

LIGHTING FIXTURE SCHEDULE (BASIS OF DESIGN)

LABEL	QUANTITY	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	LAMPS	LUMEN OUTPUT	LLF	INPUT POWER
G	130	LITHONIA LIGHTING	LDN6CYL-4015-LOGAR-LSS	6IN LDN CYLINDER-4000K, 1500LM, CLEAR, SEMI-SPECULAR REFLECTOR, CR88MM WALL MTD	LED	1516	0.97	20
LP1	26	LITHONIA LIGHTING	RSX2-LED-P3-40K-R2-HS	SINGLE HEAD, 25-FOOT ALUMINUM POLE, RSX LED AREA LUMINAIRE, SIZE 2, P3 LUMEN PACKAGE, 4000K CCT, TYPE R2 DISTRIBUTION WITH HS SHIELD	LED	16483	0.97	150
LP2	15	LITHONIA LIGHTING	RSX2-LED-P3-40K-R2-HS	DOUBLE HEAD, 25-FOOT ALUMINUM POLE, RSX LED AREA LUMINAIRE, SIZE 2, P3 LUMEN PACKAGE, 4000K CCT, TYPE R2 DISTRIBUTION WITH HS SHIELD	LED	32966	0.97	300
LP3	28	LITHONIA LIGHTING	RSX2-LED-P1-40K-R2-HS	SINGLE HEAD, 12-FOOT ALUMINUM POLE, RSX LED AREA LUMINAIRE, SIZE 2, P1 LUMEN PACKAGE, 4000K CCT, TYPE R2 DISTRIBUTION WITH HS SHIELD	LED	8340	0.97	75

ILLUMINATION STATISTICS

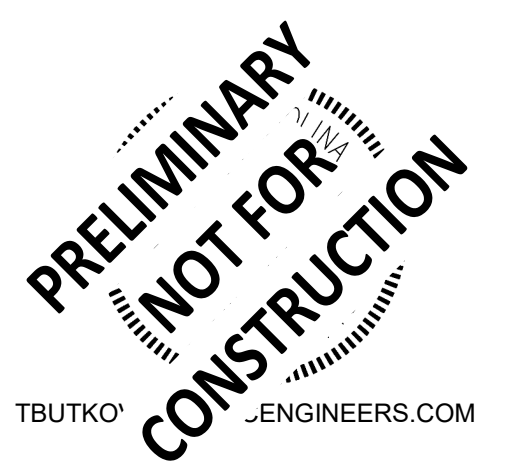
DESCRIPTION	AVERAGE FOOTCANDLES	MAXIMUM FOOTCANDLES	MINIMUM FOOTCANDLES
SITE	3	35	0

POWER STATISTICS

DESCRIPTION	TOTAL LUMINAIRES	TOTAL WATTS	AREA (SQ FT)	DENSITY
SITE	201	13399	-	0.1 WATT PER SQ FT

KEY PLAN

**TULLS CREEK
ELEMENTARY
SCHOOL**
PROJECT TITLE



Progreive Design Collaborative, Ltd.
5101 Poplarwood Court, Suite 500
Raleigh, North Carolina 27604
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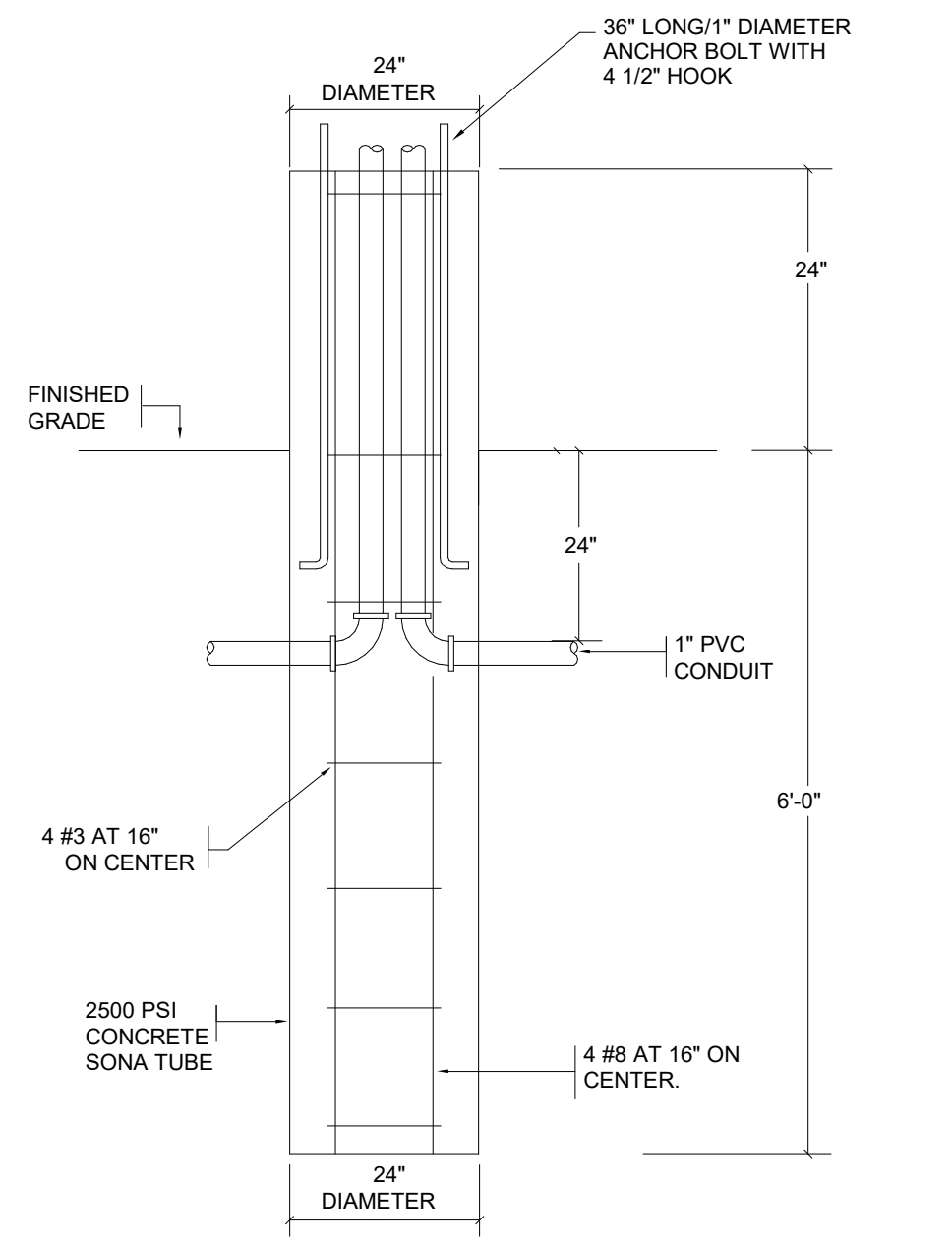
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NO.	DATE	DESCRIPTION

CD 70%
PROJECT PHASE
2207
BOOMERANG DESIGN PROJECT NUMBER
06.07.2023
DRAWING RELEASE DATE

**SITE LIGHTING
PHOTOMETRICS AND
SCHEDULES**
SHEET TITLE

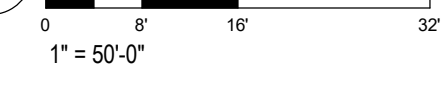
E801
SHEET



12 AND 25 FOOT POLE ROUND POLE BASE

2 SITE LIGHTING FIXTURE POLE BASE

1 SITE PLAN - LIGHTING FIXTURE PHOTOMETRICS



POLE FOR LIGHTING FIXTURE TYPES LP1, LP2 AND LP3



FEATURES & SPECIFICATIONS

INTENDED USE — These specifications are for SSA standards only. Square Straight Aluminum is a general purpose light pole for up to 35 foot mounting heights. This pole provides a lighter and naturally corrosion-resistant option for mounting area light fixtures and floodlights.

CONSTRUCTION — Pole shaft: The pole shaft is of uniform wall thickness and is made of extruded 6060 series aluminum alloy tubing that is heat treated to a T6 temper to provide maximum strength. The shaft is uniformly square in cross-section with flat sides, small corner radii and excellent torsional qualities. Available shaft widths are 4", 5", and 6".

Pole Top: Options include tension top, drilled for side mount fixtures, tension with drilling (includes extra hardware) and open top. A removable cast aluminum top cap with a screen is provided for all poles that will receive drilling patterns for side-mount luminaire arm assemblies or when ordered with open top (PT) option. The top cap meets intrusion of moisture and environmental contaminants.

Handhole: A handhole opening with gasketed pressure is provided near the base. Standard positioning varies with shaft width as follows: 4" shaft, handhole at 12" 5" shaft, handhole at 14" 6" and 6.5" shaft, handhole at 18". Positioning the handhole lower than standard may not be possible and requires engineering review, consult NCC Support Center for further information. Standard and extra handholes come with cover and attachment hardware. The handhole for a pole specified with a 4" or 5" shaft width has a minimal diameter of 2" 4" or the handhole for a pole specified with a 6" or 6.5" shaft width has a minimal diameter of 2.63" 5". Standard and extra handholes come with cover and attachment hardware.

Base Cap/Row Cover: Pole base plate utilizes cast aluminum A6061 not cover discs to cover anchor bolt and not available. 1 piece, square aluminum base cover available as an option.

Anchor Base/Bolt: Anchor base is cast from 6061 aluminum. Anchor bolts are manufactured to ASTM F1554 Standard Grade 55, 5/8 inch minimum proof strength and tensile strength of 75-90 KSI. Upper portion of anchor bolt is galvanized per ASTM A-153, both from an 1" hole on bottom end and are galvanized a minimum of 12" on the threaded end.

WARNING: — All structural and non-structural fixtures are standard steel.

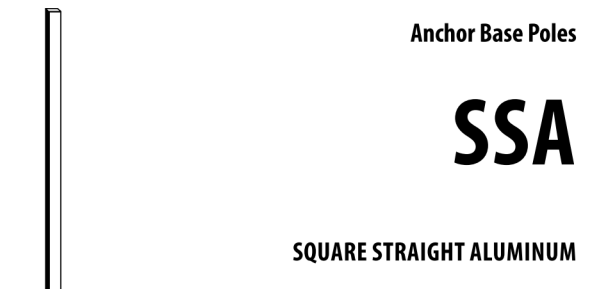
FINISH — Extra durable painted finish is coated with TFC (Fluoropolymer) Polyester powder that meets SA and SB classifications of ASTM D3359. Standard powder-coat finishes include Dark Bronze, White, Black, and Natural Aluminum colors. Other finishes include Brushed Aluminum, and Anodized Dark Bronze, Anodized Natural Aluminum and Anodized Black. Architectural Colors and Special Finishes are available by quote and include, but are not limited to:RAL Colors, Custom Colors and Extended Warranty Finishes.

CRONOSS: Coating protection is located in handhole near the base. Grounding hardware is not included (provided by others).

INSTALLATION — Do not erect poles without having fixtures installed. Factory supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claims for incorrect anchor placement due to failure to use Lithonia Lighting factory templates. If poles are stored outside, all protective wrapping must be removed immediately upon delivery to prevent finish damage. Lithonia Lighting is not responsible for the foundation design.

WARRANTY — 1 year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.lithoniamotion.com/support/warranty/terms-and-conditions

NOTE: Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice.



SSA Square Straight Aluminum Poles

ORDERING INFORMATION — Lead times will vary depending on options selected. Consult with your sales representative. Example: SSA 20 4C DM19 BA

SSA	Nominal fixture mounting height	Nominal shaft base plate/wall thickness	Mounting*	Options	Finish*
SSA	8' 31"	4C 4" (0.125")	Screen mounting	LWB	Less anchor bolts (include when anchor bolts are not needed)
	10'	4G 4" (0.188")	FT	Open top	DRBKD Dark bronze
	12'	5G 5" (0.188")	T30	2-3/8" O.D. (1" NPS)	DRBLD Black
	14'	6G 6" (0.188")	T25	2-3/8" O.D. (1-1/2" NPS)	DMATD Natural aluminum
	16'	6G 6" (0.188")	T10	3-1/2" O.D. (1" NPS)	DMWDD White
	18'	6G 6" (0.188")	T15	4" O.D. (1-1/2" NPS)	DMTDD Treated dark bronze
	20'	7" (0.250")	DL34cy	1/2" I.D. coupling	DMRDD Treated natural aluminum
	22'	7" (0.250")	DL34cy	3/4" I.D. coupling	DMWDD Treated white
	24'	7" (0.250")	DL34cy	1" I.D. coupling	Brushed finish
	26'	7" (0.250")	DM3D	2 at 90°	BA Brushed aluminum
	28'	7" (0.250")	DM3D	2 at 180°	Class. Architectural anodized
	30'	7" (0.250")	DM3D	2 at 180° with one side plugged	ANL Black
	32'	7" (0.250")	DM3D	2 at 90°	ADB Dark bronze
	34'	7" (0.250")	DM3D	2 at 90°	AWA Natural
	36'	7" (0.250")	DM3D	2 at 90°	Architectural colors (DMRFL, DMRFL, DMRFL)
	38'	7" (0.250")	DM3D	2 at 90°	Duracolor Anodize (Paint over Duracolor Anodize RAL Colors, Custom Colors and Extended Warranty Finishes available)
	40'	7" (0.250")	DM3D	2 at 90°	
	42'	7" (0.250")	DM3D	2 at 90°	
	44'	7" (0.250")	DM3D	2 at 90°	
	46'	7" (0.250")	DM3D	2 at 90°	
	48'	7" (0.250")	DM3D	2 at 90°	
	50'	7" (0.250")	DM3D	2 at 90°	
	52'	7" (0.250")	DM3D	2 at 90°	
	54'	7" (0.250")	DM3D	2 at 90°	
	56'	7" (0.250")	DM3D	2 at 90°	
	58'	7" (0.250")	DM3D	2 at 90°	
	60'	7" (0.250")	DM3D	2 at 90°	
	62'	7" (0.250")	DM3D	2 at 90°	
	64'	7" (0.250")	DM3D	2 at 90°	
	66'	7" (0.250")	DM3D	2 at 90°	
	68'	7" (0.250")	DM3D	2 at 90°	
	70'	7" (0.250")	DM3D	2 at 90°	
	72'	7" (0.250")	DM3D	2 at 90°	
	74'	7" (0.250")	DM3D	2 at 90°	
	76'	7" (0.250")	DM3D	2 at 90°	
	78'	7" (0.250")	DM3D	2 at 90°	
	80'	7" (0.250")	DM3D	2 at 90°	
	82'	7" (0.250")	DM3D	2 at 90°	
	84'	7" (0.250")	DM3D	2 at 90°	
	86'	7" (0.250")	DM3D	2 at 90°	
	88'	7" (0.250")	DM3D	2 at 90°	
	90'	7" (0.250")	DM3D	2 at 90°	
	92'	7" (0.250")	DM3D	2 at 90°	
	94'	7" (0.250")	DM3D	2 at 90°	
	96'	7" (0.250")	DM3D	2 at 90°	
	98'	7" (0.250")	DM3D	2 at 90°	
	100'	7" (0.250")	DM3D	2 at 90°	

- NOTES:**
- Wall thickness will be lighter with a 4", 5" or 6" in increments.
 - PT open top poles include top cap. When ordering tension mounting and drill mounting for the same pole, follow this naming convention: SSA 20 4C DM19 FT T30.
 - 3-1/2" and 4" O.D. sizes available on 5" and 6" shafts only.
 - Make sure fixture size does not exceed the correct drilling template pattern and orientation capabilities.
 - Insert 1" or 2" in diameter fixture size (e.g. DM36S2).
 - Specify location and orientation when ordering options.
 - For "A", specify the height to the base of pole.
 - For "B", specify orientation from handhole (DUE/D). Refer to the Handhole Orientation Diagram below.
 - Anchor 1/2" diameter PT, orientation: 0°/90°/180°.
 - Horizontal arm is 18" x 3/4" O.D. when standard, with radius cover providing 12" rise and 3-3/4" O.D. if ordering from horizontal arm or when made specially with radius cover: 16/30R.
 - FL does not come with additional covering. Fixtures must be a minimum of 20" clear from the base in any orientation. Distance between any fixture and handhole must be at least 18" and 18" clear in any orientation.
 - Combination of tension top and drill mount includes extra hardware. Extra hardware must be a minimum of 20" clear from the base in any orientation. Distance between any fixture and handhole must be at least 18" and 18" clear in any orientation.
 - Use when end orientation is required. Same configuration may be specified, consult factory.
 - Finish must be specified. Additional colors available see Architectural Colors brochure listed 1000 (Form No. 794-B).

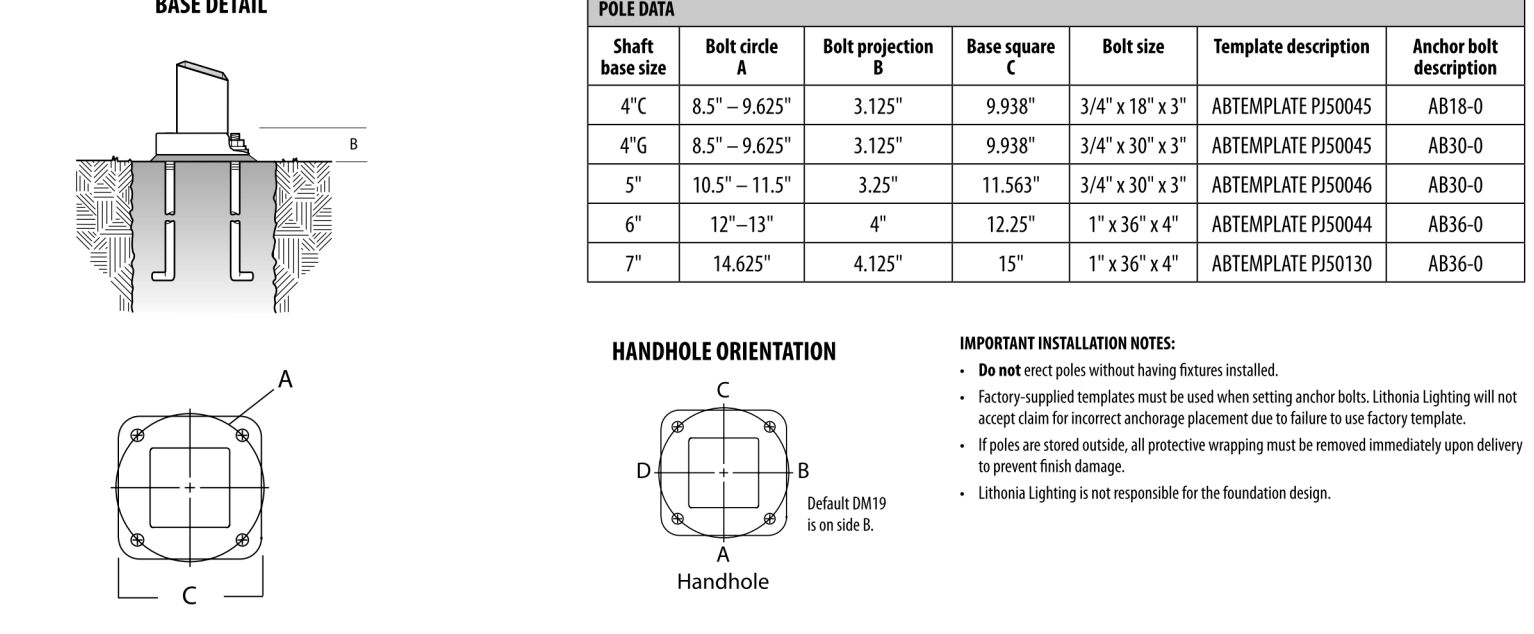
LITHONIA LIGHTING
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SSA Square Straight Aluminum Poles

TECHNICAL INFORMATION — EPA (FT) WITH 1.3 Gust

SSA	Nominal mount height (ft)	Pole shaft size (in x ft)	Wall thick (in)	80 mph	90 mph	100 mph	Max. weight (lbs)	Bolt size (in x in x in)	Approximate ship (lbs.)
SSA 8 4C	8	4.0 x 4.0	0.125	16.5	12.6	9.9	300	3/4 x 18 x 3	32
SSA 10 4C	10	4.0 x 4.0	0.125	11.5	8.4	6.5	230	3/4 x 18 x 3	37
SSA 12 4C	12	4.0 x 4.0	0.125	12.4	9.2	6.9	160	3/4 x 18 x 3	40
SSA 14 4C	14	4.0 x 4.0	0.125	9.3	6.7	4.8	130	3/4 x 18 x 3	50
SSA 16 4C	16	4.0 x 4.0	0.125	8	5.8	3.9	100	3/4 x 18 x 3	52
SSA 18 4C	18	4.0 x 4.0	0.125	6.9	4.7	3.1	90	3/4 x 18 x 3	54
SSA 16 4G	16	4.0 x 4.0	0.188	11.8	8.5	6.2	130	3/4 x 18 x 3	74
SSA 16 5G	16	5.0 x 4.0	0.188	12	11.1	7.5	200	3/4 x 18 x 3	83
SSA 18 4G	18	4.0 x 4.0	0.125	4.9	3	1.7	70	3/4 x 18 x 3	57
SSA 18 4G	18	4.0 x 4.0	0.188	9.2	6.4	4.4	100	3/4 x 18 x 3	80
SSA 18 5G	18	5.0 x 4.0	0.188	10.8	12.2	8.9	230	3/4 x 18 x 3	91
SSA 20 4C	20	4.0 x 4.0	0.125	1.1	1.2	0.5	40	3/4 x 18 x 3	62
SSA 20 4G	20	4.0 x 4.0	0.188	7	4.8	2.9	80	3/4 x 18 x 3	85
SSA 20 5G	20	5.0 x 4.0	0.188	13.6	9.5	6.6	180	3/4 x 18 x 3	107
SSA 20 6G	20	6.0 x 4.0	0.188	22	15.9	11.6	230	1 x 18 x 4	155
SSA 20 6G	20	6.0 x 4.0	0.25	30.4	22.6	15	300	1 x 18 x 4	202
SSA 25 5G	25	5.0 x 5.0	0.188	7.2	4.2	2	110	3/4 x 18 x 3	139
SSA 25 6G	25	6.0 x 5.0	0.188	13.2	8.6	5.6	180	1 x 18 x 4	180
SSA 30 6G	30	6.0 x 5.0	0.188	7	3.4	0.8	130	1 x 18 x 4	210
SSA 30 6G	30	6.0 x 5.0	0.25	12.2	7.5	4.1	170	1 x 18 x 4	258
SSA 32 6G	32	6.0 x 5.0	0.25	9.7	5.4	2.3	160	1 x 18 x 4	272
SSA 34 6G	35	6.0 x 5.0	0.25	6.4	2.8	—	200	1 x 18 x 4	294
SSA 37 6G	35	6.75 x 5.0	0.25	7.6	3.1	—	150	1 x 18 x 4	290

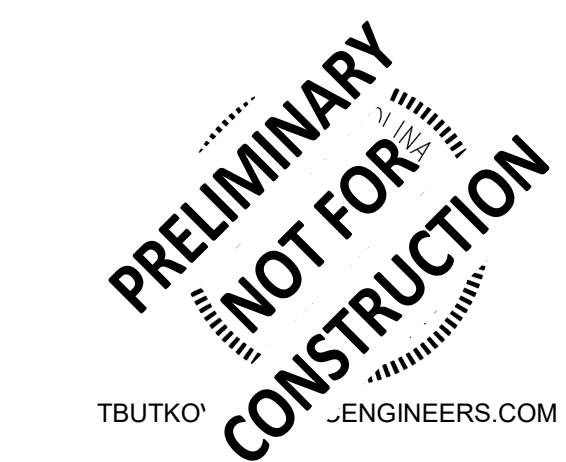
NOTE: *150 values are based ASCE 7-10 wind maps. For 1/2" increments, add .6 to the pole height. Ex. 20-4 equals 20R 6in.



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KEYPLAN

TULLS CREEK
ELEMENTARY
SCHOOL
PROJECT TITLE



Progressive Design Collaborative, Ltd.
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Raleigh, North Carolina 27604
919-700-0989
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pdc@progressivedesign.com
PDC #21008

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CD 70%
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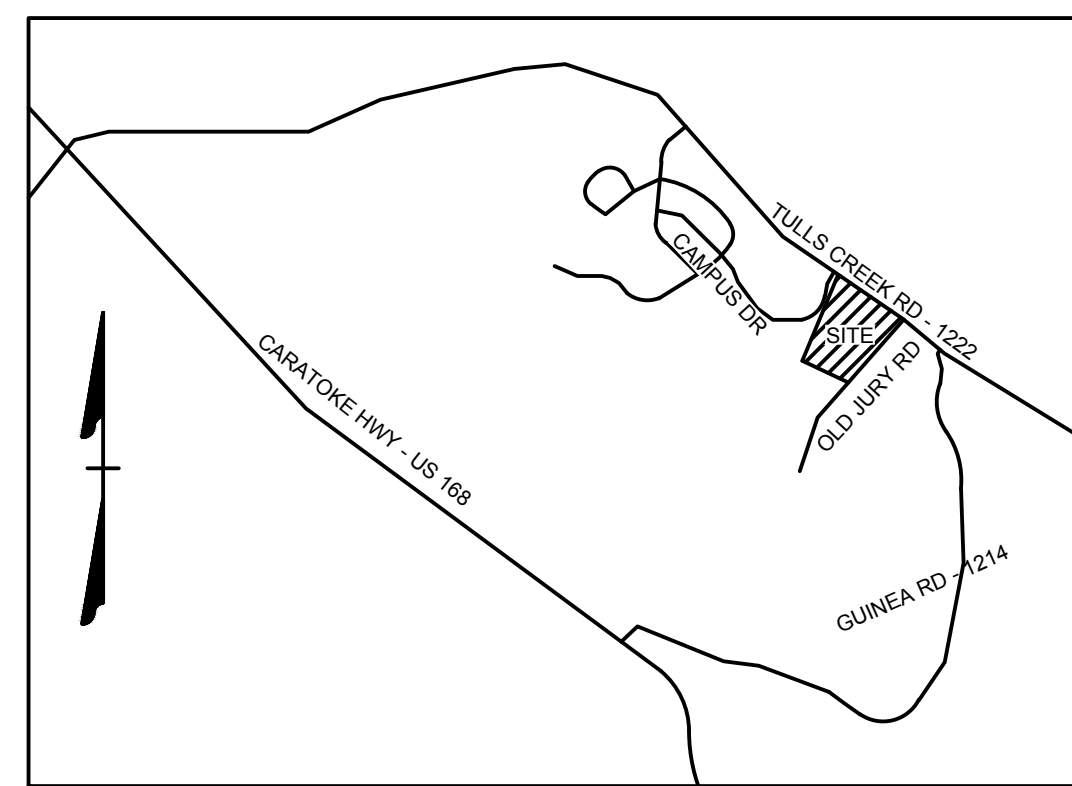
SITE LIGHTING
FIXTURE POLE CUT
SHEETS
SHEET TITLE

E804
SHEET

CONSTRUCTION DEVELOPMENT DRAWINGS

TULLS CREEK ELEMENTARY SCHOOL

CURRITUCK COUNTY SCHOOLS
XXX TULLS CREEK ROAD, CURRITUCK, NC 27929



VICINITY MAP
NO SCALE



SHEET NUMBER	SHEET TITLE
C0.0	COVER SHEET
C1.0	EXISTING CONDITIONS
C2.0	SITE PLAN OVERVIEW
C2.1	SITE PLAN
C2.2	SITE PLAN
C2.3	SITE PLAN
C2.4	SITE PLAN
C3.0	GRADING PLAN OVERVIEW
C3.1	GRADING PLAN
C3.2	GRADING PLAN
C3.3	GRADING PLAN
C3.4	GRADING PLAN
C4.0	EROSION CONTROL PLAN
C5.0	UTILITY PLAN OVERVIEW
C5.1	UTILITY PLAN
C6.0	SITE DETAILS
C6.1	SITE DETAILS
C6.2	STORMWATER DETAILS
C6.3	STORMWATER DETAILS
C6.4	EROSION CONTROL DETAILS
C6.5	EROSION CONTROL DETAILS
C6.6	UTILITY DETAILS
C6.7	UTILITY DETAILS
C6.8	UTILITY DETAILS
C7.0	LANDSCAPE PLAN OVERVIEW
C7.1	LANDSCAPE PLAN
C7.2	LANDSCAPE PLAN
C7.3	LANDSCAPE PLAN
C7.4	LANDSCAPE PLAN

PROGRESS PRINT
MAY 24, 2023
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COVER SHEET
SHEET TITLE
C0.0
SHEET

UTILITIES	
⊕	EX FIRE HYDRANT
⊙	EX WATER VALVE
⊕	EX SEWER MANHOLE
⊕	EX TELEPHONE PEDESTAL
⊕	EX UTILITY VAULT
⊕	EX POWER POLE
<	EX GUY ANCHOR
⊕	EX POWER BOX
⊕	PROP SEWER CLEANOUT
⊕	PROP SEWER MANHOLE
⊕	PROP WATER VALVE
⊕	PROP WATER METER
⊕	PROP FIRE HYDRANT
⊕	PROP FDC
---	EX UNDERGROUND TELECOM
---	EX UNDERGROUND FIBER OPTIC
---	EX OVERHEAD UTILITY
---	EX OVERHEAD POWER
---	EX NATURAL GAS LINE
---	EX 8" WATER LINE
---	EX 12" WATER LINE
---	PROP WATER LINE
---	PROP SEWER LINE
---	PROP FORCE MAIN

LEGEND	
SITE	
---	EX SIGN
⊕	EX BOLLARD
⊕	PROP SIGN
⊕	PROP BOLLARD
---	PROPERTY BOUNDARY
---	RIGHT OF WAY
---	ADJACENT PROPERTY BOUNDARY
---	BUILDING SETBACK
---	EX ROAD CENTER LINE
---	EX EDGE OF PAVEMENT
---	EX EDGE OF GRAVEL
---	EX FENCE
---	PROP FENCE
---	PROP EDGE OF TREE LINE
---	EX CONCRETE
---	PROP SIDEWALK
---	PROP LIGHT DUTY ASPHALT
---	PROP HEAVY DUTY ASPHALT
---	PROP REINFORCE CONCRETE
---	PROP GEOWEB

GRADING & DRAINAGE	
⊕	BENCHMARK
⊕	PROP CURB INLET
⊕	PROP DROP INLET
---	EX DITCH CENTER LINE
---	EX TOP OF BANK
---	EX MAJOR CONTOUR
---	EX MINOR CONTOUR
---	EX STORM PIPE
---	PROP DITCH CENTER LINE
---	PROP TOP OF BANK
---	PROP MAJOR CONTOUR
---	PROP MINOR CONTOUR
---	PROP STORM PIPE
---	PROP SPOT GRADE

OWNER'S REPRESENTATIVE
CURRITUCK COUNTY
153 COURTHOUSE ROAD
CURRITUCK, NC 27929
CONTACT: MICHELLE PERRY, PE
PHONE: (252) 232-6034

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CIVIL ENGINEER
TIMMONS GROUP
1805 WEST CITY DRIVE, SUITE E
ELIZABETH CITY, NC 27909
CONTACT: KIMBERLY HAMBY, PE
PHONE: (252) 621-5029

SITE DATA:	
1.	OWNER: CURRITUCK COUNTY DONALD MCREE, JR., COUNTY MANAGER 153 COURTHOUSE ROAD, SUITE 204 CURRITUCK, NC 27929 (252) 232-2075
2.	SITE INFORMATION: PIN: 0220000010000 D.B. 1642, PG. 800 ZONING: SFM1 (SINGLE FAMILY RESIDENTIAL) PARCEL AREA: 36.54 AC
3.	MINIMUM SETBACKS: FRONT: 20' SIDE: 10' REAR: 25'
4.	PARKING REQUIREMENTS: 1 PER CLASSROOM PLUS 10 58 CLASSROOMS = 58 SPACES MAX SPACES PERMITTED = 68 X 1.75 = 119 PARKING PROVIDED = 119 SPACES (INCLUDING 6 ADA)
5.	COVERAGE CALCULATIONS: BUILDING: 84,742 SF (5.32%) PAVEMENT: 192,402 SF (12.09%) CONCRETE: 44,482 SF (2.79%) FUTURE: 14,170 SF (0.88%) TOTAL: 335,806 SF (21.09%) GEOWEB: 28,001 SF
6.	LANDSCAPE REQUIREMENTS: SITE LANDSCAPING: 4 AC OF CANOPY TREES PER ACRE 1 SHRUB PER 5 FEET OF BUILDING FACADE FACING A STREET VEHICULAR USE AREA LANDSCAPING SHRUBS 5' O.C. ALONG PERIMETER
7.	THIS SITE IS LOCATED IN FLOOD ZONE 'X' ACCORDING TO FEMA FIRMETTE PANEL 372180400K DATED DECEMBER 21, 2018.
8.	INSPECT AND MAINTAIN, AS NEEDED, ALL EROSION CONTROL DEVICES ON A WEEKLY BASIS AND AFTER EACH MAJOR STORM EVENT. FAILURE TO KEEP EROSION CONTROL DEVICES IN GOOD WORKING ORDER MAY RESULT IN THE ISSUANCE OF A STOP WORK ORDER.
9.	ANY FILL BROUGHT ON SITE SHALL BE FROM AN APPROVED SITESMINE. ANY MATERIAL REMOVED FROM THE SITE SHALL BE DISPOSED OF IN A SINGLE APPROVED LOCATION.
10.	ALL STORAGE BINS, TRASH RECEPTACLES AND RECYCLE CONTAINERS SHALL BE SCREENED.
11.	TOPOGRAPHIC SURVEY PERFORMED BY TIMMONS GROUP. ELEVATIONS ARE TIED TO NAVD 88.
12.	DISTURBED AREA SHALL NOT EXCEED 36.85 ACRES.

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REVISIONS

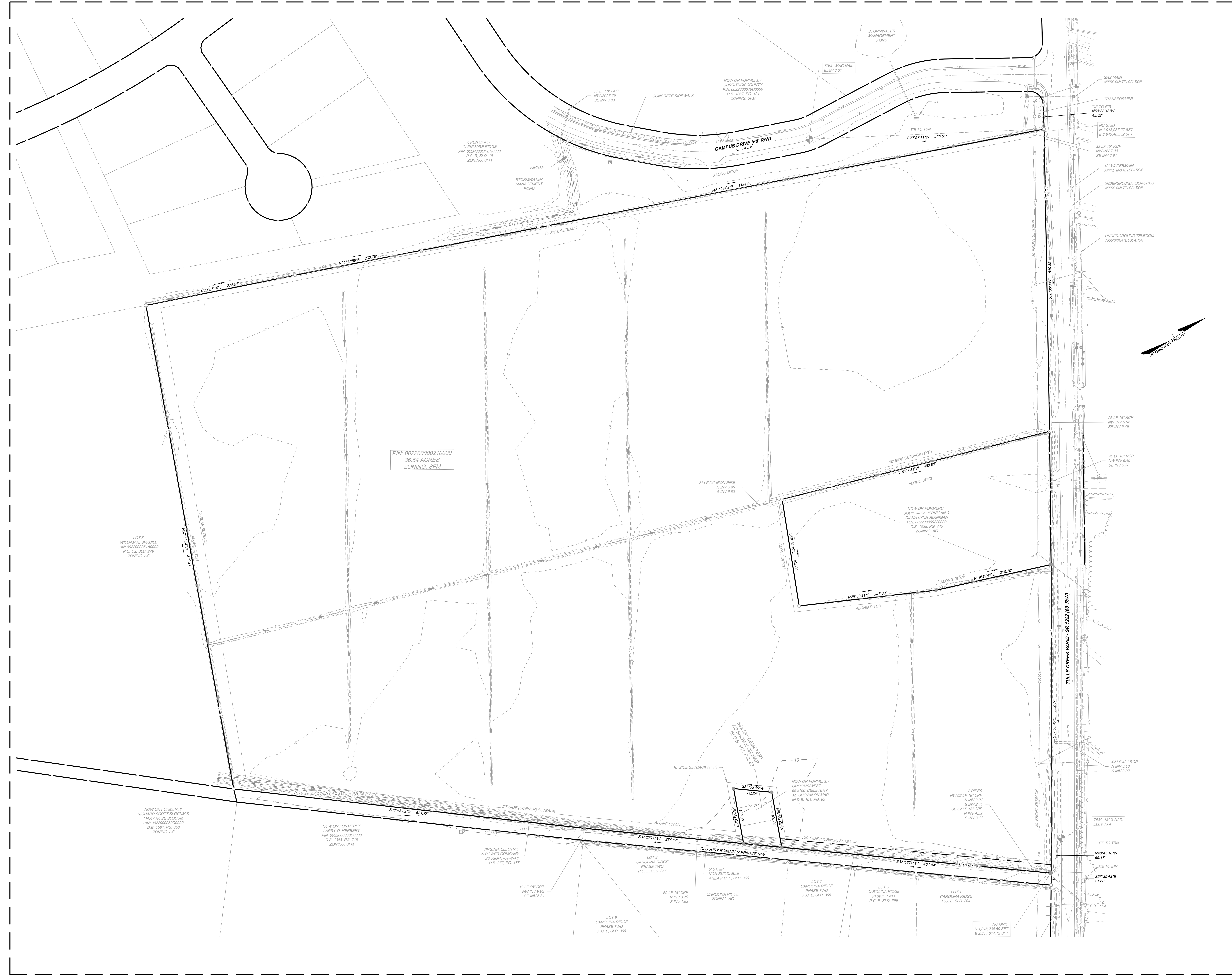
NO.	DATE	DESCRIPTION

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PROJECT PHASE
2207
BOOMERANG DESIGN PROJECT NUMBER
05.24.2023
DRAWING RELEASE DATE

**EXISTING CONDITIONS
PLAN**

SHEET TITLE
C1.0

SHEET



PROGRESS PRINT
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**TULLS CREEK
ELEMENTARY
SCHOOL**
PROJECT TITLE

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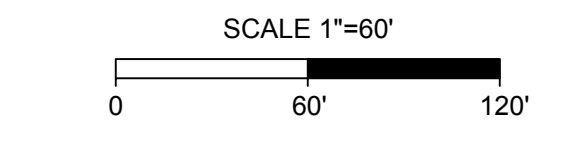
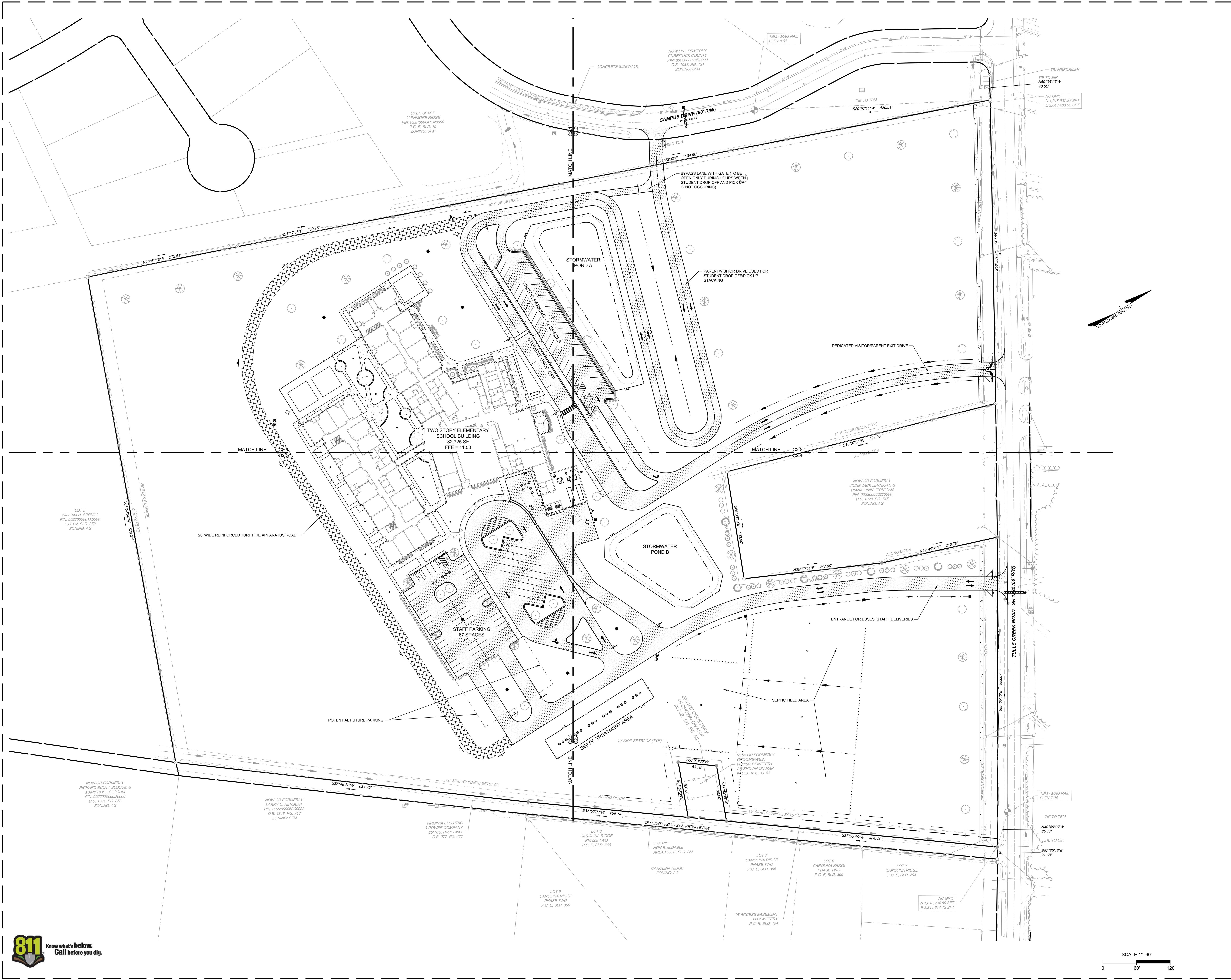
REVISIONS

NO.	DATE	DESCRIPTION

70% CD
PROJECT PHASE
2207
BOOMERANG DESIGN PROJECT NUMBER
05.24.2023
DRAWING RELEASE DATE

**SITE
PLAN**
SHEET TITLE
C2.0

SHEET



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**TULLS CREEK
ELEMENTARY
SCHOOL**
PROJECT TITLE

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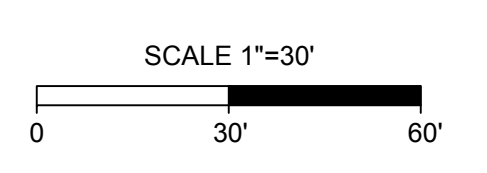
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PROJECT PHASE
2207
BOOMERANG DESIGN PROJECT NUMBER
05.24.2023
DRAWING RELEASE DATE

**SITE
PLAN**
SHEET TITLE
C2.1
SHEET



LOT 5
WILLIAM H. SPRUELL
N: 0022000061A0000
P.C. C2, SLD, 279
ZONING: AG



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**TULLS CREEK
ELEMENTARY
SCHOOL**
PROJECT TITLE

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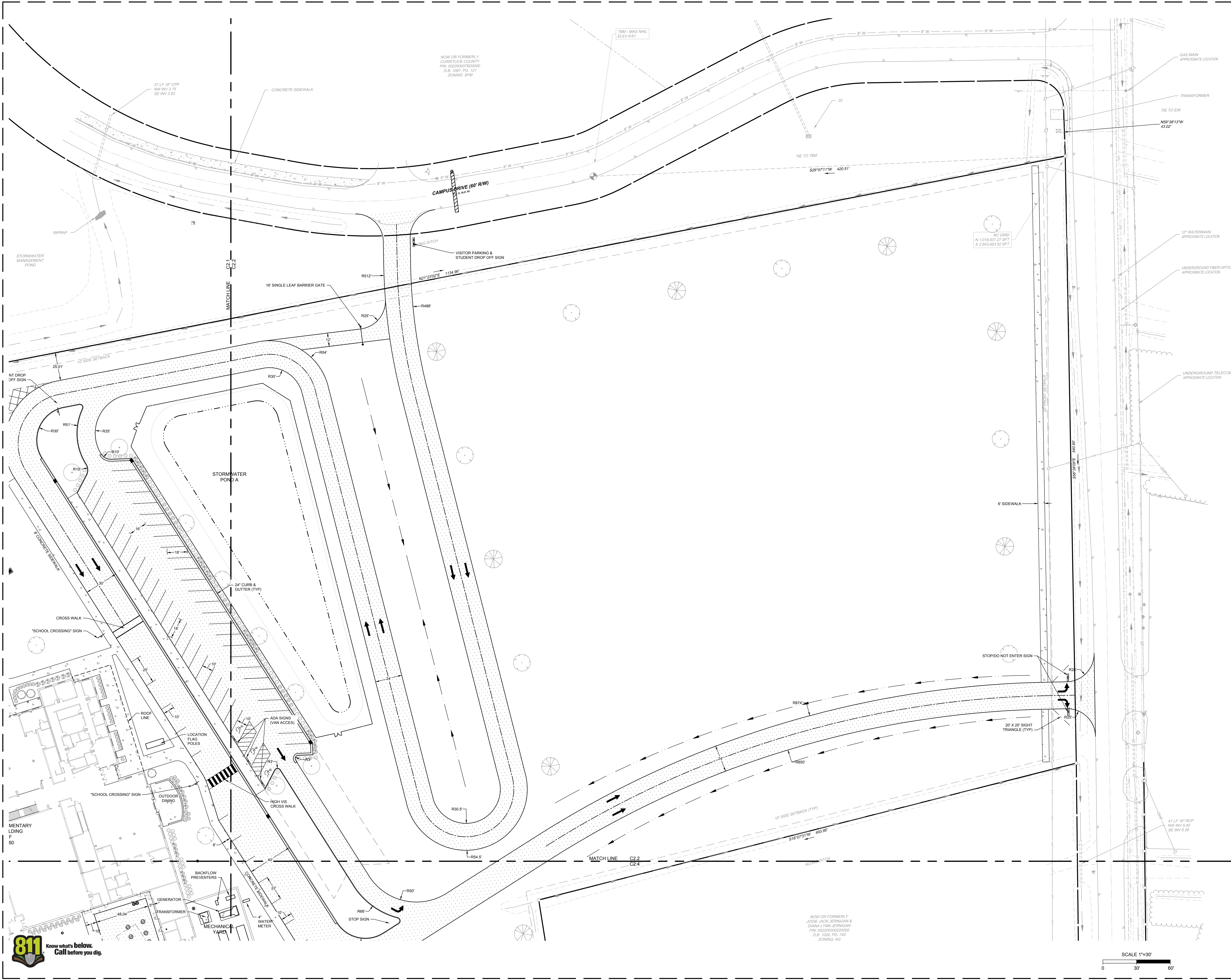
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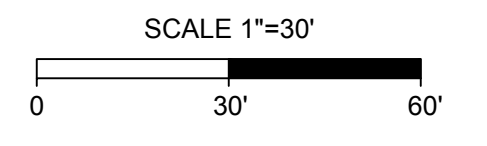
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70% CD
PROJECT PHASE
2207
BOOMERANG DESIGN PROJECT NUMBER
05.24.2023
DRAWING RELEASE DATE

**SITE
PLAN**
SHEET TITLE
C2.2
SHEET



NOW OR FORMERLY
JODIE JACK, JERINIGAN &
DIANNA LYNN JERINIGAN
PIN: 0022000079000000
D.B. 1087, PG. 121
ZONING: SP4



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**TULLS CREEK
ELEMENTARY
SCHOOL**
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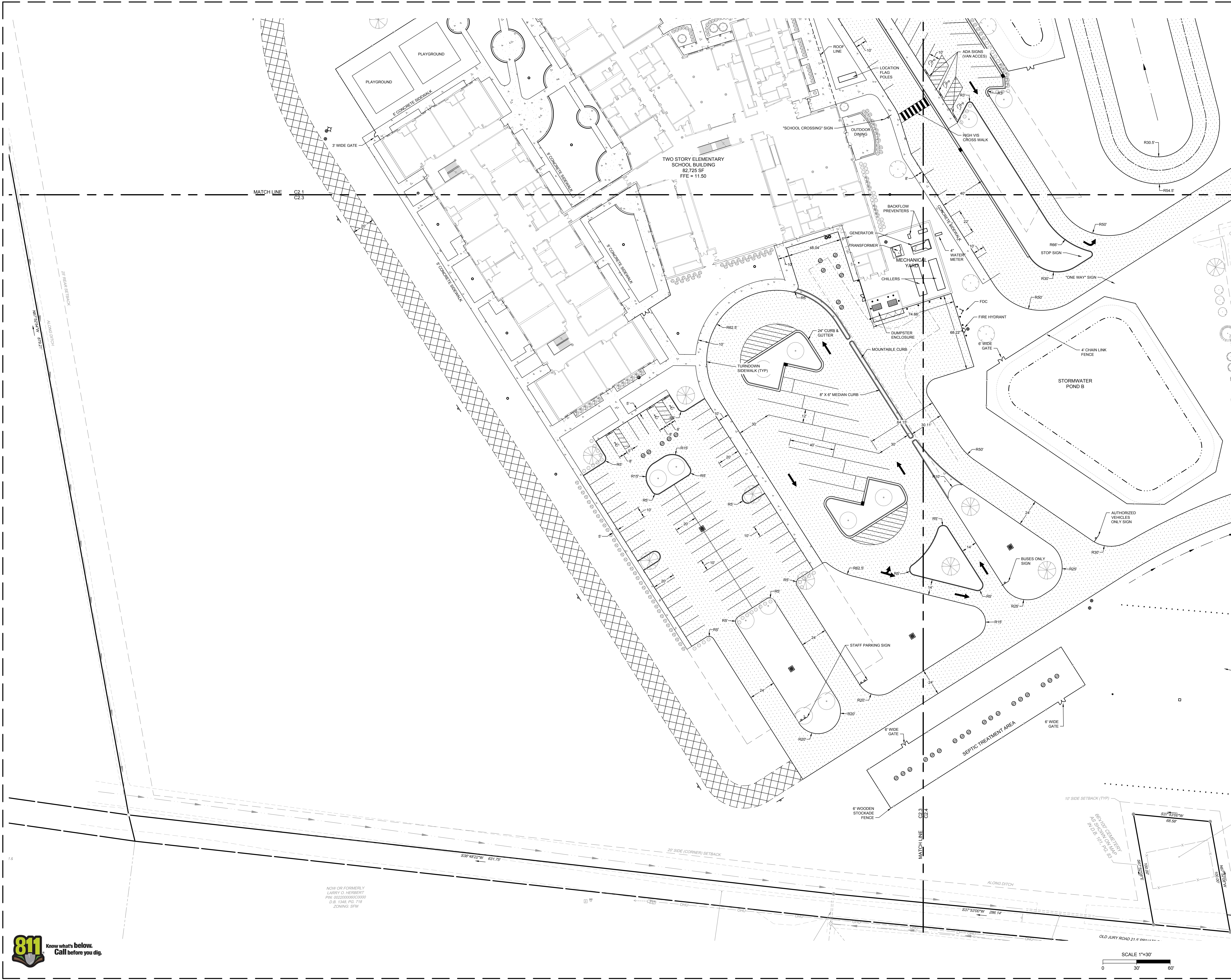
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PROJECT PHASE
2207
BOOMERANG DESIGN PROJECT NUMBER
05.24.2023
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**SITE
PLAN**
SHEET TITLE
C2.3
SHEET



NOW OR FORMERLY
LARRY O. HERBERT
PIN: 00220006000000
C.S. 1346, P.C. 718
ZONING-SFM



PROGRESS PRINT
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CONSTRUCTION

**TULLS CREEK
ELEMENTARY
SCHOOL**
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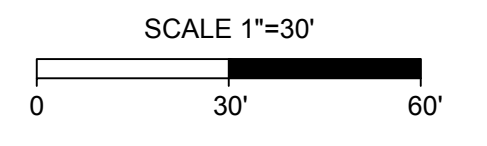
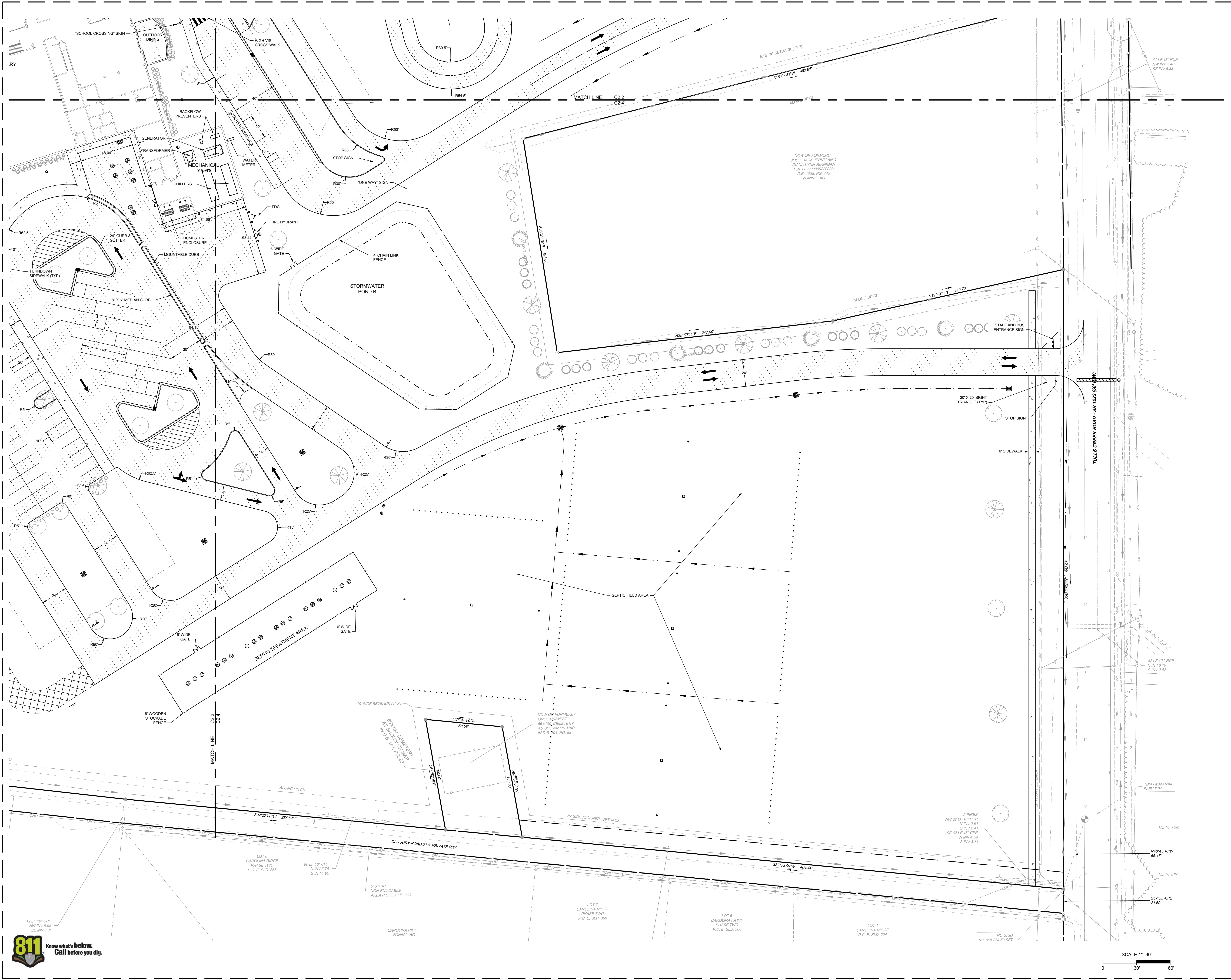
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REVISIONS

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2207
BOOMERANG DESIGN PROJECT NUMBER
05.24.2023
DRAWING RELEASE DATE

**SITE
PLAN**
SHEET TITLE
C2.4
SHEET



PROGRESS PRINT
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CONSTRUCTION

**TULLS CREEK
ELEMENTARY
SCHOOL**
PROJECT TITLE

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05.24.2023
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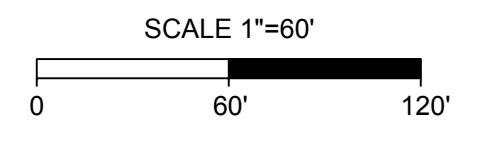
**STORMWATER DRAINAGE
PLAN**

SHEET TITLE
C3.0
SHEET

I, _____ OWNER/AGENT HEREBY CERTIFY THE INFORMATION INCLUDED ON THIS AND ATTACHED PAGES IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.

ONE THE PLAN ENTITLED "TULLS CREEK ELEMENTARY SCHOOL", STORMWATER DRAINAGE IMPROVEMENTS SHALL BE INSTALLED ACCORDING TO THESE PLANS AND SPECIFICATIONS APPROVED BY CURRITUCK COUNTY. YEARLY INSPECTIONS ARE REQUIRED AS PART OF THE STORMWATER PLAN. THE OWNER IS RESPONSIBLE FOR ALL MAINTENANCE REQUIRED. CURRITUCK COUNTY ASSUMES NO RESPONSIBILITY FOR THE DESIGN, MAINTENANCE, OR PERFORMANCE OF THE STORMWATER IMPROVEMENTS.

