

NCDOT LUMBERTON EQUIPMENT SHOP

872 NC HIGHWAY 711, LUMBERTON, NORTH CAROLINA 28360
 ROBESON COUNTY
 NC DEPARTMENT OF TRANSPORTATION,
 HIGHWAYS DIVISION 6

SCO ID #: 16-12916-01A

DESIGNERS:

ARCHITECT OF RECORD

MARK D. GIBSON, RA (919) 707-4550
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 FACILITIES MANAGEMENT UNIT mdgibson1@ncdot.gov

STRUCTURAL ENGINEER OF RECORD

MICHAEL D. MOUNTCASTLE, P.E. (919) 707-4547
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 FACILITIES MANAGEMENT UNIT mdmountcastle@ncdot.gov

CIVIL ENGINEER OF RECORD

AMBER FARRELLY, P.E., B & F CONSULTING (919) 389-8102
 amber.farrelly@bandfconsulting.com

PLUMBING / MECHANICAL / ELECTRICAL / FIRE PROTECTION ENGINEERS OF RECORD

WILLIAM L. ALDRIDGE, P.E., DEVITA & ASSOCIATES INC. (704) 335-0396
 baldridge@devita-inc.com
 MARY WOOTEN HUMISTON, P.E., DEVITA & ASSOCIATES INC. (704) 335-0396
 kimh@devita-inc.com

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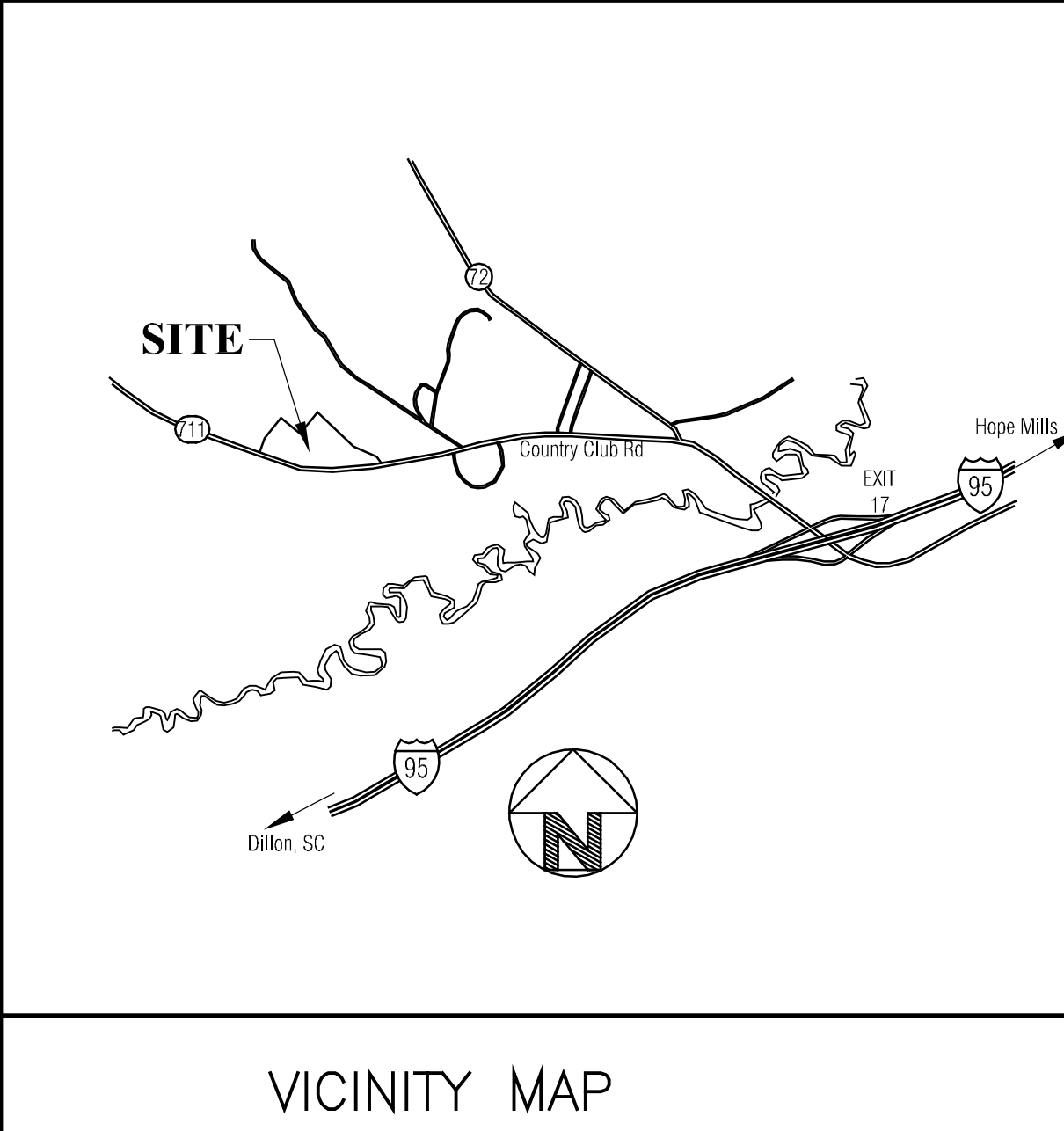
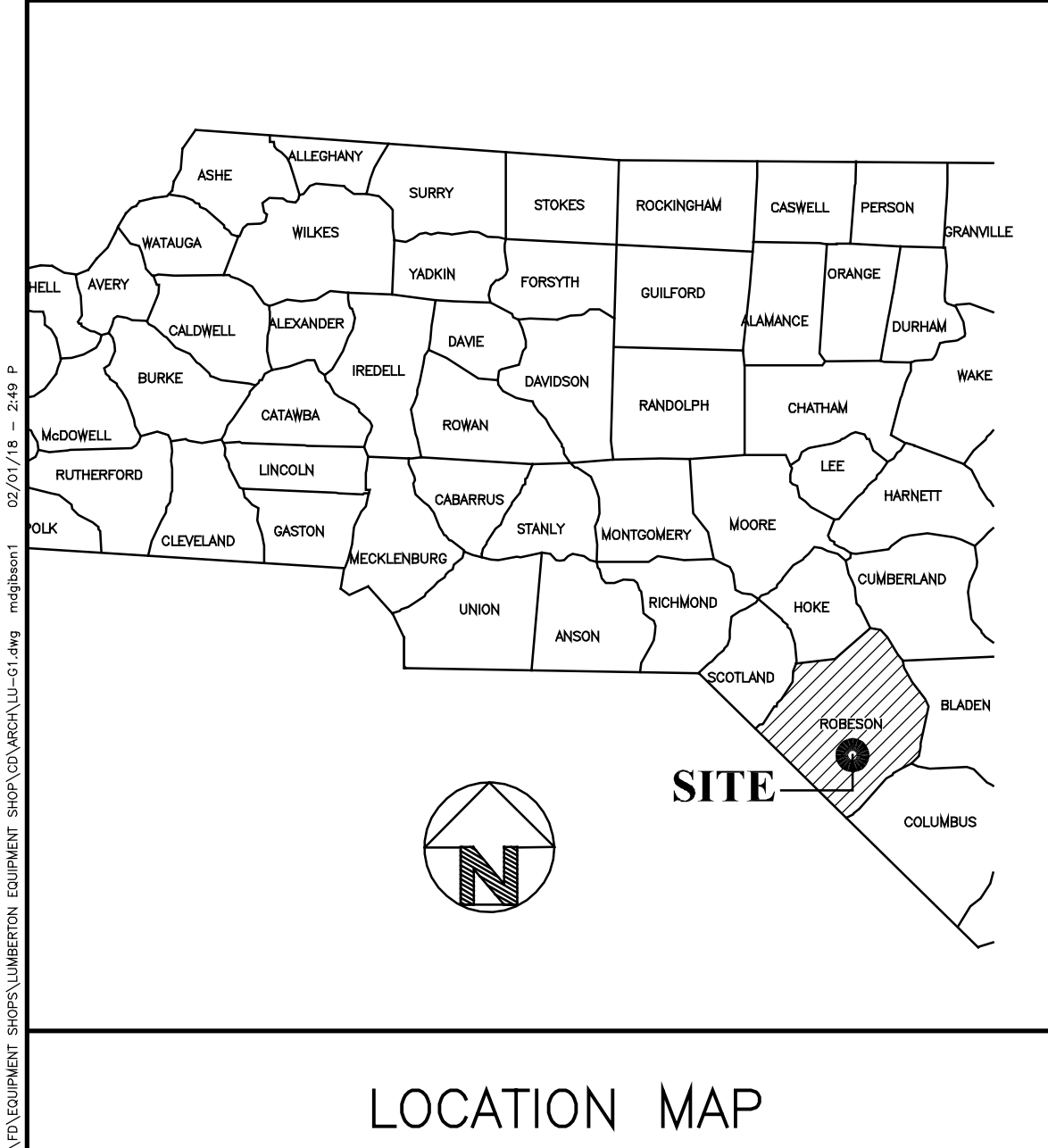
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ABBREVIATIONS AND SYMBOLS

<p>AL ANGLE AB ALUMINUM AFF ANCHOR BOLT ALT ABOVE FINISH FLOOR ALT ALTERNATE APRX APPROXIMATE ARCH ARCHITECTURAL AVG AVERAGE</p> <p>BB BACK TO BACK BSMT BASEMENT BRG BEARING BM BENCHMARK BLKG BLOCKING BD BOARD BLDG BUILDING</p> <p>CAB CABINET CANTL CANTILEVER CB CATCH BASIN C&G CURB AND GUTTER CIP CAST IRON PIPE CJ CONTROL JT, CEILING JST L CENTERLINE CL CLOSET</p> <p>CL AN CLEAR ANODIZED CLG CEILING CLKG CAULKING CMU CONCRETE MASONRY UNIT COL COLUMN CONC CONCRETE CONT CONTINUOUS CRS COURSES</p> <p>D DEEP DBL DOUBLE DET DETAIL DIA DIAMETER DIAG DIAGONAL DIM DIMENSION DN DOWN DS DOWNSPOUT</p>	<p>EA EACH EW EACH WAY ELEC ELECTRICAL EL ELEVATION ELEV ELEVATOR</p> <p>EXIST EXISTING EJ EXPANSION JOINT EXT EXTERIOR EWC ELECTRIC WATER COOLER</p> <p>FE FIRE EXTINGUISHER FEC FIRE EXTINGUISHER CABINET FD FLOOR DRAIN FF FACTORY FINISH FFE FINISH FLOOR ELEVATION FIN FL FINISH FLOOR</p> <p>FTG FOOTING FV FIELD VERIFY FO FRAME OPENING FOF FACE OF FINISH FOM FACE OF MASONRY FOS FACE OF STUD FRWR FIRE-RESISTANT & WATER-RESISTANT</p> <p>GALV GALVANIZED GA GAUGE GL GLASS, GLAZING GWB GYPSUM WALL BOARD GYP GYPSUM</p> <p>HB HOSE BIB HM HOLLOW METAL HD HORIZONTAL H HIGH, HEIGHT INSUL INSULATION INT INTERIOR INV INVERT</p>	<p>JC JANITOR'S CLOSET JST JOIST</p> <p>KF KERFERD FRAME KP KEYPAD LOCKSET KS KNEE SPACE</p> <p>LAV LAVATORY LB, # POUND LONG LONG LLL LONG LEG VERTICAL LLH LONG LEG HORIZONTAL MFR MARKER BOARD MFR MANUFACTURER MH MANHOLE MO MASONRY OPENING MATL MATERIAL MAX MAXIMUM MIN MINIMUM MTD MOUNTED MLD MOULDING</p> <p>NOT IN CONTRACT NTS NOT TO SCALE NO. NUMBER</p> <p>OC ON CENTER OPNG OPENING OPP H OPPOSITE HAND OSB ORIENTED STRAND BOARD</p> <p>PNL PANEL PL LAM PLASTIC LAMINATE PL PLATE PLMB PLUMBING PLWD PLYWOOD PREFAB PREFABRICATED PSF POUNDS PER SQ FOOT PSI POUNDS PER SQ INCH PGWB PAINTED GYPSUM WALL BOARD PCMU PAINTED CONCRETE MASONRY UNIT</p>	<p>R RISER, ROD RD ROOF DRAIN REF REFRIGERATOR REQD REQUIRED REV REVERSED, REVISION SAC SUSPENDED ACOUSTICAL TILE SCT SUSPENDED CEILING TILE SAN SANITARY SECT SECTION SFGL SAFETY GLASS SH SHELF, SHELVES SHT SHEET SHTG SHEATHING SIM SIMILAR SPEC SPECIFICATION SQ SQUARE SS STAINLESS STEEL, SANITARY SEWER STD STANDARD STL STEEL STO STORAGE</p> <p>T TREAD TB TACK BOARD T&G TONGUE AND GROOVE TLT TILT TOF TOP OF FOOTING TOJ TOP OF JOIST TOM TOP OF MASONRY TOS TOP OF STEEL TOW TOP OF WALL TRTD TREATED TYP TYPICAL UNFIN UNFINISHED UNLESS OTHERWISE NOTED</p> <p>VERT VERTICAL W WIDE, WIDTH W/ WITH WWF WOVEN WIRE FABRIC WD WOOD</p>
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<p> EARTH OTHER SOIL, POROUS FILL, BRICK, OTHER MATL CMU CONCRETE BATT INSULATION RIGID INSULATION WALL TYPE DETAIL NUMBER KEYED NOTE ROOM NUMBER DOOR MARK WINDOW MARK CENTER LINE, DATUM LINE HIDDEN LINE KEYPAD </p>	<p> FINISH WOOD ROUGH WOOD ROUGH WOOD PLYWOOD, OSB STEEL, METAL GYPSUM BOARD, OTHER MATERIAL GLASS, GLAZING FIBER CEMENT BOARD ACOUSTICAL TILE BREAK LINE PROPERTY LINE EXISTING CONTOUR NEW CONTOUR FENCE SILT FENCE SPOT ELEVATION OR DATUM SOIL BORING NO. 1 </p>
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BIDDING DOCUMENTS

DESIGNED BY: **FACILITIES DESIGN ARCHITECTS & ENGINEERS**
 FACILITIES MANAGEMENT DIVISION, NCDOT
 1 SOUTH WILKINSON STREET
 RALEIGH, NORTH CAROLINA 27601
 PHONE: 919/707-4540 FAX: 919/705-0399

CONSULTANT:

DRAWING TITLE / DESCRIPTION:

ABBREVIATIONS, SYMBOLS, LOCATION MAPS, & DRAWING INDEX

LUMBERTON EQUIPMENT SHOP
 NCDOT HIGHWAY DIVISION 6
 872 NC 711 HIGHWAY
 LUMBERTON, NORTH CAROLINA 28360

STATE CONSTRUCTION ID.# 16-12916-01A
 ASSET NUMBER: 78-06-00
 CO.# SITE.# BLDG.#
 REVISIONS NO. DATE
 DATE ISSUED: 12/15/2017
 DRAWN BY: CLS
 CHECKED BY: YDG
 SHEET NO.

G1

**2012 APPENDIX B
BUILDING CODE SUMMARY
FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)
(Reproduce the following data on the building plans sheet 1 or 2)**

Name of Project: **NC DOT Lumberton Equipment Shop**
 Address: **872 NC Highway 711, Lumberton, North Carolina** Zip Code **28360**
 Proposed Use: **Equipment Maintenance Shop**
 Owner/Authorized Agent: **NC DOT** Phone # (**919**) **707 - 4550** E-Mail **mdgibson1@ncdot.gov**
 Owned By: City/County Private State
 Code Enforcement Jurisdiction: City County State

LEAD DESIGN PROFESSIONAL: Mark D. Gibson

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural	NC DOT	Mark D. Gibson	5121	(919) 707-4550	mdgibson1@ncdot.gov
Civil	B&F Consulting	Amber Farrelly	27445	(704) 335-8102	amber.farrelly@bandfconsulting.com
Electrical	Devita & Assoc.	Mary W. Humiston	19586	(704) 335-0396	kimh@devitainc.com
Fire Alarm	Devita & Assoc.	Mary W. Humiston	19586	(704) 335-0396	kimh@devitainc.com
Plumbing	Devita & Assoc.	William L. Aldridge	27919	(704) 335-0396	baldrige@devitainc.com
Mechanical	Devita & Assoc.	William L. Aldridge	27919	(704) 335-0396	baldrige@devitainc.com
Sprinkler System	Devita & Assoc.	William L. Aldridge	27919	(704) 335-0396	baldrige@devitainc.com
Structural	NC DOT	Michael Mountcastle	17326	(919) 707-4547	mdmountcastle@ncdot.gov
Retaining Walls >5' High					
Other					

2012 EDITION OF NC CODE FOR: New Construction Addition Upfit
 Reconstruction Alteration Repair Renovation
EXISTING: Reconstruction Alteration Repair Renovation
CONSTRUCTED: (date) _____ **ORIGINAL USE(S)** (Ch. 3): _____
RENOVATED: (date) _____ **CURRENT USE(S)** (Ch. 3): _____
PROPOSED USE(S) (Ch. 3): _____

BASIC BUILDING DATA
 Construction Type: I-A II-A III-A IV V-A
 I-B II-B III-B V-B
 Sprinklers: No Partial Yes NFPA 13 NFPA 13R NFPA 13D
 Standpipes: No Yes Class I II III Wet Dry
 Fire District: No Yes (Primary) **Flood Hazard Area:** No Yes
Building Height: (feet) 27'-6"
Gross Building Area:

FLOOR	EXISTING (SQ FT)	RENOVATED (SQ FT)	SUB-TOTAL
6 th Floor			
5 th Floor			
4 th Floor			
3 rd Floor			
2 nd Floor			
Mezzanine	1,815		1,815
1 st Floor	15,140		15,140
Basement			
TOTAL	16,955		16,955

ALLOWABLE AREA

Occupancy:
 Assembly A-1 A-2 A-3 A-4 A-5
 Business
 Educational
 Factory F-1 Moderate F-2 Low
 Hazardous H-1 Detonate H-2 Deflagrate H-3 Combust H-4 Health H-5 HPM
 Institutional I-1 I-2 I-3 I-4
 I-3 Condition 1 2 3 4 5
 Mercantile
 Residential R-1 R-2 R-3 R-4
 Storage S-1 Moderate S-2 Low High-piled
 Parking Garage Open Enclosed Repair Garage
 Utility and Miscellaneous
Accessory Occupancies:
 Assembly A-1 A-2 A-3 A-4 A-5
 Business
 Educational
 Factory F-1 Moderate F-2 Low
 Hazardous H-1 Detonate H-2 Deflagrate H-3 Combust H-4 Health H-5 HPM
 Institutional I-1 I-2 I-3 I-4
 I-3 Condition 1 2 3 4 5
 Mercantile
 Residential R-1 R-2 R-3 R-4
 Storage S-1 Moderate S-2 Low High-piled
 Parking Garage Open Enclosed Repair Garage
 Utility and Miscellaneous

Incidental Uses (Table 508.2.5): N/A
 Furnace room where any piece of equipment is over 400,000 Btu per hour input
 Rooms with boilers where the largest piece of equipment is over 15 psi and 10 horsepower
 Refrigerant machine room
 Hydrogen cutoff rooms, not classified as Group H
 Incinerator rooms
 Paint shops, not classified as Group H, located in occupancies other than Group F
 Laboratories and vocational shops, not classified as Group H, located in a Group E or I-2 occupancy
 Laundry rooms over 100 square feet
 Group I-3 cells equipped with padded surfaces
 Group I-2 waste and linen collection rooms
 Waste and linen collection rooms over 100 square feet
 Stationary storage battery systems having a liquid electrolyte capacity of more than 50 gallons, or a lithium-ion capacity of 1,000 pounds used for facility standby power, emergency power or uninterrupted power supplies
 Rooms containing fire pumps
 Group I-2 storage rooms over 100 square feet
 Group I-2 commercial kitchens
 Group I-2 laundries equal to or less than 100 square feet
 Group I-2 rooms or spaces that contain fuel-fired heating equipment
Special Uses: 402 403 404 405 406 407 408 409 410 411 412
 413 414 415 416 417 418 419 420 421 422 423 424
 425 426 427
Special Provisions: 509.2 509.3 509.4 509.5 509.6 509.7 509.8 509.9
Mixed Occupancy: No Yes Separation: _____ Hrs. Exception: _____
 Incidental Use Separation (508.2.5)
 This separation is not exempt as a Non-Separated Use (see exceptions).

Non-Separated Use (508.3)
 The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.
 Separated Use (508.4) - See below for area calculations
 For each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} \leq 1$$

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 503 ² AREA	(C) AREA FOR FRONTAGE INCREASE ¹	(D) AREA FOR SPRINKLER INCREASE ²	(E) ALLOWABLE AREA OR UNLIMITED ³	(F) MAXIMUM BUILDING AREA ⁴
1	S-1	13,037 SF	17,500 SF	13,125 SF	35,000 SF	UL ²	UL ²
1	B	2,103 SF	23,000 SF	17,250 SF	46,000 SF	UL ²	UL ²
	MEZZANINE	S-1	1,815 SF	---	---	---	---

¹ Frontage area increases from Section 506.2 are computed thus:
 a. Perimeter which fronts a public way or open space having 20 feet minimum width = 463 (F)
 b. Total Building Perimeter = 463 (P)
 c. Ratio (F/P) = 1.0 (F/P)
 d. W = Minimum width of public way = >30' (W)
 e. Percent of frontage increase $I_f = 100 [F/P - 0.25] \times W/30 = 75$ (%)
² The sprinkler increase per Section 506.3 is as follows:
 a. Multi-story building $I_s = 200$ percent
 b. Single story building $I_s = 300$ percent
³ Unlimited area applicable under conditions of Section 507.
⁴ Maximum Building Area = total number of stories in the building x E (506.4).
⁵ The maximum area of open parking garages must comply with Table 406.3.5. The maximum area of air traffic control towers must comply with Table 412.1.2.

ALLOWABLE HEIGHT

Type of Construction	ALLOWABLE (TABLE 503)		INCREASE FOR SPRINKLERS		SHOWN ON PLANS		CODE REFERENCE
	Type	II-B	Type	II-B	Type	II-B	
Building Height in Feet	55'	Feet = II + 20' = 75'		27'-4"		T. 503	
Building Height in Stories	2	Stories + 1 = 3		1		T. 503	

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	REQ'D	RATING PROVIDED (W/REDUCTION)*	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATION	DESIGN # FOR RATED JOINTS
Structural Frame, including columns, girders, trusses	>30'	0		183/A7, 183/A8	N/A	N/A	N/A
Bearing Walls							
Exterior							
North	>30'	0					
East	>30'	0					
West							
South	>30'	0					
Interior	>30'	0					
Nonbearing Walls and Partitions							
Exterior walls	>30'	0					
North							
East							
West							
South							
Interior walls and partitions	>30'	0					
Floor Construction							
Including supporting beams and joists	>30'	0					
Roof Construction							
Including supporting beams and joists	>30'	0					
Shaft Enclosures - Exit	N/A						
Shaft Enclosures - Other	N/A						
Corridor Separation	N/A						
Occupancy Separation	N/A						
Party/Fire Wall Separation	N/A						
Smoke Barrier Separation	N/A						
Tenant Separation	N/A						
Incidental Use Separation	N/A						

* Indicate section number permitting reduction

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: No Yes
 Exit Signs: No Yes
 Fire Alarm: No Yes
 Smoke Detection Systems: No Yes Partial
 Panic Hardware: No Yes

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: G3
 Fire and/or smoke rated wall locations (Chapter 7)
 Assumed and real property line locations
 Exterior wall opening area with respect to distance to assumed property lines (705.8)
 Existing structures within 30' of the proposed building
 Occupancy types for each area as it relates to occupant load calculation (Table 1004.1.1)
 Occupant loads for each area
 Exit access travel distances (1016)
 Common path of travel distances (1014.3 & 1028.8)
 Dead end lengths (1018.4)

Clear exit widths for each exit door
 Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.1)
 Actual occupant load for each exit door
 A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation
 Location of doors with panic hardware (1008.1.10)
 Location of doors with delayed egress locks and the amount of delay (1008.1.9.7)
 Location of doors with electromagnetic egress locks (1008.1.9.8)
 Location of doors equipped with hold-open devices
 Location of emergency escape windows (1029)
 The square footage of each fire area (902)
 The square footage of each smoke compartment (407.4)
 Note any code exceptions or table notes that may have been utilized regarding the items above

ACCESSIBLE DWELLING UNITS (SECTION 1107) [NOT APPLICABLE]

TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED

ACCESSIBLE PARKING (SECTION 1106) [SEE DRAWING C2.2]

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES REQUIRED	PROVIDED	# OF ACCESSIBLE SPACES PROVIDED			TOTAL # ACCESSIBLE PROVIDED
			REGULAR WITH 5' ACCESS AISLE	132" ACCESS AISLE	8' ACCESS AISLE	
TOTAL						

DESIGN LOADS:

Importance Factors: Wind (Iw) 1.0
 Snow (Is) 1.0
 Seismic (Ie) 1.0
Live Loads: Roof 20 psf
 Mezzanine 125 psf
 Floor 100 psf
Ground Snow Load: 10 psf
Wind Load: Basic Wind Speed 105 mph (ASCE-7)
 Exposure Category B
 Wind Base Shears (for MWFRS) $V_x = 49.4k$ $V_y = 102.1k$

SEISMIC DESIGN CATEGORY: A B C D

Provide the following Seismic Design Parameters:
Occupancy Category (Table 1604.5) I II III IV
Spectral Response Acceleration S_s 40.7 %g S_1 12.6 %g
Site Classification (Table 1613.5.2) A B C D E F
 Data Source: Field Test Presumptive Historical Data
Basic structural system (check one)
 Bearing Wall Dual w/Special Moment Frame
 Building Frame Dual w/Intermediate R/C or Special Steel
 Moment Frame Inverted Pendulum
Seismic base shear: $V_x = 125.4k$ $V_y = 81.5k$
Analysis Procedure: Simplified Equivalent Lateral Force Dynamic
Architectural, Mechanical, Components anchored? Yes No

LATERAL DESIGN CONTROL: Earthquake Wind

SOIL BEARING CAPACITIES:
 Field Test (provide copy of test report) 2000 psf SEE SPECIFICATIONS
 Presumptive Bearing capacity _____ psf FOR TEST REPORT
 Pile size, type, and capacity _____

SPECIAL INSPECTIONS REQUIRED: Yes No

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

USE	WATERCLOSETS		URINALS	LAVATORIES		SHOWERS/TUBS	DRINKING FOUNTAINS	
	MALE	FEMALE		MALE	FEMALE		REGULAR	ACCESSIBLE
S-1	EXISTING	0	0	0	0	0	0	0
	NEW	1	1	2	1	1	1	1
	REQUIRED	1	1	0	1	0	1	1

SPECIAL APPROVALS [N/A]

Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, ICC, etc., describe below)

ENERGY SUMMARY

ENERGY REQUIREMENTS:
 The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.

Climate Zone: 3 4 5

Method of Compliance:
 Prescriptive (Energy Code)
 Performance (Energy Code)
 Prescriptive (ASHRAE 90.1)
 Performance (ASHRAE 90.1)

THERMAL ENVELOPE

Roof/ceiling Assembly (each assembly)
 Description of assembly: Metal roof on steel purlins w/ fiberglass insulation
 U-Value of total assembly: 0.0368
 R-Value of insulation: 25
 Skylights in each assembly: NONE
 U-Value of skylight: _____
 total square footage of skylights in each assembly: 0

Exterior Walls (each assembly) - Type I
 Description of assembly: 20" CMU cavity wall with 2" rigid insulation & 2" air space
 U-Value of total assembly: 0.076
 R-Value of insulation: 10.0
 Openings (windows or doors with glazing)
 U-Value of assembly: 0.455
 Solar heat gain coefficient: 0.23
 projection factor: 0.91
 Door R-Values: 2.5

Exterior Walls (each assembly) - Type II
 Description of assembly: 12" CMU with vermiculite filled cells
 U-Value of total assembly: 0.105
 R-Value of insulation: 9.5
 Openings (windows or doors with glazing)
 U-Value of assembly: 0.455
 Solar heat gain coefficient: 0.23
 projection factor: N/A
 Door R-Values: 2.5

Exterior Walls (each assembly) - Type III
 Description of assembly: Metal wall panels w/ fiberglass blanket insulation
 U-Value of total assembly: 0.0368
 R-Value of insulation: 25
 Openings (windows or doors with glazing)
 U-Value of assembly: _____
 Solar heat gain coefficient: N/A
 projection factor: N/A
 Door R-Values: N/A

Walls below grade (each assembly)

Description of assembly: N/A
 U-Value of total assembly: N/A
 R-Value of insulation: _____

Floors over unconditioned space (each assembly)

Description of assembly: N/A
 U-Value of total assembly: N/A
 R-Value of insulation: N/A

Floors slab on grade

Description of assembly: Poured-in-place concrete over vapor barrier on 2" rigid insulation
 U-Value of total assembly: 0.73
 R-Value of insulation: R-10
 Horizontal/vertical requirement: 16"
 slab heated: NO

MECHANICAL SUMMARY [SEE MECHANICAL DRAWINGS]

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone

winter dry bulb: _____
 summer dry bulb: _____

Interior design conditions

winter dry bulb: _____
 summer dry bulb: _____
 relative humidity: _____

Building heating load: _____

Building cooling load: _____

Mechanical Spacing Conditioning System

Unitary
 description of unit: _____
 heating efficiency: _____
 cooling efficiency: _____
 size category of unit: _____
 Boiler
 Size category. If oversized, state reason: _____
 Chiller

OCCUPANCY LOAD FACTORS:
 NON- SEPARATED MIXED USE
 GROUP S1 - 100 GROSS SF / OCCUPANT

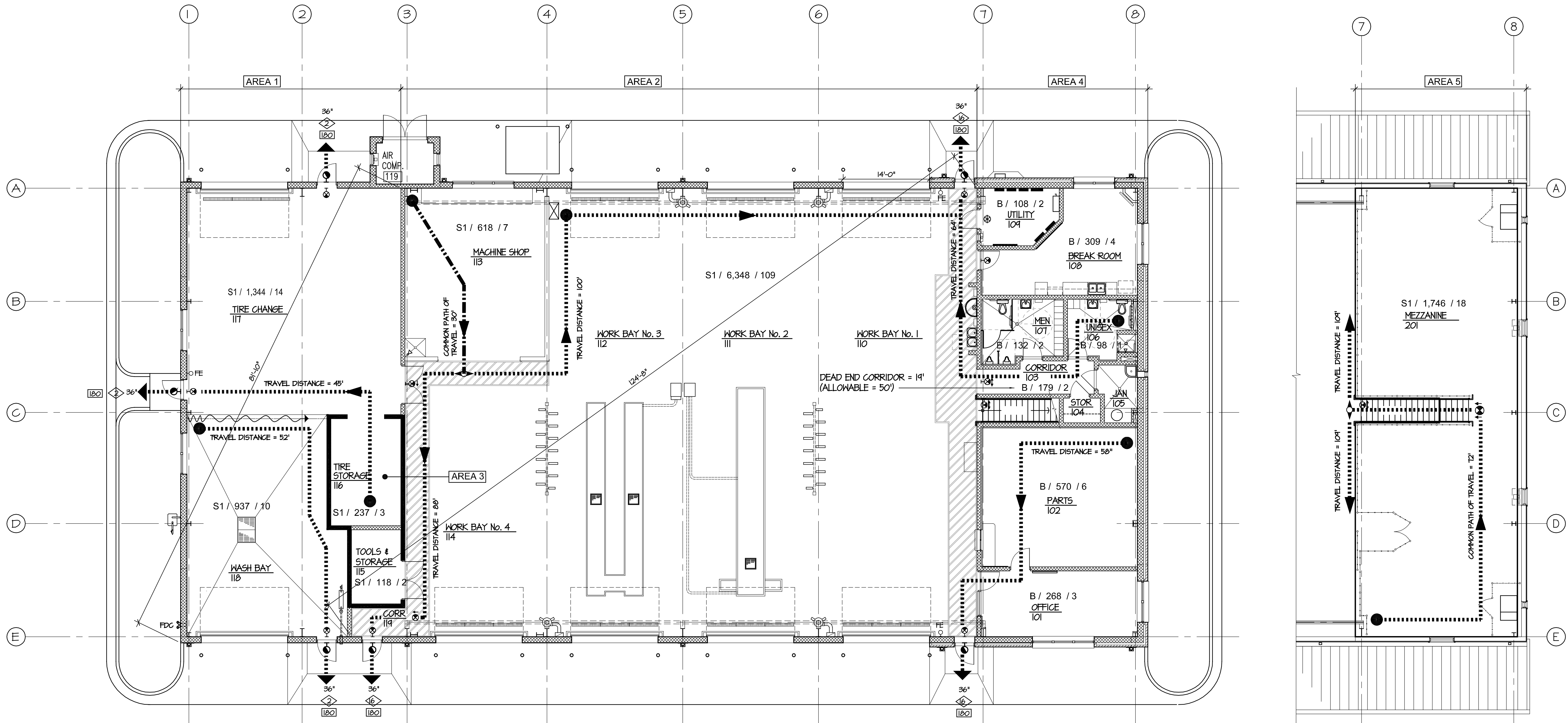
LEGEND- EXIT
 36" - CLEAR EXIT WIDTH
 ◊ - ACTUAL EXIT DOOR OCCUPANT LOAD
 120 - EXIT DOOR CAPACITY
 S1 / 225 / 11 - AREA OCCUPANT LOAD
 AREA SF
 TOTAL GROSS BUILDING AREA = 15,140 SF
 TOTAL OCCUPANT LOAD = 151

USE GROUP OR SPACE DESCRIPTION	OCCUPANCY TYPE	EXIT WIDTH						NUMBER AND ARRANGEMENT OF EXITS									
		(A) AREA SQ. FT.	(B) AREA PER OCCUPANT (T. 1004.1.1)	CALCULATED OCCUPANT LOAD	TOTAL OCCUP. LOAD PER AREA	(C) EGRESS WIDTH PER OCCUPANT (1005.1)		EXIT WIDTH (IN)		MINIMUM NUMBER OF EXITS		TRAVEL DISTANCE		ARRANGEMENT OF MEANS OF EGRESS (SECTION 1015.2)			
						STAIR	LEVEL	STAIR	LEVEL	REQUIRED	SHOWN ON PLANS	ALLOWABLE TRAVEL DISTANCE (TABLE 1016.1) *	ACTUAL TRAVEL DISTANCE SHOWN ON PLANS	REQ'D MIN. DISTANCE BETWEEN EXIT DOORS (1015.2.1.2) *	ACTUAL DISTANCE SHOWN ON PLANS *		
AREA 1	REPAIR GARAGE S-1	2311	100	24	28	3"	2"	N/A	5.6"	N/A	108"	2	3	250'	52'	27'-4"	75'-0"
AREA 2	REPAIR GARAGE S-1	6746	100	68	109	3"	2"	N/A	21.8"	N/A	108"	2	3	250'	141'-0"	41'-8"	121'-0"
AREA 3	STORAGE S-1	248	100	5	5	3"	2"	N/A	1.0"	N/A	144"	2	2	250'	48'	NA	NA
AREA 4	OFFICE B	1740	100	18	18	3"	2"	N/A	3.6"	N/A	156"	4	4	300'	65'	NA	NA
AREA 5	MEZZANINE S-1	1740	100	18	18	3"	2"	5.31"	3.6"	48"	NA	1	1	250'	113'	NA	NA

*BUILDING IS FULLY SPRINKLERED PER NCCG 903.3.1.1.

LEGEND- LIFE SAFETY

- ▶ TRAVEL DIRECTION TO EXIT
- ▲ EXIT DISCHARGE
- EGRESS PATH
- COMMON PATH OF TRAVEL (100'-MAX)
- END OF COMMON PATH OF TRAVEL
- ⊗ EXIT SIGN
- ☒ F.E.G. FIRE EXTINGUISHER CABINET
- REMOTE POINT
- ⊕ PANIC HARDWARE
- FE WALL MOUNTED FIRE EXTINGUISHER



2 GROUND FLOOR LIFE SAFETY PLAN
 SCALE: 1/8" = 1'-0"

1 MEZZANINE LIFE SAFETY PLAN
 SCALE: 1/8" = 1'-0"

BIDDING DOCUMENTS

DESIGNED BY: **FACILITIES DESIGN ARCHITECTS & ENGINEERS**
 ARCHITECTS & ENGINEERS
 FACILITIES MANAGEMENT DIVISION, NCDOT
 1 SOUTH WILKINSON STREET
 RALEIGH, NORTH CAROLINA 27601
 PHONE 919/707-4540 FAX 919/705-0399

PROJECT TITLE: **LUMBERTON EQUIPMENT SHOP**
 LUMBERTON EQUIPMENT SHOP
 NCDOT HIGHWAY DIVISION 6
 872 NC 71 HIGHWAY
 LUMBERTON, NORTH CAROLINA 28890

STATE CONSTRUCTION ID.# 16-12916-01A
 ASSET NUMBER: 78-06-00
 CO.# SITE.# BLDG.#

REVISIONS NO. DATE

DATE ISSUED: 12/15/2017
 DRAWN BY:
 CHECKED BY:
 SHEET NO.

G3

APPROVAL NOTES – THE PROPOSED PLAN SHALL RECEIVE THE FOLLOWING APPROVALS PRIOR TO CONSTRUCTION:

1. SITE PLAN APPROVAL THROUGH STATE CONSTRUCTION OFFICE (SCO)
2. ONSITE PUMP STATION AND SITE SERVICE FORCE MAIN TO EXISTING COUNTY SEWER IN NC-711 IS BEING COMPLETED BY KEN BRIGHT, P.E. 017585 BY PERMIT FROM NCDENR
3. GRADING/EROSION CONTROL PERMIT FROM NCDENR AS DELEGATED TO NCDOT'S SOIL AND WATER ENGINEERING SECTION.
4. NUTRIENT REDUCTION IS NOT REQUIRED FOR THIS SITE PER NCDOT'S EXEMPTION
5. STORMWATER PERMIT UPDATE MODIFICATIONS PERMITTED THROUGH DWQ AS DELEGATED TO NCDOT'S HYDRAULICS-STORMWATER PROGRAM.
6. 401/404 PERMITS THROUGH THE CORPS OF ENGINEERS ARE NOT REQUIRED DUE TO NO WETLAND DISTURBANCE

DEMOLITION NOTES – EXISTING TIRE SHOP AND FUEL TANK AREA

1. DEMOLITION OF EXISTING TIRE SHOP, REMOVAL OF IMMEDIATELY ADJACENT EXISTING 2–15,000 GAL UNDERGROUND TANKS AND BACKFILL SOIL/DEBRIS IN THE AREA WILL BE REMOVED BY THE OVERALL PROJECT CONTRACTOR AS PART OF THE BASE BID. SEE CONTRACT SPECIFICATIONS FOR DETAILS AS TO ANY REQUIRED SOIL MITIGATION/ABATEMENT/REMOVAL AND TIMING REQUIREMENTS.
- ESTIMATED SIZE OF UNDERGROUND TANKS TO BE REMOVED:
26'LONG X 10'RAD = 76 CY EACH (2 TANKS)
- ESTIMATED STRUCTURAL FILL QUANTITIES ARE AS FOLLOWS:
TO BE REMOVED IN TANK AREA: 1,110CY–152CY=958CY
TO REPLACE TANK/SOIL AREA: 50'X40'X15'=1,110 CY
2. ANY CONTAMINATED MATERIAL, TANKS AND LINES (PETROLEUM) DISCOVERED ONSITE IS TO BE REMOVED ACCORDING TO ALL FEDERAL, STATE (DEQ) AND LOCAL REGULATIONS AND REQUIREMENTS.
3. ONSITE SOIL TESTING DURING CONSTRUCTION BY GEOTECHNICAL CONSULTANT PROVIDED BY OWNER.
4. ANY REMAINING FOUNDATION PLANTINGS ON OLD TIRE SHOP BUILDING SHALL BE REMOVED WHEN THE BUILDING IS DEMOLISHED.
5. FUEL ISLAND CANOPY RECONSTRUCTION AND ADJACENT ABOVE GROUND TANK INSTALLATION WITH ASSOCIATED JUNCTION BOXES AND ELECTRICAL SERVICE LINES WILL BE COMPLETED BY SEPARATE CONTRACT. REFERENCE PLANS BY BURKE DESIGN GROUP.
6. ACCESS TO THE DEMOLITION SITES SHALL BE FROM THE EXISTING NC-711 TO THE SOUTH.
7. ANY DAMAGE TO EXISTING STRUCTURES THAT ARE TO REMAIN (ROADWAY, ETC) WILL BE CORRECTED BY THE SITE CONTRACTOR.
8. ALL CONTRACTORS ON SITE SHALL CONFORM TO NCDOT REGULATIONS AND RESTRICTIONS WHILE ON SITE.
9. CONTRACTOR TO VERIFY UNDERGROUND UTILITIES BEFORE DIGGING AND WILL BE RESPONSIBLE FOR CONTINUOUS SERVICE TO OTHER BUILDINGS ON SITE DURING CONSTRUCTION.
10. SALVAGED ITEMS WILL BE RETAINED AND REUSED AS PER THE SPECIFICATIONS AND ELECTRICAL/ARCHITECTURAL PLANS.
11. REFERENCE EXISTING CONDITIONS AND DEMOLITION SHEET FOR UNDERGROUND UNUTILIZED UTILITY DEMOLITION.
12. REFERENCE SEQUENCE OF EVENTS, SEE C6.2, DETAIL 9.

DEMOLITION NOTES – NEW BUILDING CONSTRUCTION

1. ANY TREES IN EXCESS OF 12" IN DIAMETER THAT ARE TO BE REMOVED BY CONTRACTOR FOR CONSTRUCTION WILL BE CUT INTO 20' LENGTHS AND STORED AT DESIGNATED AREAS ON SITE.
2. ACCESS TO THE CONSTRUCTION SITE AND STAGING/TRAILER AREAS IS LIMITED TO AUTHORIZED PERSONNEL ONLY. VISITORS AND STAFF SHOULD BE ROUTED AROUND AREAS.
3. PROTECTIVE FENCING WILL BE MOVEABLE FOR FLEXIBILITY IN WORK AREAS AND IN ORDER NOT TO DAMAGE EXISTING ROADWAY, CURB AND GUTTER AND SIDEWALK. ANY DAMAGE TO EXISTING STRUCTURES PLANNED TO REMAIN WILL BE CORRECTED BY THE CONTRACTOR.
4. ALL CONTRACTORS ON SITE SHALL CONFORM TO NCDOT REGULATIONS AND RESTRICTIONS WHILE ON SITE.
5. ANY REQUIRED GENERATOR LINES TO EXISTING BUILDING ARE TO BE PROTECTED OR RELOCATED OUTSIDE NEW CONSTRUCTION AREA IN ORDER TO KEEP ALL EXISTING SYSTEMS OPERATIONAL AND WITH BACKUP POWER DURING CONSTRUCTION.
6. CONTRACTOR TO VERIFY UNDERGROUND UTILITIES BEFORE DIGGING AND WILL BE RESPONSIBLE FOR CONTINUOUS SERVICE TO OTHER BUILDINGS ON SITE DURING CONSTRUCTION.
7. CONTRACTOR TO VERIFY LOCATION OF EXISTING WATER AND SEWER SERVICES TO/FROM EXISTING BUILDINGS AND IS RESPONSIBLE FOR CONTINUOUS SERVICE TO EXISTING BUILDING DURING CONSTRUCTION.
8. DEMOLITION/RELOCATION OF EXISTING UNDERGROUND FUEL TANKS AND APPURTENANCES SHALL BE REMOVED BY OTHERS, AND IS NOT IN CONTRACT (N.I.C.) FOR THIS PROJECT.
9. AFTER CONSTRUCTION OF NEW EQUIPMENT SHOP, CERTIFICATE OF OCCUPANCY AND INSTALLATION OF EXISTING EQUIPMENT HAS OCCURRED, THE SIDEWALK, DECKING, PAVEMENT AND UTILITIES FOR THE EXISTING SHOP IS TO BE SEQUENTIALLY REMOVED BY PROJECT CONTRACTOR PRIOR TO THEIR PARKING LOT INSTALLATION. SEE CONTRACT SPECIFICATIONS FOR DETAILS AS TO ABATEMENT AND TIMING REQUIREMENTS.
10. ALL TEMPORARY SERVICE (EXCLUDING WATER AND SEWER) TO EXISTING BUILDING SHALL BE OVERHEAD. ALL PERMANENT SERVICES TO NEW BUILDING SHALL BE UNDERGROUND.
11. SALVAGED ITEMS WILL BE RETAINED AND REUSED AS PER THE SPECIFICATIONS AND ELECTRICAL/ARCHITECTURAL PLANS.
12. DEMOLITION CONTRACTOR WILL REMOVE ALL UTILITIES ONSITE THAT WILL NOT BE UTILIZED WHEN CONSTRUCTION IS COMPLETE TO 10' OUTSIDE THE BUILDING OR AS NOTED. THIS WILL INCLUDE REMOVING WIRING AND CONDUIT WHEN UNDER GRASS AND REMOVING THE WIRING FROM THE CONDUITS WHEN UNDER PAVEMENT. APPROXIMATE LENGTH OF TOTAL LINE REMOVAL AS SHOWN ON SURVEY DRAWINGS (TO BE REMOVED AT TIMES PER CONSTRUCTION SEQUENCE – REFERENCE SITE ELECTRICAL PLANS FOR EXACT TERMINATION POINTS):
TELEPHONE/DATA: 365 LF
ELECTRIC: 43 LF U.G., 726 LF OHD
FUEL GAS LINES: 300 LF
SANITARY SEWER SERVICE: 127 LF
WATERLINE SERVICE : 269 LF
14. REFERENCE SEQUENCE OF EVENTS, SEE C6.2, DETAIL 9.

STAGING/TRAILER AREA NOTES

1. STAGING AREA IS TO STAY WITHIN PROTECTIVE FENCING SURROUNDING MATERIALS.
2. ANY ADDITIONAL PROTECTIVE FENCING WILL BE MOVEABLE FOR FLEXIBILITY IN WORK AREA AND IN ORDER NOT TO DAMAGE EXISTING ROADWAY, CURB AND GUTTER AND SIDEWALK. ANY DAMAGE TO EXISTING STRUCTURES WILL BE CORRECTED BY THE CONTRACTOR.
3. ANY GRASS WITHIN DESIGNATED STAGING AREA SHALL BE REPLANTED AFTER REMOVAL OF MATERIALS AND FENCING AT COMPLETION OF PROJECT.
4. CONSTRUCTION TRAFFIC WILL ENTER/EXIT SITE VIA WESTERN PROJECT SITE ENTRANCE OFF NC-711. COORDINATION SHALL BE MADE SUCH THAT CONSTRUCTION TRAFFIC IS NOT USING THAT LANE DURING PEAK MAINTENANCE STAFF USAGE TIMES.
5. ALL ROADWAYS WILL BE KEPT CLEAR AND ACCESSIBLE AT ALL TIMES.
6. ALL AREA SURROUNDING FENCED PROPERTY SHALL REMAIN ACTIVE AND PASSABLE DURING CONSTRUCTION FOR ANY PEDESTRIAN TRAFFIC.
7. PROPOSED TEMPORARY CONTRACTOR TRAILER AND PARKING LOCATIONS WILL ALLOW FOR FIRE DEPARTMENT ACCESS THROUGHOUT THE CONSTRUCTION TIMEFRAME.
8. ACCESS TO THE CONSTRUCTION SITE AND STAGING/TRAILER AREAS IS LIMITED TO AUTHORIZED PERSONNEL ONLY. VISITORS AND STAFF SHOULD BE ROUTED AROUND THESE AREAS.
9. ALL CONTRACTORS ON SITE SHALL CONFORM TO NCDOT REGULATIONS AND RESTRICTIONS WHILE ON SITE.
10. REFERENCE SEQUENCE OF EVENTS, SEE C6.2, DETAIL 9.

LAYOUT NOTES

1. STAKING WORK TO BEGIN AT NCGS MONUMENT "ROB" LOCATED SOUTH OF THE EXISTING ADMINISTRATIVE BUILDING, JUST SOUTH OF THE PROPOSED EQUIPMENT SHOP. CONTRACTOR WILL LAY OUT THE BUILDING BASED UPON THE ARCHITECTURAL LOCATIONS STARTING AT THE SOUTHWEST CORNER OF THE NEW BUILDING.
2. ESTIMATED EXCESS DIRT GENEREATED FOR THE SITE CONSTRUCTION IS 1000 CY. CONTRACTOR TO VERIFY FOR BID PRICING PURPOSES.
3. CONTRACTOR TO VERIFY LOCATION OF ALL UNDERGROUND UTILITIES AND SHALL ENSURE THEIR CONTINUAL SERVICE TO REMAINING STRUCTURES AND SECURITY FOOTAGE THROUGHOUT CONSTRUCTION.

SITE PLAN NOTES

1. THE PROPOSED BUILDING SITS ACROSS TWO SEPARATE LAND PARCELS THAT ARE NOT TO BE RECOMBINED PER DIRECTION FROM STATE PROPERTY OFFICE.
2. ACCESS TO THE CONSTRUCTION SITE AND STAGING/TRAILER AREAS IS LIMITED TO AUTHORIZED PERSONNEL ONLY. VISITORS AND STAFF SHOULD BE ROUTED AROUND THESE AREAS.
3. PROTECTIVE FENCING WILL BE MOVEABLE FOR FLEXIBILITY IN WORK AREAS AND IN ORDER NOT TO DAMAGE EXISTING ROADWAY, CURB AND GUTTER AND SIDEWALK. ANY DAMAGE TO EXISTING STRUCTURES PLANNED TO REMAIN WILL BE CORRECTED BY THE CONTRACTOR.
4. CONTRACTOR TO ENSURE CONTINUOUS SERVICE AND ACCESS OF SITE TO NCDOT LUMBERTON YARD STAFF DURING CONSTRUCTION.
5. CONSTRUCTION TRAFFIC WILL ENTER/EXIT SITE VIA WESTERN PROJECT SITE ENTRANCE OFF NC-711. COORDINATION SHALL BE MADE SUCH THAT CONSTRUCTION TRAFFIC IS NOT IMPEDING HIGH TRAFFIC ACCESS TO THE SITE BY STAFF.
6. ALL CONTRACTORS ON SITE SHALL CONFORM TO NCDOT REGULATIONS AND RESTRICTIONS WHILE ON SITE.
7. CONSTRUCTION SHOULD BE COORDINATED WITH SITE OPERATIONS MANAGER REGARDING DEMOLITION TIMING.
8. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL NCDOT/NCDENR/DWQ APPLICABLE STANDARDS AND SPECIFICATIONS.
9. REFERENCE SEQUENCE OF EVENTS, SEE C6.2, DETAIL 9.

EROSION CONTROL NOTES

1. ALL EROSION CONTROL IS TO CONFORM TO ALL NCDOT AND NCDENR STANDARDS AND SPECIFICATIONS.
2. ALL NEW UNDERGROUND UTILITY LINE CONSTRUCTION SHALL MAINTAIN THE DISTURBED AREA FOR CONSTRUCTION TO WITHIN 10' EITHER SIDE OF THE NEWLY INSTALLED UTILITY LINE.
3. PLUMBING CONTRACTOR TO EXTEND ALL UTILITY CONNECTIONS FROM THE BUILDING TO 5' OUTSIDE THE BUILDING AND PROVIDE A CLEANOUT IF NECESSARY AT THAT LOCATION.
4. ALL STORM/SANITARY/WATERLINES SHALL MAINTAIN MORE THAN 3' COVER FOR FREEZE PROTECTION.
5. ALL UTILITY LINES SHALL MAINTAIN MINIMUM CLEARANCE AS REQUIRED BY APPROVING GOVERNMENT ENTITY.
6. CONSTRUCTION TRAFFIC WILL ENTER/EXIT SITE VIA THE MAIN SITE ENTRANCE OFF NC-711. COORDINATION SHALL BE MADE SUCH THAT CONSTRUCTION TRAFFIC IS NOT IMPEDING HIGH TRAFFIC ACCESS TO THE SITE BY STAFF.
7. SUBJECT PROPERTY IS LOCATED WITHIN A FLOOD HAZARD AREA ACCORDING TO EFFECTIVE FLOOD INSURANCE RATE MAPS 37109371000J, EFFECTIVE DATE JANUARY 19, 2005 AND 3710937100K, EFFECTIVE DATE AUGUST 29, 2014.
8. EROSION AND SEDIMENT CONTROL/STORMWATER CERTIFICATION REQUIREMENTS ARE ON SHEET C6.3, DETAIL 7.
10. REFERENCE SEQUENCE OF EVENTS, SEE C6.2, DETAIL 9.

UTILITY CONTACT INFORMATION

POWER: CITY OF LUMBERTON ELECTRIC UTILITIES DEPARTMENT
CONTACT: LAMAR BRAYBOY
PHONE: 910-671-3865

COMMUNICATIONS: STATE OF NC, OFFICE OF IT SERVICES
CONTACT: CHUCK CLARK
PHONE 919-754-6830

SEWER: CITY OF LUMBERTON PUBLIC WORKS DEPARTMENT
CONTACT: ROBERT ARMSTRONG, JR.
PHONE: 910-671-3851

WATER: CITY OF LUMBERTON PUBLIC WORKS DEPARTMENT
CONTACT: ROBERT ARMSTRONG, JR.
PHONE: 910-671-3851

TELEPHONE: AT&T
CONTACT: CUSTOMER SERVICE
PHONE: 910-671-6191

NOTE: THE RE-ROUTED ELECTRICAL, TELEPHONE, CABLE, CORS AND CCTV LINES ARE SHOWN ON THE ELECTRICAL SITE PLAN FOR GENERAL ROUTING LOCATION PURPOSES ONLY. COORDINATION WITH UTILITIES IS REQUIRED.

UTILITY PLAN NOTES

1. ALL UTILITY PLANS ARE TO CONFORM TO ALL NCDOT AND NCDENR STANDARDS AND SPECIFICATIONS.
2. RELOCATION OF ALL SITE UTILITY SERVICES (INCLUDING POWER, TELECOM, VEEDER-ROOT, FUEL, PHONE) ARE TO BE COORDINATED WITH THE PME AND FUEL ISLAND DRAWINGS. ANY DISCREPANCIES BETWEEN THE SITE AND PME PLANS ARE TO FOLLOW THE PME DRAWINGS.
3. THE EXISTING LINES TO REMAIN FOR EXISTING FACILITIES SHALL BE PROTECTED AND REMAIN FUNCTIONAL THROUGHOUT CONSTRUCTION.
4. ANY OVERHEAD LIGHTS, HANDHOLDS, ELECTRICAL AND TELECOMMUNICATION LINES AND CONDUITS ARE SHOWN ON THESE PLANS FOR REFERENCE PURPOSES ONLY IN RELATION TO THE SANITARY, WATER AND STORM LINES. REFERENCE ELECTRICAL DRAWINGS (SHEET E0.3 FOR LIGHTING) FOR MORE INFORMATION AND THE LOCATION OF UNDERGROUND ELECTRICAL LINES.
5. MINIMUM UTILITY VERTICAL CLEARANCES:
 - A. MAINTAIN MINIMUM 24" BETWEEN SEWER LINES AND NON-POTABLE WATERLINES WHERE THEY CROSS EACH OTHER.
 - B. MINIMUM 18" BETWEEN POTABLE WATERLINES AND SEWERMAINS WHERE THE SEWER CROSSES UNDER THE WATERLINE.
6. ALWAYS MAINTAIN A MINIMUM 10' HORIZONTAL CLEARANCE BETWEEN POTABLE AND NON-POTABLE WATERLINES WHEN THEY ARE ADJACENT TO EACH OTHER.
7. ALL WATER, SEWER AND NON-POTABLE WATERLINES ARE TO HAVE A MINIMUM OF 3' SOIL COVERAGE TO PREVENT FREEZING.
8. SEWERLINE SERVICE GRAVITY FLOW TO EXISTING MANHOLE IS TO BE INSTALLED WITH CLEANOUTS LOCATED AT 100' MIN. ALONG THE LINE.
9. ALL WATER, SANITARY AND STORMWATER UTILITIES FROM BUILDING SHALL BE STUBBED TO 5' OUTSIDE THE BUILDING OR AS SHOWN ON THE PLUMBING DRAWINGS BY THE BUILDING CONTRACTOR. BUILDING CONTRACTOR TO INSTALL SEWER CLEAN OUT AT THE LOCATION. SITE UTILITY CONTRACTOR WILL PICK UP THE CONSTRUCTION WORK FROM THAT POINT ONWARD WITH THE EXCEPTION OF THE OIL/WATER SEPARATOR WHICH IS TO BE INSTALLED BY PLUMBING CONTRACTOR. SCHEDULING CONSIDERATION SHOULD BE MADE TO ENSURE THAT ADDITIONAL CLEANOUTS ARE NOT REQUIRED.
10. STORMWATER PIPE DESIGN CALCULATIONS AND INVERTS ARE SHOWN ON SHEET C3.1.
11. SEWER UTILITY LINES ARE TO CONFORM TO ALL NCDENR/CITY OF LUMBERTON STANDARDS AND SPECIFICATIONS.
12. ALL NEW UTILITY LINES ARE TO KEEP THE DISTURBED AREA FOR CONSTRUCTION TO WITHIN 10' ON EACH SIDE OF THE NEW UTILITY LINE.
13. ALL UNDERGROUND LINES OUTSIDE BUILDING FOOTPRINT (EXCEPT LAWN IRRIGATION LINES) SHALL BE REQUIRED TO HAVE A WARNING TAPE INSTALLED IN THE BACKFILL BETWEEN 6 INCHES AND 24 INCHES BELOW FINISHED GRADE, DIRECTLY OVER PIPING. PLASTIC SEWER WIRE WILL REQUIRE AN INSULATED COPPER TRACER WIRE. SEE SHEET C6.3, DETAIL 3 FOR ADDITIONAL NOTES.
14. POWER SCHEME IS TO FOLLOW ELECTRICAL DRAWINGS REGARDING REMOVAL OF EXISTING SITE LIGHTING/ BUILDING FEED LINES AND FUEL ISLAND POWER AND THEN THEIR RECONNECTION.
15. ANY PROPOSED OR EXISTING UNDERGROUND EXTERIOR TANKS SHALL BE TRAFFIC RATED OR PROTECTED FROM TRAFFIC ACCESSIBILITY.
16. SELECT RE-ROUTED ELECTRICAL, TELEPHONE, CABLE, CORS AND CCTV LINES ARE SHOWN HERE FOR GENERAL ROUTING LOCATION PURPOSES ONLY. COORDINATION WITH UTILITIES IS REQUIRED, SEE SPEC SHEETS FOR CONDUIT.
17. GAS SERVICE REQUIRED TO NEW BUILDING AT APPROXIMATE LOCATION SHOWN AND COORDINATED WITH UTILITIES AND GAS COMPANY (SEE P2.0 AND M0.3).
18. ALL BELOW GROUND SEWER UTILITIES LOCATED 5' OUTSIDE THE BUILDING FOOTPRINT, AND ALL STORMWATER AND WATER SERVICE BELOW GROUND OUTSIDE THE BUILDING FOOTPRINT SHALL BE INSTALLED BY THE SITE UTILITY CONTRACTOR PER THIS PLAN (EXCEPTING OIL/WATER SEPARATOR AND ALL UTILITIES FOR PUMP HOUSE TO/FROM THE MAIN BUILDING) AND COORDINATED WITH THE ARCHITECTURAL AND PME PLANS (SEE P1.1).
19. ALL CONDUIT FOR UNDERGROUND UTILITIES IS TO BE INSTALLED BY CONTRACTOR UNLESS OTHERWISE INDICATED AS PER THE SITE ELECTRICAL DRAWINGS. WIRES FOR THE SECURITY LINES ARE TO BE INSTALLED BY OTHERS OR AS PER THE SITE ELECTRICAL DRAWINGS.
20. ALL TEMPORARY SERVICE (EXCLUDING WATER AND SEWER) TO EXISTING BUILDINGS SHALL BE OVERHEAD. ALL PERMANENT SERVICES TO NEW BUILDING SHALL BE UNDERGROUND.
21. REFERENCE SEQUENCE OF EVENTS, SEE C6.2, DETAIL 9.
22. OUTSIDE MECHANICAL UNITS TO BE COORDINATED WITH OTHER DESIGN SHEETS. THIS INCLUDES, BUT IS NOT LIMITED TO THE COMPRESSORS, OIL TANKS, WATER/OIL SEPARATOR, GENERATOR, HEAT PUMPS, TRANSFORMER AND TRANSFER SWITCH. REFERENCE ARCHITECTURAL EQUIPMENT PLAN.
23. WATERLINE INSTALLATION WILL BE COORDINATED SUCH AS TO BE INSTALLED TO PROVIDE CONTINUAL SERVICE TO SITE.
24. CONTRACTOR TO COORDINATE ALL SERVICES WITH METER LOCATIONS SHOWN ON PME AND ARCHITECTURAL PLANS.
25. CONTRACTOR TO CONFIRM LOCATION OF EXISTING UTILITY LOCATIONS/INVERTS PRIOR TO INSTALLATION OF CONNECTING SYSTEMS.

LANDSCAPING NOTES

1. ANY PLANTINGS TO BE INSTALLED WITH THIS PROJECT WILL BE DESIGNED BY ROADSIDE ENVIRONMENTAL DIVISION AND ARE NOT SHOWN ON THIS PLAN (N.I.C.).
2. ALL BARE SPOTS WITHIN CONSTRUCTION AREAS THAT ARE 5' OUTSIDE THE BUILDING WALL, AND ALL AREAS WITHIN LAYDOWN/WORK/PARKING AREAS ARE TO BE PREPARED AND SEEDDED AS PER THE SEEDING SCHEDULE ON SHEET C6.2, DETAILS 7 & 10 TO MATCH EXISTING SITE CONDITIONS.
3. CONTRACTOR SHALL MOW AREA SURROUNDING BUILDING TO A HEIGHT OF 6" OR LESS ONCE VEGETATION IS ESTABLISHED AND CONTINUALLY BEFORE FINAL ACCEPTANCE OF THE OWNER.
4. AREAS ADJACENT TO THE BUILDING THAT ARE BETWEEN SIDEWALKS AND THE BUILDING WALL OR WITHIN FUTURE LANDSCAPING AREAS (AS OUTLINED AND HATCHED) ARE TO BE COVERED WITH PINE BARK MULCH.
5. PLAN SHEET C5.1 REFLECTS PROPOSED BASIC GROUND COVER LOCATIONS ONLY. FOR INFORMATION RELATED TO GRADING, UTILITIES, ETC. REFER TO THE SITE AND GRADING PLAN.
6. ANY PROPOSED FUTURE INSTALLATION OF PLANTS AND PLANTING PROCEDURES SHALL MEET OR EXCEED THE A.A.N. STANDARDS AS SET FORTH IN "AMERICAN STANDARD FOR NURSERY STOCK" 1986 OR LATEST EDITION.
7. TOPSOIL SHALL BE SPREAD OVER THE ENTIRE LANDSCAPE AREA TO A DEPTH OF AT LEAST 4" IN LAWN AREAS AND 6" IN ANY FUTURE IDENTIFIED SHRUB AND GROUNDCOVER BEDS.
8. FOR PLANTING, REFER TO SHEET C5.1 FOR LOCATIONS AND SHEET C6.3 FOR PLANTING DETAILS.

DETAIL NOTES

1. LAND DISTURBING AND EROSION CONTROL DETAILS SHALL ADHERE TO ALL APPLICABLE STATE CONSTRUCTION STANDARDS.
2. WATER SERVICES ON SITE ARE MANAGED BY NCDOT. WATER METERS AND MAINS ARE MANAGED BY THE CITY OF LUMBERTON, NORTH CAROLINA AND ARE TO ADHERE TO THEIR STANDARDS AND APPROVALS.
3. SEWER SERVICE IS MANAGED BY NCDOT ONSITE AND IS TO ADHERE TO THE STANDARDS AND APPROVALS AS SET BY ROBESON COUNTY SEWER DEPARTMENT.
4. ALL ROADWAY AND SITE WORK IS OWNED AND MAINTAINED BY NCDOT. ALL CONSTRUCTION FOR PUBLIC ACCESSES ARE TO ADHERE TO NCDOT STANDARDS AND SPECIFICATIONS.

GENERAL NOTES

1. THE FOLLOWING INFORMATION WAS USED TO OBTAIN NC GRID NAD83(2011)/NAVD88 STATE PLANE COORDINATES (SPC) FOR THIS PROJECT:

CLASS OF SURVEY: URBAN LAND SURVEYS (CLASS A)
POSITIONAL ACCURACY: 0.05'
GPS FIELD PROCEDURE: VRS
DATES OF SURVEY: 10/29/14 AND 10/30/14
DATUM/EPOCH: NAD83(2011), EPOCH 2010.00
PUBLISHED/FIXED CONTROL USED: VRS, NCRD
GEOID MODEL: NCGE01D2A
COMBINED GRID FACTOR: 0.99993032
UNITS: US SURVEY FEET
GRID/GROUND POINT: Y(N): 318,941.80 X(E): 1,976,485.85 ELEV: 142.21'
2. ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES IN U.S. SURVEY FEET UNLESS OTHERWISE NOTED.
3. AREAS SHOWN HEREON WERE COMPUTED USING THE COORDINATE COMPUTATION METHOD.
4. LINES NOT SURVEYED ARE SHOWN AS BROKEN LINES FROM INFORMATION REFERENCED ON THE FACE OF THIS PLAT.
5. PROPERTY SUBJECT TO ALL EASEMENTS AND RESTRICTIONS OF RECORD. THIS PLAT IS A CORRECT REPRESENTATION OF THE LAND PLATTED AND HAS BEEN PREPARED IN CONFORMITY WITH NORTH CAROLINA STANDARDS, G.S. 47-30, AND REQUIREMENTS OF LAW, BUT A NORTH CAROLINA LICENSED ATTORNEY-AT-LAW SHOULD BE CONSULTED REGARDING CORRECT OWNERSHIP, WIDTH, AND LOCATION OF EASEMENTS AND OTHER TITLE QUESTIONS REVEALED BY TITLE EXAMINATION.
6. A PORTION OF THE SUBJECT PROPERTY IS LOCATED WITHIN A FLOOD HAZARD AREA ACCORDING TO EFFECTIVE FLOOD INSURANCE RATE MAP 3710937100J DATED JANUARY 19, 2005. SUBJECT PROPERTY IS NOT LOCATED WITHIN A FLOOD HAZARD AREA ACCORDING TO PRELIMINARY FLOOD INSURANCE RATE MAP 3710937100K DATED AUGUST 29, 2014.
7. LOCATION OF UTILITIES, WHETHER PUBLIC OR PRIVATE, IS BASED UPON FIELD AND PHOTOGRAMMETRIC LOCATION OF VISIBLE APPURTENANCES IN CONJUNCTION WITH THE LOCATION OF UNDERGROUND UTILITY MARKING PAINT BY ACCUMARK, INC (QUALITY LEVEL B) AND IS APPROXIMATE ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATION PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION. WSP CANNOT ASSUME RESPONSIBILITY FOR MISIDENTIFICATION OR OMISSION OF UNDERGROUND UTILITIES. DUE TO OSHA REQUIREMENTS PERTAINING TO CONFINED SPACE ENTRY, PIPE SIZES, INVERT ELEVATIONS, ETC., WILL ONLY BE PROVIDED IF FIELD PERSONNEL ARE ABLE TO OBTAIN WITHOUT BREAKING THE PLANE OF THE TOP OF THE STRUCTURE.
8. A PORTION OF THE PLANIMETRIC AND TOPOGRAPHIC LOCATION ON THIS MAP IS BASED ON PHOTOGRAMMETRIC MAPPING OF IMAGERY COLLECTED ON OCTOBER 17, 2014. THE IMAGERY CAPTURED IS SUITABLE TO CREATE 1"=50' SCALE MAPPING AND CONTOURS AT AN INTERVAL OF 1'. THE MAPPING MEETS NATIONAL MAP ACCURACY STANDARDS FOR 1"=50' SCALE MAPPING. DATA PROVIDED WHERE CLEAR AND VISIBLE ON THE IMAGERY IS WITHIN 0.6' OF ITS TRUE POSITION.

BIDDING DOCUMENTS

DESIGNED BY: FACILITIES DESIGN ARCHITECTS & ENGINEERS FACILITIES MANAGEMENT INCDOT
1 SOUTH WILKINSON STREET RALEIGH, NORTH CAROLINA 27601 PHONE: 919/707-4540 FAX: 919/715-0999

CONSULTANT: B&F CONSULTING
2808 TOBERMORY LANE RALEIGH, NORTH CAROLINA 27606 PHONE: 919/883-9102 FAX: 919/883-9102 NC LICENSE C2-148

DRAWING TITLE / DESCRIPTION: PROJECT NOTES

PROJECT TITLE: LUMBERTON EQUIPMENT SHOP NCDOT HIGHWAY DIVISION 6

STATE CONSTRUCTION ID.# 16-12916-01A

ASSET NUMBER: 78-06-00

REVISIONS NO.	DATE

DATE ISSUED: 1/26/2018
DRAWN BY: AF
CHECKED BY: RUB
SHEET NO. C0.0

28360 (ROBESON COUNTY) 872 NC 711 HIGHWAY LUMBERTON, NORTH CAROLINA

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EXISTING LEGEND

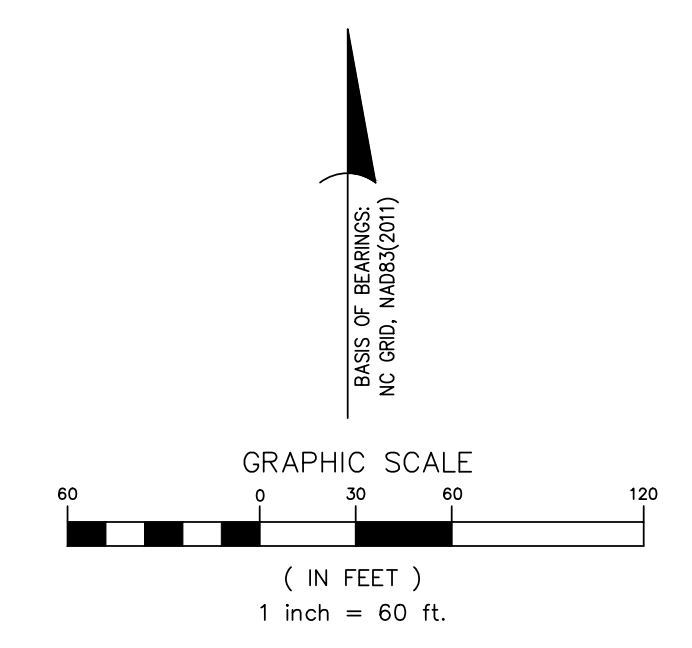
- IRF (SQUARE) ● 1/2"x1/2" SQUARE ROD FOUND
- RBF ● #4 REBAR FOUND
- BUSH/SHRUB
- BUSH/SHRUB LINE
- COMPUTED POINT
- CONCRETE WALK/PAD/PATH
- CMF ■ CONCRETE MONUMENT FOUND
- EOI END OF S.I.E. INFORMATION
- EXISTING EASEMENT (AS LABELED)
- FENCE
- GAS ● GAS TEST STATION
- GUARD RAIL
- ⊕ LIGHT POLE
- PROPERTY LINE
- PROPERTY LINE (NOT SURVEYED)
- RIGHT-OF-WAY (NOT SURVEYED)
- ⊙ SEWER MANHOLE
- ⊕ SIGN
- ⊕ SPOT ELEVATION
- STORM PIPE
- STORM PIPE (APPROXIMATE DIRECTION)
- STORM STRUCTURE
- TELEPHONE PEDESTAL
- ★ TREE (CONIFEROUS)
- TREE (DECIDUOUS)
- TREE LINE
- UNDERGROUND ELECTRIC BOX
- UNDERGROUND FIBER OPTIC BOX
- UM ● UNDERGROUND UTILITY MARKER
- UTILITY PAINT MARKS - AIR
- UTILITY PAINT MARKS - ELECTRIC
- UTILITY PAINT MARKS - FIBER OPTIC
- UTILITY PAINT MARKS - FUEL
- UTILITY PAINT MARKS - GAS
- UTILITY PAINT MARKS - SEWER
- UTILITY PAINT MARKS - TELEPHONE
- UTILITY PAINT MARKS - UNKNOWN
- UTILITY PAINT MARKS - WATER
- UTILITY POLE
- UTILITY LINE (OVERHEAD)
- WATER METER
- WV ● WATER VALVE

SOURCE OF TITLE
 PIN: 9371-79-20-5800
 DB 8F, PG. 70
 PIN: 9371-69-73-4300
 DB 759, PG. 503

MAP REFERENCES
 MAP BOOK 13, PG. 113
 NCDOT HIGHWAY PLANS FOR PROJECT 37228/39168

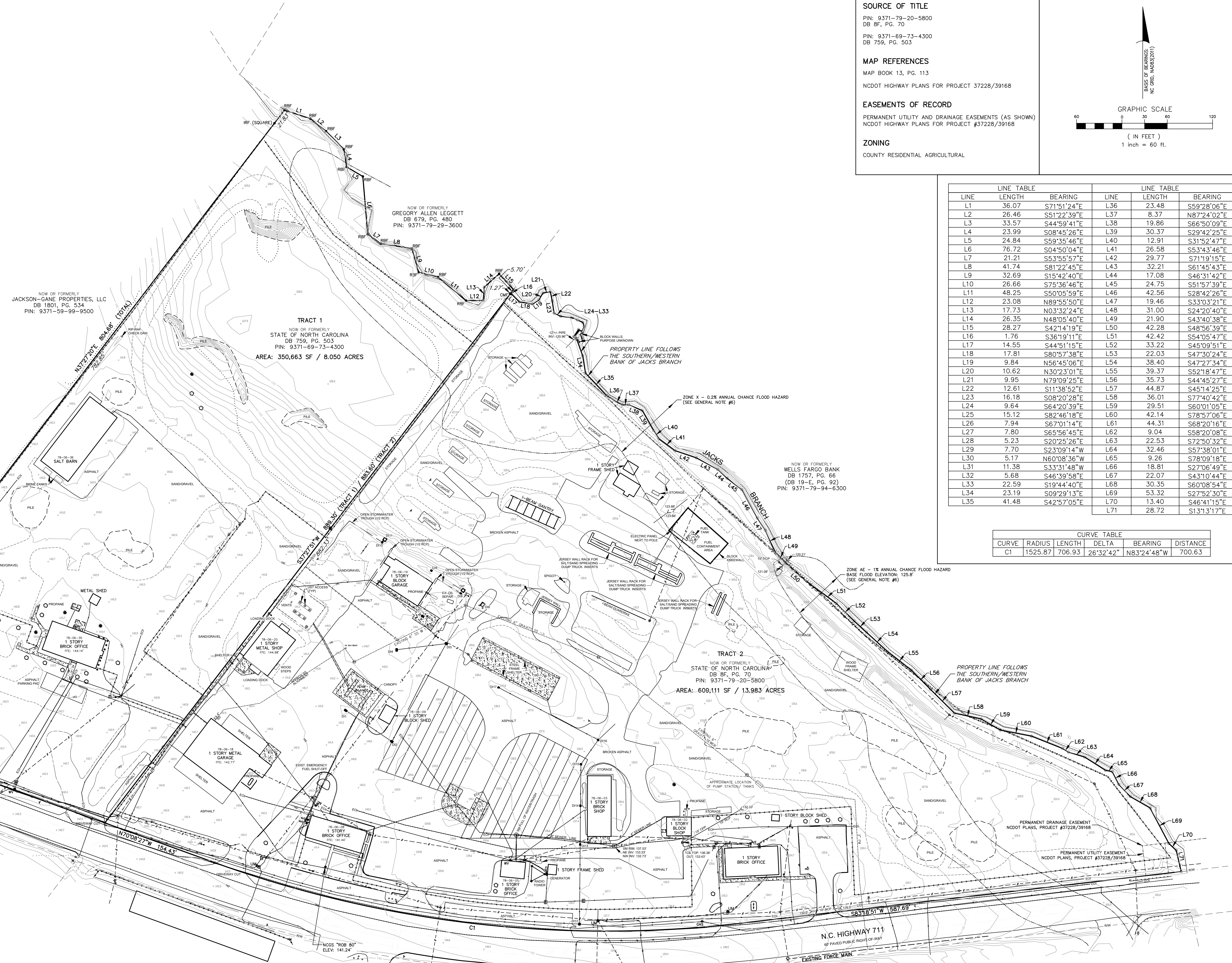
EASEMENTS OF RECORD
 PERMANENT UTILITY AND DRAINAGE EASEMENTS (AS SHOWN)
 NCDOT HIGHWAY PLANS FOR PROJECT #37228/39168

ZONING
 COUNTY RESIDENTIAL AGRICULTURAL



LINE TABLE			LINE TABLE		
LINE	LENGTH	BEARING	LINE	LENGTH	BEARING
L1	36.07	S71°51'24"E	L36	23.48	S59°28'06"E
L2	26.46	S51°22'39"E	L37	8.37	N87°24'02"E
L3	33.57	S44°59'41"E	L38	19.86	S66°50'09"E
L4	23.99	S08°45'26"E	L39	30.37	S29°42'25"E
L5	24.84	S59°35'46"E	L40	12.91	S31°52'47"E
L6	76.72	S04°50'04"E	L41	26.58	S53°43'46"E
L7	21.21	S53°55'57"E	L42	29.77	S71°19'15"E
L8	41.74	S81°22'45"E	L43	32.21	S61°45'43"E
L9	32.69	S15°42'40"E	L44	17.08	S46°31'42"E
L10	26.66	S75°36'46"E	L45	24.75	S51°57'39"E
L11	48.25	S50°05'59"E	L46	42.56	S28°42'26"E
L12	23.08	N89°55'50"E	L47	19.46	S33°03'21"E
L13	17.73	N03°32'24"E	L48	31.00	S24°20'40"E
L14	26.35	N48°05'40"E	L49	21.90	S43°40'38"E
L15	28.27	S42°14'19"E	L50	42.28	S48°56'39"E
L16	1.76	S36°19'11"E	L51	42.42	S54°05'47"E
L17	14.55	S44°51'15"E	L52	33.22	S45°09'51"E
L18	17.81	S80°57'38"E	L53	22.03	S47°30'24"E
L19	9.84	N56°45'06"E	L54	38.40	S47°27'34"E
L20	10.62	N30°23'01"E	L55	39.37	S52°18'47"E
L21	9.95	N79°09'25"E	L56	35.73	S44°45'27"E
L22	12.61	S11°38'52"E	L57	44.87	S45°14'25"E
L23	16.18	S08°20'28"E	L58	36.01	S77°40'42"E
L24	9.64	S64°20'39"E	L59	29.51	S60°01'05"E
L25	15.12	S82°46'18"E	L60	42.14	S78°57'06"E
L26	7.94	S67°01'14"E	L61	44.31	S68°20'16"E
L27	7.80	S65°56'45"E	L62	9.04	S58°20'08"E
L28	5.23	S20°25'26"E	L63	22.53	S72°50'32"E
L29	7.70	S23°09'14"W	L64	32.46	S57°38'01"E
L30	5.17	N60°08'36"W	L65	9.26	S78°09'18"E
L31	11.38	S33°31'48"W	L66	18.81	S27°06'49"E
L32	5.68	S46°39'58"E	L67	22.07	S43°10'44"E
L33	22.59	S19°44'40"E	L68	30.35	S60°08'54"E
L34	23.19	S09°29'13"E	L69	53.32	S27°52'30"E
L35	41.48	S42°57'05"E	L70	13.40	S46°41'15"E
			L71	28.72	S13°13'17"E

CURVE TABLE				
CURVE	RADIUS	LENGTH	DELTA	BEARING
C1	1525.87	706.93	26°32'42"	N83°24'48"W
				700.63



BIDDING DOCUMENTS

DESIGNED BY: **FACILITIES DESIGN ARCHITECTS & ENGINEERS**
 FACILITIES MANAGEMENT DIVISION, NCDOT
 1 SOUTH HANCOCK STREET
 RALEIGH, NORTH CAROLINA 27601
 PHONE: 919/707-4540 FAX: 919/715-0999

CONSULTANT: **WSP SURVEY SERVICES**
 15401 WESTON PARKWAY, STE 100
 CARY, NORTH CAROLINA 27513
 PHONE: 919/678-0035

DRAWING TITLE / DESCRIPTION:
EXISTING CONDITIONS OVERALL PROJECT SITE

PROJECT TITLE:
LUMBERTON EQUIPMENT SHOP NCDOT HIGHWAY DIVISION 6

872 NC HIGHWAY 711, LUMBERTON, NC 28360
 ROBESON COUNTY, NORTH CAROLINA

STATE CONSTRUCTION ID.# XX-XXXX-01A

ASSET NUMBER:
 CO.# SITE# BLDG.#

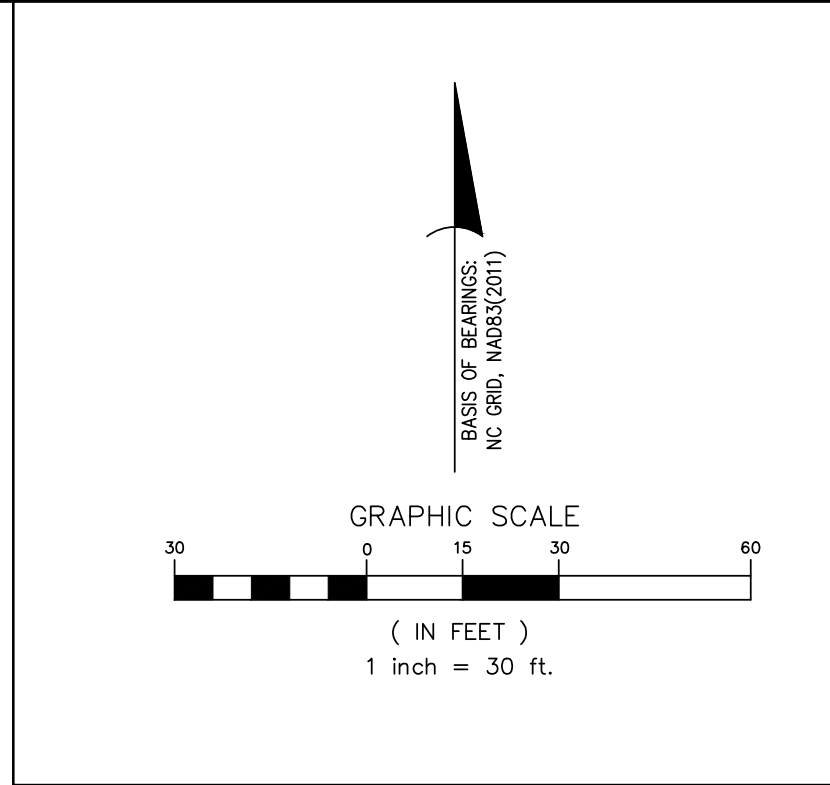
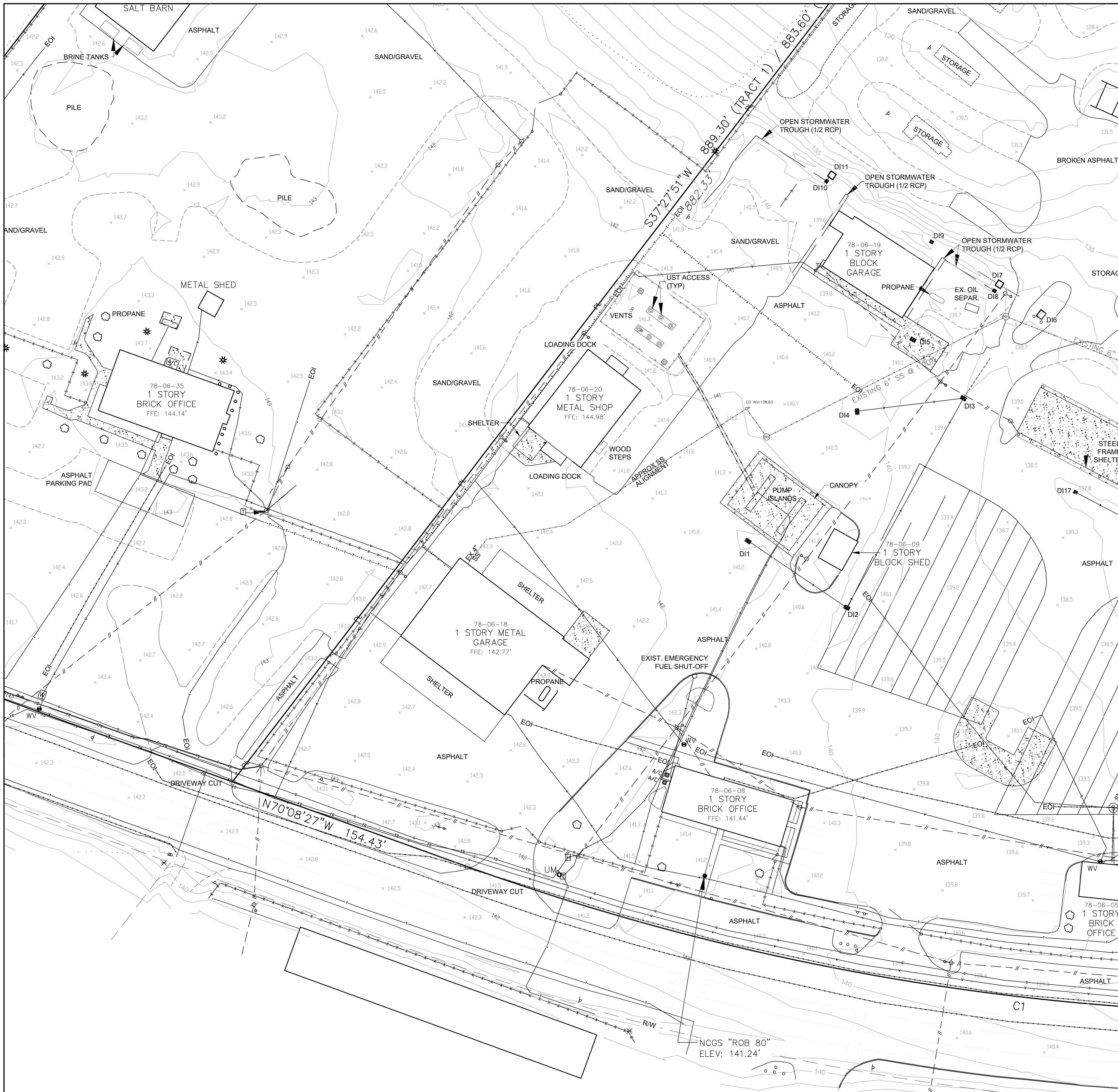
REVISIONS	NO.	DATE

DATE ISSUED: 11-21-14
 DRAWN BY: MG
 CHECKED BY: DB
 SHEET NO.

