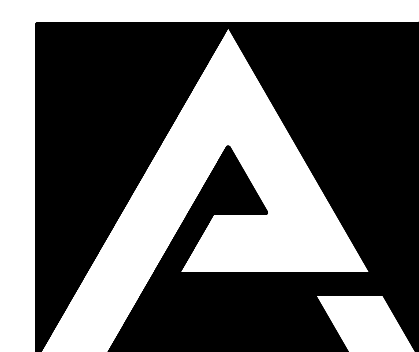
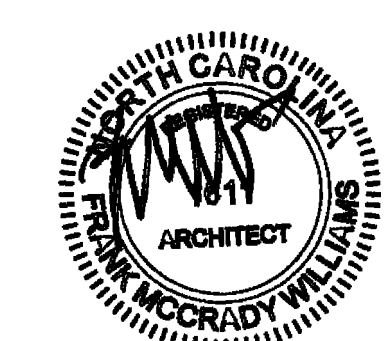


**CONCORD FIRE DEPT. #6 /
POLICE DEPT. DAVID DISTRICT
9105 AVIATION BLVD. NW
CONCORD, NORTH CAROLINA
CABARRUS COUNTY**

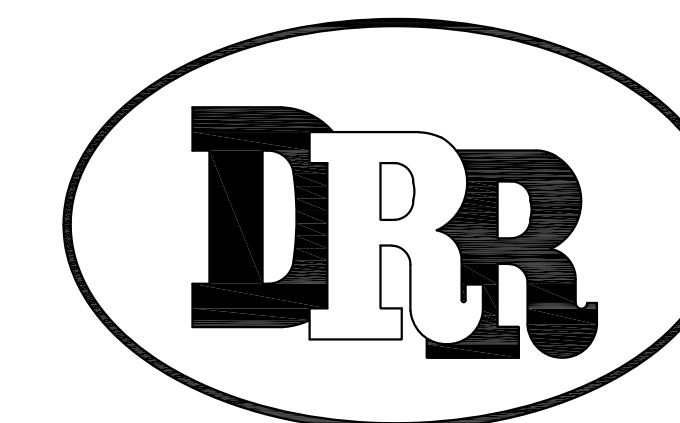


A1.0	COVER SHEET	S0.1	STRUCT. NOTES & DESIGN CRITERIA
A1.1	CODE SUMMARY	S0.2	SPECIAL INSPECTIONS
A1.2	LIFE SAFETY PLAN	S1.1	FOUNDATION PLAN
A1.3	UL DETAILS	S1.2	SECOND FLOOR FRAMING PLAN
A1.4	UL DETAILS	S1.3	ROOF FRAMING PLAN
A1.5	UL DETAILS	S2.1	ELEVATOR PLANS AND BRACE ELEV.
A1.6	ACCESSIBILITY REQUIREMENTS	S2.2	ELEVATOR SHAFT SECTIONS
		S2.3	MASONRY WALL ELEVATIONS
C-1.0	EXISTING CONDITIONS	S2.4	MASONRY WALL ELEVATIONS
C-2.0	SITE PLAN	S3.1	FOUNDATION DETAILS
C-2.1	LANDSCAPING PLAN	S3.2	FOUNDATION DETAILS
C-3.0	EROSION CONTROL PLAN	S3.3	FLOOR FRAMING DETAILS
C-4.0	GRADING PLAN	S3.4	FLOOR FRAMING DETAILS
C-5.0	UTILITY PLAN	S3.5	FLOOR FRAMING DETAILS
C-6.0	DETAILS & SPECIFICATIONS	S3.6	ROOF FRAMING DETAILS
C-6.1	DETAILS & SPECIFICATIONS	S3.7	ROOF FRAMING DETAILS
C-6.2	DETAILS & SPECIFICATIONS	S3.8	LSF FRAMING DETAILS
C-6.3	DETAILS & SPECIFICATIONS	S4.1	LSF FRAMING ELEVATIONS
C-6.4	DETAILS & SPECIFICATIONS	S4.2	LSF FRAMING ELEVATIONS
C-6.5	DETAILS & SPECIFICATIONS	S4.3	LSF FRAMING ELEVATIONS
C-6.6	DETAILS & SPECIFICATIONS	S4.4	LSF FRAMING ELEVATIONS & DETAILS
		P-01	SUPPLY PLUMBING PLAN
A2.0	1st FLOOR PLAN & WALL TYPES	P-02	WASTE PLUMBING PLAN
A2.1	2nd FLOOR PLAN & DETAILS	P-03	COMPRESSED AIR PLAN
A2.2	REFLECTED CEILING PLANS & DETAILS	P-04	PLUMBING DIAGRAMS
A3.0	EXTERIOR ELEVATIONS	P-05	PLUMBING NOTES/ DETAILS
A3.1	ROOF PLAN & DETAILS		
A4.0	BUILDING SECTIONS	M-01	MECHANICAL PLAN
A4.1	WALL SECTIONS	M-02	GAS PLAN
A4.2	WALL SECTIONS	M-03	PLYMOVENT SYSTEM
A4.3	STAIR PLANS, SECTIONS & DETAILS	M-04	MECHANICAL NOTES & DETAILS
A5.0	CASEWORK ELEVATIONS	M-05	MECHANICAL NOTES & DETAILS
A5.1	CASEWORK SECTIONS & DETAILS		
A6.0	DOOR SCHEDULES, DOOR/ FRAME STYLES, WINDOW STYLES & DETAILS	E-01	ELECTRICAL LIGHTING PLAN
A6.1	FINISH SCHEDULE, ENLARGED TOILET PLANS & DETAILS	E-02	ELECTRICAL POWER PLAN
		E-03	ELECTRICAL LOW VOLTAGE PLAN
		E-04	ELECTRICAL NOTES & DETAILS
		FA-01	FIRE ALARM PLAN
		FA-02	FIRE ALARM NOTES & DETAILS
		FP-01	FIRE PROTECTION PLAN
		FP-02	FIRE PROTECTION NOTES & DETAILS



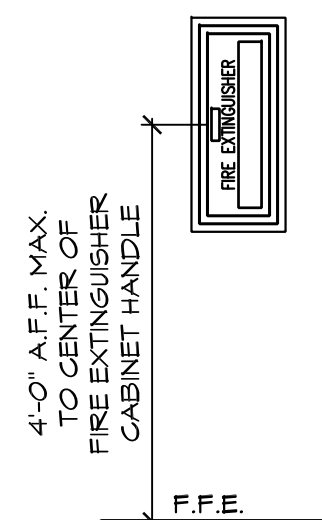
PINNACLE ARCHITECTURE
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P.O. BOX 187, 630 TEAM ROAD, SUITE 200
MATTHEWS, NORTH CAROLINA 28106
PH: (704) 847-9851 F: (704) 847-9853

D. R. REYNOLDS COMPANY, INC.
708 GRIFFIN FARM ROAD
STAR, NORTH CAROLINA 27356
(910) 428-1360



REVISION SCHEDULE

NO.	DATE	REFERENCE



- NOTES:
- PROVIDE MINIMUM (10) SEMI-RECESSED F.E. CABINETS, MANUF. - KIDDE OR APPROVED EQUAL.
 - PROVIDE MINIMUM (5) 10 LB. CLASS ABC FIRE EXTINGUISHERS TO BE MOUNTED AT THE DIRECTION OF THE LOCAL FIRE MARSHAL, MANUF. - KIDDE, TYCO, OR APPROVED EQUAL.
 - MOUNTING HEIGHTS FOR PORTABLE FIRE EXTINGUISHERS SHALL BE IN ACCORDANCE WITH NFPA 10. PORTABLE EXTINGUISHERS NOT EXCEEDING A GROSS WEIGHT OF 40 LBS. ARE TO BE INSTALLED SO THAT THE TOP DOES NOT EXCEED 5'-0" A.F.F. PORTABLE EXTINGUISHERS HAVING A GROSS WEIGHT EXCEEDING 40 LBS. ARE TO BE INSTALLED SO THAT THE TOP DOES NOT EXCEED 42" A.F.F.

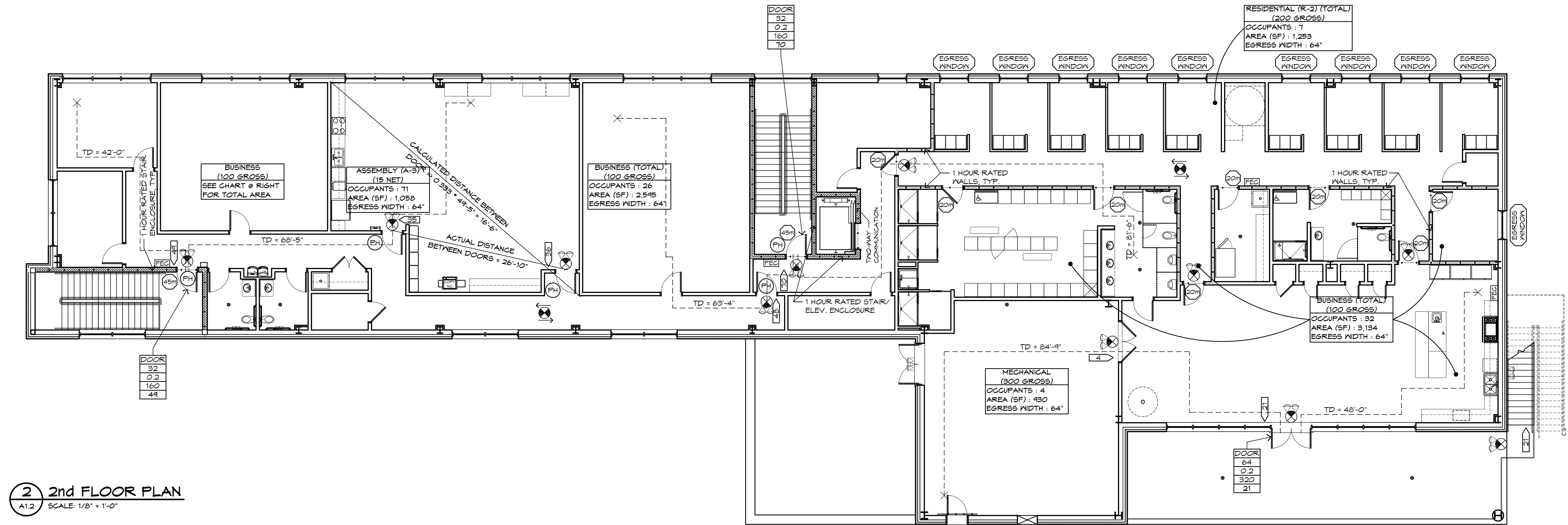
3 FIRE EXTINGUISHER
A1.2 NO SCALE

- GENERAL NOTES**
- DEVICE LOCATIONS APPROXIMATE
 - DOORS - MEANS OF EGRESS:
STANDARD 36" LEAF = 32" CLEAR = 160 OCCUPANTS CAPACITY
STANDARD 48" LEAF = 44" CLEAR = 230 OCCUPANTS CAPACITY
DOUBLE 36" LEAF = 64" CLEAR = 320 OCCUPANTS CAPACITY
DOUBLE 48" LEAF = 88" CLEAR = 440 OCCUPANTS CAPACITY

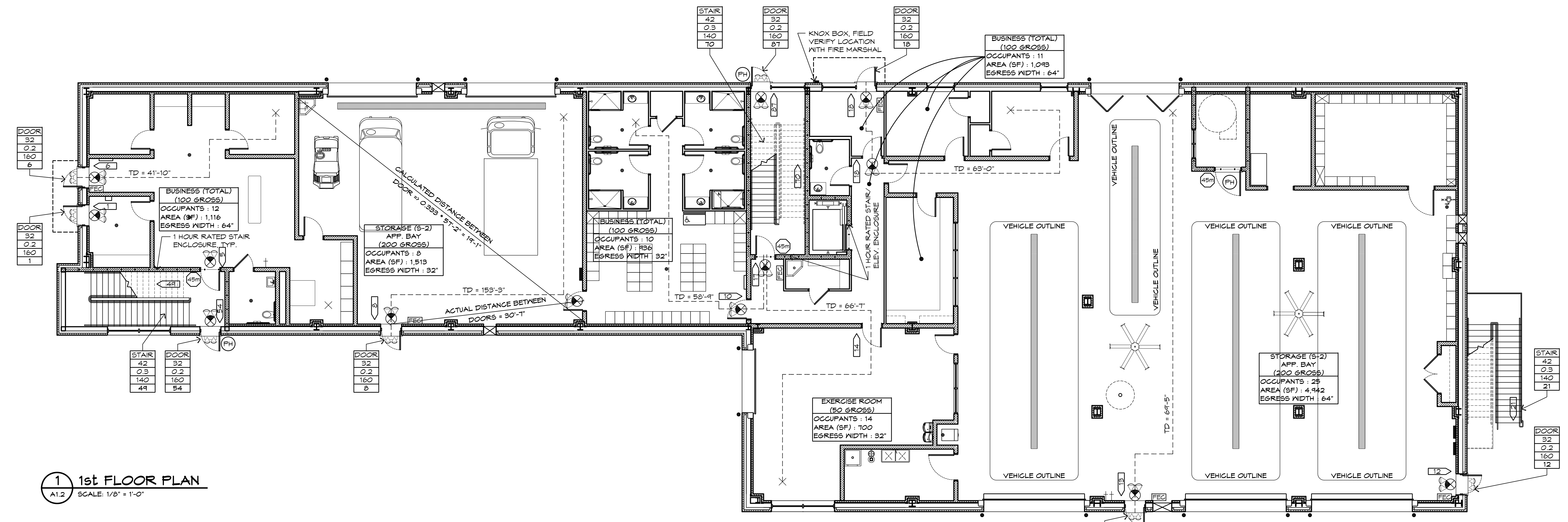
- EXIT ROUTES ARE SHOWN TO REFLECT SEPARATE AREAS OF EGRESS AND TO ESTABLISH THAT SUFFICIENT EGRESS WIDTH AND TRAVEL DISTANCES ARE PROVIDED ACCORDING TO CURRENT BUILDING CODES. IT IS THE RESPONSIBILITY OF THE OWNER TO CREATE A SPECIFIC EXITING PLAN FOR DAILY USE.
- REFER TO ELECTRICAL DRAWINGS FOR INFORMATION REGARDING:
- EMERGENCY LIGHTING
 - FIRE ALARM AND SMOKE DETECTION
 - EMERGENCY EXIT DISCHARGE LIGHTING
- REFER TO CIVIL DRAWINGS FOR INFORMATION REGARDING:
- EMERGENCY VEHICLE ACCESS ROUTES

LEGEND

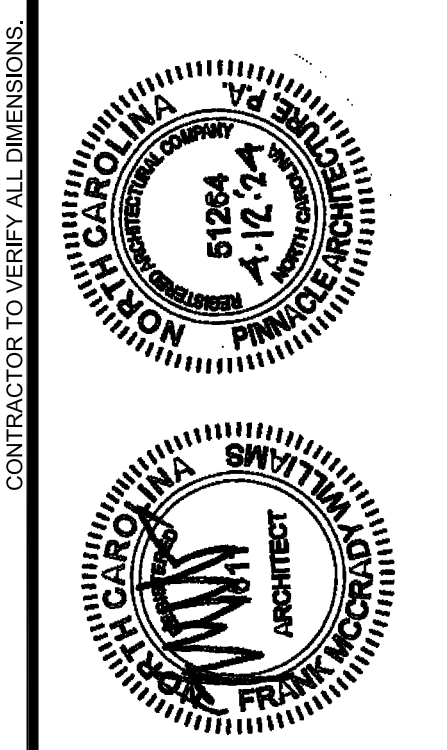
- EMERGENCY EGRESS LIGHTING
- EMERGENCY/EXIT LIGHT COMBO
- FIRE EXTINGUISHER CABINET
- 1 HOUR RATED WALL
- TRAVEL DISTANCE TO AN EXIT
- EXIT ELEMENT (DOOR, STAIR, HORIZONTAL EXIT)
- EGRESS WIDTH (CLEAR)
- EXIT WIDTH PER PERSON (N.)
- CAPACITY (PEOPLE)
- ACTUAL (PEOPLE)
- AREA OCCUPANCY LOAD (PEOPLE) SERVED BY MEANS OF EGRESS DOOR
- PANIC HARDWARE
- DOOR RATINGS (20m = 20 minutes)



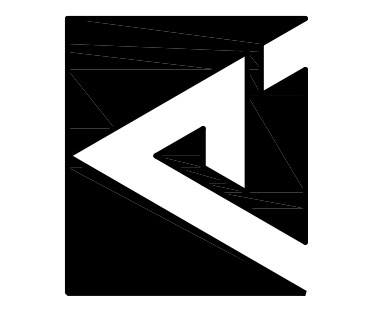
2 2nd FLOOR PLAN
A1.2 SCALE: 1/8" = 1'-0"



1 1st FLOOR PLAN
A1.2 SCALE: 1/8" = 1'-0"



PINNACLE ARCHITECTURE
PROFESSIONAL ASSOCIATION
700 EAST BAY STREET, SUITE 300
MATTHEWS, NORTH CAROLINA 28106
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ISSUE DATE: 04.12.24
DRAWN BY: JH/JR
CHECKED BY: JAV/RES
PROJECT: 2524

CONCORD FIRE STATION NO. 6
DAVID DISTRICT - NEW FACILITY
CONCORD, NC
LIFE SAFETY PLAN

REVISION SCHEDULE

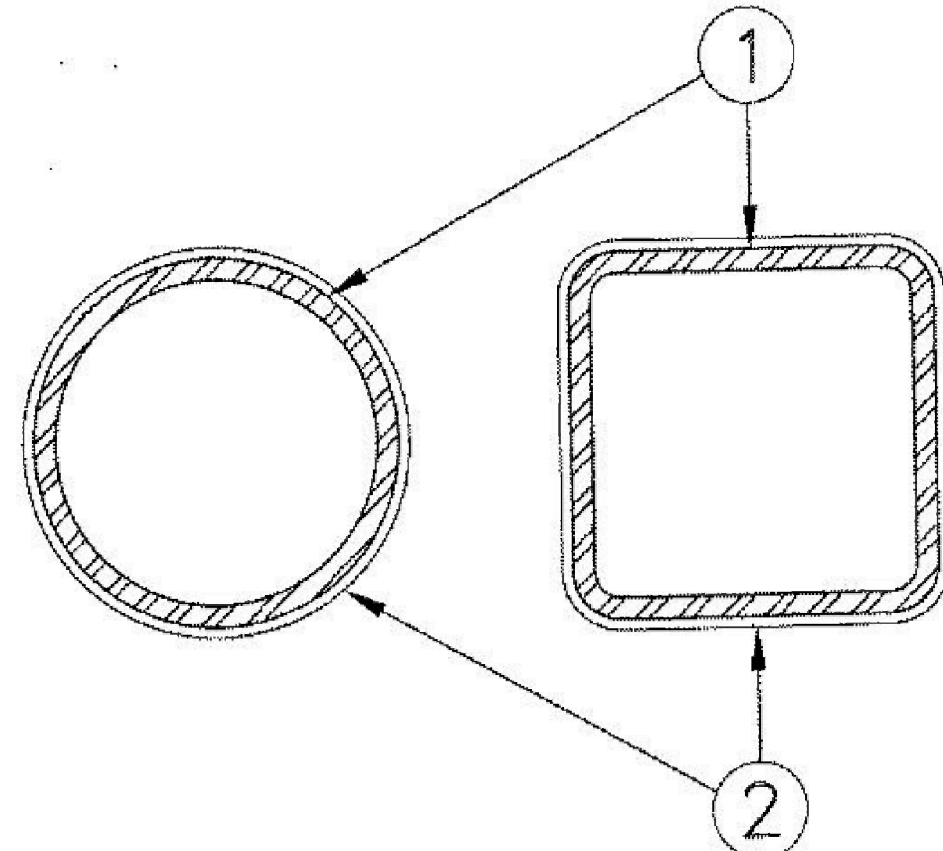
NO.	DATE	REFERENCE
A		

Design No. Y616

November 17, 2023

1. 1-1/2, 2 and 3 Hr. (See Item 2)

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



1. Steel Column — Steel tube (ST) or steel pipe (SP) with the minimum sizes shown in the table below. Columns shall be free of dirt, loose scale and oil. Columns shall be primed with a metal alkyd or epoxy primer at a nominal thickness of 1 mil.

2. Intumescent Fire-resistive Materials* — Coating spray or brush applied directly from containers to desired thickness. See table below for appropriate minimum final dry thickness and applicable rating.

FOR STEEL PIPE

Table with columns for Steel Size, A/P, HP/A, and thicknesses for 1 Hr, 1-1/2 Hr, 2 Hr, and 3 Hr ratings.

N/A = Not Available

FOR SQUARE AND RECTANGULAR STEEL TUBE

Table with columns for Steel Size, A/P, HP/A, and thicknesses for 1 Hr, 1-1/2 Hr, 2 Hr, and 3 Hr ratings.

N/A = Not Available

As an alternate to the above table, the required thickness of coating (in inches) to be applied to all surfaces of steel tube (ST) and steel pipe (SP) columns may be determined from the equations listed below.

Table with columns for Hourly Rating, Thickness Equation, Thickness Range, and A/P Ratio Range.

Where T = Thickness of coating in inches, A = Cross-sectional area of the pipe in square inches, and P = Heated perimeter of steel pipe or tube section in inches.

ISOLATEK INTERNATIONAL — Type SprayFilm WB 5, Type WB 5, Investigated for Interior Conditioned Space and Interior General Purpose, Investigated for Exterior Use with top coat as described in Item 3.

NEWKEM PRODUCTS CORP — Type WB 5, Investigated for Interior Conditioned Space and Interior General Purpose, Investigated for Exterior Use with top coat as described in Item 3.

3. Top Coat — (Not Shown) — Type TNEMC 740 required for Exterior Use with Type SprayFilm WB5, applied at a minimum dry thickness of 7 mils over the intumescent material. See Classification Information in the Mastec and Intumescent Coating (CDW2) category, Isolotek International, for mixing requirements.

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

Last Updated on 2023-11-17

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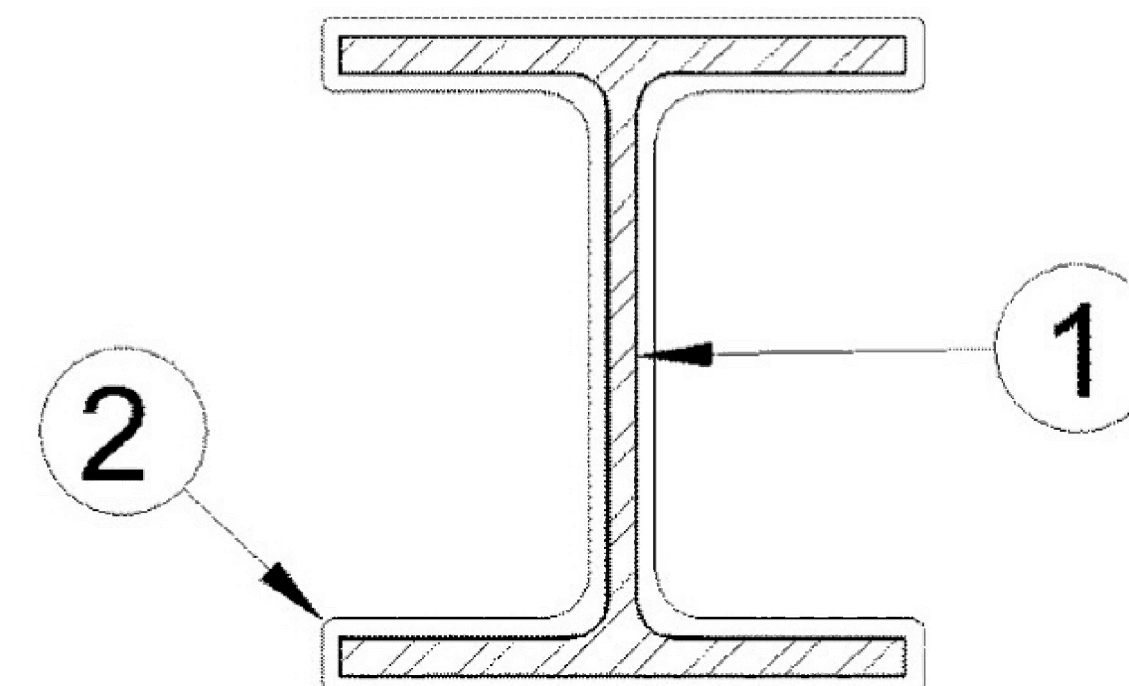
2 UL DETAIL Y616 NO SCALE

Design No. Y615

November 17, 2023

1, 1-1/2, 2, and 3 Hr. (See Item 2)

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



1. Steel Column — Wide flange steel columns with the minimum sizes shown in the tables below. Columns shall be free of dirt, loose scale and oil. Columns shall be primed with a metal alkyd or epoxy primer at a nominal thickness of 1 mil.

2. Intumescent Fire-resistive Materials* — Coating spray or brush applied directly from containers to desired thickness. See tables below for appropriate final dry thickness and applicable rating.

FOR WIDE FLANGE STEEL COLUMN

Table with columns for Steel Size, W/D, and thicknesses for 1 Hr Min, 1-1/2 Hr Min, 2 Hr Min, and 3 Hr Min ratings.

N/A = Not Available

As an alternate to the above table, the required thickness of coating (in millimeters) to be applied to all surfaces of wide flange steel columns may be determined from the equations listed below.

Table with columns for Hourly Rating, Thickness Equation, Thickness Range, and M/D Ratio Range.

Where T = Thickness of coating in millimeters, M = Weight of steel column in kilograms per linear meter, and D = Heated perimeter of steel column section in meters.

ISOLATEK INTERNATIONAL — Type SprayFilm WB 5 or Type WB 5, Investigated for Interior Conditioned Space and Interior General Purpose, Investigated for Exterior Use with top coat as described in Item 3.

NEWKEM PRODUCTS CORP — Type WB 5, Investigated for Interior Conditioned Space and Interior General Purpose, Investigated for Exterior Use with top coat as described in Item 3.

3. Top Coat — (Not Shown) — Type TNEMC 740 required for Exterior Use with Type SprayFilm WB5, applied at a minimum dry thickness of 7 mils over the intumescent material. See Classification Information in the Mastec and Intumescent Coating (CDW2) category, Isolotek International, for mixing requirements.

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

Last Updated on 2023-11-17

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N/A = Not Available

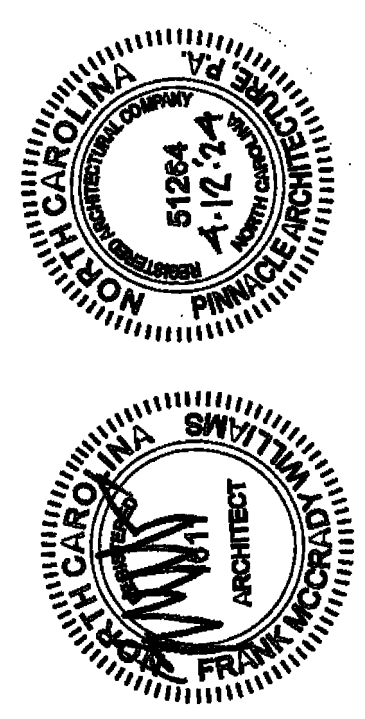
As an alternate to the above table, the required thickness of coating (in inches) to be applied to all surfaces of wide flange steel columns may be determined from the equations listed below.

Table with columns for Hourly Rating, Thickness Equation, Thickness Range, and W/D Ratio Range.

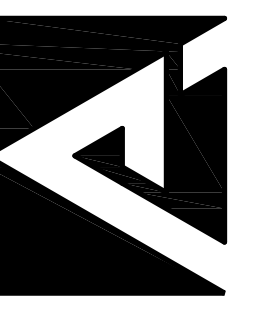
Where T = Thickness of coating in inches, W = Weight of steel column in pounds per linear foot, and D = Heated perimeter of steel column section in inches.

The following table lists the thicknesses in metric units.

Table with columns for Steel Size, M/D, and thicknesses for 1 Hr Min, 1-1/2 Hr Min, 2 Hr Min, and 3 Hr Min ratings.



PINNACLE ARCHITECTURE PROFESSIONAL ASSOCIATION



D.R. REYNOLDS COMPANY, INC. 1708 GREEN FARM ROAD STAR, NORTH CAROLINA 27386 (910) 428-1380

ISSUE DATE: 04.12.24 DRAWN BY: JH/JR CHECKED BY: PVA/PKB PROJECT: 2024

CONCORD FIRE STATION NO. 6 DAVID DISTRICT - NEW FACILITY CONCORD, NC UL DETAILS

REVISION SCHEDULE

Table with columns for DATE and REFERENCE.

A1.4

ACCESSIBILITY CODE REQUIREMENTS

WITH REFERENCES TO ANSI 117.1 AND ADAAG

TOILET ACCESSORIES, TOILETS, GRAB BARS, MOUNTING HEIGHTS AND HANDICAPPED DATA

DOORS AND DOORWAYS

MANEUVERING CLEARANCE AT MANUAL SWINGING DOORS
ICC/ANSI A117.1-2009
REF. FIG. 404.2.3.2 (8)
ADAAG-2010 - 404.2

INTERIOR/ EXTERIOR CERAMIC TILE FLOORS IN SETTING BEDS MAY USE A MARKED FLOOR IN PLACE OF A THRESHOLD. THE MAXIMUM SLOPE OF THESE MARKED FLOORS SHALL BE 5%.

DEPRESSED CERAMIC TILE FLOOR
CORRIDOR OR HALLWAY
THIN-SET CERAMIC TILE FLOORING
1/2" MAX.

REFERENCES:
ICC/ANSI 117.1-2009 - 404.2.4
ADAAG-2010 - 404.2.5

MAXIMUM EXTERIOR THRESHOLD HEIGHT FOR SLIDING GLASS DOORS IS 3/4" INCH.

REFERENCES:
ICC/ANSI 117.1-2009 - 303.3
ADAAG-2010 - 303.3

CHANGES IN LEVEL GREATER THAN 1/4" IN HT. AND NOT MORE THAN 1/2" MAX. IN HT. SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:2.

SIGNAGE AND IDENTIFICATION

ALTERNATE PLACEMENT
AREA OF REMOVE
45° MIN. TO 45° MAX.
18" MIN.

CENTERED ON TACTILE CHARACTERS
18" MIN.

SIGN PLACEMENT
ICC/ANSI A117.1-2009
REF. FIG. 103.9.11

LOCATION OF TACTILE SIGNS AT DOORS

NOTE: FOR BRAILLE MOUNTING HEIGHT REFER TO SECTION 103.4.9 (48" MIN. TO BASE LINE OF BRAILLE CELL) ICC/ANSI A117.1-2009. HEIGHT OF TACTILE CHARACTERS ABOVE FLOOR OR GROUND.

TOILET ROOM IDENTIFICATION SIGNS

NOTES (TYPICAL FOR ALL SIGNS):

- 6" MIN. BORDER DIMENSION- MALE/FEMALE FIGURES.
- USE OF MALE/FEMALE CARICATURES IS REQUIRED.
- RAISED LETTERS/NUMBERS.
- BRAILLE.
- CHARACTER PROPORTION.
- COLOR CONTRAST.

SIGNS ARE LIMITED ONLY TO EXAMPLES SHOWN.

FOR CHILDREN'S FACILITIES 'BOYS/BOYS TOILET' AND 'GIRLS/GIRLS TOILET' MAY BE USED IN PLACE OF THE ADULT NOMENCLATURE.

HAZARDOUS AREAS (SUCH AS EQUIPMENT ROOMS, JANITOR'S CLOSETS ETC.) SHALL HAVE IDENTIFICATION AS AN AID TO THOSE PERSONS WHO ARE BLIND OR VISUALLY HANDICAPPED.

SIGNAGE
ICC/ANSI A117.1-2009
REF. CHAPTER 7. COMMUNICATION ELEMENTS AND FEATURES
ADAAG-2010 - REF. CHAPTER 7

TOILET ACCESSORIES, TOILETS, GRAB BARS, MOUNTING HEIGHTS AND HANDICAPPED DATA

HANDICAPPED SHOWER
REFERENCES: ICC/ANSI 117.1-2009 - 603.4 & 610
ADAAG-2010 - 603.4 & 610

TYPICAL ACCESSORIES - MOUNTING HEIGHTS
REFERENCES: ICC/ANSI 117.1-2009 - 604.1
ADAAG-2010 - 604.1

TOILET ACCESSORIES, TOILETS, GRAB BARS

MOUNTING HEIGHTS AND HANDICAPPED DATA

TOILETS

FRONT ELEVATION FLOOR MOUNTED WATER CLOSET
12" MAX. 54" MIN. 42" MIN. 36" MIN. 24" MIN. 18" MIN. 39" - 41" 39" - 41" 17" - 19" 39" - 41" 17" - 19"

SIDE ELEVATION FLOOR MOUNTED WATER CLOSET

FRONT ELEVATION WALL MOUNTED WATER CLOSET
12" MIN. 36" MIN. 24" MIN. 18" MIN. 39" - 41" 39" - 41" 17" - 19" 39" - 41" 17" - 19"

SIDE ELEVATION WALL MOUNTED LAVATORIES AND SINKS
NOTE: EQUIPMENT PERMITTED IN SHADED AREA UNDER LAVATORY.

ACCESSIBLE URINALS WALL HUNG TYPE
ICC/ANSI 117.1-2009
REF. SECTION 605.2

ELEMENT	AGES			
	3 - 4	5 - 8	9 - 12	
(A) WATERCLOSET CENTERLINE	12"	12" - 15"	15" - 18"	
(B) TOILET SEAT HEIGHT	11" - 12"	12" - 15"	15" - 17"	
(C) GRAB BAR HEIGHT	18" - 20"	20" - 25"	25" - 27"	
(D) DISPENSER HEIGHT	14"	14" - 17"	17" - 19"	

DRINKING FOUNTAINS

SIDE ELEVATION WALL MOUNTED DRINKING FOUNTAINS
ICC/ANSI A117.1-2009
REF. 602.2

FRONT ELEVATION HI-LO WALL MOUNTED DRINKING FOUNTAINS
ICC/ANSI A117.1-2009
REF. SECTION 602.4

FOR A SIDE APPROACH TO THIS TYPE OF UNIT, THE CLEAR FLOOR AREA SHALL NOT BE LOCATED UNDER ANY PART OF THE FOUNTAIN/COOLER.

REFERENCES:
ICC/ANSI 117.1-2009 - REF. SECTION 602
ADAAG-2010 - REF. SECTION 602

DRINKING FOUNTAINS

CLEAR FLOOR AREA AT A PARTIALLY RECESSED, WALL MOUNTED UNIT

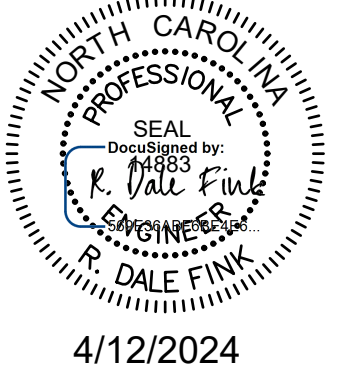
CLEAR FLOOR AREA AT A WALL MOUNTED UNIT

REFERENCES:
ICC/ANSI 117.1-2009 - REF. SECTION 602
ADAAG-2010 - REF. SECTION 602

DOOR HARDWARE

DOOR THRESHOLD HEIGHT LIMITATIONS
ICC/ANSI A117.1-2009
REF. 404.2.4

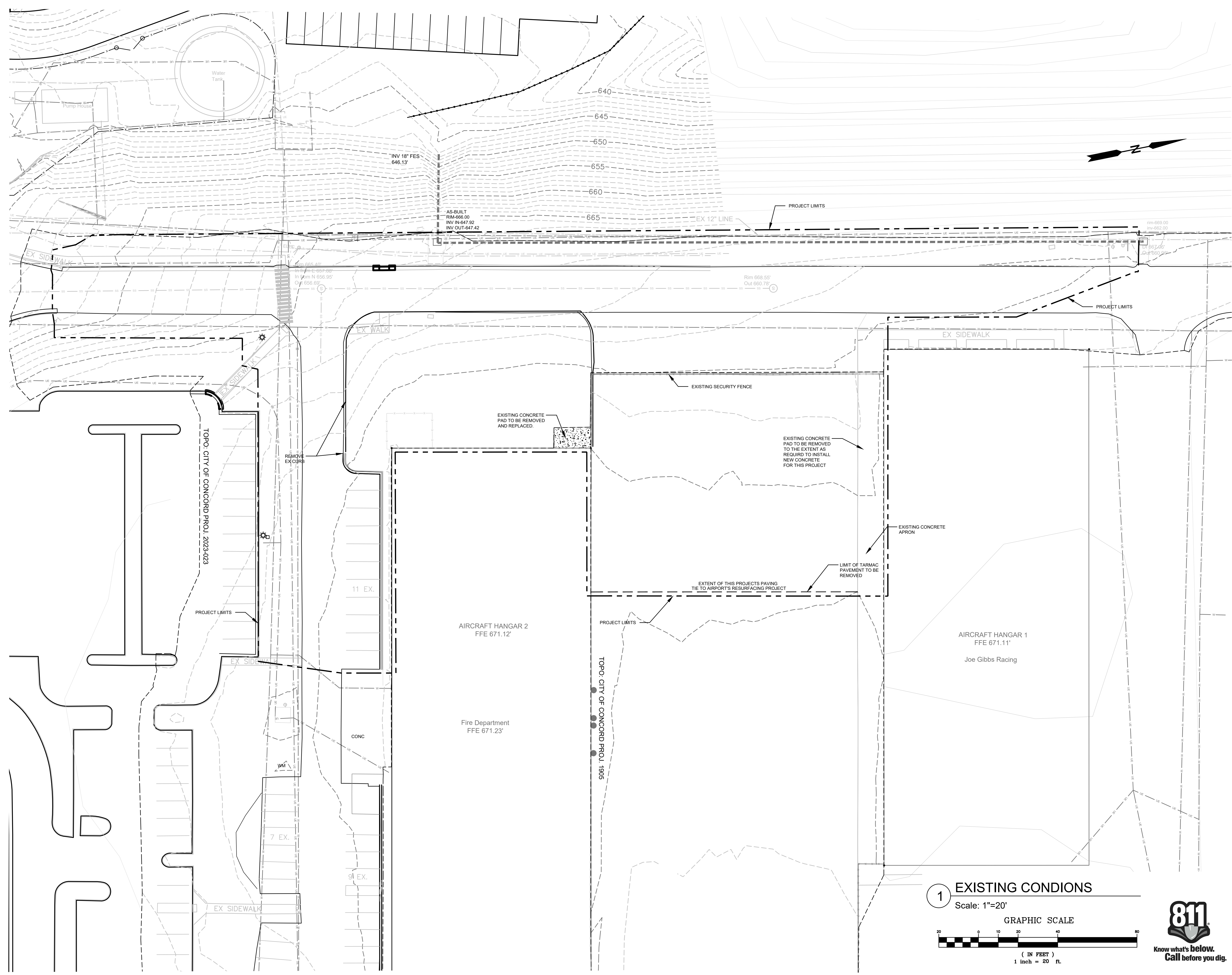
DOOR HARDWARE
ICC/ANSI A117.1-2009
REF. 404.2.6



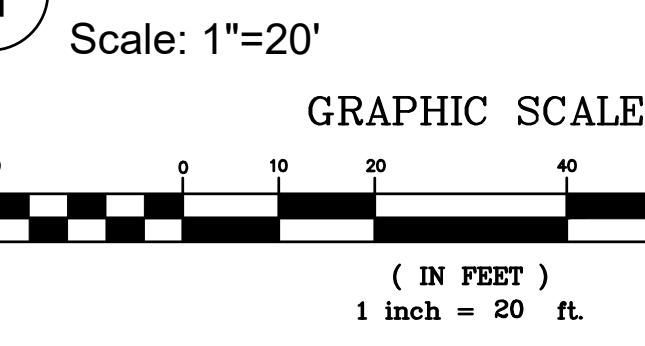
4/12/2024

GENERAL NOTES

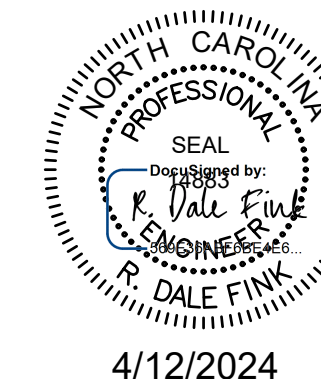
- A ALL WORK TO BE DONE IN ACCORDANCE WITH CITY OF CONCORD, WSAC, NCSDOT, NCDOT, NCEARN STANDARD SPECIFICATIONS AND PROJECT SPECIFICATIONS. WHEN SPECIFICATIONS ARE IN CONFLICT THE STRICTER SHALL BE HELD.
- B ALL BENCHMARK LOCATIONS AND ELEVATIONS ARE TO BE VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING CONSTRUCTION.
- C EXISTING UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS ONLY. ANY DAMAGE DONE TO EXISTING UTILITIES, WHETHER SHOWN OR NOT ON THIS PLAN, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES, SHOWN OR NOT SHOWN ON THE PLAN, PRIOR TO BEGINNING CONSTRUCTION. TO ENSURE PROPER LOCATION OF UTILITIES, THE CONTRACTOR SHALL CONTACT NCCOCC (NO ONE CALL CENTER) AT 1-800-632-4949 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.
- D THE CONTRACTOR SHALL PROVIDE THE APPROPRIATE BARRICADES, WARNING LIGHTS AND SIGNS TO ENSURE THE SAFETY OF THE PUBLIC AT ALL TIMES.
- E THIS PLAN DOES NOT PURPORT TO SHOW ALL EXISTING UTILITIES, LINES, APPURTENANCES, ETC., AND THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES, PIPES, VALVES, ETC., AS SHOWN ARE IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES, LINES, PIPES, ETC., BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT RESULT FROM THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES, PIPES AND VALVES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY CONFLICTS WITH EXISTING OR PROPOSED FACILITIES TO DETERMINE IF AN ITEM WILL NEED TO BE RELOCATED.
- F CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS PRIOR TO CONSTRUCTION. ANY SIGNIFICANT VARIATIONS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER.
- G DIMENSIONS AS SHOWN, ARE TO FACE OF CURB, FACE OF BUILDING, AND EDGE OF PAVEMENT UNLESS OTHERWISE NOTES.
- H THE EXISTING UTILITIES SHALL REMAIN IN SERVICE UNTIL NEW LINES ARE IN PLACE AND ACTIVATED. THE CONTRACTOR SHALL COORDINATE REMOVAL OF SERVICES WITH THE APPROPRIATE UTILITY COMPANY AND THE OWNER.
- I THE ENGINEER HAS MADE NO EXAMINATION OR TOXIC MATERIALS ARE PRESENT OR CONTAINED IN, UNDER, OR ON THE SUBJECT PROPERTY OR ITS WATERS; OR IF ANY HAZARDOUS OR TOXIC MATERIALS HAVE CONTAMINATED THIS OR OTHER PROPERTIES OR ITS WATERS IN ANY WAY WHATSOEVER. NO SUBSURFACE EXAMINATION OF ANY TYPE HAS BEEN MADE BY THE ENGINEER AND ACCORDINGLY, NO OPINION EXPRESSED OR INFERRED ON ALL SUCH MATTERS. FURTHER, NO OPINION IS RENDERED AS TO ANY VIOLATION OF ANY ENVIRONMENTAL LAWS OR REGULATIONS, EITHER FEDERAL, STATE OR LOCAL, RELATED TO THE INFORMATION SHOWN ON THIS PLAN AND THE ENGINEER IS IN NO WAY LIABLE FOR ANY VIOLATION OF SUCH ENVIRONMENTAL LAWS SHOULD THEY EXIST.
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- L BOUNDARY, PHYSICAL, AND TOPOGRAPHIC INFORMATION AS SHOWN TAKEN FROM SURVEY INFORMATION PROVIDED BY THE CITY OF CONCORD.



1 EXISTING CONDIONS



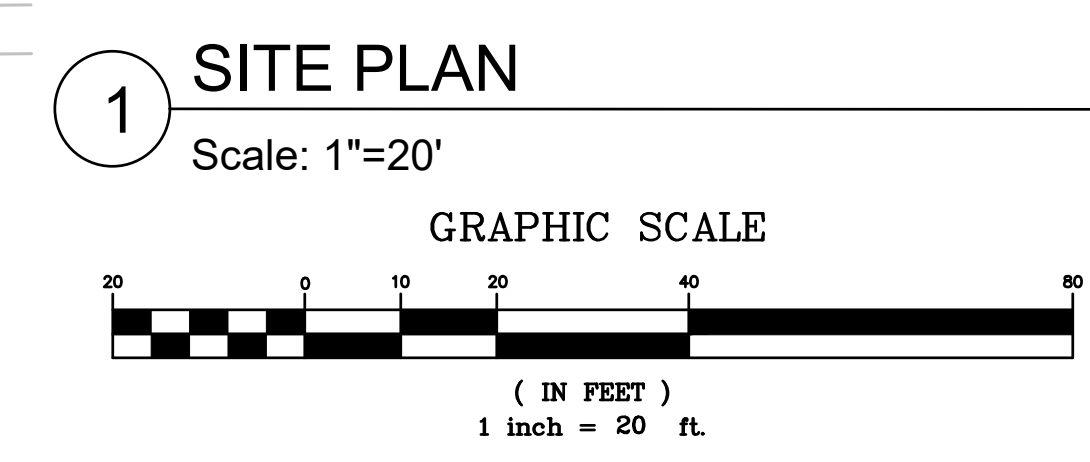
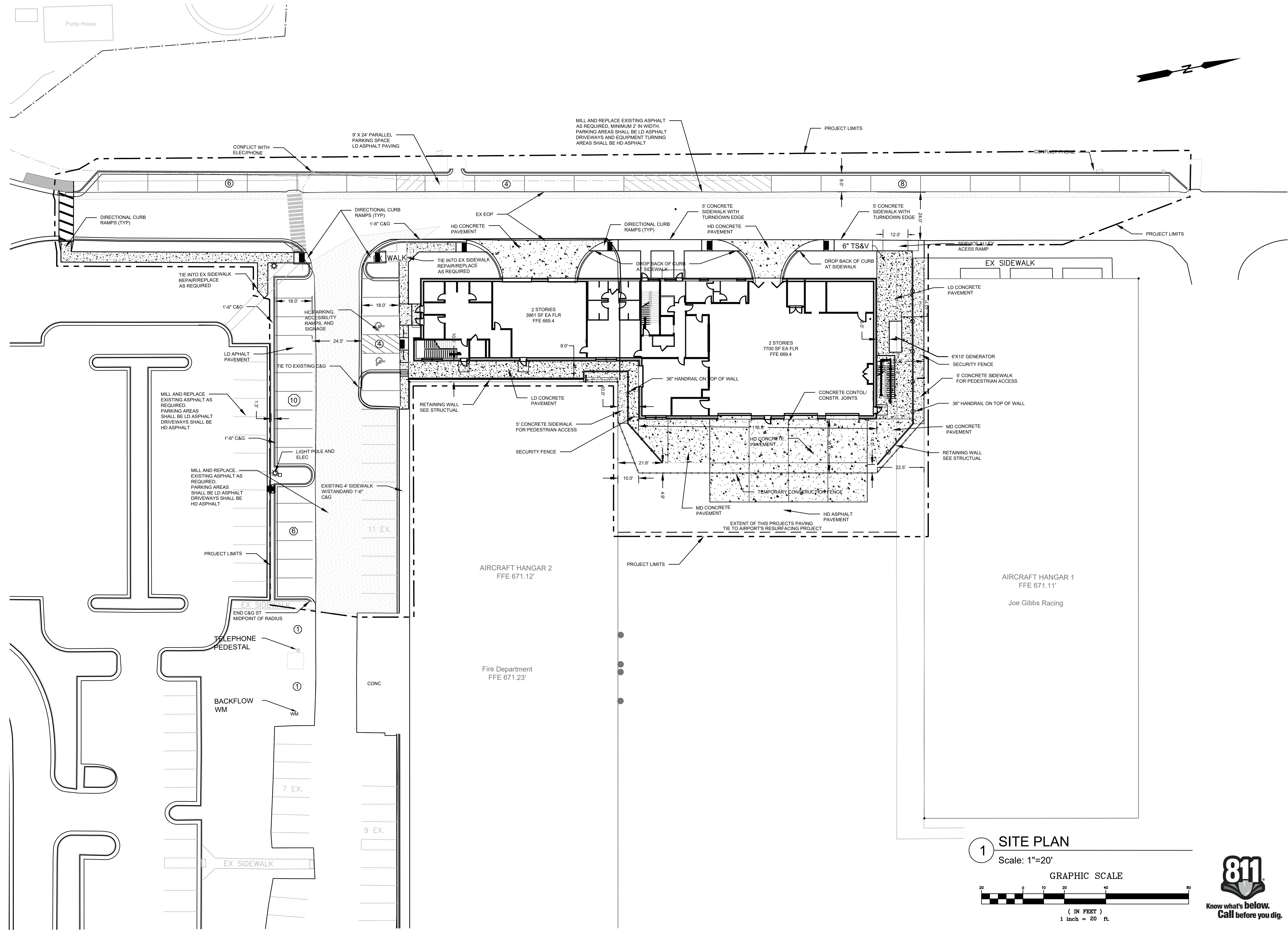
CONTRACTOR: DAVID R. ALL DIMENSIONS
 alley, williams, carmen & king, inc.
 CONSULTING ENGINEERS, SURVEYING & INSPECTION
 PINNACLE ARCHITECTURE PROFESSIONAL ASSOCIATION
 D. R. REYNOLDS COMPANY, INC.
 STAR, NORTH CAROLINA 27356
 9301 428-3380
 CONCORD FIRE STATION NO. 6
 DAVID DISTRICT - NEW FACILITY
 CONCORD, NC
 EXISTING CONDITIONS PLAN
 REVISION SCHEDULE
 SCALE: 1"=20'
 DATE: 12-12-23
 JOB # 23532
 C - 1.0



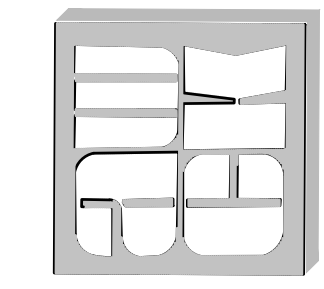
4/12/2024

GENERAL NOTES

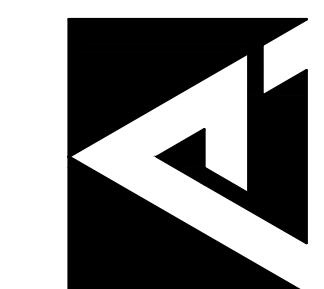
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- L. PARKING, SIGNAGE, AND MARKINGS PER NCDOT AND CITY OF CONCORD STANDARDS
- M.
- N.



alley, williams,
carmen & king, inc.
CONSULTING ENGINEERS,
SURVEYING & INSPECTION



PINNACLE ARCHITECTURE
PROFESSIONAL ASSOCIATION



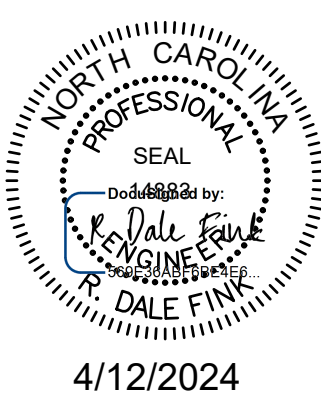
DRB
D. R. REYNOLDS COMPANY, INC.
708 GRIFFIN FARM ROAD
STAR, NORTH CAROLINA 27356
9301-628-2380

ISSUE DATE: 11.30.23
DRAWN BY: JH/JR
CHECKED BY: FHW/REB
PROJECT: 2324

CONCORD FIRE STATION NO. 6
DAVID DISTRICT - NEW FACILITY
CONCORD, NC
SITE PLAN

REVISION	DATE	REFERENCE
1	2/14/24	PROGRESS SET

SCALE: 1"=20'
DATE: 12-12-23
JOB # 23532



CONCORD LANDSCAPE NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE ANSI A300 STANDARD FOR TREE, SHRUB, AND OTHER WOODY PLANT MANAGEMENT-STANDARD PRACTICES.
2. ALL PLANT STOCK SHALL COMPLY WITH THE CURRENT EDITION OF ANSI Z60.1 AMERICAN STANDARD FOR TURFRESS STOCK.
3. ALL PLANTING AREAS SHALL MEET THE REQUIREMENTS OF THE CONCORD DEVELOPMENT ORDINANCE ARTICLE 11 AND TECHNICAL STANDARDS ARTICLE 7.
4. HEIGHT AND WIDTH OF PLANT MATERIAL SUPPLIED SHALL BE LOCATED BEFORE PLANTING.
5. UTILITIES SHALL BE LOCATED BEFORE PLANTING.
6. PLANTING LOCATIONS WILL BE ADJUSTED TO PROVIDE SUFFICIENT SPACE FOR UTILITIES, BASEMENTS, STREET LIGHTING, TRAFFIC SIGNS, AND SIGN TRIANGLES. CLEARANCE AROUND ALL SIDES OF FIRE HYDRANTS AND UTILITY APPURTENANCES ON PUBLIC STREETS. NO TREES SHALL BE PLANTED WITHIN 75' OF APPROACHING A STOP SIGN, NO PLANTS OR SIGNS OVER 2' TALL WITHIN SITE TRIANGLES.
7. ANY PROPOSED REMOVAL OF THE APPROVED PLANTING PLAN OR PLANT SPECIES SUBSTITUTIONS SHALL BE APPROVED BY THE CITY ARBORIST BEFORE INSTALLATION.
8. ALL TREES AND OTHER PLANTED LOCATION SHALL BE INSPECTED BY CITY STAFF BEFORE APPROVAL. ANY PLANT MATERIAL WHICH HAS DIED, TURNED BROWN, OR IS NOT BORN PARALLEL WITH UTILITY BASEMENTS OR STREET RIGHT OF WAYS, AND SHALL MEET THE REQUIREMENTS OF THE CITY OF CONCORD CODE OF ORDINANCE CHAPTER 02, SECTION 02-164.

GENERAL NOTES

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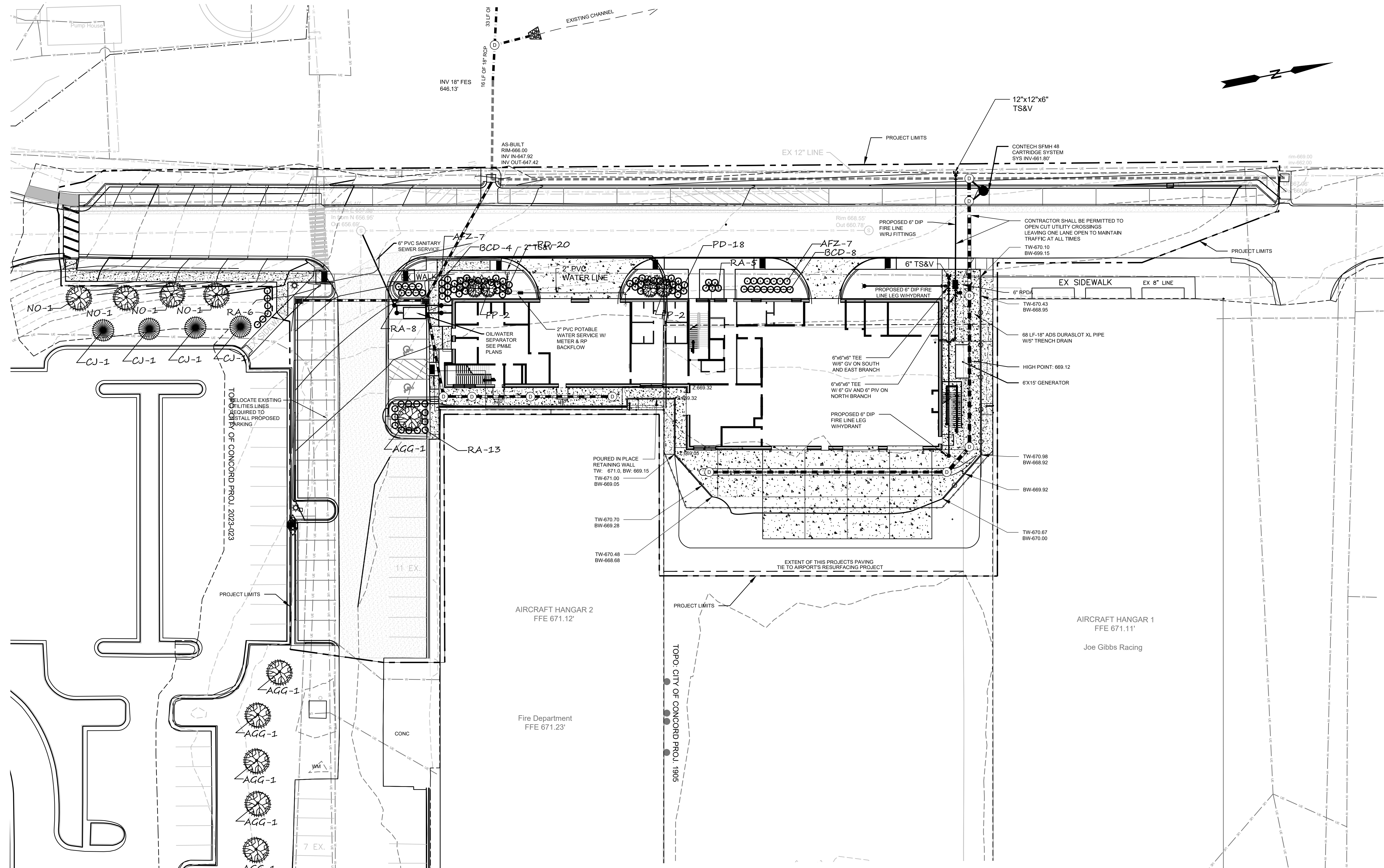
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LANDSCAPE CONTRACTOR SHALL HAVE UNDERGROUND UTILITY CONTRACTOR LOCATE LINES PRIOR TO INSTALLATION OF TREES AND SHRUBS.

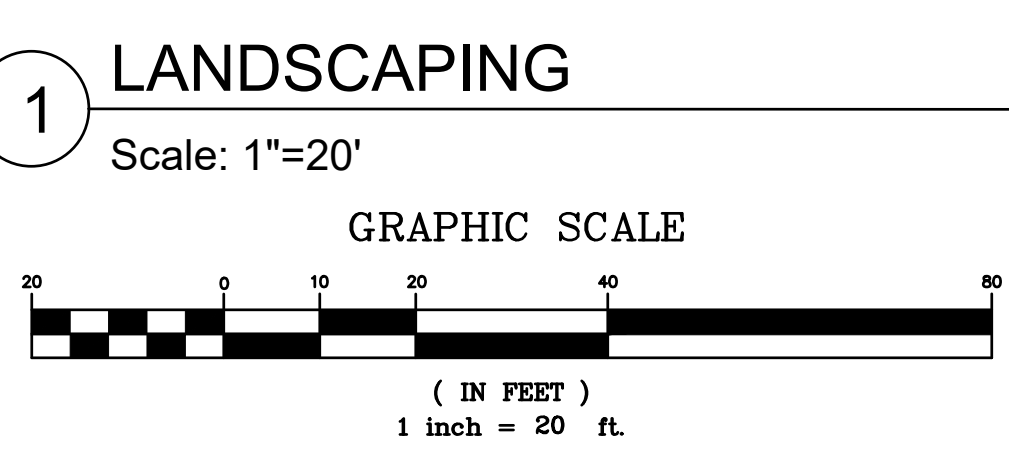
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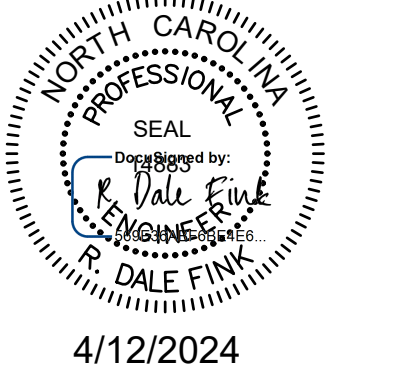
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Concord FS#6 Plant List				
Zoning L-1				
Key	Common Name	Botanical Name	Min. Size	Quantity
BUFFER YARD				
Not Applicable				
BUILDING YARDS				
FP	Forest Pansy Redbud	Cercis canadensis 'Forest Pansy'	7 gal. container min.	4
BCD	Black Cuckoo Bell Evergreen Daylily	Daylily 'MIDEST' PP25439	3 gal. container	12
PD	Purple Daylily Dwarf Leopardium	Leopodium chinense 'PILC.H' PP25471	3 gal. container	36
AFZ	Autumn Fire Azalea	Rhododendron 'Roblox' PP29279	3 gal. container	14
RA	Radiance Abelia	Abelia x grandiflora 'Radiance'	3 gal. container	5
PARKING LOT YARD & STREET YARD				
RA	Radiance Abelia	Abelia x grandiflora 'Radiance'	3 gal. container	19
CJ	Benjamin Franklin Japanese-cedar	Cryptomeria japonica 'Benjamin Franklin'	2'-0" x 2'-5" cal. / 8-10' ht. / 4'-0" spread	4
NO	Nuttall Oak	Quercus nuttallii	2'-5" x 3'-0" cal. / 10-12' ht. / 5'-0" spread	4
AGS	Autumn Gold Onigro	Onigro bicolor 'Autumn Gold'	2'-0" x 2'-5" cal. / 8-10' ht. / 4'-0" spread	7

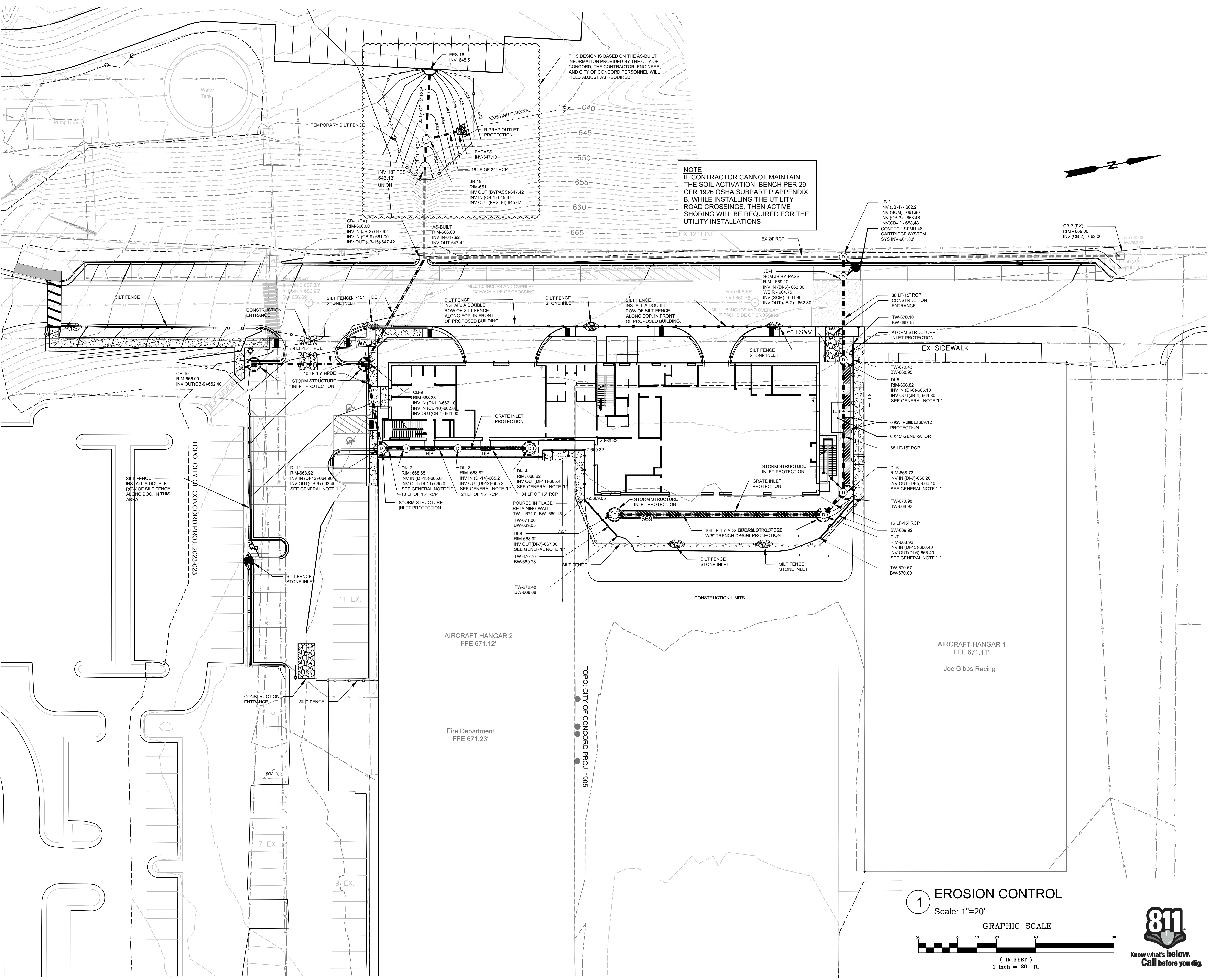


CONTRACTOR: DAVID KING ARCHITECTURE
 PINNACLE ARCHITECTURE PROFESSIONAL ASSOCIATION
 D. R. REYNOLDS COMPANY, INC.
 708 GRIFFIN FARM ROAD
 STAR, NORTH CAROLINA 27356
 9301 428-3360
 CONCORD FIRE STATION NO. 6
 DAVID DISTRICT - NEW FACILITY
 CONCORD, NC
 REVISION SCHEDULE
 DATE: 12-12-23
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 SCALE: 1"=20'
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 JOB # 23532
 C - 2.1



PLAN NOTES

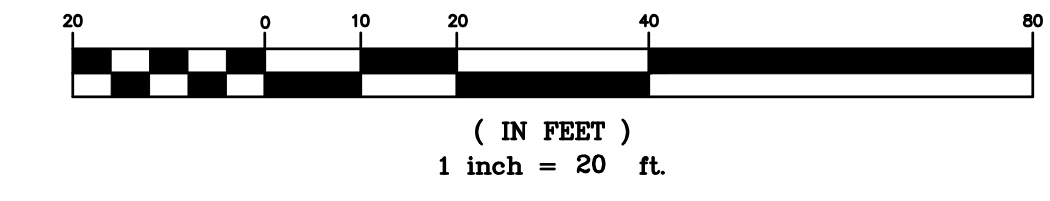
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- L. REPLACE STANDARD JUNCTION BOX RING AND COVER WITH NEENAH FOUNDRY R-4370-23 GRATE TYPE G. DURING CONSTRUCTION SET GRATE AND FRAME ONE BLOCK COURSE LOW SO IT CAN BE USED AS DRAINAGE DURING CONSTRUCTION. PRIOR TO FINAL LIFT OF PAVEMENT BEING INSTALLED, ADJUST RING AND COVER TO PROPOSED FINISH GRADE.



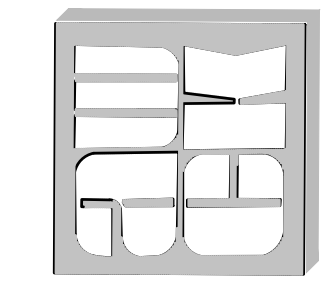
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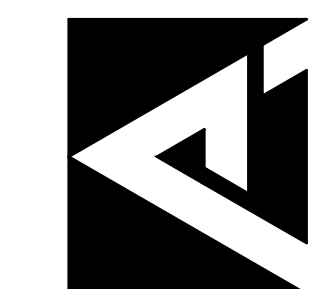
GRAPHIC SCALE



alley, williams,
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CONSULTING ENGINEERS
SURVEYING & INSPECTION



PINNACLE ARCHITECTURE
PROFESSIONAL ASSOCIATION
P.O. BOX 103, 407 TEAM ROAD, SUITE 200
MATTHEWS, NORTH CAROLINA 28106
PHE (704) 847-8811 FAX (704) 847-8833



D. R. REYNOLDS COMPANY, INC.
708 GREEN FARM ROAD
STAR, NORTH CAROLINA 27356
9301 228-2380

CONCORD FIRE STATION NO. 6
DAVID DISTRICT - NEW FACILITY
CONCORD, NC
GRADING PLAN

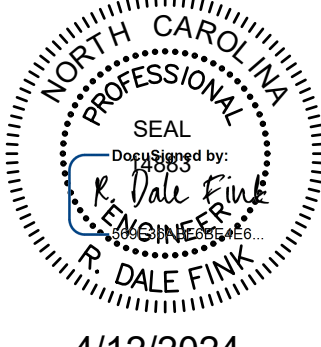
REVISION SCHEDULE		
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JOB # 23532

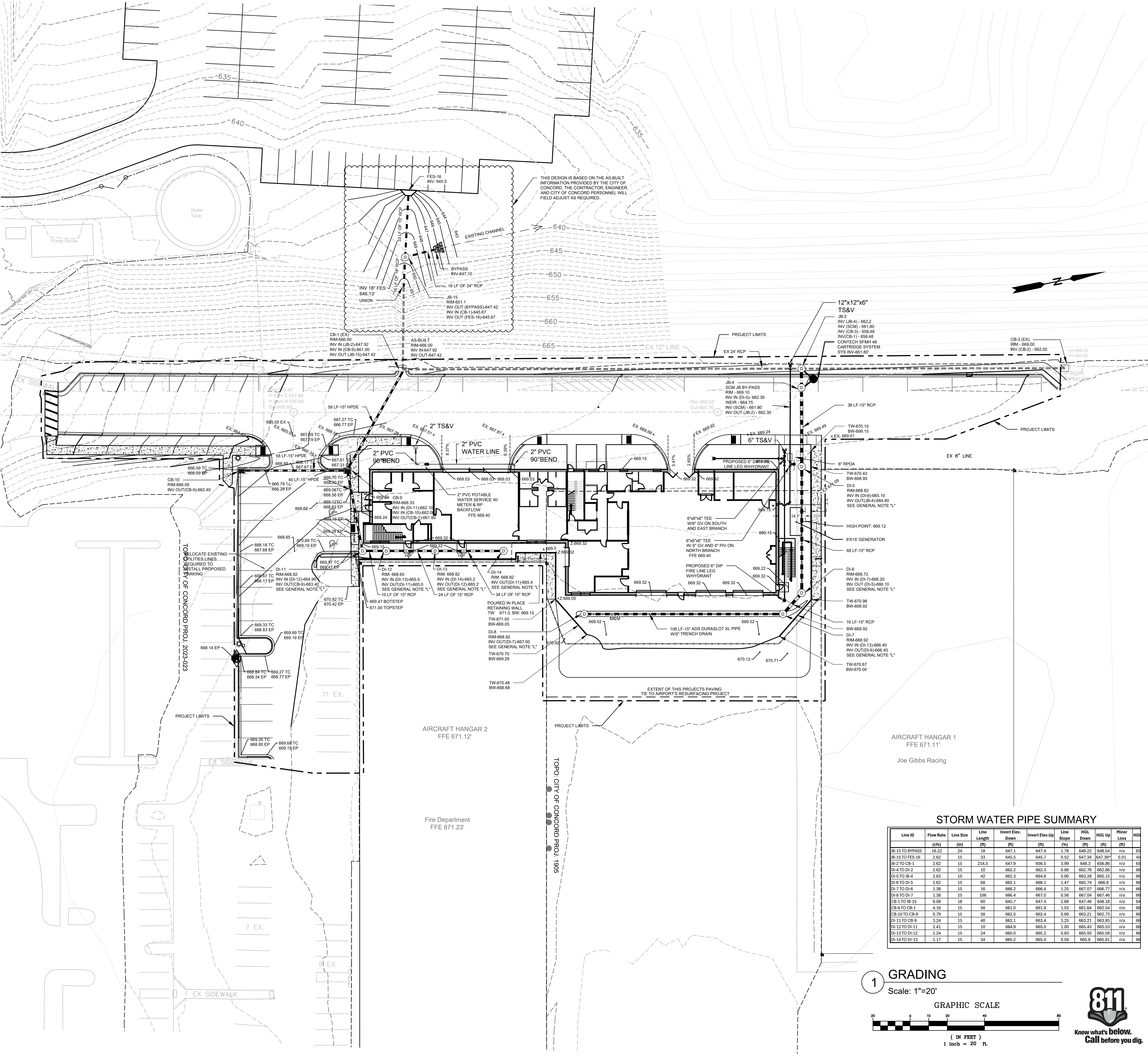
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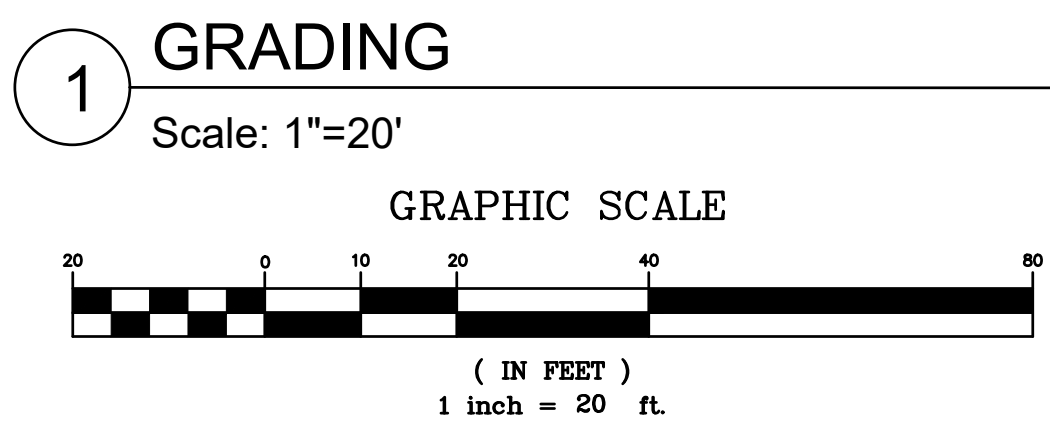
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- K. AT ALL TIMES, THE CONTRACTOR SHALL PERFORM PROJECT DEMOLITION WITH MINIMAL DISTURBANCE TO THE ADJACENT PROPERTIES. ALL DEBRIS GENERATED DURING THE DEMOLITION PHASE OF THE PROJECT, SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.
- L. REPLACE STANDARD JUNCTION BOX RING AND COVER WITH "NEENAH FOUNDRY R-4370-23 GRATE TYPE G, DURING CONSTRUCTION SET GRATE AND FRAME ONE BLOCK COURSE LOW SO IT CAN BE USED AS DRAINAGE DURING CONSTRUCTION. PRIOR TO FINAL LIFT OF PAVEMENT BEING INSTALLED, ADJUST RING AND COVE TO PROPOSED FINISH GRADE.



STORM WATER PIPE SUMMARY

Line ID	Flow Rate (cfs)	Line Size (in)	Line Length (ft)	Invert Elev. Down (ft)	Invert Elev. Up (ft)	Line Slope (%)	HGL Down (ft)	HGL Up (ft)	Minor Loss (ft)	HGL (ft)
JB-15 TO BYPASS	13.22	24	15	647.1	647.4	1.78	648.22	648.54	n/a	03
JB-15 TO FES-16	2.62	15	33	645.5	645.7	0.52	647.34	647.39	0.01	04
JB-2 TO CB-1	2.62	15	214.5	647.9	656.5	3.99	648.3	656.86	n/a	05
DI-4 TO DI-2	2.62	15	10	662.2	662.3	0.98	662.76	662.86	n/a	06
DI-5 TO DI-4	2.62	15	42	662.3	664.8	3.90	663.28	665.15	n/a	06
DI-6 TO DI-5	2.62	15	68	665.1	666.1	1.47	665.74	666.6	n/a	06
DI-7 TO DI-6	1.38	15	16	666.2	666.4	1.25	667.07	666.77	n/a	06
DI-8 TO DI-7	1.38	15	106	666.4	667.0	0.56	667.04	667.46	n/a	06
CB-10 TO DI-15	9.08	18	60	645.7	647.4	2.88	647.46	648.19	n/a	04
CB-9 TO CB-1	4.16	15	58	661.0	661.9	1.55	661.64	662.54	n/a	06
CB-10 TO CB-9	0.79	15	58	662.0	662.4	0.69	663.21	662.73	n/a	06
DI-11 TO CB-9	3.24	15	40	662.1	663.4	3.25	663.21	663.85	n/a	06
DI-12 TO DI-11	2.41	15	10	665.9	666.0	1.00	665.43	665.53	n/a	06
DI-13 TO DI-12	1.24	15	24	665.0	665.2	0.83	665.93	665.59	n/a	06
DI-14 TO DI-13	1.17	15	34	665.2	665.4	0.59	665.8	665.81	n/a	06

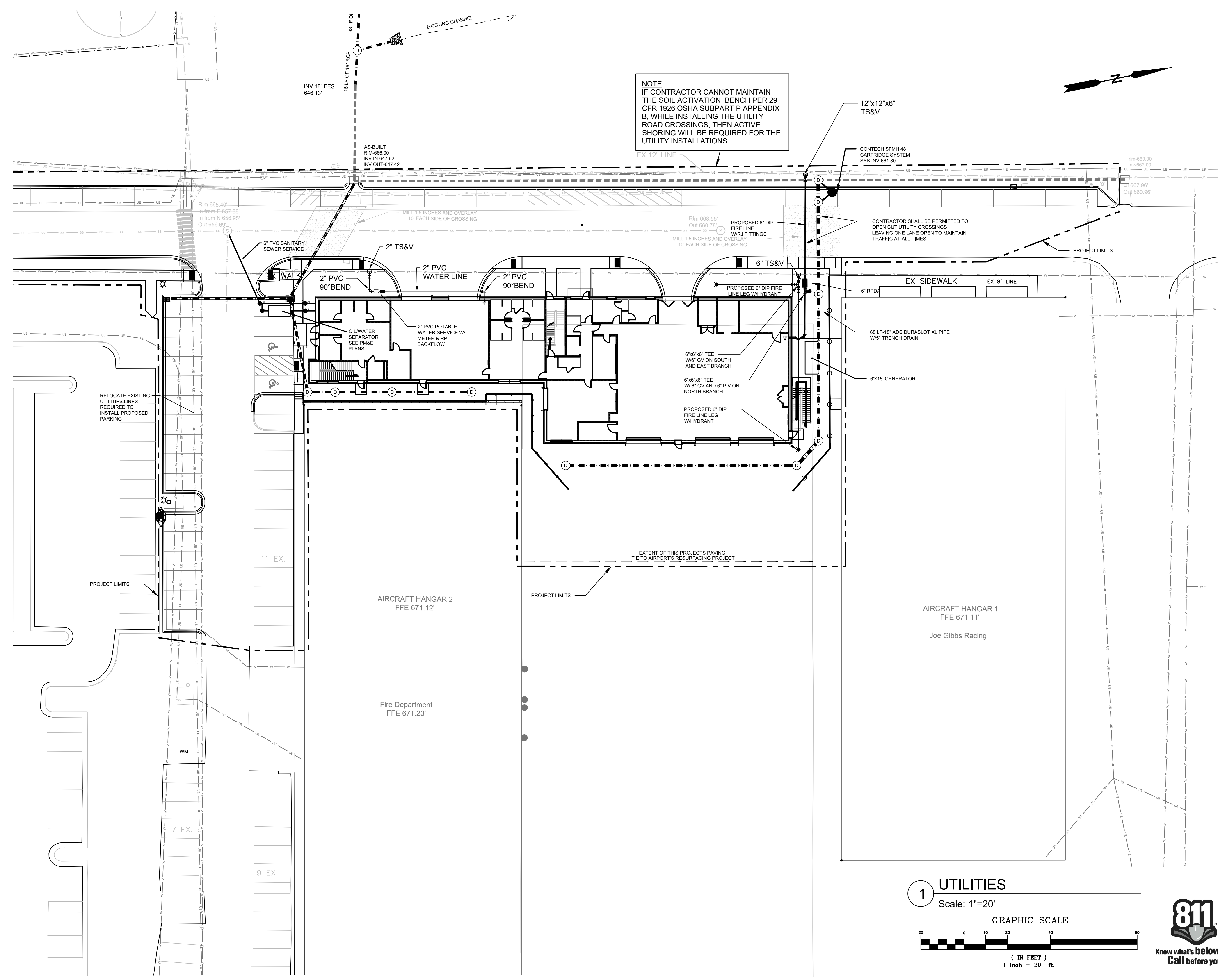


PINNACLE ARCHITECTURE PROFESSIONAL ASSOCIATION
 D. R. REYNOLDS COMPANY, INC.
 708 GREEN FARM ROAD
 STAR, NORTH CAROLINA 27586
 9501 428-4360

CONCORD FIRE STATION NO. 6
 DAVID DISTRICT - NEW FACILITY
 CONCORD, NC
 GRADING PLAN

REVISION SCHEDULE
 #1 DATE: 2/14/24 REFERENCE: PROGRESS SET

SCALE: 1"=20'
 DATE: 12-12-23
 JOB # 23532
 C - 4.0



NOTE
IF CONTRACTOR CANNOT MAINTAIN THE SOIL ACTIVATION BENCH PER 29 CFR 1926 OSHA SUBPART P APPENDIX B, WHILE INSTALLING THE UTILITY ROAD CROSSINGS, THEN ACTIVE SHORING WILL BE REQUIRED FOR THE UTILITY INSTALLATIONS

UTILITY NOTES

A. PER CITY OF CONCORD CODE OF ORDINANCE CHAPTER 62, ARTICLE 3, SECTION 62-98 (2) ALL MATERIALS, EQUIPMENT, LABOR, AND WORKMANSHIP ASSOCIATED WITH PUBLIC WATER AND/OR SEWER EXTENSION AND/OR MODIFICATION SHALL BE IN ACCORDANCE WITH AND SUBJECT TO THE WATER AND SEWER SPECIFICATIONS AND THE NORTH CAROLINA ADMINISTRATIVE CODE FOR WASTE WATER COLLECTION AND WATER DISTRIBUTION SYSTEMS. IN THE EVENT OF A CONFLICT BETWEEN THE WATER AND SEWER AUTHORITY OF CABARRUS COUNTY'S STANDARD SPECIFICATIONS, THE CITY OF CONCORD'S ORDINANCES, POLICIES, AND STANDARD SPECIFICATIONS, OR THE NORTH CAROLINA ADMINISTRATIVE CODE, THE MORE RESTRICTIVE SHALL APPLY.

B. REVIEW AND APPROVAL OF THE PLANS DOES NOT RELIEVE THE OWNER, CONTRACTOR, OR DEVELOPER FROM MEETING THE REQUIREMENTS OF THE CITY OF CONCORD'S OR CABARRUS COUNTY'S ORDINANCES, POLICIES, AND STANDARD SPECIFICATIONS, (AS APPLICABLE), CONCORD WATER & SEWER POLICIES AND TECHNICAL SPECIFICATIONS, THE STANDARD SPECIFICATIONS FOR WASTEWATER COLLECTION & WATER DISTRIBUTION FOR CABARRUS COUNTY (WSACC MANUAL) AND ANY OTHER LOCAL, STATE, AND FEDERAL REGULATIONS AND APPROVALS.

C. THE CONTRACTOR MUST CONTACT THE CITY OF CONCORD ENGINEERING CONSTRUCTION MANAGER AT 704-923-3425 AT LEAST 24 HOURS PRIOR TO INITIATING ANY CONSTRUCTION ACTIVITY.

D. CONCORD CODE OF ORDINANCES CHAPTER 62, ARTICLE II WATER AND SEWER SERVICE, SEC. 62-344 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING THE NECESSARY AND APPROVED DEVICE(S) TO MAKE ANY ADJUSTMENTS TO THE WATER PRESSURE SUPPLIED BY CONCORD UTILITIES AND SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL SUCH DEVICES.

E. PER THE CITY OF CONCORD CODE OF ORDINANCE CHAPTER 62, ARTICLE 3, SECTION 62-98 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE MINIMUM SEPARATIONS MUST BE INDICATED, UNLESS OTHERWISE APPROVED BY THE CITY.

F. A MINIMUM HORIZONTAL SEPARATION OF 5 FT SHALL BE MAINTAINED BETWEEN ANY TYPE OF MAINTENANCE OBSTRUCTION AND THE CITY'S WATER DISTRIBUTION LINES, WASTEWATER COLLECTION LINES, AND ASSOCIATED APPURTENANCES, UNLESS AN EXCEPTION IS GRANTED. GREATER SEPARATION DISTANCES MAY BE REQUIRED AS SPECIFIED BY FEDERAL, STATE, OR LOCAL REGULATIONS.

G. A MINIMUM VERTICAL SEPARATION OF 2 FT SHALL BE MAINTAINED BETWEEN ANY TYPE OF MAINTENANCE OBSTRUCTION, INCLUDING BUT NOT LIMITED TO ANY OTHER UTILITY PROVIDER'S LINES OR EQUIPMENT, AND IF AN EXCEPTION IS GRANTED, A MINIMUM OF 1 FT MUST BE MAINTAINED AND THE CITY WATER DISTRIBUTION LINES, WASTEWATER COLLECTION LINES, AND ASSOCIATED APPURTENANCES SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE OR AN APPROVED FERROUS MATERIAL WITH JOINTS THAT ARE EQUIVALENT TO POTABLE WATER MAIN STANDARDS FOR A DISTANCE OF 10 FT ON EITHER SIDE OF THE POINT OF CROSSING. GREATER SEPARATION DISTANCES MAY BE REQUIRED AS SPECIFIED BY FEDERAL, STATE, OR LOCAL REGULATIONS.

H. THE CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY KIND OF LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF ANY WORK ON THIS PROJECT, EXCEPT FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.

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J. AT ALL TIMES, THE CONTRACTOR SHALL PERFORM PROJECT DEMOLITION WITH MINIMAL DISTURBANCE TO THE ADJACENT PROPERTIES. ALL DEBRIS GENERATED DURING THE DEMOLITION PHASE OF THE PROJECT, SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.

K. BEDDING FOR PVC SEWER MAINS AND LATERALS SHOULD BE WSACC CLASS B BEDDING.

L. UNLESS OTHERWISE NOTED, WATERLINES SHALL BE PVC 200 FOR 6"-12" DIAMETER AND PVC SDR 13.5 FOR 2"-4" DIAMETER PER WSACC STANDARDS.

M. UNLESS OTHERWISE NOTED, SEWER MAINS SHALL BE PVC SDR 35 PER WSACC STANDARDS.

GENERAL NOTES

A. ALL WORK TO BE DONE IN ACCORDANCE WITH CITY OF CONCORD, WSACC, NCDOT, NCEM&C STANDARD SPECIFICATIONS AND PROJECT SPECIFICATIONS. WHEN SPECIFICATIONS ARE IN CONFLICT THE STRICTER SHALL BE HELD.

B. ALL BENCHMARK LOCATIONS AND ELEVATIONS ARE TO BE VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING CONSTRUCTION.

C. EXISTING UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS ONLY. ANY DAMAGE DONE TO EXISTING UTILITIES, WHETHER SHOWN OR NOT ON THIS PLAN, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES SHOWN OR NOT SHOWN ON THE PLAN, PRIOR TO BEGINNING CONSTRUCTION, TO ENSURE PROPER LOCATION OF UTILITIES. THE CONTRACTOR SHALL CONTACT NCCOCC (NC ONE CALL CENTER) AT 1-800-632-4949 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.

D. THE CONTRACTOR SHALL PROVIDE THE APPROPRIATE BARRICADES, WARNING LIGHTS AND SIGNS TO ENSURE THE SAFETY OF THE PUBLIC AT ALL TIMES.

E. CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS PRIOR TO CONSTRUCTION. ANY SIGNIFICANT VARIATIONS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER.

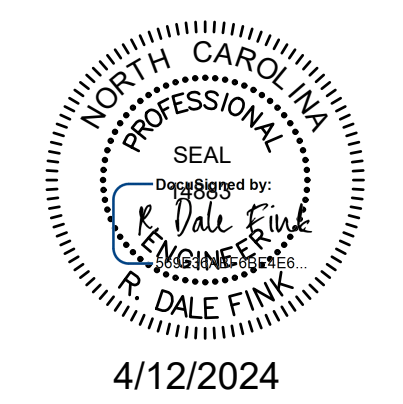
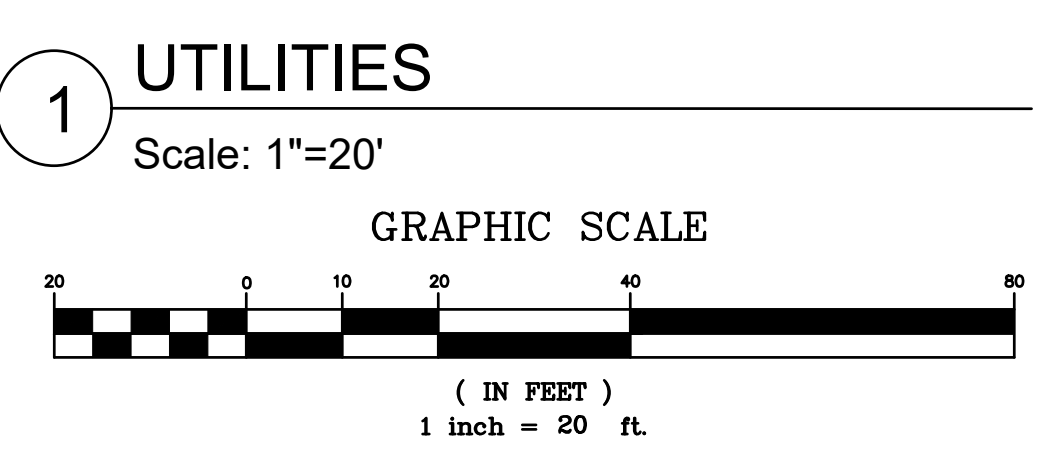
F. DIMENSIONS AS SHOWN, ARE TO FACE OF CURB, FACE OF BUILDING, AND EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.

G. THE EXISTING UTILITIES SHALL REMAIN IN SERVICE UNTIL NEW LINES ARE IN PLACE AND ACTIVATED. THE CONTRACTOR SHALL COORDINATE REMOVAL OF SERVICES WITH THE APPROPRIATE UTILITY COMPANY AND THE OWNER.

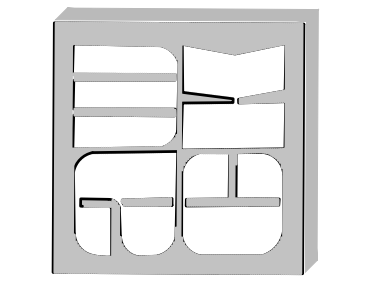
H. THE ENGINEER HAS MADE NO EXAMINATION TO DETERMINE WHETHER ANY HAZARDOUS OR TOXIC MATERIALS ARE PRESENT OR CONTAINED IN, UNDER, OR ON THE SUBJECT PROPERTY OR ITS WATERS; OR IF ANY HAZARDOUS OR TOXIC MATERIALS HAVE CONTAMINATED THIS OR OTHER PROPERTIES OR ITS WATERS IN ANY WAY WHATSOEVER. NO SUBSURFACE EXAMINATION OF ANY TYPE HAS BEEN MADE BY THE ENGINEER AND ACCORDINGLY, NO OPINION EXPRESSED OR INFERRED ON ALL SUCH MATTERS. FURTHER, NO OPINION IS RENDERED AS TO ANY VIOLATION OF ANY ENVIRONMENTAL LAWS OR REGULATIONS, EITHER FEDERAL, STATE OR LOCAL, RELATED TO THE INFORMATION SHOWN ON THIS PLAN AND THE ENGINEER IS IN NO WAY LIABLE FOR ANY VIOLATION OF SUCH ENVIRONMENTAL LAWS SHOULD THEY EXIST.

ENCROACHMENT NOTES

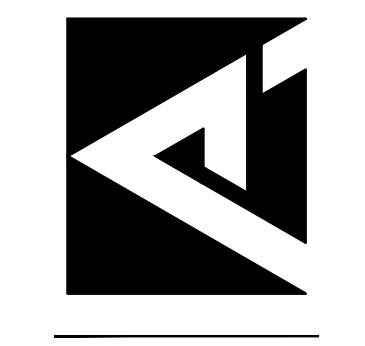
- CONTRACTOR SHALL CONTACT CITY OF INSPECTOR AND THE AIRPORT AUTHORITY AT LEAST 72 HOURS IN ADVANCE TO SET UP AN ON-SITE PRE-CONSTRUCTION MEETING TO DISCUSS THESE UTILITY CROSSINGS.
- EXISTING UTILITIES SHALL BE SPOT DUG, PRIOR TO WORK BEGINNING.
- WORK WITHIN THE STREET R/W SHALL BE ALLOWED ONLY FROM 8AM TO 5PM. THIS INCLUDES PLACEMENT AND REMOVAL OF TRAFFIC CONTROL MEASURES.
- CONTRACTOR SHALL BE PREPARED FOR EITHER A LANE SHIFT OR LANE CLOSURE, AND SHALL HAVE THE APPROPRIATE FLAGGERS/LIGHTS/BARRELS AVAILABLE TO MAINTAIN TRAFFIC AT ALL TIMES.
- A 3' CLEAR ZONE SHALL BE MAINTAINED FROM THE THEORETICAL 1:1 SLOPE AND THE EXCAVATION WORK. CONTRACTOR SHALL USE JERSEY BARRIERS, TRENCH BOX, AND/OR RAILIC PLATES AS REQUIRED TO MAINTAIN THE 1:1 SLOPE.
- SEE DETAIL C6.6 FOR PAVEMENT REPLACEMENT USING FLOWABLE FILL AND ABC STONE BACKFILL.
- EXISTING ASPHALT SHALL BE MILLED 1.5" WITHIN ANN AREA 10' EAST AND WEST OF CROSSING, AND EXTEND THE FULL WIDTH OF ROADWAY.
- NO EXCAVATION WITHIN THE CLEAR RECOVERY ZONE SHALL BE LEFT OPEN OVERNIGHT.
- THE CITY OF CONCORD AND OR THE AIRPORT AUTHORITY MAY REQUIRE A TRAFFIC CONTROL PLAN PRIOR TO COMMENCEMENT OF CONSTRUCTION.



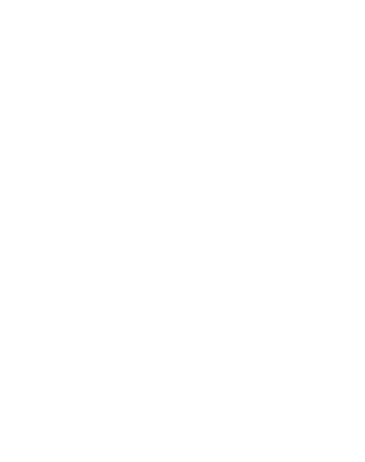
DALE FINLEY
PROFESSIONAL ENGINEER
4112/2024



Alley, Williams,
Carmon & King, Inc.
CONSULTING ENGINEERS
SURVEYING & INSPECTION



PINNACLE ARCHITECTURE
PROFESSIONAL ASSOCIATION



D. R. REYNOLDS COMPANY, INC.
708 GRIFIN FARM ROAD
STAR, NORTH CAROLINA 27358
(910) 426-4386

CONCORD FIRE STATION NO. 6
DAVID DISTRICT - NEW FACILITY
CONCORD, NC
UTILITY PLAN

REVISION	DATE	REFERENCE
1	12-12-24	PROGRESS SET

SCALE: 1"=20'
DATE: 12-12-23
JOB # 23532
C - 5.0

PERMANENT SEEDING

GROUND COVER - Whenever land disturbing activity is undertaken on a tract comprising more than one acre, if more than one contiguous acre is uncovered a ground cover sufficient to restrain erosion must be planted or otherwise provided within 14 calendar days on that portion of the tract upon further active construction is not being undertaken, provided that this subsection shall not apply to cleared land forming the basin of a reservoir to be inundated.

GRADED SLOPES AND FILL - The angle for graded slopes and fills shall be no greater than the angle which can be retained by the vegetative cover or other adequate erosion control devices or structures. In any event slopes greater than 3:1, shall be seeded within 7 calendar days following any phase of grading; on other areas permanent ground cover for all disturbed areas within 14 calendar days of completion of any phase of grading, be planted or otherwise provided with ground cover, devices, or structures sufficient to restrain erosion.

SEED BED PREPARATION - The seed bed shall be prepared by pulverizing the soil in a manner to a depth of three inches for field conditions or slopes that are 3:1 or flatter and/or to a depth of one inch to three inches as determined on site for slopes steeper than 3:1. Tilage shall continue until a well pulverized, firm, reasonably uniform seed bed is prepared conforming substantially to ground elevations as shown on the plans and/or as was existing prior to construction, blending uniformly into adjacent topography. All stones, roots, sticks, rubbish, and other objectionable material shall be removed.

The following material shall be used for reseeding disturbed areas: (note that all rates are per 1000 sf)

September 15 thru March 31
 6# Kentucky Fescue No. 31
 2# Rye Grass
 30# Fertilizer 10-10-10
 100# Lime

May 1 thru September 30
 Add 0.4# Sudan or Millet to above

MULCHING - After fertilizing, seeding, raking, and/or tilling, dried straw shall be uniformly spread (approximately 1/4 of the ground should remain visible to avoid smothering seedlings) over the area at the rate of 90 pounds per 1000 square feet. The straw shall be sprayed with liquid asphalt to bond it together and anchor it in place, preventing it from being scattered by wind and rain.

Liquid asphalt (thinned with kerosene) used during freezing weather shall be either rapid or medium curing, applied at a rate of 200 gallons per ton of straw (approximately 9 gallons per 1000 square feet).

Emulsified (thinned with water) used when temperatures are less severe shall be rapid curing only, applied at a rate of 150 gallons per ton of straw (approximately 7 gallons per 1000 square feet).

Just matting or "hold over" shall be used for temporary stabilization during the establishment of permanent cover on problem areas such as future gressed ditches, channels, ling slopes and steep banks.

MAINTENANCE - The contractor shall maintain the seeded areas until there is a uniform growth three inches high. Maintenance shall consist of watering, weed and pest control (within established laws), fertilization, erosion repair, reseeding and all else necessary to establish a vigorous healthy and uniform stand of grass. All areas and spots which do not show a uniform stand of grass for any reason shall be treated repeatedly until a uniform stand is attained.

SITE WORK CLEARING - Remove completely all trees, large rocks, shrubs, and stumps from area to be covered with building, driveway and/or parking areas. All perishable material must be completely removed from the site in such a manner as not to damage adjoining property.

EARTHWORK GENERAL Earthwork shall include the loosening and removal, transporting, storage, backfilling, grading and all handling of natural soil, deposited soils, or rock for construction of all work under this contract.

EXCAVATION FOR STRUCTURES: Conform to elevations and dimensions shown within a tolerance of plus or minus 0.10."

REMOVAL OF UNSATISFACTORY SOIL MATERIALS: Excavate existing fill material and other unsatisfactory soil materials encountered that extend below required elevations, to additional depth directed by the soils engineer. Existing fill materials shall be completely removed from the building site and existing virgin soil within such areas shall be removed to the depth as directed by the soils engineer.

ROCK EXCAVATION: Rock shall be excavated by whatever means necessary to the bottom of the structures to be constructed. Where explosives are used, work shall be done experienced powdermen using small charges in strict accordance with all regulations governing this work. The contractor shall be responsible for any damage or injury to any persons, property, or structures as a result of his blasting operations. Payment will be made for rock excavation in an amount per cubic yard indicated on the bid form.

STRUCTURAL FILL MATERIAL: Fill material shall be compacted by an approved method to at least 92 % of maximum dry density as determined by ASTM D698, latest edition. In no case shall fill contain trash, wood block, plaster, stones or fragments of masonry over 3" in diameter, or organic material of any kind. No fill shall be placed until the soil has been checked by a laboratory and approved by the engineer. The moisture in the soil shall not vary more than 2% above or 3% below the optimum when it is being installed in the fill.

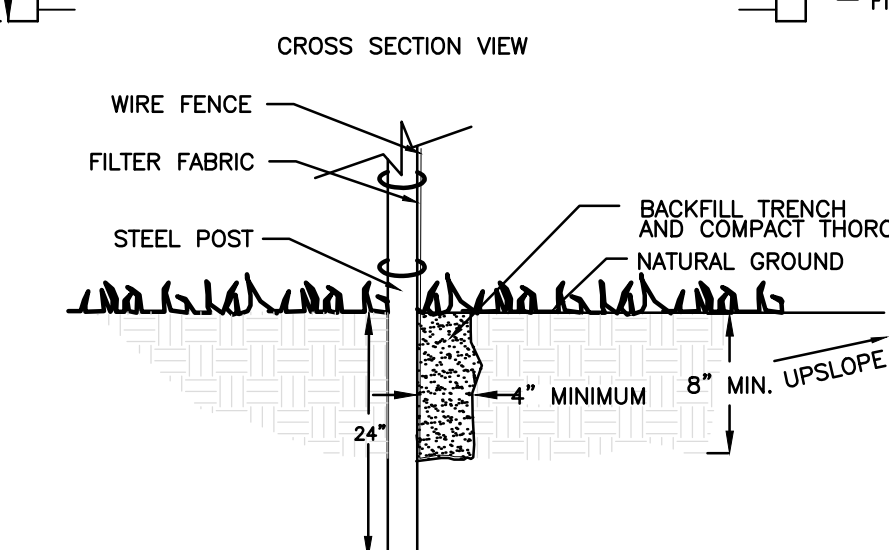
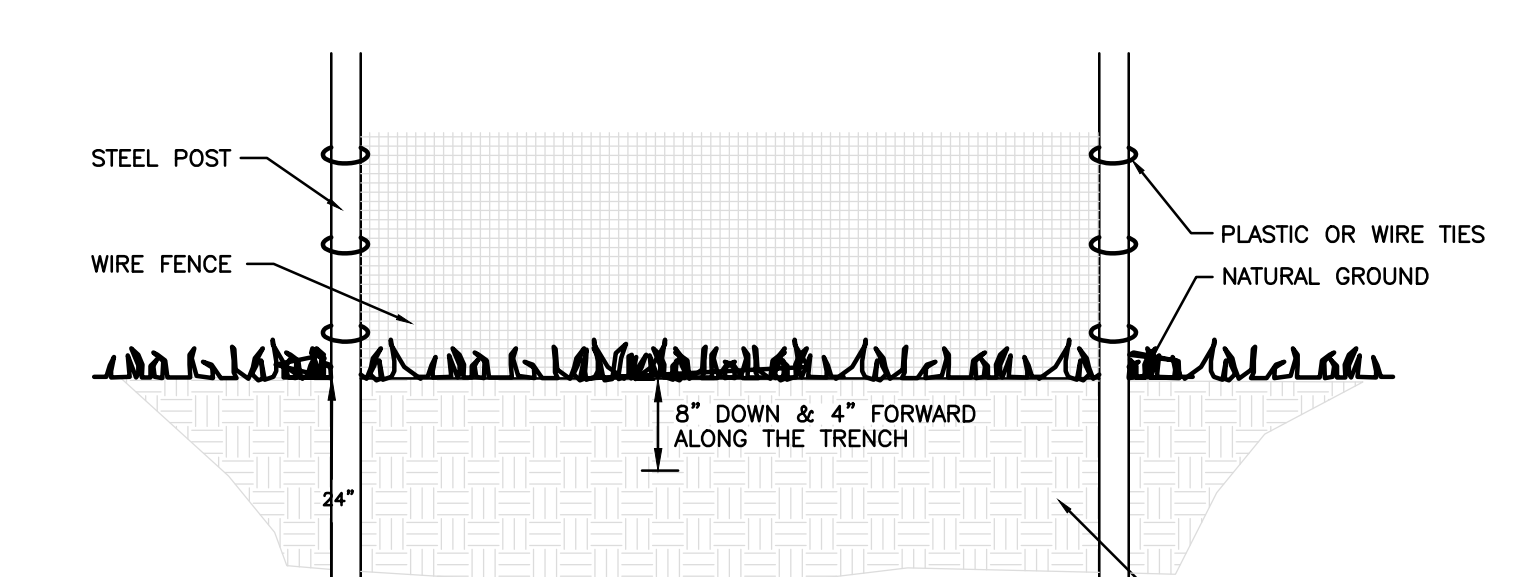
INSTALLATION OF FILL: All fill shall be formed of approved material placed in successive layers of not more than 6" in depth. Each successive layer shall be thoroughly compacted with approved mechanical tampers to the required density. When this fill has been placed, the engineer shall be notified so that it may be inspected before it is covered. All fill shall be at optimum moisture content when compacted as follows in accordance with ASTM D698 (Method C):
 Structure Top 12 inches 100%
 Remainder 95% Common All depth

Drives & Top 18 inches 92%
 Parking Remainder 95%

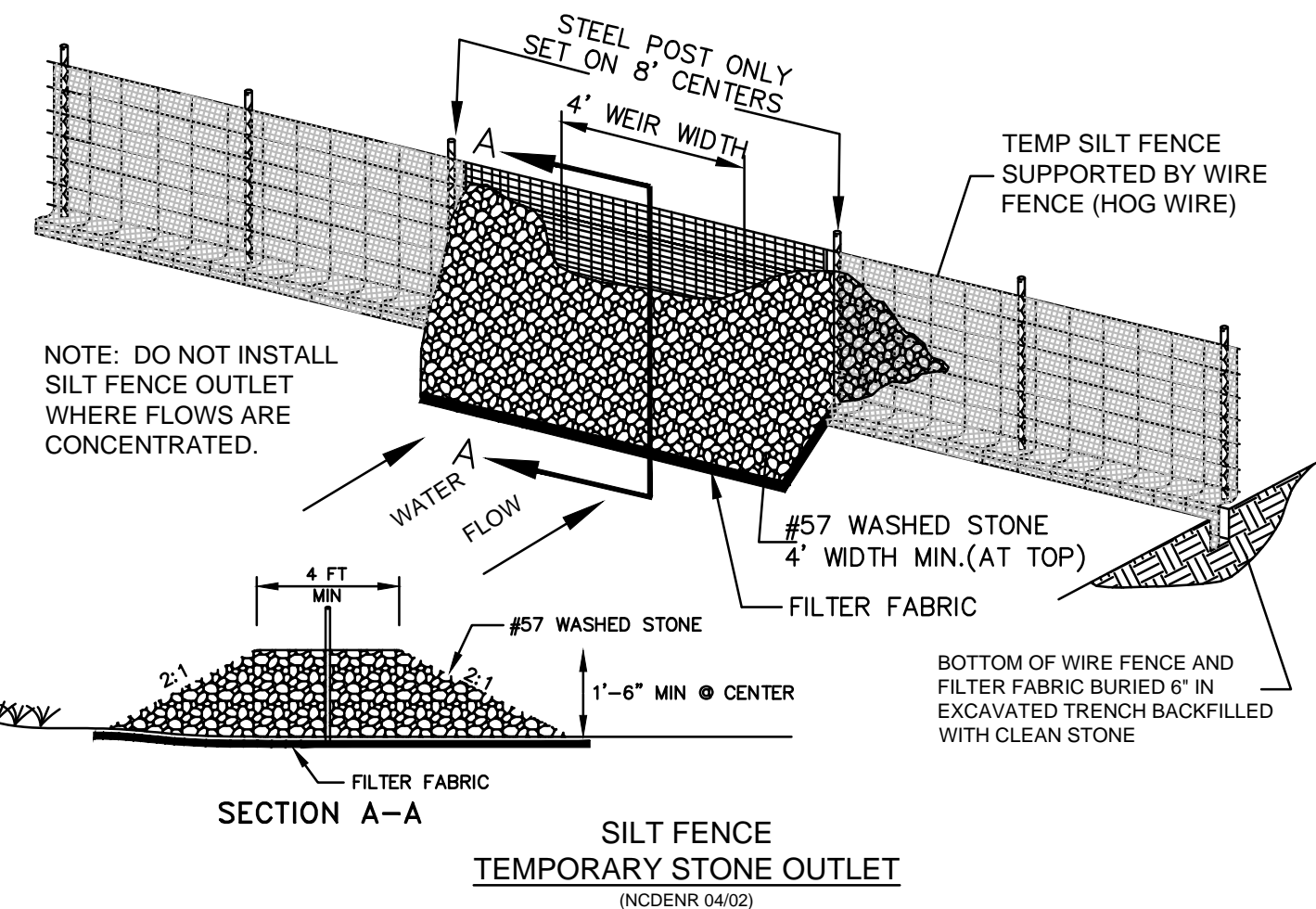
THE OWNER SHALL FURNISH AND PAY FOR ALL FILL TESTING

STRIPPING AND STOCKPILING OF TOPSOIL: Strip all topsoil to its entire depth in the areas to be graded and pile in approved or designated areas before any grading or filling is begun. Soil shall be free from clay, large stones and debris. The topsoil shall be used for final finish grading.

BLASTING: Blasting will not be permitted without special authorization of the owner, the engineer, and local authorities.
FILL MATERIAL: The general contractor shall furnish all fill required to bring the grades to level as shown on the drawings.



2 SITEWORK AND EARTHWORK NOTES NTS



Construction Specifications:
 Materials -
 1. Use a synthetic filter fabric of at least 95% by weight of polypropylene or polyester, which is certified by the manufacturer or supplier as conforming to the requirements in ASTM D 6611, which is shown in part in Table 6.62b.
 Synthetic fabric should contain ultraviolet ray inhibitors and stabilizers to provide a minimum of 6 months of expected usable construction life at a temperature range of 0 to 120 F.
 2. Ensure that posts for sediment fences are 1.33 lb/linear ft. steel with a minimum length of 5 feet. Make sure that steel posts have projections to facilitate fastening the fabric.
 3. For reinforcement of standard strength filter fabric use wire fence with a minimum 14 gauge and a maximum mesh spacing of 6 inches.

Construction -
 Construct the sediment barrier of standard strength or extra strength synthetic filter fabric.
 1. Ensure that the height of the sediment fence does not exceed 24 inches above the ground surface. (Higher fences may impound volumes of water sufficient to cause failure of the structure.)
 2. Construct the filter fabric on a continuous roll cut to the length of the barrier to avoid joints. When joints are necessary, securely fasten the filter cloth only at a support post with a 4 foot minimum overlap to the next post.
 3. Support standard strength filter fabric by wire mesh fastened securely to the upslope side of the posts. Extend the wire mesh support to the bottom of the trench. Fasten the wire reinforcement, then fabric on the upslope side of the fence post. Wire or plastic zip ties shall have minimum 50 pound tensile strength.
 4. When a wire mesh support fence is used, space posts a maximum of 8 feet apart. Support posts should be driven securely into the ground a minimum of 24 inches.

4 TEMPORARY SEDIMENT FENCE NTS

A. ALL WORK TO BE DONE IN ACCORDANCE WITH CITY OF CONCORD, WSACC, NCDOT, NCE&NR STANDARD SPECIFICATIONS AND PROJECT SPECIFICATIONS. WHEN SPECIFICATIONS ARE IN CONFLICT THE STRICTER SHALL BE HELD.

B. ALL BENCHMARK LOCATIONS AND ELEVATIONS ARE TO BE VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING CONSTRUCTION.

C. THIS PLAN DOES NOT PURPORT TO SHOW ALL EXISTING UTILITIES, LINES, APPURTENANCES, ETC., AND THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES, PIPES, VALVES, ETC., AS SHOWN ARE IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES, LINES, PIPES, ETC., BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT RESULT FROM THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES, PIPES AND VALVES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY CONFLICTS WITH EXISTING OR PROPOSED FACILITIES TO DETERMINE IF AN ITEM WILL NEED TO BE RELOCATED.

D. THE CONTRACTOR SHALL PROVIDE THE APPROPRIATE BARRICADES, WARNING LIGHTS AND SIGNS TO ENSURE THE SAFETY OF THE PUBLIC AT ALL TIMES.

E. CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS PRIOR TO CONSTRUCTION. ANY SIGNIFICANT VARIATIONS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER.

F. DIMENSIONS AS SHOWN, ARE TO FACE OF CURB, FACE OF BUILDING, AND EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.

G. LANDSCAPE CONTRACTOR SHALL HAVE UNDERGROUND UTILITY CONTRACTOR LOCATE LINES PRIOR TO INSTALLATION OF TREES AND SHRUBS.

H. SEWER SERVICE LATERALS AND WATER SERVICE CONNECTIONS AND MAINS, ARE SUBJECT TO THE MINIMUM CLEARANCE REQUIREMENTS OF TEN (10) FEET HORIZONTAL AND EIGHTEEN (18) INCHES VERTICAL FROM THE MAIN, WHEN ONE LINE IS ABOVE OR BELOW BUT LESS THAN EIGHTEEN (18) INCHES CLEARANCE. BOTH LINES SHALL BE CONSTRUCTED TO CLASS 50 D.I.P. WITH MECHANICAL JOINTS EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF TEN (10) FEET MEASURED AT RIGHT ANGLES ON EACH SIDE OF SAID LINES.

I. WHENEVER A WATER MAIN CROSSES OVER A BURIED UTILITY DITCH, EITHER OVER OR UNDER WITH LESS THAN ONE AND ONE HALF (1.5) FEET OF VERTICAL CLEARANCE, THE UTILITY DITCH SHALL BE SPANNED WITH D.I.P. FOR A DISTANCE OF TEN (10) FEET EACH SIDE OF SAID LINE.

J. THREE (3) FEET MINIMUM COVER SHALL BE PROVIDED FOR ALL WATER AND SEWER LINES UNLESS FERROUS MATERIAL PIPE IS SPECIFIED. FERROUS MATERIAL PIPE OR OTHER PIPE WITH THE PROPER BEDDING TO DEVELOP THE REQUIRED DESIGN SUPPORTING STRENGTH SHALL BE PROVIDED WHERE WATER AND SEWER LINES ARE SUBJECT TO TRAFFIC BEARING LOADS.

K. THE EXISTING UTILITIES SHALL REMAIN IN SERVICE UNTIL NEW LINES ARE IN PLACE AND ACTIVATED. THE CONTRACTOR SHALL COORDINATE REMOVAL OF SERVICES WITH THE APPROPRIATE UTILITY COMPANY AND THE OWNER.

L. THE ENGINEER HAS MADE NO EXAMINATION TO DETERMINE WHETHER ANY HAZARDOUS OR TOXIC MATERIALS ARE PRESENT OR CONTAINED IN, UNDER, OR ON THE SUBJECT PROPERTY OR ITS WATERS; OR IF ANY HAZARDOUS OR TOXIC MATERIALS HAVE CONTAMINATED THIS OR OTHER PROPERTIES OR ITS WATERS IN ANY WAY WHATSOEVER. NO SUBSURFACE EXAMINATION OF ANY TYPE HAS BEEN MADE BY THE ENGINEER AND ACCORDINGLY, NO OPINION EXPRESSED OR INFERRED ON ALL SUCH MATTERS. FURTHER, NO OPINION IS RENDERED AS TO ANY VIOLATION OF ANY ENVIRONMENTAL LAWS OR REGULATIONS, EITHER FEDERAL, STATE OR LOCAL, RELATED TO THE INFORMATION SHOWN ON THIS PLAN AND THE ENGINEER IS IN NO WAY LIABLE FOR ANY VIOLATION OF SUCH ENVIRONMENTAL LAWS SHOULD THEY EXIST.

THE CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY KIND OF LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OR ANY WORK ON THIS PROJECT, EXCEPT FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.

AT ALL TIMES, THE CONTRACTOR SHALL PERFORM PROJECT DEMOLITION WITH MINIMAL DISTURBANCE TO THE ADJACENT PROPERTIES. ALL DEBRIS GENERATED DURING THE DEMOLITION PHASE OF THE PROJECT, SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.

1 PERMANENT SEEDING NOTES NTS

TEMPORARY SEEDING RECOMMENDATIONS
 FOR LATE WINTER & EARLY SPRING

SEEDING MIXTURE:

Species	RATE (lb/acre)
Rye (grass)	120
Annual lespedeza (Kobe in Piedmont and Coastal Plain, Korean in Mountains)	50

Omit annual lespedeza when duration of temporary cover is not to extend beyond June.

SEEDING DATES:
 Mountains - above 2500 ft - Feb. 15 - May 15
 below 2500 ft - Feb. 1 - May 1
 Piedmont - Jan. 1 - May 1
 Coastal Plain - Dec. 1 - Apr. 15

SOIL AMENDMENTS:
 Follow recommendations of soil tests or apply 2000 lb/acre ground agricultural limestone and 750 lb/acre 10-10-10 fertilizer.

MULCH
 Apply 4000 lb/acre straw. Anchor straw by tacking with asphalt, netting, or a mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch anchoring tool.

MAINTENANCE
 Referfile if growth is not fully adequate. Reseed, referfertilize and mulch immediately following erosion or other damage.

TEMPORARY SEEDING RECOMMENDATIONS
 FOR SUMMER

SEEDING MIXTURE:

Species	RATE (lb/acre)
German Millet	40
In the Piedmont and Mountains, a small-stemmed Sudangrass may be substituted at a rate of 50 lb/acre	

SEEDING DATES:
 Mountains - May 15 - Aug. 15
 Piedmont - May 1 - Aug. 15
 Coastal Plain - Apr. 15 - Aug. 15

SOIL AMENDMENTS:
 Follow recommendations of soil tests or apply 2000 lb/acre ground agricultural limestone and 750 lb/acre 10-10-10 fertilizer.

MULCH
 Apply 4000 lb/acre straw. Anchor straw by tacking with asphalt, netting, or a mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch anchoring tool.

MAINTENANCE
 Referfile if growth is not fully adequate. Reseed, referfertilize and mulch immediately following erosion or other damage.

TEMPORARY SEEDING RECOMMENDATIONS
 FOR FALL

SEEDING MIXTURE:

Species	RATE (lb/acre)
Rye (grass)	120

SEEDING DATES:
 Mountains - Aug. 15 - Dec. 15
 Piedmont - Aug. 15 - Dec. 30
 Coastal Plain - Aug. 15 - Dec. 30

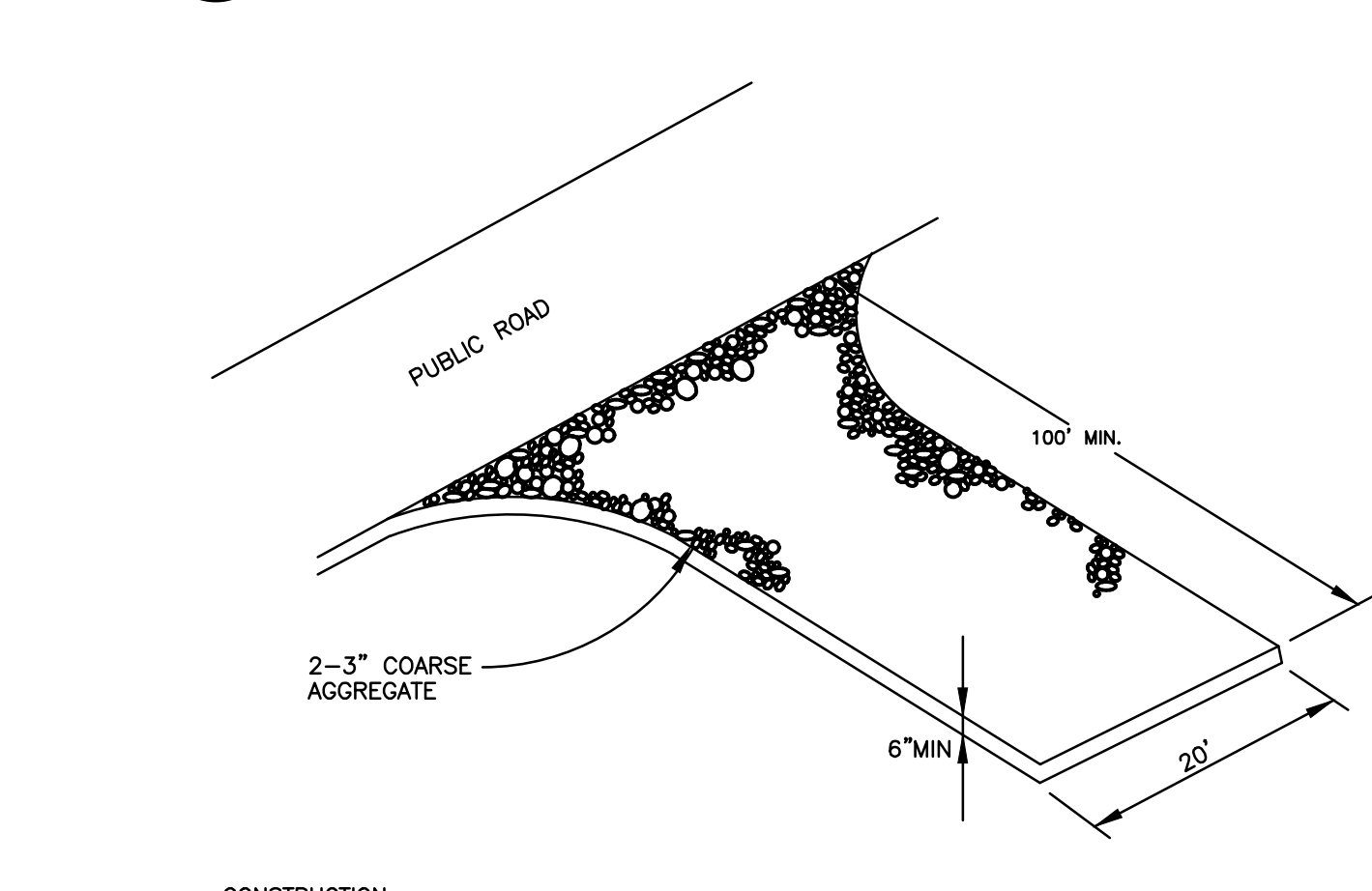
SOIL AMENDMENTS:
 Follow recommendations of soil tests or apply 2000 lb/acre ground agricultural limestone and 1000 lb/acre 10-10-10 fertilizer.

MULCH
 Apply 4000 lb/acre straw. Anchor straw by tacking with asphalt, netting, or a mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch anchoring tool.

MAINTENANCE
 Repair and referfertilize damaged areas immediately. Topdress with 50/ acre of nitrogen in March. If it is necessary to extend temporary cover beyond June 15, overseed with 50/ Kobe (Piedmont and Coastal Plain) of Korean (Mountains) lespedeza in late February or early March.

5 TEMPORARY SEEDING NOTES NTS

3 SEDIMENT FENCE STONE OUTLET NTS



6 TEMPORARY CONSTRUCTION ENTRANCE NTS

7 GENERAL CONSTRUCTION NOTES NTS

alley, williams, carmen & king, inc. CONSULTING ENGINEERS, SURVEYING & INSPECTION

PINNACLE ARCHITECTURE PROFESSIONAL ASSOCIATION

REVISION SCHEDULE
 DATE REFERENCE
 2/14/21 Progress Set

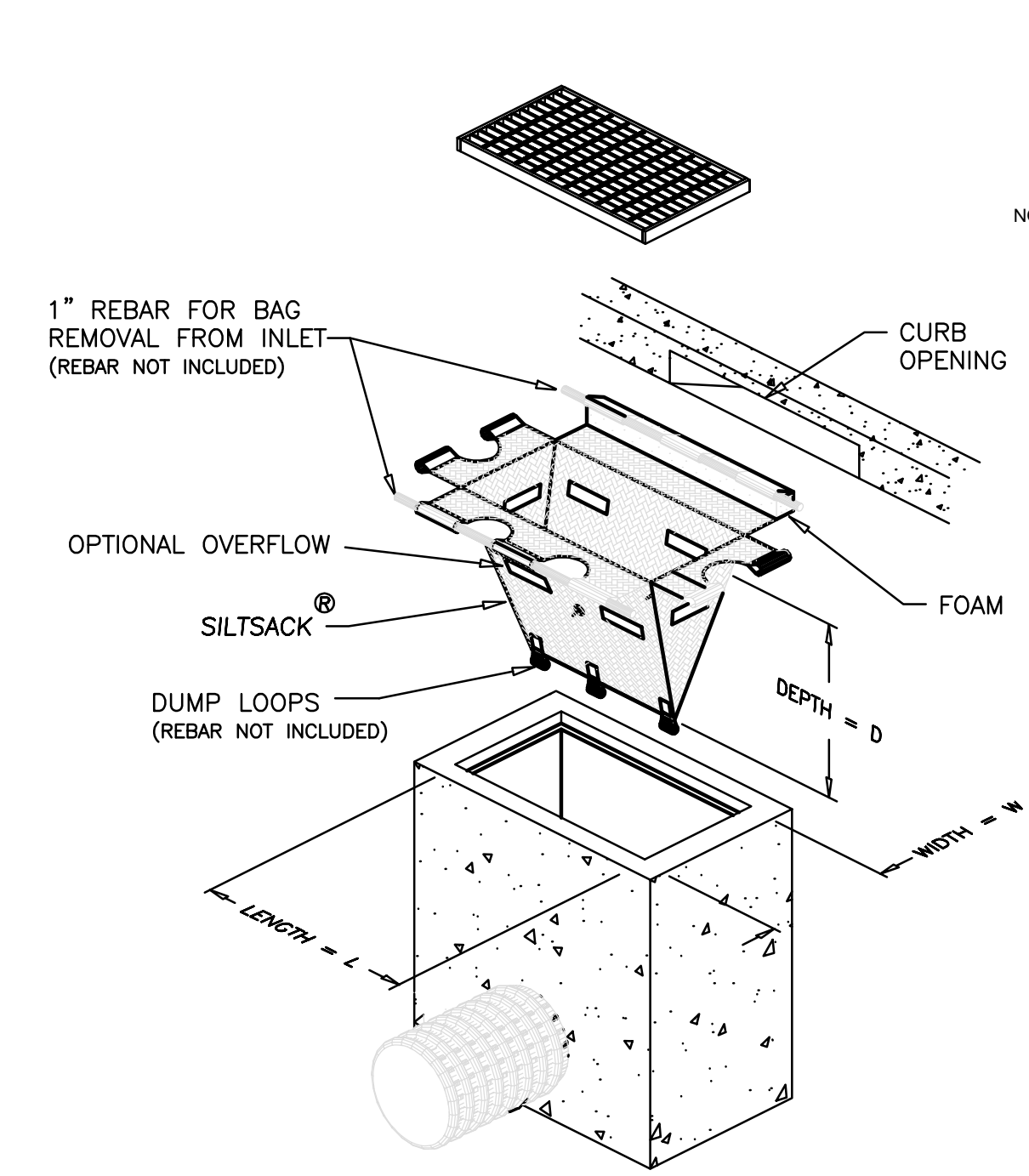
SCALE: NTS
 DATE: 1-4-24
 JOB # 23532
 C - 6.0

CONCORD FIRE STATION NO. 6
 DAVID DISTRICT - NEW FACILITY
 CONCORD, NC
 DETAILS & SPECIFICATIONS

REVISION SCHEDULE
 DATE REFERENCE
 2/14/21 Progress Set

SCALE: NTS
 DATE: 1-4-24
 JOB # 23532
 C - 6.0



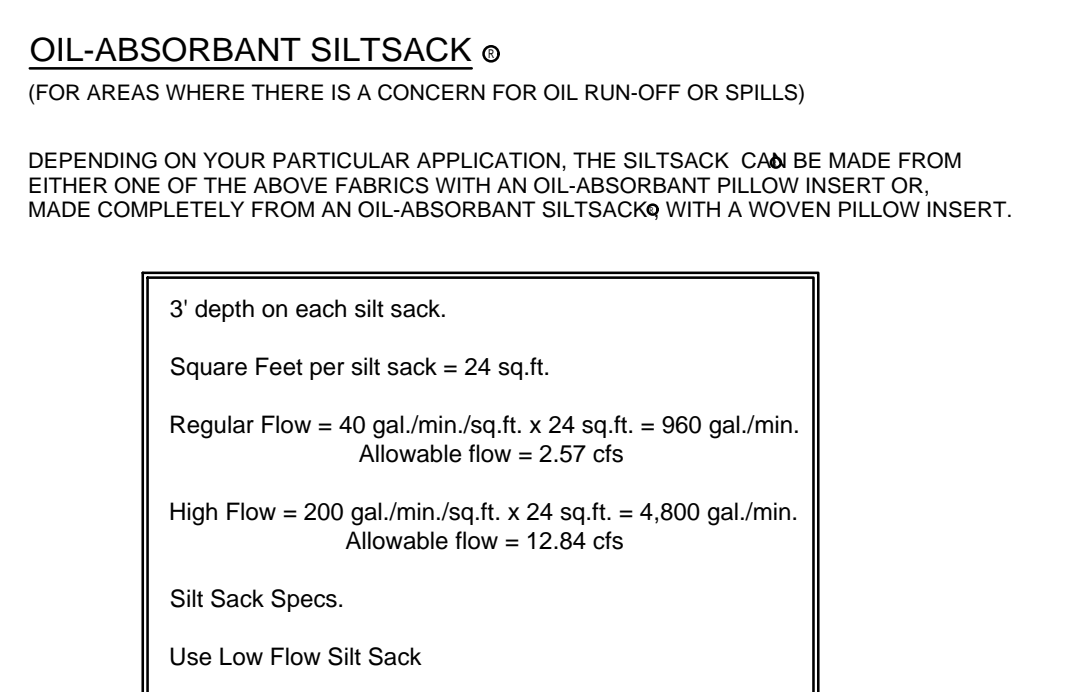


SILTSACK® SPECIFICATIONS

NOTE: THE SILTSACK WILL BE MANUFACTURED FROM A WOVEN POLYPROPYLENE FABRIC THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS.

PROPERTIES	TEST METHOD	UNITS
REGULAR FLOW SILTSACK (FOR AREAS OF LOW TO MODERATE PRECIPITATION AND RUN-OFF)		
GRAB TENSILE STRENGTH	ASTM D-4632	300 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20 %
PUNCTURE	ASTM D-3786	120 LBS
MULLEN BURST	ASTM D-3786	800 PS
TRAPEZOID TEAR	ASTM D-4533	120 LBS
UV RESISTANCE	ASTM D-4355	80 %
APPARENT OPENING SIZE	ASTM D-4751	40 US SIEVE
FLOW RATE	ASTM D-4481	40 GAL/MINSQ FT
PERMITTIVITY	ASTM D-4481	0.55 SEC -1

PROPERTIES	TEST METHOD	UNITS
HI-FLOW SILTSACK (FOR AREAS OF MODERATE TO HEAVY PRECIPITATION AND RUN-OFF)		
GRAB TENSILE STRENGTH	ASTM D-4632	265 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20 %
PUNCTURE	ASTM D-3786	135 LBS
MULLEN BURST	ASTM D-3786	420 PS
TRAPEZOID TEAR	ASTM D-4533	45 LBS
UV RESISTANCE	ASTM D-4355	90 %
APPARENT OPENING SIZE	ASTM D-4751	20 US SIEVE
FLOW RATE	ASTM D-4481	200 GAL/MINSQ FT
PERMITTIVITY	ASTM D-4481	1.5 SEC -1



DETAIL OF INLET SEDIMENT CONTROL DEVICE WITH CURB DEFLECTOR

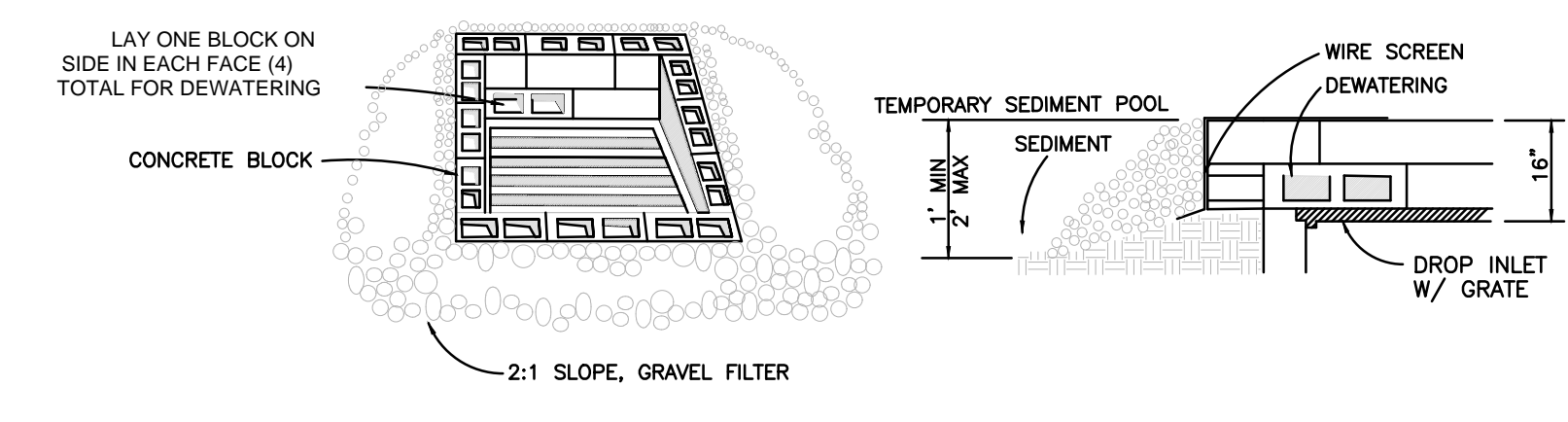
1 SILT SACK NTS

MAINTENANCE
Inspect the barrier after each rain and make repairs as needed. Remove sediment as necessary to provide adequate storage volume for subsequent rains. When the contributing drainage area has been adequately stabilized, remove all materials and any unstable soil, and either salvage or dispose of it properly. Bring disturbed area to proper grade, then smooth and compact it. Appropriately stabilize all bare areas around the inlet.

DEFINITION A sediment control barrier formed around a storm drain inlet by the use of standard concrete block & gravel.

PURPOSE To help prevent sediment from entering storm drains before stabilizing the contributing watershed. This practice allows early use of the storm drain system.

- CONSTRUCTION SPECIFICATIONS**
- Lay one block on each side of the structure on its side in the bottom row to allow pool drainage. The foundation should be excavated at least 2 inches below the crest of the storm drain. Place the bottom row of blocks against the edge of the storm drain for lateral support and to avoid washouts when overflow occurs. If needed, give lateral support to subsequent rows by placing 2X4 wood studs through block openings.
 - Carefully fit hardware cloth or comparable wire mesh with 1/2 inch openings over all block openings to hold gravel in place.
 - Use clean gravel, 3/4 to 1 1/2 inch in diameter, placed 2 inches below the top of the block on a 2:1 slope or flatter and smooth it to an even grade. dot #57 washed stone is recommended.
 - If only stone and gravel are used, keep the slope toward the inlet no steeper than 3:1. Leave a minimum 1 ft. wide level stone area between the structure and around the inlet to prevent gravel from entering inlet. On the slope toward the inlet, use stone 3 inches in diameter or larger. On the slope away from the inlet use 1/2 - 3/4 inch gravel (nodot #57 washed stone) at a minimum thickness of 1 ft.

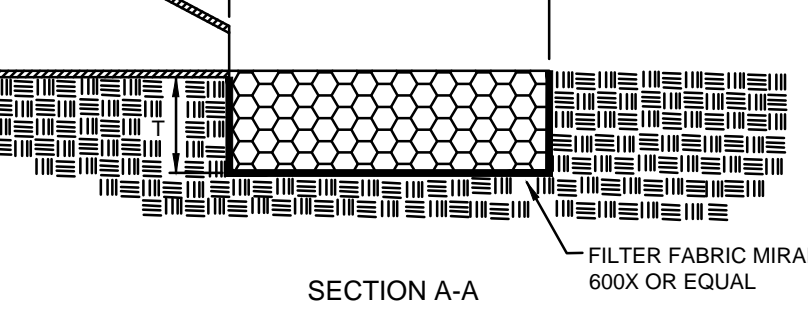
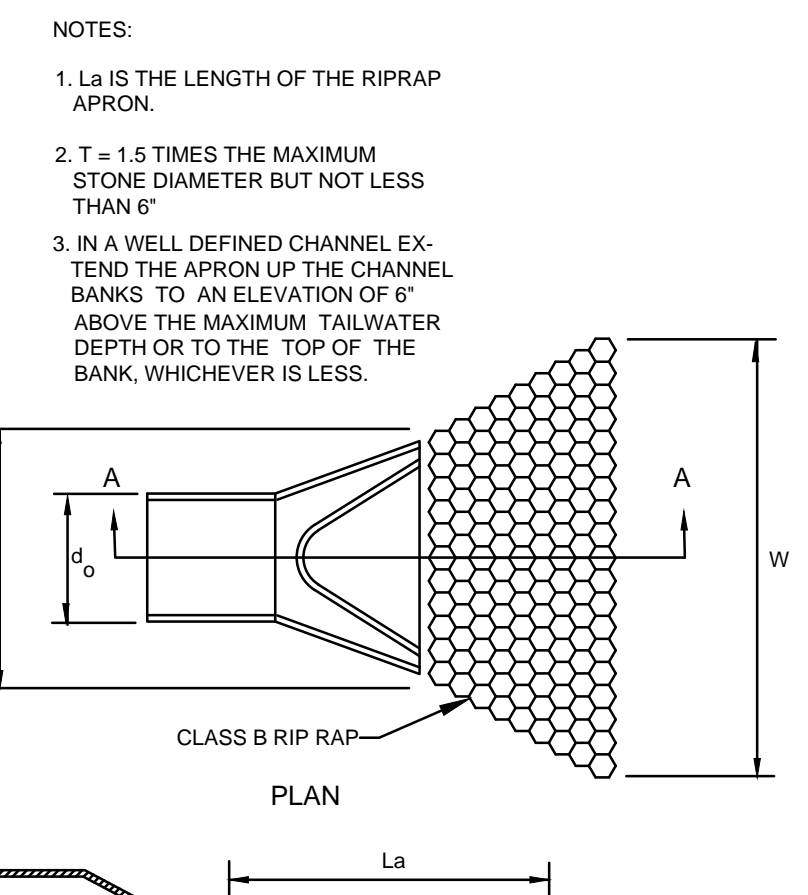


4 GRAVEL INLET PROTECTION NTS

LAY ONE BLOCK ON SIDE IN EACH FACE 4' TOTAL FOR DEWATERING

- CONSTRUCTION SPECIFICATIONS**
- ENSURE THAT THE SUBGRADE FOR THE FILTER AND RIPRAP FOLLOWS THE REQUIRED LINES AND GRADES SHOWN IN THE PLAN. COMPACT ANY FILL REQUIRED IN THE SUBGRADE TO THE DENSITY OF THE SURROUNDING UNDISTURBED MATERIAL. LOW AREAS IN THE SUBGRADE ON UNDISTURBED SOIL MAY ALSO BE FILLED BY INCREASING THE RIPRAP THICKNESS.
 - THE RIPRAP AND FILTER FABRIC MUST CONFORM TO THE SPECIFIED GRADING LIMITS SHOWN ON THE PLANS.
 - FILTER FABRIC MUST MEET DESIGN REQUIREMENTS AND BE PROPERLY PROTECTED FROM PUNCHING OR TEARING DURING INSTALLATION. REPAIR ANY DAMAGE BY REMOVING THE RIPRAP AND PLACING ANOTHER PIECE OF FILTER CLOTH OVER THE DAMAGED AREA. ALL CONNECTING JOINTS SHOULD OVERLAP A MINIMUM OF 1 FT. IF THE DAMAGE IS EXTENSIVE, REPLACE THE ENTIRE FILTER CLOTH.
 - RIPRAP MAY BE PLACED BY EQUIPMENT, BUT TAKE CARE TO AVOID DAMAGING THE FILTER.
 - THE MINIMUM THICKNESS OF THE RIPRAP SHOULD BE 1.5 TIMES THE MAXIMUM STONE DIAMETER.
 - RIPRAP MAY BE FIELD STONE OR ROUGH QUARRY STONE. IT SHOULD BE HARD, ANGULAR, HIGHLY WEATHER-RESISTANT AND WELL GRADED.
 - CONSTRUCT THE APRON ON ZERO GRADE WITH NO OVERFALL AT THE END. MAKE THE TOP OF THE RIPRAP AT THE DOWNSTREAM END LEVEL WITH THE RECEIVING AREA OR SLIGHTLY BELOW IT.
 - ENSURE THAT THE APRON IS PROPERLY ALIGNED WITH THE RECEIVING STREAM AND PREFERABLY STRAIGHT THROUGHOUT ITS LENGTH. IF A CURVE IS NEEDED TO FIT SITE CONDITIONS, PLACE IT IN THE UPPER SECTION OF THE APRON.
 - IMMEDIATELY AFTER CONSTRUCTION, STABILIZE ALL DISTURBED AREAS WITH VEGETATION.

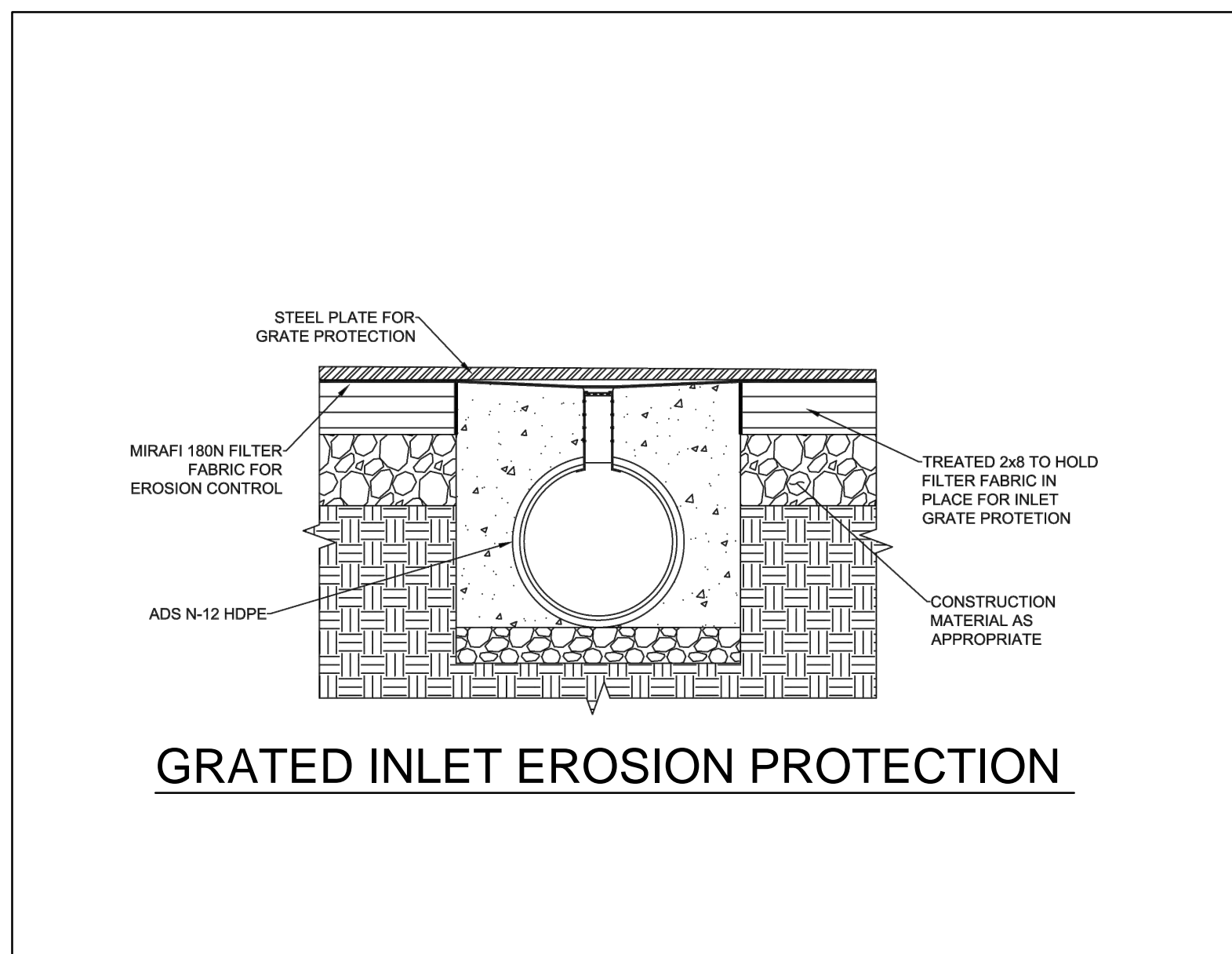
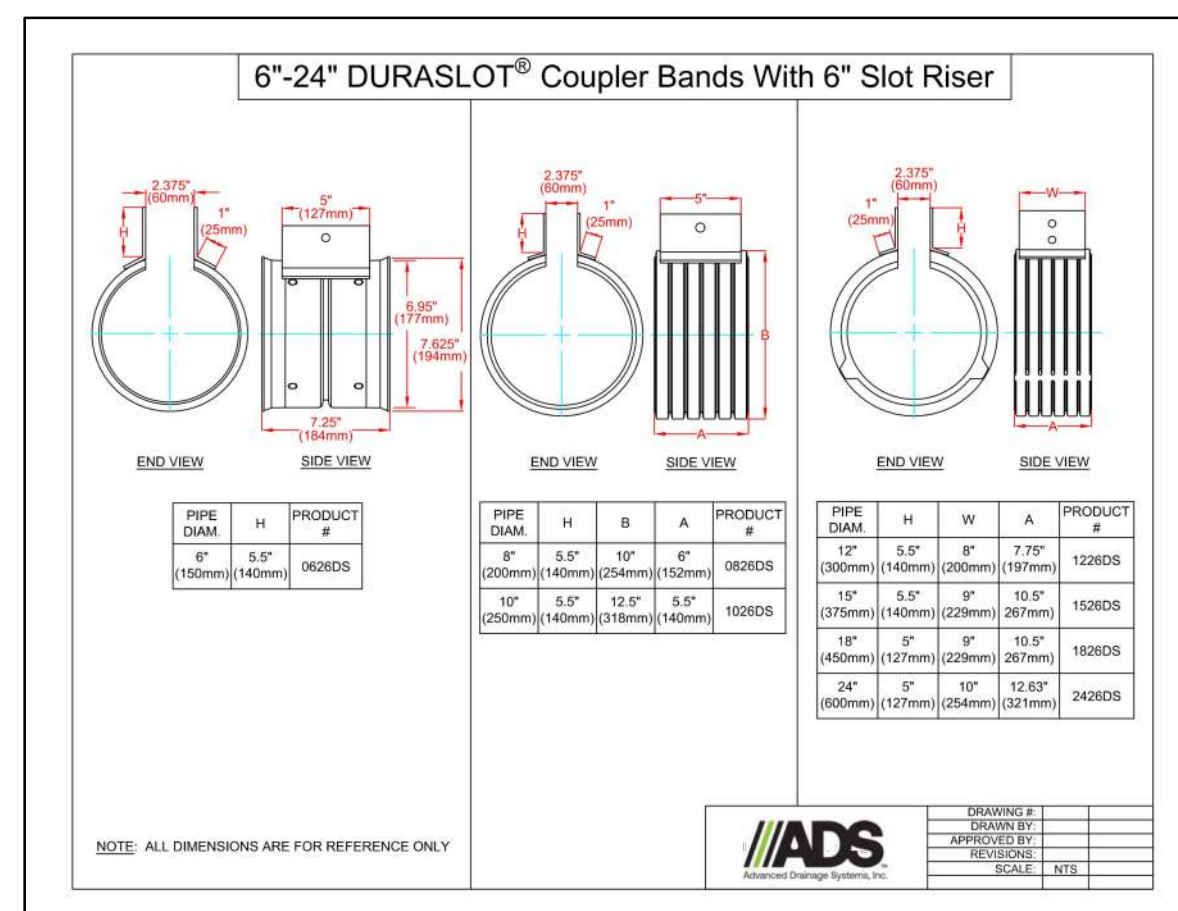
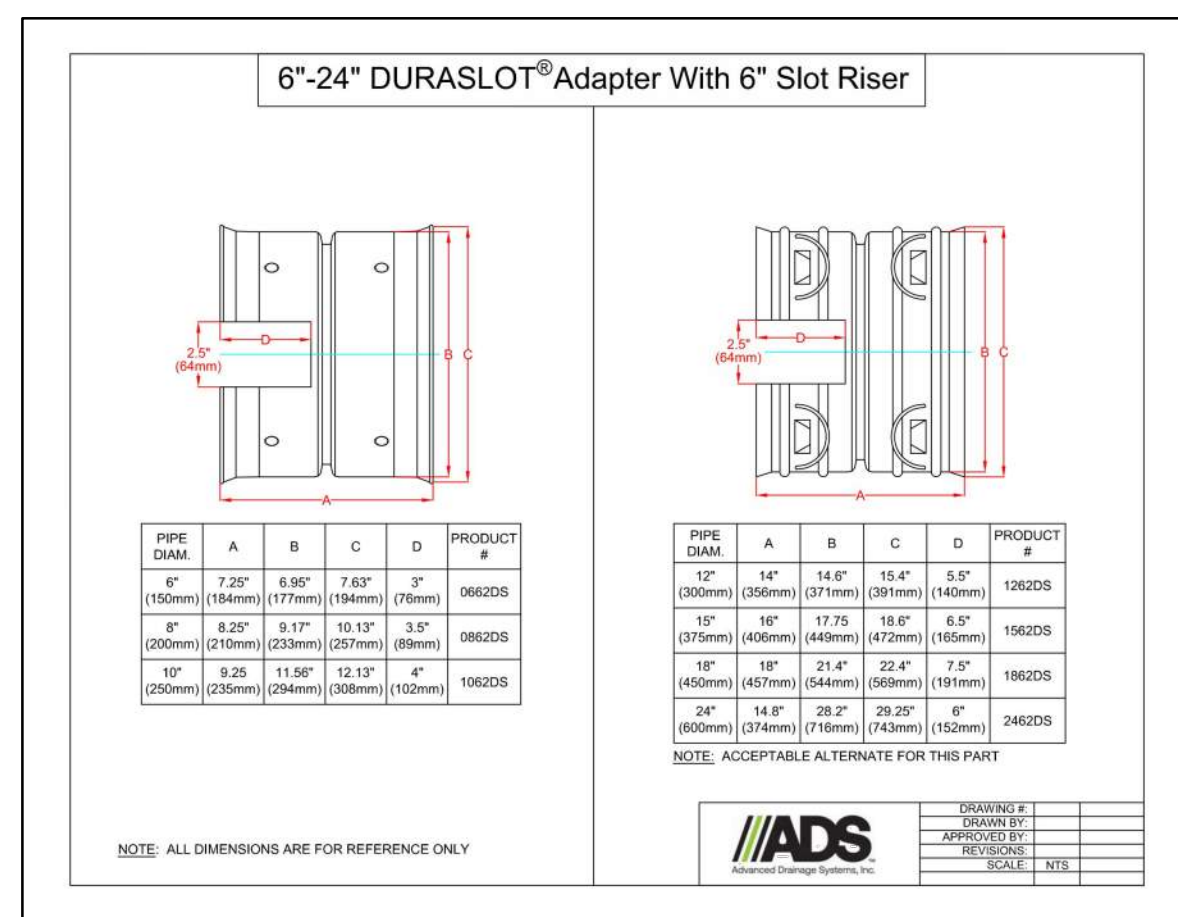
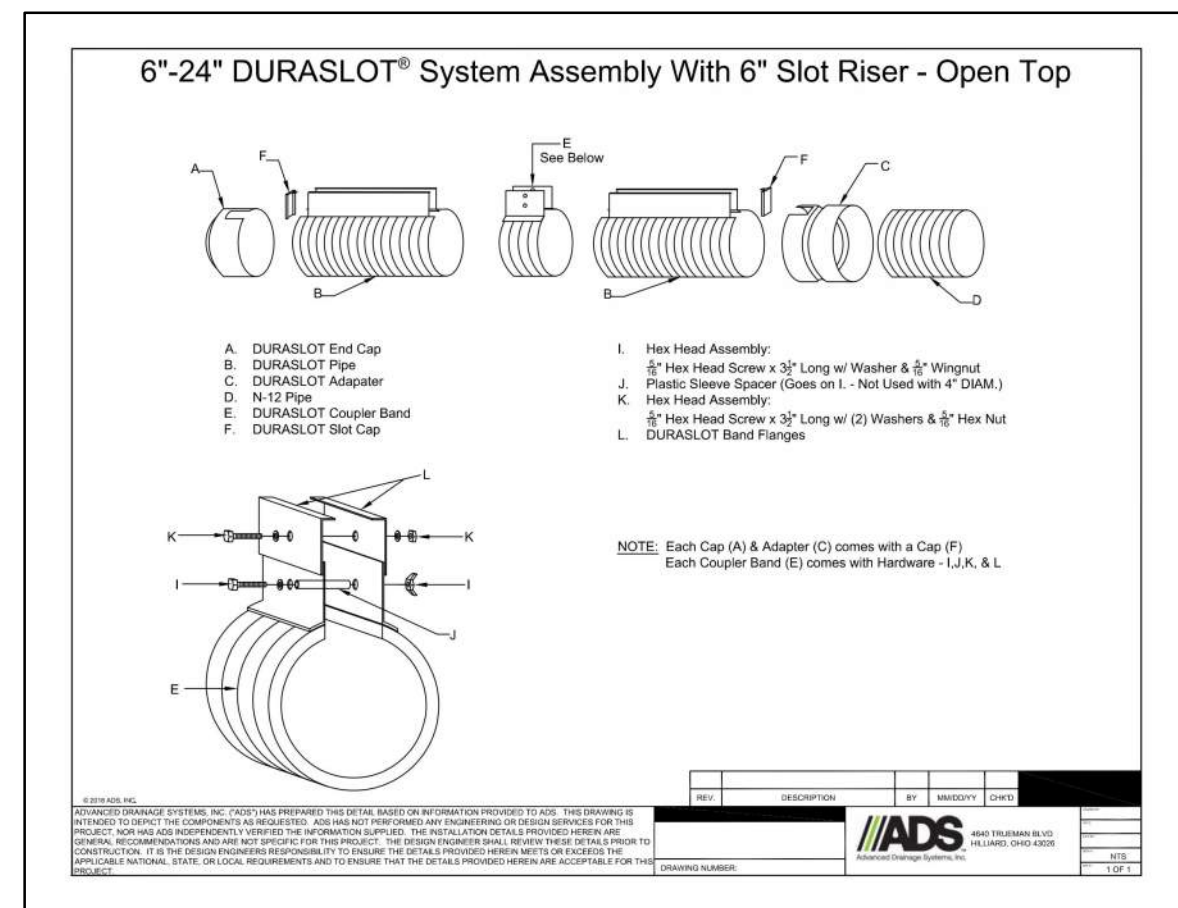
LOCATION	Q(cfs)	d ₀	L _a	W	d ₅₀	d
OUTFALL	18.02	24	4.5'	4.5'	6"	14"



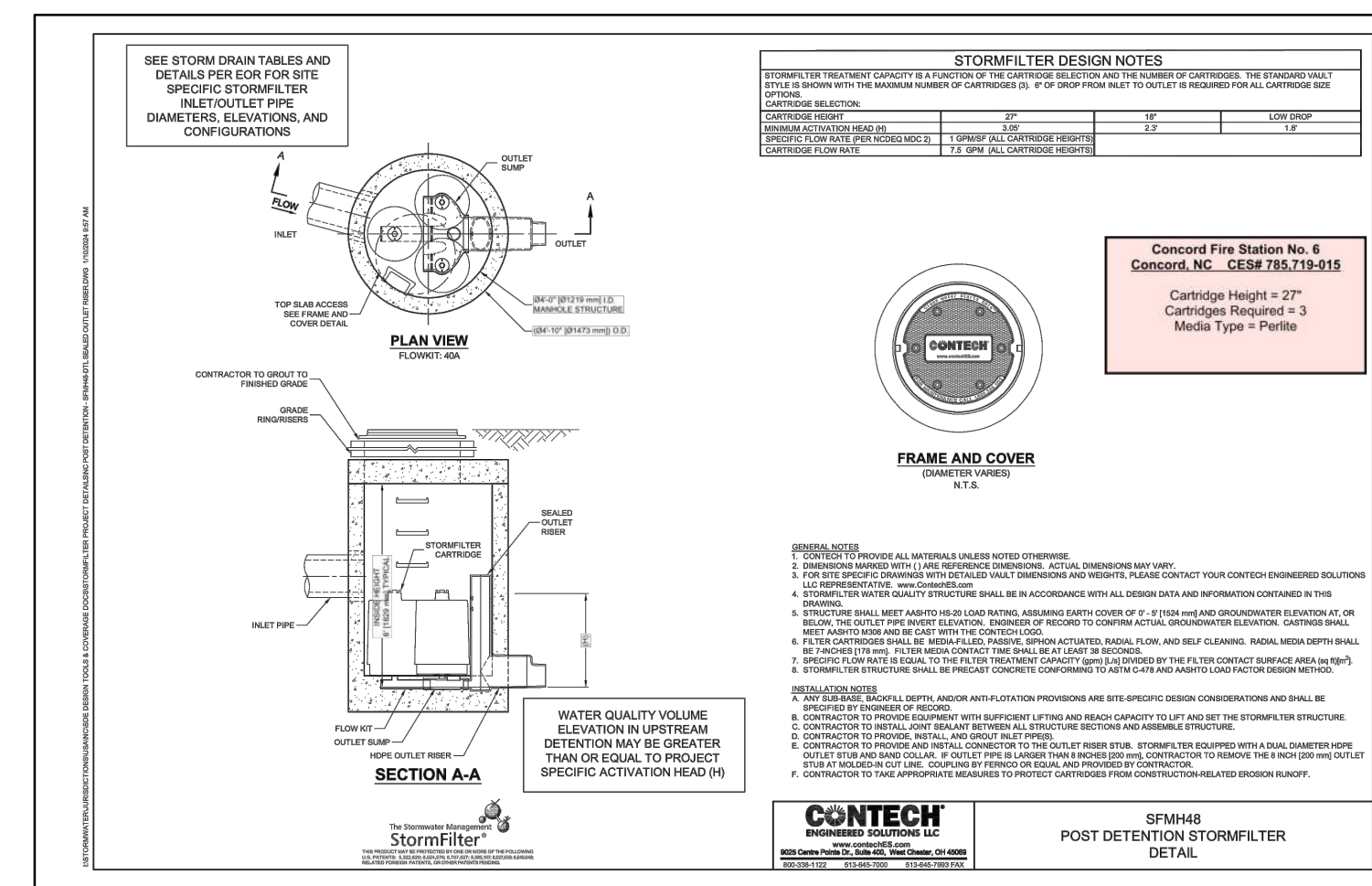
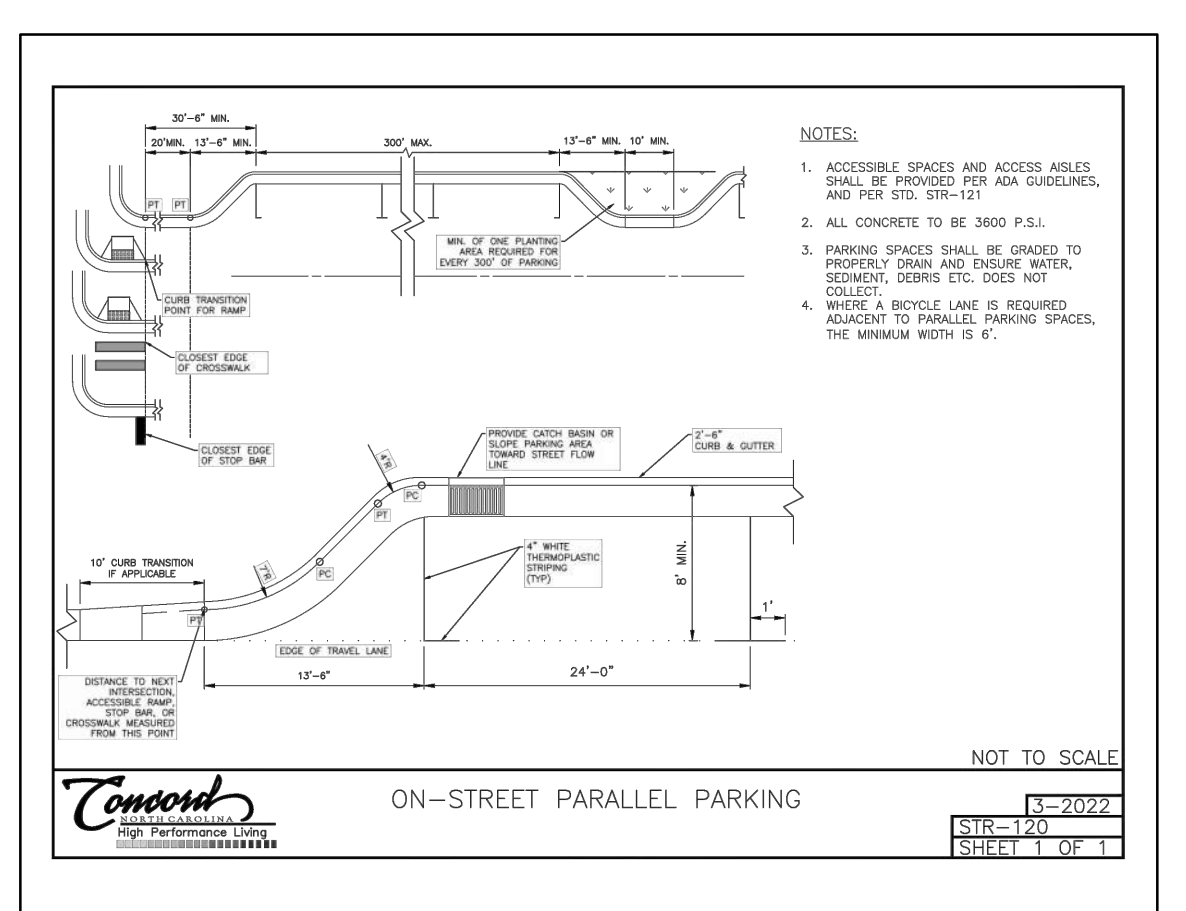
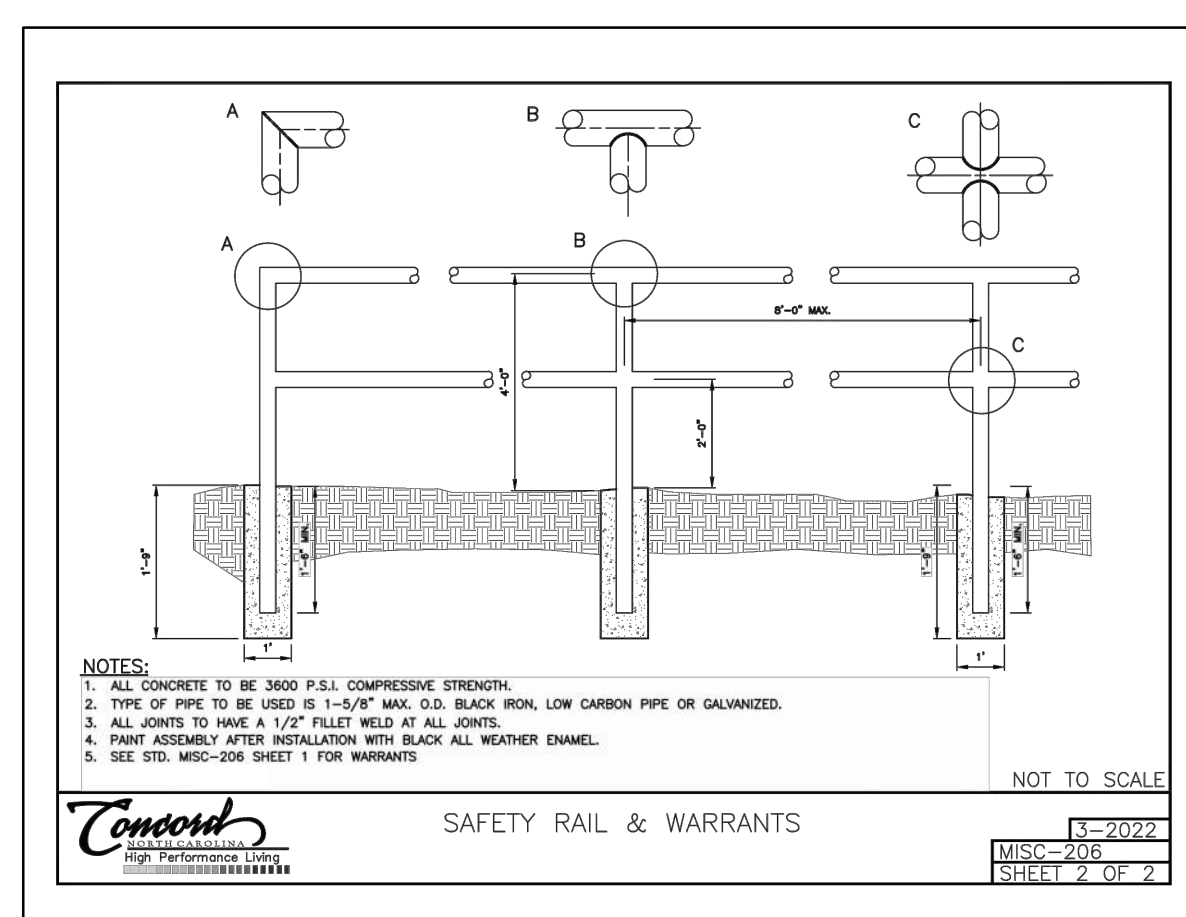
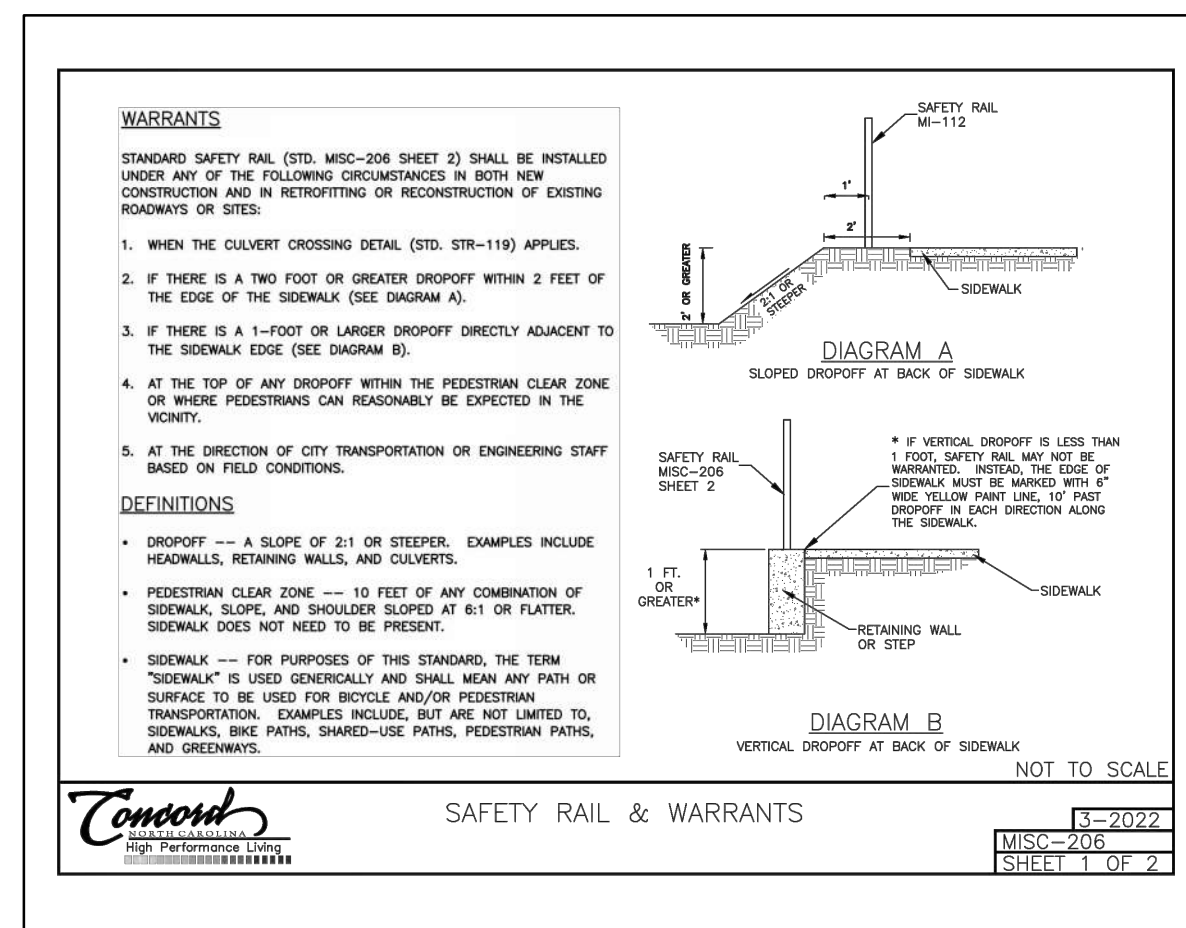
2 OUTLET STABILIZATION NTS

GENERAL NOTES:
CHAMFER ALL EXPOSED CORNERS 1".
USE CLASS "C" CONCRETE THROUGHOUT.
OPTIONAL CONSTRUCTION - MONOLITHIC FORM, 3" RETENTION, OR 3/4" RETENTION CONCRETE WITH 3/4" CONCRETE AS SHOWN IN THE PLAN OF BOX, ADD TO SIDE AS SHOWN ON STANDARD NO. 840.00.
PROVIDE ALL JUNCTION BOXES OVER 12" IN DEPTH WITH STEPS 12" OR LESS IN WIDTH AND 3" OR LESS IN RISE.
ADJUST THE STEEL CONCRETE AND BRICK WORKING QUANTITIES TO INCLUDE THE WEIGHT OF THE MANHOLE (SEE LITERATURE PROVIDED WITH THIS DRAWING, OPENING ON TOP SILE).
WEIGHT OF THIS STRUCTURE FROM THE WEIGHT SLIP TO TOP CONTROL MAXIMUM DEPTH IF PRESENT BOX IS SHOWN.

