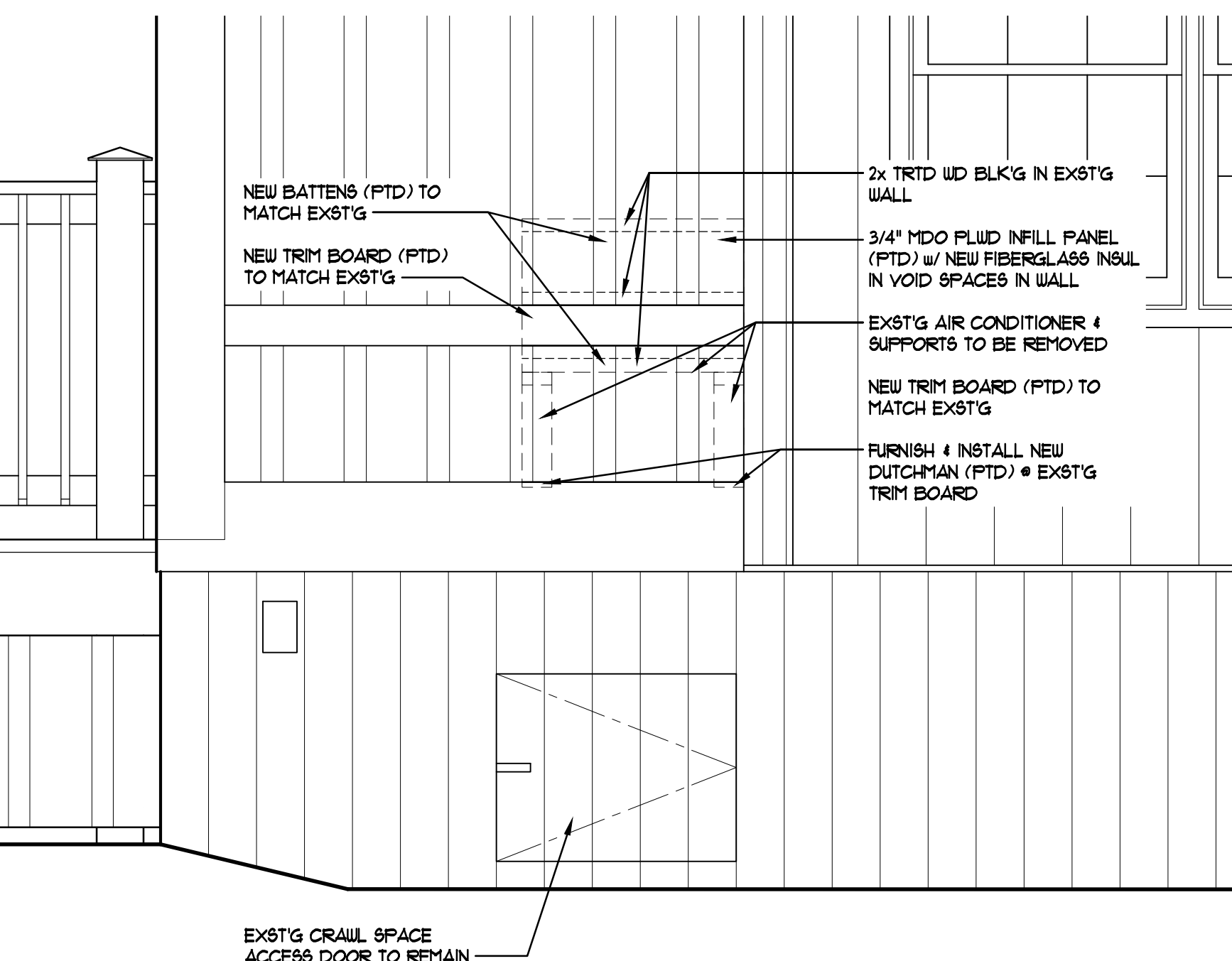
T221 GUARD RAIL ELEVATION
 1" = 1'-0" D00623081



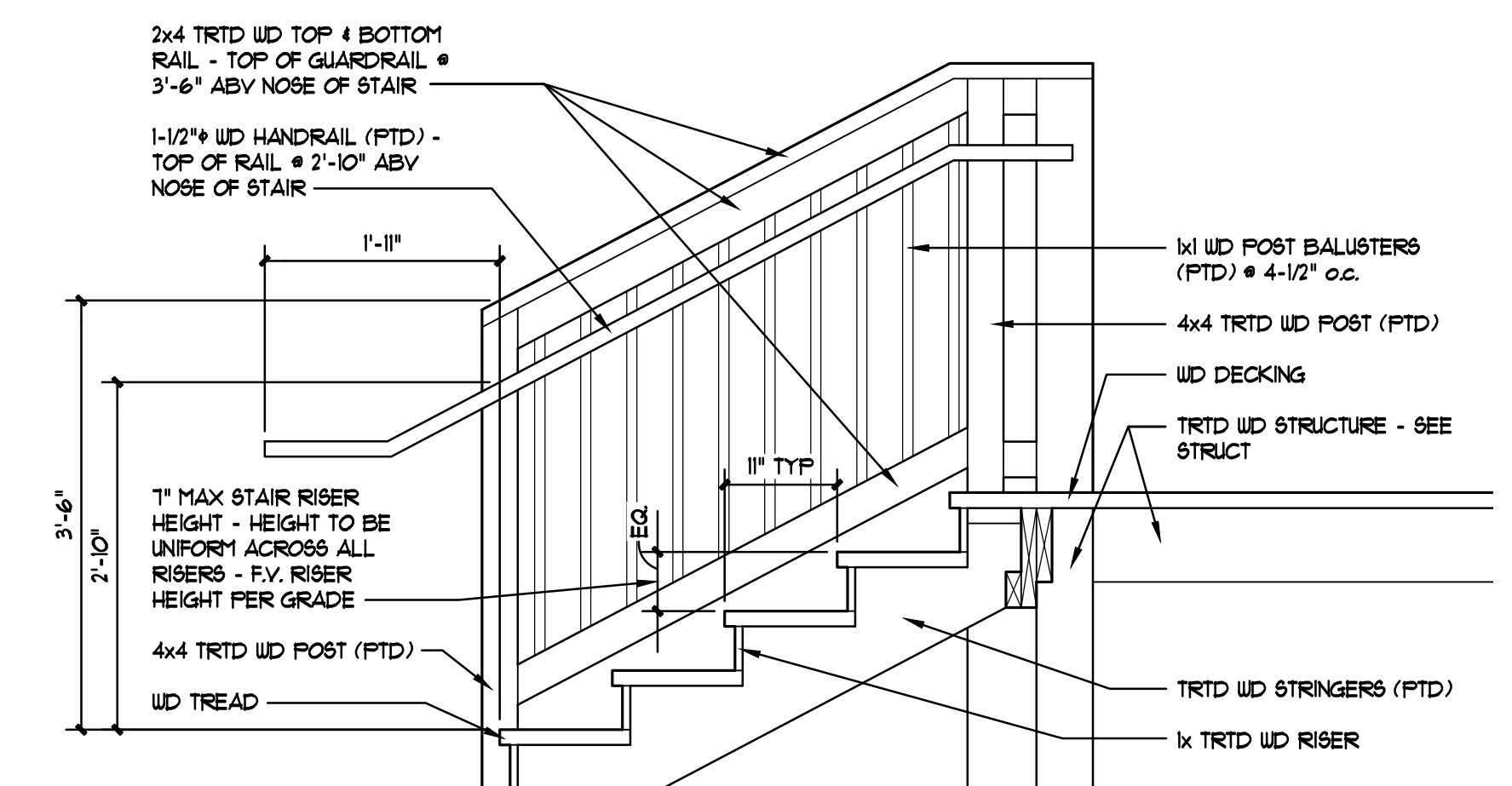
T211 SECTION @ BRIDGE CONNECTOR
 3/4" = 1'-0" U80223081



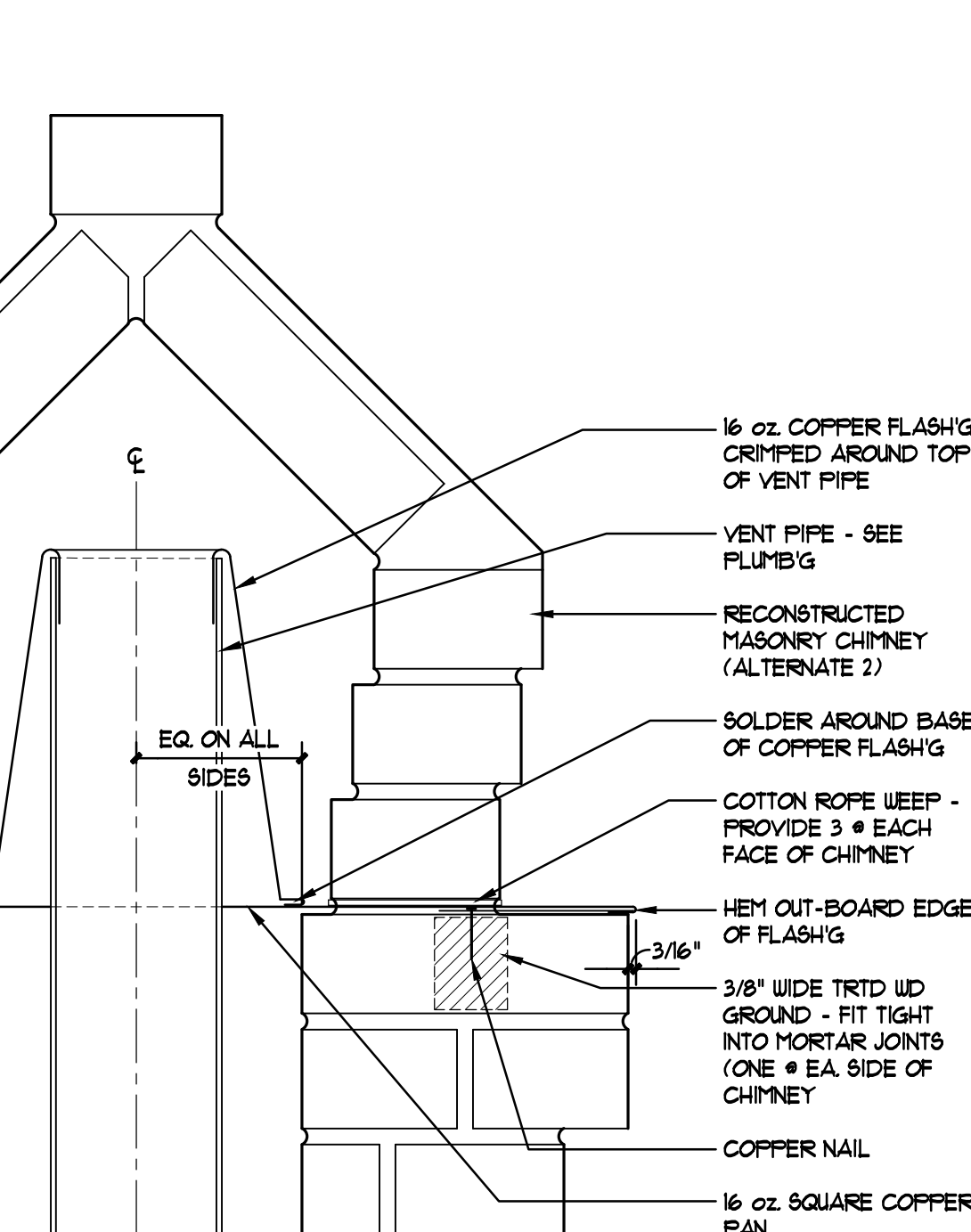
T210 NORTH PORCH RAILING DETAIL
 3/4" = 1'-0" U80223081



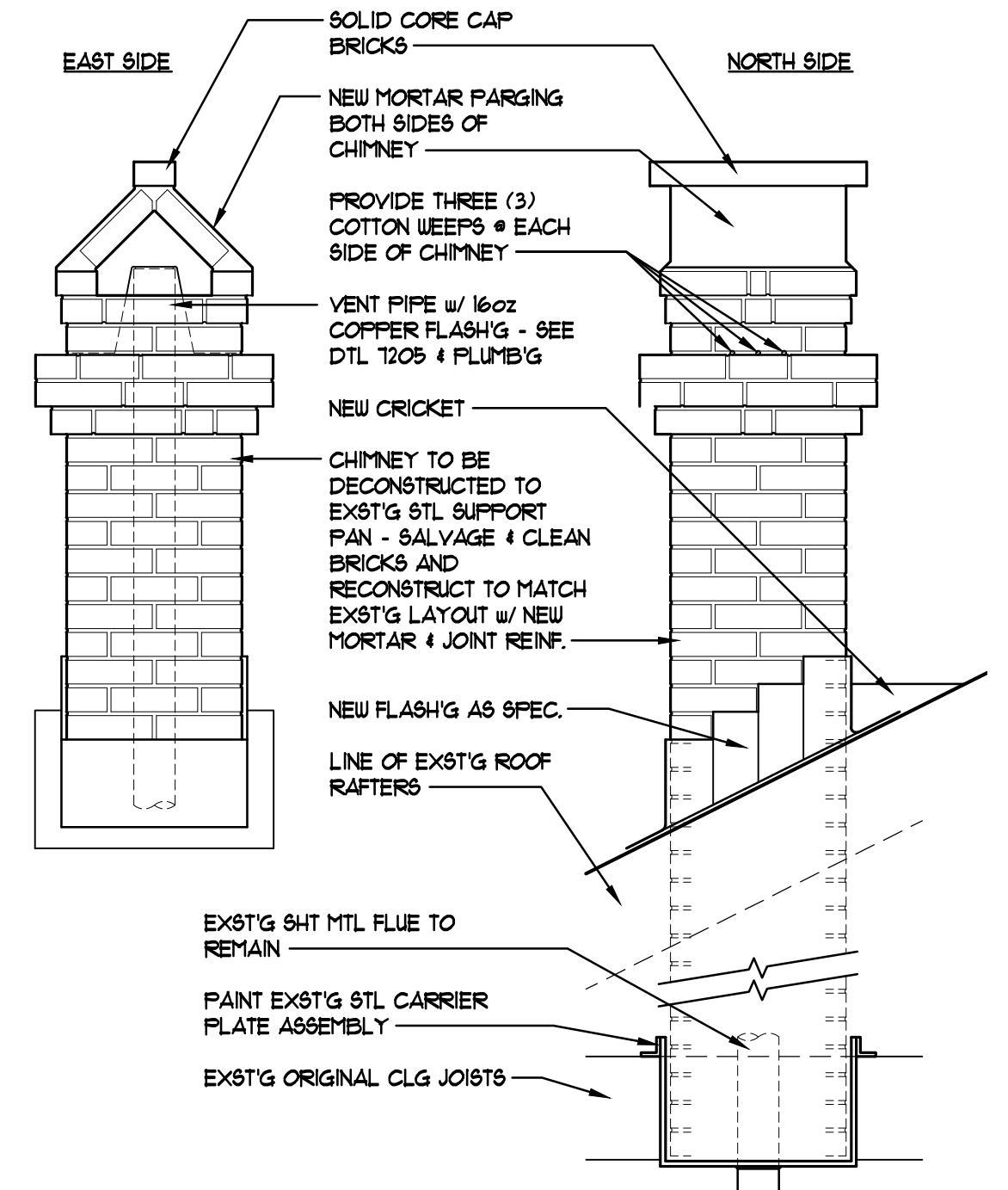
T208 WALL PATCH DETAIL
 3/4" = 1'-0" BEO123081



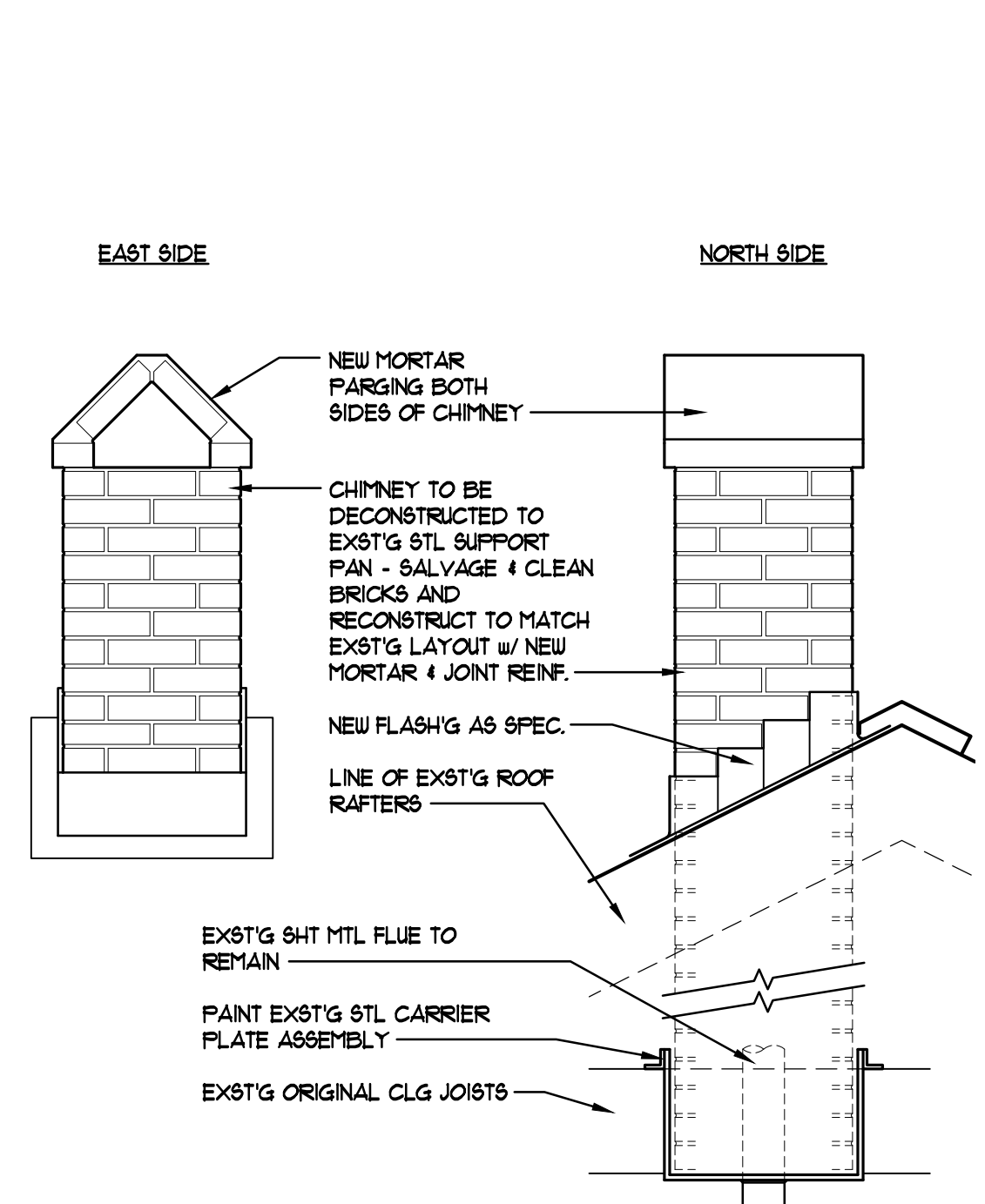
T207 STAIR DETAIL @ PLATFORM
 3/4" = 1'-0" U80223081



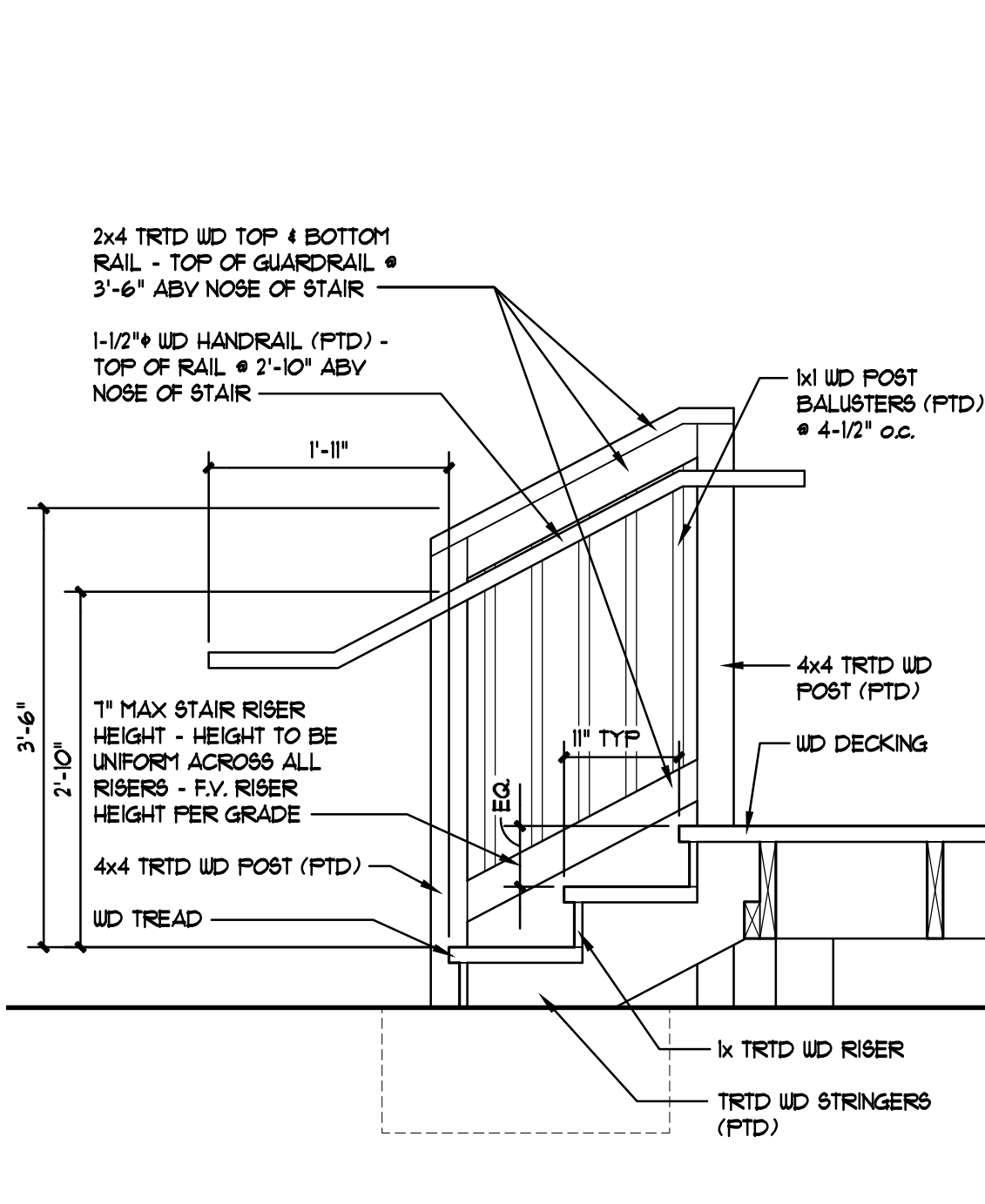
T205 CHIMNEY FLASHING DETAIL
 3" = 1'-0" D00123081



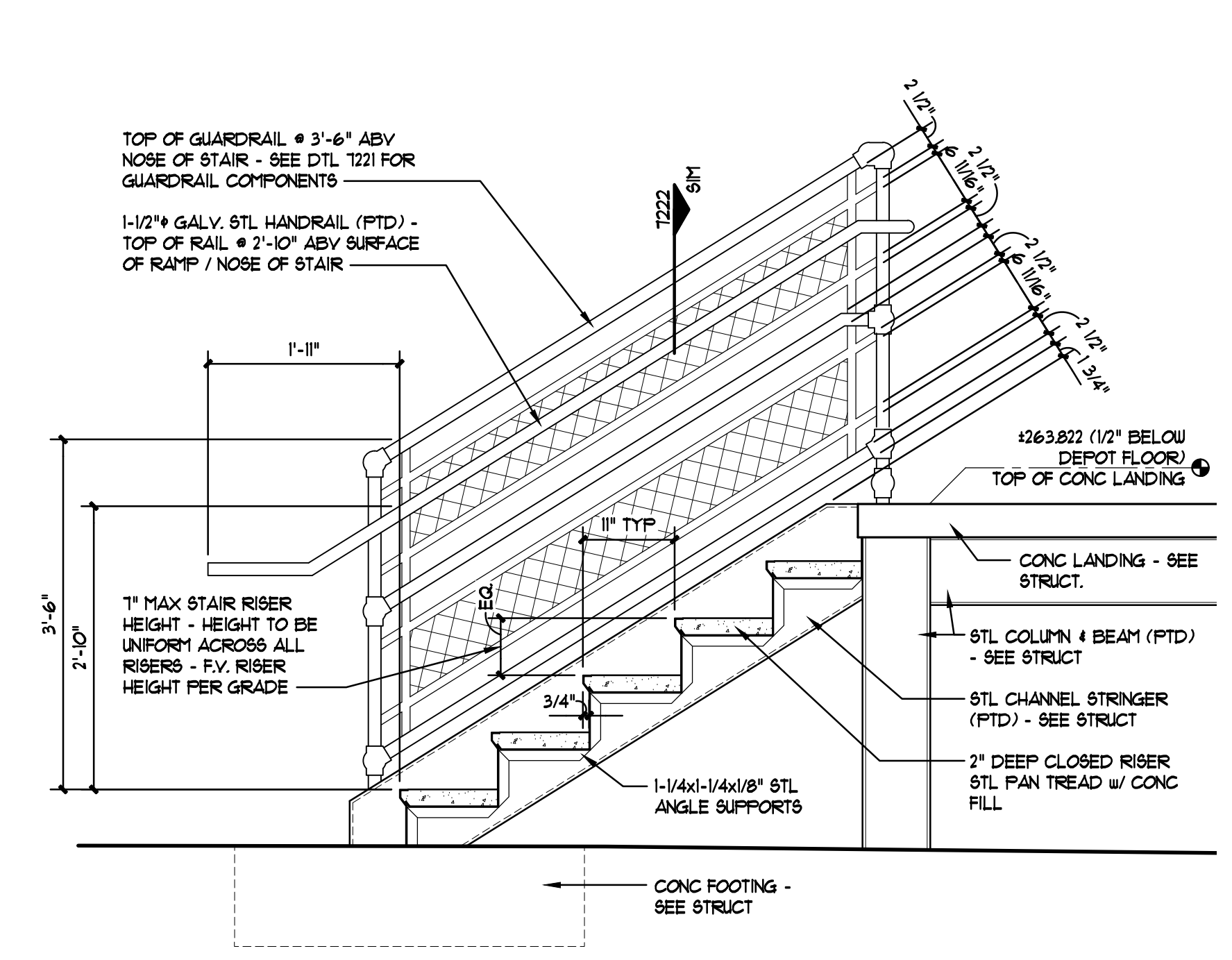
T204 ALTERNATE 2: WEST CHIMNEY ELEVATIONS
 3/4" = 1'-0" D00123081



T203 ALTERNATE 2: EAST CHIMNEY ELEVATIONS
 3/4" = 1'-0" D00123081



T202 STAIR DETAIL @ PLATFORM
 3/4" = 1'-0" D00123081



T201 STAIR DETAIL @ DEPOT
 3/4" = 1'-0" U80223081

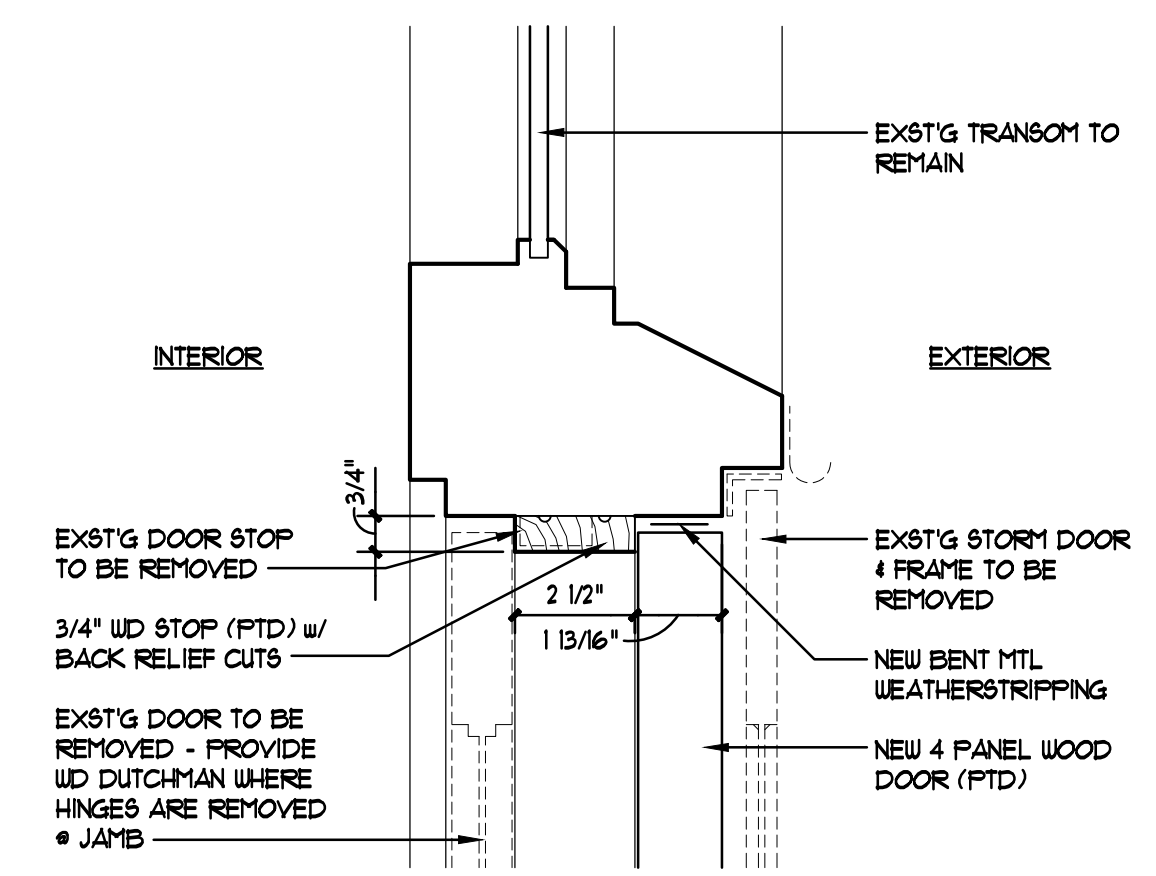
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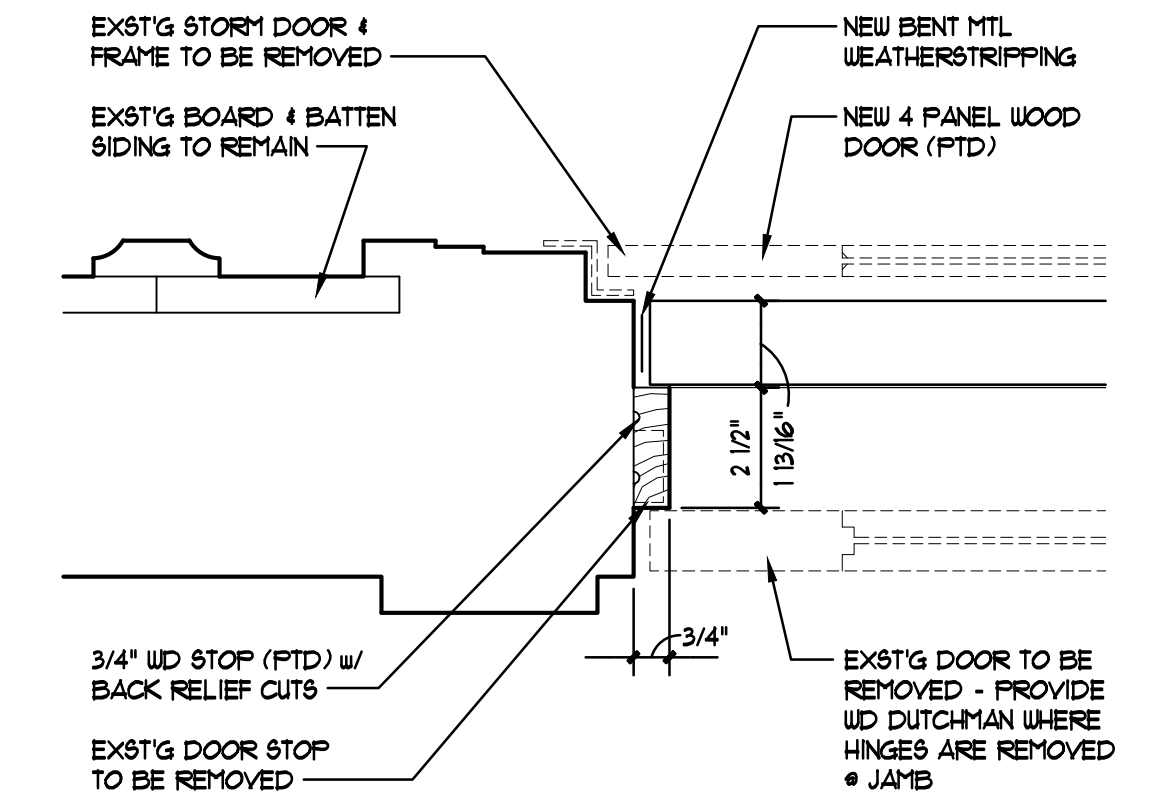
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SPRING HOPE RAILROAD DEPOT
 Building Rehabilitation & Platform Addition
 101 South Ash Street
 Spring Hope, North Carolina 27982

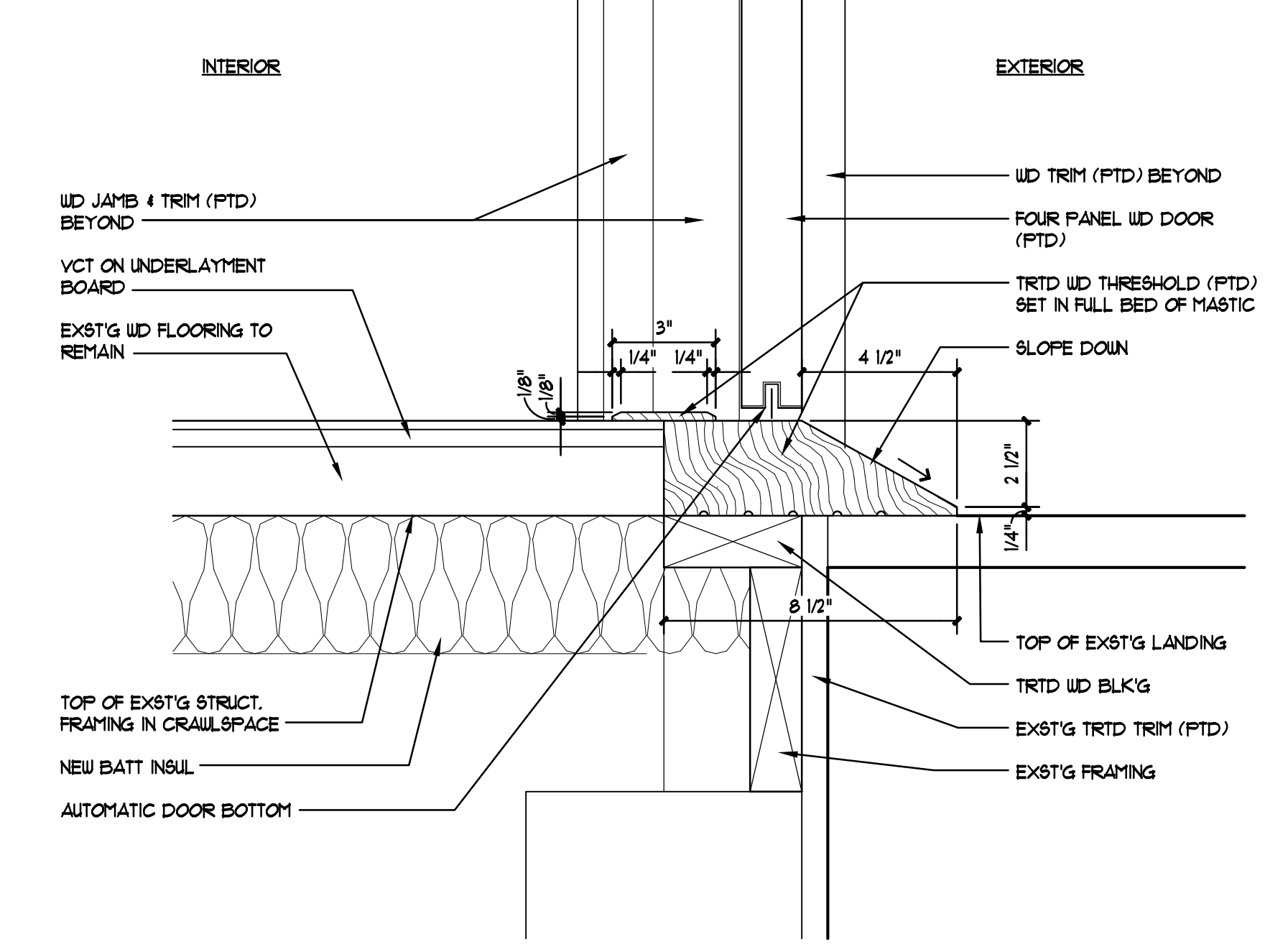
JOB 22081
 DATE February 26, 2025
 DRAWN T. Doan
 SHEET



8130 DOOR HEAD DETAIL
3" = 1'-0"
DOOR23081



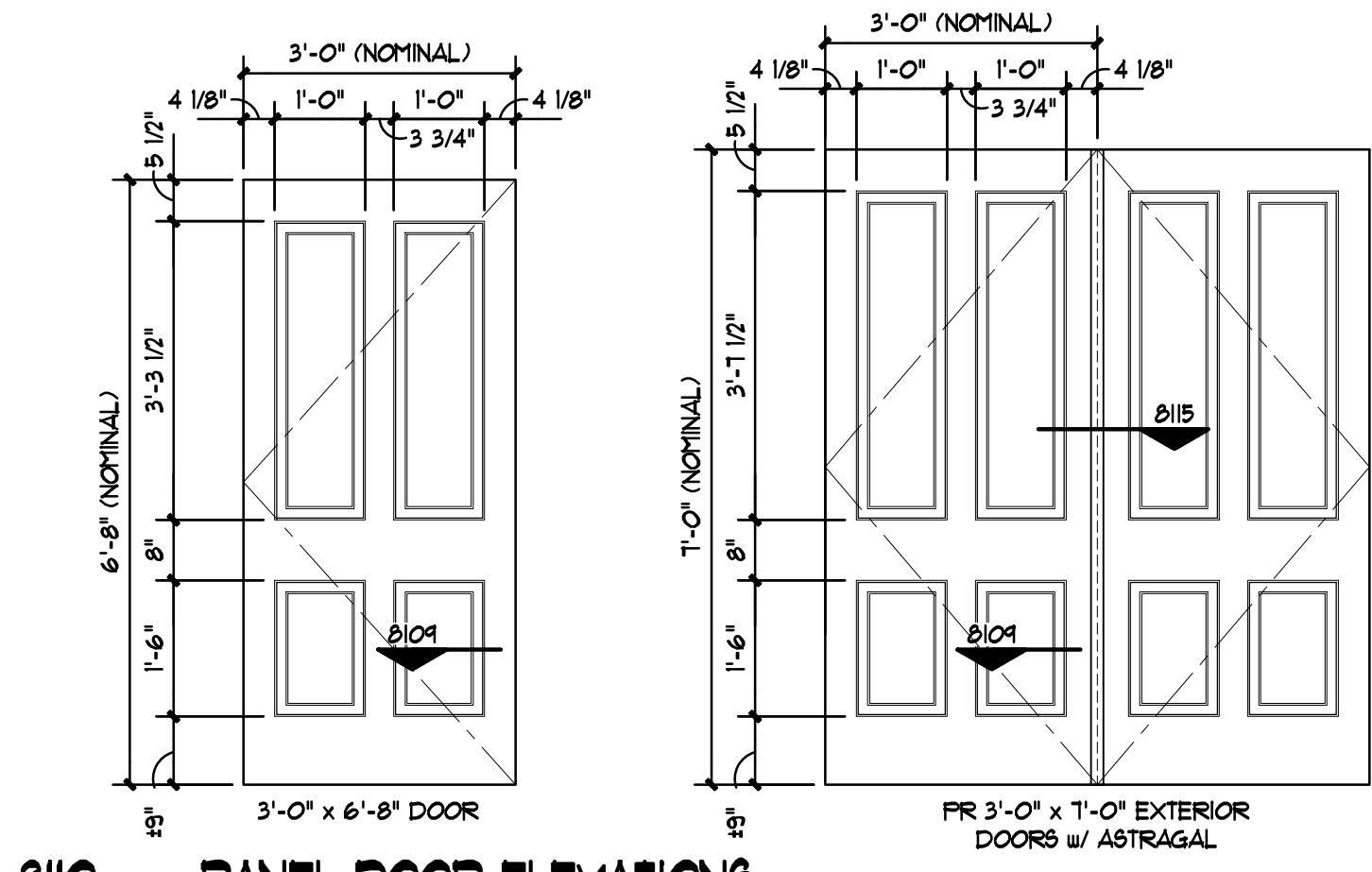
8124 DOOR JAMB DETAIL
3" = 1'-0"
DOOR23081



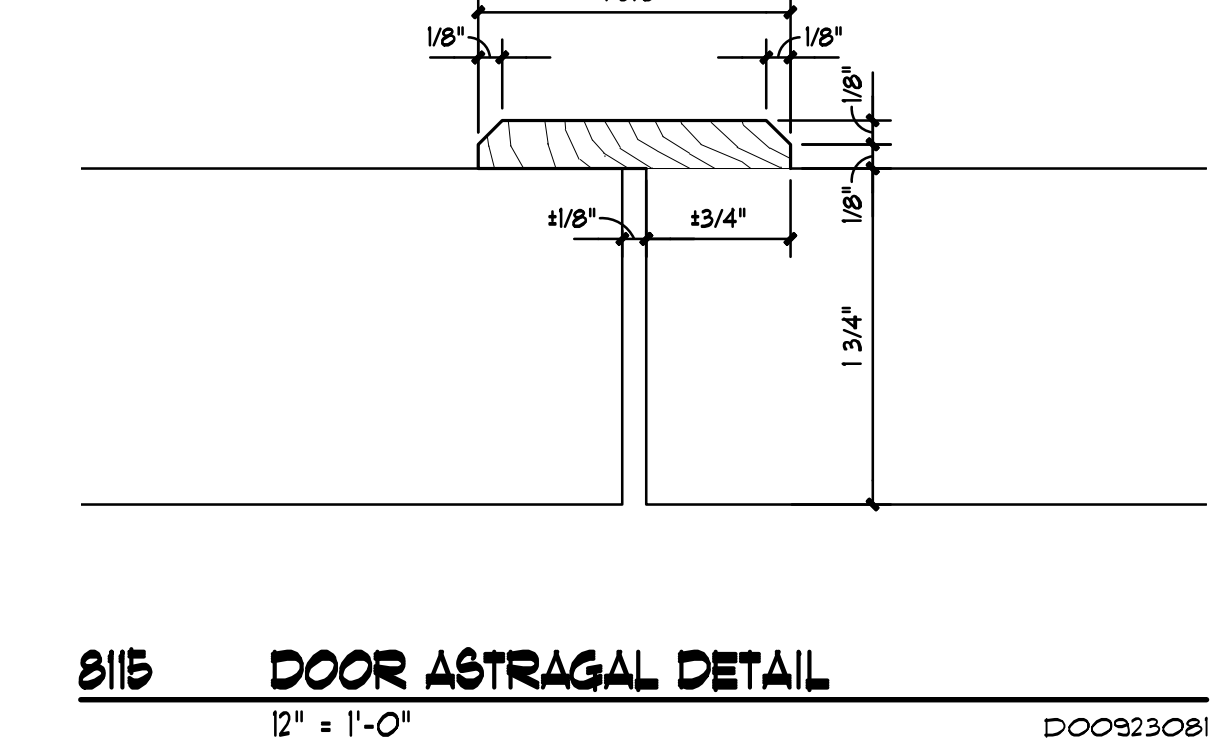
8111 DOOR THRESHOLD DETAIL
3" = 1'-0"
DOOR23081

ROOM NUMBER	ROOM NAME	FLOOR				BASE				WAINSCOT				WALLS				CEILING				REMARKS
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
101	NORTH PORCH																					SEE ALTERNATE 1, SEE FIN NOTES 3, 4
102	EVENT SPACE																					SEE FIN NOTES 5, 6
103	CABOOSE BRIDGE																					SEE FIN NOTES 1, 2
104	NETWORK ROOM																					
105	CORRIDOR																					
106	SOUTH LOBBY																					
107	CORRIDOR																					
108	MEN'S RESTROOM																					
109	WOMEN'S RESTROOM																					
110	JANITOR'S CLOSET																					
111	CATERER'S FOOD PREP																					
112	CATERER'S FOOD STOR.																					
113	SOUTH STAIR																					
114	STAIR																					SEE ALTERNATE 1
115	RAMP																					SEE FIN NOTES 1, 2, 4
116	STAIR																					SEE FIN NOTES 1, 2, 4
117	CLOSET																					
118	RISER ROOM																					
119	RAMP																					
120	EVENTS PLATFORM																					
121	RAMP																					
122	CORRIDOR																					
123	JANITOR CLOSET																					
124	MEN'S RESTROOM																					
125	WOMEN'S RESTROOM																					
126	RISER ROOM																					*CLG HEIGHT MEASURED FROM 262.75 HEIGHT

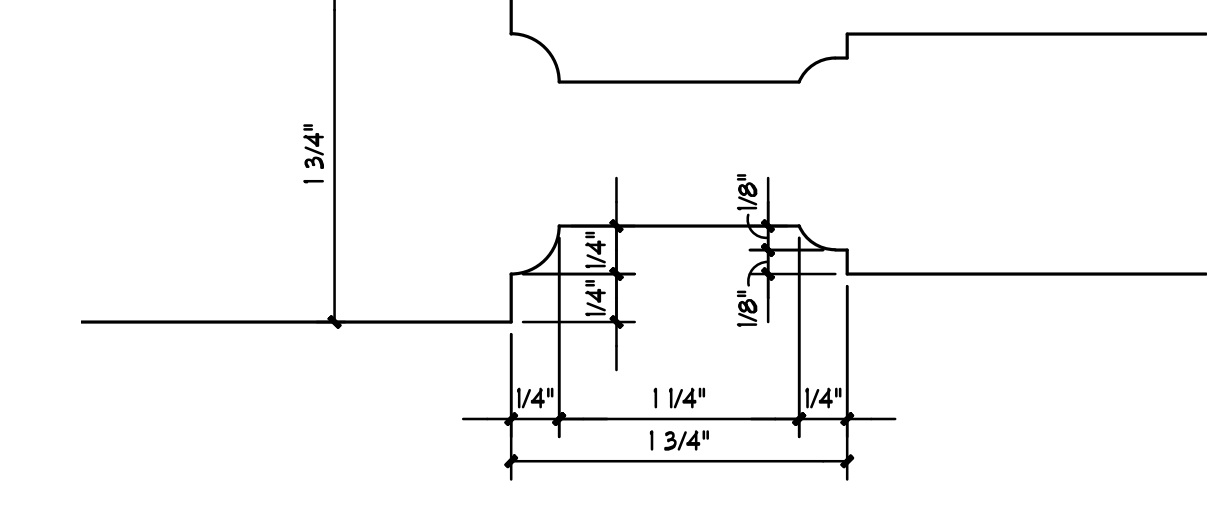
- FINISH NOTES**
1. PAINT ALL EXPOSED SURFACES OF STRUCT STL, INCLUDING UNDERSIDE OF STL DECK 4 STAIR.
 2. PAINT POST 4 RAILING ASSEMBLIES.
 3. PAINT AREAS WHERE EXIST'G LIGHT FIXTURES ARE REMOVED.
 4. PAINT NEW DOORS 4 FRAMES.
 5. PAINT EXPOSED ELEC CONDUITS 4 JUNCTION BOXES.
 6. PAINT NEW WD BLKG SUPPORTING NEW PADDLE FANS, LIGHT FIXTURES, 4 CURTAIN TRACK.



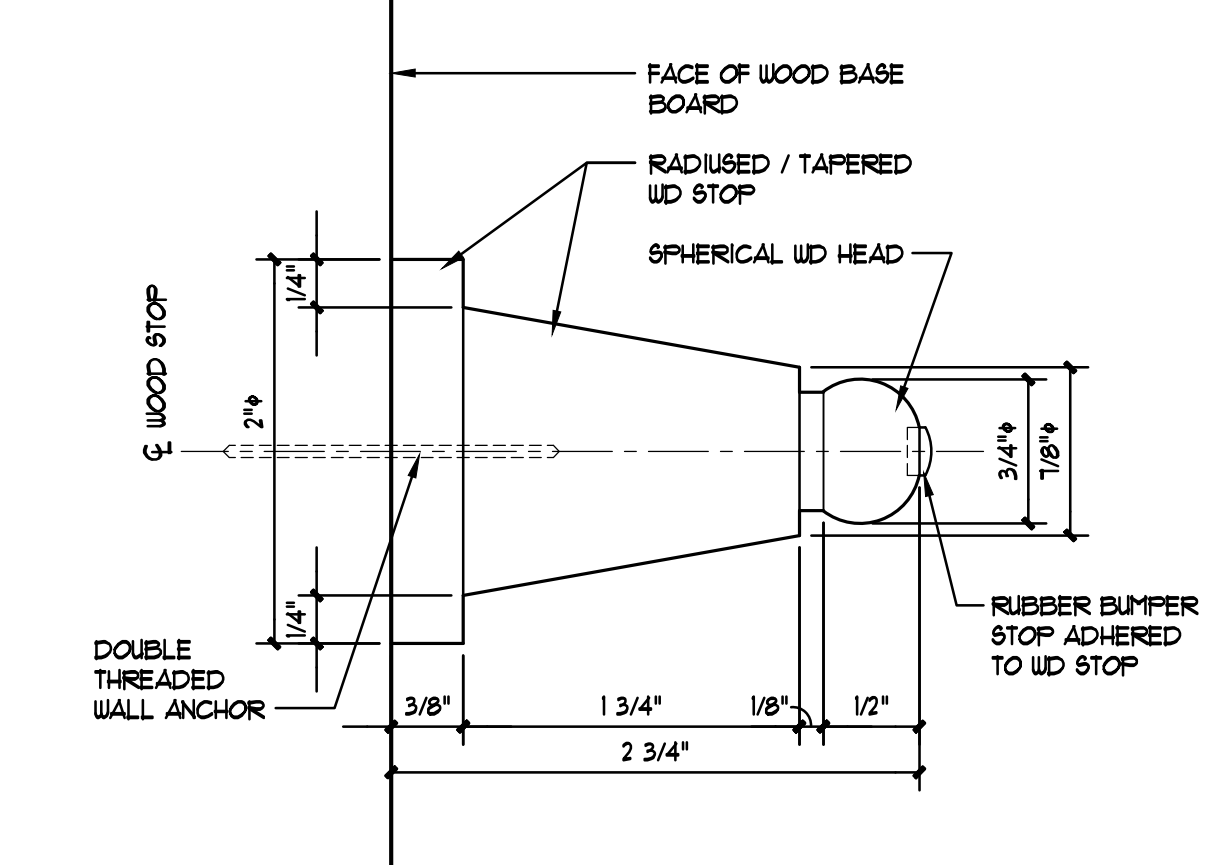
8110 PANEL DOOR ELEVATIONS
1/2" = 1'-0"
DOOR23081



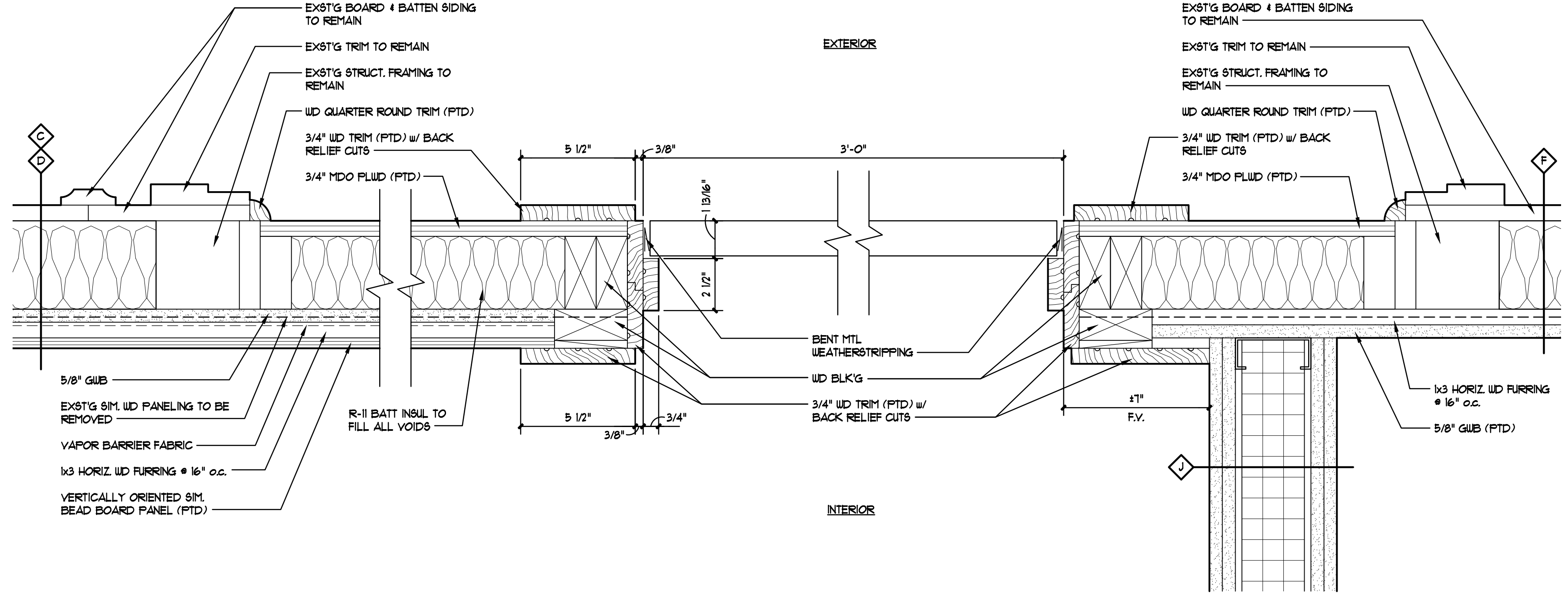
8115 DOOR ASTRAGAL DETAIL
1/2" = 1'-0"
DOOR23081



8109 PANEL DOOR PROFILE DETAIL
1/2" = 1'-0"
DOOR23081



8103 DOOR STOP DETAIL
1/2" = 1'-0"
DOOR23081



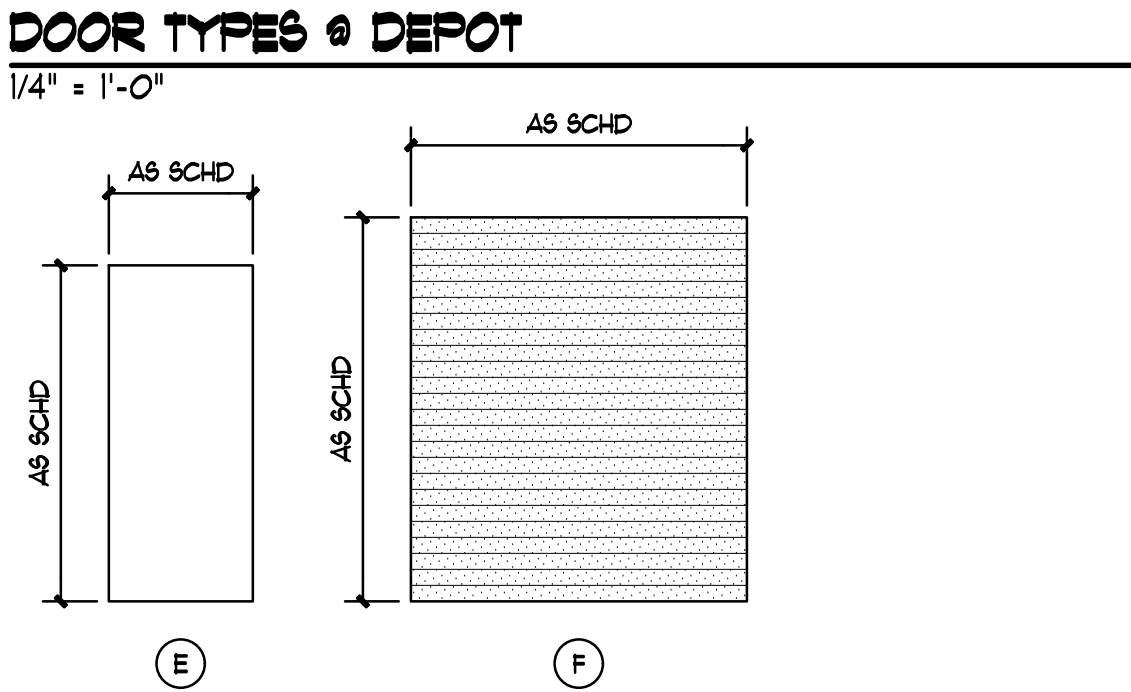
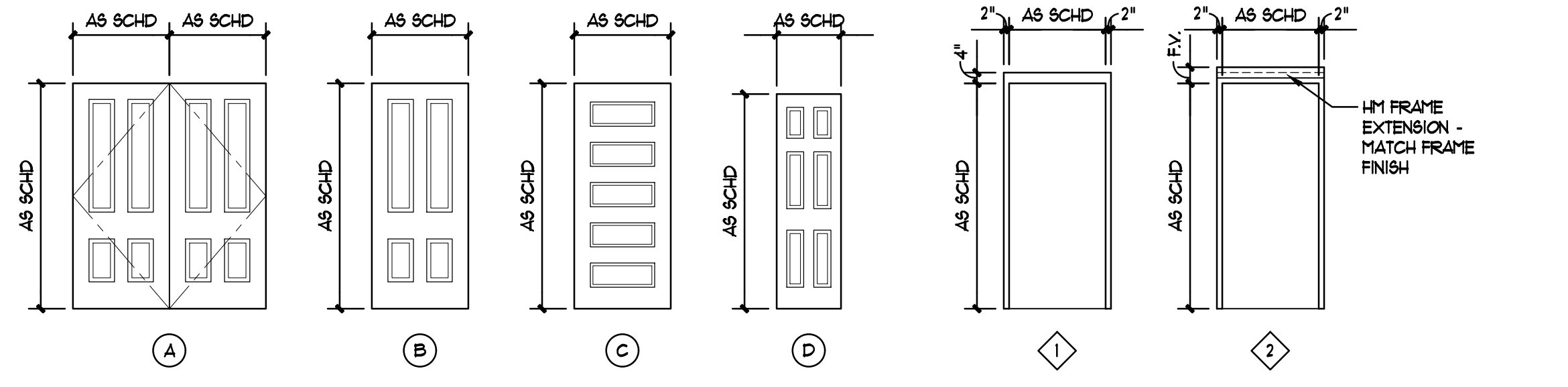
8104 DOOR JAMB DETAIL
3" = 1'-0"
DOOR23081

WINDOW NUMBER	REMARKS	SASH TASKS																TYPE OF SASH	REMARKS
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
N1																	DH	NOTE #1, 4	
N2																	DH	NOTE #1, 4	
N3																	DH	NOTE #4, 5	
U1																	DH	NOTE #1, 4	
U2																	DH	NOTE #1, 4	
U3																	FIXED	NOTE #4	
U4																	DH	NOTE #1, 4	
U5																	DH	NOTE #1, 4	
U6																	FIXED	NOTE #1, 4	
U7																	DH	NOTE #4, 5	
U8																	DH	NOTE #4, 5	
U9																	DH	NOTE #4, 5	
U10																	DH	NOTE #4, 5	
U11																	DH	NOTE #3, 4, 5	
U12																	DH	NOTE #4, 5	
U13																	DH	NOTE #4, 5	
U14																	DH	NOTE #4, 5	
U15																	DH	NOTE #4, 5	
U16																	FIXED	NOTE #1	
U17																	FIXED	NOTE #1, 3	

- WINDOW REHABILITATION NOTES**
1. FURNISH 4 INSTALL NEW SASH FULL. SEE SPECS.
 2. REMOVE, CLEAN, REPAIR, 4 REINSTALL EXIST'G SASH LOCKS. VERIFY ALL SASHES LOCK AFTER WORK IS COMPLETE.
 3. REMOVE LOGO FROM GLASS.
 4. BASE BID; PAINT ONLY INTERIOR WOOD.
 5. FURNISH 4 INSTALL SASH FULL, SASH LOCK, FULLY WHEELS, ROPES, COUNTERWEIGHTS, AND BENT METAL WEATHERSTRIPPING. SEE SPECS.
 6. SEE ALT. #1 FOR EXTERIOR PAINT REMOVAL AND NEW PAINT WORK.