C0.1

PROGRESS PRINT - NOT FOR CONSTRUCTION

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EXISTING LEGEND	
IRF (SQUARE) ●	1/2"x1/2" SQUARE ROD FOUND
RBF ●	#4 REBAR FOUND
○	BUSH/SHRUB
○	COMPUTED POINT
▨	CONCRETE WALK/PAD/PATH
CMF ■	CONCRETE MONUMENT FOUND
EOI	END OF S.U.E. INFORMATION
---	EXISTING EASEMENT (AS LABELED)
---	FENCE
●	GAS TEST STATION
— —	GUARD RAIL
◆	LIGHT POLE
---	PROPERTY LINE
---	PROPERTY LINE (NOT SURVEYED)
---	RIGHT-OF-WAY (NOT SURVEYED)
⊙	SEWER MANHOLE
⊙	SIGN
⊙	SPOT ELEVATION
---	STORM PIPE
---	STORM PIPE (APPROXIMATE DIRECTION)
■	STORM STRUCTURE
⊙	TELEPHONE PEDESTAL
★	TREE (CONIFEROUS)
○	TREE (DECIDUOUS)
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---	UTILITY PAINT MARKS - WATER
⊙	UTILITY POLE
---	UTILITY LINE (OVERHEAD)
⊙	WATER METER
wv ●	WATER VALVE

BIDDING DOCUMENTS

DESIGNED BY: **FACILITIES DESIGN ARCHITECTS & ENGINEERS**
FACILITIES MANAGEMENT DIVISION, NCDOT
1 SOUTH WILKINSON STREET
Raleigh, North Carolina 27601
PHONE: 919/707-4540 FAX: 919/715-0999

CONSULTANT: **WSP SURVEY SERVICES**
15401 WESTON PARKWAY, STE 100
CARY, NORTH CAROLINA 27513
PHONE: 919/678-0035

EXISTING CONDITIONS

PROJECT TITLE: **LUMBERTON EQUIPMENT SHOP**
NCDOT HIGHWAY DIVISION 6

872 NC HIGHWAY 711, LUMBERTON, NC 28360
ROBEESON COUNTY, NORTH CAROLINA

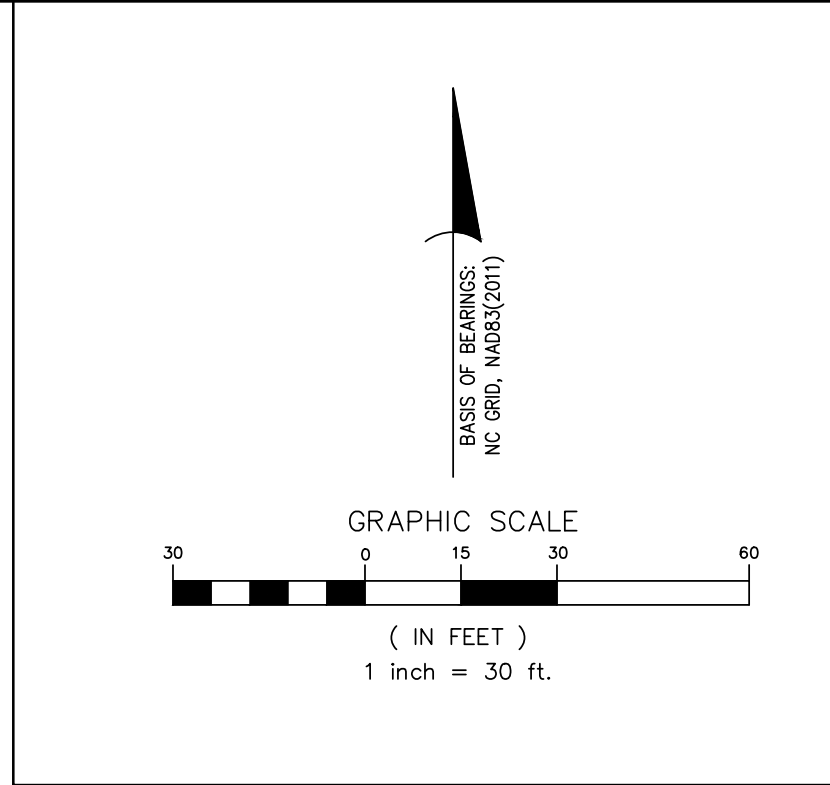
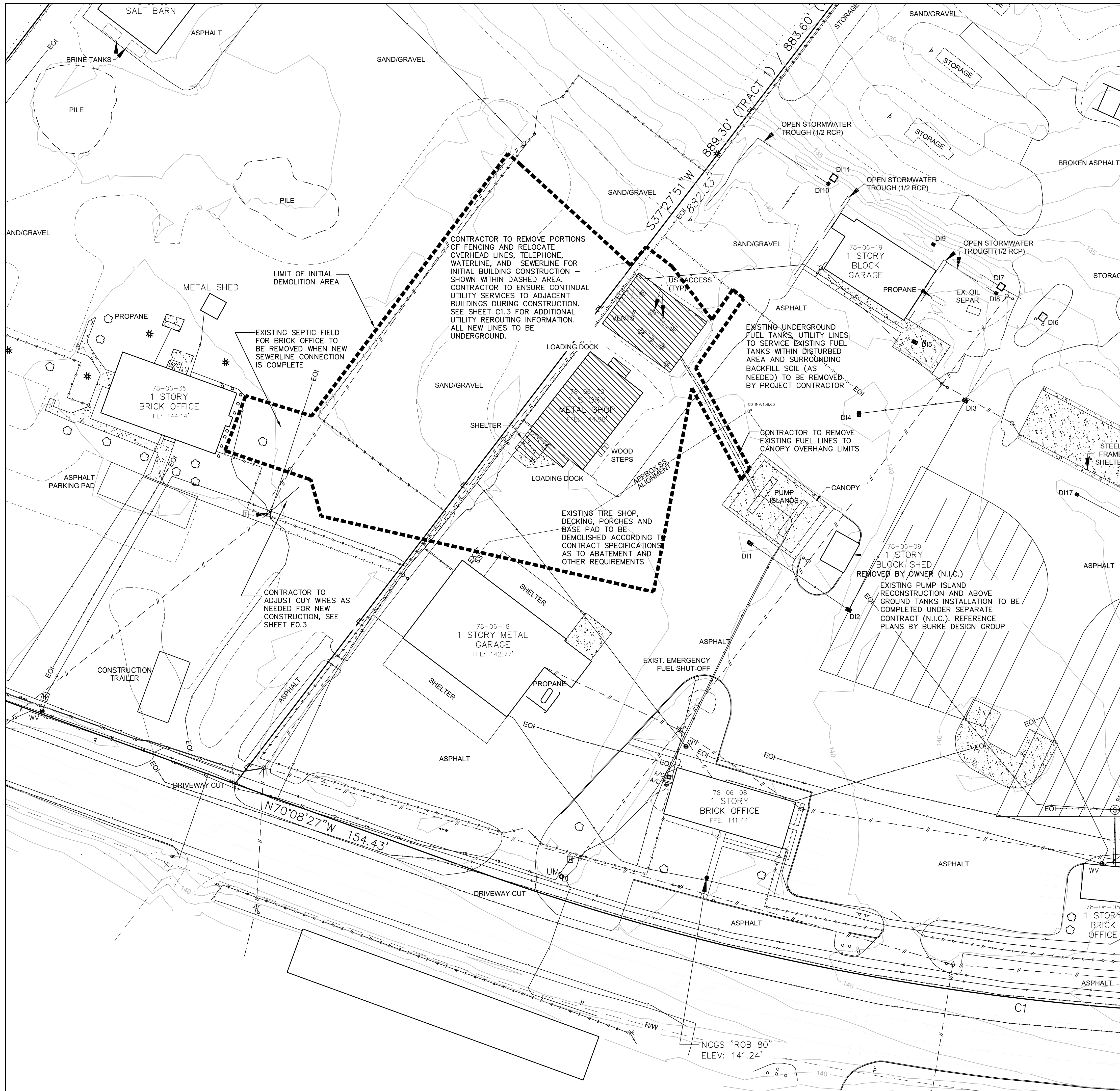
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ASSET NUMBER: CO.# SITE# BLDG.#

REVISIONS NO.	DATE

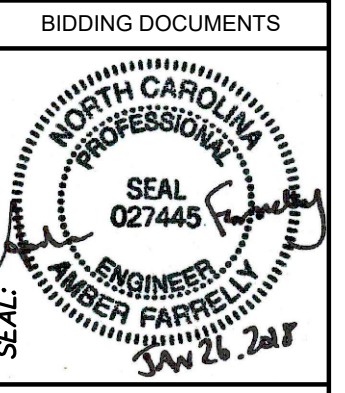
DATE ISSUED: 11-21-14
DRAWN BY: MG
CHECKED BY: DB
SHEET NO.

C0.2

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EXISTING LEGEND	
IRF (SQUARE) ●	1/2"x1/2" SQUARE ROD FOUND
RBF ●	#4 REBAR FOUND
○	BUSH/SHRUB
○	BUSH/SHRUB LINE
○	COMPUTED POINT
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CMF ■	CONCRETE MONUMENT FOUND
EOI	END OF S.U.E. INFORMATION
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---	GUARD RAIL
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---	STORM PIPE (APPROXIMATE DIRECTION)
■	STORM STRUCTURE
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DESIGNED BY:
FACILITIES DESIGN
 ARCHITECTS & ENGINEERS
 FACILITIES MANAGEMENT DIVISION, NCDOT
 1 SOUTH WILMINGTON STREET
 RALEIGH, NORTH CAROLINA 27601
 PHONE: 919/707-4540 FAX 919/715-0399



CONSULTANT:
B&F
 CONSULTING
 2805 FOREBROOK LANE
 RALEIGH, NORTH CAROLINA 27606
 PHONE: 919/883-9102
 FAX: 919/883-9102
 NC LICENSE C2-148

DRAWING TITLE / DESCRIPTION:
DEMOLITION PLAN
INITIAL CONSTRUCTION

PROJECT TITLE:
LUMBERTON EQUIPMENT SHOP
NC DOT HIGHWAY DIVISION 6

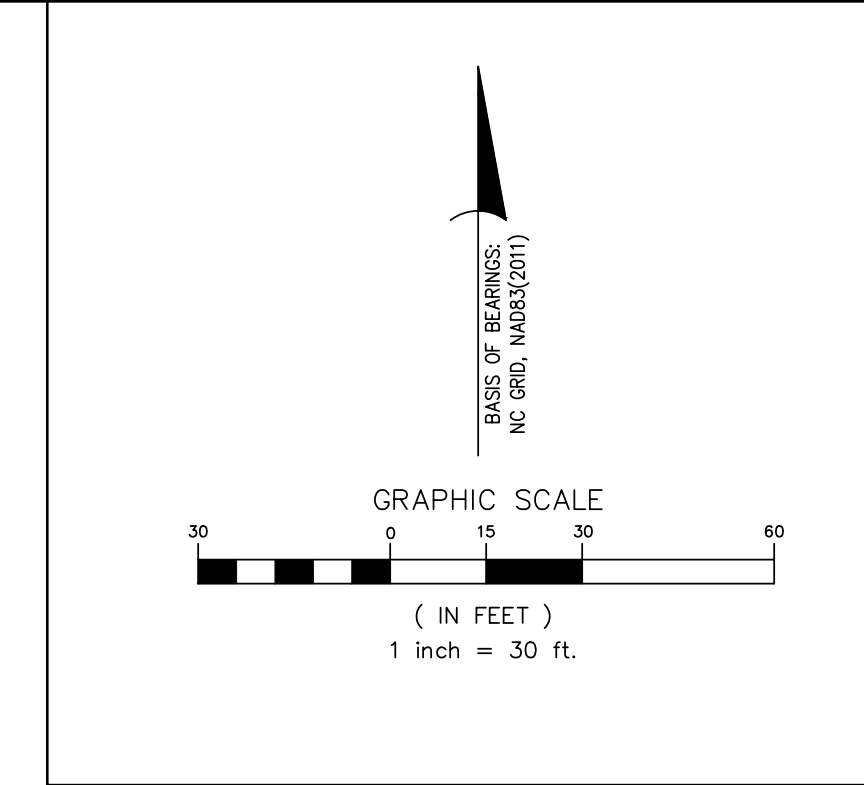
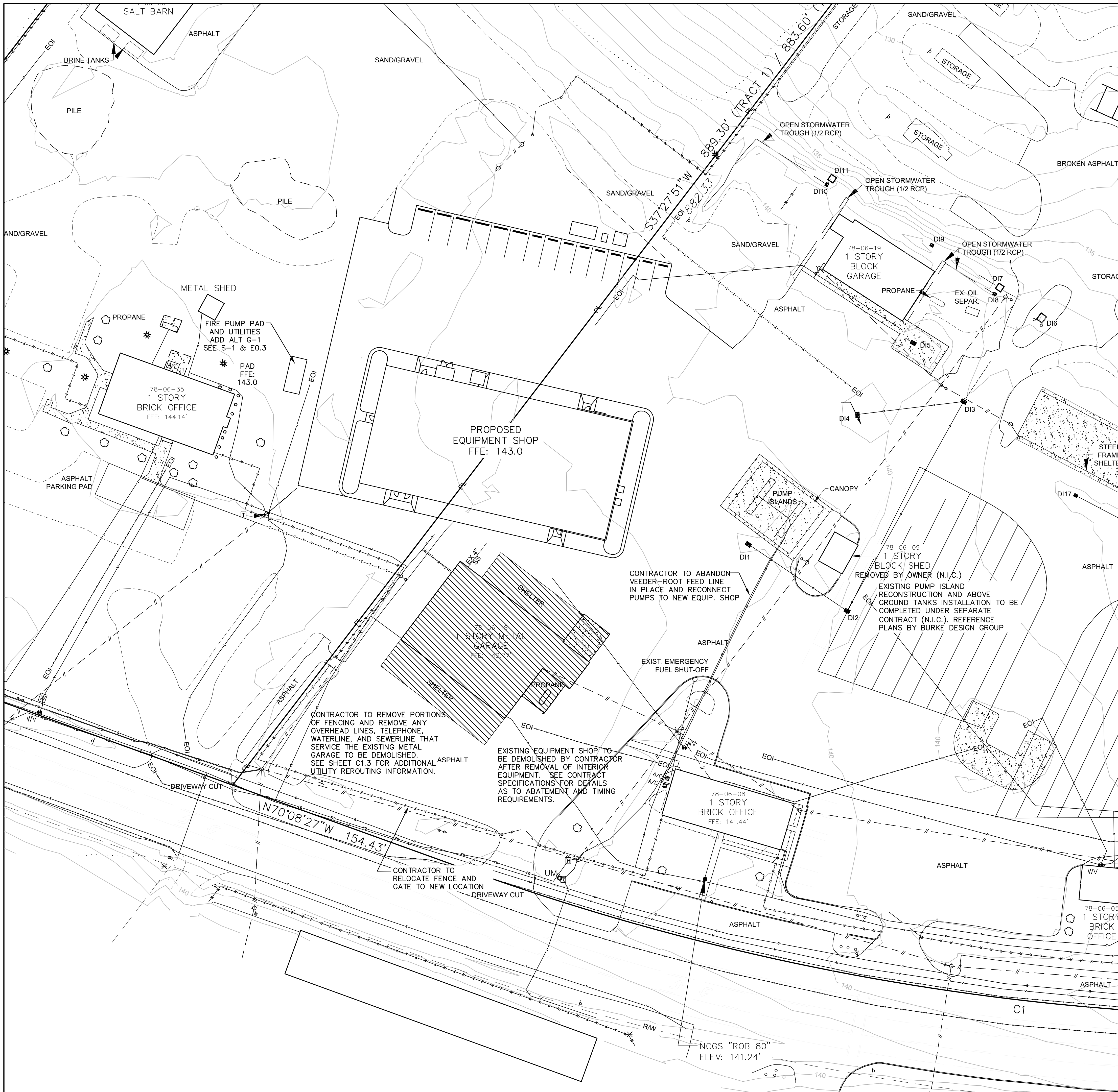
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ASSET NUMBER:		
CO.#	SITE #	BLDG.#
78	06	00

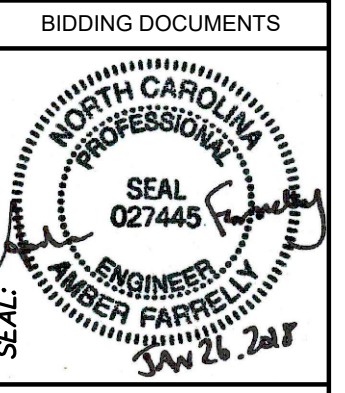
REVISIONS	
NO.	DATE

DATE ISSUED: 1/26/2018
 DRAWN BY: AF
 CHECKED BY: RJB
 SHEET NO.

C1.1



EXISTING LEGEND	
IRF (SQUARE) ●	1/2"x1/2" SQUARE ROD FOUND
RBF ●	#4 REBAR FOUND
○	BUSH/SHRUB
○	BUSH/SHRUB LINE
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■	STORM STRUCTURE
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⊕	WATER METER
wv ●	WATER VALVE



DESIGNED BY:
FACILITIES DESIGN ARCHITECTS & ENGINEERS
 FACILITIES MANAGEMENT DIVISION, NCDOT
 1 SOUTH WILMINGTON STREET
 RALEIGH, NORTH CAROLINA 27601
 PHONE: 919/707-4540 FAX: 919/707-0399



CONSULTANT:
B&F CONSULTING
 2805 FOREBROOK LANE
 RALEIGH, NORTH CAROLINA 27606
 PHONE: 919/883-9102
 FAX: 919/883-9102
 NC LICENSE: C2-148

DRAWING TITLE / DESCRIPTION:
**DEMOLITION PLAN
 STAFF PARKING CONSTRUCTION**

PROJECT TITLE:
**LUMBERTON EQUIPMENT SHOP
 HIGHWAY DIVISION 6**
 872 NC 711 HIGHWAY
 LUMBERTON, NORTH CAROLINA 28360 (ROBESON COUNTY)

STATE CONSTRUCTION ID.# 16-12916-01A

ASSET NUMBER:
 CO. SITE BLDG.
 78-06-00

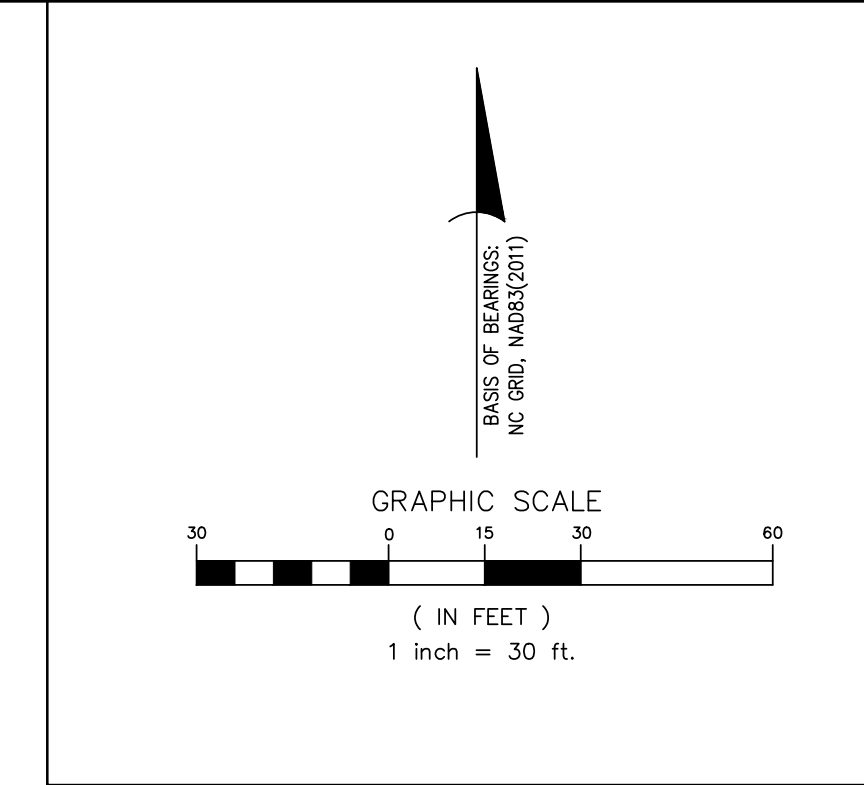
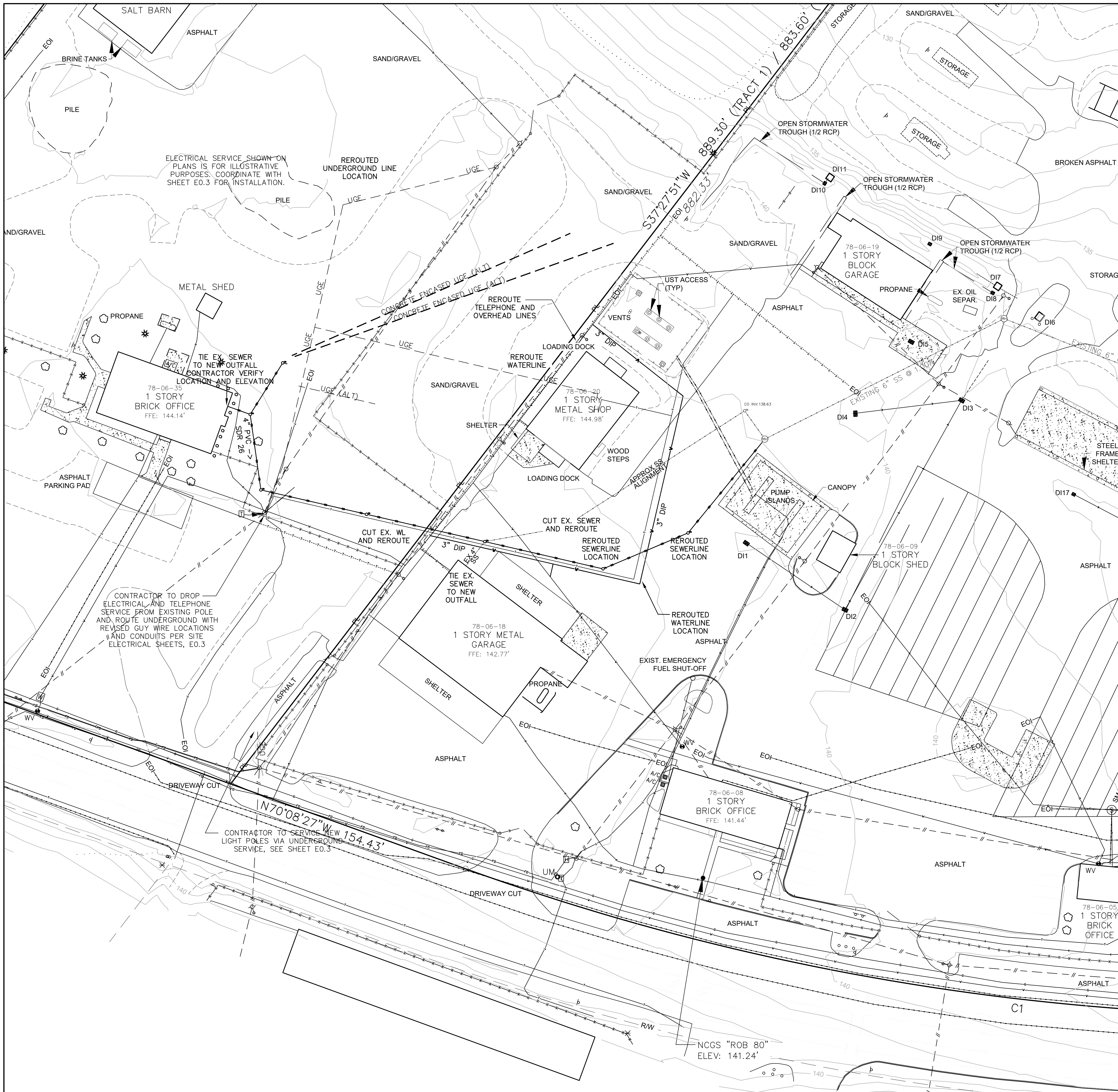
REVISIONS NO.	DATE

DATE ISSUED: 1/26/2018

DRAWN BY: AF
 CHECKED BY: RJB

SHEET NO.

C1.2



EXISTING LEGEND	
IRF (SQUARE) ●	1/2"x1/2" SQUARE ROD FOUND
RBF ●	#4 REBAR FOUND
○	BUSH/SHRUB
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⊥	UTILITY POLE
---	UTILITY LINE (OVERHEAD)
⊞	WATER METER
wv ●	WATER VALVE

BIDDING DOCUMENTS

DESIGNED BY: **FACILITIES DESIGN ARCHITECTS & ENGINEERS**
 FACILITIES MANAGEMENT DIVISION, NCDOT
 1 SOUTH WILKINSON STREET
 RALEIGH, NORTH CAROLINA 27601
 PHONE: 919/707-4540 FAX: 919/715-0399

CONSULTANT: **B&F CONSULTING**
 2805 TOBERMORY LANE
 RALEIGH, NORTH CAROLINA 27606
 PHONE: 919/883-9102
 FAX: 919/883-9102
 NC LICENSE C2-148

DRAWING TITLE / DESCRIPTION: **REROUTE UTILITIES**

PROJECT TITLE: **LUMBERTON EQUIPMENT SHOP NCDOT HIGHWAY DIVISION 6**
 872 NC 711 HIGHWAY
 LUMBERTON, NORTH CAROLINA 28360 (ROBESON COUNTY)

STATE CONSTRUCTION ID.# 16-12916-01A

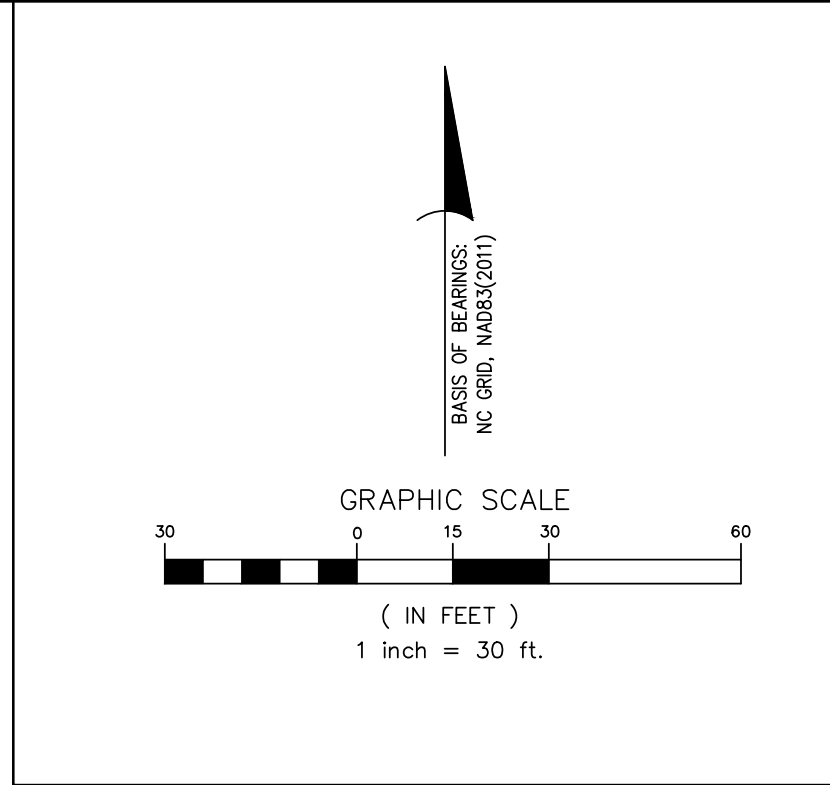
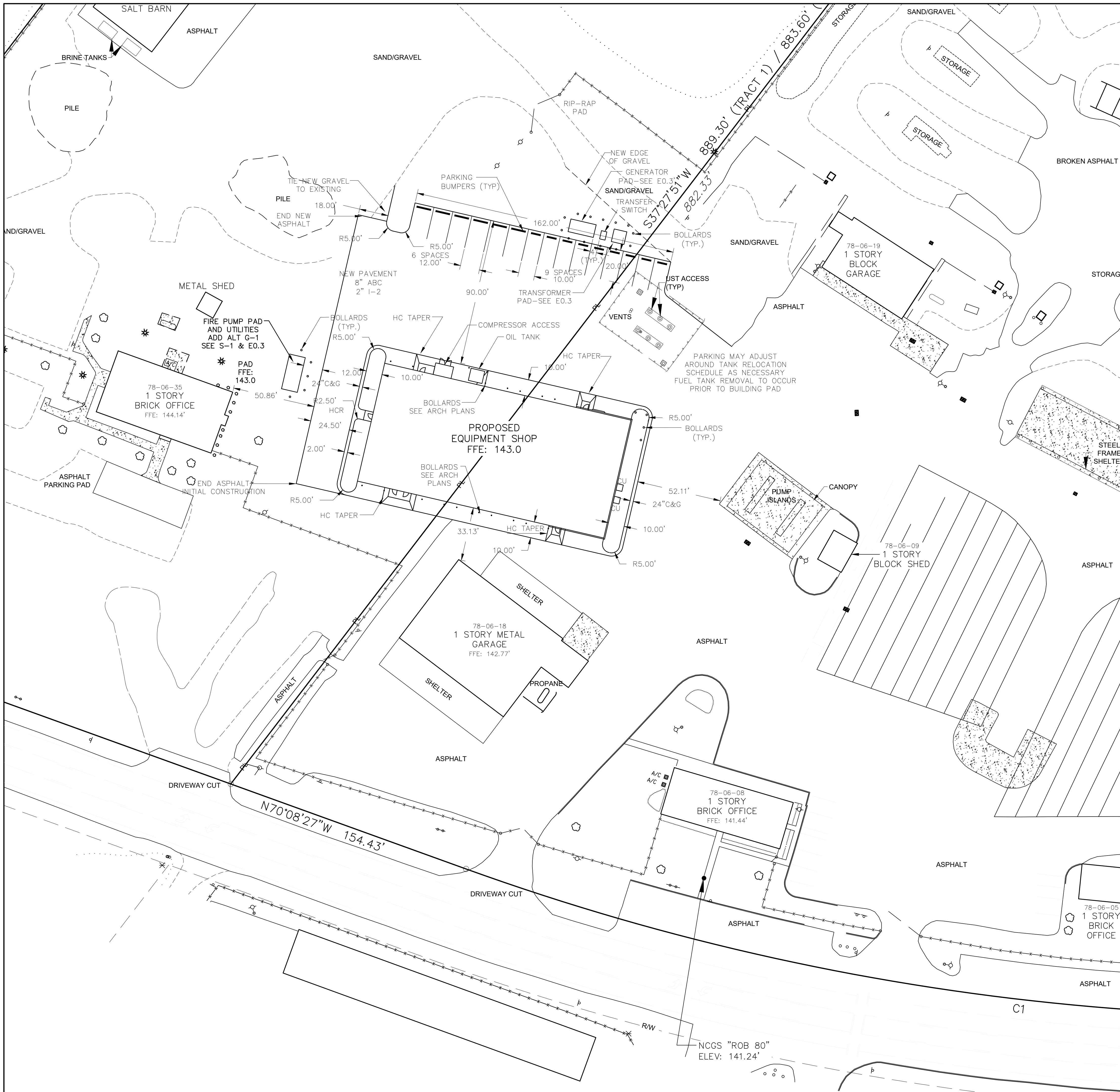
ASSET NUMBER:
 CO. SITE BLDG.
 78-06-00

REVISIONS NO.	DATE

DATE ISSUED: 1/26/2018
 DRAWN BY: AF
 CHECKED BY: RJB
 SHEET NO.

C1.3

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EXISTING LEGEND	
IRF (SQUARE)	1/2"x1/2" SQUARE ROD FOUND
RBF	#4 REBAR FOUND
○	BUSH/SHRUB
○	BUSH/SHRUB LINE
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⊕	SPOT ELEVATION
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---	STORM PIPE (APPROXIMATE DIRECTION)
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⊕	UTILITY POLE
---	UTILITY LINE (OVERHEAD)
⊕	WATER METER
wv	WATER VALVE

BIDDING DOCUMENTS

SEAL: NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 027445
 DESIGNER: FACILITIES DESIGN ARCHITECTS & ENGINEERS
 FACILITIES MANAGEMENT DIVISION NCDOT
 1 SOUTH WILKINSON STREET
 RALEIGH, NORTH CAROLINA 27601
 PHONE: 919/707-4540 FAX 919/715-0399

CONSULTANT: B&F CONSULTING
 2805 TOBERMORY LANE
 RALEIGH, NORTH CAROLINA 27606
 PHONE: 919/883-9102
 FAX: 919/883-9102
 NC LICENSE C2-148

DRAWING TITLE / DESCRIPTION: PROPOSED SITE PLAN
 INITIAL CONSTRUCTION

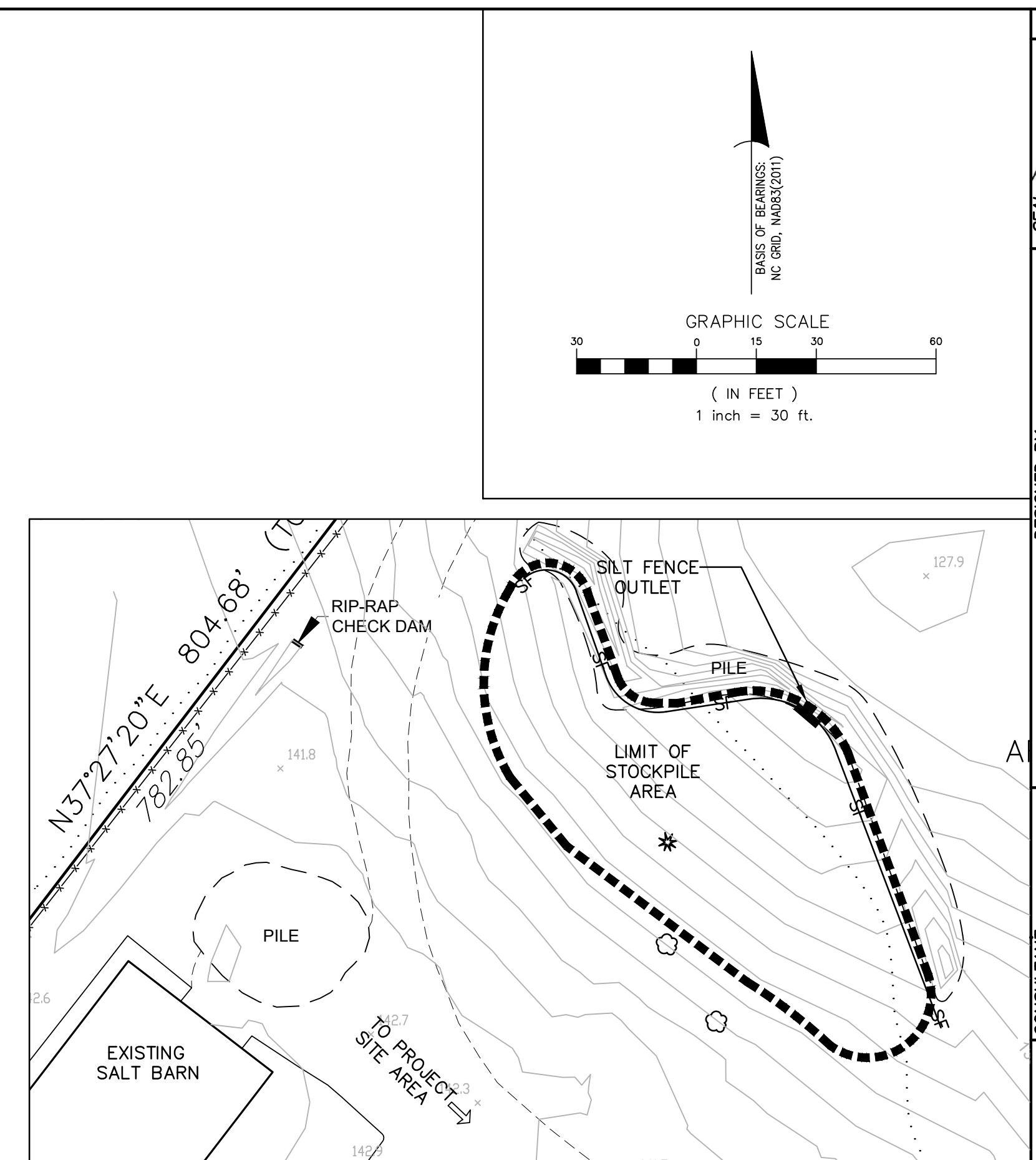
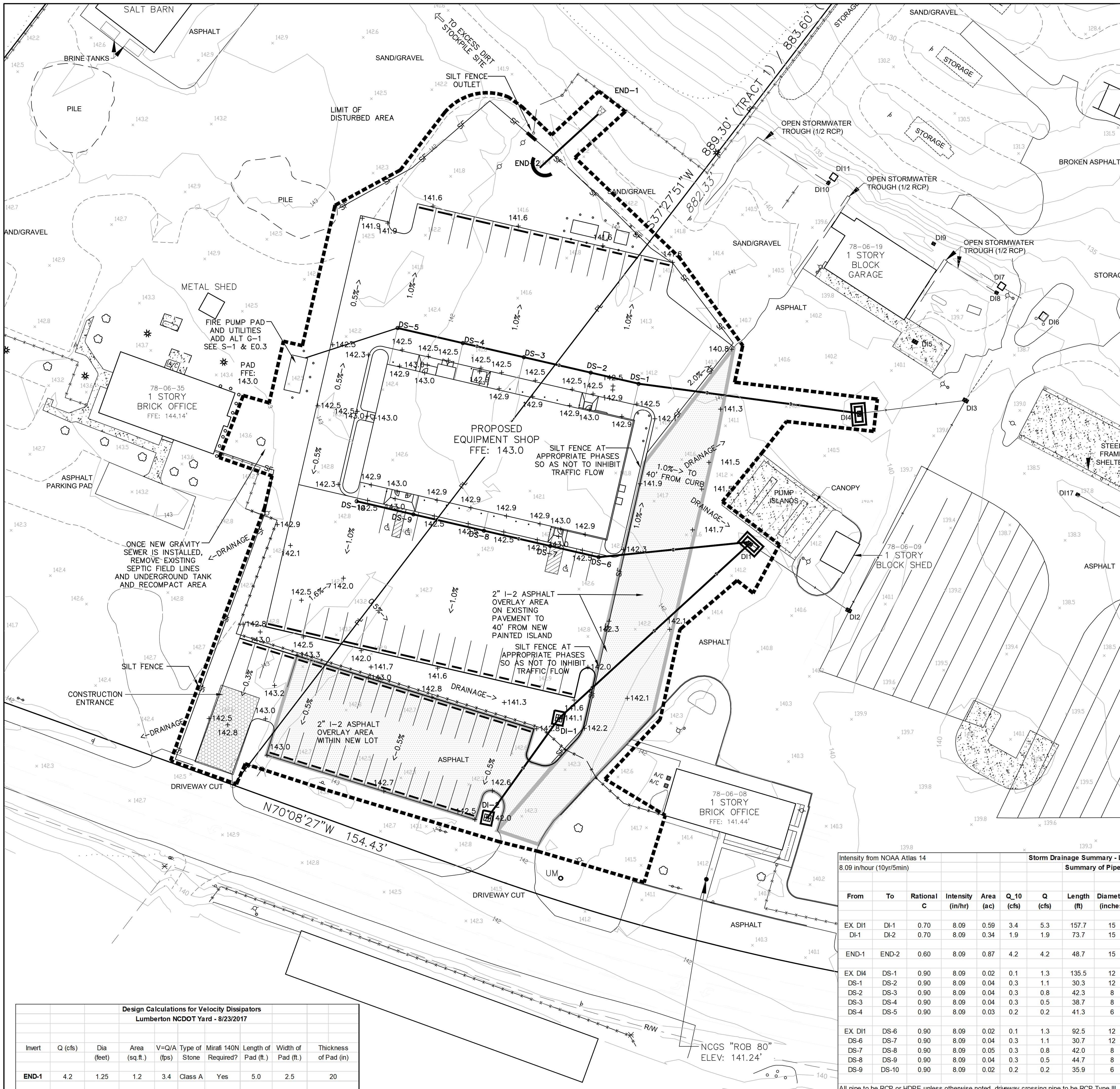
PROJECT TITLE: LUMBERTON EQUIPMENT SHOP
 NCDOT HIGHWAY DIVISION 6

STATE CONSTRUCTION ID.# 16-12916-01A
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 DRAWN BY: AF
 CHECKED BY: RJB
 SHEET NO. C2.1

872 NC 711 HIGHWAY
 LUMBERTON, NORTH CAROLINA 28360 (ROBESON COUNTY)

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EROSION CONTROL LEGEND

- SILT FENCE (C6.2, #1, NCDOT 1605.01)
- TREE PROTECTION FENCE (C6.2, DETAIL 6)
- SILT FENCE OUTLET (C6.2, #4, NCDOT 1606.01)
- PIPE INLET PROTECTION (C6.2, DETAIL 2)
- DROP INLET PROTECTION (C6.2, #12, NCDOT 1632.03)
- SILT SACK INLET PROT (C6.2, DETAIL 13)
- RIPRAP PAD (C6.2, DETAILS 5 & 8)
- DISTURBED AREA (115,383 SF = 2.6 AC)
- TEMPORARY CONSTRUCTION ENTRANCE (C6.2, #3, NCDOT 1607.01)

IMPERVIOUS CALCULATIONS (JANUARY 8, 2015)

TOTAL PROJECT AREA: 94133 SF = 2.16 ACRES

EXISTING IMPERVIOUS AREA: 55,560 SF = 1.28 ACRES
 EXISTING PERVIOUS AREA: 38,573 SF = 0.88 ACRES
 EXISTING BUILT UPON AREA = 59.3%

PROPOSED IMPERVIOUS AREA: 80,784 SF = 1.85 ACRES
 PROPOSED PERVIOUS AREA: 13,349 SF = 0.30 ACRES
 PROPOSED BUILT UPON AREA = 85.7%

Intensity from NOAA Atlas 14
8.09 in/hour (10yr/5min)

Storm Drainage Summary - Lumberton NCDOT Yard
Summary of Pipes - 8/23/2017

From	To	Rational C	Intensity (in/hr)	Area (ac)	Q ₁₀ (cfs)	Q (cfs)	Length (ft)	Diameter (inches)	Material	DI	Slope (%)	Invert (From)	Invert (To)
EX DI1	DI-1	0.70	8.09	0.59	3.4	5.3	157.7	15	RCP	15.8	0.50%	137.72	138.51
DI-1	DI-2	0.70	8.09	0.34	1.9	1.9	73.7	15	RCP	10.8	0.50%	138.71	139.08
END-1	END-2	0.60	8.09	0.87	4.2	4.2	48.7	15	RCP	14.6	0.50%	140.50	140.74
EX DI4	DS-1	0.90	8.09	0.02	0.1	1.3	135.5	12	HDPE	9.3	0.50%	137.36	138.04
DS-1	DS-2	0.90	8.09	0.04	0.3	1.1	30.3	12	HDPE	8.9	0.50%	138.24	138.39
DS-2	DS-3	0.90	8.09	0.04	0.3	0.8	42.3	8	HDPE	8.0	0.50%	138.59	138.80
DS-3	DS-4	0.90	8.09	0.04	0.3	0.5	38.7	8	HDPE	6.7	0.50%	139.00	139.19
DS-4	DS-5	0.90	8.09	0.03	0.2	0.2	41.3	6	HDPE	4.7	0.50%	139.39	139.60
EX DI1	DS-6	0.90	8.09	0.02	0.1	1.3	92.5	12	HDPE	9.3	0.50%	137.72	138.18
DS-6	DS-7	0.90	8.09	0.04	0.3	1.1	30.7	12	HDPE	8.9	0.50%	138.38	138.54
DS-7	DS-8	0.90	8.09	0.05	0.3	0.8	42.0	8	HDPE	7.9	0.50%	138.74	138.95
DS-8	DS-9	0.90	8.09	0.04	0.3	0.5	44.7	8	HDPE	6.5	0.50%	139.15	139.37
DS-9	DS-10	0.90	8.09	0.02	0.2	0.2	35.9	6	HDPE	4.4	0.50%	139.57	139.75

Storm Drainage Summary
Summary of Structures

Structure	Type	Rational C	Intensity (in/hr)	Area (ac)	Q ₁₀ (cfs)	Reference Elevation (TOP)	Depth (ft)
DI-1	Drop Inlet	0.70	8.09	0.59	3.4	141.10	2.6
DI-2	Drop Inlet	0.70	8.09	0.34	1.9	142.00	2.9
END-2	Pipe End	0.60	8.09	0.87	4.2	142.10	1.4
DS-1	DS cleanout	0.90	8.09	0.02	0.1	142.50	4.5
DS-2	DS cleanout	0.90	8.09	0.04	0.3	142.50	4.1
DS-3	DS cleanout	0.90	8.09	0.04	0.3	142.50	3.7
DS-4	DS cleanout	0.90	8.09	0.04	0.3	142.50	3.3
DS-5	DS cleanout	0.90	8.09	0.03	0.2	142.50	2.9
DS-6	DS cleanout	0.90	8.09	0.02	0.1	142.50	4.3
DS-7	DS cleanout	0.90	8.09	0.04	0.3	142.50	4.0
DS-8	DS cleanout	0.90	8.09	0.05	0.3	142.50	3.6
DS-9	DS cleanout	0.90	8.09	0.04	0.3	142.50	3.1
DS-10	DS cleanout	0.90	8.09	0.02	0.2	142.50	2.8

Design Calculations for Velocity Dissipators
Lumberton NCDOT Yard - 8/23/2017

Invert	Q (cfs)	Dia (feet)	Area (sq.ft.)	V=Q/A (fps)	Type of Stone	Miraf 140N Required?	Length of Pad (ft.)	Width of Pad (ft.)	Thickness of Pad (in)
END-1	4.2	1.25	1.2	3.4	Class A	Yes	5.0	2.5	20

BIDDING DOCUMENTS

DESIGNED BY: **FACILITIES DESIGN ARCHITECTS & ENGINEERS**
FACILITIES MANAGEMENT DIVISION NCDOT
1 SOUTH WILMINGTON STREET
RALEIGH, NORTH CAROLINA 27601
PHONE: 919/707-4540 FAX: 919/715-0999

CONSULTANT: **B&F CONSULTING**
2805 TOBENERY LANE
RALEIGH, NORTH CAROLINA 27606
PHONE: 919/883-9102
FAX: 919/883-9102
NC LICENSE C2-148

PROJECT TITLE / DESCRIPTION: **PROPOSED GRADING AND EROSION CONTROL PLAN**

PROJECT TITLE: **LUMBERTON EQUIPMENT SHOP NCDOT HIGHWAY DIVISION 6**

STATE CONSTRUCTION ID.# **16-12916-01A**

ASSET NUMBER: **78-06-00**

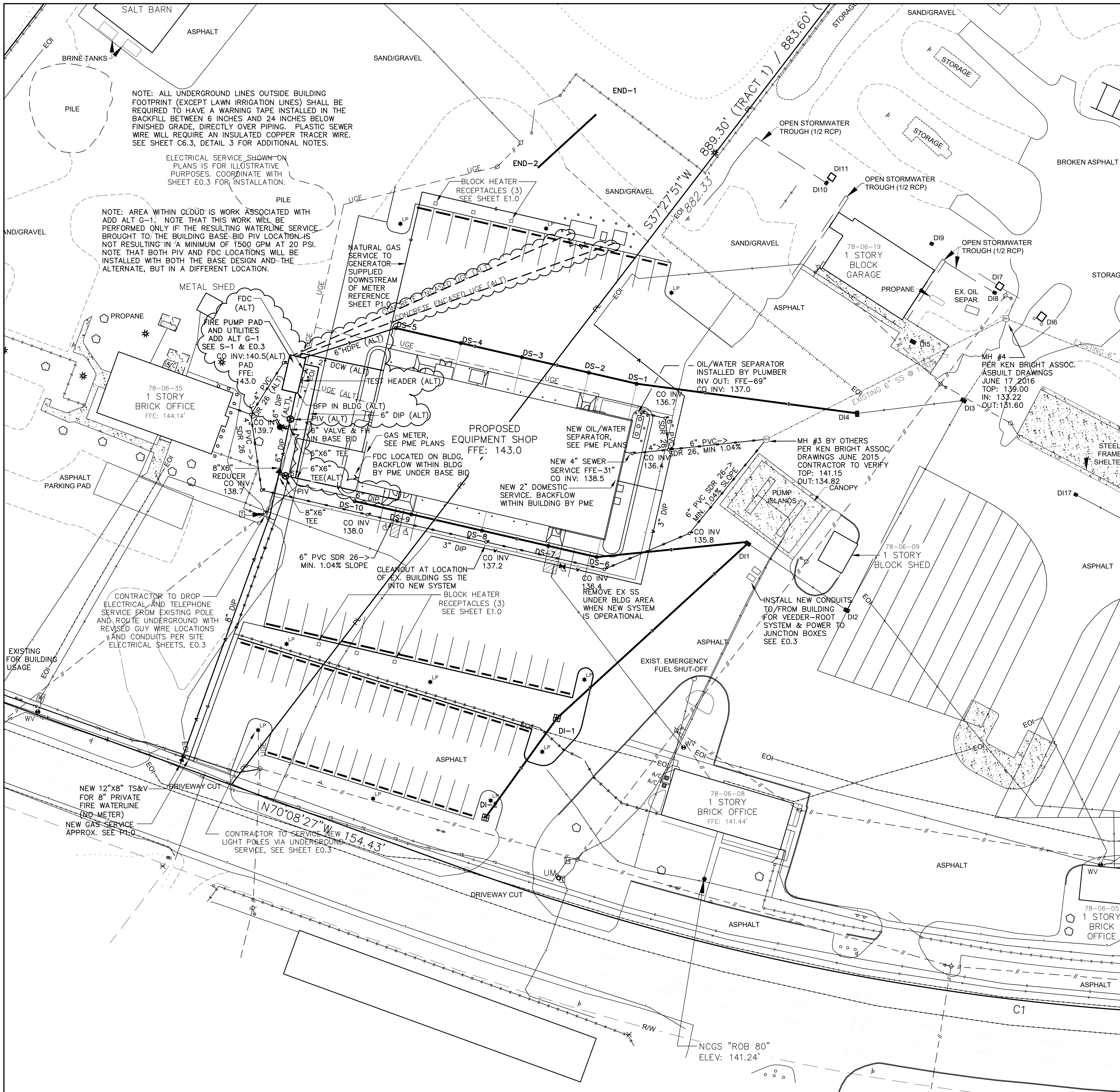
REVISIONS NO. DATE

DATE ISSUED: **1/26/2018**
DRAWN BY: **AF**
CHECKED BY: **RJB**

SHEET NO. **C3.1**

872 NC 711 HIGHWAY
LUMBERTON, NORTH CAROLINA 28350 (ROBESON COUNTY)

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NOTE: ALL UNDERGROUND LINES OUTSIDE BUILDING FOOTPRINT (EXCEPT LAWN IRRIGATION LINES) SHALL BE REQUIRED TO HAVE A WARNING TAPE INSTALLED IN THE BACKFILL BETWEEN 6 INCHES AND 24 INCHES BELOW FINISHED GRADE, DIRECTLY OVER PIPING. PLASTIC SEWER WIRE WILL REQUIRE AN INSULATED COPPER TRACER WIRE. SEE SHEET C6.3, DETAIL 3 FOR ADDITIONAL NOTES.

ELECTRICAL SERVICE SHOWN ON PLANS IS FOR ILLUSTRATIVE PURPOSES. COORDINATE WITH SHEET E0.3 FOR INSTALLATION.

NOTE: AREA WITHIN CLOUD IS WORK ASSOCIATED WITH ADD ALT G-1. NOTE THAT THIS WORK WILL BE PERFORMED ONLY IF THE RESULTING WATERLINE SERVICE BROUGHT TO THE BUILDING BASE-BID PIV LOCATION IS NOT RESULTING IN A MINIMUM OF 1500 GPM AT 20 PSI. NOTE THAT BOTH PIV AND FDC LOCATIONS WILL BE INSTALLED WITH BOTH THE BASE DESIGN AND THE ALTERNATE, BUT IN A DIFFERENT LOCATION.

CONTRACTOR TO DROP ELECTRICAL AND TELEPHONE SERVICE FROM EXISTING POLE AND ROUTE UNDERGROUND WITH REVISED GUY WIRE LOCATIONS AND CONDUITS PER SITE ELECTRICAL SHEETS, E0.3

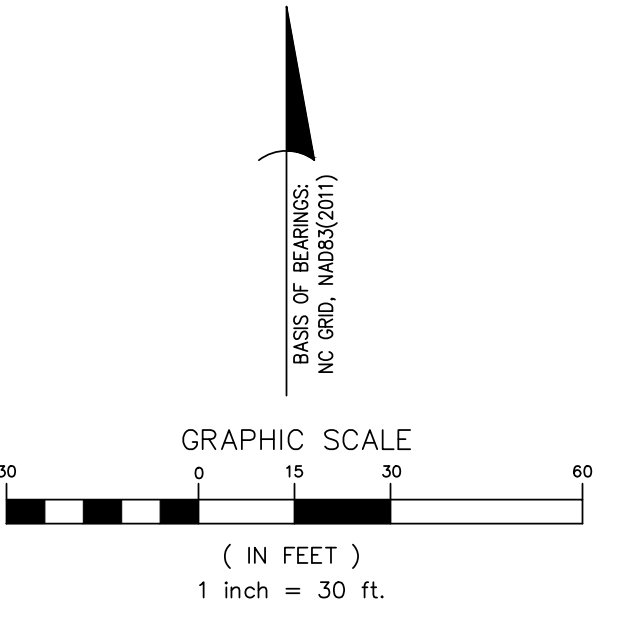
CONTRACTOR TO SERVICE NEW LIGHT POLES VIA UNDERGROUND SERVICE, SEE SHEET E0.3

CLEANOUT AT LOCATION OF EX. BUILDING SS TIE INTO NEW SYSTEM

REMOVE EX SS UNDER BLDG AREA WHEN NEW SYSTEM IS OPERATIONAL

INSTALL NEW CONDUITS TO/FROM BUILDING FOR VEEDER-ROOT / DI2 SYSTEM & POWER TO JUNCTION BOXES SEE E0.3

EXISTING LEGEND	
IRF (SQUARE)	1/2"x1/2" SQUARE ROD FOUND
RBF	#4 REBAR FOUND
○	BUSH/SHRUB
○	BUSH/SHRUB LINE
○	COMPUTED POINT
▨	CONCRETE WALK/PAD/PATH
CMF	CONCRETE MONUMENT FOUND
EOI	END OF S.U.E. INFORMATION
- - -	EXISTING EASEMENT (AS LABELED)
- - -	FENCE
●	GAS TEST STATION
—	GUARD RAIL
⊕	LIGHT POLE
—	PROPERTY LINE
- - -	PROPERTY LINE (NOT SURVEYED)
- - -	RIGHT-OF-WAY (NOT SURVEYED)
⊙	SEWER MANHOLE
⊓	SIGN
⊕	SPOT ELEVATION
—	STORM PIPE
- - -	STORM PIPE (APPROXIMATE DIRECTION)
■	STORM STRUCTURE
⊕	TELEPHONE PEDESTAL
★	TREE (CONIFEROUS)
⊕	TREE (DECIDUOUS)
- - -	TREE LINE
⊕	UNDERGROUND ELECTRIC BOX
⊕	UNDERGROUND FIBER OPTIC BOX
UM	UNDERGROUND UTILITY MARKER
- - -	UTILITY PAINT MARKS - AIR
- - -	UTILITY PAINT MARKS - ELECTRIC
- - -	UTILITY PAINT MARKS - FIBER OPTIC
- - -	UTILITY PAINT MARKS - FUEL
- - -	UTILITY PAINT MARKS - GAS
- - -	UTILITY PAINT MARKS - SEWER
- - -	UTILITY PAINT MARKS - TELEPHONE
- - -	UTILITY PAINT MARKS - UNKNOWN
- - -	UTILITY PAINT MARKS - WATER
⊕	UTILITY POLE
- - -	UTILITY LINE (OVERHEAD)
⊕	WATER METER
WV	WATER VALVE



BIDDING DOCUMENTS

SEAL: NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 027445
 DESIGNER: FACILITIES DESIGN ARCHITECTS & ENGINEERS FACILITIES MANAGEMENT DIVISION, INCOT
 1 SOUTH WILMINGTON STREET, RALEIGH, NORTH CAROLINA 27601
 PHONE: 919/707-4540 FAX: 919/715-0999

CONSULTANT: B&F CONSULTING
 2805 TOBEMORY LANE, RALEIGH, NORTH CAROLINA 27606
 PHONE: 919/883-9102 FAX: 919/883-9102
 NC LICENSE C2-148

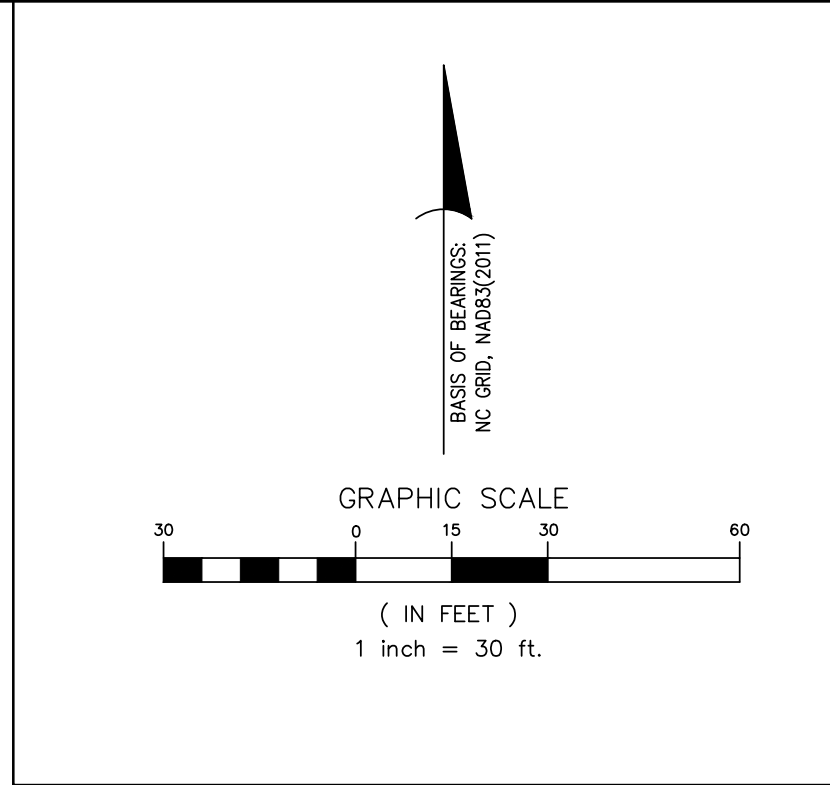
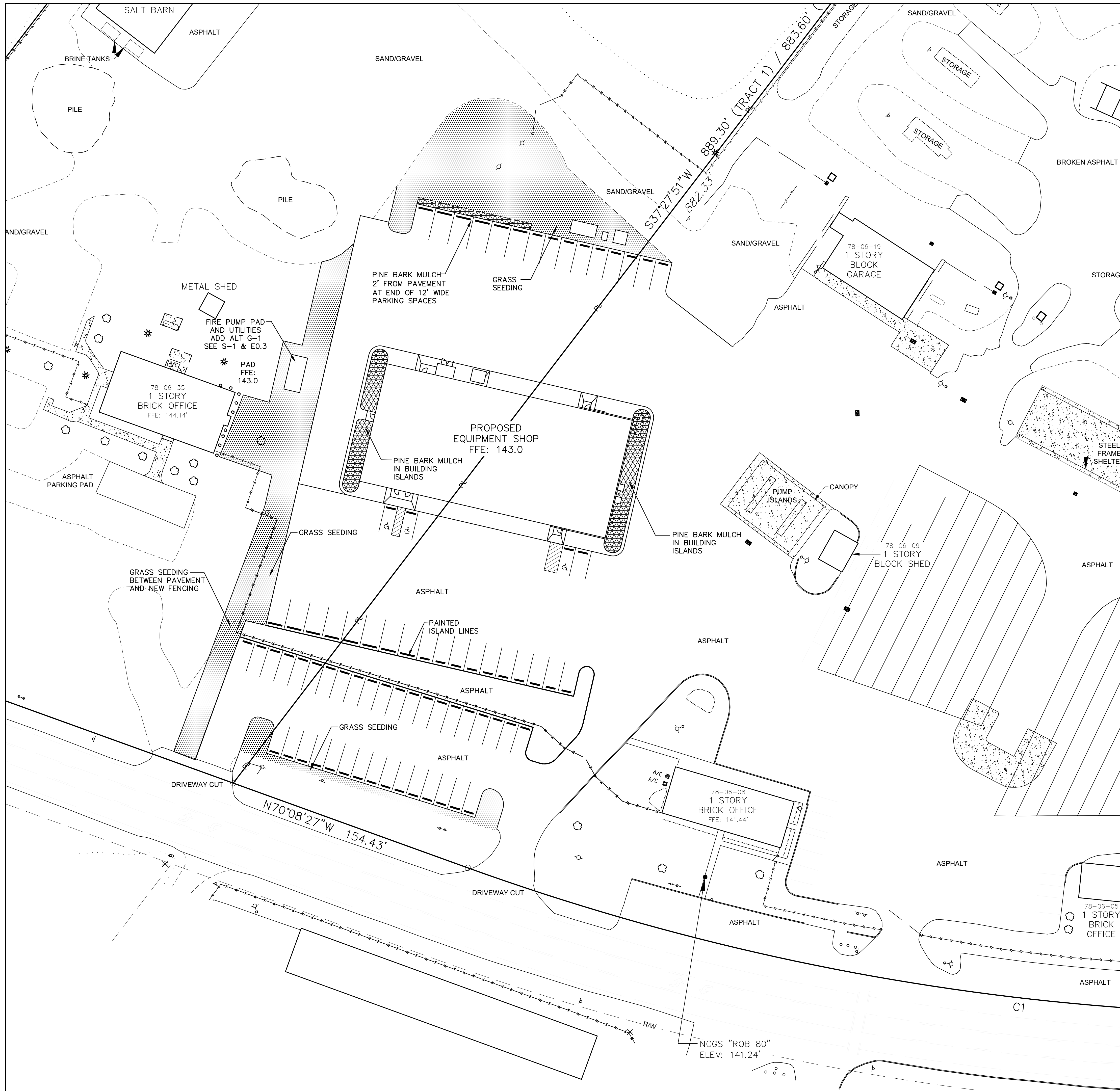
DRAWING TITLE / DESCRIPTION: PROPOSED UTILITIES PLAN

PROJECT TITLE: LUMBERTON EQUIPMENT SHOP NCDOT HIGHWAY DIVISION 6
 872 NC 711 HIGHWAY, LUMBERTON, NORTH CAROLINA 28360 (ROBESON COUNTY)

STATE CONSTRUCTION ID.# 16-12916-01A
 ASSET NUMBER: 78-06-00
 REVISIONS: NO. DATE

DATE ISSUED: 1/26/2018
 DRAWN BY: AF
 CHECKED BY: RJB
 SHEET NO. C4.1

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EXISTING LEGEND	
IRF (SQUARE)	1/2"x1/2" SQUARE ROD FOUND
RBF	#4 REBAR FOUND
○	BUSH/SHRUB
○	BUSH/SHRUB LINE
○	COMPUTED POINT
▨	CONCRETE WALK/PAD/PATH
CMF	CONCRETE MONUMENT FOUND
EOI	END OF S.U.E. INFORMATION
---	EXISTING EASEMENT (AS LABELED)
---	FENCE
⊙	GAS TEST STATION
---	GUARD RAIL
⊕	LIGHT POLE
---	PROPERTY LINE
---	PROPERTY LINE (NOT SURVEYED)
---	RIGHT-OF-WAY (NOT SURVEYED)
⊙	SEWER MANHOLE
⊕	SIGN
⊕	SPOT ELEVATION
---	STORM PIPE
---	STORM PIPE (APPROXIMATE DIRECTION)
■	STORM STRUCTURE
⊕	TELEPHONE PEDESTAL
⊕	TREE (CONIFEROUS)
⊕	TREE (DECIDUOUS)
---	TREE LINE
⊕	UNDERGROUND ELECTRIC BOX
⊕	UNDERGROUND FIBER OPTIC BOX
UM	UNDERGROUND UTILITY MARKER
---	UTILITY PAINT MARKS - AIR
---	UTILITY PAINT MARKS - ELECTRIC
---	UTILITY PAINT MARKS - FIBER OPTIC
---	UTILITY PAINT MARKS - FUEL
---	UTILITY PAINT MARKS - GAS
---	UTILITY PAINT MARKS - SEWER
---	UTILITY PAINT MARKS - TELEPHONE
---	UTILITY PAINT MARKS - UNKNOWN
---	UTILITY PAINT MARKS - WATER
⊕	UTILITY POLE
---	UTILITY LINE (OVERHEAD)
⊕	WATER METER
wv	WATER VALVE

BIDDING DOCUMENTS

SEAL:

DESIGNED BY: **FACILITIES DESIGN ARCHITECTS & ENGINEERS**
FACILITIES MANAGEMENT DIVISION, NCDOT
1 SOUTH WILMINGTON STREET
RALEIGH, NORTH CAROLINA 27601
PHONE: 919/707-4540 FAX: 919/715-0399

CONSULTANT: **B&F CONSULTING**
2805 TOBERMORY LANE
RALEIGH, NORTH CAROLINA 27606
PHONE: 919/883-9102
FAX: 919/883-9102
NC LICENSE C2-148

DRAWING TITLE / DESCRIPTION: **PROPOSED GROUNDCOVER PLAN**

PROJECT TITLE: **LUMBERTON EQUIPMENT SHOP**
LUMBERTON HIGHWAY DIVISION 6
872 NC 711 HIGHWAY
LUMBERTON, NORTH CAROLINA 28360 (ROBESON COUNTY)

STATE CONSTRUCTION ID.# 16-12916-01A

ASSET NUMBER: 78-06-00

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DATE ISSUED: 1/26/2018
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SHEET NO. **C5.1**

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ACCESSIBLE PARKING REQUIREMENTS