DIMENSIONS OF BOX AND PIPE		REINFORCEMENT			TOP SLAB DIMENSIONS			CARBON FIBER DIMENSIONS			TOTAL QUANTITIES			SUBTOTALS FOR BOX AND BLANK			SUBTOTALS FOR BOX AND BLANK					
D	W	H	NO.	LENGTH	E	F	TOP	BOTTOM	REIN. PER SQ. FT.	C. E.	K. C.	NO.	WT.	NO.	WT.	C. E.	K. C.	NO.	WT.	C. E.	K. C.	
12"	2'-0"	2'-0"	12	3'-0"	3'-0"	0.107	0.107	0.107	0.107	0.107	0.107	33	3.700	0.016	0.016	0.016	0.016	33	3.700	0.016	0.016	0.016
15"	2'-0"	2'-0"	12	3'-0"	3'-0"	0.109	0.109	0.109	0.109	0.109	0.109	34	3.800	0.017	0.017	0.017	0.017	34	3.800	0.017	0.017	0.017
18"	2'-0"	2'-0"	12	3'-0"	3'-0"	0.111	0.111	0.111	0.111	0.111	0.111	35	3.900	0.018	0.018	0.018	0.018	35	3.900	0.018	0.018	0.018
21"	2'-0"	2'-0"	12	3'-0"	3'-0"	0.113	0.113	0.113	0.113	0.113	0.113	36	4.000	0.019	0.019	0.019	0.019	36	4.000	0.019	0.019	0.019
24"	2'-0"	2'-0"	12	3'-0"	3'-0"	0.115	0.115	0.115	0.115	0.115	0.115	37	4.100	0.020	0.020	0.020	0.020	37	4.100	0.020	0.020	0.020
27"	2'-0"	2'-0"	12	3'-0"	3'-0"	0.117	0.117	0.117	0.117	0.117	0.117	38	4.200	0.021	0.021	0.021	0.021	38	4.200	0.021	0.021	0.021
30"	2'-0"	2'-0"	12	3'-0"	3'-0"	0.119	0.119	0.119	0.119	0.119	0.119	39	4.300	0.022	0.022	0.022	0.022	39	4.300	0.022	0.022	0.022
33"	2'-0"	2'-0"	12	3'-0"	3'-0"	0.121	0.121	0.121	0.121	0.121	0.121	40	4.400	0.023	0.023	0.023	0.023	40	4.400	0.023	0.023	0.023
36"	2'-0"	2'-0"	12	3'-0"	3'-0"	0.123	0.123	0.123	0.123	0.123	0.123	41	4.500	0.024	0.024	0.024	0.024	41	4.500	0.024	0.024	0.024
39"	2'-0"	2'-0"	12	3'-0"	3'-0"	0.125	0.125	0.125	0.125	0.125	0.125	42	4.600	0.025	0.025	0.025	0.025	42	4.600	0.025	0.025	0.025
42"	2'-0"	2'-0"	12	3'-0"	3'-0"	0.127	0.127	0.127	0.127	0.127	0.127	43	4.700	0.026	0.026	0.026	0.026	43	4.700	0.026	0.026	0.026
45"	2'-0"	2'-0"	12	3'-0"	3'-0"	0.129	0.129	0.129	0.129	0.129	0.129	44	4.800	0.027	0.027	0.027	0.027	44	4.800	0.027	0.027	0.027
48"	2'-0"	2'-0"	12	3'-0"	3'-0"	0.131	0.131	0.131	0.131	0.131	0.131	45	4.900	0.028	0.028	0.028	0.028	45	4.900	0.028	0.028	0.028
51"	2'-0"	2'-0"	12	3'-0"	3'-0"	0.133	0.133	0.133	0.133	0.133	0.133	46	5.000	0.029	0.029	0.029	0.029	46	5.000	0.029	0.029	0.029
54"	2'-0"	2'-0"	12	3'-0"	3'-0"	0.135	0.135	0.135	0.135	0.135	0.135	47	5.100	0.030	0.030	0.030	0.030	47	5.100	0.030	0.030	0.030
57"	2'-0"	2'-0"	12	3'-0"	3'-0"	0.137	0.137	0.137	0.137	0.137	0.137	48	5.200	0.031	0.031	0.031	0.031	48	5.200	0.031	0.031	0.031
60"	2'-0"	2'-0"	12	3'-0"	3'-0"	0.139	0.139	0.139	0.139	0.139	0.139	49	5.300	0.032	0.032	0.032	0.032	49	5.300	0.032	0.032	0.032
63"	2'-0"	2'-0"	12	3'-0"	3'-0"	0.141	0.141	0.141	0.141	0.141	0.141	50	5.400	0.033	0.033	0.033	0.033	50	5.400	0.033	0.033	0.033
66"	2'-0"	2'-0"	12	3'-0"	3'-0"	0.143	0.143	0.143	0.143	0.143	0.143	51	5.500	0.034	0.034	0.034	0.034	51	5.500	0.034	0.034	0.034
69"	2'-0"	2'-0"	12	3'-0"	3'-0"	0.145	0.145	0.145	0.145	0.145	0.145	52	5.600	0.035	0.035	0.035	0.035	52	5.600	0.035	0.035	0.035
72"	2'-0"	2'-0"	12	3'-0"	3'-0"	0.147	0.147	0.147	0.147	0.147	0.147	53	5.700	0.036	0.036	0.036	0.036	53	5.700	0.036	0.036	0.036
75"	2'-0"	2'-0"	12	3'-0"	3'-0"	0.149	0.149	0.149	0.149	0.149	0.149	54	5.800	0.037	0.037	0.037	0.037	54	5.800	0.037	0.037	0.037
78"	2'-0"	2'-0"	12	3'-0"	3'-0"	0.151	0.151	0.151	0.151	0.151	0.151	55	5.900	0.038	0.038	0.038	0.038	55	5.900	0.038	0.038	0.038
81"	2'-0"	2'-0"	12	3'-0"	3'-0"	0.153	0.153	0.153	0.153	0.153	0.153	56	6.000	0.039	0.039	0.039	0.039	56	6.000	0.039	0.039	0.039
84"	2'-0"	2'-0"	12	3'-0"	3'-0"	0.155	0.155	0.155	0.155	0.155	0.155	57	6.100	0.040	0.040	0.040	0.040	57	6.100	0.040	0.040	0.040
87"	2'-0"	2'-0"	12	3'-0"	3'-0"	0.157	0.157	0.157	0.157	0.157	0.157	58	6.200	0.041	0.041	0.041	0.041	58	6.200	0.041	0.041	0.041
90"	2'-0"	2'-0"	12	3'-0"	3'-0"	0.159	0.159	0.159	0.159	0.159	0.159	59	6.300	0.042	0.042	0.042	0.042	59	6.300	0.042	0.042	0.042
93"	2'-0"	2'-0"	12	3'-0"	3'-0"	0.161	0.161	0.161	0.161	0.161	0.161	60	6.400	0.043	0.043	0.043	0.043	60	6.400	0.043	0.043	0.043
96"	2'-0"	2'-0"	12	3'-0"	3'-0"	0.163	0.163	0.163	0.163	0.163	0.163	61	6.500	0.044	0.044	0.044	0.044	61	6.500	0.044	0.044	0.044
99"	2'-0"	2'-0"	12	3'-0"	3'-0"	0.165	0.165	0.165	0.165	0.165	0.165	62	6.600	0.045	0.045	0.045	0.045	62	6.600	0.045	0.045	0.045
102"	2'-0"	2'-0"	12	3'-0"	3'-0"	0.167	0.167	0.167	0.167	0.167	0.167	63	6.700	0.046	0.046	0.046	0.046	63	6.700	0.046	0.046	0.046
105"	2'-0"	2'-0"	12	3'-0"	3'-0"	0.169	0.169	0.169	0.169	0.169	0.169	64	6.800	0.047	0.047	0.047	0.047	64	6.800	0.047	0.047	0.047
108"	2'-0"	2'-0"	12	3'-0"	3'-0"	0.171	0.171	0.171	0.171	0.171	0.171	65	6.900	0.048	0.048	0.048	0.048	65	6.900	0.048	0.048	0.048
111"	2'-0"	2'-0"	12	3'-0"	3'-0"	0.173	0.173	0.173	0.173	0.173	0.173	66	7.000	0.049	0.049	0.049	0.049	66	7.000	0.049	0.049	0.049
114"	2'-0"	2'-0"	12	3'-0"	3'-0"	0.175	0.175	0.175	0.175	0.175	0.175	67	7.100	0.050	0.050	0.050	0.050	67	7.100	0.050	0.050	0.050
117"	2'-0"	2'-0"	12	3'-0"	3'-0"	0.177	0.177	0.177	0.177	0.177	0.177	68	7.200	0.051	0.051	0.051	0.051	68	7.200	0.051	0.051	0.051
120"	2'-0"	2'-0"	12	3'-0"	3'-0"	0.179	0.179	0.179	0.179	0.179	0.179	69	7.300	0.052	0.052	0.052	0.052	69	7.300	0.052	0.052	0.052
123"	2'-0"	2'-0"	12	3'-0"	3'-0"	0.181	0.181	0.181	0.181	0.181	0.181	70	7.400	0.053	0.053	0.053	0.053	7				



1 ADS DURASLOT TRENCH SYSTEM NTS



5 CONTECH UG SCM SYSTEM NTS



4/12/2024

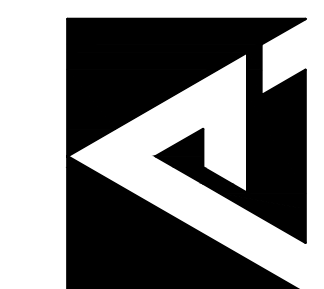
CONCORD FIRE STATION NO. 6
DAVID DISTRICT - NEW FACILITY
CONCORD, NC
DETAILS & SPECIFICATIONS

REVISION SCHEDULE

DATE	REFERENCE
2/14/24	Program Set

SCALE: NTS
DATE: 1-4-24
JOB # 23532
C - 6.2

alley, williams, carmen & king, inc.
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GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT

Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction.

SECTION II - GROUND STABILIZATION

Require Storm Stabilization Timeframes

Site Area Description	Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b) High Quality Water (HQW) Zones	7	None
(c) Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed.
(d) Slopes 3:1 to 4:1	14	7 days for slopes greater than 50' in length and with slopes steeper than 4:1 7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones 10 days for Falls Lake Watershed
(e) Areas with slopes flatter than 4:1	14	7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones 10 days for Falls Lake Watershed unless there is zero slope

Note: After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

GROUND STABILIZATION SPECIFICATION

Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the techniques in the table below:

Temporary Stabilization	Permanent Stabilization
<ul style="list-style-type: none"> Temporary grass seed covered with straw or other mulches and tackifiers Hydroseeding Roll-on erosion control products with or without temporary grass seed Appropriately applied straw or other mulch Plastic sheeting 	<ul style="list-style-type: none"> Permanent grass seed covered with straw or other mulches and tackifiers Geotextile fabric such as permanent soil reinforcement matting Hydroseeding Shrubs or other permanent plantings covered with mulch Uniform and evenly distributed ground cover sufficient to retain erosion Structural methods such as concrete, asphalt or retaining walls Roll-on erosion control products with grass seed

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

- Select flocculants that are appropriate for the soils being exposed during construction, selecting from the NC DWR List of Approved PAMS/Flocculants.
- Apply flocculants at or before the inlets to Erosion and Sediment Control Measures.
- Apply flocculants at the concentrations specified in the NC DWR List of Approved PAMS/Flocculants and in accordance with the manufacturer's instructions.
- Provide ponding area for containment of treated Stormwater before discharging offsite.
- Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.

HAZARDOUS AND TOXIC WASTE

- Create designated hazardous waste collection areas on-site.
- Place hazardous waste containers under cover or in secondary containment.
- Do not store hazardous chemicals, drums or bagged materials directly on the ground.

CONCRETE WASHOUTS

- Do not discharge concrete or cement slurry from this site.
- Dispose of, or recycle, settled, hardened concrete residue in accordance with local and state solid waste regulations and an approved facility.
- Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within 10' perimeter silt fence.
- Install temporary concrete washouts per local requirements, where applicable. If an alternate method or product is to be used, contact your approval authority for review and approval. If local standards details are not available, use one of the two types of temporary concrete washouts provided on this detail.
- Do not use concrete washouts for dewatering or stirring defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project.
- Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlets closest to the washout which could receive spills or overflow.
- Locate washouts in an easily accessible area, on level ground and install a stone entrance pad in front of the washout. Additional controls may be required by the approving authority.
- Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location.
- Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.
- At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

EQUIPMENT AND VEHICLE MAINTENANCE

- Maintain vehicles and equipment to prevent discharge of fluids.
- Provide drip pans under any stored equipment.
- Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
- Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
- Remove leaking vehicles and construction equipment from service until the problem has been corrected.
- Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

- Never bury or burn waste. Place litter and debris in approved waste containers.
- Provide a sufficient number and size of waste containers (e.g. dumpster, trash receptacle) on site to contain construction and domestic wastes.
- Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland.
- Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
- Anchor all lightweight items in waste containers during times of high winds.
- Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
- Dispose waste off-site at an approved disposal facility.
- On business days, clean up and dispose of waste in designated waste containers.

PAINT AND OTHER LIQUID WASTE

- Do not dump paint and other liquid waste into storm drains, streams or wetlands.
- Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Contain liquid wastes in a controlled area.
- Containment must be labeled, sized and placed appropriately for the needs of site.
- Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

PORTABLE TOILETS

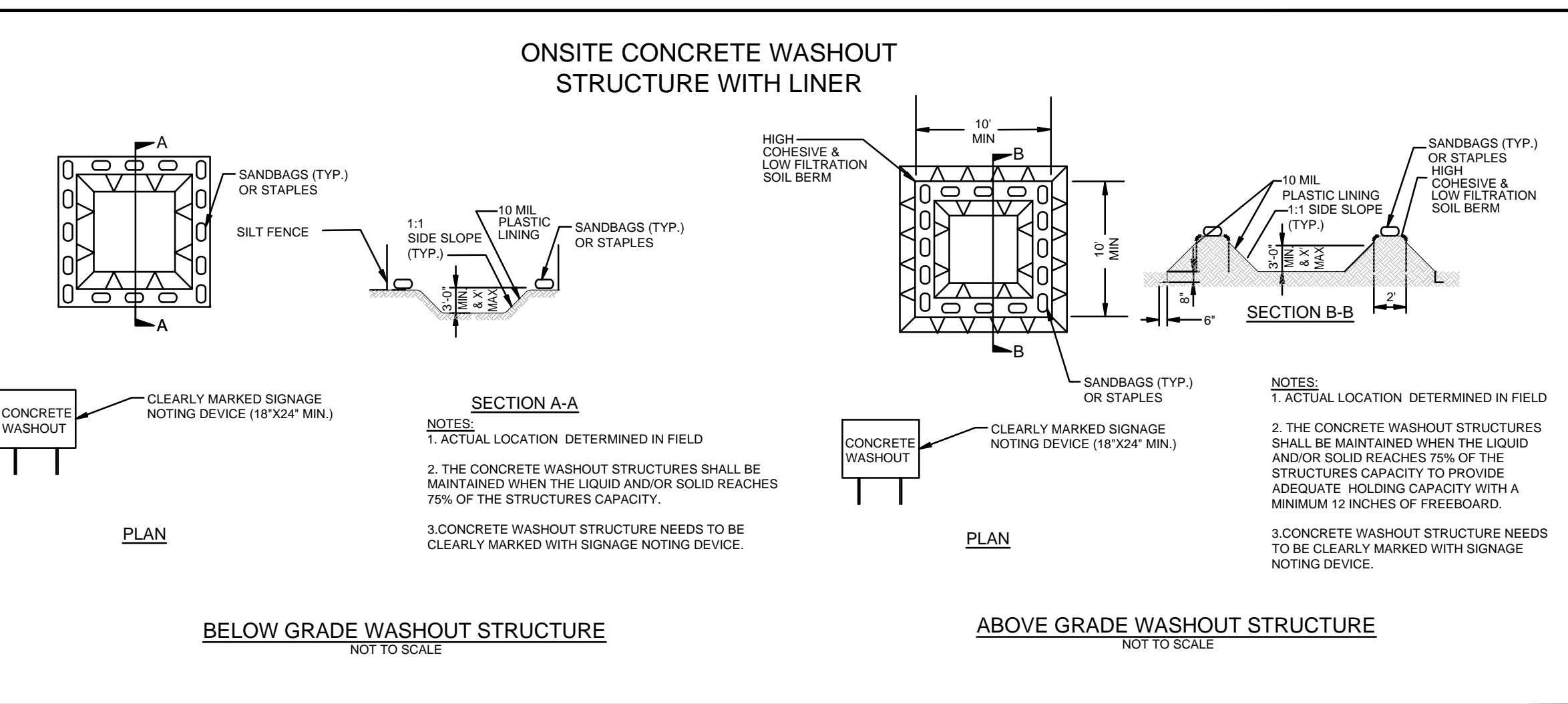
- Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 60 feet offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags.
- Provide stacking or anchoring of portable toilets during periods of high winds or in high foot traffic areas.
- Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit.

EARTHEN STOCKPILE MANAGEMENT

- Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown that no other alternatives are reasonably available.
- Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
- Provide stable stone access point when feasible.
- Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.

HERBICIDES, PESTICIDES AND RODENTICIDES

- Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.
- Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
- Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately.
- Do not stockpile these materials on-site.



PART III

SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A. SELF-INSPECTION

Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. In addition, when a storm event of equal to or greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the Inspection Record.

Inspect	Frequency (during normal business hours)	Inspection records must include:
(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend or holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those un-attended days (and this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "zero". The permittee may use another rain-monitoring device approved by the Division.
(2) EASC Measures	At least once per 7 calendar days and within 24 hours of a rain event > 1.0 inch	1. Identification of the measures inspected. 2. Date and time of the inspection. 3. Name of the person performing the inspection. 4. Identification of whether the measures were operating properly. 5. Description of maintenance needs for the measures. 6. Description, evidence, and date of corrective actions taken.
(3) Stormwater discharge outlets (SDCOs)	At least once per 7 calendar days and within 24 hours of a rain event > 1.0 inch	1. Identification of the discharge outlets inspected. 2. Date and time of the inspection. 3. Name of the person performing the inspection. 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration. 5. Indication of visible sediment leaving the site. 6. Description, evidence, and date of corrective actions taken.
(4) Perimeter of site	At least once per 7 calendar days and within 24 hours of a rain event > 1.0 inch	If visible sedimentation is found outside site limits, then a record of the following shall be made: 1. Actions taken to clean up or stabilize the sediment that has left the site limits. 2. Description, evidence, and date of corrective actions taken, and 3. An explanation as to the actions taken to control future releases.
(5) Streams or wetlands onsite or offsite (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event > 1.0 inch	If the stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made: 1. Description, evidence and date of corrective actions taken, and 2. Records of the required reports to the appropriate Division Regional Office per Part 111, Section C, Item (2)(d) of this permit.
(6) Ground stabilization measures	At least once per phase of grading	1. The phases of grading (installation of perimeter EASC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover). 2. Documentation that the required ground stabilization measures have been provided within the required timeframe and an assurance that they will be provided as soon as possible.

NOTE: The rain inspection resets the required 7 calendar day inspection requirement.

PART III

SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B. RECORDKEEPING

1. EASC Plan Documentation

The approved EASC plan as well as any approved deviation shall be kept on the site. The approved EASC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the EASC plan shall be kept on site and available for inspection at all times during normal business hours.

Item to Document	Documentation Requirements
(a) Each EASC measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved EASC plan.	Initial and date each EASC measure on a copy of the approved EASC plan or complete, date and sign an inspection report that lists each EASC measure shown on the approved EASC plan. This documentation is required upon the initial installation of the EASC measures or if the EASC measures are modified after initial installation.
(b) A phase of grading has been completed.	Initial and date a copy of the approved EASC plan or complete, date and sign an inspection report to indicate completion of the construction phase.
(c) Ground cover is located and installed in accordance with the approved EASC plan.	Initial and date a copy of the approved EASC plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.
(d) The maintenance and repair requirements for all EASC measures have been performed.	Complete, date and sign an inspection report.
(e) Corrective actions have been taken to EASC measures.	Initial and date a copy of the approved EASC plan or complete, date and sign an inspection report to indicate the completion of the corrective action.

2. Additional Documentation to be Kept on Site

In addition to the EASC plan documents above, the following items shall be kept on the site and available for inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:

- This General Permit as well as the Certificate of Coverage, after it is received.
- Records of inspections made during the previous twelve months. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.

3. Documentation to be Retained for Three Years

All data used to complete the NCI and all inspection records shall be maintained for a period of three years after project completion and made available upon request. (40 CFR 122.41)

PART III

SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C. REPORTING

1. Occurrences that Must be Reported

Permittees shall report the following occurrences:

- Visible sediment deposition in a stream or wetland.
- Oil spills if:
 - They are 25 gallons or more.
 - They are less than 25 gallons but cannot be cleaned up within 24 hours.
 - They cause sheen on surface waters (regardless of volume), or
 - They are within 100 feet of surface waters (regardless of volume).
- Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 113.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.
- Anticipated bypasses and unanticipated bypasses.
- Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timeframes and Other Requirements

After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Department's Environmental Emergency Center personnel at (800) 858-0368.

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	Within 24 hours , an oral or electronic notification. Within 7 calendar days , a report that contains a description of the sediment and deposition in a stream or wetland. Actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis. If the stream is named on the NC 203(g) list as impaired for sediment-related causes, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.
(b) Oil spills and release of hazardous substances per item (b)(1)(i) above	Within 24 hours , an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.
(c) Anticipated bypasses (40 CFR 122.41(f)(3))	A report at least ten days before the date of the bypass , if possible. The report shall include an evaluation of the anticipated quality and effect of the bypass.
(d) Unanticipated bypasses (40 CFR 122.41(f)(3))	Within 24 hours , an oral or electronic notification. Within 7 calendar days , a report that includes an evaluation of the quality and effect of the bypass.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment (40 CFR 122.41(i)(7))	Within 24 hours , an oral or electronic notification. Within 7 calendar days , a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including start dates and times; and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance. (40 CFR 122.41(i)(6)). Division staff may waive the requirement for a written report on a case-by-case basis.

PART II, SECTION G, ITEM (4)

DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT

Sediment basins and traps that receive runoff from drainage areas of one acre or more shall use outlet structures that withdraw water from the surface when these devices need to be drawn down for maintenance or close out unless this is infeasible. The circumstances in which it is not feasible to withdraw water from the surface shall be rare (for example, times with extended cold weather). Non-surface withdrawals from sediment basins shall be allowed only when all of the following criteria have been met:

- The EASC plan authority has been provided with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur. The non-surface withdrawal shall not commence until the EASC plan authority has approved these items.
- The non-surface withdrawal has been reported as an anticipated bypass in accordance with Part III, Section C, Item (2)(c) and (d) of this permit.
- Dewatering discharges are treated with controls to minimize discharges of pollutants from stormwater that is removed from the sediment basin. Examples of appropriate controls include properly sized, designed and maintained dewatering tanks, weir tanks, and filtration systems.
- Vegetated upland areas of the site or a properly designed stone pad is used to the extent feasible in the outlet of the dewatering treatment devices described in item (c) above.
- Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices; and
- Sediment is disposed of in a manner that does not cause deposition of sediment into waters of the United States.



REVISION SCHEDULE

DATE	REFERENCE
2/14/06	Program Set

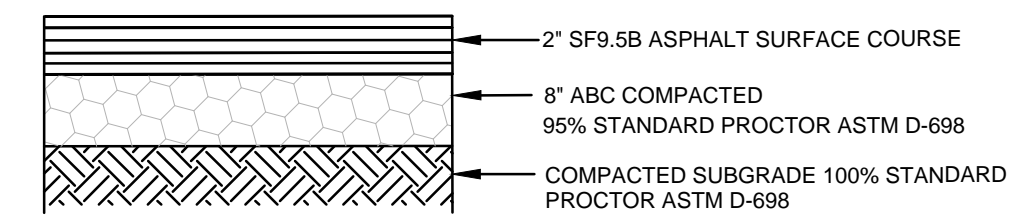
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DATE: 1-4-24
JOB # 23532

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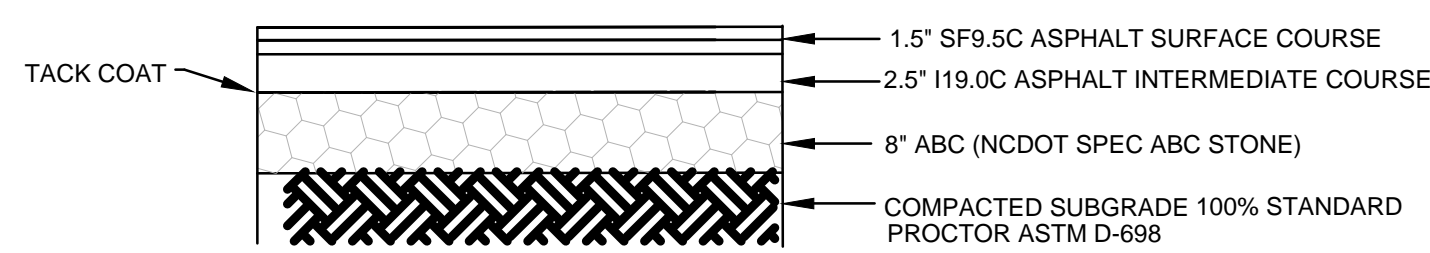
PINNACLE ARCHITECTURE PROFESSIONAL ASSOCIATION
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MATTHEWS, NORTH CAROLINA 28106
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708 GREEN FARM ROAD
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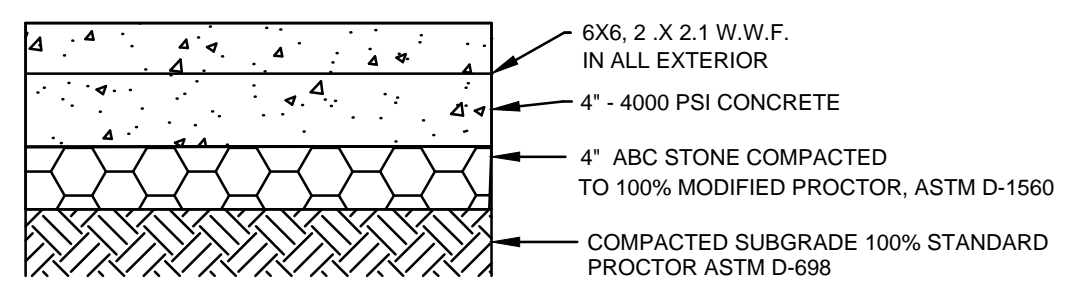
CONCORD FIRE STATION NO. 6
DAVID DISTRICT - NEW FACILITY
CONCORD, NC
DETAILS & SPECIFICATIONS



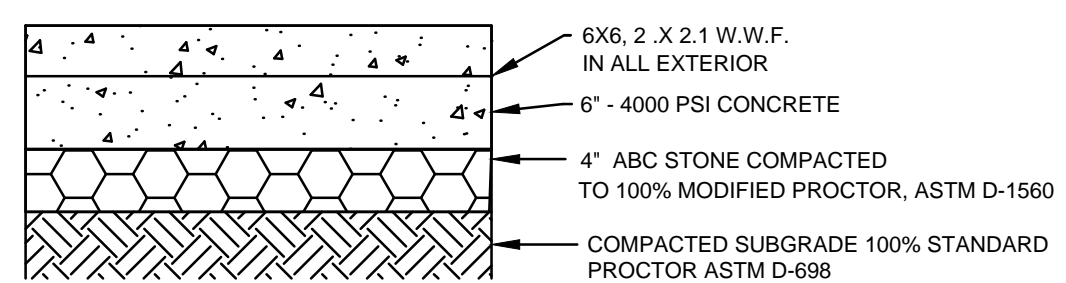
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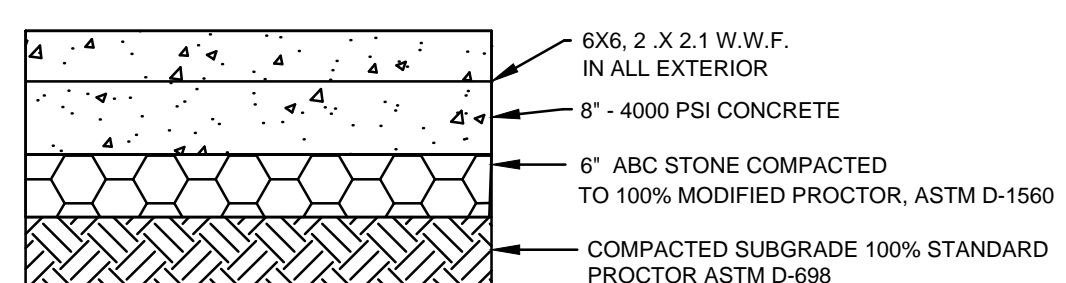
HEAVY DUTY ASPHALT



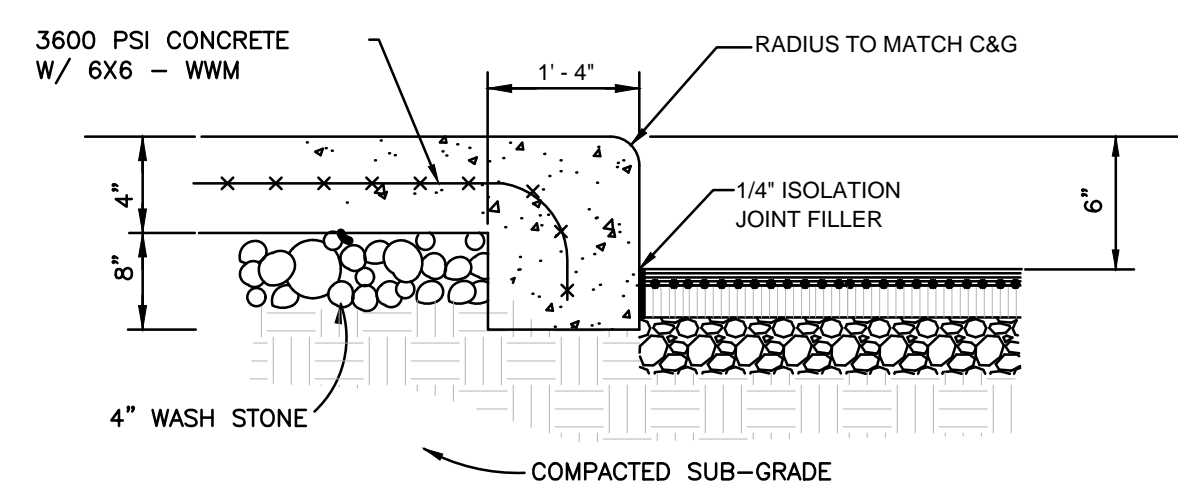
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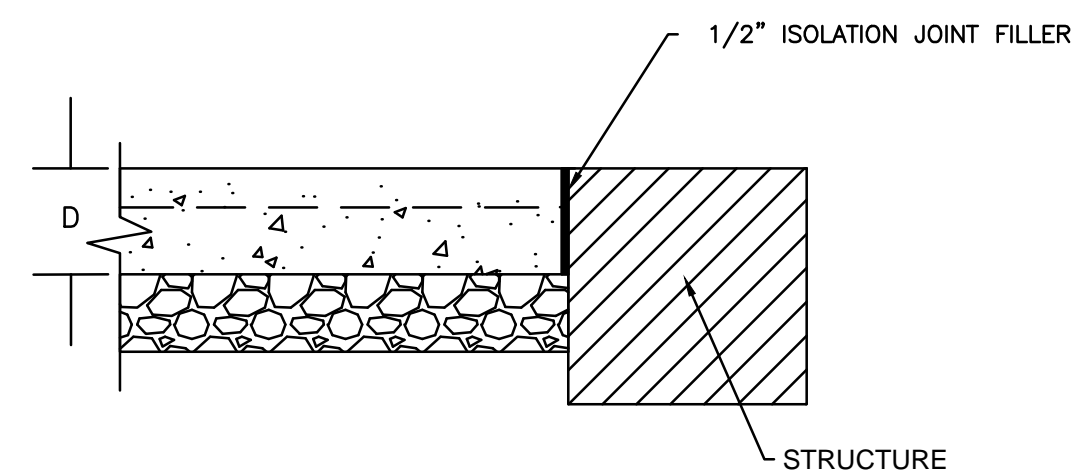
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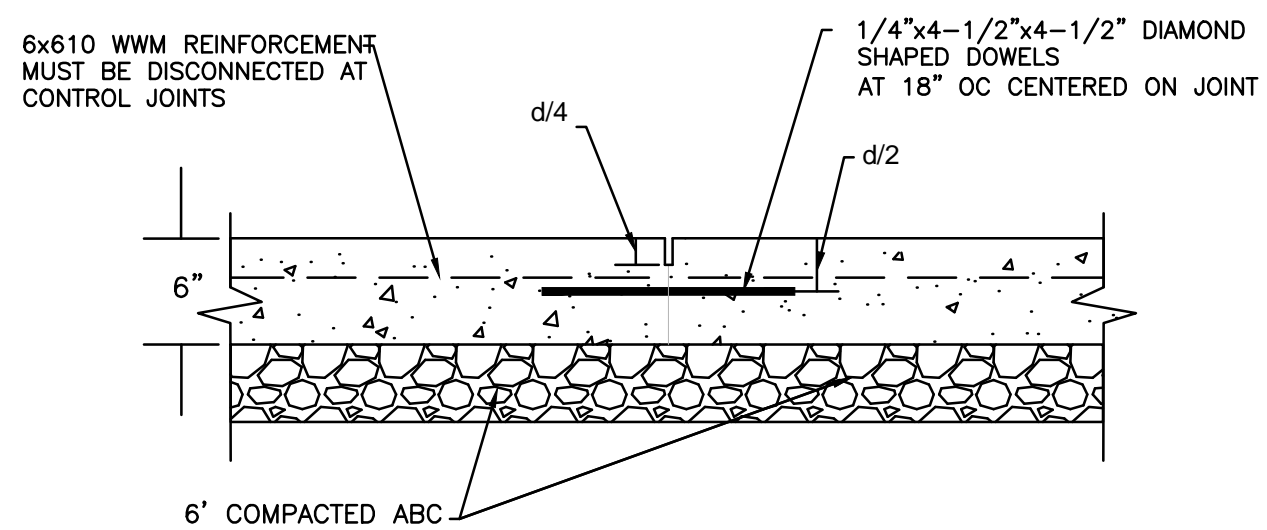
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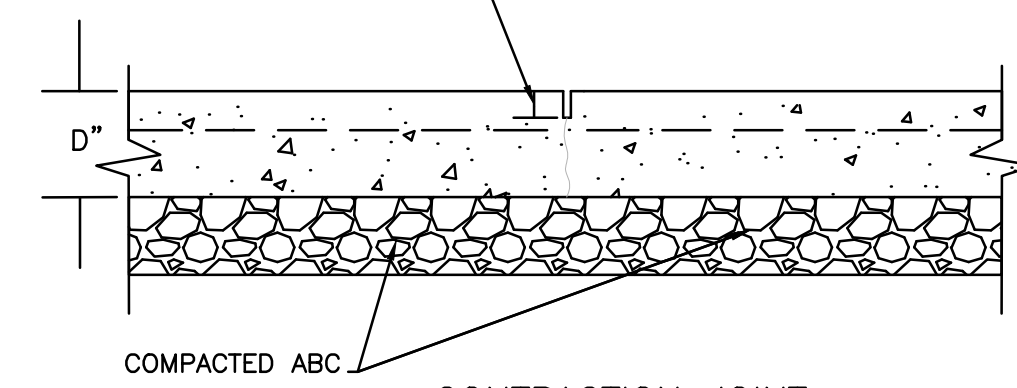
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ISOLATION JOINT



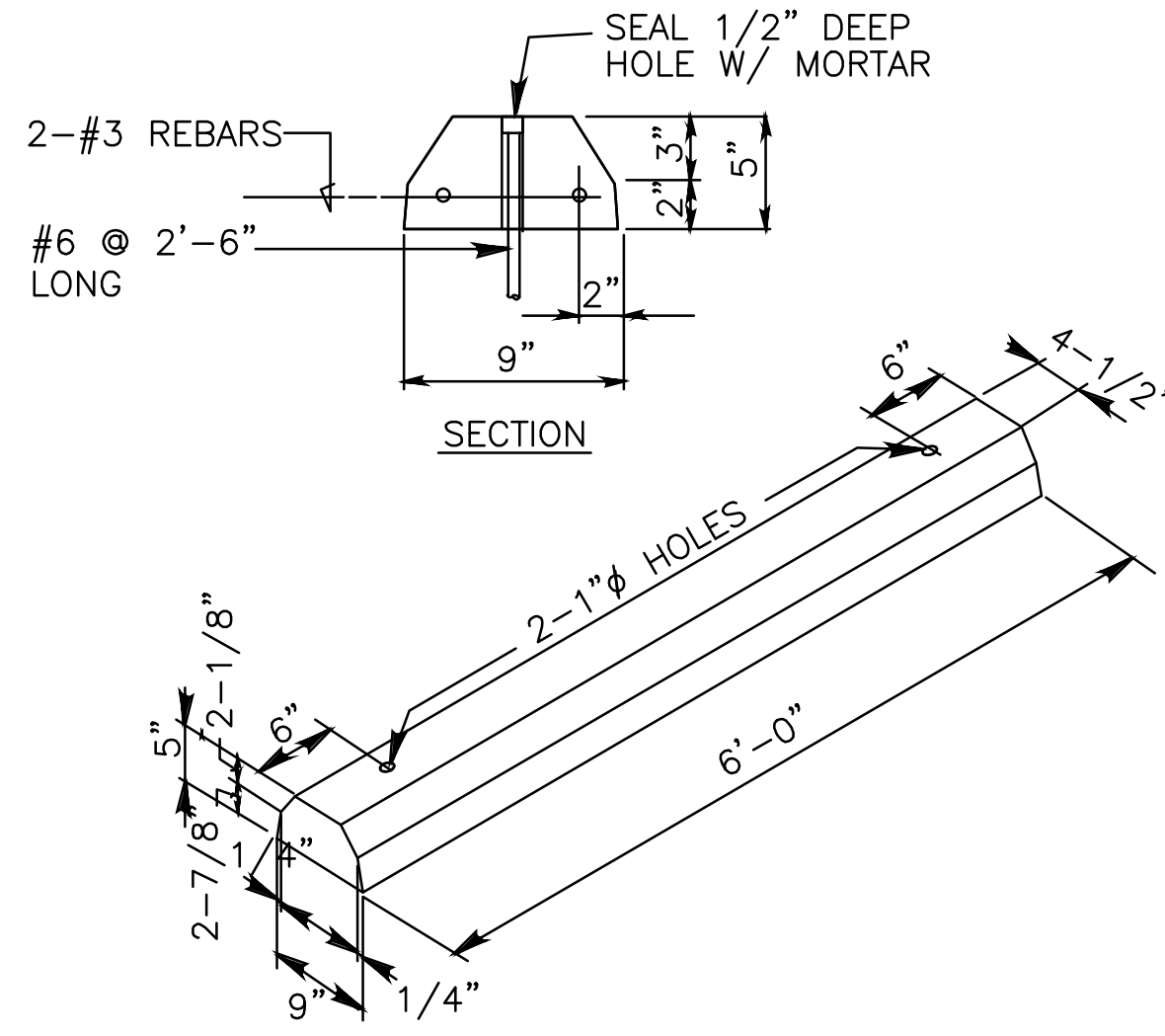
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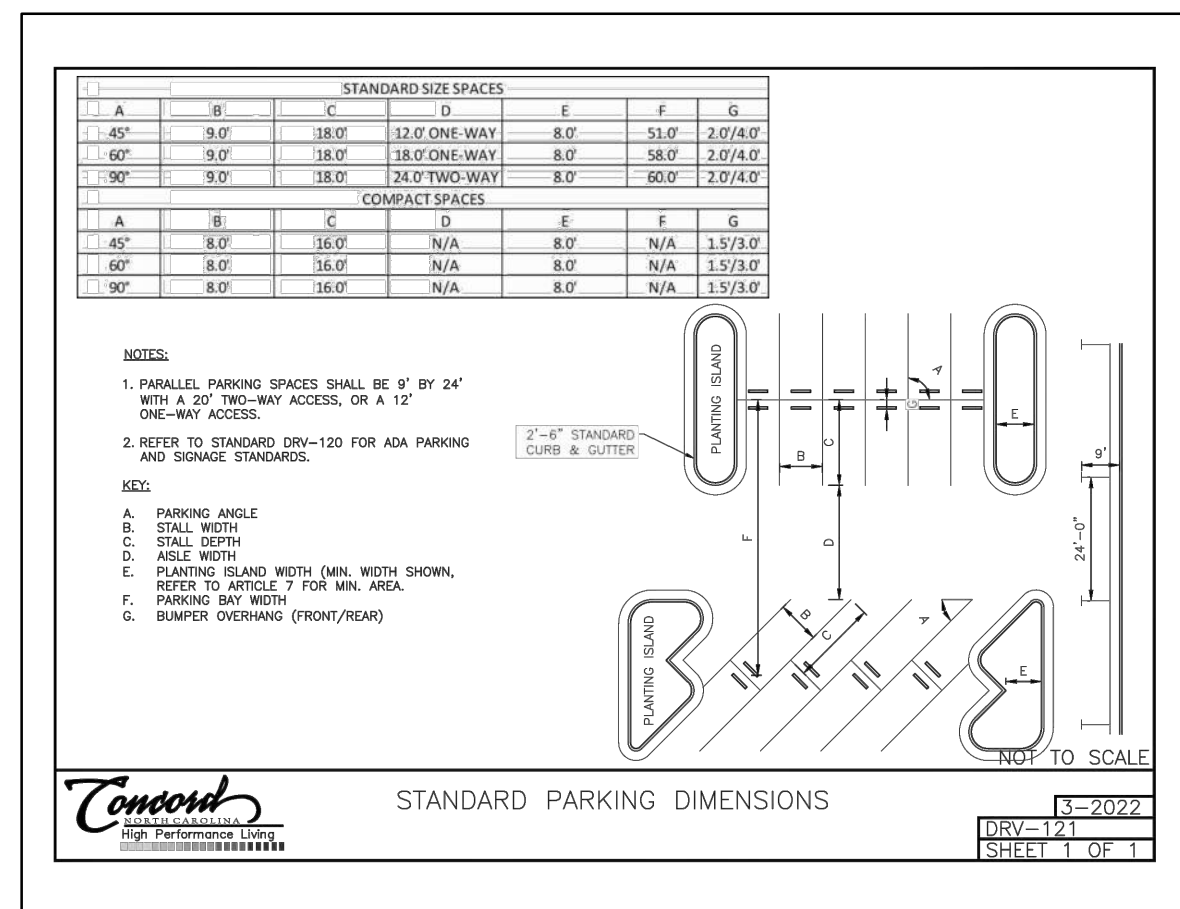
CONTRACTION JOINT

NOTE:
ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH NCDOT STANDARDS AND SPECIFICATIONS FOR ROADS AND STRUCTURES LATEST EDITION.

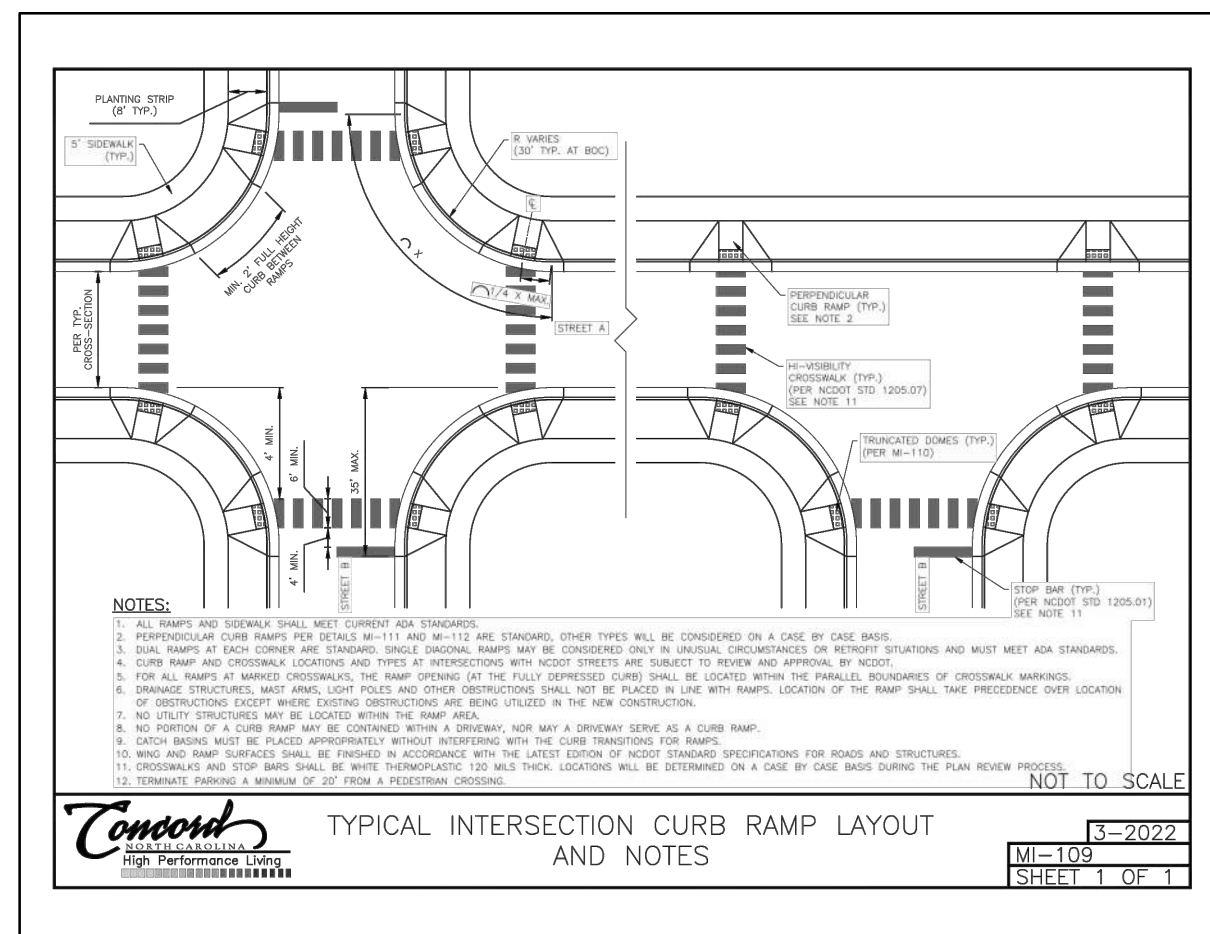
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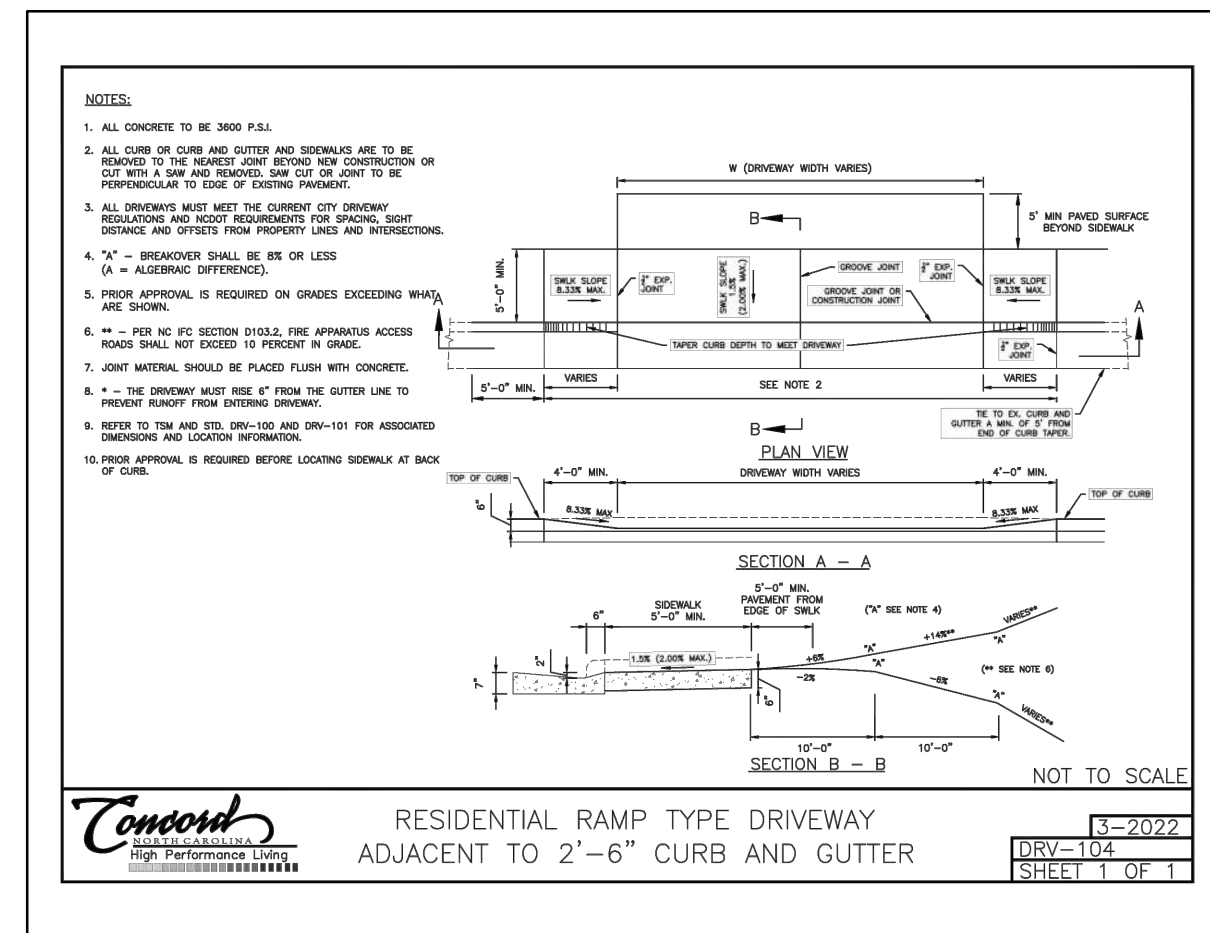
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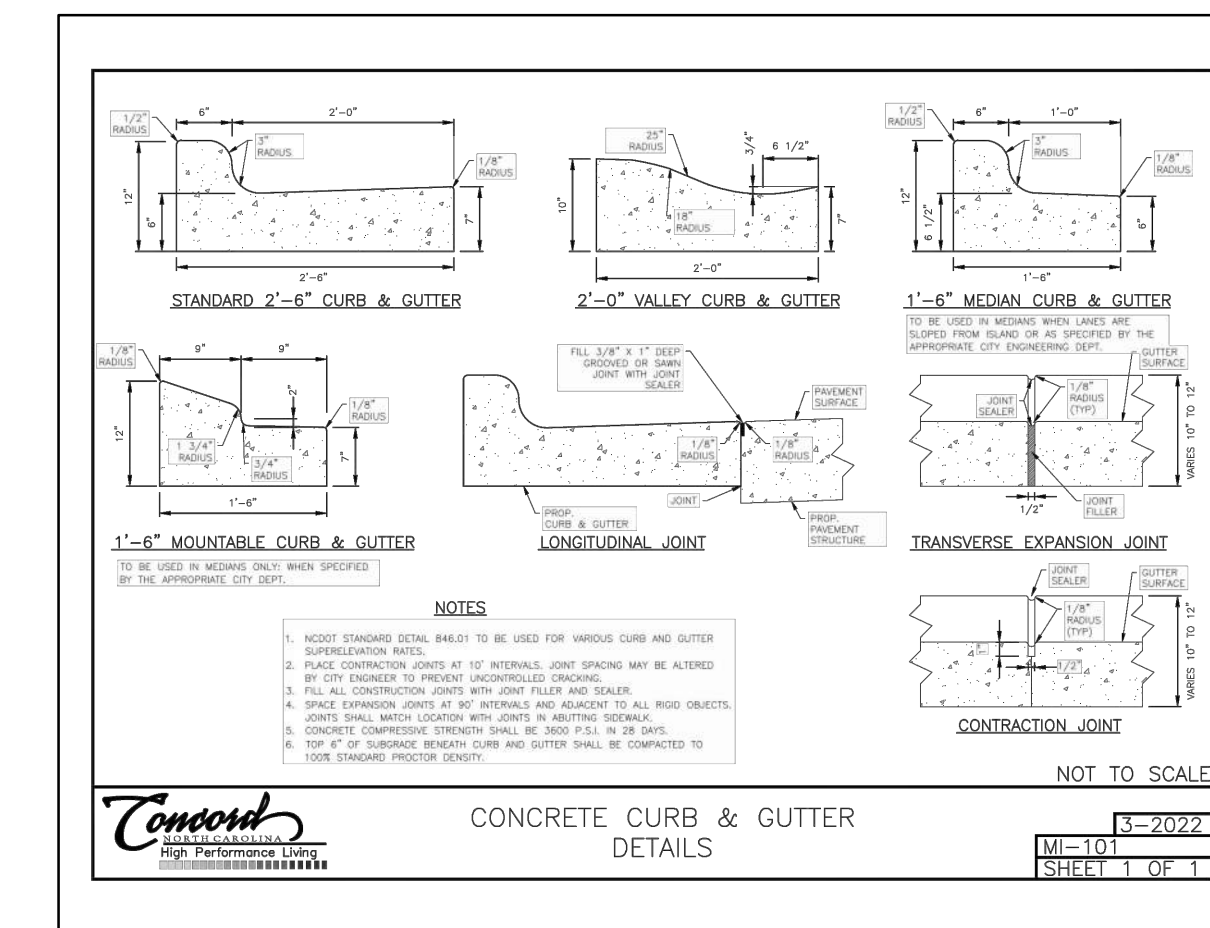
STANDARD PARKING DIMENSIONS



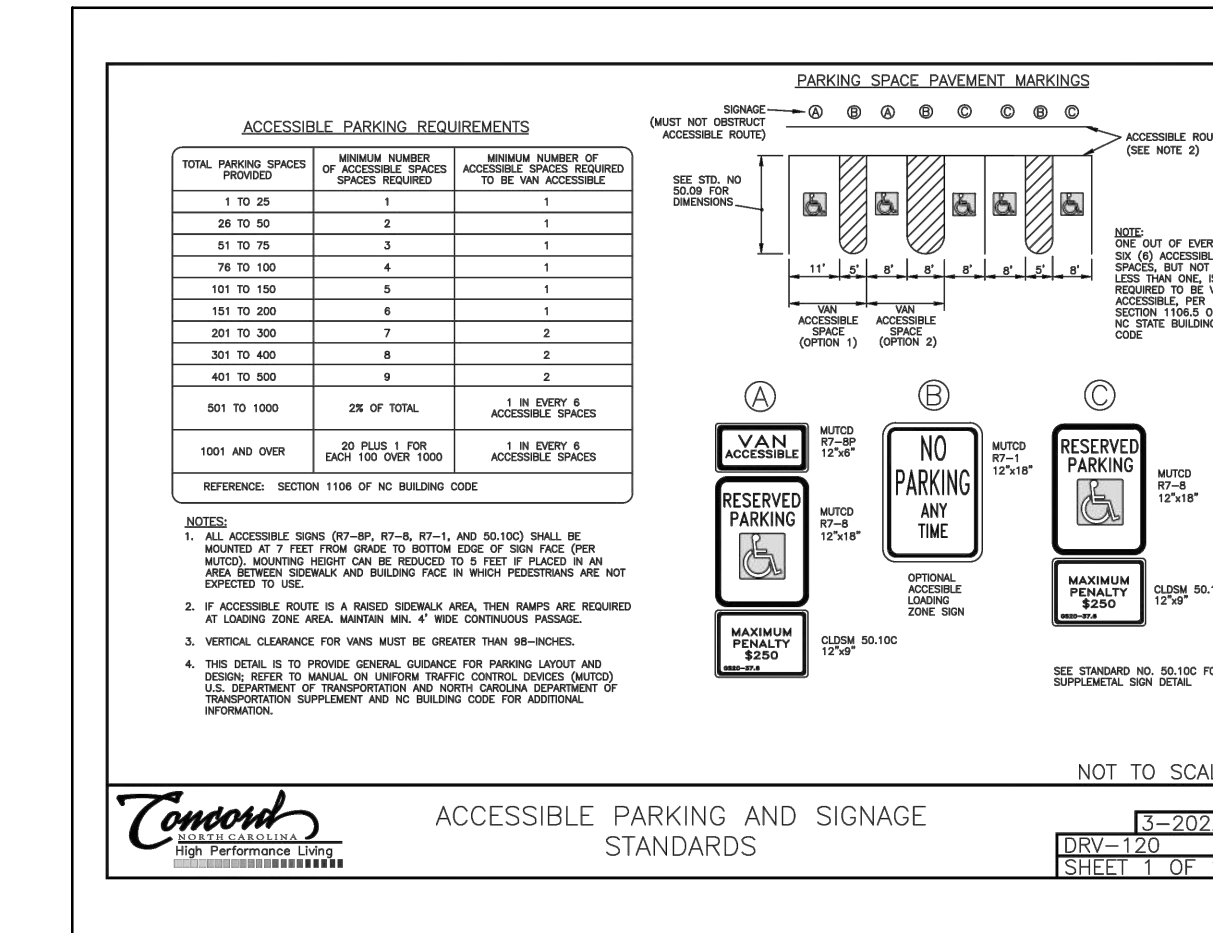
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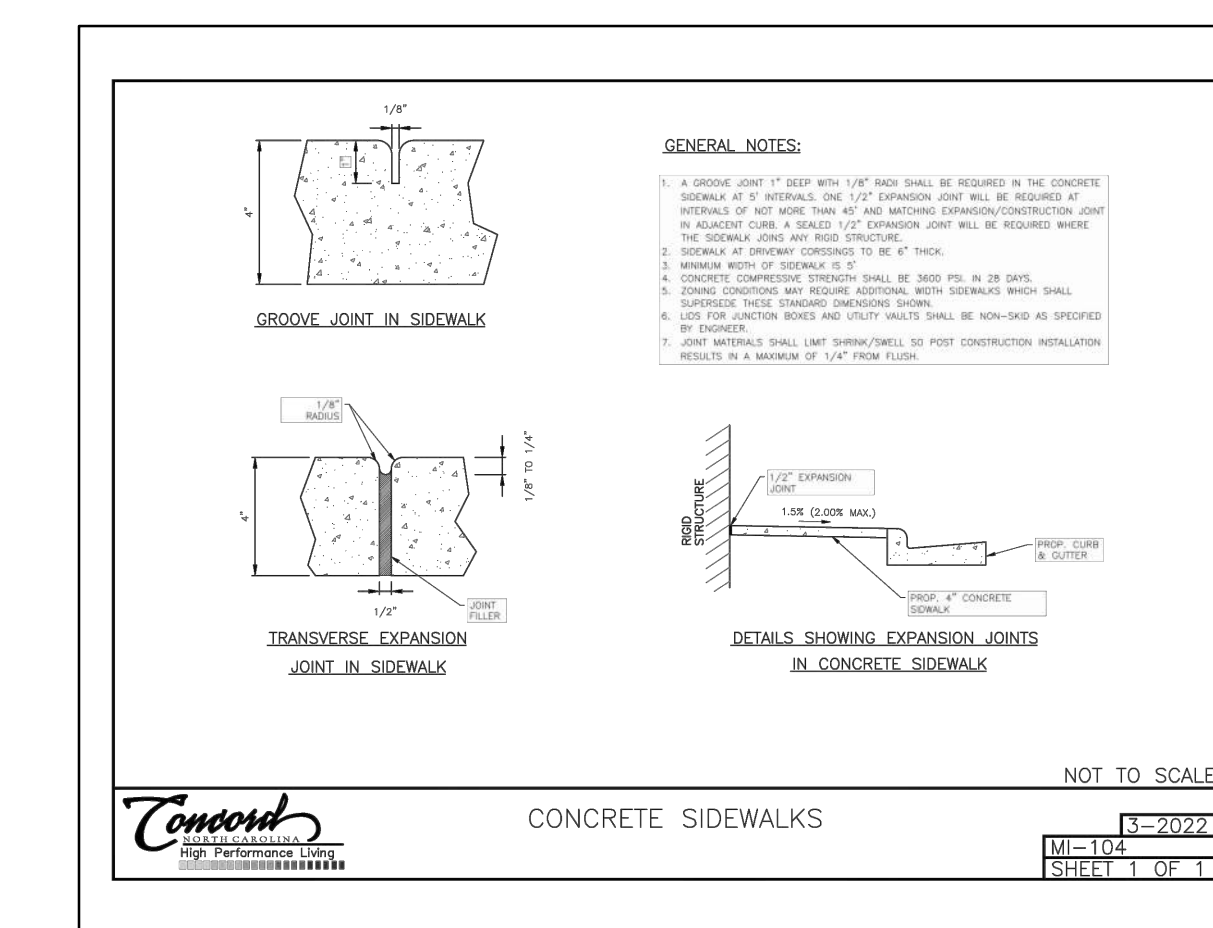
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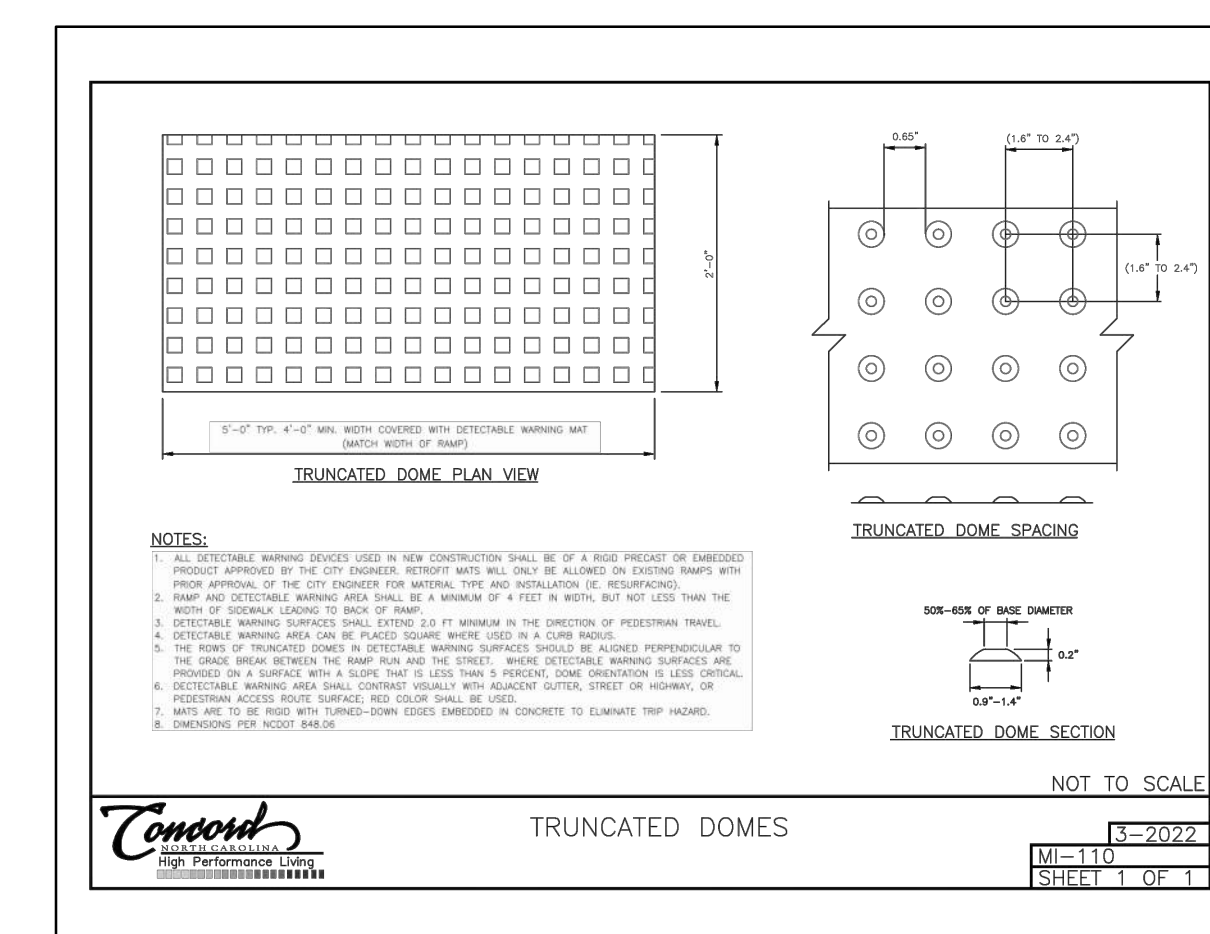
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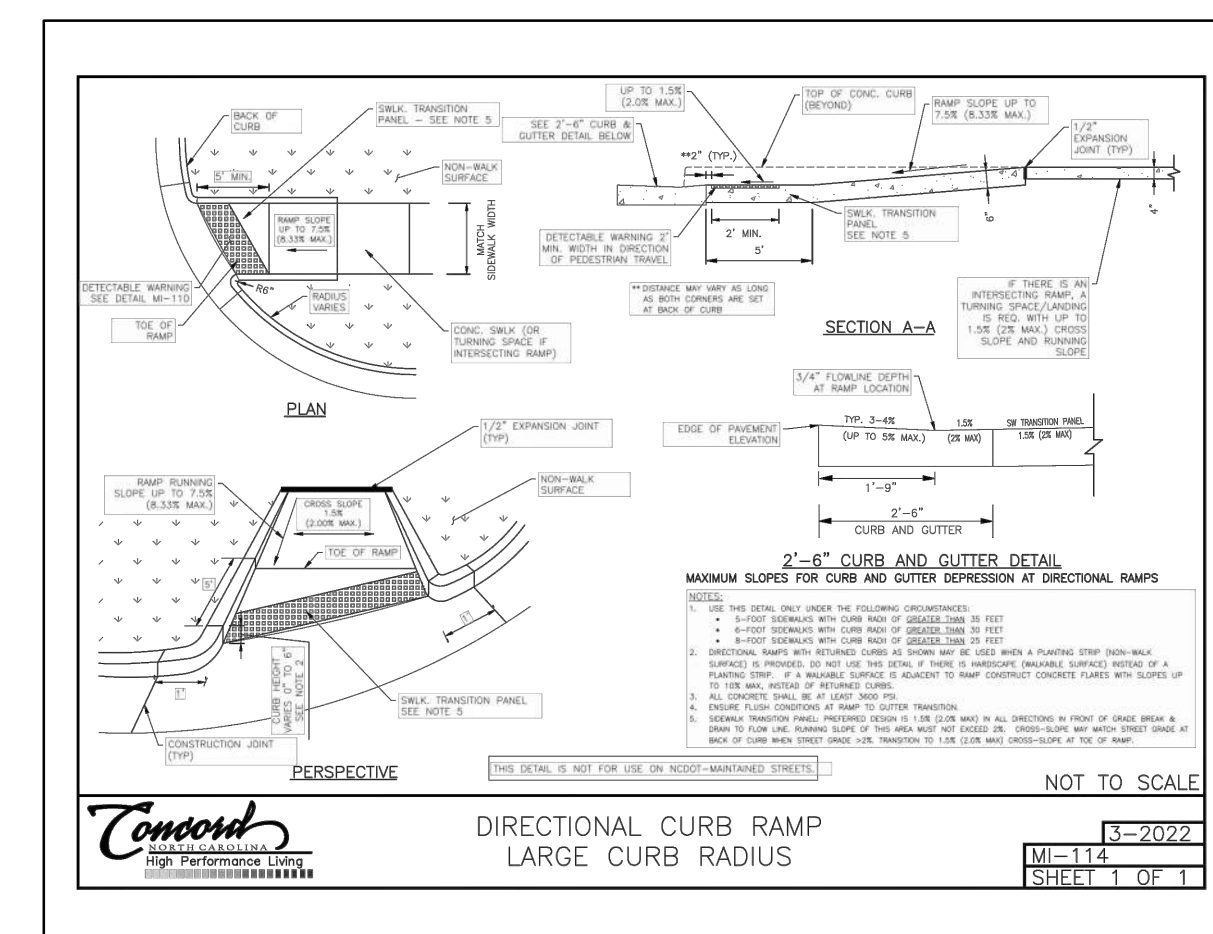
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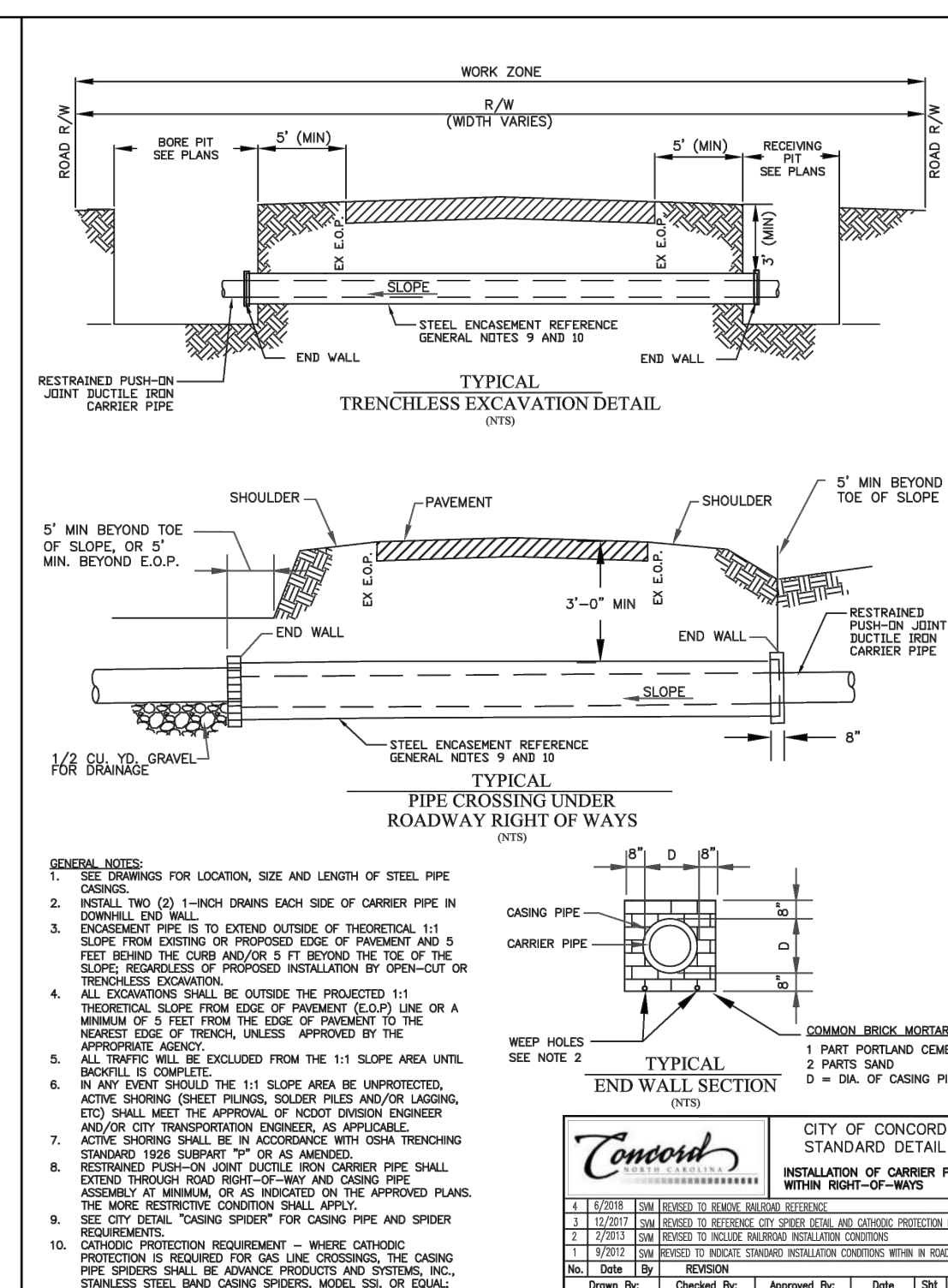
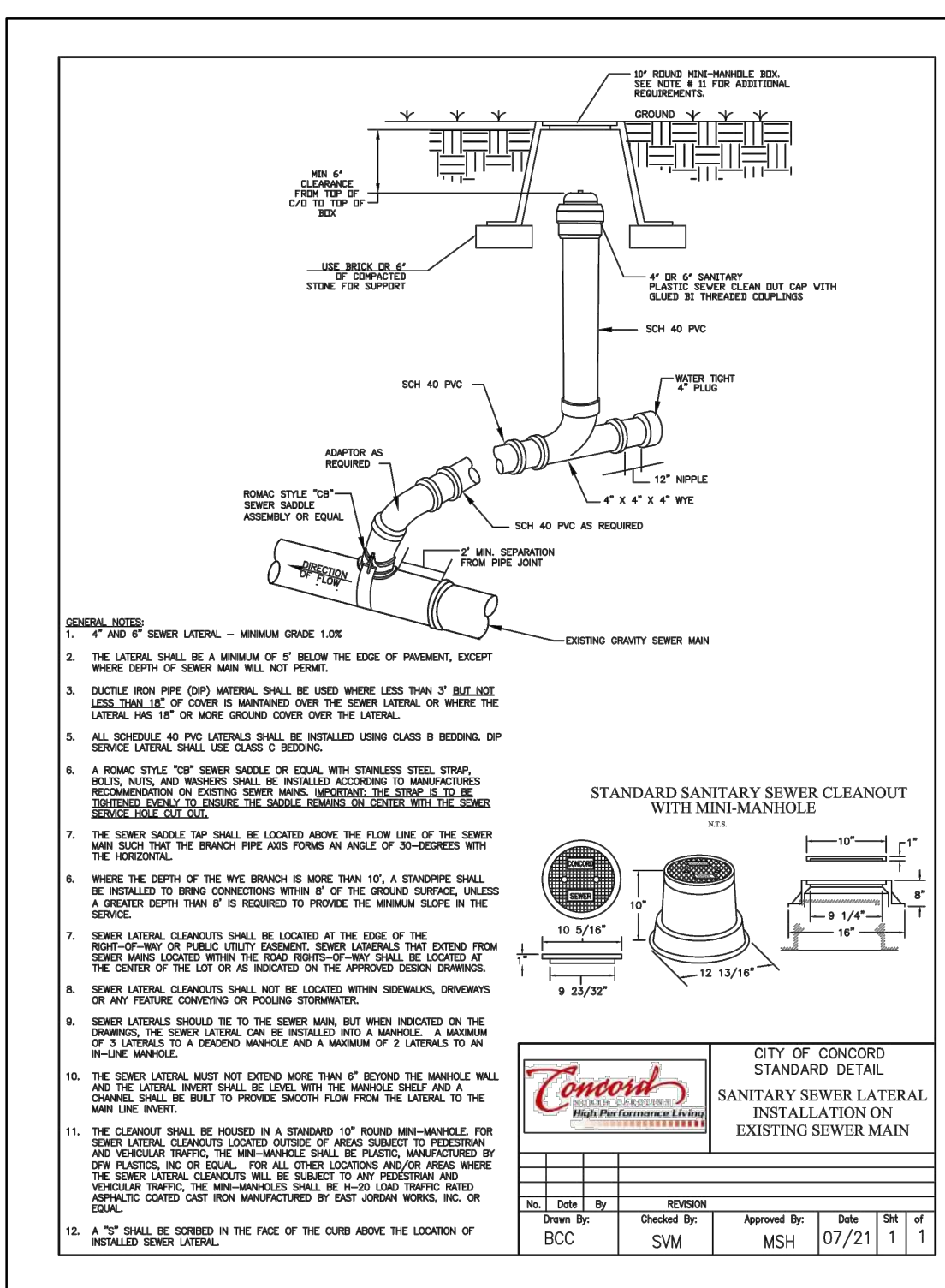
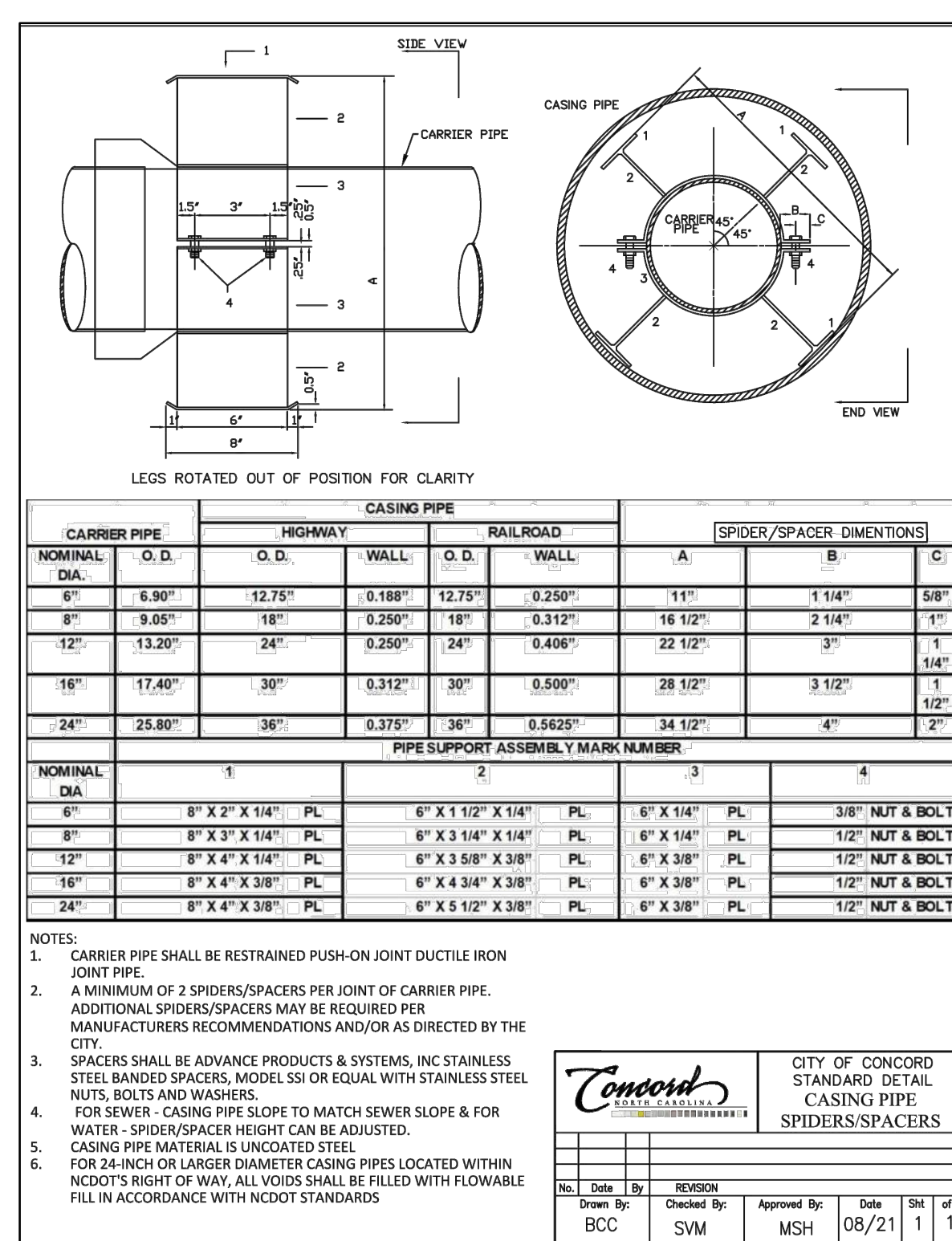
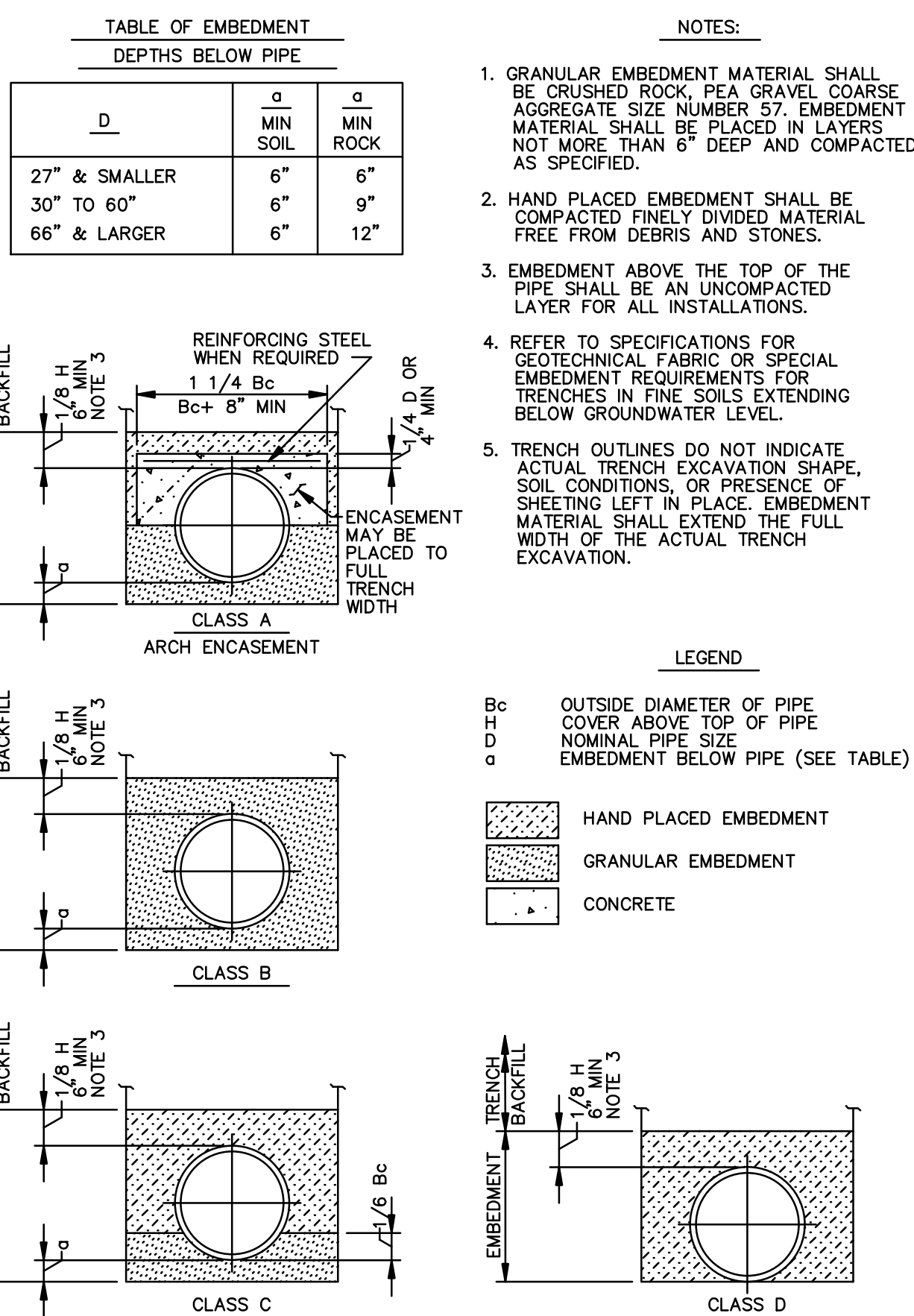
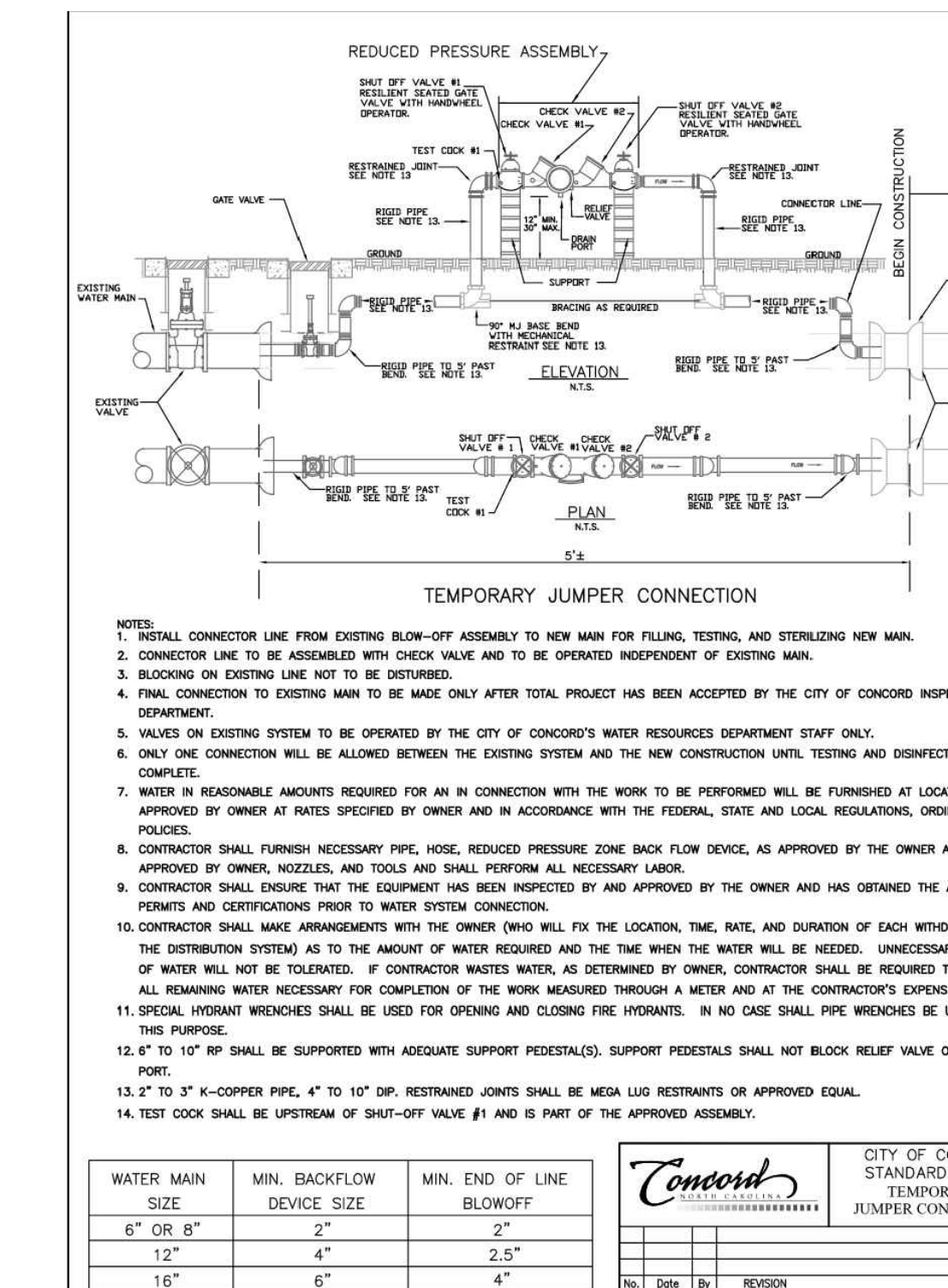
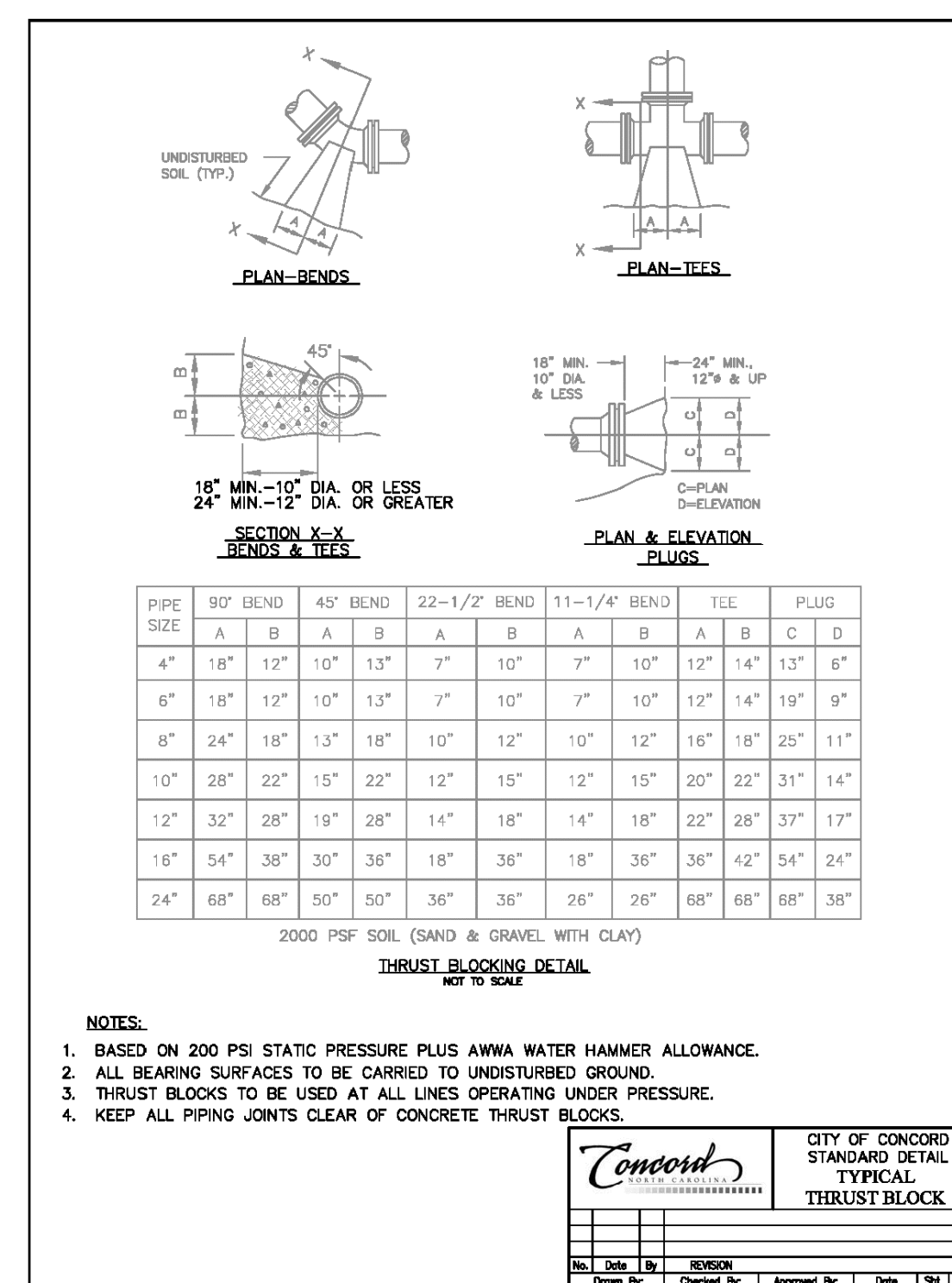
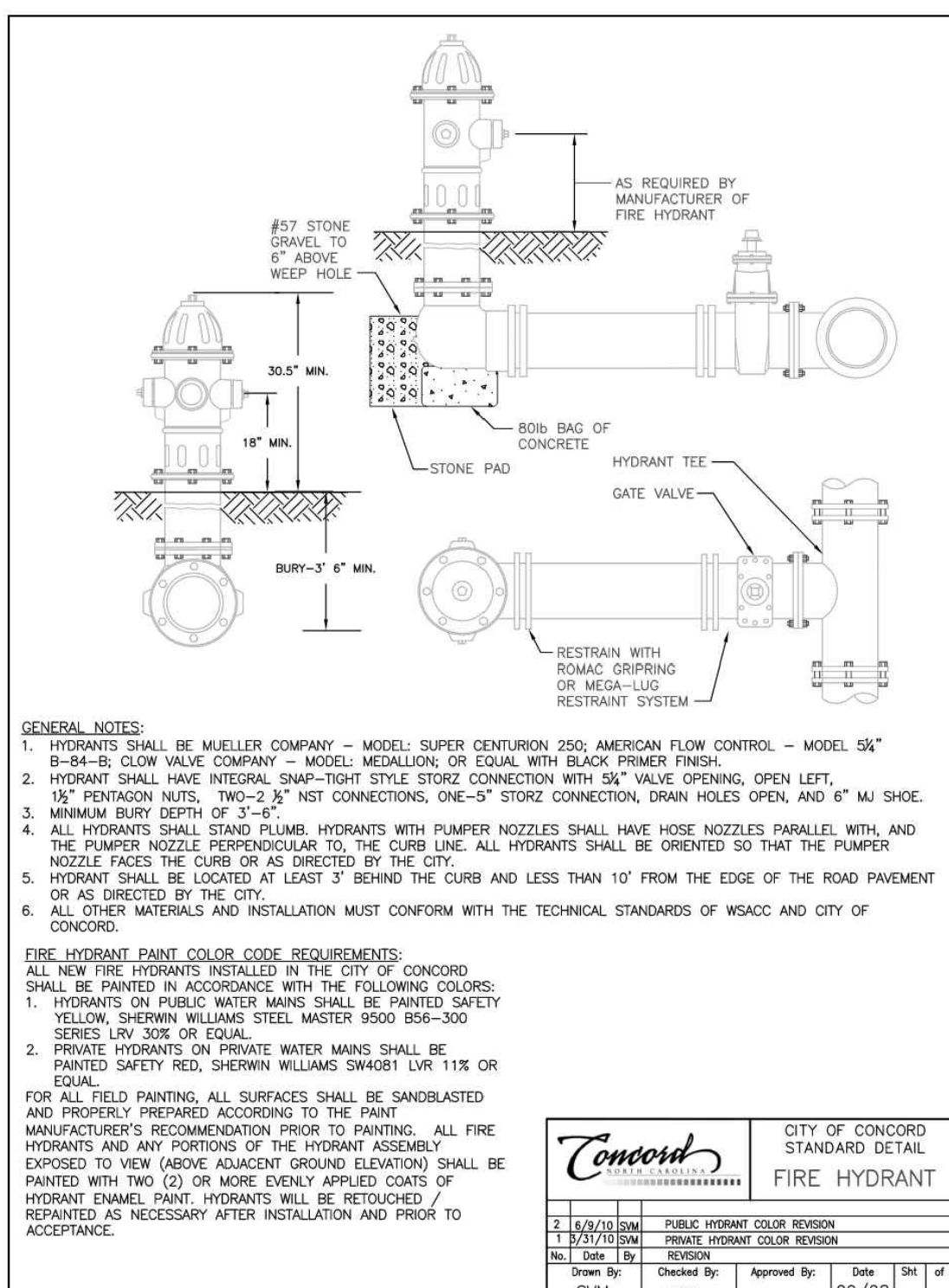
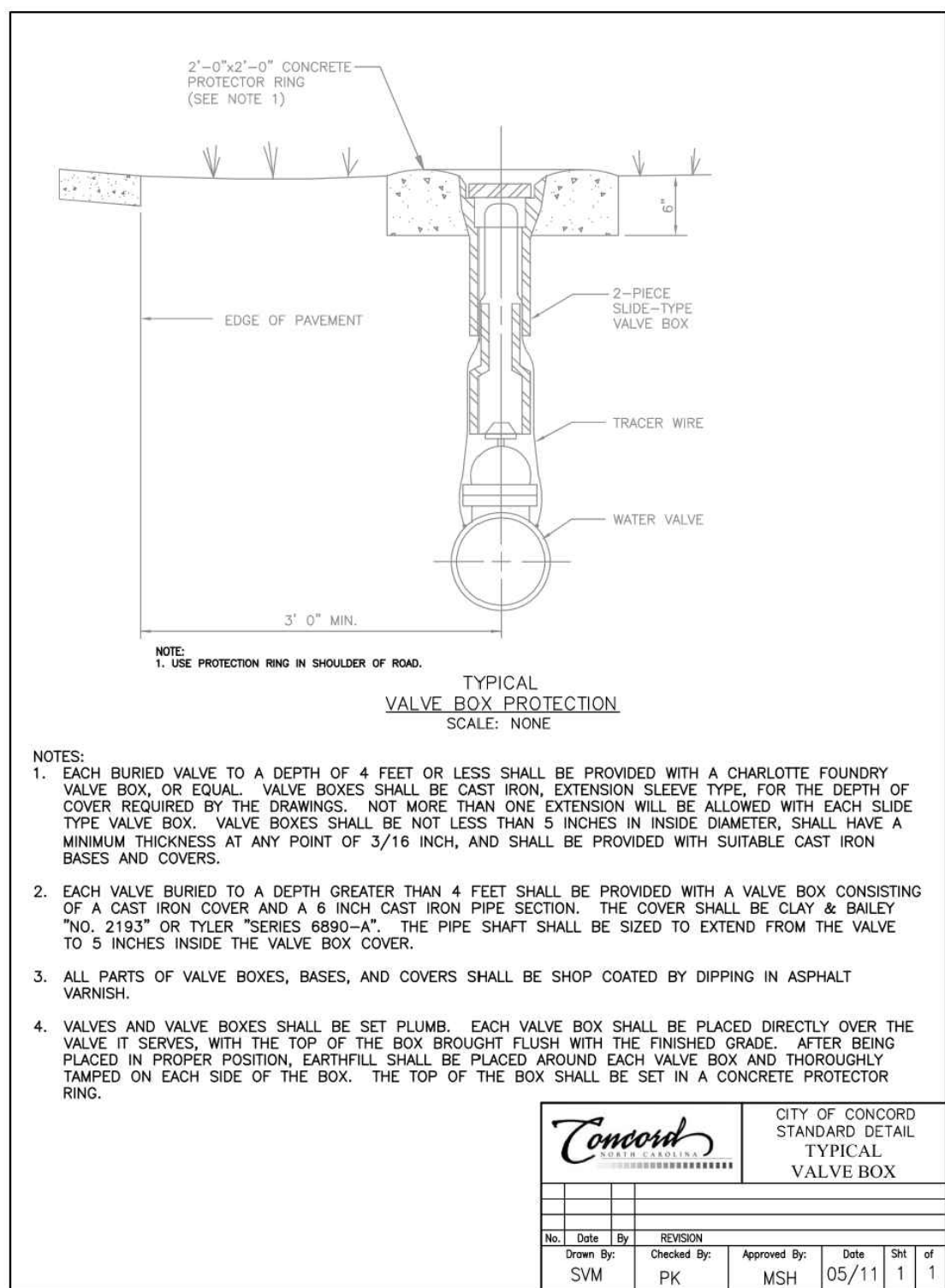
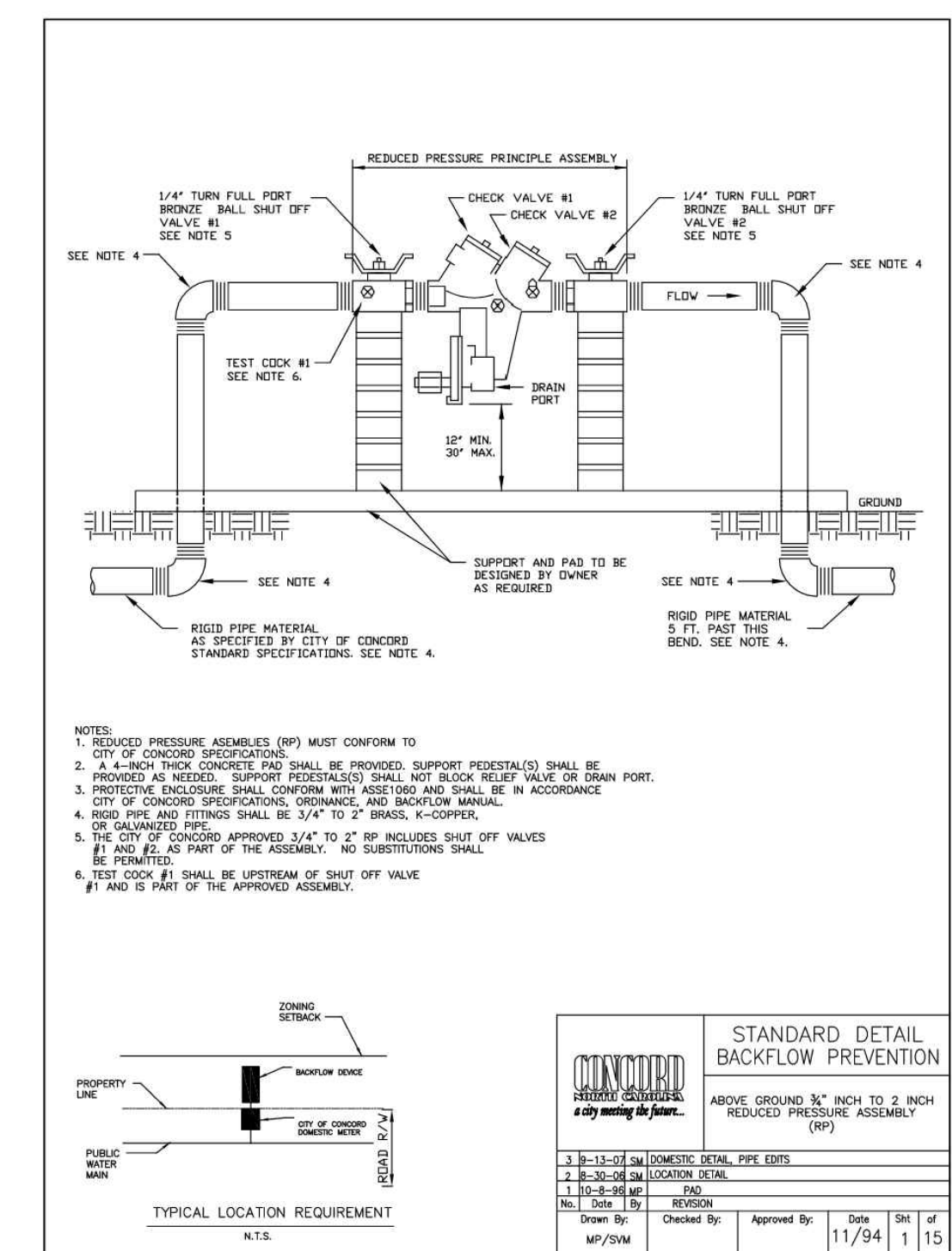
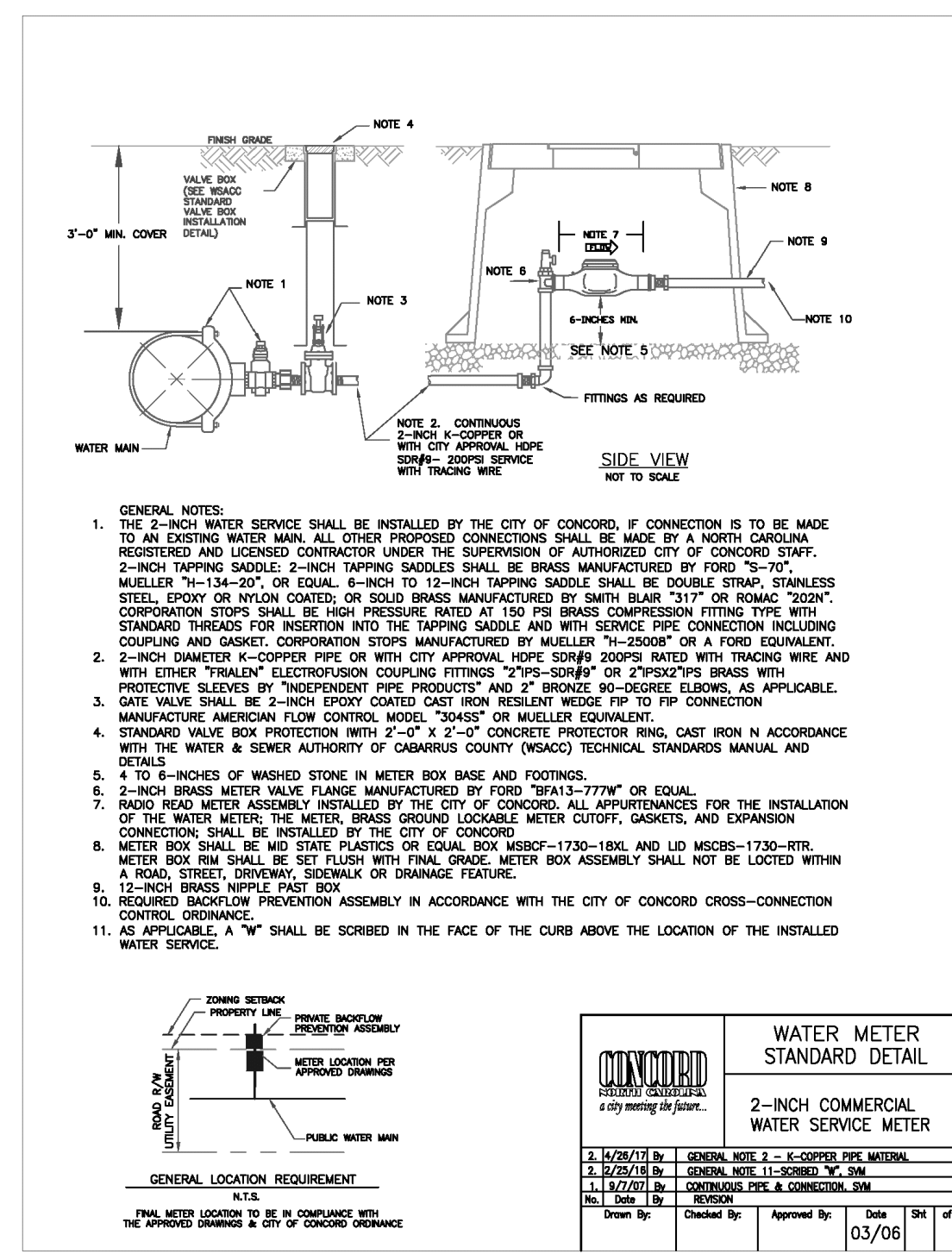
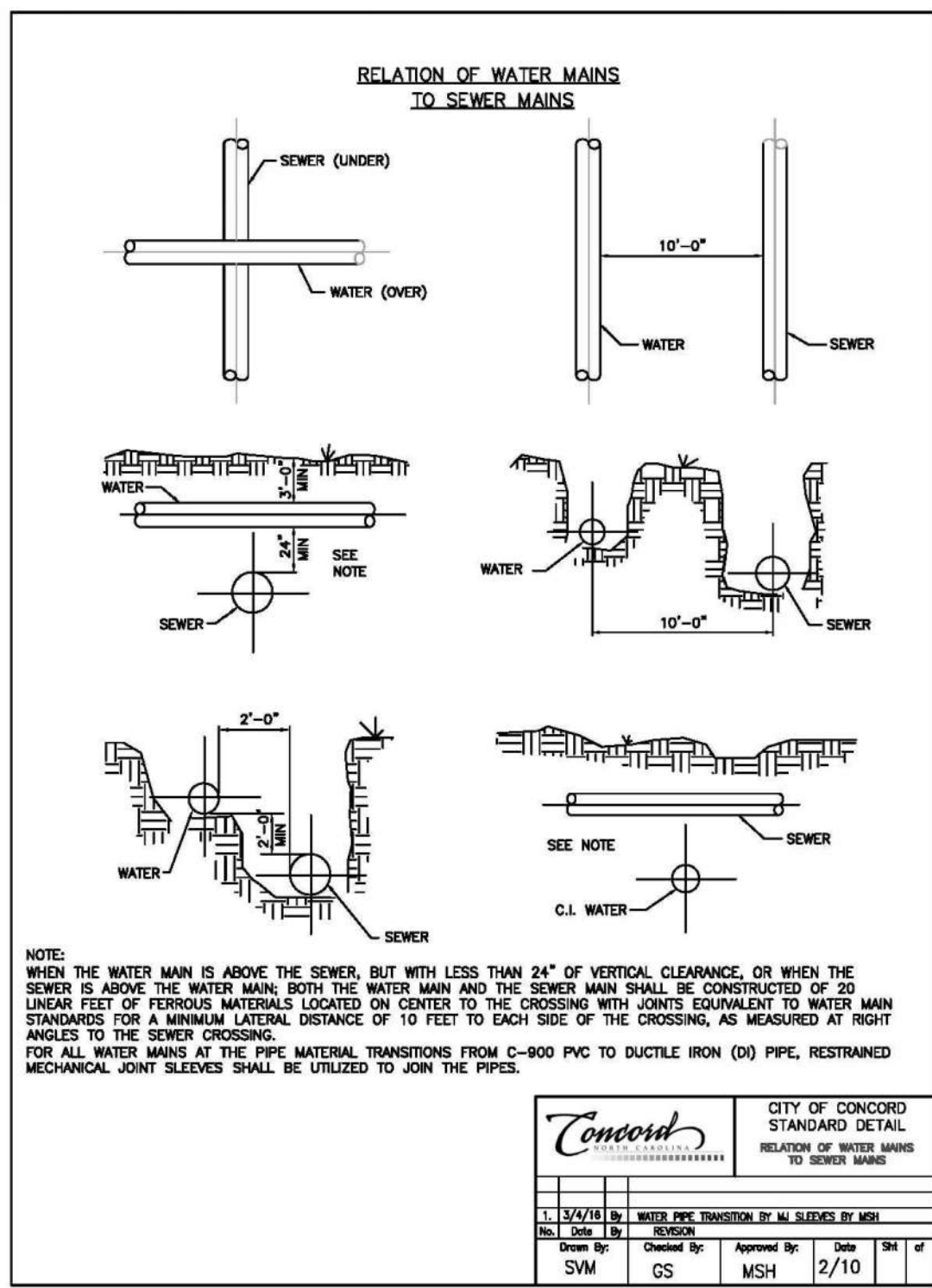
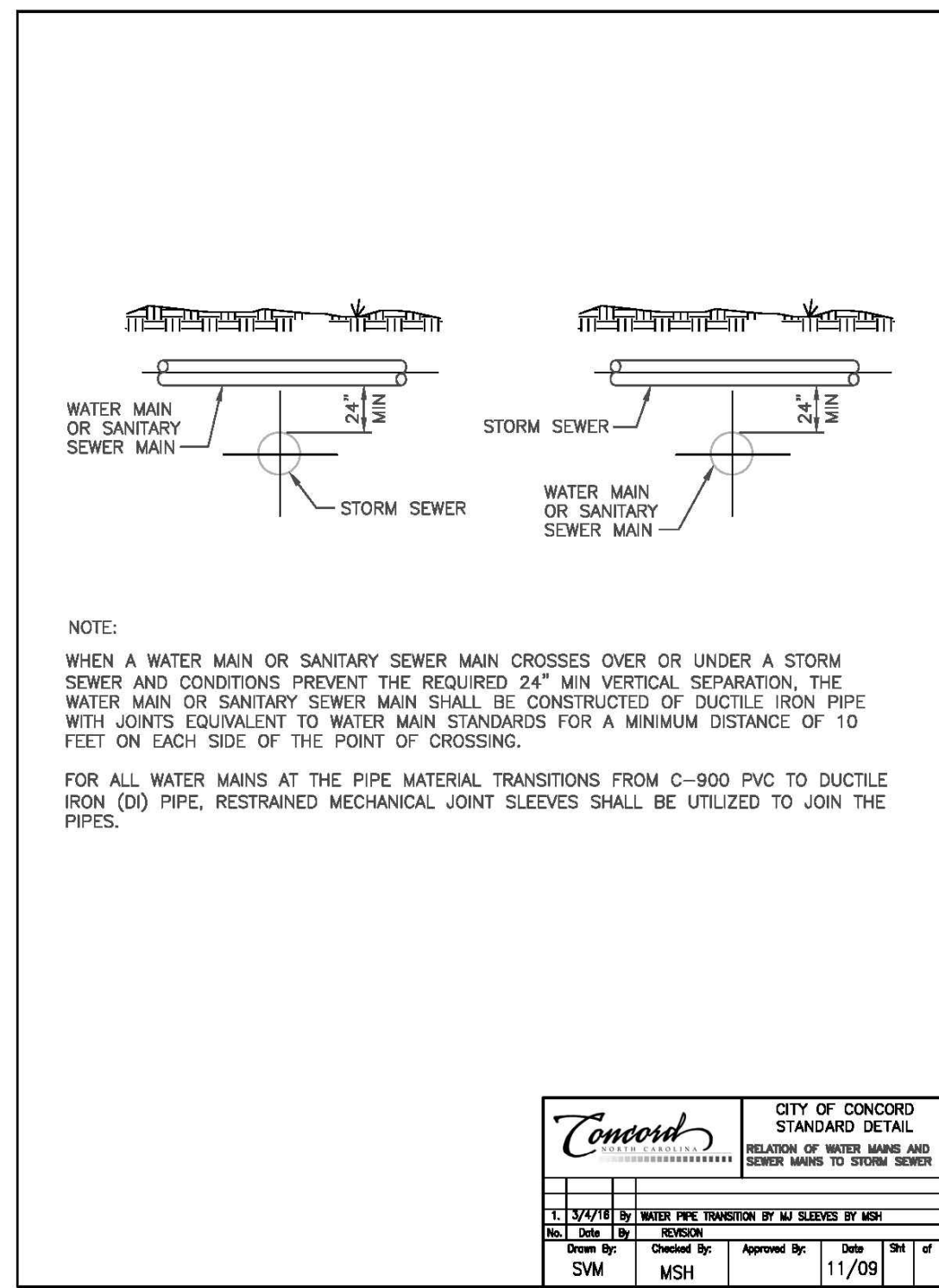
CONCRETE SIDEWALKS



TRUNCATED DOMES



DIRECTIONAL CURB RAMP LARGE CURB RADIUS



EMBEDMENTS FOR CONDUITS

EXCERPTS FROM THE CITY OF CONCORD'S U.D.O., ARTICLE 11, LANDSCAPING: 11.8.1. SIZE STANDARDS

THE MINIMUM ALLOWABLE PLANT FOR NEW INSTALLATIONS SHALL BE AS SET FORTH HEREIN, DUE TO THE VARIATIONS BETWEEN GENUS AND SPECIES, THE CALIPER OR HEIGHT NECESSARY FOR NEWLY INSTALLED PLANT MATERIALS MAY VARY. AS A GENERAL RULE, THE CALIPER OR DIAMETER OF TREES SHALL BE MEASURED 6 INCHES FROM THE GROUND LEVEL UP TO A 4 INCH CALIPER DIAMETER AND AT 12 INCHES FOR A 4 INCH CALIPER DIAMETER OR GREATER. THE HEIGHT OF SHRUBS SHALL BE A MINIMUM OF 24 INCHES AS MEASURED AT GROUND LEVEL TO THE TOP OF THE DENSEST PORTION OF THE TOP OF THE SHRUB OR HEDGE.

A. SHADE TREES
SHADE TREES SHALL MEASURE A MINIMUM 2 TO 2.5 INCH IN CALIPER AND 10 TO 12 FEET IN HEIGHT AT THE TIME OF PLANTING.

B. ORNAMENTAL TREES
ORNAMENTAL TREES SHALL MEASURE A MINIMUM 1.5 TO 2 INCHES IN CALIPER FOR SINGLE-STEM TREES OR 1 TO 1.5 INCHES IN CALIPER FOR MULTI-STEM TREES, AND 6 TO 8 FEET IN HEIGHT.

C. LARGE SHRUBS
LARGE SHRUBS, NORMALLY PLANTED FOR SCREENING, SHALL MEASURE A MINIMUM OF 3 TO 3 1/2 FEET IN HEIGHT AT THE TIME OF PLANTING. SHRUBS PLANTED FOR SCREENING PURPOSES, SHALL FORM THE REQUIRED DENSITY TO BLOCK VISIBILITY WITHIN THREE (3) YEARS FROM THE DATE OF INSTALLATION.

D. SMALL SHRUBS
SMALL SHRUBS SHALL MEASURE A MINIMUM OF 18 TO 24 INCHES IN SPREAD AND/OR HEIGHT AT THE TIME OF PLANTING. A MIX OF DECIDUOUS AND EVERGREEN SHRUBS IS ENCOURAGED IN ORDER TO OBTAIN A VARIETY OF COLOR AND TEXTURE THROUGHOUT THE YEAR.

E. GROUND COVER (ORGANIC)
ORGANIC GROUND COVERS SHALL PROVIDE 100% COVERAGE ON THE GROUND WITHIN THREE (3) YEARS FROM THE DATE OF INSTALLATION, EXCEPT FOR SEEDING, GRASS OR TURF SHALL PROVIDE 100% COVERAGE UPON INSTALLATION. ORGANIC MULCH MAY BE USED AROUND PLANTINGS TO MAINTAIN SOIL MOISTURE AND PREVENT THE GROWTH OF WEEDS.

F. GROUND COVER (INORGANIC)
INORGANIC GROUND COVERS CONSISTING OF RIVER ROCK OR SIMILAR MATERIALS MAY BE USED PROVIDED THEY DO NOT EXCEED 20% COVERAGE OF THE REQUIRED LANDSCAPE PLANTING AREA.

11.8.2. SELECTION OF PLANT MATERIALS
ALL PLANT MATERIAL EXCEPT GROUND COVERS SHALL BE SELECTED FROM TABLE 9.1-1-- ACCEPTABLE PLANT SPECIES. CONSIDERATION SHALL BE GIVEN TO THE ENVIRONMENTAL CONDITIONS OF THE SITE, SUCH AS SOIL, TOPOGRAPHY, CLIMATE, MICROCLIMATE, PATTERN OF SUN MOVEMENT, PREVAILING WINDS AND PRECIPITATION, AND AIR MOVEMENT TO ENSURE THAT PLANT MATERIALS WILL BE ESTABLISHED SUCCESSFULLY. TREE SELECTION FOR STREET YARDS OR OTHER LOCATIONS WITHIN UTILITY RIGHTS-OF-WAYS SHALL CONSIDER THE PRESENCE OR PLANNED ADDITION OF OVERHEAD UTILITY LINES. SUCH TREES SHALL BE SMALL AND MEDIUM TREES THAT ARE PEST- AND DISEASE-RESISTANT AND ARE SLOW GROWING.

A. SUBSTITUTION OF PLANT MATERIALS
THE ADMINISTRATOR SHALL HAVE THE AUTHORITY TO APPROVE THE INSTALLATION OF COMPARABLE SUBSTITUTION PLANT MATERIALS TO SATISFY THE REQUIREMENTS OF THE APPROVED LANDSCAPE PLAN WHEN THE APPROVED PLANTS AND LANDSCAPE MATERIALS ARE NOT AVAILABLE AT THE TIME THAT INSTALLATIONS ARE TO OCCUR, OR WHEN OTHER UNFORESEEN CONDITIONS PREVENT THE USE OF THE EXACT MATERIALS SHOWN ON THE APPROVED LANDSCAPE PLAN. SIGNIFICANT CHANGES THAT REQUIRE THE REPLACEMENT AND RELOCATION OF MORE THAN 25% OF THE PLANT MATERIALS SHALL REQUIRE A NEW LANDSCAPE PLAN AND APPROVAL THROUGH THE PLAN REVIEW PROCESS.

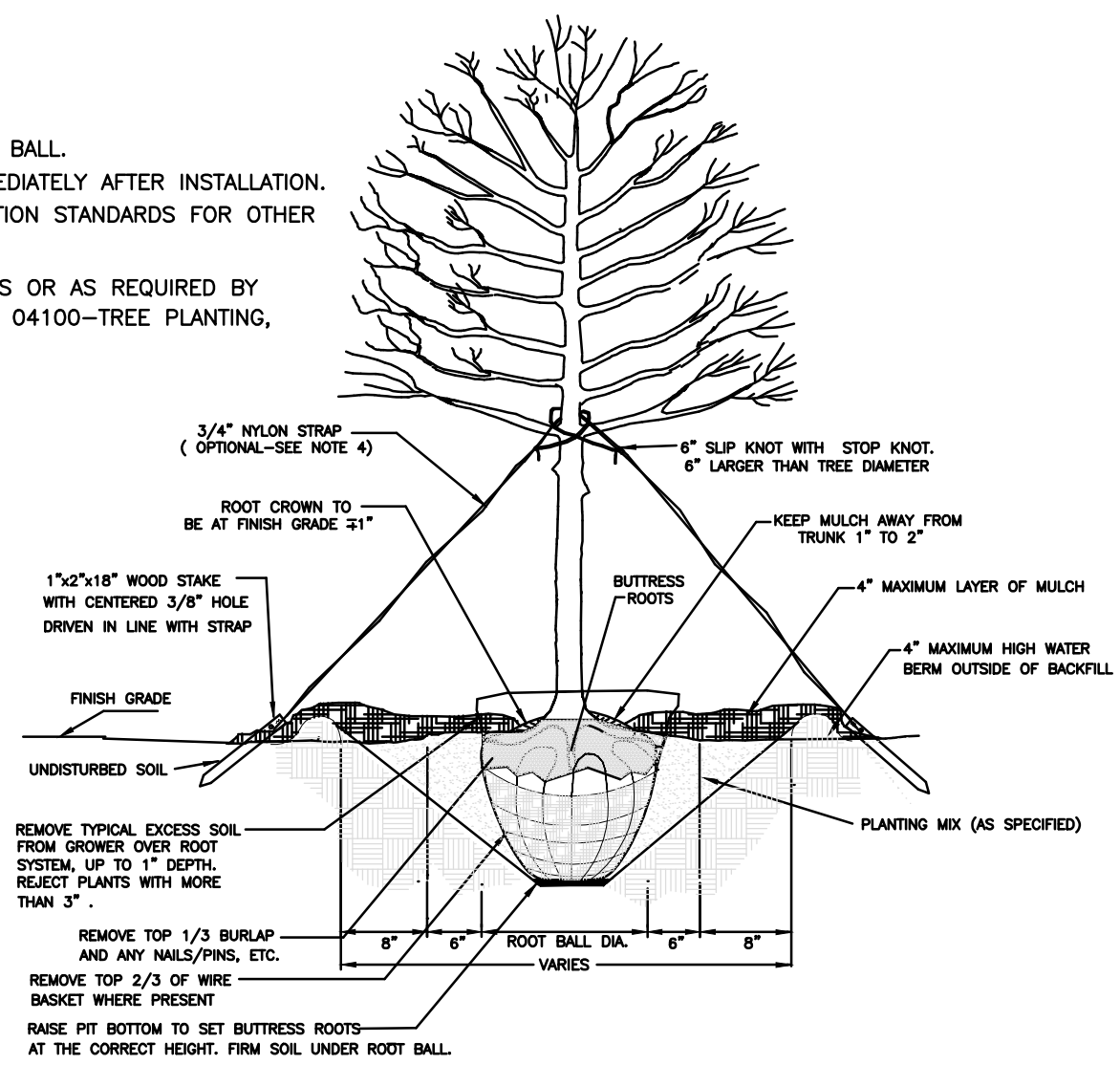
B. MIX OF GENUS AND SPECIES ENCOURAGED
EXCEPT FOR THE STREET YARDS (11.7), A MIX OF GENUS AND SPECIES OF TREES, SHRUBS, GROUND COVERING, PERENNIALS AND ANNUALS IS ENCOURAGED IN ORDER TO AVOID POTENTIAL LOSS DUE TO INFECTIOUS DISEASES, BLIGHT OR INSECT INFESTATION. STREET YARD TREES SHOULD RETAIN A REASONABLY UNIFORM PATTERN ALONG BOTH SIDES OF A STREET WITHIN THE SAME BLOCK OR CORRIDOR.

1 TREE PLANTING NOTES
NTS

Concord FS#6 Plant List					
Zoning L1					
Key	Common Name	Botanical Name	Min. Size	Quantity	Native
BUFFERYARD					
Not Applicable					
BUILDING YARDS					
FP	Forest Pansy Redbud	Cercis canadensis 'Forest Pansy'	7 gal. container min.	4	YES
BCD	Blue Cascade® Evergreen Daylily	Daylily 'PHDST-11-PP24-409'	3 gal. container	12	NO
PD	Purple Daydream® Dwarf Lonicera	Lonicera chrysea 'PILCUE-PP25471'	3 gal. container	36	NO
AFZ	Autumn Fire Azalea	Rhododendron 'Robles' PP28279	3 gal. container	14	NO
RA	Radiance Abelia	Abelia x grandiflora 'Radiance'	3 gal. container	5	YES
PARKING LOT YARD & STREET YARD					
RA	Radiance Abelia	Abelia x grandiflora 'Radiance'	3 gal. container	19	YES
CJ	Benjamin Franklin Japanese-cedar	Cryptomeria japonica 'Benjamin Franklin'	2'-2.5' cal. / 8-10' ht. / 4'-5' spread	4	NO
NO	Nuttall Oak	Quercus nuttallii	2.5'-3.0' cal. / 10-12' ht. / 5'-6' spread	4	YES
AGS	Autumn Gold Ginkgo	Ginkgo biloba 'Autumn Gold'	2'-2.5' cal. / 8-10' ht. / 4'-5' spread	7	NO
CALCULATIONS					
Buffer Yard					
Not applicable.					
Building Yard					
11,661 sq ft facing street - Category 3 - 12' wide building yard - 220 lin. ft. facing street					
Requires 1 shade tree and 1 ornamental tree per 50 lin. ft. and 12 evergreen small or medium shrubs per 30 lin. ft. and 0.6 points per lin. ft.					
Requires 4 shade trees and 4 ornamental trees and 84 small or medium evergreen shrubs and 176 points.					
Providing 4 shade trees, 4 ornamental trees, 84 medium shrubs and 240 points					
Parking Lot Yard					
49 new parking spaces					
Requires 1 shade tree, or 2 ornamental trees and 6 small shrubs per each 10 parking spaces					
Requires 5 shade trees, or 10 ornamental trees and 40 small shrubs					
Providing 5 shade trees, and 40 small shrubs.					
Street Tree Yard					
Class 4 - 12' wide, 274 linear feet of street frontage					
Requires 1 shade tree per 40' to 50' depending on utilities and possible conflicts and 0.6 points per lin. ft.					
Requires 7 shade trees and 164 points					
Providing 14 shade trees and 168 points					
GENERAL NOTES					
1. Mute all plant beds with pine needles, or small size pine bark to a depth of 2 to 3 inches. Mulch beds around trees in lawn areas extending to a minimum radius of 4 feet from the tree trunk. Plant beds around shrubs shall extend a minimum of 1 foot beyond the spread of the shrubs.					
2. Irrigate regularly, but do not overwater. Conduct soil tests to determine soil amendment needs. Till all plant beds incorporating a 2" layer of clean certified compost 6 to 8 inches deep into soil. Dig tree and shrub pits 2x as wide root ball. Adjustment of pH may be necessary to get soils to around 6.5. Add new topsoil, as needed, to build plant beds up 6" to 8" above surrounding grade, except in hard surface courtyards.					
LANDSCAPE NOTES					
1. All work shall be in accordance with the current edition of the ANSI A300 Standard for Tree, Shrub, and other Woody Plant Management-Standard Practices.					
2. All plant stock shall comply with the current edition of ANSI Z60.1 American Standard for Nursery Stock.					
3. Height and width of plant material supersedes container size.					
4. Utilities shall be located before planting. www.ncd11.org.					
5. Planting locations will be adjusted to provide sufficient space for utilities, easements, street lighting, traffic signs, and sight triangles. 3' clearance around all sides of fire hydrants and utility appurtenances. On public streets, no trees shall be planted within 75' of approaching a stop sign. No plants or signs over 2' tall within sight triangles.					

NOTES:

- REMOVE WIRE OR NYLON TWINE FROM BALL.
- SOAK ROOT BALL AND PLANT PIT IMMEDIATELY AFTER INSTALLATION.
- SEE ATTACHED LANDSCAPE CONSTRUCTION STANDARDS FOR OTHER PLANTING REQUIREMENTS.
- STAKING REQUIRED FOR LEANING TREES OR AS REQUIRED BY CONTRACT. SEE GENERAL NOTES: SEC. 04100--TREE PLANTING, PART 3 PARAGRAPH B.9.



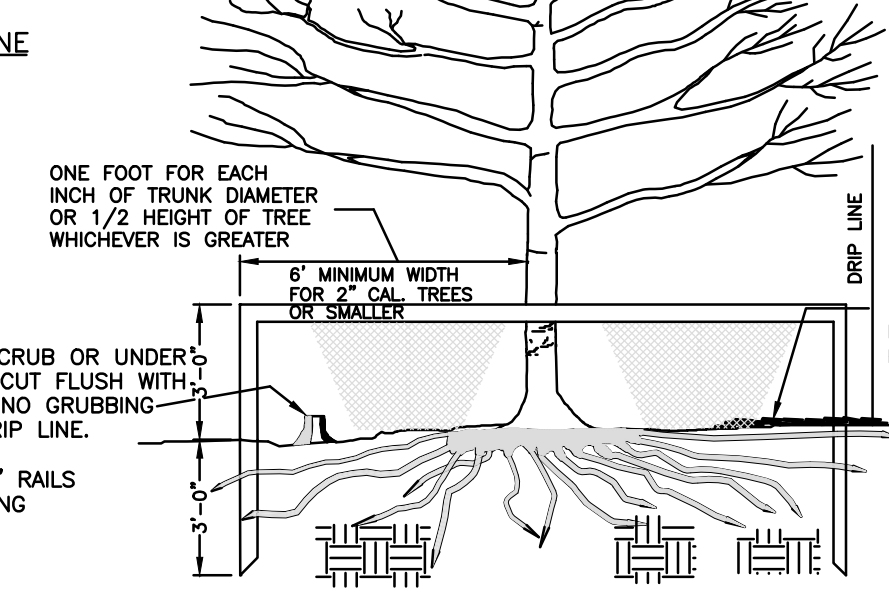
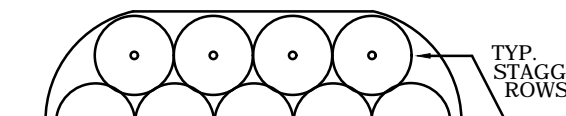
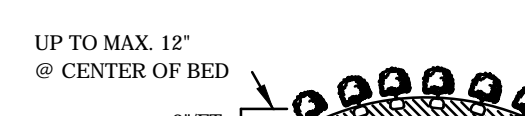
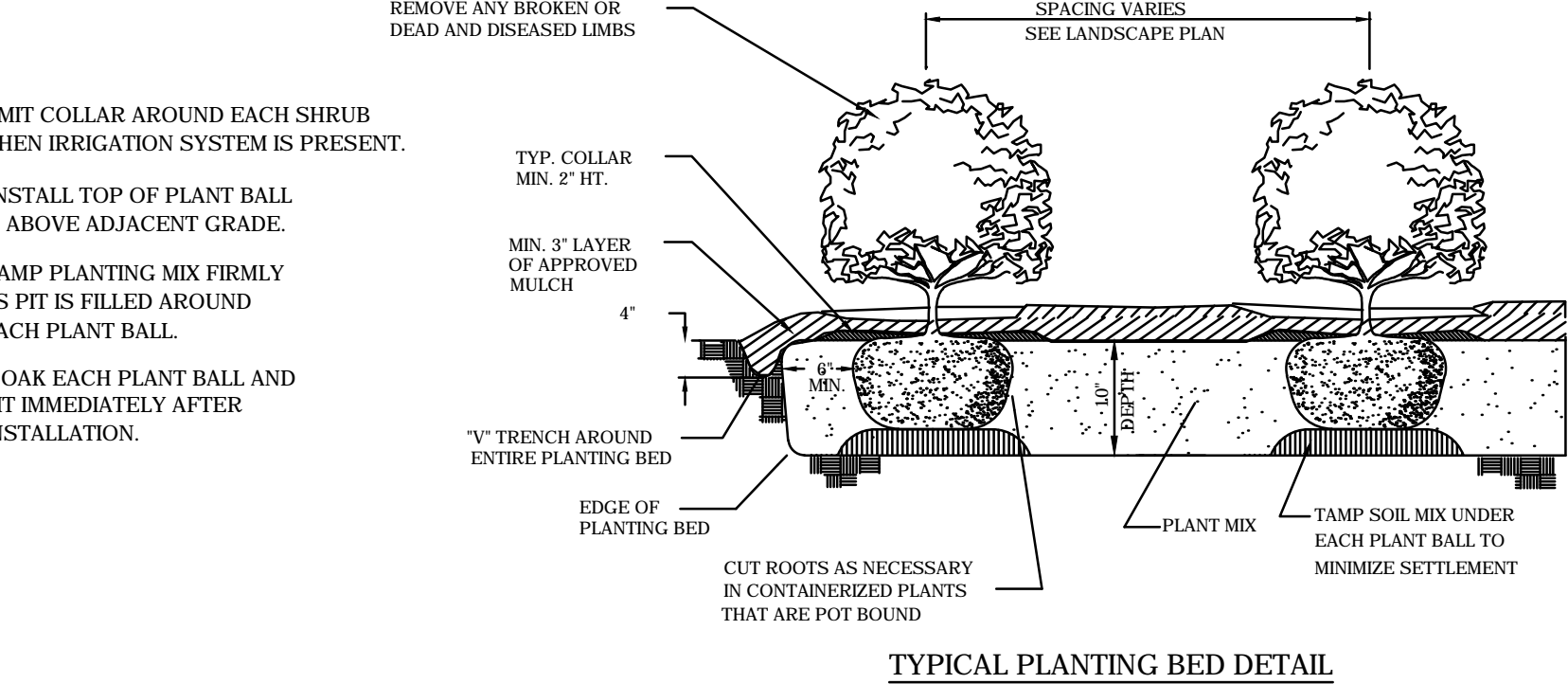
ALL TREES SHALL MEET AMERICAN STANDARD FOR NURSERY STOCK (AMSI, 1990, PART 1, "SHADE AND FLOWERING TREES")

FOR EXAMPLE:	3"	12-14"	18"	32"	21"
CALIPER	HEIGHT (RANGE)	MAX. HEIGHT	MIN. ROOT BALL DIA.	MIN. ROOT BALL DEPTH	

2 TREE PLANTING NTS

NOTES:

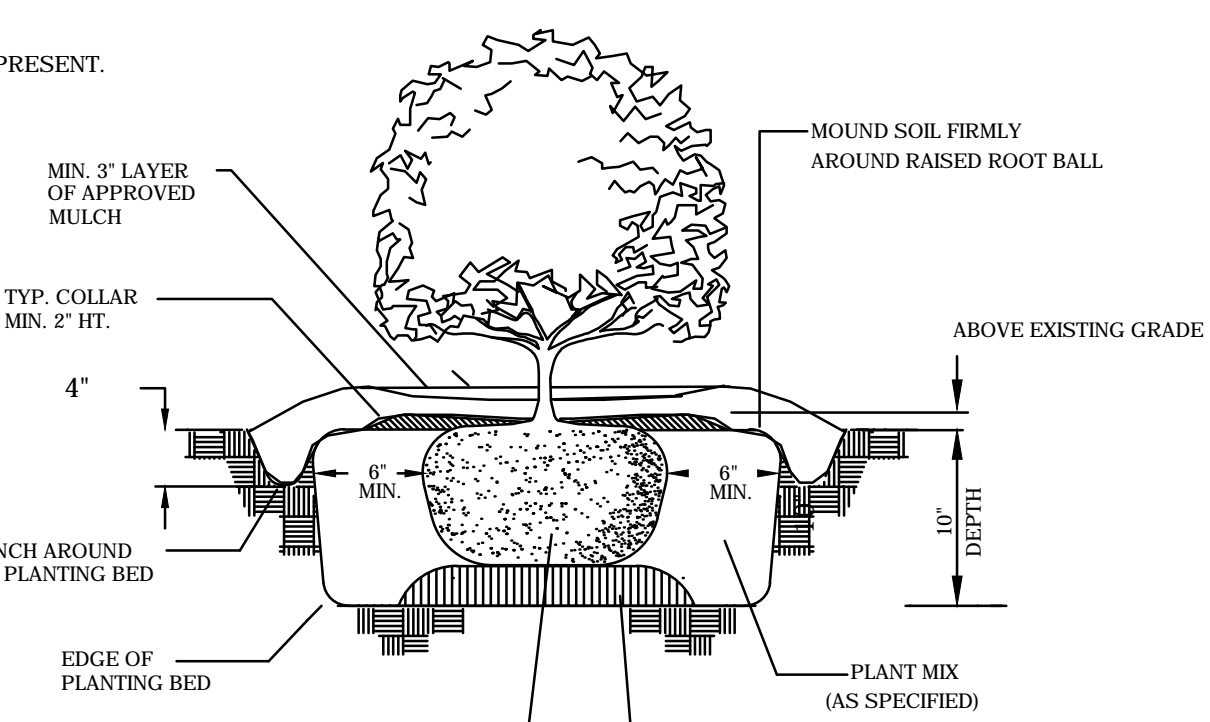
- OMIT COLLAR AROUND EACH SHRUB WHEN IRRIGATION SYSTEM IS PRESENT.
- INSTALL TOP OF PLANT BALL 2" ABOVE ADJACENT GRADE.
- TAMP PLANTING MIX FIRMLY AS PIT IS FILLED AROUND EACH PLANT BALL.
- SOAK EACH PLANT BALL AND PIT IMMEDIATELY AFTER INSTALLATION.



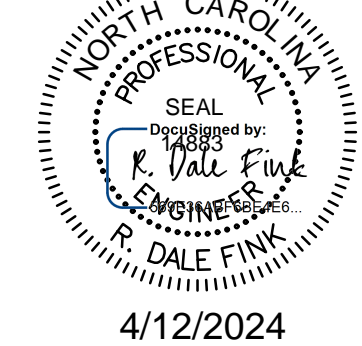
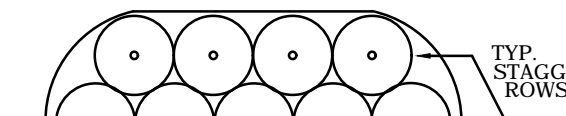
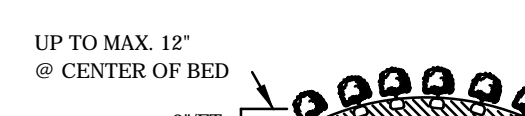
3 TREE PROTECTION DETAIL NTS

NOTES:

- OMIT COLLAR AROUND EACH SHRUB WHEN IRRIGATION SYSTEM IS PRESENT.
- INSTALL TOP OF PLANT BALL 2'-3" ABOVE ADJACENT GRADE.
- TAMP PLANTING MIX FIRMLY AS PIT IS FILLED AROUND EACH PLANT BALL.
- SOAK EACH PLANT BALL AND PIT IMMEDIATELY AFTER INSTALLATION.
- SEE SPECIFICATIONS FOR OTHER PLANTING REQUIREMENTS.



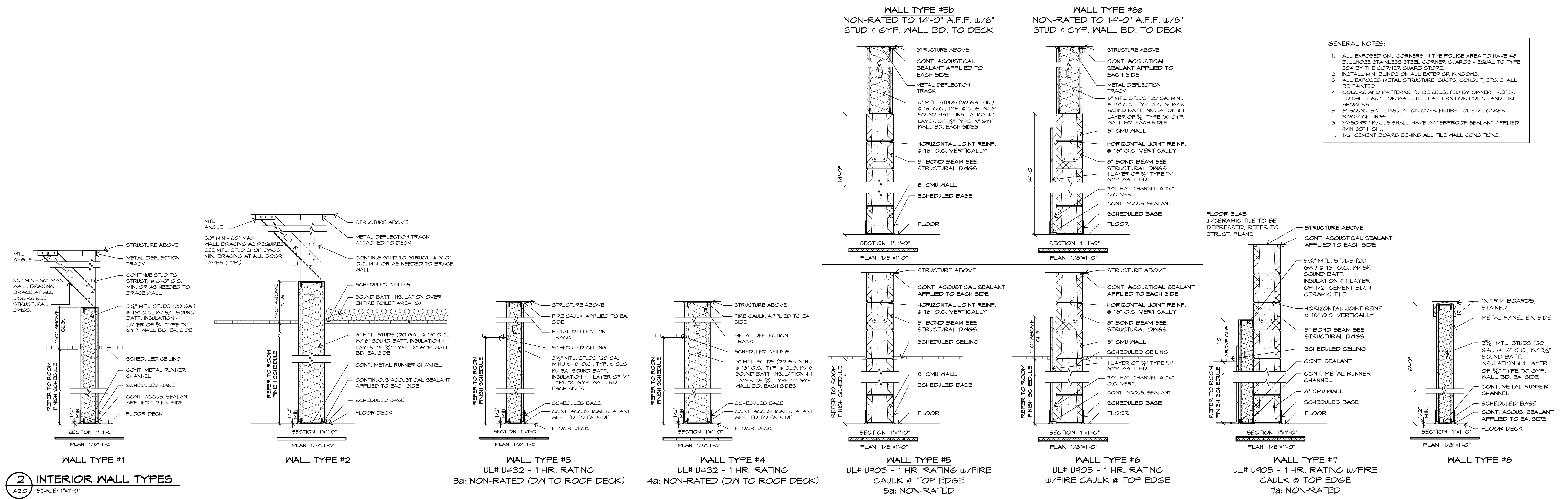
5 SHRUB PLANTING DETAIL NTS



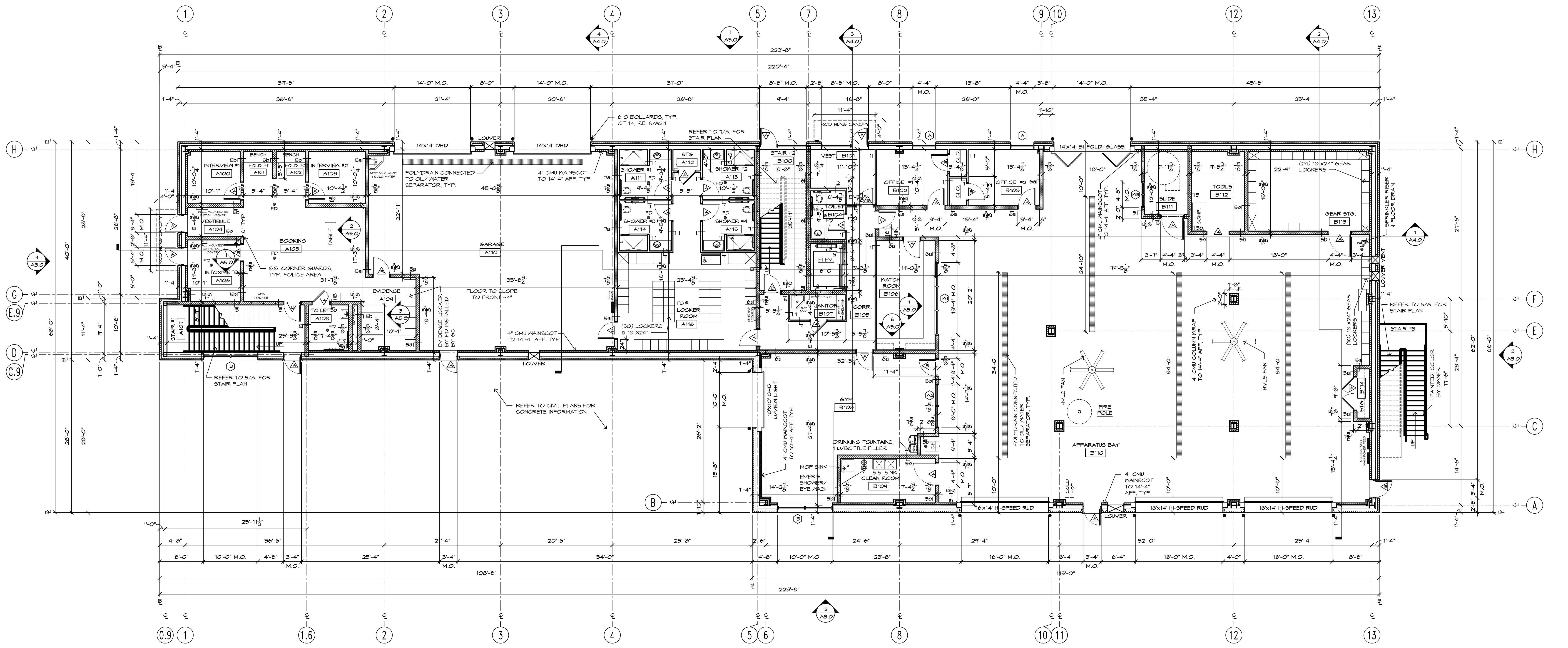
4/12/2024

REVISION SCHEDULE	
DATE	REFERENCE
2/14/24	Progress Set

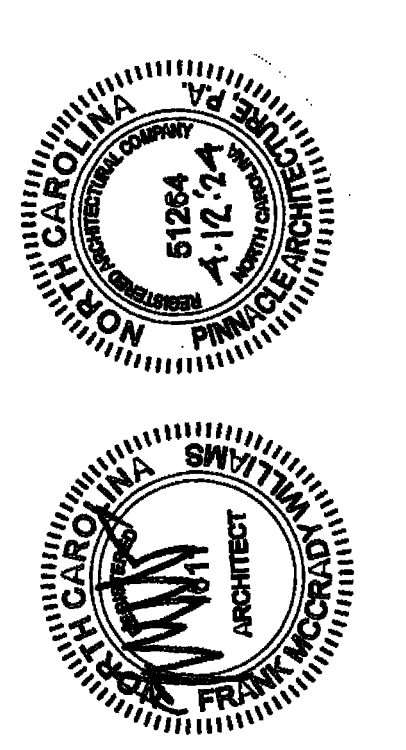
SCALE: NTS
DATE: 1-4-24
JOB # 23532
C - 6.6



2 INTERIOR WALL TYPES
SCALE: 1/8" = 1'-0"



1 1st FLOOR PLAN
SCALE: 1/8" = 1'-0" 12,071 SF



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ISSUE DATE: 04.12.24
DRAWN BY: JH/JR
CHECKED BY: JAV/MS
PROJECT: 2524

CONCORD FIRE STATION NO. 6
DAVID DISTRICT - NEW FACILITY
CONCORD, NC
1st FLOOR PLAN & WALL TYPES

REVISION	DATE	REFERENCE

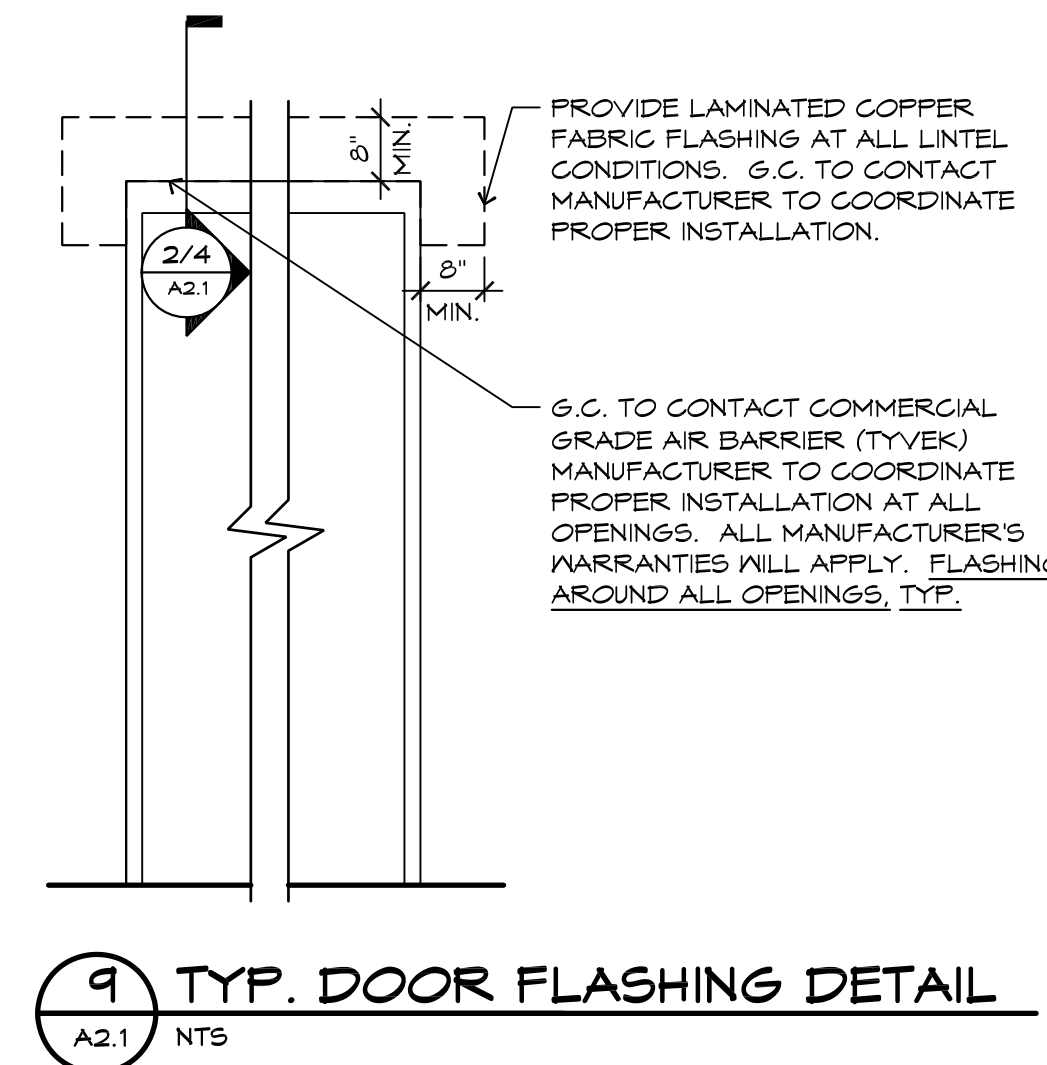
A2.0

- GENERAL NOTES:**
1. ALL EXPOSED CMU CORNERS IN THE POLICE AREA TO HAVE 45° BUILDINGS STAINLESS STEEL CORNER GUARDS - EQUAL TO TYPE 304 BY THE CORNER GUARD STORE.
 2. INSTALL MINI BLINDS ON ALL EXTERIOR WINDOWS.
 3. ALL EXPOSED METAL STRUCTURE, DUCTS, CONDUIT, ETC. SHALL BE PAINTED.
 4. COLORS AND PATTERNS TO BE SELECTED BY OWNER. REFER TO SHEET A6.1 FOR WALL TILE PATTERN FOR POLICE AND FIRE SHOWERS.
 5. 6" SOUND BATT. INSULATION OVER ENTIRE TOILET/ LOCKER ROOM CEILINGS.
 6. MASONRY WALLS SHALL HAVE WATERPROOF SEALANT APPLIED (MIN 60" HIGH).
 7. 1/2" CEMENT BOARD BEHIND ALL TILE WALL CONDITIONS.

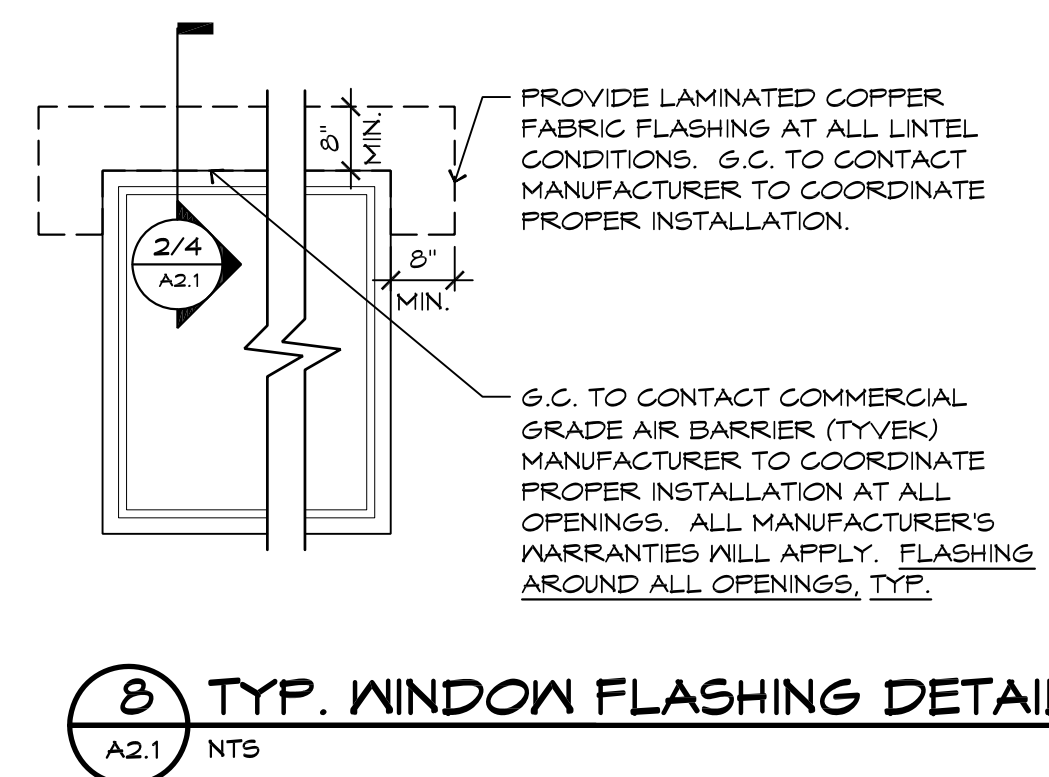
ALL CORNERS TO BE FACTORY RADIUS TO INCLUDE BUT NOT LIMITED TO WINDOW OPENING(S), DOOR OPENING(S), WALL OPENING(S), WALL(S), ETC.

NOTE: MASONRY COURSE AT CEILING GRID AND BASE TO BE SQUARE, NOT FACTORY RADIUS.

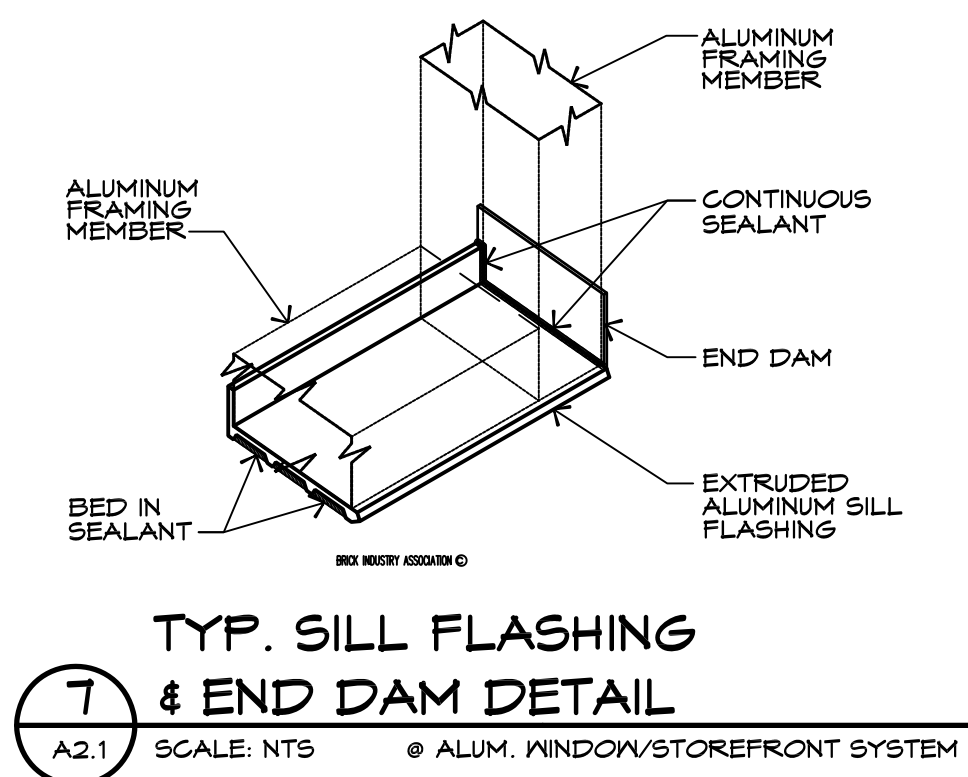
TYP. INTERIOR (270°)
10 CMU CORNERS
 A2.1 SCALE: 1/4" = 1'-0"



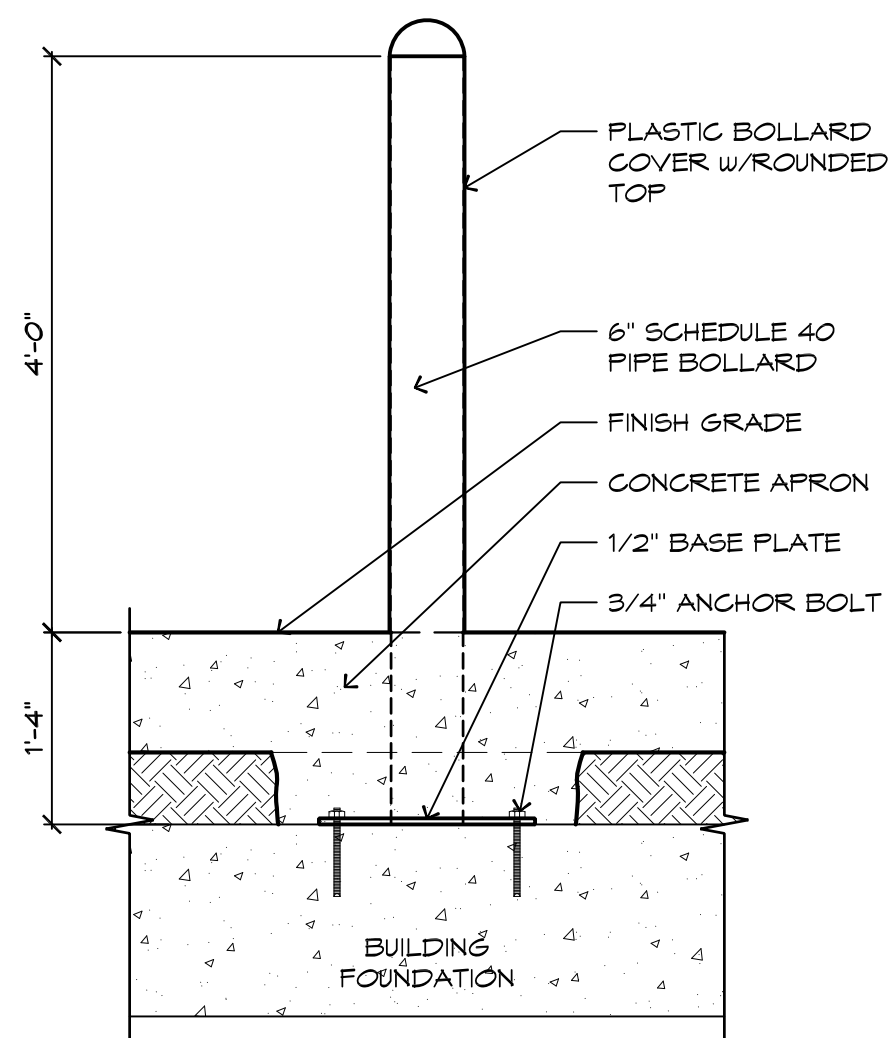
9 TYP. DOOR FLASHING DETAIL
 A2.1 NTS



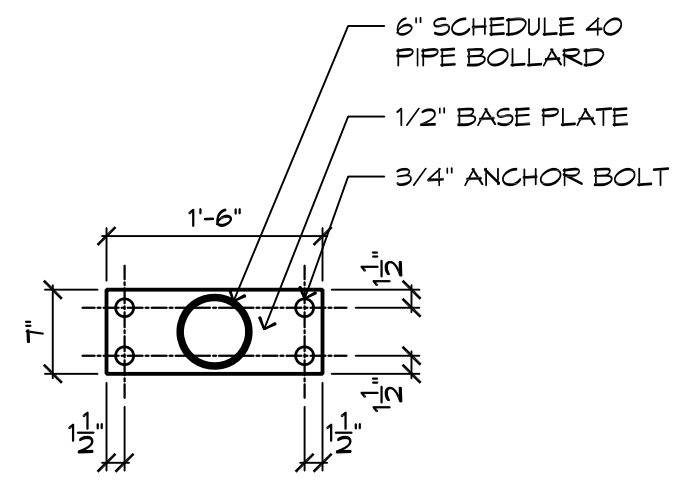
8 TYP. WINDOW FLASHING DETAIL
 A2.1 NTS



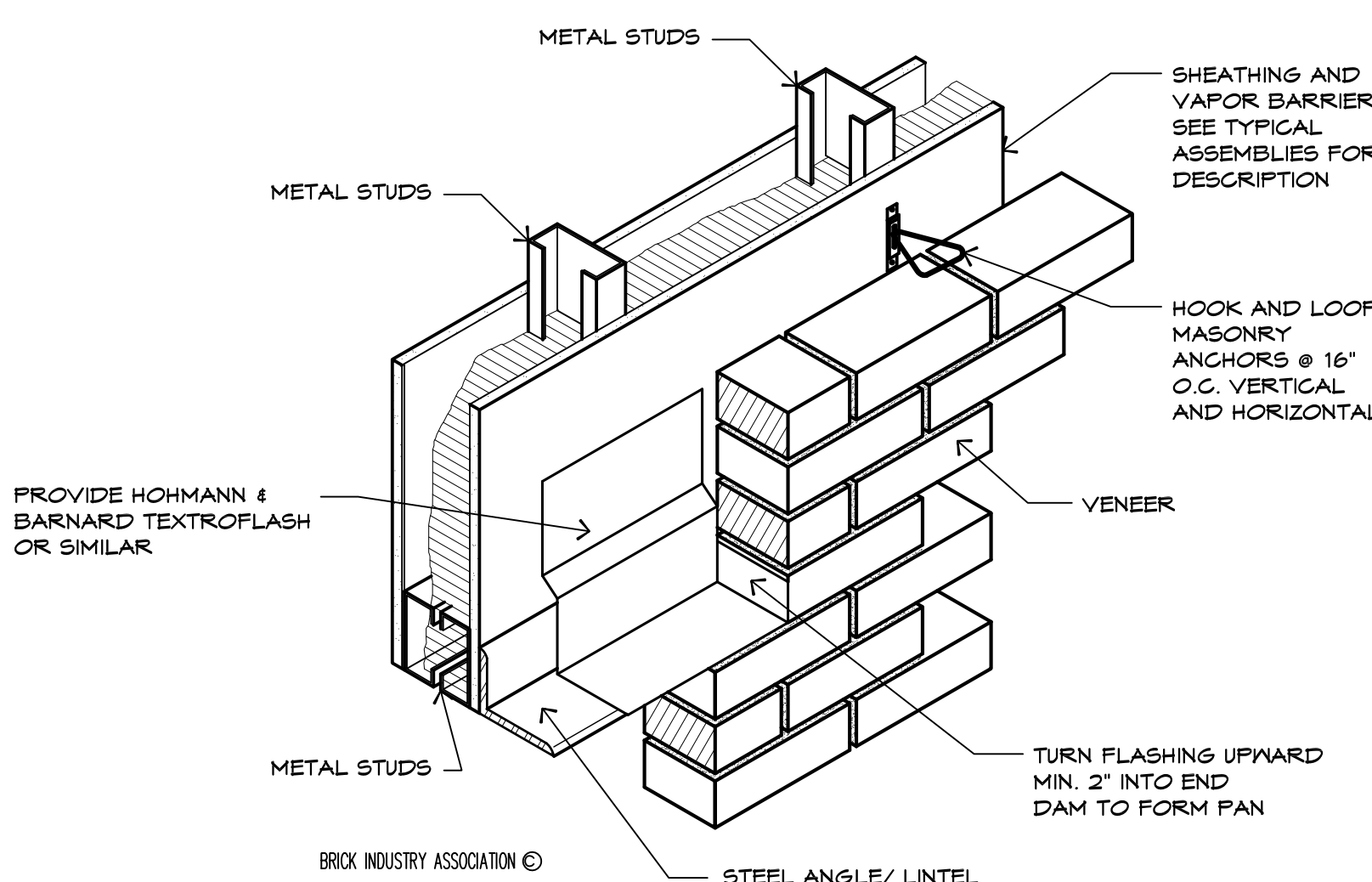
7 TYP. SILL FLASHING & END DAM DETAIL
 A2.1 SCALE: NTS @ ALUM. WINDOW/STOREFRONT SYSTEM



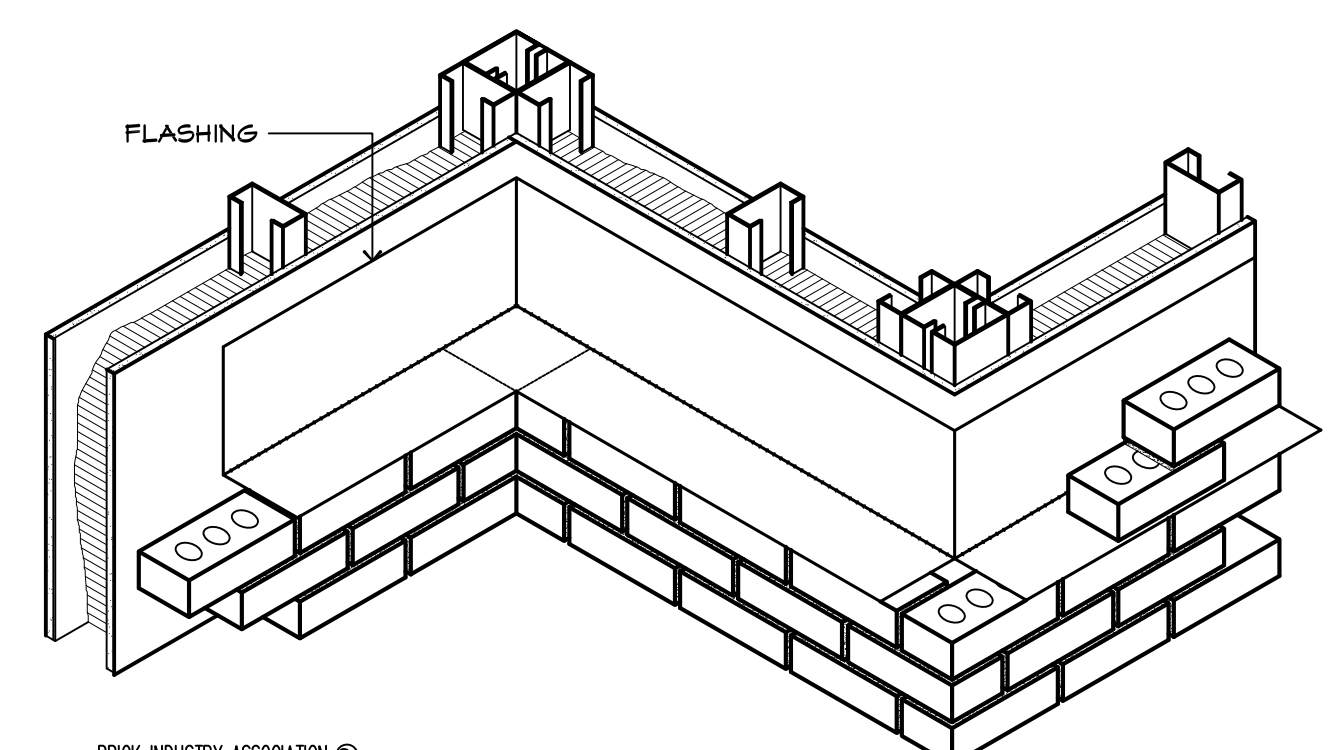
6 BOLLARD SECTION
 A2.1 SCALE: 3/4" = 1'-0"



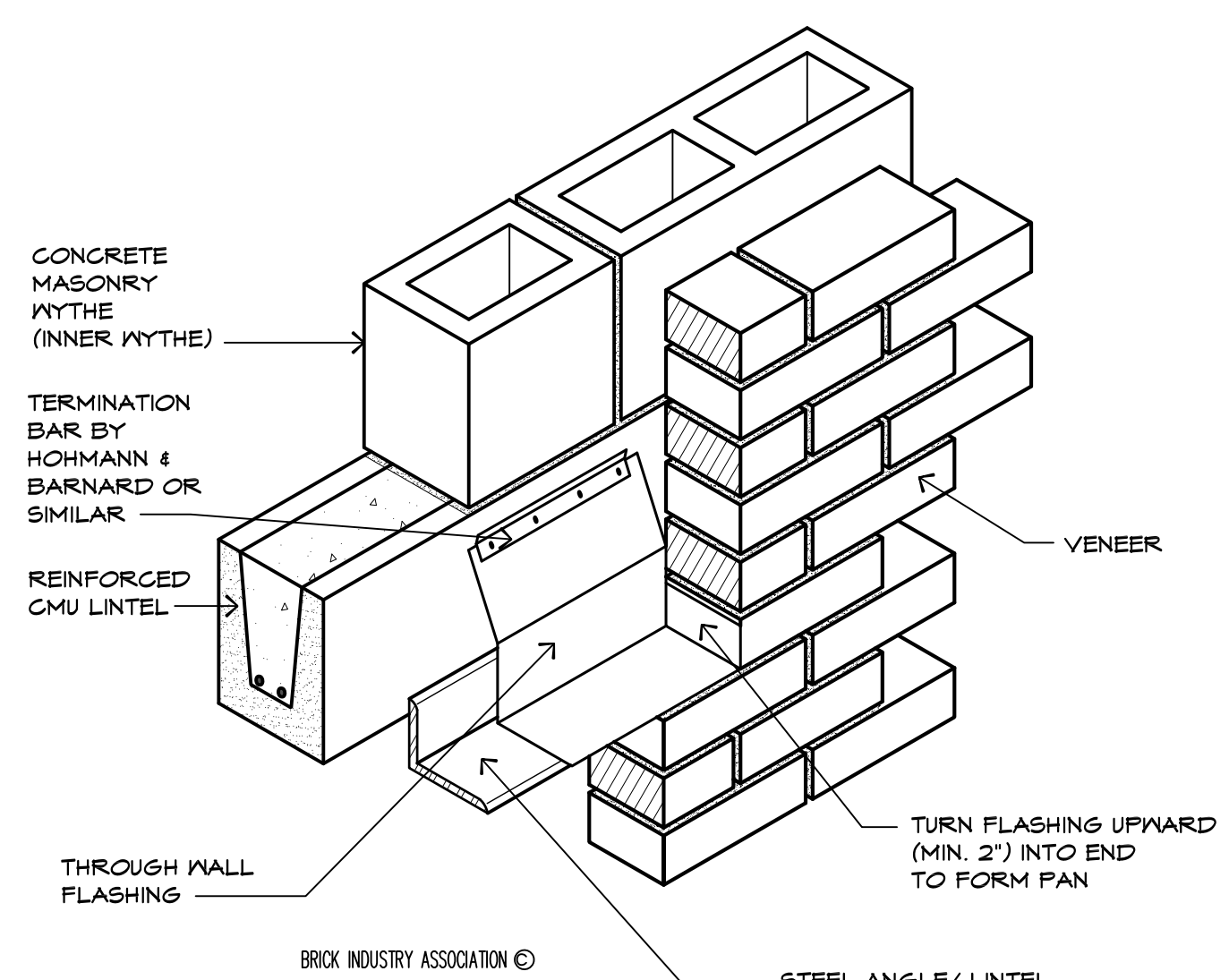
5 BOLLARD PLAN
 A2.1 SCALE: 3/4" = 1'-0"



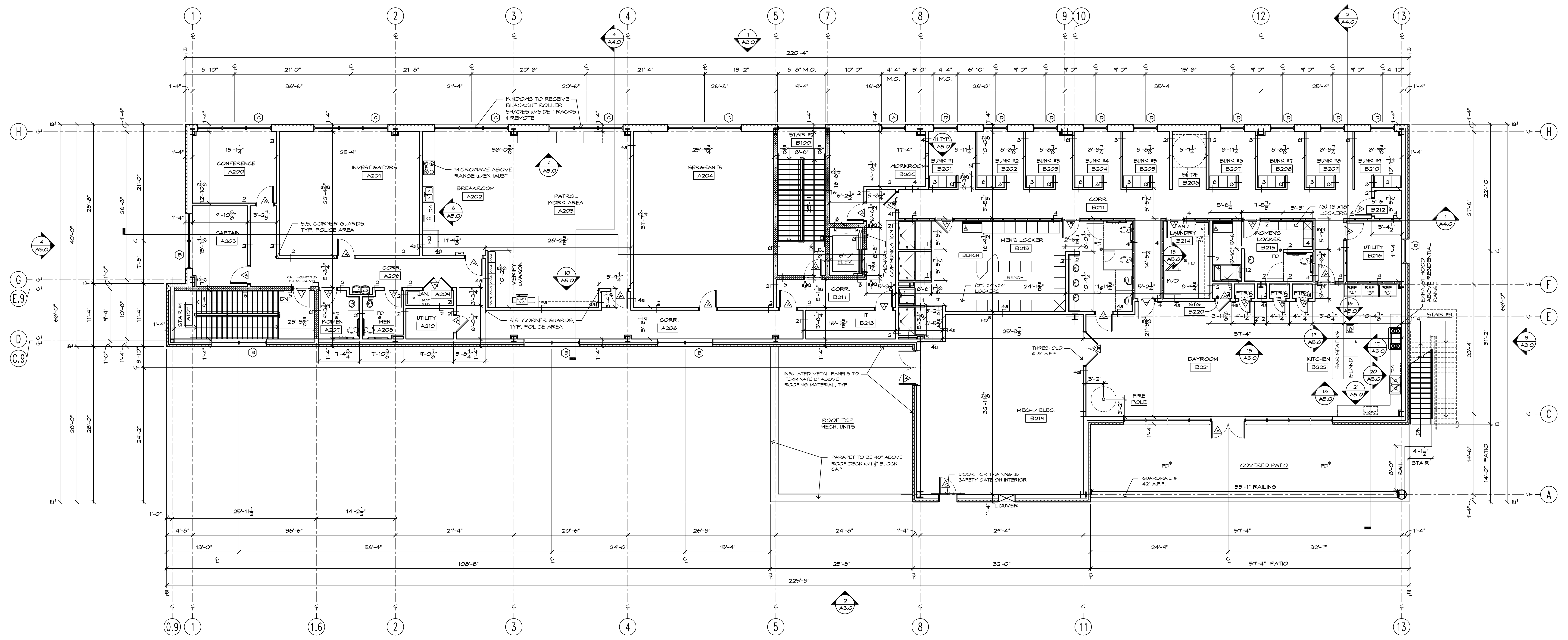
4 TYP. FLASHING DETAIL
 A2.1 SCALE: NTS @ LINTEL IV/ END DAM



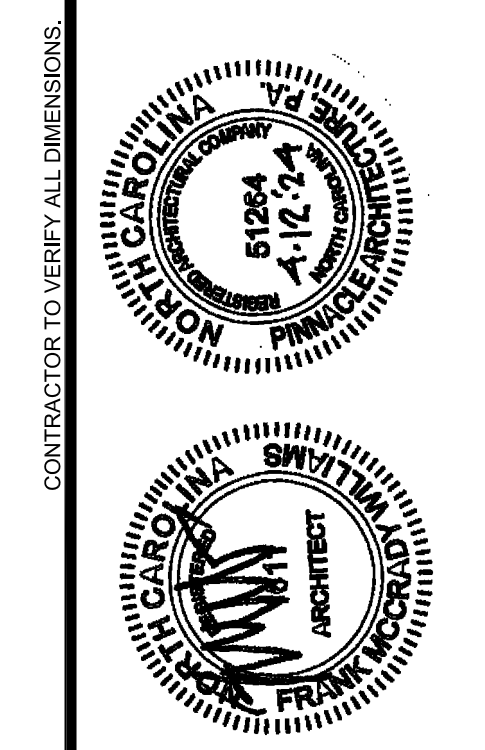
3 TYP. FLASHING DETAIL
 A2.1 SCALE: NTS @ CORNERS



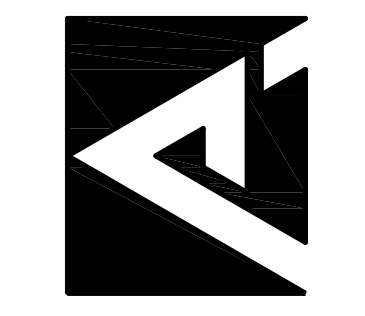
2 TYP. FLASHING DETAIL
 A2.1 SCALE: NTS @ LINTEL IV/ END DAM



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ISSUE DATE: 04.12.24
 DRAWN BY: JH/JR
 CHECKED BY: JVA/YES
 PROJECT: 2524

CONCORD FIRE STATION NO. 6
DAVID DISTRICT - NEW FACILITY
CONCORD, NC
2nd FLOOR PLAN & DETAILS

REVISION SCHEDULE		
NO.	DATE	REFERENCE

A2.1

TYPICAL CEILING NOTES:
SEISMIC DESIGN CATEGORY 'C'

BASIC CONNECTIONS, PERIMETER AND BRACING

- 60 LB. MINIMUM INTERSECTION STRENGTH LIMITS @MT/CT.
- VERTICAL HANGER WIRE 12 GA. @ 4'-0" O.C.
- INTERMEDIATE OR HEAVY DUTY MAIN TEES.
- 1 IN. @ MAXIMUM PLUMB OF VERTICAL HANGER WIRES PER ASTM C635.
- PERIMETER VERTICAL HANGER WIRES NOT MORE THAN 8" FROM WALL UNLESS MOLDING IS LESS THAN 7/8".
- 3/8" MINIMUM GRID END/WALL CLEARANCE.
- MINIMUM 7/8" PERIMETER CLOSURE MOLDING WIDTH UNLESS USING PERIMETER WIRES.
- GRID CONNECTION TO PERIMETER ATTACHED ON TWO WALLS NOT PERMITTED.
- PERIMETER TEE ENDS REQUIRED TO BE TIED TOGETHER.
- PARTITION ATTACHMENT ALLOWED ONLY IF CEILING IS CAPABLE OF MOVING LATERALLY.

