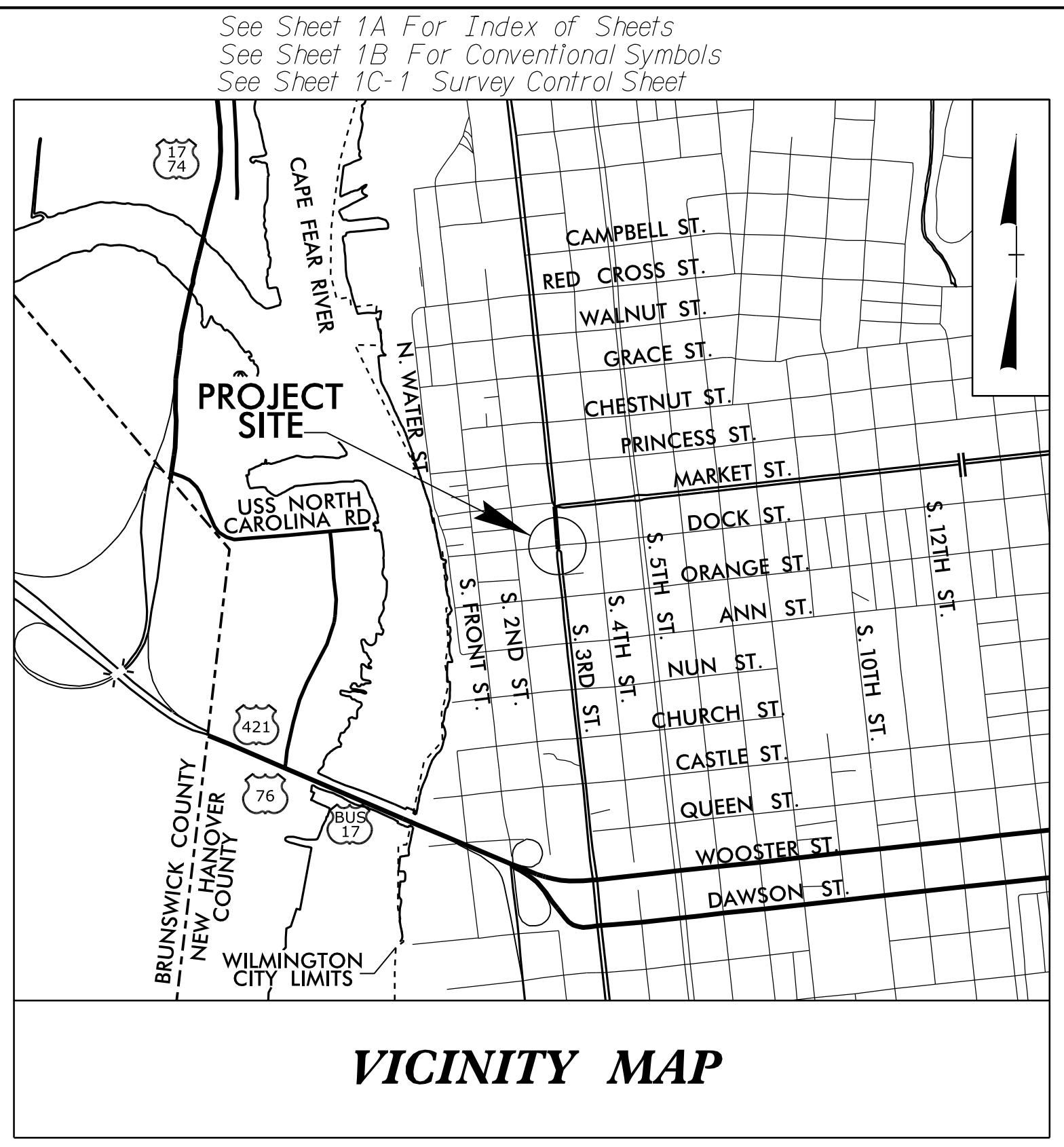


09/08/2019

TIP PROJECT: W-5601DH

CONTRACT: DC00316



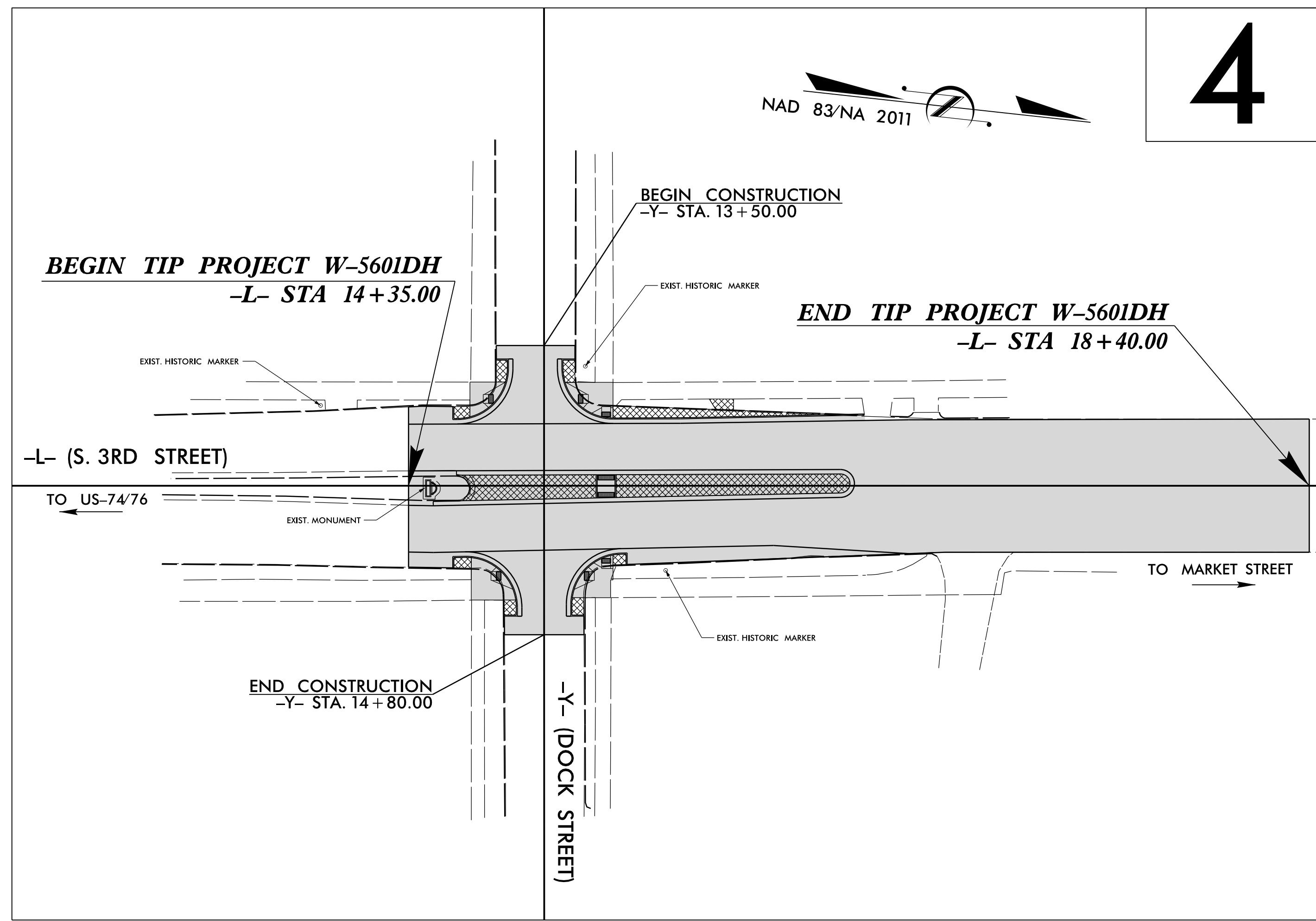
See Sheet 1A For Index of Sheets
See Sheet 1B For Conventional Symbols
See Sheet 1C-1 Survey Control Sheet

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

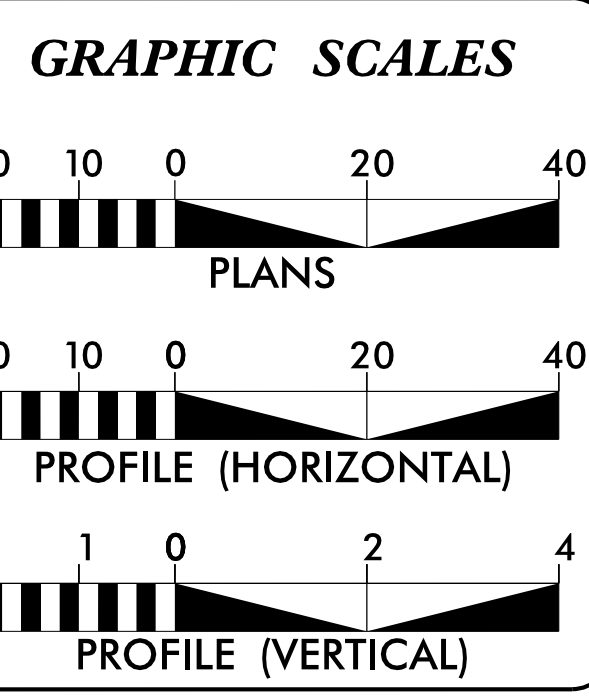
NEW HANOVER COUNTY

LOCATION: INTERSECTION IMPROVEMENT AT US 17 BUSINESS (S. 3RD STREET) AND DOCK STREET IN NEW HANOVER COUNTY
TYPE OF WORK: GRADING, DRAINAGE, PAVING, SIGNING, AND PAVEMENT MARKING

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-5601DH	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
50138.1.113	HSIP-0017 (154)	PE	
50138.2.113	HSIP-0017 (154)	ROW	
50138.3.113	HSIP-0017 (154)	CONST	



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



DESIGN DATA

ADT 2015 = 16,000

K = 10 %
D = 70 %
T = 2 % *
V = 40 MPH

* TTST = 2% DUAL 0%
FUNC CLASS = URBAN ARTERIAL REGIONAL TIER

PROJECT LENGTH

LENGTH OF ROADWAY TIP PROJECT W-5601DH = 0.077 MILES

TOTAL LENGTH OF TIP PROJECT W-5601DH = 0.077 MILES

Prepared for the North Carolina Department of Transportation in the office of:

PARSONS SUNGATE DESIGN GROUP, P.A.

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: JANUARY 8, 2019

LETTING DATE: SEPTEMBER 16, 2021

DAVID L. WILVER, PE
PROJECT ENGINEER

J. MATTHEW PICKENS, PE
PROJECT DESIGN ENGINEER

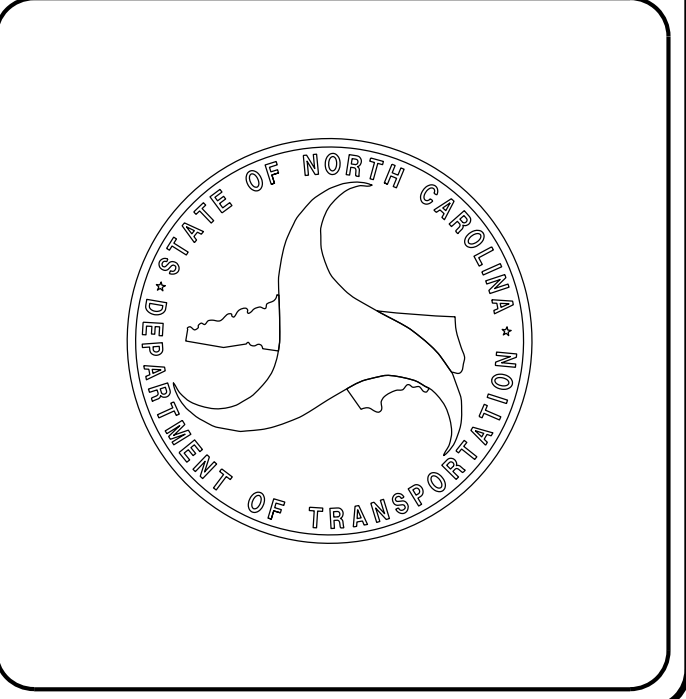
ERIC MURRAY
NCDOT CONTACT

HYDRAULICS ENGINEER

SEAL 026971
8/23/2021
Jeshua G. Dalton, P.E.

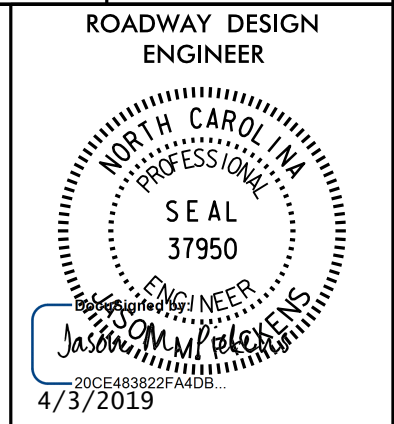
ROADWAY DESIGN ENGINEER

SEAL 37950
8/23/2021
Jason M. Pickens, P.E.



PLANS PREPARED BY :
PARSONS
 RALEIGH, NORTH CAROLINA, (919) 854-1345
 NC LICENSE NO. F-0246
 FOR NORTH CAROLINA DEPT. OF TRANSPORTATION

PROJECT REFERENCE NO. <i>W-5601DH</i>	SHEET NO. <i>1A</i>
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**DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED**

SHEET NUMBER	INDEX OF SHEETS SHEET
1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, AND STANDARD DRAWINGS
1B	CONVENTIONAL SYMBOLS
1C-1	SURVEY CONTROL SHEET
2A-1	PAVEMENT SCHEDULE AND TYPICAL SECTIONS
2B-1	INTERSECTION DETAIL SHEET
2C-1	MODIFIED METHOD III DETAIL
3B-1	ROADWAY SUMMARY SHEET
3D-1	DRAINAGE SUMMARY SHEET
4	PLAN SHEET
5	PROFILE SHEET
TMP-1 THRU TMP-4	TRAFFIC MANAGEMENT PLANS
PMP-1 THRU PMP-4	PAVEMENT MARKING PLANS
EC-1 THRU EC-4	EROSION CONTROL PLANS
SIGN-1 THRU SIGN-4	SIGNING PLANS
X-1A THRU X-1B	CROSS-SECTION TITLE & SUMMARY SHEETS
X-1 THRU X-3	CROSS-SECTIONS

GENERAL NOTES:

2018 SPECIFICATIONS
 EFFECTIVE: 01-16-2018
 REVISED:

GRADING AND SURFACING OR RESURFACING AND WIDENING:

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. WHERE NO GRADE LINES ARE SHOWN, THE PROFILES SHOWN DENOTE THE TOP ELEVATION OF THE EXISTING PAVEMENT ALONG THE CENTER LINE OF SURVEY ON WHICH THE PROPOSED RESURFACING WILL BE PLACED. GRADE LINES MAY BE ADJUSTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

CLEARING:

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY MODIFIED METHOD III.