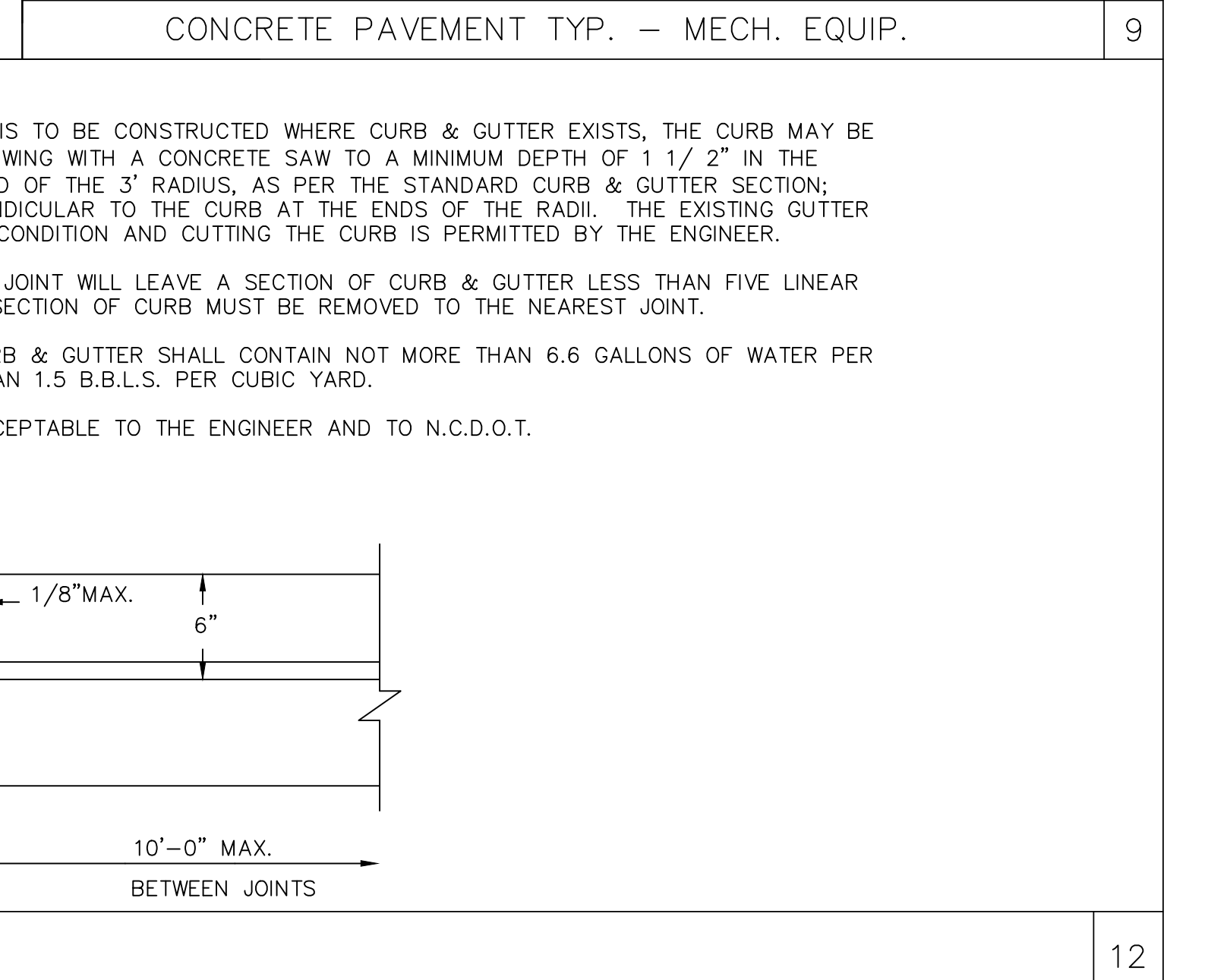
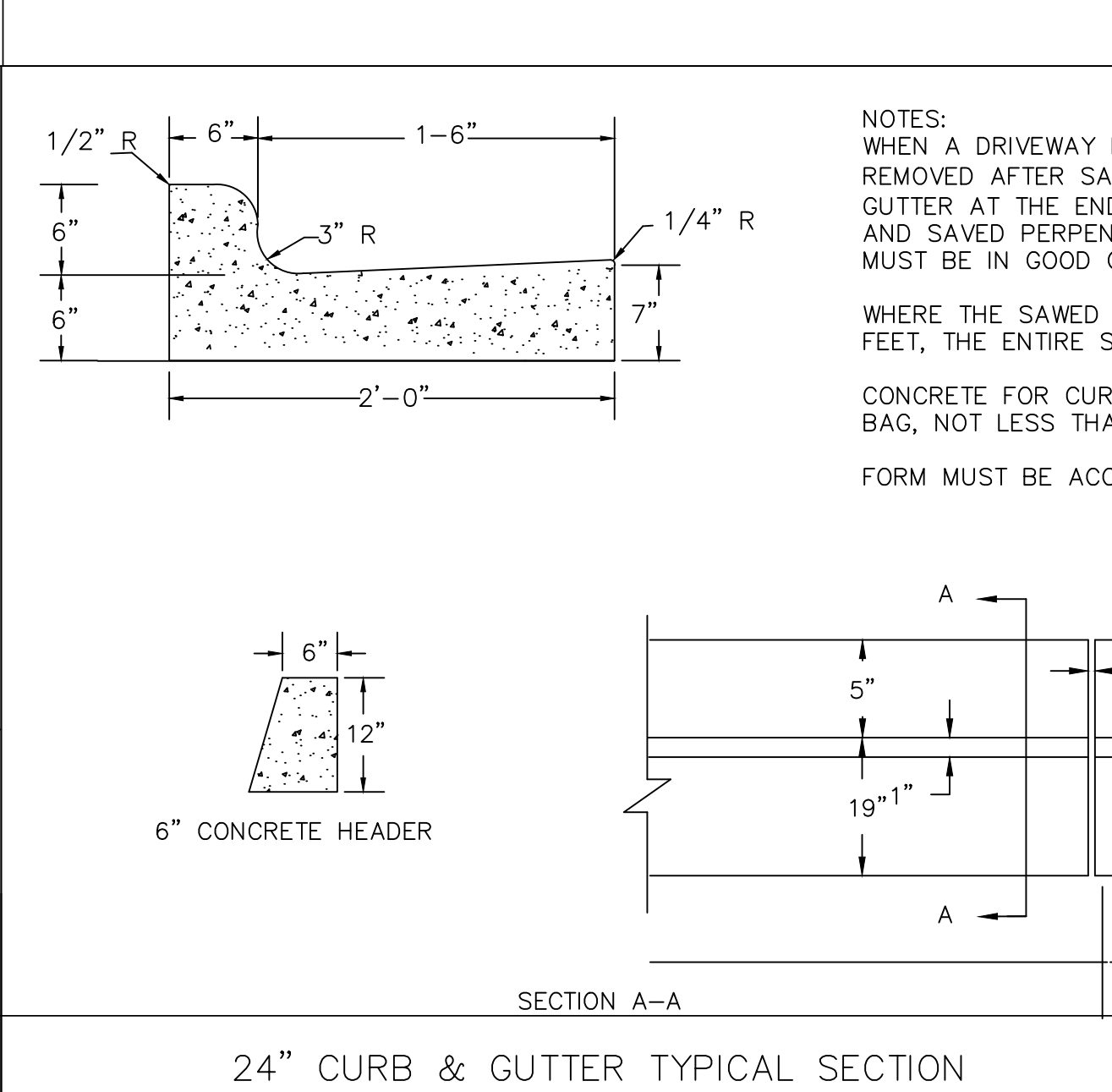
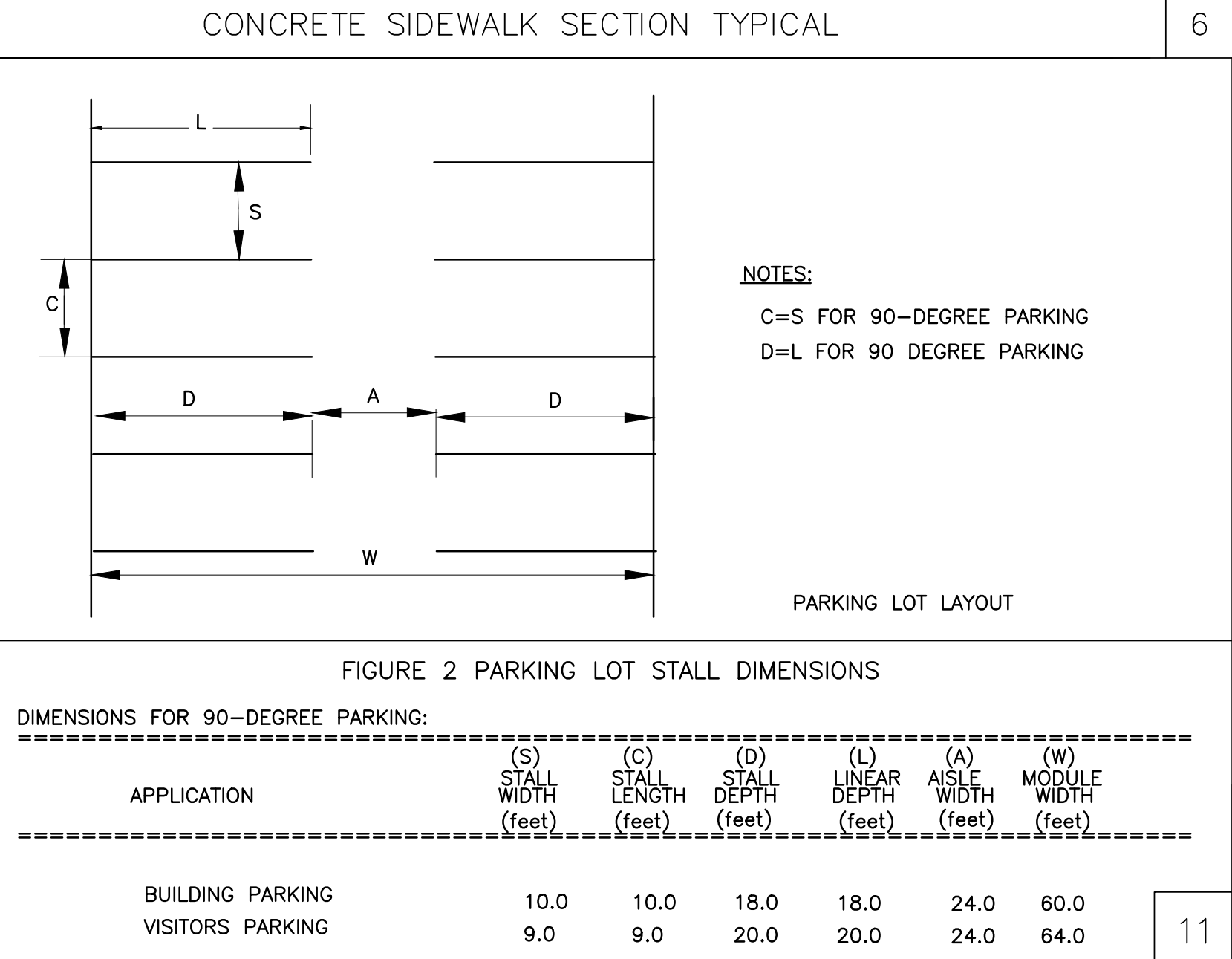
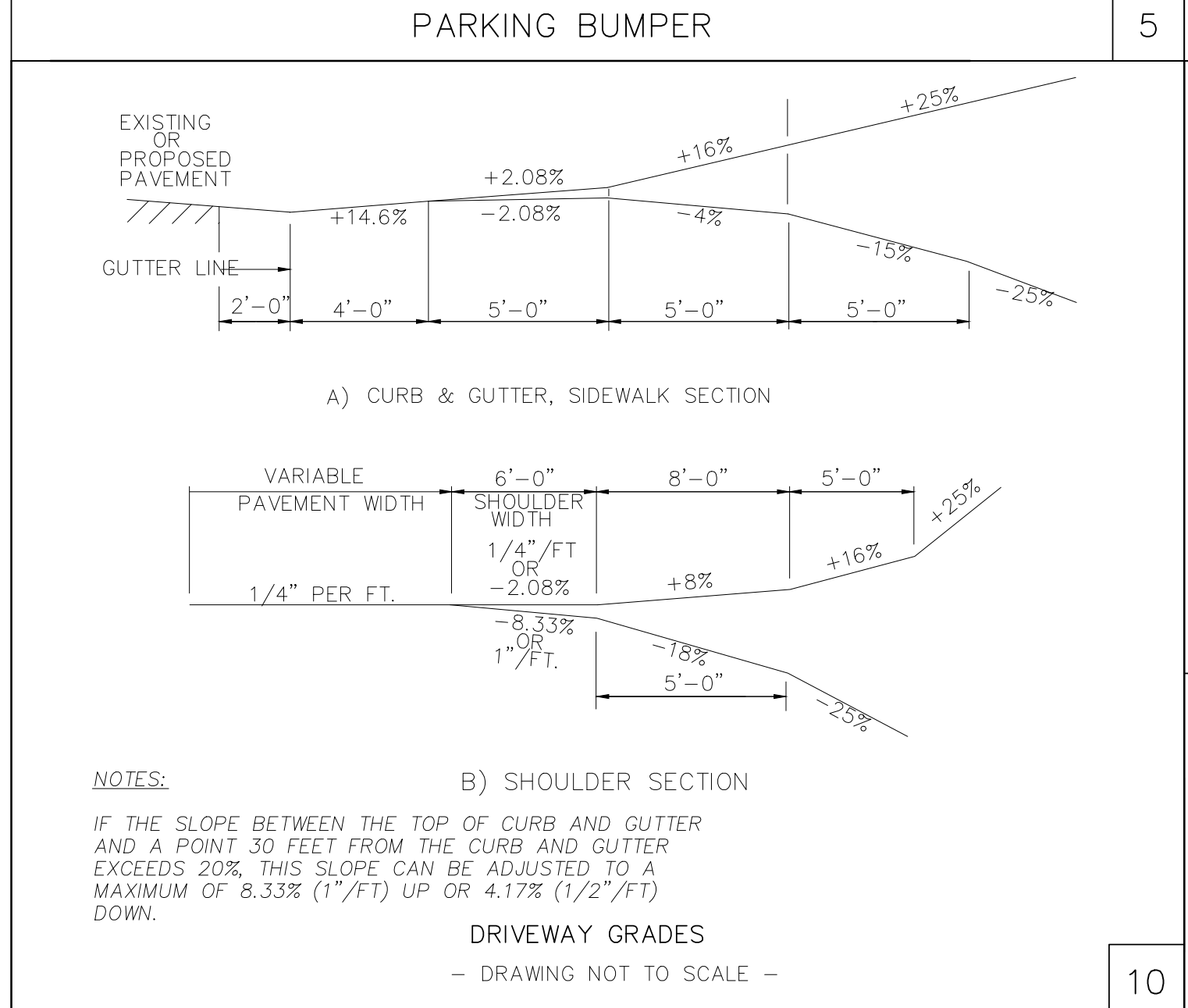
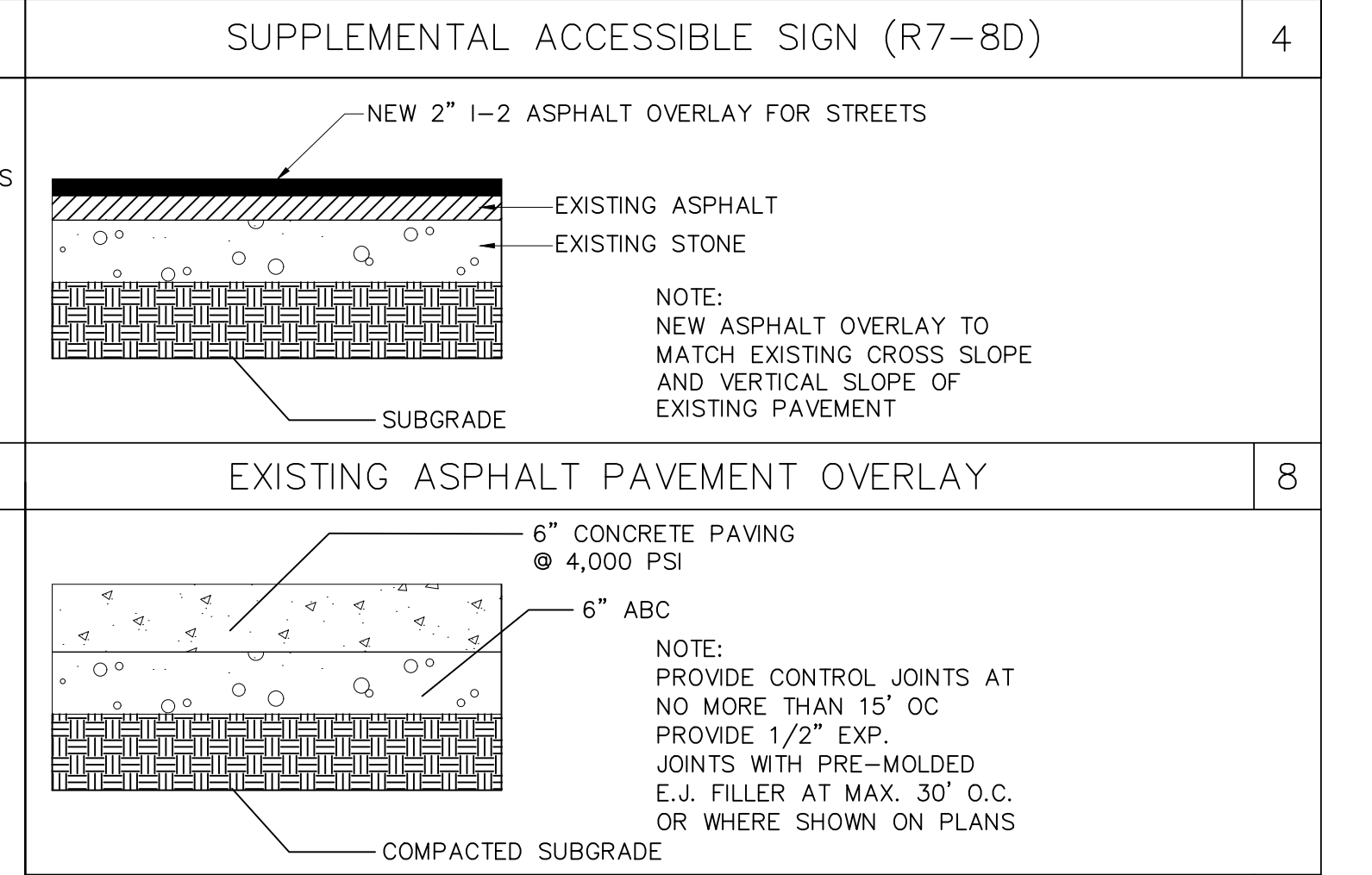
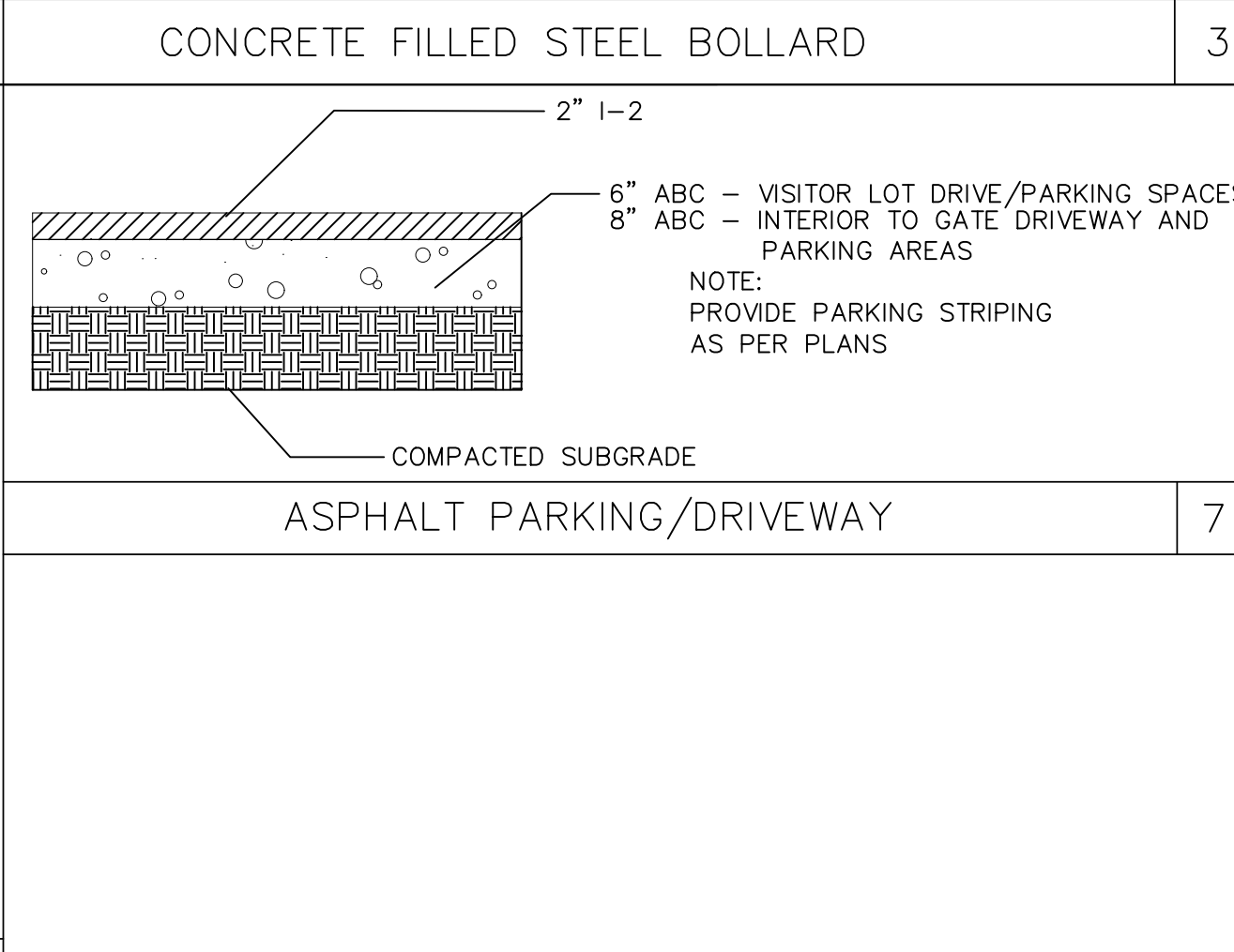
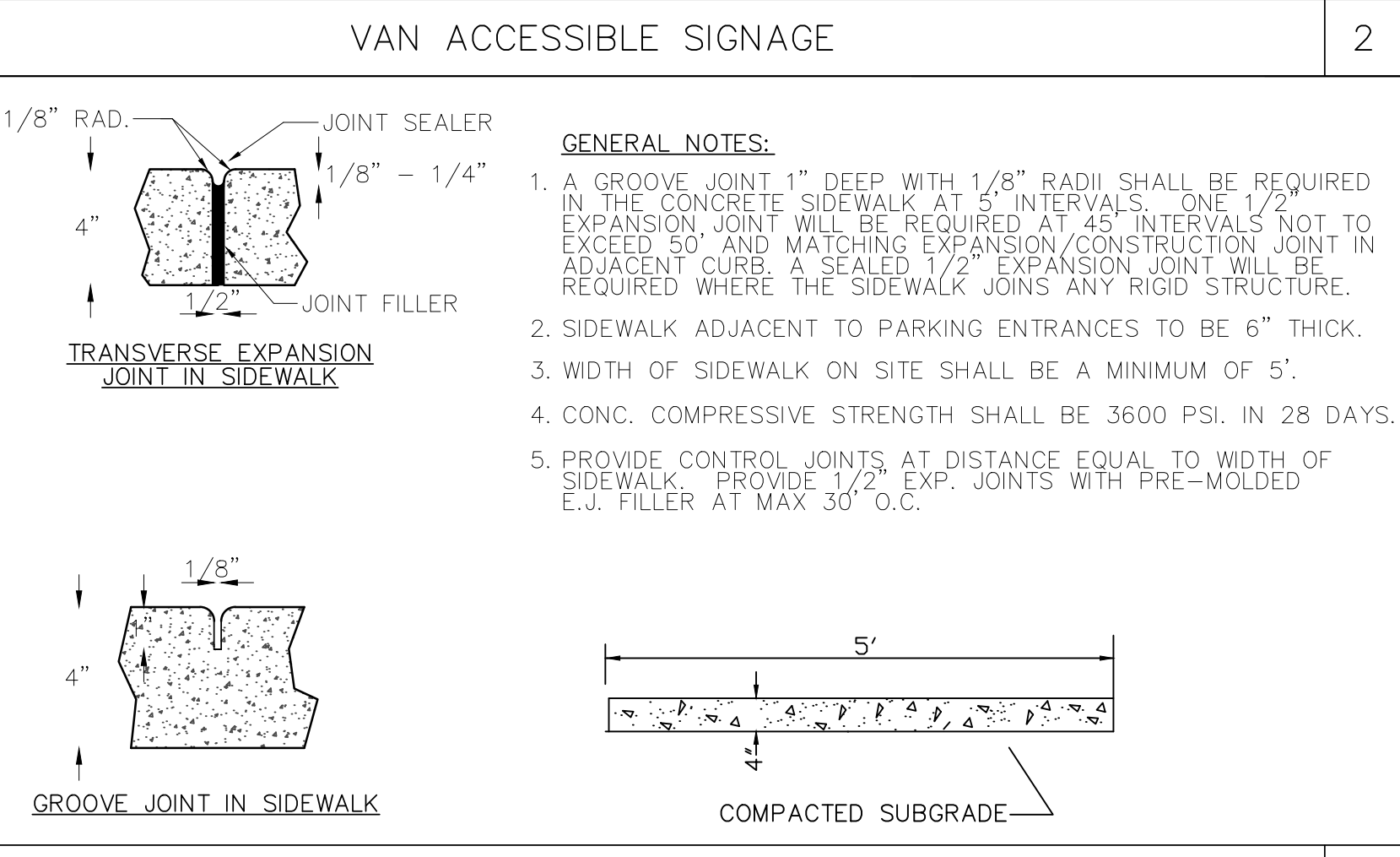
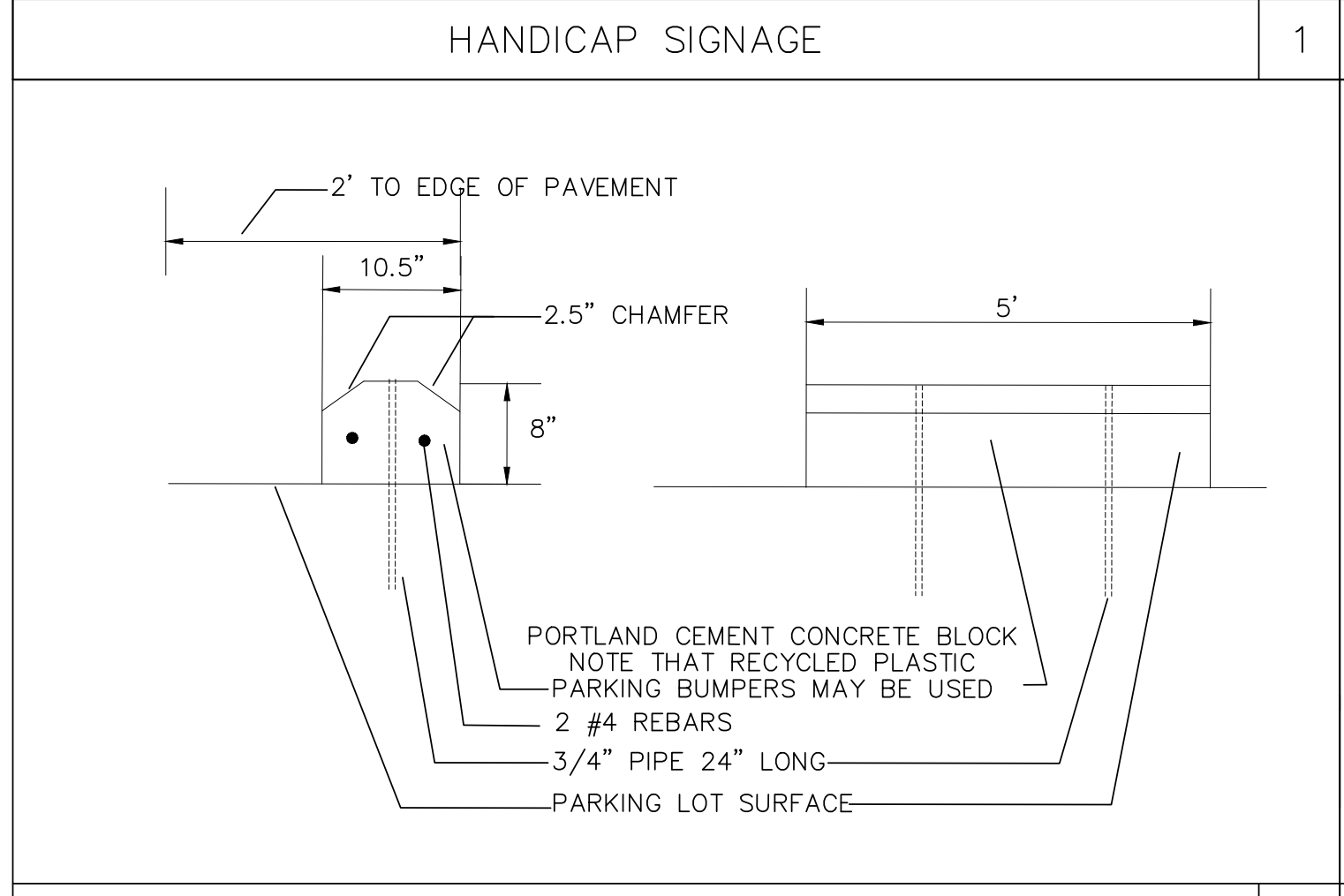
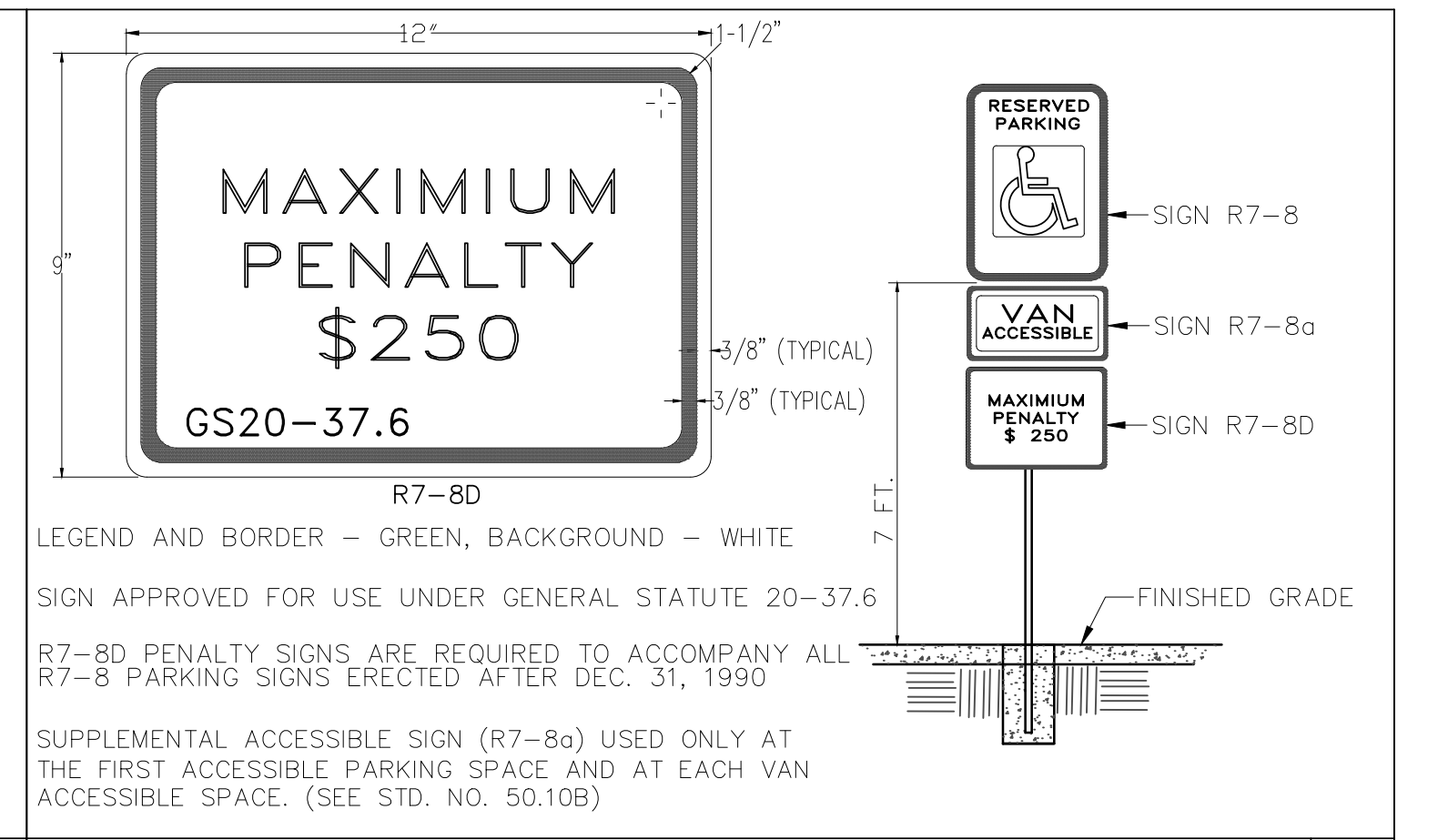
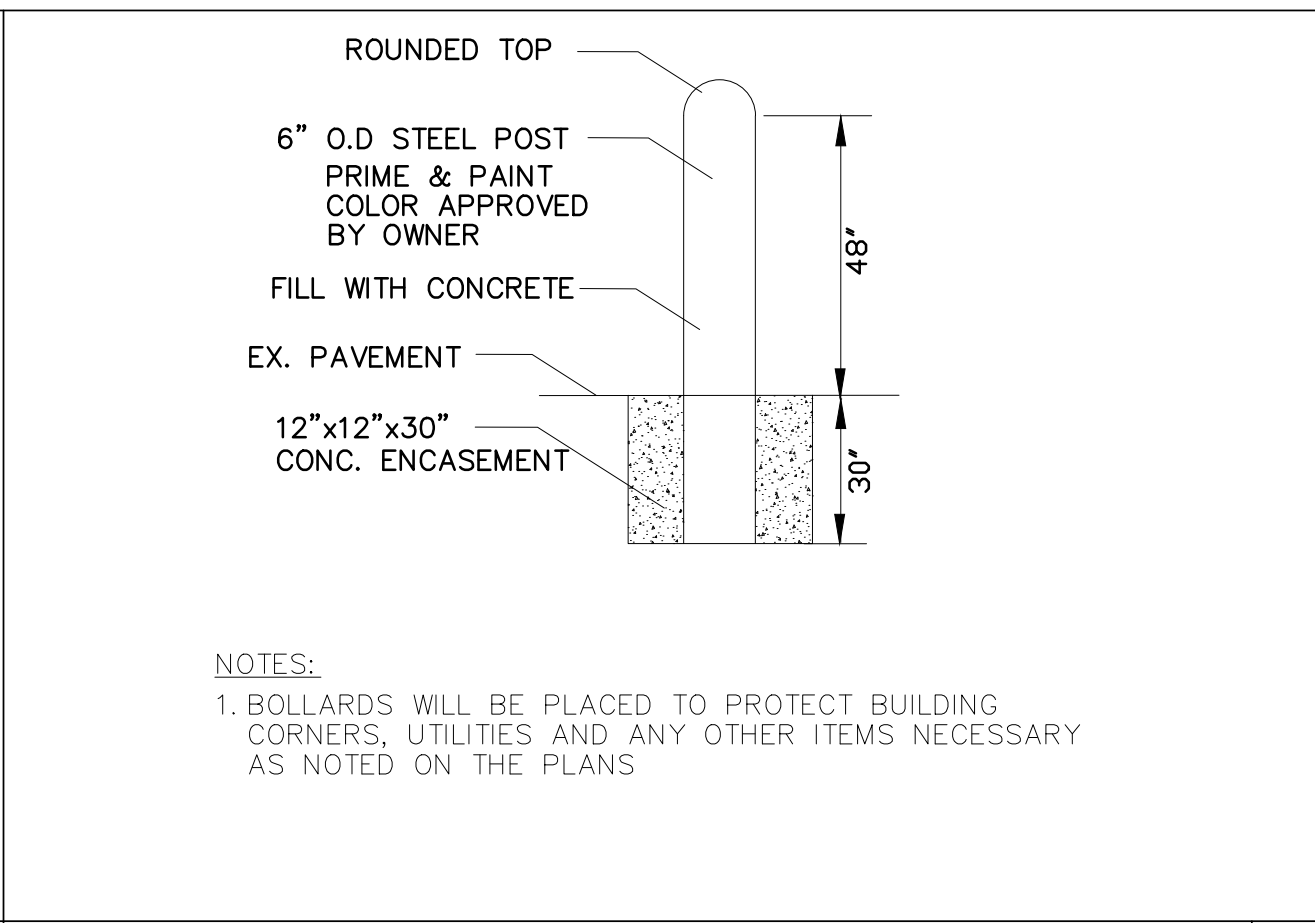
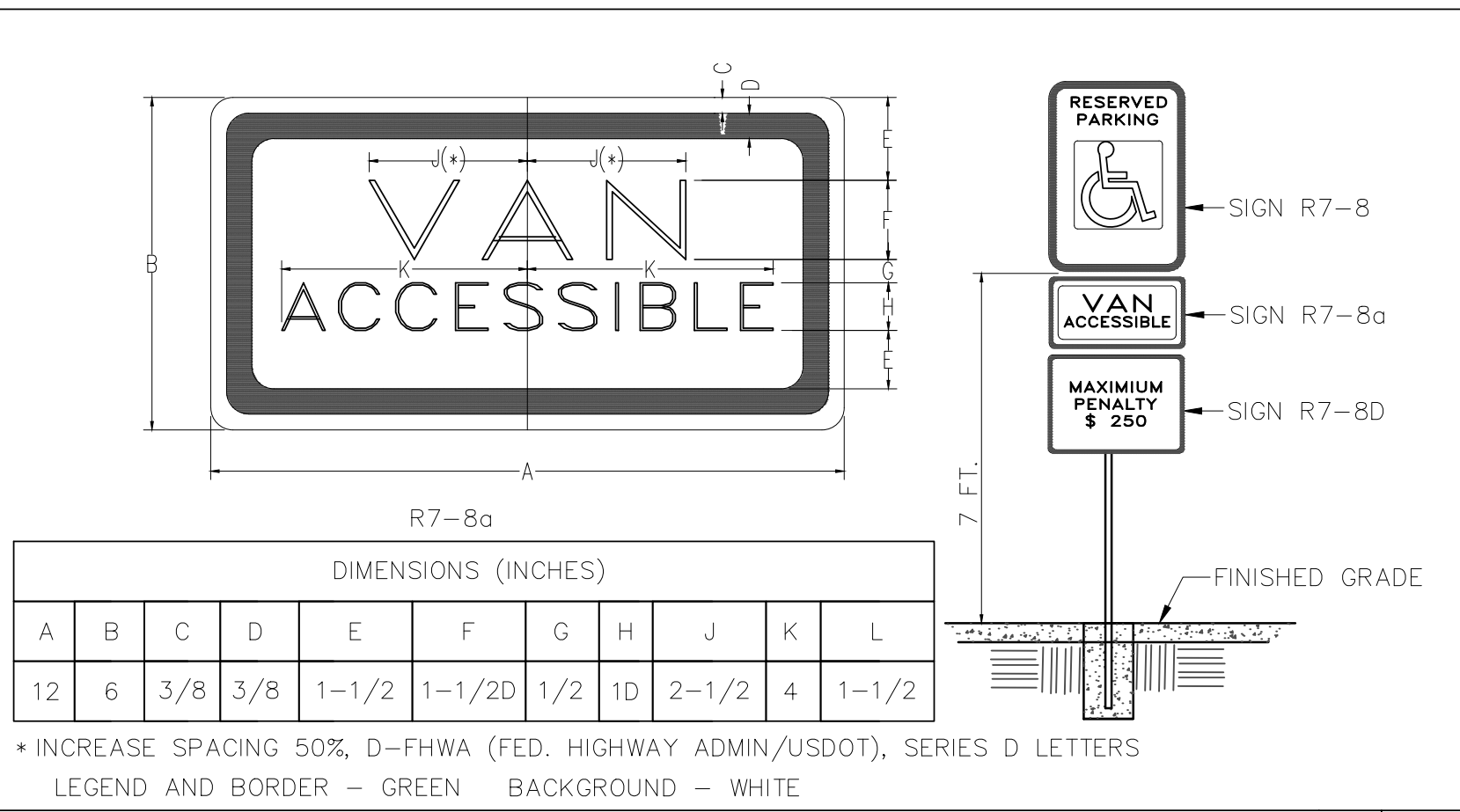
TOTAL PARKING SPACES PROVIDED	MIN. # OF ACCESSIBLE SPACES REQ'D	MIN. # OF ACCESSIBLE SPACES REQ'D TO BE VAN ACCESSIBLE
1 TO 25	1	1
26 TO 50	2	1
51 TO 75	3	1
76 TO 100	4	1
101 TO 150	5	1

SECTION 4.1.2 (5) OF THE AMERICANS WITH DISABILITIES ACT - SEE 4.1.2.(5) (d) FOR MEDICAL CARE FACILITIES

NOTES:

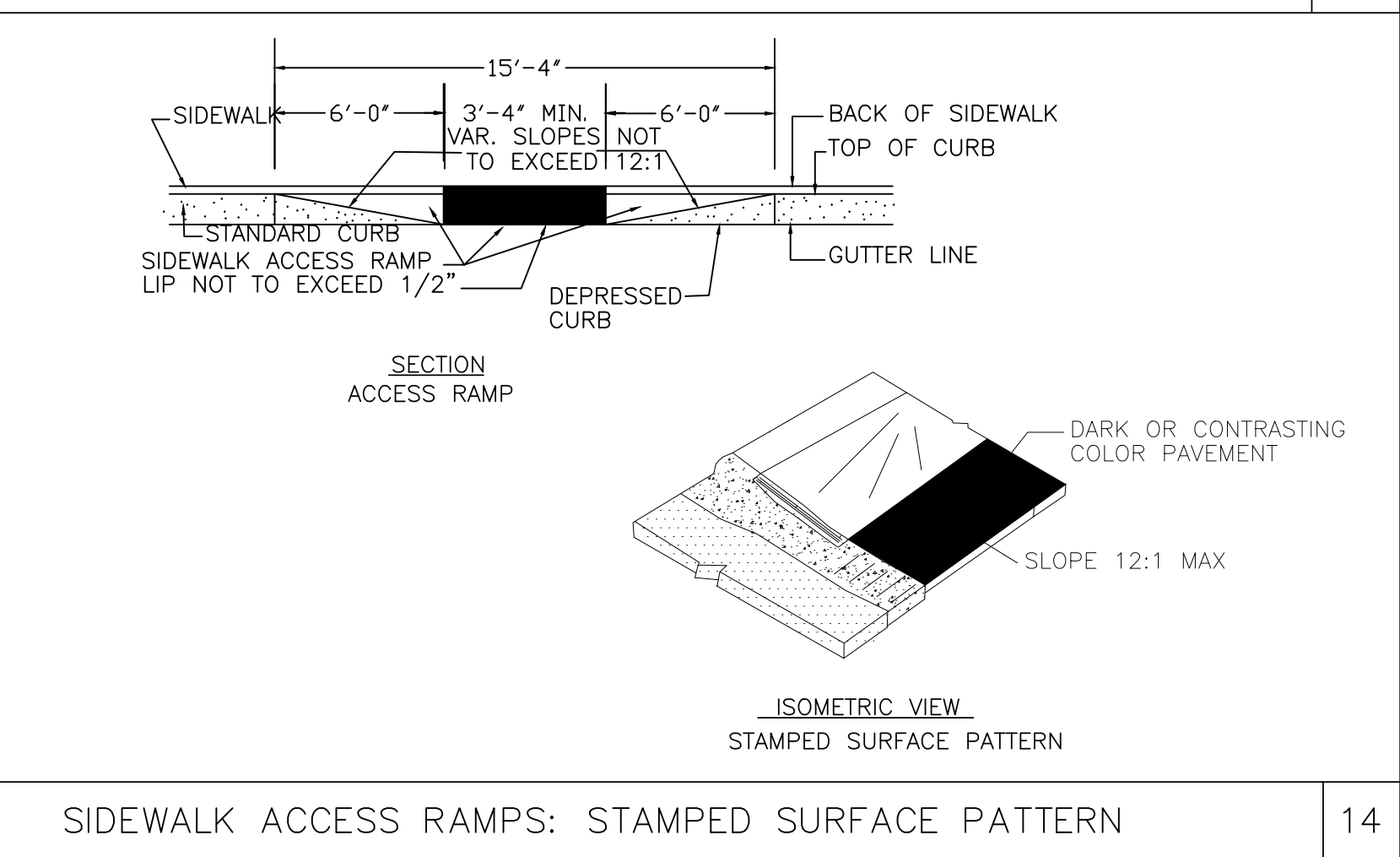
- ALL 12"x18" ACCESSIBLE SIGNS (R7-8&R7-1) SHALL BE MOUNTED AT 7 FEET FROM GRADE TO BOTTOM EDGE OF SIGN FACE (MUTCD).
- REFER TO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, (MUTCD), U.S. DEPARTMENT OF TRANSPORTATION AND NORTH CAROLINA DEPARTMENT OF TRANSPORTATION SUPPLEMENT.
- IF ACCESSIBLE ROUTE IS A RAISED SIDEWALK AREA, THEN RAMPS ARE REQUIRED AT LOADING ZONE AREA.

SEE STANDARD NO. 50.10B & 50.10C FOR SUPPLEMENTAL SIGN DETAIL



GENERAL NOTES - LOCATION OF WHEELCHAIR RAMP

- SIDEWALK ACCESS RAMPS SHALL BE PROVIDED AT LOCATIONS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. WHEELCHAIR RAMPS SHALL BE LOCATED AS INDICATED IN THESE DETAILS; HOWEVER, THE LOCATION MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER WHERE EXISTING LIGHT POLES, FIRE HYDRANTS, DROP INLETS, ETC. AFFECT PLACEMENT. AT ALL LOCATIONS, NOT LESS THAN 2 FEET OF FULL HEIGHT CURB SHALL BE PLACED BETWEEN DOUBLE RAMPS.
- THE WALKING SURFACE SHALL BE SLIP RESISTANT. COLORS FOR THE RAMPS SHALL BE DARK CHARCOAL GRAY FOR CONTRAST WITH LIGHT PATHWAY COLORS AND LIGHT CONCRETE GRAY FOR CONTRAST WITH DARK PATHWAY COLORS AND SHALL BE AN INTEGRAL PART OF THE CONSTRUCTION MATERIAL.
- NO SLOPE ON THE SIDEWALK ACCESS RAMP SHALL EXCEED 1"/1' (12:1) IN RELATIONSHIP TO THE GRADE OF THE STREET.
- IN NO CASE SHALL THE WIDTH OF THE SIDEWALK ACCESS RAMP BE LESS THAN 40" (3'-4") HOWEVER, RAMP WIDTH MAY EXCEED 40".
- USE CLASS B CONCRETE WITH A SIDEWALK FINISH IN ORDER TO OBTAIN A ROUGH NONSKID NONSKID TYPE SURFACE.
- A 1/2" EXPANSION JOINT WILL BE REQUIRED WHERE THE CONCRETE SIDEWALK ACCESS RAMP JOINS THE CURB AND AS SHOWN ON THE STANDARD DRAWING.



DETAIL NOTES

- LAND DISTURBING AND EROSION CONTROL DETAILS SHALL ADHERE TO ALL APPLICABLE STATE CONSTRUCTION STANDARDS.
- WATER SERVICES ON SITE ARE MANAGED BY NCDOT. WATER METERS AND MAINS ARE MANAGED BY THE CITY OF LUMBERTON, NORTH CAROLINA AND ARE TO ADHERE TO THEIR STANDARDS AND APPROVALS.
- SEWER SERVICE IS MANAGED BY NCDOT ONSITE AND IS TO ADHERE TO THE STANDARDS AND APPROVALS AS SET BY ROBESON COUNTY SEWER DEPARTMENT.
- ALL ROADWAY AND SITE WORK IS OWNED AND MAINTAINED BY NCDOT. ALL CONSTRUCTION FOR PUBLIC ACCESSES ARE TO ADHERE TO NCDOT STANDARDS AND SPECIFICATIONS.

BIDDING DOCUMENTS

STATE OF NORTH CAROLINA
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 027445
DESIGNED BY: FACILITIES DESIGN ARCHITECTS & ENGINEERS ARCHITECTS & ENGINEERS FACILITIES MANAGEMENT DIVISION NCDOT
1 SOUTH HILL LANE, SUITE 200 RALEIGH, NORTH CAROLINA 27601 PHONE: 919/707-4540 FAX: 919/715-0599

CONSULTANT: B&F CONSULTING 2805 FOREBORY LANE RALEIGH, NORTH CAROLINA 27606 PHONE: 919/883-9102 FAX: 919/883-9102 NC LICENSE C2-148

DRAWING TITLE / DESCRIPTION: SITE DETAILS

PROJECT TITLE: LUMBERTON EQUIPMENT SHOP NCDOT HIGHWAY DIVISION 6
872 NC 711 HIGHWAY LUMBERTON, NORTH CAROLINA 28360 (ROBESON COUNTY)

STATE CONSTRUCTION ID.# 16-12916-01A

ASSET NUMBER: 78-06-00

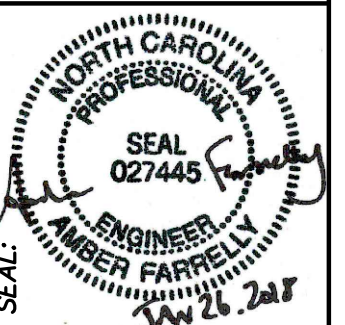
REVISIONS

NO.	DATE

DATE ISSUED: 1/26/2018
DRAWN BY: AF
CHECKED BY: RJB
SHEET NO.

C6.1

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DESIGNED BY:
FACILITIES DESIGN
ARCHITECTS & ENGINEERS
FACILITIES MANAGEMENT DIVISION NCDOT



CONSULTANT:
B&F CONSULTING
2808 TOBERRY LANE
RALEIGH, NORTH CAROLINA 27606
PHONE: 919-883-9102
FAX: 919-883-9102
NC LICENSE C2-148

PROJECT TITLE / DESCRIPTION:
EROSION CONTROL DETAILS

PROJECT TITLE:
LUMBERTON EQUIPMENT SHOP
NCDOT HIGHWAY DIVISION 6

STATE CONSTRUCTION ID.# 16-12916-01A

ASSET NUMBER:
78-06-00

REVISIONS
NO. DATE

DATE ISSUED: 1/26/2018

DRAWN BY: AF

CHECKED BY: RJB

SHEET NO.

C6.2

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR
TEMPORARY SILT FENCE

1 SHEET 1 OF 1
1605.01

NOTE: ALL PARTIALLY COMPLETED STORM DRAINS SHALL BE OF EACH DAY IN ACCORDANCE WITH THE DETAILS.

ENGLISH STANDARD DRAWING FOR
PIPE INLET PROTECTION (STONE)

2 SHEET 1 OF 1
1607.01

ENGLISH STANDARD DRAWING FOR
GRAVEL CONSTRUCTION ENTRANCE

3 SHEET 1 OF 1
1607.01

NOTES:
1. PROVIDE TURNING RADIUS SUFFICIENT TO ACCOMMODATE LARGE TRUCKS.
2. LOCATE ENTRANCES TO PROVIDE FOR UTILIZATION BY ALL CONSTRUCTION VEHICLES.
3. MUST BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR DIRECT FLOW OF MUD ONTO STREETS. PERIODIC TOPDRESSING WITH STONE WILL BE NECESSARY.
4. ANY MATERIAL TRACKED ONTO THE ROADWAY MUST BE CLEANED UP IMMEDIATELY.
5. LOCATE GRAVEL CONSTRUCTION ENTRANCE AT ALL POINTS OF INGRESS AND EGRESS UNTIL SITE IS STABILIZED. PROVIDE FREQUENT CHECKS OF THE DEVICE AND TIMELY MAINTENANCE.
6. NUMBER AND LOCATION OF CONSTRUCTION ENTRANCES TO BE DETERMINED BY THE ENGINEER.
7. USE CLASS 'A' STONE OR OTHER COARSE AGGREGATE APPROVED BY THE ENGINEER.
8. INSTALL CONSTRUCTION ENTRANCES IN A WAY TO PREVENT VEHICLES FROM BYPASSING CONSTRUCTION ENTRANCE LEAVING PROJECT SITE.

NOTE: PLACE FILTRATION GEOTEXTILE BENEATH STONE

ENGLISH STANDARD DRAWING FOR
SPECIAL SEDIMENT CONTROL FENCE

4 SHEET 1 OF 1
1606.01

NOTES:
USE NO. 5 OR NO. 57 STONE FOR SEDIMENT CONTROL STONE.
USE HARDWARE CLOTH 24 GAUGE WIRE MESH WITH 1/4 INCH MESH OPENINGS.
INSTALL 5 FT. SELF FASTENER ANGLE STEEL POST 2 FT. DEEP MINIMUM.
SPACE POST A MAXIMUM OF 3 FT.
FOR INSTALLATION BETWEEN SECTIONS OF SILT FENCE, EXTEND SEDIMENT CONTROL STONE A MINIMUM OF 12" IN WIDTH ON EACH SIDE OF SPECIAL SEDIMENT CONTROL FENCE SECTION.

NOTES:
1. CLASS OR MEDIAN SIZE OF RIPRAP AND LENGTH, WIDTH AND DEPTH OF APRON TO BE DESIGNED BY THE ENGINEER.
2. RIPRAP SHOULD EXTEND UP BOTH SIDES OF THE APRON AND AROUND THE END OF THE PIPE OR CULVERT AT THE DISCHARGE OUTLET AT A MAXIMUM SLOPE OF 1:1 AND A HEIGHT NOT LESS THAN TWO THIRDS THE PIPE DIAMETER OR CULVERT HEIGHT.
3. THERE SHALL BE NO OVERFLOW FROM THE END OF THE APRON TO THE SURFACE OF THE RECEIVING CHANNEL. THE APRON UNDERCUT SHALL BE AT THE PLAN SAME GRADE (FLUSH WITH THE SURFACE OF THE RECEIVING CHANNEL). THE APRON SHALL HAVE A CUTOFF OR TOE WALL AT THE DOWNSTREAM END.
4. THE WIDTH OF THE END OF THE APRON SHALL BE EQUAL TO THE BOTTOM WIDTH OF THE RECEIVING CHANNEL.
5. ALL SUBGRADE FOR STRUCTURE TO BE COMPACTED TO 95% OR GREATER.
6. THE PLACING OF FILL, EITHER LOOSE OR COMPACTED IN THE RECEIVING CHANNEL SHALL NOT BE ALLOWED.
7. NO BENDS OR CURVES IN THE HORIZONTAL ALIGNMENT OF THE APRON WILL BE PERMITTED.

ENGLISH STANDARD DRAWING FOR
RIPRAP APRON AT PIPE OUTLETS

5 SHEET 1 OF 1
1605.01

NOTES:
1. PLACE CONTINUOUS RUN OF FENCE MATERIAL AS SHOWN ON PLANS.
2. ATTACH AT 10' MAXIMUM INTERVALS TO 2X4 POSTS, OR "T" POSTS, OR EXISTING NON SPECIMEN TREES WITH DIAMETER LESS THAN 4". DO NOT STAPLE TO TREES.
3. FENCE MATERIAL SHALL BE TENSAR-TYPE HIGH STRENGTH POLYMER GEOGRID FABRIC OR EQUAL BRIGHT ORANGE COLOR.
4. PLACE A 2' X 2' SIGN THAT READS "TREE PROTECTION ZONE, KEEP OUT" AT LEAST EVERY 300 FEET ALONG FENCE.

ENGLISH STANDARD DRAWING FOR
TREE PROTECTION FENCE

6 SHEET 1 OF 1
1605.01

SEEDBED PREPARATION
1. CHISEL COMPACTED AREAS AND SPREAD TOPSOIL 3 INCHES DEEP OVER ADVERSE SOIL CONDITIONS, IF AVAILABLE.
2. RIP THE ENTIRE AREA TO 6 INCHES DEEP.
3. REMOVE ALL LOOSE ROCK, ROOTS, AND OTHER OBSTRUCTIONS LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM.
4. APPLY AGRICULTURAL LIME, FERTILIZER, AND SUPERPHOSPHATE UNIFORMLY AND MIX WITH SOIL AS NOTED BELOW.
5. FERTILIZER TOPDRESSING: FERTILIZER USED FOR TOPDRESSING ON ALL ROADWAY AREAS EXCEPT SLOPES 2:1 AND STEEPER SHALL BE 10-20-20 GRADE AND SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE. A DIFFERENT ANALYSIS OF FERTILIZER MAY BE USED PROVIDED THE 1-2-2 RATIO IS MAINTAINED AND THE RATE OF APPLICATION ADJUSTED TO PROVIDE THE SAME AMOUNT OF PLANT FOOD AT 10-20-20 ANALYSIS AND AS DIRECTED. FERTILIZER USED FOR TOPDRESSING ON SLOPES 2:1 AND STEEPER AND WASTE AND BORROW AREAS SHALL BE 16-8-8 GRADE AND SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE. A DIFFERENT ANALYSIS OF FERTILIZER MAY BE USED PROVIDED THE 2-1-1 RATIO IS MAINTAINED AND THE RATE OF APPLICATION ADJUSTED TO PROVIDE THE SAME AMOUNT OF PLANT FOOD AS 16-8-8 ANALYSIS AND AS DIRECTED.
6. CONTINUE TILLAGE UNTIL A WELL-PULVERIZED, FIRM AND REASONABLE UNIFORM SEEDBED IS PREPARED 4"-6" DEEP.
7. SEED ON A FRESHLY PREPARED SEEDBED AND COVER SEED LIGHTLY WITH SEEDING EQUIPMENT OR CULTIPACK AFTER SEEDING. REFERENCE SPECIFICATIONS FOR NCDOT REQUIRED SEEDING AND MULCHING REQUIREMENTS.
8. MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH.
9. INSPECT ALL SEEDING AREAS AND MAKE NECESSARY REPAIRS OR RESEEDINGS WITHIN THE PLANTING SEASON, IF POSSIBLE. IF STAND SHOULD BE OVER 60% DAMAGED, REESTABLISH FOLLOWING ORIGINAL LIME, FERTILIZER AND SEEDING RATES.
10. CONSULT CONVERSATION INSPECTOR ON MAINTENANCE TREATMENT AND FERTILIZATION AFTER PERMANENT COVER IS ESTABLISHED.

NOTES:
1. FOR TALL FESCUE VARIETIES, CONSULT GENERAL SERVICES SPECIAL PROVISION FOR EROSION CONTROL PROVIDED IN SPECIFICATIONS.
2. DO NOT ALLOW TEMPORARY COVER TO BE GROVED OVER 12" IN HEIGHT BEFORE MOWING, OR FESCUE MAY BE SHADDED OUT.

SEEDING INFORMATION

TEMPORARY SEEDING PURPOSE:
1. TO STABILIZE DISTURBED AREAS BEFORE FINAL GRADING OR IN A REASON NOT SUITABLE FOR PERMANENT SEEDING MINIMUM REQUIREMENTS:
1. SEEDBED PREPARATION: LIME AND FERTILIZER INCORPORATED 4"-6", WHERE CONDITIONS ALLOW. STEEP SLOPES ARE TO BE ROUGHENED BY TRACKING, CONSULT GENERAL SERVICES SPECIAL PROVISION FOR EROSION CONTROL PROVIDED IN SPECIFICATIONS.
2. PLANT SELECTION, MULCH SELECTION AND SEED QUALITY - CONSULT GENERAL SERVICES SPECIAL PROVISION FOR EROSION CONTROL PROVIDED IN SPECIFICATIONS.
INSTALLATION INFORMATION:
1. TEMPORARY SEEDING PREPARATION AND FERTILIZER SHALL BE THE SAME ANALYSIS AS SPECIFIED FOR IN SEEDING AND MULCHING IN THE GENERAL SERVICES SPECIAL PROVISION FOR EROSION CONTROL PROVIDED IN THE SPECIFICATIONS.
2. FERTILIZER SHALL BE APPLIED AT 400 POUNDS AND SEEDED AT THE RATE OF 50 POUNDS PER ACRE. SWEET SUDAN GRASS, GERMAN MILLET OR BROWNTOP MILLET SHALL BE USED IN SUMMER MONTHS, AND RYE GRAIN DURING THE REMAINDER OF THE YEAR.
3. APPLY SEED EVENLY USING A CYCLONE SEEDER, ROTARY-SPREADER, DROP-SPREADER, CULTIPACK SEEDER OR HYDROSEEDER. HAND BROADCASTING IS NOT RECOMMENDED DUE TO DIFFICULTY IN ACHIEVING A UNIFORM STAND.
4. COVER BROADCAST SEED BY RAKING. FIRM LIGHTLY WITH A ROOLER OR CULTIPACKER.
5. MULCH ALL SEEDINGS TO REDUCE EROSION AND ENCOURAGE GROWTH. CONSULT GENERAL SERVICES SPECIAL PROVISION FOR EROSION CONTROL PROVIDED IN SPECIFICATIONS.
SUPPLEMENTAL SEEDING:
CONSULT GENERAL SERVICES SPECIAL PROVISION FOR EROSION CONTROL PROVIDED IN SPECIFICATIONS.
MOWING:
THE MINIMUM MOWING HEIGHT ON THIS PROJECT SHALL BE 4 INCHES.
MAINTENANCE
1. INSPECT WITHIN 6 WEEKS OF PLANTING TO SEE IF STANDS ARE ADEQUATE. CHECK FOR DAMAGE AFTER HEAVY RAINS. STANDS SHOULD BE UNIFORM AND DENSE. FERTILIZE RESEED AND MULCH DAMAGED AND SPARSE AREAS IMMEDIATELY. TACK OFF THE DOWN MULCH AS NECESSARY.
2. TOPDRESS FALL PLANTINGS AS PER GENERAL SERVICES SPECIAL PROVISION FOR EROSION CONTROL.

NOTES:
SEE APPROPRIATE CHART FOR DIMENSIONS
1. L_a is the length of the riprap apron.
2. d = 1.5 times the maximum stone dia., but not less than 6".
3. A filter blanket or filter fabric should be installed between the riprap and soil foundation.

ENGLISH STANDARD DRAWING FOR
PIPE OUTLET TO FLAT AREA (UNDEFINED CHANNEL)

8 SHEET 1 OF 1
1605.01

DENR-LAND QUALITY & CONSTRUCTION SEQUENCE
NCDENR EROSION AND SEDIMENT CONTROL - DELEGATED AUTHORITY TO NCDOT
CONTACT NCDOT ROADSIDE ENVIRONMENTAL UNIT (REU) FIELD OPERATIONS ENGINEER FOR DIVISION 6 - 919-707-2920

- OBTAIN A LAND DISTURBING PERMIT. SCHEDULE A MANDATORY PRECONSTRUCTION CONFERENCE WITH NCDOT REU, CIVIL ENGINEER AND CONTRACTING STAFF MEMBERS.
- INSTALL GRAVEL CONSTRUCTION PAD, TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS OR OTHER MEASURES AS SHOWN ON THE APPROVED PLAN. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES. SEED TEMPORARY DIVERSIONS, BERMS AND BASINS IMMEDIATELY AFTER CONSTRUCTION.
- CALL NCDOT REU FOR AN ONSITE INSPECTION FOR CERTIFICATE OF COMPLIANCE.
- BEGIN INITIAL DEMOLITION AND UNDERGROUND FUEL TANK REMOVAL, CLEARING AND GRUBBING. MAINTAIN DEVICES AS NEEDED. ROUGH GRADE.
- BEGIN UTILITY RELOCATIONS. REROUTE WATER, SEWER, ELECTRICITY AND STORM LINES AS INDICATED. UTILITY INSTALLATION MUST BE COORDINATED TO ENSURE CONTINUAL SITE SERVICE OF ALL EXISTING UTILITIES DURING CONSTRUCTION. TEST WATERLINE AS IT IS BROUGHT TO THE BUILDING ACCESS POINT AND INFORM ENGINEERS OF TESTING DATA (GPM AT 20 PSI) SO A DETERMINATION CAN BE MADE ON THE ADD L&T-1.
- AFTER SEWER GRAVITY CONNECTION HAS BEEN MADE TO EXISTING ENGINEER'S OFFICE TO THE WEST, REMOVE EXISTING SEPTIC SYSTEM AND REQUIRED UNSUITABLE SOILS OUTSIDE ENGINEER'S OFFICE AND COMPACT SOIL.
- BEGIN BUILDING CONSTRUCTION AND FUEL CANOPY CONSTRUCTION.
- INSTALL STORM SEWER AS SHOWN, AND PROTECT INLETS WITH BLOCK AND GRAVEL INLET CONTROLS, SEDIMENT TRAPS OR OTHER APPROVED MEASURES AS SHOWN ON THE PLAN. INSTALL VELOCITY DISSIPATORS UPON CULVERT INSTALLATION AS SHOWN ON THE APPROVED PLAN SET. INLET PROTECTION OF PARTIALLY INSTALLED STORM SYSTEM WILL BE INSTALLED AND VERIFIED AT THE END OF EACH WORKING DAY.
- STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISH GRADE WITH VEGETATION, PAVING, DITCH LININGS, ETC. SEED AND MULCH FLAT DENUDATED AREAS WITHIN FOURTEEN (14) DAYS OF COMPLETION OF ANY PHASE OF CONSTRUCTION (ALL SLOPES ON SITE ARE LESS SEVERE THAN 3:1). SEED AND MULCH ANY SLOPES GREATER THAN 3:1 WITHIN SEVEN (7) DAYS OF COMPLETION OF ANY PHASE OF CONSTRUCTION. IF CONSTRUCTION WORK HAS CEASED IN AN AREA AND WILL NOT RESUME WITHIN THIRTY (30) DAYS, THAT AREA MUST ALSO BE STABILIZED.
- AFTER THE ROOF DRAINAGE IS TIED INTO THE STORM SYSTEM AND THE BUILDING AREA IS STABILIZED, CONTACT AUTHORITIES FOR A PARTIAL CO IN ORDER TO MOVE EXISTING EQUIPMENT INTO THE NEW EQUIPMENT SHOP.
- COORDINATE WITH NCDOT SITE STAFF ON REMOVAL OF EXISTING EQUIPMENT SHOP AND COMPLETE INSTALLATION OF STORMWATER SYSTEM AND SOUTH PARKING AREA.
- WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED COMPLETELY, CALL NCDOT REU OFFICES FOR AN INSPECTION AS REQUIRED BY THEIR APPROVAL.
- IF THE SITE MEETS THEIR REQUIREMENTS, REMOVE TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS, ETC AND SEED OUT OR STABILIZE ANY RESULTING BARE AREAS. ANY REMAINING PERMANENT EROSION CONTROL DEVICES, SUCH AS VELOCITY DISSIPATORS, SHOULD BE INSTALLED.
- WHEN VEGETATION HAS BECOME ESTABLISHED, CALL FOR A FINAL SITE INSPECTION BY NCDOT REU. OBTAIN A CERTIFICATE OF COMPLETION.

GROUND STABILIZATION*
DWQ CONSTRUCTION GENERAL PERMIT SCHEDULE

SITE AREA DESCRIPTION	STABILIZATION TIME FRAME	STABILIZATION TIME FRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HWQ) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1 THEN 14 DAYS IS ALLOWED
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50 FEET IN LENGTH
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE (EXCEPT FOR PERIMETERS AND HWQ ZONES NOTED ABOVE)

*EXTENSIONS OF TIME MAY BE APPROVED BY THE PERMITTING AUTHORITY BASED ON WEATHER OR OTHER SITE-SPECIFIC CONDITIONS THAT MAKE COMPLIANCE IMPRACTICAL.

NOTES:
1. TEMPORARY OR PERMANENT GROUND COVER STABILIZATION SHALL BE PROVIDED IN ACCORDANCE WITH THE PROVISIONS IN THE CONTRACT AND NCG-010000.
2. ONCE THE CONTRACTOR IDENTIFIES THE AREA FOR STABILIZATION DUE TO INACTIVITY, THE CONTRACTOR SHALL OBTAIN CONCURRENCE FROM THE ENGINEER AND ADHERE TO THE FOLLOWING OPTIONS BASED ON THE ESTIMATED AMOUNT OF TIME THE AREA WILL REMAIN INACTIVE. IF THE AREA STABILIZED EXCEEDS THE ESTIMATED TIMEFRAME, THE CONTRACTOR SHALL IMPLEMENT THE NEXT LEVEL OF STABILIZATION AS DIRECTED BY THE ENGINEER.
3. SHORT TERM STABILIZATION - FOR AREAS THAT WILL REMAIN INACTIVE FOR UP TO 21 DAYS
4. ERODABLE AREAS SHALL BE STABILIZED UTILIZING NON VEGETATIVE COVER.
NON-VEGETATIVE COVER OPTIONS INCLUDE STRAW MULCH, HYDRAULIC APPLIED EROSION CONTROL PRODUCTS OR ROLLED EROSION CONTROL PRODUCTS. IF STRAW MULCH IS USED, IT SHALL PROVIDE 100% GROUND COVER AND BE TACKED SUFFICIENTLY TO HOLD THE MULCH IN PLACE FOR THE DURATION OF THE INACTIVE PERIOD. ALL OTHER METHODS SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S DIRECTIONS.
5. MID-TERM STABILIZATION - FOR AREAS THAT WILL REMAIN INACTIVE FOR UP TO 90 DAYS. SEE SEEDING SCHEDULE FOR STABILIZATION PROTOCOL.
6. LONG-TERM STABILIZATION - FOR AREAS THAT WILL REMAIN INACTIVE FOR MORE THAN 91 DAYS. SEE SEEDING SCHEDULE FOR STABILIZATION PROTOCOL.
7. NOTE KENTUCKY 31 IS NO LONGER AN APPROVED TALL FESCUE CULTIVAR AND MAY NOT BE USED.

ENGLISH STANDARD DRAWING FOR
ROCK INLET SEDIMENT TRAP TYPE C

10 SHEET 1 OF 1
1632.03

NOTES:
EXCAVATE TEMPORARY SILT DITCH WITH NON-VERTICAL SIDE SLOPES AND NOT GREATER THAN 1.5:1 SLOPE.
SEED BERM CREATED BY EXCAVATED MATERIAL AS DIRECTED.

ENGLISH STANDARD DRAWING FOR
TEMPORARY SILT DITCH

11 SHEET 1 OF 1
1630.03

NOTE: USE NO. 5 OR NO. 57 STONE FOR SEDIMENT CONTROL STONE. USE 24 GAUGE MINIMUM WIRE MESH HARDWARE CLOTH WITH 1/4 INCH MESH OPENINGS. PLACE TOP OF WIRE MESH A MINIMUM OF ONE FOOT BELOW THE SHOULDER OR ANY DIVERSION POINT. INSTALL WIRE MESH UNDER SEDIMENT CONTROL STONE. USE 5" STEEL POST, INSTALLED 1.5" DEEP MINIMUM, AND ANGLE STEEL TYPE. SPACE POST A MAXIMUM OF 4'.

ENGLISH STANDARD DRAWING FOR
ROCK INLET SEDIMENT TRAP TYPE C

12 SHEET 1 OF 1
1632.03

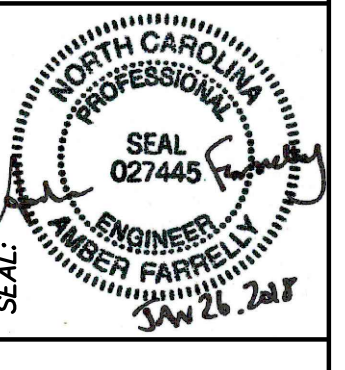
NOTE: 1. SILTSACKS SHALL BE INSTALLED IN ALL CATCH BASIN UNTIL DRAINAGE AREA HAS BEEN FULLY STABILIZED.

ENGLISH STANDARD DRAWING FOR
EROSION CONTROL SILT SACK

13 SHEET 1 OF 1
1632.03

NOTE THAT EROSION AND SEDIMENT CONTROL/ STORMWATER CERTIFICATION REQUIREMENTS ARE LISTED ON SHEET C7.3, DETAIL 7

DETAIL NOTES
1. LAND DISTURBING AND EROSION CONTROL DETAILS SHALL ADHERE TO ALL APPLICABLE STATE CONSTRUCTION STANDARDS.
2. WATER SERVICES ON SITE ARE MANAGED BY NCDOT. WATER METERS AND MAINS ARE MANAGED BY THE CITY OF LUMBERTON, NORTH CAROLINA AND ARE TO ADHERE TO THEIR STANDARDS AND APPROVALS.
3. SEWER SERVICE IS MANAGED BY NCDOT ONSITE AND IS TO ADHERE TO THE STANDARDS AND APPROVALS AS SET BY ROBESON COUNTY SEWER DEPARTMENT.
4. ALL ROADWAY AND SITE WORK IS OWNED AND MAINTAINED BY NCDOT. ALL CONSTRUCTION FOR PUBLIC ACCESSSES ARE TO ADHERE TO NCDOT STANDARDS AND SPECIFICATIONS.



DESIGNED BY: FACILITIES DESIGN ARCHITECTS & ENGINEERS ARCHITECTS & ENGINEERS FACILITIES MANAGEMENT DIVISION NCDOT
1 SOUTH WILKINSON STREET RALEIGH, NORTH CAROLINA 27601 PHONE: 919/707-4540 FAX: 919/715-0599

CONSULTANT: B&F CONSULTING 2808 TOBERRY LANE RALEIGH, NORTH CAROLINA 27606 PHONE: 919/883-9102 FAX: 919/883-9102 NC LICENSE C2-148

DRAWING TITLE / DESCRIPTION: UTILITY/LANDSCAPING DETAILS

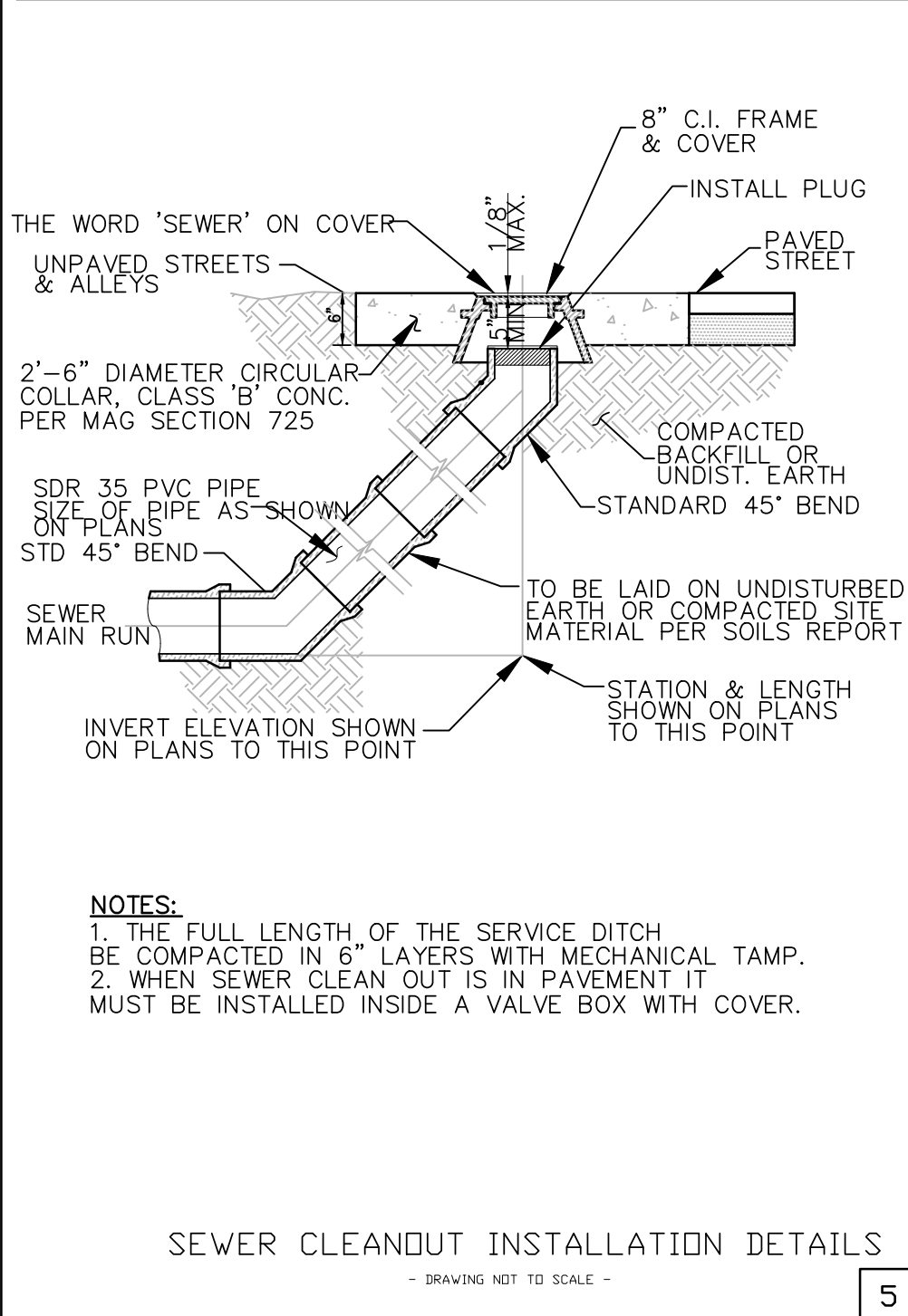
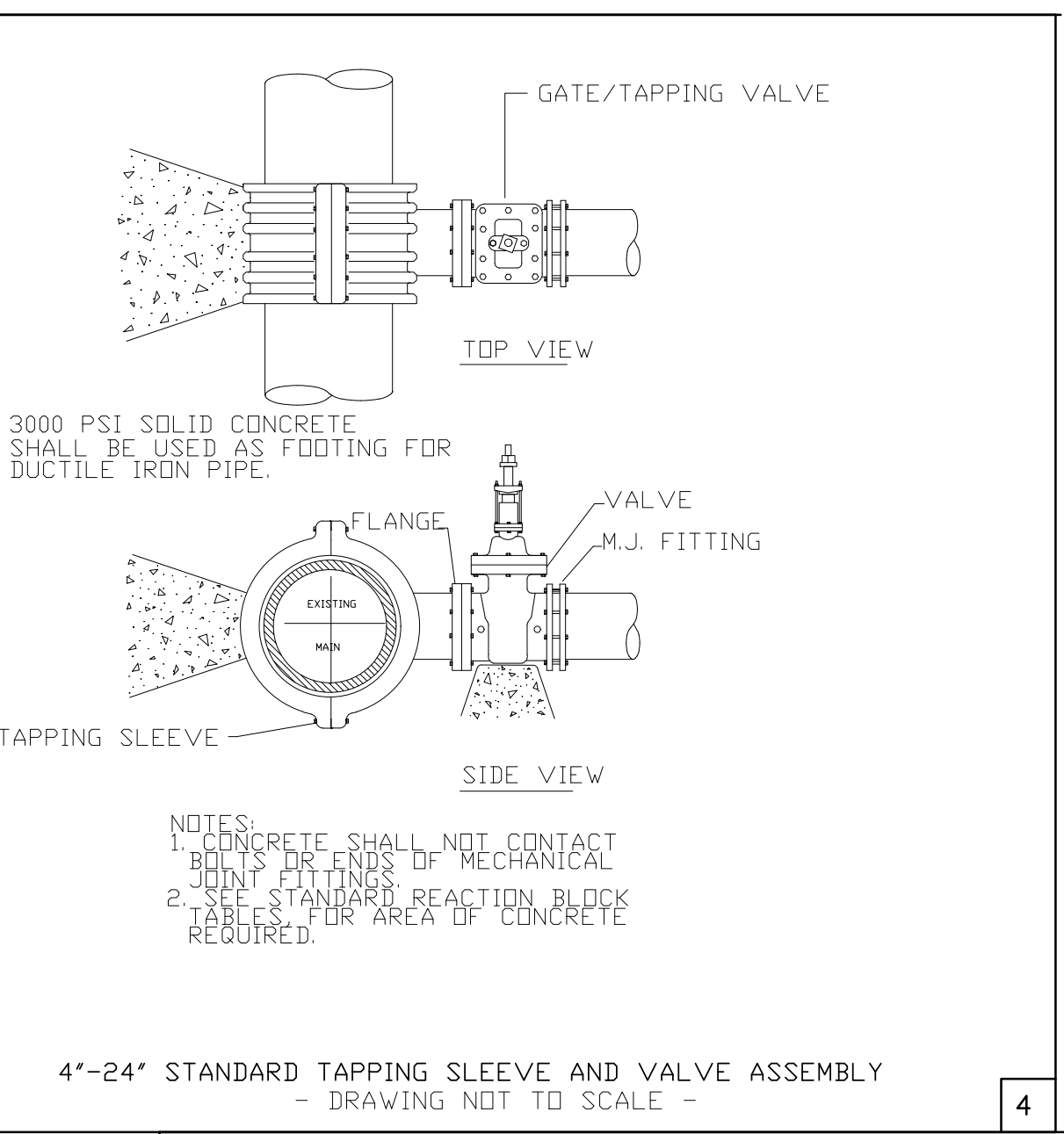
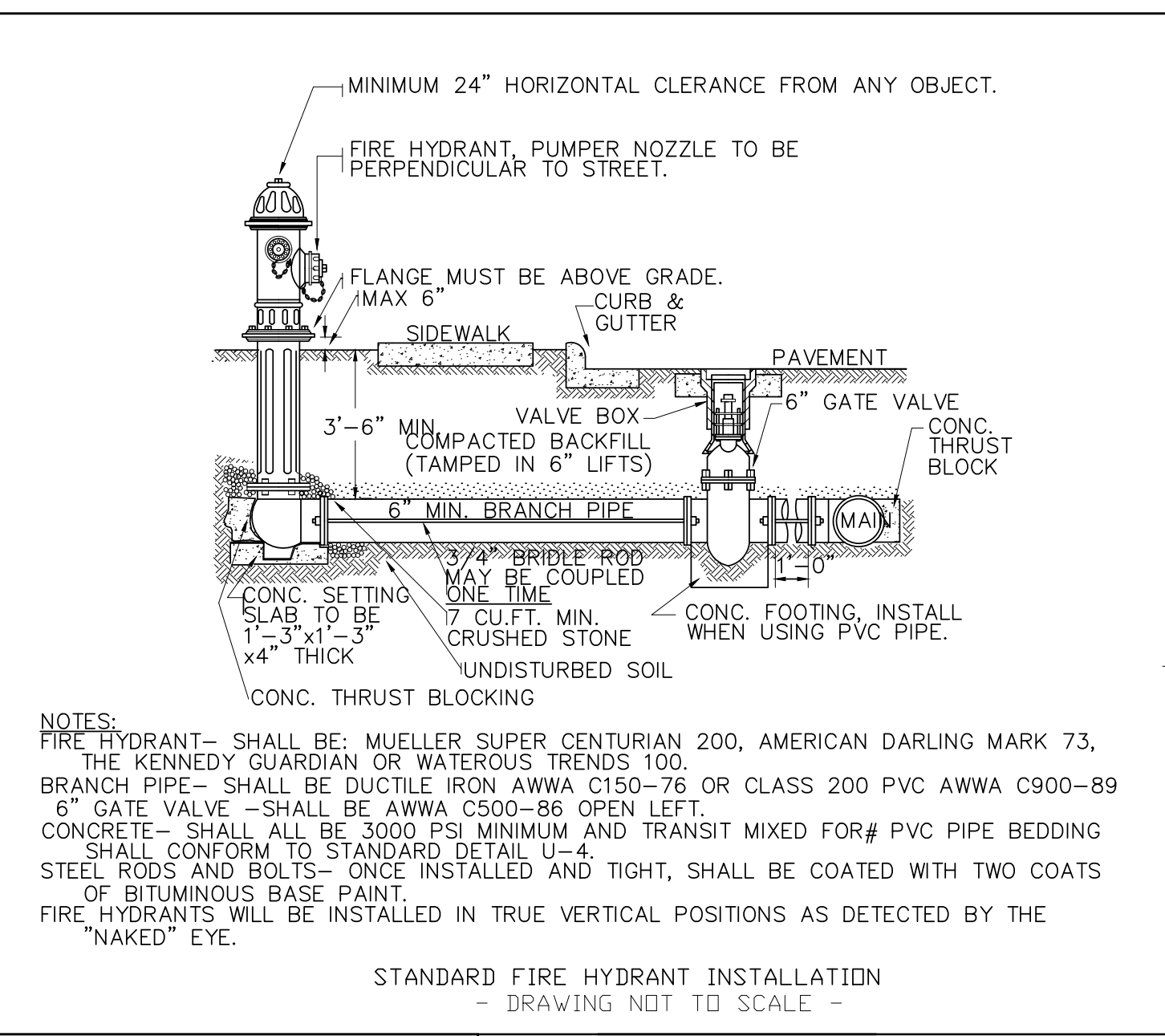
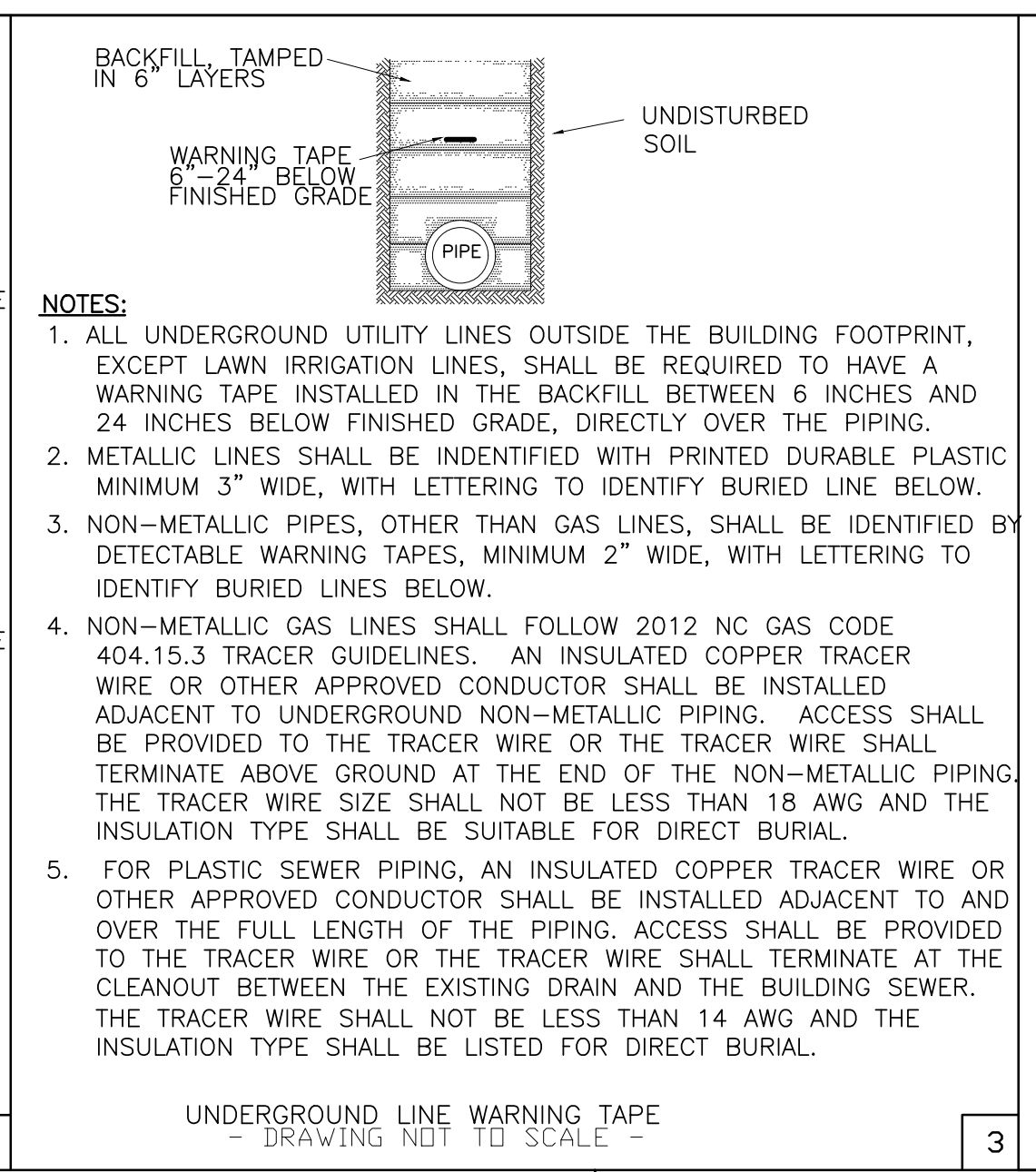
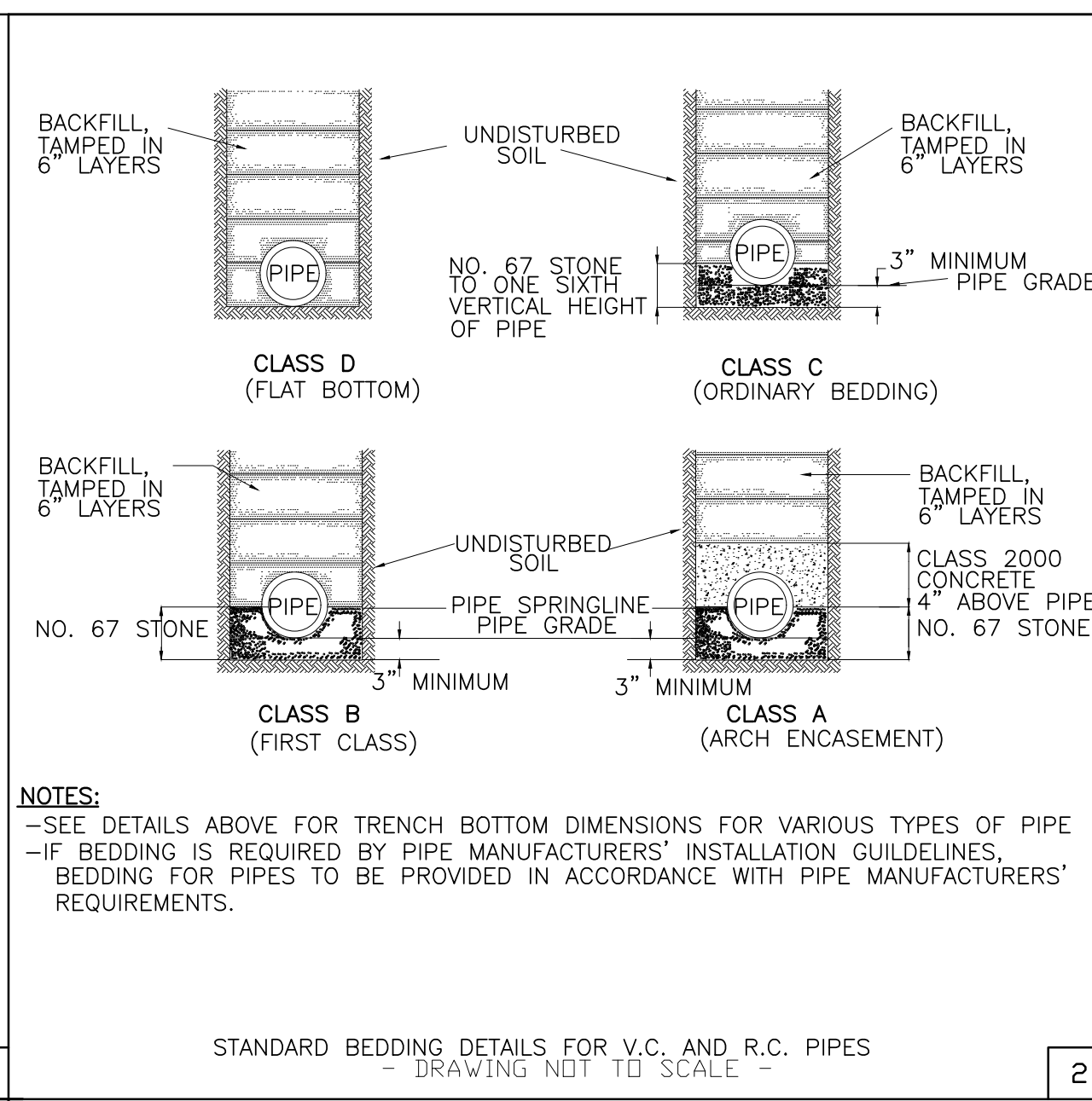
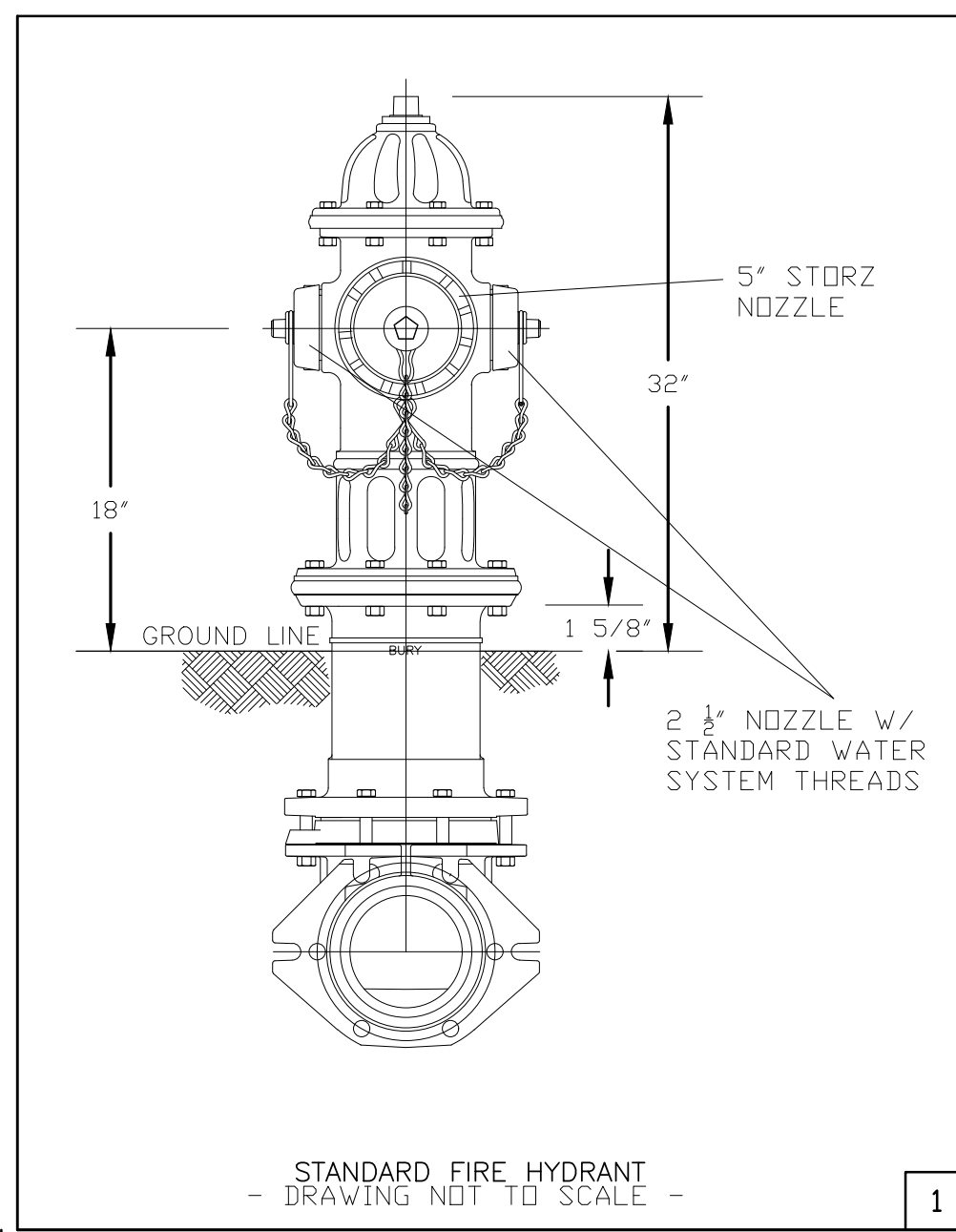
PROJECT TITLE: LUMBERTON EQUIPMENT SHOP NCDOT HIGHWAY DIVISION 6
872 NC 711 HIGHWAY LUMBERTON, NORTH CAROLINA 28360 (ROBESON COUNTY)