LIGHTING FIXTURE ATTACHMENT

- LIGHT FIXTURE (ALL TYPES) MECHANICALLY ATTACHED TO GRID NEC 410-16 (TWO PER FIXTURE UNLESS INDEPENDENTLY SUPPORTED).
- PENDANT HANG FIXTURES DIRECTLY SUPPORTED FROM STRUCTURE WITH 4 GA. WIRE (OR APPROVED ALTERNATE).
- RIGID LAY-IN OR CAN LIGHT FIXTURES:
 - < 10 LBS. - ONE WIRE TO STRUCTURE (MAY BE SLACK).
 - 10-56 LBS. - TWO WIRES FROM HOUSING TO STRUCTURE (MAY BE SLACK).
 - > 56 LBS. - SUPPORTED DIRECTLY TO STRUCTURE BY APPROVED ALTERNATE.
 - < 20 LBS. - POSITIVELY ATTACHED TO GRID.
 - 20-56 LBS. - POSITIVELY ATTACHED TO GRID AND TWO WIRES TO STRUCTURE (MAY BE SLACK).
 - > 56 LBS. - DIRECTLY SUPPORTED TO STRUCTURE.

SERVICE APPLICATIONS

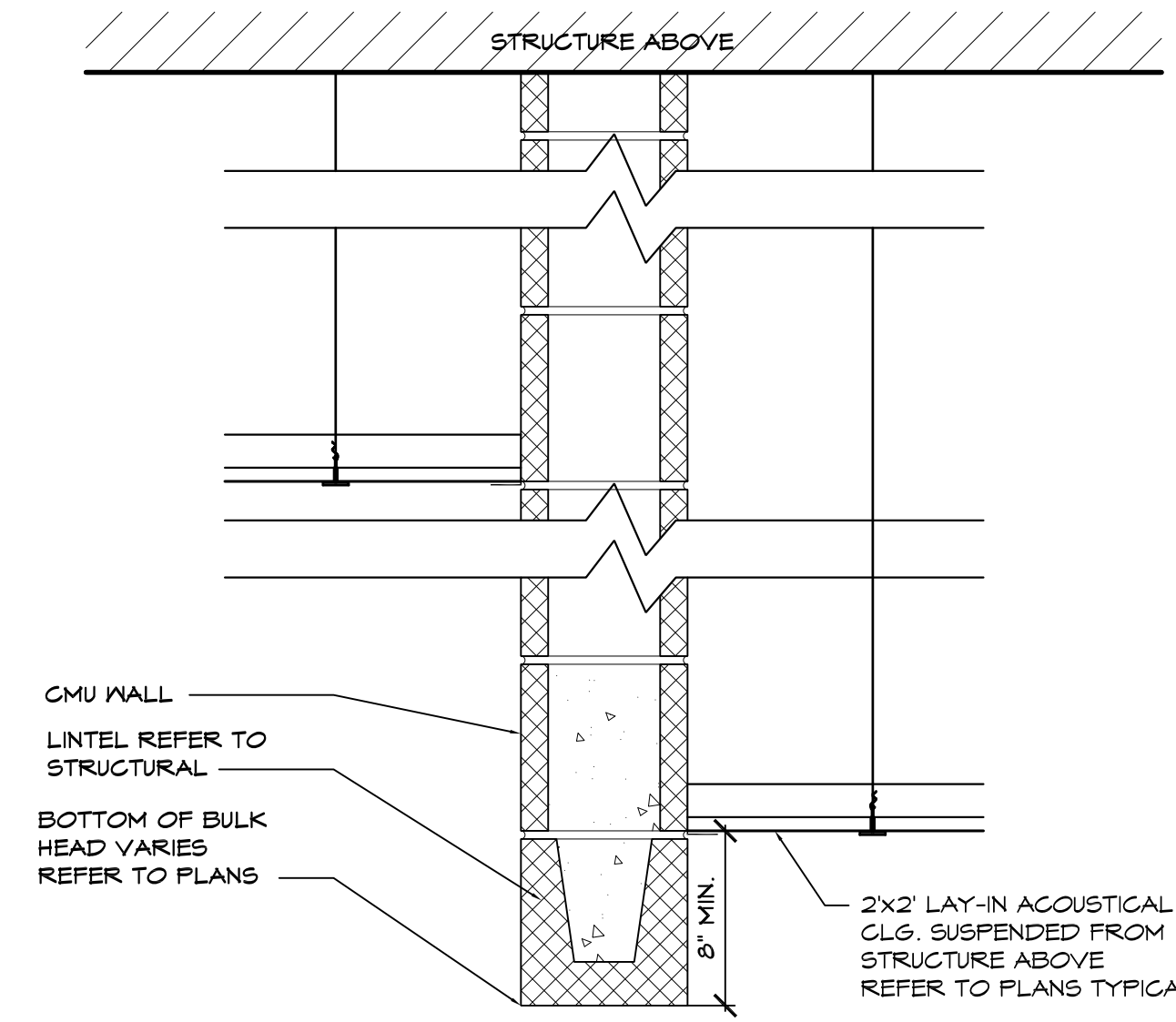
- LESS THAN 20 LBS. POSITIVELY ATTACHED TO GRID.
- 20 TO 56 LBS. POSITIVELY ATTACHED TO GRID AND TWO WIRES TO STRUCTURE (CAN BE SLACK).
- MORE THAN 56 LBS. MUST BE DIRECTLY SUPPORTED TO STRUCTURE.
- MINIMUM 3/8" ON ALL SIDES PERTAINING TO SPRINKLER HEADS AND OTHER PENETRATION CLEARANCES.

NOTES

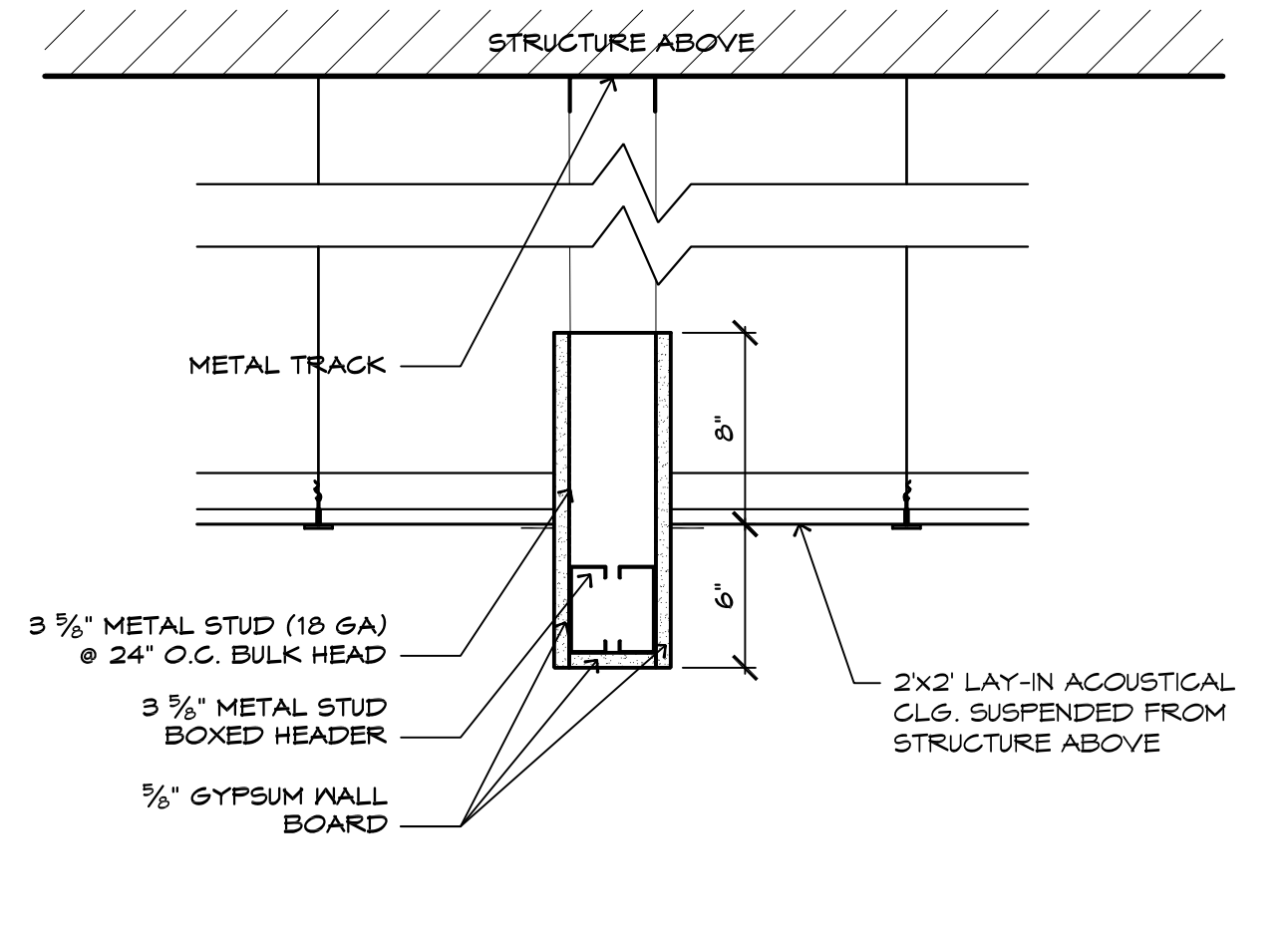
- REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR LIGHTING AND DIFFUSER LOCATIONS.
- CEILING HEIGHTS ARE GIVEN ACCORDING TO THE FINISHED FLOOR ELEVATION DIRECTLY BELOW.

CEILING LEGEND

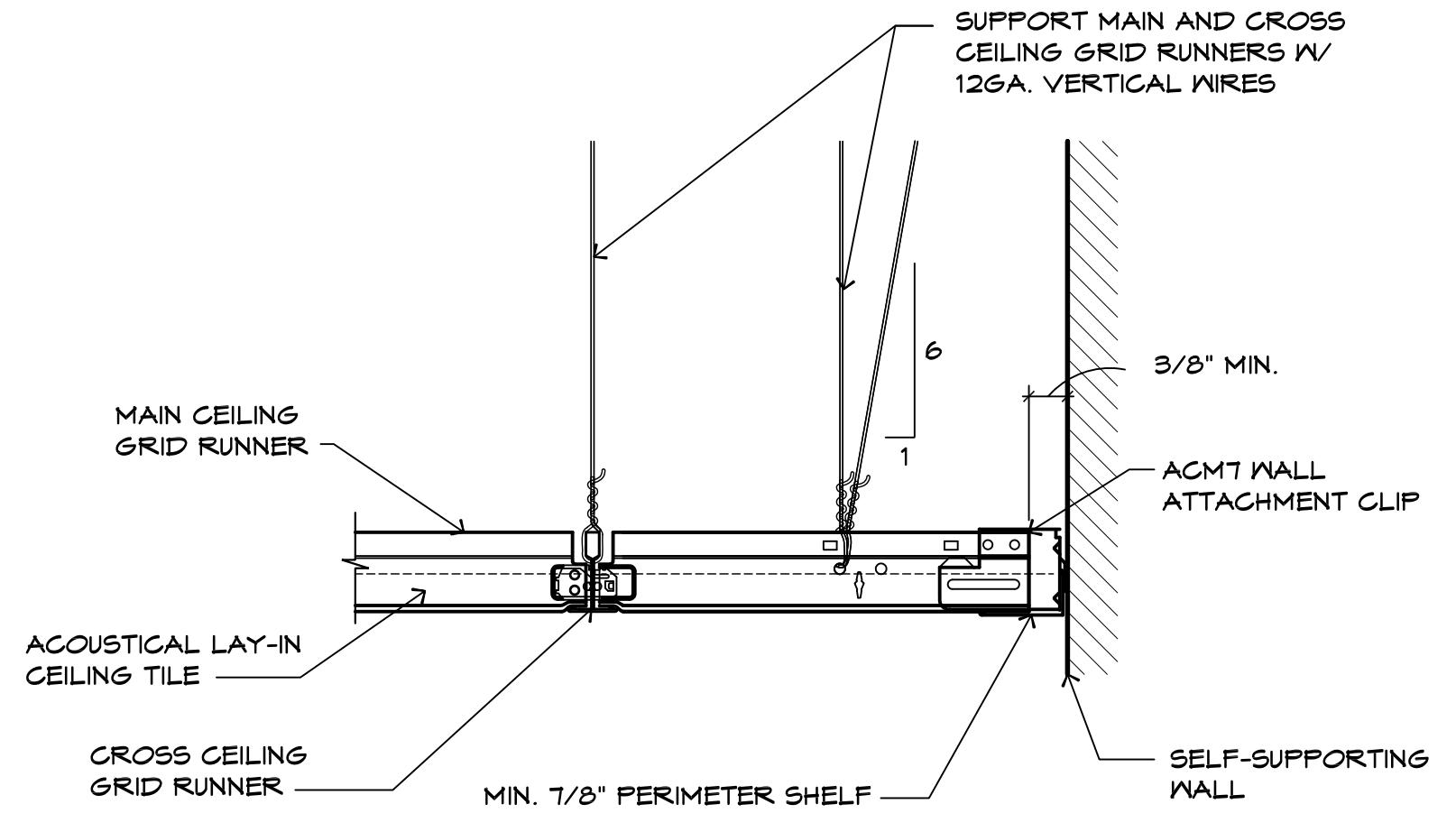
C-1	24 X 24 X 5/8 LAY-IN PANELS (ARMSTRONG FINE FISSURE/HUMIGUARD)
C-2	NO CEILING, OPEN TO STRUCTURE ABOVE
C-3	TILED CEILING
C-4	SMOOTH PANEL (MATCH SOFFIT)



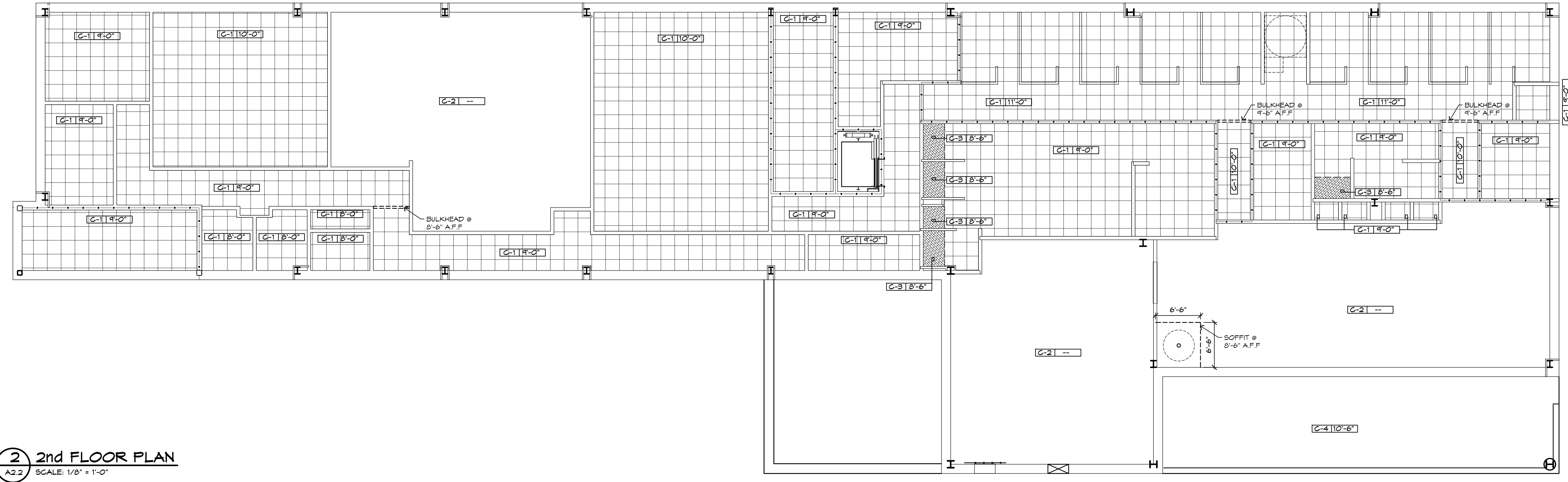
4 CMU BULKHEAD DETAIL
A2.2 SCALE: 1/2"=1'-0"



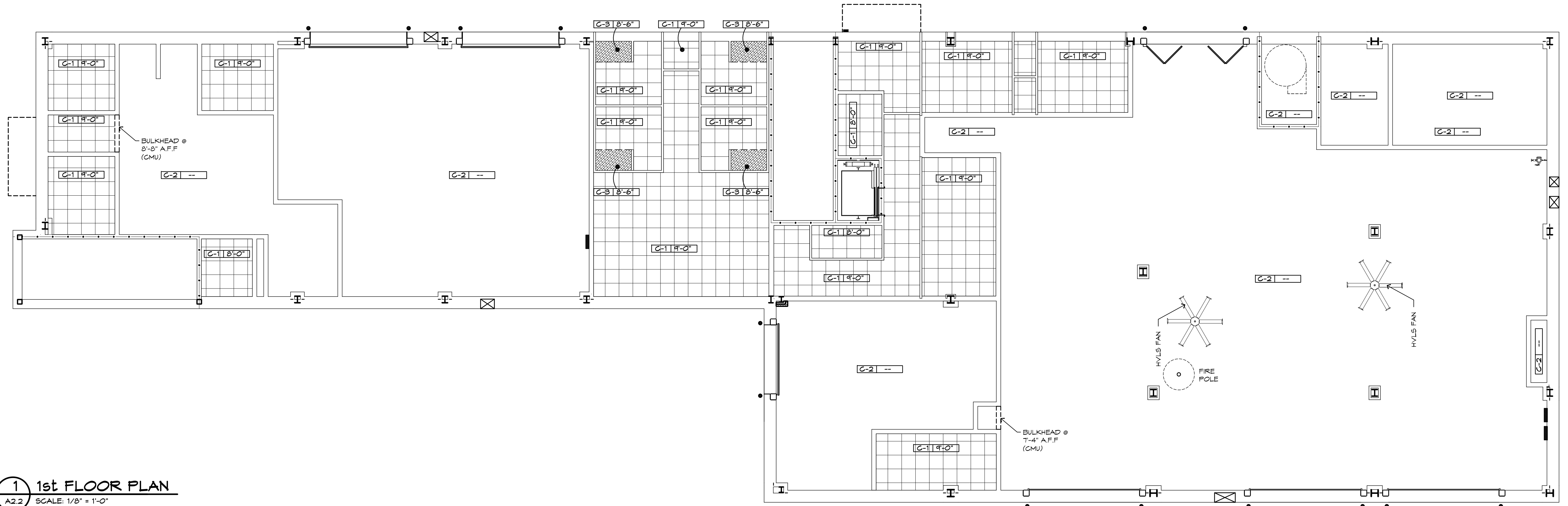
3 BULKHEAD DETAIL
A2.2 SCALE: 1/2"=1'-0"



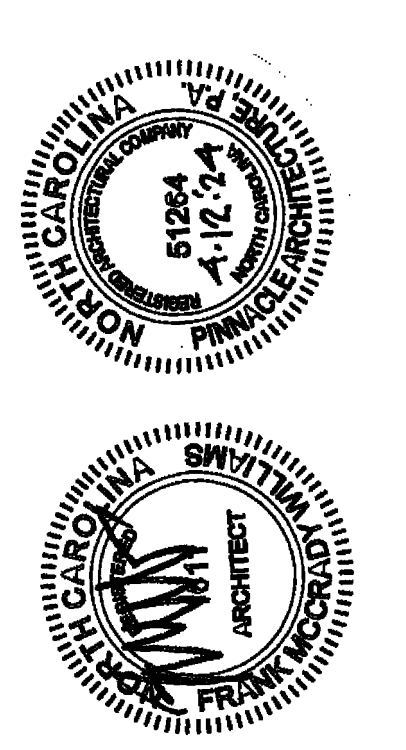
5 TYPICAL DETAIL
A2.2 SCALE: NOT TO SCALE



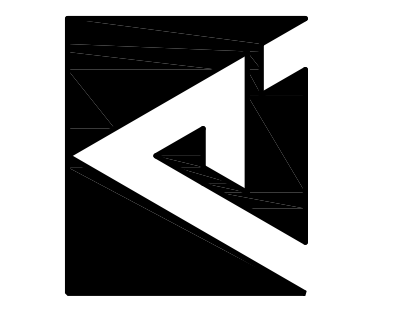
2 2nd FLOOR PLAN
A2.2 SCALE: 1/8"=1'-0"



1 1st FLOOR PLAN
A2.2 SCALE: 1/8"=1'-0"



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STAR, NORTH CAROLINA 27386
(910) 428-1380

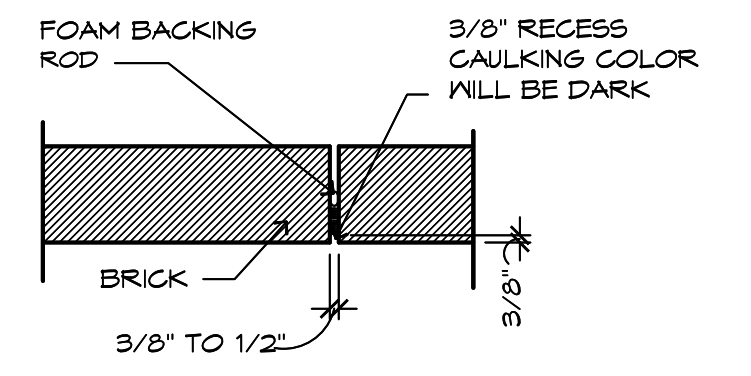
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PROJECT: 2524

CONCORD FIRE STATION NO. 6
DAVID DISTRICT - NEW FACILITY
CONCORD, NC
REFLECTED CEILING PLANS
& DETAILS

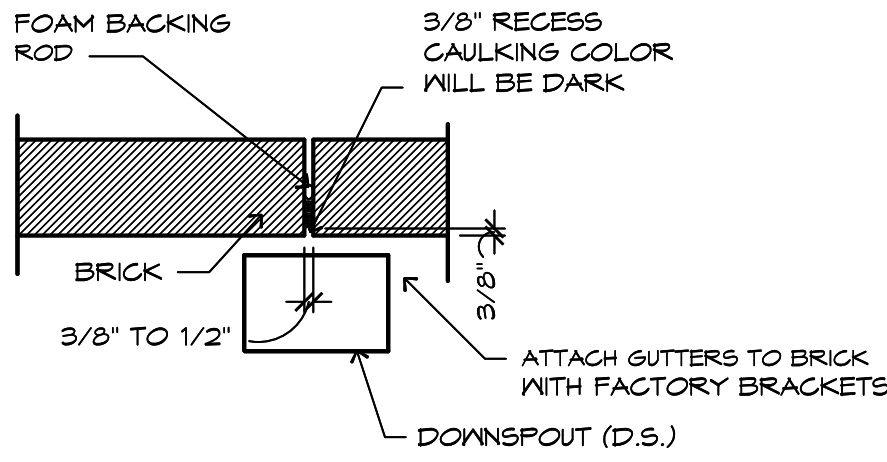
REVISION SCHEDULE

NO.	DATE	REFERENCE

A2.2

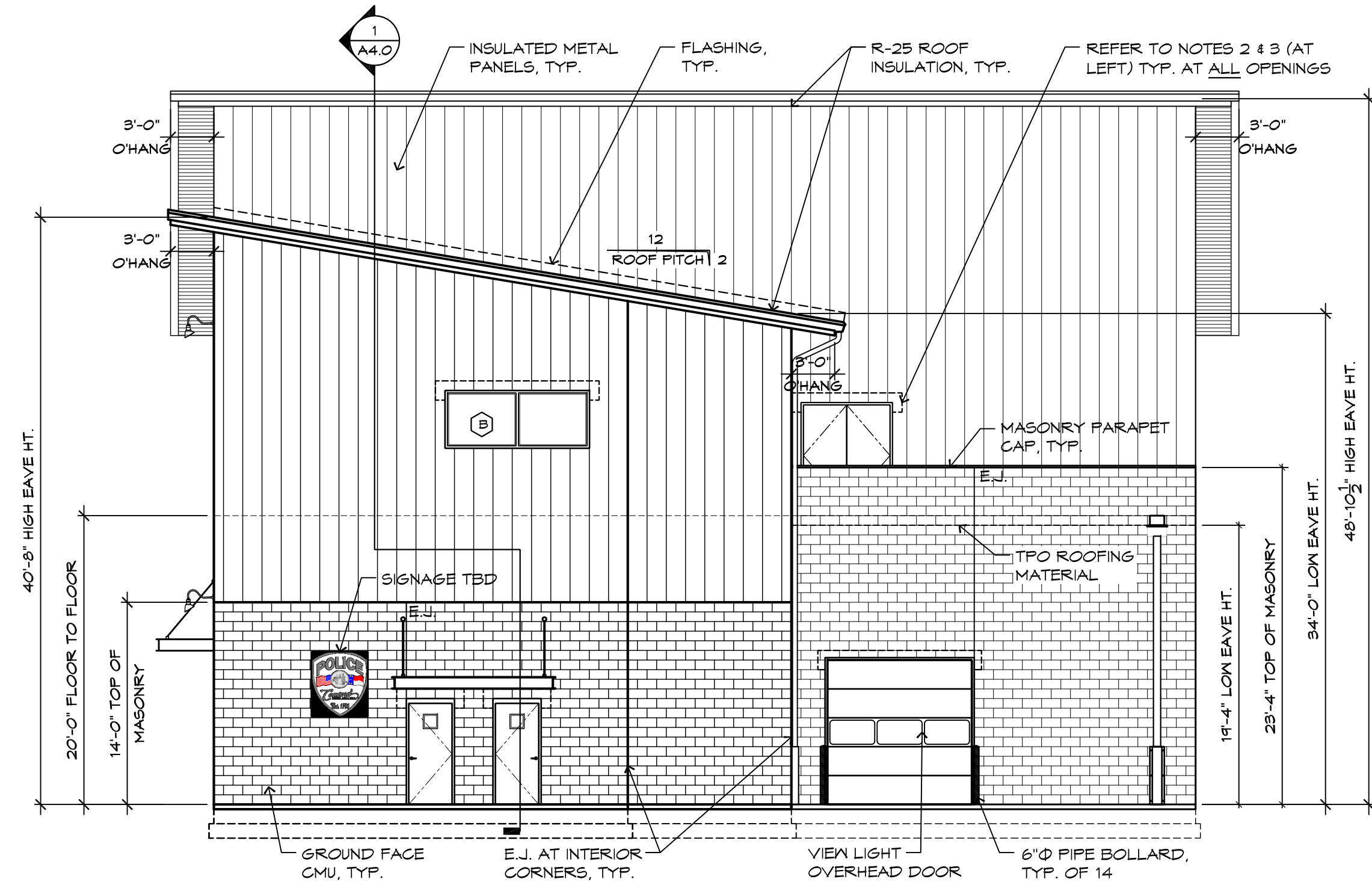


6 TYP. EXPANSION JOINT
A3.0 SCALE: N.T.S.

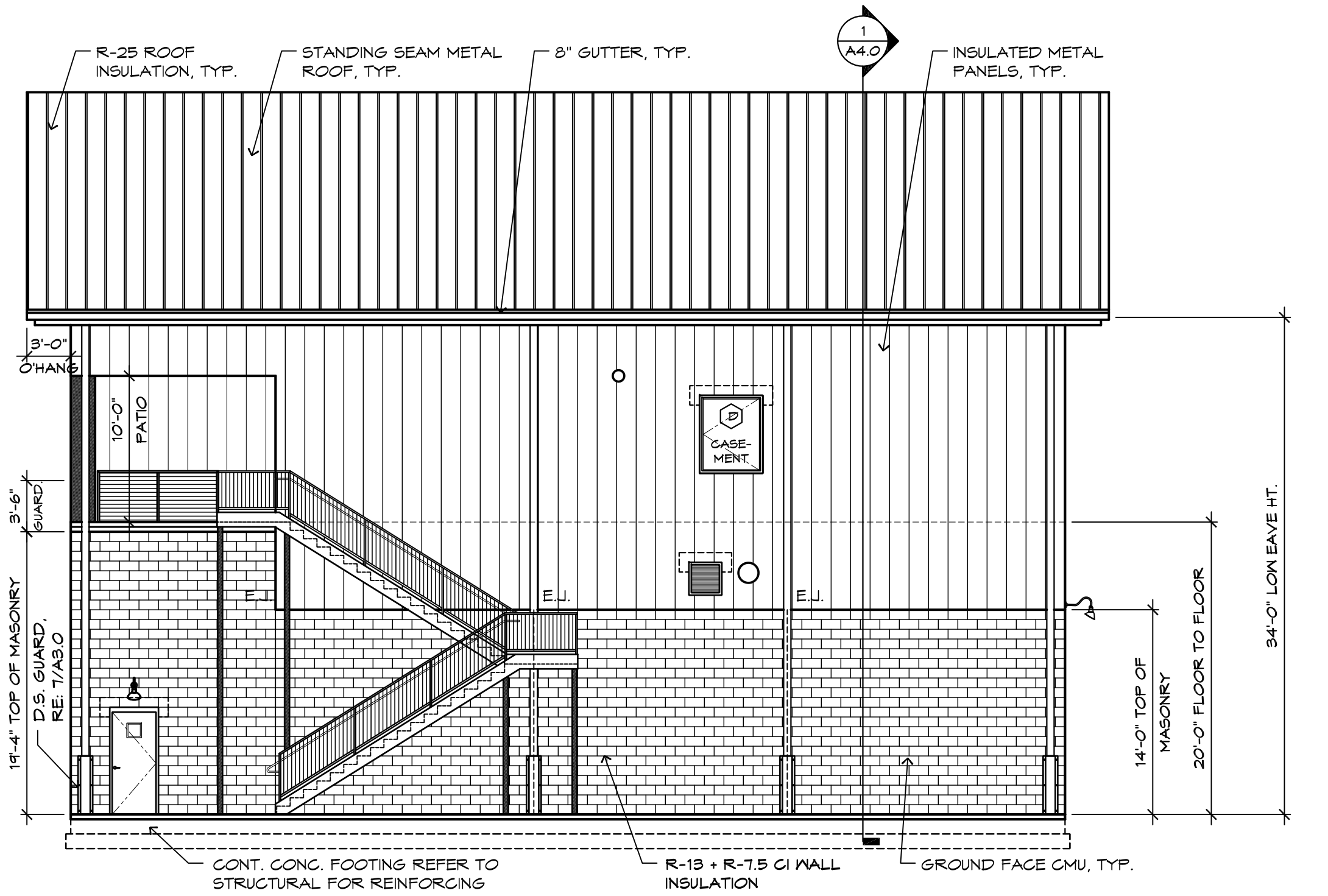


5 TYP. EXPANSION JOINT
A3.0 SCALE: N.T.S.

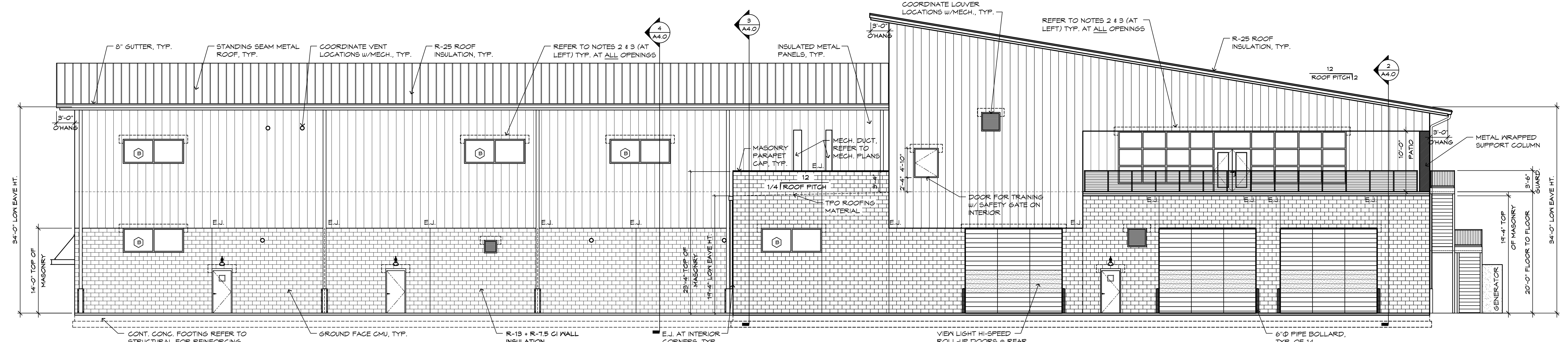
- NOTES:**
1. EXPANSION JOINTS BEHIND DOWN SPOUTS UNLESS OTHERWISE NOTED.
 2. G.C. TO CONTACT COMMERCIAL GRADE AIR BARRIER (TYVEK) MANUFACTURER TO COORDINATE PROPER INSTALLATION AT ALL OPENINGS. ALL MANUFACTURER'S WARRANTIES WILL APPLY.
 3. PROVIDE LAMINATED COPPER FABRIC FLASHING AT ALL LEVEL CONDITIONS. G.C. TO CONTACT MANUFACTURER TO COORDINATE PROPER INSTALLATION.



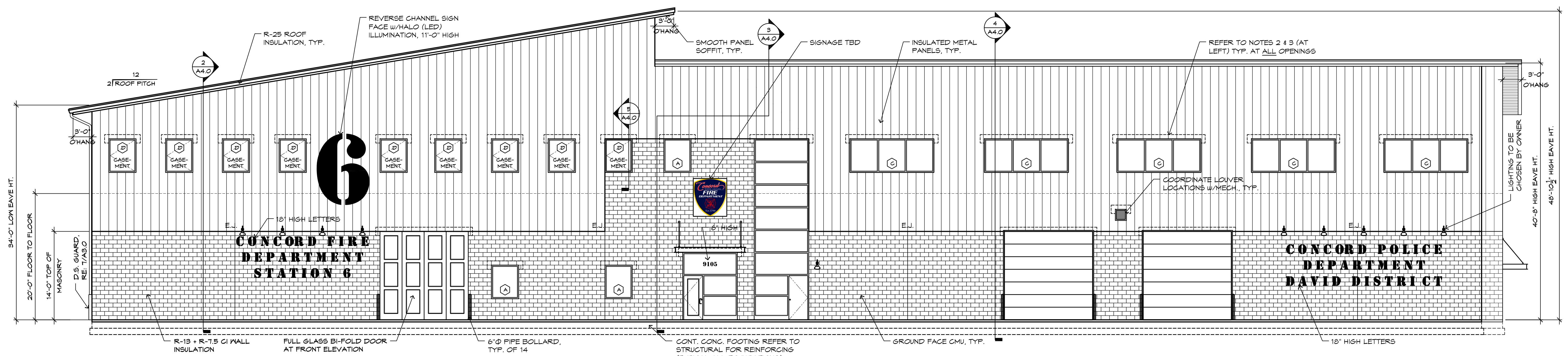
**4 SOUTH-
RIGHT ELEVATION**
A3.0 SCALE: 1/8" = 1'-0"



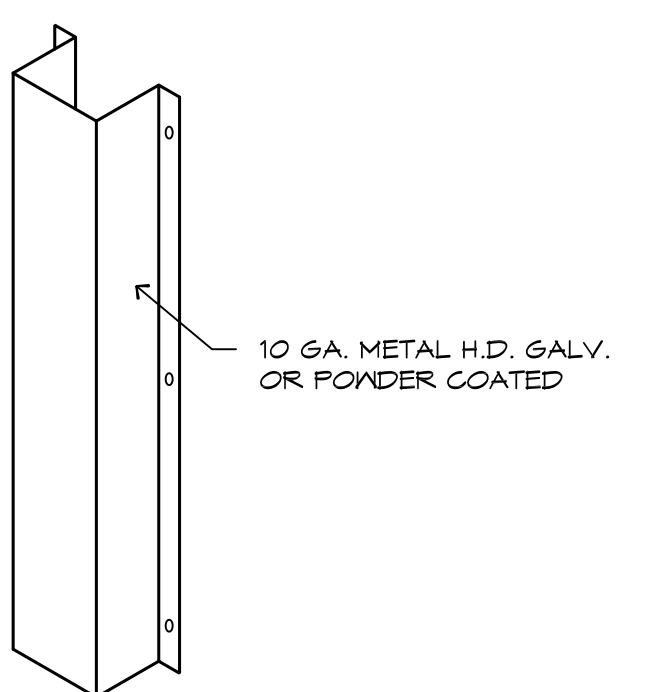
**3 NORTH-
LEFT ELEVATION**
A3.0 SCALE: 1/8" = 1'-0"



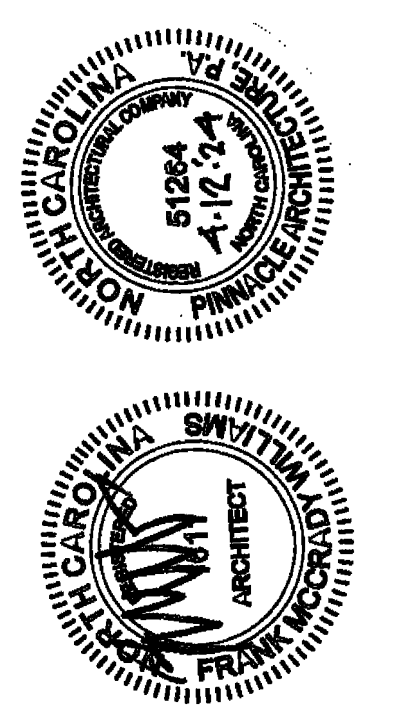
**2 EAST-TARMAC
REAR ELEVATION**
A3.0 SCALE: 1/8" = 1'-0"



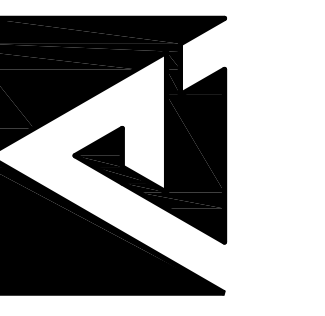
**1 WEST-RUSTY WALLACE WAY
FRONT ELEVATION**
A3.0 SCALE: 1/8" = 1'-0"



7 D.S. PROTECTION DETAIL
A3.0 SCALE: 3/4" = 1'-0"



**PINNACLE ARCHITECTURE
PROFESSIONAL ASSOCIATION**
701 EAST BRAY STREET, SUITE 300
MATTHEWS, NORTH CAROLINA 28106
PH: (704) 847-9333 FAX: (704) 847-9333



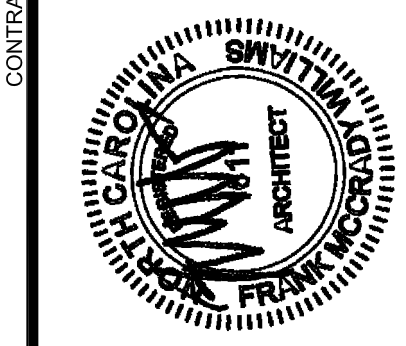
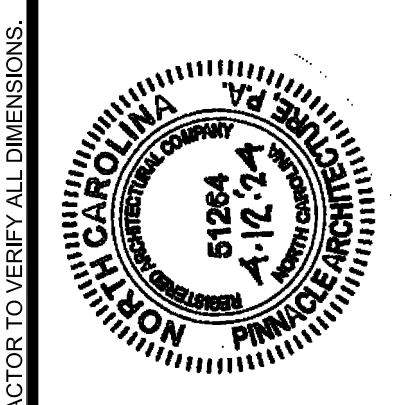
D.R. REYNOLDS COMPANY, INC.
1703 GREETER PARK ROAD
STAR, NORTH CAROLINA 27386
(910) 428-1380

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PROJECT: 2024

**CONCORD FIRE STATION NO. 6
DAVID DISTRICT - NEW FACILITY
CONCORD, NC
EXTERIOR ELEVATIONS**

REVISION SCHEDULE		
NO.	DATE	REFERENCE

A3.0



PINNACLE ARCHITECTURE
PROFESSIONAL ASSOCIATION
P.O. BOX 163, SOUTHEAST ROAD, SUITE 200
MATTHEWS, NORTH CAROLINA 28106
PH: (813) 852-3545 FAX: (813) 972-3541



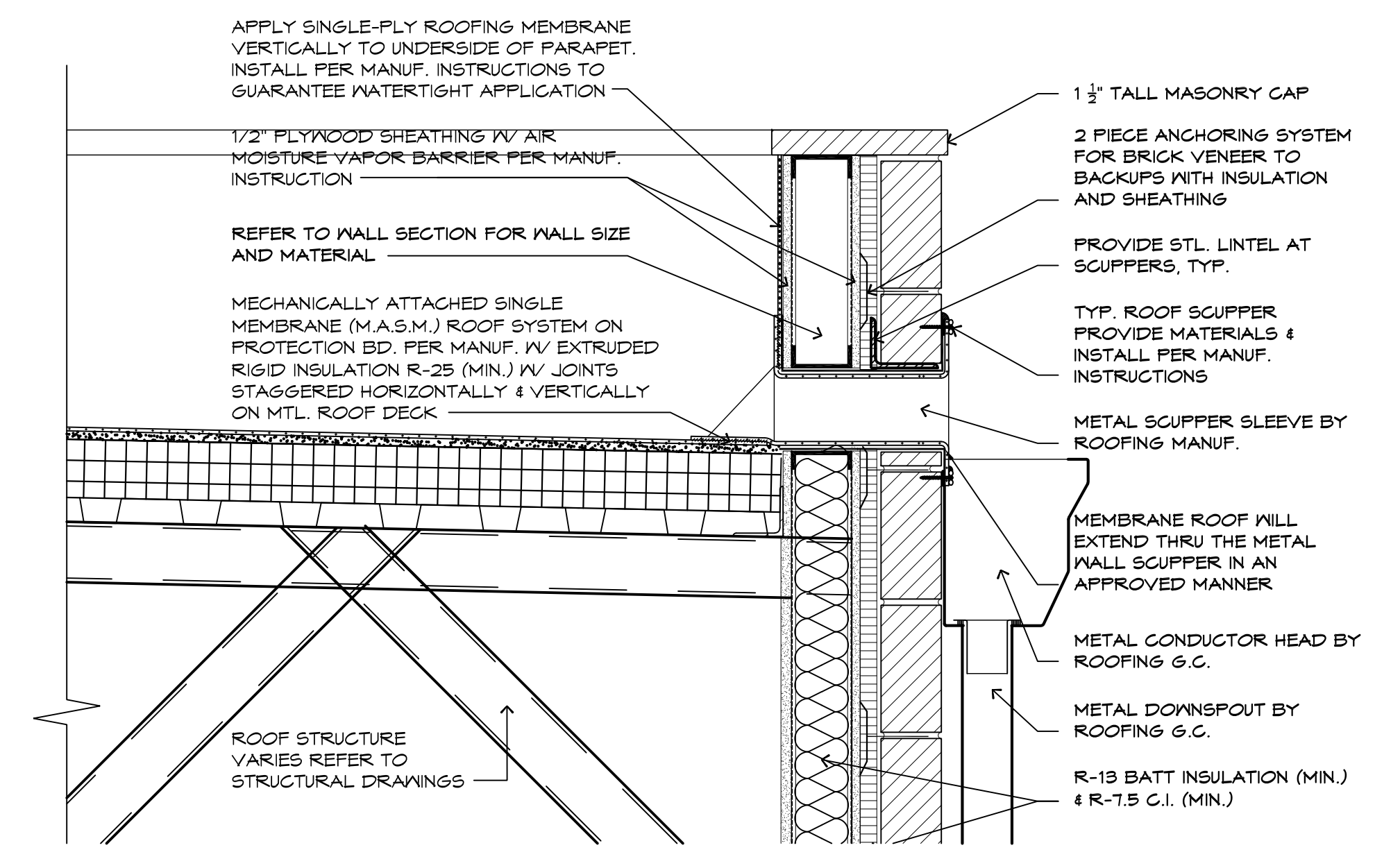
DR
D. R. REYNOLDS COMPANY, INC.
103 GREEN FARM ROAD
STAR, NORTH CAROLINA 27386
(910) 428-4380

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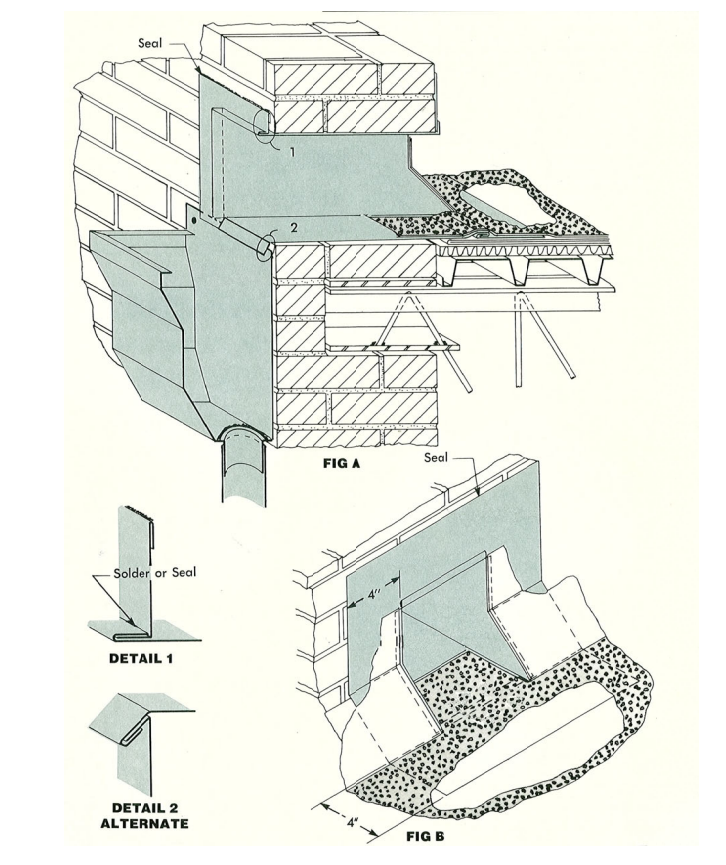
CONCORD FIRE STATION NO. 6
DAVID DISTRICT - NEW FACILITY
CONCORD, NC
ROOF PLAN & DETAILS

REVISION SCHEDULE		
NO.	DATE	REFERENCE

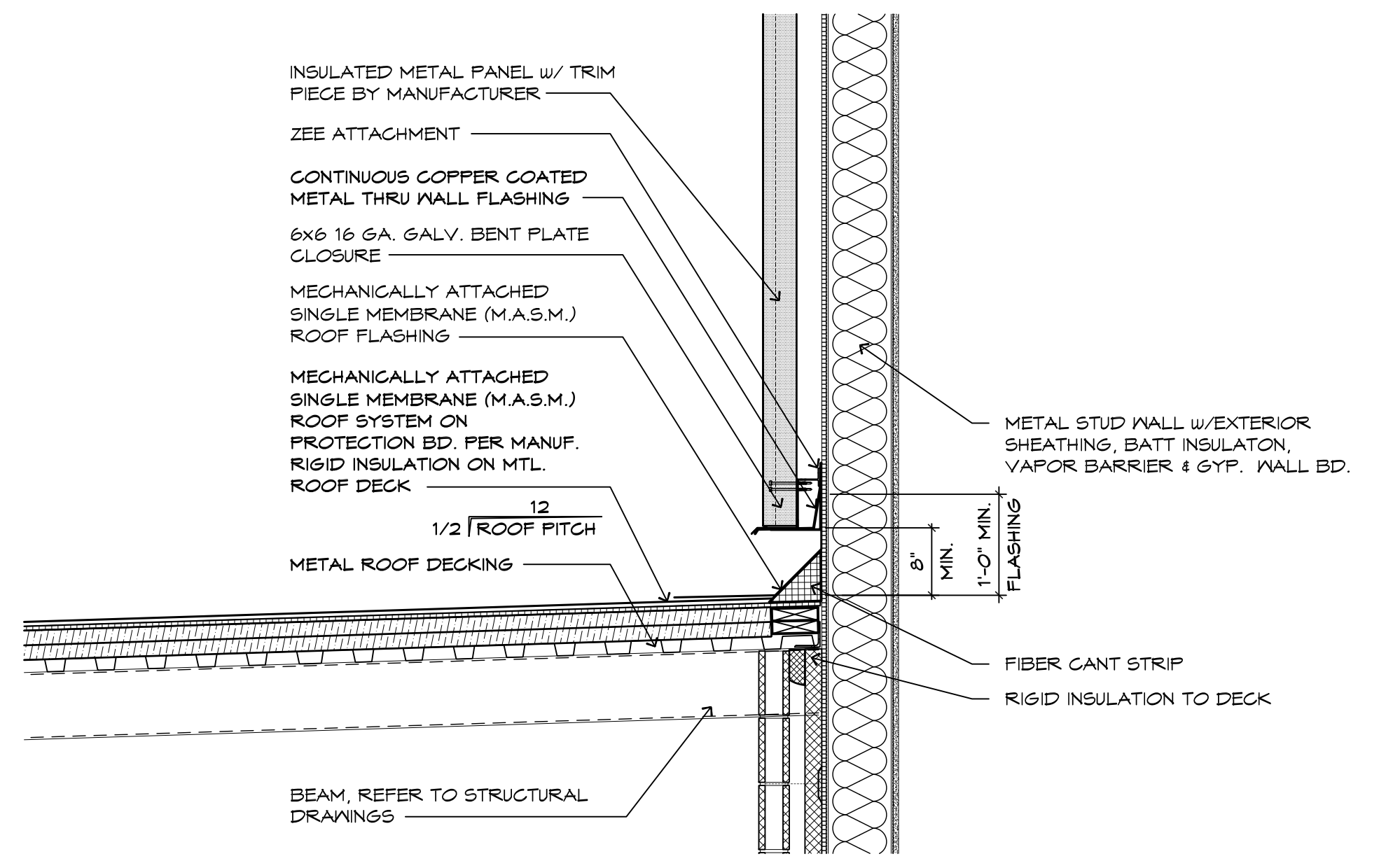
A3.1



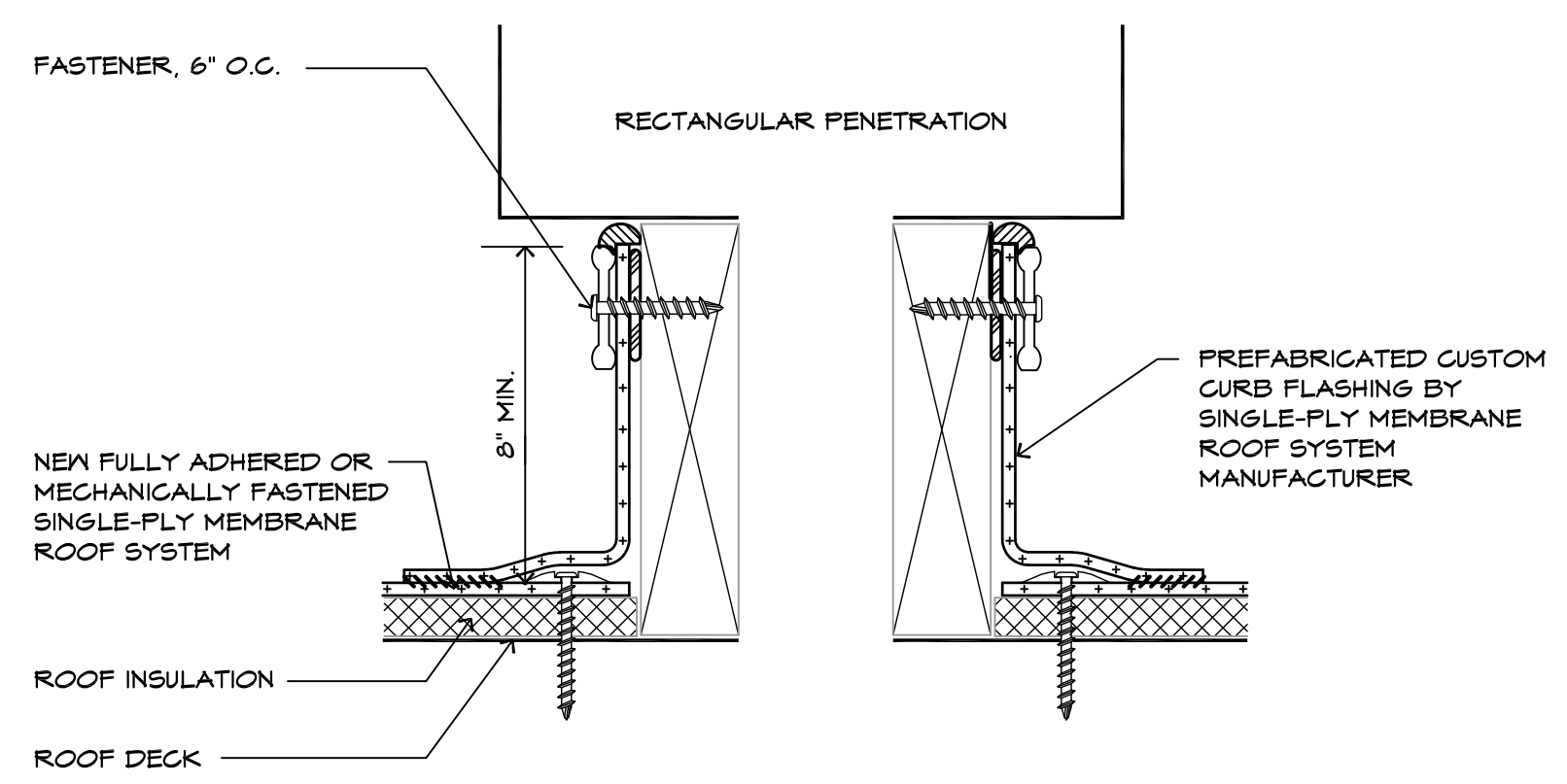
5 ENLARGED SCUPPER DETAIL
A3.1 SCALE: 1 1/2"=1'-0"



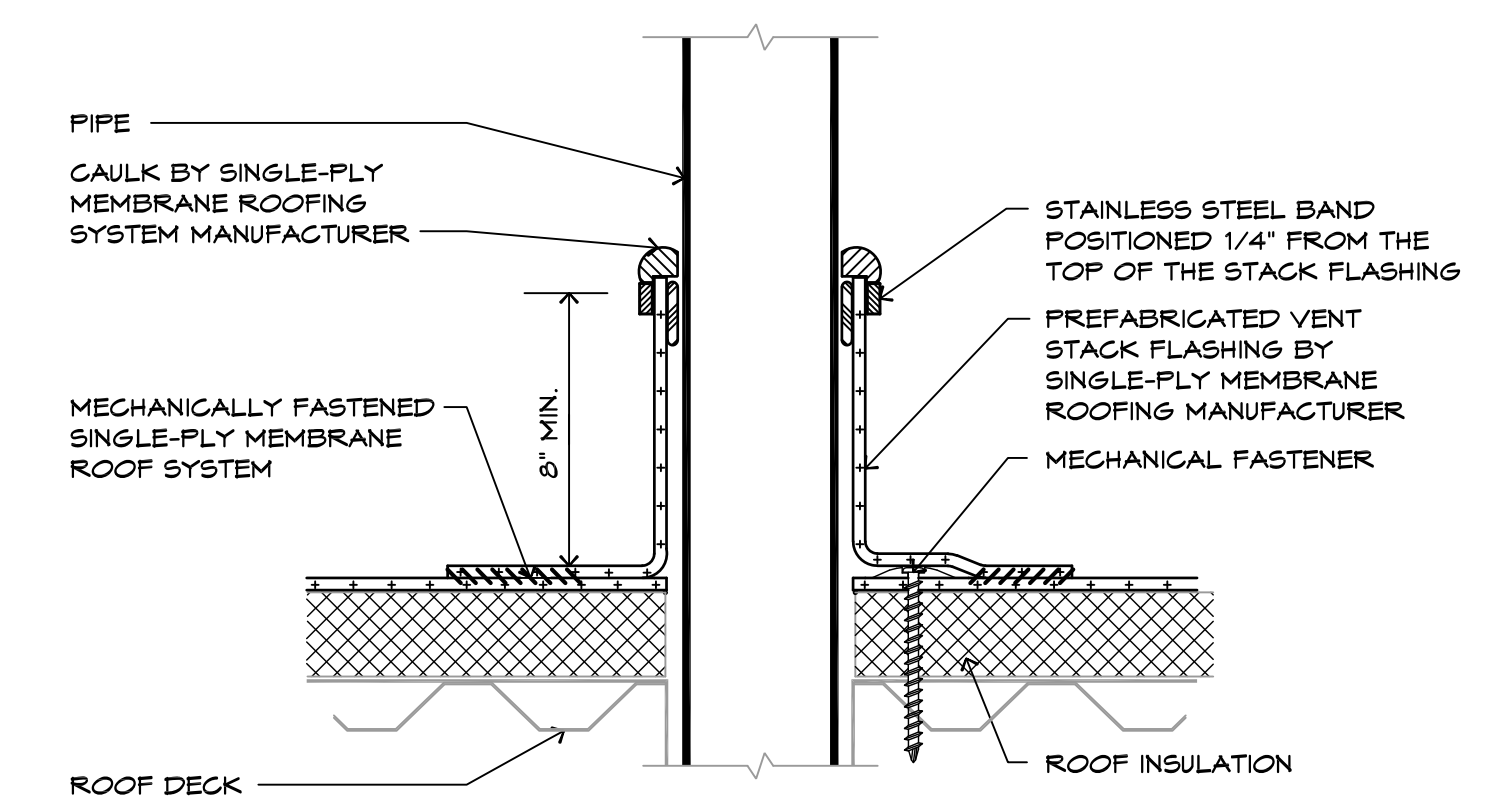
6 CONDUCTOR HEAD & SCUPPER DETAIL
A3.1 SCALE: N.T.S.



4 ENLARGED DETAIL
A3.1 SCALE: 3/4"=1'-0"



3 ROOF PENETRATION DETAIL
A3.1 NO SCALE



2 ROOF PENETRATION DETAIL
A3.1 NO SCALE

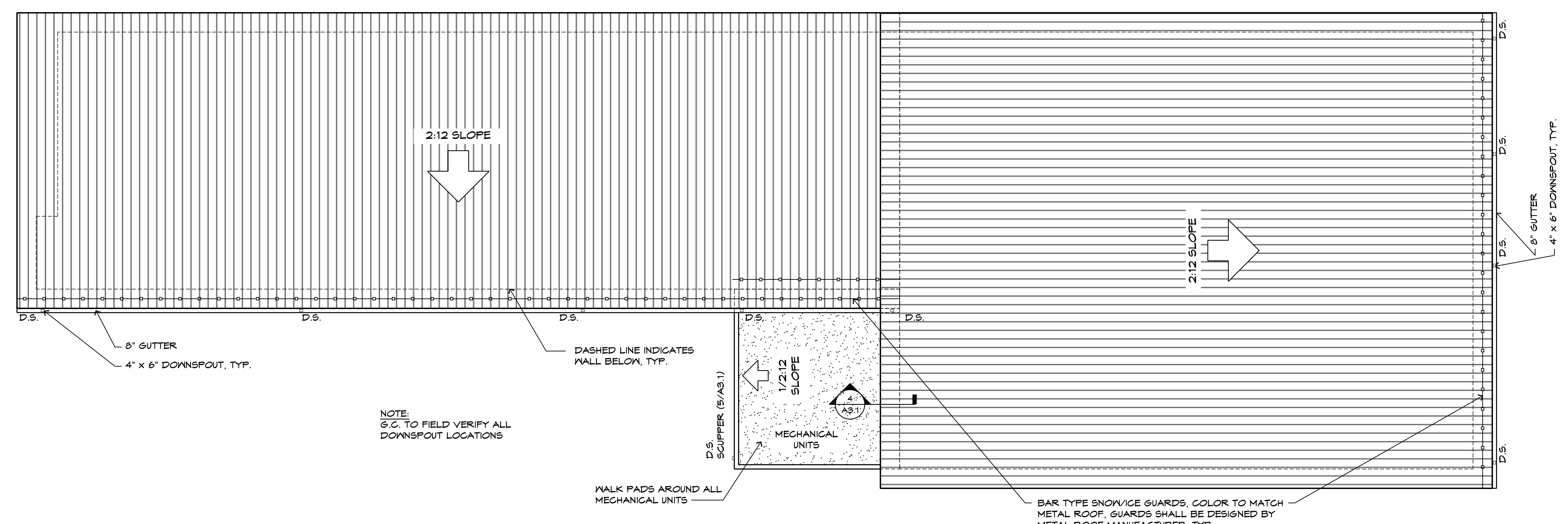
NOTE:
1. ROOFING CONTRACTOR TO PROVIDE CRICKETS/SADDLES TO UPSLOPE SIDES OF ALL ROOF TOP EQUIPMENT TO ENSURE POSITIVE DRAINAGE.
2. OPENINGS REQUIRED FOR MECHANICAL, ELECTRICAL AND PLUMBING ARE SHOWN ONLY FOR INFORMATION PURPOSES. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS TO CONFIRM EXACT LOCATIONS.
3. ALL ROOF PENETRATIONS WILL HAVE FACTORY PREPARED FLASHING BOOTS AND WILL BE FLASHED BY THE ROOFER.
4. ALL DOWNSPOUT DRAINS TO BE CONNECTED TO LEADER SYSTEM TO ENABLE WATER TO BE CARRIED AWAY FROM BUILDING EXCEPT WHERE DRAINED THROUGH CURB. REFER TO CIVIL DRAWINGS.

KEY

	SINGLE PLY MEMBRANE ROOFING
	METAL ROOF SHEETING

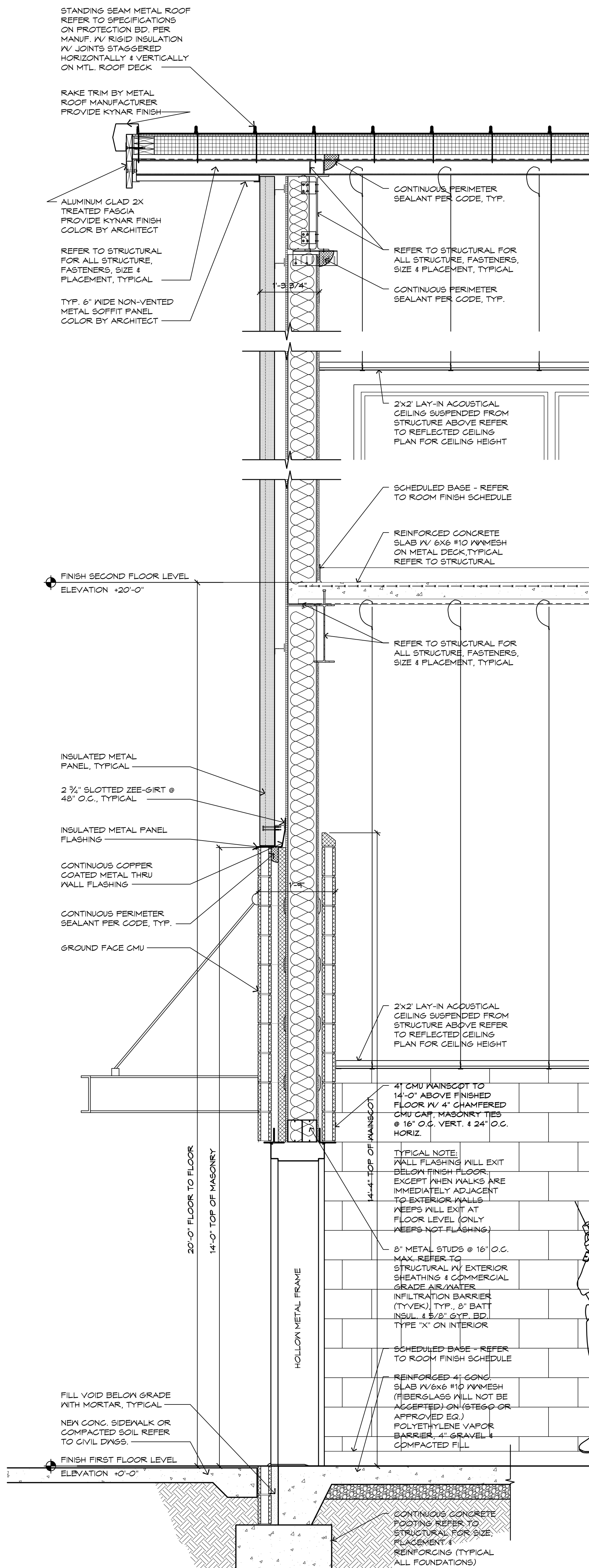
ABBREVIATIONS

D.S.	DOWNSPOUT
------	-----------

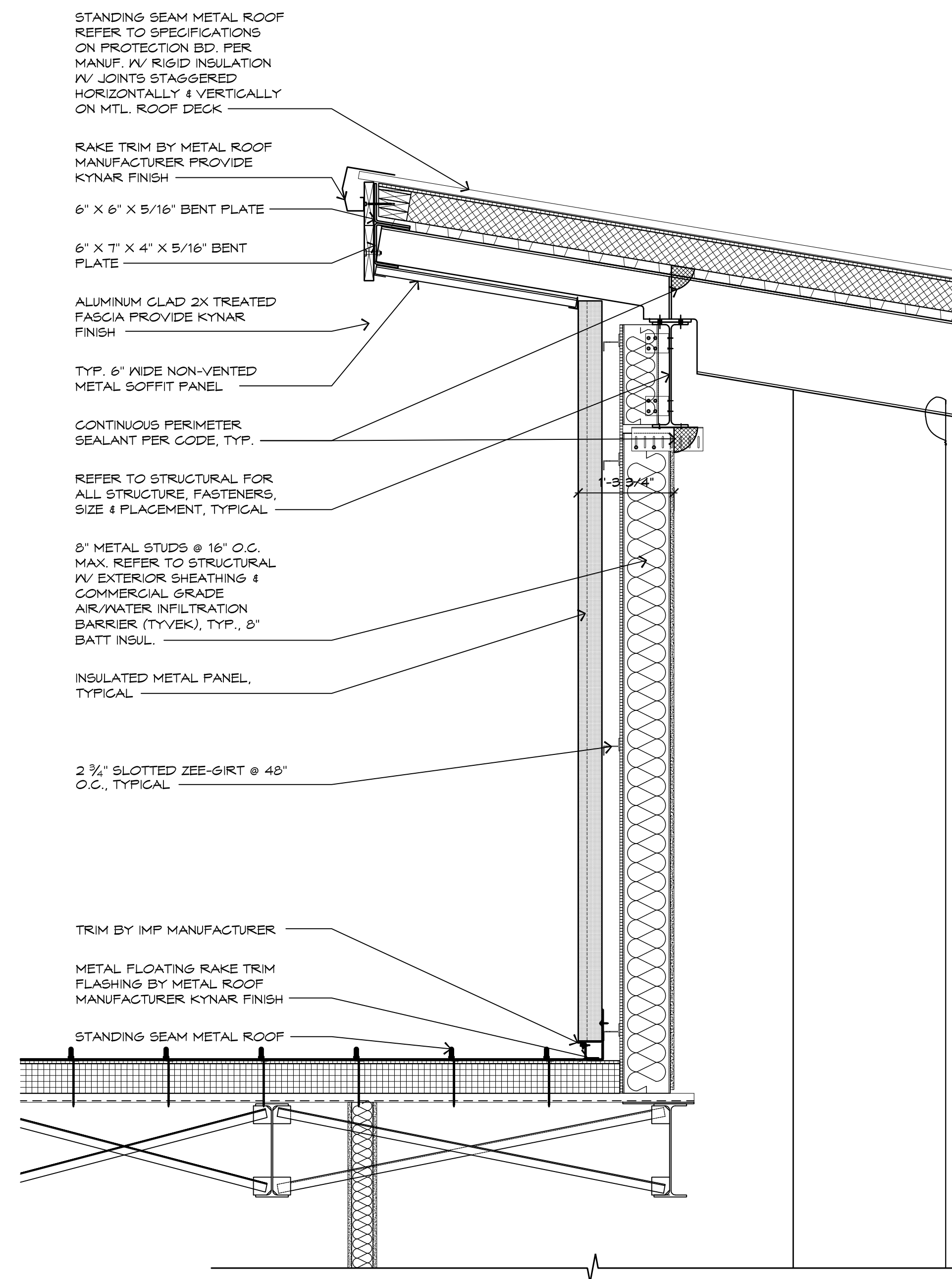


1 ROOF PLAN
A3.1 SCALE: 3/32"=1'-0"

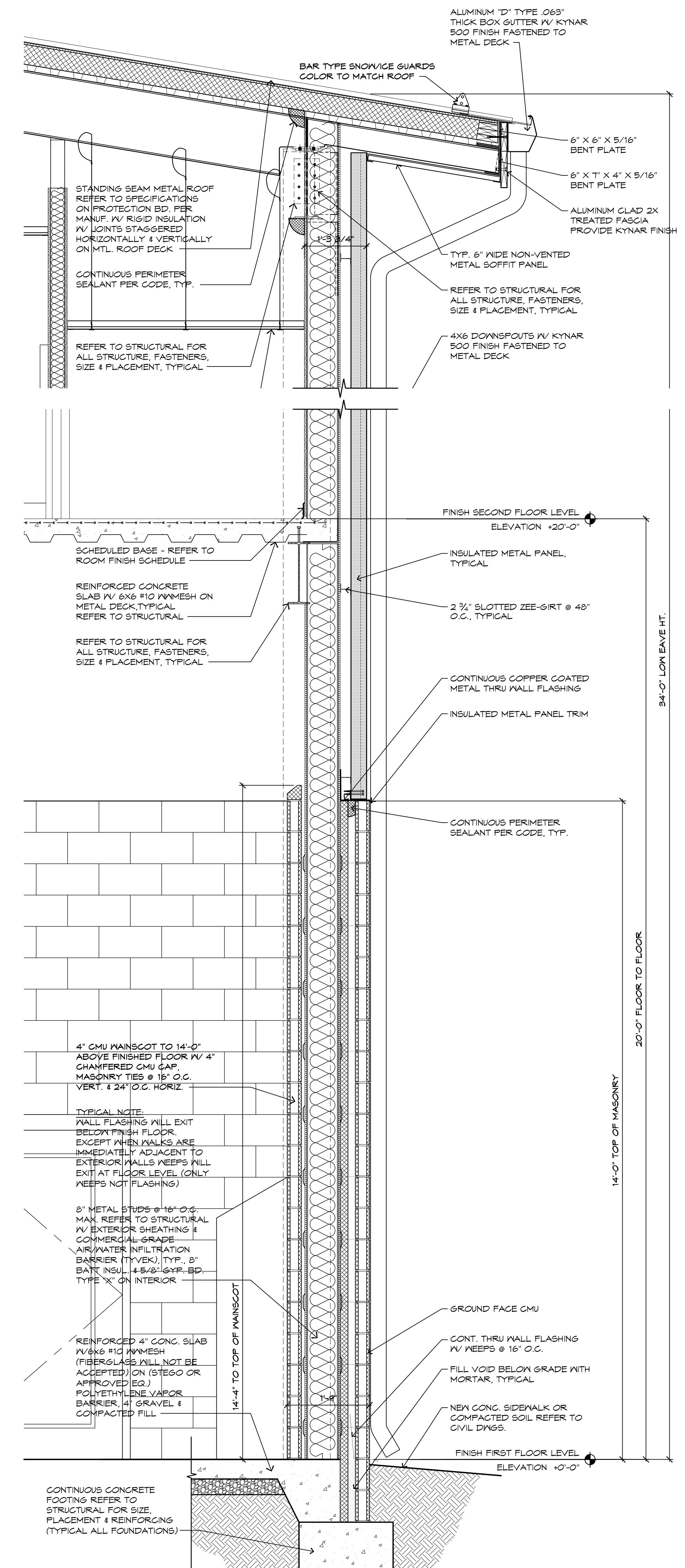
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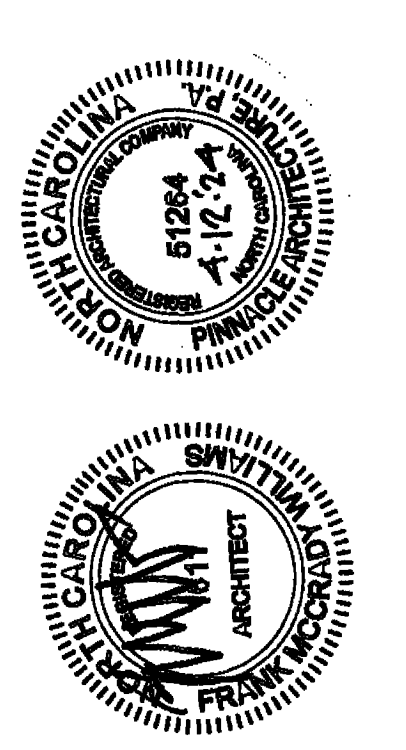
3 WALL SECTION
A4.1 SCALE: 3/4"=1'-0"



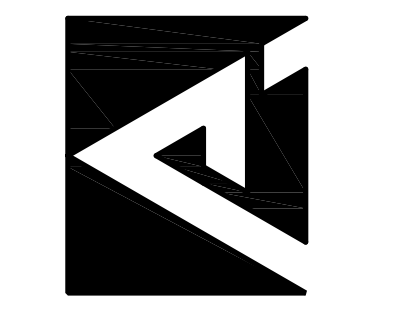
2 WALL SECTION
A4.1 SCALE: 3/4"=1'-0"



1 WALL SECTION
A4.1 SCALE: 3/4"=1'-0"



PINNACLE ARCHITECTURE
PROFESSIONAL ASSOCIATION
700 EAST BAY STREET, SUITE 300
CHARLESTON, SOUTH CAROLINA 29403
PH: (803) 851-5345 FAX: (803) 921-9514



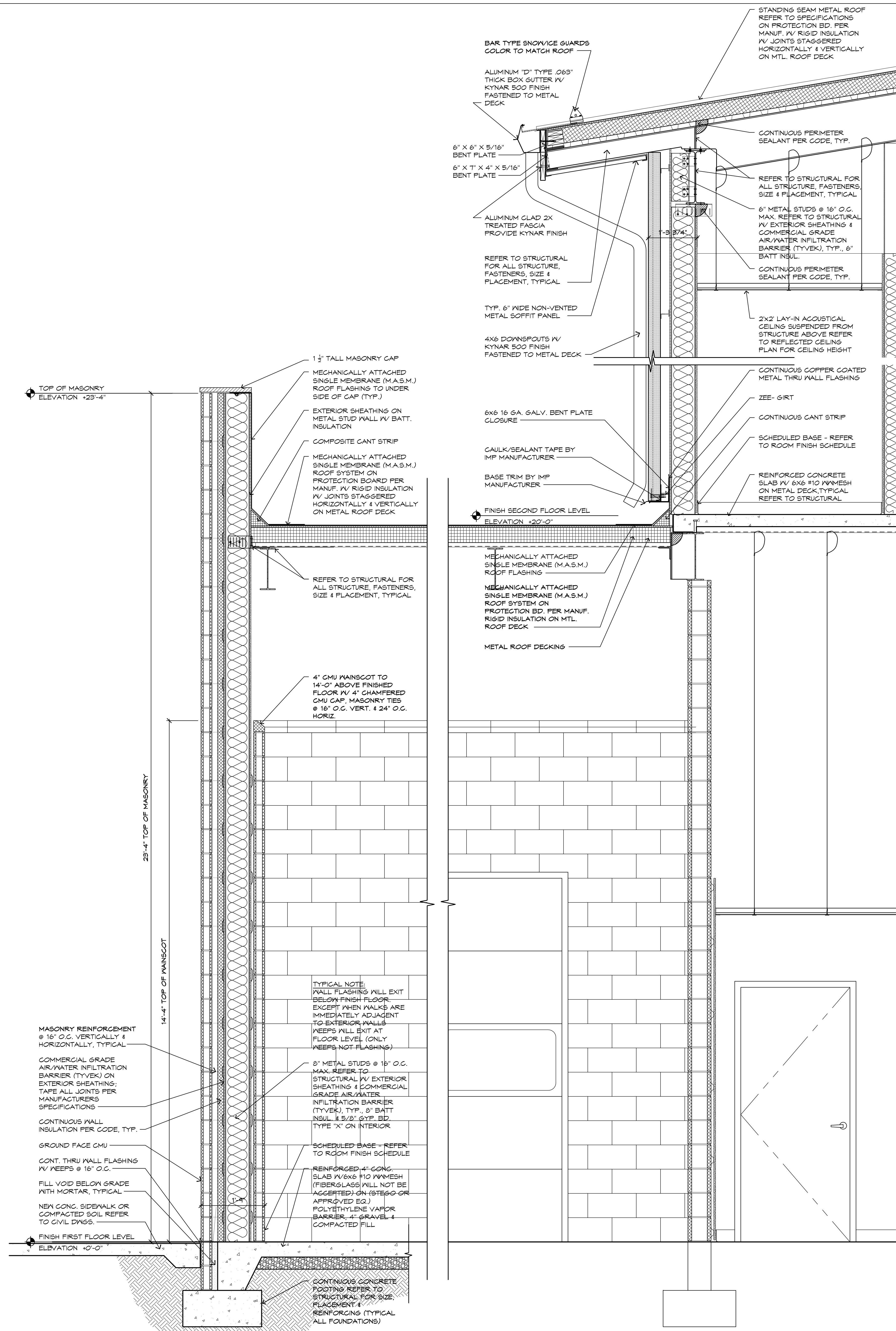
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1705 GREENE FARM ROAD
STAR, NORTH CAROLINA 27386
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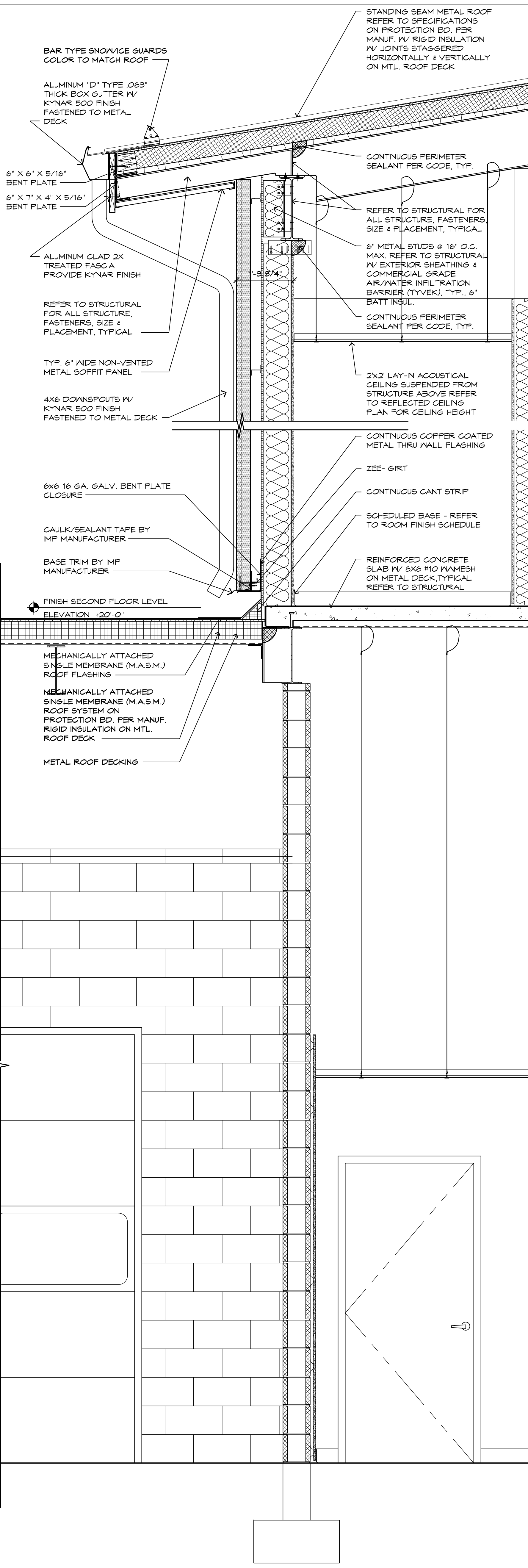
CONCORD FIRE STATION NO. 6
DAVID DISTRICT - NEW FACILITY
CONCORD, NC
WALL SECTIONS

REVISION SCHEDULE		
NO.	DATE	REFERENCE

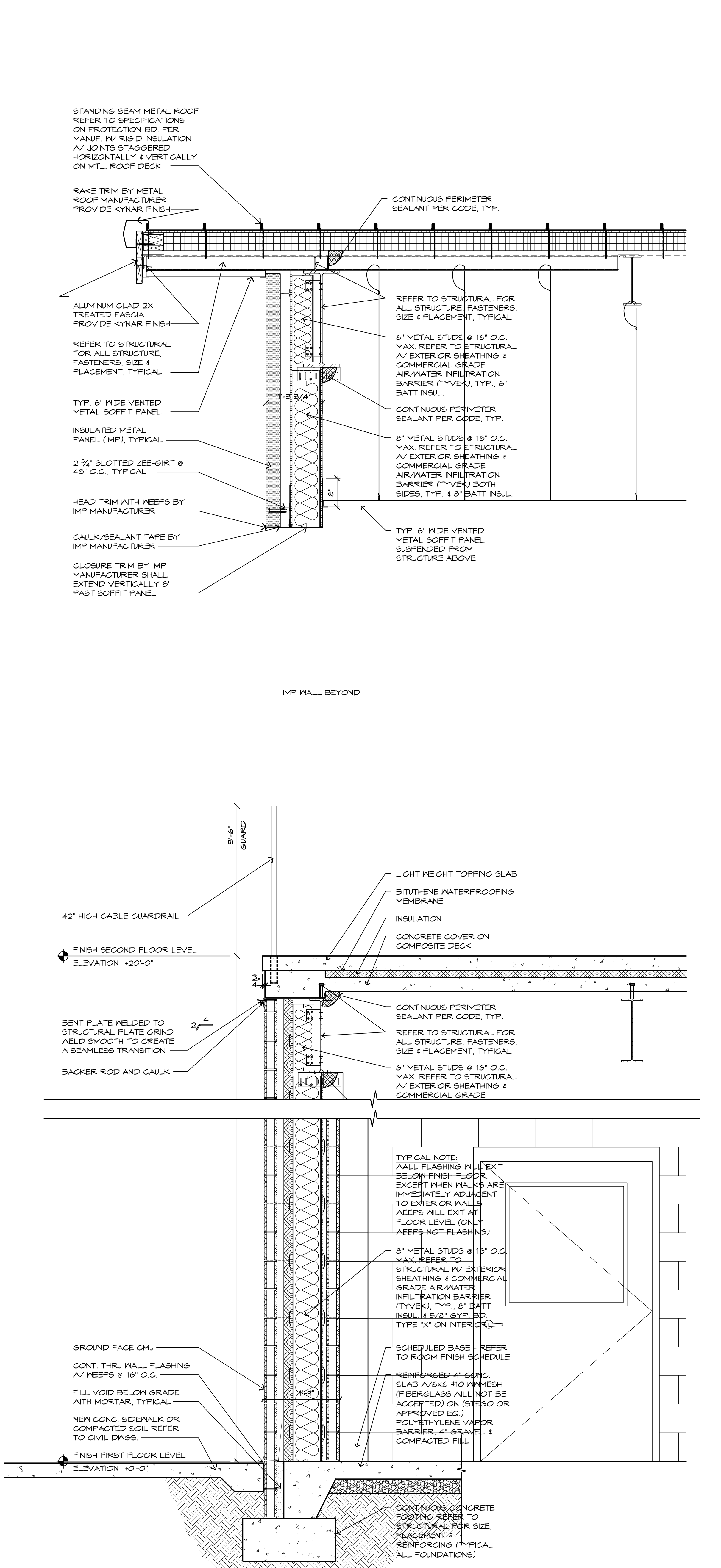
A4.1



3 WALL SECTION
A4.2 SCALE: 3/4"=1'-0"



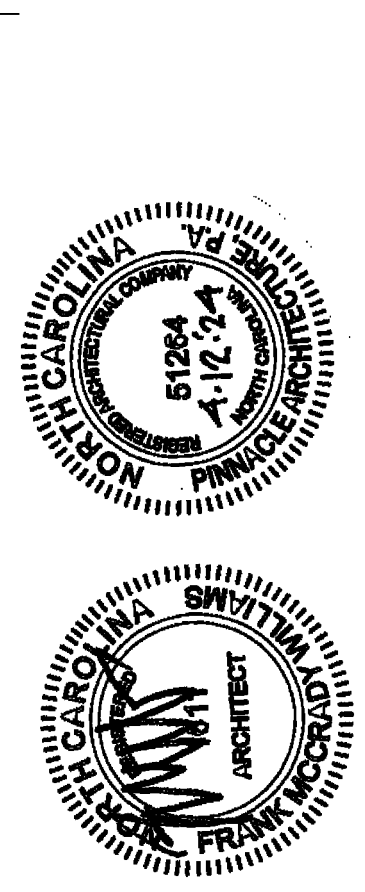
2 WALL SECTION
A4.2 SCALE: 3/4"=1'-0"



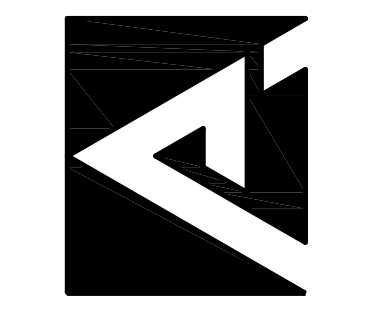
1 WALL SECTION
A4.2 SCALE: 3/4"=1'-0"

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CONTRACTOR TO VERIFY ALL DIMENSIONS.



PINNACLE ARCHITECTURE
 PROFESSIONAL ASSOCIATION
 700 EAST BAY STREET, SUITE 300
 MATTHEWS, NORTH CAROLINA 28106
 PH: (704) 847-9333 FAX: (704) 847-9331



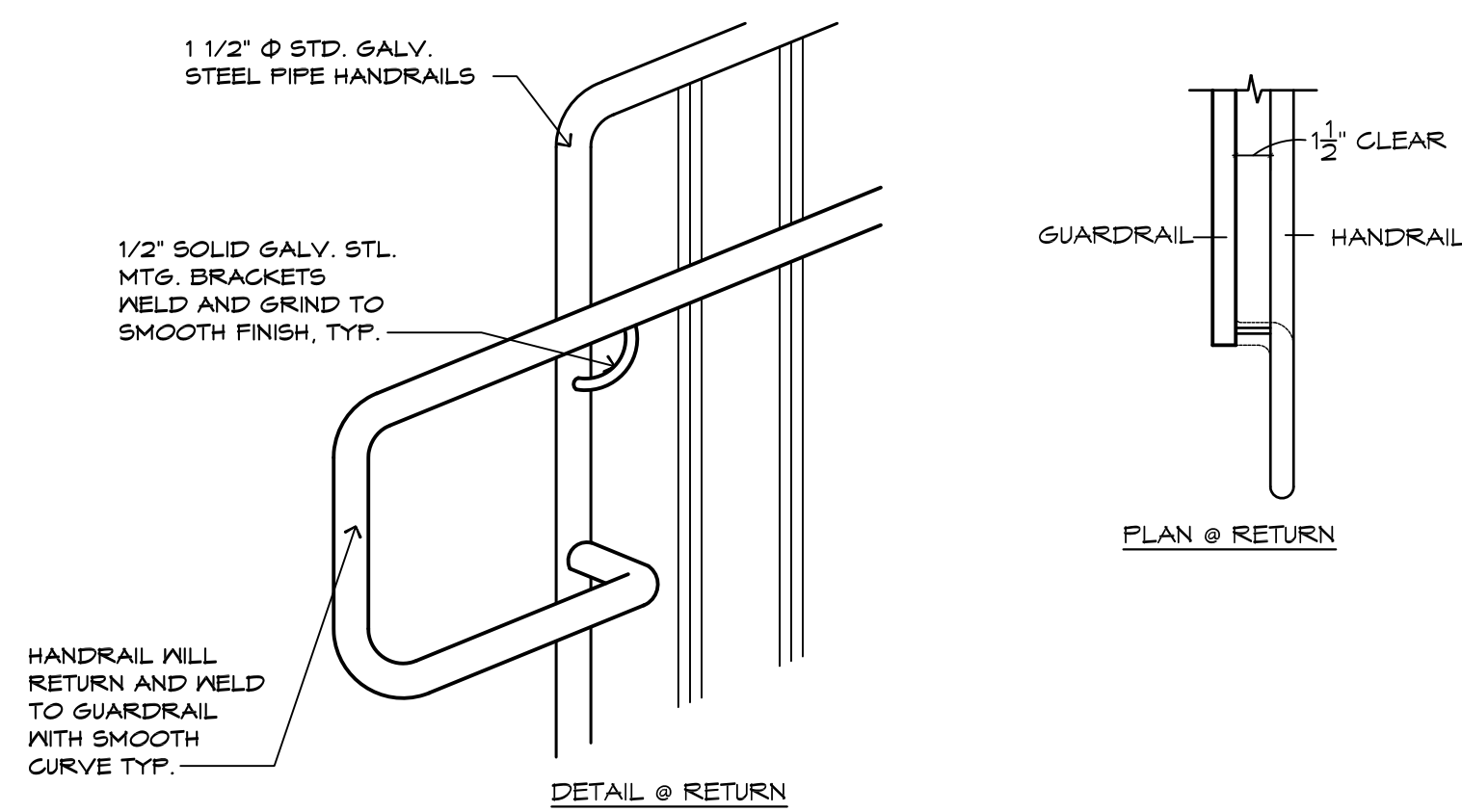
D.R. REYNOLDS COMPANY, INC.
 103 GREENE FARM ROAD
 STAR, NORTH CAROLINA 27586
 (910) 428-4380

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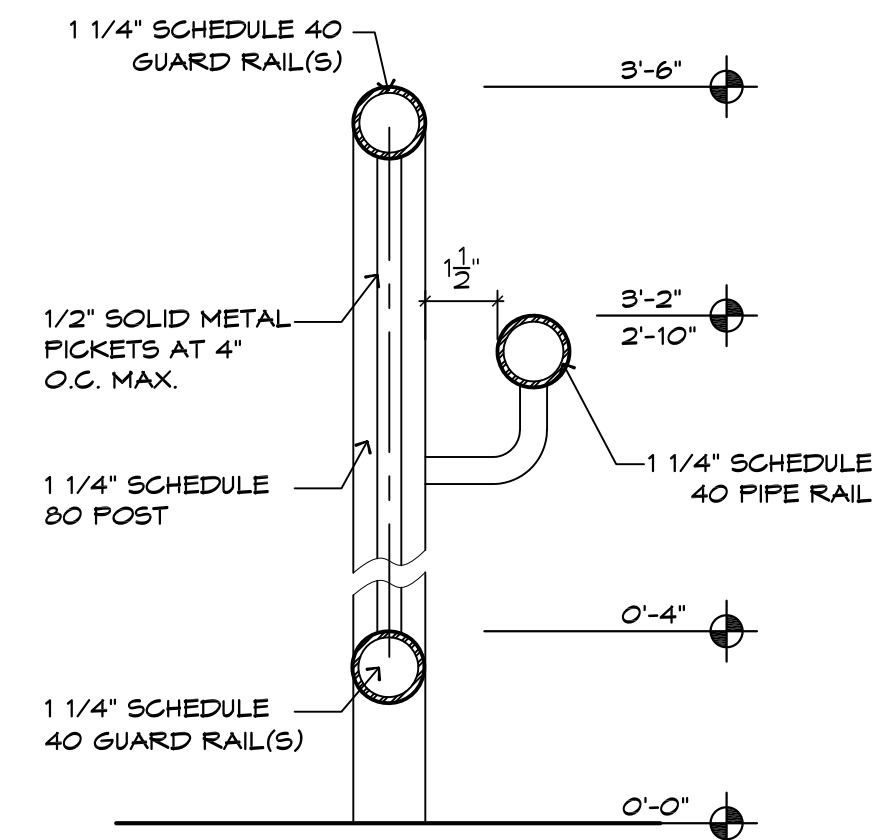
CONCORD FIRE STATION NO. 6
DAVID DISTRICT - NEW FACILITY
CONCORD, NC
WALL SECTIONS

REVISION SCHEDULE	
NO.	DATE

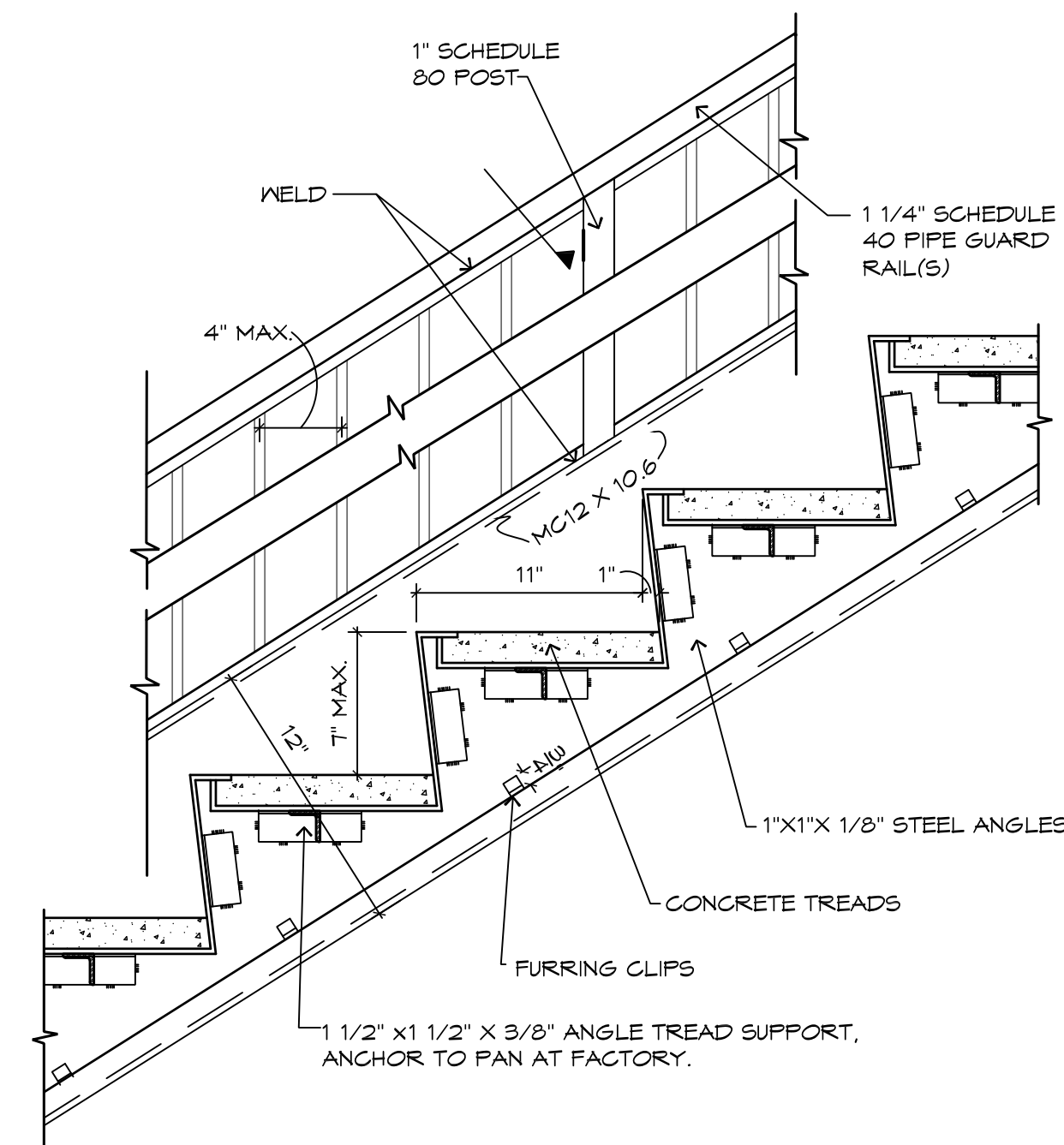
A4.2



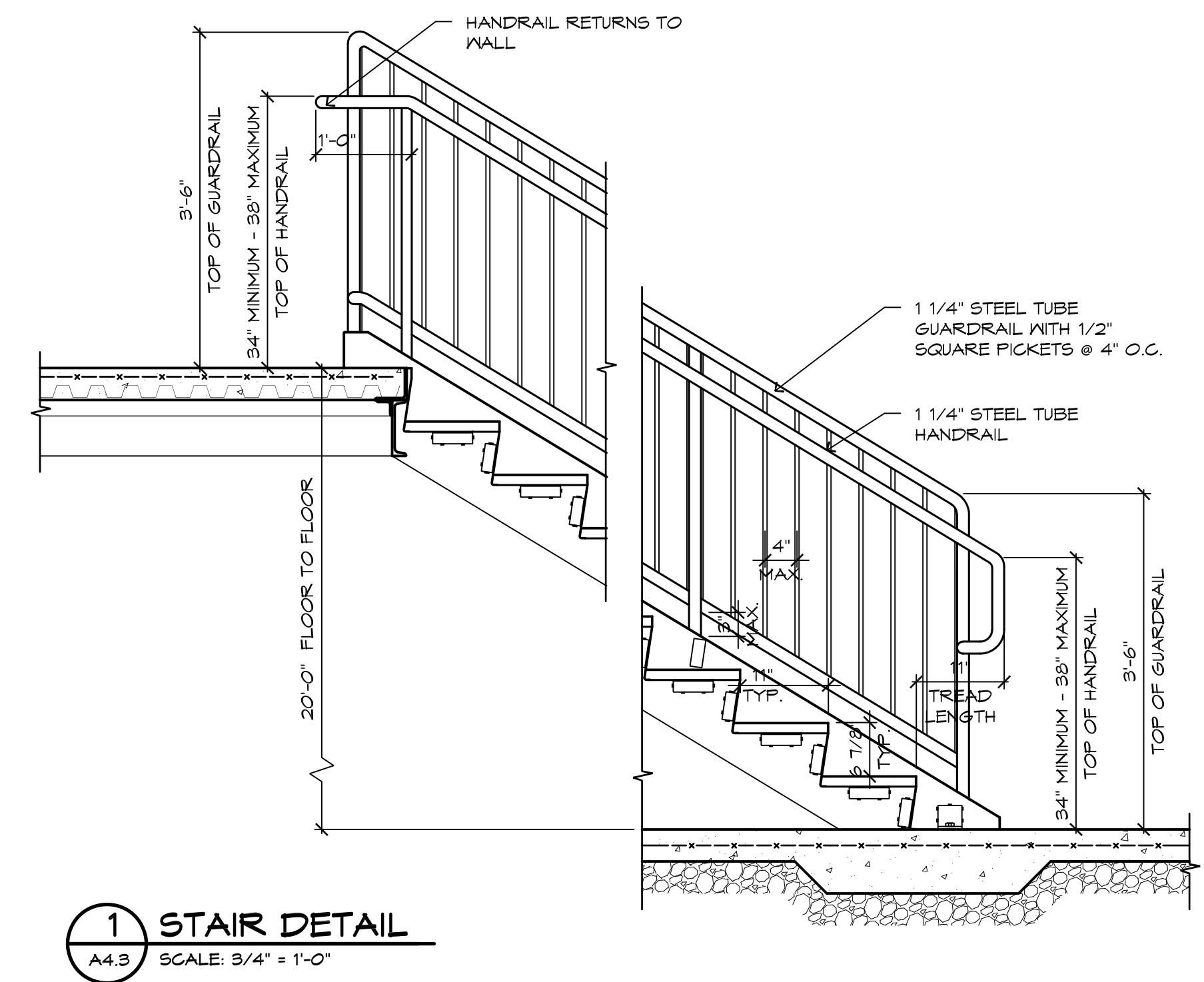
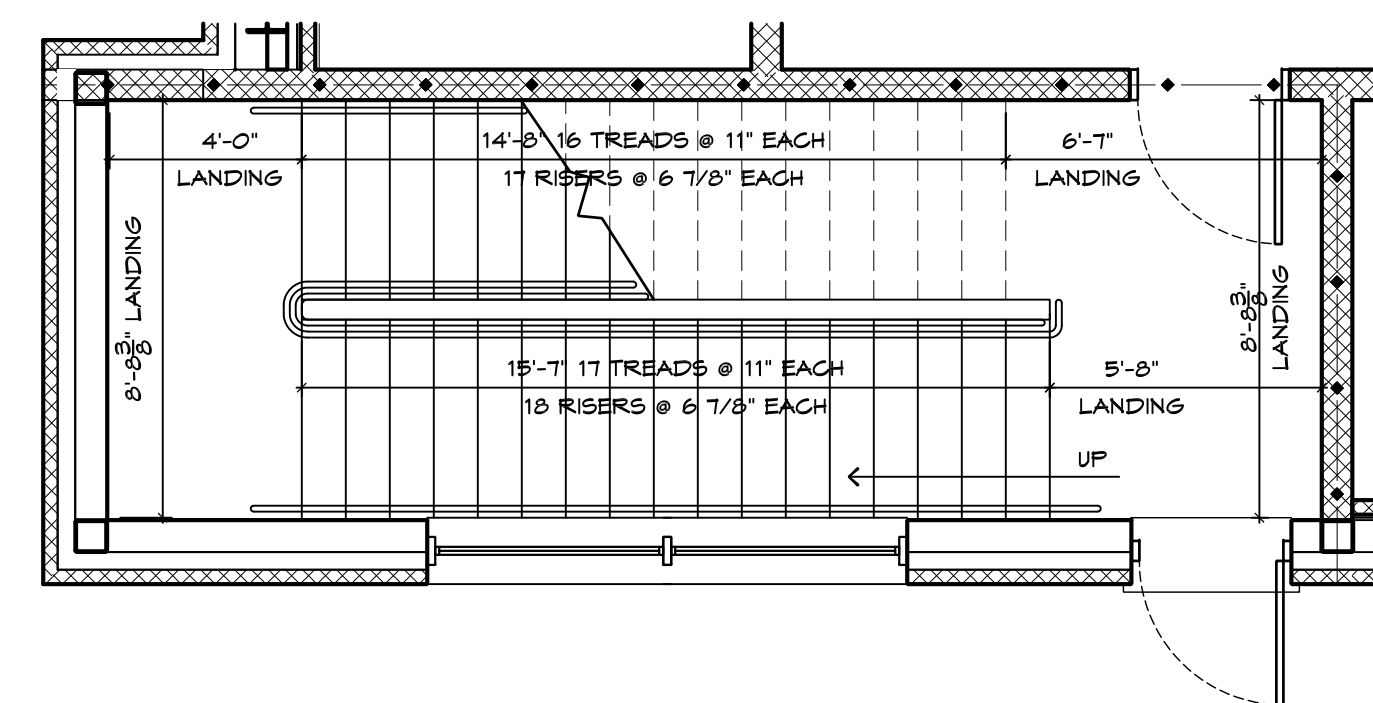
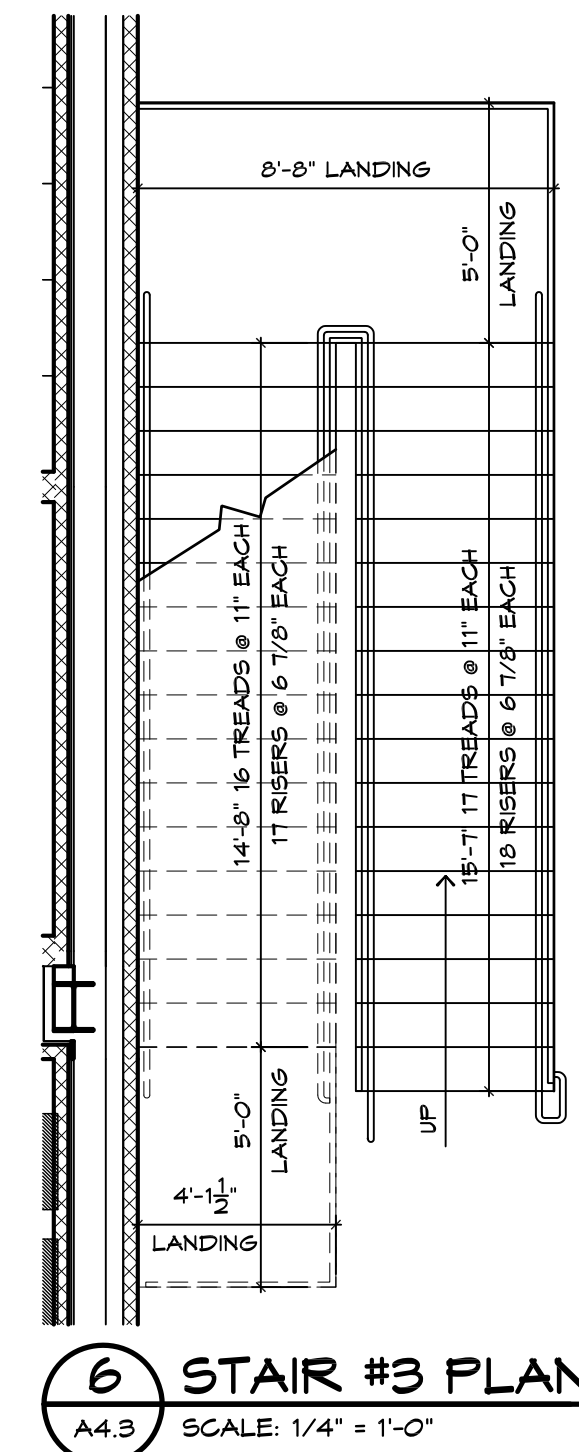
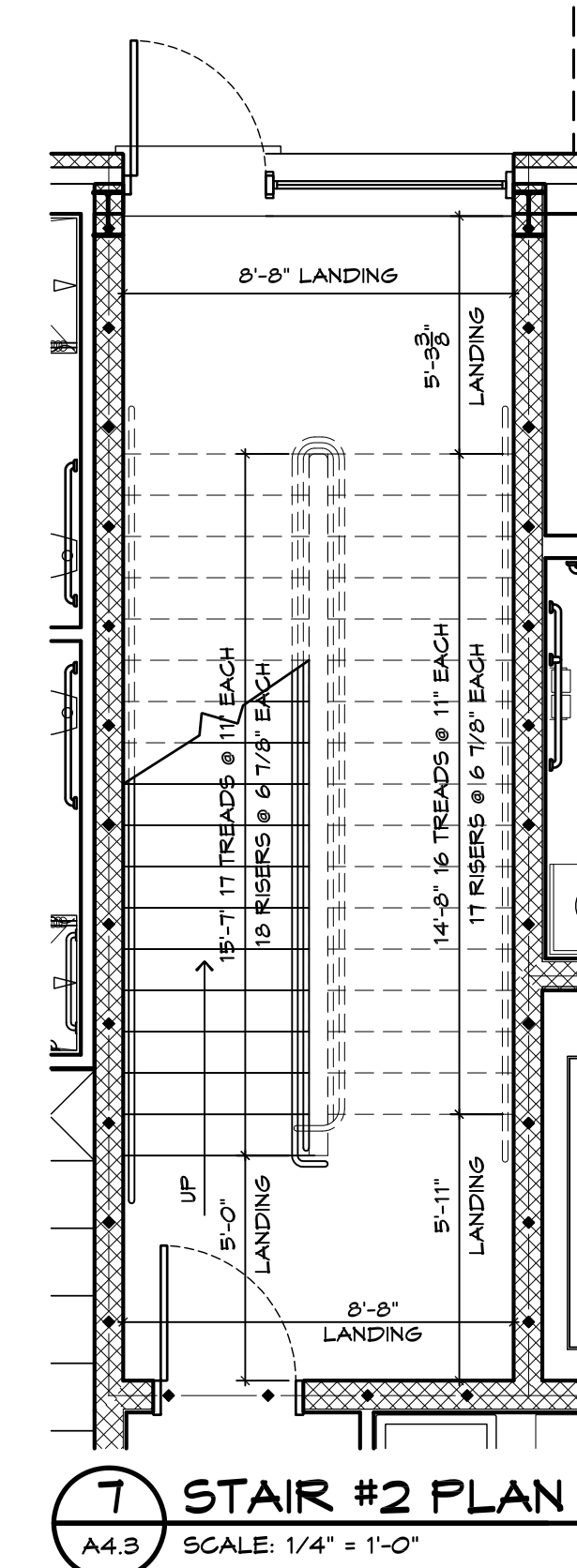
4 TYPICAL RAILING DETAIL
A4.3 SCALE: 3" = 1'-0"



3 TYPICAL RAILING DETAIL
A4.3 SCALE: 3" = 1'-0"



2 TYPICAL DETAILS
A4.3 SCALE: 1 1/2" = 1'-0"



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**CONCORD FIRE STATION NO. 6
DAVID DISTRICT - NEW FACILITY
CONCORD, NC**

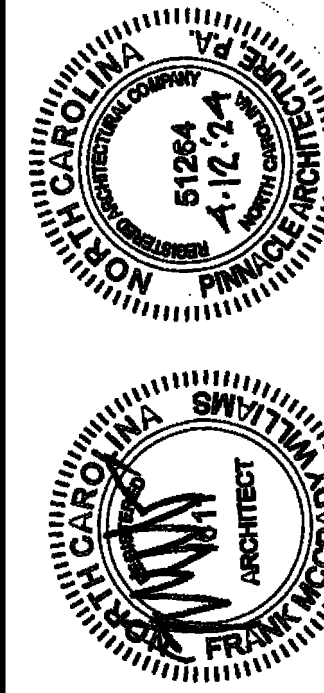
STAIR PLANS, SECTIONS & DETAILS

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NO.	DATE

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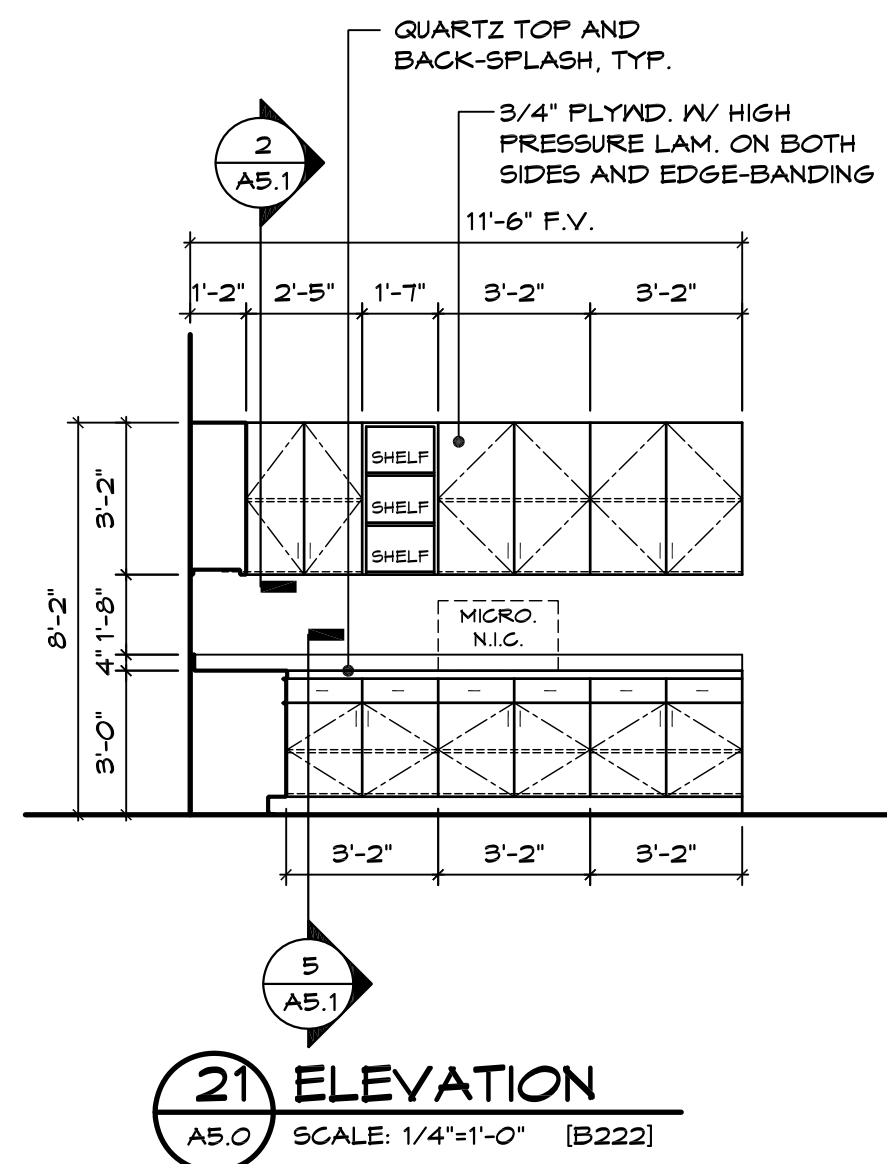
DRR
D. R. REYNOLDS COMPANY, INC.
103 GREENE FARM ROAD
STAR, NORTH CAROLINA 27386
(910) 428-1380

**PINNACLE ARCHITECTURE
PROFESSIONAL ASSOCIATION**
P.O. BOX 163, SOUTHWEST ROAD, SUITE 200
MATTHEWS, NORTH CAROLINA 28106
PH: (817) 851-3545 FAX: (817) 851-3544

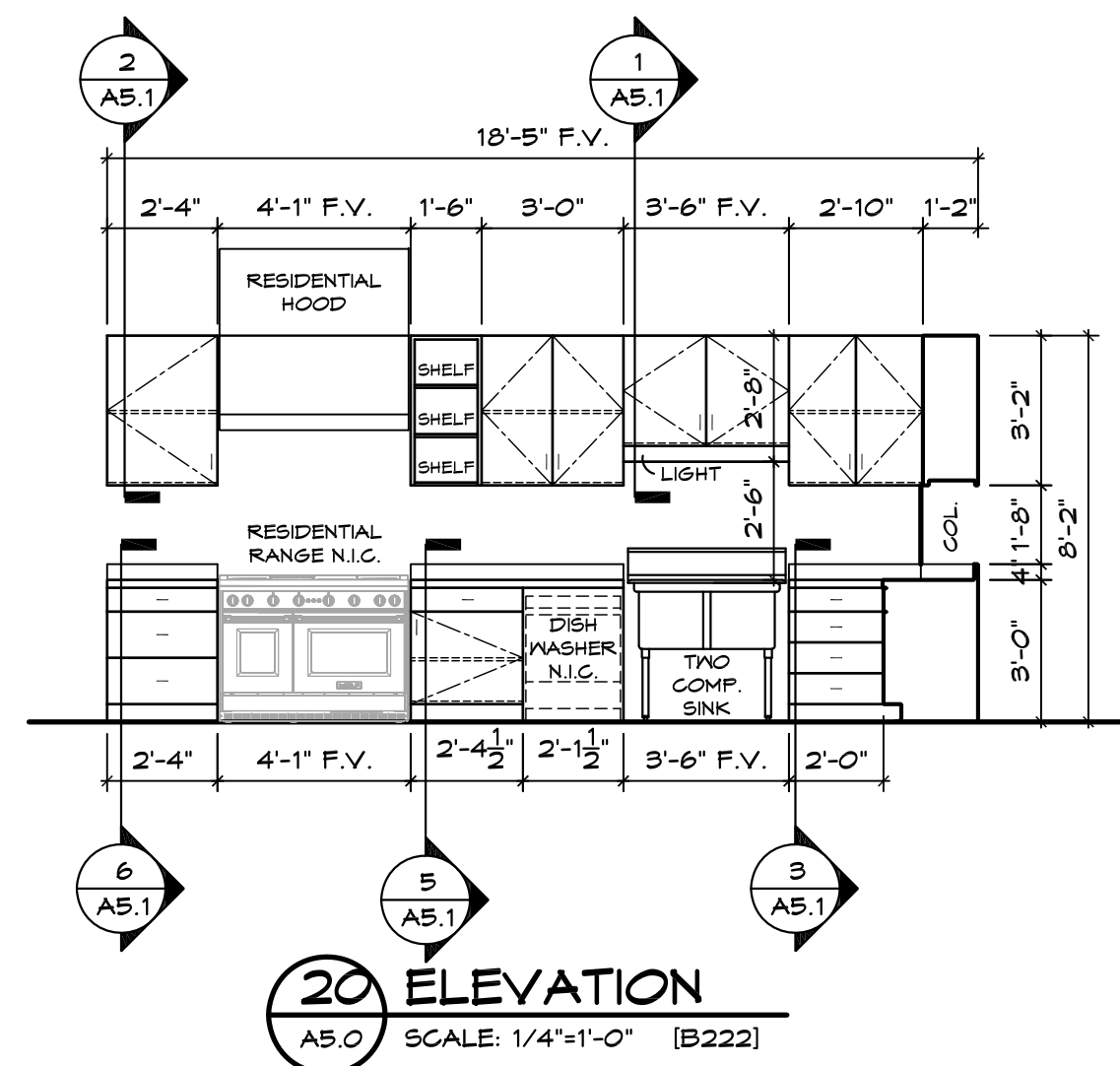


CONTRACTOR TO VERIFY ALL DIMENSIONS

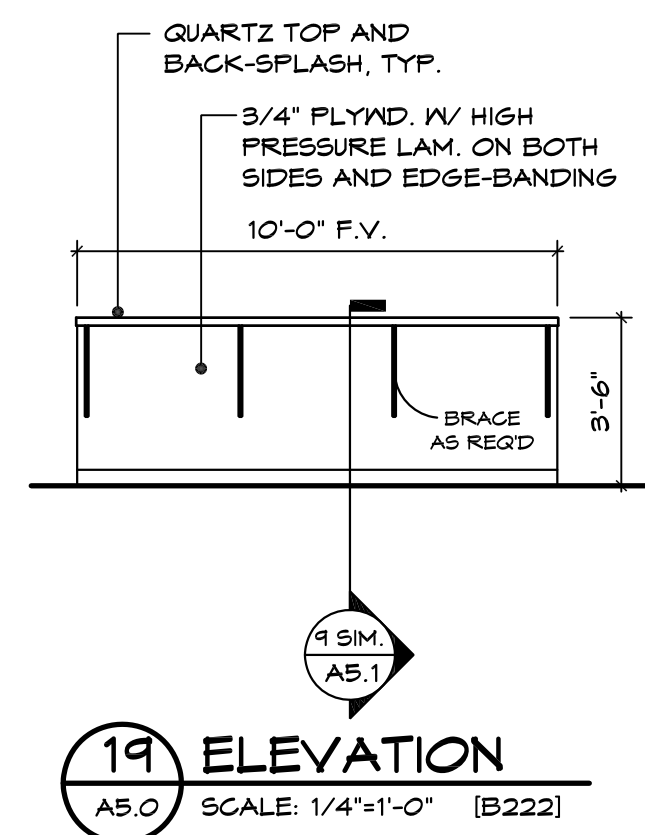
A4.3



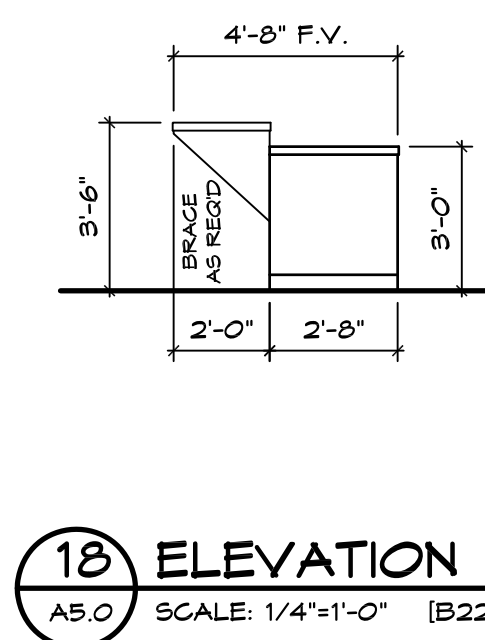
21 ELEVATION
AS.0 SCALE: 1/4"=1'-0" [B222]



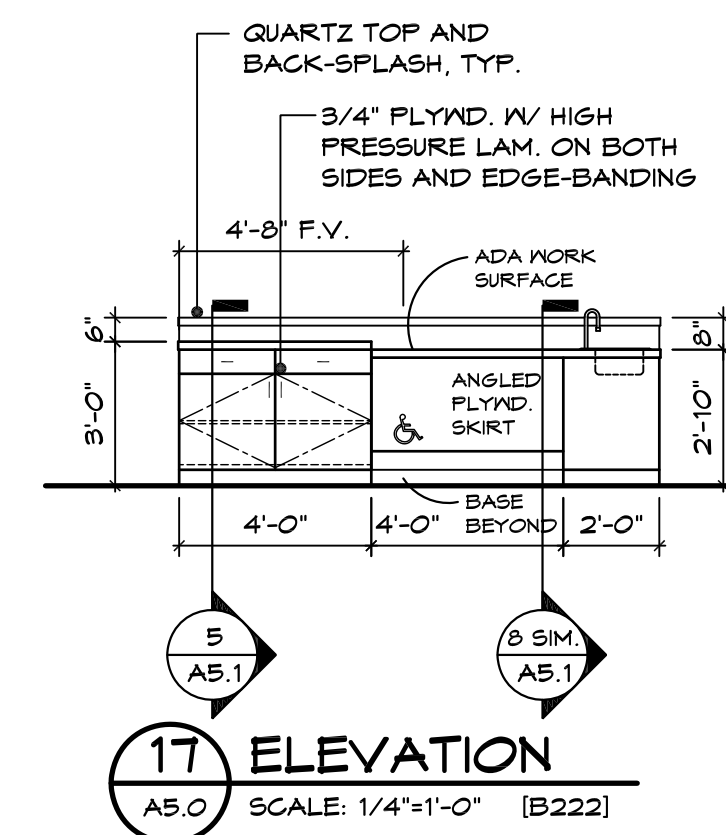
20 ELEVATION
AS.0 SCALE: 1/4"=1'-0" [B222]



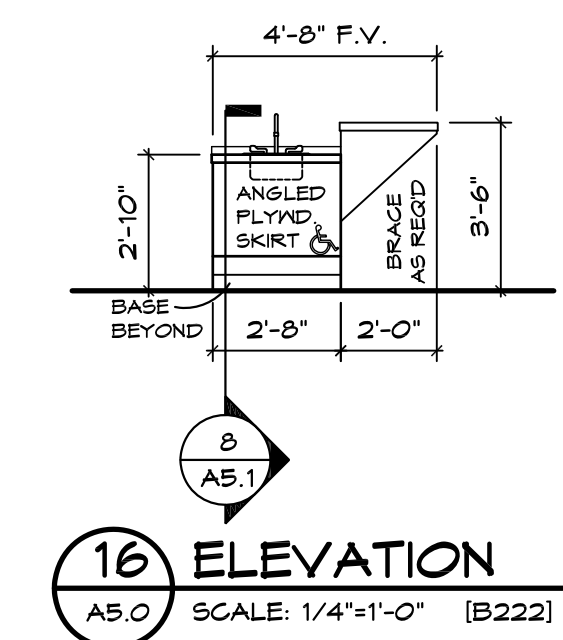
19 ELEVATION
AS.0 SCALE: 1/4"=1'-0" [B222]



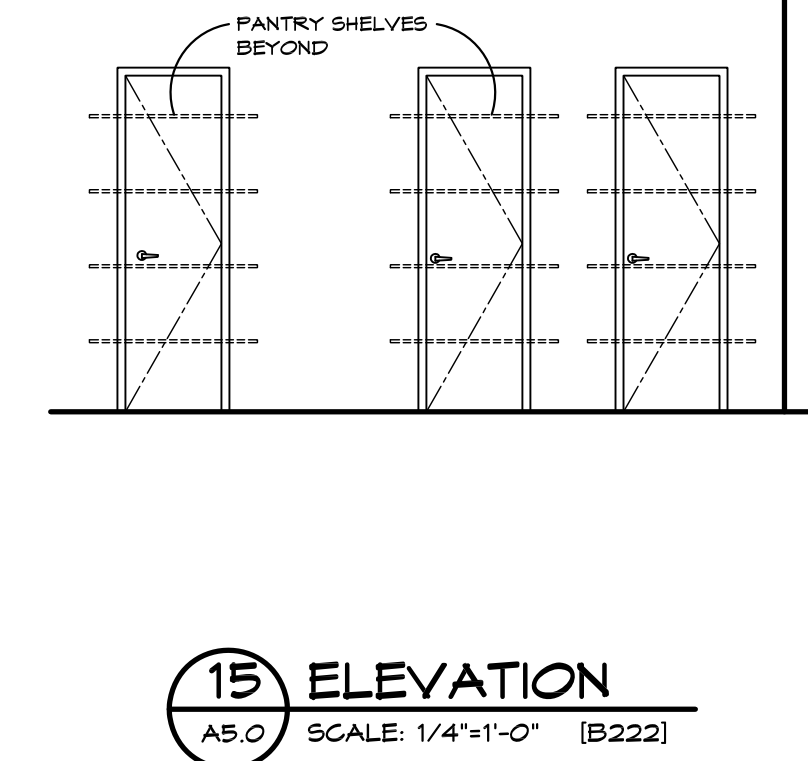
18 ELEVATION
AS.0 SCALE: 1/4"=1'-0" [B222]



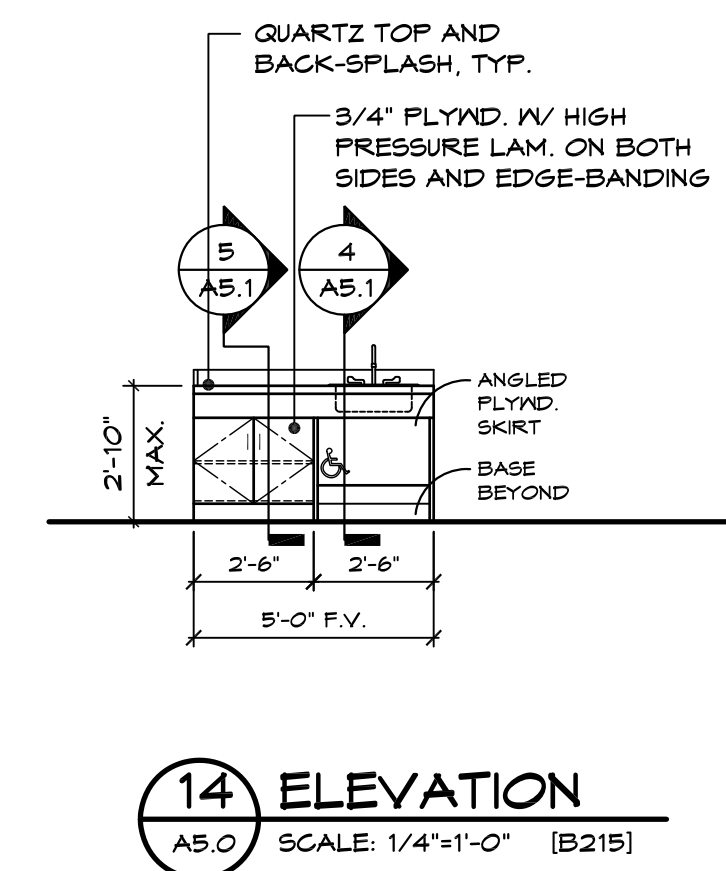
17 ELEVATION
AS.0 SCALE: 1/4"=1'-0" [B222]



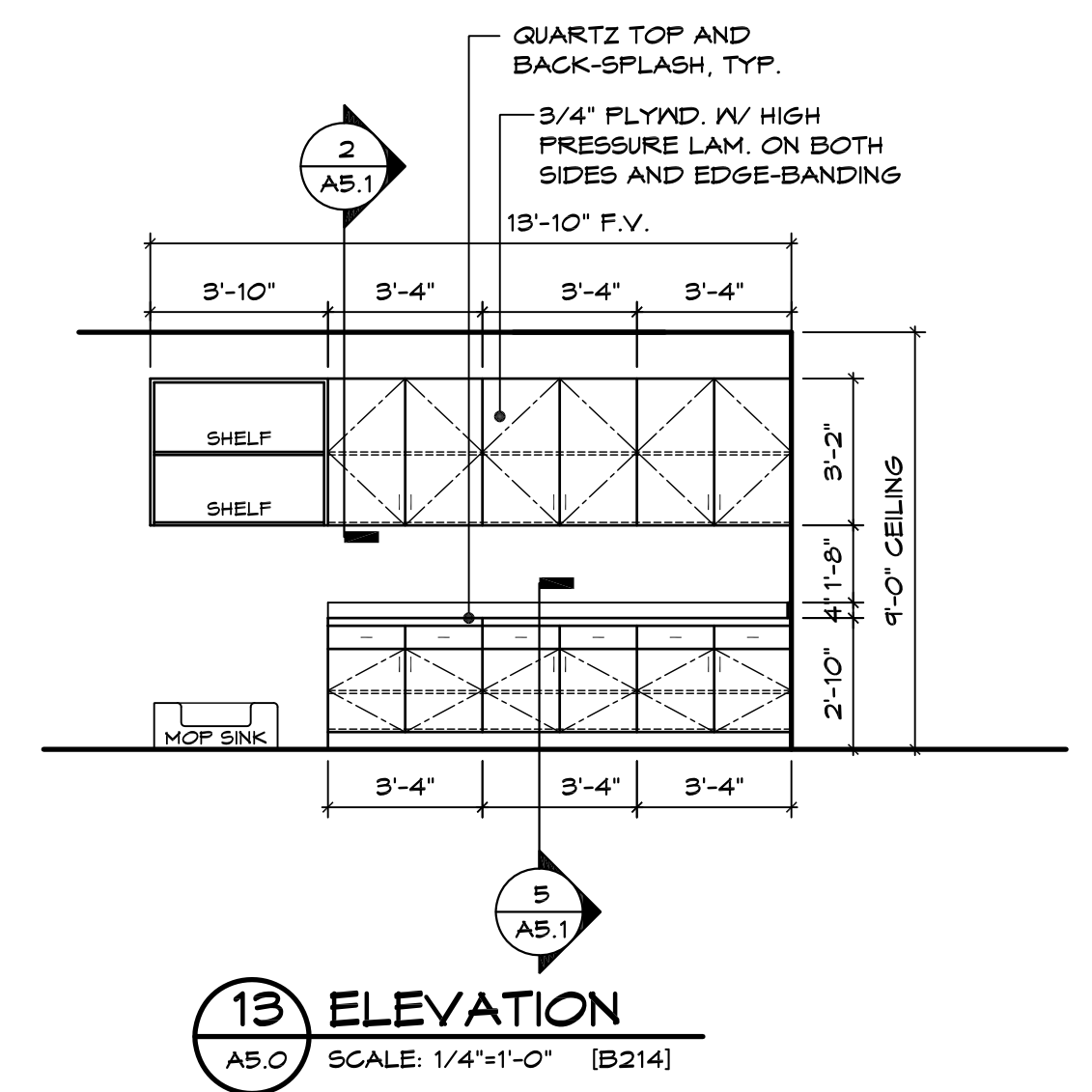
16 ELEVATION
AS.0 SCALE: 1/4"=1'-0" [B222]



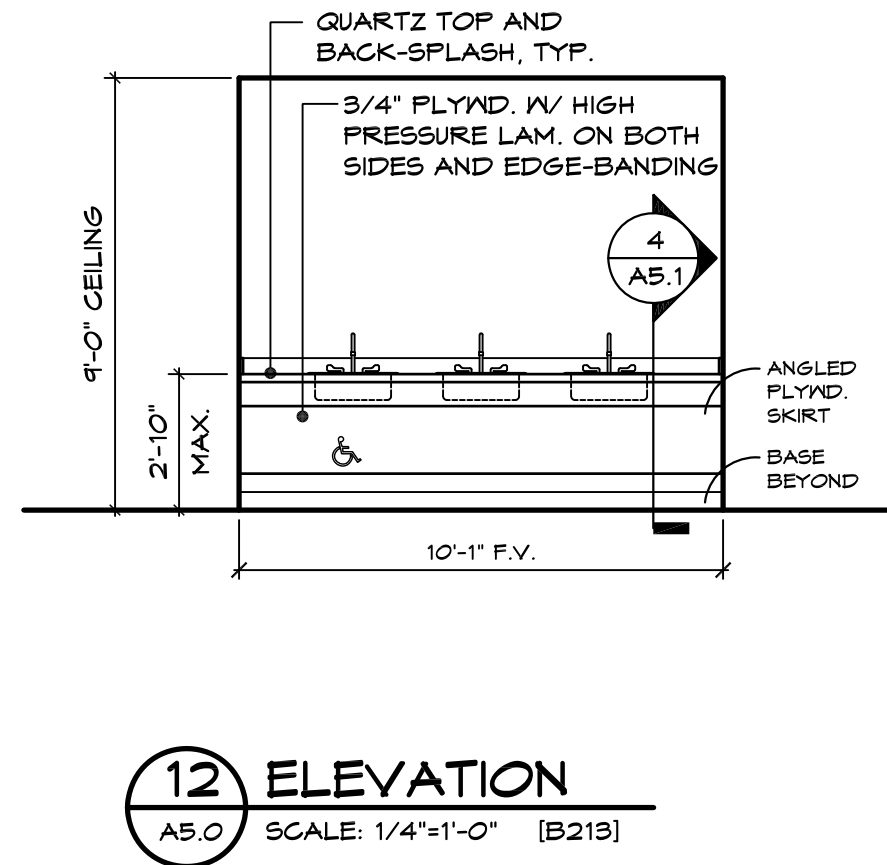
15 ELEVATION
AS.0 SCALE: 1/4"=1'-0" [B222]



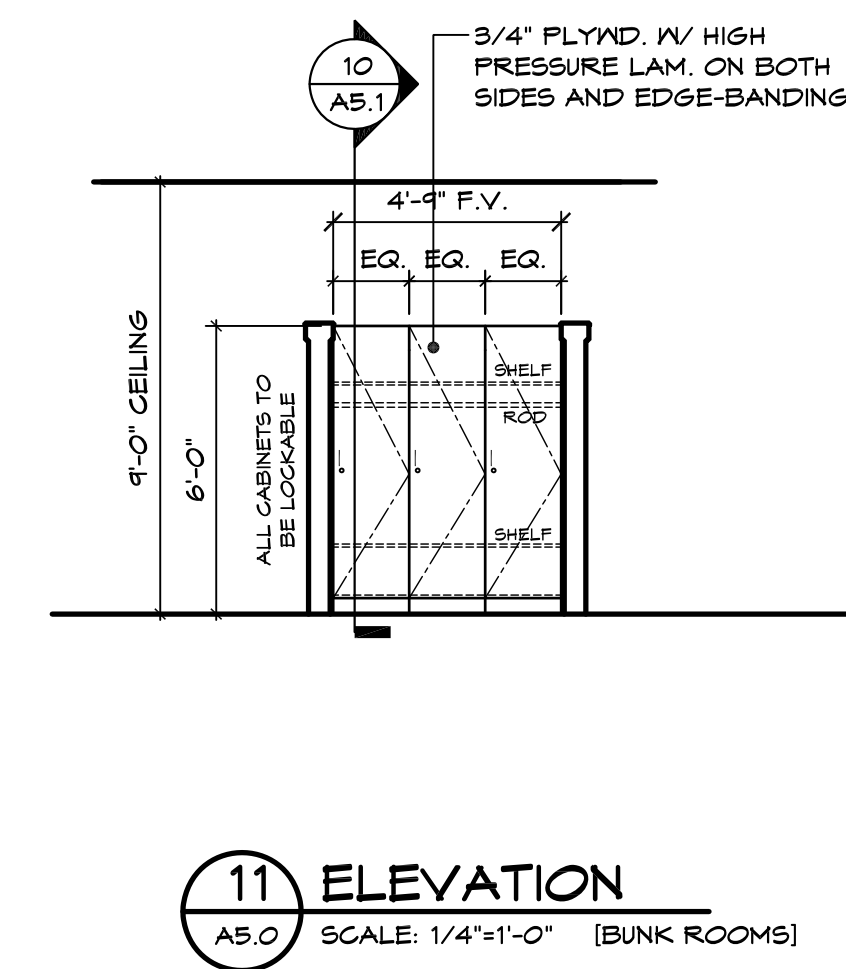
14 ELEVATION
AS.0 SCALE: 1/4"=1'-0" [B215]



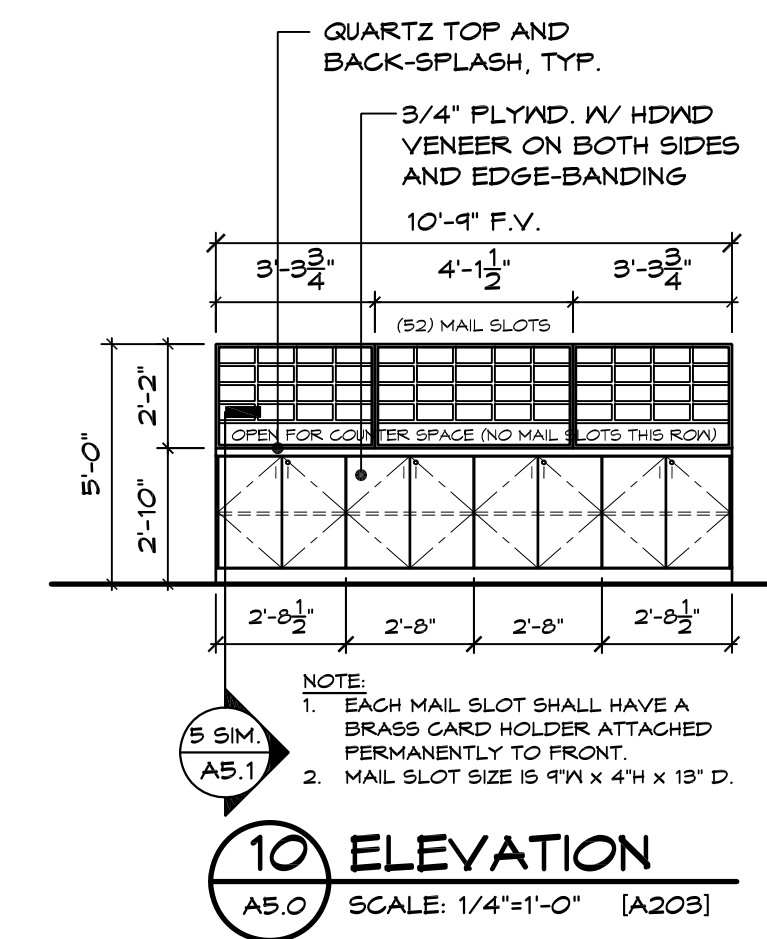
13 ELEVATION
AS.0 SCALE: 1/4"=1'-0" [B214]



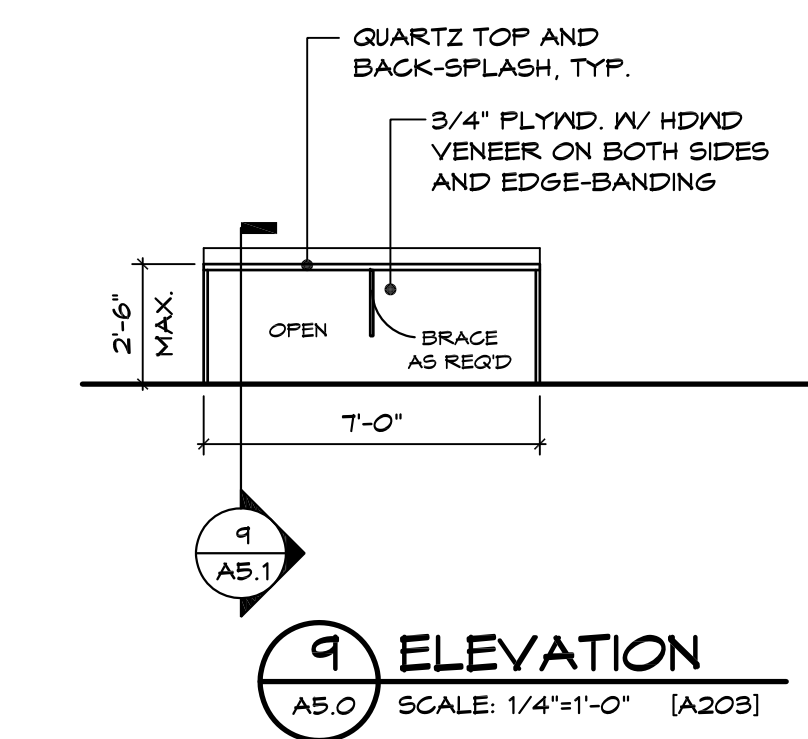
12 ELEVATION
AS.0 SCALE: 1/4"=1'-0" [B213]



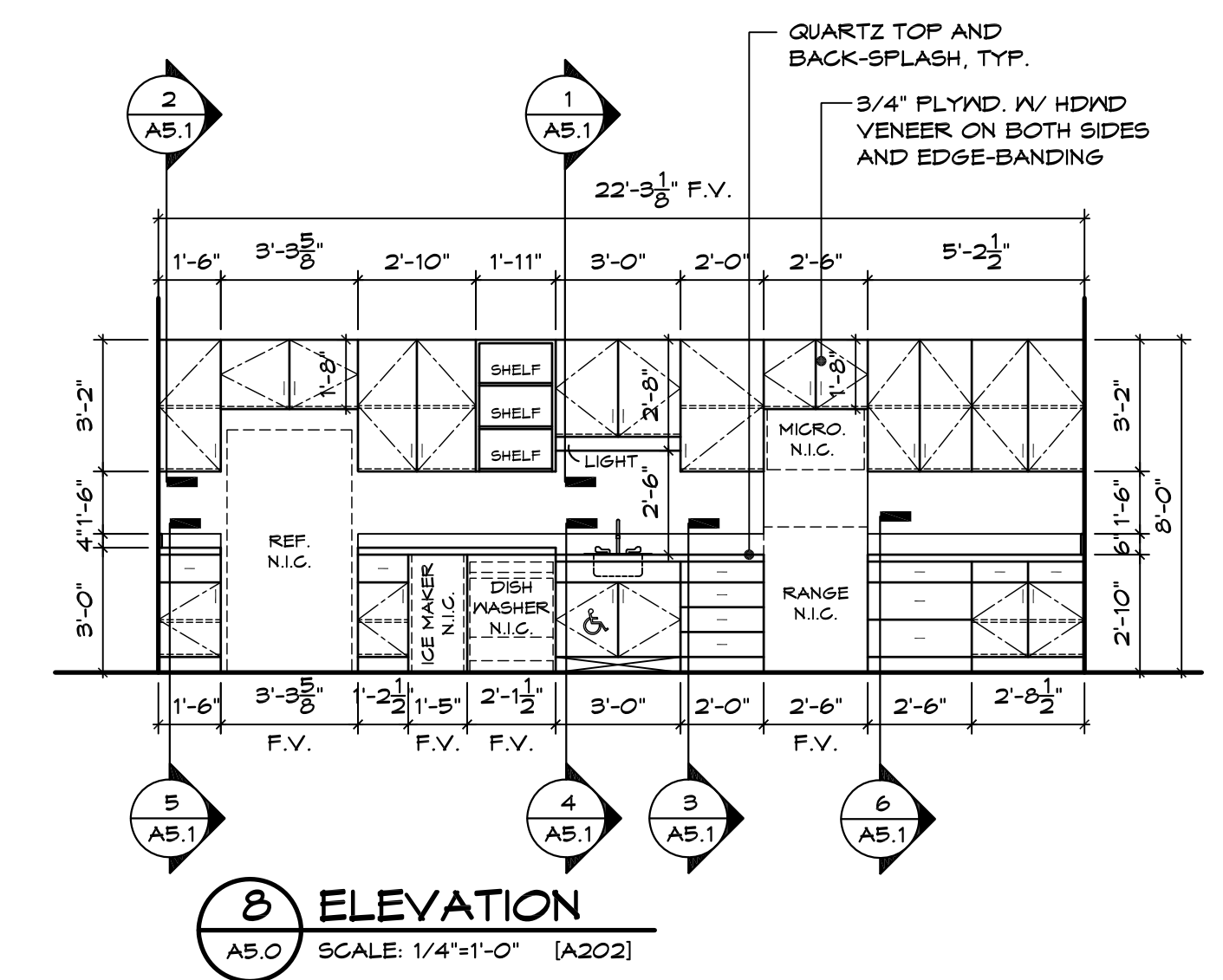
11 ELEVATION
AS.0 SCALE: 1/4"=1'-0" [BUNK ROOMS]



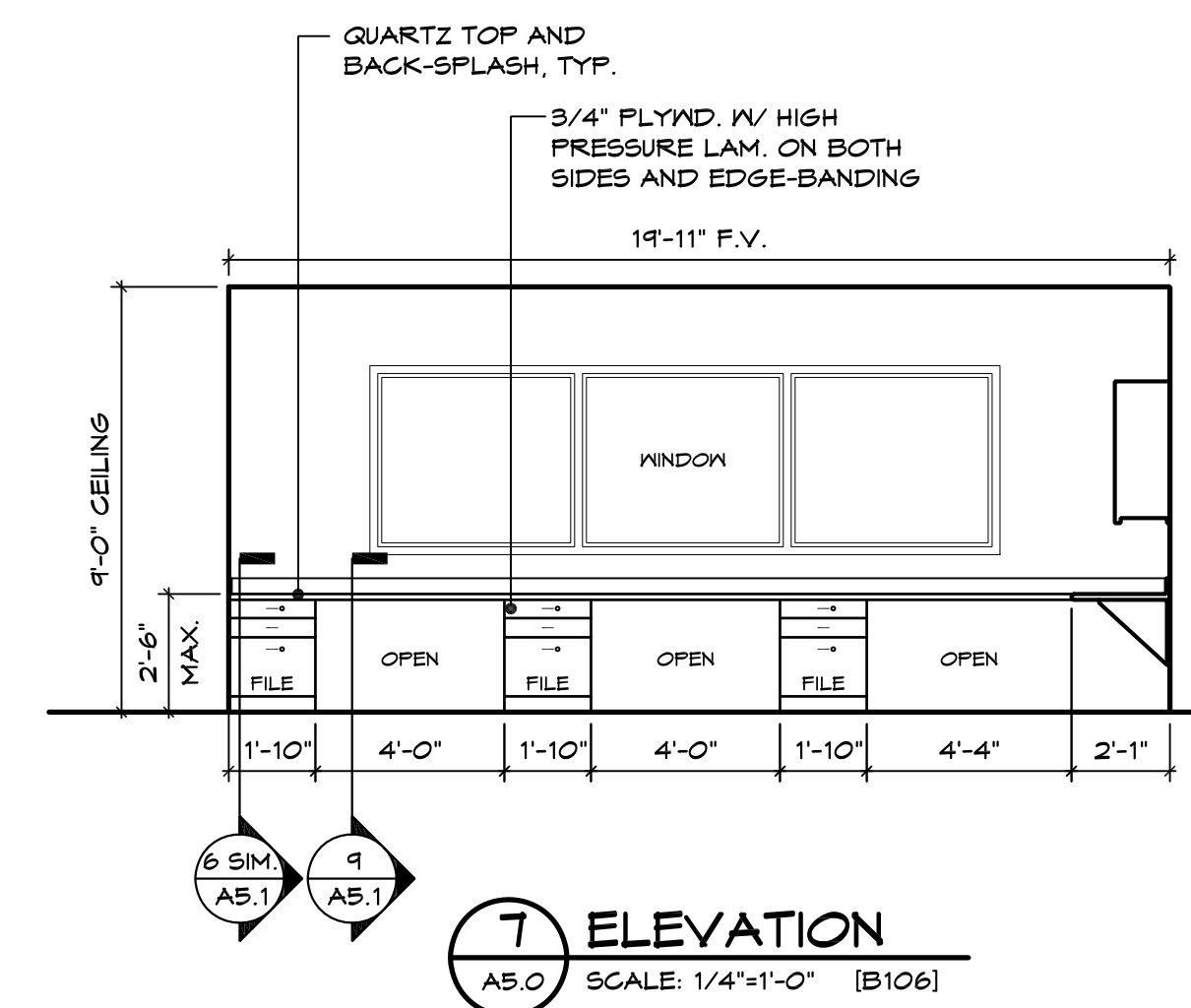
10 ELEVATION
AS.0 SCALE: 1/4"=1'-0" [A203]



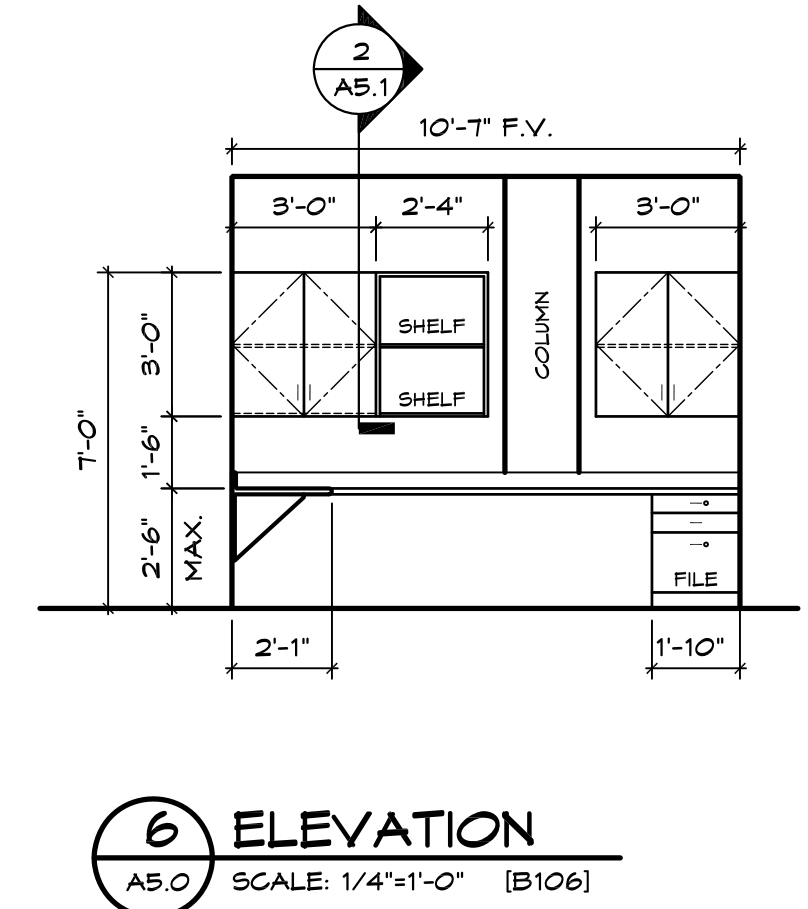
9 ELEVATION
AS.0 SCALE: 1/4"=1'-0" [A203]



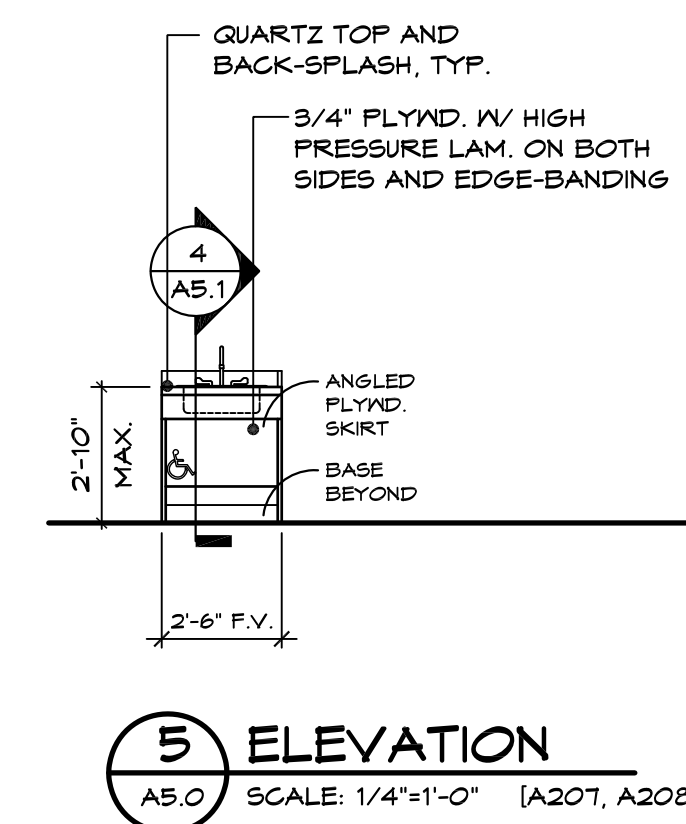
8 ELEVATION
AS.0 SCALE: 1/4"=1'-0" [A202]



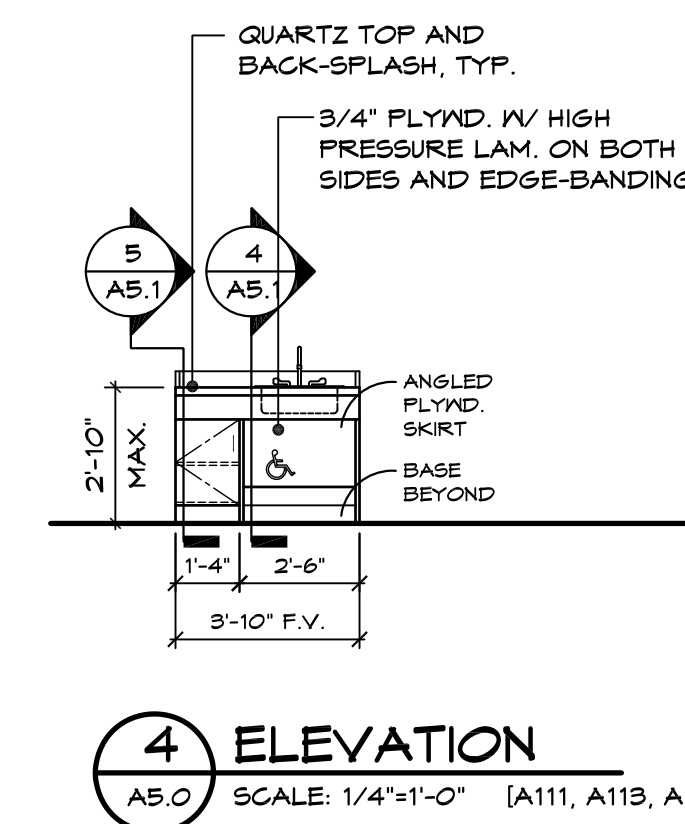
7 ELEVATION
AS.0 SCALE: 1/4"=1'-0" [B106]



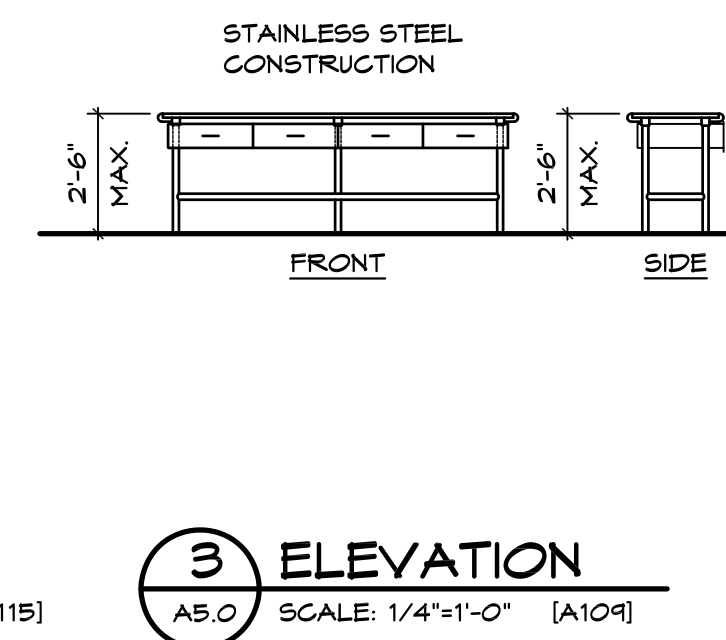
6 ELEVATION
AS.0 SCALE: 1/4"=1'-0" [B106]



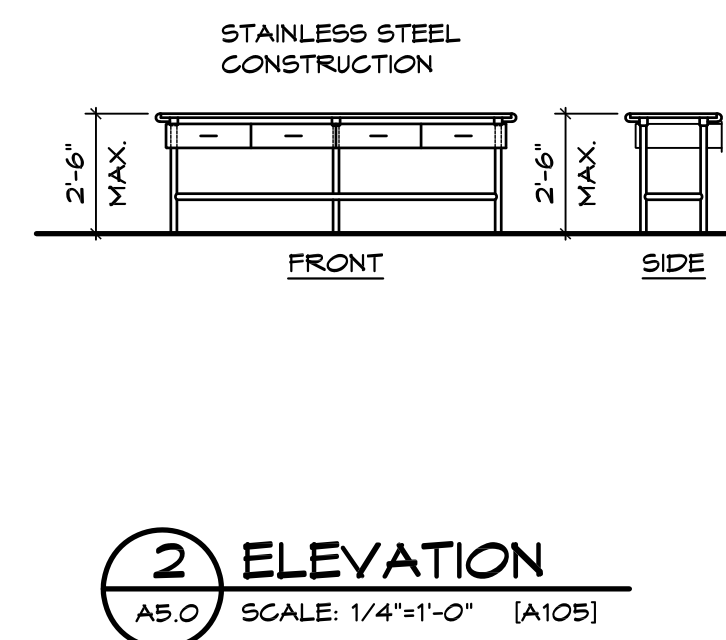
5 ELEVATION
AS.0 SCALE: 1/4"=1'-0" [A207, A208, B104]



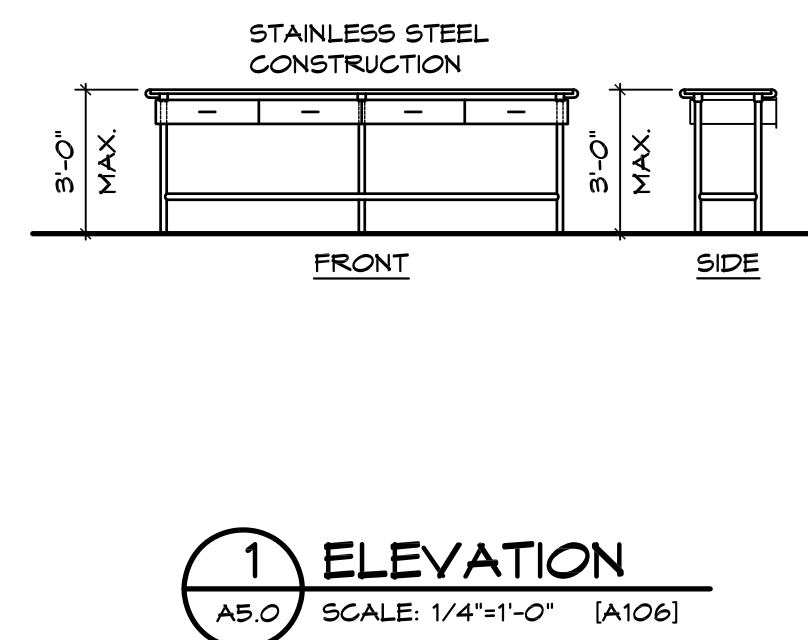
4 ELEVATION
AS.0 SCALE: 1/4"=1'-0" [A111, A113, A114, A115]



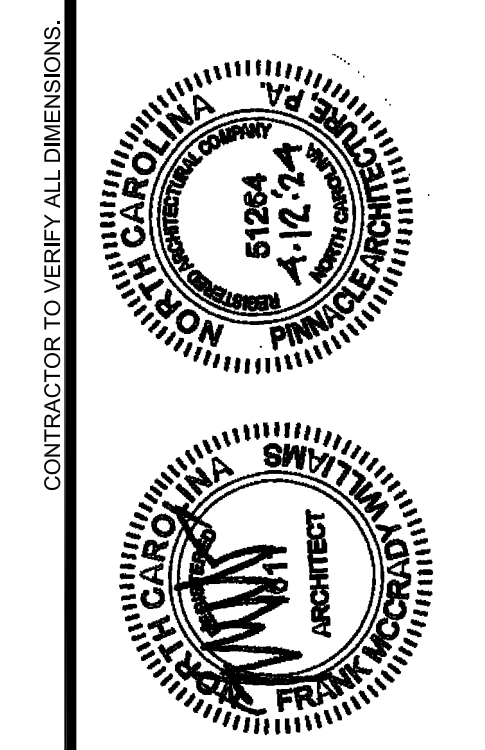
3 ELEVATION
AS.0 SCALE: 1/4"=1'-0" [A109]



2 ELEVATION
AS.0 SCALE: 1/4"=1'-0" [A109]



1 ELEVATION
AS.0 SCALE: 1/4"=1'-0" [A106]



PINNACLE ARCHITECTURE
PROFESSIONAL ASSOCIATION
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MATTHEWS, NORTH CAROLINA 28105
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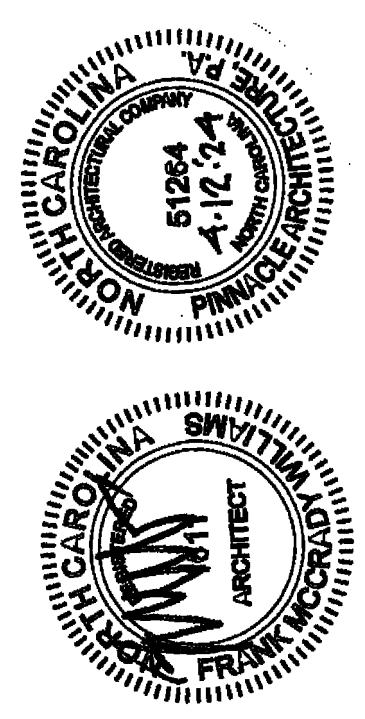
D.R. REYNOLDS COMPANY, INC.
103 GREEN FARM ROAD
STAR, NORTH CAROLINA 27386
(910) 428-4380

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PROJECT: 2024

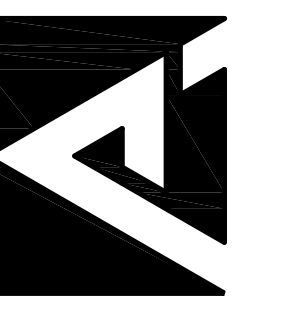
CONCORD FIRE STATION NO. 6
DAVID DISTRICT - NEW FACILITY
CONCORD, NC
CASEWORK ELEVATIONS

REVISION SCHEDULE	
NO.	REFERENCE

A5.0



PINNACLE ARCHITECTURE
PROFESSIONAL ASSOCIATION
701 EAST BAY STREET, SUITE 302
CHARLESTON, SOUTH CAROLINA 29405
PH: (843) 551-3545 FAX: (843) 551-3541



DR
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103 GREEN FARM ROAD
STAR, NORTH CAROLINA 27586
(910) 428-4380

ISSUE DATE: 04.12.24
DRAWN BY: JH/JR
CHECKED BY: JVA/VES
PROJECT: 2524

CONCORD FIRE STATION NO. 6
DAVID DISTRICT - NEW FACILITY
CONCORD, NC
CASEWORK SECTIONS & DETAILS

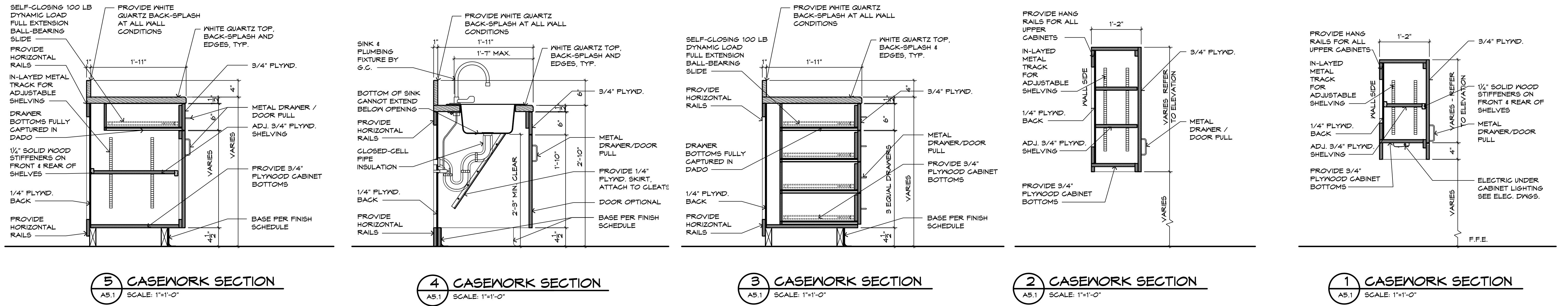
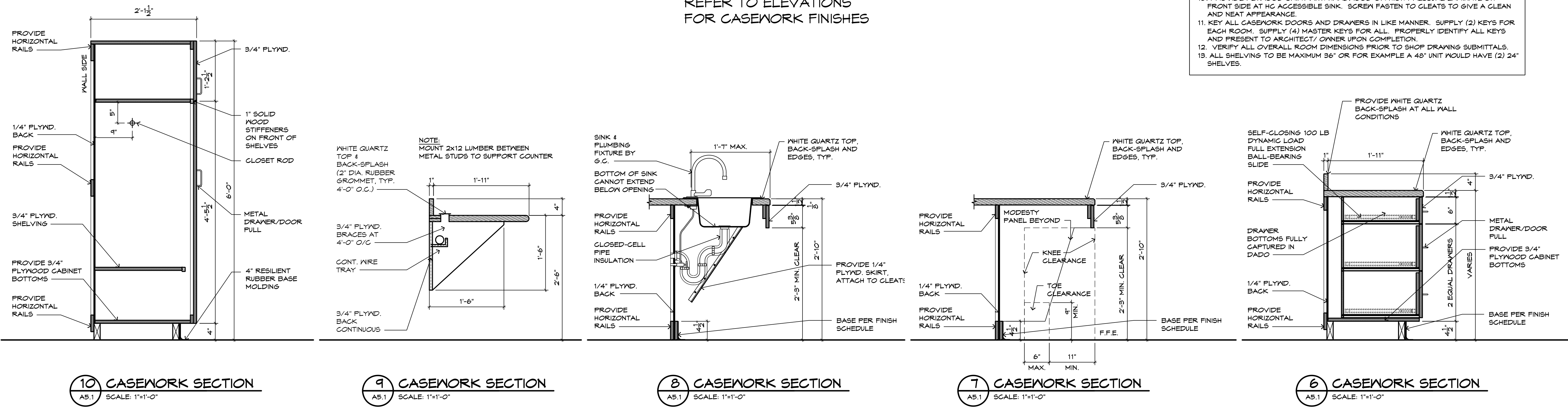
REVISION SCHEDULE	
NO.	REFERENCE

A5.1

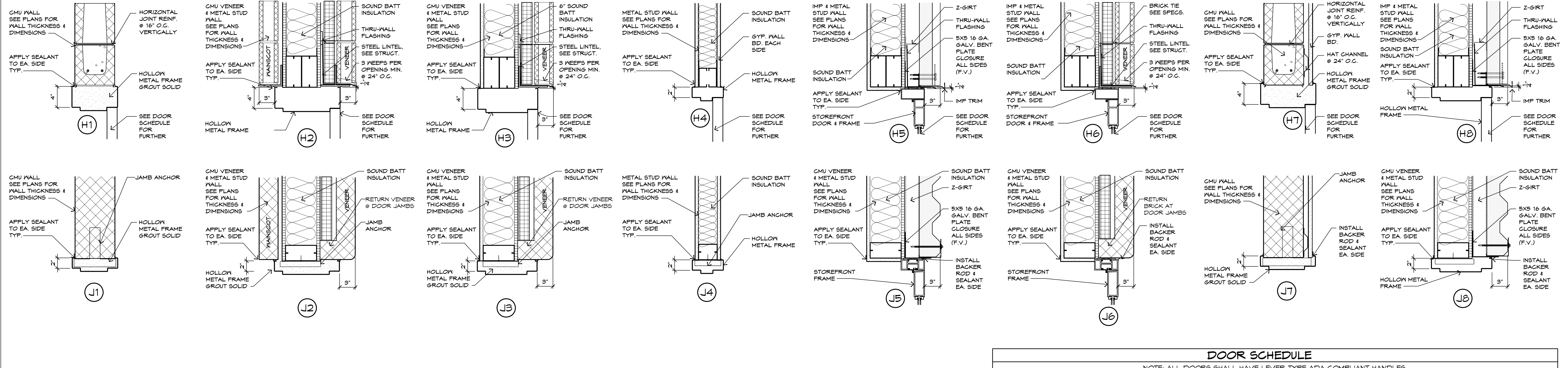
CASEWORK NOTES:
ALL MILLWORK SHALL COMPLY AND BE INSPECTED PER ANI CERTIFICATION PROGRAM. UNLESS SPECIFICALLY NOTED OTHERWISE THE FOLLOWING IS TO BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

- CASEWORK CONSTRUCTION TO BE OF 3/4" MULTIPLY WATER RESISTANT PLYWOOD WITH HARDWOOD OR HIGH PRESSURE LAMINATE VENEER SURFACES ON BOTH SIDES AND MATCHING EDGE-BANDING.
- DRAWER CONSTRUCTION TO BE 3/4" MULTIPLY WATER RESISTANT PLYWOOD WITH HARDWOOD OR HIGH PRESSURE LAMINATE VENEER SURFACES. DRAWER BOTTOMS TO BE 1/2" FURNITURE GRADE PLYWOOD FASTENED AND TRAPPED IN GROOVES.
- DRAWERS TO HAVE FULL EXTENSION BALL BEARING SELF-CLOSING SLIDES WITH 100LB DYNAMIC LOAD CAPACITY.
- ALL DRAWERS AND DOORS INDICATED TO BE KEY LOCKABLE.
- ALL HINGES TO BE SELF-CLOSING 110° OPENING. SEE SPECIFICATIONS FOR FURTHER.
- DRAWER PULLS TO BE MINIMUM 128mm. FINISH TO BE DETERMINED BY ARCHITECT.
- PROVIDE INLAYED ADJUSTABLE METAL SHELVING BRACKETS AS INDICATED ON DRAWINGS.
- HARDWOOD VENEER AND HIGH PRESSURE LAMINATE COLORS AND PATTERNS TO BE DETERMINED BY ARCHITECT/OWNER.
- PROVIDE HC ACCESSIBLE KITCHEN SINK AND COUNTER. SEE PLUMBING SPECIFICATIONS FOR FURTHER.
- PROVIDE PLYWOOD SKIRT WITH HARDWOOD OR HIGH PRESSURE LAMINATE ON FRONT SIDE AT HC ACCESSIBLE SINK. SCREW FASTEN TO CLEATS TO GIVE A CLEAN AND NEAT APPEARANCE.
- KEY ALL CASEWORK DOORS AND DRAWERS IN LIKE MANNER. SUPPLY (2) KEYS FOR EACH ROOM. SUPPLY (4) MASTER KEYS FOR ALL. PROPERLY IDENTIFY ALL KEYS AND PRESENT TO ARCHITECT/OWNER UPON COMPLETION.
- VERIFY ALL OVERALL ROOM DIMENSIONS PRIOR TO SHOP DRAWING SUBMITTALS.
- ALL SHELVING TO BE MAXIMUM 36" OR FOR EXAMPLE A 48" UNIT WOULD HAVE (2) 24" SHELVES.