DATE: _____ OWNER/AGENT: _____



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NOT FOR
CONSTRUCTION

**TULLS CREEK
ELEMENTARY
SCHOOL**
PROJECT TITLE

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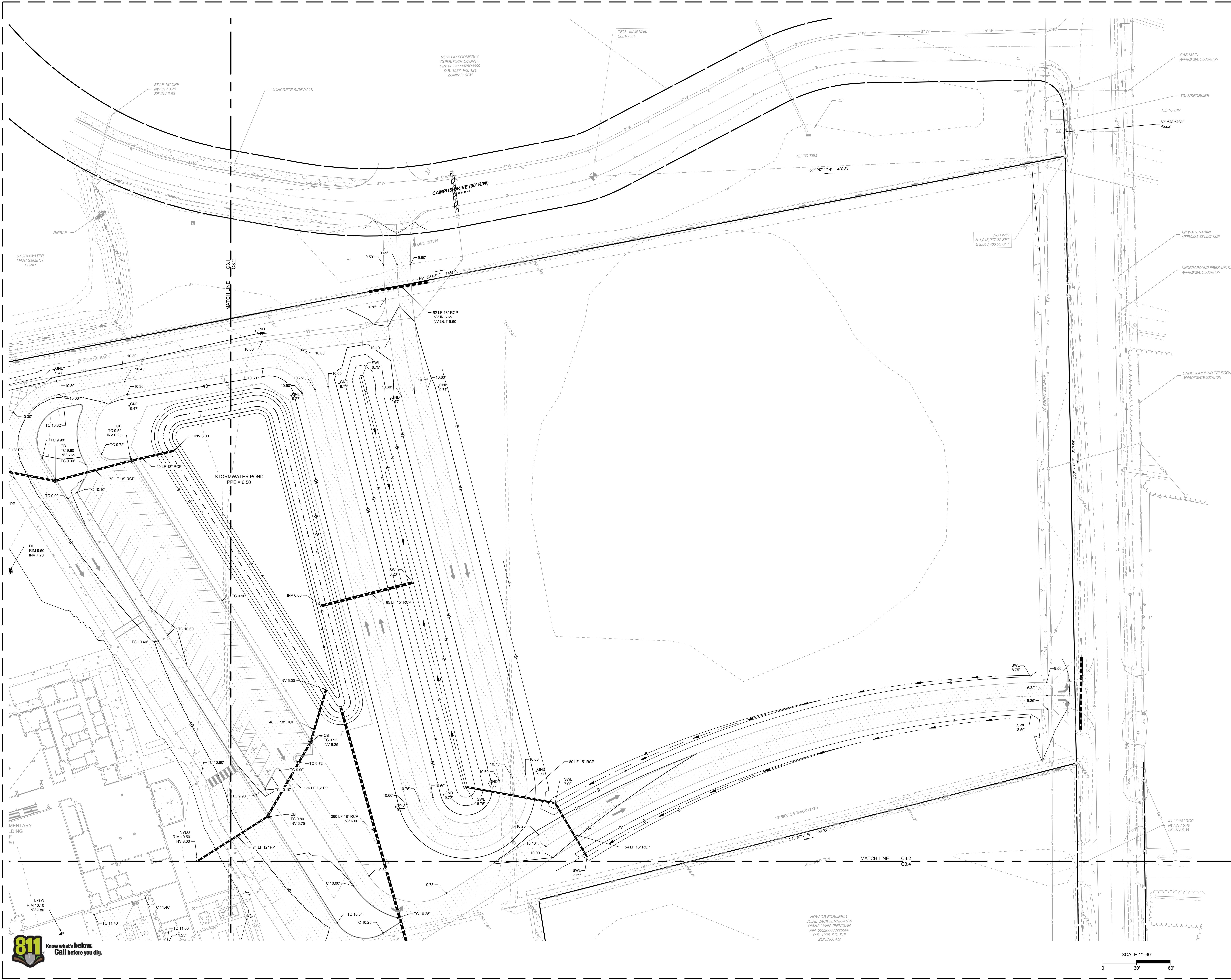
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GRADING PLAN

SHEET TITLE
C3.2
SHEET

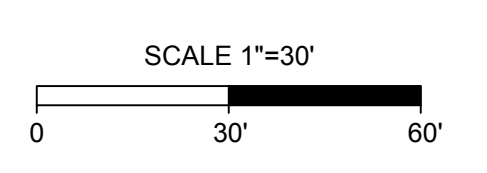


NOW OR FORMERLY
CURRITUCK COUNTY
PIN: 0022000079000000
D.B. 1087, PG. 121
ZONING: SPW

TBM - MAG NAIL
ELEV 8.61

NC GRID
N 1,018,937.27 SFT
E 2,843,463.52 SFT

NOW OR FORMERLY
JODIE JACK, JERINIGAN &
DIANNA LYNN JERINIGAN
PIN: 0022000002000000
D.B. 1028, PG. 248
ZONING: AG



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**TULLS CREEK
ELEMENTARY
SCHOOL**
PROJECT TITLE

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05.24.2023
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GRADING PLAN

SHEET TITLE
C3.3
SHEET



NOW OR FORMERLY
LABRY O. HERBERT
PIN: 0022000000000000
D.S. 1346, P.C. 718
ZONING-SFM



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**TULLS CREEK
ELEMENTARY
SCHOOL**
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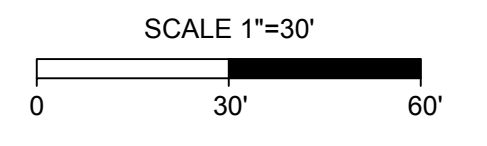
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GRADING PLAN

SHEET TITLE
C3.4

SHEET



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ELEMENTARY
SCHOOL**
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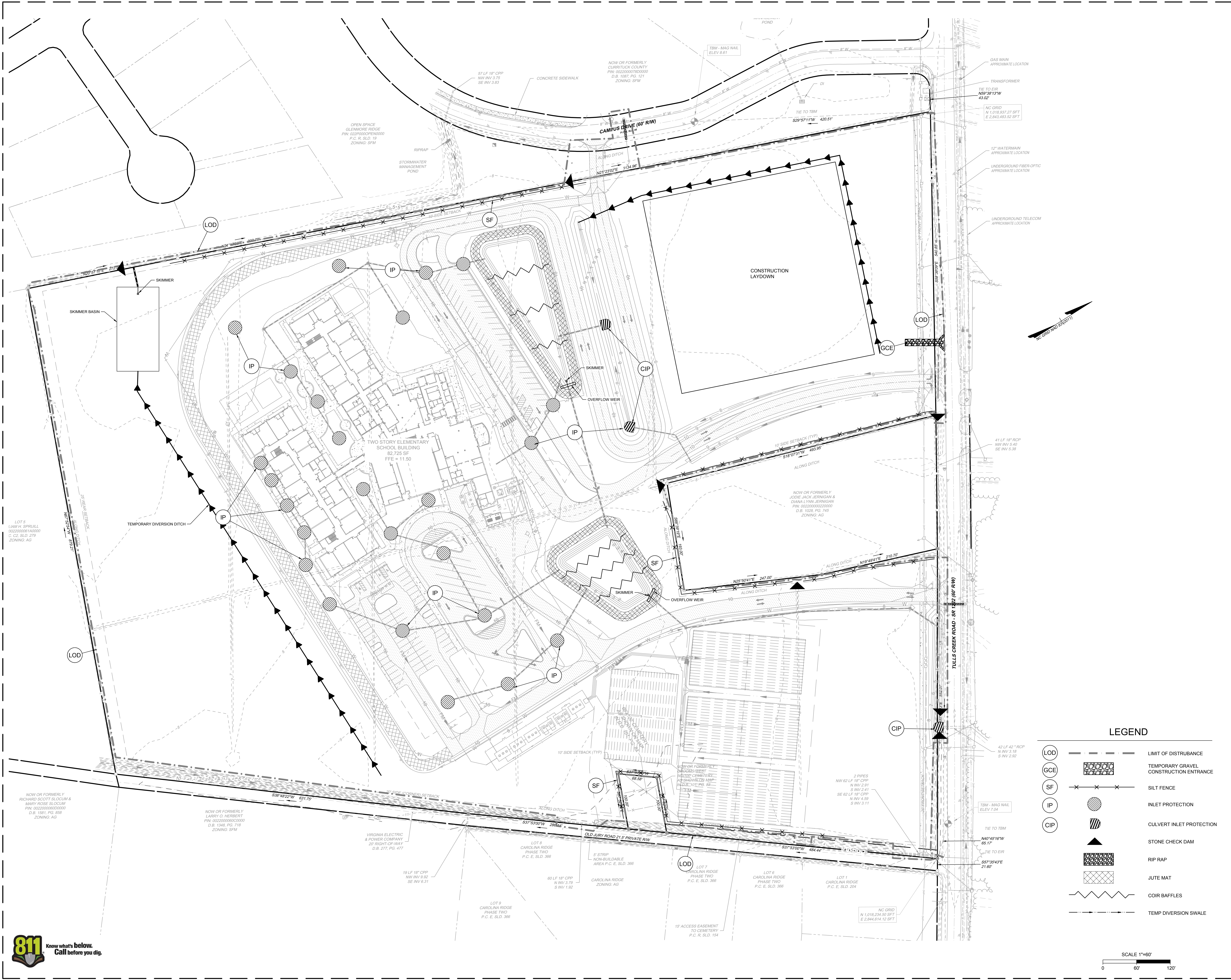
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**EROSION CONTROL
PLAN**

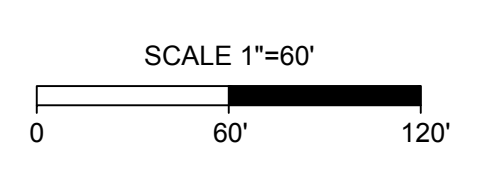
SHEET TITLE
C4.0

SHEET



LEGEND

LOD	--- ---	LIMIT OF DISTURBANCE
GCE	[Pattern]	TEMPORARY GRAVEL CONSTRUCTION ENTRANCE
SF	---x---	SILT FENCE
IP	[Symbol]	INLET PROTECTION
CIP	[Symbol]	CULVERT INLET PROTECTION
	[Symbol]	STONE CHECK DAM
	[Pattern]	RIP RAP
	[Pattern]	JUTE MAT
	[Symbol]	COIR Baffles
	[Symbol]	TEMP DIVERSION SWALE



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SCHOOL**
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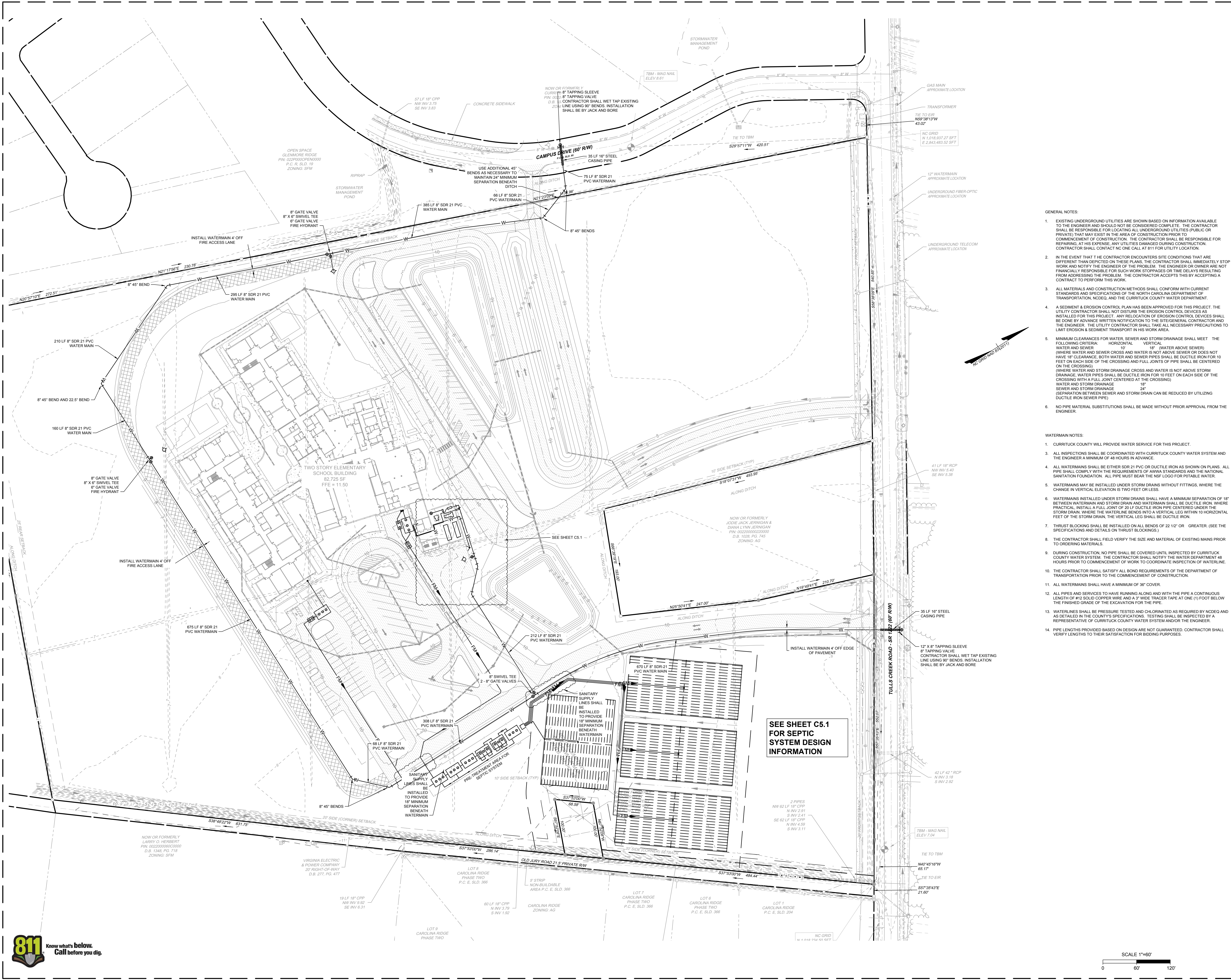
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**UTILITIES
PLAN**
SHEET TITLE
C5.0

SHEET



- GENERAL NOTES:**
- EXISTING UNDERGROUND UTILITIES ARE SHOWN BASED ON INFORMATION AVAILABLE TO THE ENGINEER AND SHOULD NOT BE CONSIDERED COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES (PUBLIC OR PRIVATE) THAT MAY EXIST IN THE AREA OF CONSTRUCTION PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING, AT HIS EXPENSE, ANY UTILITIES DAMAGED DURING CONSTRUCTION. CONTRACTOR SHALL CONTACT NC ONE CALL AT 811 FOR UTILITY LOCATION.
 - IN THE EVENT THAT THE CONTRACTOR ENCOUNTERS SITE CONDITIONS THAT ARE DIFFERENT THAN DEPICTED ON THESE PLANS, THE CONTRACTOR SHALL IMMEDIATELY STOP WORK AND NOTIFY THE ENGINEER OF THE PROBLEM. THE ENGINEER OR OWNER ARE NOT FINANCIALLY RESPONSIBLE FOR SUCH WORK STOPPAGES OR TIME DELAYS RESULTING FROM ADDRESSING THE PROBLEM. THE CONTRACTOR ACCEPTS THIS BY ACCEPTING A CONTRACT TO PERFORM THIS WORK.
 - ALL MATERIALS AND CONSTRUCTION METHODS SHALL CONFORM WITH CURRENT STANDARDS AND SPECIFICATIONS OF THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION, NCDOT, AND THE CURRITUCK COUNTY WATER DEPARTMENT.
 - A SEDIMENT & EROSION CONTROL PLAN HAS BEEN APPROVED FOR THIS PROJECT. THE UTILITY CONTRACTOR SHALL NOT DISTURB THE EROSION CONTROL DEVICES AS INSTALLED FOR THIS PROJECT. ANY RELOCATION OF EROSION CONTROL DEVICES SHALL BE DONE BY ADVANCE WRITTEN NOTIFICATION TO THE SITE GENERAL CONTRACTOR AND THE ENGINEER. THE UTILITY CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO LIMIT EROSION & SEDIMENT TRANSPORT IN HIS WORK AREA.
 - MINIMUM CLEARANCES FOR WATER, SEWER AND STORM DRAINAGE SHALL MEET THE FOLLOWING CRITERIA:

HORIZONTAL	VERTICAL
WATER AND SEWER	18" (WATER ABOVE SEWER)
(WHERE WATER AND SEWER CROSS AND WATER IS NOT ABOVE SEWER OR DOES NOT HAVE 18" CLEARANCE, BOTH WATER AND SEWER PIPES SHALL BE DUCTILE IRON FOR 10 FEET ON EACH SIDE OF THE CROSSING AND FULL JOINTS OF PIPE SHALL BE CENTERED ON THE CROSSING.)	
(WHERE WATER AND STORM DRAINAGE CROSS AND WATER IS NOT ABOVE STORM DRAINAGE, WATER PIPES SHALL BE DUCTILE IRON FOR 10 FEET ON EACH SIDE OF THE CROSSING WITH A FULL JOINT CENTERED AT THE CROSSING.)	
WATER AND STORM DRAINAGE	18"
SEWER AND STORM DRAINAGE	24"
(SEPARATION BETWEEN SEWER AND STORM DRAIN CAN BE REDUCED BY UTILIZING DUCTILE IRON SEWER PIPE.)	
 - NO PIPE MATERIAL SUBSTITUTIONS SHALL BE MADE WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

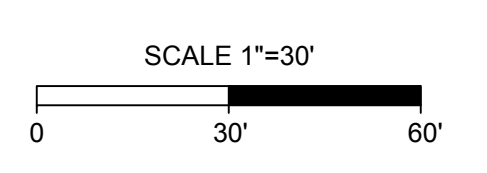
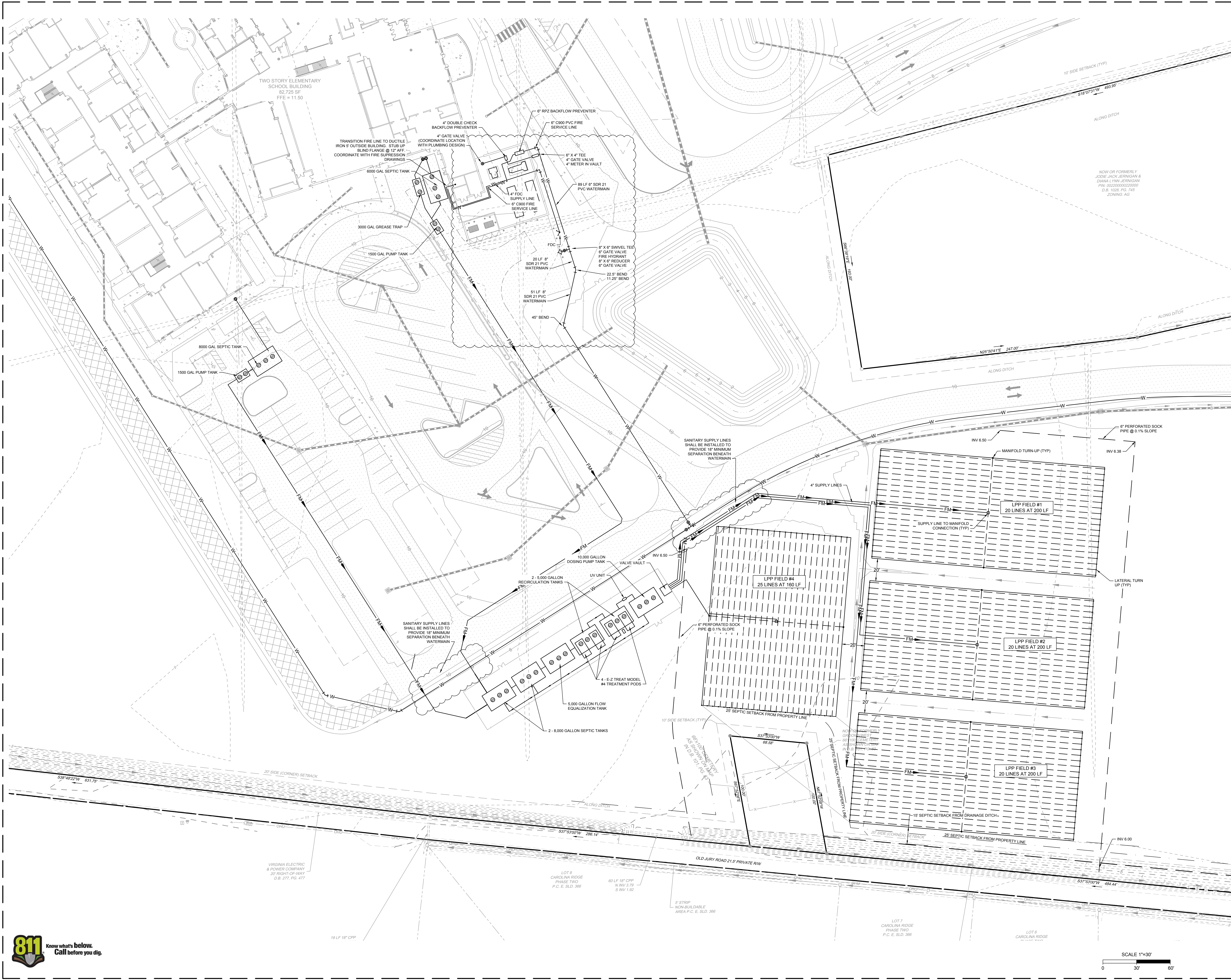
- WATERMAIN NOTES:**
- CURRITUCK COUNTY WILL PROVIDE WATER SERVICE FOR THIS PROJECT.
 - ALL INSPECTIONS SHALL BE COORDINATED WITH CURRITUCK COUNTY WATER SYSTEM AND THE ENGINEER A MINIMUM OF 48 HOURS IN ADVANCE.
 - ALL WATERMANS SHALL BE EITHER SDR 21 PVC OR DUCTILE IRON AS SHOWN ON PLANS. ALL PIPE SHALL COMPLY WITH THE REQUIREMENTS OF AWWA STANDARDS AND THE NATIONAL SANITATION FOUNDATION. ALL PIPE MUST BEAR THE NSF LOGO FOR POTABLE WATER.
 - WATERMANS MAY BE INSTALLED UNDER STORM DRAINS WITHOUT FITTINGS, WHERE THE CHANGE IN VERTICAL ELEVATION IS TWO FEET OR LESS.
 - WATERMANS INSTALLED UNDER STORM DRAINS SHALL HAVE A MINIMUM SEPARATION OF 18" BETWEEN WATERMAN AND STORM DRAIN AND WATERMAN SHALL BE DUCTILE IRON, WHERE PRACTICAL, INSTALL A FULL JOINT OF 20 LF DUCTILE IRON PIPE CENTERED UNDER THE STORM DRAIN, WHERE THE WATERLINE BENDS INTO A VERTICAL LEG WITHIN 10 HORIZONTAL FEET OF THE STORM DRAIN, THE VERTICAL LEG SHALL BE DUCTILE IRON.
 - THRUST BLOCKING SHALL BE INSTALLED ON ALL BENDS OF 22 1/2" OR GREATER. (SEE THE SPECIFICATIONS AND DETAILS ON THRUST BLOCKINGS.)
 - THE CONTRACTOR SHALL FIELD VERIFY THE SIZE AND MATERIAL OF EXISTING MAINS PRIOR TO ORDERING MATERIALS.
 - DURING CONSTRUCTION, NO PIPE SHALL BE COVERED UNTIL INSPECTED BY CURRITUCK COUNTY WATER SYSTEM. THE CONTRACTOR SHALL NOTIFY THE WATER DEPARTMENT 48 HOURS PRIOR TO COMMENCEMENT OF WORK TO COORDINATE INSPECTION OF WATERLINE.
 - THE CONTRACTOR SHALL SATISFY ALL BOND REQUIREMENTS OF THE DEPARTMENT OF TRANSPORTATION PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
 - ALL WATERMANS SHALL HAVE A MINIMUM OF 36" COVER.
 - ALL PIPES AND SERVICES TO HAVE RUNNING ALONG AND WITH THE PIPE A CONTINUOUS LENGTH OF #12 SOLID COPPER WIRE AND A 3" WIDE TRACER TAPE AT ONE (1) FOOT BELOW THE FINISHED GRADE OF THE EXCAVATION FOR THE PIPE.
 - WATERLINES SHALL BE PRESSURE TESTED AND CHLORINATED AS REQUIRED BY NCDOT AND AS DETAILED IN THE COUNTY'S SPECIFICATIONS. TESTING SHALL BE INSPECTED BY A REPRESENTATIVE OF CURRITUCK COUNTY WATER SYSTEM AND/OR THE ENGINEER.
 - PIPE LENGTHS PROVIDED BASED ON DESIGN ARE NOT GUARANTEED. CONTRACTOR SHALL VERIFY LENGTHS TO THEIR SATISFACTION FOR BIDDING PURPOSES.

