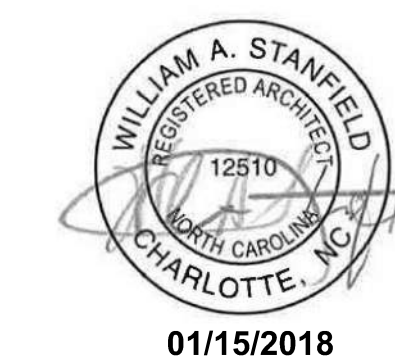
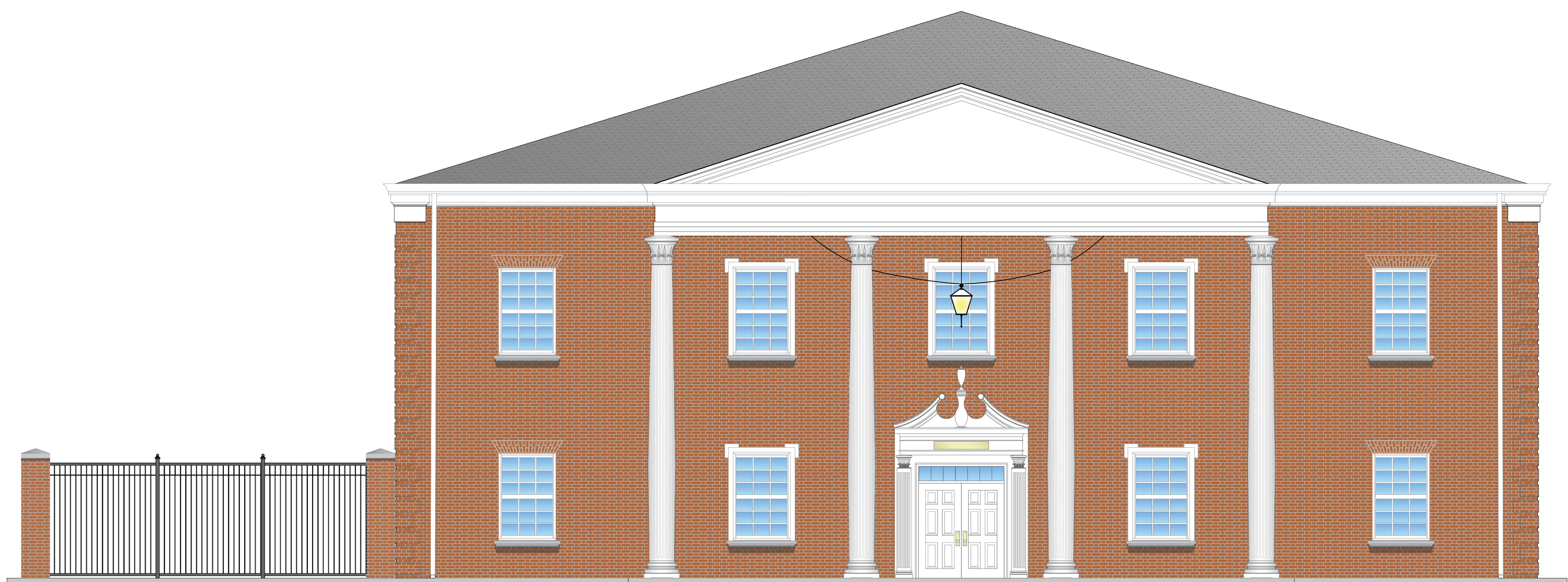




ADMINISTRATIVE ANNEX BUILDING

UNIVERSITY OF NORTH CAROLINA - WILMINGTON

622 MACMILLAN AVENUE, WILMINGTON, NC 28403
SCO ID # 18303



DESIGNED BY:	DATE: 01/15/2018	PROJECT NO:	01/15/2018
DRAWN BY:	SCALE:	PROJECT NO:	XXXX
CONSULTANT:	FILE NAME:	ISSUED BY:	ISSUED FOR CONSTRUCTION
DESIGNED BY:	DATE:	PROJECT NO:	
DRAWN BY:	SCALE:	PROJECT NO:	
CONSULTANT:	FILE NAME:	ISSUED BY:	
DESIGNED BY:	DATE:	PROJECT NO:	
DRAWN BY:	SCALE:	PROJECT NO:	
CONSULTANT:	FILE NAME:	ISSUED BY:	
DESIGNED BY:	DATE:	PROJECT NO:	
DRAWN BY:	SCALE:	PROJECT NO:	
CONSULTANT:	FILE NAME:	ISSUED BY:	
DESIGNED BY:	DATE:	PROJECT NO:	
DRAWN BY:	SCALE:	PROJECT NO:	
CONSULTANT:	FILE NAME:	ISSUED BY:	
DESIGNED BY:	DATE:	PROJECT NO:	
DRAWN BY:	SCALE:	PROJECT NO:	
CONSULTANT:	FILE NAME:	ISSUED BY:	
DESIGNED BY:	DATE:	PROJECT NO:	
DRAWN BY:	SCALE:	PROJECT NO:	
CONSULTANT:	FILE NAME:	ISSUED BY:	



ADMINISTRATIVE ANNEX BUILDING
UNIVERSITY OF NORTH CAROLINA - WILMINGTON
622 MACMILLAN AVENUE, WILMINGTON, NC

COVER SHEET

PLATE
REFERENCE
NUMBER
G-001
SHEET 01 OF 126

GENERAL NOTES

- THE DRAWINGS INDICATE THE GENERAL EXTENT OF WORK. THE DRAWINGS ARE NOT INTENDED TO INDICATE OR DESCRIBE ALL WORK REQUIRED FOR THE FULL PERFORMANCE AND COMPLETION OF THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- THE ENUMERATION OF PARTICULAR ITEMS OF WORK IN ONE PORTION OF THE CONTRACT DOCUMENTS SHALL NOT BE CONSTRUED TO EXCLUDE OTHER ITEMS NECESSARY OR IMPLIED THEREFROM.
- THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF ALL PARTS OF THE WORK SO THAT NO WORK SHALL BE LEFT IN AN UNFINISHED OR INCOMPLETE CONDITION.
- ALL WORK SHALL CONFORM TO APPLICABLE INDUSTRY AND MANUFACTURER'S PUBLISHED STANDARDS FOR QUALITY OF MATERIALS AND WORKMANSHIP, AS WELL AS, ALL REQUIREMENTS IN THESE DRAWINGS AND SPECIFICATIONS. ANY CONFLICTING REQUIREMENTS OF THE SOURCES LISTED ABOVE SHALL BE BROUGHT TO THE ARCHITECT/ENGINEER'S ATTENTION PRIOR TO PROCEEDING WITH THE WORK.
- ONCE ON SITE, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SHALL VERIFY ALL CONDITIONS SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER IN WRITING OF ANY DIFFERING CONDITIONS BEFORE COMMENCEMENT OF WORK.
- DO NOT SCALE DRAWINGS; DIMENSIONS GOVERN. LARGE SCALE DETAILS GOVERN OVER SMALL SCALE DETAILS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER IN WRITING OF ANY DIFFERING CONDITIONS BEFORE COMMENCEMENT OF WORK.
- WALL AND/OR CEILING ASSEMBLIES THAT ARE IDENTIFIED WITH A FIRE RESISTIVE RATING SHALL BE CONSTRUCTED AS DETAILED HEREIN.
- DIMENSIONS SHOWN ARE TO FACE OF STUD OR CMU (U.O.N.).
- PROVIDE EXPANSION AND CONTROL JOINTS IN ALL WORK AS PER PRODUCT MANUFACTURER'S STANDARDS.
- THE CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH ALL APPLICABLE CODES, ORDINANCES AND REGULATORY AGENCIES.
- ALL INTERIOR FINISH MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF ALL APPLICABLE CODES, ORDINANCES AND REGULATORY AGENCIES.
- ALL DISSIMILAR METALS SHALL BE ISOLATED FROM EACH OTHER TO AVOID GALVANIC CORROSION.
- NOTES APPEAR ON VARIOUS SHEETS FOR DIFFERENT SYSTEMS AND MATERIALS. SHEETS ARE TO BE REVIEWED AND NOTES ON INDIVIDUAL SHEETS SHALL BE APPLIED TO RELATED DRAWINGS AND DETAILS.
- A FINISH INDICATION ON A WALL SHALL MEAN THE ENTIRE LENGTH AND HEIGHT OF WALL IS TO BE FINISHED OR FIRE-RATED AS INDICATED.
- DETAILS NOT SHOWN ARE SIMILAR IN CHARACTER TO THOSE DETAILED. WHERE SPECIFIC DIMENSIONS, DETAILS OR DESIGN INTENT CANNOT BE DETERMINED, CONSULT THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK.
- ALL PIPE DUCTS AND BUS DUCTS THAT PENETRATE FLOOR SLABS OR WALL PARTITIONS SHALL BE INSTALLED IN A MANNER THAT WILL PRESERVE THE MOISTURE RESISTIVENESS, FIRE RATING, AND STRUCTURAL INTEGRITY OF THE BUILDING.
- DO NOT CUT INTO, REMOVE OR ALTER ANY STRUCTURAL MEMBER OR PORTION OF THE ROOF STRUCTURE UNLESS IT IS SPECIFICALLY NOTED OR SHOWN ON THE DRAWINGS.
- THE CONTRACTOR SHALL PLAN HIS/HER WORK TO PROVIDE ADEQUATE PROTECTION FOR PERSONS AND PROPERTY AT ALL TIMES, AND EXECUTE THE WORK IN SUCH A MANNER TO AVOID ANY HAZARD TO PERSONS AND PROPERTY AS NECESSARY.
- ALL SIGNAGE TO BE APPROVED BY THE OWNER PRIOR TO ORDERING MATERIALS.
- CONTRACTOR IS FULLY RESPONSIBLE FOR CONTACTING APPROPRIATE PARTIES AND ASSURING THAT EXISTING UTILITIES ARE LOCATED PRIOR TO CONSTRUCTION.
- EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO PERFORMING ANY LAND DISTURBING ACTIVITIES OR REMOVALS.
- THE LIMITS OF CONSTRUCTION ARE SHOWN ON THE CIVIL SHEETS.
- ALL INTERIOR DOOR FRAMES SHOWN NEAR INSIDE CORNER OF WALL SHALL BE LOCATED A DISTANCE OF 4" (FOUR) INCH FROM THE THROAT RETURN TO THE CLOSEST ADJACENT PERPENDICULAR PARTITION, UNLESS OTHERWISE NOTED.
- THE 0'-0" REFERENCE ELEVATION SHALL BE THE TOP OF SLAB ACTUAL ELEVATION (ABOVE SEA LEVEL) SEE CIVIL DRAWINGS.
- UNLESS OTHERWISE NOTED, ALL ELEVATION DATUMS ARE MEASURED FROM THE REFERENCE ELEVATION 0'-0".
- SEE ADDITIONAL GENERAL NOTES ON EACH INDIVIDUAL SHEET.
- UNLESS OTHERWISE NOTED, ALL NOTES, DETAILS AND FEATURES DRAWN AS APPLICABLE FOR ONE CONDITION, SHALL BE APPLICABLE TO SIMILAR CONDITIONS WHETHER OR NOT IS SPECIFICALLY INDICATED OR NOTED.
- INSTALL BLOCKING (STEEL STUD OR WOOD - TREATED WOOD NEAR WET CONDITIONS, U.O.N.) AT ALL WALL OR CEILING MOUNTED ACCESSORIES. VERIFY MOUNTING HEIGHTS WITH MANUFACTURER'S SPECIFICATIONS AND / OR RECOMMENDATIONS FOR EACH ITEM.
- THE MANUFACTURER'S NAMES AND THEIR PRODUCTS REFERENCED HEREIN INDICATE THE COLOR, TEXTURE, PATTERN AND QUALITY REQUIRED FOR MATERIALS LISTED. THE PRODUCTS FURNISHED SHALL MEET THE COLOR, TEXTURE AND PATTERN INDICATED AS WELL AS THE MATERIAL, QUALITY AND PERFORMANCE SPECIFIED IN THE APPLICABLE TECHNICAL SPECIFICATION SECTION. THE USE OF MANUFACTURER'S NAMES AND PRODUCTS DOES NOT PRECLUDE THE USE OF OTHER MANUFACTURER'S PRODUCTS IF SUBMITTED AS SUBSTITUTIONS AND ARE APPROVED.

STANDARD ABBREVIATIONS

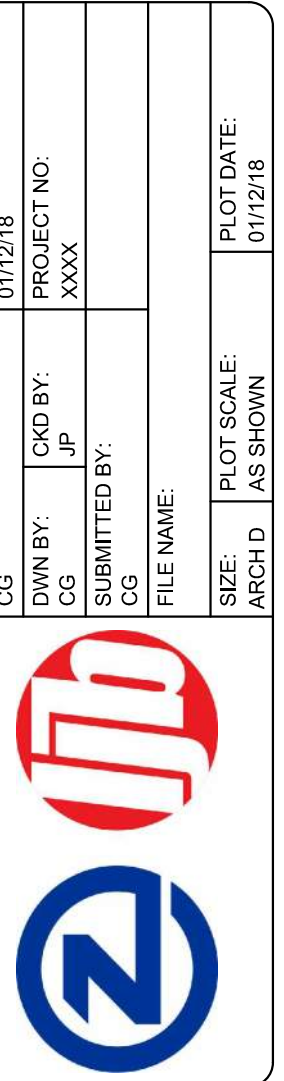
A		D		H		N		S	
A.C.	AIR CONDITIONED	DET.	DETAIL	H.	HIGH	N.A.	NOT APPLICABLE	S.	SUPPLY
A.C.M.	ASBESTOS CONTAINING MATERIAL	DIA.	DIAMETER	H.B.	HOSE BIBB	N.I.C.	NOT IN CONTRACT	S.A.	SUPPLY AIR
A.D.	AREA DRAIN	DIFF.	DIFFUSER	H.C.	HOLLOW CORE	NO. #	NUMBER	SCH.	SCHEDULE
A.F.F.	ABOVE FINISH FLOOR	DIM.	DIMENSION	HT.	HEIGHT	O		SECT.	SECTION
A.H.U.	AIR HANDLING UNIT	DISC.	DISCONNECT	H.M.	HOLLOW METAL	O.A.	OUTDOOR AIR	SERV.	SERVICE
ALT.	ALTERNATE	DN.	DOWN	H.P.	HORSE POWER	O.C.	ON CENTER	SHT.	SHEET
ALUM.	ALUMINUM	DR.	DOOR	HR.	HOUR	O.D.	OUTSIDE DIAMETER	S.J.	SLIP JOINT
AMP. A	AMPERES	D.S.	DOWNSPOUT	HTG.	HEATING	O.H.	OVERHEAD	SPEC.	SPECIFICATIONS
A.O.	ACCESS OPENING	DWG. (S)	DRAWING (S)	HTR.	HEATER	OL.	OVERLOAD	SQ. FT., SF	SQUARE FEET
APPROX.	APPROXIMATELY	DSB	DOUBLE STRENGTH "B" GLASS	HVAC	HEATING, VENTILATION & AIR CONDITIONING	OPNG.	OPENING	STL.	STEEL
ARCH.	ARCHITECTURAL	E		HW., HDWE.	HARDWARE	OPP.	OPPOSITE	STOR.	STORAGE
A.T.C.	ACOUSTICAL TILE CEILING	EA.	EACH	HYD.	HYDRANT	O.S.D.	OPEN SIGHT DRAIN	STRUC.	STRUCTURAL
A.B.	ANCHOR BOLT	E.C.	EMPTY CONDUIT	HORIZ.	HORIZONTAL	P		SUSP.	SUSPENDED
B		E.F.	EXHAUST FAN	I		P.	PAPER	SW.	SWITCH
BAL.	BALANCE	E.L., ELEV.	ELEVATION	I.D.	INSIDE DIAMETER	P.	PARTN.	STD.	STANDARD
BD.	BOARD	ELEC.	ELECTRIC	I.E.	INVERT	PER.	PERIMETER	T	
BLDG.	BUILDING	EQUIP.	EQUIPMENT	IN.	INCHES	PL.	PLATE	T., TOIL	TOILET
BLK.	BLOCK	E.W.	EACH WAY	INCAND.	INCANDESCENT	PLB.	PLUMBING	TEL.	TELEPHONE
BM.	BEAM	E.W.C.	ELECTRIC WATER COOLER	INSUL.	INSULATION	PLYD.	PLYWOOD	TEMP.	TEMPERATURE
BOT.	BOTTOM	EXH.	EXHAUST	INT.	INTERIOR	PNL.	PANEL	THK.	THICKNESS
BRG.	BEARING	EXP. JT.	EXPANSION JOINT	J		PRESS.	PRESSURE	THD.	THRESHOLD
B.T.U.H.	BRITISH THERMO UNIT/HR.	EXT.	EXTERIOR	J.B.	JUNCTION BOX	PSF	POUNDS / SQUARE FOOT	TYP.	TYPICAL
C		EXIST.	EXISTING	JCT.	JUNCTION	PSI	POUNDS / SQUARE INCH	T.T.D.	TOILET TISSUE DISPENSER
CAB.	CABINET	F		JT.	JOINT	PSIG	POUNDS / SQUARE INCH GAGE	T.O.S.	TOP OF STEEL
CAP.	CAPACITY	F.A.	FIRE ALARM	K		PT.	POINT	T & G	TONGUE & GROOVE
C/B	CIRCUIT BREAKER	F.C.	FLEXIBLE CONNECTION	KVA	KILOVOLT AMPERE	PTD.	PAINTED	TR.	TREAD
C.D.	CEILING DIFFUSER	F.D.	FLOOR DRAIN	KW.	KILOWATT	P.T.D.	PAPER TOWEL DISPENSER	U	
CEM.	CEMENT	FE	FIRE EXTINGUISHER	L		Q		U.O.N.	UNLESS OTHERWISE NOTED
CER.	CERAMIC	F.E.C.	FIRE EXTINGUISHER CABINET	LB.	POUND	QTR.	QUARTER	V	
C.F.M.	CUBIC FEET/MINUTE	FIN.	FINISH	LG.	LONG	QUAN.	QUANTITY	V.	VOLT
CIRC.	CIRCULATING	FL.	FLOOR	L.P.	LIGHTING PANEL	R		V.C.T.	VINYL COMPOSITION TILE
C.J.	CONTROL JOINT	FR.	FRAME	LTG.	LIGHTING	R.A.	RETURN AIR	VENT.	VENTILATION
CK'D	CHECKERED	FT.	FOOT - FEET	LAV.	LAVATORY	RAD.	RADIUS	VERT.	VERTICAL
CKT.	CIRCUIT	FTG.	FOOTING	M		RD.	ROUND	VTR.	VENT THRU ROOF
C.L.	CENTER LINE	FDN.	FOUNDATION	M.	MOTOR	REC'D.	RECESSED	W	
CIEL., CLG.	CEILING	G		MAINT.	MAINTENANCE	RECIRC.	RECIRCULATING	W.	WATT
CLO.	CLOSET	GA.	GAGE	MAX.	MAXIMUM	REG.	REGISTER	W/	WITH
C.M.U.	CONCRETE MASONRY UNIT	GAL.	GALLON	M.D.P.	MAIN DISTRIBUTION PANEL	REINF.	REINFORCING	WD.	WOOD
C.O.	CLEAN OUT	GALV.	GALVANIZED	MECH.	MECHANICAL	REQ'D.	REQUIRED	W.G.	WATER GAGE
COL.	COLUMN	G.F.E.	GOVERNMENT FURNISHED EQUIPMENT	MTL.	METAL	RET.	RETURN	WP.	WEATHERPROOF
CONC.	CONCRETE	GL.	GLASS	MIN.	MINIMUM	R.G.	RETURN GRILLE	WTR.	WATER
COND.	CONDENSATE	GND.	GROUND	MISC.	MISCELLANEOUS	RM.	ROOM	W.W.F.	WELDED WIRE FABRIC
CONN.	CONNECTION	GOV'T	GOVERNMENT	M.O.	MASONRY OPENING	R.O.	ROUGH OPENING	W.C.	WATER CLOSET
CONST.	CONSTRUCTION	G.P.H.	GALLONS/HOUR	M.T.	METAL THRESHOLD	R.P.M.	REVOLUTIONS / MINUTE	W.H.	WATER HEATER
CONT.	CONTINUOUS	G.P.M.	GALLONS/MINUTE	MTD.	MOUNTED				
CONTR.	CONTRACTOR	GR.	GRILLE	MTG.	MOUNTING				
CONTR. JT.	CONTRACTION JOINT	G.W.B.	GYPSUM WALL BOARD	M.V.	MECHANICAL VENTILATION				
C.T.	CERAMIC TILE	GYP.	GYPSUM						
C.T.B.	CERAMIC TILE BASE								
C TO C.	CENTER TO CENTER								
CU. FT., CF.	CUBIC FEET								

STANDARD SYMBOLS

<p>DETAIL NUMBER 101 SHEET DETAIL SHOWN ON</p>	<p>CONCRETE</p>	<p>CMU (SECTION)</p>	<p>CMU (ELEVATION)</p>
<p>DETAIL NUMBER 101 SHEET DETAIL SHOWN ON</p>	<p>SAND</p>	<p>BRICK (SECTION)</p>	<p>BRICK (ELEVATION)**</p>
<p>DETAIL NUMBER 101 SHEET DETAIL SHOWN ON</p>	<p>GROUT</p>	<p>CMU (PLAN)</p>	<p>GRATING</p>
<p>DETAIL NUMBER 101 SHEET DETAIL SHOWN ON</p>	<p>EARTH (COMPACTED)</p>	<p>STEEL</p>	
<p>DETAIL NUMBER 101 SHEET DETAIL SHOWN ON</p>	<p>EARTH (UNDISTURBED)</p>	<p>RIGID INSULATION</p>	
<p>DETAIL NUMBER 101 SHEET DETAIL SHOWN ON</p>	<p>GRAVEL</p>	<p>BATT INSULATION</p>	
<p>DETAIL NUMBER 101 SHEET DETAIL SHOWN ON</p>	<p>ASPHALT</p>	<p>BLOCKING</p>	



DATE:	01/12/18
PROJECT NO.:	XXXX
DESIGNED BY:	CG
CHK'D BY:	JF
DATE SUBMITTED BY:	CG
FILE NAME:	
SIZE:	AS SHOWN
ARCH D:	AS SHOWN
PLOT DATE:	01/12/18
ISSUED FOR CONSTRUCTION	

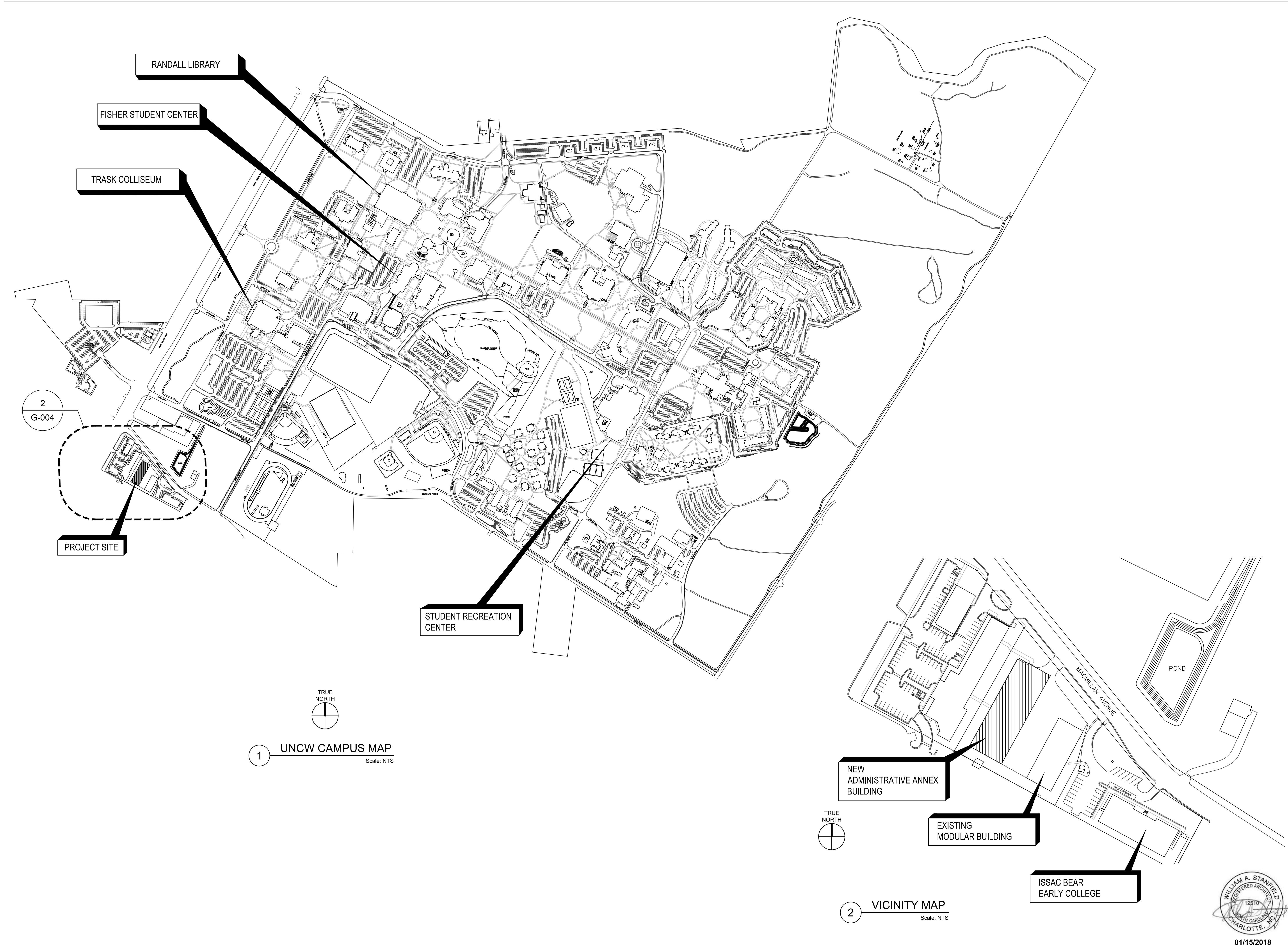


ADMINISTRATIVE ANNEY BUILDING
UNIVERSITY OF NORTH CAROLINA - WILMINGTON
622 MACMILLAN AVENUE, WILMINGTON, NC

PLATE REFERENCE NUMBER
G-003
SHEET 03 OF 126



ADMINISTRATIVE ANNEX BUILDING
UNIVERSITY OF NORTH CAROLINA - WILMINGTON
622 MACMILLAN AVENUE, WILMINGTON, NC



RANDALL LIBRARY

FISHER STUDENT CENTER

TRASK COLLISEUM

2
G-004

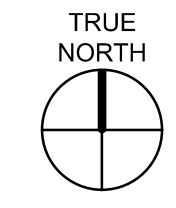
PROJECT SITE

STUDENT RECREATION CENTER

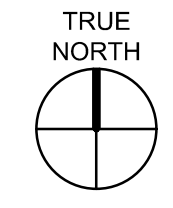
NEW ADMINISTRATIVE ANNEX BUILDING

EXISTING MODULAR BUILDING

ISSAC BEAR EARLY COLLEGE



1 **UNCW CAMPUS MAP**
Scale: NTS



2 **VICINITY MAP**
Scale: NTS





APPENDIX B BUILDING CODE SUMMARY

Name of Project: ADMINISTRATIVE ANNEX BUILDING
Address: 622 MacMillan Ave., Wilmington, North Carolina
Zip Code: 28403
Proposed Use: Office
Owner or Authorized Agent: Galen Jamison

PROJECT SUMMARY

Building Description: 2 Story office, 17,138 GSF footprint, Type II-B construction, protected structural steel, brick veneer construction, sprinklered, Business Occupancy.

Scope of Work Details: This project consists of new construction of an office building, including slab/ foundations, walls and roof. Scope includes associated Civil, Structural, Architectural, Plumbing, Fire Protection, Mechanical and Electrical Design.

Alternative Means of Compliance Request: N/A

Industrial Equipment with Declaration Document Attached

RTAP (Revisions to Approved Plans)

Date of Preliminary Review:

LEAD DESIGN PROFESSIONAL: William Stanfield 704.378.4952 bstanfield@zapatainc.com

Table with columns: DESIGNER, FIRM, NAME, LICENSE #, PHONE #, E-MAIL. Lists architectural, electrical, fire alarm, plumbing, mechanical, fire protection, structural, and landscape designers.