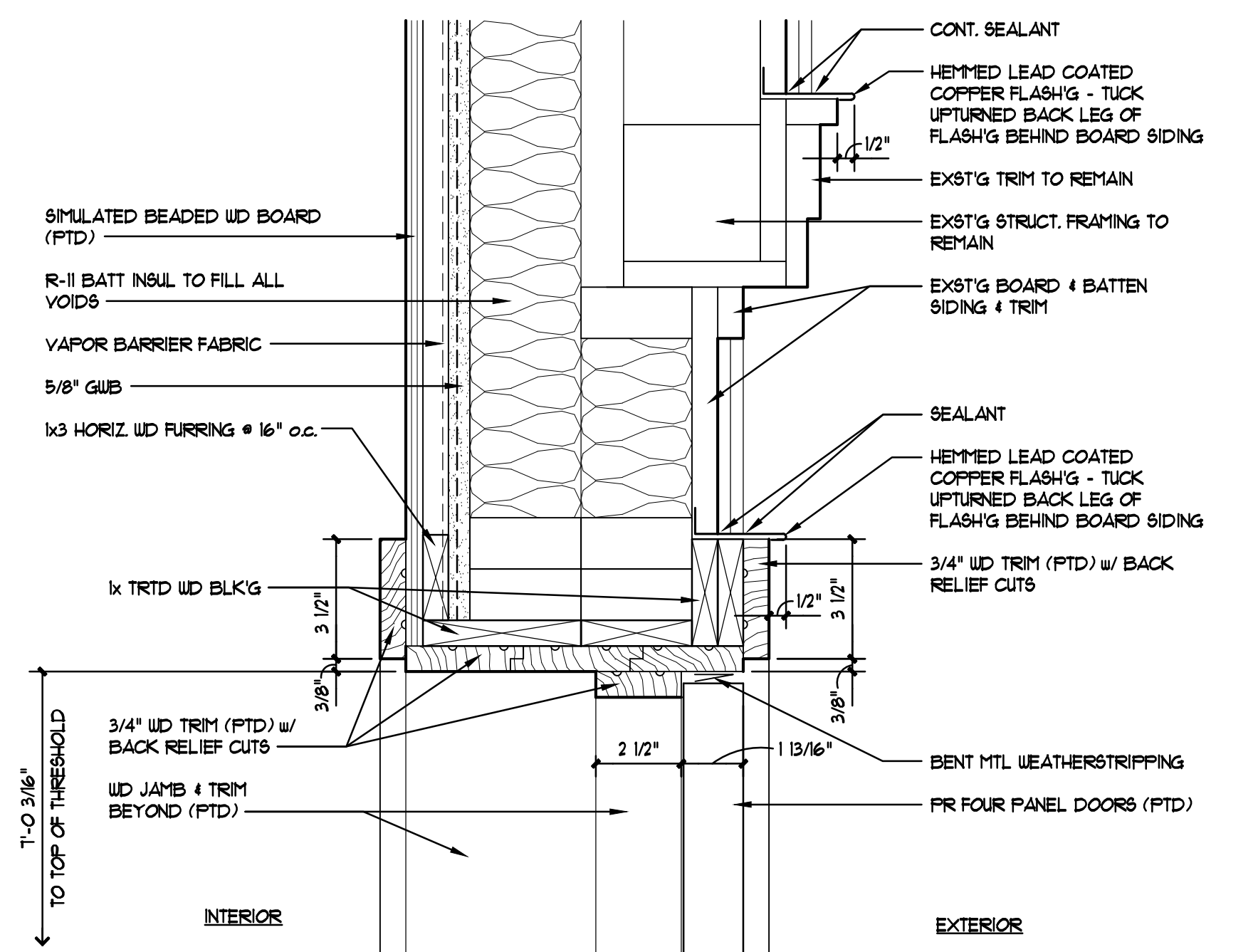
DOOR NO.	DOOR				FRAME				DETAILS				REMARKS
	W	H	T	MAT	GLASS	LOUVER	MAT	TYPE	THOLD	JAMB	HEAD	HOUR SET	
102A	FR 3'-0"	7'-0"	1 3/4"	WD A			WD		8215	8202	8221	01	SEE NOTE 6
102B	FR 3'-0"	7'-0"	1 3/4"	WD A			WD		8211	8204	8223	01	SEE NOTE 6
102C	3'-0"	7'-0"	1 3/4"	WD B			WD		8204	8220	02	SEE NOTE 6	
104				WD			WD					03	SEE NOTE 2
105	3'-0"	7'-0"	1 3/4"	WD B			WD		8201	8201	8213	05	SEE NOTES 5, 6
108	2'-11 3/4"	6'-10 3/4"	1 3/8"	WD B			WD		8218	8225	06	SEE NOTES 3, 5	
109	3'-0"	7'-0"	1 3/4"	WD B			WD		8218	8225	06	SEE NOTES 3, 5	
110	3'-0"	6'-11 1/2"	1 5/8"	WD C			WD		8201	8213	07	SEE NOTES 3, 5	
111	3'-0"	7'-0"	1 3/4"	WD B			WD		8201	8213	08	SEE NOTES 5, 6	
113	3'-0"	6'-8"	1 3/4"	WD B			WD		8301	824	830	03	SEE NOTE 6
114	3'-0"	6'-8"	1 3/4"	WD B			WD		8111	824	830	04	SEE NOTE 6
117	1'-11 5/8"	6'-1 3/4"	1 3/4"	WD D			WD					02	SEE NOTE 4
118	2'-0 1/4"	6'-8 1/4"	1 1/8"	WD F			WD		8201	8213	12	SEE NOTE 4	
122	7'-0"	8'-0"		HTL			HTL		8302	8308			OVERHEAD COILING GRILLE. SEE NOTE 1
123	3'-0"	7'-0"	1 3/4"	HM	E		HM	1	8320	8325	8315	10	INSULATED
124	3'-0"	7'-0"	1 3/4"	HM	E		HM	1	8320	8325	8315	10	INSULATED
125	3'-0"	7'-0"	1 3/4"	HM	E		HM	1	8320	8325	8315	10	INSULATED
126	3'-0"	7'-0"	1 3/4"	HM	E		HM	2	8326	8327	8321	09	INSULATED

- DOOR 4 FRAME NOTES**
1. EXIST'G HISTORIC FOUR PANEL DOOR TO BE REUSED
 2. EXIST'G HISTORIC VERTICAL BOARD SOLID WOOD DOOR 4 FRAME TO BE REUSED
 3. HISTORIC FOUR PANEL DOOR TO BE PROVIDED BY OWNER 4 INSTALLED BY GC.
 4. HISTORIC SIX PANEL DOOR TO BE PROVIDED BY OWNER 4 INSTALLED BY GC.
 5. PROVIDE PTD WD DOOR STOP PER DTL 8103
 6. SEE DTL 810 FOR NEW WOOD 4-PANEL DOOR DIMENSIONS 4 CROSS-SECTION

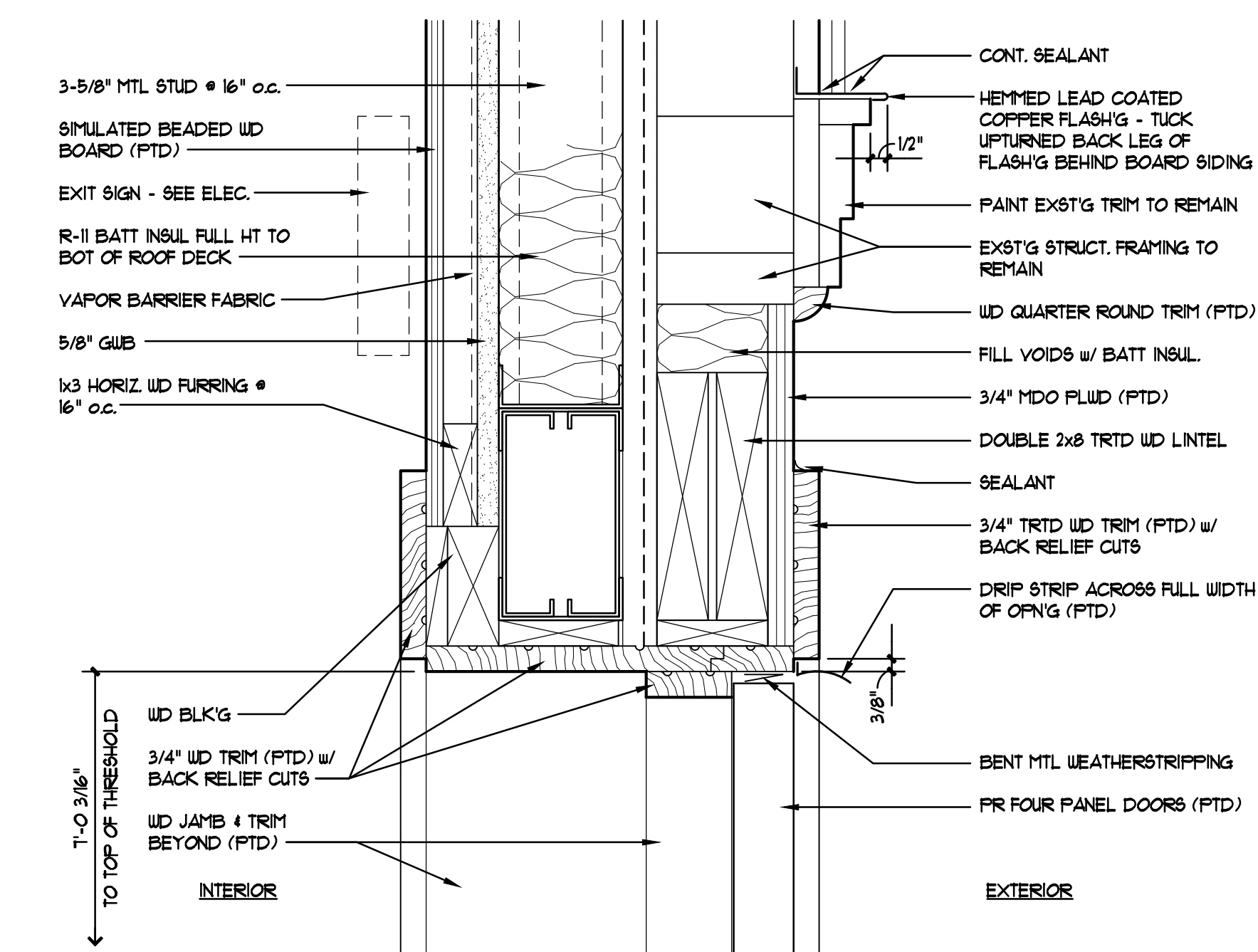


DOOR TYPES @ PLATFORM
1/4" = 1'-0"

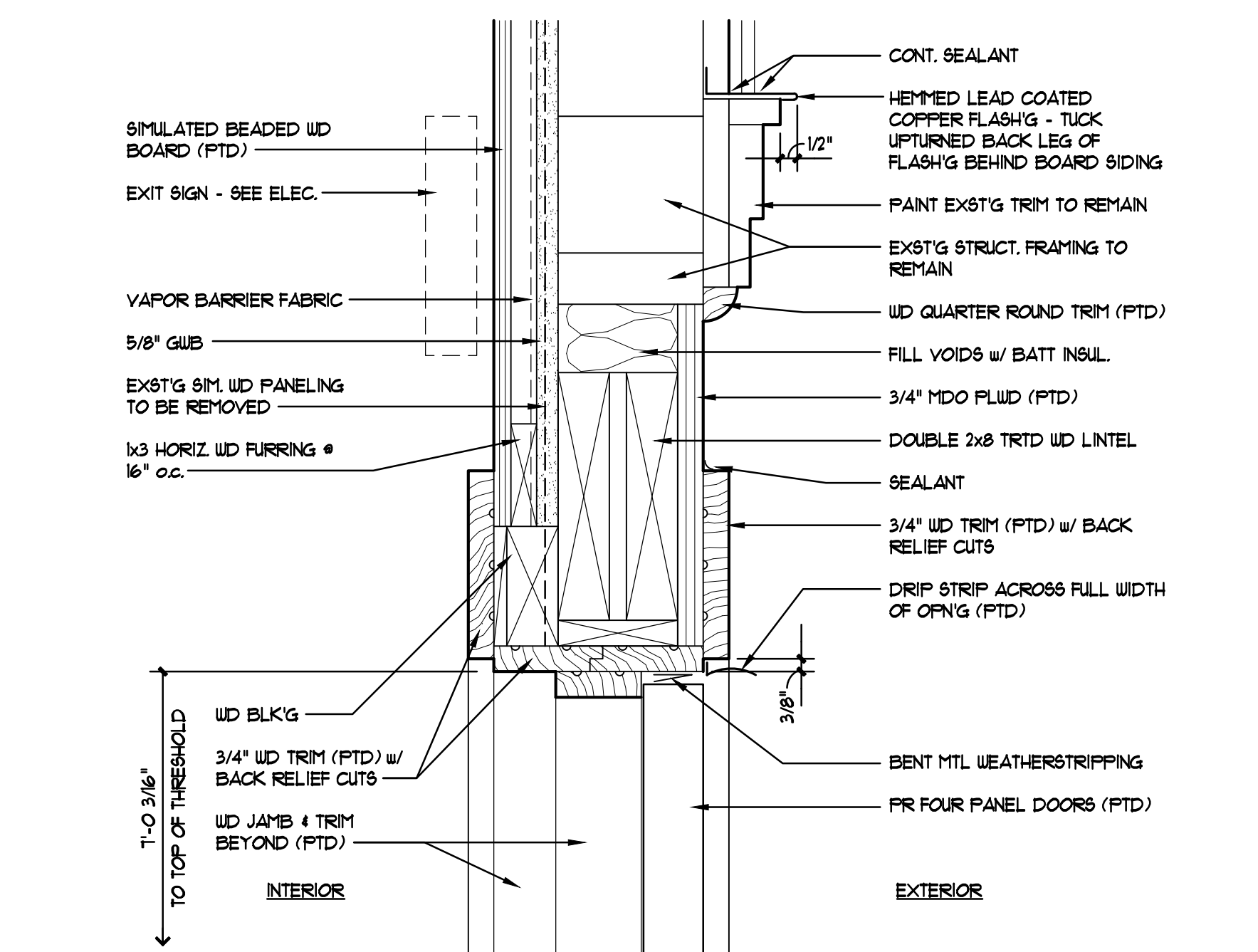
ALLIANCE ARCHITECTURE OF THE TRIAD
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SPRING HOPE RAILROAD DEPOT
 Building Rehabilitation & Platform Addition
 101 South Ash Street
 Spring Hope, North Carolina 27882
 JOB 23081
 DATE February 28, 2025
 DRAWN T. Doan
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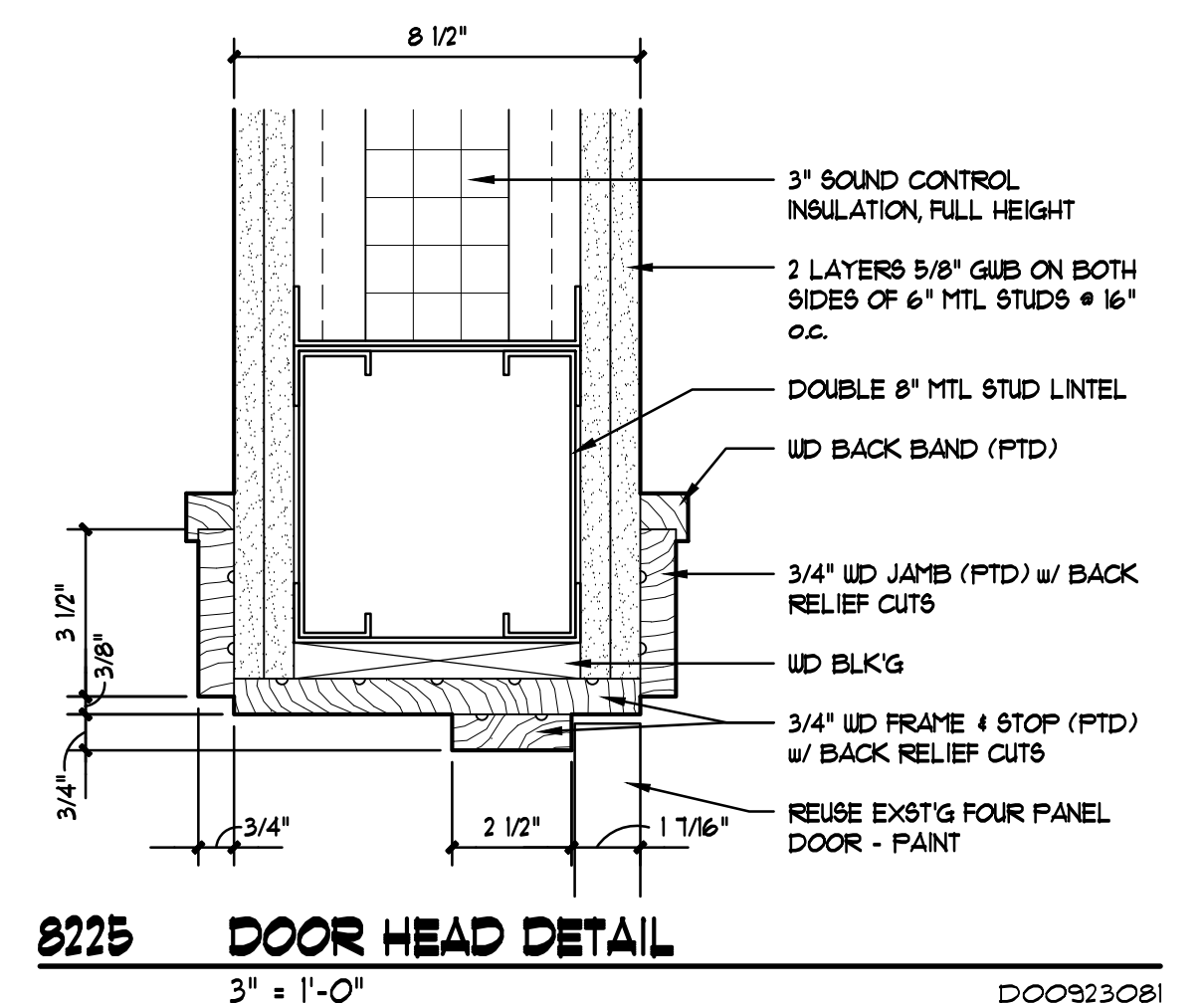
8223 DOOR HEAD DETAIL
3" = 1'-0"
DO0923081



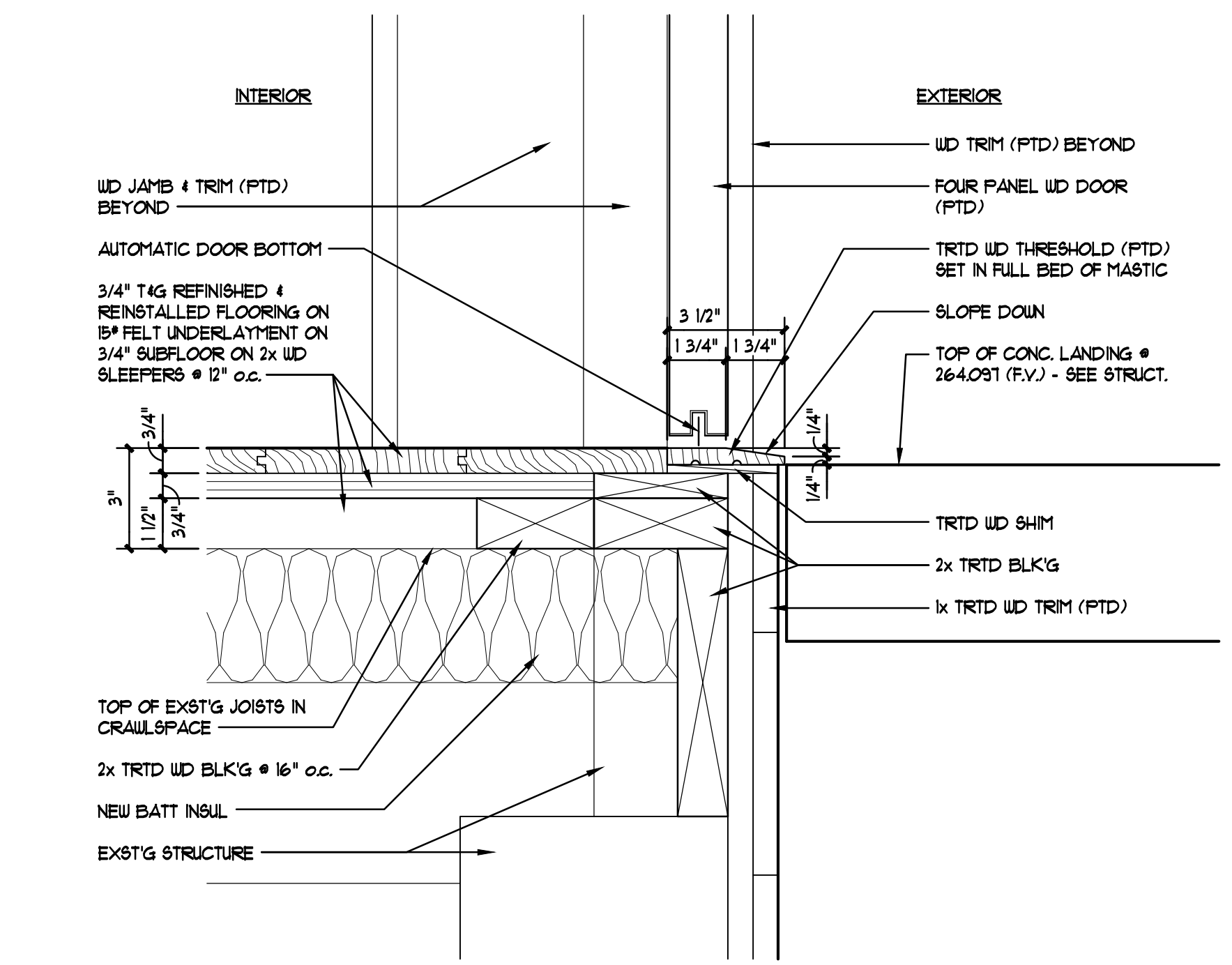
8221 DOOR HEAD DETAIL
3" = 1'-0"
DO0923081



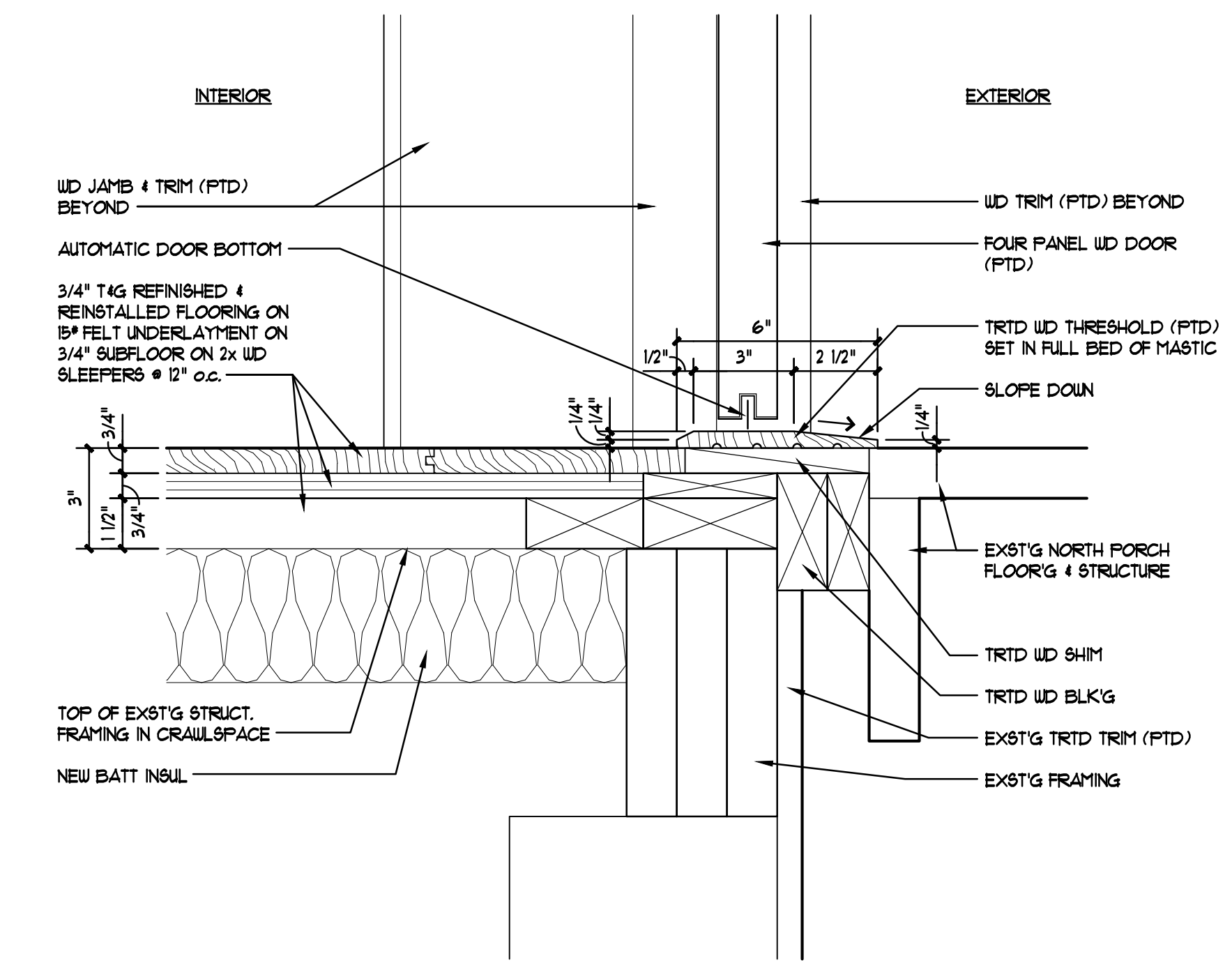
8220 DOOR HEAD DETAIL
3" = 1'-0"
DO0923081



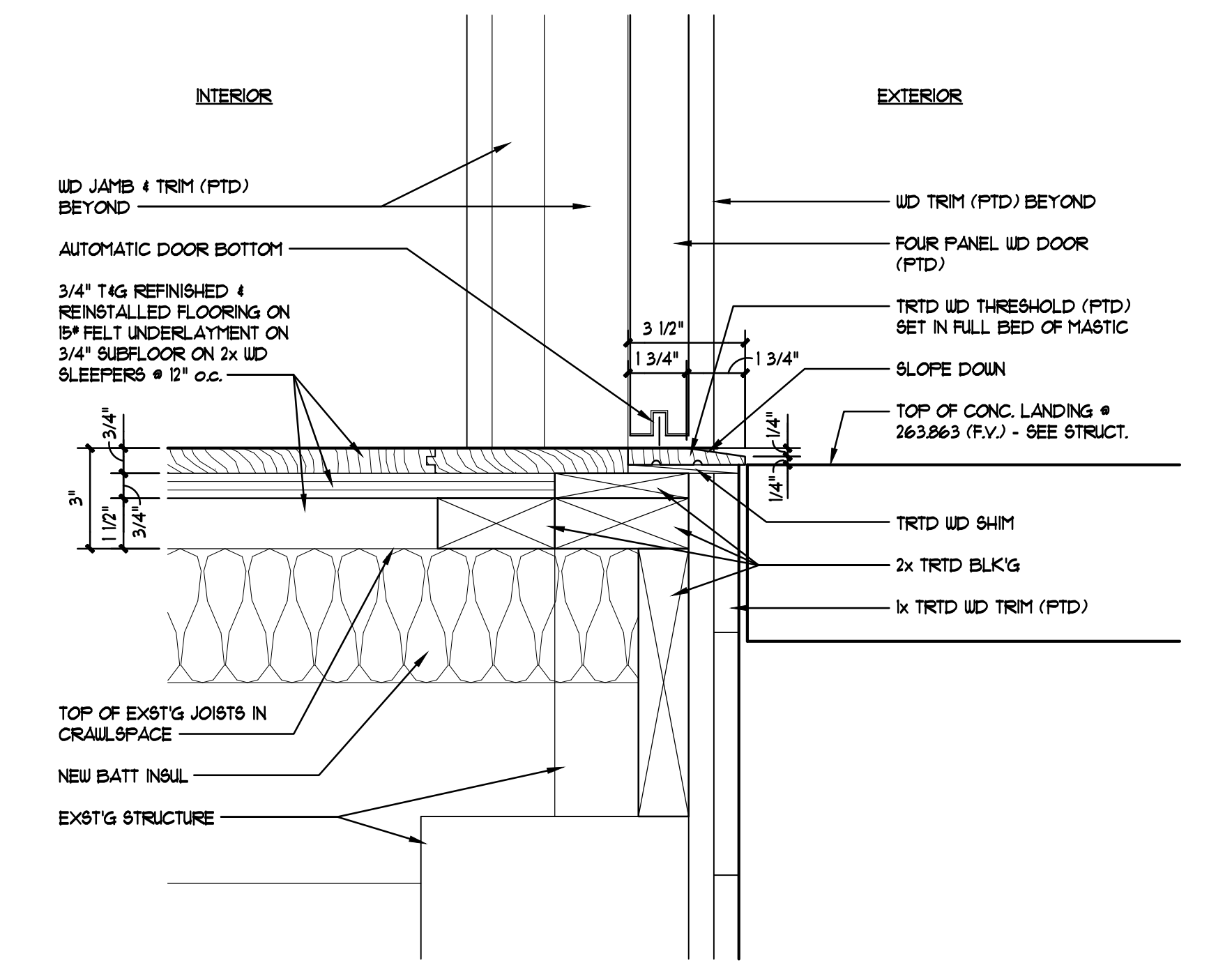
8225 DOOR HEAD DETAIL
3" = 1'-0"
DO0923081



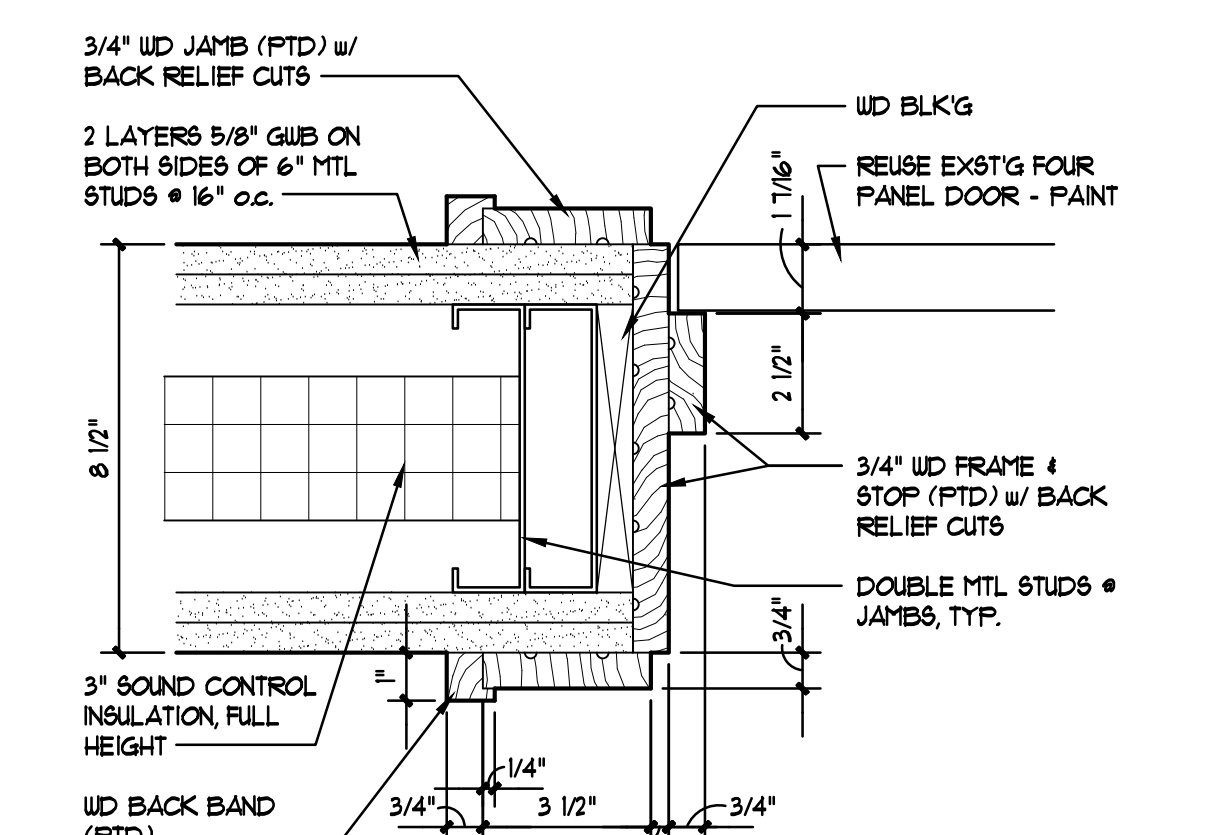
8217 DOOR THRESHOLD DETAIL
3" = 1'-0"
DO0923081



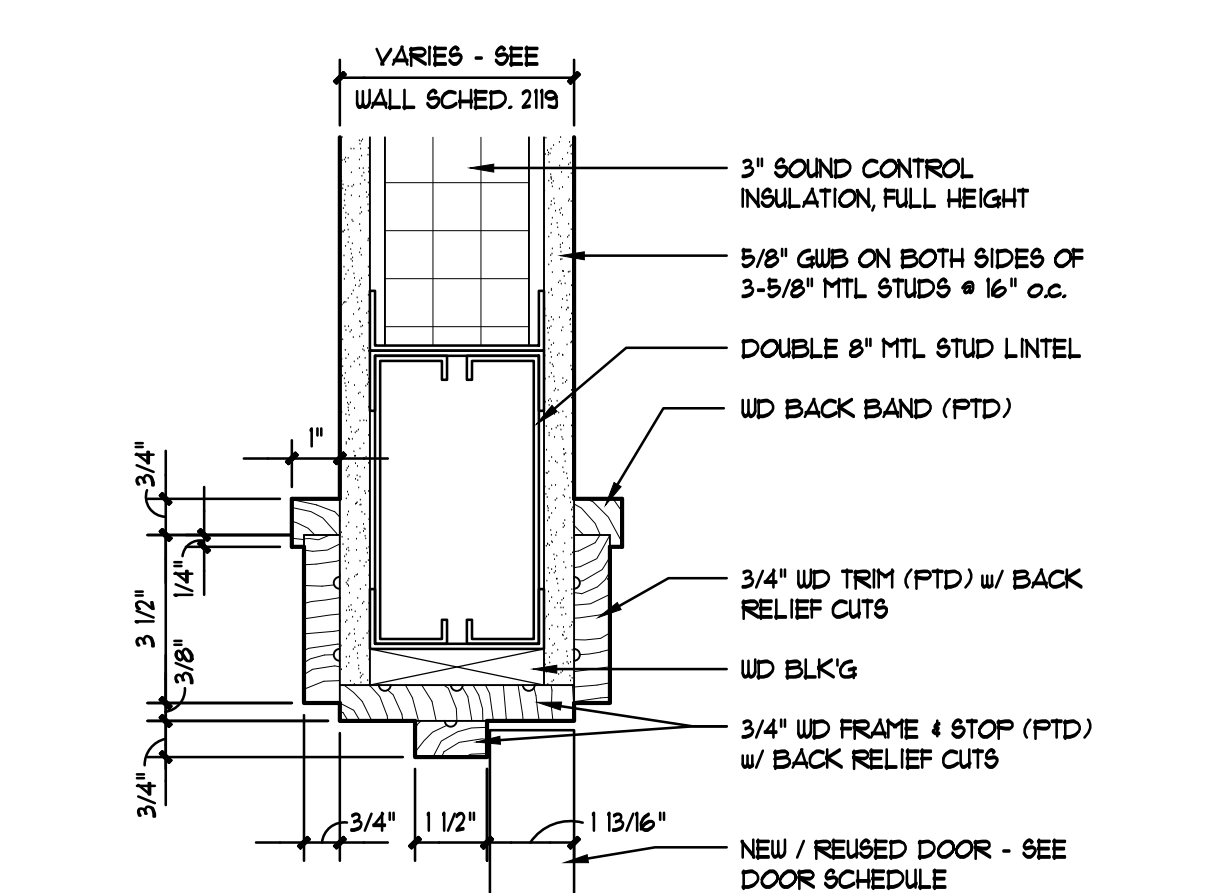
8215 DOOR THRESHOLD DETAIL
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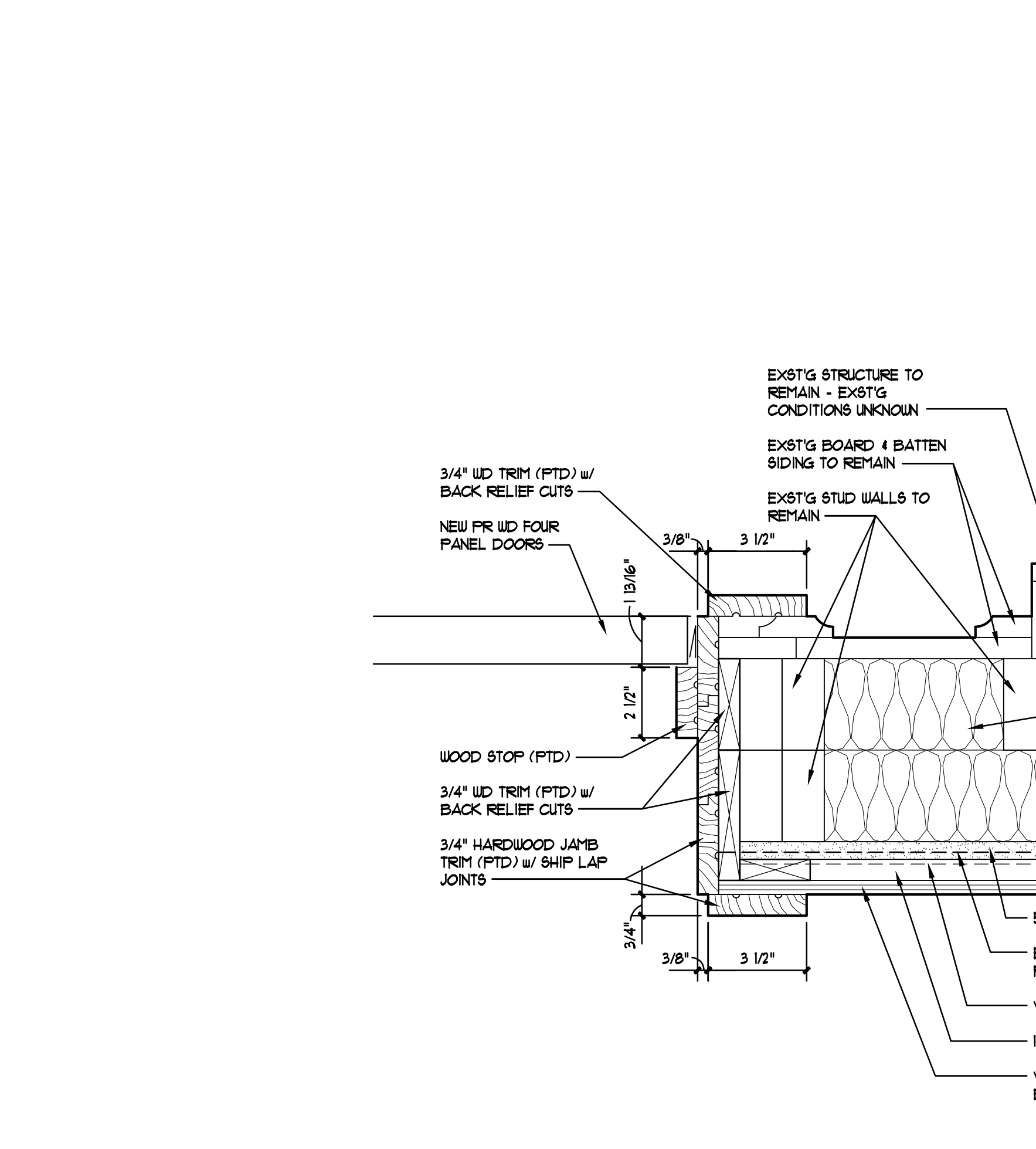
8214 DOOR THRESHOLD DETAIL
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DO0923081



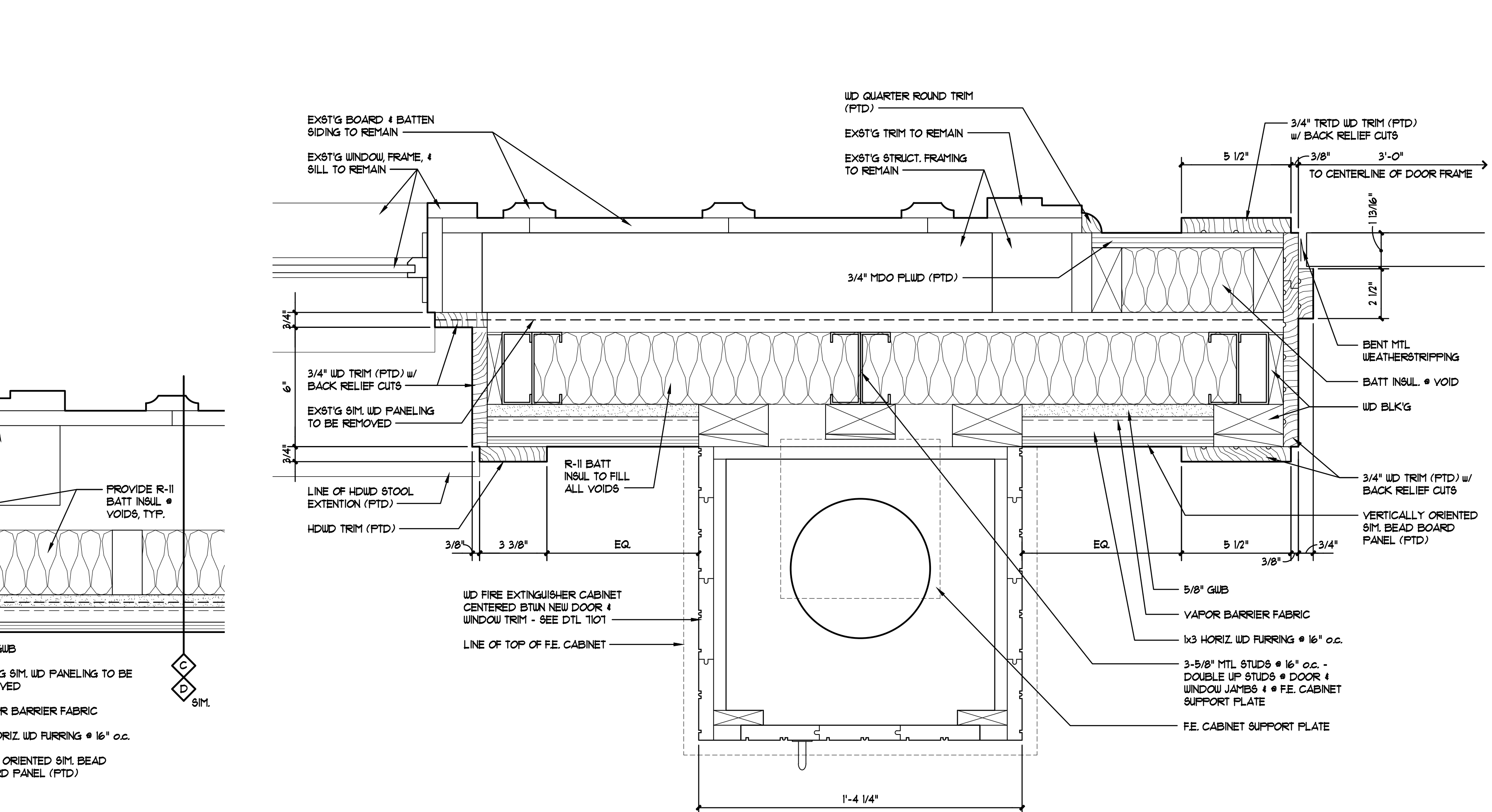
8219 DOOR JAMB DETAIL
3" = 1'-0"
DO0923081



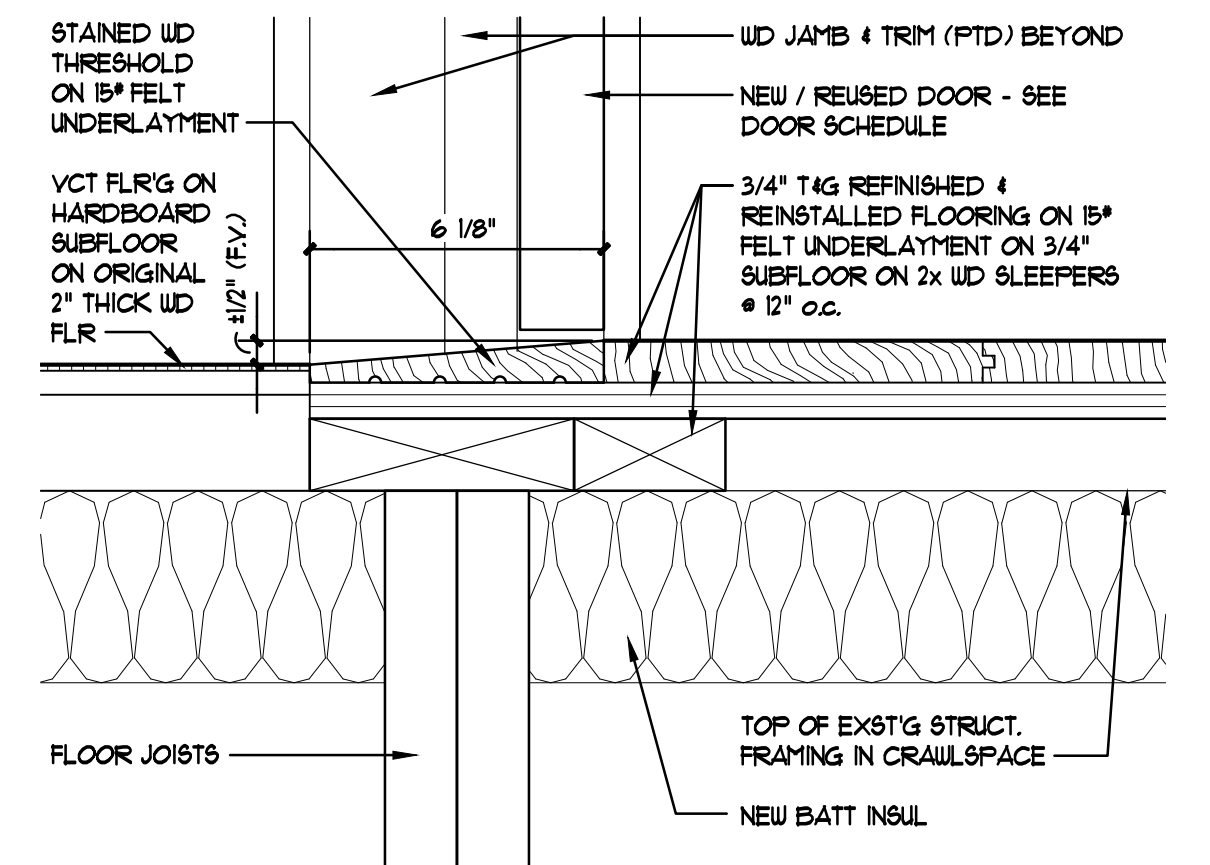
8213 DOOR HEAD DETAIL
3" = 1'-0"
DO0923081



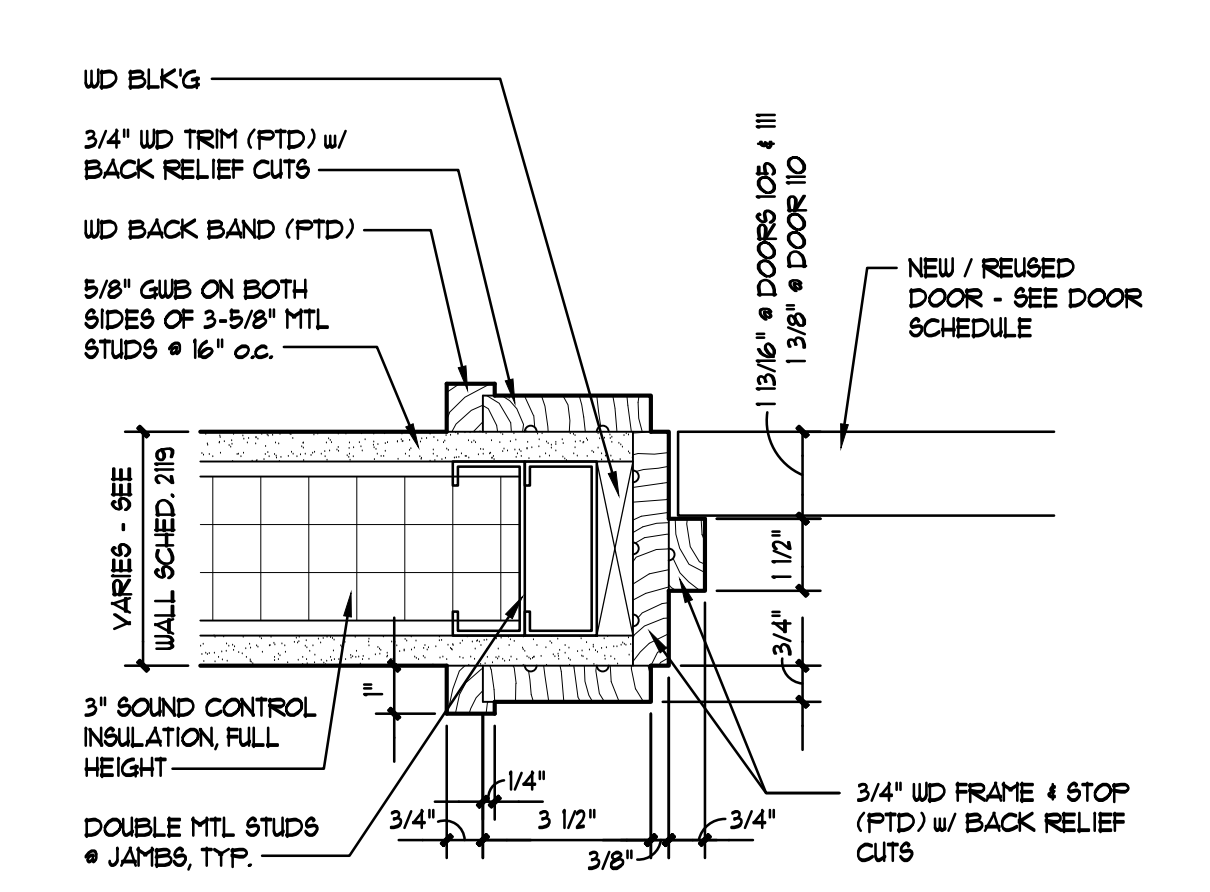
8204 DOOR JAMB DETAIL
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DO0923081



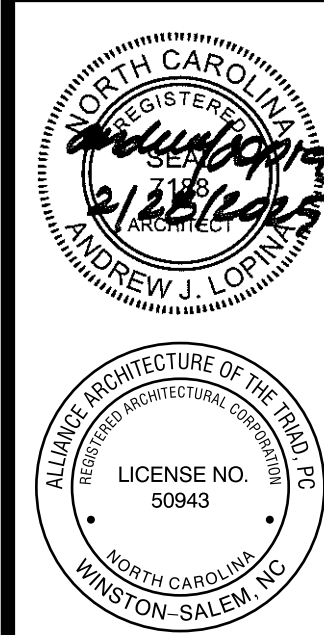
8202 DOOR JAMB DETAIL
3" = 1'-0"
DO0923081



8201 DOOR THRESHOLD DETAIL
3" = 1'-0"
DO0923081



8201 DOOR JAMB DETAIL
3" = 1'-0"
DO0923081

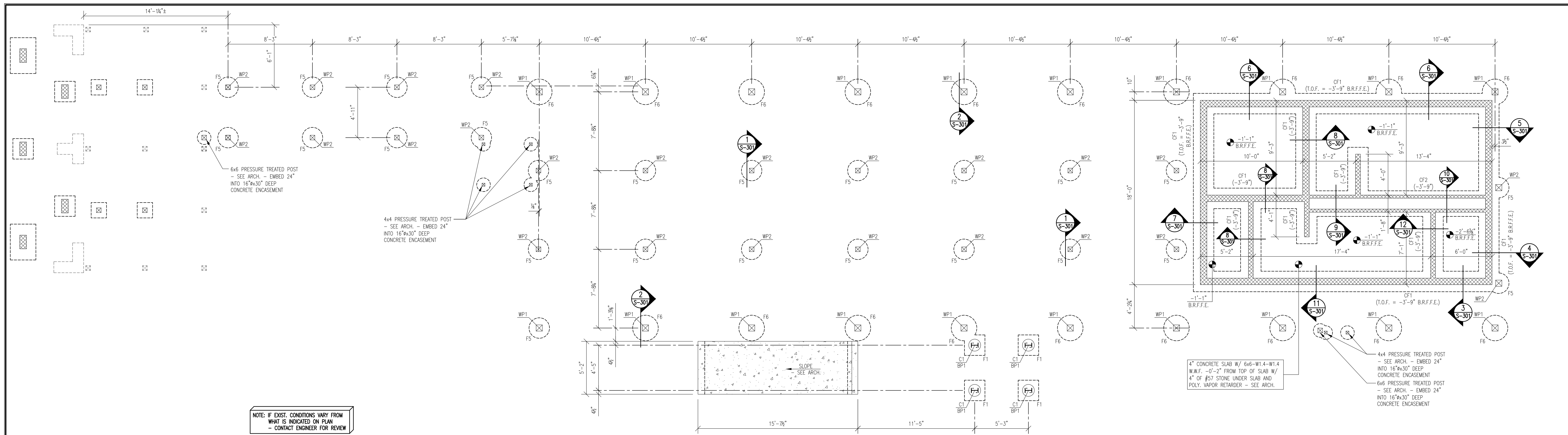


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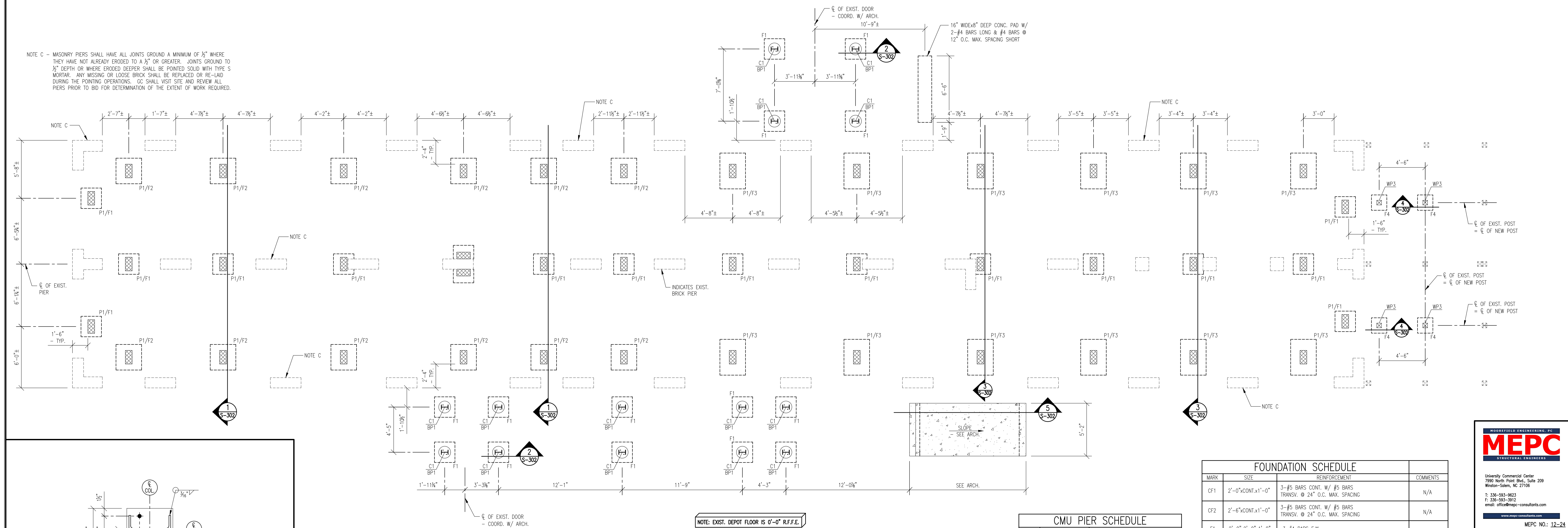
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SPRING HOPE RAILROAD DEPOT
Building Rehabilitation & Platform Addition
101 South Ash Street
Spring Hope, North Carolina 27982

JOB: 22081
DATE: February 26, 2025
DRAWN: T. Doan
SHEET: A82



PLATFORM FOUNDATION PLAN
SCALE: 1/4" = 1'-0"



DEPOT FOUNDATION MODIFICATION PLAN
SCALE: 1/4" = 1'-0"

- GENERAL NOTES - FOUNDATION MODIFICATION PLAN:**
- FOUNDATION DESIGN BASED ON A PRESUMPTIVE SOIL BEARING PRESSURE OF 2000 PSF. GC SHALL HAVE SOIL TESTING FIRM TO VERIFY PRESUMPTIVE BEARING PRESSURE PRIOR TO PLACEMENT OF THE CONCRETE FOOTINGS. ANY AREAS DETERMINED NOT TO PROVIDE THIS STATED SOIL BEARING PRESSURE SHALL BE BROUGHT TO THE ENGINEERS ATTENTION.
 - GC SHOULD AVOID LEAVING OPEN TRENCH EXCAVATIONS FOR THE FOOTINGS FOR LONG PERIODS WHEN INCLEMENT WEATHER IS ANTICIPATED. IN GENERAL ALL EXCAVATIONS MADE SHOULD BE POURED ON THE DAY OF THE EXCAVATION IF INCLEMENT WEATHER IS EXPECTED.
 - CONTRACTOR SHALL COORDINATE FOR LOCAL INSPECTING AUTHORITY TO REVIEW AND APPROVE ALL FOOTING TRENCHES PRIOR TO THE PLACEMENT OF ANY FOOTING CONCRETE. IF FOOTINGS FAIL INSPECTION CONTRACTOR SHALL CONTACT THE ENGINEER FOR RECOMMENDATIONS.

COLUMN SCHEDULE

MARK	DESCRIPTION	T.O.F.	BOTTOM OF BP.
C1	W8x18	FIELD DETERMINE	+0'-1 1/2" FROM T.O.F.

Fy = 36ksi (CHANNEL)
Fy = 50ksi (W SHAPE)

CMU PIER SCHEDULE

MARK	DESCRIPTION	REINFORCEMENT
P1	8"x16" CMU PIER	1-#4 VERT. BAR EA. CELL - GROUT FILL SOLID - HOOK B ⁷ INTO FTG.