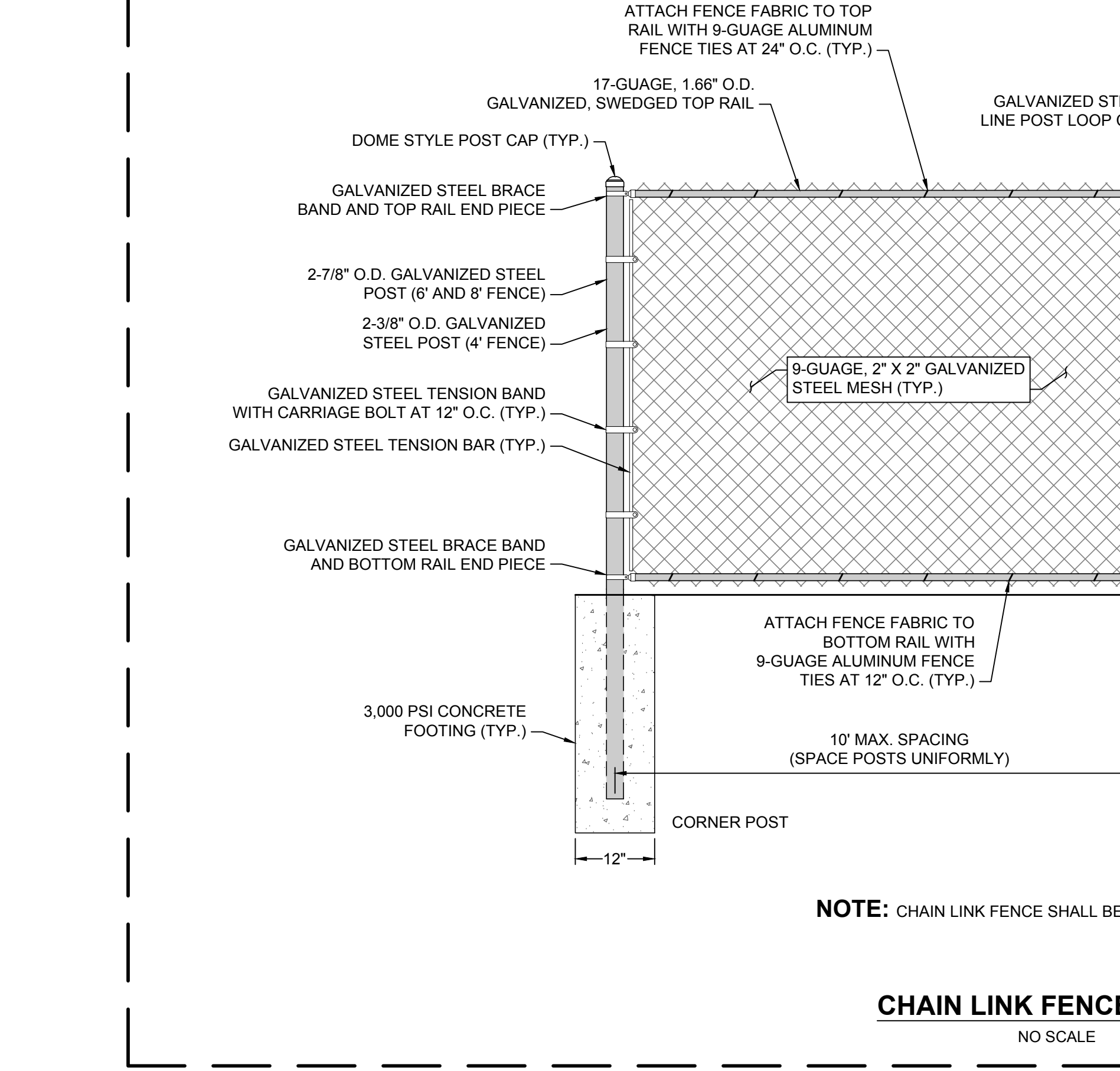
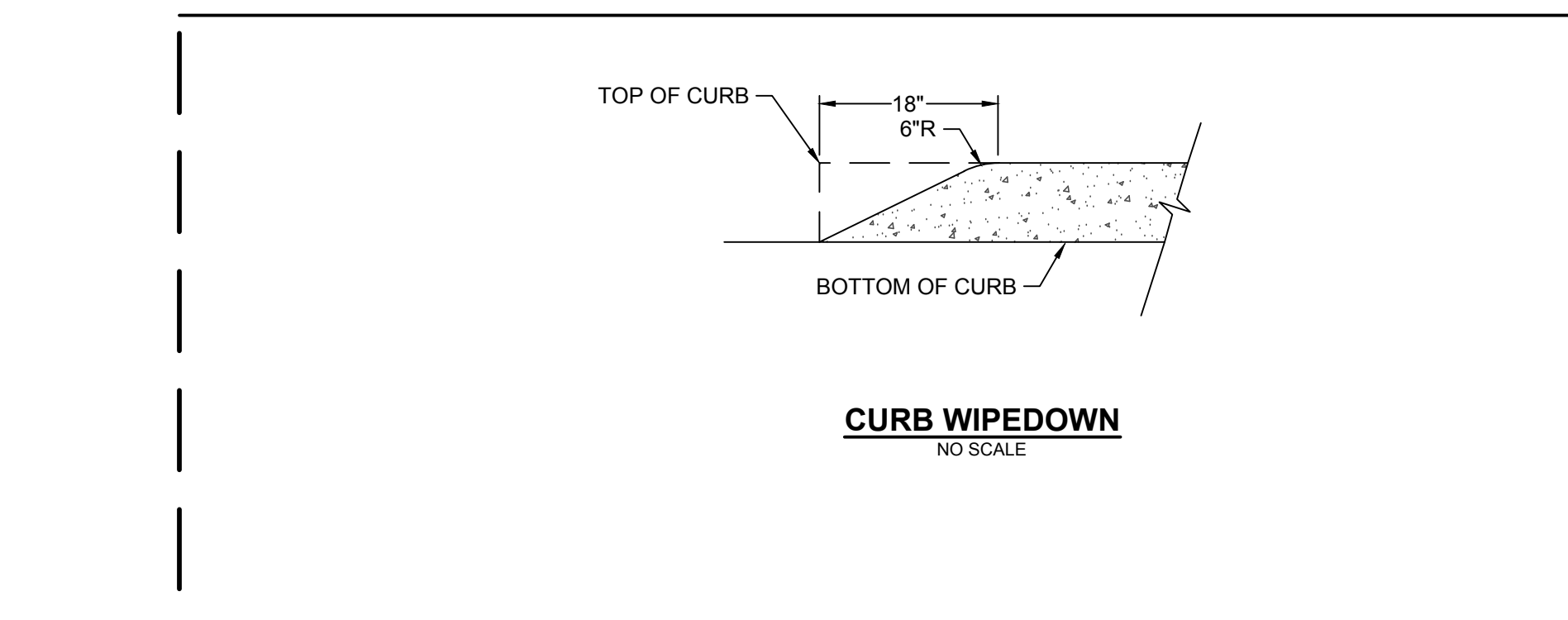
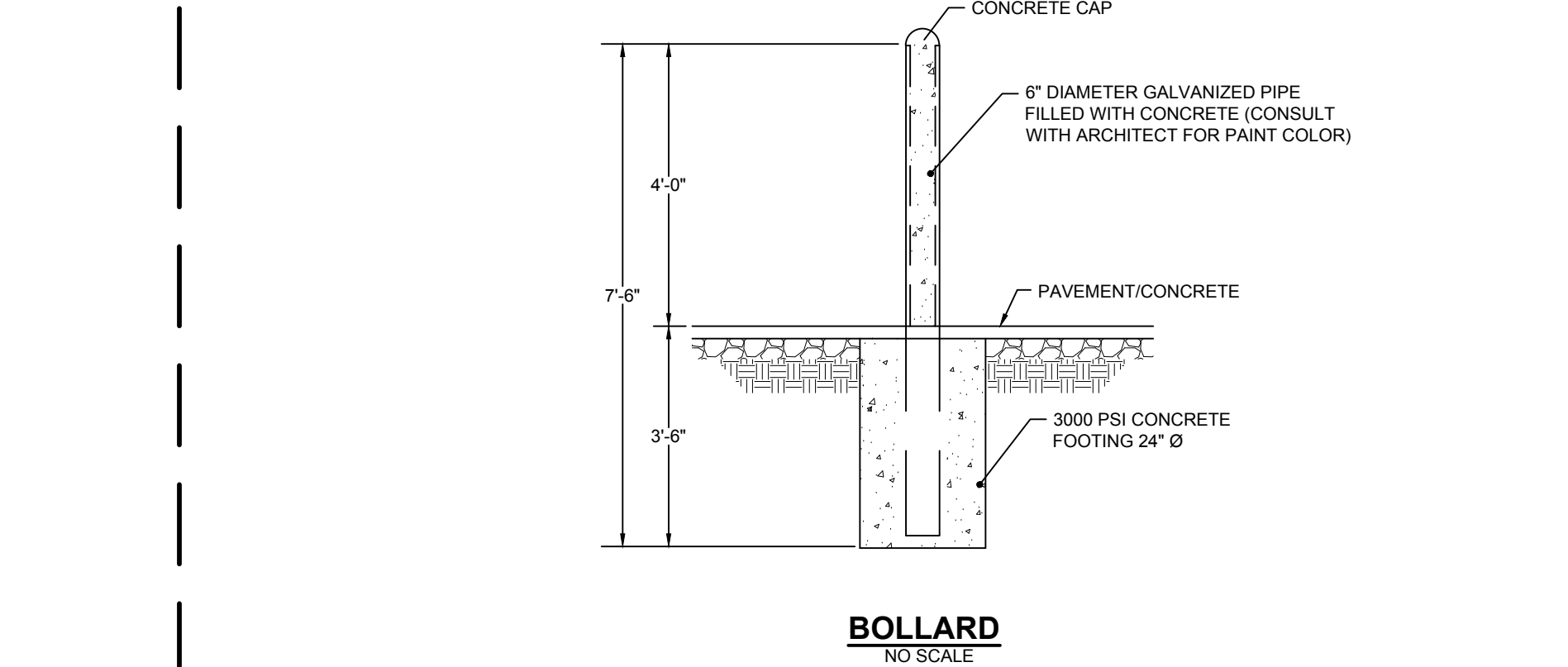
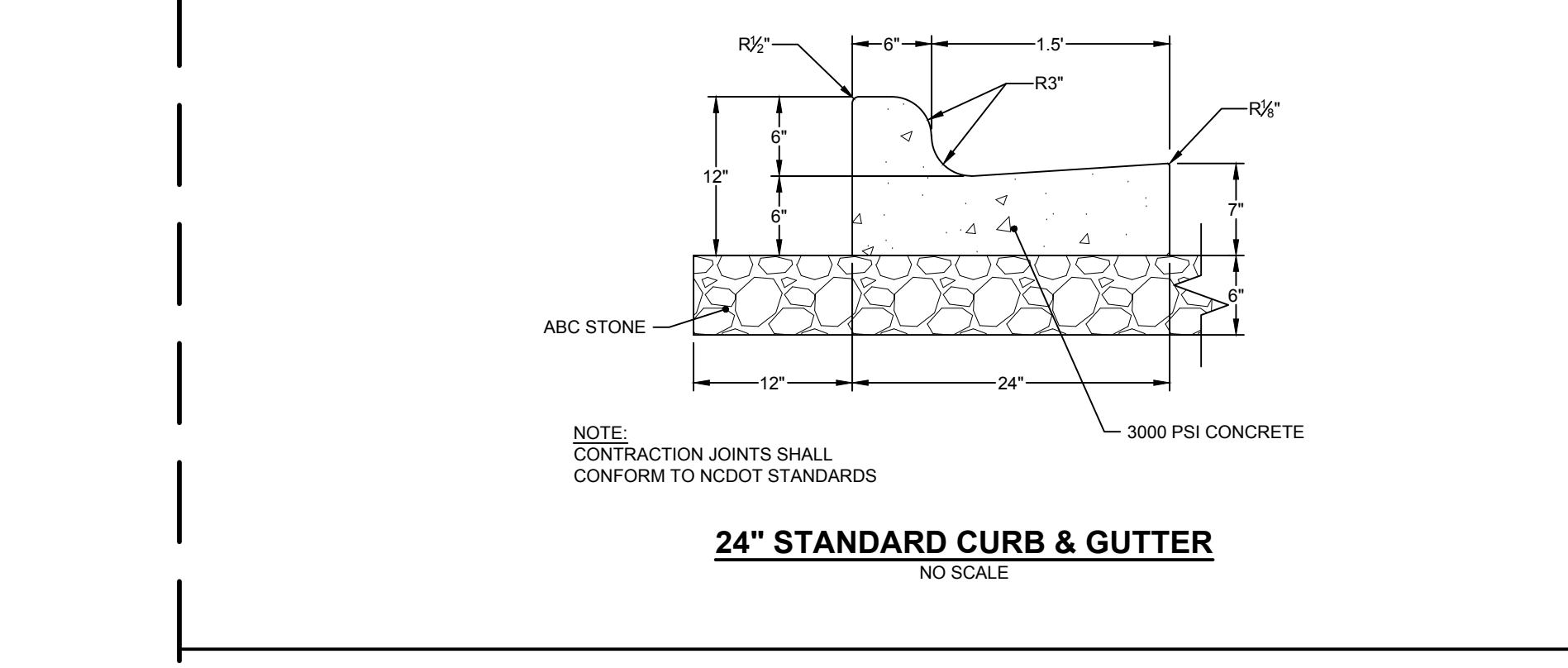
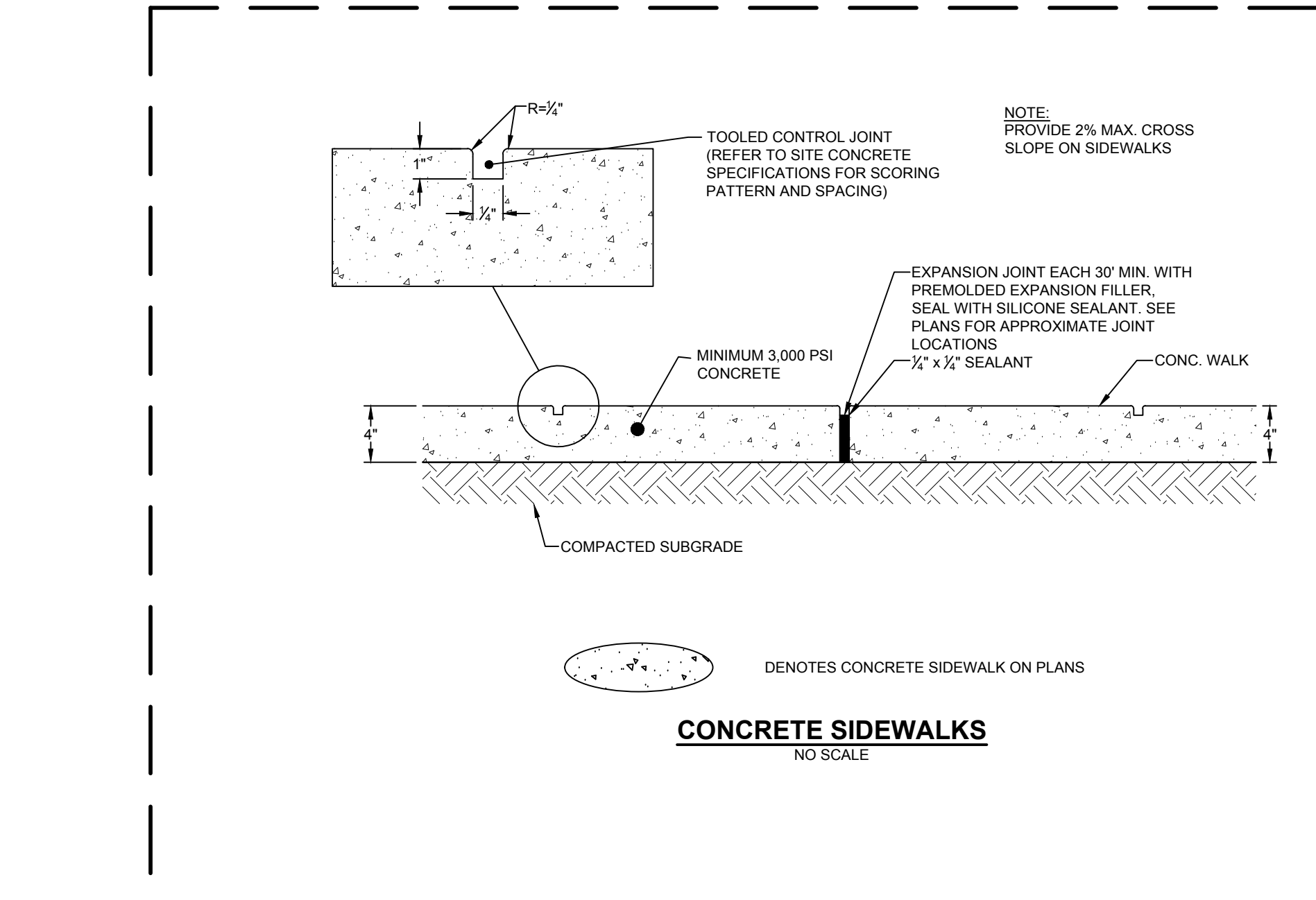
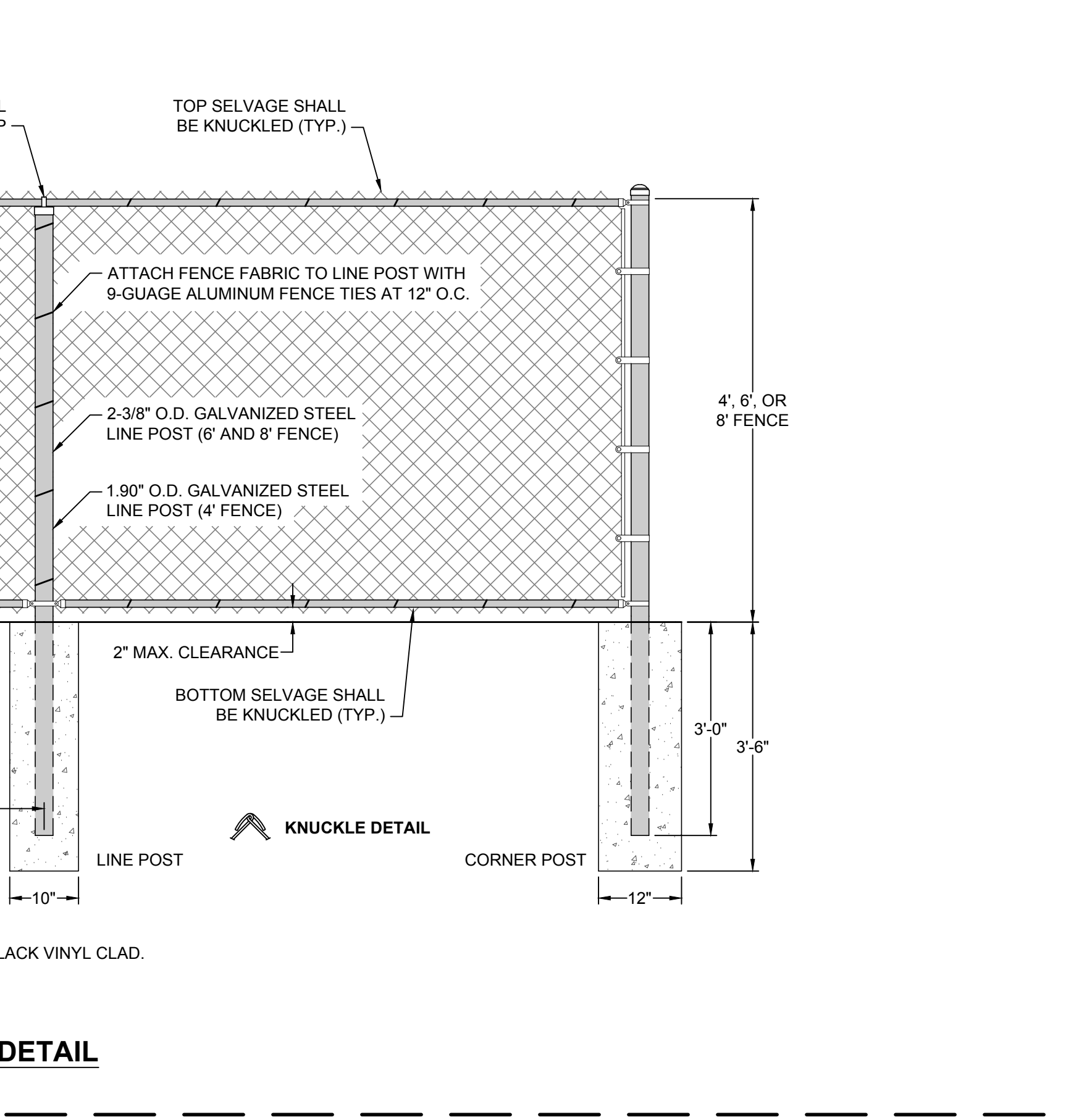
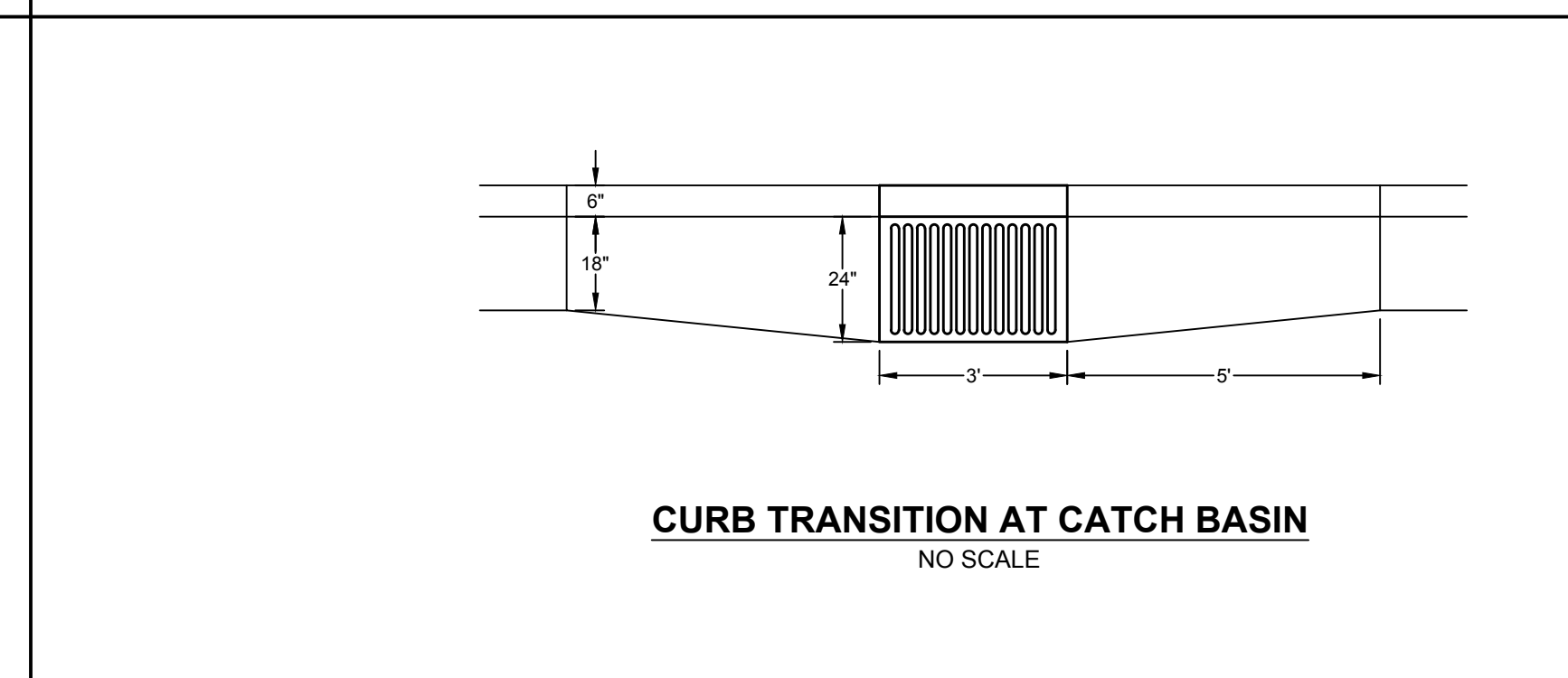
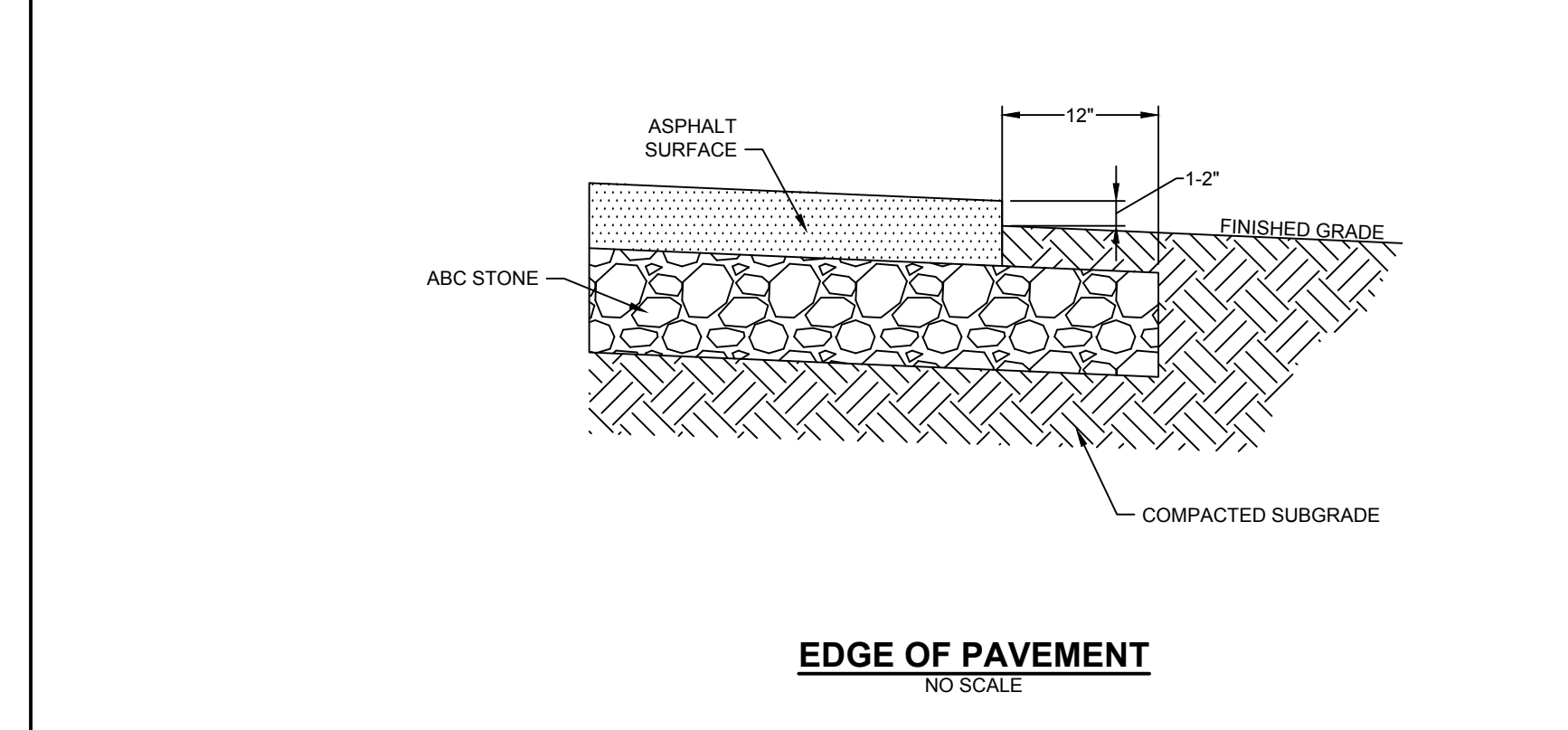
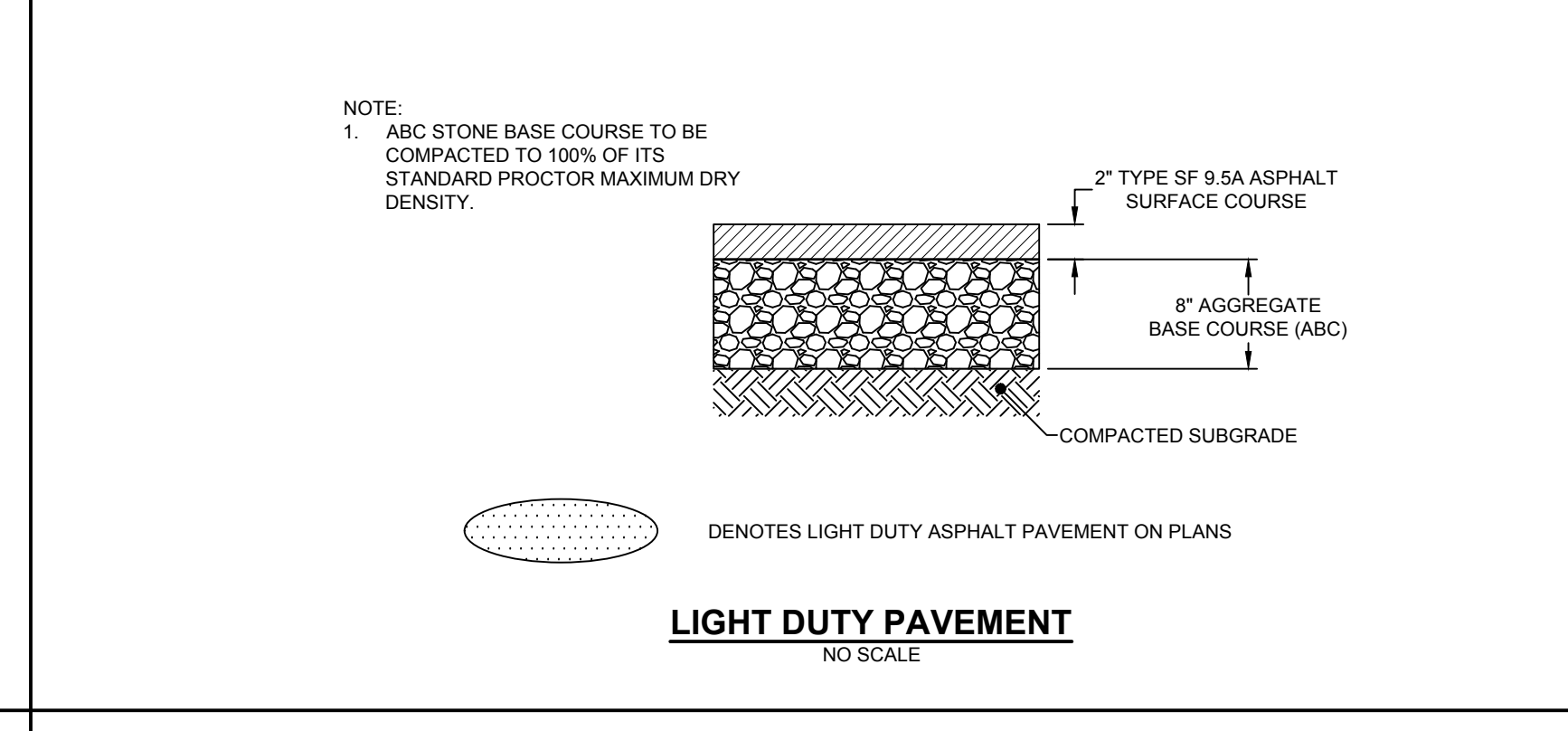
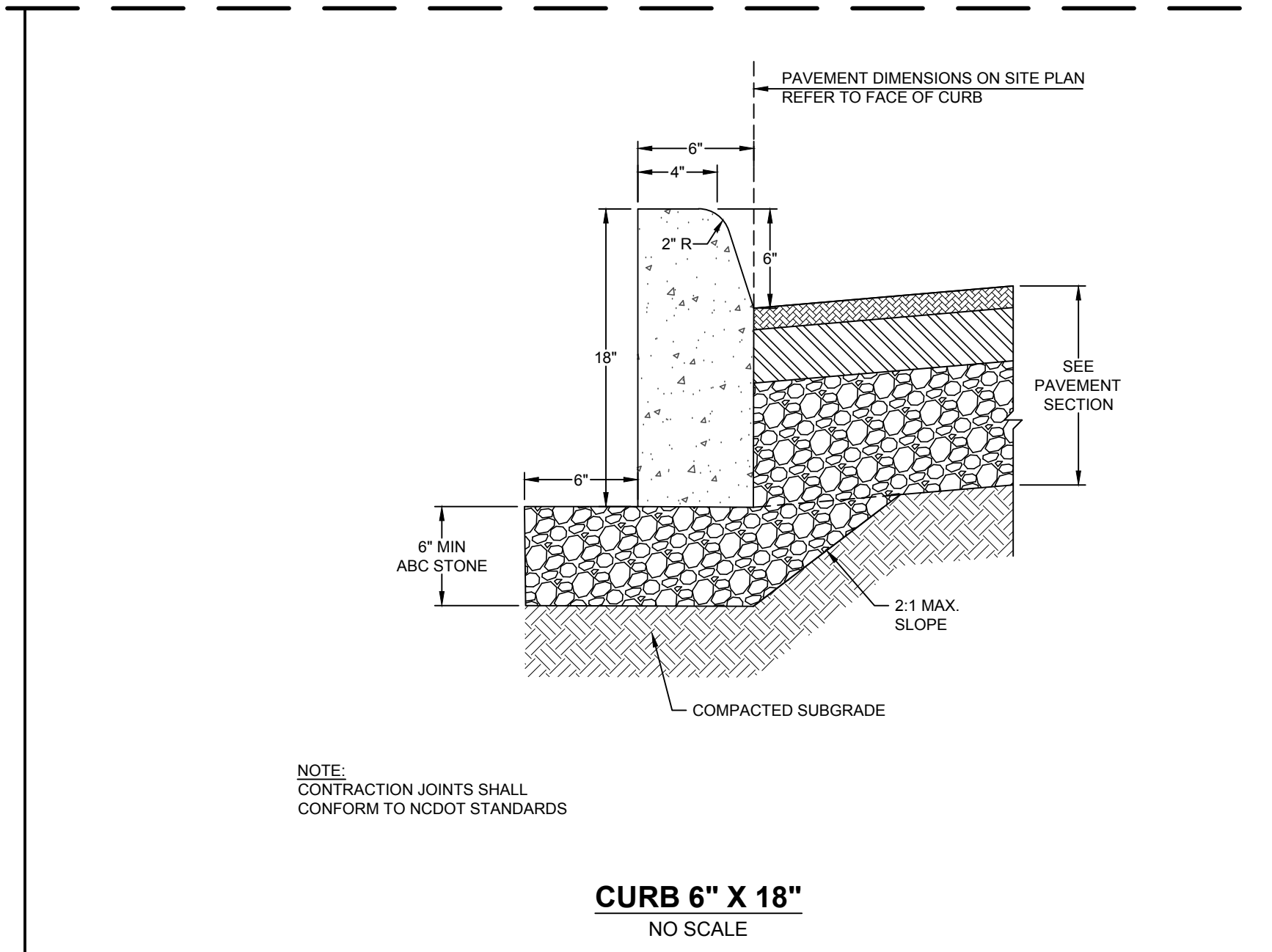
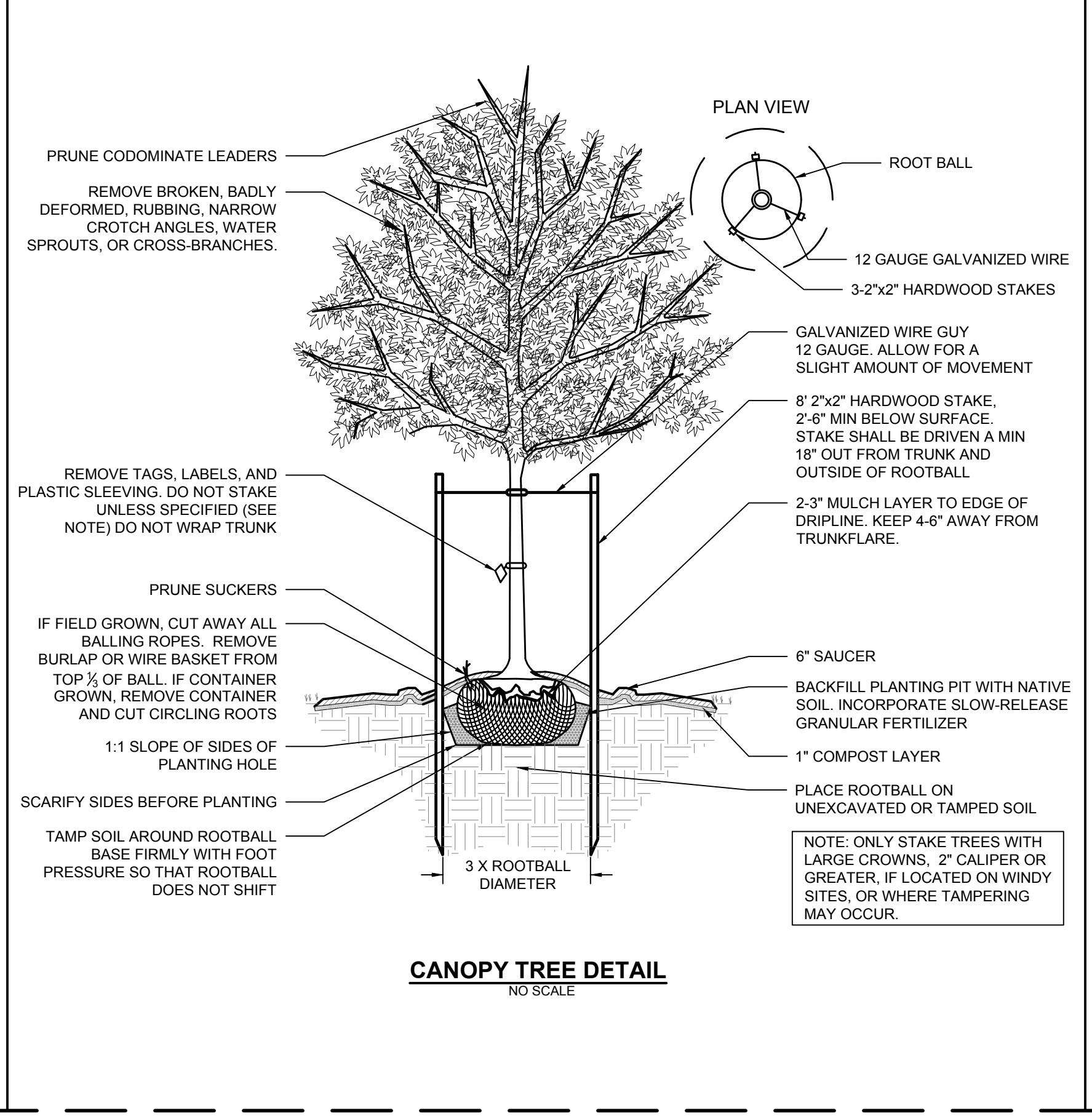
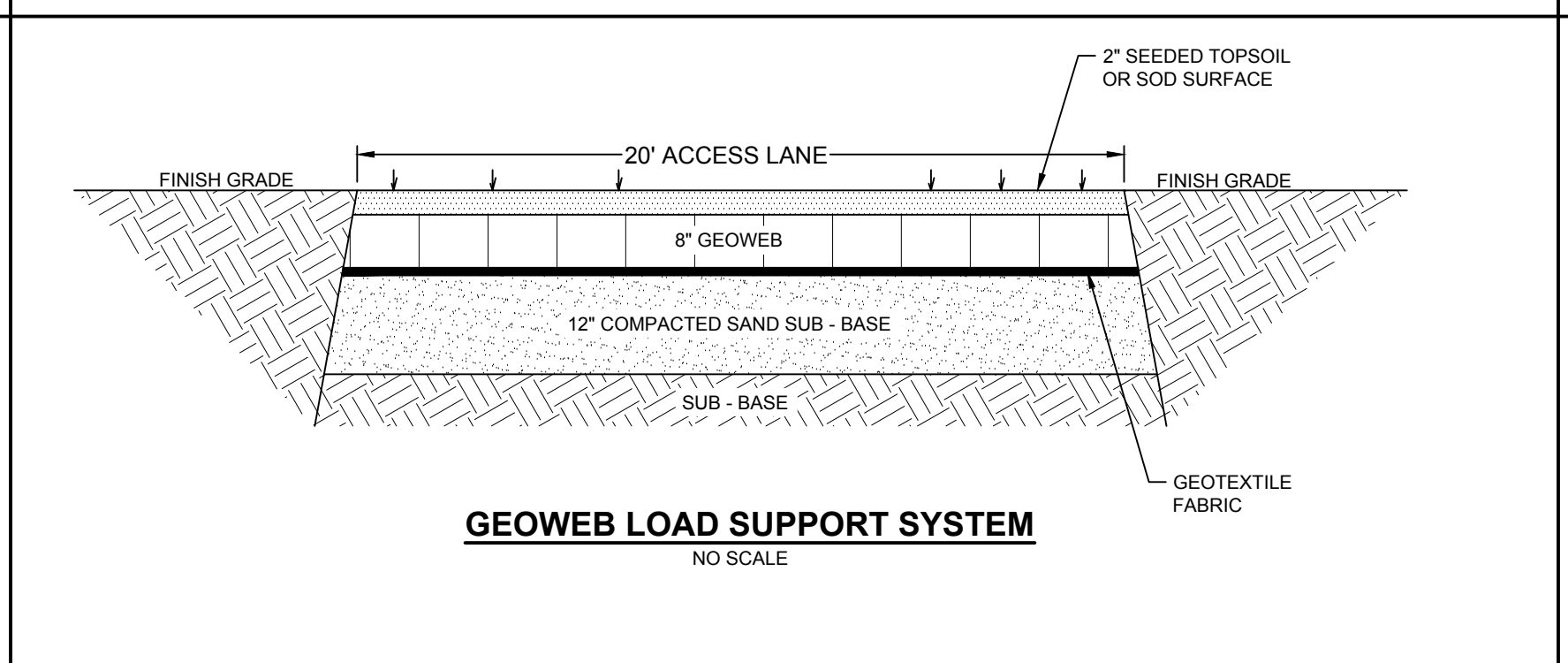
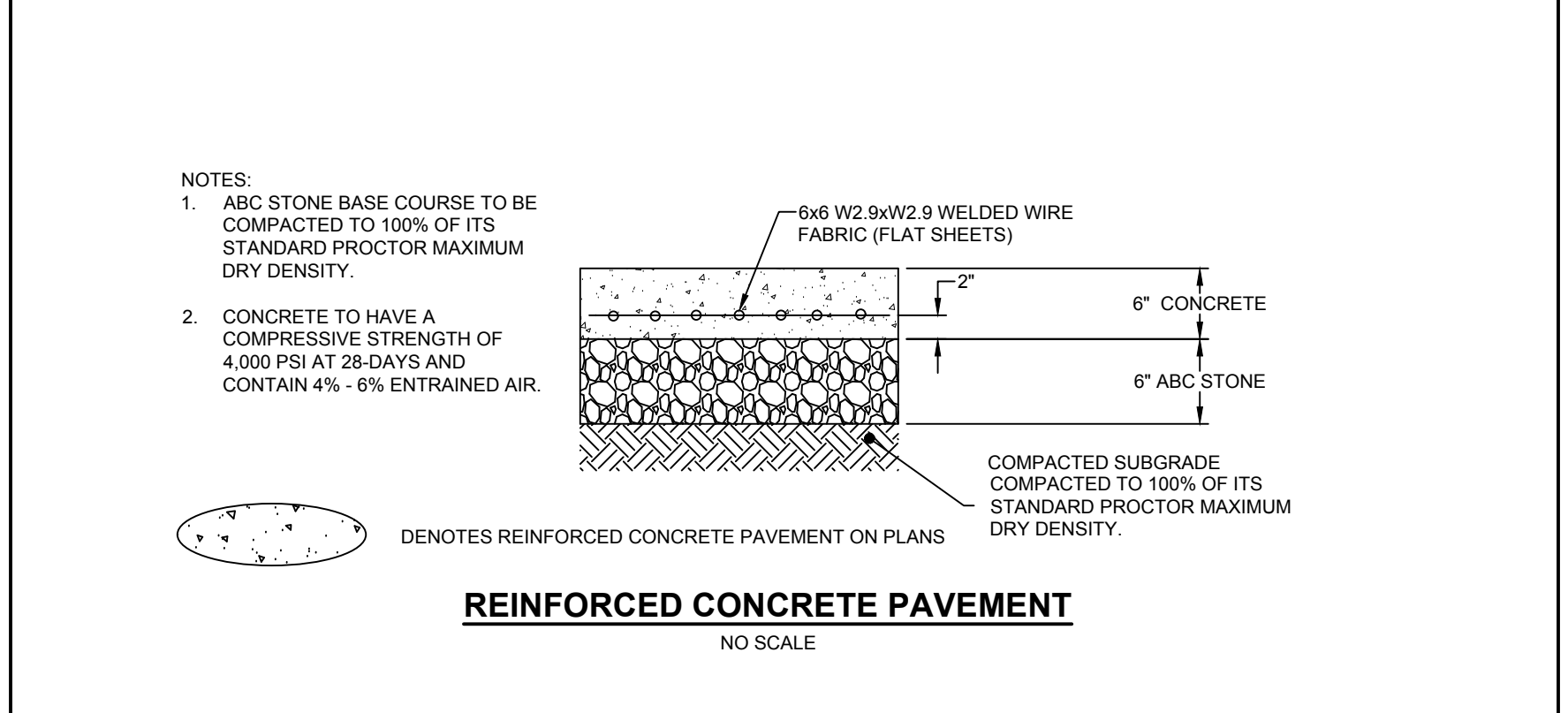
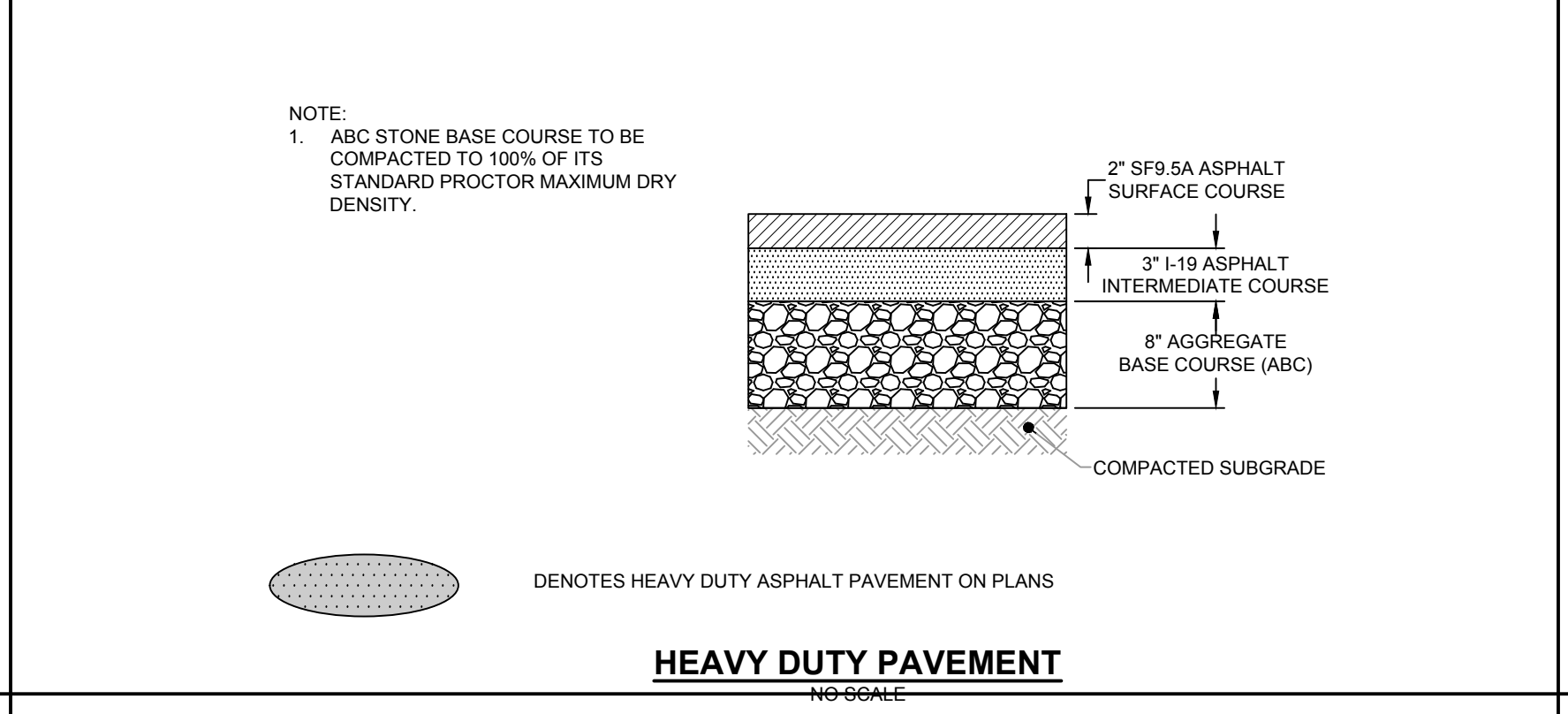
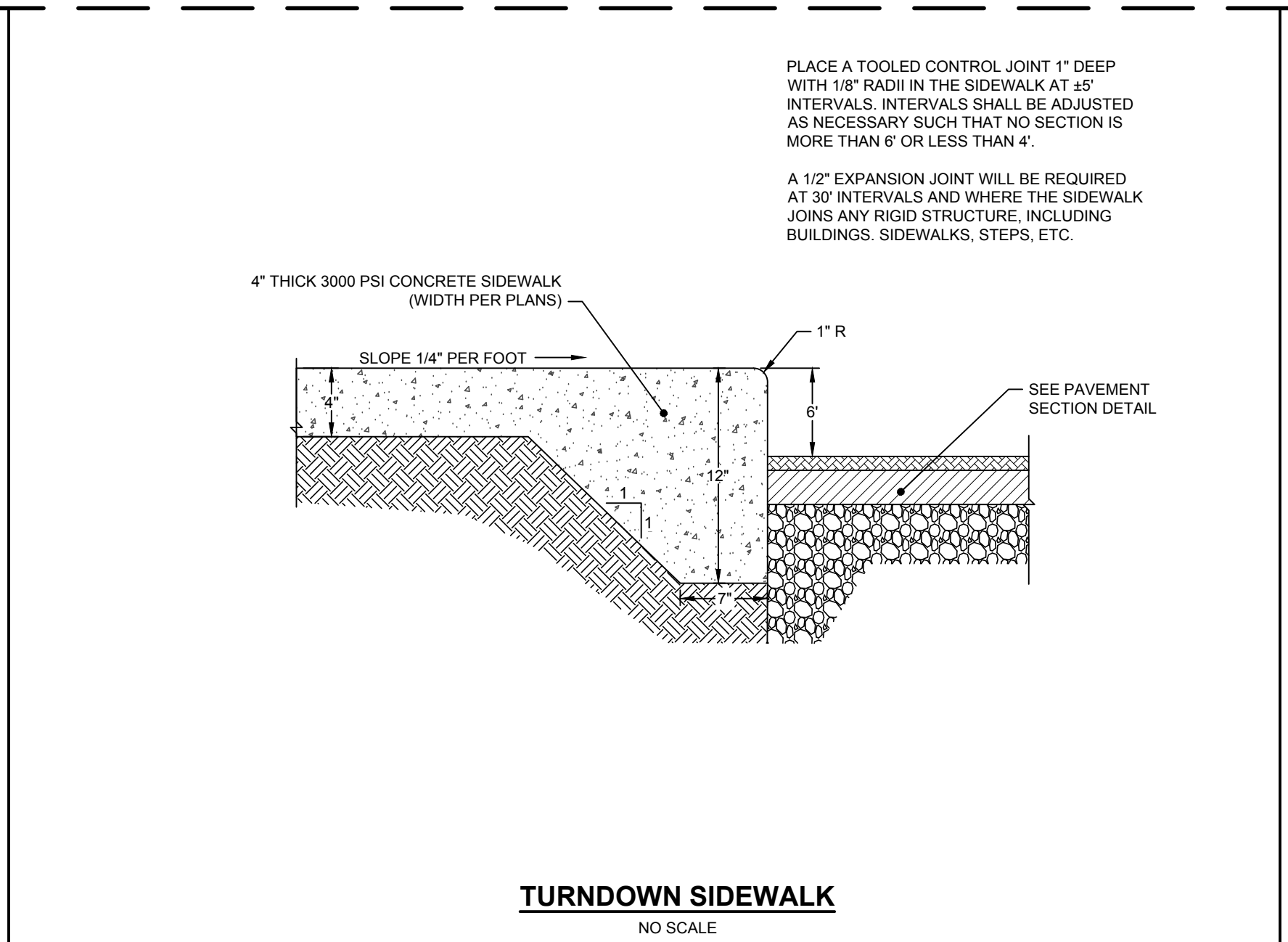
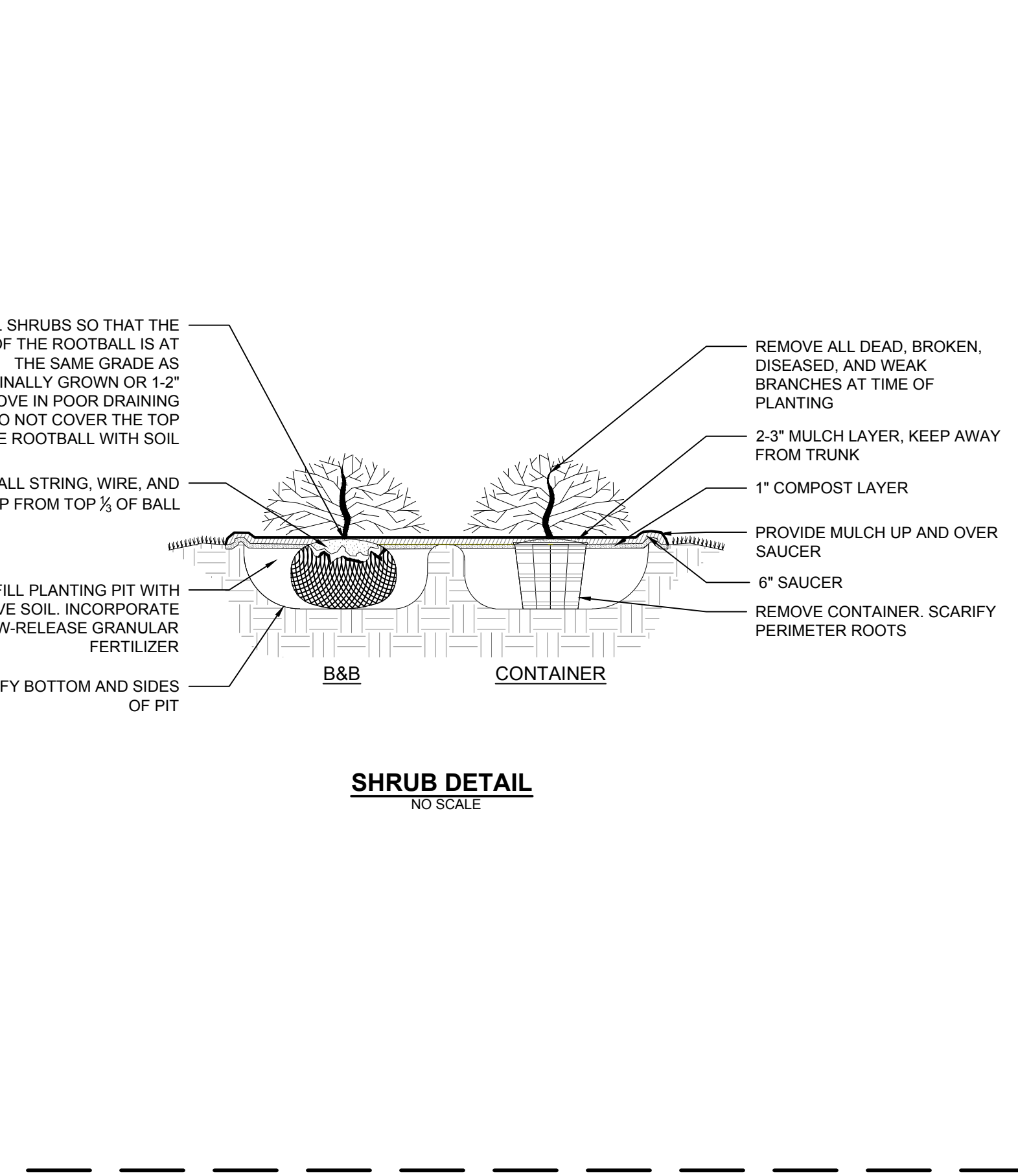
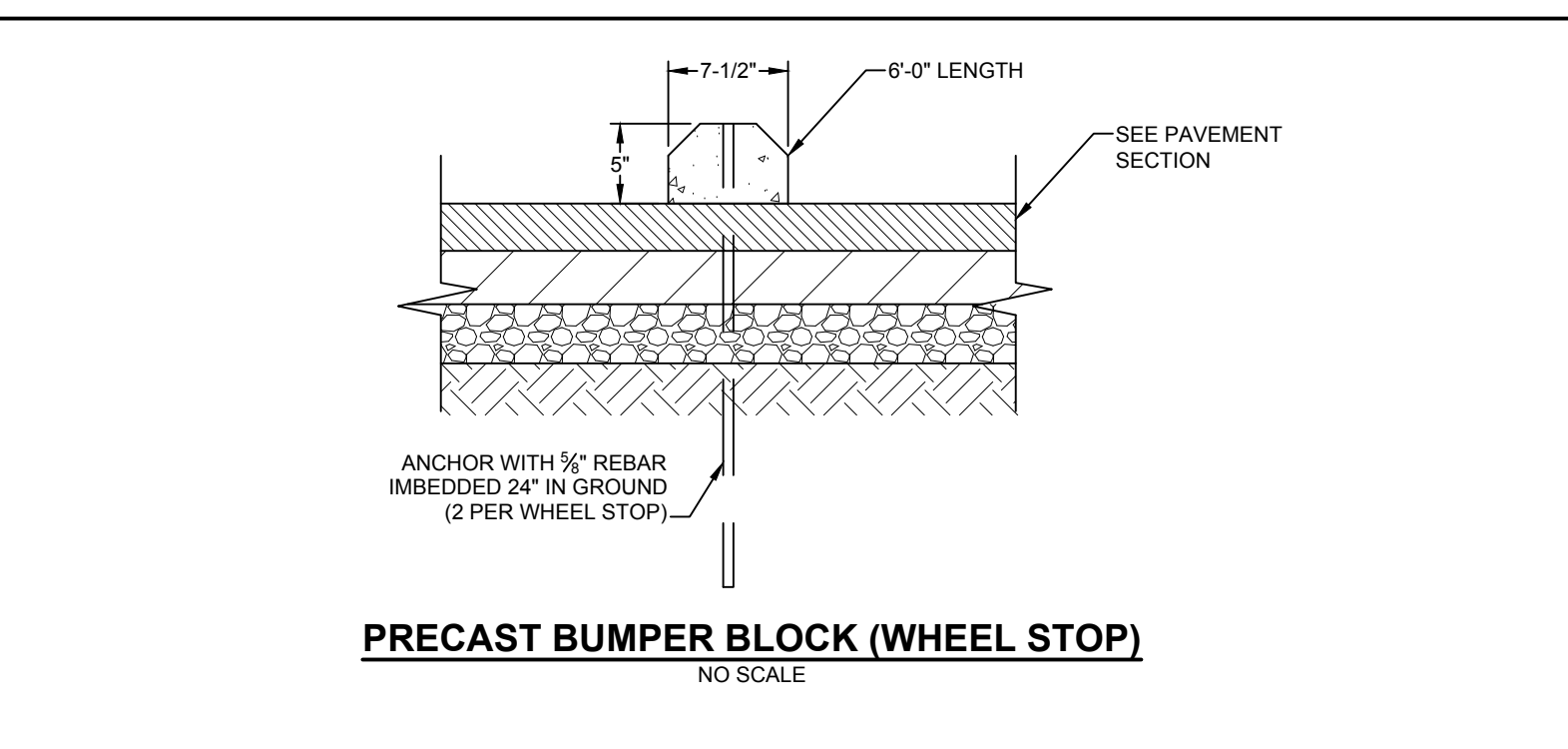
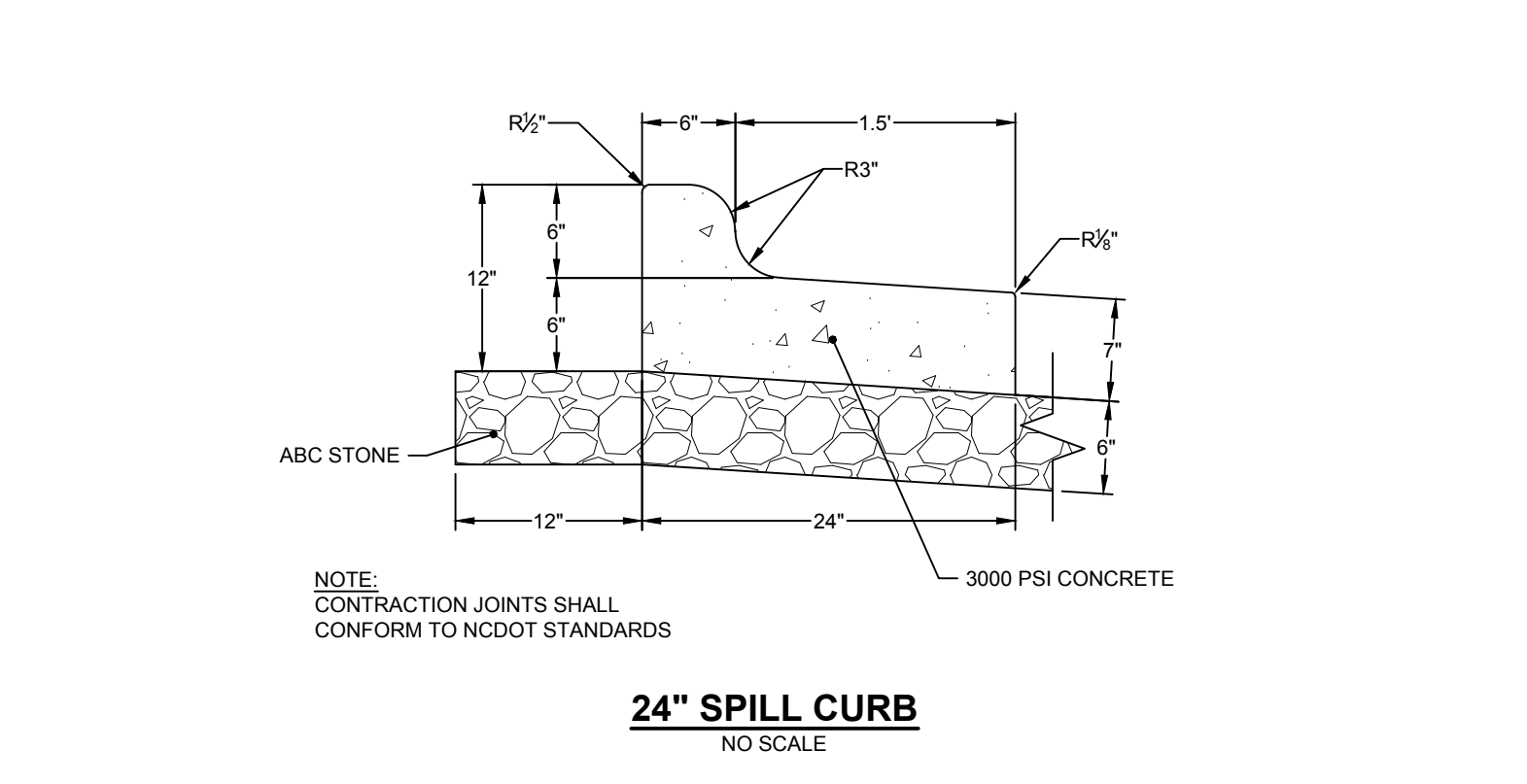
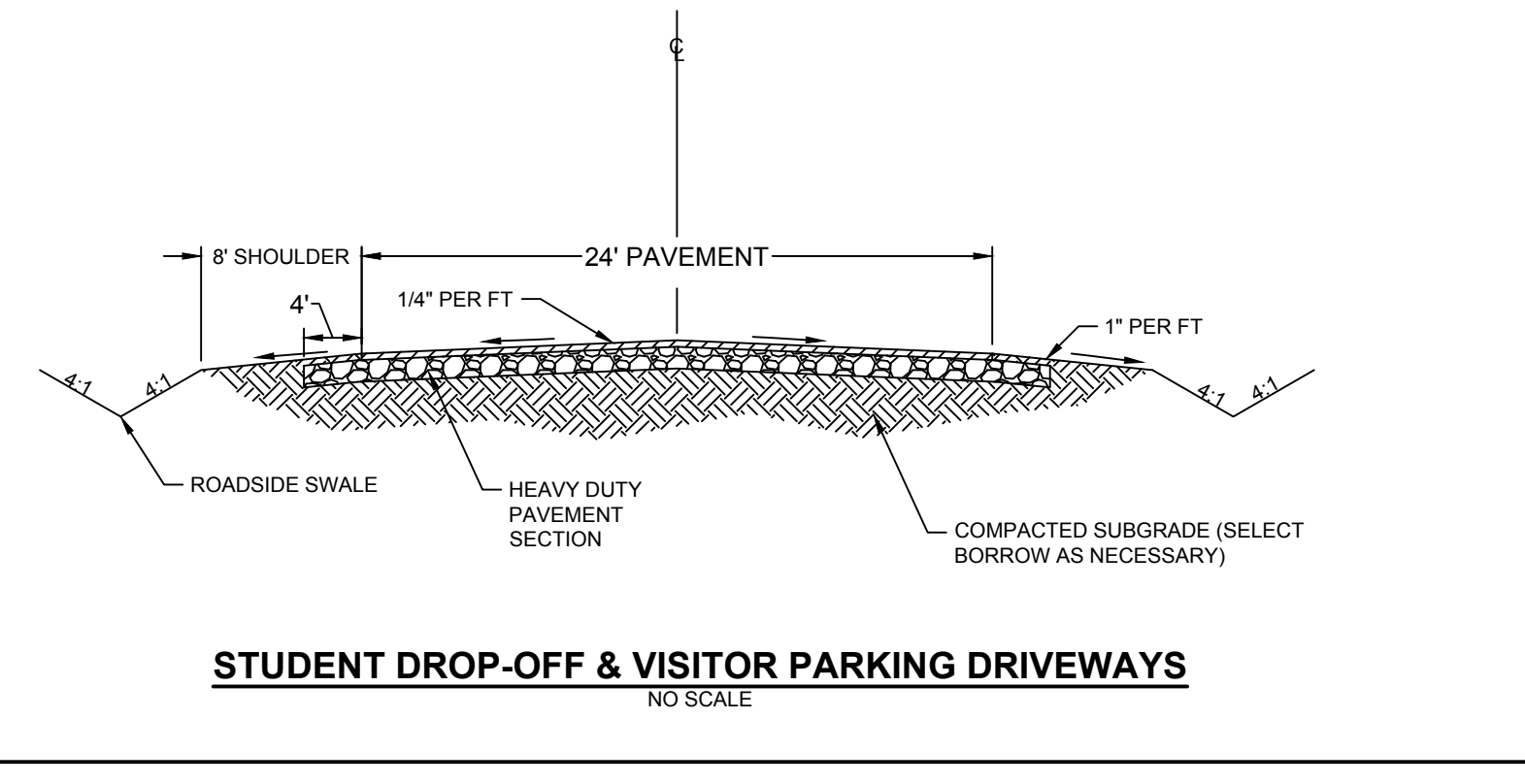
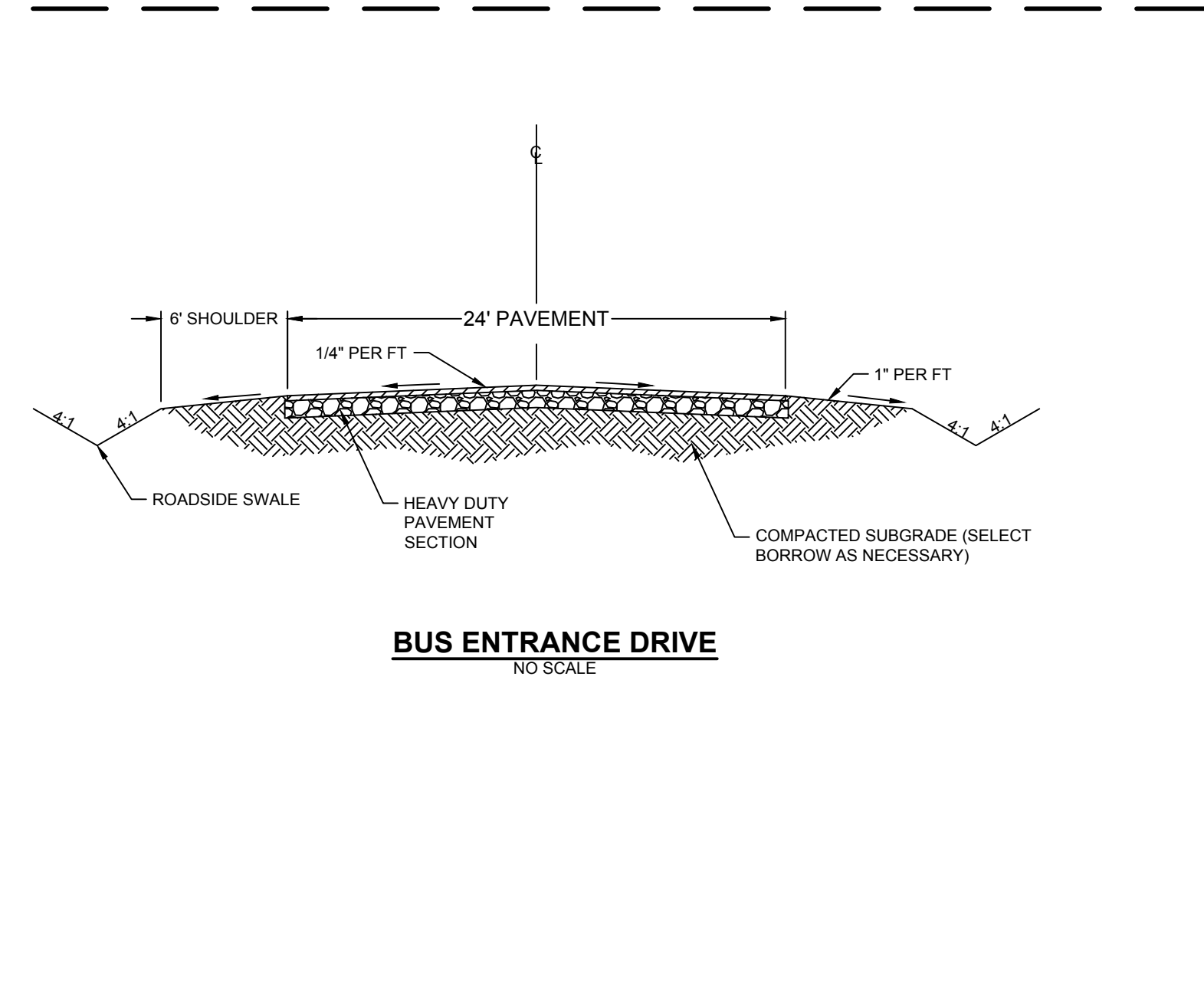
**SEE SHEET C5.1
FOR SEPTIC
SYSTEM DESIGN
INFORMATION**