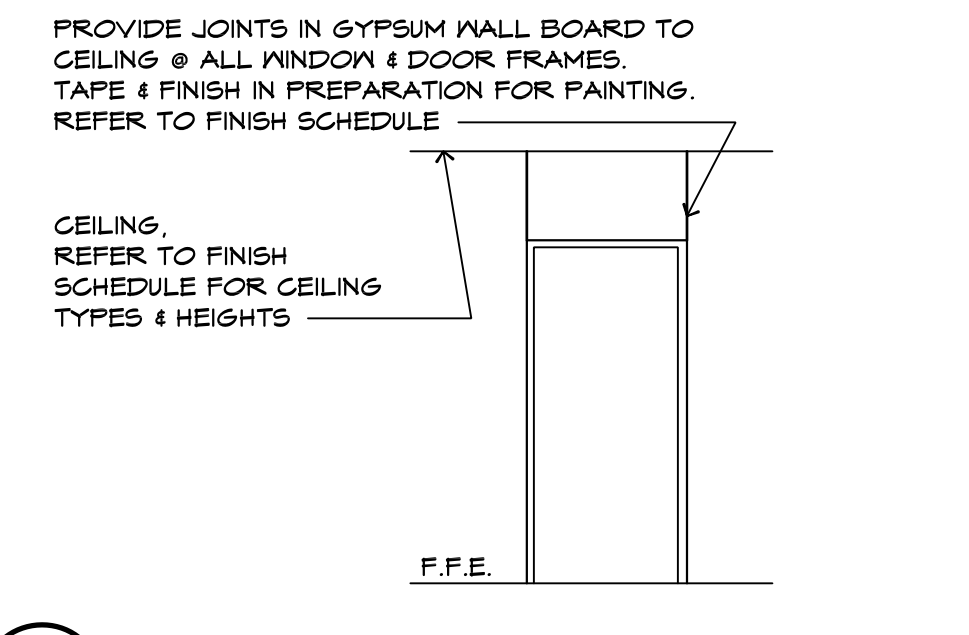
NOTE:
REFER TO ELEVATIONS
FOR CASEWORK FINISHES



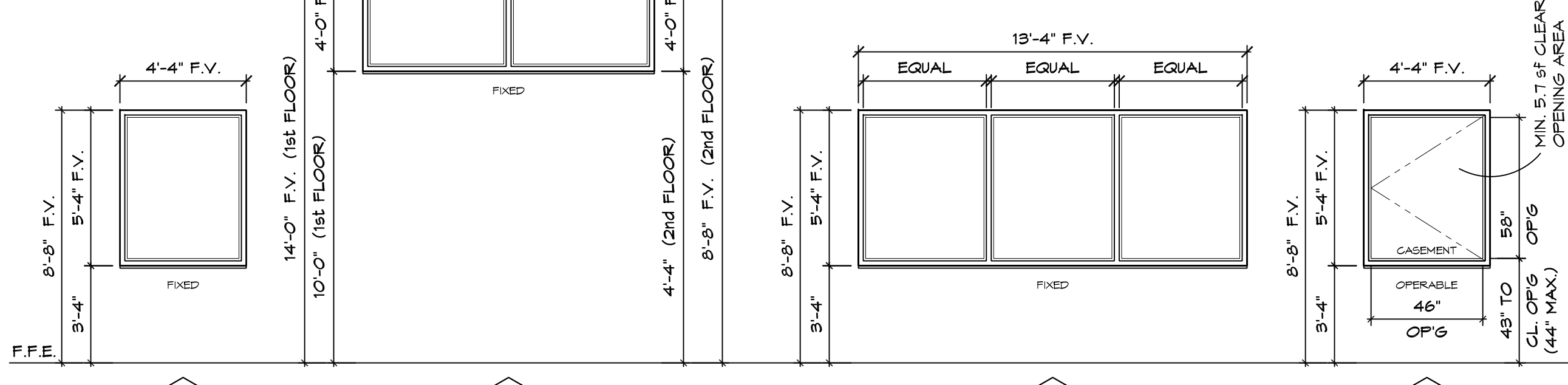
P:\Projects\2024\CONCORD FIRE STATION NO. 6\Drawings\A5.1.dwg
 04/12/24 10:00 AM
 JVA/VES



6 HEAD/JAMB DETAILS
A6.0 SCALE: 1/2" = 1'-0"

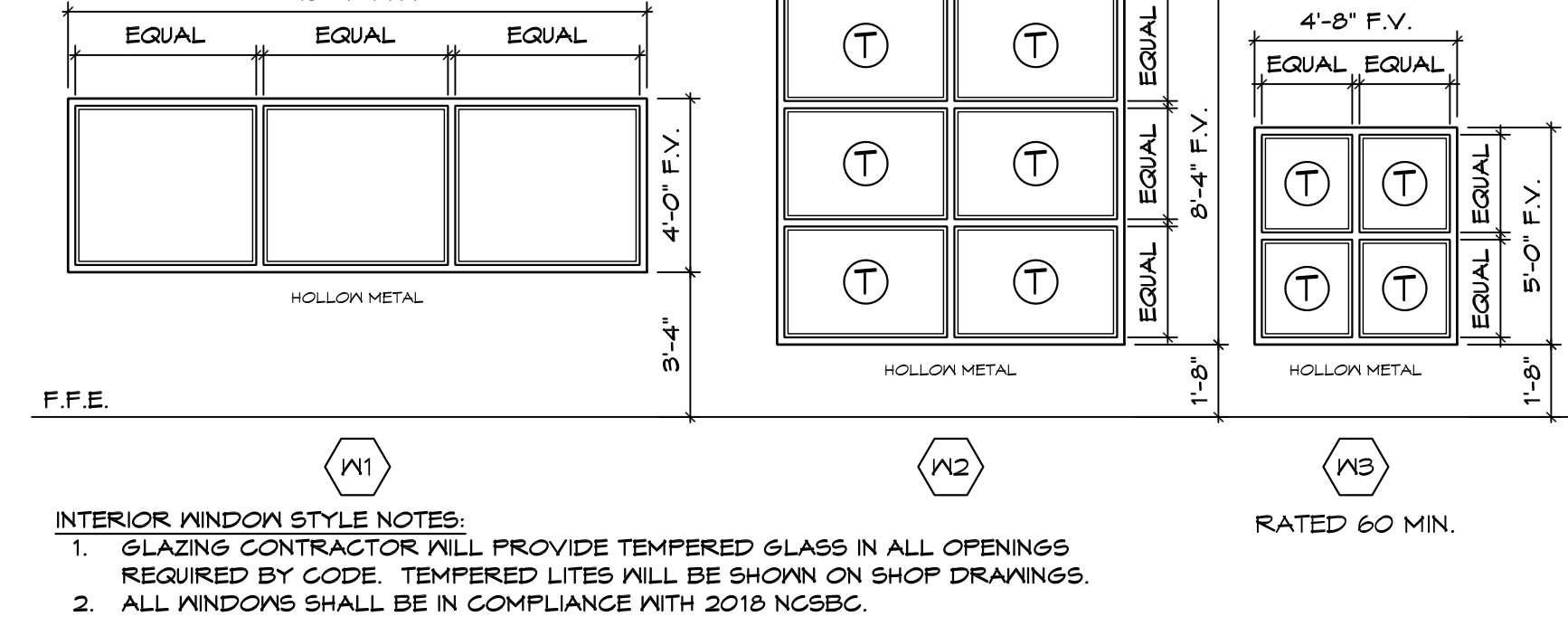


5 TYPICAL FRAME DETAIL
A6.0 SCALE: 1/4" = 1'-0"



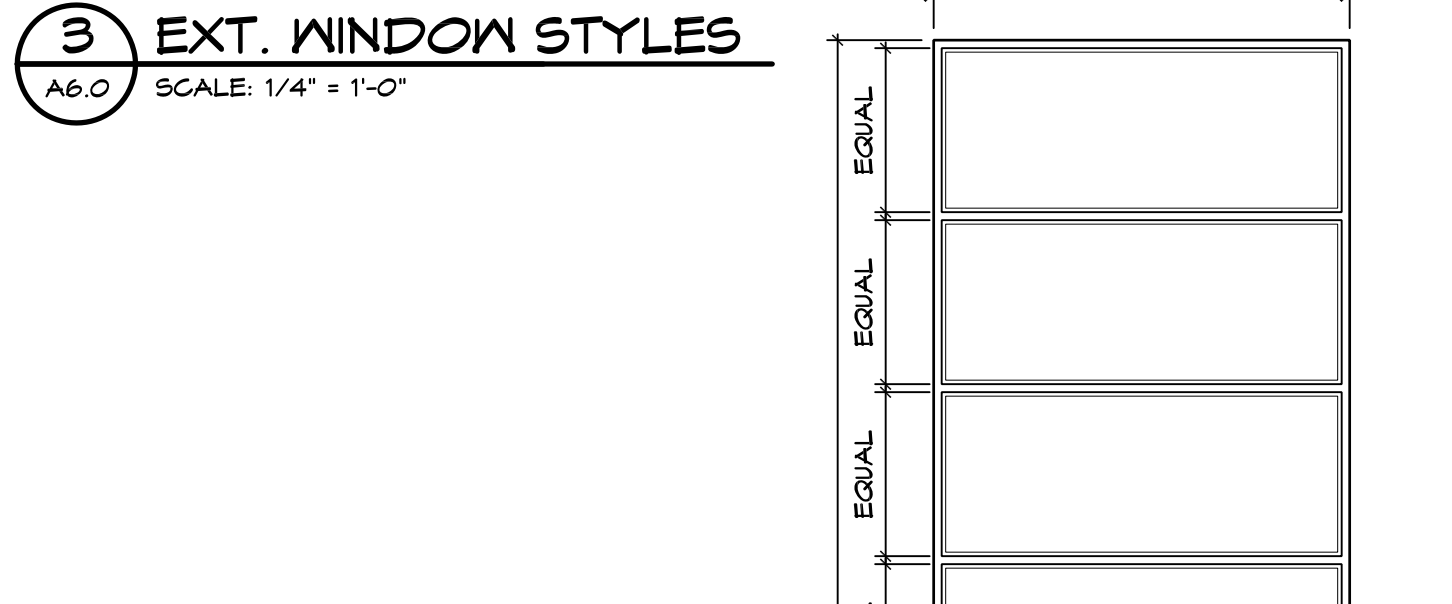
EXTERIOR WINDOW STYLE NOTES:
1. ALL EXTERIOR WINDOWS SHALL HAVE AN ALUMINUM SILL EXTENSIONS, 1\"/>

T = TEMPERED GLASS, TYP.

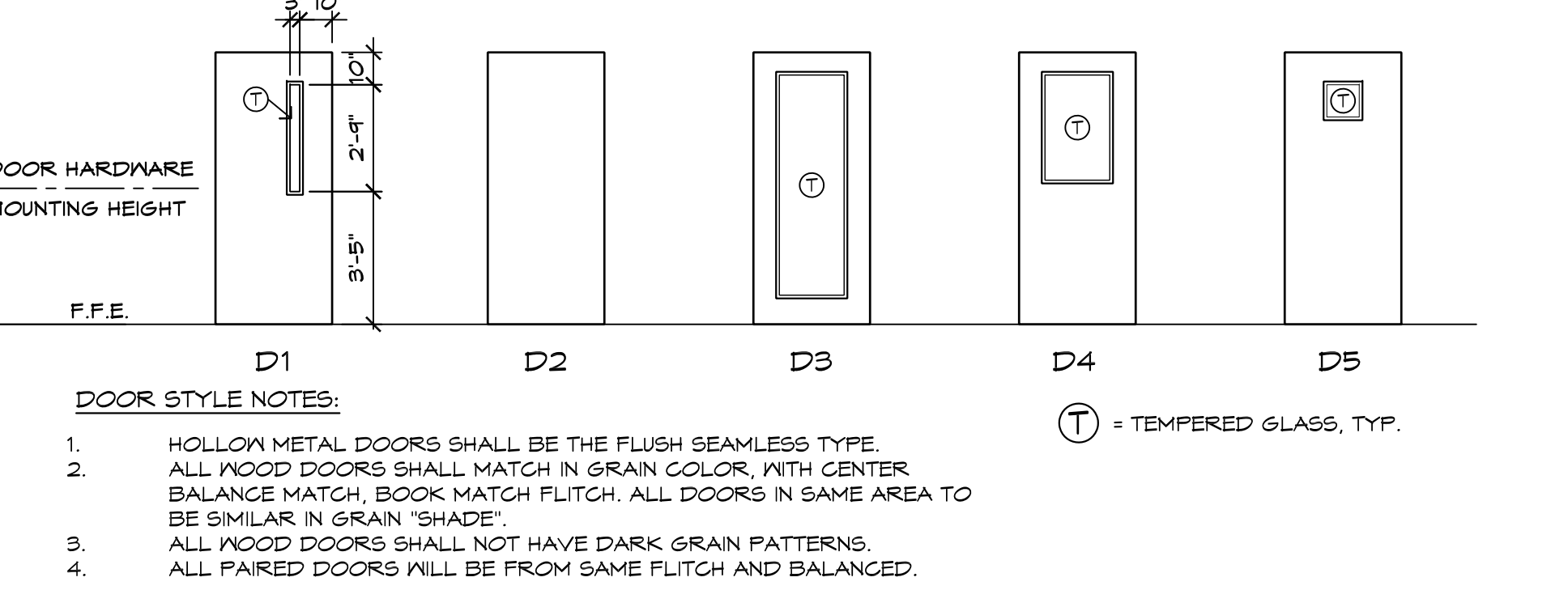


INTERIOR WINDOW STYLE NOTES:
1. GLAZING CONTRACTOR SHALL PROVIDE TEMPERED GLASS IN ALL OPENINGS REQUIRED BY CODE. TEMPERED LITES WILL BE SHOWN ON SHOP DRAWINGS.
2. ALL WINDOWS SHALL BE IN COMPLIANCE WITH 2018 NCBC.

4 INT. WINDOW STYLES
A6.0 SCALE: 1/4" = 1'-0"

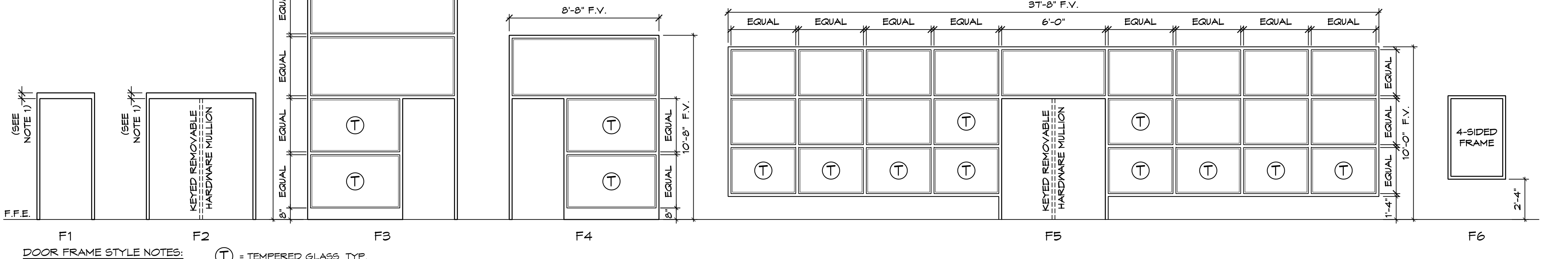


3 EXT. WINDOW STYLES
A6.0 SCALE: 1/4" = 1'-0"



DOOR STYLE NOTES:
1. HOLLOW METAL DOORS SHALL BE THE FLUSH SEAMLESS TYPE.
2. ALL WOOD DOORS SHALL MATCH IN GRAIN COLOR, WITH CENTER BALANCE MATCH, BOOK MATCH FLITCH. ALL DOORS IN SAME AREA TO BE SIMILAR IN GRAIN SHADE.
3. ALL WOOD DOORS SHALL NOT HAVE DARK GRAIN PATTERNS.
4. ALL PAIRED DOORS WILL BE FROM SAME FLITCH AND BALANCED.

2 DOOR STYLES
A6.0 SCALE: 1/4" = 1'-0"

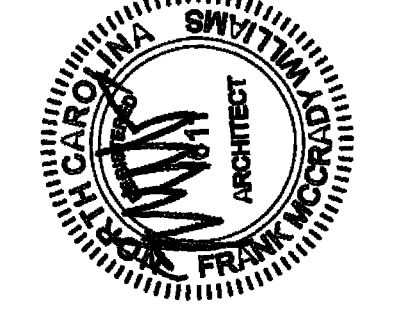


DOOR FRAME STYLE NOTES:
1. 4\"/>

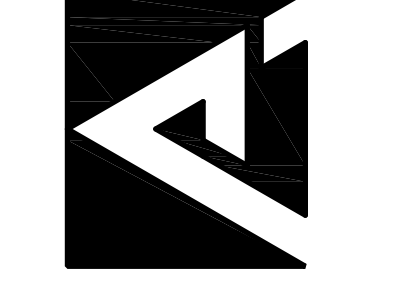
1 FRAME STYLES
A6.0 SCALE: 1/4" = 1'-0"

DOOR NUMBER	ROOM NAME	SIZE	DOOR				THRESHOLD	HEAD/JAMB DETAIL	FIRE RATING	CLOSER	PANIC HDWR	REMARKS *
			DOOR		FRAME							
			STYLE	MATL	STYLE	MATL						
1st FLOOR												
A100A	INTERVIEW #1	3'-0" x T'-0"	D2	HM	F1	HM	--	H1 / J1	--	NO	NO	
A100A	INTERVIEW #2	3'-0" x T'-0"	D2	HM	F1	HM	--	H1 / J1	--	NO	NO	
A104A	VESTIBULE	3'-0" x T'-0"	D5	HM	F1	HM	ALUMINUM	H2 / J2	--	YES	NO	WEATHERSTRIPPING/SNEEP
A106A	INTOXIMETER	3'-0" x T'-0"	D5	HM	F1	HM	ALUMINUM	H2 / J2	--	YES	NO	WEATHERSTRIPPING/SNEEP
A106B		3'-0" x T'-0"	D2	HM	F1	HM	--	H1 / J1	--	NO	NO	
A107A	STAIR #1	3'-0" x T'-0"	D5	HM	F1	HM	ALUMINUM	H3 / J3	--	YES	YES	WEATHERSTRIPPING/SNEEP
A107B		3'-0" x T'-0"	D1	HM	F1	HM	--	H1 / J1	45 MIN.	YES	NO	WEATHERSTRIPPING/SNEEP
A107C		3'-0" x T'-0"	D4	WOOD	F1	HM	--	H1 / J1	45 MIN.	YES	YES	WEATHERSTRIPPING/SNEEP
A108A	TOILET	3'-0" x T'-0"	D2	HM	F1	HM	--	H1 / J1	--	NO	NO	
A110A	GARAGE	3'-0" x T'-0"	D2	HM	F1	HM	ALUMINUM	H2 / J2	--	YES	NO	WEATHERSTRIPPING/SNEEP
A110B		3'-0" x T'-0"	D1	HM	F1	HM	ALUMINUM	H1 / J1	--	YES	NO	WEATHERSTRIPPING/SNEEP
A110C		3'-0" x T'-0"	D2	HM	F1	HM	ALUMINUM	H1 / J1	--	YES	NO	WEATHERSTRIPPING/SNEEP
A111A	SHOWER #1	3'-0" x T'-0"	D2	WOOD	F1	HM	MARBLE	H4 / J4	--	NO	NO	
A112A	STORAGE	3'-0" x T'-0"	D2	WOOD	F1	HM	--	H4 / J4	--	NO	NO	
A113A	SHOWER #2	3'-0" x T'-0"	D2	WOOD	F1	HM	MARBLE	H4 / J4	--	NO	NO	
A114A	SHOWER #3	3'-0" x T'-0"	D2	WOOD	F1	HM	MARBLE	H4 / J4	--	NO	NO	
A115A	SHOWER #4	3'-0" x T'-0"	D2	WOOD	F1	HM	MARBLE	H4 / J4	--	NO	NO	
A116A	LOCKER ROOM	3'-0" x T'-0"	D2	WOOD	F1	HM	--	H1 / J1	--	YES	NO	
B100A	STAIR #2	3'-0" x T'-0"	D3	SF	F3	SF	ALUMINUM	H5 / J5	--	YES	YES	WEATHERSTRIPPING/SNEEP NO EXT. HDWR
B100B		3'-0" x T'-0"	D1	WOOD	F1	HM	--	H1 / J1	45 MIN.	YES	NO	WEATHERSTRIPPING/SNEEP
B100C		3'-0" x T'-0"	D1	WOOD	F1	HM	--	H1 / J1	45 MIN.	YES	YES	WEATHERSTRIPPING/SNEEP
B101A	VESTIBULE	3'-0" x T'-0"	D3	SF	F4	SF	ALUMINUM	H6 / J6	--	YES	NO	WEATHERSTRIPPING/SNEEP
B101B		3'-0" x T'-0"	D1	WOOD	F1	HM	--	H4 / J4	--	YES	NO	
B102A	OFFICE #1	3'-0" x T'-0"	D4	HM	F1	HM	--	H1 / J1	--	NO	NO	WEATHERSTRIPPING/SNEEP
B102B		3'-0" x T'-0"	D2	WOOD	F1	HM	--	H4 / J4	--	NO	NO	
B103A	OFFICE #2	3'-0" x T'-0"	D4	HM	F1	HM	--	H1 / J1	--	NO	NO	WEATHERSTRIPPING/SNEEP
B103B		3'-0" x T'-0"	D2	WOOD	F1	HM	--	H4 / J4	--	NO	NO	
B104A	TOILET	3'-0" x T'-0"	D2	WOOD	F1	HM	MARBLE	H4 / J4	--	NO	NO	
B106A	WATCH ROOM	3'-0" x T'-0"	D3	HM	F1	HM	--	H1 / J1	--	NO	NO	WEATHERSTRIPPING/SNEEP
B107A	JANITOR	3'-0" x T'-0"	D2	WOOD	F1	HM	--	H4 / J4	--	NO	NO	
B108A	GYM	3'-0" x T'-0"	D3	WOOD	F1	HM	ALUMINUM	H1 / J1	--	YES	NO	
B108B		3'-0" x T'-0"	D3	HM	F1	HM	--	H1 / J1	--	NO	NO	WEATHERSTRIPPING/SNEEP
B109A	CLEAN ROOM	4'-0" x T'-0"	D4	HM	F1	HM	--	H1 / J1	--	NO	NO	WEATHERSTRIPPING/SNEEP
B110A	APPARATUS BAY	3'-0" x T'-0"	D5	HM	F1	HM	ALUMINUM	H2 / J2	--	YES	NO	WEATHERSTRIPPING/SNEEP
B110C		3'-0" x T'-0"	D5	HM	F1	HM	ALUMINUM	H1 / J1	--	YES	YES	WEATHERSTRIPPING/SNEEP
B111A	SLIDE	4'-0" x T'-0"	D3	HM	F1	HM	--	H1 / J1	45 MIN.	YES	YES	WEATHERSTRIPPING/SNEEP
B112A	TOOLS	4'-0" x T'-0" F.O.	--	--	F1	HM	--	H1 / J1	--	--	--	NO
B113A	GEAR STORAGE	4'-0" x T'-0"	D3	HM	F1	HM	--	H1 / J1	--	NO	NO	WEATHERSTRIPPING/SNEEP 30\"/>

ABBREVIATIONS: HM - HOLLOW METAL SF - ALUMINUM STOREFRONT F.O. - FRAMED OPENING
* REFER TO HARDWARE SCHEDULE FOR FURTHER INFORMATION



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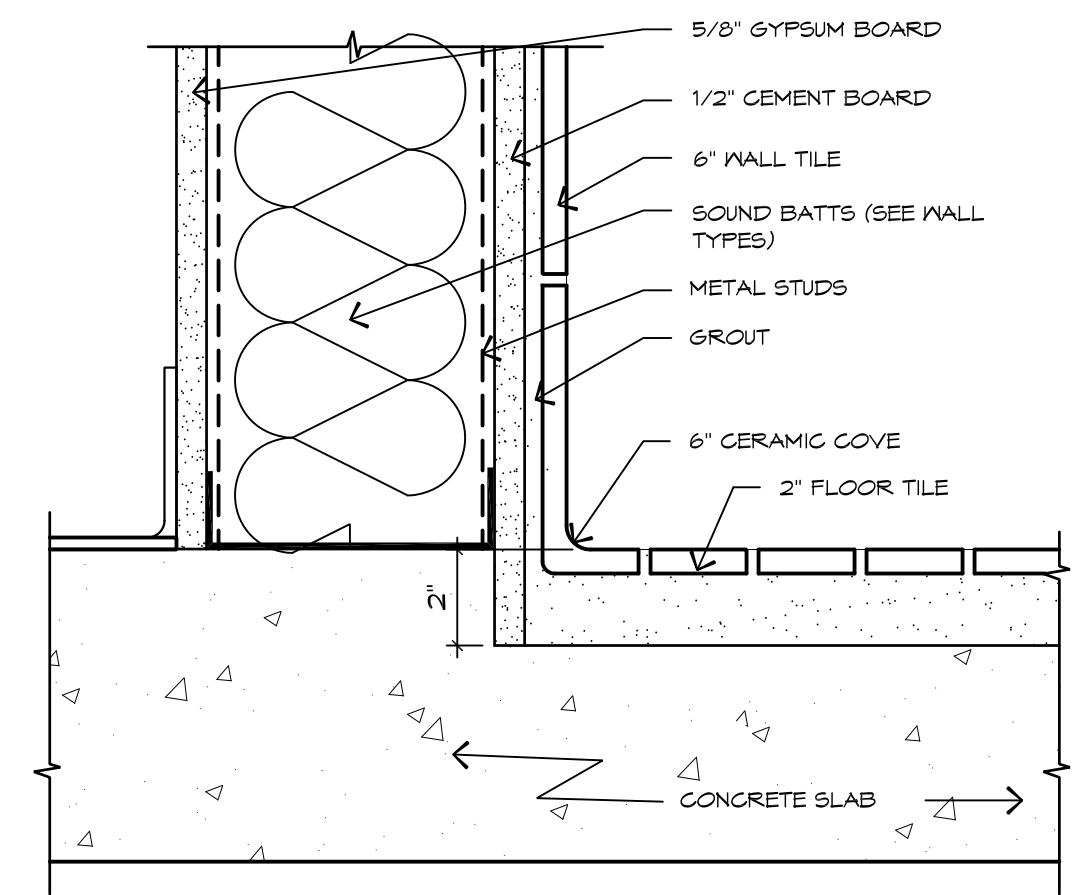
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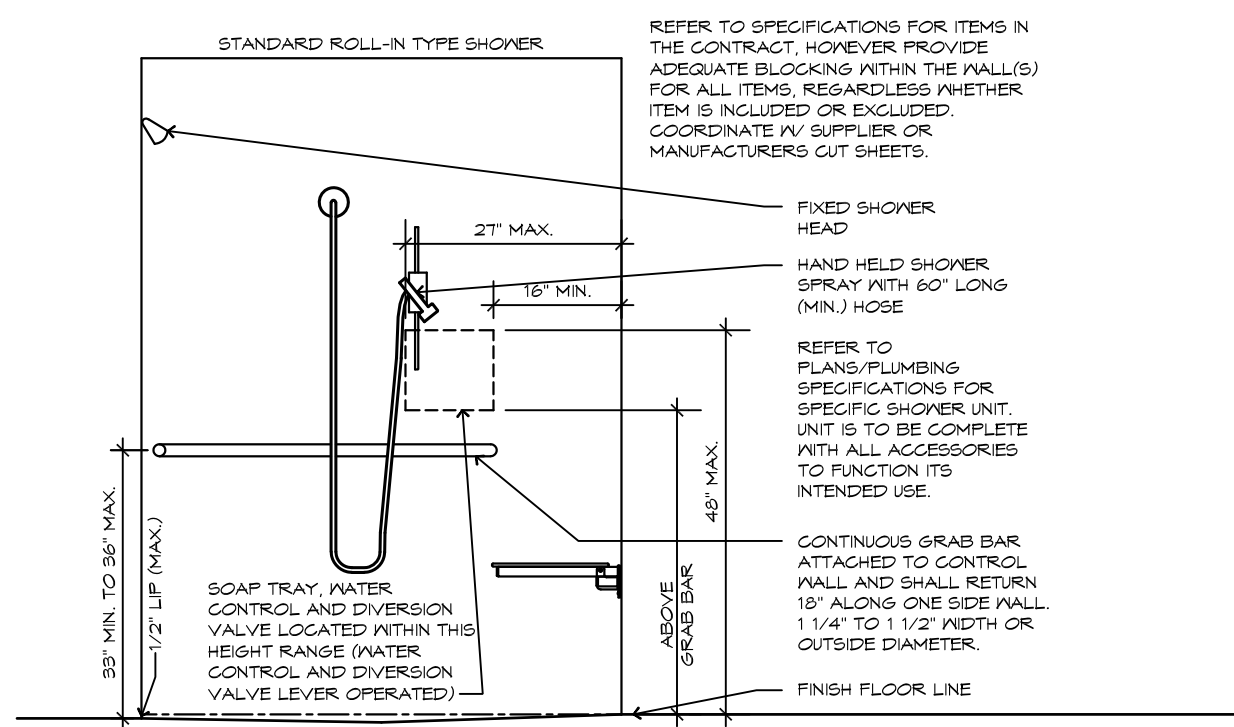
**CONCORD FIRE STATION NO. 6
DAVID DISTRICT - NEW FACILITY
CONCORD, NC**
DOOR SCHEDULE, DOOR/FRAME STYLES,
WINDOW STYLES & DETAILS

REVISION SCHEDULE
DATE REFERENCE

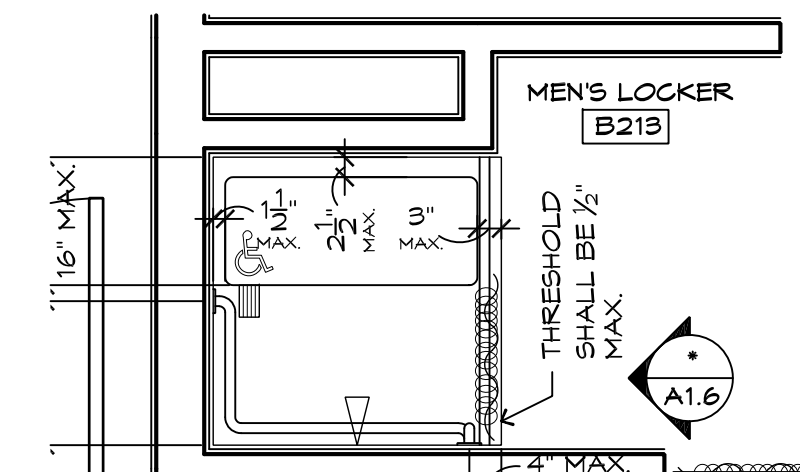
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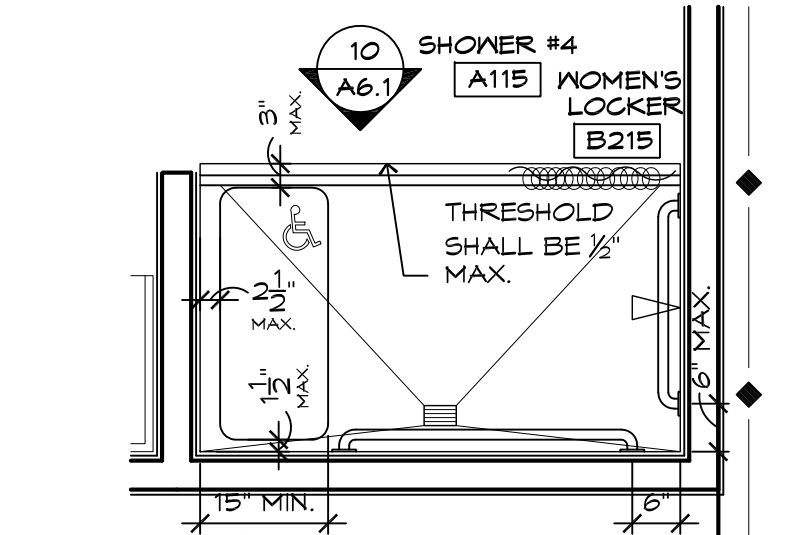
11 CERAMIC BASE SECTION @ SHOWER
 A6.1 SCALE: 3/4" = 1'-0"



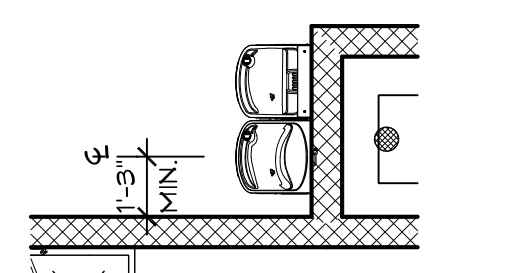
10 ROLL-IN SHOWER ELEVATION
 A6.1 NO SCALE



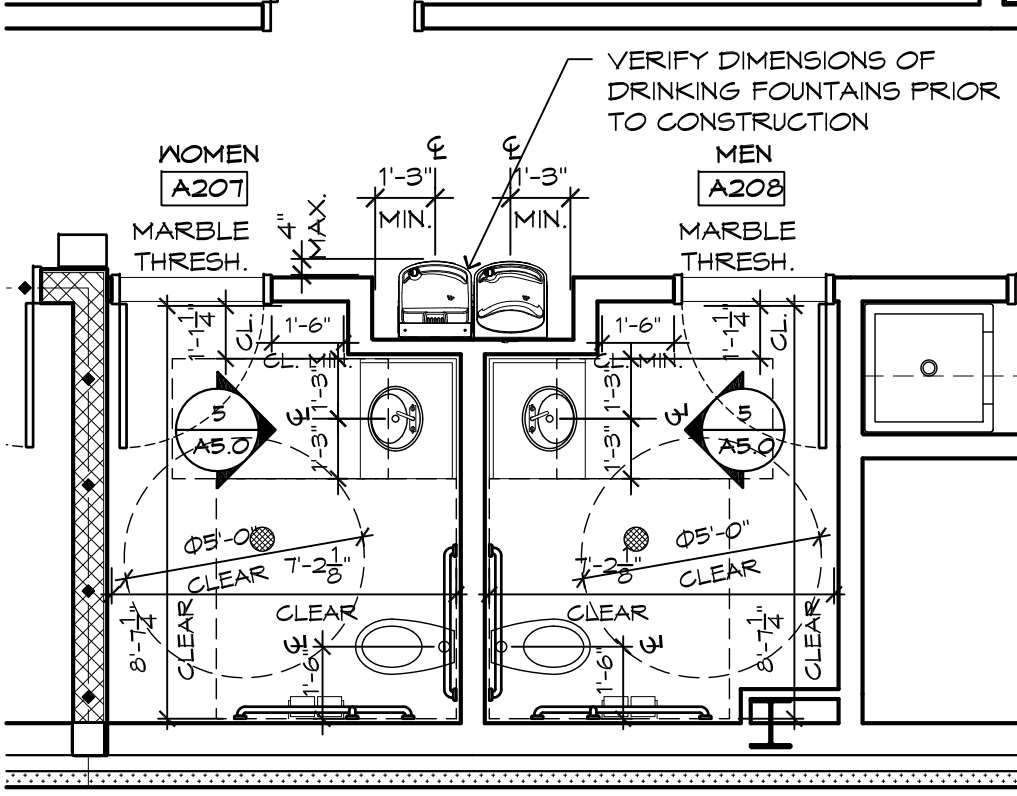
9 GRAB RAIL & SEAT DETAIL
 A6.1 SCALE: 1/2" = 1'-0"



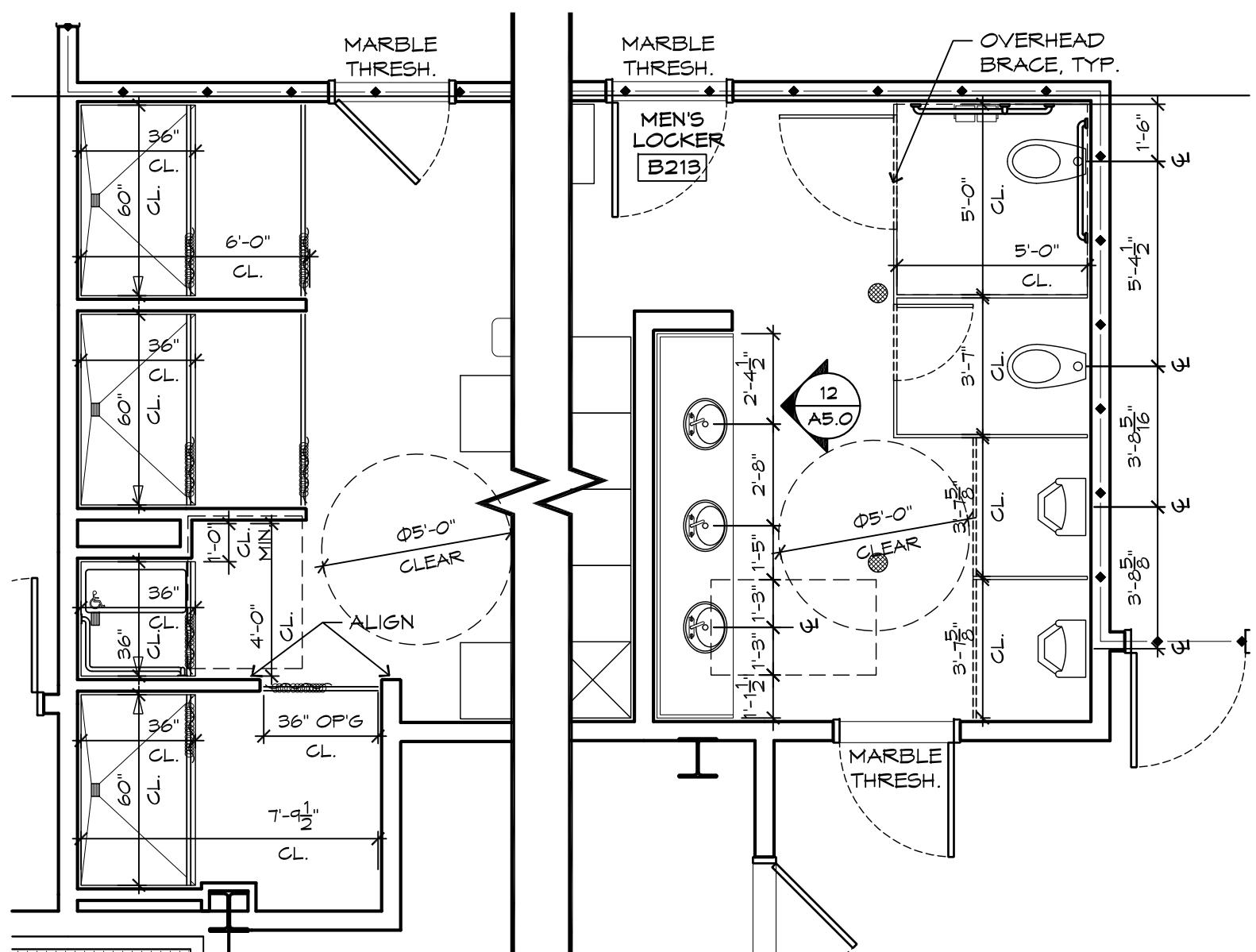
8 GRAB RAIL & SEAT DETAIL
 A6.1 SCALE: 1/2" = 1'-0"



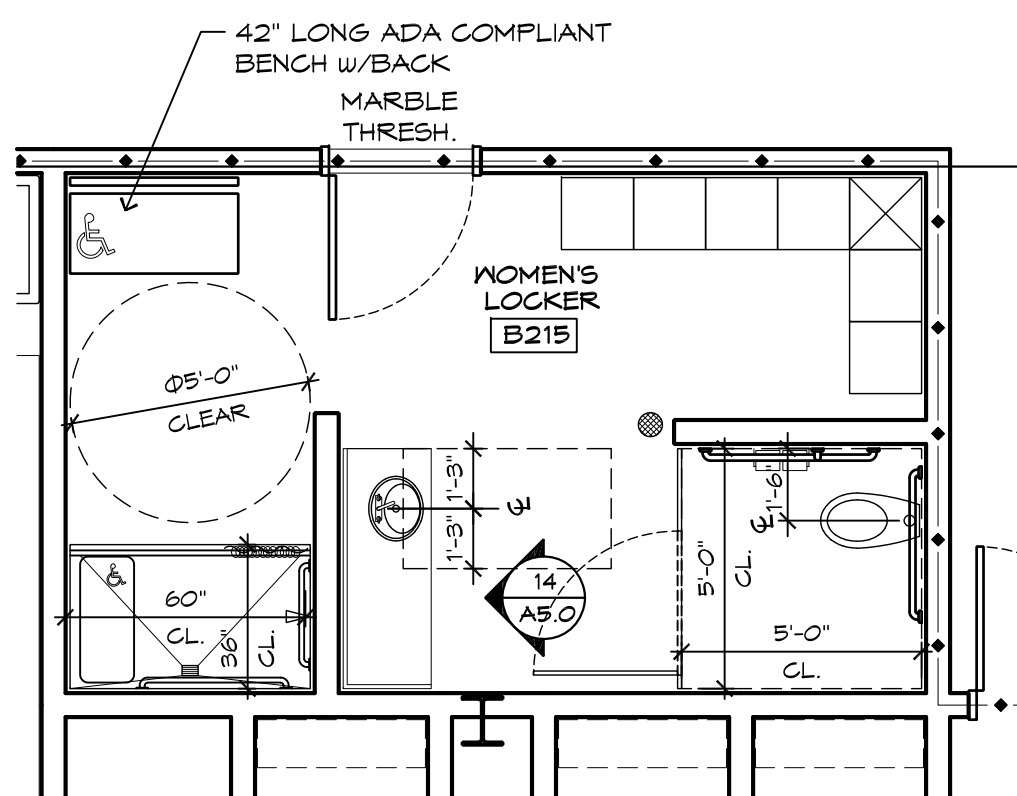
7 ENLARGED DRINKING FOUNTAIN PLAN
 A6.1 SCALE: 1/4" = 1'-0"



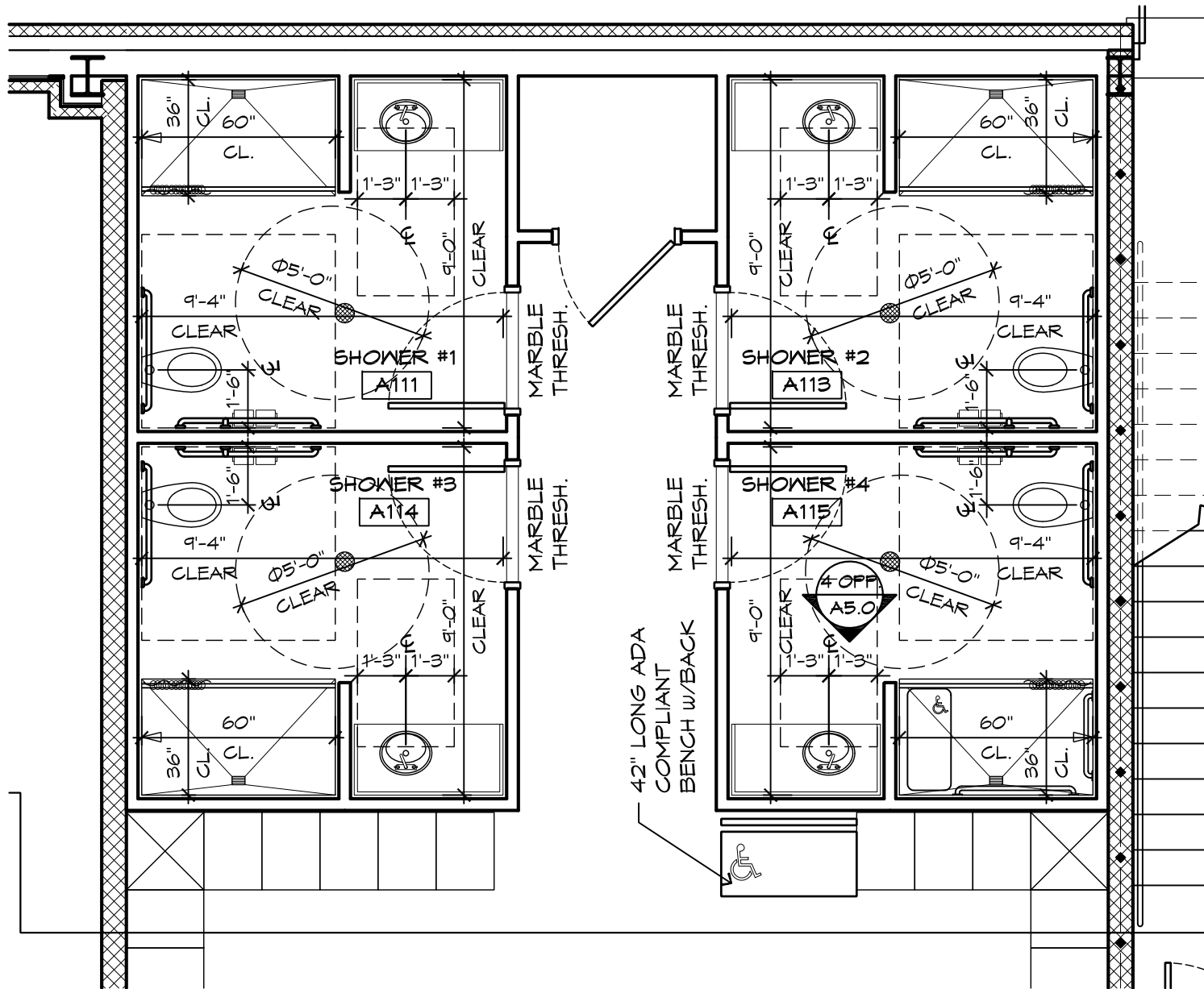
4 ENLARGED BATHROOM PLAN
 A6.1 SCALE: 1/4" = 1'-0"



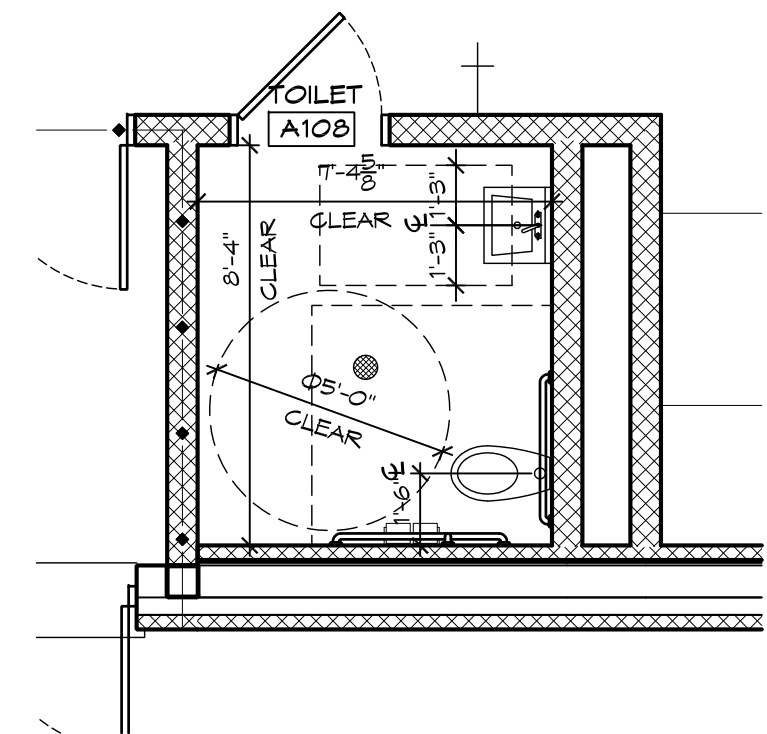
5 ENLARGED BATHROOM PLAN
 A6.1 SCALE: 1/4" = 1'-0"



6 ENLARGED BATHROOM PLAN
 A6.1 SCALE: 1/4" = 1'-0"

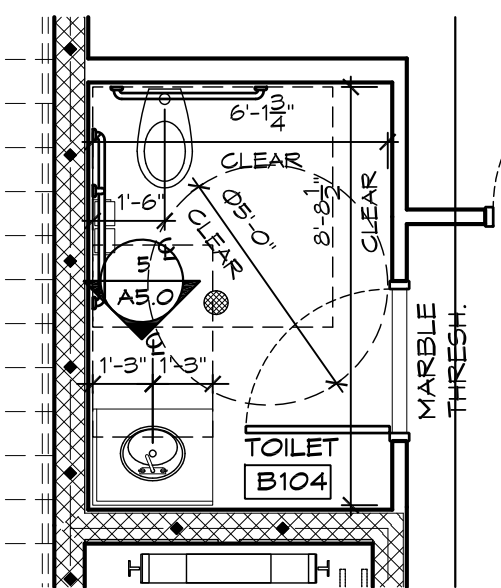


2 ENLARGED BATHROOM PLAN
 A6.1 SCALE: 1/4" = 1'-0"



1 ENLARGED BATHROOM PLAN
 A6.1 SCALE: 1/4" = 1'-0"

NOTE:
 ALL ENLARGED TOILET DIMENSIONS
 SHOWN ARE FROM INTERIOR FINISHED
 FACE OF WALL TO INTERIOR FINISHED
 FACE OF WALL.



3 ENLARGED BATHROOM PLAN
 A6.1 SCALE: 1/4" = 1'-0"



13 CERAMIC TILE @ SHOWER
 A6.1 NO SCALE



12 CERAMIC TILE @ LOCKER ROOM
 A6.1 NO SCALE

FLOORING & HARD TILE SPECIFICATIONS
 PENNY TILE: ROGA TILE USA
 BRIGHT RED PEPPER
 COBALT BLUE
 GROUT: LATICRETE FERMAGOLOR SELECT,
 45 RAVEN
 SUBWAY TILE: FLORIDA TILE EMOTIVE COY
 GREY GLOSSY 3X12 (SHOWER WALLS)
 GROUT: LATICRETE FERMAGOLOR SELECT,
 TB STERLING SILVER
 SCHLEUTER TRIMS & REDUCERS - ANODIZED ALUMINUM
 RESTROOM FLOOR & WALL TILE: FLORIDA TILE LOST RIVER
 RUSH (12X24)
 GROUT: LATICRETE FERMAGOLOR SELECT,
 TB STERLING SILVER
 LVP: ARMSTRONG PARALLEL USA
 20 SAGE BROWN
 VINYL COVE BASE: ROPPE 4" 100 SERIES
 1B3 BLACK/ BROWN

ROOM FINISH SCHEDULE ABBREVIATIONS:
 1. CT - CERAMIC TILE
 2. CMT BD - CEMENT BOARD
 3. DRY - DRYWALL
 4. ACQS - SUSPENDED ACOUSTICAL CEILING
 5. CMU - CONCRETE MASONRY UNIT
 6. LVT - LUXURY VINYL TILE
 7. VCS - VINYL COVERED DRYWALL
 8. MMR - MOISTURE/ MOLD/ MILDEW
 RESISTANT EPOXY PAINT
 9. FRP - FIBERGLASS REINFORCED PLASTIC
 10. AR DR - ABUSE RESISTANT DRYWALL

ROOM FINISH SCHEDULE						
ALL FINISHES TO BE CHOSEN BY OWNER. ALL MATERIALS MUST MEET OR EXCEED CHAPTER 8 OF 2018 NCBCB.						
No.	NAME	FLOOR	BASE	WALL / FINISH	CEILING / HEIGHT	COMMENTS
1st FLOOR						
A100	INTERVIEW #1	SEALED CONC.	VINYL COVE BASE	CMU / MMR PAINT	ACQUS / 9'-0"	
A101	HOLD. #1	SEALED CONC.	VINYL COVE BASE	CMU / MMR PAINT	PAINTED STRUC.	
A102	HOLD. #2	SEALED CONC.	VINYL COVE BASE	CMU / MMR PAINT	PAINTED STRUC.	
A103	INTERVIEW #2	SEALED CONC.	VINYL COVE BASE	CMU / MMR PAINT	ACQUS / 9'-0"	
A104	VESTIBULE	SEALED CONC.	VINYL COVE BASE	CMU / MMR PAINT	ACQUS / 9'-0"	
A105	BOOKING	SEALED CONC.	VINYL COVE BASE	CMU / MMR PAINT	PAINTED STRUC.	
A106	INTOXIMETER	SEALED CONC.	VINYL COVE BASE	CMU / MMR PAINT	ACQUS / 9'-0"	
A107	STAIR #1	SEALED CONC.	VINYL COVE BASE	CMU / PAINT	ACQUS / 9'-0"	
A108	TOILET	SEALED CONC.	VINYL COVE BASE	CMU / MMR PAINT	ACQUS / 8'-0"	BATT INSULATION ABOVE ENTIRE CEILING
A109	EVIDENCE	SEALED CONC.	VINYL COVE BASE	CMU / MMR PAINT	PAINTED STRUC.	
A110	GARAGE	SEALED CONC.	--	CMU / PAINT	PAINTED STRUC.	
A111	SHOWER #1	CT	CT W/GOVE	1/2" CMT BD / CT	ACQUS / 9'-0"	BATT INSULATION ABOVE ENTIRE CEILING SHOWER, TILED CEILING @ 8'-6"
A112	STORAGE	SEALED CONC.	--	CMU / PAINT	ACQUS / 9'-0"	
A113	SHOWER #2	CT	CT W/GOVE	1/2" CMT BD / CT	ACQUS / 9'-0"	BATT INSULATION ABOVE ENTIRE CEILING SHOWER, TILED CEILING @ 8'-6"
A114	SHOWER #3	CT	CT W/GOVE	1/2" CMT BD / CT	ACQUS / 9'-0"	BATT INSULATION ABOVE ENTIRE CEILING SHOWER, TILED CEILING @ 8'-6"
A115	SHOWER #4	CT	CT W/GOVE	1/2" CMT BD / CT	ACQUS / 9'-0"	BATT INSULATION ABOVE ENTIRE CEILING SHOWER, TILED CEILING @ 8'-6"
A116	LOCKER ROOM	SEALED CONC.	VINYL COVE BASE	CMU / MMR PAINT	ACQUS / 9'-0"	BATT INSULATION ABOVE ENTIRE CEILING
B100	STAIR #2	SEALED CONC.	VINYL COVE BASE	CMU / PAINT	ACQUS / 9'-0"	
B101	VESTIBULE	SEALED CONC.	VINYL COVE BASE	DR / PAINT	ACQUS / 9'-0"	
B102	OFFICE #1	SEALED CONC.	VINYL COVE BASE	DR / PAINT	ACQUS / 9'-0"	
B103	OFFICE #2	SEALED CONC.	VINYL COVE BASE	DR / PAINT	ACQUS / 9'-0"	
B104	TOILET	CT	CT W/GOVE	1/2" CMT BD / CT	ACQUS / 8'-0"	BATT INSULATION ABOVE ENTIRE CEILING
B105	CORRIDOR	SEALED CONC.	VINYL COVE BASE	DR / PAINT	ACQUS / 9'-0"	
B106	HATCH ROOM	SEALED CONC.	VINYL COVE BASE	DR / PAINT	ACQUS / 9'-0"	
B107	JANITOR	SEALED CONC.	VINYL COVE BASE	DR / PAINT	ACQUS / 8'-0"	
B108	GYM	RUBBER	VINYL COVE BASE	CMU / PAINT	PAINTED STRUC.	
B109	CLEAN ROOM	SEALED CONC.	VINYL COVE BASE	CMU / MMR PAINT	ACQUS / 9'-0"	
B110	APPARATUS BAY	SEALED CONC.	--	CMU / PAINT	PAINTED STRUC.	
B111	SLIDE	SEALED CONC.	--	CMU / PAINT	PAINTED STRUC.	
B112	TOOLS	SEALED CONC.	--	CMU / PAINT	PAINTED STRUC.	
B113	GEAR STORAGE	SEALED CONC.	--	CMU / PAINT	PAINTED STRUC.	
B114	STORAGE	SEALED CONC.	--	CMU / PAINT	PAINTED STRUC.	
2nd FLOOR						
A200	CONFERENCE	LVT	VINYL COVE BASE	DR / PAINT	ACQUS / 9'-0"	
A201	INVESTIGATORS	LVT	VINYL COVE BASE	DR / PAINT	ACQUS / 10'-0"	
A202	BREAKROOM	LVT	VINYL COVE BASE	DR / PAINT	PAINTED STRUC.	
A203	PATROL WORK AREA	LVT	VINYL COVE BASE	DR / PAINT	PAINTED STRUC.	
A204	SERGEANTS	LVT	VINYL COVE BASE	DR / PAINT	ACQUS / 10'-0"	
A205	CAPTAIN	LVT	VINYL COVE BASE	DR / PAINT	ACQUS / 9'-0"	
A206	CORRIDOR	LVT	VINYL COVE BASE	DR / PAINT	ACQUS / 9'-0"	
A207	WOMEN	CT	CT W/GOVE	1/2" CMT BD / CT	ACQUS / 8'-0"	BATT INSULATION ABOVE ENTIRE CEILING
A208	MEN	CT	CT W/GOVE	1/2" CMT BD / CT	ACQUS / 8'-0"	BATT INSULATION ABOVE ENTIRE CEILING
A209	JANITOR	STAINED CONC.	VINYL COVE BASE	DR / PAINT	ACQUS / 8'-0"	
A210	UTILITY	STAINED CONC.	VINYL COVE BASE	DR / PAINT	ACQUS / 8'-0"	
B200	WORKROOM	STAINED CONC.	VINYL COVE BASE	DR / PAINT	ACQUS / 9'-0"	
B201	BUNK #1	STAINED CONC.	VINYL COVE BASE	DR / PAINT / METAL	ACQUS / 11'-0"	WALLS TO 6'-0" A.F.F. (RE: 2/A20 #8)
B202	BUNK #2	STAINED CONC.	VINYL COVE BASE	DR / PAINT / METAL	ACQUS / 11'-0"	WALLS TO 6'-0" A.F.F. (RE: 2/A20 #8)
B203	BUNK #3	STAINED CONC.	VINYL COVE BASE	DR / PAINT / METAL	ACQUS / 11'-0"	WALLS TO 6'-0" A.F.F. (RE: 2/A20 #8)
B204	BUNK #4	STAINED CONC.	VINYL COVE BASE	DR / PAINT / METAL	ACQUS / 11'-0"	WALLS TO 6'-0" A.F.F. (RE: 2/A20 #8)
B205	BUNK #5	STAINED CONC.	VINYL COVE BASE	DR / PAINT / METAL	ACQUS / 11'-0"	WALLS TO 6'-0" A.F.F. (RE: 2/A20 #8)
B206	SLIDE	STAINED CONC.	VINYL COVE BASE	DR / PAINT	ACQUS / 11'-0"	
B207	BUNK #6	STAINED CONC.	VINYL COVE BASE	DR / PAINT / METAL	ACQUS / 11'-0"	WALLS TO 6'-0" A.F.F. (RE: 2/A20 #8)
B208	BUNK #7	STAINED CONC.	VINYL COVE BASE	DR / PAINT / METAL	ACQUS / 11'-0"	WALLS TO 6'-0" A.F.F. (RE: 2/A20 #8)
B209	BUNK #8	STAINED CONC.	VINYL COVE BASE	DR / PAINT / METAL	ACQUS / 11'-0"	WALLS TO 6'-0" A.F.F. (RE: 2/A20 #8)
B210	BUNK #9	STAINED CONC.	VINYL COVE BASE	DR / PAINT / METAL	ACQUS / 11'-0"	WALLS TO 6'-0" A.F.F. (RE: 2/A20 #8)
B211	CORRIDOR	STAINED CONC.	VINYL COVE BASE	DR / PAINT	ACQUS / 10'-0" / 11'-0"	
B212	STORAGE	STAINED CONC.	VINYL COVE BASE	DR / PAINT	ACQUS / 9'-0"	
B213	MEN'S LOCKER	CT	CT W/GOVE	1/2" CMT BD / CT	ACQUS / 9'-0"	BATT INSULATION ABOVE ENTIRE CEILING SHOWER, TILED CEILING @ 8'-6"
B214	JAN / LAUNDRY	STAINED CONC.	VINYL COVE BASE	DR / MMR PAINT	ACQUS / 9'-0"	
B215	WOMEN'S LOCKER	CT	CT W/GOVE	1/2" CMT BD / CT	ACQUS / 9'-0"	BATT INSULATION ABOVE ENTIRE CEILING SHOWER, TILED CEILING @ 8'-6"
B216	UTILITY	STAINED CONC.	VINYL COVE BASE	DR / PAINT	ACQUS / 9'-0"	
B217	CORRIDOR	STAINED CONC.	VINYL COVE BASE	DR / PAINT	ACQUS / 9'-0"	
B218	IT	STAINED CONC.	VINYL COVE BASE	DR / PAINT	ACQUS / 9'-0"	
B219	MECH. / ELEC.	SEALED CONC.	VINYL COVE BASE	DR / PAINT	PAINTED STRUC.	
B220	STORAGE	STAINED CONC.	VINYL COVE BASE	DR / PAINT	ACQUS / 9'-0"	
B221	PANTRY A, B & C	STAINED CONC.	VINYL COVE BASE	DR / PAINT	ACQUS / 9'-0"	
B221	DAYROOM	STAINED CONC.	VINYL COVE BASE	DR / PAINT	PAINTED STRUC.	
B222	KITCHEN	STAINED CONC.	VINYL COVE BASE	DR / PAINT	PAINTED STRUC.	
	COVERED PATIO	CONC.	--	--	METAL / 10'-6"	BROOM FINISH

CONTRACTOR TO VERIFY ALL DIMENSIONS
 PINNACLE ARCHITECTURE PROFESSIONAL ASSOCIATION
 P.O. BOX 163, SOUTHWEST ROAD, SUITE 200, MATTHEWS, NORTH CAROLINA 28106
 TEL: (704) 841-9533 FAX: (704) 841-9533
 D.R. REYNOLDS COMPANY, INC.
 1705 GREENE PARK ROAD
 STAR, NORTH CAROLINA 27286
 (910) 428-4380
 ISSUE DATE: 04.12.24
 DRAWN BY: JH/JR
 CHECKED BY: JAV/KCS
 PROJECT: 2504
**CONCORD FIRE STATION NO. 6
 DAVID DISTRICT - NEW FACILITY
 CONCORD, NC**
**FINISH SCHEDULE, ENLARGED TOILET
 PLANS & DETAILS**
 REVISION SCHEDULE
 [] DATE REFERENCE
A6.1

GENERAL NOTES

- A. GENERAL CONDITIONS
- A.1 THE CONTRACTOR IS RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION TO ERECT THE STRUCTURE INDICATED ON THE DRAWINGS.
 - A.2 THE STRUCTURE IS DESIGNED TO ACT IN WHOLE AS A COMPLETED UNIT. THE CONTRACTOR SHALL DESIGN AND PROVIDE TEMPORARY BRACING, SHORING, AND SUPPORTS AS REQUIRED UNTIL STRUCTURAL ELEMENTS ARE INSTALLED.
 - A.3 THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DEVIATIONS TO BE MADE FROM THE CONSTRUCTION DOCUMENTS. SUCH NOTIFICATION SHALL BE MADE IN WRITING AND CLEARLY IDENTIFIED IF INCLUDED ON SHOP DRAWINGS/PRODUCT DATA SUBMITTALS. THE CONTRACTOR SHALL NOT PROCEED WITH INSTALLATION OF ALTERNATE CONSTRUCTION UNTIL RECEIPT OF WRITTEN CONFIRMATION OF THE CHANGE FROM THE ENGINEER.
 - A.4 THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN OF CONCRETE FORMWORK AND SHORING.
 - A.5 THE CONTRACTOR SHALL NOT IMPOSE LOADS ON THE STRUCTURE DURING CONSTRUCTION THAT EXCEED THE CAPACITY OF THE STRUCTURE. DESIGN LOADS ARE INDICATED ON THE DRAWINGS.
 - A.6 THE CONTRACTOR IS RESPONSIBLE FOR SCHEDULING INSPECTIONS AND MAKING QUALITY CONTROL TESTS DURING THE COURSE OF THE WORK.
 - A.7 THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE PROTECTION OF PERSONS AND PROPERTY BOTH ON AND/OR ADJACENT TO THE PROJECT SITE. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH APPLICABLE SAFETY REGULATIONS.
 - A.8 STRUCTURAL OPENINGS FOR MATERIALS HANDLING, CONVEYING, MECHANICAL, ELECTRICAL, AND/OR PLUMBING EQUIPMENT SHALL BE VERIFIED WITH THE ACTUAL EQUIPMENT PURCHASED BEFORE PROCEEDING WITH THE STRUCTURAL WORK.
 - A.9 THE INTENT OF THE DRAWINGS IS TO INDICATE SIGNIFICANT SLEEVES AND OPENINGS FOR BUILDING SYSTEMS. OTHER OPENINGS MUST BE REQUIRED. THE CONTRACTOR SHALL COORDINATE WITH BUILDING AGENCIES TO IDENTIFY INCIDENTAL OPENINGS WHICH MAY BE REQUIRED.
- B. FOUNDATIONS/EARTHWORK
- B.1 IF FOOTING SUBGRADE SOILS ARE WET, DISTURBED, UNSTABLE, OR UNSATURABLE MATERIAL THE ENGINEER SHALL BE NOTIFIED. FOUNDATION EXCAVATIONS SHALL BE CLEARED OF DEBRIS, TRASH, AND LOOSE MATERIAL PRIOR TO POURING CONCRETE.
 - B.2 STEPS IN WALL FOOTINGS SHALL NOT EXCEED A SLOPE OF ONE (1) VERTICAL TO TWO (2) HORIZONTAL UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS.
 - B.3 SLAB ON GRADE SUBGRADE/BASE COURSE SHALL BE GRADED LEVEL AND TRUE TO WITHIN A TOLERANCE OF 1 INCH IN 10 FEET AND COMPACTED TO SPECIFIED LIMITS. CONTRACTOR SHALL REPAIR SUBGRADE, INCLUDING STRIKING OFF HIGH SPOTS AND FILLING RUTS PRIOR TO POURING CONCRETE SLAB.
 - B.4 STRUCTURAL FILL AND BACKFILL SHALL BE SUITABLE MATERIAL FREE FROM DEBRIS, LARGE STONES, ORGANIC MATTER, OR OTHER DELETERIOUS MATERIAL. ASTM D 2487 SOIL CLASSIFICATION GROUPS MH, CH, OL, OH, AND PT SHALL NOT BE USED.
 - B.5 GRANULAR BASE MATERIAL SHALL BE NATURALLY OR ARTIFICIALLY GRADED MIXTURE OF NATURAL OR CRUSHED GRAVEL, CRUSHED STONE, AND NATURAL OR CRUSHED SAND. ASTM D 2484 WITH AT LEAST 95 PERCENT PASSING A 1-1/2-INCH SIEVE AND NOT MORE THAN 8 PERCENT PASSING A NO. 200 SIEVE.
 - B.6 DRAINAGE FILL SHALL BE WASHED, EVENLY GRADED MIXTURE OF CRUSHED STONE, OR CRUSHED OR 1/4-INCH MAXIMUM AGGREGATE GRADE SIZE 57, WITH 100 PERCENT PASSING A 1-1/2-INCH SIEVE AND NOT MORE THAN 5 PERCENT PASSING A NO. 8 SIEVE.
 - B.7 COMPACT EXISTING SUBGRADE SOILS AND EACH LAYER OF FILL OR BACKFILL UNDER STRUCTURES AND BUILDING SLABS AND TO 10 FEET BEYOND BUILDING LINES TO 95 PERCENT MAXIMUM DRY DENSITY ACCORDING TO ASTM D 698. COMPACT FILL OR BACKFILL WITHIN 12 INCHES OF LAB OR FOUNDATION SUBGRADE TO 98 PERCENT OF MAXIMUM DRY DENSITY ACCORDING TO ASTM D698.
- C. CONCRETE WORK
- C.1 CONCRETE WORK SHALL COMPLY WITH PROVISIONS OF ACI 301 AND ACI 318. CONCRETE CONSTRUCTION TOLERANCES SHALL BE AS SET FORTH IN ACI 117. PROVISIONS OF ACI 308 AND ACI 308 SHALL APPLY TO WEATHER CONDITIONS, MATERIALS, AND FINISH SHALL BE IN COMPLIANCE WITH PROVISIONS OF ACI 347.
 - C.2 CONTRACTOR SHALL SUBMIT CONCRETE MIXES FOR APPROVAL PRIOR TO THE START OF WORK. CONCRETE SHALL HAVE A SLUMP OF 3-5" AT POINT OF DISCHARGE. CONCRETE EXPOSED TO WEATHER SHALL BE ENRICHED WITH 4 TO 7 PERCENT AIR CONTENT. CONCRETE ADMixTURES SHALL HAVE NO MORE THAN 0.1% CHLORIDE ION CONTENT. FLY ASH SHALL NOT BE USED IN CONCRETE EXPOSED TO WEATHER.
 - C.3 MINIMUM 28 DAY CONCRETE COMPRESSIVE STRENGTHS ARE TO BE AS FOLLOWS:
INTERIOR FLOOR SLABS: SEE PLAN
EXTERIOR FLOOR SLABS: 4000PSI
WALL AND COLUMN FOOTINGS: 3000PSI U.N.O.
 - C.4 DEFORMED REINFORCING BARS ARE TO CONFORM TO ASTM A615 GRADE 60.
 - C.5 UNLESS OTHERWISE SHOWN ON DRAWINGS, MINIMUM COVER FOR REINFORCING STEEL SHALL BE AS FOLLOWS:
CONCRETE CAST AGAINST EARTH 3"
WALLS AND PIERS (OVER VERTICAL REINFORCING) 2"
SLABS (NO. 5 BARS AND SMALLER) 1-1/2"
SLABS (NO. 6 BARS AND LARGER) 2"
 - C.6 REINFORCING SHALL BE HELD SECURELY IN POSITION WITH STANDARD ACCESSORIES DURING CONCRETE PLACEMENT IN CONFORMANCE WITH THE PROVISIONS OF THE CSI MANUAL OF STANDARD PRACTICE AND ACI 315. REINFORCING STEEL SHALL BE KEPT FROM WELD, WARE, OR OTHER HARMFUL MATERIALS, RUST, GREASE OR OIL, OR OTHER MATTER WHICH MAY PREVENT PROPER BOND AND DEVELOPMENT.
 - C.7 UNLESS OTHERWISE NOTED, SPLICES IN REINFORCING WHERE PERMITTED SHALL BE AS FOLLOWS:
DEFORMED REINFORCING BARS SEE SCHEDULE
WELDED WIRE FABRIC 6 INCH OVERLAP
 - C.8 HOOKS IN REINFORCING BARS SHALL BE ACI STANDARD HOOKS UNLESS OTHERWISE SHOWN OR NOTED ON THE DRAWINGS.
 - C.9 COLUMN FOOTINGS ARE TO BE CENTERED ON THE COLUMNS U.N.O.
 - C.10 READY MIXED CONCRETE SHALL CONFORM TO ASTM C94 AND ACI 304. CONCRETE SHALL BE PLACED AS NEAR AS PRACTICABLE TO ITS FINAL LOCATION. CONCRETE SHALL NOT BE ALLOWED TO FALL freely FOR A HEIGHT OF MORE THAN 4 FEET. CONCRETE SHALL BE CONSOLIDATED TO PREVENT VOIDS AND HONEYCOMBS. CONCRETE VIBRATORS SHALL NOT BE USED TO MOVE CONCRETE TO ITS FINAL LOCATION.
 - C.11 CONCRETE SHALL BE PLACED CONTINUOUSLY TO PREVENT COLD JOINTS IN THE WORK. SHOULD A DISRUPTION OCCUR DURING PLACEMENT THE WORK SHALL BE STOPPED AND A CONSTRUCTION JOINT INSTALLED.
 - C.12 CONCRETE SHALL BE CURED USING WET CURING OR CURING COMPOUNDS FOR THE DURATIONS STIPULATED IN ACI BUILDING CODE. DO NOT REMOVE CONCRETE FORMWORK UNTIL CONCRETE HAS ATTAINED SUFFICIENT STRENGTH. INSTALL SHORES OR SUPPORTS WHERE NECESSARY UNTIL CONCRETE ATTAINS DESIGN STRENGTH OR SUBSEQUENT CONSTRUCTION BRACES CONCRETE ELEMENTS.

- D. MASONRY
- D.1 CONCRETE MASONRY CONSTRUCTION SHALL COMPLY WITH NCSCB CHAPTER 21 AND ACI 530.1-15.
 - D.2 CONCRETE MASONRY WALLS SHALL HAVE A MASONRY STRENGTH OF $F_m = 1,500$ PSI. PROVIDE CONCRETE MASONRY UNITS THAT CONFORM TO ASTM C 90, WITH A NET AREA COMPRESSIVE STRENGTH OF 1900 PSI.
 - D.3 MASONRY MORTAR FOR LOAD BEARING MASONRY WALLS SHALL BE TYPE S CONFORMING WITH ASTM C 270.
 - D.4 MAINTAIN A MINIMUM CLEARANCE OF 3/4" FROM MASONRY FACE SHELLS AND WEBS WHERE REINFORCING STEEL IS PLACED IN MASONRY CORES.
 - D.5 CONCRETE SHALL BE PLACED IN 5'-0" MAXIMUM LIFT HEIGHTS AT FILLED CORES UNLESS HIGH LIFT PROCEDURES ARE FOLLOWED DURING GROUTING.
 - D.6 DO NOT PLACE BACKFILL AGAINST OR SET STEEL FRAMING ON MASONRY WALLS UNTIL MORTAR AND GROUT HAVE ATTAINED A MINIMUM OF 3/4 C OF SPECIFIED DESIGN STRENGTH.
 - D.7 PROVIDE GROUT THAT CONFORMS TO THE REQUIREMENTS OF ASTM C 476 WITH A MINIMUM COMPRESSIVE STRENGTH $f_c = 3000$ PSI.
 - D.8 REINFORCING SHALL BE HELD SECURELY IN POSITION WITH STANDARD ACCESSORIES DURING GROUT PLACEMENT.
- E. STEEL WORK
- E.1 STRUCTURAL STEEL SHALL BE PRIMED WITH GRAY PRIMER U.N.O. DO NOT PAINT STEEL IN AREAS TO BE FIREPROOFED. DO NOT PAINT TOP FLANGES OF COMPOSITE BEAMS. DO NOT PAINT TYPING SURFACES OF SLIP-CRITICAL CONNECTIONS. REFER TO THE ARCHITECTURAL DRAWINGS FOR UL ASSEMBLY DETAILS.
 - E.2 BOLTS SHALL BE 3/4 INCH DIA. (ASTM A325) UNLESS OTHERWISE NOTED.
 - E.3 HIGH STRENGTH BOLTS NOT DESIGNATED AS SLIP CRITICAL (SC) MAY BE INSTALLED SNUG TIGHT AS PER A.I.S.C. SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS, SECTION 8C.
 - E.4 WIDE FLANGE SHAPES ARE TO CONFORM TO ASTM A992 ($F_y=50$ KS).
E.5 CHANNELS, PLATES AND ANGLES ARE TO CONFORM TO ASTM A36 ($F_y=36$ KS).
E.6 HSS SHAPES ARE TO CONFORM ASTM A500 GRADE B ($F_y=48$ KS).
 - E.7 MINIMUM SIZE OF FILLET WELDS SHALL CONFORM TO SECTION 72.29 A.I.S.C. SPECIFICATIONS. THROUGH SHOWN OTHERWISE ON ARCHITECTURAL OR STRUCTURAL DRAWINGS.
 - E.8 WELDS ALONG THE LENGTH OF MEMBERS INDICATED ON ARCHITECTURAL OR STRUCTURAL DRAWINGS BUT NOT SIZED SHALL BE A MINIMUM OF 3/16" FILLET, 2" EACH END AND 2" AT 12" C-C, BOTH SIDES.
 - E.9 WELD MATERIAL AND PROCEDURES SHALL CONFORM TO AWS D11. WELDS TO PRIMARY MEMBERS SHALL BE MADE WITH EXXX ELECTRODES.
 - E.10 SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR OPENINGS, SLEEVES, ETC. NOT SHOWN ON THE STRUCTURAL DRAWINGS.
 - E.11 THE STEEL FABRICATOR IS NOT TO USE REPRODUCTIONS OF THE STRUCTURAL DRAWINGS FOR THE ANCHOR SETTING PLANS AND DETAILS.
 - E.12 THE GENERAL CONTRACTOR IS TO ALLOW 2 WEEKS IN THEIR SCHEDULE FOR THE ENGINEER'S REVIEW OF THE SHOP DRAWINGS.
- F. - STEEL DECK
- F.1 SECTION REQUIREMENTS
- F.1.A SUBMITTALS: SHOP DRAWINGS.
 - F.1.B COMPLY WITH SDI PUBLICATION NO. 29, "SPECIFICATIONS AND COMMENTARY FOR STEEL ROOF DECK".
 - F.1.C COMPLY WITH AWS D11, "STRUCTURAL WELDING CODE--STEEL," AND AWS D13, "STRUCTURAL WELDING CODE--SHEET STEEL".
- F.2 MATERIALS
- F.2.A ROOF DECK - PRIME-PAINTED STEEL SHEET: ASTM A1008 (A1008M); SHOP PRIMED.
 - F.2.B COMPOSITE FLOOR DECK - G60 GALVANIZED STEEL SHEET: ASTM A1008 OR ASTM A553.
- F.3 DOCKING
- F.3.A ROOF DECK: FABRICATE PANELS FROM PRIME-PAINTED STEEL SHEET AS FOLLOWS:
1. DECK PROFILE: TYPE WR, WIDE RIB.
2. PROFILE DEPTH: 1-1/2 INCHES (38 MM).
3. DESIGN UNCOATED STEEL THICKNESS: AS NOTED ON PLANS
 - F.3.B FLOOR DECK: FABRICATE PANELS FROM GALVANIZED STEEL SHEET AS FOLLOWS:
1. DECK PROFILE: TYPE 2D CD OR 2 VLI COMPOSITE DECK.
2. PROFILE DEPTH: 2 INCHES (51 MM).
3. DESIGN UNCOATED STEEL THICKNESS: AS NOTED ON PLANS
- F.4 MISCELLANEOUS
- F.4.A ACCESSORIES: MANUFACTURER'S RECOMMENDED ROOF DECK ACCESSORY MATERIALS.
- F.5 DECK INSTALLATION
- F.5.A INSTALL DECK PANELS AND ACCESSORIES ACCORDING TO SDI PUBLICATION NO. 29.
 - F.5.B PLACE, ADJUST, ALIGN AND BEAR DECK PANELS ON STRUCTURE. DO NOT STRETCH OR CONTRACT SIDE LAP INTERLOCKS.
 - F.5.C PLACE DECK PANELS FLAT AND SQUARE AND WELD TO STRUCTURE WITHOUT WARP OR DEFLECTION.
 - F.5.D CUT, REINFORCE, AND FIT DECK PANELS AND ACCESSORIES AROUND OPENINGS AND PROJECTIONS.
 - F.5.E ROOF DECK ACCESSORIES: INSTALL SUMP PANS, SUMP PLATES, RIDGE AND VALLEY PLATES, FINISH STRIPS, COVER PLATES, END CLOSURES, AND REINFORCING CHANNELS, WELD TO SUBSTRATE.
 - F.5.F WIRE BRUSH, CLEAN, AND PAINT SCARRED AREAS, WELDS, AND RUST SPOTS ON BOTH SURFACES OF GALVANIZED DECK PANELS.

F. LIGHT STEEL FRAMING

F.1 PRODUCT IDENTIFICATION

- THE STEEL STUD MANUFACTURERS ASSOCIATION STANDARDS ARE USED IN THIS DRAWINGS ANY MANUFACTURER WHOSE PRODUCT GEOMETRIES MEETS OR EXCEED SSMA STANDARDS ARE ACCEPTABLE. SEE TABLES BELOW FOR SSMA NOMENCLATURE.

MEMBER	DEPTH	WIRE SIZE	GRADE OF STEEL (ONLY SHOWN WHEN MEMBER IS 50KSI)
162	33		
362			

- THE FIRST SET OF NUMBERS INDICATE THE WEB SIZE (NOMINAL MEMBER DEPTH):
6" MEMBER = 600
3 5/8" MEMBER = 362
12" MEMBER = 1200

FLANGE DESIGNATIONS:

LOAD BEARING STUD/JOIST (1 3/8" FLANGE)	S137
LOAD BEARING STUD/JOIST (1 5/8" FLANGE)	S162
LOAD BEARING STUD/JOIST (2" FLANGE)	S200
LOAD BEARING STUD/JOIST (2 1/2" FLANGE)	S250
INTERIOR RYRVAL STUD (1 1/4" FLANGE)	S125
RUNNER TRACK (1 1/4" L2G)	T125

THE LAST TWO NUMBERS INDICATE THE STEEL THICKNESS:

GAGE DESIGN	MINIMUM	SSMA	COLOR COODING
20	0.0346"	0.0328"	33 MILS WHITE
18	0.0451"	0.0428"	43 MILS YELLOW
16	0.0596"	0.0536"	54 MILS GREEN
14	0.0713"	0.0677"	68 MILS ORANGE
12	0.1017"	0.0966"	97 MILS RED

F.2 CONNECTIONS

- ALL SCREW CONNECTIONS ARE BASED ON CCSS TECHNICAL BULLETIN VOL. 2, NO. 1 WHICH OUTLINES THE AISI SPECIFICATION PROVISIONS FOR SCREW CONNECTIONS.

- FOR SCREWS 3/4" MINIMUM CLEARANCE MUST BE MAINTAINED FROM ALL EDGES OF THE STEEL MEMBERS. A 3/4" MINIMUM ON CENTER SPACING MUST BE MAINTAINED BETWEEN ADJACENT SCREWS.

- POWER DRIVEN FASTENER SYSTEMS, EXPANSION ANCHOR SYSTEMS, MASONRY SCREW SYSTEMS, AND ADHESIVE ANCHOR SYSTEMS CONNECTIONS ARE BASED ON LITERATURE PUBLISHED BY HILTI FASTENING SYSTEMS, INC. ALTERNATE MANUFACTURER'S FASTENERS OF COMPARABLE SPECIFICATIONS AND LOAD CAPACITIES ARE ACCEPTABLE.

- IF REQUIRED, ALL WELDED CONNECTIONS ARE TO BE PERFORMED IN ACCORDANCE WITH THE LATEST VERSION OF AWS D1.3-98 SPECIFICATIONS FOR WELDING SHEET STEEL IN STRUCTURES. CONSULT AWS D18.0 WELDING ZINC COATED STEEL AND ANSI STANDARD 24.1 FOR INFORMATION REGARDING SAFE WELDING PROCEDURES.

- MINIMUM WELD THROAT THICKNESS (I) MUST MATCH OR EXCEED THE BASE STEEL THICKNESS OF THE THINNEST CONNECTED PART UNLESS NOTED OTHERWISE.

- IN WELDING, THE ZINC COATING ON STEEL FRAMING WILL BE BURNED AWAY; THEREFORE, A ZINC RICH PAINT MUST BE APPLIED TO THE WELD AREA TO PROVIDE CORROSION RESISTANCE.

FASTENER / CONNECTOR SCHEDULE

NOTES: SEE SECTIONS AND DETAILS FOR LOCATION AND NUMBER OF CONNECTORS

CONNECTOR	SUBSTRATE	DESCRIPTION	PRODUCT	
SCREWS	METAL TRACK	#10-16 x 5/8" FAN HEAD	BUILDEX "TEKS" COMPASS "DARTS" GRABBER SELF DRILLING HILTI KWIK-PRO	
		STUD TO STUD	#10-16 x 5/8" HEX HEAD	BUILDEX "TEKS" COMPASS "DARTS" GRABBER SELF DRILLING HILTI KWIK-PRO
		METAL TO STRUCTURAL STEEL	#12-24 x 1 1/4" HEX HEAD, #5 TIP	BUILDEX "TEKS" HILTI KWIK-PRO
P.A.F.'s	CONCRETE OR GROUTED CMU	0.157" x 1 1/2"	HILTI X-U UNIVERSAL KNURLED SHANK FASTENERS	
		STRUCTURAL STEEL	0.157" x 5/8"	HILTI X-U UNIVERSAL KNURLED SHANK FASTENERS

F.3 STUDS

- ALL FIELD CUTTING OF STUDS MUST BE DONE BY SAWING OR SHEARING. TORCH CUTTING OF COLD-FORMED MEMBERS IS UNACCEPTABLE.
- NO NOTCHING OR COPING OF STUDS IS ALLOWED, UNLESS SHOWN OTHERWISE.
- ENDS OF STUDS MUST SEAT FIRMLY IN RUNNER TRACK, WHICH MUST HAVE FULL BEARING ON STRUCTURE.
- SPLICING OF WALL STUDS IS NOT ALLOWED, UNLESS SHOWN OTHERWISE.

- FRAMING FABRICATOR IS TO ENSURE FINISH OUT ALIGNMENT WHEN ASSEMBLING LATERAL BRACING AND FIELD CUTTING STUDS TO LENGTH. LATERAL BRACING MUST BE INSTALLED AT THE TIME THE WALL IS ERECTED. FAILURE TO INSTALL BRACING AT THIS TIME MAY COMPROMISE THE STRUCTURAL INTEGRITY OF THE BUILDING.
- TEMPORARY BRACING SHALL BE PROVIDED AND REMAIN IN PLACE UNTIL WORK IS COMPLETELY STABILIZED.

F.4 HEADERS

- ALL HEADERS/BUILT-UP BEAMS ARE TO BE CONSTRUCTED WITH UNPUNCHED MATERIAL UNLTY
- SPLICING OF HEADERS IS NOT ALLOWED.

DESIGN CRITERIA

STRUCTURAL DESIGN

UNLESS OTHERWISE NOTED ALL DESIGN IS PER THE 2018 NORTH CAROLINA STATE BUILDING CODE

DESIGN LIVE LOADS:

ROOF LIVE LOAD : (HORIZONTAL PROJECTION) _____ 20 (R1) (R2) PSF
WHERE R1 AND R2 ARE FACTORS PER NCSCB 2018, SECTION 1607.12 "ROOF LOADS"

SNOW : (NCSCB 2018 SECTION 1608 - ASCE 7-10 SECTION 7)
SNOW EXPOSURE FACTOR, C_e _____ 1.0
THERMAL FACTOR, C_t _____ 1.0
IMPORTANCE FACTOR, I _____ 1.20
50 YEAR RECURRENT GROUND SNOW LOAD, P_g _____ 10 PSF

WIND LOADS : (NCSCB 2018 SECTION 1609 - ASCE 7-10 SECTIONS 26-30)
DESIGN WIND SPEED (3 SECOND GUST) _____ $V_{ult} = 120$ MPH
 $V_{ref} = 93$ MPH

RISK CATEGORY _____ IV
EXPOSURE CATEGORY _____ C
INTERNAL PRESSURE COEFFICIENTS _____ +/- 0.18 [ENCLOSED]

COMPONENTS AND CLADDING :
BUILDING COMPONENTS AND CLADDING ENGINEERED BY THE COMPONENT SUPPLIER/MANUFACTURER ARE TO BE DESIGNED BY SUPPLIER'S/MANUFACTURER'S ENGINEER FOR THE WIND LOADS CALCULATED IN ACCORDANCE WITH THE NORTH CAROLINA STATE BUILDING CODE FOR THE ULTIMATE DESIGN WIND SPEED, IMPORTANCE FACTOR AND EXPOSURE CATEGORY LISTED ABOVE.

WIND BASE SHEARS (MWFRS - ULTIMATE) _____ $V_x = XXXX$
 $V_y = XXXX$

SEISMIC DESIGN: ZIP CODE 28027

SITE CLASS: _____ D
MAPPED SPECTRAL ACCELERATION AT 0.2 SEC. S_s : _____ 0.187 g
MAPPED SPECTRAL ACCELERATION AT 1.0 SEC. S_1 : _____ 0.079 g
SITE COEFFICIENT, F_a : _____ 1.60
SITE COEFFICIENT, F_v : _____ 2.40
SOIL MODIFIED SHORT PERIOD
SPECTRAL RESPONSE ACCELERATION, S_{ms} : _____ 0.299 g
SOIL MODIFIED LONG PERIOD
SPECTRAL RESPONSE ACCELERATION, S_{ml} : _____ 0.190 g
SHORT PERIOD SPECTRAL RESPONSE ACCELERATION, S_{D1} : _____ 0.200 g
LONG PERIOD SPECTRAL RESPONSE ACCELERATION, S_{D1} : _____ 0.127 g
OCCUPANCY CATEGORY: _____ IV
OCCUPANCY IMPORTANCE FACTOR, I_E : _____ 1.5
SEISMIC DESIGN CATEGORY: _____ C

BASIC STRUCTURAL SYSTEM:

STEEL SYSTEM NOT SPECIFICALLY
DETAILED FOR SEISMIC RESISTANCE:
RESPONSE MODIFICATION FACTOR: _____ "R" = 3.00
SYSTEM OVER STRENGTH FACTOR: _____ "W_o" = 3.00
DEFLECTION AMPLIFICATION FACTOR: _____ "Cd" = 3.00

ANALYSIS PROCEDURE: _____ EQUIVALENT LATERAL FORCE PROCEDURE

SEISMIC BASE SHEARS: _____ $V_x = XXX$
 $V_y = XXX$
DESIGN MECHANICAL AND ELECTRICAL COMPONENTS PER ASCE 7-10 CHAPTER 13

ALLOWABLE SOIL BEARING CAPACITY: _____ 2000 PSF NET
(STEWART PROJECT NO. F23023.00 DATED 10-18-2023)

DRAWING LIST

S0.1	RO	STRUCTURAL NOTES
S0.2	RO	SPECIAL INSPECTIONS
S1.1	RO	FOUNDATION PLAN
S1.2	RO	SECOND FLOOR FRAMING PLAN
S1.3	RO	ROOF FRAMING PLAN
S2.1	RO	ELEVATOR PLANS AND BRACE ELEVATION
S2.2	RO	ELEVATOR SHAFT SECTIONS
S2.3	RO	MASONRY WALL ELEVATIONS
S2.4	RO	MASONRY WALL ELEVATIONS
S2.5	RO	SITE RETAINING WALL DETAILS
S3.1	RO	FOUNDATION DETAILS
S3.2	RO	FOUNDATION DETAILS
S3.3	RO	FLOOR FRAMING DETAILS
S3.4	RO	FLOOR FRAMING DETAILS
S3.5	RO	FLOOR FRAMING DETAILS
S3.6	RO	ROOF FRAMING DETAILS
S3.7	RO	ROOF FRAMING DETAILS
S3.8	RO	LSF FRAMING DETAILS
S4.1	RO	LSF FRAMING ELEVATIONS
S4.2	RO	LSF FRAMING ELEVATIONS
S4.3	RO	LSF FRAMING ELEVATIONS
S4.4	RO	LSF FRAMING ELEVATIONS & DETAILS

R- = REVISION NUMBER

REQUIRED SUBMITTALS

- 1) CONCRETE MIX DESIGNS
- 2) REINFORCING STEEL SHOP DRAWINGS
- 3) STRUCTURAL STEEL SHOP DRAWINGS
- 4) STEEL DECK
- 5) LSF FRAMING PRODUCTS
- 6) MASONRY PRODUCTS
- 7) STEEL STAIR AND RAIL SHOP DRAWINGS
- 8) INSULATED METAL PANELS AND WALL GIRTS

THE GENERAL CONTRACTOR IS TO ALLOW 2 WEEKS IN THEIR SCHEDULE FOR THE ENGINEER'S REVIEW OF THE SHOP DRAWINGS/SUBMITTALS.

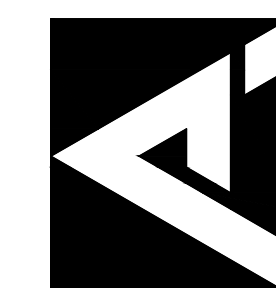
DELEGATED DESIGNS

- (1) THE STEEL STAIRS ARE TO BE DESIGNED BY THE STAIR SUPPLIER'S ENGINEER IN ACCORDANCE WITH THE NORTH CAROLINA STATE BUILDING CODE. SUBMIT STAIR SHOP DRAWINGS WITH SEALED CALCULATIONS FOR APPROVAL.
- (2) THE INSULATED METAL PANEL TO WALL GIRT CONNECTIONS ARE TO BE DESIGNED BY THE SIDING SUPPLIER'S ENGINEER IN ACCORDANCE WITH THE NORTH CAROLINA STATE BUILDING CODE. SUBMIT SIDING SHOP DRAWINGS WITH CONNECTION DETAILS FOR APPROVAL.
- (3) THE WALL GIRTS AND THEIR CONNECTIONS TO THE METAL STUDS ARE TO BE DESIGNED BY THE GIRT SUPPLIER'S ENGINEER IN ACCORDANCE WITH THE NORTH CAROLINA STATE BUILDING CODE. SUBMIT GIRT SHOP DRAWINGS WITH CONNECTION DETAILS FOR APPROVAL.

PINNACLE ARCHITECTURE
PROFESSIONAL ASSOCIATION
20213
11.10.2024
REGISTERED ARCHITECT
NORTH CAROLINA

700 EAST BRAY STREET, SUITE 302
CHARLESTON, NORTH CAROLINA 28106
PH: (853) 972-5267 FAX: (853) 972-5268

700 EAST BRAY STREET, SUITE 300
MATTHEWS, NORTH CAROLINA 28106
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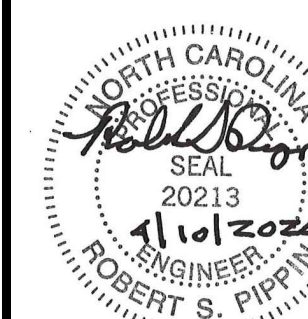
D. R. REYNOLDS COMPANY, INC.
1750 WILMINGTON AVENUE
STAIR, NORTH CAROLINA 27886
(810) 428-1360

ISSUED DATE: 4.10.24
DRAWN BY: HLS
CHECKED BY: RSP
PROJECT:

CONCORD FIRE STATION NO. 6
DAVID DISTRICT - NEW FACILITY
CONCORD, NC

STRUCTURAL NOTES
AND DESIGN CRITERIA

ISSUE SCHEDULE
DATE REFERENCE
4/10/2024 CONSTRUCTION SET



SPECIAL INSPECTIONS

REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION				
TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD	IBC REFERENCE
1. INSPECT REINFORCEMENT INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.	—	X	ACI 318: CH. 20, 25.2, 25.3, 26.6.1-26.6.3	1908.4
2. REINFORCING BAR WELDING: a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706 b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16", AND c. INSPECT ALL OTHER WELDS	—	X	AWS D1.4 ACI 318: 26.6.4	—
3. INSPECT ANCHORS CAST IN CONCRETE	—	X	ACI 318: 17.8.2	—
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS: a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.b.	X	X	ACI 318: 17.8.2.4	—
5. VERIFYING USE OF REQUIRED DESIGN MIX.	—	X	ACI 318: CH. 19, 28.4.3, 28.4.4	1904.1, 1904.2, 1908.2, 1908.3
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	—	ASTM C172 ASTM C31 ACI 318: 26.4, 26.12	1908.10
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X	—	ACI 318: 26.5	1908.6, 1908.7, 1908.8
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	—	X	ACI 318: 26.5.3-26.5.5	1908.9
9. INSPECT PRESTRESSED CONCRETE FOR: a. APPLICATION OF PRESTRESSING FORCES; AND b. GROUTING OF BONDED PRESTRESSING TENDONS	X	—	ACI 318: 26.10	—
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS	—	X	ACI 318: CH. 26.8	—
11. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS	—	X	ACI 318: 26.11.2	—
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED	—	X	ACI 318: 26.11.1.2 (b)	—

REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION				
VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD	
1. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS:				
A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	—	X	AISC 360, SECTION A3 AND APPLICABLE ASTM MATERIAL STANDARDS	
B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	—	X		
2. INSPECTION OF HIGH-STRENGTH BOLTING:				
A. SNUG-TIGHT JOINTS.	—	X		
B. PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN-OF-NUT WITH MATCHMARKING, TWIST-OFF BOLT OR DIRECT TENSION INDICATOR METHODS OF INSTALLATION.	—	X	AISC 360 SECTION N5.6	
C. PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN-OF-NUT WITHOUT MATCHMARKING OR CALIBRATED WRENCH METHODS OF INSTALLATION.	X	—		
3. MATERIAL VERIFICATION OF STRUCTURAL STEEL AND COLD-FORMED STEEL DECK:				
A. FOR STRUCTURAL STEEL, IDENTIFICATION MARKINGS TO CONFORM TO AISC 360.	—	X	AISC 360, SECTION N2	
B. FOR OTHER STEEL, IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	—	X	APPLICABLE ASTM STANDARDS	
C. MANUFACTURER'S CERTIFIED TEST REPORTS.	—	X		
4. MATERIAL VERIFICATION OF WELD FILLER MATERIALS:				
A. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS.	—	X	AISC 360, SECTION A3.5 AND APPLICABLE AWS AS DOCUMENTS	
B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	—	X		
5. INSPECTION OF WELDING:				
A. STRUCTURAL STEEL AND COLD-FORMED DECK:				
1) COMPLETE AND PARTIAL PENETRATION GROOVE WELDS.	X	—		AWS D1.1
2) MULTIPASS FILLET WELDS.	X	—		
3) SINGLE-PASS FILLET WELDS > 5/16".	X	—		
4) PLUG AND SLOT WELDS.	X	—		
5) SINGLE-PASS FILLET WELDS 5/16" OR SMALLER.	—	X		
6) FLOOR AND ROOF DECK WELDS.	—	X		AWS D1.3
6. INSPECTION OF STEEL ELEMENTS OF COMPOSITE CONSTRUCTION PRIOR TO CONCRETE PLACEMENT:				
A. PLACEMENT AND INSTALLATION OF STEEL DECK.	—	X		
B. PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS.	—	X	AISC 360, SECTION N6	
C. DOCUMENT ACCEPTANCE OR REJECTION OF STEEL ELEMENTS.	—	X		
7. INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE:				
A. DETAILS SUCH AS BRACING AND STIFFENING.	—	X		
B. MEMBER LOCATIONS.	—	X		
C. APPLICATION OF JOINT DETAILS AT EACH CONNECTION.	—	X		

REQUIRED SPECIAL INSPECTIONS AND TESTS OF SOILS			
TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	—	X	
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	—	X	
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	—	X	
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	—	
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	—	X	

REQUIRED TESTS AND MINIMUM SPECIAL INSPECTION OF MASONRY CONSTRUCTION LEVEL C QUALITY ASSURANCE - MINIMUM TESTS				
VERIFICATION OF F _m AND F _{0.95c} IN ACCORDANCE WITH SPECIFICATION ARTICLE 1.4B PRIOR TO CONSTRUCTION AND FOR EVERY 5000 SQ. FT. (465 SQ. M) DURING CONSTRUCTION				
VERIFICATION OF PROPORTIONS OF MATERIALS IN PREMIXED OR PREBLENDED MORTAR, PRESTRESSING GROUT, AND GROUT OTHER THAN SELF-CONSOLIDATING GROUT, AS DELIVERED TO THE PROJECT SITE				
VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) AS DELIVERED TO THE PROJECT SITE IN ACCORDANCE WITH SPECIFICATION ARTICLE 1.5 B.1.b.3 FOR SELF-CONSOLIDATING GROUT				
MINIMUM SPECIAL INSPECTION				
INSPECTION TASK	FREQUENCY		REFERENCE FOR CRITERIA	
	CONTINUOUS	PERIODIC	TMS 402/ ACI 530/ ASCE 5	TMS 602/ ACI 530.1/ ASCE 6
1. VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS	—	X	—	ART. 1.5
2. VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE: a. PROPORTIONS OF SITE-MIXED MORTAR, GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS	—	X	—	ART. 2.1, 2.6 A, 2.6 B, 2.6 C, 2.4 C.1.b
b. GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS; AND PRESTRESSING TENDONS AND ANCHORAGES	—	X	SEC. 6.1	ART. 2.4, 3.4
c. PLACEMENT OF MASONRY UNITS AND CONSTRUCTION OF MORTAR JOINTS	—	X	—	ART. 3.3 B
d. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES	X	—	SEC. 6.1, 6.2.1, 6.2.6, 6.2.7	ART. 3.2 E, 3.4, 3.6 A
e. GROUT SPACE PRIOR TO GROUTING	X	—	—	ART. 3.2 D, 3.2 F
f. PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS	X	—	—	ART. 3.5, 3.6 C
g. SIZE AND LOCATION OF STRUCTURAL ELEMENTS	—	X	—	ART. 3.3 F
h. TYPE, SIZE AND LOCATION OF ANCHORS INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION	X	—	SEC. 1.2.1(e), 6.1.4.3, 6.2.1	—
i. WELDING OF REINFORCEMENT	X	—	SEC. 8.1.6.2, 9.3.3.4(c), 11.3.3.4(b)	—
j. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F [4.4°C]) OR HOT WEATHER (TEMPERATURE ABOVE 90°F [32.2°C])	—	X	—	ART. 1.8 C, 1.8 D
k. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE	X	—	—	ART. 3.6 B
l. PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS	X	—	—	ART. 3.3 B.9, 3.3 F.1.b
m. PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY	X	—	—	ART. 2.1 C.1
3. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS	X	—	—	ART. 1.4 B.2.a.3, 1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B.3, 1.4 B.4

STATEMENT OF SPECIAL INSPECTIONS

STATEMENT DATE: APRIL 10, 2024

PROJECT NAME: CONCORD FIRE STATION #6

PROJECT ADDRESS: 9102 AVIATION BLVD SW
CONCORD, NC 28027

DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE (DP/RC): ROBERT S. PIPPIN, PE

THE FOLLOWING INFORMATION IS BEING SUBMITTED IN ACCORDANCE WITH THE SPECIAL INSPECTION PROVISIONS OF THE NORTH CAROLINA STATE BUILDING CODE. INCLUDED IS THE SCHEDULE OF SPECIAL INSPECTIONS (SSI) REQUIRED FOR THE PROJECT. THIS COMPLETED FORM IS REQUIRED TO BE PLACED ON THE DRAWINGS FOR PLAN REVIEW. AFTER PERMIT ISSUANCE, A LISTING OF THE SPECIAL INSPECTION FIRMS (SIF) AND THE DESIGNATED SPECIAL INSPECTORS (DSI) FOR EACH INSPECTION TYPE WILL BE REQUIRED PRIOR TO SCHEDULING THE PRE-CONSTRUCTION MEETING WITH CITY OF CONCORD CODE ENFORCEMENT. NO WORK IS PERMITTED TO BE PERFORMED PRIOR TO THE SPECIAL INSPECTIONS PRECONSTRUCTION MEETING.

THE DSI IS RESPONSIBLE FOR VERIFYING ALL INFORMATION ON EACH DOCUMENT PRIOR TO SIGNING/SEALING. THE DSI IS RESPONSIBLE FOR VERIFYING EACH DOCUMENT IS THE CORRECT DOCUMENT. THE DSI IS RESPONSIBLE FOR CORRECTING ANY DOCUMENTS THAT CONTAIN ERRORS. THE DSI IS RESPONSIBLE FOR VERIFYING ALL AUTHORIZED SPECIAL INSPECTORS (ASI) MAINTAIN CURRENT CERTIFICATIONS DURING THE COURSE OF THE PROJECT, AS FAILURE TO MAINTAIN CURRENT CERTIFICATIONS MAY RESULT IN A VOIDED DOCUMENT. AT THE CONCLUSION OF EACH INDIVIDUAL INSPECTION TYPE, THE DSI WILL COMPLETE A FINAL REPORT. THE DP/RC IS RESPONSIBLE FOR COMPLETING THE DP/RC LETTER AT THE CONCLUSION OF ALL SPECIAL INSPECTIONS.

THE SPECIAL INSPECTION PROGRAM OUTLINES HEREIN, DOES NOT RELIEVE THE CONTRACTOR OR ANY OTHER ENTITY OF ANY CONTRACTUAL DUTIES INCLUDING QUALITY CONTROL, QUALITY ASSURANCE OR SAFETY. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS AND JOBSITE SAFETY. FAILURE TO ADHERE TO THE SI PROGRAM AS OUTLINED MAY RESULT IN A STOP WORK NOTICE BEING ISSUED BY THE DEPARTMENT.

RESPECTFULLY SUBMITTED,
THE DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE,

ROBERT S. PIPPIN, PE
4-10-2024

SPECIAL INSPECTIONS NOTES:

- EACH SPECIAL INSPECTOR SHALL MEET THE REPORT REQUIREMENTS OF SECTION 1704.2.4 OF THE 2018 NC STATE BUILDING CODE. INTERIM REPORTS SHALL BE SUBMITTED TO THE OWNER, GENERAL CONTRACTOR, STRUCTURAL ENGINEER, ARCHITECT OF RECORD AND LOCAL BUILDING INSPECTOR ON A MONTHLY BASIS. A FINAL REPORT OF SPECIAL INSPECTIONS DOCUMENTING COMPLETION OF ALL REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES SHOULD BE SUBMITTED PRIOR TO ISSUANCE OF A CERTIFICATE OF USE AND OCCUPANCY.
- THE INSPECTION AND TESTING AGENCY SHALL BE EMPLOYED BY THE OWNER PER 2018 NCSCB SECTION 1704.2.
- SPECIAL INSPECTIONS OF STRUCTURAL STEEL SHALL BE PERFORMED IN THE STEEL FABRICATOR'S SHOP AS INDICATED IN THE SCHEDULE OF SPECIAL INSPECTIONS UNLESS THE FABRICATOR IS REGISTERED AND APPROVED TO PERFORM STEEL FABRICATION WITHOUT SPECIAL INSPECTIONS AS DEFINED IN NCSCB SECTION 1704.2.5.1.
- STRUCTURAL OBSERVATIONS FOR WIND RESISTANCE PER NCSCB SECTION 1704.6.2 ARE NOT REQUIRED. STRUCTURE IS LOCATED IN WIND EXPOSURE CATEGORY C ZONE AND V_{ULT} IS LESS THAN 142 MPH.
- STRUCTURAL OBSERVATIONS FOR SEISMIC RESISTANCE PER NCSCB SECTION 1704.6.1 ARE NOT REQUIRED. STRUCTURE IS ASSIGNED TO SEISMIC DESIGN CATEGORY C.
- QUALITY CONTROL AND QUALITY ASSURANCE PROVISIONS OF AISC 341-10 AND AWS D1.8 SHALL APPLY TO THIS PROJECT.


ISSUE DATE: 4.10.24
DRAWN BY: HLS
CHECKED BY: RSP
PROJECT:

CONCORD FIRE STATION NO. 6
DAVID DISTRICT - NEW FACILITY
CONCORD, NC

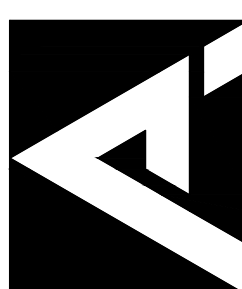
DATE	REFERENCE
4/10/2024	CONSTRUCTION SET

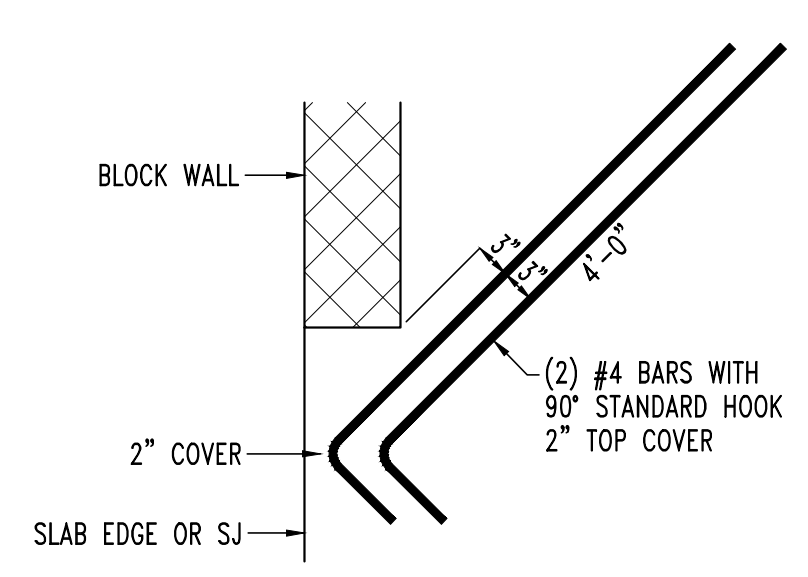
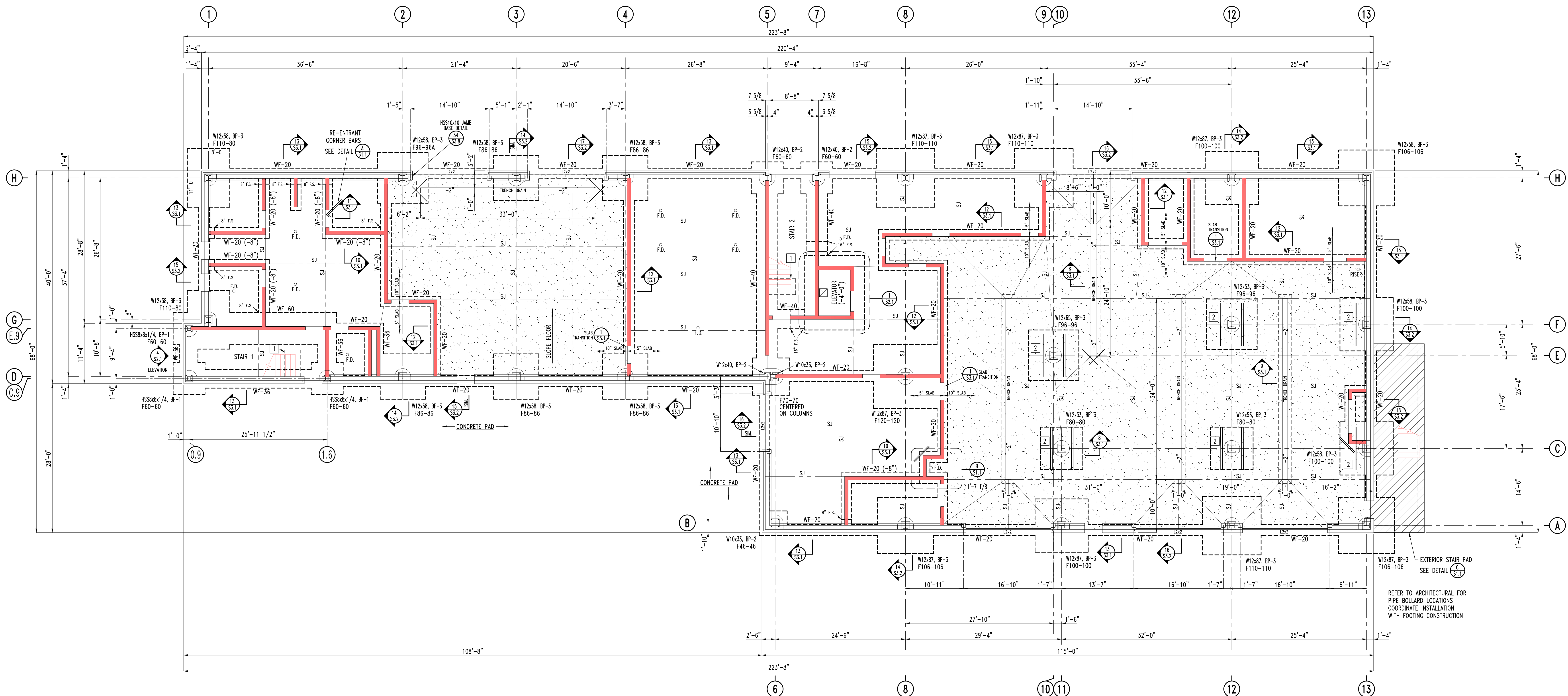
P.E. PROJECT NO. 23-1321
SO.2

PIPPIN ENGINEERING, PLLC
 STRUCTURAL ENGINEERING
 507 EAST LOUISE AVENUE
 LIBERTY, NC 27268
 PHONE: (336) 825-2045
 FAX: (336) 825-2046
 EMAIL: rppippin@pe-inc.com

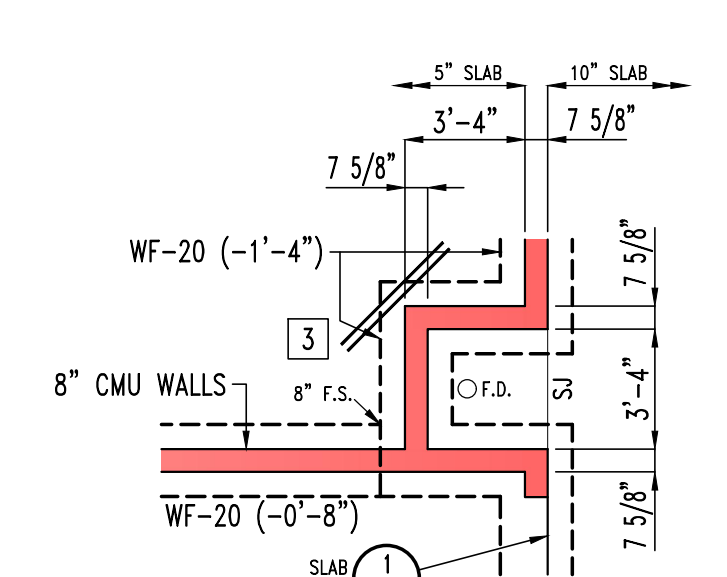

 NORTH CAROLINA
 PROFESSIONAL ENGINEER
 ROBERT S. PIPPIN
 No. 11012
 expires 12/31/2024

PINNACLE ARCHITECTURE PROFESSIONAL ASSOCIATION
 701 EAST BAY STREET, SUITE 302
 CHARLESTON, SOUTH CAROLINA, 29403
 TEL: (803) 782-5005 FAX: (803) 782-5578
 P.O. BOX 114, BARTLETT ROAD, SUITE 210
 MATTHEWS, NORTH CAROLINA, 28106
 TEL: (704) 847-9511 FAX: (704) 847-9533

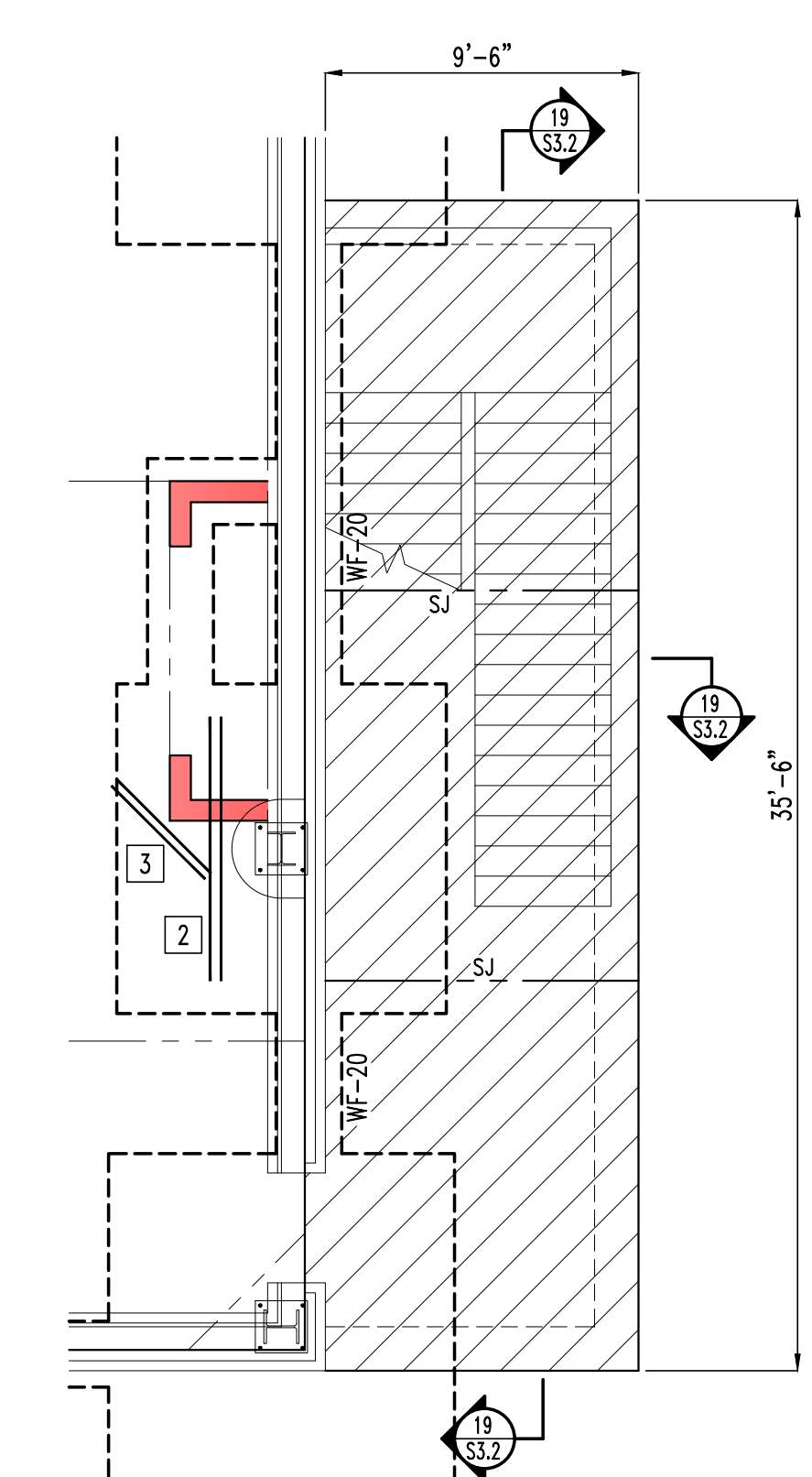

D. R. REYNOLDS COMPANY, INC.
 1500 SOUTH COLLETT ROAD
 STAFF, NORTH CAROLINA 27866
 (910) 628-3360



FOUNDATION DETAIL
SCALE: 3/4" = 1'-0"



ENLARGED PLAN
SCALE: 3/16" = 1'-0"



ENLARGED PLAN
SCALE: 3/16" = 1'-0"



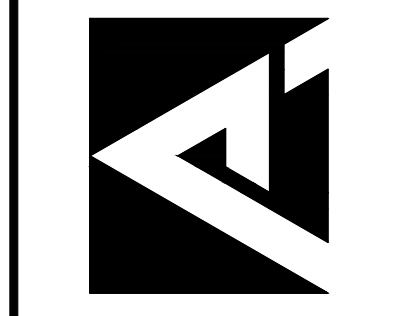
FOUNDATION PLAN

- SCALE: 1/8" = 1'-0"
- SEE SITE PLAN FOR FINISHED FLOOR ELEVATION.
 - TOP OF FOOTING ELEVATIONS ARE (-1'-4") RELATIVE TO TOP OF SLAB REFERENCE ELEVATION 0'-0" UNLESS NOTED OTHERWISE.
 - MINIMUM 28 DAY CONCRETE COMPRESSIVE STRENGTHS ARE TO BE AS FOLLOWS:
INTERIOR FLOOR SLABS: 4000 PSI (STRAIGHT CEMENT MIX)
EXTERIOR FLOOR SLABS: 4000 PSI (STRAIGHT CEMENT MIX WITH 5% ENTRAINED AIR)
FLOOR SLAB CONCRETE SLUMP: 4" (+/-1")
MAXIMUM WATER/CEMENT RATIO = 0.50
 - WALL AND COLUMN FOOTINGS: 3000 PSI U.N.O.
 - DEFORMED REINFORCING BARS ARE TO CONFORM TO ASTM A615 GRADE 60.
 - THE NET ALLOWABLE SOIL BEARING PRESSURE = 2000 PSF (STEWART PROJECT NO. F23023.00 DATED 10-18-2023)
 - COLUMN FOOTINGS ARE TO BE CENTERED U.N.O.
 - MAINTAIN 3" CLEAR FROM THE EARTH TO THE BOTTOM REINFORCING BARS.
 - SUPPORT REINFORCING BARS USING STANDARD REINFORCING ACCESSORIES.
 - THE FOUNDATION PLAN AND RELATED DETAILS ARE NOT TO BE USED BY THE FABRICATOR AS THEIR ANCHOR ROD SETTING PLAN AND ANCHOR ROD SETTING DETAILS.
 - SJ DENOTES "SOFF-CUT" SAW JOINT
 - IT IS NORMAL TO EXPECT SOME SLAB CRACKING AND EDGE CURLING WITH SLABS ON GRADE AND THIS DOES NOT NECESSARILY REFLECT ADVERSELY ON ADEQUACY OF THE FLOOR DESIGN OR QUALITY OF CONSTRUCTION.
 - SUBGRADE TO BE PREPARED PER GEOTECHNICAL REPORT.
 - COORDINATE FOOTINGS WITH PLUMBING LINES. REFER TO S3.1 FOR DETAILS TO BE USED WHERE PLUMBING LINES CROSS FOOTINGS.
 - STEP FOOTINGS DOWN WHERE REQUIRED AT ROOF LEADER PIPING.

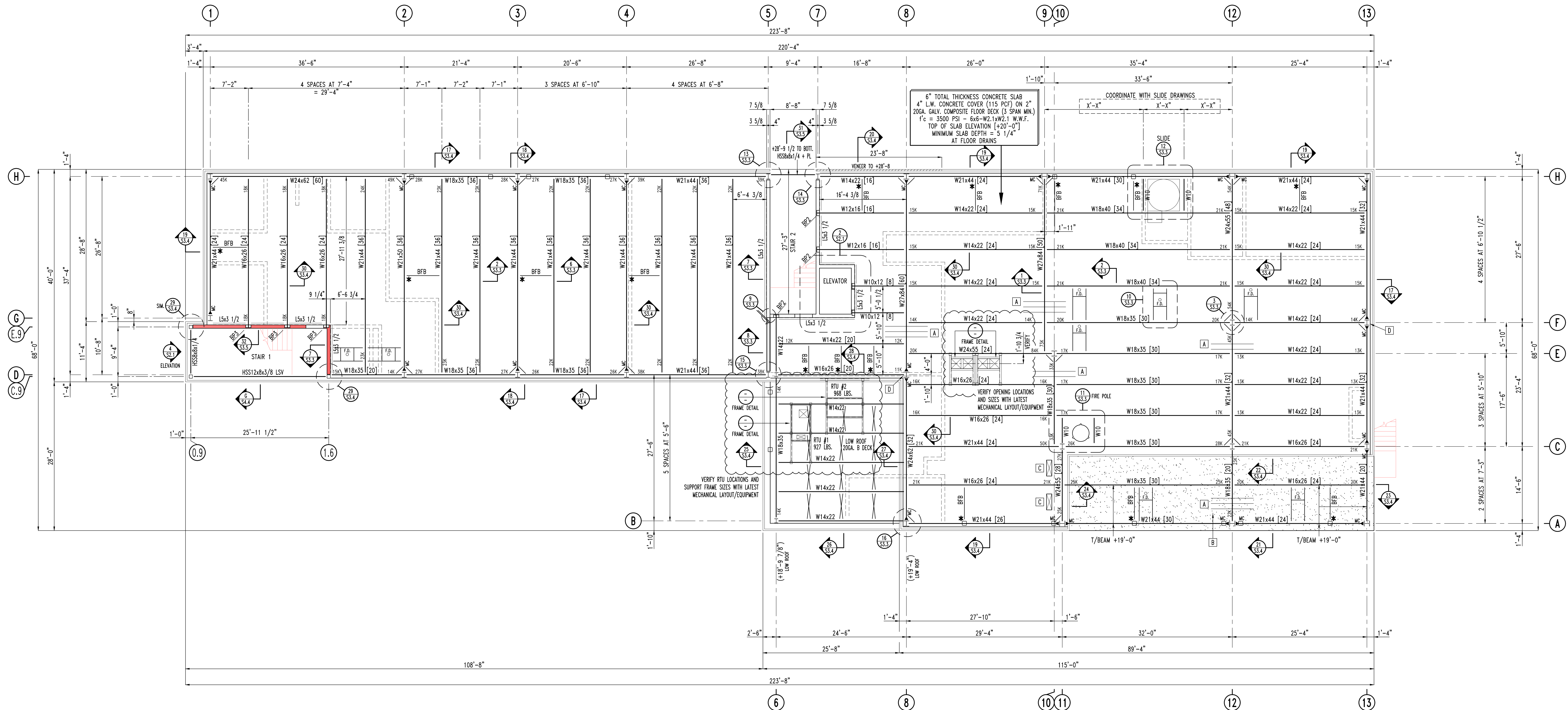
- TYPICAL SLAB UNLESS NOTED OTHERWISE
- 5" 4000 PSI NORMAL WEIGHT CONCRETE SLAB REINFORCED WITH 6x6-W1.4xW1.4 WWF OR 3 LBS./CY MACRO SYNTHETIC FIBERS
 - 15 MIL STEGO VAPOR RETARDER ON 4" COMPACTED ABC
 - 10" 4000 PSI NORMAL WEIGHT CONCRETE SLAB REINFORCED WITH 4x4-W2.9xW2.9 WWF
 - 15 MIL STEGO VAPOR RETARDER ON 4" COMPACTED ABC REFER TO 1/S3.1 FOR JOINT DETAILS
 - 8" 4000 PSI NORMAL WEIGHT AIR ENTRAINED CONCRETE SLAB REINFORCED WITH #5 BARS AT 12" O/C EACH WAY (CENTERED) 4" COMPACTED ABC BASE - 24" DEEP THICKENED EDGES
- 1 = STAIR SUPPORT FOOTING COORDINATE WITH STAIR SHOP DWGS. 3'-0" x 5'-0" x 0'-8" THICKENED SLAB CENTERED UNDER STRINGERS #4 BARS AT 12" O/C EACH WAY (BOTTOM)
- 2 = (2) #5 BARS x 8'-0" AT 4" O/C 2" FROM TOP OF SLAB
- 3 = (2) #4 BARS x 4'-0" AT 3" O/C 2" FROM TOP OF SLAB
- F.S. = FOOTING STEP ~ SEE DETAIL 1/S3.1
- F.D. = FLOOR DRAIN - COORDINATE WITH PLUMBING DRAWINGS SLOPE SLAB TO DRAINS

COLUMN FOOTING SCHEDULE (2000 PSF)		
MARK	SIZE	REINFORCING
F46-46	4'-6" x 4'-6" x 1'-4"	(5) #5 BARS x 4'-0" EACH WAY (BOTTOM)
F50-50	5'-0" x 5'-0" x 1'-4"	(6) #5 BARS x 4'-6" EACH WAY (BOTTOM)
F60-60	6'-0" x 6'-0" x 1'-4"	(7) #5 BARS x 5'-6" EACH WAY (BOTTOM)
F70-70	7'-0" x 7'-0" x 1'-4"	(8) #5 BARS x 7'-6" EACH WAY (BOTTOM)
F80-80	8'-0" x 8'-0" x 1'-4"	(9) #5 BARS x 7'-6" EACH WAY (BOTTOM)
F86-86	8'-6" x 8'-6" x 1'-5"	(8) #6 BARS x 8'-0" EACH WAY (TOP & BOTTOM)
F110-80	11'-0" x 8'-0" x 1'-9"	(12) #6 BARS x 7'-6" (TOP & BOTTOM) (7) #7 BARS x 10'-6" (TOP & BOTTOM)
F96-96	9'-6" x 9'-6" x 1'-7"	(9) #6 BARS x 9'-0" EACH WAY (BOTTOM)
F96-96A	9'-6" x 9'-6" x 1'-7"	(9) #6 BARS x 9'-0" EACH WAY (TOP & BOTTOM)
F100-100	10'-0" x 10'-0" x 1'-8"	(10) #6 BARS x 9'-6" EACH WAY (TOP & BOTTOM)
F106-106	10'-6" x 10'-6" x 1'-9"	(8) #7 BARS x 10'-0" EACH WAY (TOP & BOTTOM)
F110-110	11'-0" x 11'-0" x 1'-9"	(9) #7 BARS x 10'-6" EACH WAY (TOP & BOTTOM)
F120-120	12'-0" x 12'-0" x 1'-11"	(11) #7 BARS x 11'-6" EACH WAY (TOP & BOTTOM)

WALL FOOTING SCHEDULE (2000 PSF)		
MARK	SIZE	REINFORCING
WF-20	2'-0" WIDE x 1'-0" DEEP	(3) #4 BARS CONTINUOUS #4 BARS x 1'-6" AT 32" O/C TRANSVERSE
WF-36	3'-6" WIDE x 1'-0" DEEP	(3) #4 BARS CONTINUOUS #5 BARS x 3'-0" AT 16" O/C TRANSVERSE
WF-40	4'-0" WIDE x 1'-2" DEEP	(4) #5 BARS CONTINUOUS #5 BARS x 3'-6" AT 16" O/C TRANSVERSE
WF-60	6'-0" WIDE x 1'-6" DEEP	(6) #5 BARS CONTINUOUS #6 BARS x 5'-6" AT 12" O/C TRANSVERSE

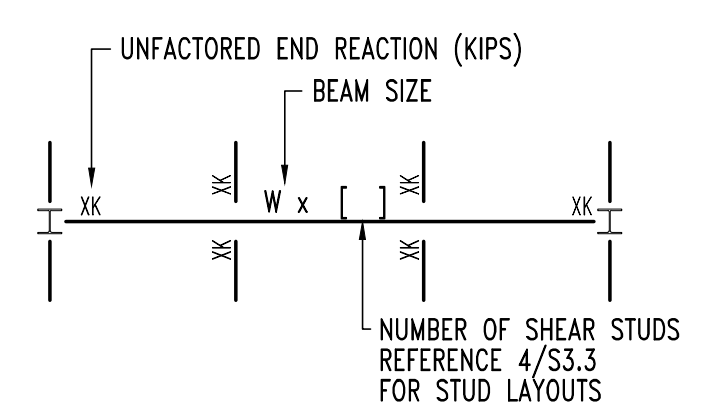


ISSUE SCHEDULE	DATE	REFERENCE
1	4/10/2024	CONSTRUCTION SET

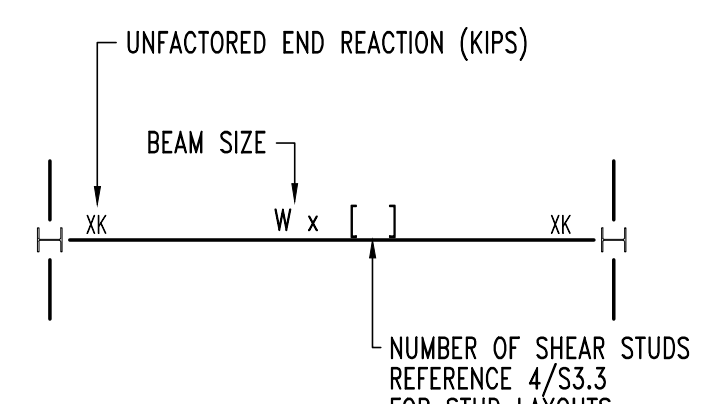


SECOND FLOOR FRAMING PLAN

- SCALE: 1/8" = 1'-0"
- TOP OF SLAB ELEVATION = +20'-0" REFERENCED FROM THE SLAB ON GRADE FINISHED FLOOR REFERENCE ELEVATION 0'-0".
 - ALL ELEVATIONS NOTED (+) ARE REFERENCED FROM FINISHED FLOOR REFERENCE ELEVATION 0'-0".
 - TOP OF STEEL ELEVATION (T.O.S.) = (+19'-6") U.N.O.
 - WIDE FLANGE SHAPES ARE TO CONFORM TO ASTM A992 (F_y = 50 KSI).
 - CHANNELS, PLATES AND ANGLES ARE TO CONFORM TO ASTM A36 (F_y = 36 KSI).
 - ALL FIELD WELDS ARE TO BE E70-XX LOW HYDROGEN.
 - UNLESS NOTED OTHERWISE ALL STRUCTURAL BOLTS TO BE 3/4" A325-N INSTALLED "SNUG TIGHT".
 - UNFACTORED BEAM END REACTIONS ARE NOTED THIS WAY. WHERE END REACTIONS ARE NOT SHOWN, DESIGN SHEAR CONNECTIONS FOR 10 KIPS (ASD).
 - [] INDICATES THE NUMBER OF 3/4" x 4 3/16" STUD SHEAR CONNECTORS. WHERE STUD COUNT IS NOT NOTED INSTALL STUDS AT 12" o/c.
 - THE DECK SUPPLIER IS TO FURNISH ALL OF THE DECK ACCESSORIES REQUIRED FOR THIS TYPE OF FLOOR SYSTEM INCLUDING CELL CLOSURES, GIRDER FILLERS AND COLUMN CLOSURES. SUBMIT THE ERECTION DRAWINGS FOR APPROVAL.
 - THE STEEL STAIRS AND RAILS ARE TO BE DESIGNED BY THE SUPPLIER IN ACCORDANCE WITH THE NORTH CAROLINA STATE BUILDING CODE.
 - CONTRACTOR NOTE: MINOR SLAB CRACKING OVER THE TOPS OF THE FLOOR BEAMS IS EXPECTED WITH THIS TYPE OF FLOOR SYSTEM. ALLOW FOR AN EXTRA 1/2" OF CONCRETE OVER THE FLOOR SYSTEM WHEN CALCULATING THE CONCRETE VOLUME TO ALLOW FOR DEFLECTIONS.
 - ALL FLOOR BEAMS ARE TO BE FRAMED USING DOUBLE ANGLE SHEAR CONNECTIONS U.N.O. SINGLE ANGLE CONNECTIONS ARE NOT ALLOWED. SHEAR TABS ARE ALLOWED AT HSS COLUMN CONNECTIONS ONLY.
 - DO NOT PAINT STEEL FRAMING THAT IS TO BE FIRE PROOFED. VERIFY WITH ARCHITECT WHERE SPRAY APPLIED FIRE PROOFING IS REQUIRED.
 - UNLESS NOTED OTHERWISE SLAB IS TO BE PLACED AND FINISHED 'LEVEL', NOT 'GAUGED'. AT FLOOR DRAINS SLOPE SLAB 3/4" TO DRAIN. MINIMUM SLAB + DECK THICKNESS = 5 1/4".



COMPOSITE FLOOR GIRDER NOTATION



COMPOSITE FLOOR BEAM NOTATION

BEARING PLATE SCHEDULE

BP1 = PL 3/8x6x1'-8"	8	4
(2) 1/2x4 1/8 HCA's	6	2
BP2 = PL 1/2x6x1'-0"	12	4
(2) 1/2x4 1/8 HCA's	6	2
BP3 = PL 3/4x6x1'-2"	14	4
(2) 1/2x4 1/8 HCA's	6	2

- A** = #4 BARS x 8'-0" AT 12" o/c OVER FLOOR GIRDERS
 - B** = TOPPING SLAB OVER INSULATION AND WATERPROOFING MEMBRANE AT BALCONY
 - C** = ELECTRICAL CHASE SIZE TO BE VERIFIED
 - D** = PROVIDE 1/2" FITTED STIFFENERS AT BEAM MC FLANGES
- F.D. = FLOOR DRAIN - COORDINATE WITH PLUMBING DRAWINGS. SLOPE SLAB 3/4" TO DRAINS. MINIMUM SLAB DEPTH = 5 1/4" AT FLOOR DRAINS. REFERENCE 10/S3.3 FOR FRAME DETAIL
- W10 = W10x12
BFB = HSS2x2x3/16 BOTTOM FLANGE BRACE AT MIDSPAN
* = BOTTOM FLANGE BEING BRACED
MC = FIELD WELDED MOMENT CONNECTION

ATTACHMENT PROCEDURE FOR COMPOSITE FLOOR DECK

- ENDS SHALL BE BUTTED OVER SUPPORTS UNLESS OTHERWISE SPECIFIED.
- AT ALL SUPPORTING MEMBERS WELDS SHOULD BE PLACED AT SIDE LAPS PLUS EACH INTERIOR RIB TO LIMIT SPACING BETWEEN ATTACHMENTS TO 12".
- PROVIDE SIDELAP FASTENERS AT 12" o/c.
- SIDELAP FASTENERS SHALL BE #10 TEX SCREWS.
- FIELD WELD SHALL BE AT LEAST 5/8" DIAMETER OR AN EQUIVALENT ELONGATED WELD. FILET WELDS WHEN USED, SHALL BE AT LEAST 1" LONG. WELDS SHALL HAVE GOOD FUSION TO THE SUPPORTING MEMBERS THROUGH ALL DECK MATERIAL.
- WELDS MAY BE OMITTED AT FLUTES WITH STUDS.

REQUIRED FLOOR DECK PROPERTIES

DECK TYPE:	2" COMPOSITE FLOOR DECK
FINISH:	G60 GALVANIZED - NOTE: G90 GALVANIZED AT BALCONY
GAGE:	20
COVERAGE:	36"
DESIGN THICKNESS:	0.0358 IN.
YIELD STRENGTH:	40 KSI MINIMUM
MOMENT OF INERTIA:	I _y = 0.417 IN ⁴ /FT
SECTION MODULUS:	S _y = 0.342 IN ³ /FT
	S _x = 0.347 IN ³ /FT

DECK SPAN IS NOT TO EXCEED 7'-0".
MINIMUM 2-SPAN CONDITIONS

FLOOR DESIGN LOADS

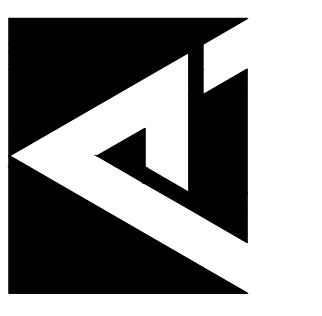
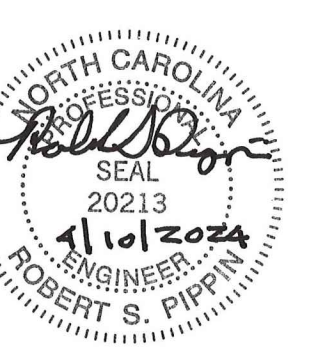
- 125 PSF = LIVE LOAD (MECH./ELEC. ROOM)
- 100 PSF = LIVE LOAD (ASSEMBLY OCCUPANCY)
- 58 PSF = SLAB + DECK DEAD LOAD
- 7 PSF = COLLATERAL LOAD + STEEL SELF-WEIGHT

BALCONY DESIGN LOADS

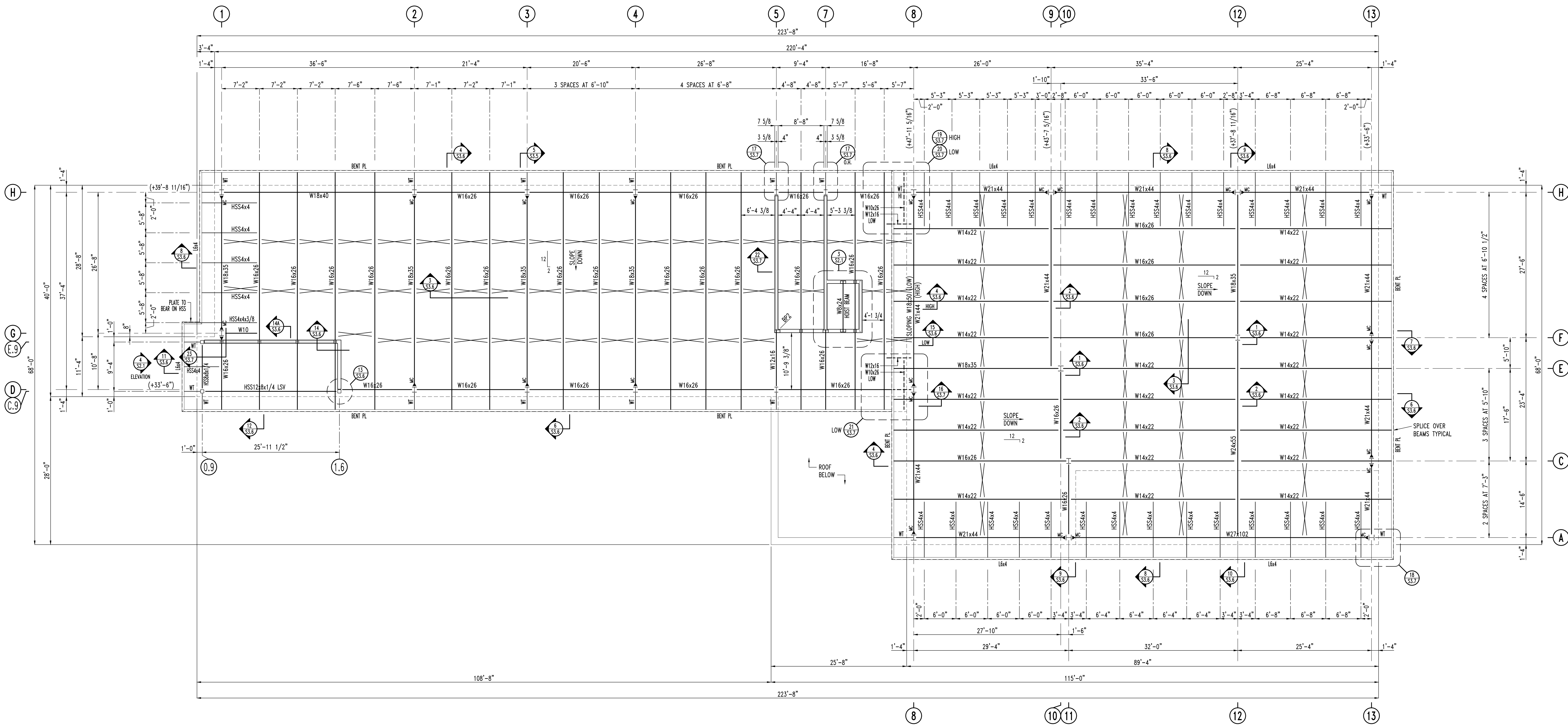
- 100 PSF = LIVE LOAD
- 38 PSF = 4" TOPPING SLAB
- 2 PSF = INSULATION
- 58 PSF = STRUCTURAL SLAB + DECK DEAD LOAD
- 7 PSF = COLLATERAL LOAD + STEEL SELF-WEIGHT

LOW ROOF DESIGN LOADS

- 20 PSF = ROOF LIVE LOAD (+ DRIFTS WHERE APPLICABLE)
- 60 PSF = MECHANICAL UNITS
- 5 PSF = ROOF MEMBRANE, INSULATION AND STEEL DECK
- 5 PSF = COLLATERAL LOAD + STEEL SELF-WEIGHT



ISSUE SCHEDULE	DATE	REFERENCE
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ROOF FRAMING PLAN
 SCALE: 1/8" = 1'-0"
 (1) TOP OF STEEL/BOTTOM OF DECK ELEVATIONS ARE NOTED THUS (+) ABOVE
 FINISHED FLOOR REFERENCE ELEVATION 0'-0"

MC = FIELD WELDED MOMENT CONNECTION
 HSS4x4 = HSS4x4x1/4 U.L.O.

BEARING PLATE SCHEDULE

BP1 = PL 3/8x6x0'-8" 8 4
 (2) 1/2x4 1/8 HCA's 6 2 2
 BP2 = PL 1/2x6x1'-0" 12 4
 (2) 1/2x4 1/8 HCA's 6 3 3

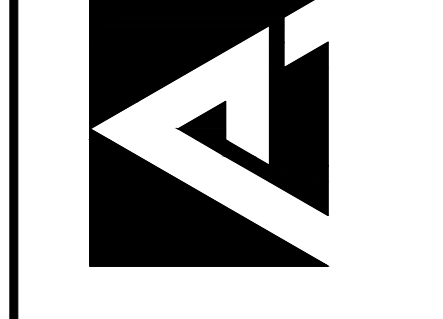
ROOF DESIGN LOADS

20 PSF = ROOF LIVE LOAD
 (+ DRIFTS WHERE APPLICABLE)
 6 PSF = STANDING SEAM ROOF, INSULATION AND STEEL DECK
 8 PSF = COLLATERAL LOAD + STEEL SELF-WEIGHT

ROOF DECK NOTES

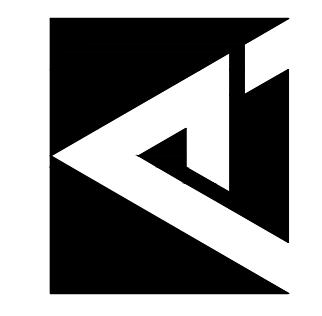
- PROVIDE SIDELAP FASTENERS AT 12" O/C MAXIMUM. SIDE LAPS SHALL BE #10 DRILL SCREWS EQUALLY SPACED.
- DECK ATTACHMENT TO THE SUPPORTING MEMBERS IS TO BE MADE USING 5/8" DIAMETER PUDDLE WELDS AT 6" O/C. FASTEN DECK ALONG EDGES AT PERIMETER AT 12" O/C. IF ALTERNATE FASTENERS ARE PREFERRED (PINS OR SCREWS) SUBMIT PROPOSED FASTENERS FOR APPROVAL.
- DECK END LAP SPICES SHALL BE 4" MINIMUM.

36/7 PATTERN +
 SIDELAP FASTENERS AT 12" O/C MAXIMUM
 DECK SHALL BE CORRUGATED STEEL DECK WITH THE FOLLOWING MINIMUM MANUFACTURERS, TYPE, FINISH, GAGE, AND PHYSICAL PROPERTIES (PER FOOT WIDTH) UNLESS OTHERWISE NOTED:
 FINISH — PAINTED (GRAY/GRAY)
 COVERAGE — 36 IN (3 SPAN MINIMUM)
 MOMENT OF INERTIA — 0.213 IN⁴/FT
 SECTION MODULUS — S_x = 0.235 IN³/FT
 S_y = 0.247 IN³/FT
 MINIMUM DEPTH — 1 1/2"
 YIELD STRENGTH — 33 KSI
 DESIGN THICKNESS — 20 GA. (0.0358 IN.)

