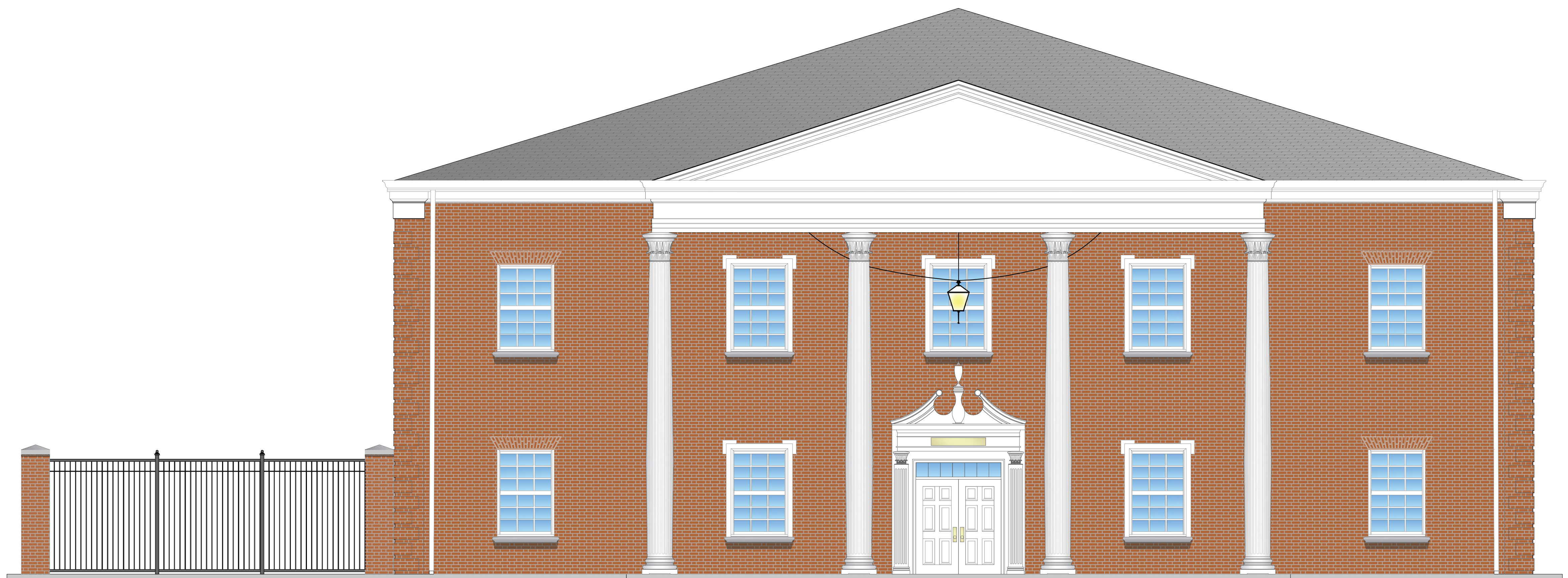




ADMINISTRATIVE ANNEX BUILDING

UNIVERSITY OF NORTH CAROLINA - WILMINGTON

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



DATE: 01/15/2018

PROJECT NO: XXXX

DESIGNED BY: [blank]

DRN BY: [blank]

CS SUBMITTED BY: [blank]

CS CO: [blank]

FILE NAME: [blank]

SIZE: AS SHOWN

ARCH D: [blank]

PLOT DATE: 01/15/2018

ISSUED FOR CONSTRUCTION

[blank]

[blank]

[blank]

[blank]

[blank]

[blank]

[blank]

[blank]

[blank]

[blank]

[blank]

[blank]

[blank]

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

COVER SHEET

[blank]

[blank]

PLATE REFERENCE NUMBER

G-001
SHEET 01 OF 126

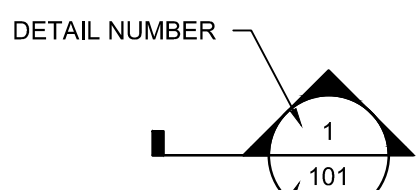

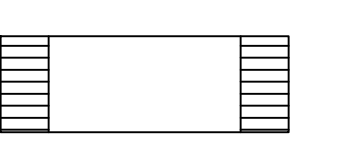
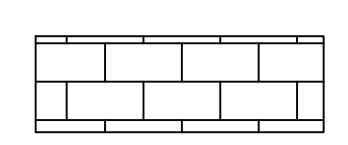
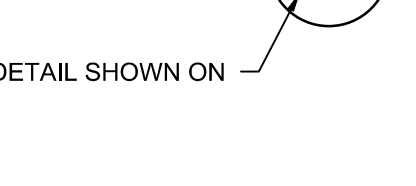
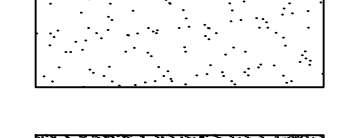
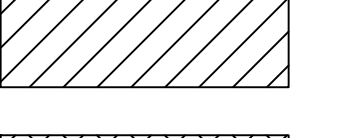
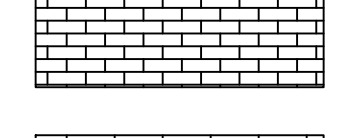
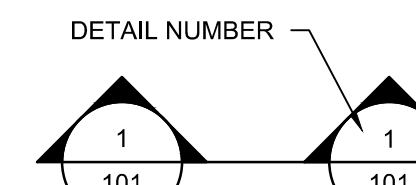
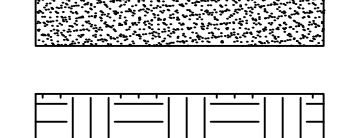
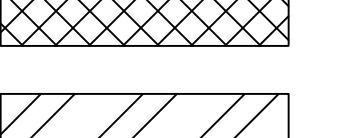

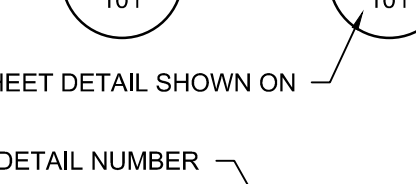

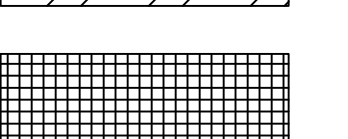
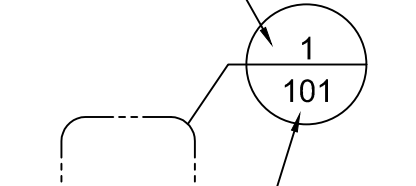
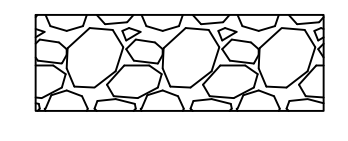
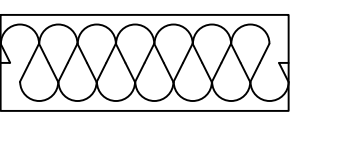

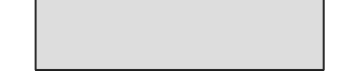
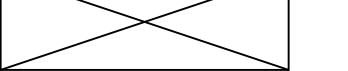
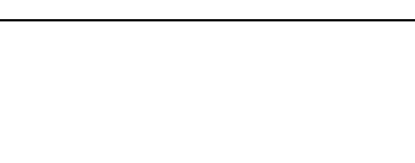


GENERAL NOTES

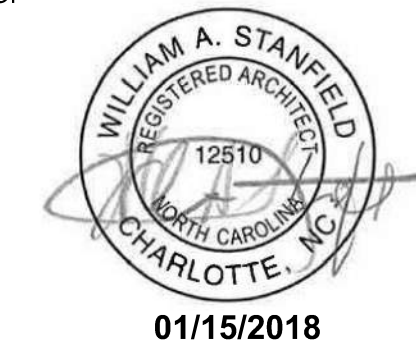
- THE DRAWINGS INDICATE THE GENERAL EXTENT OF WORK. THE DRAWINGS ARE NOT INTENDED TO INDICATE OR DESCRIBE ALL WORK REQUIRED FOR THE FULL PERFORMANCE AND COMPLETION OF THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- THE ENUMERATION OF PARTICULAR ITEMS OF WORK IN ONE PORTION OF THE CONTRACT DOCUMENTS SHALL 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

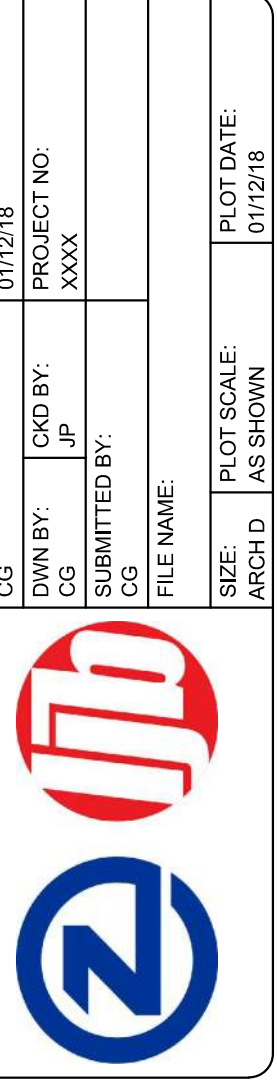
A		D		H		N		S	
A.C.	AIR CONDITIONED	DET.	DETAIL	H.	HIGH	N.A.	NOT APPLICABLE	S.	SUPPLY
A.C.M.	ASBESTOS CONTAINING MATERIAL	DIA.	DIAMETER	H.B.	HOSE BIBB	N.I.C.	NOT IN CONTRACT	S.A.	SUPPLY AIR
A.D.	AREA DRAIN	DIFF.	DIFFUSER	H.C.	HOLLOW CORE	NO. #	NUMBER	SCH.	SCHEDULE
A.F.F.	ABOVE FINISH FLOOR	DIM.	DIMENSION	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	GALV.	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</p> <p>SHEET DETAIL SHOWN ON</p>	 <p>CONCRETE</p>	 <p>CMU (SECTION)</p>	 <p>CMU (ELEVATION)</p>
 <p>DETAIL NUMBER 101</p> <p>SHEET DETAIL SHOWN ON</p>	 <p>SAND</p>	 <p>BRICK (SECTION)</p>	 <p>BRICK (ELEVATION)</p>
 <p>DETAIL NUMBER 101</p> <p>SHEET DETAIL SHOWN ON</p>	 <p>GROUT</p>	 <p>CMU (PLAN)</p>	 <p>GRATING</p>
 <p>DETAIL NUMBER 101</p> <p>SHEET DETAIL SHOWN ON</p>	 <p>EARTH (COMPACTED)</p>	 <p>STEEL</p>	
 <p>DETAIL NUMBER 101</p> <p>SHEET DETAIL SHOWN ON</p>	 <p>EARTH (UNDISTURBED)</p>	 <p>RIGID INSULATION</p>	
 <p>DETAIL NUMBER 101</p> <p>SHEET DETAIL SHOWN ON</p>	 <p>GRAVEL</p>	 <p>BATT INSULATION</p>	
 <p>DETAIL NUMBER 101</p> <p>SHEET DETAIL SHOWN ON</p>	 <p>ASPHALT</p>	 <p>BLOCKING</p>	



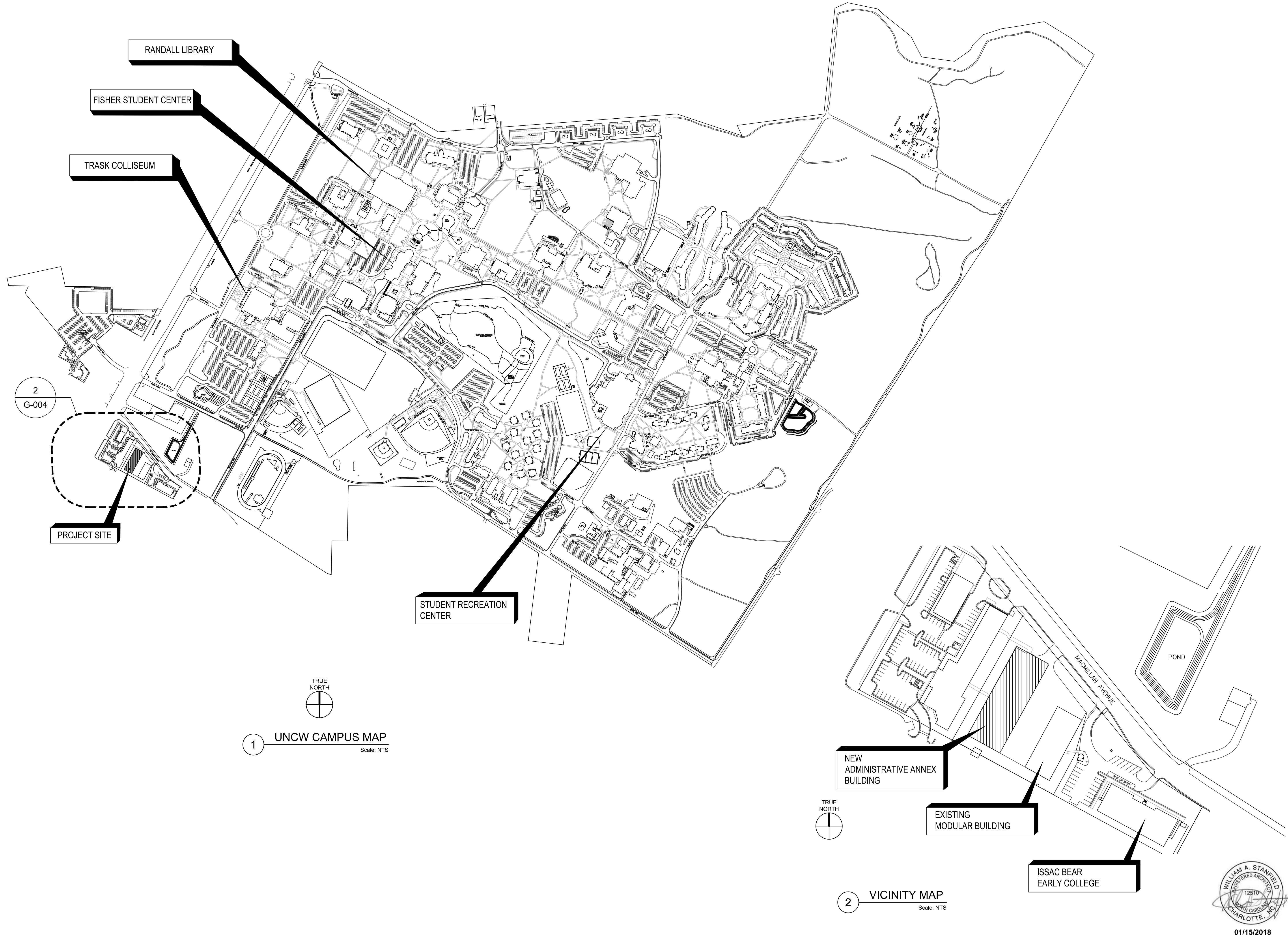
DATE:	01/12/18
PROJECT NO.:	XXXX
DESIGNED BY:	CG
DRAWN BY:	JP
CHECKED BY:	CG
DATE SUBMITTED BY:	CG
FILE NAME:	
SIZE:	PLOT SCALE: AS SHOWN
ARCH D:	PLOT DATE: 01/12/18



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



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



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 various design firms and their contact information.

- Code Edition: 2012 North Carolina State Building Code - Administrative, 2012 North Carolina State Building Code - Building, 2012 North Carolina State Building Code - Energy Conservation, etc.

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

Sprinklers: No, Yes, Partial, NFPA 13-02, NFPA 13R-02, NFPA 13D-02, ESFR
Standpipes: No, Yes, NFPA 14-00 Class: I, II, III, Wet, Dry

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

Mezzanine: No, Yes (Enclosed - permitted by 505.4; Exception 5)
High Rise: No, Yes Central Reference Sheet # (if provided)

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

Table with columns: FLOOR, EXISTING, NEW, RENO/UPFIT. Shows area breakdown for 1st and 2nd floors.

ALLOWABLE AREA (per 2012 North Carolina State Building Code)

Primary Occupancy: Assembly, Education, Factory, F-1 Moderate, F-2 Low, F-3 Health, F-4 HPM, Hazardous, H-1 Detonate, H-2 Deftagrate, H-3 Combust, H-4 Health, H-5 HPM, Institutional, I-1, I-2 Hospitals, I-3 Jails, I-4 Daycare, I-3 Use Condition, I-1, I-2, I-3, I-4, I-5, I-3 Mercantile Residential, R-1 Hotels, R-2 Condos, R-3, R-4, I-3 Storage, S-1 Moderate, S-2 Low, High-piled, Utility and Miscellaneous, Parking Garage, Open, Enclosed, Repair Garage

Secondary Occupancies: Assembly, Education, Factory, F-1 Moderate, F-2 Low, F-3 Health, F-4 HPM, Hazardous, H-1 Detonate, H-2 Deftagrate, H-3 Combust, H-4 Health, H-5 HPM, Institutional, I-1, I-2 Hospitals, I-3 Jails, I-4 Daycare, I-3 Use Condition, I-1, I-2, I-3, I-4, I-5, I-3 Mercantile Residential, R-1 Hotels, R-2 Condos, R-3, R-4, I-3 Storage, S-1 Moderate, S-2 Low, High-piled, Utility and Miscellaneous, Parking Garage, Open, Enclosed, Repair Garage

Special Uses:

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

Special Provisions: 509.2, 509.3, 509.4, 509.5, 509.6, 509.7, 509.8, 509.9

Mixed Occupancy: No, Yes Separation: 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. SEE NFPA 101 6.1.1.4.13 INCIDENTAL EXCEPTION

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 = 1
Allowable Area of Occupancy A Allowable Area of Occupancy B

Table with columns: STORY NO., DESCRIPTION AND USE, (A) BLDG. AREA PER STORY (ACTUAL), (B) TABLE 503.3 AREA, (C) AREA FOR FRONTAGE INCREASE 1, (D) AREA FOR SPRINKLER INCREASE 2, (E) ALLOWABLE AREA OR UNLIMITED 3, (F) MAXIMUM BUILDING AREA 4. Shows data for 1st and 2nd floors.

- 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 (A2) from Section 506.1 is computed thus:
a. A2 = tabular area 23,000
b. I2 = Percent of Frontage Increase N/A
c. I2 = Percent Sprinkler Increase N/A
d. Allowable Area A2 = (A1 x I1) + (A1 x I1) + (A1 x I1)
e. Allowable Area A2 = (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. Shows height limits for different construction types.

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. Lists various building elements and their fire protection requirements.

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. Lists various building elements and their fire protection requirements.

* 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, MINIMUM NUMBER OF EXITS 2, TRAVEL DISTANCE, ARRANGEMENT MEANS OF EGRESS (38.2.5) 1,3. Shows exit requirements for 1st and 2nd floors.

- 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. Shows exit width requirements for 1st and 2nd floors.

- 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. Shows egress capacity for stairs.

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). Shows plumbing fixture requirements for 1st and 2nd floors.

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)

Description of assembly: Asphalt shingle over plywood deck, unoccupied space, insulation, and gwb
U-Value of total assembly: R-19
R-Value of insulation: N/A
Skylights in each assembly: N/A
U-Value of skylight:
Total square footage of skylights in each assembly:

Exterior Walls (each assembly)

Description of assembly: 8"x4"x4" brick layer, 1" rigid insul., vapor barrier, 6" batt insulation (R-19).
U-Value of total assembly: U-0.073
R-Value of insulation: 1" Thermax = R-6.5 6" Batt = R-19
Openings (windows or doors with glazing): Glazed med. stile entrance door U-0.50
U-Value of assembly:
solar heat gain coefficient (SHGC): XX
projection factor (PF):
low e required, if applicable:
Door R-Value:

Walls adjacent to unconditioned space (each assembly)

Description of assembly: N/A
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:

Walls below grade (each assembly)

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

Floors over unconditioned space (each assembly)

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

Floors slab on grade

Description of assembly: slab-on-grade
U-Value of total assembly: N.R.
R-Value of insulation: N/A
Horizontal/vertical requirement: N/A
slab heated: N/A

SPECIAL INSPECTIONS (per 2012 North Carolina State Building Code)

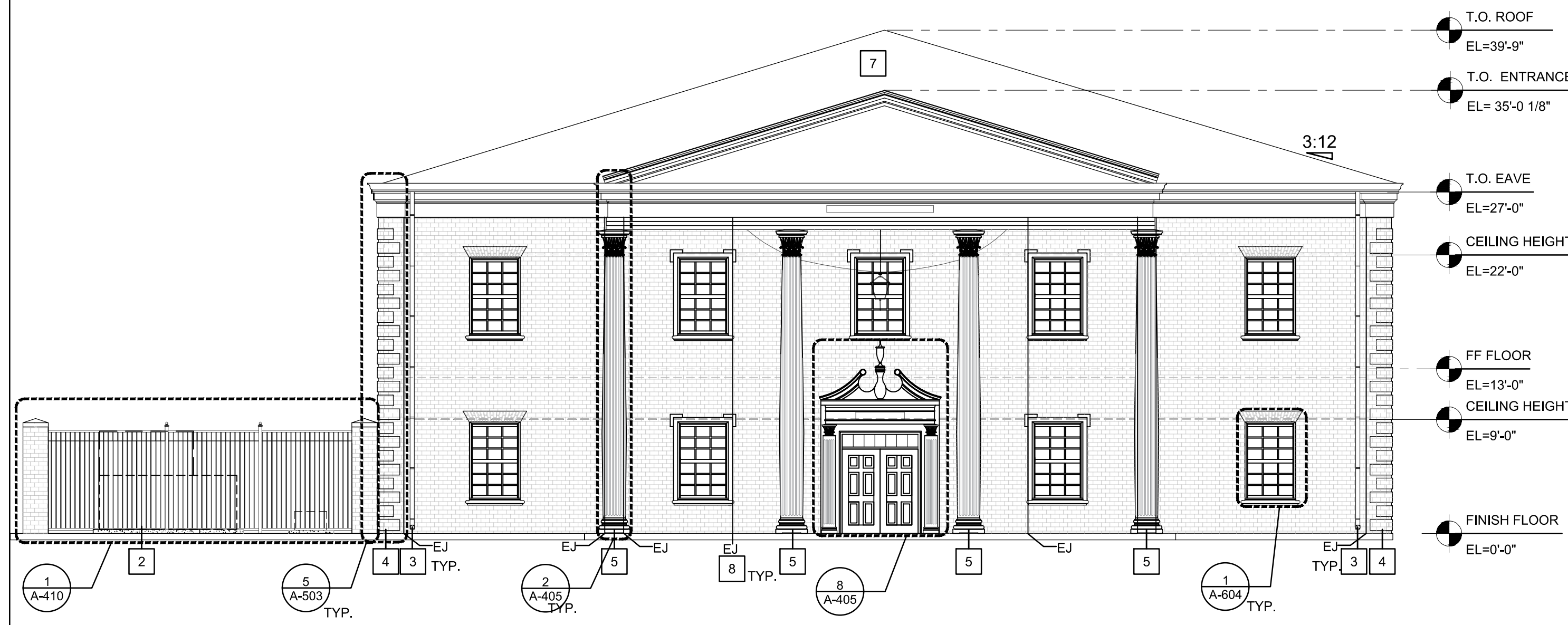
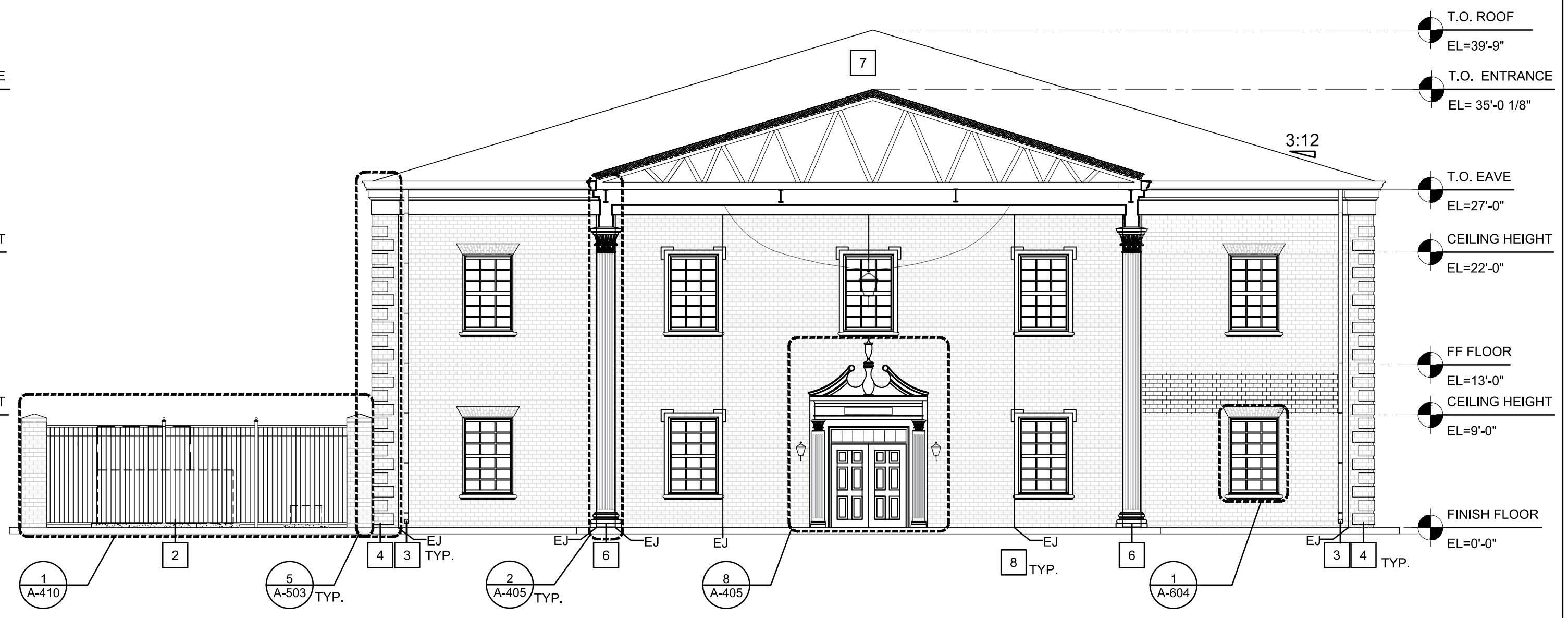
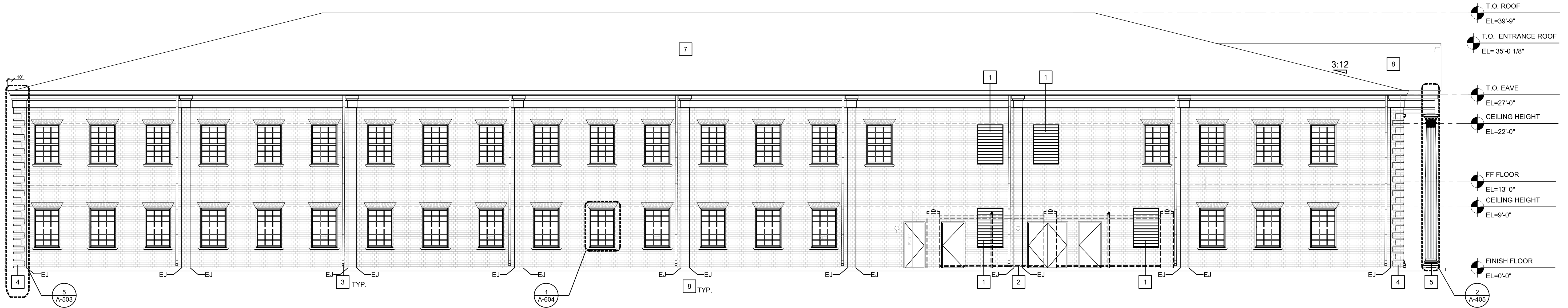
No Special Inspections required for this project Special Inspections required. (Refer to Sheet S-003 Special Inspections)



Administrative Annex Building, University of North Carolina - Wilmington, 622 MacMillan Avenue, Wilmington, NC. Building Code Summary, Plate Reference Number G-005, Sheet 05 of 126. Issued for Construction 01/15/18.

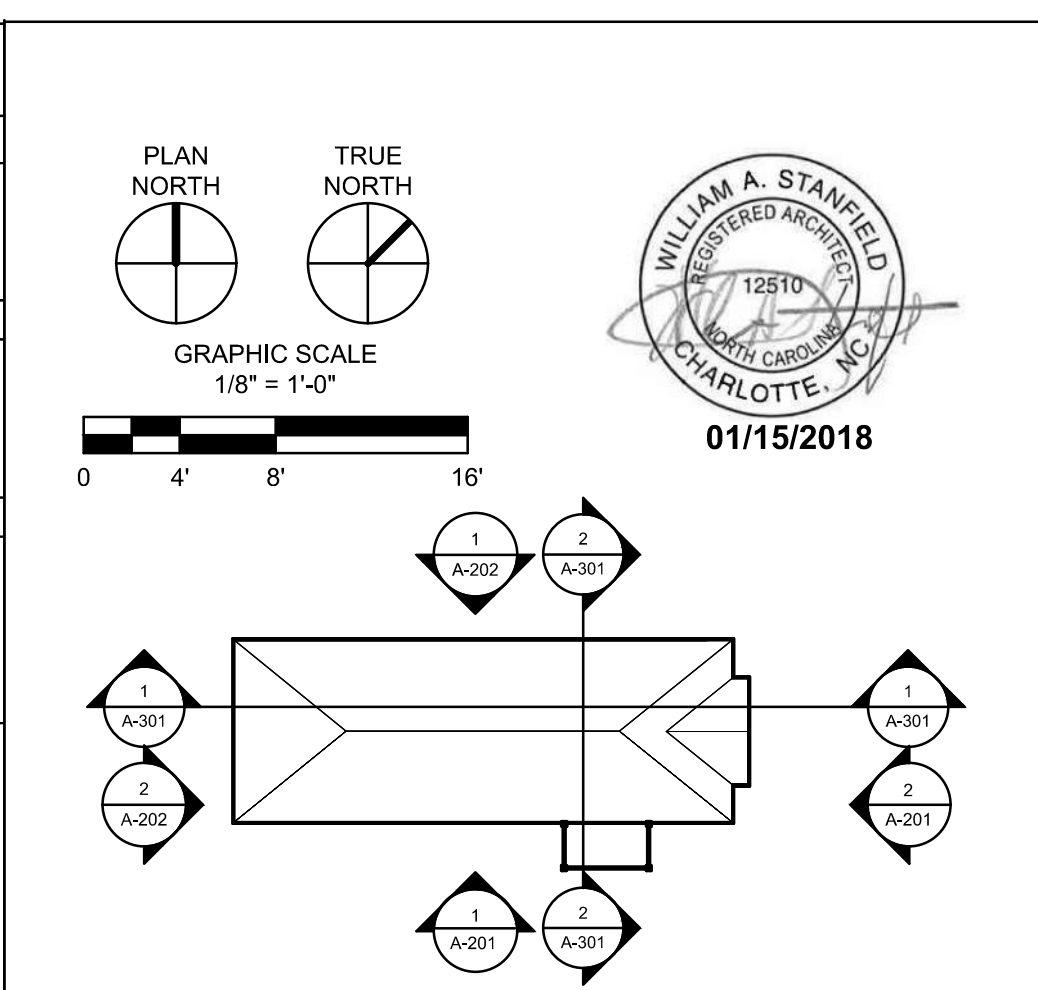
DESIGNED BY: CGO, DATE: 01/12/18
DRAWN BY: JSP, PROJECT NO: XXXX
CHECKED BY: CGO, SUBMITTED BY: CGO
FILE NAME:
ARCH D AS SHOWN PLOT DATE: 01/12/18