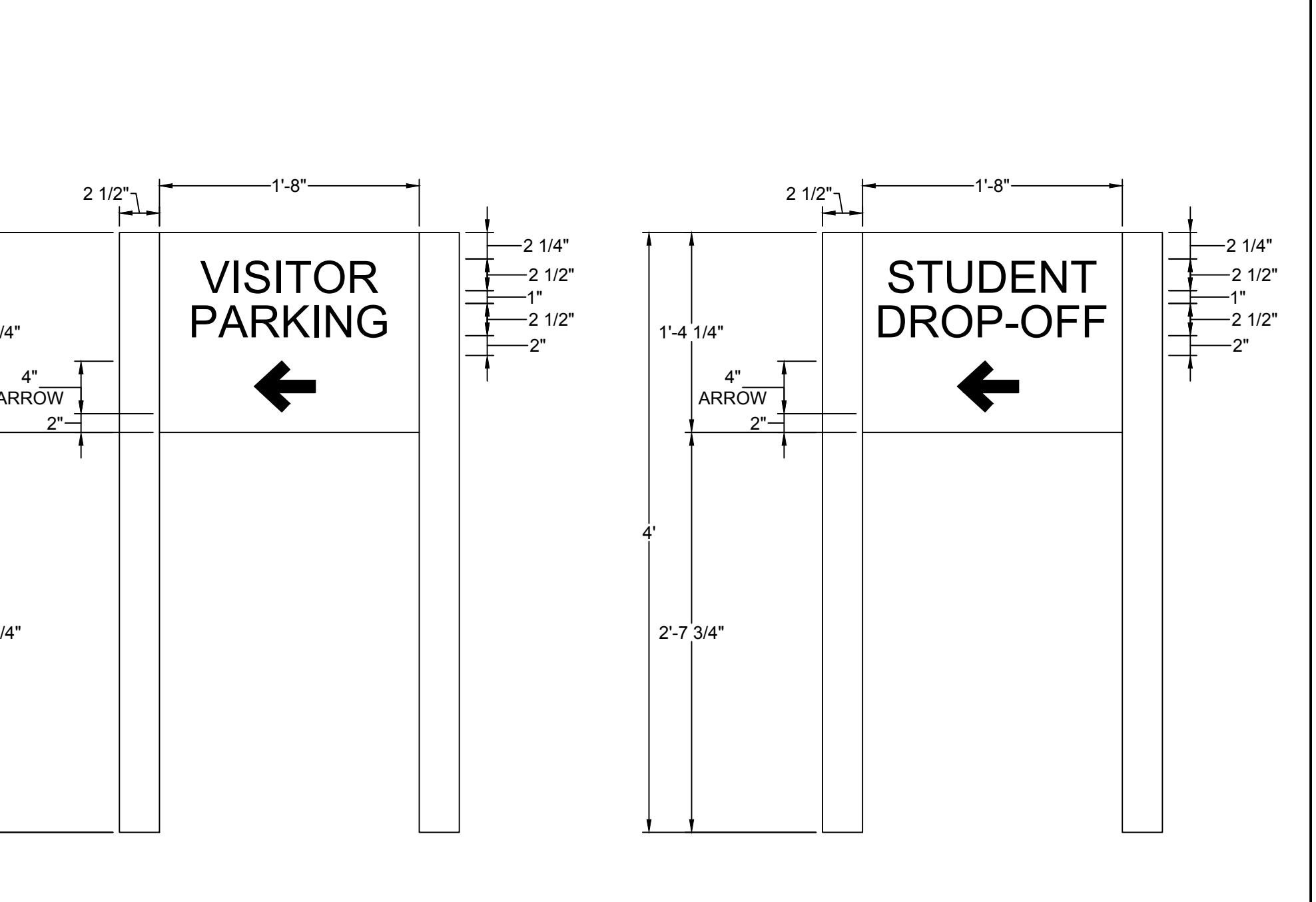
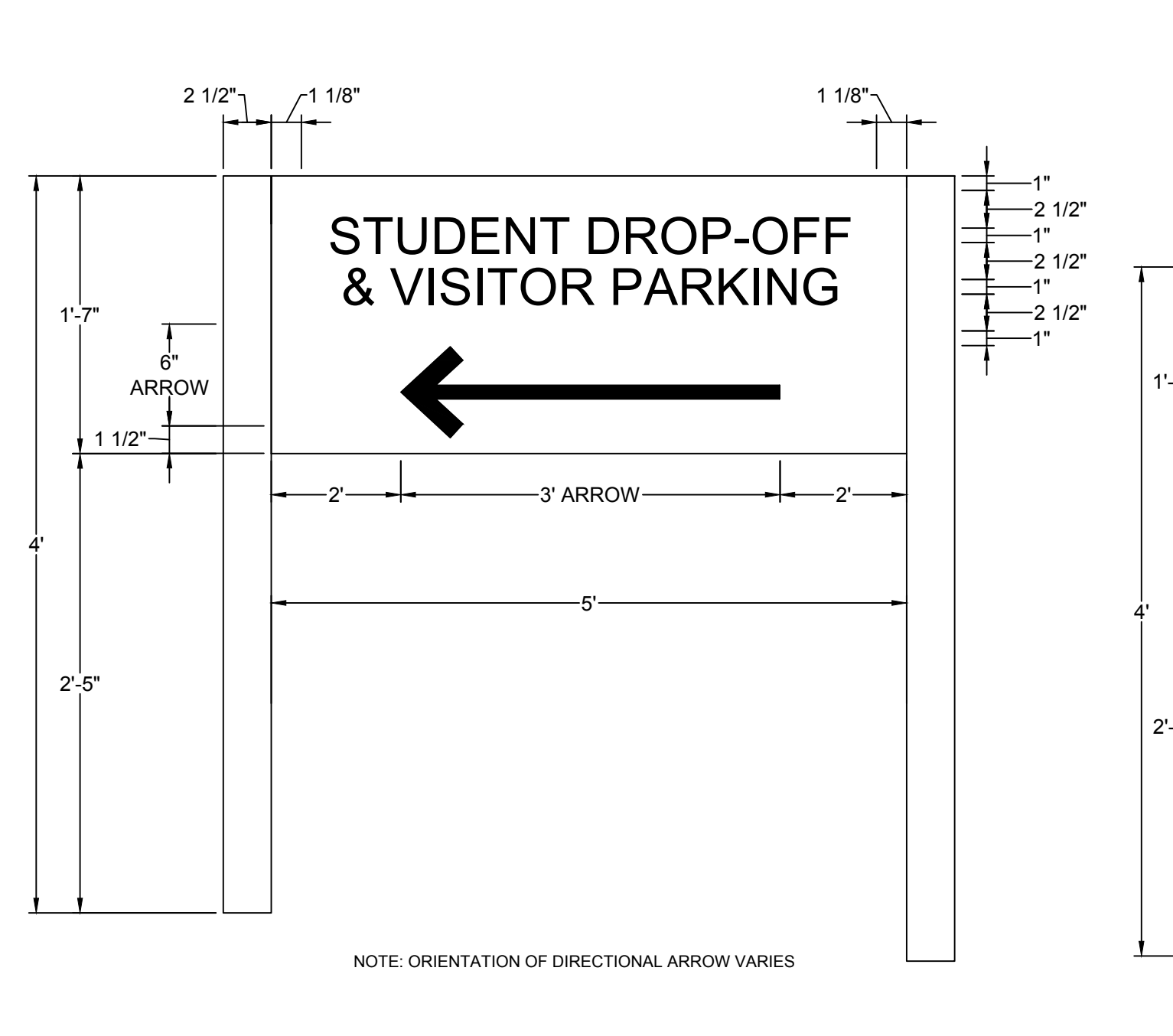
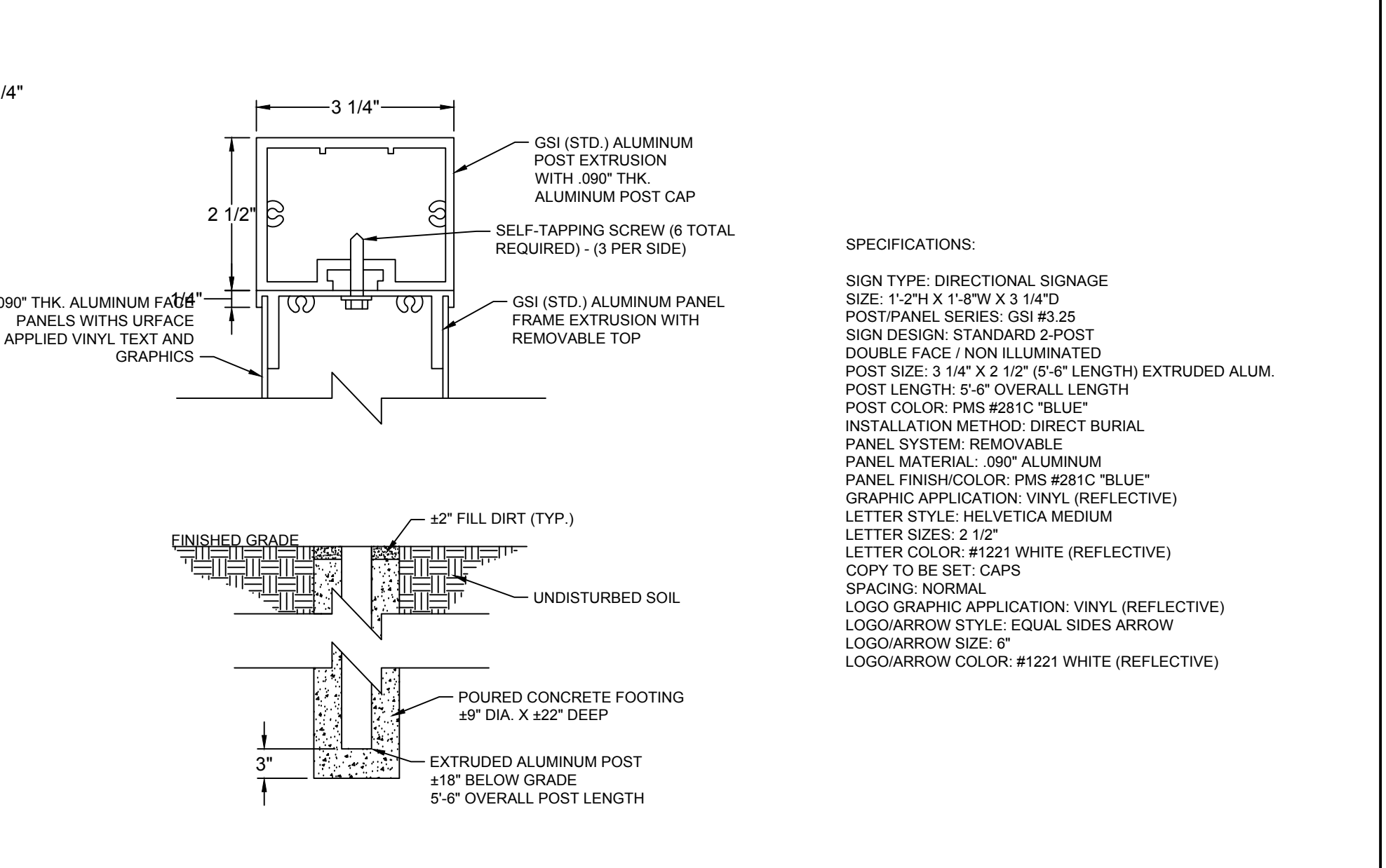
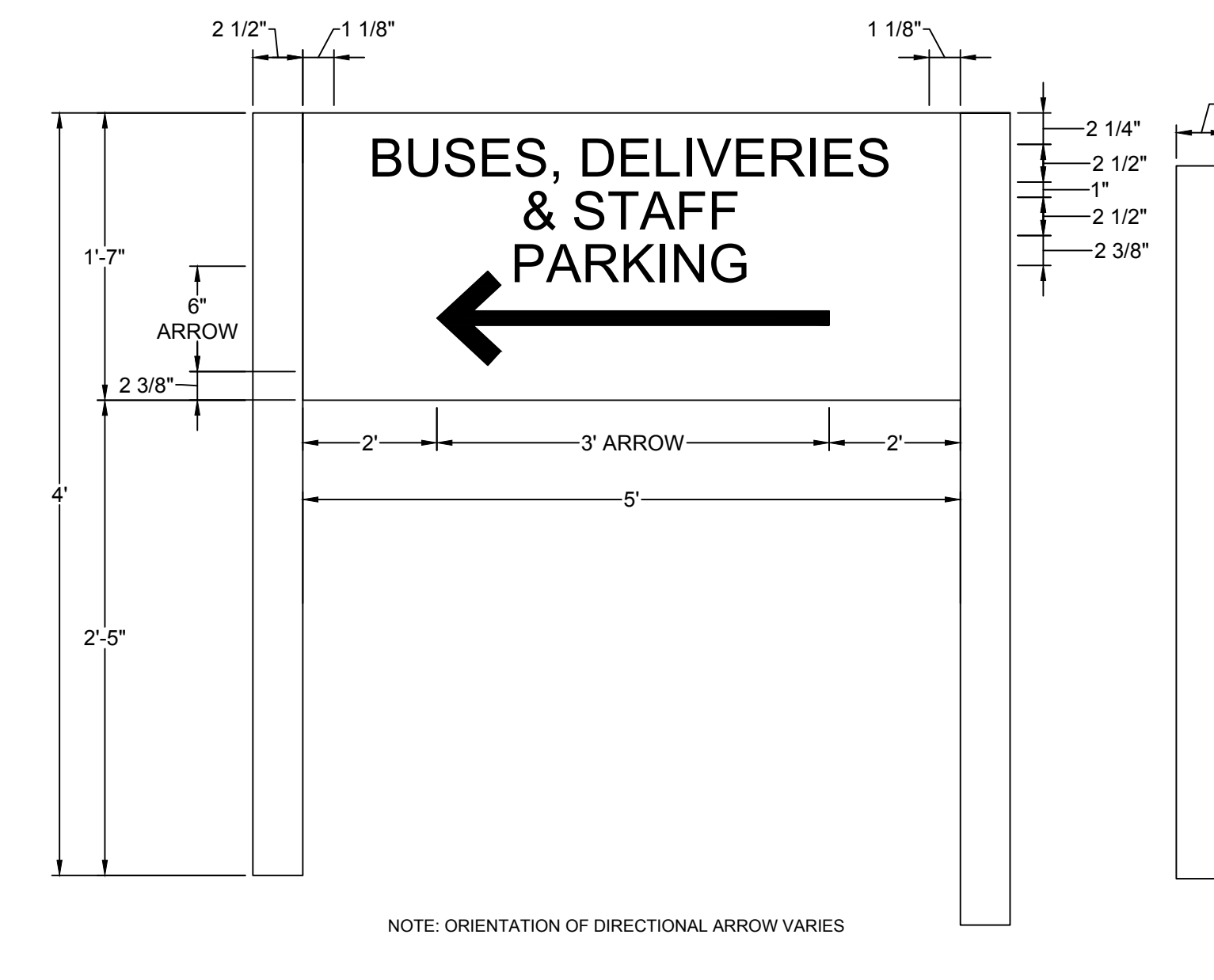
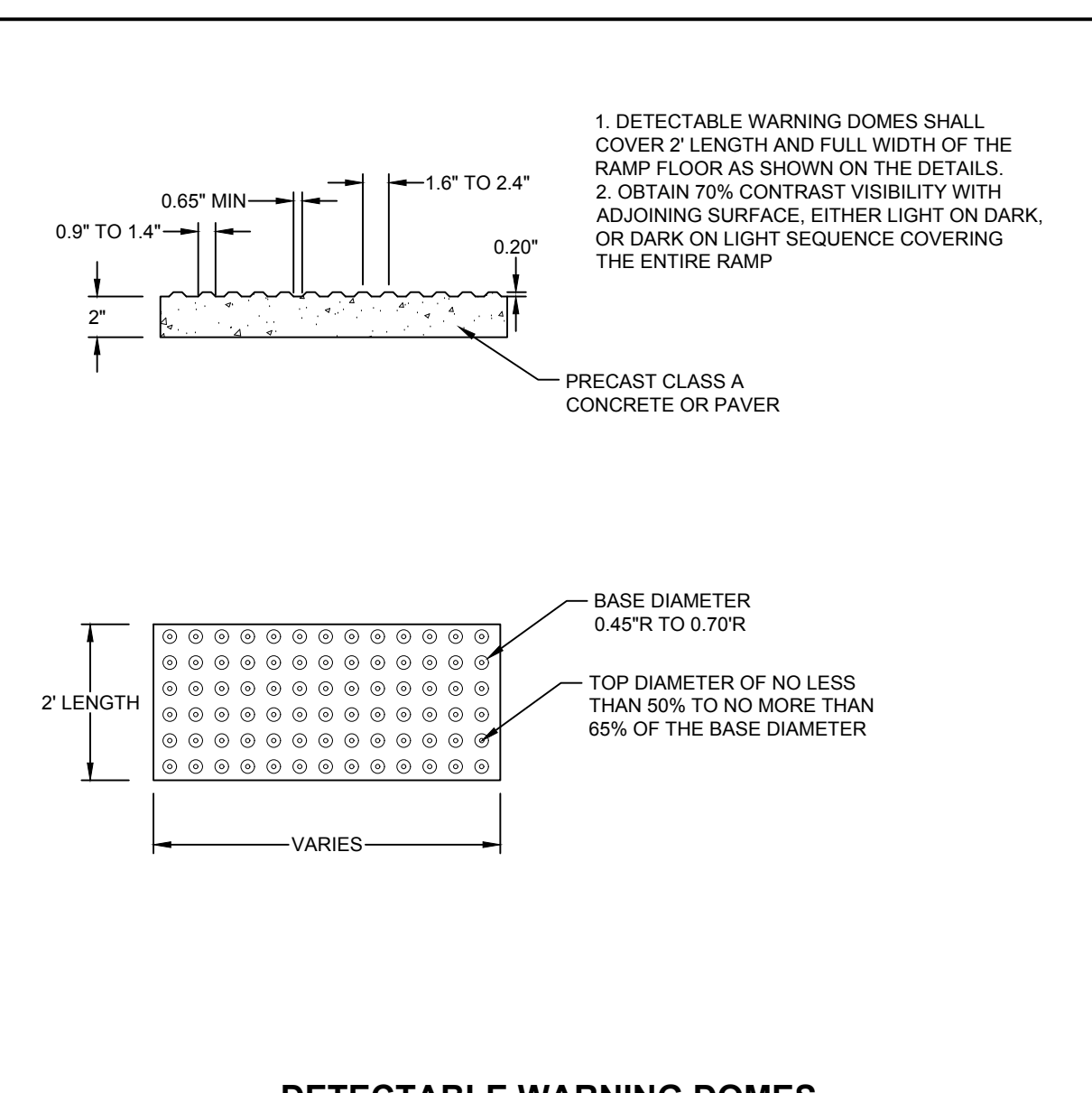
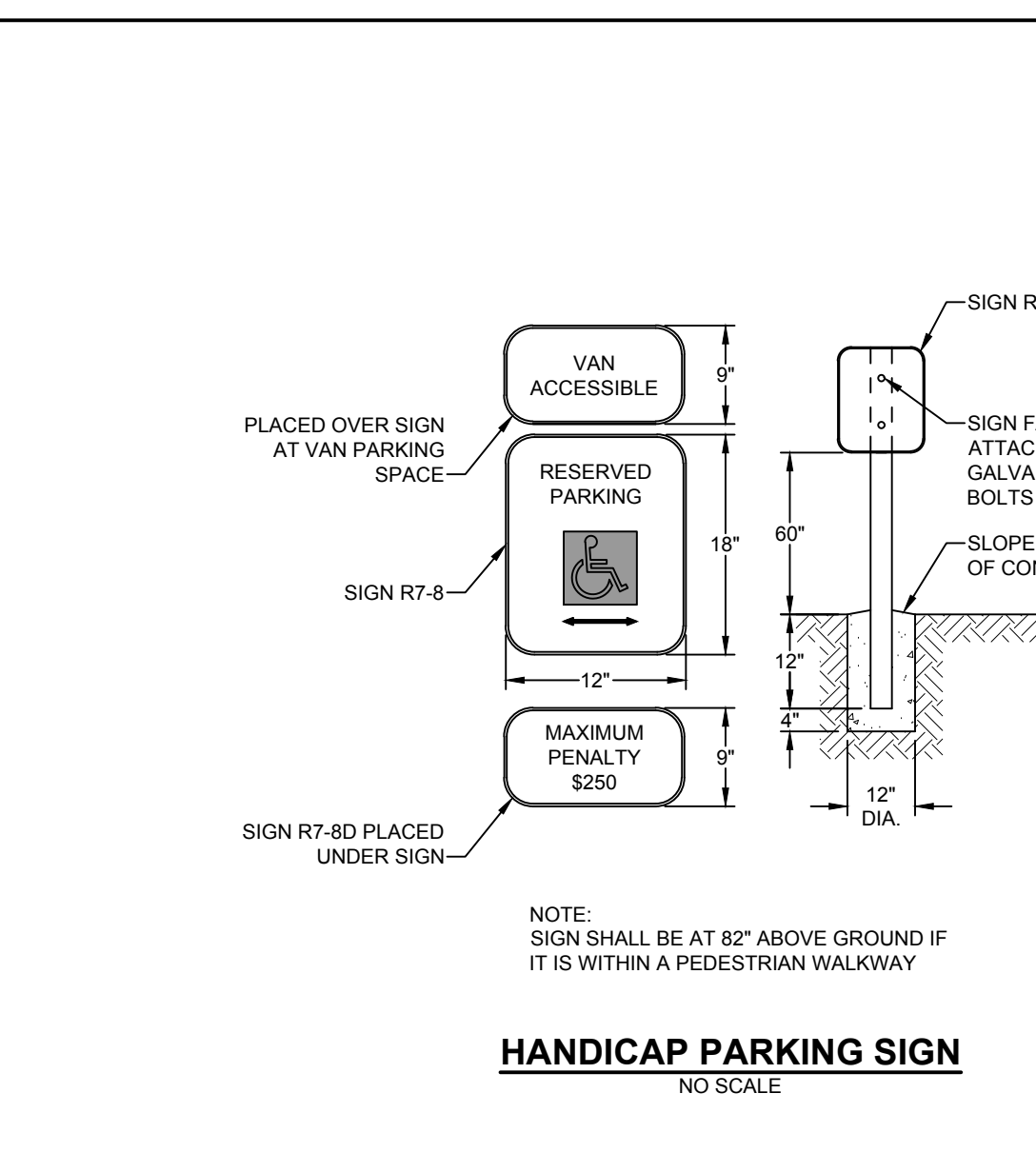
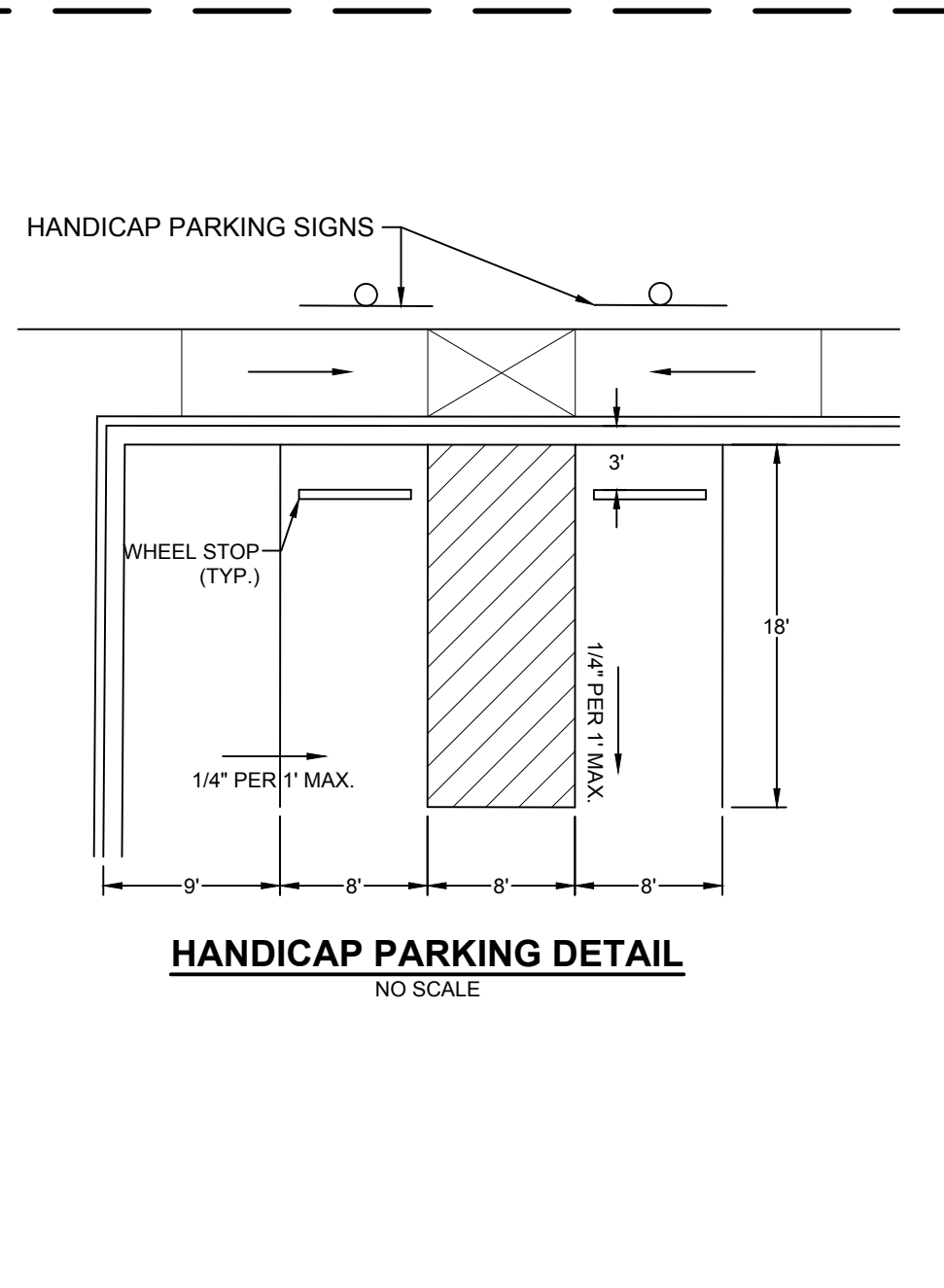
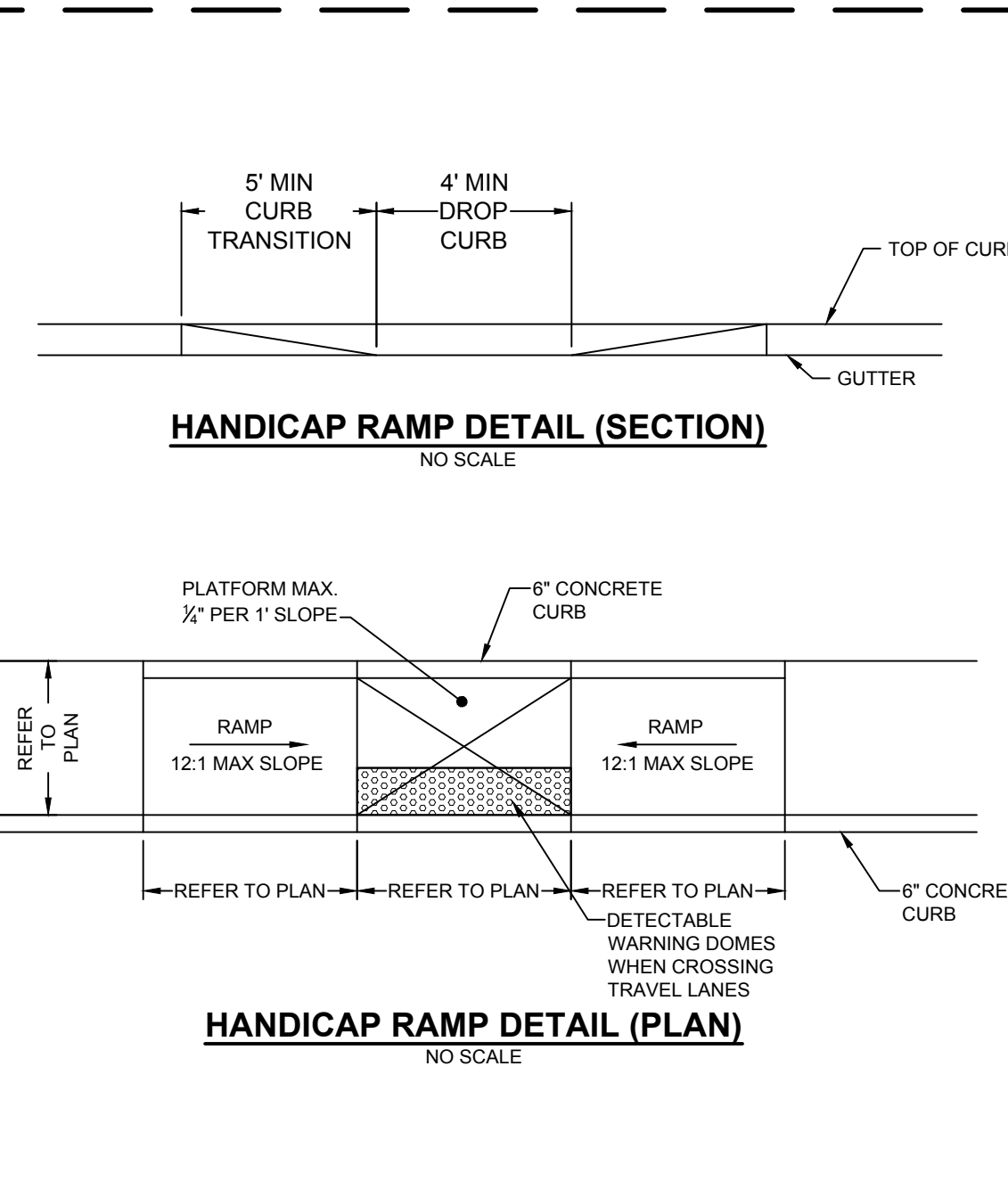
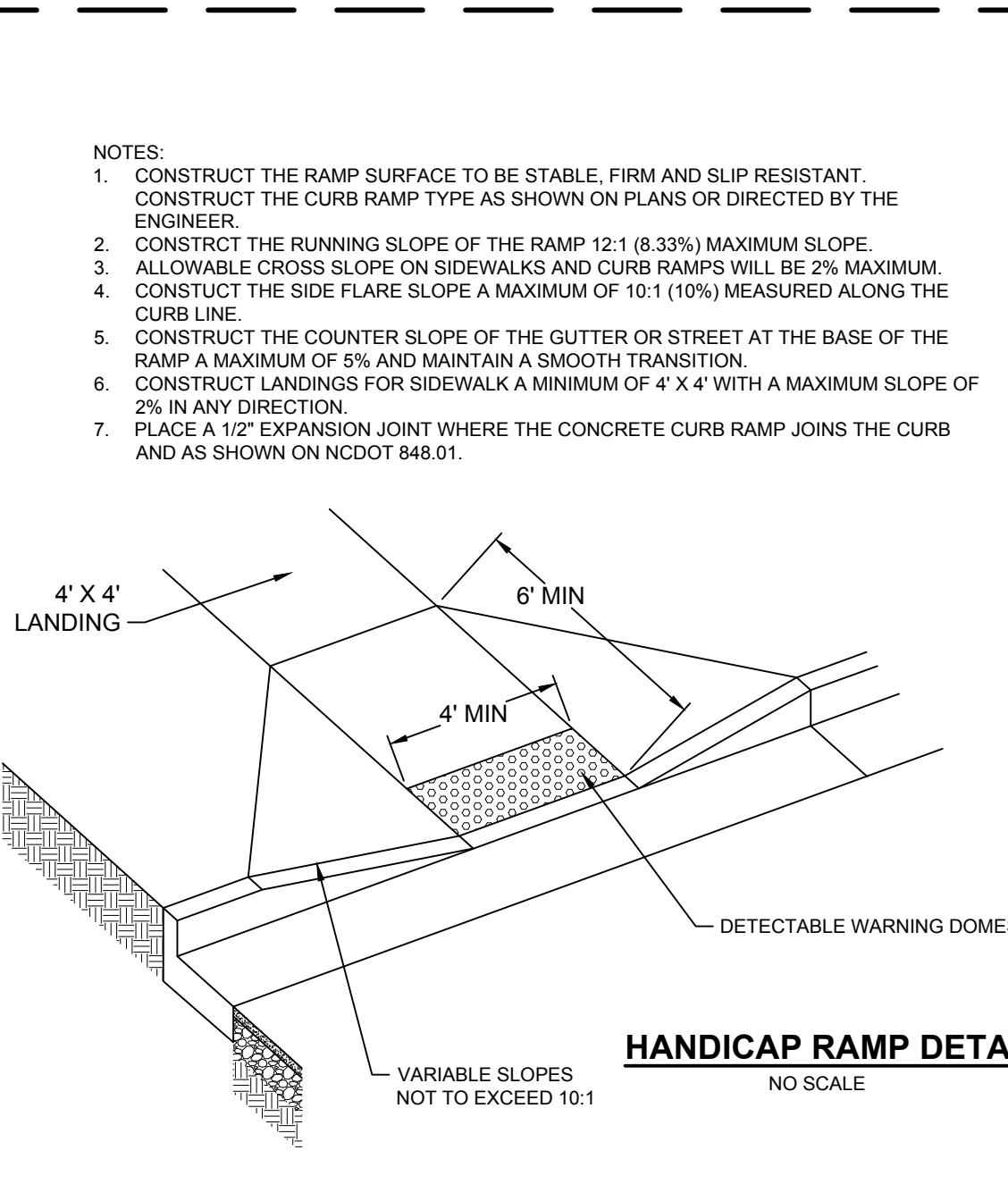
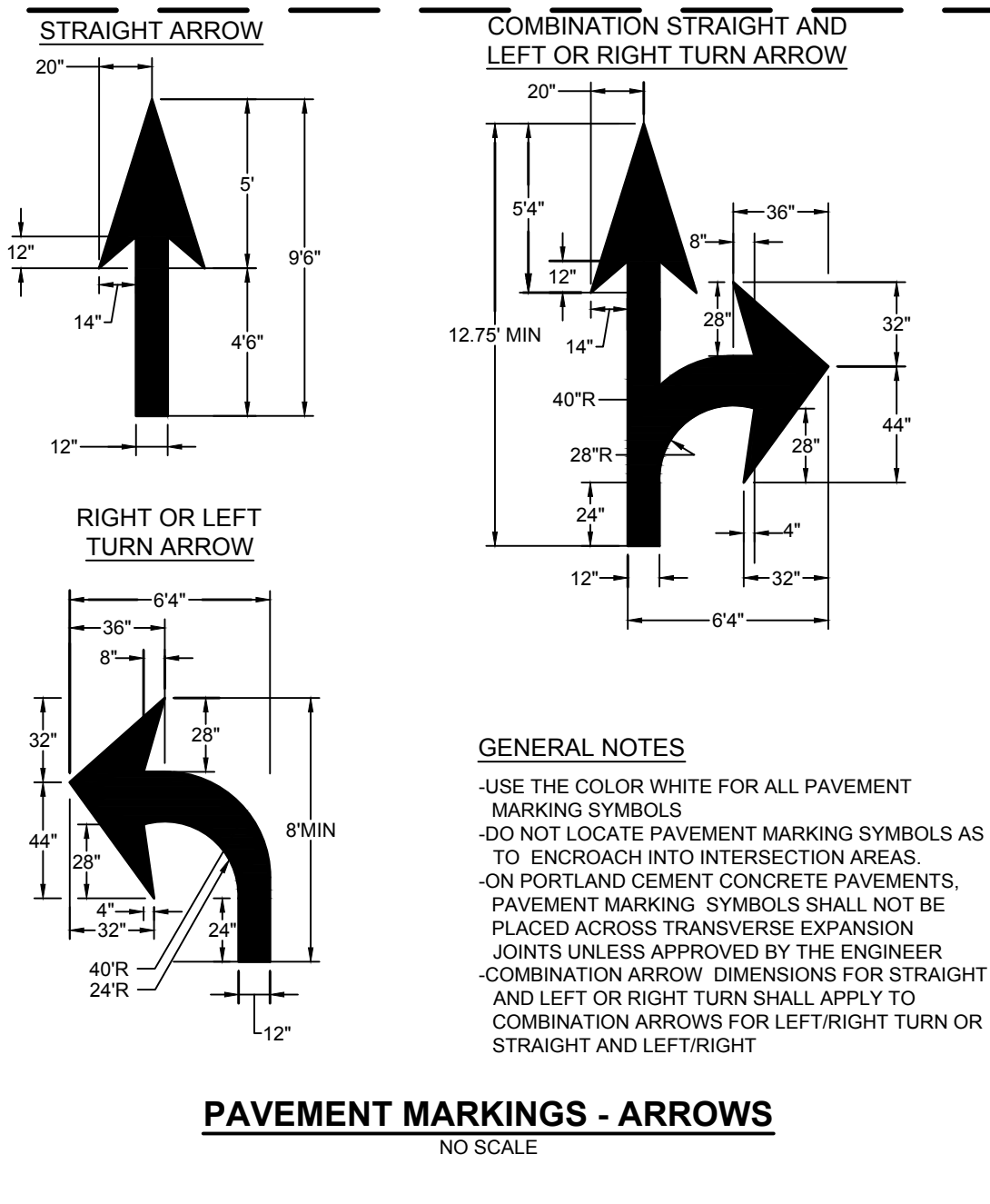
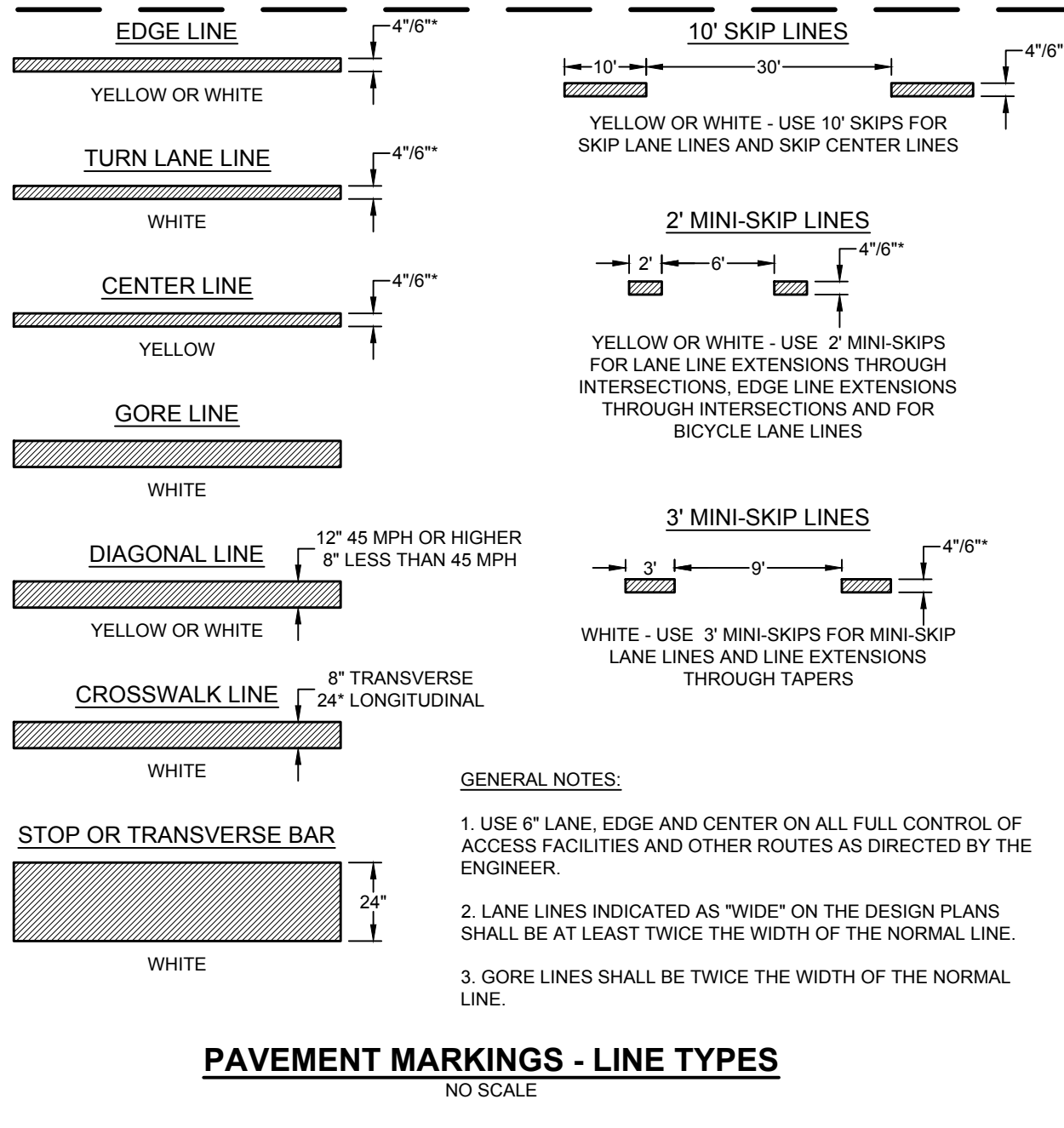
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0 60' 120'

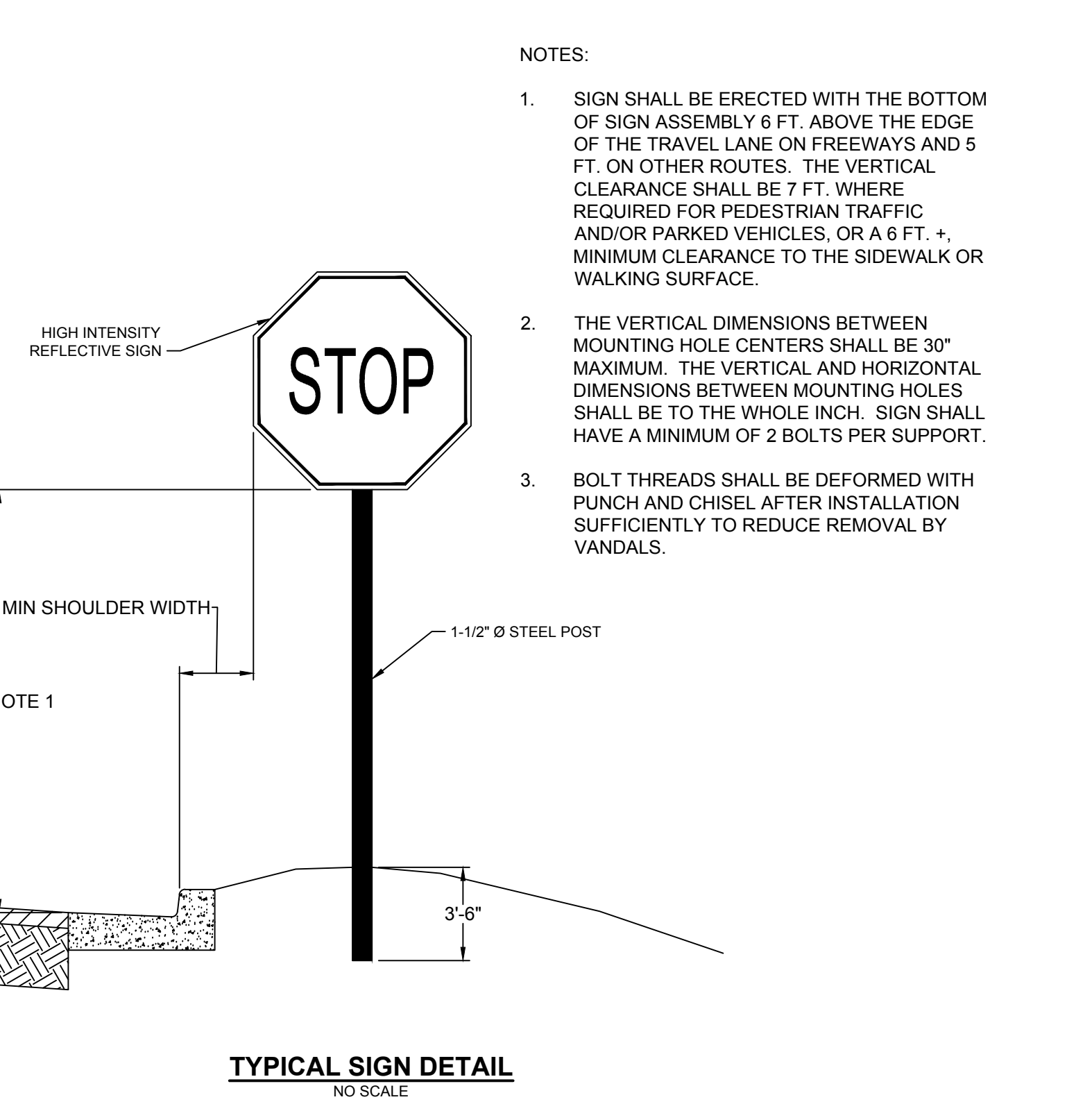
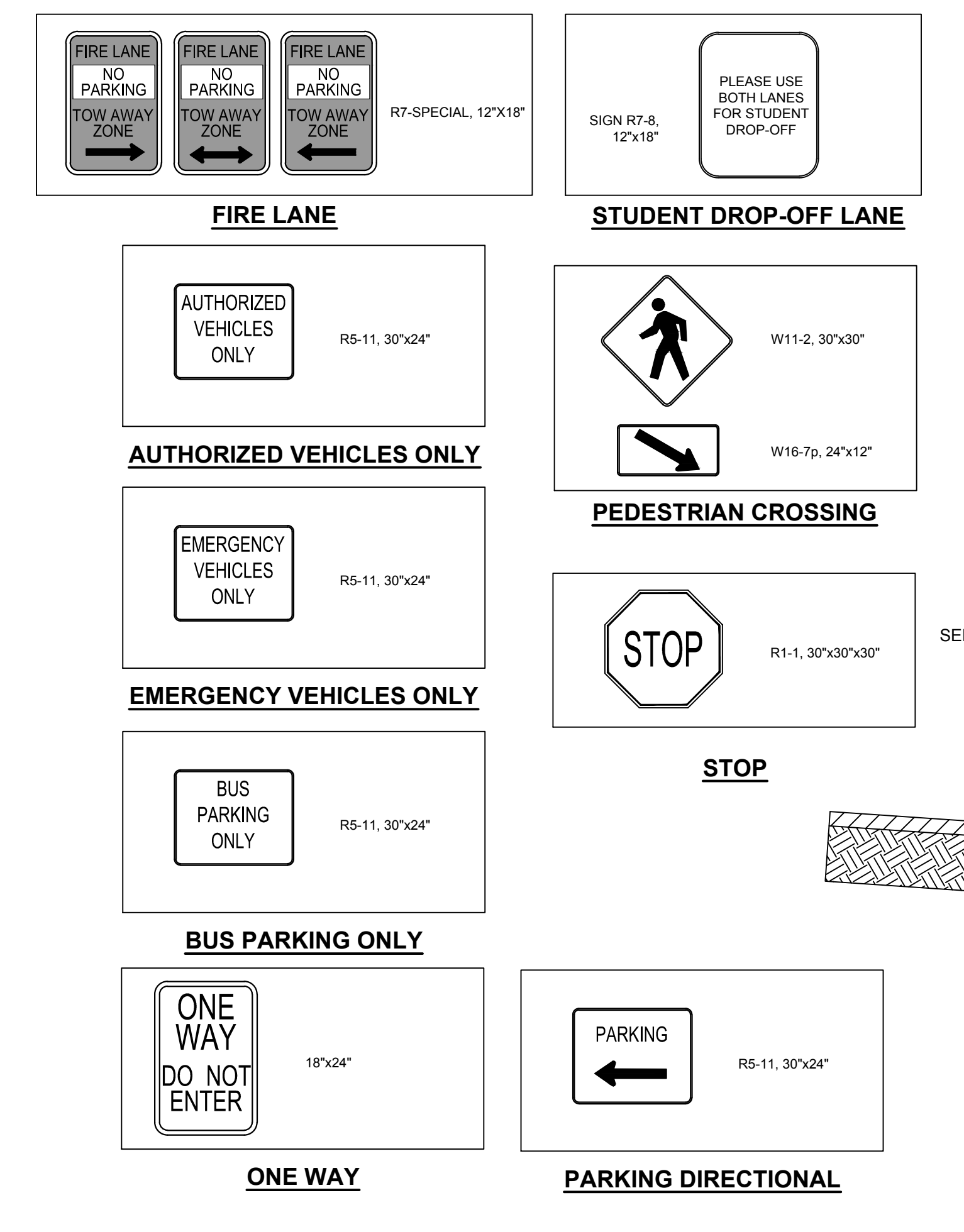






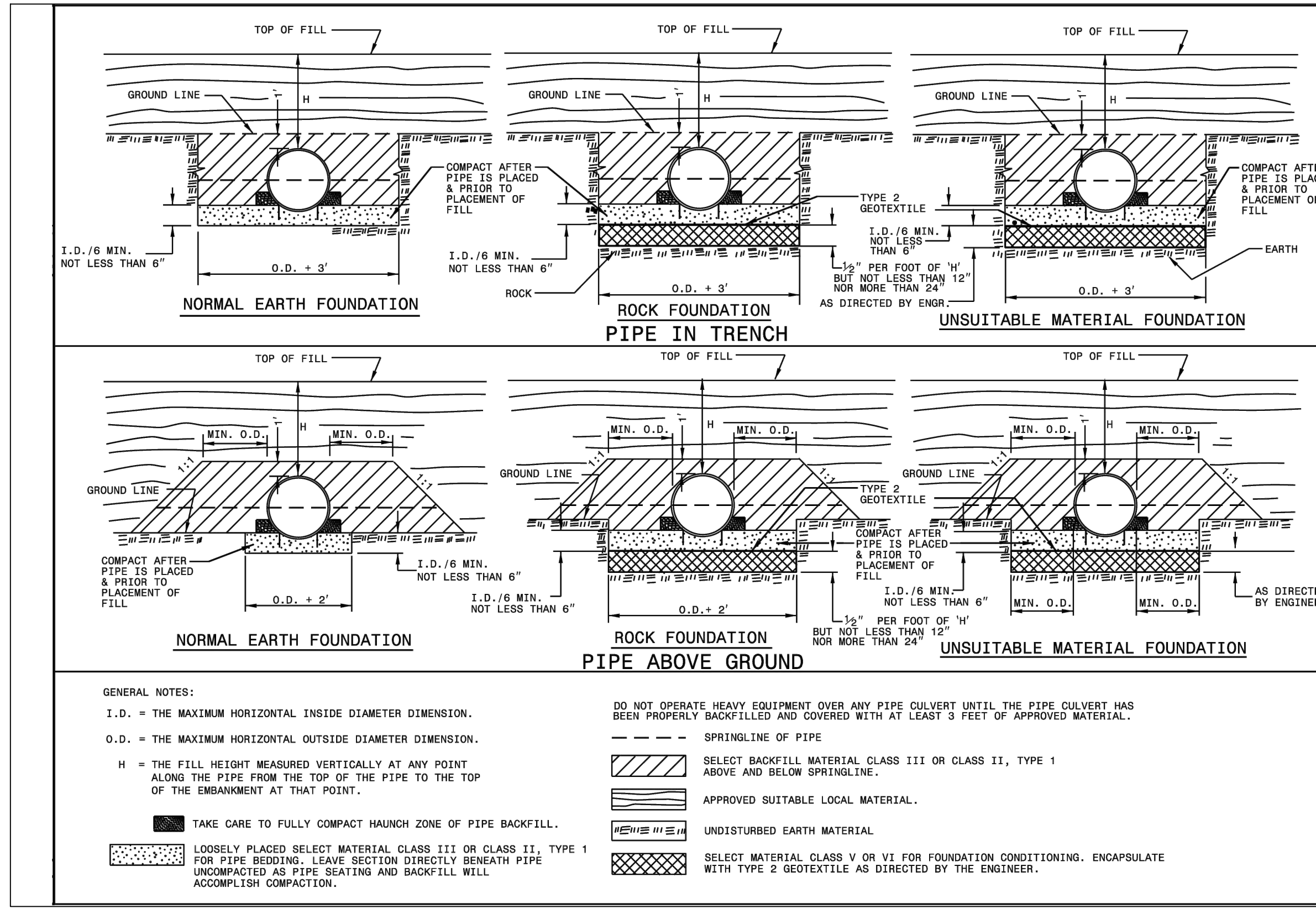


DIRECTIONAL SIGNAGE DETAILS
NO SCALE



- NOTES:**
- SIGN SHALL BE ERRECTED WITH THE BOTTOM OF SIGN ASSEMBLY 6 FT. ABOVE THE EDGE OF THE TRAVEL LANE ON FREEWAYS AND 5 FT. ON OTHER ROUTES. THE VERTICAL CLEARANCE SHALL BE 7 FT. WHERE REQUIRED FOR PEDESTRIAN TRAFFIC AND/OR PARKED VEHICLES, OR A 6 FT. + MINIMUM CLEARANCE TO THE SIDEWALK OR WALKING SURFACE.
 - THE VERTICAL DIMENSIONS BETWEEN MOUNTING HOLE CENTERS SHALL BE 30" MAXIMUM. THE VERTICAL AND HORIZONTAL DIMENSIONS BETWEEN MOUNTING HOLES SHALL BE TO THE WHOLE INCH. SIGN SHALL HAVE A MINIMUM OF 2 BOLTS PER SUPPORT.
 - BOLT THREADS SHALL BE DEFORMED WITH PUNCH AND CHISEL AFTER INSTALLATION SUFFICIENTLY TO REDUCE REMOVAL BY VANDALS.

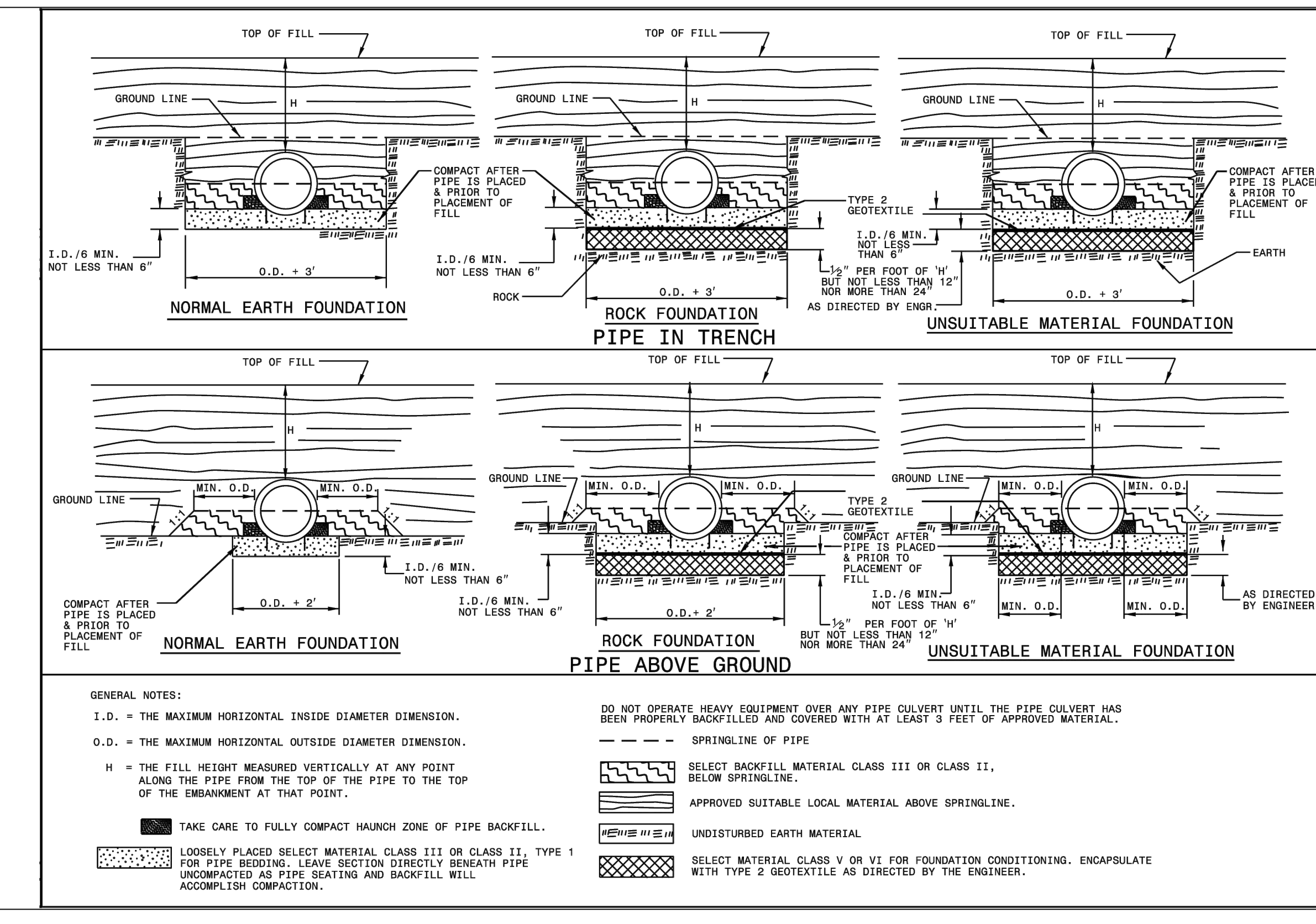
NO.	DATE	DESCRIPTION



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

ROADWAY STANDARD DRAWING FOR
METHOD OF PIPE INSTALLATION
FLEXIBLE PIPE

SHEET 1 OF 3
300.01



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

ROADWAY STANDARD DRAWING FOR
METHOD OF PIPE INSTALLATION
RIGID PIPE

SHEET 2 OF 3
300.01

FLEXIBLE PIPE

Round Corrugated Steel Pipe 2 2/3 x 1/2 corrugation **			
Diameter (inches)	Minimum cover (inches)	Maximum Height of Cover (feet)	
12	12	204	256
15	12	162	204
18	12	135	169
21	12	115	145
24	12	100	126
30	12	79	100
36	12	65	83
42	12	55	70
48	12	48	61
54	12	42	54
60	12	37	48
66	12	32	42
72	12	28	37
78	12	24	32
84	12	21	28

Round Corrugated Aluminum Pipe 2 2/3 x 1/2 corrugation **			
Diameter (inches)	Minimum cover (inches)	Maximum Height of Cover (feet)	
12	12	153	193
15	12	98	123
18	12	81	102
21	12	69	87
24	12	60	76
27	12	53	67
30	12	47	60
36	12	36	46
42	12	30	38
48	12	26	33
54	12	23	29
60	12	20	26
66	12	18	23
72	12	16	20
78	12	14	18
84	12	13	16

REFER TO THE FOLLOWING FOR PIPE SPECIFICATIONS

CSP - AASHTO M36
CAAP - AASHTO M196
HDPE - AASHTO M234
PVC - ASTM F949 or AASHTO M304

NOTES: FILL HEIGHTS SHOWN WERE CALCULATED USING AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

** FILL HEIGHT IS MEASURED FROM THE TOP OF THE PIPE TO THE BOTTOM OF THE PAVEMENT STRUCTURE

RIGID PIPE

REFER TO THE FOLLOWING FOR PIPE SPECIFICATIONS

RCP - AASHTO M170

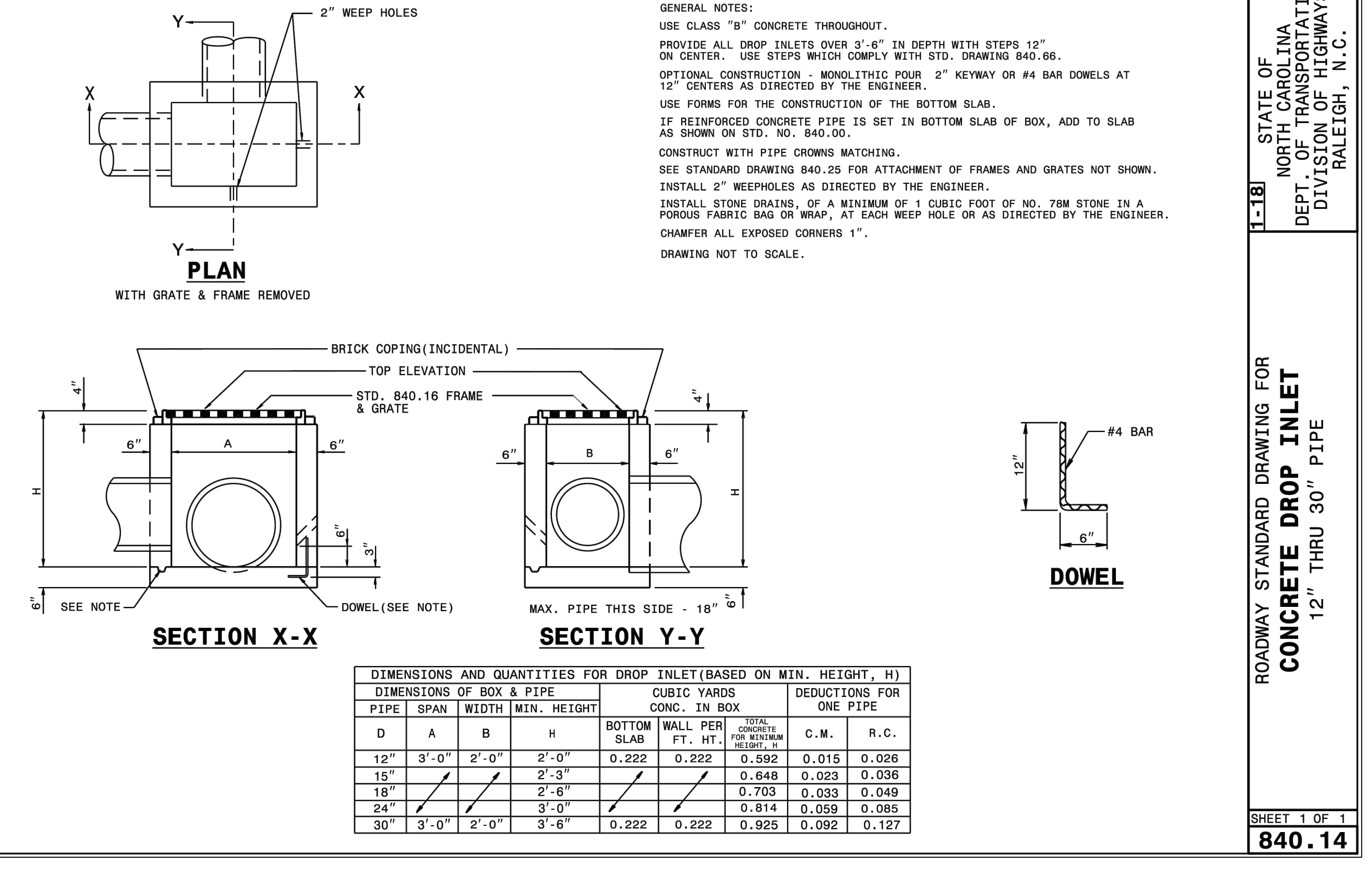
NOTES: FILL HEIGHTS SHOWN WERE CALCULATED USING AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

** FILL HEIGHT IS MEASURED FROM THE TOP OF THE PIPE TO THE BOTTOM OF THE PAVEMENT STRUCTURE

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

ROADWAY STANDARD DRAWING FOR
METHOD OF PIPE INSTALLATION
FILL HEIGHT TABLES

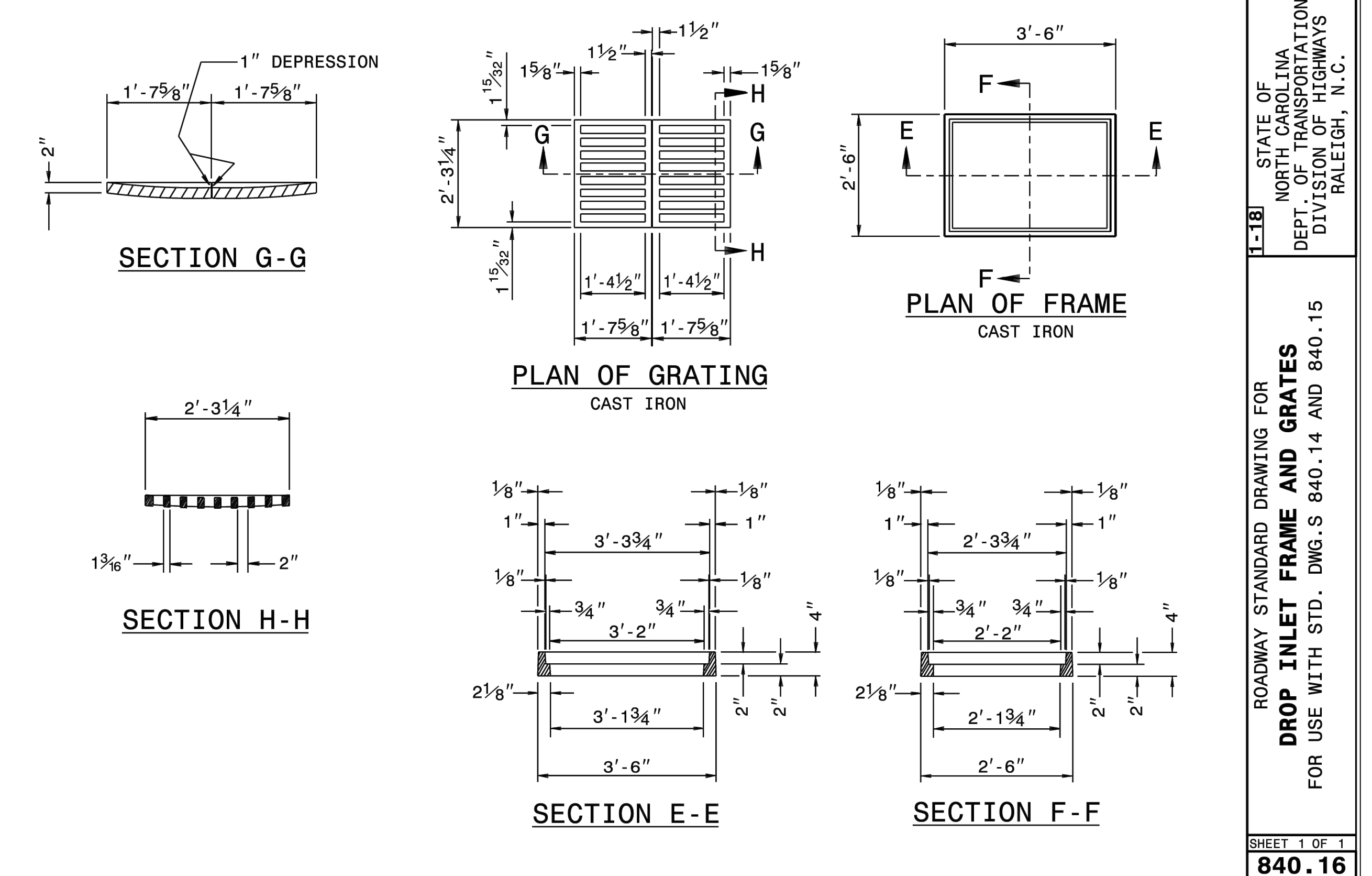
SHEET 3 OF 3
300.01



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

ROADWAY STANDARD DRAWING FOR
CONCRETE DROP INLET
12" THRU 30" PIPE

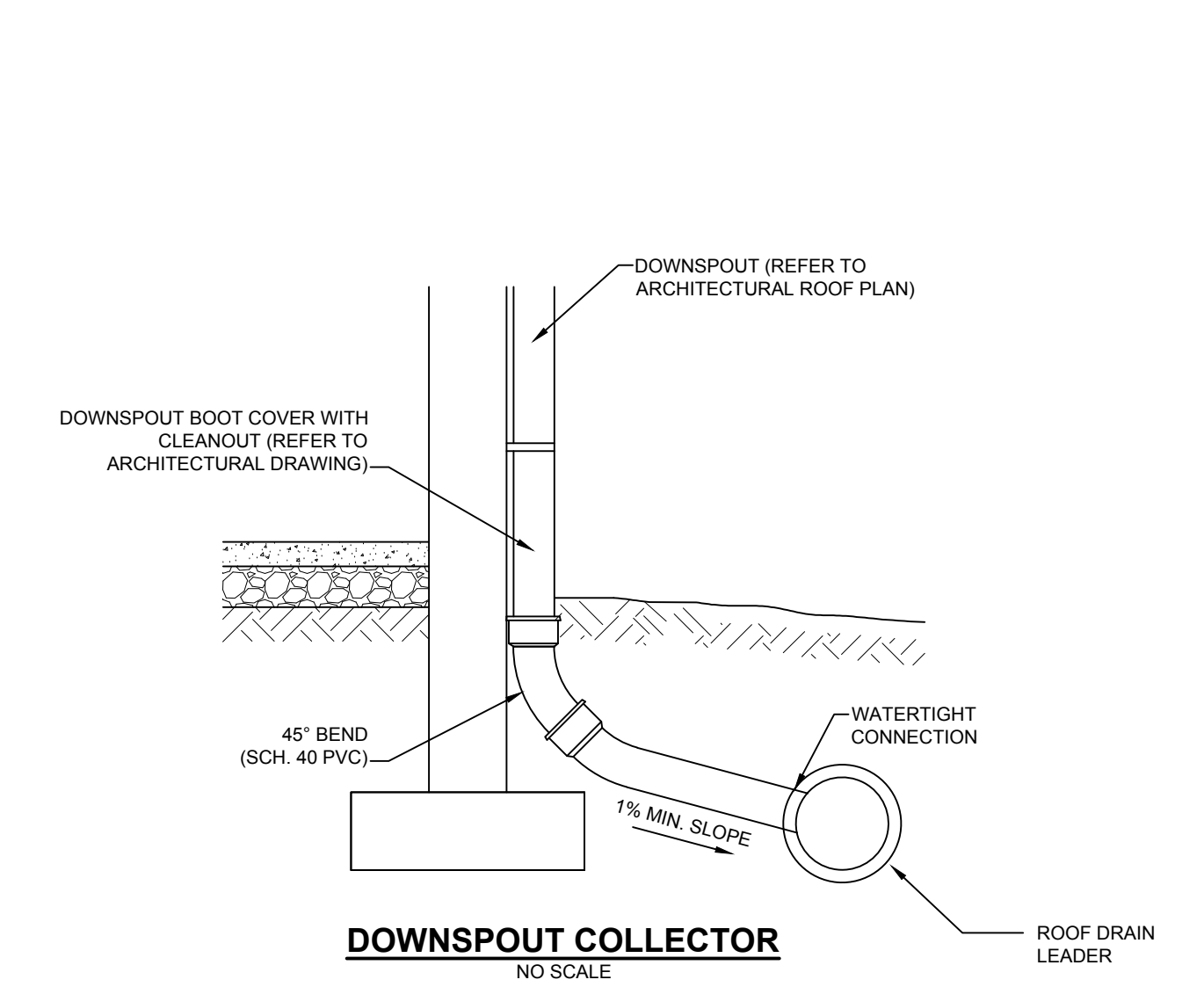
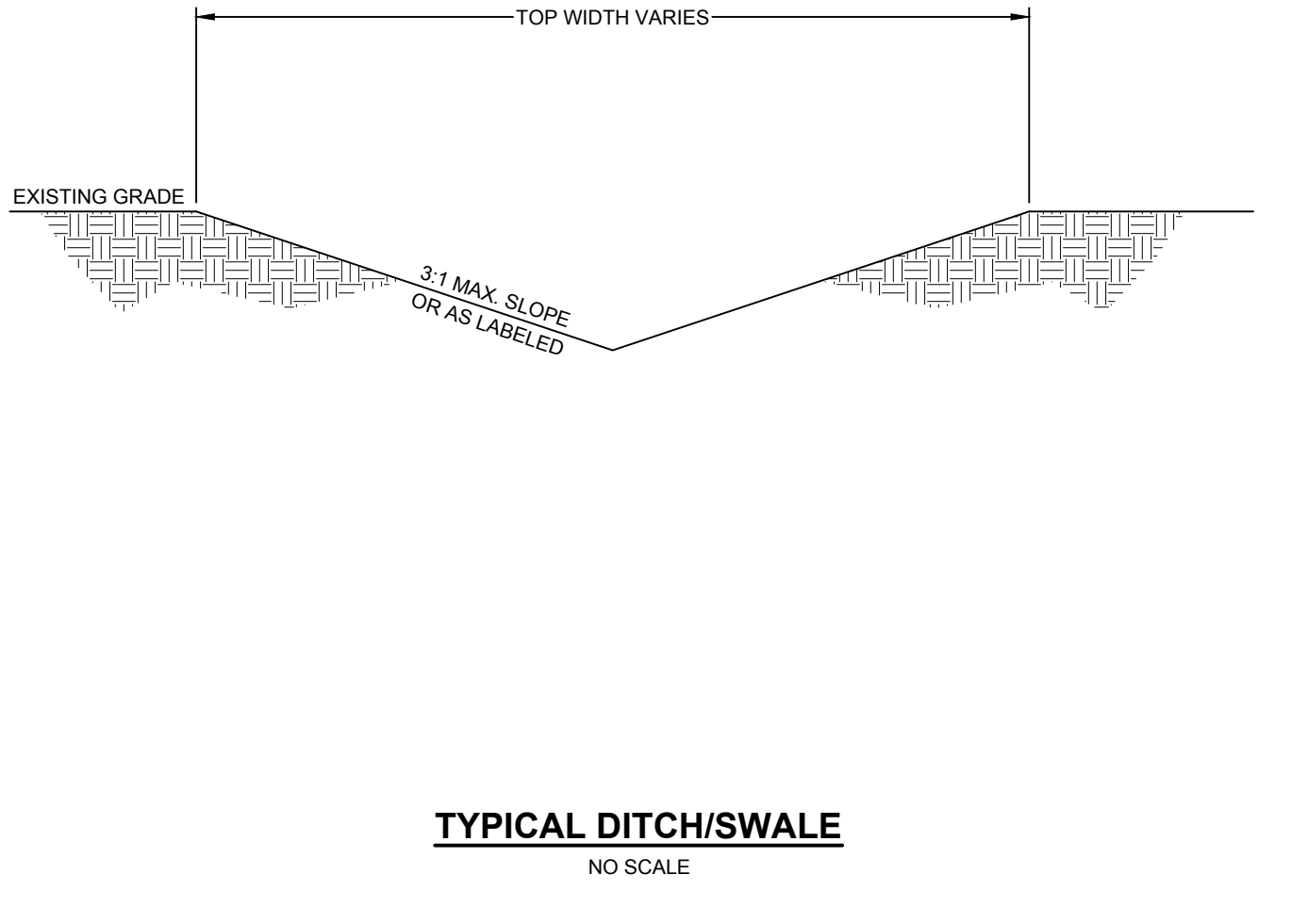
SHEET 1 OF 1
840.14



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

ROADWAY STANDARD DRAWING FOR
DROP INLET FRAME AND GRATES
FOR USE WITH STD. DWG. S 840.14 AND 840.15

SHEET 1 OF 1
840.16



boomerang DESIGN
rethink, repurpose, results

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Raleigh, NC 27609
919/751-6400

LEWINGTON
1070 S. Lake Dr., Suite 1
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903/551-0007

SUSSEX DEVELOPMENT CORPORATION

PROGRESS PRINT
MAY 24, 2023
NOT FOR CONSTRUCTION

TULLS CREEK
ELEMENTARY
SCHOOL
PROJECT TITLE

PRELIMINARY
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3. DO NOT SCALE OFF DIMENSIONS.