WOOD POST SCHEDULE

MARK	DESCRIPTION	T.O.F.
WP1	8x8 PRESSURE TREATED POST	FIELD DETERMINE
WP2	6x6 PRESSURE TREATED POST	FIELD DETERMINE
WP3	6x6 PRESSURE TREATED POST	SEE 4/S-302

Fc = 3500psi

FOUNDATION SCHEDULE

MARK	SIZE	REINFORCEMENT	COMMENTS
CF1	2'-0"xCONC1x1'-0"	3-#5 BARS CONT. W/ #5 BARS TRANSV. @ 24" O.C. MAX. SPACING	N/A
CF2	2'-6"xCONC1x1'-0"	3-#5 BARS CONT. W/ #5 BARS TRANSV. @ 24" O.C. MAX. SPACING	N/A
F1	2'-0"x2'-0"x1'-0"	3-#4 BARS E.W.	N/A
F2	2'-6"x2'-6"x1'-0"	4-#4 BARS E.W.	N/A
F3	3'-6"x2'-6"x1'-0"	4-#4 LONG BARS 5-#4 SHORT BARS	N/A
F4	1'-6"x1'-6"x1'-0"	4-#4 BARS E.W.	N/A
F5	24"x3'-0" DEEP	1-#4 BAR 4" & 6" FROM BOT. OF POST - HOLD BOT. OF POST 6" UP FROM BOT. OF CONC. ENCASUREMENT	SEE 1/S-301
F6	30"x5'-0" DEEP	1-#4 BAR 4" & 6" FROM BOT. OF POST - HOLD BOT. OF POST 6" UP FROM BOT. OF CONC. ENCASUREMENT	SEE 2/S-301

SECTION NO. BP1 - BASE PLATE DETAIL

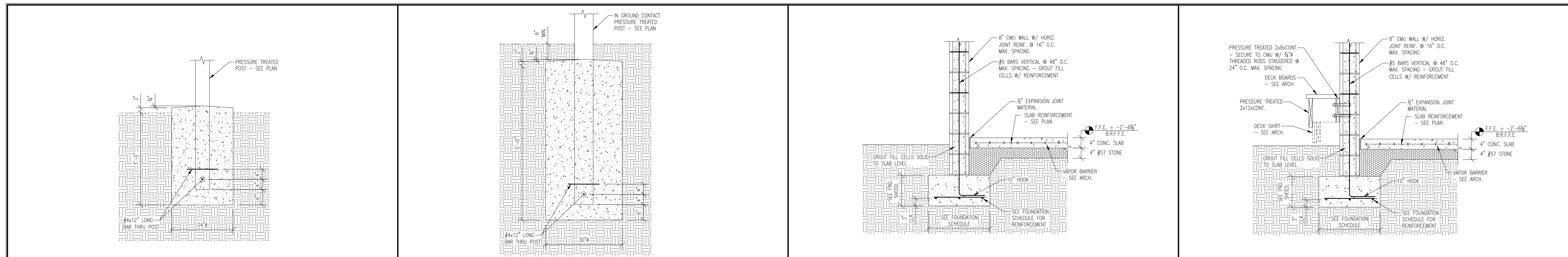
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SECTION NO. TYPICAL

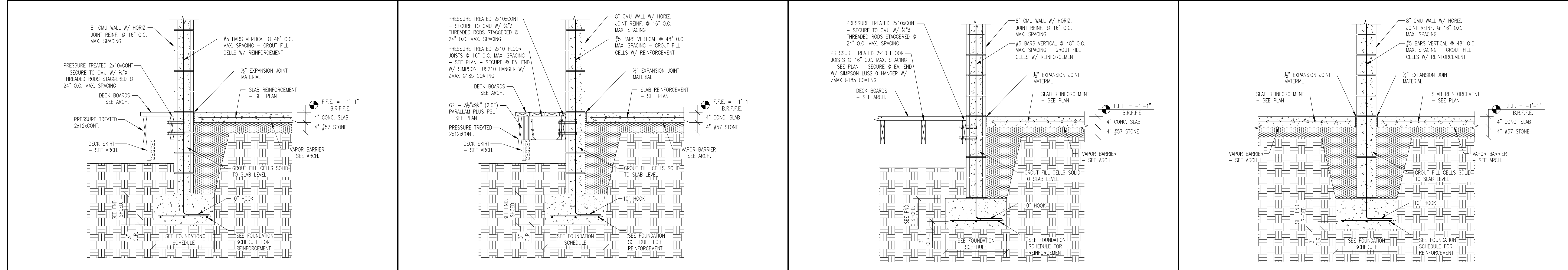


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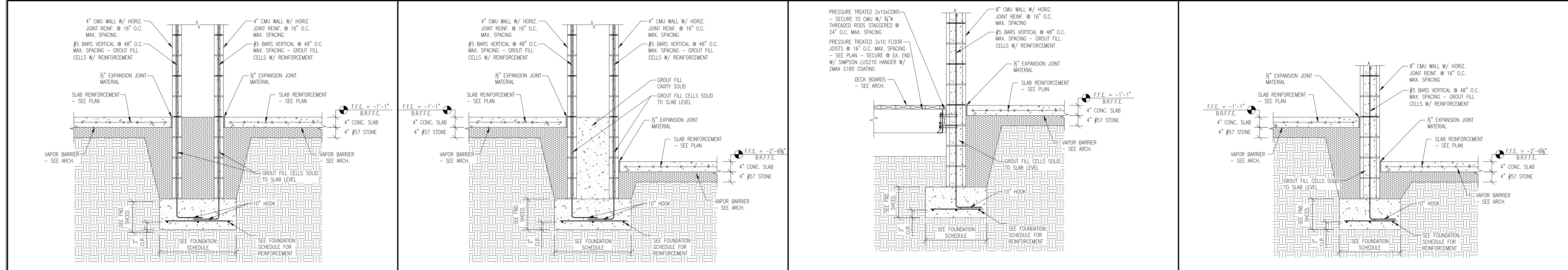
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FIRM REGISTRATION NO.: C-1323



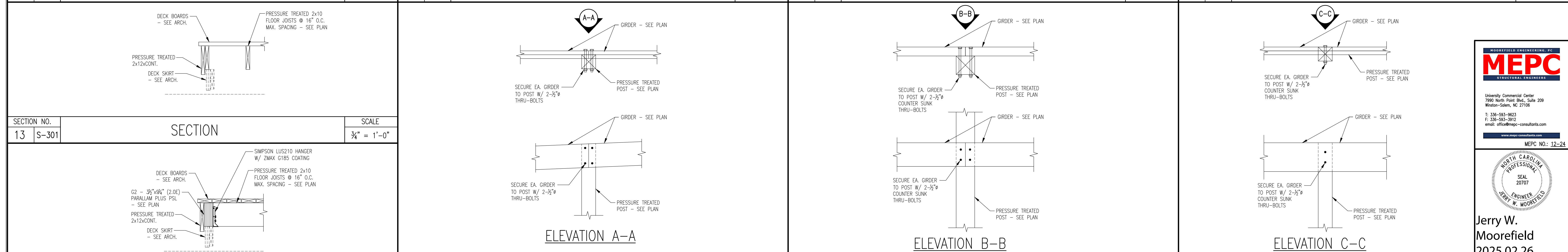
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1 S-301		3/4" = 1'-0"	2 S-301		3/4" = 1'-0"	3 S-301		3/4" = 1'-0"	4 S-301		3/4" = 1'-0"



SECTION NO.	SECTION	SCALE	SECTION NO.	SECTION	SCALE	SECTION NO.	SECTION	SCALE	SECTION NO.	SECTION	SCALE
5 S-301		3/4" = 1'-0"	6 S-301		3/4" = 1'-0"	7 S-301		3/4" = 1'-0"	8 S-301		3/4" = 1'-0"



SECTION NO.	SECTION	SCALE	SECTION NO.	SECTION	SCALE	SECTION NO.	SECTION	SCALE	SECTION NO.	SECTION	SCALE
9 S-301		3/4" = 1'-0"	10 S-301		3/4" = 1'-0"	11 S-301		3/4" = 1'-0"	12 S-301		3/4" = 1'-0"

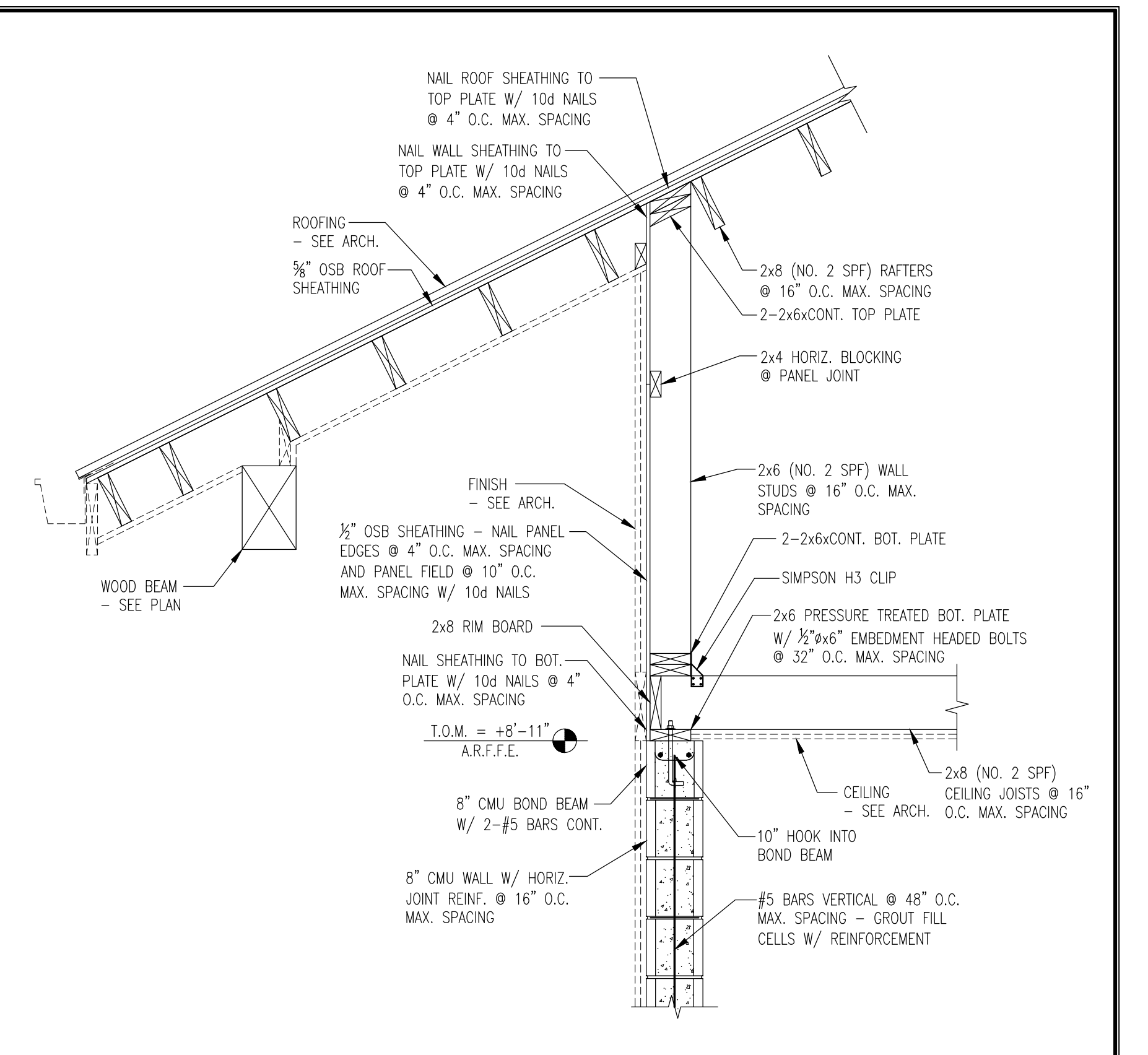
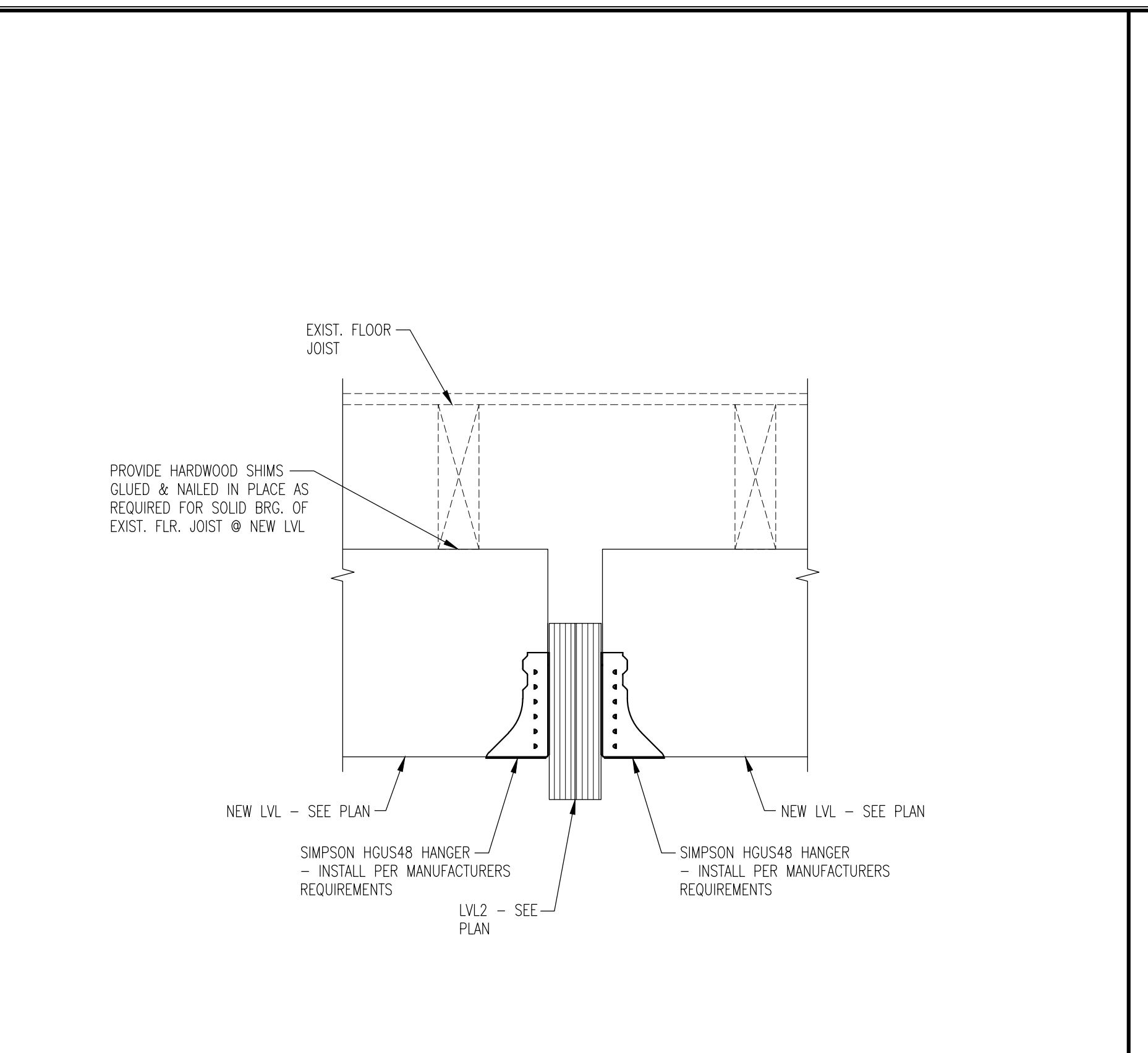
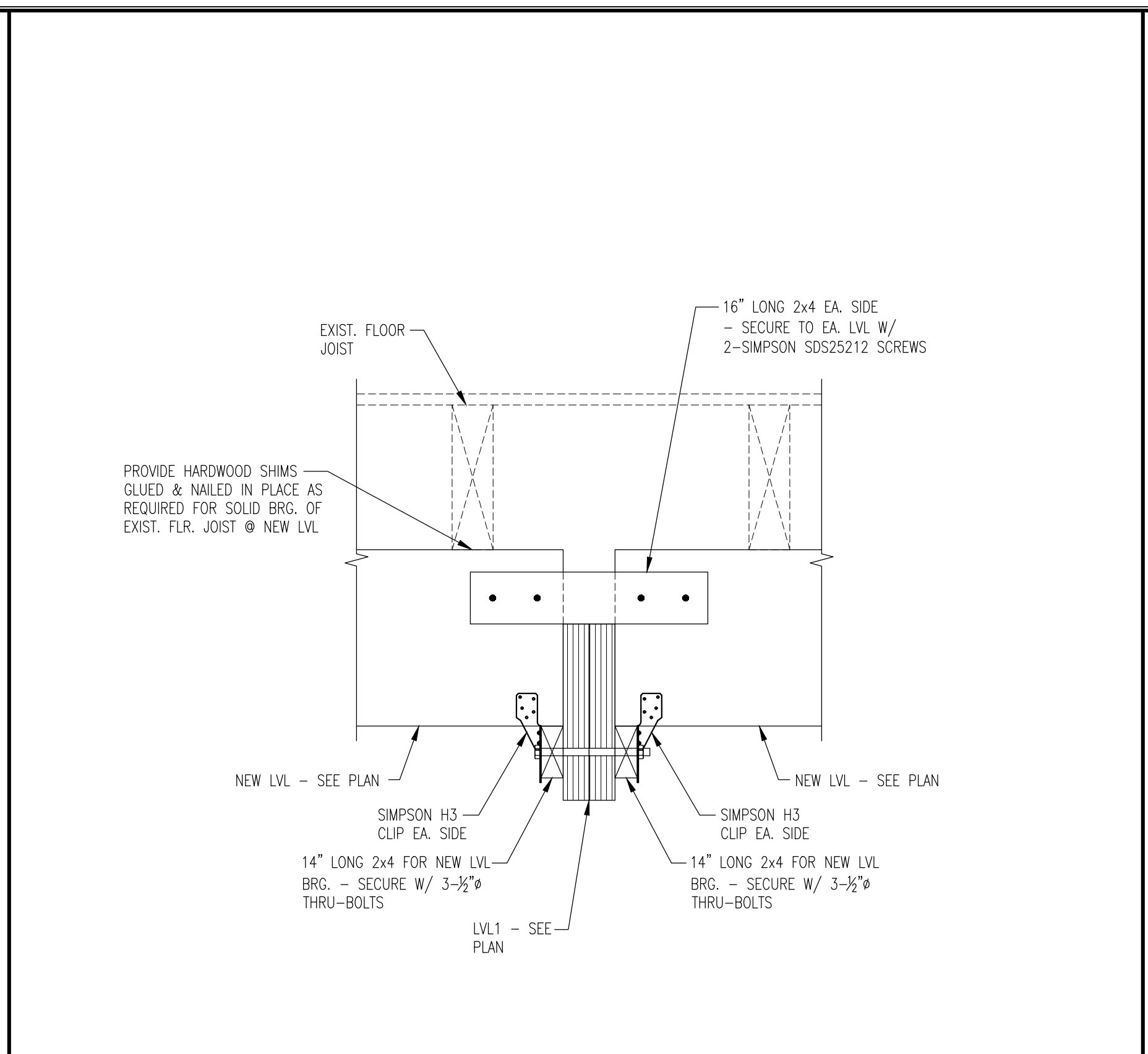
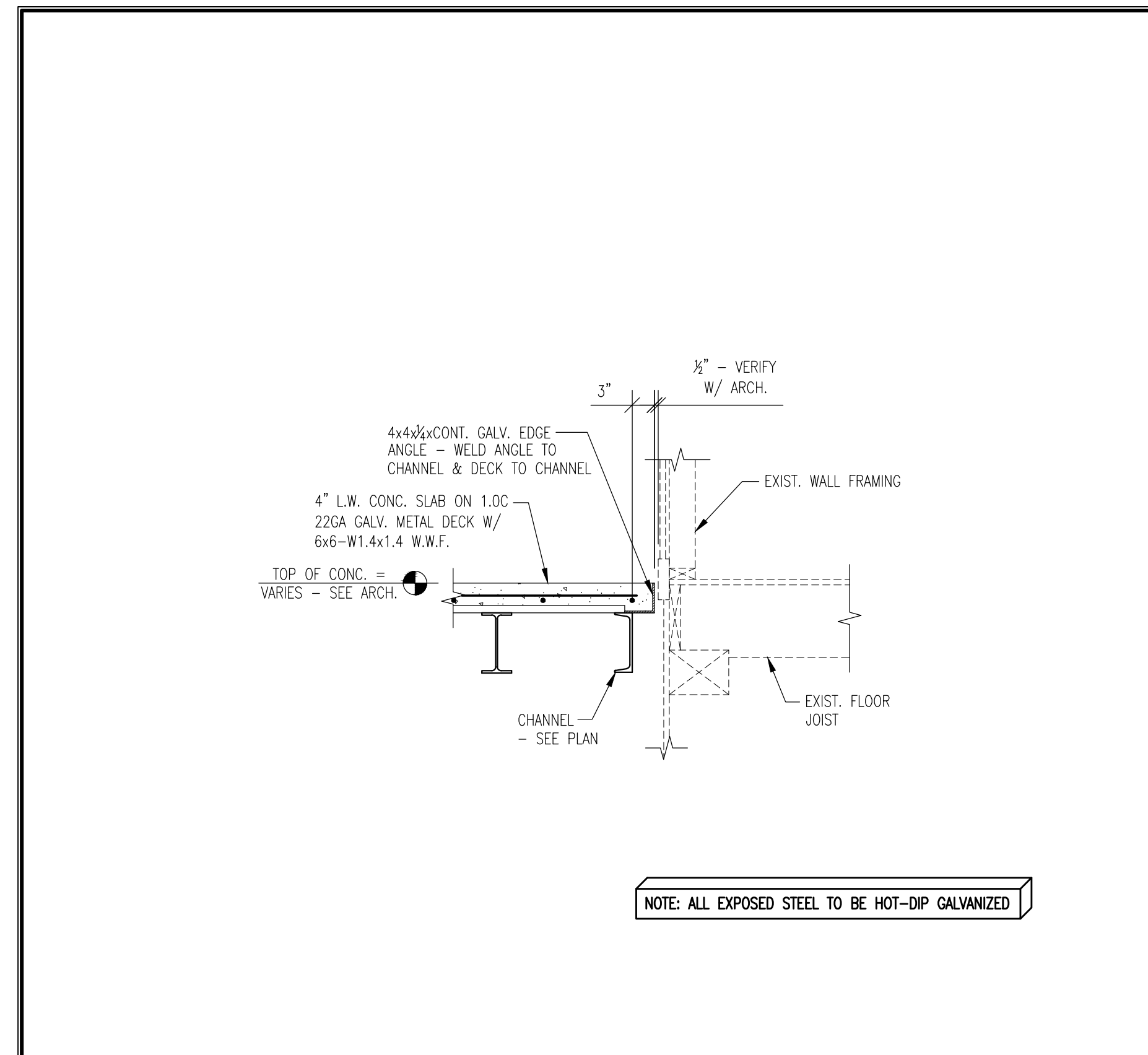


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13 S-301		3/4" = 1'-0"	14 S-301		3/4" = 1'-0"	15 S-301		3/4" = 1'-0"	16 S-301		3/4" = 1'-0"
SECTION NO.	SECTION	SCALE	SECTION NO.	SECTION	SCALE	SECTION NO.	SECTION	SCALE	SECTION NO.	SECTION	SCALE
17 S-301		3/4" = 1'-0"	18 S-301		3/4" = 1'-0"	19 S-301		3/4" = 1'-0"	20 S-301		3/4" = 1'-0"

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NORTH CAROLINA PROFESSIONAL ENGINEERS
 SEAL 2070
 JERRY W. MOORE
 ENGINEER
 FIRM REGISTRATION NO.: C-1323

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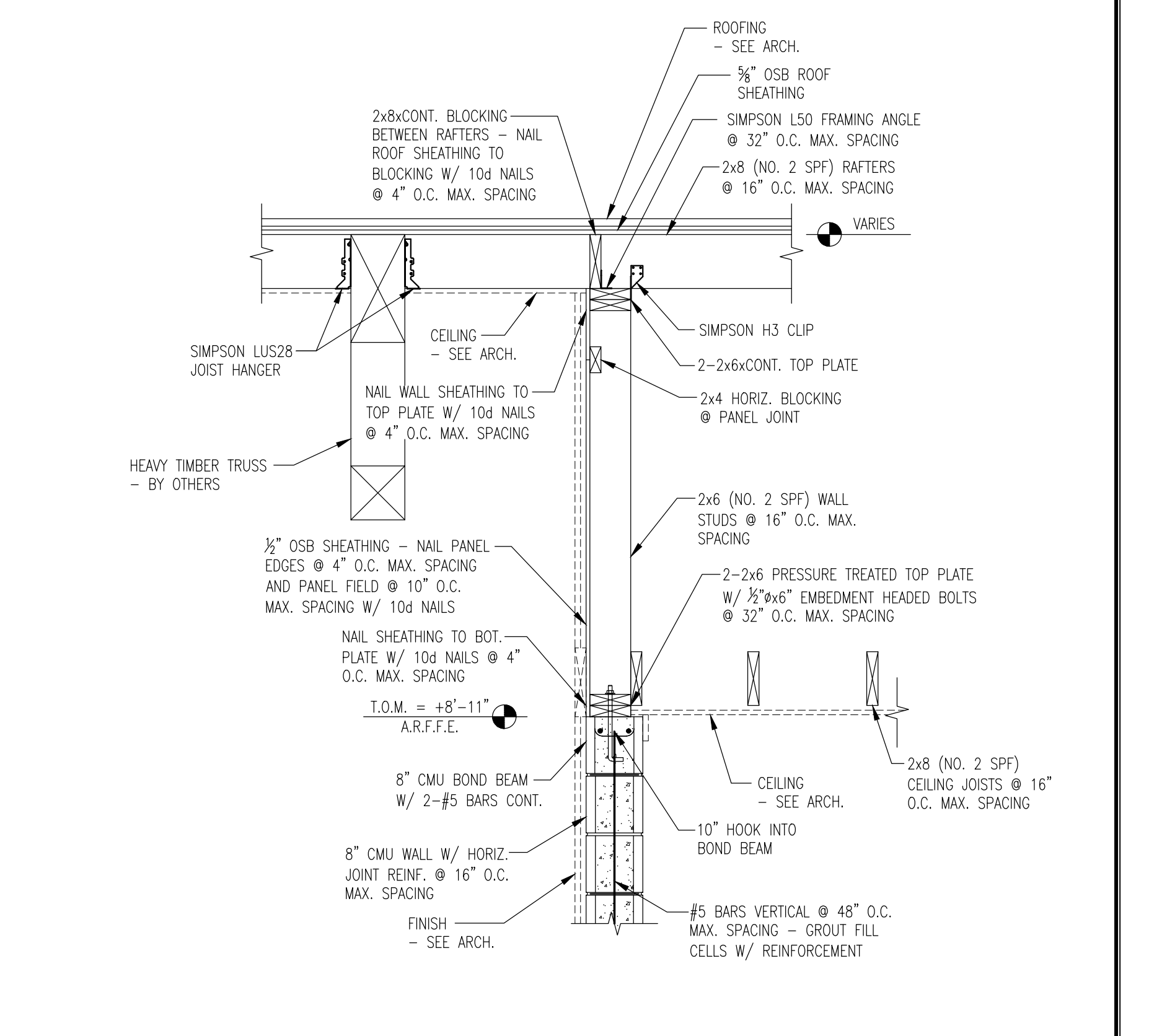
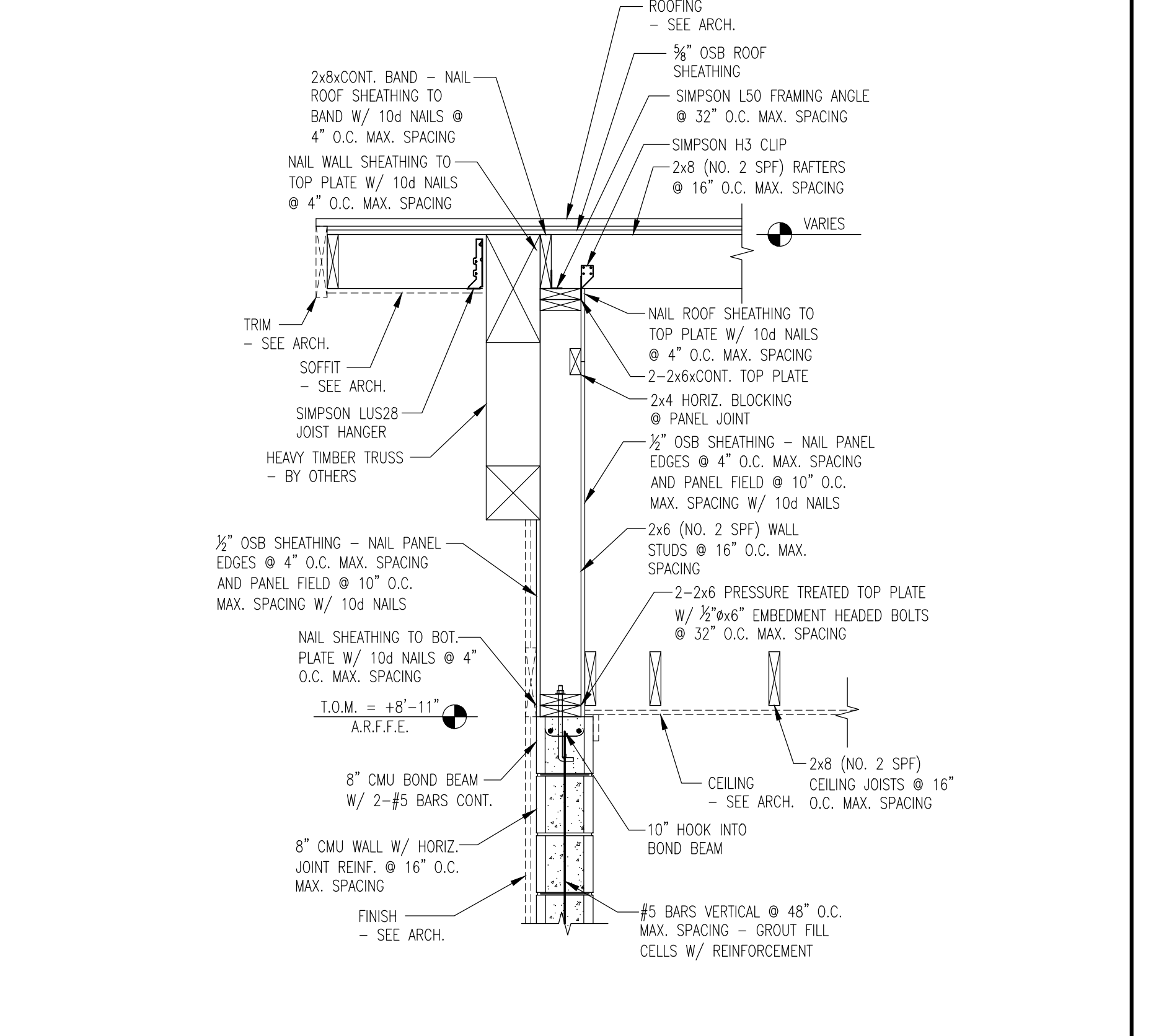
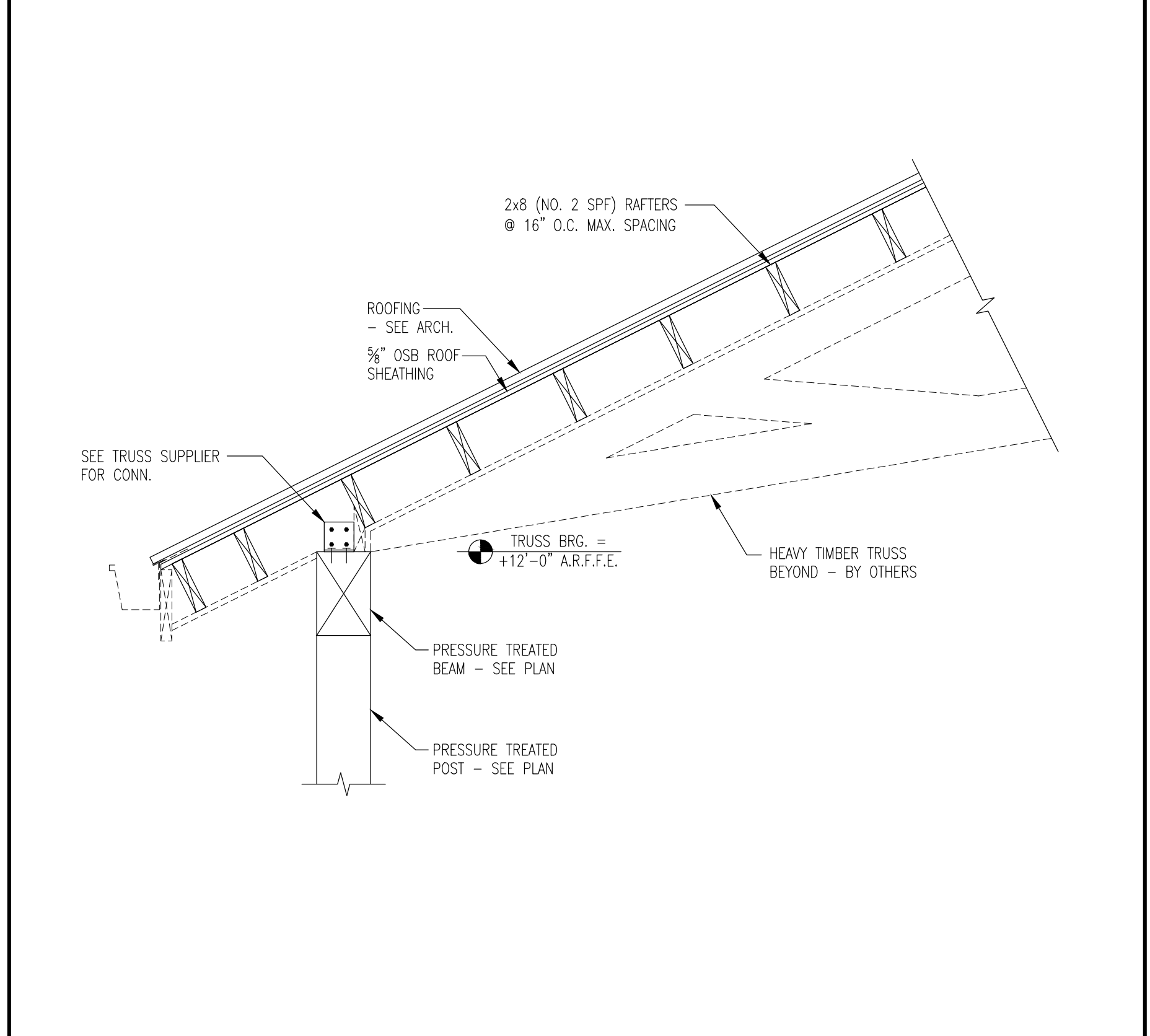
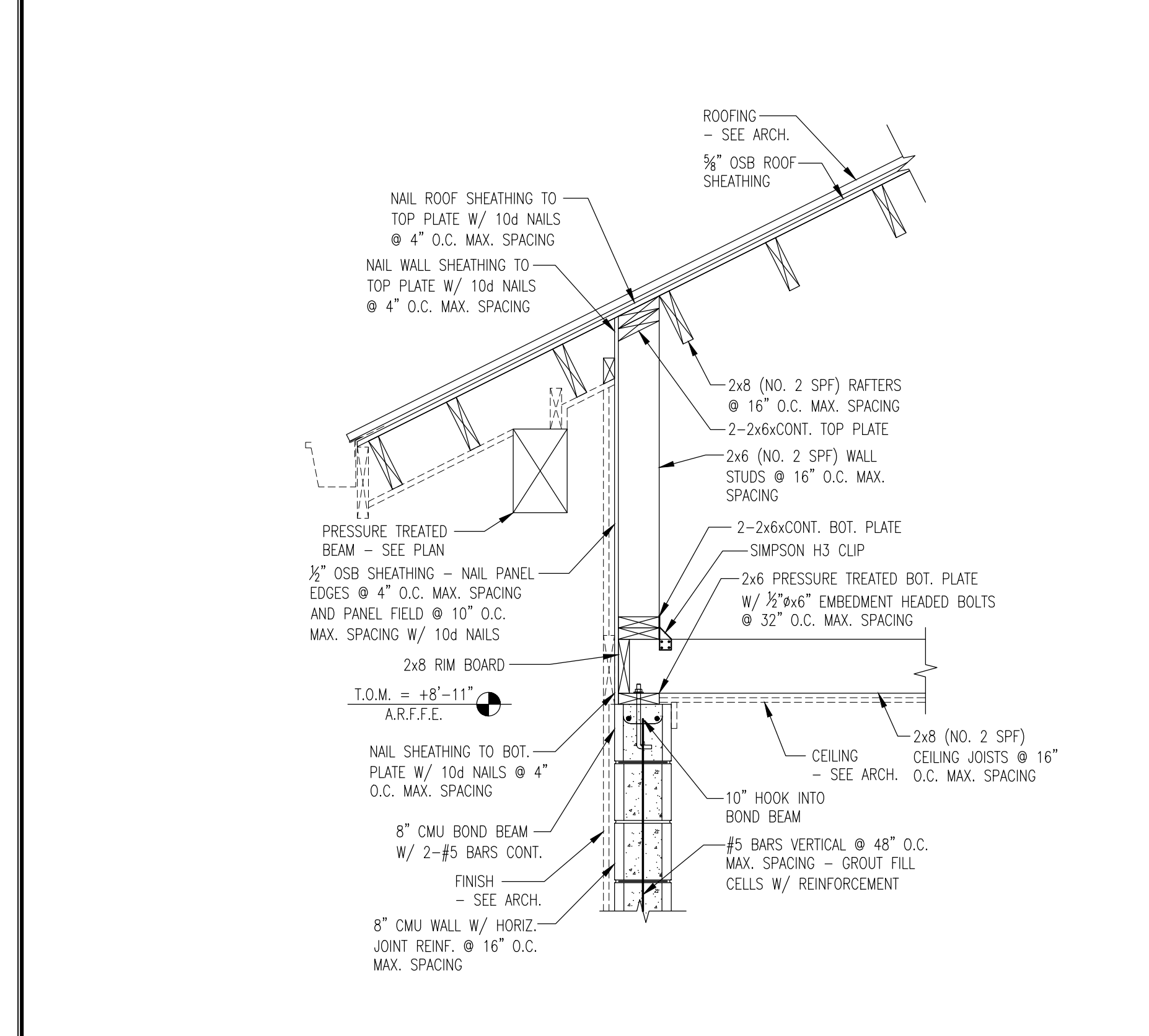


SECTION NO. 1 S-303 SECTION SCALE 3/4" = 1'-0"

SECTION NO. 2 S-303 SECTION SCALE 3/4" = 1'-0"

SECTION NO. 3 S-303 SECTION SCALE 1/2" = 1'-0"

SECTION NO. 4 S-303 SECTION SCALE 3/4" = 1'-0"

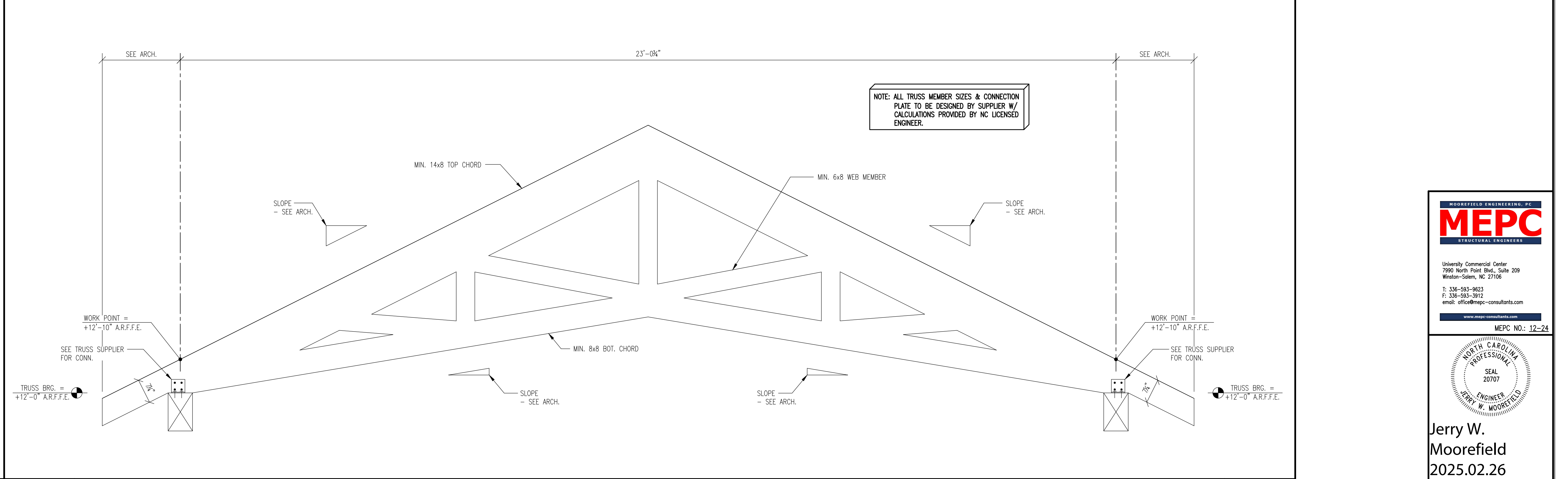
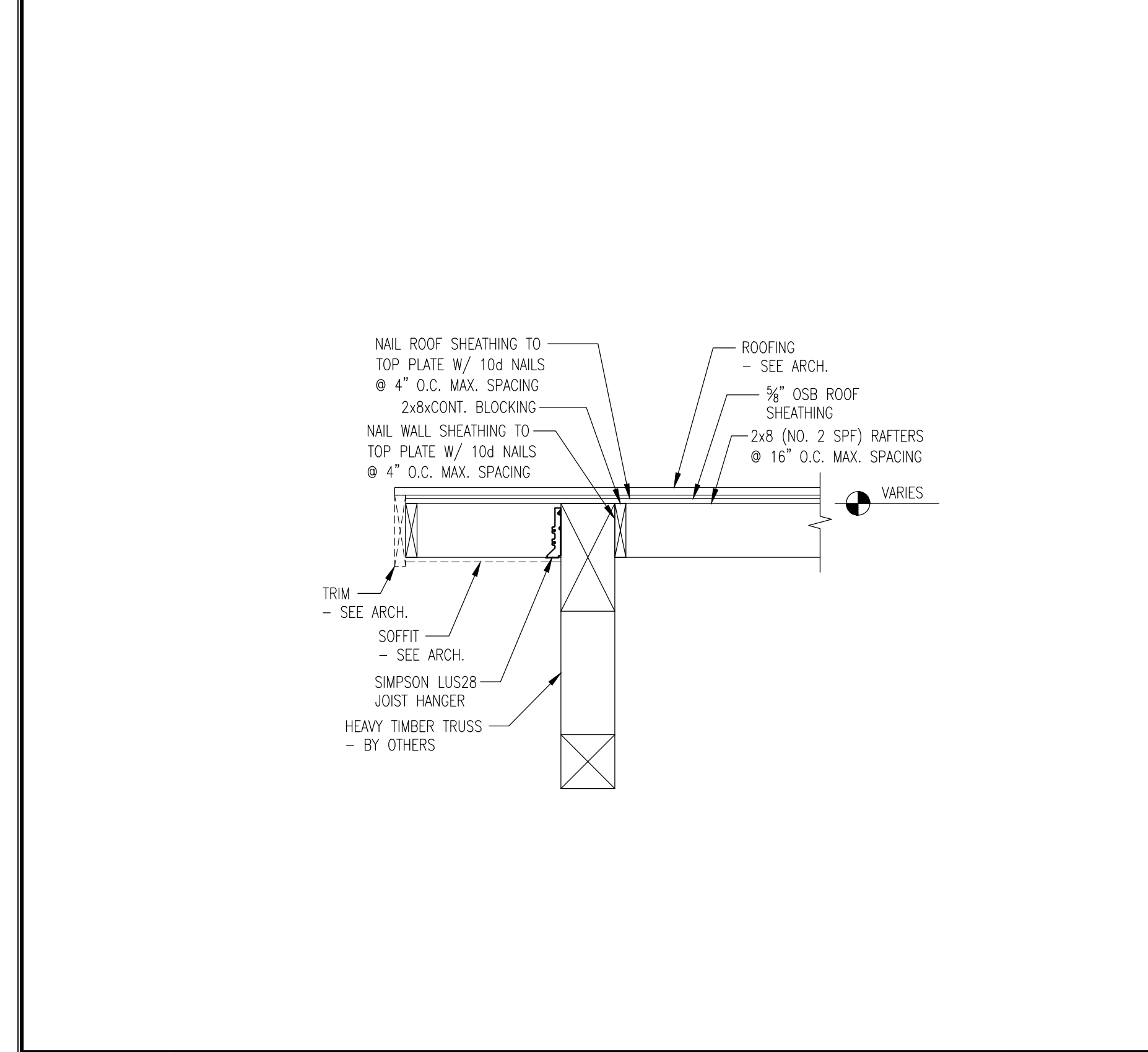


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SECTION NO. 6 S-303 SECTION SCALE 3/4" = 1'-0"

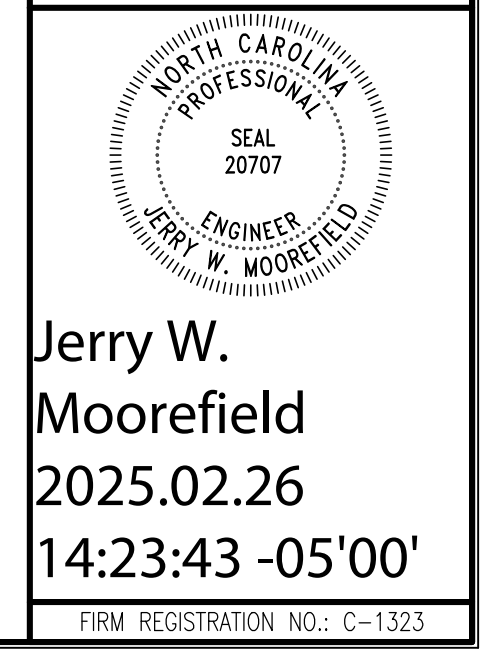
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SECTION NO. 8 S-303 SECTION SCALE 3/4" = 1'-0"

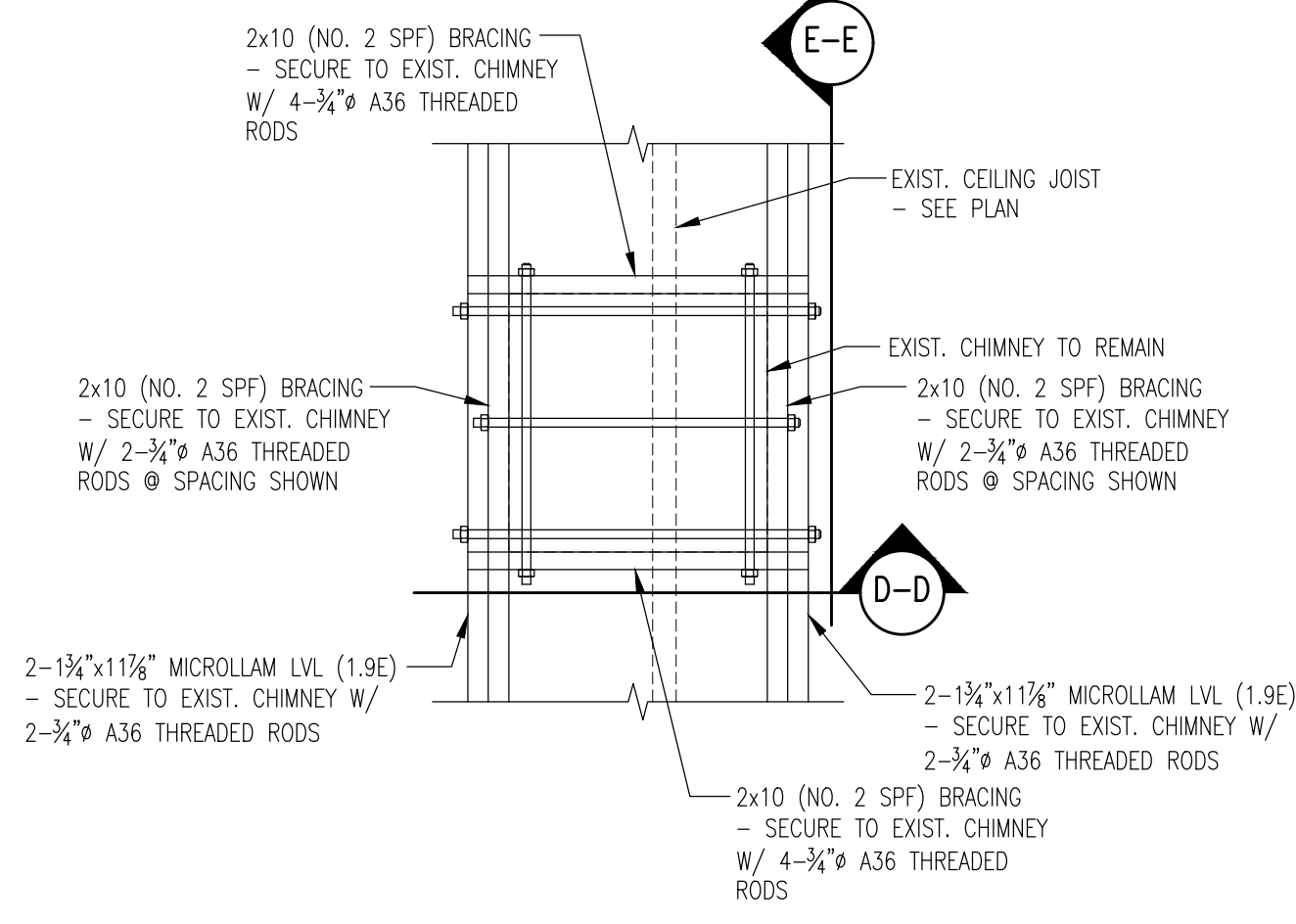


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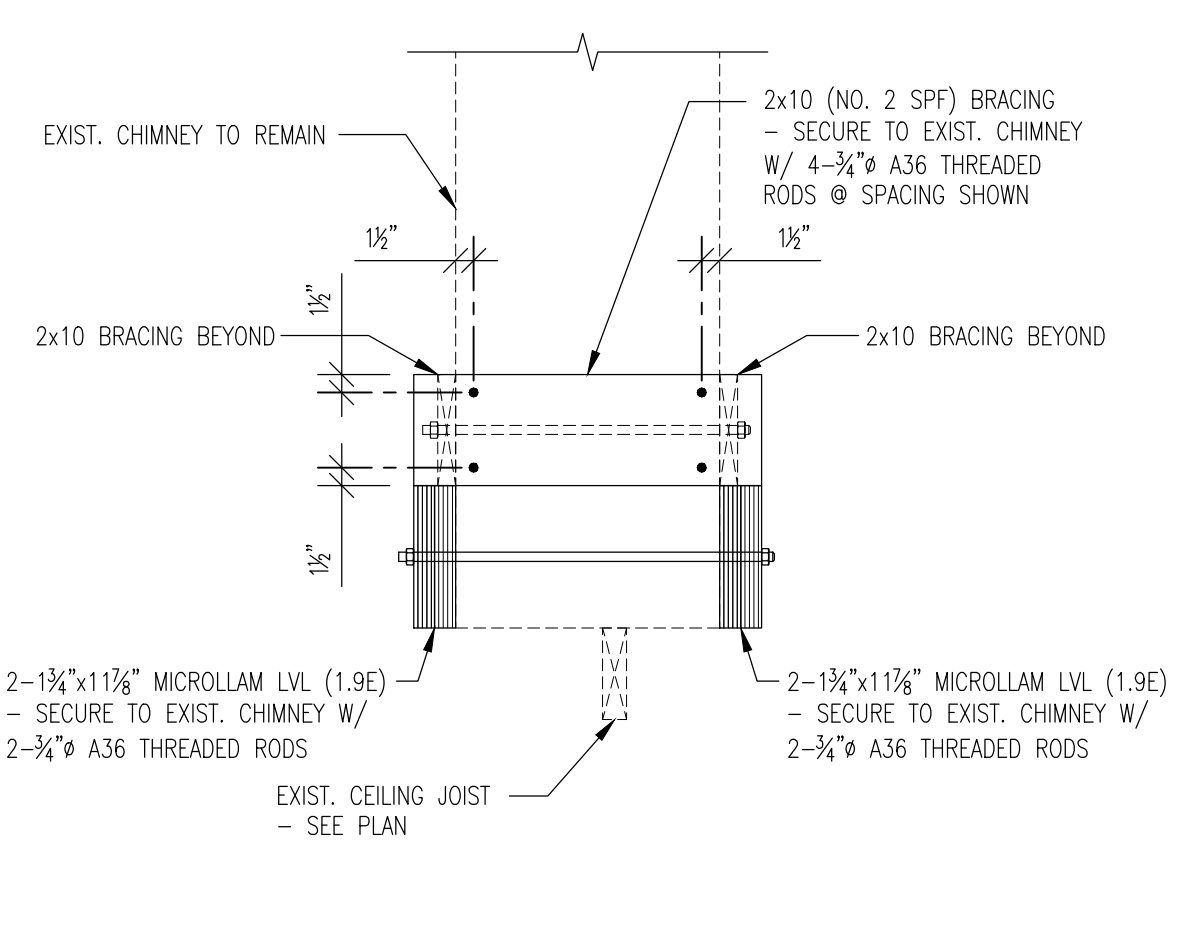
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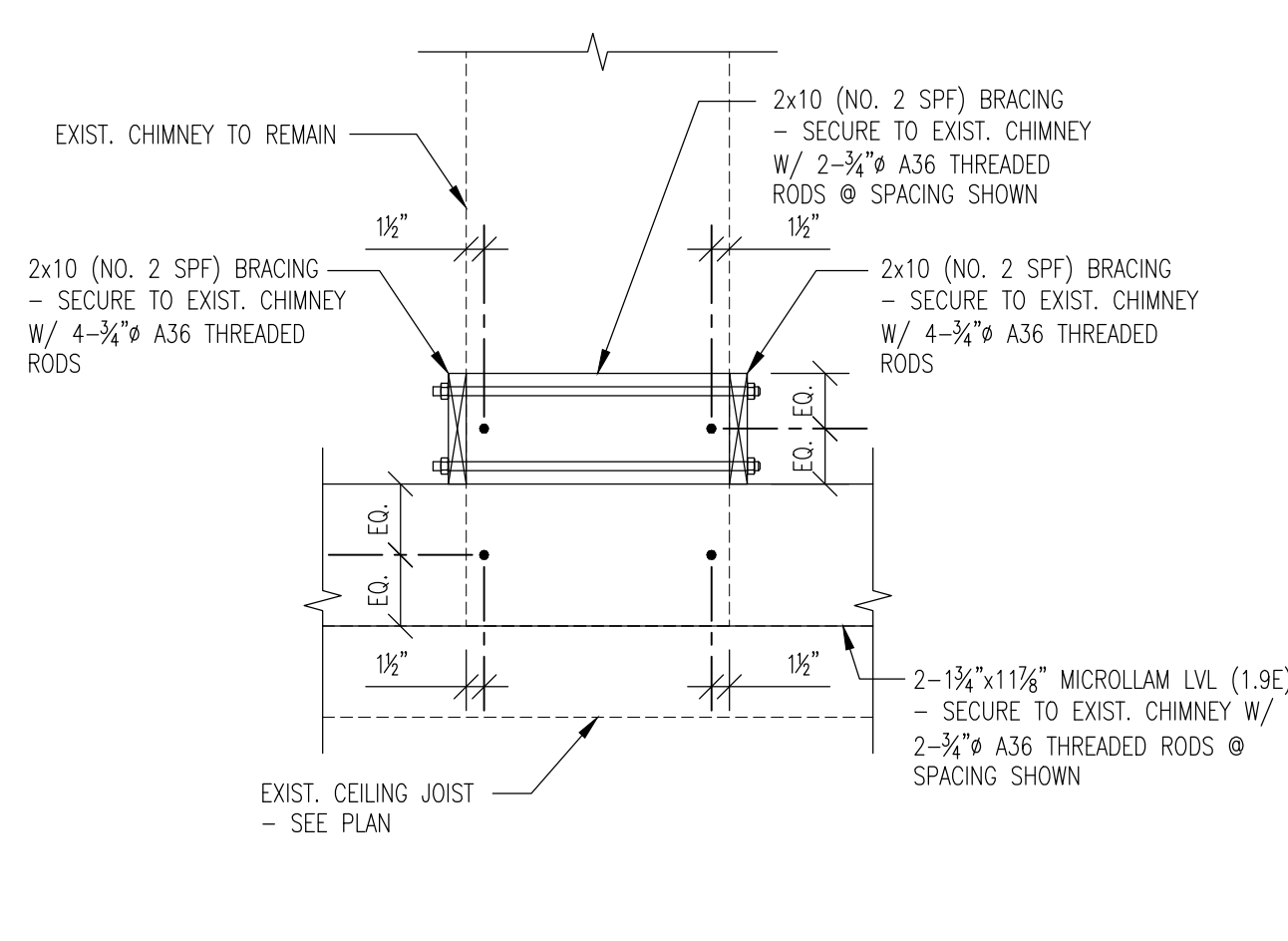
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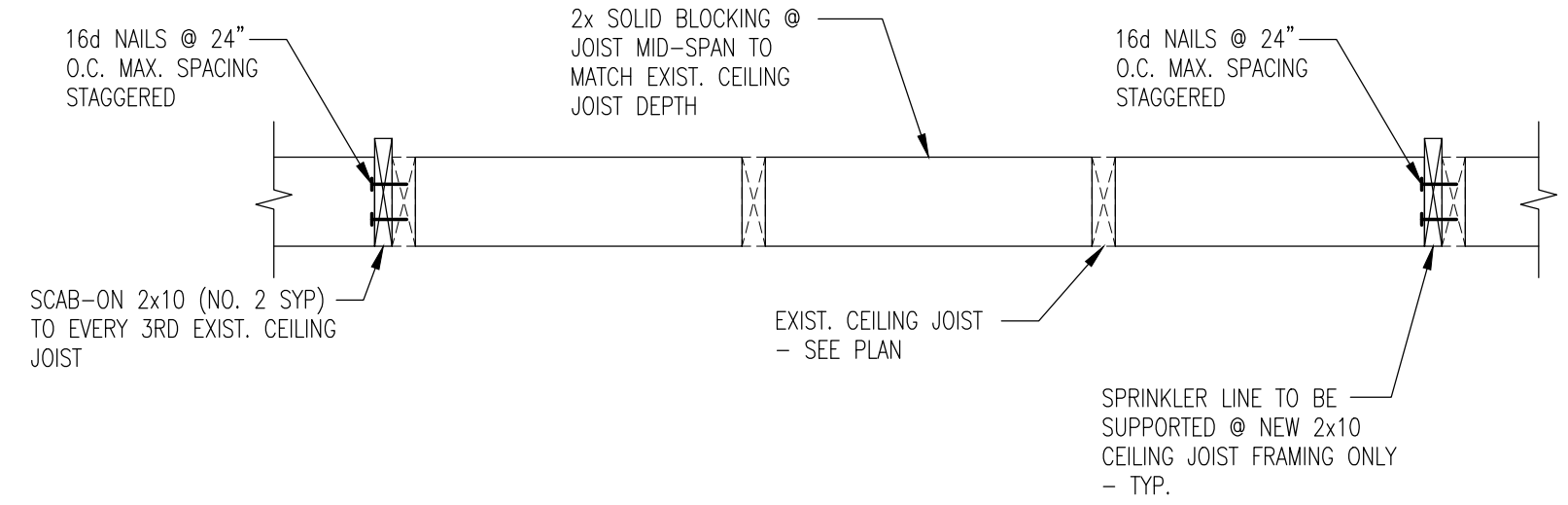
PLAN VIEW



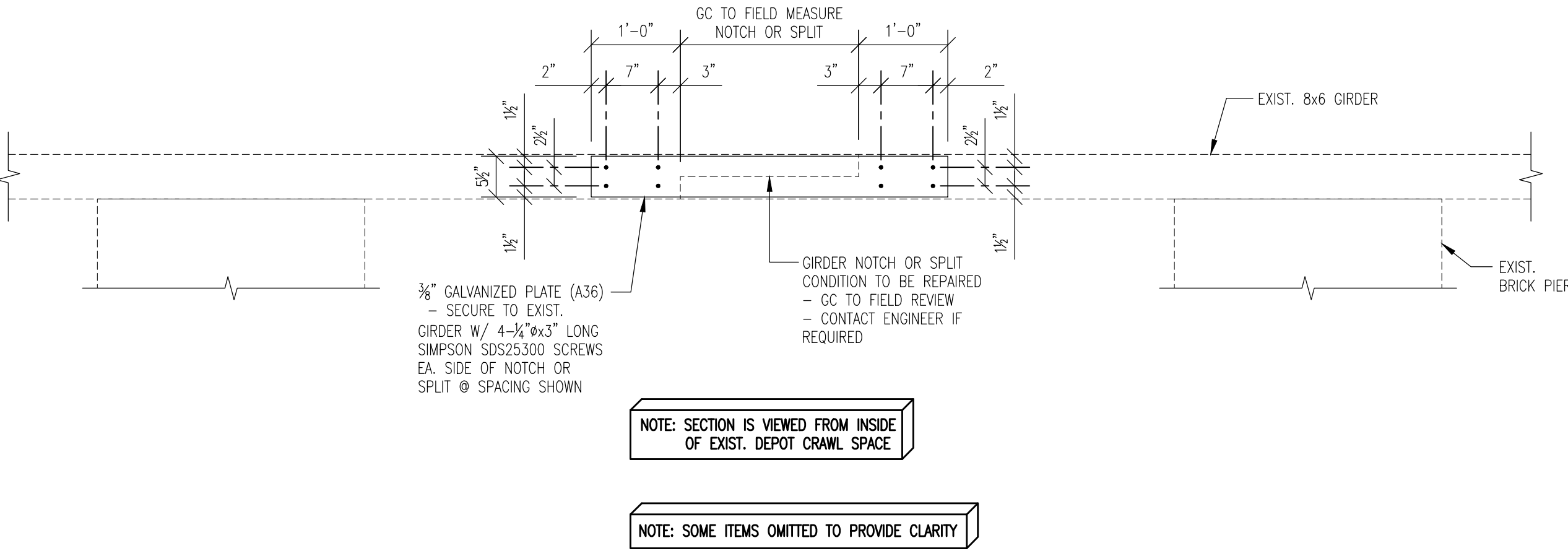
SECTION D-D



SECTION E-E



SECTION NO.	EXISTING CHIMNEY SUPPORT DETAIL		SCALE	SECTION NO.	SECTION		SCALE
1 S-304			3/4" = 1'-0"	2 S-304			3/4" = 1'-0"



SECTION NO.	SECTION		SCALE
3 S-304			3/4" = 1'-0"

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MEPC NO: 12-24

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SEAL
20707
ENGINEER
JERRY W. MOOREFIELD

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Moorefield
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FIRM REGISTRATION NO.: C-1323

ALLIANCE
ARCHITECTURE
OF THE TRIAD

170 Coliseum Drive, Suite 112 | Winston-Salem, NC 27106 | Ph: 336-712-4447

SPRING HOPE RAILROAD DEPOT
Rehabilitation & Platform Addition
101 South Ash Street
Spring Hope, North Carolina 27882

JOB	23081
DATE	2-28-25
DRAWN	MMW
SHEET	

S-304

SPECIFICATIONS:

CODES, SPECIFICATIONS AND STANDARDS

- A. APPLICABLE BUILDING CODE: THE CONTRACT DOCUMENTS ARE BASED ON THE REQUIREMENTS OF THE:
1. 2018 NORTH CAROLINA BUILDING CODE
2. BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-14)
3. 2010 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS (ANSI/AISC 360-10)

SUBMITTALS

- A. SHOP DRAWINGS AND SUBMITTALS SHALL BE SUBMITTED TO THE ENGINEER BEFORE BEGINNING CONSTRUCTION AND STAMPED APPROVED BY GENERAL CONTRACTOR
B. CLEARLY SPECIFY AND DEVIATIONS FROM THE CONTRACT DOCUMENTS ON ALL SUBMITTALS.
C. THE CONTRACTOR SHALL REVIEW EACH SUBMITTAL BEFORE SUBMITTING TO THE ENGINEER.
D. THE FOLLOWING SUBMITTALS ARE RECOMMENDED FOR THIS PROJECT:

- 1. CAST-IN-PLACE CONCRETE
a. COMPLY WITH SUBMITTAL REQUIREMENTS IN ACI 301/318
b. PRODUCT DATA
c. DESIGN MIXTURES (HISTORICAL DATA OR TRIAL BATCH)
d. REBAR SHOP DRAWING
e. SHOP DRAWINGS FOR THE DESIGN, ERECTION, AND REMOVAL OF FORMWORK, SHORES, AND RESHORES APPROVED BY A QUALIFIED PROFESSIONAL ENGINEER WHO APPROVED THE SHOP DRAWINGS.
2. STRUCTURAL STEEL
a. PRODUCT DATA
b. SHOP DRAWINGS
c. WELDING CERTIFICATES

- 3. CONCRETE MASONRY UNIT ASSEMBLIES
a. PRODUCT DATA

DIVISION 2

GEOTECHNICAL REPORT: FOUNDATION DESIGN BASED ON PRESUMPTIVE SOIL BEARING PRESSURE OF 2000 PSF. GC SHALL HAVE SOIL TESTING FIRM TO VERIFY PRESUMPTIVE BEARING PRESSURE PRIOR TO PLACEMENT OF THE CONCRETE FOOTINGS. ANY AREAS DETERMINED NOT TO PROVIDE THIS STATED SOIL BEARING PRESSURE SHALL BE BROUGHT TO THE ENGINEERS ATTENTION.