SIDE ROADS:

THE CONTRACTOR WILL BE REQUIRED TO DO ALL NECESSARY WORK TO PROVIDE SUITABLE CONNECTIONS WITH ALL ROADS, STREETS, AND DRIVES ENTERING THIS PROJECT. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PARTICULAR ITEMS INVOLVED.

UTILITIES:

UTILITY OWNERS ON THIS PROJECT ARE POWER - DUKE ENERGY,
 WATER/SEWER - CAPE FEAR PUBLIC UTILITY AUTHORITY, GAS - PIEDMONT NATURAL GAS COMPANY, TELECOM - SPECTRUM/CHARTER, TELECOM - CENTURYLINK/LEVEL 3,
 TELECOM - CROWN CASTLE, TELECOM - MCNC, TRAFFIC/FIBER - CITY OF WILMINGTON

CURB RAMPS

CURB RAMPS ARE SHOWN ON THE PLANS AT APPROXIMATE LOCATIONS.
 CONSTRUCT ALL CURB RAMPS ACCORDANCE WITH STD 848.05 and/or 848.06.

2018 ROADWAY ENGLISH STANDARD DRAWINGS

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - N. C. Department of Transportation - Raleigh, N. C., Dated January, 2018 are applicable to this project and by reference hereby are considered a part of these plans:

STD.NO.	TITLE
DIVISION 2 - EARTHWORK	
200.03	Method of Clearing - Modified Method III (See Detail in Lieu of Standard)
225.02	Guide for Grading Subgrade - Secondary and Local
DIVISION 3 - PIPE CULVERTS	
300.01	Method of Pipe Installation
DIVISION 6 - ASPHALT BASES AND PAVEMENTS	
654.01	Pavement Repairs
DIVISION 8 - INCIDENTALS	
840.00	Concrete Base Pad for Drainage Structures
840.01	Brick Catch Basin - 12" thru 54" Pipe
840.02	Concrete Catch Basin - 12" thru 54" Pipe
840.03	Frame, Grates and Hood - for Use on Standard Catch Basin
840.31	Concrete Junction Box - 12" thru 66" Pipe
840.32	Brick Junction Box - 12" thru 66" Pipe
840.34	Traffic Bearing Junction Box - for Use with Pipes 42" and Under
840.54	Manhole Frame and Cover
846.01	Concrete Curb, Gutter and Curb & Gutter
848.01	Concrete Sidewalk
848.05	Curb Ramp - Proposed Curb & Gutter
852.01	Concrete Islands
852.10	Median Construction - with Curb and Gutter

EFF. 01-16-2018
 REV.

STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

12/2/2016

BOUNDARIES AND PROPERTY:

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin	○ EIP
Computed Property Corner	-----
Property Monument	□ ECM
Parcel/Sequence Number	①23
Existing Fence Line	-x-x-x-
Proposed Woven Wire Fence	○
Proposed Chain Link Fence	□
Proposed Barbed Wire Fence	◇
Existing Wetland Boundary	--- WLB ---
Proposed Wetland Boundary	--- WLB ---
Existing Endangered Animal Boundary	--- EAB ---
Existing Endangered Plant Boundary	--- EPB ---
Existing Historic Property Boundary	--- HPB ---
Known Contamination Area: Soil	☠-s-☠
Potential Contamination Area: Soil	☠-s-☠
Known Contamination Area: Water	☠-w-☠
Potential Contamination Area: Water	☠-w-☠
Contaminated Site: Known or Potential	☠?

BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G Tank Cap	○
Sign	○ S
Well	○ W
Small Mine	✕
Foundation	□
Area Outline	□
Cemetery	□
Building	□
School	□
Church	□
Dam	▬

HYDROLOGY:

Stream or Body of Water	-----
Hydro, Pool or Reservoir	□
Jurisdictional Stream	--- JS ---
Buffer Zone 1	--- BZ 1 ---
Buffer Zone 2	--- BZ 2 ---
Flow Arrow	←
Disappearing Stream	→
Spring	○
Wetland	▽
Proposed Lateral, Tail, Head Ditch	▬
False Sump	▽

RAILROADS:

Standard Gauge	-----
RR Signal Milepost	○ MILEPOST 35
Switch	□ SWITCH
RR Abandoned	-----
RR Dismantled	-----

RIGHT OF WAY & PROJECT CONTROL:

Secondary Horiz and Vert Control Point	◆
Primary Horiz Control Point	○
Primary Horiz and Vert Control Point	◆
Exist Permanent Easement Pin and Cap	◇
New Permanent Easement Pin and Cap	◆
Vertical Benchmark	▲
Existing Right of Way Marker	△
Existing Right of Way Line	-----
New Right of Way Line	○ R W
New Right of Way Line with Pin and Cap	○ R W ▲
New Right of Way Line with Concrete or Granite R/W Marker	▲ R W
New Control of Access Line with Concrete C/A Marker	△ C/A
Existing Control of Access	△ C/A
New Control of Access	△ C/A
Existing Easement Line	--- E ---
New Temporary Construction Easement	--- E ---
New Temporary Drainage Easement	--- TDE ---
New Permanent Drainage Easement	--- PDE ---
New Permanent Drainage / Utility Easement	--- DUE ---
New Permanent Utility Easement	--- PUE ---
New Temporary Utility Easement	--- TUE ---
New Aerial Utility Easement	--- AUE ---

ROADS AND RELATED FEATURES:

Existing Edge of Pavement	-----
Existing Curb	-----
Proposed Slope Stakes Cut	--- C ---
Proposed Slope Stakes Fill	--- F ---
Proposed Curb Ramp	--- CR ---
Existing Metal Guardrail	--- T ---
Proposed Guardrail	--- T ---
Existing Cable Guiderail	--- T ---
Proposed Cable Guiderail	--- T ---
Equality Symbol	⊕
Pavement Removal	▨

VEGETATION:

Single Tree	☼
Single Shrub	☼

Note: Not to Scale *S.U.E. = *Subsurface Utility Engineering*

Hedge	-----
Woods Line	-----
Orchard	☼ ☼ ☼ ☼
Vineyard	□ Vineyard

EXISTING STRUCTURES:

MAJOR:	
Bridge, Tunnel or Box Culvert	CONC
Bridge Wing Wall, Head Wall and End Wall	CONC WW
MINOR:	
Head and End Wall	CONC HW
Pipe Culvert	-----
Footbridge	-----
Drainage Box: Catch Basin, DI or JB	□ CB
Paved Ditch Gutter	-----
Storm Sewer Manhole	○ S
Storm Sewer	--- S ---

UTILITIES:

POWER:	
Existing Power Pole	●
Proposed Power Pole	○
Existing Joint Use Pole	●
Proposed Joint Use Pole	○
Power Manhole	⊕
Power Line Tower	⊠
Power Transformer	⊠
U/G Power Cable Hand Hole	○
H-Frame Pole	●
U/G Power Line LOS B (S.U.E.*)	--- P ---
U/G Power Line LOS C (S.U.E.*)	--- P ---
U/G Power Line LOS D (S.U.E.*)	--- P ---

TELEPHONE:

Existing Telephone Pole	●
Proposed Telephone Pole	○
Telephone Manhole	⊕
Telephone Pedestal	⊠
Telephone Cell Tower	⊠
U/G Telephone Cable Hand Hole	○
U/G Telephone Cable LOS B (S.U.E.*)	--- T ---
U/G Telephone Cable LOS C (S.U.E.*)	--- T ---
U/G Telephone Cable LOS D (S.U.E.*)	--- T ---
U/G Telephone Conduit LOS B (S.U.E.*)	--- TC ---
U/G Telephone Conduit LOS C (S.U.E.*)	--- TC ---
U/G Telephone Conduit LOS D (S.U.E.*)	--- TC ---
U/G Fiber Optics Cable LOS B (S.U.E.*)	--- T FO ---
U/G Fiber Optics Cable LOS C (S.U.E.*)	--- T FO ---
U/G Fiber Optics Cable LOS D (S.U.E.*)	--- T FO ---

WATER:

Water Manhole	⊕
Water Meter	○
Water Valve	⊗
Water Hydrant	⊕
U/G Water Line LOS B (S.U.E.*)	--- W ---
U/G Water Line LOS C (S.U.E.*)	--- W ---
U/G Water Line LOS D (S.U.E.*)	--- W ---
Above Ground Water Line	--- A/G Water ---

TV:

TV Pedestal	⊕
TV Tower	⊗
U/G TV Cable Hand Hole	○
U/G TV Cable LOS B (S.U.E.*)	--- TV ---
U/G TV Cable LOS C (S.U.E.*)	--- TV ---
U/G TV Cable LOS D (S.U.E.*)	--- TV ---
U/G Fiber Optic Cable LOS B (S.U.E.*)	--- TV FO ---
U/G Fiber Optic Cable LOS C (S.U.E.*)	--- TV FO ---
U/G Fiber Optic Cable LOS D (S.U.E.*)	--- TV FO ---

GAS:

Gas Valve	◇
Gas Meter	⊕
U/G Gas Line LOS B (S.U.E.*)	--- G ---
U/G Gas Line LOS C (S.U.E.*)	--- G ---
U/G Gas Line LOS D (S.U.E.*)	--- G ---
Above Ground Gas Line	--- A/G Gas ---

SANITARY SEWER:

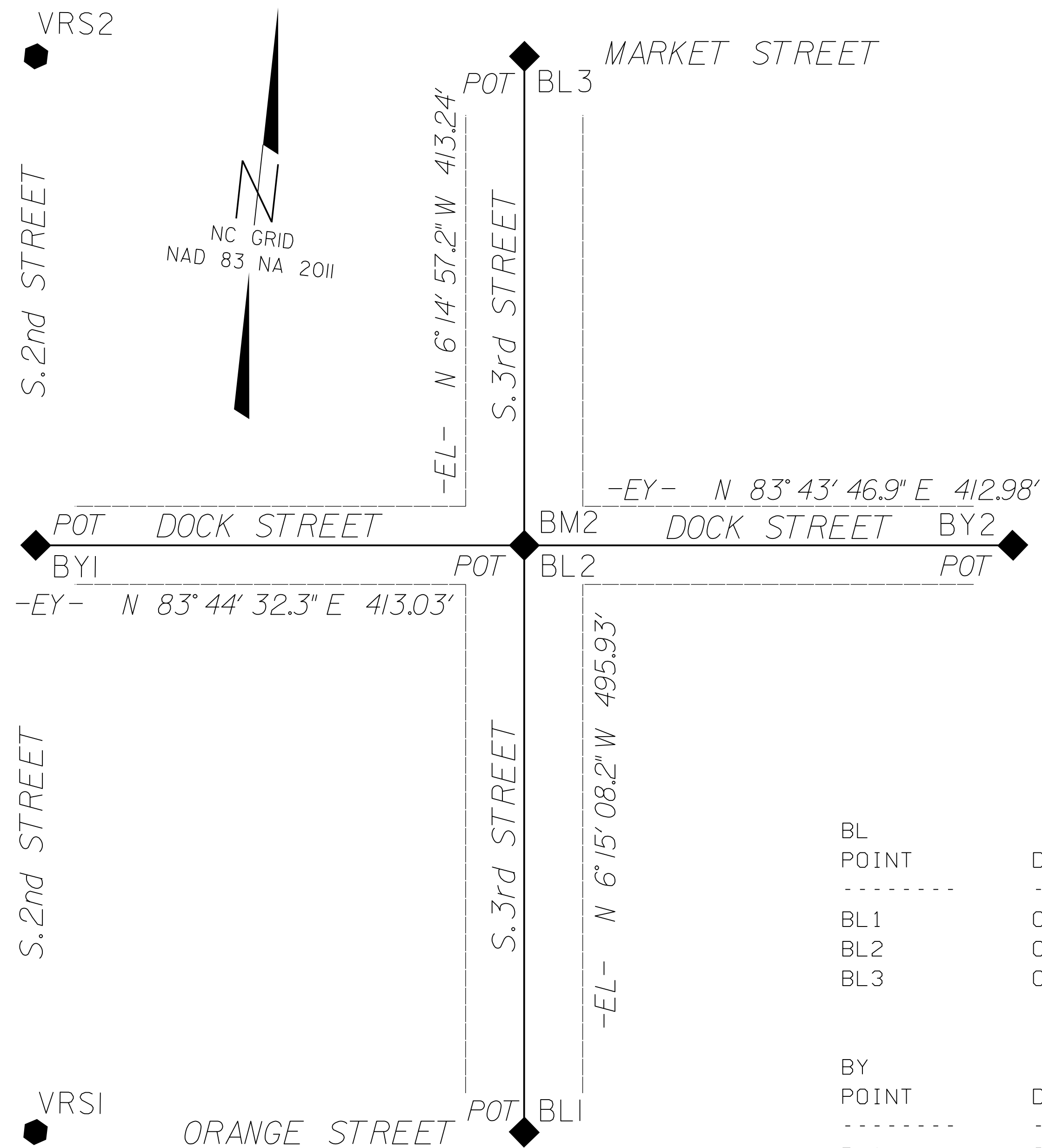
Sanitary Sewer Manhole	⊕
Sanitary Sewer Cleanout	⊕
U/G Sanitary Sewer Line	--- SS ---
Above Ground Sanitary Sewer	--- A/G Sanitary Sewer ---
SS Forced Main Line LOS B (S.U.E.*)	--- FSS ---
SS Forced Main Line LOS C (S.U.E.*)	--- FSS ---
SS Forced Main Line LOS D (S.U.E.*)	--- FSS ---

MISCELLANEOUS:

Utility Pole	●
Utility Pole with Base	□
Utility Located Object	○
Utility Traffic Signal Box	⊠
Utility Unknown U/G Line LOS B (S.U.E.*)	--- UTL ---
U/G Tank; Water, Gas, Oil	□
Underground Storage Tank, Approx. Loc.	⊕
A/G Tank; Water, Gas, Oil	□
Geoenvironmental Boring	⊕
U/G Test Hole LOS A (S.U.E.*)	⊕
Abandoned According to Utility Records	AATUR
End of Information	E.O.I.

SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



NC GRID
NAD 83 NA 2011

POINT	N	E	BEARING	DIST
POT	177504.429	2318667.602		
LINE			N 06°15'08.2" W	495.93
POT	177997.410	2318613.592		
LINE			N 06°14'57.2" W	413.24
POT	178408.199	2318568.609		

POINT	N	E	BEARING	DIST
POT	177952.389	2318203.018		
LINE			N 83°44'32.3" E	413.03
POT	177997.410	2318613.592		
LINE			N 83°43'46.9" E	412.98
POT	178042.515	2319024.098		

BL POINT	DESC.	NORTH	EAST	ELEVATION	BL STATION	OFFSET
BL1	C/L STONE MON.	177504.4290	2318667.6020	54.16	5+00.00	0.00
BL2	C/L STONE MON.	177997.4100	2318613.5920	45.84	9+95.93	0.00
BL3	C/L STONE MON.	178408.1990	2318568.6090	28.51	14+09.17	0.00

BY POINT	DESC.	NORTH	EAST	ELEVATION	BY STATION	OFFSET
BY1	C/L STONE MON.	177952.3890	2318203.0180	20.29	5+00.00	0.00
EQBL2	C/L STONE MON.	177997.4100	2318613.5920	45.84	9+13.03	0.00
BY2	C/L STONE MON.	178042.5150	2319024.0980	52.34	13+26.01	0.00

 BMVRS1 ELEVATION = 36.72
 N 177460 E 2318257
 BL STATION 5+00.00 413 LEFT
 TOP OF C/L STONE MON. - S. 2ND ST. & ORANGE ST.

 BM2 ELEVATION = 45.84
 N 177997 E 2318614
 BL STATION 9+95.93 0.00' LEFT
 TOP OF C/L STONE MON. - S. 3RD ST. & DOCK ST.

OTHER CONTROL POINT	DESC.	NORTH	EAST	ELEVATION
VRS1	C/L STONE MON.	177459.5040	2318256.9170	36.72
VRS2	C/L STONE MON.	178363.2810	2318158.1540	16.81

NOTES:

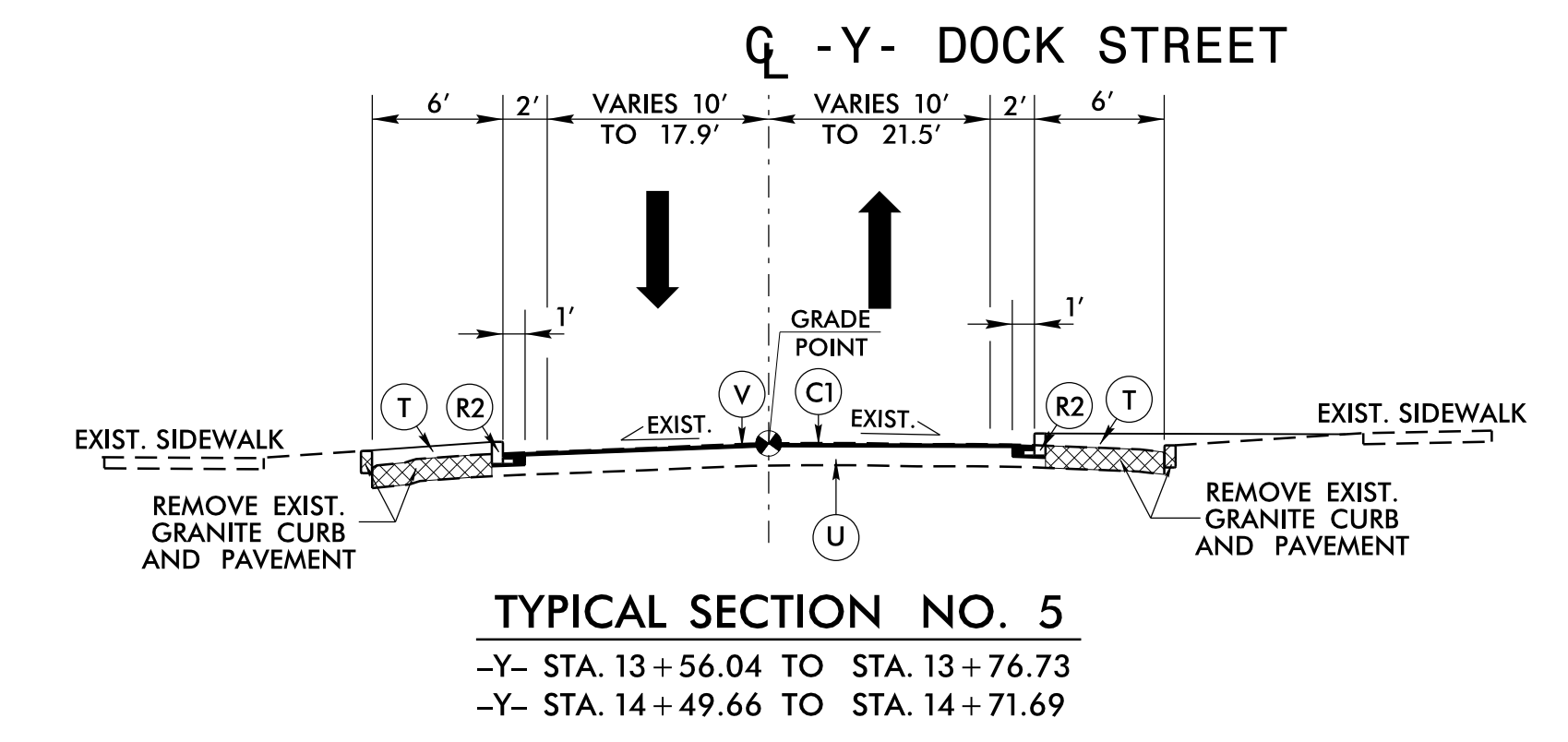
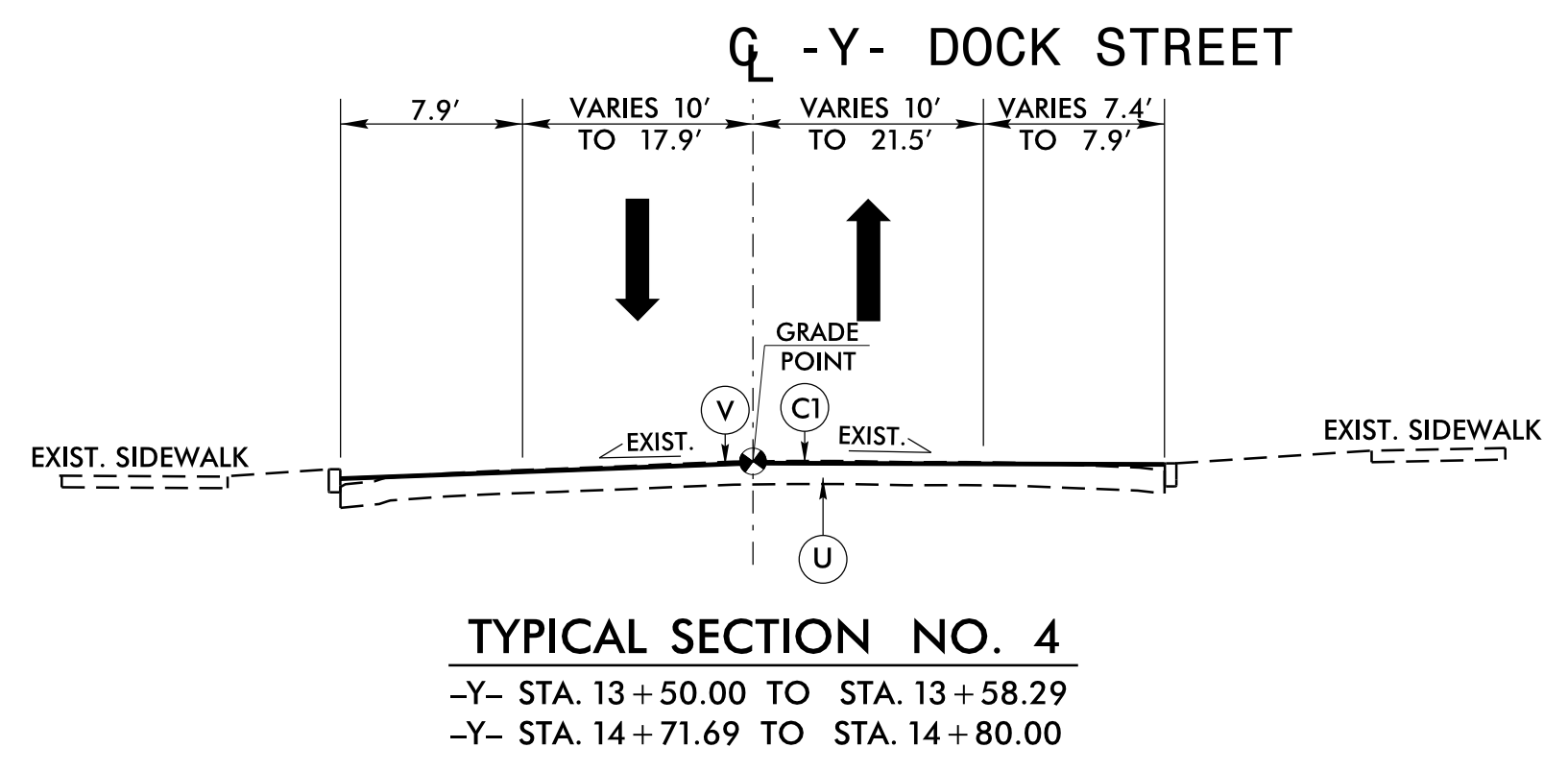
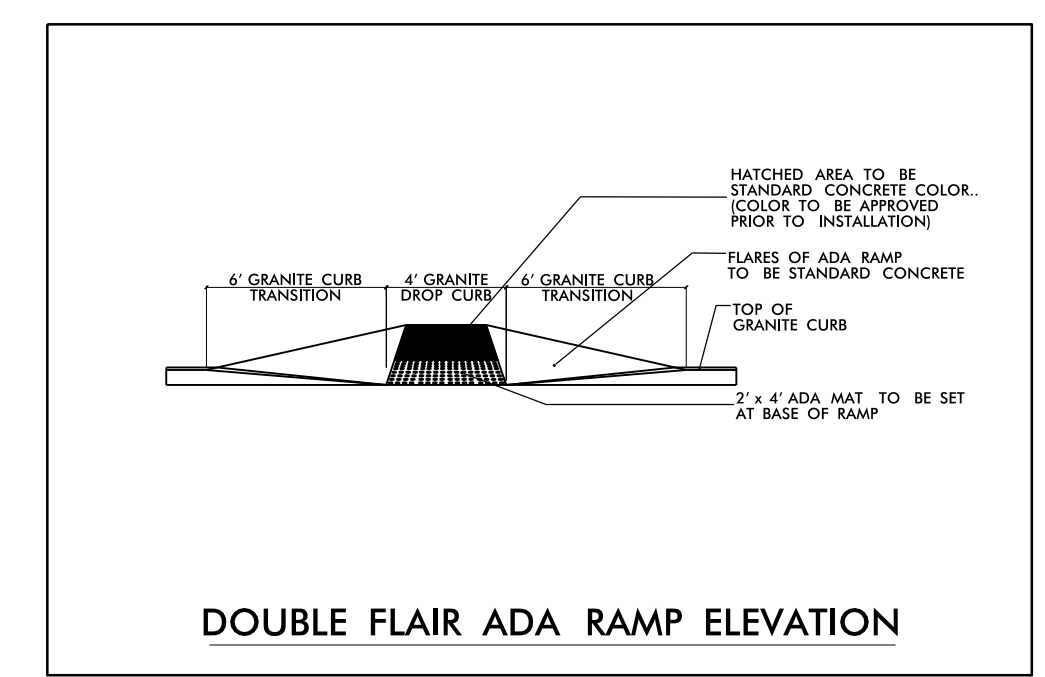
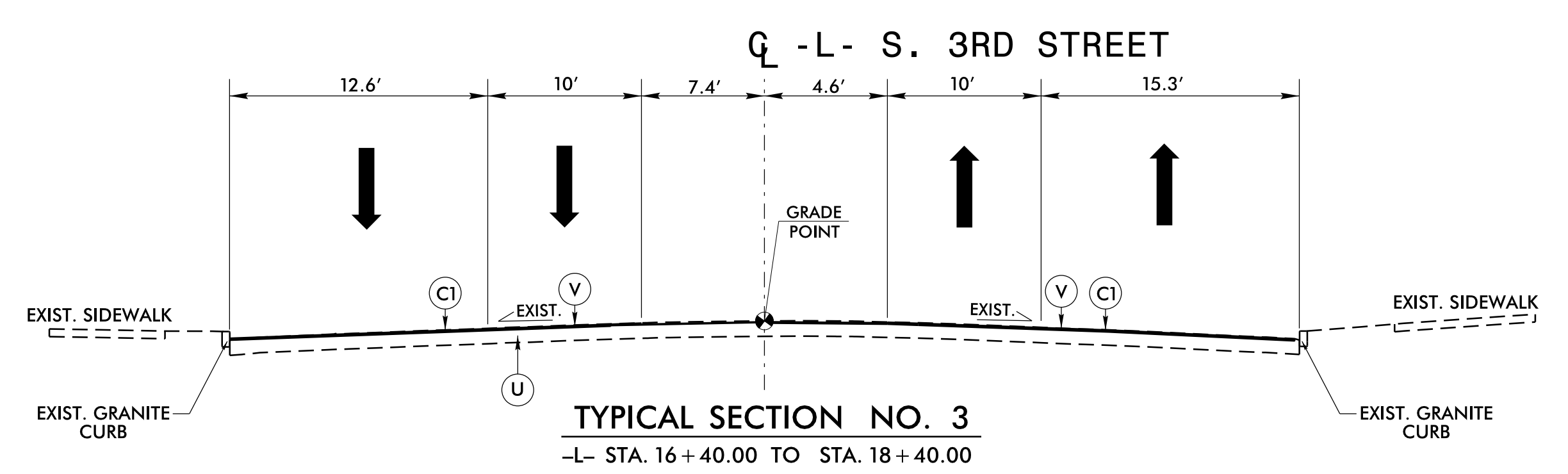
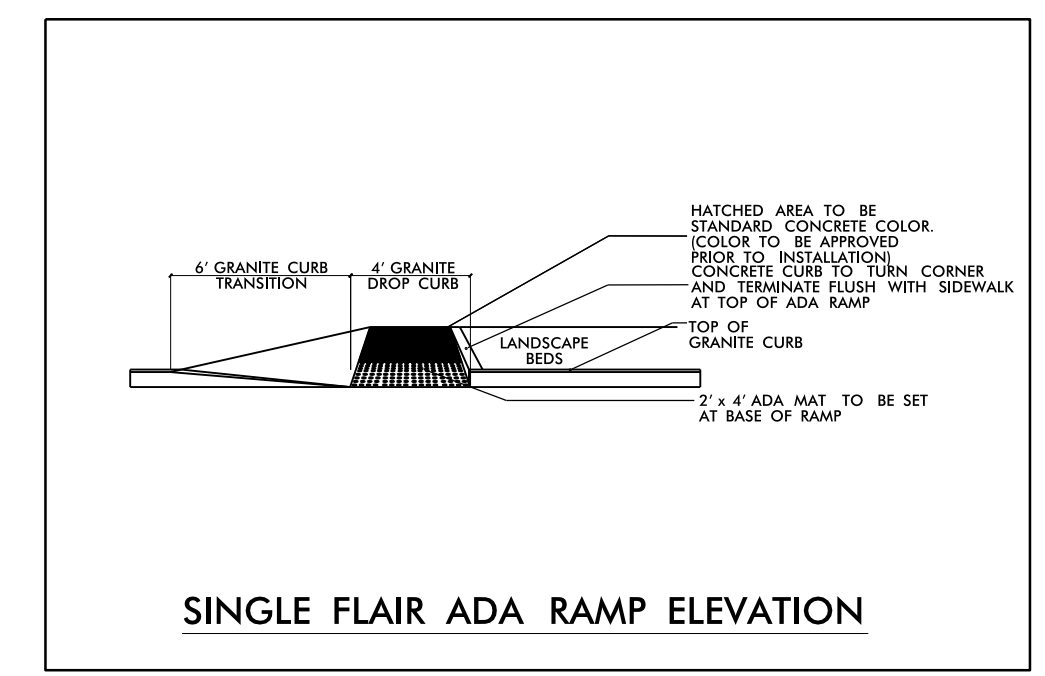
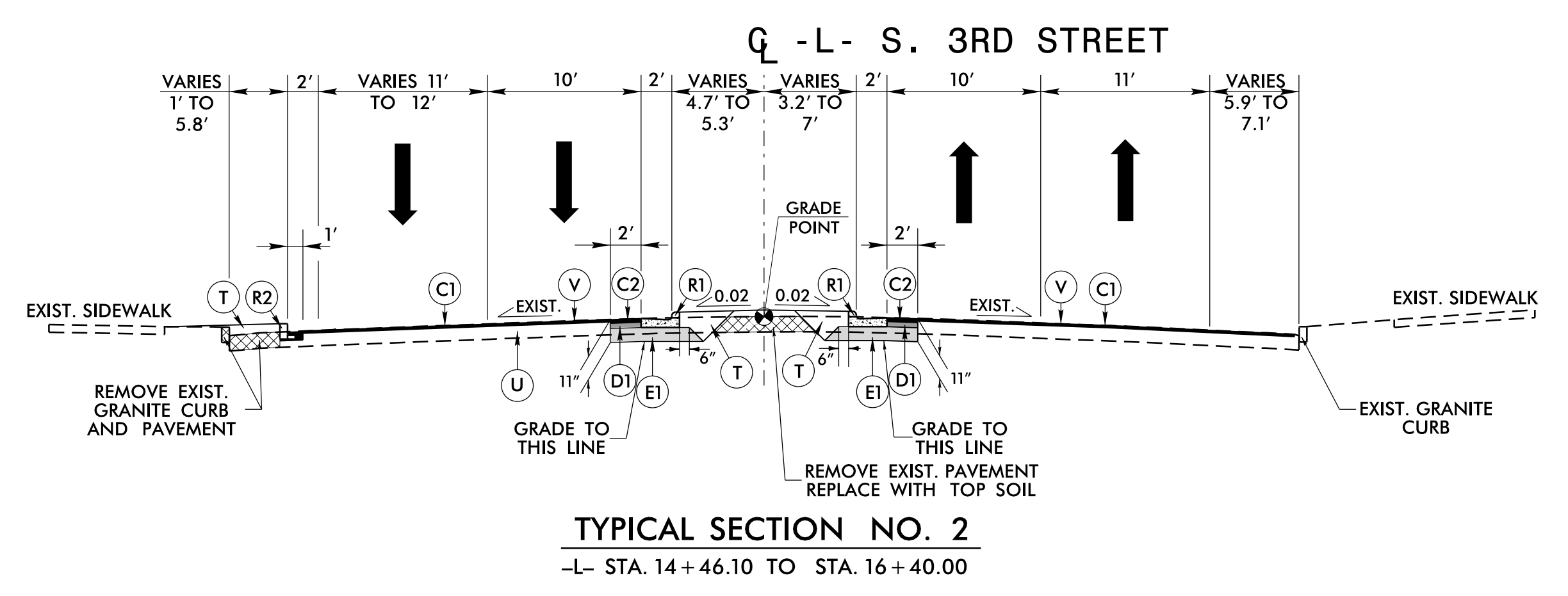
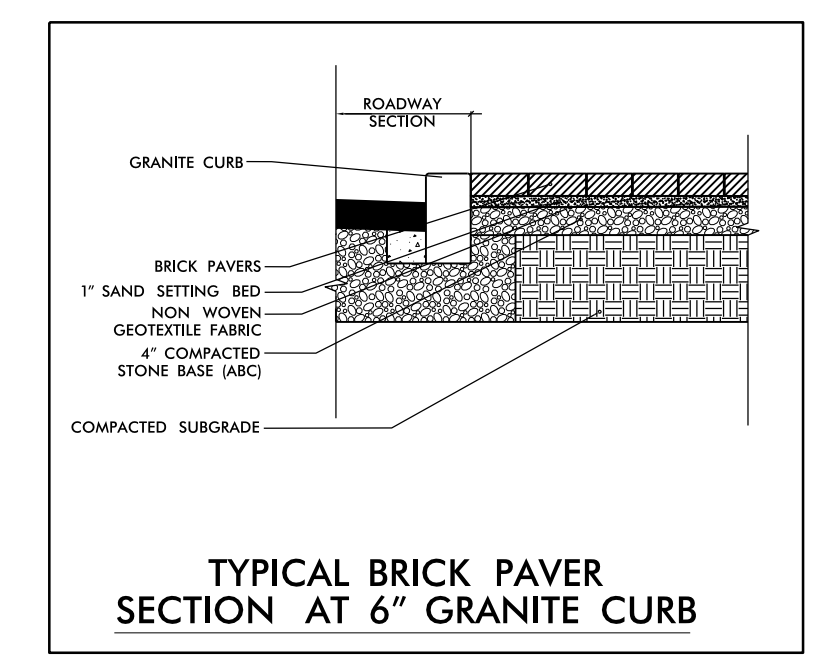
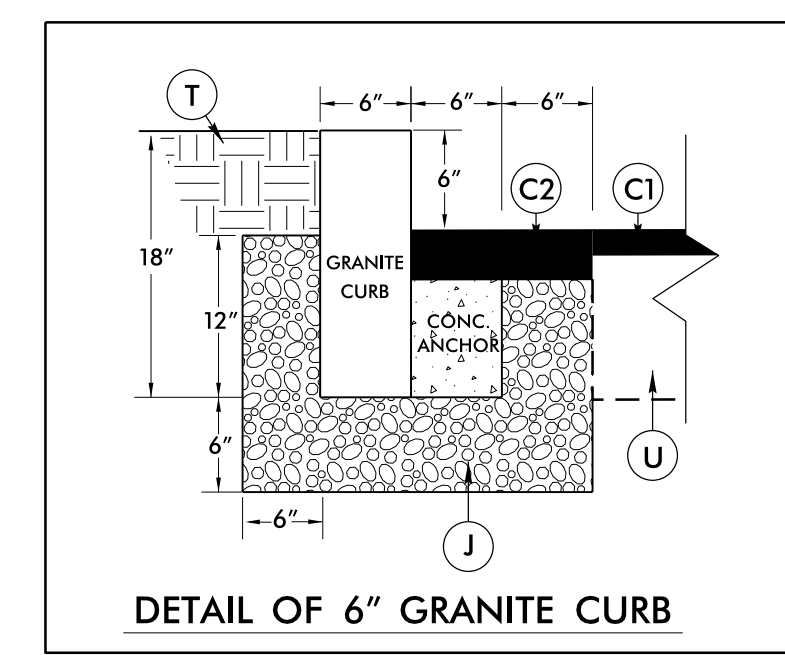
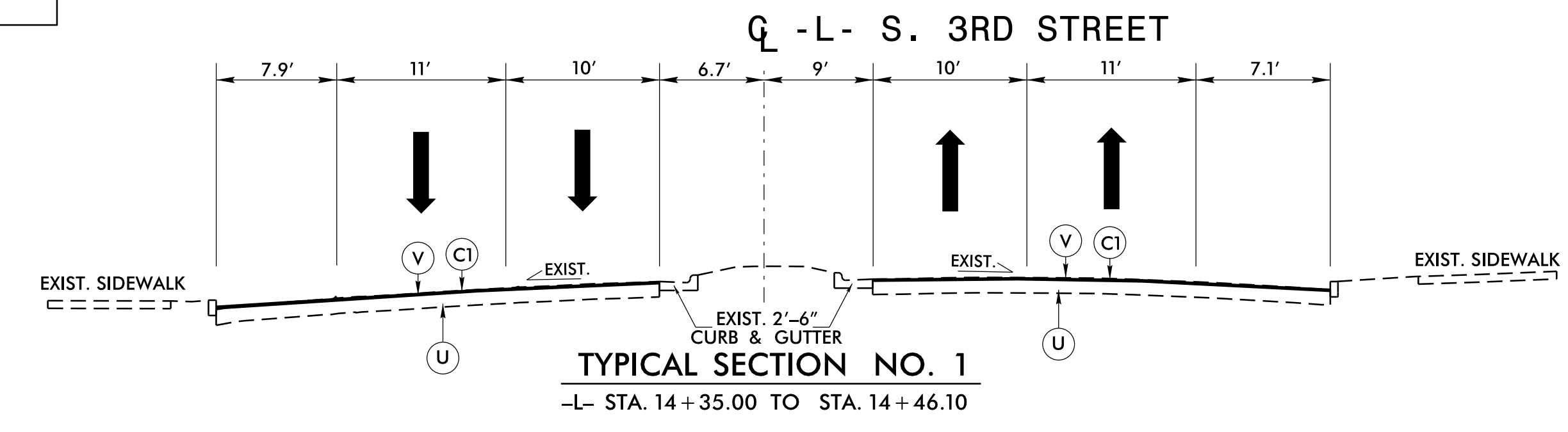
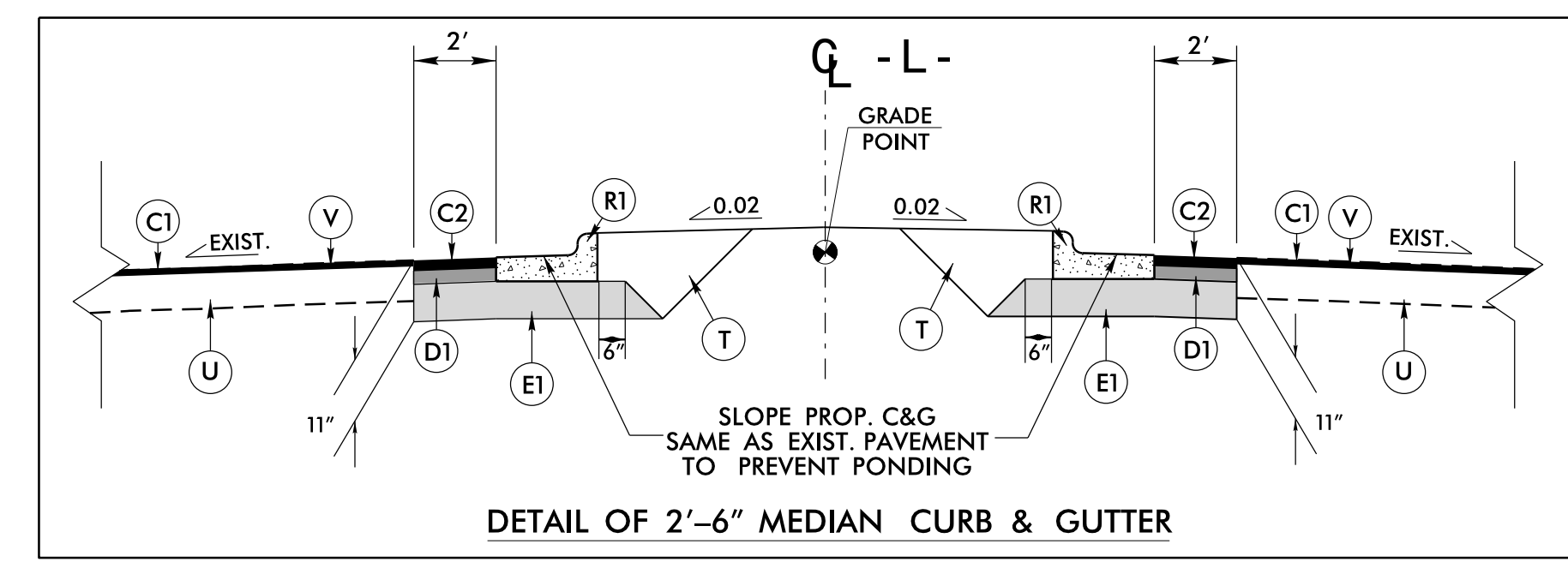
- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
- THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

PLANS PREPARED BY:
PARSONS
 RALEIGH, NORTH CAROLINA, (919) 854-1345
 NC LICENSE NO. F-0246
 FOR NORTH CAROLINA DEPT. OF TRANSPORTATION

PROJECT REFERENCE NO. W-5601DH	SHEET NO. 2A-1
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

FINAL PAVEMENT SCHEDULE					
CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
C1	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.	J	PROP. VAR. DEPTH AGGREGATE BASE COURSE	T	EARTH MATERIAL.
C2	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.	R1	2'-6" CURB AND GUTTER (SEE DETAIL)	U	EXISTING PAVEMENT
D1	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.	R2	6" GRANITE CURB (SEE DETAIL)	V	MILLING ASPHALT PAVEMENT, 1 1/2" DEPTH
E1	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.				