REVISIONS

NO.	DATE	DESCRIPTION

70% CD
PROJECT PHASE
2207
BOOMERANG DESIGN PROJECT NUMBER
05.24.2023
DRAWING RELEASE DATE

GRADING
DETAILS
SHEET TITLE
C6.2

GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT

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

SECTION E: GROUND STABILIZATION	
Site Area Description	Required Ground Stabilization Timeframes
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7 None
(b) High Quality Water (HWQ) Zones	7 None
(c) Slopes steeper than 3:1	7 If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed.
(d) Slopes 3:1 to 4:1	14 7 days for slopes greater than 50' in length and with slopes steeper than 4:1 7 days for perimeter dikes, swales, ditches, perimeter slopes and HWQ Zones 10 days for Falls Lake Watershed
(e) Areas with slopes flatter than 4:1	14 7 days for Falls Lake Watershed

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

GROUND STABILIZATION SPECIFICATION	
Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the techniques in the table below:	
Temporary Stabilization	Permanent Stabilization
<ul style="list-style-type: none"> Temporary grass seed covered with straw or other mulches and bedfines Hydroseeding Roll-on erosion control products with or without temporary grass seed Appropriately applied straw or other mulch Plastic sheeting 	<ul style="list-style-type: none"> Permanent grass seed covered with straw or other mulches and bedfines Geotextile fabrics such as permanent soil reinforcement matting Hydroseeding Shrubs or other permanent plantings covered with mulch Uniform and evenly distributed ground cover sufficient to restrain erosion Structural methods such as concrete, asphalt or retaining walls Roll-on erosion control products with grass seed

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

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

EQUIPMENT AND VEHICLE MAINTENANCE

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

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

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

PAINT AND OTHER LIQUID WASTE

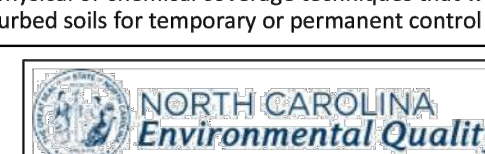
- Do not dump paint and other liquid waste into storm drains, streams or wetlands.
- Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Contain liquid wastes in a controlled area.
- Containment must be labeled,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

PORTABLE TOILETS

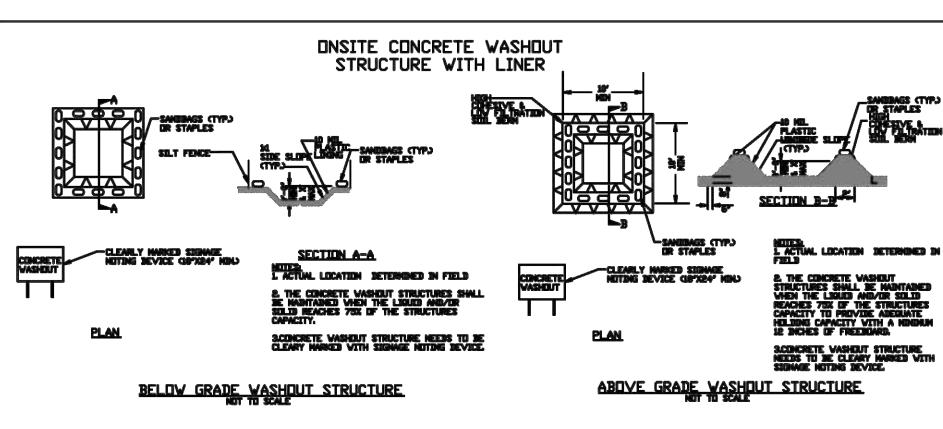
- Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide the location of portable toilet behind sill fence or place on a gravel pad and surround with sand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

EARTHEN STOCKPILE MAINTENANCE

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



NCG01 GROUND STABILIZATION AND MATERIALS HANDLING EFFECTIVE: 04/01/19



CONCRETE WASHOUTS

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

HERBICIDES, PESTICIDES AND RODENTICIDES

- Store and apply herbicides, pesticides and rodenticides in accordance with label and sign an inspection report that lists each EESC measure shown on the approved EESC plan. This documentation is required upon the initial installation of the EESC measures or if the EESC measures are modified after initial installation.
- Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately.
- Do not stockpile these materials onsite.

HAZARDOUS AND TOXIC WASTE

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

CONSTRUCTION SEQUENCING

- INSTALL TEMPORARY GRAVEL CONSTRUCTION ENTRANCE PADS. (SEE DETAIL)
- INSTALL EROSION CONTROL DEVICES AT SITE DISCHARGE POINTS AND ALL SILT FENCE TO PREVENT OFF SITE SEDIMENTATION.
- PERFORM CLEARING DEMOLITION WORK.
- CONSTRUCT DETENTION POND. INSTALL SKIMMER OR DRAWDOWN ORIFICE AND POROUS BAFFLES UNTIL SITE IS STABILIZED.
- INSTALL THE REMAINING SEDIMENT AND EROSION CONTROL PROTECTION.
- INSTALL THE STONE BASE AND ASPHALT FOR THE PROPOSED PARKING.
- PROVIDE GROUND COVER IN ACCORDANCE WITH DETAIL MARKED 'EROSION CONTROL MEASURES', THIS SHEET.
- MONITOR AND MAINTAIN THE INSTALLED EROSION CONTROL MEASURES AND REPAIR AS NECESSARY.
- ONCE VEGETATION IS ESTABLISHED, REMOVE POROUS BAFFLES AND SEDIMENT FROM DRAWDOWN POND AND RESTORE TO DESIGN DEPTHS. REMOVE SKIMMER FROM DRAWDOWN ORIFICE.
- REMOVE ANY REMAINING CONTROL DEVICES.

THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF THE EROSION AND SEDIMENT CONTROL STANDARDS AND SPECIFICATIONS OF THE DEPARTMENT OF ENVIRONMENTAL AND NATURAL RESOURCES. SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE PROVIDED ON ALL AREAS OF THE SITE WHICH ALL DISTURBED OR GRADED.

PROVIDE A GROUND COVER (TEMPORARY OR PERMANENT) ON EXPOSED SLOPES WITHIN 14 CALENDAR DAYS FROM THE LAST LAND DISTURBING ACTIVITY FOR SLOPES 3:1 OR FLATTER AND LESS THAN 50' IN LENGTH, FOR SLOPES 4:1 OR FLATTER OF ANY LENGTH (EXCEPT FOR PERIMETERS AND HWQ ZONES), AND SLOPES NO STEEPER THAN 2:1 AND LESS THAN 10' IN LENGTH.

PROVIDE GROUND COVER (TEMPORARY OR PERMANENT) ON EXPOSED SLOPES WITHIN 7 CALENDAR DAYS FOR SLOPES STEEPER THAN 3:1 OR SLOPES 3:1 OR FLATTER GREATER THAN 50' IN LENGTH, FOR HIGH QUALITY WATER (HWQ) ZONES, AND PERIMETER DIKES, SWALES, DITCHES AND SLOPES.

PROVIDE GROUND COVER (TEMPORARY OR PERMANENT) ON ALL EXPOSED SLOPES WITHIN 21 CALENDAR DAYS FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT.

THE CONTROL MEASURES SHALL BEGIN PRIOR TO ANY LAND DISTURBING ACTIVITY INCLUDING CLEARING; SHALL CONTINUE DURING CONSTRUCTION AND SHALL CONTINUE WITH THE NECESSARY MAINTENANCE UNTIL THE DISTURBED AREA IS STABILIZED. COMPLIANCE WITH LOCAL AND/OR STATE SOIL EROSION AND SEDIMENTATION CONTROL LAWS SHALL BE THE ENTIRE RESPONSIBILITY OF THE CONTRACTOR. THIS PARAGRAPH IS INTENDED TO SERVE ONLY AS A GUIDE TO THE CONTRACTOR FOR COMPLIANCE WITH SUCH LAWS, ORDERS, RULES AND REGULATIONS CONCERNING EROSION AND SEDIMENTATION CONTROL. PROTECTION OF EXISTING STRUCTURES AND FACILITIES FROM SEDIMENTATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ITEMS TO BE PROTECTED SHALL INCLUDE, BUT ARE NOT LIMITED TO, CATCH BASINS, NATURAL WATERWAYS, DRAINAGE DITCHES, WALKS, DRIVES, ROADS, LAWNS, AND STREAMS.

EROSION CONTROL MEASURES

NO SCALE

SEEDBED PREPARATION

CONSTRUCTION SPECIFICATIONS

- PREPARE SOIL AS NECESSARY TO ESTABLISH AN ADEQUATE SEEDBED FOR RECEIVING SEED USING TILLAGE AND/OR REMOVAL OF DEBRIS (ROCKS, ROOTS, OBSTRUCTIONS); CHISEL COMPACTED AREAS AND SPREAD TOPSOIL 3 INCHES DEEP OVER ADVERSE SOIL CONDITIONS, IF AVAILABLE.
- SOIL SHALL RECEIVE LIME, FERTILIZER AND/OR SUPERPHOSPHATE UNIFORM AS NEEDED PER RECOMMENDATIONS FROM NORTH CAROLINA DEPARTMENT OF AGRICULTURE OR OTHER COMMERCIAL LABORATORY.
- SEED ON A FRESHLY PREPARED SEEDBED AND ENSURE SEED IS LIGHTLY COVERED FOLLOWING INSTALLATION.
- MULCH IMMEDIATELY AFTER SEEDING.
- CONTRACTOR SHALL SEED ALL AREAS THAT ARE DISTURBED WITHIN TWO DAYS. INSPECT ALL SEEDED AREAS AND MAKE SURE NECESSARY REPAIRS OR RESEEDINGS WITHIN THE PLANTING SEASON, IF POSSIBLE. AFTER ALL CONSTRUCTION ACTIVITIES ARE COMPLETE, AN INSPECTION WILL BE COMPLETED TO DETERMINE IF ADDITIONAL SEEDING WILL BE REQUIRED.

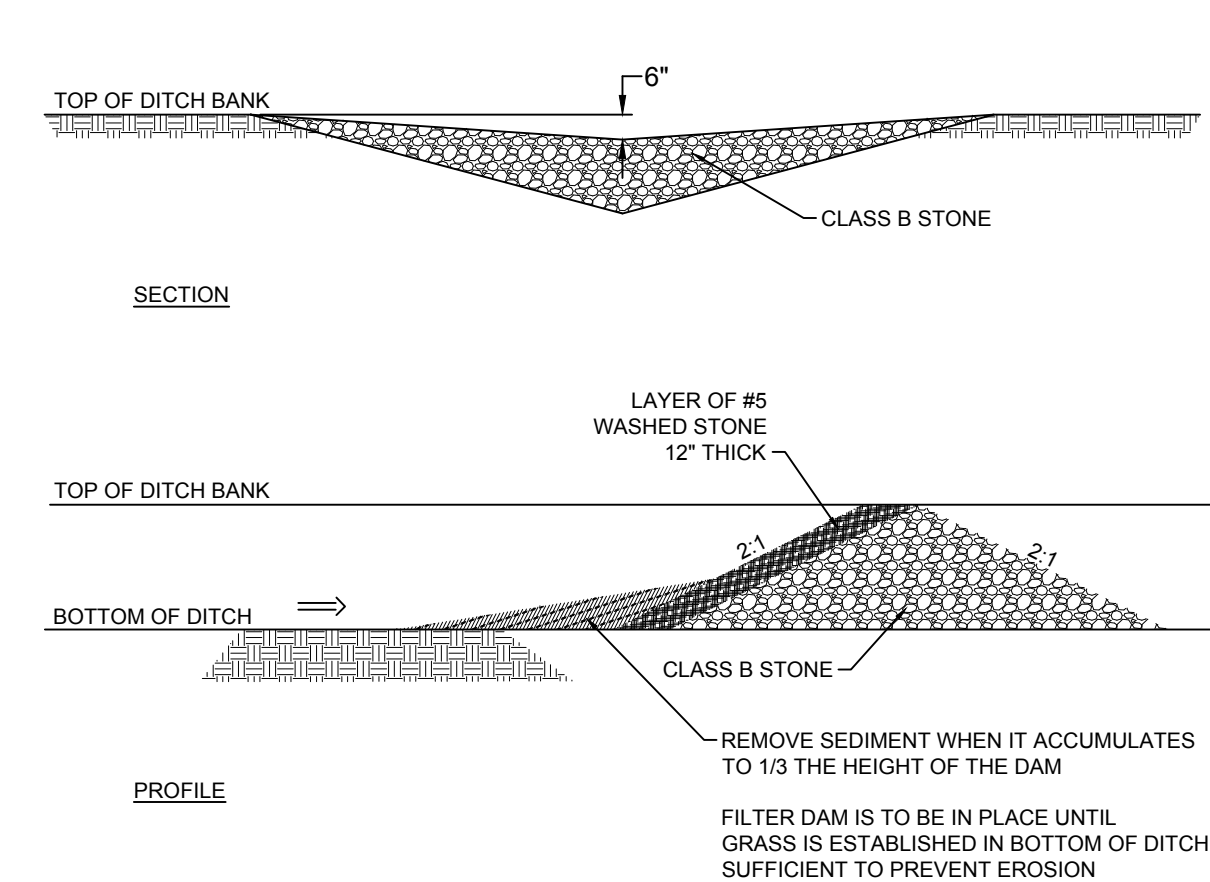
*APPLY: FERTILIZER, LIME, AND MULCH SHALL BE APPLIED AT RATES RECOMMENDED BY NCDA (OR OTHERS) OTHERWISE, APPLY AS DESCRIBED BELOW.

AGRICULTURAL LIMESTONE - 1-1.5 TONS/ACRE ON COARSE TEXTURED SOILS AND 2-3 TONS/ACRE IN FINE TEXTURED SOILS. SOILS WITH PH OF 6 OR HIGHER NEED NOT BE LIME.

FERTILIZER - 700/100 LBS/ACRE (10-10-10)

MULCH - 2 TONS/ACRE (SMALL GRAIN STRAW)

ANCHOR - ASPHALT EMULSION AT 450 GAL/ACRE



CHECK DAM

NO SCALE

PERMANENT SEEDING SCHEDULE FOR COASTAL PLAIN

DATE	TYPE	BROADCAST SEEDING RATES
OCT 1 - APR 1	SERICA LESPEDAZA	15 LBS/ACRE
AUG 30 - MAR 15	KY 31 TALL FESCUE	200-250 LBS/ACRE
AUG 15 - APR 15	RYE GRAIN	40 LBS/ACRE
APR 15 - AUG 15	GERMAN MILLET	10 LBS/ACRE

TEMPORARY SEEDING SCHEDULE

DATE	TYPE	PLANTING RATES
DEC 1 - APR 15	ANNUAL LESPEDAZA (KOBÉ IN PIEDMONT AND COASTAL PLAIN)	50 LBS/ACRE
APR 15 - AUG 15 (COASTAL PLAIN)	GERMAN MILLET	40 LBS/ACRE
AUG 15 - DEC 30 (COASTAL PLAIN)	RYE	120 LBS/ACRE

boomerang DESIGN
rethink, repurpose, results

CHARLOTTE: 1230 W. Morehead St., Suite 214, Charlotte, NC 28208, 704/741-3000

SHEFFIELD: 2015 S. Washington St., Suite 200, Sheff, NC 28152, 704/406-6000

RALEIGH: 6331 Falls of Neuse Rd., Suite 204, Raleigh, NC 27609, 919/771-6600

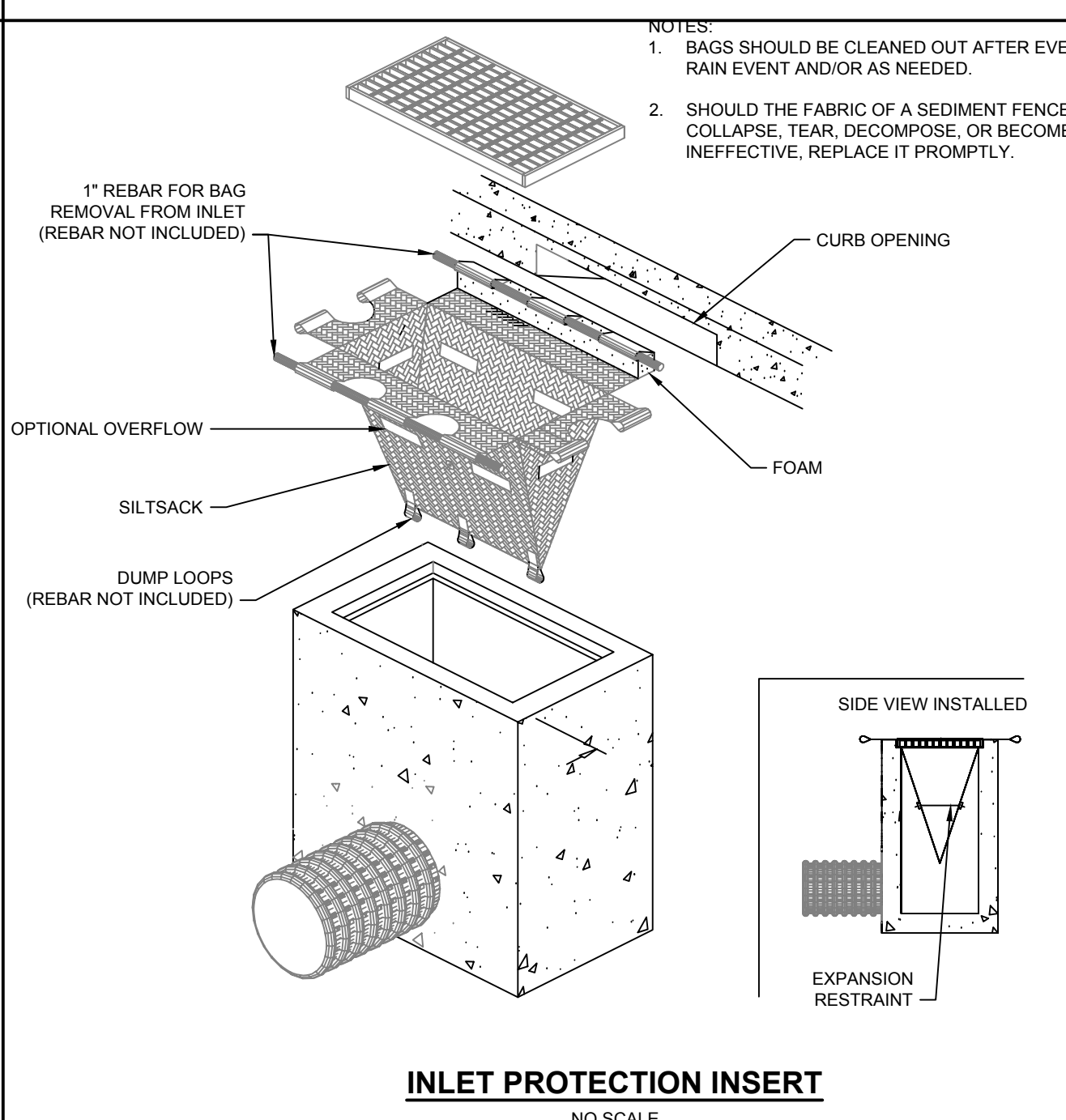
LEWISTON: 1070 S. Lake Dr., Suite J, Lewiston, SC 29757, 803/516-0007

SUSSEX DEVELOPMENT CORPORATION

PROGRESS PRINT
MAY 24, 2023
NOT FOR CONSTRUCTION

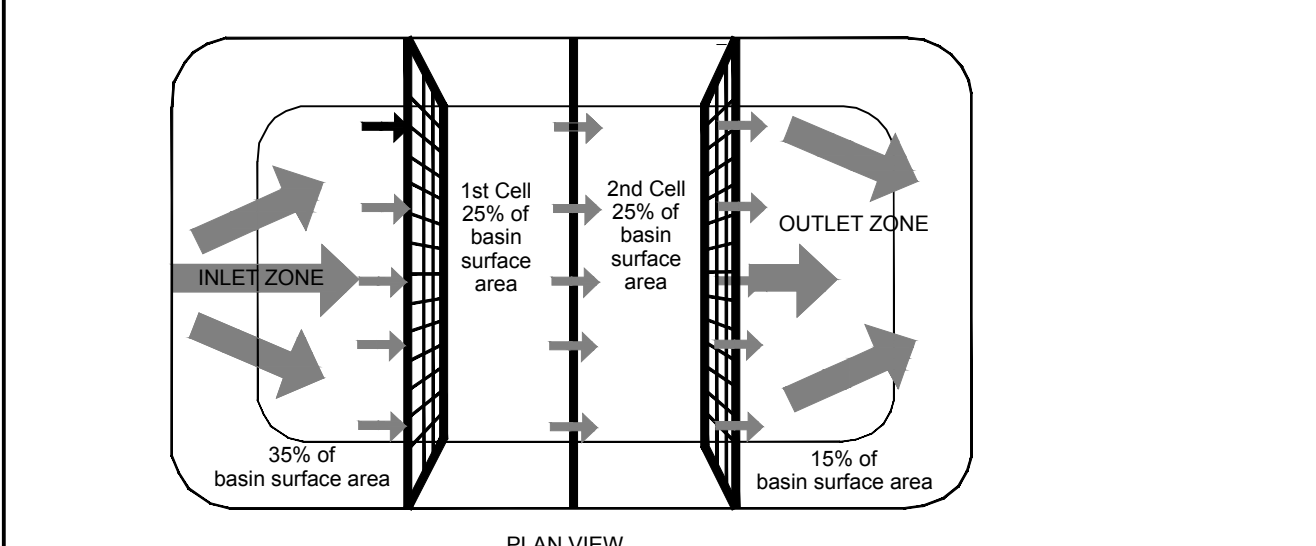
TULLS CREEK ELEMENTARY SCHOOL
PROJECT TITLE

PRELIMINARY NOT FOR CONSTRUCTION



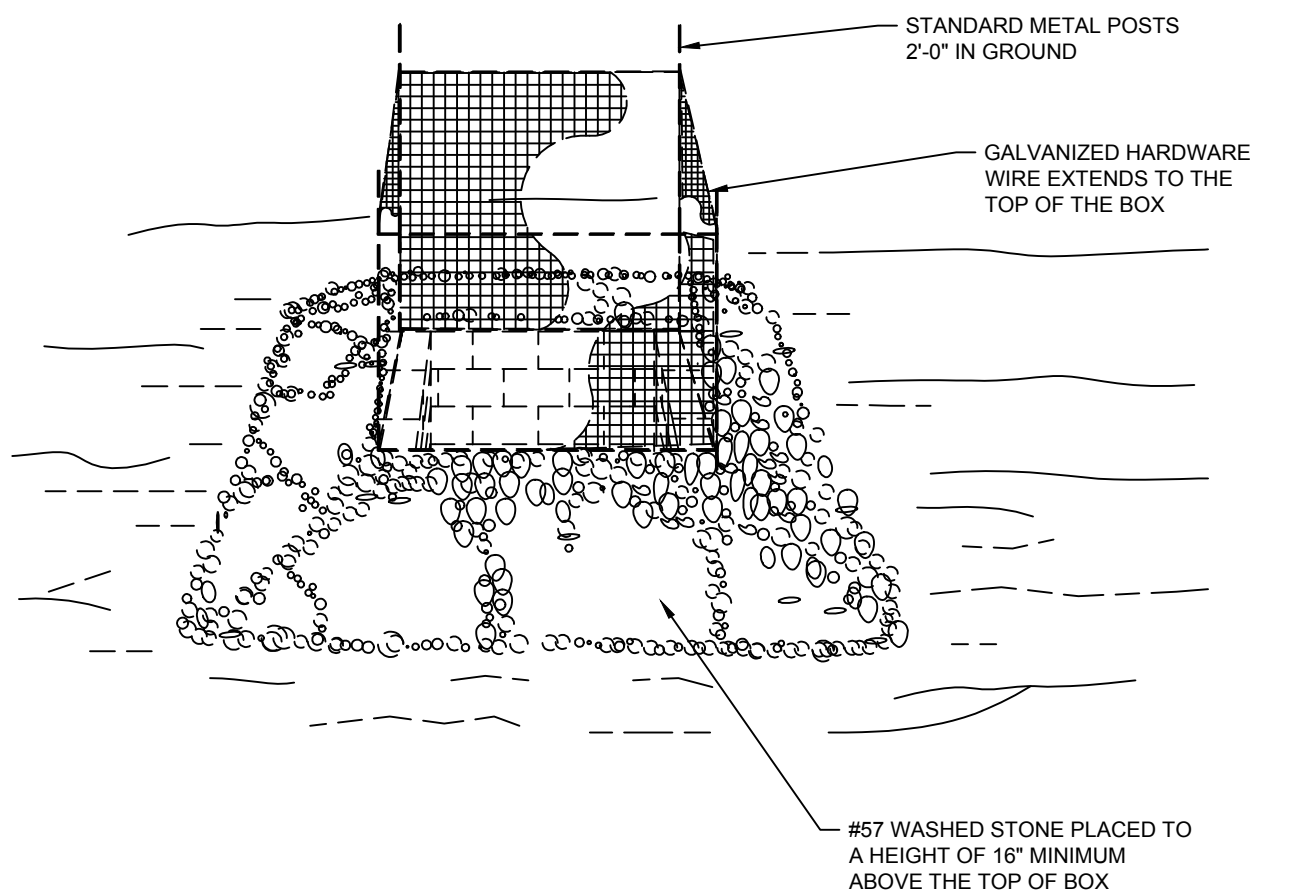
INLET PROTECTION INSERT

NO SCALE



COIR BAFFLES

NO SCALE

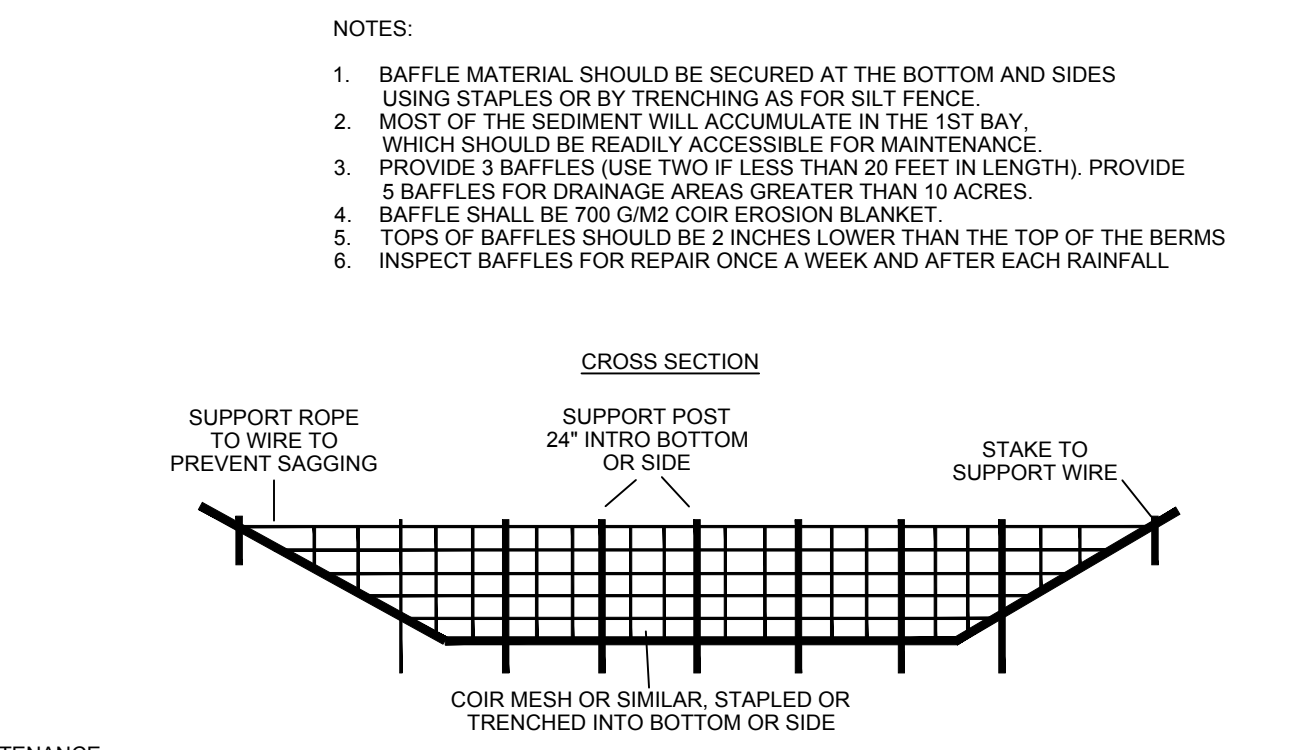


INLET PROTECTION

NO SCALE

MAINTENANCE

INSPECT BAFFLES AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENT. CLEAR THE MESH WIRE OF ANY DEBRIS OR OTHER OBJECTS TO PROVIDE ADEQUATE FLOW FOR SUBSEQUENT RAINS. TAKE CARE NOT TO DAMAGE OR UNDERCUT THE WIRE MESH DURING SEDIMENT REMOVAL. REPLACE STONE AS NEEDED.



CROSS SECTION

NO SCALE

MAINTENANCE

INSPECT BAFFLES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY. BE SURE TO MAINTAIN ACCESS TO THE BAFFLES. SHOULD THE FABRIC OF A BAFFLE COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.

REMOVE SEDIMENT DEPOSITS WHEN IT REACHES HALF FULL TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE BAFFLES. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT. SEDIMENT DEPTH SHOULD NEVER EXCEED HALF THE DESIGNED STORAGE DEPTH.

REMOVE ALL BAFFLE MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

70% CD
PROJECT PHASE
2207
BOOMERANG DESIGN PROJECT NUMBER
05.24.2023
DRAWING RELEASE DATE

EROSION CONTROL DETAILS

SHEET TITLE
C6.4

SHEET

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTION

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

Inspect	Frequency (during normal business hours)	Inspection records must include:
(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts. If an only one gauge observation is made during weekend or holiday periods, and no individual daily rainfall information is available, record the cumulative rain measurement for those on-attendance days (this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "zero." The permittee may use another rain-measuring device approved by the Division.
(2) EESC Measures	At least once per 7 calendar days and within 24 hours of a rain event > 0.1 inch in 24 hours	1. Identification of the discharge outlets inspected. 2. Date and time of the inspection. 3. Name of the person performing the inspection. 4. Indication of whether the measures were operating properly. 5. Description of maintenance needs for the measures. 6. Description, evidence, and date of corrective actions taken.
(3) Stormwater discharge outlet(s) (DOC)	At least once per 7 calendar days and within 24 hours of a rain event > 0.1 inch in 24 hours	1. Identification of the discharge outlets inspected. 2. Date and time of the inspection. 3. Name of the person performing the inspection. 4. Evidence of indications of stormwater pollution such as oil sheen, heaving or suspended solids or discoloration. 5. Indication of visible sediment leaving the site. 6. Description, evidence, and date of corrective actions taken.
(4) Perimeter of site	At least once per 7 calendar days and within 24 hours of a rain event > 0.1 inch in 24 hours	If visible sedimentation is found outside site basins, then a record of the following shall be made: 1. Actions taken to clean up or stabilize the sediment that has left the site. 2. Description, evidence, and date of corrective actions taken, and 3. An indication of when the actions taken to control future releases.
(5) Streams or wetlands onsite or offsite (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event > 0.1 inch in 24 hours	If the stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, the permittee shall report the incident to the appropriate Regional Office per Part III, Section C, Item (2)(g) of this permit. 1. Description, evidence and date of corrective actions taken, and 2. Records of any required reports to the appropriate Regional Office per Part III, Section C, Item (2)(g) of this permit.
(6) Ground stabilization measures	After each phase of grading	1. The phases of grading (installation of perimeter EESC measures, clearing and grubbing, installation of storm drainage facilities, completion of land disturbing activity, construction or redevelopment, permanent stabilization). 2. Documentation that the required ground stabilization measures have been provided in accordance with the timeframes or an assurance that they will be provided as soon as possible.

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

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING

1. EESC Plan Documentation

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

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

2. Additional Documentation to be Kept on Site

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

(a) This General Permit as well as the Certificate of Coverage, after it is received.

(b) Records of inspections made during the previous twelve months. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.

3. Documentation to be Retained For Three Years

All data used to complete the e-NOI and all inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING

1. Occurrences that Must be Reported

The approved EESC plan as well as any approved deviation shall be kept on the site. The following occurrences:

(a) Visible sediment deposition in a stream or wetland.

(b) Oil spill if:

- They are 25 gallons or more,
- They are less than 25 gallons but cannot be cleaned up within 24 hours,
- They cause sheen on surface waters (regardless of volume), or
- They are within 100 feet of surface waters (regardless of volume).

(c) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.

(d) Anticipated bypasses and unanticipated bypasses.

(e) Noncompliance with the conditions of this permit that may endanger health or the environment.

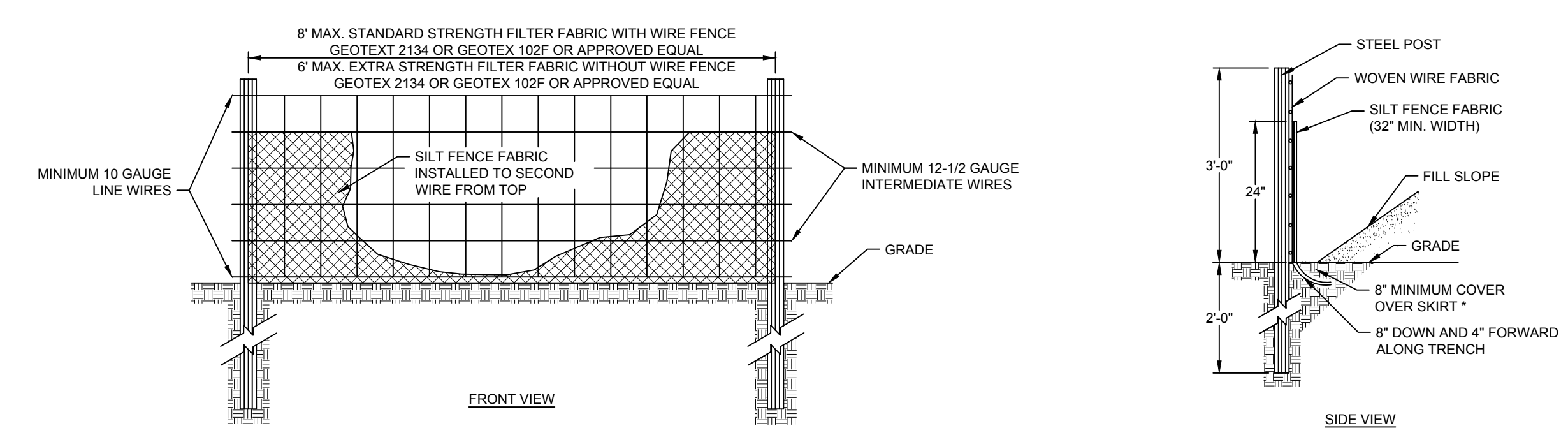
2. Reporting Timeframes and Other Requirements

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

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	Within 24 hours , an oral or electronic notification. Within 7 calendar days , a report that contains a description of the sediment and actions taken to address the cause of the sediment. Division staff may waive the requirement for a written report on a case-by-case basis. If the stream is named on the SIC 300(a) list as impaired for sediment-related causes, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.
(b) Oil spills and release of hazardous substances per item 2(b)(1)-(c) above	Within 24 hours , an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.
(c) Anticipated bypasses	A report at least ten days before the date of the bypass, if possible. The report shall include an evaluation of the anticipated quality and effect of the bypass.
(d) Unanticipated bypasses	Within 24 hours , an oral or electronic notification. Within 7 calendar days , a report that includes an evaluation of the quality and effect of the bypass.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment (40 CFR 122.41)(7)(f)	Within 7 calendar days , a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance. (40 CFR 122.41)(8)(b). Division staff may waive the requirement for a written report on a case-by-case basis.



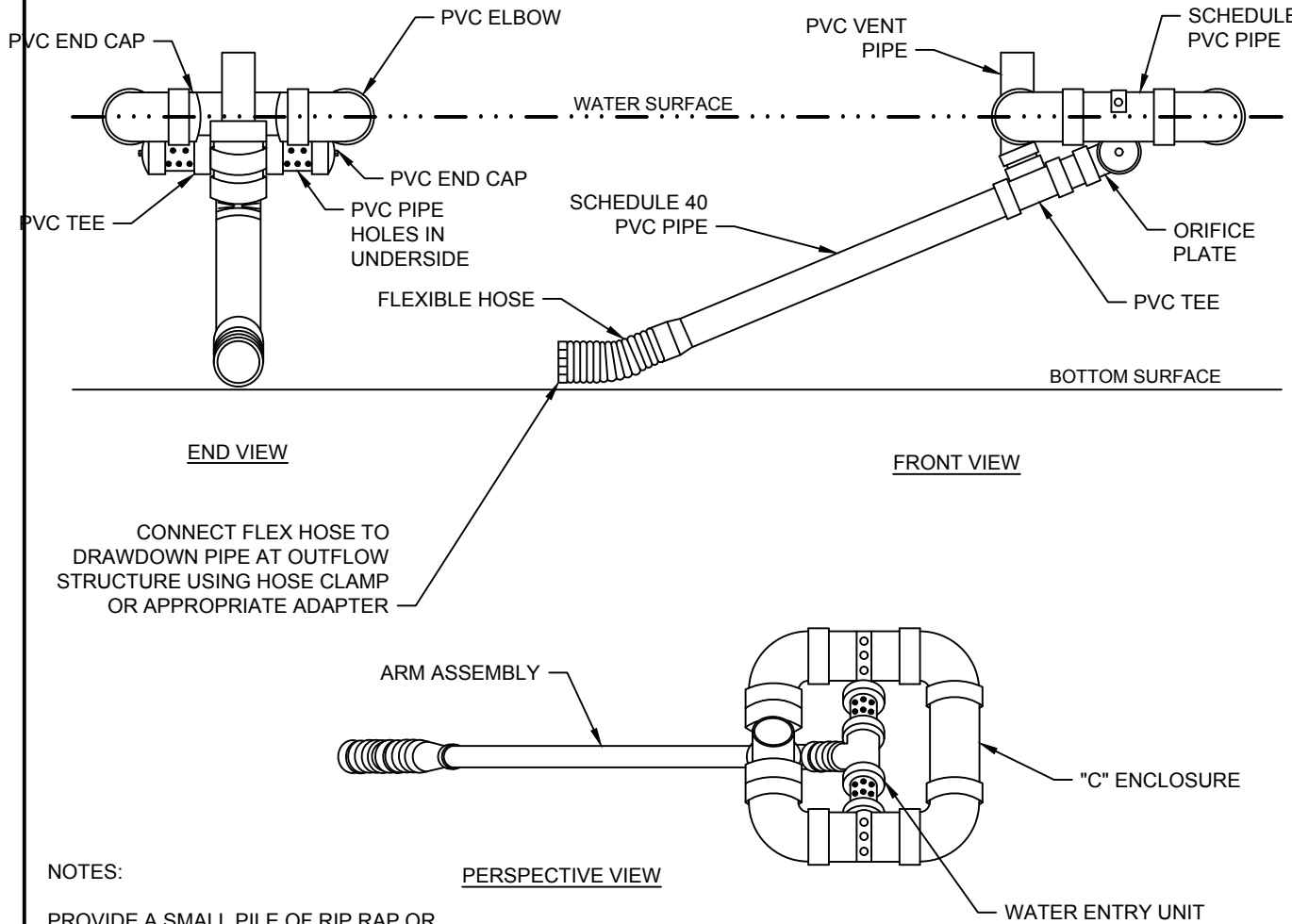
NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING EFFECTIVE: 04/01/19



- CONSTRUCTION SPECIFICATIONS**
- USE SYNTHETIC FILTER FABRIC OF AT LEAST 95% BY WEIGHT OF POLYOLEFINS OR POLYESTER, WHICH IS CERTIFIED BY THE MANUFACTURER OR SUPPLIER AS CONFORMING TO THE REQUIREMENTS IN ASTM D 6481.
 - SYNTHETIC FILTER FABRIC SHOULD CONTAIN ULTRAVIOLET RAY INHIBITORS AND STABILIZERS TO PROVIDE A MINIMUM OF 6 MONTHS OF EXPECTED USABLE CONSTRUCTION LIFE AT A TEMPERATURE RANGE OF 0-100 DEGREES F.
 - ENSURE THAT POSTS FOR SEDIMENT FENCES ARE 1.33 LB/LF STEEL WITH A MINIMUM LENGTH OF 6'. MAKE SURE THAT STEEL POSTS HAVE PROJECTIONS TO FACILITATE FASTENING THE FABRIC.
 - FOR REINFORCEMENT OF STANDARD STRENGTH FILTER FABRIC, USE WIRE FENCE WITH A MINIMUM 14 GAUGE AND A MAXIMUM MESH SPACING OF 6 INCHES.

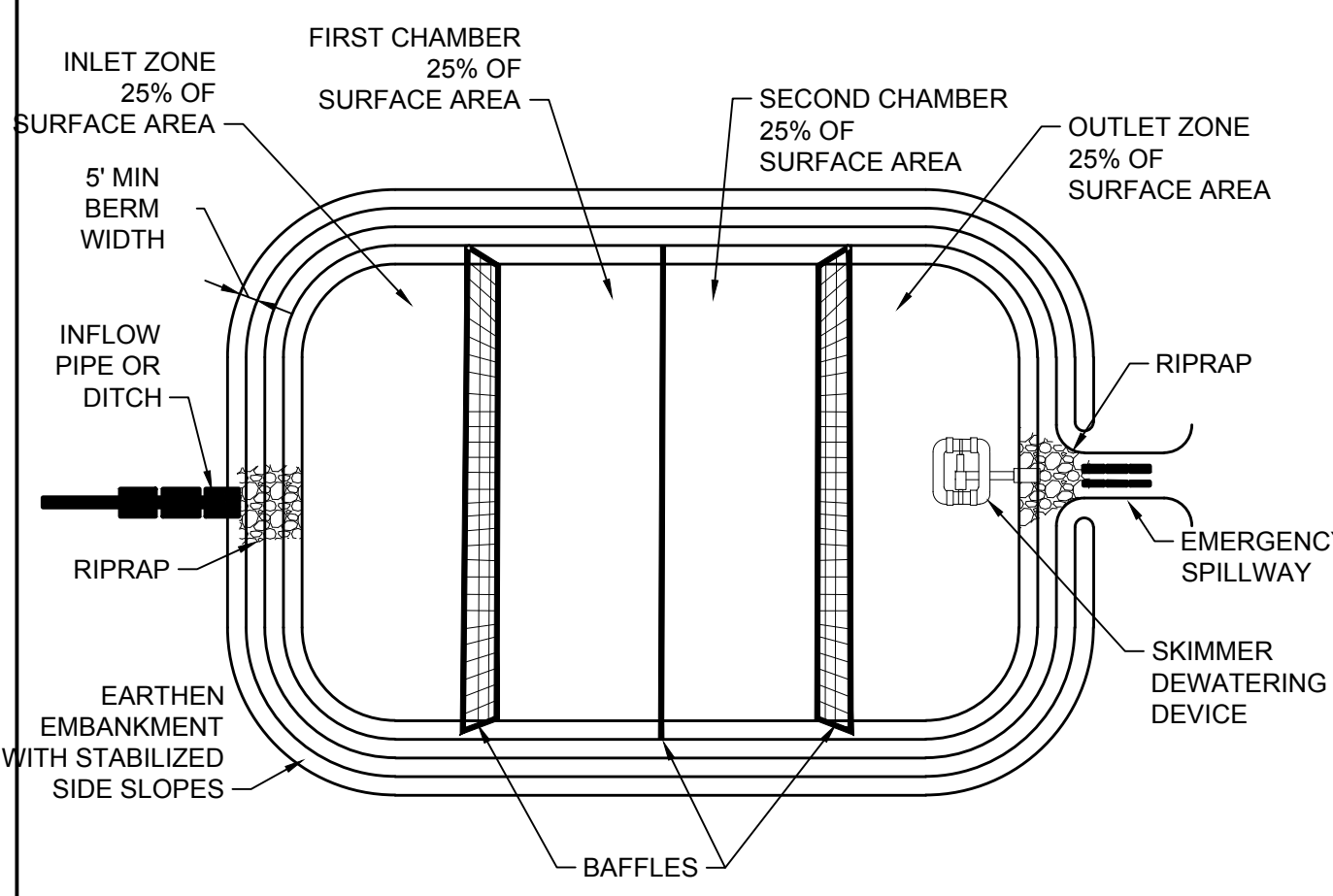
- MAINTENANCE**
- INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.
 - SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.
 - REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT.
 - REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

SILT FENCE
NO SCALE

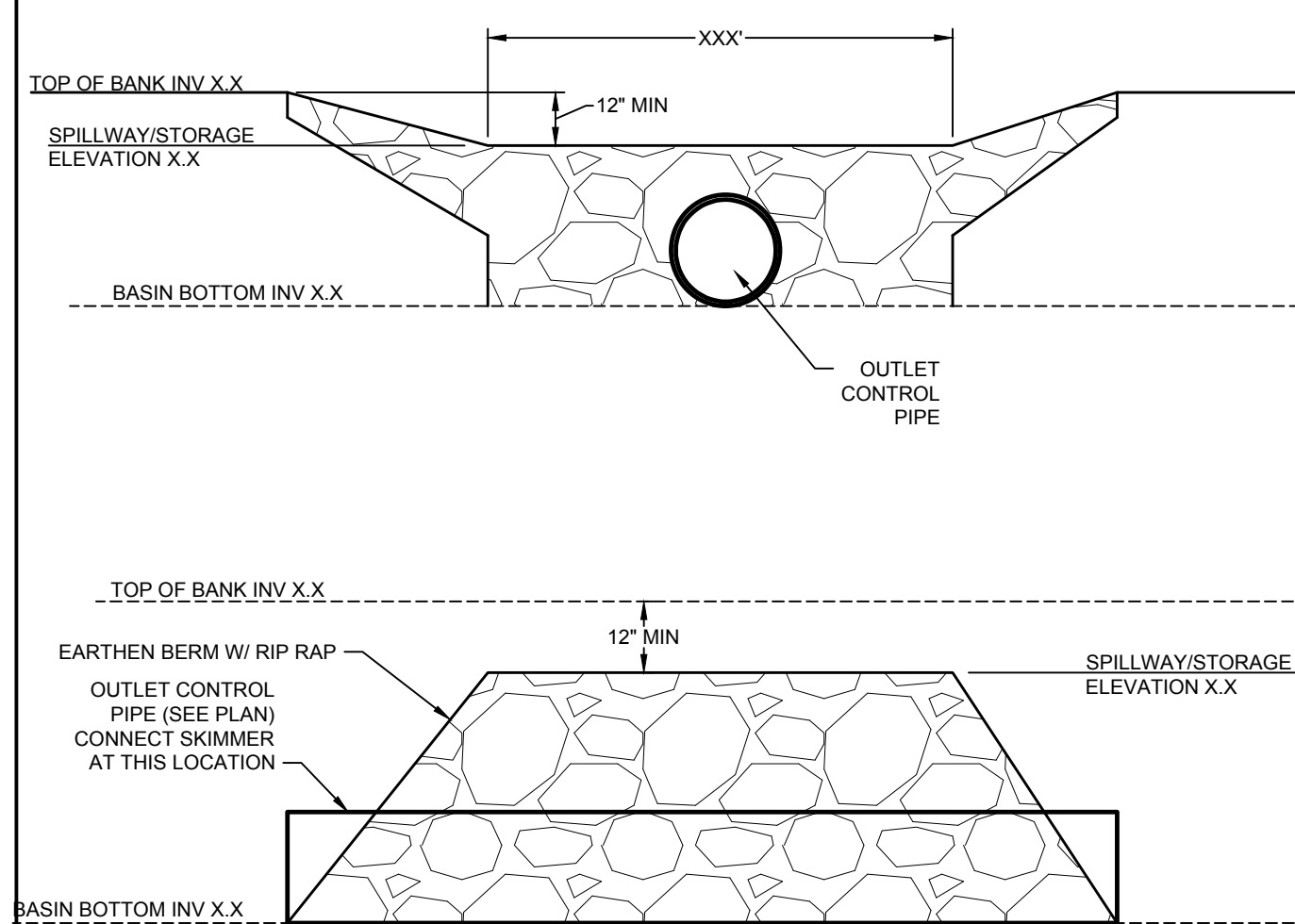


- NOTES:**
- PROVIDE A SMALL PILE OF RIP RAP OR CONCRETE MASONRY BLOCK DIRECTLY BELOW SKIMMER TO PREVENT SKIMMER FROM RESTING ON SOIL.
 - ALL SCHEDULE 40 PVC PIPE & FITTINGS SHALL BE 4" MIN. DIA.
 - SEE N.C. DENR EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL FOR CONDITIONS WHERE PRACTICE APPLIES; PLANNING CONSIDERATION & DESIGN CRITERIA.
 - SKIMMER TO BE TETHERED

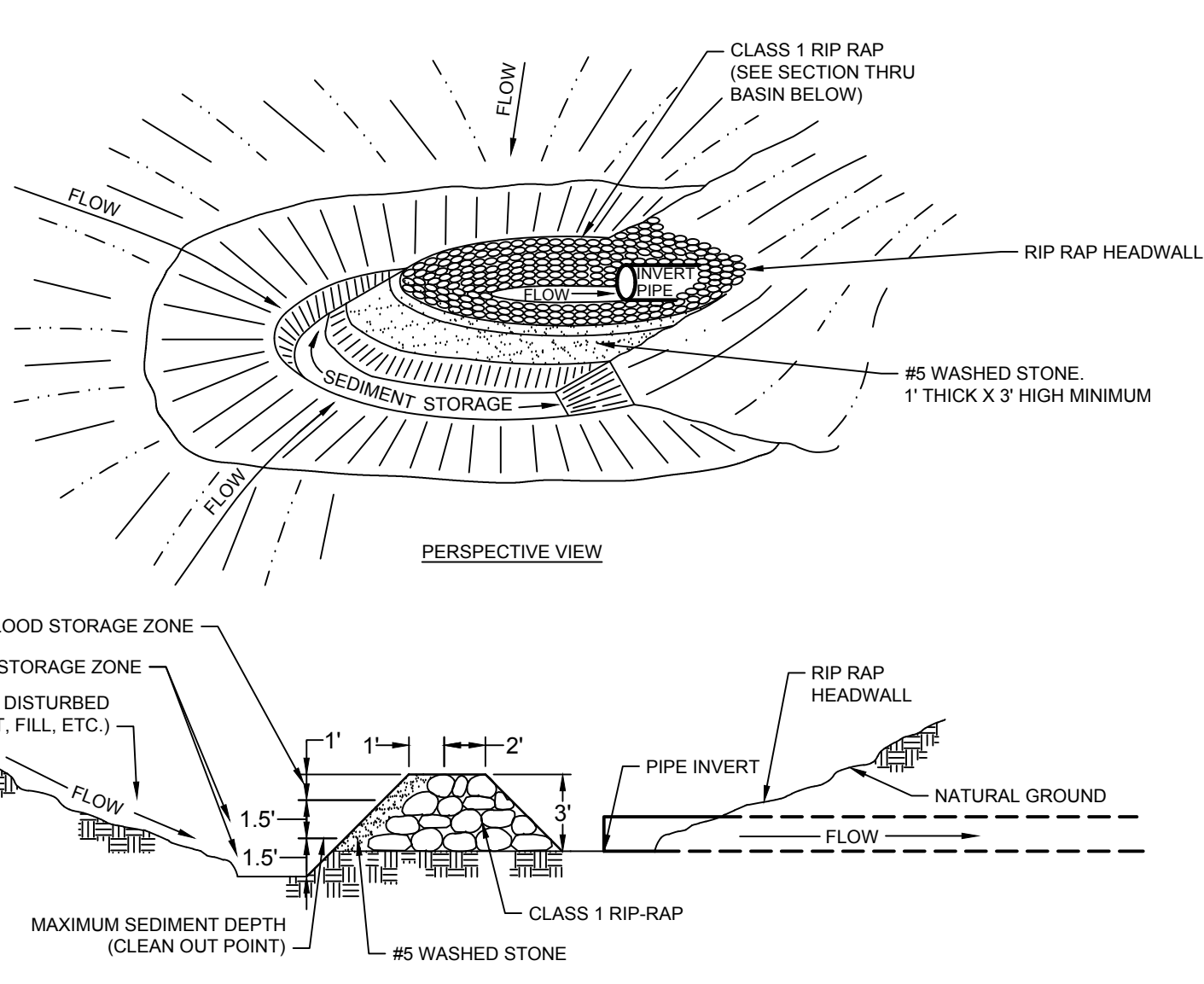
SKIMMER
NO SCALE



SEDIMENT BASIN DETAIL
NO SCALE

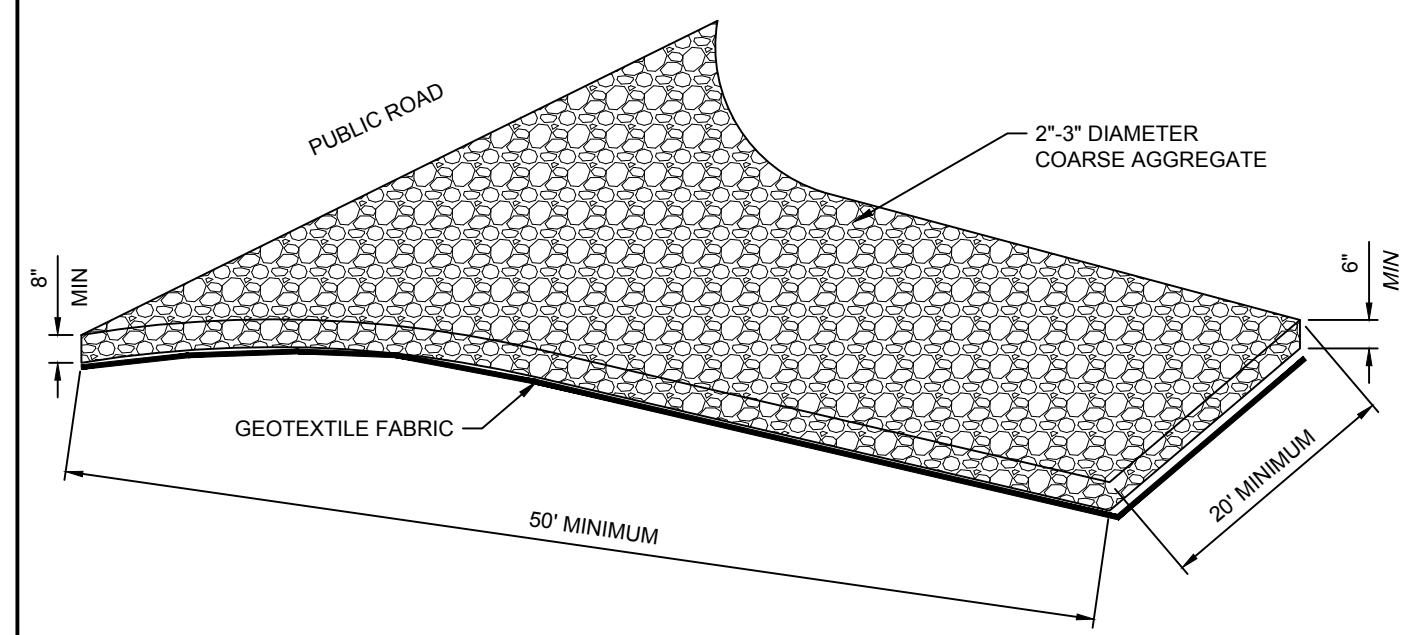


SEDIMENT BASIN EMERGENCY SPILLWAY
NO SCALE



HORSESHOE INLET PROTECTION
NO SCALE

- CONSTRUCTION SPECIFICATIONS:**
- CLEAR THE ENTRANCE AND EXIT AREA OF ALL VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL, AND PROPERLY GRADE IT.
 - PLACE THE GRAVEL TO THE SPECIFIC GRADE AND DIMENSIONS SHOWN ON THE PLAN.
 - PROVIDE DRAINAGE TO CARRY WATER TO A SEDIMENT TRAP OR OTHER SUITABLE OUTLET.
 - USE GEOTEXTILE FABRICS BECAUSE THEY IMPROVE STABILITY OF THE FOUNDATION IN LOCATIONS SUBJECT TO SEEPAGE OR HIGH WATER TABLE.
- MAINTENANCE**
- MAINTAIN THE GRAVEL PAD IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH TWO-INCH STONE. AFTER EACH RAINFALL, INSPECT ANY STRUCTURE USED TO TRAP SEDIMENT AND CLEAN IT OUT AS NECESSARY. IMMEDIATELY REMOVE ALL OBJECTIONABLE MATERIALS SPILLED, WASHED, OR TRACKED ONTO PUBLIC ROADWAYS.



TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT
NO SCALE

PROGRESS PRINT
MAY 24, 2023
NOT FOR
CONSTRUCTION

**TULLS CREEK
ELEMENTARY
SCHOOL**
PROJECT TITLE

**PRELIMINARY
NOT FOR
CONSTRUCTION**

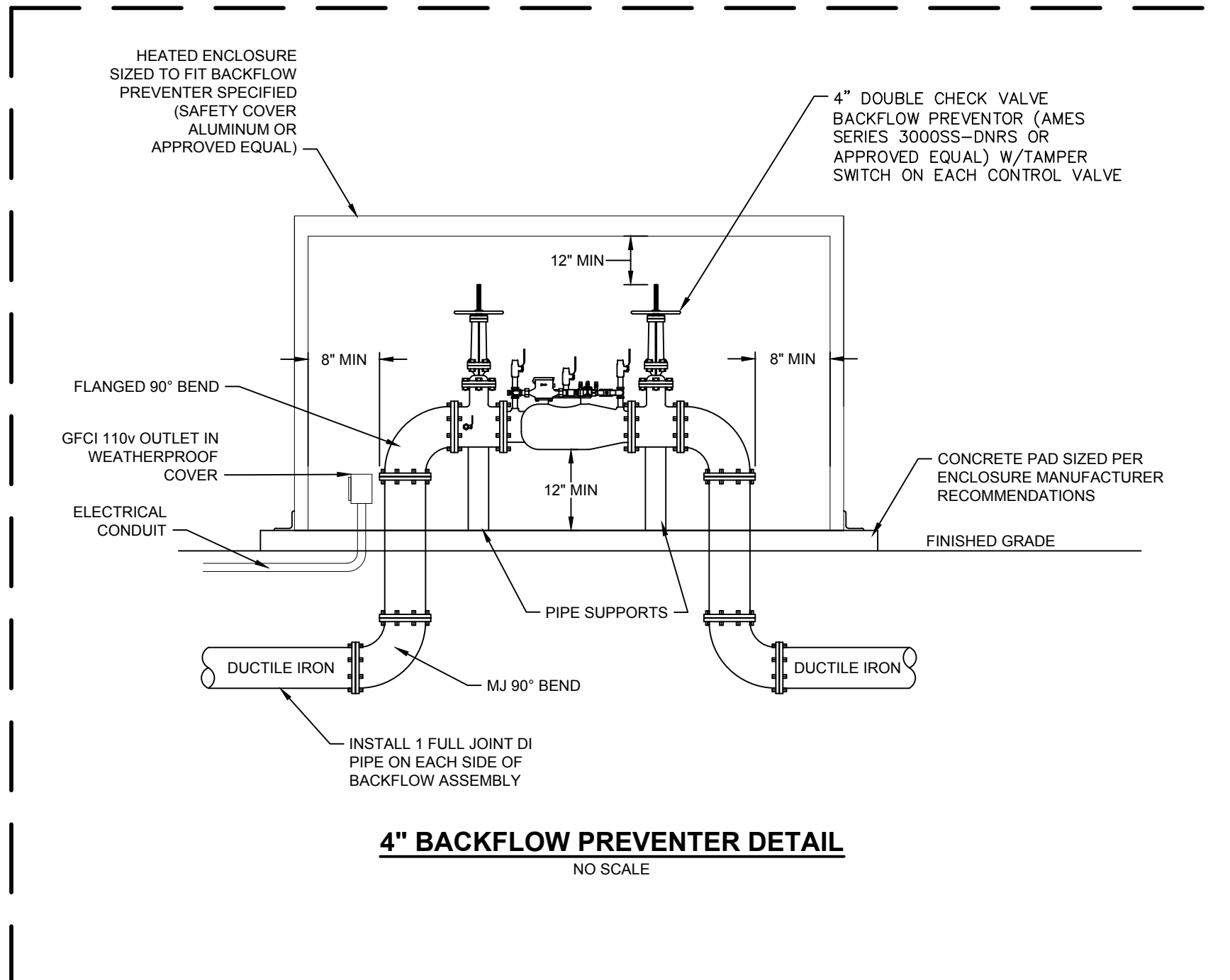
- THIS DRAWING IS THE PROPERTY OF BOOMERANG DESIGN P.A., AND IS NOT TO BE REPRODUCED OR COPIED IN WHOLE OR IN PART. IT IS NOT TO BE USED ON ANY OTHER PROJECT AND IS TO BE RETURNED ON REQUEST.
- MATERIALS, DIMENSIONS AND ALL OTHER CONDITIONS WHICH ARE NOT OTHERWISE DEFINED ON THIS DRAWING SHALL BE CONSIDERED AS HAVING THE SAME MEANING AS SIMILARLY INDICATED CONDITIONS WHICH ARE MORE FULLY DEFINED ELSEWHERE ON THIS PROJECT OR OTHER DRAWINGS OF THIS PROJECT.
- DO NOT SCALE OFF DIMENSIONS.

REVISIONS

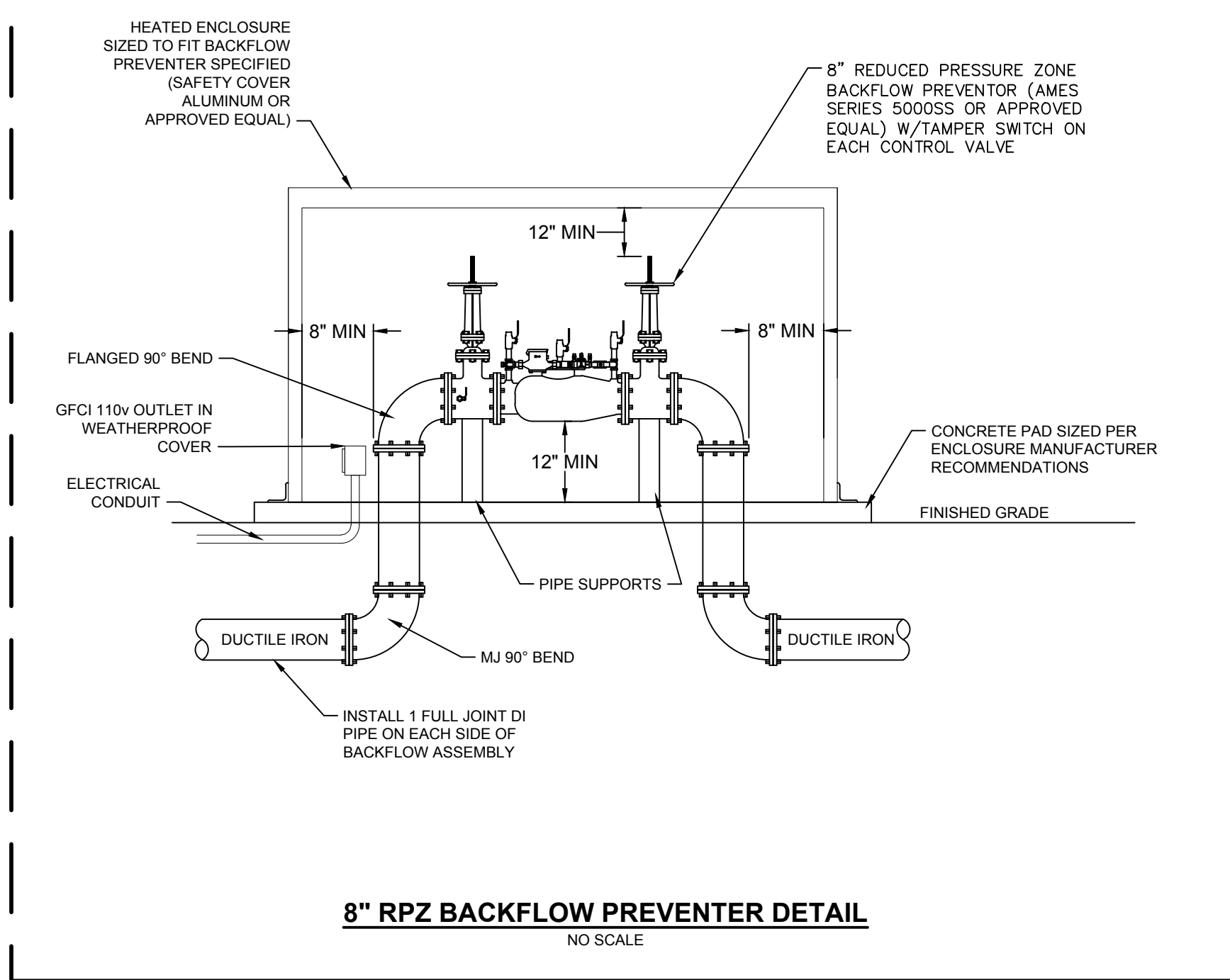
NO.	DATE	DESCRIPTION

70% CD
PROJECT PHASE
2207
BOOMERANG DESIGN PROJECT NUMBER
05.24.2023
DRAWING RELEASE DATE

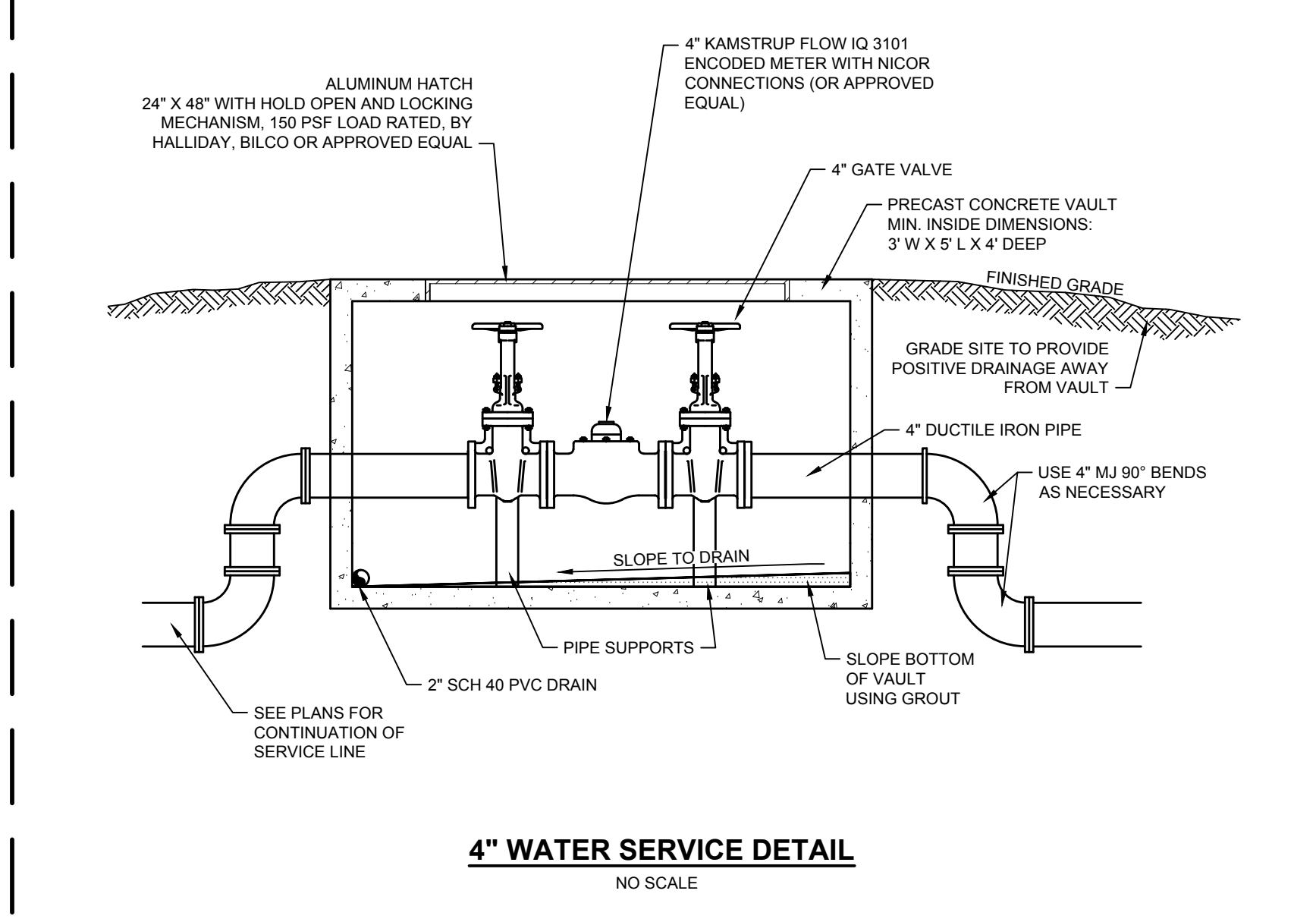
**EROSION CONTROL
DETAILS**
SHEET TITLE
C6.5
SHEET



4\"/>



8\"/>



4\"/>



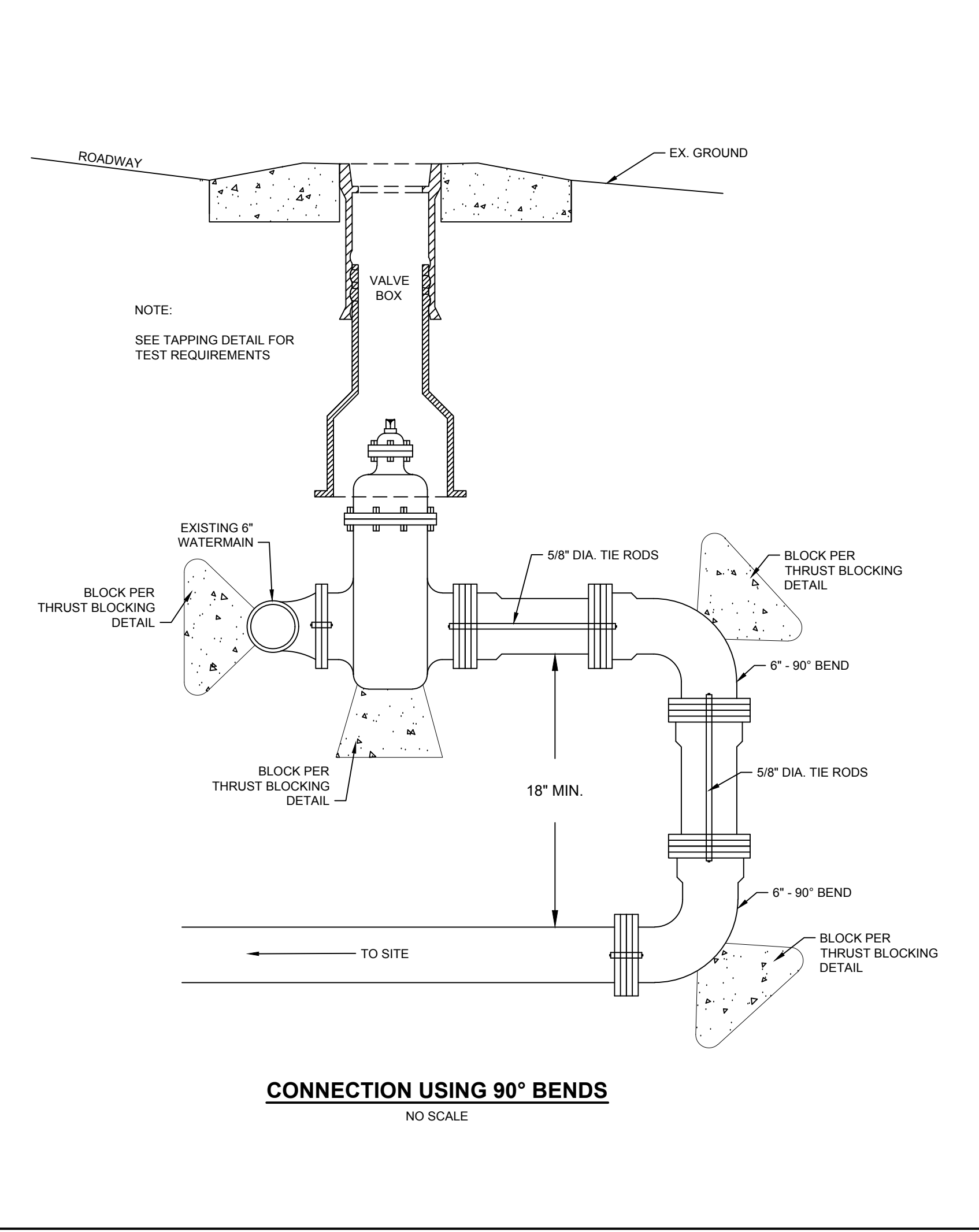
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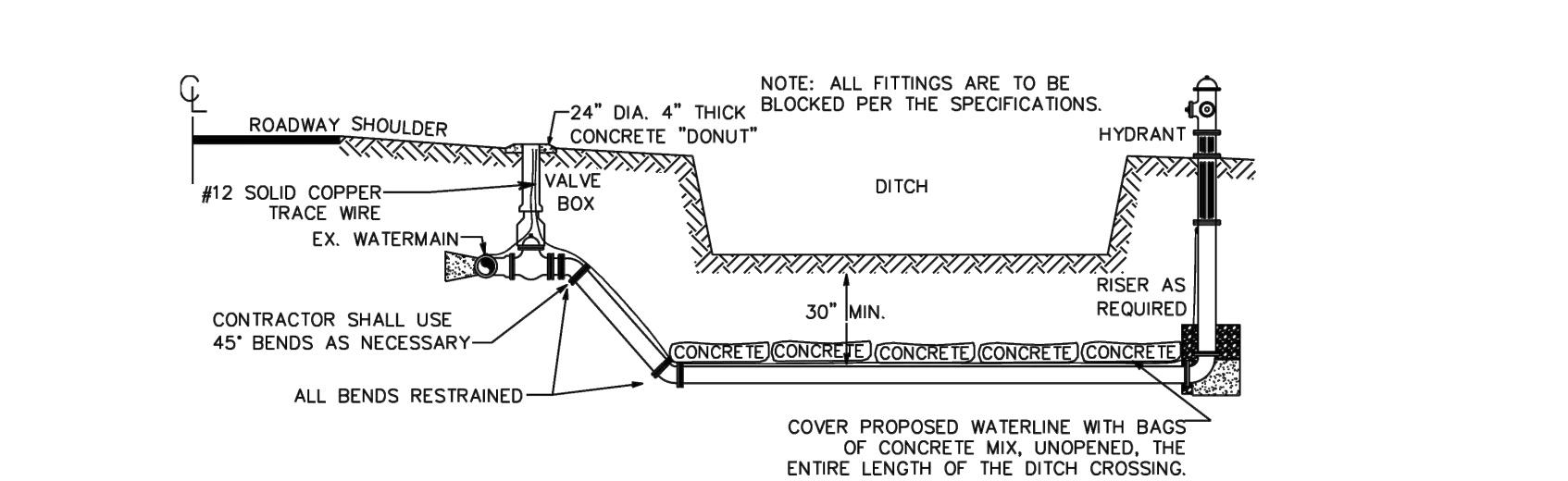
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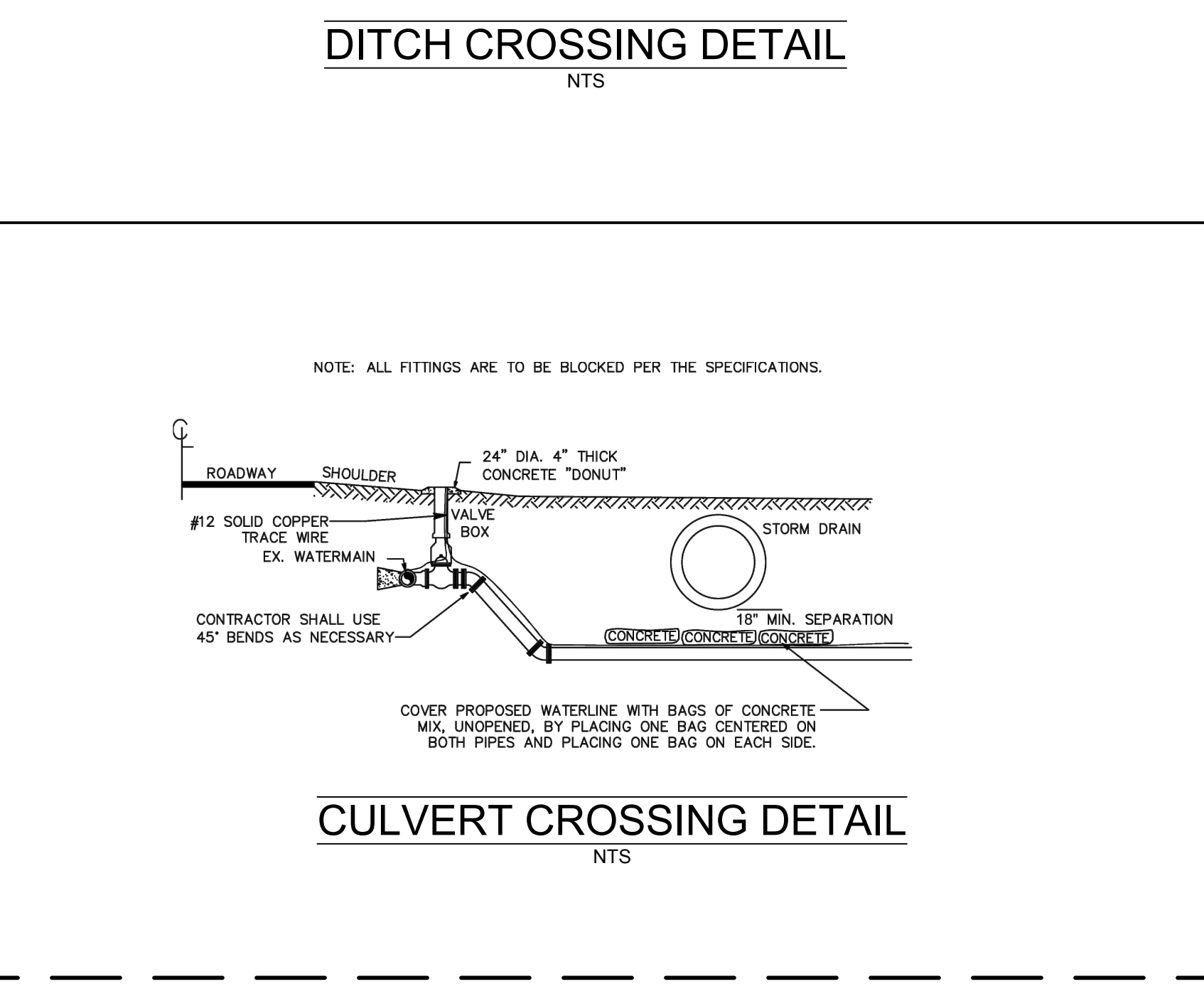
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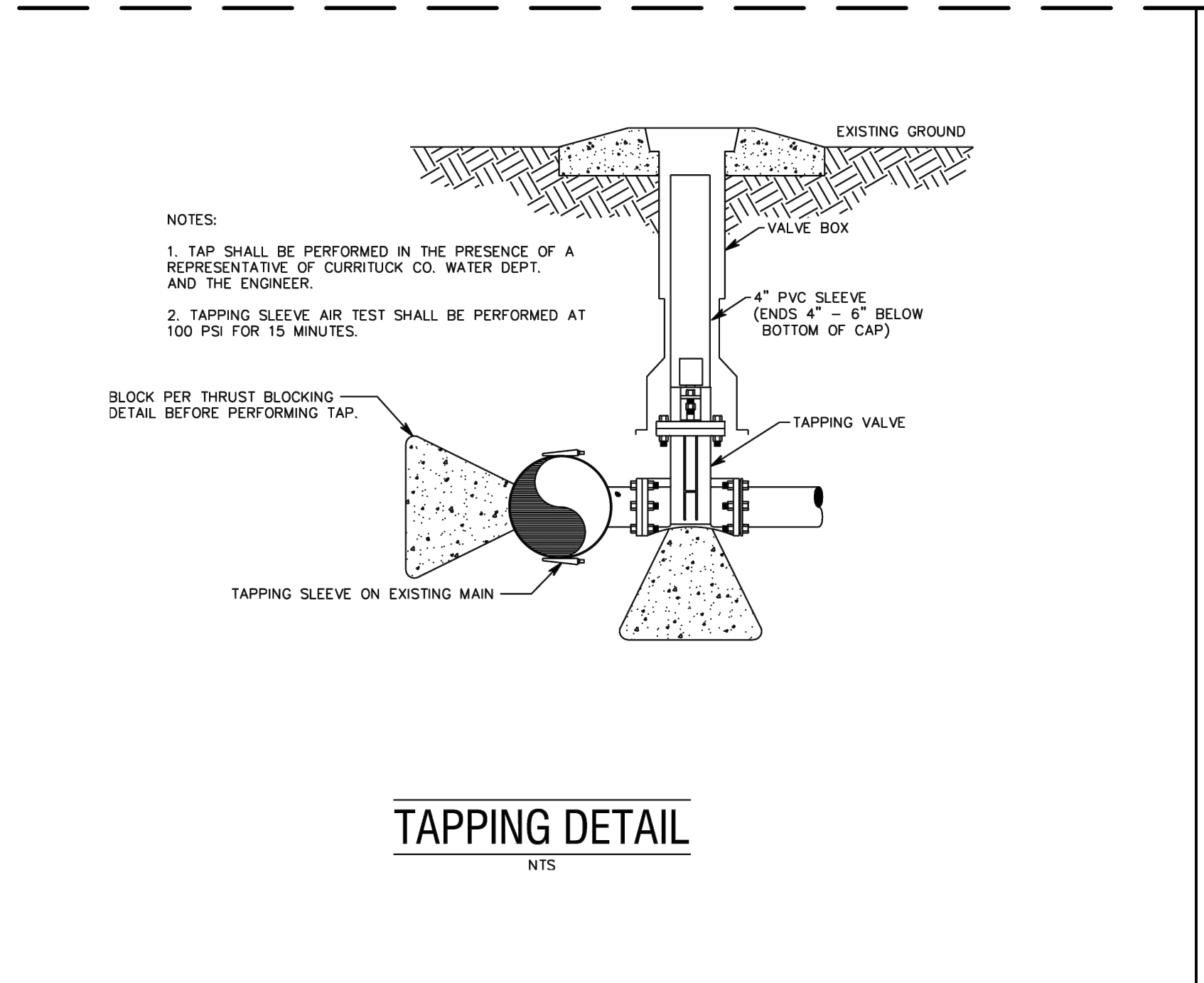
CONNECTION USING 90° BENDS
NO SCALE



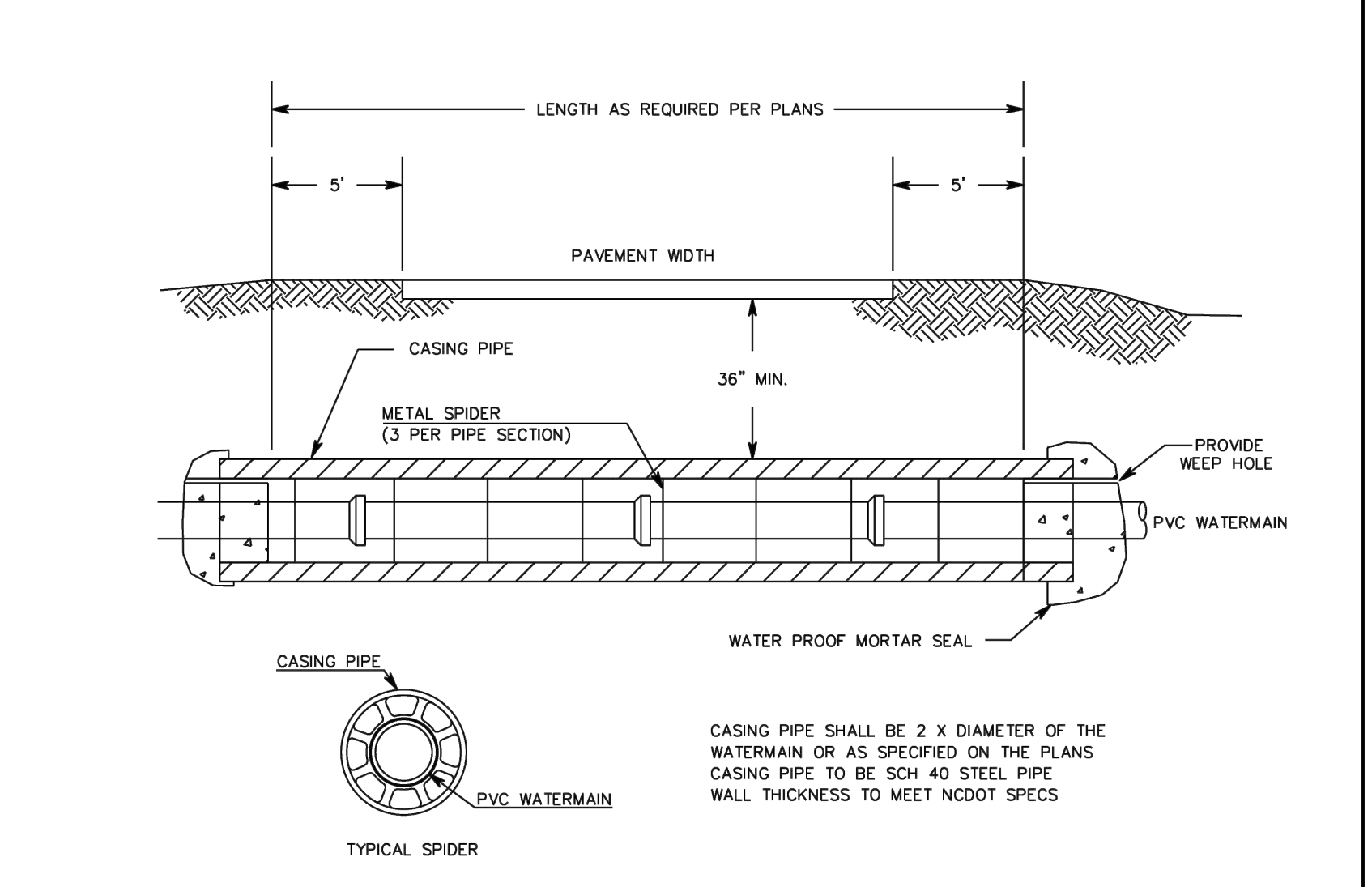
TYPICAL WATERLINE TRENCH DETAIL
NO SCALE



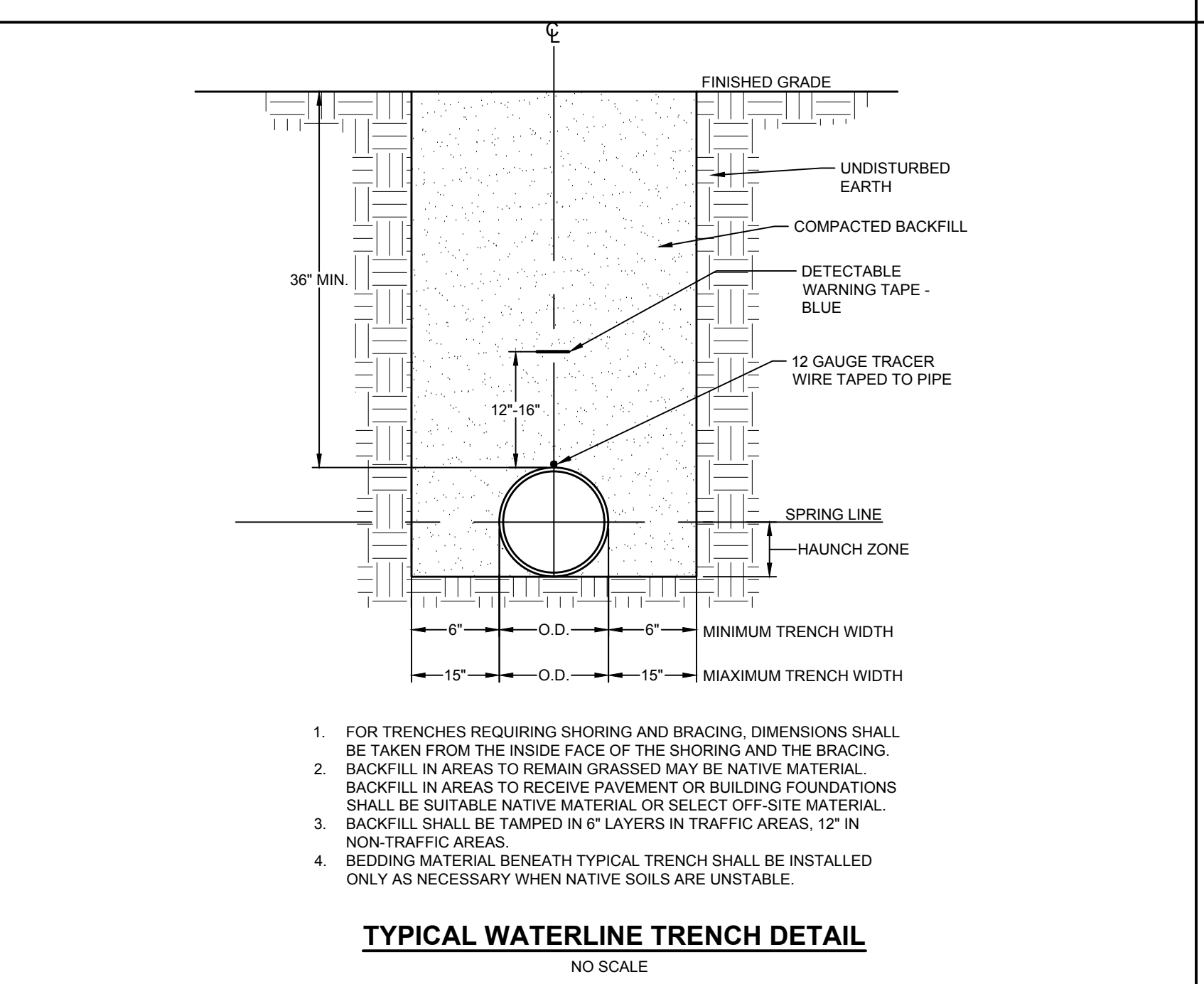
VALVE MARKER DETAIL
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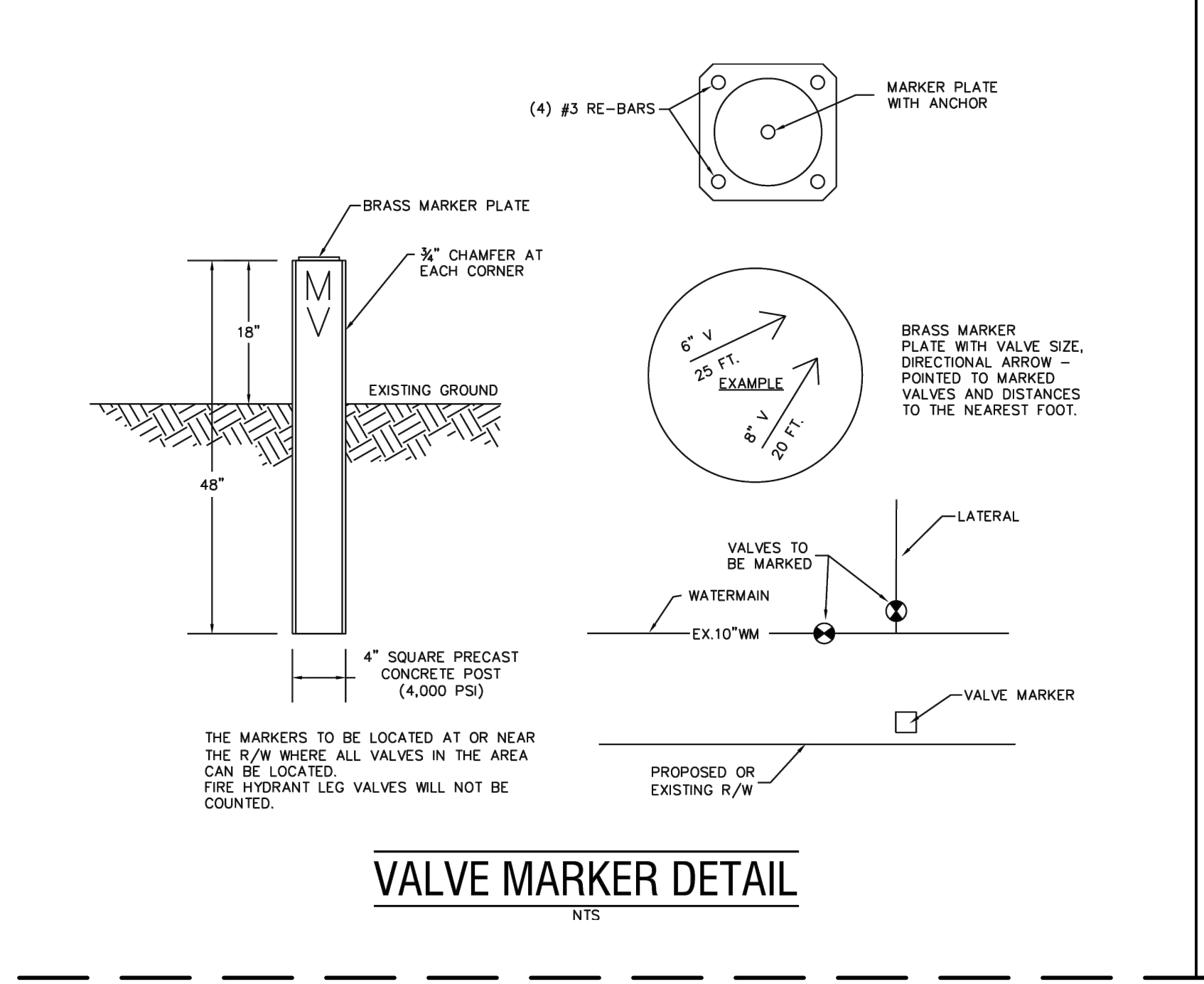
TAPPING DETAIL
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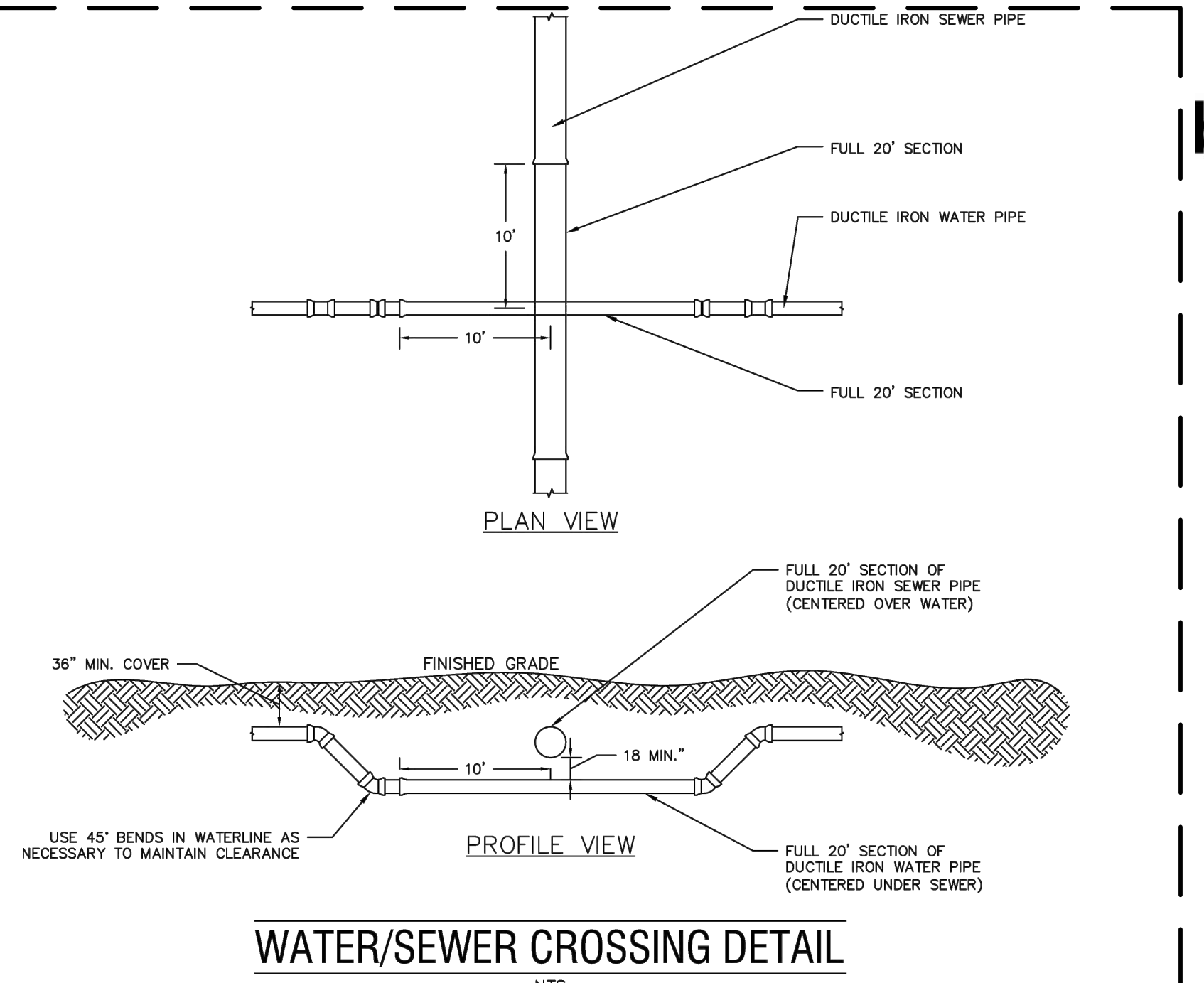
THRUST BLOCK DETAIL
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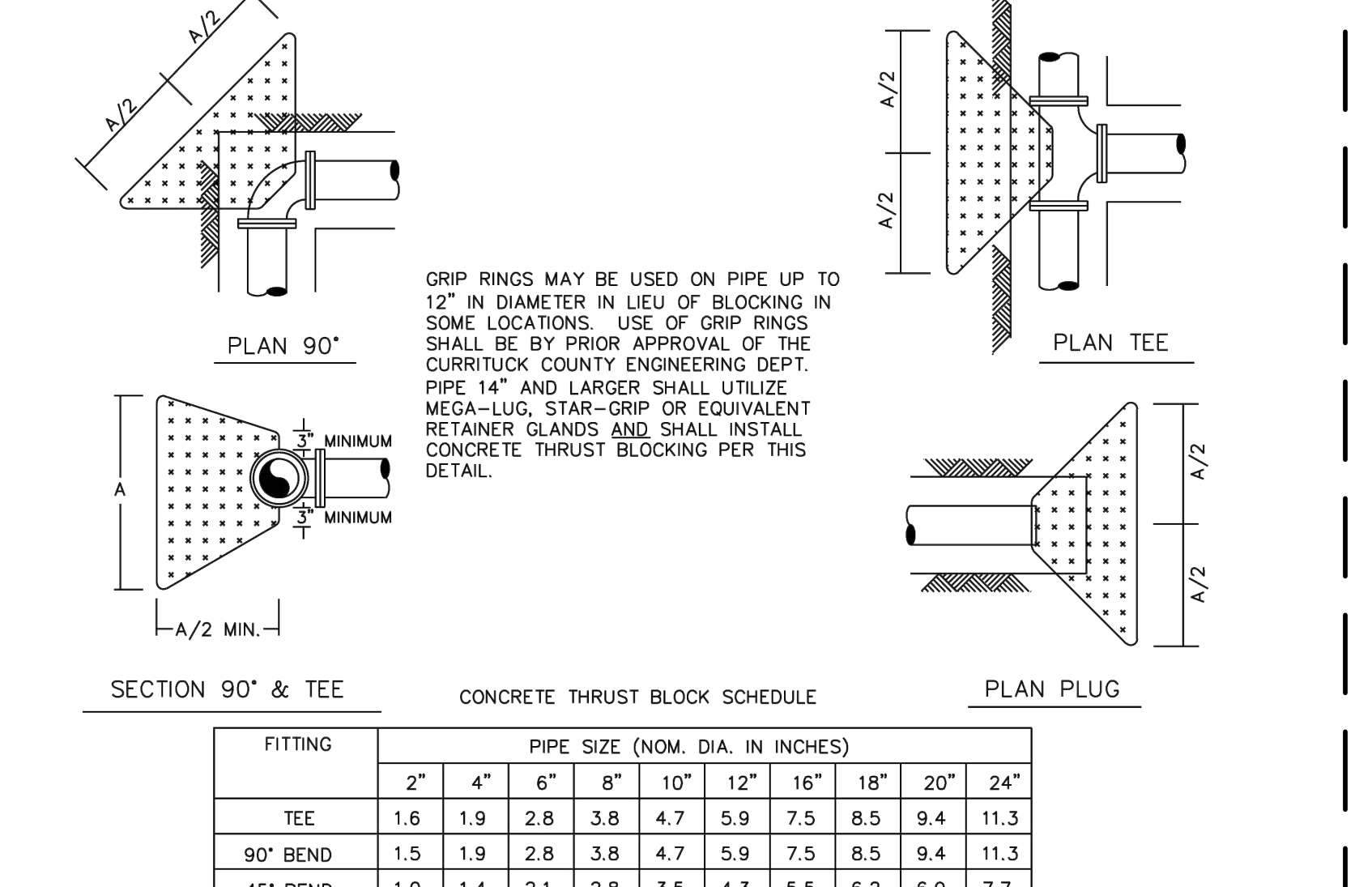
FIRE HYDRANT DETAIL
NTS



VALVE BOX
NTS



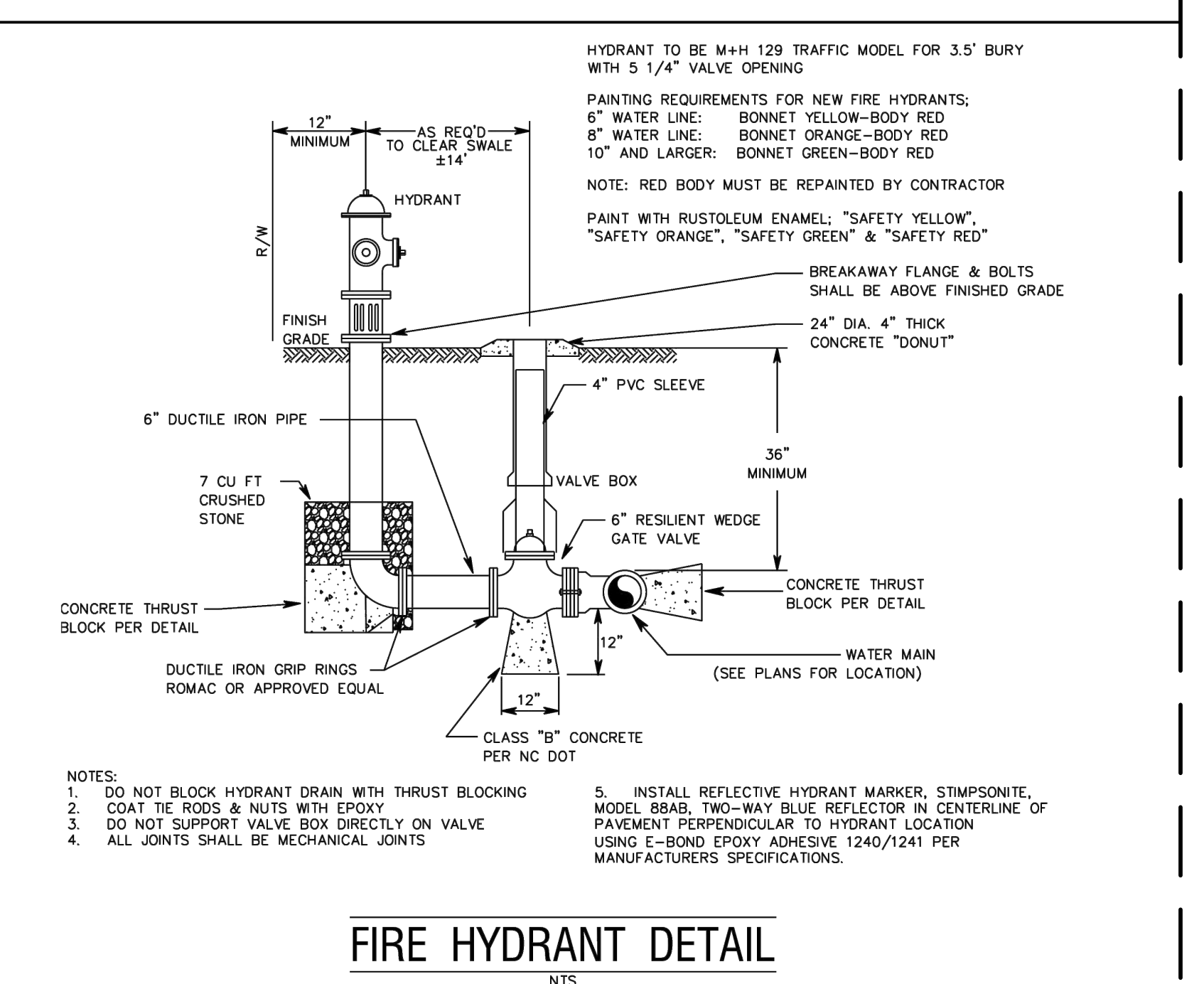
WATER/SEWER CROSSING DETAIL
NTS



SECTION 90° & TEE

FITTING	PIPE SIZE (NOM. DIA. IN INCHES)								
	2"	4"	6"	8"	10"	12"	16"	20"	24"
TEE	1.6	1.9	2.8	3.8	4.7	5.9	7.5	8.5	11.3
90° BEND	1.5	1.9	2.8	3.8	4.7	5.9	7.5	8.5	11.3
45° BEND	1.0	1.4	2.1	2.8	3.5	4.3	5.5	6.2	7.7
22 1/2° BEND	.8	1.0	1.5	2.0	2.5	3.1	4.0	4.5	5.5

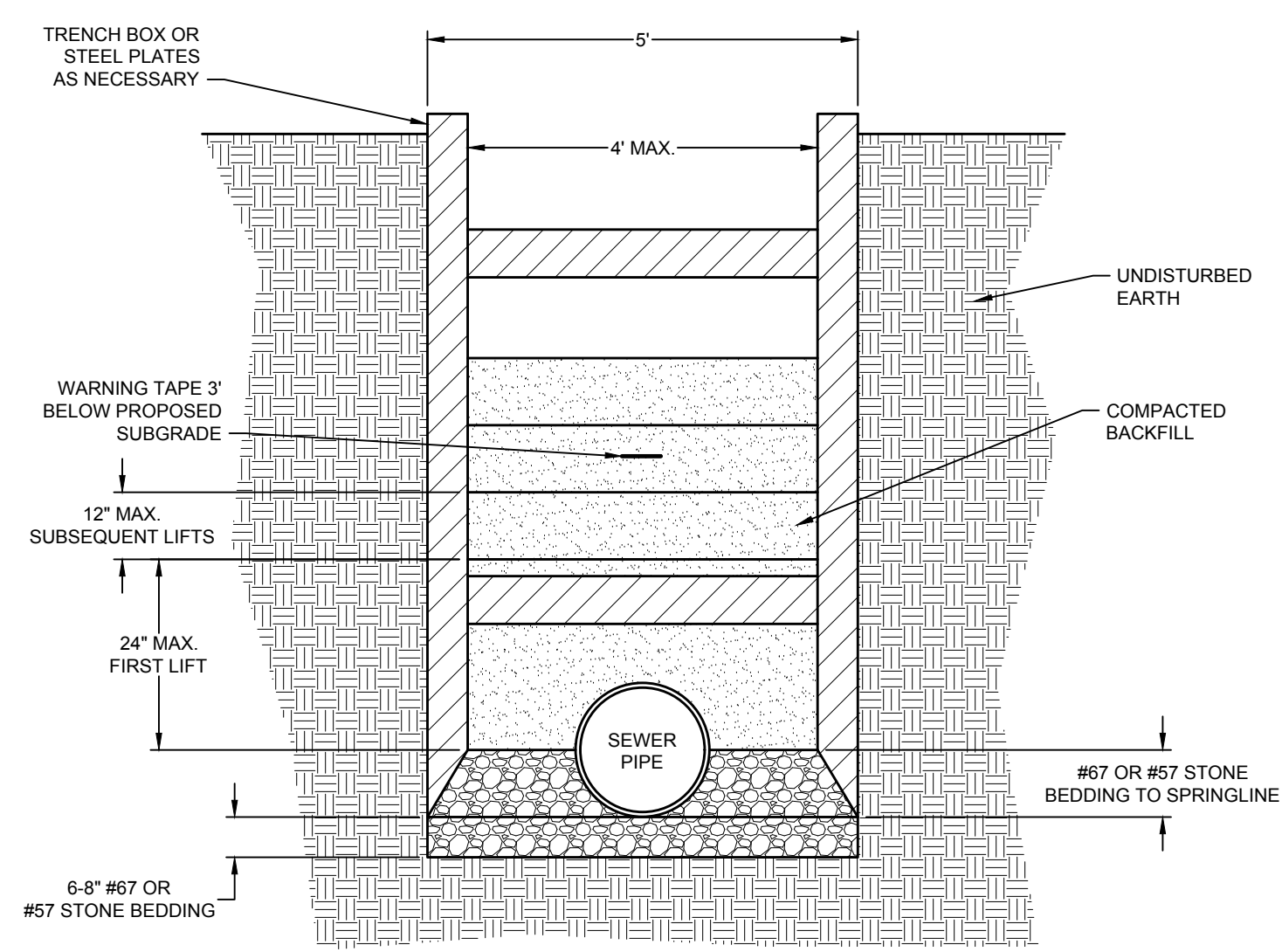
THRUST BLOCK DETAIL
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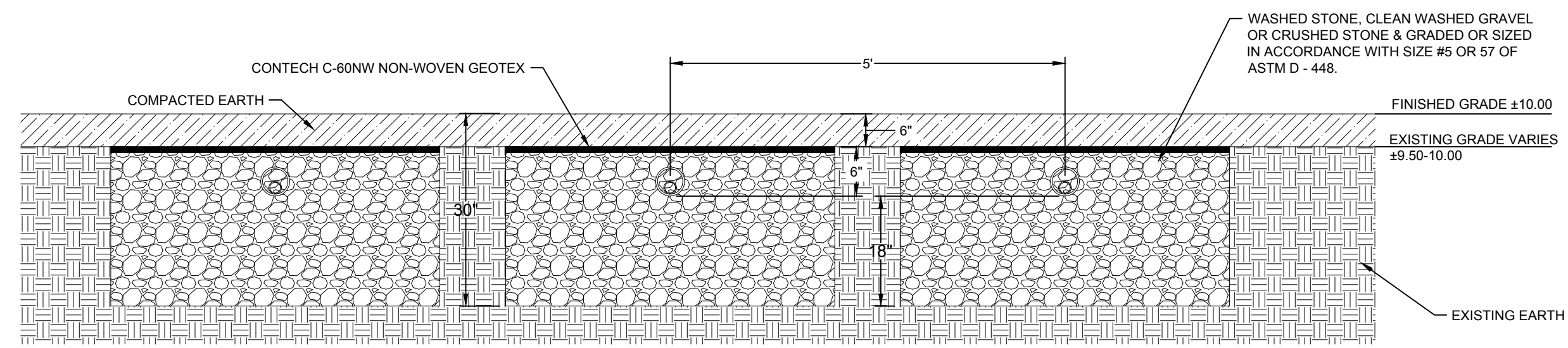
VALVE BOX
NTS

REVISIONS

NO.	DATE	DESCRIPTION

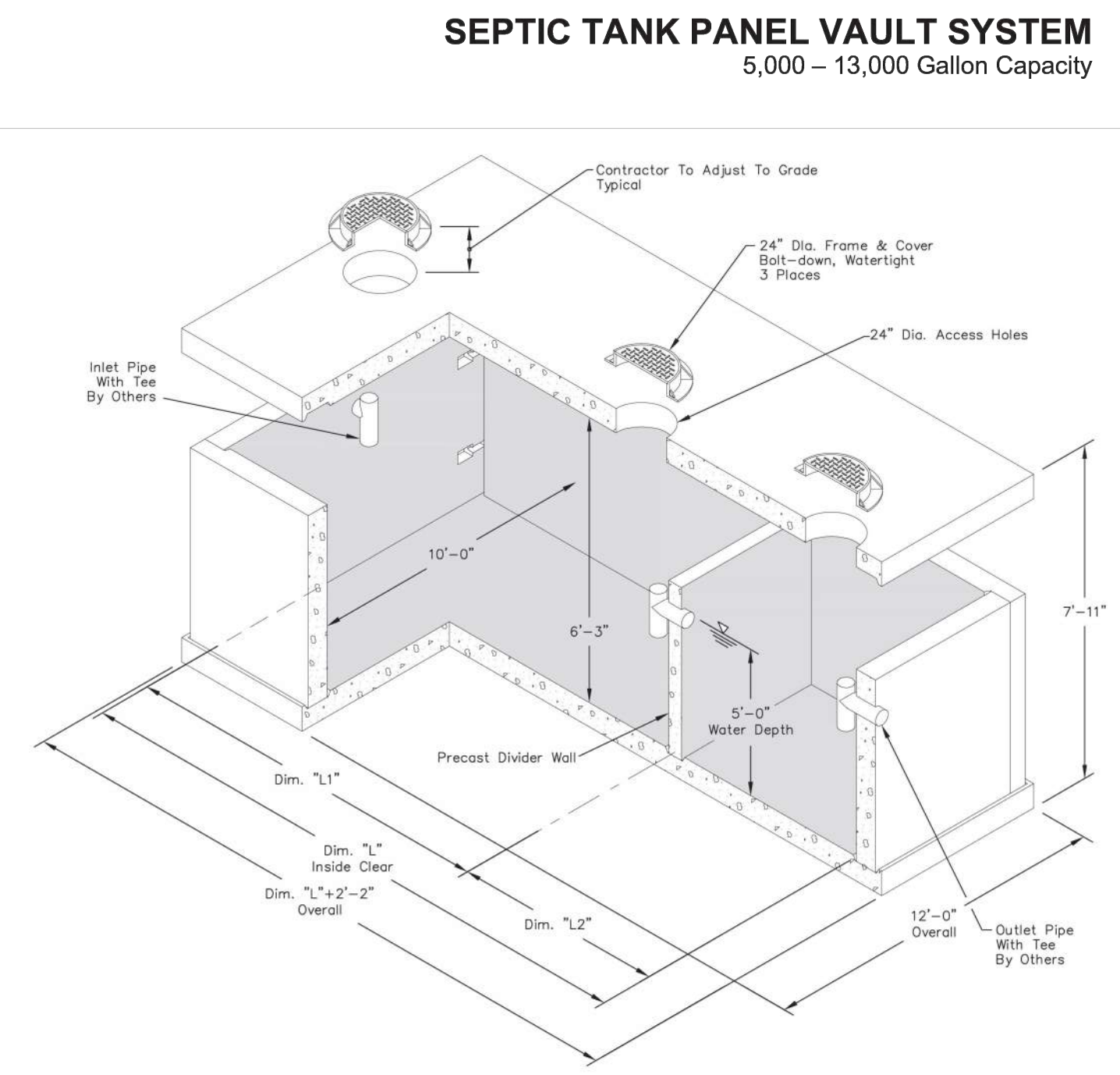


TYPICAL GRAVITY SEWER TRENCH
NO SCALE



- NOTE:
1. CONTRACTOR SHALL STRIP TOPSOIL FROM FIELD AREA AND STOCKPILE FOR REPLACEMENT.
 2. EACH TRENCH SHALL BE BACKFILLED PRIOR TO EXCAVATION OF NEXT TRENCH TO PRESERVE EXISTING SOIL BETWEEN TRENCHES.