SOIL EXCAVATION AND REPLACEMENT

- A. REMOVE ALL LOOSE FILL MATERIAL WITH DEBRIS EXTENDING 5 FOOT BEYOND BUILDING FOOTPRINT TO THE MORE CONSOLIDATED MATERIAL AS APPROVED BY THE GEOTECHNICAL ENGINEER. REPLACE WITH SELECT FILL MATERIAL 8" TO 10" LOOSE LIFTS AS DIRECTED BY GEOTECHNICAL ENGINEER. COMPACT SELECT FILL MATERIAL TO 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY ACCORDING TO ASTM D 698.
B. REVIEW SOIL REPORT BORING HOLES FOR INITIAL ESTIMATES OF EXCAVATION DEPTHS. THE GEOTECHNICAL ENGINEER SHALL APPROVE FINAL EXCAVATIONS OF FOOTING AND DRILLED PIER BEARING STRATA.

SLAB-ON-GRADE CONSTRUCTION

- A. SUBGRADE PREPARATION
1. IMMEDIATELY PRIOR TO PLACEMENT OF CRUSHED STONE BELOW SLAB, THE LAST ONE FOOT OF SUBGRADE SHOULD BE RECOMPACTED TO 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698 TO DENSIFY ANY SOILS DISTURBED BY CONSTRUCTION OPERATIONS.
2. PROVIDE A 6" MINIMUM LAYER OF CLEAN ABC STONE BELOW THE SLAB ON GRADE.
3. PROVIDE VAPOR BARRIER AS SPECIFIED BY ARCHITECT OVER THE FINAL FILL BELOW THE CONCRETE SLABS.

SPREAD FOOTINGS

- A. FOOTING EXCAVATION - FOOTINGS SHALL BE NEAT EXCAVATED WHERE POSSIBLE WITH SIDES AND TOP EDGES FREE OF LOOSE OR WET MATERIALS. WHERE NEAT EXCAVATION IS NOT POSSIBLE, FOOTINGS EXCAVATION SHALL BE OPEN CUT WITH EDGES FORMED AND BRACED. ALL FOOTINGS WITH FORMED EDGES SHALL BE BACKFILLED WITH LEAN CONCRETE, CEMENT STABILIZED SAND OR SELECT FILL MATERIAL PLACED IN 8" LIFTS AND COMPACTED TO 95% OF MODIFIED STANDARD PROCTOR MAXIMUM DENSITY OF EACH LIFT. THE BOTTOM EXCAVATION SHALL BE CLEAN AND DRY WITH ALL LOOSE MATERIAL REMOVED FOR AN ESSENTIALLY FLAT BEARING SURFACE. EXCAVATIONS SHALL NOT BE LEFT OVERNIGHT UNLESS A 2" UNREINFORCED SEAL (MUD) SLAB IS PLACED AT THE BOTTOM OF THE FOOTING EXCAVATION.

DIVISION 3

CAST-IN-PLACE CONCRETE

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. SUBMIT CONCRETE MIX DESIGNS.
B. COMPLY WITH ASTM C 94; ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS"; ACI 318, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE"; AND CRSI'S "MANUAL OF STANDARD PRACTICE."

PART 2 - PRODUCTS

2.1 MATERIALS

- A. DEFORMED REINFORCING BARS: ASTM A 615, GRADE 60.
B. WELDED STEEL WIRE FABRIC: ASTM A 185, FLAT SHEETS, NOT ROLLS.
C. PORTLAND CEMENT: ASTM C 150, TYPE 1.
D. FLY ASH: ASTM C 618, TYPE F.
E. AGGREGATES: ASTM C 33, CLASS 4S.
F. FIBER REINFORCEMENT: NOT ALLOWED
G. AIR-ENTRAINING ADMIXTURE: ASTM C 260.
H. CHEMICAL ADMIXTURES: ASTM C 494, WATER REDUCING.
I. WATER STOPS: FLAT DUMBBELL OR CENTER-BUILD TYPE, OF EITHER RUBBER (CRD C 513) OR PVC (CRD C 572).
J. VAPOR RETARDER: UNDERSLAB VAPOR BARRIER FOR ALL CONCRETE SLABS AND STONE FILL SHALL BE A TOUGH, FLEXIBLE SANDWICH OF KRAFT PAPER, GLASS REINFORCING FIBERS, AND TWO LAYERS OF 4.0 MIL INERT POLYETHYLENE COMBINED IN ONE LAYER UNDER HEAT AND PRESSURE. THE VAPOR BARRIER SHALL HAVE A MAXIMUM PERM RATING OF 0.12 WHEN TESTED IN ACCORDANCE WITH ASTM E96. PROCEDURE A. THE POLYETHYLENE FILM MUST COMPLY WITH THE NORTH CAROLINA WEIGHTS AND MEASURES ACT (GS.81A) AND NORTH CAROLINA DEPARTMENT OF AGRICULTURAL PACKAGING AND LABELING REGULATIONS (1 NCAc 38.0300) WITH RESPECT TO LENGTH, WIDTH, THICKNESS, AND WEIGHT.

PART 3 - EXECUTION

- 1. CONSTRUCT FORMWORK AND MAINTAIN TOLERANCES AND SURFACE IRREGULARITIES WITHIN ACI 117 LIMITS OF CLASS A FOR CONCRETE EXPOSED TO VIEW AND CLASS C FOR OTHER CONCRETE SURFACES.
2. SET WATER STOPS WHERE INDICATED TO ENSURE JOINT WATER TIGHTNESS.
3. PLACE VAPOR RETARDER ON PREPARED SUBGRADE, WITH JOINTS LAPPED 6 INCHES (150 MM) AND SEALED.
4. ACCURATELY POSITION, SUPPORT, AND SECURE REINFORCEMENT.
5. INSTALL CONSTRUCTION, ISOLATION, AND CONTROL JOINTS.
6. PLACE CONCRETE IN A CONTINUOUS OPERATION AND CONSOLIDATE USING MECHANICAL VIBRATING EQUIPMENT.
7. PROTECT CONCRETE FROM PHYSICAL DAMAGE OR REDUCED STRENGTH DUE TO WEATHER EXTREMES DURING MIXING, PLACING, AND CURING.
8. FORMED SURFACE FINISH: SMOOTH-FORMED FINISH FOR CONCRETE EXPOSED TO VIEW, COATED, OR COVERED BY WATERPROOFING OR OTHER DIRECT-APPLIED MATERIAL; ROUGH-FORMED FINISH ELSEWHERE.
9. UNFORMED SLAB FINISHES: SCRATCH FINISH FOR SURFACES TO RECEIVE MORTAR SETTING BEDS FLOOR FINISH SURFACES FOR INTERIOR STEPS AND RAMPS AND FINISHES TO RECEIVE WATERPROOFING, ROOFING, OR OTHER DIRECT-APPLIED MATERIAL; TROWEL-FINISH FOR FLOOR SURFACES AND FLOORS TO RECEIVE FLOOR COVERINGS; PAINT, OR OTHER THIN FILM-FINISH COATINGS TROWEL AND FINE BROOM FINISH FOR SURFACES TO RECEIVE THIN-SET TILE NONSLIP BROOM FINISH TO EXTERIOR CONCRETE PLATFORMS, STEPS, AND RAMPS.
10. CURE FORMED SURFACES BY MOIST CURING UNTIL FORMS ARE REMOVED.
11. BEGIN CURING UNFORMED CONCRETE AFTER FINISHING. APPLY MEMBRANE-FORMING CURING COMPOUND TO

CONCRETE.
L. PROTECT CONCRETE FROM DAMAGE, REPAIR SURFACE DEFECTS IN CONCRETE.

DIVISION 4

UNIT MASONRY ASSEMBLIES

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. COMPLY WITH ACI 530.1/ASCE 6/TMS 602.
PART 2 - PRODUCTS
2.1 MASONRY UNITS
A. CONCRETE MASONRY UNITS: ASTM C 90; WEIGHT CLASSIFICATION, LIGHTWEIGHT TYPE II, NONMOISTURE-CONTROLLED UNITS; f'm=1500PSI

- 1. SPECIAL SHAPES FOR LINTELS, CORNERS, JAMBS, SASH, CONTROL JOINTS, AND OTHER SPECIAL CONDITIONS.
2. SQUARE-EDGED UNITS FOR OUTSIDE CORNERS, UNLESS OTHERWISE INDICATED.
2.2 MORTAR (NEW MASONRY ONLY)
A. MORTAR: ASTM C 270, PROPORTION SPECIFICATION, FOR JOB-MIXED MORTAR; AND ASTM C 1142 FOR READY-MIXED MORTAR.

- 1. DO NOT USE CALCIUM CHLORIDE IN MORTAR.
2. FOR MASONRY BELOW GRADE, IN CONTACT WITH EARTH, REINFORCED MASONRY, AND WHERE INDICATED, USE TYPE S.
3. FOR EXTERIOR, ABOVE-GRADE, LOAD-BEARING AND NON-LOAD-BEARING WALLS AND PARAPET WALLS; FOR INTERIOR LOAD-BEARING WALLS; FOR INTERIOR NON-LOAD-BEARING PARTITIONS, AND FOR OTHER APPLICATIONS WHERE ANOTHER TYPE IS NOT INDICATED, USE TYPE N.

2.3 GROUT

- A. GROUT FILL CELLS WITH f'c = 3000PSI SAND MIX GROUT.

2.4 JOINT REINFORCEMENT, TIES, AND ANCHORS

- A. PROVIDE JOINT REINFORCEMENT FORMED FROM GALVANIZED CARBON-STEEL WIRE, ASTM A 153, CLASS B-2, FOR BOTH INTERIOR AND EXTERIOR WALLS.
1. WIRE DIAMETER FOR SIDE RODS: 0.1483 INCH (3.8 MM).
2. WIRE DIAMETER FOR CROSS RODS: 0.1483 INCH (3.8 MM).
3. FOR SINGLE-WYTHE MASONRY, PROVIDE TRUSS DESIGN.
4. FOR MULTI-WYTHE MASONRY, PROVIDE TRUSS DESIGN WITH 3 SIDE RODS.

- B. VENEER ANCHORS: BOND BRICK VENEER WITH CMU WITH HORIZONTAL JOINT REINFORCEMENT.

2.5 EMBEDDED FLASHING MATERIALS

- A. SHEET METAL FLASHING: SEE ARCHITECT

2.6 MISCELLANEOUS MASONRY ACCESSORIES

- A. WEEP HOLES: SEE ARCHITECT. (FOR NEW MASONRY ONLY)

B. MASONRY CLEANER: ½-CUP TETRASODIUM POLYPHOSPHATE AND ½-CUP LAUNDRY DETERGENT DISSOLVED IN 1 GAL. OF WATER.

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL

- A. CUT MASONRY UNITS WITH MOTOR-DRIVEN SAWS. INSTALL CUT UNITS WITH CUT SURFACES AND, WHERE POSSIBLE, CUT EDGES CONCEALED.
B. MIX UNITS FOR EXPOSED UNIT MASONRY FROM SEVERAL PALLETS OR CUBES AS THEY ARE PLACED TO PRODUCE UNIFORM BLEND OF COLORS AND TEXTURES.
C. STOPPING AND RESUMING WORK: IN EACH COURSE, RACK BACK UNITS; DO NOT TOOTH.
D. FILL CORES IN HOLLOW CONCRETE MASONRY UNITS WITH GROUT 24 INCHES (600 MM) UNDER BEARING PLATES, BEAMS, LINTELS, POSTS, AND SIMILAR ITEMS, UNLESS OTHERWISE INDICATED.

ADD VERTICAL WALL CONTROL JOINTS @ 30' MAX. HORIZONTAL SPACING. MASONRY CONTRACTOR TO LOCATE WALL CONTROL JOINTS.

- F. TOOL EXPOSED JOINTS SLIGHTLY CONCAVE WHEN THUMBPRINT HARD, UNLESS OTHERWISE INDICATED.
G. KEEP CAVITIES CLEAN OF MORTAR DROPPINGS AND OTHER MATERIALS DURING CONSTRUCTION. STRIKE JOINTS FACING CAVITIES FLUSH.

3.2 LINTELS

- A. INSTALL STEEL LINTELS WHERE INDICATED.
B. MASONRY LINTELS WHERE SHOWN. PRECAST LINTELS MADE FROM CONCRETE MATCHING CONCRETE MASONRY UNITS IN COLOR, TEXTURE, AND COMPRESSIVE STRENGTH AND WITH REINFORCEMENT BARS INDICATED OR REQUIRED TO SUPPORT LOADS INDICATED.
C. MINIMUM BEARING OF 8 INCHES (200 MM) AT EACH JAMB, UNLESS OTHERWISE INDICATED.

3.3 FLASHING AND WEEP HOLES (SEE ARCH.)

3.6 CLEANING (FOR NEW MASONRY ONLY)

- A. CLEAN STONE MASONRY VENEER AS WORK PROGRESSES. REMOVE MORTAR FINS AND SMEARS BEFORE TOOLING JOINTS.
B. FINAL CLEANING: AFTER MORTAR IS THOROUGHLY SET AND CURED, REMOVE LARGE MORTAR PARTICLES AND SCRUB UNIT MASONRY.
1. WET WALL SURFACES WITH WATER, APPLY CLEANER, THEN REMOVE CLEANER BY RINSING THOROUGHLY WITH CLEAR WATER.

DIVISION 5

STRUCTURAL STEEL

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. COMPLY WITH AISC'S "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS--ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN," RSCC'S "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A 325 OR A 490 BOLTS," AND AWS D1.1 "STRUCTURAL WELDING CODE--STEEL."

PART 2 - PRODUCTS

2.1 STRUCTURAL STEEL AND ACCESSORIES

- A. STRUCTURAL-STEEL SHAPES, PLATES, AND BARS: ASTM A992, CARBON STEEL.
1. POWER-DRIVEN FASTENERS: CABO NER-272.
2. BOLTS: STEEL BOLTS COMPLYING WITH ASTM A 307, GRADE A (ASTM F 568, PROPERTY CLASS 4.6); WITH ASTM A 563 (ASTM A 563M) HEX NUTS AND, WHERE INDICATED, FLAT WASHERS.
C. METAL FRAMING ANCHORS: HOT-DIP GALVANIZED STEEL OF STRUCTURAL CAPACITY, TYPE, AND SIZE INDICATED.
D. SILL-SEALER: GLASS-FIBER INSULATION, 1-INCH (25-MM) THICK, COMPRESSIBLE TO ½ INCH (0.8 MM).
E. ADHESIVES FOR FIELD GLUING PANELS TO FRAMING: APA AFG-01.
PART 3 - EXECUTION
3.1 INSTALLATION
A. FIT ROUGH CARPENTRY TO OTHER CONSTRUCTION; SCRIBE AND COPE FOR ACCURATE FIT. CORRELATE LOCATION OF FURRING, BLOCKING, AND SIMILAR SUPPORTS TO ALLOW ATTACHMENT OF OTHER CONSTRUCTION.
B. SECURELY ATTACH ROUGH CARPENTRY WORK TO SUBSTRATE BY ANCHORING AND FASTENING AS INDICATED, COMPLYING WITH THE FOLLOWING:
1. CABO NER-272 FOR POWER-DRIVEN STAPLES, P-NAILS, AND ALLIED FASTENERS.
2. PUBLISHED REQUIREMENTS OF METAL FRAMING ANCHOR MANUFACTURER.
3. CONNECTIONS & FASTENING per 2304.9 OF THE NORTH CAROLINA STATE BUILDING CODE, BUILDING CODE 2012.
C. USE HOT-DIP GALVANIZED OR STAINLESS-STEEL NAILS WHERE ROUGH CARPENTRY IS EXPOSED TO WEATHER, IN GROUND CONTACT, OR IN AREA OF HIGH RELATIVE HUMIDITY.
D. INSTALLATION OF STRUCTURAL-USE PANELS: COMPLY WITH APPLICABLE RECOMMENDATIONS CONTAINED IN APA FORM NO. E30 AND AS FOLLOWS:
1. SHEATHING: NAIL/SCREW TO FRAMING PER STRUCTURAL PLANS. WHERE NOT SPECIFICALLY INDICATED IN THE PLANS INSTALL PER THE MANUFACTURER'S SUGGESTED REQUIREMENTS.

INDICATED. SNUG TIGHTEN HIGH-STRENGTH BOLTS ACCORDING TO RSCC'S "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A 325 OR A 490 BOLTS."

- D. WELD CONNECTIONS: COMPLY WITH AWS D1.1.

STEEL DECK

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. COMPLY WITH SDI PUBLICATION NO. 28, "SPECIFICATIONS AND COMMENTARY FOR STEEL ROOF DECK AND NON-COMPOSITE STEEL FLOOR DECK".
B. COMPLY WITH AWS D1.1, "STRUCTURAL WELDING CODE--STEEL," AND AWS D1.3, "STRUCTURAL WELDING CODE--SHEET STEEL."

PART 2 - PRODUCTS

2.1 MATERIALS

- A. GALVANIZED STEEL SHEET: ASTM A 653 (ASTM A 653M), STRUCTURAL QUALITY, AND AS FOLLOWS:
1. ZINC-COATING WEIGHT: G60 (Z180).
2. GRADE: GRADE 60.

2.2 DECKING

- A. FLOOR DECK: FABRICATE PANELS FROM PRIME PAINTED STEEL WITHOUT TOP-FLANGE STIFFENING GROOVES AND AS FOLLOWS:
1. PRIME-PAINTED STEEL SHEET: ASTM A611, GRADE C MINIMUM, SHOP PRIMED WITH GRAY OR WHITE BAKED-ON, LEAD- AND CHROMATE-FREE RUST-INHIBITING PRIMER.
2. DECK PROFILE: VULCRAFT TYPE C OR EQUAL.
3. PROFILE DEPTH: TYPE C, 1 INCHES (25.4 MM).
4. DESIGN UNCOATED STEEL THICKNESS: .02095" (0.7493MM)

2.3 MISCELLANEOUS

- A. ACCESSORIES: MANUFACTURER'S RECOMMENDED ROOF DECK ACCESSORY MATERIALS.
B. SHEAR CONNECTORS: AWS D1.1, TYPE B, HEADED-STUD TYPE, COLD-FINISHED CARBON STEEL.
C. GALVANIZING REPAIR PAINT: SSPC-PAIN 20 OR DOD-P-21035.

PART 3 - EXECUTION

3.1 DECK INSTALLATION

- A. INSTALL DECK PANELS AND ACCESSORIES ACCORDING TO SDI PUBLICATION NO. 28.
B. PLACE, ADJUST, ALIGN, AND BEAR DECK PANELS ON STRUCTURE. DO NOT STRETCH OR CONTRACT SIDE LAP INTERLOCKS.
C. PLACE DECK PANELS FLAT AND SQUARE AND WELD TO STRUCTURE WITHOUT WARP OR DEFLECTION.
D. CUT, REINFORCE, AND FIT DECK PANELS AND ACCESSORIES AROUND OPENINGS AND PROJECTIONS.
E. ROOF DECK ACCESSORIES: INSTALL FINISH STRIPS, COVER PLATES, END CLOSURES, AND REINFORCING CHANNELS. WELD TO SUBSTRATE.
F. FLOOR POUR STOPS AND GIRDER FILLERS: WELD FOUR STOPS AND GIRDER FILLERS TO STRUCTURE.
G. ROOF DECK CLOSURES: WELD TIGHT-FITTING CLOSURES AT OPEN ENDS OF RIBS AND SIDES OF DECKING. WELD COVER PLATES AT CHANGES IN DIRECTION OF FLOOR DECK PANELS.
H. WELD SHEAR CONNECTORS THROUGH DECK TO STRUCTURE.
I. PREPARE AND REPAIR DAMAGED GALVANIZED COATINGS ON BOTH SURFACES WITH GALVANIZED REPAIR PAINT ACCORDING TO ASTM A 780.
J. WIRE BRUSH, CLEAN, AND PAINT SCARRED AREAS, WELDS, AND RUST SPOTS ON BOTH SURFACES OF PAINTED DECK PANELS.

DIVISION 6

ROUGH CARPENTRY

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. SUBMIT MODEL CODE EVALUATION REPORTS FOR FIRE-RETARDANT-TREATED WOOD.
PART 2 - PRODUCTS
2.1 LUMBER, GENERAL (SEE 061000 FOR ADDITIONAL INFORMATION)
A. DRESSED LUMBER, S4S, PERCENT MAXIMUM MOISTURE CONTENT FOR 2-INCH (38-MM) THICKNESS OR LESS, MARKED WITH GRADE STAMP OF INSPECTION AGENCY.
A. PRESERVATIVE-TREATED MATERIALS: A/WPA C2 LUMBER AND A/WPA C9 PLYWOOD, LABELED BY AN INSPECTION AGENCY APPROVED BY AISC'S BOARD OF REVIEW. AFTER TREATMENT, KILN-DRY LUMBER AND PLYWOOD TO 19 AND 15 PERCENT MOISTURE CONTENT, RESPECTIVELY. TREAT INDICATED ITEMS AND THE FOLLOWING:
1. WOOD MEMBERS IN CONNECTION WITH ROOFING, FLASHING, VAPOR BARRIERS, AND WATERPROOFING.
2. CONCEALED MEMBERS IN CONTACT WITH MASONRY OR CONCRETE.
3. WOOD FRAMING MEMBERS LESS THAN 18 INCHES (460 MM) ABOVE GRADE.
4. WOOD FLOOR PLATES INSTALLED OVER CONCRETE SLABS DIRECTLY IN CONTACT WITH EARTH.

2.3 LUMBER

- A. DIMENSION LUMBER: THE FOLLOWING GRADES PER INSPECTION AGENCY INDICATED.
5. STRUCTURAL MEMBERS: AS INDICATED ON PLANS AND SECTIONS.
B. CONCEALED BOARDS: 19 PERCENT MAXIMUM MOISTURE CONTENT; MIXED SOUTHERN PINE; NO. 2 PER SPIB RULES.
C. MISCELLANEOUS LUMBER: NO. 2 GRADE; SPRUCE-PINE-FIR; NELMA, NLGA, WOLB, OR W/WPA.

2.4 PANEL PRODUCTS

- A. WOOD-BASED STRUCTURAL-USE PANELS: DOC PS 2. PROVIDE PLYWOOD COMPLYING WITH DOC PS 1, WHERE PLYWOOD IS INDICATED.

2.5 MISCELLANEOUS PRODUCTS

- A. AIR-INFILTRATION BARRIER: SEE ARCH.
B. FASTENERS: SIZE AND TYPE INDICATED. WHERE ROUGH CARPENTRY IS EXPOSED TO WEATHER, IN GROUND CONTACT, OR IN AREA OF HIGH RELATIVE HUMIDITY, PROVIDE FASTENERS WITH A HOT-DIP ZINC COATING PER ASTM A 153 OR OF TYPE 304 STAINLESS STEEL.

EXISTING DEPOT CODE LOADS

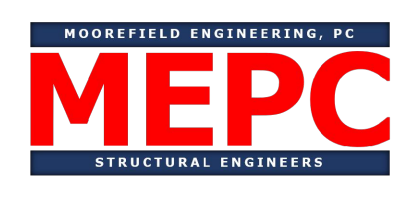
DESIGN LOADS (NBC 2018):

- A. FLOOR LIVE LOAD: SECTION 1607.10
1. ELEVATED FLOOR/RAMP = 100 PSF
2. ELEVATED FLOOR W/ STAGE = 150 PSF
B. ROOF LIVE LOAD: SECTION 1607.12
1. ROOF = 20 PSF
C. ROOF SNOW LOAD DATA: SECTION 1609 (EXISTING)
1. FLAT ROOF SNOW LOAD, P_s = 10.5 PSF
2. SNOW EXPOSURE FACTOR, C_e = 1.0
3. SNOW IMPORTANCE FACTOR, I_s = 1.0
4. ROOF THERMAL FACTOR, C_t = 1.0
C. WIND DESIGN DATA: SECTION 1609 (EXISTING)
1. ULTIMATE DESIGN WIND SPEED, V_{ult} = 115
2. RISK CATEGORY = II
3. WIND EXPOSURE CATEGORY = B
4. COMPONENTS & CLADDING DESIGN PRESSURES (U_{cl}):
a. ROOF INTERIOR ZONES = 22 PSF
b. ROOF EDGE ZONES = 38 PSF
c. ROOF CORNER ZONES = 56 PSF
d. WALL INTERIOR ZONES = 26 PSF
e. WALL EDGE ZONES = 32 PSF
D. EARTHQUAKE DESIGN DATA: SECTION 1613 (EXISTING)
1. RISK CATEGORY = I
2. SEISMIC IMPORTANCE FACTOR, I_s = N/A
3. MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS:
a. SHORT PERIOD, S_a = 0.135
b. 1 SECOND PERIOD, S_a = N/A
4. SITE CLASS = N/A
5. DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS:
a. SHORT PERIOD, S_{ds} = N/A
b. 1 SECOND PERIOD, S_{d1} = N/A
6. SEISMIC DESIGN CATEGORY = N/A
7. BASIC SEISMIC FORCE-RESISTING SYSTEM: N/A
8. DESIGN BASE SHEAR
a. V_b = N/A
b. V_y = N/A
9. SEISMIC RESPONSE COEFFICIENT, C_s = N/A
10. RESPONSE MODIFICATION COEFFICIENT, R = N/A
11. ANALYSIS PROCEDURE: N/A

NEW PLATFORM CODE LOADS

DESIGN LOADS (NBC 2018):

- A. FLOOR LIVE LOAD: SECTION 1607.10
1. ELEVATED FLOOR/RAMP = 100 PSF
2. ELEVATED FLOOR W/ STAGE = 150 PSF
B. ROOF LIVE LOAD: SECTION 1607.12
1. ROOF = 20 PSF
C. ROOF SNOW LOAD DATA: SECTION 1609
1. FLAT ROOF SNOW LOAD, P_s = 11.6 PSF
2. SNOW EXPOSURE FACTOR, C_e = 1.0
3. SNOW IMPORTANCE FACTOR, I_s = 1.0
4. ROOF THERMAL FACTOR, C_t = 1.1
C. WIND DESIGN DATA: SECTION 1609
1. ULTIMATE DESIGN WIND SPEED, V_{ult} = 115
2. RISK CATEGORY = I
3. WIND EXPOSURE CATEGORY = B
4. COMPONENTS & CLADDING DESIGN PRESSURES (U_{cl}):
a. ROOF INTERIOR ZONES = 22 PSF
b. ROOF EDGE ZONES = 38 PSF
c. ROOF CORNER ZONES = 56 PSF
d. WALL INTERIOR ZONES = 26 PSF
e. WALL EDGE ZONES = 32 PSF
D. EARTHQUAKE DESIGN DATA: SECTION 1613 (EXISTING)
1. RISK CATEGORY = I
2. SEISMIC IMPORTANCE FACTOR, I_s = 1
3. MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS:
a. SHORT PERIOD, S_a = 0.135
b. 1 SECOND PERIOD, S_a = 0.088
4. SITE CLASS = B
5. DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS:
a. SHORT PERIOD, S_{ds} = 0.144
b. 1 SECOND PERIOD, S_{d1} = 0.102
6. SEISMIC DESIGN CATEGORY = B
7. BASIC SEISMIC FORCE-RESISTING SYSTEM: INTERMEDIATE MASONRY SHEAR WALLS
8. DESIGN BASE SHEAR
a. V_b = N/A
b. V_y = N/A
9. SEISMIC RESPONSE COEFFICIENT, C_s = 0.043
10. RESPONSE MODIFICATION COEFFICIENT, R = 3.5
11. ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE (613)



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Winston-Salem, NC 27106
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Jerry W. Moore
Professional Engineer
2025.02.26
14:24:51 -05'00'
FIRM REGISTRATION NO.: C-1323

STRUCTURAL ABBREVIATIONS

- A.B. = ANCHOR BOLTS
ABC = AGGREGATE BASE COARSE
A.E.F.F.E. = ABOVE EXISTING FINISHED FLOOR ELEVATION
A.F.F.E. = ABOVE FINISHED FLOOR ELEVATION
A.R.F.F.E. = ABOVE REFERENCED FINISHED FLOOR ELEVATION
ALT. = ALTERNATE
ARCH. = ARCHITECTURAL
B.F.F.E. = BELOW FINISHED FLOOR ELEVATION
B.M.B.M. = BY METAL BUILDING MANUFACTURE
B.R.F.F.E. = BELOW REFERENCED FINISHED FLOOR ELEVATION
BLDG. = BUILDING
BOT. = BOTTOM
B.O.W. = BOTTOM OF WALL
BRG. = BEARING
C.J. = COLD JOINT
CL. = CENTER LINE
CLR. = CLEAR
CMU = CONCRETE MASONRY UNIT
COL. = COLUMN
CONC. = CONCRETE
CONN. = CONNECTION
CONST. = CONSTRUCTION
CONT. = CONTINUOUS
COORD. = COORDINATE
DET. = DETAIL
DIA. = DIAMETER
DIM. = DIMENSION
DWGS. = DRAWINGS
D.W.L. = DOWN
E.A. = EACH
E.F.F.E. = EXISTING FINISHED FLOOR ELEVATION
E.J. = EXPANSION JOINT
ELEV. = ELEVATION
E.W. = EACH WAY
EXP. = EXPANSION
EXIST. = EXISTING
EXT. = EXTENSION
FLR. = FLOOR
FD. = FLOOR DRAIN
FND. = FOUNDATION
FP. = FULL PENETRATION
FTD. = FOOTING
HK. = HOOK
HORIZ. = HORIZONTAL
HSS = HOLLOW STRUCTURAL SECTION (TUBE OR PIPE)
INT. = INTERIOR
JT. = JOINT
K. = KIP (1000 lbs)
L.H. = LONG LEG HORIZONTAL
LLV. = LONG LEG VERTICAL
MANUF. = MANUFACTURER
MCS. = MASONRY
MAX. = MAXIMUM
MECH. = MECHANICAL
MIN. = MINIMUM
NOM. = NOMINAL
O.C. = ON CENTER SPACING
OPNG. = OPENING
PC. = PRECAST
PL. = PLATE
REINF. = REINFORCEMENT
REQD. = REQUIRED
R.F.F.E. = REFERENCED FINISHED FLOOR ELEVATION
SC. = SLOPE CRITICAL
SCHD. = SCHEDULE
SECT. = SECTION
S.J. = SAWED CUT JOINT
T&B. = TOP AND BOTTOM
T.O.F. = TOP OF FOOTING
T.O.P. = TOP OF PIER
T.O.S. = TOP OF STEEL
T.O.W. = TOP OF WALL
TYP. = TYPICAL
U.N.D. = UNLESS NOTED OTHERWISE
VERT. = VERTICAL
W. = WIDE FLANGE MEMBER
W/F. = WITH
W/F. = WELDED WIRE FABRIC
* = COORD. WITH SITE PLAN

REVISIONS

Table with 4 columns: No., Description, Date, and By.

SPRING HOPE RAILROAD DEPOT
Building Rehabilitation & Platform Addition
101 South Ash Street
Spring Hope, North Carolina 27882

JOB: 23081

DATE: 2-28-25

DRAWN: JWM

SHEET

S-701

GENERAL PLAN SYMBOLS	
1	PLAN REVISION NUMBER
M-001	DETAIL NUMBER ON SHEET SHEET NUMBER WHERE DETAIL IS PLACED
Ⓚ	KEYNOTE SYMBOL
Ⓚ	CONTINUATION SYMBOL
●	POINT WHERE NEW CONNECTS TO EXISTING
Room	ROOM NAME / NUMBER
▨	AREA BEING DEMOLISHED
▩	AREA NOT IN CONTRACT

ABBREVIATIONS			
Ø	ROUND	LVR	LOUVER
ABV	ABOVE	MAX	MAXIMUM
AD	AREA DRAIN	MD	MOTORIZED DAMPER
ADD	ADDENDUM	MECH	MECHANICAL
AF	ABOVE FINISHED FLOOR	MFR	MANUFACTURER
ALT	ALTERNATE	MIN	MINIMUM
AP	ACCESS PANEL	MISC	MISCELLANEOUS
ARCH	ARCHITECTURAL	MTR	MOTOR
ARCH	ARCHITECTURAL	NC	NORMALLY CLOSED
BFF	BELOW FINISHED FLOOR	NO	NOT IN CONTRACT
BLW	BELOW	NR	NORMALLY OPEN
CAP	CAPACITY	NTS	NOT TO SCALE
CB	CATCH BASIN	PD	PRESSURE DROP
CLG	CEILING	PIV	POST INDICATOR VALVE
CO	CLEAN OUT	PS	POUNDS PER SQUARE INCH
CW	COLD WATER	PRV	PRESSURE REDUCING VALVE
D	DEGREE	PSIG	POUNDS PER SQUARE INCH GAUGE
DA	DIAMETER	PWR	POWER
DN	DOWN	REC	RECESSED
EA	EACH	RED	REDUCED
ELEC	ELECTRICAL	RM	ROOM
EQUIP	EQUIPMENT	RF	REVOLUTIONS PER MINUTE
EIA	EXHAUST AIR	SAF	SANITARY
EG	EGRESS FAHRENHEIT	SAF	SANITARY
FD	FLOOR DRAIN	SAF	SANITARY
FDC	FIRE DEPARTMENT CONNECTION	SAF	SANITARY
FL	FLOOR	SAF	SANITARY
FO	FUEL OIL	SAF	SANITARY
FOV	FUEL OIL VENT	SAF	SANITARY
FOR	FUEL OIL RETURN	SAF	SANITARY
FOS	FUEL OIL SUPPLY	SAF	SANITARY
FPM	FEET PER MINUTE	SAF	SANITARY
FT	FOOT/FEET	SAF	SANITARY
GAL	GALLON	SAF	SANITARY
GF	GAS-FIRED	SAF	SANITARY
GC	GENERAL CONTRACTOR	SAF	SANITARY
GRM	GALLONS PER MINUTE	SAF	SANITARY
HB	HOSE BIB	SAF	SANITARY
HP	HORSE POWER	SAF	SANITARY
HTR	HEATER	SAF	SANITARY
HYD	HYDRANT	SAF	SANITARY
ID	INDIRECT	SAF	SANITARY
IN	INCH	SAF	SANITARY
INV	INVERT	SAF	SANITARY
LB	POUND	SAF	SANITARY

EQUIPMENT ABBREVIATIONS			
AC	AIR CONDITIONING UNIT	ET	EXPANSION TANK
ACCU	AIR COOLING CONDENSING UNIT	EWH	ELECTRIC WATER HEATER
AHU	AIR HANDLING UNIT	FCU	FAN COIL UNIT
AS	AIR SEPARATOR	FP	FIRE PUMP
B	BOILER	GI	GREASE INTERCEPTOR
CH	CHILLER	GRV	GRAVITY ROOF VENTILATOR
CT	COOLING TOWER	HWP	HEATING WATER PUMP
CUN	CABINET UNIT HEATER	HRU	HEAT RECOVERY UNIT
CHWP	CHILLED WATER PUMP	PRV	POWER ROOF VENTILATOR
DBP	DOMESTIC WATER BOOSTER PUMP	RE	RETURN EXHAUST FAN
DC	DUCT MOUNTED COIL	RTU	ROOF TOP UNIT
DCP	DOMESTIC WATER CIRCULATING PUMP	SP	SUMP PUMP
EF	EXHAUST FAN	UH	UNIT HEATER
EDC	ELECTRIC DUCT COIL	WH	WATER HEATER

NOTE:
ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET. THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

FIRE PROTECTION SYMBOLS	
— 2 —	NOMINAL PIPE SIZE
—	ABOVE GROUND PIPING
—	BELOW GROUND PIPING
—	PIPE SLOPE (WHEN APPLICABLE)
(E)	EXISTING PIPE TO REMAIN
—	PIPE TO BE DEMOLISHED
FP-W	FIRE SPRINKLER - WET
FP-D	FIRE SPRINKLER - DRY
FP-PA	FIRE SPRINKLER - PREACTION
FW	FIRE AND WATER SERVICE
FP-O	FIRE SPRINKLER - OTHER
—	UPRIGHT SPRINKLER
—	PENDENT SPRINKLER
—	RECESSED SPRINKLER
—	CONCEALED HEAD
—	UPRIGHT SPRINKLER - DRY
—	SIDEWALL SPRINKLER
—	EXTENDED COVERAGE SPRINKLER
—	STANDPIPE VALVE
—	OBSTRUCTION FROM DUCTWORK 48" AND GREATER
48"x18" S/A	
—	CHECK VALVE
—	ALARM CHECK VALVE
—	TAMPER DETECTION VALVE
—	DRY PIPE VALVE
—	INDICATING BUTTERFLY VALVE
—	POST INDICATOR VALVE
—	VALVE NONRISING STEM
—	OS&Y VALVE
—	PREACTION VALVE
—	DELUGE VALVE
—	THRUST BLOCK
—	PIPE ANCHOR
—	FREESTANDING SIAMESE FIRE DEPARTMENT CONNECTION
—	SINGLE FIRE DEPARTMENT CONNECTION
—	RISER ASSEMBLY
—	DOUBLE CHECK (OS&Y)
—	DOUBLE CHECK (BUTTERFLY WITH TAMPER)
—	REDUCED PRESSURE ZONE
—	EQUIPMENT IDENTITY

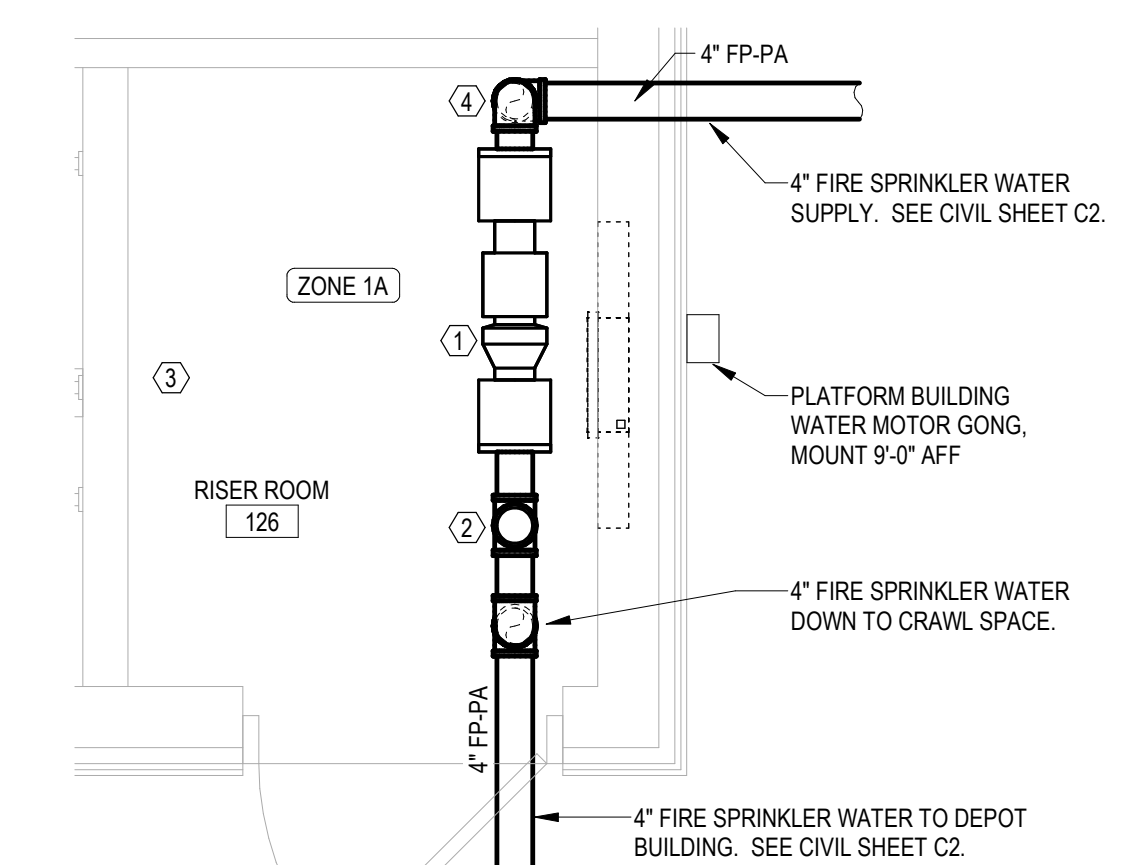
EARTHQUAKE DESIGN DATA							
LOCATION NAME	SEISMIC IMPORTANCE FACTOR	SEISMIC USE GROUP	MAPPED SPECTRAL RESPONSE ACCELERATIONS	SITE CLASS	SPECTRAL RESPONSE CATEGORY	SEISMIC DESIGN CATEGORY	RESPONSE MODIFICATION FACTOR
SPRING HOPE, NC	I _p = 1.25	II	S _s = 0.107; S ₁ = 0.052	D	S _{Ds} = 0.114; S _{D1} = 0.083	B	R _p = 4.5

FIRE PROTECTION SPRINKLER SCHEDULE										
AREA DESIGNATION	SPACE NAME/FUNCTION	DESCRIPTION	BASIS OF DESIGN	HOSE STREAM GPM	SYSTEM TYPE	DENSITY (GPM/SQFT)	REMOTE AREA	SPRINKLER TEMP RATING	WATER SUPPLY DURATION	NOTES
ZONE 1	PLATFORMCORE AREA/BELOW FLOOR	LIGHT HAZARD	NFPA 13	100	DOUBLE INTERLOCK PRE-ACTION	0.1	1500	165	30	1
ZONE 1A	RISER ROOM	ORDINARY HAZARD GROUP I	NFPA 13	250	DOUBLE INTERLOCK PRE-ACTION	0.15	1500	165	60	1
ZONE 2	EVENTS ROOM/CORE AREA	LIGHT HAZARD	NFPA 13	100	DOUBLE INTERLOCK PRE-ACTION	0.1	1500	165	30	2
ZONE 3	ATTIC	LIGHT HAZARD	NFPA 13	100	DOUBLE INTERLOCK PRE-ACTION	0.1	1500	225	30	2
ZONE 3A	BELOW FLOOR	LIGHT HAZARD	NFPA 13	100	DOUBLE INTERLOCK PRE-ACTION	0.1	1500	165	30	2

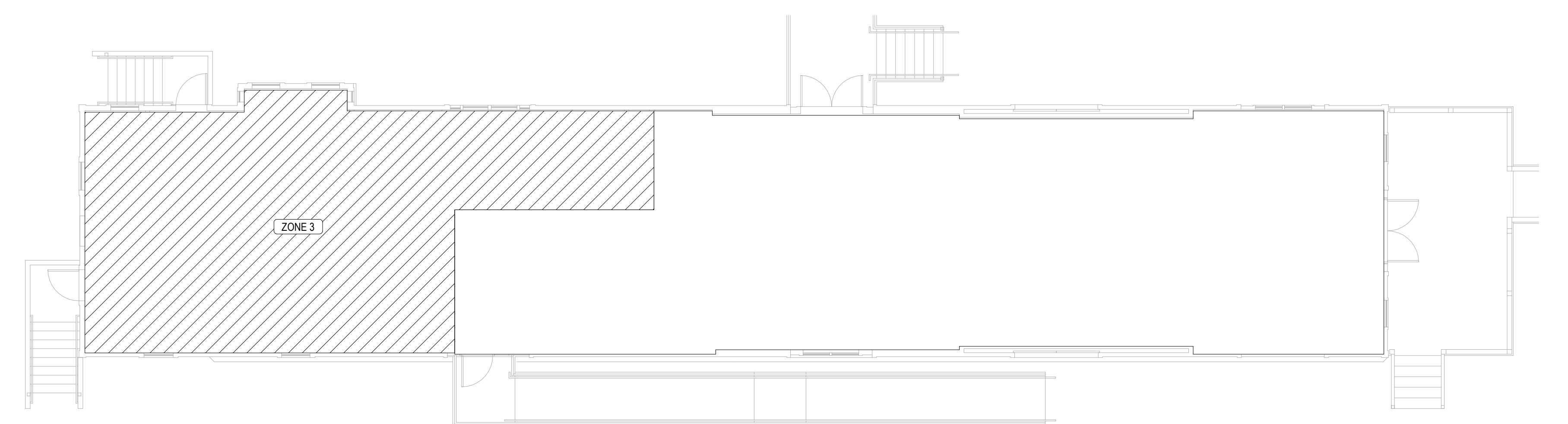
NOTES:
1. ZONE 1 AND ZONE 1A SHALL BE SERVED FROM THE SAME PRE-ACTION VALVE.
2. ZONE 2, ZONE 3, AND ZONE 3A SHALL BE SERVED FROM THE SAME PRE-ACTION VALVE.

FIRE PROTECTION GENERAL NOTES	
1.	PROVIDE A COMPLETE WET TYPE FIRE PROTECTION SYSTEM AS REQUIRED TO ACCOMMODATE THE FLOOR PLAN AND CEILING TYPES INCLUDING MAINS, BRANCHES, HEADS, VALVES, AND ACCESSORIES AS REQUIRED. THE SYSTEM SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS OF THE STATE BUILDING CODE, LOCAL FIRE DEPARTMENT, AND ALL FEDERAL, STATE, AND LOCAL AUTHORITIES, NFPA, AND FACTORY MUTUAL.
2.	THE SPRINKLER SYSTEM SHALL BE DESIGNED BASED UPON ACTUAL WATER FLOW TEST DATA OBTAINED AT OR NEAR THE JOB SITE.
3.	REFER TO REFLECTED CEILING PLANS FOR ADDITIONAL INFORMATION REGARDING SPRINKLER HEAD LOCATION AND PIPE, UNLESS NOTED OTHERWISE.
4.	THE FIRE PROTECTION CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR PROPER INSTALLATION OF THE FIRE PROTECTION SYSTEMS ALARM DEVICES INVOLVED WITH FIRE SPRINKLER SYSTEM.
5.	ALL SPRINKLER SYSTEM PIPING SHALL BE CONCEALED ABOVE THE SUSPENDED CEILING SYSTEM, UNLESS NOTED OTHERWISE. WRITTEN AUTHORIZATION SHALL BE OBTAINED FROM THE ARCHITECT PRIOR TO EXPOSING ANY PIPING IN ANY ROOM WHICH HAS A SUSPENDED CEILING.
6.	THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE ALL ADDITIONAL SPRINKLER HEADS AS REQUIRED TO ENSURE AN APPROVED FIRE PROTECTION SYSTEM AT NO ADDITIONAL COST TO THE OWNER.
7.	AUXILIARY DRAINS SHALL BE EXPOSED WITH 1" DRAIN VALVES. WHEN 5 OR MORE GALLONS ARE TRAPPED, THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE FIXED PIPING TO AN ADEQUATELY SIZED RECEPTOR WHICH IS CAPABLE OF ACCEPTING THE FULL FLOW OF THE DRAIN. WHEN LESS THAN 5 GALLONS ARE TRAPPED, A HOSE BIB SHALL BE PROVIDED AT THE DRAIN VALVE.
8.	AUXILIARY DRAINS SHALL NOT BE LOCATED ABOVE PLASTER OR GYPSUM BOARD CEILING SYSTEMS. ONLY BY A SPECIFIC WRITTEN INSTRUCTION FROM THE ENGINEER WILL A VARIANCE BE PROVIDED.
9.	AN INSPECTOR'S TEST CONNECTION SHALL BE PROVIDED FOR EACH FIRE SPRINKLER ZONE. THIS CONTRACTOR SHALL PROVIDE FIXED PIPING FROM THE TEST CONNECTION TO AN ADEQUATELY SIZED RECEPTOR WHICH IS CAPABLE OF ACCEPTING THE FULL FLOW OF THE TEST. EXTERIOR DISCHARGE OF THE TEST CONNECTION SHALL BE PERMITTED ONLY BY SPECIFIC WRITTEN INSTRUCTION FROM THE ENGINEER.
10.	SHOW ALL ROOM NUMBERS ON SHOP DRAWING PLANS.
11.	THE CONTRACTOR SHALL PERFORM A FIRE FLOW TEST IN ACCORDANCE WITH NFPA 291. A FIRE PROTECTION ENGINEER OR AN ENGINEER EXPERIENCED IN WATER FLOW TESTING SHALL PERFORM OR WITNESS THE REQUIRED FLOW TESTING AND SIGN THE REPORT PRIOR TO THE FIRST SPRINKLER SYSTEM SUBMITTAL.
12.	ROUTE SPRINKLER PIPING SUCH THAT IT DOES NOT RUN ABOVE ELECTRICAL PANELS, SWITCHGEAR, OR SIMILAR EQUIPMENT. SPRINKLER MAINS SHALL NOT RUN THROUGH ELECTRICAL OR COMMUNICATION ROOMS. SPRINKLER HEADS IN THESE ROOMS SHALL BE SERVED BY A DEDICATED BRANCH LINE FOR EACH ROOM.
13.	THIS DRAWING INDICATES A GENERAL PIPING ARRANGEMENT AND SUGGESTED SIGNS ONLY. THIS CONTRACTOR SHALL DETERMINE THE ACTUAL PIPE SIZING REQUIRED AND COORDINATE WORK WITH ALL OTHER TRADES TO AVOID CONFLICTS.
14.	THIS CONTRACTOR SHALL PREPARE HYDRAULIC CALCULATIONS BASED UPON THE CONFIGURATION OF THE ACTUAL SYSTEM DESIGN AS SHOWN ON THIS CONTRACTOR'S SHOP DRAWINGS.
15.	ALL PREACTION SYSTEMS SHALL BE PROVIDED WITH ALL REQUIRED DETECTOR DEVICES FROM THE PREACTION SYSTEM MANUFACTURER.

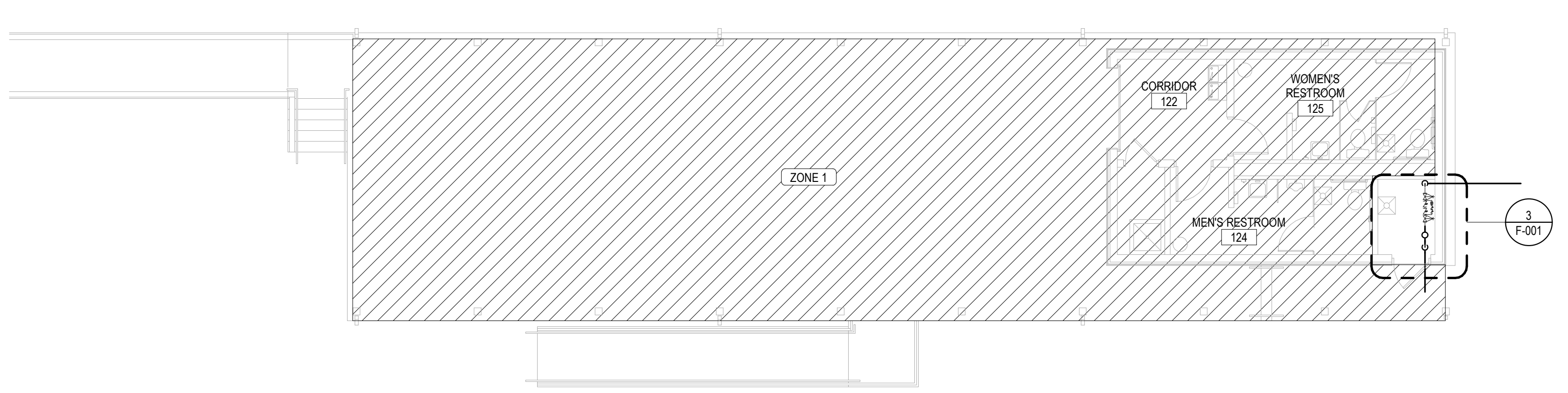
THE DEPOT BUILDING IS PART OF THE SPRING HOPE HISTORIC DISTRICT AND IS LISTED ON THE NATIONAL REGISTER OF HISTORIC PLACES.