STATE CONSTRUCTION ID.# 16-12916-01A

ASSET NUMBER: 78-06-00

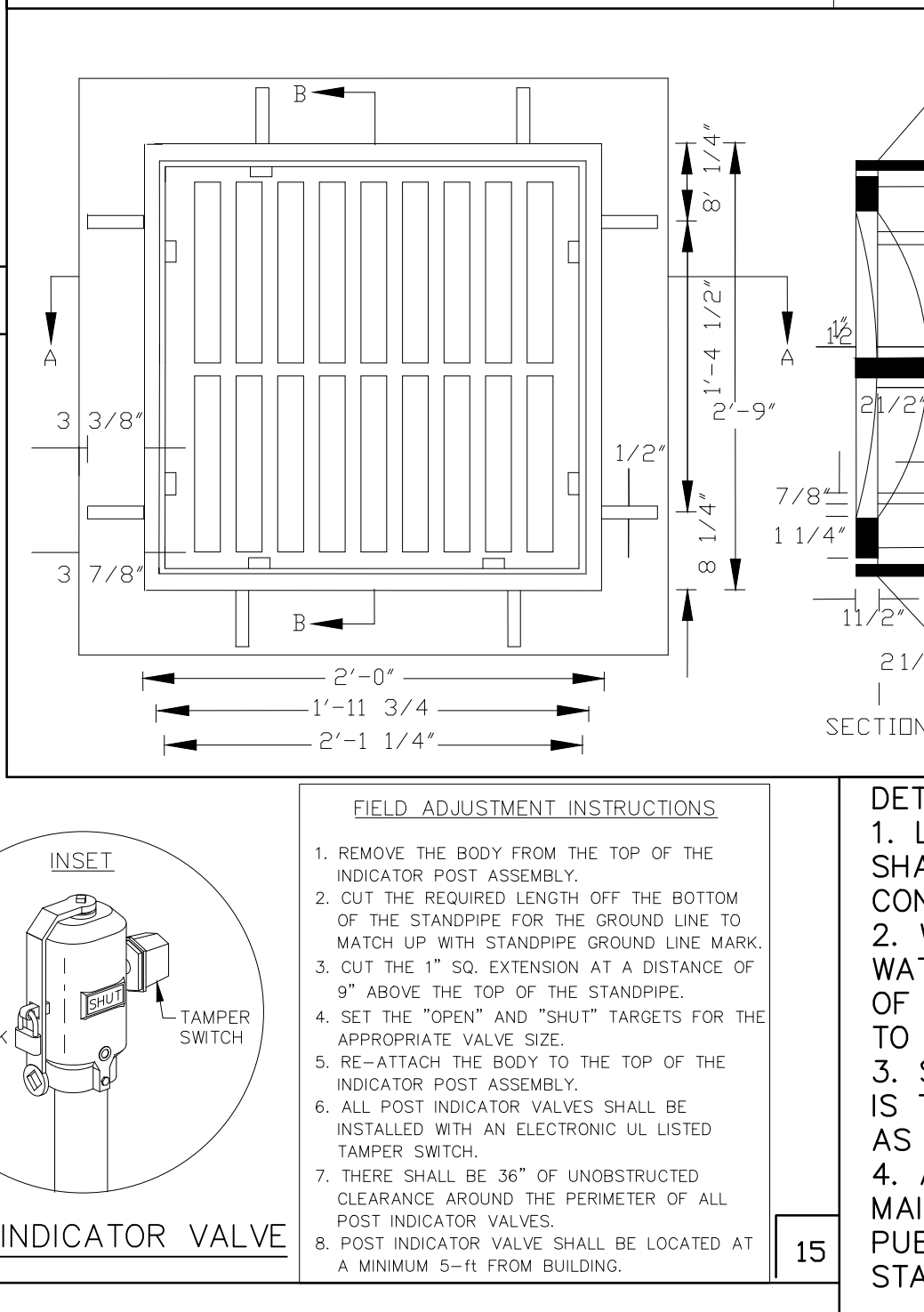
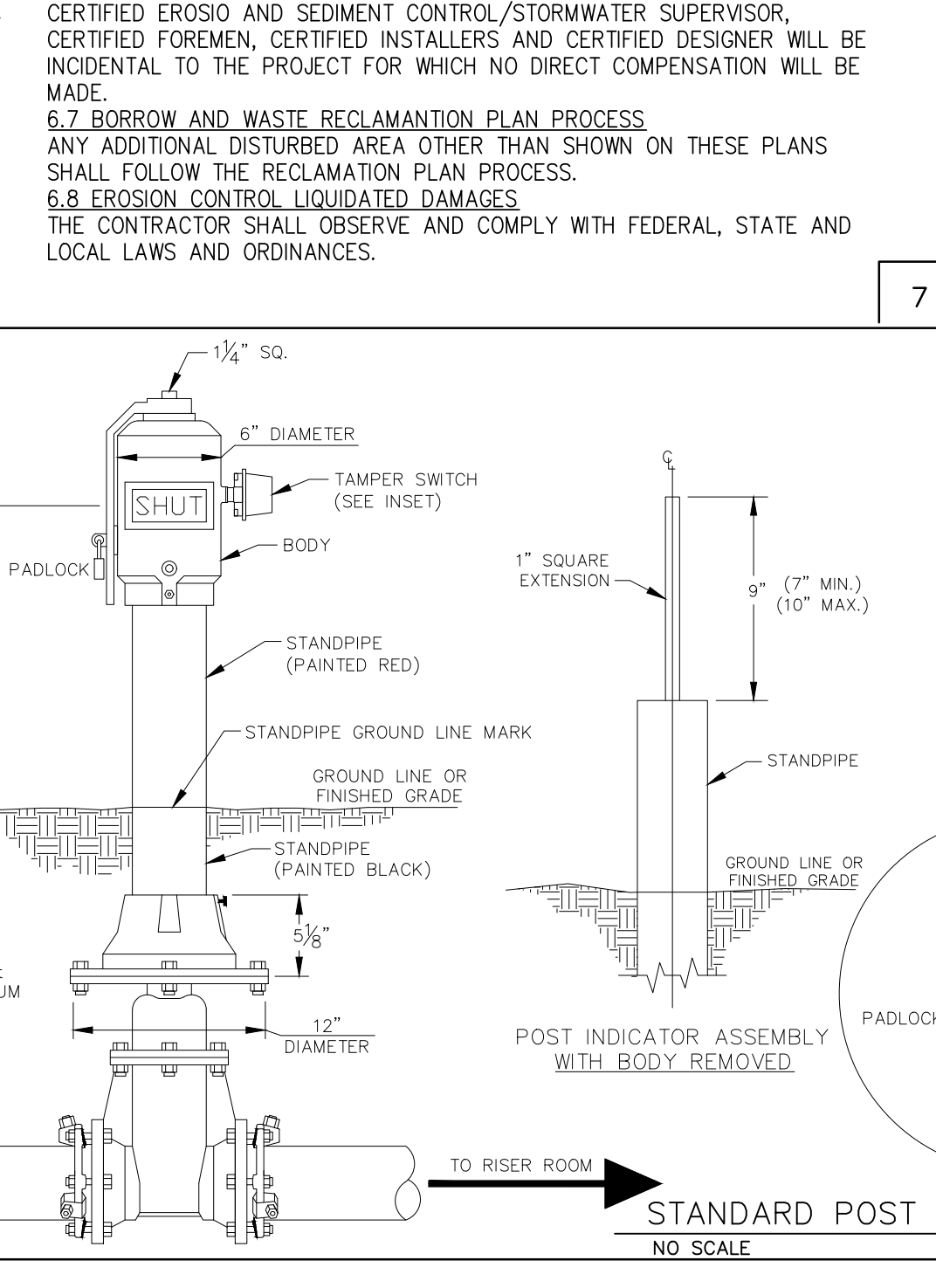
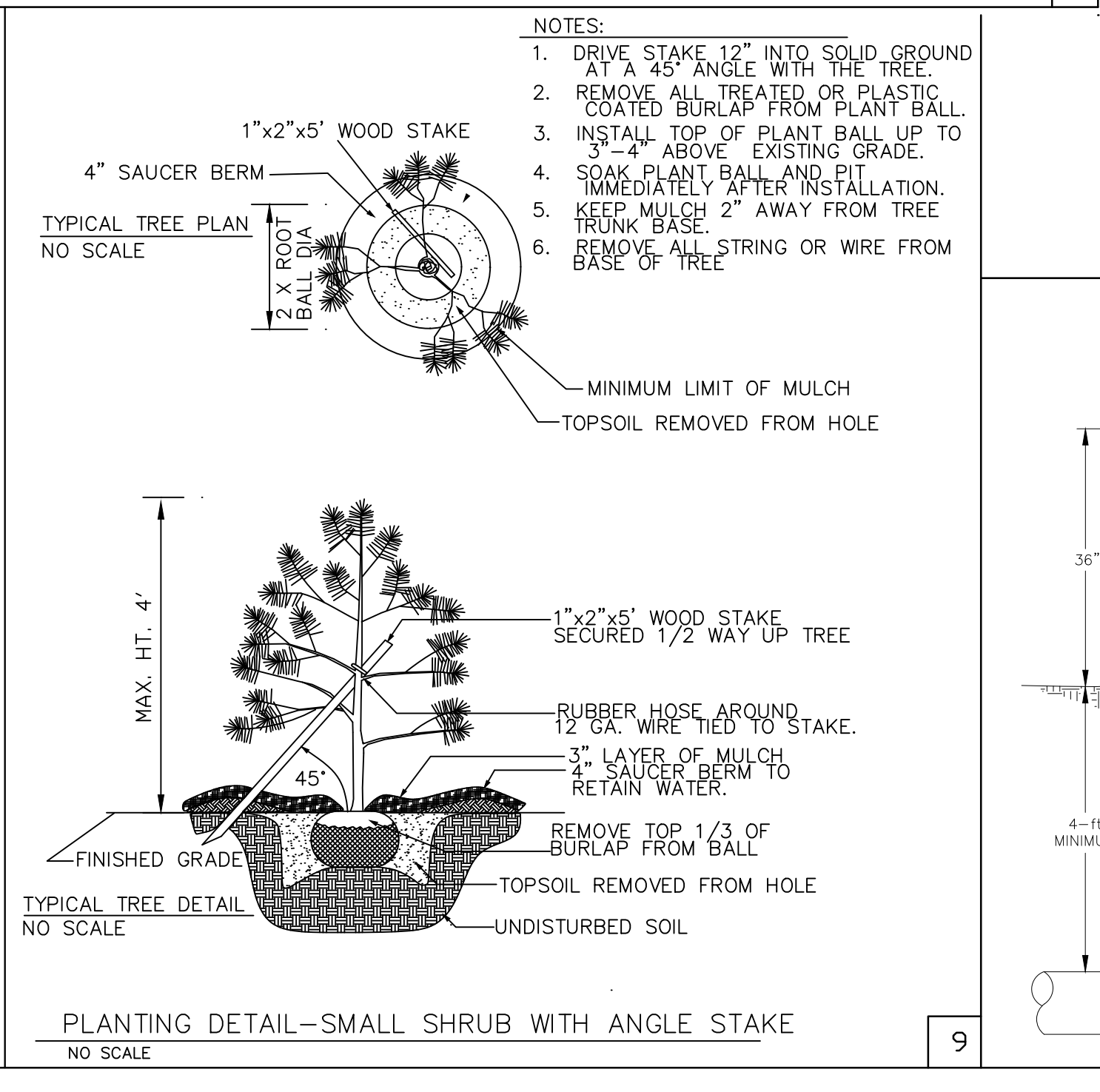
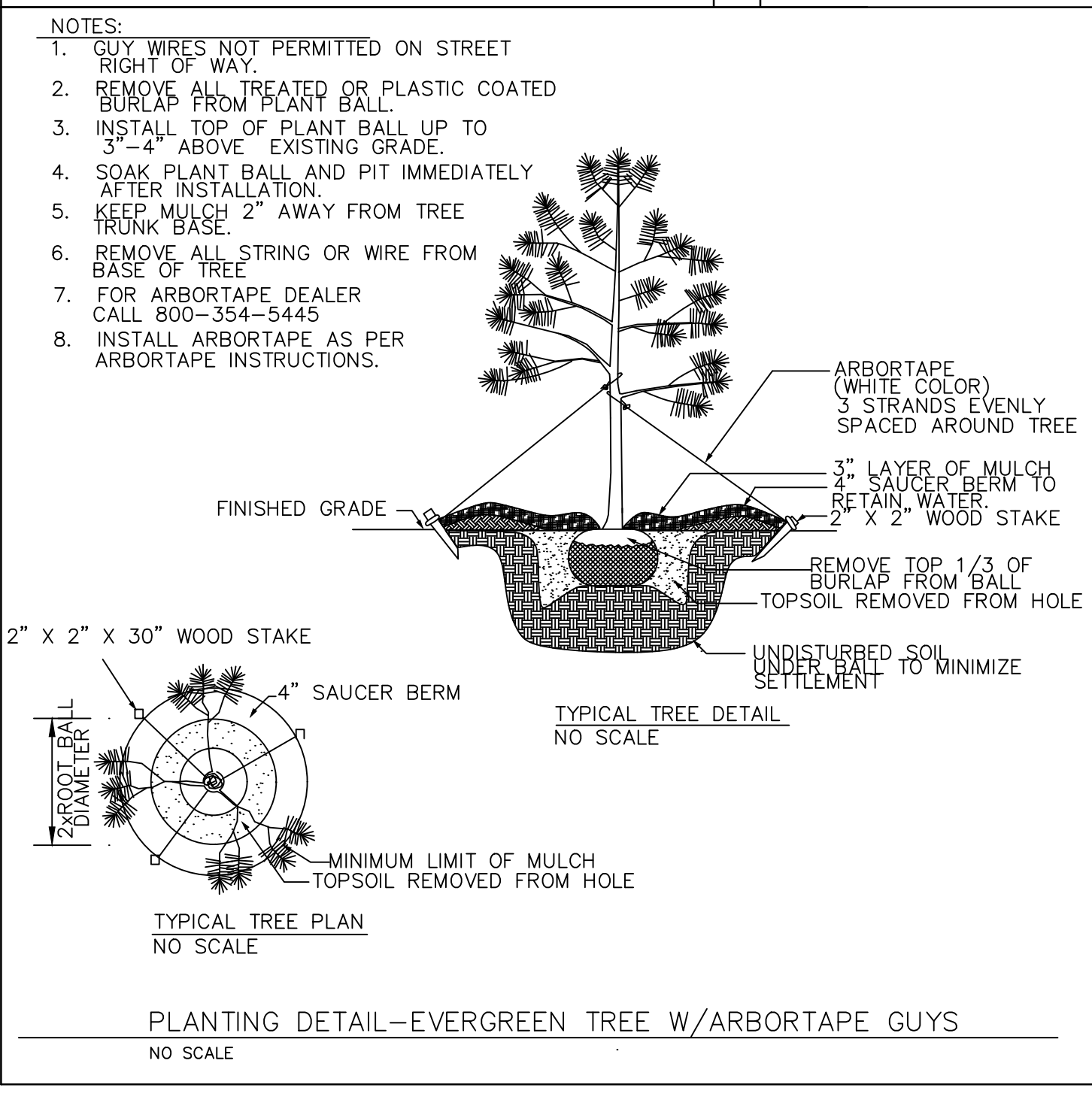
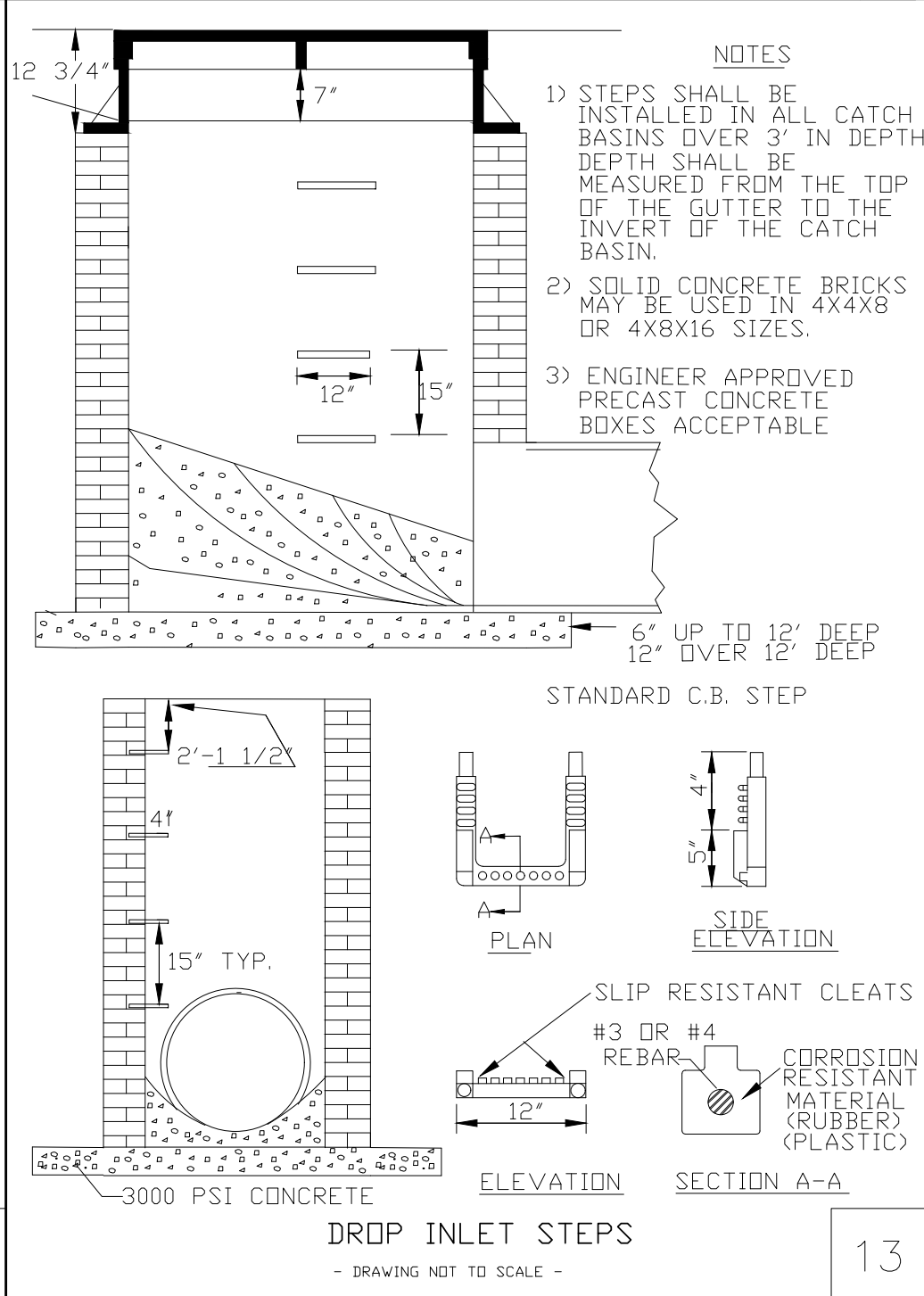
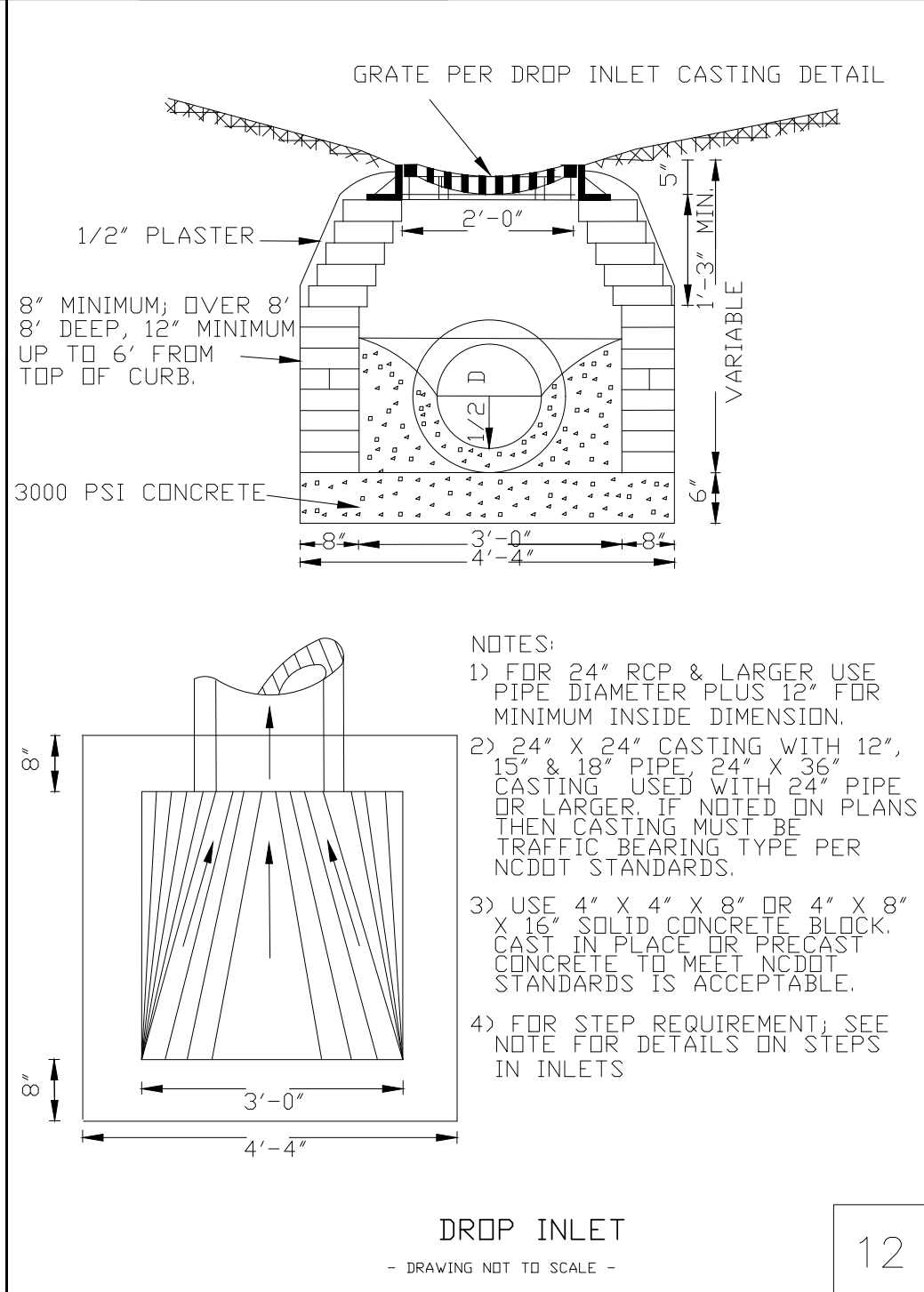
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C6.3

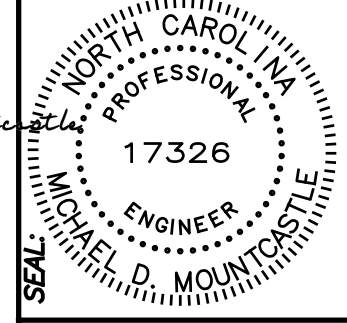


SIZE AND DEGREE OF BEND	STATIC THRUST IN POUNDS	MODIFIED RIV. ELEV. 4000 LBS./F.P.	SOFT CLAY 2000 LBS./F.P.	GRAVEL 1200 LBS./F.P.	RIV. CLAY 800 LBS./F.P.	SAND 1000 LBS./F.P.	COMPACT FIRM SAND 1500 LBS./F.P.	QUICKSAND - VERT. PIPEROCK 1000 LBS./F.P.	
11 1/4°	1,108	1	1	1	1	1	1	2	1
22 1/2°	2,207	1	2	2	1	1	1	3	1
45°	4,328	2	3	3	1	1	2	5	1
90°	7,996	2	4	5	1	1	2	8	1
PLUG	5,655	2	3	4	1	1	2	6	1
8"									
11 1/4°	1,970	1	1	2	1	1	1	2	1
22 1/2°	3,922	1	2	3	1	1	1	4	1
45°	7,694	2	4	5	1	1	2	8	1
90°	14,215	4	8	9	2	2	4	15	2
PLUG	10,053	3	5	6	2	2	3	10	1

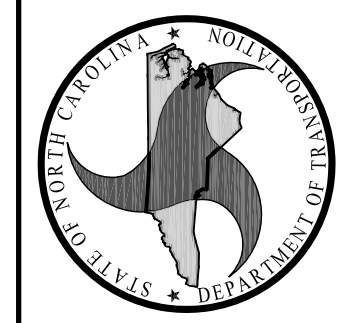
EROSION AND SEDIMENT CONTROL/STORMWATER CERTIFICATION. (1-16-07) (REV 11-16-10) 105-16, 225-2, 16 SP1 6180
ALL SITE CONTRACTORS SHALL READ AND FOLLOW SPECIFICATION SECTION 31-2510: GENERAL SERVICES PROVISIONS FOR EROSION CONTROL
HIGHLIGHTS NOTED HERE:
6.1 GENERAL SCHEDULE AND CONDUCT CONSTRUCTION ACTIVITIES IN A MANNER THAT WILL MINIMIZE SOIL EROSION AND THE RESULTING SEDIMENTATION AND TURBIDITY OF SURFACE WATERS, AND ESTABLISH A CHAIN OF RESPONSIBILITY FOR OPERATIONS AND SUBCONTRACTORS' OPERATIONS TO ENSURE THAT THE EROSION AND SEDIMENT CONTROL/STORMWATER POLLUTION PREVENTION PLAN IS IMPLEMENTED AND MAINTAINED.
6.2 ROLES AND RESPONSIBILITIES A CERTIFIED EROSION AND SEDIMENT CONTROL/STORMWATER SUPERVISOR IS REQUIRED AT LEVEL II AND SHALL BE ON THE PROJECT WITHIN 24 HOURS NOTICE FROM INITIAL EXPOSURE OF AN ERODABLE SURFACE TO THE PROJECT'S FINAL ACCEPTANCE. THE PROJECT PERMIT REFERENCES NCG10000, GENERAL PERMIT TO DISCHARGE STORMWATER UNDER THE NPDES, AND THIS SITE HAS CERTAIN REQUIREMENTS TO ADHERE TO THAT PERMIT AS NOTED IN THE PROJECT SPECIFICATIONS. A QUALITY CONTROL PROGRAM TO CONTROL EROSION, PREVENT SEDIMENTATION AND FOLLOW PROVISIONS/CONDITIONS OF THE PERMITS SHALL BE ENACTED. A CERTIFIED FOREMAN SHALL BE ON SITE FOR EACH TYPE OF WORK LISTED IN THE PROJECT SPECIFICATIONS TO CONTROL EROSION, PREVENT SEDIMENTATION AND FOLLOW PERMIT PROVISIONS. ADDITIONALLY, AT LEAST ONE ON SITE, LEVEL I CERTIFIED INSTALLER SHALL BE PROVIDED FOR THE EROSION/SEDIMENT CONTROL ACTIVITIES AS LISTED IN THE PROJECT SPECIFICATIONS.
6.3 PRECONSTRUCTION MEETINGS A PRECONSTRUCTION MEETING SHALL BE HELD WITH ALL APPROPRIATE PARTIES, AND THE NAMES OF THE CERTIFIED SUPERVISOR, CERTIFIED FOREMAN, CERTIFIED INSTALLERS AND CERTIFIED DESIGNER SHALL BE PROVIDED. IF ANY CERTIFIED PERSONNEL CHANGE OVER THE LIFE OF THE CONTRACT, THEY SHALL BE GIVEN TO THE ENGINEER WITHIN 2 DAYS OF CHANGE.
6.4 ETHICAL RESPONSIBILITY ANY COMPANY HAS THE RESPONSIBILITY TO FULLY DISCLOSE ANY REPRIMAND OR DISMISSAL OF AN EMPLOYEE RESULTING FROM IMPROPER TESTING OR FALSIFICATION OF RECORDS.
6.5 REVOCATION OF SUSPENSION OF CERTIFICATION ENGINEER MAY RECOMMEND CERTIFICATION BE REVOKED FOR ANY CONTRACTOR/SUBCONTRACTOR WHEN IN VIOLATION OF THE PROJECT SPECIFICATIONS.
6.6 MEASUREMENT AND PAYMENT CERTIFIED EROSION AND SEDIMENT CONTROL/STORMWATER SUPERVISOR, CERTIFIED FOREMAN, CERTIFIED INSTALLERS AND CERTIFIED DESIGNER WILL BE INCIDENTAL TO THE PROJECT FOR WHICH NO DIRECT COMPENSATION WILL BE MADE.
6.7 BORROW AND WASTE RECLAMATION PLAN PROCESS ANY ADDITIONAL DISTURBED AREA OTHER THAN SHOWN ON THESE PLANS SHALL FOLLOW THE RECLAMATION PLAN PROCESS.
6.8 EROSION CONTROL LIQUIDATED DAMAGES THE CONTRACTOR SHALL OBSERVE AND COMPLY WITH FEDERAL, STATE AND LOCAL LAWS AND ORDINANCES.



DETAIL NOTES
1. LAND DISTURBING AND EROSION CONTROL DETAILS SHALL ADHERE TO ALL APPLICABLE STATE CONSTRUCTION STANDARDS.
2. WATER SERVICES ON SITE ARE MANAGED BY NCDOT. WATER METERS AND MAINS ARE MANAGED BY THE CITY OF LUMBERTON, NORTH CAROLINA AND ARE TO ADHERE TO THEIR STANDARDS AND APPROVALS.
3. SEWER SERVICE IS MANAGED BY NCDOT ONSITE AND IS TO ADHERE TO THE STANDARDS AND APPROVALS AS SET BY ROBESON COUNTY SEWER DEPARTMENT.
4. ALL ROADWAY AND SITE WORK IS OWNED AND MAINTAINED BY NCDOT. ALL CONSTRUCTION FOR PUBLIC ACCESS AREAS ARE TO ADHERE TO NCDOT STANDARDS AND SPECIFICATIONS.



DESIGNED BY:
FACILITIES DESIGN ARCHITECTS & ENGINEERS
 FACILITIES MANAGEMENT DIVISION, NC DOT
 1 SOUTH WILMINGTON STREET
 RALEIGH, NORTH CAROLINA 27601
 PHONE 919/707-4600 FAX 919/707-0089



CONSULTANT:

DRAWING TITLE / DESCRIPTION:
 FOUNDATION PLAN
 FOUNDATION DETAILS

PROJECT TITLE:
Lumberton Equipment Sub-Shop
 HIGHWAY DIVISION 6, NCDOT
 ROBESON COUNTY, NORTH CAROLINA

STATE CONSTRUCTION ID.# 16-12916-01A

ASSET NUMBER:
 CO.# = SITE.# = BLDG.#
 78 = 06 = 00

REVISIONS
 NO. DATE

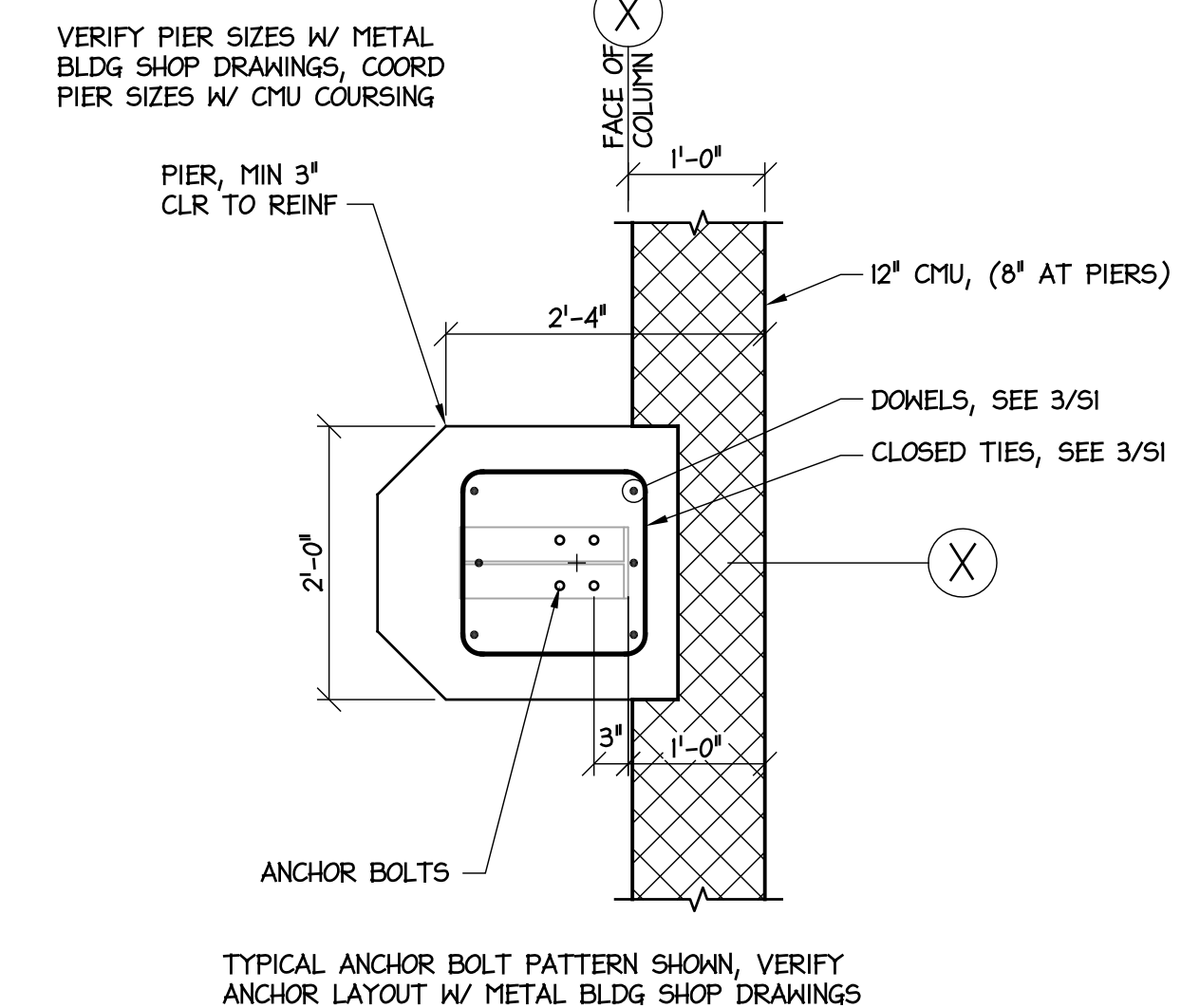
DATE ISSUED: 12-15-17
 DRAWN BY: MDM
 CHECKED BY: MDM
 SHEET NO.

S1

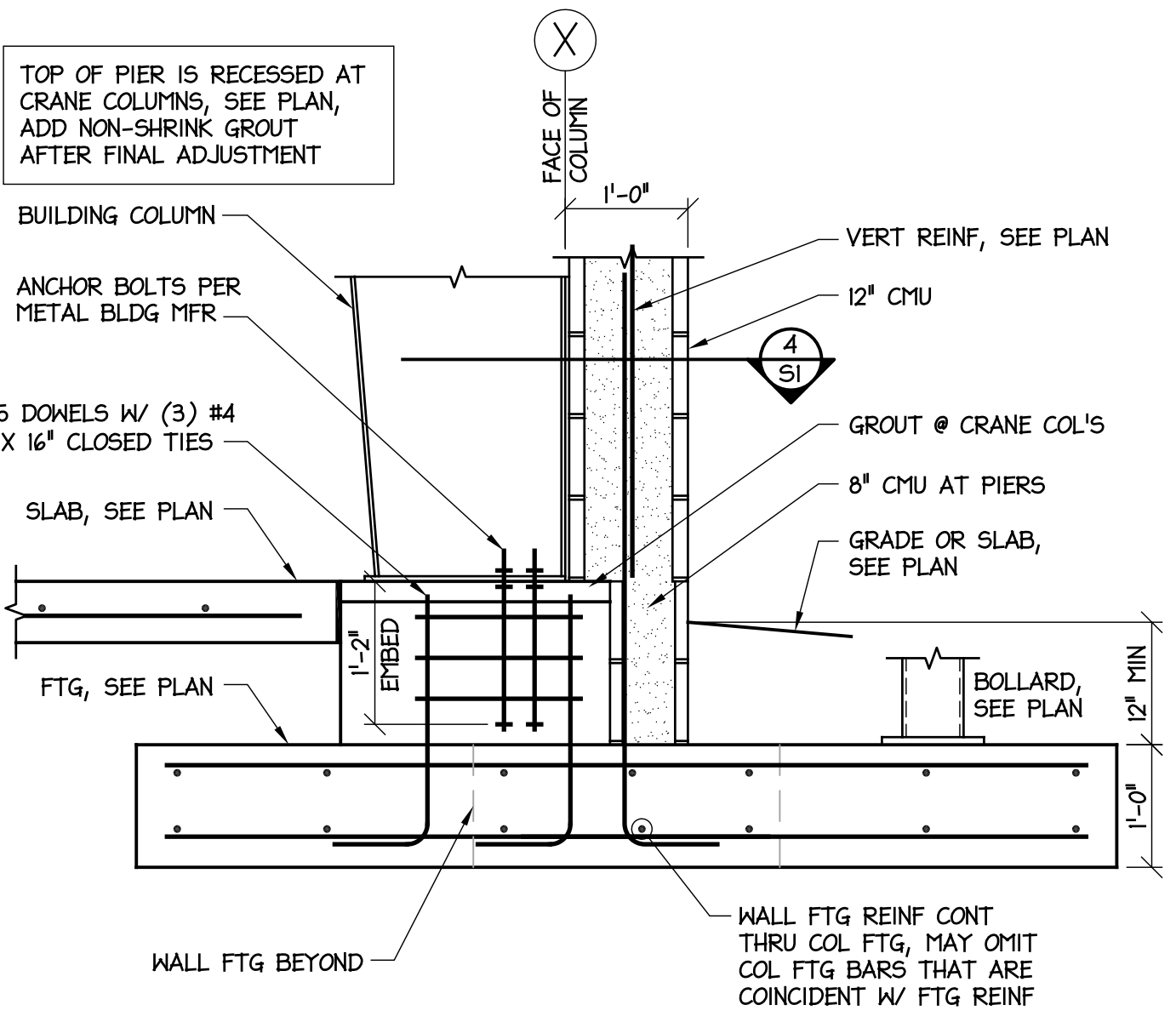
NOTES:

- COMPRESSIVE STRENGTH OF CONCRETE FOR FOOTINGS SHALL BE 3000 PSI. CONCRETE FOR FLOOR SLABS SHALL BE 4000 PSI.
- FOOTING SIZES SHOWN ARE BASED ON ESTIMATED COLUMN REACTIONS. SIZES ARE TO BE VERIFIED BY ENGINEER AFTER RECEIPT OF RECEIPT REPORT BY BLDG MFR.
- WCJ DENOTES WALL CONTROL JOINT, SEE 9/54. SEE ARCH FOR LOCATIONS.
- VERIFY LIFT PIT LOCATIONS & DIMENSIONS W/ ARCHITECTURAL PLANS & APPROVED EQUIPMENT SHOP DRAWINGS.
- PROVIDE FLOOR SLOPES & DEPRESSIONS AS SHOWN, COORDINATE W/ ARCHITECTURAL & PLUMBING PLANS. MAINTAIN SLAB THICKNESS BELOW DEPRESSED AREAS.
- COORD FOOTINGS W/ PLUMBING & STEP AS REQ'D, SEE 11/54 FOR STEP DETAIL.
- ELEVATIONS SHOWN ON STRUCTURAL PLANS ARE RELATIVE TO THE FIN FLOOR ELEVATION = +0'-0". SEE CIVIL PLANS FOR TRUE ELEVATIONS.
- CJ DENOTES SLAB CONTROL JOINTS, SEE DETAIL 8/54.
- REINF ALL CMU WALLS W/ 9 GA JOINT REINF @ 16" (EVERY OTHER COURSE). REINF ALL HATCHED CMU WALLS W/ #5 VERT @ 48" OC. SEE 12/55 FOR VERT REINF SPACING ON SHORT WALL SEGMENTS.
- SEE SHEET S2 FOR TOP OF MASONRY ELEVATIONS.
- SEE CIVIL PLANS FOR EXTERIOR CONCRETE.
- SEE 4/56 FOR FIRE PUMP SLAB. SEE CIVIL & PLUMBING DRAWINGS FOR LOCATION.

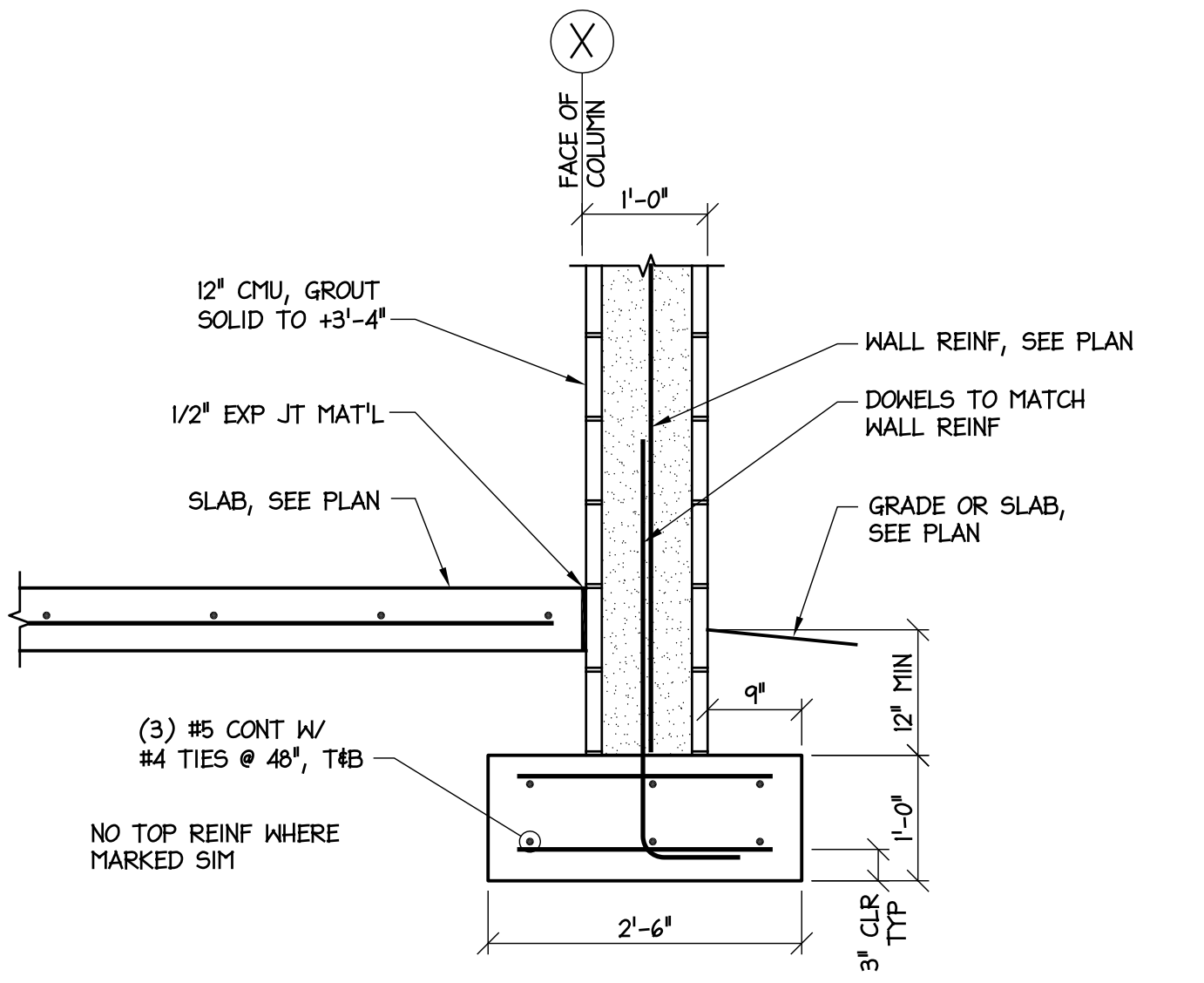
SLAB "A" = 4" 4000 PSI CONC SLAB REINF W/ #4 @ 16" EA ON VAPOR RETARDER ON 4" COMPACTED GRANULAR BASE
 SLAB "B" = 4" 4000 PSI CONC SLAB REINF W/ #4 @ 24" OC ON VAPOR RETARDER ON 4" COMPACTED GRANULAR BASE
 NOTE: VAPOR RETARDER NOT REQ'D UNDER EXTERIOR SLABS



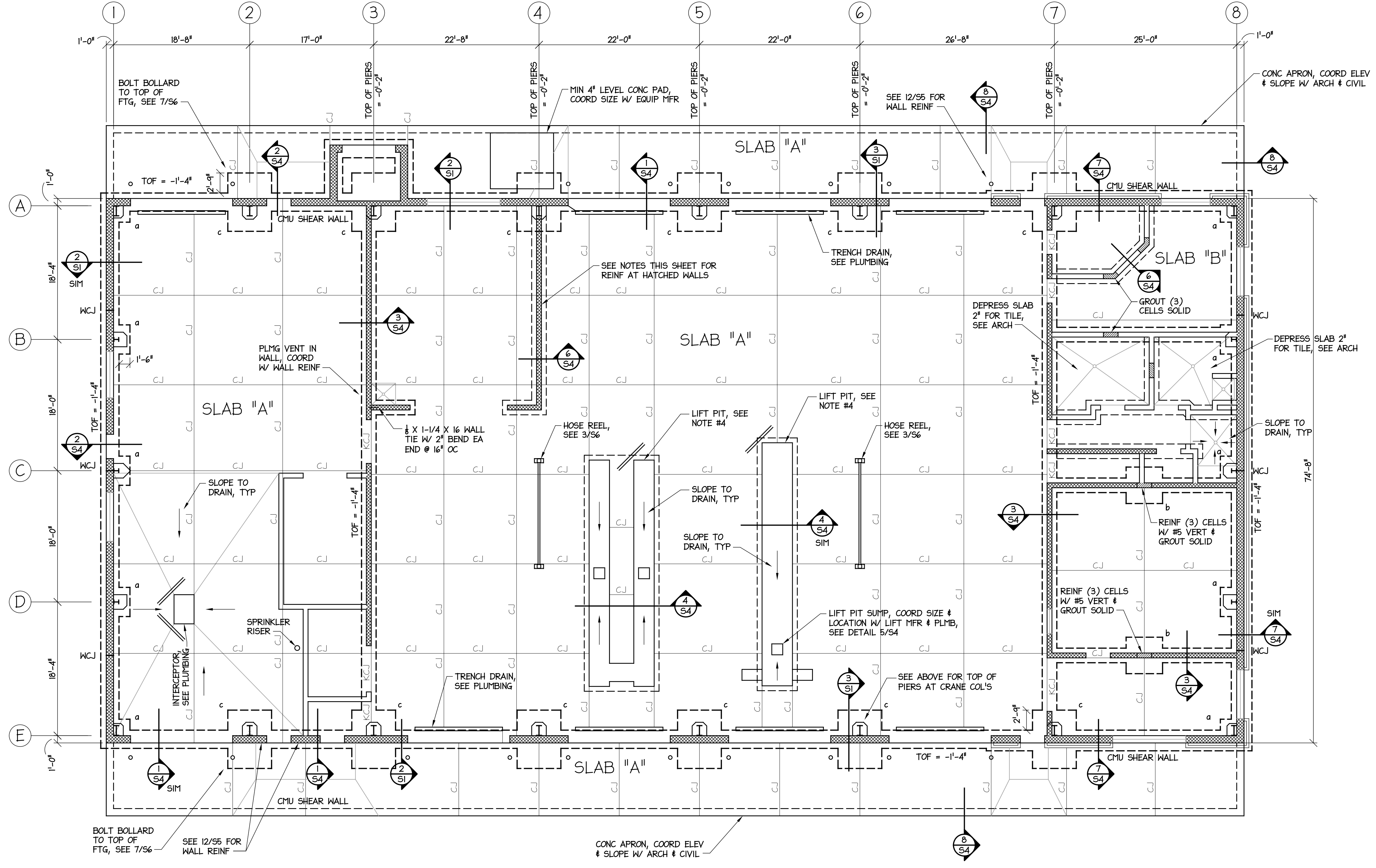
4 SLAB REINF AT COLUMN
 SCALE: 3/4" = 1'-0"



3 COLUMN FOOTING
 SCALE: 3/4" = 1'-0"



2 EXTERIOR WALL FTG
 SCALE: 3/4" = 1'-0"



FOOTING SCHEDULE		
MARK	SIZE	REINFORCEMENT
a	4'-0" X 4'-0" X 12"	(4) #5 EW
b	5'-0" X 5'-0" X 12"	(5) #5 EW
c	6'-0" X 8'-0" X 12"	(7) #5 EW, T4B

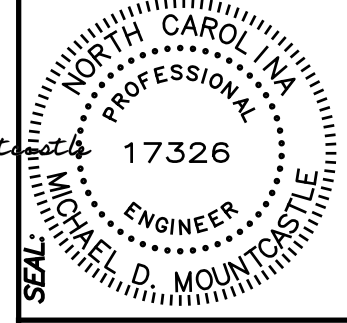
1 FOUNDATION PLAN
 SCALE: 1/8" = 1'-0"



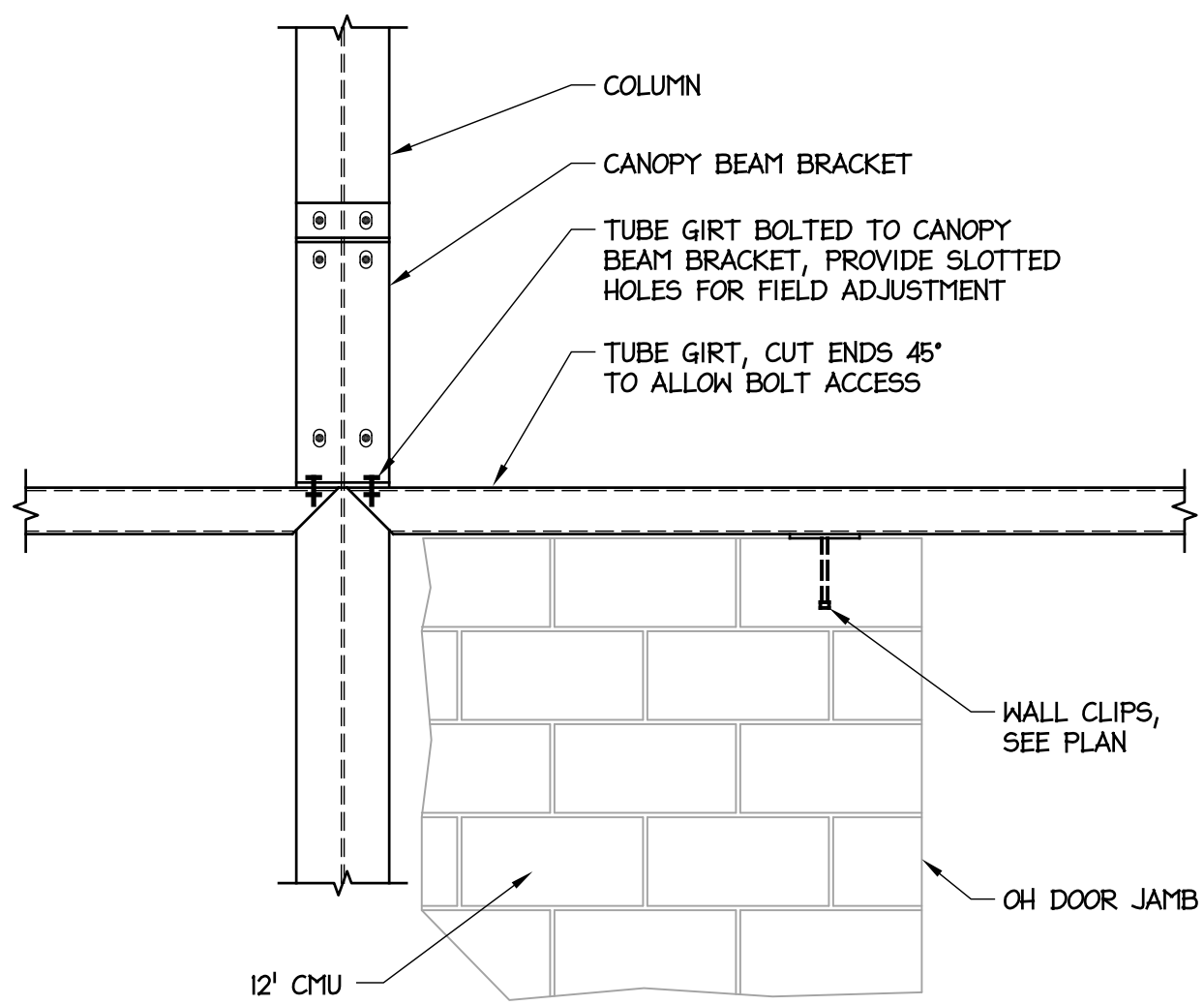
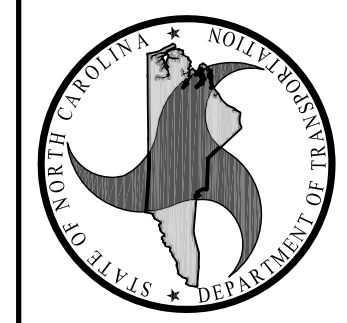
NOTES:

- ELEVATIONS SHOWN ON STRUCTURAL PLANS ARE RELATIVE TO THE FIN FLOOR ELEVATION = +0'-0". SEE ARCH & SITE PLANS FOR TRUE ELEVATIONS.
- CUT CMU AS REQ'D FOR PROPER BEAM BEARING ELEVATIONS. WHERE EXPOSED TO VIEW, CMU SHALL BE TIGHT TO BEAM (WITHIN MORTAR JOINT THICKNESS). OTHERWISE, CUT CMU NO MORE THAN 4" WIDER THAN BEAM.
- MEZZANINE SLAB SHALL BE 4" TOTAL THICKNESS NM CONC SLAB W/ 6X6-WI.4XMI.4 MMR ON 1.5VL22 GALVANIZED OR PAINTED METAL DECK.
- ATTACH FLOOR DECK TO BEAMS W/ 3/8" PUDDLE WELDS IN 3/4" PATTERN & #10 SIDELAP SCREENS @ 16" OC.
- PROVIDE DECK CLOSURE PLATES AS REQ'D AT COLUMNS, DUCTS, & OTHER OPENINGS.
- STEEL STAIRS SHALL BE DESIGNED FOR 100 PSF LIVE LOAD. PROVIDE SHOP DRAWING SEALED BY A PROFESSIONAL ENGINEER LICENSED IN NORTH CAROLINA. SEE ARCH FOR DIMENSIONS.
- SEE 1/55 FOR MECHANICAL OPENINGS IN CMU BELOW MEZZANINE.

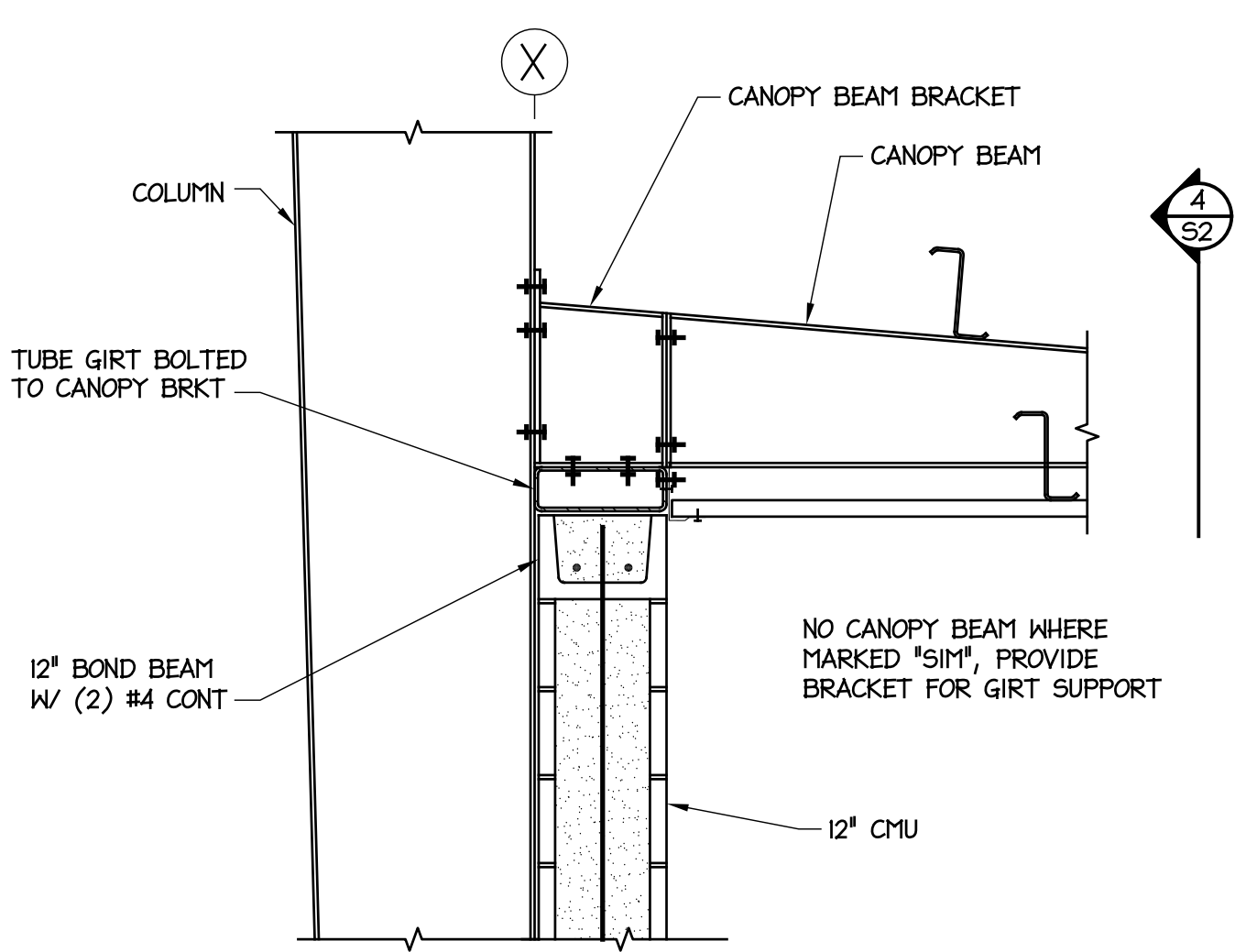
Designed by:
Michael Mountz
2ADE000035049A



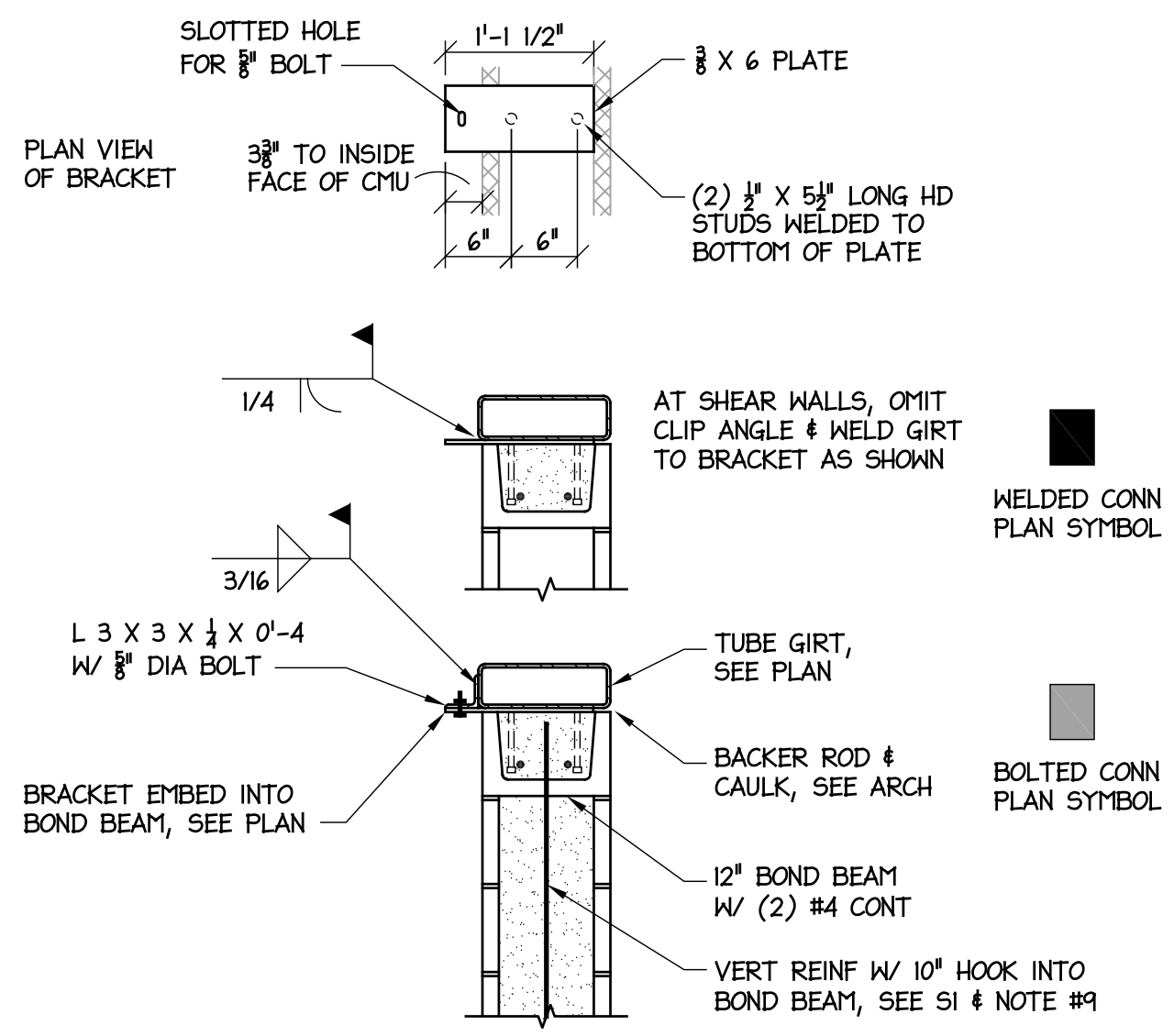
FACILITIES DESIGN ARCHITECTS & ENGINEERS
FACILITIES MANAGEMENT DIVISION, NC DOT
1 SOUTH WILMINGTON STREET
RALEIGH, NORTH CAROLINA 27601
PHONE 919/707-4640 FAX 919/716-0089



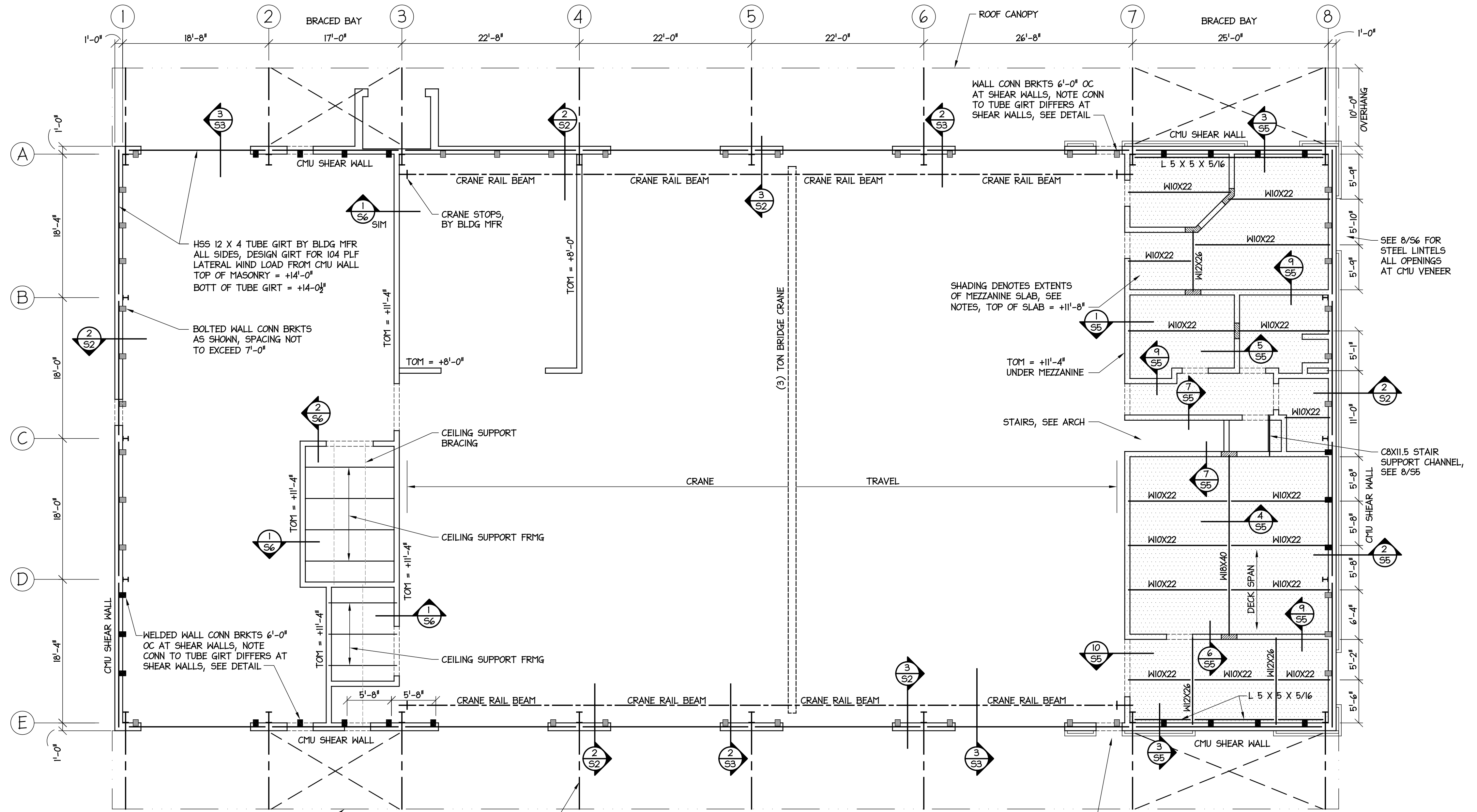
4 TUBE GIRT AT COLUMN
SCALE: 3/4" = 1'-0"



3 TUBE GIRT AT COLUMN
SCALE: 3/4" = 1'-0"



2 MASONRY CONN TO TUBE GIRT
SCALE: 3/4" = 1'-0"



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



CONSULTANT:

DRAWING TITLE / DESCRIPTION:
MEZZANINE FRAMING PLAN
FRAMING DETAILS

PROJECT TITLE:
Lumberton Equipment Sub-Shop
HIGHWAY DIVISION 6, NC DOT
ROBESON COUNTY, NORTH CAROLINA

STATE CONSTRUCTION ID.# 16-12916-01A

ASSET NUMBER:
CO.# = SITE.# BLDG.#
78 = 06 = 00

REVISIONS
NO. DATE

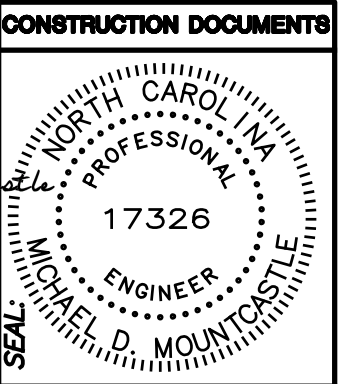
DATE ISSUED: 12-15-17
DRAWN BY: MDM
CHECKED BY: MDM
SHEET NO.

S2

NOTES:

- DESIGN METAL BLDG FOR 3 PSF COLLATERAL LOAD, OR ACTUAL EQUIPMENT HEIGHT, WHICHEVER IS GREATER. COORDINATE W/ MECH & PLUMBING PLANS.
- DESIGN METAL BLDG FOR 3 PSF SPINKLER LOAD IN ADDITION TO THE COLLATERAL LOAD. COORD W/ SPRINKLER SYSTEM DESIGN.
- MAXIMUM PRELIMINARY CRANE LOADS ARE GIVEN IN DETAIL 2/53. VERIFY ACTUAL LOADS W/ CRANE MFR.
- COORDINATE LOCATION OF CRANE RAIL ELECTRIFICATION & POWER FEED W/ OWNER & ELECTRICAL CONTRACTOR. GC COORD REQUIRED CRANE CLEARANCES W/ ALL TRADES.
- SEE SHEET G2 FOR DESIGN CRITERIA FOR PRE-ENGINEERED COMPONENTS & SYSTEMS.
- SEISMIC TRANSVERSE DIRECTION: STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE, W/ R = 3 PER TABLE 12.2-1 OF ASCE 7-05.
- SEISMIC LONGITUDINAL DIRECTION: ORDINARY REINFORCED MASONRY SHEAR WALLS, W/ R = 2.0 PER TABLE 12.2-1 OF ASCE 7-05.
- LIMIT HORIZONTAL DRIFT TO H/200.
- END WALLS ARE NOT EXPANDABLE.
- ALL STRUCTURAL STEEL SHALL BE SHOP PRIMED. GC TO PAINT ALL EXPOSED STRUCTURAL STEEL, SEE ARCH.
- HOLD FINAL STUD 1" OFF THE INSIDE FACE OF WALL GIRTS. DO NOT ATTACH STUD OR DRYWALL TO WALL GIRTS. EXTEND DRYWALL BEYOND LAST STUD TO INSIDE FACE OF GIRTS.