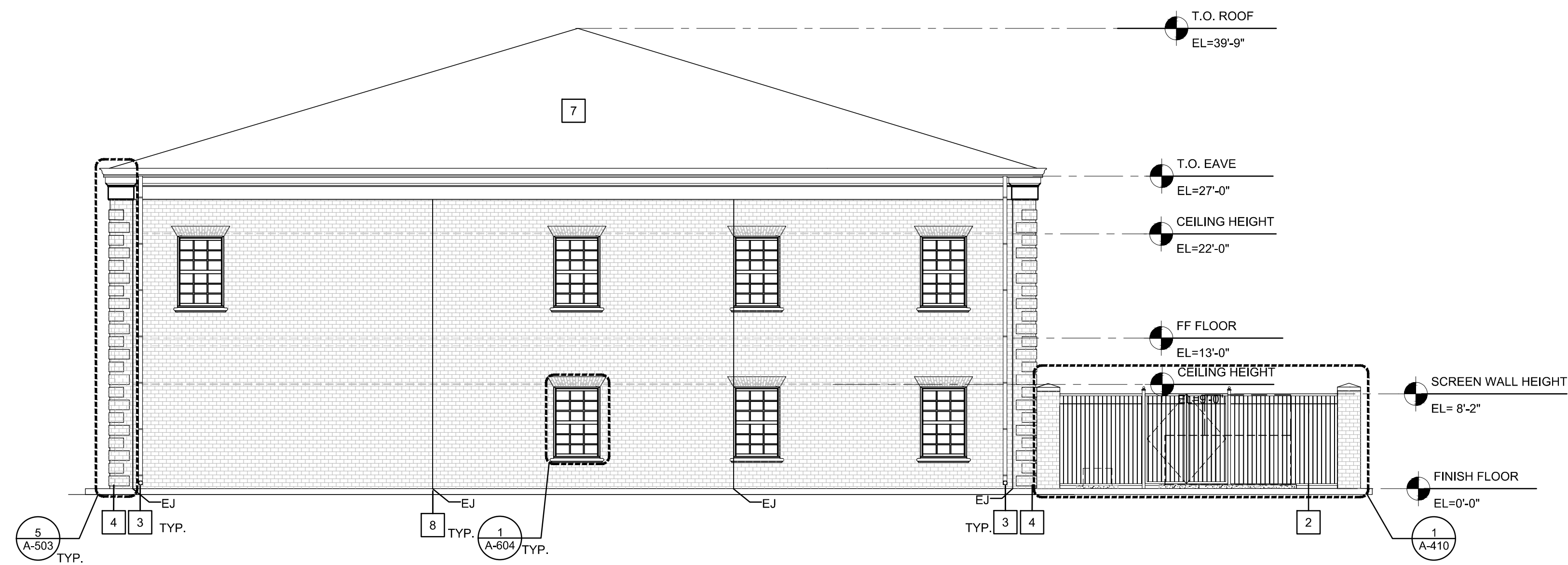
PLATE REFERENCE NUMBER G-005 SHEET 05 OF 126


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"

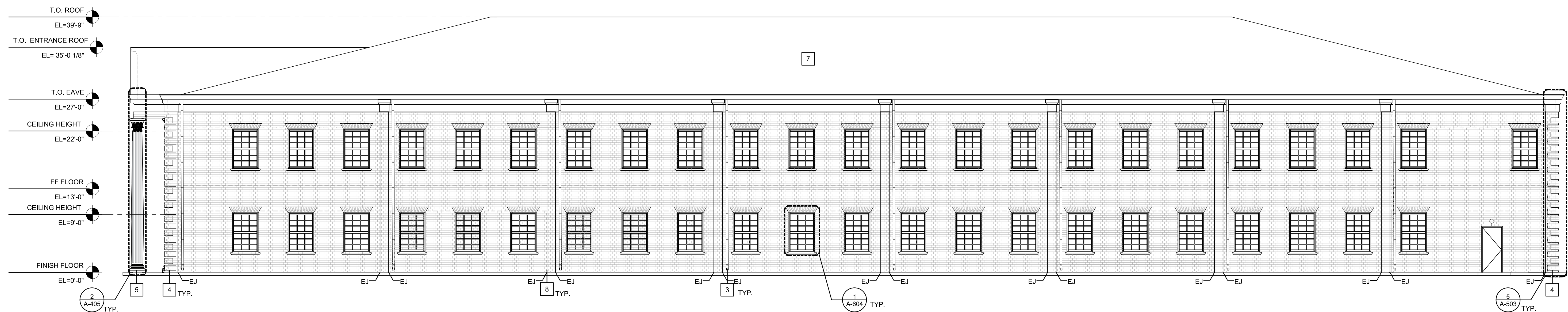
CONSTRUCTION KEYNOTES	
1	METAL LOUVER
2	OUTLINE OF EXTERIOR EQUIPMENT YARD FENCE
3	4" ALUM. METAL DOWNSPOUT
4	BRICK QUOINS (SEE MASONRY DETAILS SHEET A-503)
5	"TEMPLE OF THE WINDS" COLUMN (SEE COLUMN DETAILS SHEET A-503)
6	"TEMPLE OF THE WINDS" PILASTER (SEE COLUMN DETAILS SHEET A-405)
7	ASPHALT SHINGLE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





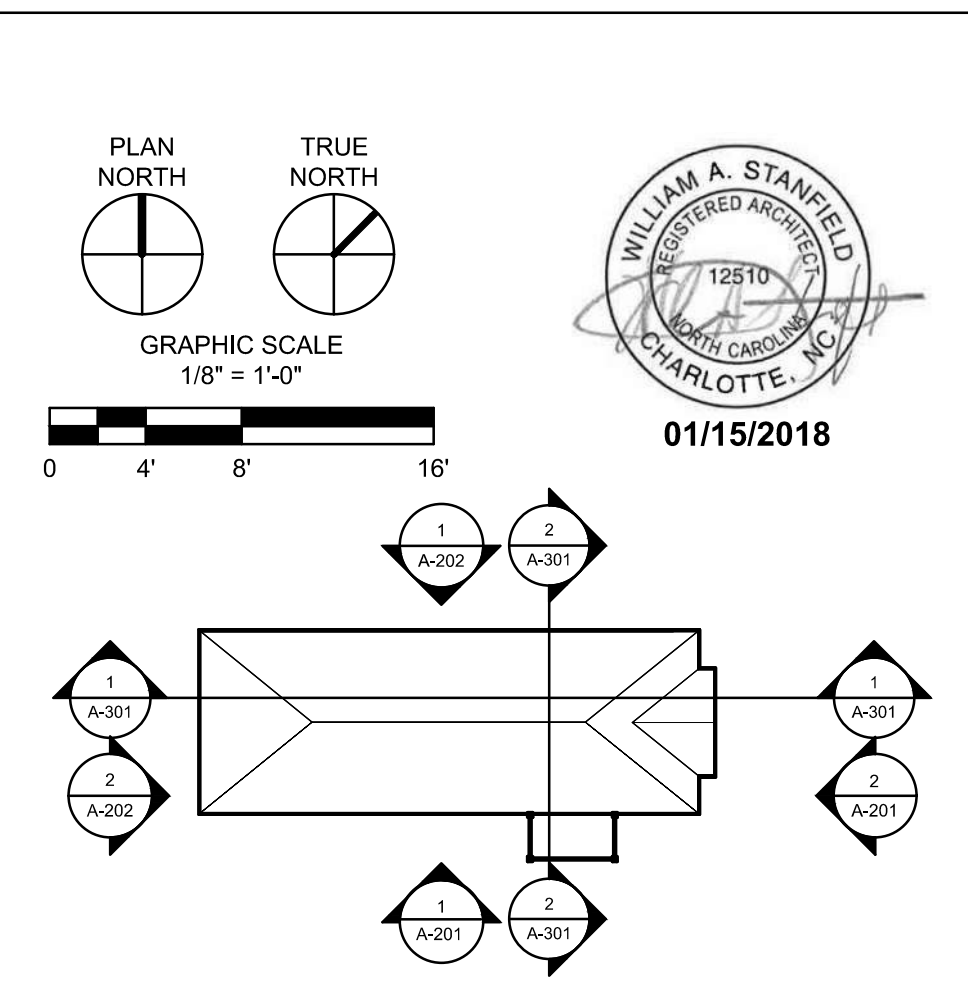
2 WEST ELEVATION
 Scale: 1/8" = 1'-0"



1 SOUTH ELEVATION
 Scale: 1/4" = 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-405)
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	



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
 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)
 PERCENT IMPERVIOUS, 77.4%
 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 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.
 TROUGH DRAIN DETAILS SEE PLATE REFERENCE NUMBER C-113.
 BROKEN OR MISSING SIDEWALK PANELS, DRIVEWAY PANELS AND CURBING WILL BE REPLACED.

- UNDERGROUND COMM - UC
- UNDERGROUND POWER - UP
- SANITARY SEWER LINE - SS
- STORMDRAIN PIPE - SD
- WATERLINE - W
- UNKNOWN UTILITY - UNK
- CHAIN LINK FENCE - X
- RIGHT OF WAY - RW
- CONTOUR ELEVATION - 100
- EDGE OF PAVEMENT - EP

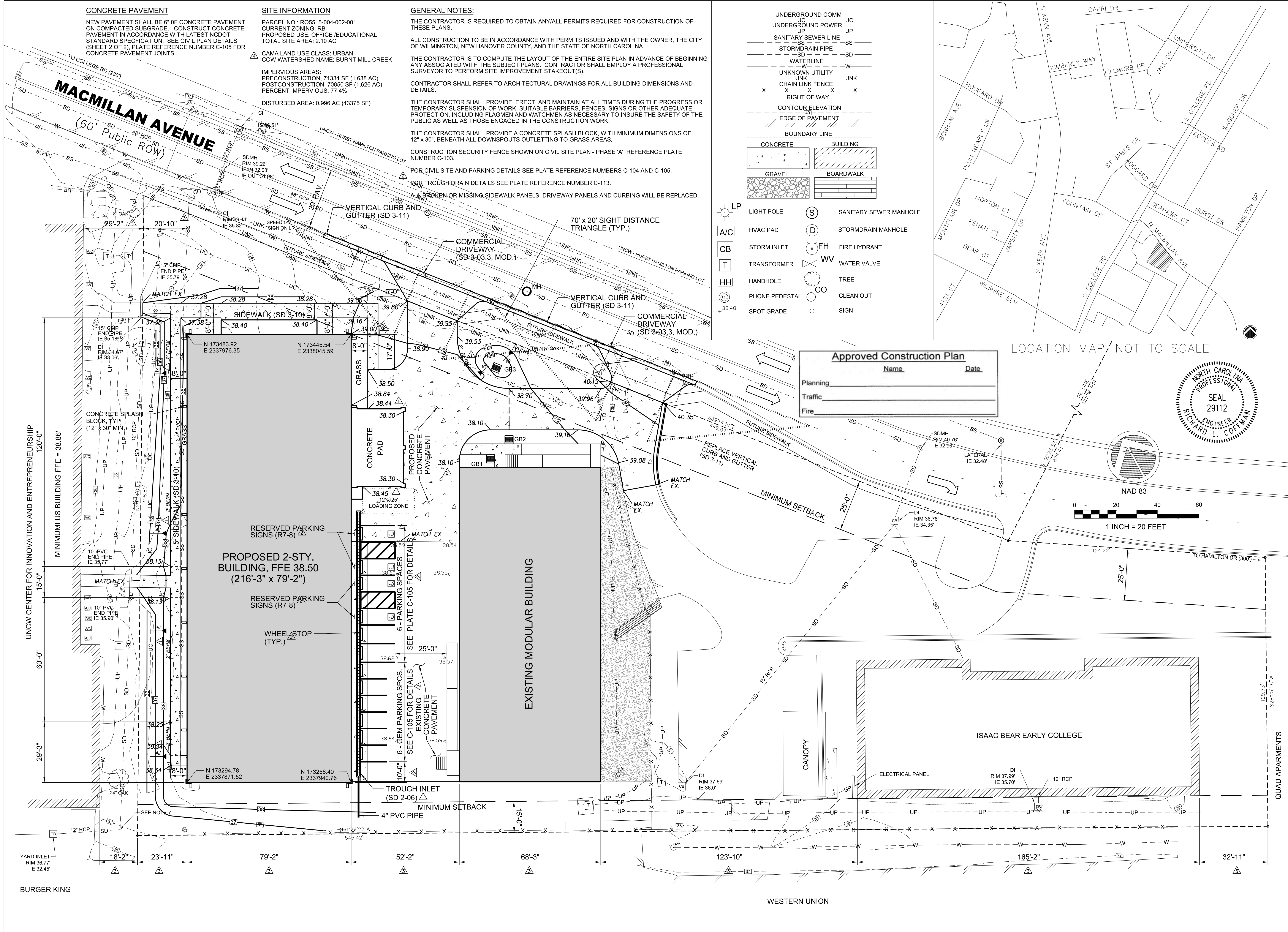
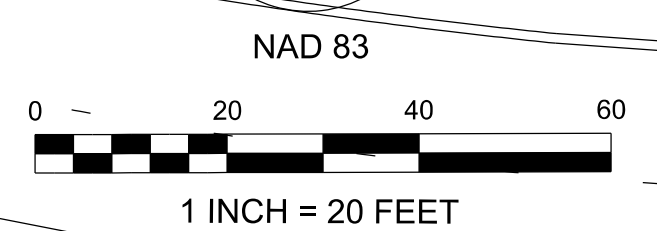
- BOUNDARY LINE
- CONCRETE
- GRAVEL
- BUILDING
- BOARDWALK

- LP LIGHT POLE
- A/C HVAC PAD
- CB STORM INLET
- T TRANSFORMER
- HH HANDHOLE
- PHONE PEDESTAL
- SPOT GRADE
- SANITARY SEWER MANHOLE
- STORMDRAIN MANHOLE
- FH FIRE HYDRANT
- WW WATER VALVE
- TREE
- CLEAN OUT
- SIGN



Approved Construction Plan

Name	Date
Planning	
Traffic	
Fire	



DATE	RC	RC	RC	RC	RC
05/15/2018					
07/26/18					
05/19/18					
02/11/18					
01/25/18					
11/17/17					

ADDED NOTES:
 ADDED DIMENSIONS TO PROPERTY LINE AND ADJUSTED GRADING ELEVATION AROUND ANNEX
 ADJUSTED GRADING ELEV. AT THE CORNER OF ANNEX AND ANY CORNER OF MODULAR BLDG. REVISED NOTES AND PARKING
 ADDED GRADING CONTOURS, RELOCATED TROUGH TYPE DRAIN INLET AND PARKING SPACES

DESIGNED BY: JTB
 DRAWN BY: JTB
 CHECKED BY: JTB
 DATE: 05/15/2018

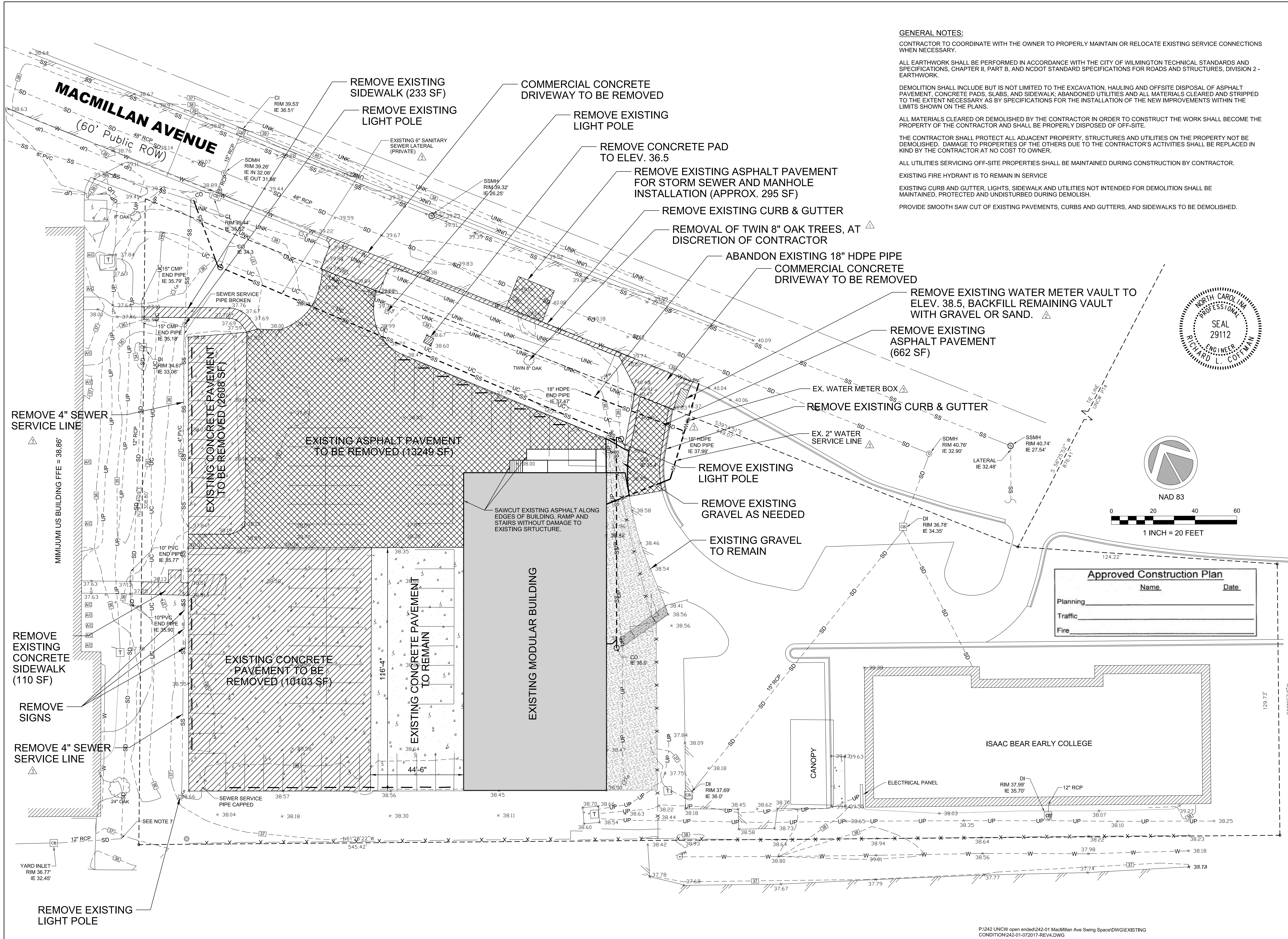
SC0 ID #: 17-18303-01A
 PLOT DATE: 05/15/18

200 N. MARKET BLVD.
 1001 AVERBROOK ROAD, SUITE 215
 GARNER, NC 27529
 (919) 584-4710

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

CIVIL SITE PLAN

PLATE REFERENCE NUMBER
C-101
 SHEET



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.

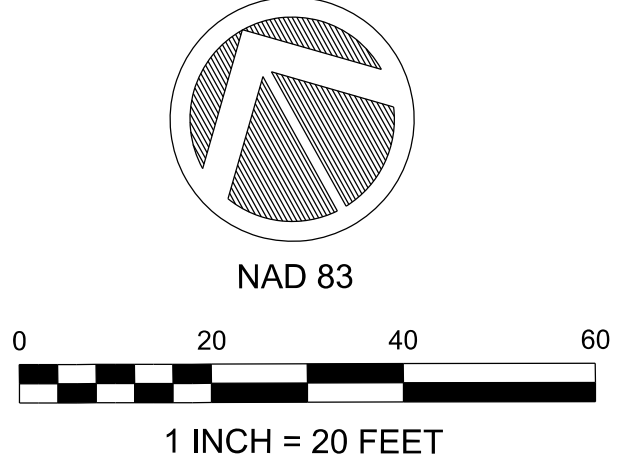
THE CONTRACTOR SHALL PROTECT ALL ADJACENT PROPERTY, STRUCTURES AND UTILITIES ON THE PROPERTY NOT BE DEMOLISHED. DAMAGE TO PROPERTIES OF THE OTHERS DUE TO THE CONTRACTOR'S ACTIVITIES SHALL BE REPLACED IN KIND BY THE CONTRACTOR AT NO COST TO OWNER.

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.



Approved Construction Plan	
Name	Date
Planning	
Traffic	
Fire	

DATE:	05/15/2018
DESIGNED BY:	RC
DRAWN BY:	RC
CHECKED BY:	RC
DATE:	05/15/18
SCALE:	AS SHOWN
FILE NAME:	C:\102_Site Demolition Plan_20180430.dgn
PROJECT:	17-18303-01A
SYMBOL:	

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

ISAAC BEAR EARLY COLLEGE

PLATE REFERENCE NUMBER
C-102

SHEET



RC	05/15/18	RC
RC	11/17/17	RC

REMOVED REFERENCE TO PHASE A CONSTRUCTION AND ADDED NOTES FROM TEMPORARY ACCESS SYMBOL
--

DESIGNED BY: RC	DATE: 05/15/2018	SCO ID #: 17-18303-01A
CHKD BY: JMB	ISSUED BY: ZAPATA/LAB, PLLC	FILE NAME: CIV. C-103_Site Plan_Phase A_20180430.dgn
ARCH D: AS SHOWN	PLT DATE: 05/15/18	SIZE: AS SHOWN

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

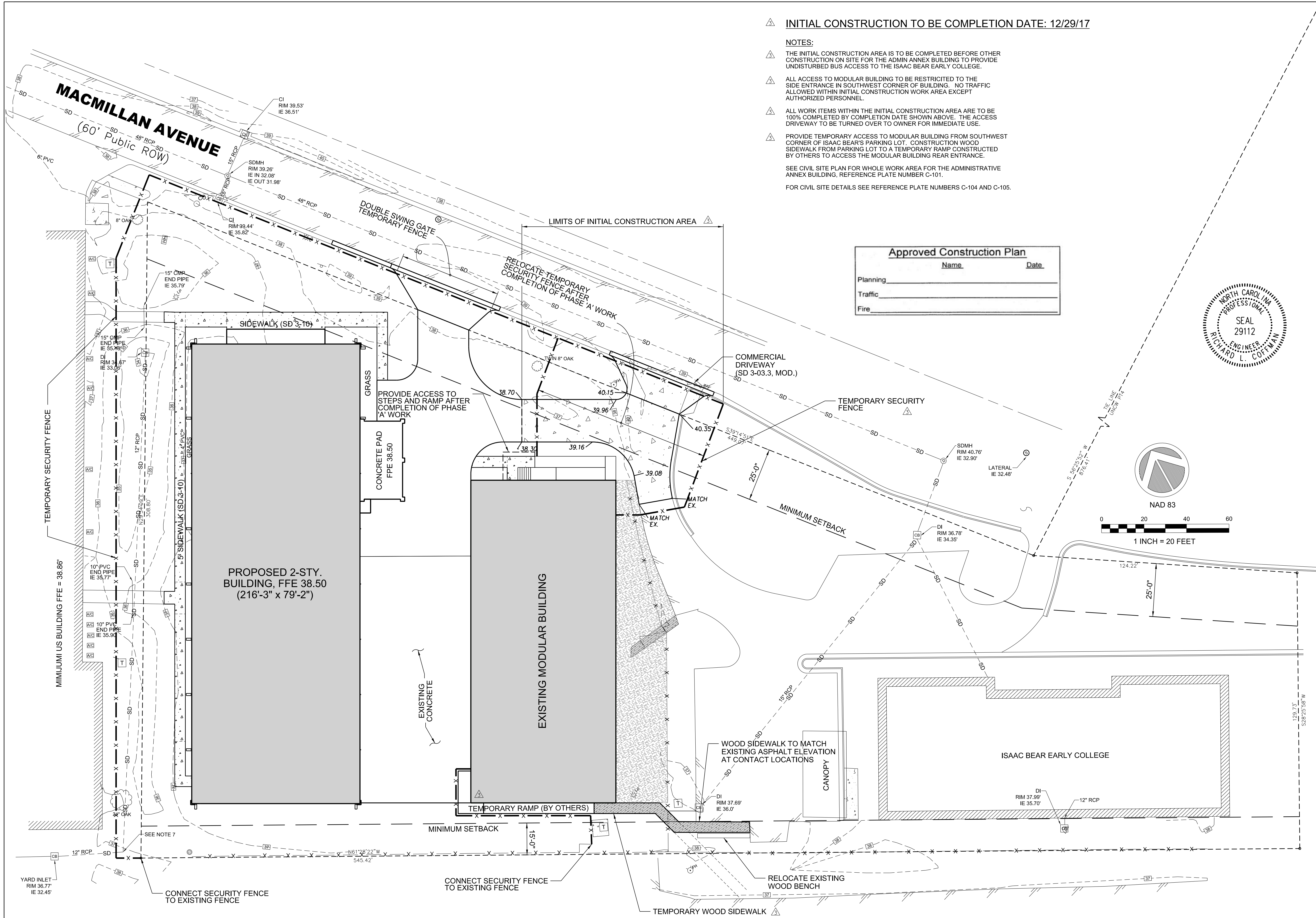
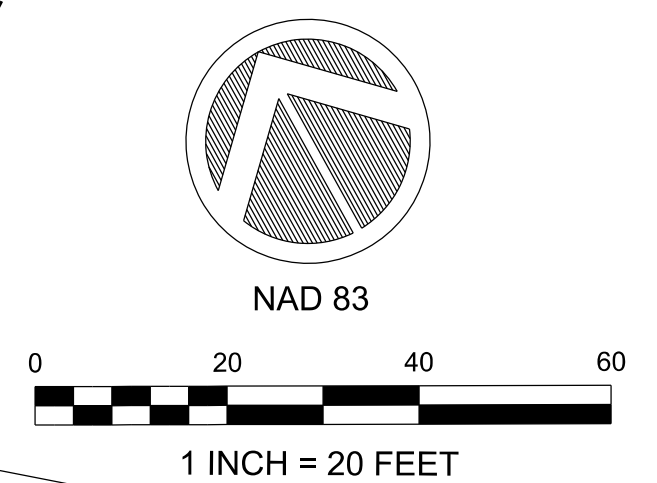
CIVIL SITE PLAN - PHASE 'A'

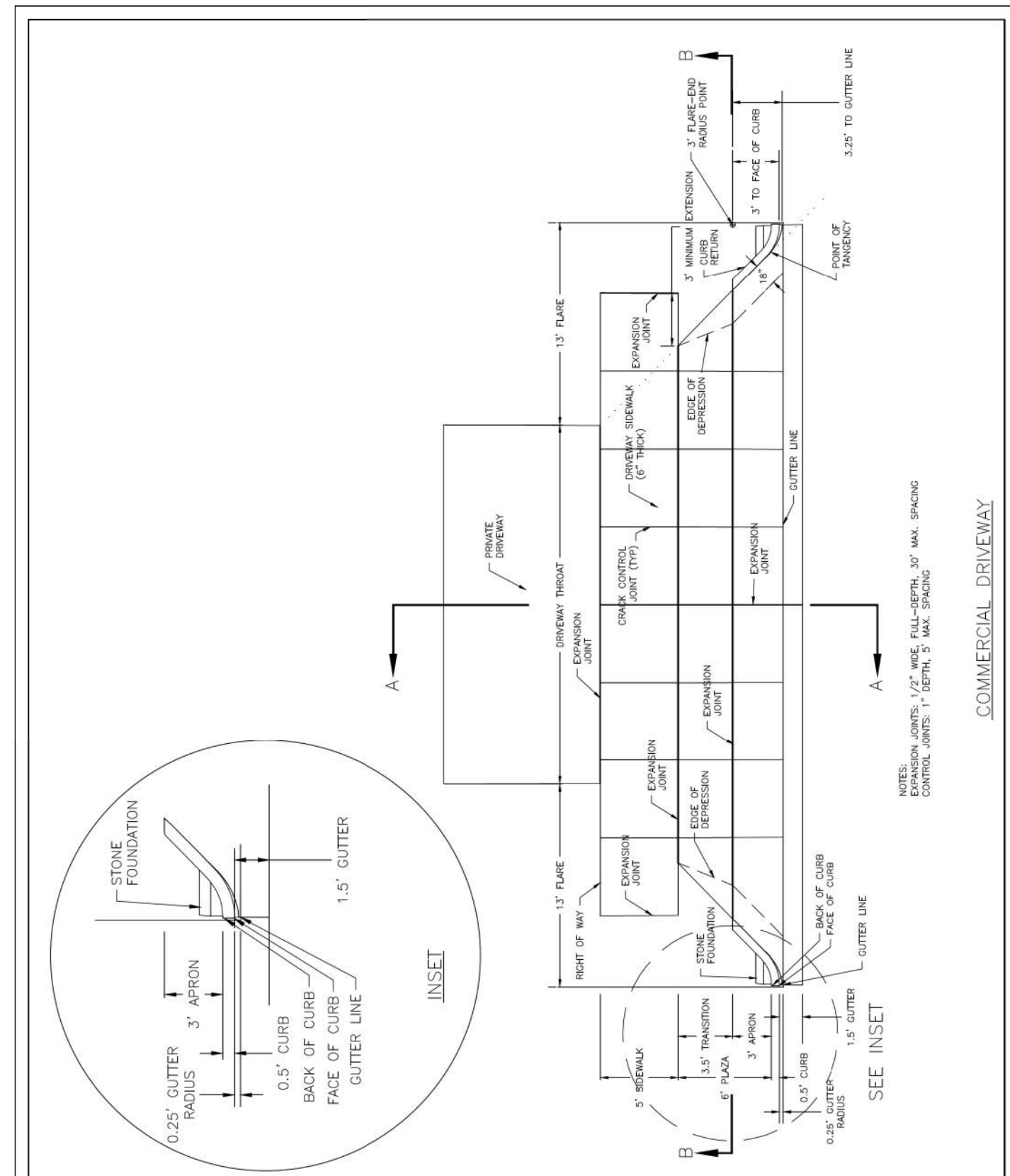
PLATE REFERENCE NUMBER
C-103
SHEET

INITIAL CONSTRUCTION TO BE COMPLETION DATE: 12/29/17

- NOTES:
- THE INITIAL CONSTRUCTION AREA IS TO BE COMPLETED BEFORE OTHER CONSTRUCTION ON SITE FOR THE ADMIN ANNEX BUILDING TO PROVIDE UNDISTURBED BUS ACCESS TO THE ISAAC BEAR EARLY COLLEGE.
 - ALL ACCESS TO MODULAR BUILDING TO BE RESTRICTED TO THE SIDE ENTRANCE IN SOUTHWEST CORNER OF BUILDING. NO TRAFFIC ALLOWED WITHIN INITIAL CONSTRUCTION WORK AREA EXCEPT AUTHORIZED PERSONNEL.
 - ALL WORK ITEMS WITHIN THE INITIAL CONSTRUCTION AREA ARE TO BE 100% COMPLETED BY COMPLETION DATE SHOWN ABOVE. THE ACCESS DRIVEWAY TO BE TURNED OVER TO OWNER FOR IMMEDIATE USE.
 - PROVIDE TEMPORARY ACCESS TO MODULAR BUILDING FROM SOUTHWEST CORNER OF ISAAC BEAR'S PARKING LOT. CONSTRUCTION WOOD SIDEWALK FROM PARKING LOT TO A TEMPORARY RAMP CONSTRUCTED BY OTHERS TO ACCESS THE MODULAR BUILDING REAR ENTRANCE.
- SEE CIVIL SITE PLAN FOR WHOLE WORK AREA FOR THE ADMINISTRATIVE ANNEX BUILDING, REFERENCE PLATE NUMBER C-101.
- FOR CIVIL SITE DETAILS SEE REFERENCE PLATE NUMBERS C-104 AND C-105.