- Code Edition: 2012 North Carolina State Building Code - Administrative, 2012 North Carolina State Building Code - Building, 2012 North Carolina State Building Code - Energy Conservation, 2012 North Carolina State Building Code - Fire Prevention, 2012 North Carolina State Building Code - Mechanical, 2012 North Carolina State Building Code - Plumbing

New Construction: Shell Building, Addition, Upfit (First Time Interior Completion)

Existing Building: Reconstruction, Alteration, Repair, Renovation
Constructed (date):
Original Use(s) (Ch. 3):
Renovated (date):
Current Use(s) (Ch. 3):
Proposed Use(s) (Ch. 3):

SPECIAL APPROVALS

Special Approval: (Local Jurisdiction, Department of Insurance, ICC, etc., describe below)
N/A

BUILDING DATA (per 2012 North Carolina State Building Code)

Construction Type: I-A, II-A, III-A, IV, V-A, I-B, II-B, III-B, V-B
Mixed Construction: No, Yes
Types:
Sprinklers: No, Yes, Partial
Standpipes: No, Yes

Fire District: No, Yes (Primary)
Building Height: 39'-9" Feet, 2 Number of Stories
Mezzanine: No, Yes
High Rise: No, Yes

Gross Building Area (Exterior) (sq. ft.):

Table with columns: FLOOR, EXISTING, NEW, RENO/UPFIT. Rows for 1st Floor, 2nd Floor, and TOTAL.

ALLOWABLE AREA (per 2012 North Carolina State Building Code)

Primary Occupancy: Assembly, Business, Hazardous, Institutional, I-3 Use Condition, Mercantile, Storage, Utility and Miscellaneous.
Secondary Occupancies: Assembly, Business, Hazardous, Institutional, I-3 Use Condition, Mercantile, Storage, Utility and Miscellaneous.

Special Uses:

- 402, 403, 404** 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427

Special Provisions: 509.2.0, 509.3, 509.4, 509.5, 509.6, 509.7, 509.8, 509.9

Mixed Occupancy: No, Yes
Separation: HR
Exception:
Incidental Use Separation (508.2.5) (NFPA 101:28.3.2.2.2) This separation is not exempt as a Non-Separated Use (see exceptions).

Non-Separated Mixed Occupancy (508.3): B, S-1, A
The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.

Separated Mixed Occupancy (508.4)
For each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

Actual Area of Occupancy A + Actual Area of Occupancy B / Allowable Area of Occupancy A + Allowable Area of Occupancy B = <= 1

Table with columns: STORY NO., DESCRIPTION AND USE, (A) BLDG. AREA PER STORY (ACTUAL), (B) TABLE 503* AREA, (C) AREA FOR FRONTAGE INCREASE 1, (D) AREA FOR SPRINKLER INCREASE 2, (E) ALLOWABLE AREA OR UNLIMITED 3, (F) MAXIMUM BUILDING AREA 4. Rows for 1st Floor and 2nd Floor.

- 1 Frontage area increases from Section 506.2 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width with = -- (F)
b. Total Building Perimeter = 410'-10" (P)
c. Ratio (F/P) = -- (F/P)
d. W = Minimum width of public way = 10 FT MIN. (W)
e. Percent of frontage increase I1 = 100[F/P - 0.25] x W/30 = -- (%)
2 The sprinkler increase per Section 506.3 is as follows:
a. Multi-story building I2 = 200 percent
b. Single story building I2 = 300 percent
3 Unlimited area applicable under conditions of Section 507.
Allowable Area (A1) from Section 506.1 is computed thus:
a. A1 = tabular area 23,000
b. I1 = Percent of Frontage Increase N/A
c. I2 = Percent Sprinkler Increase N/A
d. Allowable Area A2 = (A1 x I1) + (A1 x I2) + (A1 x I3)
e. Allowable Area A3 = (23,000 + [23,000 x 0] + [23,000 x 0]) = 23,000
4 Maximum Building Area = total number of stories in the building X E (506.4)
5 The maximum area of parking garages must comply with Table 406.3.5. The maximum area of air traffic control towers must comply with 412.1.2.

ALLOWABLE HEIGHT (per 2012 North Carolina State Building Code)

Table with columns: ALLOWABLE TABLE 504.3, 504.4, INCREASE FOR SPRINKLERS, SHOWN ON PLANS, CODE REFERENCE. Rows for Type of Construction, Building Height in Feet, Building Height in Stories.

FIRE PROTECTION REQUIREMENTS

Refer to Life Safety Plan Sheets G-101, G-102

Table with columns: BUILDING ELEMENT (per NC Bldg Code Tables 601 & 602), FIRE SEPARATION DISTANCE (FEET), RATING REQ'D, PROVIDED (W/ * REDUCTION), DETAIL # AND SHEET #, DESIGN # FOR RATED ASSEMBLY/PENETRATION, DESIGN # FOR RATED JOINTS. Rows for Structural Frame, Bearing Walls, Exterior, Interior, Floor Construction, Roof Construction, Nonbearing walls and partitions, Shafts - Exit, Shafts - Elevator, also Machine Room.

FIRE PROTECTION REQUIREMENTS (cont.)

Table with columns: BUILDING ELEMENT (per NFPA 101 UON), FIRE SEPARATION DISTANCE (FEET), RATING REQ'D, PROVIDED (W/ * REDUCTION), DETAIL # AND SHEET #, DESIGN # FOR RATED ASSEMBLY/PENETRATION, DESIGN # FOR RATED JOINTS. Rows for Shafts - Other, Corridor Separation, Occupancy Separation, Party/Fire Wall Separation, Smoke Barrier Separation, Tenant Separation, Incidental Use Separation, Fire Pump Room.

* Indicate section number permitting reduction
** Note: Ceiling panels are not a part of floor assembly.
N.C. = Non Combustible N.R. = Not Required N/A = Not Applicable

LIFE SAFETY SYSTEM REQUIREMENTS (per 2012 North Carolina State Building Code)

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

EXIT REQUIREMENTS

NUMBER AND ARRANGEMENT OF EXITS (per 2012 North Carolina State Building Code)

Table with columns: FLOOR, ROOM OR SPACE DESIGNATION, REQ'D (38.2.4; 42.2.4), SHOWN ON PLANS, ALLOWABLE TRAVEL DISTANCE (38.2.6; T 42.2.6), ACTUAL TRAVEL DISTANCE SHOWN ON PLANS, REQUIRED DISTANCE BETWEEN EXIT DOORS, ACTUAL DISTANCE SHOWN ON PLANS. Rows for 1ST FLOOR, 2nd FLOOR.

- 1 Corridor Dead Ends (38.2.5.2.2; T42.2.5)
2 Single Exits (38.2.4.4)
3 Common Path of Travel (38.2.5.3.3) Business = 100 ft.
Common Path of Travel (38.2.5.3.3) Communications Room = 100 ft. (7.12.1)

EXIT WIDTH (per 2012 North Carolina State Building Code)

Table with columns: USE GROUP OR SPACE DESCRIPTION, AREA 1 sq. ft., AREA PER OCCUPANT (Table 7.3.1.2), CALCULATED OCCUPANT LOAD (A / b), EGRESS WIDTH PER OCCUPANT (7.3), EXIT WIDTH (in) 2,3,4,5. Rows for FIRST FLOOR, SECOND FLOOR.

- 1 See Table 7.3.1.2 to determine whether net or gross area is applicable. See definition "Area, Gross" and "Area, Net" (Section 3.3.21).
2 Minimum stairway width: (occupant count >50): 44-in (Section 7.2.2.2.1.2); min. exit access width: 44-in (Section 38.2.3.2); min. door width: 32-in (Section 7.2.1.2.3.2)
3 Minimum width of exit passageway (Section 7.2.6.4.2)
4 See Section 7.3.1.5 for converging exits.
5 The loss of one means of egress shall not reduce the available capacity to less than 50 percent of the total required (Section 7.3.1.1.2)

EGRESS CAPACITY (per 2012 North Carolina State Building Code)

Table with columns: SPACE OR DESCRIPTION, EXIT COMPONENT, NOM. EXIT WIDTH, CAPACITY PER COMPONENT, QUANTITY, COMPONENT MAX CAPACITY, ACTUAL CAPACITY. Rows for STAIRS #1, STAIRS #2.

PLUMBING FIXTURE REQUIREMENTS (per 2012 North Carolina State Building Code)

Table with columns: OCCUPANCY (OCCUPANTS), WATER CLOSETS, URINALS, LAVATORIES, UNISEX, SHWRS/ TUBS, DRINKING FNTNS REG. ACCESS. Rows for 1st Floor, 2nd Floor, Total Provided, Total Required.

Number of Occupants is based on 50% Male/ 50% Female of the Total anticipated FTE. Urinals may be substituted for up to 1/3 of the male water closets.
6 FTE X .8 = 5 MALES
6 FTE X .2 = 1 FEMALES

ENERGY SUMMARY This section for new construction, additions, change of use and interior completions.

ENERGY REQUIREMENTS:

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

Climate Zone: 2a, 3a, 4, 5

Method of compliance:

- Prescriptive (Energy Code), Performance (Energy Code)
Prescriptive (ASHRAE 90.1-2010), Performance (ASHRAE 90.1-2010)

THERMAL ENVELOPE

No Change to Building Envelope

Roof/Ceiling Assembly (each assembly)

Table with columns: Description of assembly, U-Value of total assembly, R-Value of insulation, Skylights in each assembly, U-Value of skylight, total square footage of skylights in each assembly. Row for Asphalt shingle over plywood deck, unoccupied space, insulation, and gwb.

Exterior Walls (each assembly)

Table with columns: Description of assembly, U-Value of total assembly, R-Value of insulation, Openings (windows or doors with glazing), U-Value of assembly, solar heat gain coefficient (SHGC), low e required, if applicable, Door R-Value. Row for 8"x4"x4" brick layer, 1" rigid insul., vapor barrier, 6" batt insulation (R-19), 6" metal studs at 16" o.c., 5/8 gwb.

Walls adjacent to unconditioned space (each assembly)

Table with columns: Description of assembly, U-Value of total assembly, R-Value of insulation, Openings (windows or doors with glazing), U-Value of assembly, low e required, if applicable, Door R-Value. Row for N/A.

Walls below grade (each assembly)

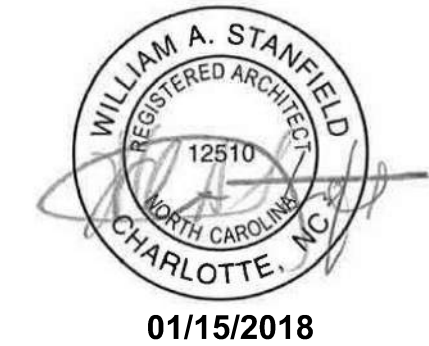
Table with columns: Description of assembly, U-Value of total assembly, R-Value of insulation, projection factor (PF), U-Value of assembly, low e required, if applicable, Door R-Value. Row for N/A.

Floors over unconditioned space (each assembly)

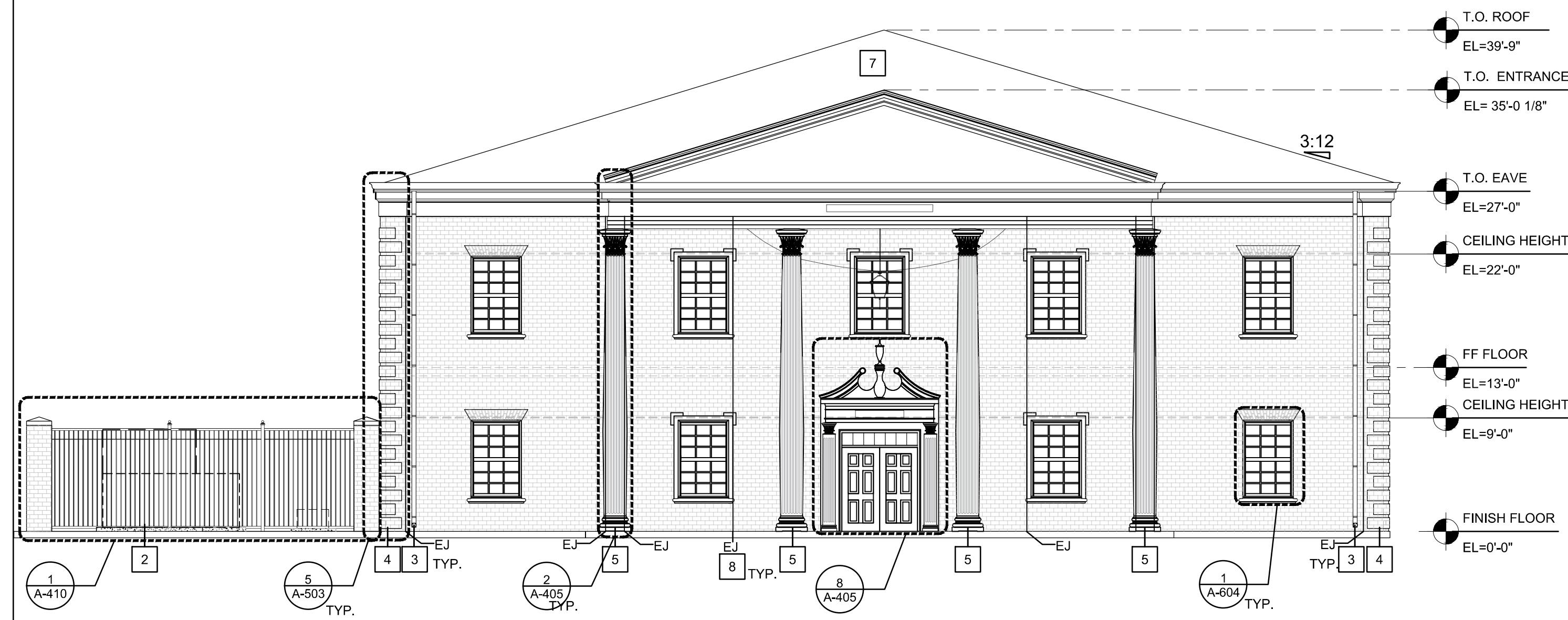
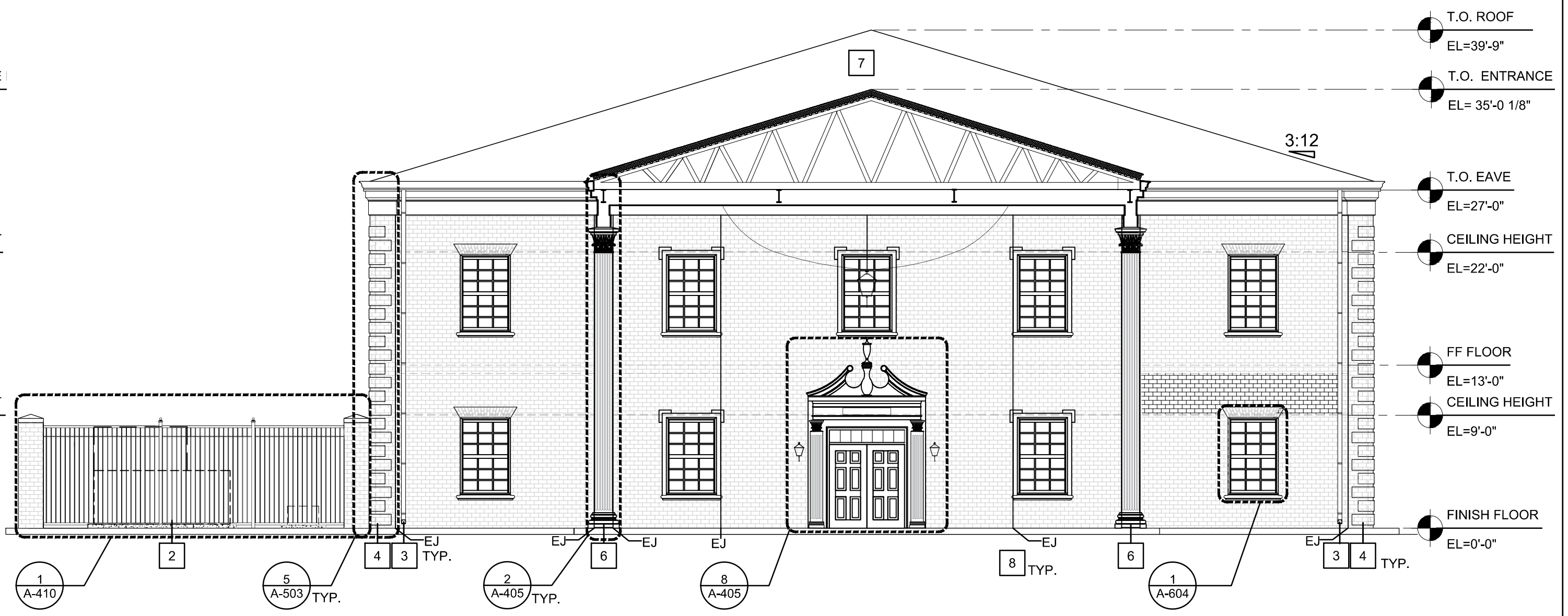
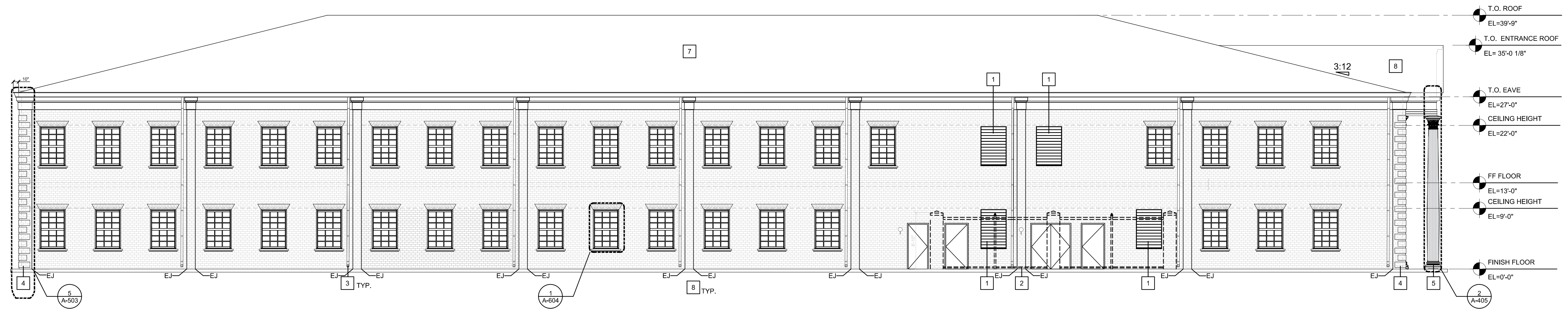
Table with columns: Description of assembly, U-Value of total assembly, R-Value of insulation, projection factor (PF), U-Value of assembly, Horizontal/vertical requirement, slab heated. Row for N/A.

SPECIAL INSPECTIONS (per 2012 North Carolina State Building Code)

No Special Inspections required for this project, Special Inspections required. (Refer to Sheet S-003 Special Inspections)



Vertical sidebar containing project information: DATE: 01/15/18, PROJECT NO: XXXX, DESIGNED BY: JG, DRAWN BY: JG, CHECKED BY: JG, SUBMITTED BY: JG, FILE NAME: AS SHOWN, PLOT DATE: 01/15/18, PLOT SCALE: AS SHOWN, ISSUED FOR CONSTRUCTION, BUILDING CODE SUMMARY, PLATE REFERENCE NUMBER G-005 SHEET 05 OF 126.

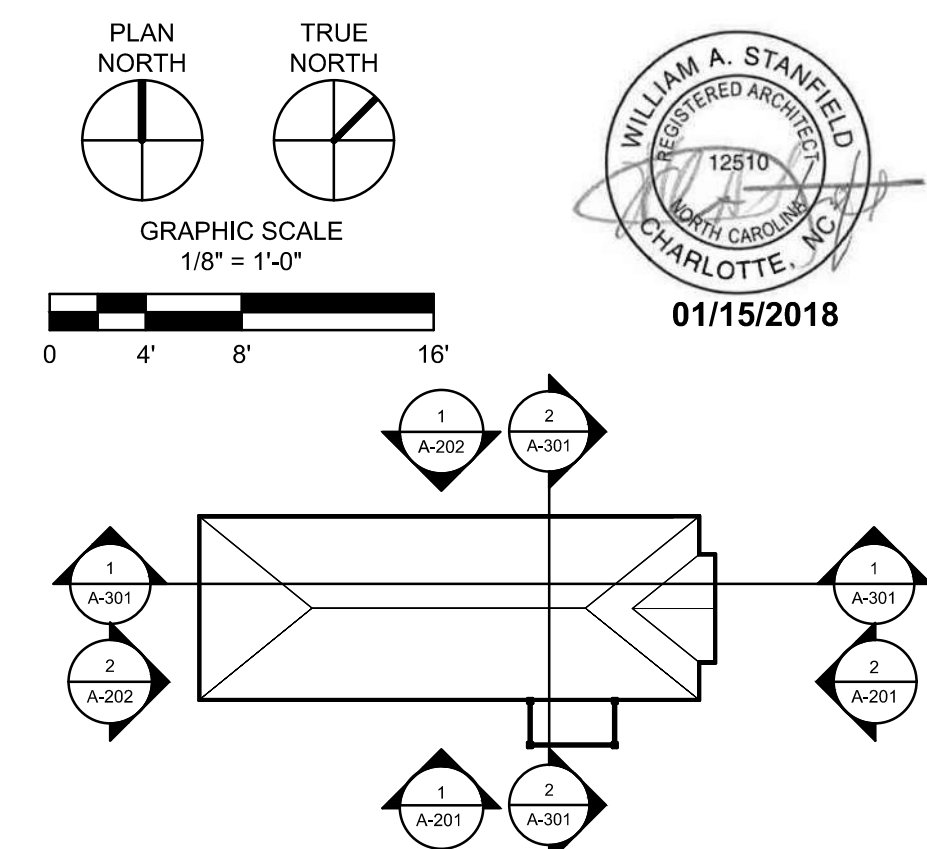

2 EAST ELEVATION - 1
 Scale: 1/8" = 1'-0"

2 EAST ELEVATION - 2 - UNDER PORTICO
 Scale: 1/8" = 1'-0"

1 NORTH ELEVATION
 Scale: 1/8" = 1'-0"

CONSTRUCTION KEYNOTES

- 1 METAL LOUVER
- 2 OUTLINE OF EXTERIOR EQUIPMENT YARD FENCE
- 3 4" ALUM. METAL DOWNSPOUT
- 4 BRICK QUOINS (SEE MASONRY DETAILS SHEET A-503)
- 5 "TEMPLE OF THE WINDS" COLUMN (SEE COLUMN DETAILS SHEET A-503)
- 6 "TEMPLE OF THE WINDS" PILASTER (SEE COLUMN DETAILS SHEET A-405)
- 7 ASPHALT SHINGLE ROOF
- 8 EXPANTION JOINT

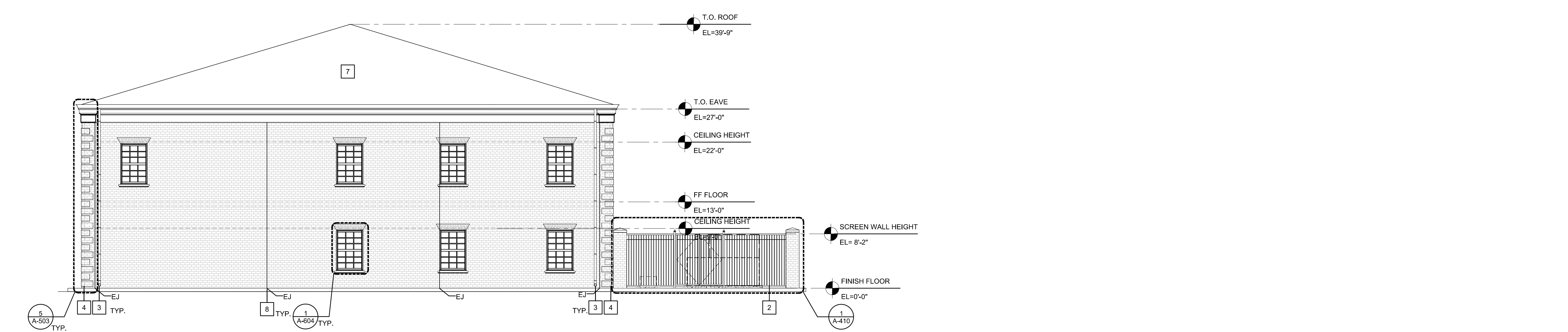
EXTERNAL MATERIAL LEGEND

ROOF	GROUT
APS-1 MANUF.: GAF MATERIALS CORP. PRODUCT: TIMBERLINE ULTRA COLOR: ASPHALT SHINGLES	GRT-1 MANUF.: GIANT PRODUCT: MASONRY CEMENT COLOR: LIGHT GRAY (TO MATCH EXIST. ON CAMPUS)
GUTTERS / DOWNSPOUTS	WINDOWS
GUT-1 MANUF.: T.B.D. PRODUCT: ALUMINUM, WHITE	WIND-1 MANUF.: PEERLESS PRODUCT: FIXED THERMAL ALUMINUM WINDOW MODEL: G641/AW-PG70-FW
FASCIA / TRIMS	EXT. DOOR FRAMES / METAL
FAC-1/TRIMS MANUF.: MELTON CLASSICS INC PRODUCT: T.B.D.	EDOR-1 MANUF.: XXXX PRODUCT: XXX COLOR: XXX
COLUMNS	
COL-1 MANUF.: MELTON CLASSICS INC. PRODUCT: "TEMPLE OF THE WINDS"	
PILASTERS	
PIL-1 MANUF.: MELTON CLASSICS INC. PRODUCT: "TEMPLE OF THE WINDS"	
BRICK MASONRY	
BRK-1 MANUF.: STATESVILLE BRICK PRODUCT: RED ROYAL SPECIAL	

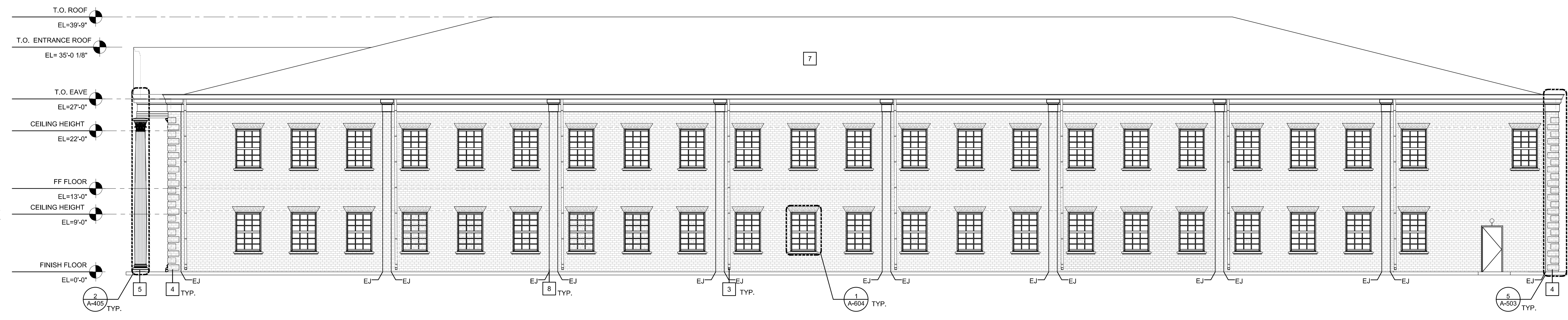




ADMINISTRATIVE ANNEX BUILDING
 UNIVERSITY OF NORTH CAROLINA - WILMINGTON
 622 MACMILLAN AVENUE, WILMINGTON, NC

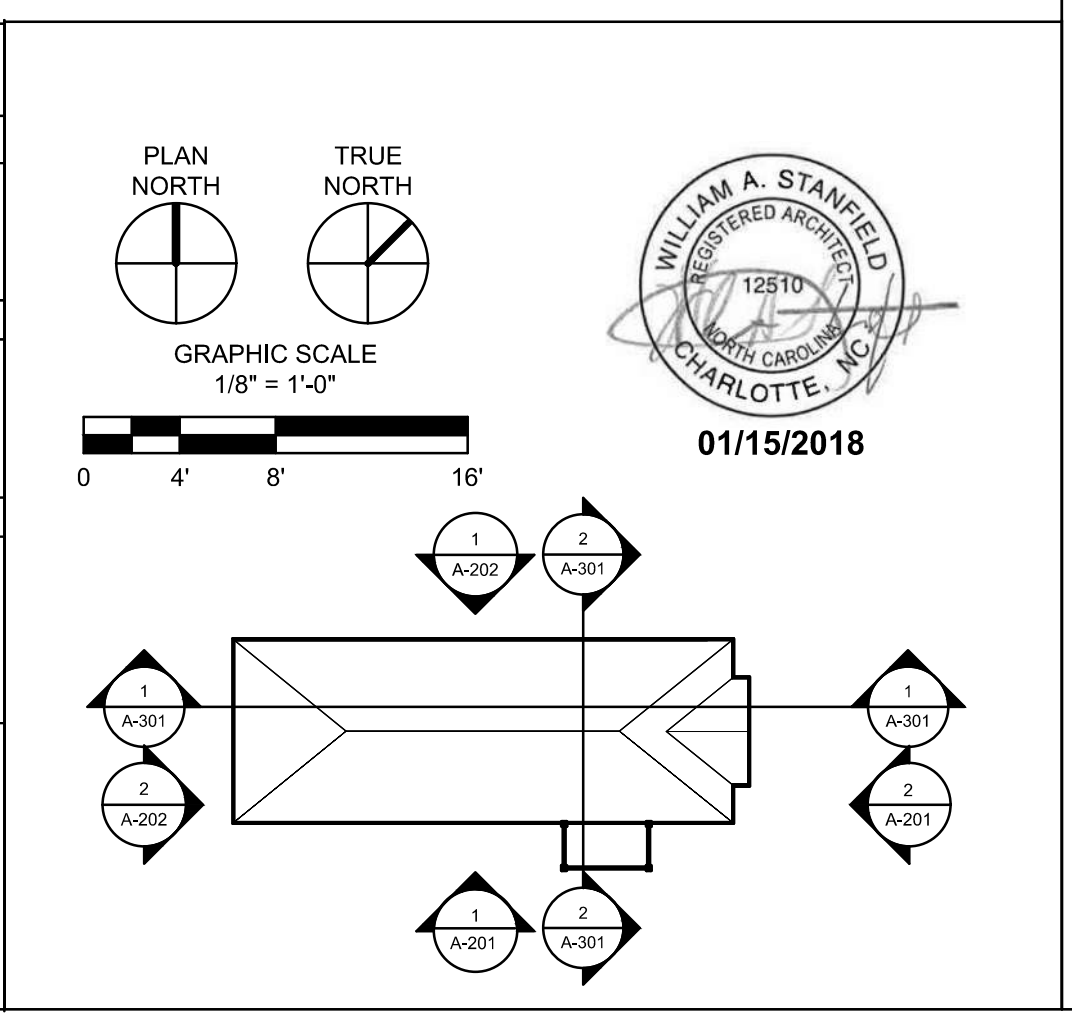


2 WEST ELEVATION
 Scale: 1/8" = 1'-0"



1 SOUTH ELEVATION
 Scale: 1/4" = 1'-0"

CONSTRUCTION KEYNOTES		EXTERNAL MATERIAL LEGEND	
1 METAL LOUVER		ROOF APS-1 MANUF.: GAF MATERIALS CORP. PRODUCT: TIMBERLINE ULTRA COLOR: ASPHALT SHINGLES	GROUT GRT-1 MANUF.: GIANT PRODUCT: MASONRY CEMENT COLOR: LIGHT GRAY (TO MATCH EXIST. ON CAMPUS)
2 OUTLINE OF EXTERIOR EQUIPMENT YARD FENCE		GUTTERS / DOWNSPOUTS GUT-1 MANUF.: T.B.D. PRODUCT: ALUMINUM, WHITE	WINDOWS WIND-1 MANUF.: PEERLESS PRODUCT: FIXED THERMAL ALUMINUM WINDOW MODEL:G641/AW-PG70-FW
3 4" ALUM. METAL DOWNSPOUT		FASCIA/ TRIMS FAC-1/TRIMS MANUF.: MELTON CLASSICS INC PRODUCT: T.B.D.	EXT. DOOR FRAMES / METAL EDOR-1 MANUF.:XXXX PRODUCT: XXX COLOR:XXX
4 BRICK QUOINS (SEE MASONRY DETAILS SHEET A-503)		COLUMNS COL-1 MANUF.: MELTON CLASSICS INC. PRODUCT: "TEMPLE OF THE WINDS"	
5 "TEMPLE OF THE WINDS" COLUMN (SEE COLUMN DETAILS SHEET A-405)		PILASTERS PIL-1 MANUF.: MELTON CLASSICS INC. PRODUCT: "TEMPLE OF THE WINDS"	
6 "TEMPLE OF THE WINDS" PILASTER (SEE COLUMN DETAILS SHEET A-405)		BRICK MASONRY BRK-1 MANUF.: STATESVILLE BRICK PRODUCT: RED ROYAL SPECIAL	
7 ASPHALT SHINGLE ROOF			
8 EXPANTION JOINT			