DocuSigned by:
Michael Montez
24CE8EB83C49A



DESIGNED BY:
FACILITIES DESIGN ARCHITECTS & ENGINEERS
FACILITIES MANAGEMENT DIVISION, INCOT
1 SOUTH WILMINGTON STREET
RALEIGH, NORTH CAROLINA 27601
PHONE 919/707-4640 FAX 919/707-0089



CONSULTANT:

DRAWING TITLE / DESCRIPTION:
ROOF FRAMING PLAN
FRAMING DETAILS

PROJECT TITLE:
Lumberton Equipment Sub-Shop
HIGHWAY DIVISION 6, NCDOT
ROBESON COUNTY, NORTH CAROLINA

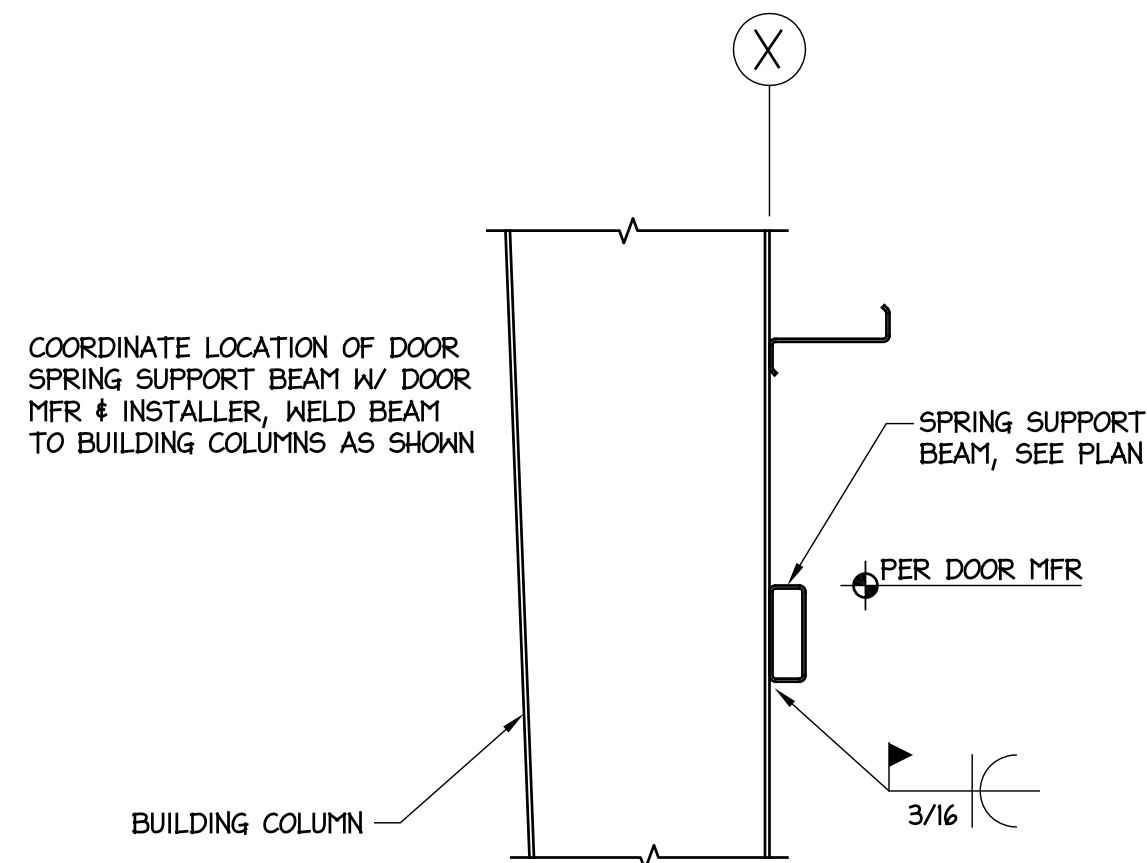
STATE CONSTRUCTION
ID.# 16-12916-01A

ASSET NUMBER:
CO.# SITE.# BLDG.#
78 06 00

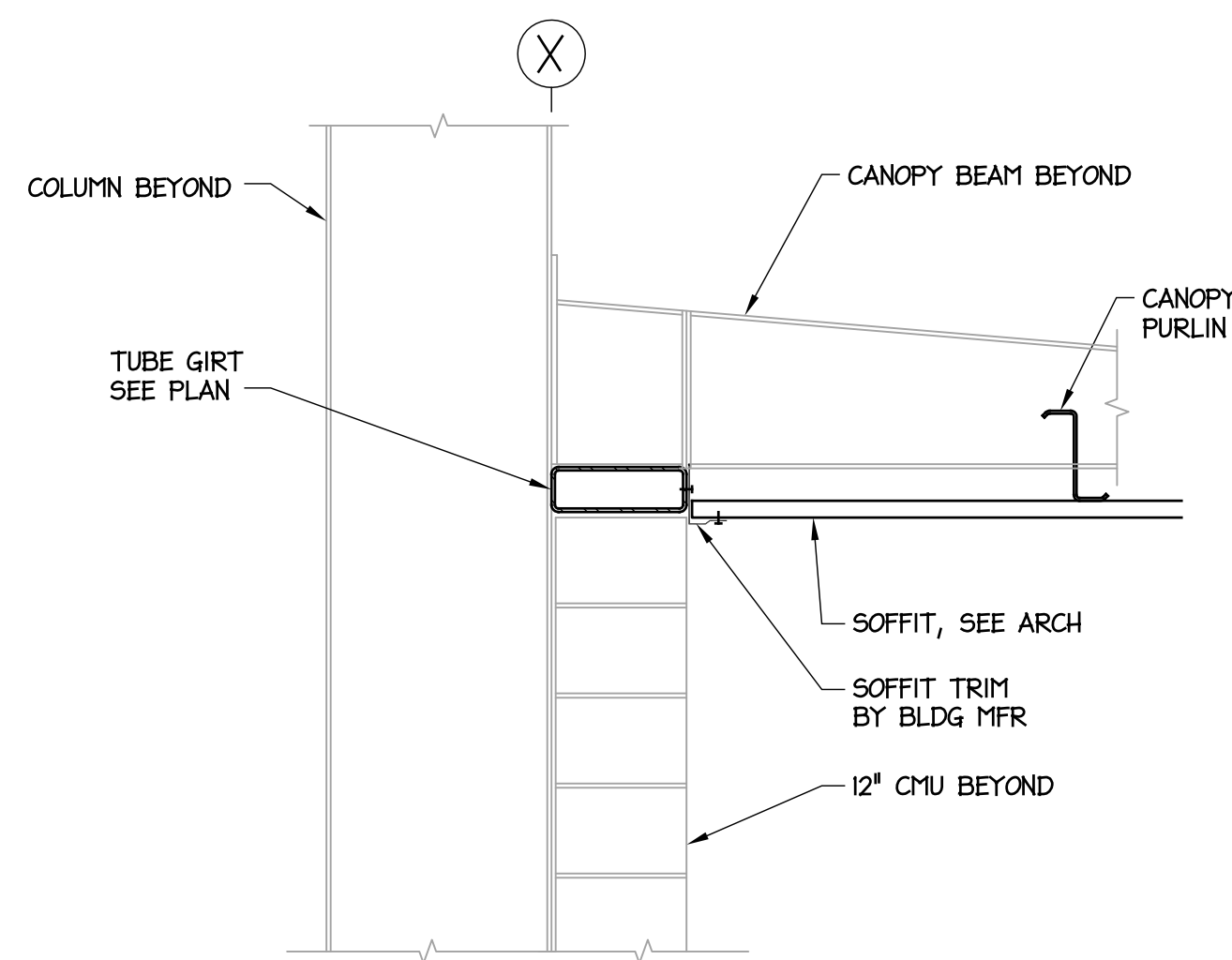
REVISIONS
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DATE ISSUED: 12-15-17
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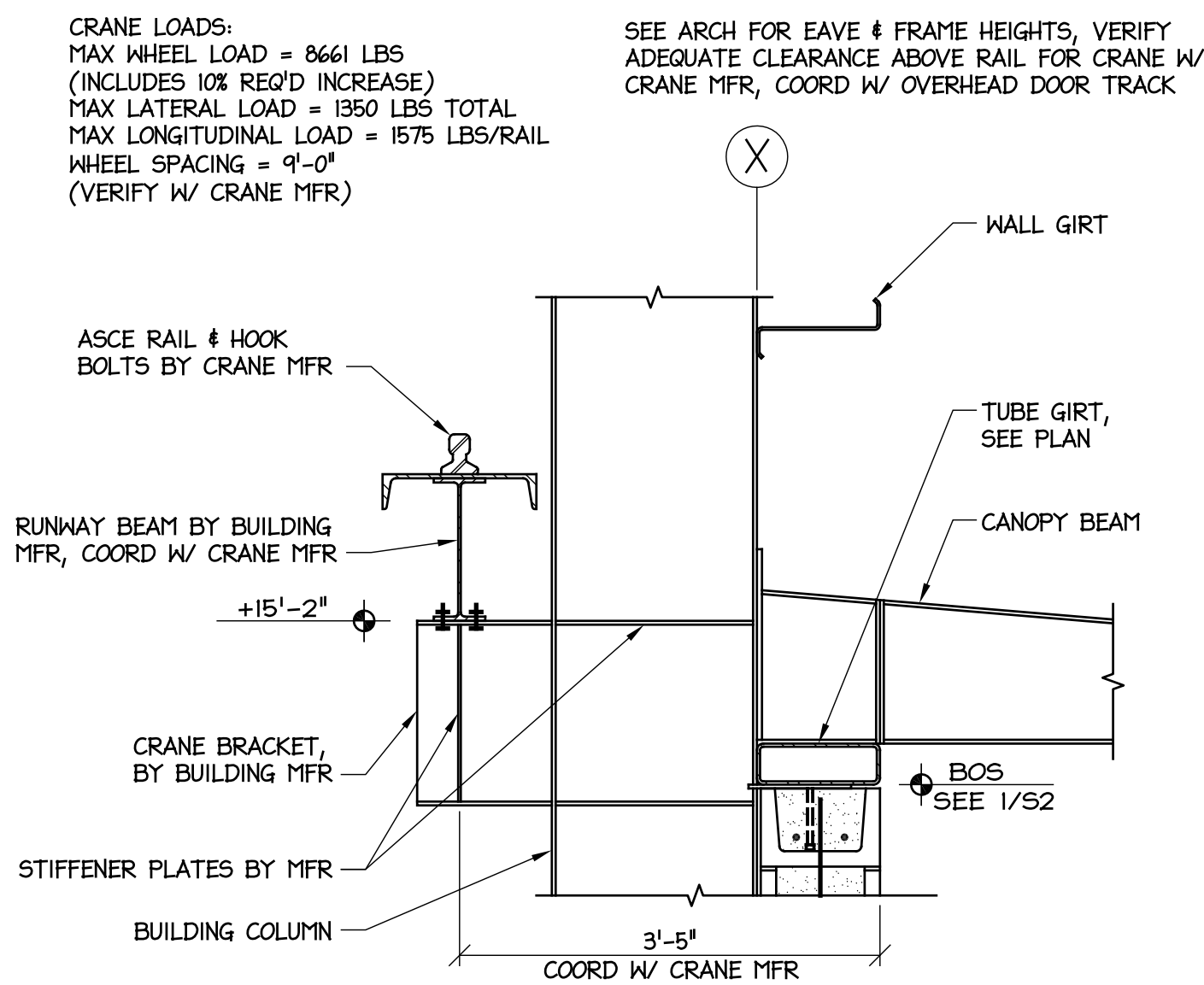
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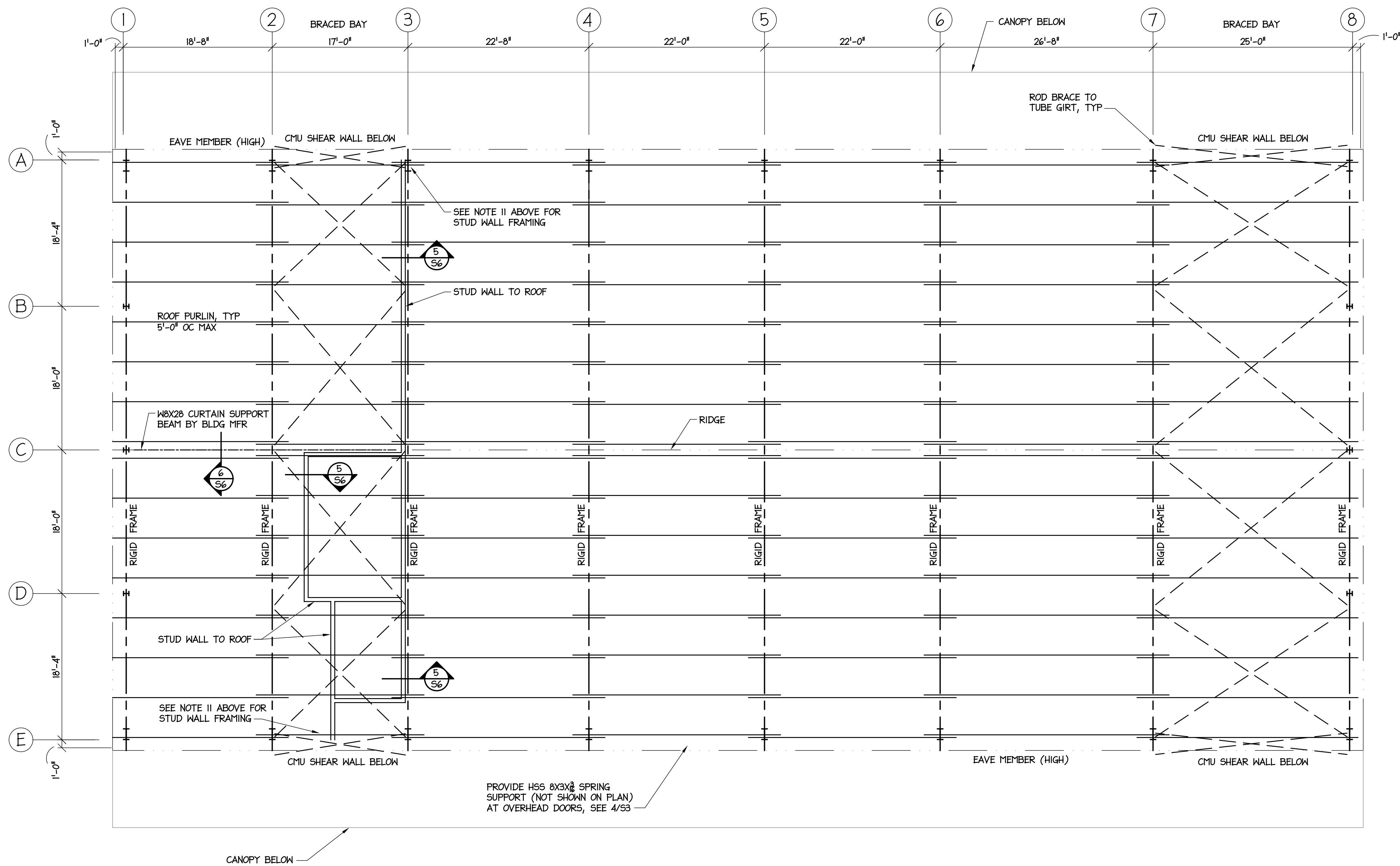
4 O/H DOOR SPRING SUPPORT
SCALE: 3/4" = 1'-0"



3 TUBE GIRTS AT OH DOORS
SCALE: 3/4" = 1'-0"



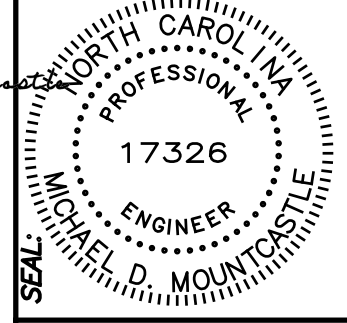
2 CRANE RAIL SUPPORT
SCALE: 3/4" = 1'-0"



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



DocuSigned by:
Michael Mountcastle
24DEBE8B53CA4A



DESIGNED BY:
FACILITIES DESIGN ARCHITECTS & ENGINEERS
FACILITIES MANAGEMENT DIVISION, NCDOT
1 SOUTH WILMINGTON STREET
RALEIGH, NORTH CAROLINA 27601
PHONE 919/707-4600 FAX 919/707-0099



CONSULTANT:

DRAWING TITLE / DESCRIPTION:
MEZZANINE & FRAMING DETAILS

PROJECT TITLE:
Lumberton Equipment Sub-Shop
HIGHWAY DIVISION 6, NCDOT
ROBESON COUNTY, NORTH CAROLINA

STATE CONSTRUCTION ID.# 16-12916-01A

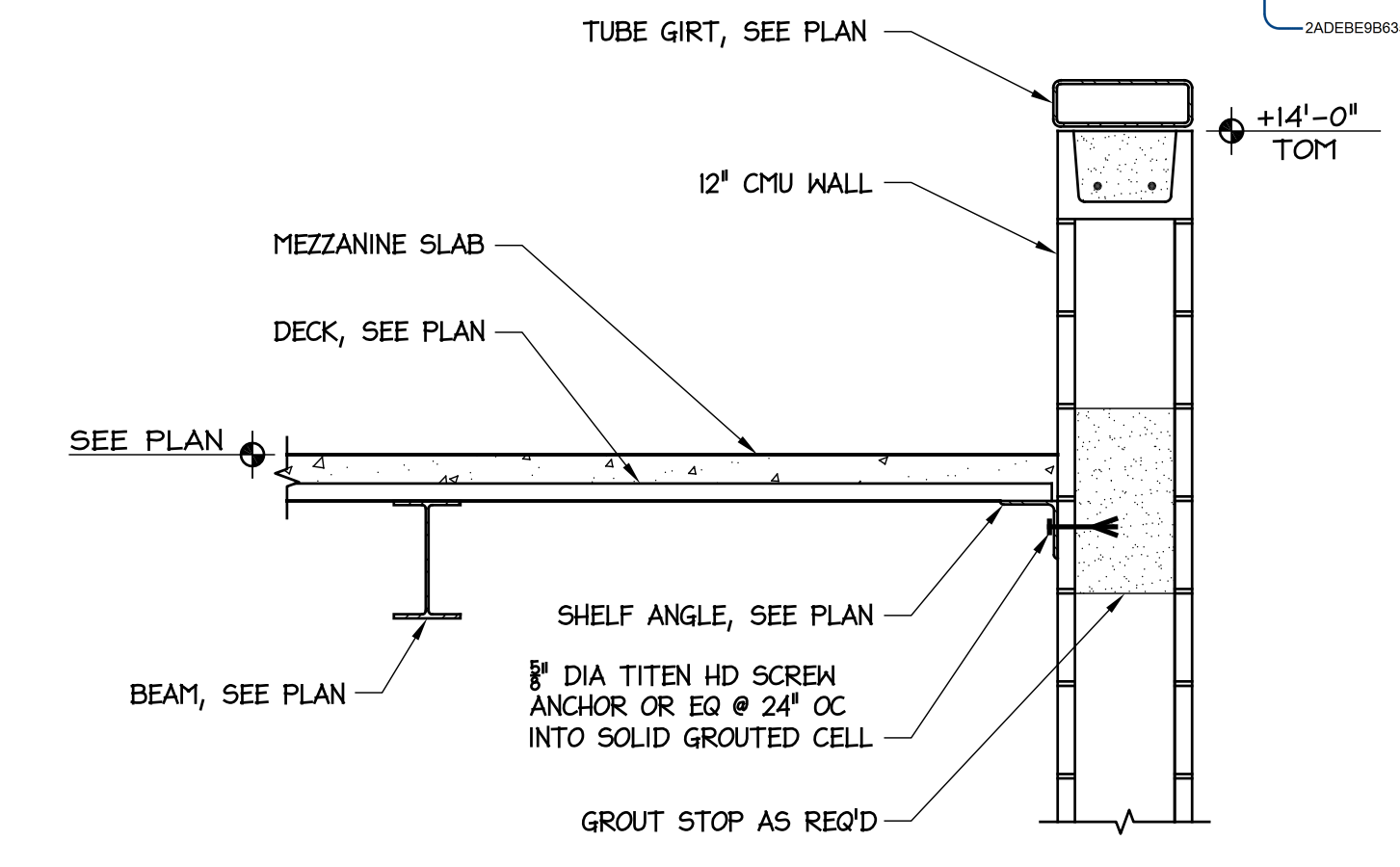
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REVISIONS
NO. DATE

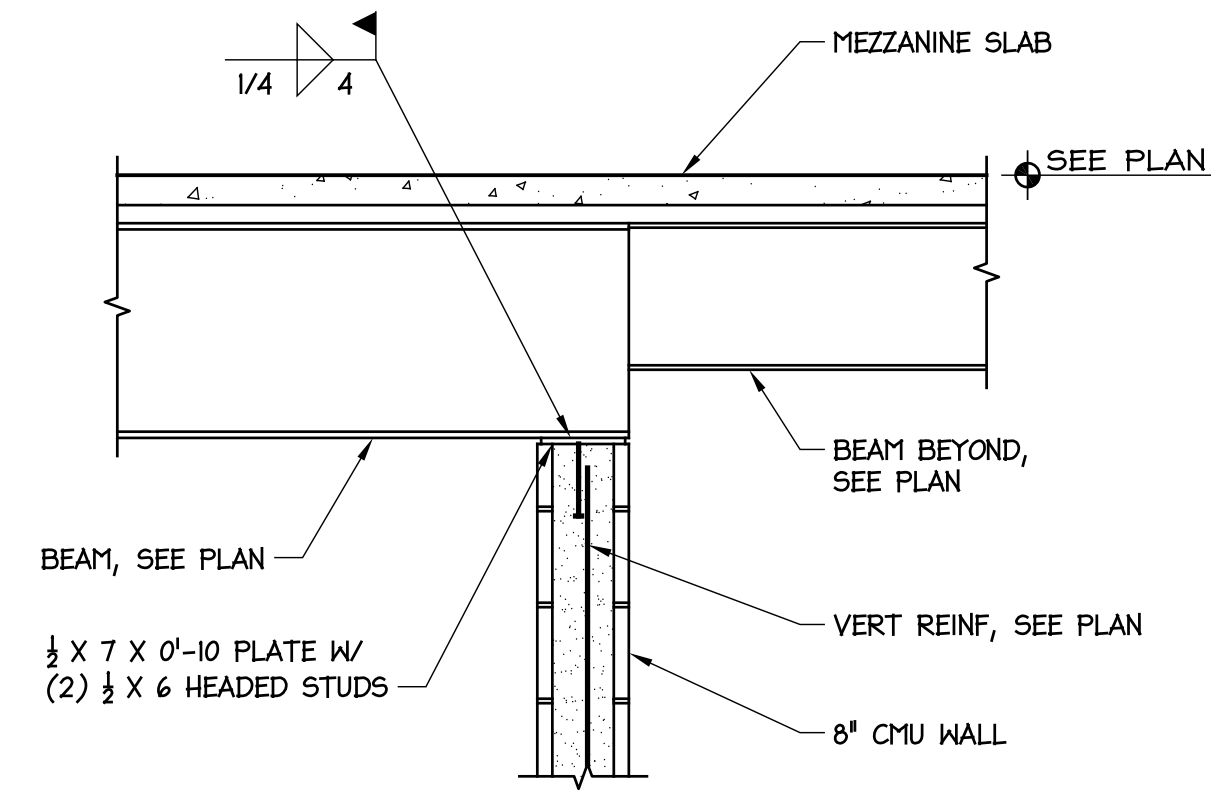
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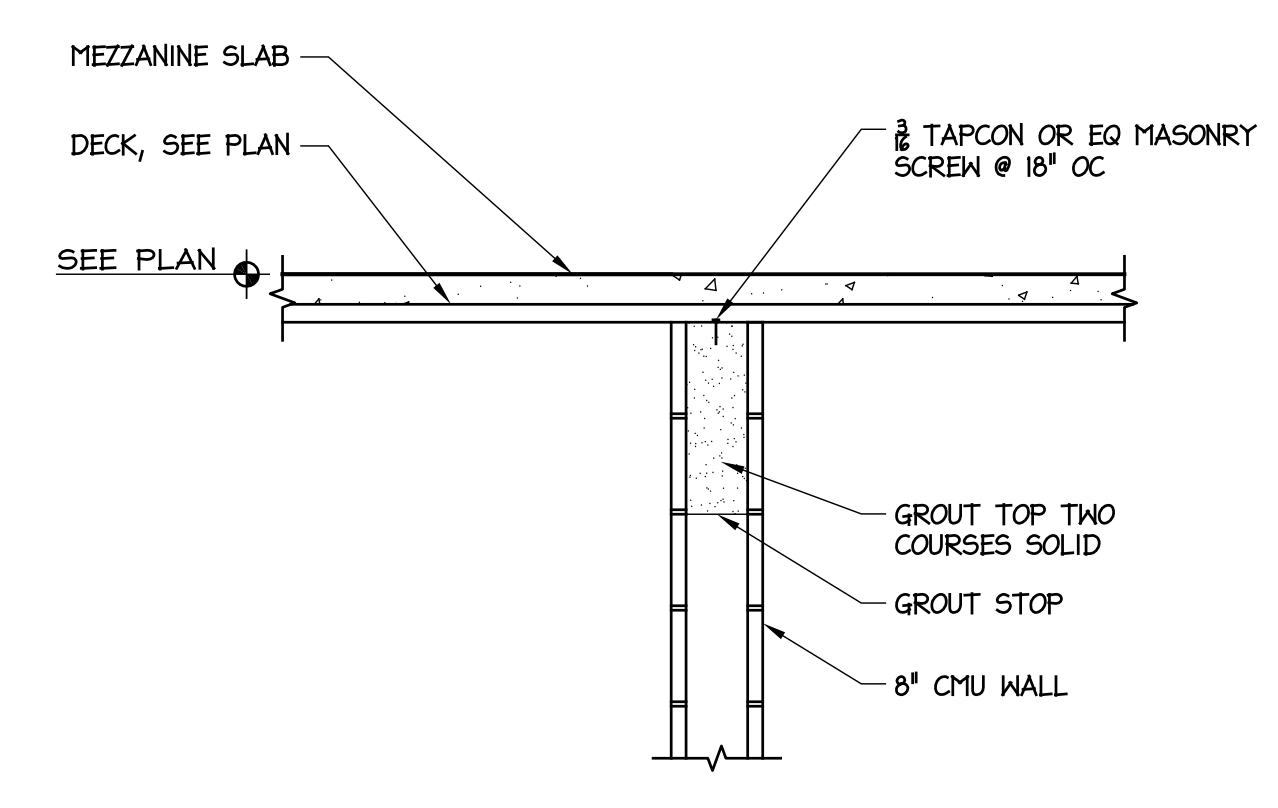
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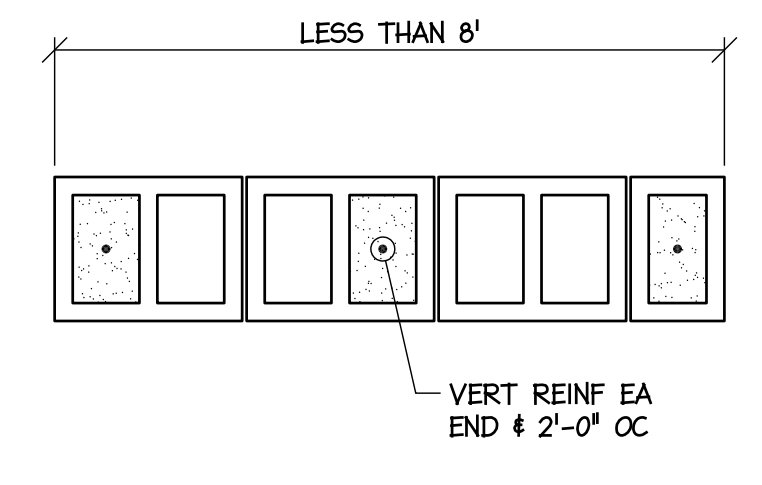
3 MEZZANINE EDGE AT EXT WALL
S5 SCALE: 3/4" = 1'-0"



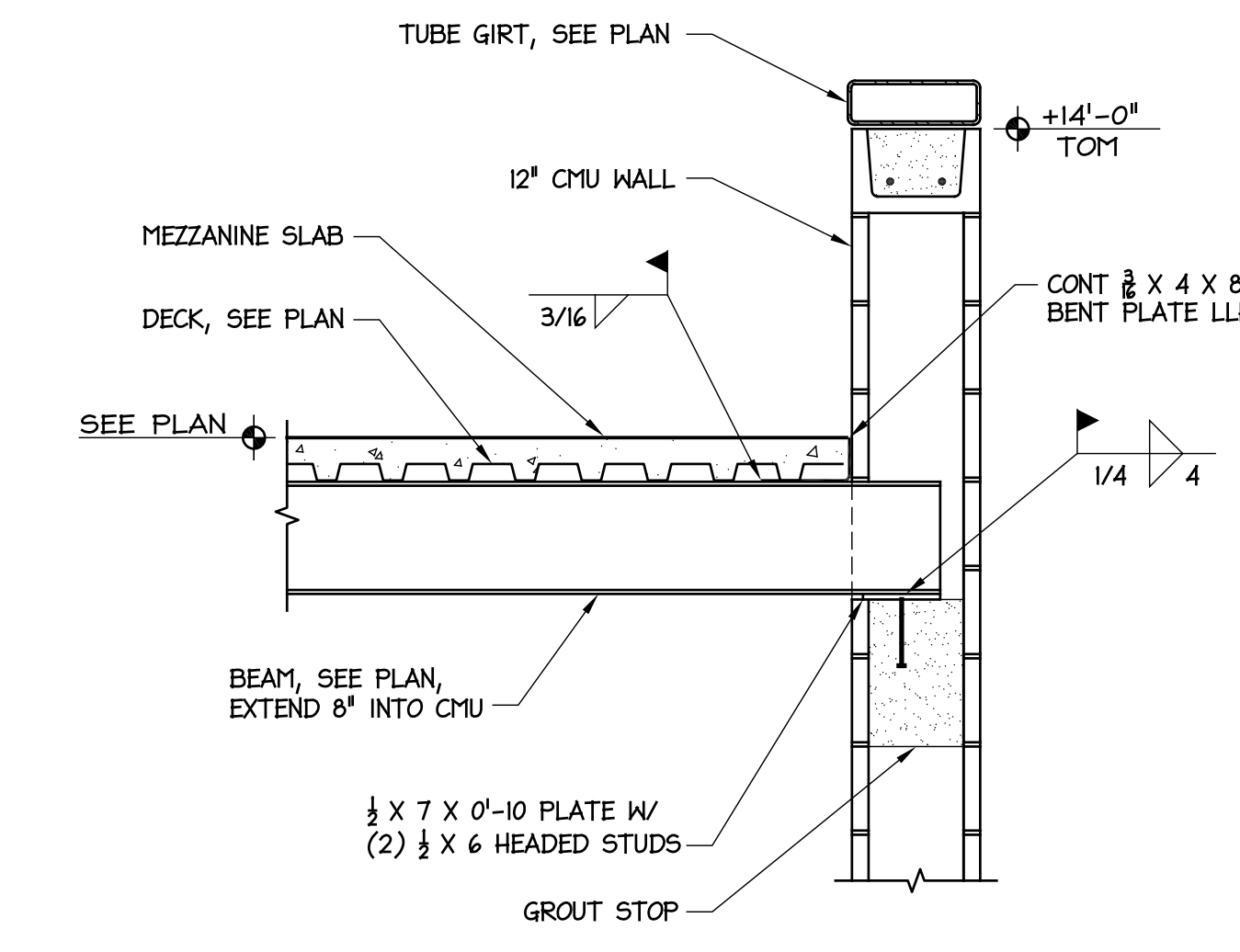
6 GIRDER BEARING ON MASONRY
S5 SCALE: 3/4" = 1'-0"



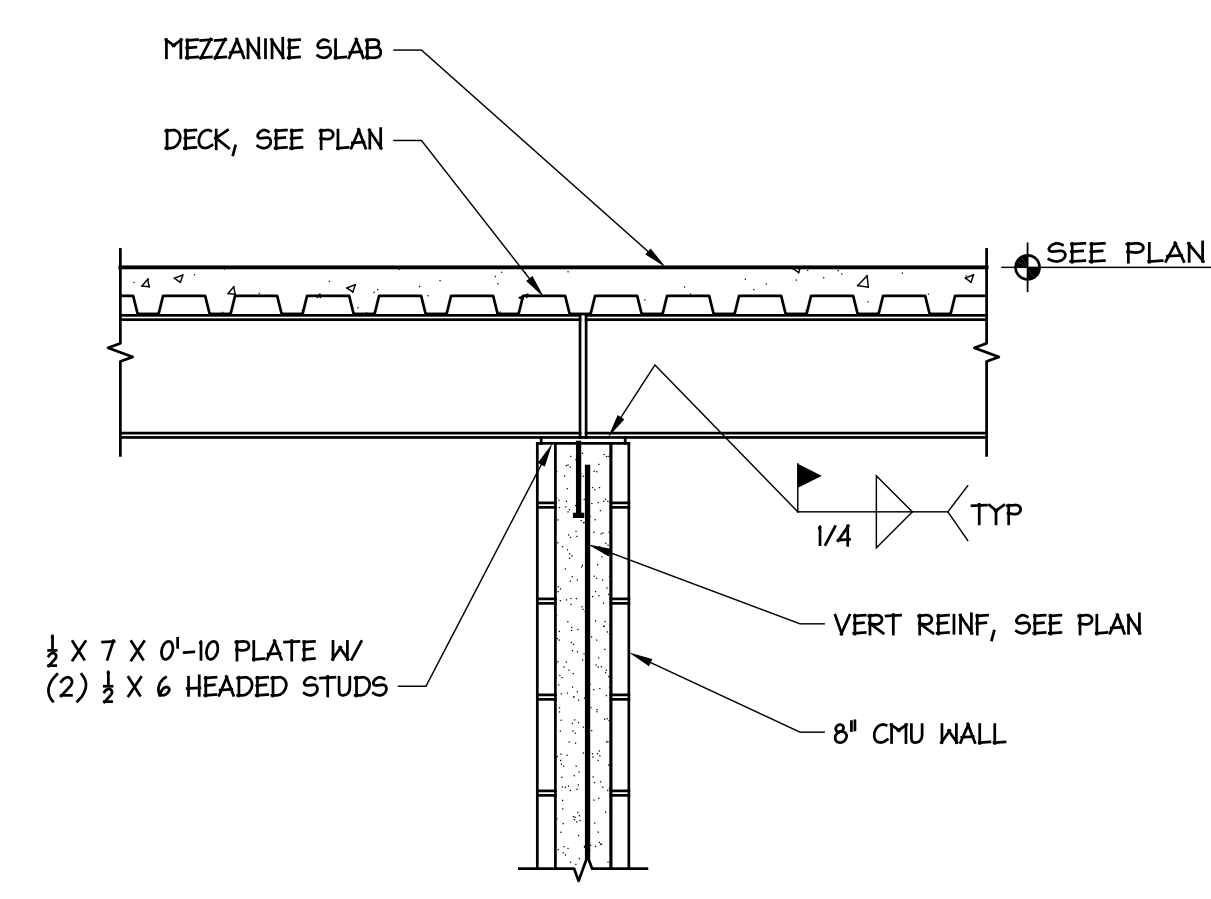
9 DECK BEARING ON MASONRY
S5 SCALE: 3/4" = 1'-0"



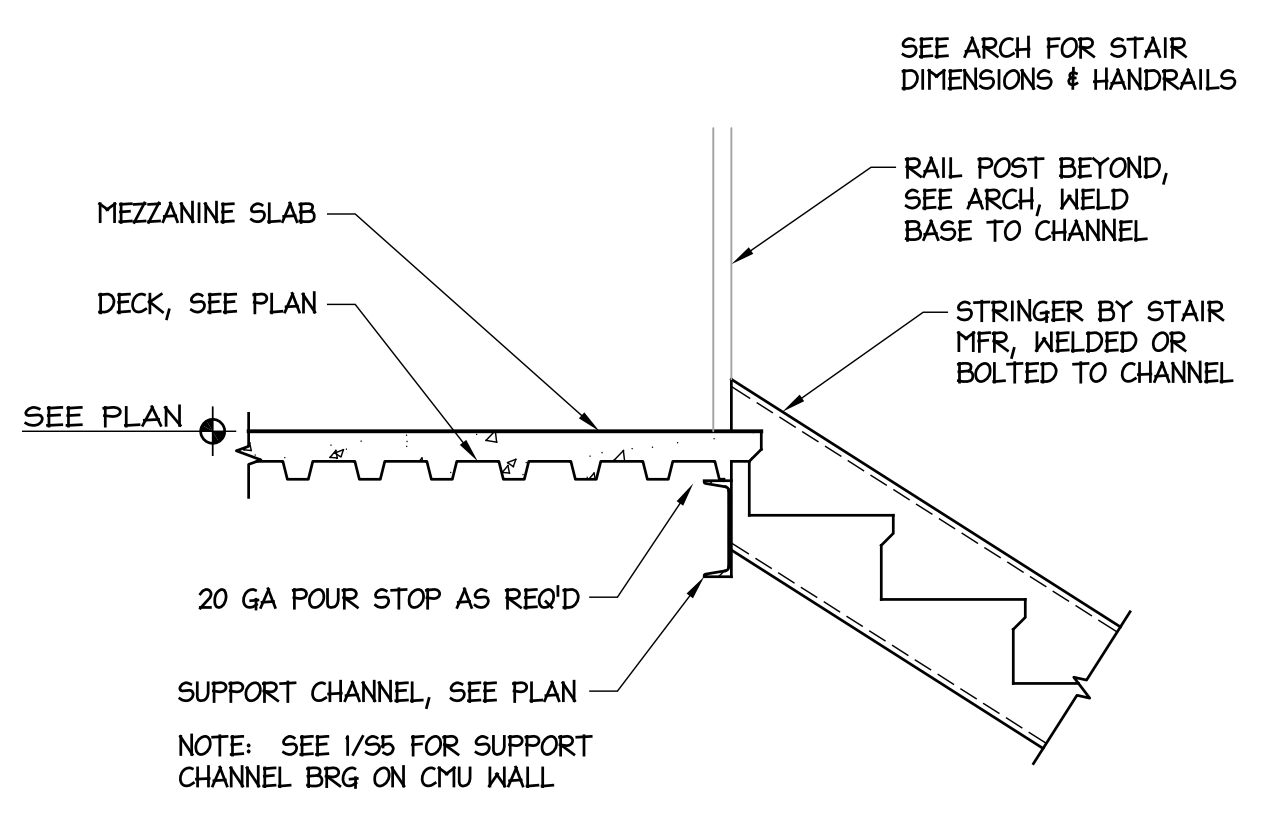
12 PLAN DETAIL MASONRY REINF
S5 SCALE: 3/4" = 1'-0"



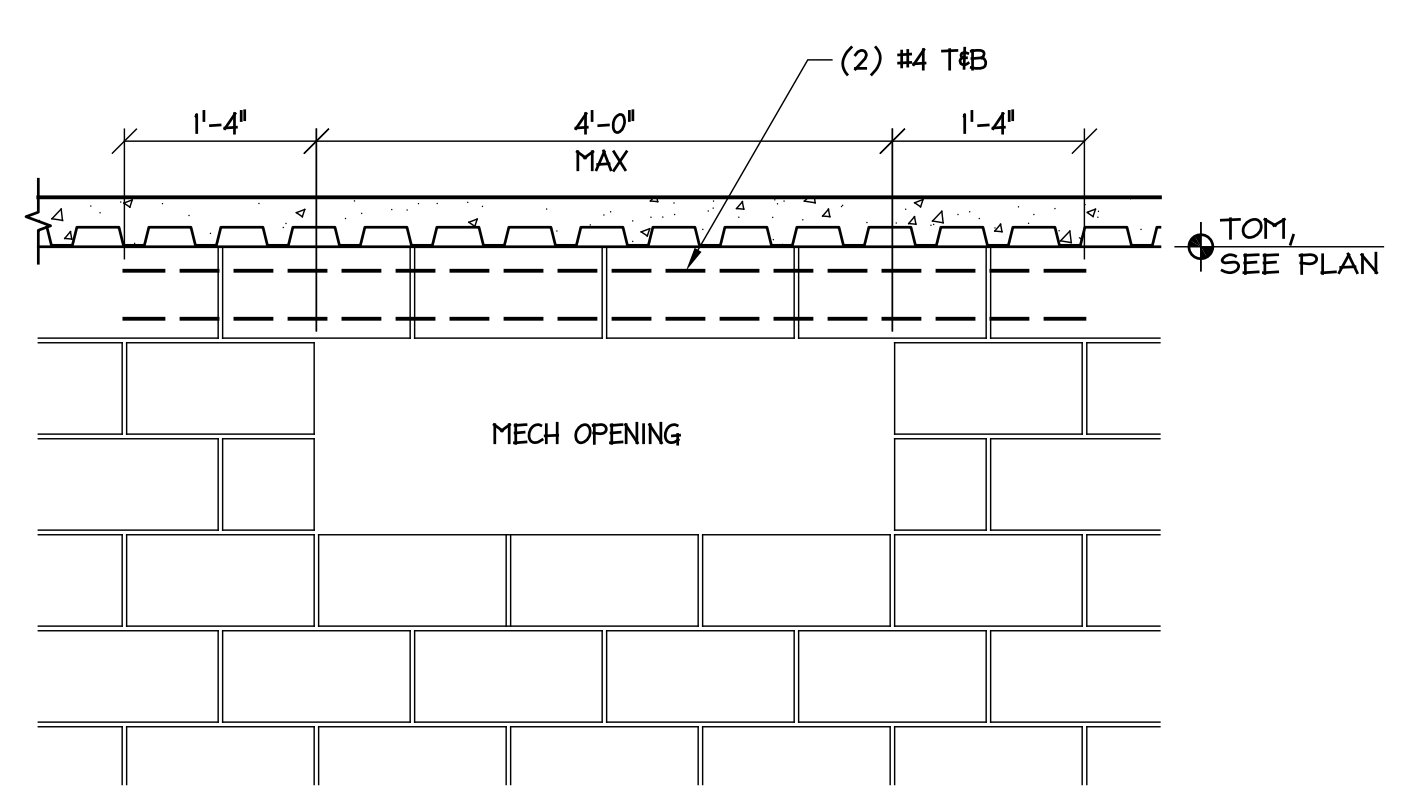
2 MEZZANINE EDGE AT EXT WALL
S5 SCALE: 3/4" = 1'-0"



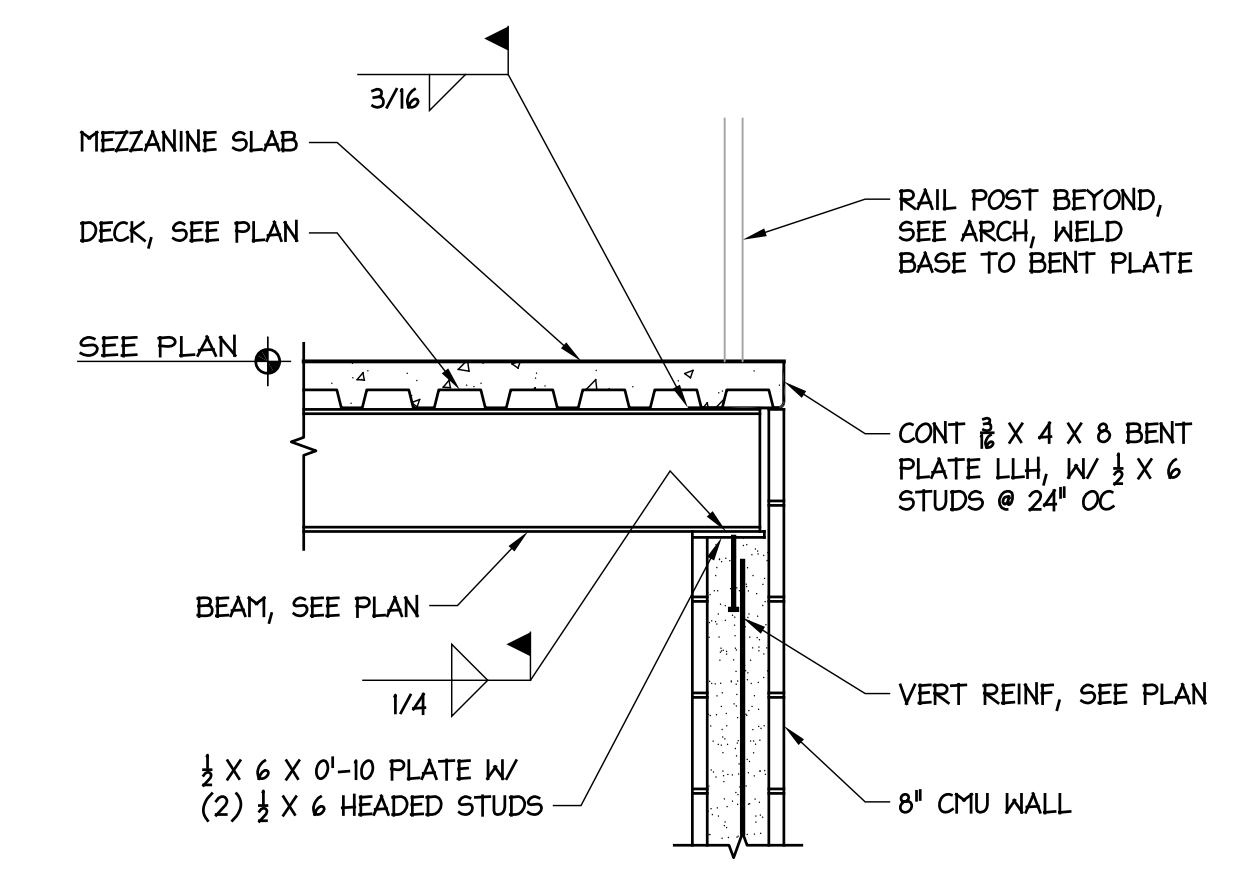
5 BEAM BEARING ON MASONRY
S5 SCALE: 3/4" = 1'-0"



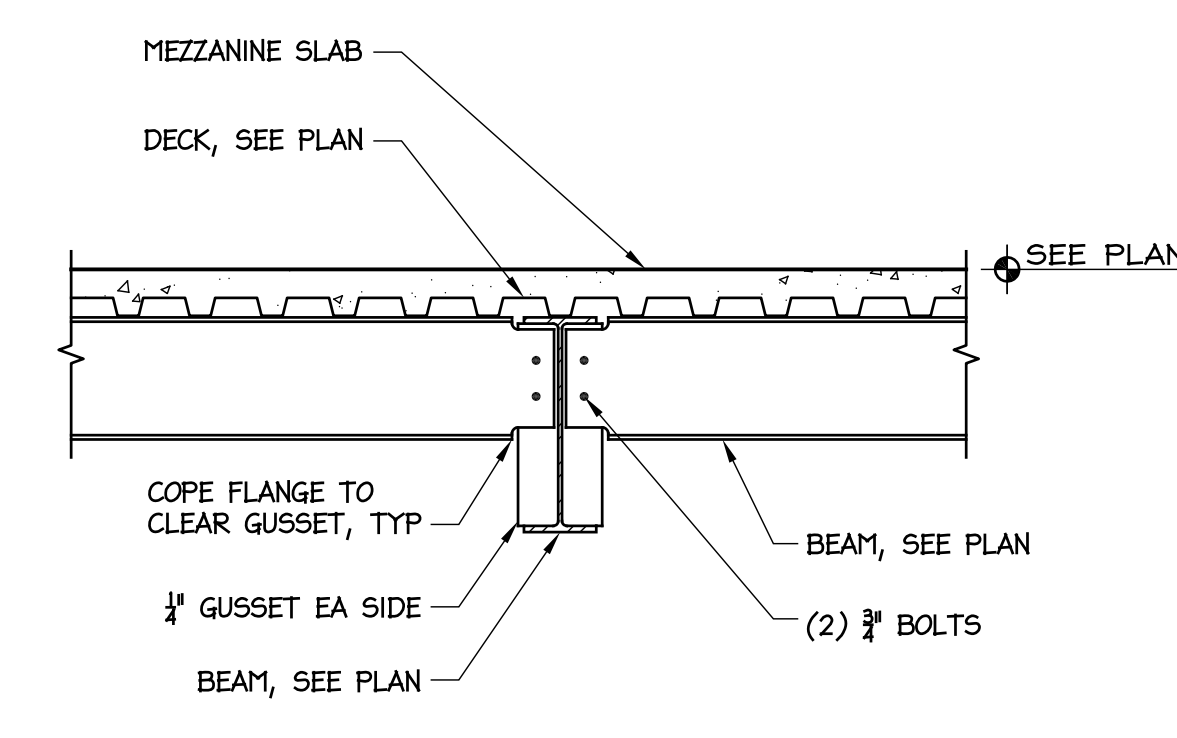
8 UPPER STAIR SUPPORT
S5 SCALE: 3/4" = 1'-0"



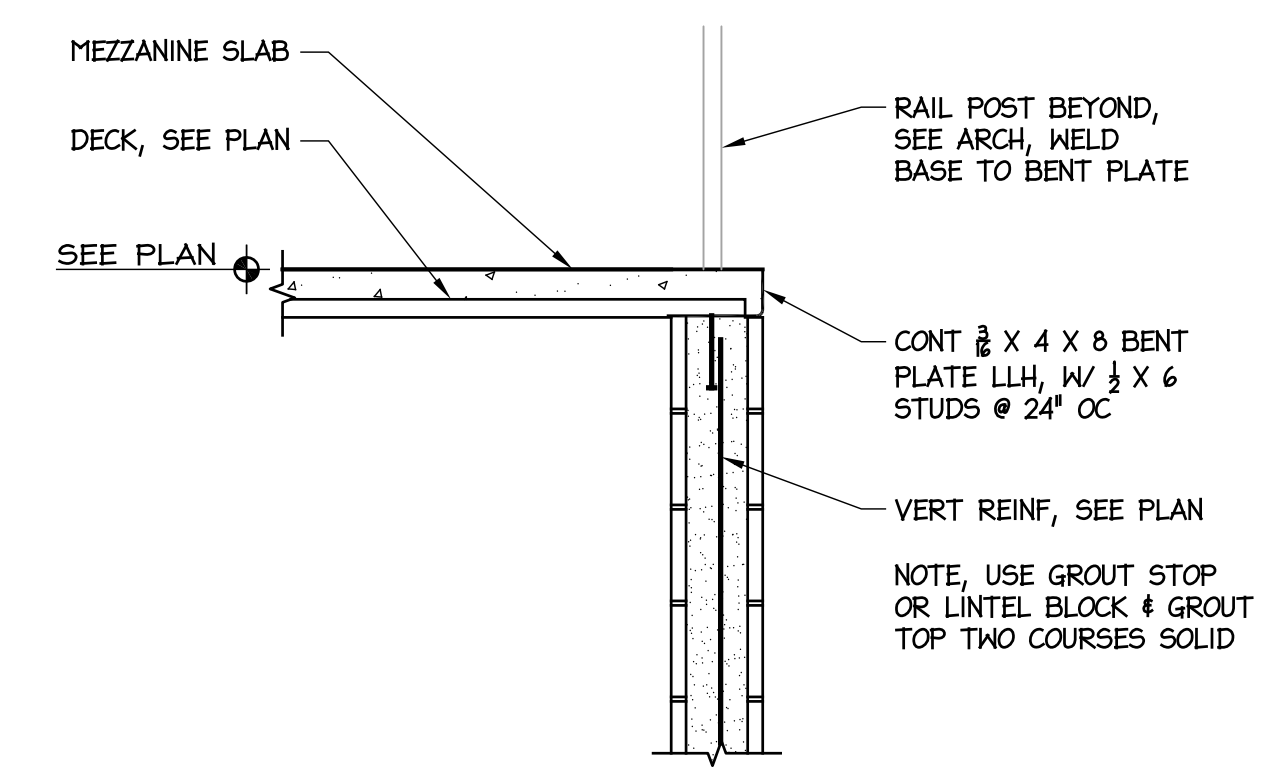
11 MECHANICAL OPENING AT MEZZ
S5 SCALE: 3/4" = 1'-0"



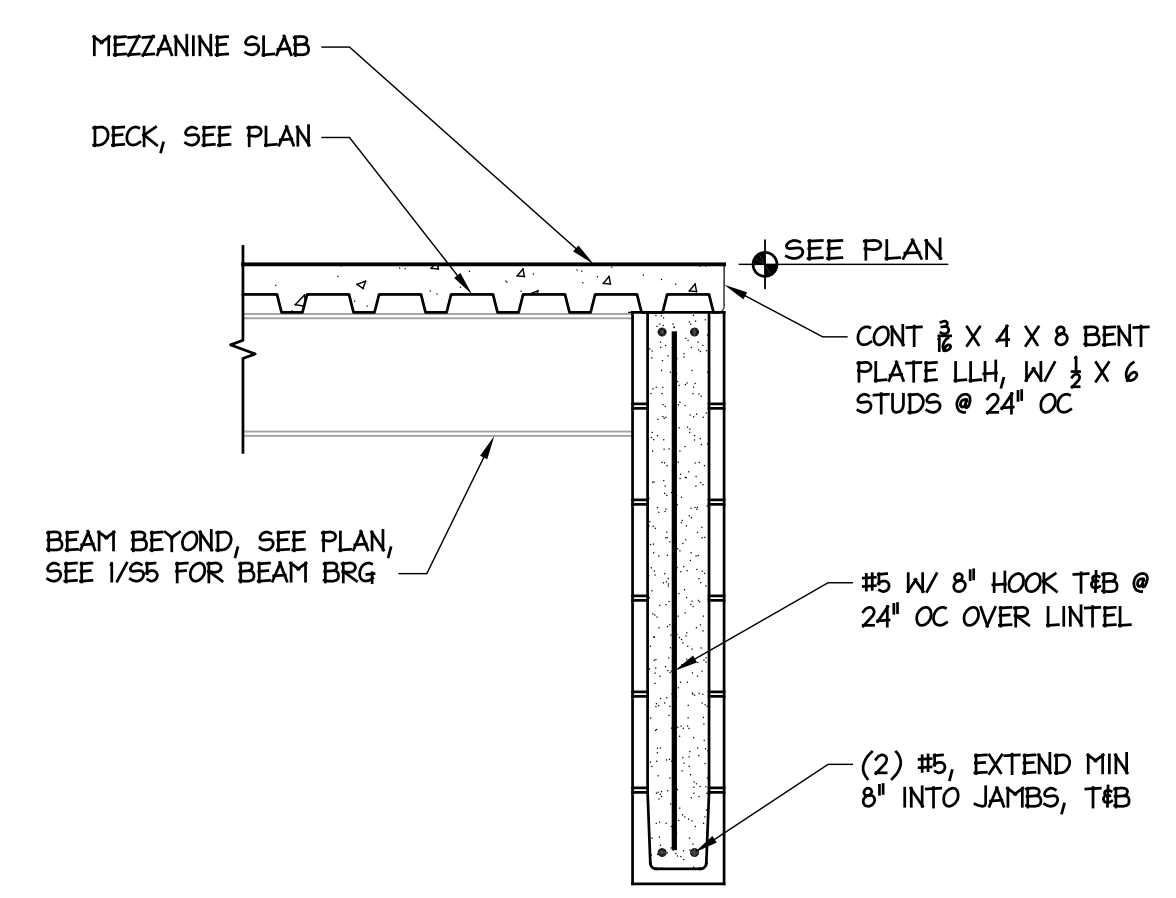
1 BEAM BEARING ON MASONRY
S5 SCALE: 3/4" = 1'-0"



4 BEAM BEARING ON GIRDER
S5 SCALE: 3/4" = 1'-0"



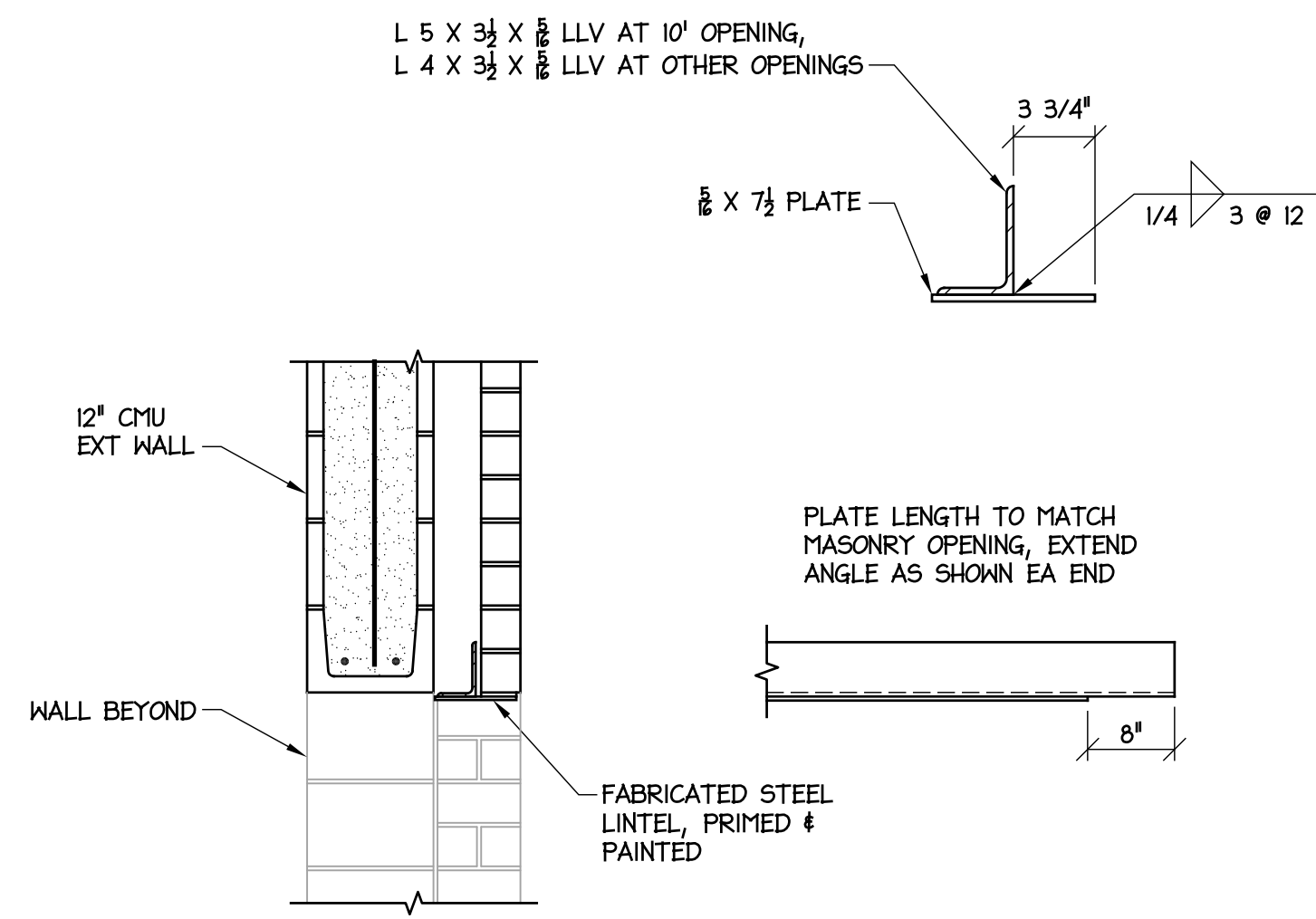
7 SLAB EDGE AT STAIRS
S5 SCALE: 3/4" = 1'-0"



10 BEAM BEARING OVER LINTEL
S5 SCALE: 3/4" = 1'-0"

GENERAL NOTES:

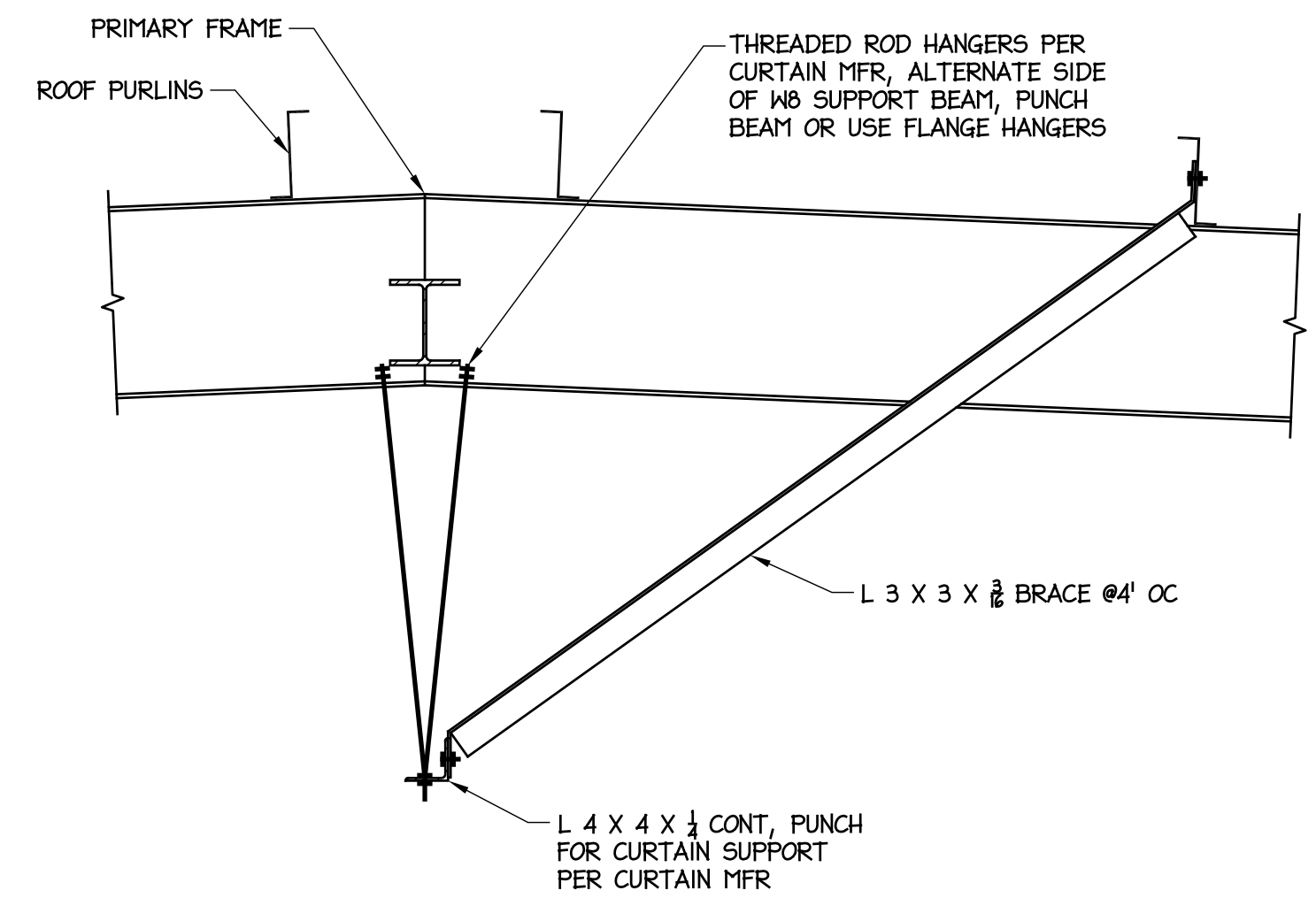
- A. GENERAL**
- See specifications for further information. In case of conflict between specifications & drawings, contact architect for resolution.
 - Contractor is responsible for coordination & distribution of all changes in contract documents to all subcontractors.
 - Contractor shall verify all field conditions, elevations, & dimensions prior to construction. Do not scale from plans.
 - Means & methods of construction, including temporary bracing, shoring, & jobsite safety, are the responsibility of the contractor.
 - Structural frame shall be braced until erection is complete & permanent connections & bracing are installed.
 - Provide silt fence or other erosion & sediment control measures as required.
 - If demolition is included in project, sawcut all edges of existing slab and asphalt to remain adjacent to new construction.
- B. FOUNDATION**
- Footing excavations shall be reviewed by a geotechnical engineer or construction testing agency approved by the architect or engineer.
 - Footing depths shown are based on geotechnical investigation or presumptive soil properties. Soft or unsuitable soils shall be removed & replaced with suitable fill as specified.
 - Under slabs & footings, remove all topsoil, trash, & organic material, & replace with select fill compacted to 95% maximum density as measured by the Standard Proctor Method (ASTM 698) in 8 inch maximum lifts. The top 12" shall be compacted to 98% maximum density.
 - Contractor is responsible for shoring while excavating near existing structures.
 - Remove existing construction, including foundations, as indicated on architectural plans and replace w/ compacted fill for new construction.
- C. CONCRETE**
- Compressive strength of concrete shall be 3000 psi for footings & 4000 psi for walls and slabs, unless otherwise noted.
 - Coordinate floor slopes and depressions with arch and plumbing plans. Maintain specified slab thickness below depressed or sloped areas.
 - If not specified on plans, provide sawed slab control joints in slabs on grade spaced at not more than 48 times the slab thickness.
 - Reinforcing steel shall meet ASTM A 615, Grade 60.
 - Welded wire reinforcement shall conform to ASTM A 185 & A 82.
 - Grout under all columns & beam bearing plates with non-shrink, non-metallic grout which meets ASTM C 1107.
 - Clear distance from face of concrete to main reinforcing:
 - Suspended slabs and joists: 1"
 - Grade beams, pedestals, columns, walls: 2"
 - Footings & walls cast against earth: 3"
 - Provide (2) #4 x 48" diagonal corner bars at center of slab at all corners of floor slab openings.
 - Lap all reinforcement splices 48 bar diameters, UON.
 - Detailing, fabrication, & installation of reinforcing steel shall conform to ACI "Manual of Standard Practice for Detailing Reinforced Concrete Structures" (ACI 315).
 - Workmanship, tolerances, & concrete placement shall conform to "Standard Specifications for Structural Concrete" (ACI 301).
 - Chamfer exposed edges of concrete 3/4", UON.
 - Anchor bolts shall conform to ASTM F 1554, Grade 36.
 - See architectural plans for floor finishes. Coordinate slab curing & sealing compounds with flooring materials.
- D. STRUCTURAL STEEL**
- Structural steel shall conform to ASTM A 572 except: round pipe shall be A 53, Grade B; square and rectangular tube shall be A 500, Grade B; and misc metals for minor components may be ASTM A 36.
 - Steel construction shall conform to "Manual of Steel Construction, Allowable Stress Design," Ninth Edition.
 - Connection bolts shall be 3/4" ASTM A 325, UON. If connection loads not specified, design for loads shown in AISC beam span tables. Assume bearing type connections with threads included in the shear plane.
 - Cutting of structural members shall have all re-entrant corners shaped & notch free to a minimum 1/2" radius.
 - Unless otherwise designed by fabricator, weld material shall be E70XX.
 - See architectural & other drawings for miscellaneous steel not shown on structural plans.
 - Provide cap plate top of all tube & pipe columns, UON.
 - All field welds shall be cleaned & painted with a rust inhibiting paint compatible with the shop coat.
 - Beams & lintels shall bear 8" minimum on masonry, UON.
- E. MASONRY**
- Unless otherwise shown, provide control joints in concrete masonry walls at approx 20' OC, & brick expansion joints at approx 40' OC. Coord w/ architect.
 - Use preformed neoprene gasket material at all CMU control joints.
 - Grout all reinforced cells w/ 2000 psi grout meeting ASTM C 476. Consolidate grout by mechanical vibration and reconsolidate by mechanical vibration after initial water loss and settlement has occurred.
 - Masonry shall be laid in running bond with type S mortar.
 - Reinforce all CMU walls with 9 gauge ladder type joint reinforcement @ 16" OC vertical (every other course).



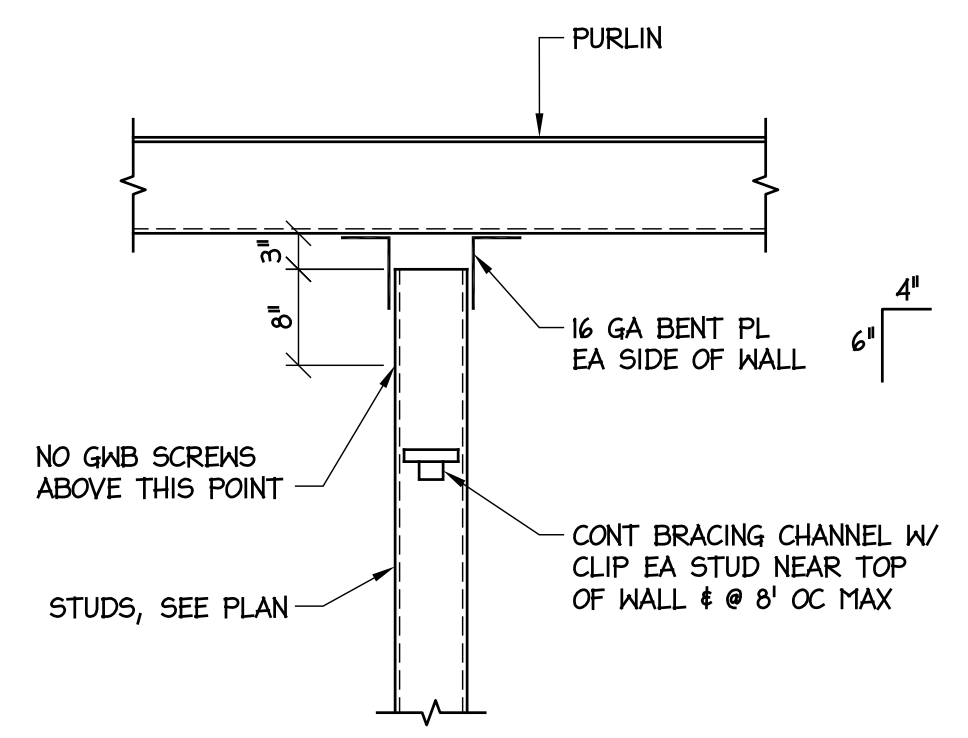
8 LINTEL AT CMU VENEER
SCALE: 3/4" = 1'-0"

MASONRY LINTEL SCHEDULE		
OPENING	STEEL LINTEL	MIN BEARING
0'-0" TO 1'-4"	PLATE 3/8 X 3-1/2	8"
1'-4" TO 4'-0"	L 3-1/2 X 3 1/2 X 5/16	8"
4'-0" TO 6'-0"	L 4 X 3 1/2 X 5/16 LLV	8"
6'-0" TO 8'-0"	L 5 X 3 1/2 X 5/16 LLV	8"
SIZES ABOVE ARE PER 4" OF WALL THICKNESS		
OPENING	CMU LINTEL	MIN BEARING
0'-0" TO 1'-4"	8" LINTEL W/ (2) #4 BOTTOM	8"
1'-4" TO 4'-0"	8" LINTEL W/ (2) #5 BOTTOM	8"
4'-0" TO 6'-0"	8" LINTEL W/ (2) #5 TOP & BOTTOM	8"
6'-0" TO 8'-0"	16" LINTEL W/ (2) #5 TOP & BOTTOM	1'-4"
FOR 10" OR 12" CMU WALL THICKNESS, ADD ANOTHER BAR IN ADDITION TO REINF SHOWN		
1. COORDINATE LINTEL SIZES & LOCATIONS W/ ARCHITECTURAL & MECHANICAL PLANS. ALL MECHANICAL OPENINGS SHALL BE PROVIDED W/ LINTELS AS SPECIFIED HEREIN. 2. CMU LINTEL SHALL BE MINIMUM DEPTH INDICATED & FILLED W/ 3000 PSI GROUT. 3. SEE ARCHITECTURAL PLANS FOR REQUIRED CLOSURE PLATES UNDER STEEL LINTELS. 4. PROVIDE DONEL W/ STD HOOK TO MATCH VERT WALL REINF AT CMU LINTELS. WHERE VERT WALL REINF OCCURS AT STEEL LINTEL, WELD VERT DONEL TO LINTEL. 5. THIS SCHEDULE APPLIES TO LINTELS NOT SPECIFIED ON PLANS. LINTEL SIZES SHOWN ON PLANS TAKE PRECEDENCE OVER SIZES SPECIFIED ABOVE.		