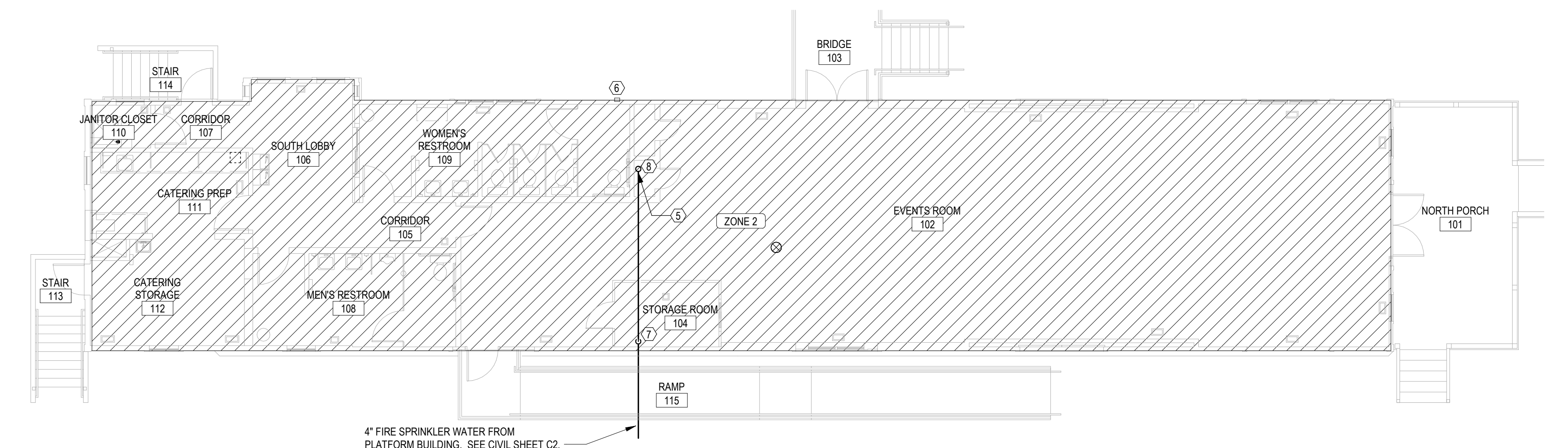
3 F-001 ENLARGED PLATFORM BUILDING RISER ROOM PLAN
1/2" = 1'-0"



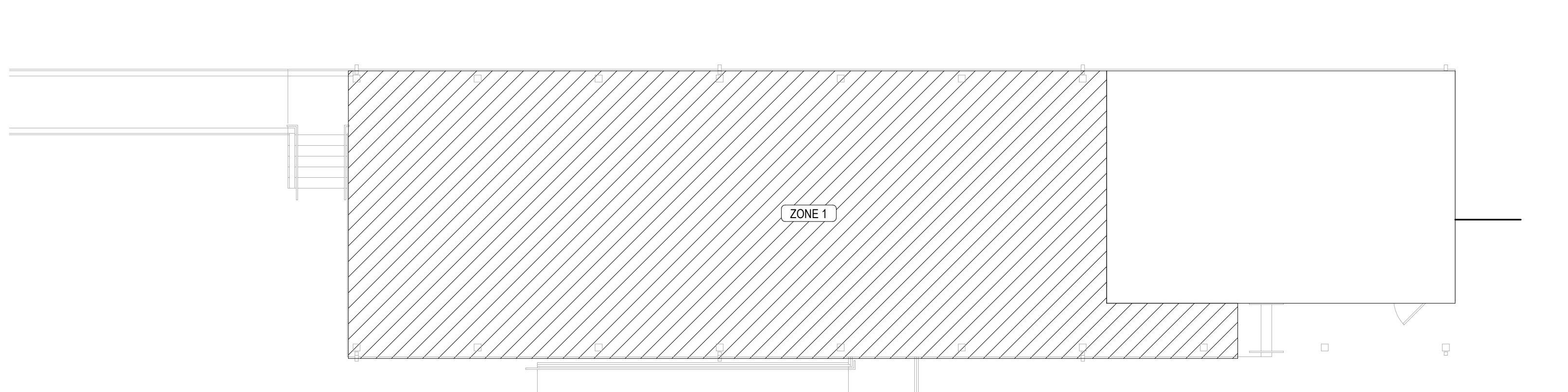
4 F-001 OVERALL DEPOT FIRE PROTECTION ATTIC PLAN
1/8" = 1'-0"



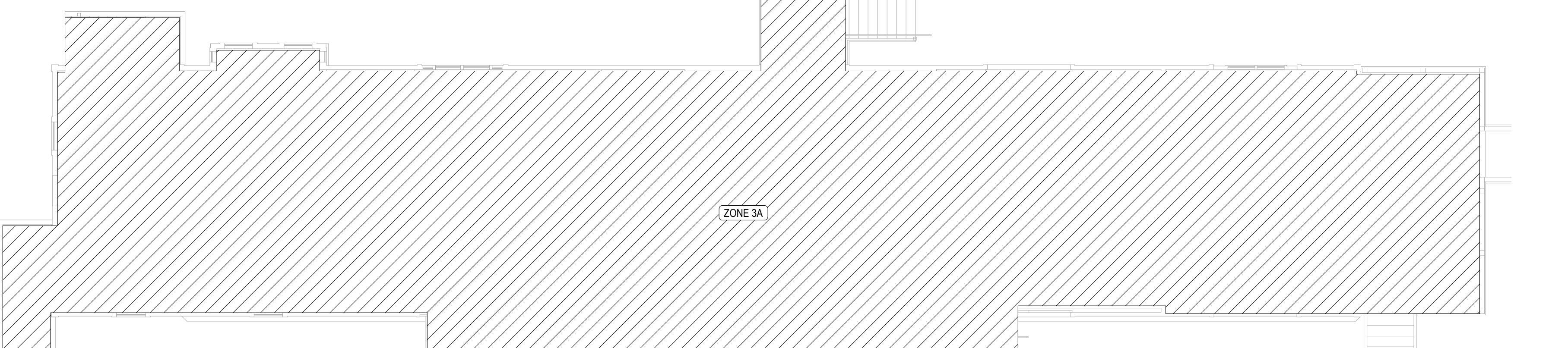
2 F-001 OVERALL PLATFORM BUILDING FIRE PROTECTION PLAN
1/8" = 1'-0"



1 F-001 OVERALL DEPOT FIRE PROTECTION PLAN
1/8" = 1'-0"




7 F-001 OVERALL PLATFORM FIRE PROTECTION BELOW FLOOR PLAN
1/8" = 1'-0"



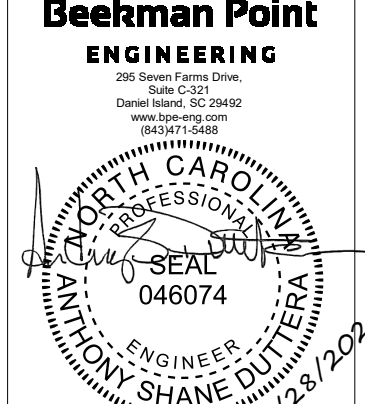
6 F-001 OVERALL DEPOT FIRE PROTECTION BELOW FLOOR PLAN
1/8" = 1'-0"

FIRE PROTECTION SHEET INDEX				
SHEET	NAME	REV	DESCRIPTION	DATE
F-001	FIRE PROTECTION TITLE SHEET	0	ISSUE FOR CONSTRUCTION	02-28-2025
F-001	FIRE PROTECTION DETAILS	0	ISSUE FOR CONSTRUCTION	02-28-2025


KEYNOTES	
1	DOUBLE CHECK DETECTOR BACKFLOW PREVENTER (BFP) EQUIVALENT TO ZURN MODEL 350DC.
2	4" DOUBLE INTERLOCK PRE-ACTION RISER SERVING PLATFORM BUILDING.
3	APPROXIMATE LOCATION OF WALL UNIT HEATER BY MECHANICAL CONTRACTOR.
4	4" SPRINKLER THROUGH SLAB WITH SLEEVE TO PREACTION VALVE. HEAT TRACE AND INSULATE EXPOSED PIPING IN CRAWLSPACE. DESIGN TO MAINTAIN 55F AT AN EXTERNAL TEMPERATURE OF 0F. (COORDINATE WITH ELECTRICAL) BASIS OF DESIGN CHROMALOX MODEL CPR, 8 WFT, 120V.
5	4" DOUBLE INTERLOCK PRE-ACTION RISER TO SERVE DEPOT BUILDING.
6	WATER MOTOR GONG MOUNT 8'-0" AFF.
7	4" SPRINKLER PIPE UP INTO CRAWLSPACE. HEAT TRACE AND INSULATE EXPOSED PIPING IN CRAWLSPACE. DESIGN TO MAINTAIN 55F AT AN EXTERNAL TEMPERATURE OF 0F. (COORDINATE WITH ELECTRICAL) BASIS OF DESIGN CHROMALOX MODEL CPR, 8 WFT, 120V.
8	4" SPRINKLER SUPPLY LINE FROM CRAWLSPACE TO RISER.



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EXPIRES 12/31/2025



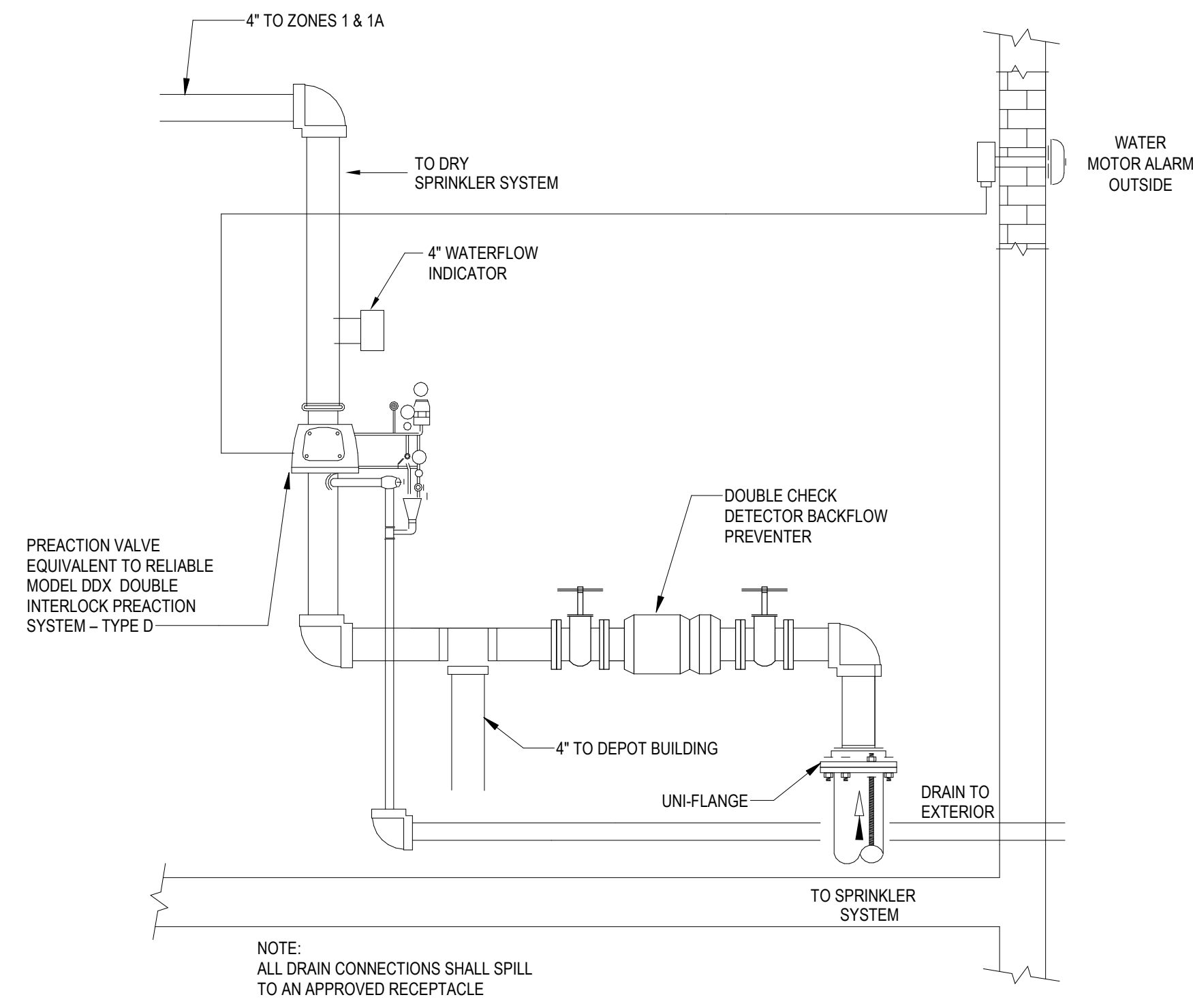
ALLIANCE ARCHITECTURE OF THE TRIAD
720 Coliseum Drive, Suite 112
Winston-Salem, NC 27101

DATE: 02-28-2025
REVISION: ISSUE FOR CONSTRUCTION
NO: 0

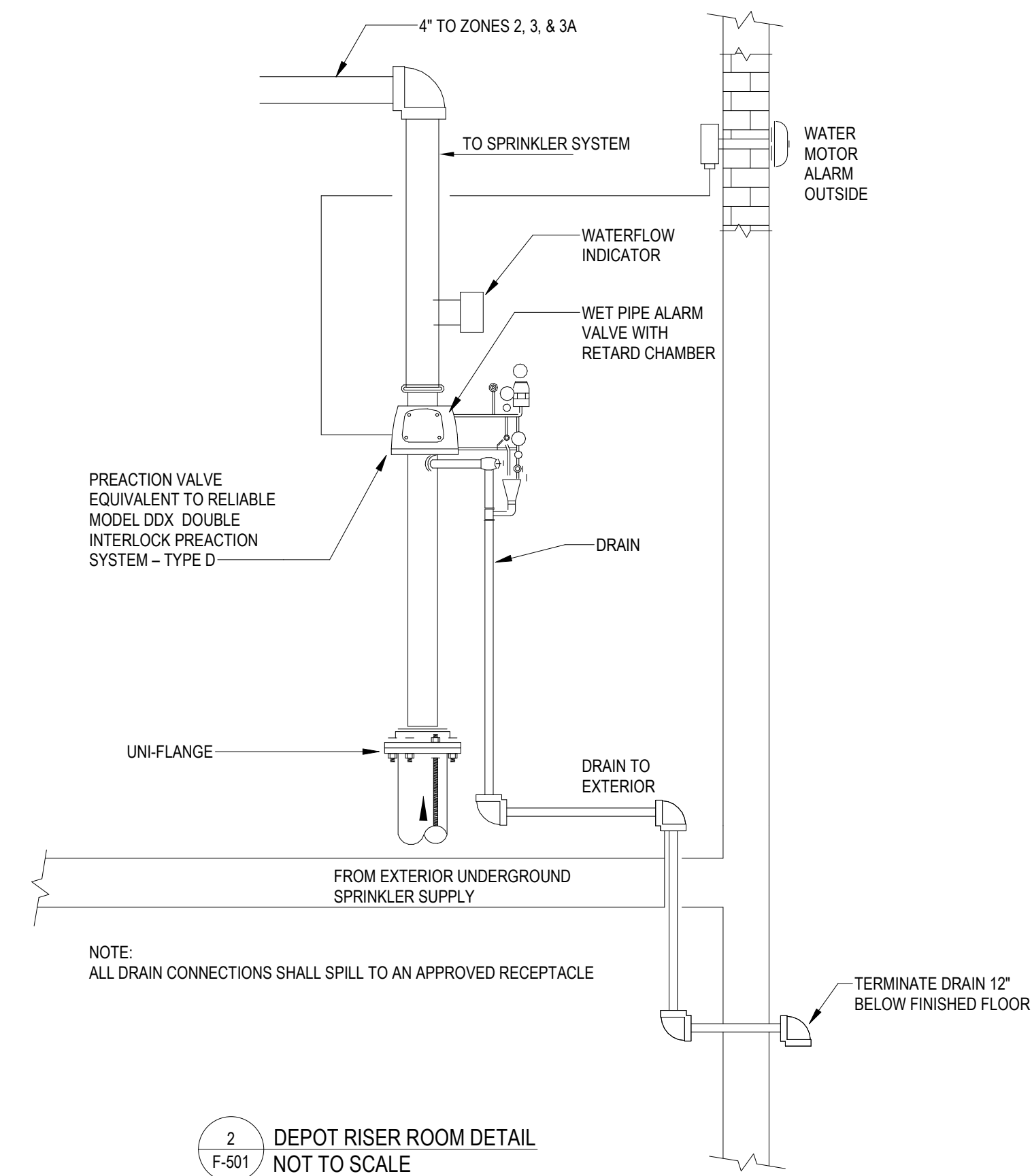
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SPRING HOPE RAILROAD DEPOT
Interior Renovation
101 SOUTH ASH STREET
SPRING HOPE, NORTH CAROLINA 27882

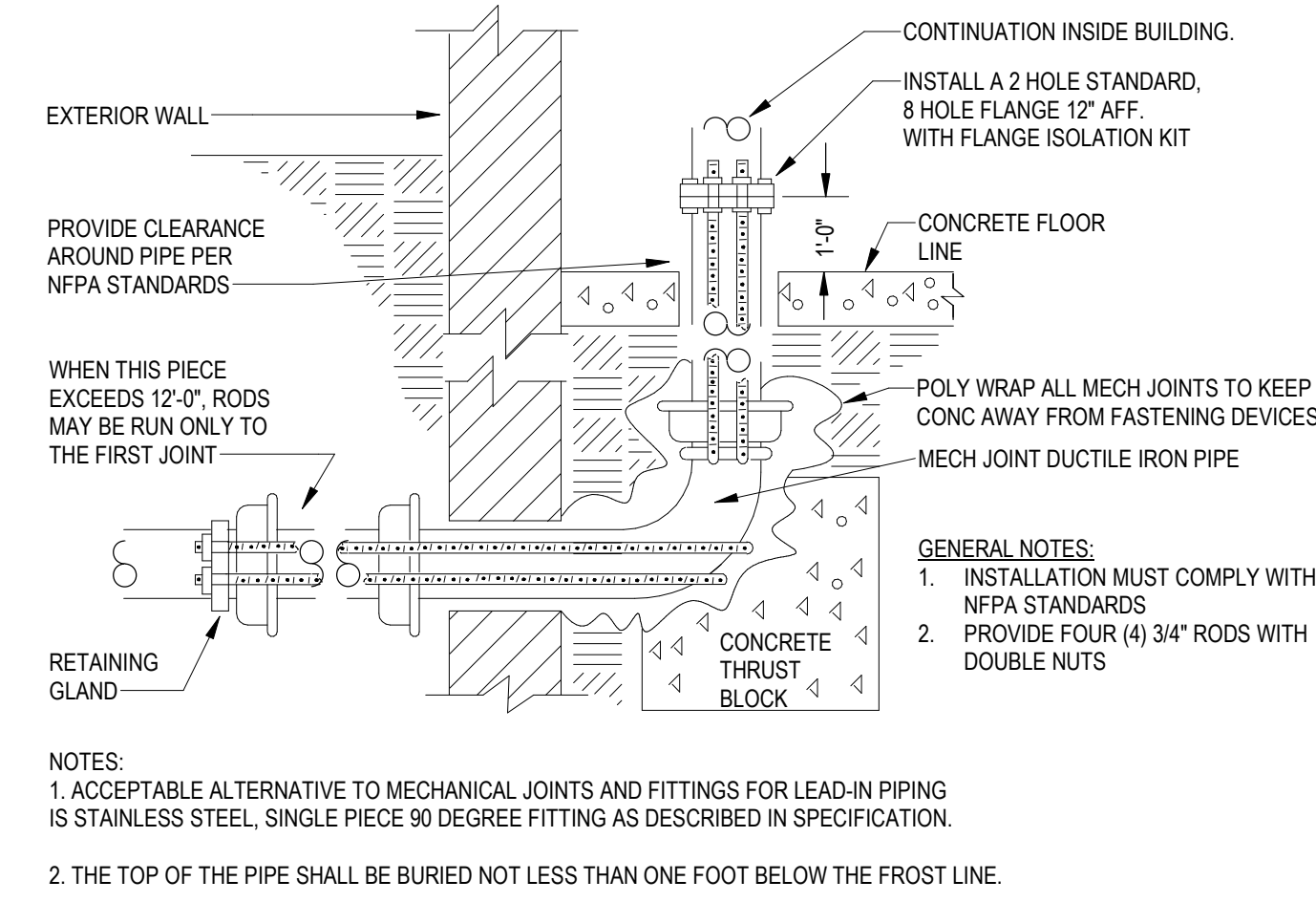
JOB: 240015
DATE: 02-28-2025
DRAWN: DP
SHEET: F-001



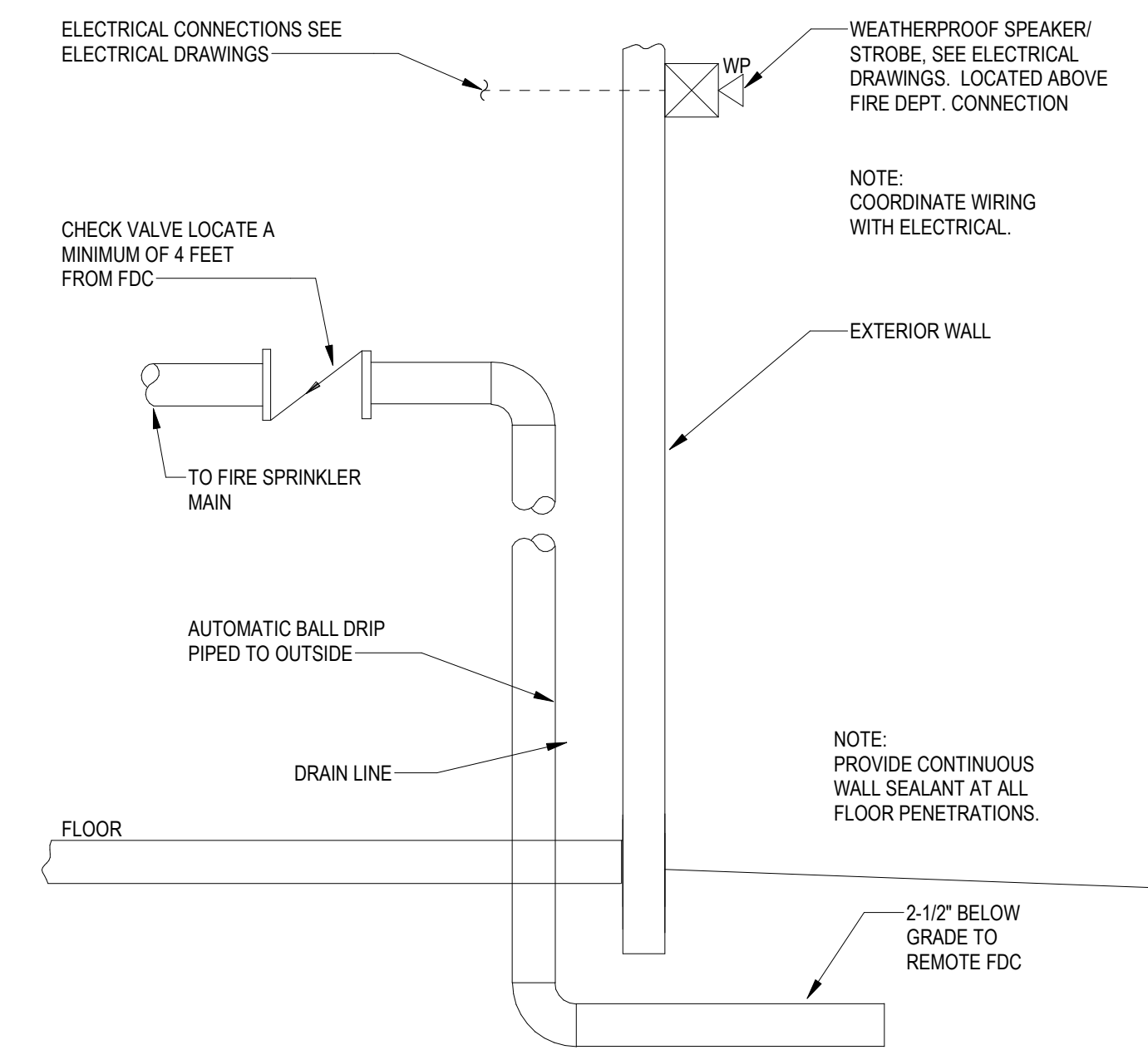
1 PLATFORM RISER ROOM DETAIL
NOT TO SCALE



2 DEPOT RISER ROOM DETAIL
NOT TO SCALE



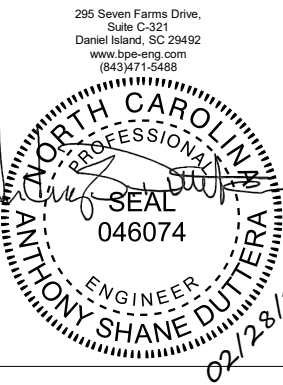
3 WATER SERVICE LINE EXTENSION DETAIL
NOT TO SCALE



4 FIRE DEPARTMENT CONNECTION DETAIL
NOT TO SCALE



Beetman Point
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2017/01/2025

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Winston-Salem, NC 27106



720 Coliseum Drive, Suite 112
Winston-Salem, NC 27106

DATE: 02-28-2025

REVISION: ISSUE FOR CONSTRUCTION

NO: 0

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ALLIANCE ARCHITECTURE OF THE TRIAD, PC

SPRING HOPE RAILROAD DEPOT Interior Renovation

101 SOUTH ASH STREET

SPRING HOPE, NORTH CAROLINA 27882

JOB: 240015

DATE: 02-28-2025

DRAWN: DP

SHEET

F-501

GENERAL PLAN SYMBOLS	
1 SHEET NAME	NUMBER OF DETAIL ON SHEET
P-001 SCALE	NUMBER OF SHEET WHERE DETAIL APPEARS
▲	PLAN REVISION NUMBER
⓪	KEYNOTE SYMBOL
?	CONTINUATION SYMBOL
●	POINT WHERE NEW CONNECTS TO EXISTING
NAME	ROOM NAME / NUMBER
▨	AREA BEING DEMOLISHED
▤	AREA NOT IN CONTRACT

ABBREVIATIONS			
Ø	ROUND	LVR	LOUVER
ABV	ABOVE	LWT	LEAVING WATER TEMPERATURE
AC	AIR CONDITIONING	MIA	MIXED AIR
AD	AREA DRAIN	MAX	MAXIMUM
ADD	ADDENDUM	MBH	ONE THOUSAND BTU PER HOUR
AFF	ADJOV FINISHED FLOOR	MCF	ONE THOUSAND CUBIC FEET
AJUE	ANNUAL FUEL UTILIZATION EFFICIENCY	MD	MOTORIZED DAMPER
ALT	ALTERNATE	MECH	MECHANICAL
AP	ACCESS PANEL	MFR	MANUFACTURER
ARCH	ARCHITECT/ARCHITECTURAL	MIN	MINIMUM
BFF	BELOW FINISHED FLOOR	MISC	MISCELLANEOUS
BLW	BELOW	MTR	MOTOR
BTU	BRITISH THERMAL UNITS	MUA	MAKE-UP AIR
BTUH	BRITISH THERMAL UNITS PER HOUR	NC	NOISE CRITERIA
CAP	CAPACITY	NC	NORMALLY CLOSED
CB	CATCH BASIN	NO	NOT IN CONTRACT
CFM	CUBIC FEET PER MINUTE	NO	NUMBER
CG	CLEAN OUT	NTS	NOT TO SCALE
CL	COLD WATER	O	OXYGEN
DB	DEGREE	O/A	OUTSIDE AIR
DB	DRY BULB	ORD	OVERFLOW ROOF DRAIN
DIA	DIAMETER	PRV	PRESSURE REDUCING VALVE
DN	DOWN	PLBG	PLUMBING
DW	DISTILLED WATER	PRESS	PRESSURE
EA	EACH	PRV	PRESSURE REDUCING VALVE
EAT	ENTERING AIR TEMPERATURE	PSI	POUNDS PER SQUARE INCH
ELEC	ELECTRICAL	PSIG	POUNDS PER SQUARE INCH GAUGE
EQUIP	EQUIPMENT	PWR	POWER
EWC	ELECTRIC WATER COOLER	R	DUCT RISER
EWT	ENTERING WATER TEMPERATURE	RA	RETURN AIR
EIA	EXHAUST AIR	RCP	RADIANT CEILING PANEL
EXIST	EXISTING	RD	ROOF DRAIN
F	DEGREES FAHRENHEIT	REC	RECESSED
FCO	FLOOR CLEAN OUT	RED	REDUCER
FD	FLOOR DRAIN	RH	RELATIVE HUMIDITY
FDC	FIRE DEPARTMENT CONNECTION	RIA	RELIEF AIR
FL	FLOOR	RM	ROOM
FO	FUEL OIL	RPM	REVOLUTIONS PER MINUTE
FOV	FUEL OIL VENT	RV	RETURN AIR
FOR	FUEL OIL RETURN	RF	SQUARE FOOT
FS	FUEL OIL SUPPLY	SA	SUPPLY AIR
FS	FEET PER MINUTE	SAN	SANITARY
FSS	FLOOR SINK	SAND	SANITARY DUCT
FT	FOOT/FEET	SD	SMOKE DAMPER
FTR	FAN TUBE RADIATION	SP	STANDPIPE
GAL	GALLON	SP	SURFACE PUMP
GM	GAS-FRED	SP	STATIC PRESSURE
GC	GENERAL CONTRACTOR	STM	STEAM
GF	GALLONS PER MINUTE	T	TEMPERATURE
GW	GREASE WASTE	TDR	TRENCH DRAIN
HB	HOSE BIB	TEMP	TEMPERATURE
HP	HORSE POWER	TEMP	TEMPERATURE
HTG	HEATING	TEMP	TEMPERATURE
HTR	HEATING	TEMP	TEMPERATURE
HW	HOT WATER	TYR	TYPE
HYD	HYDRANT	UG	UNDERGROUND
ID	INDIRECT	V	VACUUM
IN	INCH	V	VENT
INV	INVERT	VAV	VARIABLE AIR VOLUME
LB	POUND	VENT	VENTILATION
LBHR	POUNDS PER HOUR	VTR	VENT THROUGH ROOF
LAT	LEAVING AIR TEMPERATURE	W	WASTE
LP	LOW PRESSURE	WB	WET BULB
LP	LOW PRESSURE	WOD	WALL CLEAN OUT
LP	LOW PRESSURE	WH	WALL HYDRANT
UPG	LIQUEFIED PETROLEUM GAS		

EQUIPMENT ABBREVIATIONS			
AC	AIR CONDITIONING UNIT	ET	EXPANSION TANK
ACCU	AIR COOLING CONDENSING UNIT	EWH	ELECTRIC WATER HEATER
AHU	AIR HANDLING UNIT	FCU	FAN COIL UNIT
AS	AIR SEPARATOR	FP	FIRE PUMP
B	BOILER	GI	GREASE INTERCEPTOR
CH	CHILLER	GRV	GRAVITY ROOF VENTILATOR
CT	COOLING TOWER	HWP	HEATING WATER PUMP
CUN	CABINET UNIT HEATER	HUR	HEAT RECOVERY UNIT
CHWP	CHILLED WATER PUMP	PRV	PRESSURE REDUCING VALVE
DBP	DOMESTIC WATER BOOSTER PUMP	RE	RETURN EXHAUST FAN
DC	DUCT MOUNTED COIL	RTU	ROOF TOP UNIT
DCP	DOMESTIC WATER CIRCULATING PUMP	SP	SUMP PUMP
ED	EXHAUST FAN	UH	UNIT HEATER
EF	ELECTRIC DUCT COIL	WH	WATER HEATER

*NOTE:
ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET. THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

PLUMBING SYMBOLS	
2"	NOMINAL PIPE SIZE
—	ABOVE GROUND PIPING
—	BELOW GROUND PIPING
1/8" / 1/2" SLOPE	PIPE SLOPE (When Applicable)
—	EXISTING PIPE TO REMAIN
—	PIPE TO BE DEMOLISHED
CW	DOMESTIC - COLD WATER
NPW	NON-POTABLE WATER
S-CW	SOFT - COLD WATER
F-CW	FILTERED - COLD WATER
RO	REVERSE OSMOSIS WATER
HW	DOMESTIC - HOT WATER
HW 140"	140° DOMESTIC - HOT WATER
HW R 140"	HOT WATER - RECIRCULATION
HW R 140"	140° HOT WATER - RECIRCULATION
SS	SANITARY WASTE
—	SANITARY VENT
—	SANITARY WET VENT
—	COMBINATION DWV
—	CONDENSATE DRAIN
—	INDIRECT DRAIN
—	GREASE WASTE
—	GREASE VENT
—	OIL WASTE
—	AIR VENT
—	PUMP DISCHARGE
—	SOLAR HOT WATER - RETURN
—	SOLAR HOT WATER - SUPPLY
—	STORM DRAIN
—	STORM DRAIN - OVERFLOW
—	COMPRESSED AIR
—	NATURAL GAS
—	LIQUID PROPANE
—	PIPE RISE / DROP

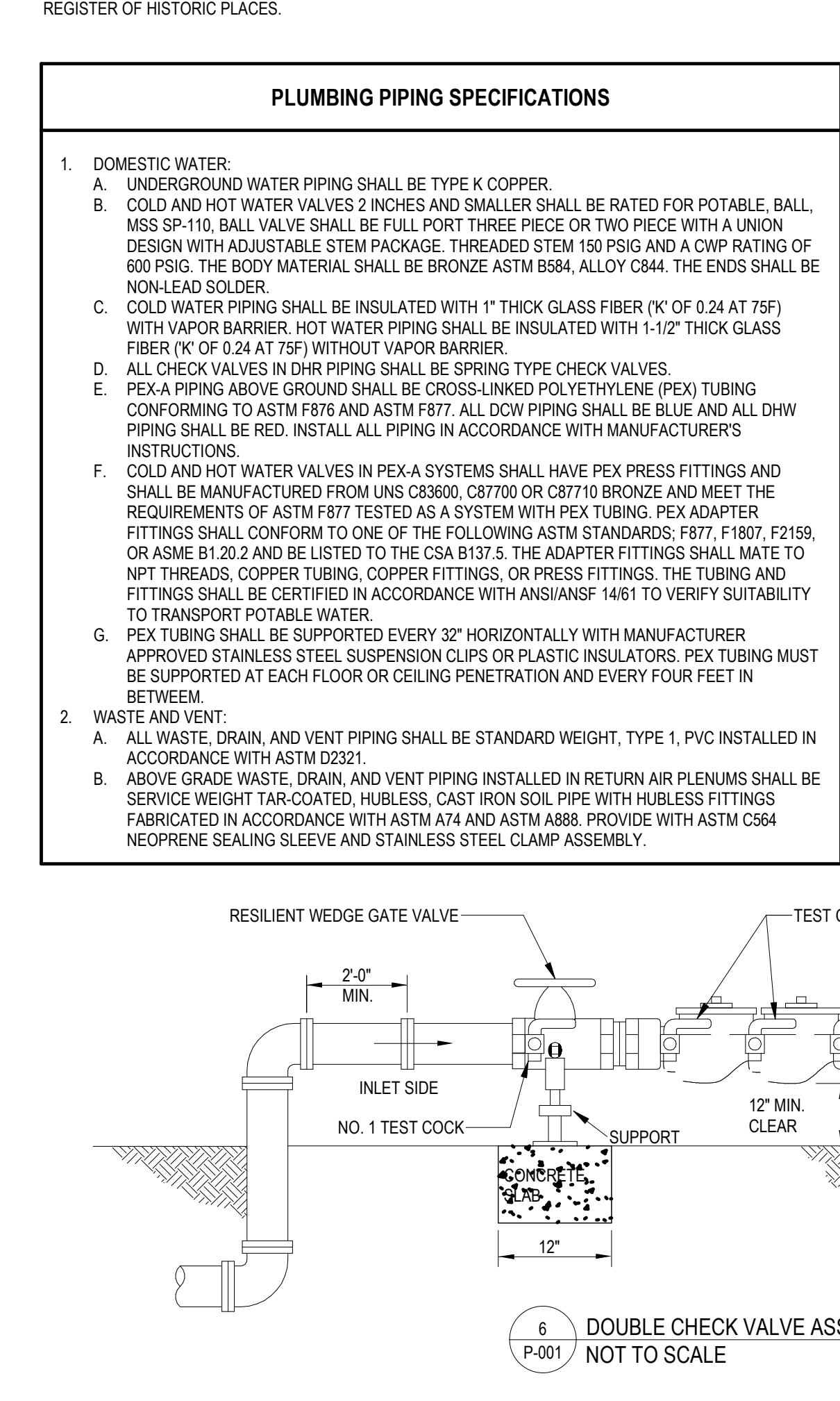
PIPE ACCESSORY NOTES	
FCO	CLEANOUT
2" B/W	SWING CHECK
2" C/C	CHECK VALVE
2" C/C	ALTERNATE CHECK VALVE
2" B/L	BALANCING VALVE
2" C/C	CIRCUIT SETTER
2" G	GATE VALVE
2" Q	QUICK OPENING VALVE
2" S/O	BALL VALVE
2" S	FLUID STRAINER
2" G/CNTR	EMERGENCY GAS SHUTOFF
2" P	PLUG VALVE
2" G/C	GAS SHUTOFF COCK
2" REG	GAS REGULATOR
2" TV	THERMOSTATIC VALVE
2" P	TRAP PRIMER
2" M-CNTR	ELEC. CONTROL VALVE
2" M-XTR	MIXING VALVE
2" M/M	EMERGENCY MIXER
2" PRV	PRESSURE REDUCING VALVE
2" METER	WATER METER
1 1/2" METER	IRRIGATION METER
2" DCV	DOUBLE CHECK VALVE
2" RZ	REDUCED PRESSURE ZONE

PLUMBING FIXTURE NOTES	
DESIGN SIZE	IDENTITY TYPE
2 FD-1	2 FD-3
2 FD-3	2 FD-3P
2 FD-3P	2 FD-7
2 FD-7	3 AD-1
3 AD-1	3 HD-1
3 HD-1	3 FD-4
3 FD-4	8 SD-12
8 SD-12	8 SD-1

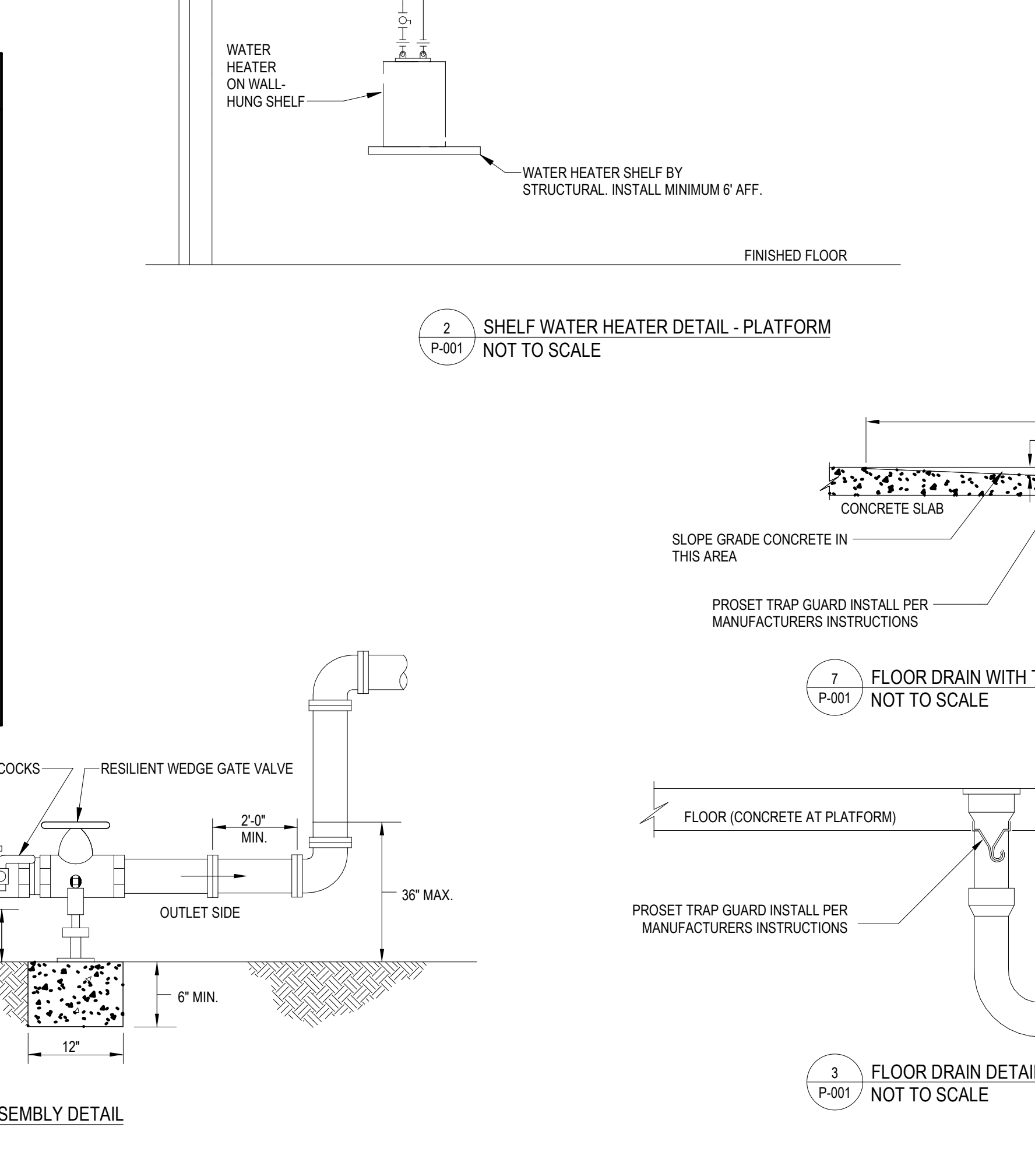
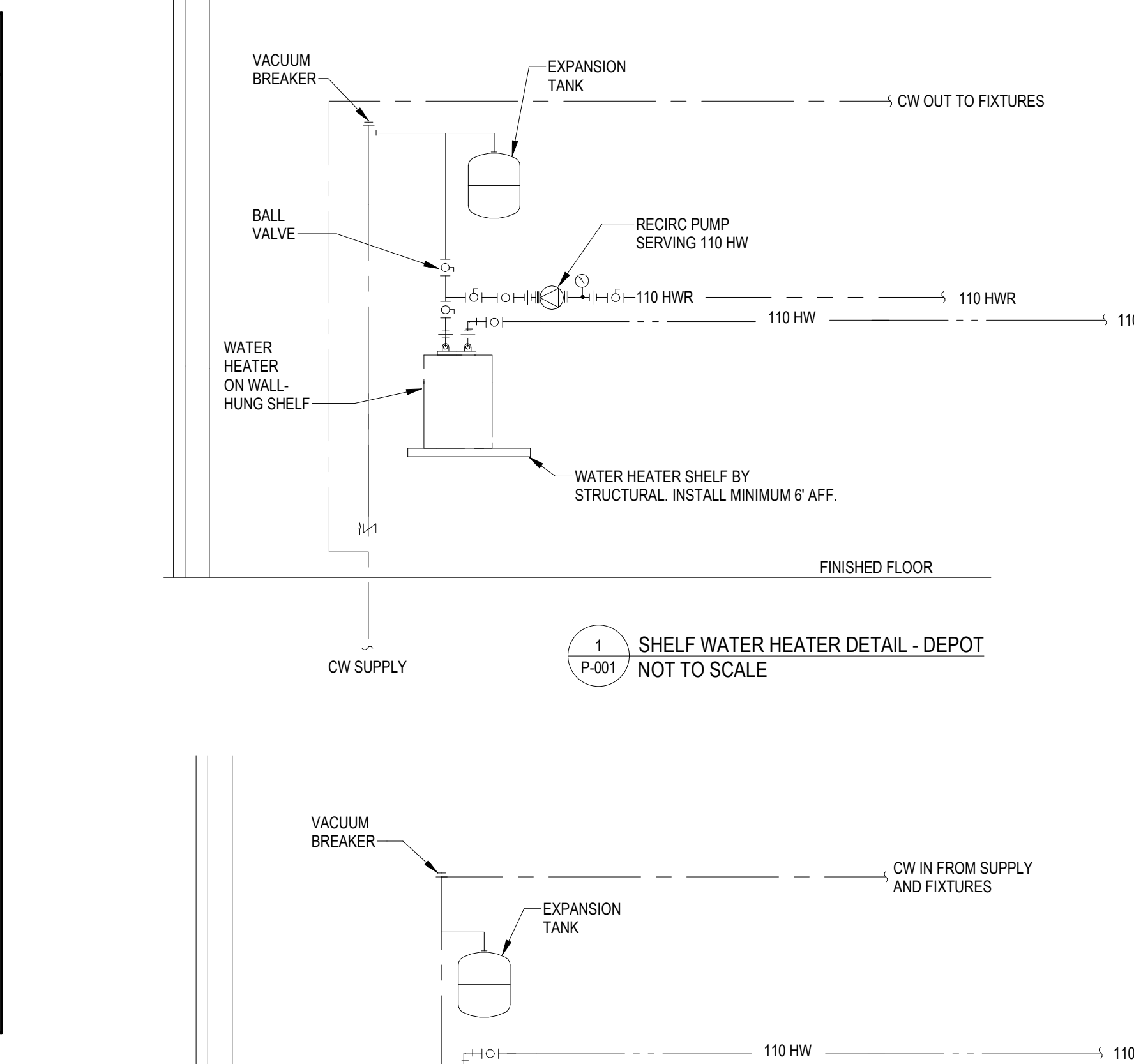
PLUMBING GENERAL NOTES

- BEFORE STARTING ANY WORK, VERIFY THE ADEQUACY, LOCATION, SIZE, AND AVAILABILITY OF ALL UTILITIES CONCERNED, INCLUDING SEWER INVERT ELEVATIONS, AND WATER PRESSURE.
- THESE PLANS ARE DIAGRAMMATIC IN NATURE AND SHALL NOT BE SCALED TO DETERMINE THE EXACT LOCATION OR EXTENT OF THE WORK. CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO CONSTRUCTION. QUANTITY OF ROUGH-IN'S SHOWN ON THE FLOOR PLANS MATCH SCHEDULED FIXTURE MODELS.
- THE CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES FOR CLEARANCES AND WORK INCLUDED PRIOR TO START OF WORK.
- ALL VENTS THRU ROOF SHALL BE MINIMUM OF TEN FEET FROM ANY FRESH AIR INTAKES.
- CLEANOUTS SHALL BE INSTALLED PER CODE REQUIREMENTS.
- PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE STOPPED. FIRE STOPPING SHALL BE AN APPROVED MATERIAL AND SHALL BE U.L. LISTED.
- COORDINATE WITH ELECTRICAL SECTION PRIOR TO ORDERING EQUIPMENT FOR AVAILABLE VOLTAGE AT EQUIPMENT LOCATIONS.
- ALL FIXTURES SHALL BE PROTECTED DURING CONSTRUCTION FROM ANY DAMAGE. UNFINISHED FIXTURES WILL NOT BE ACCEPTABLE UNDER ANY CONDITIONS.
- HANDICAPPED USE PLUMBING FIXTURES SHALL BE MOUNTED AT REQUIRED HEIGHTS AND WITH ALL RELATED ACCESSORIES AS REQUIRED BY THE ADMINISTRATIVE AUTHORITIES.
- ALL DOMESTIC WATER FIXTURES, PIPING VALVES, ETC. IN POTABLE WATER SYSTEMS SHALL COMPLY WITH HEALTH AND SAFETY CODES.
- ALL HOSE BIBS SHALL HAVE AN APPROVED VACUUM BREAKER.
- PROVIDE FLASHING AND/OR COUNTER FLASHING OF ALL EXTERIOR PENETRATIONS.
- UNLESS SPECIFICALLY SHOWN ON THESE PLANS, NO STRUCTURAL MEMBER SHALL BE CUT, DRILLED, NOTCHED OR WELDED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER.
- WATER SUPPLY PIPING BELOW GRADE UNDER CONCRETE SLABS SHALL BE INSTALLED SUCH THAT NO JOINTS ARE LOCATED BENEATH THE SLAB. WHERE NECESSARY, PROVIDE OFFSET PANEL IN FINISHED WALL OR SIMILAR TO ACCOMMODATE JOINTS. PROVIDE LOCKING ACCESS PANEL UNLESS DIRECTED OTHERWISE. COORDINATE FINISH WITH ARCHITECT.
- HANGERS, CLAMPS AND GUIDES FURNISHED FOR SUPPORT OF NON-METALLIC PIPES SHALL BE PADDED WITH 1/8" THICK RUBBER, NEOPRENE, OR SOFT RESILIENT CLOTH.
- WATER CLOSETS FOR PUBLIC USE ARE TO BE ELONGATED BOWLS WITH OPEN FRONT TOILET SEAT.
- WASTE & VENT: EACH SECTION SHALL BE FILLED WITH WATER, BUT NO SECTION SHALL BE TESTED WITH LESS THAN A TEN-FOOT HEAD OF WATER. THE WATER SHALL BE KEPT IN THE SYSTEM OR IN THE PORTION UNDER TEST, FOR NOT LESS THAN FIFTEEN MINUTES BEFORE INSPECTION STARTS.
- WATER: UPON COMPLETION OF A SECTION OR OF THE ENTIRE HOT AND COLD WATER SUPPLY SYSTEM, IT SHALL BE TESTED UNDER A WATER PRESSURE NOT LESS THAN THE WORKING PRESSURE UNDER WHICH IT IS TO BE USED. THE WATER USED FOR TESTS SHALL BE OBTAINED FROM A POTABLE SOURCE OF SUPPLY. EXCEPT FOR PLASTIC PIPING, A FIFTY PSI AIR PRESSURE SHALL BE PERMITTED TO BE SUBSTITUTED FOR THE WATER TEST, IN EITHER METHOD OF TEST, THE PIPING SHALL WITHSTAND THE TEST WITHOUT LEAKING FOR A PERIOD OF NOT LESS THAN FIFTEEN MINUTES.
- THE DOMESTIC WATER PIPING SYSTEM SHALL BE FLUSHED WITH CLEAN, POTABLE WATER UNTIL DIRTY WATER DOES NOT APPEAR AT THE POINTS OF OUTLET. THE SYSTEM SHALL BE DISINFECTED WITH CHLORINE PER THE REQUIREMENTS OF AWWA C651. FOLLOWING DISINFECTION THE SYSTEM SHALL BE FLUSHED WITH CLEAN POTABLE WATER UNTIL THE CHLORINE IS PURGED FROM THE SYSTEM.

THE DEPOT BUILDING IS PART OF THE SPRING HOPE HISTORIC DISTRICT AND IS LISTED ON THE NATIONAL REGISTER OF HISTORIC PLACES.



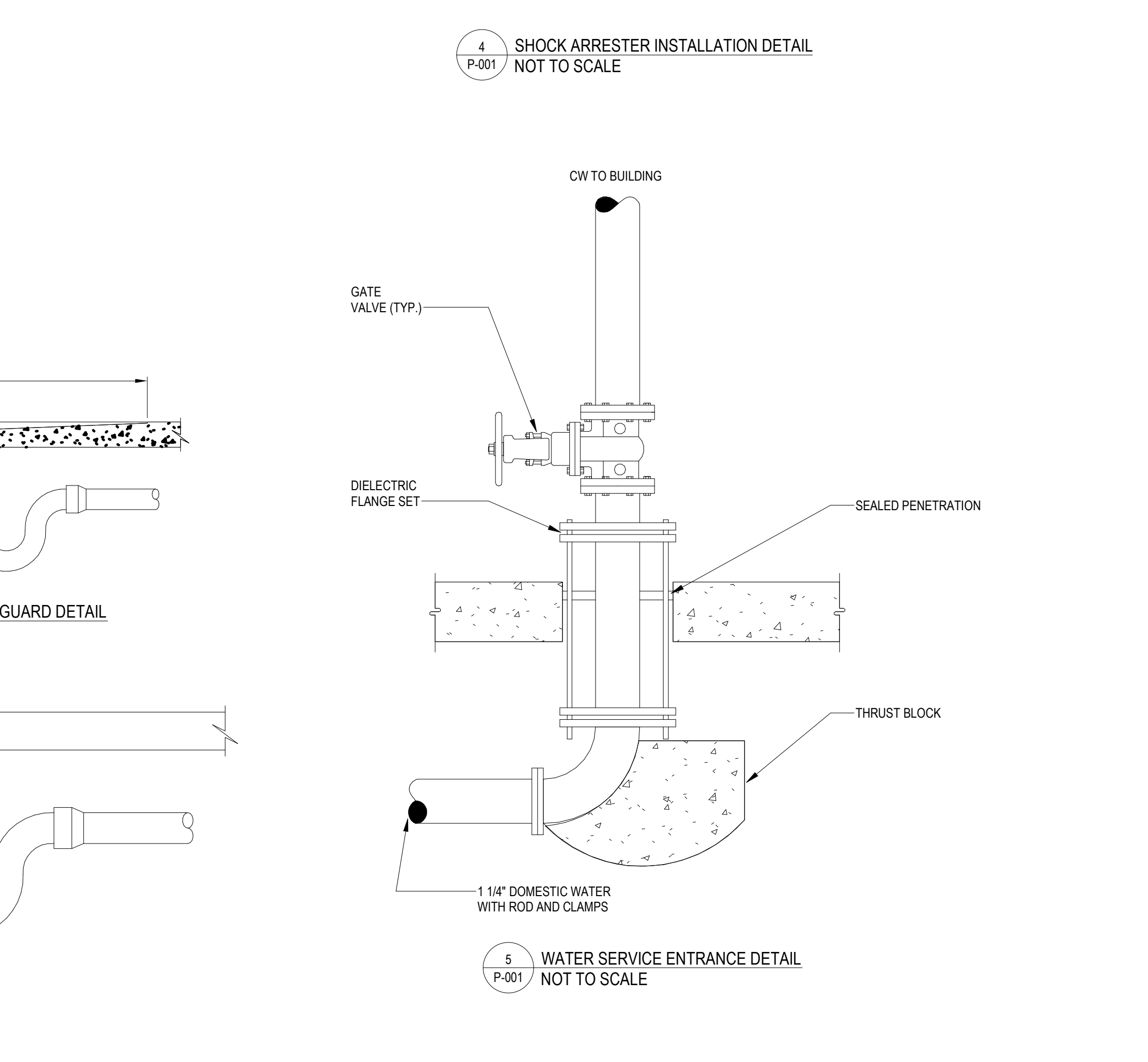
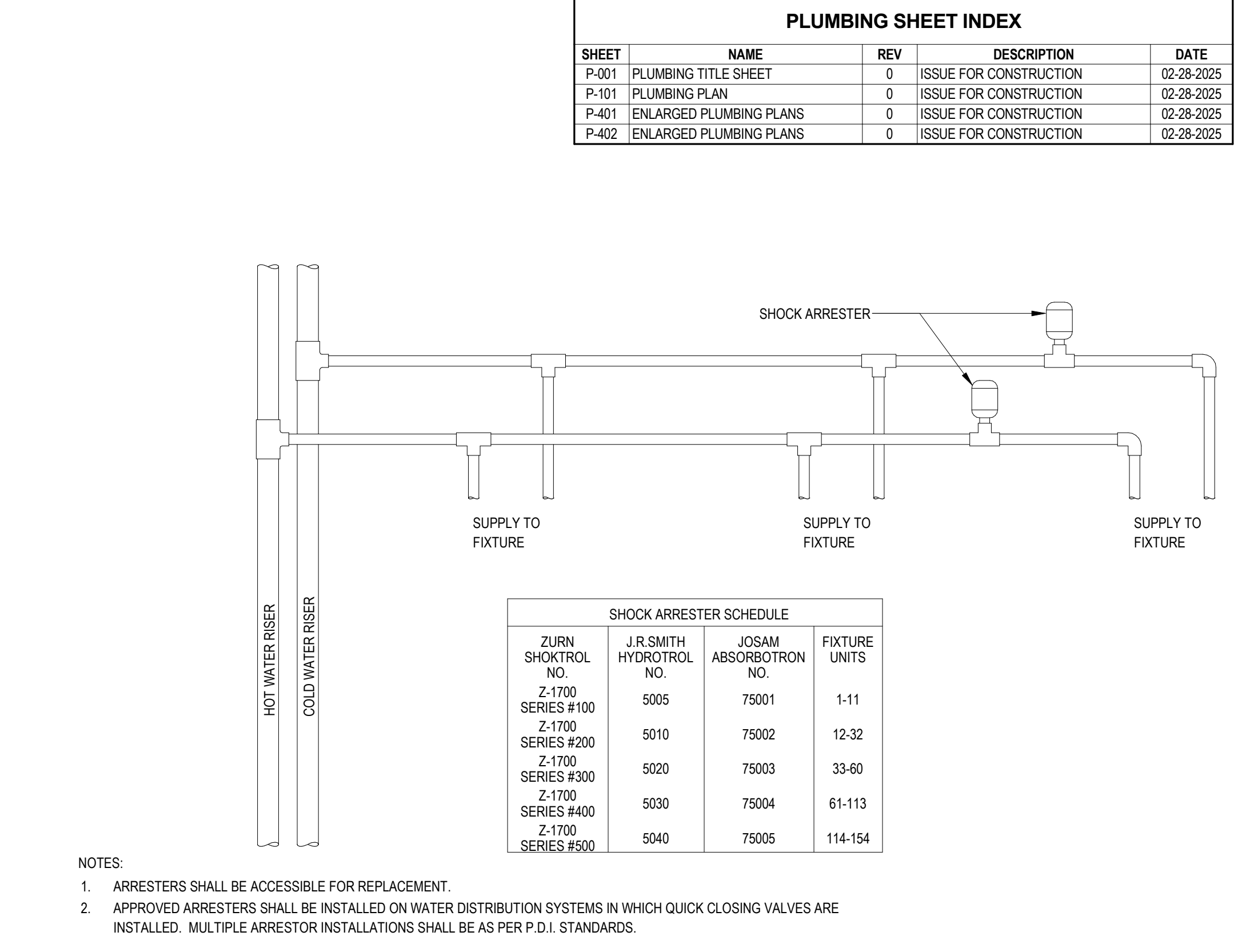
ELECTRIC WATER HEATER SCHEDULE																		
IDENTITY	DESCRIPTION	MANUFACTURER	MODEL	PRODUCT TYPE	DOMESTIC PIPING SIZE	TEMP. RANGE	COLD	HOT	TEMP. RISE	RECOVERY CAPACITY	STORAGE CAPACITY	UNIT HAS ELECTRIC HEAT	ELECTRIC HEAT	ELECTRICAL	SPECIFICATION			
WH-01	WATER HEATER	AO SMITH	DEL-20	STORAGE	1"	50 F - 120 F	50 F	120 F	70 F	24 GPH	20 gal	Yes	6.0 kW	16.7 A	1	208 V	3	PROVIDE EXPANSION TANK WITH MINIMUM 1.0 GALLON ACCEPTANCE VOLUME. TOTAL EQUIPMENT WEIGHT 250 POUNDS.
WH-02	WATER HEATER	AO SMITH	DEL-20	STORAGE	3/4"	50 F - 120 F	50 F	120 F	70 F	24 GPH	20 gal	Yes	6.0 kW	16.7 A	1	208 V	3	PROVIDE EXPANSION TANK WITH MINIMUM 1.0 GALLON ACCEPTANCE VOLUME. TOTAL EQUIPMENT WEIGHT 250 POUNDS.



FLOOR DRAIN SCHEDULE													
TYPE	IDENTITY	MANUFACTURER	MODEL	PRODUCT TYPE	BODY MATERIAL	STRAINER TYPE	VENT CONNECTION	DRAIN SIZE	DWV TEE	VENT SIZE	PRIMER TAP	INCLUDE	PRODUCT SPECIFICATION
FD-1	ZURN	EZ-5	ROUND STRAINER	CAST IRON	NICKEL BRONZE	Yes	3"	3"	2"	No	EPOXY COATED CAST IRON FLOOR DRAIN, REVERSIBLE CLAMPING COLLAR WITH PRIMARY & SECONDARY WEEPHOLES, ADJUSTABLE ROUND HEEL PROOF NICKEL BRONZE STRAINER, AND NO HUB OUTLET.		