Approved Construction Plan	
Name	Date
Planning	
Traffic	
Fire	



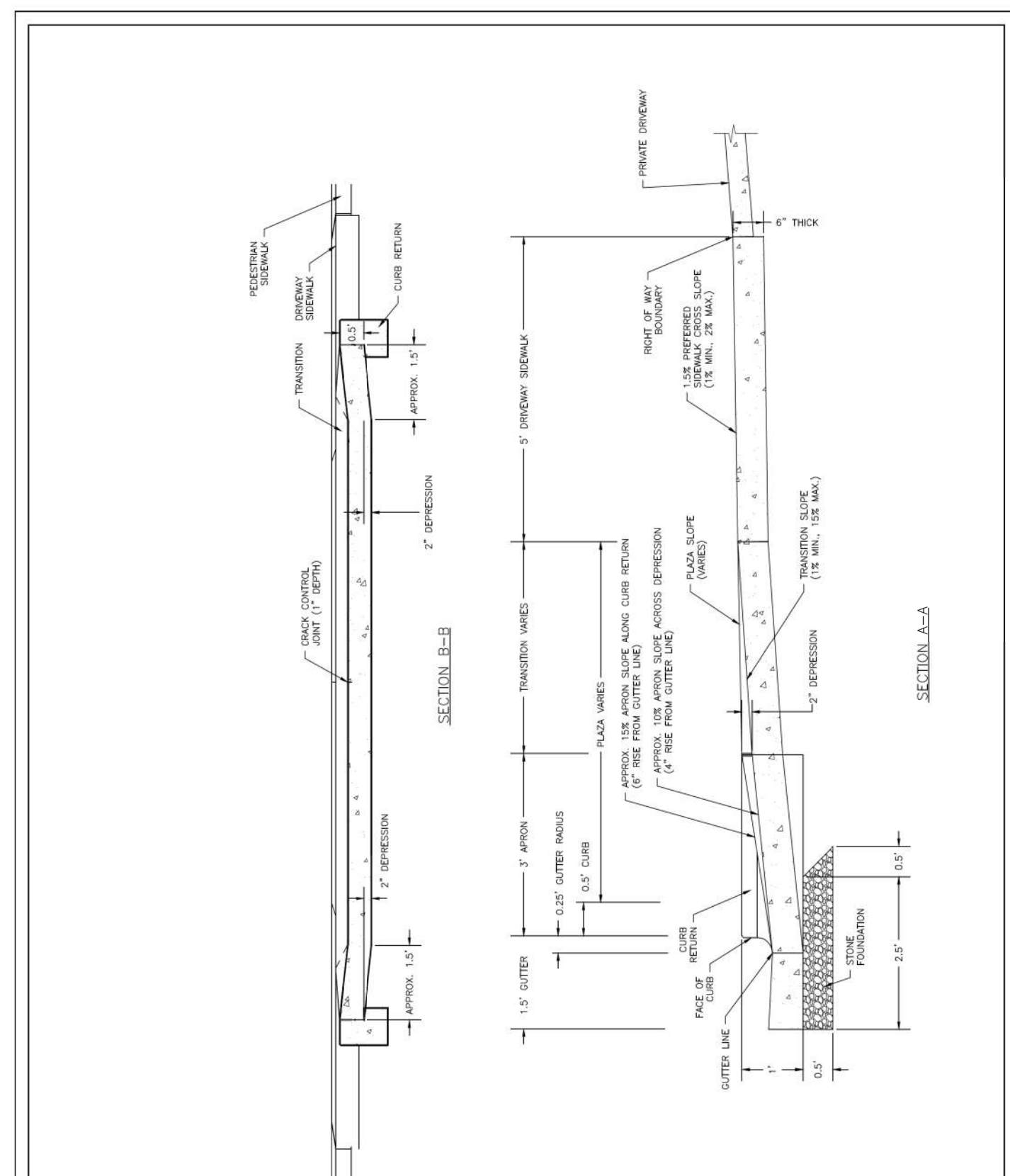


DATE: FEB. 14, 2017
 DRAWN BY: JSR
 CHECKED BY: D.E.C., P.E.
 SCALE: NOT TO SCALE

STANDARD DETAIL
COMMERCIAL DRIVEWAY PLAN (VERTICAL CURB)
 1 of 2

CITY OF WILMINGTON
 NORTH CAROLINA
 CITY OF WILMINGTON ENGINEERING
 P.O. BOX 1810
 WILMINGTON, N.C. 28402
 (910) 341-7807

SD 3-03.3

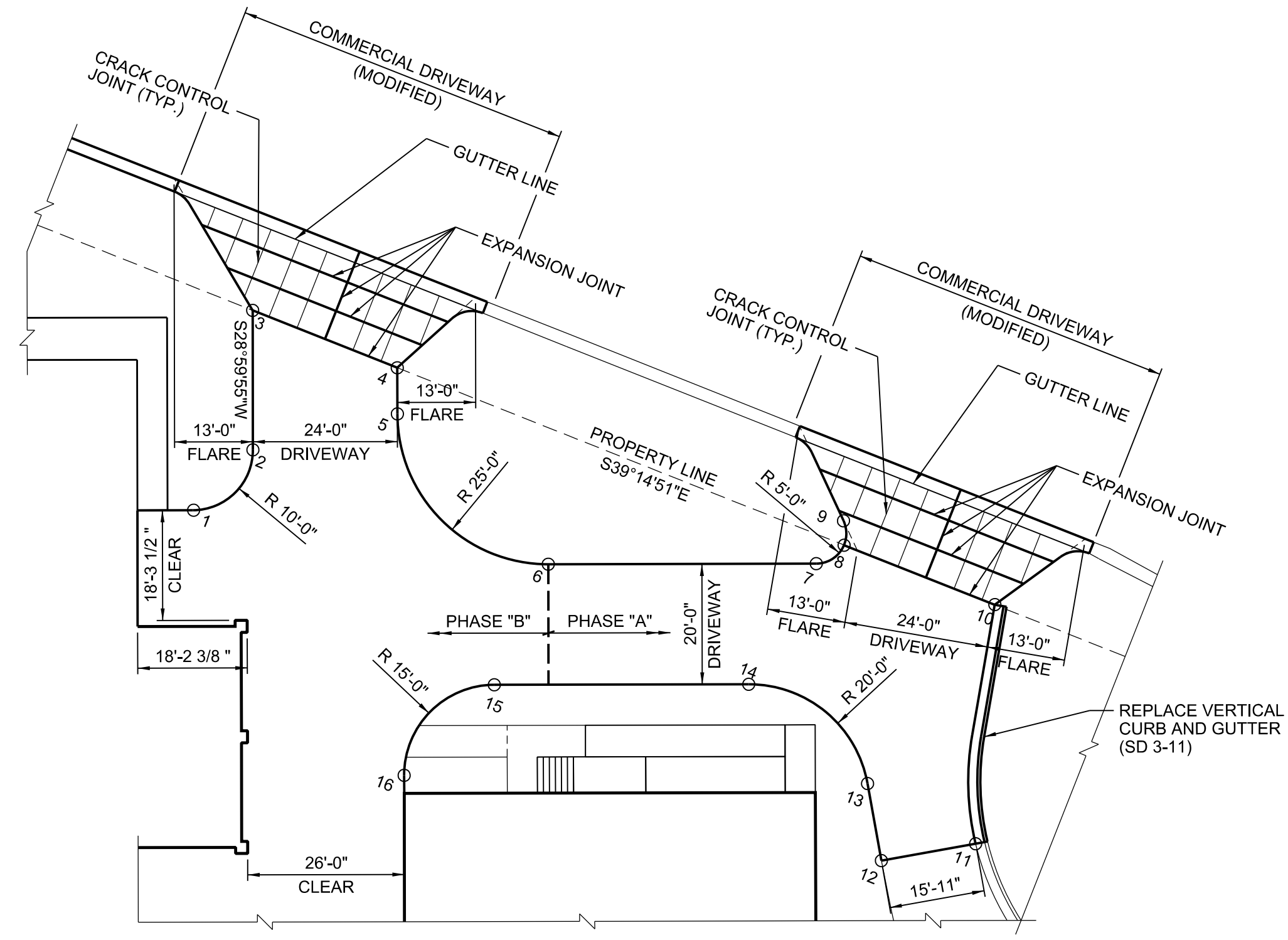


DATE: FEB. 14, 2017
 DRAWN BY: JSR
 CHECKED BY: D.E.C., P.E.
 SCALE: NOT TO SCALE

STANDARD DETAIL
COMMERCIAL DRIVEWAY SECTIONS (VERTICAL CURB)
 2 of 2

CITY OF WILMINGTON
 NORTH CAROLINA
 CITY OF WILMINGTON ENGINEERING
 P.O. BOX 1810
 WILMINGTON, N.C. 28402
 (910) 341-7807

SD 3-03.4



COMMERCIAL DRIVEWAY PLAN (MODIFIED)

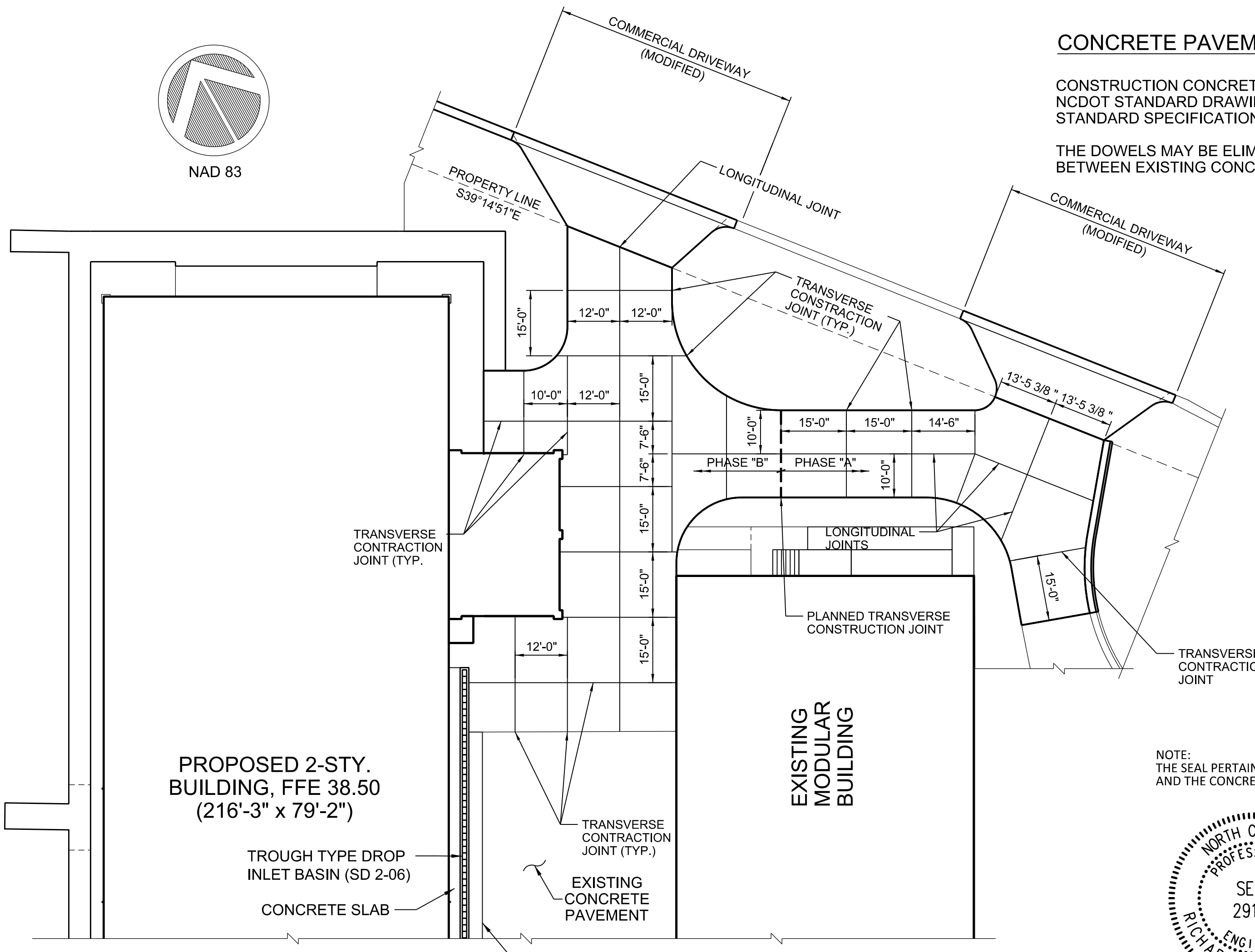
PT	POINT COORDINATES		
1	N 173422.27	E 2338052.51	Z 38.50
2	N 173426.22	E 2338066.00	Z 38.90
3	N 173446.47	E 2338077.22	Z 39.80
4	N 173426.47	E 2338093.56	Z 39.95
5	N 173419.76	E 2338089.85	Z 39.53
6	N 173385.78	E 2338099.60	Z 38.70
7	N 173364.20	E 2338138.52	Z 39.96
8	N 173364.64	E 2338144.02	Z 40.15
9	N 173368.21	E 2338145.93	Z 40.11
10	N 173343.84	E 2338161.11	Z 40.35
11	N 173310.71	E 2338139.01	MATCH EX.
12	N 173315.88	E 2338123.97	MATCH EX.
13	N 173328.17	E 2338128.19	Z 39.08
14	N 173352.17	E 2338118.98	Z 39.16
15	N 173372.65	E 2338082.03	Z 38.10
16	N 173366.80	E 2338061.64	Z 38.10



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.



CONCRETE PAVEMENT JOINT LAYOUT

Approved Construction Plan

Name	Date
Planning	
Traffic	
Fire	



NOTE: THE SEAL PERTAINS TO THE COMMERCIAL DRIVEWAY PLAN (MODIFIED) AND THE CONCRETE JOINT LAYOUT ONLY.



NO.	DATE	DESCRIPTION
1	05/15/2018	ISSUED FOR CONSTRUCTION
2	02/15/18	CHANGED ELEVATION OF POINT 16
3	05/15/18	REVISED THE COMMERCIAL DRIVEWAY PLAN (MODIFIED) AND ROTATED PLAN TO MATCH SITE PLAN LAYOUT

DESIGNED BY: RC
 DRAWN BY: JSR
 CHECKED BY: D.E.C., P.E.
 SCALE: NOT TO SCALE

DATE: 05/15/2018
 SCO ID #: 17-18303-01A

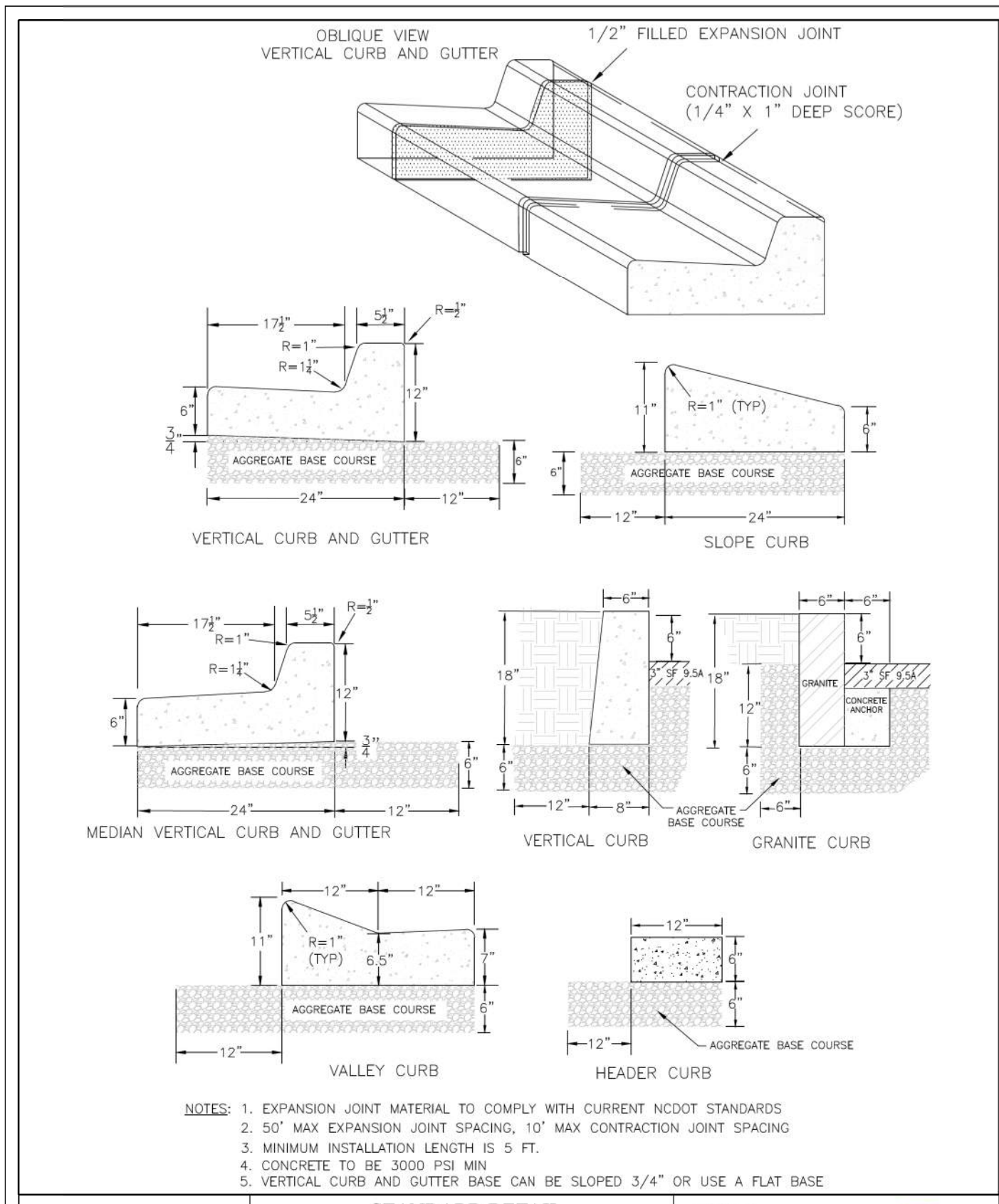
FILE NAME: CIVIL_C104_Site Plan Details_20180430.dgn
 SIZE: 100 K
 ARCH D: AS SHOWN
 PLOT DATE: 05/15/18

200 N. W. B. BLVD.
 100 AVENUE ROAD, SUITE 215
 GARNER, NC 27529
 (919) 584-9710

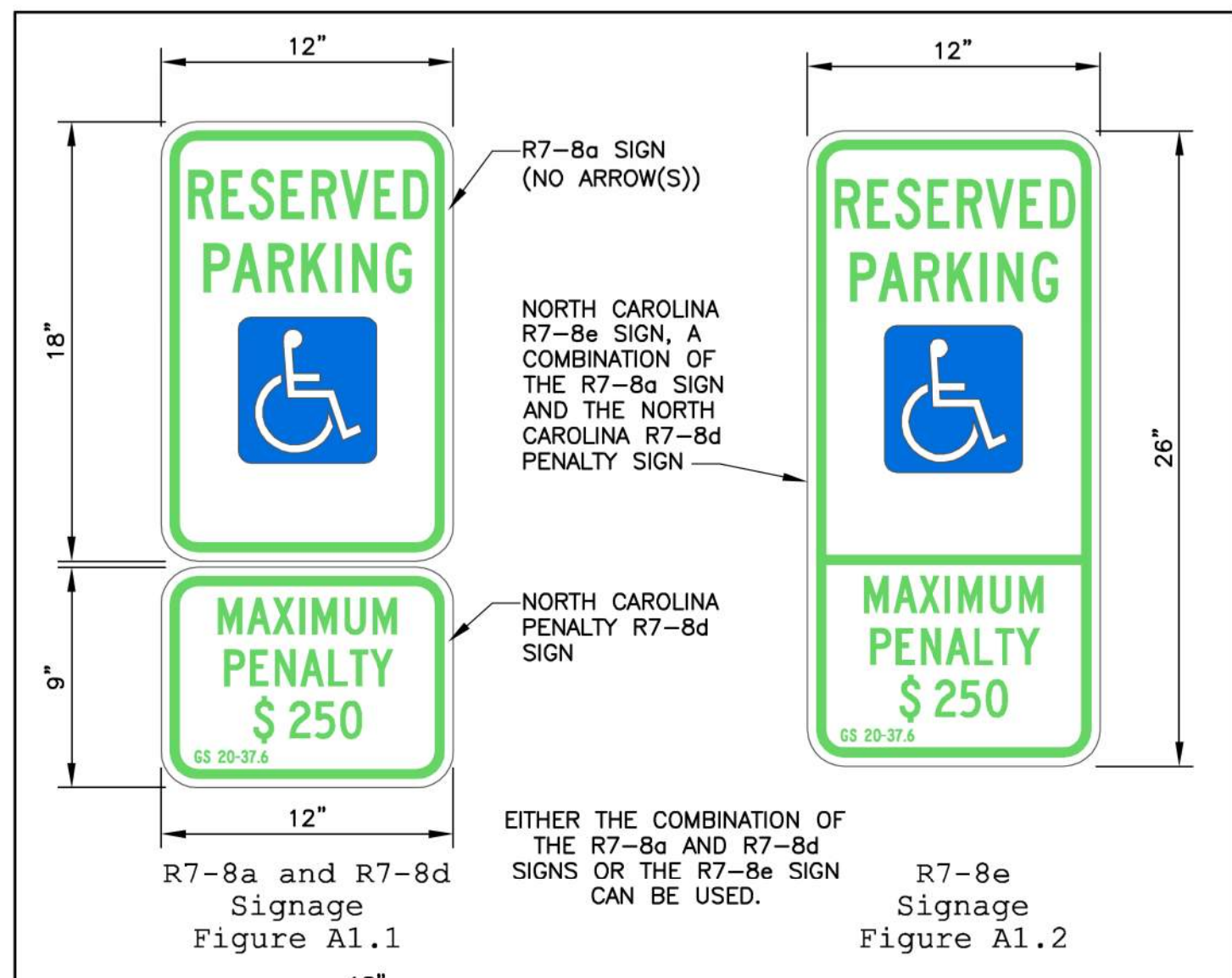
ADMINISTRATIVE ANEXY BUILDING
 UNIVERSITY OF NORTH CAROLINA - WILMINGTON
 622 MACMILLAN AVENUE, WILMINGTON, NC

CIVIL SITE DETAILS (SHEET 1 OF 2)

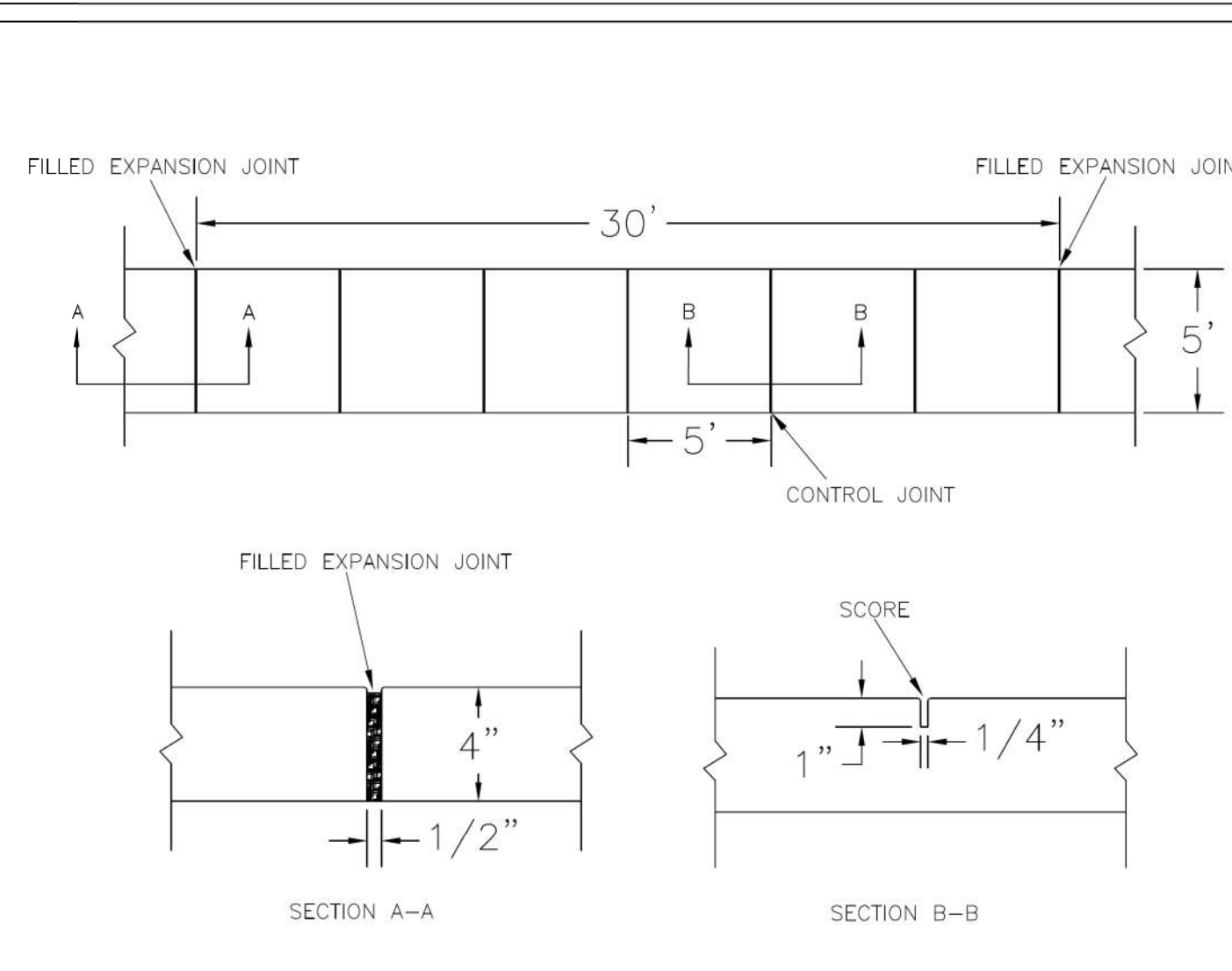
PLATE REFERENCE NUMBER
C-104
 SHEET



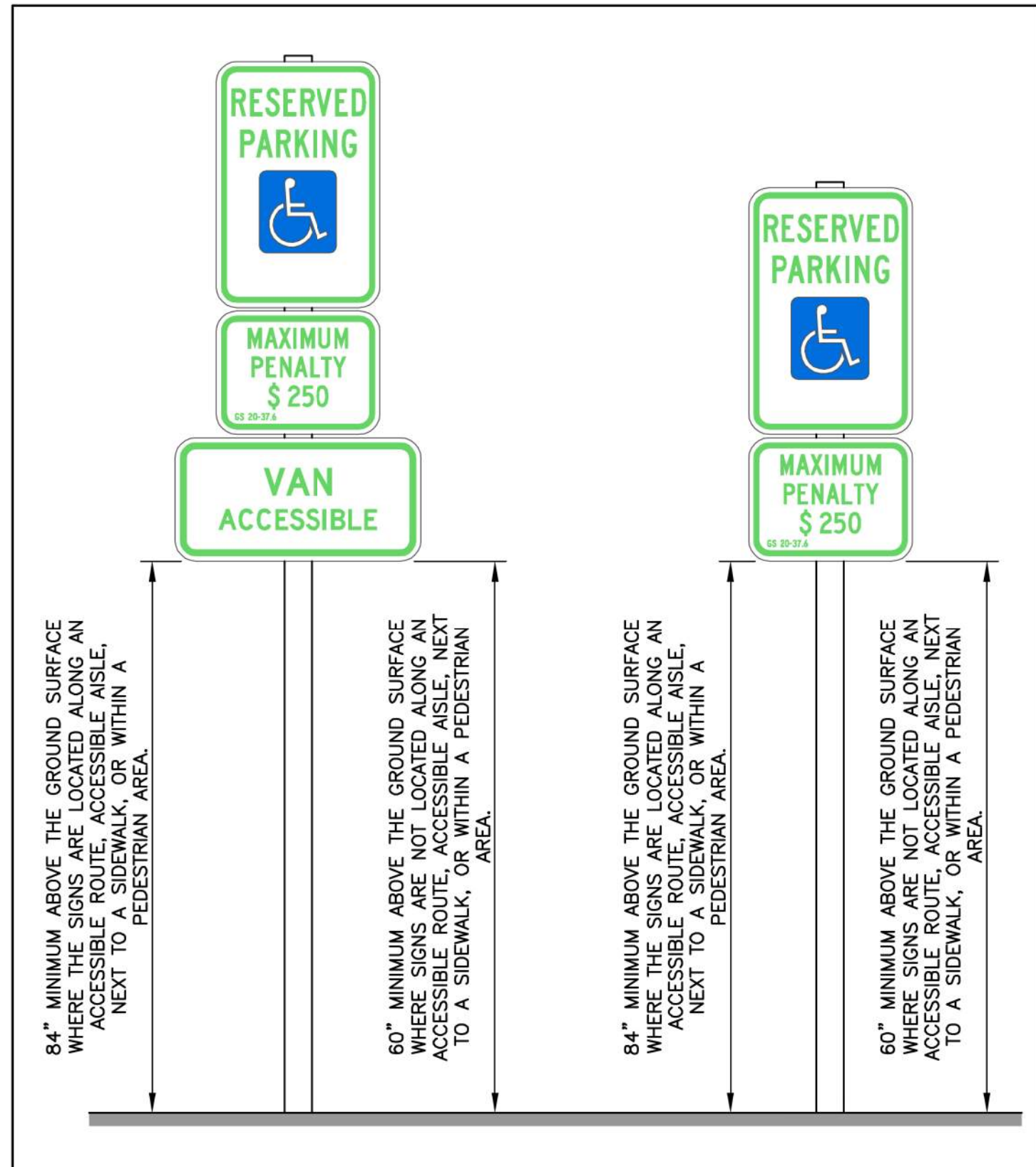
DATE: AUGUST, 2011	<p>CITY OF WILMINGTON NORTH CAROLINA CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, N.C. 28402 (910) 341-7807</p>	SD 3-11
DRAWN: PB/JSR		STANDARD DETAIL
CHECKED: DEC		CURBING
SCALE: NOT TO SCALE		



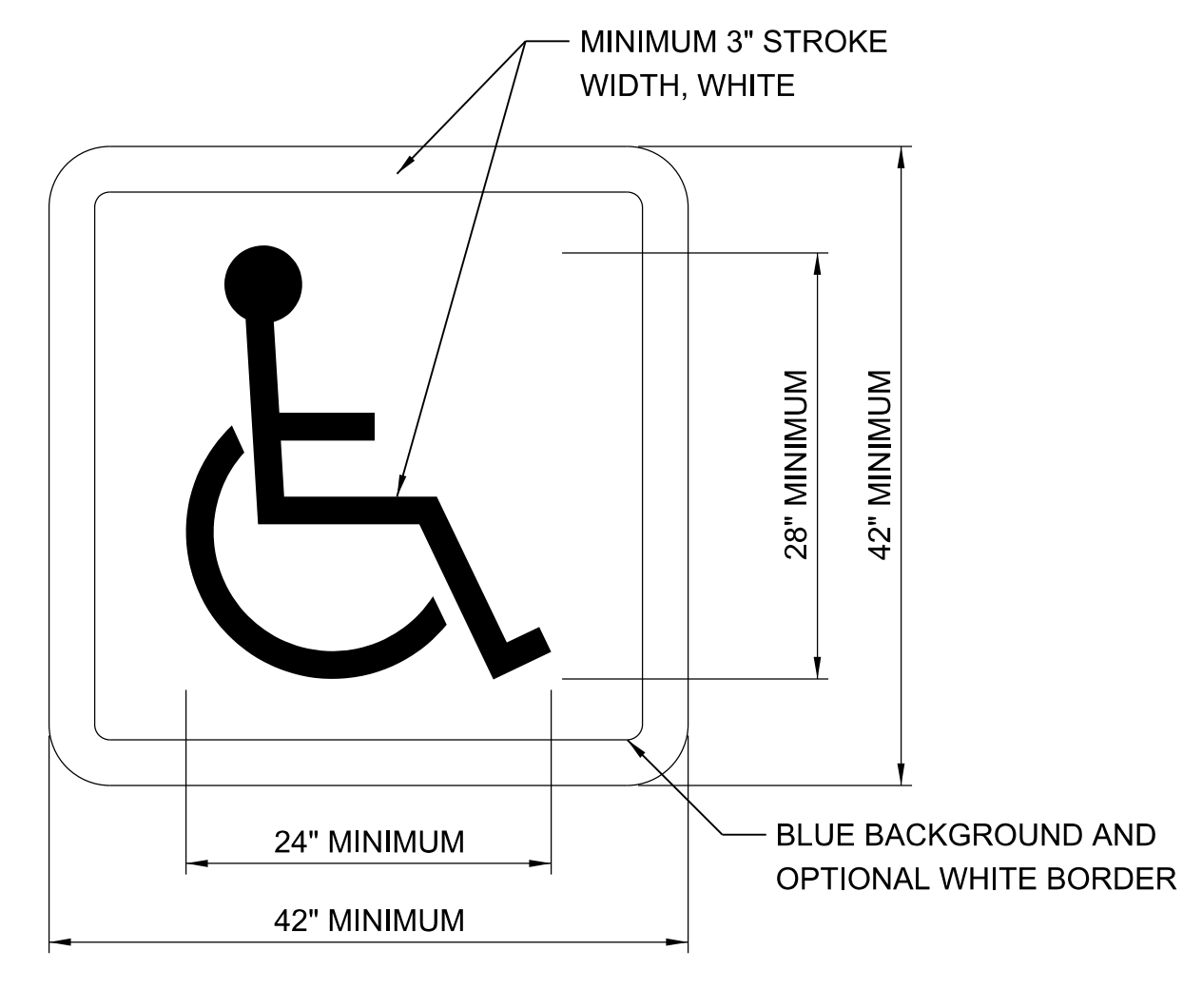
DATE: NOVEMBER 8, 2016	<p>CITY OF WILMINGTON NORTH CAROLINA CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, N.C. 28402 (910) 341-7807</p>	SD 3-11
DRAWN BY: DALE THOMPSON		STANDARD DETAIL
CHECKED BY: RANDALL GLAZIER		CURBING
SCALE: NOT TO SCALE		