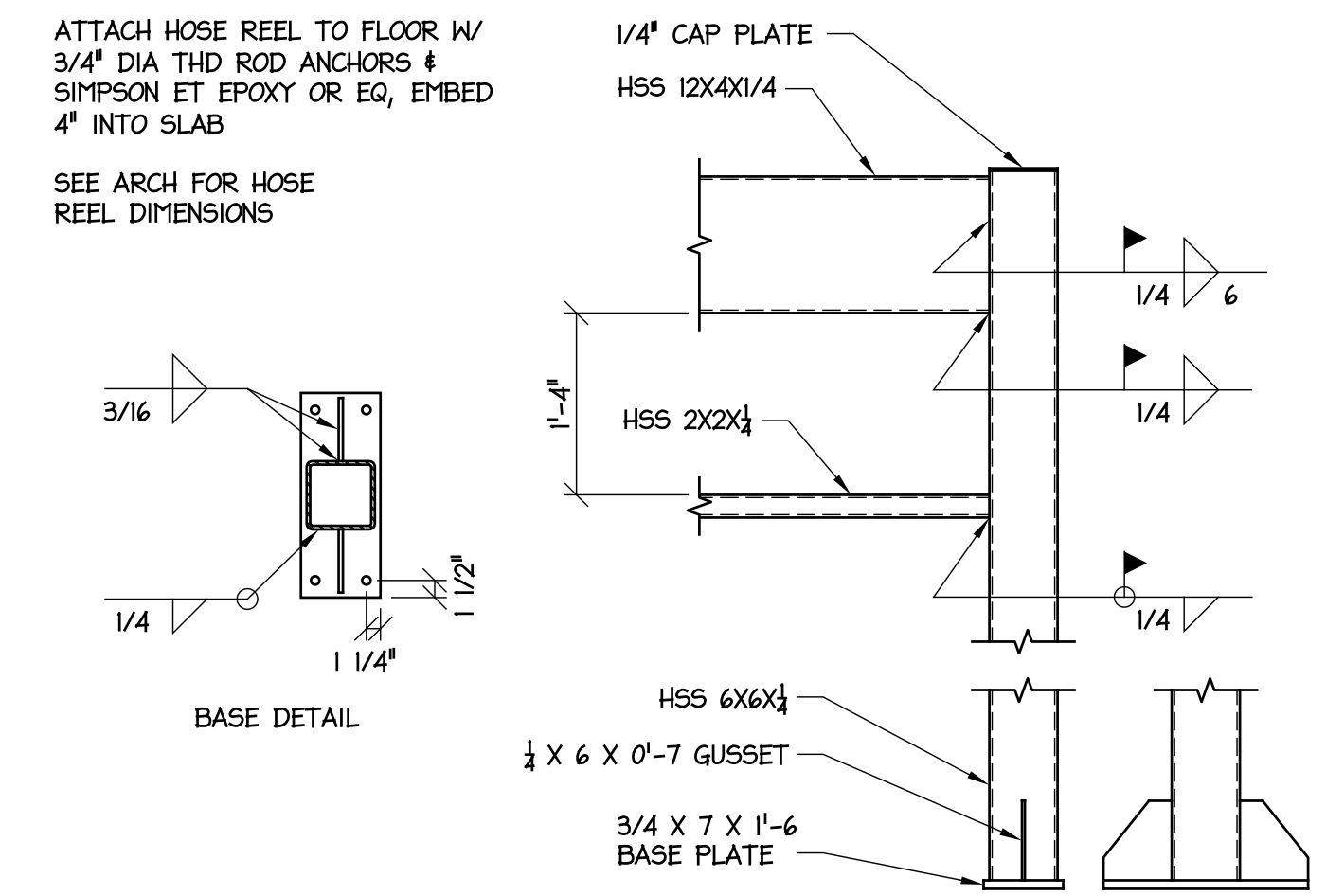
7 BOLLARD AT COLUMN FOOTING
SCALE: 3/4" = 1'-0"



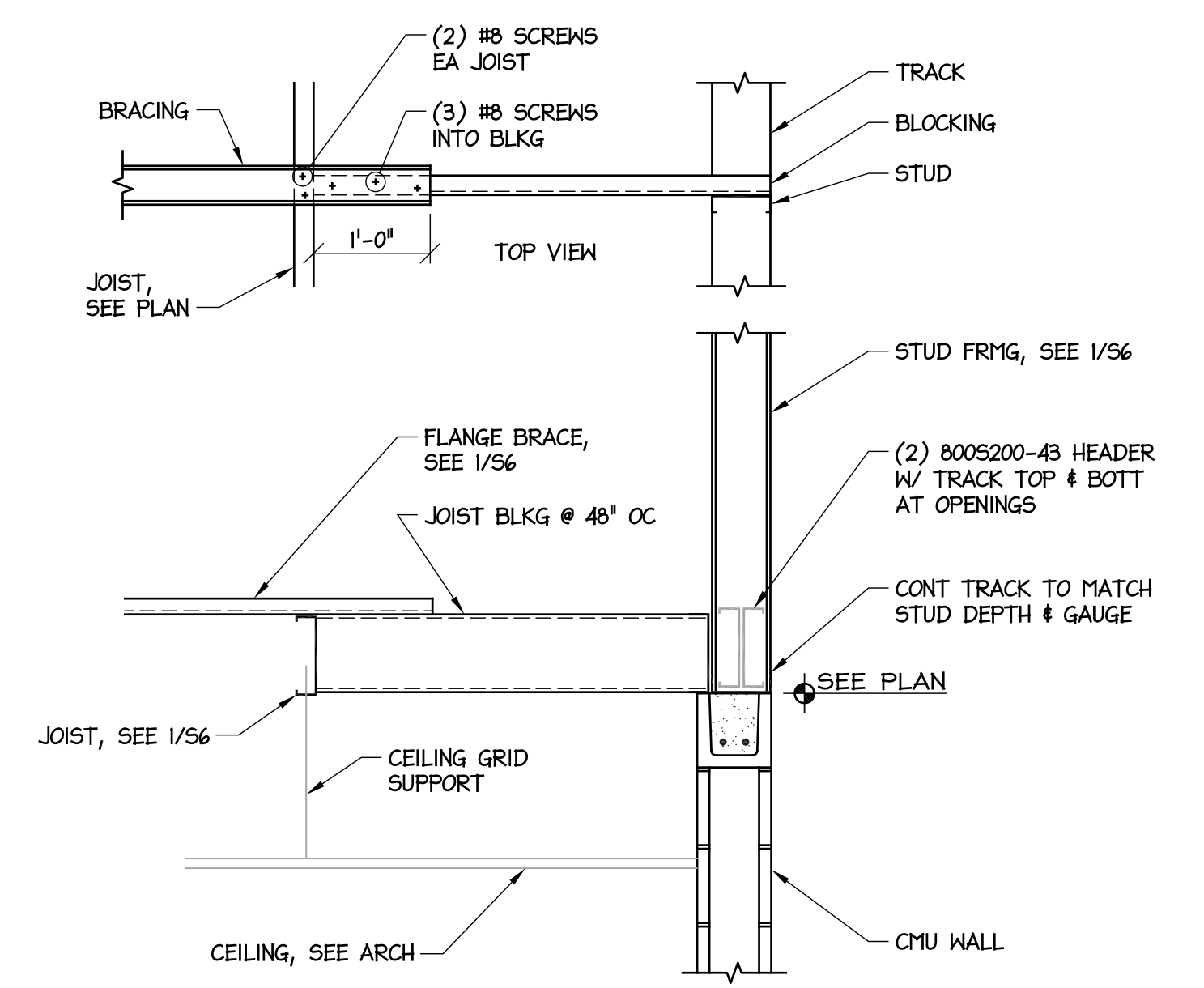
6 CURTAIN SUPPORT FRAMING
SCALE: 3/4" = 1'-0"



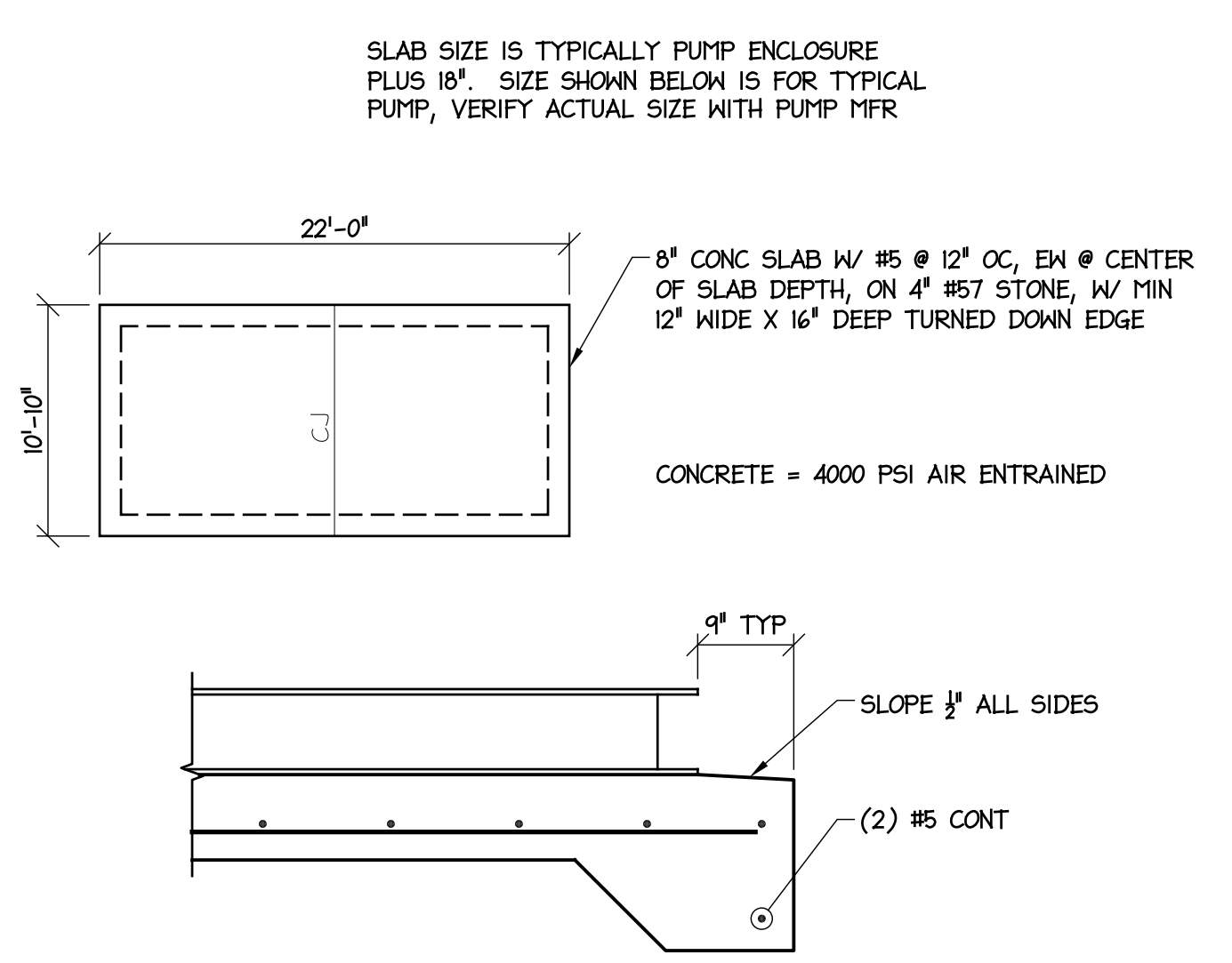
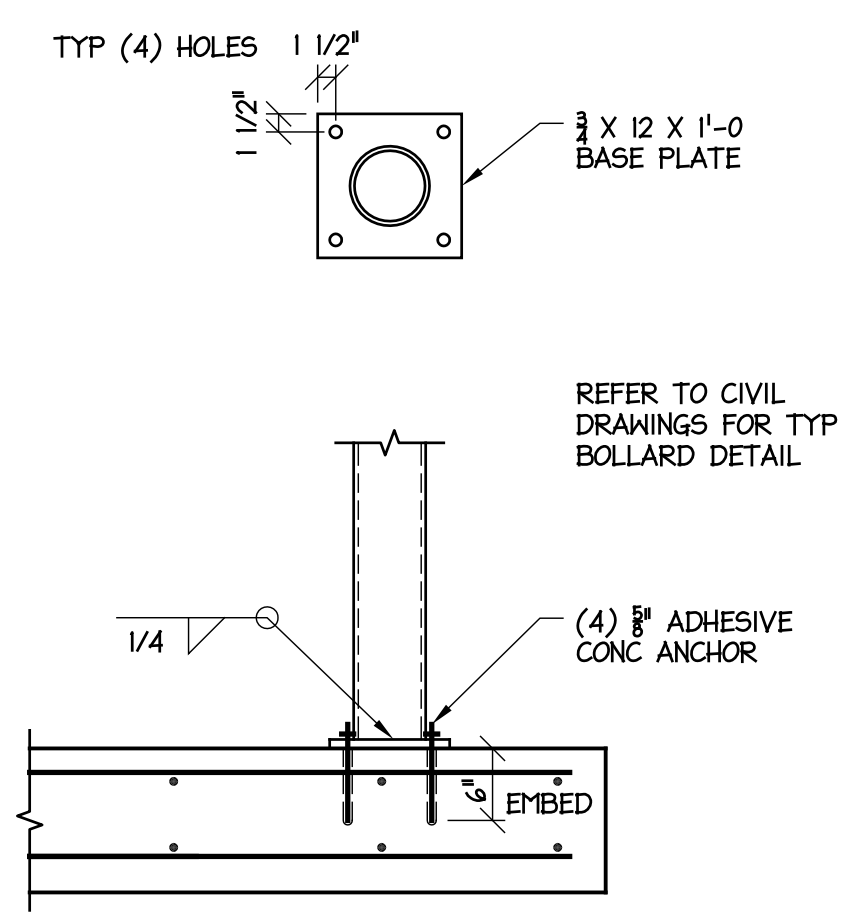
5 INTERIOR WALL AT ROOF
SCALE: 3/4" = 1'-0"



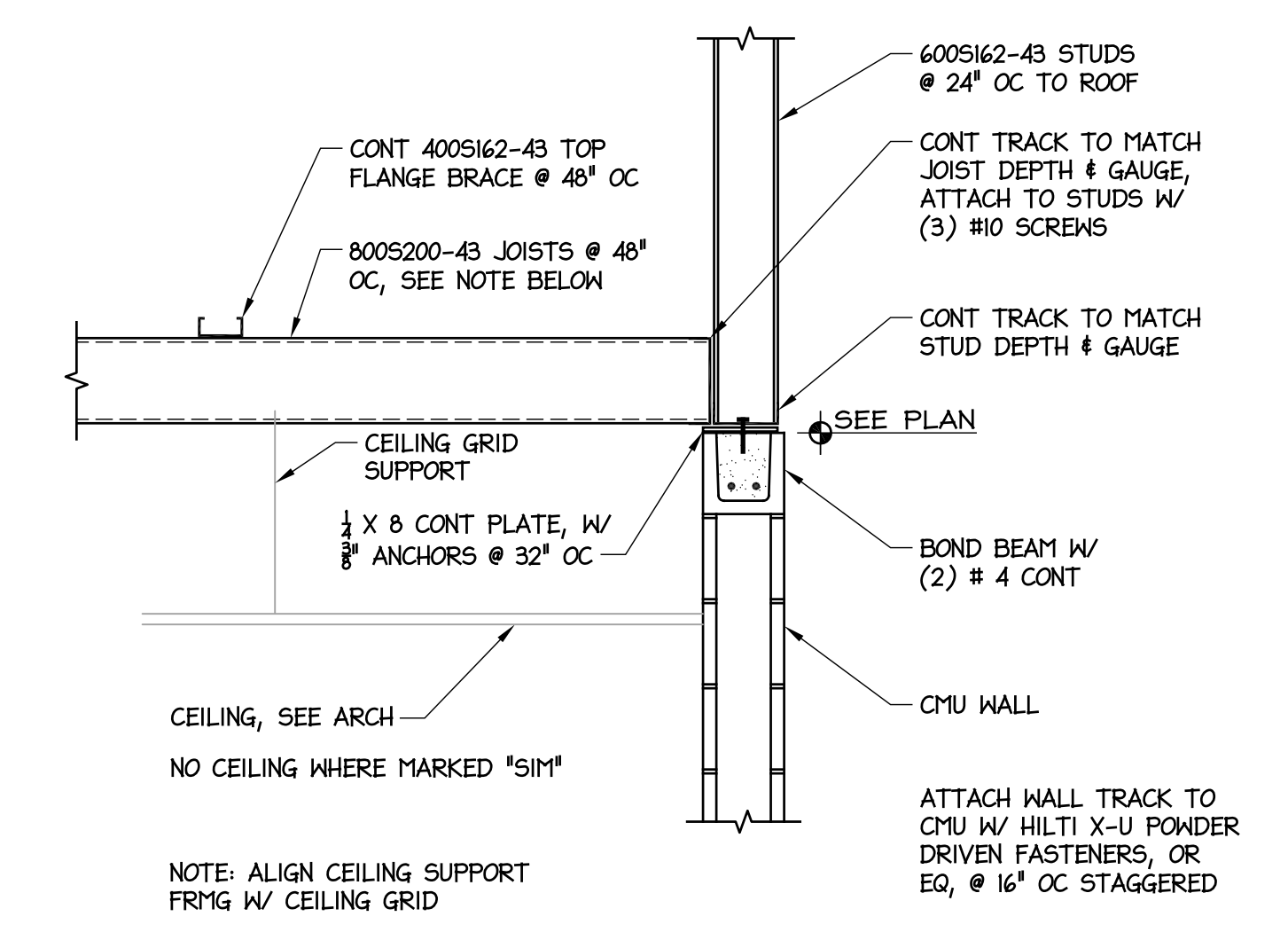
3 HOSE REEL DETAILS
SCALE: 3/4" = 1'-0"



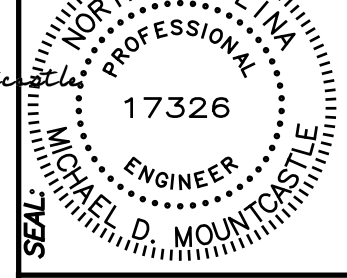
2 CEILING SUPPORT FRAMING
SCALE: 3/4" = 1'-0"



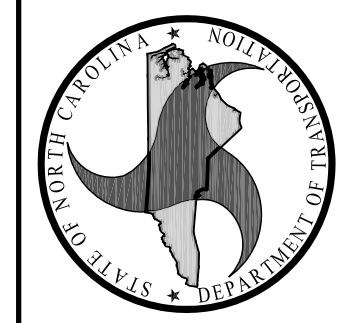
4 FIRE PUMP SLAB
SCALE: 1/8" = 1'-0"



1 CEILING SUPPORT & WALL FRMG
SCALE: 3/4" = 1'-0"



DESIGNED BY:
FACILITIES DESIGN ARCHITECTS & ENGINEERS
FACILITIES MANAGEMENT DIVISION, NCDOT



CONSULTANT:

DRAWING TITLE / DESCRIPTION:

PROJECT TITLE:
Lumberton Equipment Sub-Shop

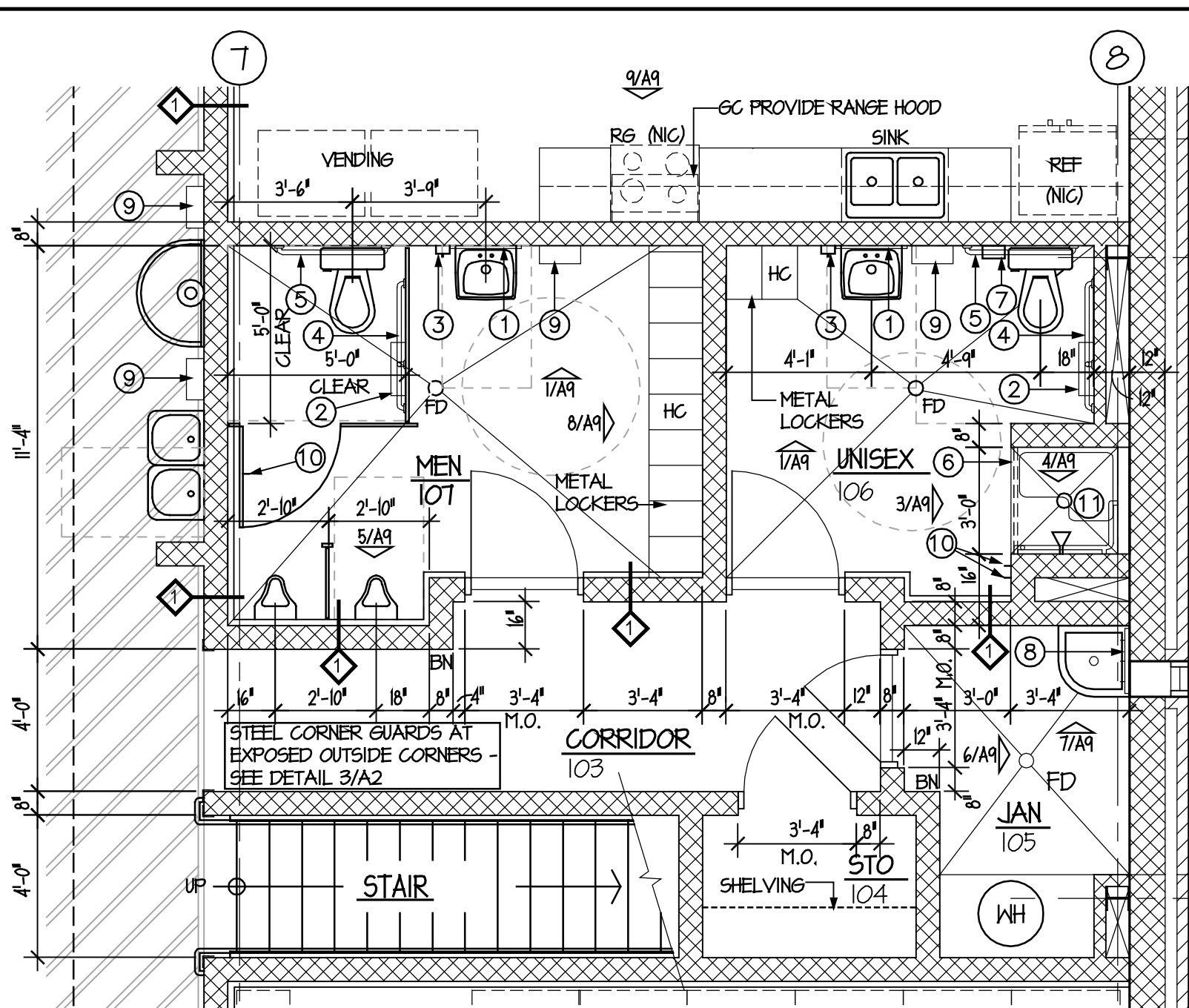
STATE CONSTRUCTION ID.# 16-12916-01A

ASSET NUMBER:
CO.# - SITE.# - BLDG.#
78 - 06 - 00

REVISIONS NO. DATE

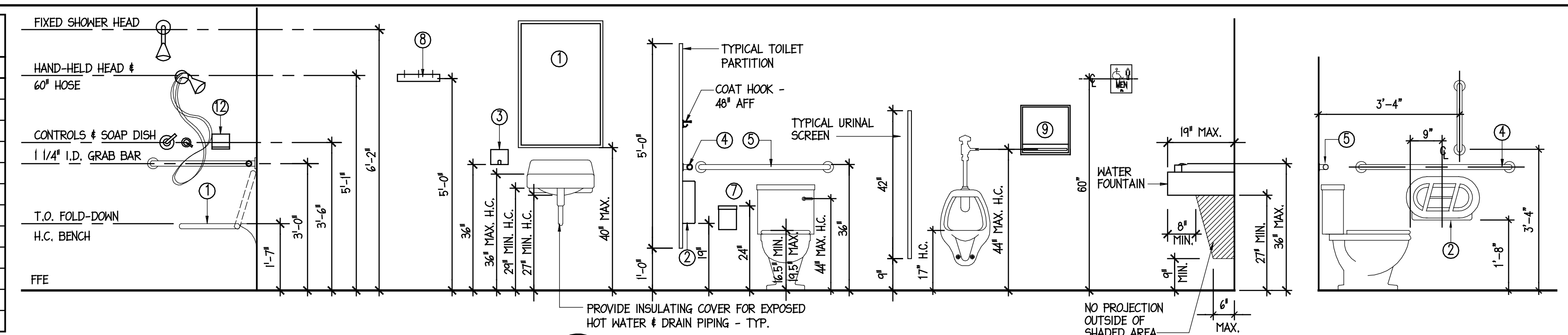
DATE ISSUED: 12-15-17
DRAWN BY: MDM
CHECKED BY: MDM
SHEET NO.

S6



TOILET ACCESSORY SCHEDULE	
MARK	DESCRIPTION
1	24" x 36" MIRROR
2	TOILET TISSUE DISPENSER
3	SOAP DISPENSER
4	42" GRAB BAR
5	36" GRAB BAR
6	SHOWER CURTAIN AND ROD
7	SANITARY NAPKIN DISPOSAL
8	MOP/BROOM HOLDER
9	PAPER TOWEL DISPENSER
10	TONEL/ROBE HOOK
11	FOLD-DOWN HANDICAP BENCH

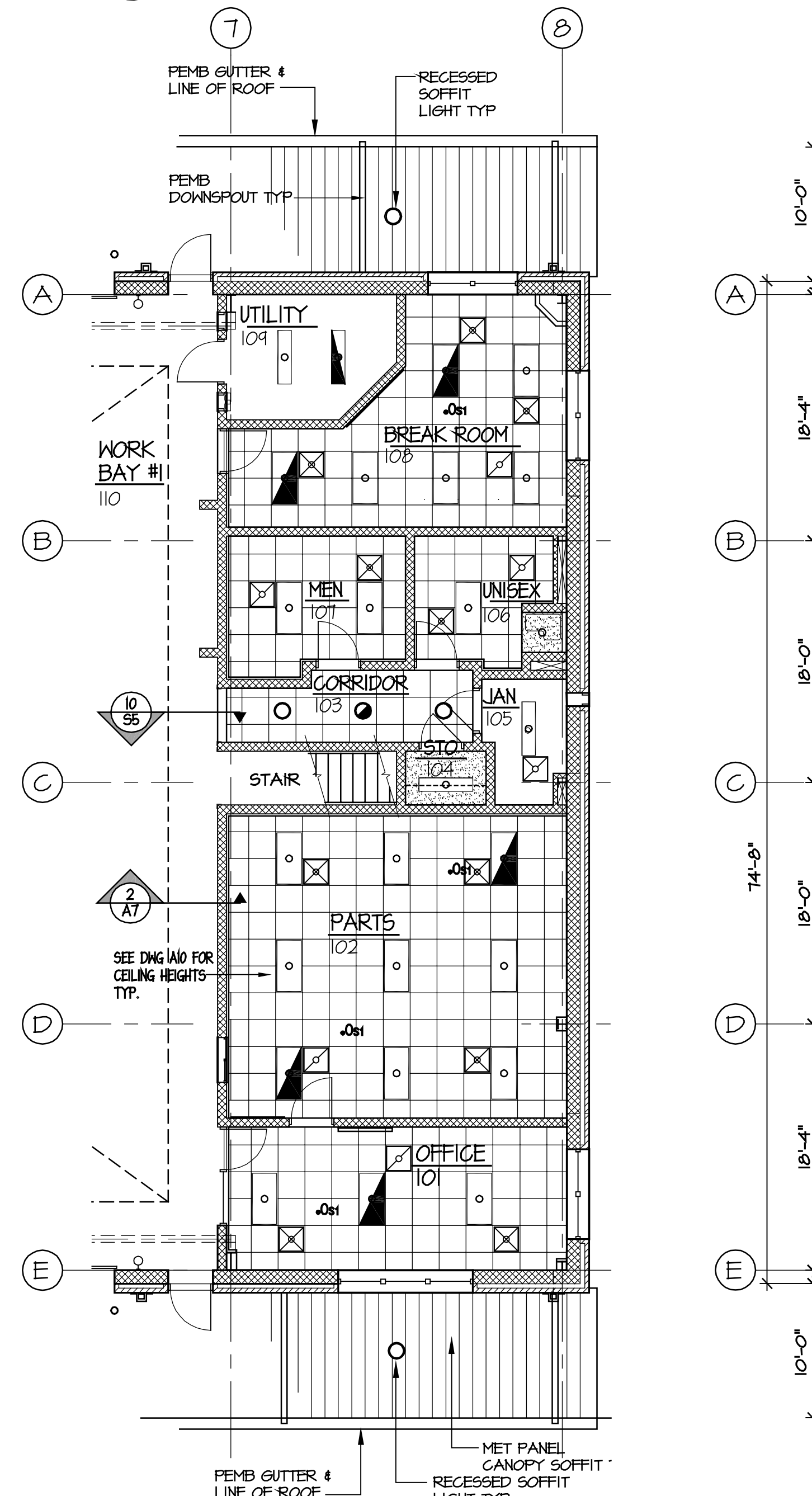
REFLECTED CEILING PLAN LEGEND			
	2x4 LAY-IN LIGHT FIXTURE		CEILING MOUNTED EXIT LT.
	EMERGENCY LIGHT FIXTURE		CEILING MOUNTED LT. FIXTURE
	1x4 LIGHT FIXTURE		SMOKE DETECTOR
	2x2 LIGHT FIXTURE		CEILING MOUNTED FIRE ALARM / STROBE
	2x2 SUPPLY MECHANICAL GRILLE		CEILING MOUNTED HEAT DETECTOR
	2x2 RETURN MECHANICAL GRILLE		OCCUPANCY SENSOR
	EXHAUST		WALL MOUNTED EGRESS LT. FIXTURE
			CEILING MOUNTED EGRESS LT. FIXTURE
			CLOSED CIRCUIT TV / SECURITY CAMERA
			CEILING MOUNTED OCCUPANCY SENSOR
			CEILING MOUNTED DAY-LIGHT SENSOR



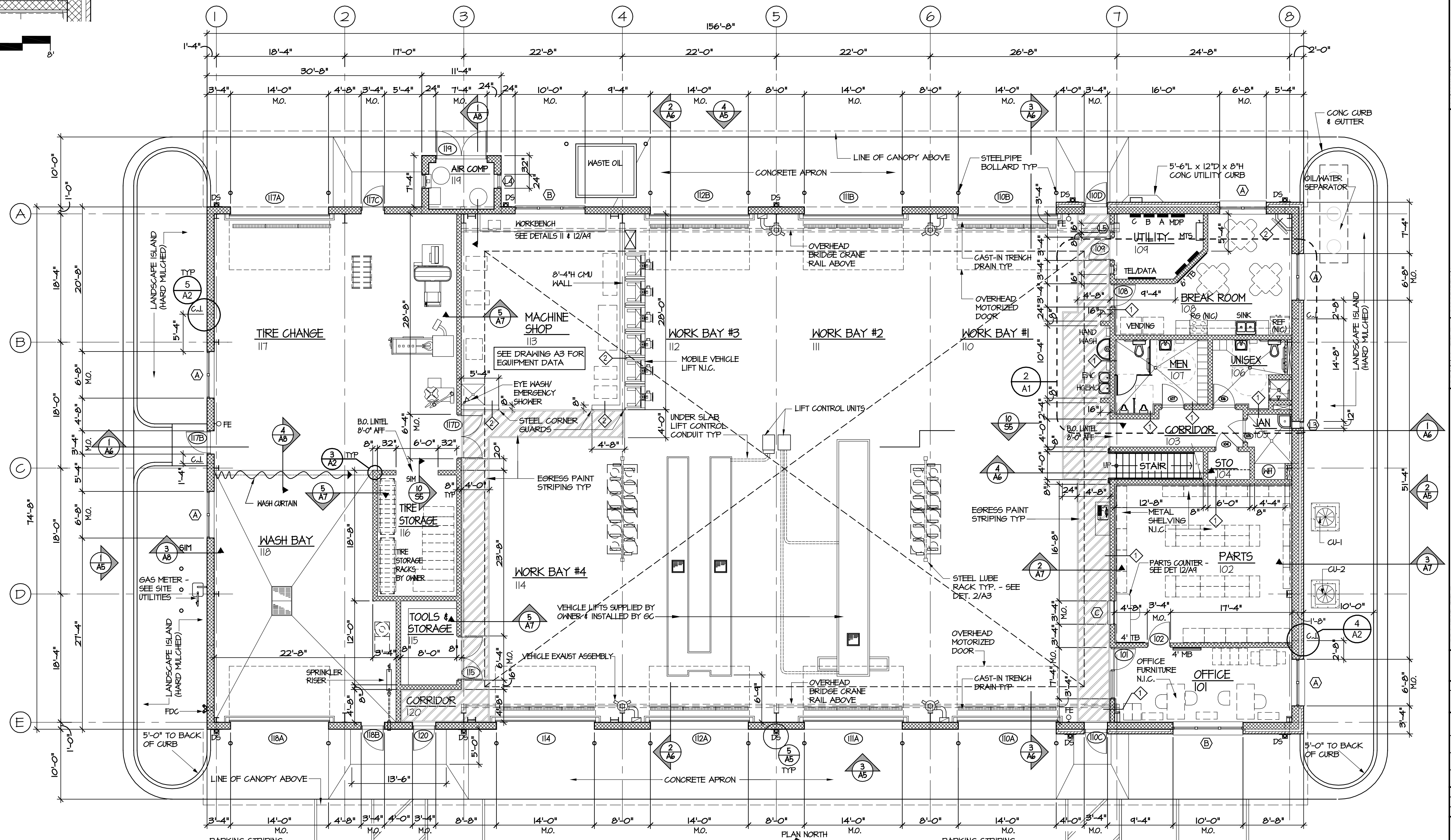
4 TOILET ACCESSORY MOUNTING HEIGHTS
SCALE: 1 1/2" = 1'-0"

GENERAL NOTES:
 1. PROVIDE BULL NOSE AT ALL OUTSIDE CORNERS AT INTERIOR WALLS, EXCEPT BEHIND STEEL CORNER GUARDS - SEE DET 3/A2.
 2. SEE DETAIL 3/G1 FOR STEEL BOLLARDS.
 3. SEE DETAIL 2/A2 FOR WALL TYPES.

2 ENLARGED FLOOR PLAN
SCALE: 1/4" = 1'-0"



3 REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"



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

BIDDING DOCUMENTS

MARK DOUGLAS DESIGN ARCHITECTS & ENGINEERS FACILITIES MANAGEMENT DIVISION, NCDOT

DESIGNED BY: FACILITIES DESIGN ARCHITECTS & ENGINEERS FACILITIES MANAGEMENT DIVISION, NCDOT

CONSULTANT: FACILITIES DESIGN ARCHITECTS & ENGINEERS FACILITIES MANAGEMENT DIVISION, NCDOT

DRAWING TITLE / DESCRIPTION: FLOOR PLAN, ENLARGED PLAN, & REFLECTED CEILING PLAN

PROJECT TITLE: LUMBERTON EQUIPMENT SHOP NCDOT HIGHWAY DIVISION 6

DATE CONSTRUCTION: 16-12916-01A

ASSET NUMBER: 78-06-00

REVISIONS: NO. DATE

DATE ISSUED: 12/15/2017

DRAWN BY: [Signature]

CHECKED BY: [Signature]

SHEET NO. **A1**

872 NC 7H HIGHWAY LUMBERTON, NORTH CAROLINA 28880



DESIGNED BY:
FACILITIES DESIGN
ARCHITECTS & ENGINEERS
FACILITIES MANAGEMENT DIVISION, NCDOT
1 SOUTH WILKINSON STREET
RALEIGH, NORTH CAROLINA 27601
PHONE 919/707-4540 FAX 919/705-0399



CONSULTANT:

DRAWING TITLE / DESCRIPTION:

MEZZANINE PLAN

PROJECT TITLE:

STATE CONSTRUCTION ID.#

ASSET NUMBER:
CO.# SITE.# BLDG.#

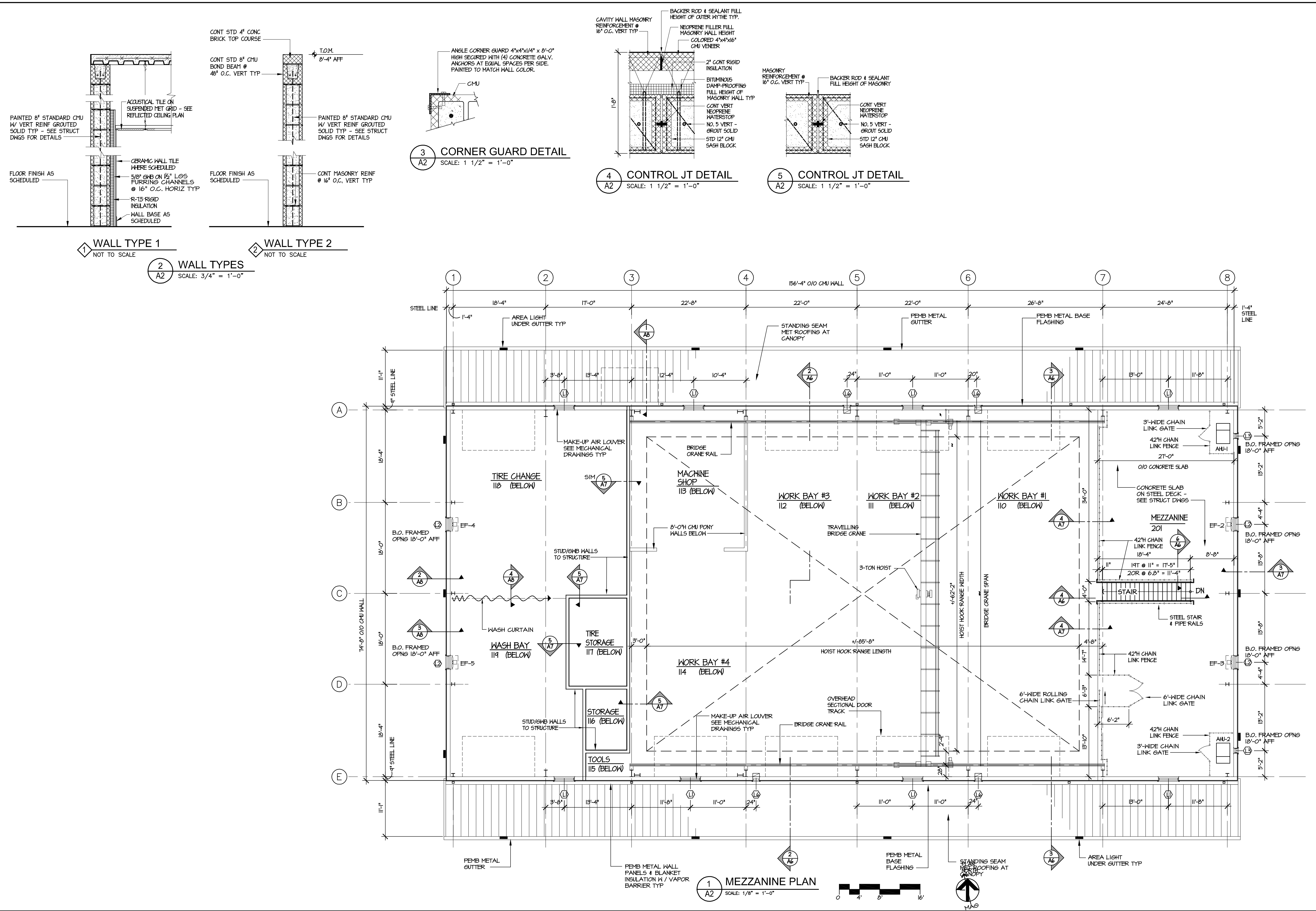
REVISIONS
NO. DATE

DATE ISSUED: 12/15/2017
DRAWN BY:
CHECKED BY:
SHEET NO.

LUMBERTON EQUIPMENT SHOP
NCDOT HIGHWAY DIVISION 6
872 NC 7H HIGHWAY
LUMBERTON, NORTH CAROLINA 28890

16-12916-01A
78-06-00

A2





DESIGNED BY:
FACILITIES DESIGN
 ARCHITECTS & ENGINEERS
 FACILITIES MANAGEMENT DIVISION, NCDOT
 1 SOUTH WILKINSON STREET
 RALEIGH, NORTH CAROLINA 27601
 PHONE 919/707-6440 FAX 919/705-0399



CONSULTANT:

SHOP EQUIPMENT PLAN

PROJECT TITLE / DESCRIPTION:
 LUMBERTON EQUIPMENT SHOP
 NCDOT HIGHWAY DIVISION 6

STATE CONSTRUCTION
 ID.# 16-12916-01A

ASSET NUMBER:
 CO.# SITE.# BLDG.#
 78 - 06 - 00

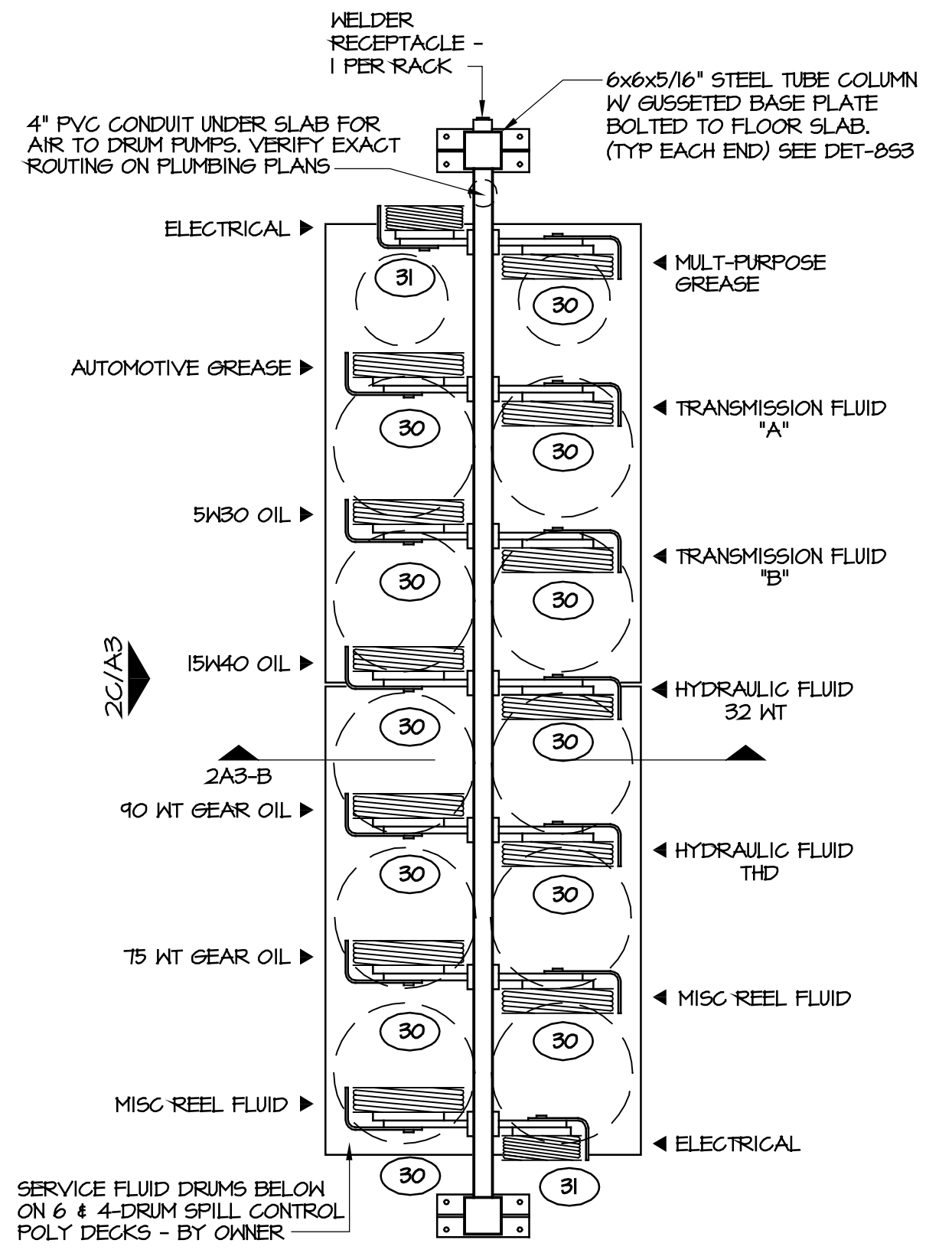
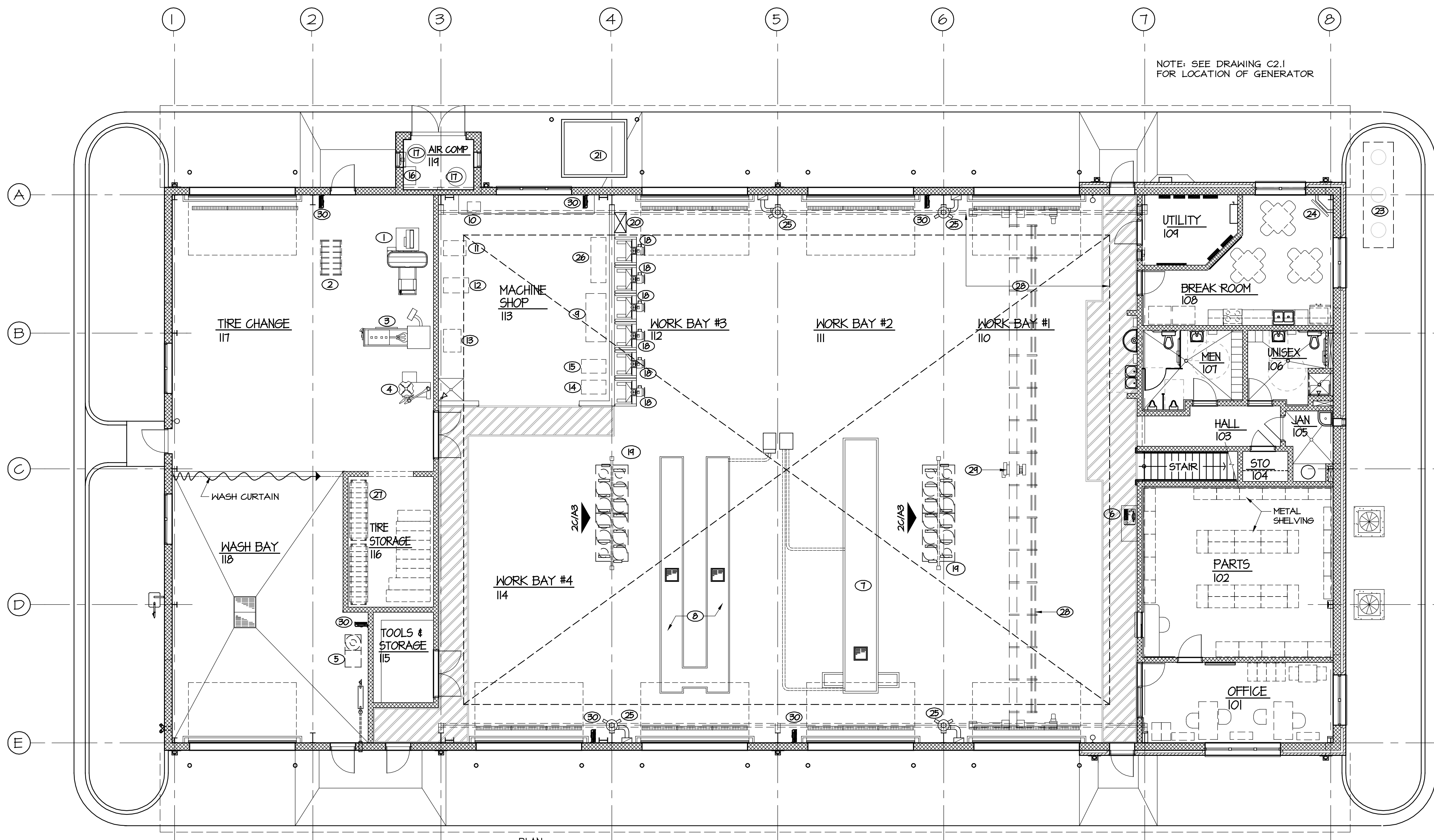
REVISIONS
 NO. DATE

DATE ISSUED: 12/15/2017
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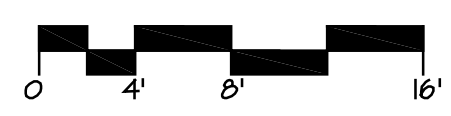
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A3

NOTE: SEE DRAWING C2.1 FOR LOCATION OF GENERATOR



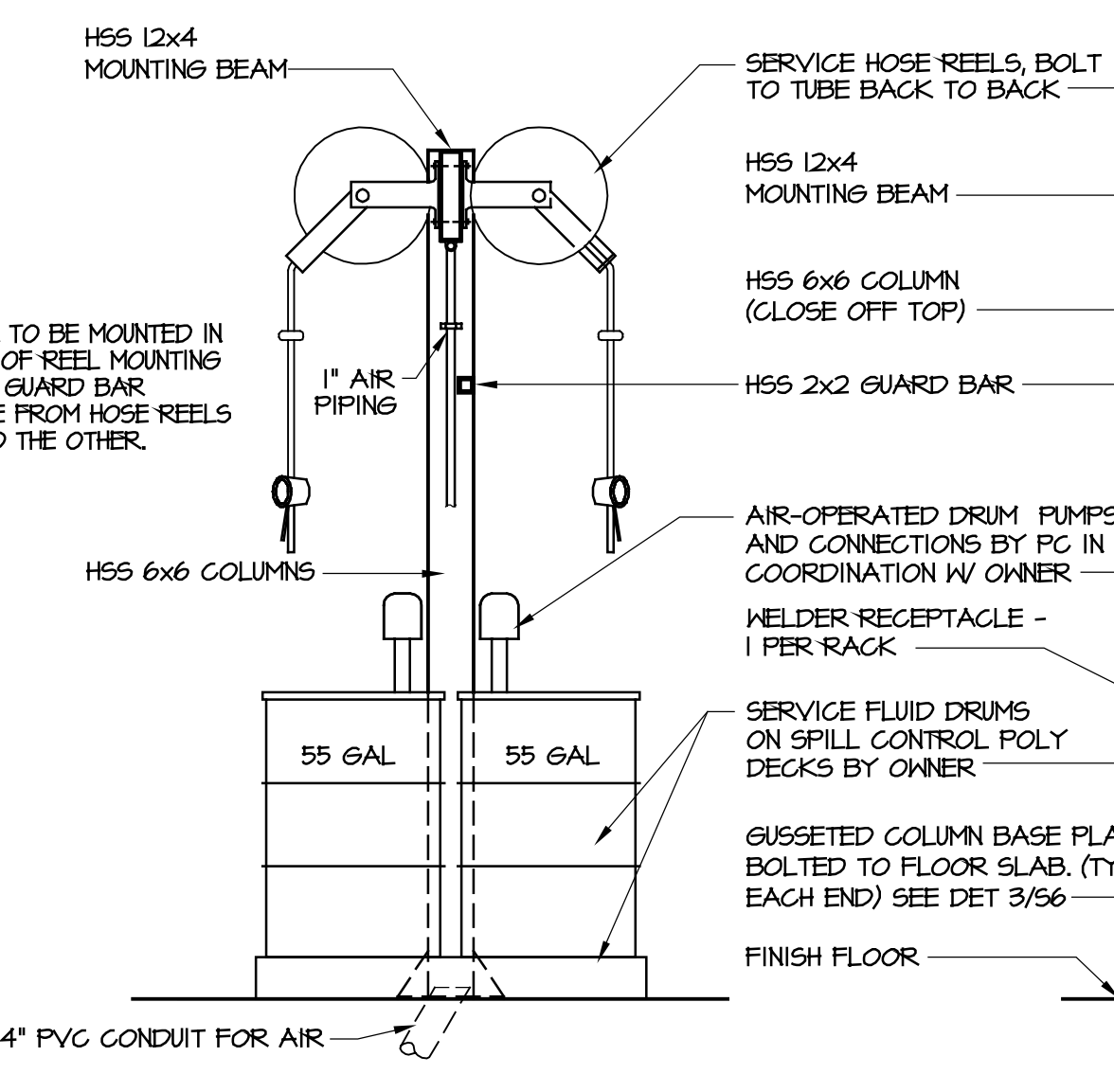
1 SHOP EQUIPMENT PLAN
 SCALE: 1/8" = 1'-0"



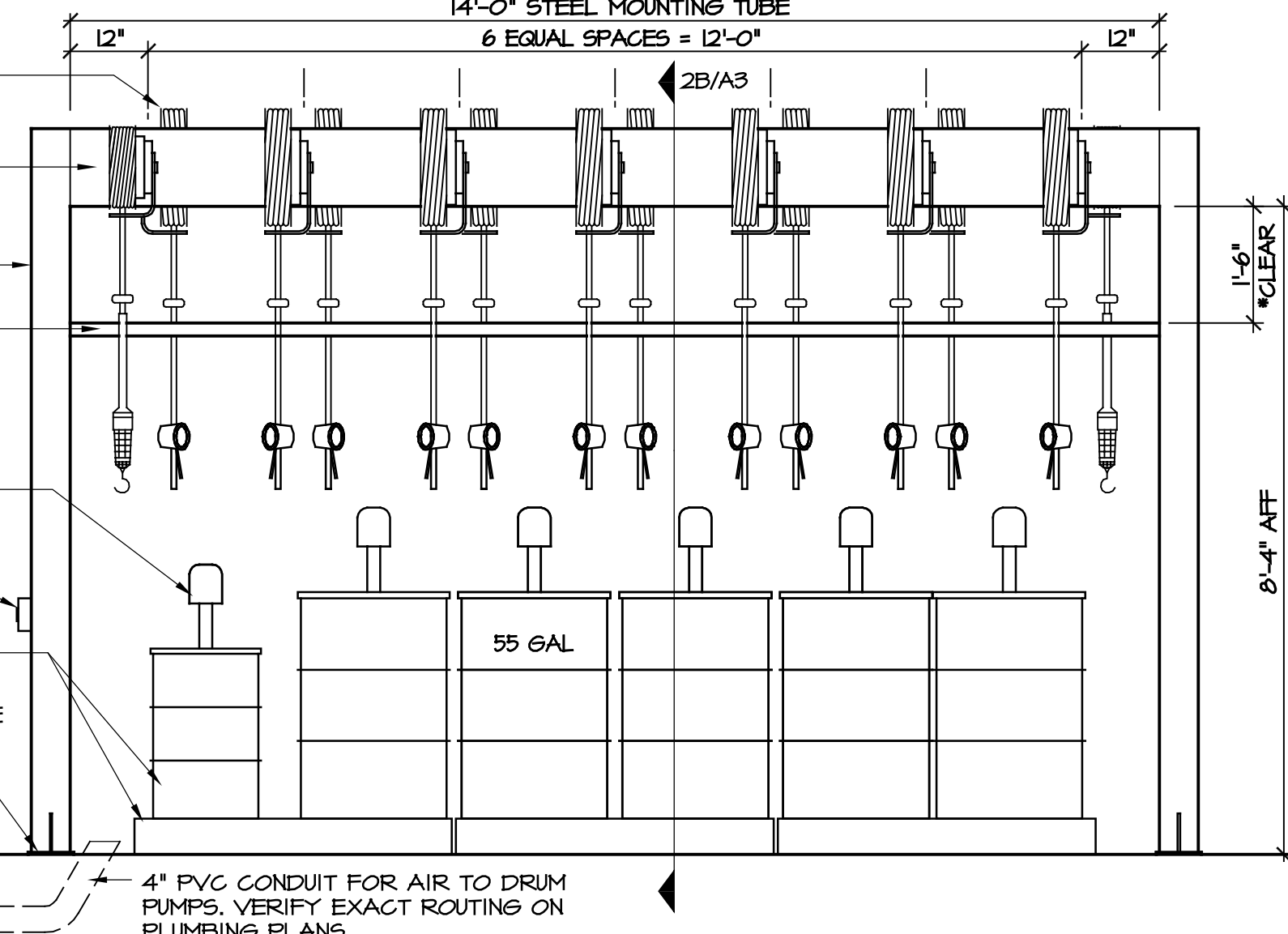
EQUIPMENT SCHEDULE								
GC/PC/EC/MC VERIFY AND COORDINATE LOCATION, SERVICES, AND INSTALLATION OF ALL EQUIPMENT (NEW OR EXISTING) WITH OWNER								
EQUIP NO.	DESCRIPTION	MFR	MODEL	SIZE	ELECTRICAL VOLTS/AMPS	OTHER UTILITIES	GENERAL REMARKS	NOTES
1	TIRE BALANCER	COATS	6450 W/ 550 LIFT	112"x64"x62"	220/30			2
2	TIRE INFLATION CAGE						NEAR AIR	2
3	TIRE CHANGER	COATS	HIT 5000	100"x48"x60"	220/30			2
4	TIRE CHANGER	COATS	RM CLAMP-?-AX	48"x48"x72"	220/30			2
5	PRESSURE WASHER	ALADDIN	3530	56"x24"x55"	230/30	264 CFH; 10 HP MOTOR	10" DIA EXHAUST STACK	5
6	INSPECTION MACHINE	BANALOGIC	BL-A100	24"x20"	110/20			2
7	VEHICLE LIFT - TYPE 2	STRITL KONI	ECOLIFT				GC/PC/EC VERIFY/COORDINATE W/ OWNER	1
8	VEHICLE LIFT - TYPE 1	STRITL KONI	SKYLIFT 200 41334000					1
9	BAND SAW	WILTON	7015	72"x24"x48"	110/20			2
10	BENCH GRINDER	DAYTON	42909C		120/240V,10/5.0 A			2
11	DRILL PRESS	JET	JDP-17MF	12"x20"	208/230V, 20 A, 60 Hz			2
12	HYDRAULIC PRESS				110/20			2
13	PARTS WASHER	KARCHER	C-200.861	36"x28"x72"	110/20			2
14	WELDER	MILLER	MILLERMATIC 251	19"x40"	208/230V,48/42 A			2
15	PLASMA CUTTER						SHARE RECEPTACLE W/ ADJACENT WELDER	2
16	AIR DRYER for AIR COMP	INGERSOLL RAND	D300IN	20"x25.5"x38.5"	230V	40 HP COMPRESSOR	ANGLE FRAME STAND FURNISHED BY OWNER	3
17	AIR COMPRESSOR	SAYLOR BEAL	VT-755-120		230V 3-PHASE	10 HP MOTOR	120 GAL TANK	3
18	MOBILE COLUMN LIFTS	STERITL KONI	ST1085-FWA					2
19	LUBE RACK							6
20	WASTE OIL RECEPTACLE/PUMP					1/2" AIR LINE	PC TO RELOCATE EXISTING FROM OLD SHOP	5
21	WASTE OIL STORAGE TANK						PC TO RELOCATE EXISTING FROM OLD SHOP	5
22	STANDBY GENERATOR	GENERAC	SG150	143"Lx50.4"Wx68.2"H	120/208/60, 521AMP 3PH	N6: 7"-11" W.C.	1,841,800 BTU/HR; 150 KW, 187.50 KVA	4
23	OIL/WATER SEPARATOR						SEE DWG P3.0	6
24	TRAINING VIDEO MONITOR							2
25	VEHICLE EXH REMOVAL FAN	VENTAIRE	TPD-12R07D		208/3/60			2
26	VERTICAL MILLING MACHINE	JET	690038 JWM-836-3		230V, 3-PHASE	1.5 HP MOTOR		2
27	TIRE STORAGE RACKS							2
28	TRAVELLING 3-TON BRIDGE CRANE				208/3/60	(2)-0.5 HP CRANE DRIVE MOTORS		6
29	3-TON HOIST				208/3/60	5.8 HP HOIST MOTOR		6
30	FLUIDS HOSE REEL	DURO	No. 1218			1000 PSI RATED		3
31	ELECTRICAL HOSE REEL	REELCRAFT	NO. L4060 163 10		15A 125V 60Hz		12 AWG RATED AT 1875W	3

NOTES:
 1. FLUSH-MOUNTED IN-FLOOR LIFT & CONTROL UNIT WILL BE PURCHASED BY THE OWNER AND INSTALLED BY THE MANUFACTURER. THE GC, PC, AND EC SHALL PROVIDE THE LIFT PIT & REQUIRED UTILITY SERVICES. THEY SHALL COORDINATE THE EXACT SIZE AND LAYOUT OF THE LIFT PIT AND REQUIRED UTILITY SERVICES WITH THE OWNER AND LIFT MANUFACTURER.
 2. SHALL BE FURNISHED AND INSTALLED BY THE OWNER.
 3. SHALL BE FURNISHED BY THE OWNER AND INSTALLED BY THE PC.
 4. SHALL BE FURNISHED BY THE OWNER AND INSTALLED BY THE EC.
 5. SHALL BE FURNISHED BY THE OWNER AND INSTALLED BY THE GC.
 6. SHALL BE FURNISHED AND INSTALLED BY THE GC.

A LUBE RACK PLAN VIEW

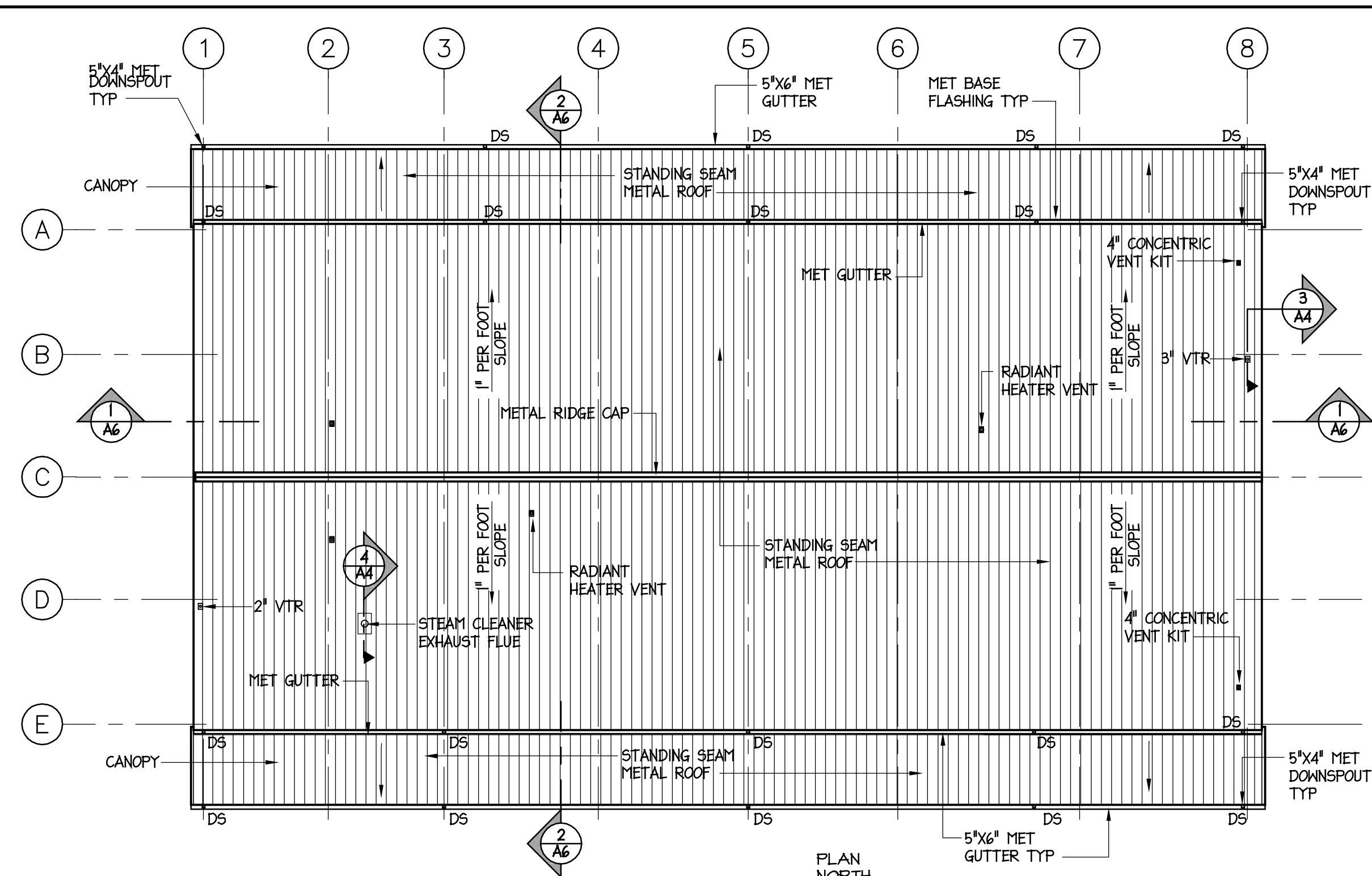


B LUBE RACK SECTION VIEW

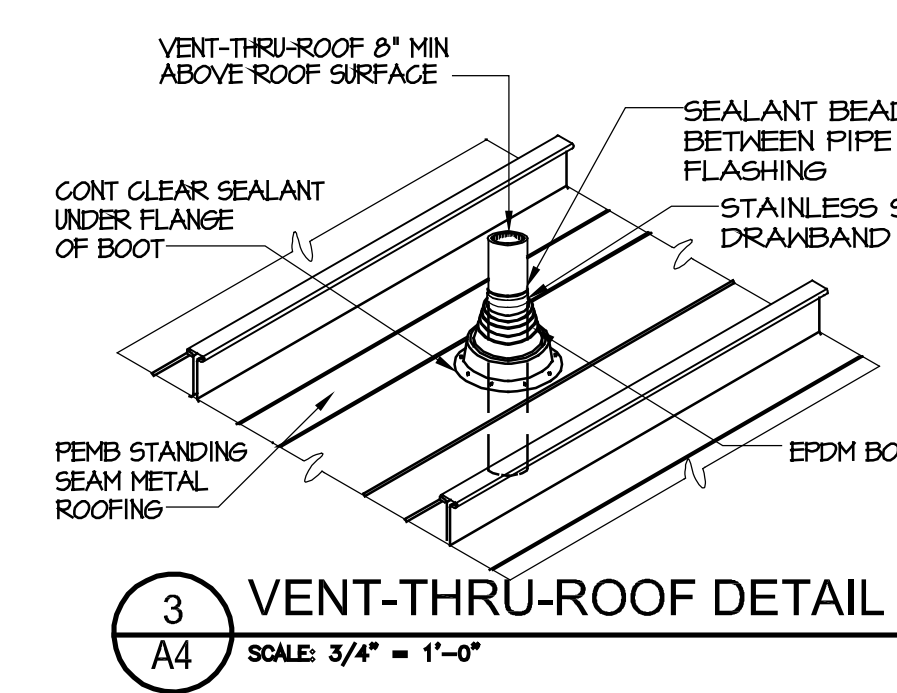


C LUBE RACK SIDE ELEVATION VIEW

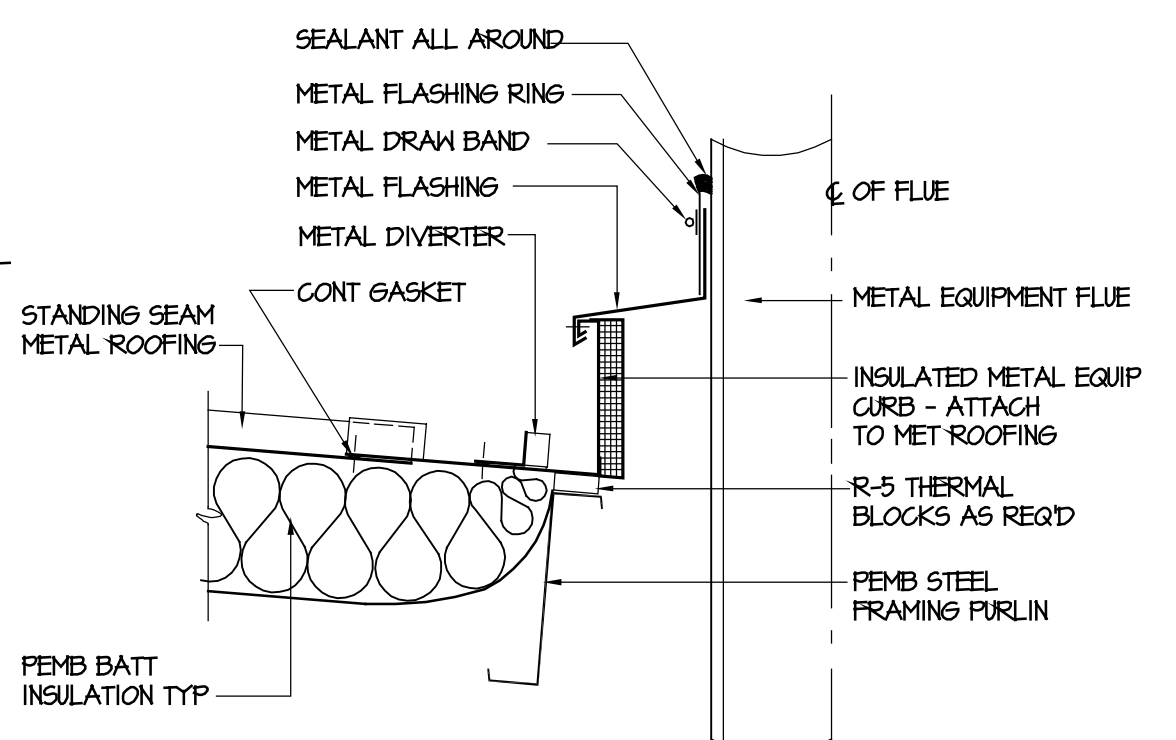
2 LUBE RACK - TYPICAL LAYOUT OF SERVICE FLUID HOSE REELS ON CUSTOM STEEL MOUNTING FRAME
 SCALE: 1/2" = 1'-0"



1 ROOF PLAN
 A4 SCALE: 1/16" = 1'-0"
 PLAN NORTH
 MAG



3 VENT-THRU-ROOF DETAIL
 A4 SCALE: 3/4" = 1'-0"



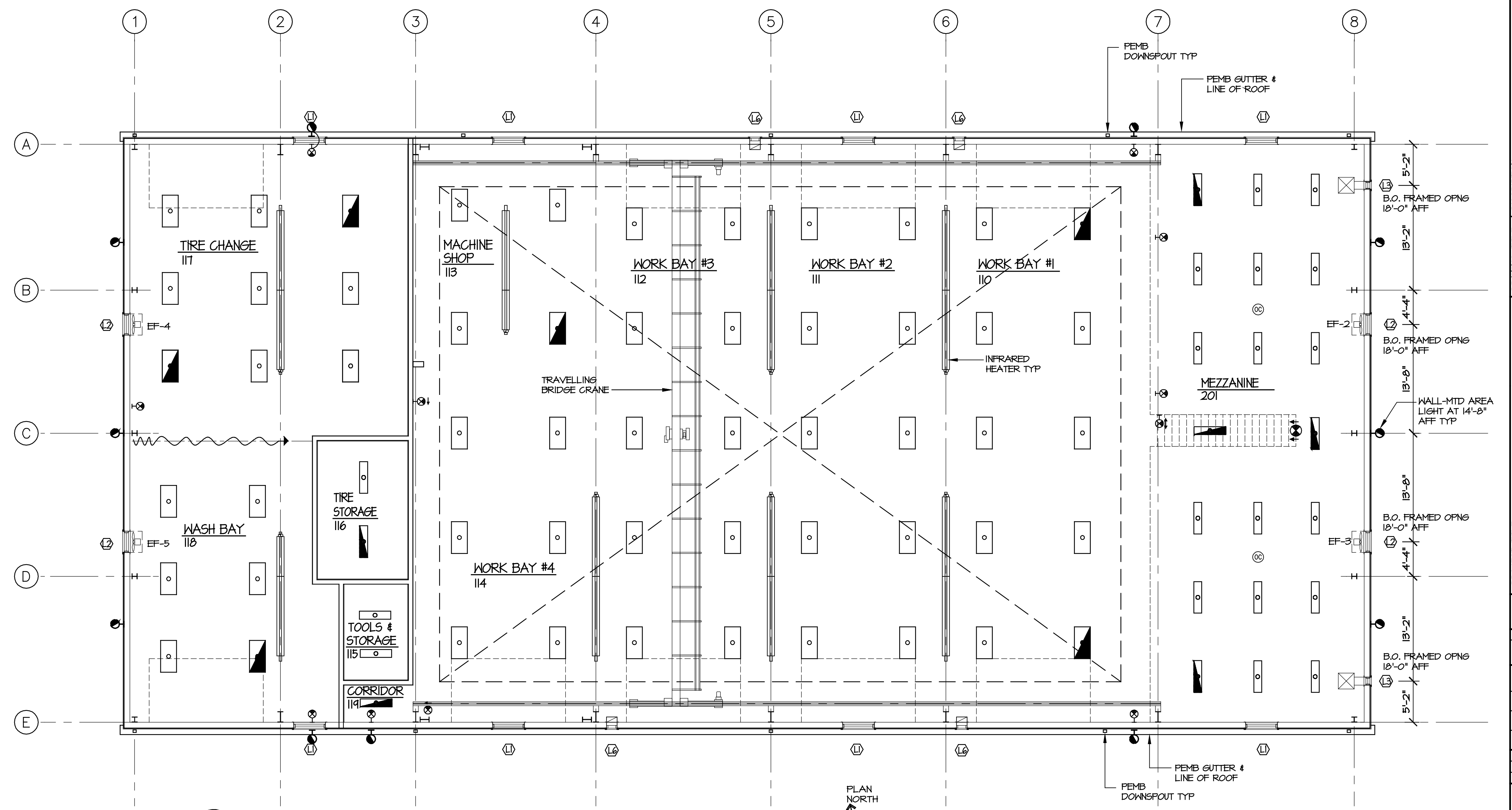
4 FLUE FLASHING DETAIL
 A4 SCALE: 1 1/2" = 1'-0"

REFLECTED CEILING PLAN LEGEND

- 2x4' LAY-IN LIGHT FIXTURE
- ◻ EMERGENCY LIGHT FIXTURE
- 1x4' LIGHT FIXTURE
- ◻ 2x2' LIGHT FIXTURE
- ◻ 2x2' SUPPLY MECHANICAL GRILLE
- ◻ 2x2' RETURN MECHANICAL GRILLE
- ⊠ EXHAUST
- ⊠ NAT GAS INFRARED HEATER
- ⊠ CEILING MOUNTED EXIT LT.
- CEILING MOUNTED LT. FIXTURE
- ⊠ SMOKE DETECTOR
- ⊠ CEILING MOUNTED FIRE ALARM / STROBE
- ⊠ CEILING MOUNTED HEAT DETECTOR
- ⊠ OCCUPANCY SENSOR
- ⊠ WALL MOUNTED EGRESS LT. FIXTURE
- ⊠ CEILING MOUNTED EGRESS LT. FIXTURE
- ⊠ CLOSED CIRCUIT TV / SECURITY CAMERA
- ⊠ CEILING MOUNTED OCCUPANCY SENSOR
- ⊠ CEILING MOUNTED DAY-LIGHT SENSOR

ROOF PLAN NOTES:

- GC SHALL PROVIDE ALL ROOFING ACCESSORIES AND TRIM AS REQUIRED FOR COMPLETE SYSTEM. GC SHALL OBTAIN ALL PEMB WALL AND ROOFING COMPONENTS FROM THE SAME MANUFACTURER. INSTALL ALL COMPONENTS PER MANUFACTURER'S INSTRUCTIONS. PROVIDE MANUFACTURER'S WARRANTY FOR METAL ROOFING PER SPECIFICATIONS.
- GC SHALL PROVIDE ALL ROOF FLASHING ASSEMBLIES REQUIRED FOR ALL PENETRATING ITEMS. FLASHING MATERIALS SHALL BE COMMERCIAL GRADE AND SHALL BE COMPATIBLE WITH STANDING SEAM METAL ROOFING PROVIDED.
- ARROWS ON THE ROOF PLAN INDICATE WATER DRAINAGE DIRECTION. ROOF SLOPES SHALL BE A MIN. OF 1" PER FT. OR AS PER MANUFACTURER'S RECOMMENDATIONS.
- ALL DOWNSPOUTS SHALL BE PROVIDED WITH PIPE BOOTS/ADAPTERS AND CONNECTORS TO UNDERGROUND STORM PIPING. SEE PLUMBING AND CIVIL FOR CONNECTION PIPING, AND CONTINUATION OF STORM PIPING.
- SEE MECHANICAL & PLUMBING DRAWINGS FOR LOCATIONS, SIZES, & DETAILS OF ALL VENT PIPES, EXHAUST VENT PIPES, ETC.



2 UPPER LEVEL REFLECTED CEILING PLAN
 A4 SCALE: 1/8" = 1'-0"
 PLAN NORTH
 MAG

NOTE: GC SHALL COORDINATE ELEVATION OF LIGHTS, HEATERS, & OTHER DEVICES IN WORK BAYS TO BE 8" MINIMUM ABOVE BRIDGE CRANE SECTIONAL DOOR TRACKS, ETC.. RUN PIPING, CONDUIT, ETC. TIGHT TO BUILDING STRUCTURE.

BIDDING DOCUMENTS

DESIGNED BY: **FACILITIES DESIGN ARCHITECTS & ENGINEERS**
 ARCHITECTS & ENGINEERS
 FACILITIES MANAGEMENT DIVISION, NCDOT
 1 SOUTH WILKINSON STREET
 RALEIGH, NORTH CAROLINA 27601
 PHONE 919/707-6540 FAX 919/705-0399

CONSULTANT:

DRAWING TITLE / DESCRIPTION
 ROOF PLAN & UPPER LEVEL REFLECTED CEILING PLAN

PROJECT TITLE
 LUMBERTON EQUIPMENT SHOP
 NCDOT HIGHWAY DIVISION 6
 872 NC 711 HIGHWAY
 LUMBERTON, NORTH CAROLINA 28890

STATE CONSTRUCTION ID.# 16-12916-01A

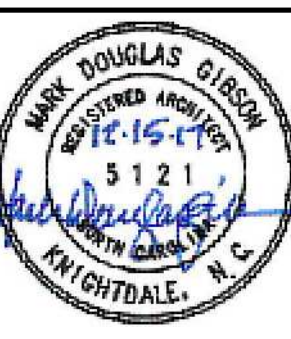
ASSET NUMBER: 78-06-00

CO.# SITE.# BLDG.#

REVISIONS NO. DATE

DATE ISSUED: 12/15/2017
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 SHEET NO.

A4



DESIGNED BY:
FACILITIES DESIGN
ARCHITECTS & ENGINEERS
FACILITIES MANAGEMENT DIVISION, NCDOT
1 SOUTH WILKINSON STREET
RALEIGH, NORTH CAROLINA 27601
PHONE 919/707-4540 FAX 919/705-0399



CONSULTANT:

DRAWING TITLE / DESCRIPTION
EXTERIOR ELEVATIONS

PROJECT TITLE:
LUMBERTON EQUIPMENT SHOP
LUMBERTON HIGHWAY DIVISION 6
872 NC 71 HIGHWAY
LUMBERTON, NORTH CAROLINA 28890

STATE CONSTRUCTION ID.# 16-12916-01A

ASSET NUMBER:
CO.# SITE.# BLDG.#
78 - 06 - 00

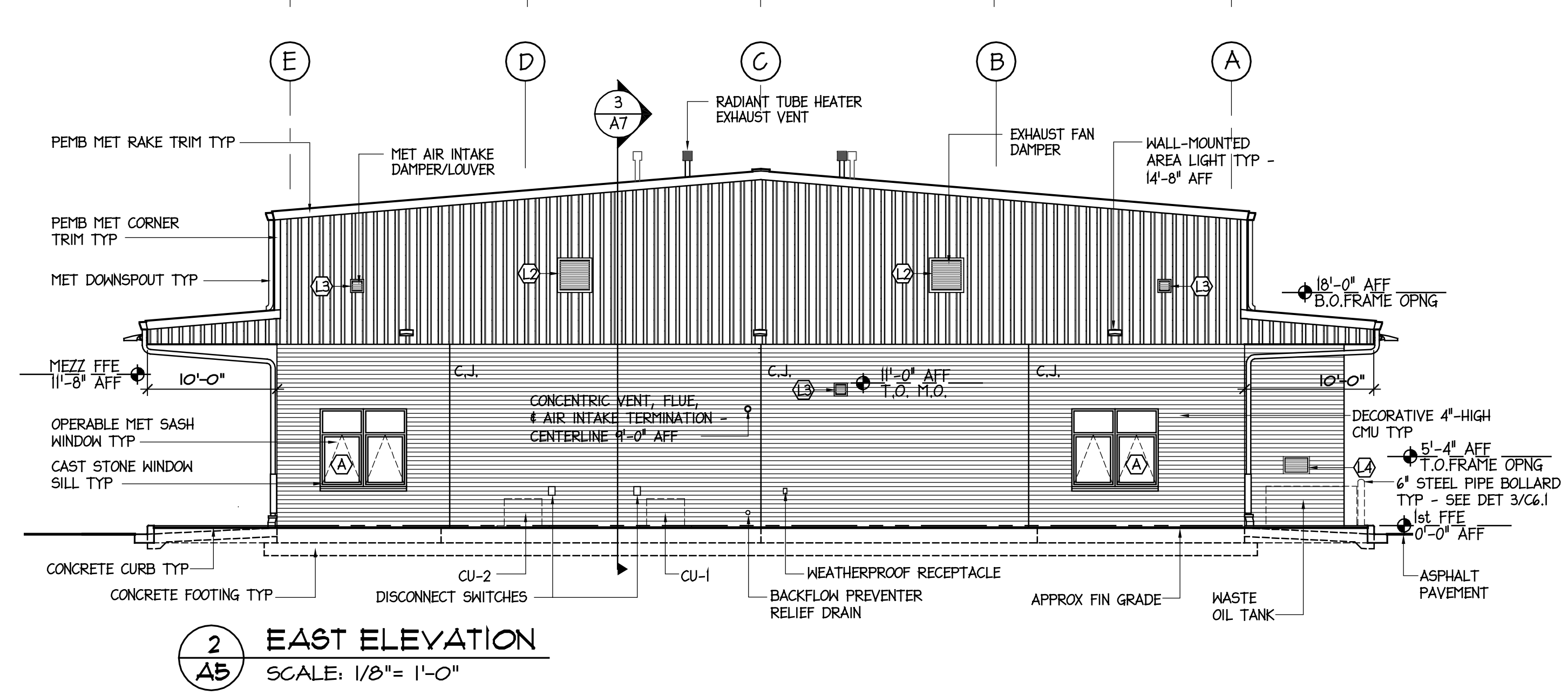
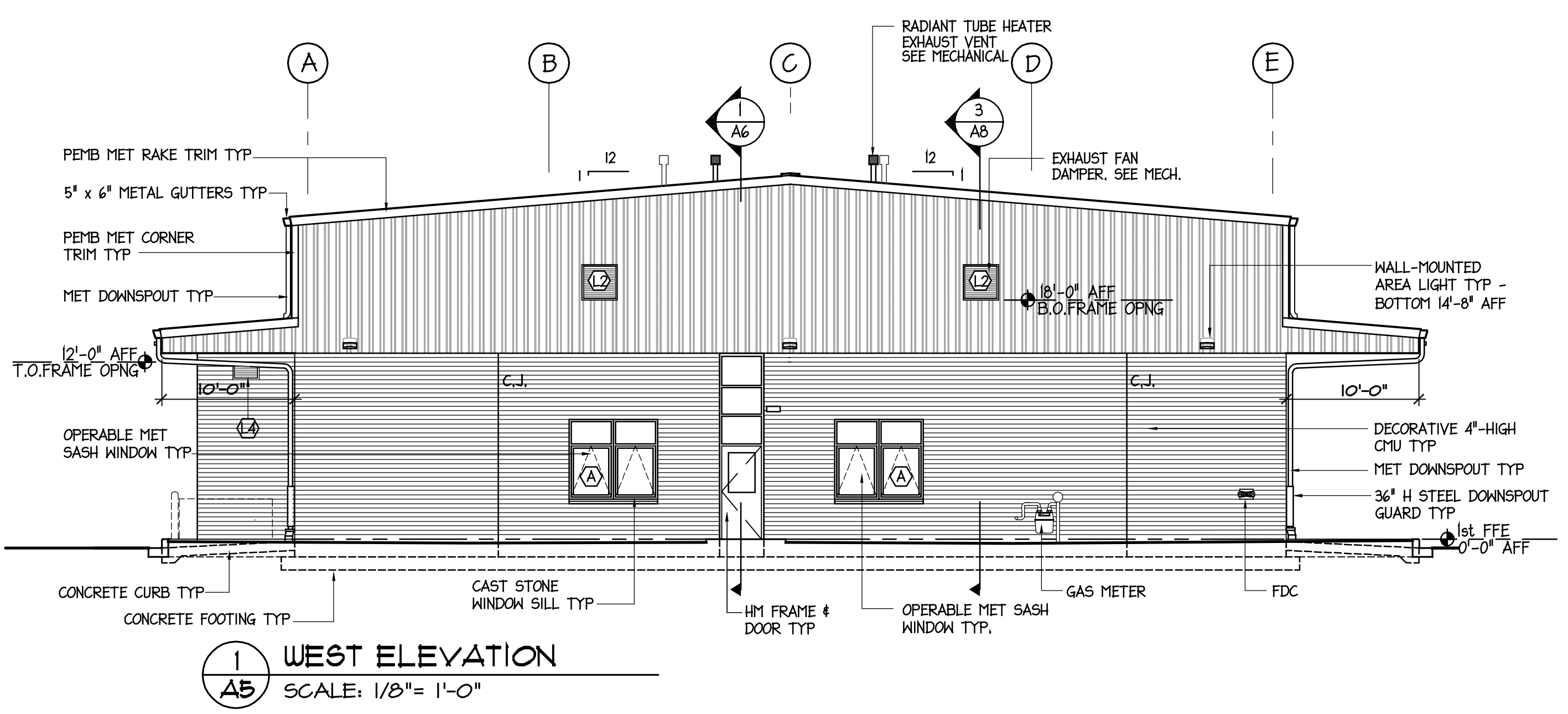
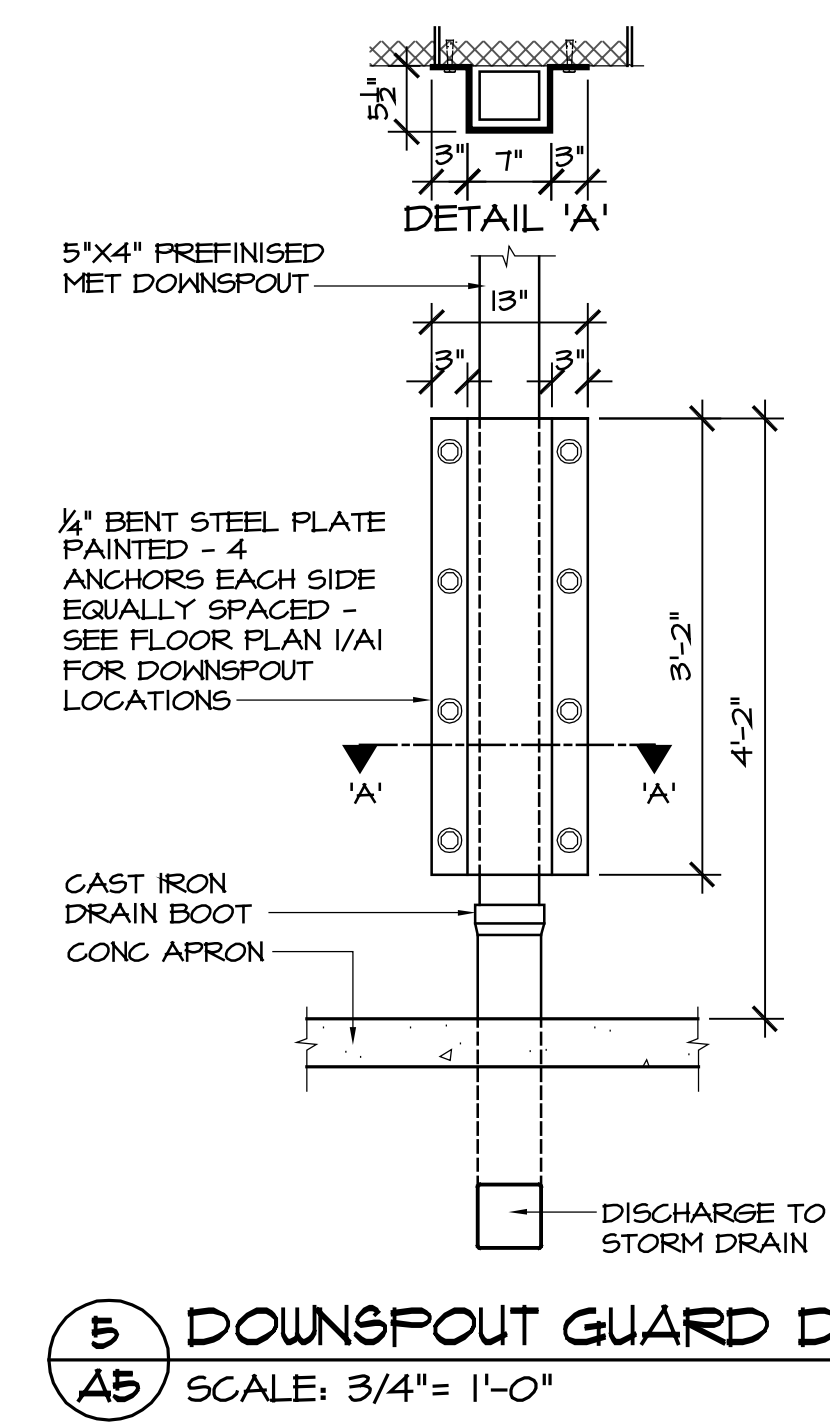
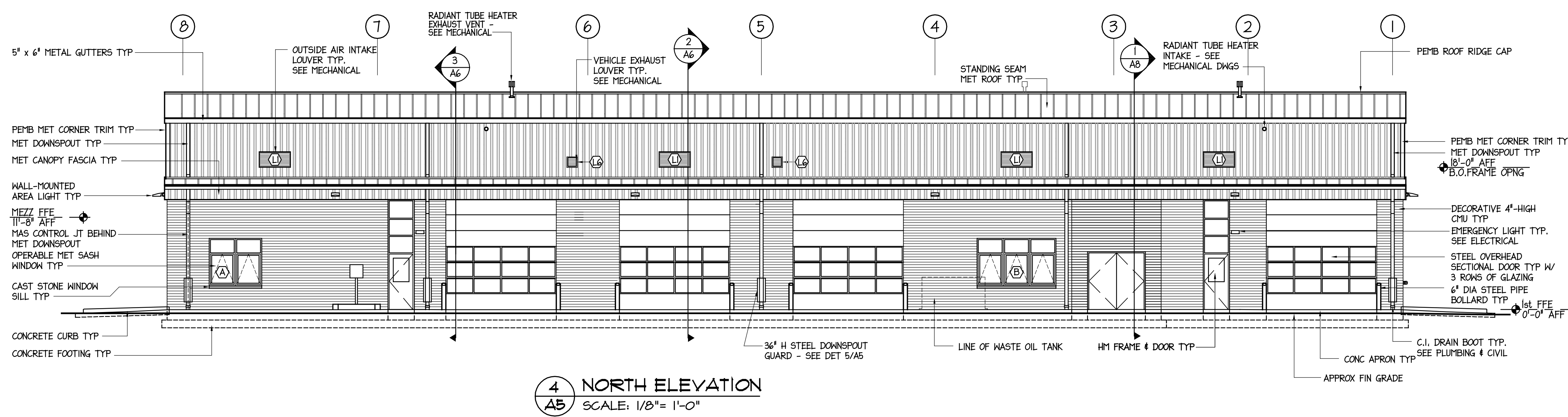
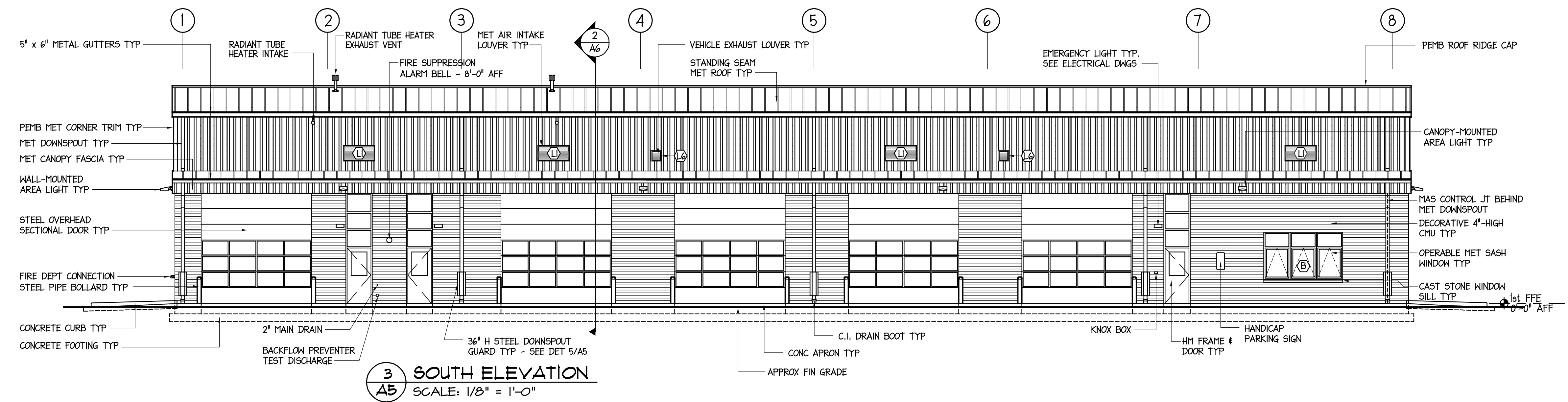
REVISIONS NO.	DATE

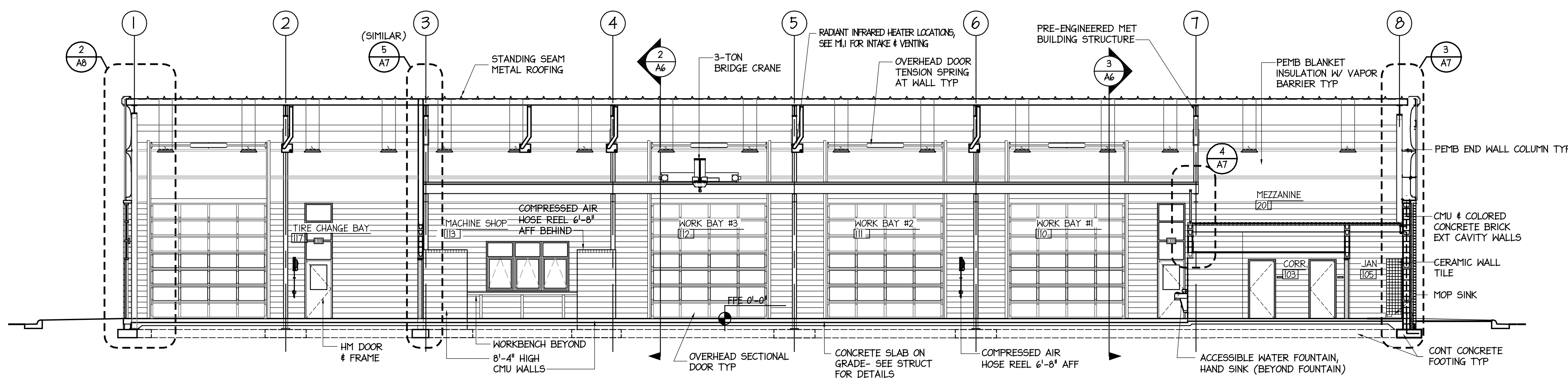
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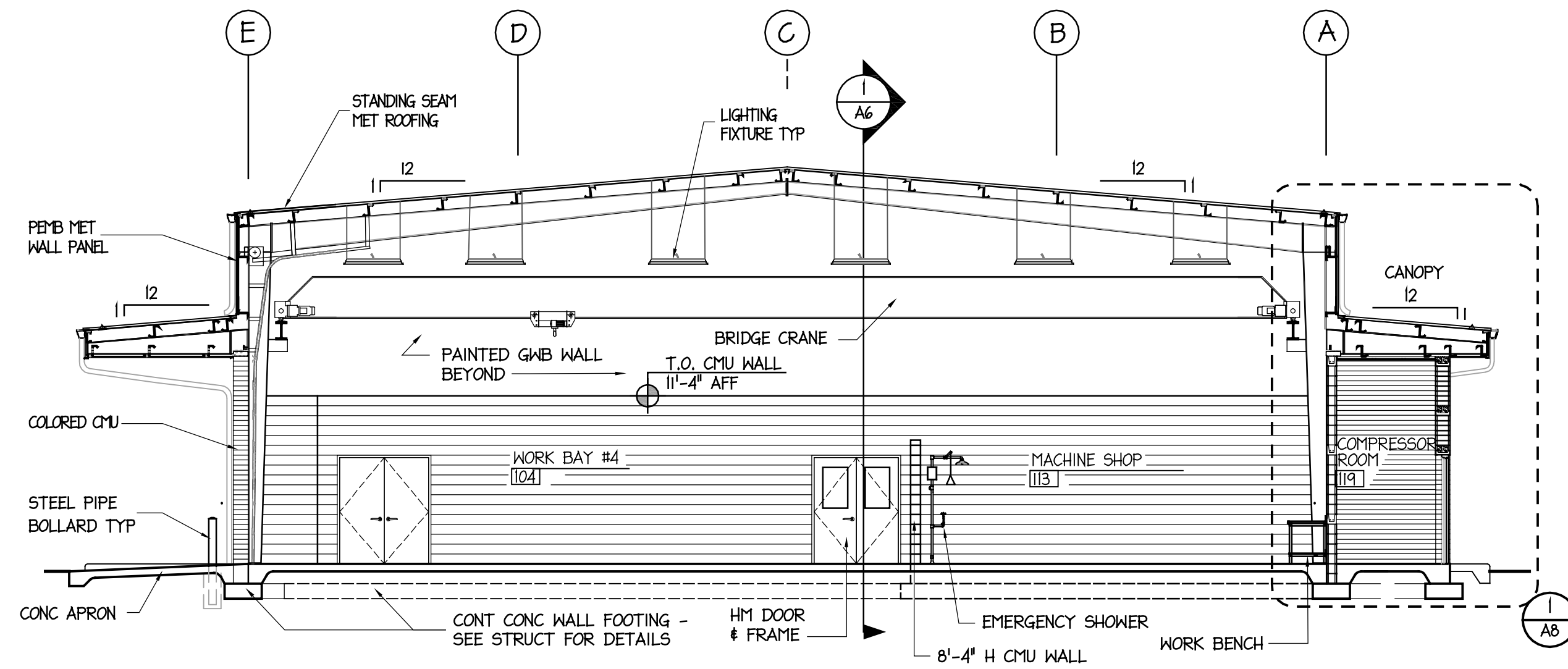
GENERAL NOTES:

- GC SHALL PROVIDE ALL ROOFING ACCESSORIES AND TRIM AS REQUIRED FOR COMPLETE SYSTEM. GC SHALL OBTAIN ALL PEMB WALL AND ROOFING COMPONENTS FROM THE SAME MANUFACTURER. INSTALL ALL COMPONENTS PER MANUFACTURER'S INSTRUCTIONS. PROVIDE MANUFACTURER'S WARRANTY FOR METAL ROOFING PER SPECIFICATIONS.
- GC SHALL PROVIDE ALL ROOF & WALL FLASHING ASSEMBLIES REQUIRED FOR ALL PENETRATING ITEMS. FLASHING MATERIALS SHALL BE COMMERCIAL GRADE AND SHALL BE COMPATIBLE WITH STANDING SEAM METAL ROOFING & METAL WALL PANELS PROVIDED.
- ALL METAL BUILDING RUNNING TRIM SHALL CONFORM TO SMACNA STANDARDS. TRIM LAP JOINTS ARE NOT ACCEPTABLE. TRIM SHALL BE LONGEST PRACTICAL LENGTHS. JOINTS SHALL BE BUTTED, REINFORCED, & SEALED PER SMACNA DETAILS.
- ALL METAL TRIM & EXPOSED FLASHING COMPONENTS SHALL MATCH ADJACENT METAL PANELS FOR MATERIAL & COLOR UNLESS OTHERWISE NOTED. COLORS SHALL BE SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE OF COLORS.
- METAL LOUVERS: COLORS AS SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE OF COLORS.