NO.	DATE	DESCRIPTION
1	07/26/18	RC
2	05/19/18	RC
3	02/11/18	RC
4	01/25/18	RC
5	11/17/17	RC

DESIGNED BY: DATE: 05/15/2018
 RC
 DWN BY: CWD BY: 17-18303-01A
 DATE: 05/15/2018
 RC
 ZAPATA, L.B. P.L.C.
 FILE NAME: Site Plan_20180430.dgn
 CIV. C10 - Site Plan_20180430.dgn
 SIZE: AS SHOWN
 ARCH D AS SHOWN
 PLOT DATE: 05/15/18



ADMINISTRATIVE ANNEK BUILDING
 UNIVERSITY OF NORTH CAROLINA - WILMINGTON
 622 MACMILLAN AVENUE, WILMINGTON, NC

PLATE REFERENCE NUMBER
C-101
 SHEET

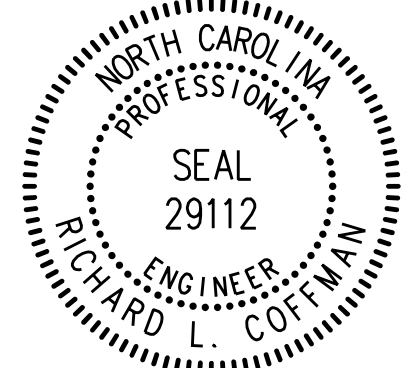
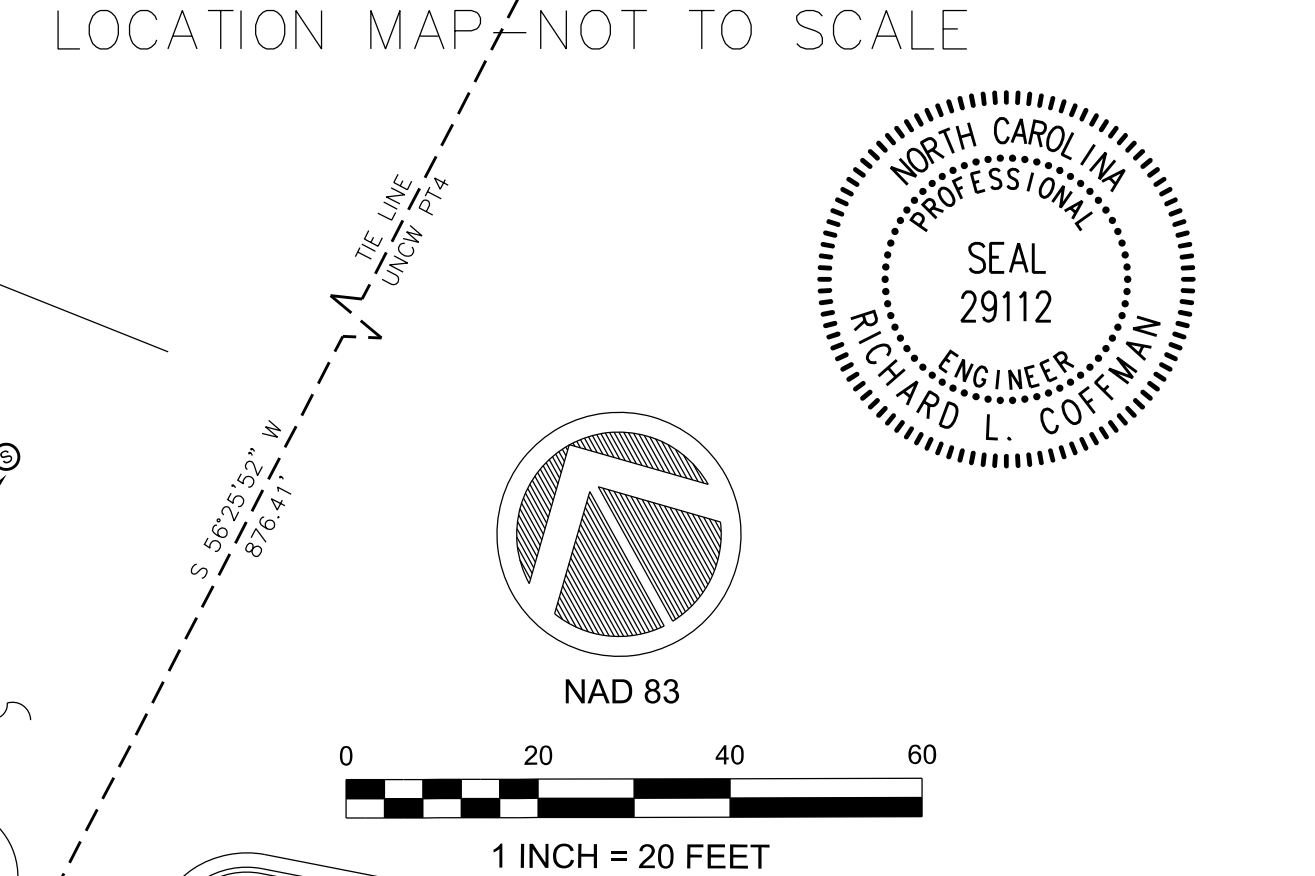
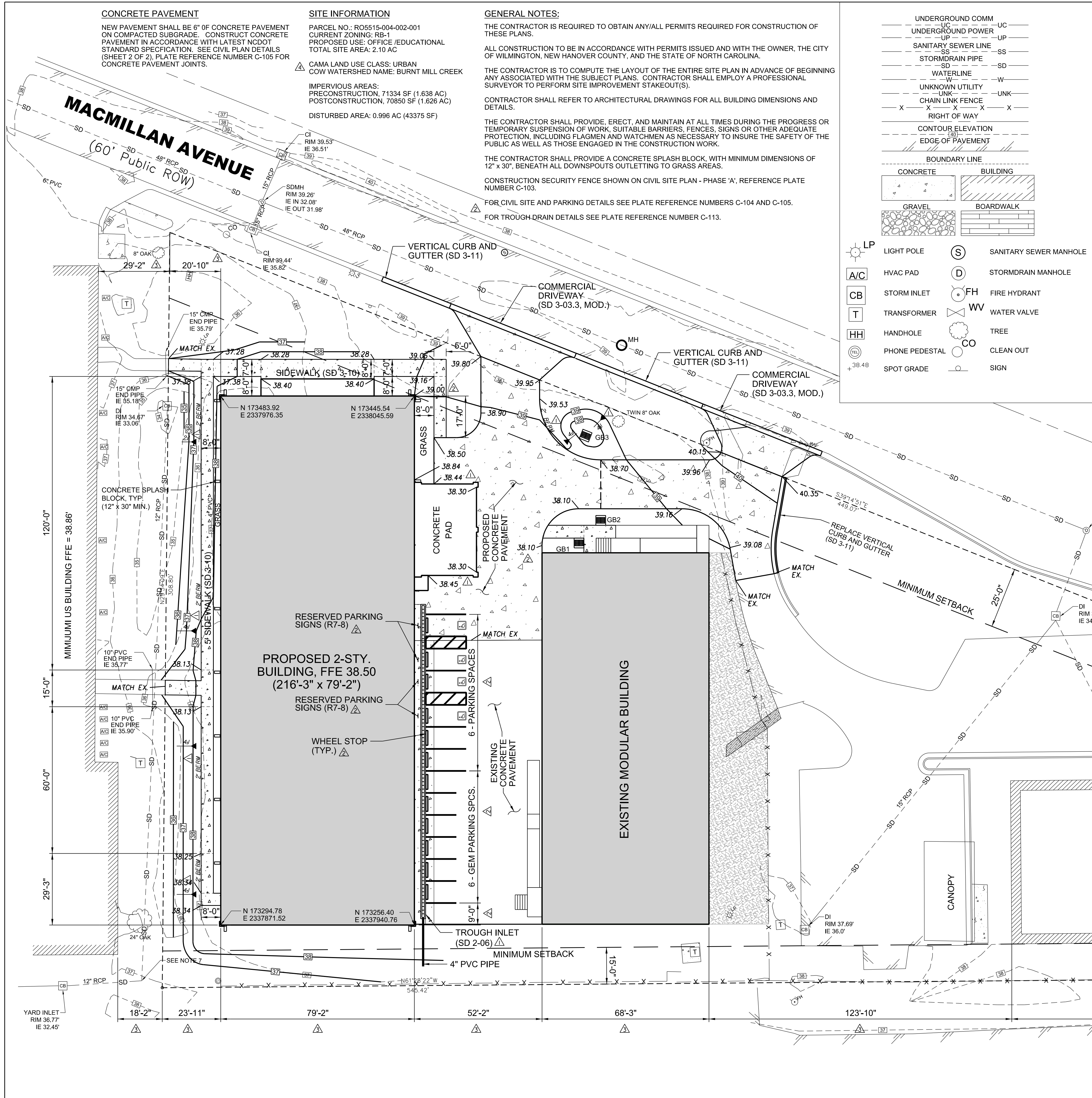


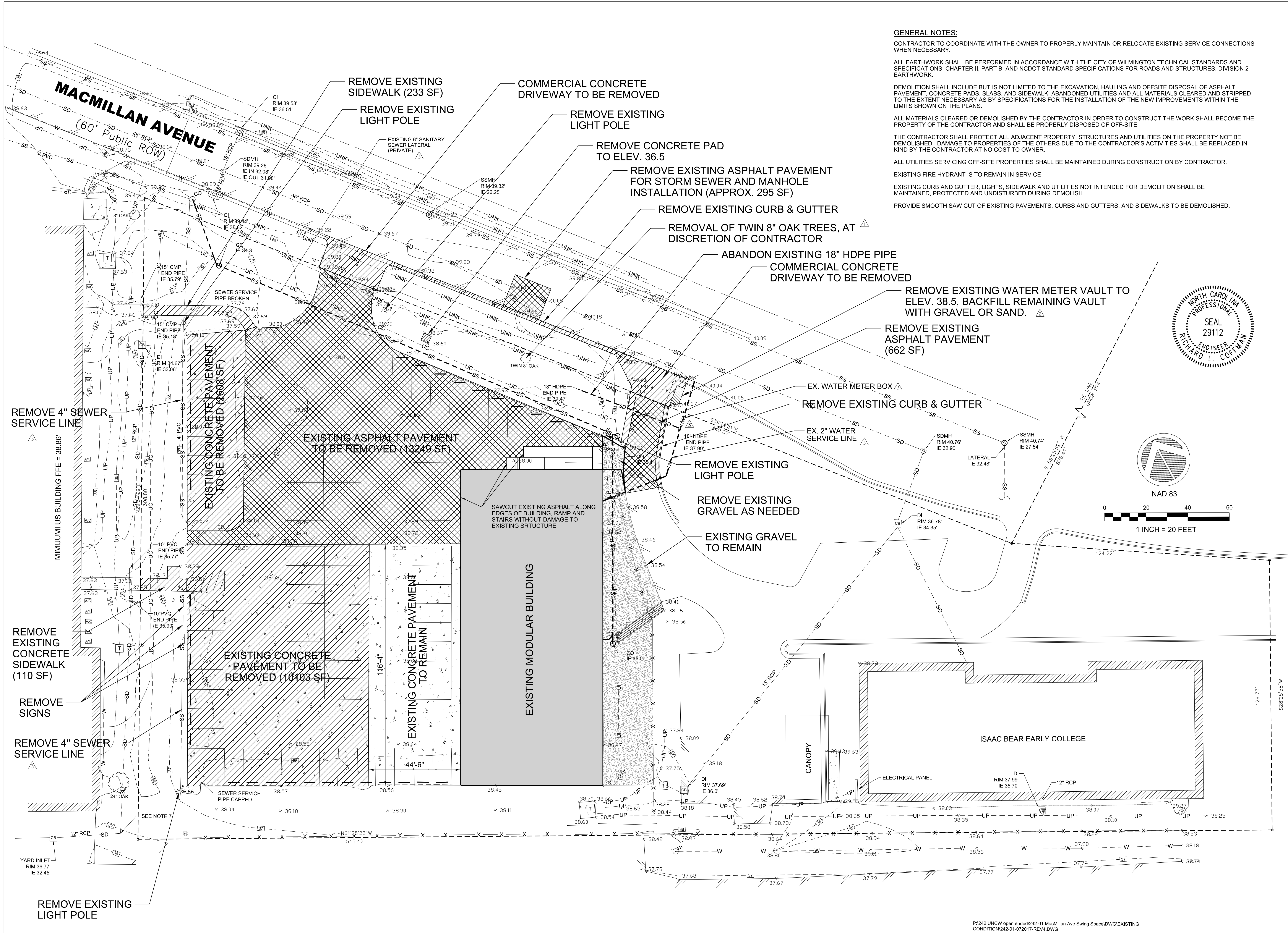
CONCRETE PAVEMENT
 NEW PAVEMENT SHALL BE 6" OF CONCRETE PAVEMENT ON COMPACTED SUBGRADE. CONSTRUCT CONCRETE PAVEMENT IN ACCORDANCE WITH LATEST NCDOT STANDARD SPECIFICATION. SEE CIVIL PLAN DETAILS (SHEET 2 OF 2). PLATE REFERENCE NUMBER C-105 FOR CONCRETE PAVEMENT JOINTS.

SITE INFORMATION
 PARCEL NO.: R05515-004-002-001
 CURRENT ZONING: RB-1
 PROPOSED USE: OFFICE/EDUCATIONAL
 TOTAL SITE AREA: 2.10 AC
 CAMA LAND USE CLASS: URBAN
 COW WATERSHED NAME: BURNT MILL CREEK
 IMPERVIOUS AREAS:
 PRECONSTRUCTION, 71334 SF (1.638 AC)
 POSTCONSTRUCTION, 70850 SF (1.626 AC)
 DISTURBED AREA: 0.996 AC (43375 SF)

GENERAL NOTES:
 THE CONTRACTOR IS REQUIRED TO OBTAIN ANY/ALL PERMITS REQUIRED FOR CONSTRUCTION OF THESE PLANS.
 ALL CONSTRUCTION TO BE IN ACCORDANCE WITH PERMITS ISSUED AND WITH THE OWNER, THE CITY OF WILMINGTON, NEW HANOVER COUNTY, AND THE STATE OF NORTH CAROLINA.
 THE CONTRACTOR IS TO COMPUTE THE LAYOUT OF THE ENTIRE SITE PLAN IN ADVANCE OF BEGINNING ANY ASSOCIATED WITH THE SUBJECT PLANS. CONTRACTOR SHALL EMPLOY A PROFESSIONAL SURVEYOR TO PERFORM SITE IMPROVEMENT STAKEOUT(S).
 CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS FOR ALL BUILDING DIMENSIONS AND DETAILS.
 THE CONTRACTOR SHALL PROVIDE, ERECT, AND MAINTAIN AT ALL TIMES DURING THE PROGRESS OR TEMPORARY SUSPENSION OF WORK, SUITABLE BARRIERS, FENCES, SIGNS OR OTHER ADEQUATE PROTECTION, INCLUDING FLAGMEN AND WATCHMEN AS NECESSARY TO INSURE THE SAFETY OF THE PUBLIC AS WELL AS THOSE ENGAGED IN THE CONSTRUCTION WORK.
 THE CONTRACTOR SHALL PROVIDE A CONCRETE SPLASH BLOCK, WITH MINIMUM DIMENSIONS OF 12" X 30", BENEATH ALL DOWNSPOUTS OUTLETTING TO GRASS AREAS.
 CONSTRUCTION SECURITY FENCE SHOWN ON CIVIL SITE PLAN - PHASE 'A', REFERENCE PLATE NUMBER C-103.
 FOR CIVIL SITE AND PARKING DETAILS SEE PLATE REFERENCE NUMBERS C-104 AND C-105.
 FOR TROUGH DRAIN DETAILS SEE PLATE REFERENCE NUMBER C-113.

LEGEND:
 UNDERGROUND COMM - UC
 UNDERGROUND POWER - UP
 SANITARY SEWER LINE - SS
 STORM DRAIN PIPE - SD
 WATERLINE - W
 UNKNOWN UTILITY - UNK
 CHAIN LINK FENCE - X
 RIGHT OF WAY - RW
 CONTOUR ELEVATION - 10'
 EDGE OF PAVEMENT - EP
 BOUNDARY LINE - BL
 CONCRETE - [Symbol]
 BUILDING - [Symbol]
 GRAVEL - [Symbol]
 BOARDWALK - [Symbol]
 LP - LIGHT POLE
 HVAC PAD - [Symbol]
 STORM INLET - [Symbol]
 TRANSFORMER - [Symbol]
 HANDHOLE - [Symbol]
 PHONE PEDESTAL - [Symbol]
 SPOT GRADE - [Symbol]
 SANITARY SEWER MANHOLE - [Symbol]
 STORM DRAIN MANHOLE - [Symbol]
 FIRE HYDRANT - [Symbol]
 WATER VALVE - [Symbol]
 TREE - [Symbol]
 CLEAN OUT - [Symbol]
 SIGN - [Symbol]





GENERAL NOTES:

CONTRACTOR TO COORDINATE WITH THE OWNER TO PROPERLY MAINTAIN OR RELOCATE EXISTING SERVICE CONNECTIONS WHEN NECESSARY.

ALL EARTHWORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF WILMINGTON TECHNICAL STANDARDS AND SPECIFICATIONS, CHAPTER II, PART B, AND NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES, DIVISION 2 - EARTHWORK.

DEMOLITION SHALL INCLUDE BUT IS NOT LIMITED TO THE EXCAVATION, HAULING AND OFFSITE DISPOSAL OF ASPHALT PAVEMENT, CONCRETE PADS, SLABS, AND SIDEWALK; ABANDONED UTILITIES AND ALL MATERIALS CLEARED AND STRIPPED TO THE EXTENT NECESSARY AS BY SPECIFICATIONS FOR THE INSTALLATION OF THE NEW IMPROVEMENTS WITHIN THE LIMITS SHOWN ON THE PLANS.

ALL MATERIALS CLEARED OR DEMOLISHED BY THE CONTRACTOR IN ORDER TO CONSTRUCT THE WORK SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE PROPERLY DISPOSED OF OFF-SITE.

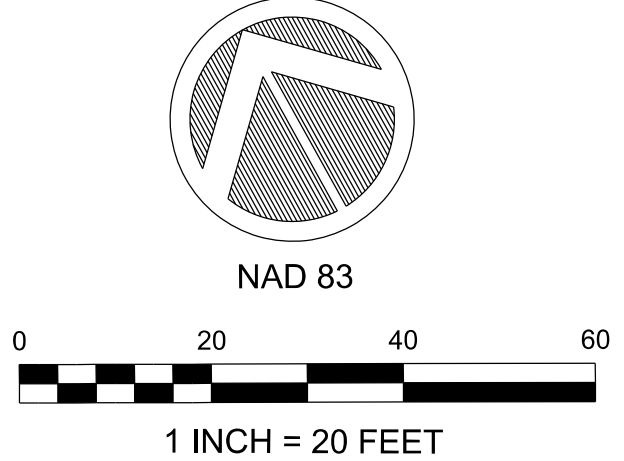
THE CONTRACTOR SHALL PROTECT ALL ADJACENT PROPERTY, STRUCTURES AND UTILITIES ON THE PROPERTY NOT BE DEMOLISHED. DAMAGE TO PROPERTIES OF THE OTHERS DUE TO THE CONTRACTOR'S ACTIVITIES SHALL BE REPLACED IN KIND BY THE CONTRACTOR AT NO COST TO OWNER.

ALL UTILITIES SERVICING OFF-SITE PROPERTIES SHALL BE MAINTAINED DURING CONSTRUCTION BY CONTRACTOR.

EXISTING FIRE HYDRANT IS TO REMAIN IN SERVICE

EXISTING CURB AND GUTTER, LIGHTS, SIDEWALK AND UTILITIES NOT INTENDED FOR DEMOLITION SHALL BE MAINTAINED, PROTECTED AND UNDISTURBED DURING DEMOLITION.

PROVIDE SMOOTH SAW CUT OF EXISTING PAVEMENTS, CURBS AND GUTTERS, AND SIDEWALKS TO BE DEMOLISHED.