PLUMBING FIXTURE SCHEDULE																
ID	DESCRIPTION	MANUFACTURER	MODEL	PRODUCT TYPE	INSTALLATION TYPE	MATERIAL DESCRIPTION	FINISH	TRIM	MANUFACTURER MN	TYPE	COLD WATER	HOT WATER	PIPING SIZE(S)	DRAIN SIZE	VENT SIZE	PRODUCT SPECIFICATION
WB-1	HOSE BIBB	WOODFORD	24	HOSE BIBB	WALL HUNG	STAINLESS STEEL	CHROME	INCLUDED	FLAT 8300A	MANUAL	Yes	No	1/2"	2"	2"	OPERATING KEY: LEAD-FREE CERAMIC DISC, 3/4" MALE HOSE CONN. ANTI-SIPHON VACUUM BREAKER. INSTALL ON END OF PIPE.
JB-1	JANITOR SINK	FIAT	T58-200	MOP BASIN	FLOOR SET	STAINLESS STEEL	MOLDED STONE	INCLUDED	FLAT 8300A	MANUAL	Yes	Yes	1/2"	2"	2"	24"X24"X12" PROVIDE FAUCET MODEL 830A; HOSE AND BRACKET MODEL 832A; STRAINER DRAIN AND P-TRAP.
LAV-1	LAVATORY	ZURN	Z5350	WALL HUNG	CONCEALED HANGER	WHITE VITREOUS CHINA	WHITE	ZURN / Z8946-1-NT	MANUAL	Yes	Yes	1/2"	1 1/2"	2"	2"	WHITE; VITREOUS CHINA; FAUCET Z7440-XL, Z8743-PC GRID DRAIN; Z8700-PC CAST BRASS P-TRAP WITH CLEANOUT; Z8804 ANGLE STOP VALVES.
LAV-1A	LAVATORY	ZURN	Z5350	WALL HUNG ADA	CONCEALED HANGER	WHITE VITREOUS CHINA	WHITE	ZURN / Z8946-1-NT	MANUAL	Yes	Yes	1/2"	1 1/2"	2"	2"	WHITE; VITREOUS CHINA; FAUCET Z7440-XL, Z8743-PC GRID DRAIN; Z8700-PC CAST BRASS P-TRAP WITH CLEANOUT; Z8804 ANGLE STOP VALVES. MOUNT AT ADA COMPLIANT HEIGHT.
LAV-2A	LAVATORY	ACORN	ELPS1	WALL HUNG ADA	CONCEALED HANGER	STAINLESS STEEL	STAINLESS STEEL	INCLUDED	MANUAL	Yes	Yes	1/2"	1 1/2"	2"	2"	STAINLESS STEEL SW900-F50 FAUCET; DRAIN INCLUDED; SW900-PT P-TRAP; ZURN Z8804 ANGLE STOP VALVES. MOUNT AT ADA COMPLIANT HEIGHT.
S-1	SINK	ELKAY	LR2522SC	SINGLE BOWL	DROP-IN	STAINLESS STEEL	STAINLESS STEEL	INCLUDED	MANUAL	Yes	Yes	1/2"	1 1/2"	2"	2"	SINGLE COMPARTMENT, ADA COMPLIANT, SELF-RIMMING, 18 GAUGE, DOUBLE LEVER SWIVEL FAUCET, INCLUDED BASKET STRAINER, P-TRAP, TAILPIECES, SUPPLIES AND STOPS. INSULATE WATER AND WASTE TO MEET ADA REQUIREMENTS. MOUNT AT ADA COMPLIANT HEIGHT.
U-1	URINAL	ZURN	Z5758	WALL HUNG ADA	WALL HUNG	WHITE VITREOUS CHINA	WHITE	Z6003AV	MANUAL	Yes	No	3/4"	2"	2"	2"	WALL HUNG URINAL WITH WASHOUT ACTION, TOP SPUD, SIZE 18" WITH INTEGRAL EXTENDED SHIELDS SUPPORTED BY THROUGH GOING BOLTS AND C.P. NUTS. MANUAL ACTIVATED FLUSHMETER. MOUNT AT ADA COMPLIANT HEIGHT.
U-2A	URINAL	ACORN	1709HEU-FVL	WALL HUNG ADA	WALL HUNG	STAINLESS STEEL	STAINLESS STEEL	INCLUDED	MANUAL	Yes	No	3/4"	2"	2"	2"	WALL HUNG HIGH EFFICIENCY URINAL, TOP SPUD, SIZE 17" TO COMPLY WITH ANSI, ADA, AND UFAS REQUIREMENTS. MANUAL LEVER HANDLE FLUSH VALVE (FVL) ACTIVATED. MOUNT AT ADA COMPLIANT HEIGHT.
WC-1	WATER CLOSET	AMERICAN STANDARD	215FC.004	TANK	FLOOR SET	WHITE VITREOUS CHINA	WHITE	4188A.064	COVER	Yes	No	1/2"	3"	2"	2"	ELONGATED FLOOR MOUNTED TANK TYPE WATER CLOSET, WITH CHURCH 295CT ELONGATED OPEN FRONT SEAT. WITH TANK COVER LOCKING DEVICE. PROVIDE A 1/4" BRASS BALL VALVE AT WALL CONNECTION.
WC-1A	WATER CLOSET	AMERICAN STANDARD	215FC.004	TANK	FLOOR SET	WHITE VITREOUS CHINA	WHITE	4188A.064	COVER	Yes	No	1/2"	3"	2"	2"	ELONGATED FLOOR MOUNTED TANK TYPE WATER CLOSET, WITH CHURCH 295CT ELONGATED OPEN FRONT SEAT. WITH TANK COVER LOCKING DEVICE. PROVIDE A 1/4" BRASS BALL VALVE AT WALL CONNECTION. MOUNT AT ADA COMPLIANT HEIGHT.
WC-2	WATER CLOSET	SANTAL	SN-1112A-98	TANK	FLOOR SET	STAINLESS STEEL	STAINLESS STEEL	INCLUDED	MANUAL	Yes	No	1/2"	3"	2"	2"	ELONGATED FLOOR MOUNTED TANK TYPE WATER CLOSET, WITH INCLUDED ELONGATED OPEN FRONT SEAT. LH FLUSH LEVER. PROVIDE A 1/4" BRASS BALL VALVE AT WALL CONNECTION. SCREWED IN TANK COVER.
WC-2A	WATER CLOSET	SANTAL	SN-1112A-98	TANK	FLOOR SET	STAINLESS STEEL	STAINLESS STEEL	INCLUDED	MANUAL	Yes	No	1/2"	3"	2"	2"	ELONGATED FLOOR MOUNTED TANK TYPE WATER CLOSET, WITH INCLUDED ELONGATED OPEN FRONT SEAT. LH FLUSH LEVER. PROVIDE A 1/4" BRASS BALL VALVE AT WALL CONNECTION. SCREWED IN TANK COVER. MOUNT AT ADA COMPLIANT HEIGHT.
WF-1	WATER FOUNTAIN	HAWS	TYR-1501	DRINKING FOUNTAIN	WALL HUNG	WHITE ENAMELED IRON	WHITE	INCLUDED	MANUAL	Yes	No	1/2"	1 1/4"	2"	2"	DUAL LEVEL WALL HUNG WATER FOUNTAIN. THE UNIT SHALL INCLUDE SELF CLOSING EASY TOUCH FRONT PUSHBAR CONTROLS. SAFETY BUBBLER, FULLY AUTOMATIC, COMPLETE AND READY TO OPERATE. PROVIDE HAWS MODEL HCR8, 115V/1PH, 5 AMPS.
WF-2	WATER FOUNTAIN	ELKAY	VRCLDDMWSK	DRINKING FOUNTAIN	WALL HUNG	STAINLESS STEEL	STAINLESS STEEL	INCLUDED	MANUAL	Yes	No	1/2"	1 1/4"	2"	2"	DUAL LEVEL WALL HUNG WATER COOLER WITH BOTTLE FILLING STATION. THE UNIT SHALL BE COMPLETE WITH CABINET, MOUNTING FRAME, SELF CLOSING EASY TOUCH SIDE AND FRONT PUSHBAR CONTROLS, FLEXIGUARD SAFETY BUBBLER, NON-REFRIGERATED, COMPLETE AND READY TO OPERATE.

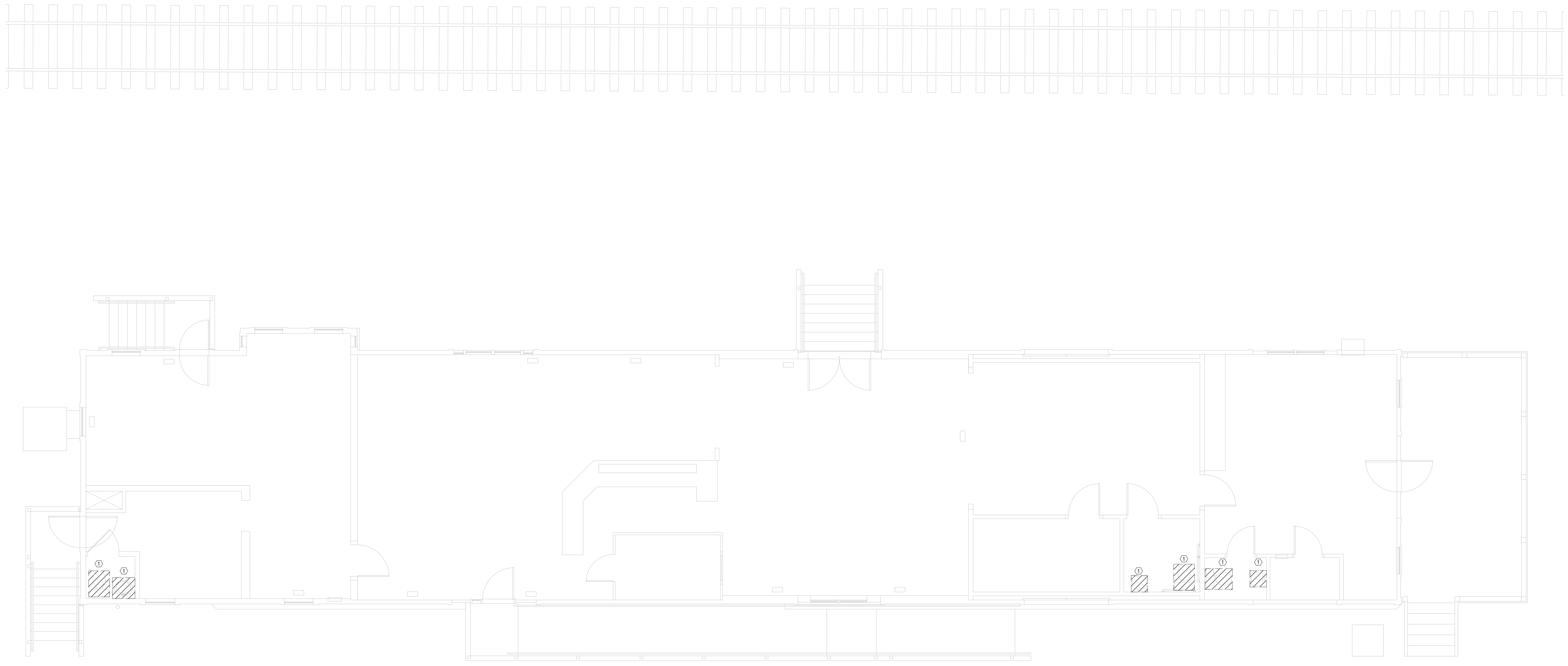
DOMESTIC CIRCULATOR PUMP SCHEDULE															
IDENTITY	MANUFACTURER	MODEL	PRODUCT TYPE	FLOW	HEAD	RPM	DESIGN PIPE SIZE	CONNECTIONS	DISCHARGE	POWER	FLA	ELECTRICAL	VOLTAGE	PHASE	SPECIFICATION
DCP-01	BELL AND GOSSETT	INB-10S/LW	INLINE	5.0 GPM	12.7 FT	2800	1/2"	1/2"	1/2"	52 W	1.8 A	115 V	1	IMPELLER TYPE: NORVYL, CONSTRUCTION: LEAD-FREE BRONZE. SERVES WH-01.	



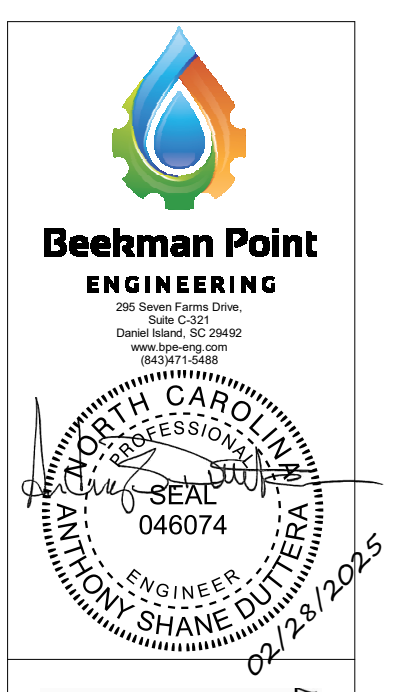
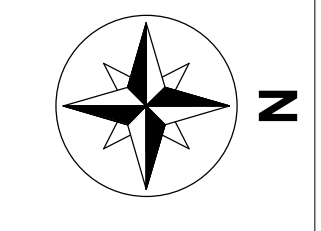
GENERAL NOTES											
1	ARRESTERS SHALL BE ACCESSIBLE FOR REPLACEMENT.										
2	APPROVED ARRESTERS SHALL BE INSTALLED ON WATER DISTRIBUTION SYSTEMS IN WHICH QUICK CLOSING VALVES ARE INSTALLED. MULTIPLE ARRESTER INSTALLATIONS SHALL BE AS PER P.D.I. STANDARDS.										

Beetman Point ENGINEERING
Professional Engineer
046074
02/28/2025
Ph. 336-722-4447
Winston-Salem, NC 27105</

KEYNOTES	
1	DEMOLISH ALL FIXTURES AND PIPING BACK TO BUILDING INLET.



1 OVERALL PLUMBING DEMO PLAN
PD-101 1/4" = 1'-0"



Beetman Point
ENGINEERING
720 Coliseum Drive, Suite 112 | Winston-Salem, NC 27106 | Ph. 336-722-4447

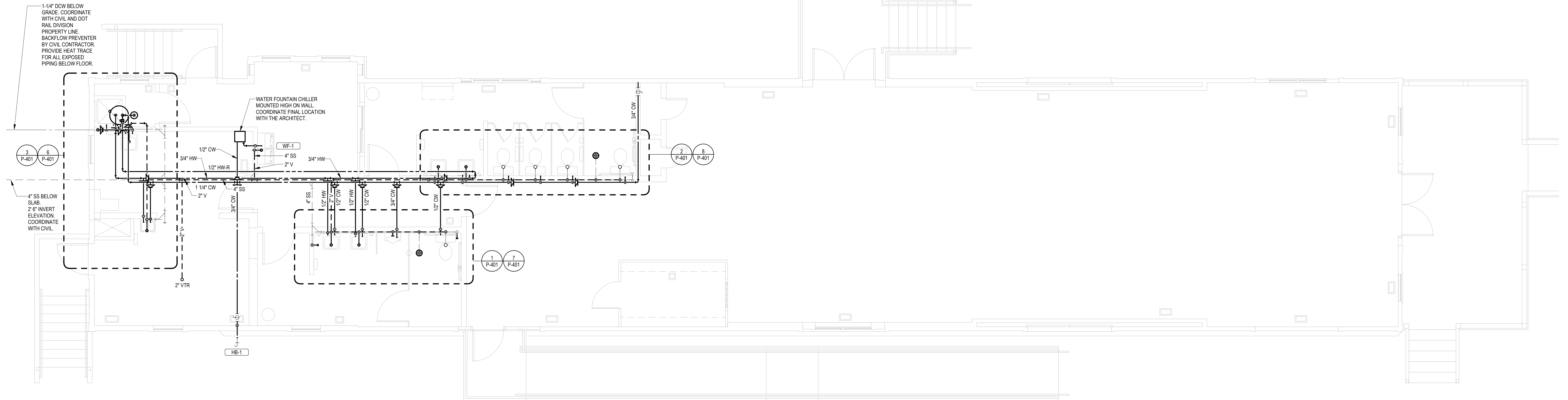
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DATE	02-28-2025
REVISION	ISSUE FOR CONSTRUCTION
NO	0
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SPRING HOPE
RAILROAD DEPOT
Interior Renovation
101 SOUTH ASH STREET
SPRING HOPE, NORTH CAROLINA 27882

JOB	240015
DATE	02-28-2025
DRAWN	JS
SHEET	

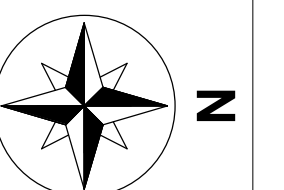
PD-101



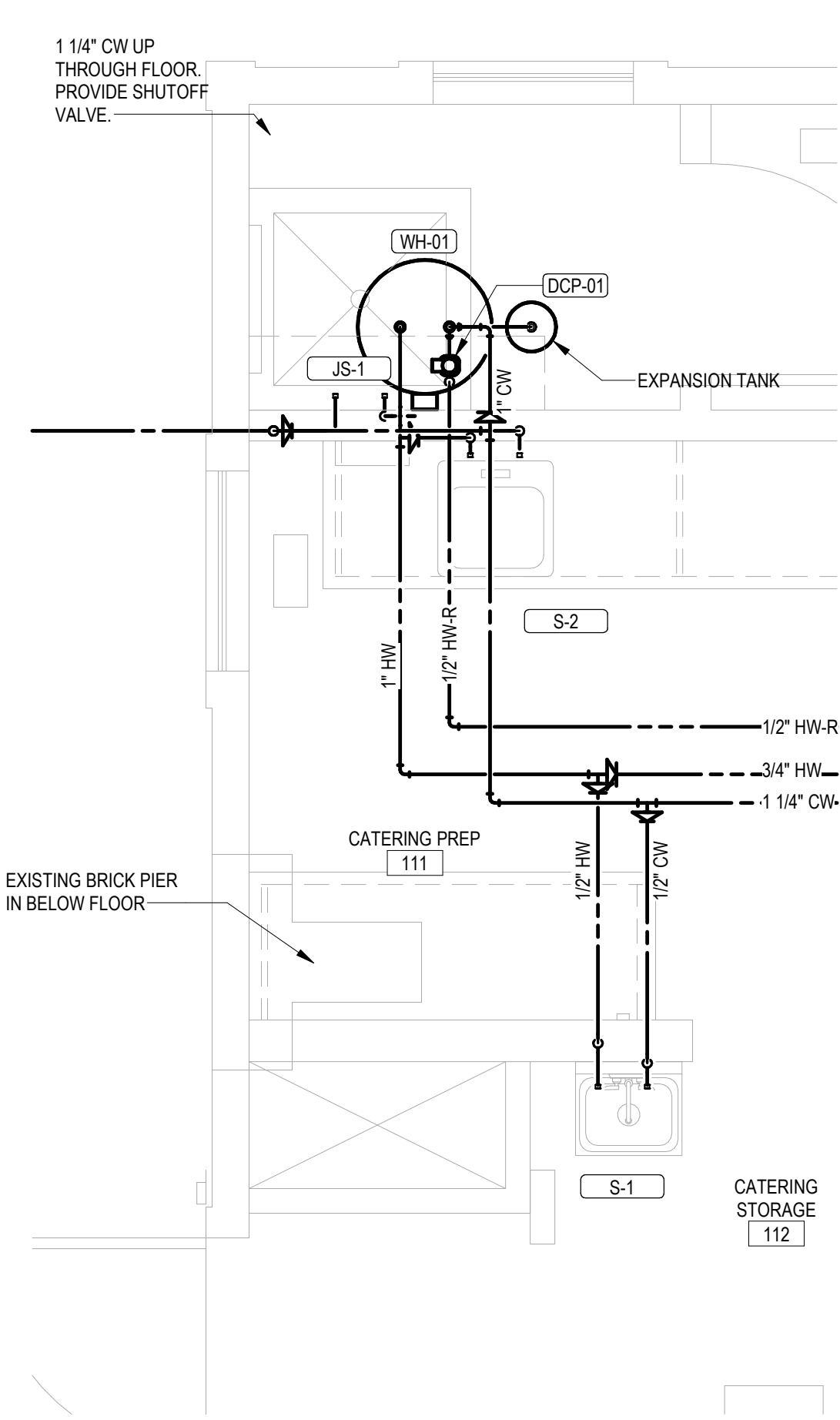
1 OVERALL PLUMBING PLAN - DEPOT
P-101 1/4" = 1'-0"



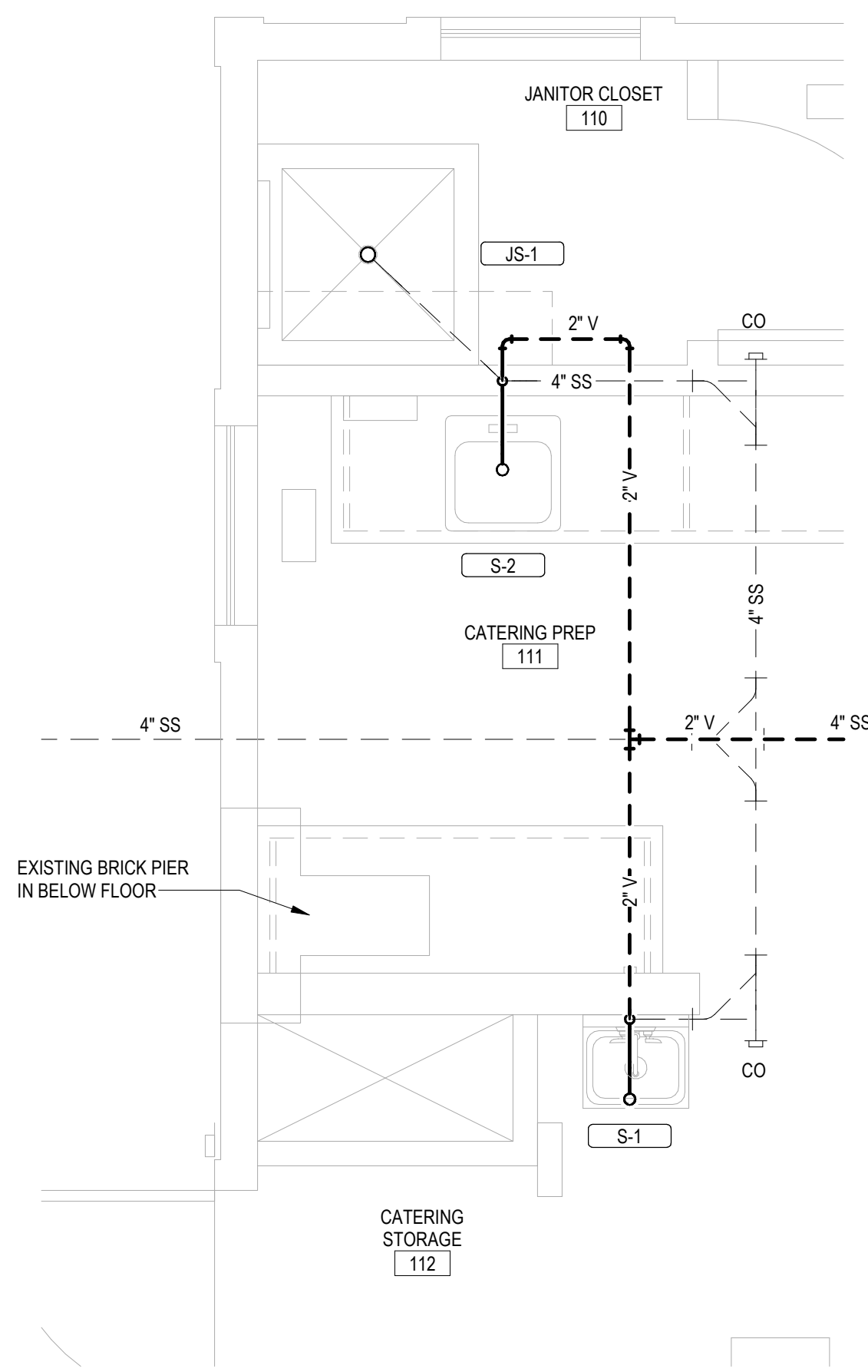
2 OVERALL PLUMBING PLAN - PLATFORM
P-101 1/4" = 1'-0"



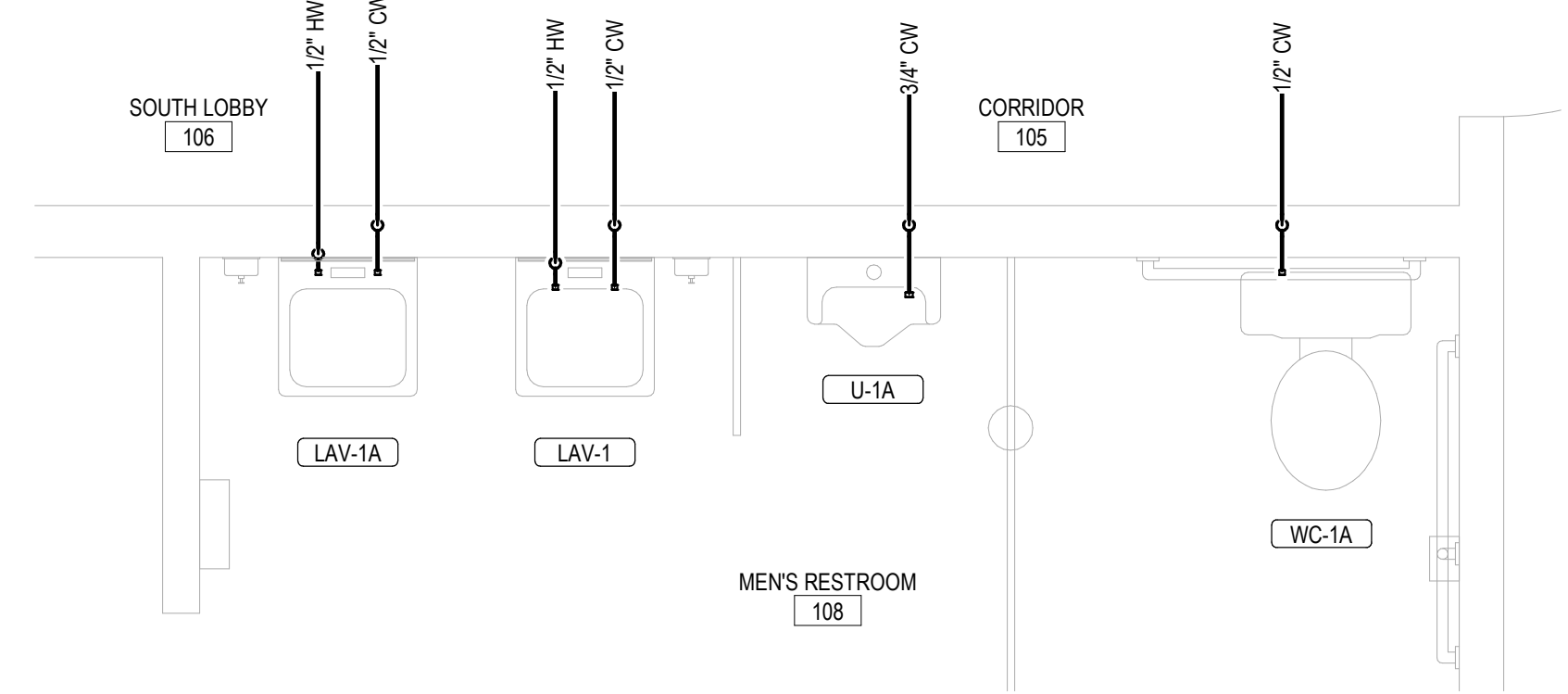
KEYNOTES
1 TERMINATE VENT PIPING IN EXISTING CHIMNEY (SEE ARCHITECTURAL FLASHING DETAIL)



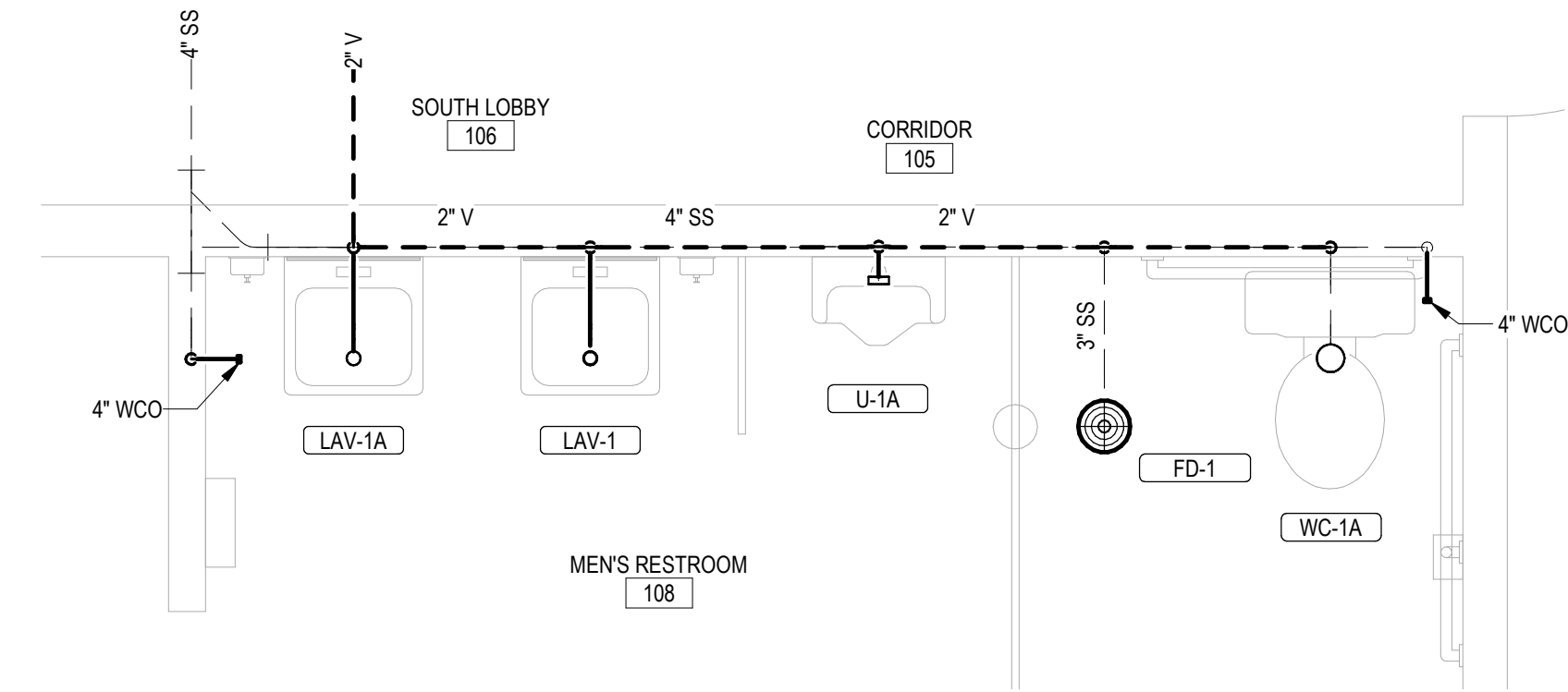
3 DOMESTIC PLUMBING PLAN - 107/111/112
P-401 1/2" = 1'-0"



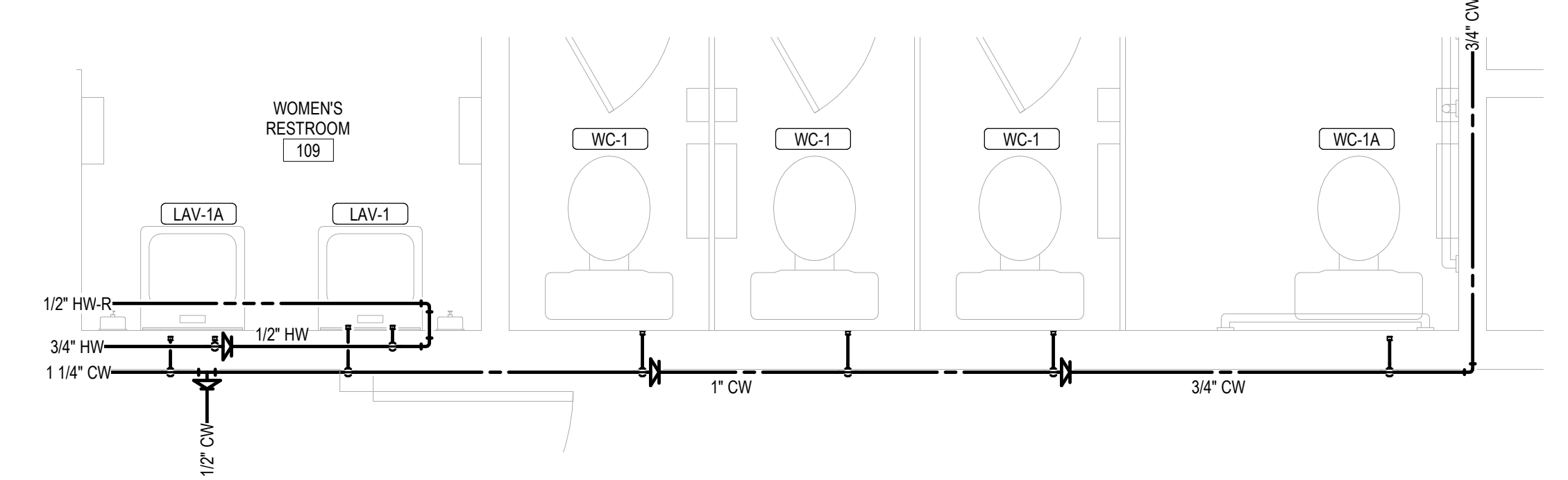
6 WASTE AND VENT PLUMBING PLAN - 107/111/112
P-401 1/2" = 1'-0"



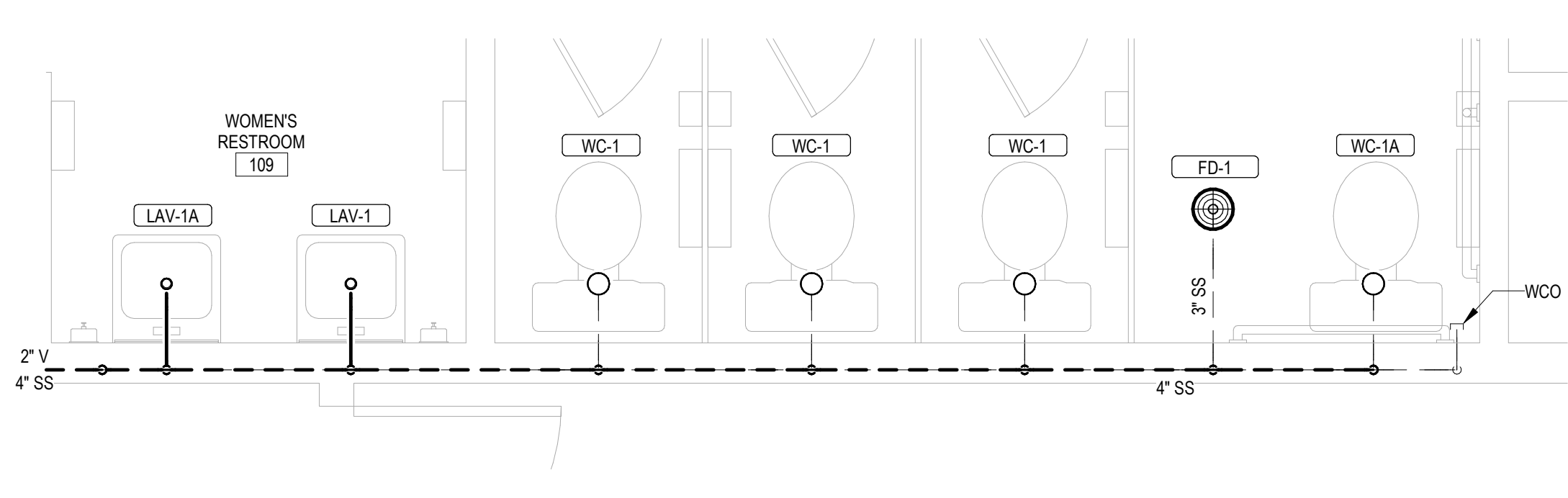
1 DOMESTIC PLUMBING PLAN - 105/108
P-401 1/2" = 1'-0"



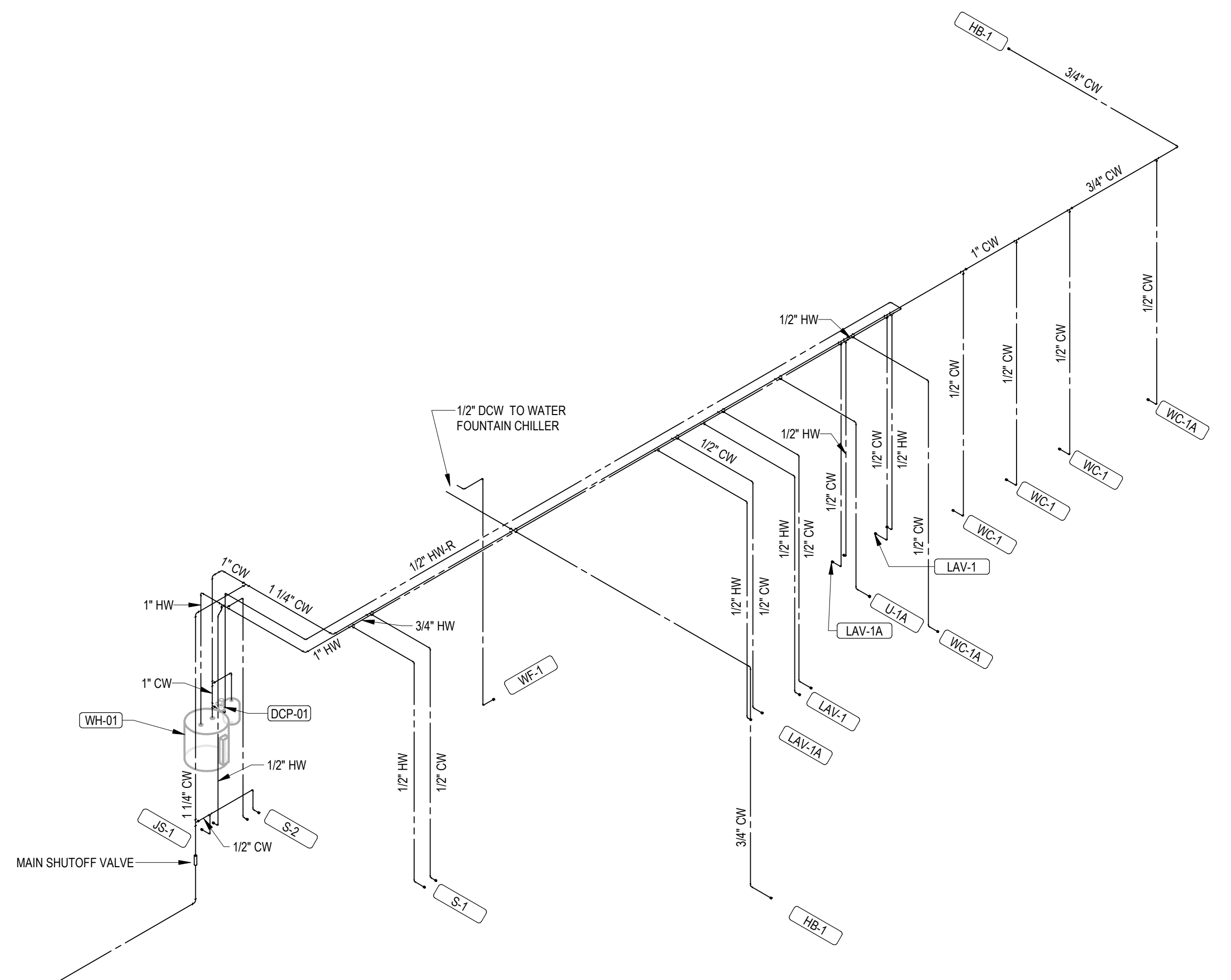
7 WASTE AND VENT PLUMBING PLAN - 105/108
P-401 1/2" = 1'-0"



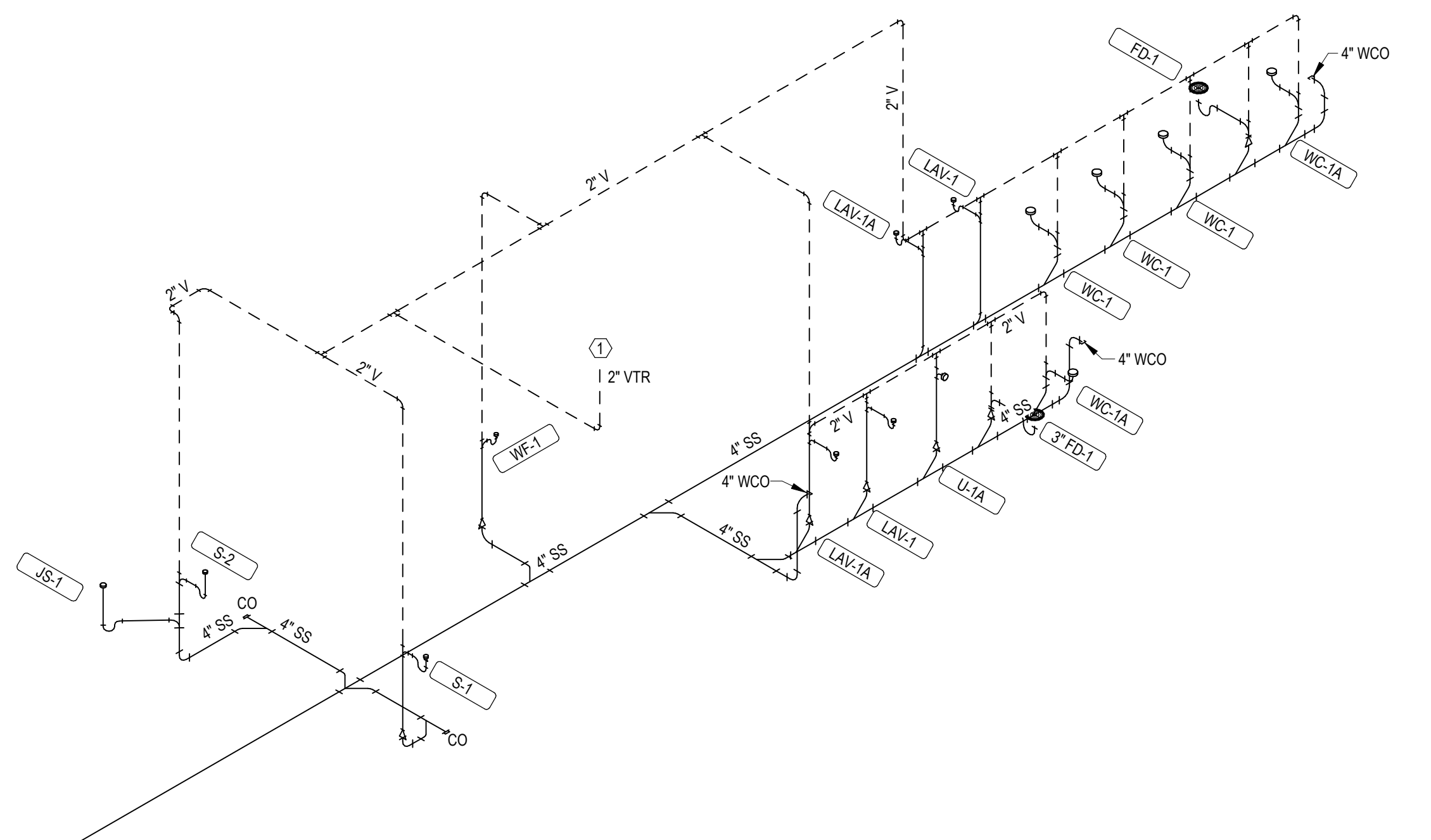
2 DOMESTIC PLUMBING PLAN - 109
P-401 1/2" = 1'-0"



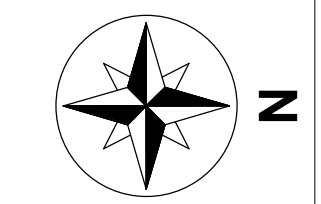
8 WASTE AND VENT PLUMBING PLAN - 109
P-401 1/2" = 1'-0"

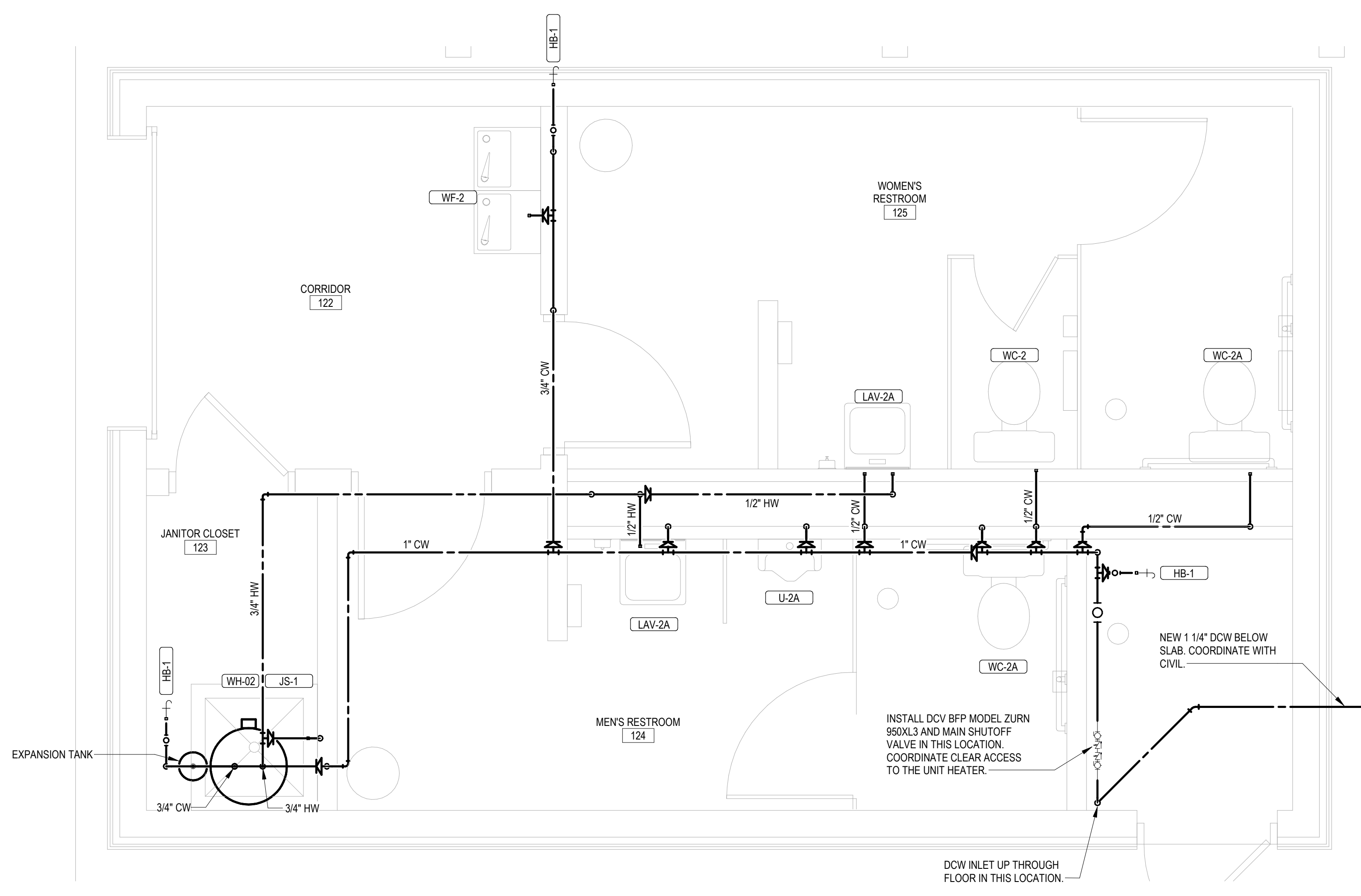


4 DOMESTIC WATER RISER DIAGRAM - DEPOT
P-401 NOT TO SCALE

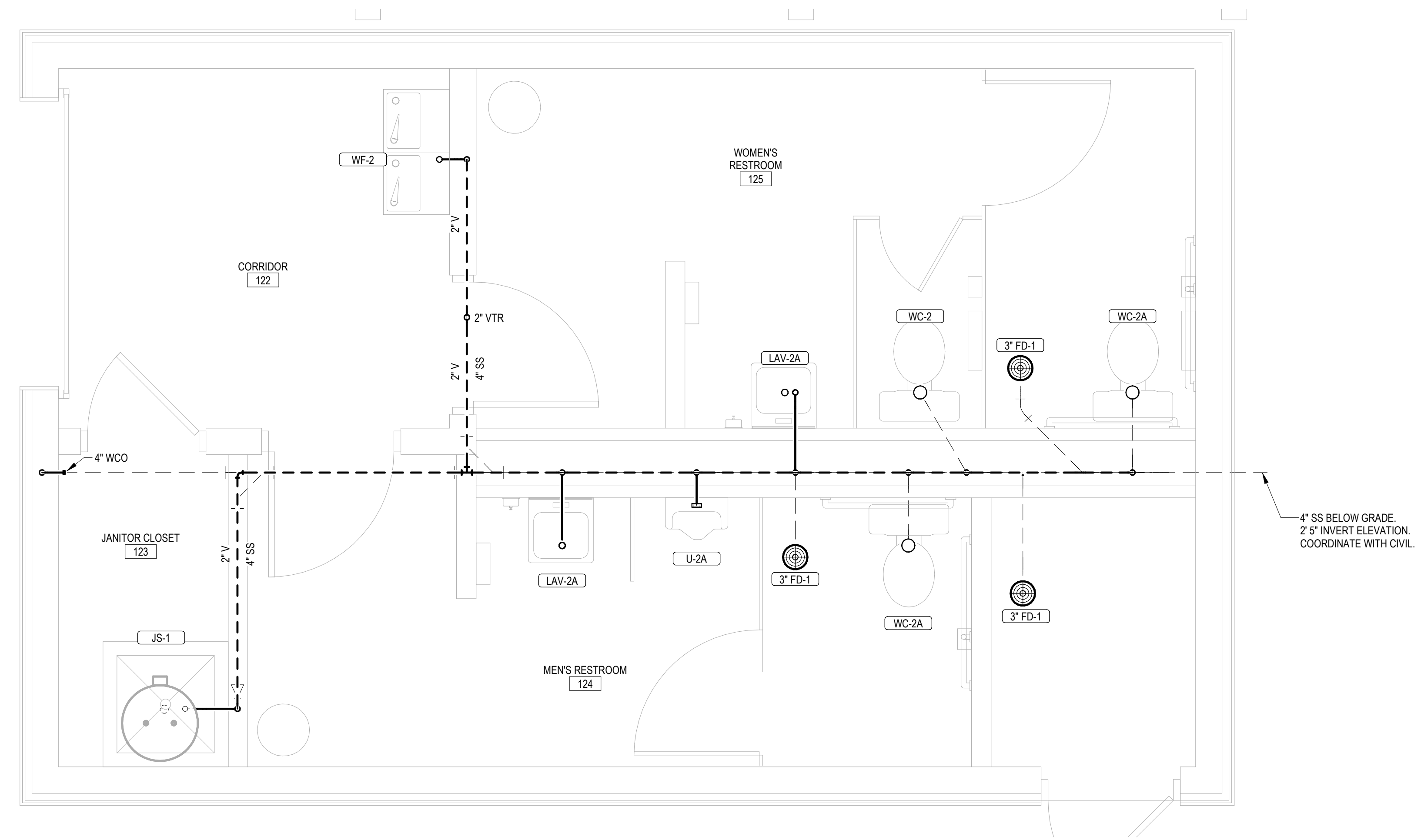


5 WASTE & VENT RISER DIAGRAM - DEPOT
P-401 NOT TO SCALE

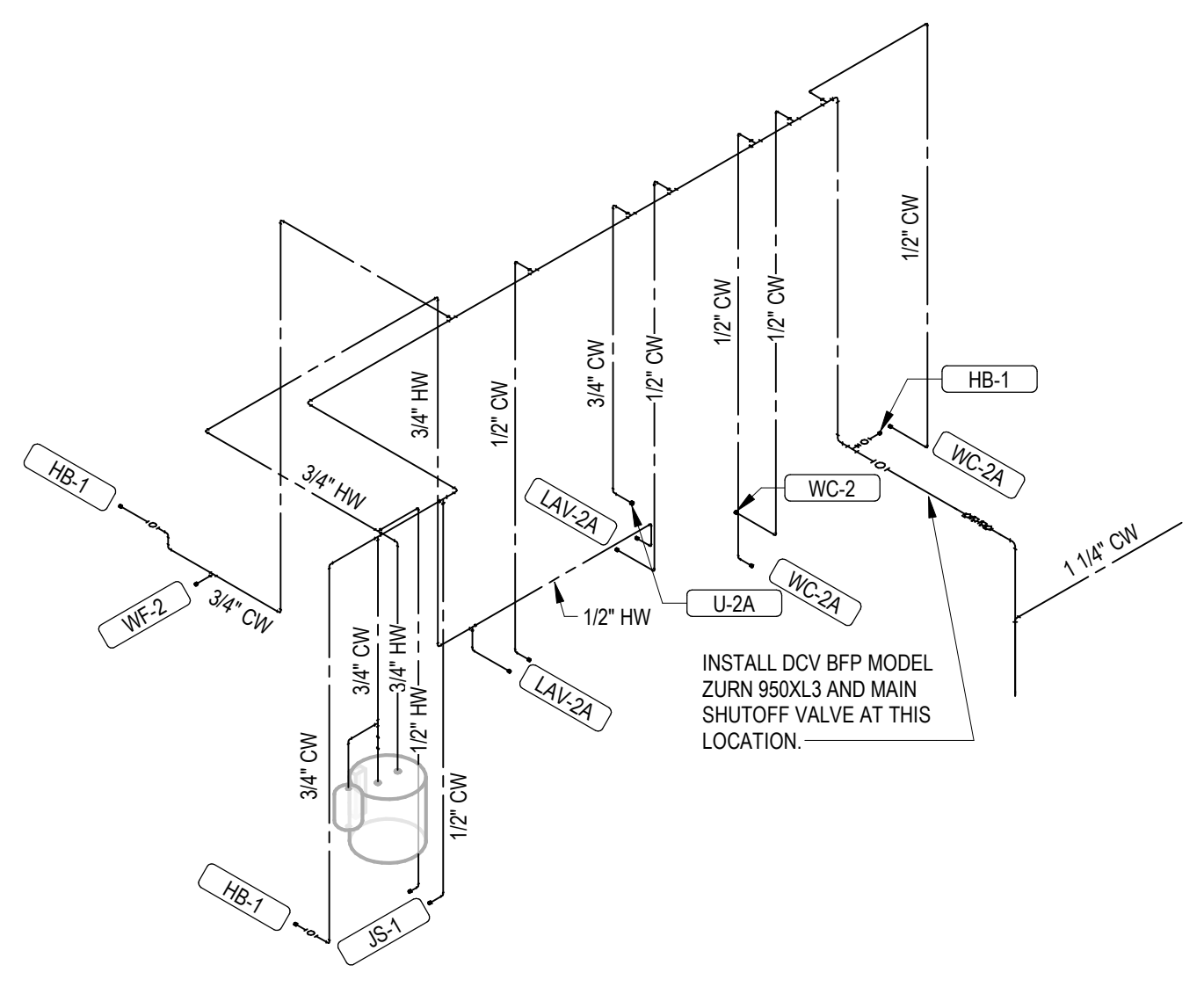




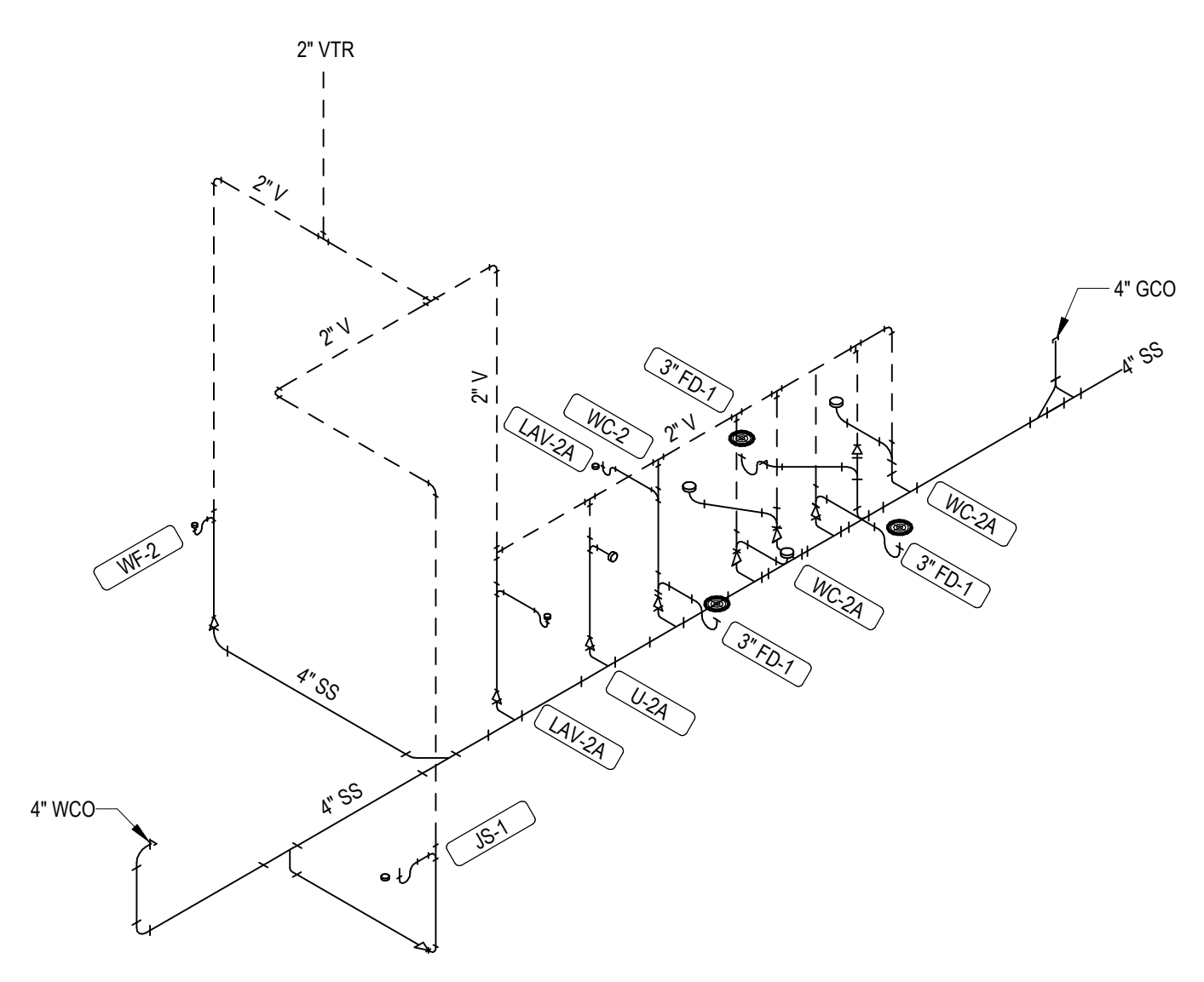
3 DOMESTIC PLUMBING PLAN - 122-126
P-402 1/2" = 1'-0"



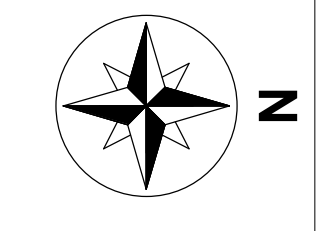
4 WASTE AND VENT PLUMBING PLAN - 122-126
P-402 1/2" = 1'-0"



1 DOMESTIC WATER RISER DIAGRAM - PLATFORM
P-402 NOT TO SCALE



2 WASTE & VENT RISER DIAGRAM - PLATFORM
P-402 NOT TO SCALE



GENERAL PLAN SYMBOLS	
	PLAN REVISION NUMBER
	DETAIL NUMBER ON SHEET
	SHEET NUMBER WHERE DETAIL IS PLACED
	KEYNOTE SYMBOL
	CONTINUATION SYMBOL
	POINT WHERE NEW CONNECTS TO EXISTING
	ROOM NAME / NUMBER
	AREA BEING DEMOLISHED
	AREA NOT IN CONTRACT

ABBREVIATIONS			
0	ROUND	LVR	LOWER
ABV	ABOVE	LVT	LEAVING WATER TEMPERATURE
AC	AIR CONDITIONING	MA	MIXED AIR
AD	AREA DRAIN	MAX	MAXIMUM
ADD	ADDRESS	MBH	ONE THOUSAND BTU PER HOUR
AF	ABOVE FINISHED FLOOR	MCF	ONE THOUSAND CUBIC FEET
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	MD	MOTORIZED DAMPER
ALT	ALTERNATE	MCH	MECHANICAL
AP	ACCESS PANEL	MFR	MANUFACTURER
ARCH	ARCHITECT/ARCHITECTURAL	MIN	MINIMUM
BFF	BELOW FINISHED FLOOR	MISC	MISCELLANEOUS
BLW	BELOW	MTR	MOTOR
BTU	BRITISH THERMAL UNITS	MJA	MAKE-UP/AIR
BTUH	BRITISH THERMAL UNITS PER HOUR	NC	NOTICE CRITERIA
CAP	CAPACITY	NC	NORMALLY CLOSED
CB	CATCH BASIN	NC	NOT IN CONTRACT
CFM	CUBIC FEET PER MINUTE	NO	NOT
CG	CEILING	NO	NORMALLY OPEN
CO	CLEAN OUT	N/A	NOT TO SCALE
CW	COLD WATER	O	OXYGEN
D	DEGREE	OIA	OUTSIDE AIR
DB	DRY BULB	ORV	OVERFLOW ROOF DRAIN
DIA	DIAMETER	PD	PRESSURE DROP
DN	DOWN	PID	POST INDICATOR VALVE
EA	ENTERING AIR TEMPERATURE	PLB	PLUMBING
ELEC	ELECTRICAL	PRES	PRESSURE
EQUIP	EQUIPMENT	PRV	PRESSURE REDUCING VALVE
EW	ELECTRIC WATER COOLER	PSI	POUNDS PER SQUARE INCH
EWT	ENTERING WATER TEMPERATURE	PSI	POUNDS PER SQUARE INCH GAUGE
EA	EXISTING AIR	PWR	POWER
EA	EXISTING	R	RUCT RISER
F	DEGREES FAHRENHEIT	RA	RETURN AIR
F0	FLOOR CLEAN OUT	REC	RECESS
FD	FLOOR DRAIN	RED	REDUCER
FDC	FIRE DEPARTMENT CONNECTION	RH	RELATIVE HUMIDITY
FL	FLOOR	RIA	RELIEF AIR
FD	FUEL OIL	RM	ROOM
FOV	FUEL OIL VENT	RPM	REVOLUTIONS PER MINUTE
FOR	FUEL OIL RETURN	RW	RAIN WATER
FOS	FUEL OIL SUPPLY	RF	SQUARE FOOT
FS	FEET PER MINUTE	SIA	SUPPLY AIR
FT	FOOT/FEET	SA	SANITARY
FTR	FIN TUBE RADIATION	SF	SQUARE FOOT
GAL	GALLON	SD	SMOKE DAMPER
GF	GAS-FIRED	SM	STATIC MOUNT
GC	GENERAL CONTRACTOR	SP	STATIC PRESSURE
GPM	GALLONS PER MINUTE	STM	STEAM
GW	GREASE WASTE	TEMP	TEMPERATURE
HB	HOSE BIB	T	TEMPERATURE DROP
HP	HORSE POWER	TR	TRENCH DRAIN
HTG	HEATING	TR	TEMPERATURE
HTR	HEATER	TY	TYPICAL
HW	HOT WATER	UG	UNDERGROUND
HYD	HYDRANT	VAC	VACUUM
ID	INDIRECT	V	VENT
IN	INCH	VAV	VARIABLE AIR VOLUME
INV	INVERT	VNT	VENTILATION
LB	POUND	VTR	VENT THROUGH ROOF
LBHR	POUNDS PER HOUR	W	WASTE
LAT	LEAVING AIR TEMPERATURE	WB	WET BULB
LP	LOW PRESSURE	WCO	WALL CLEAN OUT
LPG	LIQUEFIED PETROLEUM GAS	WHD	WALL HYDRANT