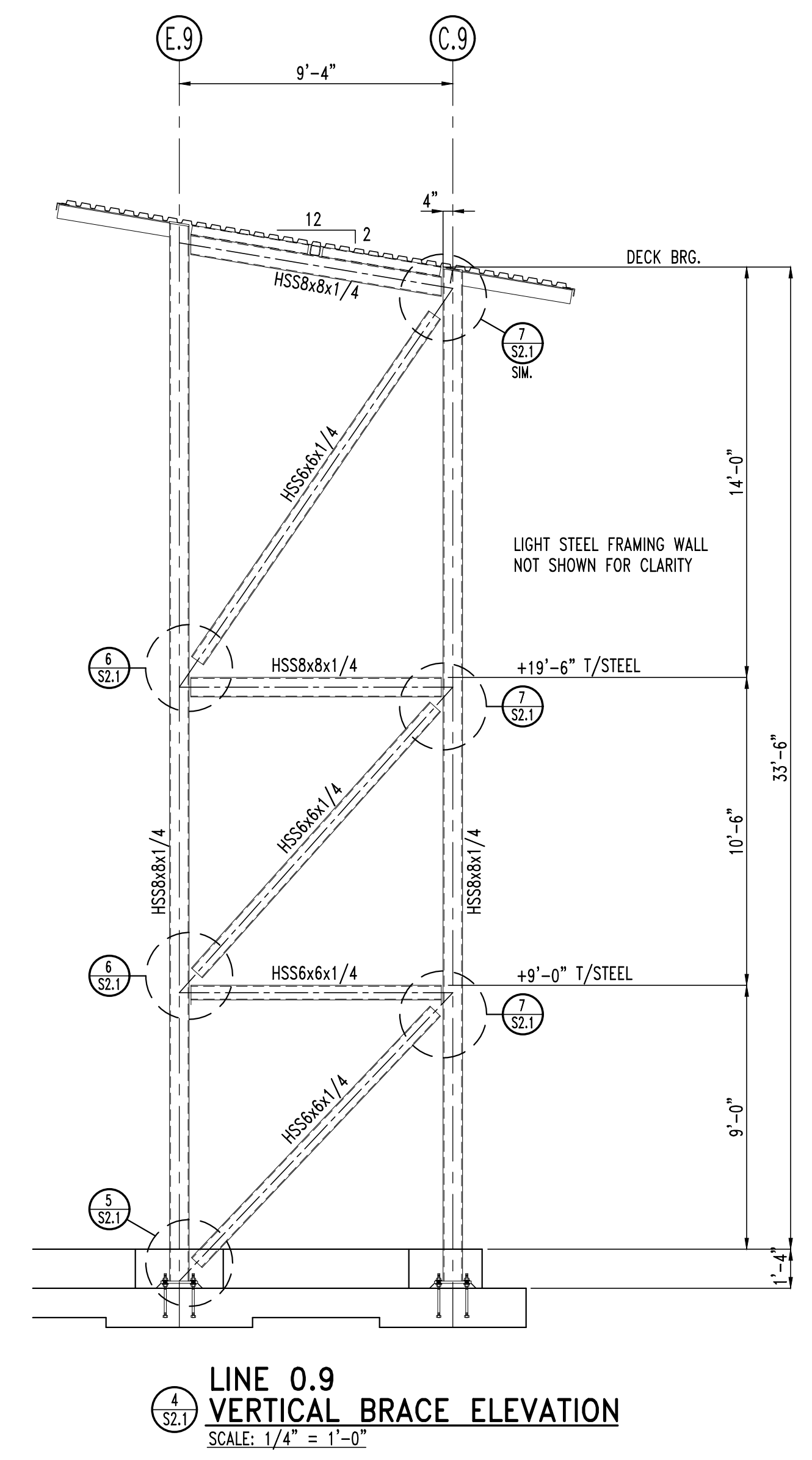
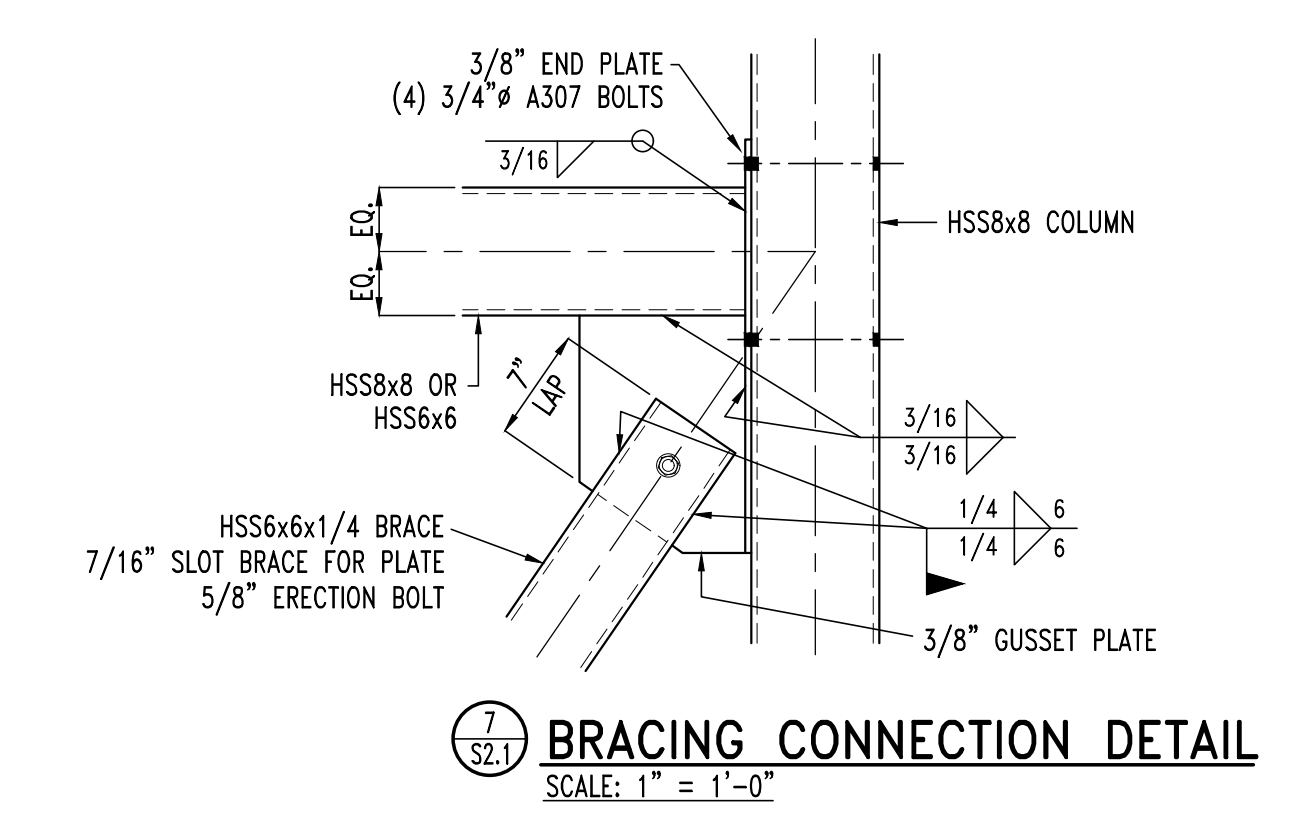
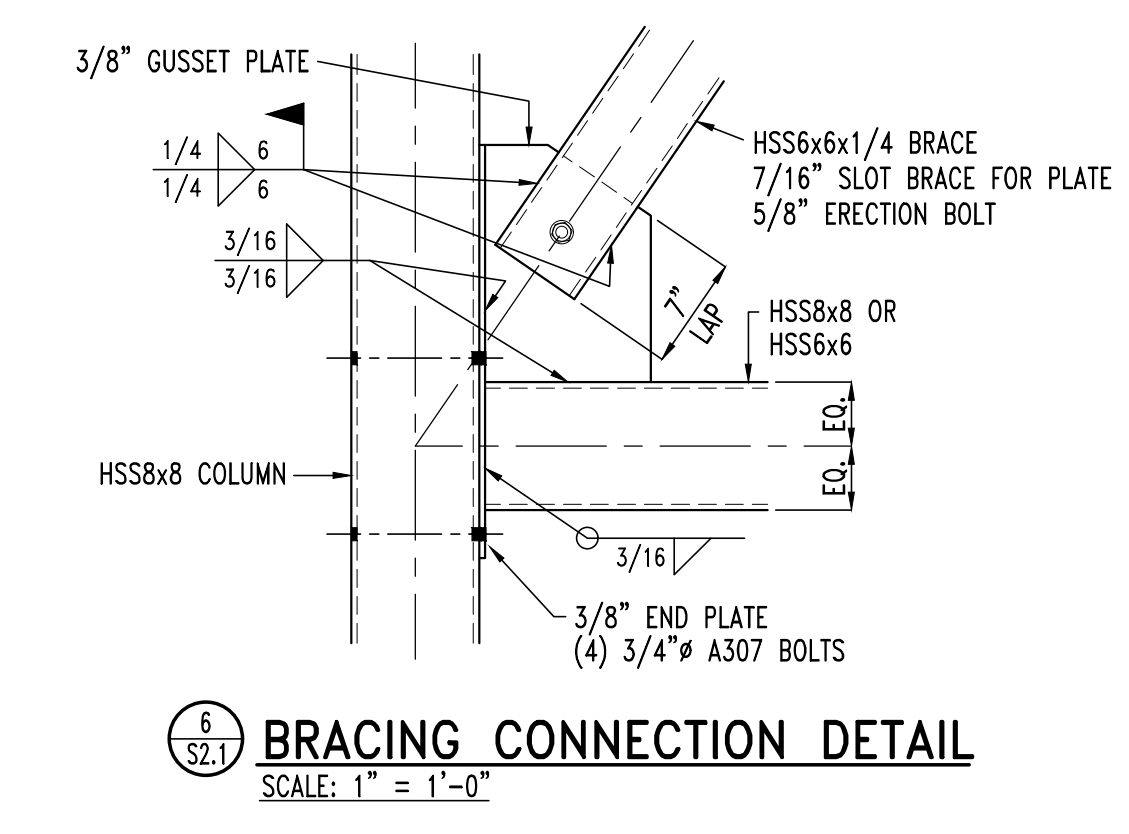
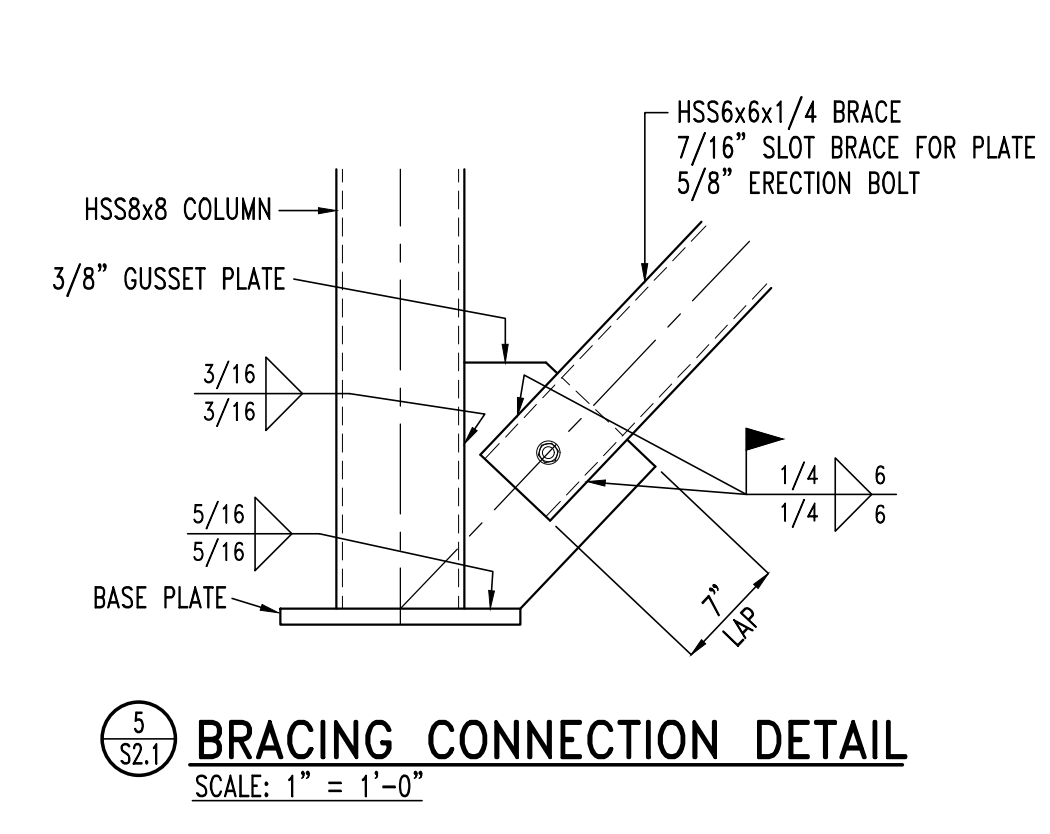
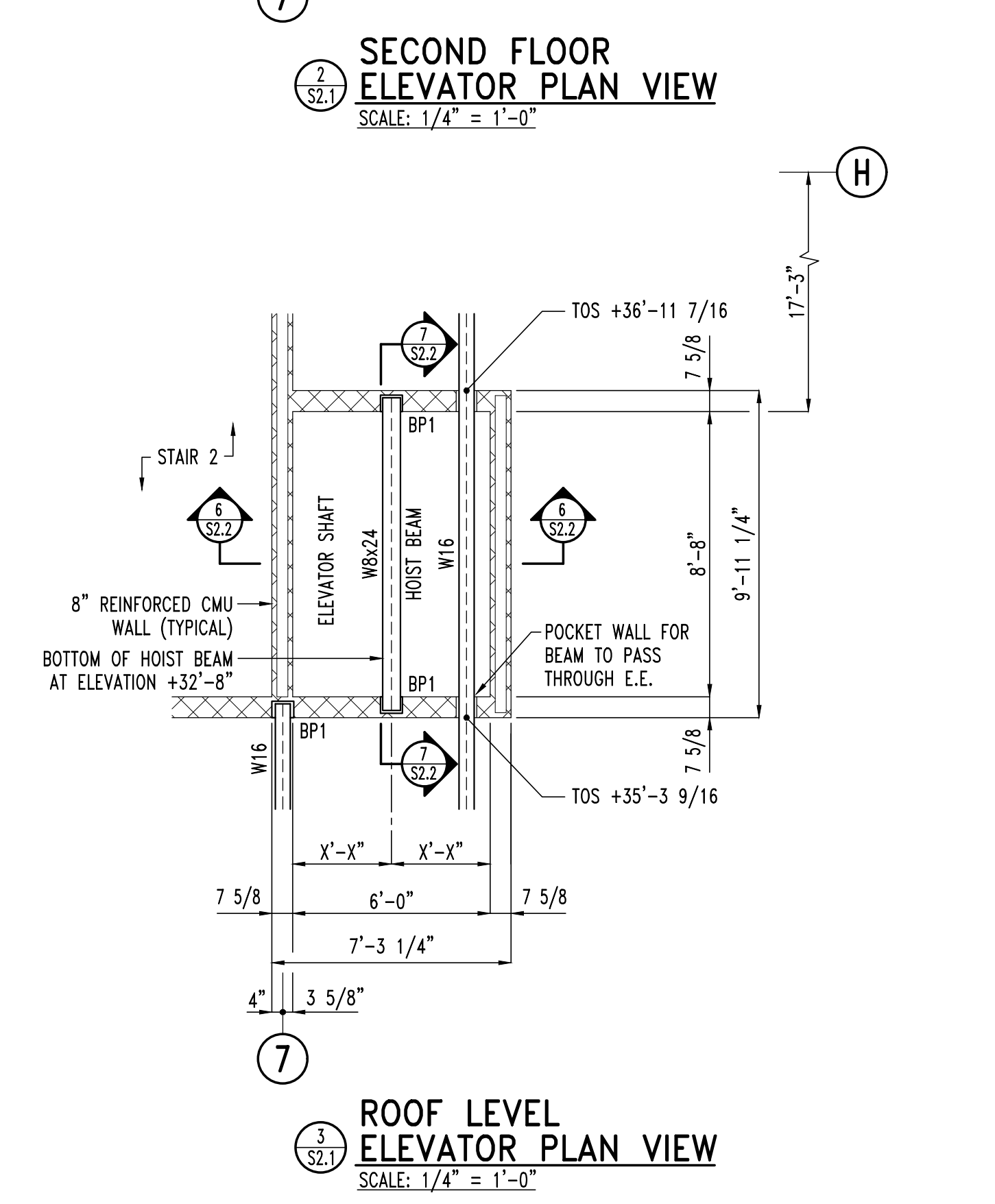
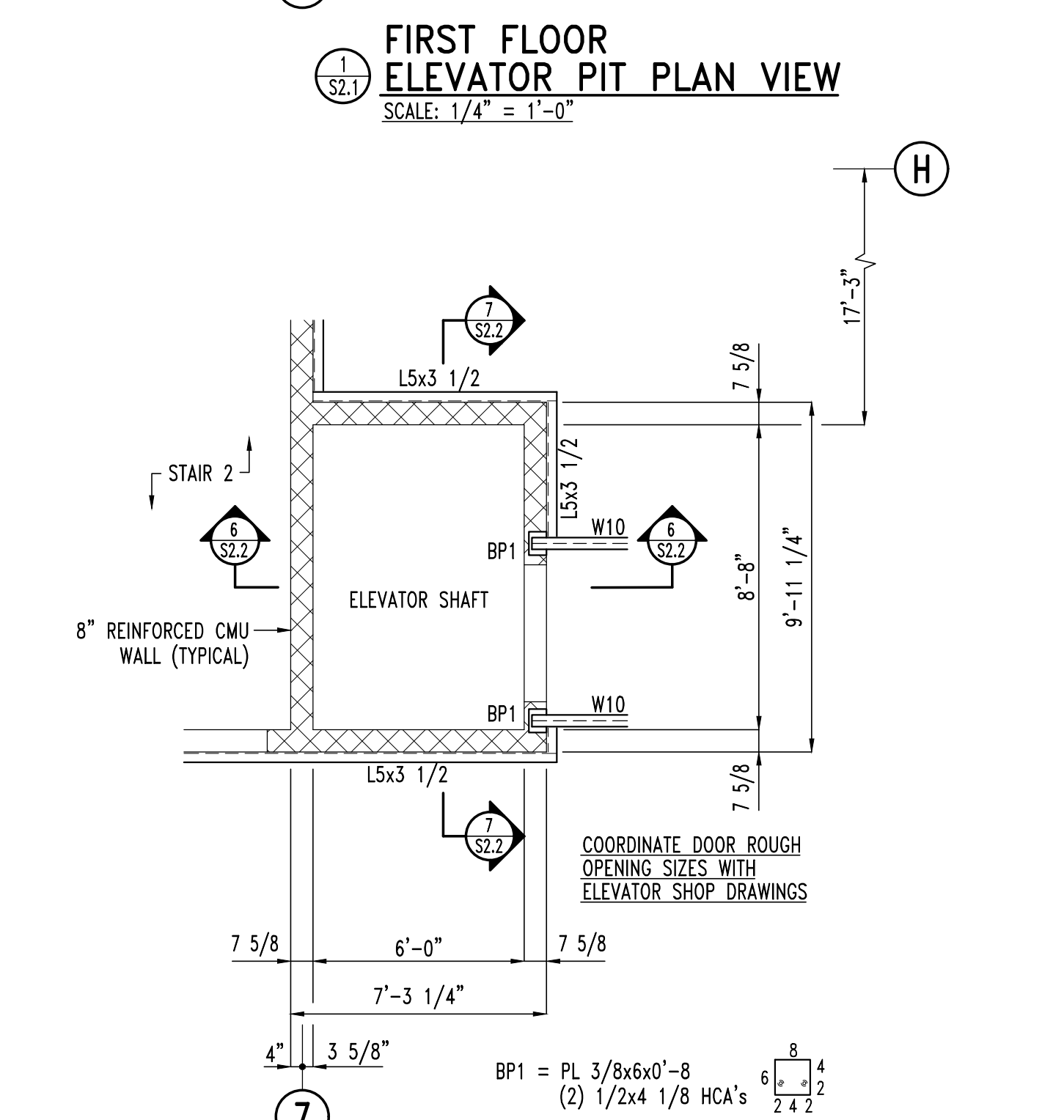
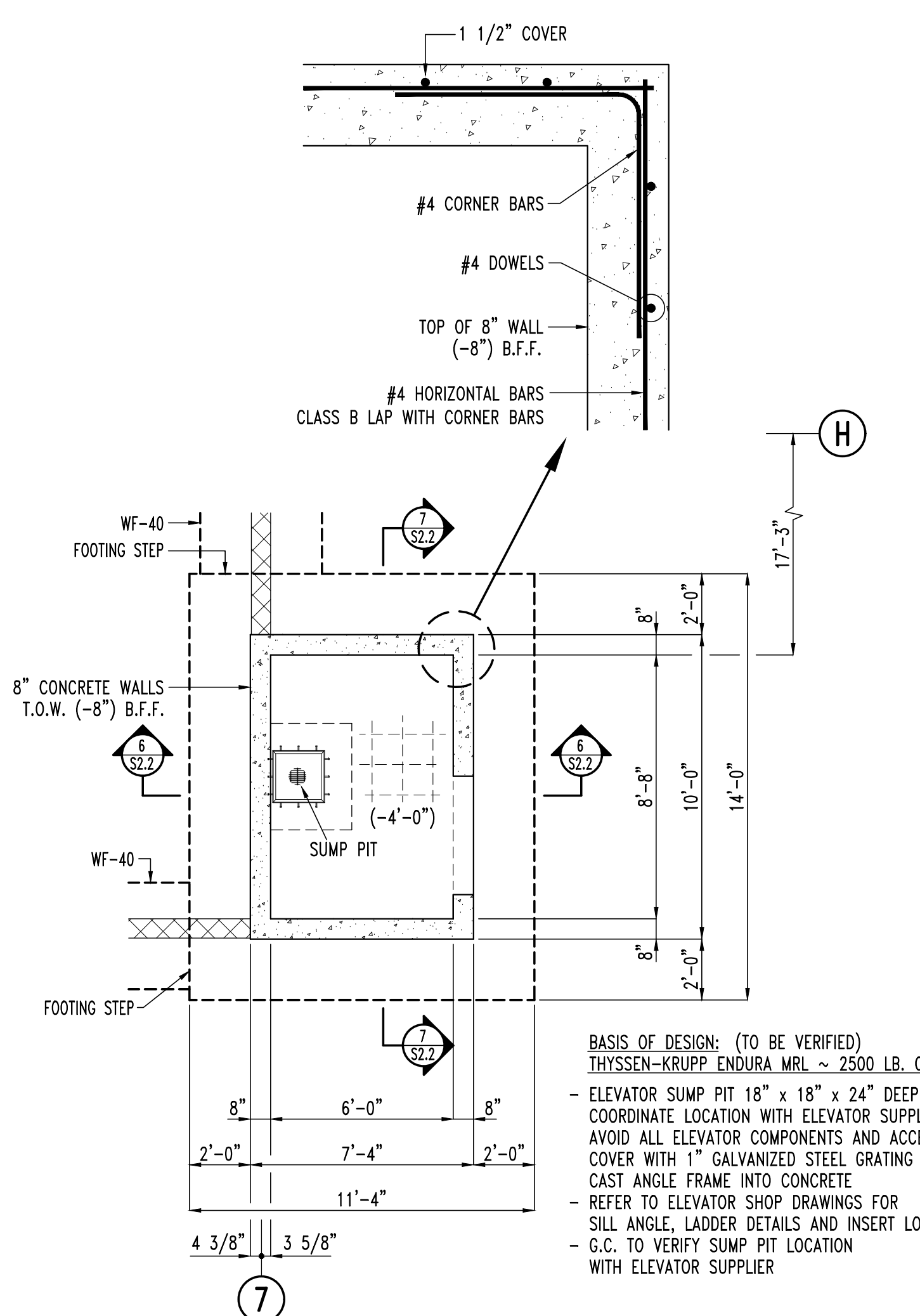


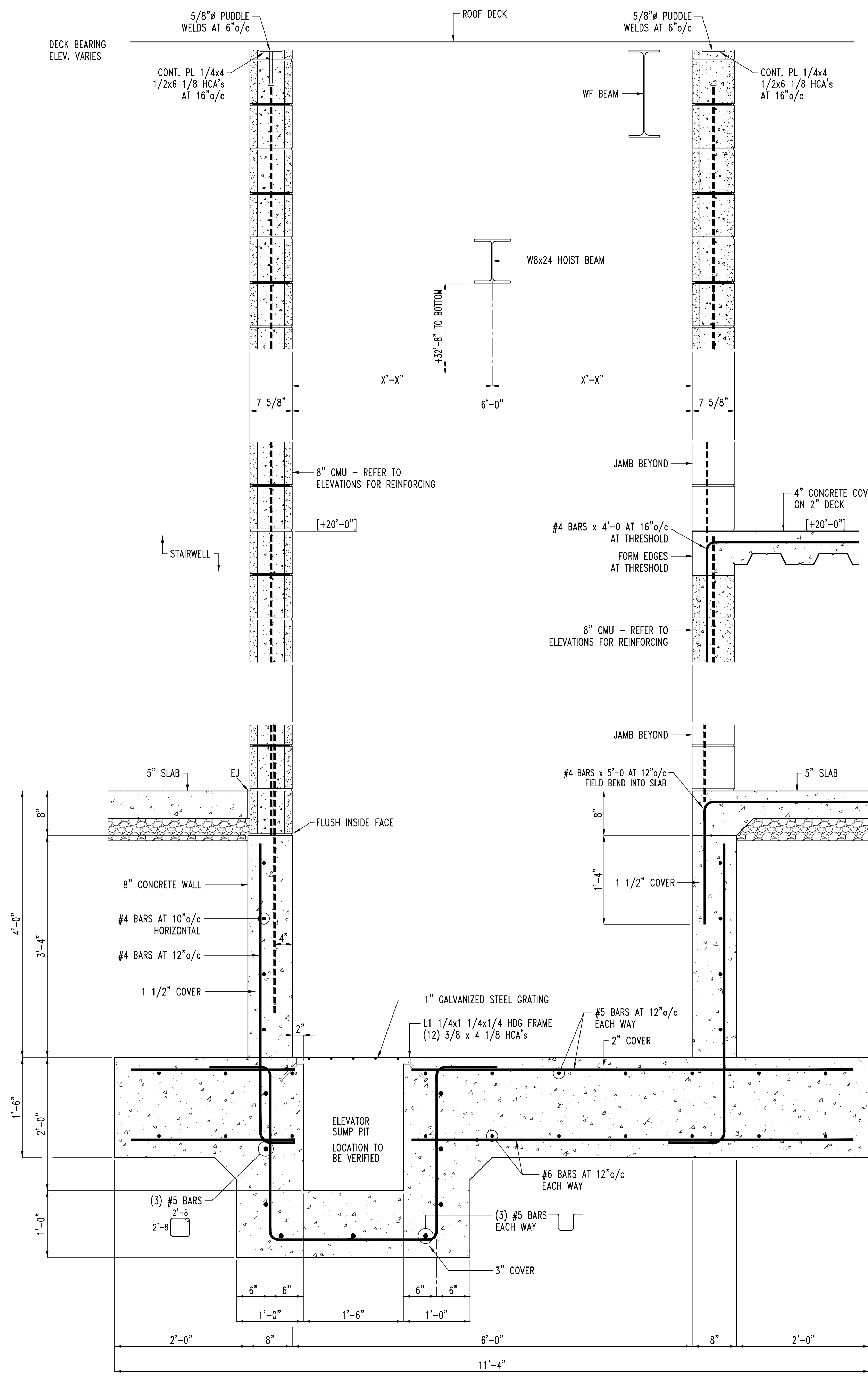
ISSUE SCHEDULE

NO.	DATE	REFERENCE
1	4/10/2024	CONSTRUCTION SET

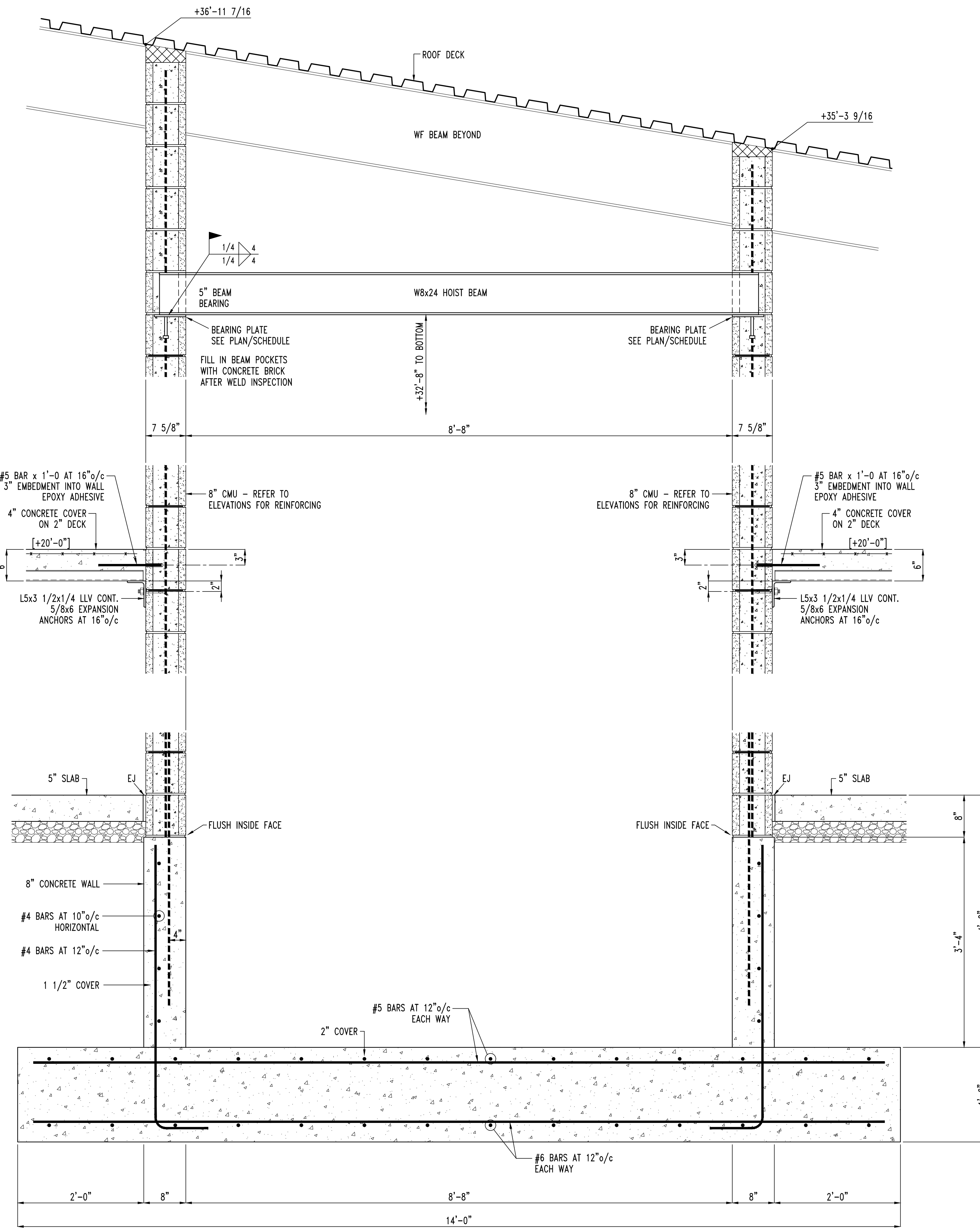


ISSUE SCHEDULE	DATE	REFERENCE
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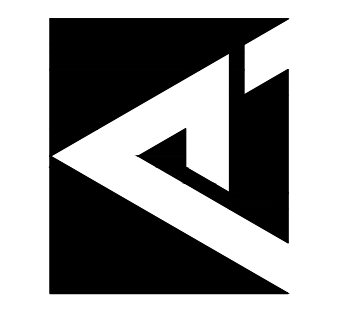




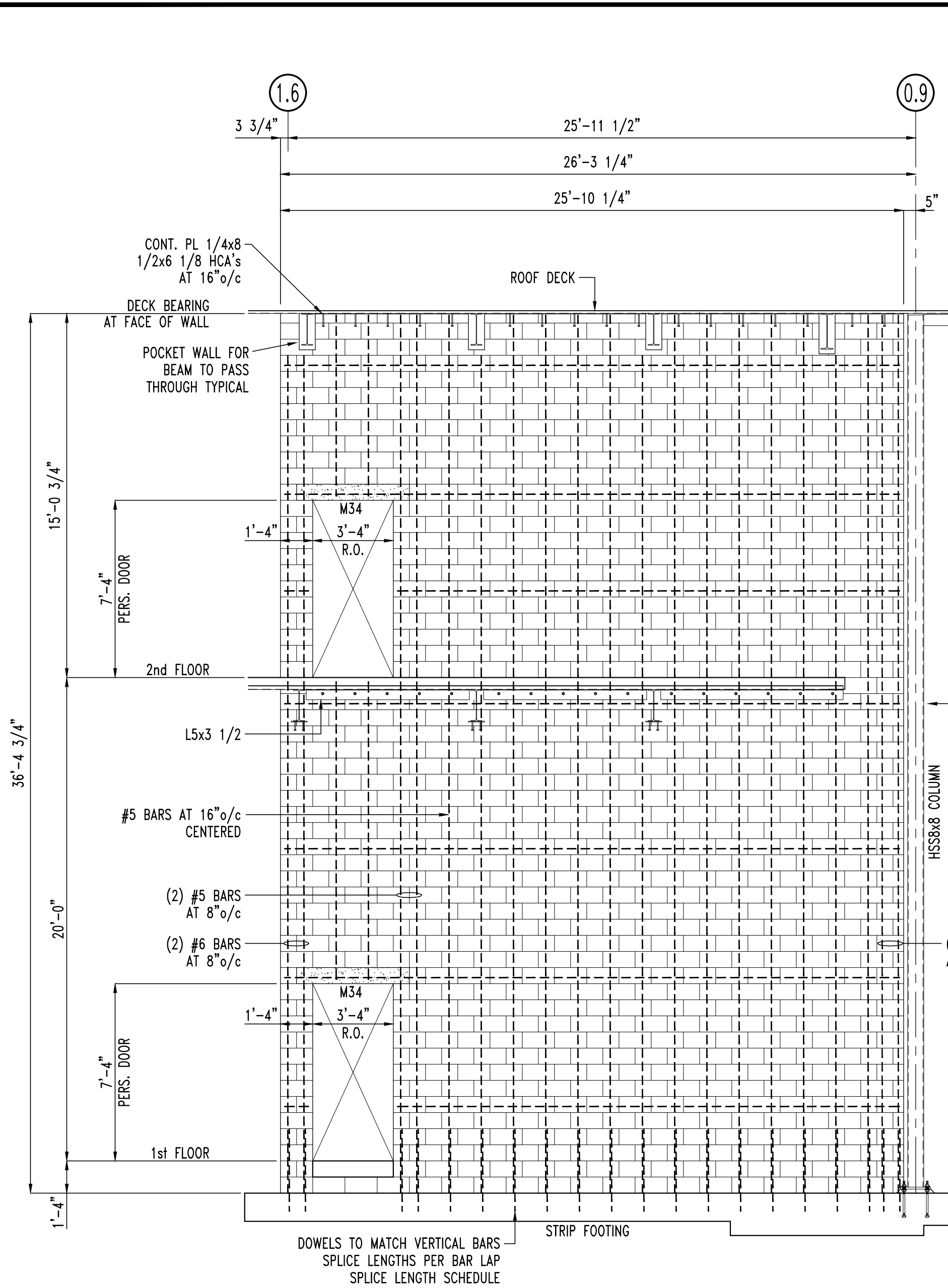
ELEVATOR SHAFT SECTION
SCALE: 1" = 1'-0"



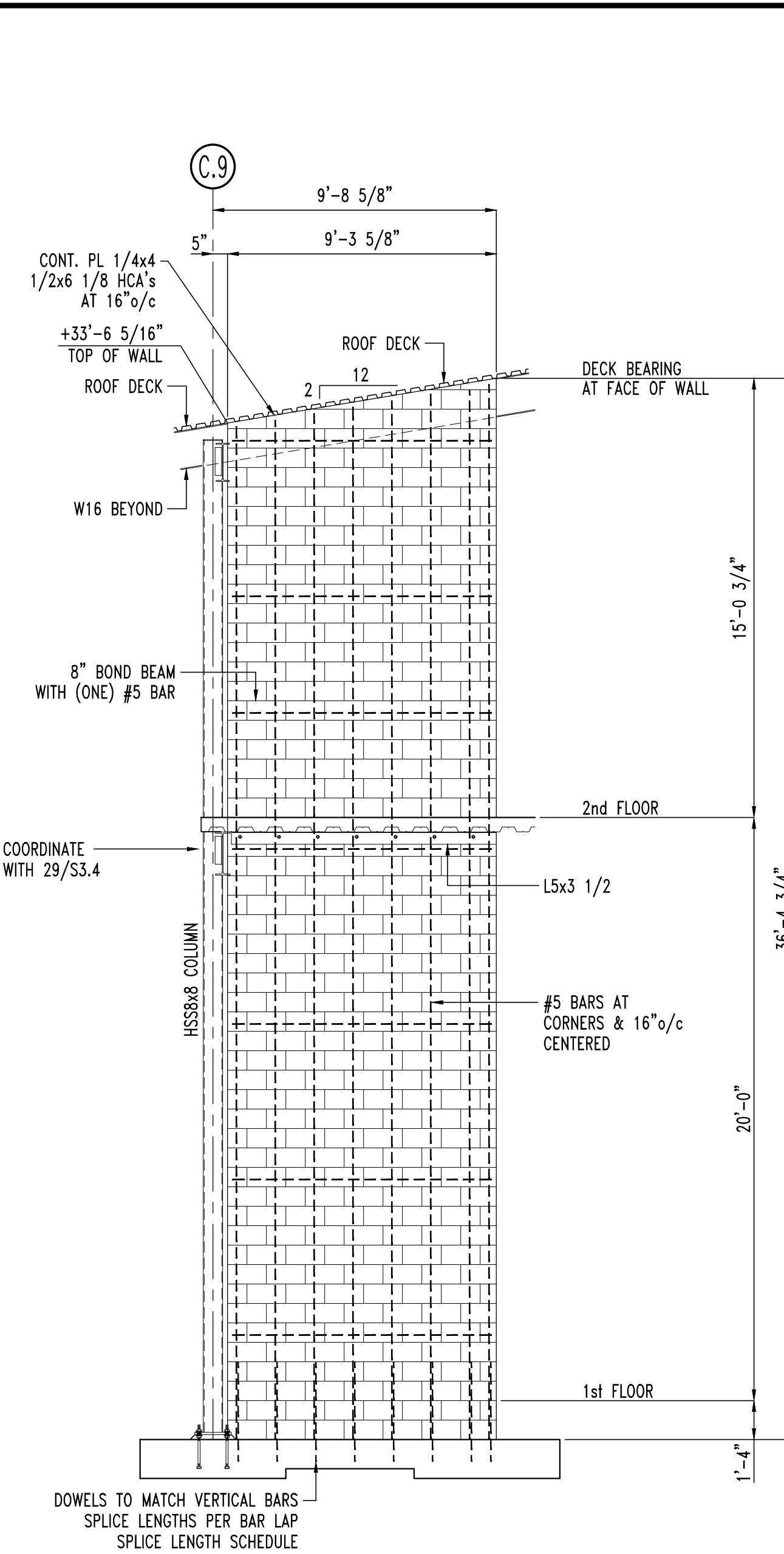
ELEVATOR SHAFT SECTION
SCALE: 1" = 1'-0"



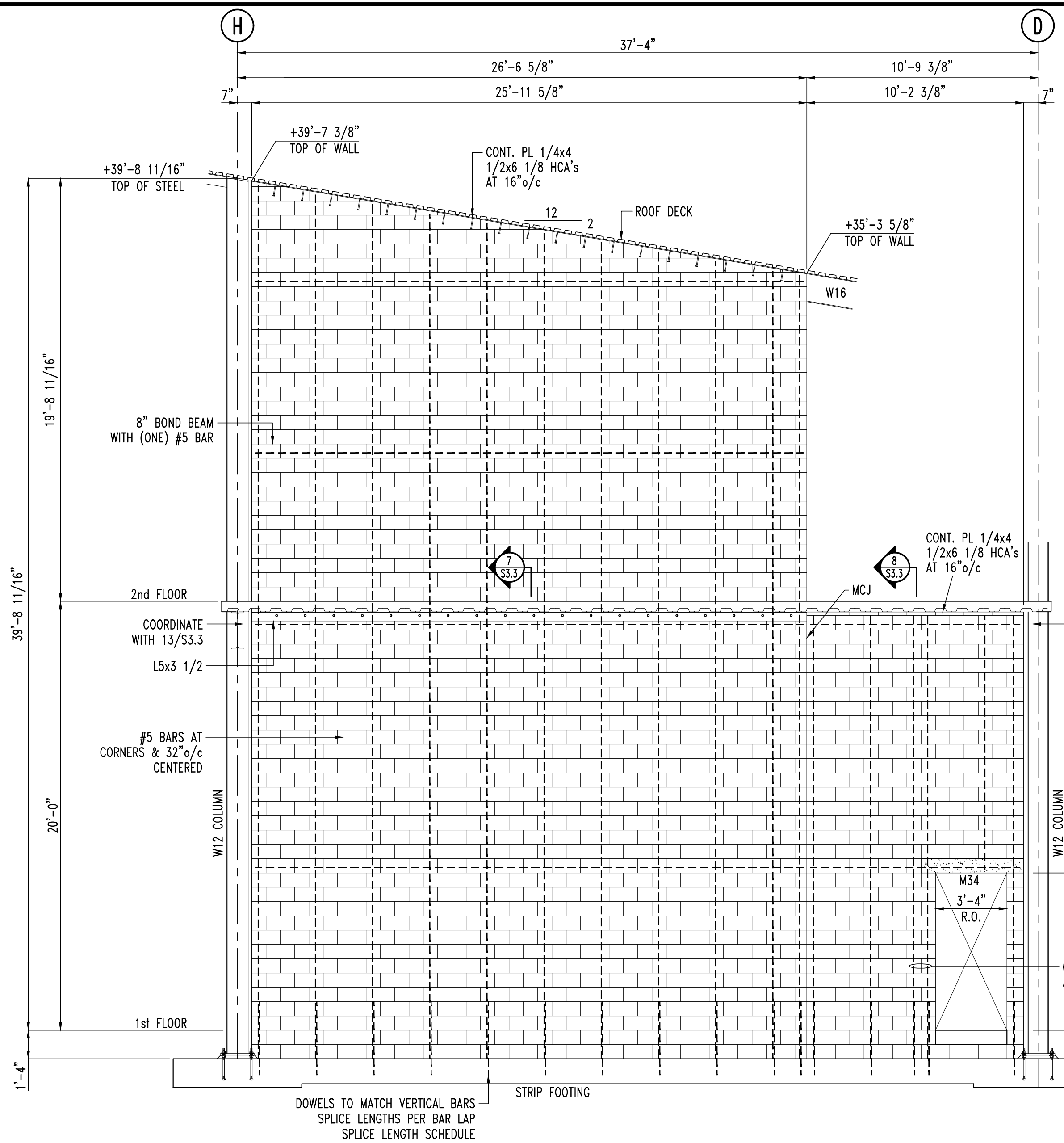
ISSUE SCHEDULE	DATE	REFERENCE
1	4/10/2024	CONSTRUCTION SET



8" CMU WALL
STAIR #1 WALL ELEVATION
 SCALE: 1/4" = 1'-0"



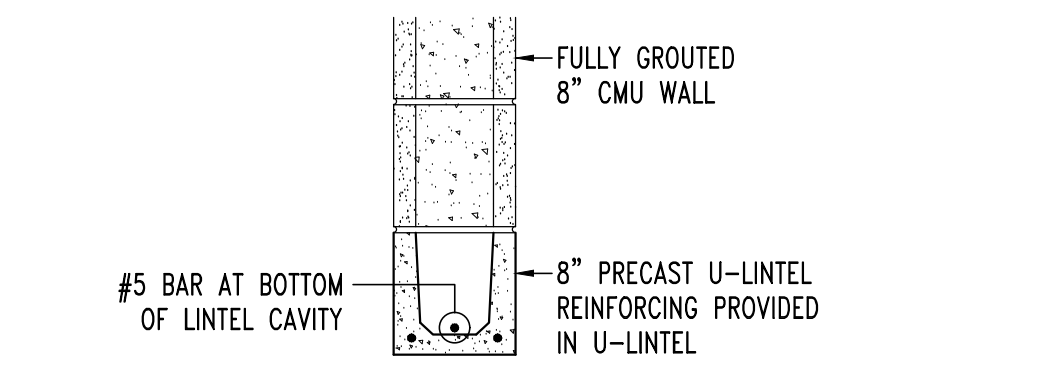
8" CMU WALL
STAIR #1 WALL ELEVATION
 SCALE: 1/4" = 1'-0"



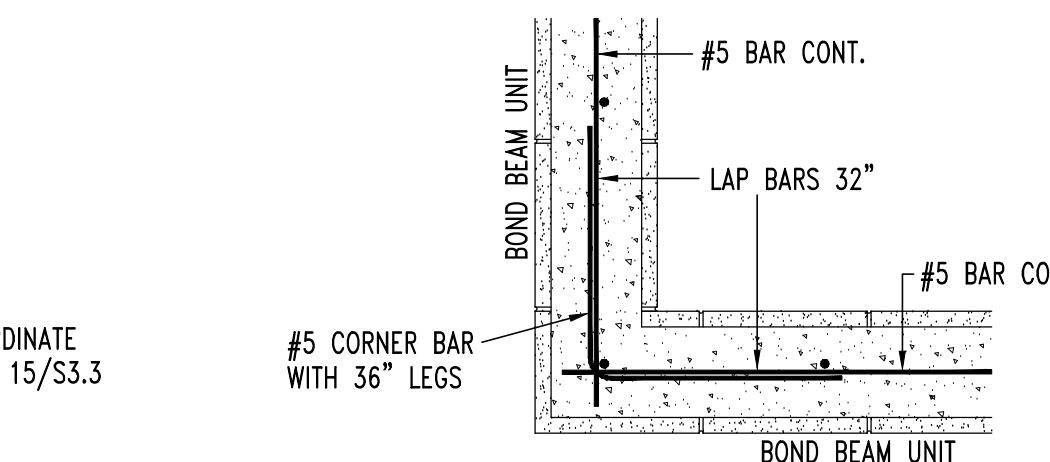
8" CMU WALL
STAIR #2 WALL ELEVATION
 SCALE: 1/4" = 1'-0"

MASONRY LINTEL SCHEDULE			
MARK	OPENING WIDTH	LINTEL DESIGNATION	REMARKS
M34	UP TO 3'-4"	8F16-1B/OT	8" BEARING EACH END
M40	UP TO 4'-0"	8F16-1B/OT	8" BEARING EACH END

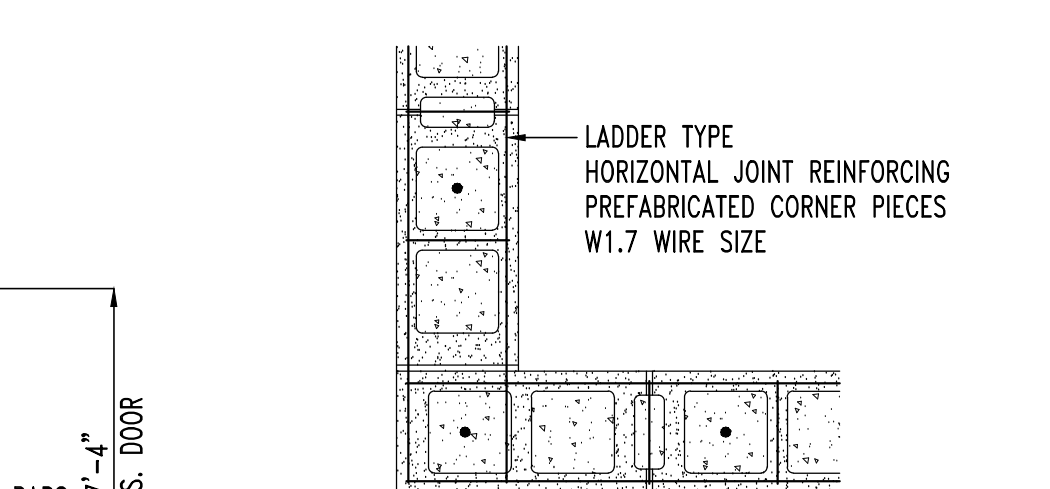
- LINTEL NOTES:
- USE CAST-IN-PLACE 8" PRECAST U-LINTELS.
 - EXTEND LINTEL REINFORCING TO ENDS OF WALL.
 - GROUT TO BE COARSE WITH $f_c = 3000$ PSI.
 - SHORE CMU LINTELS FOR A MINIMUM OF 7 DAYS AFTER GROUTING.



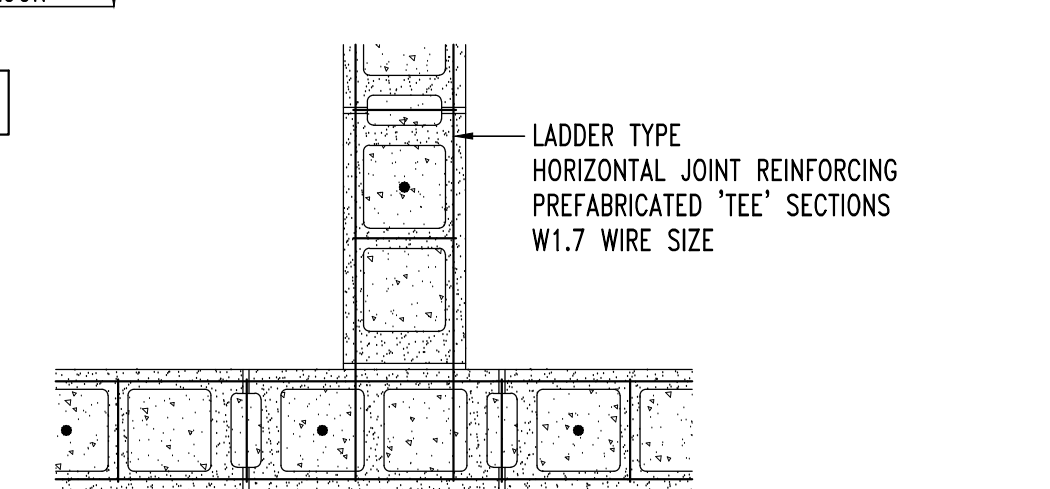
REINFORCED MASONRY LINTEL DETAIL
 SCALE: NONE



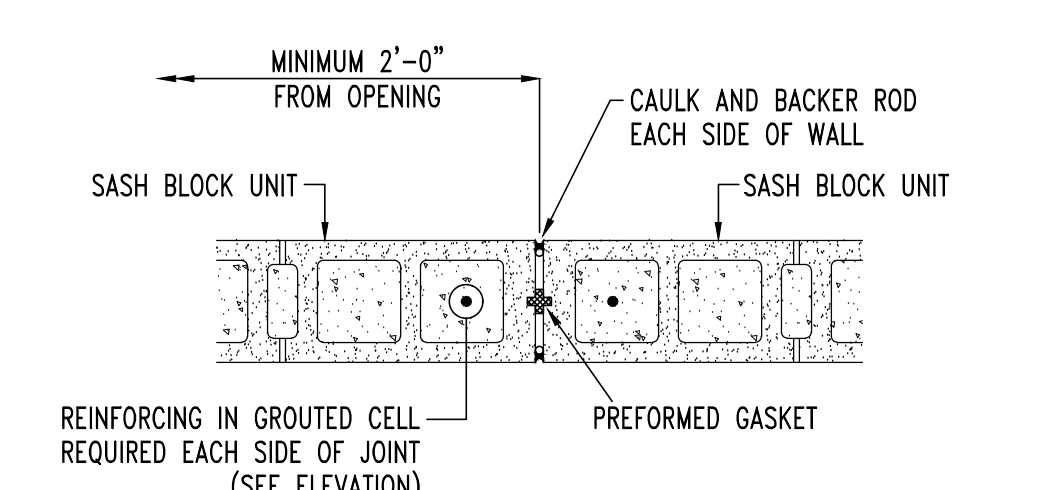
BOND BEAM CORNER DETAIL
 SCALE: NONE



CMU CORNER DETAIL
 SCALE: NONE



CMU INTERSECTION DETAIL
 SCALE: NONE

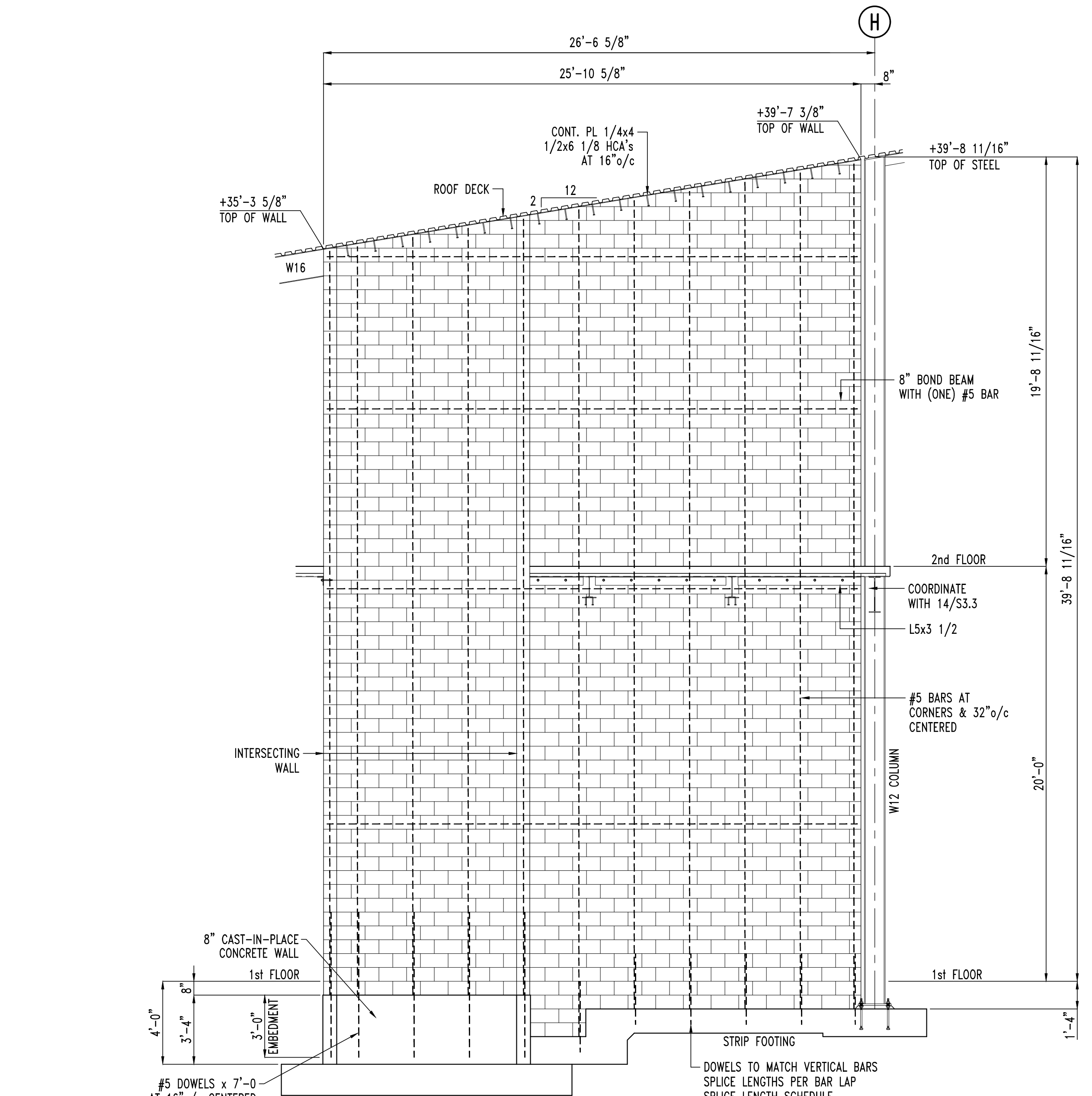


MASONRY CONTROL JOINT DETAIL
 SCALE: NONE

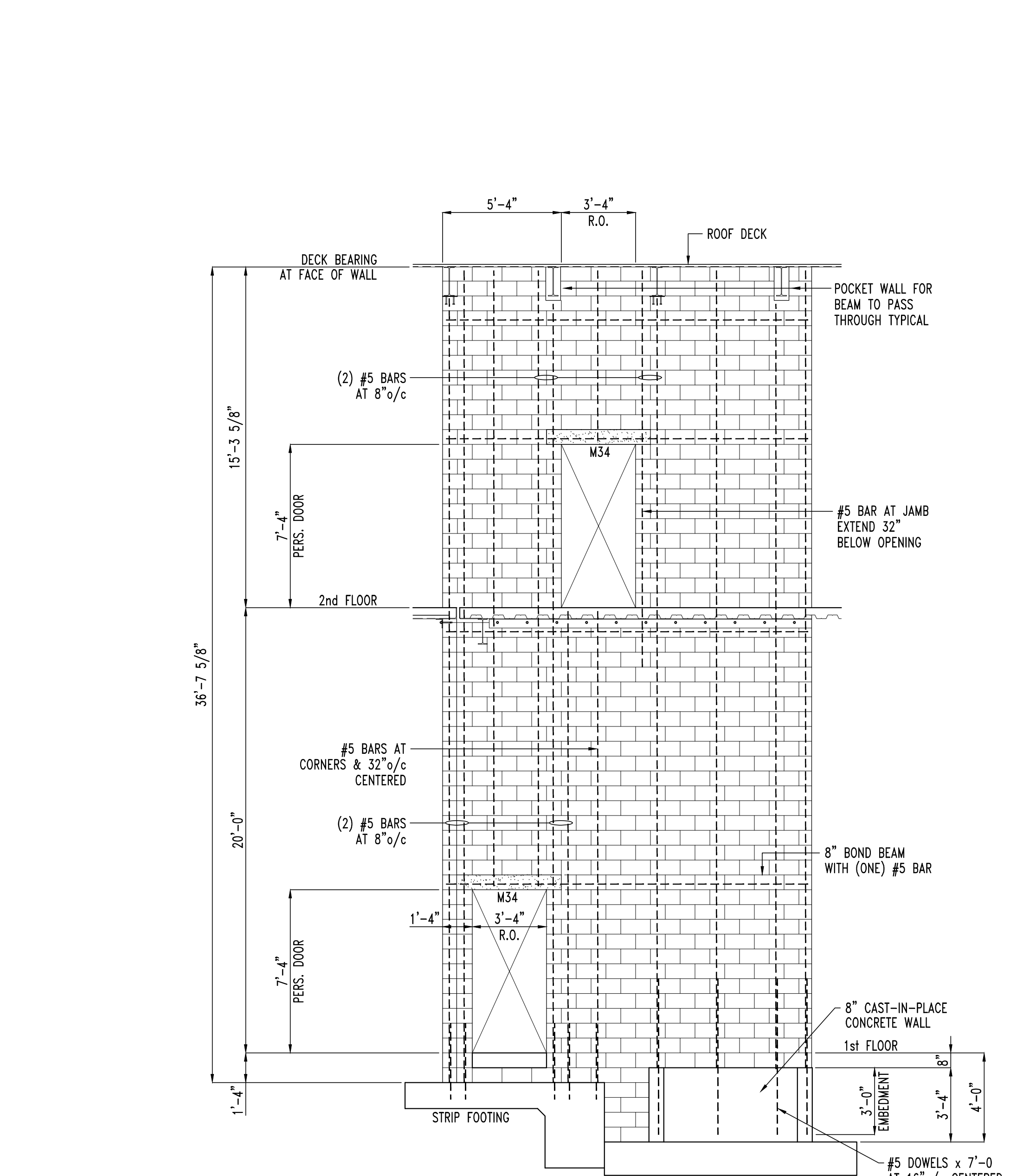
MASONRY REINFORCING BAR LAP SCHEDULE	
SIZE	BAR LAP
#4	24"
#5	32"
#6	48"

MASONRY WALL ELEVATION NOTES

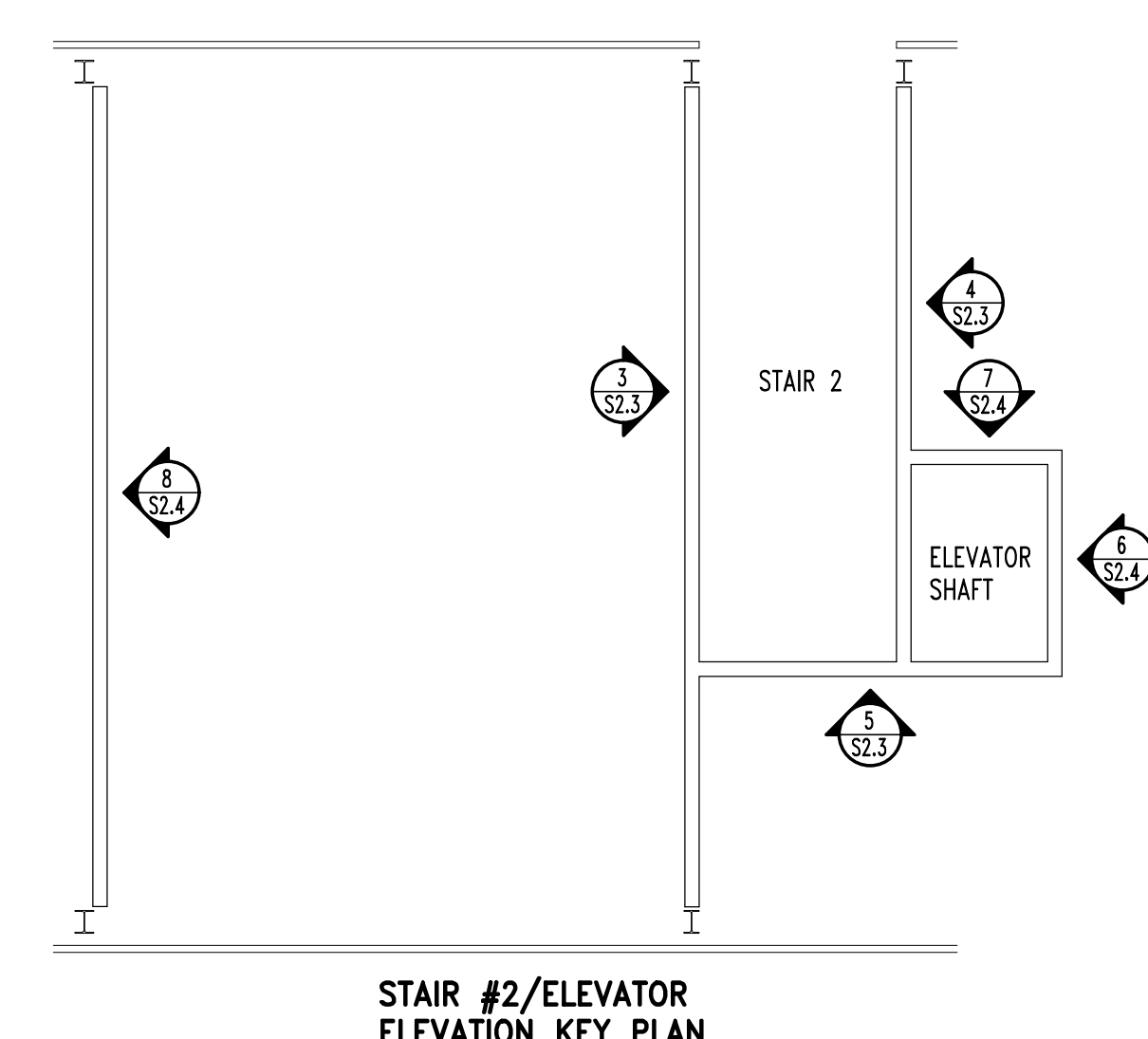
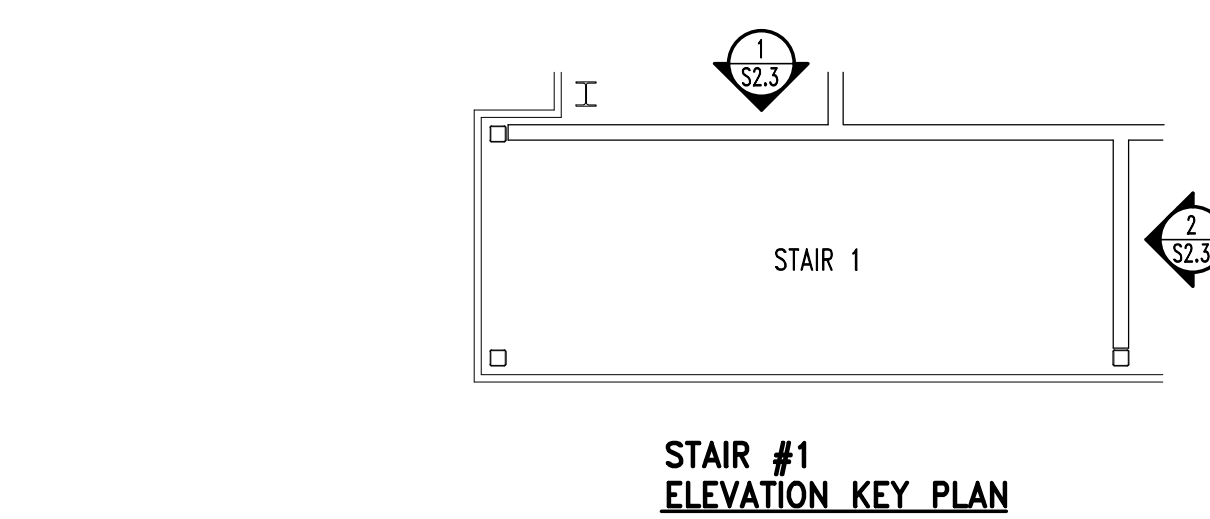
- VERTICAL REINFORCING IS CENTERED IN 8" BLOCK UNLESS NOTED OTHERWISE.
- FOOTING DOWELS TO MATCH VERTICAL REINFORCING. DOWELS TO EXTEND TO BOTTOM MAT WITH STANDARD 90° HOOKS AT BOTTOM. LAP PER BAR SPICE SCHEDULE.
- IF ADDITIONAL WALL PENETRATIONS ARE REQUIRED VERIFY ACCEPTABLE SIZE AND LOCATION WITH ENGINEER PRIOR TO CUTTING/CORING WALL.
- GENERAL CONTRACTOR IS TO MARK REINFORCED CELLS FOR FUTURE REFERENCE.
- GROUT ALL CELLS U.N.O.
- INSTALL HORIZONTAL JOINT REINFORCING AT 16" ON CENTER BETWEEN BOND BEAMS (W1.7 WIRE SIZE).
- CONCRETE MASONRY CONSTRUCTION SHALL COMPLY WITH NCIBC CHAPTER 21 AND ACI 530.1-13.
- CONCRETE MASONRY WALLS SHALL HAVE A MASONRY STRENGTH OF $F_m = 1500$ PSI. PROVIDE CONCRETE MASONRY UNITS THAT CONFORM TO ASTM C 90 WITH A NET AREA COMPRESSIVE STRENGTH OF 1900 PSI.
- MASONRY MORTAR FOR LOAD BEARING MASONRY WALLS SHALL BE TYPE S CONFORMING WITH ASTM C 270.
- MAINTAIN A MINIMUM CLEARANCE OF 3/4" FROM MASONRY FACE SHELLS AND WEBS WHERE REINFORCING STEEL IS PLACED IN MASONRY CORES.
- GROUT SHALL BE PLACED IN 5'-4" MAXIMUM LIFT HEIGHTS AT FILLED CORES UNLESS HIGH LIFT PROCEDURES ARE FOLLOWED DURING GROUTING.
- DO NOT PLACE BACKFILL AGAINST OR SET STEEL FRAMING ON MASONRY WALLS UNTIL MORTAR AND GROUT HAVE ATTAINED A MINIMUM OF 3/4 OF SPECIFIED DESIGN STRENGTH.
- PROVIDE GROUT THAT CONFORMS TO THE REQUIREMENTS OF ASTM C 476 WITH A MINIMUM COMPRESSIVE STRENGTH $f_c = 3000$ PSI.
- REINFORCING SHALL BE HELD SECURELY IN POSITION WITH STANDARD ACCESSORIES DURING GROUT PLACEMENT.
- REFER TO ARCHITECTURAL FOR WALL OPENING LOCATIONS AND ROUGH OPENING SIZES.



8" CMU WALL
STAIR #2/ELEVATOR WALL ELEVATION
 SCALE: 1/4" = 1'-0"



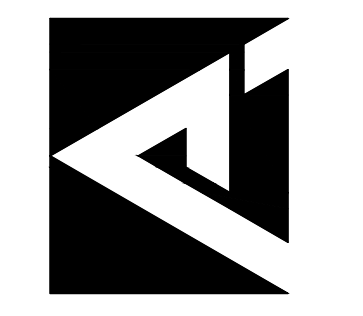
8" CMU WALL
STAIR #2/ELEVATOR WALL ELEVATION
 SCALE: 1/4" = 1'-0"



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 STRUCTURAL ENGINEERING
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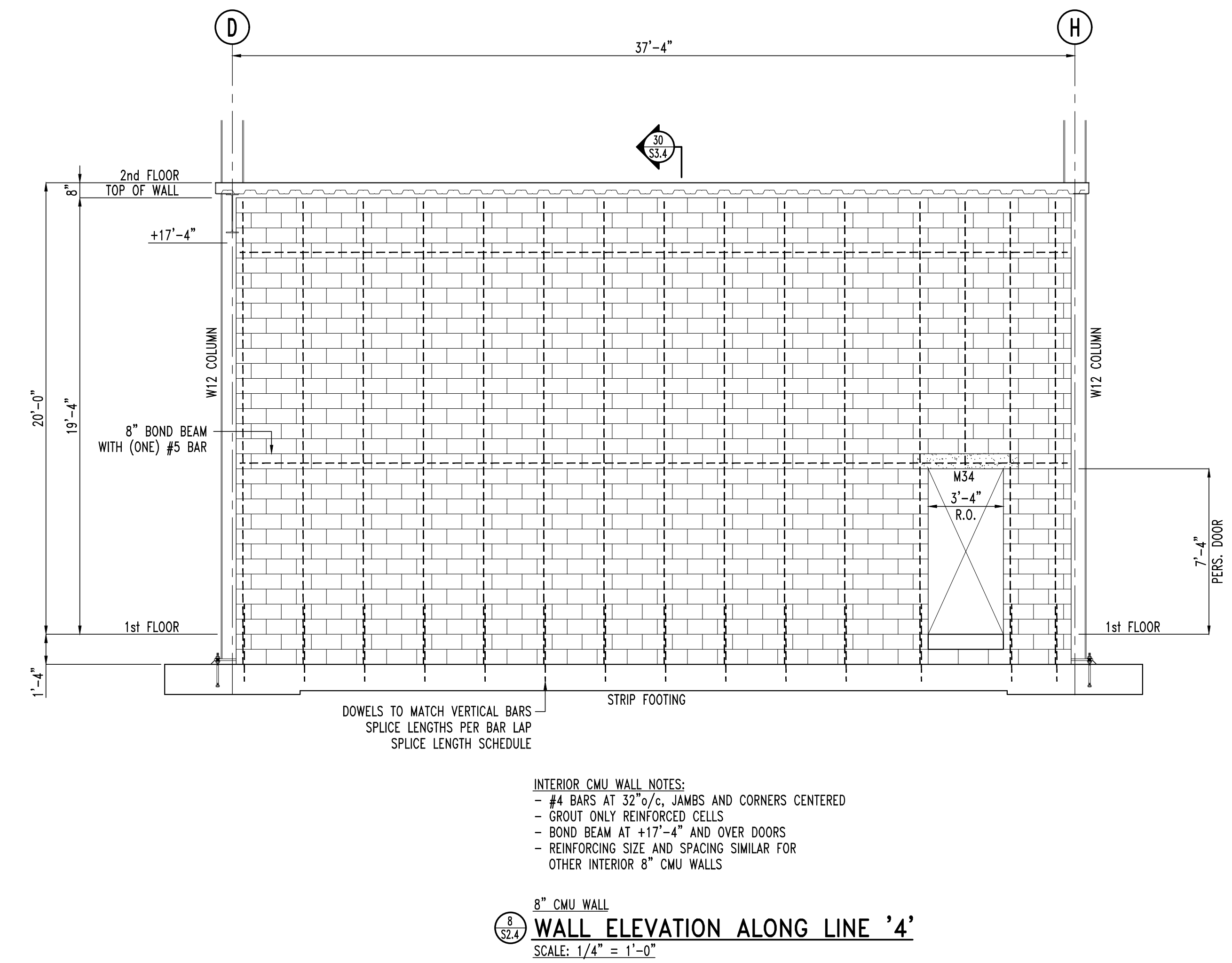
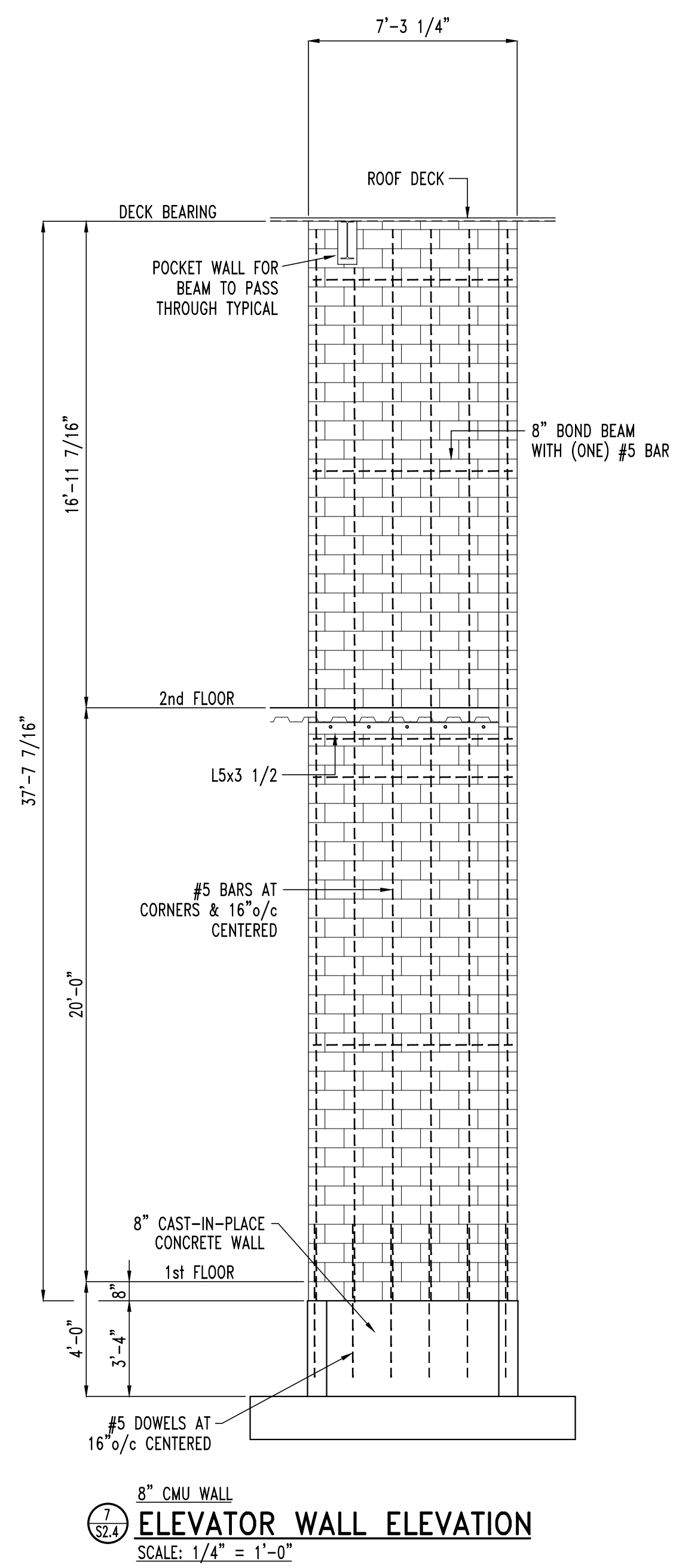
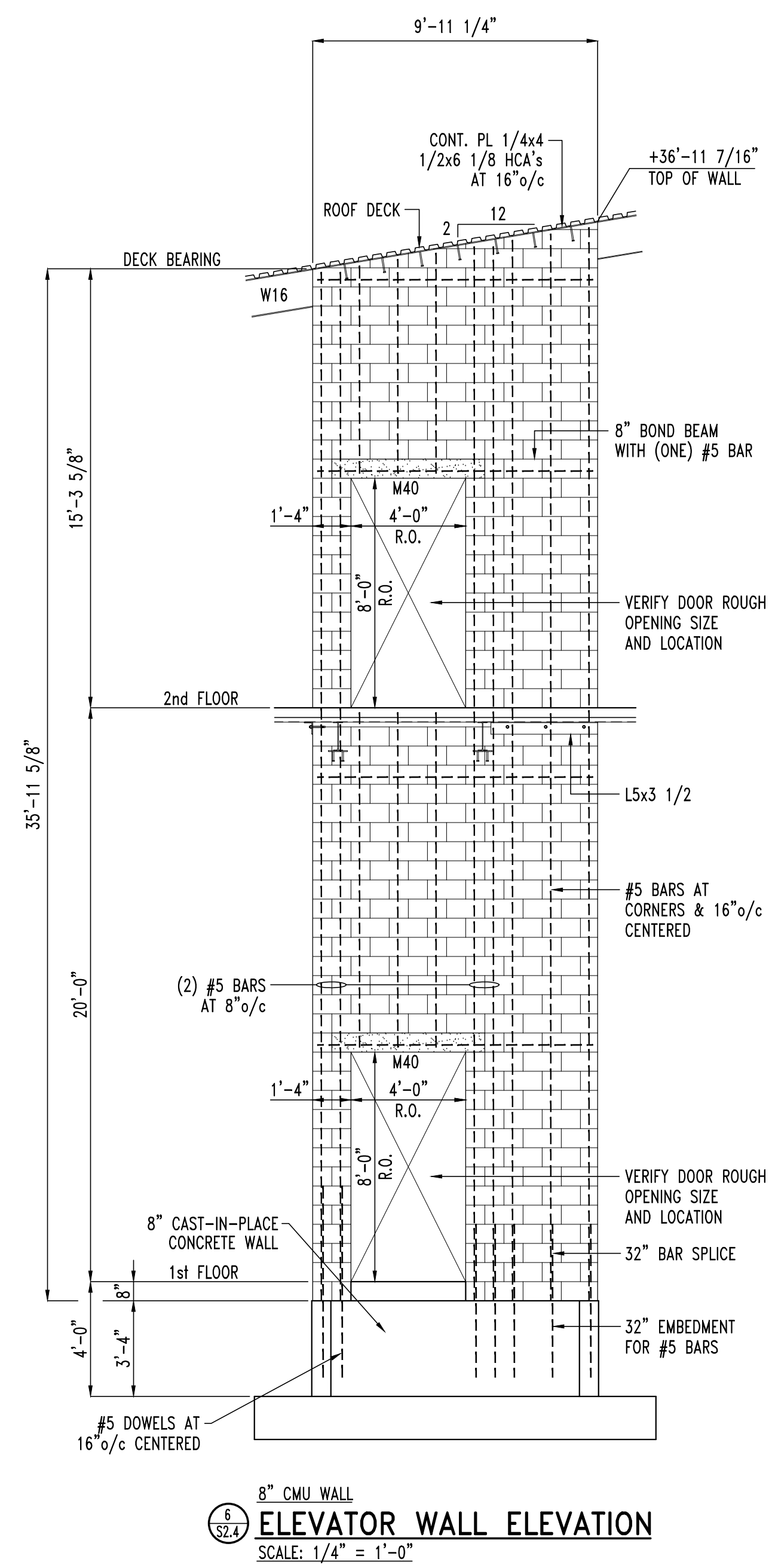
D. R. REYNOLDS COMPANY, INC.
 1500 EAST 7TH STREET
 STAR, NORTH CAROLINA 27386
 (910) 428-1380

ISSUE DATE: 4.10.24
 DRAWN BY: HLS
 CHECKED BY: RSP
 PROJECT:

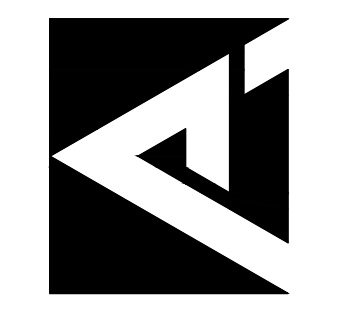
CONCORD FIRE STATION NO. 6
DAVID DISTRICT - NEW FACILITY
CONCORD, NC
 MASONRY WALL ELEVATIONS

ISSUE SCHEDULE		
NO.	DATE	REFERENCE
1	4/10/2024	CONSTRUCTION SET

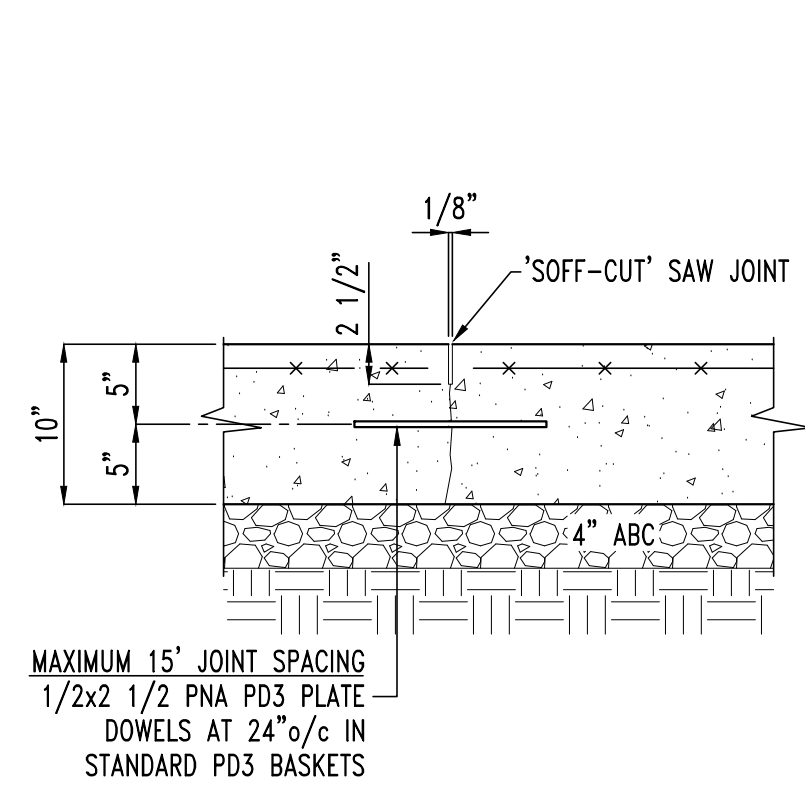
P.E. PROJECT NO. 23-1351
S2.3



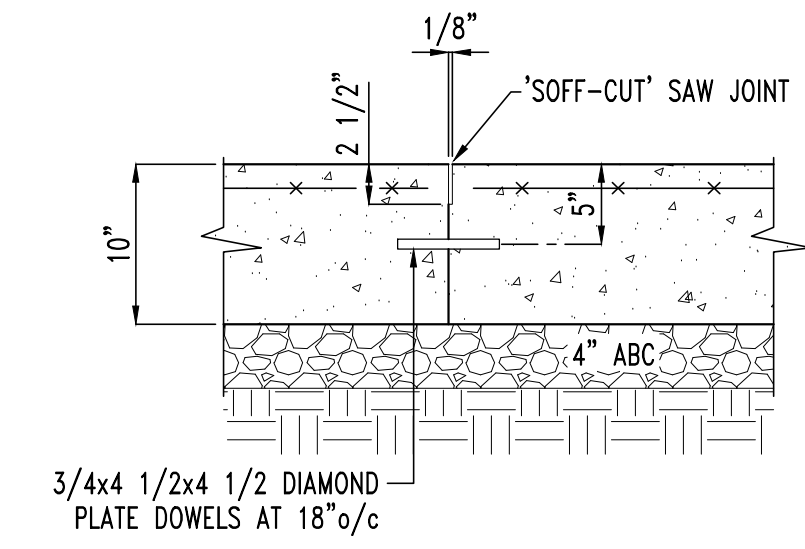
MASONRY WALL ELEVATIONS
SCALE: 1/4" = 1'-0"
- REFER TO S2.3 FOR MASONRY NOTES AND LINTEL SCHEDULE.



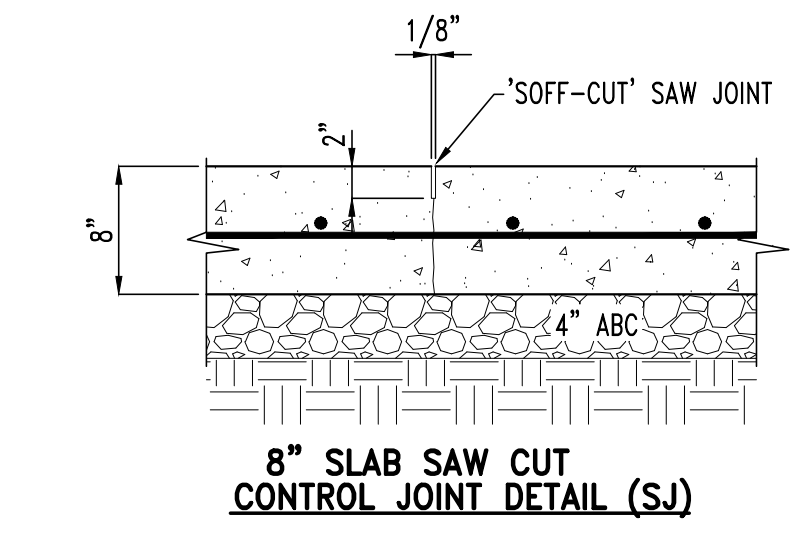
ISSUE	DATE	REFERENCE
1	4/10/2024	CONSTRUCTION SET



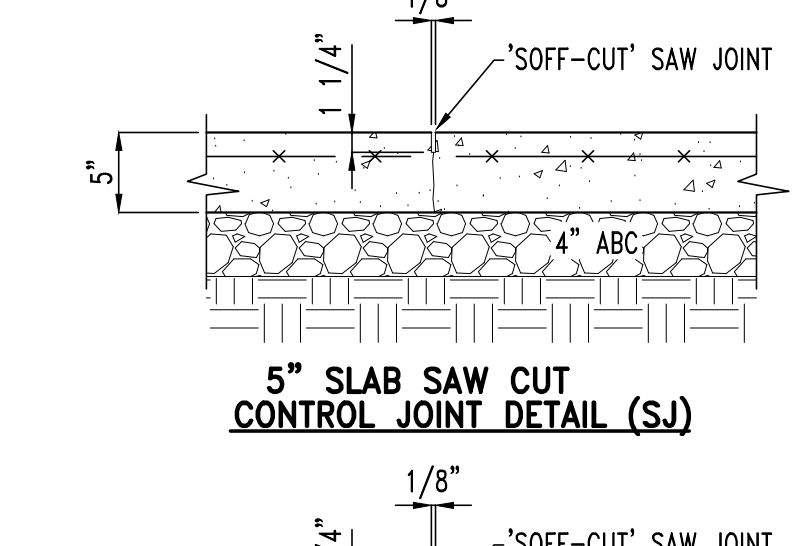
10" SLAB SAW CUT CONTROL JOINT DETAIL (Sj)



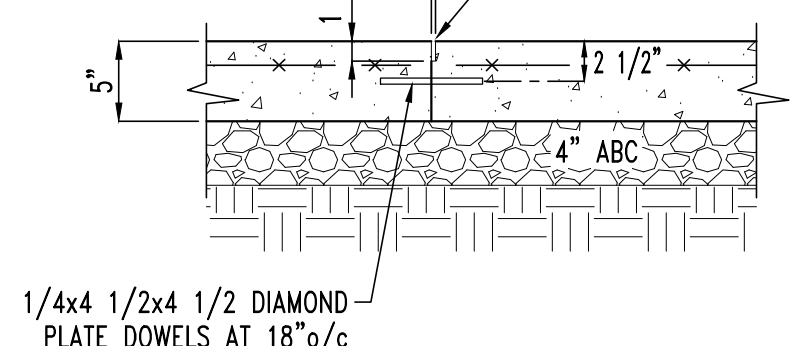
10" SLAB CONSTRUCTION JOINT DETAIL (Cj)



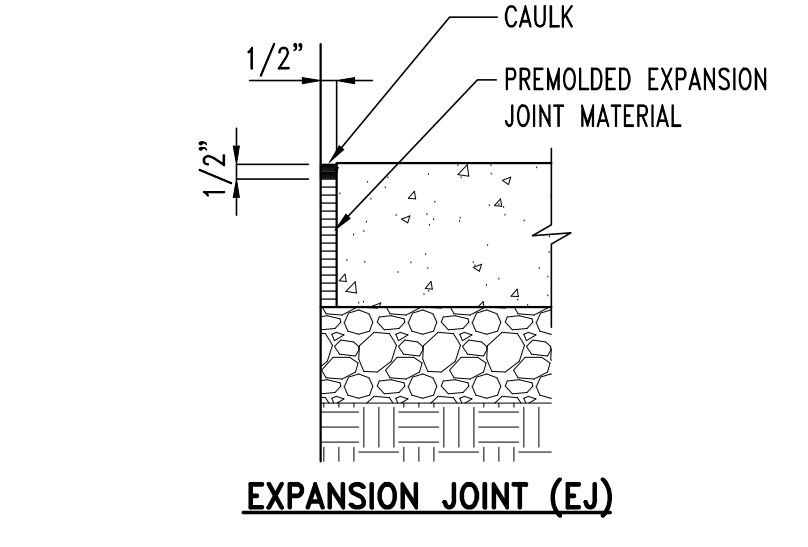
8" SLAB SAW CUT CONTROL JOINT DETAIL (Sj)



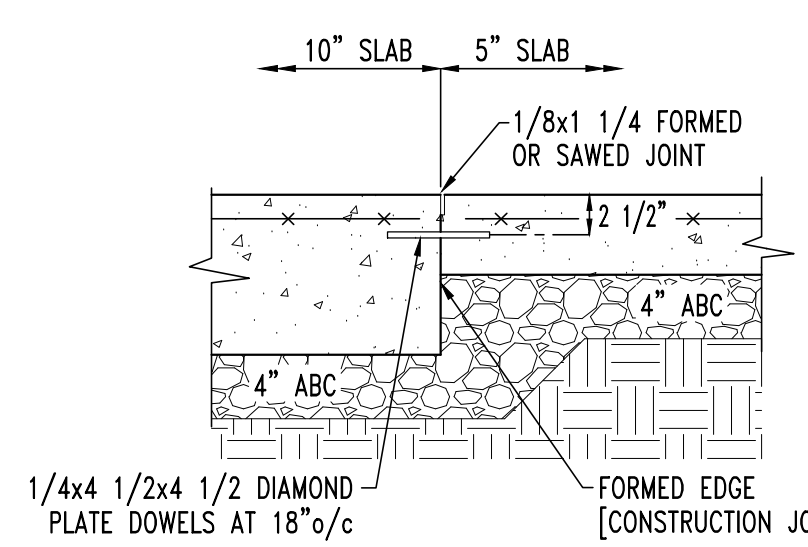
5" SLAB SAW CUT CONTROL JOINT DETAIL (Sj)



5" SLAB CONSTRUCTION JOINT DETAIL (Cj)



EXPANSION JOINT (Ej)



10" SLAB/5" SLAB TRANSITION DETAIL

MINIMUM REINFORCING SPLICE LENGTH SCHEDULE
TENSION SPLICES PER ACI 318-14 25.5.2
 $F_y = 60,000 \text{ PSI}$ $f'_c = 4000 \text{ PSI (NORMAL WEIGHT)}$

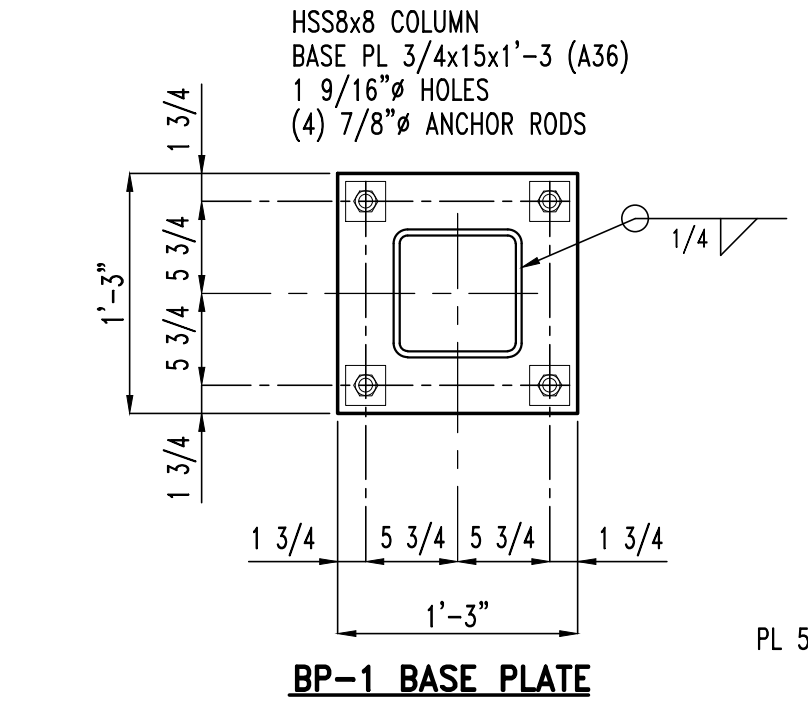
BAR SIZE	TOP BARS		OTHER BARS	
	CLASS A SPLICE	CLASS B SPLICE	CLASS A SPLICE	CLASS B SPLICE
#3	19"	25"	15"	19"
#4	25"	33"	19"	25"
#5	31"	41"	24"	31"
#6	37"	49"	29"	37"
#7	54"	71"	42"	54"
#8	62"	81"	48"	62"
#9	70"	91"	54"	70"
#10	78"	101"	60"	78"
#11	85"	111"	66"	85"

MINIMUM REINFORCING SPLICE LENGTH SCHEDULE
TENSION SPLICES PER ACI 318-14 25.5.2
 $F_y = 60,000 \text{ PSI}$ $f'_c = 3000 \text{ PSI (NORMAL WEIGHT)}$

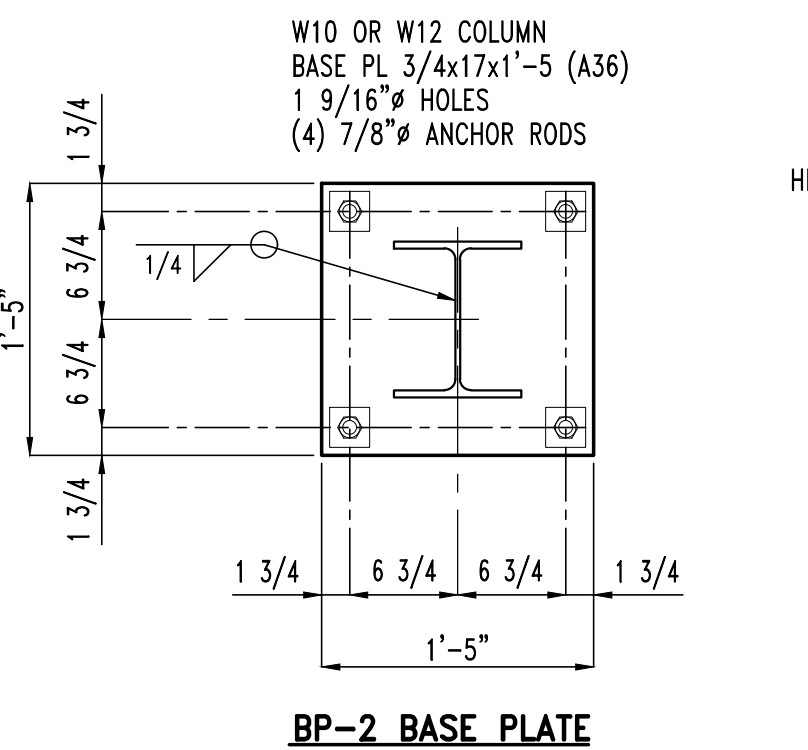
BAR SIZE	TOP BARS		OTHER BARS	
	CLASS A SPLICE	CLASS B SPLICE	CLASS A SPLICE	CLASS B SPLICE
#3	22"	28"	17"	22"
#4	29"	37"	22"	29"
#5	36"	47"	28"	36"
#6	43"	56"	33"	43"
#7	63"	81"	48"	63"
#8	72"	93"	55"	72"
#9	81"	105"	62"	81"
#10	89"	116"	69"	89"
#11	98"	128"	76"	98"

- NOTES:**
- SPLICE LENGTHS ARE BASED UPON SUFFICIENT BAR CLEARANCE WHERE:
 - COVER $\geq db$
 - CLEAR SPACING $> 2db$ (MINIMUM 2")
 - TOP BARS = HORIZONTAL BARS PLACED SUCH THAT MORE THAN 12" OF FRESH CONCRETE IS CAST BELOW BAR.
 - PROVIDE CLASS B SPLICES EXCEPT WHERE CLASS A SPLICES ARE ALLOWED BY ACI 318-14 TABLE 25.5.2.1

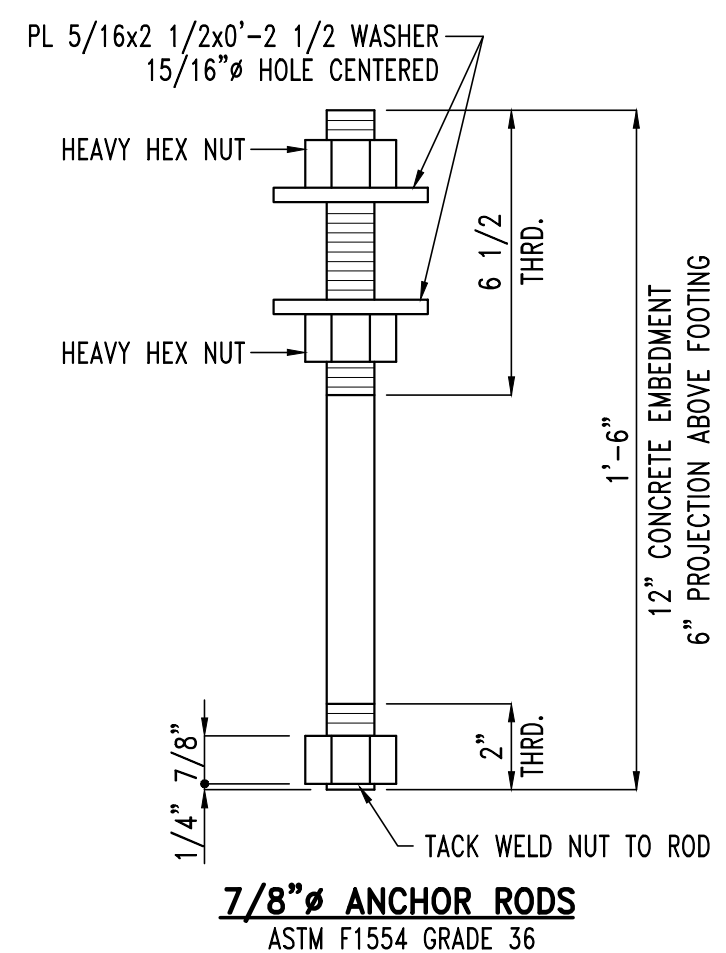
REINFORCING STEEL SPLICE SCHEDULES



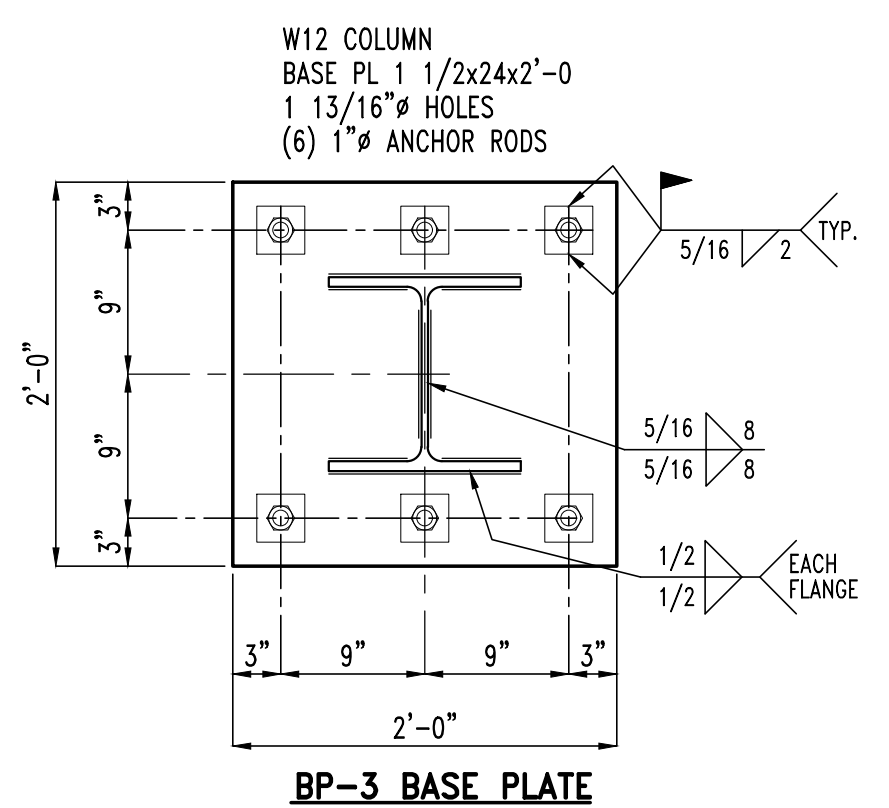
BP-1 BASE PLATE



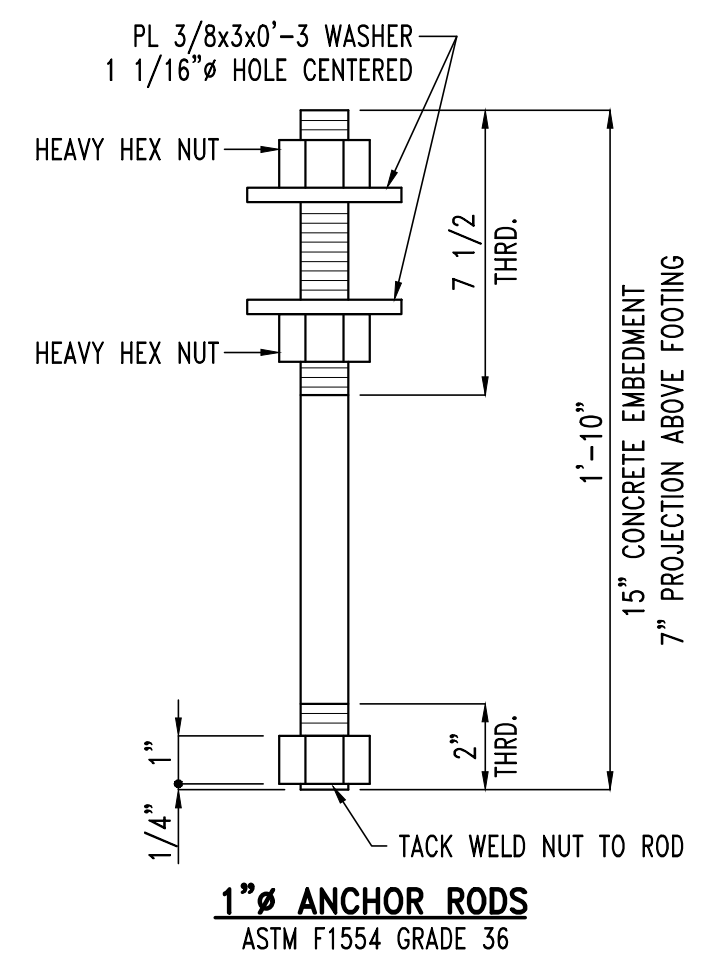
BP-2 BASE PLATE



7/8" ANCHOR RODS
ASTM F1554 GRADE 36



BP-3 BASE PLATE

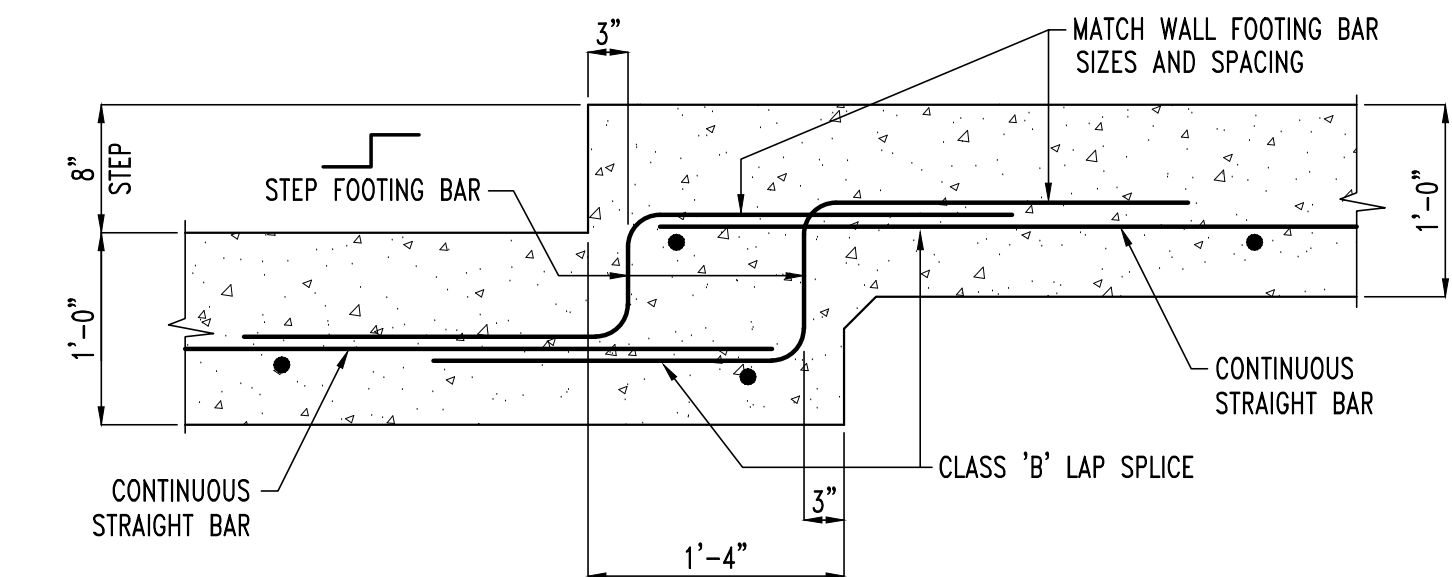


1" ANCHOR RODS
ASTM F1554 GRADE 36

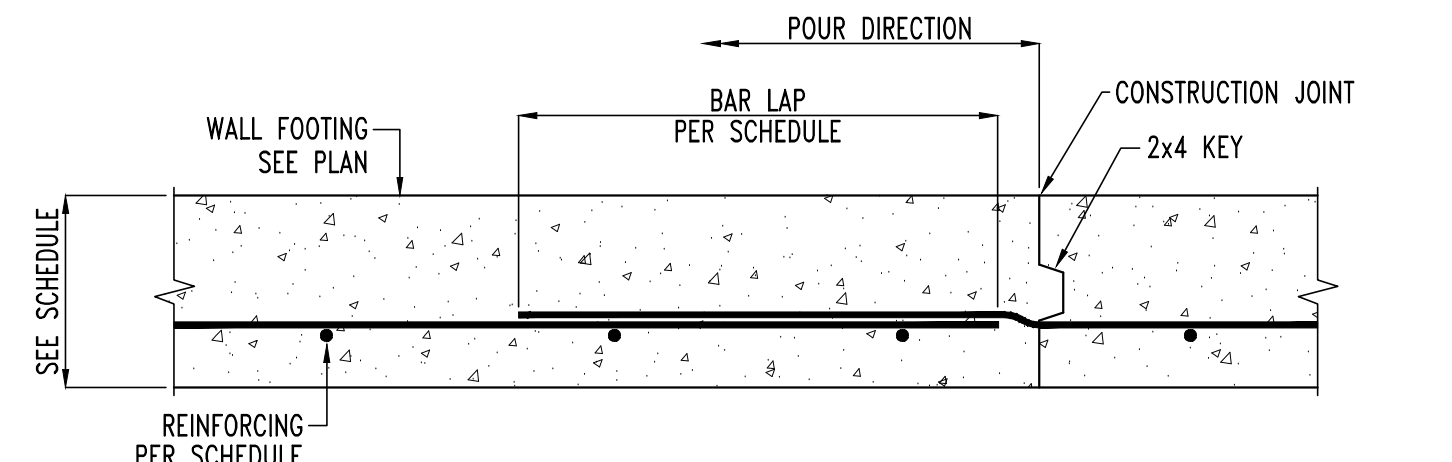
COLUMN BASE PLATE AND ANCHOR ROD DETAILS

FLOOR SLAB JOINT DETAILS

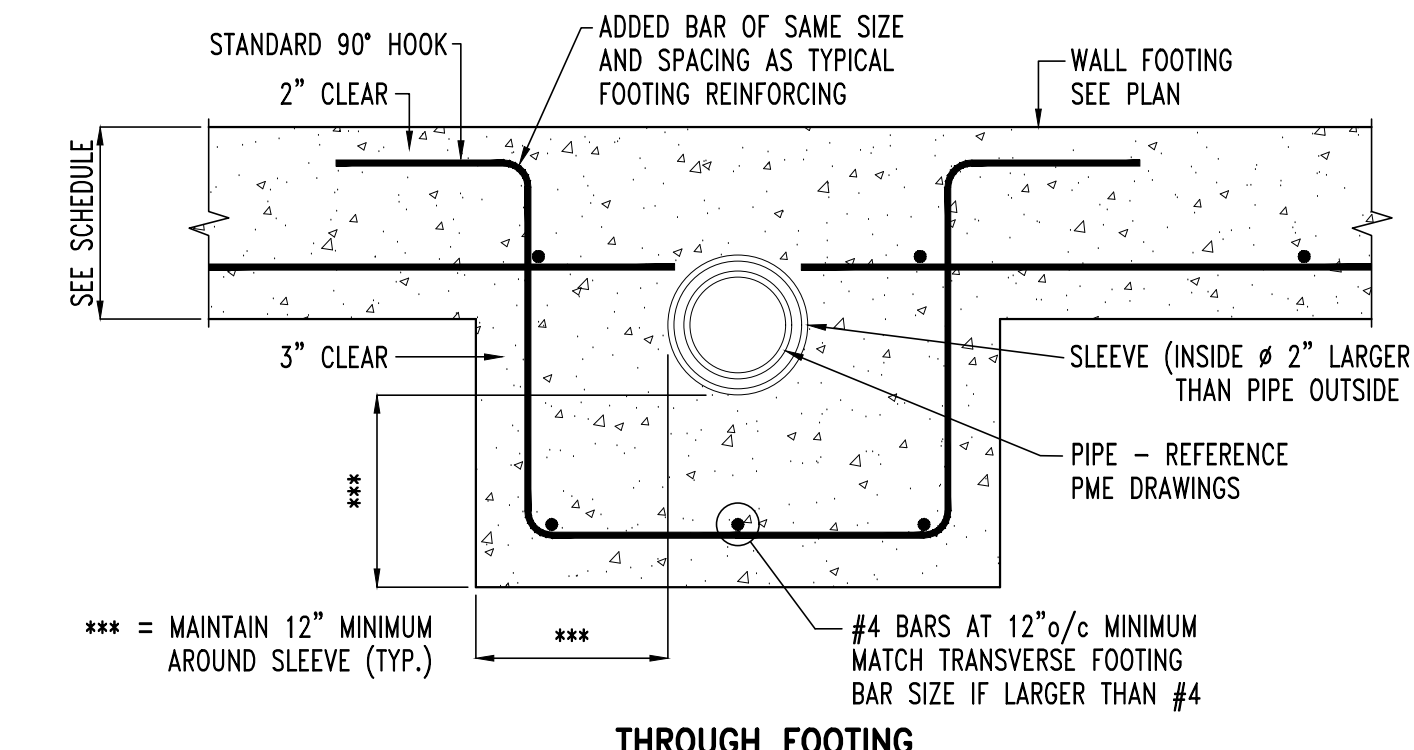
- SCALE: NONE
- PREPARE SUBGRADE PER GEOTECHNICAL SUPPORT
 - AT TRUCK BAYS FILL JOINTS WITH A SEMI-RIGID JOINT FILLER



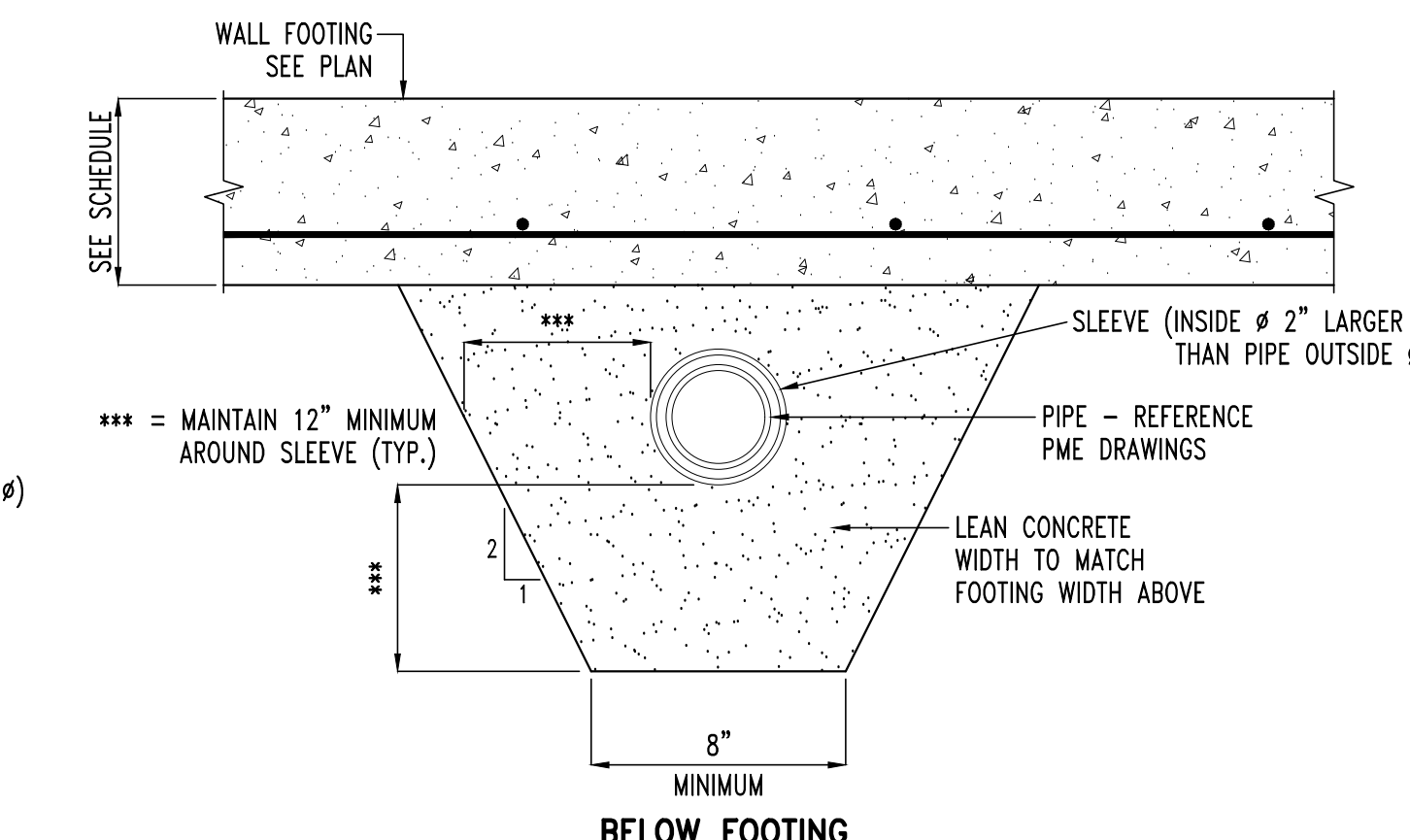
STEPPED FOOTING DETAIL



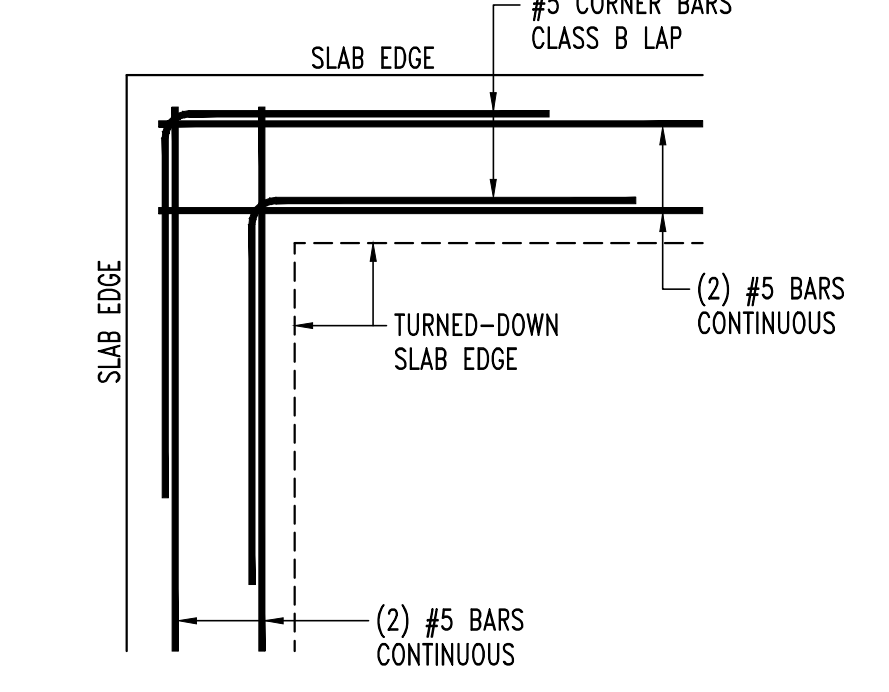
WALL FOOTING CONSTRUCTION JOINT DETAIL



THROUGH FOOTING



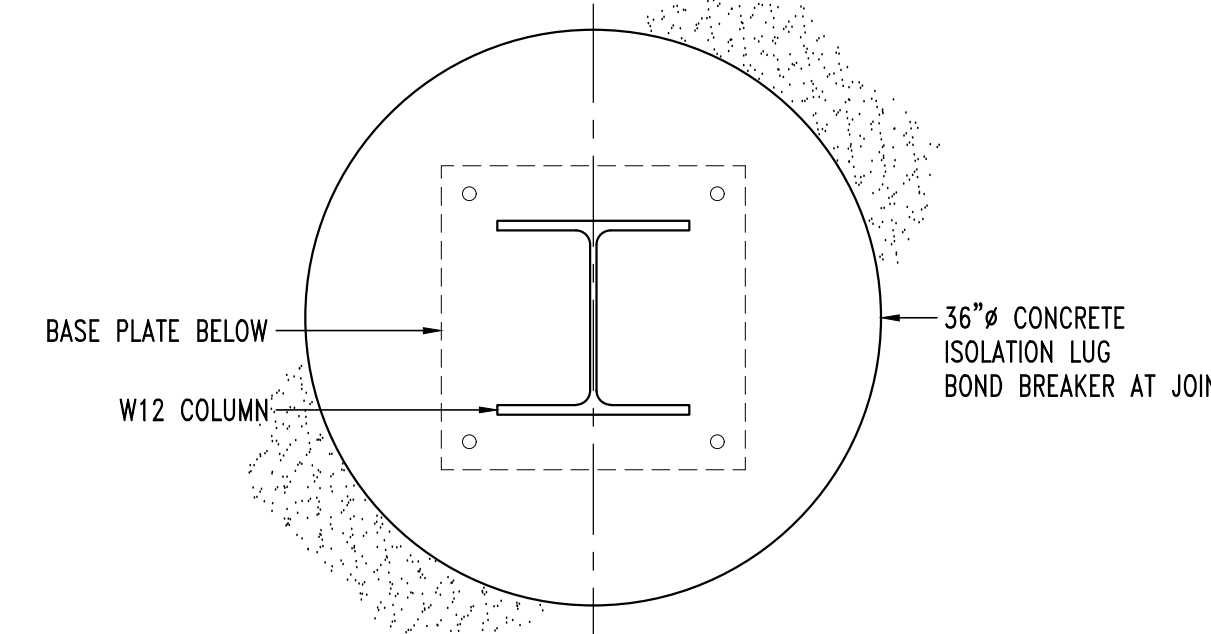
BELOW FOOTING



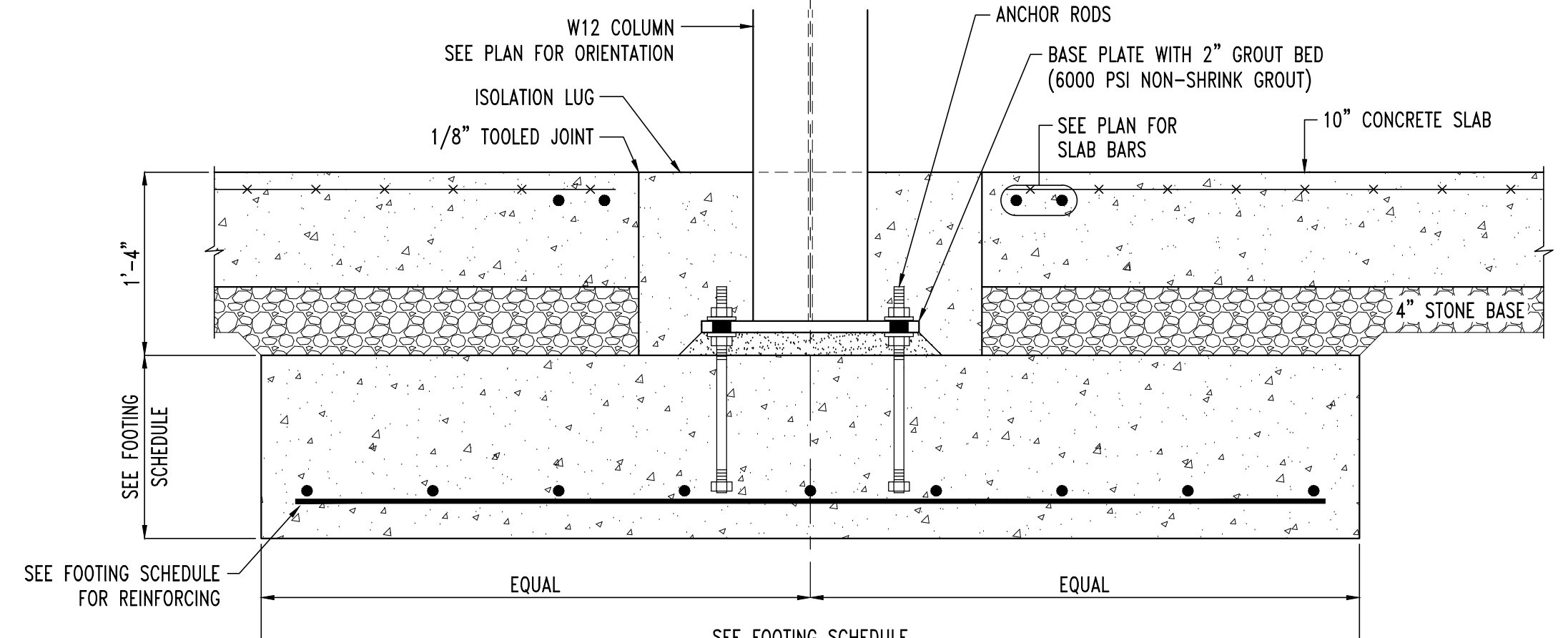
TURNED-DOWN SLAB EDGE CORNER DETAIL

PIPE PENETRATIONS AT WALL FOOTINGS

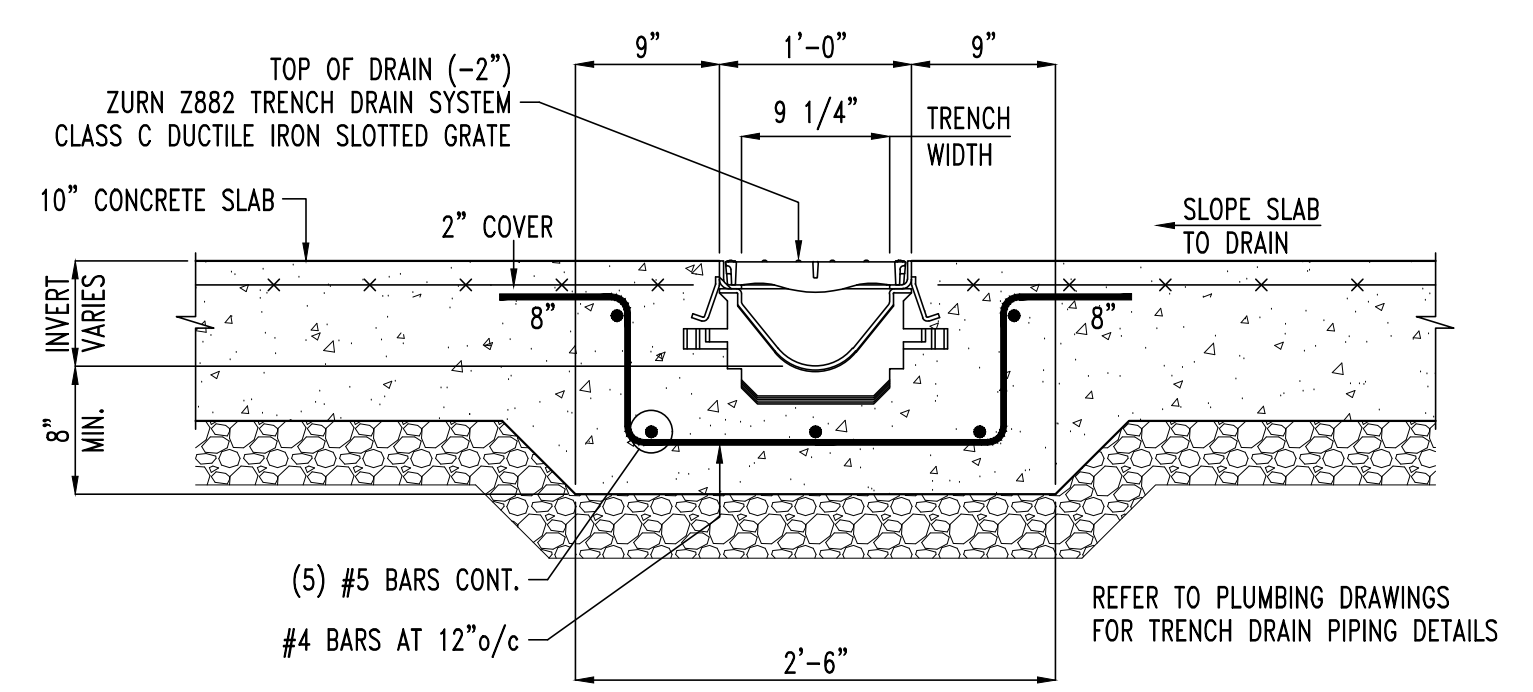
SCALE: NONE



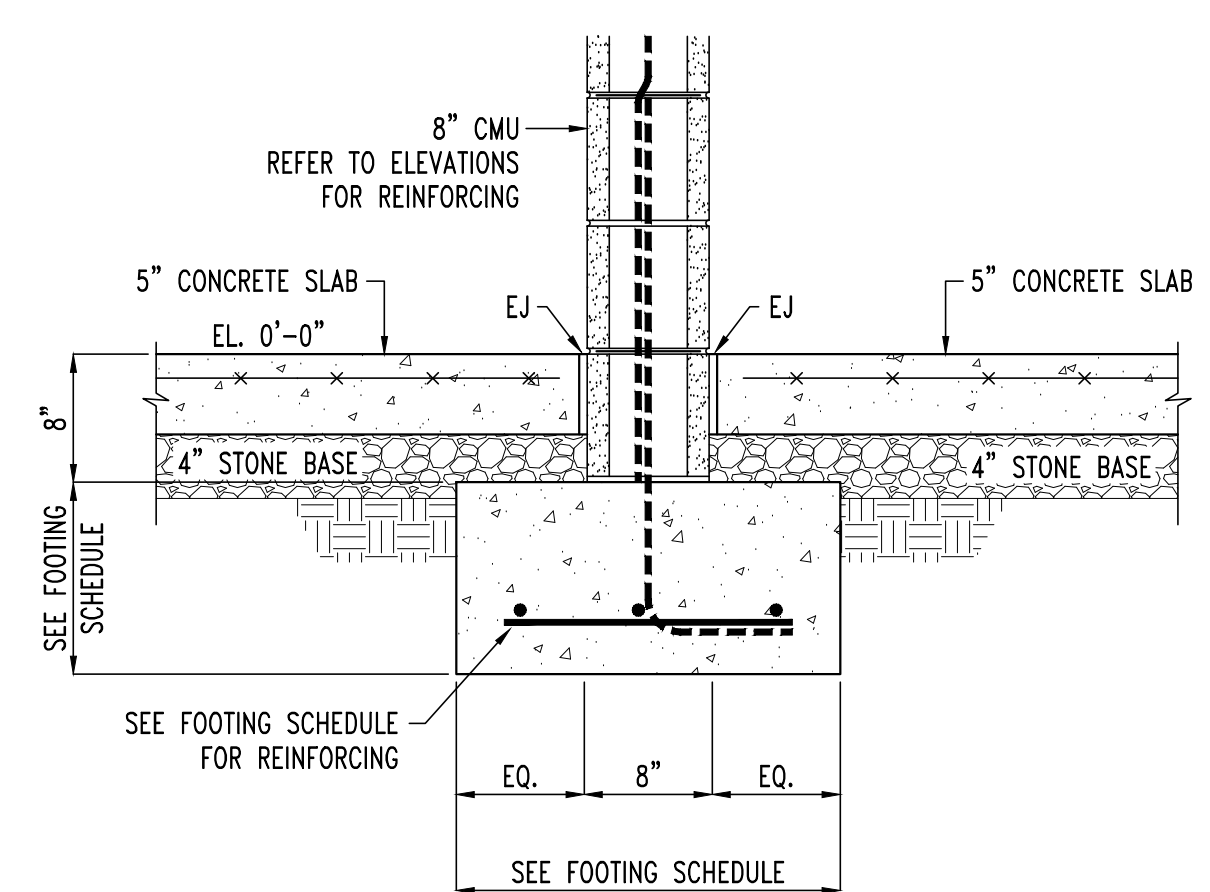
COLUMN ISOLATION LUG DETAIL



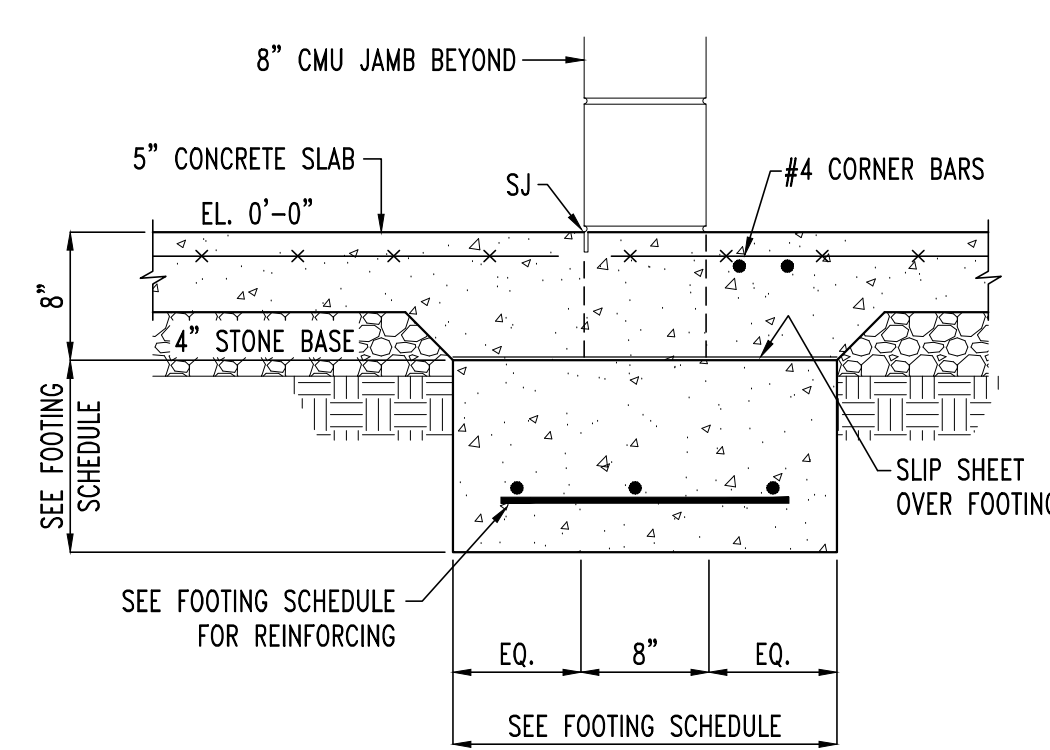
FOUNDATION DETAIL



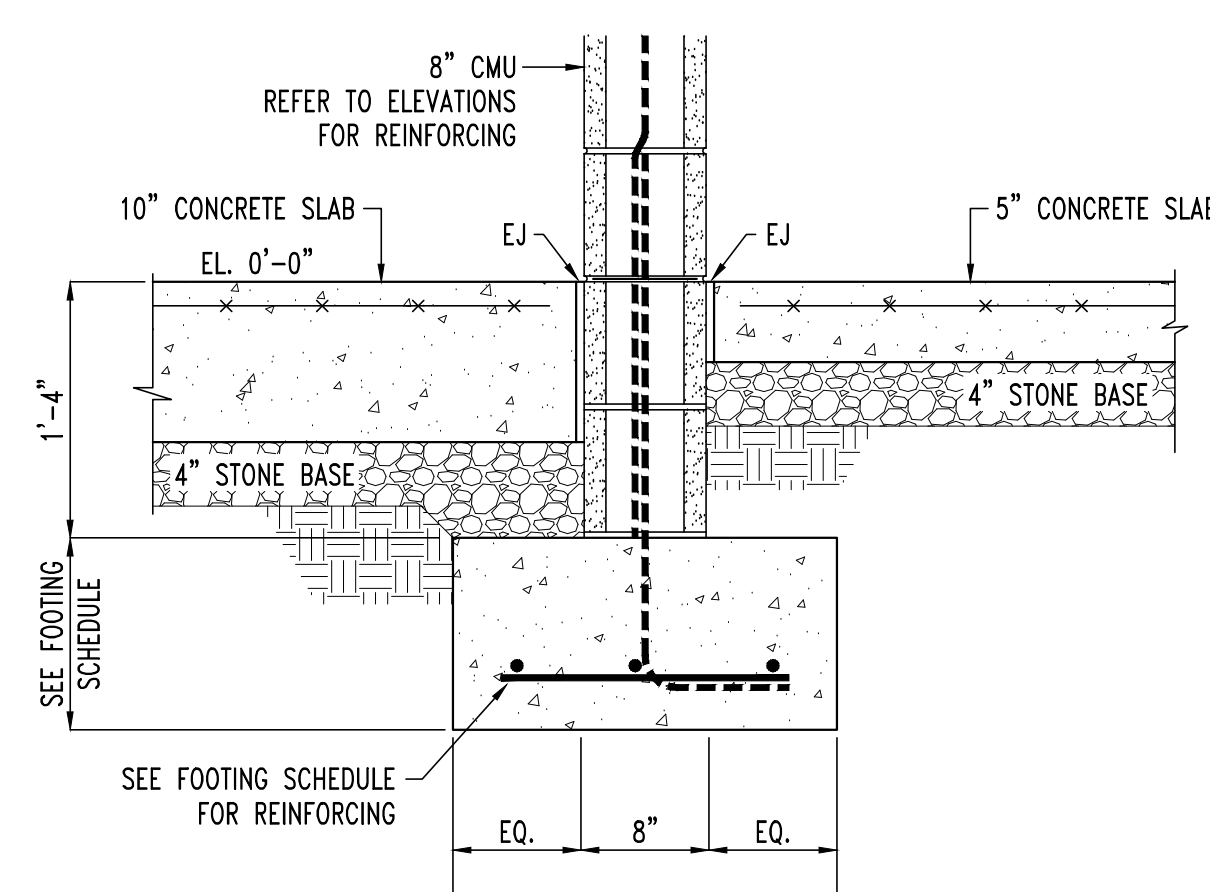
TRENCH DRAIN DETAIL



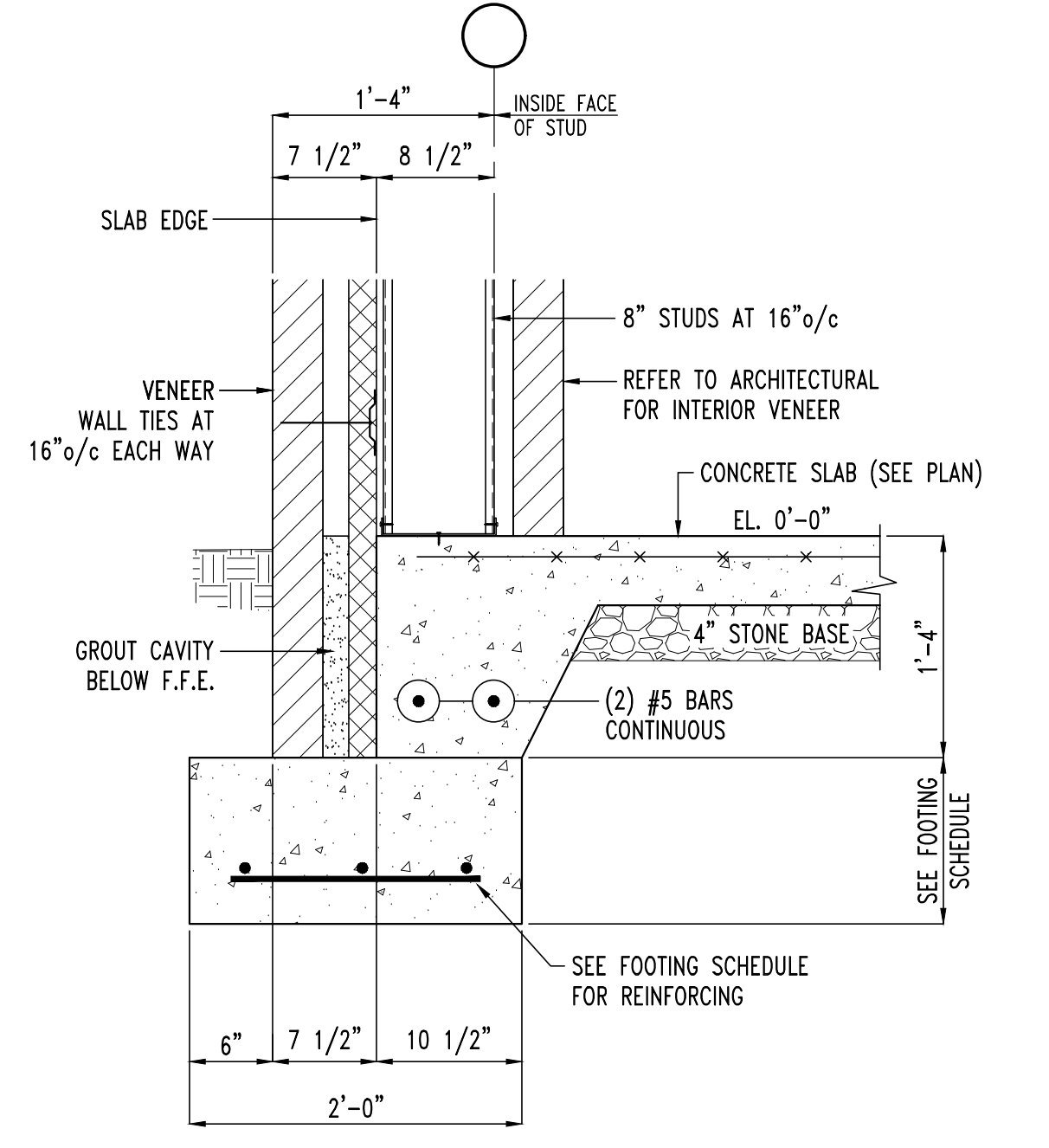
FOUNDATION DETAIL



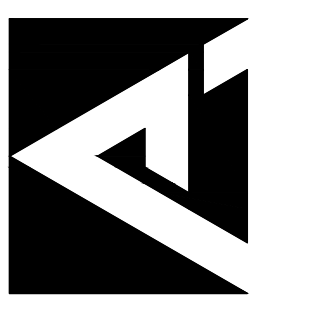
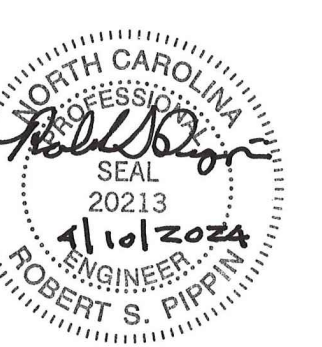
INTERIOR DOOR THRESHOLD FOUNDATION DETAIL

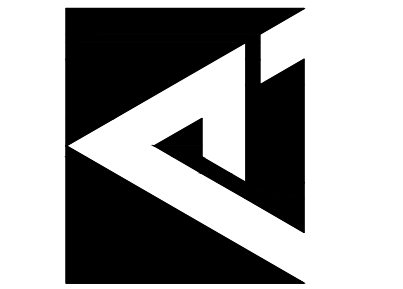
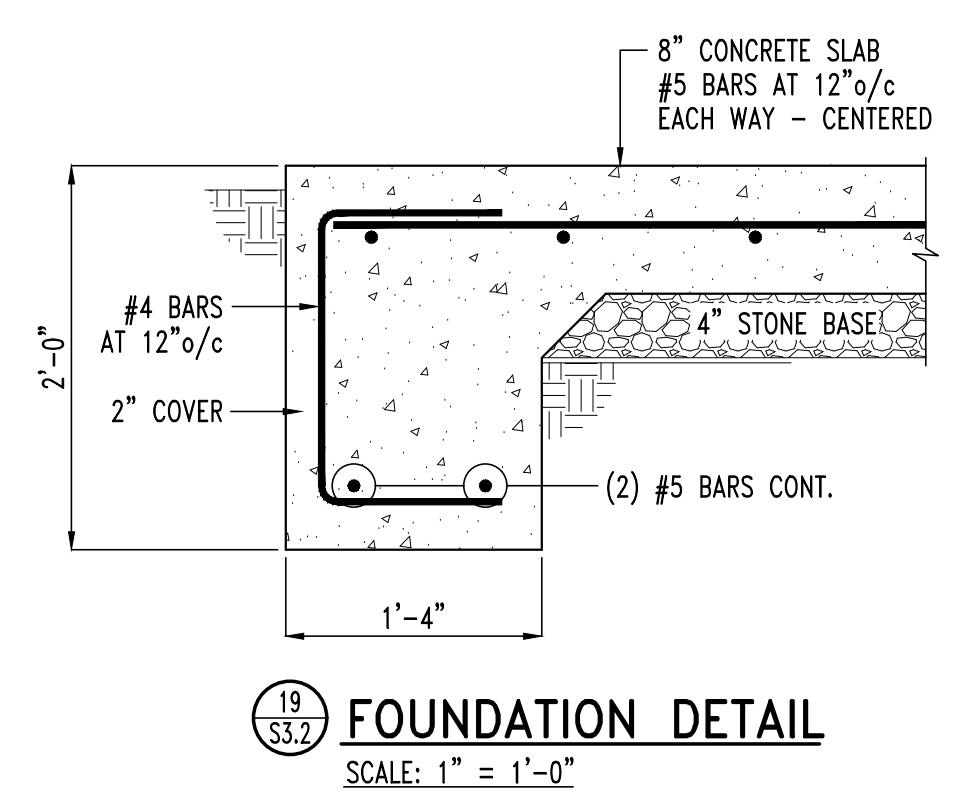
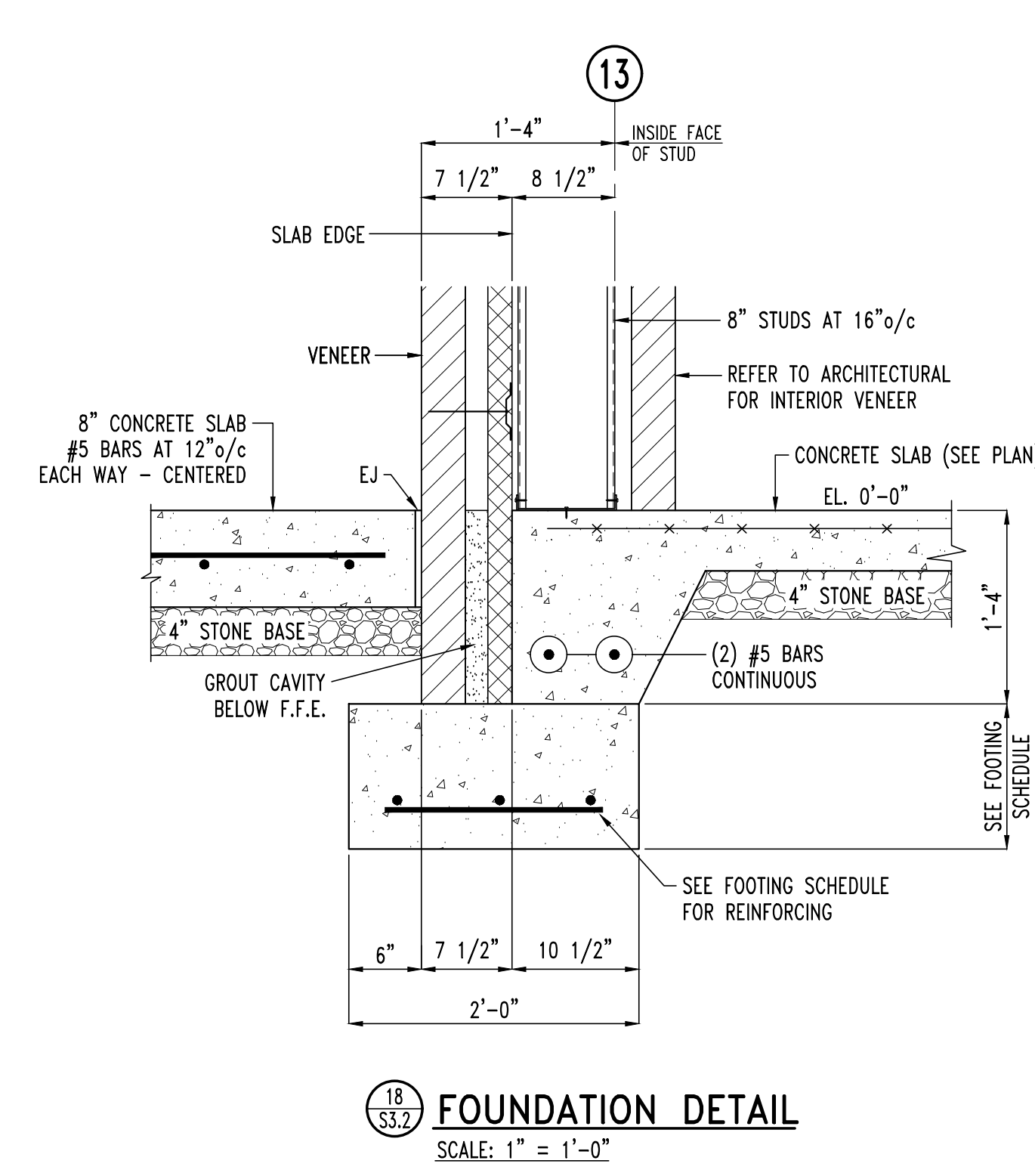
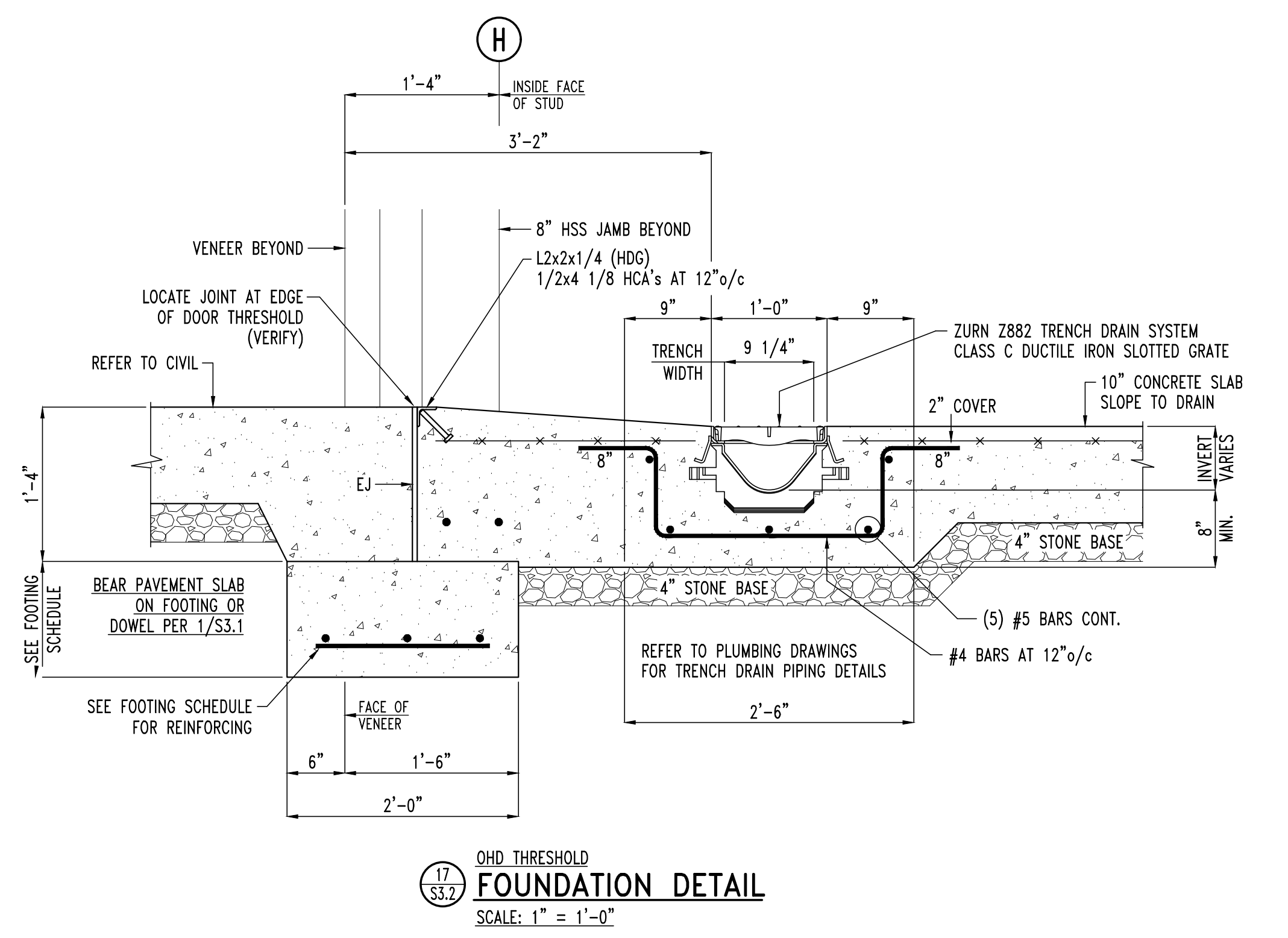
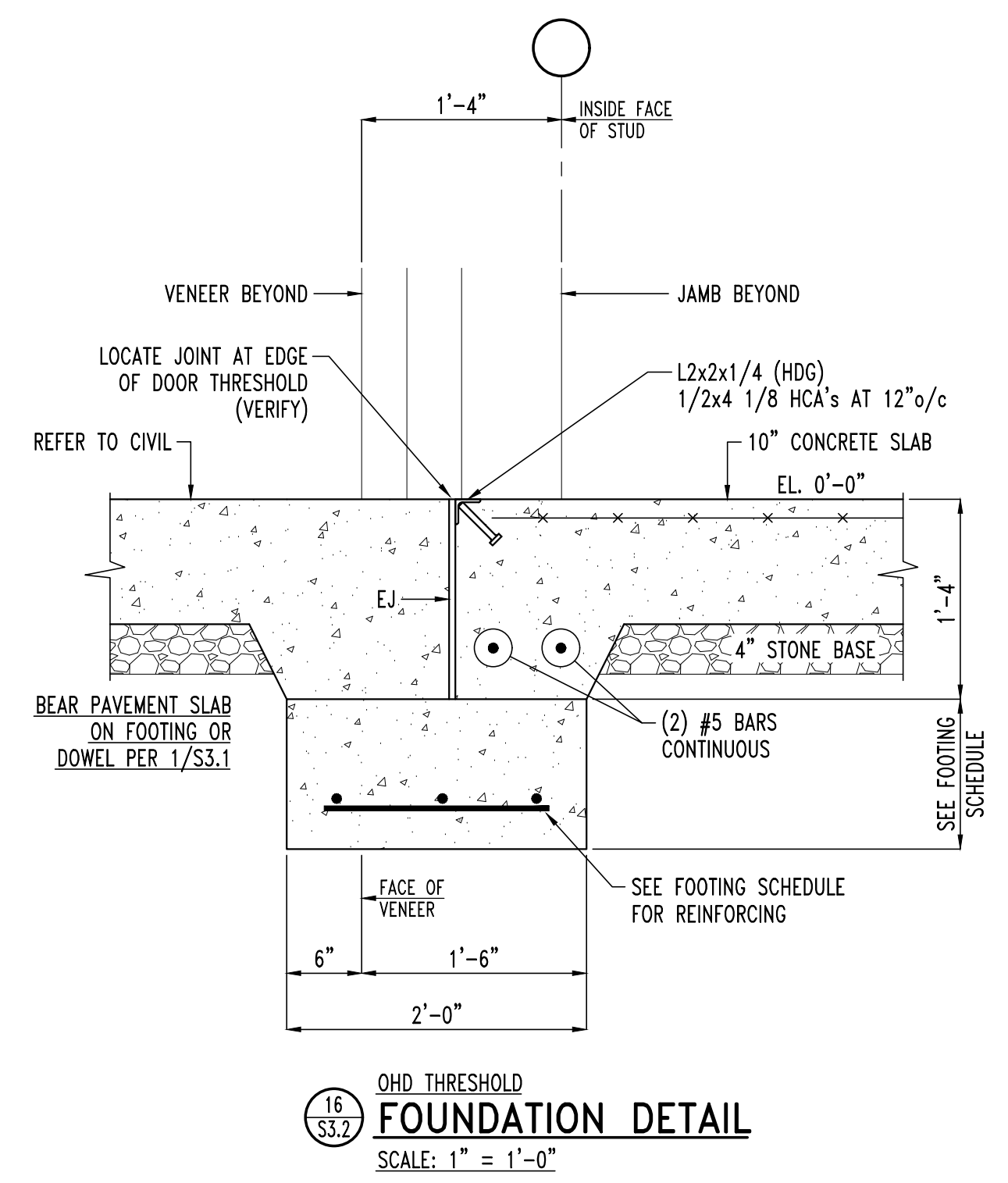
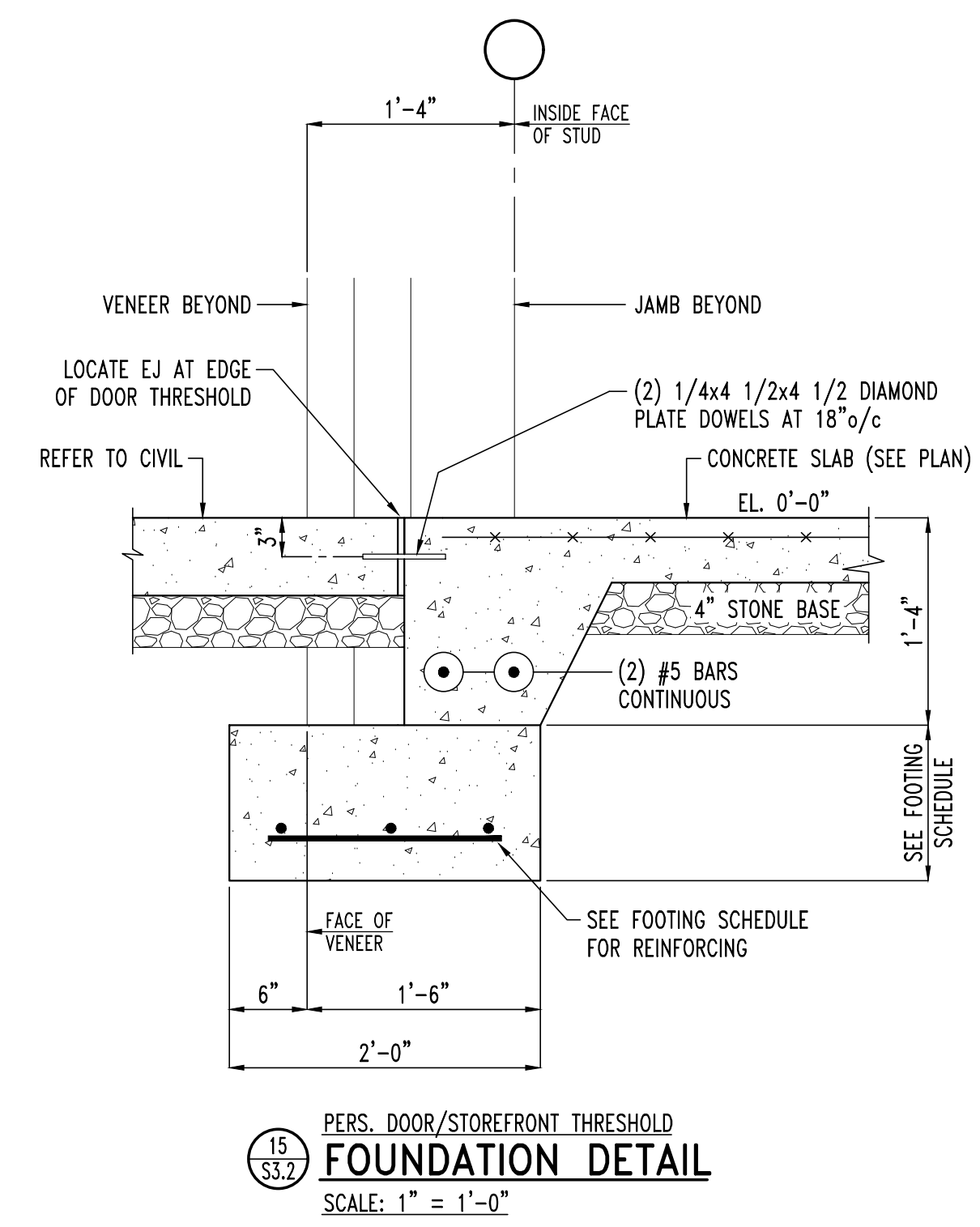
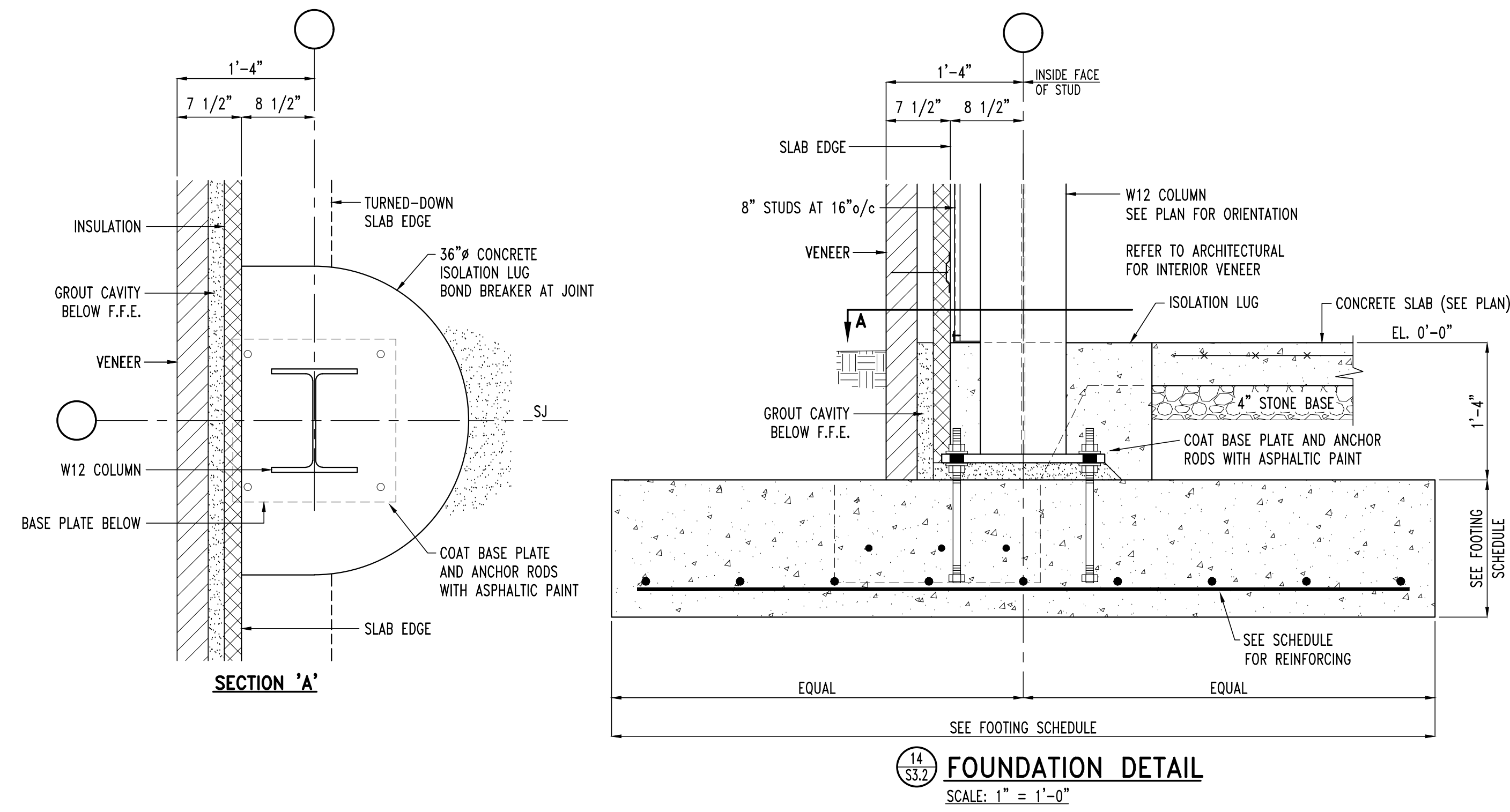


FOUNDATION DETAIL

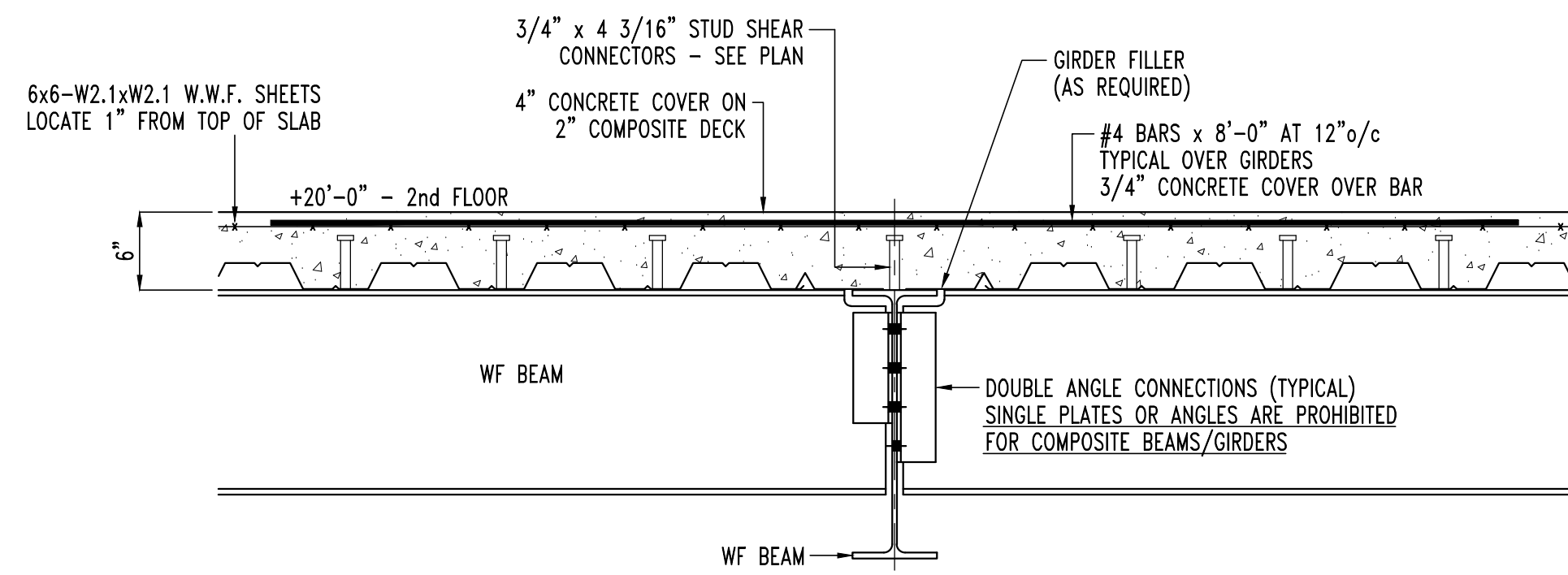


FOUNDATION DETAIL

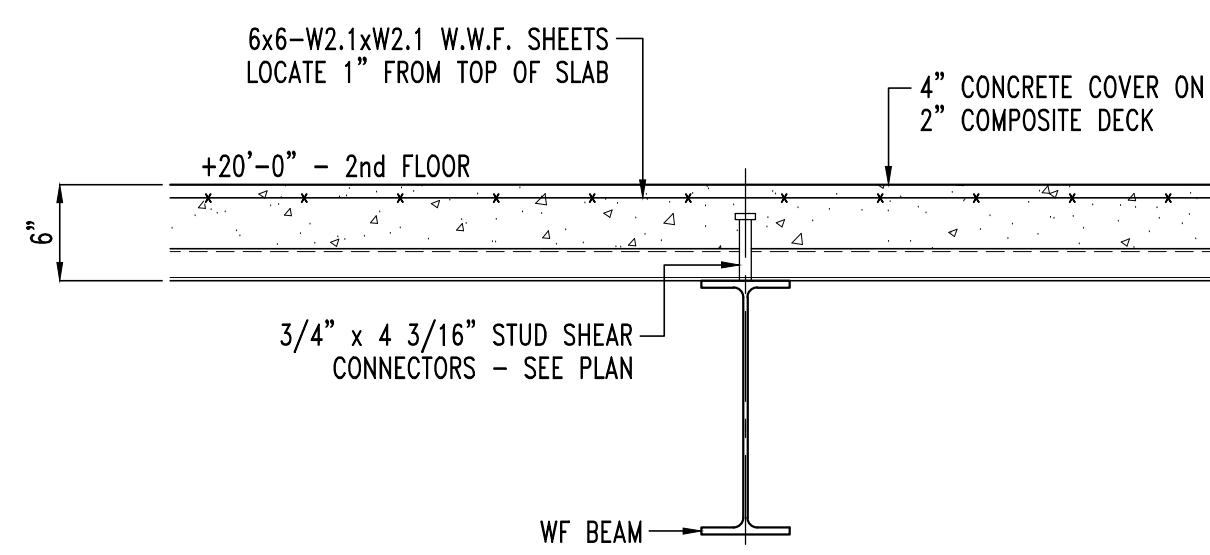




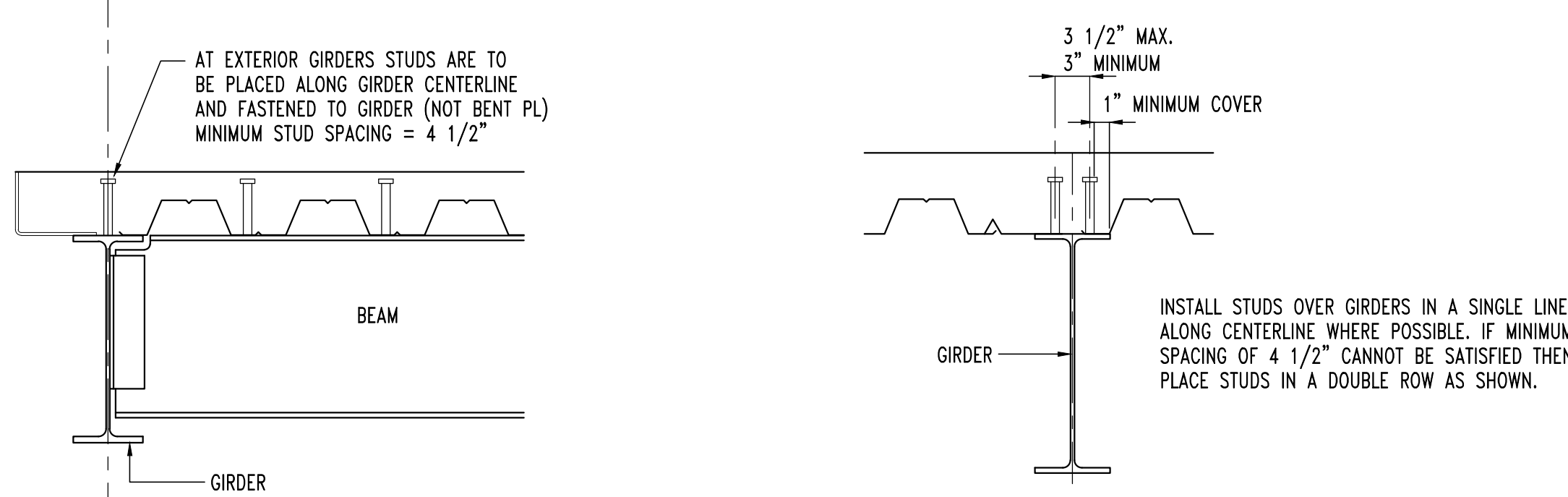
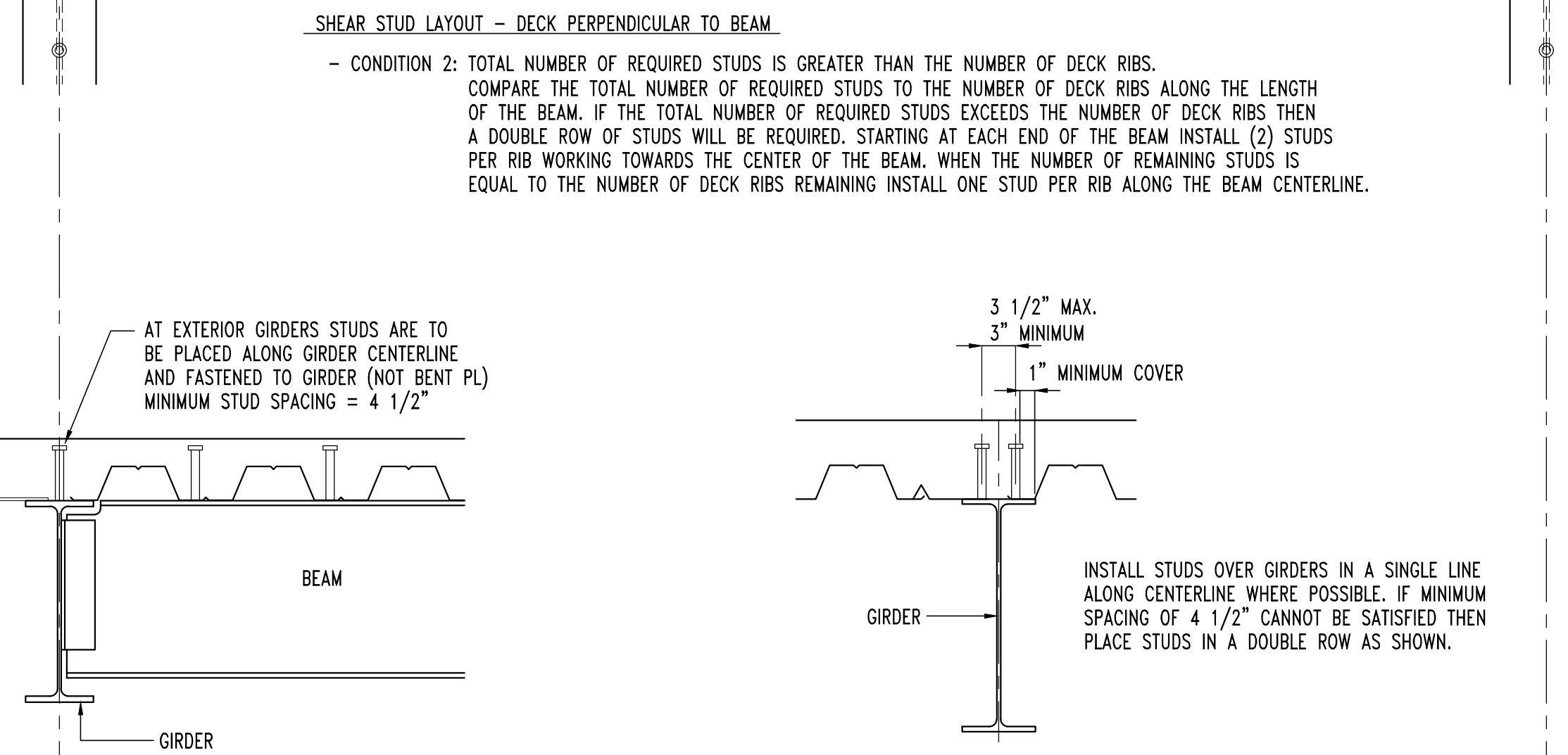
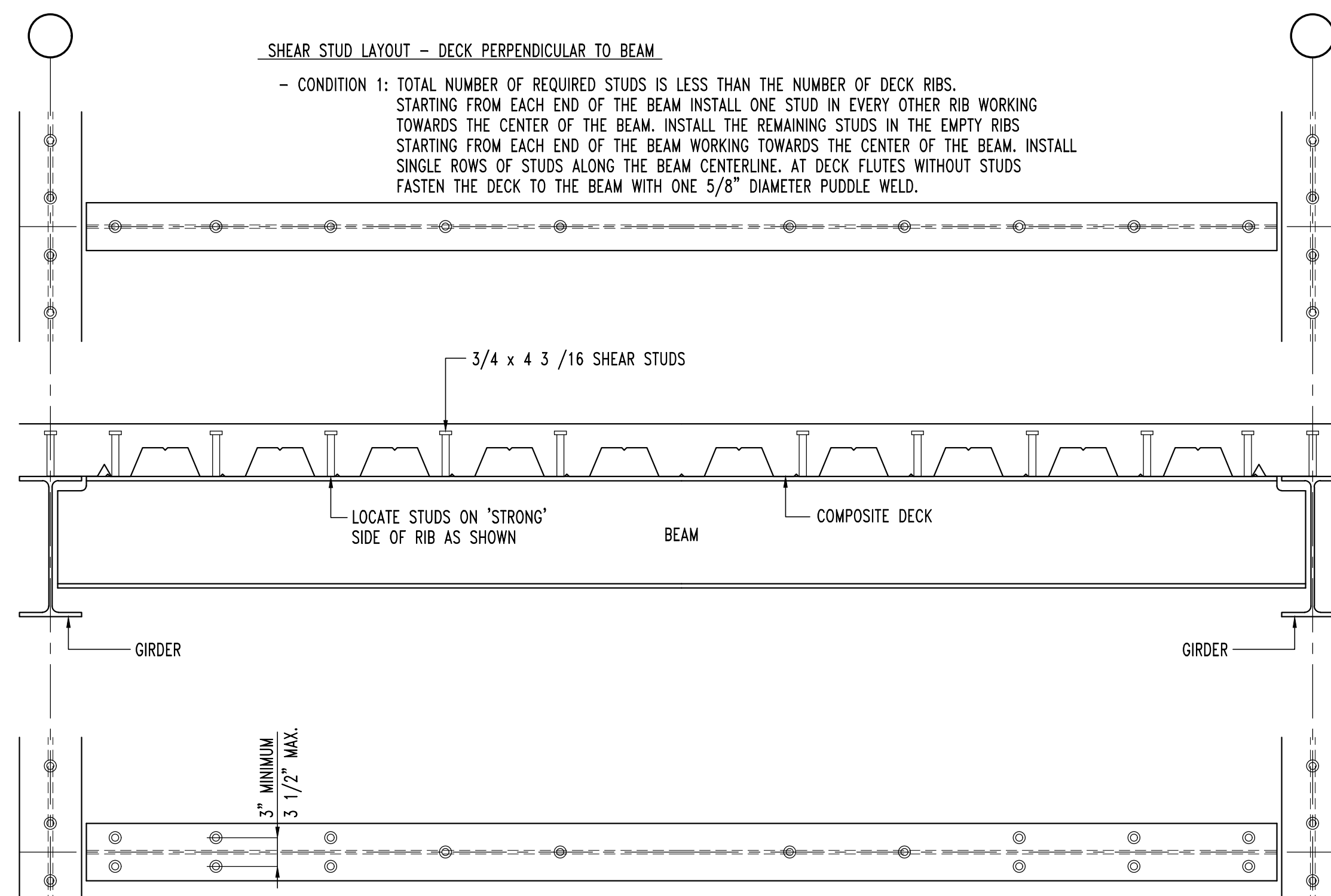
ISSUE	SCHEDULE
A	DATE: 4/10/2024 REFERENCE: CONSTRUCTION SET



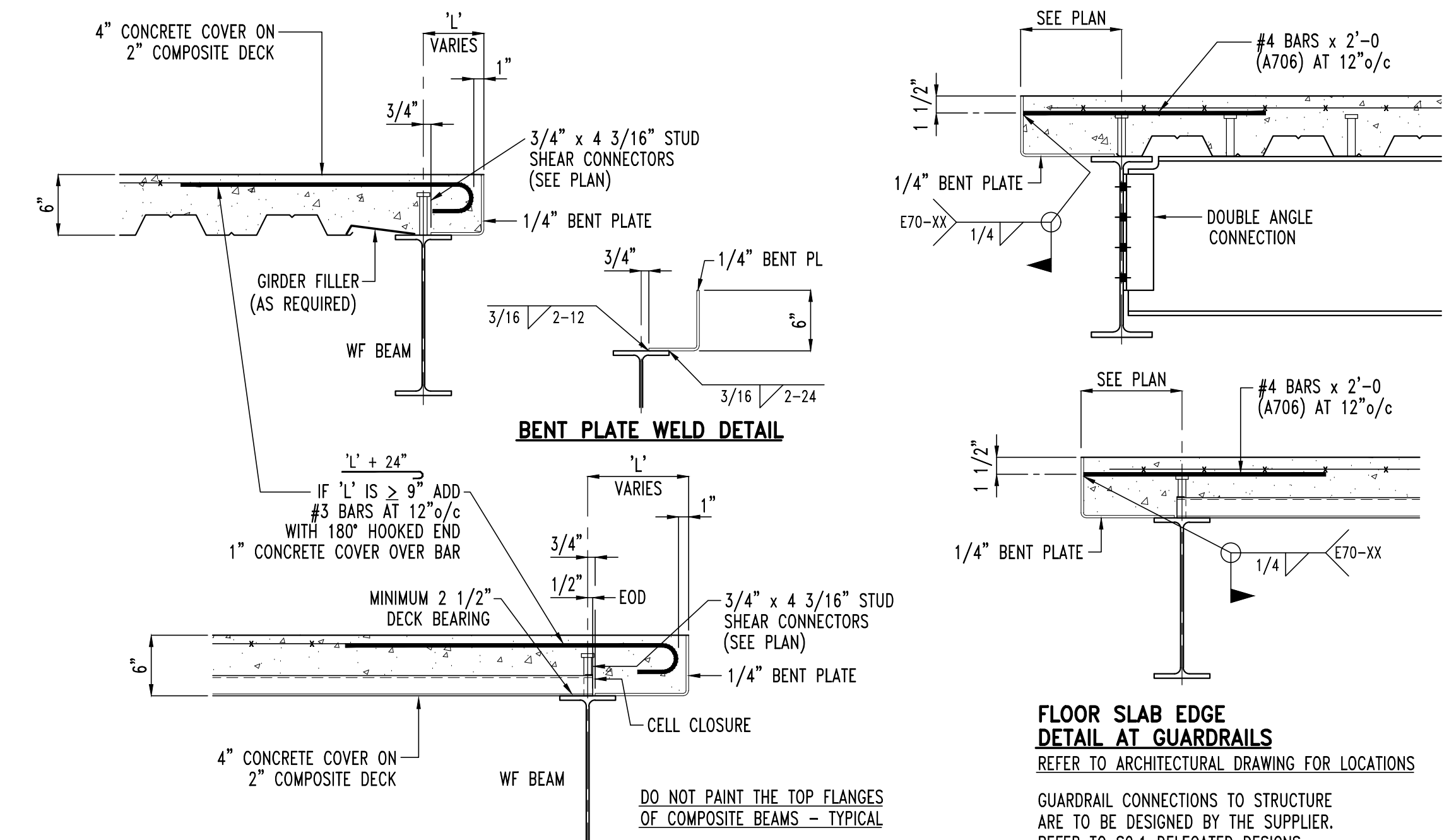
1 FLOOR SLAB - COMPOSITE GIRDER DETAILS
SCALE: 1" = 1'-0"



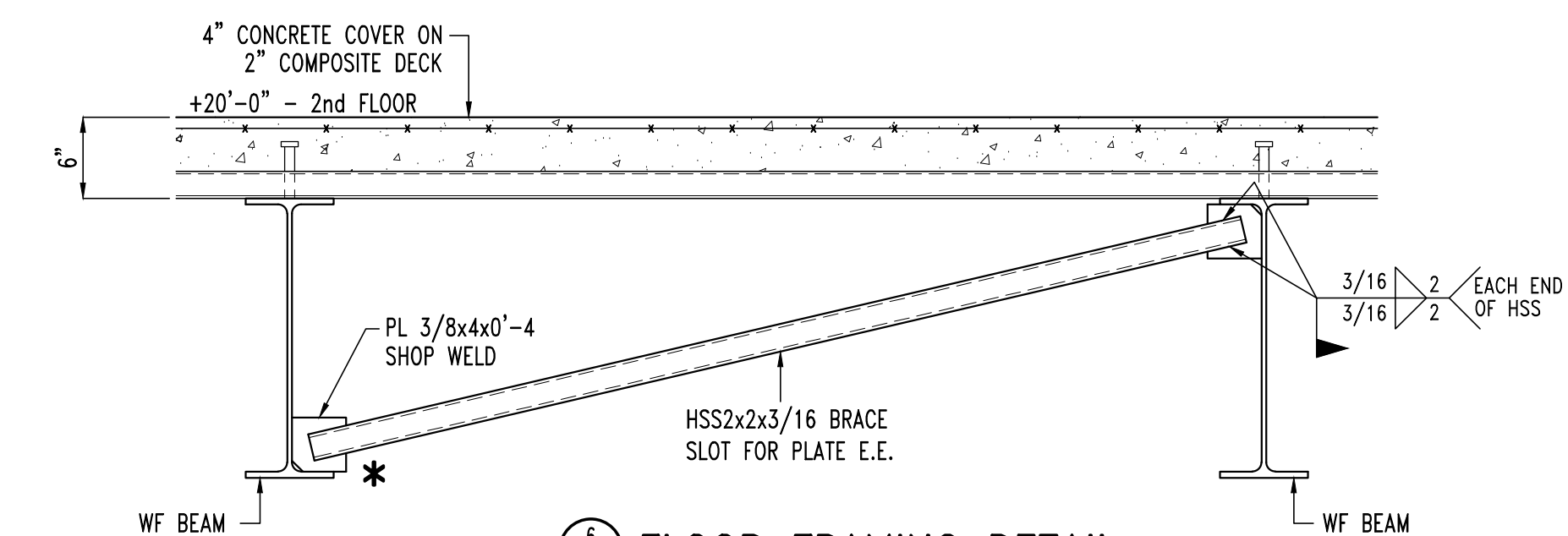
2 FLOOR SLAB - COMPOSITE BEAM DETAILS
SCALE: 1" = 1'-0"



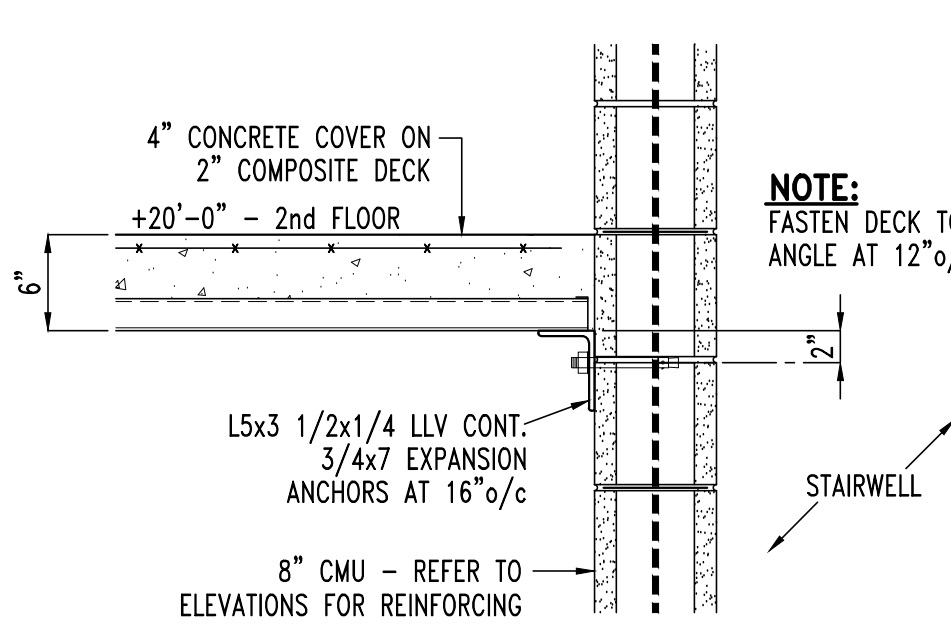
4 COMPOSITE BEAM STUD PLACEMENT REQUIREMENTS
SCALE: NONE



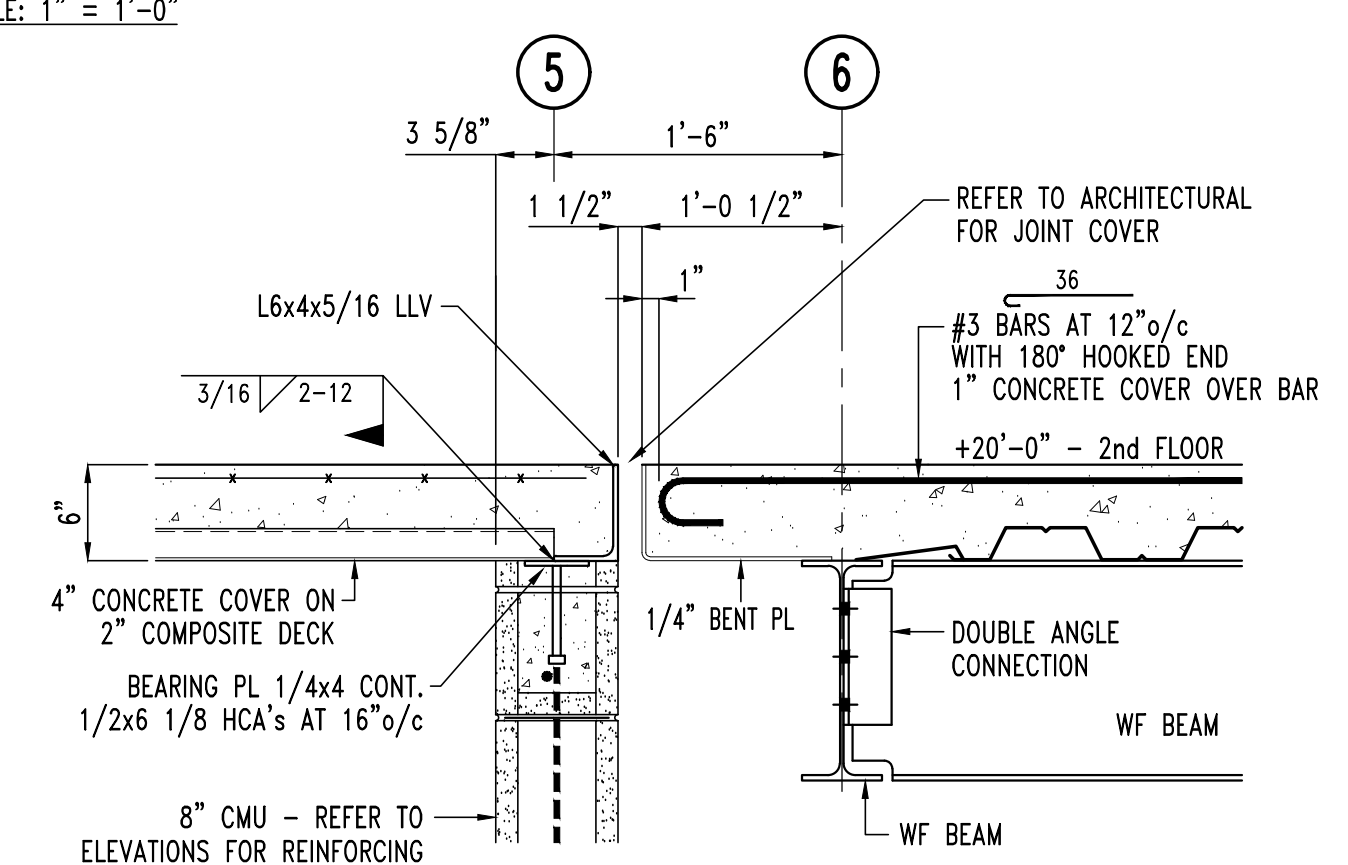
5 SLAB EDGE DETAILS
SCALE: 1" = 1'-0"