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.



13-MAY-2018 09:58
 J:\W-5601DH\Roadway\p-r-o-j\W-5601DH_RDY_TYP_02A-1.dgn
 \$\$\$\$LISTRNMF\$\$\$\$

5/14/19

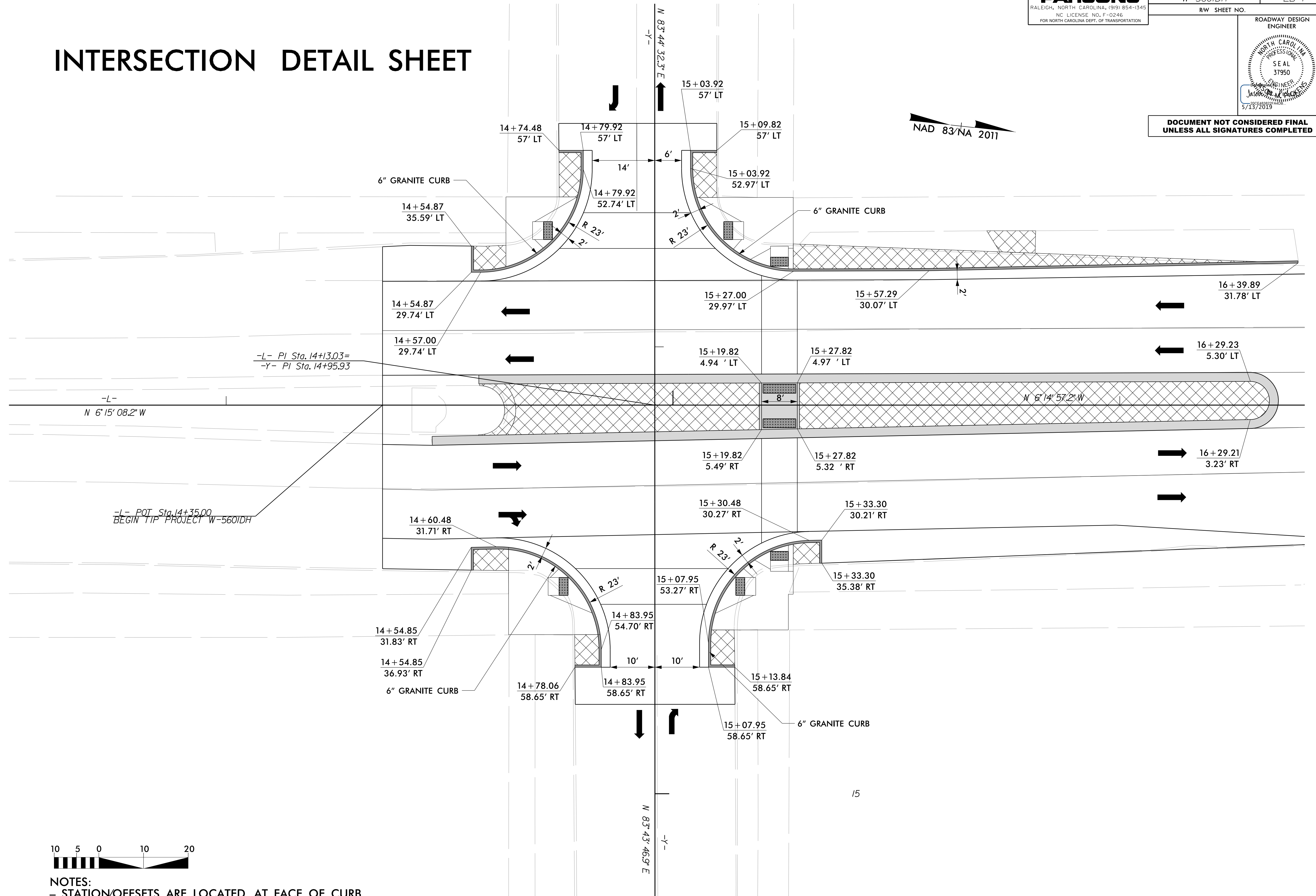
PLANS PREPARED BY: PARSONS <small>RALEIGH, NORTH CAROLINA, (919) 854-1345 NC LICENSE NO. F-0246 FOR NORTH CAROLINA DEPT. OF TRANSPORTATION</small>	PROJECT REFERENCE NO. <i>W-5601DH</i>	SHEET NO. <i>2B-1</i>
	RW SHEET NO.	

ROADWAY DESIGN ENGINEER

Joseph M. Packard
 PROFESSIONAL ENGINEER
 NORTH CAROLINA
 SEAL
 37950
 5/13/2019

**DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED**

INTERSECTION DETAIL SHEET



- NOTES:**
- STATION/OFFSETS ARE LOCATED AT FACE OF CURB
 - 6" GRANITE CURB IS TO BE PLACED 2' OFF EDGE OF TRAVEL

15 MAY 2019 10:06 AM W-5601DH.RDY_PSH_02B-1.dgn

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

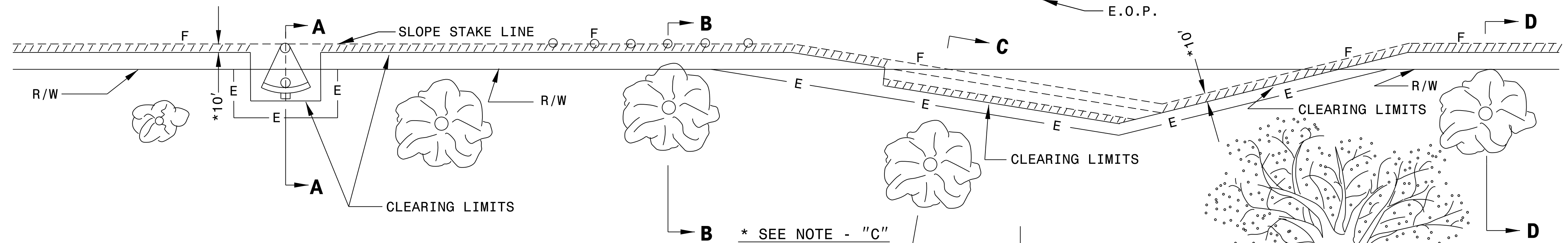
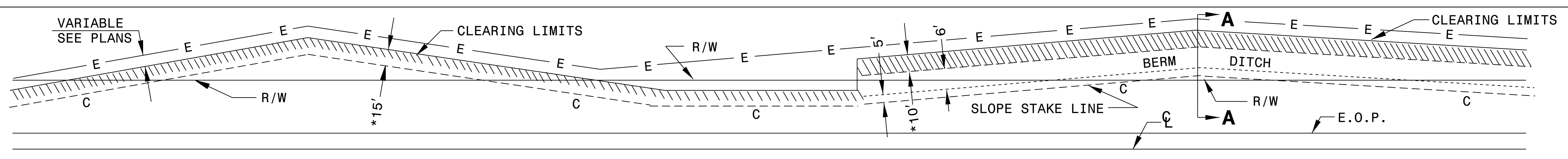
ENGLISH DETAIL DRAWING FOR METHOD OF CLEARING MODIFIED METHOD - III