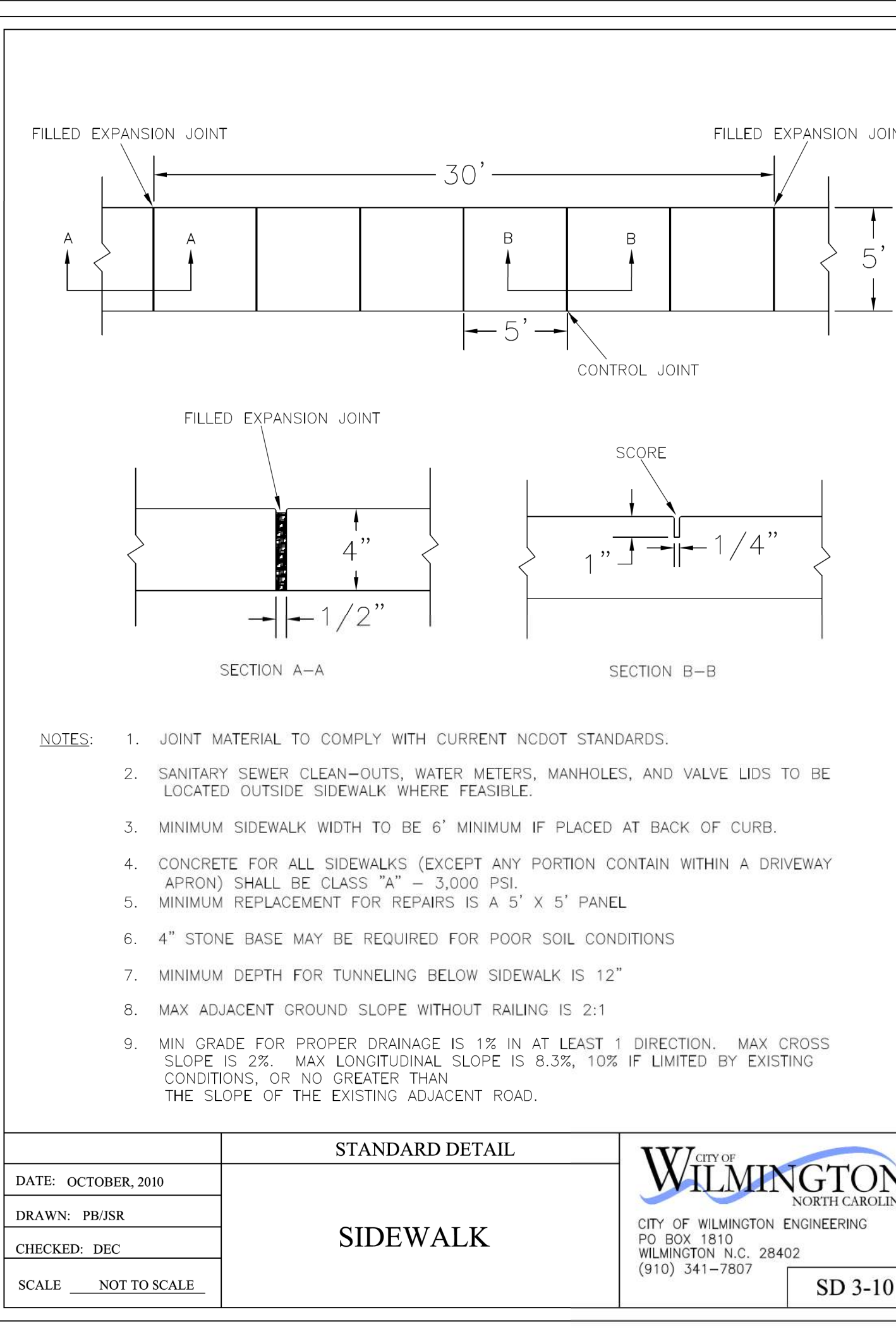
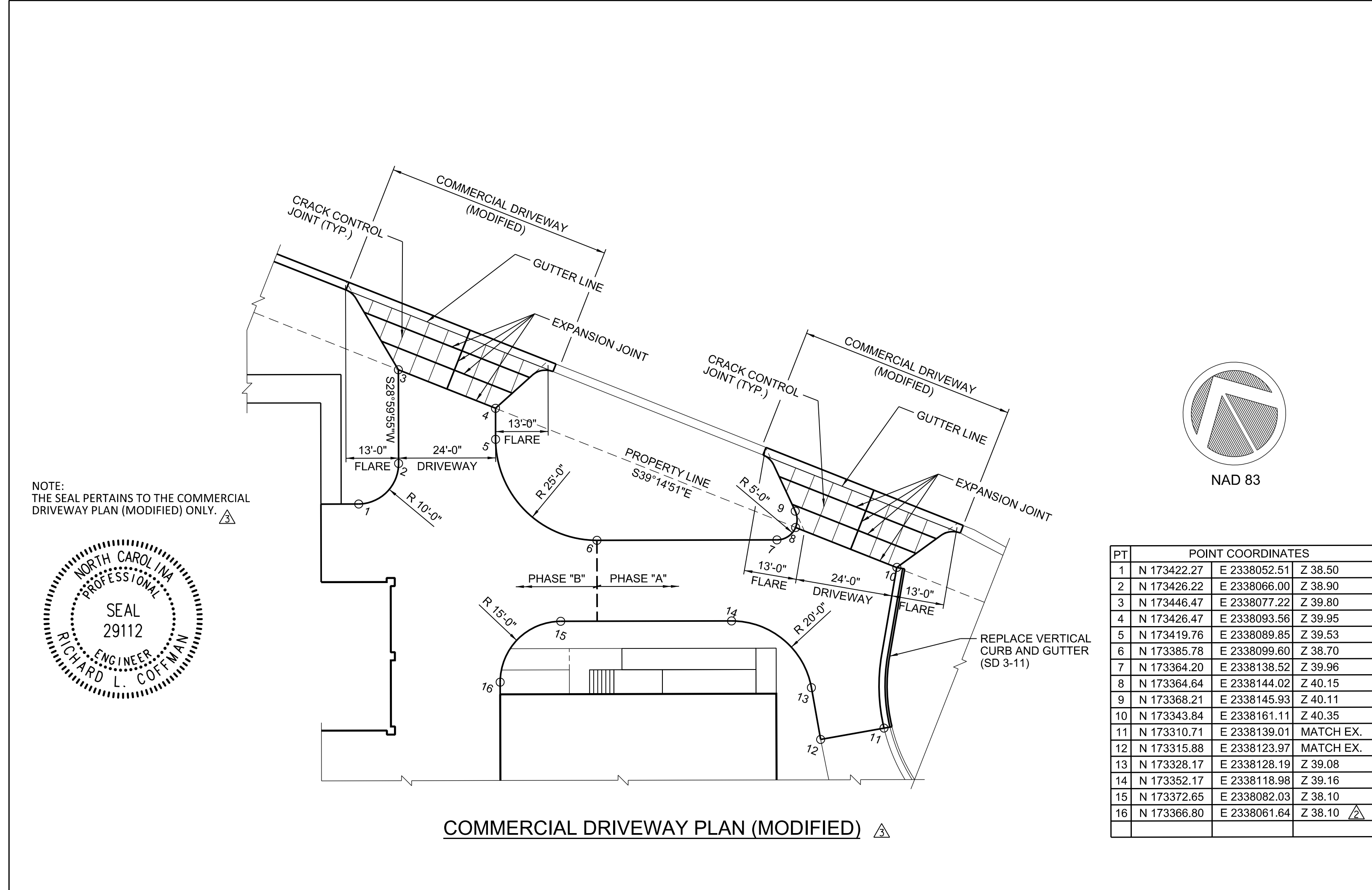
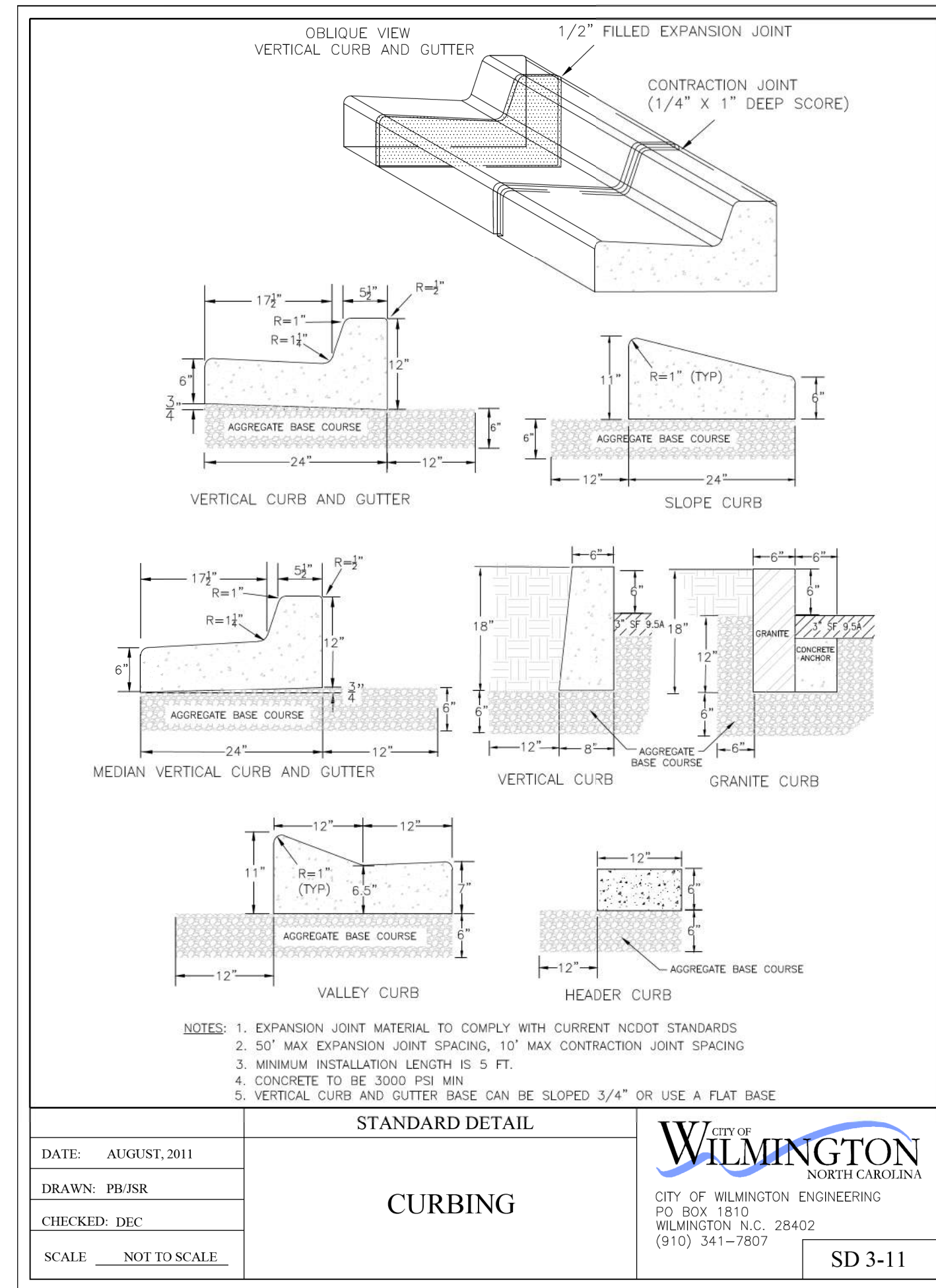
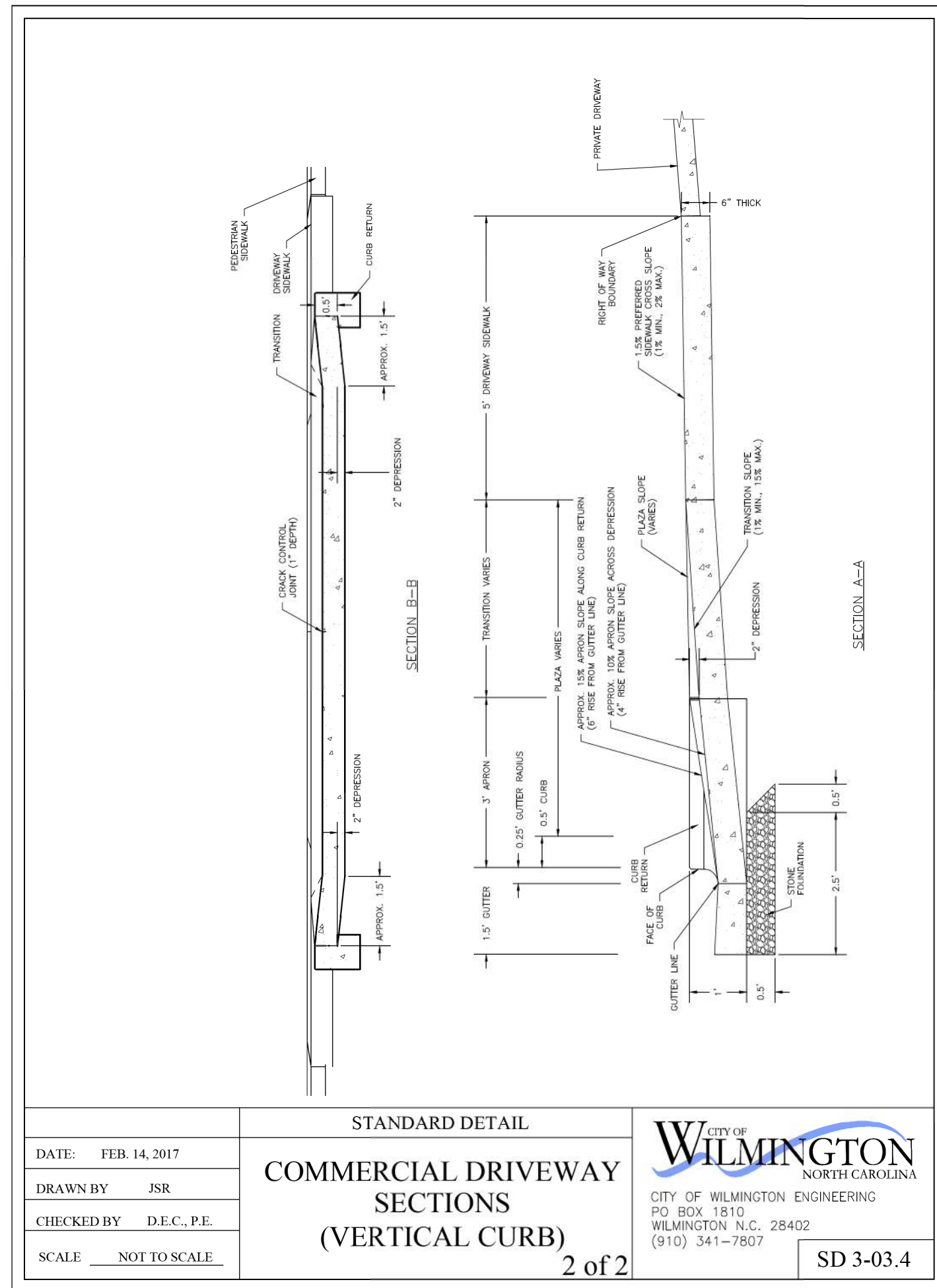
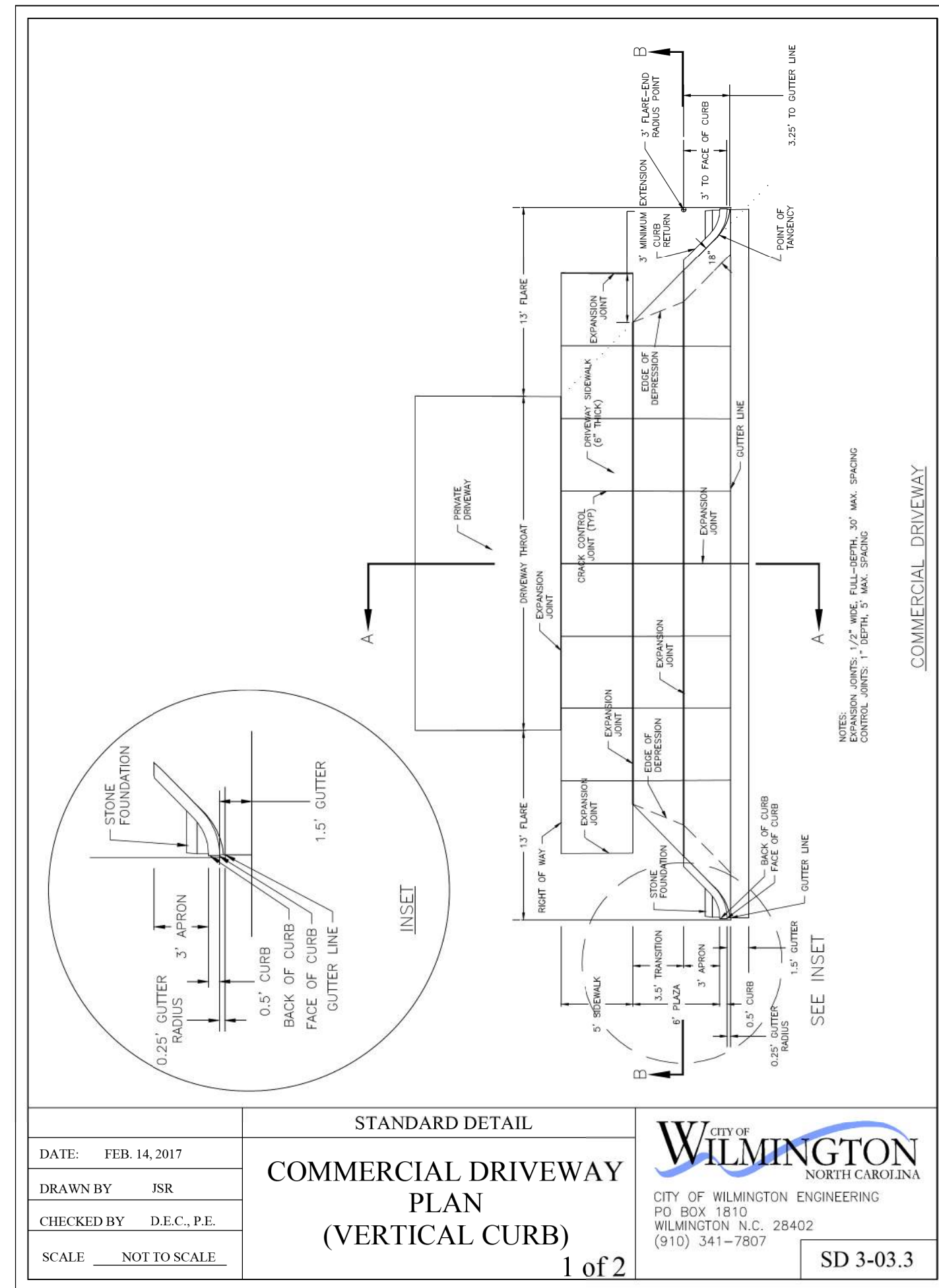
DATE:	05/15/2018
DESIGNED BY:	RC
DRAWN BY:	RC
CHECKED BY:	RC
DATE:	05/15/18
FILE NAME:	C:\102_Site Demolition Plan_20180430.dgn
SIZE:	11/17/17
ARCH D:	AS SHOWN
PLAT DATE:	05/15/18
PLAT SCALE:	AS SHOWN
SCO ID #:	17-18303-01A
SYMBOL:	

ZAPATA LAB, P.L.L.C.

ADMINISTRATIVE ANEXY BUILDING
 UNIVERSITY OF NORTH CAROLINA - WILMINGTON
 622 MACMILLAN AVENUE, WILMINGTON, NC

SITE DEMOLITION PLAN

PLATE REFERENCE NUMBER
C-102
 SHEET



UNCW

DESIGNED BY: RC
 DATE: 05/15/2018

SCO ID #: 17-18303-01A

FILE NAME: CIV_C104_Site Plan Details_20180430.dgn
 SIZE: AS SHOWN
 PLOT DATE: 05/15/18

ADMINISTRATIVE ANEX BUILDING
 UNIVERSITY OF NORTH CAROLINA - WILMINGTON
 622 MACMILLAN AVENUE, WILMINGTON, NC

CIVIL SITE DETAILS (SHEET 1 OF 2)

PLATE REFERENCE NUMBER
C-104
 SHEET

REVISIONS:
 05/15/18 RC
 02/12/18 RC
 11/17/17 RC

REVISED THE COMMERCIAL DRIVEWAY PLAN (MODIFIED) AND ROTATED PLAN TO MATCH SITE PLAN LAYOUT
 CHANGED ELEVATION OF POINT 16
 ISSUED FOR CONSTRUCTION

SIGN NOTES: ⚠

MOUNT TYPE "E" SIGN ON A SINGLE "U" CHANNEL POST IN ACCORDANCE WITH NCDOT STANDARD DWG. NO. 904.50.

RESERVED PARKING SIGN SHALL BE PLACED AT 5 FT. ABOVE PARKING SURFACE AND A MINIMUM OF 2.5 FT. FROM WHEEL STOP, OUTSIDE THE LIMITS VEHICLE OVERHANG.

CONCRETE PAVEMENT NOTES:

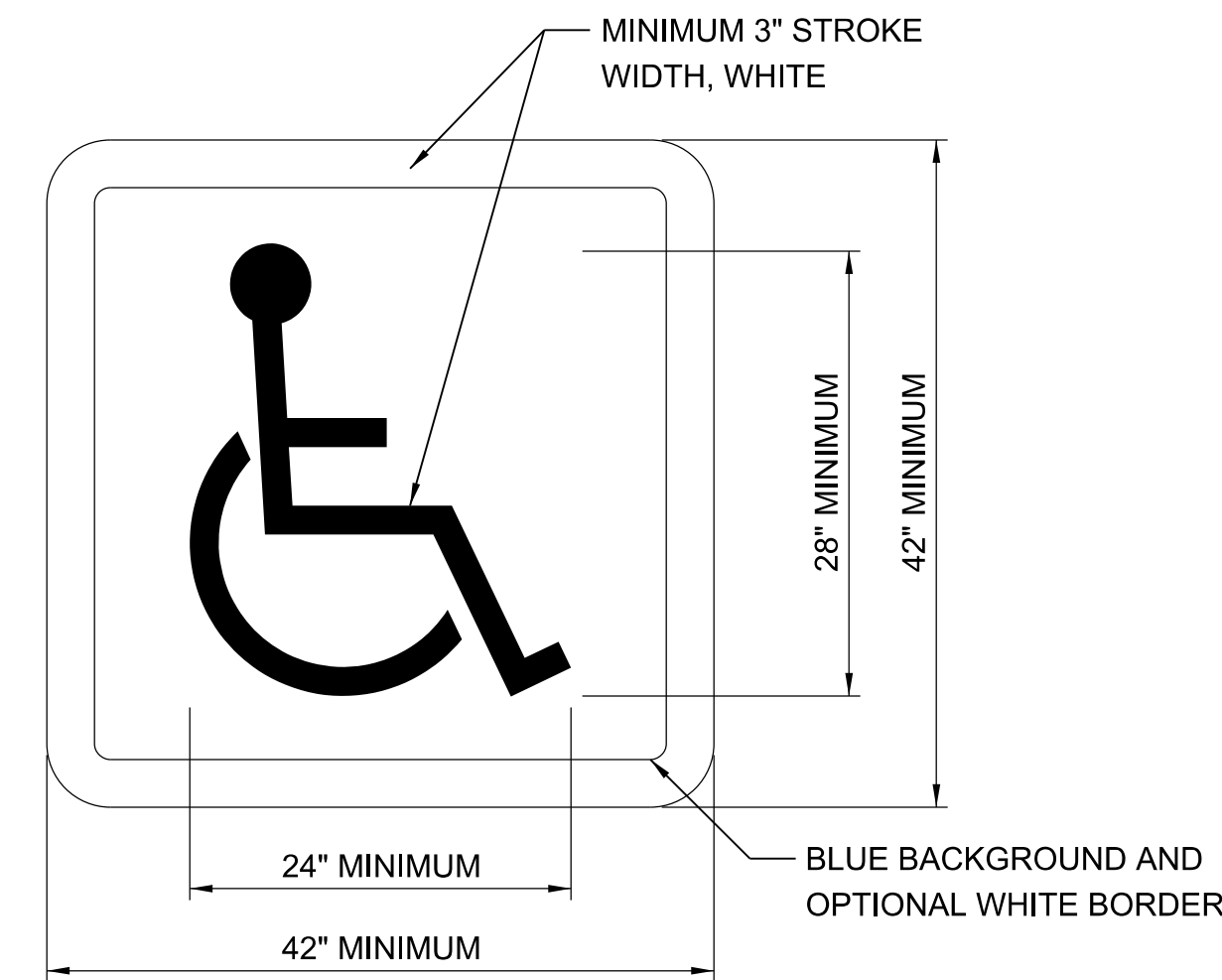
CONSTRUCTION CONCRETE PAVEMENT JOINTS IN ACCORDANCE WITH NCDOT STANDARD DRAWING NUMBER 700.01 AND 700.02 AND THE NCDOT STANDARD SPECIFICATIONS.

THE DOWELS MAY BE ELIMINATED FROM THE CONSTRUCTION JOINT BETWEEN EXISTING CONCRETE AND NEW CONCRETE PAVEMENT.

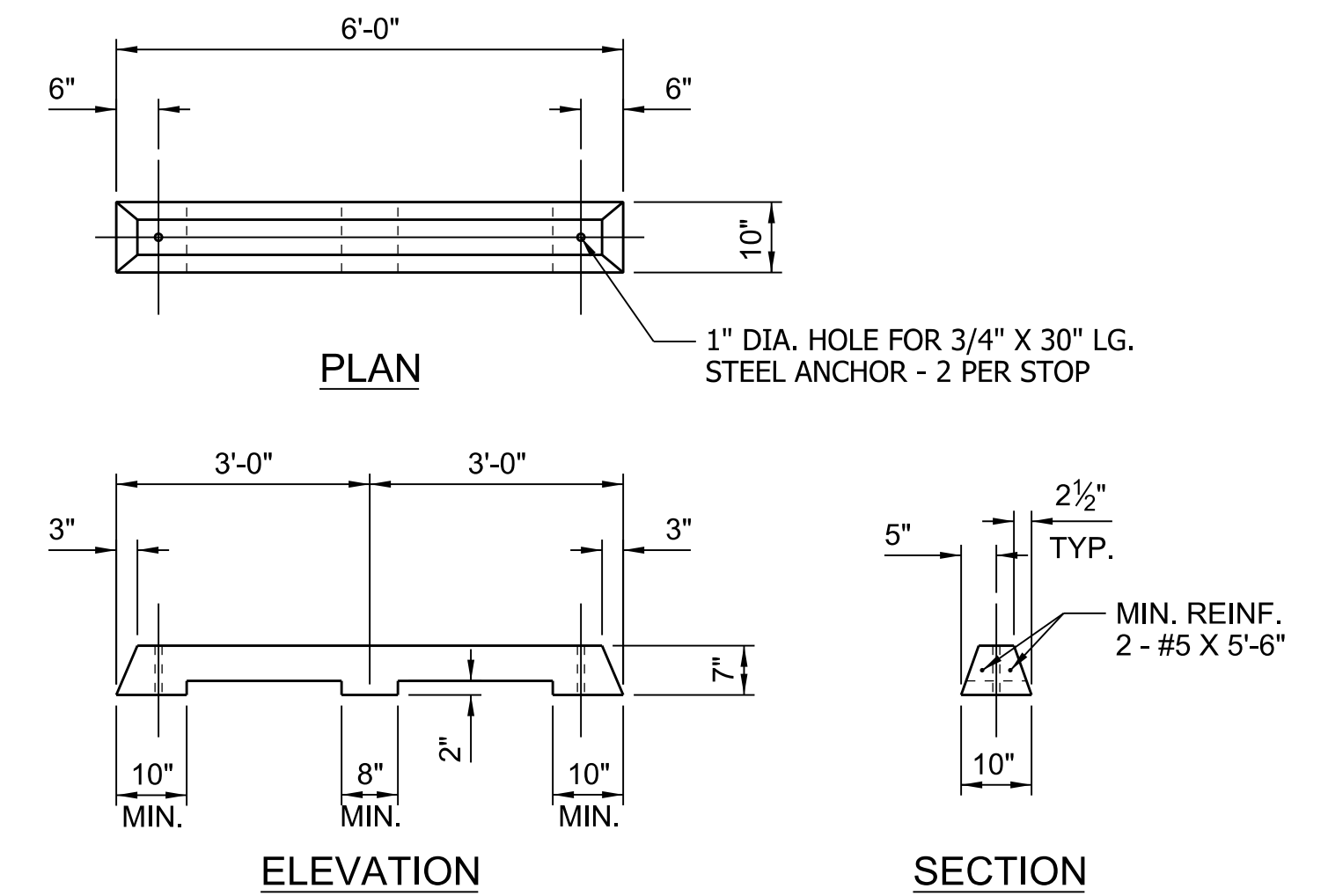


STD NUMBER: R7-8
 SIZE: 12" X 18"
 COPY COLOR: GREEN (RETROREFL)
 2.0" C, 1.5" C
 BACKGROUND COLOR: WHITE (RETROREFL)
 SYMBOL COLOR: WHITE SYMBOL ON BLUE (RETROREFL)
 MARGIN: 0.375"
 BORDER: 0.375"
 RADIUS: 1.50"

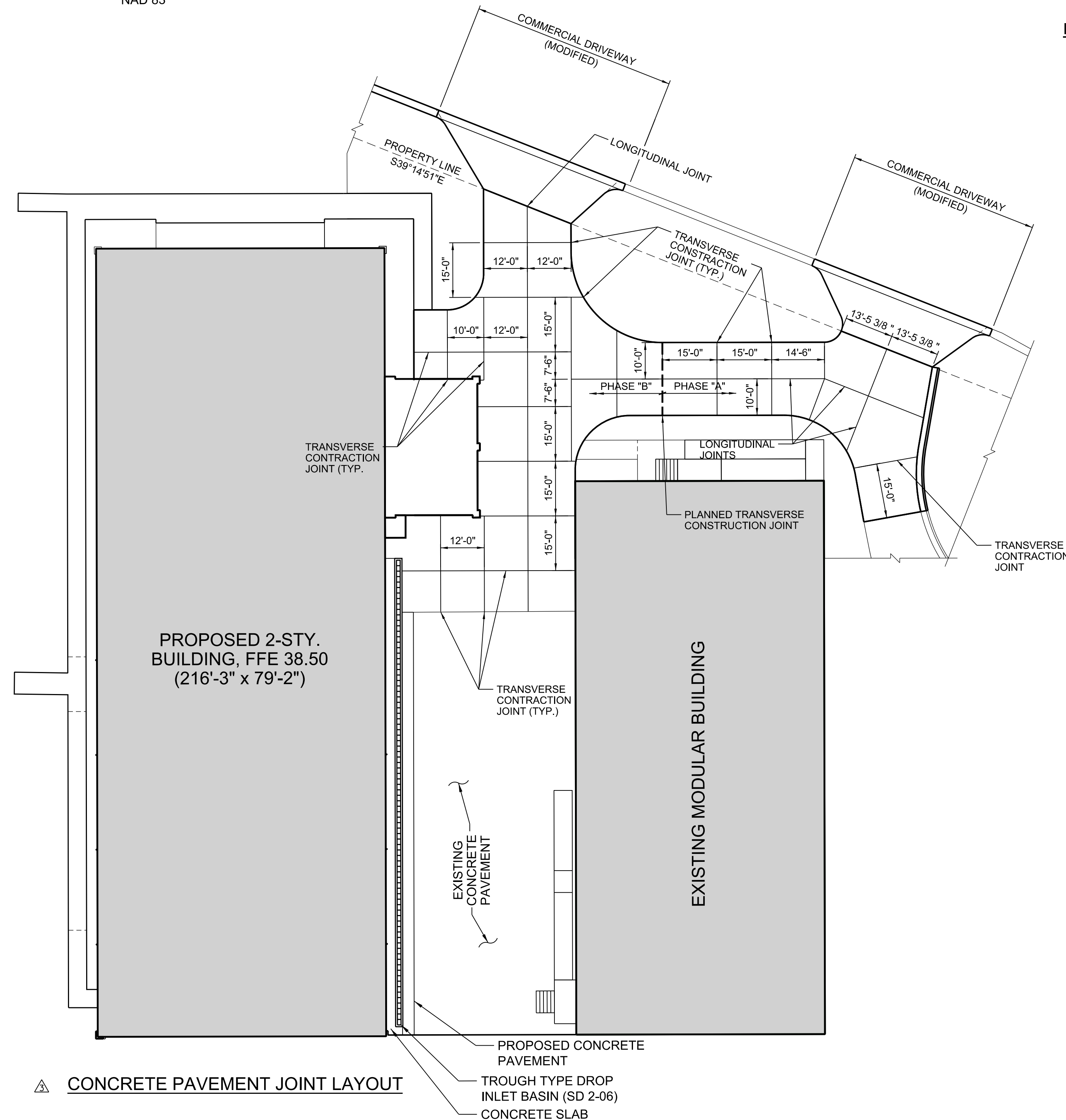
RESERVED PARKING SIGN ⚠



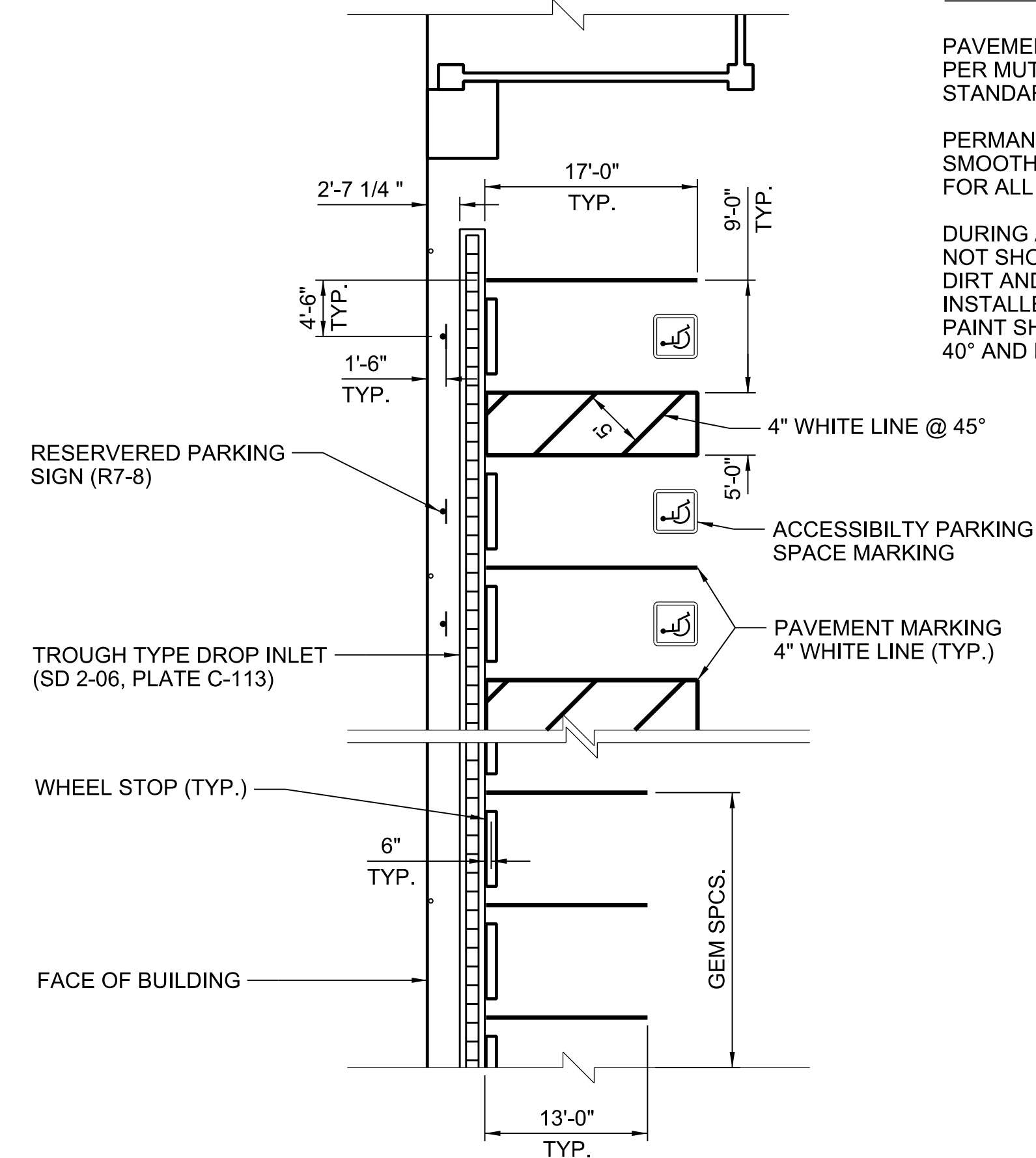
INTERNATIONAL SYMBOL OF ACCESSIBILITY
 PARKING SPACE MARKING ⚠



6\"/>



⚠ CONCRETE PAVEMENT JOINT LAYOUT



PARKING SPACES DETAIL ⚠

PAVEMENT MARKING NOTES: ⚠

PAVEMENT MARKINGS AND SYMBOLS SHALL BE DESIGNED PER MUTCD AND INSTALLED IN ACCORDANCE WITH NCDOT STANDARD SPECIFICATIONS, DIVISION 12.