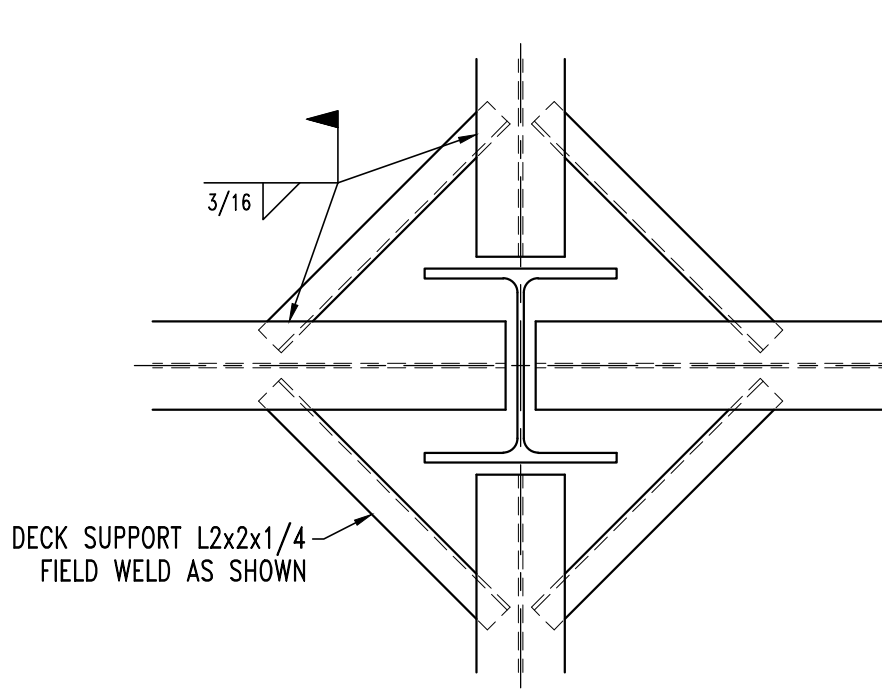
6 FLOOR FRAMING DETAIL
SCALE: 1" = 1'-0"



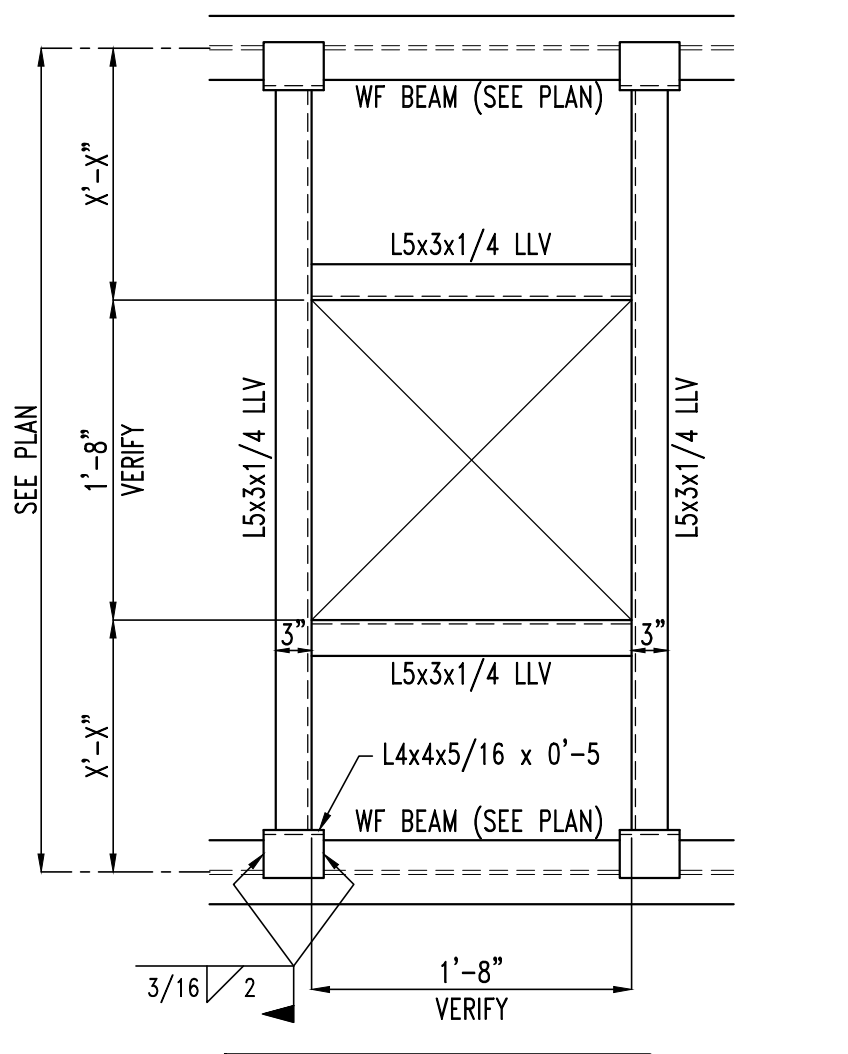
7 FLOOR FRAMING DETAIL
SCALE: 1" = 1'-0"



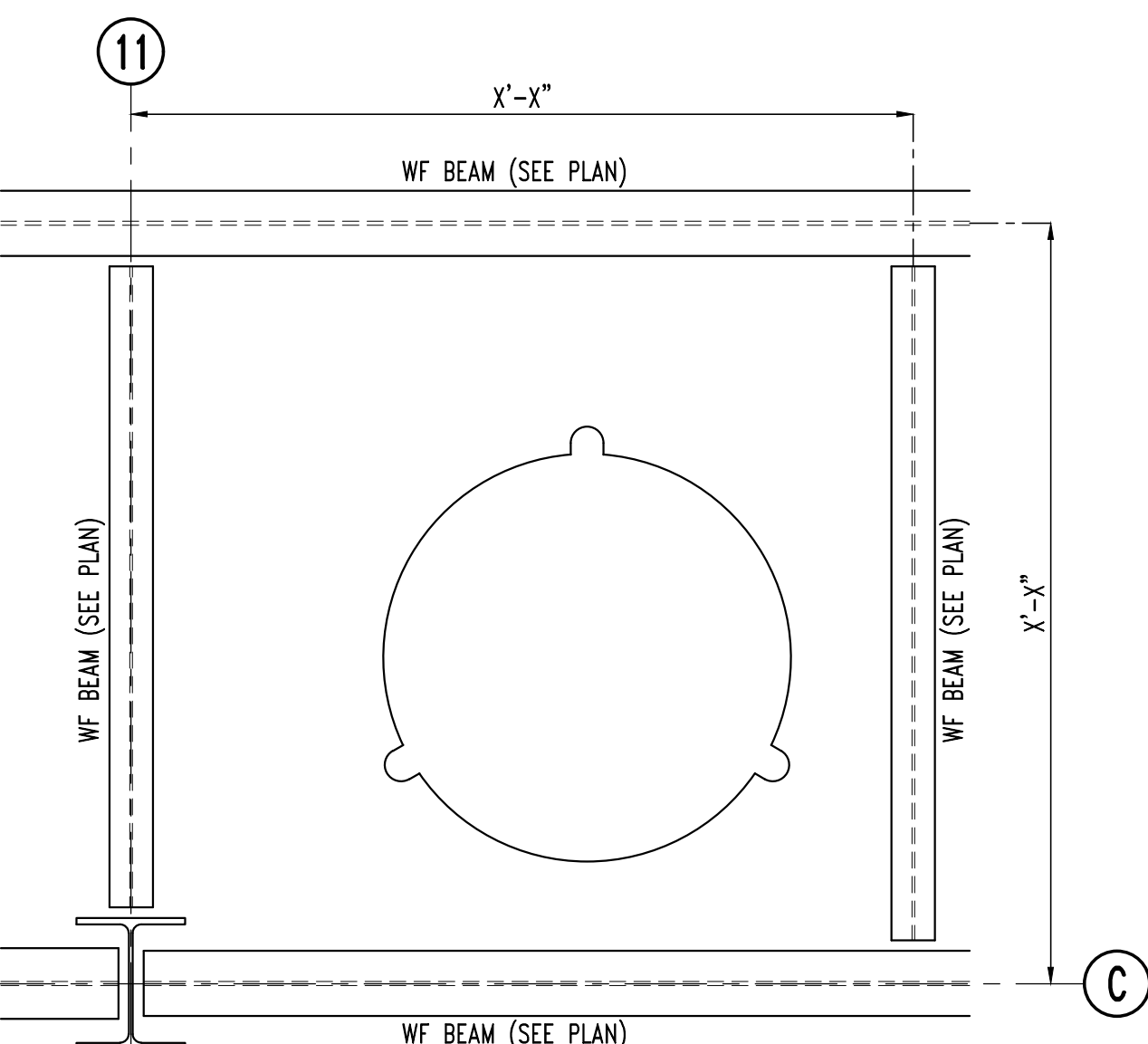
8 FLOOR FRAMING DETAIL
SCALE: 1" = 1'-0"



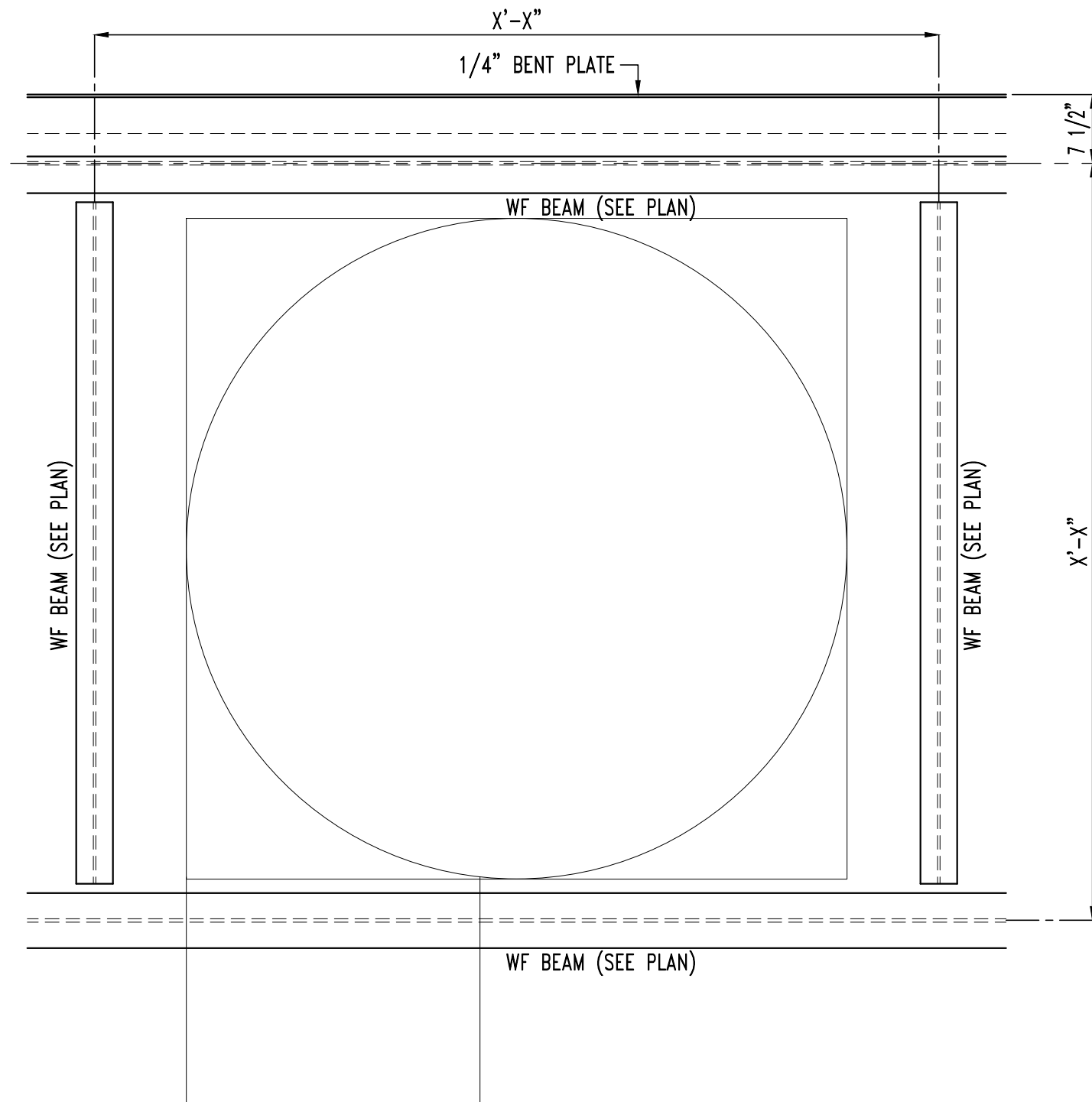
3 DECK SUPPORT DETAIL AT COLUMNS
SCALE: 1" = 1'-0"



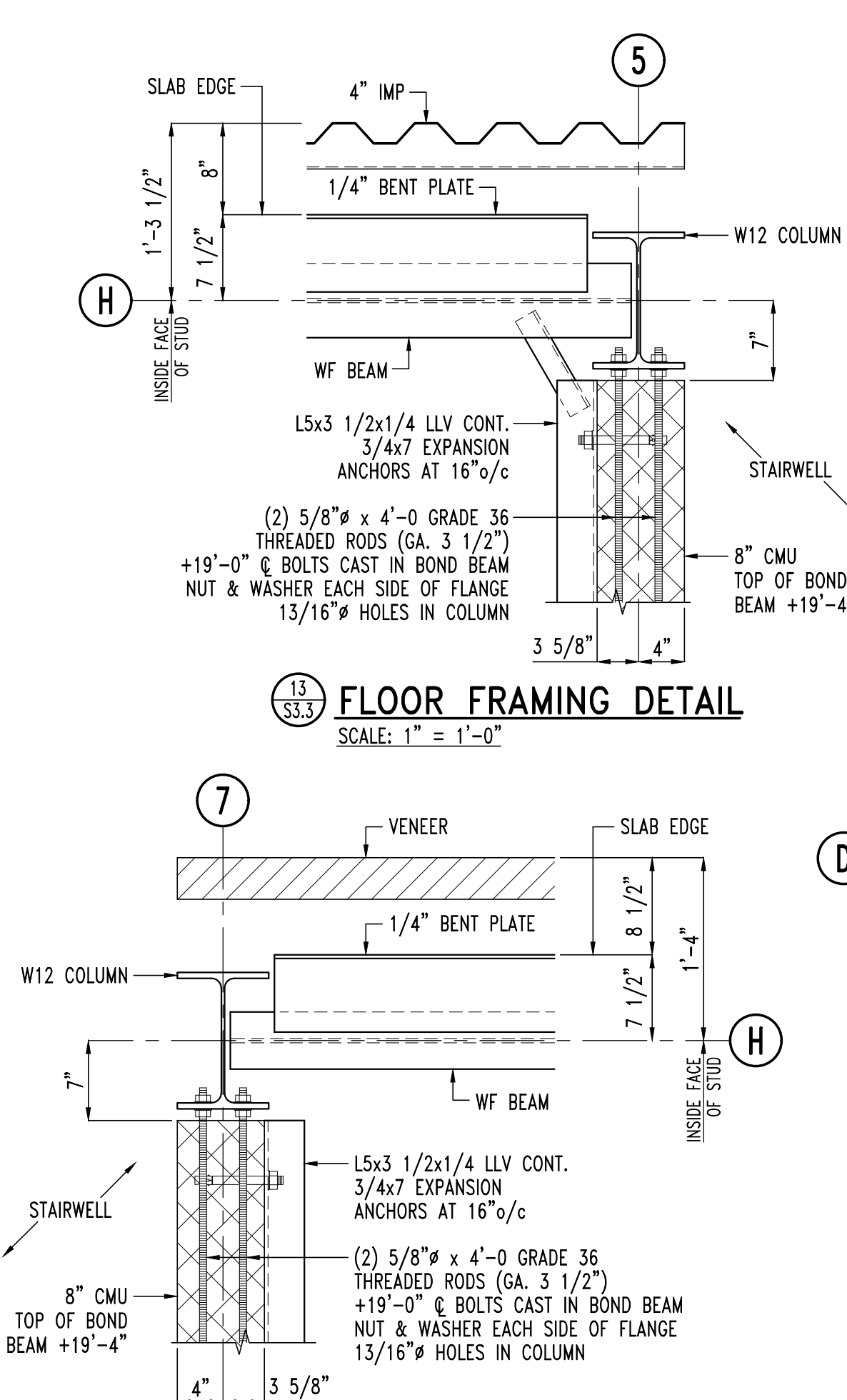
10 FLOOR DRAIN FRAME DETAIL
SCALE: NONE



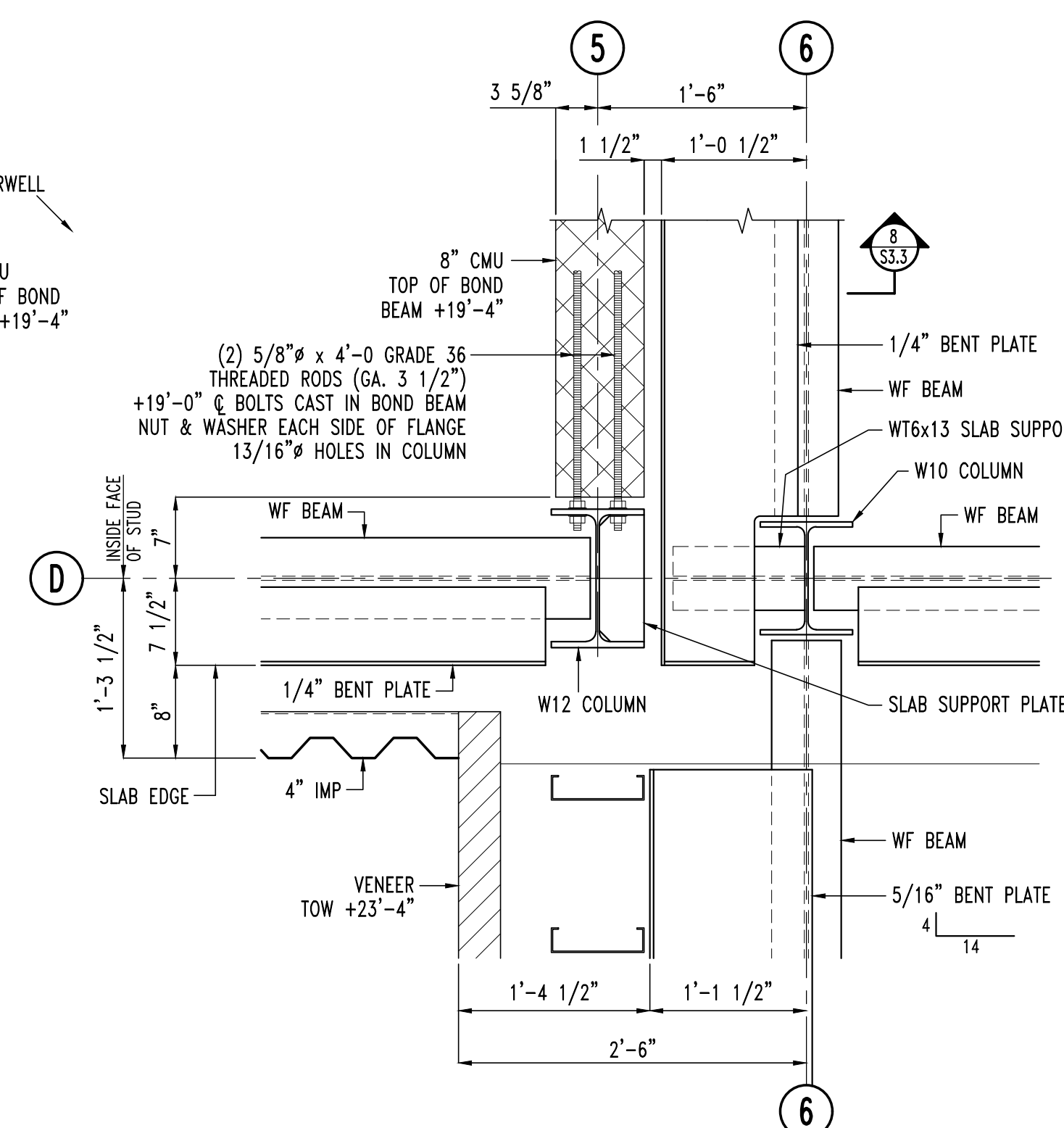
11 FLOOR FRAMING DETAIL AT FIRE POLE OPENING
SCALE: 3/4" = 1'-0"



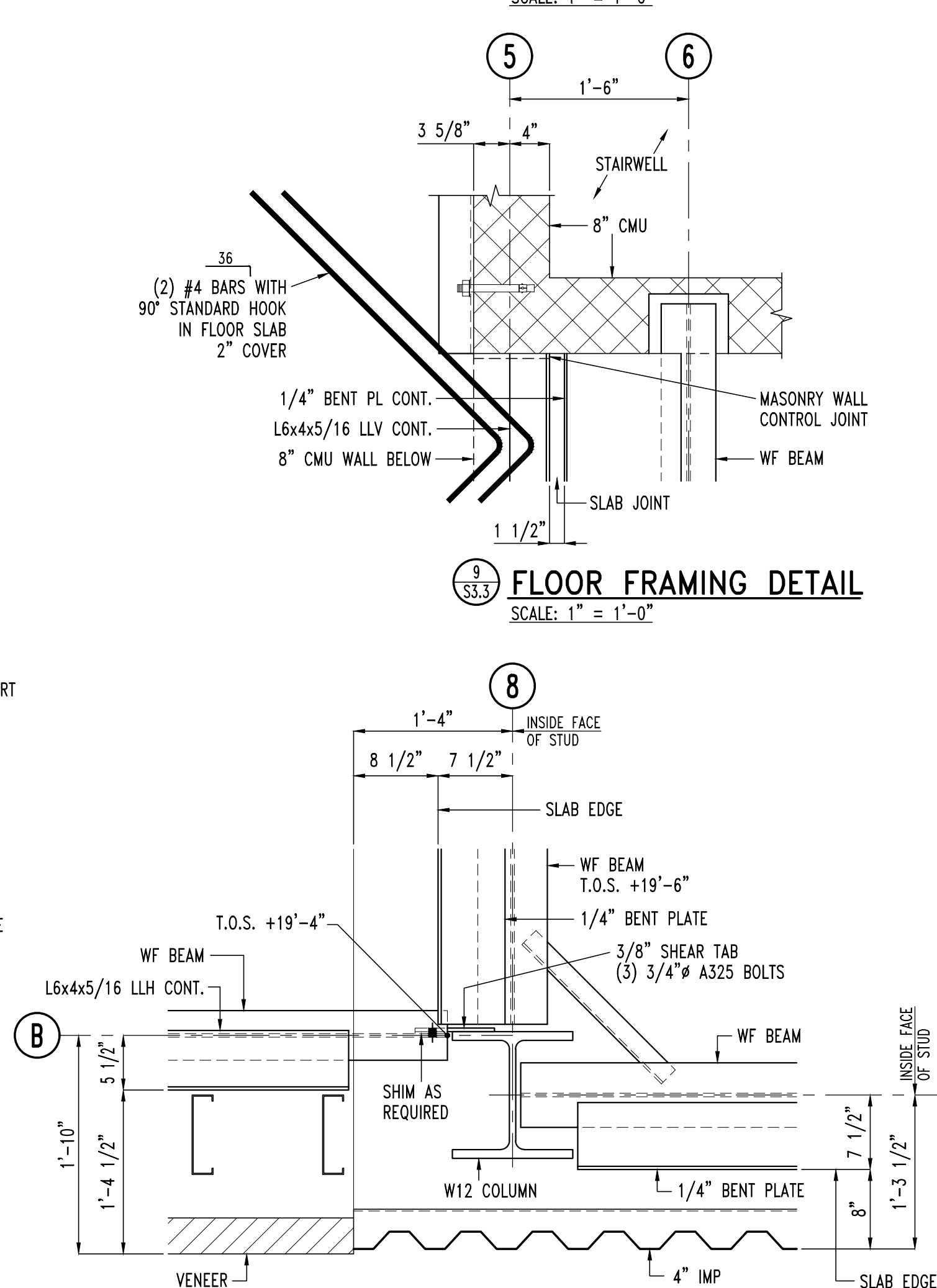
12 FLOOR FRAMING DETAIL AT SLIDE OPENING
SCALE: 3/4" = 1'-0"



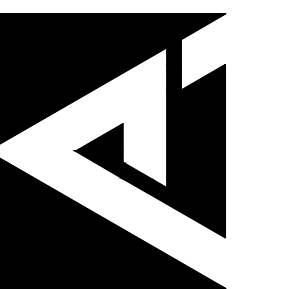
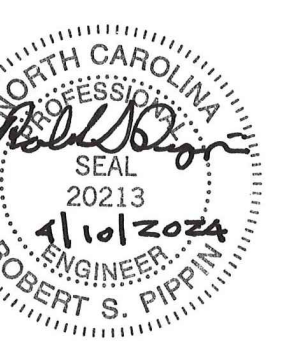
13 FLOOR FRAMING DETAIL
SCALE: 1" = 1'-0"

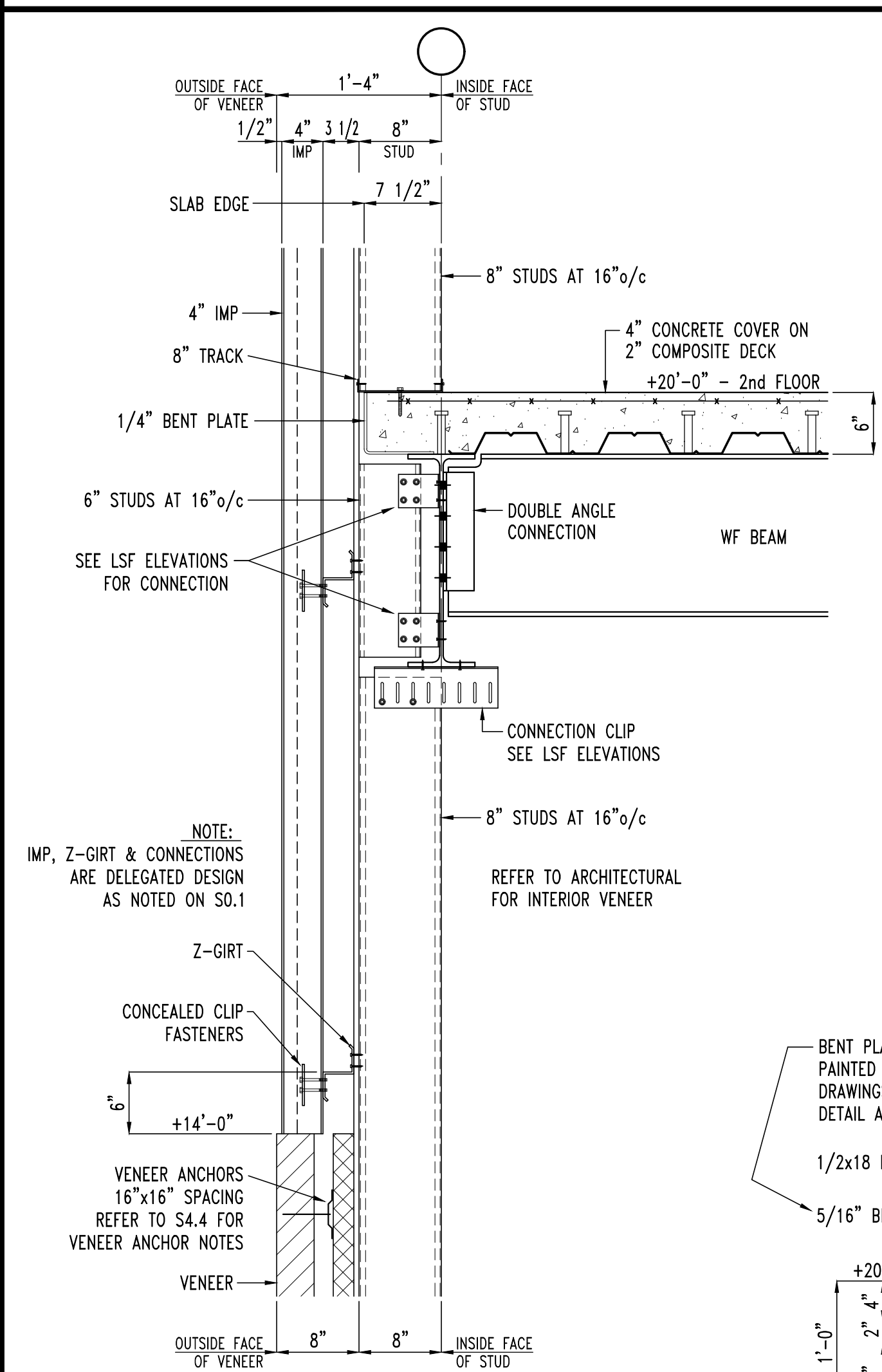


15 FLOOR FRAMING DETAIL
SCALE: 1" = 1'-0"

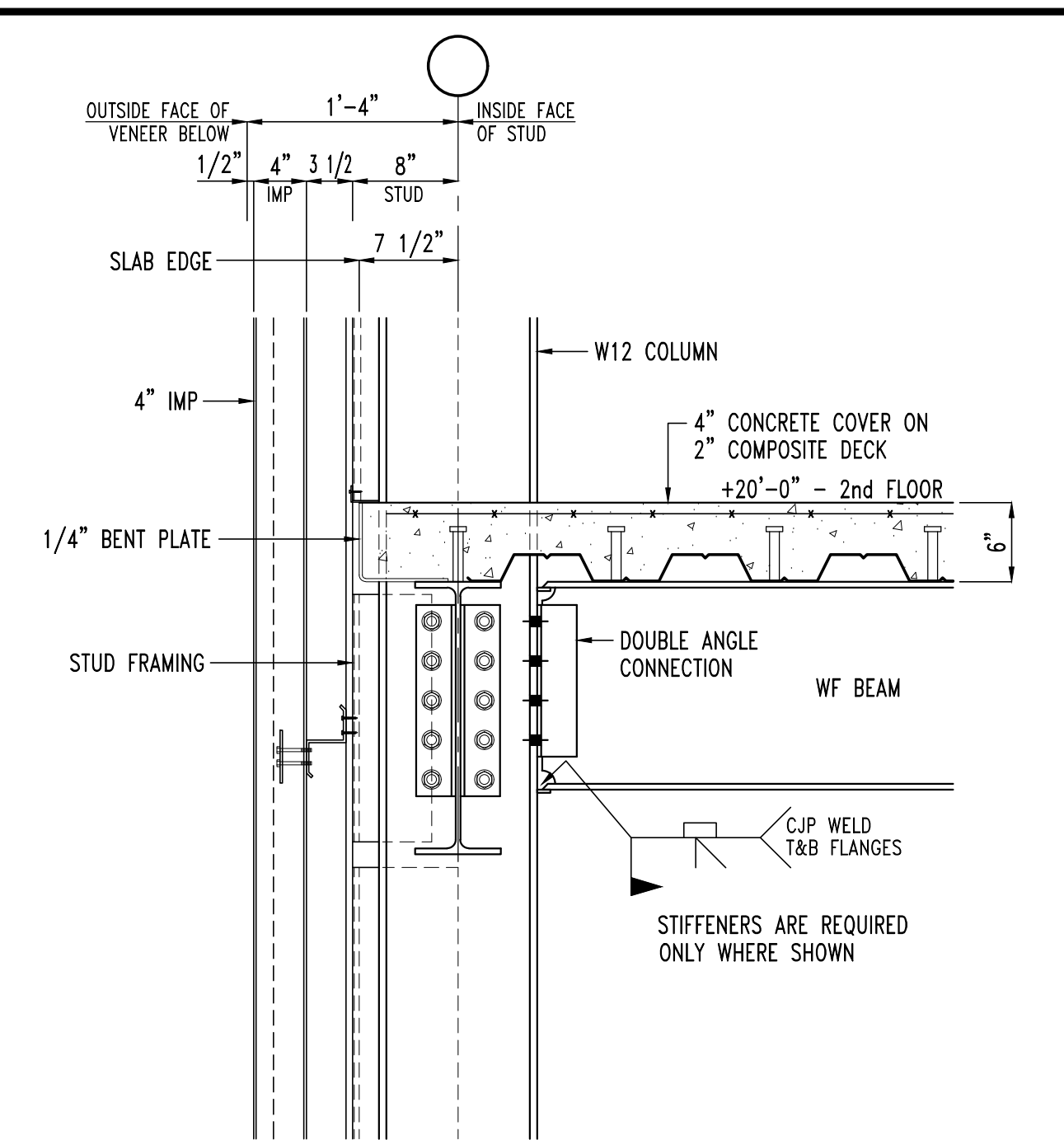


16 FLOOR FRAMING DETAIL
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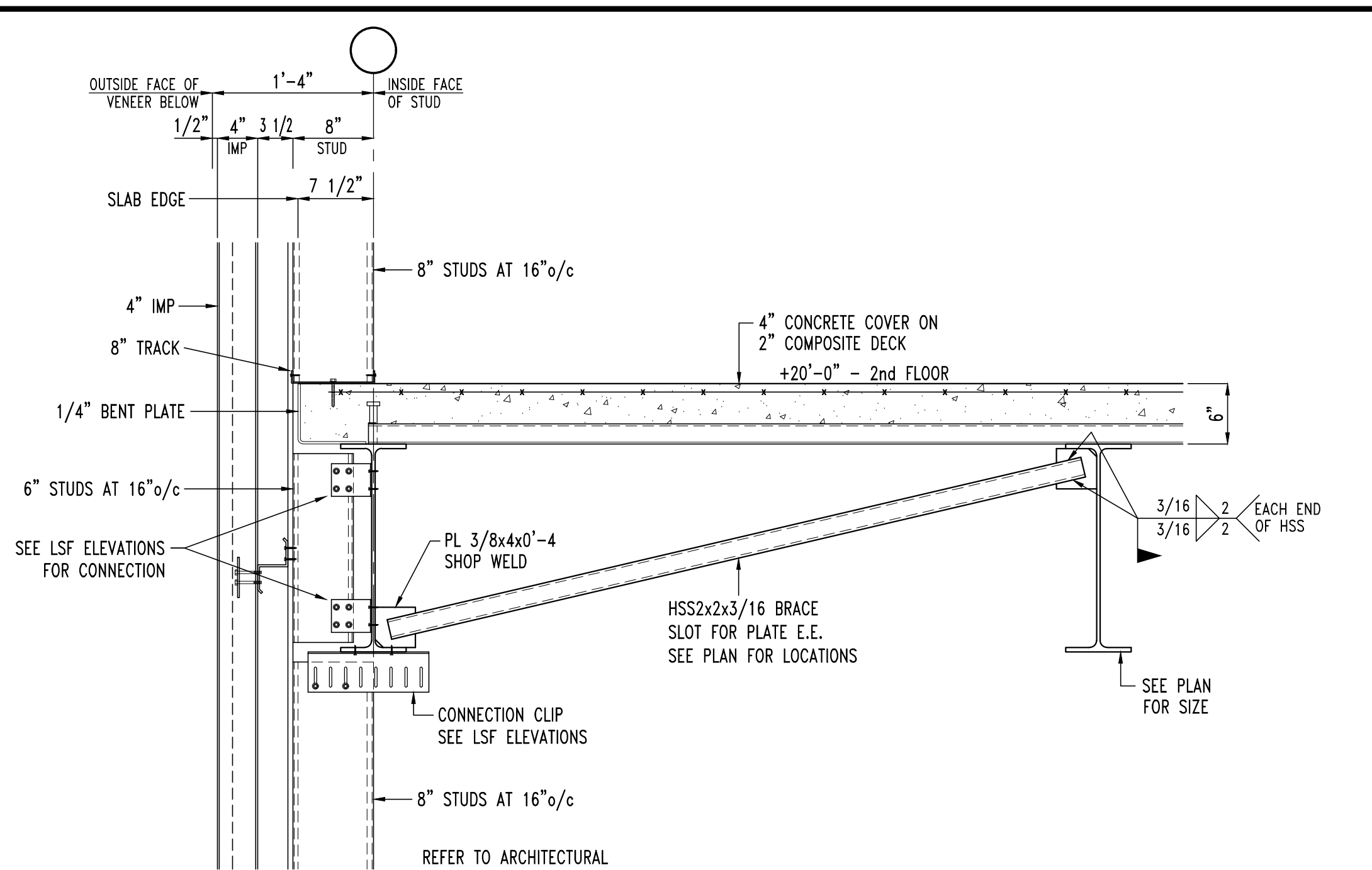




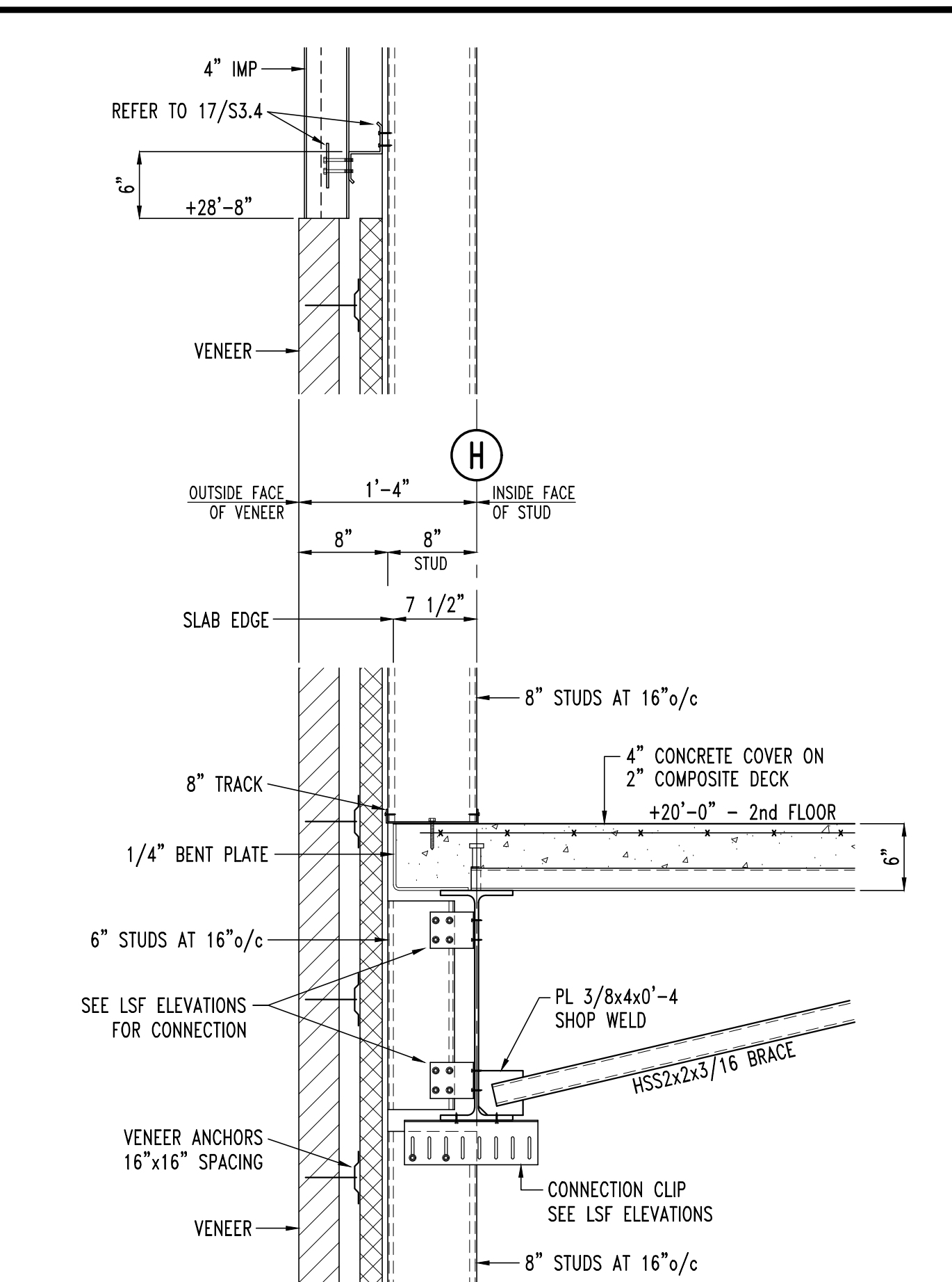
17 FLOOR FRAMING DETAIL
SCALE 1" = 1'-0"



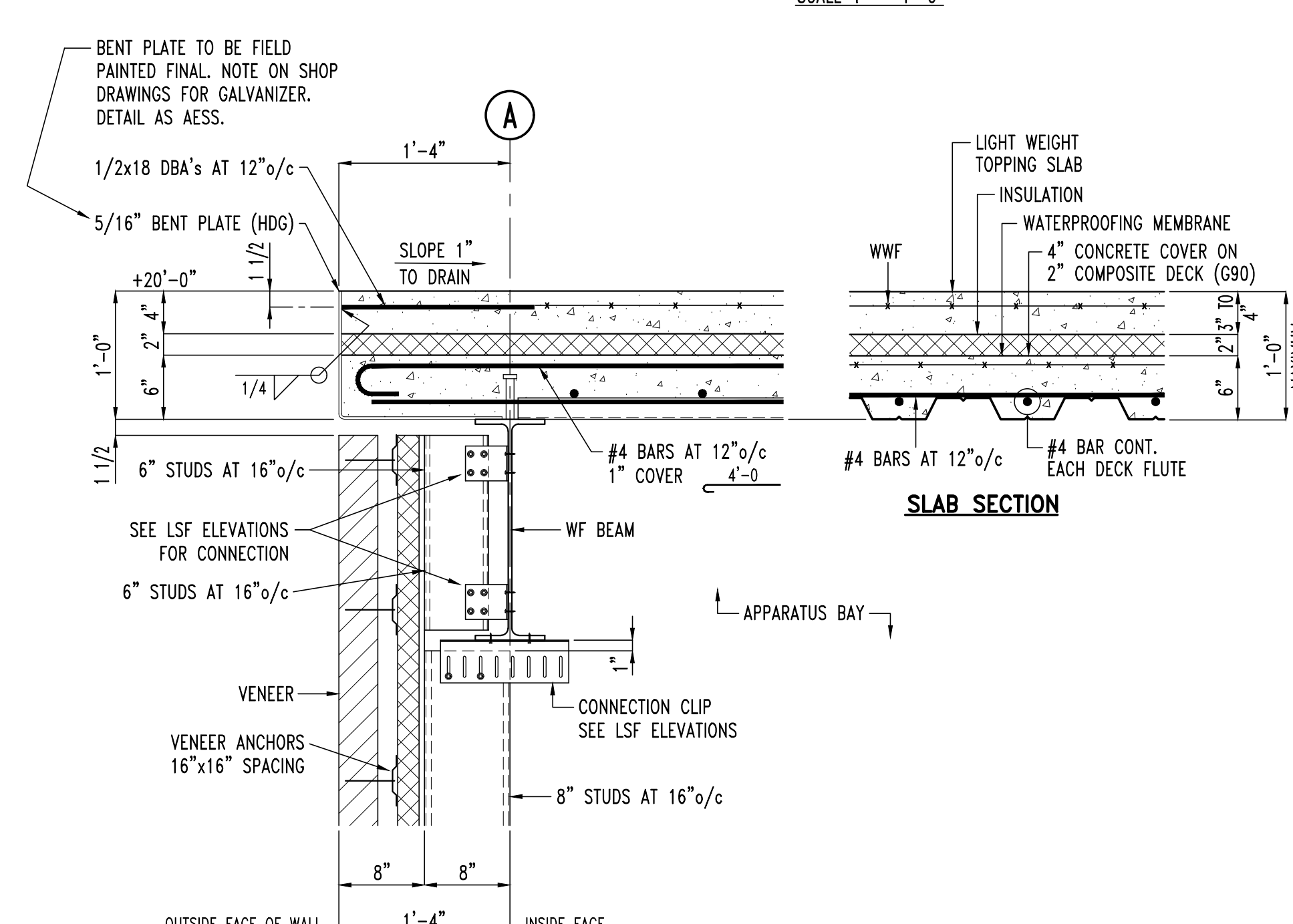
18 FLOOR FRAMING DETAIL
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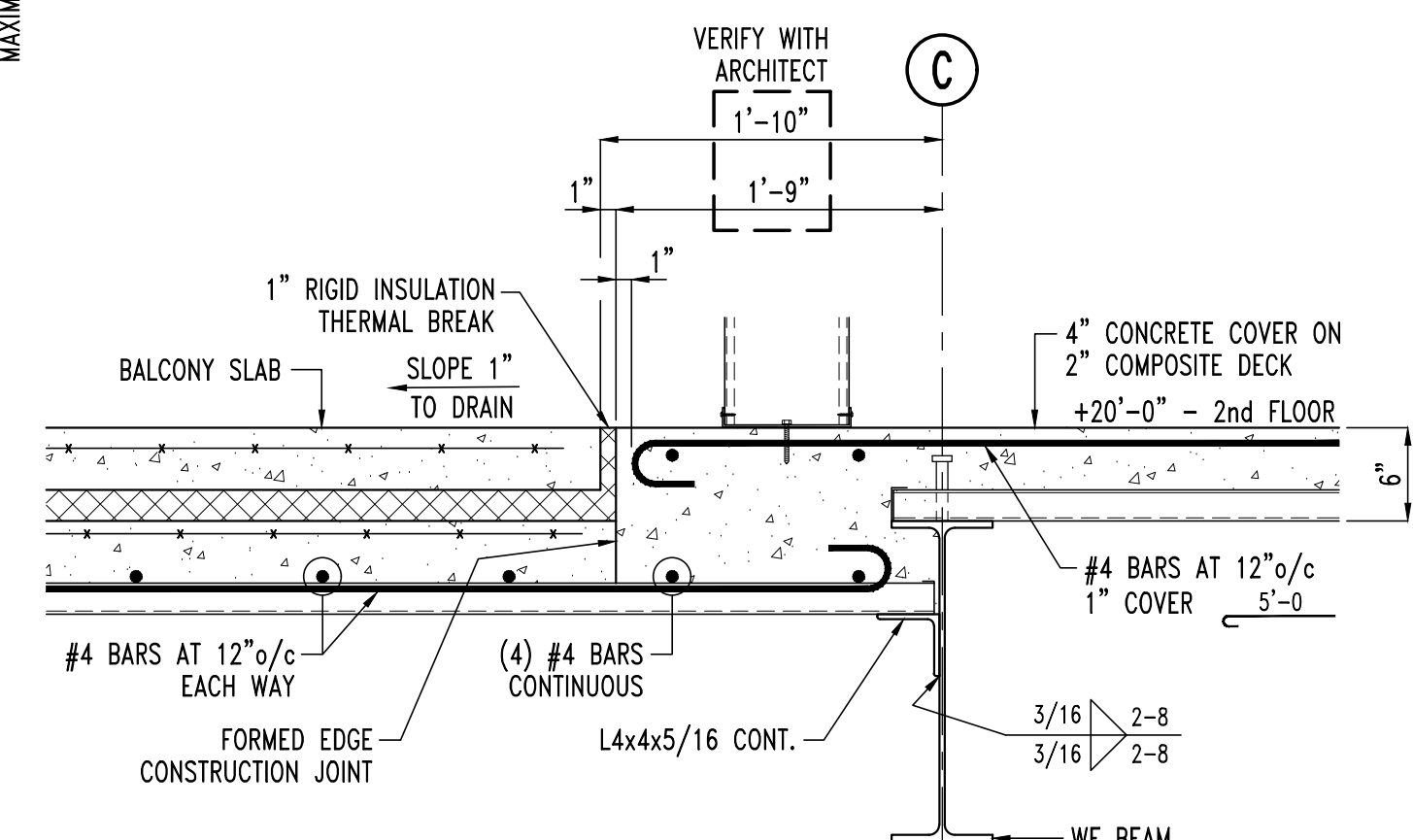
19 FLOOR FRAMING DETAIL
SCALE 1" = 1'-0"



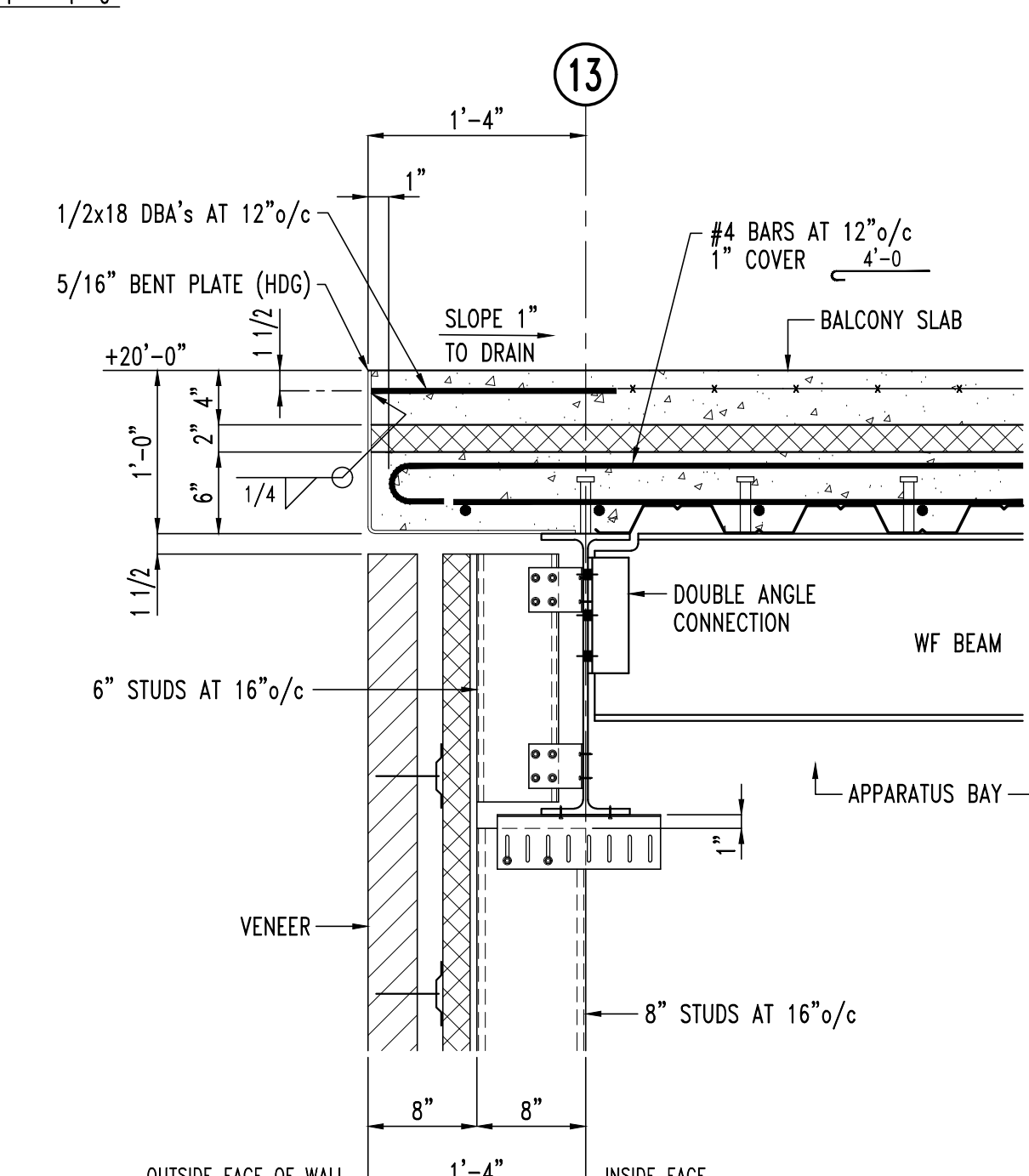
20 FLOOR FRAMING DETAIL
SCALE 1" = 1'-0"



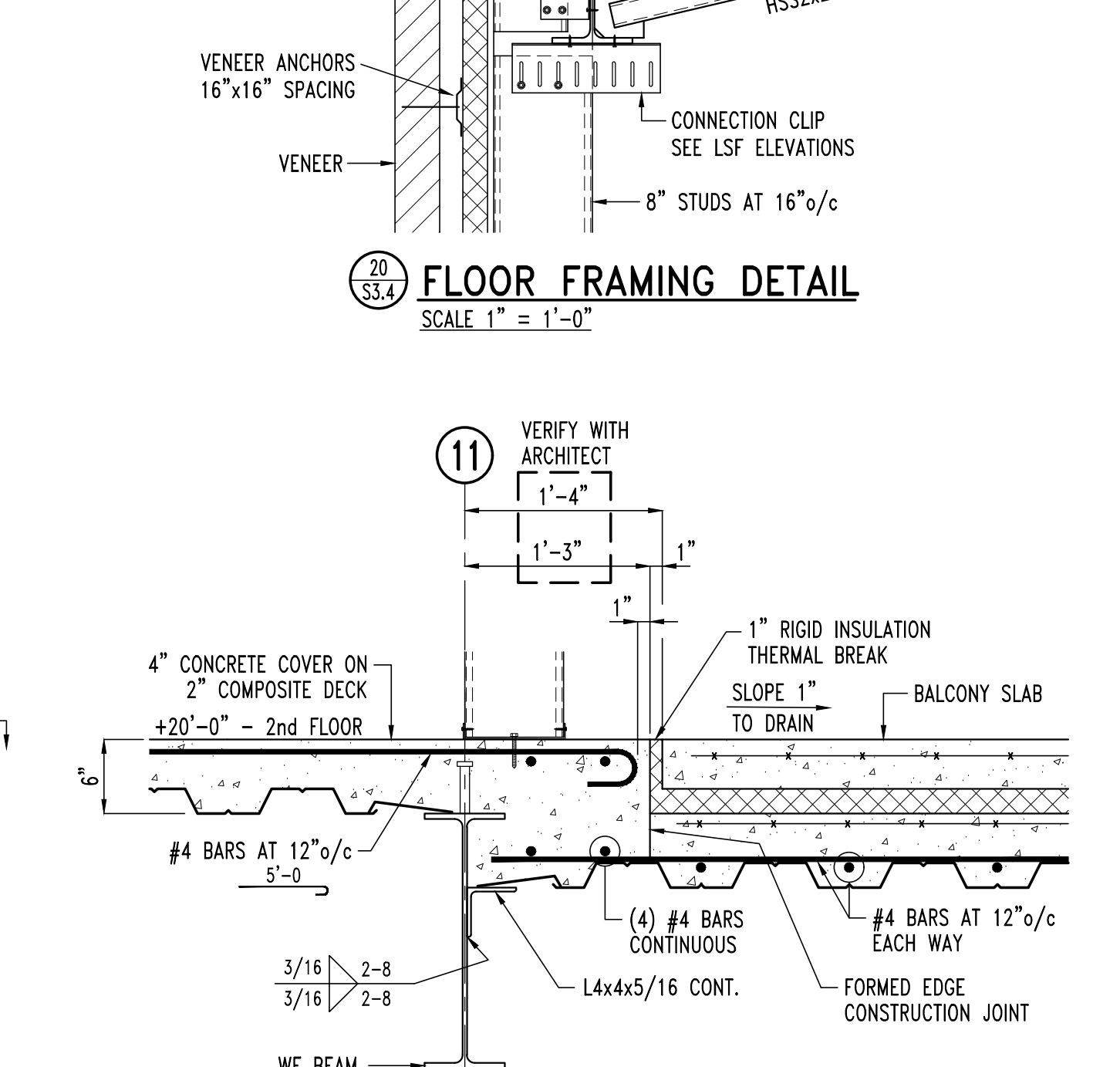
SLAB SECTION



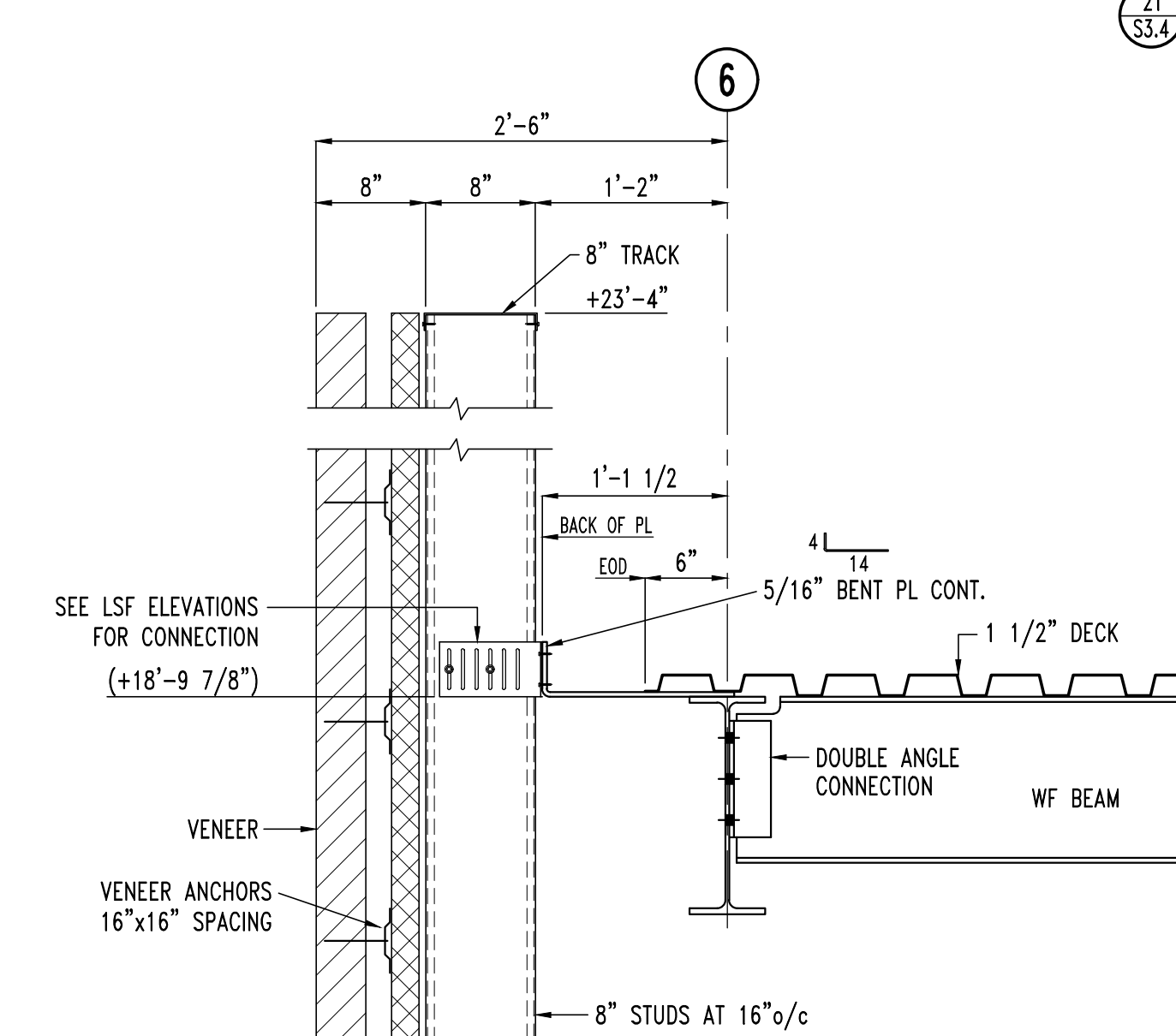
22 FLOOR FRAMING DETAIL AT BALCONY
SCALE 1" = 1'-0"



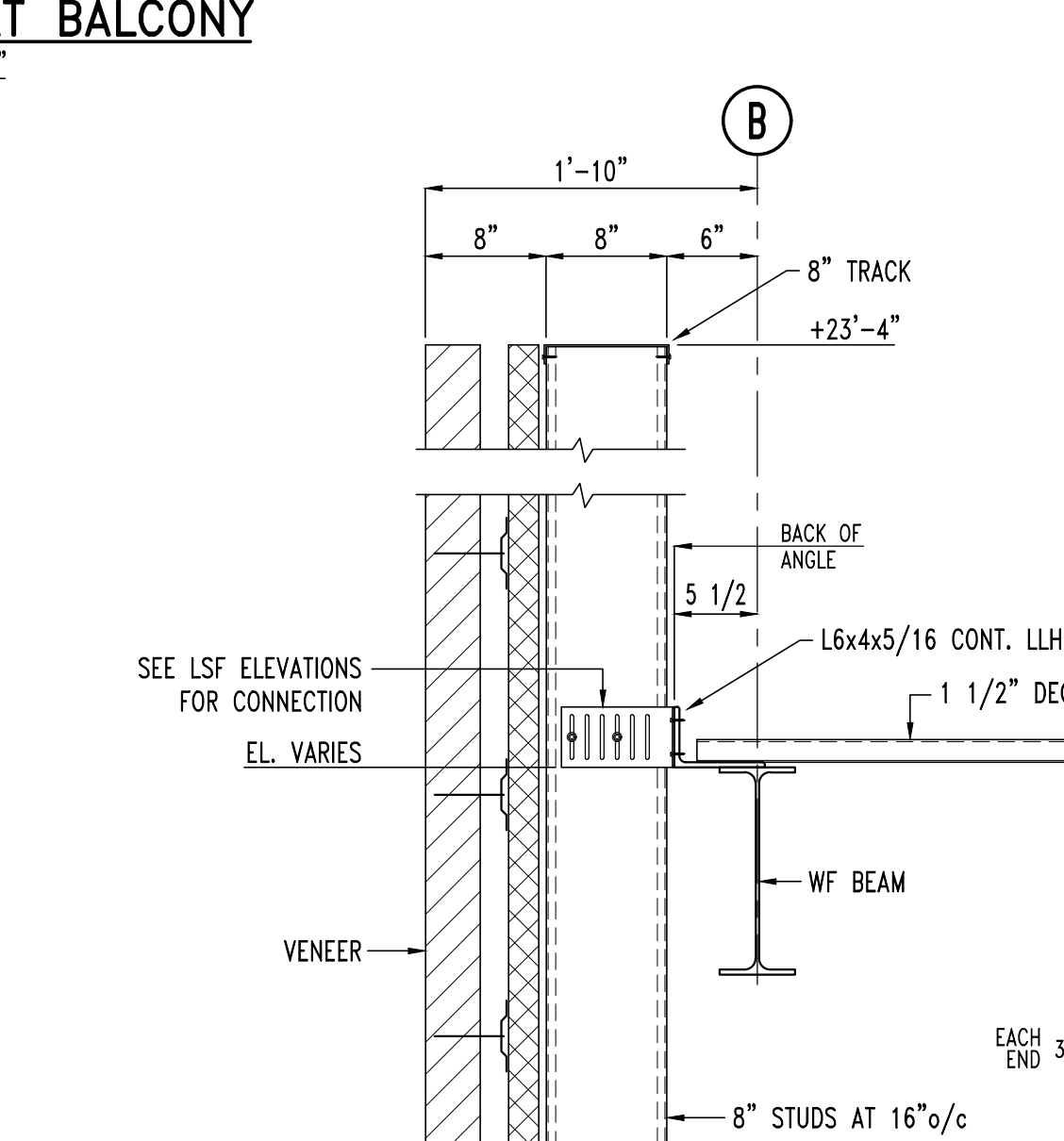
23 FLOOR FRAMING DETAIL AT BALCONY
SCALE 1" = 1'-0"



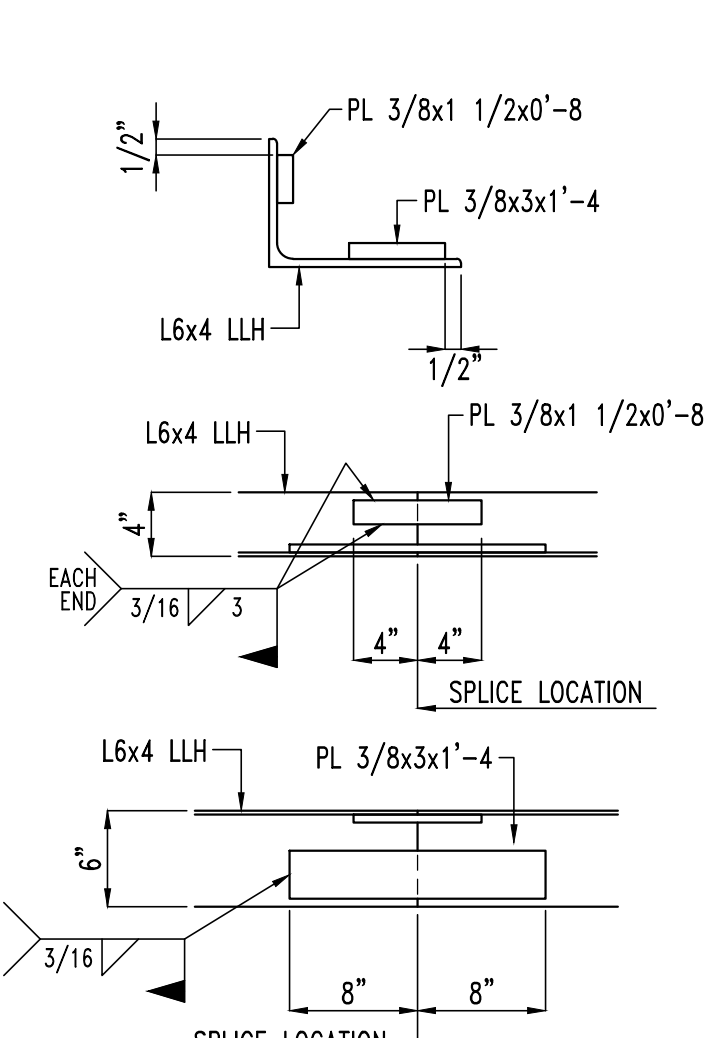
24 FLOOR FRAMING DETAIL AT BALCONY
SCALE 1" = 1'-0"



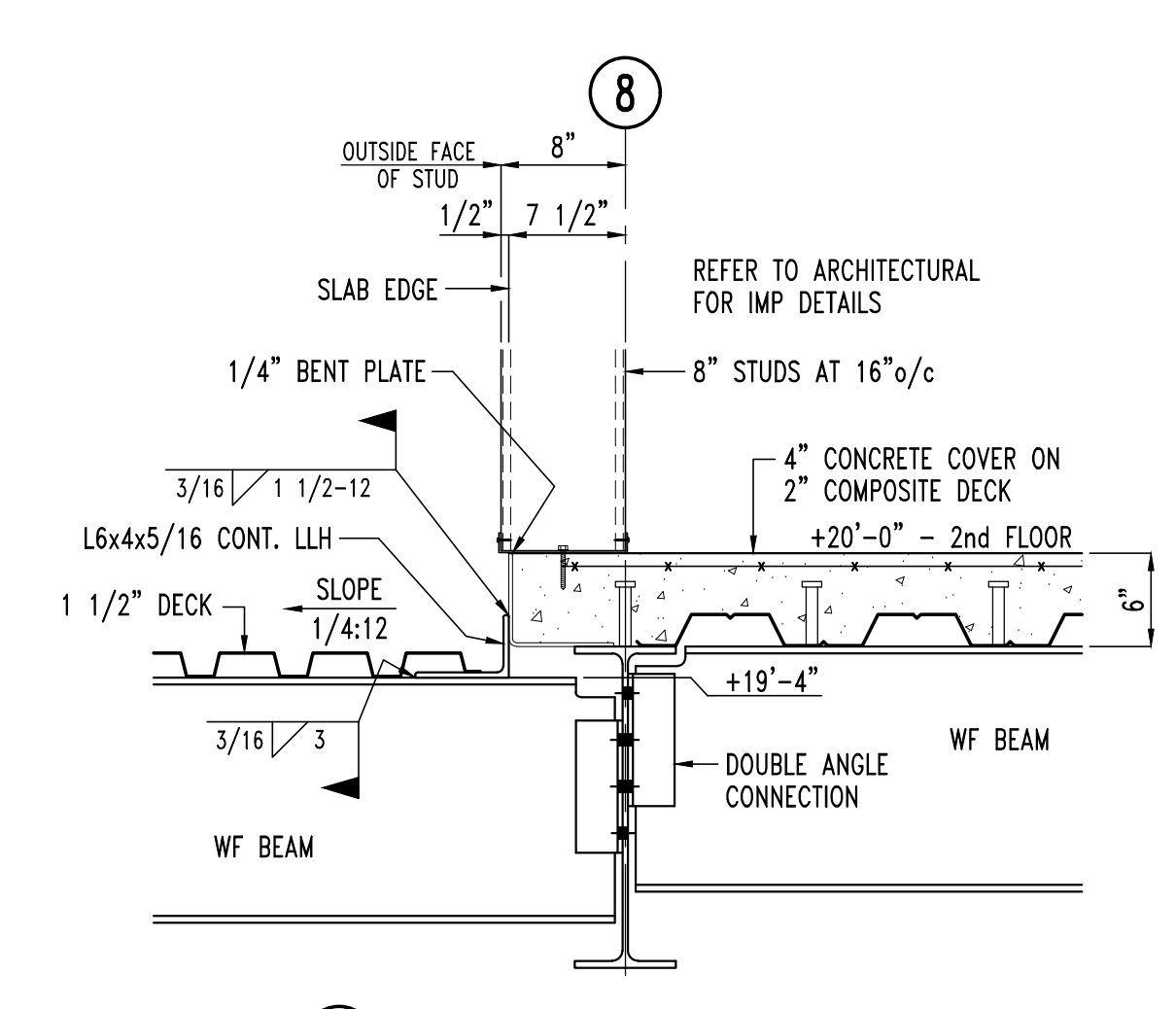
25 LOW ROOF FRAMING DETAIL
SCALE 1" = 1'-0"



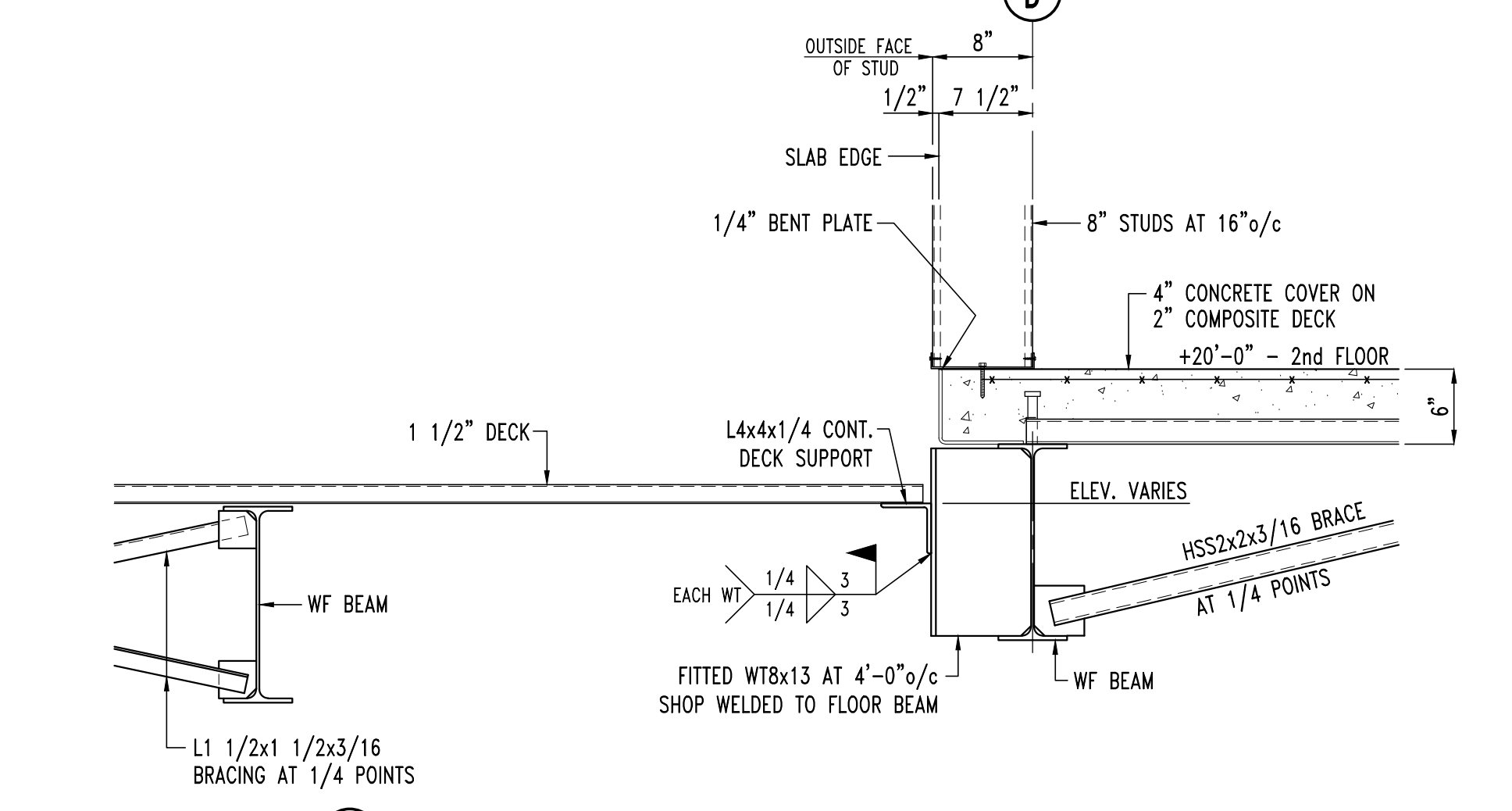
26 LOW ROOF FRAMING DETAIL
SCALE 1" = 1'-0"



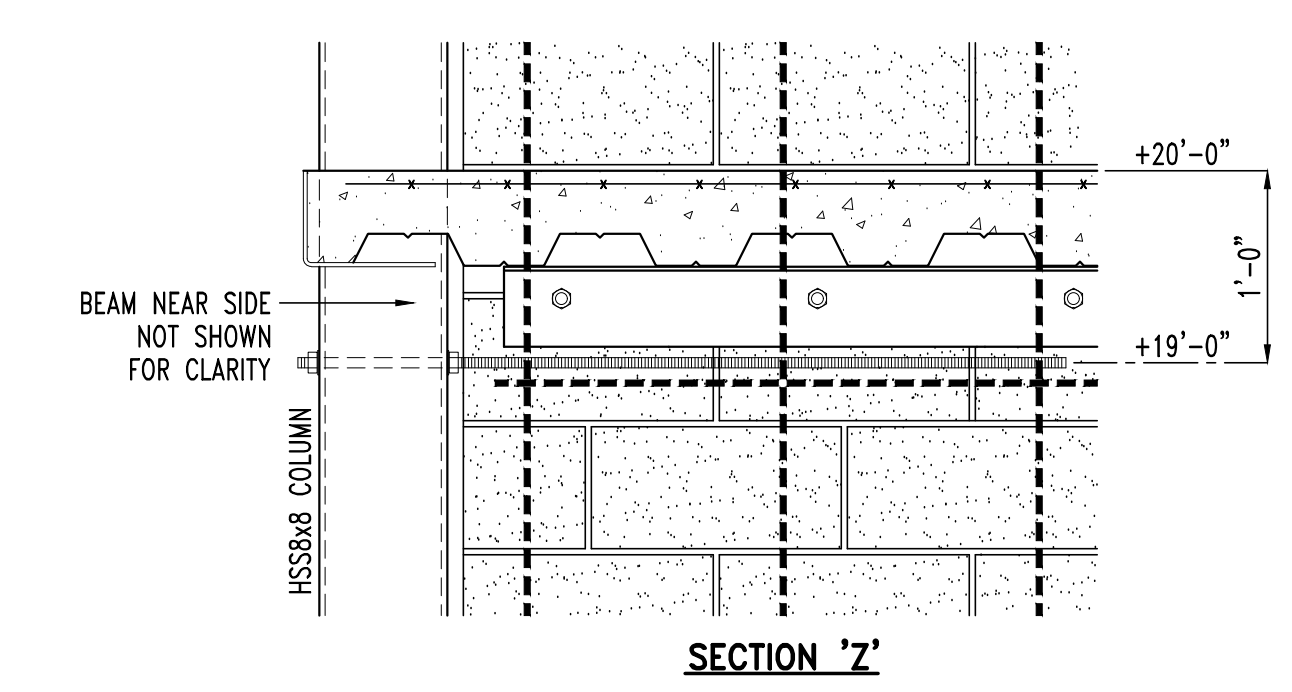
L6x4 SPLICE DETAIL AT ROOF
SIMILAR SPLICE FOR BENT PLATE AT LINE (E)



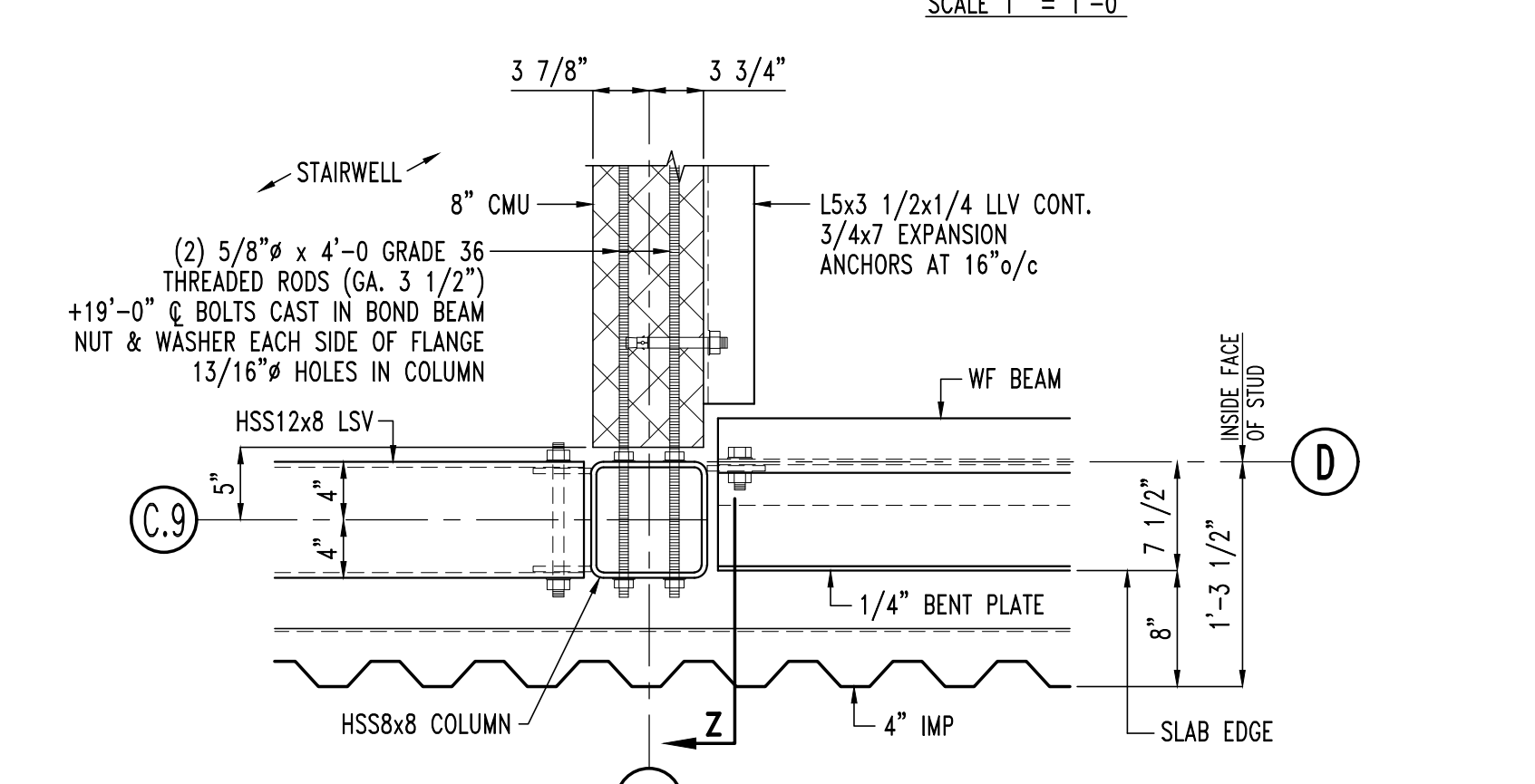
27 FLOOR/ROOF FRAMING DETAIL
SCALE 1" = 1'-0"



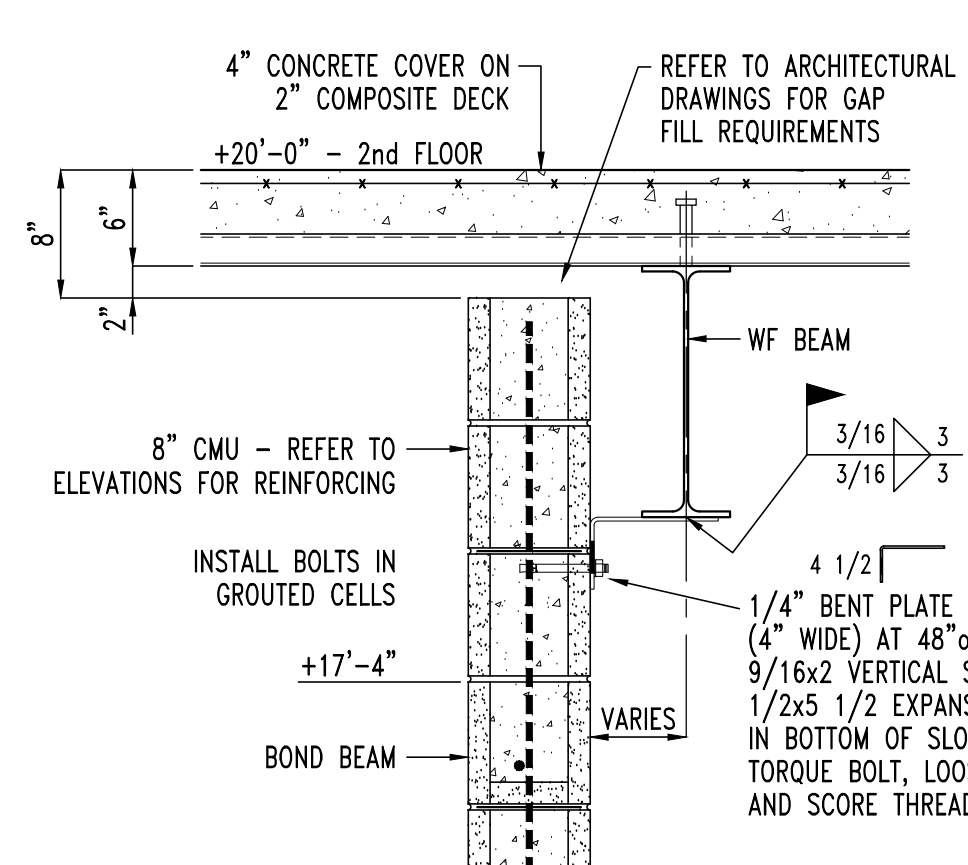
28 FLOOR/ROOF FRAMING DETAIL
SCALE 1" = 1'-0"



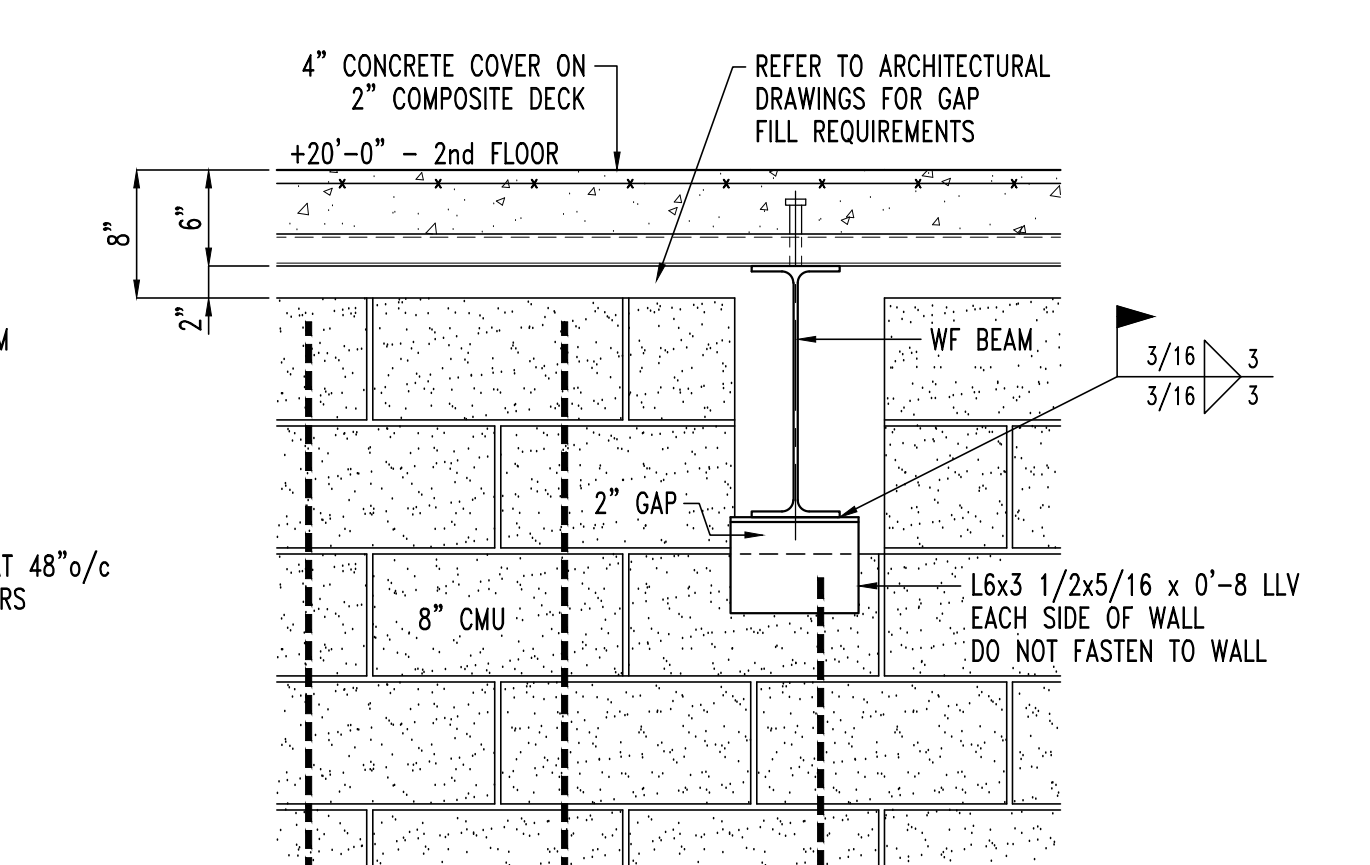
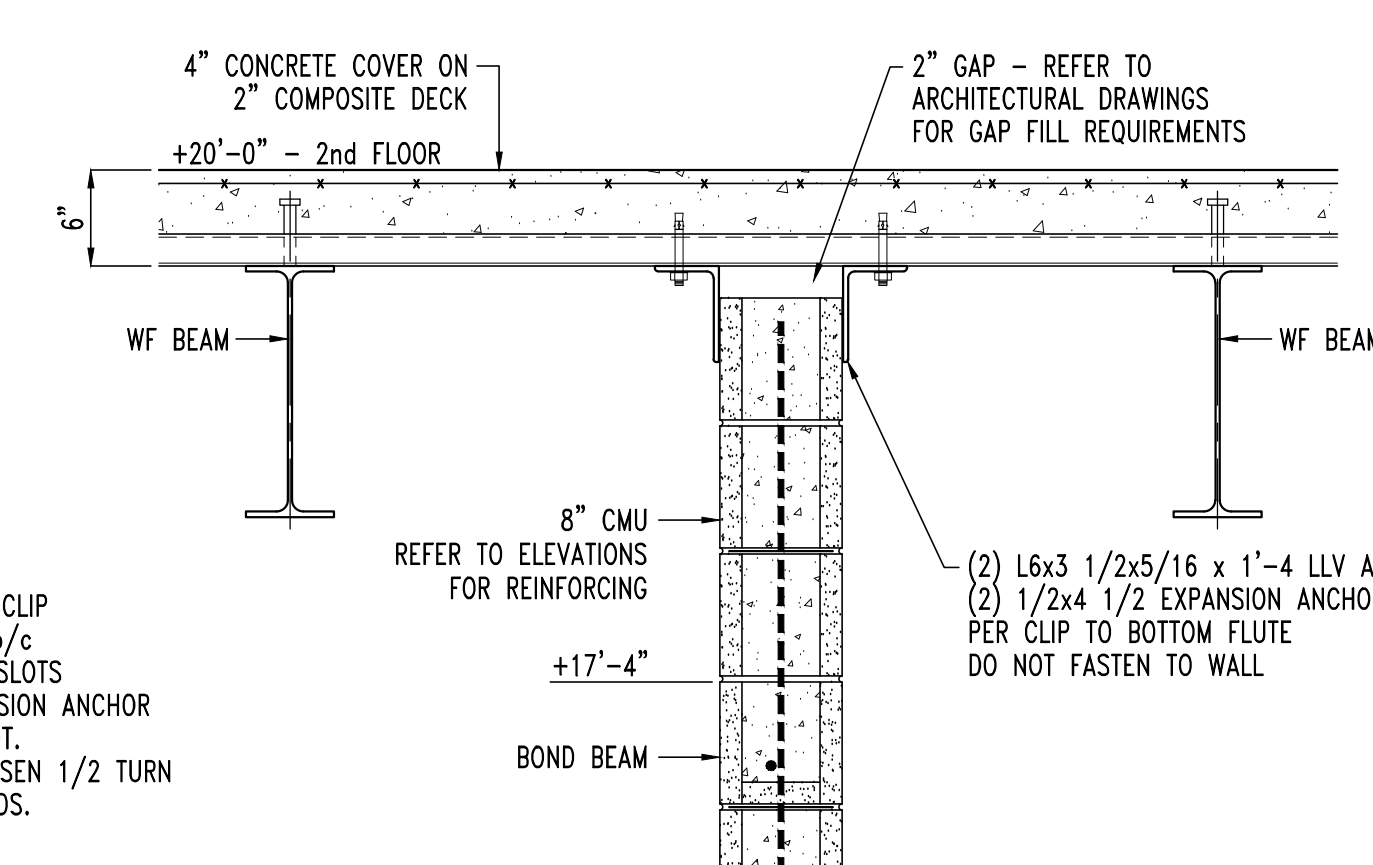
SECTION 'Z'



29 FLOOR FRAMING DETAIL
SCALE 1" = 1'-0"



30 FLOOR FRAMING DETAIL
SCALE 1" = 1'-0"



CONCORD FIRE STATION NO. 6
DAVID DISTRICT - NEW FACILITY
CONCORD, NC

FLOOR FRAMING DETAILS

ISSUE SCHEDULE

NO.	DATE	REFERENCE
1	4/10/24	CONSTRUCTION SET

P.I.E. PROJECT NO. 23-1321

S3.4

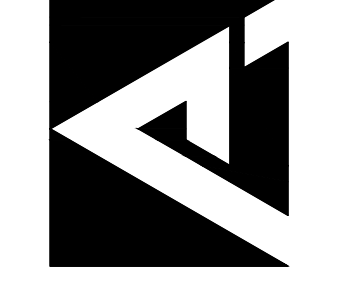
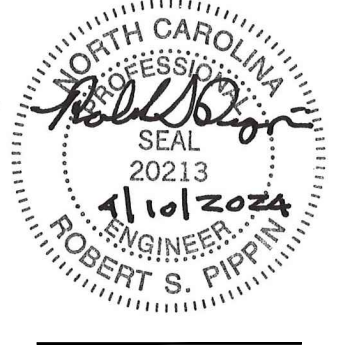
30x42 SHEET

PIPPIN ENGINEERING, PLLC
STRUCTURAL ENGINEERING
700 EAST BAY STREET, SUITE 302
CHARLESTON, SOUTH CAROLINA 29403
PHONE: (803) 825-2240
FAX: (803) 825-2240
EMAIL: pippin@pe-engine.com

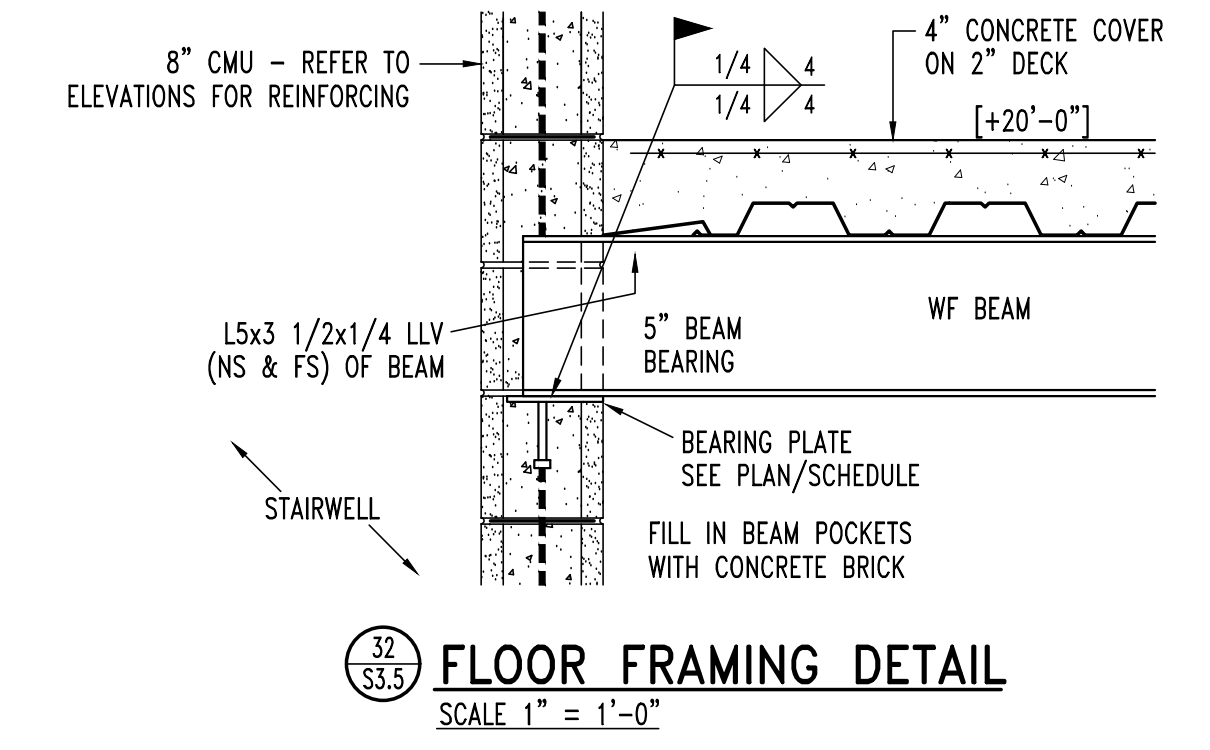
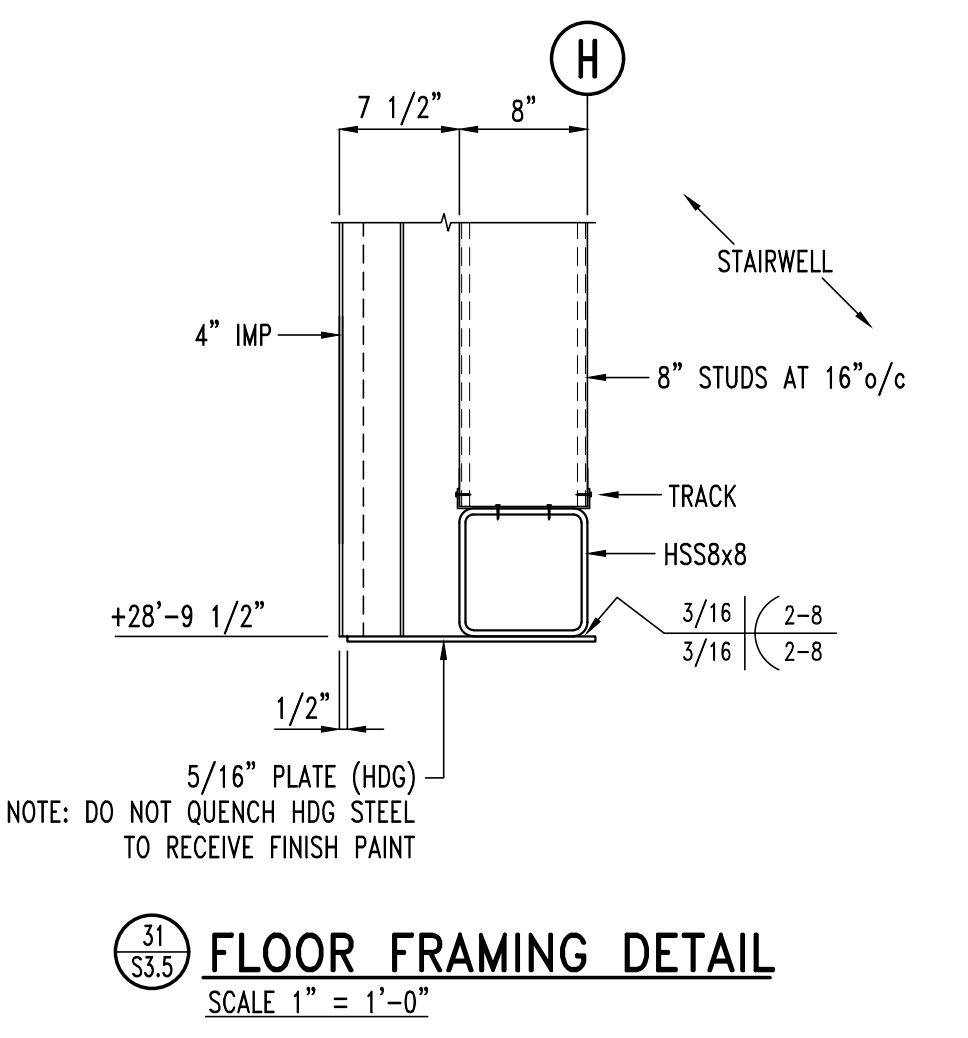
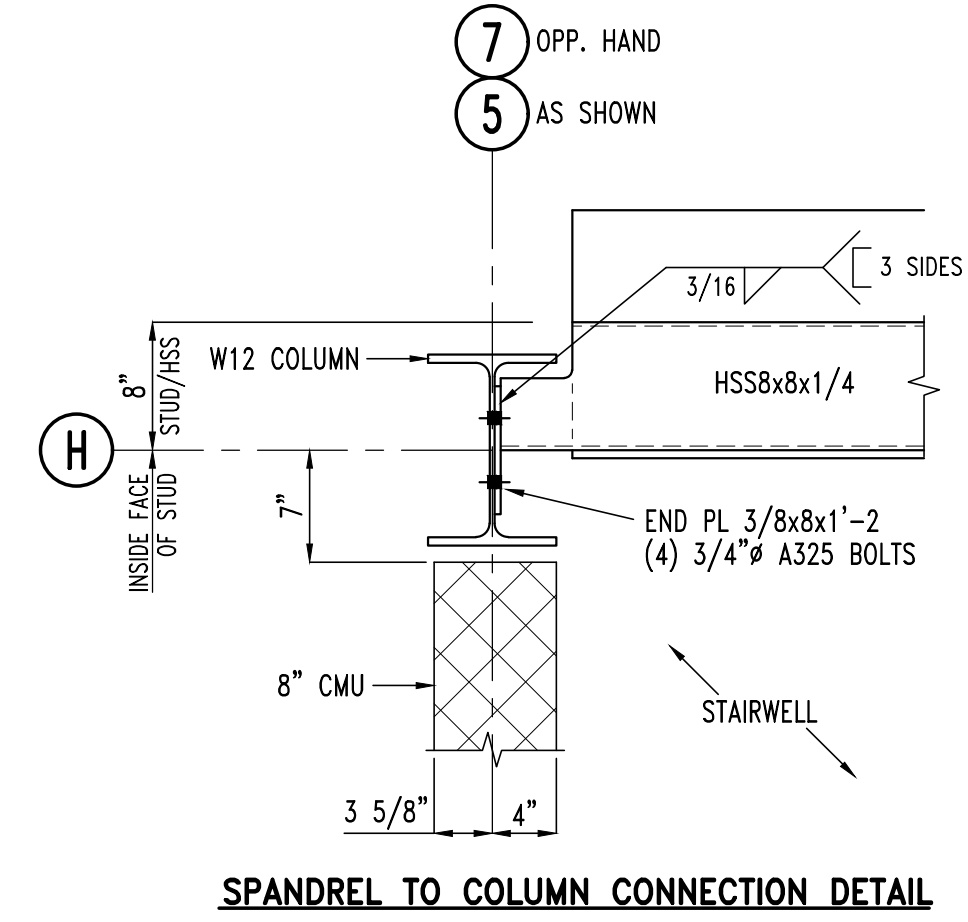
PINNACLE ARCHITECTURE
PROFESSIONAL ASSOCIATION
700 EAST BAY STREET, SUITE 302
CHARLESTON, SOUTH CAROLINA 29403
PHONE: (803) 825-2240
FAX: (803) 825-2240
EMAIL: pippin@pe-engine.com

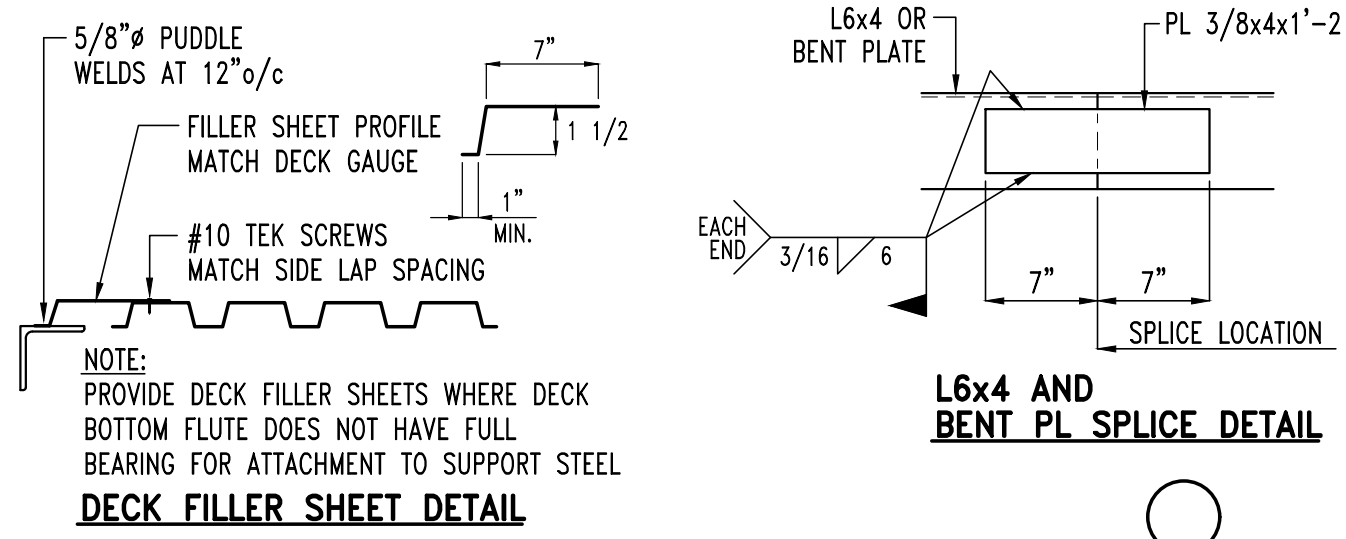
REGISTERED PROFESSIONAL ENGINEER
SOUTH CAROLINA
20213
1010224
PIPPIN ENGINEERING
TIMOTHY S. PIPPIN

D. R. REYNOLDS COMPANY, INC.
1500 GARDNER STREET, SUITE 300
STAR, NORTH CAROLINA 27386
(910) 428-1380

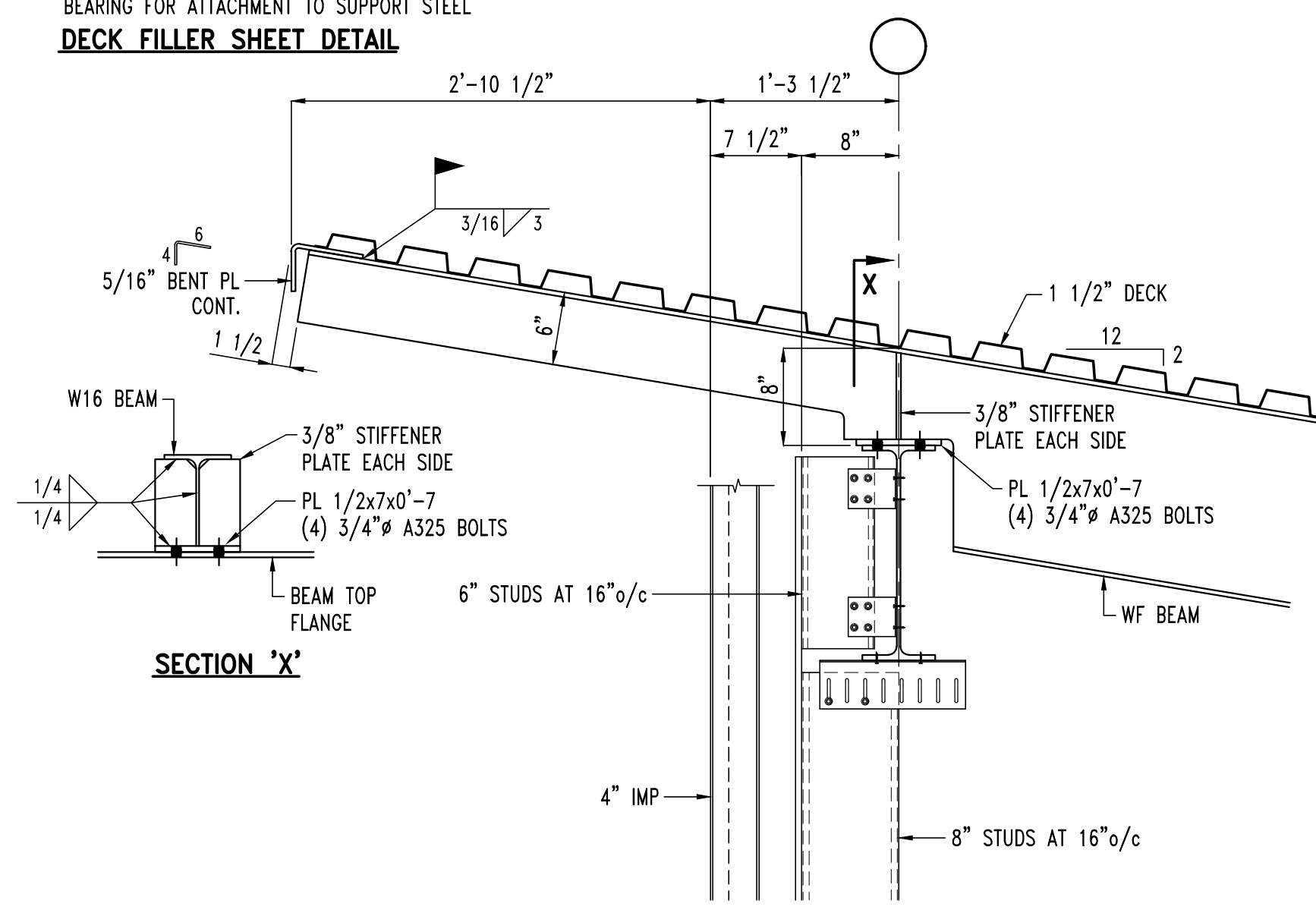


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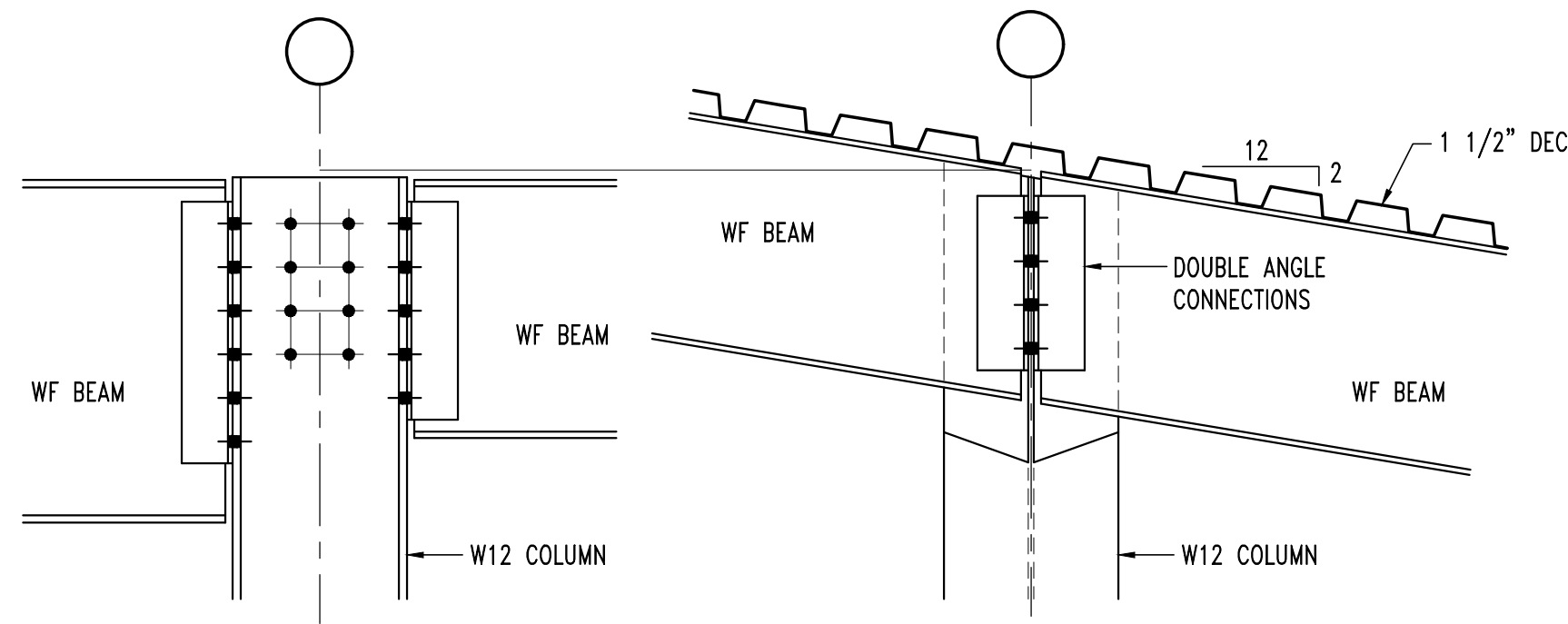


L6x4 AND BENT PL SPICE DETAIL
SCALE 1" = 1'-0"

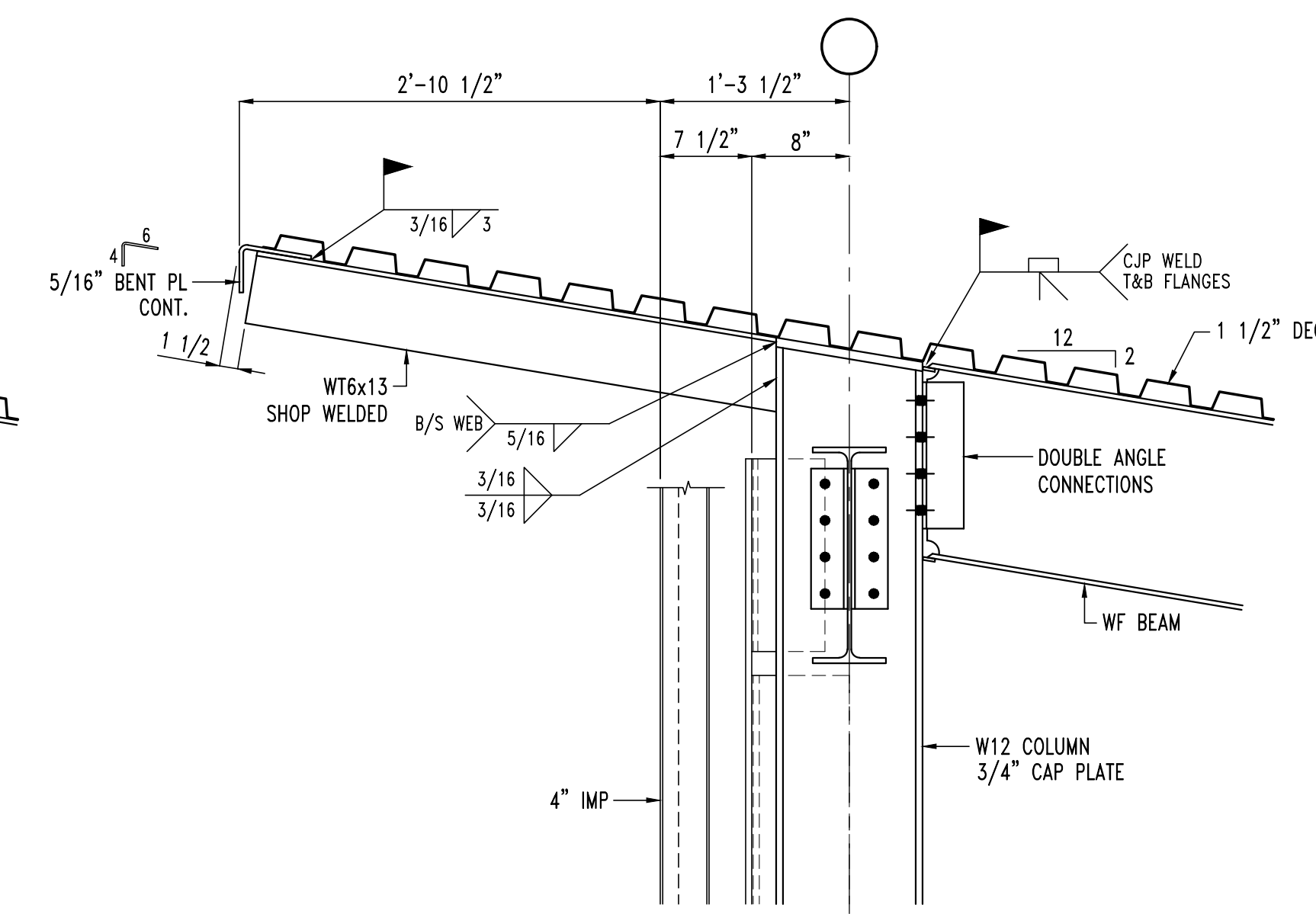


SECTION 'X'

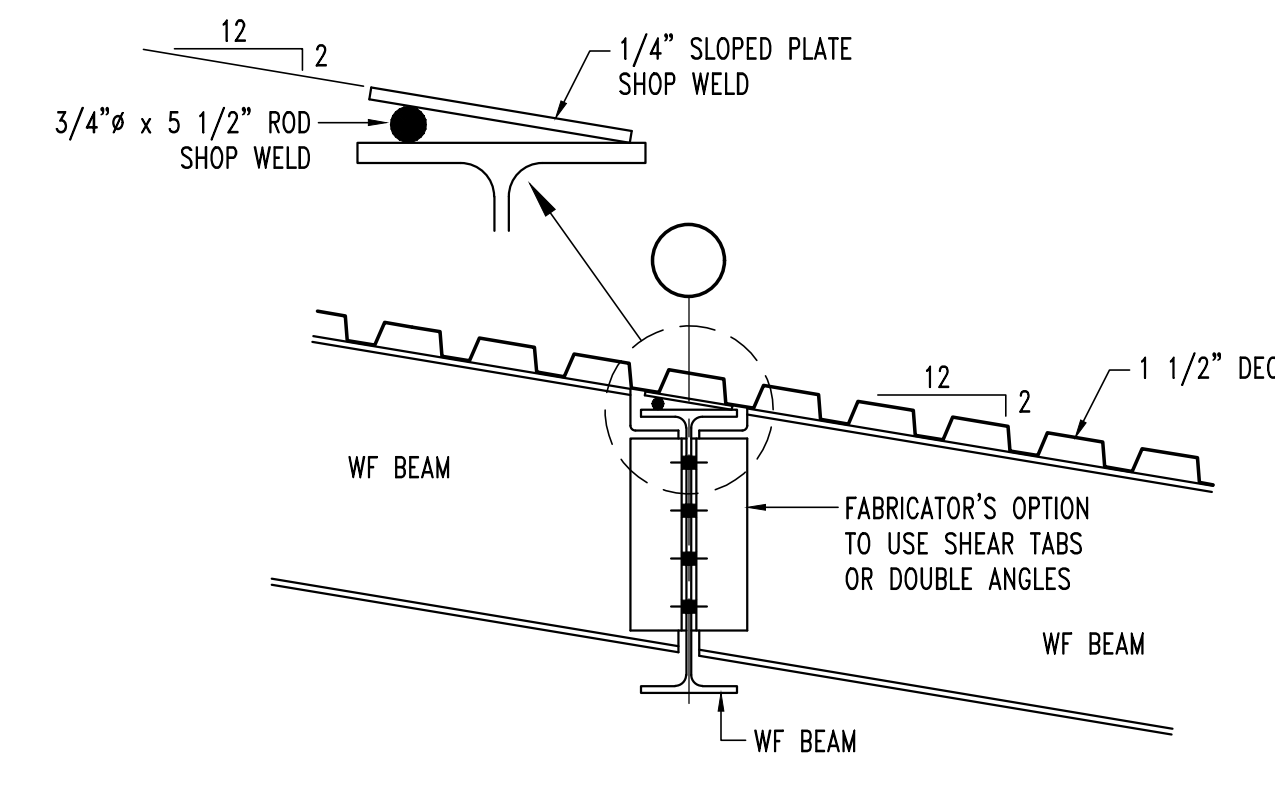
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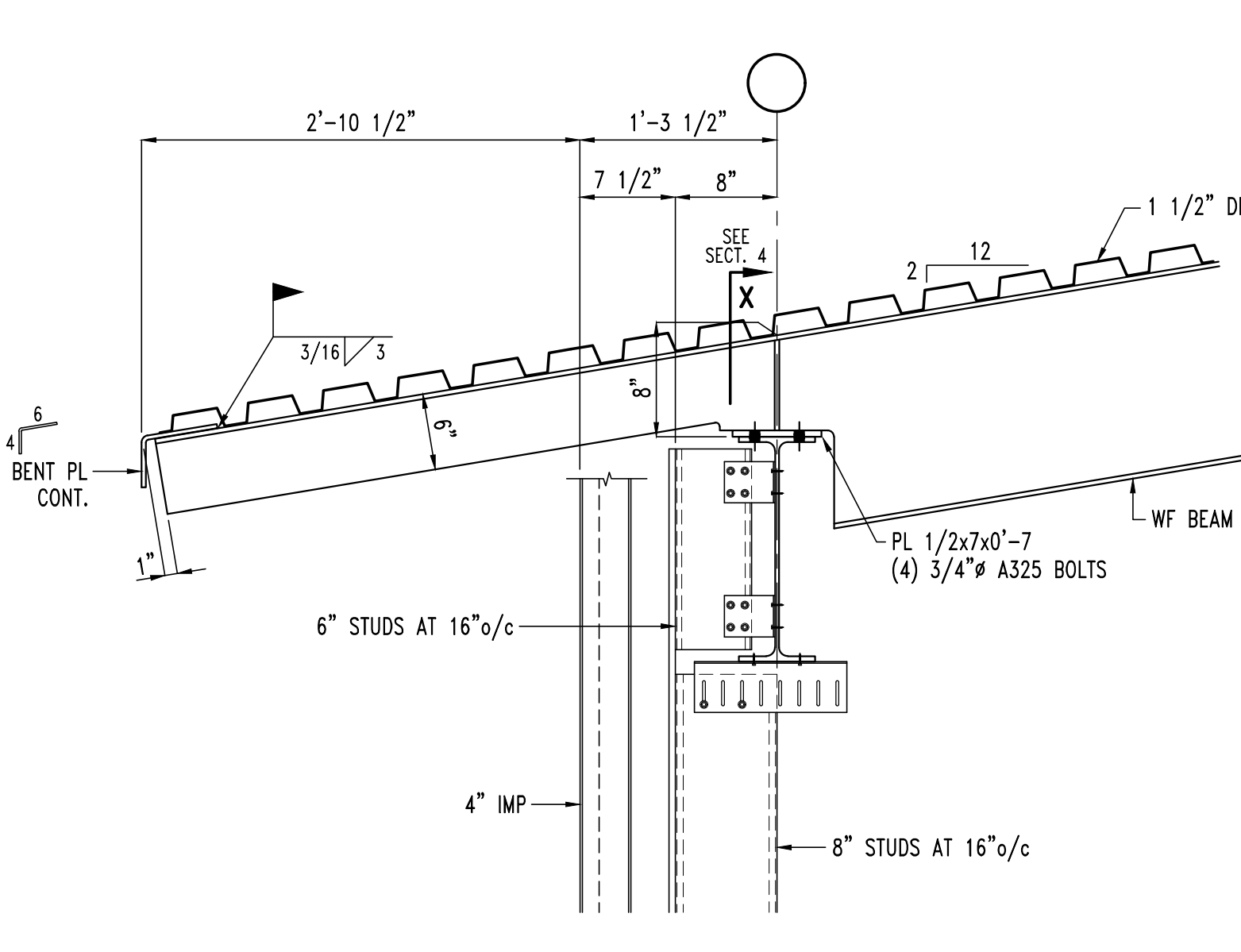
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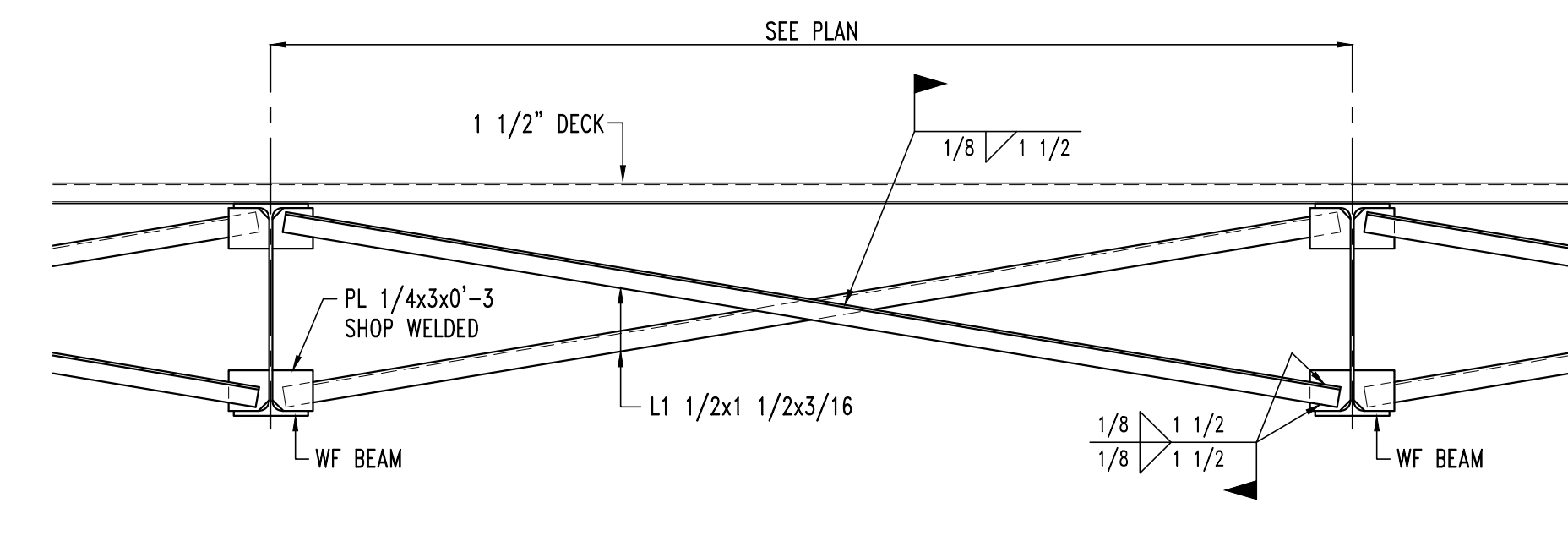
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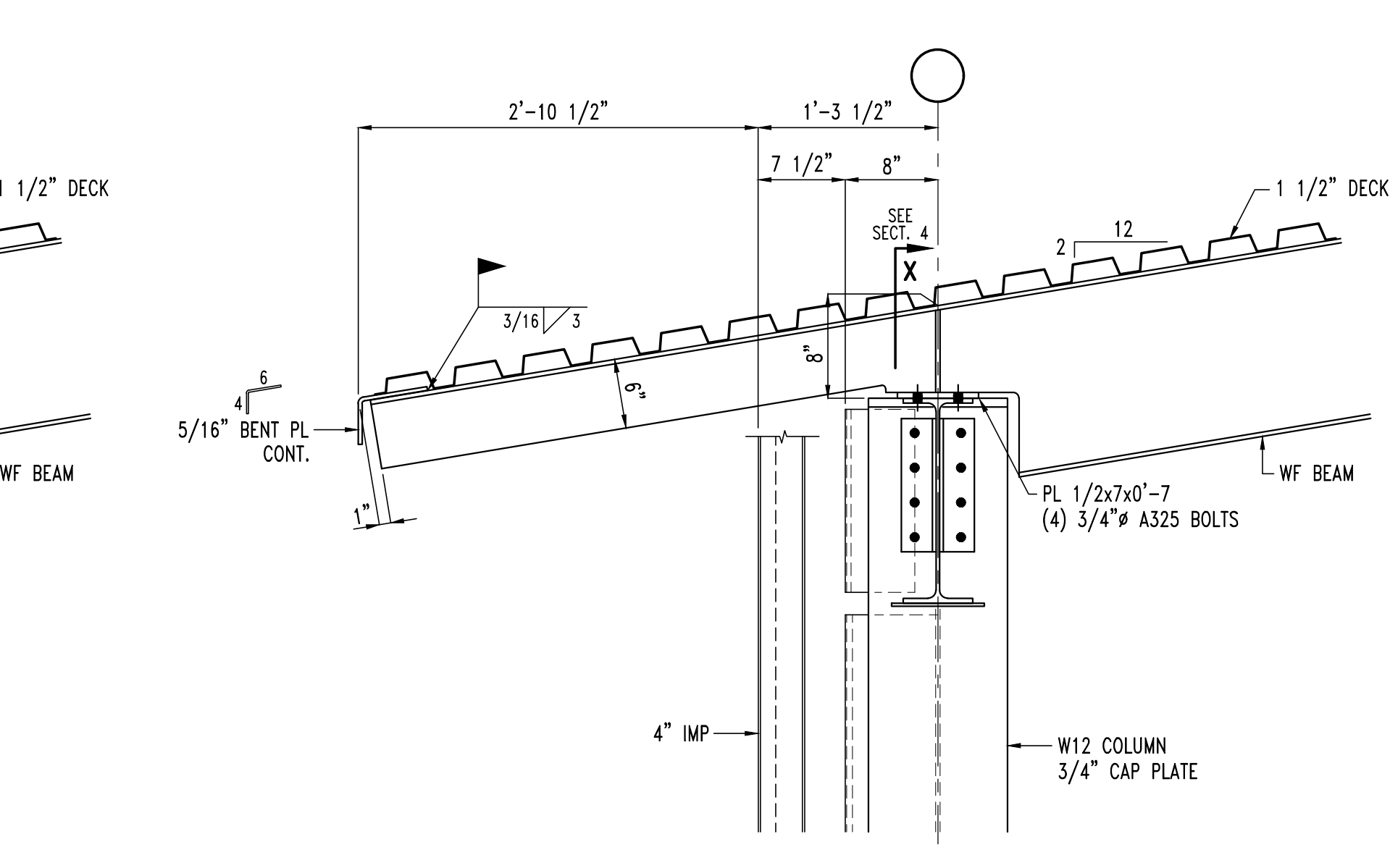
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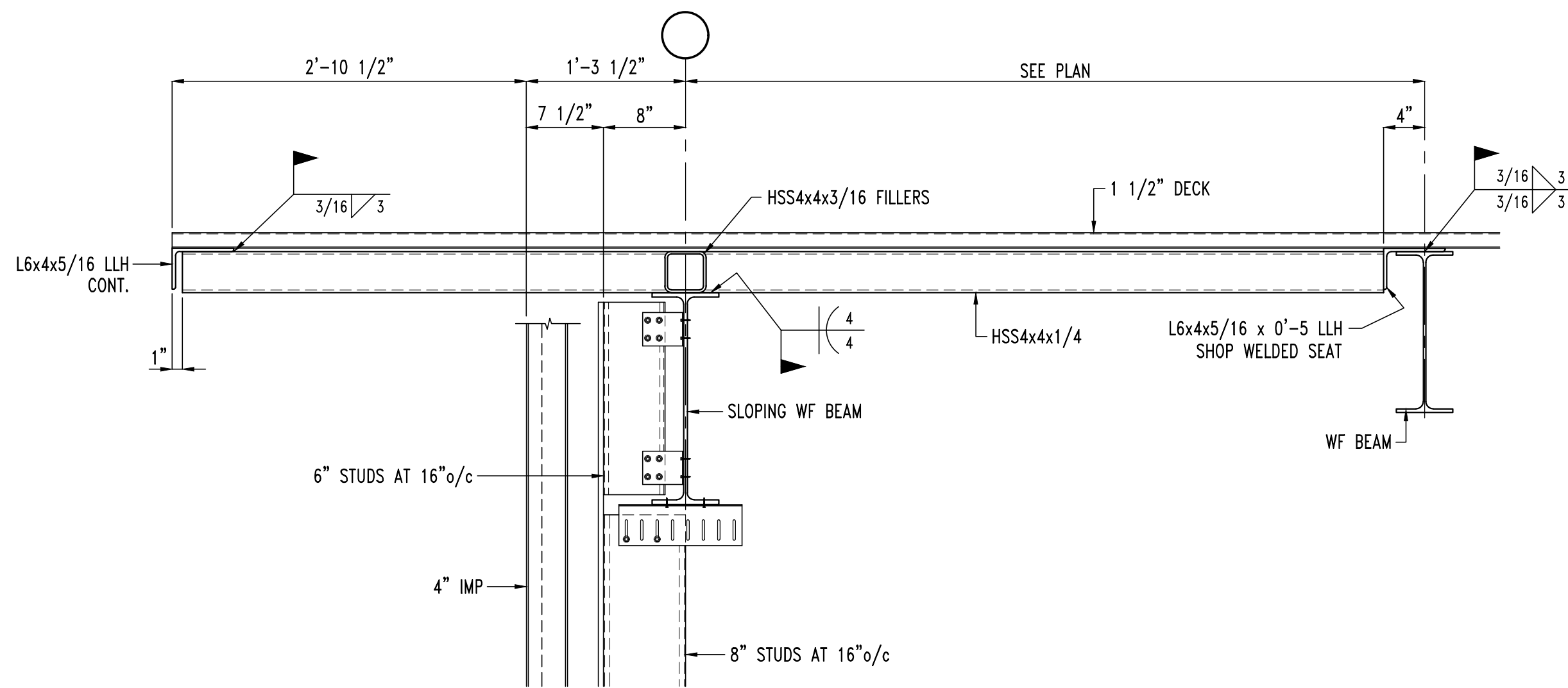
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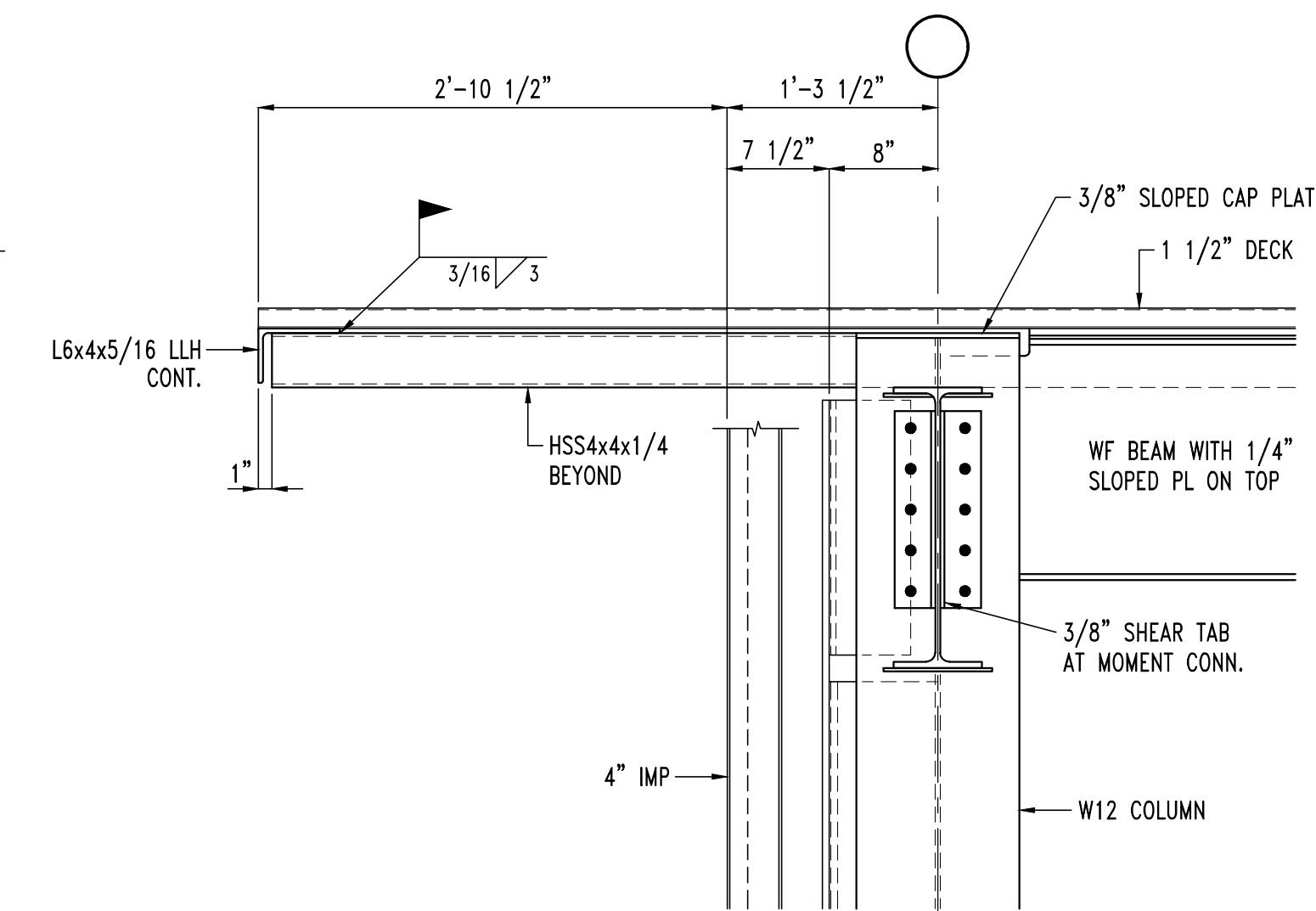
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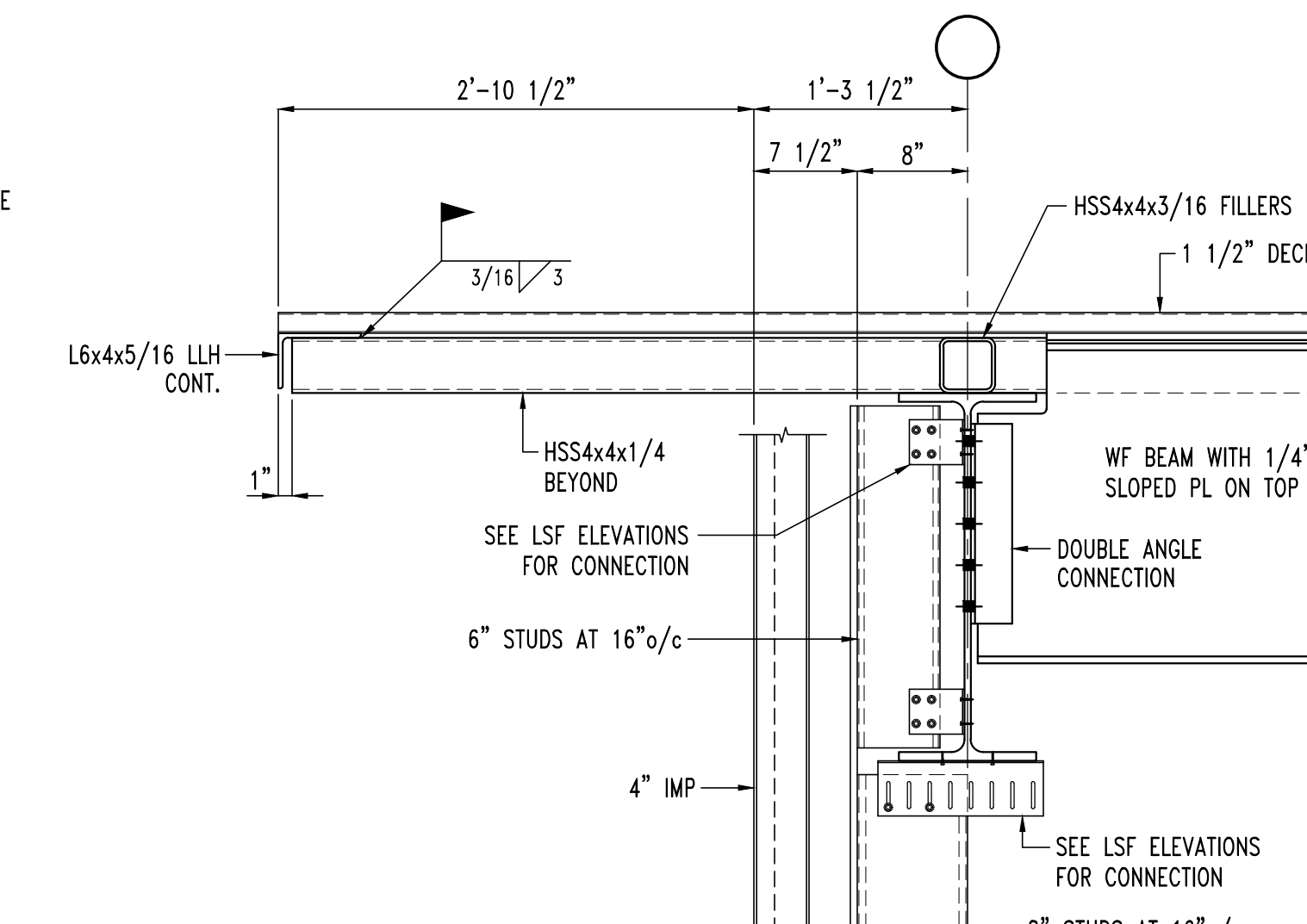
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ROOF FRAMING DETAIL
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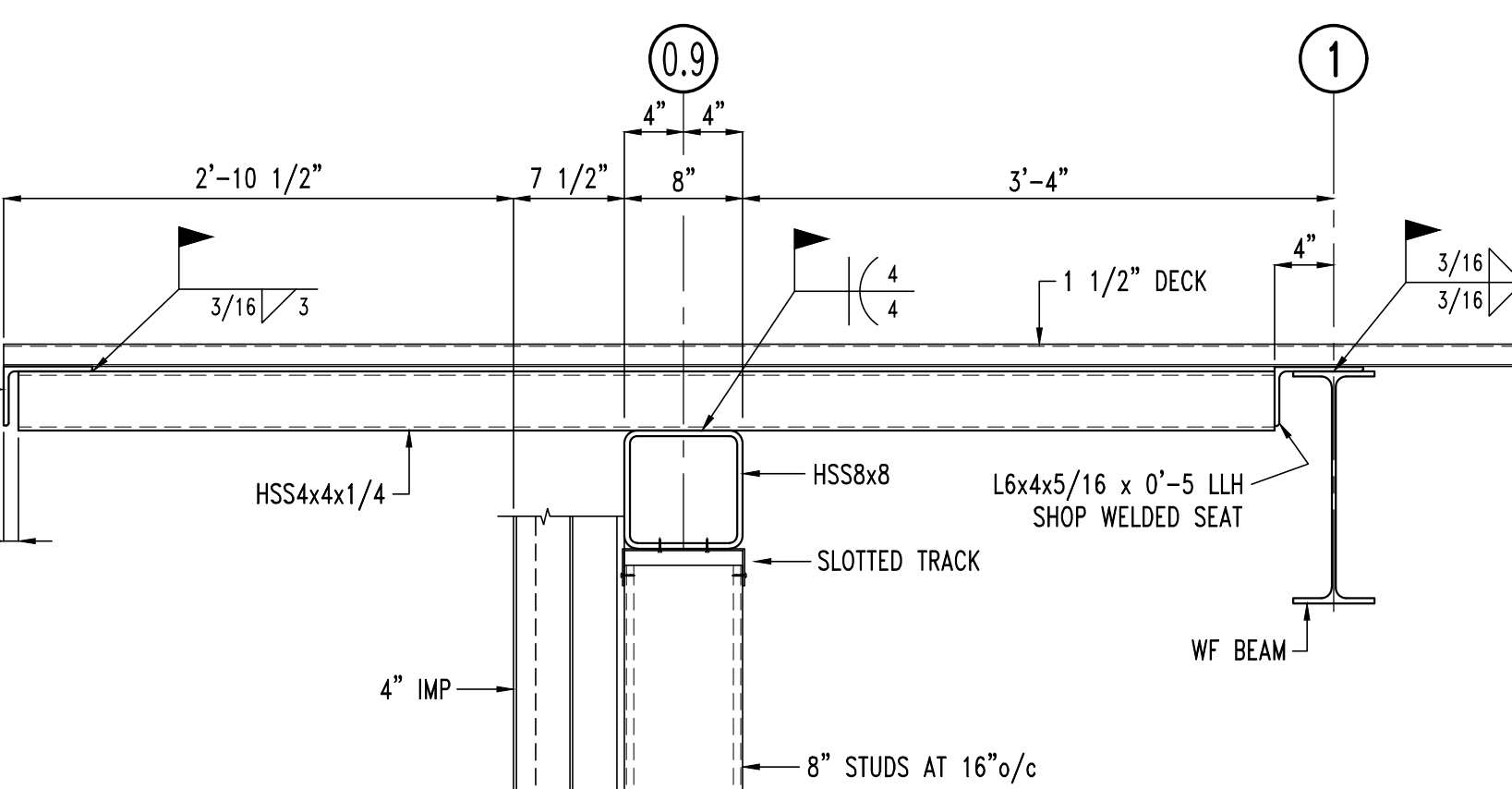
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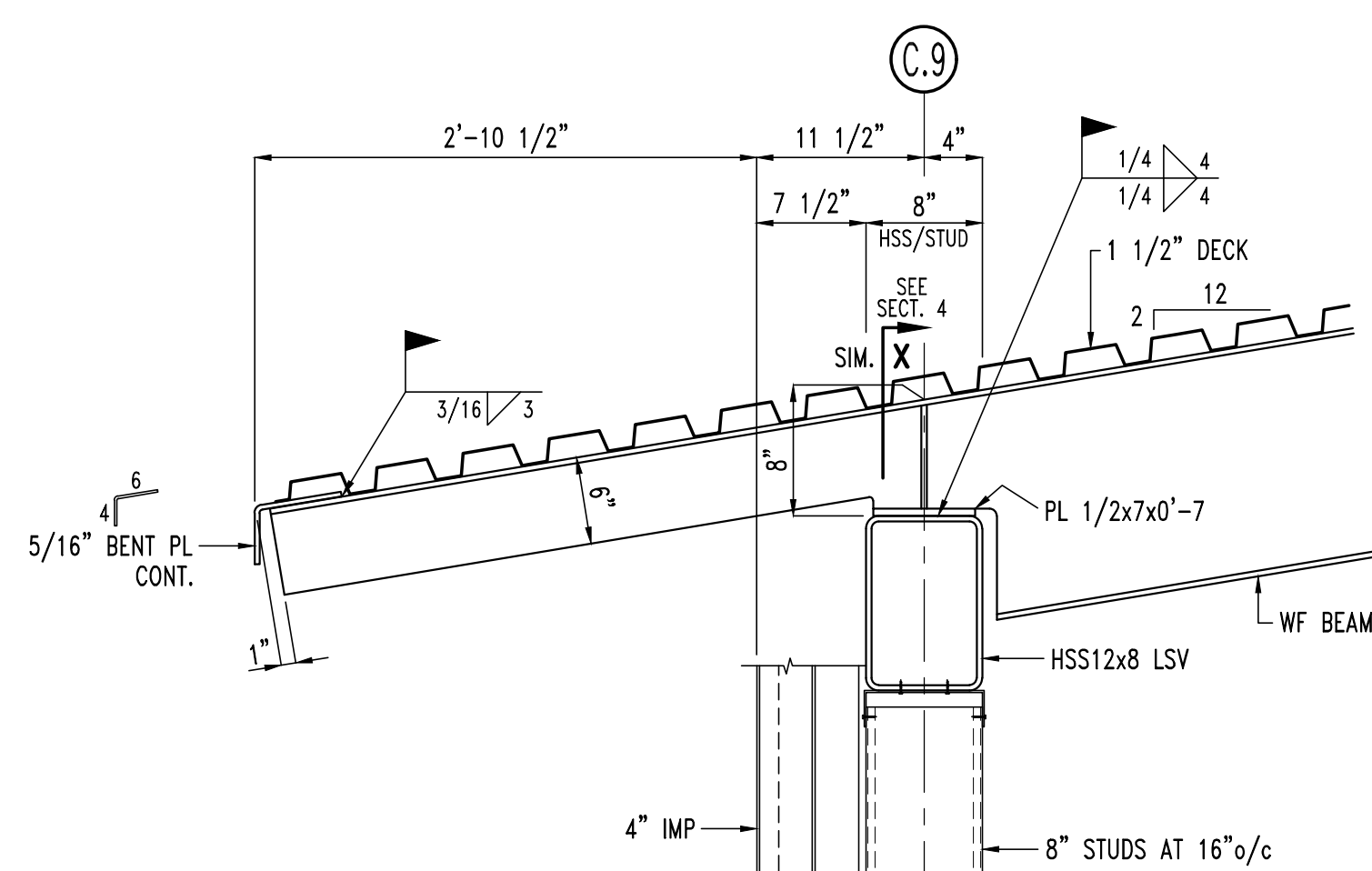
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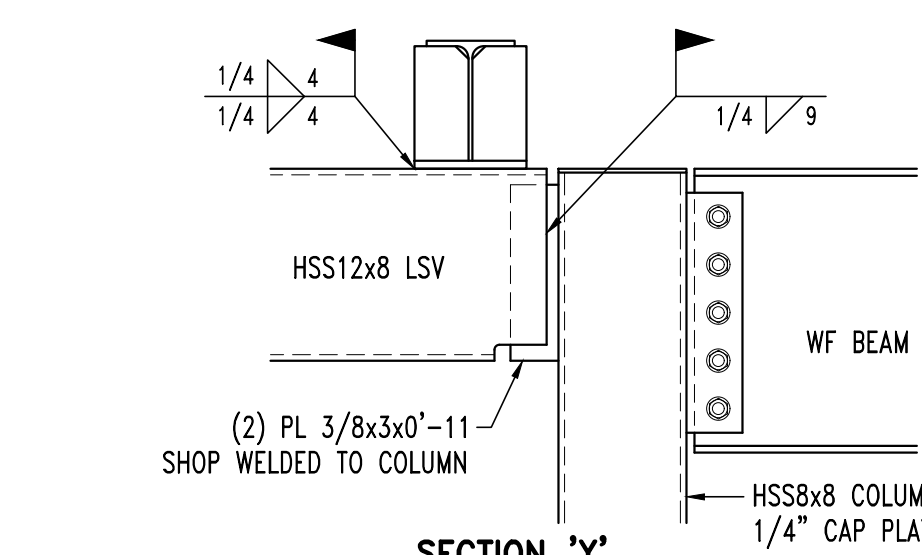
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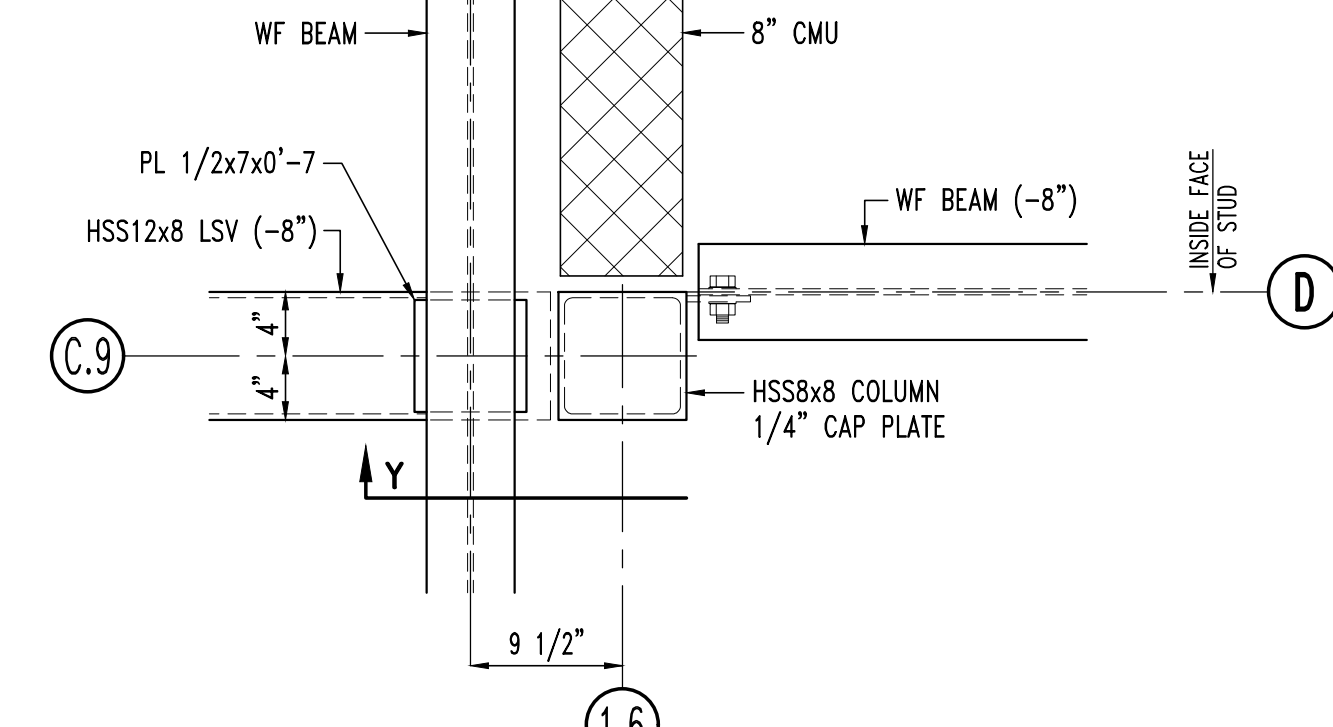
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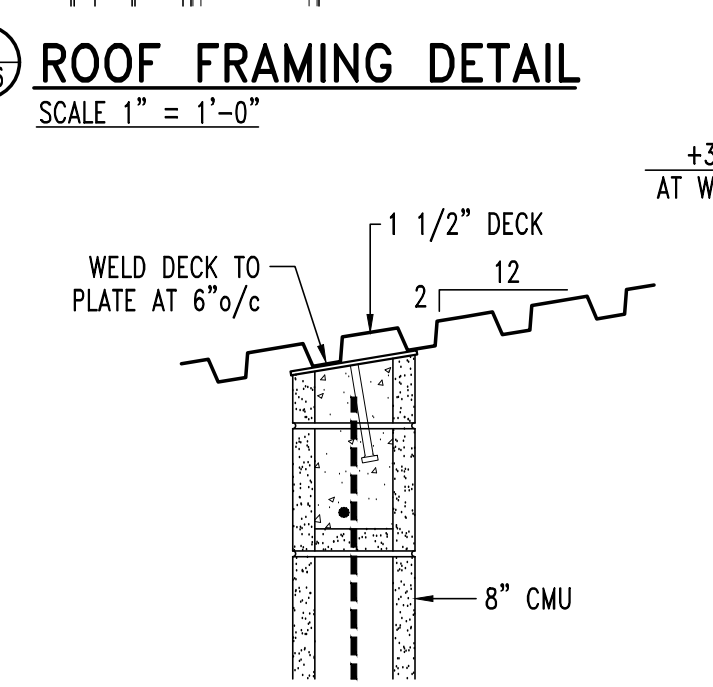
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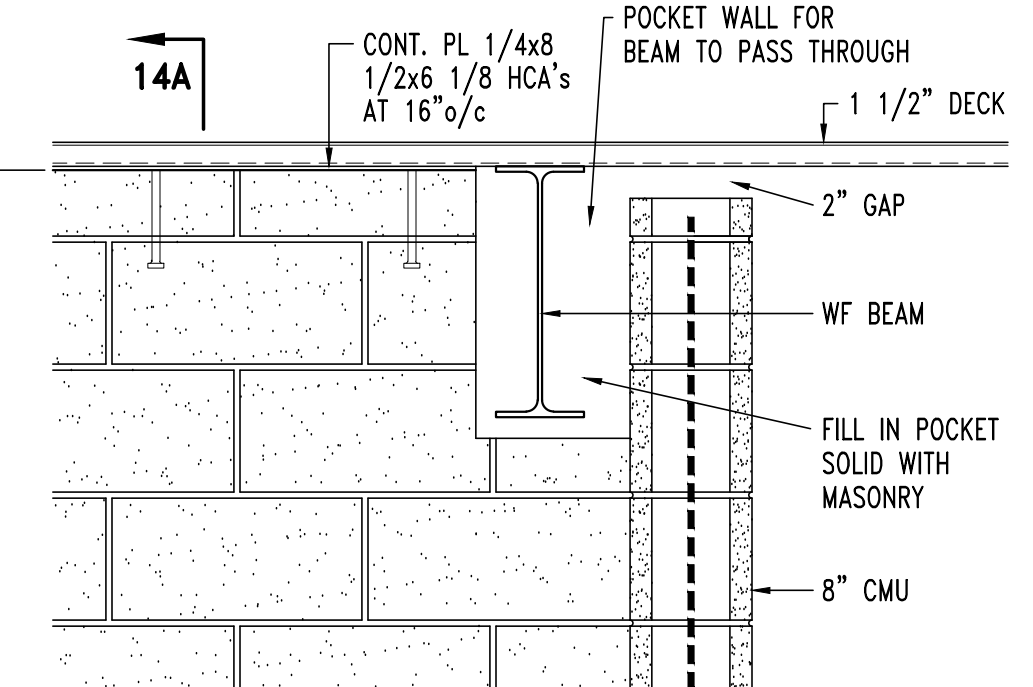
SECTION 'Y'