EQUIPMENT ABBREVIATIONS			
AC	AIR CONDITIONING UNIT	ET	EXPANSION TANK
ACCU	AIR COOLING CONDENSING UNIT	EW	ELECTRIC WATER HEATER
AHU	AIR HANDLING UNIT	FJU	FAN COIL UNIT
AS	AIR SEPARATOR	FP	FIRE PUMP
B	BOILER	GI	GREASE INTERCEPTOR
CH	CHILLER	GRV	GRAVITY ROOF VENTILATOR
CT	COOLING TOWER	HWP	HEATING WATER PUMP
CUH	CABINET UNIT HEATER	HRU	HEAT RECOVERY UNIT
CWHP	CHILLED WATER PUMP	PRV	POWER ROOF VENTILATOR
DBP	DOMESTIC WATER BOOSTER PUMP	RE	RETURN EXHAUST FAN
DC	DUCT MOUNTED COIL	RU	ROOFTOP UNIT
DCP	DOMESTIC WATER CIRCULATING PUMP	SP	SUMP PUMP
EF	EXHAUST FAN	UH	UNIT HEATER
EDC	ELECTRIC DUCT COIL	WH	WATER HEATER

NOTE
ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET. THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

HVAC SYMBOLS	
	24x12" SQ. DUCT SIZE (WIDTH X HEIGHT)
	24x12" OVAL DUCT SIZE (WIDTH HEIGHT)
	18"Ø ROUND DUCT SIZE (DIAMETER)
	EXISTING PIPE TO REMAIN
	DUCT TO BE DEMOLISHED
	SUPPLY AIR
	VENTILATION AIR
	OUTDOOR AIR
	RETURN AIR
	TRANSFER AIR
	BUILDING RELIEF AIR
	GENERAL EXHAUST AIR
	KITCHEN EXHAUST DUCT
	LABORATORY HOOD
	ENV. TOBACCO SMOKE
	FLUE GAS VENT
	COMBUSTION AIR

MECHANICAL PIPING SYMBOLS	
	NOMINAL PIPE SIZE
	ABOVE GROUND PIPING
	BELOW GROUND PIPING
	PIPE SLOPE (WHEN APPLICABLE)
	EXISTING PIPE TO REMAIN
	PIPE TO BE DEMOLISHED
	CHILLED WATER - RETURN
	CHILLED WATER - SUPPLY
	CONDENSATE DRAIN
	CONDENSATE WATER - RETURN
	CONDENSATE WATER - SUPPLY
	GEOTHERMAL WATER - RETURN
	GEOTHERMAL WATER - SUPPLY
	HOT WATER - RETURN
	HOT WATER - SUPPLY
	NATURAL GAS
	LIQUID PROPANE
	REFRIGERANT LIQUID
	REFRIGERANT GAS
	REFRIGERANT DISCHARGE
	REFRIGERANT SUPPLY
	STEAM CONDENSATE - RETURN
	PIPE RISE / DROP

GRILLE, REGISTER, DIFFUSERS	
	SQUARE CEILING DIFFUSER (SEE SCHEDULE)
	AIRFLOW
	NECK SIZE / MODULE SIZE
	CATALOG NUMBER
	THROW PATTERN
	MAX NC RATING
	ROUND CEILING DIFFUSER
	AIRFLOW
	NECK SIZE
	TYPE COUNT FOR SPACE
	SIDEWALL SUPPLY GRILLE
	AIRFLOW
	NOMINAL DUCT SIZE
	MOUNTING ELEVATION (CENTERLINE)
	LINEAR DIFFUSER
	AIRFLOW
	NECK SIZE / SLOT (S) ACTIVE LENGTH
	SIDEWALL RETURN GRILLE
	AIRFLOW
	NOMINAL DUCT SIZE
	MOUNTING ELEVATION (CENTERLINE)
	CEILING RETURN
	AIRFLOW
	NOMINAL DUCT SIZE
	MAX NC RATING
	MECHANICAL EQUIPMENT
	UNIT IDENTITY
	NOMINAL COOLING CAPACITY
	HEATING CAPACITY
	GAS SUPPLY INPUT RATE
	OPERATING WEIGHT
	DESIGN AIRFLOW RATE
	DESIGN WATER FLOW
	BOTTOM OF EQUIPMENT HEIGHT
	EXISTING TO REMAIN EQUIPMENT
	EXISTING RELOCATED EQUIPMENT
	EQUIPMENT BY OTHERS (REFER TO OTHER DISCIPLINES)

MECHANICAL DEVICES	
	UNIT IDENTITY
	TEMPERATURE SENSOR
	TEMP / HUMIDITY SENSOR
	TEMP / CO2 SENSOR
	THERMOSTAT
	HUMIDISTAT
	HUMIDITY SENSOR
	CARBON DIOXIDE DETECTOR
	CARBON MONOXIDE DETECTOR
	HYDROGEN GAS DETECTOR
	HAZARDOUS GAS DETECTOR
	NITROGEN DIOXIDE DETECTOR
	OXYGEN GAS DETECTOR
	MANUAL DAMPER
	MOTORIZED DAMPER
	BACKDRAFT DAMPER
	SMOKE DAMPER
	FIRE DAMPER
	COMB. FIRE / SMOKE DAMPER

MECHANICAL GENERAL NOTES	
1.	PROVIDE ALL MATERIALS AND LABOR FOR COMPLETE AND PROPERLY FUNCTIONING MECHANICAL SYSTEMS. WARRANTY ALL WORK AND ALL MATERIALS, EQUIPMENT AND DEVICES FOR A PERIOD OF ONE YEAR AFTER OWNER'S ACCEPTANCE.
2.	MECHANICAL CONTRACTOR SHALL PERFORM SERVICE AND REPAIR ON THE EXISTING MECHANICAL SYSTEMS IN ACCORDANCE WITH THE MOST CURRENT EDITION OF THE INTERNATIONAL MECHANICAL CODE, SMACNA, ASHRAE AND ALL FEDERAL, STATE AND LOCAL CODES AND ORDINANCES WHICH APPLY TO THIS WORK.
3.	DRAWINGS ARE DIAGNOSTIC IN NATURE AND ARE NOT INTENDED TO BE SCALED FOR DIMENSIONS.
4.	ALL MATERIALS, EQUIPMENT AND DEVICES SHALL MEET THE REQUIREMENTS OF UL WHERE UL STANDARDS ARE ESTABLISHED FOR THOSE ITEMS. ALL ITEMS SHALL BE CLASSIFIED BY UL AS SUITABLE FOR THE PURPOSES USED.
5.	COORDINATE LOCATION OF MECHANICAL WORK WITH OTHER TRADES TO AVOID CONFLICTS AND INTERFERENCES. PROVIDE OWNER TRAINING ON SYSTEM OPERATION.
6.	INSTALL ALL EQUIPMENT AND MATERIAL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN, PRINTED INSTRUCTIONS AND RECOMMENDATIONS.
7.	PROVIDE OWNER WITH CERTIFICATE OF FINAL INSPECTION AND ACCEPTANCE FROM AUTHORITY HAVING JURISDICTION.
8.	MAKE CONNECTIONS FROM MECHANICAL EQUIPMENT TO DUCTWORK USING FLEXIBLE DUCT CONNECTIONS.
9.	DUCT SIZES INDICATED ARE NET FREE INSIDE DIMENSIONS OF RECTANGULAR METAL DUCT. AT CONTRACTOR'S OPTION, EQUIVALENT SIZE ROUND DUCT MAY BE USED.
10.	ALL TRANSFER DUCTWORK SHALL BE INTERNALLY LINED WITH MINIMUM 1" ACOUSTIC LINING.
11.	PROVIDE FLOAT SWITCH IN ALL SECONDARY PANS TO SHUT OFF UNITS WHEN DRAINS BECOME OBSTRUCTED.
12.	CONTRACTOR SHALL FURNISH AND INSTALL ALL MANUAL DAMPERS NEEDED FOR AN OPERATIONAL SYSTEM. ALL DAMPERS SHALL BE OFSET, LOOKING, QUADRANT TYPE DAMPERS.
13.	WHERE PIPES PENETRATE FIRE RATED WALLS, FLOORS OR CEILING, SEAL OPENING AROUND PIPES WITH UL LISTED FIRE STOPPING MATERIAL TO MAINTAIN FIRE RATING OF THE WALL, FLOOR OR CEILING IN ACCORDANCE WITH UL LISTED DESIGN FOR 1 HOUR PENETRATIONS. SUBMIT UL DESIGN FOR FIRE RATED PENETRATIONS TO ARCHITECT/ENGINEER FOR APPROVAL PRIOR TO START OF WORK.
14.	MECHANICAL CONTRACTOR TO PROVIDE AND INSTALL AN AIR FILTER PER MANUFACTURER'S INSTRUCTIONS PRIOR TO SYSTEM OPERATION. PROVIDE 3 SETS OF REPLACEMENT FILTERS FOR EACH AIR HANDLER. TOOLS SHALL NOT BE REQUIRED TO REPLACE ANY FILTER.
15.	ALL SUPPLY, RETURN AND EXHAUST DUCTWORK SHALL BE SINGLE WALL GALVANIZED STEEL. ALL JOINTS AND SEAMS SHALL BE CLEANED, COATED AND SEALED WITH MASTIC OR MASTIC TAPE PRIOR TO APPLYING THE EXTERNAL INSULATION.
16.	UNLESS INDICATED AS A RADIUS ELBOW, ALL DUCT ELBOWS AND TEES SHALL HAVE TURNING VAINES.
17.	ALL INDOOR CONDENSATE AND REFRIGERANT PIPING SHALL BE INSULATED WITH 1" ELASTOMERIC INSULATION. ALL REFRIGERANT PIPING EXPOSED TO OUTDOORS SHALL BE INSULATED WITH 1.5" ELASTOMERIC FOAM INSULATION WITH MINIMUM 0.16" ALUMINUM JACKET AND ALL JOINTS SHALL BE TAPED WITH ALUMINUM TAPE AROUND FULL CIRCUMFERENCE. EQUIVALENT MATERIALS APPROVED.
18.	PROVIDE ALL OPERATION AND MAINTENANCE MANUALS FOR MECHANICAL EQUIPMENT TO BUILDING OWNER. CONTRACTOR SHALL FILL OUT WARRANTY PAPERWORK AND DELIVER TO ENGINEER AND ARCHITECT OR MAIL TO MANUFACTURER IN ADEQUATE TIME SUCH THAT OWNER MAY OBTAIN MAXIMUM WARRANTY COVERAGE FROM THE MANUFACTURER.
19.	CONDENSATE DRAINS SHALL BE SUPPLIED FOR ALL COOLING EQUIPMENT. CONTRACTOR SHALL ENSURE PROPER INSTALLATION AND DRAINAGE AS REQUIRED BY FEDERAL, STATE, AND LOCAL CODES. CONDENSATE PIPING SHALL BE SCHEDULE 40 CPVC.
20.	PROVIDE ONE YEAR WARRANTY FOR ALL WORKMANSHIP AND MATERIALS AFTER THE DATE OF FINAL ACCEPTANCE.
21.	PIPE WITH OUTSIDE DIAMETER 3/4" TO 1-1/4" SHALL HAVE MINIMUM TEXT HEIGHT OF 1/2" PIPE WITH OUTSIDE DIAMETER 1-1/2" TO 2" SHALL HAVE MINIMUM TEXT HEIGHT OF 3/4" PIPE WITH OUTSIDE DIAMETER GREATER THAN 2" SHALL HAVE TEXT HEIGHT OF 1-1/4". DOMESTIC COLD WATER, CONDENSATE AND LOW-PRESSURE STEAM SHALL BE GREEN LABELS WITH WHITE LETTERING. NATURAL GAS SHALL BE YELLOW LABELS WITH BLACK LETTERING. ALL DOMESTIC WATER AND GAS PIPING LABELS SHALL INCLUDE FLOW DIRECTION ARROWS. PIPING SHALL BE LABELED AS INDICATED IN THE ABBREVIATIONS SCHEDULE. ATTACH LABELING TO PIPE EVERY 10 FEET.
22.	UNLESS OTHERWISE INDICATED, RIGID DUCT SHALL HAVE A CONSTANT UPPER ELEVATION AND REMAIN ADJACENT TO THE STRUCTURE ABOVE. CHANGES IN DUCT HEIGHT SHALL BE MADE SUCH THAT THE 80 TON ELEVATION OF THE DUCT IS MAINTAINED.
23.	ALL EXPOSED ROUND AND OVAL SUPPLY DUCTWORK SHALL BE DOUBLE WALL GALVANIZED STEEL WITH GASKETED JOINTS. THE DUCT SHALL HAVE AN INNER PERFORATED DUCT, A RETAINING LAYER, 1" THICK FIBERGLASS INSULATION LAYER AND A SOLID OUTER DUCT. PROVIDE LINERS OR APPROVED EQUAL. ALL EXPOSED GALVANIZED DUCT SHALL BE PAINTABLE.
24.	CONTRACTOR SHALL PROVIDE SLOPED OR FLAT ROOF CURBS FOR THE SPECIFIC ROOF SLOPE ON THIS PROJECT.
25.	FLEXIBLE DUCT SHALL BE R-8 AND LIMITED TO A MAXIMUM RUN OF 5FT, UNLESS OTHERWISE SPECIFIED ON THE PLANS, OR PRE-APPROVED BY EOR.
26.	WHERE A PLENUM RETURN IS SHOWN, ALL MATERIALS USED IN THE PLENUM SHALL MEET THE 25 FLAME SPREAD INDEX AND 50 DEVELOPED SMOKE SPREAD INDEX OR LESS AS SPECIFIED IN ASTM E84.
27.	THE DEPOT BUILDING IS PART OF THE SPRING HOPE HISTORIC DISTRICT AND IS LISTED ON THE NATIONAL REGISTER OF HISTORIC PLACES.

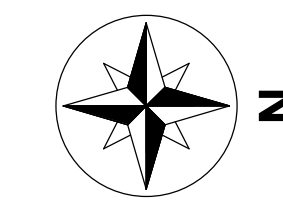
VALVE TYPES	
	2" Z-SHUTOFF
	BALLANCING VALVE
	BUTTERFLY VALVE
	CHECK VALVE
	3" CHECK
	CIRCUIT BREAKER
	GATE VALVE
	GLOBE VALVE
	LOOKED SHIELD VALVE
	PRESSURE REDUCING VALVE
	QUICK OPENING VALVE
	FLUID STRAINER
	ELEC. CONTROL VALVE
	3-WAY ELEC. VALVE
	EMERGENCY GAS SHUTOFF
	PLUG VALVE
	GAS SHUTOFF COCK
	GAS REGULATOR

MECHANICAL DEVICES	
	AHU-1
	AHU-2
	AHU-3
	ET-1
	EF-3XX
	VAV-1-2
	AC-1
	AHU-7-07
	RJAHU-3

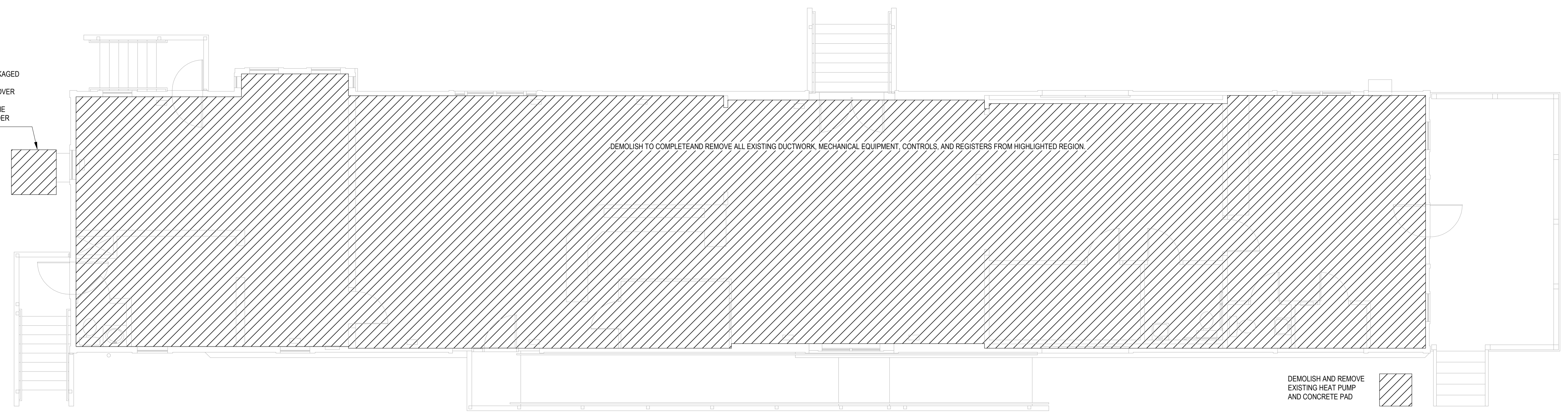
DAMPER TYPES	
	MANUAL DAMPER
	MOTORIZED DAMPER
	BACKDRAFT DAMPER
	SMOKE DAMPER
	FIRE DAMPER
	COMB. FIRE / SMOKE DAMPER

PROJECT GENERAL NOTES	
1.	REMOVE ALL UNUSED PIPING, DUCTWORK AND ACCESSORIES.
2.	THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING, PRIOR TO FINAL BID, ALL EXISTING CONDITIONS FOR PLUMBING AND MECHANICAL SYSTEMS.
3.	MECHANICAL CONTRACTOR SHALL PERFORM SERVICE AND REPAIR ON THE EXISTING EQUIPMENT AND ITS ACCESSORIES AS FOLLOWS: CLEAN ALL COILS, REPLACE THE FILTERS AND BELTS, INSPECT, REPAIR, OR REPLACE THE ECONOMIZERS, DRIVES AND FAN BEARINGS, MOTORS, CONTROL COMPONENTS OPERATING SYSTEM. THIS CONTRACTOR SHALL ALSO VISIT THE SITE, PRIOR TO FINAL BIDDING, AND VERIFY ALL EXISTING SITE CONDITIONS. PROVIDE ALL MATERIALS AND COMPONENTS NEEDED TO BRING THE UNITS TO FULL COMPLIANCE OF THE LANDLORD'S CRITERIA AND LOCAL AUTHORITY HAVING JURISDICTION.
4.	WHERE FLOOR DRAINS OCCUR WITHIN THE LIMITS OF CONSTRUCTION, PREVENT CONSTRUCTION DEBRIS FROM ENTERING DRAIN BODY BY SEALING DRAIN OPENING PRIOR TO START OF WORK. UNSEAL DRAINS AT COMPLETION OF CONSTRUCTION.
5.	COORDINATE INSTALLATION OF PIPING, DUCTWORK, CONDUIT, LIGHTS, CABLE TRAY, STRUCTURE, AND EQUIPMENT TO PREVENT CONFLICTS.
6.	THE CONTRACTOR SHALL BE FAMILIAR WITH ALL THE CONDITIONS BOTH EXISTING AND THOSE ILLUSTRATED BY THESE DOCUMENTS AS WELL AS THOSE WHICH CAN BE REASONABLY ANTICIPATED INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, ELECTRICAL, VENTILATION, PLUMBING, AND OTHER SYSTEMS INVOLVED ON THIS PROJECT.
7.	FINAL PRODUCT SHALL BE A COMPLETE AND FUNCTIONING SYSTEM, AND SHALL CONFORM TO ALL REQUIREMENTS OF APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING BUT NOT LIMITED TO THE INTERNATIONAL BUILDING CODE AND INTERNATIONAL MECHANICAL CODE.
8.	LOCATE EQUIPMENT REQUIRING ACCESS 2'-0" MAXIMUM ABOVE CEILING.
9.	ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT EDITION OF ALL APPLICABLE CODES, AND LOCAL CODES AS APPLIED BY THE AUTHORITY HAVING JURISDICTION.
10.	LOCATE DUCTWORK, PIPING AND MECHANICAL EQUIPMENT AWAY FROM THE SPACE ABOVE ELECTRICAL PANELS, TRANSFORMERS AND OTHER ELECTRICAL EQUIPMENT.
11.	PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE STOPPED. FIRE STOPPING SHALL BE AN APPROVED MATERIAL AND SHALL BE U.L. LISTED.
12.	PROVIDE SLEEVES AND/OR OPENINGS TO RUN PIPES AND DUCTS THROUGH FOUNDATIONS, FLOORS, WALLS, AND ROOF.
13.	MAINTAIN CLEAR ACCESS TO SERVICE EQUIPMENT AND OTHER ACCESSORIES REQUIRING SERVICE, VISUAL INSPECTION OR HAND OPERATION, WHERE INDICATED OR REQUIRED. PROVIDE ACCESS PANELS OF THE TYPE SELECTED TO SUIT MATERIALS IN WHICH INSTALLED.
14.	ADJUST PIPING AND DUCTWORK SIZES TO PROPERLY CONNECT TO MECHANICAL EQUIPMENT. PIPE SIZES SHOWN SHALL BE CONTINUED IN THE DIRECTION OF FLOW UNTIL ANOTHER SIZE IS SPECIFIED.
15.	FOR DETAILS, EQUIPMENT CONNECTIONS, AND PIPE SIZES NOT SHOWN ON THE SEGMENTS, REFER TO DETAILS, SCHEDULES, AND SPECIFICATIONS.
16.	INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS. AT A LEVEL OF QUALITY AND WORKMANSHIP CONSISTENT WITH THE SPECIFICATIONS.
17.	LOCATIONS OF PIPING, DUCTWORK AND EQUIPMENT AS INDICATED ON THE DRAWING, ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. WORK SHALL BE COORDINATED WITH ALL OTHER TRADES TO AVOID INTERFERENCE IN THE FIELD.
18.	EXPOSED PIPING AND DUCTWORK AS HIGH AS PRACTICAL IN ROOMS WITHOUT CEILINGS.
19.	THE CONTRACTOR'S WORK SCHEDULE SHALL BE SUBMITTED TO AND APPROVED BY THE ARCHITECT.
20.	PRIOR TO STARTING WORK, SUBMIT SHOP DRAWINGS FOR ALL MECHANICAL EQUIPMENT, PLUMBING FIXTURES, AND DIFFUSERS.
21.	PROVIDE ONE YEAR WARRANTY FOR ALL WORKMANSHIP AND MATERIALS AFTER THE DATE OF FINAL ACCEPTANCE.
22.	PRIOR TO BIDDING ON THE PROJECT AND PRIOR TO STARTING CONSTRUCTION THE CONTRACTOR SHALL REVIEW PLANS FROM OTHER DISCIPLINES, BECOME FULLY KNOWLEDGEABLE ABOUT THE PROJECT, REQUIREMENTS, AND NECESSARY EQUIPMENT REQUIRED TO COMPLETE THE PROJECT IN A COMPLIANT FASHION. THIS INCLUDES BUT NOT LIMITED TO ARCHITECTURAL, STRUCTURAL, CIVIL, AND OTHER MEP PLANS.

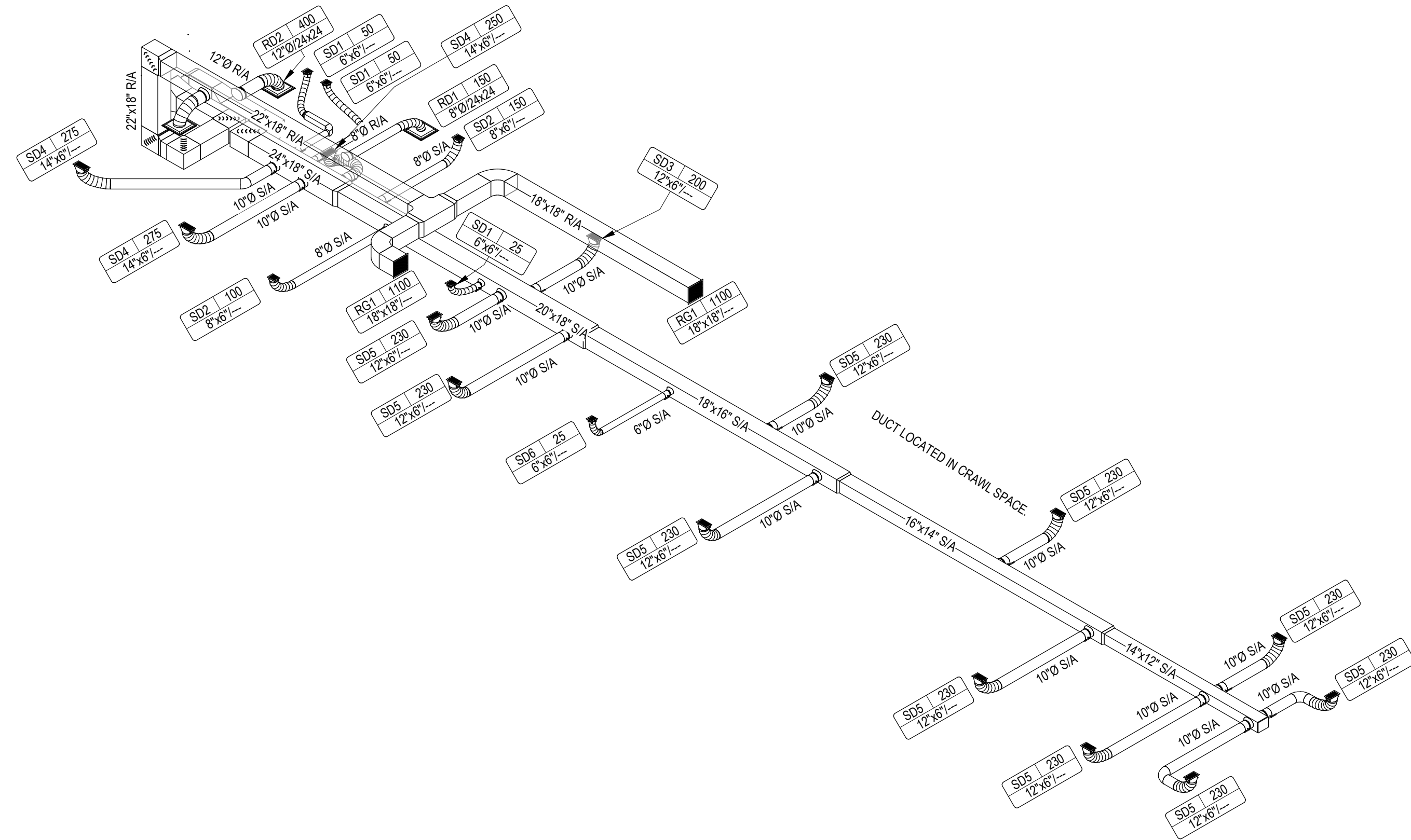
DUCTWORK INSULATION SPECIFICATIONS	
GENERAL	SUPPLY AND RETURN DUCT EXPOSED TO MECHANICALLY CONDITIONED AIR (I.E. PLENUMS) SHALL BE INSULATED TO R-6 EQUIVALENT TO OWENS CORNING SOFTR DUCT WRAP FRK OR ARMAFLEX ELASTOMERIC FOAM.
	SUPPLY AND RETURN DUCT EXPOSED TO OUTSIDE AIR SHALL BE INSULATED TO R-8 EQUIVALENT TO OWENS CORNING SOFTR WRAP FRK OR ARMAFLEX ELASTOMERIC FOAM.
	SEAL ALL DUCT INSULATION PER MANUFACTURER'S INSTRUCTIONS. WHERE NOT SPECIFIED BY MANUFACTURER,



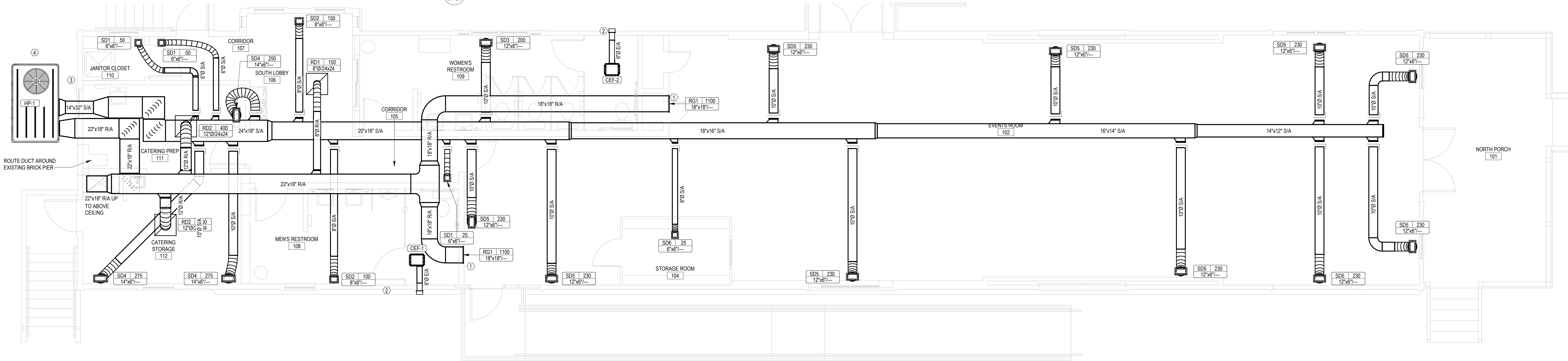
REMOVE EXISTING PACKAGED UNIT AND DEMOLISH CONCRETE PAD. TURN OVER UNIT TO THE GC FOR COORDINATION WITH THE TOWN MANAGER IN ORDER TO SALVAGE THE UNIT.



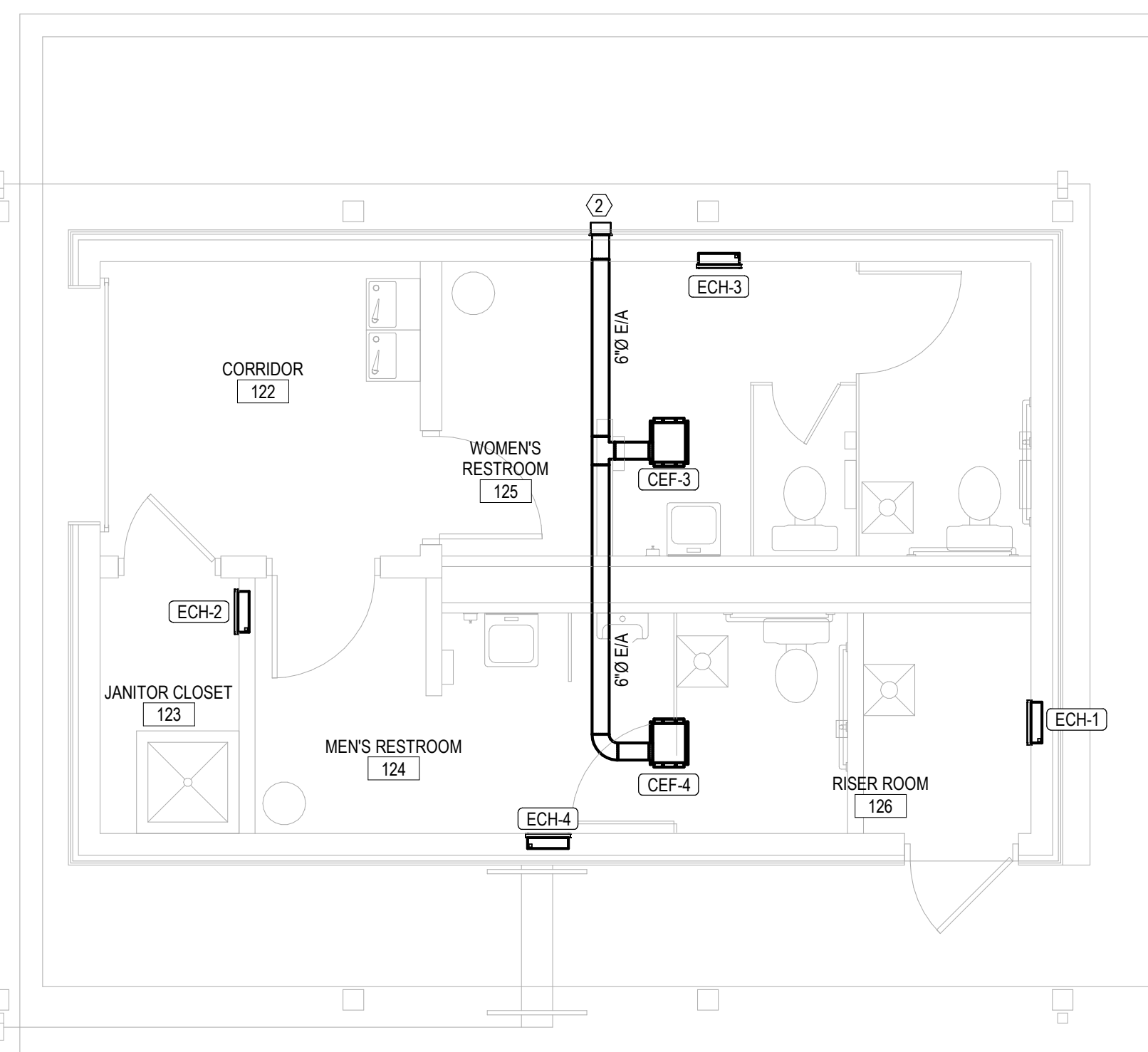
1 OVERALL MECHANICAL DEPOT DEMOLITION PLAN
MD101 3/16" = 1'-0"



1 DUCTWORK RISER DIAGRAM
M-101



2 OVERALL MECHANICAL DEPOT FLOOR PLAN
M-101 1/4" = 1'-0"



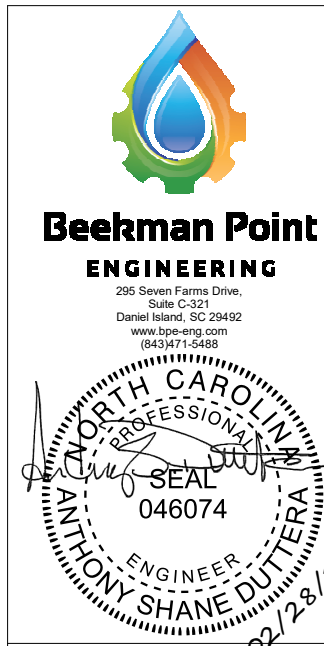
3 OVERALL MECHANICAL PLATFORM FLOOR PLAN
M-101 1/4" = 1'-0"

HVAC SHEET NOTES

- CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE A COMPLETE AND WORKING SYSTEM.
- INSTALL, SUPPORT & BRACE NEW DUCTWORK AND ACCESSORIES PER SMACNA GUIDELINES.
- DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS. CONTRACTOR SHALL MAKE ALLOWANCE FOR ANY INTERIOR LINING, INSULATION, ETC. ALL NEW DUCT ELBOWS SHALL BE RADIUS TYPE. WHERE NECESSARY, CONTRACTOR MAY SUBSTITUTE MITERED ELBOWS WITH TURNING VANES.
- PROVIDE FLAT BLADE MANUAL VOLUME DAMPERS AT ALL TERMINAL DUCT BRANCHES AND AS INDICATED.
- COORDINATE ALL EXTERIOR PENETRATIONS INCLUDING ROOF PENETRATIONS WITH OTHER TRADES TO PROVIDE A COMPLETE AND FULLY WEATHER-PROOF INSTALLATION.
- CONTRACTOR SHALL ENGAGE A TESTING AND BALANCE FIRM CERTIFIED BY AABC TO PERFORM TESTING AND BALANCING PROCEDURES ON EACH SYSTEM ACCORDING TO THE PROCEDURES CONTAINED IN AABC'S NATIONAL STANDARDS AND PROVIDE TWO COPIES OF THE CERTIFIED TAB REPORTS.
- THIS DRAWING IS DIAGNOSTIC IN NATURE AND SHALL NOT BE SCALED TO DETERMINE THE EXACT LOCATION OR EXTENT OF THE WORK. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO THE START OF THE WORK.
- THIS DRAWING IS BASED ON VISUALLY OBSERVABLE EXISTING CONDITIONS AS OF THE TIME OF DESIGN. CONTRACTOR SHALL BE RESPONSIBLE TO FULLY VERIFY ALL EXISTING CONDITIONS, COMPONENTS, ETC. PRIOR TO THE START OF THE WORK. ANY DEVIATION FROM THIS DRAWING IN KIND, OR IN LOCATION EXCEEDING 1'-0", SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.

KEYNOTES

- MOUNT RETURN AIR GRILLE AT 12FT 6IN +/- AFF.
- TERMINATE 6" EXHAUST DUCT WITH WALLCAP EQUIVALENT TO GREENHECK WC-6.
- SUPPLY DUCT RUNS UNDERNEATH STRUCTURE.
- OUTSIDE AIR ENTERS FROM UNIT INTAKE.



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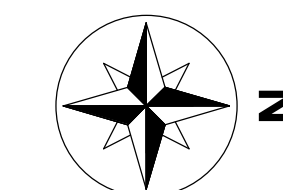
DATE: 02-28-2025

REVISION: ISSUE FOR CONSTRUCTION

NO 0

SPRING HOPE RAILROAD DEPOT Interior Renovation 101 SOUTH ASH STREET SPRING HOPE, NORTH CAROLINA 27882

JOB: 240015
DATE: 02-28-2025
DRAWN: JD
SHEET



M-101

PACKAGED HEAT PUMP SCHEDULE																																	
ID	MANUFACTURER	MODEL	PRODUCT TYPE	NOMINAL CAPACITY	OUTDOOR AIR FLOW	SUPPLY FAN CAPACITY			SUPPLY FAN MOTOR		COOLING COIL					ECONOMIZER			HEAT PUMP HEATING			ELECTRIC RESISTANCE HEATING				ELECTRICAL			REFRIGERANT TYPE	EFFICIENCY	WEIGHT	DISCONNECT FURNISHED BY	NOTES
						DESIGN AIRFLOW	ESP	QTY	SIZE	TOTAL	SENSIBLE	EDB	EWB	LDB	LWB	DBT SETPOINT	ENTHALPY SETPOINT	OUTPUT	EAT	LAT	18.0 KW	MCA	MOC	VOLTAGE	PHASE	R-410A	11.0 EER, 14.60 SEER	1239 lb					
HP-1	TRANE	WSC120H3	PACKAGED HEAT PUMP	10 ton	550 CFM	3,700 CFM	1.00 in-wg	1	3.00 hp	116,930 Btu/h	92,640 Btu/h	80 °F	67 °F	58.52 °F	57.43 °F	65 °F	22.0 BTU/lb	102,120 Btu/h	70 °F	95.55 °F	18.0 KW	101.0 A	110.0 A	208 V	3	R-410A	11.0 EER, 14.60 SEER	1239 lb	MANUF.	1,2,3,4,5,6,7,8			

- NOTES:
1. PROVIDE MODEL SELECTED OR EQUIVALENT BY CARRIER OR YORK
 2. LOCAL DISCONNECT, POWERED CONVENIENCE OUTLET, AND SINGLE POINT POWER CONNECTION.
 3. HINGED PANELS, AND HAIL GUARD.
 4. SINGLE ZONE VAV UNIT.
 5. BAROMETRIC RELIEF, LOW LEAKAGE DAMPERS, AND REFERENCE ENTHALPY ECONOMIZER.
 6. INSTALL ON CONCRETE HOUSEKEEPING PAD. PROVIDE GROUND MOUNT CURB WITH SPRING VIBRATION ISOLATORS.
 7. LOCKOUT HEAT PUMP HEATING BELOW 35°.
 8. SEE SEQUENCE OF OPERATIONS FOR ADDITIONAL REQUIREMENTS.

GRILLES, REGISTERS, AND DIFFUSERS SCHEDULE										
ID	MANUFACTURER	MODEL	MATERIAL	NECK			FACE SIZE	MAX NC	PRODUCT SPECIFICATION	NOTES
				ROUND	HEIGHT	WIDTH				
RD1	TITUS	PAR-AA	ALUMINUM	8"			24x24	13	PERFORATED CEILING RETURN DIFFUSER	1,2,3,4,5,6,7
RD2	TITUS	PAR-AA	ALUMINUM	12"			24x24	22	PERFORATED CEILING RETURN DIFFUSER	1,2,3,4,5,6,7
RG1	TITUS	SS9FL	ALUMINUM	18"	18"		---	21	ALUMINUM LOUVERED RETURN GRILLE	1,2,3,4,5,6
SD1	REGGIO	SCROLL	CAST IRON	6"	6"		---	15	CAST IRON SCROLL VENT GRILLE	1,2,3,4,5
SD2	REGGIO	SCROLL	CAST IRON	6"	8"		---	17	CAST IRON SCROLL VENT GRILLE	1,2,3,4,5
SD3	REGGIO	SCROLL	CAST IRON	6"	12"		---	13	CAST IRON SCROLL VENT GRILLE	1,2,3,4,5
SD4	REGGIO	SCROLL	CAST IRON	6"	14"		---	14	CAST IRON SCROLL VENT GRILLE	1,2,3,4,5
SD5	REGGIO	SCROLL	CAST IRON	6"	12"		---	13	CAST IRON SCROLL VENT GRILLE	1,2,3,4,5
SD6	REGGIO	SCROLL	CAST IRON	6"	6"		---	15	CAST IRON SCROLL VENT GRILLE	1,2,3,4,5

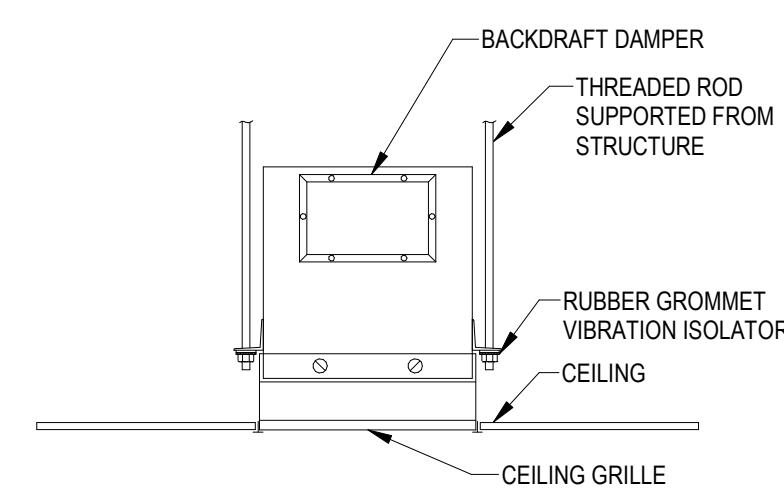
- NOTES:
1. PROVIDE MODEL SELECTED OR APPROVED EQUAL BY PRICE, NALOR, KRUEGER, OR TUTTLE & BAILEY.
 2. PROVIDE WITH ALUMINUM CONSTRUCTION AND STANDARD FINISH. WHERE CEILING RADIATION DAMPERS ARE REQUIRED, CONTRACTOR SHALL PROVIDE STEEL DIFFUSERS.
 3. COLOR BY ARCHITECT. PROVIDE SELECTION OPTIONS TO OWNER.
 4. PROVIDE WITH OPTIONAL SURFACE MOUNT KIT AS REQUIRED.
 5. PROVIDE SQUARE TO ROUND TRANSITIONS AS REQUIRED.
 6. FACTORY PRIME FOR FIELD PAINTING BY GC.
 7. PROVIDE SURFACE MOUNT BORDER INSTALLATION.

CEILING EXHAUST FAN SCHEDULE																
ID	MANUFACTURER	MODEL	PRODUCT TYPE	FAN DESIGN			DRIVE TYPE	MOTOR POWER	ELECTRICAL				WEIGHT	DISCONNECT FURNISHED BY	NOTES	
				CAPACITY	ESP	RPM			FLA	MCA	MOC	VOLTAGE				PHASE
CEF-1	GREENHECK	SP-B150	CEILING EXHAUST FAN	140 CFM	0.35 in-wg	1050	ECM	128 W	1.8 A	2.3 A	15 A	115 V	1	10 lb	DIV 26	1,2,3,4
CEF-2	GREENHECK	SP-A350-VG	CEILING EXHAUST FAN	280 CFM	0.30 in-wg	1179	ECM	47 W	1.5 A	1.875 A	15 A	115 V	1	24 lb	DIV 26	1,2,3,4
CEF-3	GREENHECK	SP-B150	CEILING EXHAUST FAN	140 CFM	0.35 in-wg	1050	ECM	128 W	1.8 A	2.3 A	15 A	115 V	1	10 lb	DIV 26	1,2,3,4
CEF-4	GREENHECK	SP-B150	CEILING EXHAUST FAN	140 CFM	0.35 in-wg	1050	ECM	128 W	1.8 A	2.3 A	15 A	115 V	1	10 lb	DIV 26	1,2,3,4

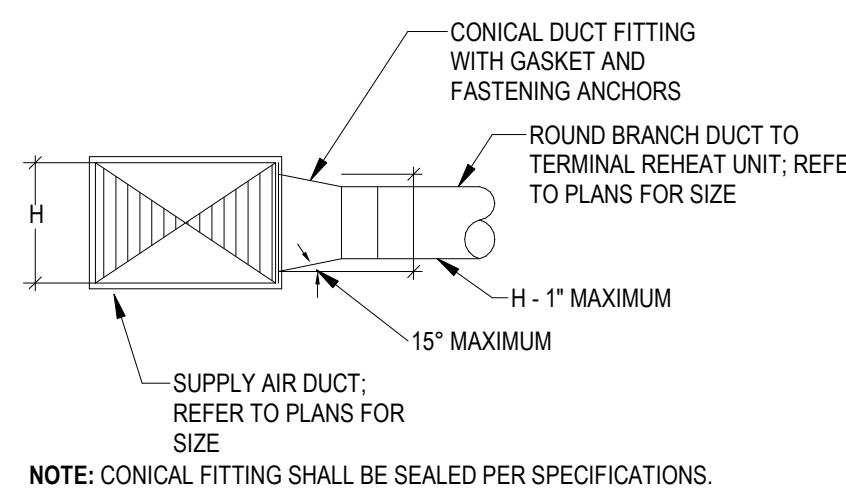
- NOTES:
1. PROVIDE MODEL SELECTED OR EQUIVALENT BY COOK.
 2. PROVIDE WITH A UNIT DISCONNECT SWITCH AND BACKDRAFT DAMPER.
 3. CONTROL WITH LOCAL SWITCH OR OCCUPANCY SENSOR. COORDINATE WITH ELECTRICAL.
 4. FACTORY PRIME FOR FIELD PAINTING BY GC.

ELECTRIC CABINET HEATER SCHEDULE																	
ID	MANUFACTURER	MODEL	PRODUCT TYPE	FAN CAPACITY	HEATING DESIGN		HEATING ELEMENT			SOUND RATING	ELECTRICAL				WEIGHT	DISCONNECT FURNISHED BY	NOTES
					OUTPUT	RATING	FLA	ELEMENTS	MCA		MOC	VOLTAGE	PHASE				
ECH-1	REZTOR	ECH-AK2-2	WALL RECESSED	160 CFM	6,825 Btu/h	2.0 kW	7.21 A	1	55 dBA	9.0 A	20.0 A	208 V	1	24 lb	MANUF.	1,2,3,4,5	
ECH-2	REZTOR	ECH-AK2-2	WALL RECESSED	160 CFM	6,825 Btu/h	2.0 kW	7.21 A	1	55 dBA	9.0 A	20.0 A	208 V	1	24 lb	MANUF.	1,2,3,4,5	
ECH-3	REZTOR	ECH-AK2-4	WALL RECESSED	160 CFM	13,660 Btu/h	4.0 kW	14.42 A	1	55 dBA	18.0 A	20.0 A	208 V	1	24 lb	MANUF.	1,2,3,4,5	
ECH-4	REZTOR	ECH-AK2-4	WALL RECESSED	160 CFM	13,660 Btu/h	4.0 kW	14.42 A	1	55 dBA	18.0 A	20.0 A	208 V	1	24 lb	MANUF.	1,2,3,4,5	

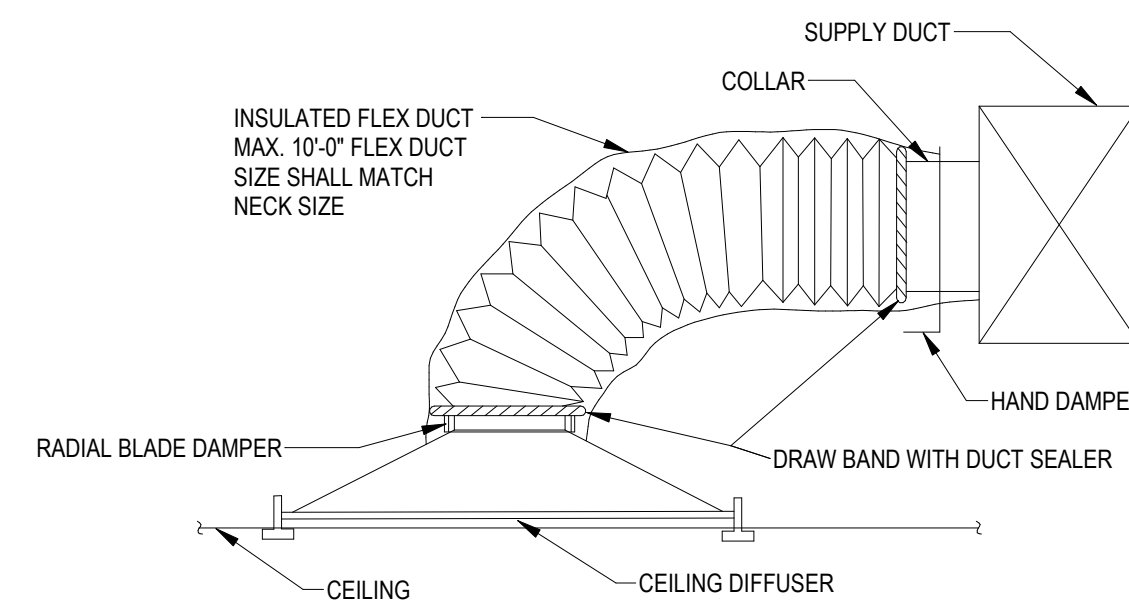
- NOTES:
1. PROVIDE MODEL SELECTED OR APPROVED EQUIVALENT.
 2. PROVIDE WITH MANUFACTURER MOUNTING BRACKET AND ALL REQUIRED HARDWARE FOR COMPLETE INSTALLATION IN ACCORDANCE WITH MANUFACTURER INSTRUCTIONS.
 3. COORDINATE WITH ELECTRICAL FOR CONTROL POWER CONNECTIONS.
 4. PROVIDE WITH INTEGRAL THERMOSTAT AND SET TO 50 °F.
 5. PROVIDE WITH MANUFACTURER 20 A DISCONNECT OPTION BA21.



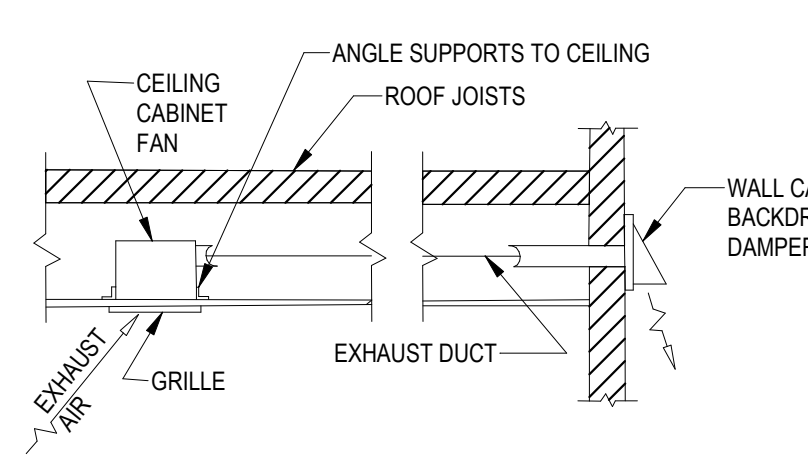
2 VENT TYPICAL CEILING MOUNTED NOT TO SCALE



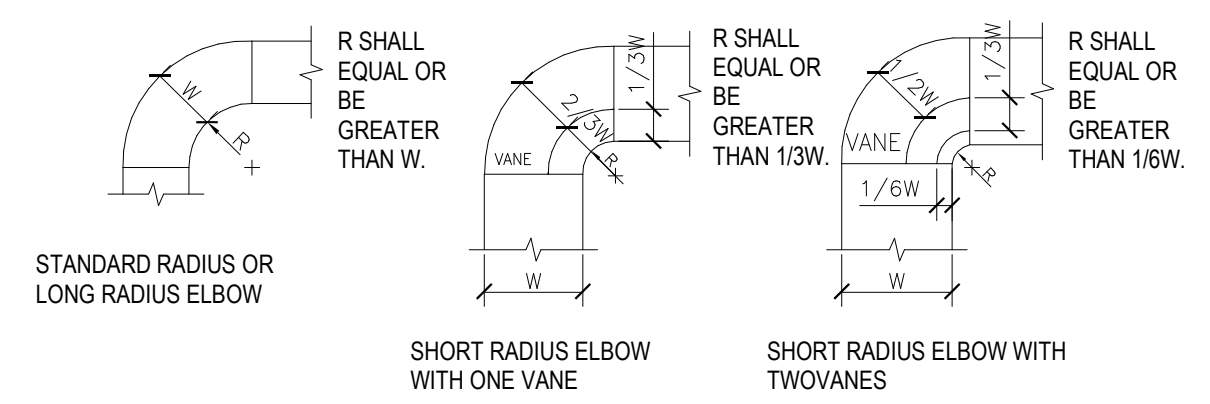
3 CONICAL DUCT FITTING TAKEOFF DETAIL NOT TO SCALE



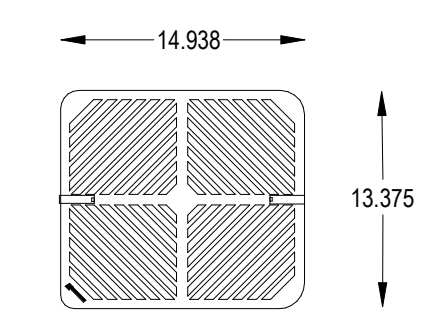
5 TYPICAL DIFFUSER CONNECTION DETAIL NOT TO SCALE



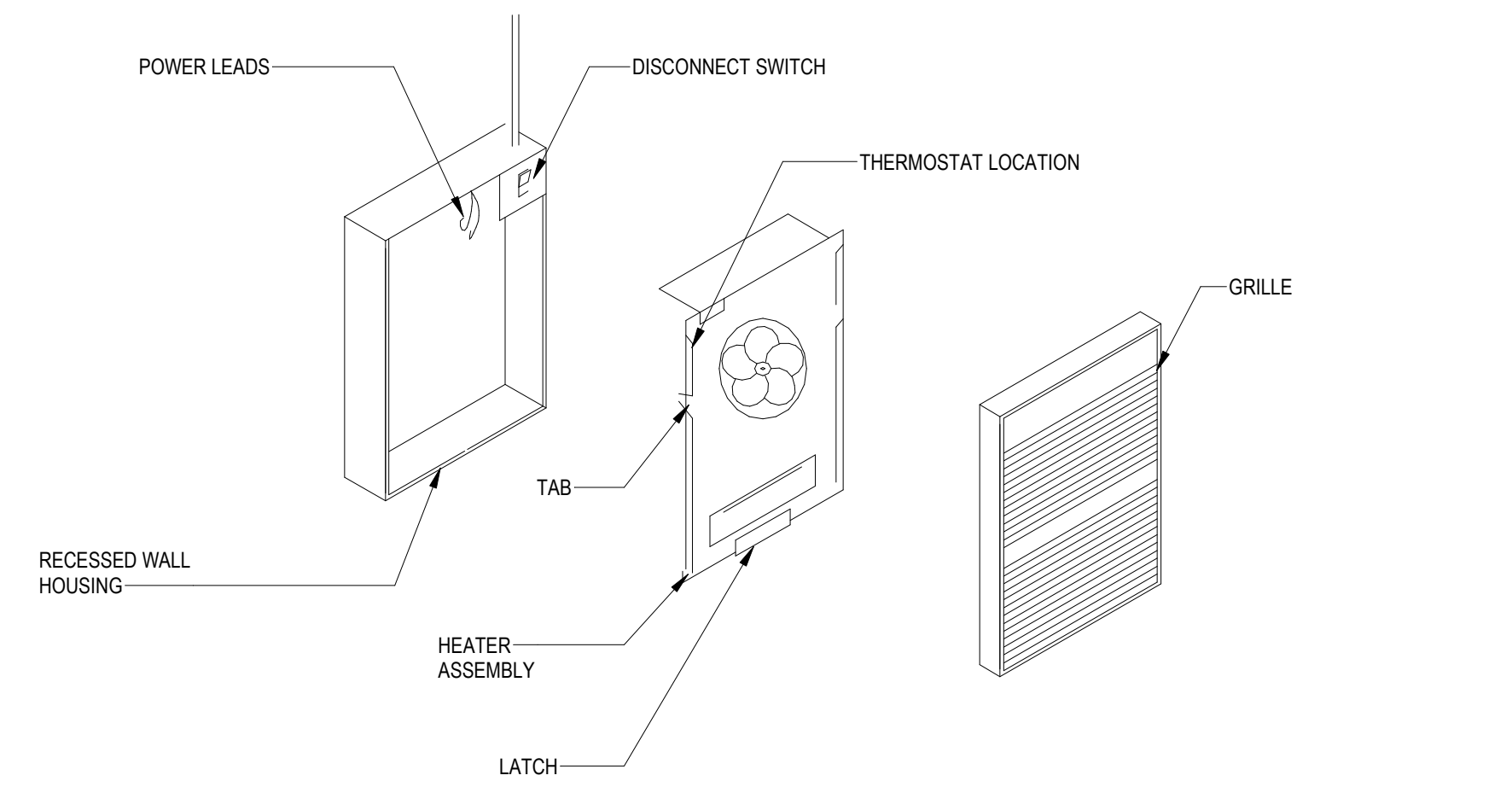
1 BATHROOM EXHAUST FAN DETAIL NOT TO SCALE



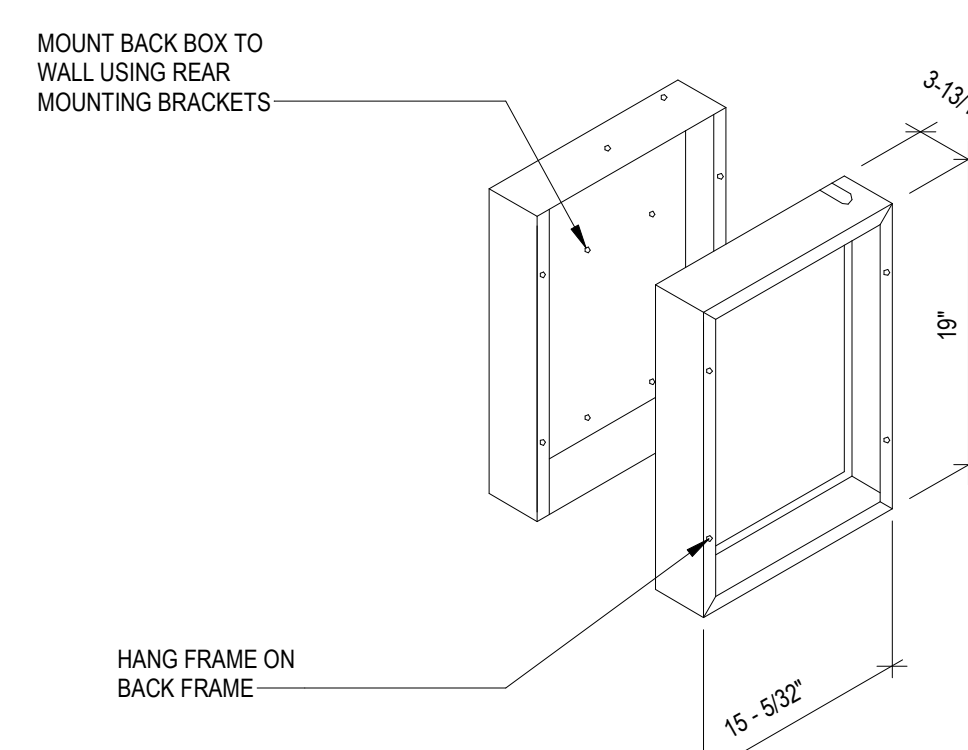
4 DUCT WORK RADIUS ELBOWS DETAIL NOT TO SCALE



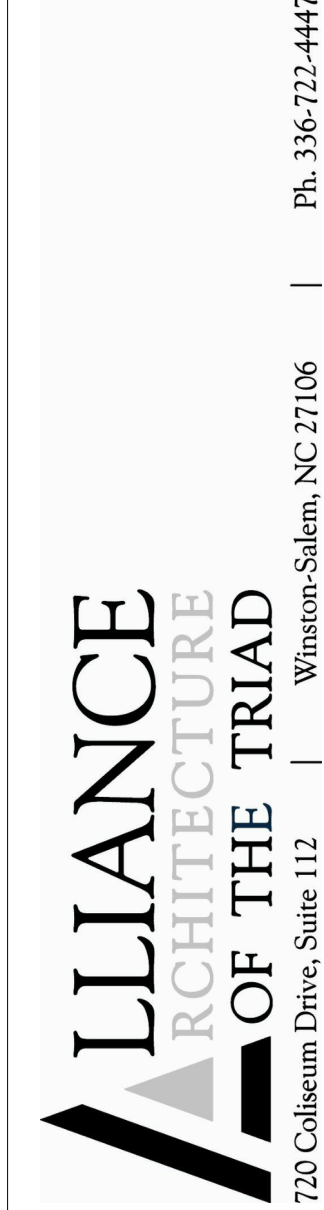
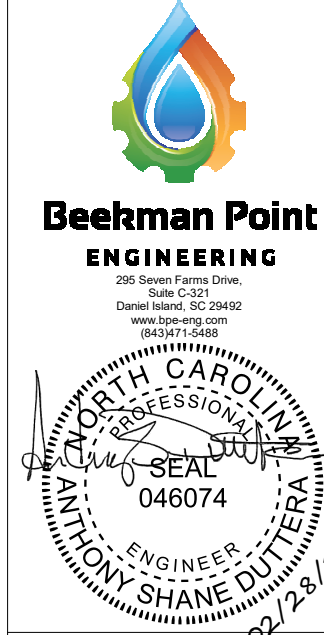
8 TYPICAL CEILING EXHAUST FAN GRILLE DETAIL NOT TO SCALE



- DETAIL NOTES:
1. DO NOT USE A REMOTE THERMOSTAT WITH THIS HEATER. BUILT IN THERMOSTAT CYCLES THE HEATING ELEMENT ONLY. FAN DELAY CONTROL AUTOMATICALLY TURNS FAN ON AND OFF, AND PROVIDES A FAN DELAY OFF FEATURE TO REMOVE RESIDUAL HEAT AFTER THERMOSTAT HAS TURNED HEATING ELEMENTS OFF. WIRING OF HEATER IN ANY MANNER WHICH DEFEATS THE FAN DELAY OFF FEATURE CAN RESULT IN OVERHEATING AND PERMANENT DAMAGE TO THE HEATER, AND WILL VOID THE WARRANTY FOR WALL MOUNTING ONLY WITH AIR DISCHARGE DOWNWARD.
 2. DO NOT INSTALL IN FLOOR, CEILING, UPSIDE DOWN (AIR DISCHARGE UPWARD), OR SIDEWAYS.
 3. DO NOT OPERATE HEATER WITHOUT GRILLE INSTALLED.
 4. MAINTAIN THE FOLLOW CLEARANCES:
 - * BOTTOM OF HEATER TO FLOOR - 8"
 - * SIDES OF HEATER TO ADJACENT WALL - 8"
 - * TOP OF HEATER TO CEILING - 36"
 5. THIS HEATER IS HOT WHEN IN USE. DO NOT INSTALL HEATER BEHIND DOOR, BEHIND TOWEL RACK, INSIDE CLOSET, WHERE DRAPERY COULD TOUCH HEATER OR BE DAMAGED BY HEAT, OR WHERE AIRFLOW TO HEATER MAY BE OBSTRUCTED. KEEP ELECTRICAL CORDS, BEDDING, FURNITURE, AND OTHER ITEMS AWAY FROM HEATER.
 6. HEATER MUST BE CLEANED PERIODICALLY (AT LEAST ANNUALLY) TO ASSURE PROPER PERFORMANCE AND PREVENT OVERHEATING.