PERMANENT MARKINGS WILL BE GENERALLY UNIFORM AND SMOOTH AND WILL CONSIST OF 120 MILS OF THERMOPLASTIC FOR ALL LINES AND SYMBOLS.

DURING APPLICATION THE EXISTING PAVEMENT SHALL NOT SHOW SIGNS OF MOISTURE AND BE CLEAN, FREE OF DIRT AND OIL, ETC. THERMOPLASTIC SHALL ONLY BE INSTALLED WHERE PAVEMENT IS 50° F AND RISING. PAINT SHALL ONLY BE INSTALLED WHERE PAVEMENT IS 40° AND RISING.



RC	RC	RC	RC
06/15/18	02/15/18	11/17/17	RC
ROTATED CONCRETE PAVEMENT JOINT LAYOUT TO MATCH SITE PLAN LAYOUT			
ADDED PARKING SPACE, SIGN, AND PAVEMENT MARKING DETAILS			
ISSUED FOR CONSTRUCTION			
⚠	⚠	⚠	SYMBOL

DESIGNED BY: [Redacted]
 DATE: 05/15/2018
 SCO ID #: 17-18303-01A
 CHECKED BY: [Redacted]
 DATE: [Redacted]
 DESIGNED BY: [Redacted]
 DATE: [Redacted]
 FILE NAME: CIVIL_C105_Site Plan Details_20180430.dgn
 SIZE: [Redacted]
 ARCH D: AS SHOWN
 ARCH I: AS SHOWN
 ARCH O: AS SHOWN
 ARCH P: AS SHOWN
 ARCH R: AS SHOWN
 ARCH S: AS SHOWN
 ARCH T: AS SHOWN
 ARCH U: AS SHOWN
 ARCH V: AS SHOWN
 ARCH W: AS SHOWN
 ARCH X: AS SHOWN
 ARCH Y: AS SHOWN
 ARCH Z: AS SHOWN

ADMINISTRATIVE ANNEY BUILDING
 UNIVERSITY OF NORTH CAROLINA - WILMINGTON
 622 MACMILLAN AVENUE, WILMINGTON, NC
 CIVIL SITE DETAILS (SHEET 2 OF 2)

PLATE REFERENCE NUMBER
C-105
 SHEET

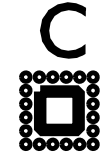


RC	05/15/18	RC
RC	07/25/18	RC
RC	11/17/17	RC

DESIGNED BY:	RC	DATE:	05/15/2018
CHKD BY:	RC	SCO ID #:	17-18303-01A
DATE:	05/15/2018	ISSUED BY:	ZAPATA, L.B. P.L.L.C.
FILE NAME:	CIV. C-106 - Erosion Control Plan_20180515.dgn	PLANT DATE:	05/15/18
ARCH D:	AS SHOWN	PLANT SCALE:	AS SHOWN

ADMINISTRATIVE ANNEX BUILDING
UNIVERSITY OF NORTH CAROLINA - WILMINGTON
622 MACMILLAN AVENUE, WILMINGTON, NC

PLATE REFERENCE NUMBER
C-106
SHEET

LEGEND

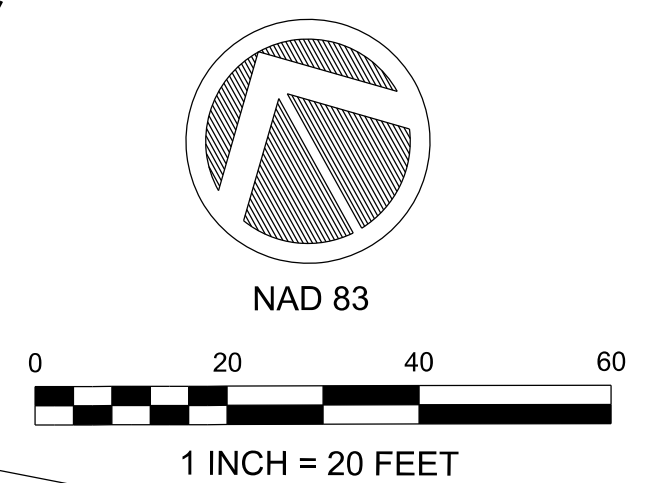
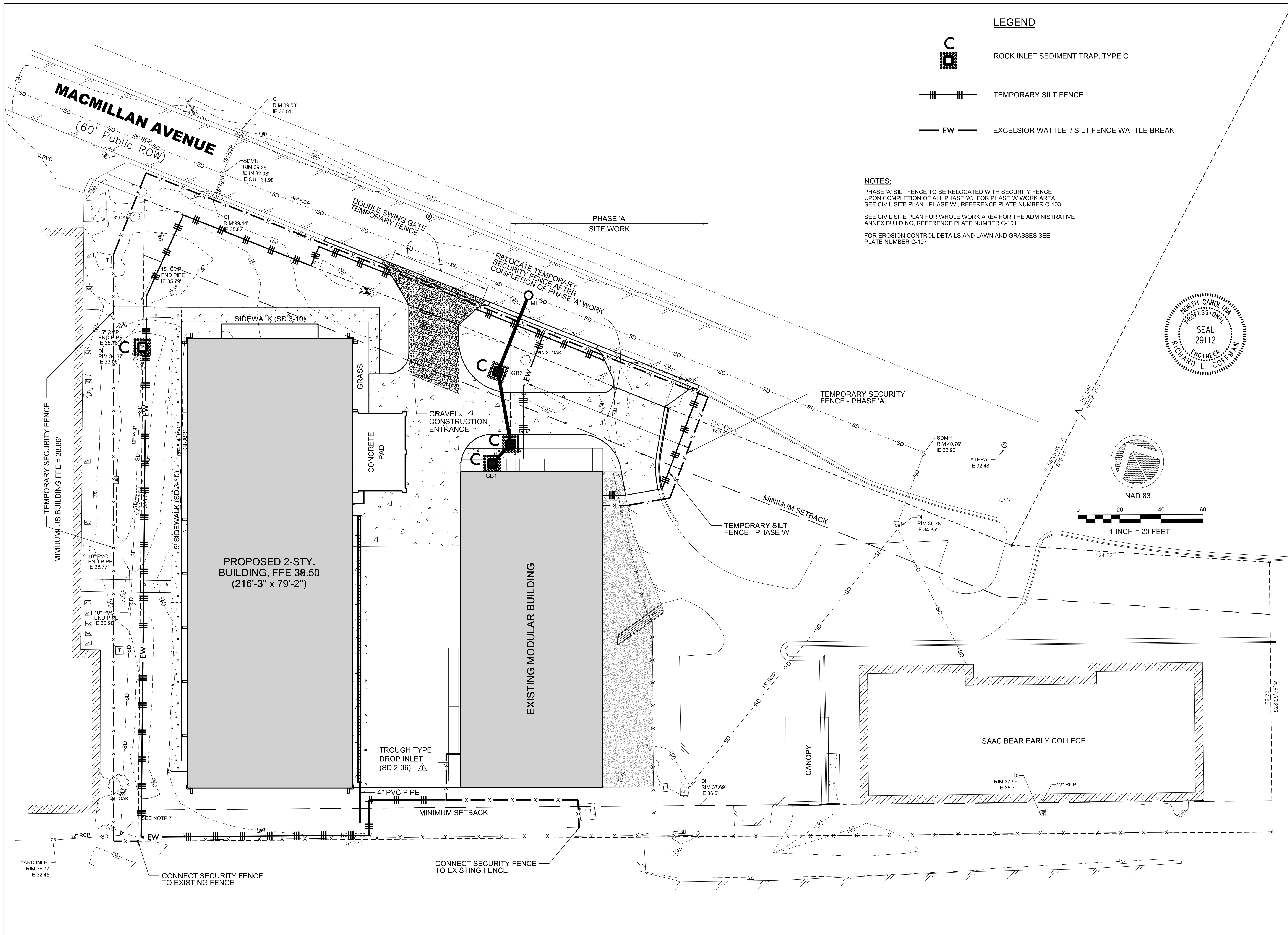
-  ROCK INLET SEDIMENT TRAP, TYPE C
-  TEMPORARY SILT FENCE
-  EXCELSIOR WATTLE / SILT FENCE WATTLE BREAK

NOTES:

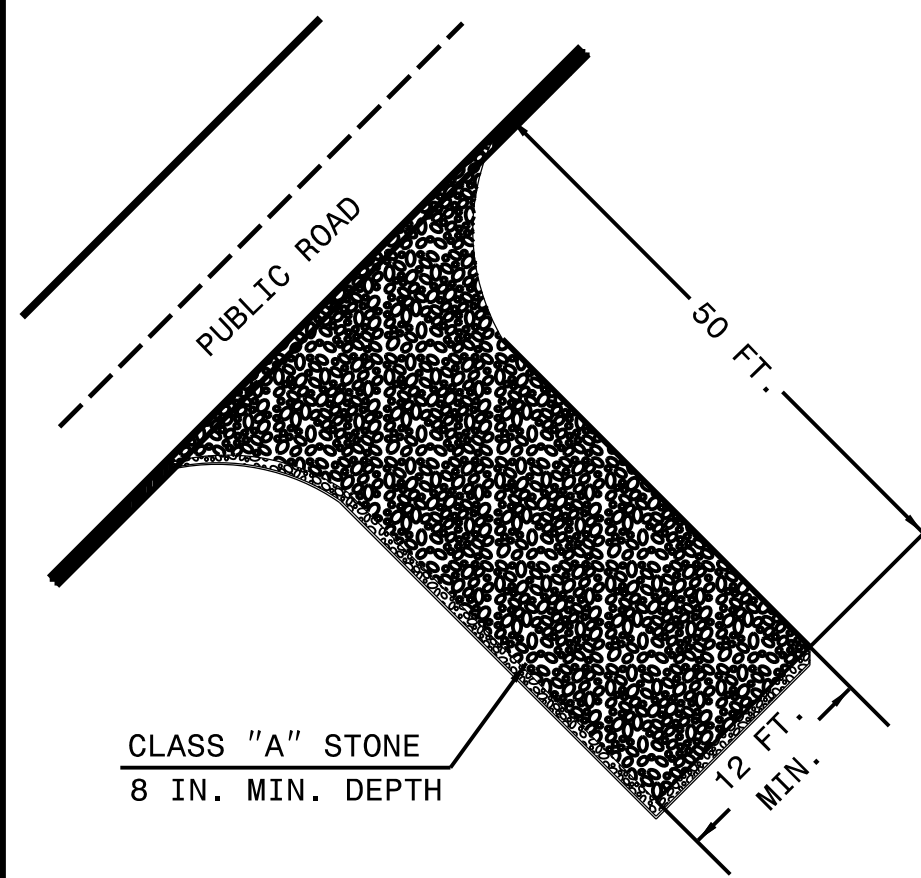
PHASE 'A' SILT FENCE TO BE RELOCATED WITH SECURITY FENCE UPON COMPLETION OF ALL PHASE 'A' WORK AREA. FOR PHASE 'A' WORK AREA, SEE CIVIL SITE PLAN - PHASE 'A', REFERENCE PLATE NUMBER C-103.

SEE CIVIL SITE PLAN FOR WHOLE WORK AREA FOR THE ADMINISTRATIVE ANNEX BUILDING, REFERENCE PLATE NUMBER C-101.

FOR EROSION CONTROL DETAILS AND LAWN AND GRASSES SEE PLATE NUMBER C-107.



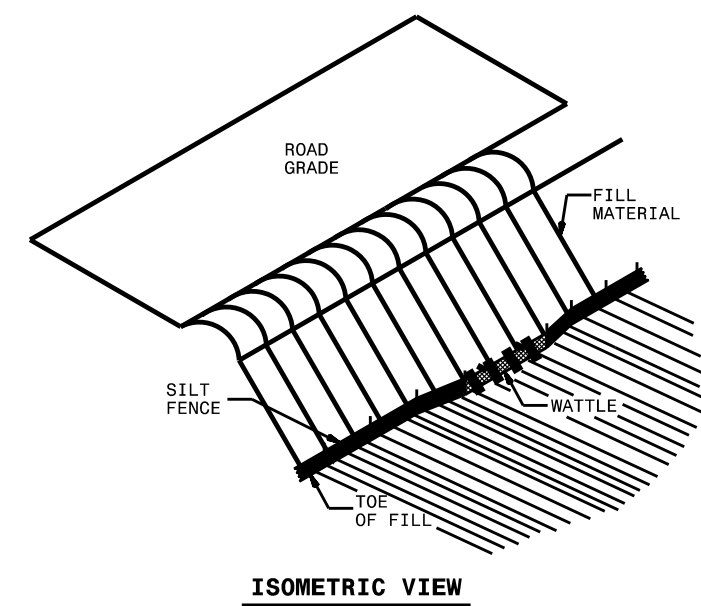
GRAVEL CONSTRUCTION ENTRANCE



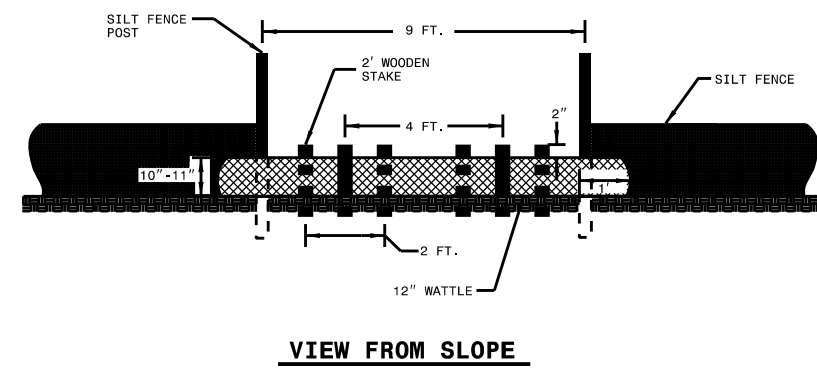
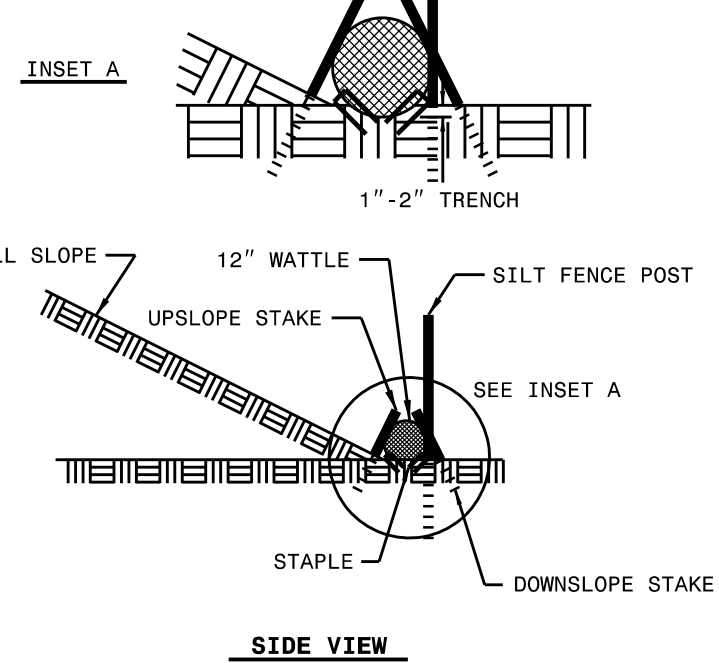
- NOTES:**
1. PROVIDE TURNING RADIUS SUFFICIENT TO ACCOMMODATE LARGE TRUCKS.
 2. LOCATE ENTRANCE(S) TO PROVIDE FOR UTILIZATION BY ALL CONSTRUCTION VEHICLES.
 3. MUST BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR DIRECT FLOW OF MUD ONTO STREETS. PERIODIC TOPDRESSING WITH STONE WILL BE NECESSARY.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

NOTE: PLACE FILTER FABRIC BENEATH STONE

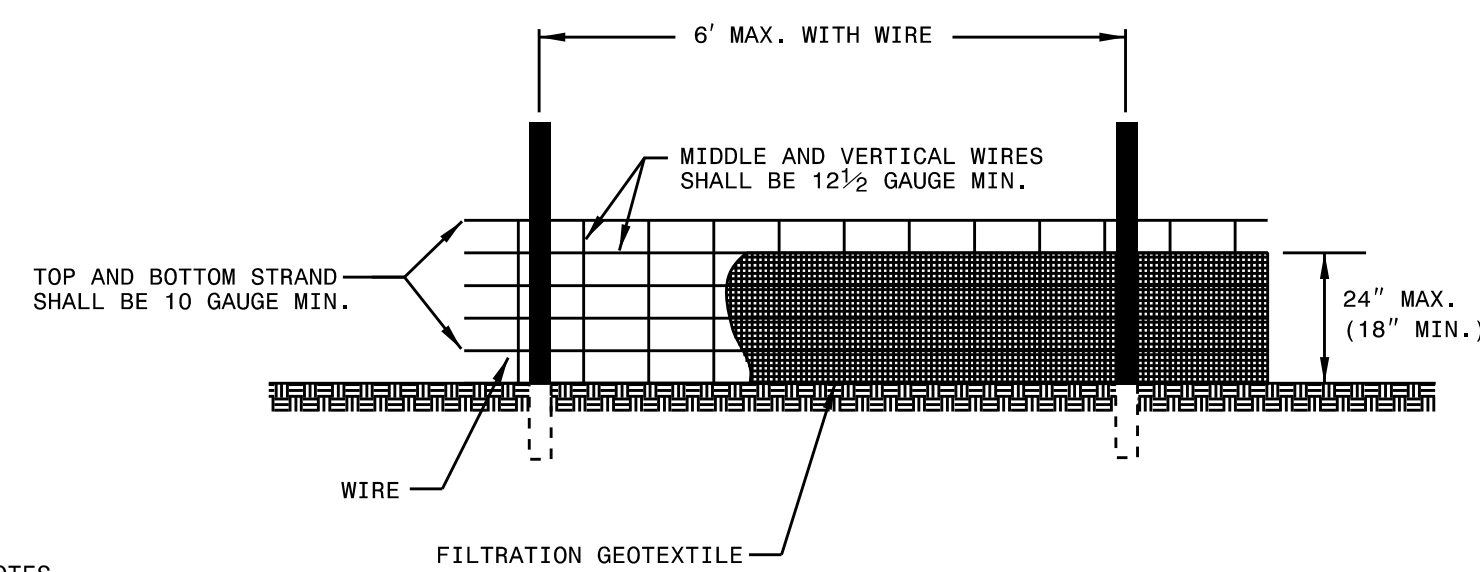
SILT FENCE WATTLE BREAK DETAIL



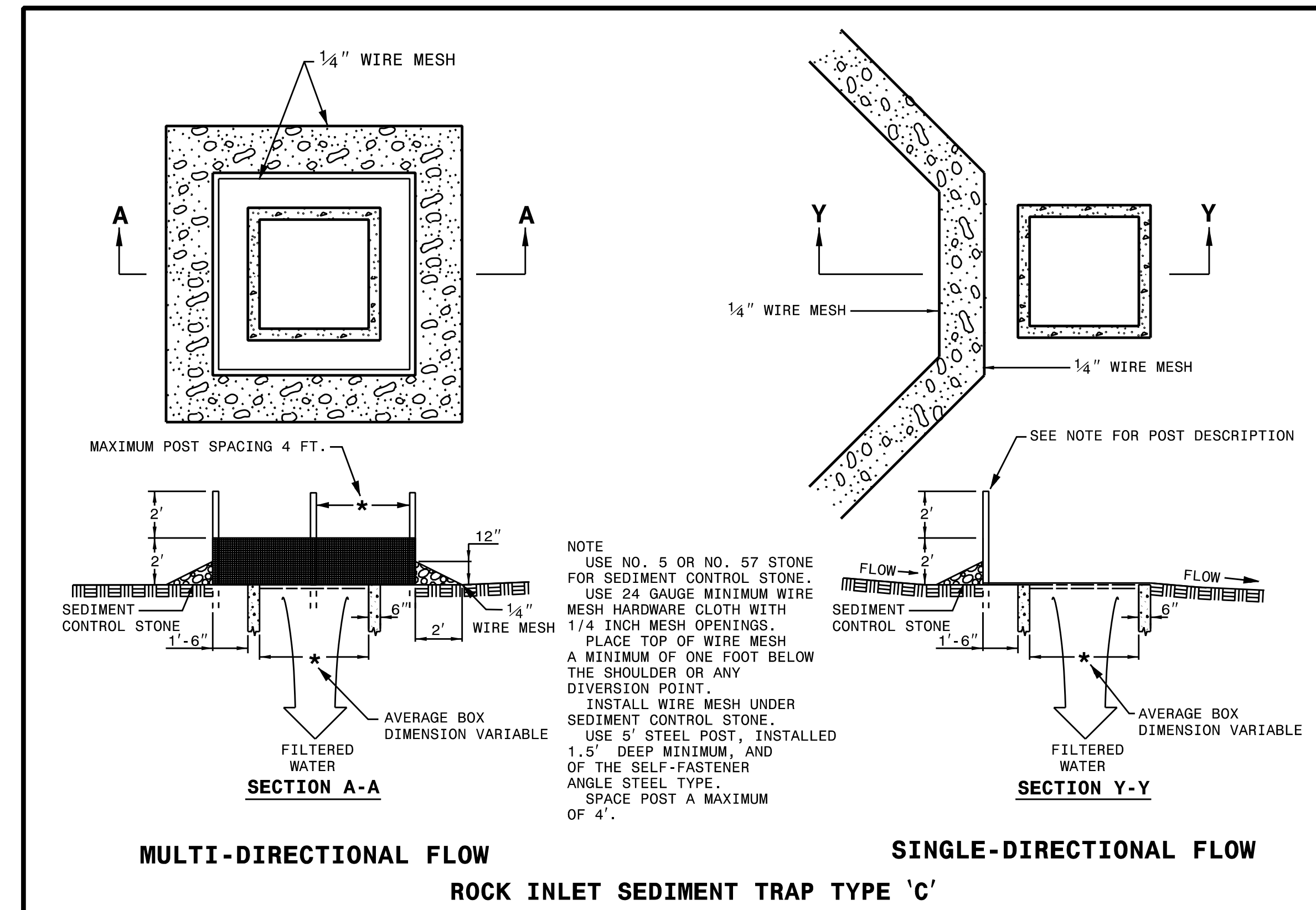
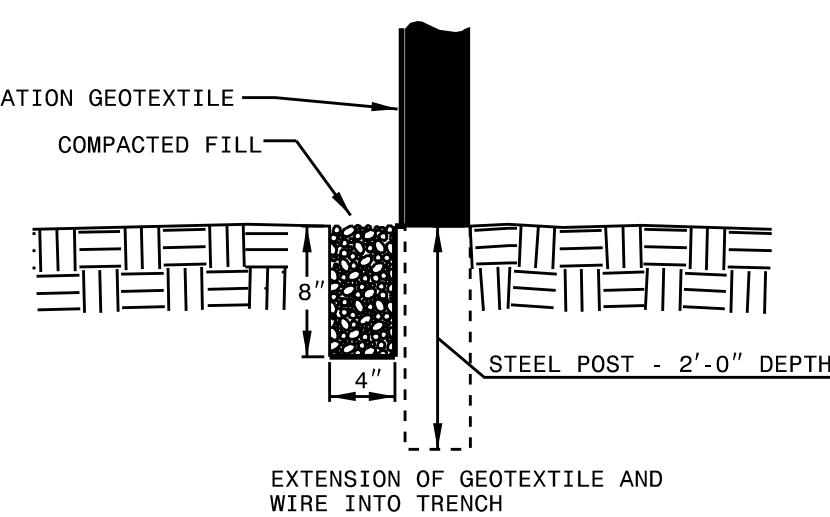
- NOTES:**
- USE MINIMUM 12 IN. DIAMETER EXCELSSIOR WATTLE AND LENGTH OF 10 FT. EXCAVATE A 1 TO 2 INCH TRENCH FOR WATTLE TO BE PLACED. DO NOT PLACE WATTLE ON TOE OF SLOPE.
 - USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION. INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO GROUND.
 - PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.
 - INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.
 - WATTLE INSTALLATION CAN BE ON OUTSIDE OF THE SILT FENCE AS DIRECTED. INSTALL TEMPORARY SILT FENCE IN ACCORDANCE WITH SECTION 1605 OF THE STANDARD SPECIFICATIONS.



REINFORCED TEMPORARY SILT FENCE DETAIL



- NOTES**
- USE FILTRATION GEOTEXTILE A MINIMUM OF 36" IN WIDTH AND FASTEN ADEQUATELY TO THE POSTS AND WIRE AS DIRECTED.
 - USE WIRE A MINIMUM OF 32" IN WIDTH AND WITH A MINIMUM OF 6 LINE WIRES WITH 12" STAY SPACING.
 - PROVIDE 5'-0" STEEL POST OF THE SELF-FASTENER ANGLE STEEL TYPE.
 - FOR MECHANICAL SLICING METHOD INSTALLATION, GEOTEXTILE SHALL BE A MAXIMUM OF 18" ABOVE GROUND SURFACE.



MULTI-DIRECTIONAL FLOW

ROCK INLET SEDIMENT TRAP TYPE 'C'

SINGLE-DIRECTIONAL FLOW

MAINTENANCE PLAN

ALL EROSION CONTROL PRACTICES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF PRODUCING RAINFALL, BUT IN NO CASE LESS THAN ONCE EVERY WEEK. ANY NEEDED REPAIRS WILL BE MADE IMMEDIATELY TO MAINTAIN ALL PRACTICES AS DESIGNED.

THE CONSTRUCTION ENTRANCE WILL BE PERIODICALLY TOP DRESSED WITH AN ADDITIONAL 2 INCHES OF #4 STONE TO MAINTAIN PROPER DEPTH. ANY SEDIMENT THAT IS TRACKED INTO THE STREET WILL BE IMMEDIATELY REMOVED.

SEDIMENT WILL BE REMOVED BEHIND THE SILT FENCE WHEN IT BECOMES 0.5 FEET DEEP AT THE FENCE. THE SILT FENCE WILL BE REPAIRED AS NECESSARY TO MAINTAIN A BARRIER.