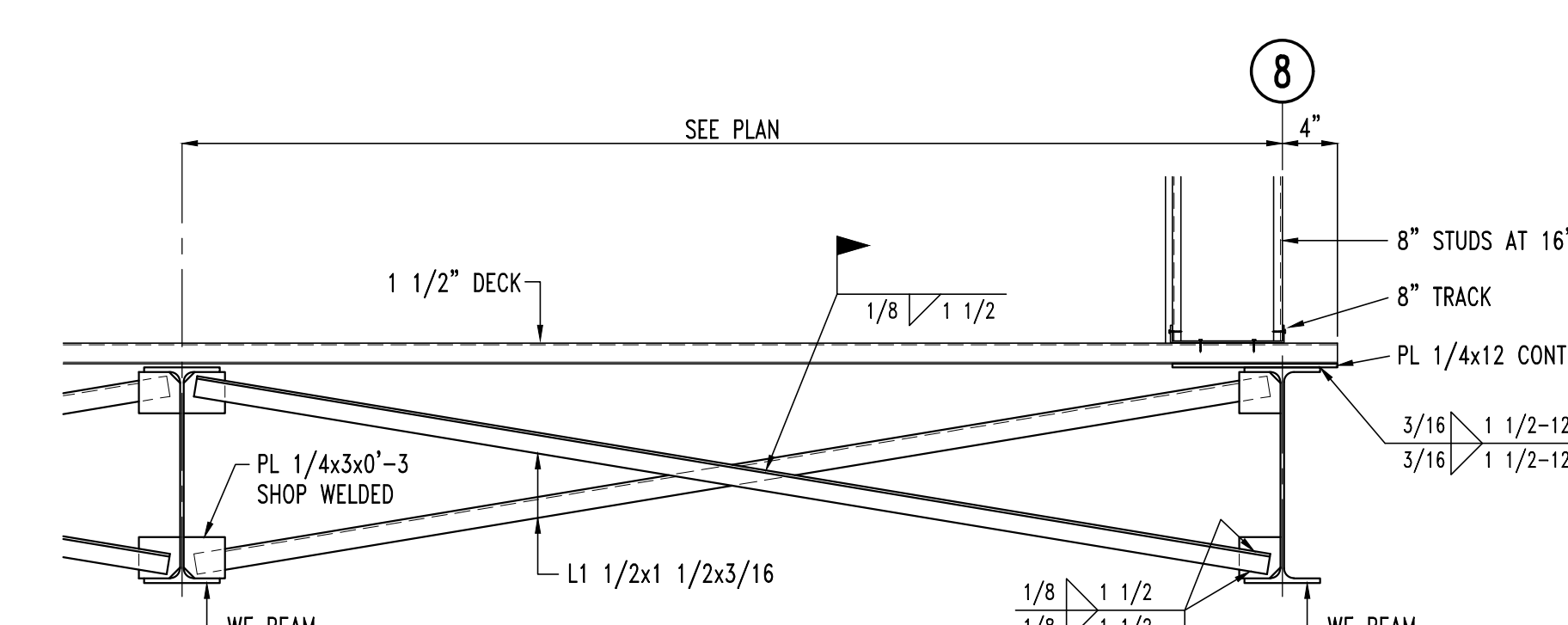
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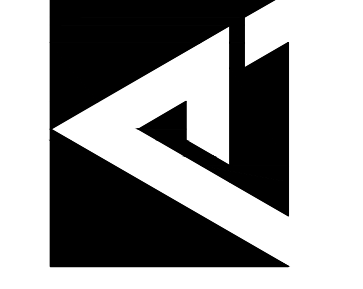
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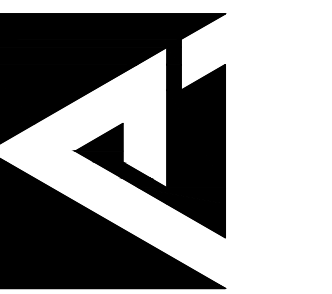
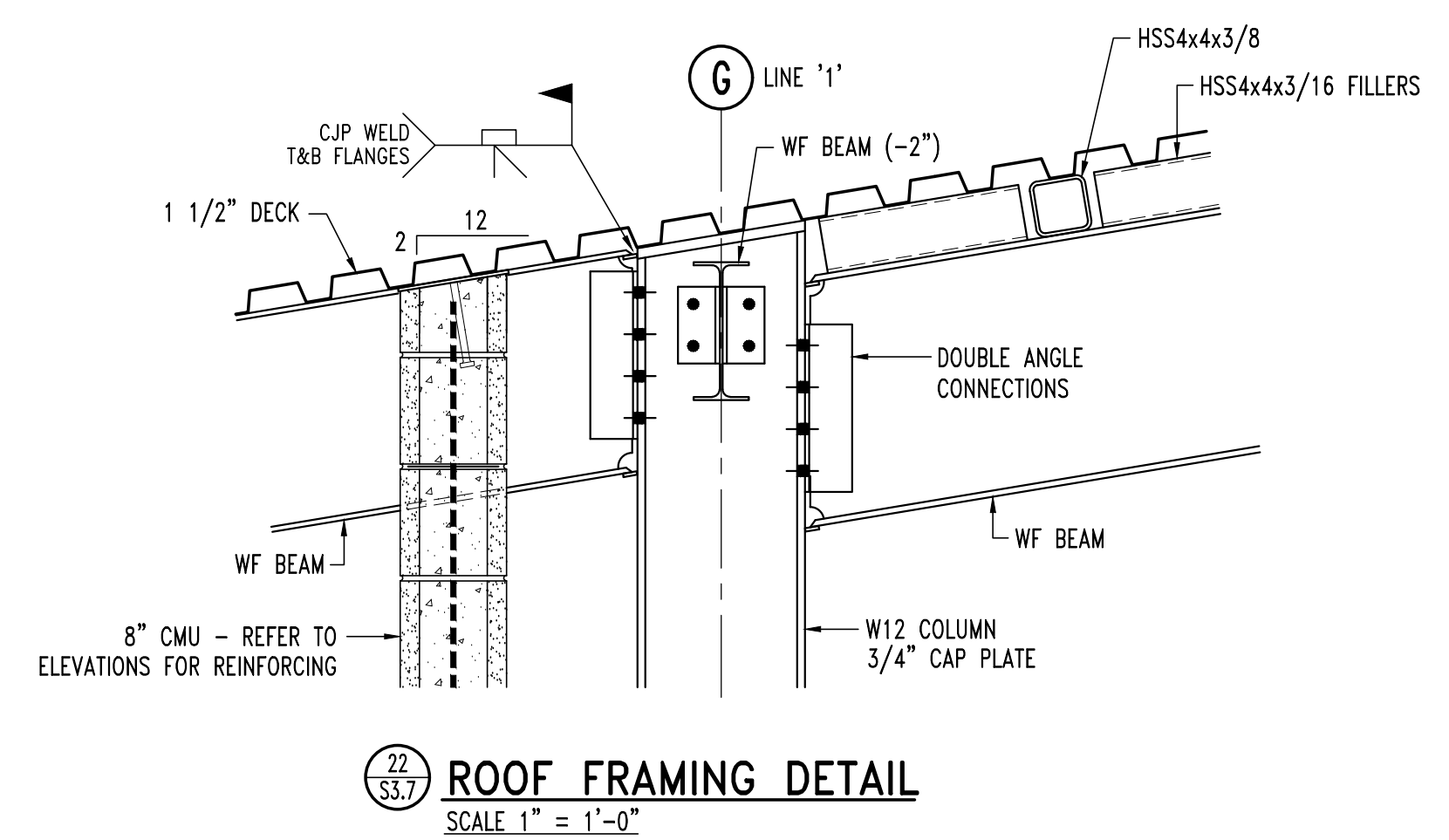
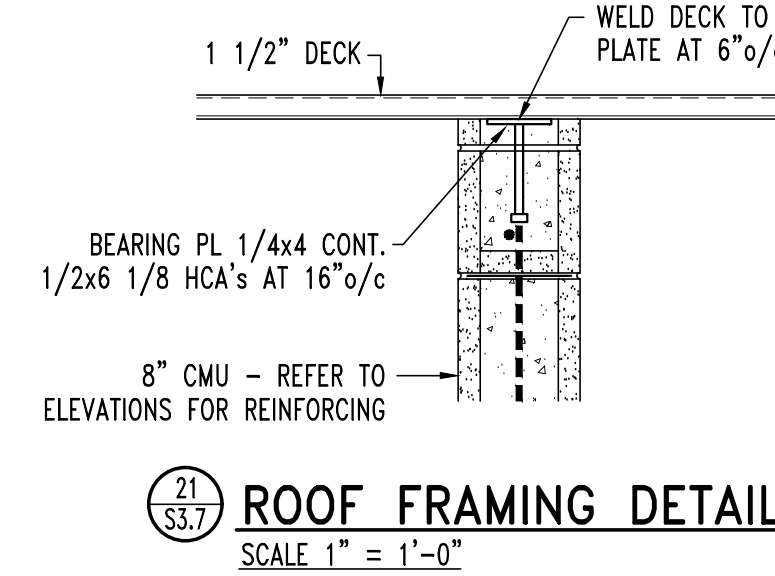
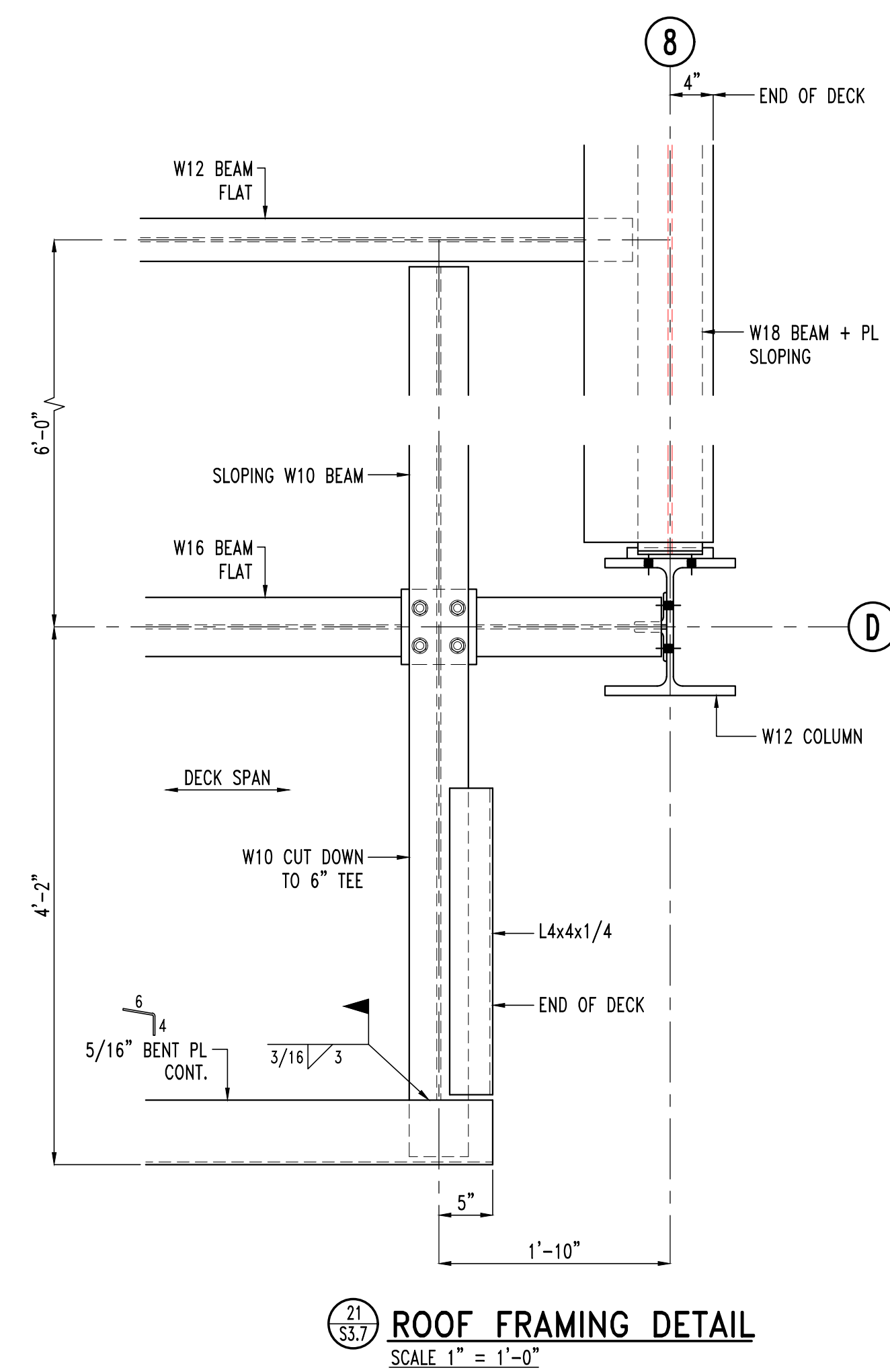
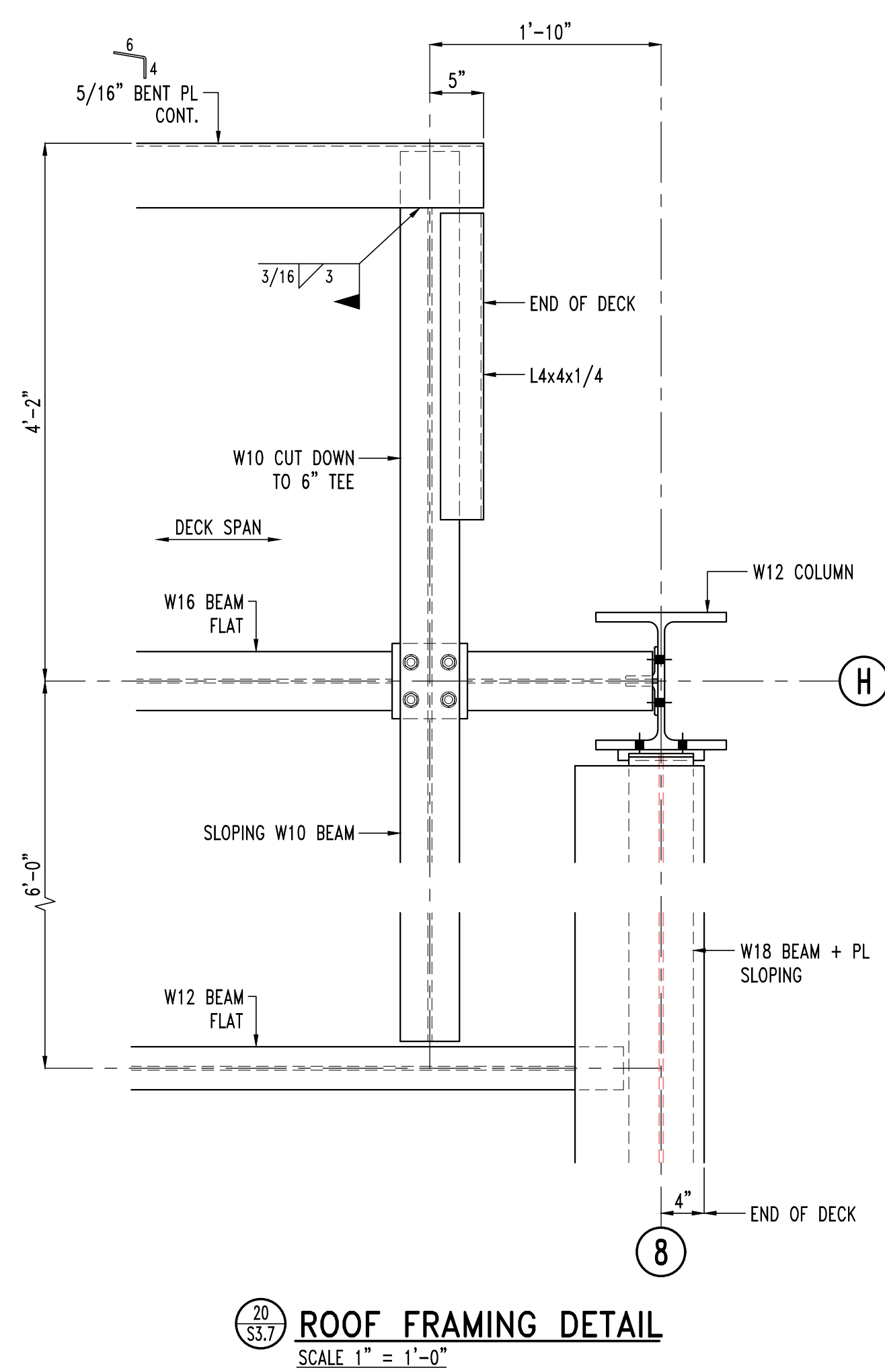
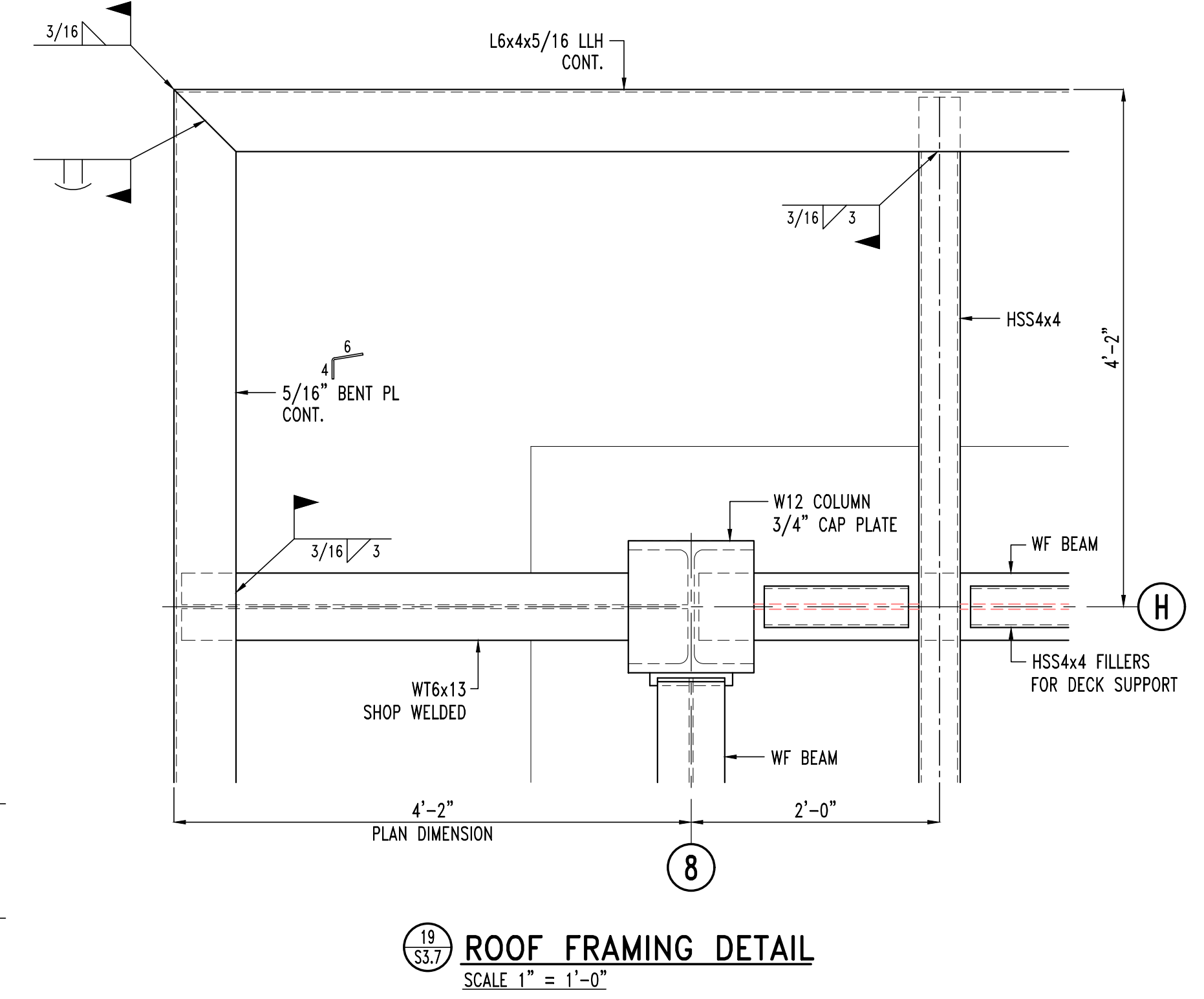
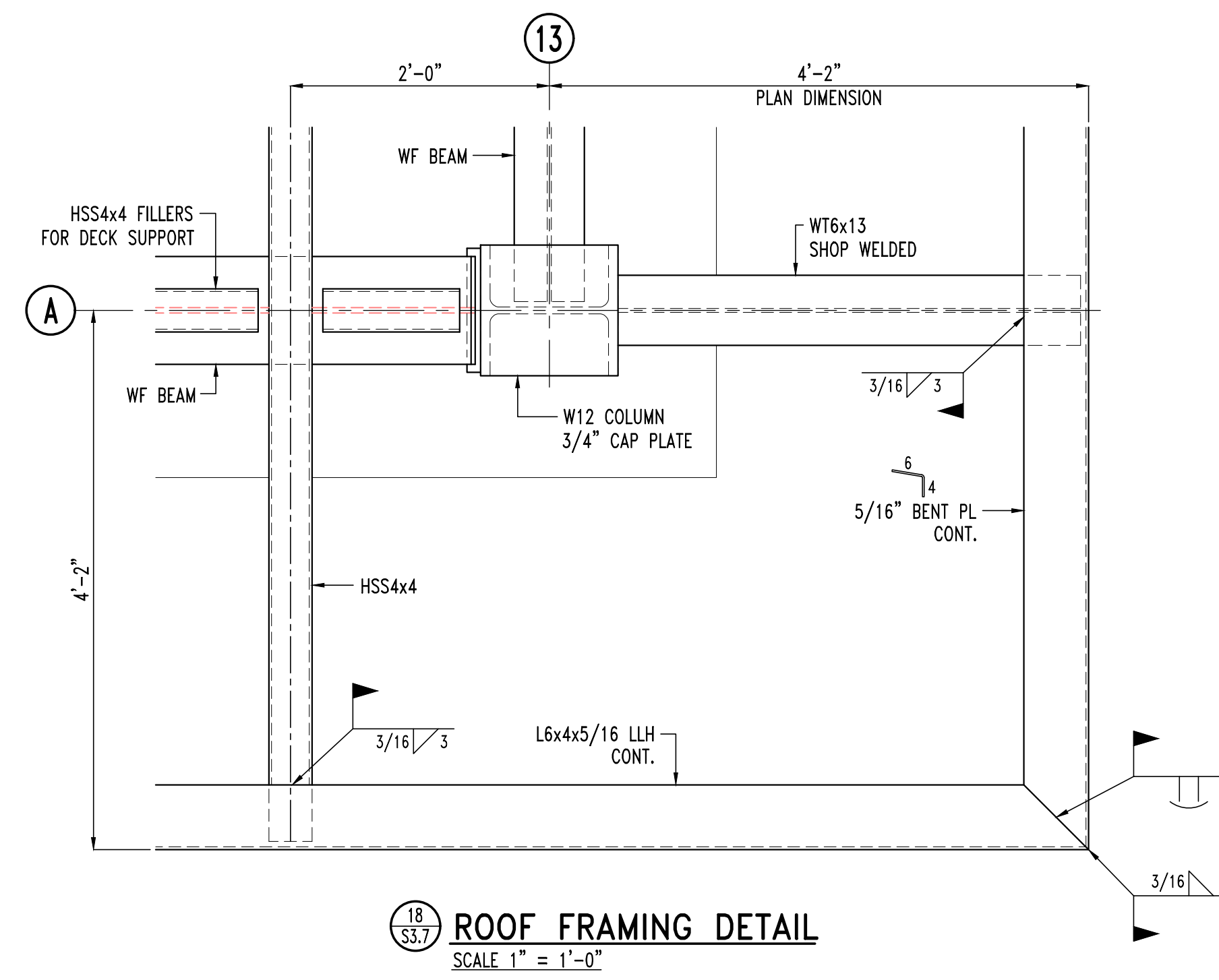
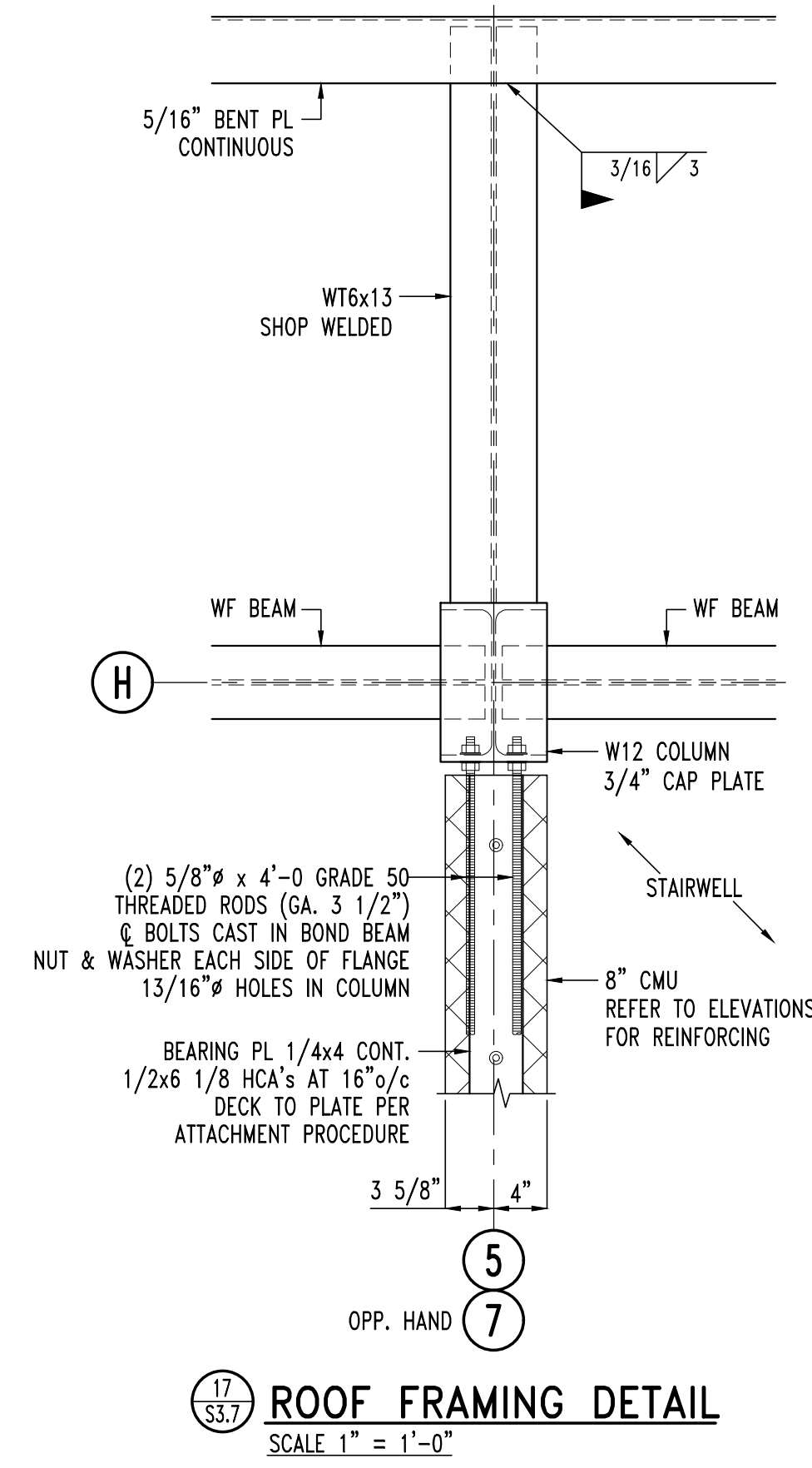
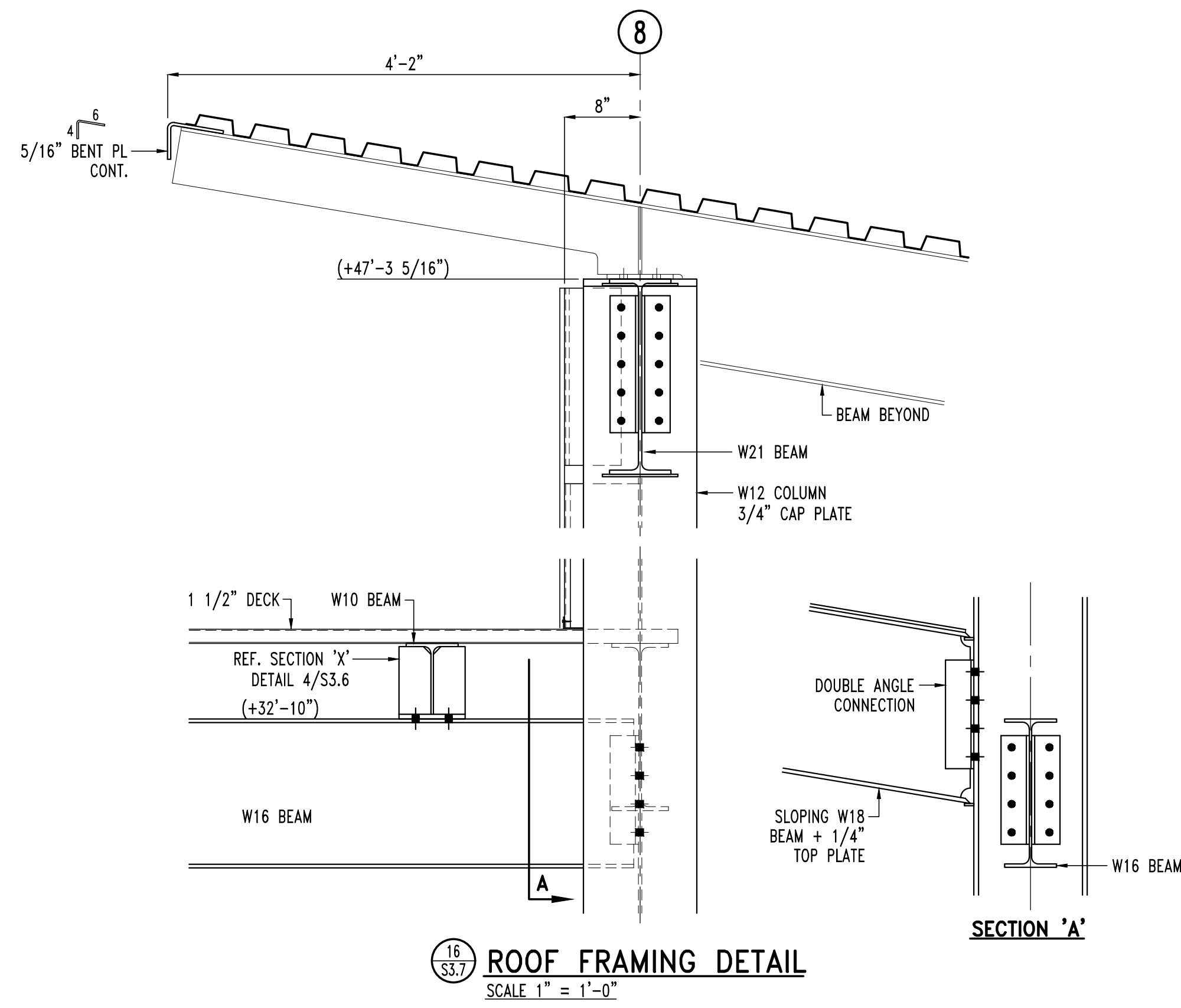


ROOF FRAMING DETAIL
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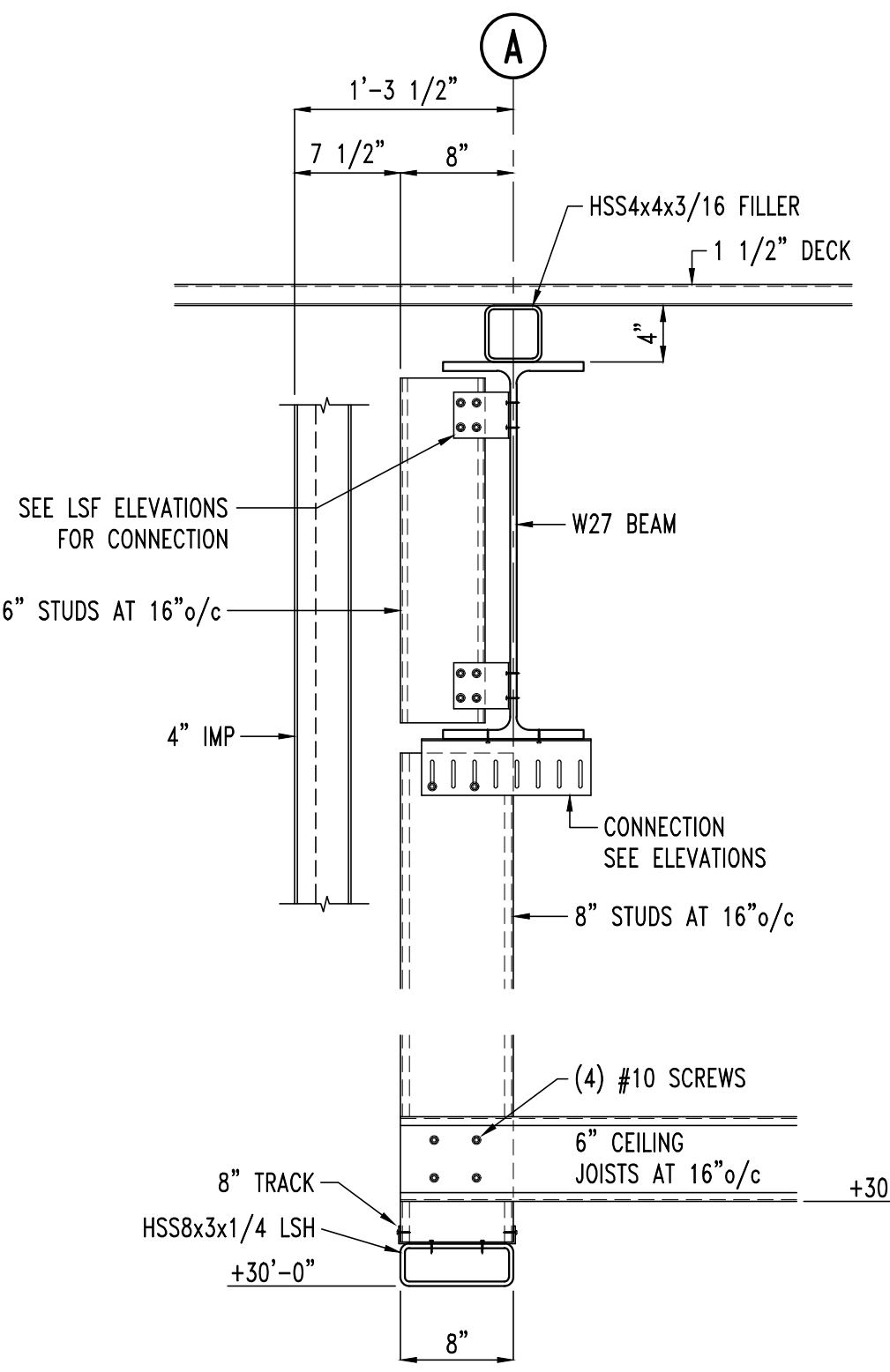
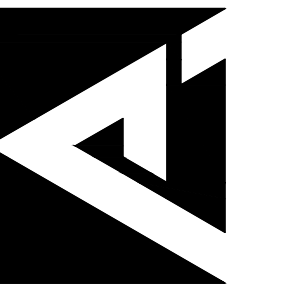


ROOF FRAMING DETAIL
SCALE 1" = 1'-0"

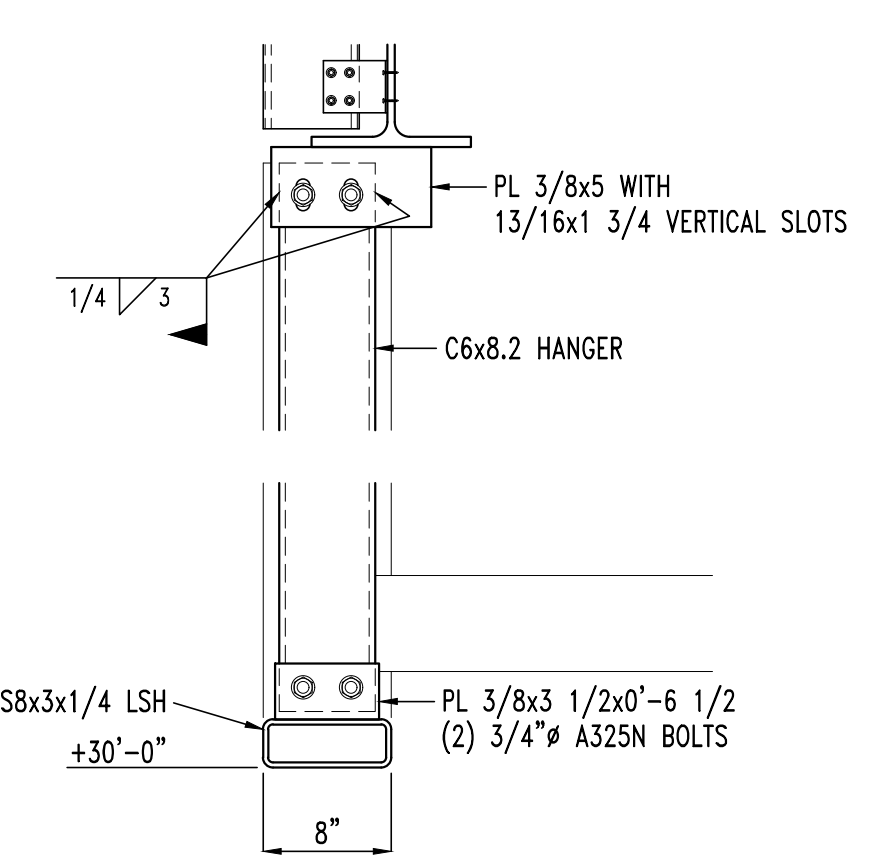




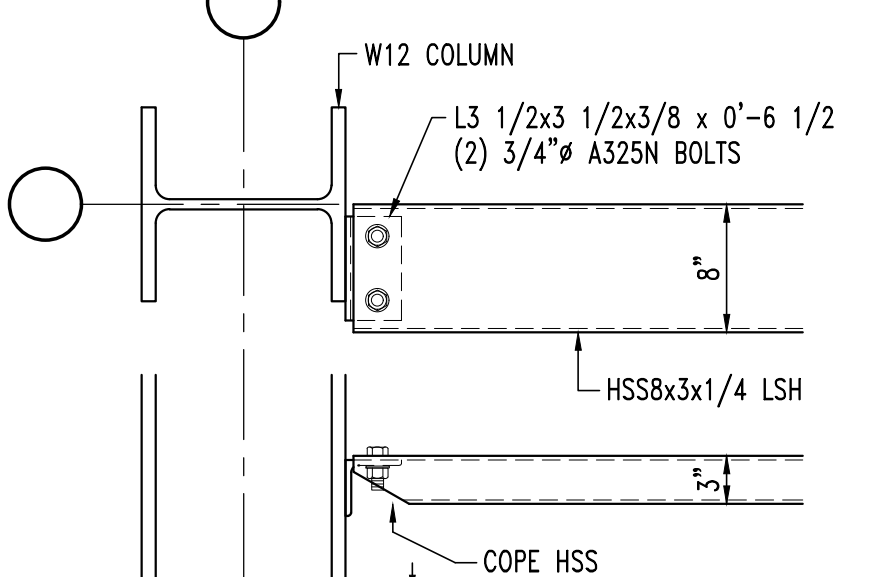
ISSUE SCHEDULE	DATE	REFERENCE
1	4/10/2024	CONSTRUCTION SET



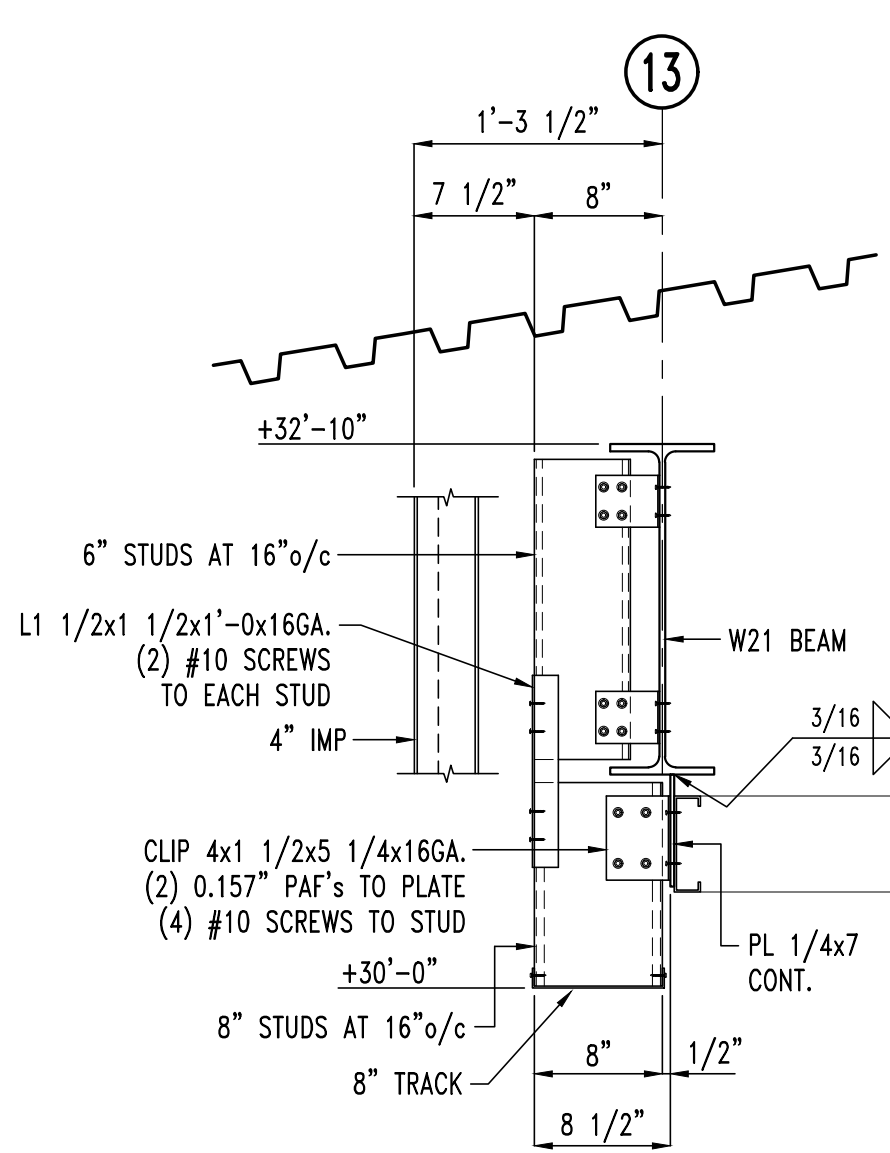
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S3.8
FRAMING DETAIL
SCALE 1" = 1'-0"



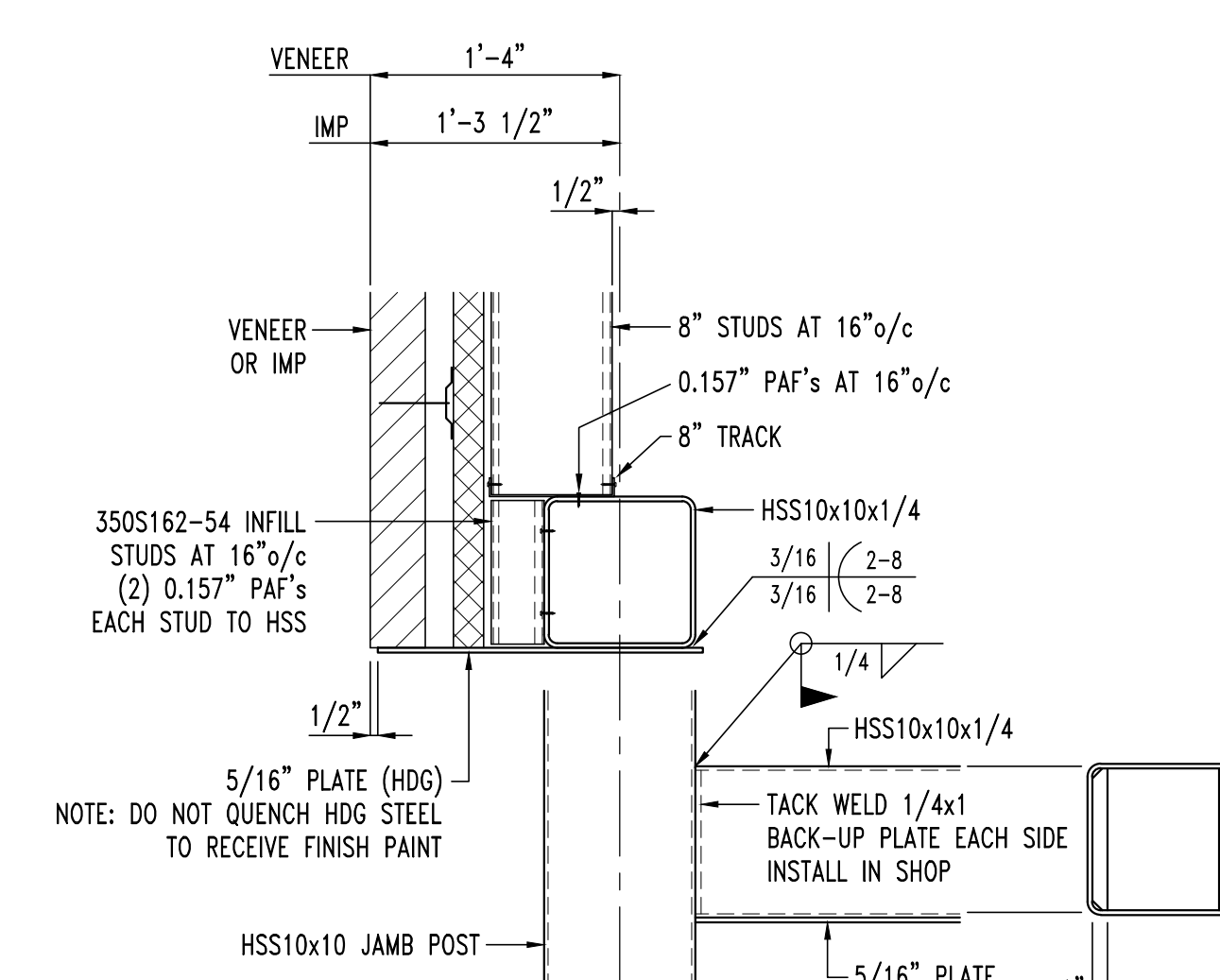
27
S3.8
DETAIL AT HANGER
SCALE 1" = 1'-0"



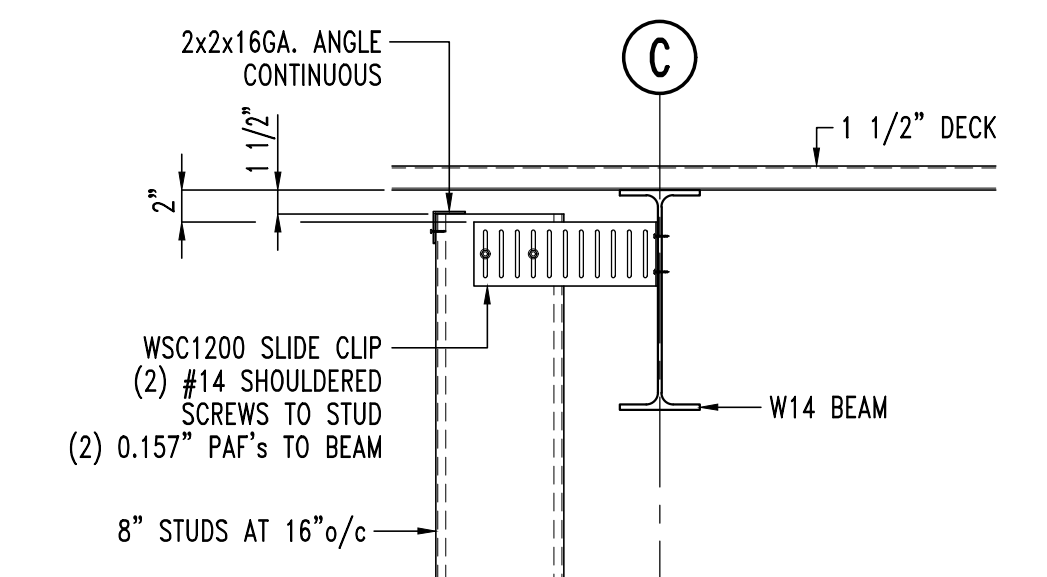
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FRAMING DETAIL
SCALE 1" = 1'-0"



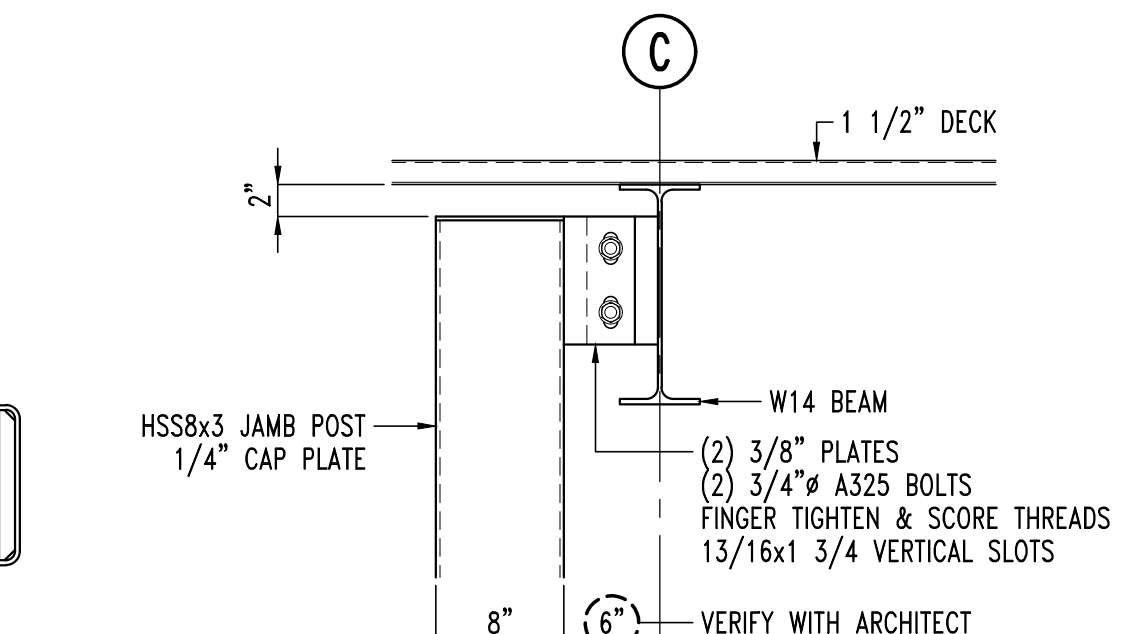
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FRAMING DETAIL
SCALE 1" = 1'-0"



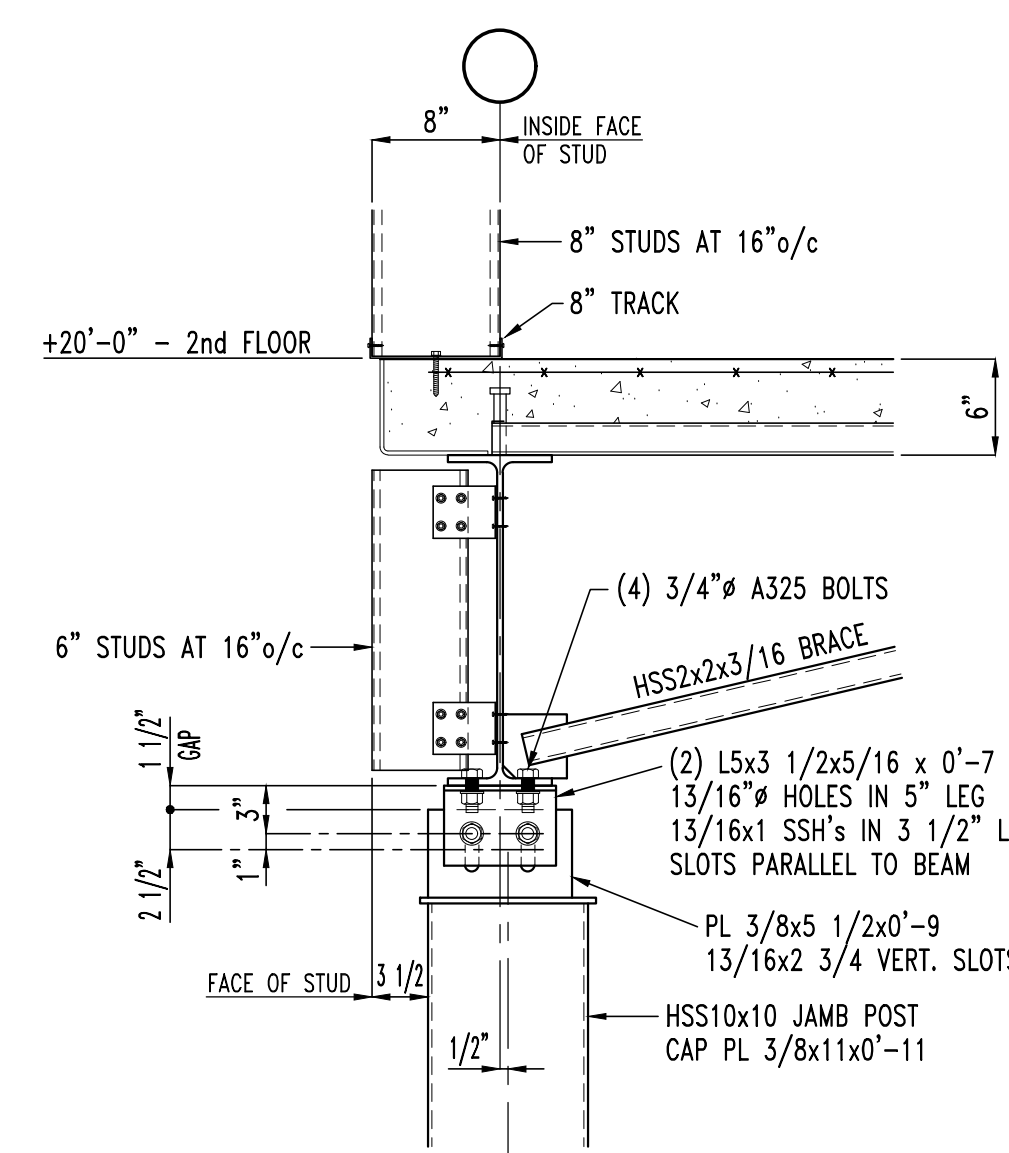
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FRAMING DETAIL
SCALE 1" = 1'-0"



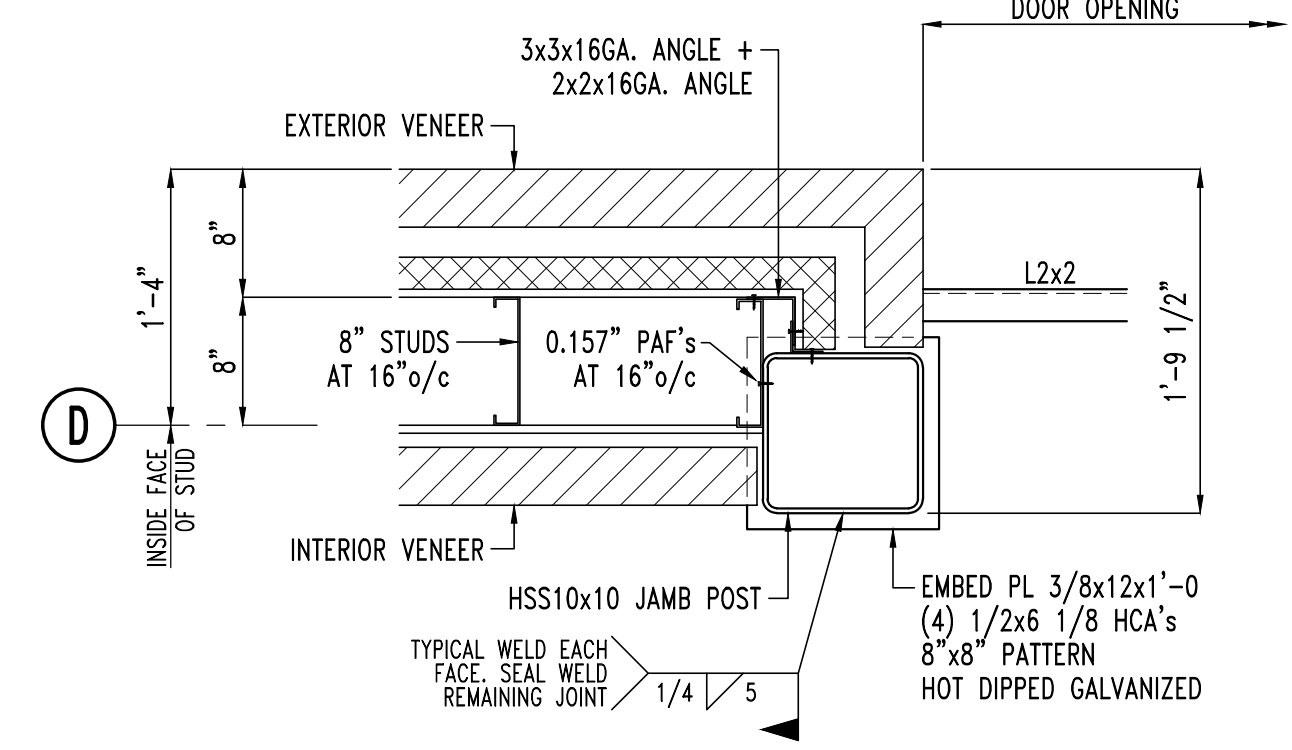
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S3.8
FRAMING DETAIL
SCALE 1" = 1'-0"



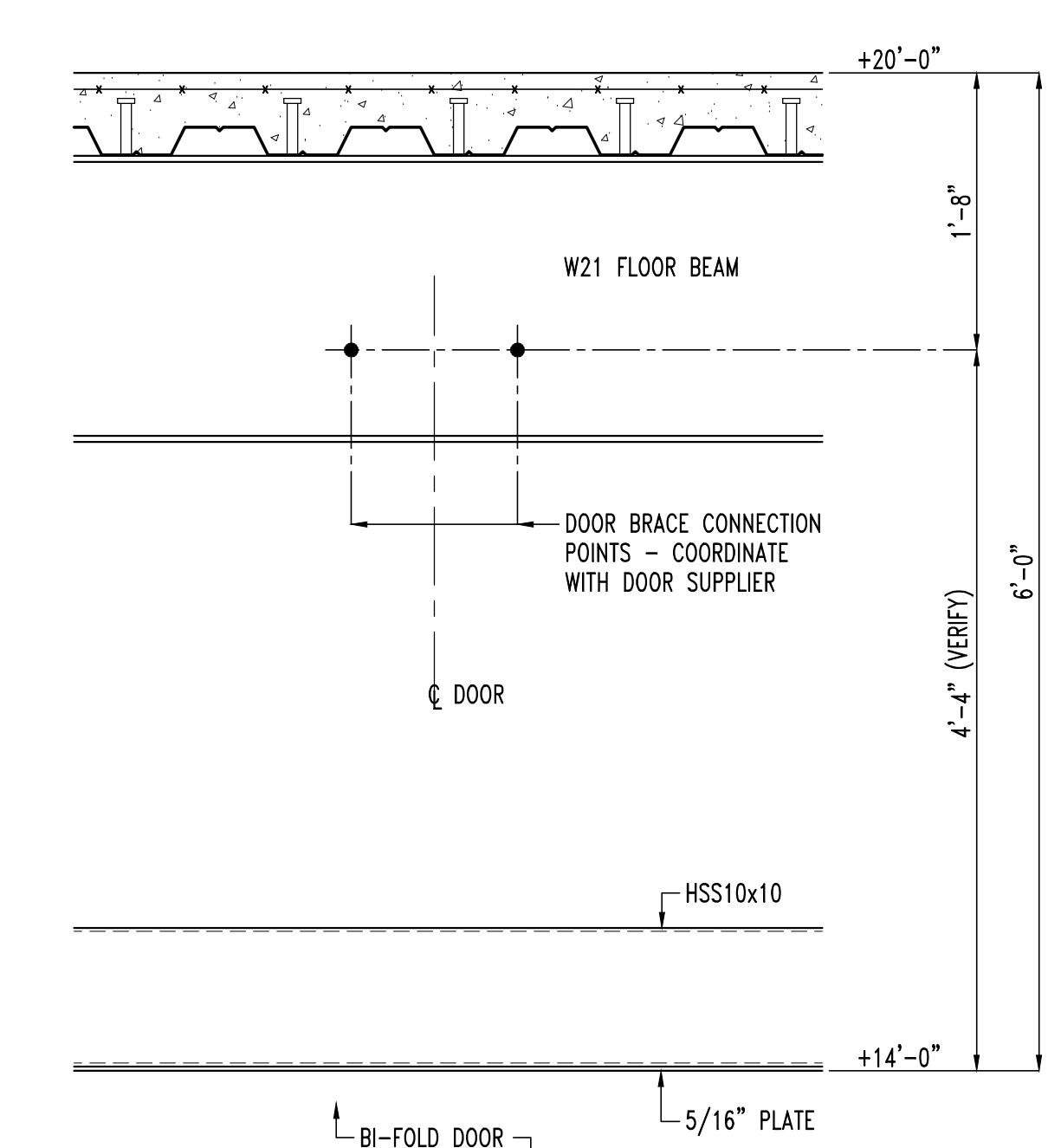
32
S3.8
FRAMING DETAIL
SCALE 1" = 1'-0"



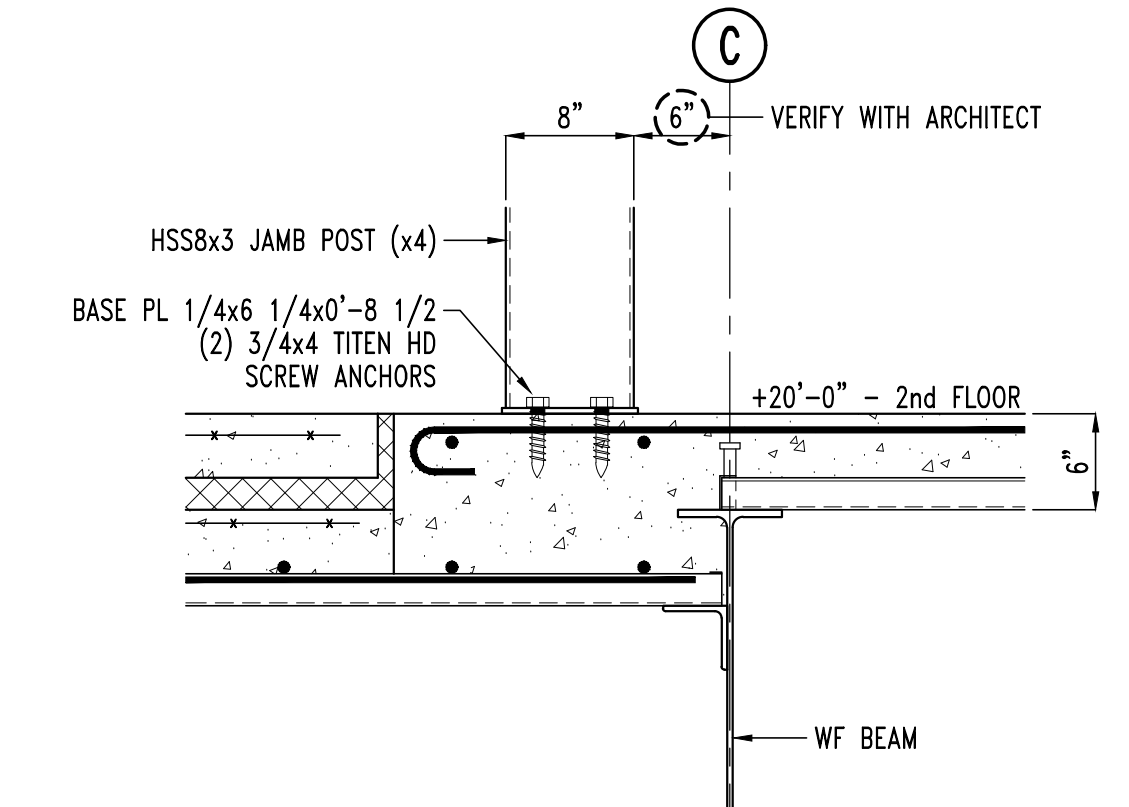
33
S3.8
OHD JAMB CONNECTION
FRAMING DETAIL
SCALE 1" = 1'-0"



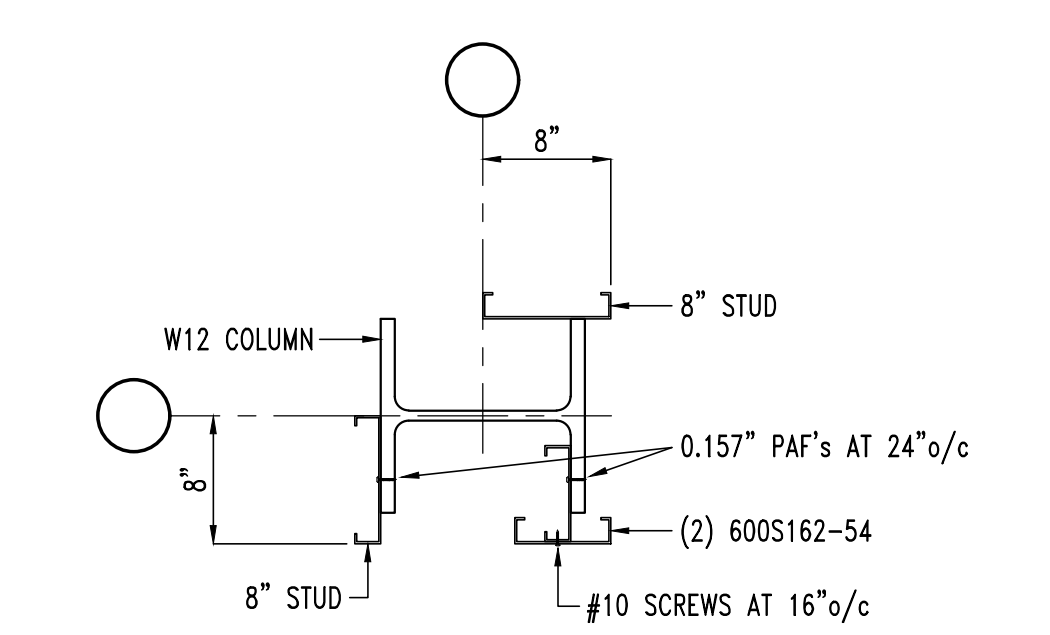
34
S3.8
OHD JAMB DETAIL
FRAMING DETAIL
SCALE 1" = 1'-0"



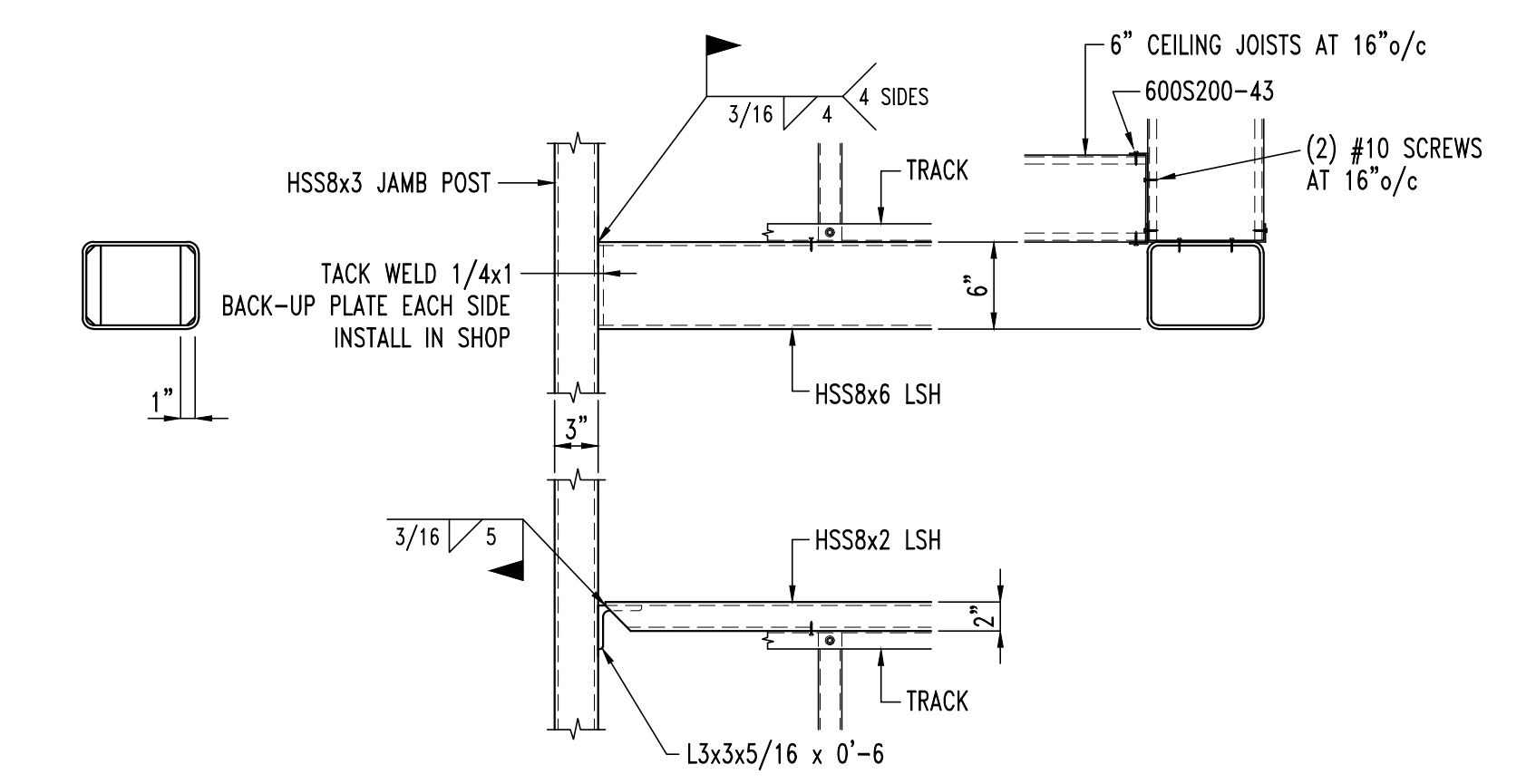
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S3.8
FRAMING DETAIL
SCALE 1" = 1'-0"



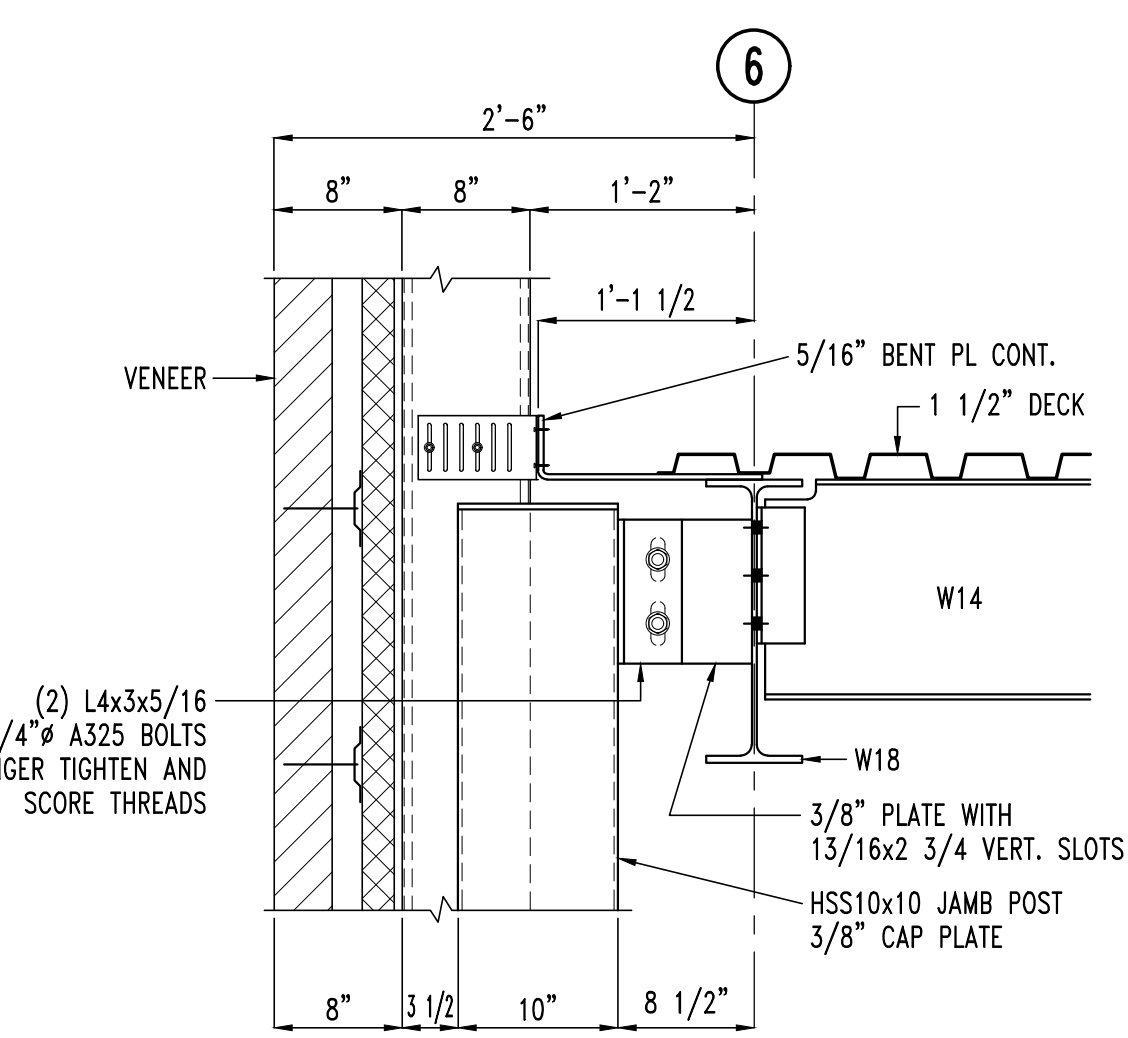
36
S3.8
FRAMING DETAIL
SCALE 1" = 1'-0"



37
S3.8
STUD FRAMING AT COLUMN/CORNER
SCALE 1" = 1'-0"

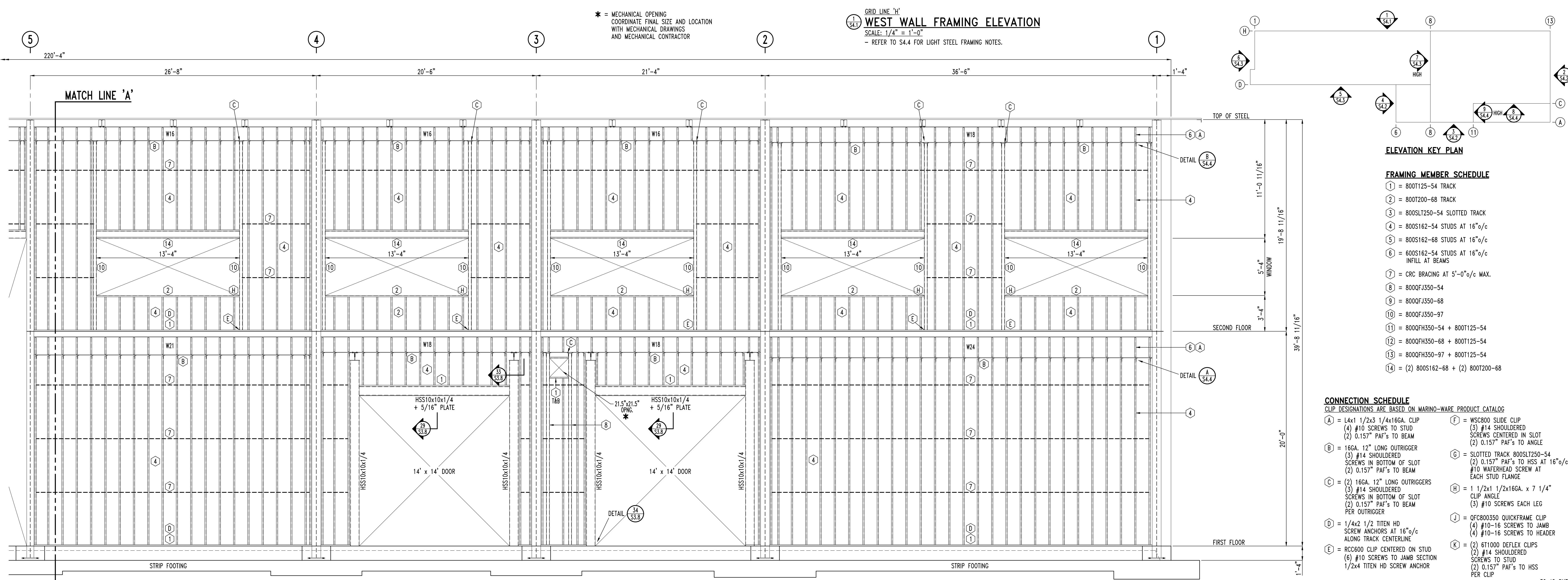
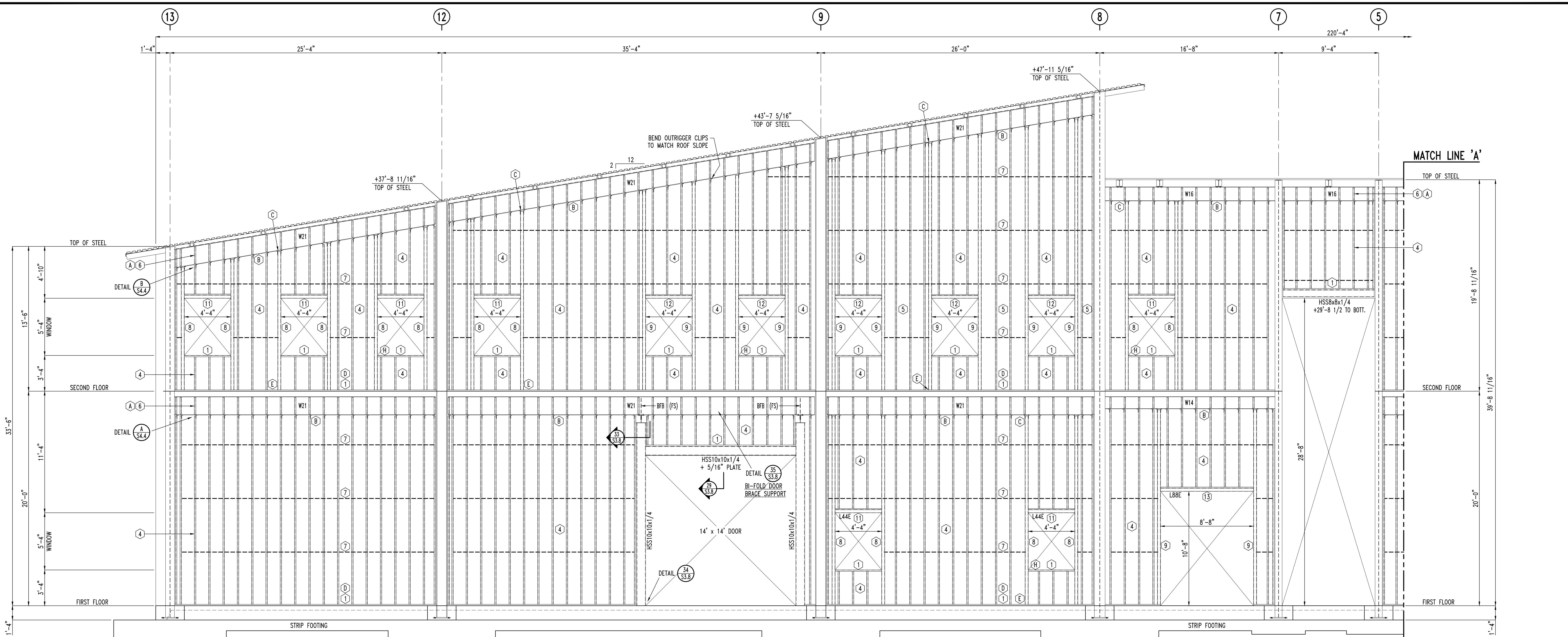


38
S3.8
HSS WALL FRAMING DETAIL
SCALE 1" = 1'-0"



39
S3.8
OHD JAMB CONNECTION
FRAMING DETAIL
SCALE 1" = 1'-0"

* REQUIRED AT (ONE) 14'-0x14'-0 BI-FOLD DOOR *
BI-FOLD DOOR BRACE SUPPORT



* = MECHANICAL OPENING
COORDINATE FINAL SIZE AND LOCATION
WITH MECHANICAL DRAWINGS
AND MECHANICAL CONTRACTOR

GRID LINE 'H'
WEST WALL FRAMING ELEVATION
SCALE: 1/4" = 1'-0"
- REFER TO S4.4 FOR LIGHT STEEL FRAMING NOTES.

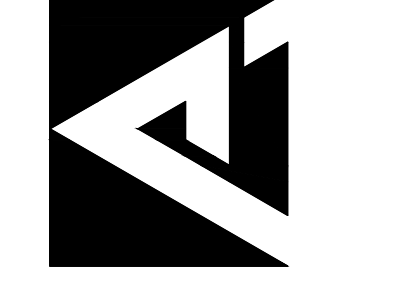
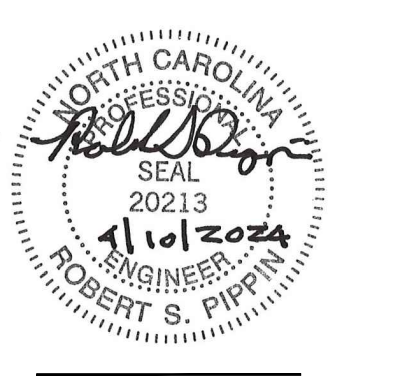
ELEVATION KEY PLAN

FRAMING MEMBER SCHEDULE

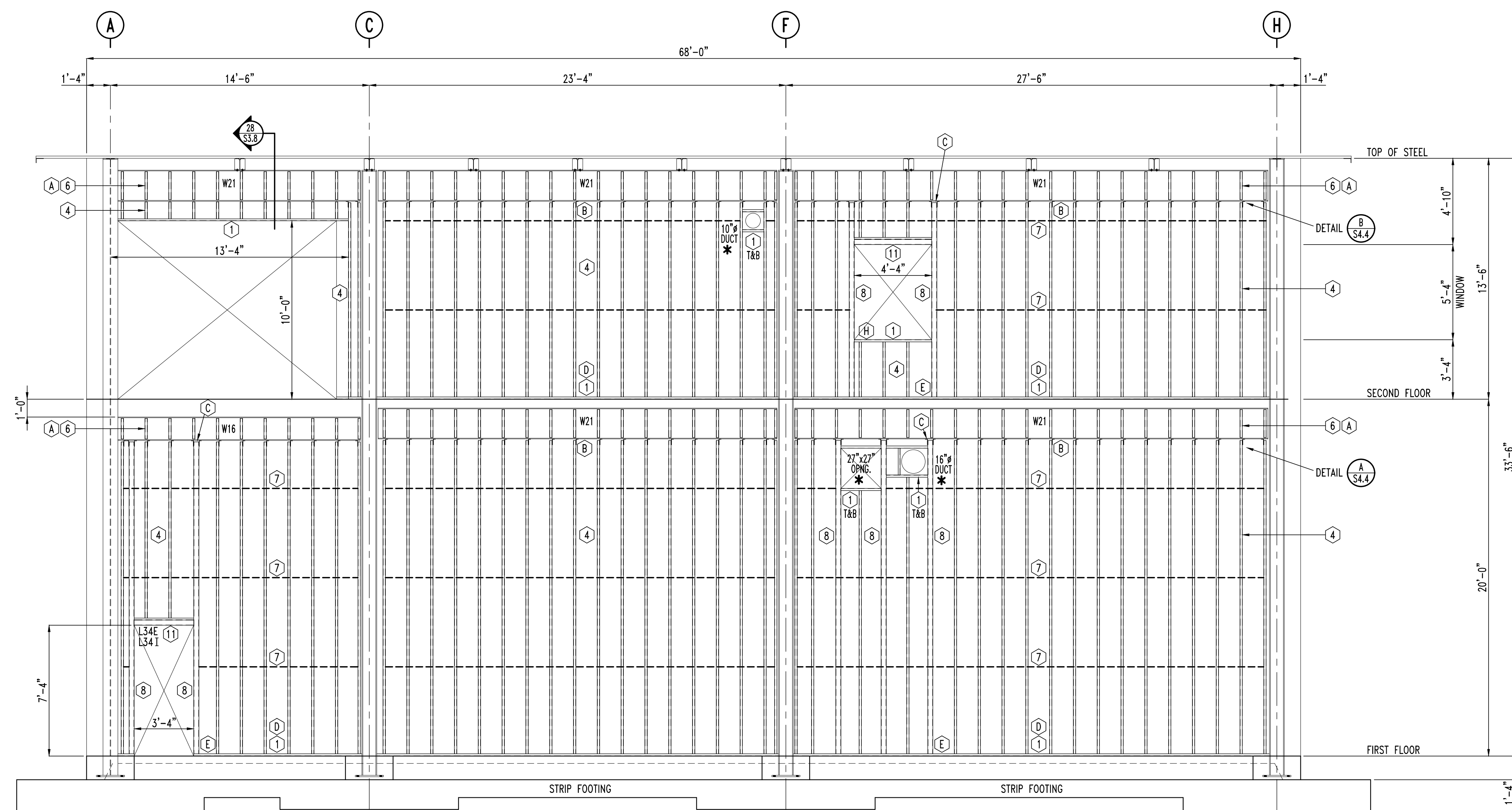
- 1) = 800T125-54 TRACK
- 2) = 800T200-68 TRACK
- 3) = 800SLT250-54 SLOTTED TRACK
- 4) = 800S162-54 STUDS AT 16"o/c
- 5) = 800S162-68 STUDS AT 16"o/c
- 6) = 600S162-54 STUDS AT 16"o/c INFILL AT BEAMS
- 7) = CRC BRACING AT 5'-0"o/c MAX.
- 8) = 800QFJ350-54
- 9) = 800QFJ350-68
- 10) = 800QFJ350-97
- 11) = 800QFH350-54 + 800T125-54
- 12) = 800QFH350-68 + 800T125-54
- 13) = 800QFH350-97 + 800T125-54
- 14) = (2) 800S162-68 + (2) 800T200-68

CONNECTION SCHEDULE

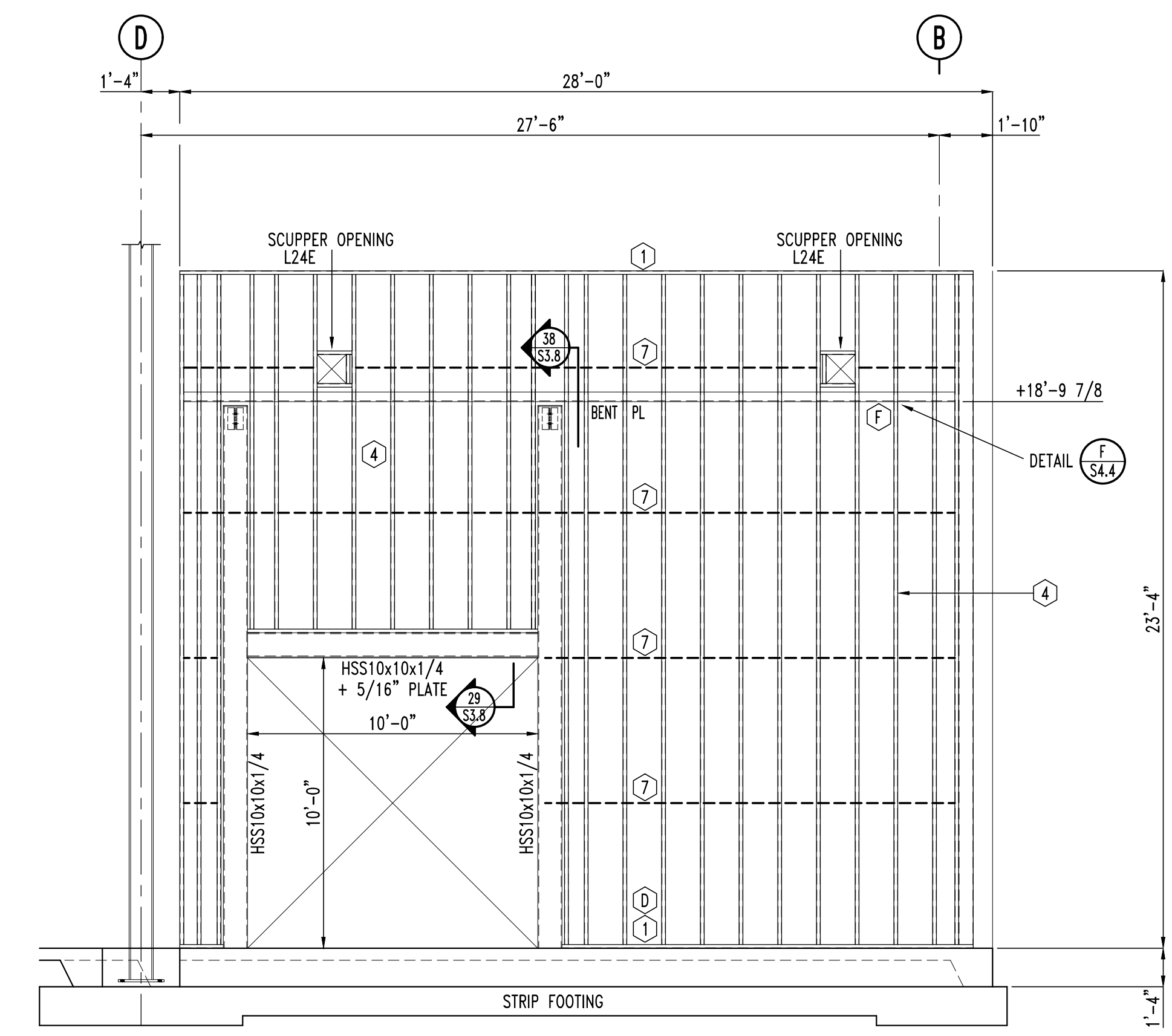
- CLIP DESIGNATIONS ARE BASED ON MARINO-WARE PRODUCT CATALOG
- A) = L4x1 1/2x3 1/4x16GA. CLIP
 - B) = 16GA. 12" LONG OUTRIGGER
 - C) = (2) 16GA. 12" LONG OUTRIGGERS
 - D) = 1/4x2 1/2 TITEN HD SCREW ANCHORS AT 16"o/c ALONG TRACK CENTERLINE
 - E) = RCC600 CLIP CENTERED ON STUD
 - F) = WSC800 SLIDE CLIP
 - G) = SLOTTED TRACK 800SLT250-54
 - H) = 1 1/2x1 1/2x16GA. x 7 1/4" CLIP ANGLE
 - I) = QFC800350 QUICKFRAME CLIP
 - J) = 611000 DEFLEX CLIPS
 - K) = (2) #14 SHOULDERED SCREWS TO STUD
 - L) = (2) #14 SHOULDERED SCREWS TO JAMB SECTION
 - M) = (2) #14 SHOULDERED SCREWS TO STUD
 - N) = (2) #14 SHOULDERED SCREWS TO JAMB SECTION
 - O) = (2) #14 SHOULDERED SCREWS TO STUD
 - P) = (2) #14 SHOULDERED SCREWS TO JAMB SECTION
 - Q) = (2) #14 SHOULDERED SCREWS TO STUD
 - R) = (2) #14 SHOULDERED SCREWS TO JAMB SECTION
 - S) = (2) #14 SHOULDERED SCREWS TO STUD
 - T) = (2) #14 SHOULDERED SCREWS TO JAMB SECTION
 - U) = (2) #14 SHOULDERED SCREWS TO STUD
 - V) = (2) #14 SHOULDERED SCREWS TO JAMB SECTION
 - W) = (2) #14 SHOULDERED SCREWS TO STUD
 - X) = (2) #14 SHOULDERED SCREWS TO JAMB SECTION
 - Y) = (2) #14 SHOULDERED SCREWS TO STUD
 - Z) = (2) #14 SHOULDERED SCREWS TO JAMB SECTION



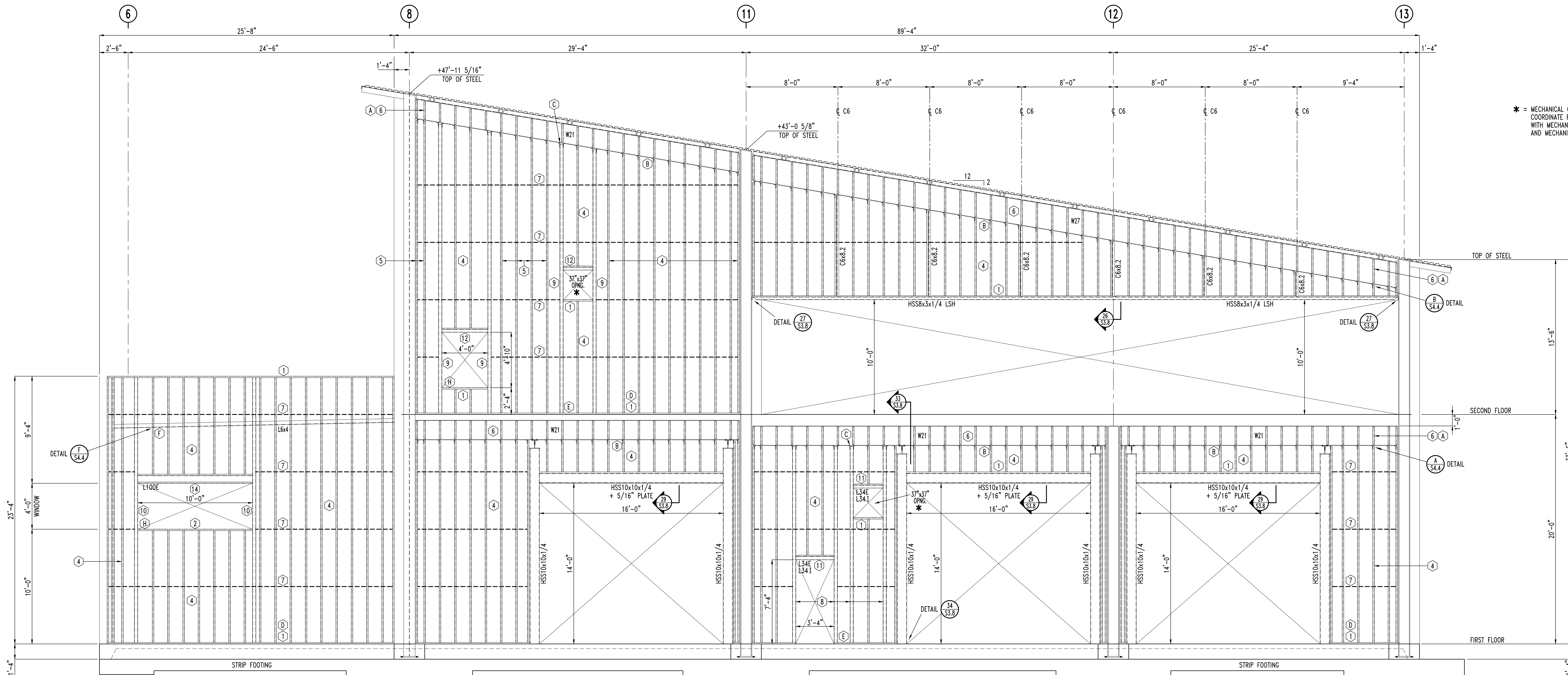
ISSUE SCHEDULE	DATE	REFERENCE
A	4/10/24	CONSTRUCTION SET



GRID LINE '13'
NORTH WALL FRAMING ELEVATION
 SCALE: 1/4" = 1'-0"

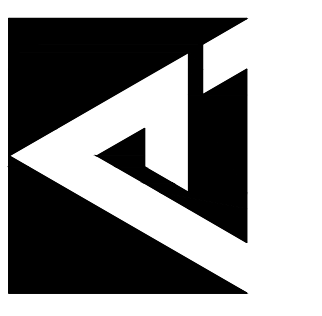


GRID LINE '6'
SOUTH WALL FRAMING ELEVATION
 SCALE: 1/4" = 1'-0"

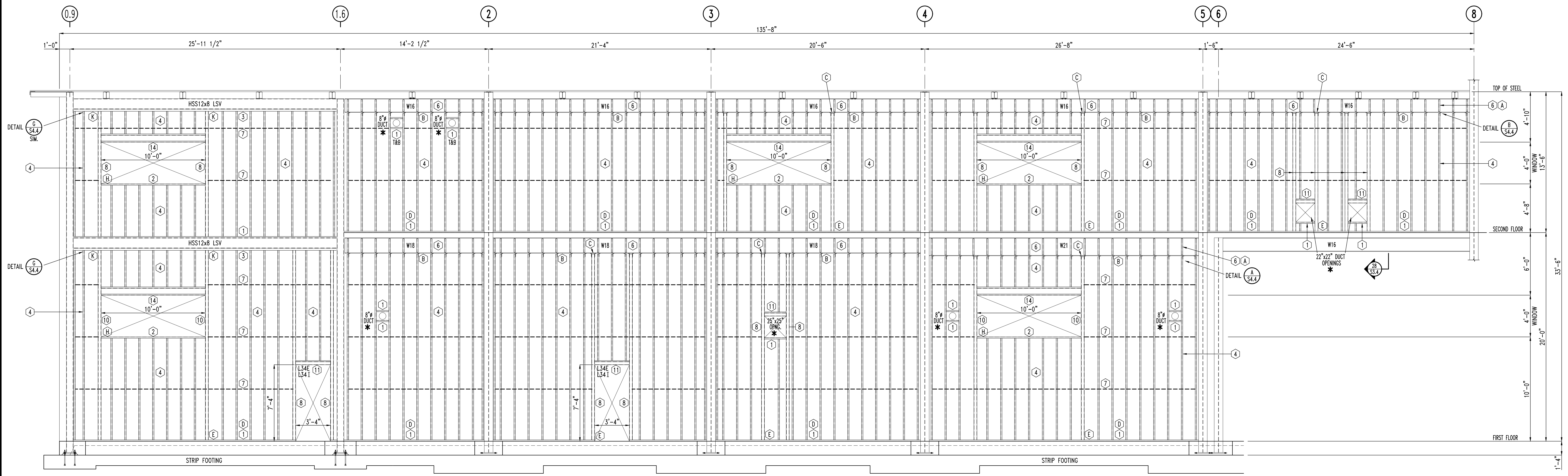


GRID LINE 'A'
EAST WALL FRAMING ELEVATION
 SCALE: 1/4" = 1'-0"

* = MECHANICAL OPENING
 COORDINATE FINAL SIZE AND LOCATION
 WITH MECHANICAL DRAWINGS
 AND MECHANICAL CONTRACTOR



ISSUE	DATE	REFERENCE
A	4/10/2024	CONSTRUCTION SET

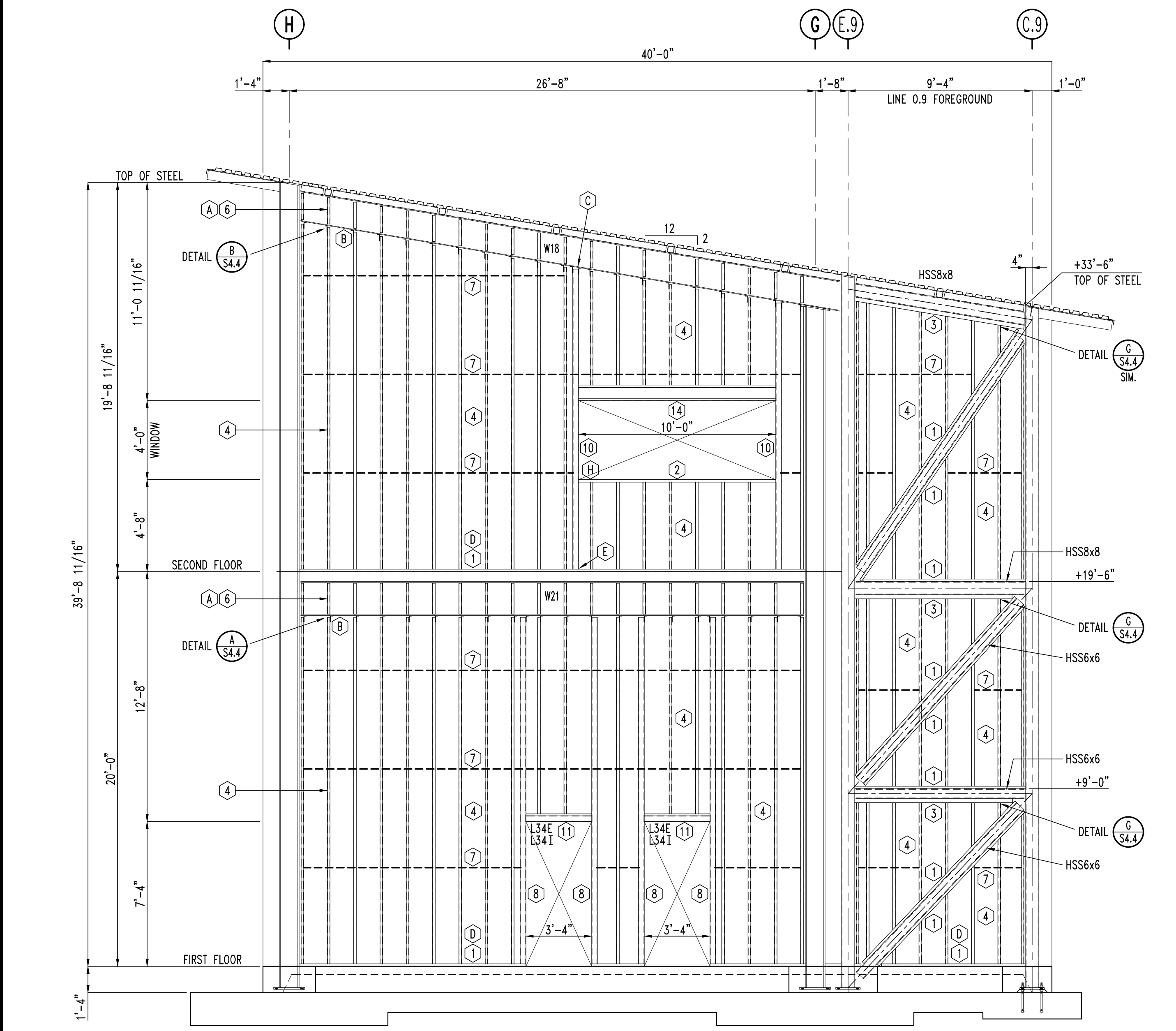
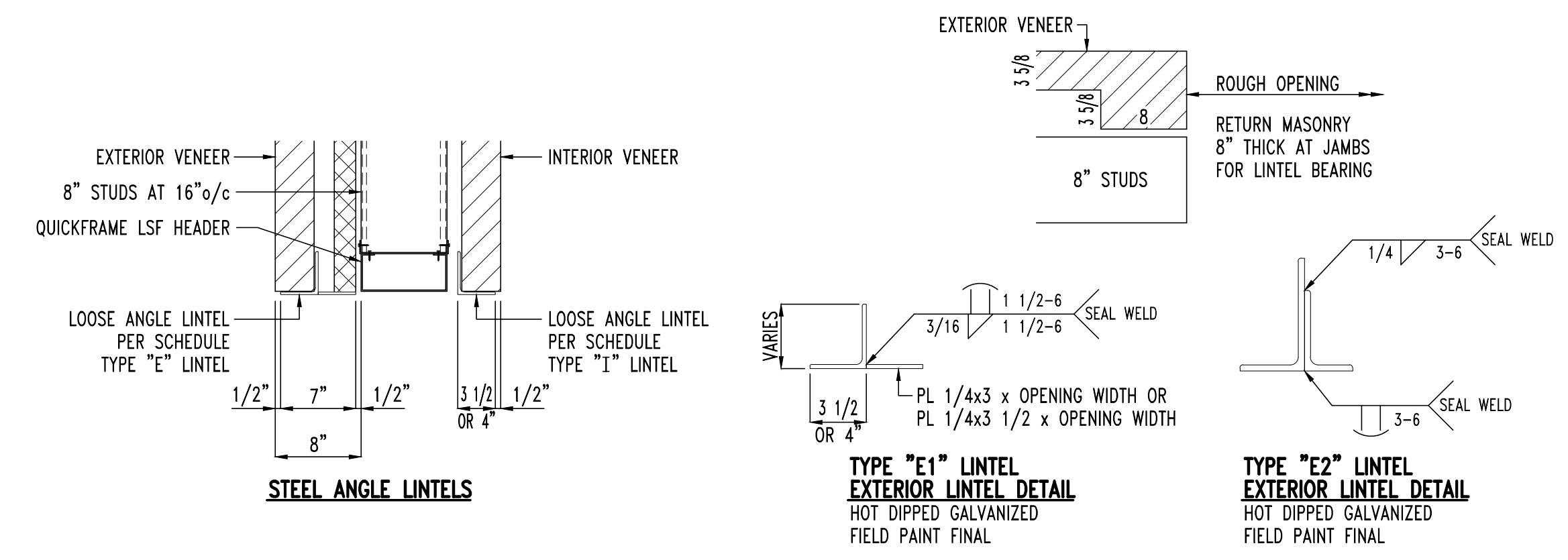


GRID LINE '0'
EAST WALL FRAMING ELEVATION
 SCALE: 1/4" = 1'-0"

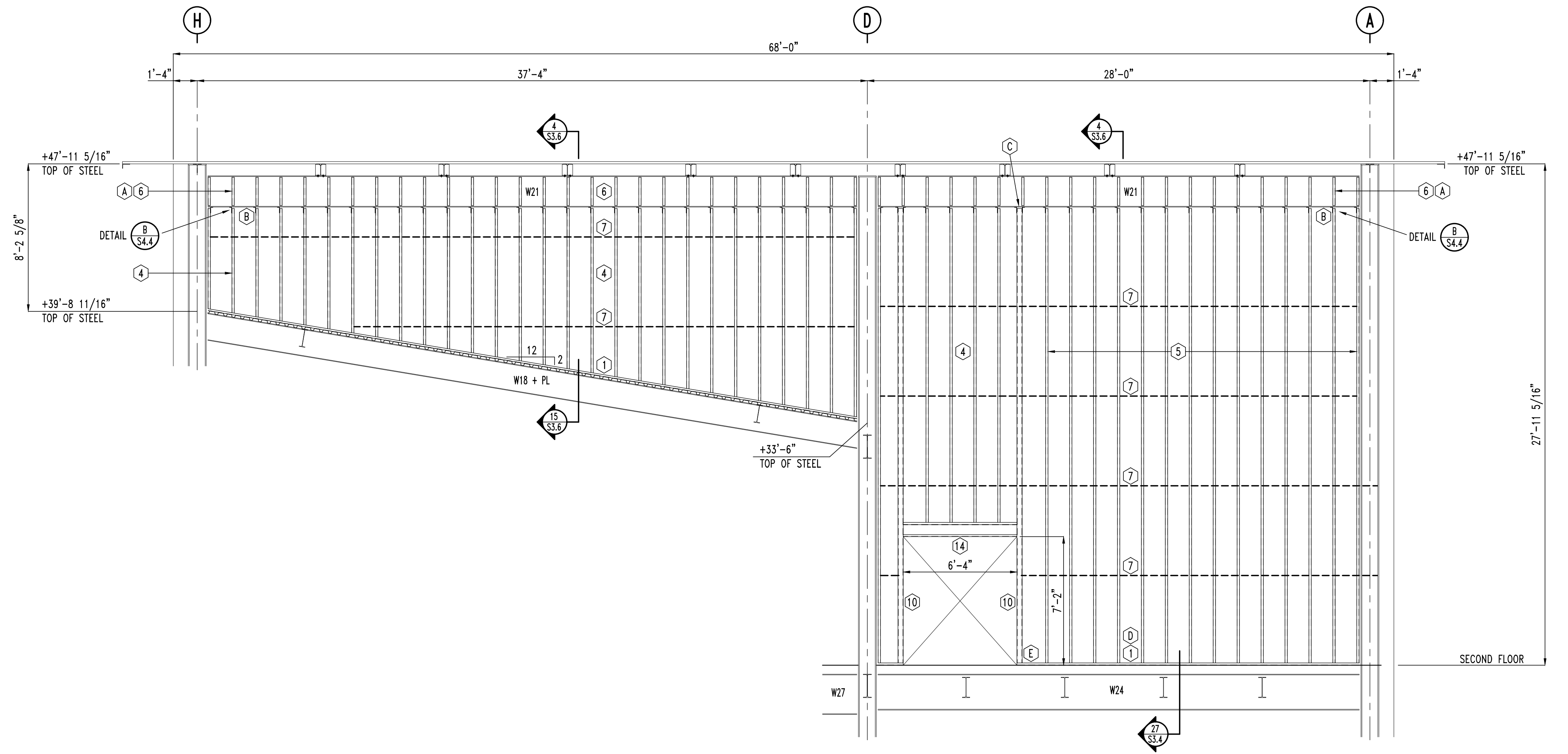
* = MECHANICAL OPENING
 COORDINATE FINAL SIZE AND LOCATION
 WITH MECHANICAL DRAWINGS
 AND MECHANICAL CONTRACTOR

LOOSE ANGLE LINTEL SCHEDULE			
MARK	MASONRY OPENING	LINTEL TYPE	LINTEL SIZE
L34E	≤ 3'-4"	E1	L4x3 1/2x1/4 LLV + PL 1/4x3 1/2
L34I	≤ 3'-4"	I	L4x3 1/2x1/4 LLV
L44E	4'-4"	E1	L4x3 1/2x1/4 LLV + PL 1/4x3 1/2
L44I	4'-4"	I	L4x3 1/2x1/4 LLV
L88E	8'-8"	E1	L6x4x3/8 LLV + PL 1/4x3
L100E	10'-0"	E2	L7x4x3/8 LLV + L5x3x3/8 LLV
L100I	10'-0"	I	L6x4x3/8 LLV

- BEAR LINTELS 8" EACH END
 - TYPE "I" INTERIOR LINTELS TO BE SHOP PRIMED
 - TYPE "E1" & "E2" EXTERIOR LINTELS TO BE HOT DIPPED GALVANIZED

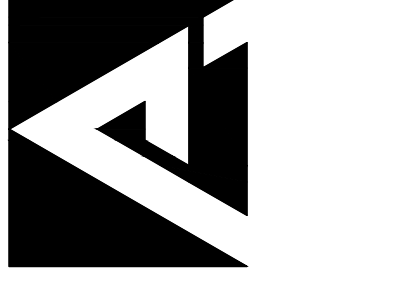
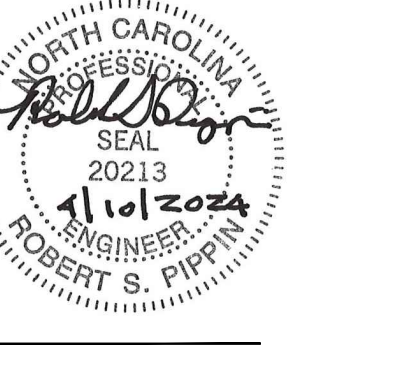


GRID LINE '1'
SOUTH WALL FRAMING ELEVATION
 SCALE: 1/4" = 1'-0"

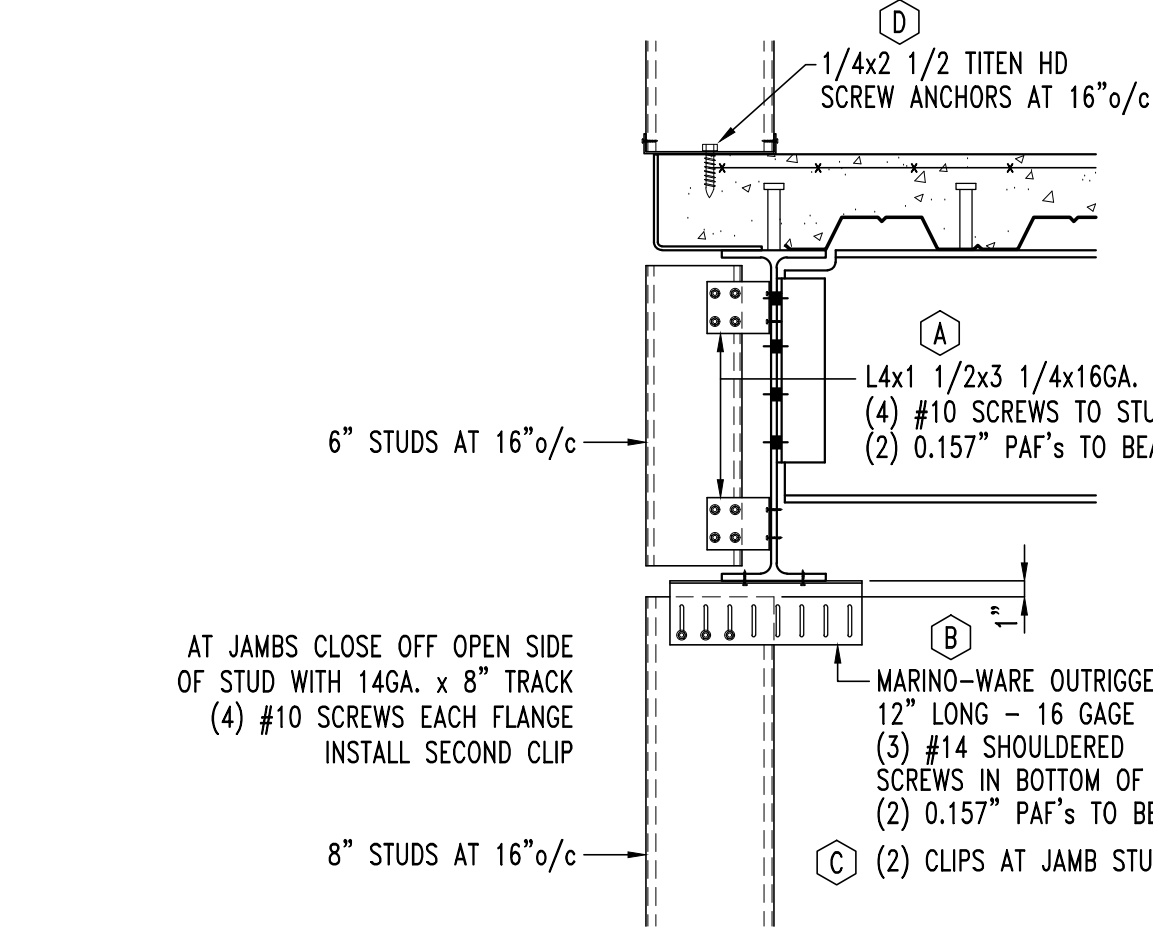


GRID LINE '8'
SOUTH WALL FRAMING ELEVATION
 SCALE: 1/4" = 1'-0"

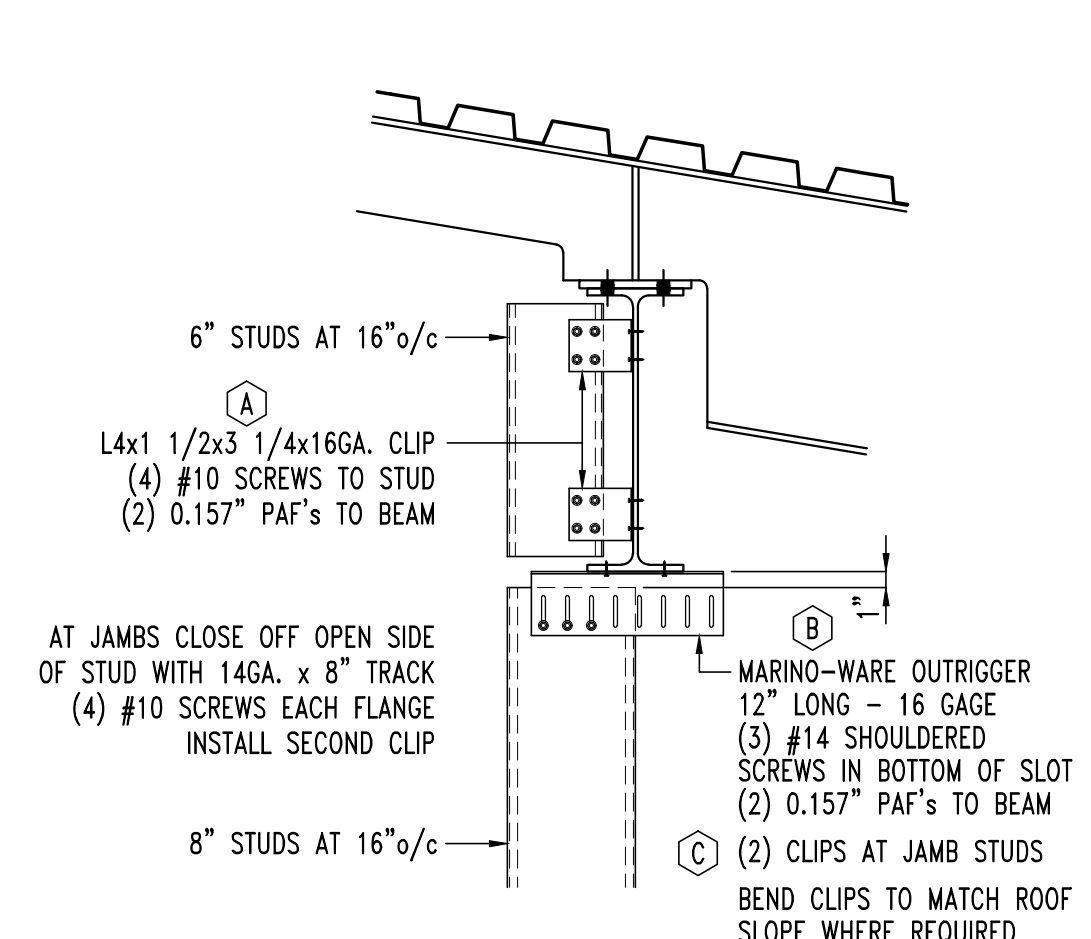
- REFER TO S4.1 FOR LIGHT STEEL FRAMING MEMBER AND CONNECTION SCHEDULES
 - REFER TO S4.4 FOR LIGHT STEEL FRAMING NOTES.



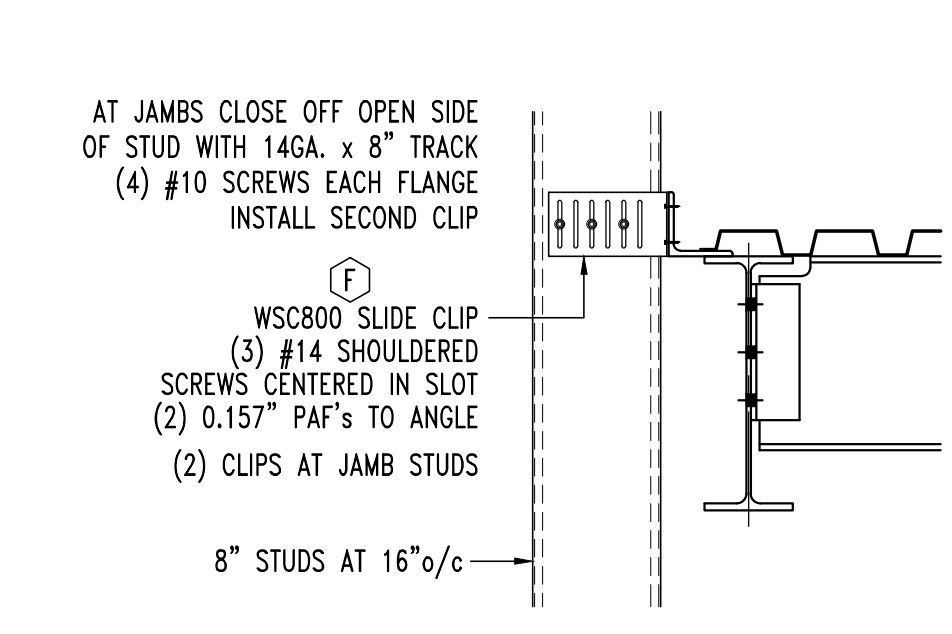
ISSUE SCHEDULE	DATE	REFERENCE
A	4/10/2024	CONSTRUCTION SET



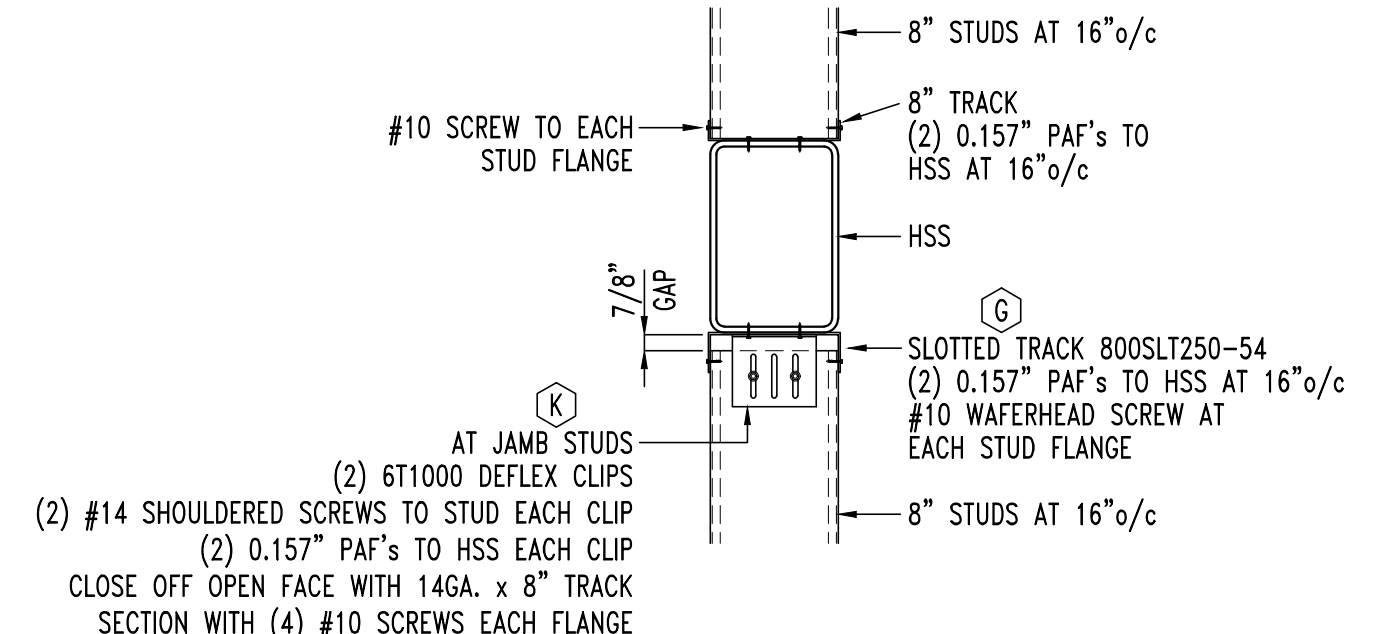
STUD TO BEAM CONNECTION DETAIL
SCALE: 1" = 1'-0"



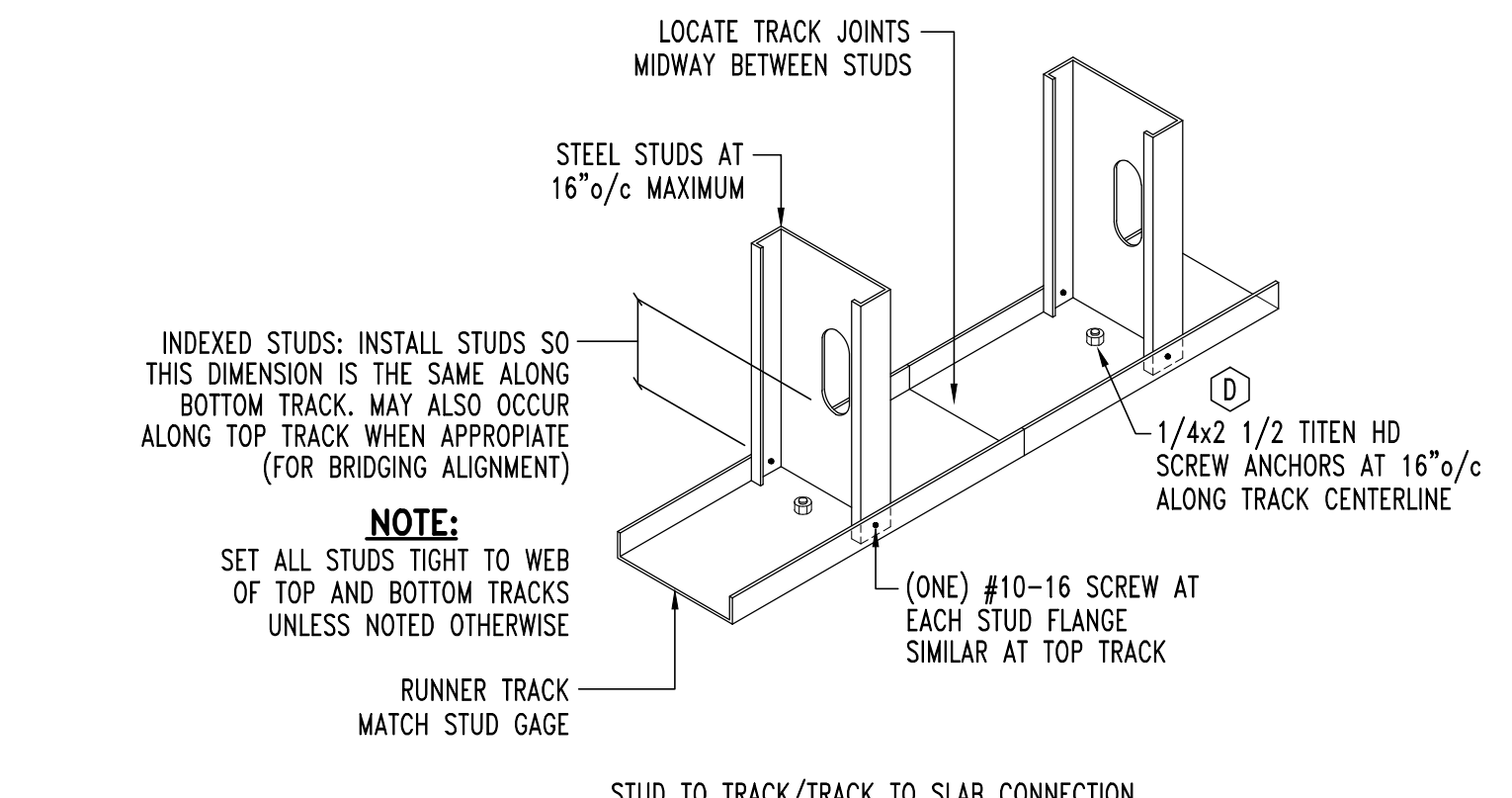
STUD TO BEAM CONNECTION DETAIL
SCALE: 1" = 1'-0"



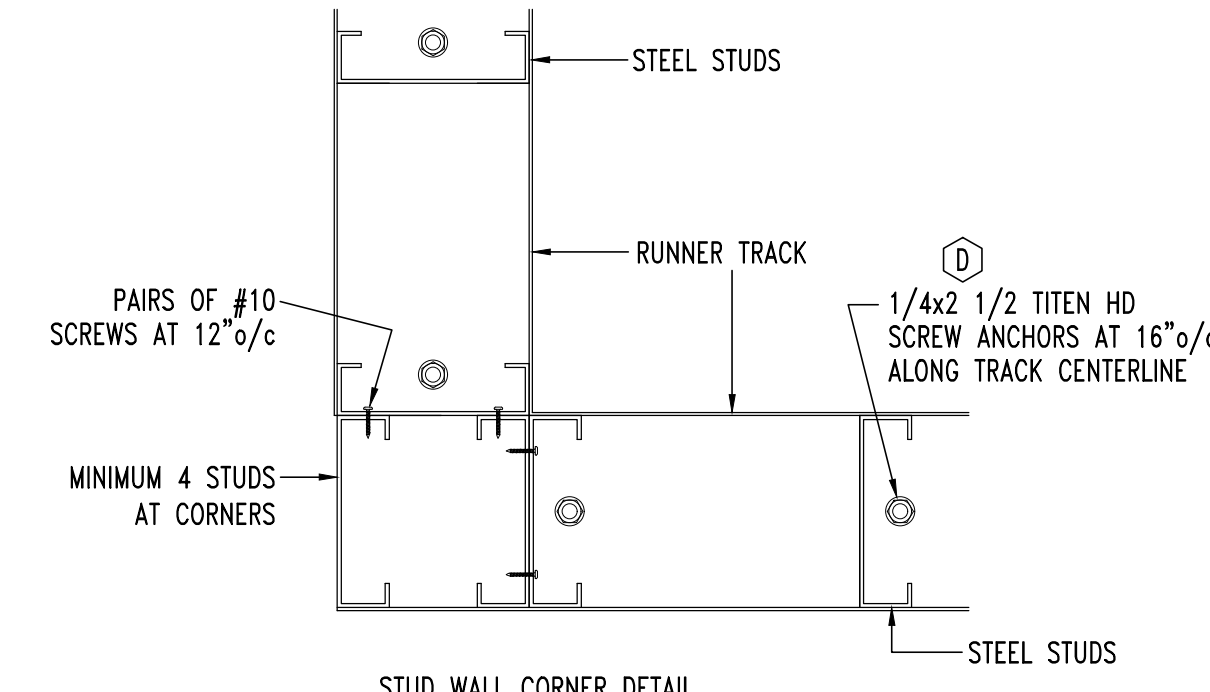
STUD TO BEAM CONNECTION DETAIL
SCALE: 1" = 1'-0"



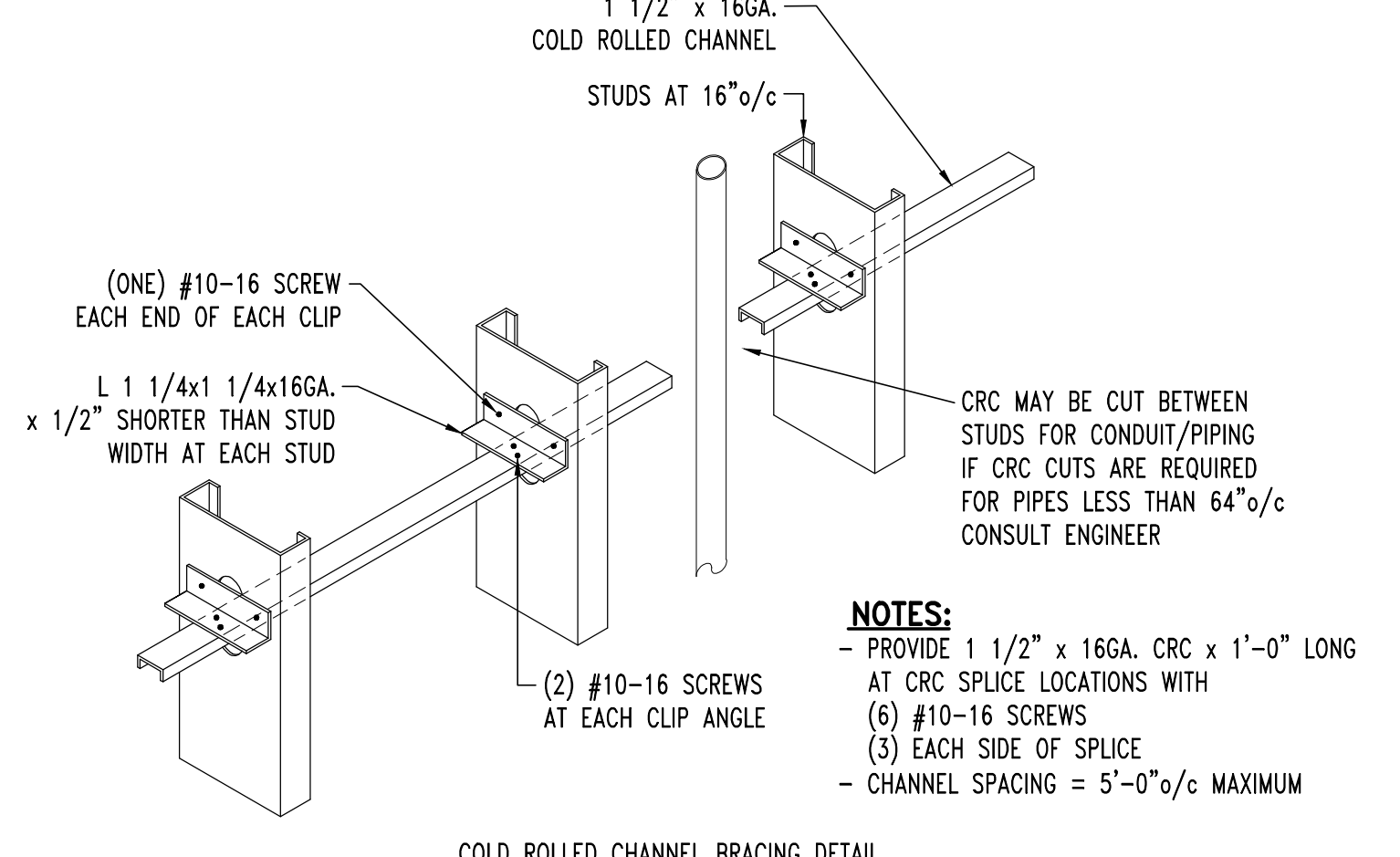
STUD TO BEAM CONNECTION DETAIL
SCALE: 1" = 1'-0"



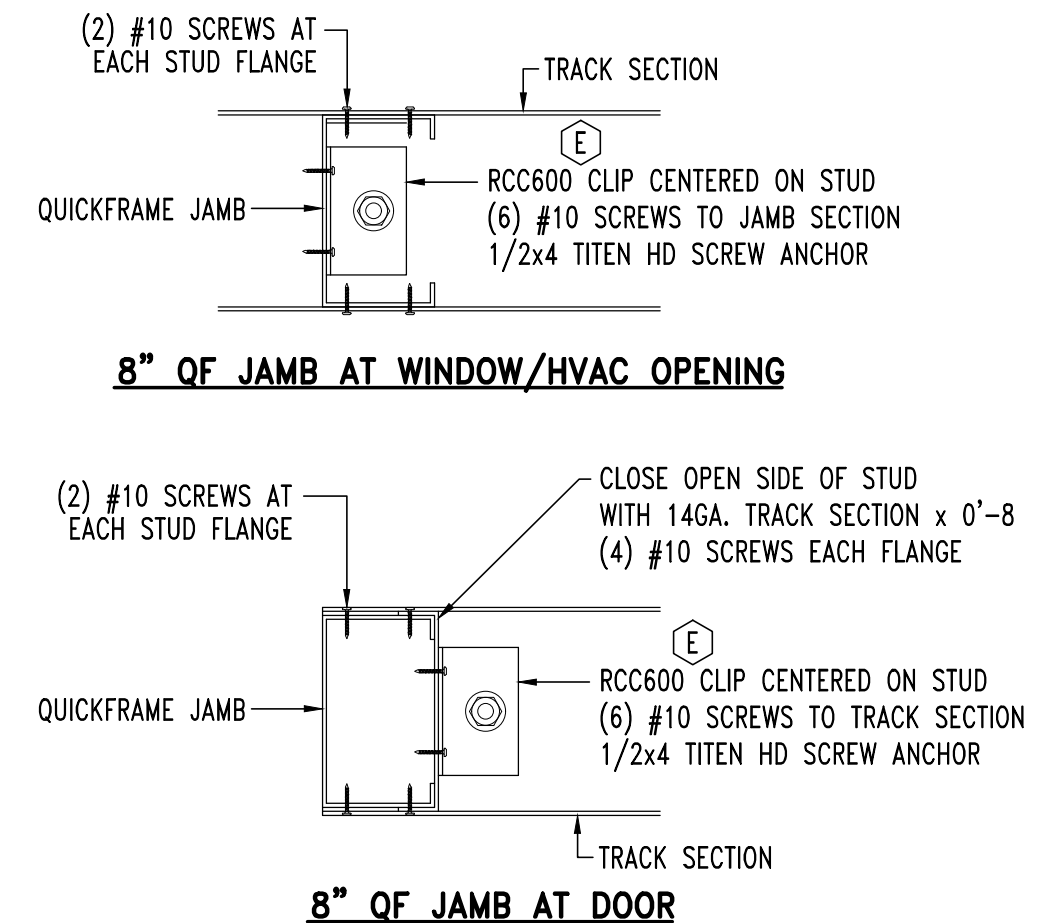
STUD TO TRACK/TRACK TO SLAB CONNECTION LSF FRAMING DETAIL
SCALE: NONE



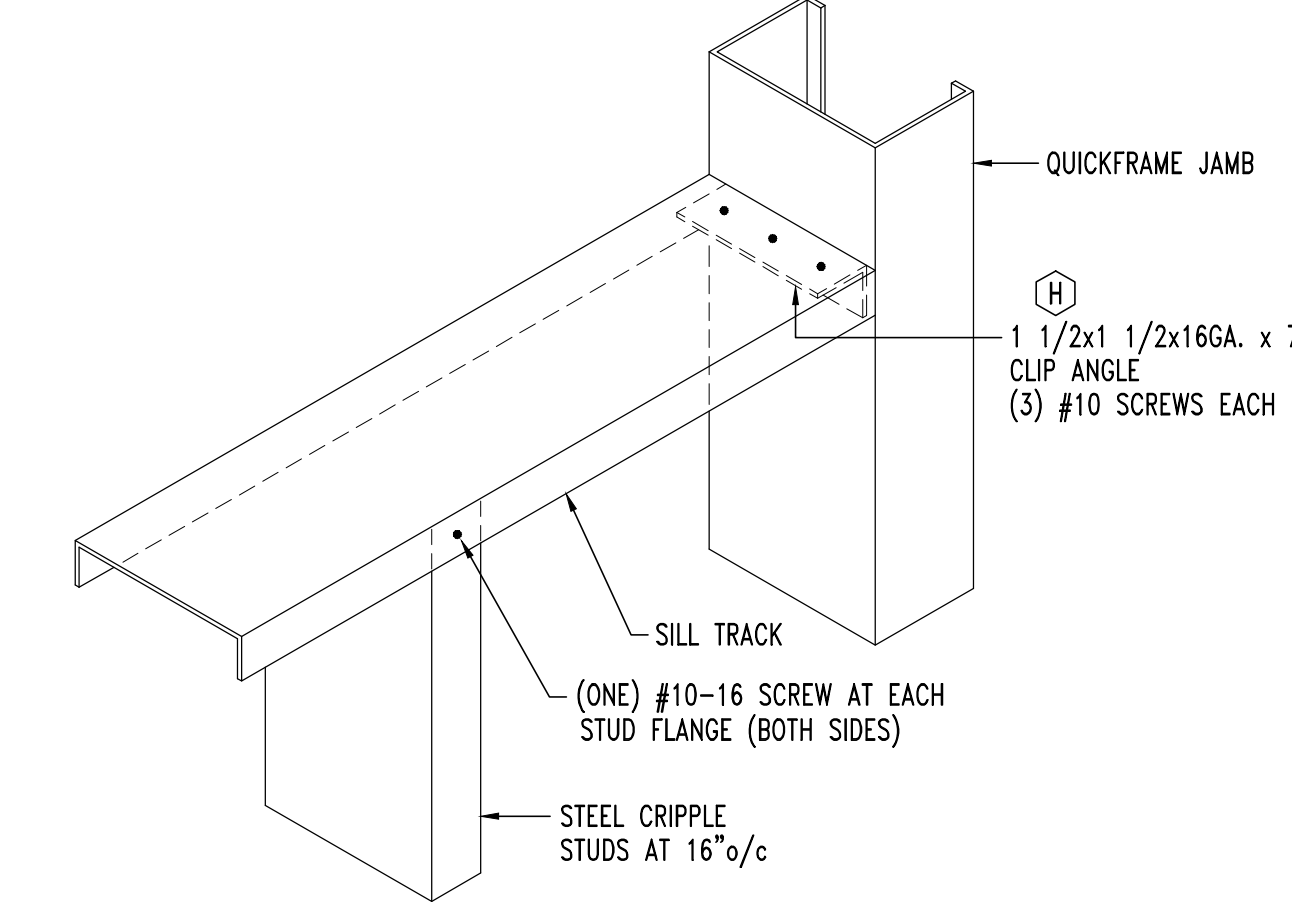
STUD WALL CORNER DETAIL LSF FRAMING DETAIL
SCALE: NONE



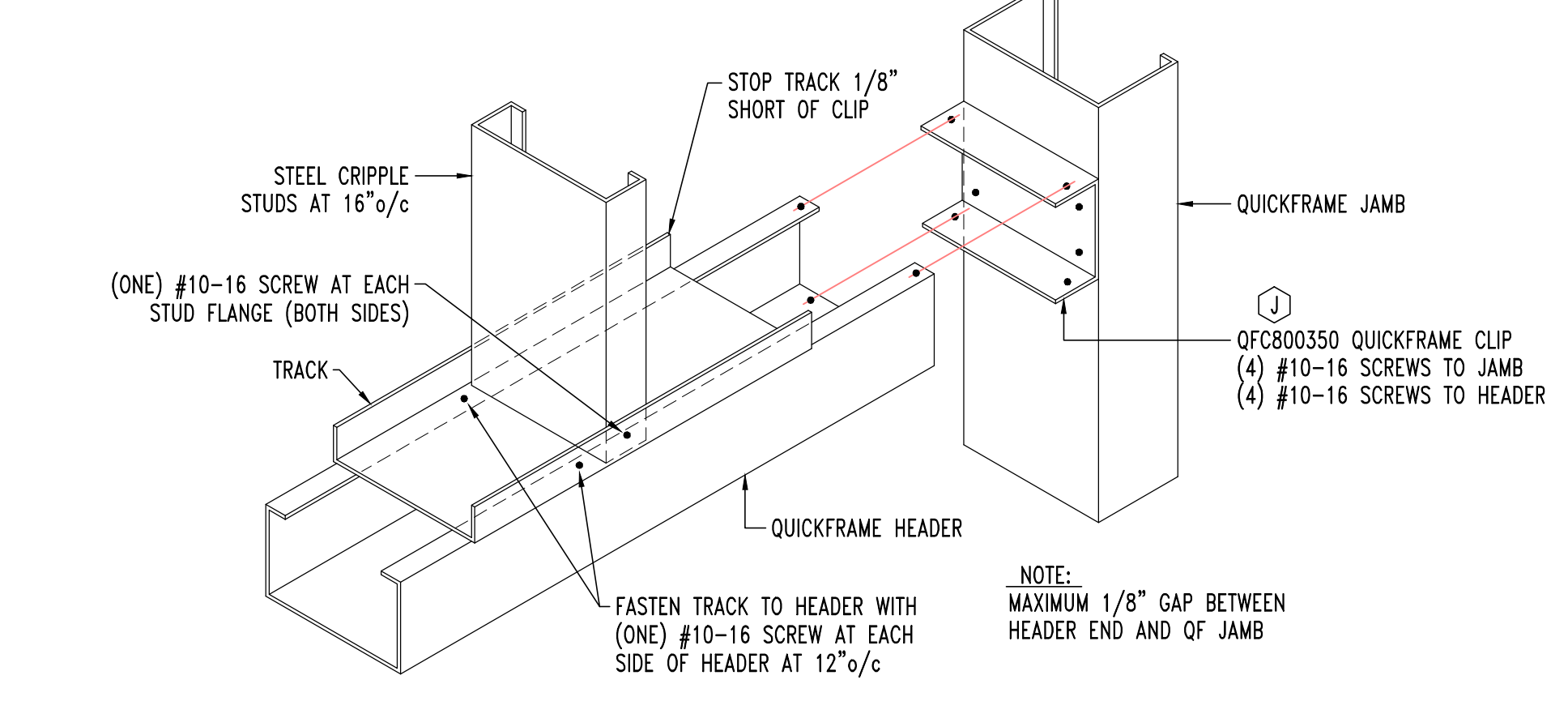
COLD ROLLED CHANNEL BRACING DETAIL LSF FRAMING DETAIL
SCALE: NONE



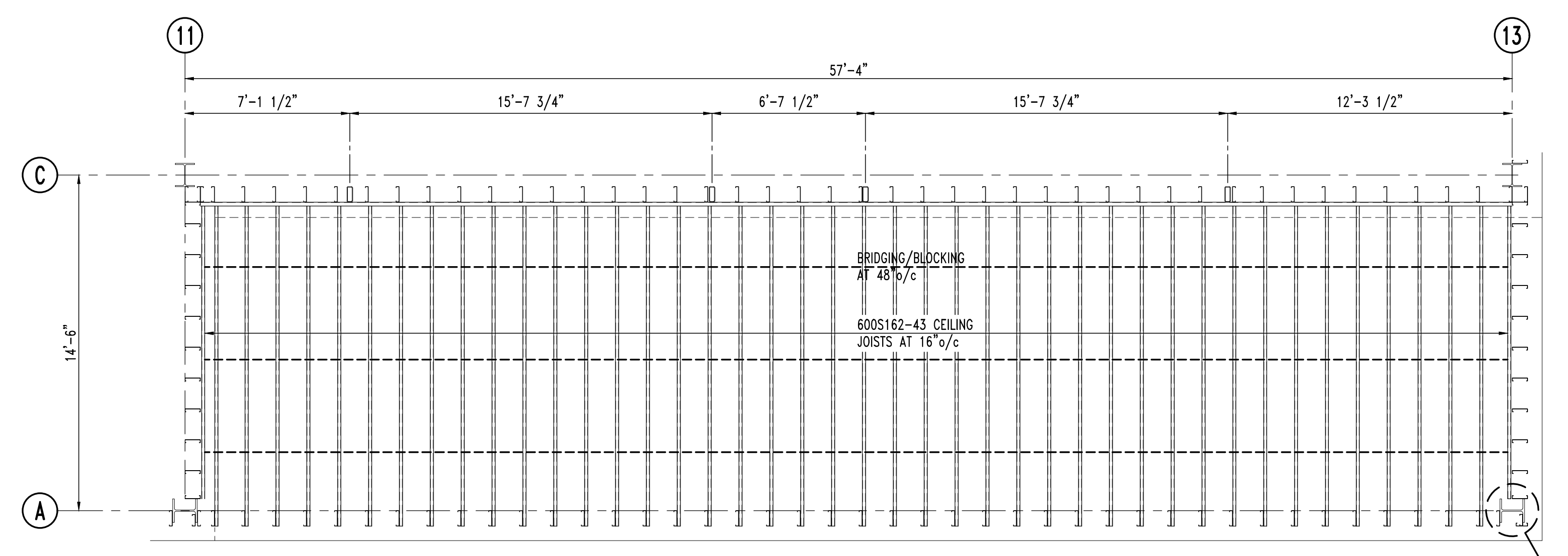
8" OF JAMB AT WINDOW/HVAC OPENING LSF FRAMING DETAIL
SCALE: NONE



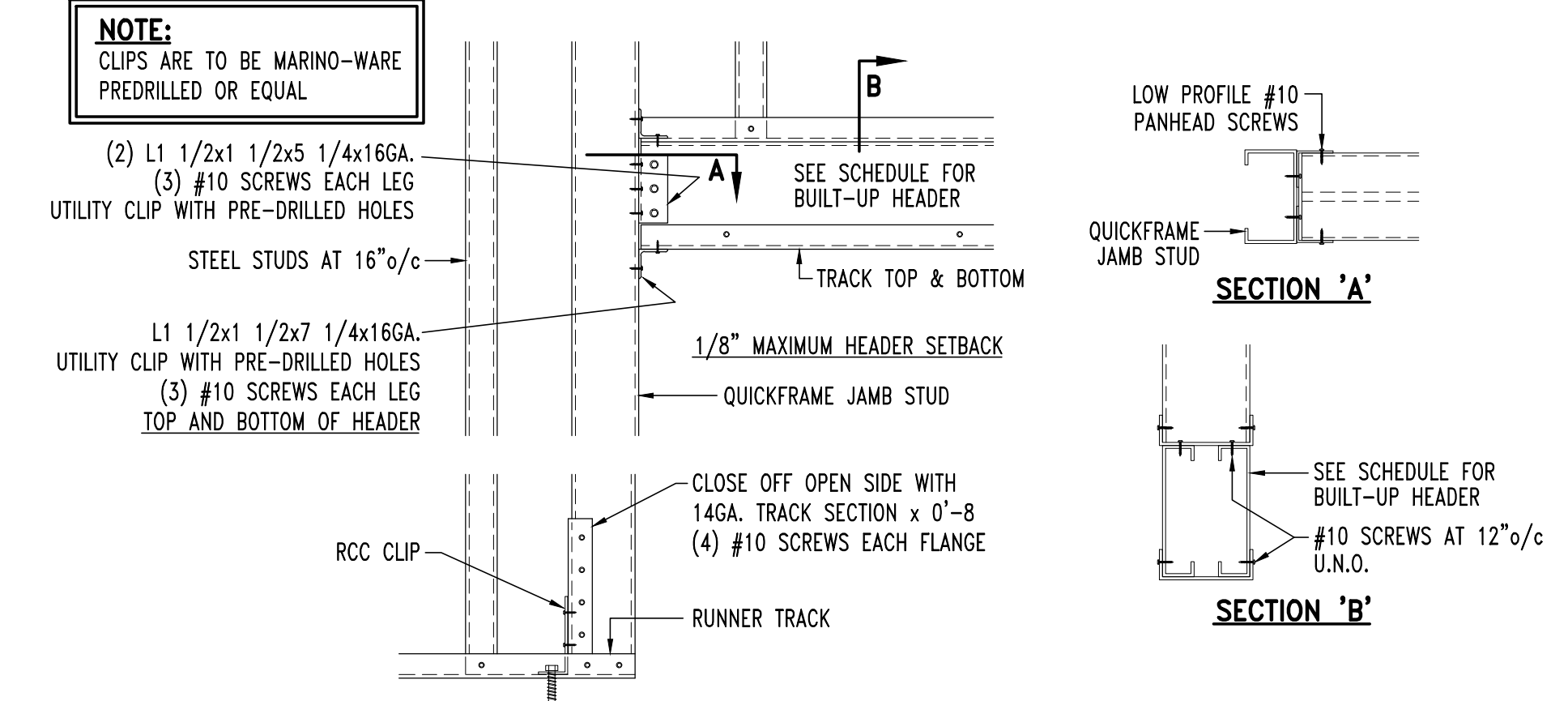
SILL CONNECTION DETAIL LSF FRAMING DETAIL
SCALE: NONE



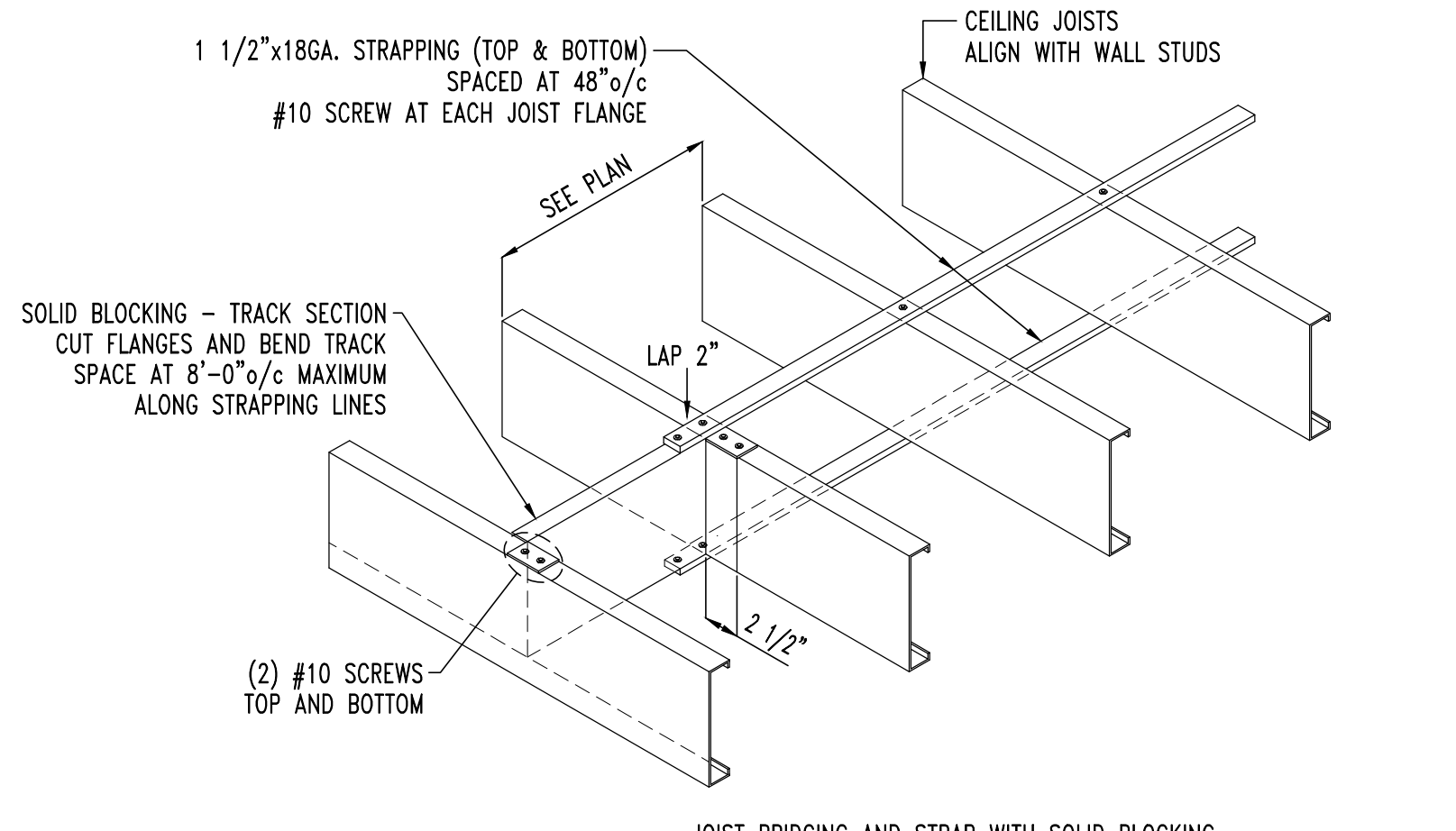
OF HEADER CONNECTION DETAIL LSF FRAMING DETAIL
SCALE: NONE



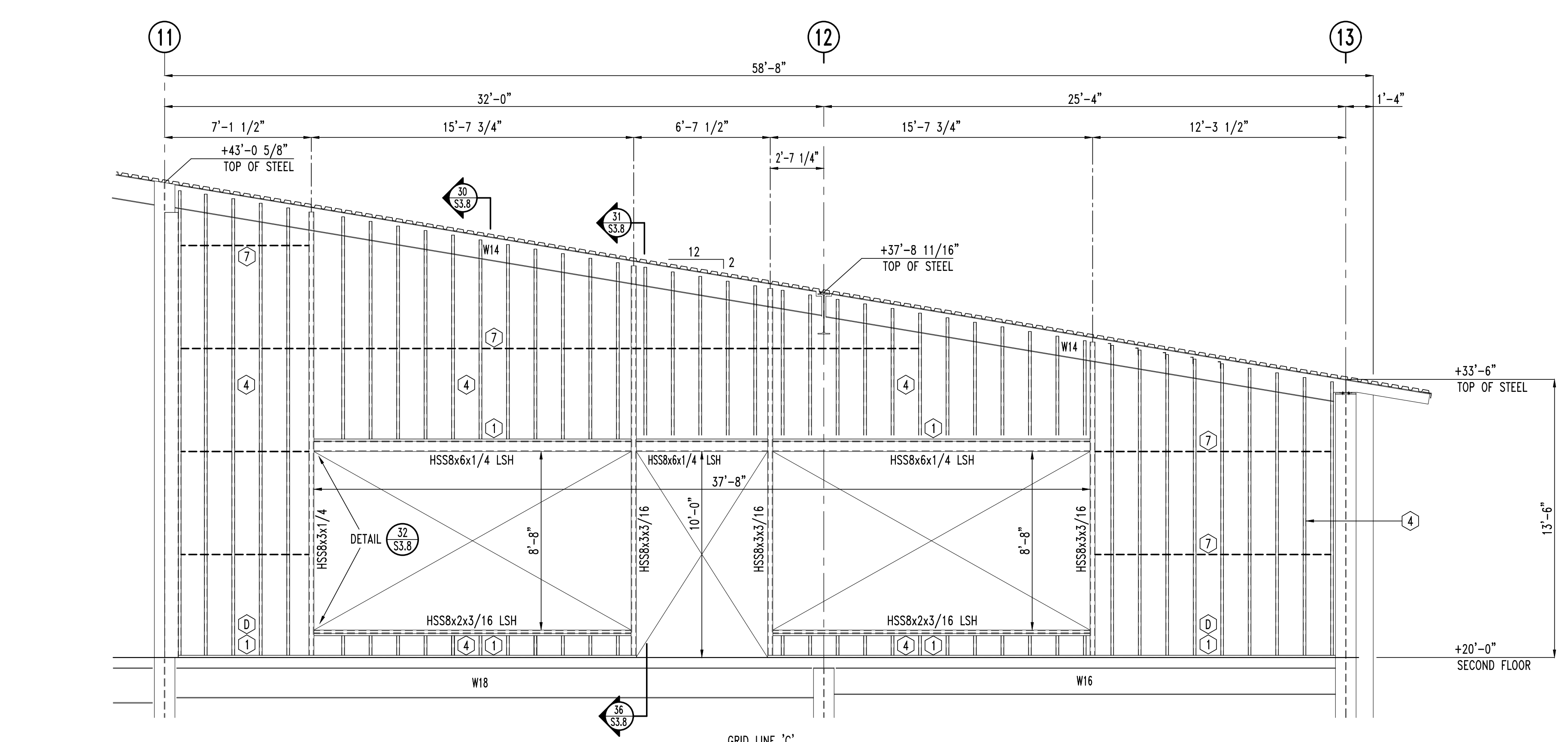
CEILING FRAMING PLAN OVER BALCONY
SCALE: 1/4" = 1'-0"



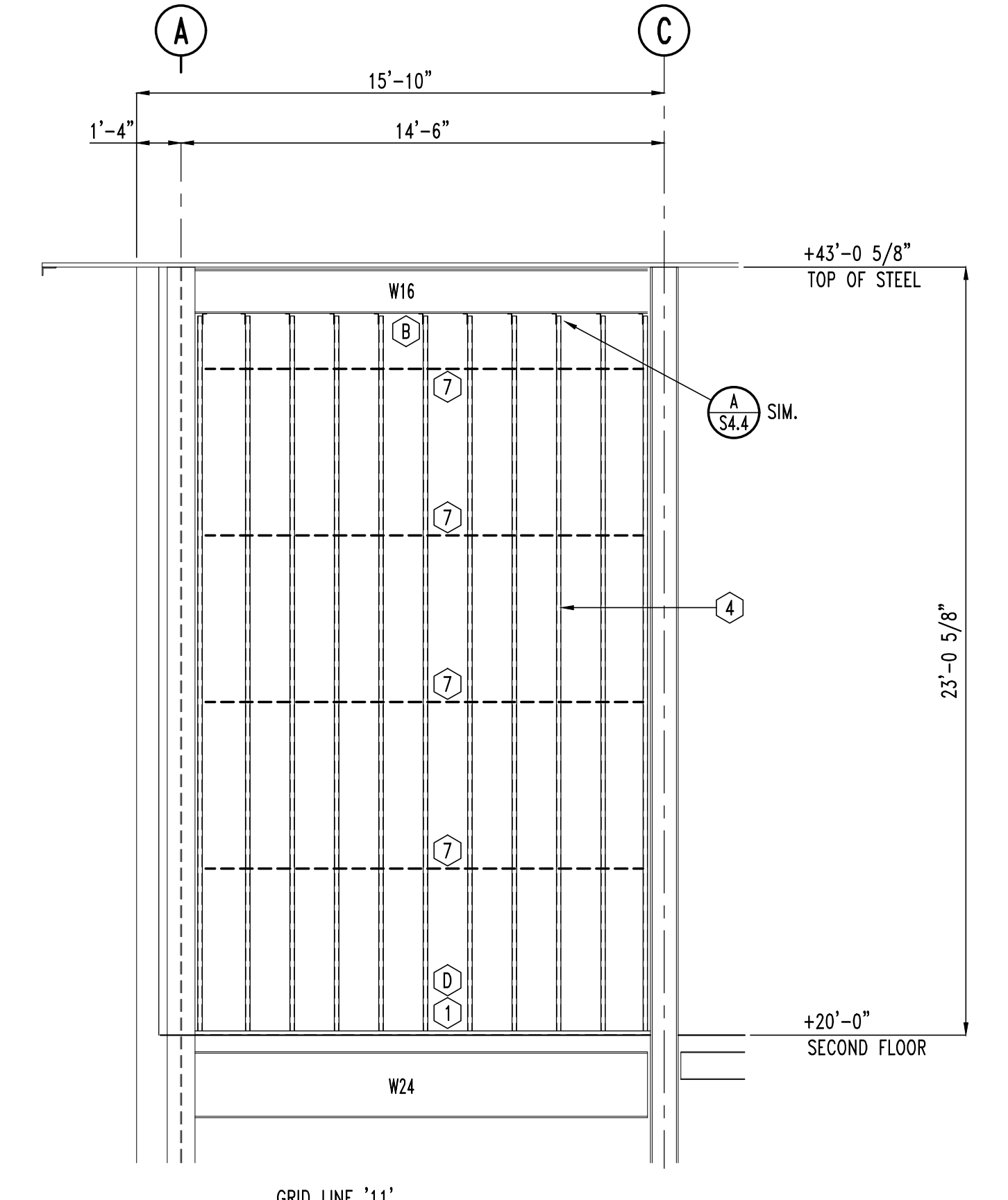
HEADER/JAMB CONNECTION DETAILS LSF FRAMING DETAIL
SCALE: NONE



JOIST BRIDGING AND STRAP WITH SOLID BLOCKING LSF FRAMING DETAIL
SCALE: NONE

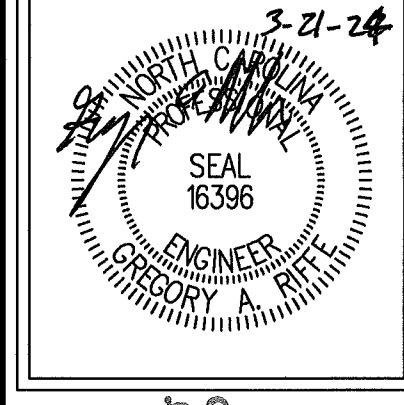
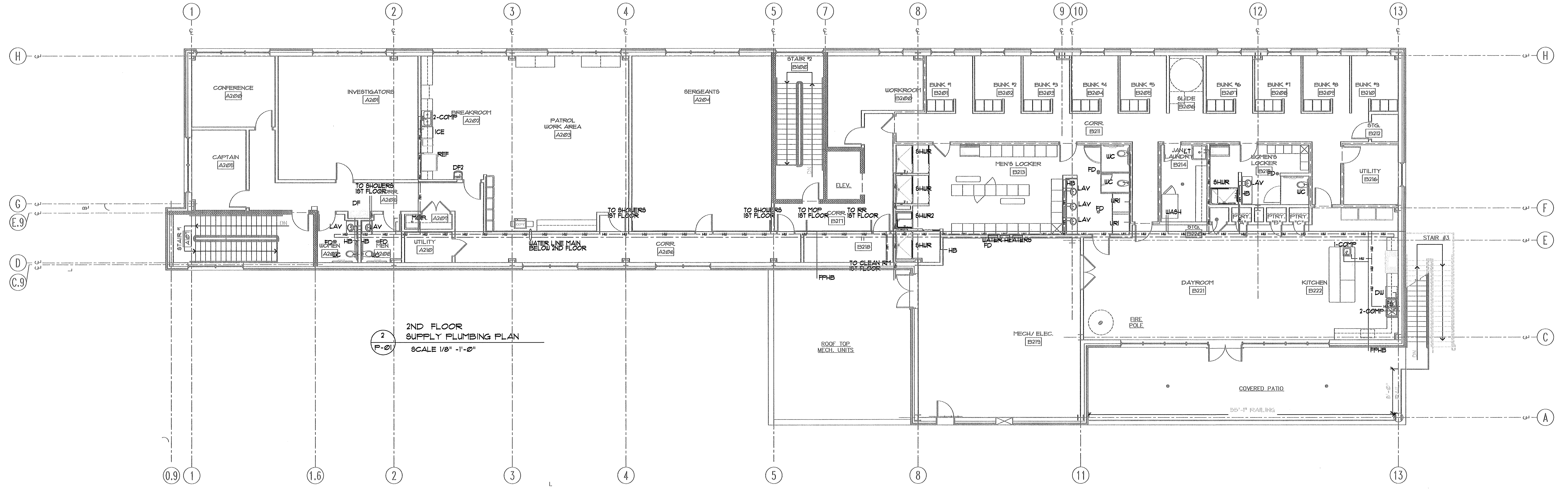
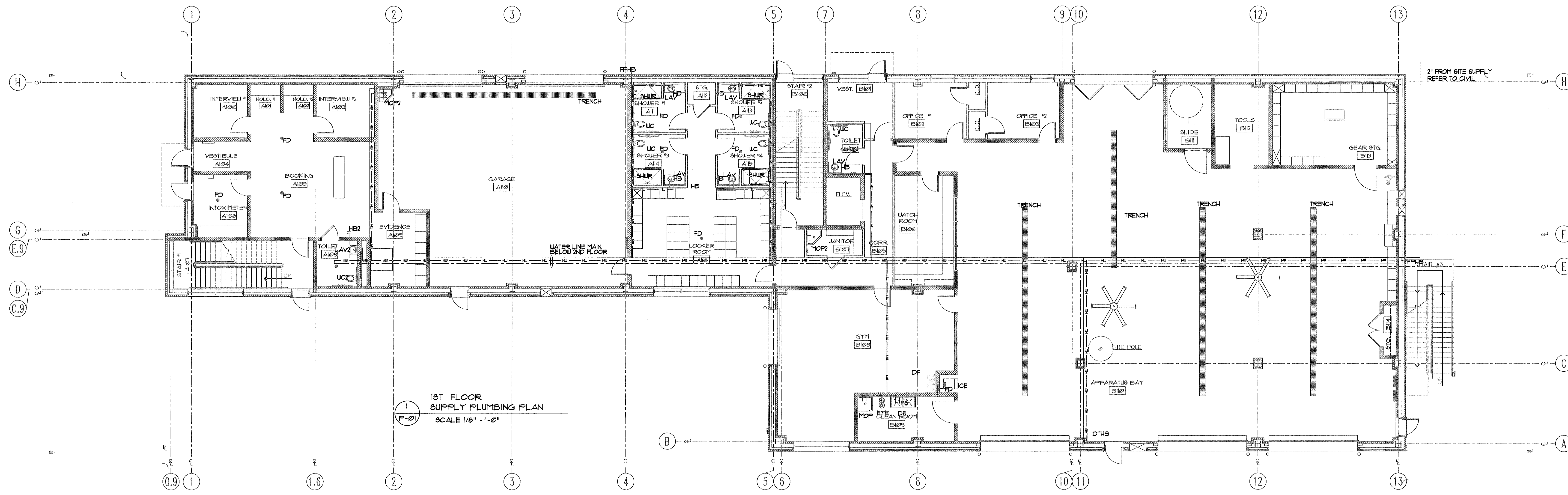


EAST WALL FRAMING ELEVATION
SCALE: 1/4" = 1'-0"



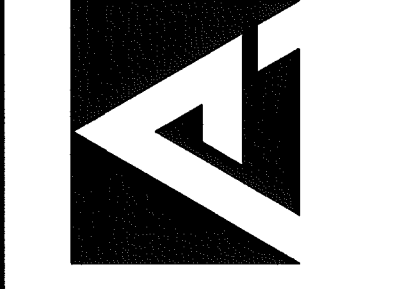
NORTH WALL FRAMING ELEVATION
SCALE: 1/4" = 1'-0"

- LIGHT STEEL FRAMING NOTES:**
- EXTERIOR STUD SIZES BASED UPON 120 MPH EXPOSURE C WIND LOADS [ASCE 7-10].
 - F_y=33KSI FOR 16GA. AND LIGHTER, F_y=50KSI FOR 16GA. AND HEAVIER.
 - VERIFY ROUGH OPENING HEIGHTS/WIDTHS WITH THE ARCHITECTURAL DRAWINGS.
 - ALLOW FOR WOOD NAILERS AT ROUGH OPENINGS PER ARCHITECTURAL DETAILS.
 - WINDOW SUPPLIER IS TO INCLUDE CONNECTION DETAILS TO WALL FRAMING. INCLUDE WITH SHOP DRAWING SUBMITTAL.
 - CLIP DESIGNATIONS ARE BASED ON MARINO-WARE PRODUCT CATALOG. IF ALTERNATE CLIPS ARE PREFERRED, SUBMIT FOR APPROVAL.
 - REFER TO THE ARCHITECTURAL DRAWINGS FOR WALL SHEATHING, WATER BARRIER AND INSULATION SPECIFICATIONS.
 - EXTERIOR MASONRY VENEER WALL TIES ARE TO BE H&B X-SEAL ANCHORS (H&B) INSTALLED ON 16" o/c SPACING. FASTEN TO STUDS WITH (2) #10 SCREWS PER ANCHOR. INSTALL X-SEAL TAPE. IF ALTERNATE TIES ARE PREFERRED, SUBMIT FOR APPROVAL.
 - INTERIOR MASONRY VENEER WALL TIES ARE TO BE H&B DW-10HS ANCHORS (14GA. HDG) INSTALLED ON 16" o/c SPACING. FASTEN TO STUDS WITH (2) #10 SCREWS PER ANCHOR. IF ALTERNATE TIES ARE PREFERRED, SUBMIT FOR APPROVAL.
 - CONNECTION DESIGN OF INSULATED METAL PANELS TO GIRTS IS BY THE IMP SUPPLIER. SUBMIT CONNECTION DETAILS FOR APPROVAL.
 - GIRT DESIGN AND CONNECTION TO STUDS IS BY THE GIRT SUPPLIER. G.C. TO FACILITATE COORDINATION BETWEEN IMP SUPPLIER AND FURRING SUPPLIER.



GAR Engineering
 P.O. BOX 264, HARRISBURG, NC 28075
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 NC PROFESSIONAL ENGINEER LICENSE NUMBER C-1331

PINNACLE ARCHITECTURE PROFESSIONAL ASSOCIATION
 P.O. BOX 181, 455 TEAR ROAD, SUITE 202, MATTHEWS, NORTH CAROLINA 28106
 PHONE: (704) 841-9833 FAX: (704) 841-9833



D.R. REYNOLDS COMPANY, INC.
 7800 REYNOLDS ROAD, WOOD BRIDGE, NC 27159
 STAIR, MECHANICAL, PLUMBING, ETC. 066
 (910) 428-1586

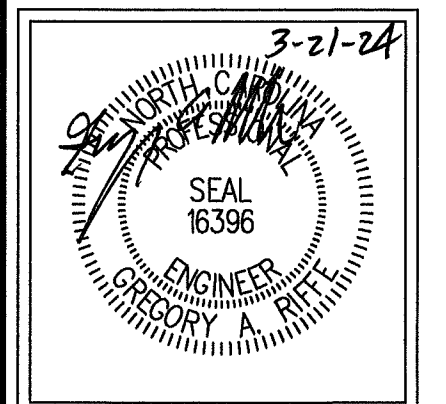
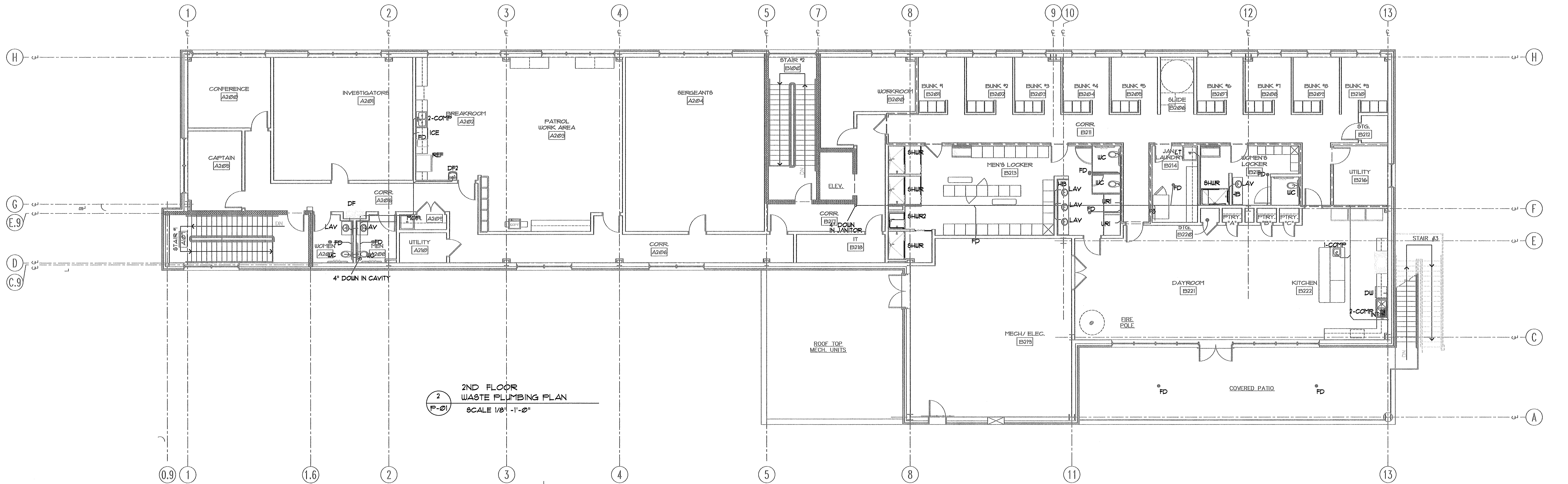
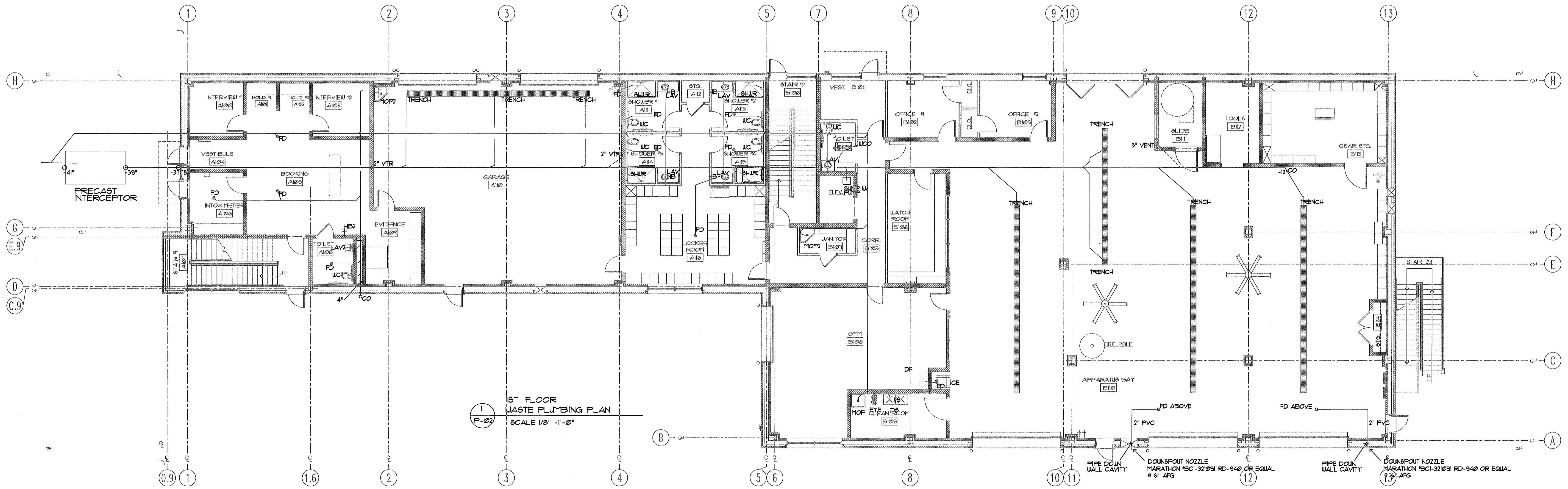
ISSUE DATE: 11.30.23
 DRAWN BY: RWH
 CHECKED BY: GAR
 PROJECT: 2324

**CONCORD FIRE STATION NO. 6
 DAVID DISTRICT - NEW FACILITY
 CONCORD, NC**
 SUPPLY PLUMBING PLANS

REVISION	SCHEDULE
DATE	REFERENCE

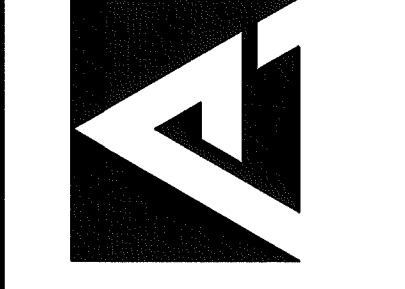
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U-01



GAR Engineering
 701 EAST BAY STREET, SUITE 302
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PINNACLE ARCHITECTURE PROFESSIONAL ASSOCIATION
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 MATTHEW S. NORTH CAROLINA 28104
 PHONE: (301) 841-9851; FAX: (301) 841-9853



D.R. REYNOLDS COMPANY, INC.
 5704 NORTH CAROLINA ST. #2066
 CHARLOTTE, NC 28217
 (704) 428-1586

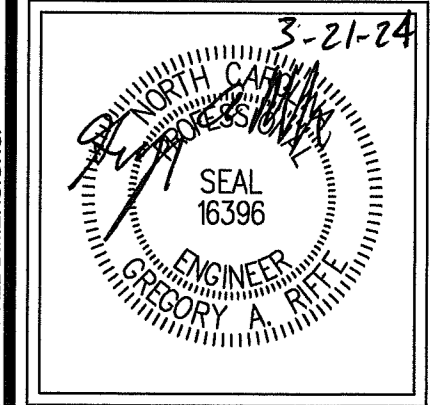
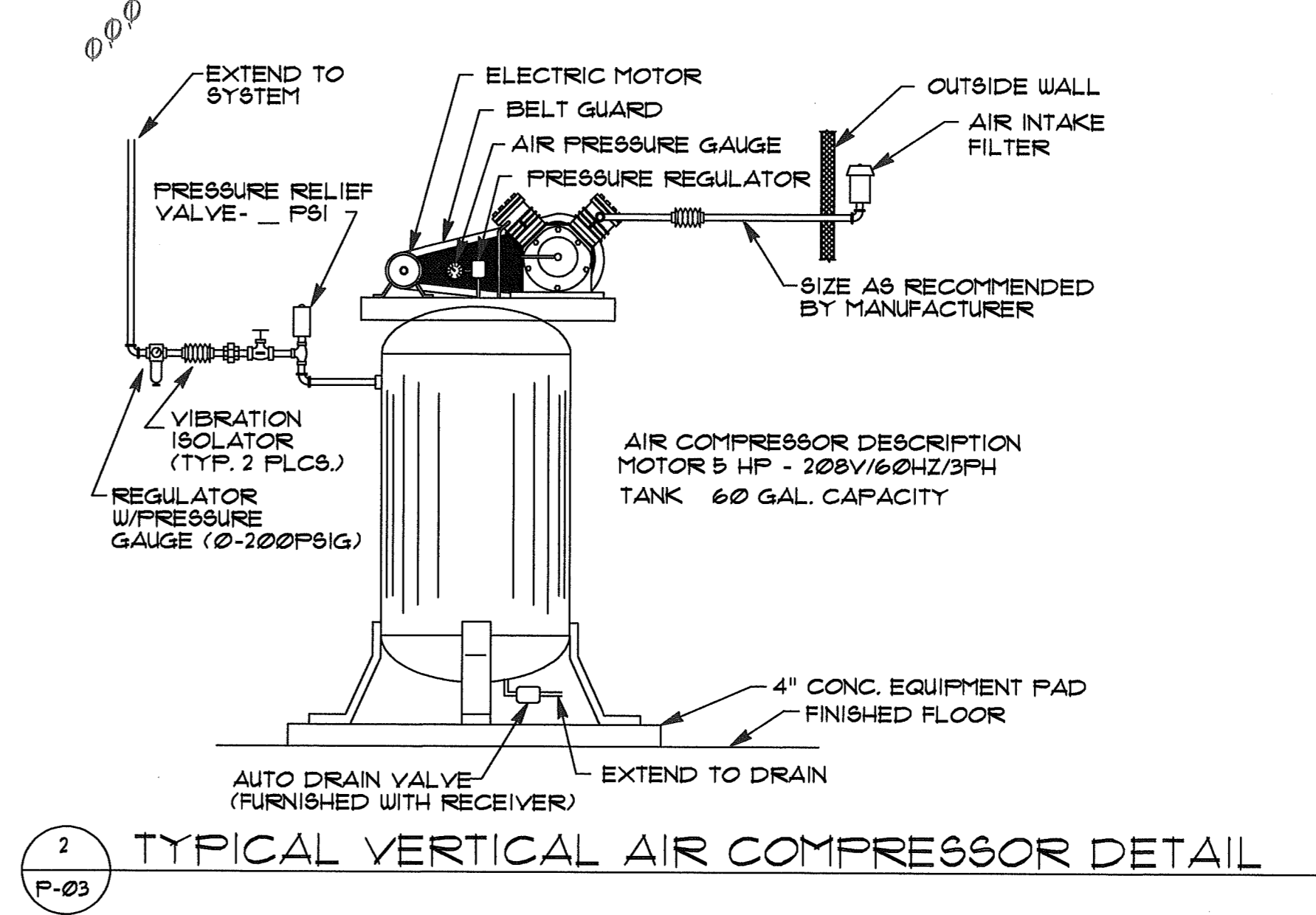
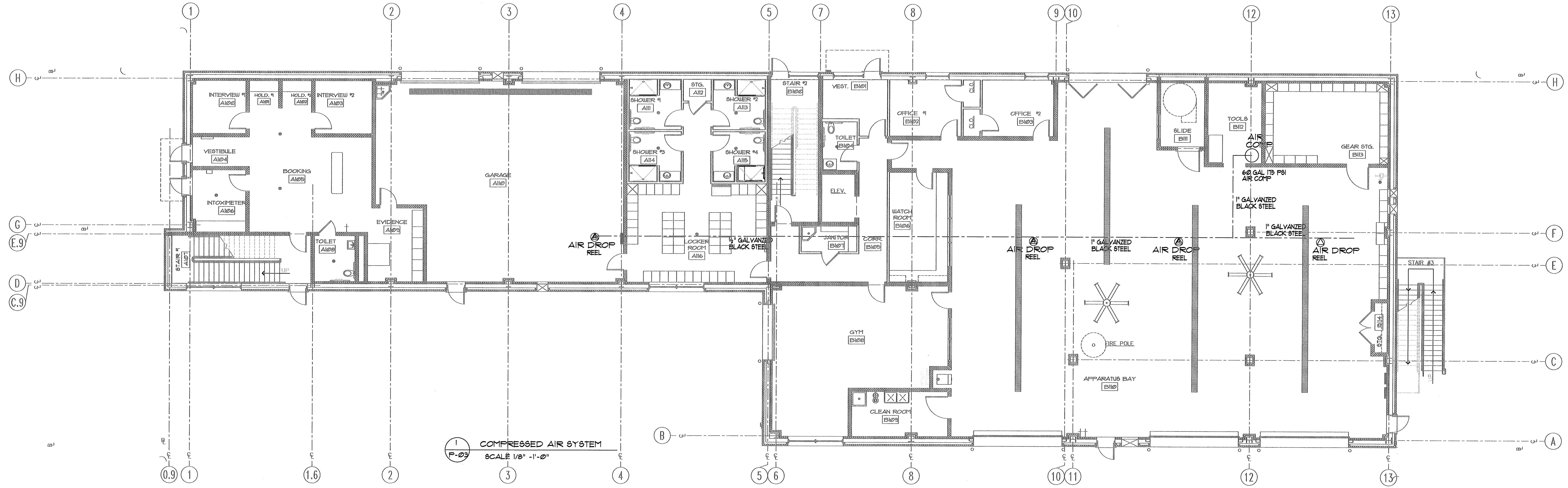
ISSUE DATE: 11.30.23
 DRAWN BY: RWH
 CHECKED BY: GAR
 PROJECT: 2324

CONCORD FIRE STATION NO. 6
 DAVID DISTRICT - NEW FACILITY
 CONCORD, NC
 WASTE PLUMBING PLANS

REVISION SCHEDULE	
DATE	REFERENCE

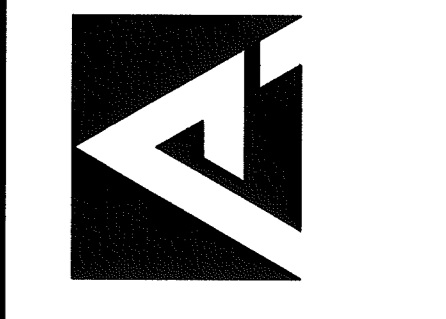
T-02

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Pinnacle Architecture
 PROFESSIONAL ASSOCIATION
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 MATTHEWS, NORTH CAROLINA 28106
 PHONE: (704) 847-9831 FAX: (704) 847-9833
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DRB
D. R. REYNOLDS COMPANY, INC.
 100 SOUTH CAROLINA STREET
 STAMM, NORTH CAROLINA 27586
 (910) 428-1380

ISSUE DATE: 11.30.23
 DRAWN BY: RWH
 CHECKED BY: JSC
 PROJECT: 2324

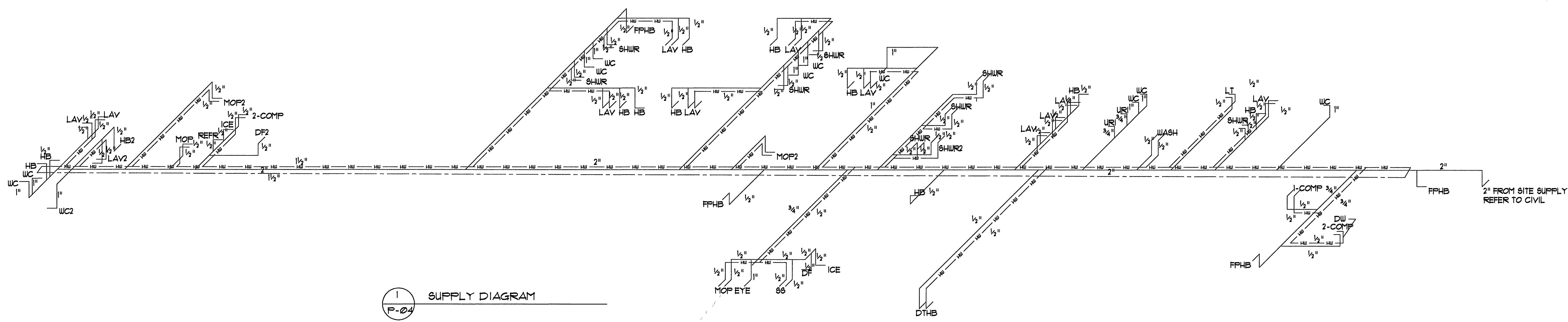
CONCORD FIRE STATION NO. 6
 DAVID DISTRICT - NEW FACILITY
 CONCORD, NC
 COMPRESSED AIR SYSTEM

REVISION SCHEDULE

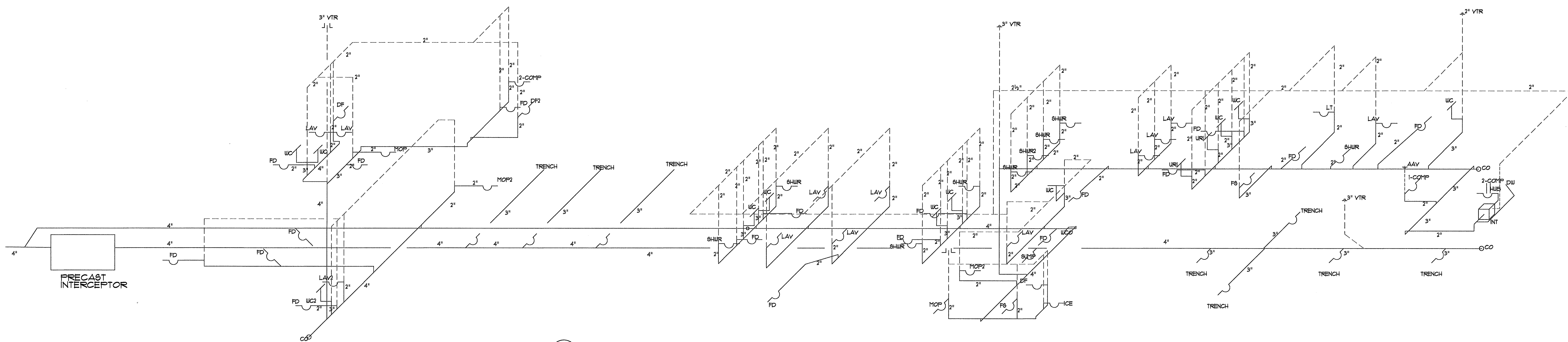
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7-03

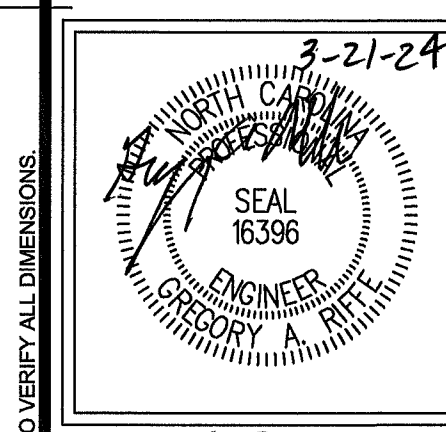
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1 SUPPLY DIAGRAM
P-04

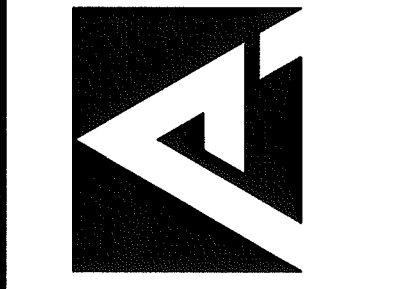


2 WASTE DIAGRAM
P-04



GAR Engineering
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D.R. REYNOLDS COMPANY, INC.
 10000 WILSON FARM ROAD
 STARR, NORTH CAROLINA 27586
 (910) 428-1580

ISSUE DATE: 11.30.23
 DRAWN BY: RWH
 CHECKED BY: GAW
 PROJECT: 2324

CONCORD FIRE STATION NO. 6
 DAVID DISTRICT - NEW FACILITY
 CONCORD, NC
 PLUMBING DIAGRAMS

REVISION	DATE	SCHEDULE	REFERENCE

U-04

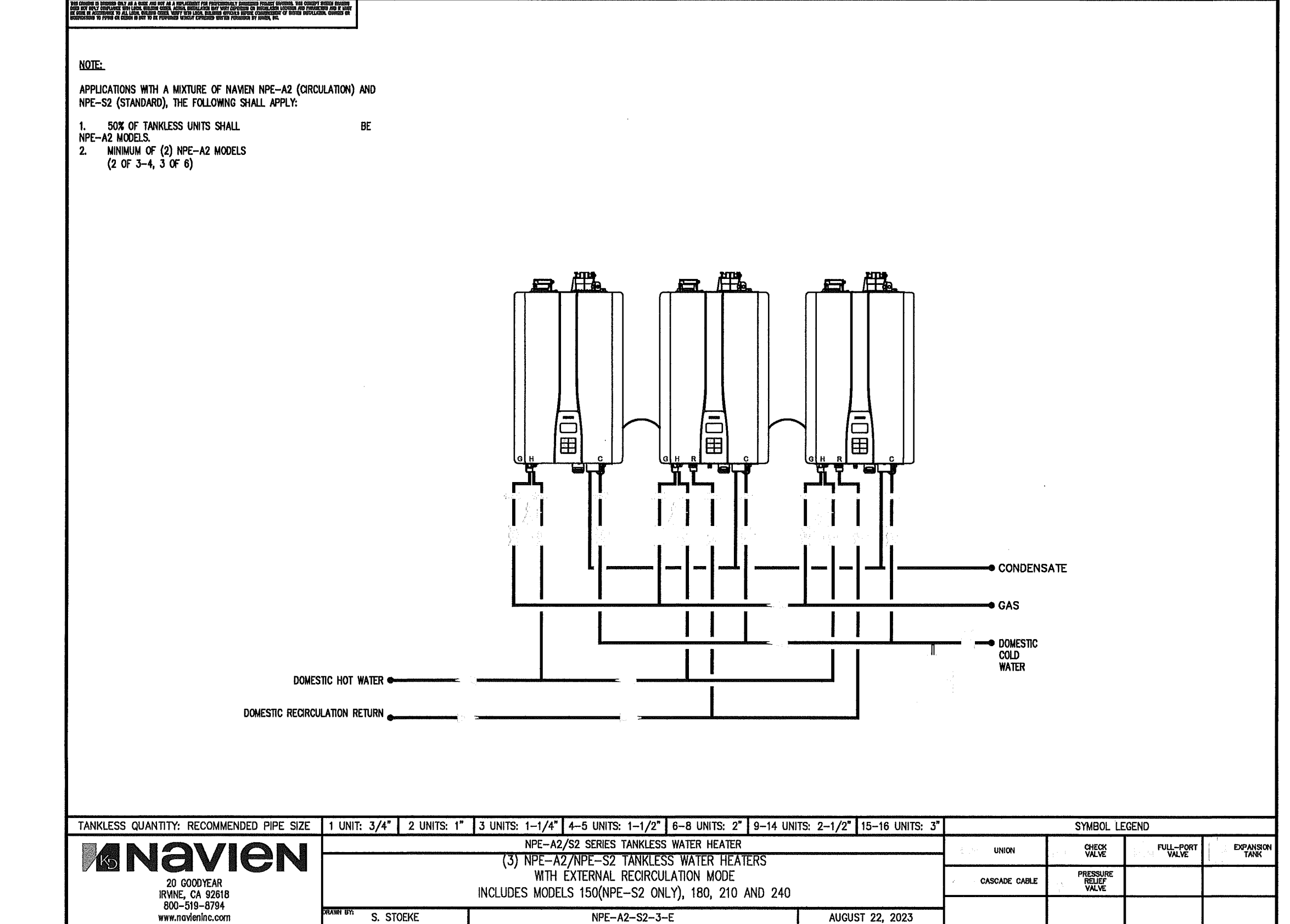
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CONTRACTOR TO VERIFY ALL DIMENSIONS.