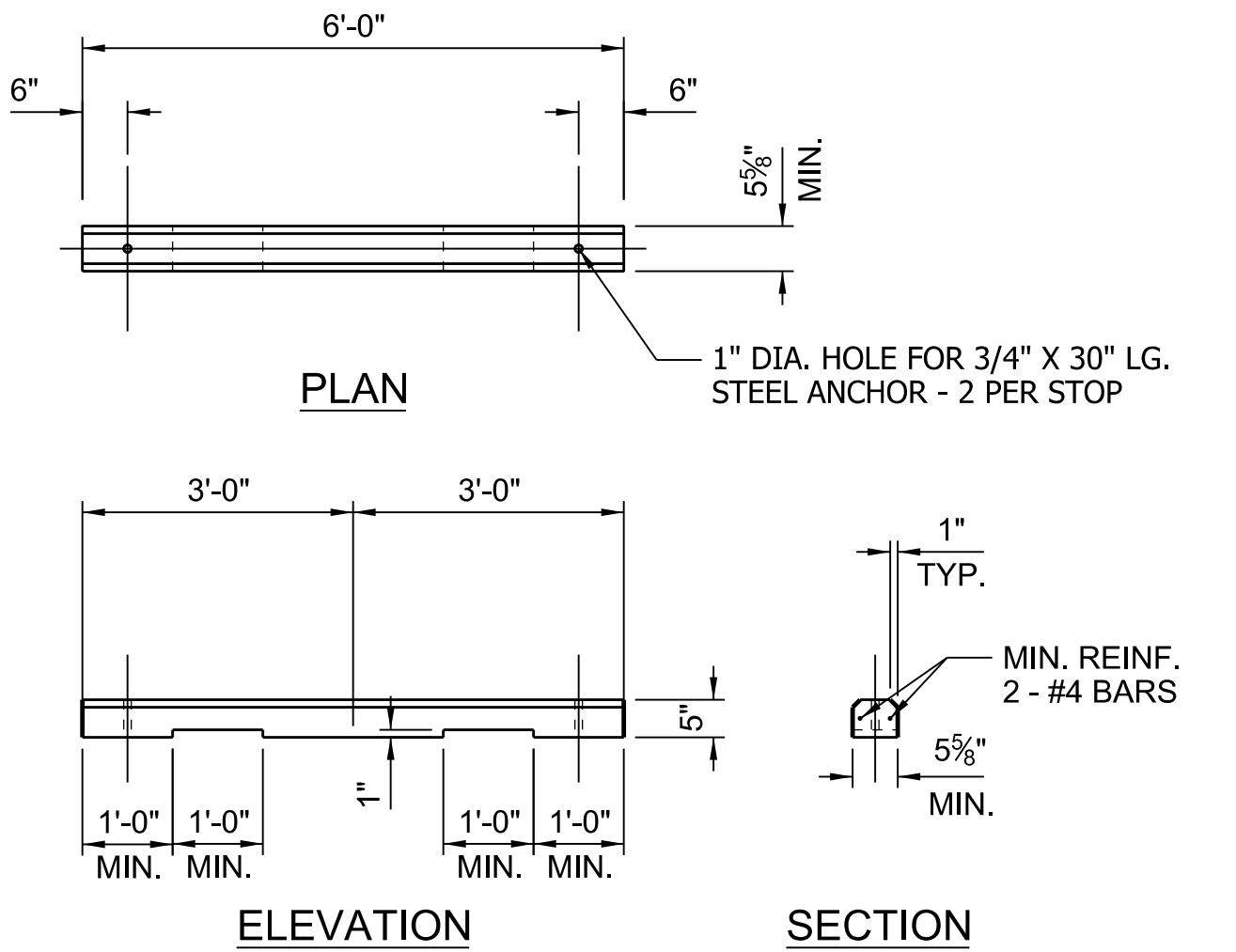
DATE: OCTOBER, 2010	<p>CITY OF WILMINGTON NORTH CAROLINA CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, N.C. 28402 (910) 341-7807</p>	SD 3-10
DRAWN: PB/JSR		STANDARD DETAIL
CHECKED: DEC		SIDEWALK
SCALE: NOT TO SCALE		



DATE: NOVEMBER 8, 2016	<p>CITY OF WILMINGTON NORTH CAROLINA CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, N.C. 28402 (910) 341-7807</p>	SD 3-11
DRAWN BY: DALE THOMPSON		STANDARD DETAIL
CHECKED BY: RANDALL GLAZIER		CURBING
SCALE: NOT TO SCALE		



INTERNATIONAL SYMBOL OF ACCESSIBILITY
PARKING SPACE MARKING

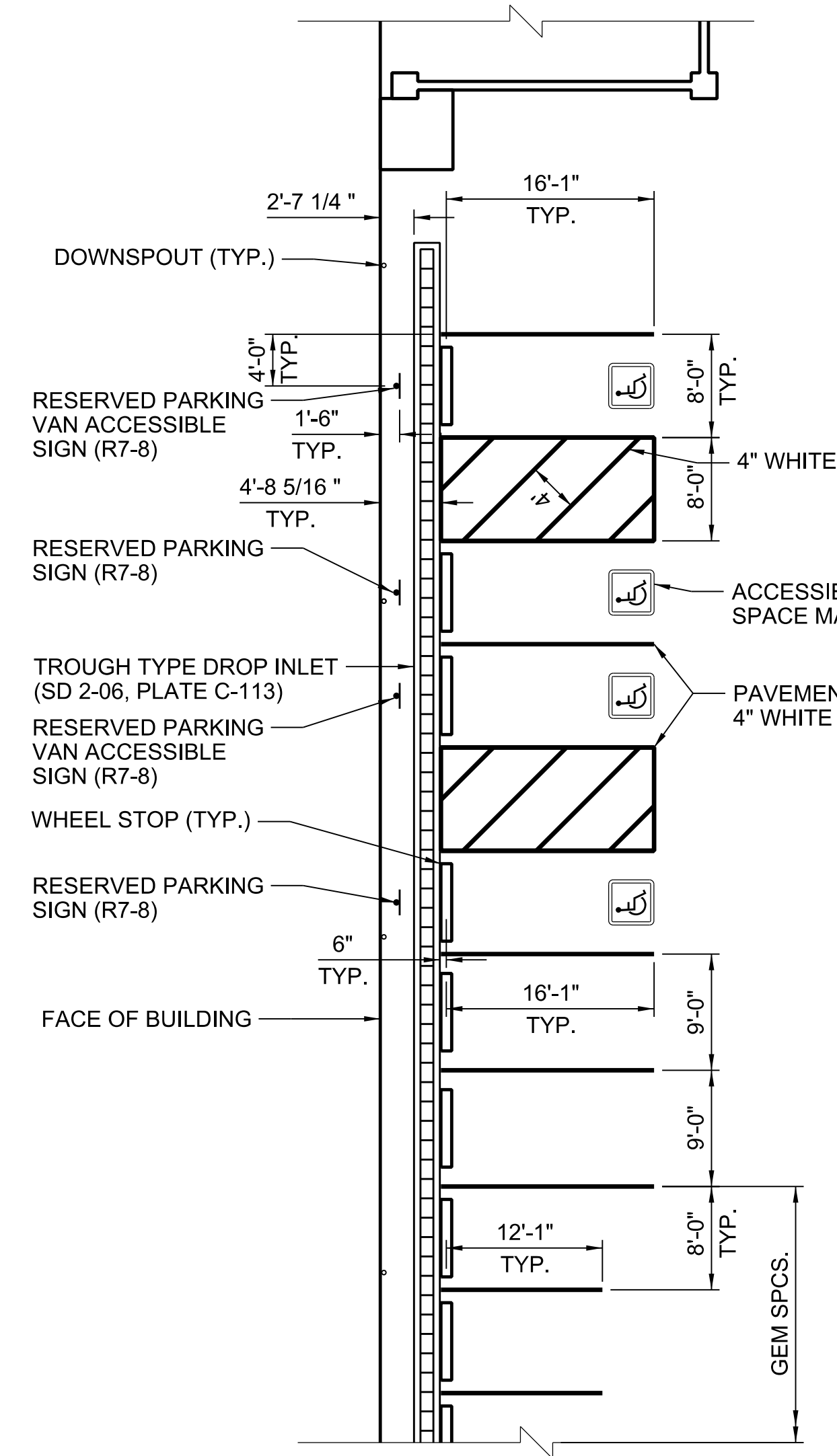


6' CONCRETE WHEEL STOP

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. (60 IN.) ABOVE PARKING SURFACE AND A MINIMUM OF 2.5 FT. FROM WHEEL STOP, OUTSIDE THE LIMITS VEHICLE OVERHANG.



PARKING SPACES DETAIL

Approved Construction Plan

Name: _____ Date: _____

Planning: _____

Traffic: _____

Fire: _____

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.

ALL PAVEMENT MARKINGS IN PUBLIC RIGHT OF WAY AND DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET CITY OF WILMINGTON AND/OR NCDOT STANDARDS.



RC	05/15/18	RC
RC	02/15/18	RC
RC	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

DESIGNED BY: RC	DATE: 05/15/2018	SCO ID #:	17-18303-01A
CHKD BY: RC		FILE NAME:	CIV_C105_Site Plan Details_20180430.dgn
DATE: 05/15/2018		SIZE:	100 AVERBROOK ROAD, SUITE 215
SCALE: AS SHOWN		AS SHOWN	GARDNER, NC 27529
			(919) 384-9710

ADMINISTRATIVE ANEXY 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	REPLACED BORDER
RC	07/25/18	RELOCATED TROUGH TYPE DROPP INLET
RC	11/17/17	ISSUED FOR CONSTRUCTION
SYMBOL		

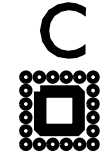


DESIGNED BY:	RC	DATE:	05/15/2018
CHKD BY:	RC	SCO ID #:	17-18303-01A
DATE:	05/15/2018	ISSUED BY:	ZAPATA, J.B. P.L.L.C.
FILE NAME:	CIV. C-106 - Erosion Control Plan_20180515.dgn	PLANT SCALE:	AS SHOWN
ARCH D:	AS SHOWN	PLOT DATE:	05/15/18

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

EROSION CONTROL PLAN

PLATE REFERENCE NUMBER
C-106
SHEET

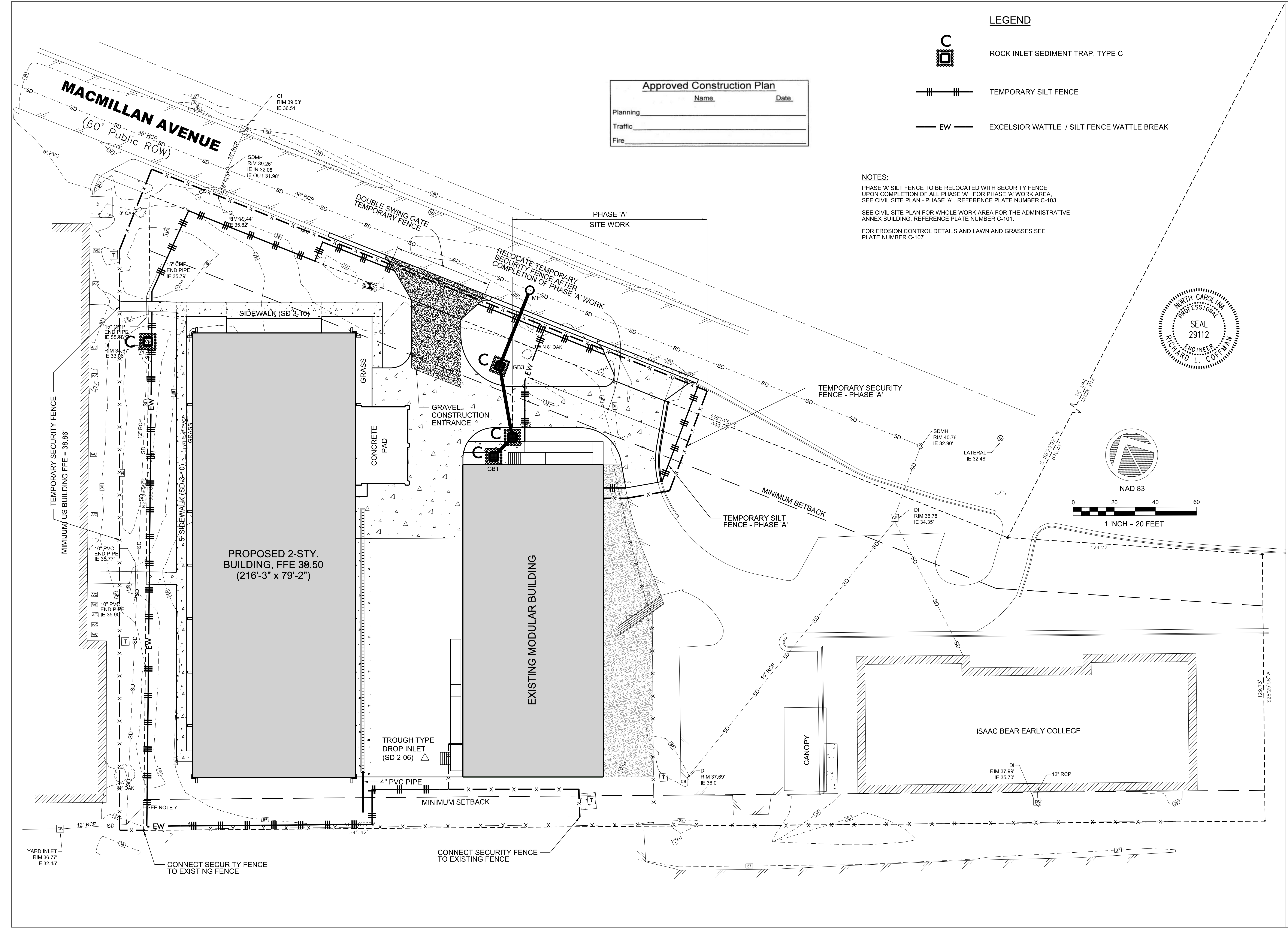
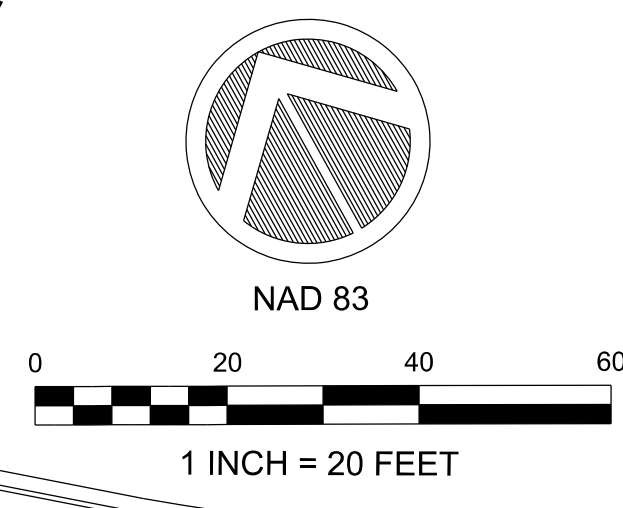
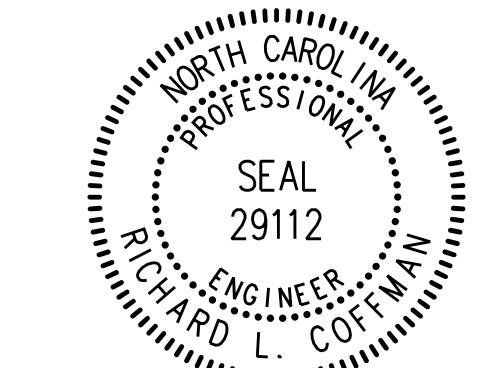
LEGEND

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

Approved Construction Plan

Name _____	Date _____
Planning _____	
Traffic _____	
Fire _____	

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.



PROPOSED 2-STY. BUILDING, FFE 39.50 (216'-3" x 79'-2")

EXISTING MODULAR BUILDING

ISAAC BEAR EARLY COLLEGE

CANOPY

TROUGH TYPE DROPP INLET (SD 2-06)

CONNECT SECURITY FENCE TO EXISTING FENCE

CONNECT SECURITY FENCE TO EXISTING FENCE

YARD INLET RIM 36.77' IE 32.45'

SEE NOTE 7

MINIMUM SETBACK

TEMPORARY SILT FENCE - PHASE 'A'

MINIMUM SETBACK

TEMPORARY SECURITY FENCE - PHASE 'A'

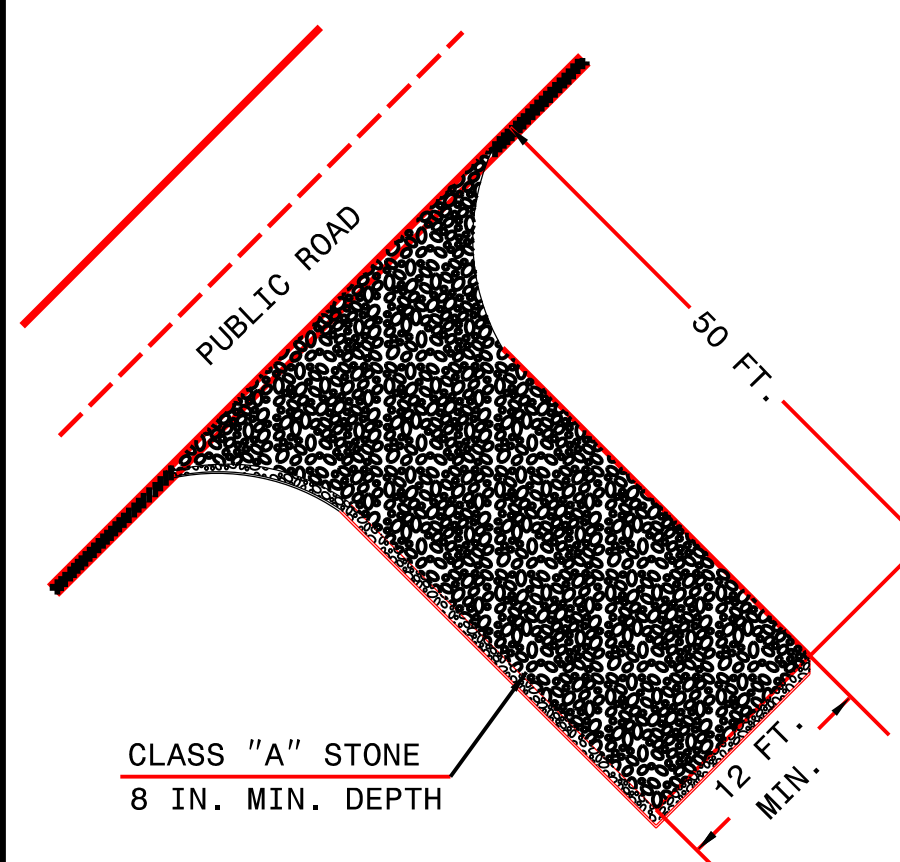
GRAVEL CONSTRUCTION ENTRANCE

SIDEWALK (SD 3-10)

DOUBLE SWING GATE TEMPORARY FENCE

MACMILLAN AVENUE (60' Public ROW)

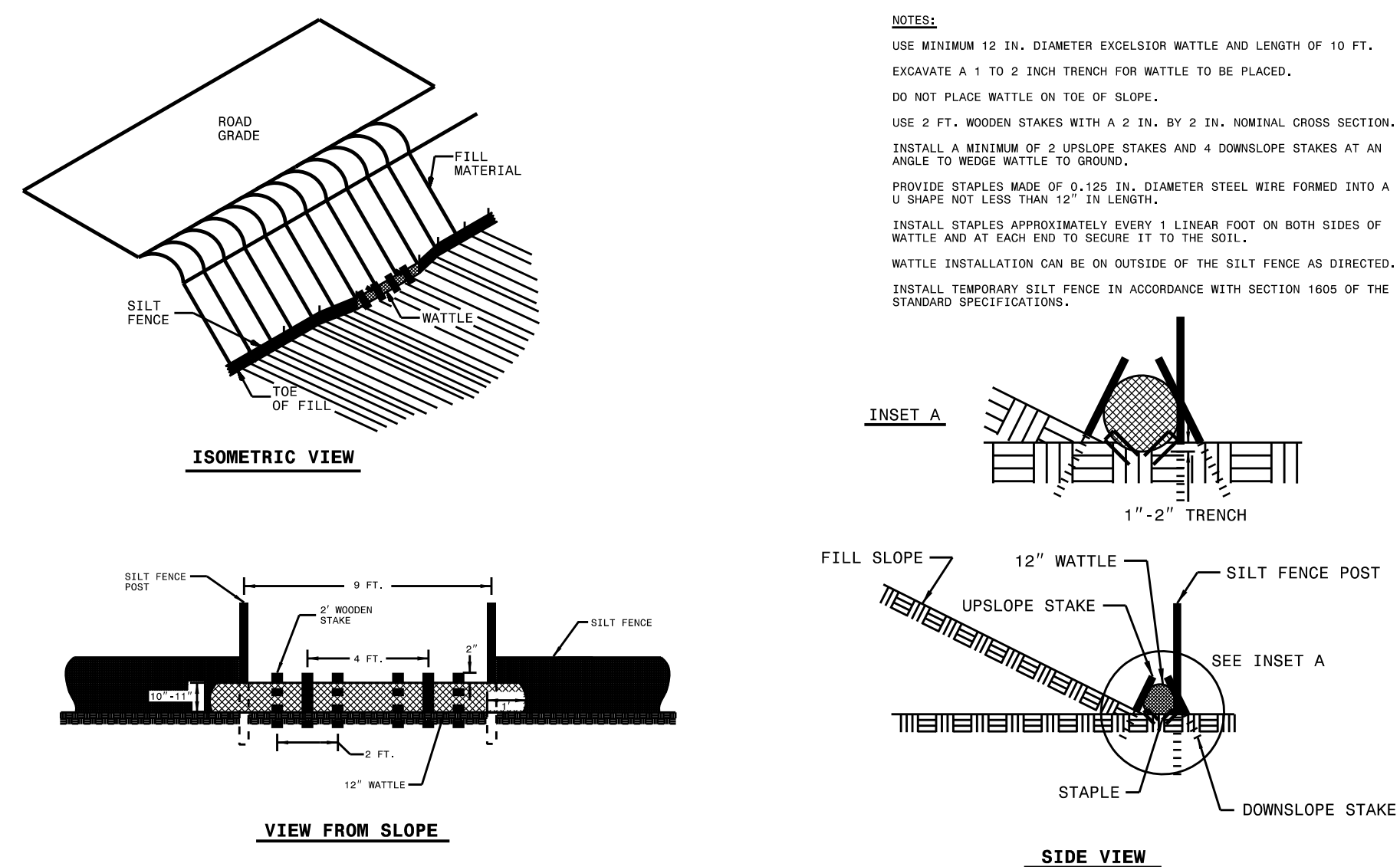
GRAVEL CONSTRUCTION ENTRANCE



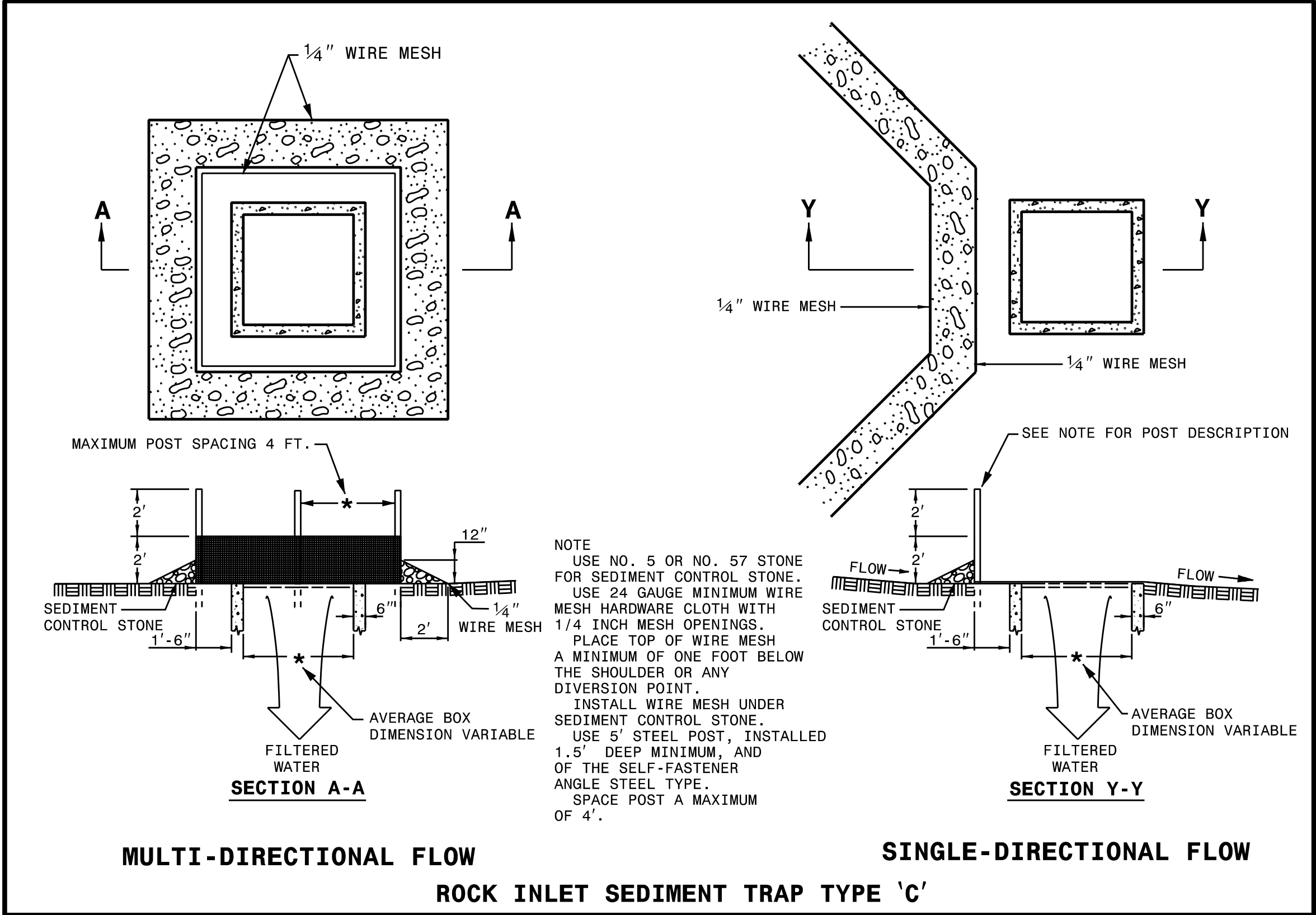
- NOTES:**
1. PROVIDE TURNING RADIUS SUFFICIENT TO ACCOMMODATE LARGE TRUCKS.
 2. LOCATE ENTRANCE(S) TO PROVIDE FOR UTILIZATION BY ALL CONSTRUCTION VEHICLES.
 3. MUST BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR DIRECT FLOW OF MUD ONTO STREETS. PERIODIC TOPDRESSING WITH STONE WILL BE NECESSARY.
 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 EXCELSDOR 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.



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

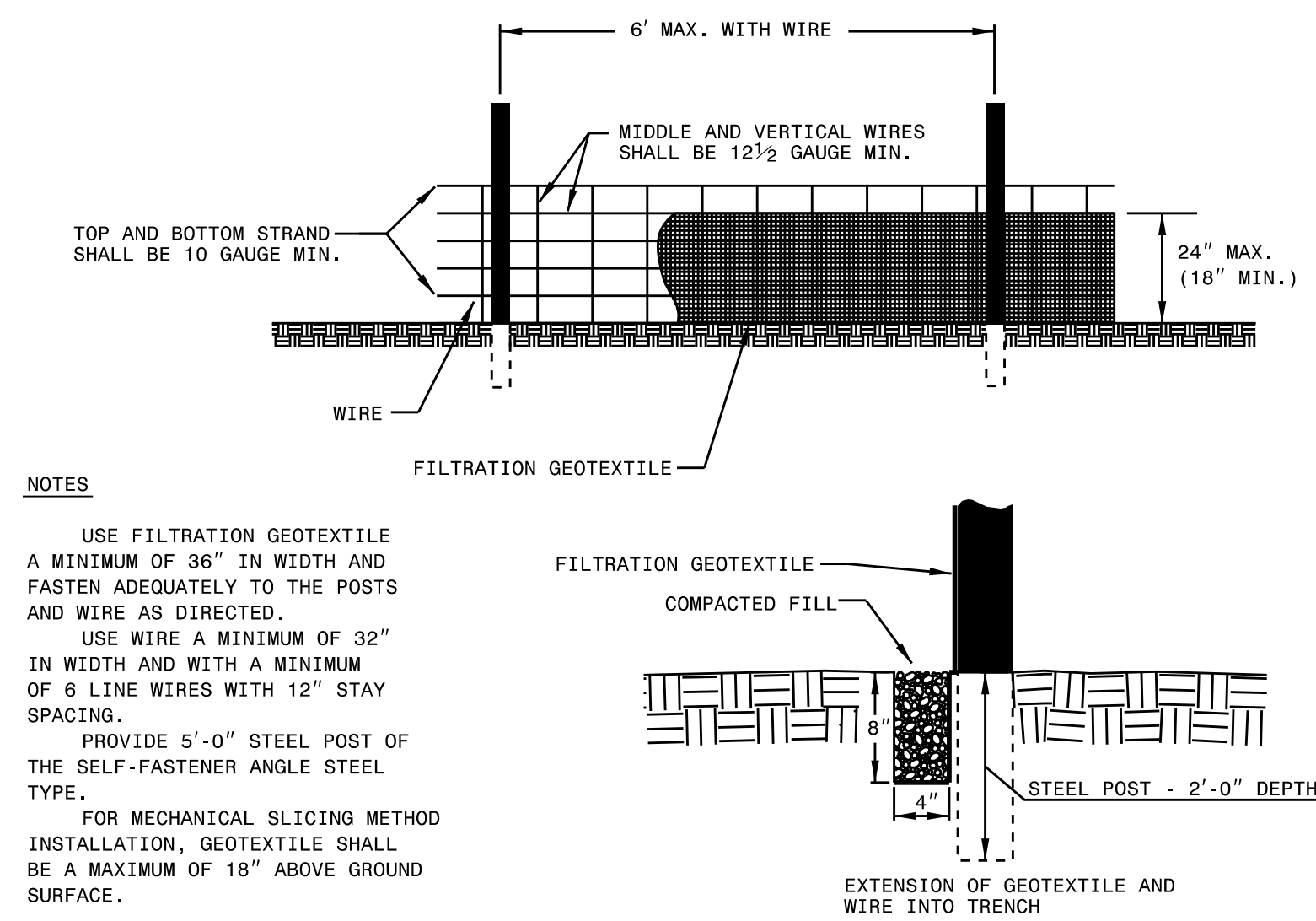
SITE DESCRIPTION	STABILIZATION TIME	TIMEFRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	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 "TIFWAY" OR CENTPEDE) USED TO ESTABLISHING LAWNS IN GRASS AREAS.

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.

UNCW

DESIGNED BY: [Blank] DATE: 05/15/2018
 RC [Blank] SCO ID #: 17-18303-01A
 DOWN BY: [Blank] FILE NAME: CIVIL C107 Erosion Control Details_20180515.dgn
 CREDITED TO: ZAPATA LAB, P.L.L.C. AS SHOWN
 PLOT DATE: 05/15/18
 ARCH D: [Blank]

DESIGNED BY: [Blank] DATE: 05/15/2018
 RC [Blank] SCO ID #: 17-18303-01A
 DOWN BY: [Blank] FILE NAME: CIVIL C107 Erosion Control Details_20180515.dgn
 CREDITED TO: ZAPATA LAB, P.L.L.C. AS SHOWN
 PLOT DATE: 05/15/18
 ARCH D: [Blank]

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

EROSION CONTROL DETAILS

PLATE REFERENCE NUMBER
C-107
 SHEET

Approved Construction Plan

Name: _____ Date: _____

Planning: _____

Traffic: _____

File: _____



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).

A UTILITY CUT PERMIT IS REQUIRED FOR EACH CUT OF A CITY STREET. CONTACT CITY OF WILMINGTON AT (910) 341-5888 FOR MORE DETAILS. CONTACT CITY OF WILMINGTON, TRAFFIC ENGINEERING AT (910) 341-7888 FORTY-EIGHT HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT OF WAY.

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND AN EXISTING RECORD DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING NC ONE CALL AND OBTAINING A UNCW DIG PERMIT ([HTTPS://UNCW.EDU/PHYSICALPLANT/DOCUMENTS/DIG%20FORM%203-14-17.PDF](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.

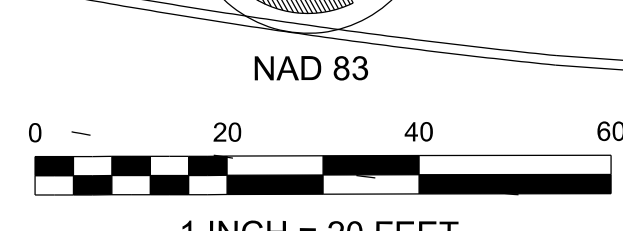
FOR UTILITY DETAILS SEE REFERENCE PLATES C-109 THRU C-113.

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.