9 ELECTRIC WALL HEATER DETAIL NOT TO SCALE

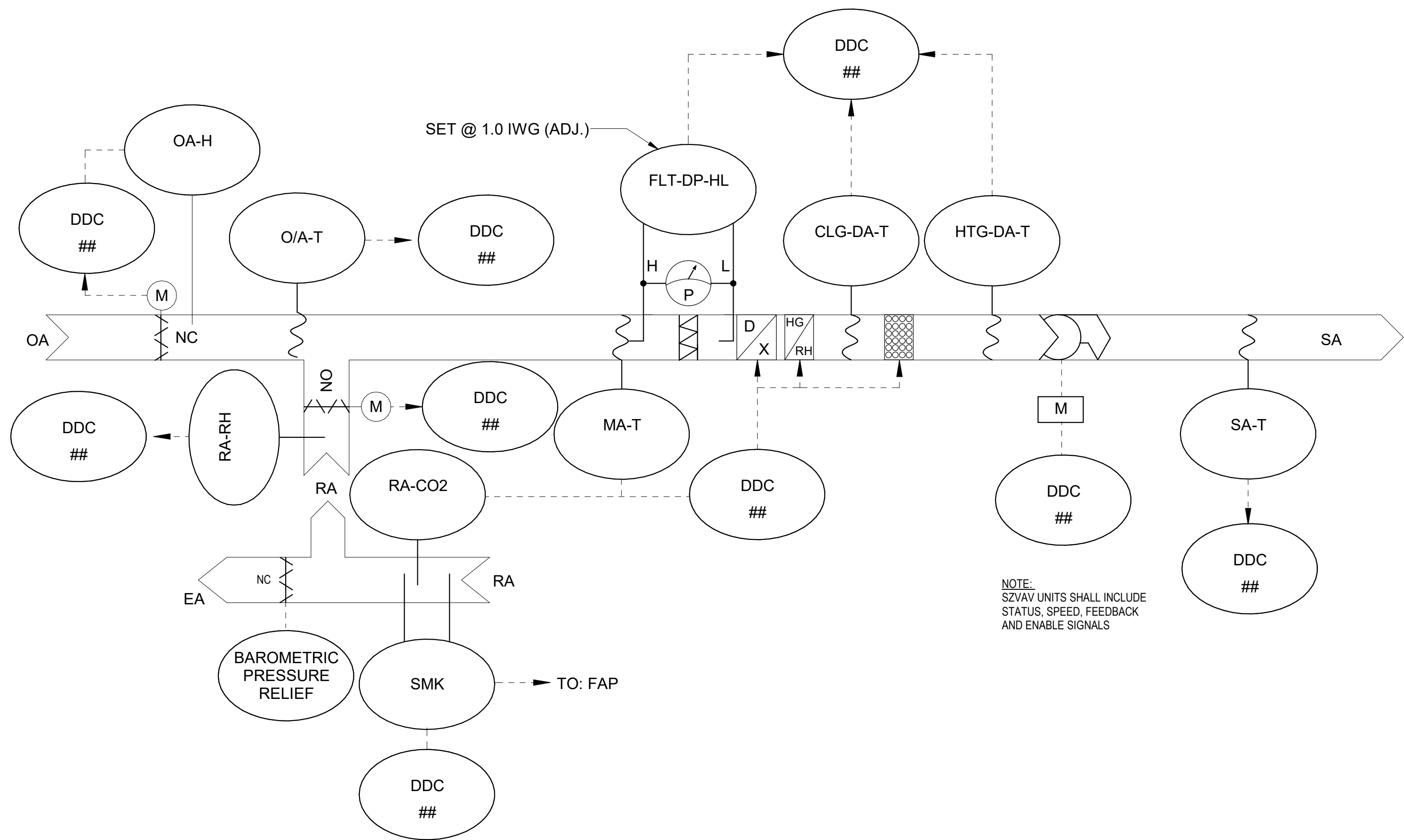


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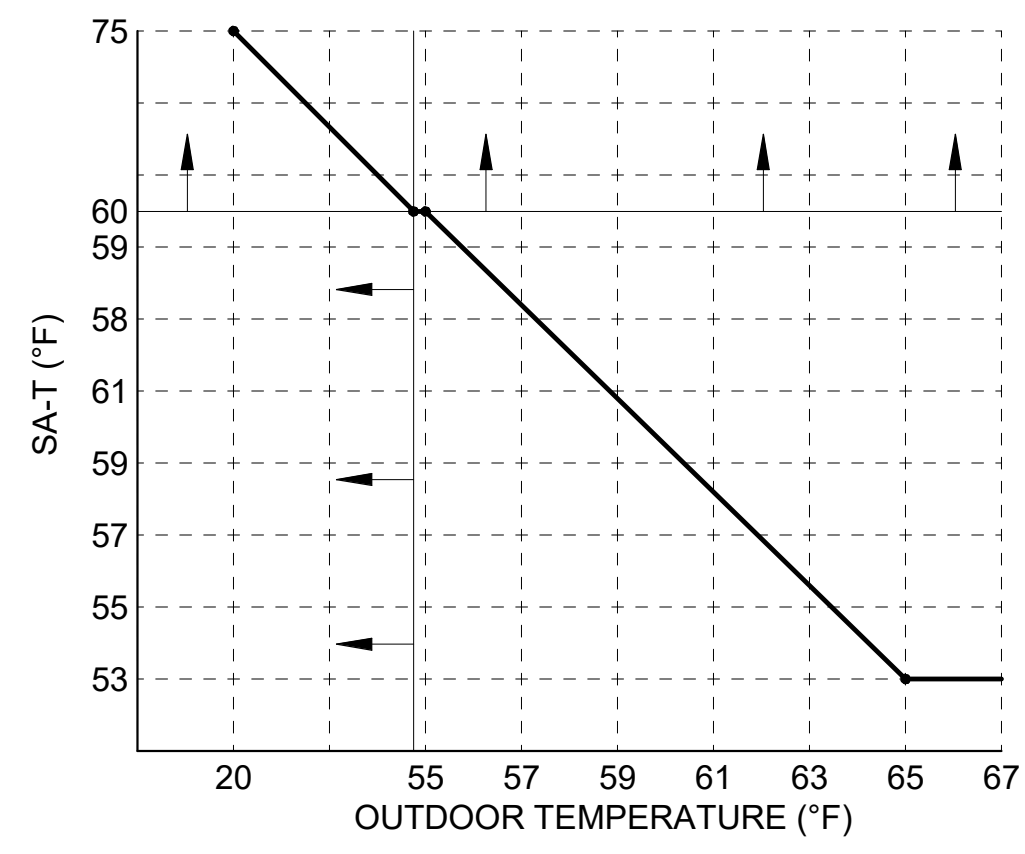
SPRING HOPE RAILROAD DEPOT Interior Renovation
 101 SOUTH ASH STREET
 SPRING HOPE, NORTH CAROLINA 27882

JOB: 240015
 DATE: 02-28-2025
 DRAWN: MB
 SHEET

M-601



1 PACKED HEAT PUMP UNIT CONTROL DIAGRAM
M-701 12" = 1'-0"



SINGLE ZONE VAV PACKED HEAT PUMP SEQUENCE OF OPERATIONS

GENERAL: UNIT IS PACKAGED ROOFTOP UNIT WITH AN OUTSIDE AIR DAMPER, REFERENCE ENTHALPY ECONOMIZER WITH LOW LEAKAGE OUTSIDE AIR DAMPER, VARIABLE SPEED SUPPLY FAN (FOR SZAV ONLY) A FACTORY DEHUMIDIFICATION CYCLE, MODULATING NATURAL GAS HEATING, CONDENSATE HIGH LEVEL SENSOR RETURN AIR HUMIDITY SENSOR, RETURN AIR CO2 SENSOR, SUPPLY AIR TEMPERATURE SENSOR, BAROMETRIC RELIEF DAMPER, AND HOT GAS REHEAT. UNIT SHALL BE FACTORY EQUIPPED WITH A CONTROLS PACKAGE, FREEZE-STAT AND A RETURN AIR SMOKE DETECTOR.

REMOTE OPERATORS INCLUDE: THERMOSTAT WITH COMBINATION OCCUPANCY SENSOR, TEMPERATURE SENSOR, AND SMOKE DETECTOR TIE IN TO THE FIRE ALARM CONTROL PANEL (FACP) (BY FIRE ALARM CONTRACTOR), RTU CONTROLLER AND CONTROL INTEGRATION WITH BAS.

THE CONTROLS CONTRACTOR SHALL CONSULT THE MANUFACTURER DOCUMENTATION FOR SPECIFIC PARAMETERS INCLUDING BUT NOT LIMITED TO MINIMUM RUNTIME AND COMPRESSOR STAGING SETPOINTS.

OPERATION:

THE UNIT SHALL RUN CONTINUOUSLY WHILE OCCUPIED.

OCCUPIED MODE

- UPON THREE SUCCESSFUL OCCUPANCY DETECTIONS IN A 3 MINUTE (ADJ.) WINDOW THE CONTROLLER SHALL IMPLEMENT OCCUPIED SETPOINTS.
- COOLING: 75°F +/- USER ADJUSTABLE 3°F
- HEATING: 68°F +/- USER ADJUSTABLE 3°F

UNOCCUPIED MODE

- UPON 30 MINUTES (ADJ.) ELAPSING WITHOUT AN OCCUPANCY DETECTION, THE CONTROLLER SHALL IMPLEMENT UNOCCUPIED SETPOINTS.
- COOLING: 82°F +/- 3°F DEAD BAND
- HEATING: 65°F +/- 3°F DEAD BAND

SUPPLY FAN CONTROL

- FOR SINGLE ZONE VAV UNITS, THE SUPPLY FAN SPEED SHALL BE CONTROLLED BY FACTORY PROGRAMMED SETTINGS.

OUTSIDE AIR

- OUTSIDE AIR SHALL BE REGULATED BY DEMAND CONTROLLED VENTILATION.
- THE CONTROLLER SHALL MONITOR THE RETURN AIR CO2 CONCENTRATION IN AIR. SHOULD CO2 RISE TO 1000 PPM (ADJ.) THE CONTROLLER SHALL SLOWLY OPEN THE OUTSIDE AIR DAMPER TO PROVIDE UP TO THE SCHEDULED OUTSIDE AIR. WHEN CO2 CONCENTRATION LOWERS TO 500 PPM (ADJ.), THE CONTROLLER SHALL CLOSE THE OUTSIDE AIR DAMPER.

THERMOSTAT CONTROL

- WHEN TEMPERATURE SENSORS ARE SHOWN ON THE PLANS, THE UNIT SHALL MAINTAIN TEMPERATURE BASED ON AVERAGE OF THE MASTER THERMOSTAT AND TEMPERATURE SENSOR TEMPERATURE READINGS.
- WHEN A SINGLE THERMOSTAT IS SHOWN ON THE PLANS, THE UNIT SHALL RESPOND TO THE THERMOSTAT TEMPERATURE READING.

COOLING MODE

- COOLING SHALL BE ENABLED WHEN OUTSIDE AIR TEMPERATURE IS 55°F (ADJ.) OR GREATER. THE CONTROLLER SHALL STAGE THE COOLING OPERATION TO INITIALLY PROVIDE 55°F (ADJ.) SUPPLY AIR TEMPERATURE.
- SUPPLY AIR TEMPERATURE SHALL BE RESET BASED ON OUTSIDE AIR TEMPERATURE IN A LINEAR RAMP. SEE PLANS FOR SA-T vs. OA-T RESET GRAPH.

ECONOMIZER MODE

- THE CONTROLLER SHALL MEASURE THE OUTSIDE AIR TEMPERATURE AND ENTHALPY. ECONOMIZER SHALL BE ENABLED WHEN:
- COOLING IS ACTIVE.
- OA-T IS LESS THAN 45°F.
- OUTSIDE AIR ENTHALPY IS LESS THAN 22 BTU/LBM.
- MODULATE THE OUTSIDE AIR DAMPER TO MAINTAIN SPACE SETPOINTS. THE ECONOMIZER DAMPER SHALL MAINTAIN MINIMUM OR GREATER OUTSIDE AIR PER THE SCHEDULE IN ECONOMIZER MODE.
- THE ECONOMIZER SHALL BE DISENGAGED WHENEVER OUTSIDE AIR TEMPERATURE DROPS TO 45°F (ADJ.) OR HEATING MODE IS ENGAGED.

HEATING MODE

- THE CONTROLLER SHALL ENTER HEATING MODE AND MODULATE THE ELECTRIC HEATER TO PROVIDE 95°F (ADJ.) SUPPLY AIR TEMPERATURE WHENEVER OUTSIDE AIR TEMPERATURE FALLS BELOW 55°F (ADJ.) OR WHEN THE ZONE CALLS FOR HEATING. LIMIT MAXIMUM HEATING SUPPLY TEMPERATURE TO 20°F PLUS ROOM TEMPERATURE. NOT TO EXCEED 120°F.

DEHUMIDIFICATION MODE

- THE CONTROLLER SHALL MEASURE THE RETURN AIR HUMIDITY AND STAGE THE COOLING FUNCTION TO MAINTAIN RETURN AIR HUMIDITY AT OR BELOW 50% RH (ADJ.).
- DURING DEHUMIDIFICATION, THE CONTROLLER SHALL OVERRIDE THE COOLING SEQUENCE TO LOWER COIL TEMPERATURE TO 53°F (ADJ.) AND MODULATE HOT GAS REHEAT TO MAINTAIN SUPPLY AIR AT THE SUPPLY AIR TEMPERATURE COOLING SETPOINT.
- UPON RETURN AIR REDUCING TO 40% (ADJ.) RH OR LOWER, THE CONTROLLER SHALL RESTORE THE NORMAL MODE OF OPERATION.

BUILDING PRESSURE CONTROL

- ADJUST THE BAROMETRIC RELIEF SUCH THAT SPACE PRESSURE IS MAINTAINED AT A SLIGHT POSITIVE PRESSURE (0.1 IN WG).

UNOCCUPIED MODE

- ENTER UNOCCUPIED MODE WHEN ALL ZONES REPORT NO OCCUPANCY DETECTIONS WITHIN A 30 MINUTE (ADJ.) PERIOD.
- WHILE UNOCCUPIED, THE RTU SHALL ENTER STANDBY MODE WITH THE SUPPLY FAN, COMPRESSORS, AND HEATING DISENGAGED.
- DURING UNOCCUPIED CALLS FOR COOLING THE RTU SHALL START IN COOLING MODE UNTIL ALL ZONES ARE SATISFIED THEN RETURN TO STANDBY MODE.
- DURING UNOCCUPIED MODE, WHEN THE ZONE CALLS FOR HEATING, THE RTU SHALL START IN HEATING MODE AND PROVIDE 65°F (ADJ.) SUPPLY AIR UNTIL ALL ZONES ARE SATISFIED, THEN RETURN TO UNOCCUPIED MODE.
- DURING THE HEATING SEASON IMPLEMENT A MORNING WARM UP SUBROUTINE. THE CONTROLLER SHALL START THE SYSTEM 1-HOUR PRIOR TO SCHEDULED OCCUPANCY AND COMMENCE MORNING WARM-UP.

STARTUP SEQUENCE: UPON SIGNAL OR COMMAND TO STARTUP, THE RTU CONTROLLER SHALL:

- OPEN THE OUTSIDE AIR DAMPER.
- UPON PROOF OF OUTSIDE AIR DAMPERS OPEN, START THE SUPPLY FANS.

SHUTDOWN/STANDBY SEQUENCE: UPON A SIGNAL OR COMMAND TO SHUTDOWN, THE RTU CONTROLLER SHALL:

- STOP THE SUPPLY FANS.
- UPON PROOF OF SUPPLY FAN OFF, CLOSE THE OUTSIDE AIR DAMPERS.
- THE SHUTDOWN SEQUENCE SHALL NOT INITIATE UNTIL THE MANUFACTURER MINIMUM RUNTIME IS SATISFIED.

SMOKE DETECTION

- UPON RECEIPT OF A SMOKE DETECTOR ALARM THE CONTROLLER SHALL INITIATE THE SHUTDOWN SEQUENCE AND SIGNAL THE FACP TO PROVIDE AN ALARM. A MANUAL RESET SHALL BE REQUIRED PRIOR TO OPERATION FOLLOWING A SMOKE DETECTOR SHUTDOWN.

FACP ALARM

- FIRE ALARM ACTUATION: THE CONTROLLER SHALL ACCEPT A REMOTE SIGNAL FROM THE FACP. UPON ACTUATION OF A FIRE ALARM FROM THE FACP, THE CONTROLLER SHALL INITIATE THE SHUTDOWN/STANDBY SEQUENCE. A MANUAL RESET SHALL BE REQUIRED PRIOR TO OPERATION FOLLOWING A FACP SHUTDOWN.

FREEZE/STAT ACTUATION

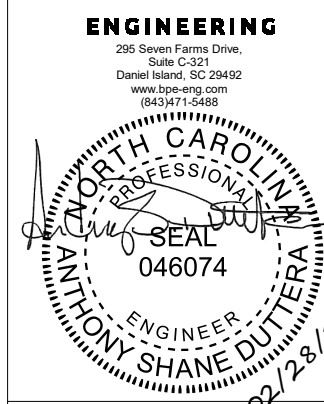
- THE UNIT SHALL ENGAGE THE HEATING OPERATION ANYTIME THE FREEZE/STAT ACTUATES.

HIGH FILTER DIFFERENTIAL PRESSURE

- SHOULD FILTER DIFFERENTIAL PRESSURE EXCEED 1.0" WG OR OTHER PRESSURE AS SPECIFIED BY MANUFACTURER (CONTROLS CONTRACTOR SHALL PROGRAM VALUE FROM RTU MANUAL) A HIGH FILTER DIFFERENTIAL PRESSURE WARNING SHALL BE PROVIDED. SHOULD DIFFERENTIAL PRESSURE EXCEED MANUFACTURER LIMITATIONS, SHUT DOWN THE UNIT.

CONDENSATE HIGH LEVEL

- SHOULD THE CONDENSATE HIGH LEVEL ACTUATE, SHUTDOWN THE UNIT.



ALLIANCE ARCHITECTURE OF THE TRIAD
720 Coliseum Drive, Suite 112 | Winston-Salem, NC 27106 | Ph. 336-722-4447

DATE	02-28-2025
REVISION	ISSUE FOR CONSTRUCTION
NO	0

SPRING HOPE RAILROAD DEPOT Interior Renovation
101 SOUTH ASH STREET
SPRING HOPE, NORTH CAROLINA 27882

JOB 240015
DATE 02-28-2025
DRAWN MB
SHEET

M-701

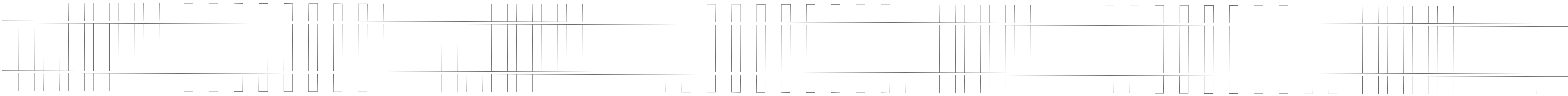
LIGHTING FIXTURE SCHEDULE (SEE NOTES 1,2,3 BELOW)					
TYPE	DESCRIPTION	MANUFACTURER: CATALOG NO.	LIGHT SOURCE	VOLTAGE	NOTES
D2	2" STRIP, WALL MOUNTED, 0-10V DIMMING, 10-100% DIMMING RANGE, ADJUSTABLE LUMENS, ADJUSTABLE COLOR TEMPERATURE	LITHONIA: CSS-L24-AL015-MVOLT-SMW3-80CRI	LED (INCLUDED) 2500 LUMENS 4000K CRI 80+	MVOLT	NOTE 4 19 WATTS
EA	EXIT/EMERGENCY COMBINATION FIXTURE, WALL MOUNTED, WHITE HOUSING, RED LETTERS, 90 MINUTE RUN TIME	LITHONIA: LHOM-LED-R	LED (INCLUDED)	MVOLT	- 5 WATTS
EC	EXIT SIGN, CEILING MOUNTED, WHITE HOUSING, RED LETTERS, 90 MINUTE RUN TIME	LITHONIA: LOM-S-W-3-R-R-MVOLT-EL N	LED (INCLUDED)	MVOLT	- 5 WATTS
ED	EXIT/EMERGENCY COMBINATION FIXTURE, CEILING MOUNTED, WHITE HOUSING, RED LETTERS, 90 MINUTE RUN TIME	LITHONIA: LHOM-LED-R	LED (INCLUDED)	MVOLT	- 5 WATTS
EM	EMERGENCY FIXTURE, WALL MOUNTED, BATTERY BACK UP, WHITE HOUSING, 90 MINUTE RUN TIME	LITHONIA: ELM4L	LED (INCLUDED) 640 LUMENS	MVOLT	- 5 WATTS
ER	EXTERIOR EMERGENCY EGRESS FIXTURE, WET LOCATION RATED, WALL MOUNTED, BATTERY BACK UP, 90 MINUTE RUN TIME, NATURAL ALUMINUM FINISH, WIRED FOR EMERGENCY MODE ONLY	LITHONIA: AFF-OEL-DNA0-UVOLT-LTP-SORT-FCI-CW	LED (INCLUDED)	MVOLT	NOTE 5 12 WATTS
EW	EXTERIOR EXIT SIGN, WET LOCATION RATED, CEILING MOUNTED, GRAY HOUSING, RED LETTERS, 90 MINUTE RUN TIME	LITHONIA: WLTE-CY-1-R-EL	LED (INCLUDED)	-	- 5 WATTS
F1	6" DOWNLIGHT, RECESSED, SELF-FLANGED TRIM, CUSTOM PAINTED FLANGE, SEMI-SPECULAR REFLECTOR, 0-10V DIMMING, 10-100% DIMMING RANGE	LITHONIA: LDN6-40/10-L06-AR-LSS-FCPC-MVOLT-G210	LED (INCLUDED) 1000 LUMENS 4000K CRI 80+	MVOLT	- 11 WATTS
F2	6" DOWNLIGHT, RECESSED, SELF-FLANGED TRIM, SEMI-SPECULAR REFLECTOR, 0-10V DIMMING, 10-100% DIMMING RANGE	LITHONIA: LDN6-40/15-L06-AR-LSS-MVOLT-G210	LED (INCLUDED) 1500 LUMENS 4000K CRI 80+	MVOLT	- 18 WATTS
F3	6" DOWNLIGHT, RECESSED, SELF-FLANGED TRIM, SEMI-SPECULAR REFLECTOR, 0-10V DIMMING, 10-100% DIMMING RANGE	LITHONIA: LDN6-40/20-L06-AR-LSS-MVOLT-G210	LED (INCLUDED) 2000 LUMENS 4000K CRI 80+	MVOLT	- 23 WATTS
F4	6" WALL WASH DOWNLIGHT, RECESSED, SELF-FLANGED TRIM, SEMI-SPECULAR REFLECTOR, 0-10V DIMMING, 1-100% DIMMING RANGE	LITHONIA: LDN6-40/10-L06-AR-LSS-MVOLT-G21	LED (INCLUDED) 1000 LUMENS 4000K CRI 80+	MVOLT	NOTE 6 11 WATTS
P1	18" DIAMETER GLOBE, SCHOOL HOUSE FIXTURE, PENDANT MOUNTED, 0-10V DIMMING, ARCHITECTURAL BRONZE FINISH	BASELITE: SCP-SHO18-XX-XX-XX-XX-50W-4K-LDMO-10	LED (INCLUDED) 5750 LUMENS 4000K CRI 80+	MVOLT	NOTES 7,9 50 WATTS
P2	12" DIAMETER GLOBE, SCHOOL HOUSE FIXTURE, PENDANT MOUNTED, 0-10V DIMMING, ARCHITECTURAL BRONZE FINISH	BASELITE: SCP-SHO12-XX-XX-XX-XX-25W-4K-LDMO-10	LED (INCLUDED) 2800 LUMENS 4000K CRI 80+	MVOLT	NOTES 7,9 25 WATTS
P3	27" DIAMETER WAREHOUSE SHADE, WET LOCATION RATED, PENDANT MOUNTED, WIRE GRILL, 0-10V DIMMING, WIDE DISTRIBUTION, DARK GRAY FINISH	ANP LIGHTING: WS27-M024LD0-W-XX-XX-XX-XX-XX-XX-GR27-XX-UNV	LED (INCLUDED) 3000 LUMENS 5000K CRI 80+	MVOLT	NOTES 7,9,10 25 WATTS
P3/EM	27" DIAMETER WAREHOUSE SHADE, WET LOCATION RATED, PENDANT MOUNTED, WIRE GRILL, 0-10V DIMMING, WIDE DISTRIBUTION, BATTERY BACK UP, DARK GRAY FINISH	ANP LIGHTING: WS27-M024LD0-W-XX-XX-XX-XX-XX-XX-XX-EMG-LED16-GR27-XX-UNV	LED (INCLUDED) 3000 LUMENS 5000K CRI 80+	MVOLT	NOTES 7,9,10 25 WATTS
P4	WALL MOUNTED SIGN LIGHT, WET LOCATION RATED, 0-10V DIMMING, DARK GRAY FINISH	BASELITE: AB10-XX-E1-XX-XX-XX-12W-SK-LDMO-10-XX-XX	LED (INCLUDED) 1500 LUMENS 5000K CRI 80+	MVOLT	NOTE 7,9 12 WATTS
S1	EXTERIOR VAPOR JAR SCIENCE, WALL MOUNTED, WET LOCATION RATED, WIRE GUARD, 0-10V DIMMING, WROUGHT IRON FINISH	BASELITE: HW2-XX-XX-XX-XX-XX-LED25W-40K-LDMO-10-XX-XX	LED (INCLUDED) 1500 LUMENS 5000K CRI 80+	MVOLT	NOTES 7,9 25 WATTS
T1	CEILING MOUNTED TRACK, ADJUSTABLE TRACK HEADS, ADJUSTABLE BEAM SPREAD, DIMMABLE, BLACK FINISH	JUNO: R620L-40K-80CRI-PDIM-VBS-BL	LED (INCLUDED) 1200 LUMENS 4000K CRI 80+	120V	NOTE 7,8 15 WATTS
Z1	52" CEILING FAN, NO LIGHT KIT, 5 BLADES, OIL RUBBED BRONZE FINISH, WALNUT PECAN BLADES	MAXIM LIGHTING: 89905-DWP	-	120V	-

NOTES:

- CONTRACTOR TO VERIFY ALL LIGHTING SPECIFICATIONS, FIXTURE REQUIREMENTS, MOUNTING HARDWARE, AND REQUIRED TRIMS WITH OWNER AND ARCHITECT PRIOR TO ORDERING/PURCHASE OF FIXTURES.
- LIGHTING FIXTURE CATALOG NUMBERS ARE INDICATIVE OF THE STYLE OF FIXTURE REQUIRED. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH FIELD CONDITIONS, ARCHITECT'S FINISH SCHEDULE, AND ARCHITECTURAL RCP TO PROVIDE FIXTURES WITH PROPER TRIM, VOLTAGE, MOUNTING HARDWARE, AND OPTIONS NECESSARY FOR A COMPLETE INSTALLATION. CONTRACTOR TO VERIFY FIXTURE FINISHES WITH OWNER AND ARCHITECT PRIOR TO ORDERING/PURCHASE OF FIXTURES.
- REGARDLESS OF MODEL NUMBER, THE ELECTRICAL CONTRACTOR SHALL PROVIDE DIMMING DRIVERS FOR ALL LIGHTING FIXTURES INDICATED TO BE CONTROLLED WITH DIMMING SWITCHES.
- WHEN INSTALLED, ADJUSTABLE LUMENS AND COLOR TEMPERATURE TO BE SET AS SCHEDULED.
- FIXTURE TO BE INSTALLED AS "NORMALLY OFF" AND OPERATE ONLY IN EMERGENCY MODE.
- COORDINATE AIMING OF WALL WASH FIXTURE WITH OWNER IN FIELD.
- COORDINATE ALL REQUIREMENTS FOR FIXTURE SHADE, GLASS, FINISH, MOUNTING, COLORS, ETC. WITH ARCHITECT PRIOR TO ORDERING/PURCHASE.
- PROVIDE MANUFACTURER'S RECOMMENDED TRACK. COORDINATE TRACK MOUNTING, FINISH, AND LENGTH WITH ARCHITECT. TRACK LIGHTING SHALL BE AIMED PER ARCHITECT'S DIRECTION.
- CONTRACTOR TO SUBMIT COLOR SAMPLE TO ARCHITECT/OWNER FOR APPROVAL PRIOR TO ORDERING/PURCHASING FIXTURE.
- IF CCT OF 5000K IS NOT AVAILABLE, CONTRACTOR TO CONFIRM WITH OWNER IF CCT OF 4000K IS ACCEPTABLE.

54 POLE: SURFACE MOUNTED BOLT-IN BREAKERS LOCATION: CATERER FOOD STOR. FED FROM DISCONNECT A										PANEL A										PNL VOLTAGE: 208Y/120V, 3P, 4W PNL A/C (RMS): VERIBY									
CKT.	AMP	POLE	WIRE SIZES			CONDUIT SIZE	LOADS (VA)			EQUIPMENT	EQUIPMENT	LOADS (VA)			CONDUIT SIZE			WIRE SIZES			POLE	AMP	CKT.						
			PH	NEUT	EGC		AØ	BØ	CØ			AØ	BØ	CØ	SIZE	EGC	NEUT	PH											
1	20	1	12	12	12	1/2"	655			LTG: INTERIOR OVERHEAD	A												2						
3	20	1	12	12	12	1/2"	275			LTG: EXT. SCNCES	B	HP-1	9703	1.25"	6								4						
5	20	1	12	12	12	1/2"		500		BACKFLOW HEAT TAPE ^^	C												6						
7	20	1	12	12	12	1/2"	500			LTG: ATTIC/CRAWL SPACE	A	DCP-1	216	1/2"	12	12	12	1	20				8						
9								2000			B	MICROWAVE	1560	1/2"	12	12	12	1	20				10						
11	25	3	10		10	3/4"		2000		WH-1 **	C	REC: CATERER FOOD PREP	360	1/2"	12	12	12	1	20				12						
13								2000			A	REC: CATERER FOOD PREP	540	1/2"	12	12	12	1	20				14						
15	20	1	12	12	12	1/2"		1080		REC: CORRIDOR/RESTROOMS ^	B	REFRIGERATOR	648	1/2"	12	12	12	1	20				16						
17	20	1	12	12	12	1/2"		720		REC: NETWORK ROOM	C	MOBILE WARMING CABINET	2004	1/2"	12	12	12	1	20				18						
19	20	1	12	12	12	1/2"		720		REC: NETWORK ROOM	A	REC: EVENTS ROOM	1080	1/2"	12	12	12	1	20				20						
21	20	1	12	12	12	1/2"		900		REC: EVENTS ROOM	B	REC: STAGE	360	1/2"	12	12	12	1	20				22						
23	20	1	12	12	12	1/2"		360		REC: STAGE	C	REC: STAGE	360	1/2"	12	12	12	1	20				24						
25	20	1	12	12	12	1/2"		360		REC: STAGE	A	REC: FLOORBOX	360	1/2"	12	12	12	1	20				26						
27	20	1	12	12	12	1/2"		800		DRY SPRINKLER AIR COMP	B	REC: EXTERIOR	720	1/2"	12	12	12	1	20				28						
29	20	1	12	12	12	1/2"		1260		REC: ROOF	C	REC: EXTERIOR	720	1/2"	12	12	12	1	20				30						
31	20	1	12	12	12	1/2"		500		SPRINKLER RISER HEAT TAPE ^^	A	WATER COOLER CHILLER	600	1/2"	12	12	12	1	20				32						
33	20	1	12	12	12	1/2"		500		CABOOSE POWER **	B	CABOOSE POWER **	500	1/2"	12	12	12	1	20				34						
35	20	1	12	12	12	1/2"		500		CABOOSE POWER **	C	CABOOSE POWER **	500	1/2"	12	12	12	1	20				36						
37	20	1	12	12	12	1/2"	1680			PADOLE FANS	A	LTG: TRACK LIGHTING	540	1/2"	12	12	12	1	20				38						
39	20	1	12	12	12	1/2"		1250		LTG: EVENT PENDANTS	B	SPARE											40						
41	20	1	-	-	-	-				SPARE	C	SPARE											42						
43	20	1	-	-	-	-				SPARE	A	SPARE											44						
45	20	1	-	-	-	-				SPARE	B	SPARE											46						
47	20	1	-	-	-	-				SPARE	C	SPARE											48						
49	20	1	-	-	-	-				SPARE	A	SPARE	6888										50						
51	20	1	-	-	-	-				SPARE	B	PANEL B	6187										52						
53	20	1	-	-	-	-				SPARE	C	SPARE	6825										54						
* = PROVIDE LOCK ON DEVICE										TOTAL										DEMAND LOAD SUMMARY									
** = PROVIDE LOCK OFF DEVICE										AØ BØ CØ										3812 VA LIGHTING (CONNECTED X 100%)									
^ = PROVIDE GFCI CIRCUIT BREAKER										AØ BØ CØ										12420 VA RECEPTACLES (GENERAL PURPOSE)									
^^ = PROVIDE EQUIPMENT GROUND FAULT CIRCUIT BREAKER (30 MILLIAMP GROUND FAULT)										AØ BØ CØ										12308 VA RECEPTACLES (DEDICATED)									
										TOTAL CONNECTED VA										36388 VA HVAC (LARGEST X 125%)									
										AØ BØ CØ										8988 VA HVAC (REMAINDER X 100%)									
										TOTAL CONNECTED VA										12000 VA WATER HEATING (CONNECTED X 100%)									
										AØ BØ CØ										0 VA NONCOINCIDENT (CONNECTED X 0%)									
										TOTAL CONNECTED VA										85914 = TOTAL DEMAND VA									
										AØ BØ CØ										239 = TOTAL DEMAND AMPS									
										TOTAL CONNECTED VA										218 = TOTAL CONNECTED AMPS									
										AØ BØ CØ																			

42 POLE: SURFACE MOUNTED BOLT-IN BREAKERS LOCATION: JANITOR CLOSET 123 FED FROM PANEL A										PANEL B										PNL VOLTAGE: 208Y/120V, 3P, 4W PNL A/C (RMS): VERIBY									
CKT.	AMP	POLE	WIRE SIZES			CONDUIT SIZE	LOADS (VA)			EQUIPMENT	EQUIPMENT	LOADS (VA)			CONDUIT SIZE			WIRE SIZES			POLE	AMP	CKT.						
			PH	NEUT	EGC		AØ	BØ	CØ			AØ	BØ	CØ	SIZE	EGC	NEUT	PH											
1	20	1	12	12	12	1/2"	217			LTG: INT. COTTON PLATFORM	A												2						
3	20	1	12	12	12	1/2"		540		REC: CORR/JAN ^	B	WH-2 **	2000	3/4"	10								4						
5	20	2	12		12	1/2"		749		ECH-2	C		2000										6						
7								749			A	ECH-1	749	1/2"	12								8						
9								1498			B	ECH-4	749	1/2"	12								10						
11								1498			C	ECH-3	1498	1/2"	12								12						
13	20	1	12	12	12	1/2"	375			LTG: EXT. COTTON PLATFORM	A												14						
15	20	1	12	12	12	1/2"		500		FIRE ALARM CONTROL PANEL ~	B	REC: EVENTS PLATFORM	900	1/2"	12	12	12	1	20				16						
17	20	1	12	12	12	1/2"		180		REC: EVENTS PLATFORM	C	REC: EVENTS PLATFORM	900	1/2"	12	12	12	1	20				18						
19	20	1	12	12	12	1/2"	500			SPRINKLER RISER HEAT TAPE ^^	A	DRY SPRINKLER AIR COMP	800	1/2"	12	12	12	1	20				20						
21	20	1	-	-	-	-				SPARE	B	SPARE											22						
23	20	1	-	-	-	-				SPARE	C	SPARE											24						
25	20	1	-	-	-	-				SPARE	A	SPARE											26						
27	20	1	-	-	-	-				SPARE	B	SPARE											28						
29	20	1	-	-	-	-				SPARE	C	SPARE											30						
31	20	1	-	-	-	-				SPARE	A	SPARE											32						
33	20	1	-	-	-	-				SPARE	B	SPARE											34						
35	20	1	-	-	-	-				SPARE	C	SPARE																	

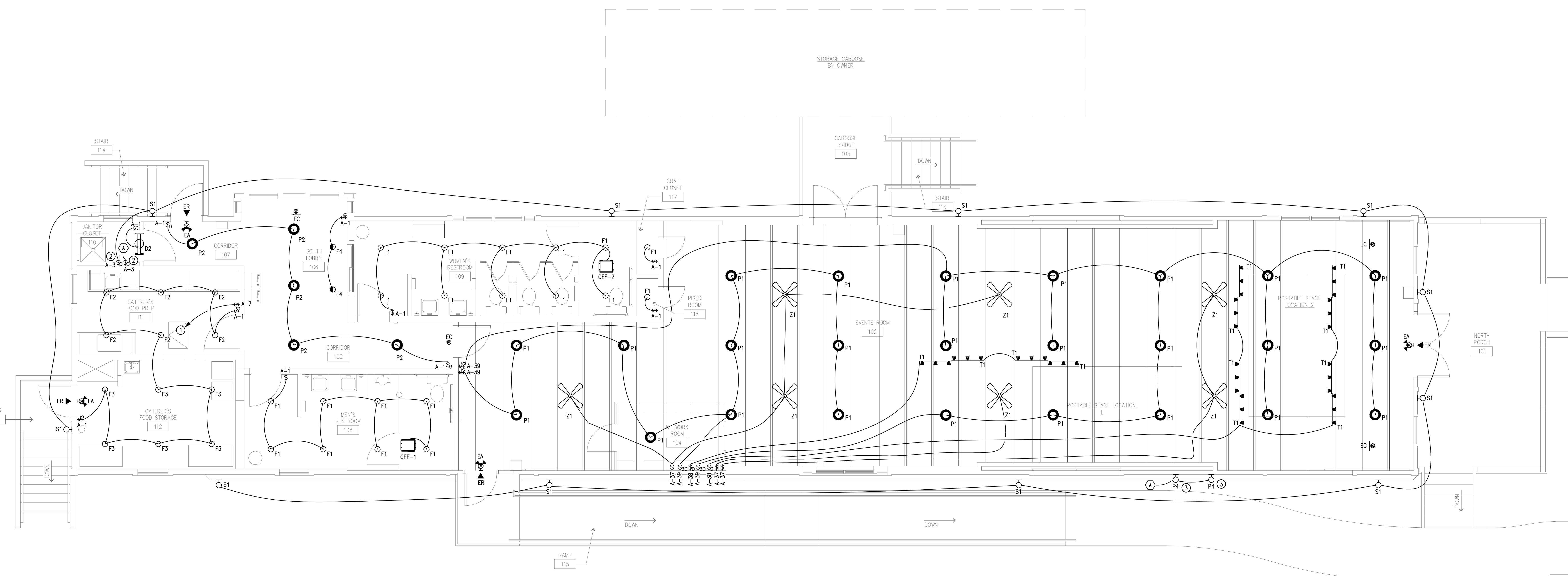


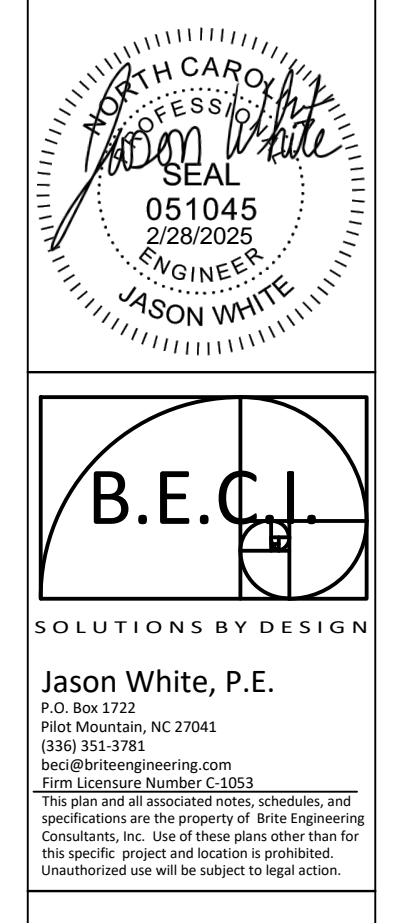
ELECTRICAL GENERAL NOTES:

1. ALL CONDUIT IS TO BE RUN INSIDE THE CRAWL SPACE, ATTIC, OR ENCLOSED WALL CAVITY WHENEVER POSSIBLE. ANY EXPOSED CONDUIT TO BE PAINTED PER ARCHITECTS SPECIFICATIONS.
 2. ALL ELECTRICAL DEVICES ARE TO BE FED FROM BELOW THE FLOOR WHENEVER POSSIBLE.
 3. COORDINATE ALL LIGHTING SWITCH LOCATIONS WITH ARCHITECT/OWNER PRIOR TO ROUGH-INS.
- ⊖ **ELECTRICAL KEYED NOTES:**
1. PROVIDE LIGHTING AS REQUIRED BY CODE IN ATTIC. CONNECT LIGHTING TO SWITCH AND CIRCUIT AS INDICATED.
 2. CONNECT TO PHOTOCELL. INSTALL PHOTOCELL SO IT HAS UNOBSTRUCTED VIEW OF THE NORTH SKY.
 3. FIXTURES TO BE MOUNTED OVER NEW BUILDING SIGN. COORDINATE LOCATION WITH ARCHITECTURAL ELEVATIONS.

B.E.C.I.
 SOLUTIONS BY DESIGN
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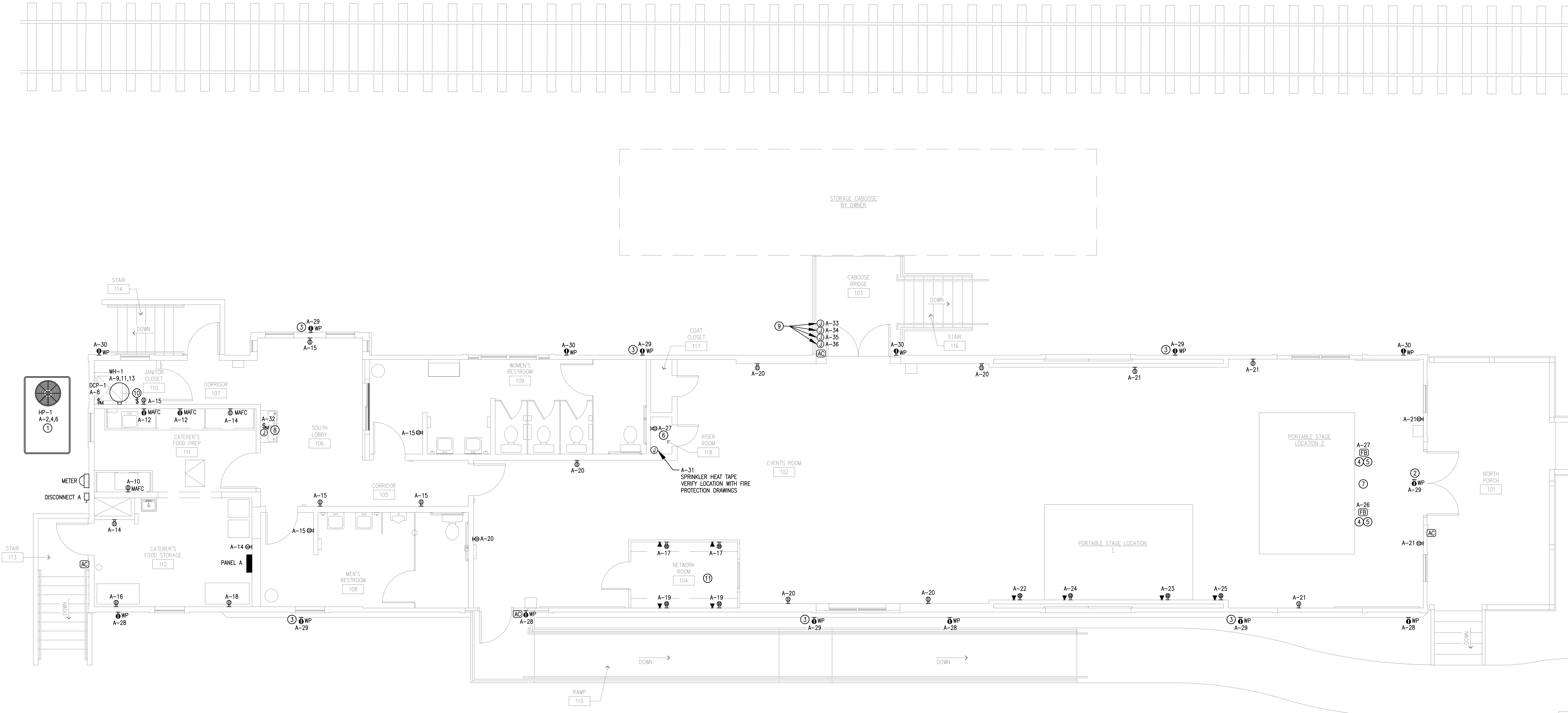
ALLIANCE ARCHITECTURE OF THE TRIAD
 2601 Pilgrim Court, Suite 130 | Winston-Salem, NC 27106
 336-732-4447

REVISIONS


SPRING HOPE RAILROAD DEPOT
 Building Rehabilitation & Platform Addition
 101 South Ash Street
 Spring Hope, North Carolina 27882

JOB # 23081 BECI PROJ. # 24-035
 DATE 02/28/2025
 DRAWN jmw
 SHEET
E-2.1
 OF 9

- ELECTRICAL KEYED NOTES:**
- UNIT PROVIDED WITH INTEGRAL DISCONNECT, 120V SERVICE RECEPTACLE AND SINGLE POINT POWER CONNECTION.
 - LOCATED ON ROOF FOR HOLIDAY LIGHTING CONNECTION. VERIFY LOCATION WITH OWNER IN FIELD. RECEPTACLE TO BE CONTROLLED BY SWITCH INDICATED IN JANITORS CLOSET 110.
 - LOCATED UNDER ROOF EAVE FOR HOLIDAY LIGHTING CONNECTION. VERIFY LOCATION WITH OWNER IN FIELD. RECEPTACLE TO BE CONTROLLED BY SWITCH INDICATED IN JANITORS CLOSET 110.
 - FLOOR BOX SHALL BE FLUSH, 4-GANG, CAST IRON. PROVIDE (2) NEMA 5-20 RECEPTACLES AND PROVISIONS FOR (2) DATA OUTLETS. PROVIDE FLUSH COVER. ARCHITECT TO CONFIRM COVER COLOR. RECEPTACLE AND DATA OUTLET SHALL BE RECESSED IN BOX AND CONCEALED BY COVER WHEN IN USE.
 - PROVIDE (1) 1" CONDUIT BETWEEN FLOOR BOXES FOR LOW-VOLTAGE WIRING BY OTHERS AND PROVIDE (1) 1" CONDUIT TO NETWORK ROOM FOR LOW-VOLTAGE WIRING BY OTHERS.
 - COORDINATE LOCATION WITH DRY PIPE SPRINKLER AIR COMPRESSOR.
 - COORDINATE LOCATION OF FLOOR BOXES WITH PORTABLE STAGE.
 - COORDINATE LOCATION WITH REMOTE CHILLER FOR WATER COOLER.
 - PROVIDE JUNCTION BOX AND DEDICATED CIRCUIT AS INDICATED, IN CRAWL SPACE, FOR FUTURE CABOOSE LIGHTING AND POWER BY OTHERS. VERIFY LOCATION AND REQUIREMENTS WITH OWNER.
 - CONNECT SWITCH TO RECEPTACLES SERVING HOLIDAY LIGHTING. VERIFY LOCATION WITH OWNER.
 - PROVIDE CONDUIT FROM NETWORK ROOM TO LOCATIONS SPECIFIED BY THE OWNER FOR PAGING SYSTEM, SOUND SYSTEM, AND WIFI. VERIFY REQUIREMENTS AND LOCATIONS WITH OWNER.
- ELECTRICAL GENERAL NOTES:**
- CONTRACTOR SHALL COORDINATE ALL ELECTRICAL REQUIREMENTS WITH APPLIANCES PROVIDED BY OTHERS.
 - EXACT LOCATION OF MECHANICAL, PLUMBING, KITCHEN, OWNER FURNISHED EQUIPMENT, ETC. THAT REQUIRE ELECTRICAL CONNECTIONS ARE SHOWN ON THE MECHANICAL, PLUMBING, AND/OR ARCHITECTURAL DRAWINGS. COORDINATE EXACT LOCATIONS WITH RESPECTIVE CONTRACTORS AND/OR VENDORS PRIOR TO ANY ROUGH-INS.
 - PRIOR TO ROUGH-IN, REVIEW AND COORDINATE WITH ALL OTHER TRADES' CONTRACT DOCUMENTS TO DETERMINE SPECIFIC MOUNTING LOCATIONS, AND ELECTRICAL REQUIREMENTS (VOLTAGE, PHASE, KW, HP, CONNECTION TYPE, ETC.) FOR HVAC AND PLUMBING EQUIPMENT. COORDINATE EXACT MOUNTING LOCATIONS WITH THE SPECIFIC TRADE AND ARCHITECT.
 - ALL CONDUIT IS TO BE RUN INSIDE THE CRAWL SPACE, ATTIC, OR ENCLOSED WALL CAVITY WHENEVER POSSIBLE. ANY EXPOSED CONDUIT TO BE PAINTED PER ARCHITECTS SPECIFICATIONS.
 - ALL ELECTRICAL DEVICES ARE TO BE FED FROM BELOW THE FLOOR WHENEVER POSSIBLE.



DEPOT HVAC
 ELECTRICAL AND
 POWER PLAN
 E-2.1 SCALE: 1/4" = 1' - 0"



B.E.C.I.

 SOLUTIONS BY DESIGN

Jason White, P.E.

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 Wilson, NC 27156

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Item Inventory Number C-1023

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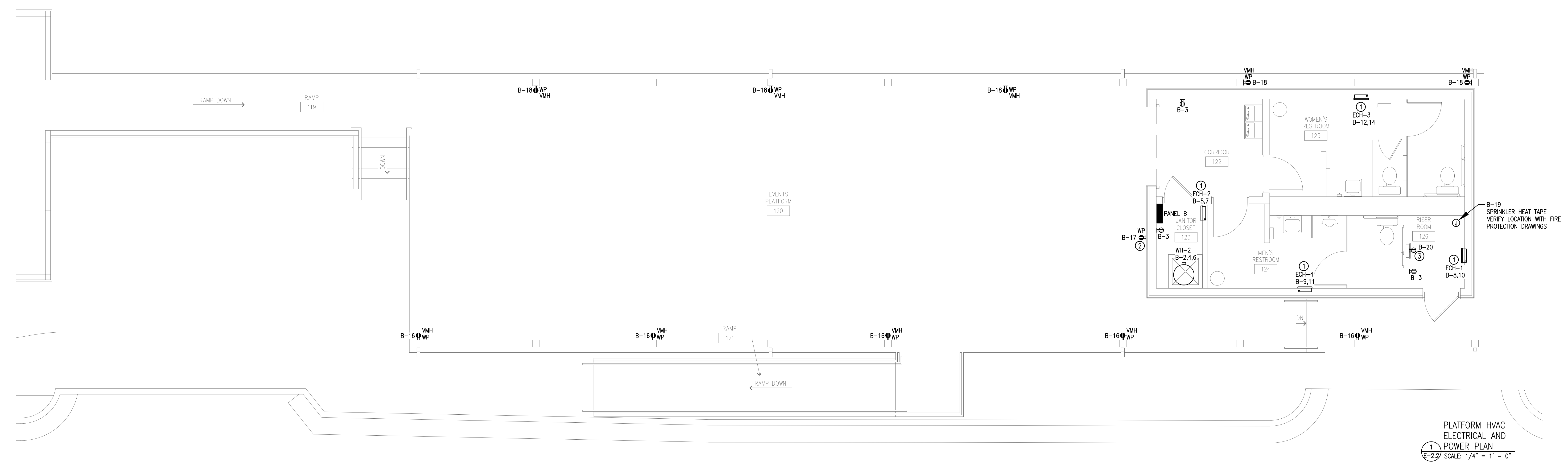
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ELECTRICAL KEYED NOTES:

1. UNIT PROVIDED WITH INTEGRAL DISCONNECT.
2. PROVIDE VANDAL-RESISTANT, CAST ALUMINUM, WEATHERPROOF COVER, EQUIVALENT TO LEGRAND WUCAST1.
3. COORDINATE LOCATION WITH DRY PIPE SPRINKLER AIR COMPRESSOR.

ELECTRICAL GENERAL NOTES:

1. CONTRACTOR SHALL COORDINATE ALL ELECTRICAL REQUIREMENTS WITH APPLIANCES PROVIDED BY OTHERS.
2. EXACT LOCATION OF MECHANICAL, PLUMBING, KITCHEN, OWNER FURNISHED EQUIPMENT, ETC. THAT REQUIRE ELECTRICAL CONNECTIONS ARE SHOWN ON THE MECHANICAL, PLUMBING, AND/OR ARCHITECTURAL DRAWINGS. COORDINATE EXACT LOCATIONS WITH RESPECTIVE CONTRACTORS AND/OR VENDORS PRIOR TO ANY ROUGH-INS.
3. PRIOR TO ROUGH-IN, REVIEW AND COORDINATE WITH ALL OTHER TRADES' CONTRACT DOCUMENTS TO DETERMINE SPECIFIC MOUNTING LOCATIONS, AND ELECTRICAL REQUIREMENTS (VOLTAGE, PHASE, KW, HP, CONNECTION TYPE, ETC.) FOR HVAC AND PLUMBING EQUIPMENT. COORDINATE EXACT MOUNTING LOCATIONS WITH THE SPECIFIC TRADE AND ARCHITECT.
4. ALL CONDUIT IS TO BE RUN INSIDE THE CRAWL SPACE, ATTIC, OR ENCLOSED WALL CAVITY WHENEVER POSSIBLE. ANY EXPOSED CONDUIT TO BE PAINTED PER ARCHITECTS SPECIFICATIONS.
5. ALL ELECTRICAL DEVICES ARE TO BE FED FROM BELOW THE FLOOR WHENEVER POSSIBLE.





ALLIANCE

ARCHITECTURE

OF THE TRIAD

 2601 Pilgrim Court, Suite 130 | Wilson-Salem, NC 27106 | Ph. 336-722-4447

NO.	DATE	DESCRIPTION

REVISIONS

ALLIANCE ARCHITECTURE OF THE TRIAD, PC

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SPRING HOPE RAILROAD DEPOT
 Building Rehabilitation & Platform Addition
 101 South Ash Street
 Spring Hope, North Carolina 27882

JOB #	BECI PROJ. #
23081	24-035
DATE	02/28/2025
DRAWN	JM
SHEET	E-2.2
OF	9