1
P-05

PLUMBING FIXTURE & EQUIP. SCH.

SYM.	DESCRIPTION	CONNECTIONS (IN)				BASIS OF DESIGN SPECIFICATION	REMARKS	COUNT	WSFU/PER	DFU/PER	TOTAL WSFU	TOTAL DFU
		U	V	CW	HW							
WC	WATER CLOSET FLUSH VALVE	3"	2"	1"		AMERICAN STANDARD 9043530 100 9043530	OR APPROVED EQUAL	10	10	4	100	40
WC2	WATER CLOSET FLUSH VALVE FRENCH	3"	2"	1"		ACORN 6995-33-3 - PWH	OR APPROVED EQUAL	1	10	4	10	4
URI	ADA URINAL	2"	2"	3/4"		AMERICAN STANDARD 60423000 VALVE, AUST. #663.013.001	OR APPROVED EQUAL	2	5	4	10	8
LAV	LAVATORY, DROPPIN	2"	2"	1/2"	1/2"	AMERICAN STANDARD 64302040 FAUCET, CHICAGO 16.6.06.AB1	OR APPROVED EQUAL	11	2	1	22	11
LAV2	LAVATORY, WALLMOUNT	2"	2"	1/2"	1/2"	ACORN 18402	OR APPROVED EQUAL	1	2	1	2	1
SHUR	SHOWER	2"	2"	1/2"	1/2"	TILED BY GENERAL CONTRACTOR FOR PERMANENT INSTALLMENT BY OTHER TRADES	OR APPROVED EQUAL	7	1.4	2	9.8	14
SHUR2	SHOWERADA	2"	2"	1/2"	1/2"	TILED BY GENERAL CONTRACTOR FOR PERMANENT INSTALLMENT BY OTHER TRADES	OR APPROVED EQUAL	1	1.4	2	1.4	2
2-COMP	2-COMPARTMENT SINK	2"	2"	1/2"	1/2"	ELKAY D229B4 FAUCET, MOEN 8161	OR APPROVED EQUAL	2	3	2	6	4
DB	DECOIL SINK WITH HYDRANT	2"	2"	1/2"	1/2"	Advance Tabco FE-11812-18 T49 B-7486	OR APPROVED EQUAL	1	3	2	3	2
1-COMP	KITCHEN SINK	2"	2"	1/2"	1/2"	UNITHUIS WANNI-2318-B58 FAUCET, MOEN 8161	OR APPROVED EQUAL	1	3	2	3	2
MOP	MOP SINK	2"	2"	1/2"	1/2"	FIAT 983424 T49 B-6669-B6TR	OR APPROVED EQUAL	2	3	2	6	4
EYE	EMERGENCY EYEWASH & SHOWER	2"	2"	1"		HAW 8369UC 1/4" CW	OR APPROVED EQUAL	1				
MOP2	CORNER MOP SINK	2"	2"	1/2"	1/2"	FIAT 983636 T49 B-6669-B6TR	OR APPROVED EQUAL	2	3	2	6	4
WH	TANKLESS WATER GAS 19"X18"		2"	2"		NAVIAN NFA-240 3" MANIFOLD WITH VENT KIT WITH GAS NSF-230 RECIRC 12V 2.3A 1/8 HP	INCLUDE DRAIN PAN OR APPROVED EQUAL					
WASH	COMMERCIAL WASHER	3"	2"	1/2"	1/2"	OATEY 38846		1	3	2	3	2
SS	UTILITY SINK WITH FAUCET	2"	2"	1/2"	1/2"	ELKAY B56782 B-5669-B6TR, YRS		1	3	2	3	2
ICE	ICE MAKER BOX /U BACKFLOW	2"	2"	1/2"		OATEY 39609 BACKFLOW VALVE CUT MUSTEE MCP	OR APPROVED EQUAL	2	1.4	2	2.8	4
LT	LAUNDRY TUB WITH FAUCET	2"	2"	1/2"	1/2"	MUSTEE MCP	OR APPROVED EQUAL	1	3	2	3	2
HB	HOSE BIBB			1/2"		PRIER 4442	OR APPROVED EQUAL					
FRUH	FROST PROOF WALL HYDRANT, ENCLOSED		3/4"			WATTS HY-125-B	OR APPROVED EQUAL					
FD	FLOOR DRAIN					SIOLX CHIEF 833-36-PNR	OR APPROVED EQUAL TRAP PROTECTED					
CO	CLEAN OUT					SIOLX CHIEF 834-4PNR	OR APPROVED EQUAL					
WCO	WALL CLEAN OUT					SIOLX CHIEF 813	OR APPROVED EQUAL					
F8	FLOOR SINK	3"	2"			SIOLX CHIEF 861-23XF	OR APPROVED EQUAL					
DF	BI-LEVEL DRINKING FOUNTAIN	2"	2"	1/2"		OASIS FG88C9L	OR APPROVED EQUAL	2	25	5	5	1
DF2	DRINKING FOUNTAIN	2"	2"	1/2"		OASIS FG88B2	OR APPROVED EQUAL	1	25	5	25	5
TRENCH	TRENCH DRAIN	3"				ZURN Z8866-HD-DG-C	OR APPROVED EQUAL	5		5		25
DTHB	HOT/COLD HOSE BIBB			1/2"	1/2"	WOODFORD MODEL 22	OR APPROVED EQUAL					
APPROVED EQUALS								TOTAL			191.75 WSFU	192.5 DFU
NON-LIMITED TRAP AND COMPONENTS THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ANY								TOTAL			30 GPM	

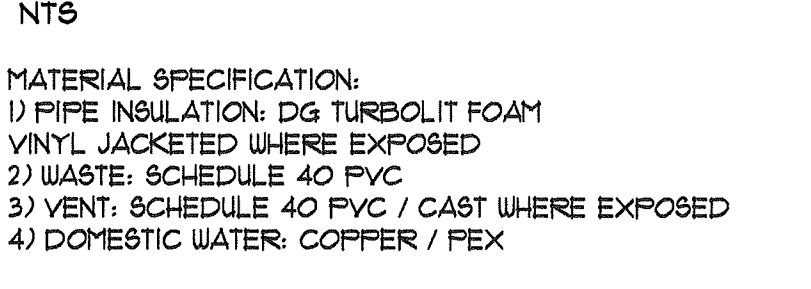


2
P-05

PLUMBING FIXTURE & EQUIP. SCH.

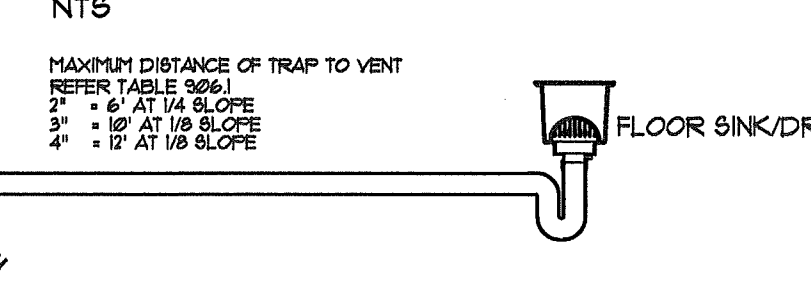
3
P-05

TRAP TO VENT DETAIL



4
P-05

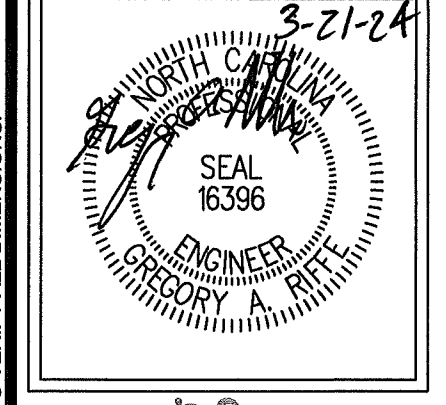
TRAP TO VENT DETAIL



5
P-05

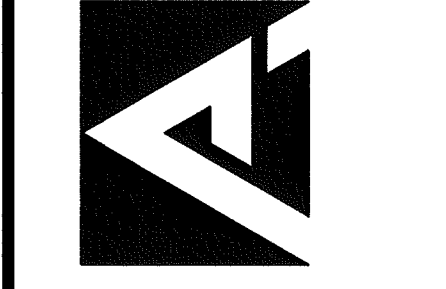
PLUMBING NOTES

- THE PLUMBING CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL, AND EQUIPMENT REQUIRED FOR THE COMPLETION AND OPERATION OF ALL SYSTEMS IN THIS SECTION OF WORK IN ACCORDANCE WITH THE APPROVED EDITIONS OF THE 2018 NC PLUMBING CODE, THE LOCAL ADMINISTRATIVE AUTHORITY AND APPLICABLE NFPA CODES. INSULATE DOMESTIC COLD & HOT WATER PIPING PATCH EXISTING INSULATION WHERE DAMAGED UNDER CONSTRUCTION AND WHERE NEW CONNECTIONS ARE MADE.
- THE CONTRACTOR SHALL APPLY AND PAY FOR ALL NECESSARY PERMITS, FEES, AND INSPECTIONS REQUIRED BY ANY PUBLIC AUTHORITY HAVING JURISDICTION. ACREAGE CHARGES, BONDS, PROPERTY ASSESSMENTS AND FACILITIES CHARGE SHALL NOT BE CONSIDERED TO BE A PART OF THIS CONTRACT. IDENTIFY ALL DISCREPANCIES TO THE ENGINEER THERE SHALL BE NO EXTRA CHARGES SHALL BE ACCEPTED FOR THE WORK THAT HAS TO BE PERFORMED DUE TO THE CONTRACTOR'S NEGLIGENCE TO VERIFY THE EXISTING CONDITIONS.
- THE PLUMBING CONTRACTOR SHALL COORDINATE WORK WITH THE CONTRACTORS OF OTHER TRADES, AND COMPLETE THE ENTIRE INSTALLATION AS SOON AS THE CONDITIONS OF THE BUILDING PERMITS.
- INSTALL ANY GAS PIPING IN ACCORDANCE WITH 2018 NC GAS CODES, REQUIREMENTS OF LOCAL GAS SUPPLIER AND N.B.F.U.
- DOMESTIC WATER PIPE AND FITTINGS INSIDE BUILDINGS SHALL BE TYPE L COPPER BELOW AND ABOVE GRADE. JOINTS SHALL BE 95/5 SOLDER UNLESS SPECIFIED OTHERWISE.
- FIRESTOP ALL PENETRATIONS, BY PIPING OR CONDUITS, OF FIRE RATED WALLS, FLOORS AND PARTITIONS, PROVIDE A DEVICE(S) OR SYSTEM(S) WHICH HAS BEEN TESTED AND LISTED AS COMPLYING WITH ASTM E-814. INSTALL THE DEVICE(S) OR SYSTEM(S) IN ACCORDANCE WITH THE CONDITIONS OF THEIR LISTING, PROVIDE A DEVICE(S) OR SYSTEM(S).
- ALL PLUMBING FIXTURES ARE TO BE EQUIPPED WITH WATER HAMMER ARRESTORS AS PER 2018 NC PLUMBING CODE 605.4. PLUMBING CONTRACTOR AND GENERAL CONTRACTOR TO VERIFY.
- ALL PLUMBING MATERIALS USED WILL COMPLY WITH THE 2018 NC PLUMBING CODE. A) ANY ABOVE-GROUND DRAINAGE AND VENT PIPING SHALL COMPLY WITH SECTION 1021. B) ANY UNDERGROUND SANITARY DRAINAGE AND VENT PIPING SHALL COMPLY WITH SECTION 1022. C) ANY WATER SERVICE PIPE SHALL COMPLY WITH SECTION 605.3. D) ANY WATER DISTRIBUTION PIPE SHALL COMPLY WITH SECTION 605.4.
- PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE PLUMBING SYSTEMS AS INDICATED ON THE DRAWINGS, SPECIFIED AND AS REQUIRED BY CODE. REFER TO ARCHITECT/ENGINEER FOR ANY QUESTIONS OF INTENT OR DISCREPANCIES OR CONFLICTING INFORMATION.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY MATERIALS, EQUIPMENT, OR CONFIGURATION BELIEVED TO BE INADEQUATE, UNSUITABLE, IN VIOLATION OF LAWS, ORDINANCES, RULES, OR REGULATIONS OF AUTHORITIES HAVING JURISDICTION PRIOR TO INSTALLATION.
- THE CONTRACTOR SHALL CAREFULLY EXAMINE THE CONTRACT DOCUMENTS, VISIT THE SITE, AND BECOME THOROUGHLY FAMILIAR WITH THE BUILDING STANDARDS AND LOCAL CONDITIONS RELATING TO THE WORK PRIOR TO SUBMITTING THE BID. PROSAL FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR OF THE OBLIGATIONS OF THE CONTRACT. IDENTIFY ALL DISCREPANCIES TO THE ENGINEER THERE SHALL BE NO EXTRA CHARGES SHALL BE ACCEPTED FOR THE WORK THAT HAS TO BE PERFORMED DUE TO THE CONTRACTOR'S NEGLIGENCE TO VERIFY THE EXISTING CONDITIONS.
- NO EXTRA COMPENSATION WILL BE CONSIDERED FOR WORK REFERENCED OR IMPLIED IN THE CONTRACT DOCUMENTS. THE CONTRACT DOCUMENTS MAY INCLUDE BUT NOT BE LIMITED TO ELECTRICAL, MECHANICAL, PLUMBING, ARCHITECTURAL, OR STRUCTURAL WORK REFERENCED TO THE CONTRACT DOCUMENTS BUT NOT INCLUDED IN THE BID UNLESS ABSOLUTELY NOTED AS SUCH ON THE SUBMITTED BID DOCUMENTS.
- THE CONTRACTOR SHALL PROVIDE FOR ANY RELOCATION COSTS TO THE EXISTING PLUMBING SYSTEM AND COMPONENTS OR EQUIPMENT REQUIRED TO ACCOMMODATE THE NEW CONSTRUCTION.
- COORDINATE WITH ARCHITECTURAL WORKING DRAWINGS PRIOR TO ROUGHING-IN.
- FIELD VERIFY ALL DIMENSIONS.



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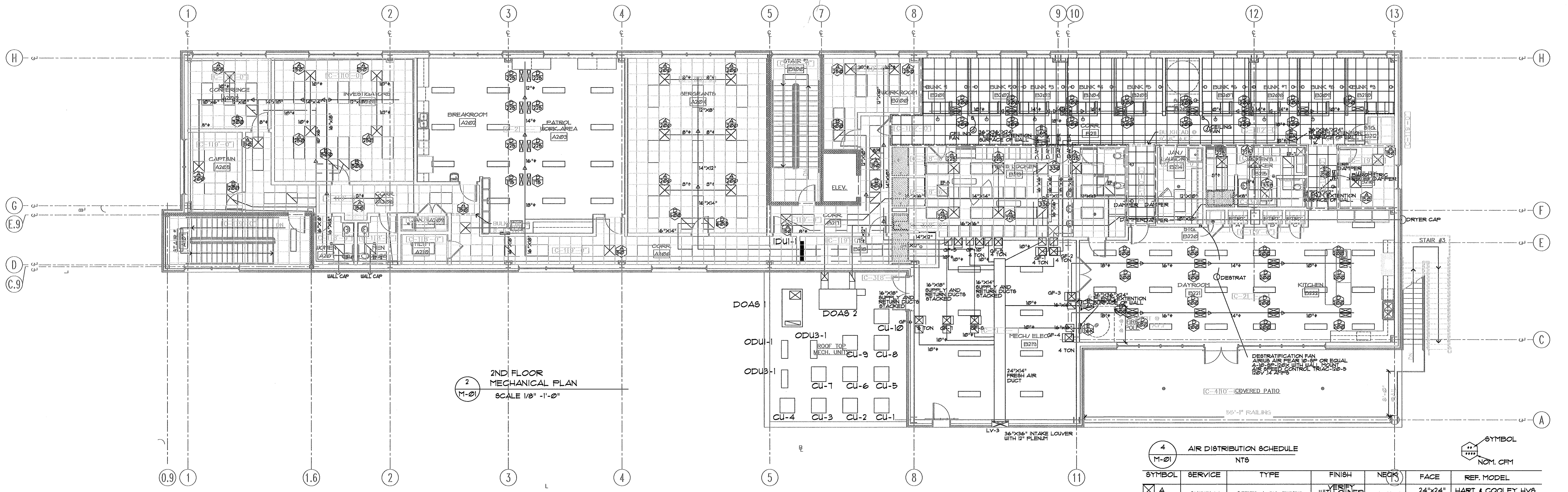
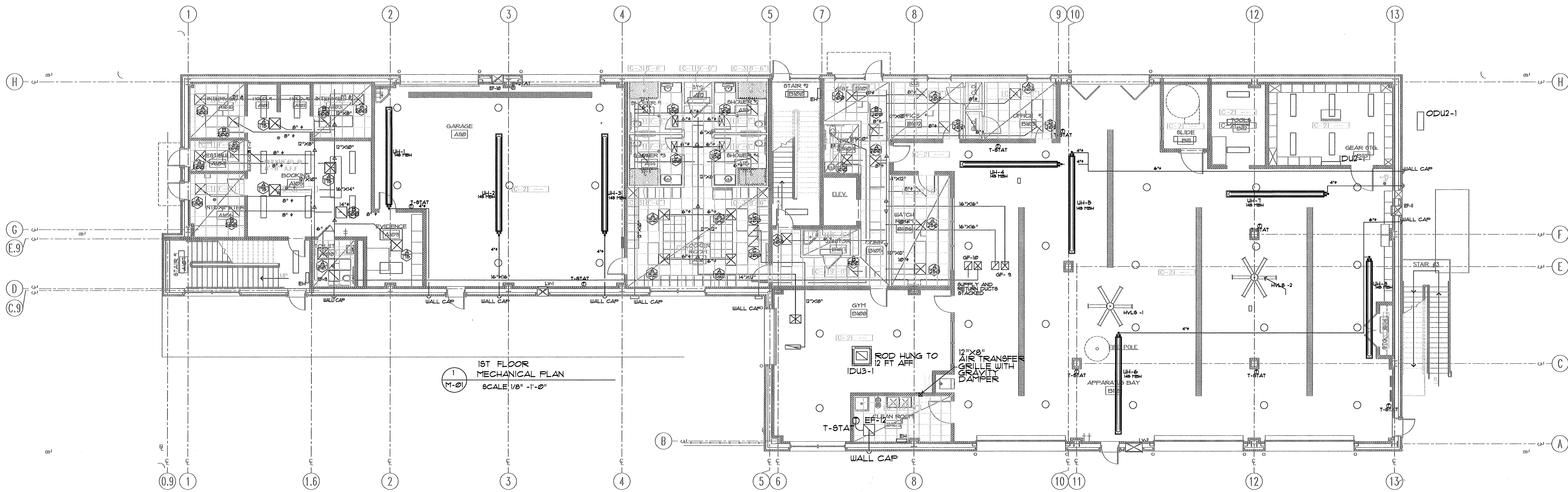
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 (810) 428-1360

ISSUE DATE: 11.20.23
 DRAWN BY: RMD
 CHECKED BY: GAS
 PROJECT: 2324

CONCORD FIRE STATION NO. 6
 DAVID DISTRICT - NEW FACILITY
 CONCORD, NC
 PLUMBING NOTES & DETAILS

REVISION SCHEDULE	
NO.	DATE

P-05



3
M-01
CONTROLS CONTACT
Insight Partners
Contact - Patrick Doherty, Controls Application Engineer
Office: 704-597-8990
Mobile: 980-328-8983
pdoherty@insightusa.com
9006 Perimeter Woods Drive, Suite E
Charlotte, NC 28216

4
M-01
AIR DISTRIBUTION SCHEDULE
NTS

SYMBOL	SERVICE	TYPE	FINISH	NECK	FACE	REF. MODEL
A	SUPPLY	STEEL LOUVERED	VERIFY WITH OWNER	NOTE 2	24"x24"	HART & COOLEY HVS
B	RETURN	STEEL PERFORATED	VERIFY WITH OWNER	NOTE 2	24"x24"	HART & COOLEY FFT
C	SUPPLY	STEEL PERFORATED	VERIFY WITH OWNER	NOTE 2	12"x24"	HART & COOLEY FFT
D	SUPPLY	SPIRAL LOUVERED	VERIFY WITH OWNER	NOTE 2	6"x12"	HART & COOLEY USV
E	RETURN	STEEL PERFORATED	VERIFY WITH OWNER	NOTE 2	24"x24"	HART & COOLEY FFT

SYMBOL
NOM. CRM

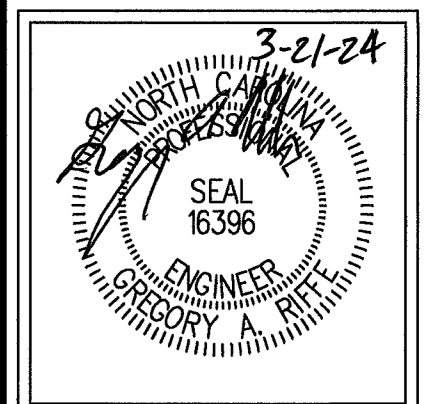
ACCEPTABLE MANUFACTURERS: PRICE, TITUS, TUTTLE & BAILEY, HART & COOLEY
SEE ARCHITECTURAL CEILING PLAN FOR PROPER FRAME STYLE.

1. THE BACK OF ALL SUPPLY, RETURN AND TRANSFER AIR DEVICES SHALL BE INSULATED A MINIMUM OF R-6 OR EQUAL TO CEILING INSULATION RATING. COORDINATE MOUNTING BORDER OF SUPPLY, RETURN, AND EXHAUST GRILLES WITH CEILING TYPE.

2. DUCT RUN-OUTS TO AIR DEVICES SHALL BE SIZE SHOWN ON PLANS, OR EQUAL TO DIAMETER OF THE NECK SIZE LISTED ABOVE OR ON P.F.S.

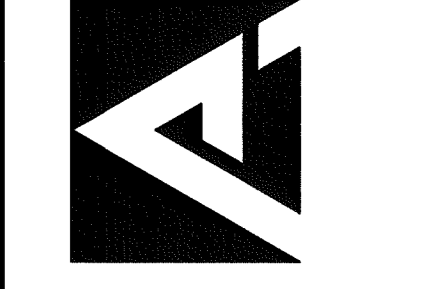
3. ALL DIFFUSERS SHALL BE 4-WAY PATTERN AIR DISCHARGE UNLESS INDICATED OTHERWISE INDICATED THE DRAWINGS.

4. FINAL FINISH TO MATCH SURFACE COLOR. VERIFY WITH ARCHITECTURALS.



GAR Engineering
700 EAST BAY STREET, SUITE 302
CHARLESTON, SOUTH CAROLINA 29403
PHONE: (843) 571-5454 FAX: (843) 571-5774
NC PROFESSIONAL ENGINEER LICENSE NUMBER: C1151

PINNACLE ARCHITECTURE PROFESSIONAL ASSOCIATION
P.O. BOX 117, 650 TEAM ROAD, SUITE 100
MATTHEWS, NORTH CAROLINA 28106
PHONE: (704) 847-9831 FAX: (704) 847-9833



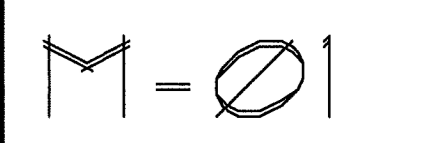
D.R. REYNOLDS COMPANY, INC.
5700 NORTH CAROLINA 27706
(910) 428-1586

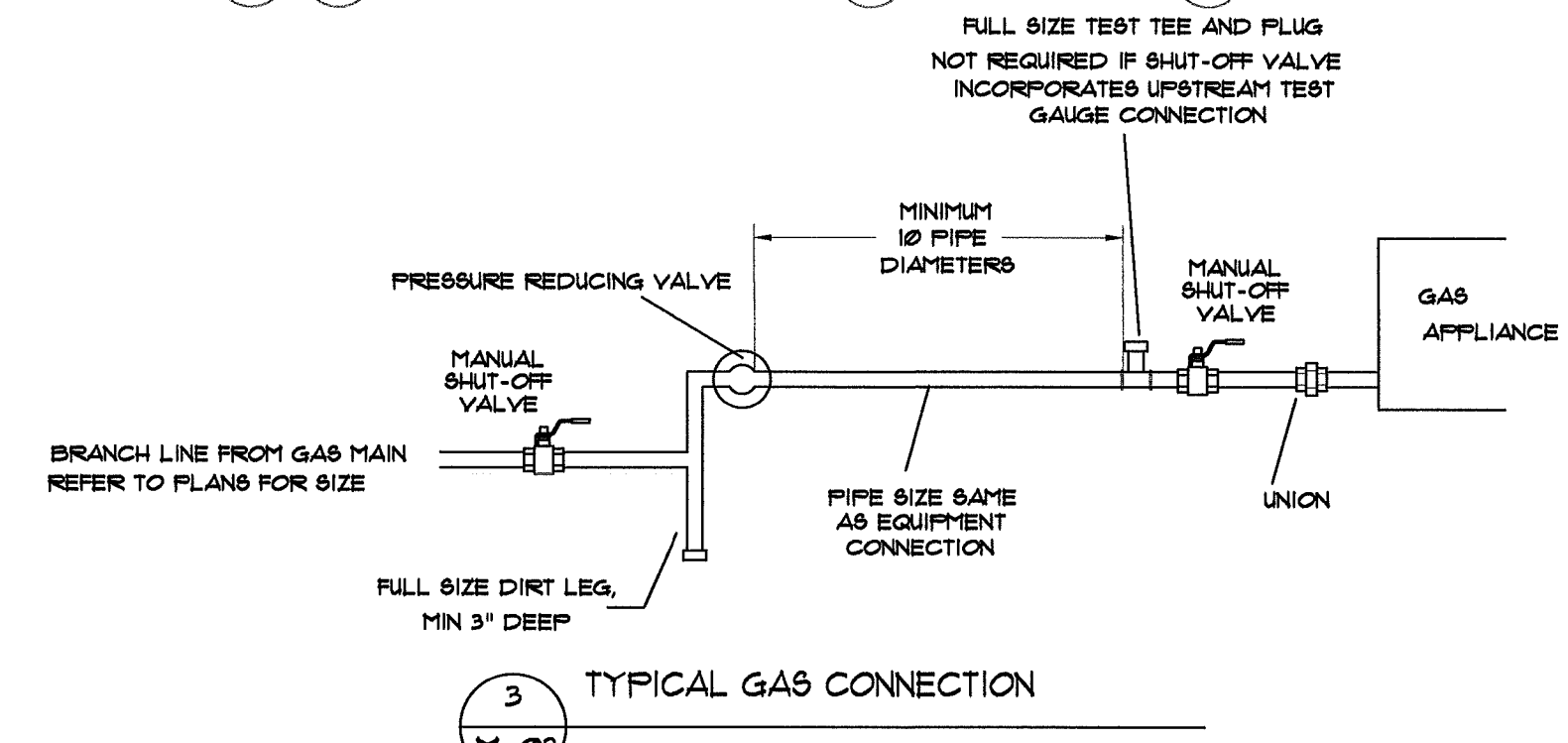
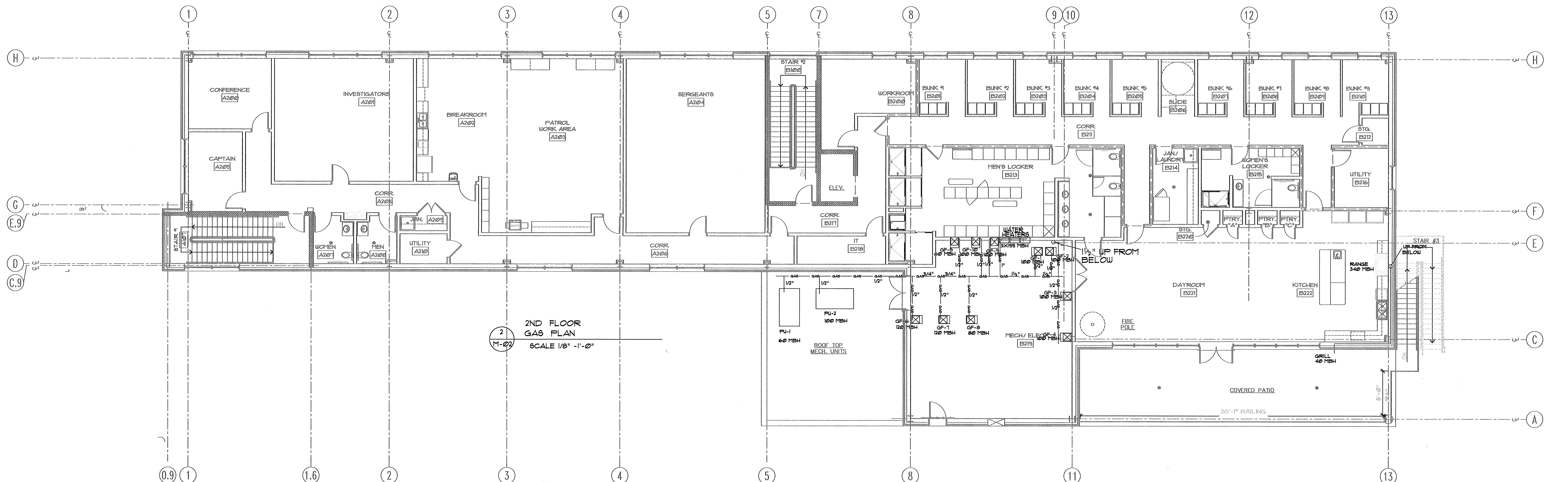
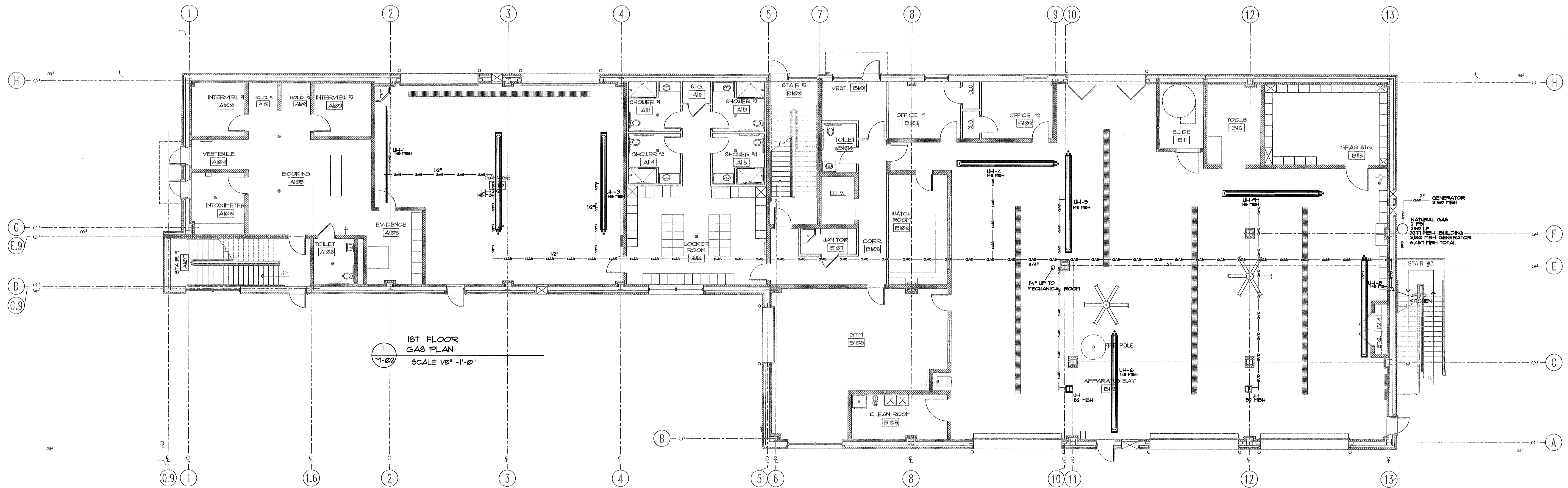
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DRAWN BY: RWH
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PROJECT: 2324

CONCORD FIRE STATION NO. 6
DAVID DISTRICT - NEW FACILITY
CONCORD, NC
MECHANICAL PLAN

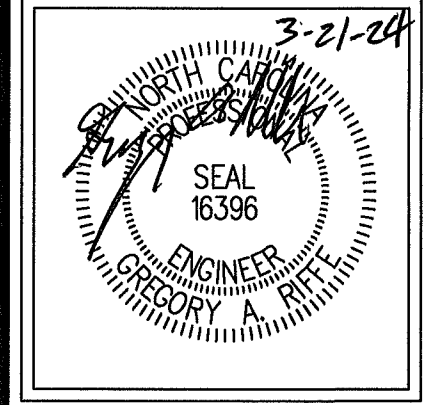
REVISION SCHEDULE

NO.	DATE	REFERENCE



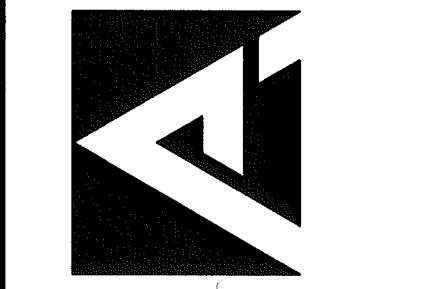


- 4 TYPICAL GAS NOTES
1. MINIMUM GAS PIPING SIZE SHALL BE 1/2"
 2. GAS PIPING AND FITTINGS SHALL BE BLACK STEEL, SCHEDULE 40, IN ACCORDANCE WITH ASTM SPECIFICATION A 186, WITH 90 PSI BLACK TALLIBLE IRON FITTINGS IN ACCORDANCE WITH ASTM SPECIFICATION A 41, GRADE 3040, AND ASA SPECIFICATION B9.3, 100 LB.
 3. GAS PIPING SHALL BE INSTALLED TO THE REQUIREMENTS OF THE NORTH CAROLINA STATE BUILDING CODE, GAS 2018 EDITION AND NFPA STANDARDS NO. 54. ALL PIPING TO BE SUPPORTED CLEVIS HANGERS WITH GAS VARIED ROD A MAXIMUM OF 18" ON CENTER.
 4. GAS PIPING SHALL BE TESTED IN ACCORDANCE WITH THE PROCEDURES DESCRIBED IN NFPA 54. ANY OTHER TEST AS REQUIRED BY THE LOCAL GAS INSPECTION DEPARTMENT OR GAS COMPANY SHALL ALSO BE FOLLOWS.
 5. GAS PIPING SHALL BE IDENTIFIED AS PER SECTION 405.
 6. GAS VALVES SHALL BE 90 PSI RATED, NON-LUBRICATED PLUG TYPE WITH BRONZE BODY AND BRONZE PLUG.
- ALL GAS APPLIANCES/UNITS SHALL HAVE PRESSURE REGULATORS AND SHUT-OFF VALVES.
— ALL EXPOSED DUCT SHALL MEET THE REQUIREMENTS OF NC ENERGY CODE 2018 AND NC MECHANICAL CODE 2018.
- ALL GAS PIPING AND SHUT-OFF VALVES SHALL BE LABELED AND ACCESSIBLE FROM GROUND.



GAR Engineering
 701 EAST BAY STREET, SUITE 302
 CHARLESTON, SOUTH CAROLINA, 29403
 PHONE: (704) 721-6492 FAX: (704) 721-6499
 NC FROM LICENSE NUMBER C-131

PINNACLE ARCHITECTURE PROFESSIONAL ASSOCIATION
 P.O. BOX 117, 637 TEAM ROAD, SUITE 109
 MATTHEWS, NORTH CAROLINA, 28106
 PH: (714) 841-9151 FAX: (714) 841-9153



D.R. REYNOLDS COMPANY, INC.
 100 NORTH CAROLINA STREET
 STARR, NORTH CAROLINA 27686
 (910) 428-1350

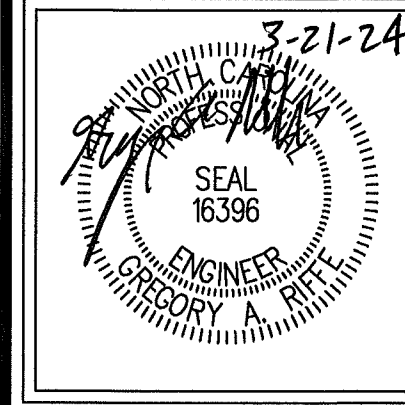
ISSUE DATE: 11.30.23
 DRAWN BY: RWH
 CHECKED BY: GAR
 PROJECT: 23-24

CONCORD FIRE STATION NO. 6
 DAVID DISTRICT - NEW FACILITY
 CONCORD, NC
 GAS PLAN

REVISION SCHEDULE

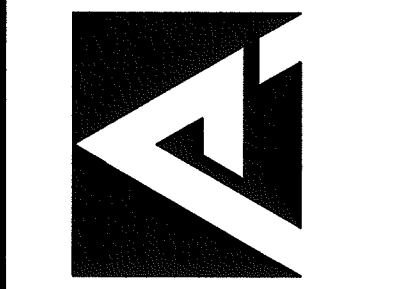
NO.	DATE	REFERENCE

M-02



GAR Engineering
 PINNACLE ARCHITECTURE PROFESSIONAL ASSOCIATION
 701 EAST BAY STREET, SUITE 302
 MATTHEWS, NORTH CAROLINA 28106
 PHONE (704) 21-4449 FAX (704) 21-4459
 NC FROM LICENSE NUMBER C-151

PINNACLE ARCHITECTURE PROFESSIONAL ASSOCIATION
 701 EAST BAY STREET, SUITE 302
 MATTHEWS, NORTH CAROLINA 28106
 PHONE (704) 21-4449 FAX (704) 21-4459
 NC FROM LICENSE NUMBER C-151



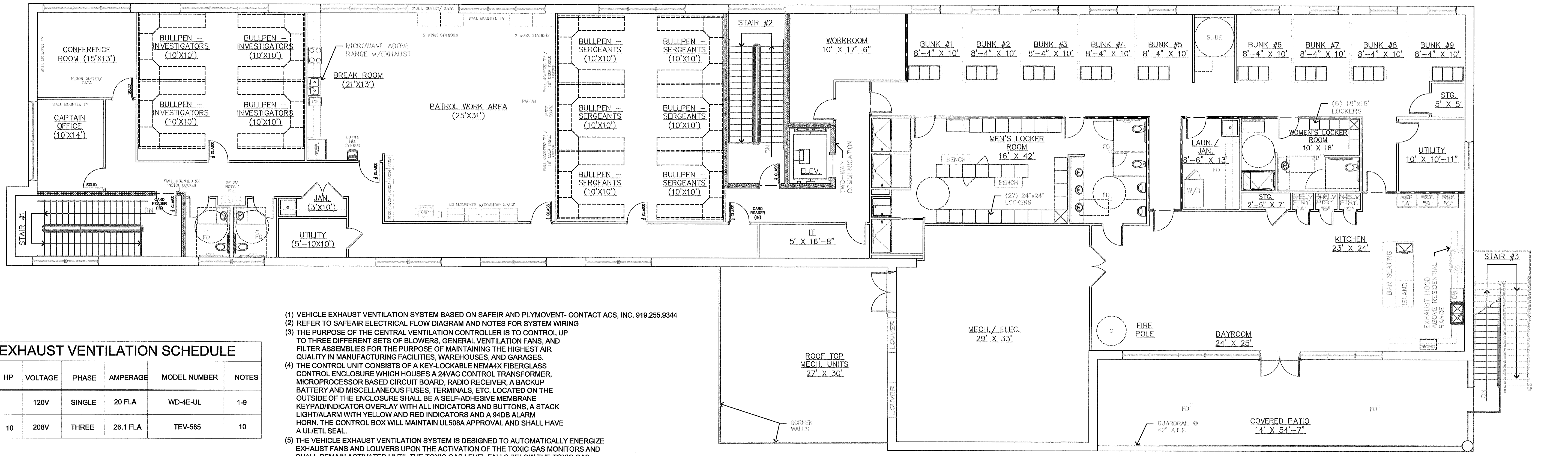
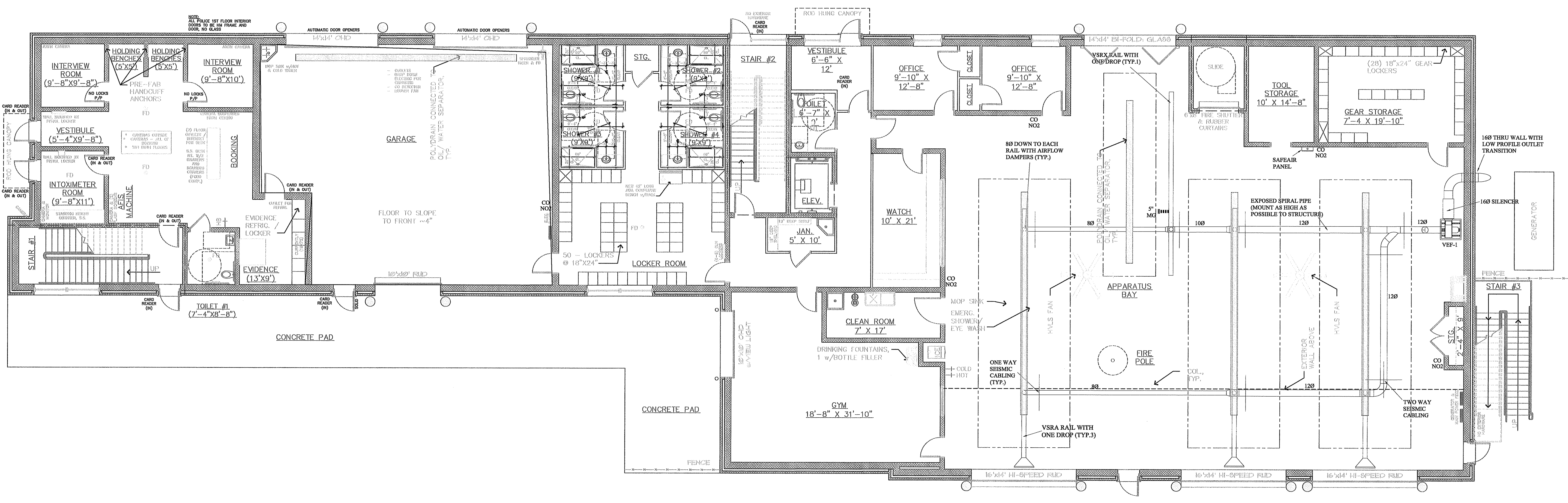
D.R. REYNOLDS COMPANY, INC.
 100 SOUTH MAIN STREET, SUITE 200
 STANFORD, NORTH CAROLINA 27080
 (910) 428-1380

DATE: 11.30.23
 DRAWN BY: RWH
 CHECKED BY: GAF
 PROJECT: 23024

CONCORD FIRE STATION NO. 6
 DAVID DISTRICT - NEW FACILITY
 CONCORD, NC
 PLYMOVENT SYSTEM

NO.	DATE	REFERENCE

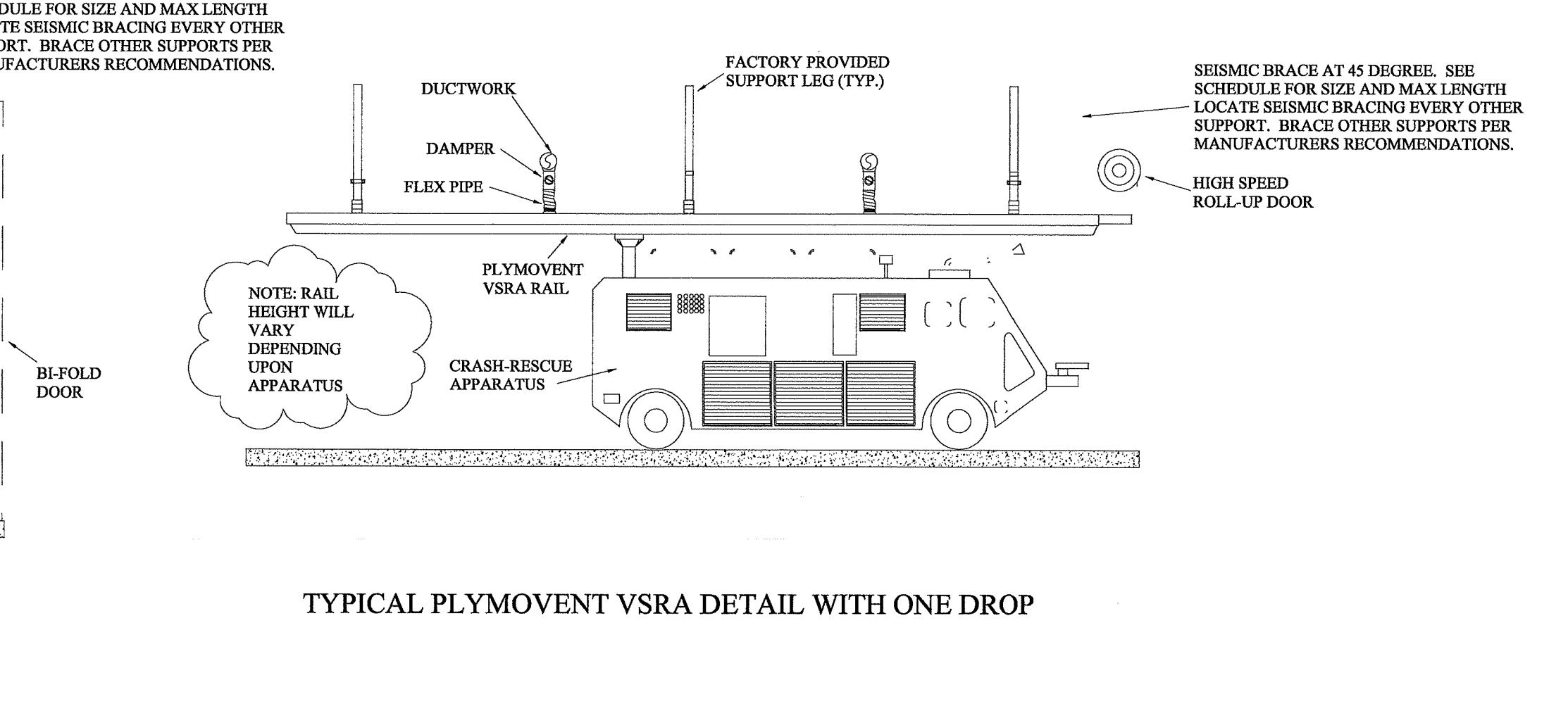
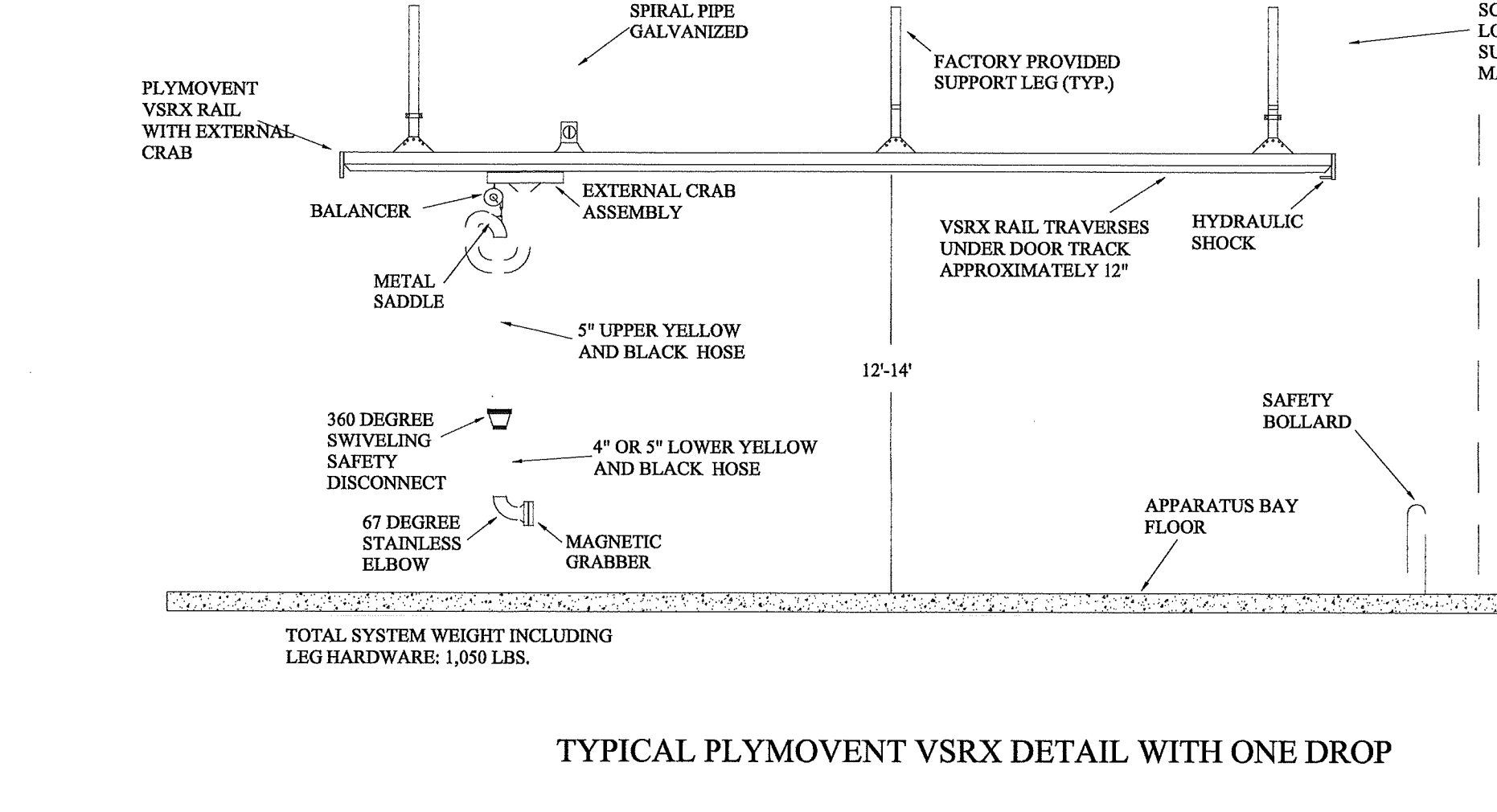
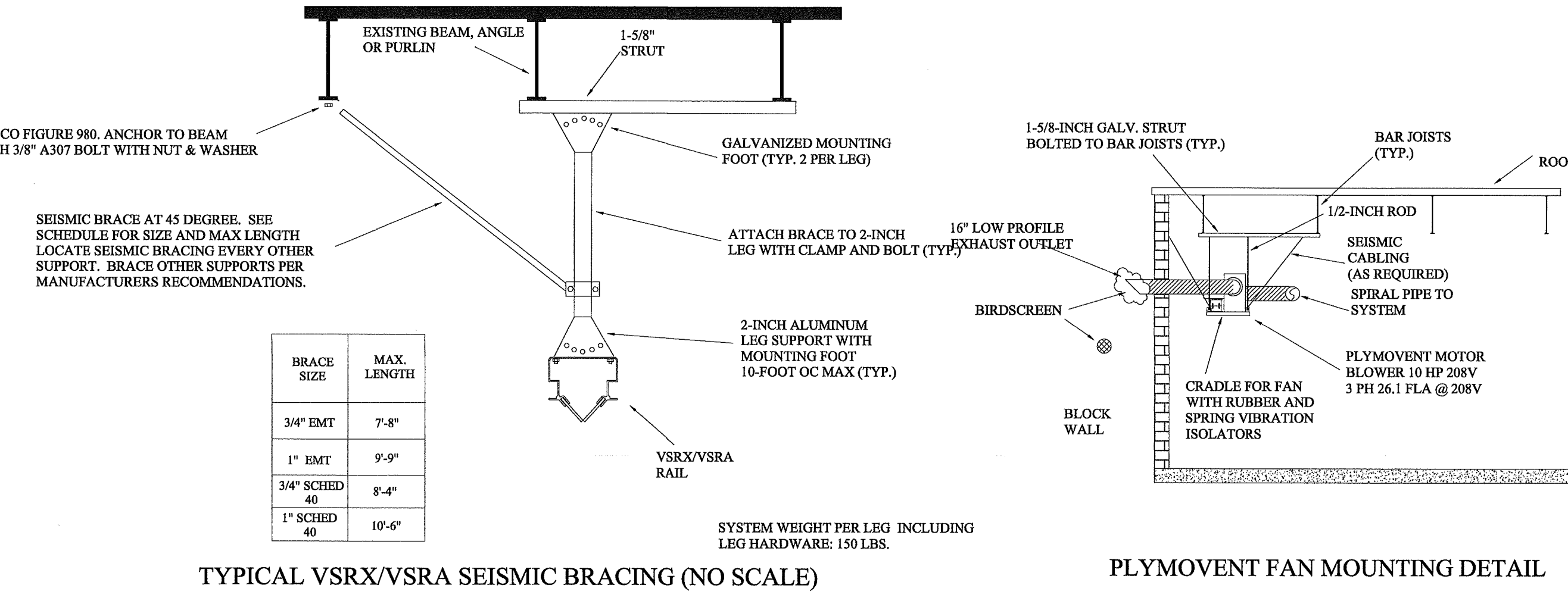
M-03



VEHICLE EXHAUST VENTILATION SCHEDULE

MARK	TYPE	HP	VOLTAGE	PHASE	AMPERAGE	MODEL NUMBER	NOTES
WD-4E-UL	SAFEAIR	120V	SINGLE	20 FLA	WD-4E-UL	1-9	
VEF-1	PLYMOVENT	10	208V	THREE	26.1 FLA	TEV-585	10

- VEHICLE EXHAUST VENTILATION SYSTEM BASED ON SAFEAIR AND PLYMOVENT. CONTACT ACS, INC. 919.255.9344
- REFER TO SAFEAIR ELECTRICAL FLOW DIAGRAM AND NOTES FOR SYSTEM WIRING
- THE PURPOSE OF THE CENTRAL VENTILATION CONTROLLER IS TO CONTROL UP TO THREE DIFFERENT SETS OF BLOWERS, GENERAL VENTILATION FANS, AND FILTER ASSEMBLIES FOR THE PURPOSE OF MAINTAINING THE HIGHEST AIR QUALITY IN MANUFACTURING FACILITIES, WAREHOUSES, AND GARAGES.
- THE CONTROL UNIT CONSISTS OF A KEY-LOCKABLE NEMA3X FIBERGLASS CONTROL ENCLOSURE WHICH HOUSES A 24VAC CONTROL TRANSFORMER, MICROPROCESSOR BASED CIRCUIT BOARD, RADIO RECEIVER, A BACKUP BATTERY AND MISCELLANEOUS FUSES, TERMINALS, ETC. LOCATED ON THE OUTSIDE OF THE ENCLOSURE SHALL BE A SELF-ADHESIVE MEMBRANE KEYPAD/INDICATOR OVERLAY WITH ALL INDICATORS AND BUTTONS. A STACK LIGHT/ALARM WITH YELLOW AND RED INDICATORS AND A 84DB ALARM HORN. THE CONTROL BOX WILL MAINTAIN UL508A APPROVAL AND SHALL HAVE A UL/ETL SEAL.
- THE VEHICLE EXHAUST VENTILATION SYSTEM IS DESIGNED TO AUTOMATICALLY ENERGIZE EXHAUST FANS AND LOUVERS UPON THE ACTIVATION OF THE TOXIC GAS MONITORS AND SHALL REMAIN ACTIVATED UNTIL THE TOXIC GAS LEVEL FALLS BELOW THE TOXIC GAS PROGRAMMED. THE CO ACTIVATION THRESHOLD SHALL BE PROGRAMMED TO 35 PPM.
- ACS, INC SHALL SUPPLY CO AND NO2 COMBO SENSORS PER CONSTRUCTION DOCUMENTS. ARE LOCATED ON DRAWINGS AND ON SAFEAIR FLOW DIAGRAM
- ACS, INC SHALL SUPPLY PLYMOVENT FAN OLD SWITCHES. QUANTITIES QUANTITIES ARE LOCATED ON SAFEAIR FLOW DIAGRAM
- ACS, INC SHALL SUPPLY PV01 EXHAUST FAN RELAY SWITCH (EPRS). QUANTITIES ARE LOCATED ON SAFEAIR FLOW DIAGRAM.
- SYSTEM SHALL INCLUDE ALL CO/NO2 BOTTLE TESTING AND CALIBRATION
- THE VEHICLE EXHAUST VENTILATION SYSTEM IS DESIGNED TO AUTOMATICALLY ENERGIZE PLYMOVENT EXHAUST FAN VIA A PRESSURE TRANSMITTER KIT (QTY. OF 7)



PLYMOVENT SYSTEM INFORMATION
 PROVIDED BY
 ACS
 3701 BASTION LANE
 RALEIGH NC 27604
 919 255 9344

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1
M-04

VENTILATION CALCULATION

SPACE	CLASSIFICATION	AREA (SF)	DEFAULT OCCUPANCY (PEOPLE/1000 SF)	OUTDOOR AIR RATE (CFM/PERSON)	OUTDOOR AIR RATE (CFM/SF)	BREATHING ZONE VENTILATION (V _{BZ})	VENTILATION EFFECTIVENESS	ZONE VENTILATION (V _{OZ} +V _{BZ} /EZ)	PROVIDED BY
POLICE APPARATUS	ENGLISHED PARKING	1493	N/A	N/A	0.75	102	0.8	4212	EF-10 & LV-1

SPACE	CLASSIFICATION	AREA (SF)	DEFAULT OCCUPANCY (PEOPLE/1000 SF)	OUTDOOR AIR RATE (CFM/PERSON)	OUTDOOR AIR RATE (CFM/SF)	BREATHING ZONE VENTILATION (V _{BZ})	VENTILATION EFFECTIVENESS	ZONE VENTILATION (V _{OZ} +V _{BZ} /EZ)	PROVIDED BY
RELIQUOUS	Public Assembly Spaces	5,898.0	252.0	7.5	44.2	102	0.8	4212	EF-II & LV-2

Filter	Media	Filter Type	Filter Efficiency (%)	Filter Area (sq ft)	Filter Velocity (ft/min)	Filter Pressure Drop (in. H ₂ O)
1	150	HEPA	99.99	10	100	0.1
2	150	HEPA	99.99	10	100	0.1
3	150	HEPA	99.99	10	100	0.1

Filter	Media	Filter Type	Filter Efficiency (%)	Filter Area (sq ft)	Filter Velocity (ft/min)	Filter Pressure Drop (in. H ₂ O)
4	150	HEPA	99.99	10	100	0.1
5	150	HEPA	99.99	10	100	0.1
6	150	HEPA	99.99	10	100	0.1

Filter	Media	Filter Type	Filter Efficiency (%)	Filter Area (sq ft)	Filter Velocity (ft/min)	Filter Pressure Drop (in. H ₂ O)
7	150	HEPA	99.99	10	100	0.1
8	150	HEPA	99.99	10	100	0.1
9	150	HEPA	99.99	10	100	0.1

Filter	Media	Filter Type	Filter Efficiency (%)	Filter Area (sq ft)	Filter Velocity (ft/min)	Filter Pressure Drop (in. H ₂ O)
10	150	HEPA	99.99	10	100	0.1
11	150	HEPA	99.99	10	100	0.1
12	150	HEPA	99.99	10	100	0.1

Filter	Media	Filter Type	Filter Efficiency (%)	Filter Area (sq ft)	Filter Velocity (ft/min)	Filter Pressure Drop (in. H ₂ O)
13	150	HEPA	99.99	10	100	0.1
14	150	HEPA	99.99	10	100	0.1
15	150	HEPA	99.99	10	100	0.1

Filter	Media	Filter Type	Filter Efficiency (%)	Filter Area (sq ft)	Filter Velocity (ft/min)	Filter Pressure Drop (in. H ₂ O)
16	150	HEPA	99.99	10	100	0.1
17	150	HEPA	99.99	10	100	0.1
18	150	HEPA	99.99	10	100	0.1

Filter	Media	Filter Type	Filter Efficiency (%)	Filter Area (sq ft)	Filter Velocity (ft/min)	Filter Pressure Drop (in. H ₂ O)
19	150	HEPA	99.99	10	100	0.1
20	150	HEPA	99.99	10	100	0.1
21	150	HEPA	99.99	10	100	0.1

Filter	Media	Filter Type	Filter Efficiency (%)	Filter Area (sq ft)	Filter Velocity (ft/min)	Filter Pressure Drop (in. H ₂ O)
22	150	HEPA	99.99	10	100	0.1
23	150	HEPA	99.99	10	100	0.1
24	150	HEPA	99.99	10	100	0.1

Filter	Media	Filter Type	Filter Efficiency (%)	Filter Area (sq ft)	Filter Velocity (ft/min)	Filter Pressure Drop (in. H ₂ O)
25	150	HEPA	99.99	10	100	0.1
26	150	HEPA	99.99	10	100	0.1
27	150	HEPA	99.99	10	100	0.1

Filter	Media	Filter Type	Filter Efficiency (%)	Filter Area (sq ft)	Filter Velocity (ft/min)	Filter Pressure Drop (in. H ₂ O)
28	150	HEPA	99.99	10	100	0.1
29	150	HEPA	99.99	10	100	0.1
30	150	HEPA	99.99	10	100	0.1

Filter	Media	Filter Type	Filter Efficiency (%)	Filter Area (sq ft)	Filter Velocity (ft/min)	Filter Pressure Drop (in. H ₂ O)
31	150	HEPA	99.99	10	100	0.1
32	150	HEPA	99.99	10	100	0.1
33	150	HEPA	99.99	10	100	0.1

Filter	Media	Filter Type	Filter Efficiency (%)	Filter Area (sq ft)	Filter Velocity (ft/min)	Filter Pressure Drop (in. H ₂ O)
34	150	HEPA	99.99	10	100	0.1
35	150	HEPA	99.99	10	100	0.1
36	150	HEPA	99.99	10	100	0.1

Filter	Media	Filter Type	Filter Efficiency (%)	Filter Area (sq ft)	Filter Velocity (ft/min)	Filter Pressure Drop (in. H ₂ O)
37	150	HEPA	99.99	10	100	0.1
38	150	HEPA	99.99	10	100	0.1
39	150	HEPA	99.99	10	100	0.1

Filter	Media	Filter Type	Filter Efficiency (%)	Filter Area (sq ft)	Filter Velocity (ft/min)	Filter Pressure Drop (in. H ₂ O)
40	150	HEPA	99.99	10	100	0.1
41	150	HEPA	99.99	10	100	0.1
42	150	HEPA	99.99	10	100	0.1

Filter	Media	Filter Type	Filter Efficiency (%)	Filter Area (sq ft)	Filter Velocity (ft/min)	Filter Pressure Drop (in. H ₂ O)
43	150	HEPA	99.99	10	100	0.1
44	150	HEPA	99.99	10	100	0.1
45	150	HEPA	99.99	10	100	0.1

Filter	Media	Filter Type	Filter Efficiency (%)	Filter Area (sq ft)	Filter Velocity (ft/min)	Filter Pressure Drop (in. H ₂ O)
46	150	HEPA	99.99	10	100	0.1
47	150	HEPA	99.99	10	100	0.1
48	150	HEPA	99.99	10	100	0.1

Filter	Media	Filter Type	Filter Efficiency (%)	Filter Area (sq ft)	Filter Velocity (ft/min)	Filter Pressure Drop (in. H ₂ O)
49	150	HEPA	99.99	10	100	0.1
50	150	HEPA	99.99	10	100	0.1
51	150	HEPA	99.99	10	100	0.1

Filter	Media	Filter Type	Filter Efficiency (%)	Filter Area (sq ft)	Filter Velocity (ft/min)	Filter Pressure Drop (in. H ₂ O)
52	150	HEPA	99.99	10	100	0.1
53	150	HEPA	99.99	10	100	0.1
54	150	HEPA	99.99	10	100	0.1

Filter	Media	Filter Type	Filter Efficiency (%)	Filter Area (sq ft)	Filter Velocity (ft/min)	Filter Pressure Drop (in. H ₂ O)
55	150	HEPA	99.99	10	100	0.1
56	150	HEPA	99.99	10	100	0.1
57	150	HEPA	99.99	10	100	0.1

Filter	Media	Filter Type	Filter Efficiency (%)	Filter Area (sq ft)	Filter Velocity (ft/min)	Filter Pressure Drop (in. H ₂ O)
58	150	HEPA	99.99	10	100	0.1
59	150	HEPA	99.99	10	100	0.1
60	150	HEPA	99.99	10	100	0.1

Filter	Media	Filter Type	Filter Efficiency (%)	Filter Area (sq ft)	Filter Velocity (ft/min)	Filter Pressure Drop (in. H ₂ O)
61	150	HEPA	99.99	10	100	0.1
62	150	HEPA	99.99	10	100	0.1
63	150	HEPA	99.99	10	100	0.1

Filter	Media	Filter Type	Filter Efficiency (%)	Filter Area (sq ft)	Filter Velocity (ft/min)	Filter Pressure Drop (in. H ₂ O)
64	150	HEPA	99.99	10	100	0.1
65	150	HEPA	99.99	10	100	0.1
66	150	HEPA	99.99	10	100	0.1

Filter	Media	Filter Type	Filter Efficiency (%)	Filter Area (sq ft)	Filter Velocity (ft/min)	Filter Pressure Drop (in. H ₂ O)
67	150	HEPA	99.99	10	100	0.1
68	150	HEPA	99.99	10	100	0.1
69	150	HEPA	99.99	10	100	0.1

Filter	Media	Filter Type	Filter Efficiency (%)	Filter Area (sq ft)	Filter Velocity (ft/min)	Filter Pressure Drop (in. H ₂ O)
70	150	HEPA	99.99	10	100	0.1
71	150	HEPA	99.99	10	100	0.1
72	150	HEPA	99.99	10	100	0.1

Filter	Media	Filter Type	Filter Efficiency (%)	Filter Area (sq ft)	Filter Velocity (ft/min)	Filter Pressure Drop (in. H ₂ O)
73	150	HEPA	99.99	10	100	0.1
74	150	HEPA	99.99	10	100	0.1
75	150	HEPA	99.99	10	100	0.1

Filter	Media	Filter Type	Filter Efficiency (%)	Filter Area (sq ft)	Filter Velocity (ft/min)	Filter Pressure Drop (in. H ₂ O)
76	150	HEPA	99.99	10	100	0.1
77	150	HEPA	99.99	10	100	0.1
78	150	HEPA	99.99	10	100	0.1

Filter	Media	Filter Type	Filter Efficiency (%)	Filter Area (sq ft)	Filter Velocity (ft/min)	Filter Pressure Drop (in. H ₂ O)
79	150	HEPA	99.99	10	100	0.1
80	150	HEPA	99.99	10	100	0.1
81	150	HEPA	99.99	10	100	0.1

Filter	Media	Filter Type	Filter Efficiency (%)	Filter Area (sq ft)	Filter Velocity (ft/min)	Filter Pressure Drop (in. H ₂ O)
82	150	HEPA	99.99	10	100	0.1
83	150	HEPA	99.99	10	100	0.1
84	150	HEPA	99.99	10	100	0.1

Filter	Media	Filter Type	Filter Efficiency (%)	Filter Area (sq ft)	Filter Velocity (ft/min)	Filter Pressure Drop (in. H ₂ O)
85	150	HEPA	99.99	10	100	0.1
86	150	HEPA	99.99	10	100	0.1
87	150	HEPA	99.99	10	100	0.1

Filter	Media	Filter Type	Filter Efficiency (%)	Filter Area (sq ft)	Filter Velocity (ft/min)	Filter Pressure Drop (in. H ₂ O)
88	150	HEPA	99.99	10	100	0.1
89	150	HEPA	99.99	10	100	0.1
90	150	HEPA	99.99	10	100	0.1

Filter	Media	Filter Type	Filter Efficiency (%)	Filter Area (sq ft)	Filter Velocity (ft/min)	Filter Pressure Drop (in. H ₂ O)
91	150	HEPA	99.99	10	100	0.1
92	150	HEPA	99.99	10	100	0.1
93	150	HEPA	99.99	10	100	0.1

Filter	Media	Filter Type	Filter Efficiency (%)	Filter Area (sq ft)	Filter Velocity (ft/min)	Filter Pressure Drop (in. H ₂ O)
94	150	HEPA	99.99	10	100	0.1
95	150	HEPA	99.99	10	100	0.1
96	150	HEPA	99.99	10	100	0.1

Filter	Media	Filter Type	Filter Efficiency (%)	Filter Area (sq ft)	Filter Velocity (ft/min)	Filter Pressure Drop (in. H ₂ O)
97	150	HEPA	99.99	10	100	0.1
98	150	HEPA	99.99	10	100	0.1
99	150	HEPA	99.99	10	100	0.1

Filter	Media	Filter Type	Filter Efficiency (%)	Filter Area (sq ft)	Filter Velocity (ft/min)	Filter Pressure Drop (in. H ₂ O)
100	150	HEPA	99.99	10	100	0.1

2
M-04

PACKAGED UNIT SCHEDULE

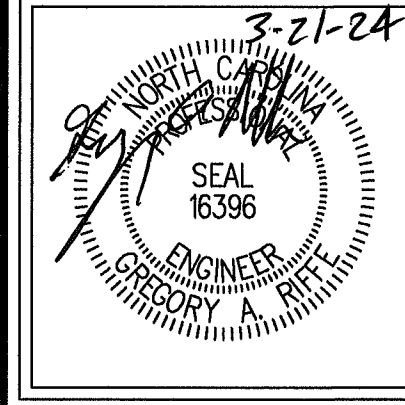
NO.	TOTAL CFM	O.A. CFM	COOL. CAP	HEAT. CAP.	GAS INPUT	VOLTAGE/PHASE	MCA	MOP	WEIGHT	SEER/EER	MAKE	MODEL
FU-1	1000	600	51 MBH	48.6 MBH	60 MBH	208 V-3Ø	30 A	45A	921 LBS	10.7	AACN	RQ-004-B-V-EA03-315
FU-2	1600	600	67.1 MBH	61 MBH	100 MBH	208 V-3Ø	35 A	50 A	968 LBS	11	AACN	RQ-006-B-H-EA03-335

- FIELD INSTALLED CONCENTRIC INTAKE/VENT ACCEPTABLE TO MANUFACTURER
- WITH CITY CONTROLS, INTEGRATED WITH CITY SYSTEM
- WITH HONEYWELL UV2400U1000 STERILIZATION
- FAN TO RUN CONTINUOUSLY

3
M-04

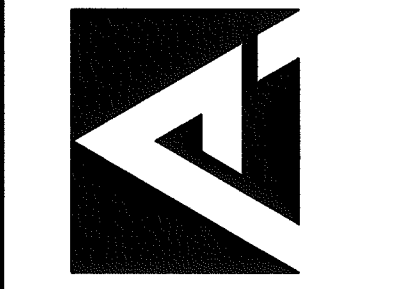
UNIT SCHEDULE

Furnace				Cased Coils				Condensing Units																			
Tag	BOBCH Model Number	Configuration	Alrflow	ESP	Motor	Input @ Sea Level	Output @ Sea Level	AFUE	Voltage	MCA	MOP	Tag	Model Number	Net Total Capacity	Net Sensible Capacity	APF	EDB	EUB	Tag	Model Number	Nominal Capacity	SEER	EER	Voltage	MCA	MOP	Cooling Outdoor DB
GF-1	BGH96M10E0C8B	UPFLOW	1600	0.8	0.75	120	95	95	15/1/60	1.5	20	DX-5	BMAC4248CNTF	58800	49200												



GAR Engineering
 P.O. BOX 264, HARRISBURG, NC 28025
 PHONE: (704) 721-6448 FAX: (704) 721-6459
 NC FIRM LICENSE NUMBER: C-131

PINNACLE ARCHITECTURE PROFESSIONAL ASSOCIATION
 701 EAST BAY STREET, SUITE 302
 CHARLESTON, SOUTH CAROLINA 29403
 MATTHEWS, NORTH CAROLINA 28106
 P.E.: (704) 847-9151 FAX: (704) 847-9153
 NC FIRM LICENSE NUMBER: C-131



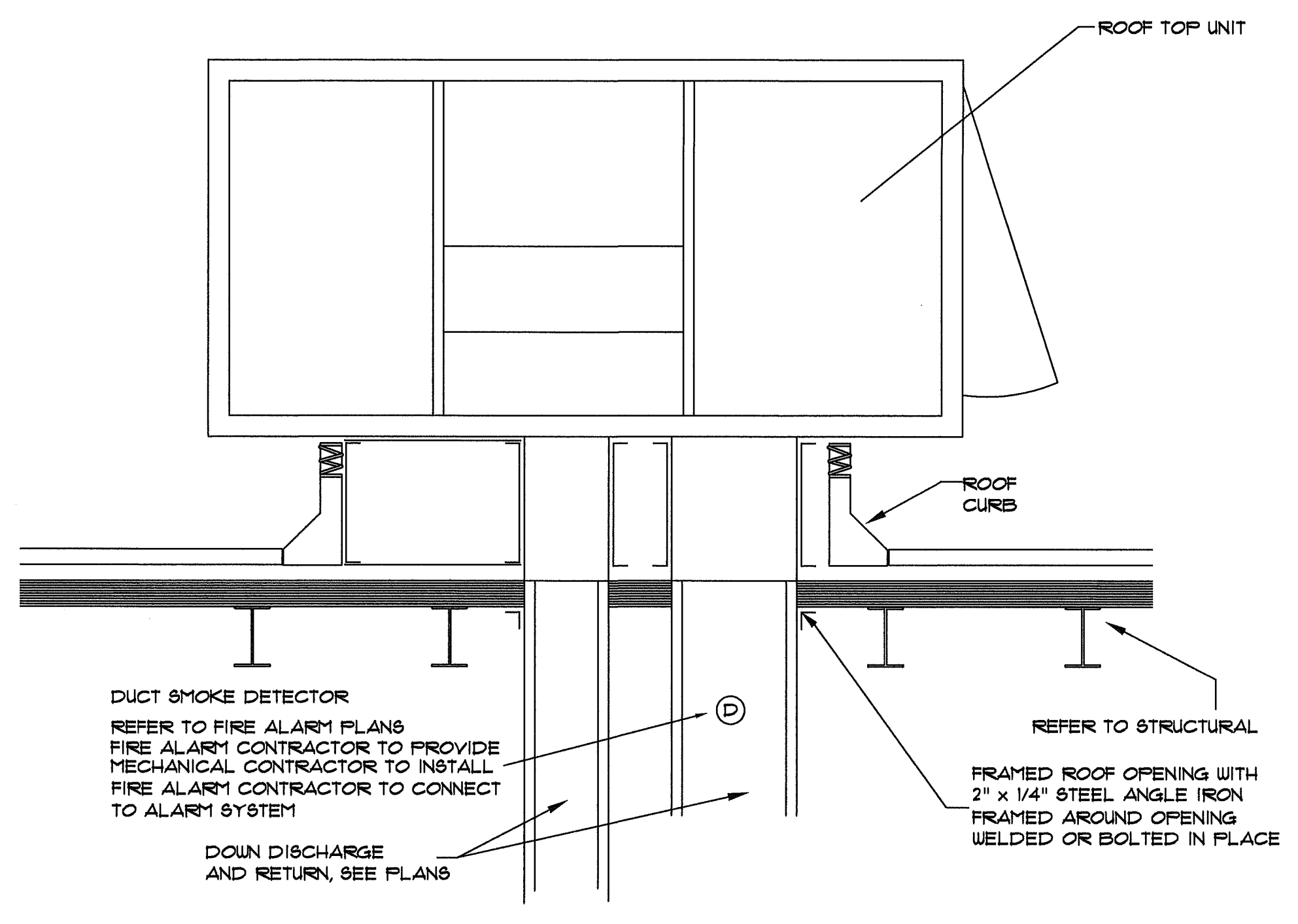
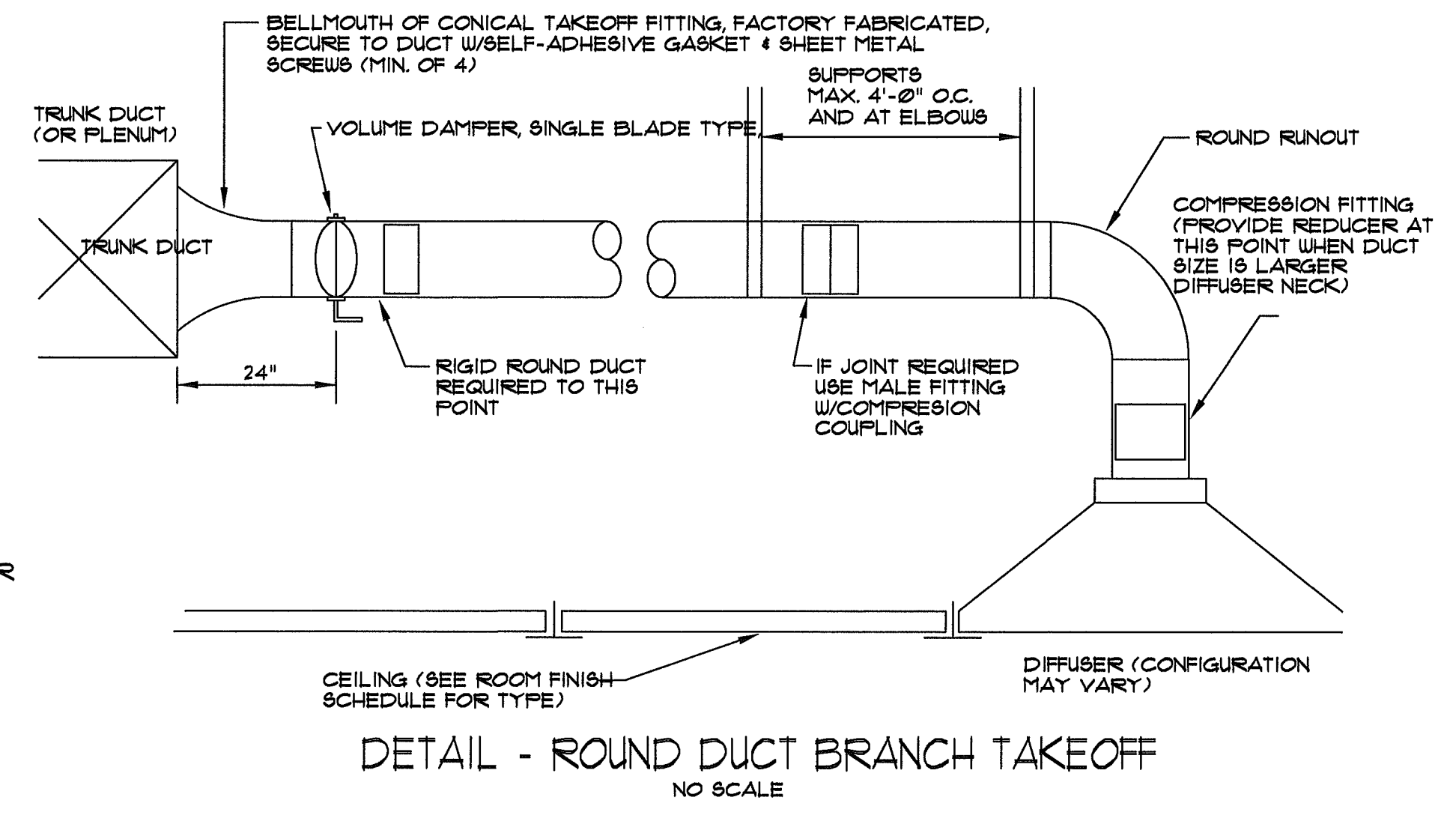
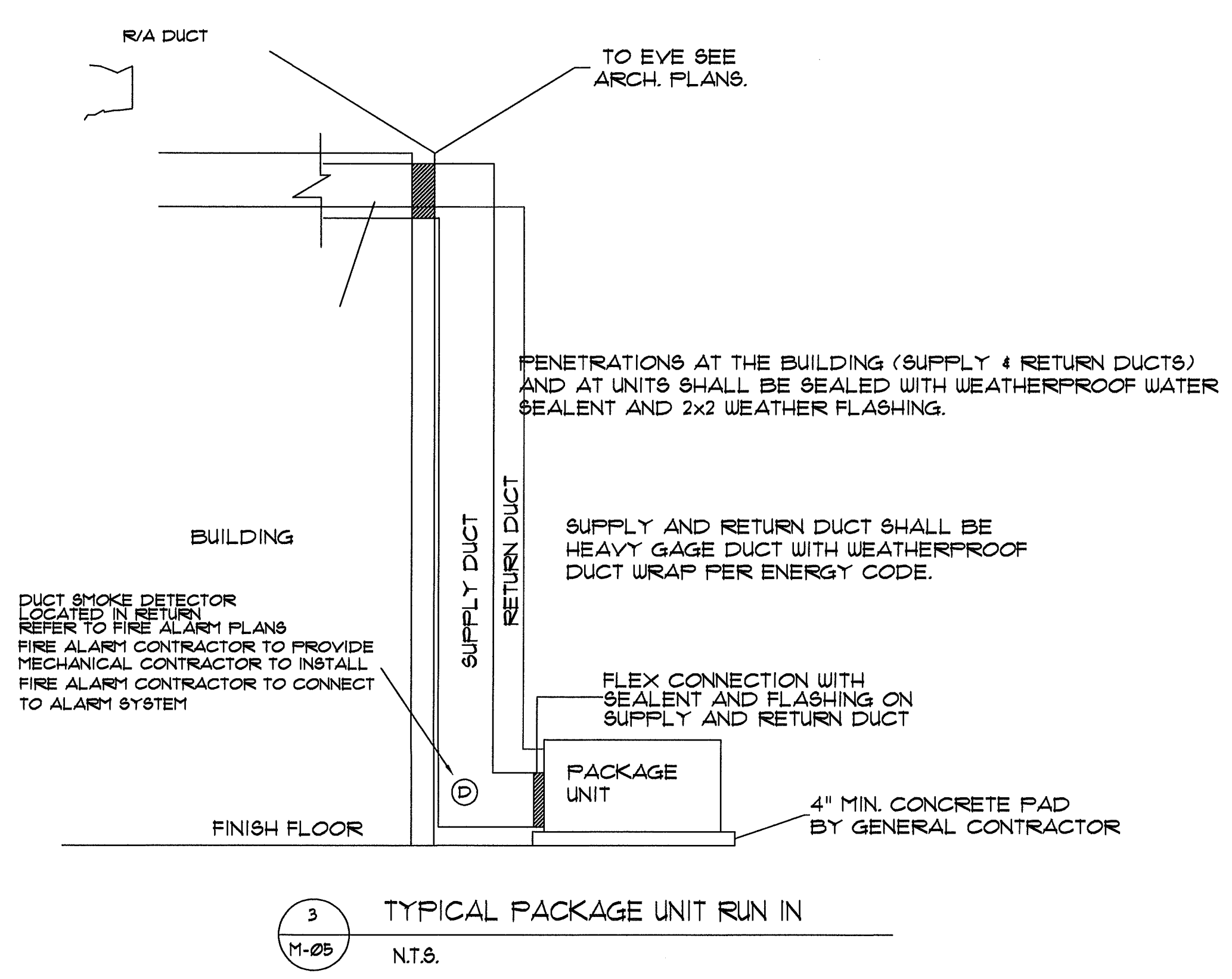
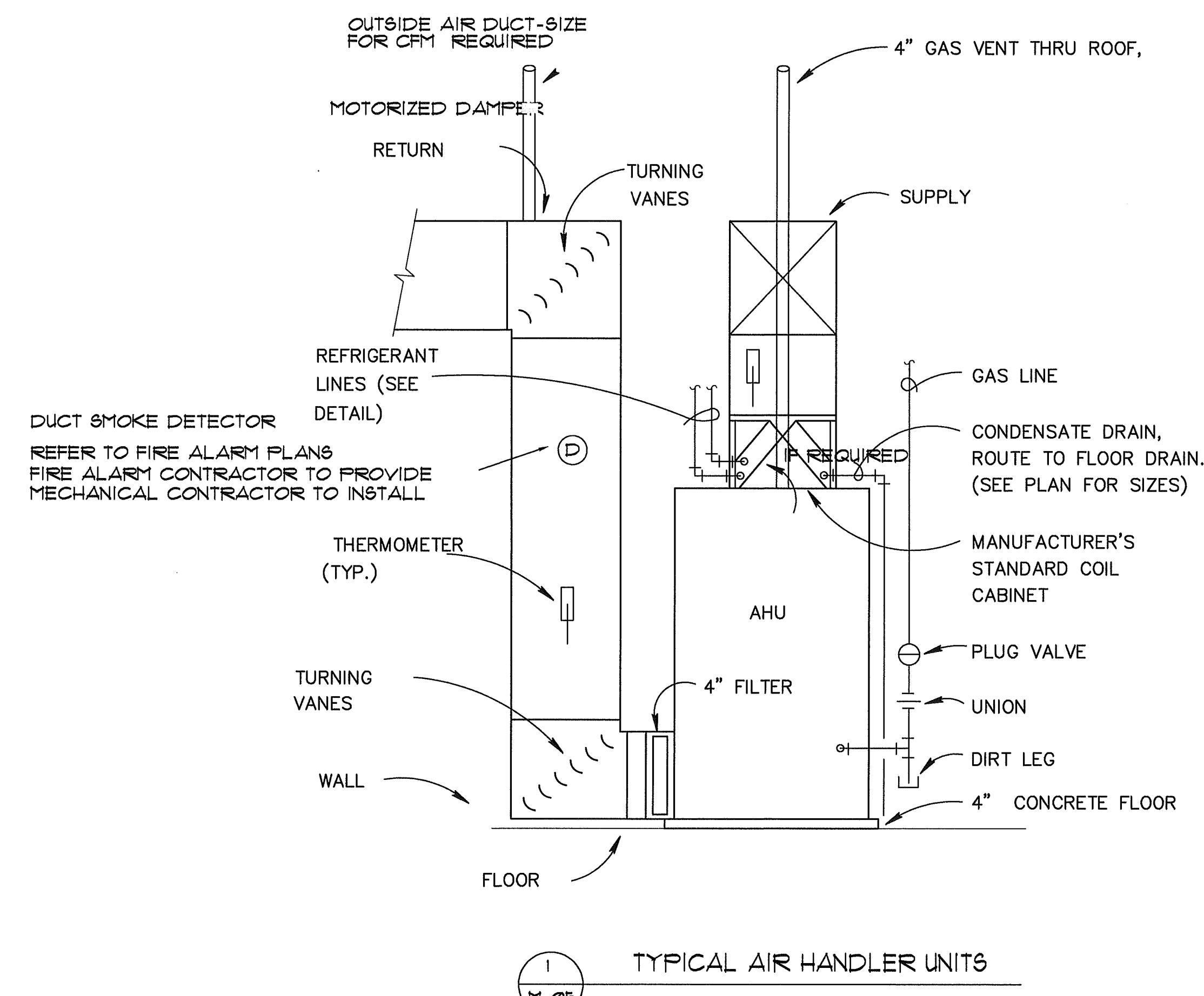
DRB
D. R. REYNOLDS COMPANY, INC.
 100 NORTH CAROLINA 27086
 STATE, NORTH CAROLINA 27086
 (910) 428-1360

ISSUE DATE: 11.30.23
 DRAWN BY: RWH
 CHECKED BY: GMS
 PROJECT: 2324

CONCORD FIRE STATION NO. 6
 DAVID DISTRICT - NEW FACILITY
 CONCORD, NC
 MECHANICAL NOTES & DETAILS

REVISION SCHEDULE	
DATE	REFERENCE

7-05

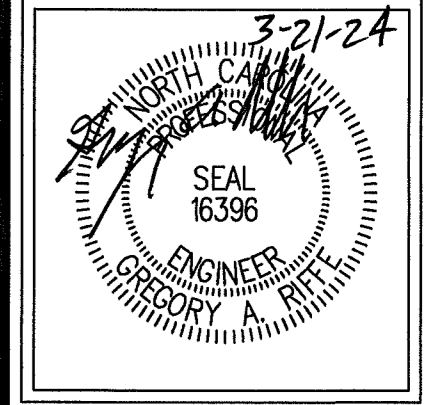
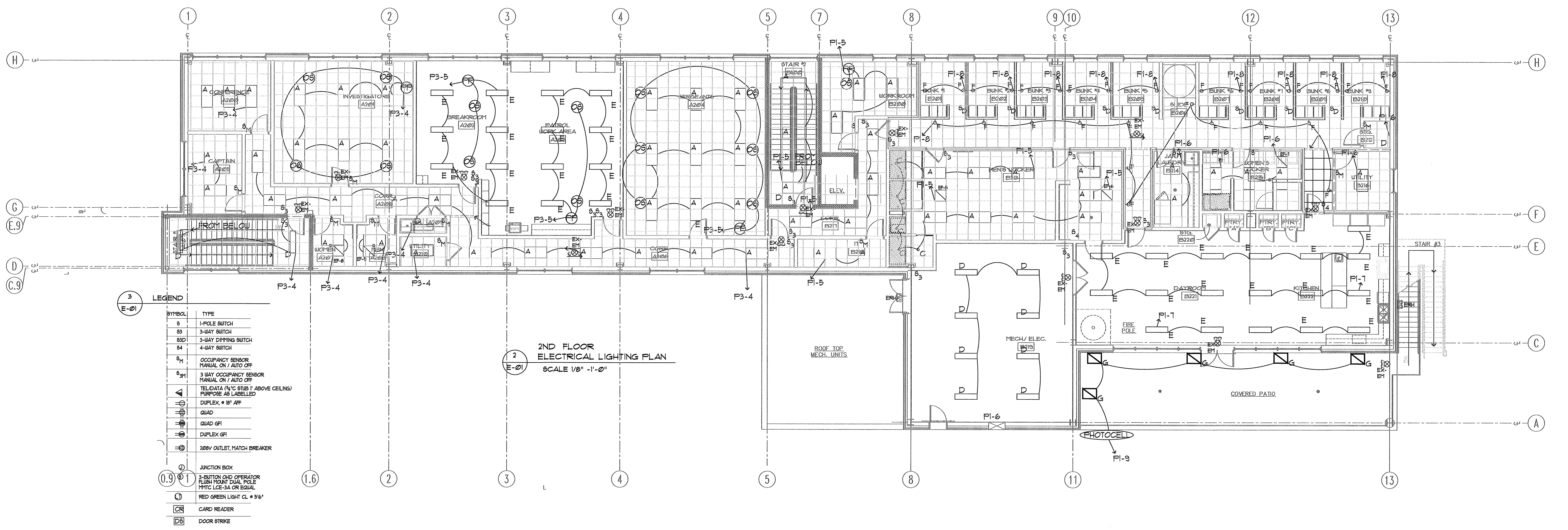
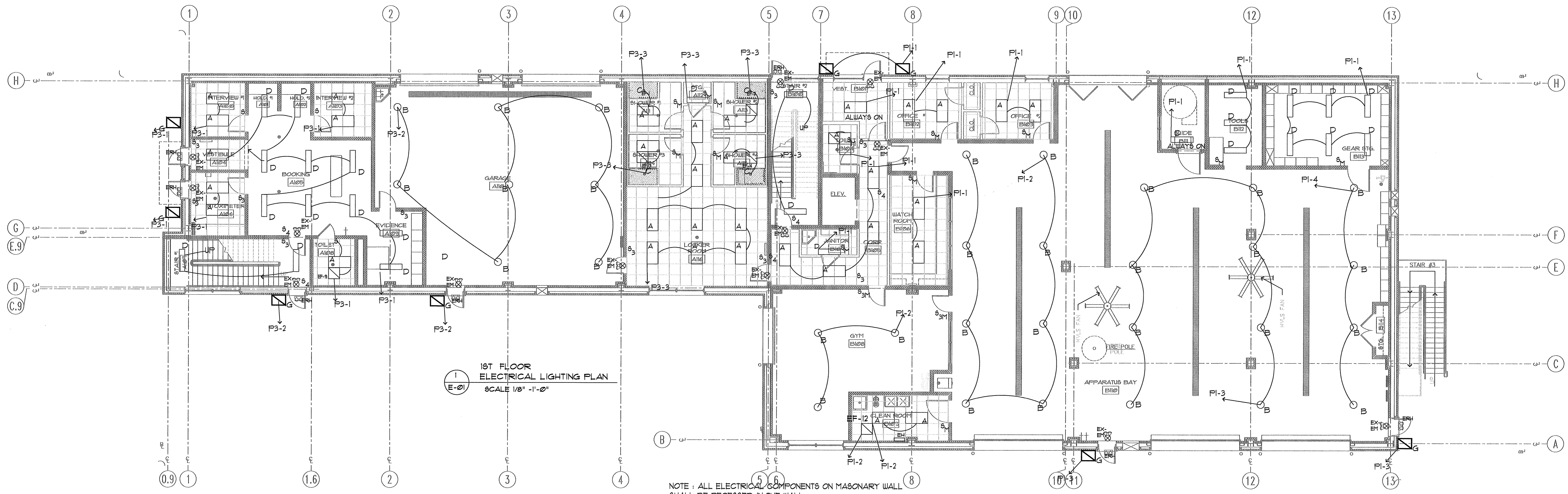


2
 M-05
MECHANICAL GENERAL NOTES

- DO NOT SCALE DRAWINGS. SEE ARCHITECTURAL DRAWINGS AND REFLECTED CEILING PLANS FOR EXACT LOCATION OF DOORS, WINDOWS, CEILING DIFFUSERS, ETC.
- ALL DUCTWORK SHALL BE GALVANIZED SHEET METAL CONSTRUCTED IN ACCORDANCE WITH THE LATEST SMACNA STANDARDS. ALL RECTANGULAR SUPPLY AND RETURN DUCTWORK AND ALL ROUND DUCT SHALL MEET THE REQUIREMENTS OF NC ENERGY CODE.
- CONDENSATE DRAIN PIPING SHALL BE HARD DRAIN COPPER (TYPE "L"), PVC ACCEPTED ALTERNATE.
- ALL PIPING, DUCTS, VENTS, ETC. EXTENDING THROUGH WALLS AND ROOF SHALL BE FLASHED AND GOUNTERLASHED IN A WATERPROOF MANNER. ALL BUILDING ASSEMBLIES SHALL BE PATCHED AND REPAIRED TO MATCH THE EXISTING OR IN COORDINATION WITH DIRECTION OF ARCHITECT.
- ALL PIPING AND DUCTWORK LOCATIONS SHALL BE COORDINATED WITH THE WORK UNDER OTHER DIVISIONS OF THE SPECIFICATIONS, TO AVOID INTERFERENCE.
- ANY DEVICE REQUIRING A THERMOSTAT FOR CONTROL SHALL BE FURNISHED WITH A THERMOSTAT (WHETHER INDICATED ON THE DRAWINGS OR NOT, IN COORDINATION WITH CONTROLS SUPPLIER).
- MECHANICAL CONTRACTOR SHALL BALANCE SYSTEM TO AIR QUANTITIES INDICATED ON PLANS.
- CONTRACTOR SHALL COORDINATE DESIGN DRAWINGS WITH ARCHITECTURAL DRAWINGS AND NOTIFY ENGINEER OF ANY DISCREPANCIES. THESE DESIGNS ARE BASED ON ARCHITECTURAL PLANS PROVIDED.
- THE CONTRACTOR SHALL GUARANTEE ALL MATERIALS, EQUIPMENT, AND WORKMANSHIP AGAINST ALL DEFECTS OF ANY DESCRIPTION FOR A PERIOD OF 12 MONTHS FROM THE DATE OF FINAL COMPLETION/ACCEPTANCE OF THE WORK. ANY PART OF THIS WORK TO BE FOUND DEFECTIVE DURING THE GUARANTEE PERIOD SHALL BE REPLACED BY THE CONTRACTOR AS SOON AS POSSIBLE AFTER NOTIFICATION AT NO EXTRA COST TO THE OWNER.
- CLEAR AREA DIMENSIONS. ANY FLEX DUCT WHICH RUNS OVER TEN FEET SHALL HAVE A R-VALUE OF 8.0. ANY FLEX DUCT WHICH RUNS IN ATTIC SPACE SHALL HAVE A R-VALUE OF 8.0.
- COORDINATE ELECTRICAL REQUIREMENTS OF THE UNITS WITH ELECTRICAL CONTRACTOR.
- ALL UNITS TO BE WIRED FOR SINGLE SOURCE POWER. ALL AIR HANDLERS SHALL HAVE AN AUTOMATIC SHUTDOWN SWITCH INSTALLED.
- REFRIGERANT LINES TO BE SIZED BY MANUFACTURE FOR LENGTH OF RUN BETWEEN COIL AND CONDENSER.
- MECHANICAL SYSTEM TO BE BALANCED AND TESTED AFTER INSTALLATION TO ASSURE PROPER OPERATION. PROVIDE CERTIFIED TAB REPORT TO ENGINEER AT PROJECT CLOSE OUT.
- THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL, AND EQUIPMENT REQUIRED FOR THE COMPLETION AND OPERATION OF ALL SYSTEMS IN THIS SECTION OF WORK IN ACCORDANCE WITH THE APPROVED EDITIONS OF THE 2018 NC MECHANICAL CODE BUILDING CODE, THE LOCAL ADMINISTRATIVE AUTHORITY, SMACNA STANDARDS, AND APPLICABLE NFPA CODES.
- COORDINATE WITH ARCHITECTURAL WORKING DRAWINGS PRIOR TO ROUGHING-IN.
- FIELD VERIFY ALL DIMENSIONS.

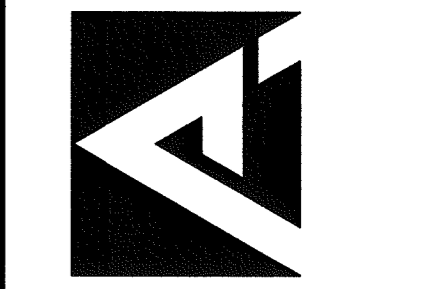
NOTES:
 INFORMATION SHOWN IN THIS DETAIL IS REPRESENTATIVE OF ALL INSTALLATIONS AND IS NOT MEANT TO SHOW DATA SPECIFIC TO ANY ONE SIZE UNIT. FOR ACTUAL INFO, I.E., DUCT SIZES AND DUCT ARRANGEMENT # UNIT, ETC., REFERENCE THE MECHANICAL DRAWINGS, EQUIPMENT SUBMITTALS, AND SPECIFICATIONS.

THIS DRAWING IS THE PROPERTY OF THE ARCHITECTS AND CAN NOT BE USED FOR CONSTRUCTION PURPOSES OR REPRODUCED WITHOUT WRITTEN CONSENT OF THE ARCHITECT.



GAR Engineering
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 NC FROM LICENSE NUMBER C-151

**PINNACLE ARCHITECTURE
 PROFESSIONAL ASSOCIATION**
 P.O. BOX 117, GUSTAFSON ROAD, SUITE 300
 MATTHEWS, NORTH CAROLINA 28106
 PHONE: (704) 841-9831 FAX: (704) 841-9833
 P.E.: (843) 872-5362 FAX: (843) 872-5374



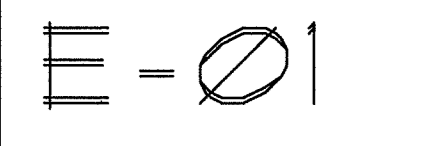
D.R. REYNOLDS COMPANY, INC.
 100 SOUTH COLLETT STREET
 WAKEFIELD, NORTH CAROLINA 27886
 (919) 428-1360

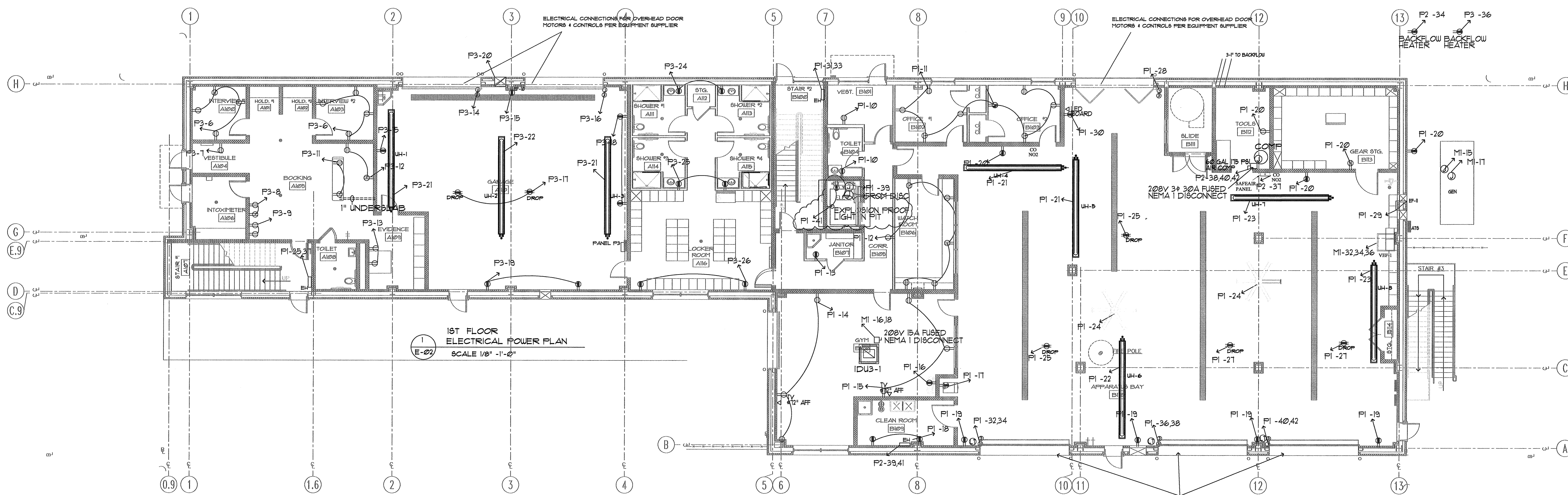
ISSUE DATE: 11.30.23
 DRAWN BY: RWH
 CHECKED BY: GSK
 PROJECT: 2304

CONCORD FIRE STATION NO. 6
 DAVID DISTRICT - NEW FACILITY
 CONCORD, NC
 ELECTRICAL LIGHTING PLAN

THIS DRAWING IS THE PROPERTY OF THE ARCHITECTS AND CAN NOT BE USED FOR CONSTRUCTION PURPOSES OR REPRODUCED WITHOUT WRITTEN CONSENT OF THE ARCHITECT.

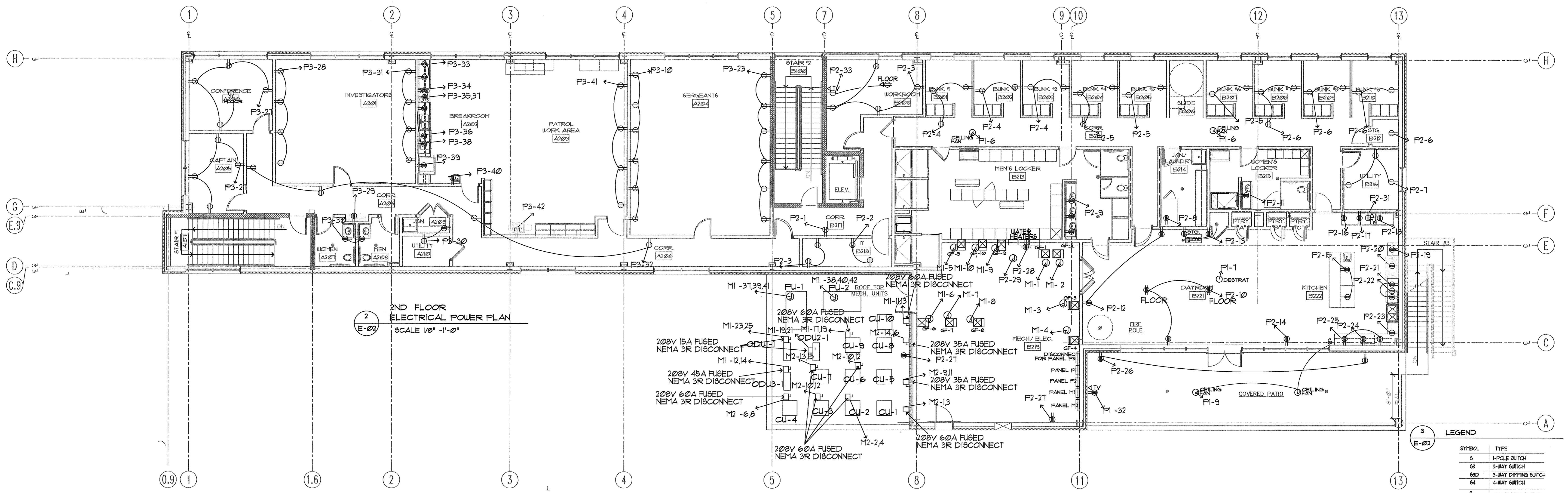
REVISION	DATE	REFERENCE





1
1ST FLOOR
ELECTRICAL POWER PLAN
SCALE 1/8" = 1'-0"

NOTE: ALL ELECTRICAL COMPONENTS ON MASONRY WALL SHALL BE RECESSED IN THE WALL.

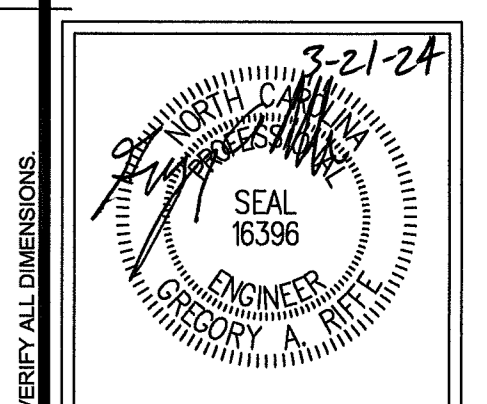


2
2ND FLOOR
ELECTRICAL POWER PLAN
SCALE 1/8" = 1'-0"

3
E-02

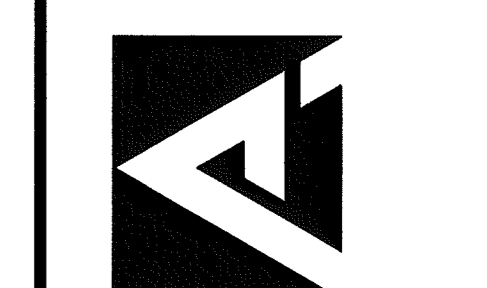
LEGEND

SYMBOL	TYPE
⊖	1-POLE SWITCH
⊖⊖	3-WAY SWITCH
⊖⊖⊖	3-WAY DIMMING SWITCH
⊖⊖⊖⊖	4-WAY SWITCH
⊖ _h	OCCUPANCY SENSOR MANUAL ON / AUTO OFF
⊖ _{3M}	3 WAY OCCUPANCY SENSOR MANUAL ON / AUTO OFF
⊖ _{TEL}	TEL. DATA (V/C) ABOVE CEILING PURPOSE AS LABELLED
⊖ _D	DUPLEX, # 18' AFF
⊖ _Q	QUAD
⊖ _{GI}	QUAD GFI
⊖ _{GI}	DUPLEX GFI
⊖ _{MB}	200V OUTLET MATCH BREAKER
⊖ _J	JUNCTION BOX
⊖ ₃	3-BUTTON ON/OFF OPERATOR FLUSH POINT DUAL POLE MTC LCE-3A OR EQUAL
⊖ _{RL}	RED LIGHT CL. # 9/8'
⊖ _{CR}	CARD READER
⊖ _{DB}	DOOR BUNK



GAR Engineering
 CONTRACTOR TO VERIFY ALL DIMENSIONS.
 PINNACLE ARCHITECTURE
 PROFESSIONAL ASSOCIATION
 701 EAST BAY STREET, SUITE 902
 CHARLESTON, SOUTH CAROLINA 29403
 P.O. BOX 564, WAREHOUSES, NC 28075
 P.O. BOX 241, EAST TEAM ROAD, SUITE 100
 MATTHEWS, NORTH CAROLINA 28106
 PE: (910) 841-9513 FAX: (910) 841-9513
 PE: (813) 871-5815 FAX: (813) 871-5774
 NC FROM LICENSE NUMBER C-151

PINNACLE ARCHITECTURE
 PROFESSIONAL ASSOCIATION
 701 EAST BAY STREET, SUITE 902
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 MATTHEWS, NORTH CAROLINA 28106
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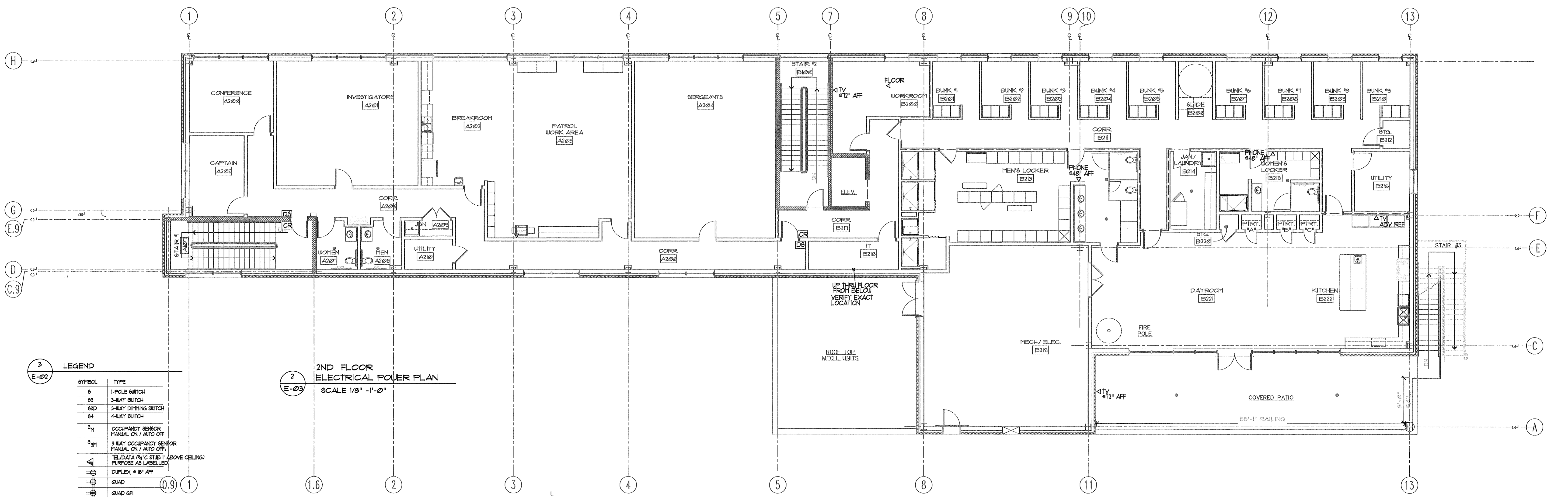
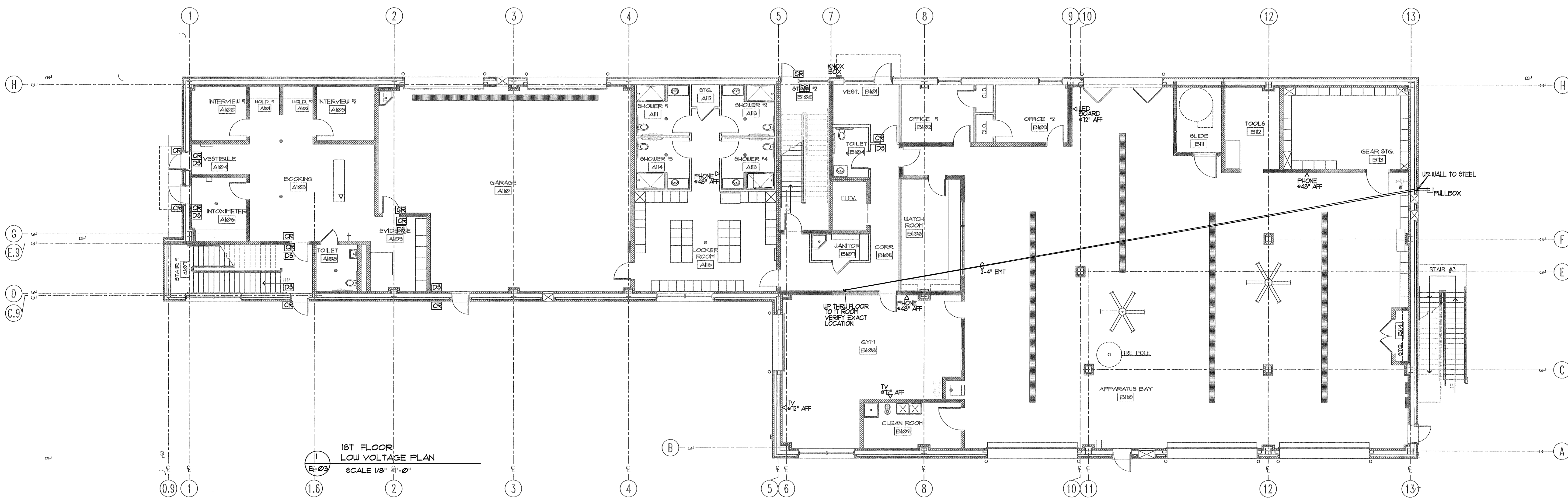
D.R. REYNOLDS COMPANY, INC.
 100 SOUTH CAROLINA STREET
 STARK, NORTH CAROLINA 27086
 (910) 425-1500

REVISION SCHEDULE
 DATE REFERENCE

CONCORD FIRE STATION NO. 6
 DAVID DISTRICT - NEW FACILITY
 CONCORD, NC
 ELECTRICAL POWER PLAN

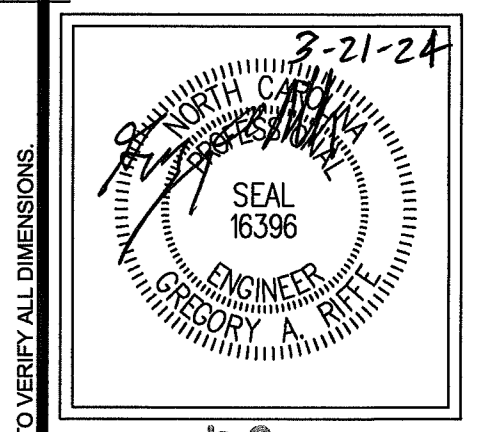
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 REVISION SCHEDULE
 DATE REFERENCE

E-02



3 LEGEND

SYMBOL	TYPE
⊖	1-POLE SWITCH
⊖	3-WAY SWITCH
⊖	3-WAY DIMMING SWITCH
⊖	4-WAY SWITCH
⊖	OCCUPANCY SENSOR MANUAL ON / AUTO OFF
⊖	3 WAY OCCUPANCY SENSOR MANUAL ON / AUTO OFF
⊖	TELEDATA (V/C) STRIP PURPOSE AS LABELLED
⊖	DUPLEX, # 12' AFF
⊖	QUAD
⊖	QUAD GFI
⊖	DUPLEX GFI
⊖	200V OUTLET, MATCH BREAKER
⊖	JUNCTION BOX
⊖	3-BUTTON GND OPERATOR FLUSH MOUNT DUAL POLE MTC LBS-3A OR EQUAL
⊖	RED GREEN LIGHT CL. # 5/8"
⊖	CARD READER
⊖	DOOR STRIKE



GAR Engineering
P.O. BOX 264, HARRISBURG, NC 28075
PHONE (704) 721-6446 FAX (704) 721-6499
NC PERM LICENSE NUMBER C-1331

PINNACLE ARCHITECTURE PROFESSIONAL ASSOCIATION
P.O. BOX 117, 603 TEAM ROAD SUITE 300
MATTHEWS, NORTH CAROLINA 28106
PH: (704) 847-3851 FAX: (704) 847-3853



D.R. REYNOLDS COMPANY, INC.
27500 STATE ROAD 285
STAR, NORTH CAROLINA 27586
(910) 428-1380

ISSUE DATE: 11.30.23
DRAWN BY: RWH
CHECKED BY: GAZ
PROJECT: 2324

CONCORD FIRE STATION NO. 6
DAVID DISTRICT - NEW FACILITY
CONCORD, NC
ELECTRICAL LOW VOLTAGE

REVISION SCHEDULE

NO.	DATE	REFERENCE

1
E-04
FIXTURE SCHEDULE
NTS

SYMBOL	TYPE	DESCRIPTION	FIXTURE WATTS	MOUNT	REF MAKE	REF MODEL
A	A	2' x 4' LED PANEL NOMINAL 3,300 LUMENS 120V	40W	GRID		LITHONIA EPANEL2X440L50K ALT LITHONIA 2BLT440L50K
B	B	LED HIGHBAYS 150W LED WITH OCC SENSER, 120V	150W	CLG		LITHONIA JEBL 10L 50K 80CRI WH
C	C	6" RECESSED CAN WITH (1) 11W LED LAMP 120V DAMP LABEL	11W	CLG		LITHONIA WF6 30K40K50K30CRIMUM16
D	D	LED STRIP, NOMINAL 33 W 120V	33W	CLG		LITHONIA CDS L48 MVOLT DM 50K 80CRI WH
E	E	LED LINEAR FIXTURE, NOMINAL 33 W 120V	33W	DROPPED		ALPHALITE ILA-4DB(40)-8AK-WH
F	F	LED WALL SCONCE 14W 120V	14W	WALL		KICHLER 52454NBR
G	G	EXTERIOR WALL LANTERN MAN DOOR 120V, PHOTOCELL CONTROLLED	11W	WALL		LITHONIA OLUP II PE BZ M4 21TAVG
H	H	EXTERIOR WALL PACK 120V, PHOTOCELL CONTROLLED	26W	WALL		LITHONIA OLW23
EM	EM	EMERGENCY DUAL HEAD WITH 90 MINUTE BATTERY BACKUP	2-8W	WALL		
ERH	ERH	EMERGENCY OUTDOOR REMOTE DUAL HEAD WITH 90 MINUTE BATTERY BACKUP, WET LABEL	2-8W	ABOVE DOOR		
EX-EM	EX-EM	EMERGENCY / EXIT LIGHT COMBO WITH RED LETTER STENCIL FACE AND 90 MINUTE BATTERY BACKUP	2-8W 1-2.3W	WALL		

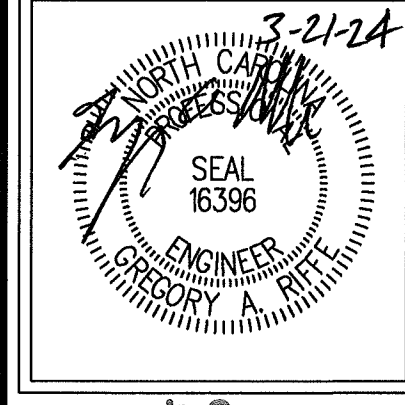
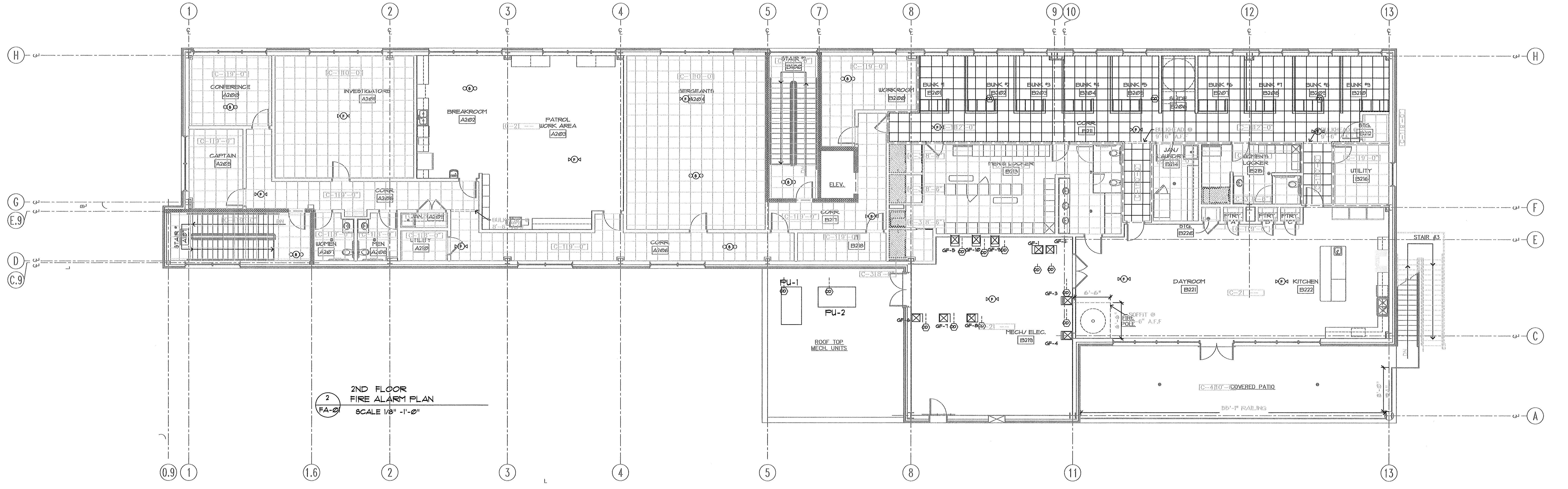
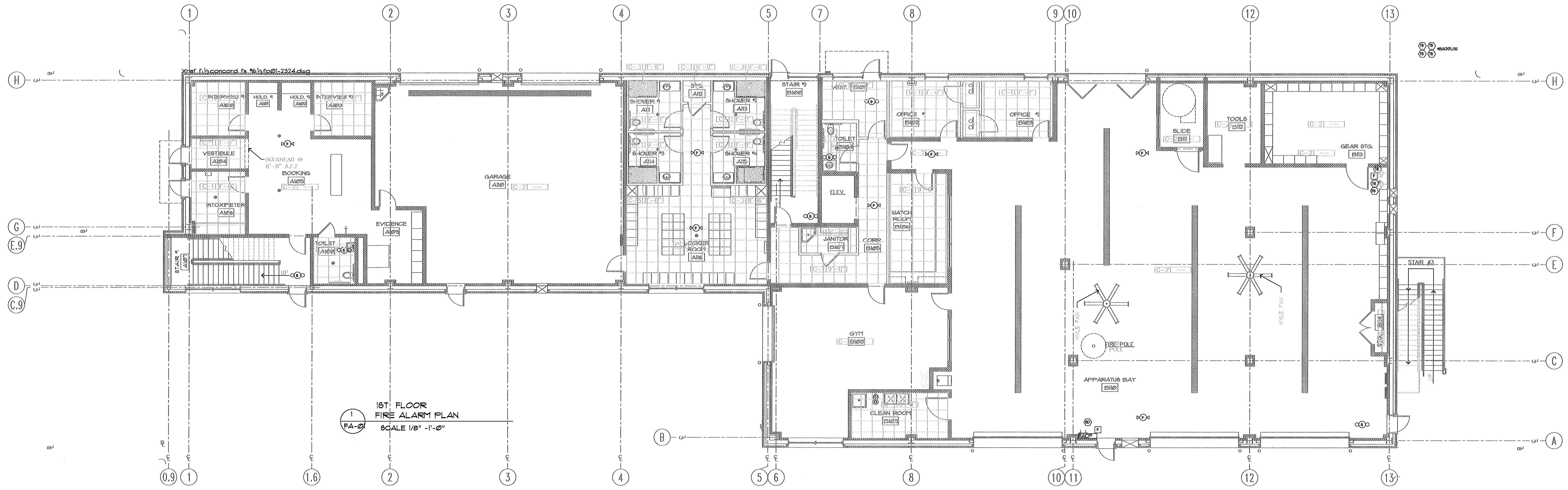
ALL FIXTURES TO BE APPROVED BY GENERAL CONTRACTOR AND OWNER PRIOR TO PURCHASE AND INSTALL.

PANEL DESIGNATION F1
VOLTAGE 208/120, 3φ, 4 WIRE
AMPERES 200

LOAD SERVED	CONN LOAD KVA			CIRCUIT BREAKER AMPS	POLES	CKT NO.	LOCATION MAIN PANEL MOUNTING			HVAC MCB SURFACE NEMA 1	LOAD SERVED
	A	B	C				NO.	AMPS	POLES		
LIGHTING DOWNSTAIRS	1	1	1	15	3	1	1	1	1		LIGHTING DOWNSTAIRS
LIGHTING UPSTAIRS	1	1	1	15	3	2	1	1	1		LIGHTING UPSTAIRS
RECEPTACLES DOWNSTAIRS	2	2	2	15	3	3	1	1	1		RECEPTACLES DOWNSTAIRS
RECEPTACLES UPSTAIRS	2	2	2	15	3	4	1	1	1		RECEPTACLES UPSTAIRS
WALL HEATER	12	12	12	120	2	5	1	1	1		WALL HEATER
WALL HEATER	15	15	15	120	2	6	1	1	1		WALL HEATER
ELEVATOR	15	15	15	120	2	7	1	1	1		ELEVATOR
ELEVATOR	15	15	15	120	2	8	1	1	1		ELEVATOR
SUB-TOTAL	43	36.5	36.5								211 KVA 11 AMP

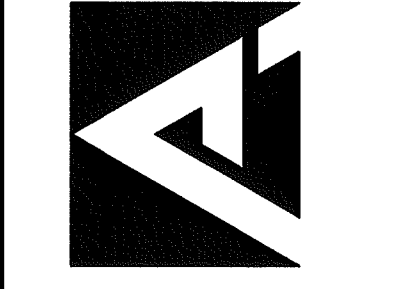
PANEL DESIGNATION F2
VOLTAGE 208/120, 3φ, 4 WIRE
AMPERES 200

LOAD SERVED	CONN LOAD KVA			CIRCUIT BREAKER AMPS	POLES	CKT NO.	LOCATION MAIN PANEL MOUNTING			HVAC MCB SURFACE NEMA 1	LOAD SERVED
	A	B	C				NO.	AMPS	POLES		
RECEPTACLES UPSTAIRS	2	1	1	15	3	1	1	1	1		RECEPTACLES UPSTAIRS
RECEPTACLES UPSTAIRS	2	1	1	15	3	2	1	1	1		RECEPTACLES UPSTAIRS
RECEPTACLES UPSTAIRS	2	1	1	15	3	3	1	1	1		RECEPTACLES UPSTAIRS
RECEPTACLES UPSTAIRS	2	1	1	15	3	4	1	1	1		RECEPTACLES UPSTAIRS
RECEPTACLES UPSTAIRS	2	1	1	15	3	5	1	1	1		RECEPTACLES UPSTAIRS
RECEPTACLES UPSTAIRS	2	1	1	15	3	6	1	1	1		RECEPTACLES UPSTAIRS
RECEPTACLES UPSTAIRS	2	1	1	15	3	7	1	1	1		RECEPTACLES UPSTAIRS
RECEPTACLES UPSTAIRS	2	1	1	15	3	8	1	1	1		RECEPTACLES UPSTAIRS
RECEPTACLES UPSTAIRS	2	1	1	15	3	9	1	1	1		RECEPTACLES UPSTAIRS
RECEPTACLES UPSTAIRS	2	1	1	15	3	10	1	1	1		RECEPTACLES UPSTAIRS
RECEPTACLES UPSTAIRS	2	1	1	15	3	11	1	1	1		RECEPTACLES UPSTAIRS
RECEPTACLES UPSTAIRS	2	1	1	15	3	12	1	1	1		RECEPTACLES UPSTAIRS
RECEPTACLES UPSTAIRS	2	1	1	15	3	13	1	1	1		RECEPTACLES UPSTAIRS
RECEPTACLES UPSTAIRS	2	1	1	15	3	14	1	1	1		RECEPTACLES UPSTAIRS
RECEPTACLES UPSTAIRS	2	1	1	15	3	15	1	1	1		RECEPTACLES UPSTAIRS
RECEPTACLES UPSTAIRS	2	1	1	15	3	16	1	1	1		RECEPTACLES UPSTAIRS
RECEPTACLES UPSTAIRS	2	1	1	15	3	17	1	1	1		RECEPTACLES UPSTAIRS
RECEPTACLES UPSTAIRS	2	1	1	15	3	18	1	1	1		RECEPTACLES UPSTAIRS
RECEPTACLES UPSTAIRS	2	1	1	15	3	19	1	1	1		RECEPTACLES UPSTAIRS
RECEPTACLES UPSTAIRS	2	1	1	15	3	20	1	1	1		RECEPTACLES UPSTAIRS
RECEPTACLES UPSTAIRS	2	1	1	15	3	21	1	1	1		RECEPTACLES UPSTAIRS
RECEPTACLES UPSTAIRS	2	1	1	15	3	22	1	1	1		RECEPTACLES UPSTAIRS
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RECEPTACLES UPSTAIRS	2	1	1	15	3	24	1	1	1		RECEPTACLES UPSTAIRS
RECEPTACLES UPSTAIRS	2	1	1	15	3	25	1	1	1		RECEPTACLES UPSTAIRS
RECEPTACLES UPSTAIRS	2	1	1	15	3	26	1	1	1		RECEPTACLES UPSTAIRS
RECEPTACLES UPSTAIRS	2	1	1	15	3	27	1	1	1		RECEPTACLES UPSTAIRS
RECEPTACLES UPSTAIRS	2	1	1	15	3	28	1	1	1		RECEPTACLES UPSTAIRS
RECEPTACLES UPSTAIRS	2	1	1	15	3	29	1	1	1		RECEPTACLES UPSTAIRS
RECEPTACLES UPSTAIRS	2	1	1	15	3	30	1	1	1		RECEPTACLES UPSTAIRS
RECEPTACLES UPSTAIRS	2	1	1	15	3	31	1	1	1		RECEPTACLES UPSTAIRS
RECEPTACLES UPSTAIRS	2	1	1	15	3	32	1	1	1		RECEPTACLES UPSTAIRS
RECEPTACLES UPSTAIRS	2	1	1	15	3	33	1	1	1		RECEPTACLES UPSTAIRS
RECEPTACLES UPSTAIRS	2	1	1	15	3	34	1	1	1		RECEPTACLES UPSTAIRS
RECEPTACLES UPSTAIRS	2	1	1	15	3	35	1	1	1		RECEPTACLES UPSTAIRS
RECEPTACLES UPSTAIRS	2	1	1	15	3	36	1	1	1		RECEPTACLES UPSTAIRS
RECEPTACLES UPSTAIRS	2	1	1	15	3	37	1	1	1		RECEPTACLES UPSTAIRS
RECEPTACLES UPSTAIRS	2	1	1	15	3	38	1	1	1		RECEPTACLES UPSTAIRS
RECEPTACLES UPSTAIRS	2	1	1	15	3	39	1	1	1		RECEPTACLES UPSTAIRS
RECEPTACLES UPSTAIRS	2	1	1	15	3	40	1	1	1		RECEPTACLES UPSTAIRS
RECEPTACLES UPSTAIRS	2	1	1	15	3	41	1	1	1		RECEPTACLES UPSTAIRS
RECEPTACLES UPSTAIRS	2	1	1	15	3	42	1	1	1		RECEPTACLES UPSTAIRS
RECEPTACLES UPSTAIRS	2	1	1	15	3	43	1	1	1		RECEPTACLES UPSTAIRS
RECEPTACLES UPSTAIRS	2	1	1	15	3	44	1	1	1		RECEPTACLES UPSTAIRS
RECEPTACLES UPSTAIRS	2	1	1	15	3	45	1	1	1		RECEPTACLES UPSTAIRS
RECEPTACLES UPSTAIRS	2	1	1	15	3	46	1	1	1		RECEPTACLES UPSTAIRS
RECEPTACLES UPSTAIRS	2	1	1	15	3	47	1	1	1		RECEPTACLES UPSTAIRS
RECEPTACLES UPSTAIRS	2	1	1	15	3	48	1	1	1		RECEPTACLES UPSTAIRS
RECEPTACLES UPSTAIRS	2	1	1	15	3	49	1	1	1		RECEPTACLES UPSTAIRS
RECEPTACLES UPSTAIRS	2	1	1	15	3	50	1	1	1		RECEPTACLES UPSTAIRS
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 PROJECT: 2324

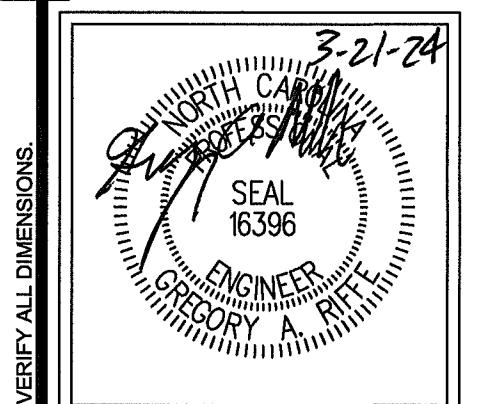
**CONCORD FIRE STATION NO. 6
 DAVID DISTRICT - NEW FACILITY
 CONCORD, NC
 FIRE ALARM PLAN**

REVISION	SCHEDULE
DATE	REFERENCE

FA-01

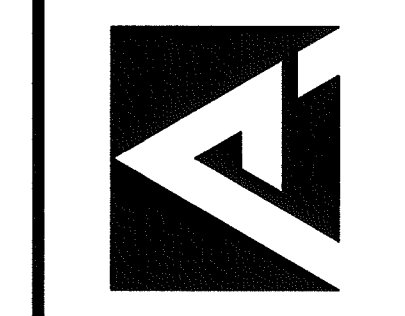
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CONTRACTOR TO VERIFY ALL DIMENSIONS.



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CONCORD FIRE STATION NO. 6
DAVID DISTRICT - NEW FACILITY
CONCORD, NC
FIRE ALARM NOTES & DETAILS

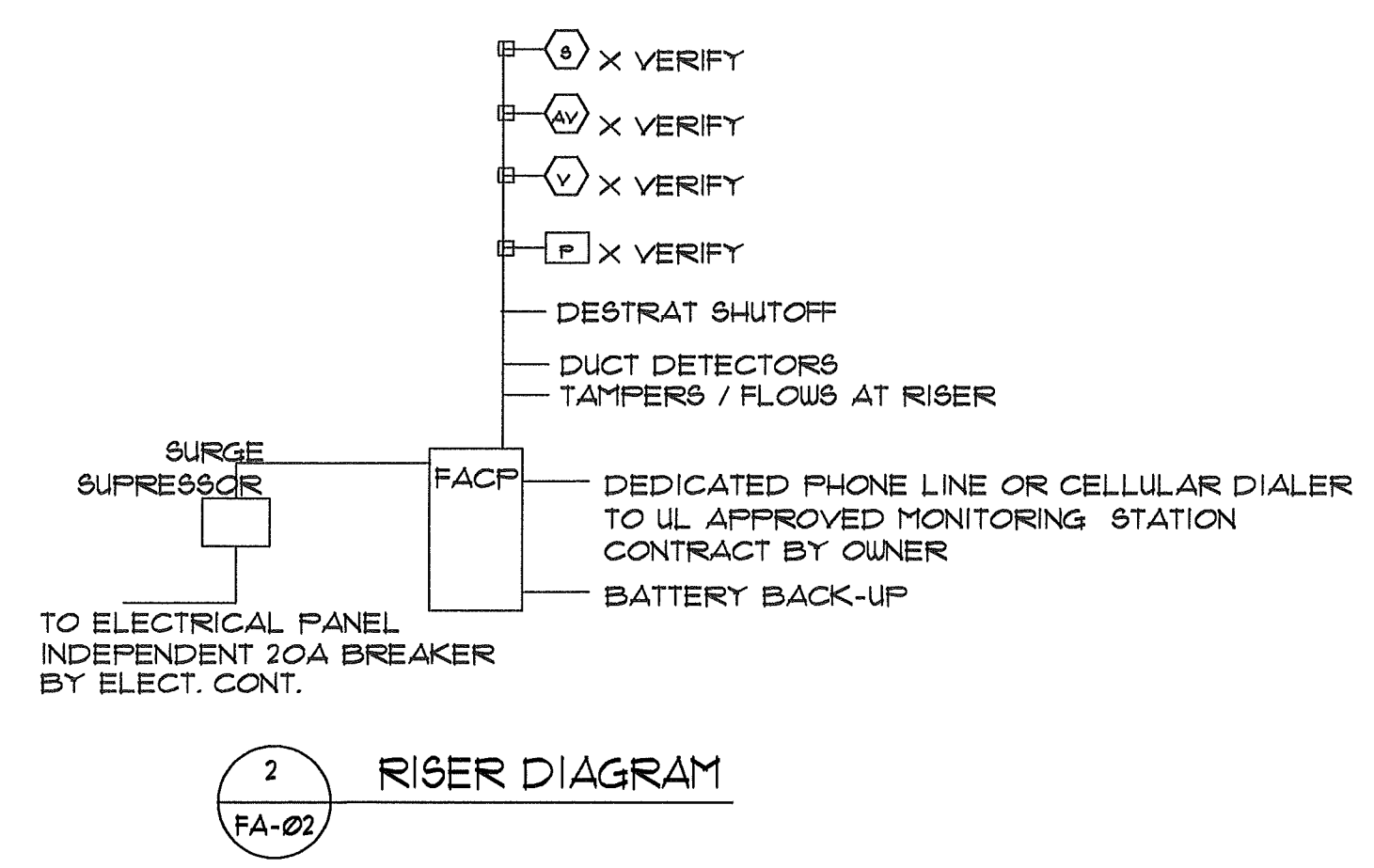
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NO.	DATE

FA-02

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3 FIRE ALARM SYMBOL LEGEND

FA-CP	FIRE ALARM CONTROL PANEL
FA-AN	FIRE ALARM ANNUNCIATOR
FA-FS	PULL STATION
FA-S	SMOKE DETECTOR
FA-H	HEAT DETECTOR
FA-C	COMBO SMOKE CO DETECTOR W/ LOW FREQ SOUNDER BASE
FA-TM	TAMPER MONITOR MODULE
FA-WL	WATER FLOW MONITOR MODULE
FA-R	RELAY MODULE
FA-D	DUCT MOUNTED SMOKE DETECTOR FOR DUCT SHUTDOWN FIELD VERIFY RELAY MODULE QUANTITIES AND LOCATIONS FOR SHUTDOWN
FA-A	AUDIOVISUAL CEILING MOUNT ALARM INDICATING APPLIANCE
FA-V	VISUAL CEILING MOUNT ALARM INDICATING APPLIANCE
FA-L	LOW FREQUENCY AUDIOVISUAL CEILING MOUNT ALARM INDICATING APPLIANCE

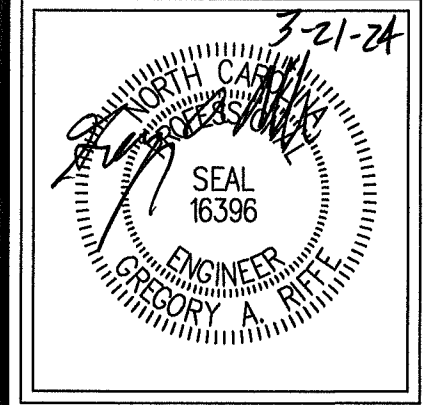
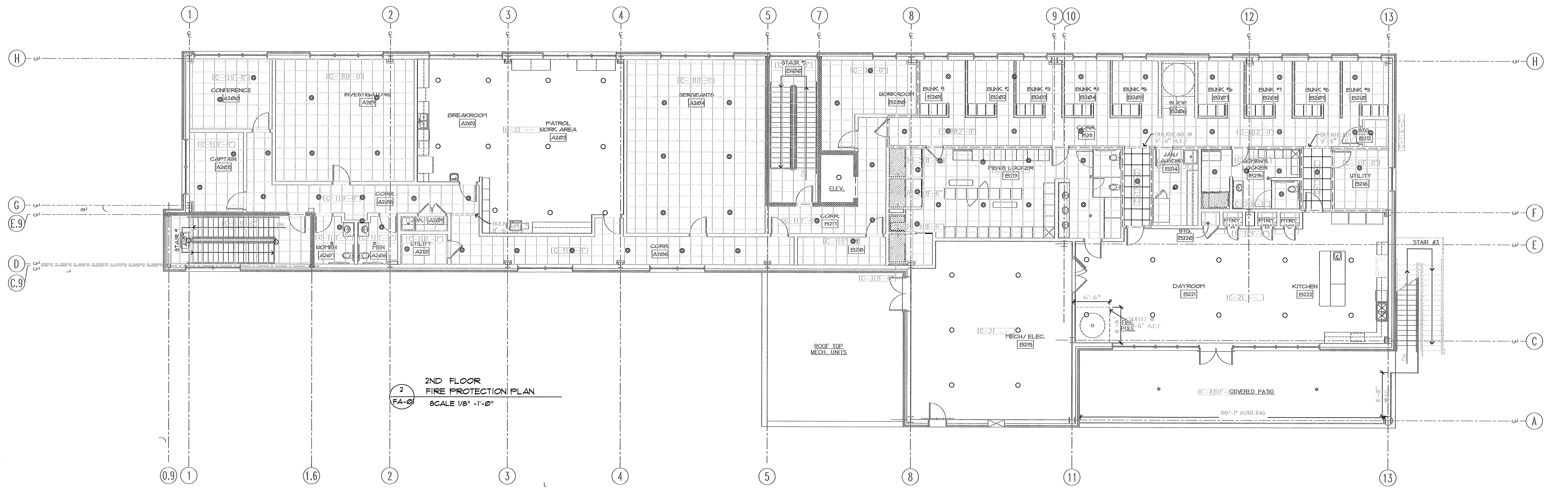
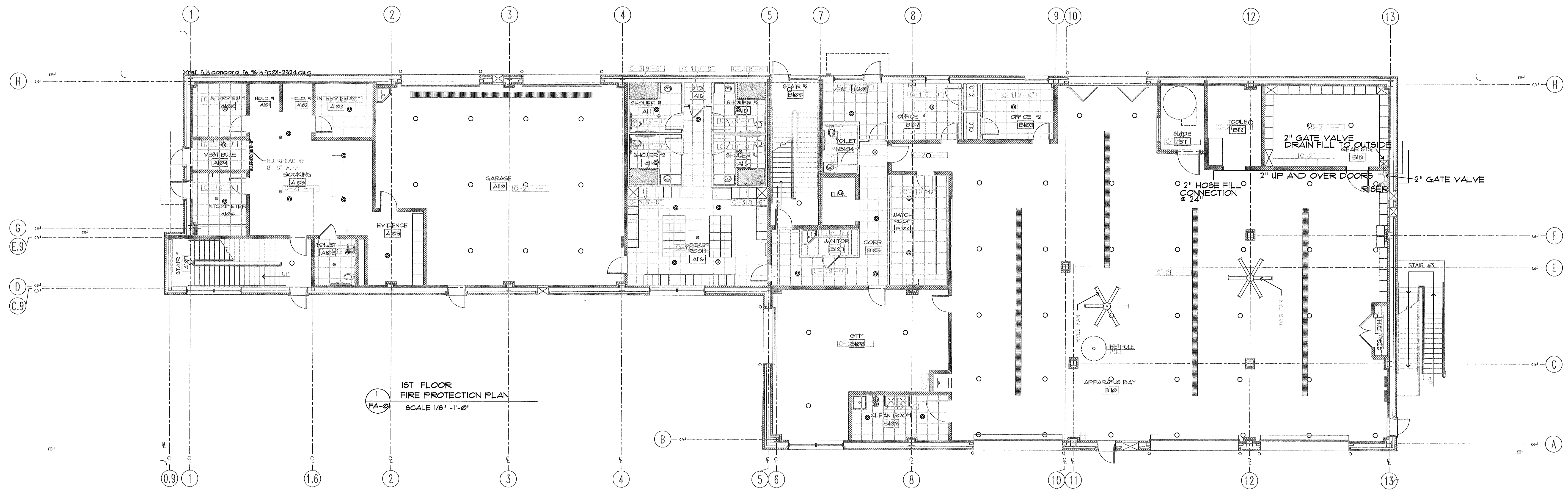


4 FIRE ALARM MATRIX

SYSTEM INPUTS	SYSTEM OUTPUTS	CENTRAL STATION
HEAT DETECTOR	ACTIVATE COMMON ALARM SIGNAL INDICATOR	✓
BUILDING SMOKE DETECTOR	ACTIVATE COMMON ALARM SIGNAL	✓
FIRE ALARM AC POWER FAILURE	ACTIVATE COMMON AUDIBLE SUPERVISORY SIGNAL	✓
FIRE ALARM SYSTEM LOW BATTERY	ACTIVATE COMMON TROUBLE SIGNAL INDICATOR	✓
OPEN CIRCUIT	ACTIVATE COMMON TROUBLE SIGNAL	✓
GROUND FAULT	ACTIVATE COMMON TROUBLE SIGNAL	✓
NOTIFICATION APPLIANCE CIRCUIT SHORT	ACTIVATE COMMON TROUBLE SIGNAL	✓
PULL STATION	ACTIVATE COMMON TROUBLE SIGNAL	✓
DUCT DETECTOR	ACTIVATE COMMON TROUBLE SIGNAL	✓
CO DETECTORS	ACTIVATE COMMON TROUBLE SIGNAL	✓

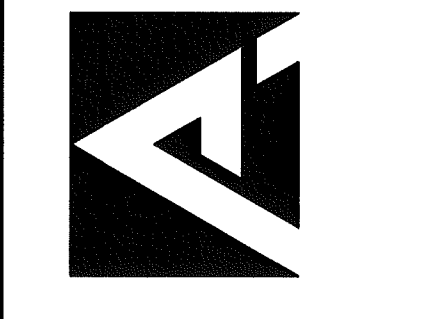
1 GENERAL FIRE ALARM NOTES

- ALL FIRE ALARM DEVICES SHALL BE INSTALLED BY A LICENSED FIRE ALARM COMPANY IN ACCORDANCE WITH THE NORTH CAROLINA BUILDING CODE, 2018 NFPA 72, AND ADA.
- ACTUATION OF ANY PULL STATION, SPRINKLER FLOW SWITCH, OR HEAT/SMOKE/DUCT DETECTORS SHALL ACTIVATE ALL ALARM SIGNALS.
- FIRE ALARM SYSTEM SHALL BE ADDRESSABLE, 12/24 VDC, POWER LIMITED, FULLY SUPERVISED WITH 24 HOUR STANDBY BATTERY.
- TESTING OF THE FIRE ALARM SYSTEM SHALL BE THE RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR. THE ENGINEER OR LOCAL AUTHORITY SHALL BE NOTIFIED 48 HOURS BEFORE PERFORMING FUNCTIONAL TEST FOR WITNESSES.
- PROVIDE A DUAL LINE AUTO-DIALER TO A UL APPROVED CENTRAL MONITORING STATION. PROVIDE (2) DEDICATED PHONE LINES.
- PROVIDE NONVOTROUBLE CIRCUITS AS REQUIRED. NO CIRCUIT SHALL BE LOADED MORE THAN 10% PRIOR TO FINAL INSPECTION TO ALLOW UNITS TO BE ADDED AS MAY BE REQUIRED BY LOCAL AUTHORITY.
- VERIFY QUANTITIES PER PLANS AND REQUIREMENTS OF LOCAL AUTHORITY HAVING JURISDICTION TO ASSURE THAT BID INCLUDES ALL WORK REQUIRED TO OBTAIN CERTIFICATION OF OCCUPANCY.
- COORDINATE WITH SPRINKLER CONTRACTOR FOR QUANTITY OF FLOW AND TAMPER SWITCHES, MONITORING POINT AND THEIR EXACT LOCATIONS. THIS INCLUDES DOUBLE CHECK VALVES/BACKFLOW PREVENTER ASSEMBLIES WHICH MAY BE LOCATED OUTSIDE OF BUILDING.
- FIRE ALARM ANNUNCIATOR PANELS IF NEEDED SHALL BE APPROVED BY THE LOCAL FIRE MARSHAL.
- ALL VISUAL DEVICES IN A COMMON YEILING AREA SHALL BE SYNCHRONIZED.
- FIRE ALARM CONTRACTOR SHALL VERIFY QUANTITIES AND LOCATION OF ADDITIONAL POWER SUPPLY PANELS WHEN FINAL VOLTAGE AND BATTERY CALCULATIONS ARE COMPLETE.
- FIRE ALARM CONTRACTOR SHALL VERIFY WITH OWNER AND FIRE MARSHAL WITH LOCATION OF SPEAKERS FOR THE VOICE EVACUATION CONTROL PANEL. - NOT IN THIS CONTRACT
- MANUAL PULL STATIONS SHALL BE INSTALLED WITH TAMPER PROOF COVERS.
- ELECTRICAL CONTRACTOR TO PROVIDED AUTHORITY HAVING JURISDICTION WITH FIRE ALARM SYSTEM INSTALLATION PLANS FOR FINAL APPROVAL PRIOR TO INSTALLATION.
- PROVIDE CONNECTION TO ALL FIREWALL DOOR HOLD OPENS AS REQUIRED. DOORS TO CLOSE UPON FIRE ALARM ACTIVATION.
- PROVIDE DUCT DETECTORS TO ALL HVAC UNITS OVER 2000 CFM AS REQUIRED. ALL UNITS TO SHUT DOWN ON FIRE ALARM ACTIVATION.
- THE CONTRACTOR SHALL PROVIDE ENGINEER WITH AS-BUILT AT PROJECT CLOSE OUT
- IN ACCORDANCE WITH 2018 NORTH CAROLINA FIRE CODE 510 APPROVED EMERGENCY RADIO COVERAGE SHALL BE PROVIDED WITHIN THE BUILDING.
- PROVIDE A SHOP DRAWING DESIGN FOR A DISTRIBUTED ANTENNA SYSTEM WITH AMPLIFIER TO COVER THE ENTIRE STRUCTURE IN A MANNER COMPLIANT WITH 910.4. THE SYSTEM SHALL INCLUDE BATTERY CAPACITY FOR A MINIMUM OF 24 HOURS OF OPERATION AND THE SHOP DRAWINGS SHALL INCLUDE BATTERY SIZING CALCULATIONS, RACEWAY, WITH PULL STRINGS, FOR THE SYSTEM SHALL BE INSTALLED AS PART OF THE BASE BID.
- FIELD TESTING SHALL BE PERFORMED BY THE OWNER AT (OR NEAR) SUBSTANTIAL COMPLETION OF THE BUILDING PER 2018 NCG 510.3, AND TEST RECORDS SHALL BE PROVIDED TO FIRE MARSHAL FOR ACCEPTANCE.
- IF COVERAGE IS NOT DEEMED TO BE ACCEPTABLE BY THE FIRE MARSHAL THEN THE AMPLIFIER, CONDUCTORS, AND ALL ADDITIONAL REQUIRED SYSTEM PARTS SHALL BE PROVIDED IN ACCORDANCE WITH THE SHOP DRAWINGS AND SECTION 910.3, INCLUDING OBTAINING A PERMIT PER 910.3. THE SYSTEM SHALL BE RETESTED BY THE OWNER PER 910.3, AND TEST RECORDS SHALL BE PROVIDED TO THE FIRE MARSHAL FOR ACCEPTABLE.



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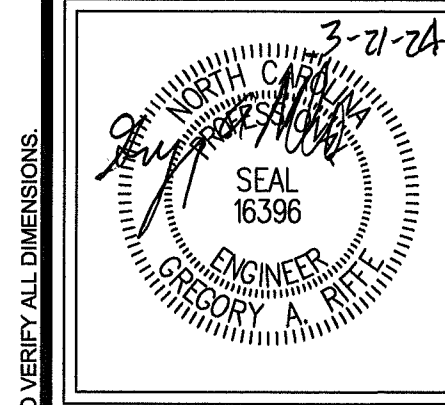
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 PROJECT: 2324

CONCORD FIRE STATION NO. 6
 DAVID DISTRICT - NEW FACILITY
 CONCORD, NC
 FIRE PROTECTION PLAN

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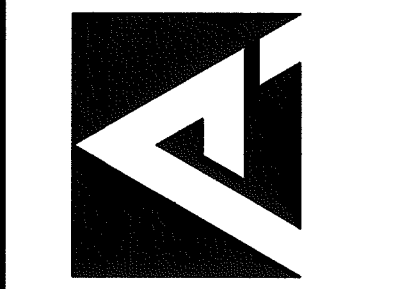
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CONCORD FIRE STATION NO. 6
 DAVID DISTRICT - NEW FACILITY
 CONCORD, NC
 FIRE PROTECTION
 NOTES & DETAILS

REVISION SCHEDULE	
DATE	REFERENCE

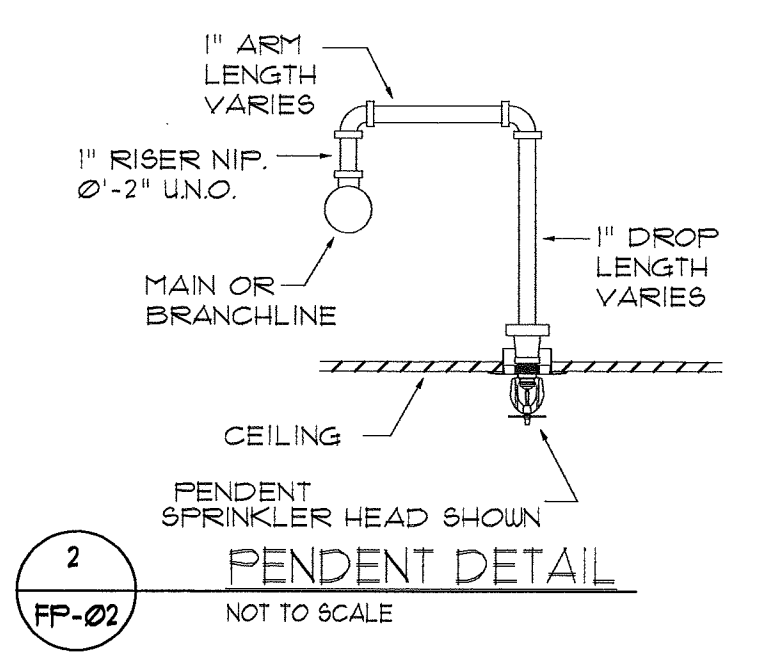
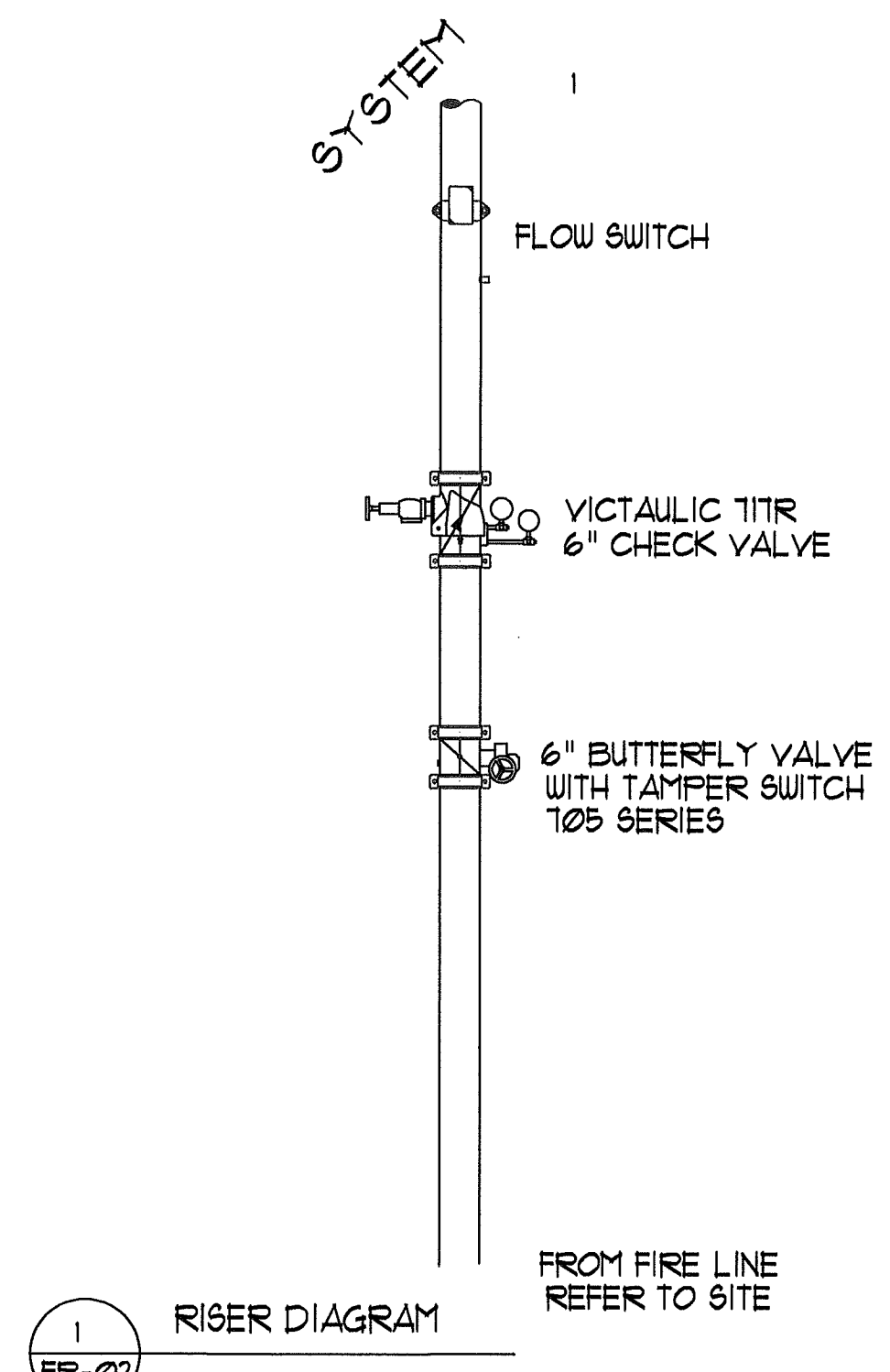
FP-02

3
 FP-02
SPRINKLER SYSTEM NOTES

- SPRINKLER SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH 2013 NFPA 13 AND ALL STATE AND LOCAL CODES.
- LIGHT HAZARD AREAS SHALL BE 1 GFM OVER MOST HYDRAULICALLY REMOTE 1500 SQ FT WITH HOSE STREAMS
 ORD. HAZARD GRP 1 AREAS SHALL BE .15GFM OVER MOST HYDRAULICALLY REMOTE 1500 SQ FT WITH HOSE STREAMS
- TOTAL SYSTEM AREA: TOTAL AREA APPROX 22690 SQ FT
- PIPING 1/2" AND LARGER SHALL BE BLACK STEEL SCHEDULE 10 JOINED WITH GROOVED CAST IRON FITTINGS.
- PIPING 1/4" AND SMALLER SHALL BE BLACK STEEL SCHEDULE 40 JOINED WITH CAST IRON FITTINGS.
- HANGERS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 13.
- ALL WORK SHALL BE PERFORMED BY A CONTRACTOR LICENSED IN THE STATE OF NORTH CAROLINA.
- ALL SUBMITTALS SHALL BE PROVIDED TO THE ENGINEER FOR APPROVAL
- UPON COMPLETION ALL "AS-BUILT" DRAWINGS AND MATERIAL AND TEST CERTIFICATES SHALL BE PROVIDED TO THE ENGINEER FOR PROJECT COMPLETION.
- DRAWINGS ARE SCHEMATIC IN NATURE. SPRINKLER CONTRACTOR SHALL PROVIDE SYSTEM DESIGN FOR FULLY OPERATIVE SYSTEM INCLUDING AND COMPONENTS AND TRIM, AND IN COMPLIANCE WITH ALL APPLICABLE CODES

4
 FP-02
SPRINKLER HEAD SCHEDULE
 NTS

SYMBOL	STYLE	TEMPERATURE	ORIFICE	K-FACTOR	FINISH	MAKE	MODEL	TOTAL
⊙	PENDENT	155	1/2	5.6	VC-250	VICTAULIC	V2103	VERIFY
○	UPRIGHT	155	1/2	5.6	VC-250	VICTAULIC	V2104	VERIFY
◊	DRY SIDEWALL	155	1/2	5.6	VC-250	VICTAULIC	V3603	VERIFY



SPRINKLERS