SHEET 1 OF 1 200D03

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

ENGLISH DETAIL DRAWING FOR METHOD OF CLEARING MODIFIED METHOD - III

SHEET 1 OF 1 200D03



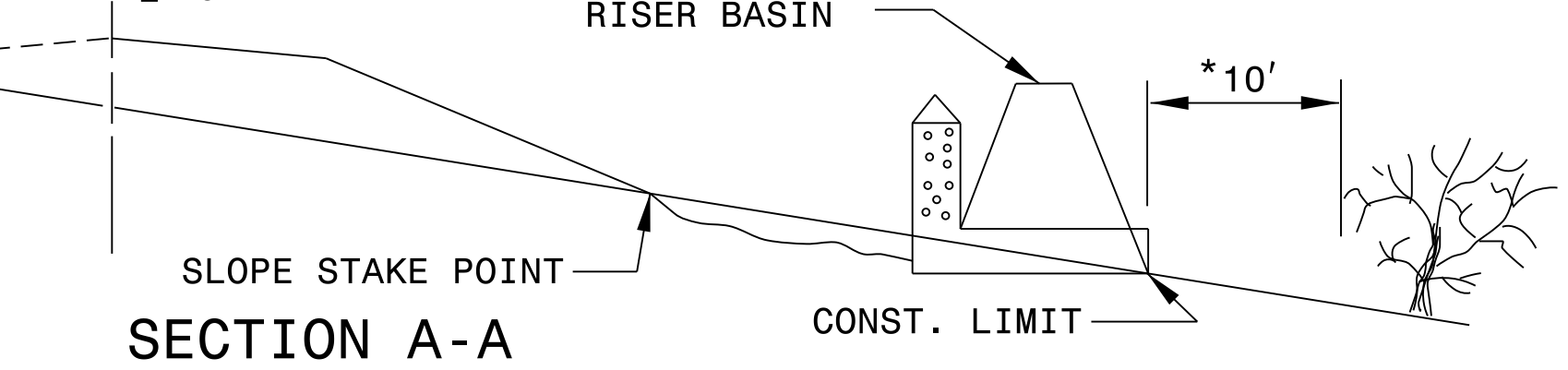
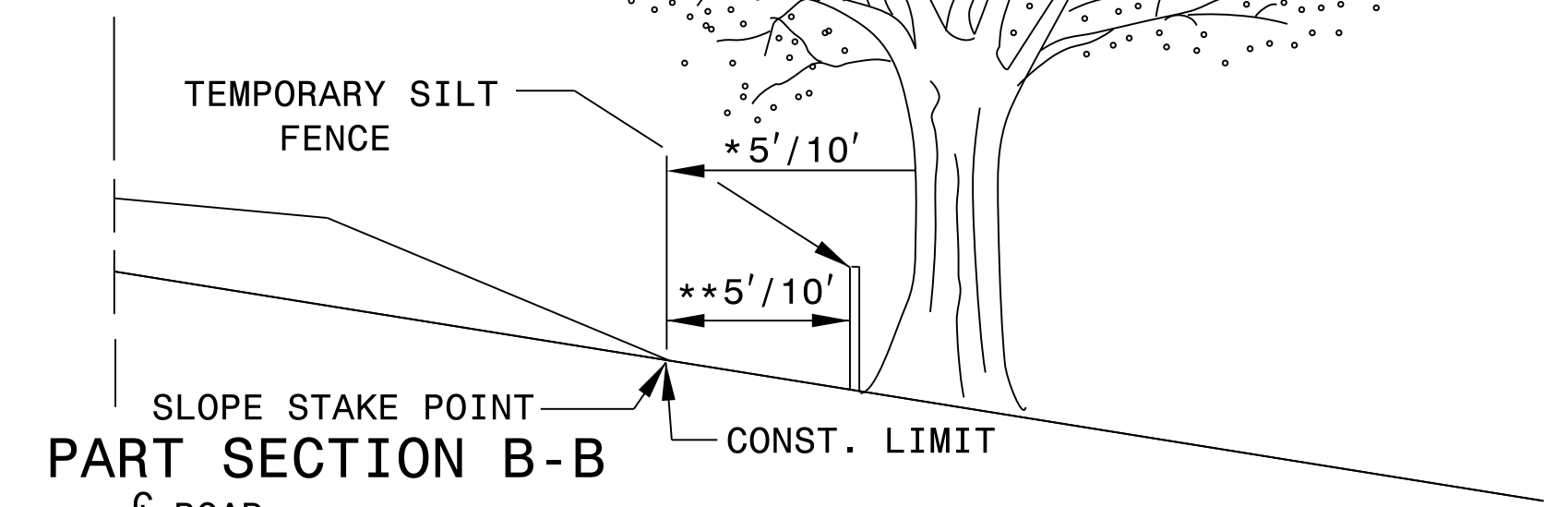
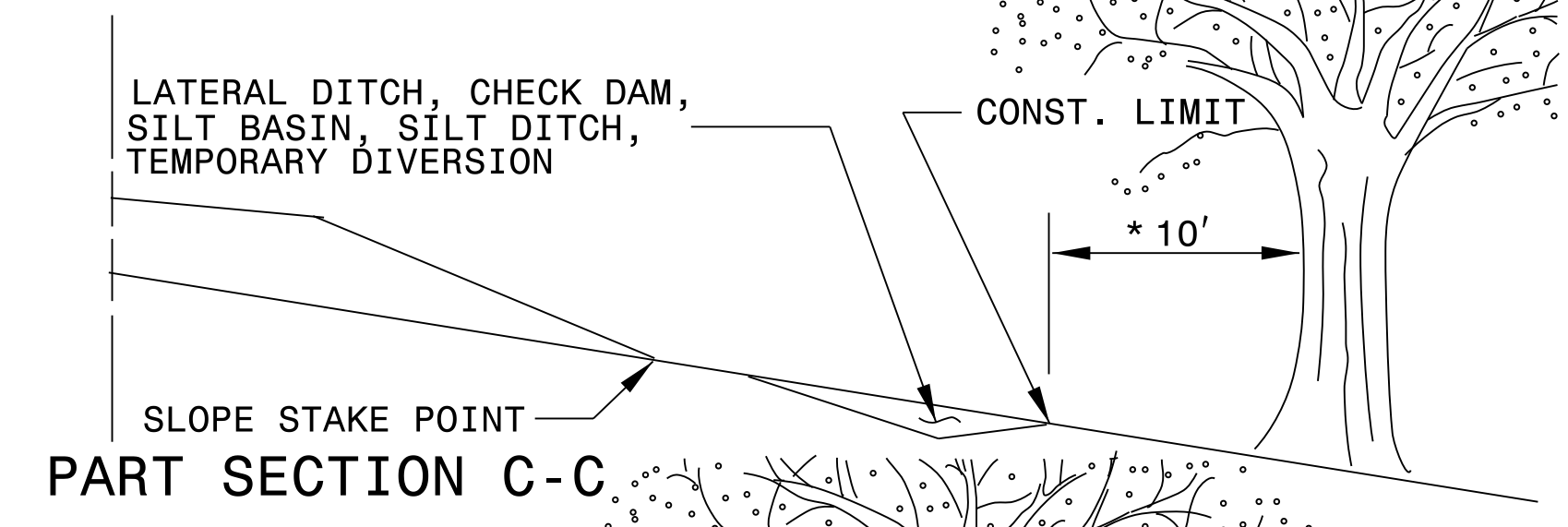
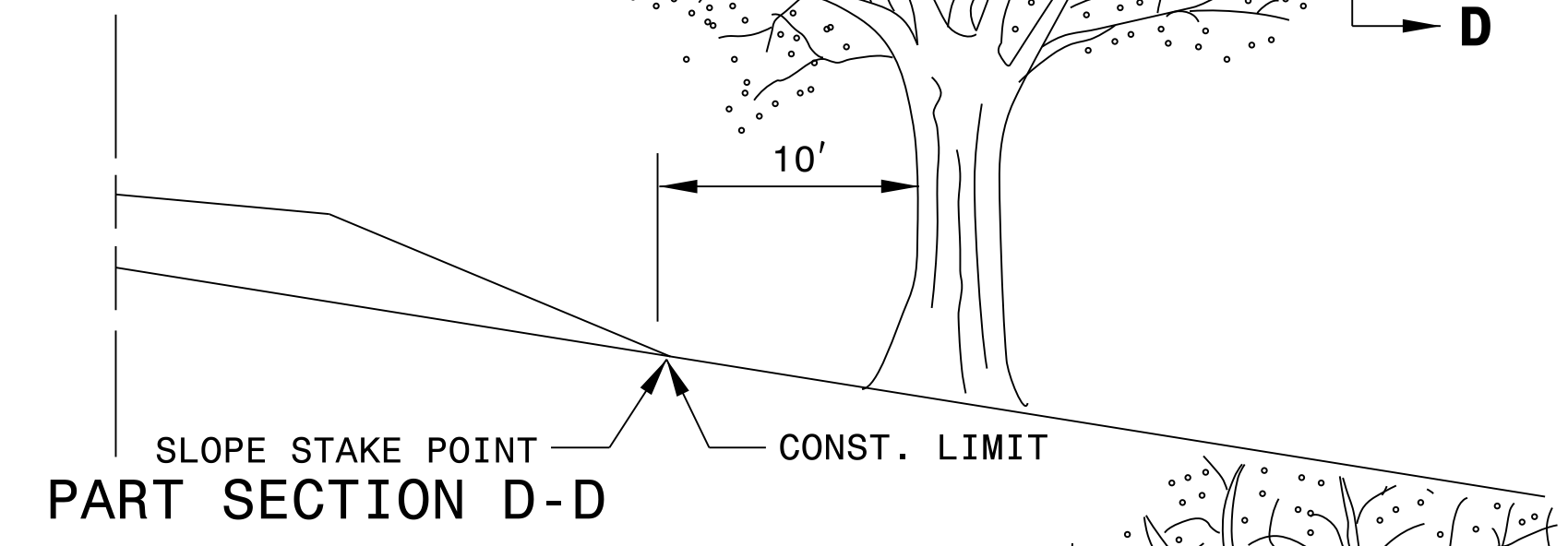
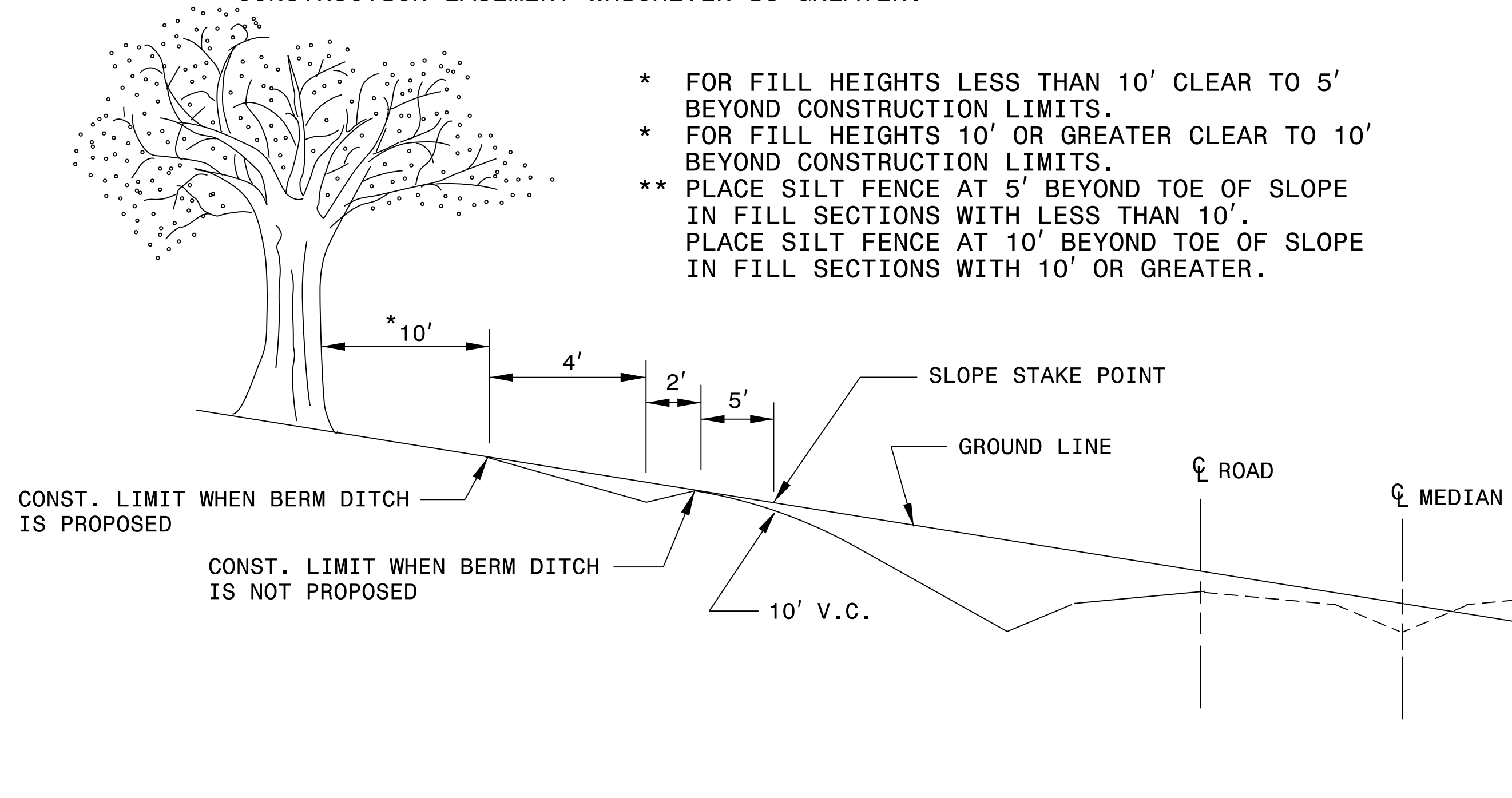
GENERAL NOTES:

1. REMOVE TREES OUTSIDE THE CLEARING LIMIT WHEN, IN THE OPINION OF THE ENGINEER, THE UTILITY OF A TREE WILL BE DESTROYED BY THE CONSTRUCTION OR THE CLEARING OPERATION.
2. CLEAR IN ACCORDANCE WITH THIS STANDARD EXCEPT WHERE ADDITIONAL CLEARING IS REQUIRED FOR SAFETY AS SHOWN ON THE PLANS.

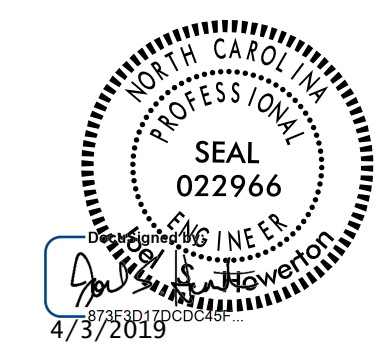
METHOD III CLEARING LIMITS

- (A) CUTS -- CLEAR TO CONSTRUCTION LIMITS.
- (B) FILLS - CLEAR TO 5'/10' * BEYOND CONSTRUCTION LIMITS, UNLESS SPECIFIED OTHERWISE BY WETLAND PERMIT.
- (C) CUTS AND FILLS - WHEN THE CLEARING LIMITS (A AND B) EXCEED THE PROPOSED R/W OR PROPOSED CONSTRUCTION EASEMENTS, THEN CLEAR ONLY TO THE R/W OR CONSTRUCTION EASEMENT WHICHEVER IS GREATER.

- * FOR FILL HEIGHTS LESS THAN 10' CLEAR TO 5' BEYOND CONSTRUCTION LIMITS.
- * FOR FILL HEIGHTS 10' OR GREATER CLEAR TO 10' BEYOND CONSTRUCTION LIMITS.
- ** PLACE SILT FENCE AT 5' BEYOND TOE OF SLOPE IN FILL SECTIONS WITH LESS THAN 10'. PLACE SILT FENCE AT 10' BEYOND TOE OF SLOPE IN FILL SECTIONS WITH 10' OR GREATER.



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CONTRACT STANDARDS AND DEVELOPMENT UNIT
Office 919-707-6950 FAX 919-250-4119

SEE TITLE BLOCK

ORIGINAL BY: T.S.S. DATE: FEB. 2000
 MODIFIED BY: K.A.K. DATE: AUG. 2016
 CHECKED BY: DATE:
 FILE SPEC.: kkempf/english/0200d301.dgn

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DT ALBERT NEW

COMPUTED BY: DWT DATE: 2/25/2019
CHECKED BY: JGD DATE: 2/25/2019

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO. W-5601DH SHEET NO. 3D-1

Note: Invert Elevations indicated are for Bid Purposes only and shall not be used for project construction stakeout.
See "Standard Specifications For Roads and Structures, Section 300-5".

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48 INCHES & UNDER)