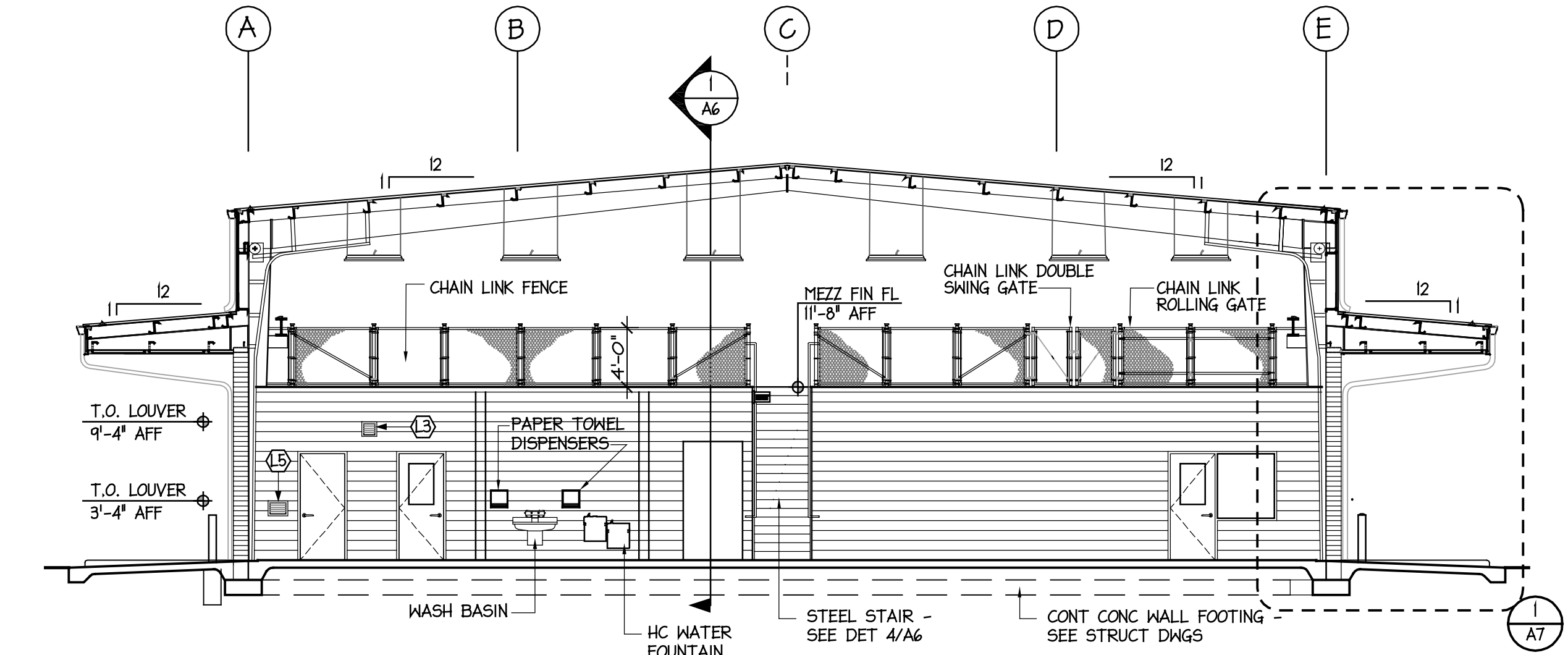


1 BUILDING SECTION
SCALE: 1/8" = 1'-0"

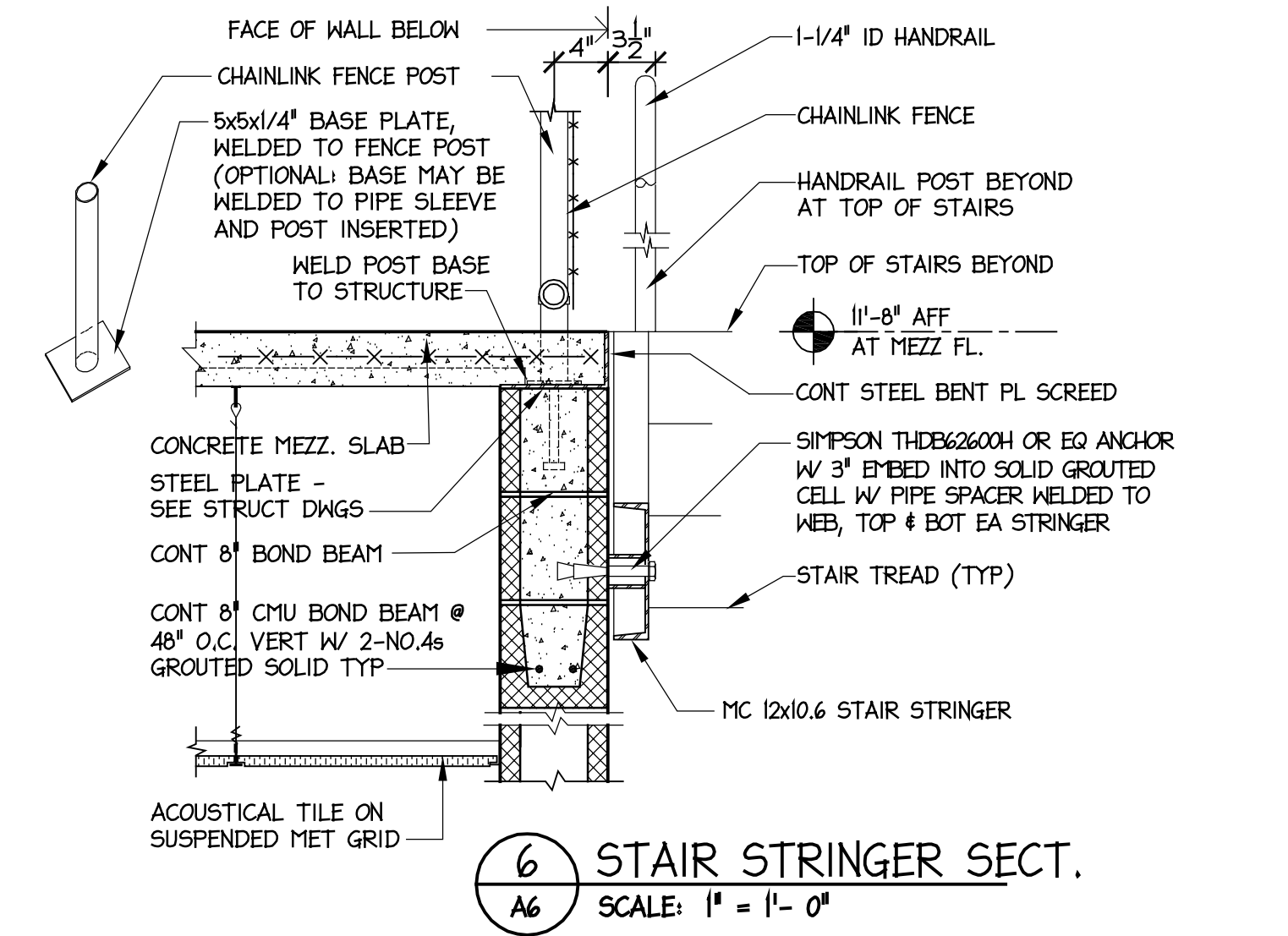


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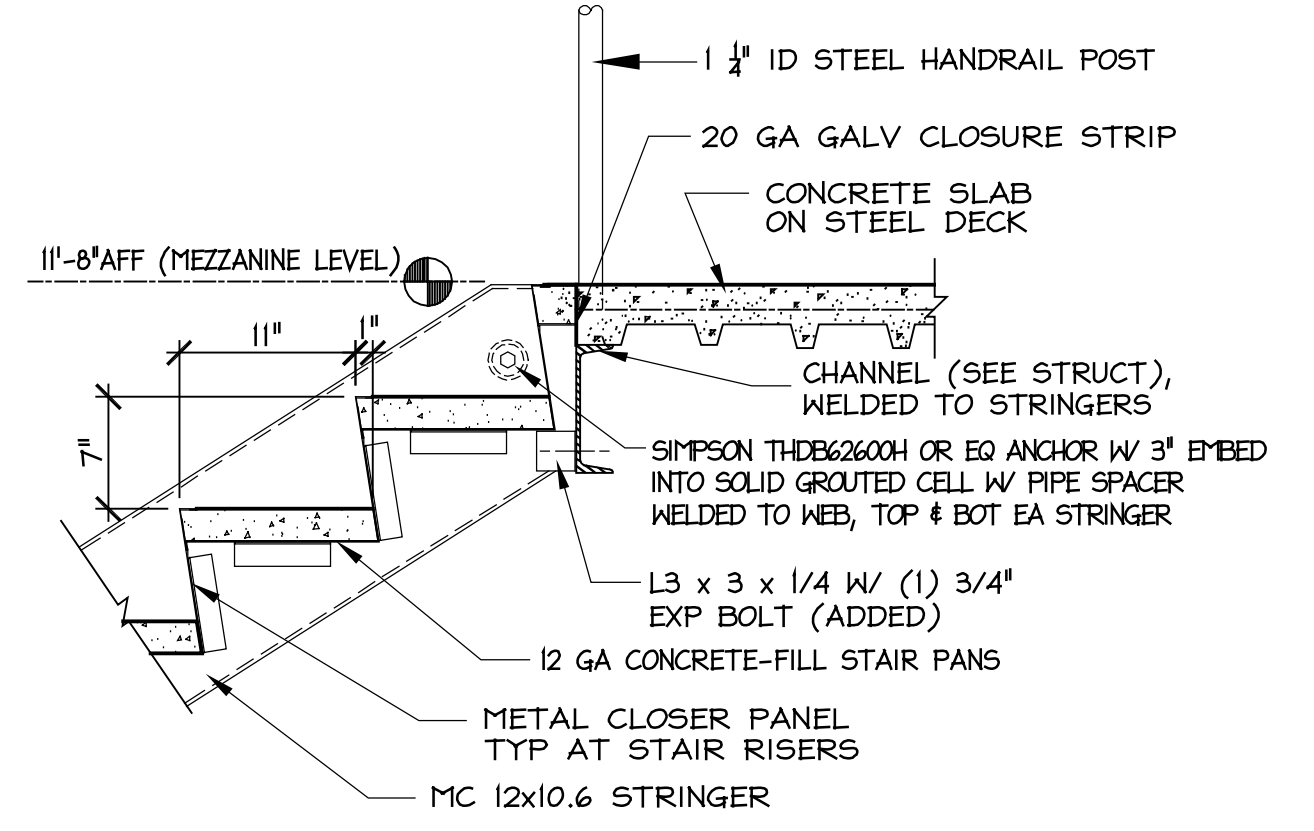
GENERAL NOTES:
1. GC SHALL COORDINATE ELEVATION OF LIGHTS, HEATERS, & OTHER DEVICES IN WORK BAYS TO BE 8" MINIMUM ABOVE BRIDGE CRANE, SECTIONAL DOOR TRACKS, ETC.. RUN PIPING, CONDUIT, ETC. TIGHT TO BUILDING STRUCTURE.



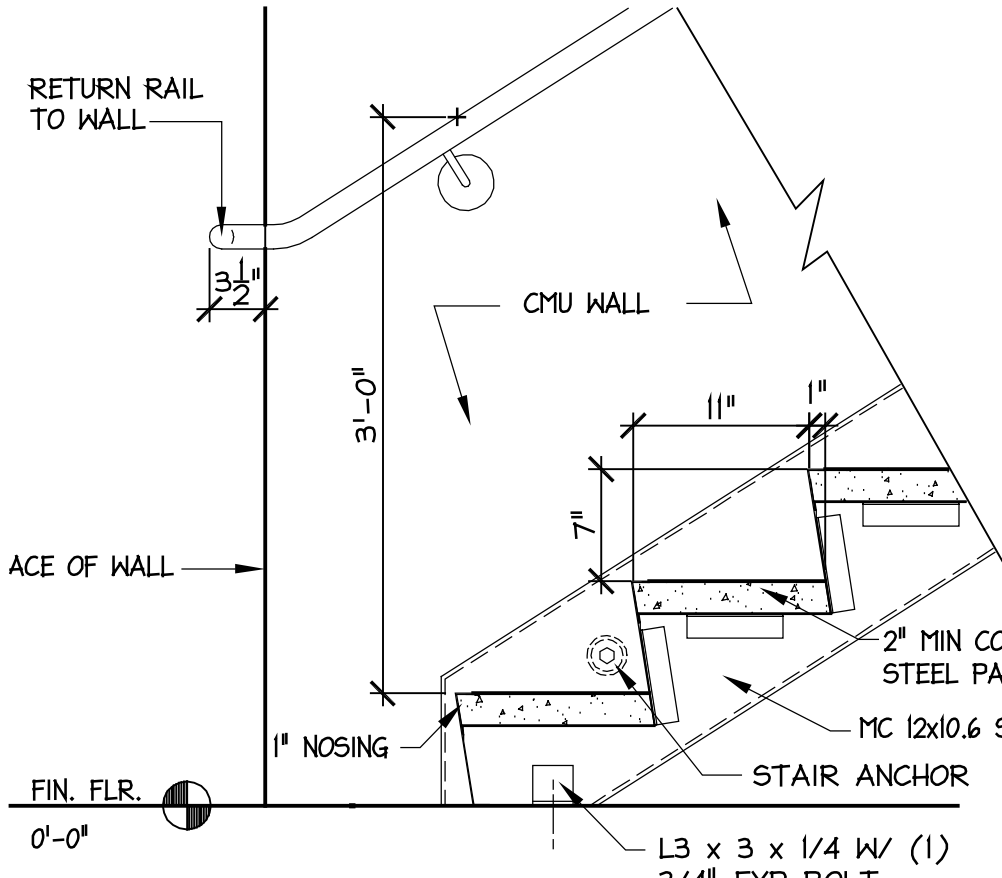
3 BUILDING SECTION
SCALE: 1/8" = 1'-0"



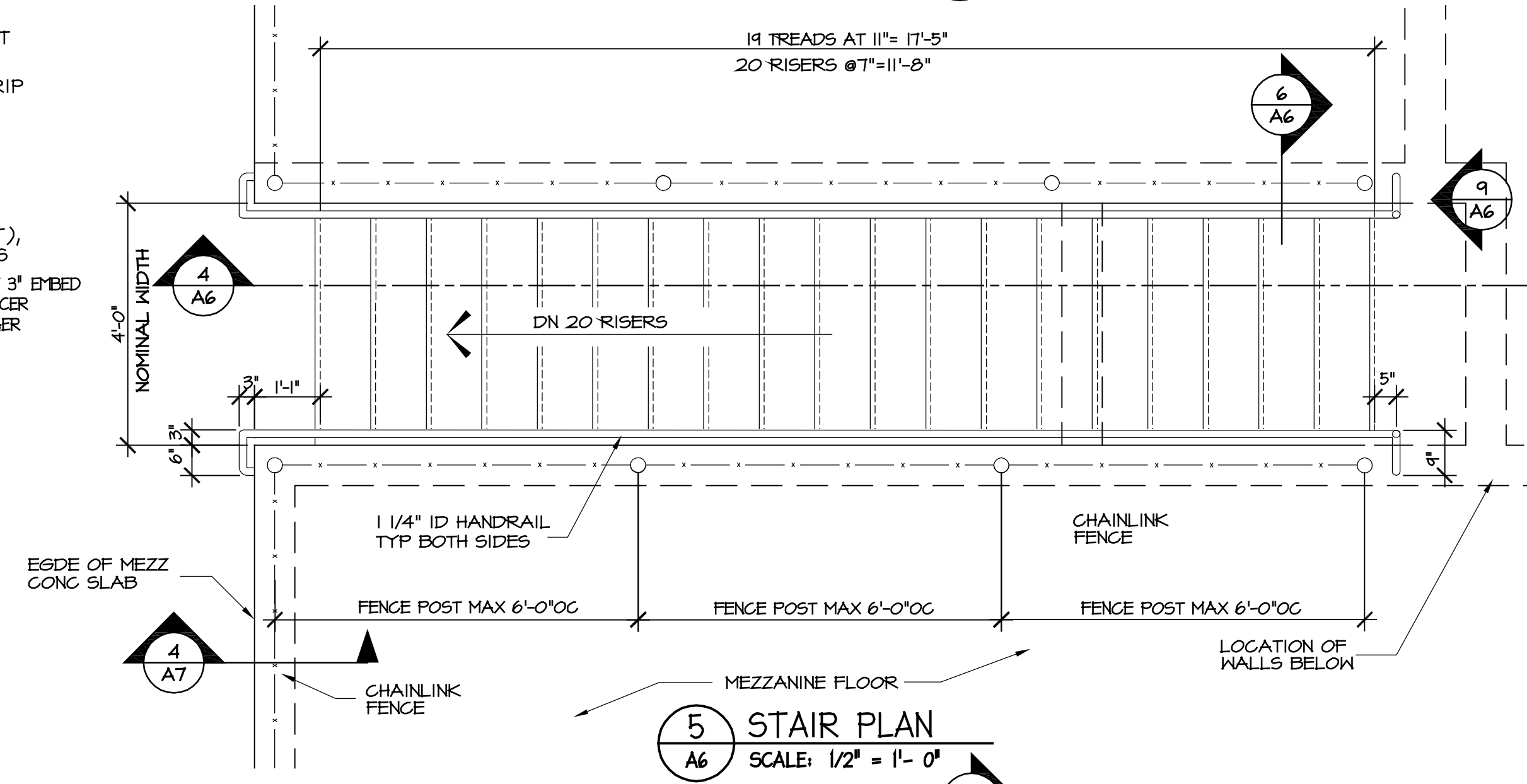
6 STAIR STRINGER SECT.
SCALE: 1" = 1'-0"



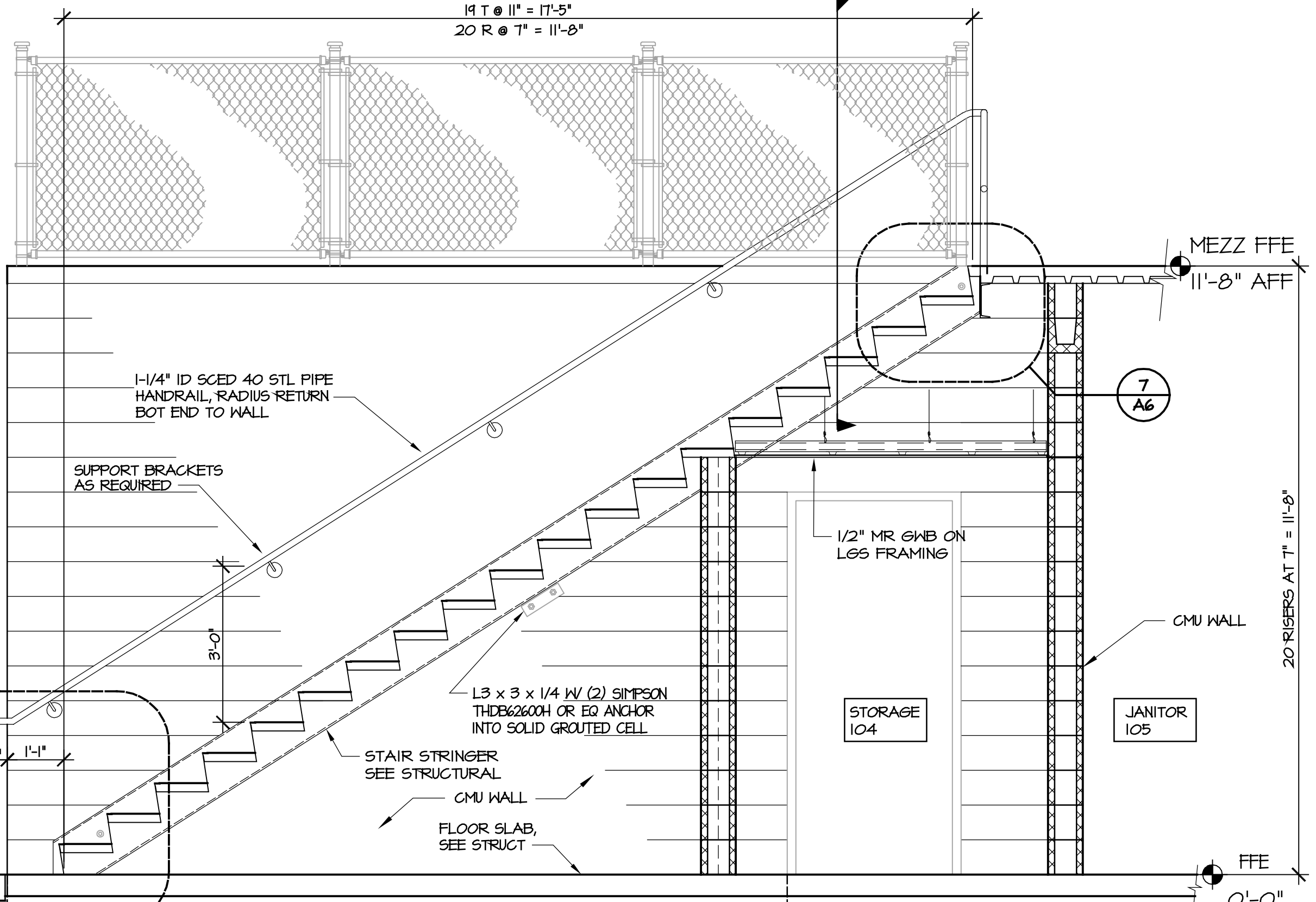
7 STAIR DETAIL @ MEZZANINE
SCALE: 1" = 1'-0"



8 STAIR DETAIL @ FLOOR
SCALE: 1" = 1'-0"



5 STAIR PLAN
SCALE: 1/2" = 1'-0"



4 STAIR SECTION
SCALE: 1/2" = 1'-0"

9 HAND RAIL EXT.
SCALE: 1" = 1'-0"

BIDDING DOCUMENTS

MARK DOUGLAS DESIGN
REGISTERED ARCHITECT
5121
KAY/VENTALE, A.C.

DESIGNED BY:
FACILITIES DESIGN
ARCHITECTS & ENGINEERS
FACILITIES MANAGEMENT DIVISION, NCDOT

1 SOUTH WILKINSON STREET
RALEIGH, NORTH CAROLINA 27601
PHONE 919/707-4540 FAX 919/705-0399

CONSULTANT:

BUILDING SECTIONS & DETAILS

DRAWING TITLE / DESCRIPTION

LUMBERTON EQUIPMENT SHOP
LUMBERTON EQUIPMENT DIVISION 6
NCDOT HIGHWAY DIVISION 6

872 NC 7H HIGHWAY
LUMBERTON, NORTH CAROLINA 28890

STATE CONSTRUCTION
ID.# 16-12916-01A

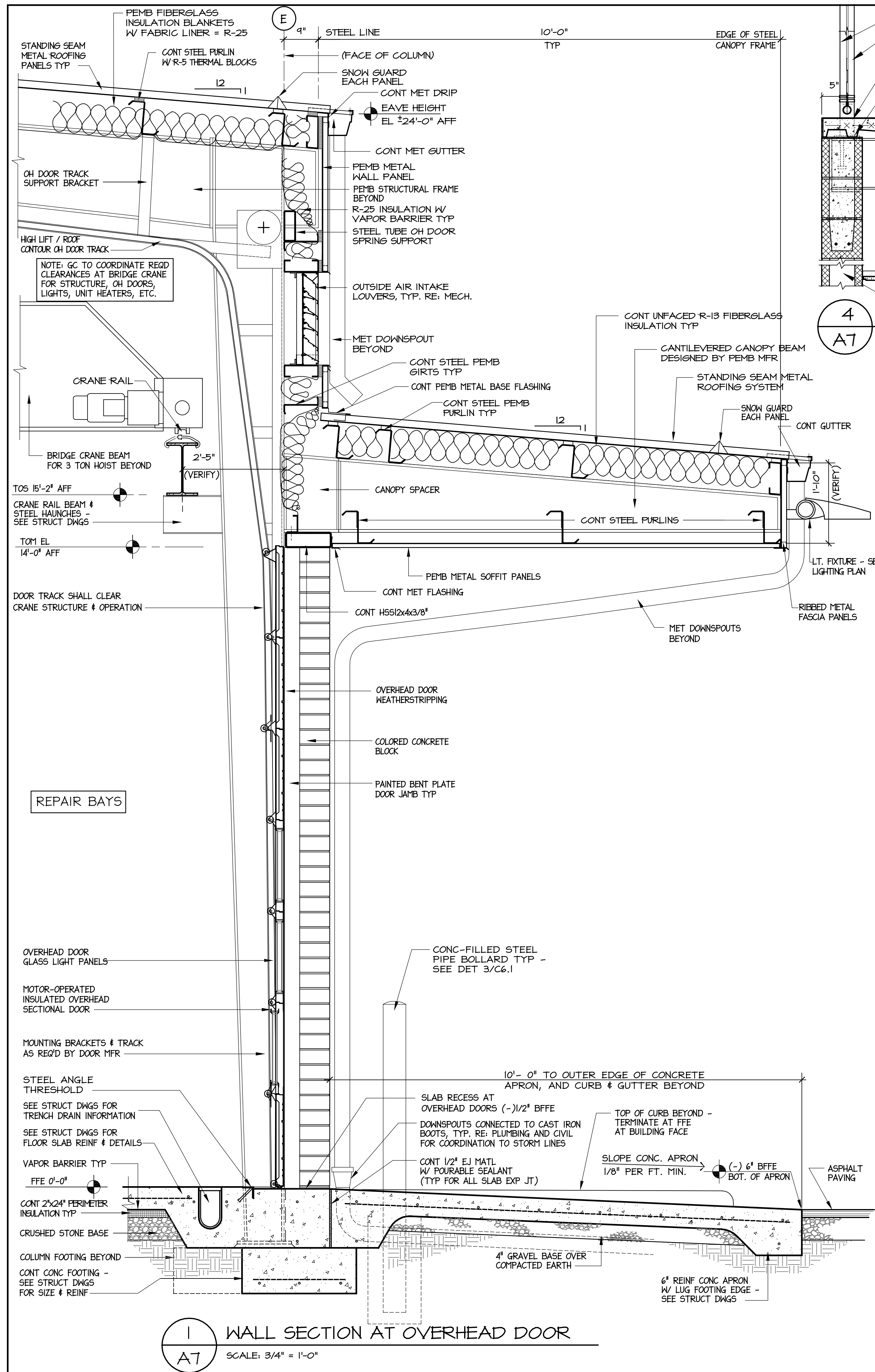
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78-06-00

REVISIONS
NO. DATE

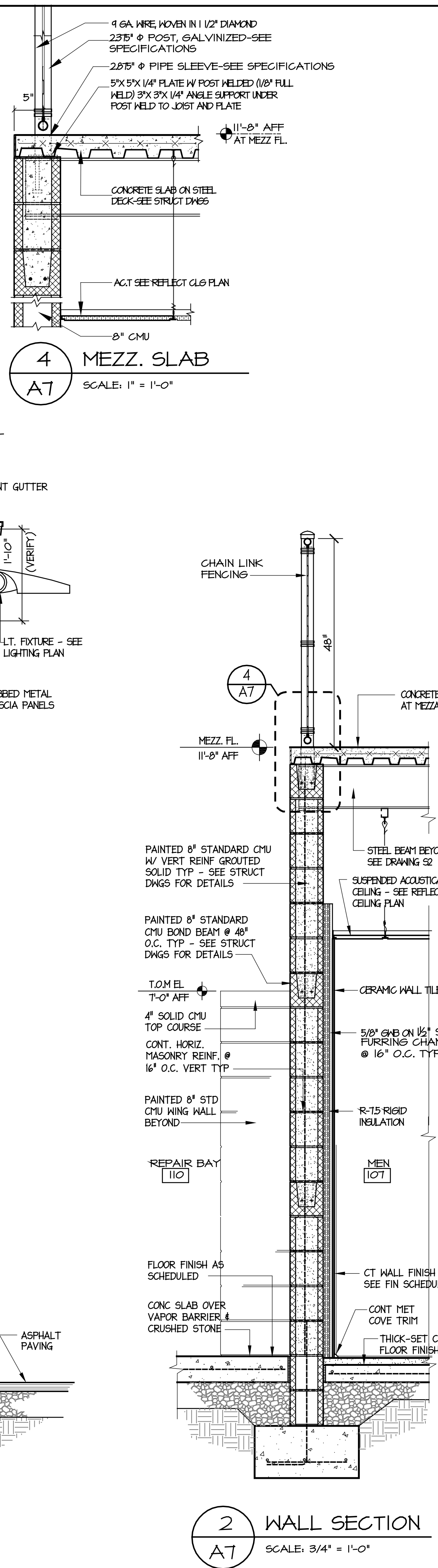
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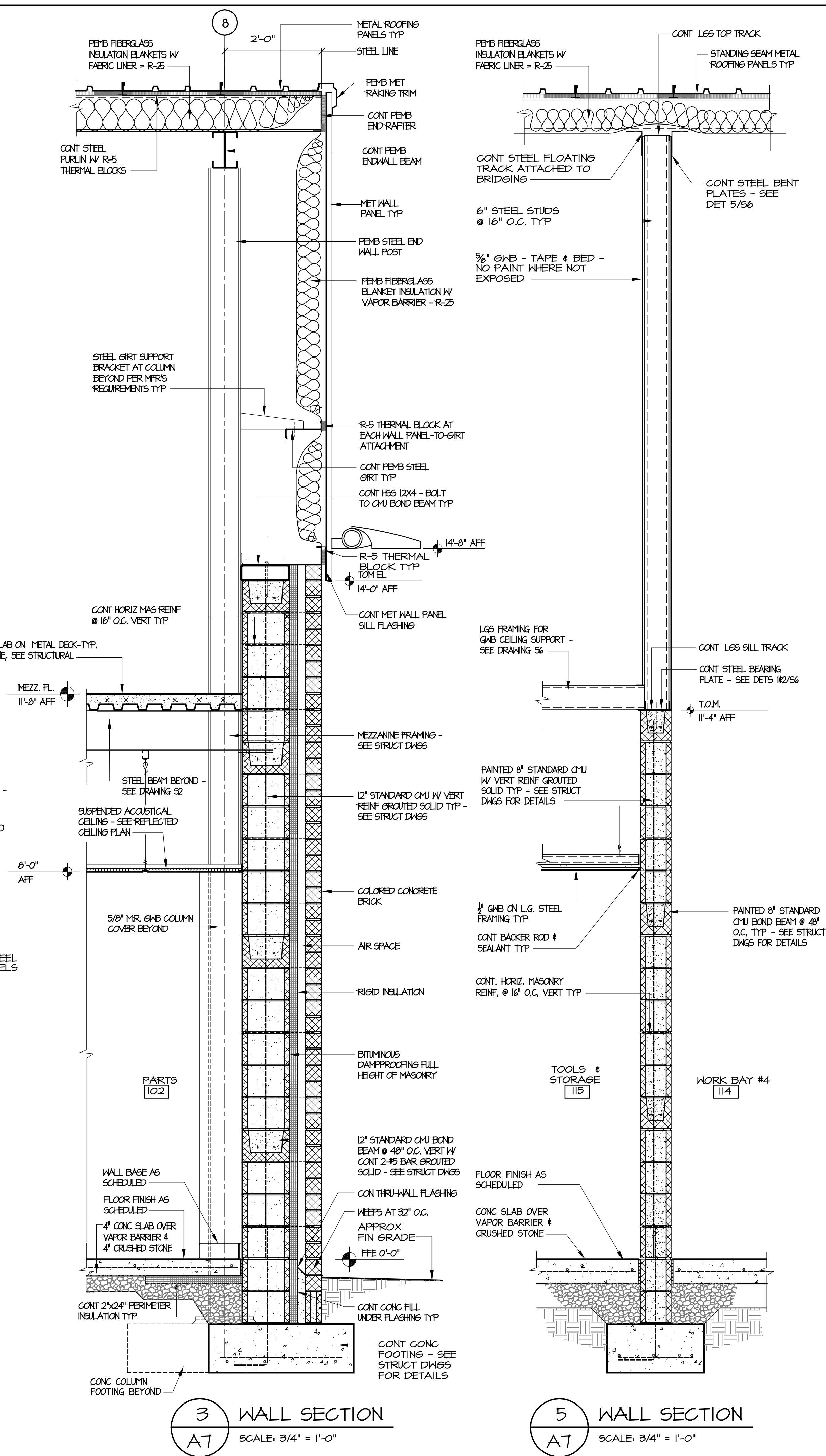
A6



1 WALL SECTION AT OVERHEAD DOOR
A7 SCALE: 3/4" = 1'-0"



2 WALL SECTION
A7 SCALE: 3/4" = 1'-0"



3 WALL SECTION
A7 SCALE: 3/4" = 1'-0"

5 WALL SECTION
A7 SCALE: 3/4" = 1'-0"

BIDDING DOCUMENTS

MARK DOUGLAS DESIGN
DESIGNED AND
5121
KINGSTON, N.C.

FACILITIES DESIGN
ARCHITECTS & ENGINEERS
FACILITIES MANAGEMENT, NCDOT

1 SOUTH WILKINSON STREET
RALEIGH, NORTH CAROLINA 27601
PHONE 919/707-4540 FAX 919/705-0399

DESIGNED BY:

CONSULTANT:

WALL SECTIONS & DETAILS

DRAWING TITLE / DESCRIPTION:

LUMBERTON EQUIPMENT SHOP
NCDOT HIGHWAY DIVISION 6

PROJECT TITLE:

872 NC 711 HIGHWAY
LUMBERTON, NORTH CAROLINA 28890

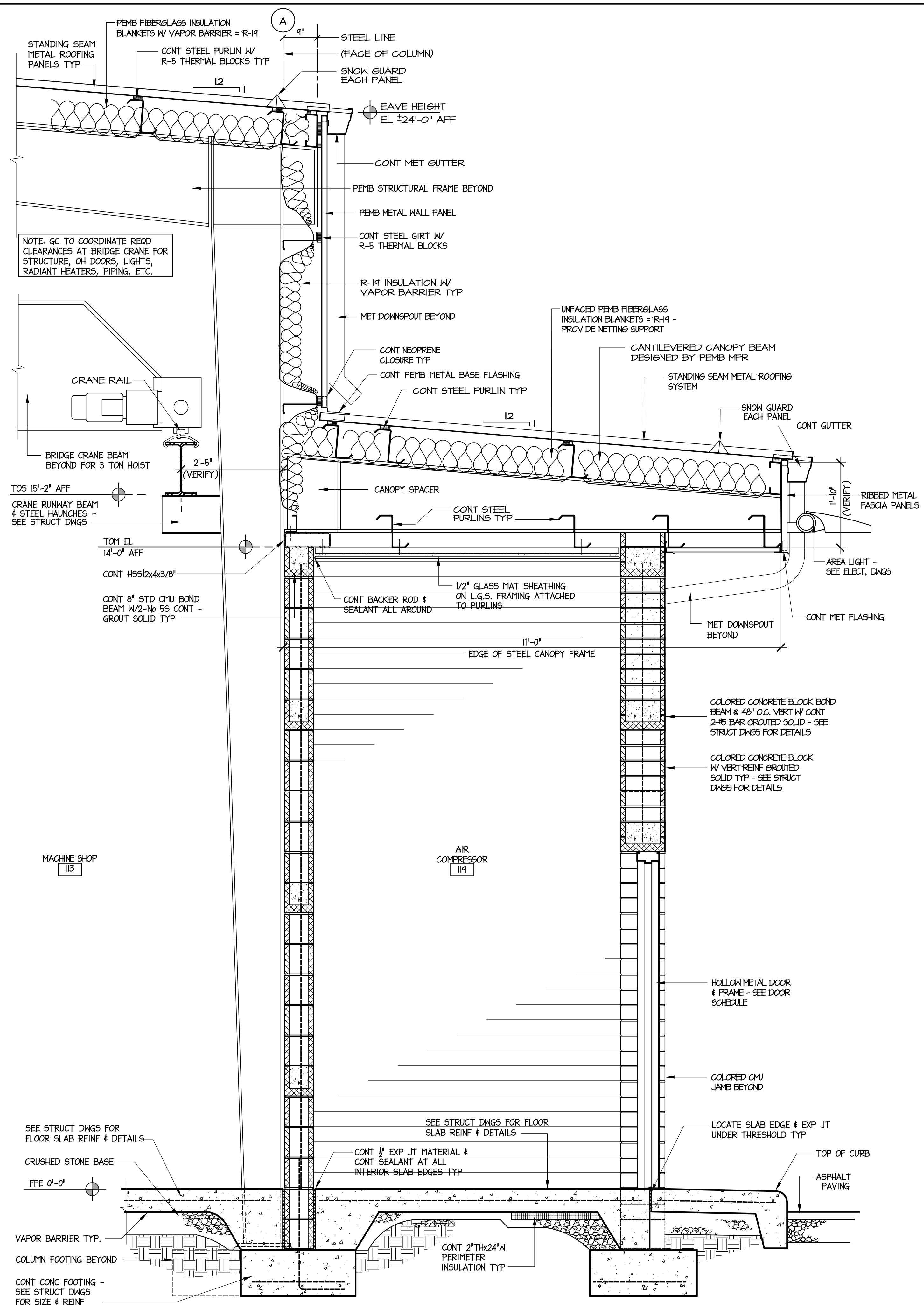
STATE CONSTRUCTION
ID.# 16-12916-01A

ASSET NUMBER:
CO.# SITE.# BLDG.#
78-06-00

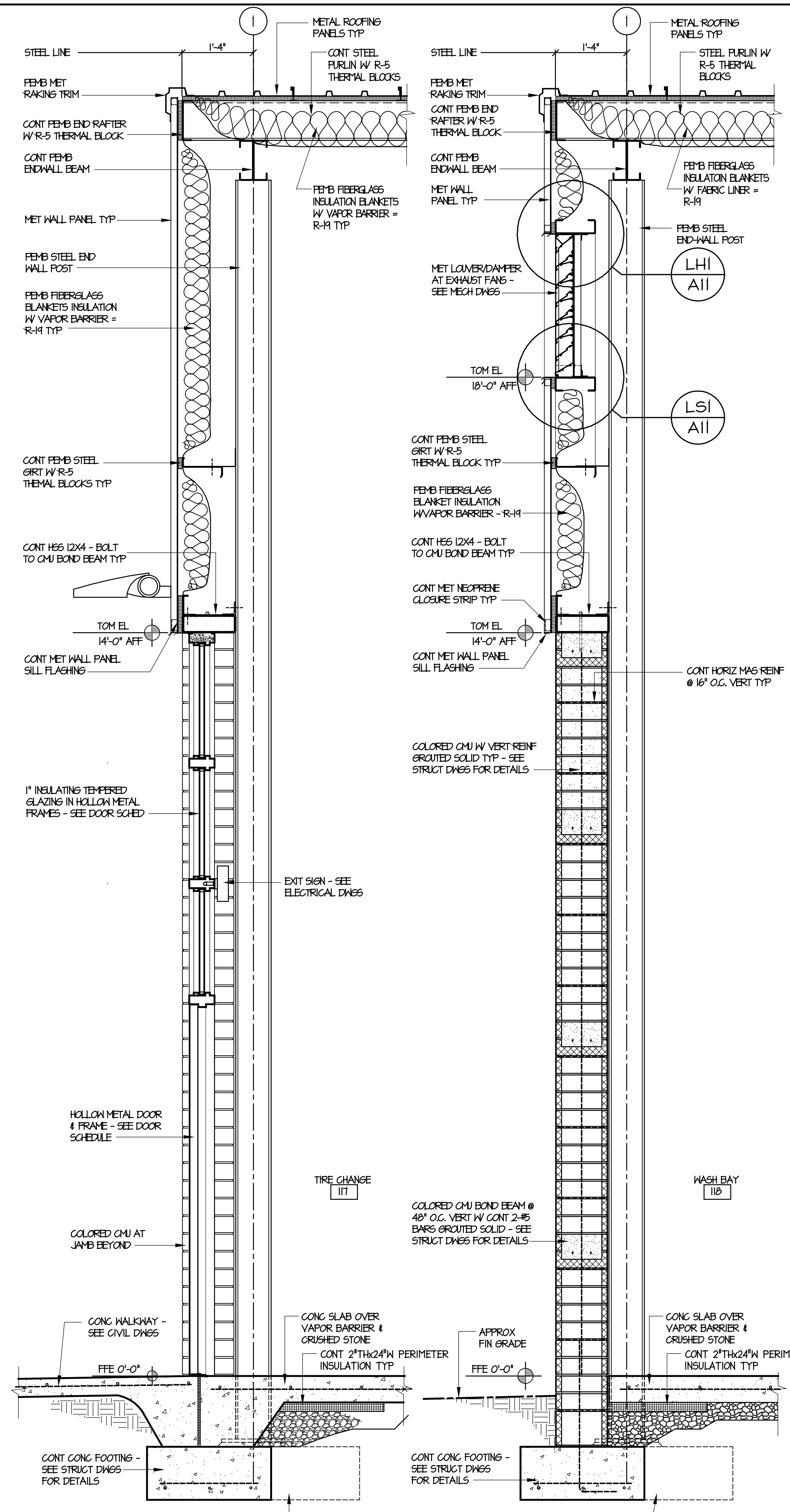
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NO. DATE

DATE ISSUED: 12/15/2017
DRAWN BY:
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SHEET NO.

A7

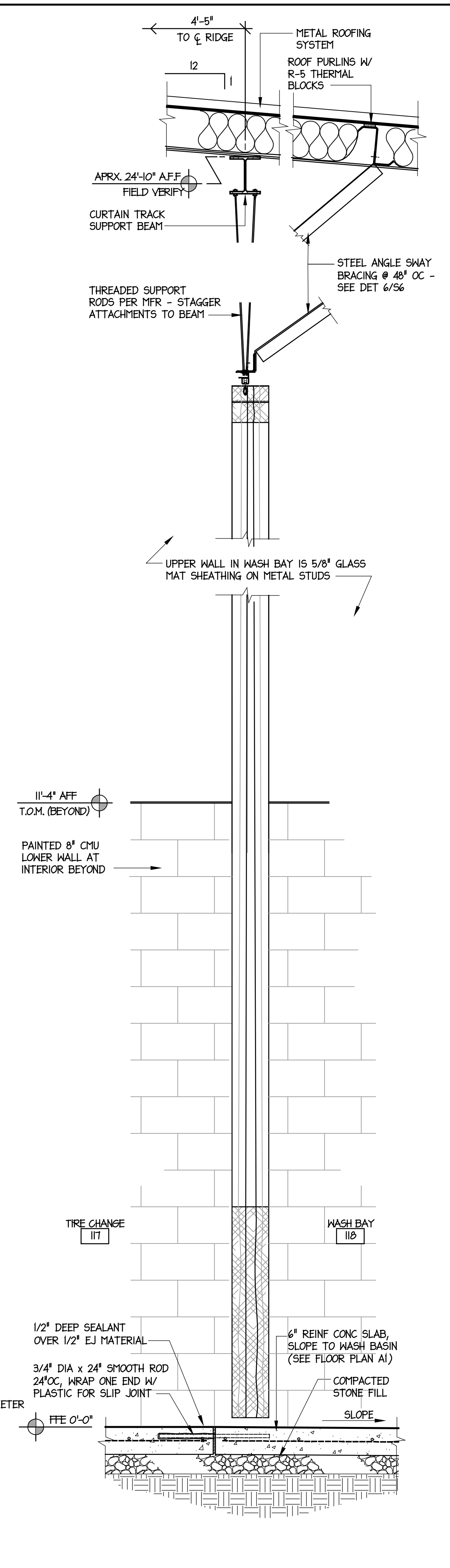


1 WALL SECTION AT AIR COMPRESSOR RM
A8 SCALE: 3/4" = 1'-0"



2 WALL SECTION
A8 SCALE: 3/4" = 1'-0"

3 WALL SECTION
A8 SCALE: 3/4" = 1'-0"



4 WALL SECTION
A8 SCALE: 3/4" = 1'-0"

BIDDING DOCUMENTS

MARK DOUGLAS DESIGN
 REGISTERED ARCHITECT
 5121
 W. HARRIS ST.
 CHARLOTTE, NC

DESIGNED BY:
FACILITIES DESIGN ARCHITECTS & ENGINEERS
 FACILITIES MANAGEMENT DIVISION, NCDOT

1 SOUTH WILKINSON STREET
 RALEIGH, NORTH CAROLINA 27601
 PHONE 919/707-6540 FAX 919/705-0399

CONSULTANT:

DRAWING TITLE / DESCRIPTION
WALL SECTIONS & DETAILS

PROJECT TITLE
LUMBERTON EQUIPMENT SHOP
 NCDOT HIGHWAY DIVISION 6
 872 NC 7th HIGHWAY
 LUMBERTON, NORTH CAROLINA 28880

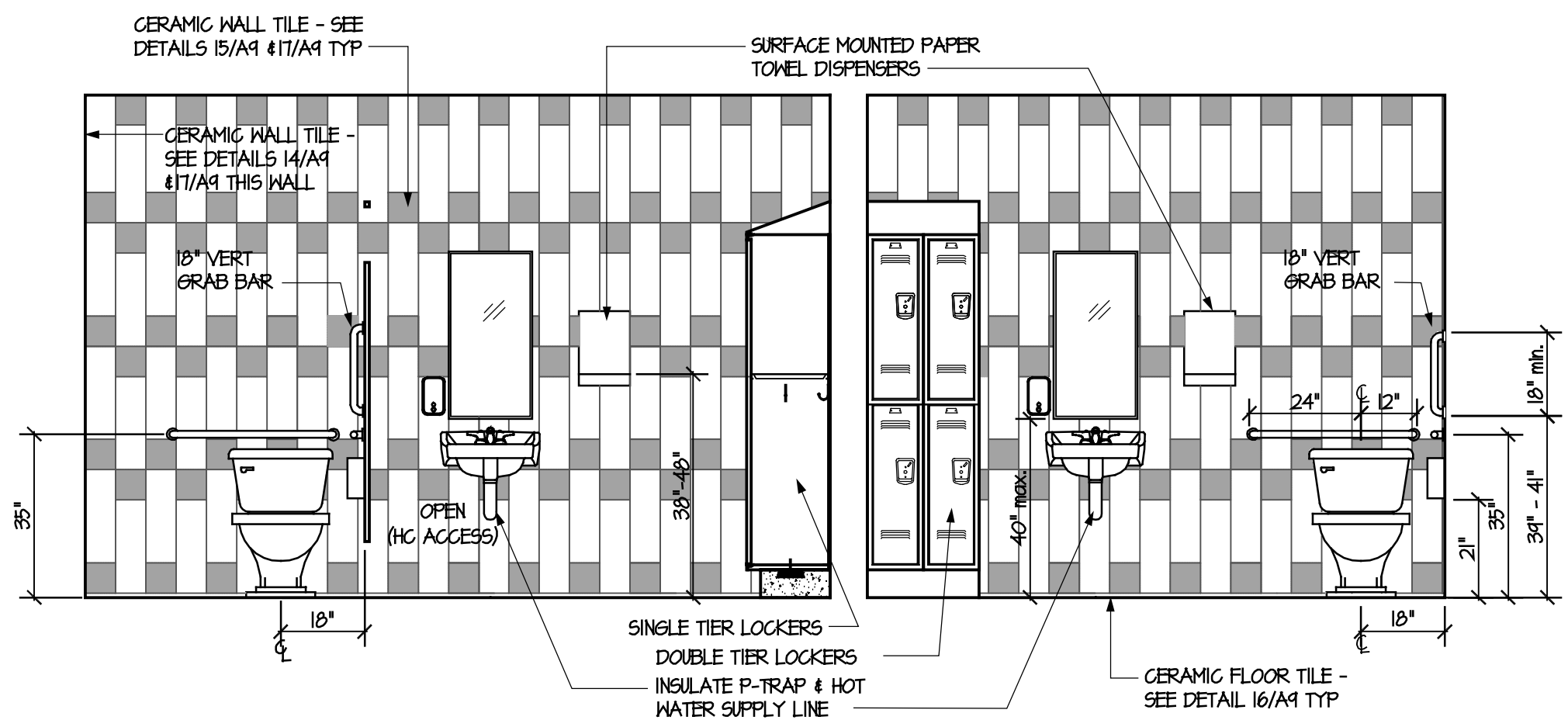
STATE CONSTRUCTION ID.# 16-12916-01A

ASSET NUMBER:
 CO.# SITE.# BLDG.#
 78 - 06 - 00

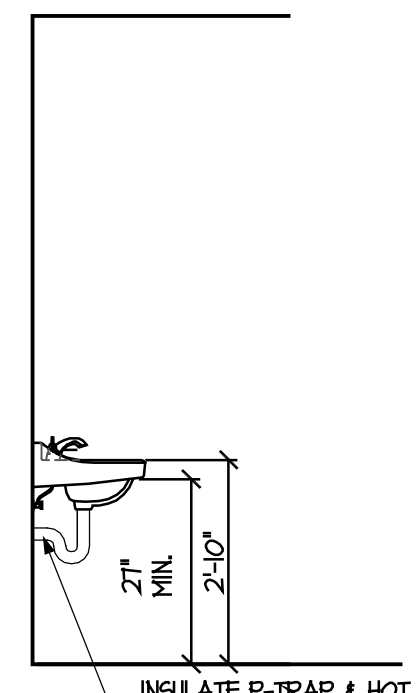
REVISIONS NO.	DATE

DATE ISSUED: 12/15/2017
 DRAWN BY:
 CHECKED BY:
 SHEET NO.

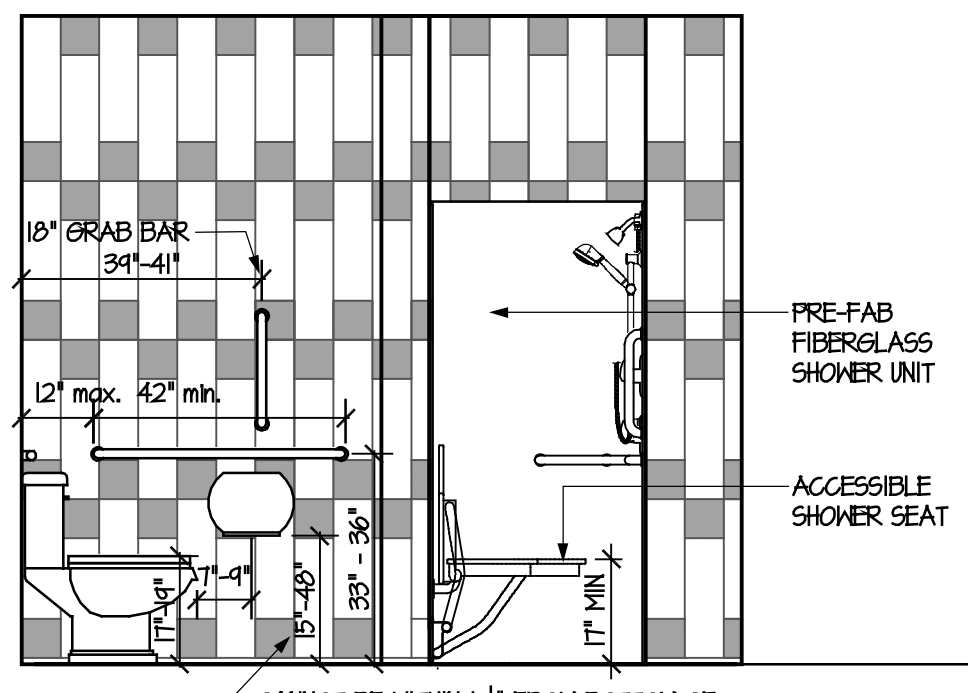
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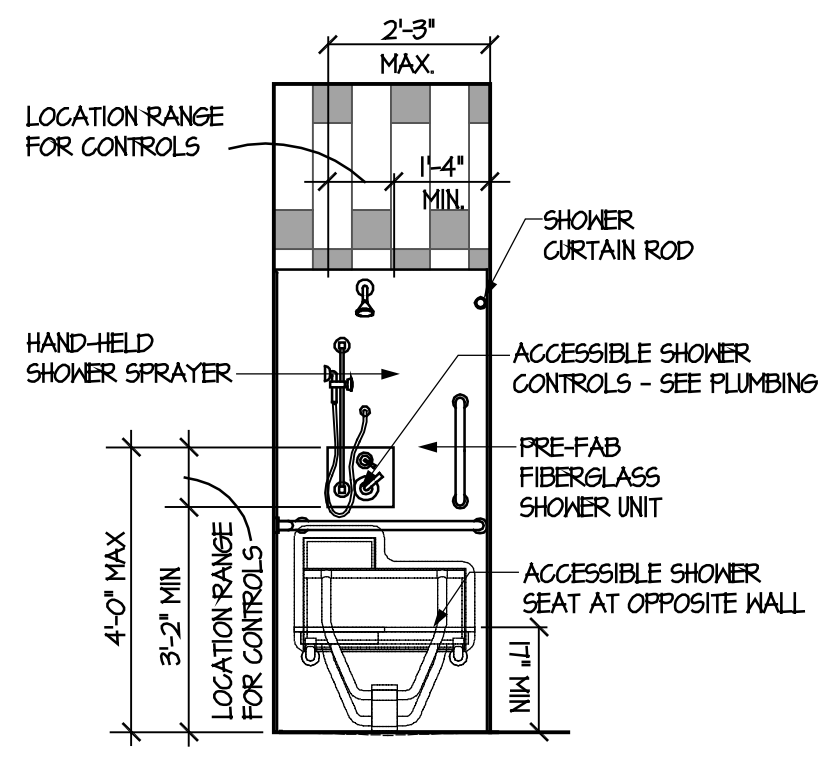
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A9 SCALE: 3/8" = 1'-0"



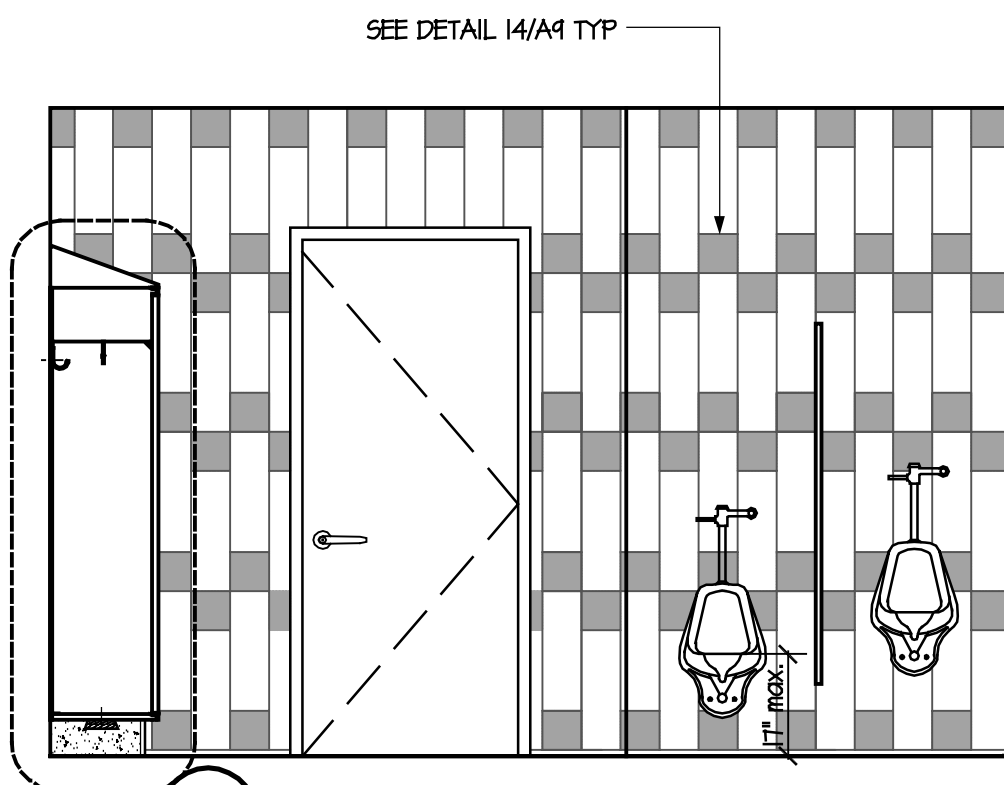
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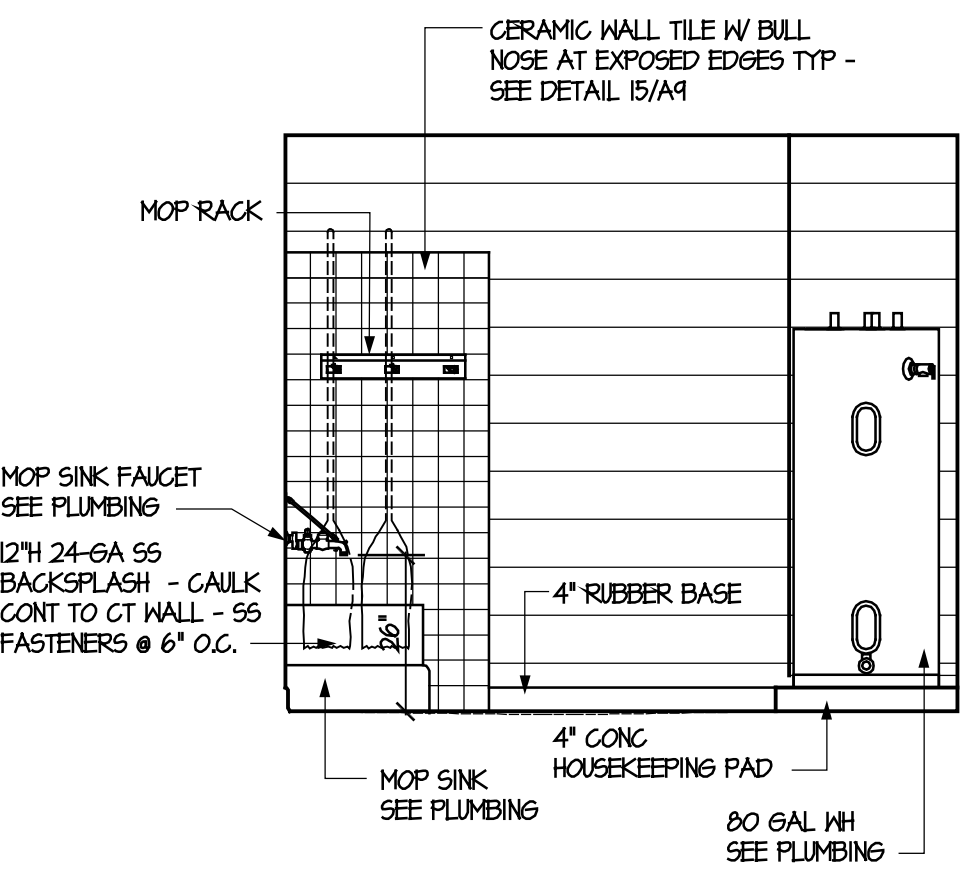
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A9 SCALE: 3/8" = 1'-0"



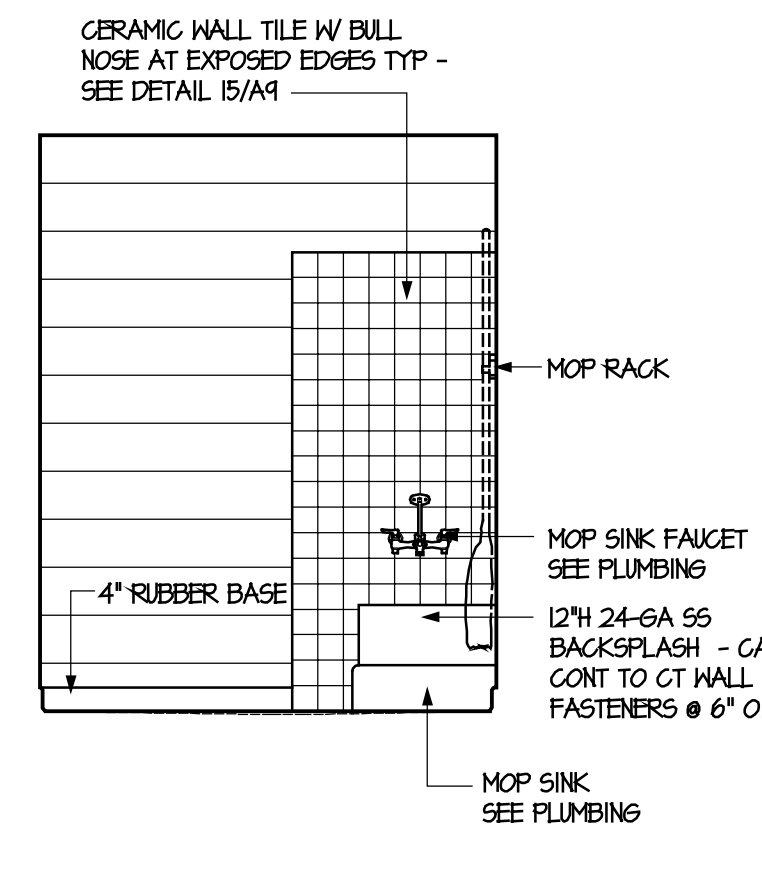
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A9 SCALE: 3/8" = 1'-0"



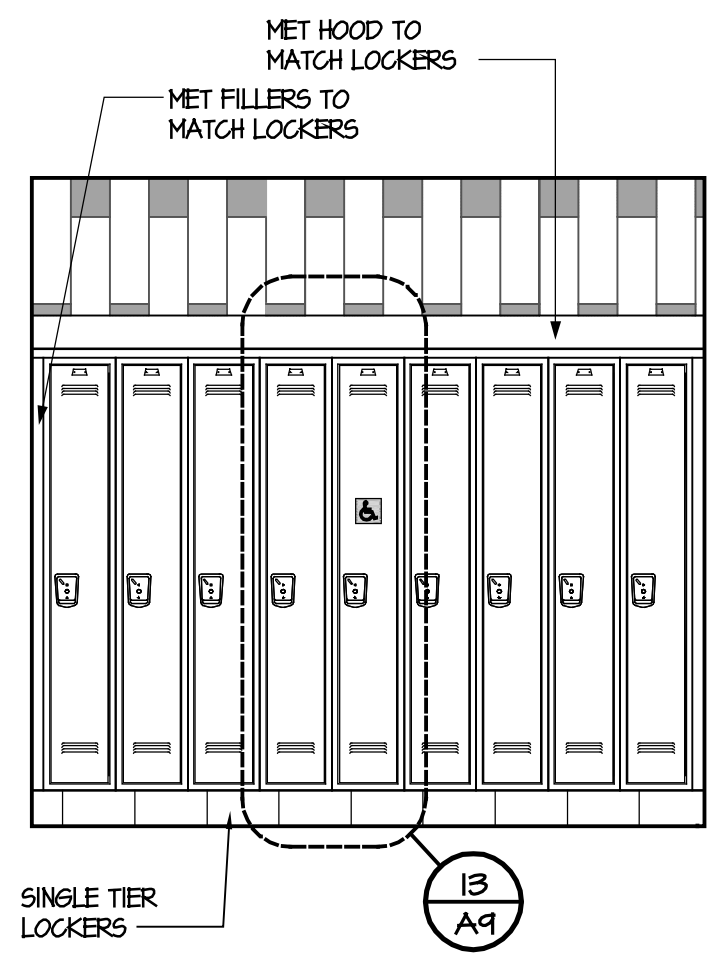
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A9 SCALE: 3/8" = 1'-0"



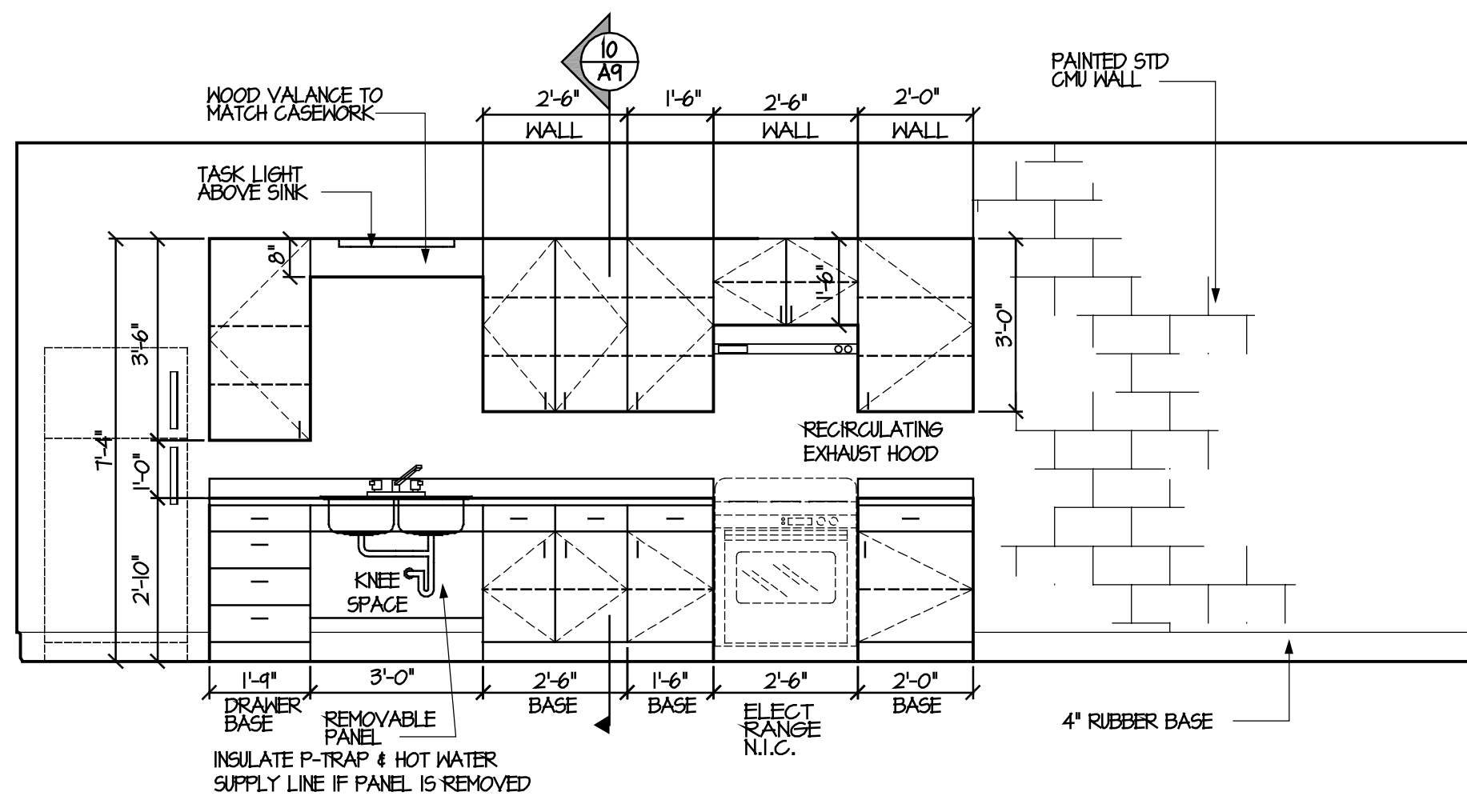
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A9 SCALE: 3/8" = 1'-0"



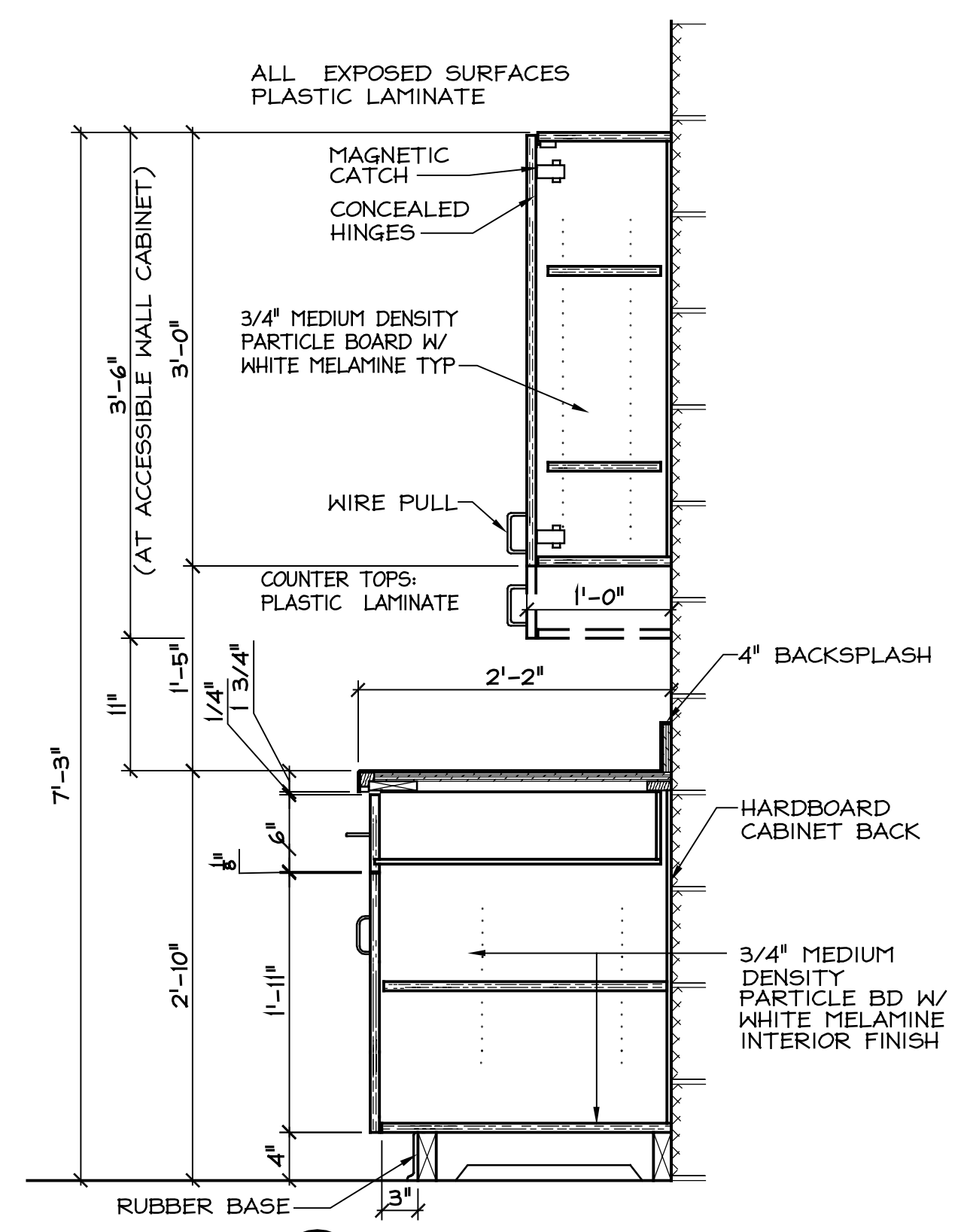
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A9 SCALE: 3/8" = 1'-0"