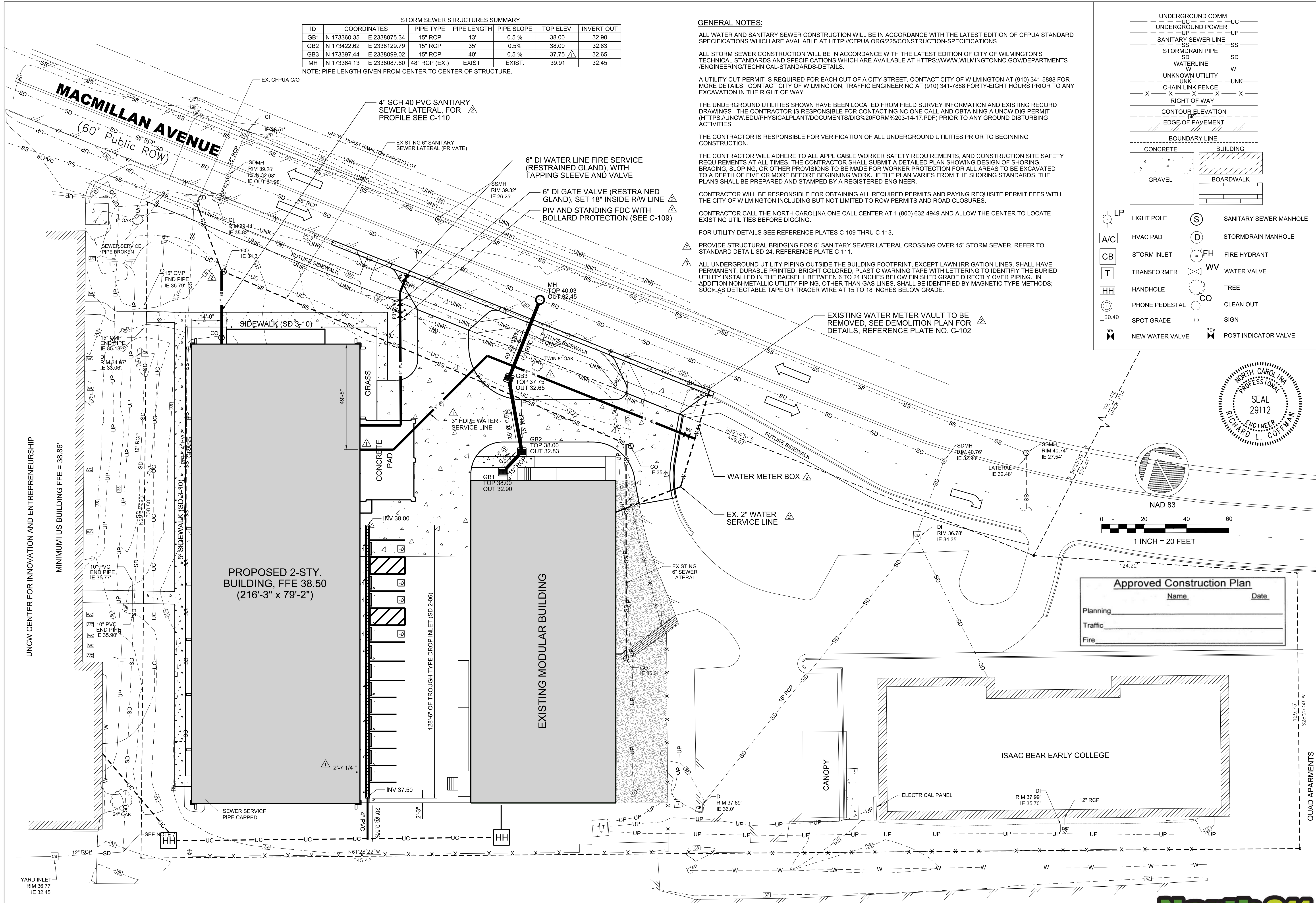
LEGEND:

- 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
- NW - NEW WATER VALVE
- UC - SANITARY SEWER MANHOLE
- SD - STORM DRAIN MANHOLE
- FH - FIRE HYDRANT
- WV - WATER VALVE
- CO - CLEAN OUT
- PTV - POST INDICATOR VALVE



Approved Construction Plan

Name	Date
Planning	
Traffic	
Fire	

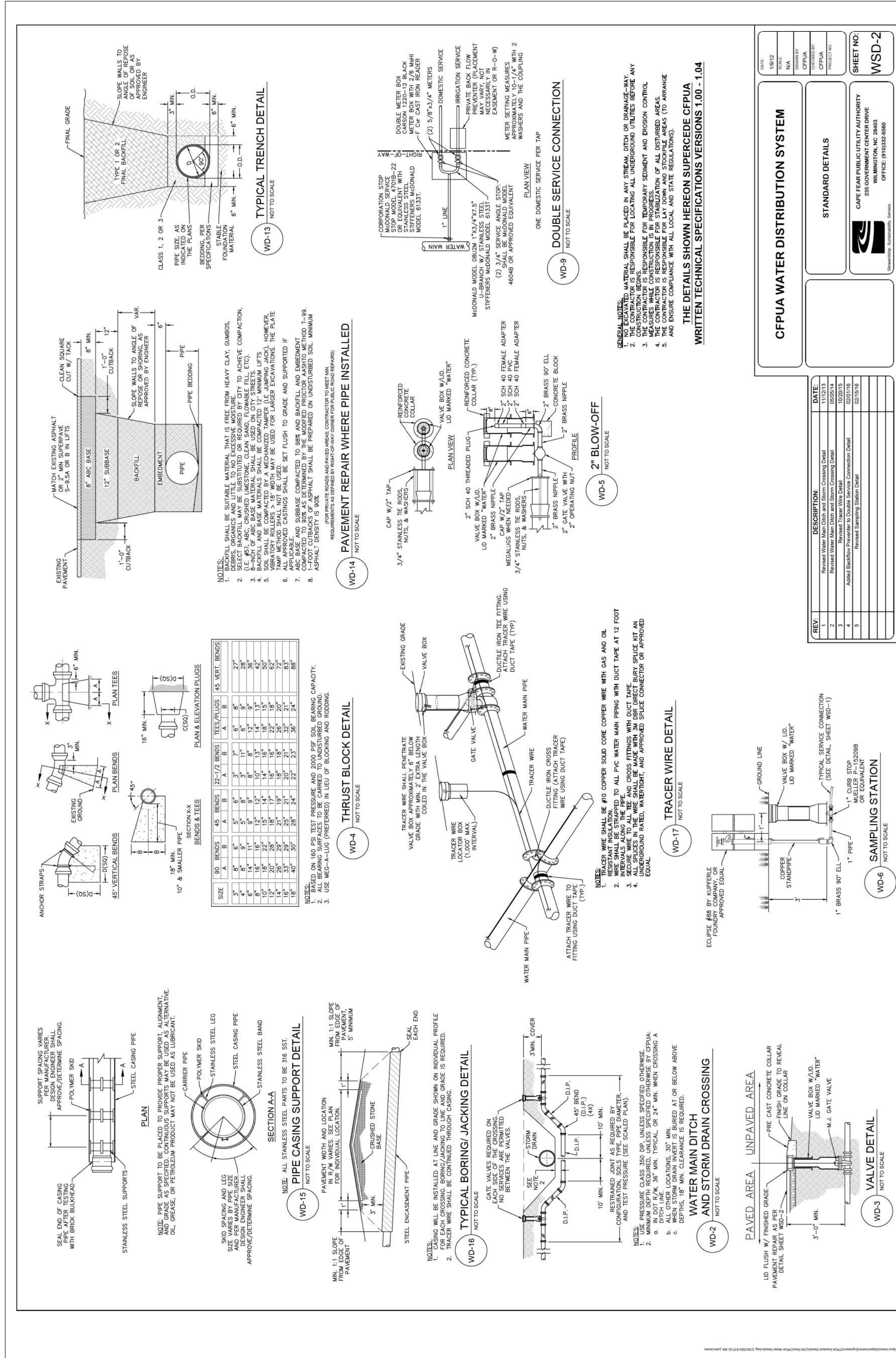


UNCW

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

DATE: 05/15/2018
SCO ID #: 17-18303-01A
DESIGNED BY: [Redacted]
DRAWN BY: [Redacted]
CHECKED BY: [Redacted]
APPROVED BY: [Redacted]

PLATE REFERENCE NUMBER: C-108
SHEET



CPFWA WATER DISTRIBUTION SYSTEM

STANDARD DETAILS

SHEET NO. WSD-2

DATE: 10/15/18

DESIGNED BY: [Signature]

CHECKED BY: [Signature]

DATE: 10/15/18

PROJECT: CPFWA WATER DISTRIBUTION SYSTEM

LOCATION: [Address]

SCALE: [Scale]

REVISIONS:

NO.	DESCRIPTION	DATE
1	ISSUED FOR CONSTRUCTION	10/15/18
2	REVISED STANDARD DETAIL SHEET WSD-1 AND ADDED POST INDICATOR VALVE (PIV) DETAIL	10/15/18
3	REVISED STANDARD DETAIL SHEET WSD-1 AND ADDED POST INDICATOR VALVE (PIV) DETAIL	10/15/18
4	REVISED STANDARD DETAIL SHEET WSD-1 AND ADDED POST INDICATOR VALVE (PIV) DETAIL	10/15/18
5	REVISED STANDARD DETAIL SHEET WSD-1 AND ADDED POST INDICATOR VALVE (PIV) DETAIL	10/15/18
6	REVISED STANDARD DETAIL SHEET WSD-1 AND ADDED POST INDICATOR VALVE (PIV) DETAIL	10/15/18

GENERAL NOTES:

- ALL MATERIALS SHALL BE PLACED IN PLACE WITHIN THE SPECIFIED TIME FRAME.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY EROSION 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 EXISTING AREAS.
- ALL WORK SHALL BE IN ACCORDANCE WITH ALL LOCAL AND STATE REGULATIONS.
- AND DO NOT COMPLY WITH ALL LOCAL AND STATE REGULATIONS.

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

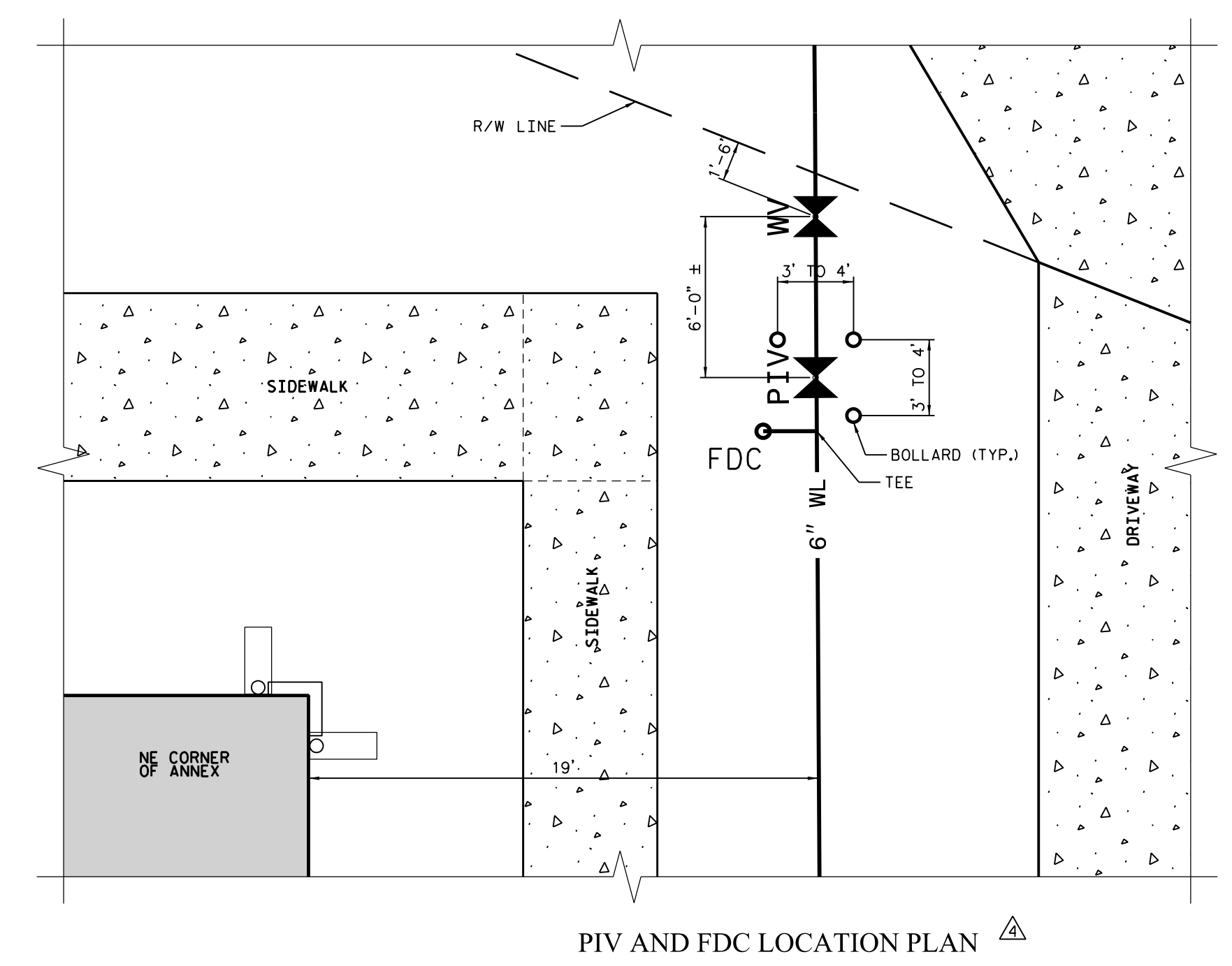
Approved Construction Plan

Name: _____ Date: _____

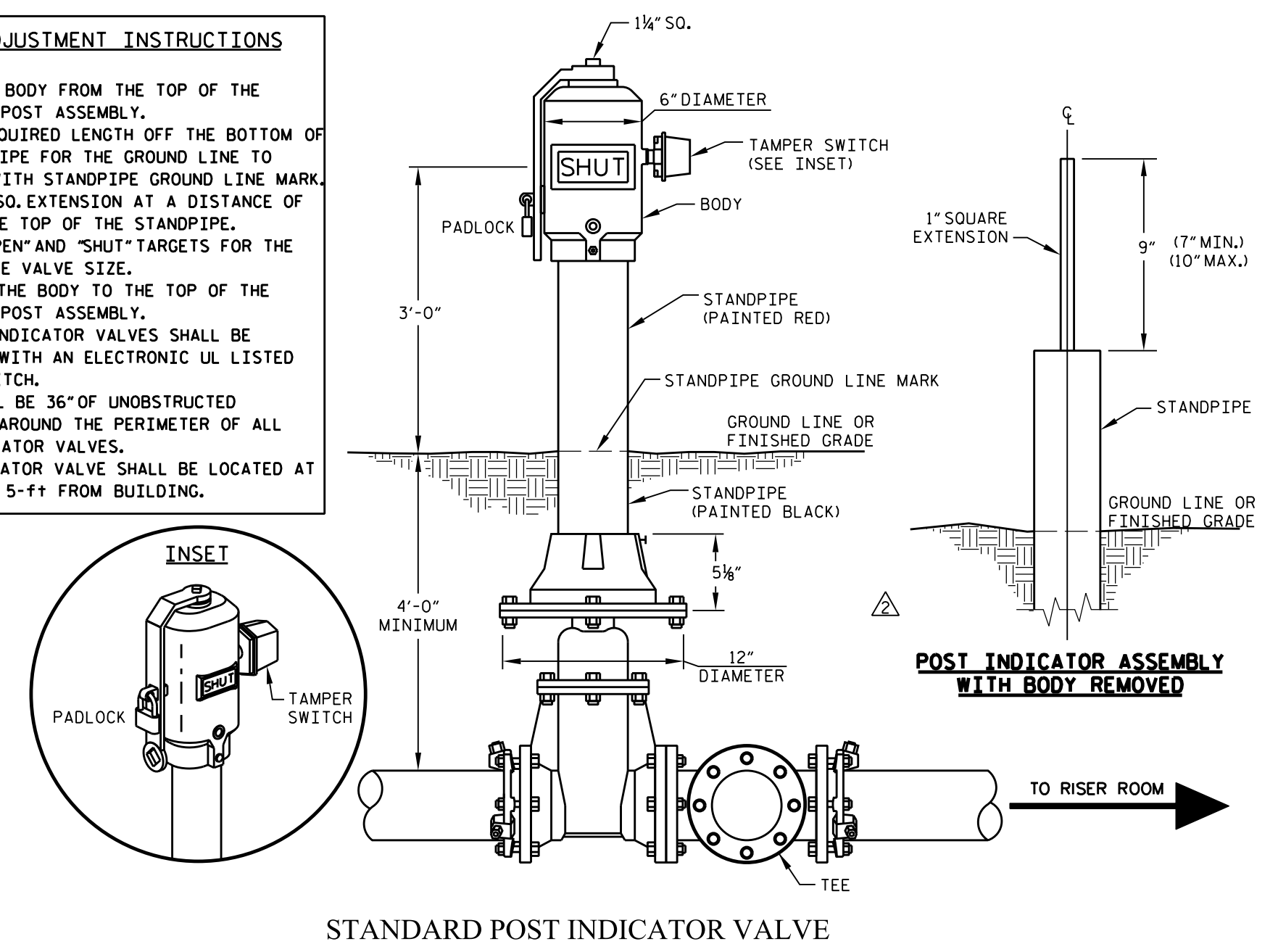
Planning: _____

Traffic: _____

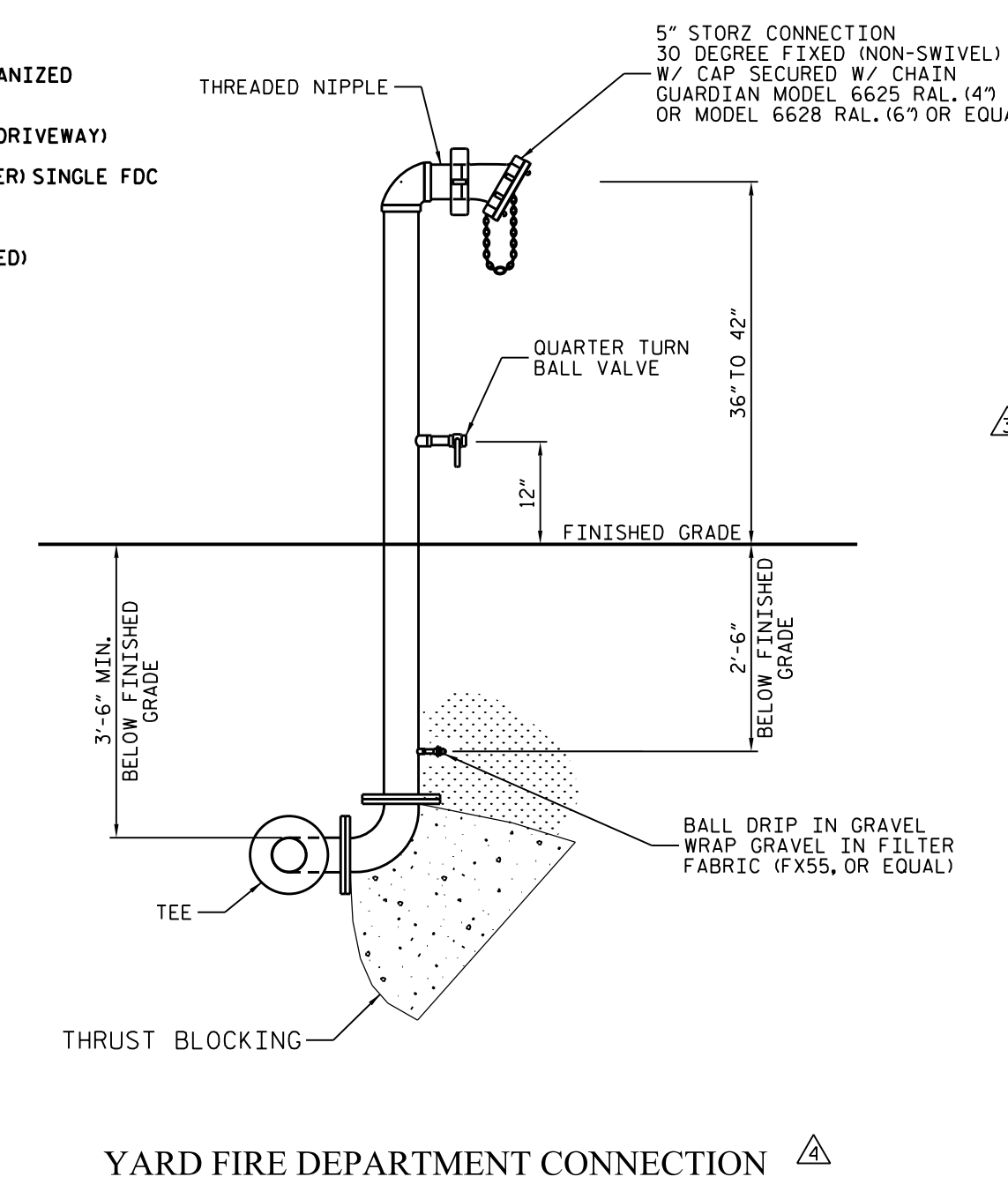
Fire: _____



- 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 SIAMISE
 - 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

UTILITY PLAN DETAILS (WATER)

PLATE REFERENCE NUMBER C-109 SHEET

DESIGNED BY: [Signature] DATE: 05/15/2018

CHECKED BY: [Signature] DATE: 05/15/2018

SCALE: AS SHOWN

PROJECT: CPFWA WATER DISTRIBUTION SYSTEM

LOCATION: [Address]

SCALE: [Scale]

REVISIONS:

NO.	DESCRIPTION	DATE
1	ISSUED FOR CONSTRUCTION	05/15/18
2	REVISED STANDARD DETAIL SHEET WSD-1 AND ADDED POST INDICATOR VALVE (PIV) DETAIL	05/15/18
3	REVISED STANDARD DETAIL SHEET WSD-1 AND ADDED POST INDICATOR VALVE (PIV) DETAIL	05/15/18
4	REVISED STANDARD DETAIL SHEET WSD-1 AND ADDED POST INDICATOR VALVE (PIV) DETAIL	05/15/18
5	REVISED STANDARD DETAIL SHEET WSD-1 AND ADDED POST INDICATOR VALVE (PIV) DETAIL	05/15/18
6	REVISED STANDARD DETAIL SHEET WSD-1 AND ADDED POST INDICATOR VALVE (PIV) DETAIL	05/15/18

DATE: 05/15/2018

SCO ID #: 17-18303-01A

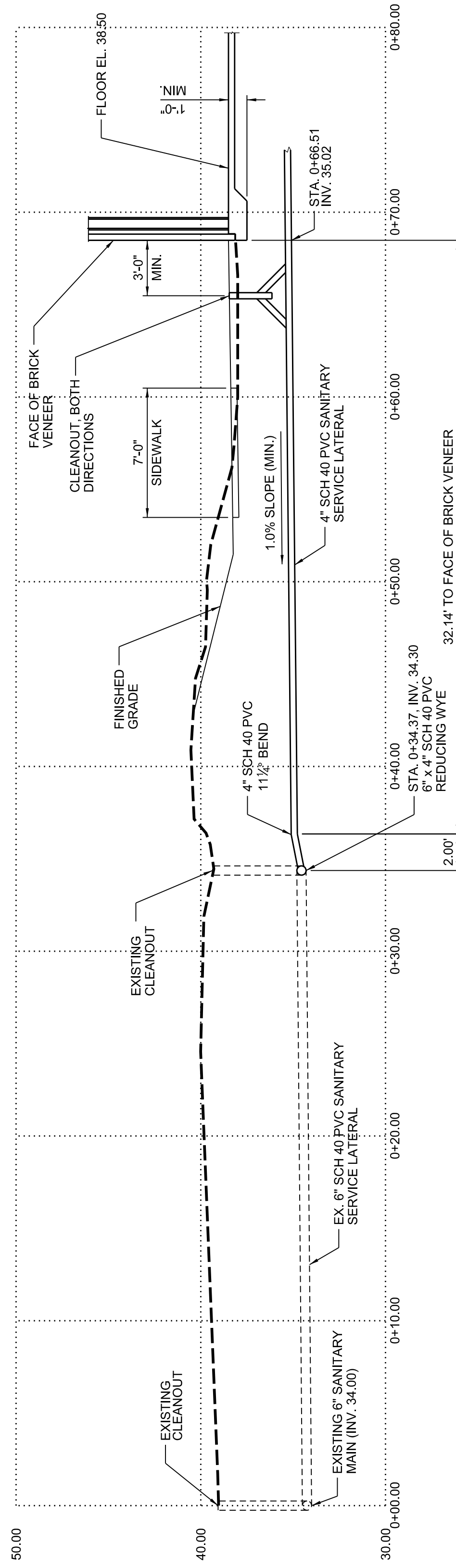
FILE NAME: CIVIL_C109_UTILITY_Details_20180430.dgn

ARCH D: AS SHOWN

PLOT DATE: 05/15/18

PILOT SCALE: AS SHOWN

ISSUED FOR CONSTRUCTION



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.



REV	DATE	DESCRIPTION
1	05/15/2018	ISSUED FOR CONSTRUCTION
2	05/15/2018	ADDED NOTE REGARDING SEAL
3	05/15/2018	ADDED SANITARY LATERAL PROFILE AND MOVED STANDARD DETAIL SHEET SBD-2 TO C-111
4	05/15/2018	ISSUED FOR CONSTRUCTION

Approved Construction Plan

Name: _____ Date: _____

Planning: _____

Traffic: _____

Fire: _____



DATE	BY	DESCRIPTION
05/15/18	RC	ISSUED FOR CONSTRUCTION
02/17/18	RC	ISSUED FOR CONSTRUCTION
11/17/17	RC	ISSUED FOR CONSTRUCTION

DESIGNED BY: RC
 DRAWN BY: RC
 CHECKED BY: RC
 FILE NAME: CIVIL-C110_UTILITY DETAILS_20180430.dgn
 ARCH D: AS SHOWN
 PLOT DATE: 05/15/18

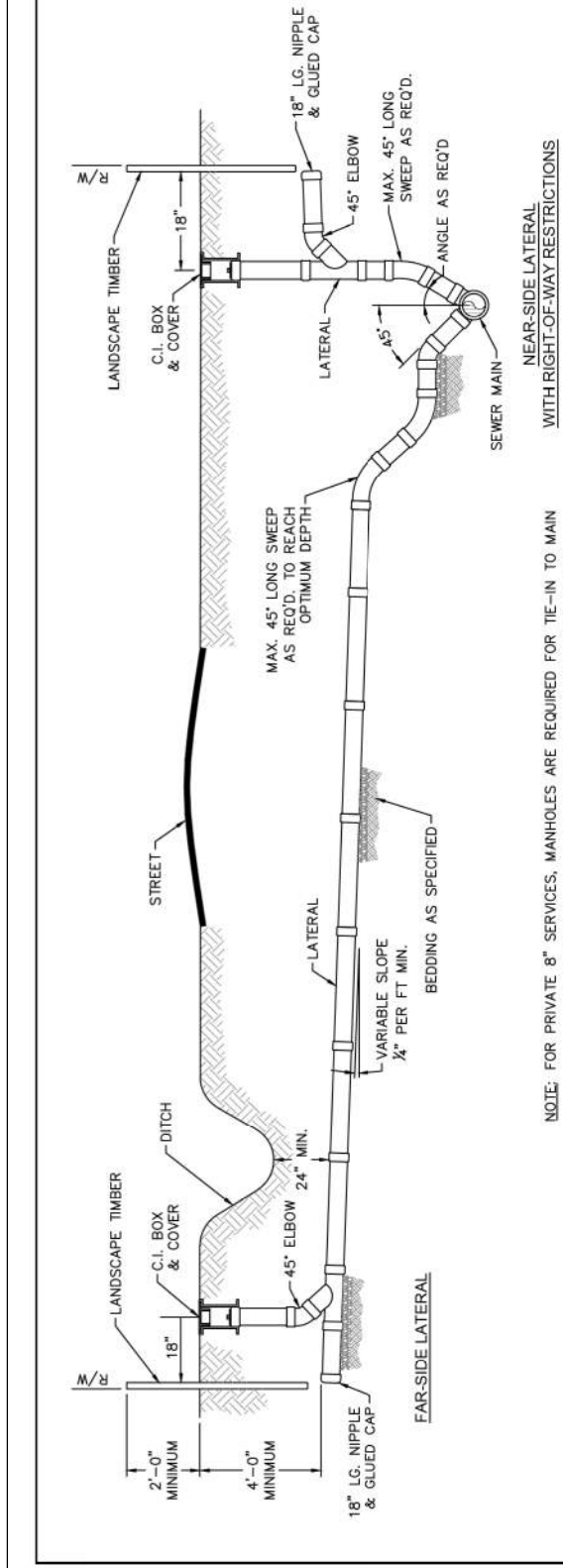
DATE: 05/15/2018
 SCO ID #: 17-18303-01A
 ZAPATA LAB. P.L.C.

200 W. HARRIS BLVD.
 1001 AVERBROOK ROAD, SUITE 215
 GARNER, NC 27529
 (919) 584-6710

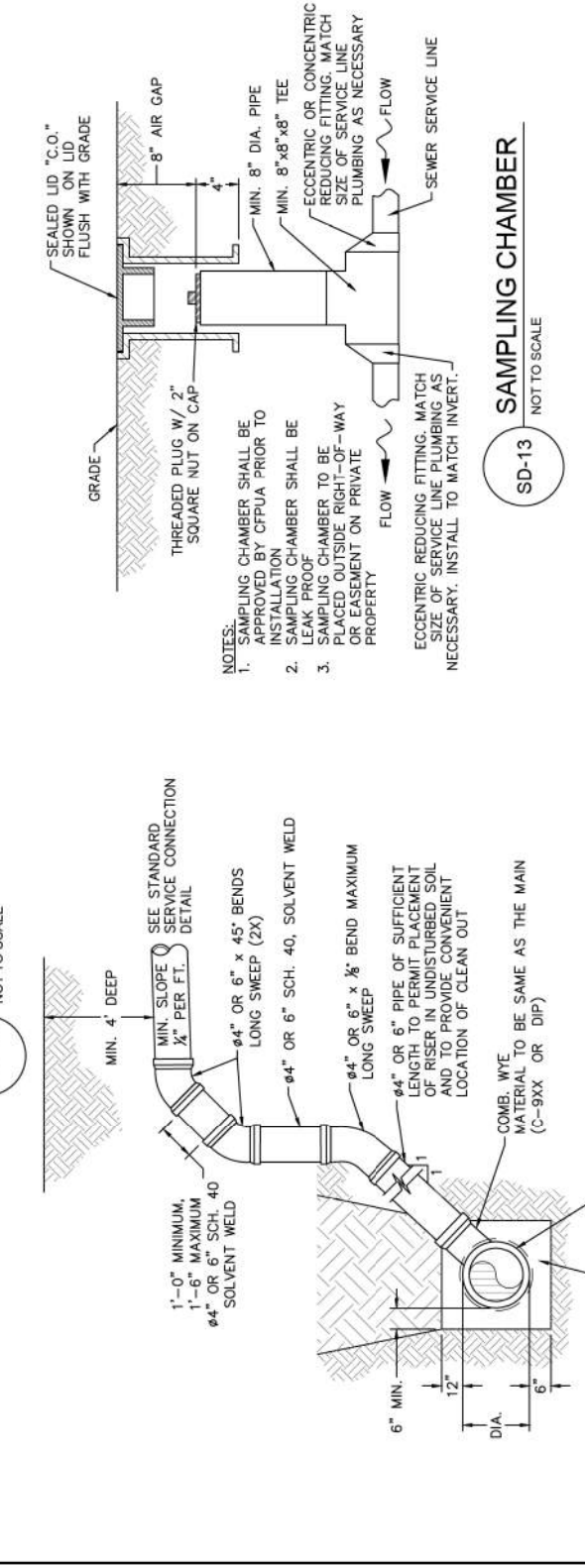
ADMINISTRATIVE ANNEX BUILDING
 UNIVERSITY OF NORTH CAROLINA - WILMINGTON
 622 MACMILLAN AVENUE, WILMINGTON, NC

UTILITY PLAN DETAILS (SANITARY)