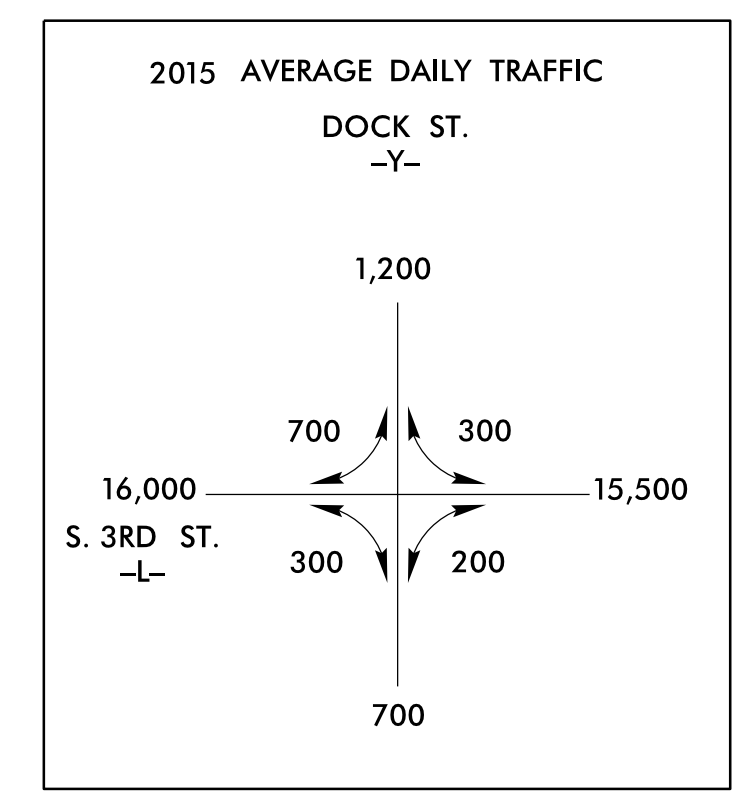
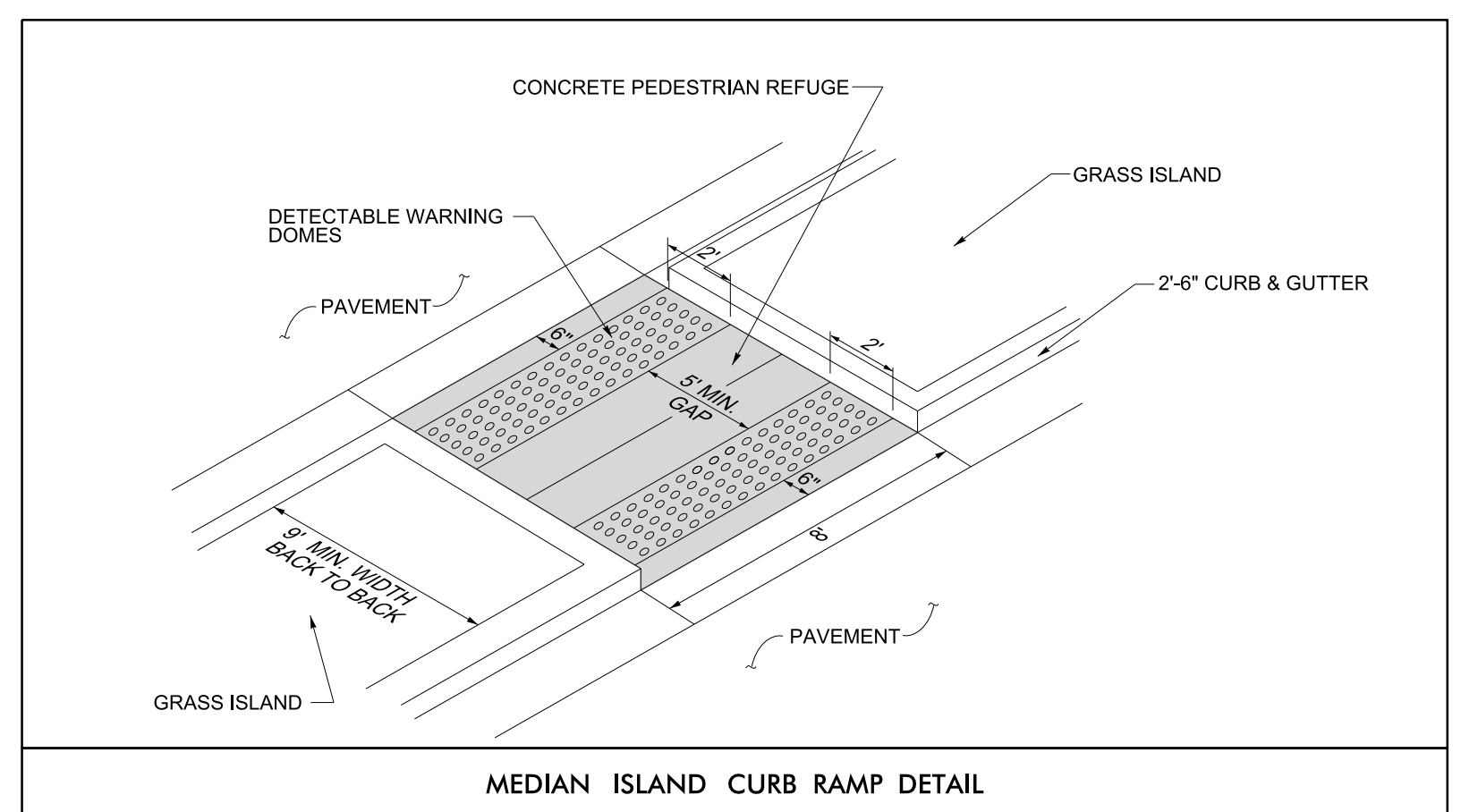
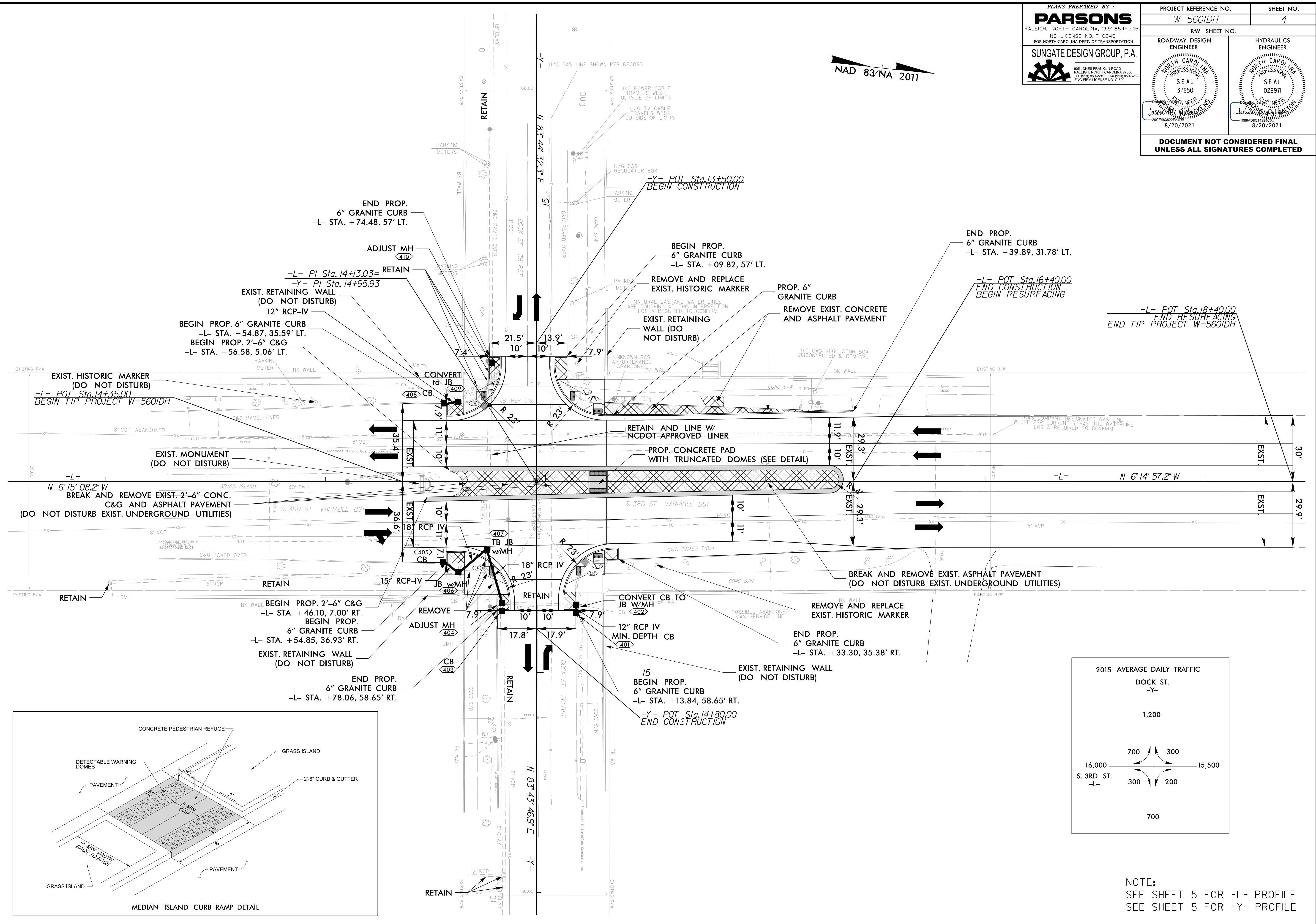
Table with columns: LINE & STATION, OFFSET, STRUCTURE NUMBER, TOP ELEVATION, INVERT ELEVATION, MINIMUM REQUIRED SLOPE, Drainage Pipe (RCP, CSP, CAAP, HDPE, or PVC), R. C. PIPE CLASS III, R. C. PIPE CLASS IV, ENDWALLS, REINFORCED ENDWALLS, MASONRY, QUANTITIES FOR DRAINAGE STRUCTURES, FRAME, GRATES, AND HOOD, CONCRETE TRANSITIONAL SECTION, GRATE TYPE, FLOWABLE FILL, CONCRETE COLLARS CL. "B" STD. 840.72, PIPE REMOVAL, REMARKS. Includes a summary table at the bottom for SHEET TOTALS and PROJECT TOTALS.

PLANS PREPARED BY:

PARSONS
 RALEIGH, NORTH CAROLINA, (919) 854-1345
 NC LICENSE NO. F-0246
 FOR NORTH CAROLINA DEPT. OF TRANSPORTATION

SUNGATE DESIGN GROUP, P.A.
 915 JONES FRANKLIN ROAD
 RALEIGH, NORTH CAROLINA 27606
 TEL: (919) 859-2249 FAX: (919) 859-6258
 ENG. FIRM LICENSE NO. C490

PROJECT REFERENCE NO. <i>W-5601DH</i>	SHEET NO. 4
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
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NOTE:
 SEE SHEET 5 FOR -L- PROFILE
 SEE SHEET 5 FOR -Y- PROFILE

5/28/2019

BMVRSI ELEVATION = 36.72'
N = 177459.50 E = 2318256.91
-L- STATION 10+00.06, 413.14' LT
TOP OF C/L STONE MON. - S. 2ND ST. &
ORANGE ST.

BM #2 ELEVATION = 45.84'
N = 177997.41E = 2318613.59
-L- STATION 14+95.93, 0.00' OFFSET
TOP OF C/L STONE MON. - S. 3RD ST. &
DOCK ST.

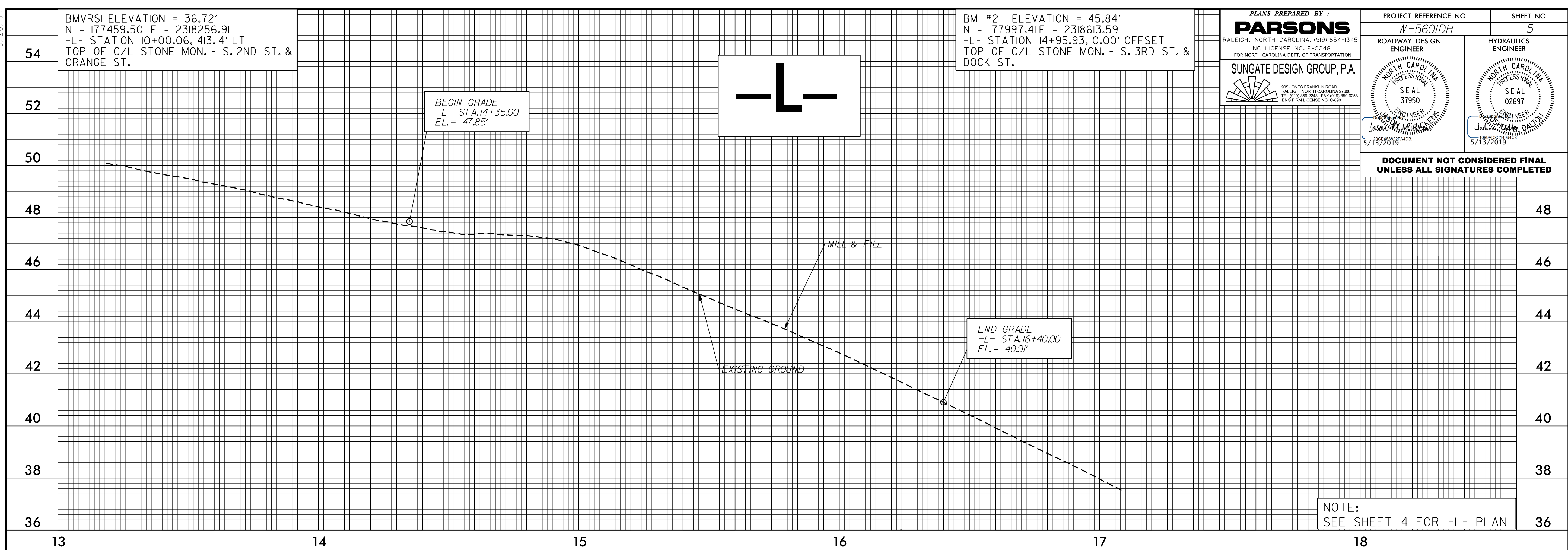
PLANS PREPARED BY :

PARSONS
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NC LICENSE NO. F-0246
FOR NORTH CAROLINA DEPT. OF TRANSPORTATION

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TEL (919) 859-2243 FAX (919) 856-0258
ENG. FROM LICENSE NO. 2490

PROJECT REFERENCE NO. <i>W-5601DH</i>	SHEET NO. <i>5</i>
ROADWAY DESIGN ENGINEER <i>JASON M. BLACK</i>	HYDRAULICS ENGINEER <i>JASON M. BLACK</i>
SEAL 37950 5/13/2019	SEAL 026971 5/13/2019

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NOTE:
SEE SHEET 4 FOR -L- PLAN

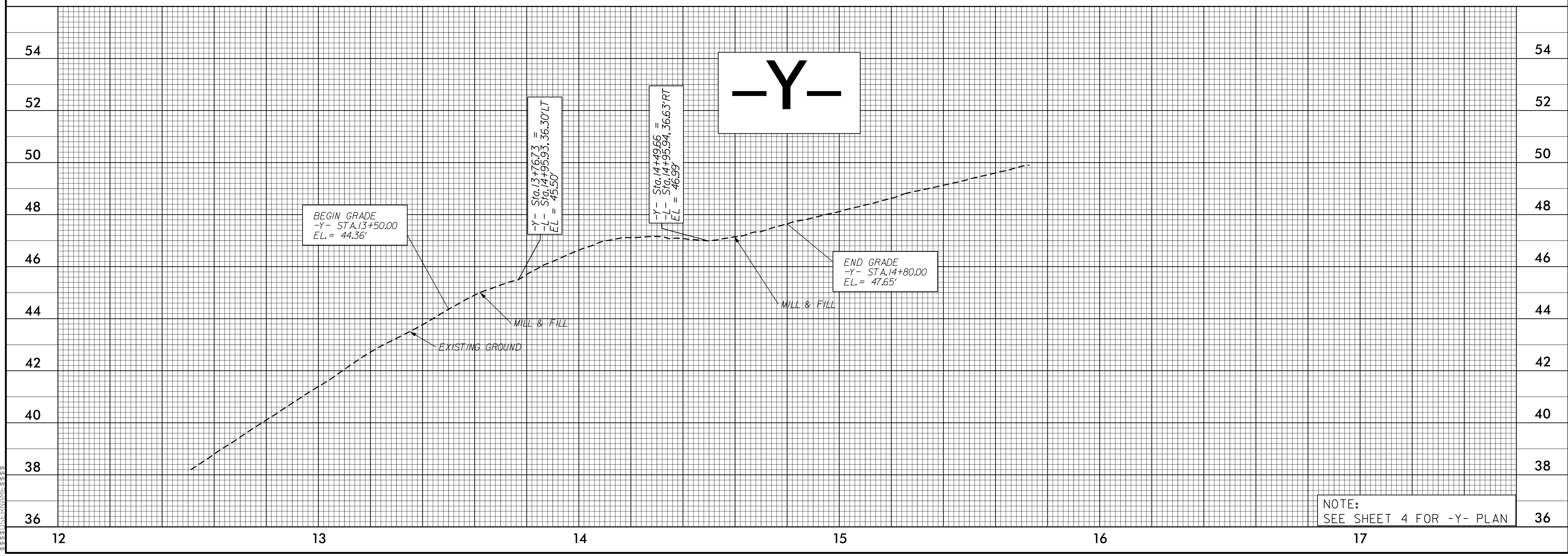
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BEGIN GRADE
-Y- STA. 13+50.00
EL. = 44.36'