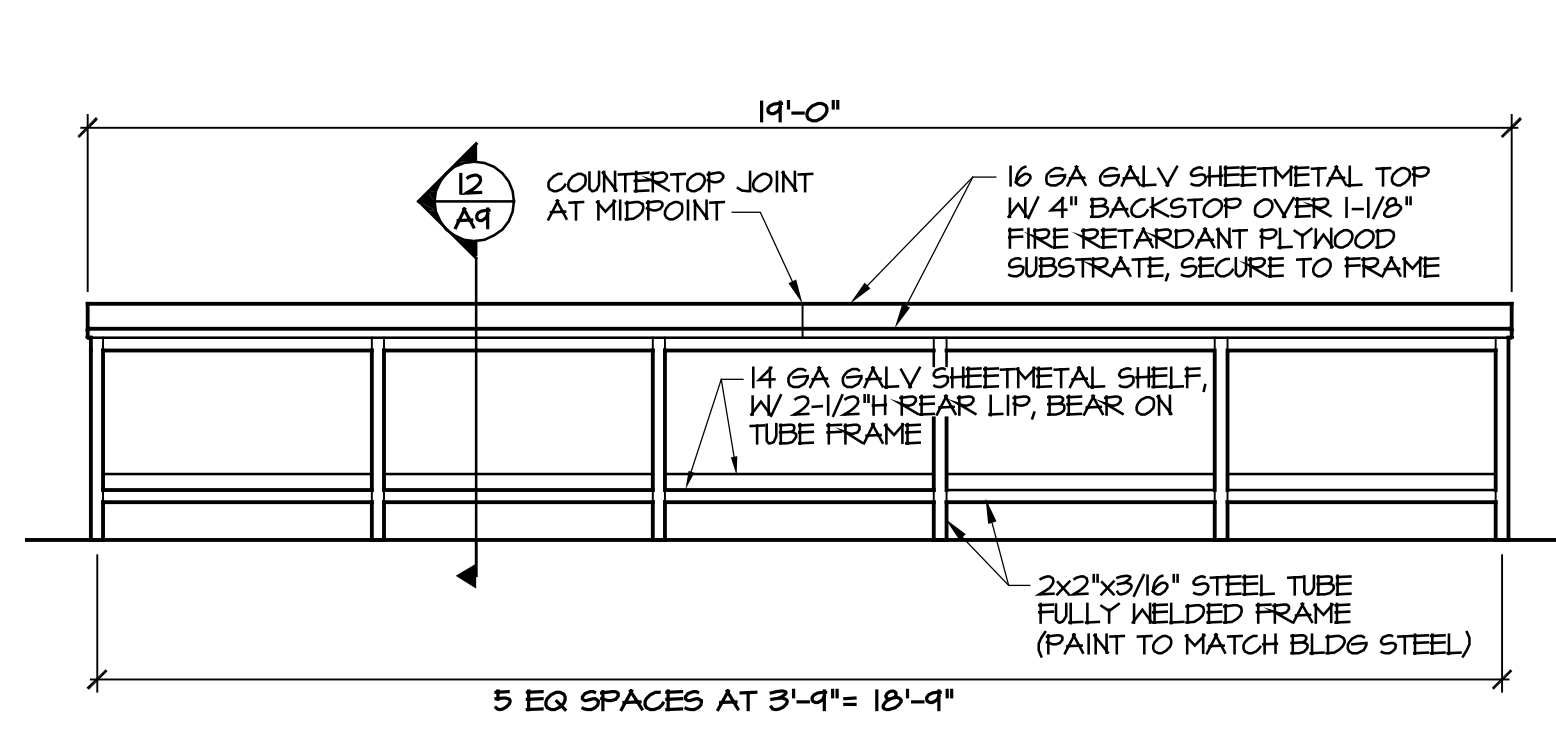
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A9 SCALE: 3/8" = 1'-0"



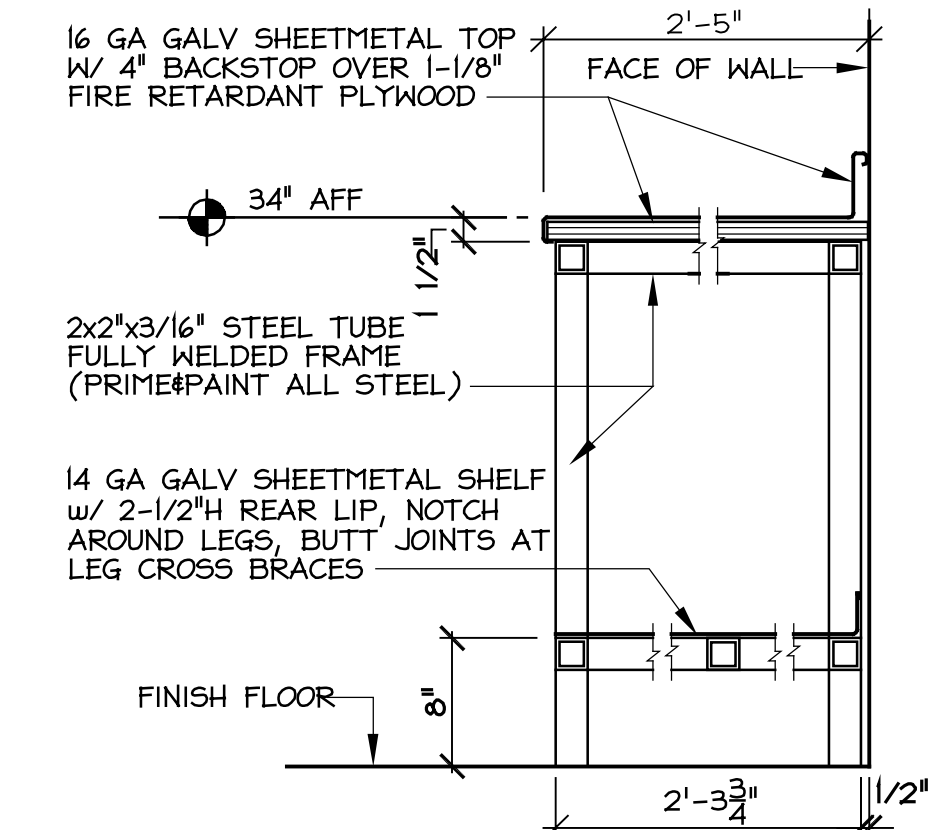
9 INTERIOR ELEVATION
A9 SCALE: 3/8" = 1'-0"



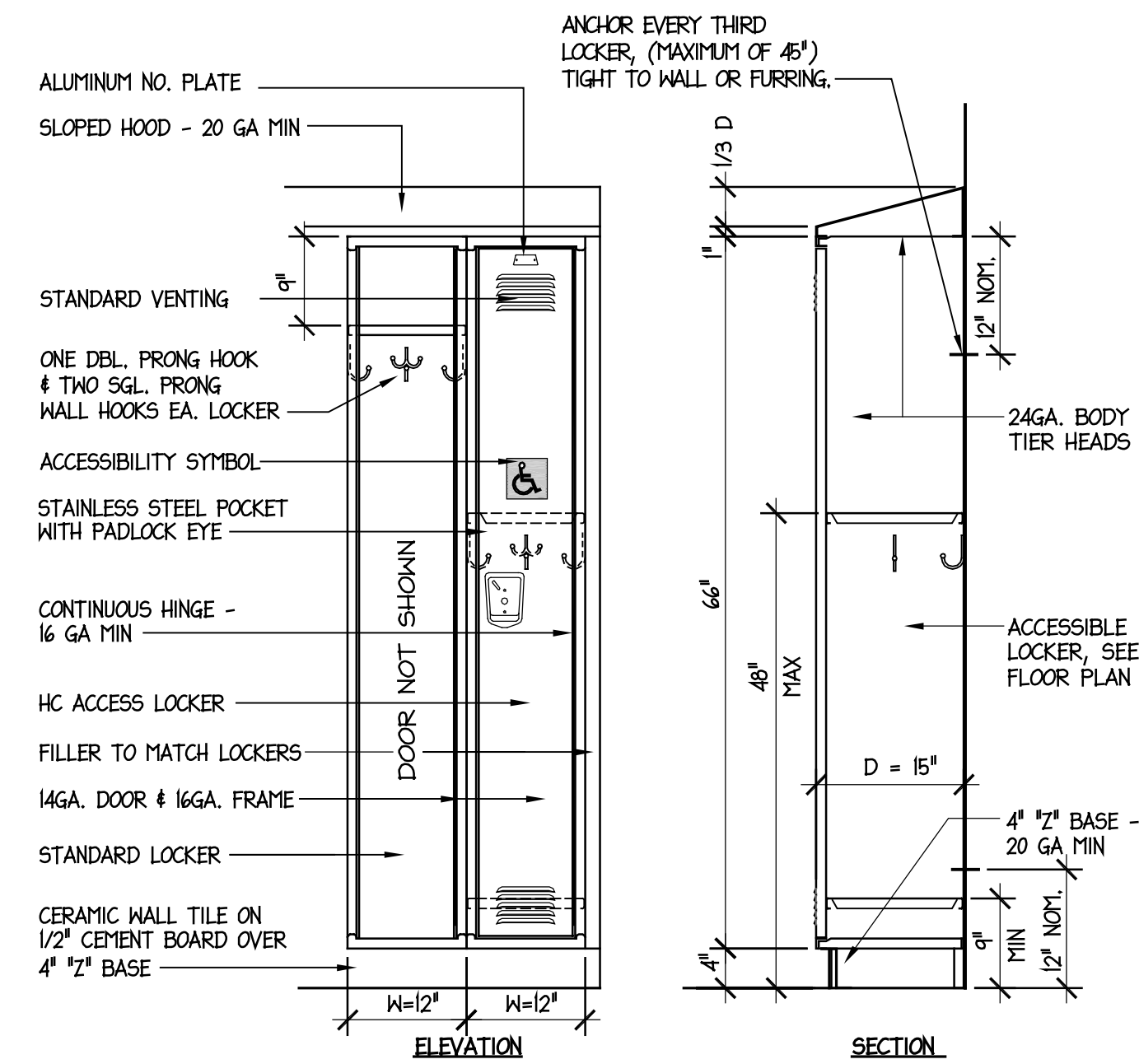
10 CASEWORK SECTION
A9 SCALE: 1" = 1'-0"



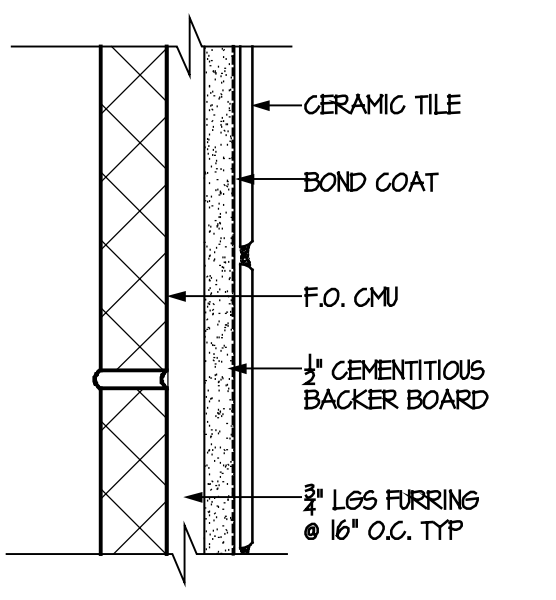
11 WORK BENCH ELEVATION
A9 SCALE: 3/8" = 1'-0"



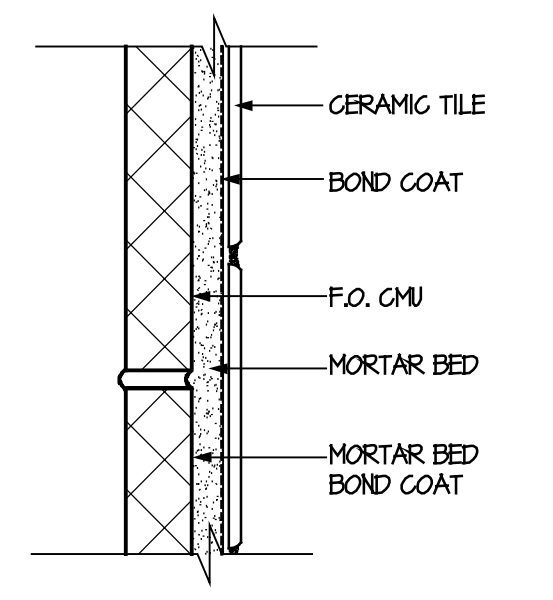
12 WORK BENCH SECTION
A9 SCALE: 1" = 1'-0"



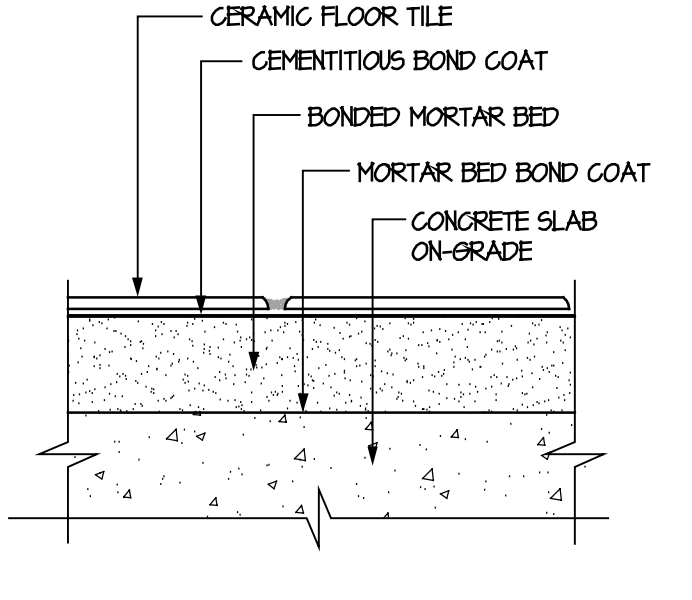
13 LOCKER SECTION
A9 SCALE: 3/4" = 1'-0"



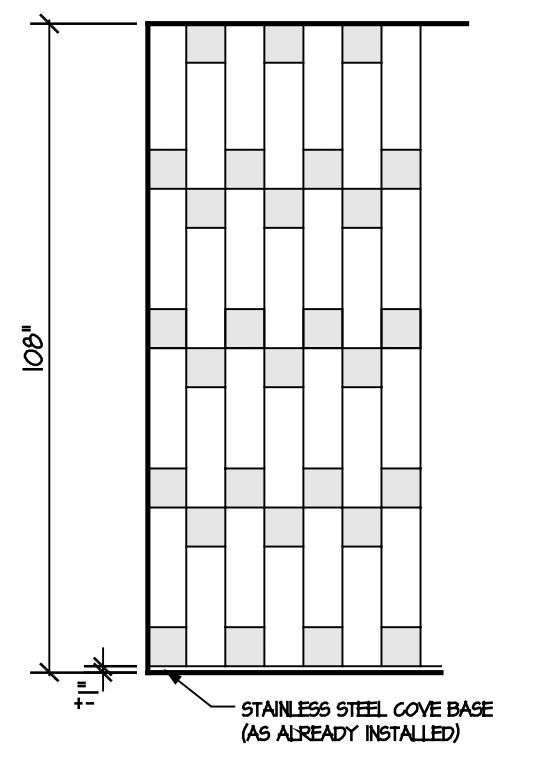
14 CERAMIC WALL TILE DETAIL
A9 SCALE: 3" = 1'-0" TCA W244C-12



15 CERAMIC WALL TILE DETAIL
A9 SCALE: 3" = 1'-0" TCA W211-12

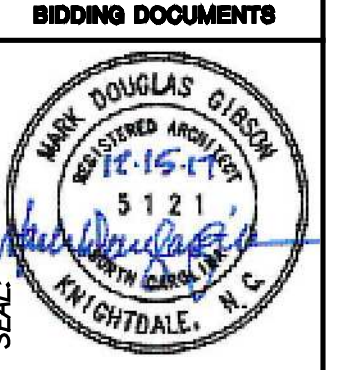


16 CERAMIC FLOOR TILE DETAIL
A9 SCALE: 3" = 1'-0" TCA F112-12

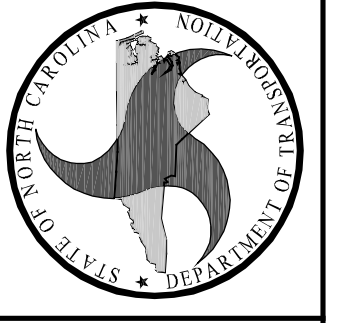


17 CERAMIC WALL TILE PATTERN
A9 SCALE: 3/8" = 1'-0"

LEGEND UNEX 106, MEN 107	
WALL:	DALTELE-VERANDA SOLIDS
	STEEL F500 (6-12"x 20")
	GANMETAL F504 (6-12"x 6-12")
FLOOR:	DALTELE-VERANDA SOLIDS
	GANMETAL F504 (18"x 18")
GRID - WALL:	TED
GRID - FLOOR:	TED



DESIGNED BY:
FACILITIES DESIGN
ARCHITECTS & ENGINEERS
FACILITIES MANAGEMENT DIVISION, INDDOT
1 SOUTH WILMINGTON STREET
RALEIGH, NORTH CAROLINA 27601
PHONE 919/707-4540 FAX 919/706-0899



CONSULTANT:

INTERIOR ELEVATIONS & DETAILS

PROJECT TITLE:
LUMBERTON EQUIPMENT SHOP
NCDOT HIGHWAY DIVISION 6
872 NC 771 HIGHWAY
LUMBERTON, NORTH CAROLINA 28390

STATE CONSTRUCTION
ID.# 16-12916-01A

ASSET NUMBER:
CO.# SITE.# BLDG.#
78-06-00

REVISIONS	DATE
NO.	

DATE ISSUED: 12/15/2017
DRAWN BY:
CHECKED BY:
SHEET NO.

A9

FINISH SCHEDULE

NO.	ROOM NAME	FLOOR		BASE		WALLS				CEILING			REMARKS				
		SUB.	FIN.	SUB.	FIN.	NORTH		WEST		SOUTH		EAST					
						SUB.	FIN.	SUB.	FIN.	SUB.	FIN.	SUB.		FIN.			
101	OFFICE	CONC.	VCT	CMU	RB	CMU	PAINT	GMB	PAINT	CMU	PAINT	CMU	PAINT	SMG	ACT	9'-4"	
102	PARTS	CONC.	VCT	CMU	RB	GMB	PAINT	GMB	PAINT	CMU	PAINT	CMU	PAINT	SMG	ACT	9'-0"	
103	CORRIDOR	CONC.	SEALER	CMU	RB	CMU	PAINT	CMU	PAINT	CMU	PAINT	CMU	PAINT	SMG	ACT	9'-0"	
104	STORAGE	CONC.	SEALER	CMU	RB	CMU	PAINT	CMU	PAINT	CMU	PAINT	CMU	PAINT	SMG	ACT	9'-0"	
105	JANITOR	CONC.	SEALER	CMU	RB	CMU	PAINT / CNT	CMU	PAINT	CMU	PAINT	CMU	PAINT / CNT	SMG	ACT	9'-0"	CNT 4" W x 6" H ON NIE WALLS
106	UNISEX	CONC.	CFT	CMU	CBT	CMU	CNT	CMU	CNT	CMU	CNT	CMU	CNT	SMG	ACT	9'-0"	
107	MEN	CONC.	CFT	CMU	CBT	CMU	CNT	CMU	CNT	CMU	CNT	CMU	CNT	SMG	ACT	9'-0"	
108	BREAK ROOM	CONC.	VCT	CMU	RB	CMU	PAINT	CMU	PAINT	CMU	PAINT	CMU	PAINT	SMG	ACT	9'-4"	
109	UTILITY	CONC.	SEALER	CMU	RB	CMU	PAINT	CMU	PAINT	CMU	PAINT	CMU	PAINT	OPEN TO STRUCTURE	PAINT	---	
110	WORK BAY NO. 1	CONC.	HARDENER	CMU	---	CMU / PEMB	PAINT / FF	---	---	CMU / PEMB	PAINT / FF	CMU	PAINT	OPEN TO STRUCTURE	PAINT	---	
111	WORK BAY NO. 2	CONC.	HARDENER	CMU	---	CMU / PEMB	PAINT / FF	---	---	CMU / PEMB	PAINT / FF	---	---	OPEN TO STRUCTURE	PAINT	---	
112	WORK BAY NO. 3	CONC.	HARDENER	CMU	---	CMU / PEMB	PAINT / FF	---	---	CMU / PEMB	PAINT / FF	---	---	OPEN TO STRUCTURE	PAINT	---	
113	MACHINE SHOP	CONC.	HARDENER	CMU	---	CMU / PEMB	PAINT / FF	CMU / GMB	PAINT	CMU	PAINT	CMU	PAINT	OPEN TO STRUCTURE	PAINT	---	
114	WORK BAY NO. 4	CONC.	HARDENER	CMU	---	CMU	PAINT	CMU / GMB	PAINT	CMU / PEMB	PAINT / FF	---	---	OPEN TO STRUCTURE	PAINT	---	
115	TOOLS AND STORAGE	CONC.	SEALER	CMU	---	CMU	PAINT	CMU	PAINT	CMU	PAINT	CMU	PAINT	M.R. GMB	PAINT	10'-0"	
116	TIRE STORAGE	CONC.	SEALER	CMU	---	CMU	PAINT	CMU	PAINT	CMU	PAINT	CMU	PAINT	M.R. GMB	PAINT	10'-0"	
117	TIRE CHANGE	CONC.	HARDENER	CMU	---	CMU / PEMB	PAINT / FF	CMU / PEMB	PAINT / FF	---	---	CMU / GMB	PAINT	OPEN TO STRUCTURE	PAINT	---	
118	WASH BAY	CONC.	HARDENER	CMU	---	---	---	CMU / PEMB	PAINT / FF	CMU / PEMB	PAINT / FF	CMU / GMB	PAINT	OPEN TO STRUCTURE	PAINT	---	
119	AIR COMPRESSOR	CONC.	SEALER	CMU	---	CMU	PAINT	CMU	PAINT	CMU	PAINT	CMU	PAINT	OPEN TO STRUCTURE	PAINT	---	
120	CORRIDOR	CONC.	SEALER	CMU	---	CMU / GMB	PAINT	CMU / GMB	PAINT	CMU / PEMB	PAINT / FF	---	---	OPEN TO STRUCTURE	PAINT	---	
201	MEZZANINE	CONC.	SEALER	CMU	---	PEMB	PAINT	---	---	PEMB	PAINT	PEMB	PAINT	OPEN TO STRUCTURE	PAINT	---	

DOOR & FRAME SCHEDULE

DOOR NO.	TYPE	SIZE	MAT	FINISH	GLASS	TYPE	MAT	FINISH	HARDWARE GROUP (NOTE 1)	SEE SHEET	JAMB	HEAD	THRESH	REMARKS
101	HG	3'-0"x7'-2"x1 3/4"	HM	PAINT	G2	F-3	HM	PAINT	7	S2	J4	H4	B	
102	HG	3'-0"x7'-2"x1 3/4"	HM	PAINT	G2	F-2	HM	PAINT	8	---	J2	HI	---	
104	F	3'-0"x7'-2"x1 3/4"	HM	PAINT	---	F-2	HM	PAINT	9	---	J2	HI	---	
105	F	3'-0"x7'-2"x1 3/4"	HM	PAINT	---	F-2	HM	PAINT	9	---	J2	HI	---	
106	F	3'-0"x7'-2"x1 3/4"	HM	PAINT	---	F-2	HM	PAINT	10	---	J2	HI	---	
107	F	3'-0"x7'-2"x1 3/4"	HM	PAINT	---	F-2	HM	PAINT	11	---	J2	HI	---	
108	HG	3'-0"x7'-2"x1 3/4"	HM	PAINT	G2	F-2	HM	PAINT	6	S2	J4	H4	B	
109	F	3'-0"x7'-2"x1 3/4"	HM	PAINT	---	F-2	HM	PAINT	5	---	J2	HI	---	PROVIDE PANIC HARDWARE
110A	OHS	14'-0"x14'-0"	STEEL	FF	PER MFR	---	---	---	---	V/A7	J5	V/A7	D	
110B	OHS	14'-0"x14'-0"	STEEL	FF	PER MFR	---	---	---	---	V/A7	J5	V/A7	D	
110C	HG	3'-0"x7'-2"x1 3/4"	HM	PAINT	G2	F-1	HM	PAINT	12	SI	J3	H2	A	
110D	HG	3'-0"x7'-2"x1 3/4"	HM	PAINT	G2	F-1	HM	PAINT	12	SI	J3	H2	A	
111A	OHS	14'-0"x14'-0"	STEEL	FF	PER MFR	---	---	---	---	V/A7	J5	V/A7	D	
111B	OHS	14'-0"x14'-0"	STEEL	FF	PER MFR	---	---	---	---	V/A7	J5	V/A7	D	
112A	OHS	14'-0"x14'-0"	STEEL	FF	PER MFR	---	---	---	---	V/A7	J5	V/A7	D	
112B	OHS	14'-0"x14'-0"	STEEL	FF	PER MFR	---	---	---	---	V/A7	J5	V/A7	D	
114	OHS	14'-0"x14'-0"	STEEL	FF	PER MFR	---	---	---	---	V/A7	J5	V/A7	D	
115	F	(2)3'-0"x7'-2"x1 3/4"	HM	PAINT	G2	F-2	---	---	---	---	J2	HI	---	DUST-PROOF STRIKE
117A	OHS	14'-0"x14'-0"	STEEL	FF	PER MFR	---	---	---	---	V/A7	J5	V/A7	D	
117B	HG	3'-0"x7'-2"x1 3/4"	HM	PAINT	G2	F-1	HM	PAINT	2	SI	J1	H2	A	
117C	HG	3'-0"x7'-2"x1 3/4"	HM	PAINT	G2	F-1	HM	PAINT	2	SI	J1	H2	A	
117D	HG	(2)3'-0"x7'-2"x1 3/4"	HM	PAINT	G2	F-2	HM	PAINT	4	---	J2	HI	---	DUST-PROOF STRIKE
118A	OHS	14'-0"x14'-0"	STEEL	FF	PER MFR	---	---	---	---	V/A7	J5	V/A7	D	
118B	HG	3'-0"x7'-2"x1 3/4"	HM	PAINT	G2	F-1	HM	PAINT	2	SI	J1	H2	A	
119	F	(2)3'-0"x7'-2"x1 3/4"	HM	PAINT	G2	F-2	HM	PAINT	3	SI	J1	HI	A	DUST-PROOF STRIKE
120	HG	3'-0"x7'-2"x1 3/4"	HM	PAINT	G2	F-1	HM	PAINT	2	SI	J1	H2	A	

ROOM FINISH NOTES:

- ALL EXPOSED STRUCTURAL STEEL, INCLUDING PEMB STRUCTURE, SHALL BE PAINTED - COLORS AS SELECTED BY ARCHITECT. ALL FACTORY FINISHED METAL WALL AND ROOF PANELS SHALL BE CONCEALED BY INSULATION AND SHALL NOT BE PAINTED IN THE FIELD.
- ALL RUBBER BASE SHALL BE 4" HIGH CONTINUOUS ROLLS. PROVIDE PREMANUFACTURED EXTERIOR CORNERS.

DOOR NOTES:

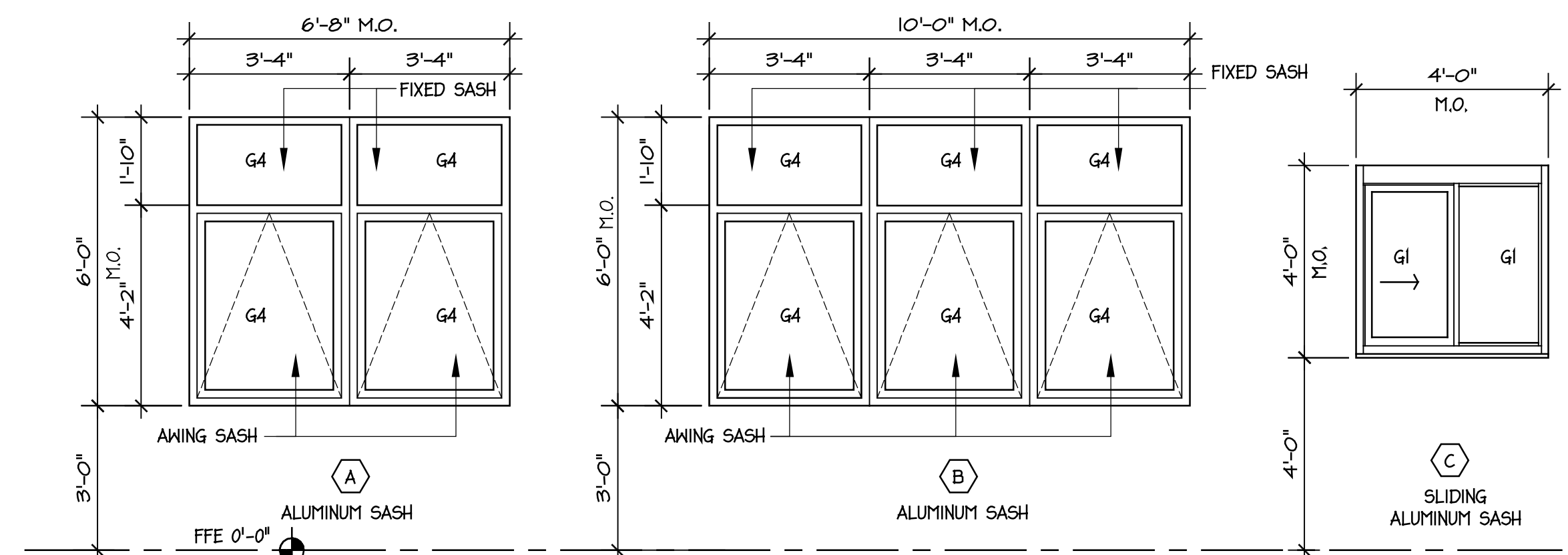
- ALL DOOR HARDWARE SHALL COMPLY WITH NCBC REQUIREMENTS. HARDWARE SCHEDULE SHALL BE PROVIDED BY A CERTIFIED DOOR HARDWARE CONSULTANT. ALL HARDWARE SHALL HAVE BRUSHED STAINLESS STEEL FINISH.

ABBREVIATIONS

ACT	ACOUSTICAL CEILING TILE	OHS	OVERHEAD SECTIONAL DOOR
CFT	CERAMIC FLOOR TILE	PCMU	PAINTED CONCRETE MASONRY UNIT
CBT	CERAMIC BASE TILE	PMB	PRE-ENGINEERED METAL BUILDING
CNT	CERAMIC WALL TILE	RB	RUBBER BASE
FF	FACTORY FINISH	SMG	SUSPENDED METAL GRID
GMB	GYPSUM WALL BOARD	VCT	VINYL COMPOSITION TILE
HM	HOLLOW METAL		
KP	KEYPAD LOCKSET		
MR	MOISTURE RESISTANT		

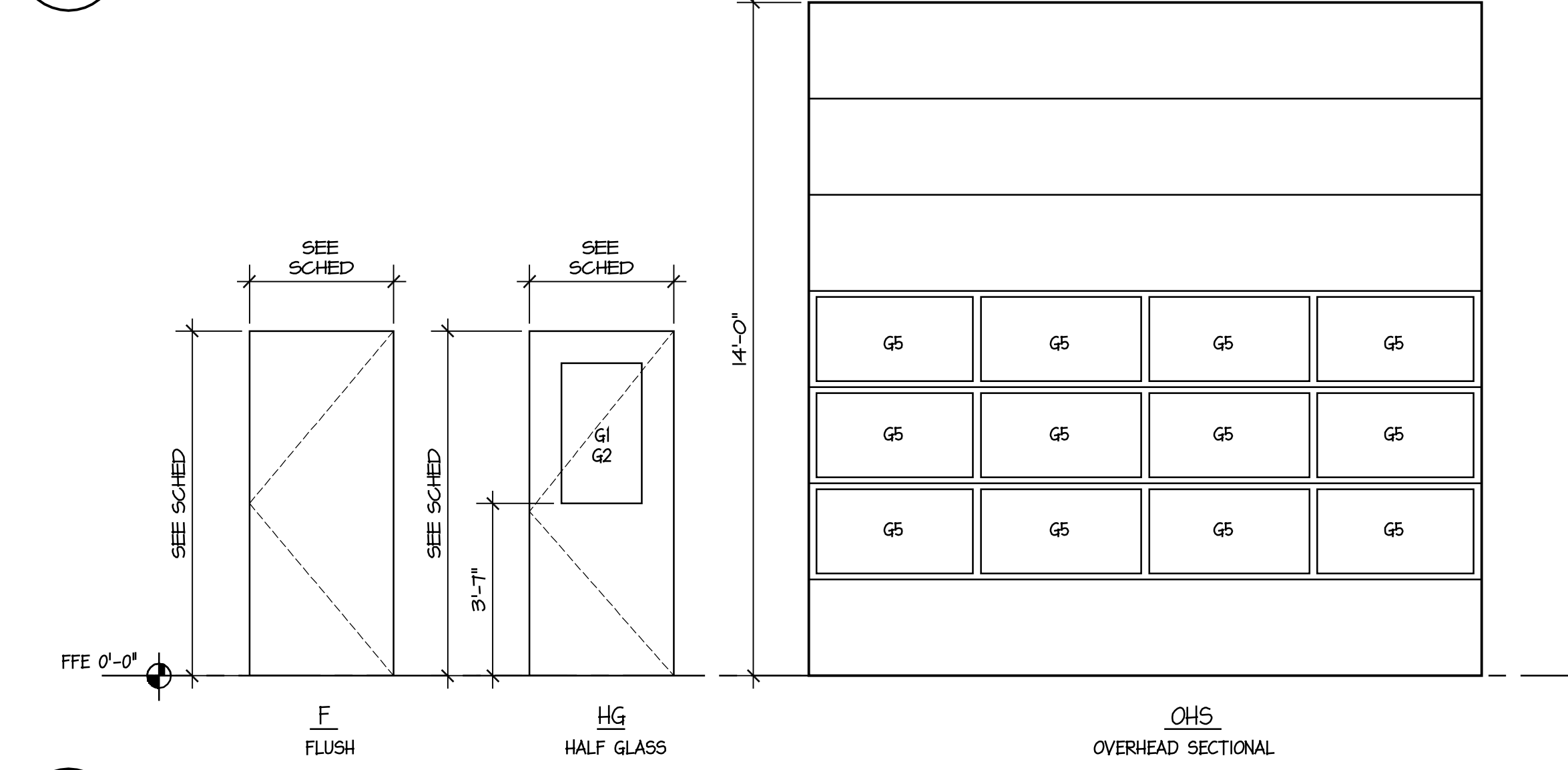
GLASS SCHEDULE

MARK	DESCRIPTION
G1	1" INSULATING TEMPERED GLASS
G2	1/4" TEMPERED GLASS
G3	5/8" TEMPERED INSULATING GLASS
G4	1" INSULATING FLOAT GLASS
G5	MANUFACTURER'S STANDARD INSULATING SAFETY GLAZING UNIT



3 WINDOW & LOUVER ELEVATIONS

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

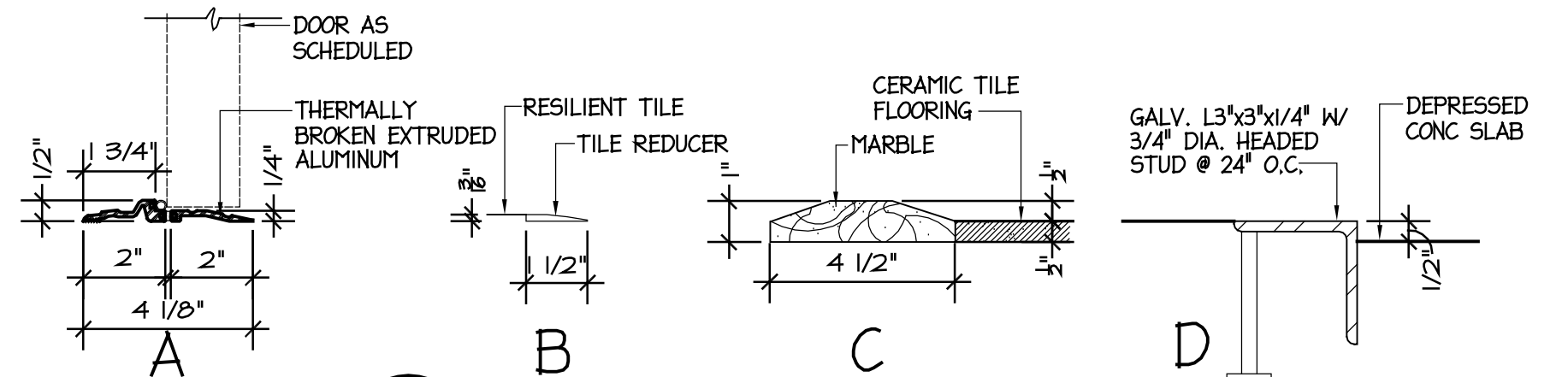


1 DOOR & FRAME ELEVATIONS

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

2 THRESHOLD TYPES DETAIL

SCALE: 3" = 1'-0"



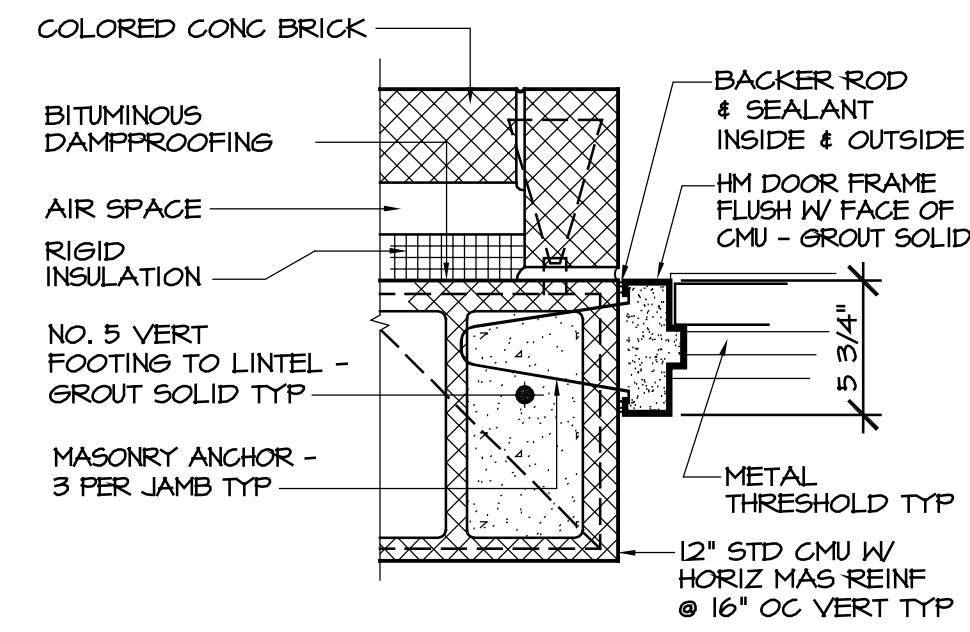
BIDDING DOCUMENTS

FACILITIES DESIGN
 ARCHITECTS & ENGINEERS
 FACILITIES MANAGEMENT DIVISION, NCDOT
 1 SOUTH WILKINSON STREET
 RALEIGH, NORTH CAROLINA 27601
 PHONE 919/707-6540 FAX 919/705-0399

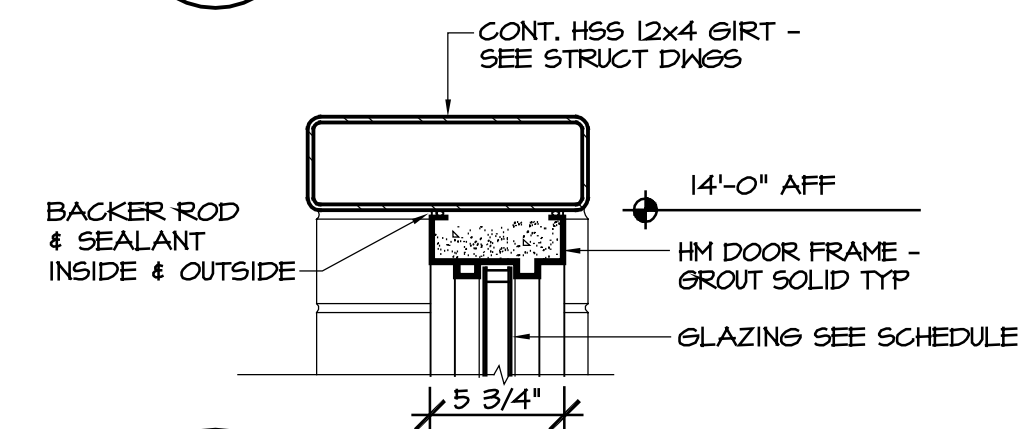
PROJECT TITLE: **ROOM FINISH & DOOR SCHEDULES, DOOR, FRAME, & WINDOW ELEVATIONS**
 LUMBERTON EQUIPMENT SHOP
 NCDOT HIGHWAY DIVISION 6
 872 NC 71 HIGHWAY
 LUMBERTON, NORTH CAROLINA 28880

STATE CONSTRUCTION ID.# 16-12916-01A
 ASSET NUMBER: 78-06-00
 CO.# SITE.# BLDG.#
 REVISIONS NO. DATE
 DATE ISSUED: 12/15/2017
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 CHECKED BY:
 SHEET NO.

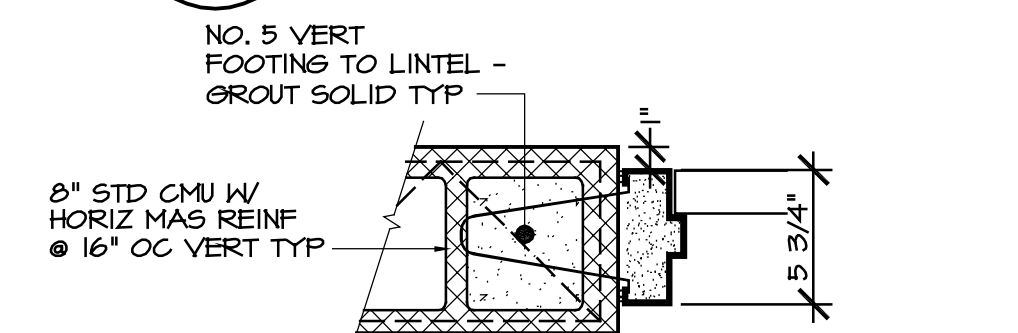
A10



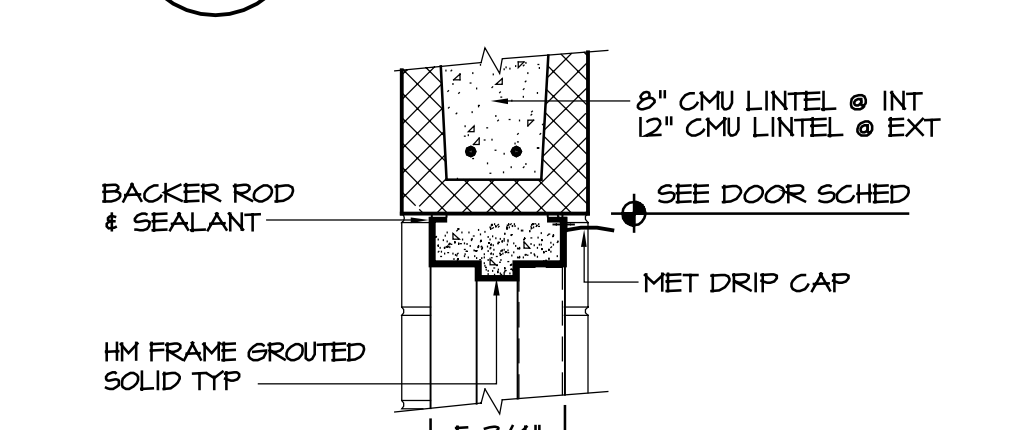
J3 DOOR JAMB DETAIL
A11 SCALE: 1 1/2" = 1'-0"



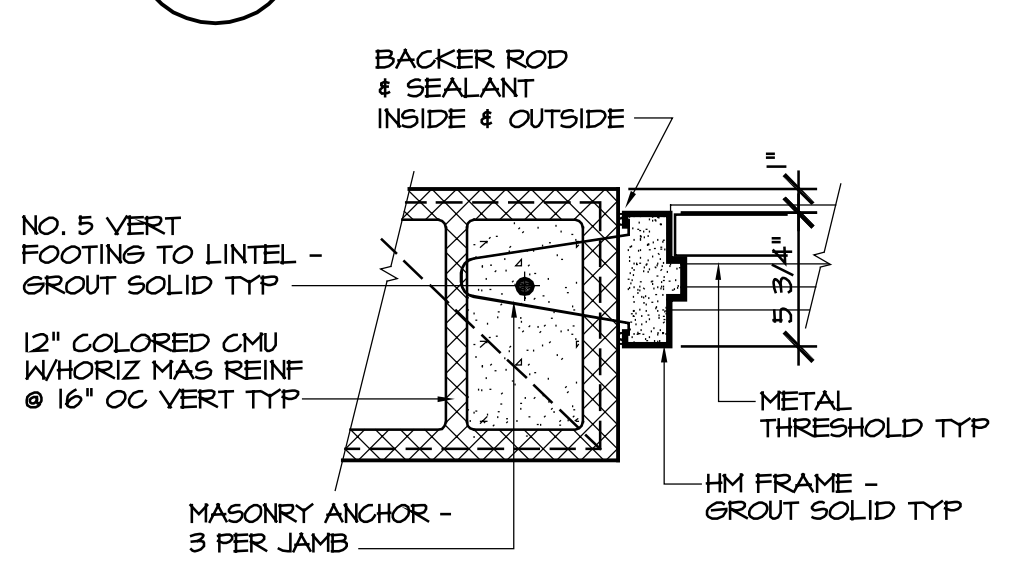
H2 DOOR HEAD DETAIL
A11 SCALE: 1 1/2" = 1'-0"



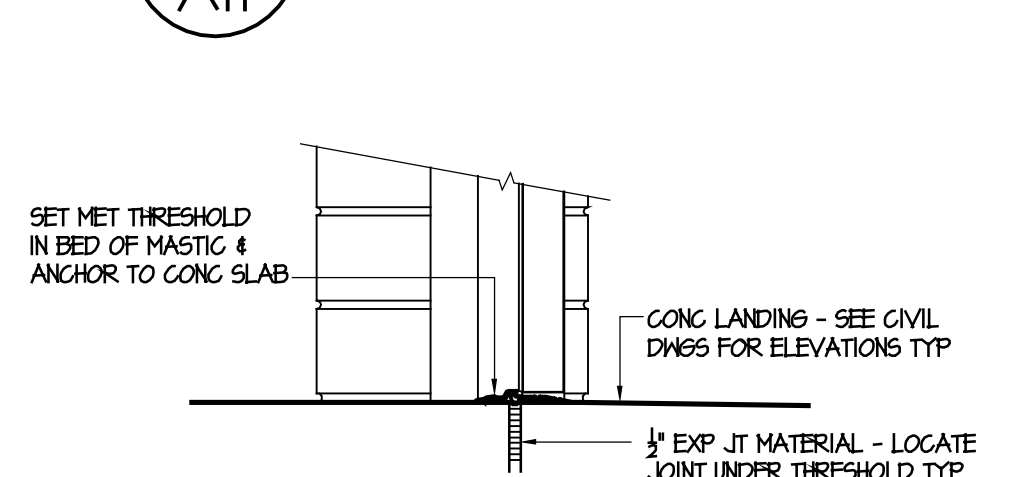
J2 DOOR JAMB DETAIL
A11 SCALE: 1 1/2" = 1'-0"



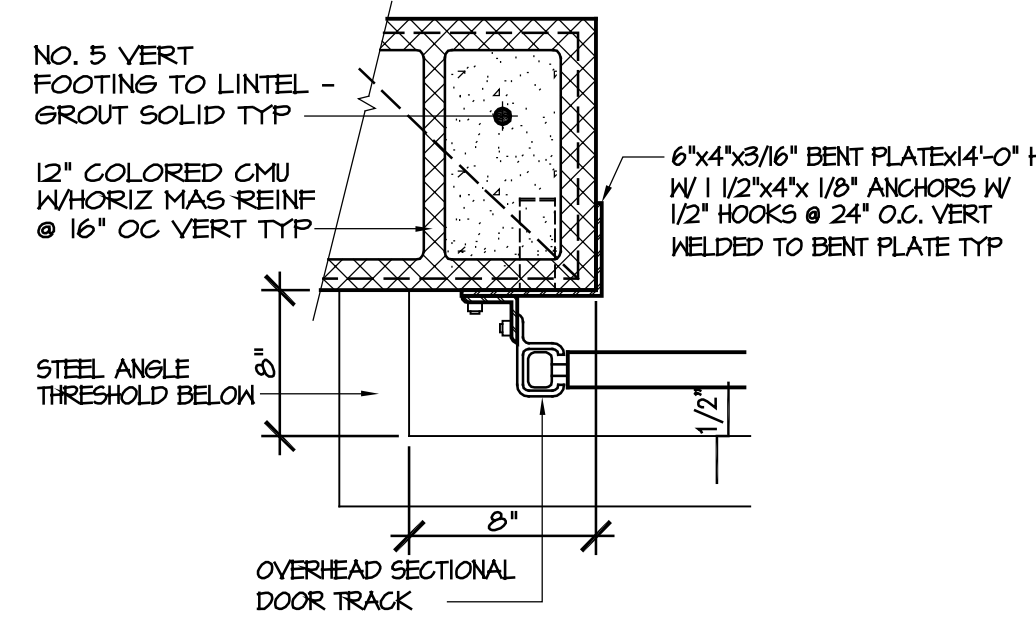
H1 DOOR HEAD DETAIL
A11 SCALE: 1 1/2" = 1'-0"



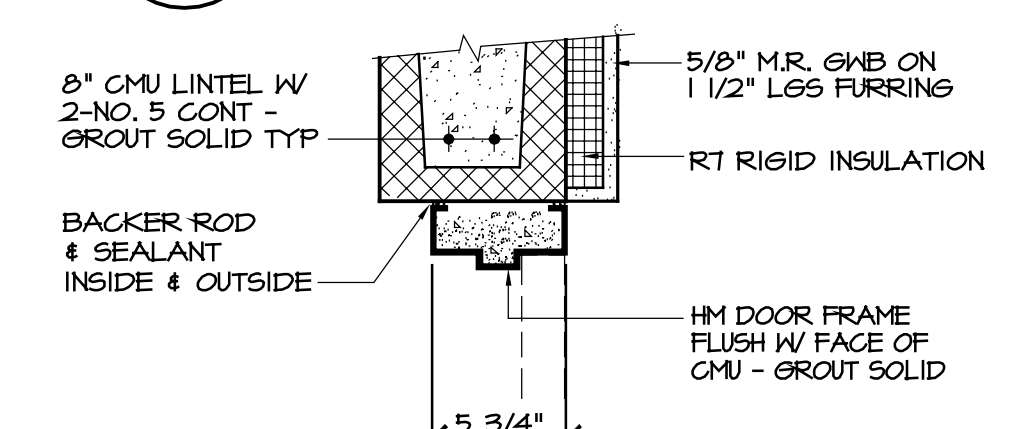
J1 DOOR JAMB DETAIL
A11 SCALE: 1 1/2" = 1'-0"



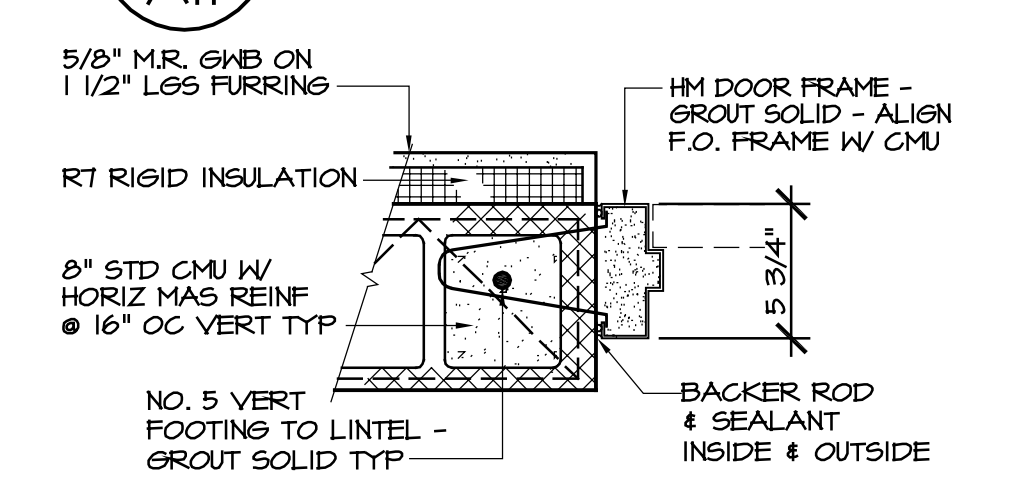
S1 DOOR SILL DETAIL
A11 SCALE: 1 1/2" = 1'-0"



J5 DOOR JAMB DETAIL
A11 SCALE: 1 1/2" = 1'-0"



H4 DOOR HEAD DETAIL
A11 SCALE: 1 1/2" = 1'-0"



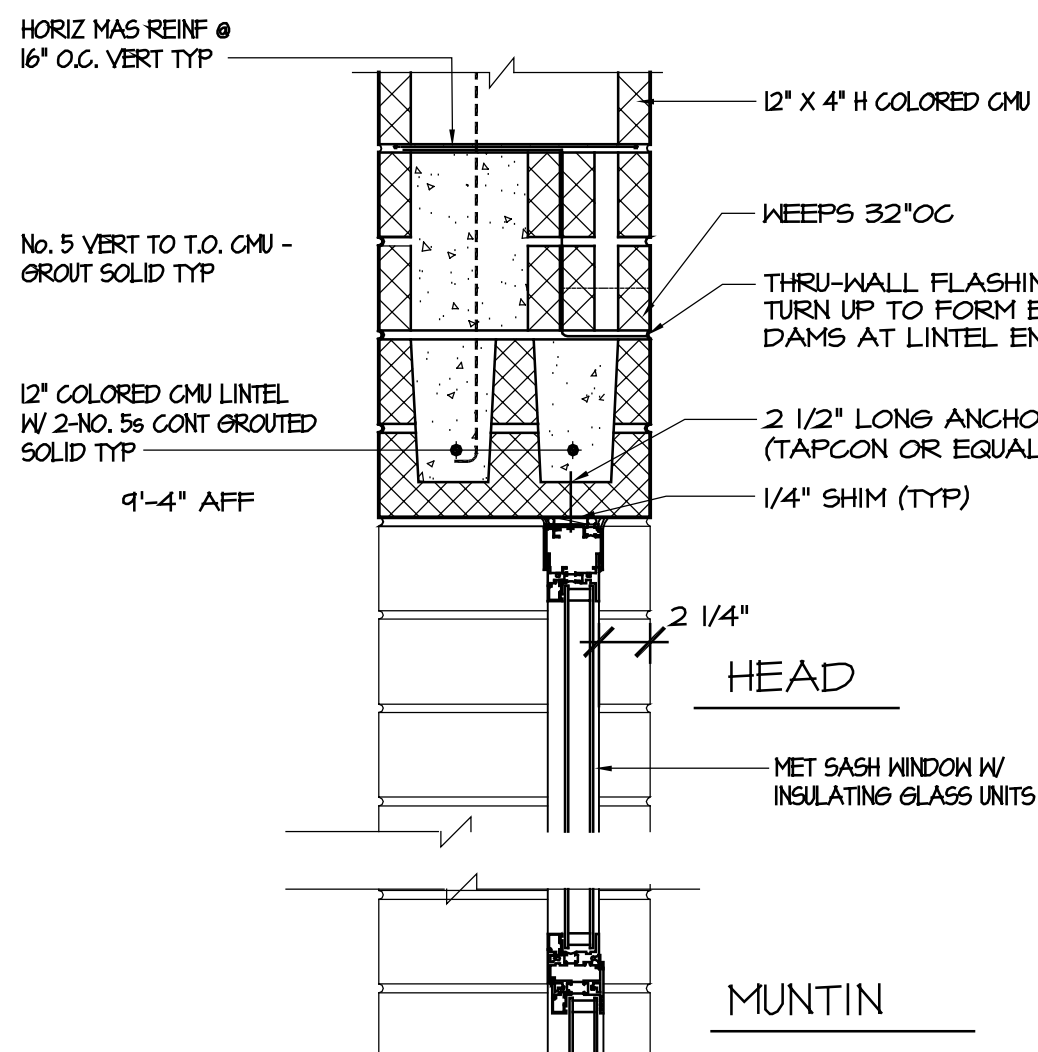
J4 DOOR JAMB DETAIL
A11 SCALE: 1 1/2" = 1'-0"



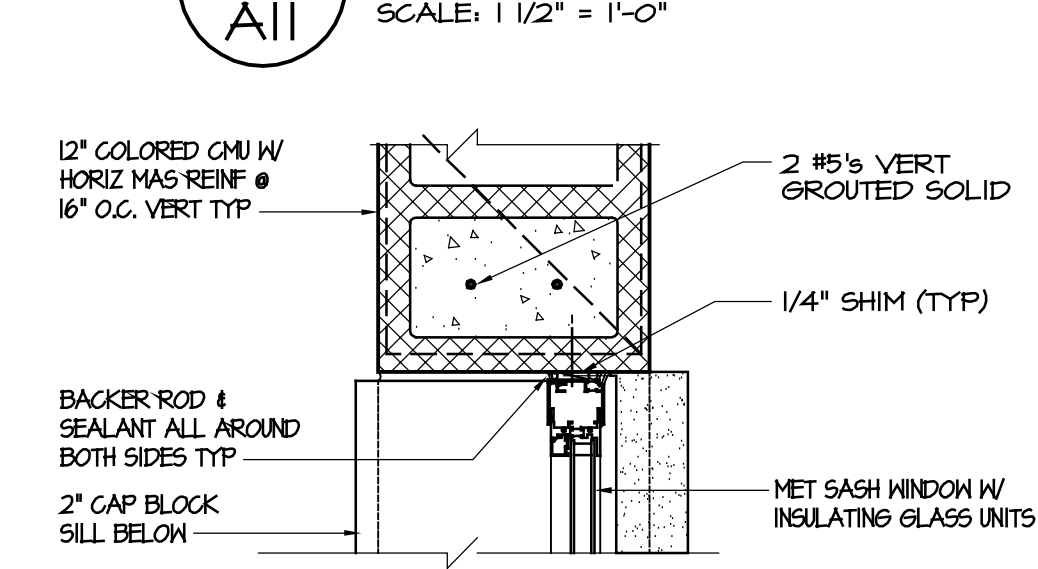
J1 DOOR JAMB DETAIL
A11 SCALE: 1 1/2" = 1'-0"



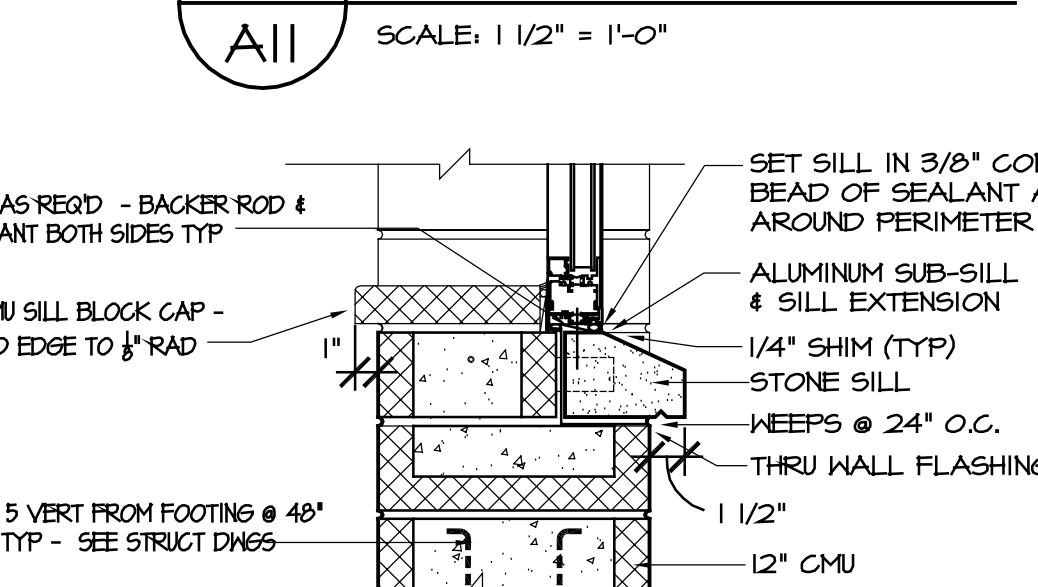
S2 DOOR SILL DETAIL
A11 SCALE: 1 1/2" = 1'-0"



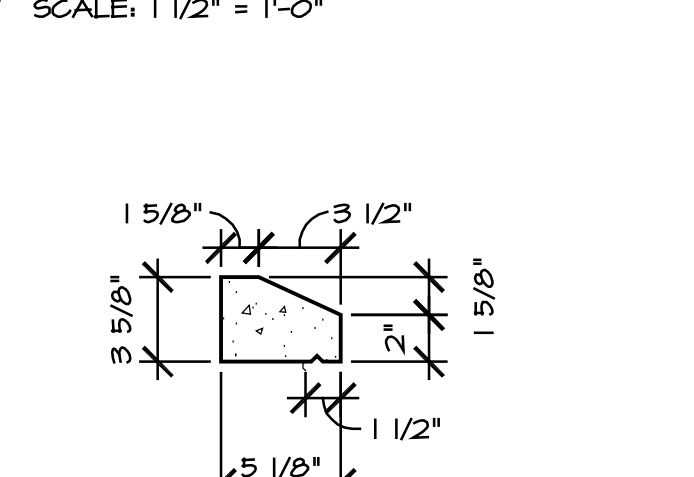
WH1 WINDOW HEAD DETAIL
A11 SCALE: 1 1/2" = 1'-0"



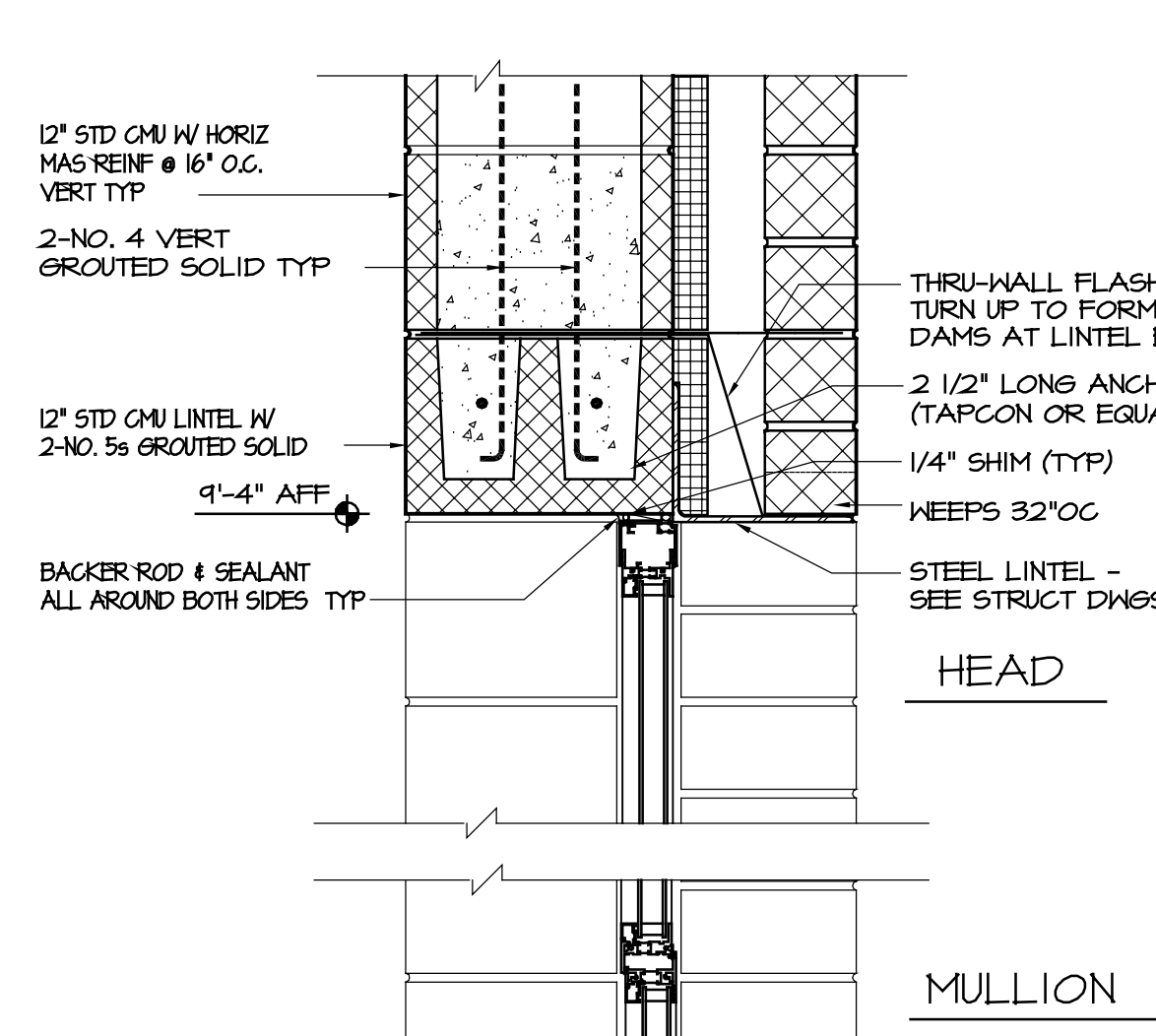
WJ1 WINDOW JAMB DETAIL
A11 SCALE: 1 1/2" = 1'-0"



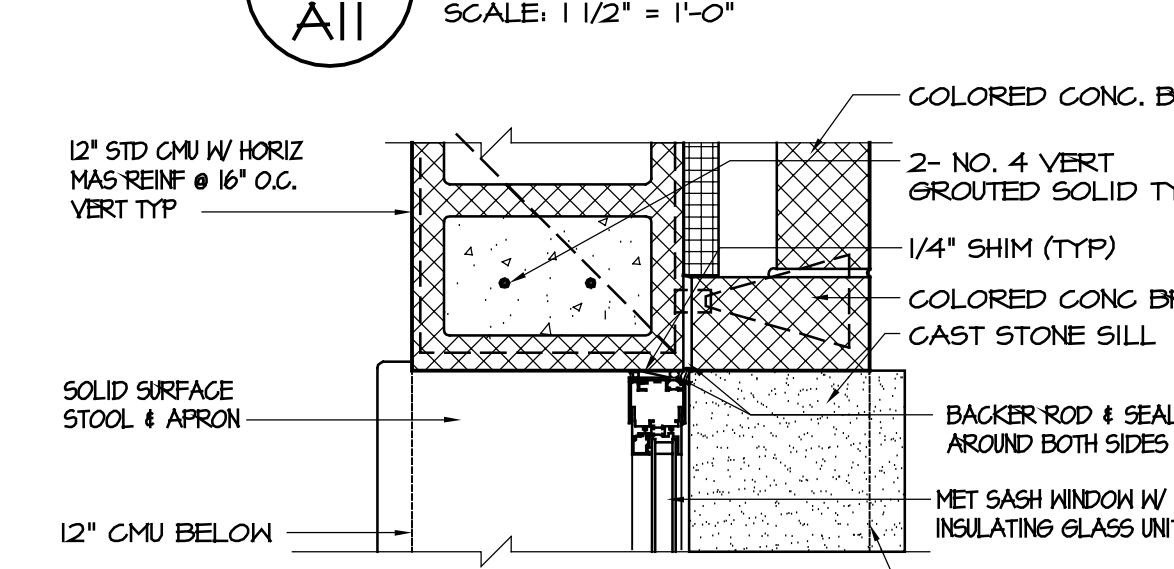
WS1 WINDOW SILL DETAIL
A11 SCALE: 1 1/2" = 1'-0"



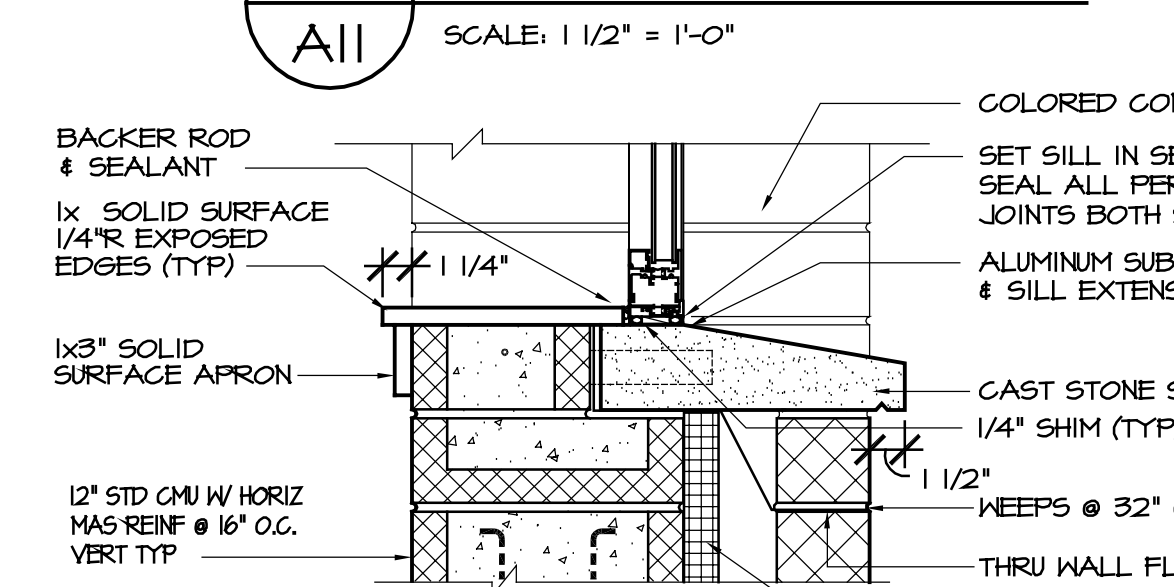
1 CAST STONE SILL PROFILE
A11 SCALE: 1 1/2" = 1'-0"



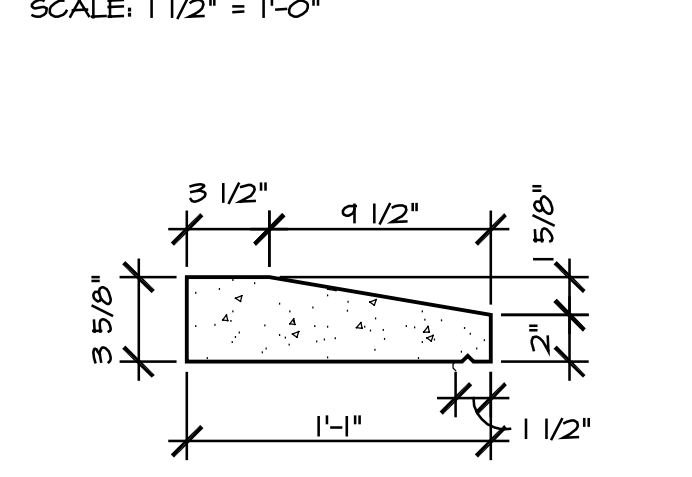
WH2 WINDOW HEAD DETAIL
A11 SCALE: 1 1/2" = 1'-0"



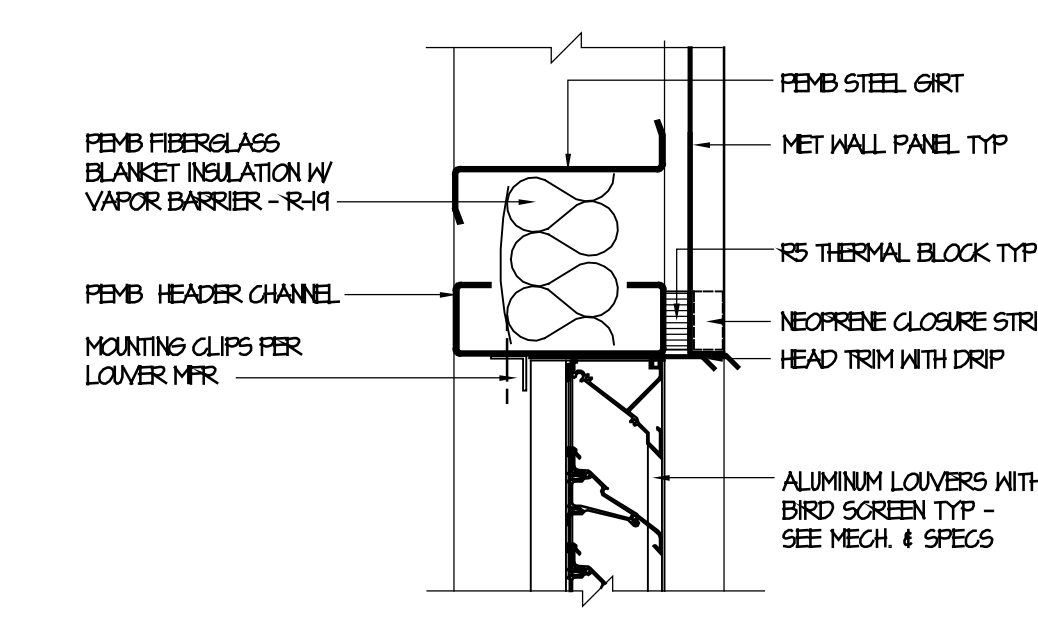
WJ2 WINDOW JAMB DETAIL
A11 SCALE: 1 1/2" = 1'-0"



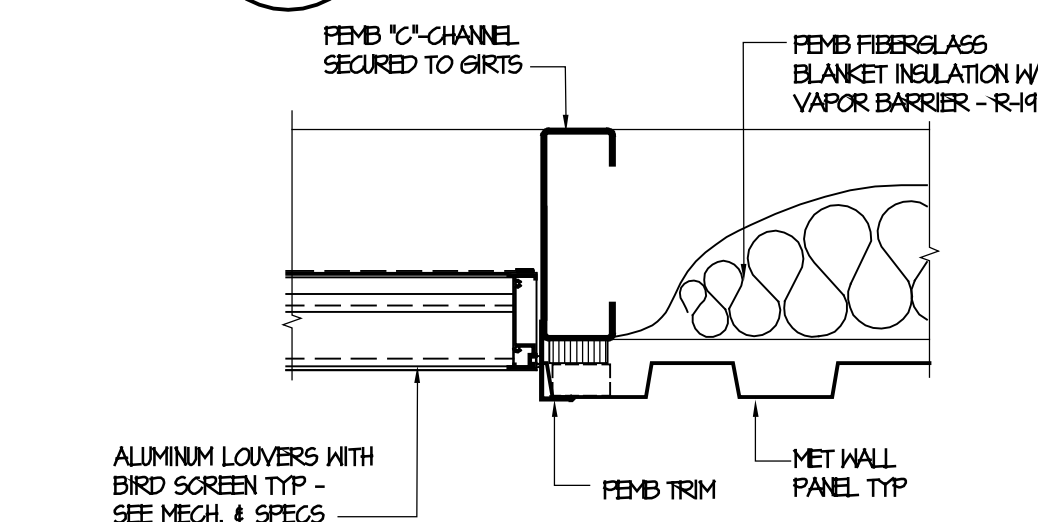
WS2 WINDOW SILL DETAIL
A11 SCALE: 1 1/2" = 1'-0"



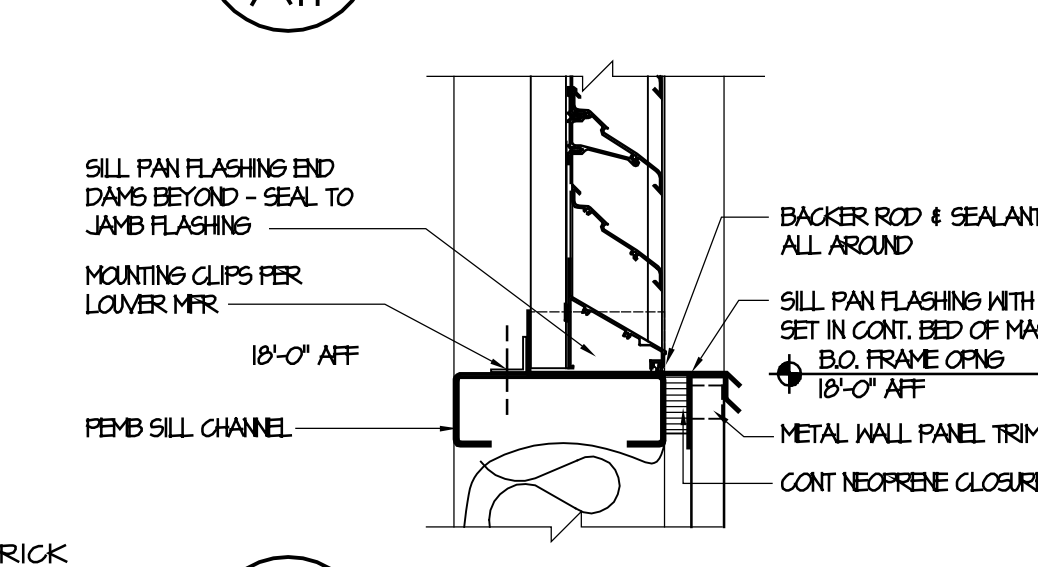
2 CAST STONE SILL PROFILE
A11 SCALE: 1 1/2" = 1'-0"



LHI LOUVER HEAD DETAIL
A11 SCALE: 1 1/2" = 1'-0"



LJ1 LOUVER JAMB DETAIL
A11 SCALE: 1 1/2" = 1'-0"



LSI LOUVER SILL DETAIL
A11 SCALE: 1 1/2" = 1'-0"

BIDDING DOCUMENTS

DESIGNED BY: **FACILITIES DESIGN ARCHITECTS & ENGINEERS**
ARCHITECTS & ENGINEERS
FACILITIES MANAGEMENT DIVISION, NCDOT
1 SOUTH WILKINSON STREET
RALEIGH, NORTH CAROLINA 27601
PHONE 919/707-6540 FAX 919/705-0399

CONSULTANT:

PROJECT TITLE / DESCRIPTION:
LUMBERTON EQUIPMENT SHOP
LUMBERTON HIGHWAY DIVISION 6
872 NC 7TH HIGHWAY
LUMBERTON, NORTH CAROLINA 28890

STATE CONSTRUCTION ID.# 16-12916-01A

ASSET NUMBER: 78-06-00
CO.# SITE# BLDG.#

REVISIONS NO. DATE

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CHECKED BY:
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A11