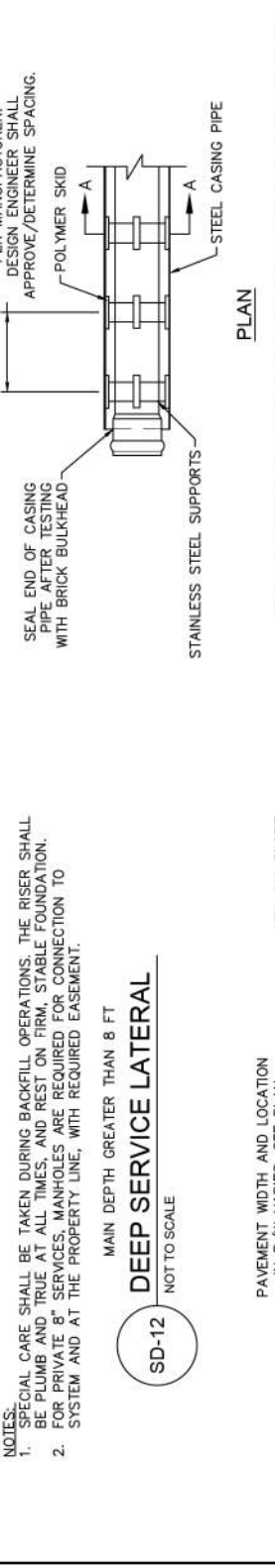
PLATE REFERENCE NUMBER
C-110
 SHEET



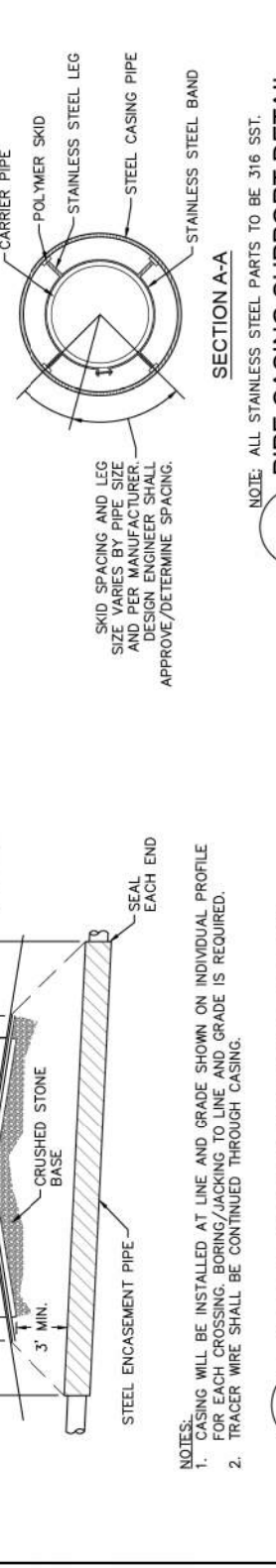
SD-19 STANDARD SERVICE CONNECTION TO SANITARY SEWER
NOT TO SCALE



SD-10 STANDARD SERVICE LATERAL
NOT TO SCALE



SD-11 SERVICE CONNECTION AND CLEAN-OUT
NOT TO SCALE



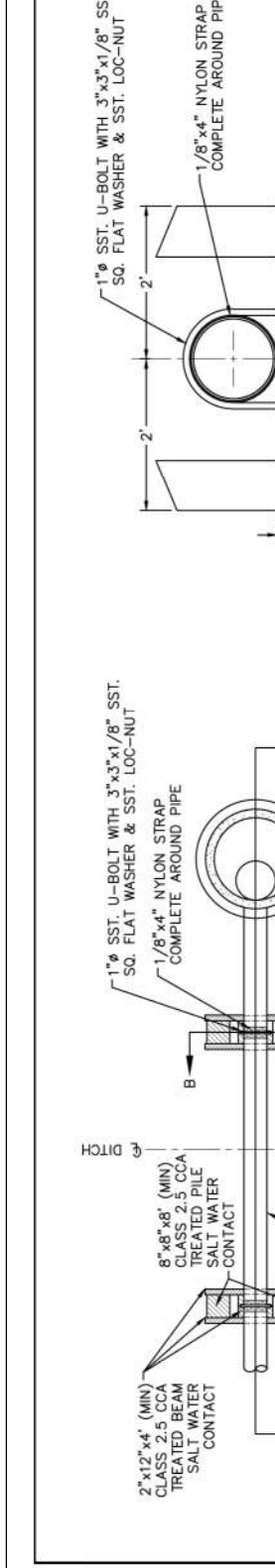
SD-12 DEEP SERVICE LATERAL
NOT TO SCALE



SD-16 TYPICAL BORING-JACKING DETAIL
NOT TO SCALE



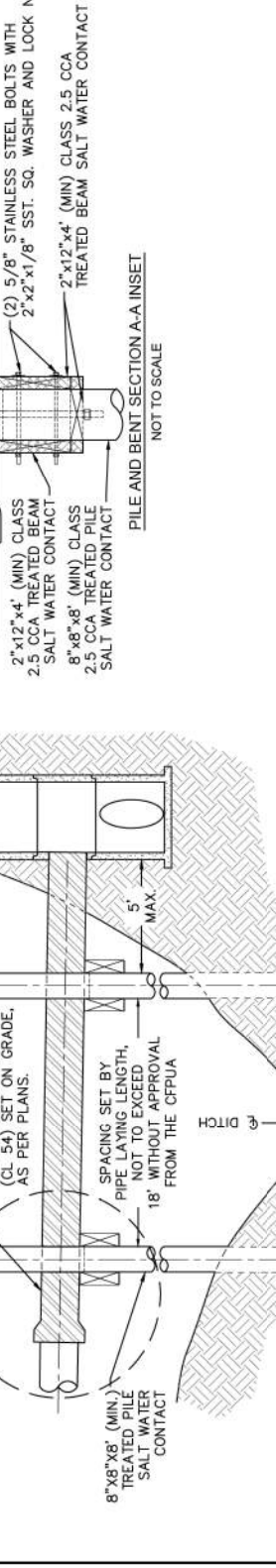
SD-13 SAMPLING CHAMBER
NOT TO SCALE



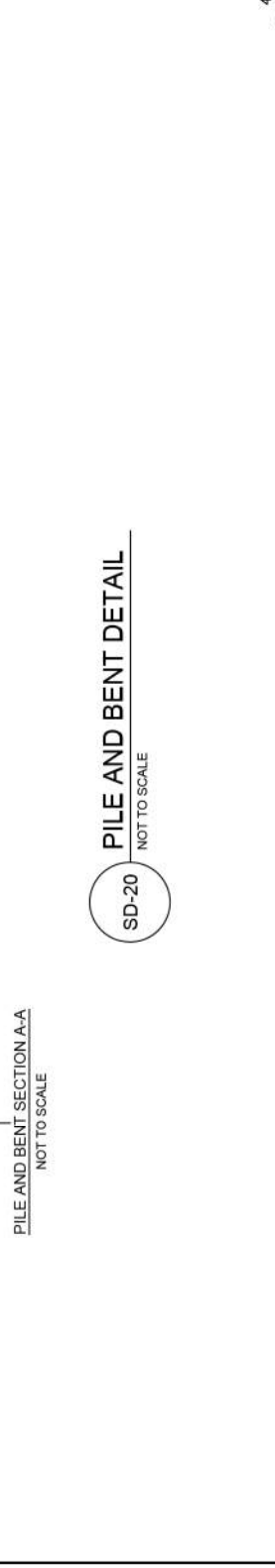
SD-14 PAVEMENT REPAIR WHERE PIPE INSTALLED
NOT TO SCALE



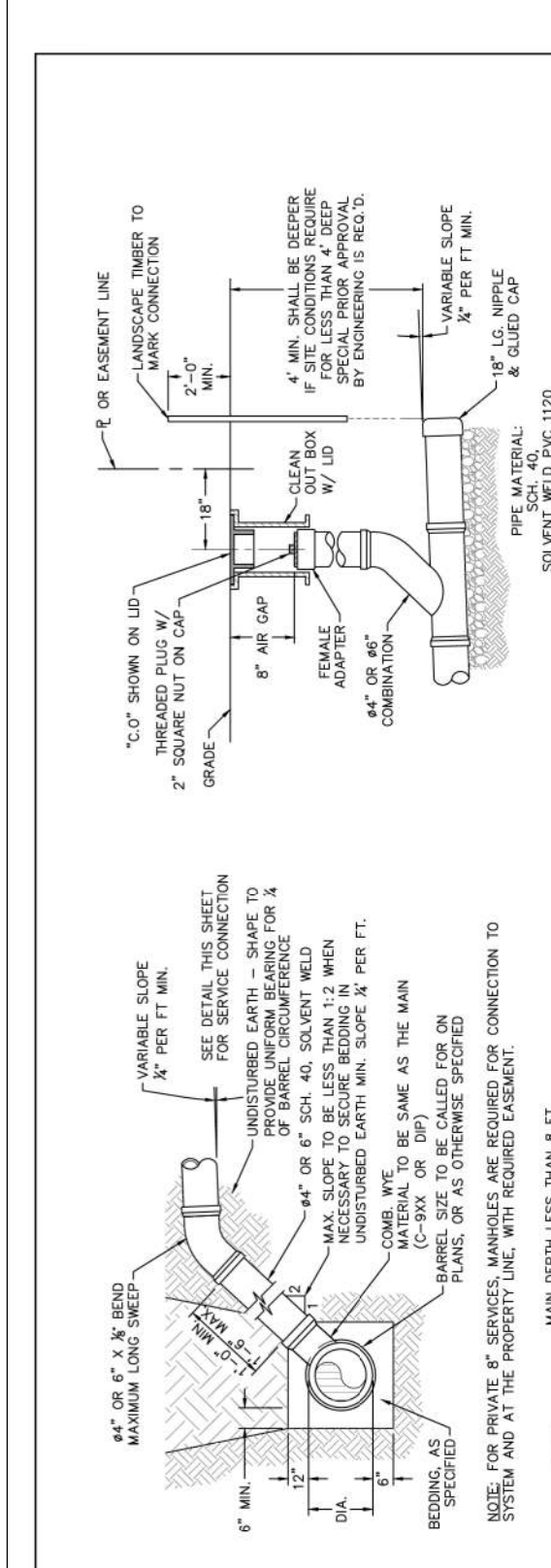
SD-17 PIPE SIZING SUPPORT DETAIL
NOT TO SCALE



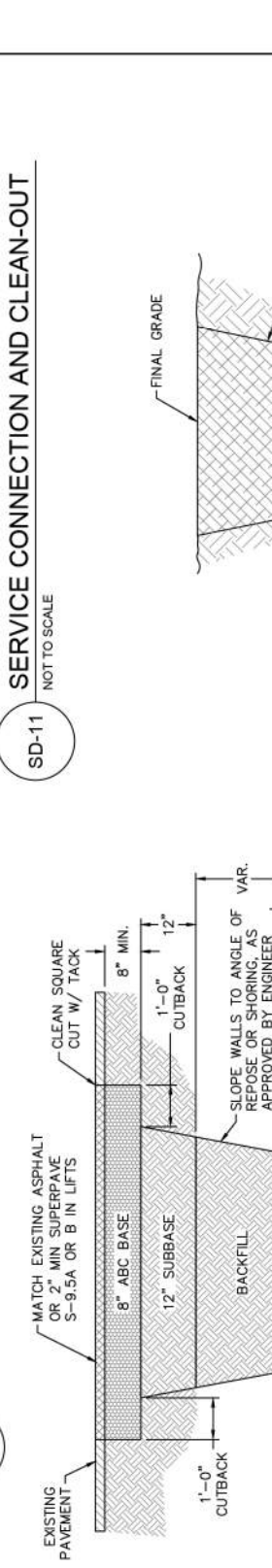
SD-20 PILE AND BENT DETAIL
NOT TO SCALE



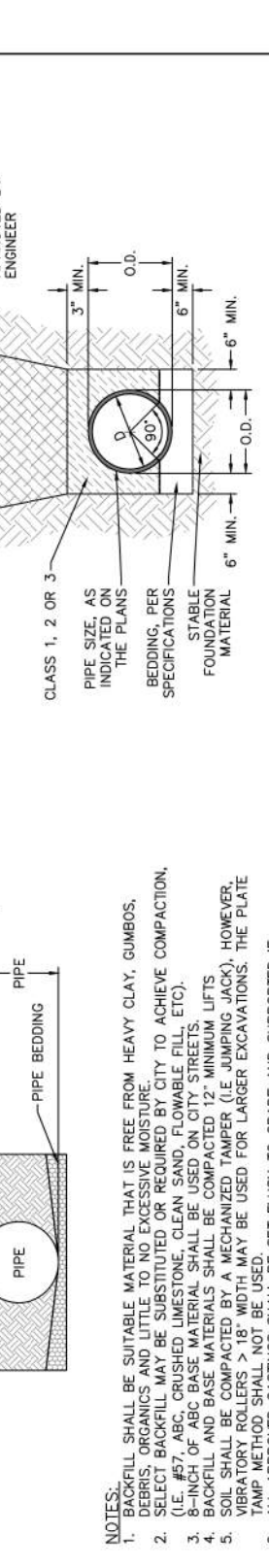
SD-21 TRACER WIRE DETAIL
NOT TO SCALE



SD-15 TYPICAL TRENCH DETAIL
NOT TO SCALE



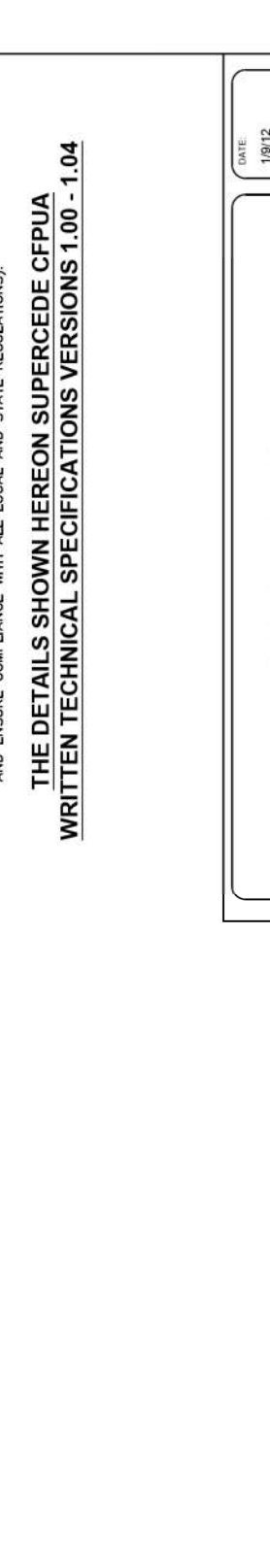
SD-24 STRUCTURAL BRIDGING DETAIL FOR STORMWATER OVER GRAVITY SEWER INSTALLATIONS WITH LESS THAN 12\"/>



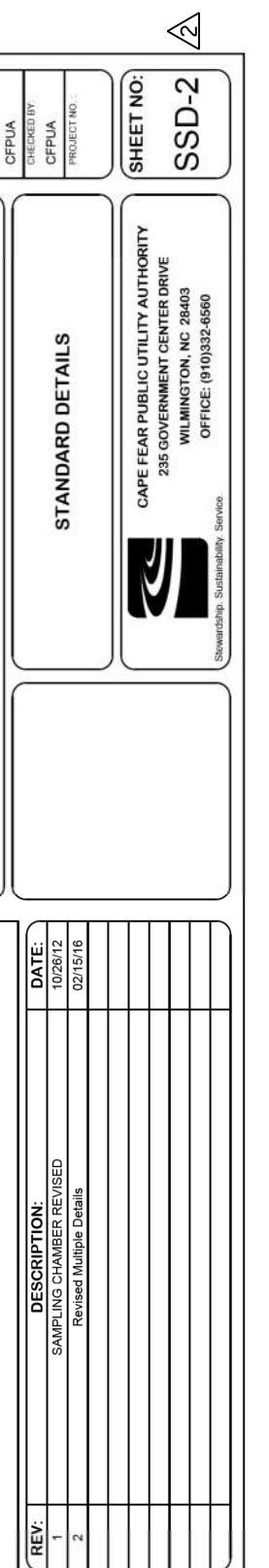
SD-19 FORCE MAIN DITCH AND STORM DRAIN CROSSING
NOT TO SCALE



SD-21 TRACER WIRE DETAIL
NOT TO SCALE



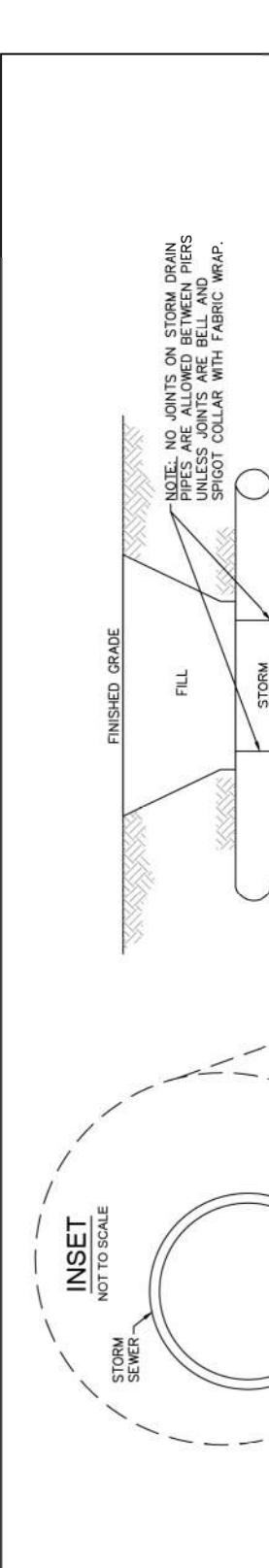
SD-24 STRUCTURAL BRIDGING DETAIL FOR STORMWATER OVER GRAVITY SEWER INSTALLATIONS WITH LESS THAN 12\"/>



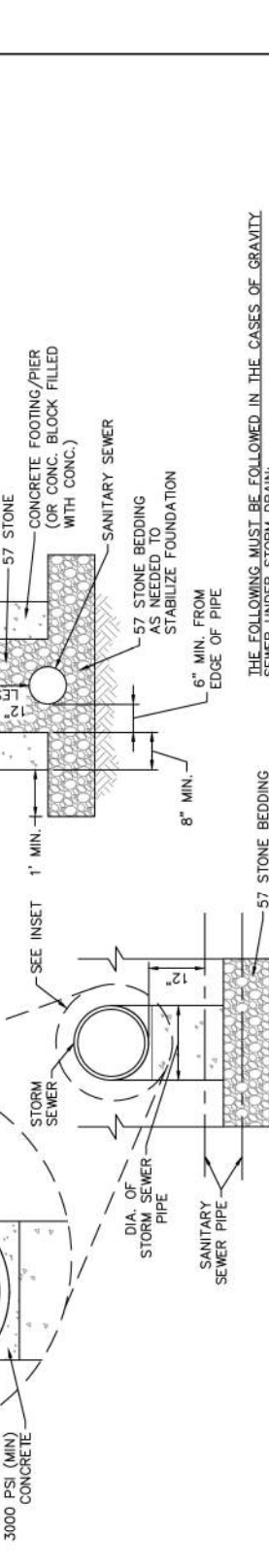
SD-19 FORCE MAIN DITCH AND STORM DRAIN CROSSING
NOT TO SCALE



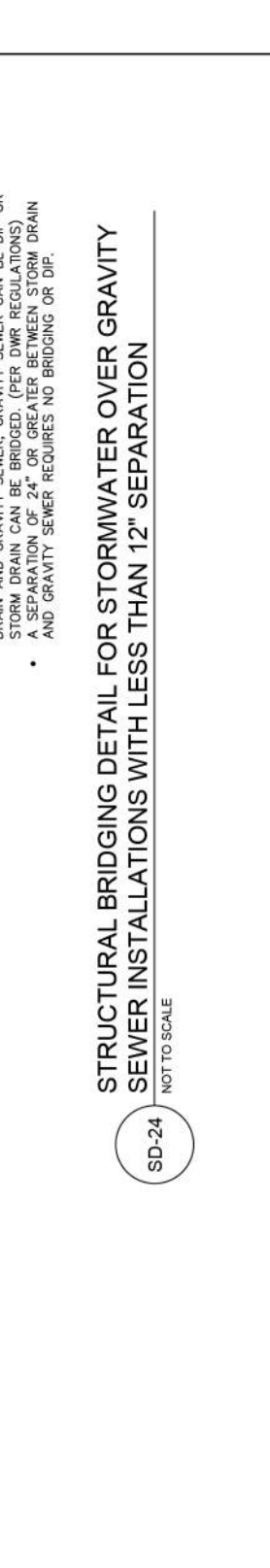
SD-21 TRACER WIRE DETAIL
NOT TO SCALE



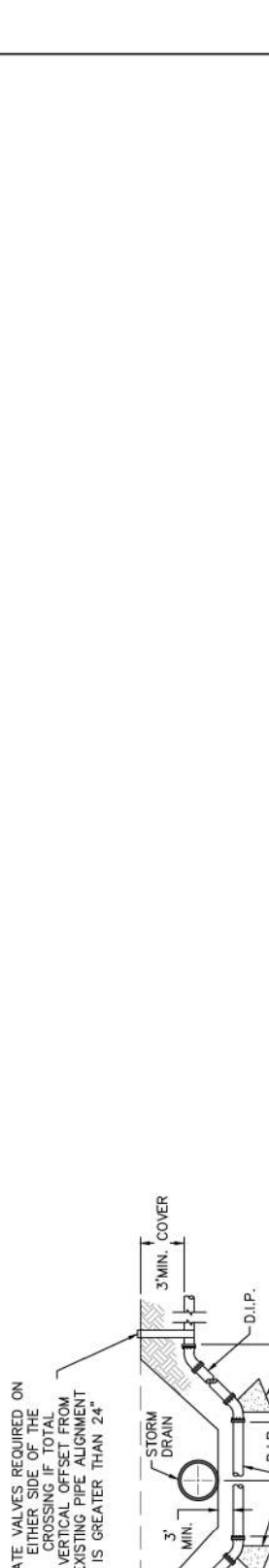
SD-24 STRUCTURAL BRIDGING DETAIL FOR STORMWATER OVER GRAVITY SEWER INSTALLATIONS WITH LESS THAN 12\"/>



SD-19 FORCE MAIN DITCH AND STORM DRAIN CROSSING
NOT TO SCALE



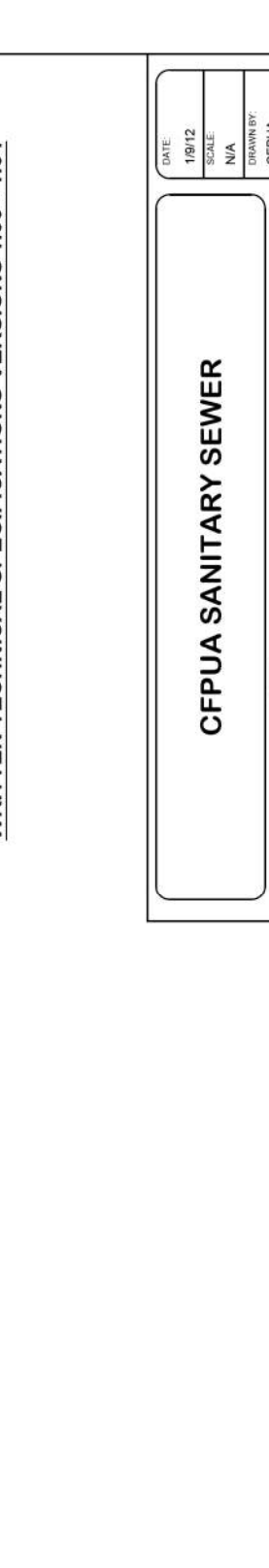
SD-21 TRACER WIRE DETAIL
NOT TO SCALE



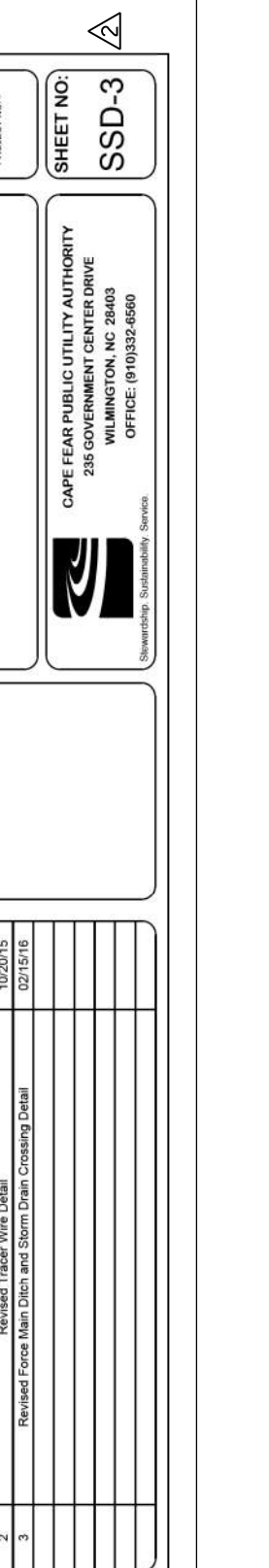
SD-24 STRUCTURAL BRIDGING DETAIL FOR STORMWATER OVER GRAVITY SEWER INSTALLATIONS WITH LESS THAN 12\"/>



SD-19 FORCE MAIN DITCH AND STORM DRAIN CROSSING
NOT TO SCALE



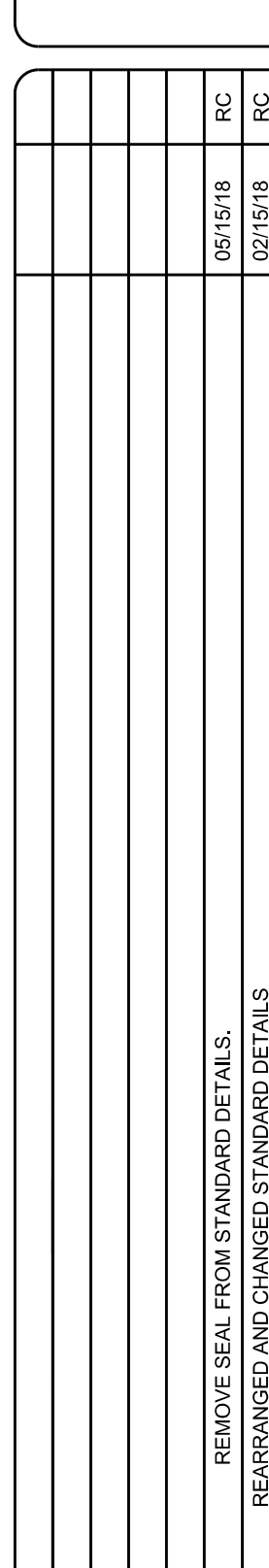
SD-21 TRACER WIRE DETAIL
NOT TO SCALE



SD-24 STRUCTURAL BRIDGING DETAIL FOR STORMWATER OVER GRAVITY SEWER INSTALLATIONS WITH LESS THAN 12\"/>



SD-19 FORCE MAIN DITCH AND STORM DRAIN CROSSING
NOT TO SCALE



SD-21 TRACER WIRE DETAIL
NOT TO SCALE

GENERAL NOTES: MATERIAL SHALL BE PLACED IN ANY STREAM BED OR DRAINAGE-WAY. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES BEFORE ANY CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL AFFECTED AGENCIES. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL AFFECTED AGENCIES. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL AFFECTED AGENCIES.

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

REV.	DESCRIPTION	DATE
1	ISSUED FOR CONSTRUCTION	05/15/2018
2	REARRANGED AND CHANGED STANDARD DETAILS	02/15/18
3	ISSUED FOR CONSTRUCTION	11/17/17

REV.	DESCRIPTION	DATE
1	ISSUED FOR CONSTRUCTION	05/15/2018
2	REARRANGED AND CHANGED STANDARD DETAILS	02/15/18
3	ISSUED FOR CONSTRUCTION	11/17/17

CPWA SANITARY SEWER

CPWA SANITARY SEWER

STANDARD DETAILS

STANDARD DETAILS

CAPE Fear Public Utility Authority
2300 WILMINGTON AVENUE
WILMINGTON, NC 28403
OFFICE (910)333-8888

CAPE Fear Public Utility Authority
2300 WILMINGTON AVENUE
WILMINGTON, NC 28403
OFFICE (910)333-8888

SHEET NO. SSS-2

SHEET NO. SSS-3

DATE: 05/15/2018
DRAWN BY: J. B. ZAPATA
CHECKED BY: J. B. ZAPATA
FILE NAME: CIV-C111 Utility Details_20180430.dgn
ARCH: AS SHOWN
AS SHOWN

DATE: 05/15/2018
DRAWN BY: J. B. ZAPATA
CHECKED BY: J. B. ZAPATA
FILE NAME: CIV-C111 Utility Details_20180430.dgn
ARCH: AS SHOWN
AS SHOWN

DESIGNED BY: J. B. ZAPATA
DATE: 05/15/2018
SCO ID #: 17-18303-01A
ZAPATA LAB. P.L.L.C.
1001 AVERBROOK ROAD, SUITE 215
GARNER, NC 27529
(919) 584-6710

DESIGNED BY: J. B. ZAPATA
DATE: 05/15/2018
SCO ID #: 17-18303-01A
ZAPATA LAB. P.L.L.C.
1001 AVERBROOK ROAD, SUITE 215
GARNER, NC 27529
(919) 584-6710

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

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

UTILITY PLAN DETAILS (SANITARY)

UTILITY PLAN DETAILS (SANITARY)