INSPECT WIRE MESH AND SEDIMENT CONTROL STONE AT ALL ROCK INLET SEDIMENT TRAPS AT LEAST ONCE A WEEK AND AFTER EACH SIGNIFICANT (0.5 INCHES OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY. REMOVE SEDIMENT AND RESTORE THE SEDIMENT STORAGE AREA TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO ONE-HALF THE DESIGN DEPTH ON THE TRAP.

SOIL STABILIZATION TIMEFRAMES

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

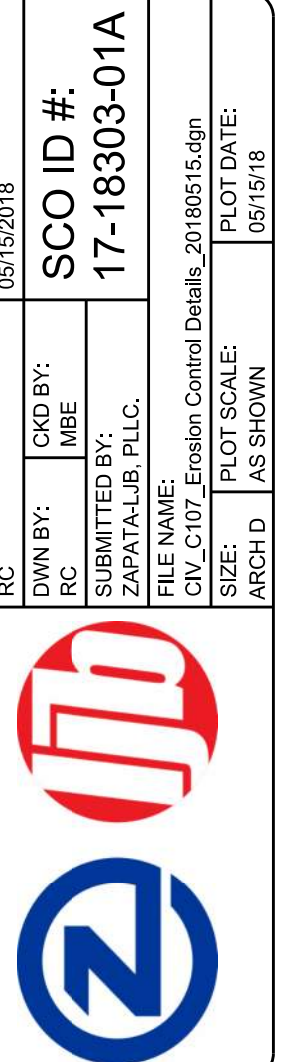
LAWN AND GRASSES

FOR INFORMATION ON ESTABLISHING LAWNS IN GRASS AREAS REFER TO THE UNIVERSITY OF NORTH CAROLINA AT WILMINGTON DESIGN GUIDELINES SECTION 32 90 00 "UNCW LANDSPACING STANDARDS", PART 6: DESIGN GUIDE - LAWNS AND GRASSES (HTTPS://WWW.UNCW.EDU/ARCHITECTURALANDCONSTRUCTIONDOCUMENTS/DESIGN%20GUIDELINES%20ISSUE%20SEPTEMBER%202017.PDF#DESIGN GUIDELINES).

THE CONTRACTOR SHALL COORDINATE WITH UNCW AS TO THE PREFERRED METHOD OF INSTALLATION (SODDING, SPRIGGING, HYDROSEEDING OR SEEDING) AND GRASS TYPE (BERMUDA TYPE 419 "TIFFWAY" OR CENTPEDE) USED TO ESTABLISHING LAWNS IN GRASS AREAS.



DESIGNED BY:	RC
DATE:	05/15/2018
CHKD BY:	RC
DATE:	05/15/2018
ISSUED BY:	RC
DATE:	05/15/2018
FILE NAME:	C:\107_Erosion Control Details_20180515.dgn
SIZE:	17-18303-01A
ARCH D:	AS SHOWN
PLAT SCALE:	AS SHOWN
PLAT DATE:	05/15/18
SYMBOL:	REPLACED BORDER
SYMBOL:	ISSUED FOR CONSTRUCTION



ADMINISTRATIVE ANNEK BUILDING
UNIVERSITY OF NORTH CAROLINA - WILMINGTON
622 MACMILLAN AVENUE, WILMINGTON, NC

EROSION CONTROL DETAILS

PLATE REFERENCE NUMBER
C-107
SHEET

STORM SEWER STRUCTURES SUMMARY						
ID	COORDINATES	PIPE TYPE	PIPE LENGTH	PIPE SLOPE	TOP ELEV.	INVERT OUT
GB1	N 173360.35 E 2338075.34	15" RCP	13'	0.5 %	38.00	32.90
GB2	N 173422.62 E 2338129.79	15" RCP	35'	0.5 %	38.00	32.83
GB3	N 173397.44 E 2338099.02	15" RCP	40'	0.5 %	37.75	32.65
MH	N 173364.13 E 2338087.60	48" RCP (EX.)	EXIST.	EXIST.	39.91	32.45

NOTE: PIPE LENGTH GIVEN FROM CENTER TO CENTER OF STRUCTURE.

GENERAL NOTES:

ALL WATER AND SANITARY SEWER CONSTRUCTION WILL BE IN ACCORDANCE WITH THE LATEST EDITION OF CFPWA STANDARD SPECIFICATIONS WHICH ARE AVAILABLE AT [HTTP://CFPWA.ORG/225/CONSTRUCTION-SPECIFICATIONS](http://CFPWA.ORG/225/CONSTRUCTION-SPECIFICATIONS).

ALL STORM SEWER CONSTRUCTION WILL BE IN ACCORDANCE WITH THE LATEST EDITION OF CITY OF WILMINGTON'S TECHNICAL STANDARDS AND SPECIFICATIONS WHICH ARE AVAILABLE AT [HTTPS://WWW.WILMINGTONNC.GOV/DEPARTMENTS/ENGINEERING/TECHNICAL-STANDARDS-DETAILS](https://www.wilmingtonnc.gov/departments/engineering/technical-standards-details).

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING RECORD DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING NC ONE CALL AND OBTAINING A UNCW DIG PERMIT ([HTTPS://WWW.WILMINGTONNC.GOV/DEPARTMENTS/ENGINEERING/TECHNICAL-STANDARDS-DETAILS](https://uncw.edu/physicalplant/documents/dig%20form%203-14-17.pdf)) PRIOR TO ANY GROUND DISTURBING ACTIVITIES.

THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION.

THE CONTRACTOR WILL ADHERE TO ALL APPLICABLE WORKER SAFETY REQUIREMENTS, AND CONSTRUCTION SITE SAFETY REQUIREMENTS AT ALL TIMES. THE CONTRACTOR SHALL SUBMIT A DETAILED PLAN SHOWING DESIGN OF SHORING, BRACING, SLOPING, OR OTHER PROVISIONS TO BE MADE FOR WORKER PROTECTION FOR ALL AREAS TO BE EXCAVATED TO A DEPTH OF FIVE OR MORE FEET BEFORE BEGINNING WORK. IF THE PLAN VARIES FROM THE SHORING STANDARDS, THE PLANS SHALL BE PREPARED AND STAMPED BY A REGISTERED ENGINEER.

CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND PAYING REQUISITE PERMIT FEES WITH THE CITY OF WILMINGTON INCLUDING BUT NOT LIMITED TO ROW PERMITS AND ROAD CLOSURES.

CONTRACTOR CALL THE NORTH CAROLINA ONE-CALL CENTER AT 1 (800) 632-4949 AND ALLOW THE CENTER TO LOCATE EXISTING UTILITIES BEFORE DIGGING.

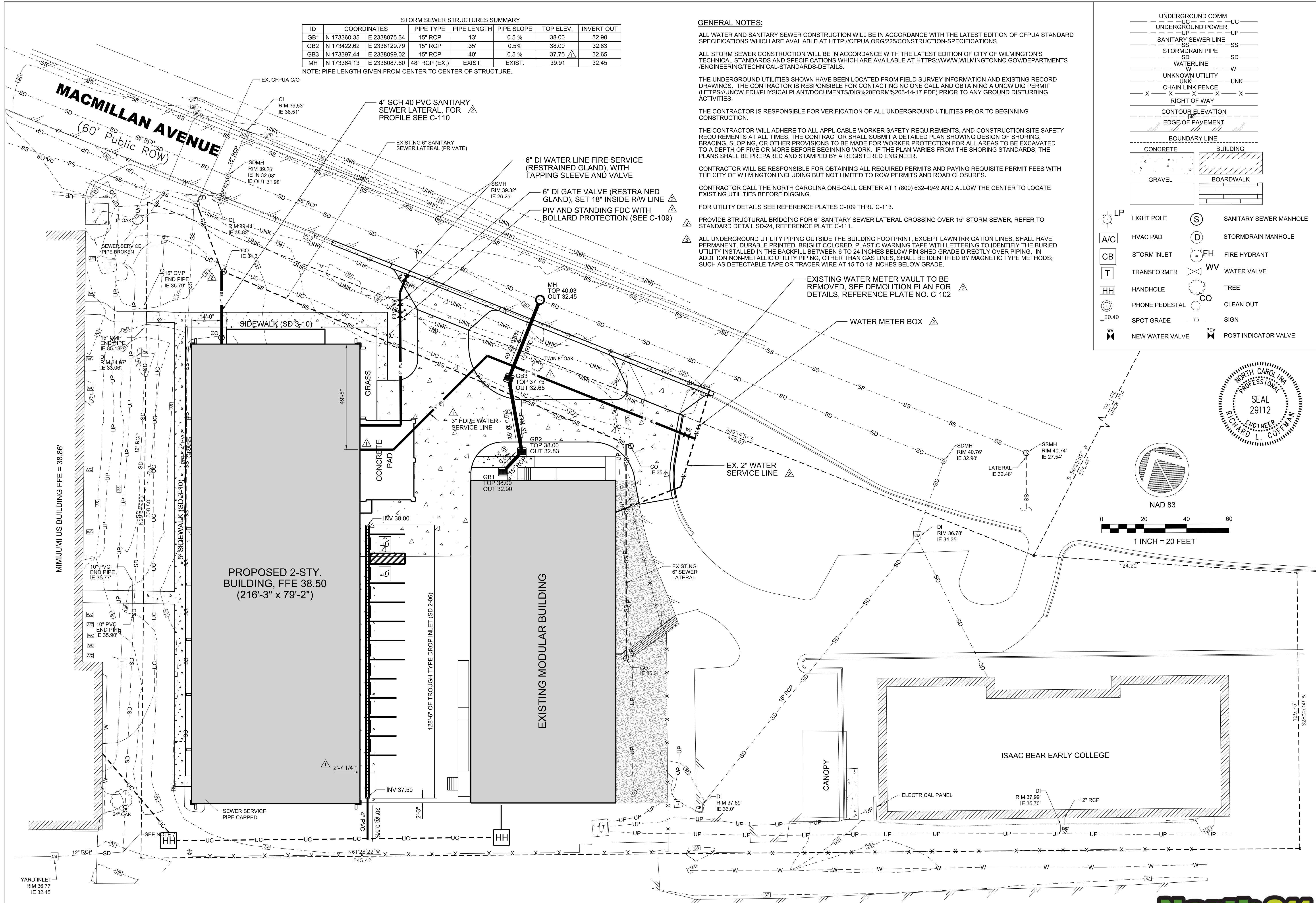
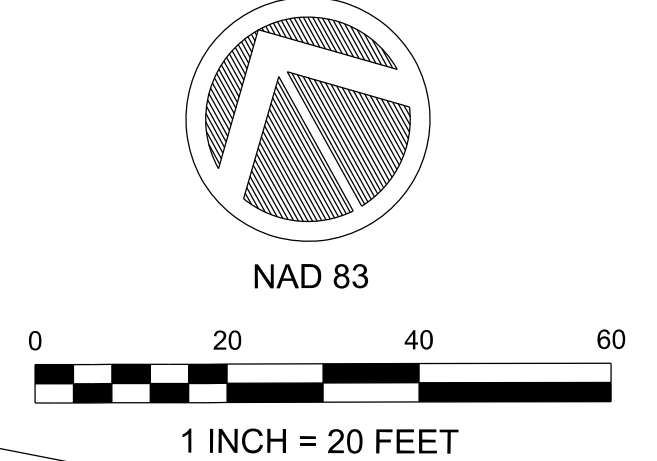
FOR UTILITY DETAILS SEE REFERENCE PLATES C-109 THRU C-113.

PROVIDE STRUCTURAL BRIDGING FOR 6" SANITARY SEWER LATERAL CROSSING OVER 15" STORM SEWER, REFER TO STANDARD DETAIL SD-24, REFERENCE PLATE C-111.

ALL UNDERGROUND UTILITY PIPING OUTSIDE THE BUILDING FOOTPRINT, EXCEPT LAWN IRRIGATION LINES, SHALL HAVE PERMANENT, DURABLE PRINTED, BRIGHT COLORED, PLASTIC WARNING TAPE WITH LETTERING TO IDENTIFY THE BURIED UTILITY INSTALLED IN THE BACKFILL BETWEEN 6 TO 24 INCHES BELOW FINISHED GRADE DIRECTLY OVER PIPING. IN ADDITION NON-METALLIC UTILITY PIPING, OTHER THAN GAS LINES, SHALL BE IDENTIFIED BY MAGNETIC TYPE METHODS; SUCH AS DETECTABLE TAPE OR TRACER WIRE AT 15 TO 18 INCHES BELOW GRADE.

LEGEND:

- UNDERGROUND COMM - UC
- UNDERGROUND POWER - UP
- SANITARY SEWER LINE - SS
- STORM DRAIN PIPE - SD
- WATERLINE - W
- UNKNOWN UTILITY - UNK
- CHAIN LINK FENCE - X
- RIGHT OF WAY - RW
- CONTOUR ELEVATION - 1.40
- EDGE OF PAVEMENT - 1.40
- BOUNDARY LINE - 1.40
- CONCRETE - [Symbol]
- BUILDING - [Symbol]
- GRAVEL - [Symbol]
- BOARDWALK - [Symbol]
- LP - LIGHT POLE
- A/C - HVAC PAD
- CB - STORM INLET
- T - TRANSFORMER
- HH - HANDHOLE
- PH - PHONE PEDESTAL
- SG - SPOT GRADE
- NV - NEW WATER VALVE
- UC - SANITARY SEWER MANHOLE
- SD - STORM DRAIN MANHOLE
- FH - FIRE HYDRANT
- WV - WATER VALVE
- CO - TREE
- CO - CLEAN OUT
- SG - SIGN
- PTV - POST INDICATOR VALVE



UNCW

DESIGNED BY:	DATE:	05/15/2018
DRAWN BY:	CHKD BY:	DATE:
ISSUED BY:	DATE:	05/15/2018
FILE NAME:	PROJECT:	17-18303-01A
CITY:	SCALE:	AS SHOWN
ARCH D:	AS SHOWN:	05/15/18

RELOCATED WATER LINE AND ADDED PIV AND FDC WITH BOLLARD PROTECTION

REVISED GENERAL NOTES FOR UTILITY PIPING WARNING TAPE

REVISED GENERAL NOTES AND REMOVED MANHOLE

RELOCATED 3" WATER LINE, CHANGE SANITARY SEWER SEE: CHANGED GRT TOP ELEVATION, AND MOVED TROUGH INLET

SYMBOL

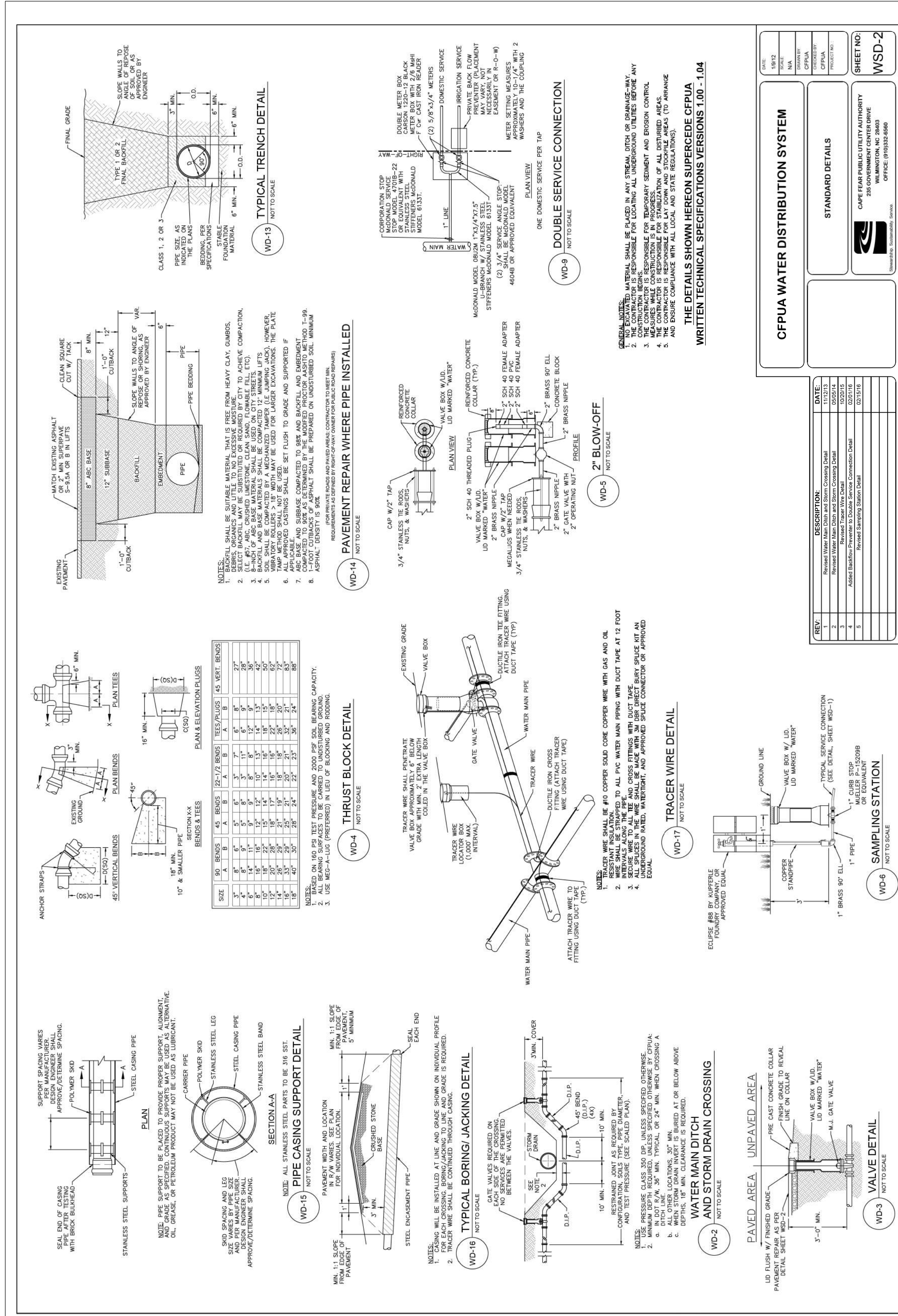
11/17/17

ADMINISTRATIVE ANEX BUILDING
UNIVERSITY OF NORTH CAROLINA - WILMINGTON
622 MACMILLAN AVENUE, WILMINGTON, NC

SITE UTILITIES PLAN

PLATE REFERENCE NUMBER
C-108
SHEET





CFPUA WATER DISTRIBUTION SYSTEM

STANDARD DETAILS

CAMP FIRM PUBLIC UTILITY AUTHORITY
355 GOVERNMENT CENTER DRIVE
OFFICE (919) 325-5899

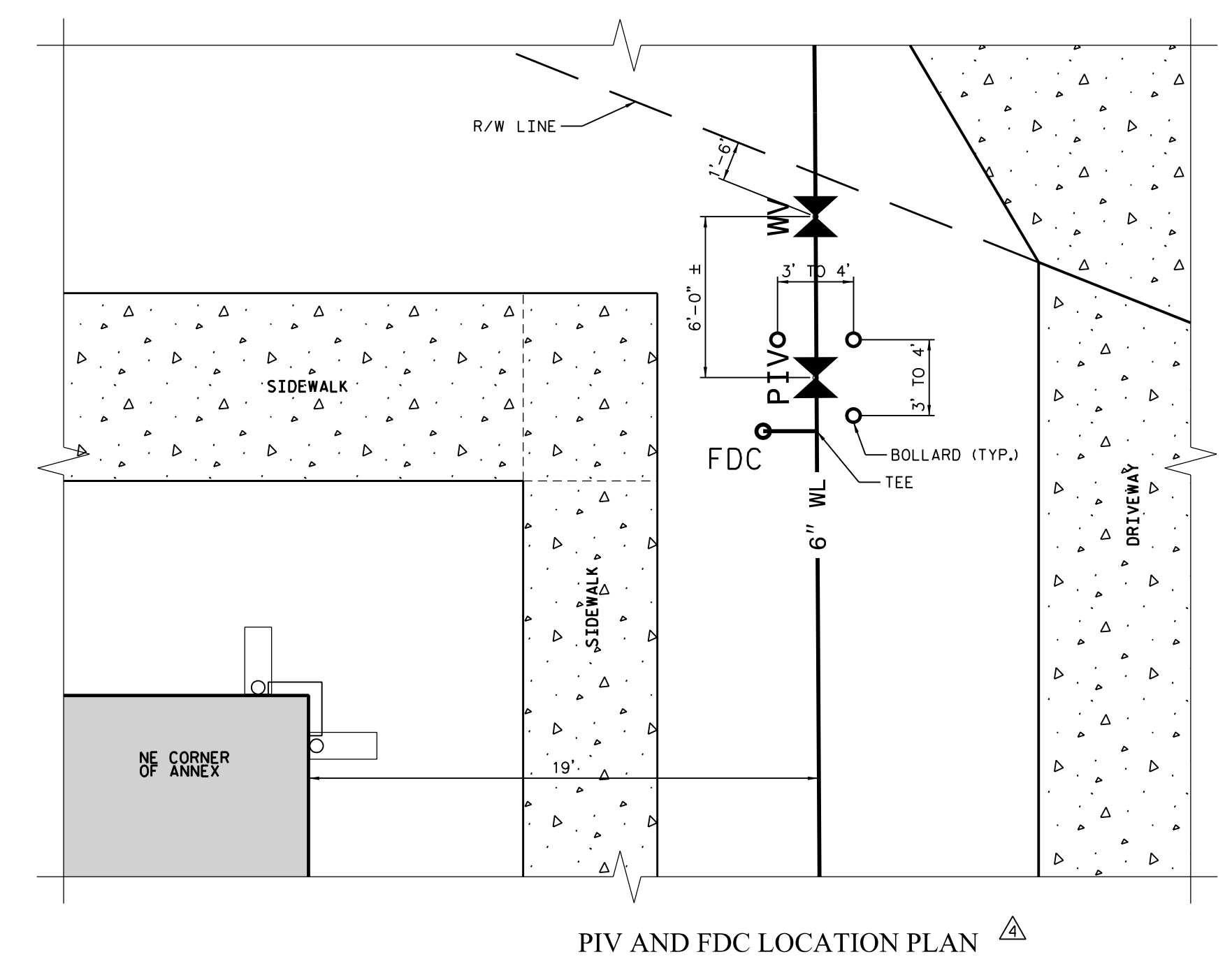
SHEET NO. **WSD-2**

REV	DESCRIPTION	DATE
1	ISSUED FOR CONSTRUCTION	05/15/2018
2	REMOVED STANDARD DETAIL SHEET WSD-1 AND ADDED POST INDICATOR VALVE (PIV) DETAIL	05/15/18
3	ADDED NOTE REGARDING SEAL	05/15/18
4	ADDED PIV AND FDC LOCATION PLAN AND YARD FDC DETAIL	05/24/18
5	ISSUED FOR CONSTRUCTION	11/17/17

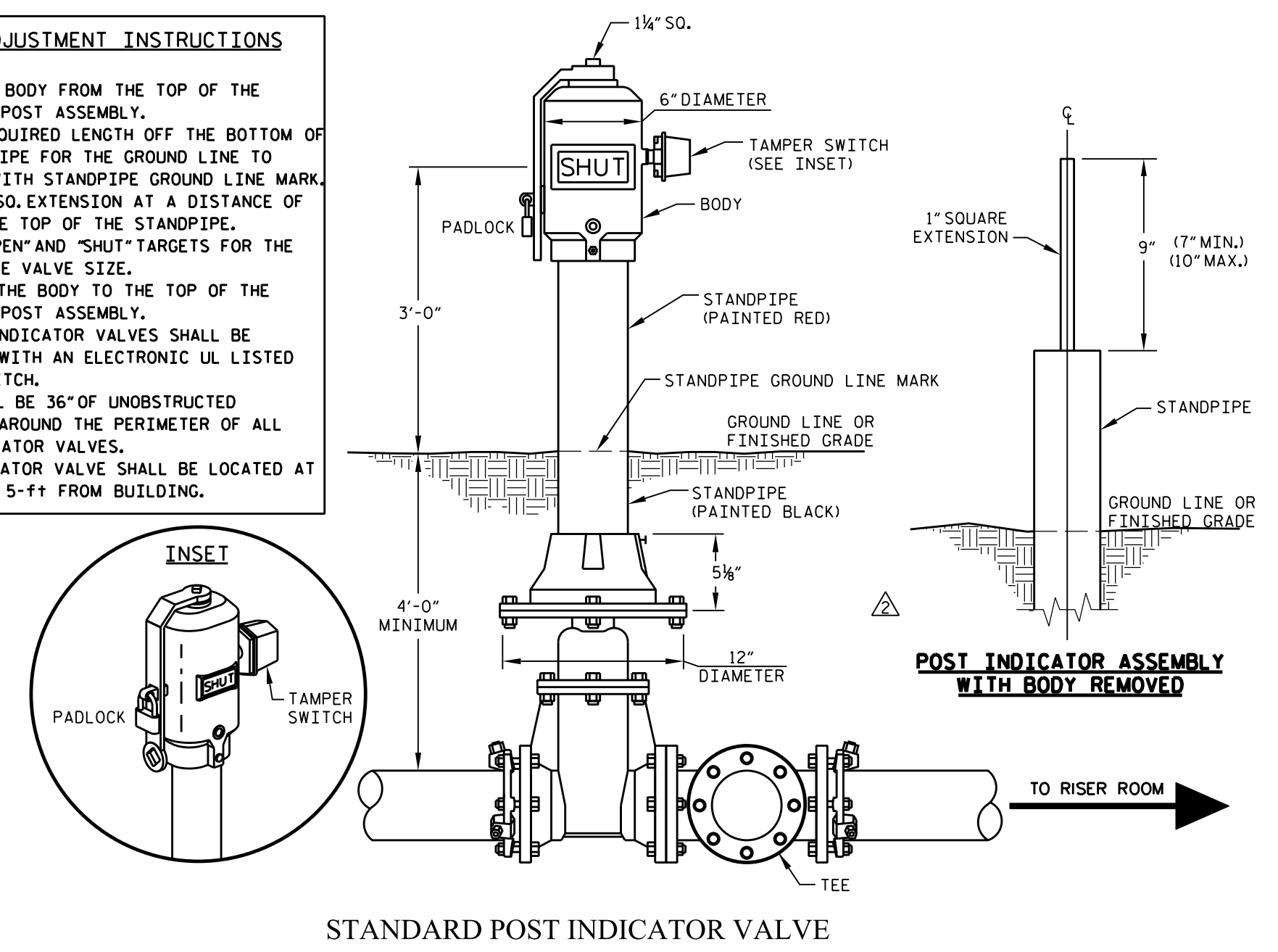
GENERAL NOTES:

- ALL MATERIALS SHALL BE PLACED IN PLACE WITHIN THE SPECIFIED TIME FRAME.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY SCOURING AND EROSION CONTROL.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL DISTURBED AREAS.
- AND OBTAIN COMPLIANCE WITH ALL LOCAL AND STATE REGULATIONS.