LOW PRESSURE FIELD CROSS SECTION
NO SCALE



SEPTIC TANK SIZING CHART	
GALLONS	5000 6000 7000 8000 9000 10000 11000 12000 13000
Dim. "L1"	14'-0" 16'-6" 19'-0" 22'-0" 24'-6" 27'-0" 30'-0" 32'-6" 35'-6"
Dim. "L1"	9'-4" 11'-0" 12'-8" 14'-8" 16'-3" 18'-0" 20'-0" 21'-8" 23'-8"
Dim. "L2"	4'-8" 5'-6" 6'-4" 7'-4" 8'-2" 9'-0" 10'-0" 10'-10" 11'-10"

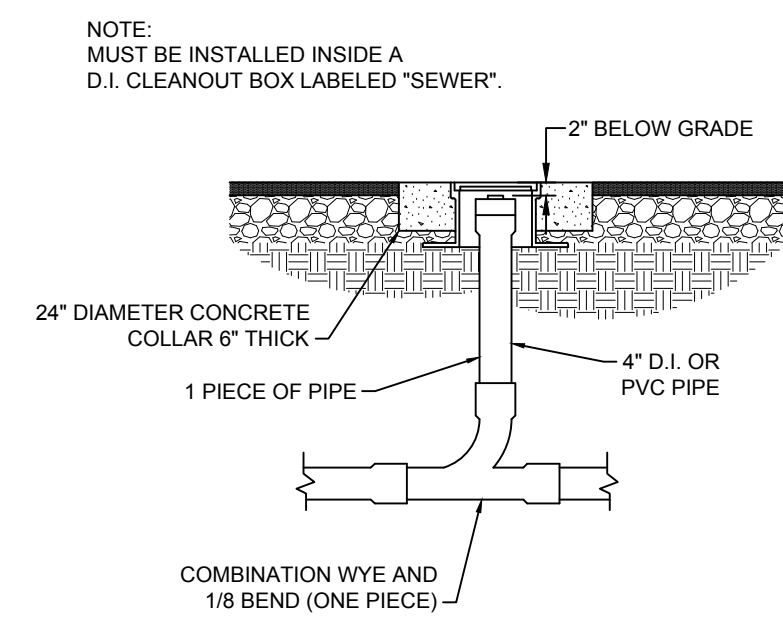
Items Shown Are Subject To Change Without Notice
Issue Date: April 2016

149

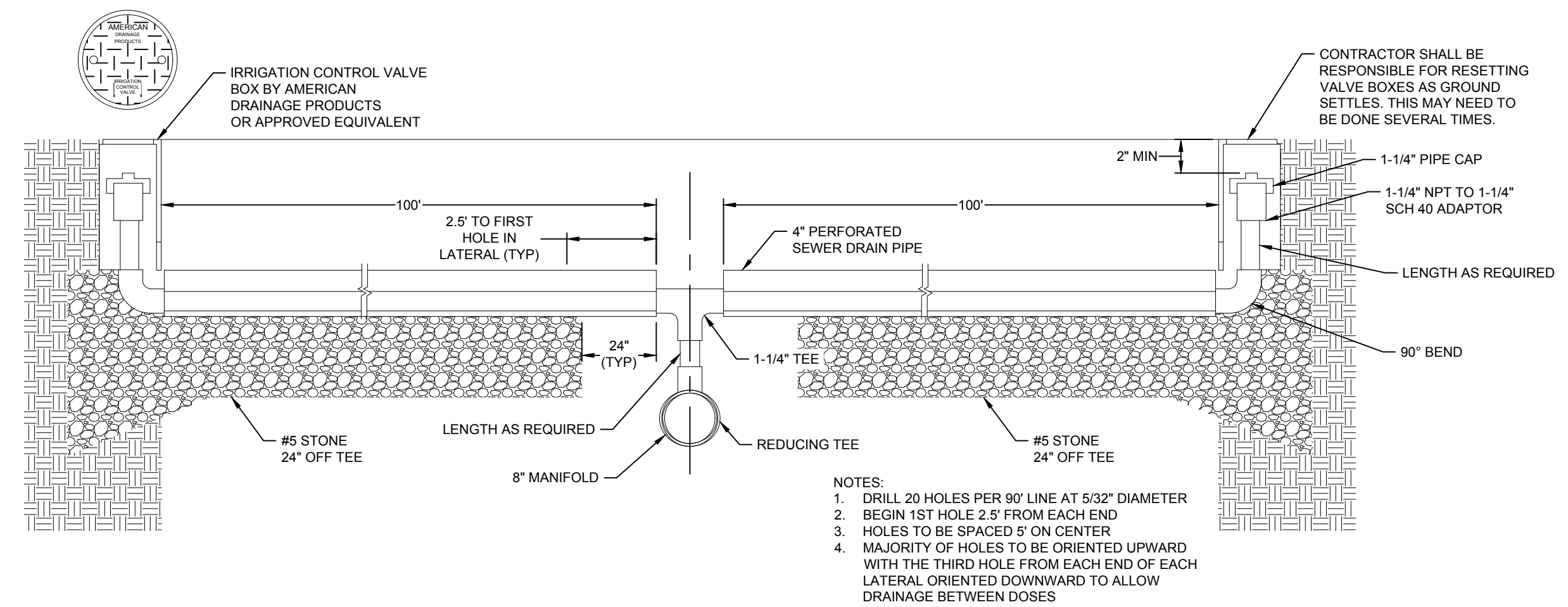
© 1992-2016 Dickcastle Precast, Inc.

- NOTES:
1. OLDCASTLE TANKS SHOWN TO REPRESENT STANDARD. APPROVED EQUALS ARE ACCEPTED.
 2. TANK SHALL BE APPROVED BY THE ON-SITE WATER PROTECTION BRANCH, ENVIRONMENTAL HEALTH SECTION OF NCDEHS.
 3. VOLUME SHALL BE AS SPECIFIED ON PLAN SHEETS
 4. TANKS SHALL BE TRAFFIC RATED.
 5. OUTLET SHALL BE EQUIPPED WITH POLYLOK PL-525 EFFLUENT FILTER (OR APPROVED EQUAL).

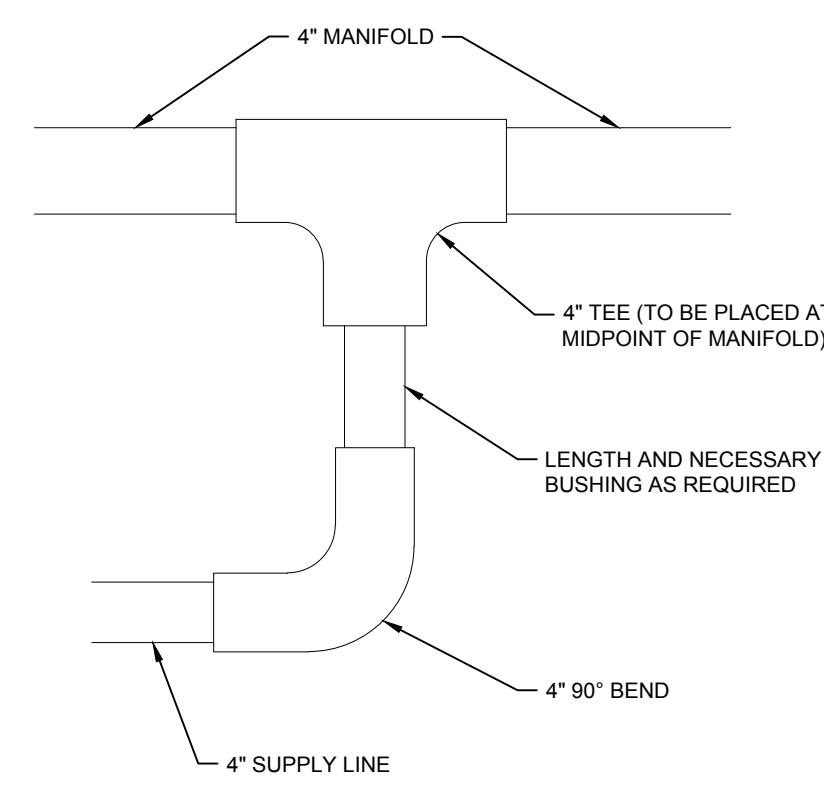
TYPICAL SEPTIC TANK
NO SCALE



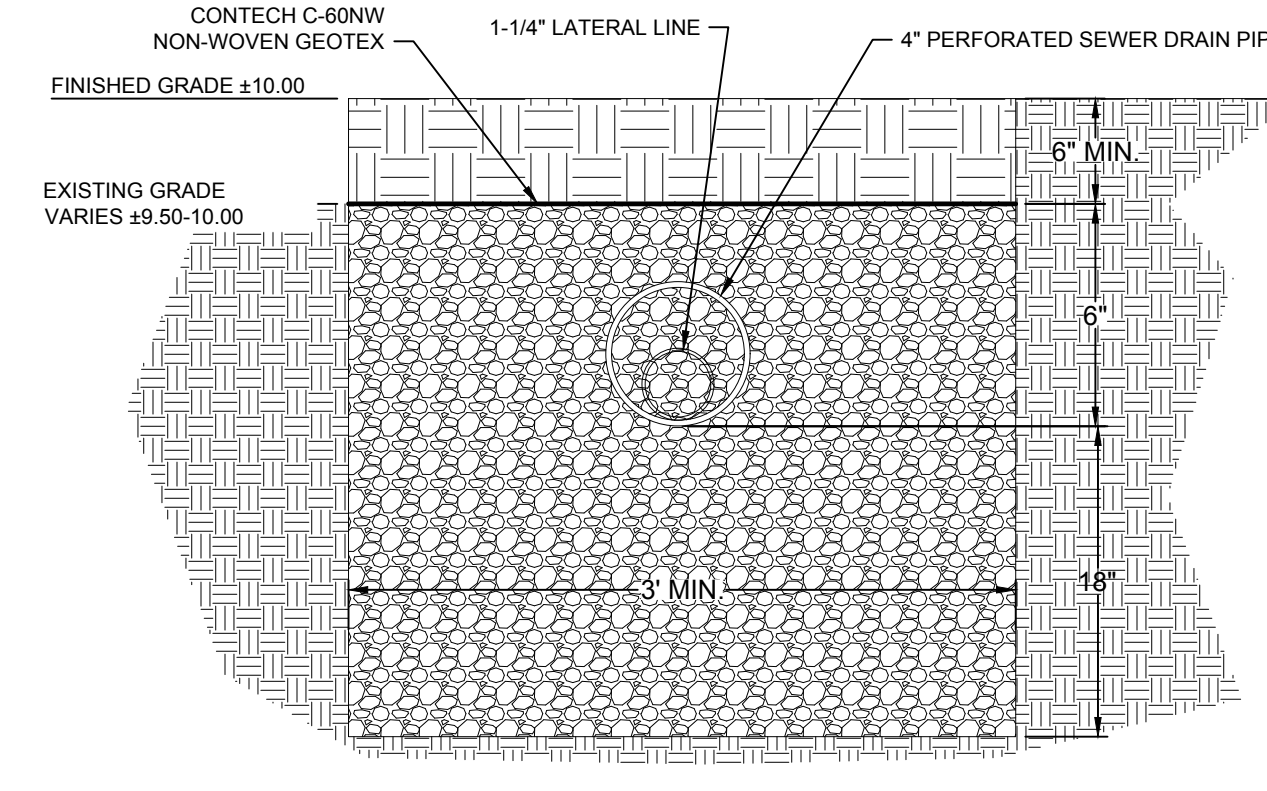
INLINE SEWER CLEANOUT



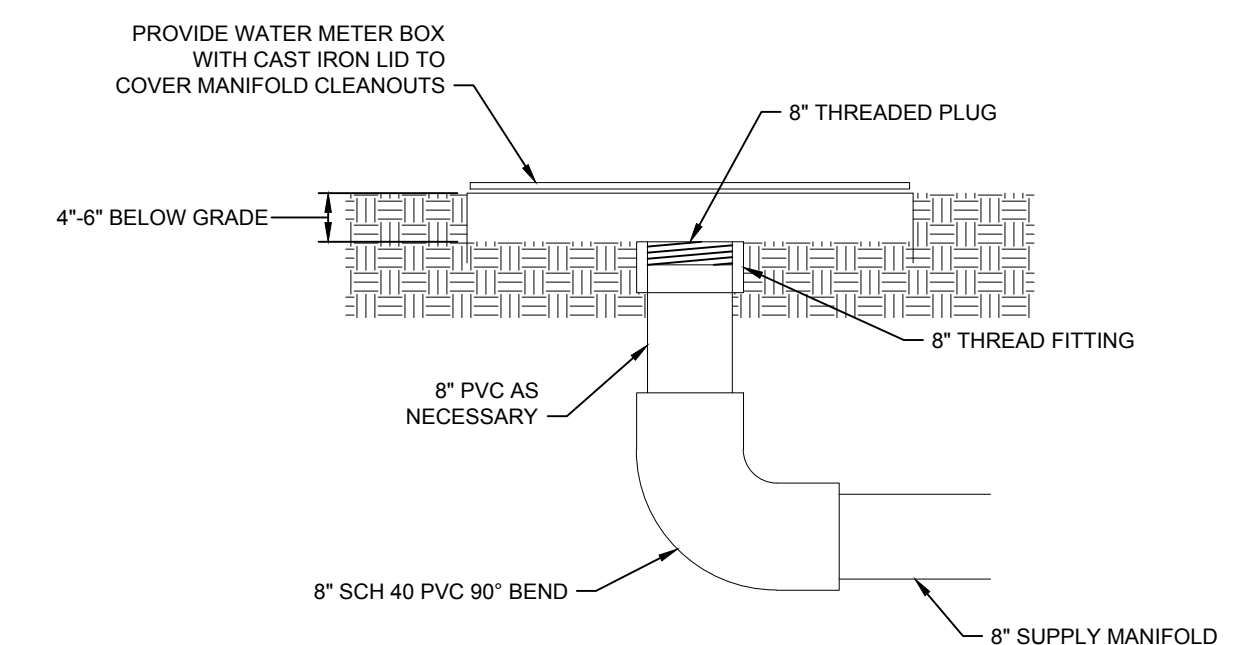
LATERAL DETAIL
NO SCALE



SUPPLY LINE TO MANIFOLD CONNECTION
NO SCALE



TYPICAL TRENCH SECTION
NO SCALE



SUPPLY MANIFOLD CLEAN-OUT
NO SCALE

boomerang DESIGN
rethink, repurpose, results

SHELBY
201 S. Washington St., Suite 200
Shelby, NC 27510
704/606-6000

CHARLOTTE
1230 W. Morehead St., Suite 214
Charlotte, NC 28208
704/731-7000

RALEIGH
6131 Falls of Neuse Rd., Suite 204
Raleigh, NC 27609
919/375-6400

LEWISTON
1070 S. Lake Dr., Suite J
Lewiston, SC 29073
803/756-0007

SUSSEX DEVELOPMENT CORPORATION

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ELEMENTARY
SCHOOL**
PROJECT TITLE

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2207
BOOMERANG DESIGN PROJECT NUMBER
05.24.2023
DRAWING RELEASE DATE

**UTILITIES
DETAILS**
SHEET TITLE
C6.7
SHEET

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ELEMENTARY
SCHOOL**
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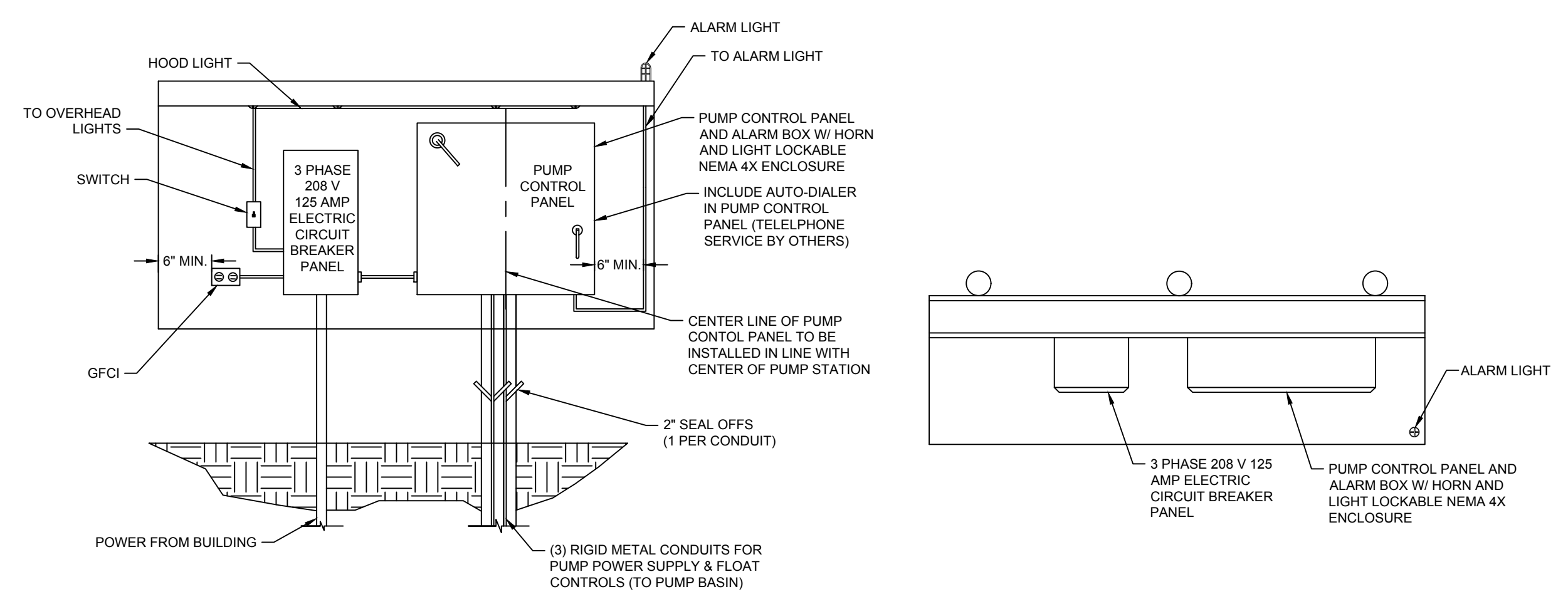
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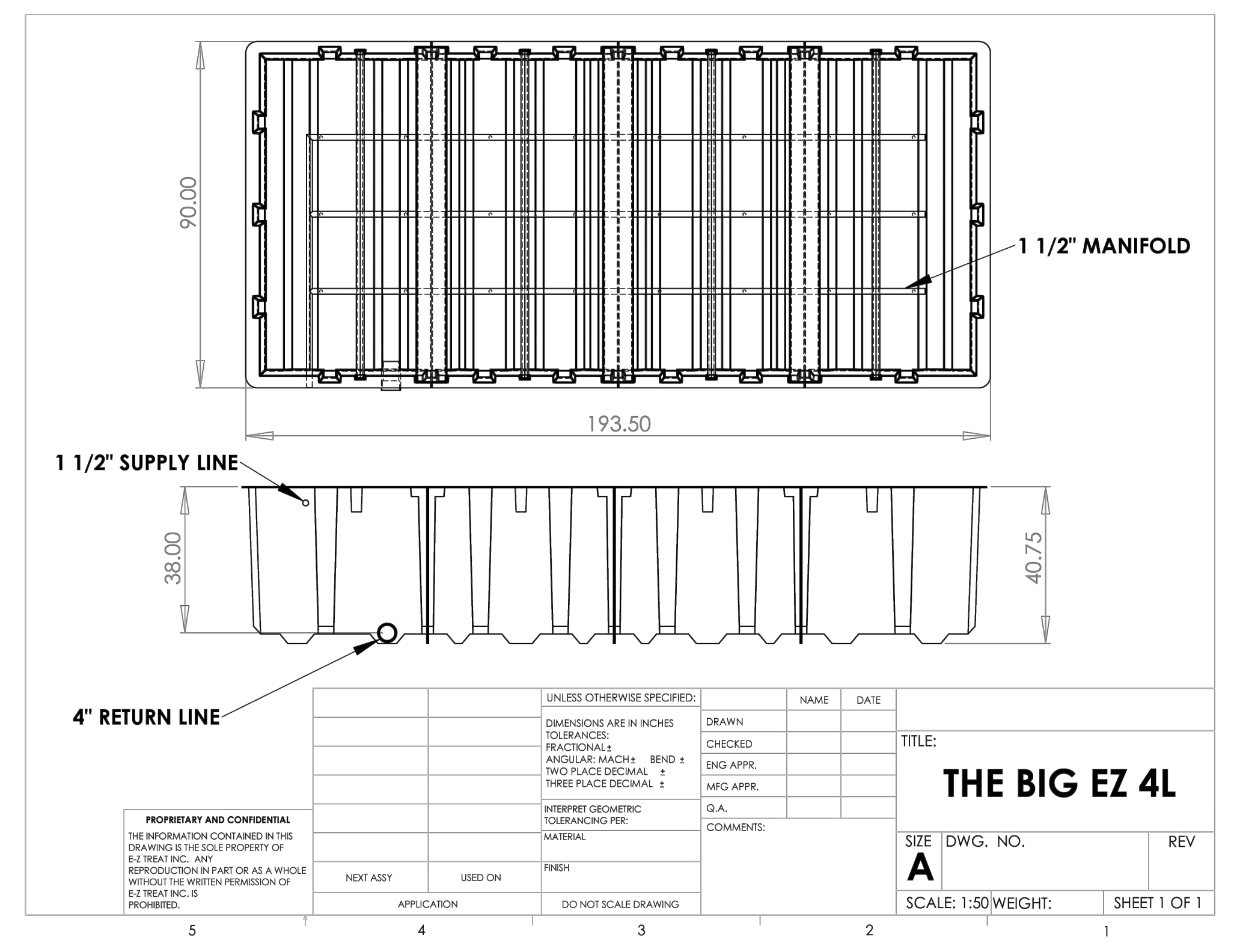
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2207
BOOMERANG DESIGN PROJECT NUMBER
05.24.2023
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**UTILITIES
DETAILS**
SHEET TITLE
C6.8
SHEET



ELECTRICAL EQUIPMENT RACK
NO SCALE



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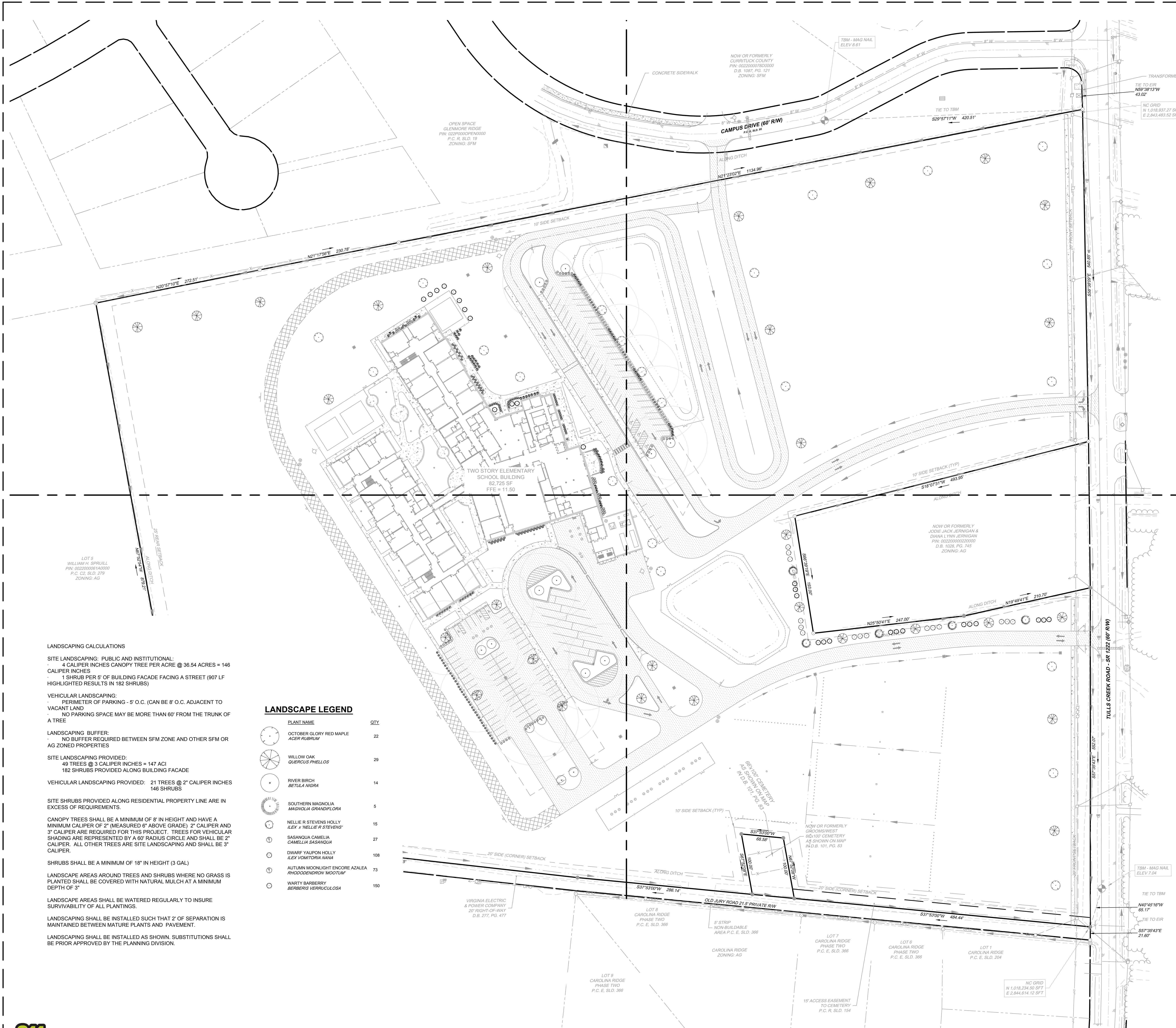
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BOOMERANG DESIGN PROJECT NUMBER
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**LANDSCAPE PLAN
OVERVIEW**

SHEET TITLE
C7.0

SHEET



LANDSCAPING CALCULATIONS

SITE LANDSCAPING: PUBLIC AND INSTITUTIONAL:
4 CALIPER INCHES CANOPY TREE PER ACRE @ 36.54 ACRES = 146 CALIPER INCHES
1 SHRUB PER 5' OF BUILDING FACADE FACING A STREET (807 LF HIGHLIGHTED RESULTS IN 182 SHRUBS)

VEHICULAR LANDSCAPING:
PERIMETER OF PARKING - 5' O.C. (CAN BE 8' O.C. ADJACENT TO VACANT LAND)
NO PARKING SPACE MAY BE MORE THAN 60' FROM THE TRUNK OF A TREE

LANDSCAPING BUFFER:
NO BUFFER REQUIRED BETWEEN SFM ZONE AND OTHER SFM OR AG ZONED PROPERTIES

SITE LANDSCAPING PROVIDED:
49 TREES @ 3 CALIPER INCHES = 147 ACI
182 SHRUBS PROVIDED ALONG BUILDING FACADE

VEHICULAR LANDSCAPING PROVIDED: 21 TREES @ 2" CALIPER INCHES
146 SHRUBS

SITE SHRUBS PROVIDED ALONG RESIDENTIAL PROPERTY LINE ARE IN EXCESS OF REQUIREMENTS.

CANOPY TREES SHALL BE A MINIMUM OF 8' IN HEIGHT AND HAVE A MINIMUM CALIPER OF 2" (MEASURED 6" ABOVE GRADE) 2" CALIPER AND 3" CALIPER ARE REQUIRED FOR THIS PROJECT. TREES FOR VEHICULAR SHADING ARE REPRESENTED BY A 60' RADIUS CIRCLE AND SHALL BE 2" CALIPER. ALL OTHER TREES ARE SITE LANDSCAPING AND SHALL BE 3" CALIPER.

SHRUBS SHALL BE A MINIMUM OF 18" IN HEIGHT (3 GAL)

LANDSCAPE AREAS AROUND TREES AND SHRUBS WHERE NO GRASS IS PLANTED SHALL BE COVERED WITH NATURAL MULCH AT A MINIMUM DEPTH OF 3"

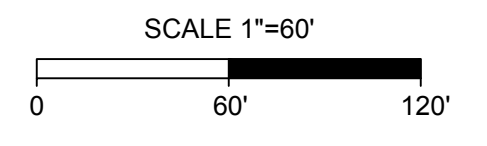
LANDSCAPE AREAS SHALL BE WATERED REGULARLY TO INSURE SURVIVABILITY OF ALL PLANTINGS.

LANDSCAPING SHALL BE INSTALLED SUCH THAT 2' OF SEPARATION IS MAINTAINED BETWEEN MATURE PLANTS AND PAVEMENT.

LANDSCAPING SHALL BE INSTALLED AS SHOWN. SUBSTITUTIONS SHALL BE PRIOR APPROVED BY THE PLANNING DIVISION.

LANDSCAPE LEGEND

PLANT NAME	QTY
OCTOBER GLORY RED MAPLE <i>ACER RUBRUM</i>	22
WILLOW OAK <i>QUERCUS PHELLOS</i>	29
RIVER BIRCH <i>BETULA NIGRA</i>	14
SOUTHERN MAGNOLIA <i>MAGNOLIA GRANDIFLORA</i>	5
NELLIE STEVENS HOLLY <i>ILEX X 'NELLIE STEVENS'</i>	15
SASANQUA CAMELIA <i>CAMELLIA SASANQUA</i>	27
DWARF YAUPON HOLLY <i>ILEX VOMITORIA NANA</i>	108
AUTUMN MOONLIGHT ENCORE AZALEA <i>RHOODODENDRON 'MOOTUM'</i>	73
WARTY BARBERY <i>Berberis Verruculosa</i>	150



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**TULLS CREEK
ELEMENTARY
SCHOOL**
PROJECT TITLE

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2207
BOOMERANG DESIGN PROJECT NUMBER
05.24.2023
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**LANDSCAPE
PLAN**

SHEET TITLE
C7.1

SHEET



OPEN SPACE
GLENMORE RIDGE
PKWY 022500005000000
P.C. R. SLD. 19
ZONING: SPM

TWO STORY ELEMENTARY
SCHOOL BUILDING
82,725 SF
FFE = 11.50

LOT 5
WILLIAM H. SPRUELL
N: 0222000061A0000
P.C. C2, SLD. 279
ZONING: AG



SCALE 1"=30'
0 30' 60'

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ELEMENTARY
SCHOOL**
PROJECT TITLE

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NO.	DATE	DESCRIPTION

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PROJECT PHASE

2207

BOOMERANG DESIGN PROJECT NUMBER

05.24.2023

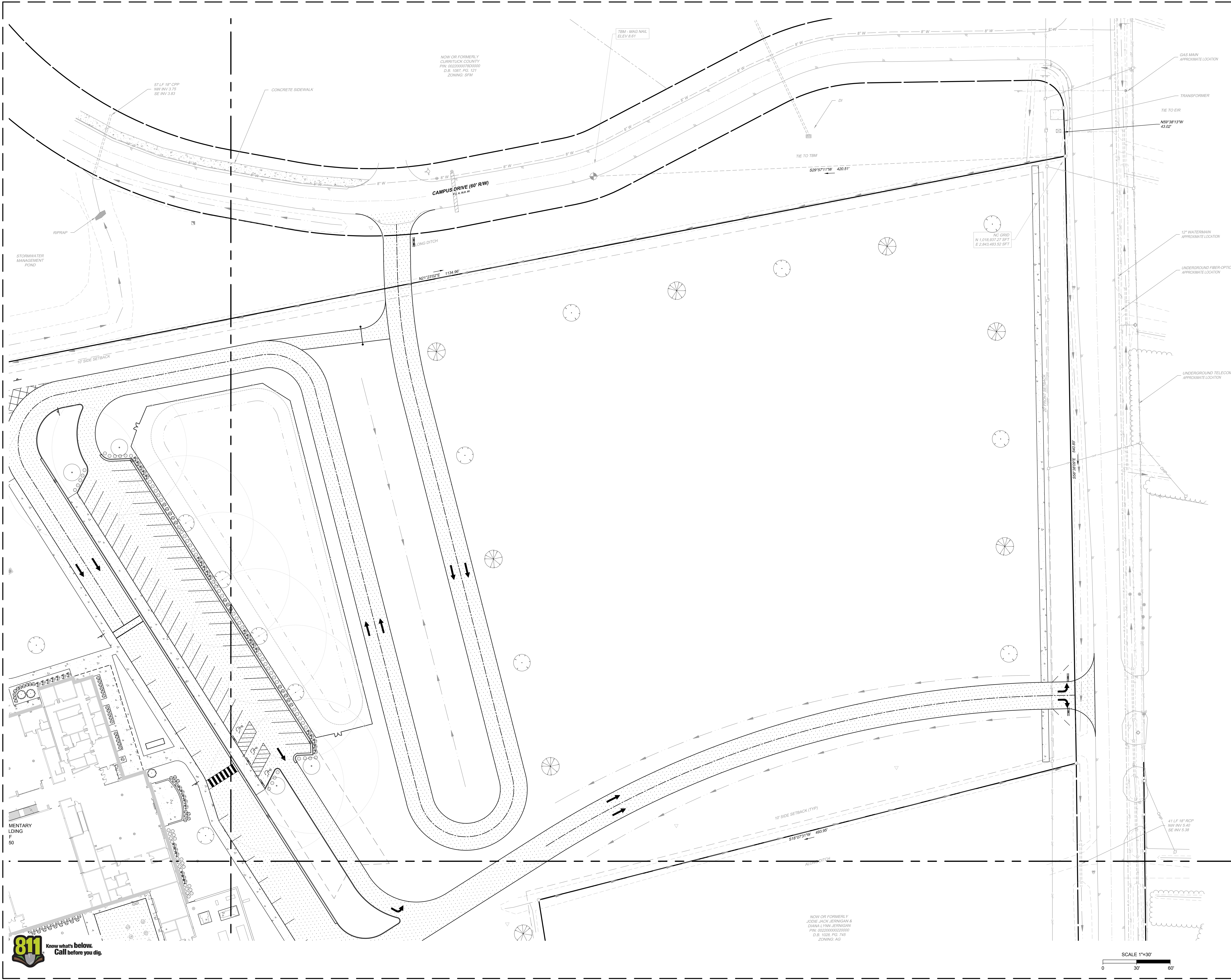
DRAWING RELEASE DATE

**LANDSCAPE
PLAN**

SHEET TITLE

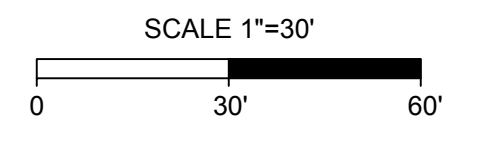
C7.2

SHEET



NOW OR FORMERLY
CURRITUCK COUNTY
PIN: 0022000079000000
D.B. 1087, PG. 121
ZONING: SP4

NOW OR FORMERLY
JODIE JACK, JERINIGAN &
DIANNA LYNN JERINIGAN
PIN: 0022000002000000
D.B. 1028, PG. 245
ZONING: AG



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**TULLS CREEK
ELEMENTARY
SCHOOL**
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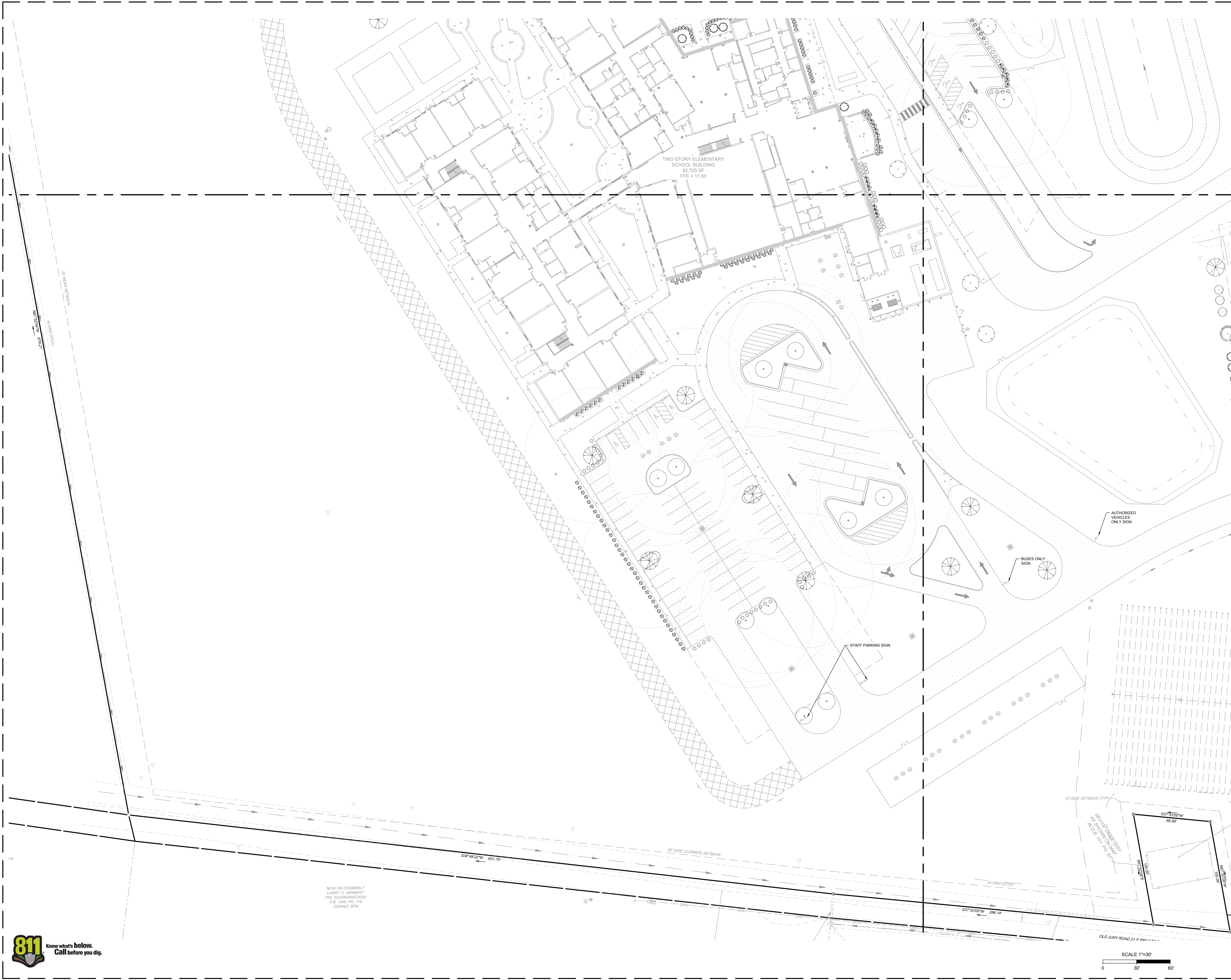
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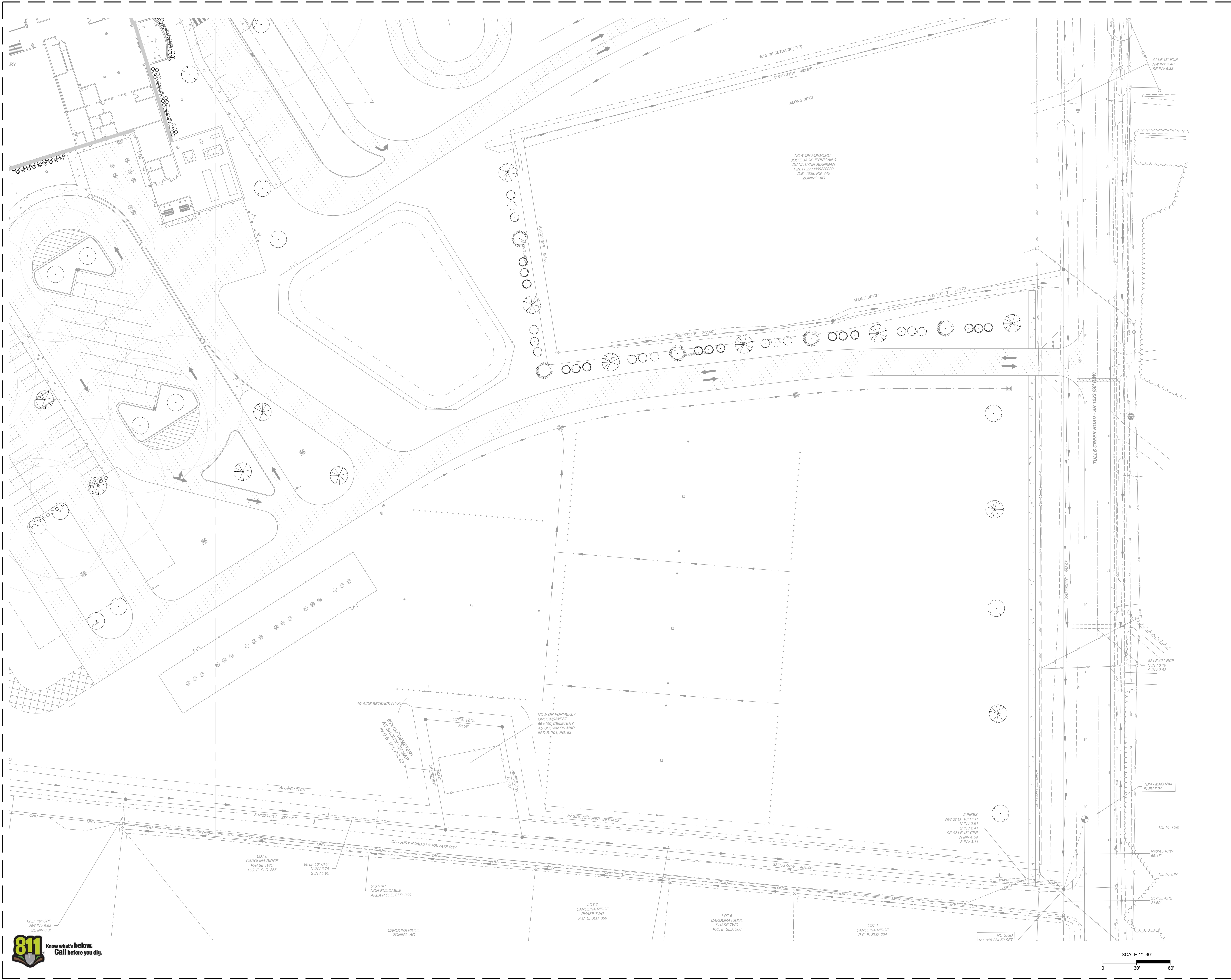
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BOOMERANG DESIGN PROJECT NUMBER
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**LANDSCAPE
PLAN**

SHEET TITLE
C7.3

SHEET





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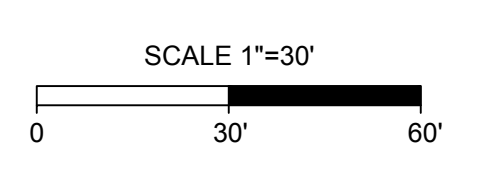
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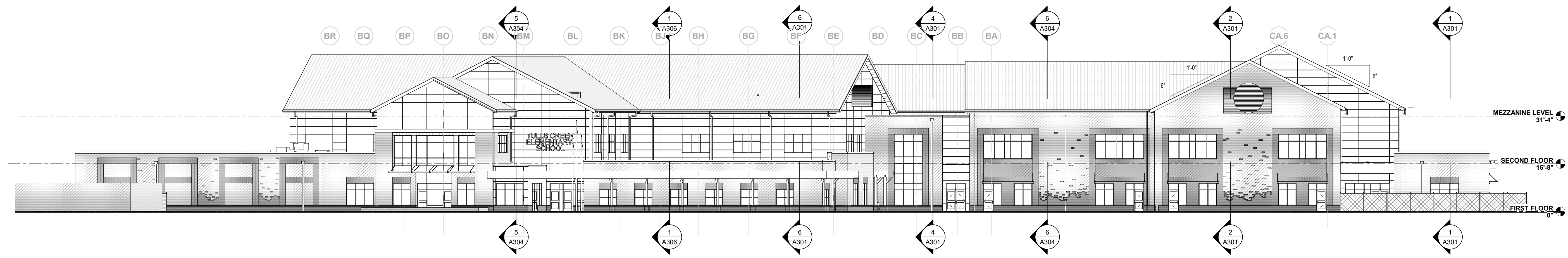
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PROJECT PHASE
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BOOMERANG DESIGN PROJECT NUMBER
05.24.2023
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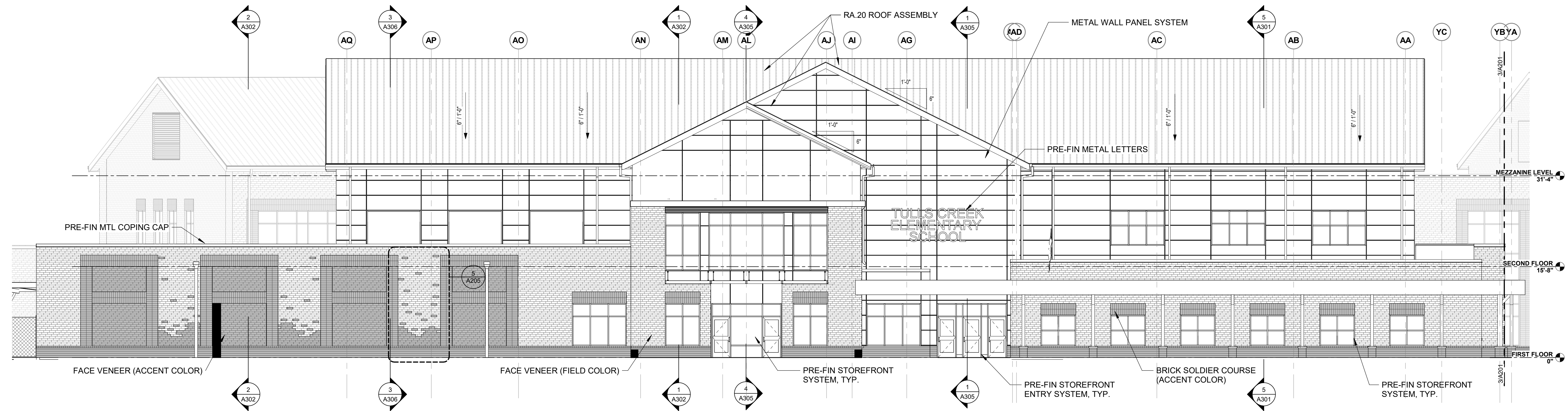
**LANDSCAPE
PLAN**

SHEET TITLE
C7.4

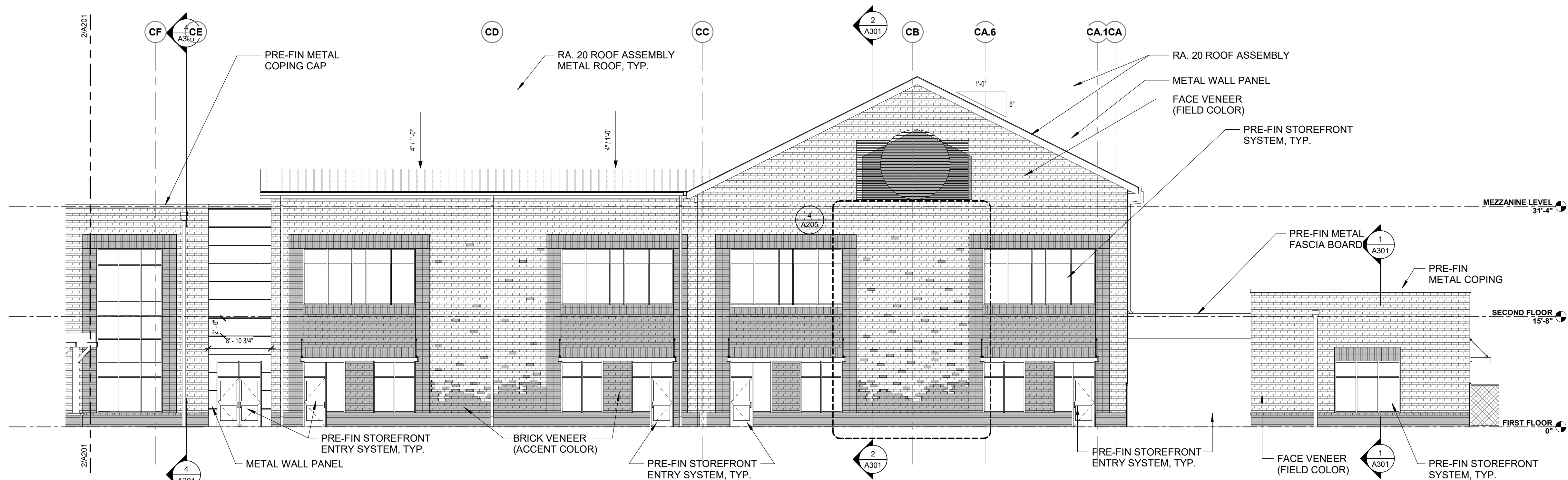




1 OVERALL NORTH ELEVATION - BLDG A
1/16" = 1'-0"



2 NORTH EAST ELEVATION - BLDG A
1/8" = 1'-0"



3 NORTH ELEVATION - BLDG A
1/8" = 1'-0"

**TULLS CREEK
ELEMENTARY
SCHOOL**
PROJECT TITLE

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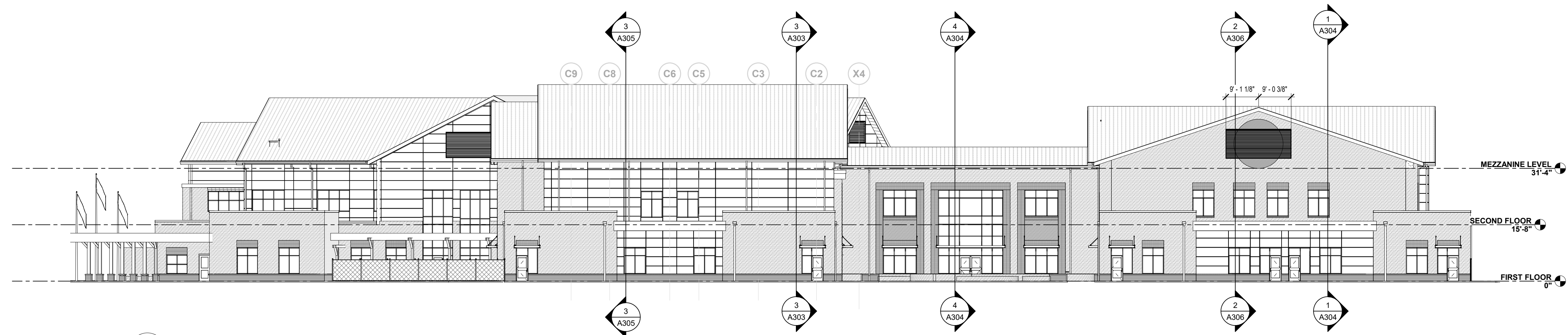
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BOOMERANG DESIGN PROJECT NUMBER
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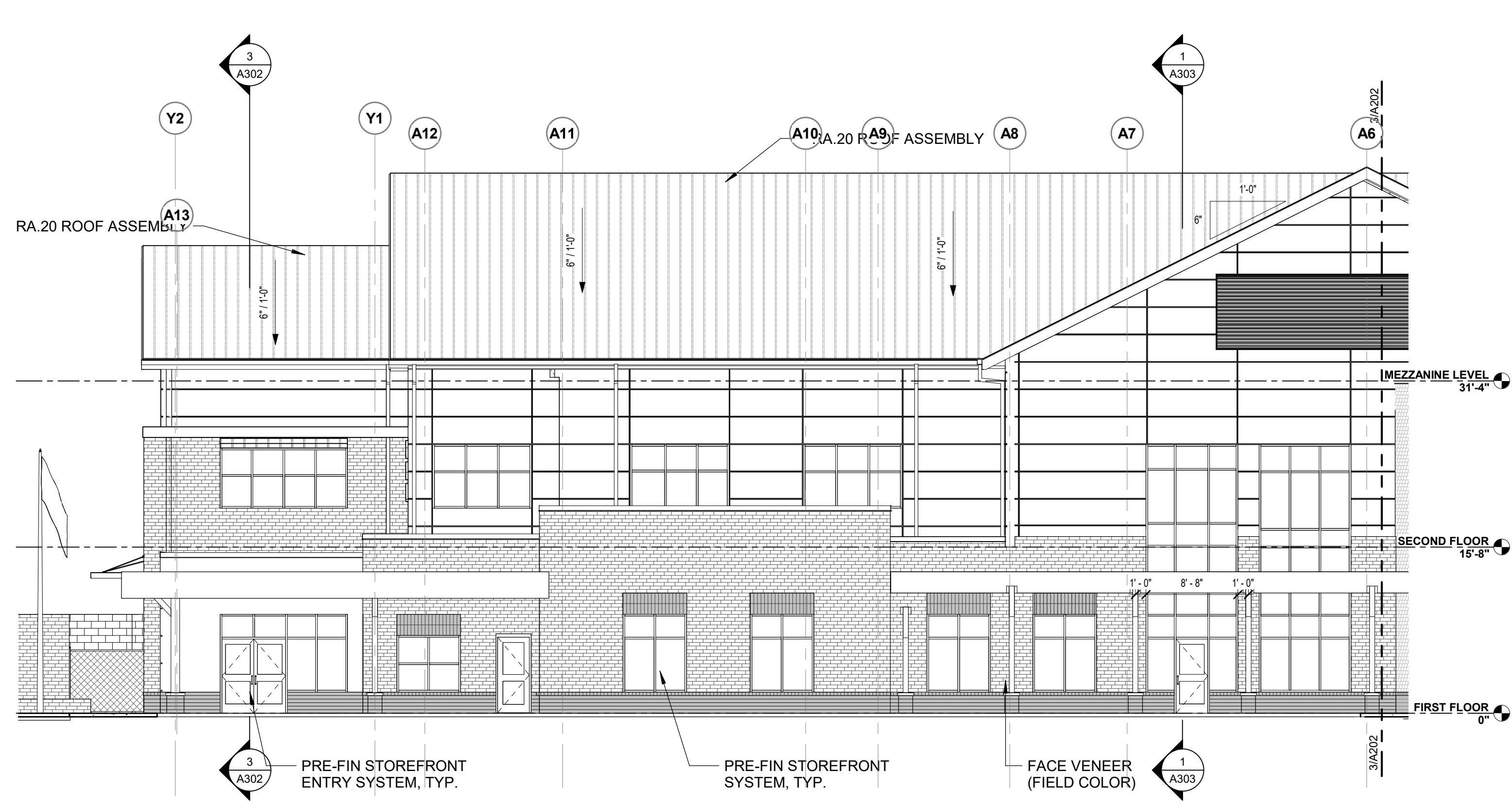
**BUILDING ELEVATIONS
- BLDG A - NORTH**
SHEET TITLE