PLATE REFERENCE NUMBER C-111 SHEET

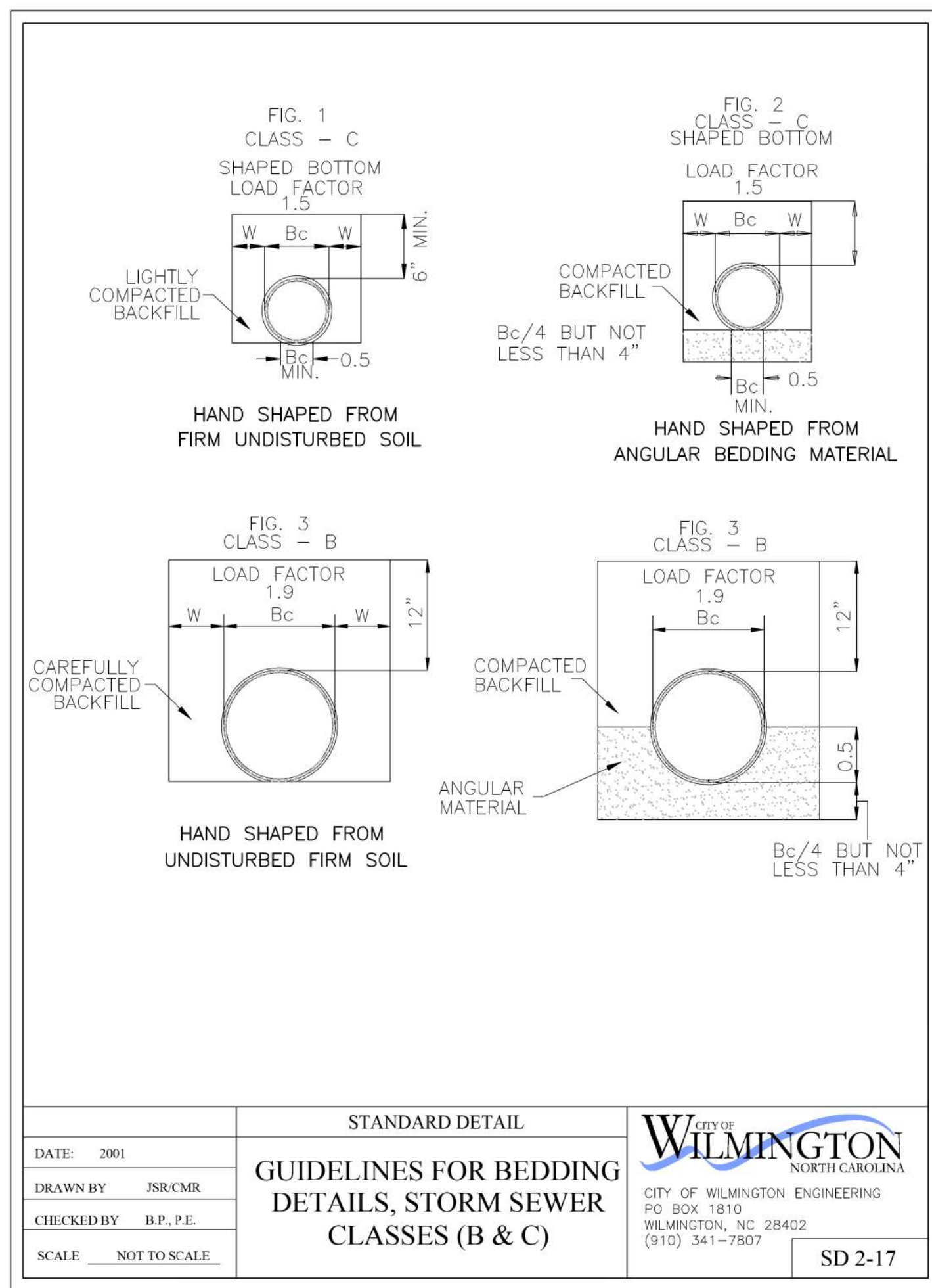
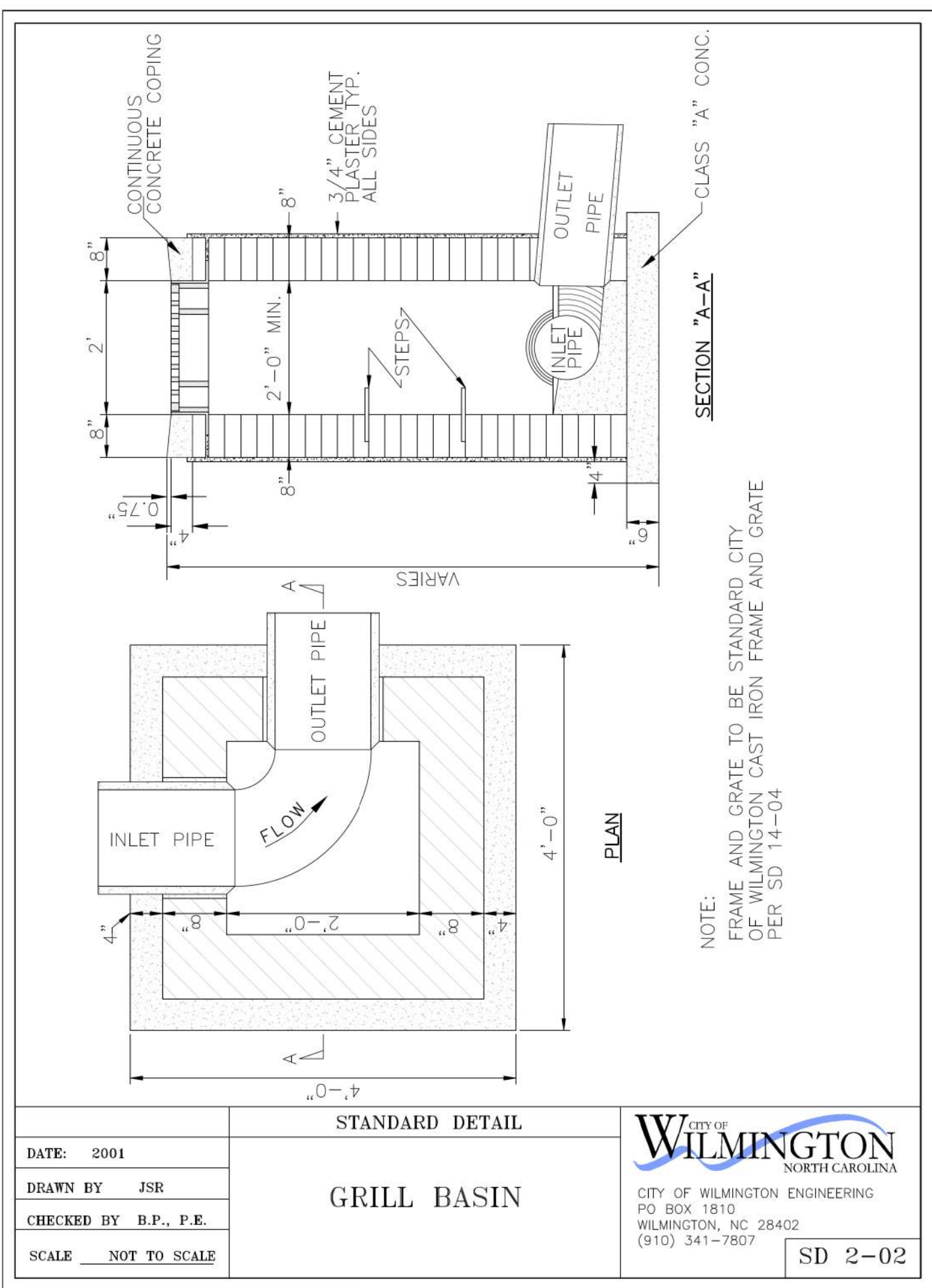
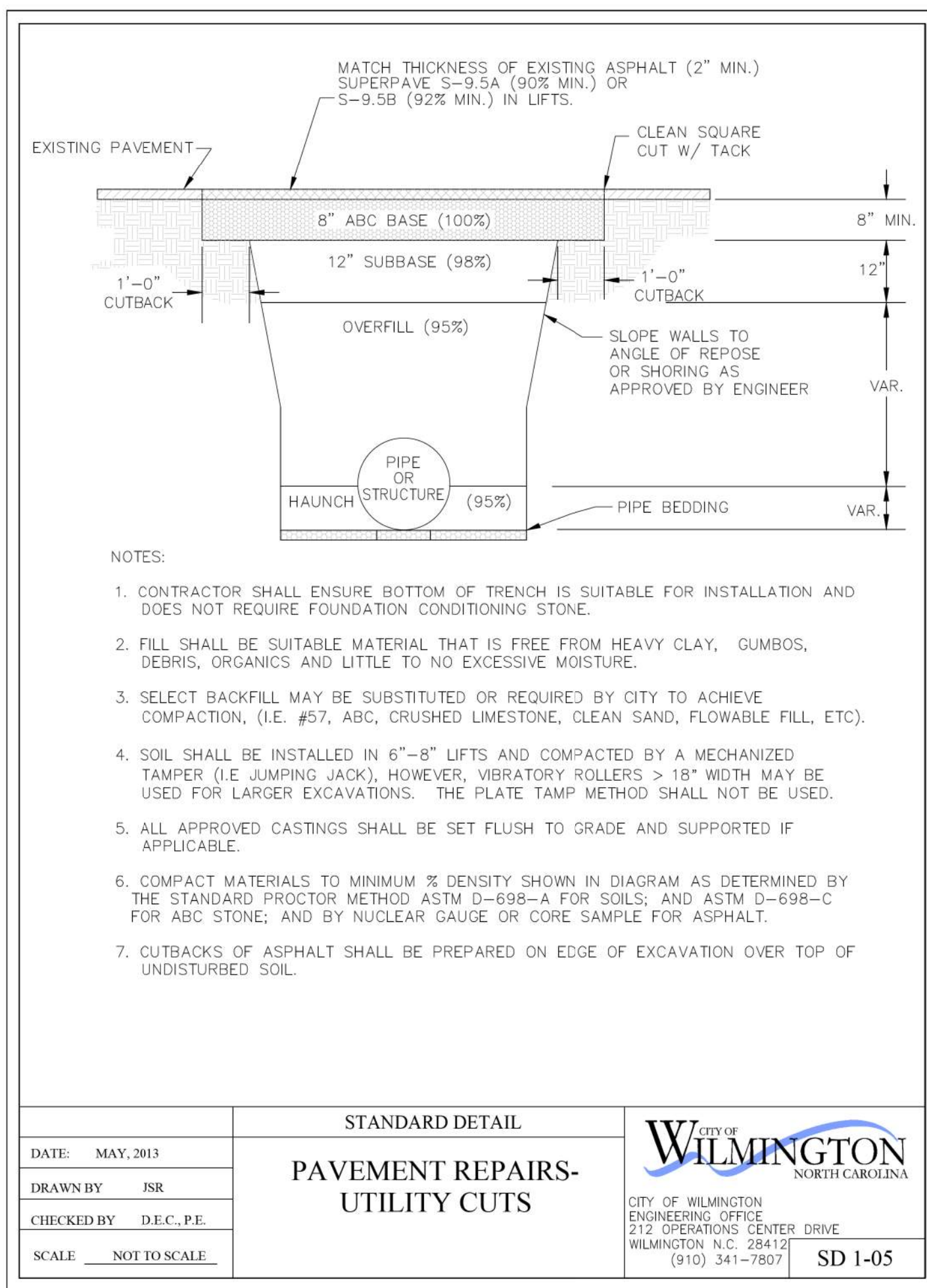
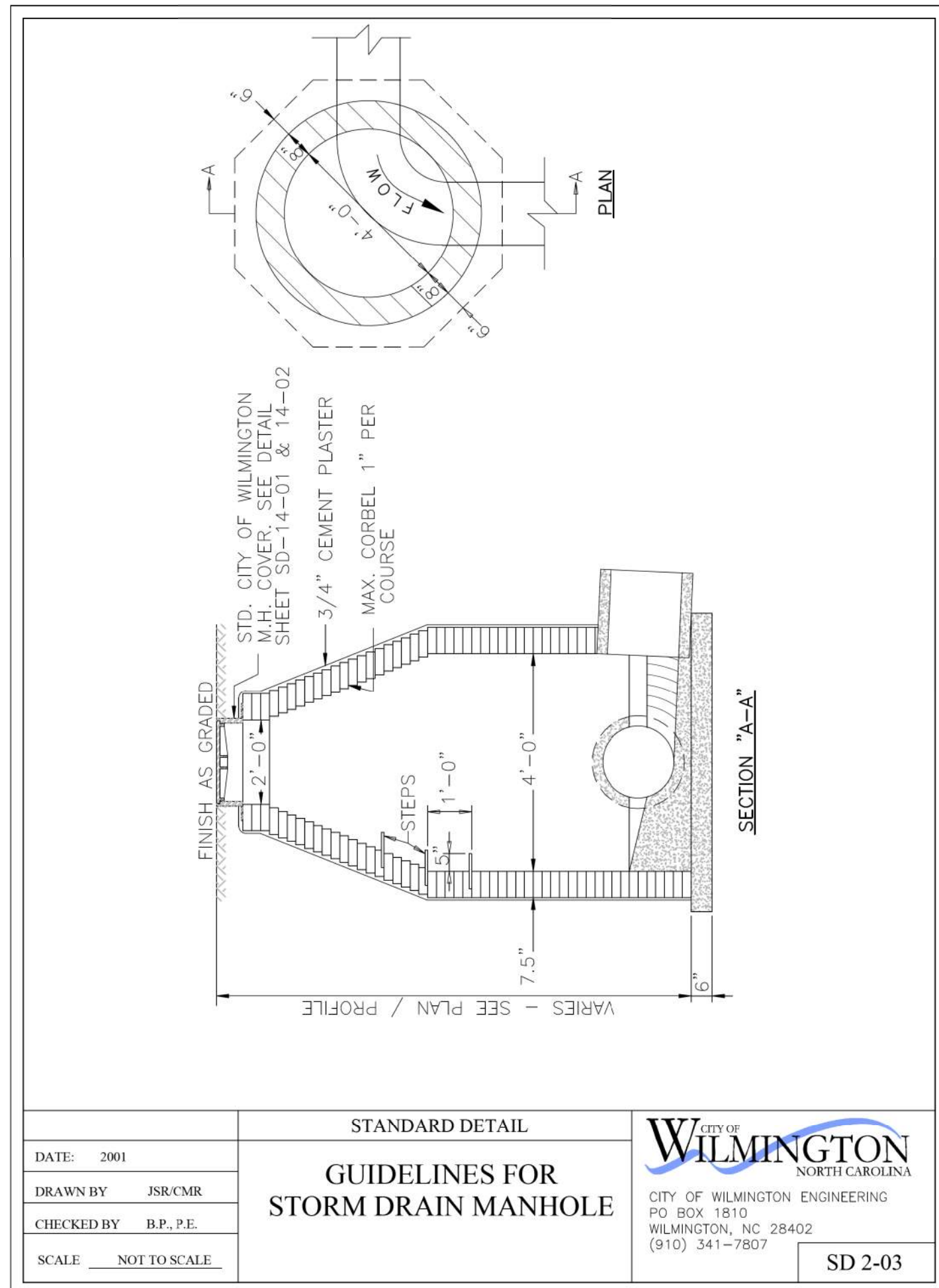
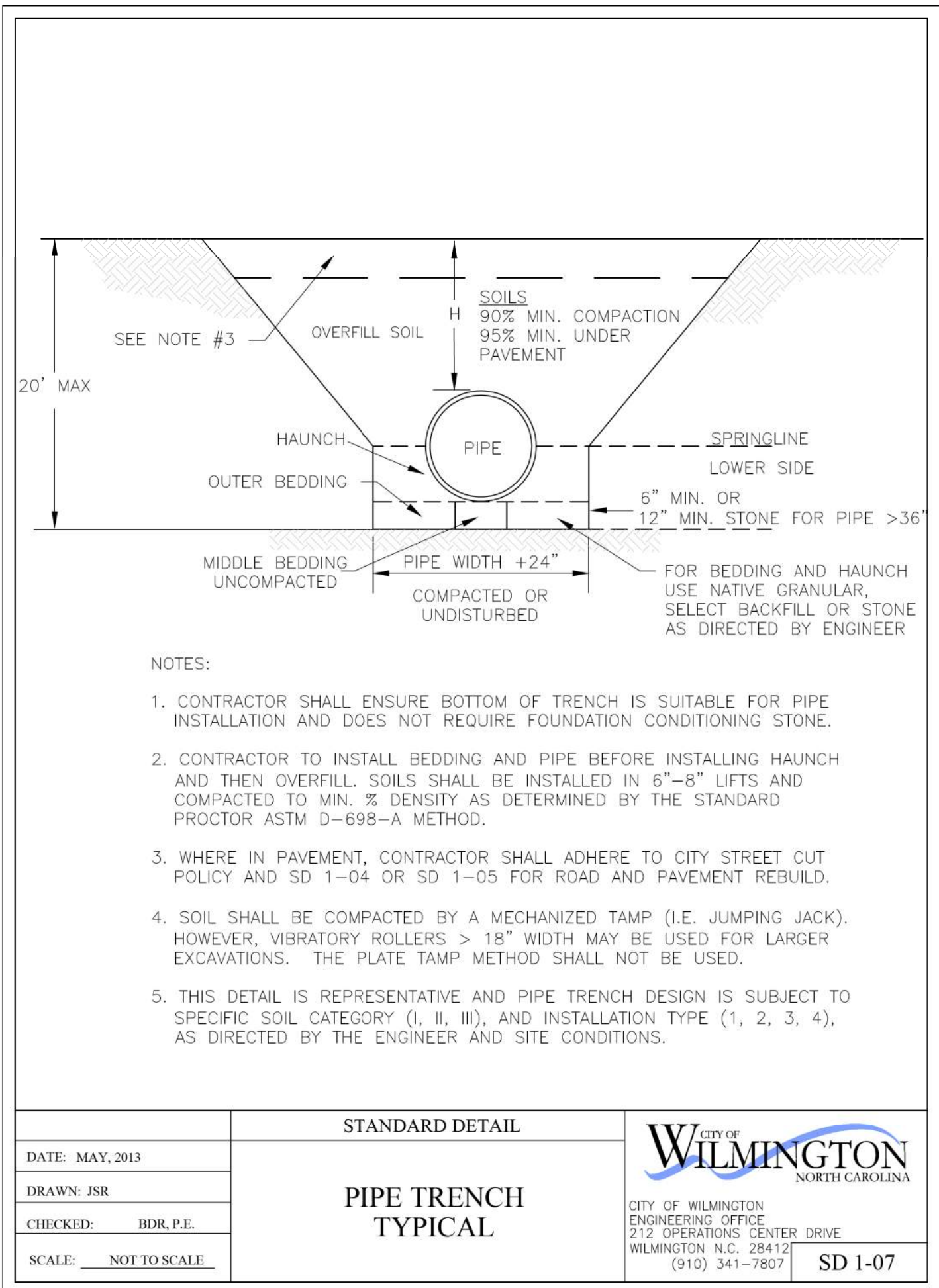
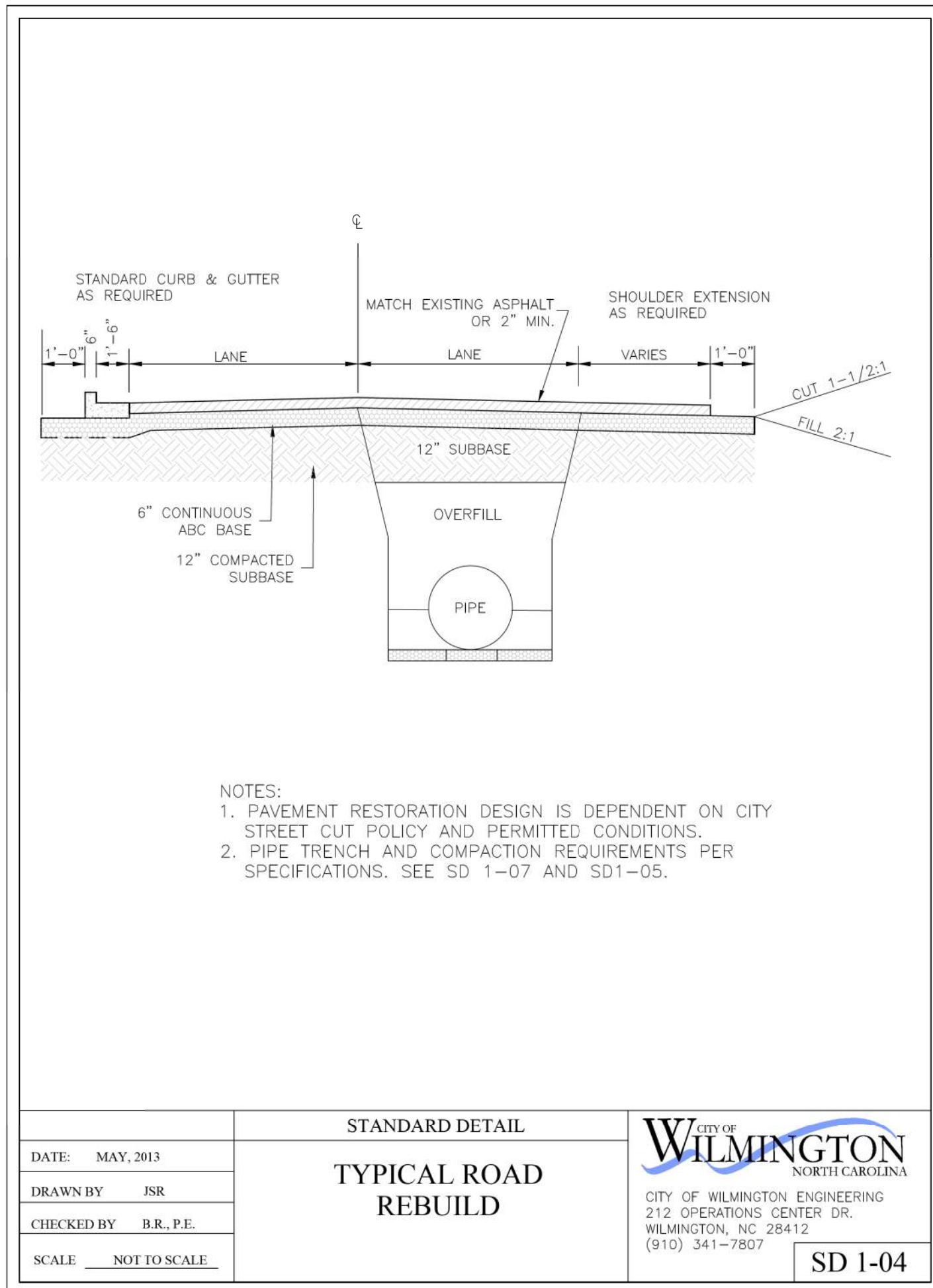
PLATE REFERENCE NUMBER C-111 SHEET

APPROVED CONSTRUCTION PLAN

APPROVED CONSTRUCTION PLAN

UNCW

UNCW



Approved Construction Plan

Name: _____ Date: _____

Planning: _____

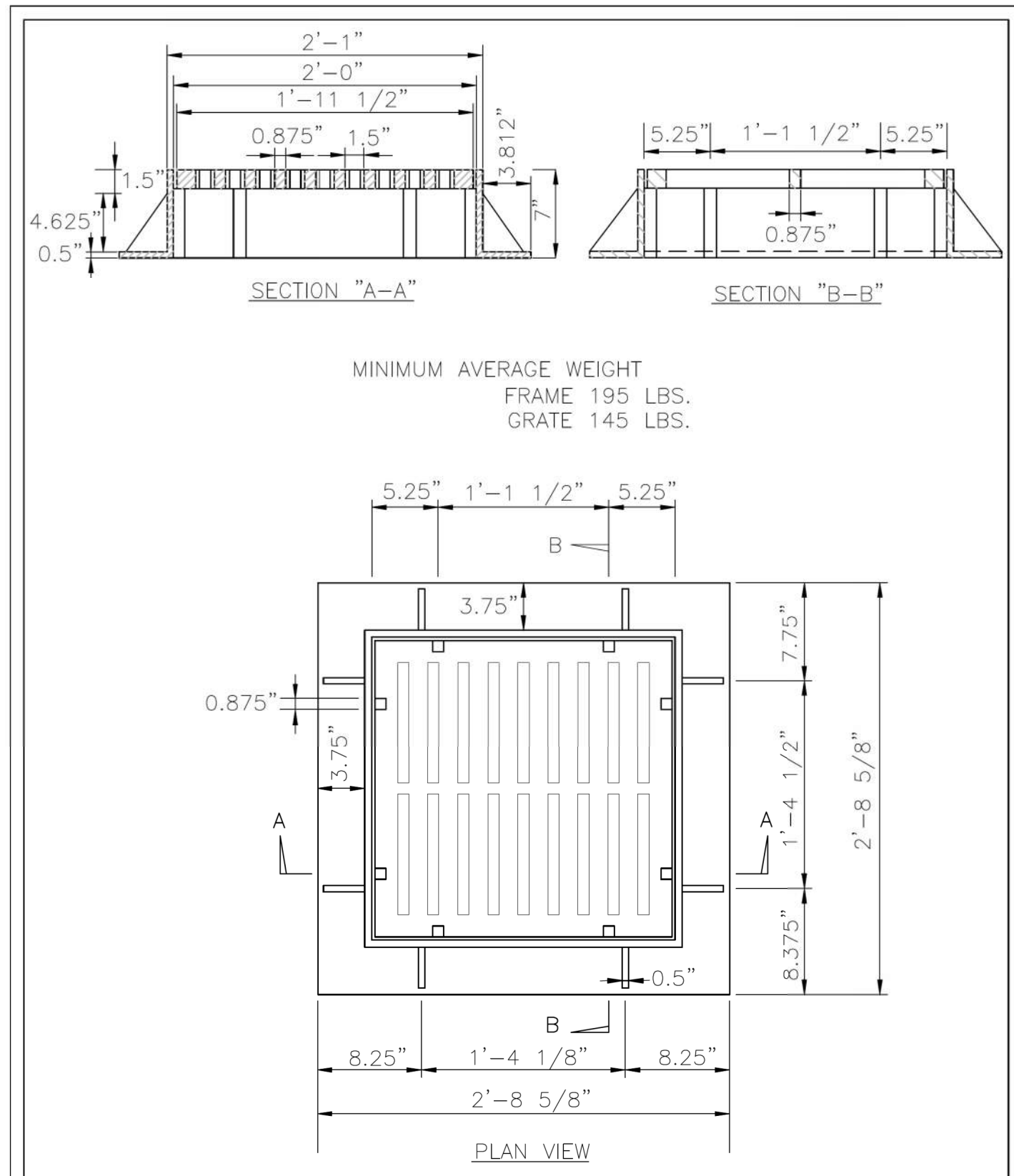
Traffic: _____

Fire: _____

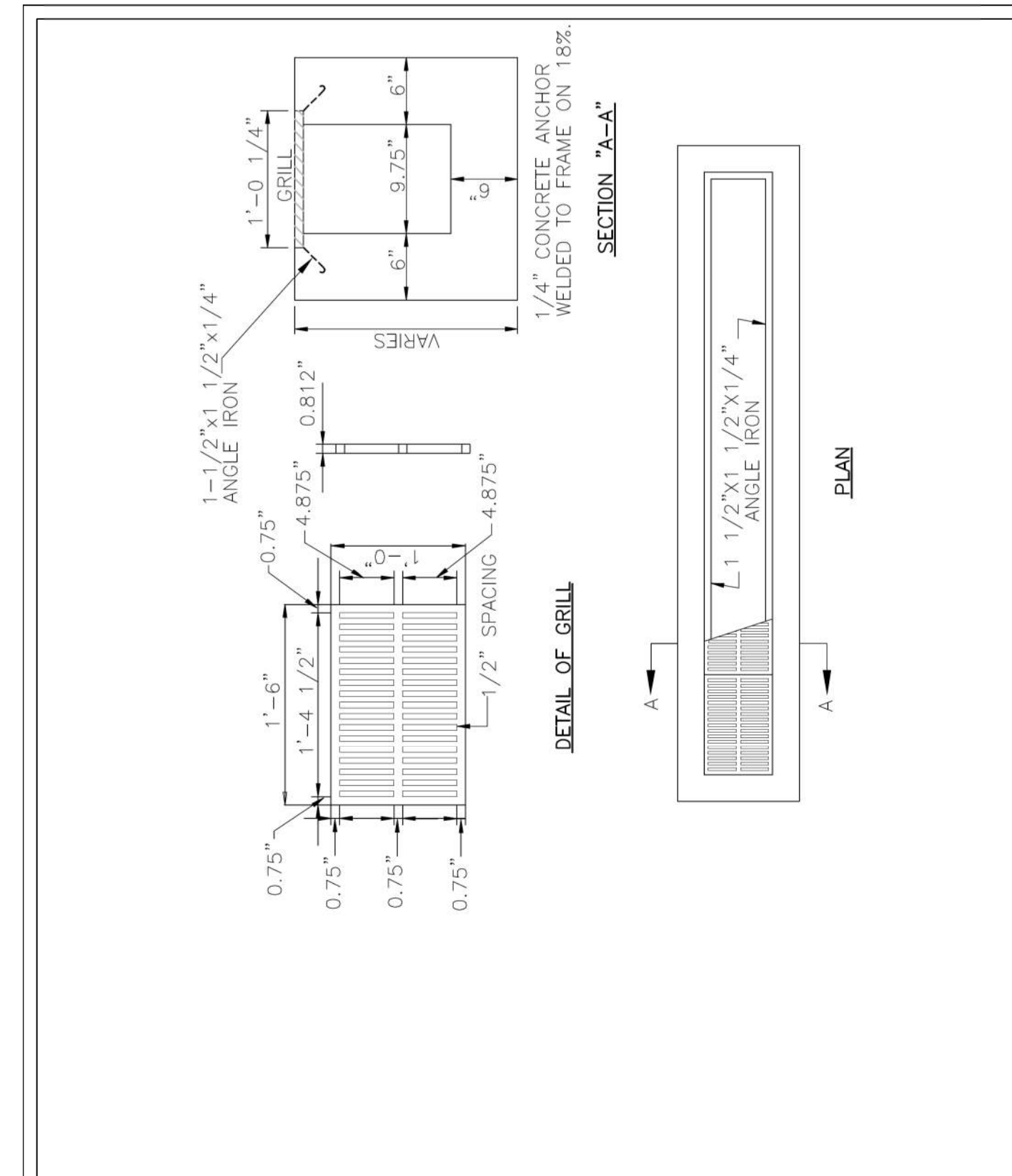
DESIGNED BY: RC	DATE: 05/15/2018	SCO ID #: 17-18303-01A	REMOVED SEAL FROM STANDARD DETAILS	RC
DOWN BY: JSR	CRD BY: BSE	FILE NAME: CIV-C12 Utility Details_20180403.dgn	REARRANGED AND CHANGED STANDARD DETAILS	RC
ISSUED BY: JSR	DATE: 05/15/18	ARCH D: AS SHOWN	ISSUED FOR CONSTRUCTION	RC
PLATE REFERENCE NUMBER C-112 SHEET				

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

UTILITY DETAILS (STORM)

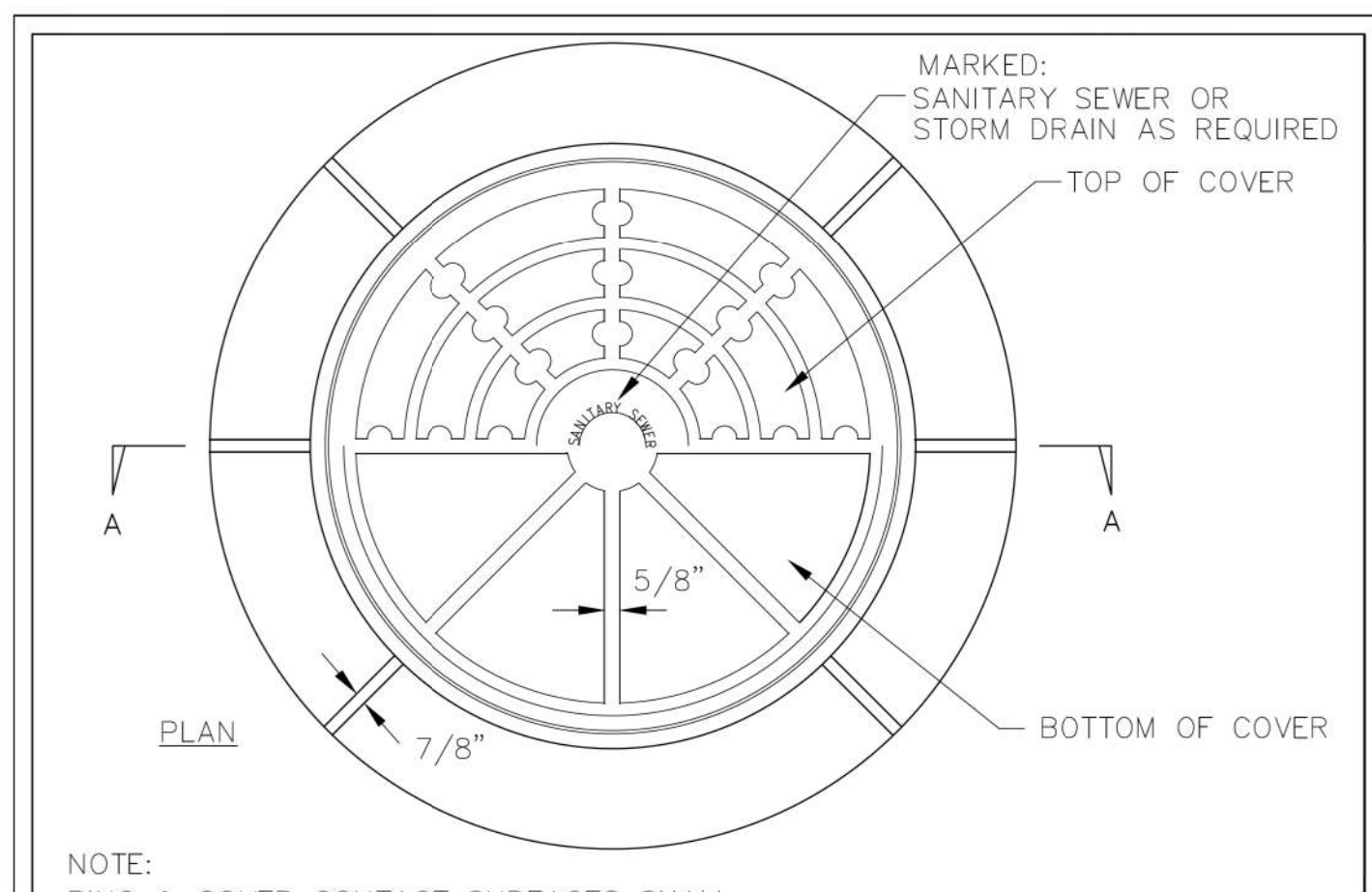


DATE: 2001	STANDARD DETAIL	 CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, NC 28402 (910) 341-7807	SD 14-04
DRAWN BY JSR/CMR	GRILL BASIN CASTINGS		
CHECKED BY B.P., P.E.			
SCALE: NOT TO SCALE			

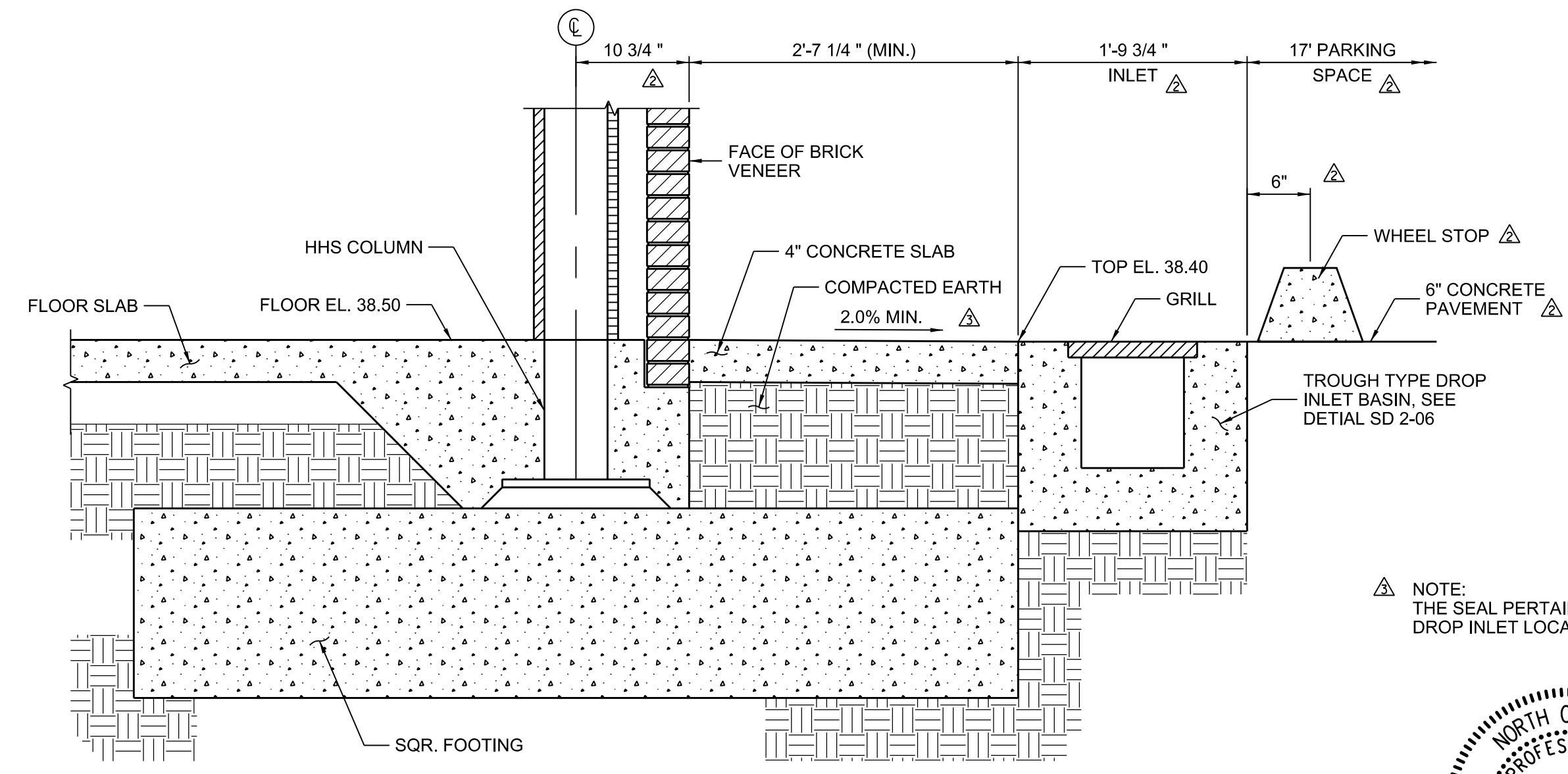


DATE: 2001	STANDARD DETAIL	 CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, NC 28402 (910) 341-7807	SD 2-06
DRAWN BY JSR/CMR	TROUGH TYPE DROP INLET BASIN		
CHECKED BY B.P., P.E.			
SCALE: NOT TO SCALE			

Approved Construction Plan	
Name	Date
Planning	
Traffic	
Fire	



DATE: 2001	STANDARD DETAIL	 CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, NC 28402 (910) 341-7807	SD 14-02
DRAWN BY JSR/CMR	STANDARD MAN-HOLE RING AND COVER		
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.