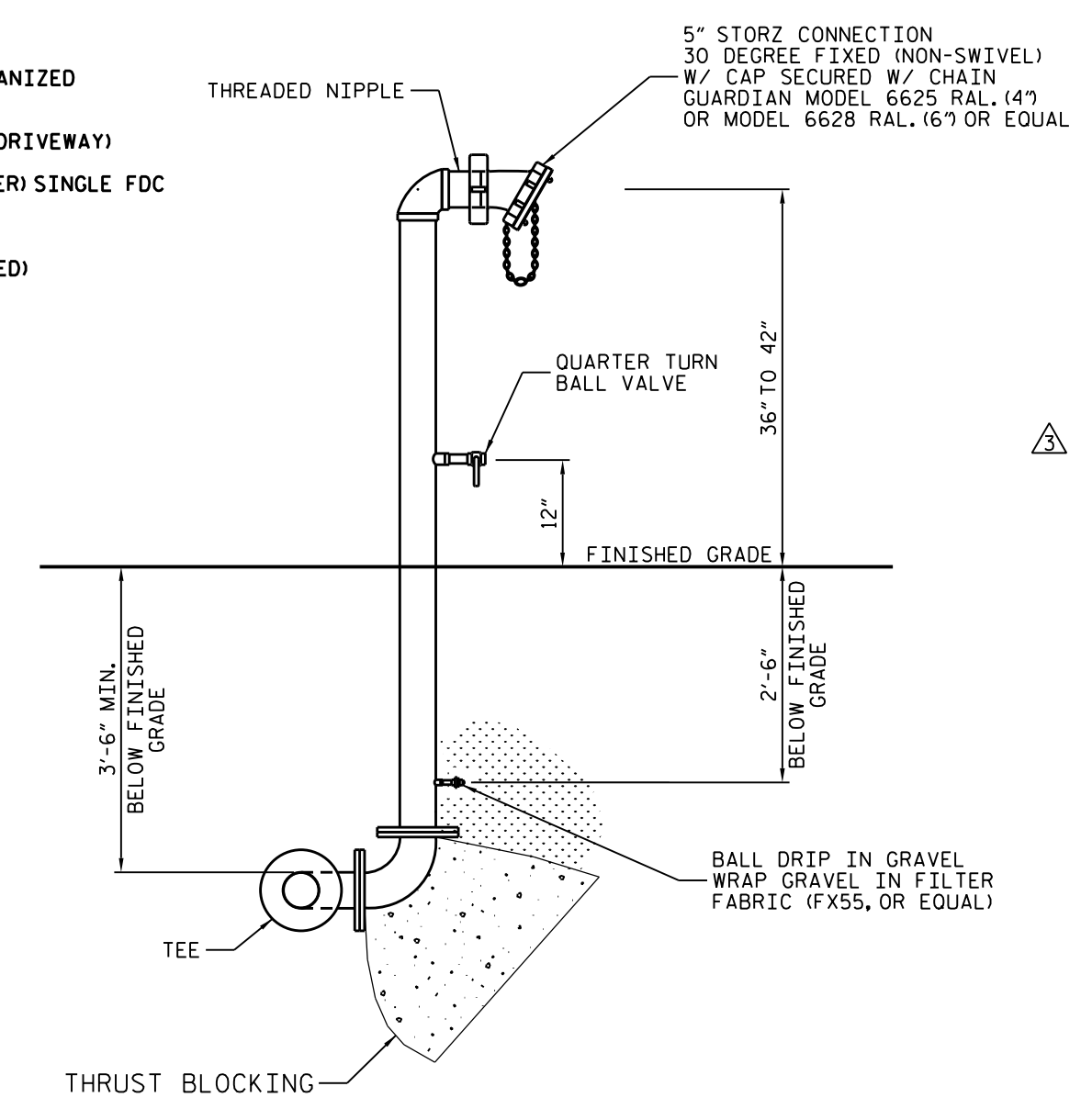
THE DETAILS SHOWN HEREON SUPERSEDE CFPUA WRITTEN TECHNICAL SPECIFICATIONS VERSIONS 1.00 - 1.04



- FIELD ADJUSTMENT INSTRUCTIONS**
- REMOVE THE BODY FROM THE TOP OF THE INDICATOR POST ASSEMBLY.
 - CUT THE REQUIRED LENGTH OFF THE BOTTOM OF THE STANDPIPE FOR THE GROUND LINE TO MATCH UP WITH STANDPIPE GROUND LINE MARK.
 - CUT THE 1" SO. EXTENSION AT A DISTANCE OF 9" ABOVE THE TOP OF THE STANDPIPE.
 - SET THE "OPEN" AND "SHUT" TARGETS FOR THE APPROPRIATE VALVE SIZE.
 - RE-ATTACH THE BODY TO THE TOP OF THE INDICATOR POST ASSEMBLY.
 - ALL POST INDICATOR VALVES SHALL BE INSTALLED WITH AN ELECTRONIC UL LISTED TAMPER SWITCH.
 - THERE SHALL BE 36" OF UNOBSTRUCTED CLEARANCE AROUND THE PERIMETER OF ALL POST INDICATOR VALVES.
 - POST INDICATOR VALVE SHALL BE LOCATED AT A MINIMUM 5'-ft FROM BUILDING.



- NOTES:**
- ALL EXPOSED PIPING AND FITTINGS TO BE GALVANIZED WITH EXCEPTION OF STORZ CONNECTION
 - 40' MAX. FROM FDC TO FIRE APPARATUS ACCESS (DRIVEWAY)
 - FOR NFPA 13R SYSTEMS (2 1/2" RISER AND SMALLER) SINGLE FDC
 - FOR HIGH RISE BUILDINGS USE SIAMSESE
 - AN APPROVED CONNECTION (TAPPING NOT APPROVED)



NOTE: THE SEAL APPLIES TO THE PIV AND FDC LOCATION PLAN, THE STANDARD POST INDICATOR VALVE DETAIL, AND YARD FIRE DEPARTMENT CONNECTION DETAIL ONLY.



UNCW

UNIVERSITY OF NORTH CAROLINA - WILMINGTON
622 MACMILLAN AVENUE, WILMINGTON, NC

ADMINISTRATIVE ANNEX BUILDING

DATE: 05/15/2018

DESIGNED BY: RC

DRAWN BY: RC

CHECKED BY: RC

APPROVED BY: RC

FILE NAME: CIVIL-C109_UTILITY DETAILS_20180430.dgn

SIZE: AS SHOWN

PLOT SCALE: AS SHOWN

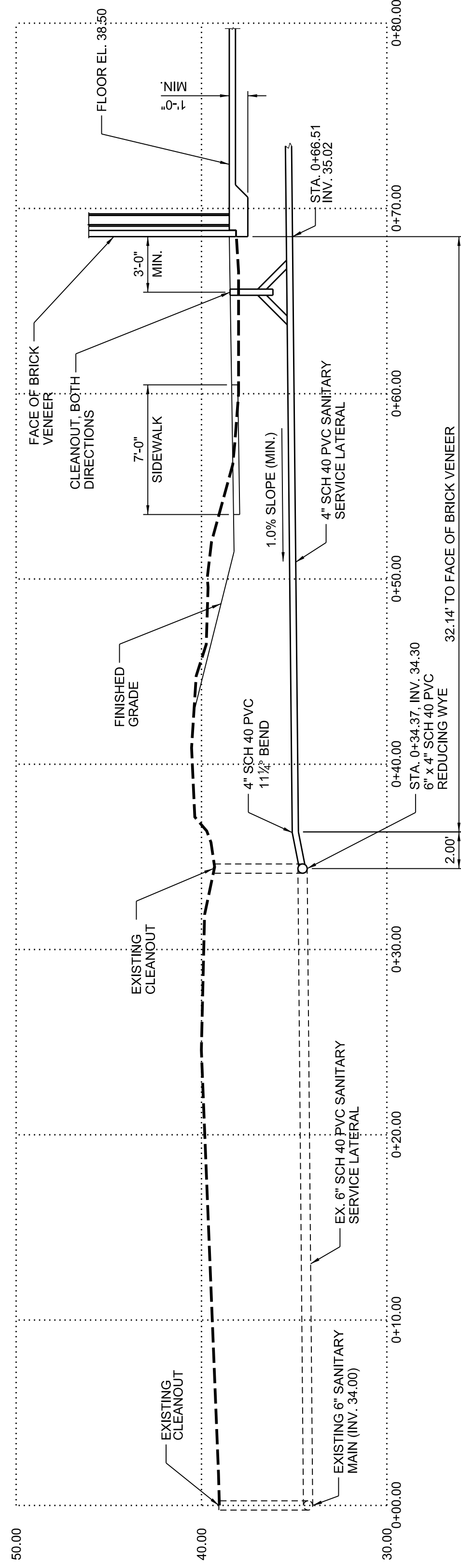
PLOT DATE: 05/15/18

SCD ID #: 17-18303-01A

UTILITY PLAN DETAILS (WATER)

PLATE REFERENCE NUMBER: C-109

SHEET

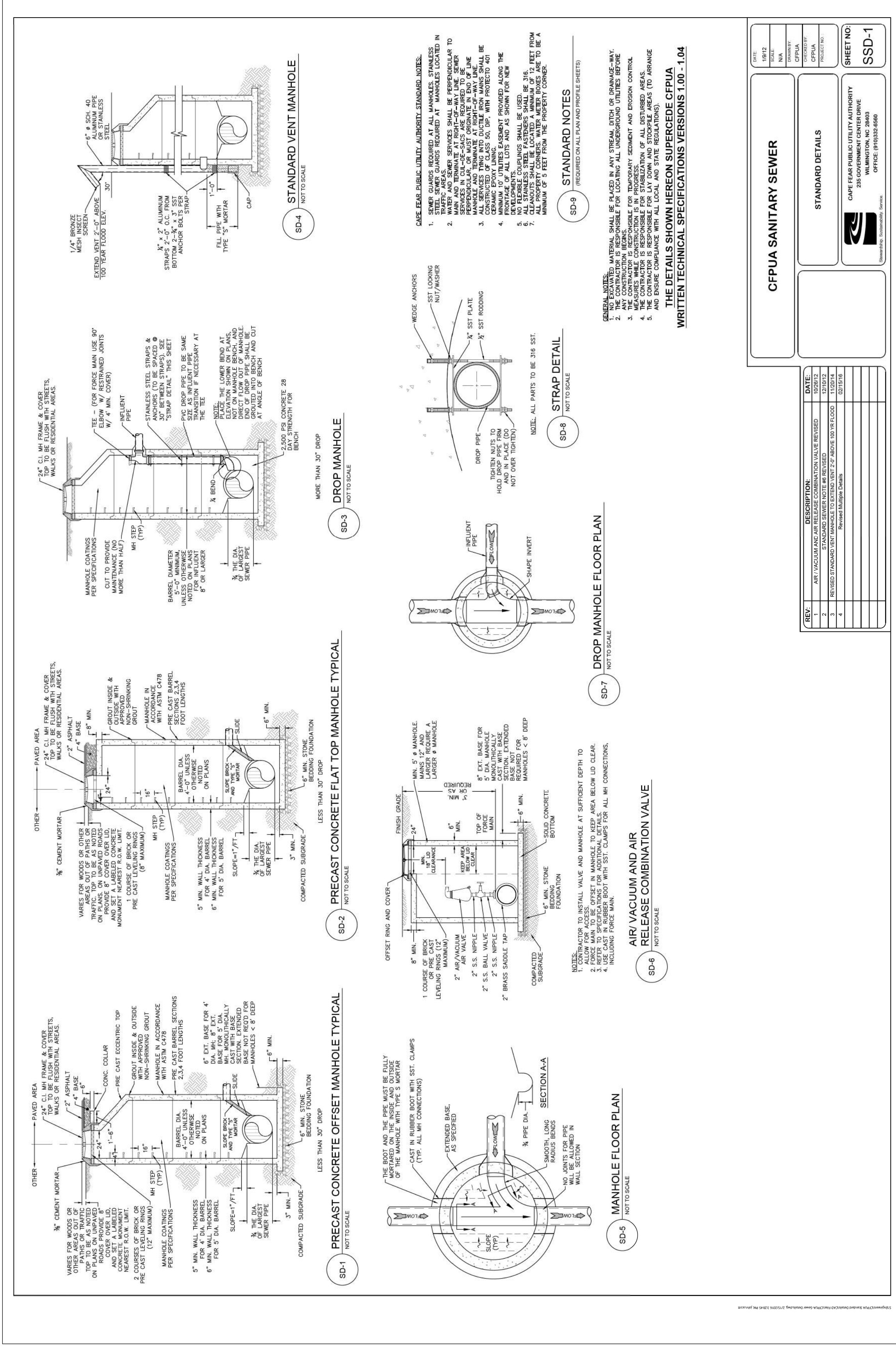


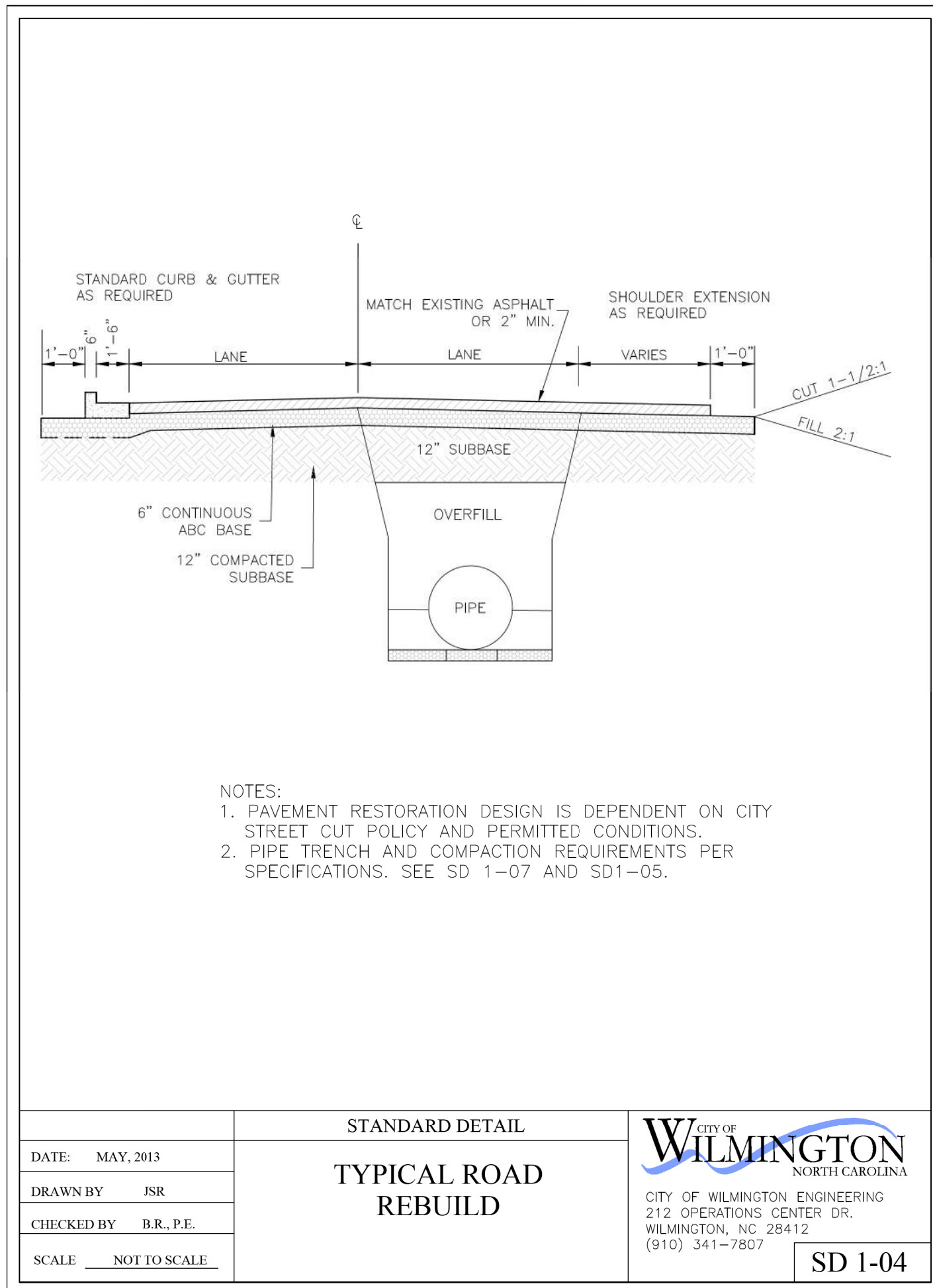
NOTE:
 THE SEAL PERTAINS TO THE PROFILE OF 4" SANITARY SERVICE LATERAL FOR ADMINISTRATION ANNEX BUILDING ONLY.



PROFILE OF 4" SANITARY SERVICE LATERAL FOR ADMINISTRATION ANNEX BUILDING

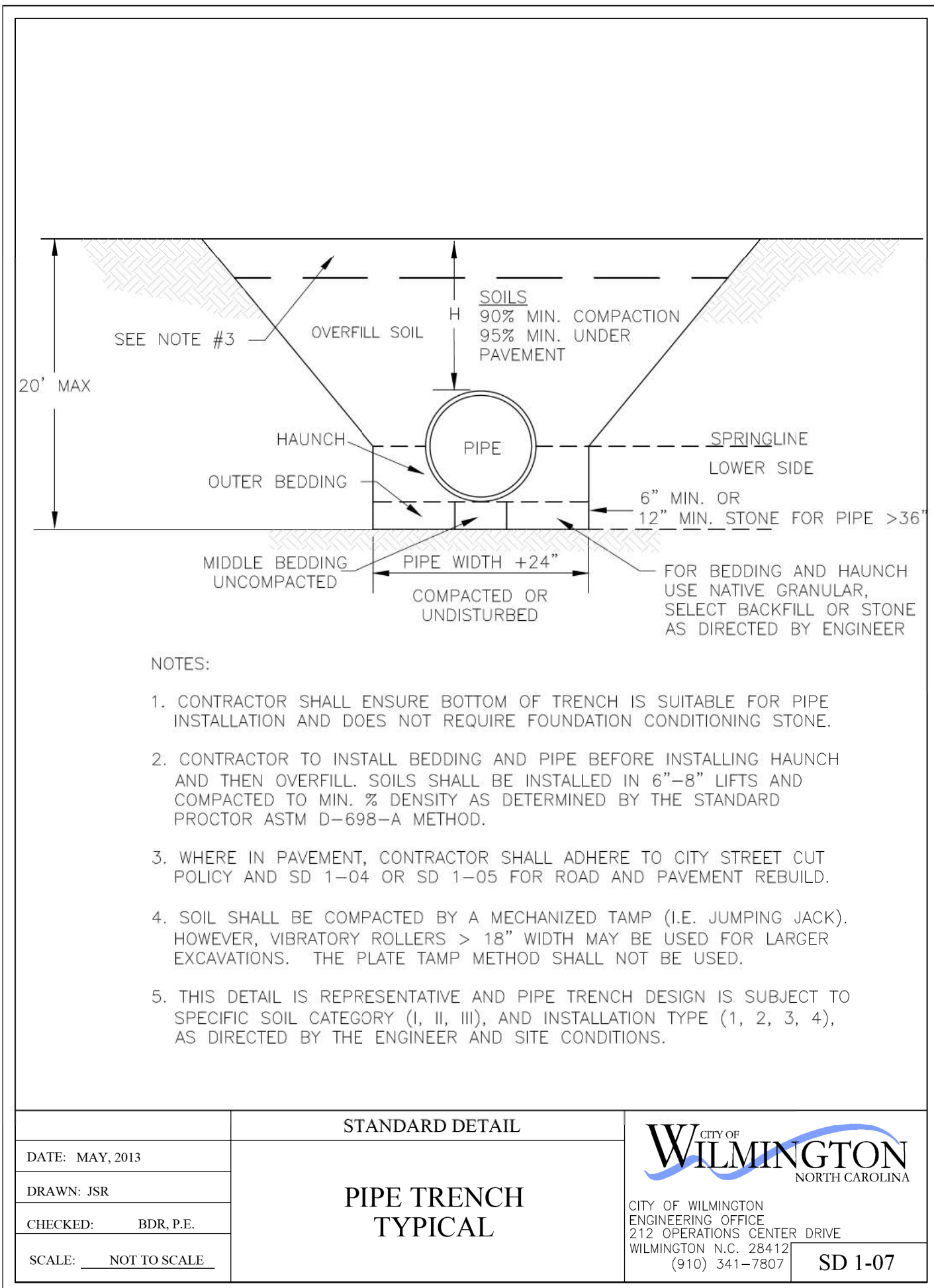
NOTE:
 FOR PLAN VIEW OF THE 4" SANITARY SERVICE LATERAL, SEE CIVIL PLATE REFERENCE NUMBER C-108.
 THE CONTRACTOR MAY CHOOSE TO USE A MANHOLE IN PLACE OF THE 4" SERVICE LATERAL WITH 6" SERVICE LATERAL.





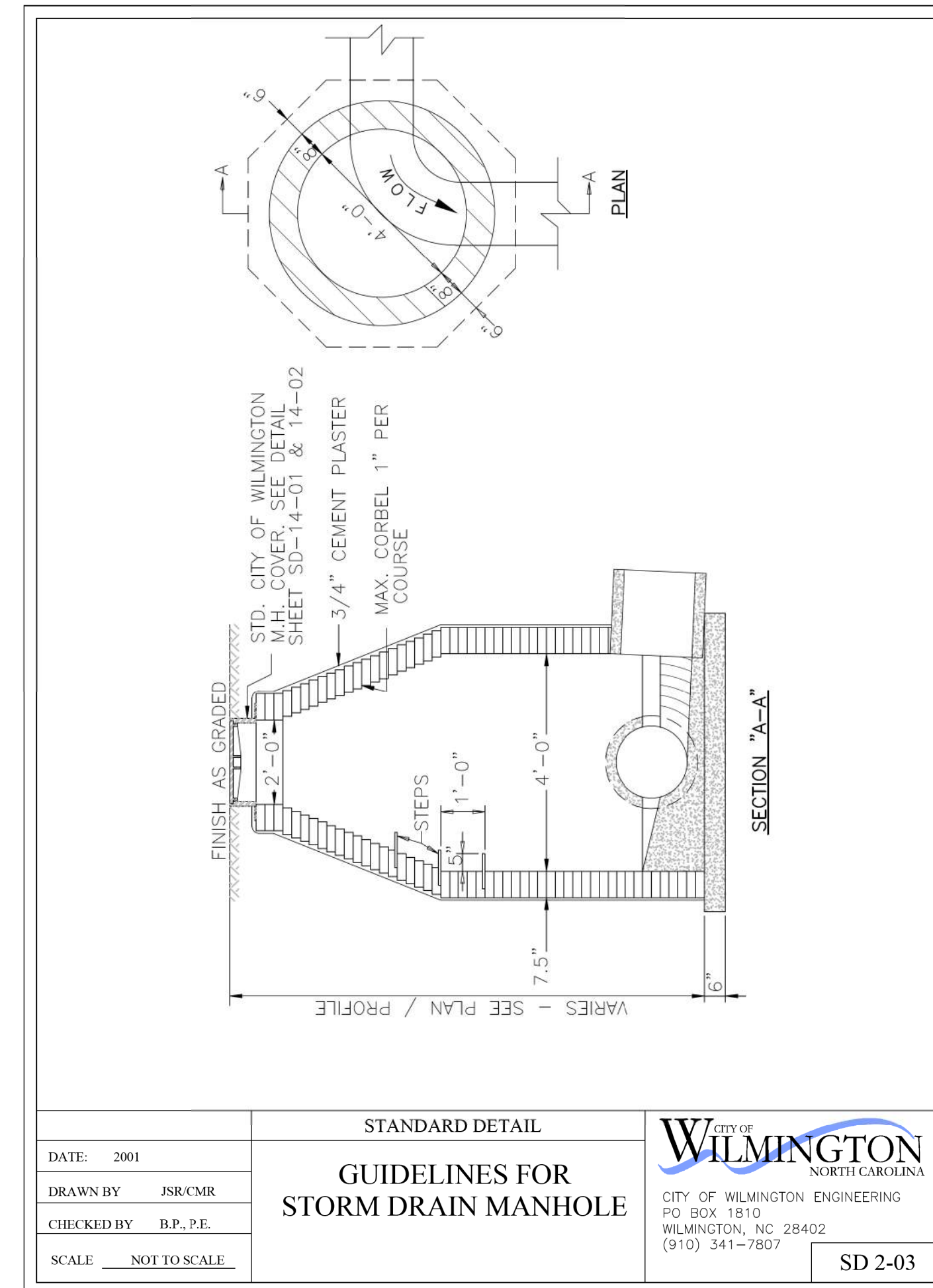
NOTES:
 1. PAVEMENT RESTORATION DESIGN IS DEPENDENT ON CITY STREET CUT POLICY AND PERMITTED CONDITIONS.
 2. PIPE TRENCH AND COMPACTION REQUIREMENTS PER SPECIFICATIONS. SEE SD 1-07 AND SD1-05.

DATE: MAY, 2013	STANDARD DETAIL	 CITY OF WILMINGTON ENGINEERING 212 OPERATIONS CENTER DR. WILMINGTON, NC 28412 (910) 341-7807	SD 1-04
DRAWN BY JSR	TYPICAL ROAD REBUILD		
CHECKED BY B.R., P.E.			
SCALE: NOT TO SCALE			

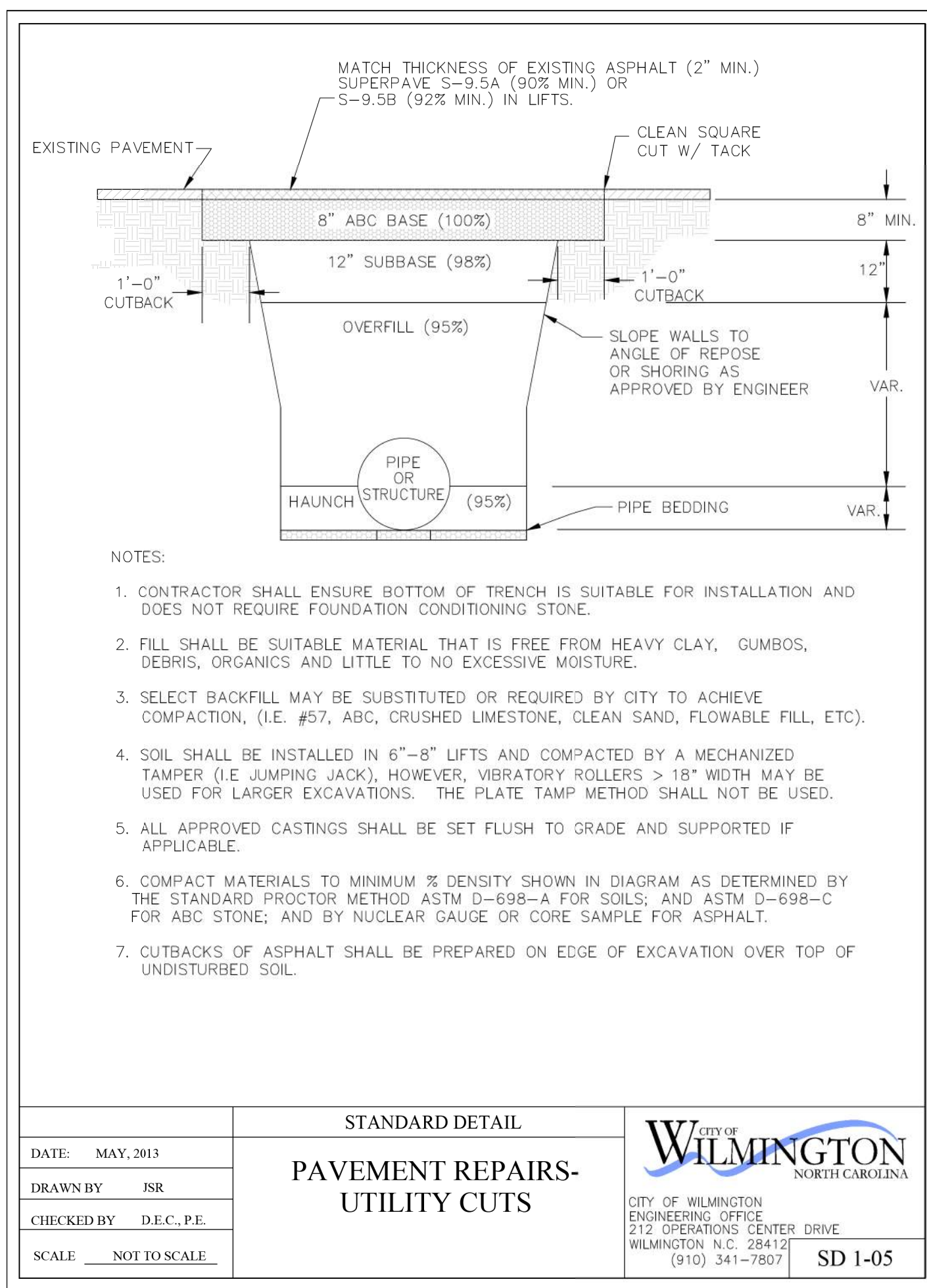


NOTES:
 1. CONTRACTOR SHALL ENSURE BOTTOM OF TRENCH IS SUITABLE FOR PIPE INSTALLATION AND DOES NOT REQUIRE FOUNDATION CONDITIONING STONE.
 2. CONTRACTOR TO INSTALL BEDDING AND PIPE BEFORE INSTALLING HAUNCH AND THEN OVERFILL. SOILS SHALL BE INSTALLED IN 6"-8" LIFTS AND COMPACTED TO MIN. % DENSITY AS DETERMINED BY THE STANDARD PROCTOR ASTM D-698-A METHOD.
 3. WHERE IN PAVEMENT, CONTRACTOR SHALL ADHERE TO CITY STREET CUT POLICY AND SD 1-04 OR SD 1-05 FOR ROAD AND PAVEMENT REBUILD.
 4. SOIL SHALL BE COMPACTED BY A MECHANIZED TAMP (I.E. JUMPING JACK). HOWEVER, VIBRATORY ROLLERS > 18" WIDTH MAY BE USED FOR LARGER EXCAVATIONS. THE PLATE TAMP METHOD SHALL NOT BE USED.
 5. THIS DETAIL IS REPRESENTATIVE AND PIPE TRENCH DESIGN IS SUBJECT TO SPECIFIC SOIL CATEGORY (I, II, III), AND INSTALLATION TYPE (1, 2, 3, 4), AS DIRECTED BY THE ENGINEER AND SITE CONDITIONS.