A201

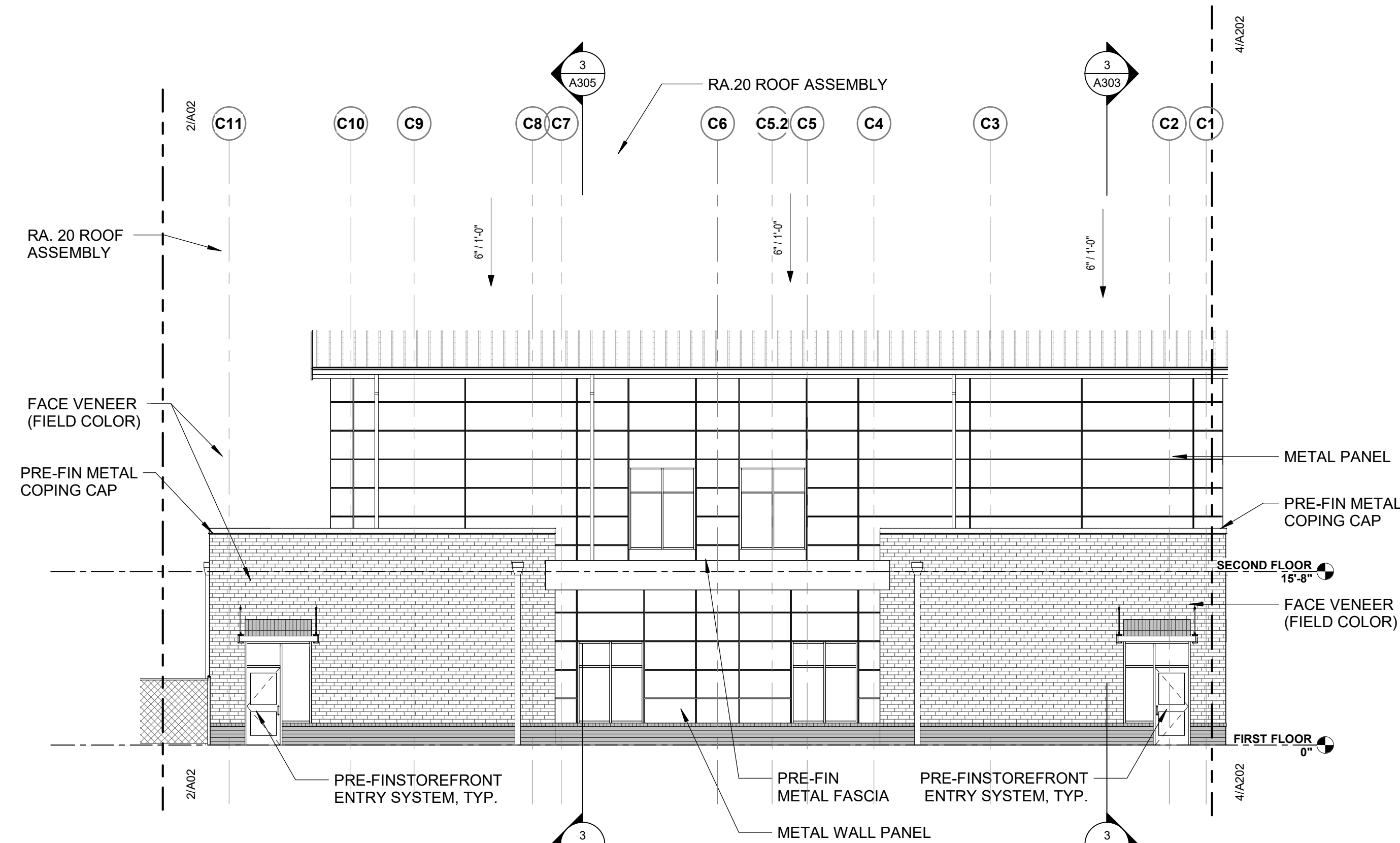
SHEET



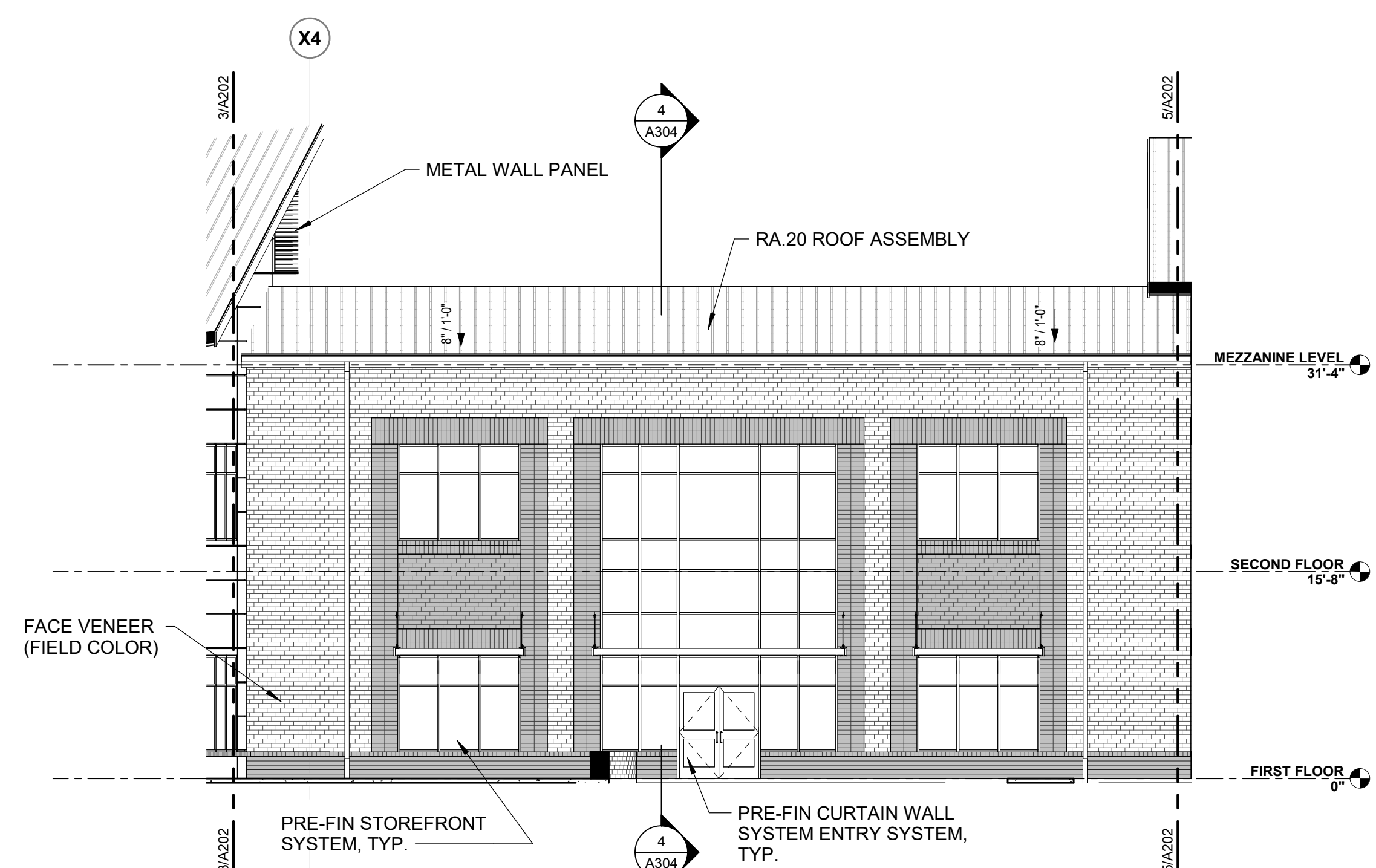
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1/16" = 1'-0"



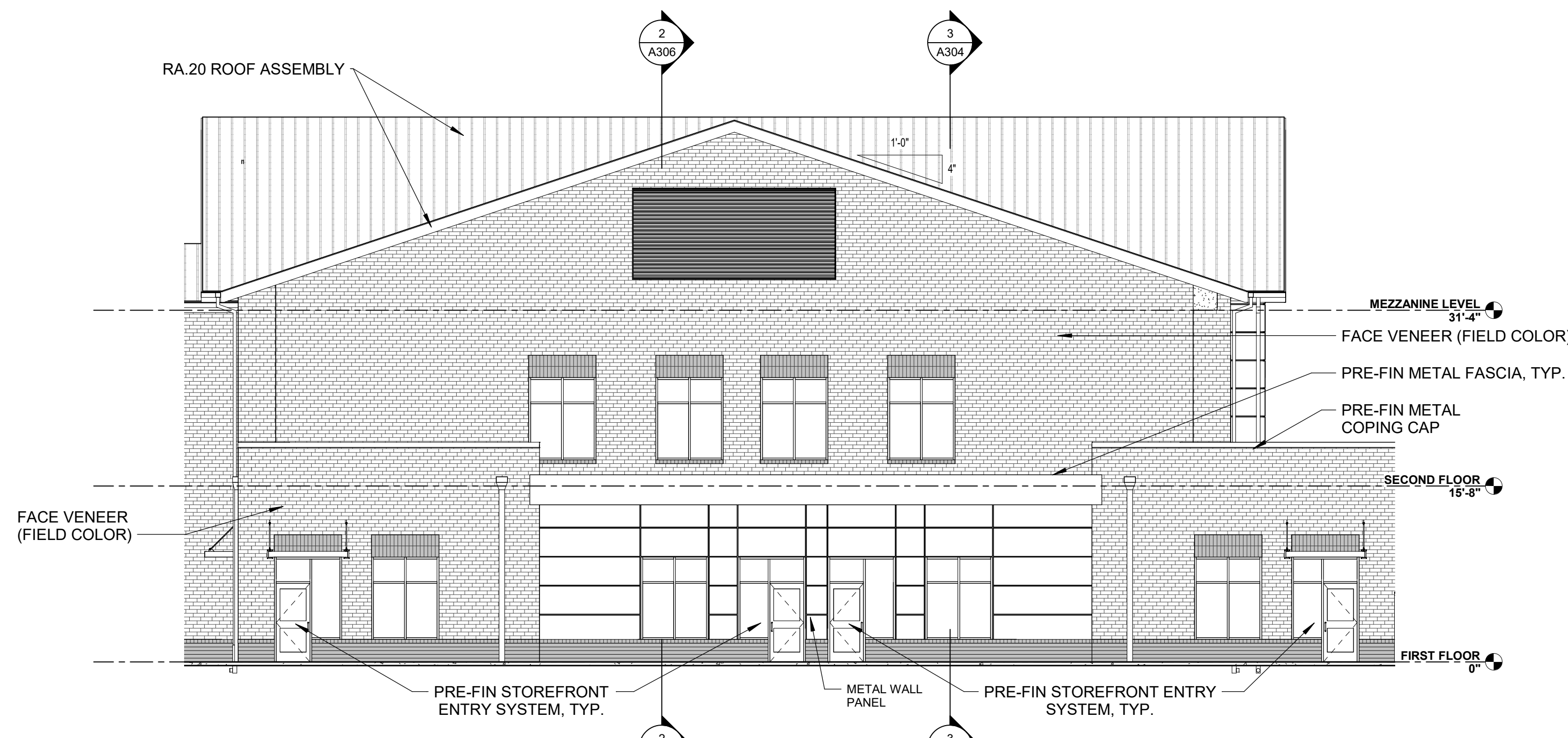
2 NORTH WEST ELEVATION - BLDG A
1/8" = 1'-0"



3 WEST ELEVATION - BLDG A
1/8" = 1'-0"



4 WEST ELEVATION - CONNECTOR
1/8" = 1'-0"



5 WEST ELEVATION BLDG B
1/8" = 1'-0"

**TULLS CREEK
ELEMENTARY
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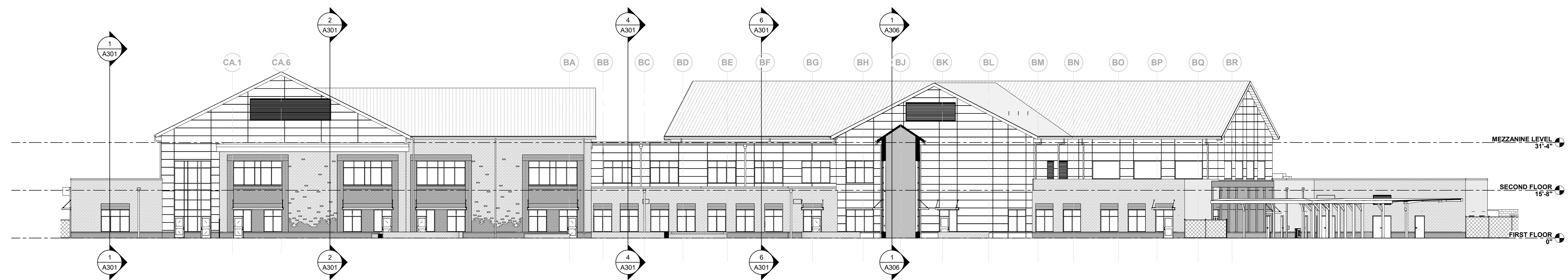
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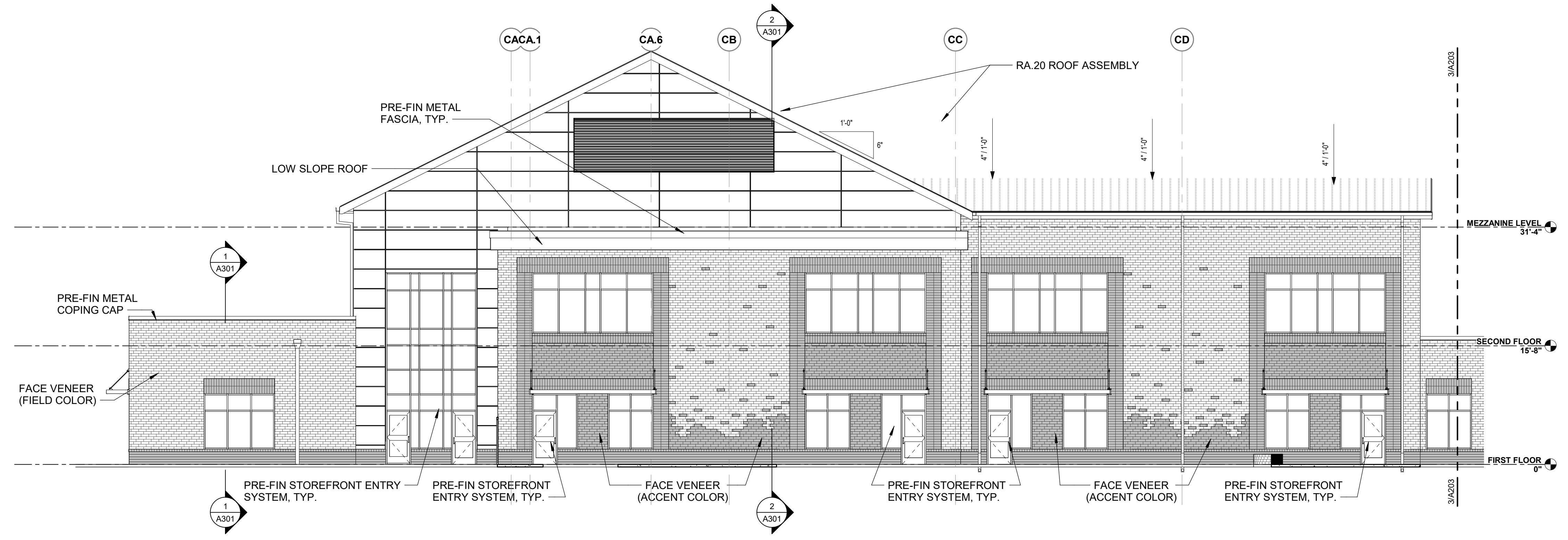
**BUILDING ELEVATIONS
- WEST**
SHEET TITLE

A202
SHEET

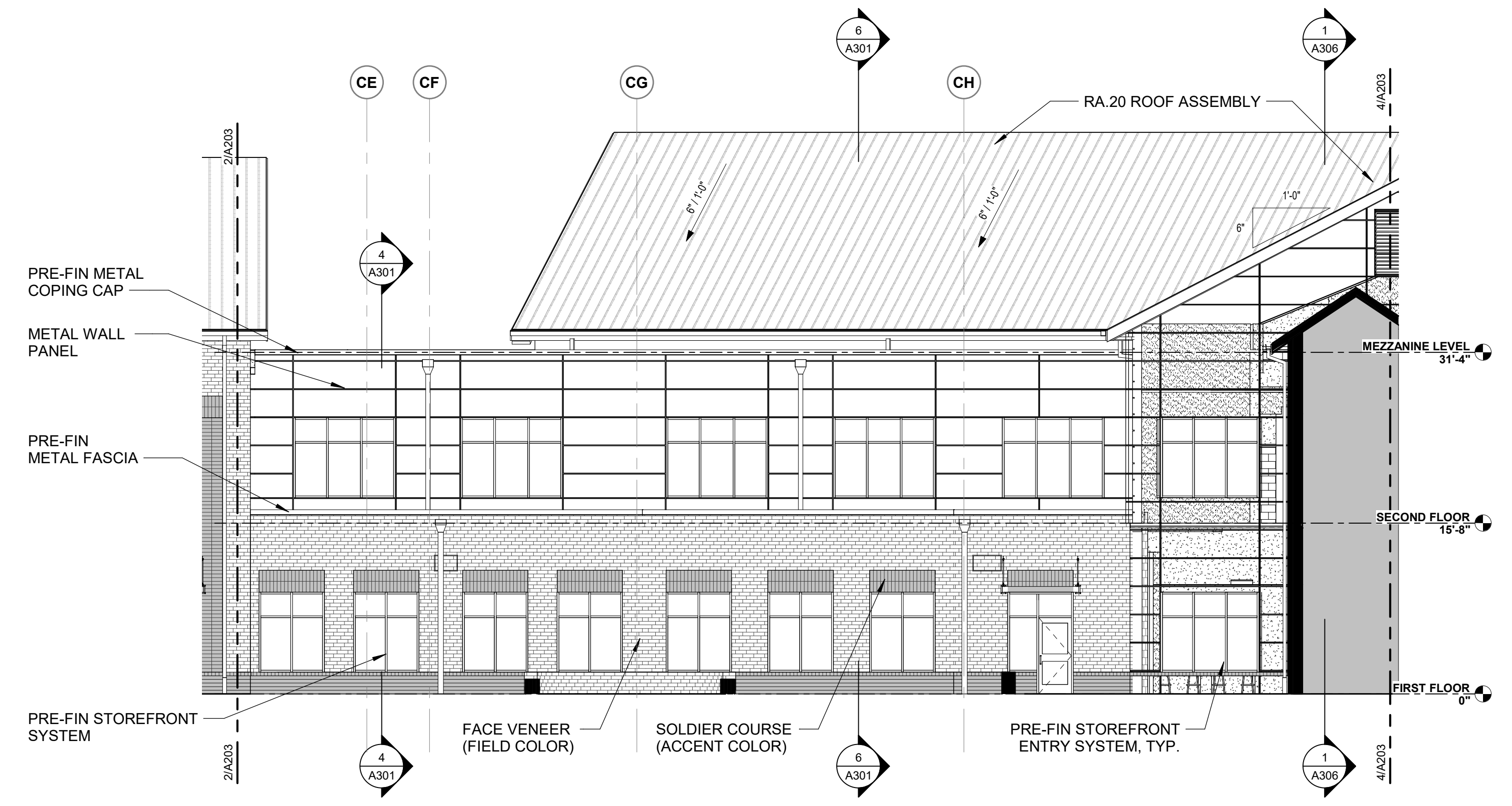
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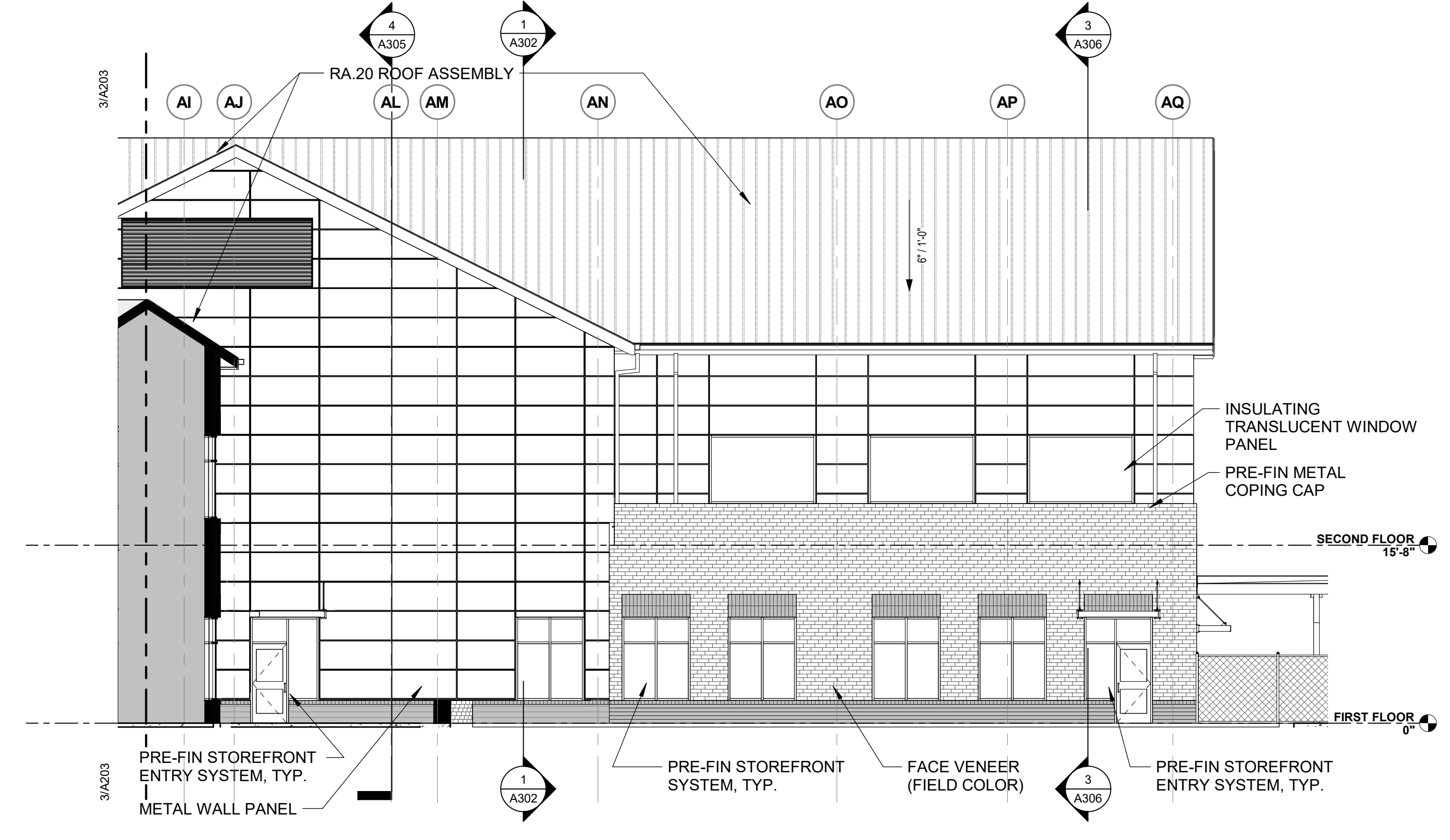
1 OVERALL SOUTH ELEVATION - BLDG A
1/16" = 1'-0"



2 SOUTH ELEVATION - BLDG A
1/8" = 1'-0"



3 SOUTH ELEVATION - BLDG A @ CONNECTOR
1/8" = 1'-0"



4 SOUTH WEST ELEVATION - BLDG A
1/8" = 1'-0"

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ELEMENTARY
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PROJECT TITLE

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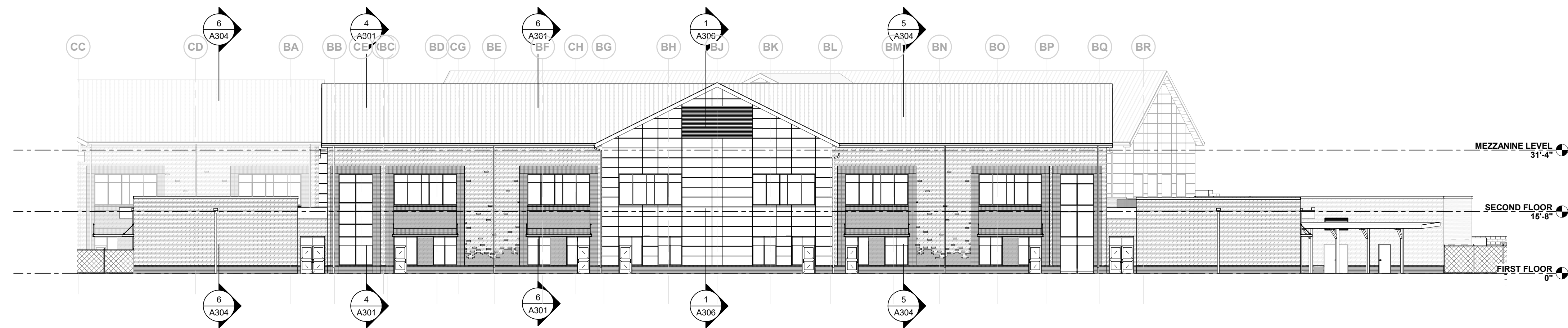
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DRAWING RELEASE DATE

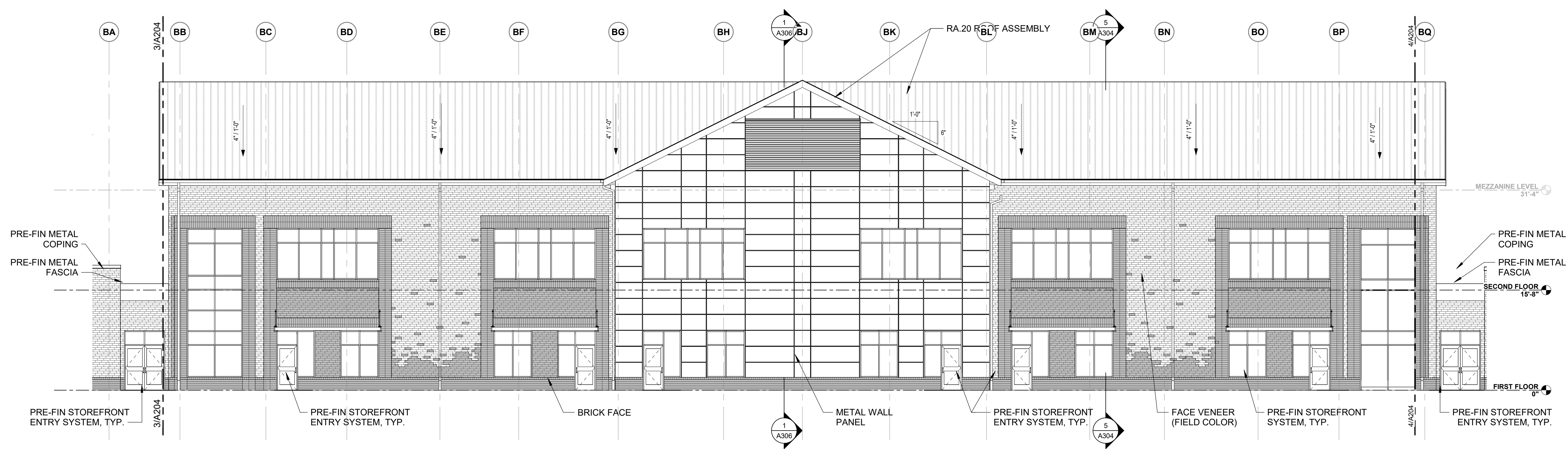
**BUILDING ELEVATIONS
- BLDG A - SOUTH**
SHEET TITLE

A203
SHEET

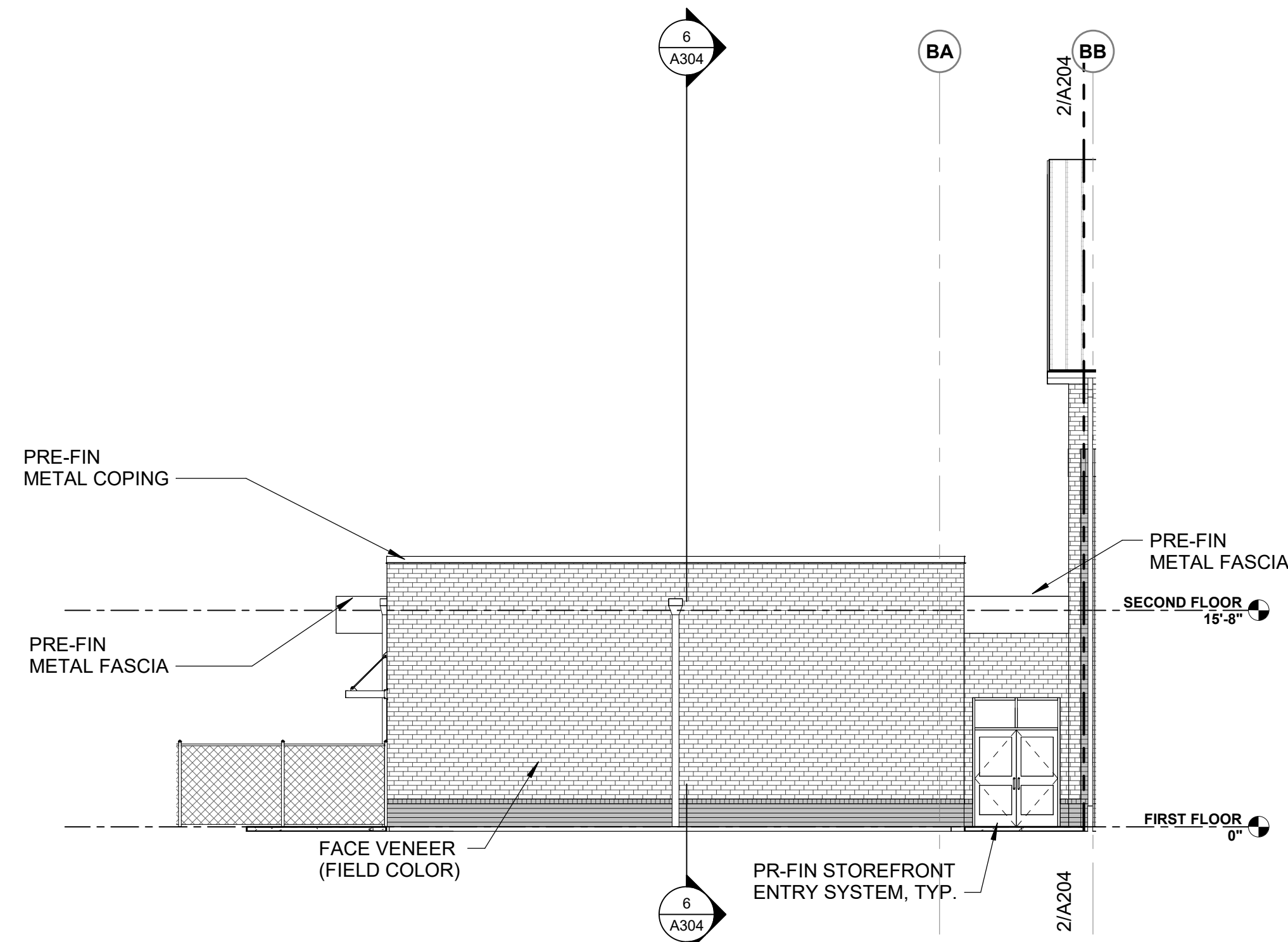
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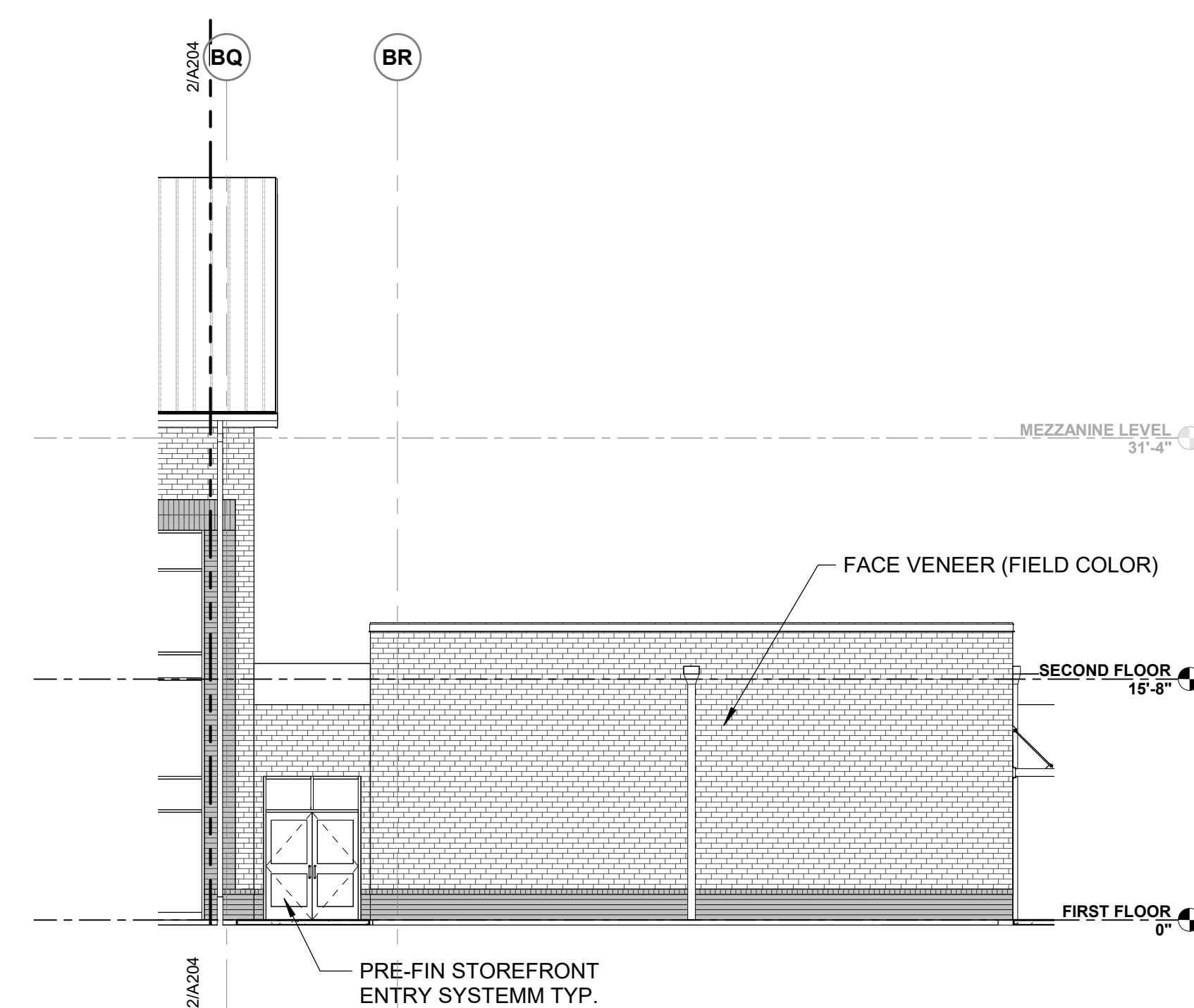
1 OVERALL SOUTH ELEVATION - BLDG B
1/16" = 1'-0"



2 SOUTH ELEVATION - BLDG B
1/8" = 1'-0"



3 SOUTH ELEVATION - BLDG B @ FIRST GRADE
1/8" = 1'-0"



4 SOUTH ELEVATION - BLDG B @ SECOND GRADE
1/8" = 1'-0"

**TULLS CREEK
ELEMENTARY
SCHOOL**
PROJECT TITLE

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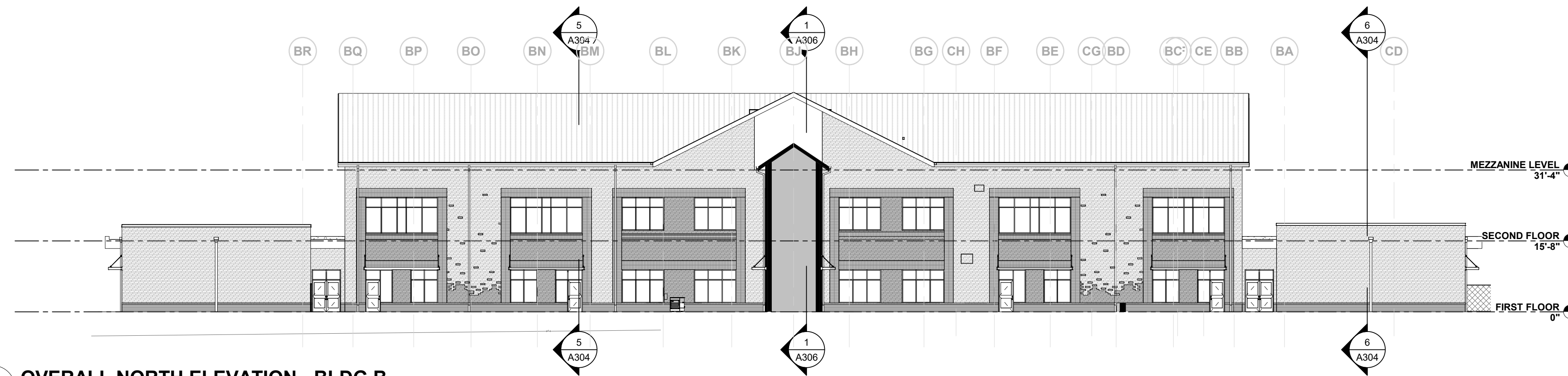
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REVISIONS		
NO.	DATE	DESCRIPTION

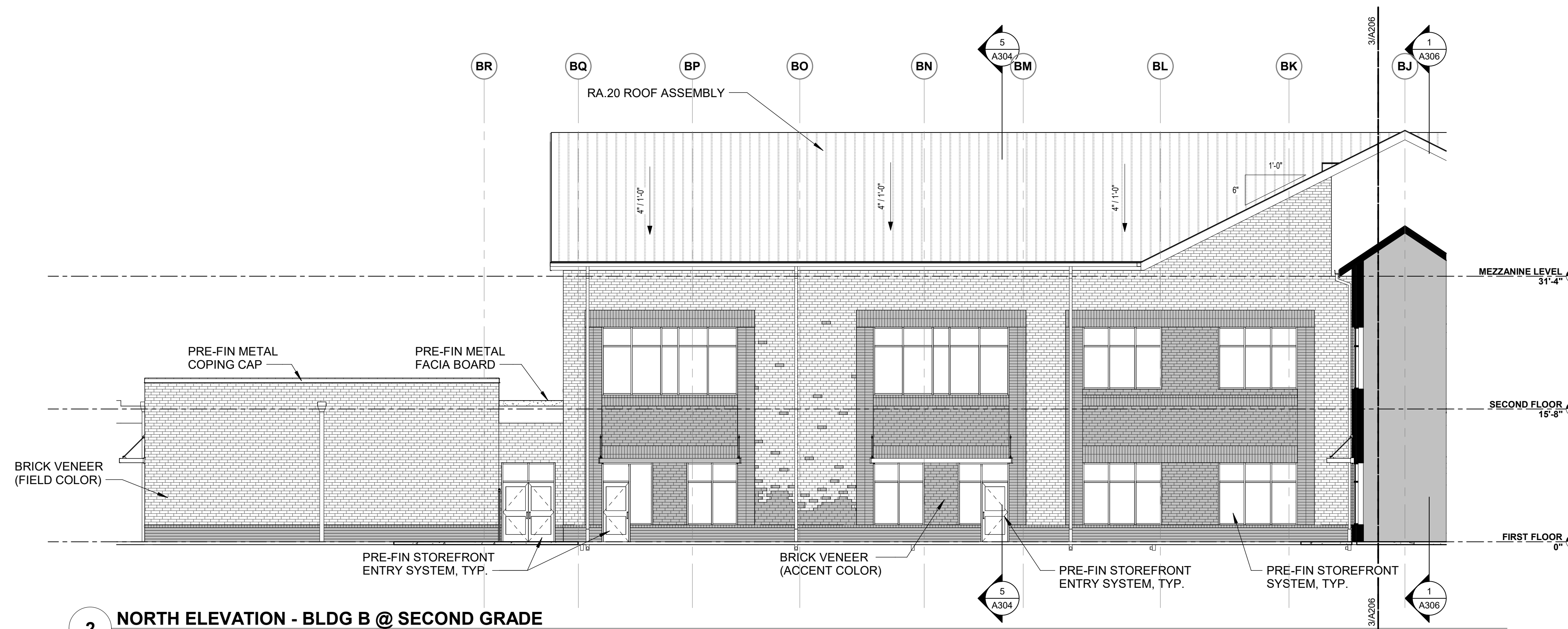
CD 70%
PROJECT PHASE
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BOOMERANG DESIGN PROJECT NUMBER
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**BUILDING ELEVATIONS
- BLDG B - SOUTH**
SHEET TITLE

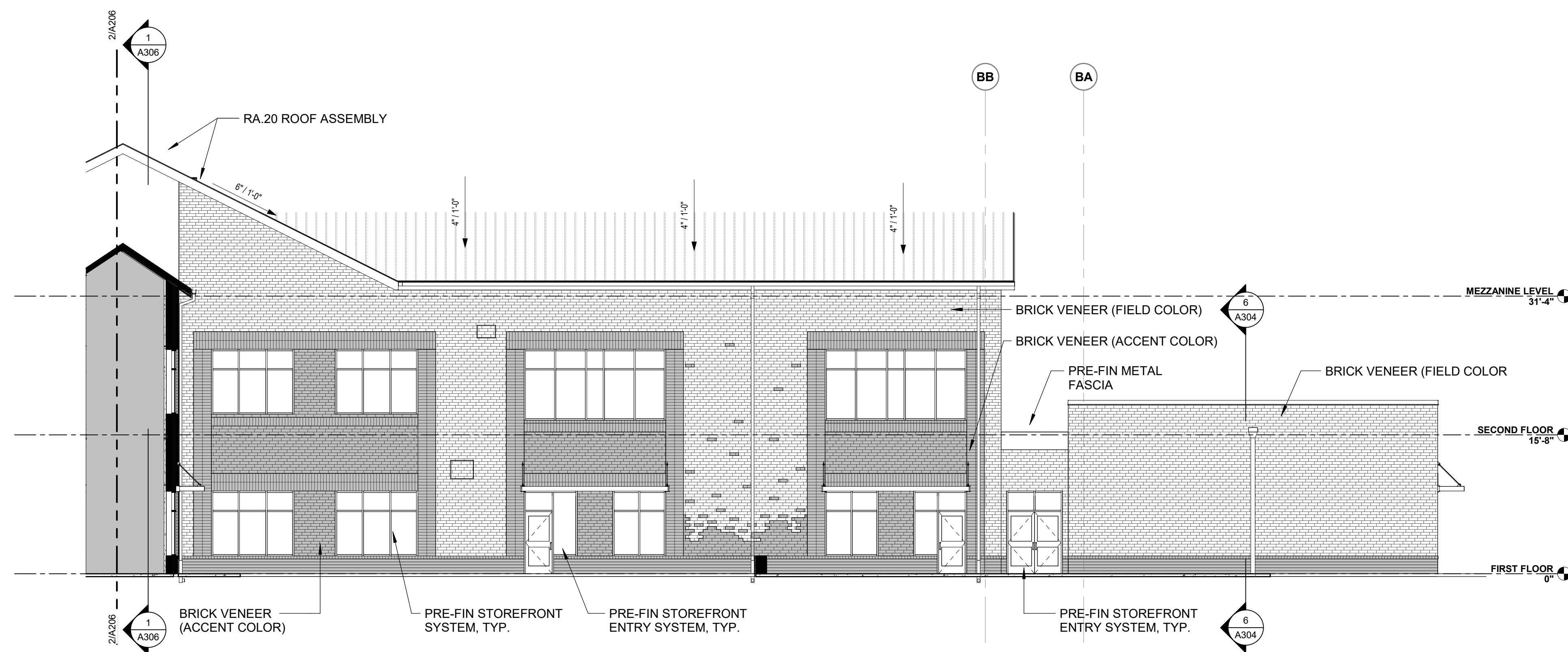
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SHEET



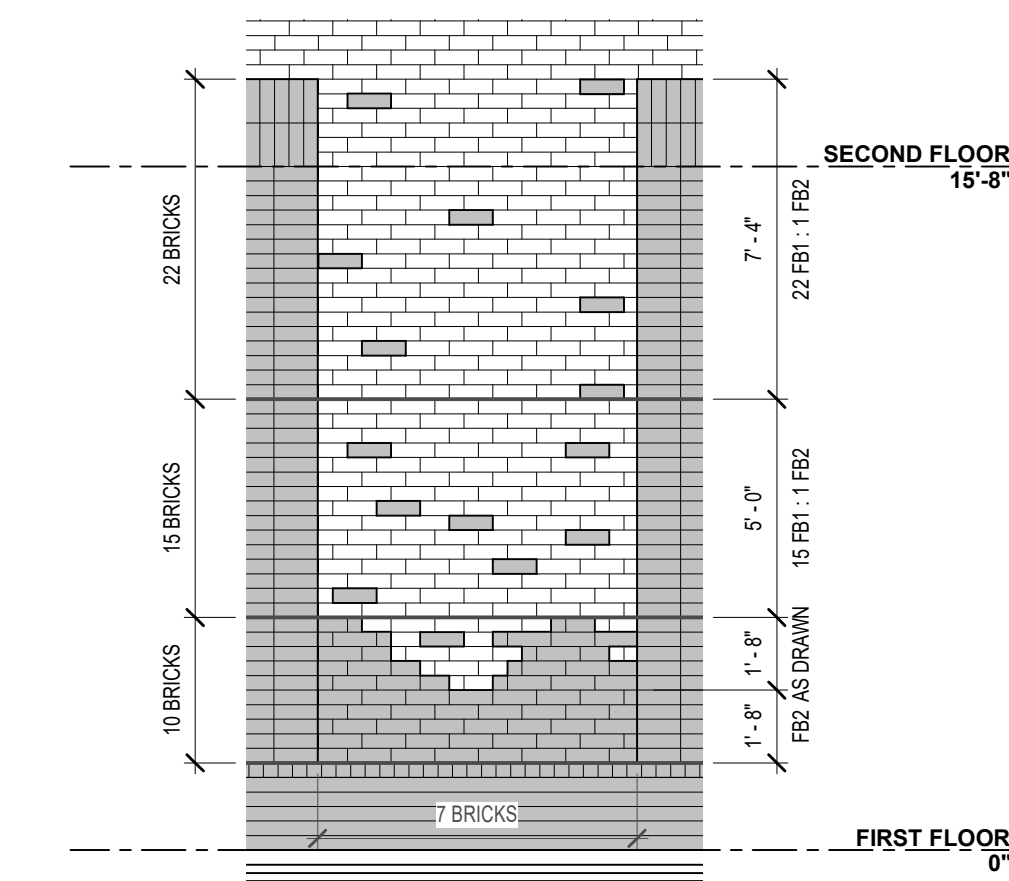
1 OVERALL NORTH ELEVATION - BLDG B
1/16" = 1'-0"



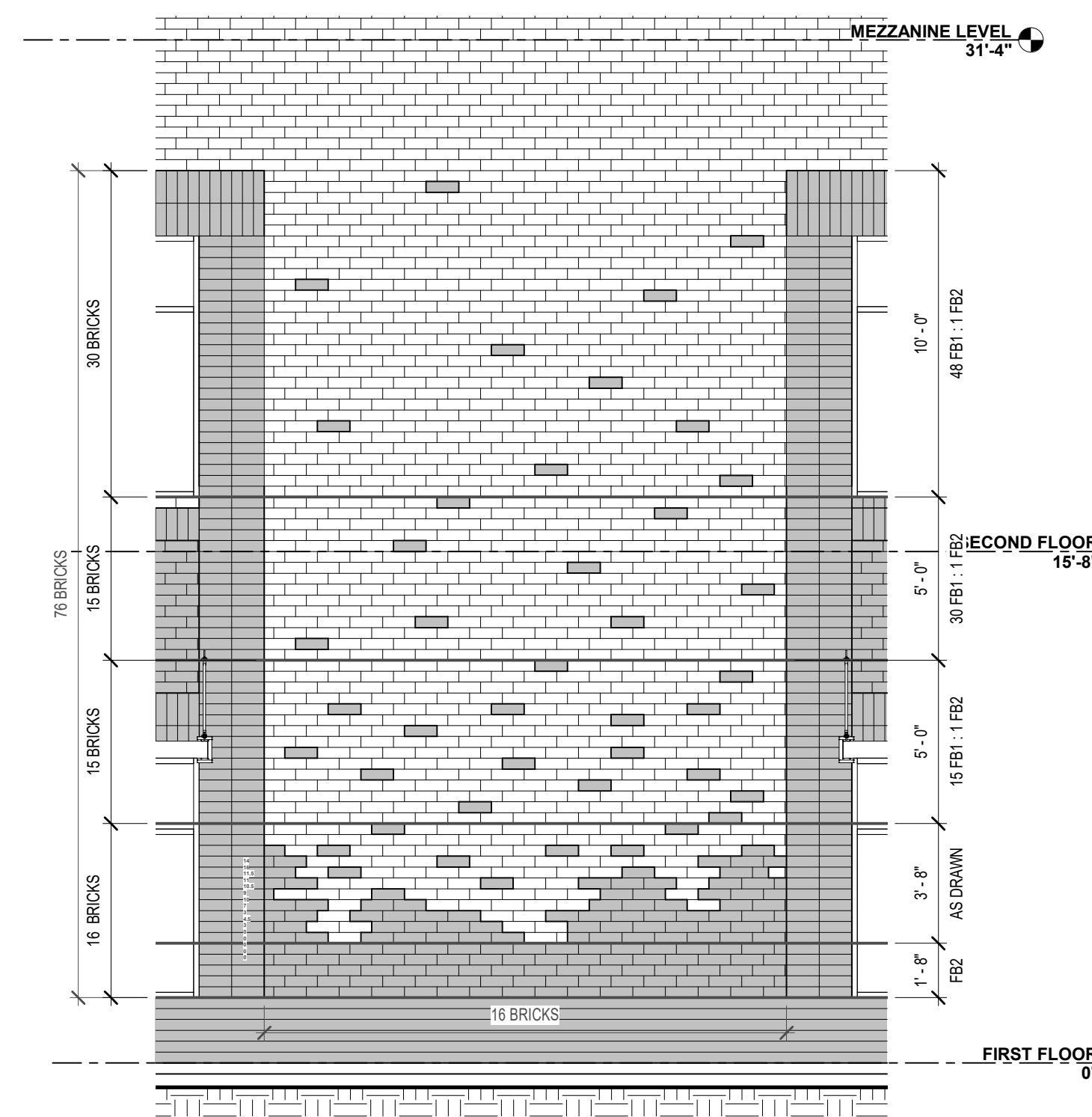
2 NORTH ELEVATION - BLDG B @ SECOND GRADE
1/8" = 1'-0"



3 NORTH ELEVATION - BLDG B @ FIRST GRADE
1/8" = 1'-0"



5 ENLARGED ELEV. - BRICK GRADIENT - TYP 2
1/4" = 1'-0"



4 ENLARGED ELEV. BRICK GRADIENT - TYP 1
1/4" = 1'-0"

**TULLS CREEK
ELEMENTARY
SCHOOL**
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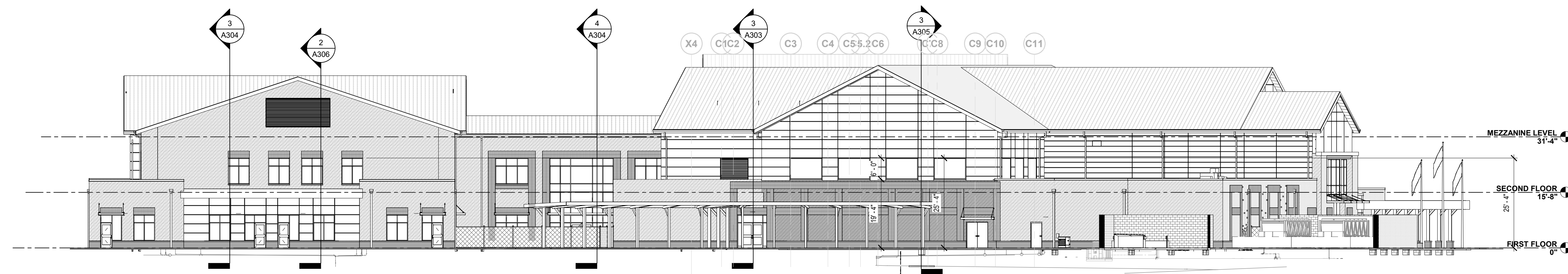
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NO.	DATE	DESCRIPTION

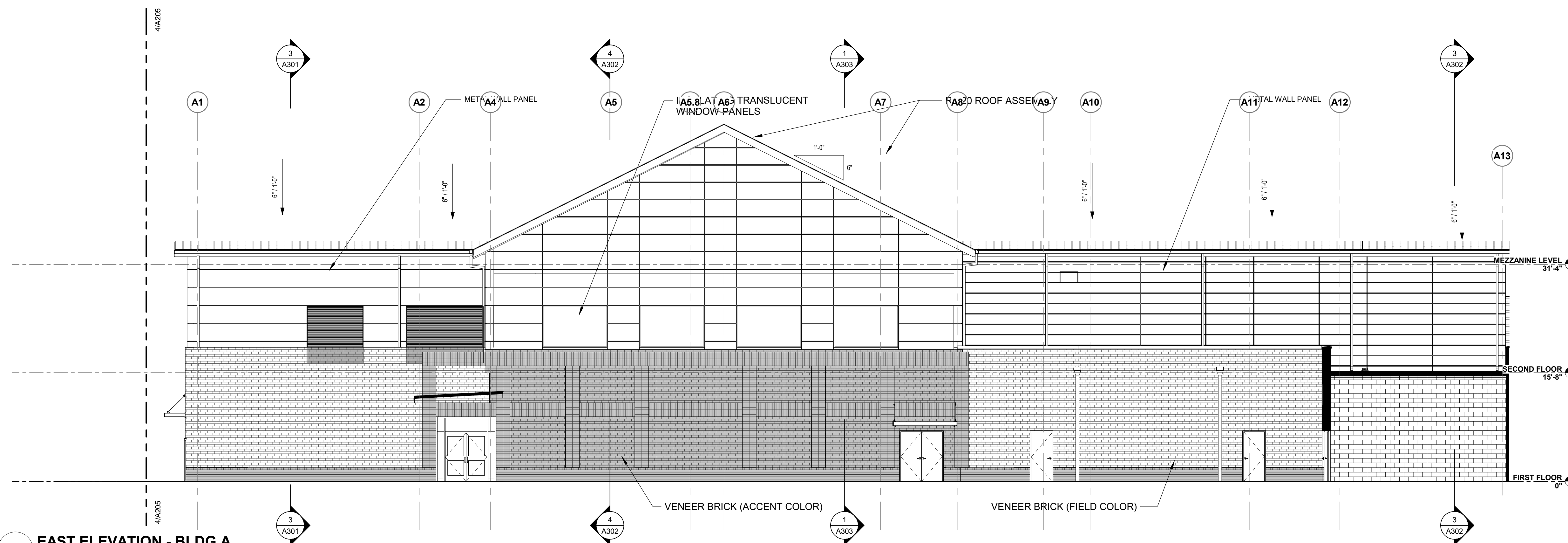
CD 70%
PROJECT PHASE
2207
BOOMERANG DESIGN PROJECT NUMBER
06.07.2023
DRAWING RELEASE DATE

**BUILDING ELEVATION
- BLDG B - NORTH**
SHEET TITLE

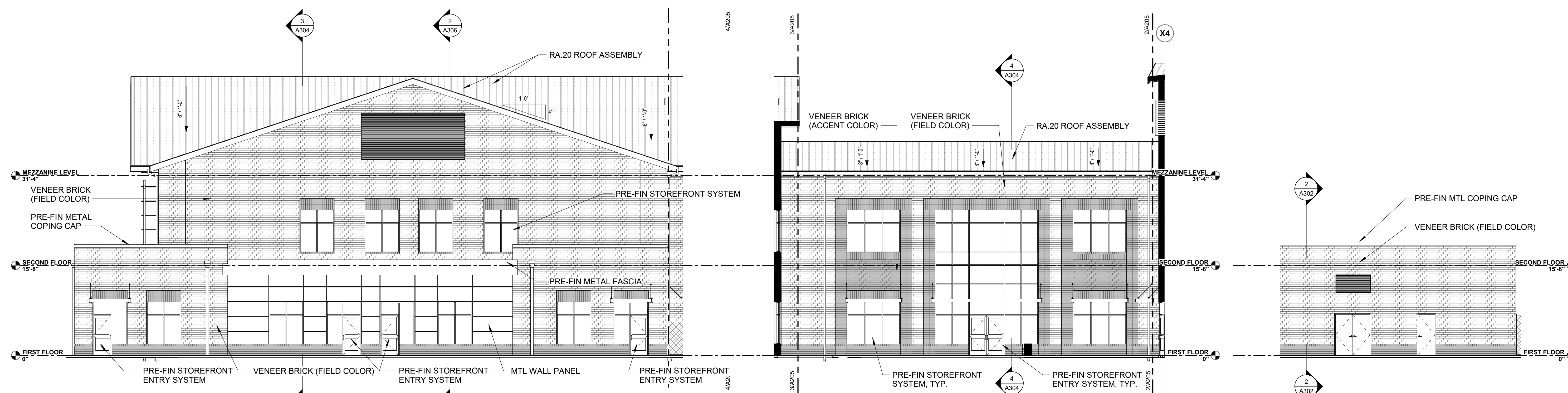
A205
SHEET



1 OVERALL EAST ELEVATION
1/8" = 1'-0"



2 EAST ELEVATION - BLDG A
1/8" = 1'-0"



3 EAST ELEVATION - BLDG B
1/8" = 1'-0"

4 EAST ELEVATION @ CONNECTOR
1/8" = 1'-0"

5 SOUTH EAST ELEVATION - BLDG A
1/8" = 1'-0"

**TULLS CREEK
ELEMENTARY
SCHOOL**
PROJECT TITLE

**PRELIMINARY
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REVISIONS

NO.	DATE	DESCRIPTION

CD 70%
PROJECT PHASE
2207
BOOMERANG DESIGN PROJECT NUMBER
06.07.2023
DRAWING RELEASE DATE

**BUILDING ELEVATIONS
- EAST**
SHEET TITLE

A206
SHEET