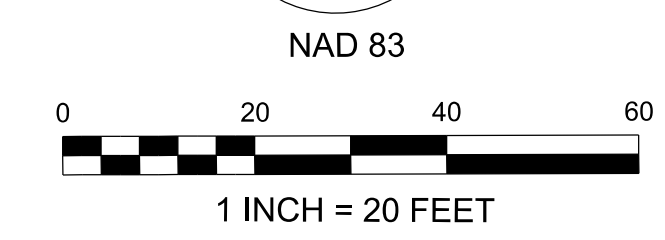
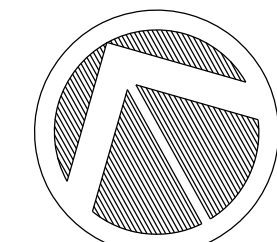


DESIGNED BY: RC	DATE: 05/15/2018	SCO ID #:	17-18303-01A
DRAWN BY: JSR	CHKD BY: RC	FILE NAME:	CIV-C113_Utility Details_20180430.dgn
CHECKED BY: B.P.	DATE: 05/15/18	PLANT DATE:	05/15/18
SCALE: NOT TO SCALE		ARCH D:	AS SHOWN
		SIZE:	AS SHOWN

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

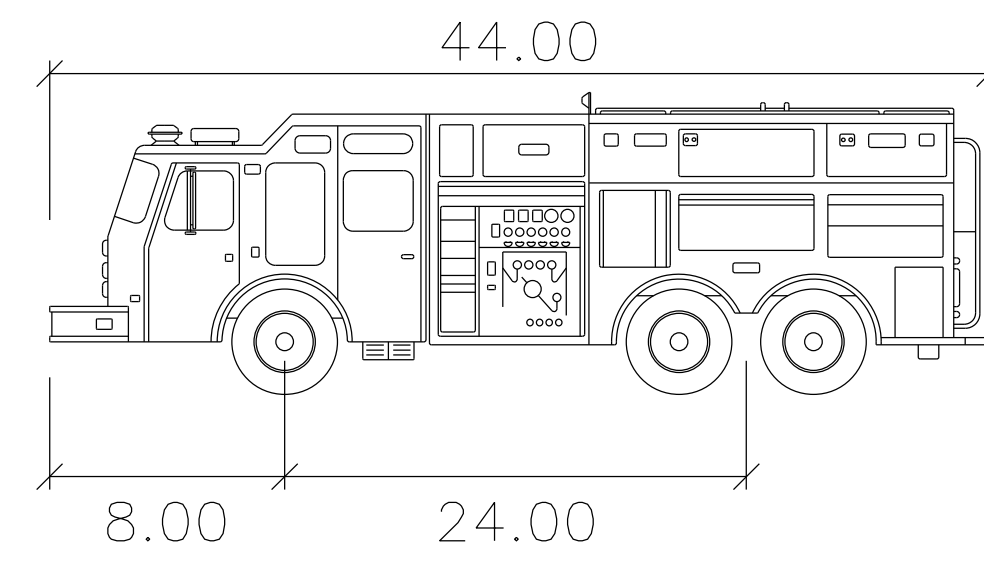
UTILITY DETAILS (STORM)

PLATE REFERENCE NUMBER
C-113
SHEET



LEGEND

- PATH
- TIRE TREADS
- VEHICLE BODY



Pumper Fire Truck

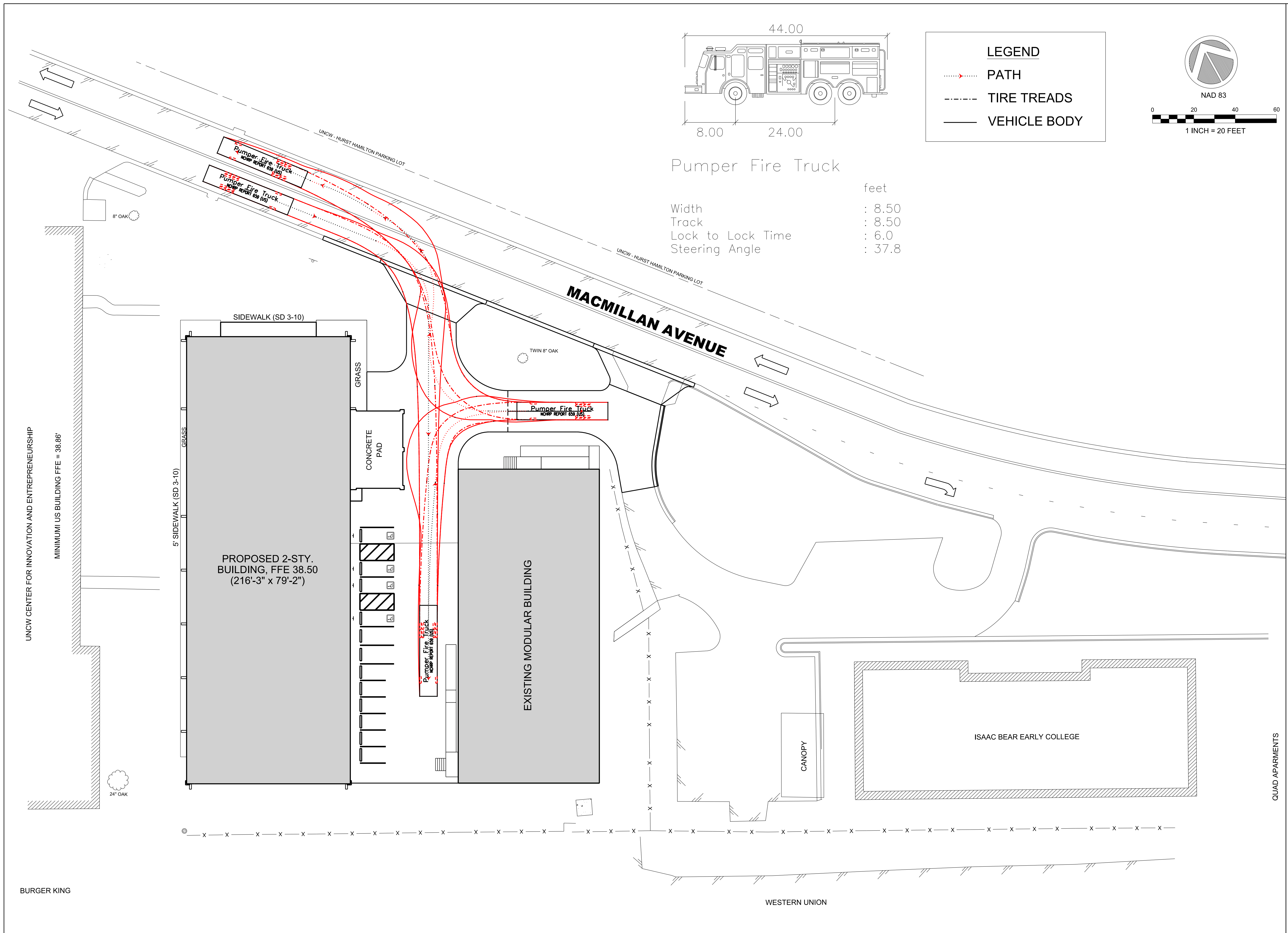
feet

Width : 8.50

Track : 8.50

Lock to Lock Time : 6.0

Steering Angle : 37.8



NO.	SYMBOL	ISSUED FOR CONSTRUCTION	RC
			11/17/17

DESIGNED BY: DATE: 05/15/2018

RC

OWN BY: SCO ID #: 17-18303-01A

DATE: 05/15/18

ISSUED FOR CONSTRUCTION

FILE NAME: CIVIL_C115_Turning_20181022.dgn

ARCH D: AS SHOWN

PLANT DATE: 05/15/18

PLANT SCALE: AS SHOWN

PLANT DATE: 05/15/18

QUAD APARTMENTS

ADMINISTRATIVE ANNEX BUILDING

UNIVERSITY OF NORTH CAROLINA - WILMINGTON

622 MACMILLAN AVENUE, WILMINGTON, NC

TURNING MOVEMENTS

PLATE REFERENCE NUMBER

C-115

SHEET

BURGER KING

WESTERN UNION

QUAD APARTMENTS

UNCW CENTER FOR INNOVATION AND ENTREPRENEURSHIP

MINIMUM US BUILDING FFE = 38.86'

5' SIDEWALK (SD 3-10)

GRASS

CONCRETE PAD

PROPOSED 2-STY. BUILDING, FFE 38.50 (216'-3" x 79'-2")

EXISTING MODULAR BUILDING

MACMILLAN AVENUE

ISAAC BEAR EARLY COLLEGE

CANOPY

CONCRETE PAD

PROPOSED 2-STY. BUILDING, FFE 38.50 (216'-3" x 79'-2")

5' SIDEWALK (SD 3-10)

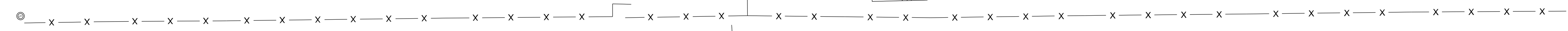
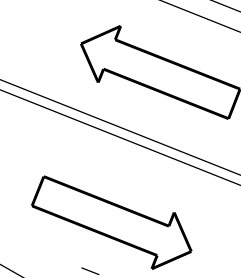
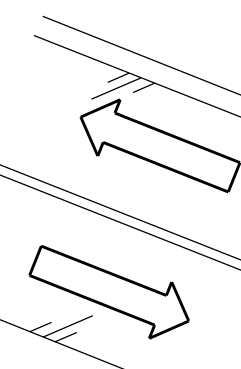
24" OAK

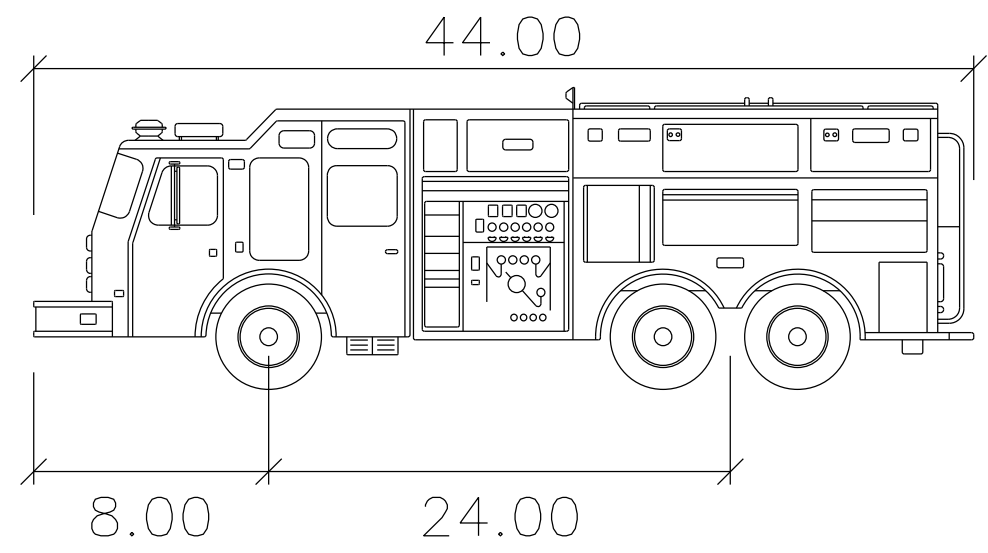
8" OAK

TWIN 8" OAK

UNCW - HURST HAMILTON PARKING LOT

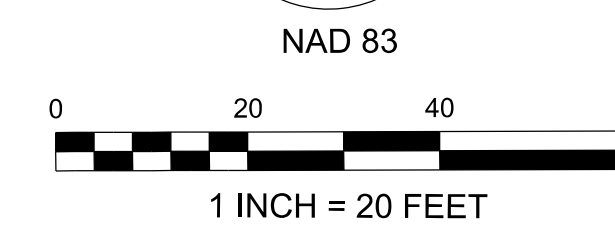
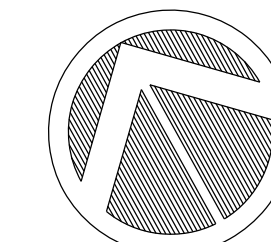
UNCW - HURST HAMILTON PARKING LOT





LEGEND

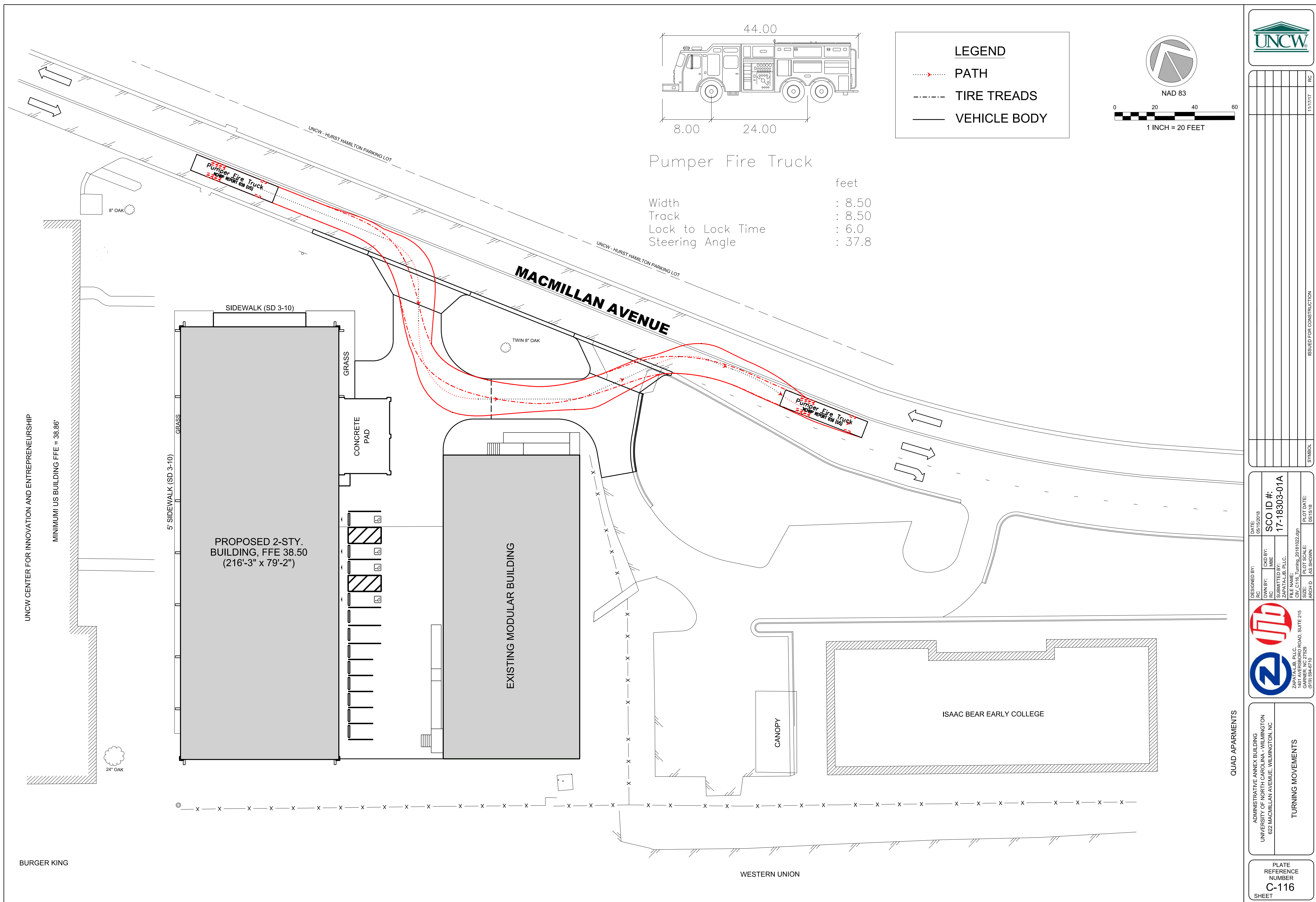
- PATH
- - - - - TIRE TREADS
- VEHICLE BODY



Pumper Fire Truck

Width	:	8.50
Track	:	8.50
Lock to Lock Time	:	6.0
Steering Angle	:	37.8

feet



NO.	REVISION	DATE	BY	RC	SYMBOL

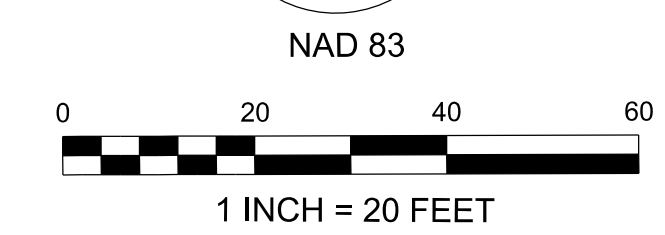
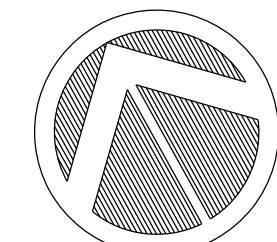
DESIGNED BY: RC
DATE: 05/15/2018
SCO ID #: 17-18303-01A
CHKD BY: MBE
ISSUED FOR: ZAPATA LAB. PLLC.
FILE NAME: CIV.C116_Turning_20181022.dgn
SIZE: AS SHOWN
PLOT DATE: 05/15/18
ARCH D: AS SHOWN

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

QUAD APARTMENTS
 PLATE REFERENCE NUMBER
C-116
 SHEET

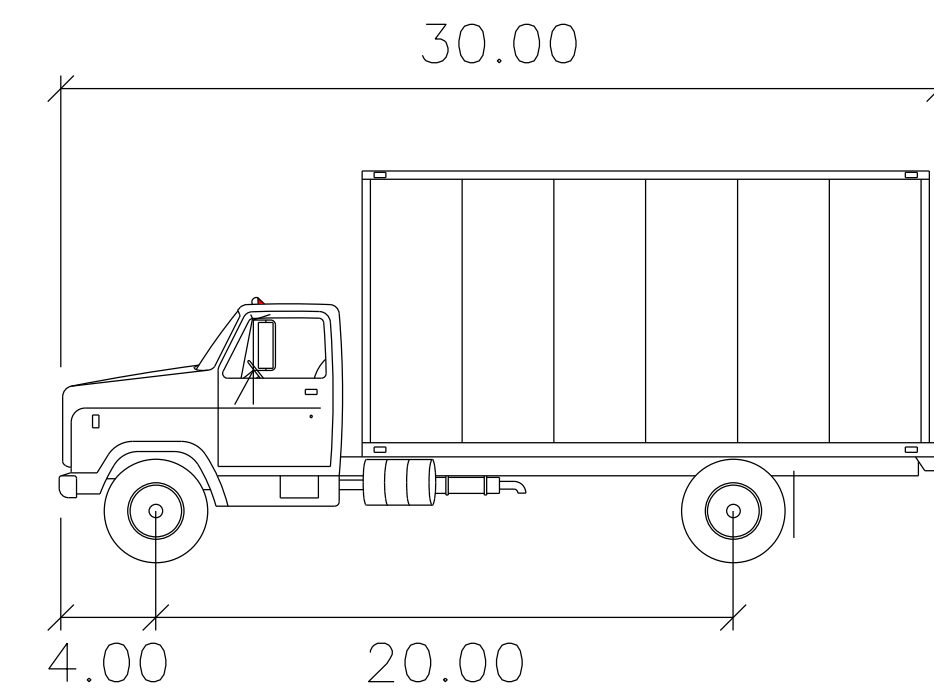
BURGER KING

WESTERN UNION



LEGEND

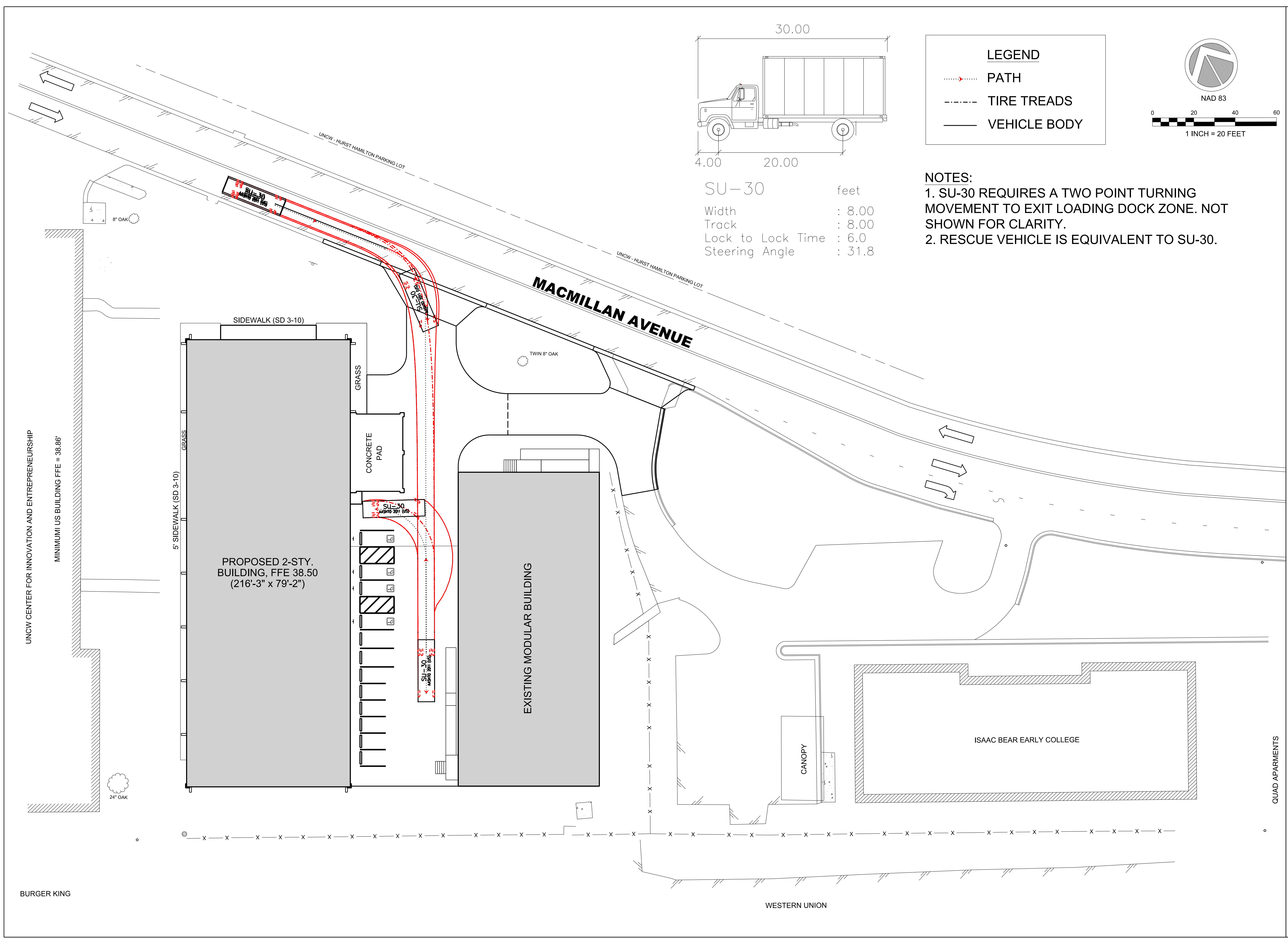
- PATH
- TIRE TREADS
- VEHICLE BODY



SU-30 feet

Width : 8.00
 Track : 8.00
 Lock to Lock Time : 6.0
 Steering Angle : 31.8

- NOTES:**
- SU-30 REQUIRES A TWO POINT TURNING MOVEMENT TO EXIT LOADING DOCK ZONE. NOT SHOWN FOR CLARITY.
 - RESCUE VEHICLE IS EQUIVALENT TO SU-30.



RC	11/17/17	RC
SYMBOL		
ISSUED FOR CONSTRUCTION		

DESIGNED BY: RC
 DATE: 05/15/2018

CHKD BY: RC
 DATE: 05/15/2018

ISSUED BY: ZAPATA, J.B., P.L.L.C.
 FILE NAME: CIV.C117_Turning_20181022.dgn
 ARCH D: AS SHOWN
 PLOT DATE: 05/15/18

SCO ID #: 17-18303-01A

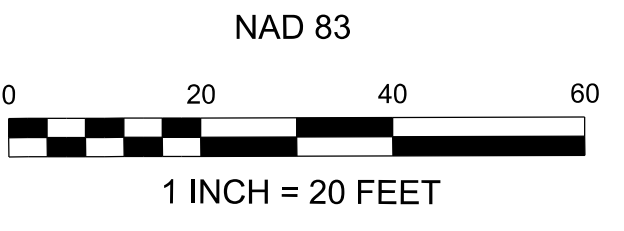
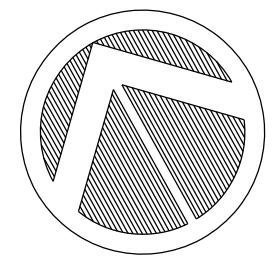
245 N. MARKET BLVD.
 1007 AVERBROOK ROAD, SUITE 215
 GARNER, NC 27529
 (919) 584-6710

QUAD APARTMENTS

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

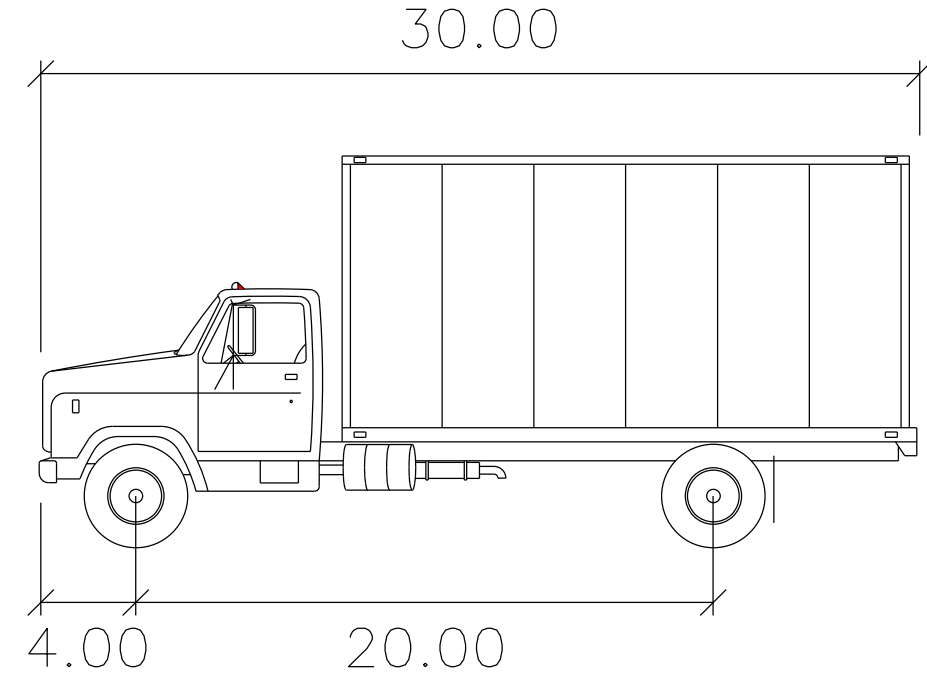
TURNING MOVEMENTS

PLATE REFERENCE NUMBER
C-117
 SHEET



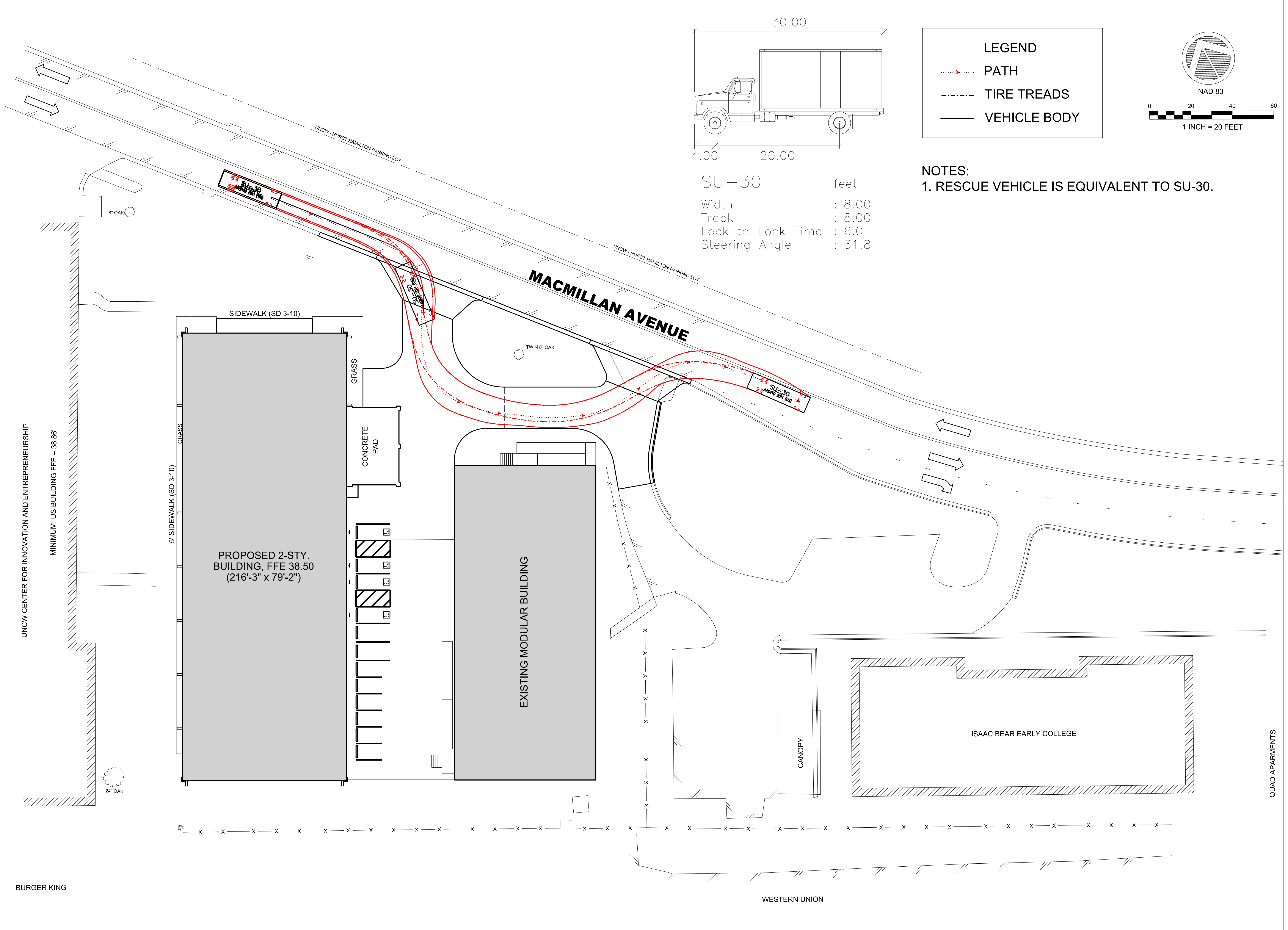
LEGEND

- - - - - PATH
- - - - - TIRE TREADS
- VEHICLE BODY



NOTES:
1. RESCUE VEHICLE IS EQUIVALENT TO SU-30.

SU-30	feet
Width	: 8.00
Track	: 8.00
Lock to Lock Time	: 6.0
Steering Angle	: 31.8



DATE	05/15/2018	SYMBOL	RC
DESIGNED BY	RC	ISSUED FOR CONSTRUCTION	11/17/17
DRAWN BY	RC		
CHECKED BY	RC		
DATE	05/15/2018		
PROJECT NO.	17-18303-01A		
FILE NAME	CIVIL_C118_Turning_20181022.dgn		
ARCH D	AS SHOWN		
SIZE	AS SHOWN		
PLOT DATE	05/15/18		

QUAD APARTMENTS

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

TURNING MOVEMENTS

ZAPATA, LLC
1007 AVERBROOK ROAD, SUITE 215
GARNER, NC 27529
(919) 584-6710

PLATE REFERENCE NUMBER
C-118
SHEET