DATE: MAY, 2013	STANDARD DETAIL	 CITY OF WILMINGTON ENGINEERING OFFICE 212 OPERATIONS CENTER DRIVE WILMINGTON, NC 28412 (910) 341-7807	SD 1-07
DRAWN BY JSR	PIPE TRENCH TYPICAL		
CHECKED BY BDR, P.E.			
SCALE: NOT TO SCALE			

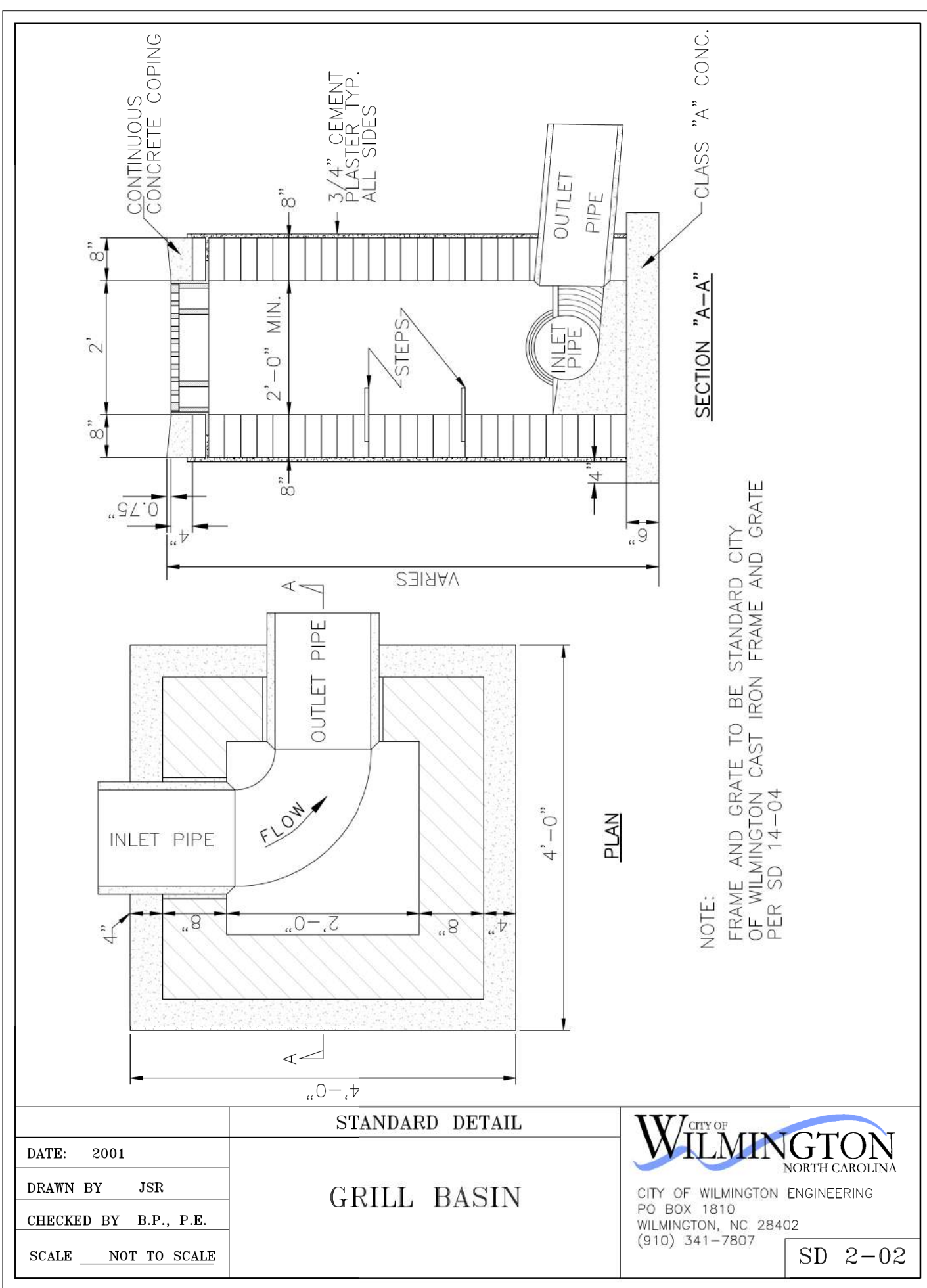


DATE: 2001	STANDARD DETAIL	 CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, NC 28402 (910) 341-7807	SD 2-03
DRAWN BY JSR, CMR	GUIDELINES FOR STORM DRAIN MANHOLE		
CHECKED BY B.P., P.E.			
SCALE: NOT TO SCALE			



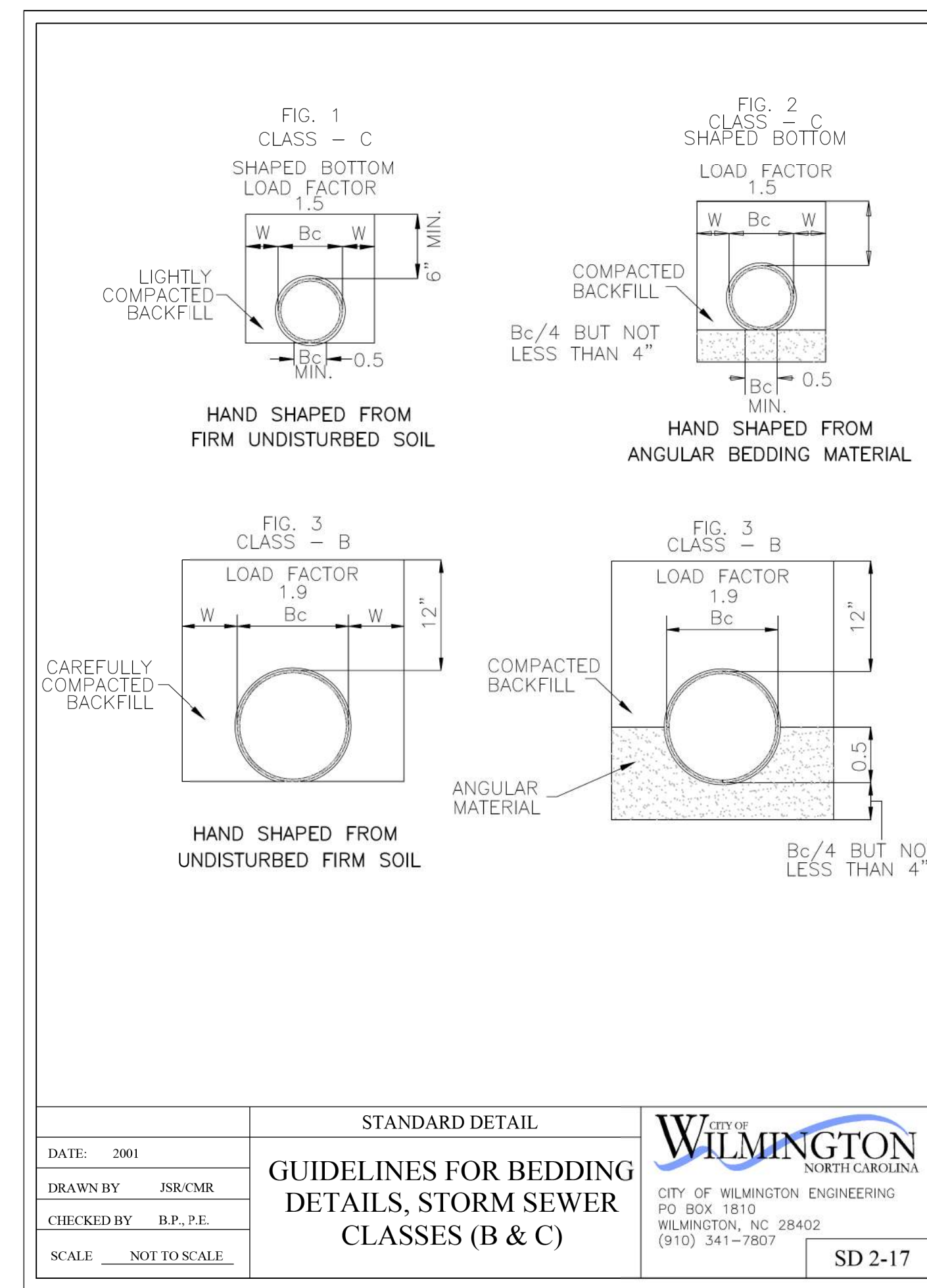
NOTES:
 1. CONTRACTOR SHALL ENSURE BOTTOM OF TRENCH IS SUITABLE FOR INSTALLATION AND DOES NOT REQUIRE FOUNDATION CONDITIONING STONE.
 2. FILL SHALL BE SUITABLE MATERIAL THAT IS FREE FROM HEAVY CLAY, GUMBOS, DEBRIS, ORGANICS AND LITTLE TO NO EXCESSIVE MOISTURE.
 3. SELECT BACKFILL MAY BE SUBSTITUTED OR REQUIRED BY CITY TO ACHIEVE COMPACTION, (I.E. #57, ABC, CRUSHED LIMESTONE, CLEAN SAND, FLOWABLE FILL, ETC).
 4. SOIL SHALL BE INSTALLED IN 6"-8" LIFTS AND COMPACTED BY A MECHANIZED TAMPER (I.E. JUMPING JACK), HOWEVER, VIBRATORY ROLLERS > 18" WIDTH MAY BE USED FOR LARGER EXCAVATIONS. THE PLATE TAMP METHOD SHALL NOT BE USED.
 5. ALL APPROVED CASTINGS SHALL BE SET FLUSH TO GRADE AND SUPPORTED IF APPLICABLE.
 6. COMPACT MATERIALS TO MINIMUM % DENSITY SHOWN IN DIAGRAM AS DETERMINED BY THE STANDARD PROCTOR METHOD ASTM D-698-A FOR SOILS; AND ASTM D-698-C FOR ABC BASE; AND BY NUCLEAR GAUGE OR CORE SAMPLE FOR ASPHALT.
 7. CUTBACKS OF ASPHALT SHALL BE PREPARED ON EDGE OF EXCAVATION OVER TOP OF UNDISTURBED SOIL.

DATE: MAY, 2013	STANDARD DETAIL	 CITY OF WILMINGTON ENGINEERING OFFICE 212 OPERATIONS CENTER DRIVE WILMINGTON, N.C. 28412 (910) 341-7807	SD 1-05
DRAWN BY JSR	PAVEMENT REPAIRS- UTILITY CUTS		
CHECKED BY D.E.C., P.E.			
SCALE: NOT TO SCALE			



NOTE:
 FRAME AND GRATE TO BE STANDARD CITY OF WILMINGTON CAST IRON FRAME AND GRATE PER SD 14-04

DATE: 2001	STANDARD DETAIL	 CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, NC 28402 (910) 341-7807	SD 2-02
DRAWN BY JSR	GRILL BASIN		
CHECKED BY B.P., P.E.			
SCALE: NOT TO SCALE			



DATE: 2001	STANDARD DETAIL	 CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, NC 28402 (910) 341-7807	SD 2-17
DRAWN BY JSR, CMR	GUIDELINES FOR BEDDING DETAILS, STORM SEWER CLASSES (B & C)		
CHECKED BY B.P., P.E.			
SCALE: NOT TO SCALE			

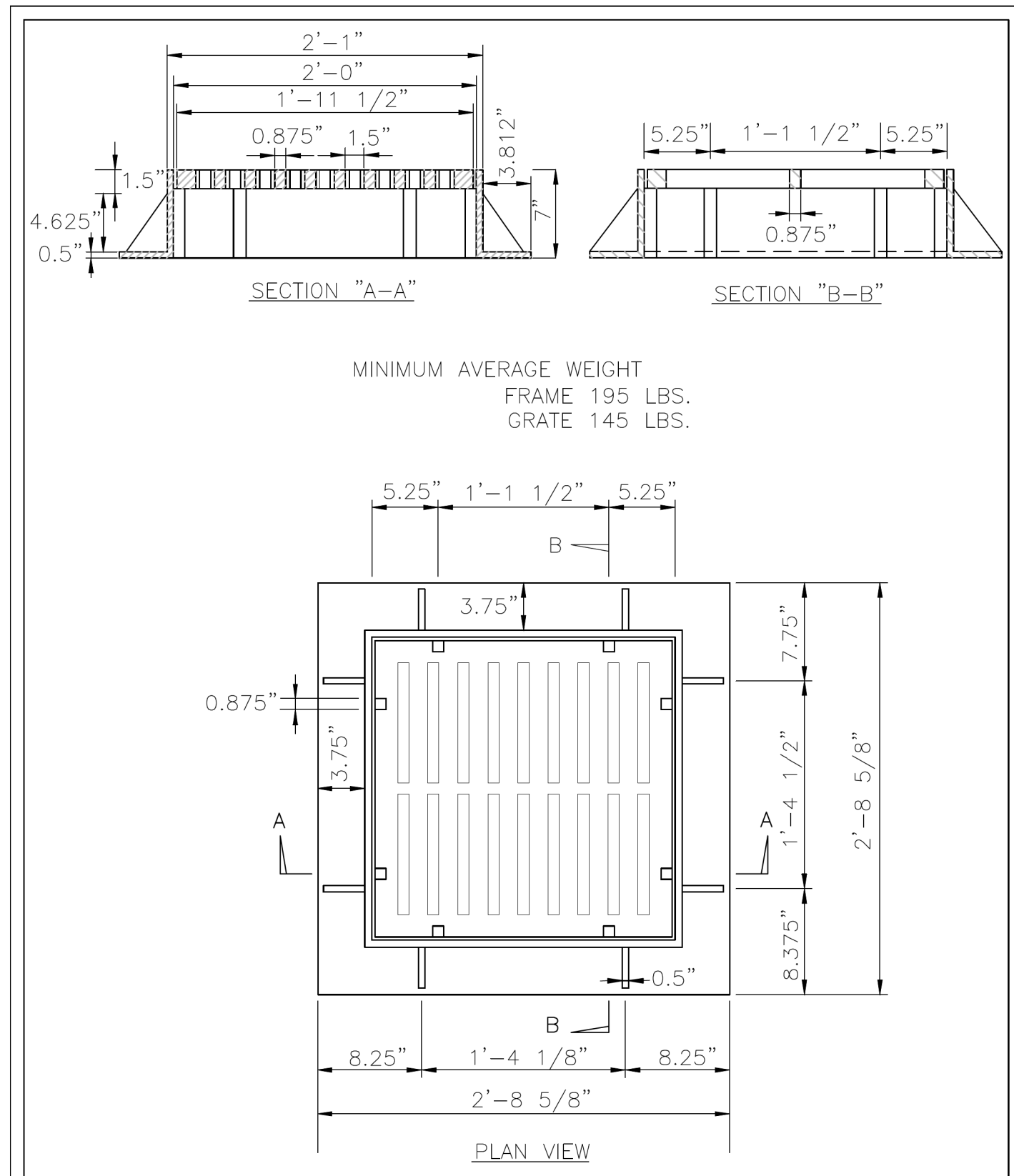
UNCW

DESIGNED BY: RC	DATE: 05/15/2018	SCO ID #: 17-18303-01A	PLANT DATE: 05/15/18
DRAWN BY: JSR	CRD BY: JSR	FILE NAME: CIV-C12_Utility_Details_20180430.dgn	AS SHOWN
CHECKED BY: B.P., P.E.	DATE: 05/15/2018	REMOVED SEAL FROM STANDARD DETAILS	REARRANGED AND CHANGED STANDARD DETAILS
SCALE: NOT TO SCALE	DATE: 05/15/2018	ISSUED FOR CONSTRUCTION	

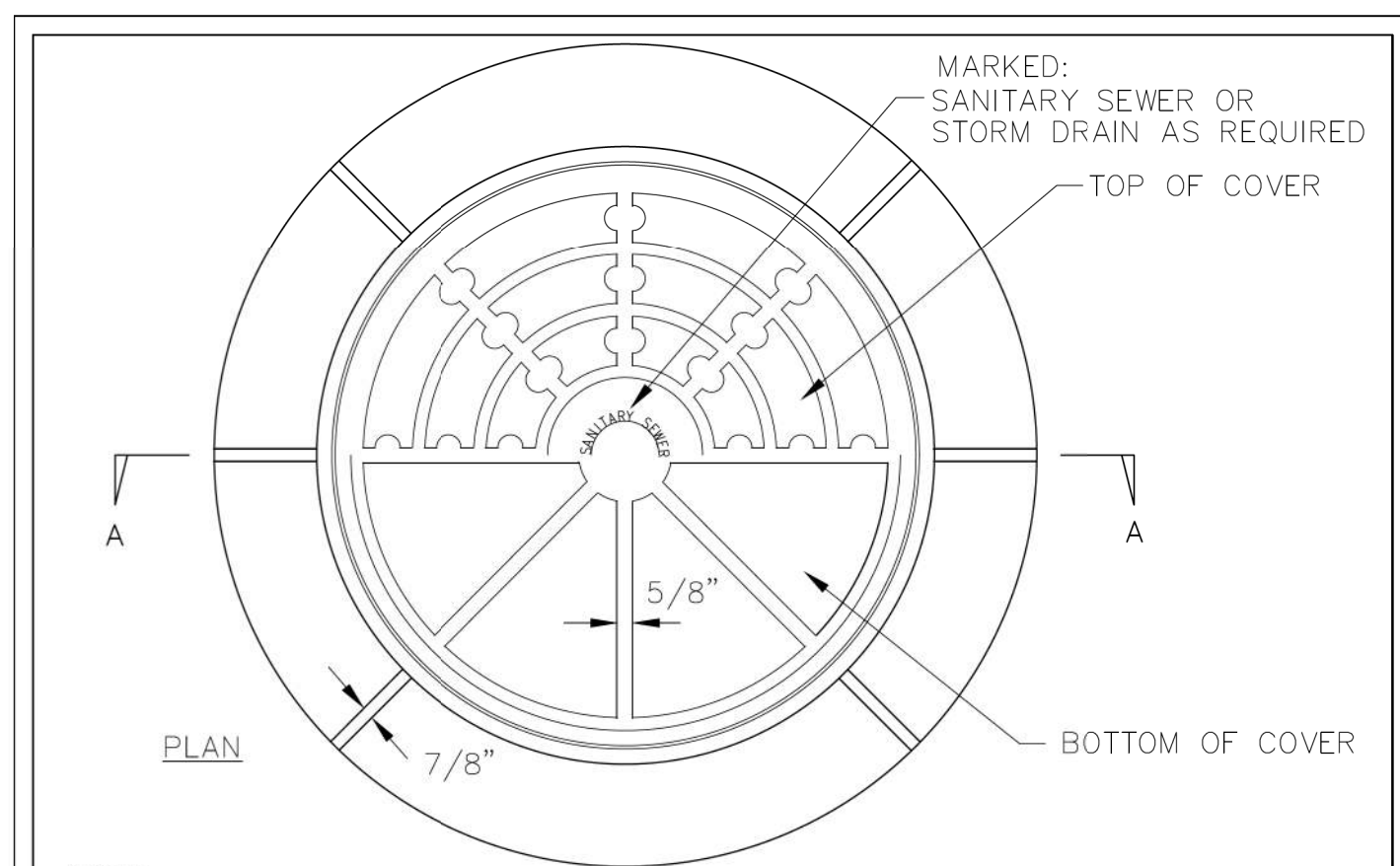
ADMINISTRATIVE ANNEK BUILDING
 UNIVERSITY OF NORTH CAROLINA - WILMINGTON
 622 MACMILLAN AVENUE, WILMINGTON, NC

UTILITY DETAILS (STORM)

PLATE REFERENCE NUMBER
 C-112
 SHEET



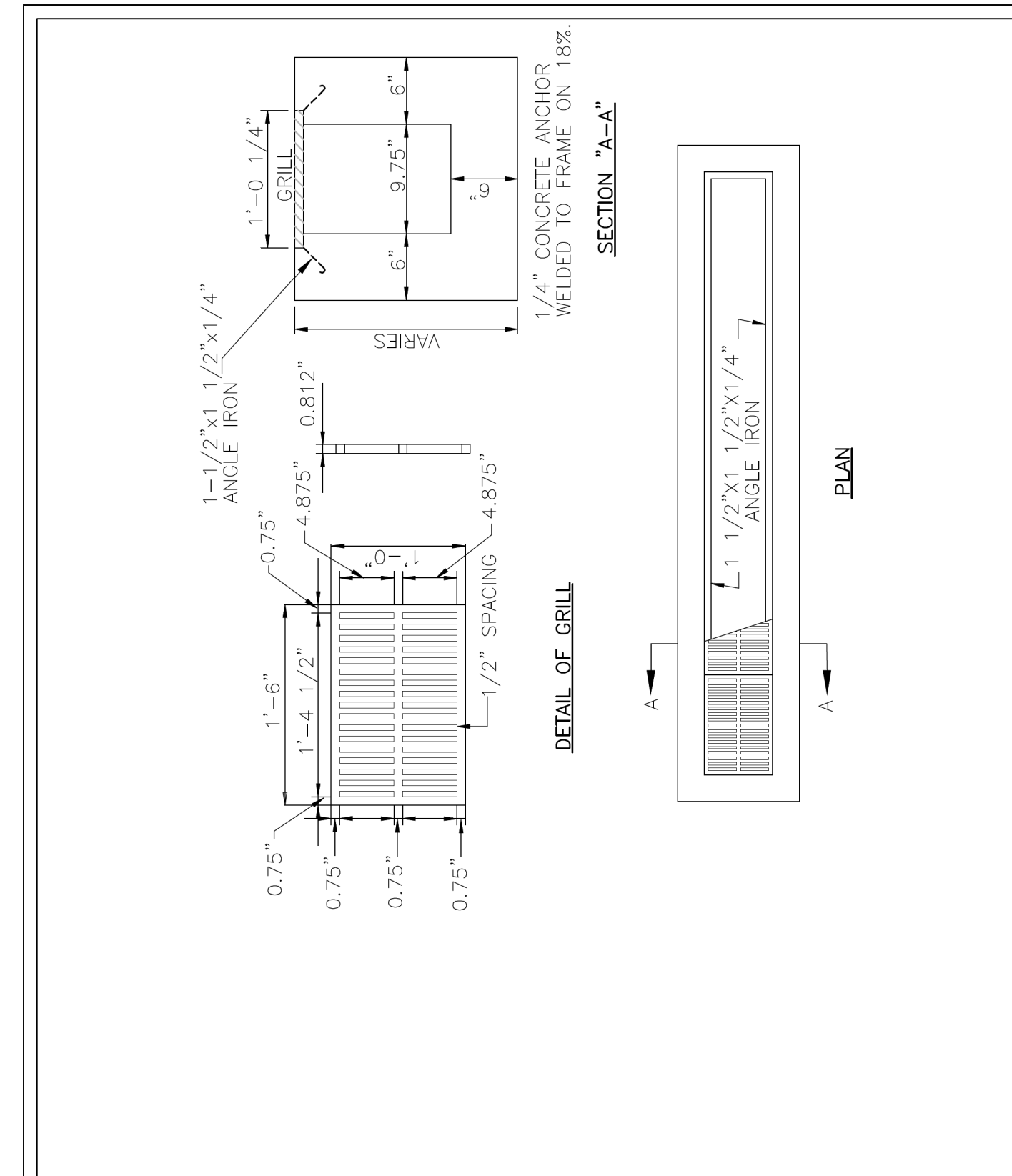
DATE: 2001	STANDARD DETAIL	<p>CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, NC 28402 (910) 341-7807</p>	SD 14-04
DRAWN BY JSR/CMR	GRILL BASIN CASTINGS		
CHECKED BY B.P., P.E.			
SCALE: NOT TO SCALE			



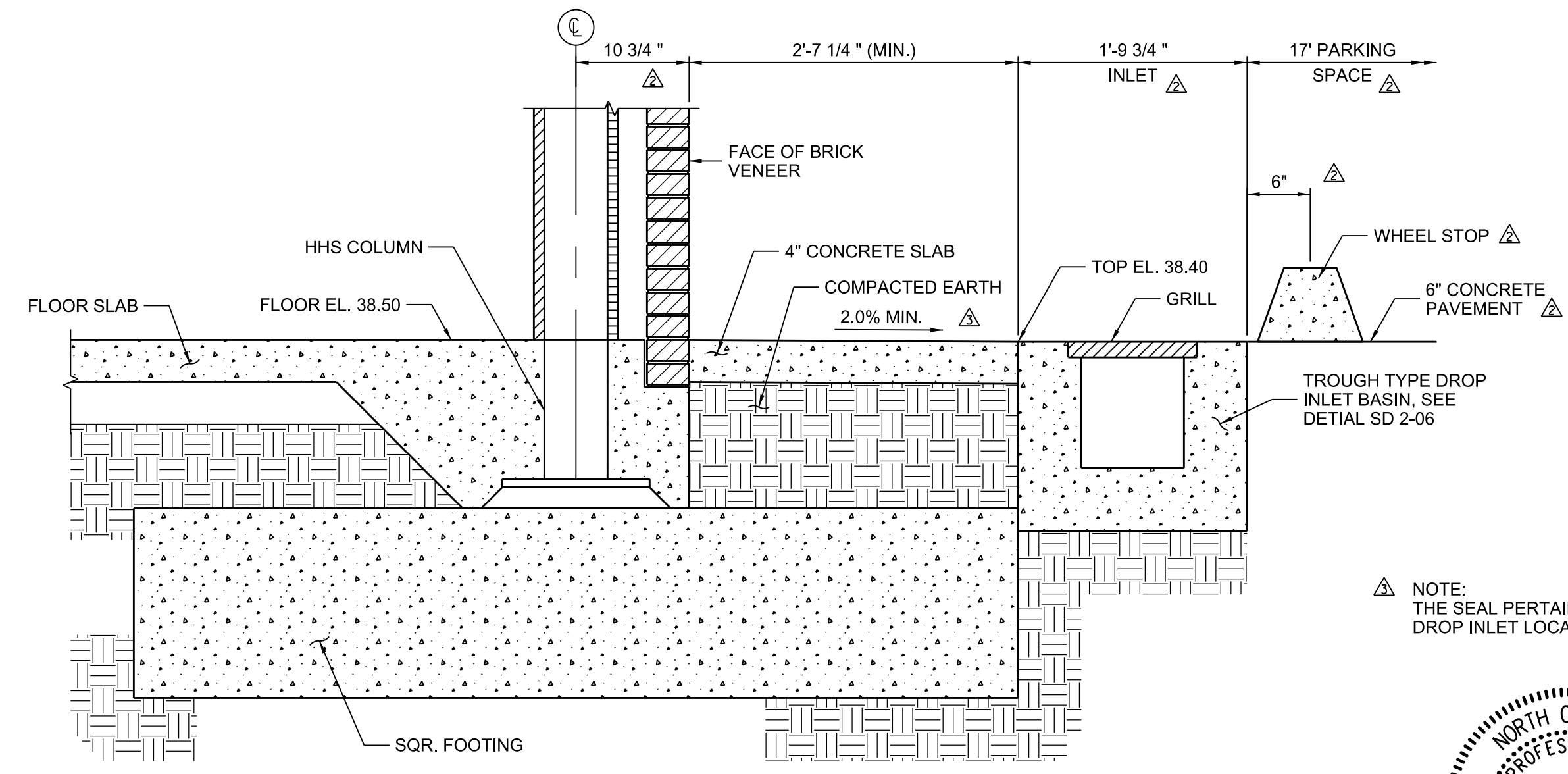
NOTE: RING & COVER CONTACT SURFACES SHALL BE MACHINED TO INSURE EVEN BEARING OF COVER AND RING

MINIMUM WEIGHTS:
RING 261 LBS.
COVER 120 LBS.

DATE: 2001	STANDARD DETAIL	<p>CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, NC 28402 (910) 341-7807</p>	SD 14-02
DRAWN BY JSR/CMR	STANDARD MAN-HOLE RING AND COVER		
CHECKED BY B.P., P.E.			
SCALE: NOT TO SCALE			



DATE: 2001	STANDARD DETAIL	<p>CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, NC 28402 (910) 341-7807</p>	SD 2-06
DRAWN BY JSR/CMR	TROUGH TYPE DROP INLET BASIN		
CHECKED BY B.P., P.E.			
SCALE: NOT TO SCALE			



△ TROUGH TYPE DROP INLET LOCATION DETAIL

NOTE: CONTRACTOR MAY REPLACE THE TROUGH TYPE DROP INLET BASIN WITH AN EQUIVALENT PREFABRICATED TRENCH DRAIN INLET SYSTEM.



△ NOTE: THE SEAL PERTAINS TO THE TROUGH TYPE DROP INLET LOCATION DETAIL ONLY.

DESIGNED BY: RC	DATE: 05/15/2018	SCO ID #:	17-18303-01A	REVISION:	RC	02/16/18	RC	03/16/18	RC
DRAWN BY: JSR	CHKD BY: MBE	FILE NAME:	CIV-C113_Utility Details_20180430.dgn	REVISION:	RC	03/16/18	RC	03/16/18	RC
DATE: 05/15/2018	SCO ID #:	17-18303-01A	REVISION:	RC	02/16/18	RC	03/16/18	RC	03/16/18
DESIGNED BY: RC	DATE: 05/15/2018	SCO ID #:	17-18303-01A	REVISION:	RC	02/16/18	RC	03/16/18	RC
DRAWN BY: JSR	CHKD BY: MBE	FILE NAME:	CIV-C113_Utility Details_20180430.dgn	REVISION:	RC	02/16/18	RC	03/16/18	RC
DATE: 05/15/2018	SCO ID #:	17-18303-01A	REVISION:	RC	02/16/18	RC	03/16/18	RC	03/16/18
DESIGNED BY: RC	DATE: 05/15/2018	SCO ID #:	17-18303-01A	REVISION:	RC	02/16/18	RC	03/16/18	RC

UTILITY DETAILS (STORM)

PLATE REFERENCE NUMBER: C-113

SHEET