-Y- STA. 13+76.73 =
-L- STA. 14+95.93, 36.30' LT
EL. = 45.50

-Y- STA. 14+49.66 =
-L- STA. 14+95.94, 36.63' RT
EL. = 46.99'

-Y-

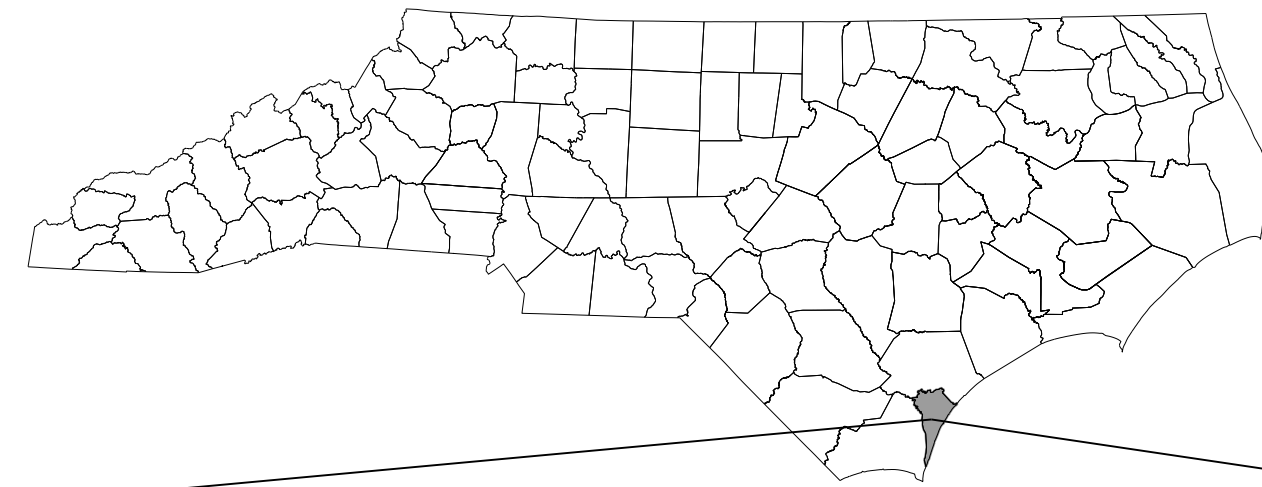


NOTE:
SEE SHEET 4 FOR -Y- PLAN

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

NEW HANOVER COUNTY



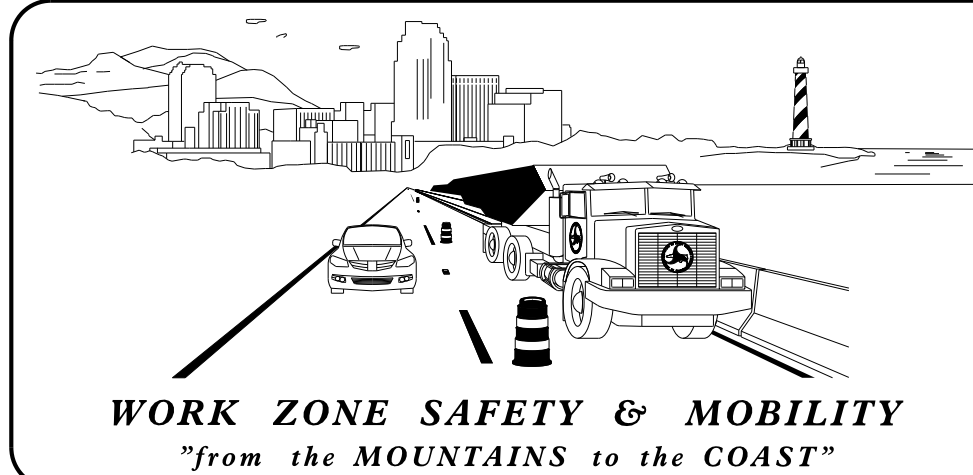
<u>SHEET NO.</u>	<u>TITLE</u>
TMP-1	TITLE SHEET, VICINITY MAP AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, AND LEGEND
TMP-1B	TRANSPORTATION OPERATIONS PLAN: GENERAL NOTES
TMP-2 THRU TMP-2C	TEMPORARY PEDESTRIAN DETOUR DETAILS
TMP-3	PHASING
TMP-4	PHASE 1 DETAIL SHEET

SHEET NO.
TMP-1

W-5601DH

TIP PROJECT:

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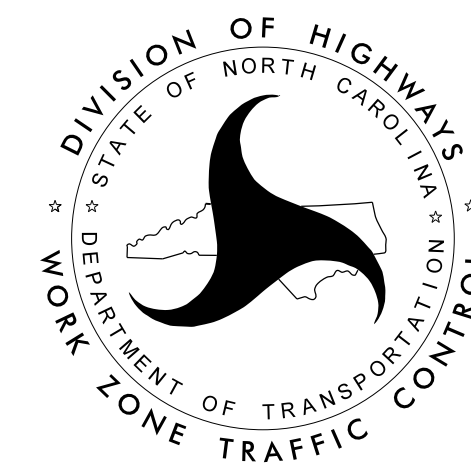
PLANS PREPARED BY:

DAVID L. WILVER, P.E.
PROJECT ENGINEER

J. MATTHEW PICKENS, P.E.
PROJECT DESIGN ENGINEER

NCDOT CONTACT:

ERIC MURRAY

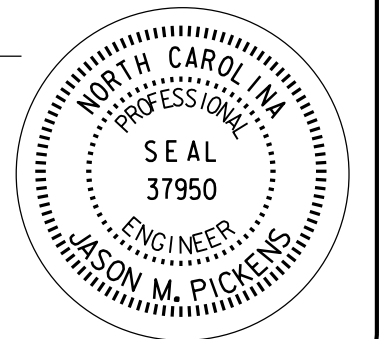


PLANS PREPARED BY:
PARSONS
5540 CENTERVIEW DR., SUITE 217
RALEIGH, NORTH CAROLINA 27606
NC LICENSE NO: F-0246
FOR NORTH CAROLINA DEPT. OF TRANSPORTATION

APPROVED: *Jason M. Pickens*
20CE48822FA4DB

DATE: 4/3/2019

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ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2018 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1101.01	WORK ZONE ADVANCE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW BOARDS
1135.01	CONES
1150.01	FLAGGING DEVICES
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTI-LANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - PERMANENT AND TEMPORARY

LEGEND

GENERAL

- DIRECTION OF TRAFFIC FLOW
- DIRECTION OF PEDESTRIAN TRAFFIC FLOW
- EXIST. PVMT.
- NORTH ARROW
- PROPOSED PVMT.
- WORK AREA
- ASPHALT PAVEMENT MILLING/OVERLAY

TRAFFIC CONTROL DEVICES

- BARRICADE (TYPE III)
- PEDSTRIAN BARRICADE (ADA-COMPLIANT)
- CONE
- DRUM SKINNY DRUM TUBULAR MARKER
- TEMPORARY CRASH CUSHION
- FLASHING ARROW BOARD
- FLAGGER
- LAW ENFORCEMENT
- TRUCK MOUNTED ATTENUATOR (TMA)
- CHANGEABLE MESSAGE SIGN

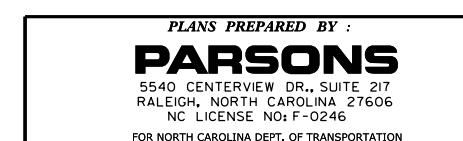
TEMPORARY SIGNING

- PORTABLE SIGN
- STATIONARY SIGN
- STATIONARY OR PORTABLE SIGN

PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

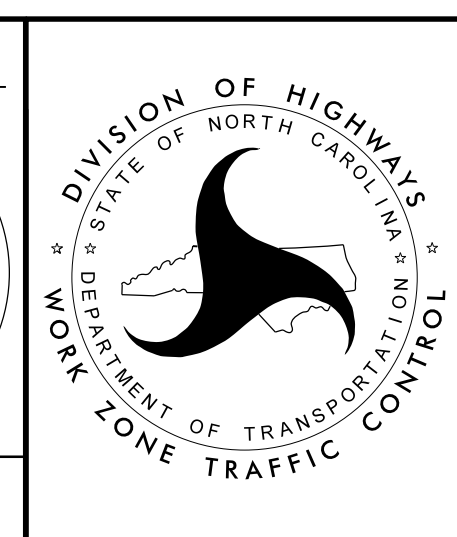
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APPROVED DATE: 4/3/2019

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ROADWAY STANDARD DRAWINGS & LEGEND

GENERAL NOTES

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS, AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS OR RESULT IN DUPLICATE OR UNDESIRABLE OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING, OR REMOVAL OF DEVICES AS DIRECTED BY THE ENGINEER.

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT EXCEPT WHEN OTHERWISE NOTED IN THE PLAN OR DIRECTED BY THE ENGINEER.

TIME RESTRICTIONS

A) DO NOT CLOSE LANES AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
S. 3RD ST. (-L-)	MONDAY-FRIDAY 6:00AM to 9:00AM 4:00PM to 7:00PM SUNDAY 6:00AM to 1:00PM
DOCK ST. (-Y-)	MONDAY-FRIDAY 6:00AM to 9:00AM 4:00PM to 7:00PM SUNDAY 6:00AM to 1:00PM

B) DO NOT CLOSE OR NARROW TRAVEL LANES DURING HOLIDAYS AND SPECIAL EVENTS AS FOLLOWS:

ROAD NAME
S. 3RD ST. (-L-)
DOCK ST. (-Y-)

HOLIDAY

- FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- FOR NEW YEAR'S, BETWEEN THE HOURS OF 6:00 A.M. DECEMBER 31st TO 7:00 P.M. JANUARY 2ND.
- FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 7:00 P.M. MONDAY.
- FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 7:00 P.M. TUESDAY.
- FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 7:00 P.M. THE DAY AFTER INDEPENDENCE DAY.
- FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY AND 7:00 P.M. TUESDAY.
- FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY TO 7:00 P.M. MONDAY.
- FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 7:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

SPECIAL EVENTS

- FOR THE WILMINGTON RIVERFEST - SEPTEMBER 30 - OCTOBER 3, 2021 BETWEEN THE HOURS OF 6:00AM THURSDAY AND 11:59PM SUNDAY.
- FOR THE WILMINGTON IRONMAN - OCTOBER 23, 2021 BETWEEN THE HOURS OF 6:00AM AND 7:00PM SATURDAY.
- FOR THE MARTIN LUTHER KING DAY PARADE - JANUARY 17, 2022 BETWEEN THE HOURS OF 6:00AM AND 7:00PM MONDAY.
- FOR THE WILMINGTON AZALEA FESTIVAL - APRIL 6 - 10, 2022 BETWEEN THE HOURS OF 6:00AM WEDNESDAY TO 7:00PM SUNDAY.

C) DO NOT CONDUCT ANY HAULING OPERATIONS AGAINST THE FLOW OF TRAFFIC OF AN OPEN TRAVELWAY UNLESS THE HAULING OPERATION IS PROTECTED BY BARRIER OR GUARDRAIL OR AS DIRECTED BY THE ENGINEER.

LANE AND SHOULDER CLOSURE REQUIREMENTS

- D) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED OR AS DIRECTED BY THE ENGINEER.
- E) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.
- F) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.
- WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO A DIVIDED FACILITY AND WITHIN 10 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.
- G) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC CONTROL PLANS, ROADWAY STANDARD DRAWINGS, OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.
- H) DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY, RAMP, OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.

PAVEMENT EDGE DROP OFF REQUIREMENTS

- I) BACKFILL AT A 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT IN AREAS ADJACENT TO AN OPENED TRAVEL LANE THAT HAS AN EDGE OF PAVEMENT DROP-OFF AS FOLLOWS:
- BACKFILL DROP-OFFS THAT EXCEED 2 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR GREATER.
- BACKFILL DROP-OFFS THAT EXCEED 3 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS LESS THAN 45 MPH.
- BACKFILL WITH SUITABLE COMPACTED MATERIAL, AS APPROVED BY THE ENGINEER, AT NO EXPENSE TO THE DEPARTMENT.
- J) DO NOT EXCEED A DIFFERENCE OF 2 INCHES IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC FOR NOMINAL LIFTS OF 1.5 INCHES. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (W8-11) 350 FT IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

K) NOTIFY THE ENGINEER TWENTY ONE (21) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

SIGNING

- L) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- M) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.
- N) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 350 FT IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

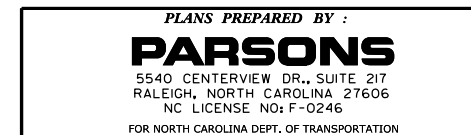
TRAFFIC CONTROL DEVICES

- O) WHEN LANE CLOSURES ARE NOT IN EFFECT SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER IN FEET THAN TWICE THE POSTED SPEED LIMIT (MPH) EXCEPT, 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY. REFER TO STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES SECTIONS 1130 (DRUMS), 1135 (CONES) AND 1180 (SKINNY DRUMS) FOR ADDITIONAL REQUIREMENTS.
- P) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES (DRUMS) PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 500 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.

PAVEMENT MARKINGS AND MARKERS

- Q) INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:
- | ROAD NAME | MARKING | MARKER |
|-----------|---------|-----------|
| ALL ROADS | PAINT | TEMPORARY |
- R) PLACE ONE APPLICATION OF PAINT FOR TEMPORARY TRAFFIC PATTERNS. PLACE A SECOND APPLICATION OF PAINT SIX (6) MONTHS AFTER THE INITIAL APPLICATION AND EVERY SIX MONTHS AS DIRECTED BY THE ENGINEER.
- S) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- T) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.

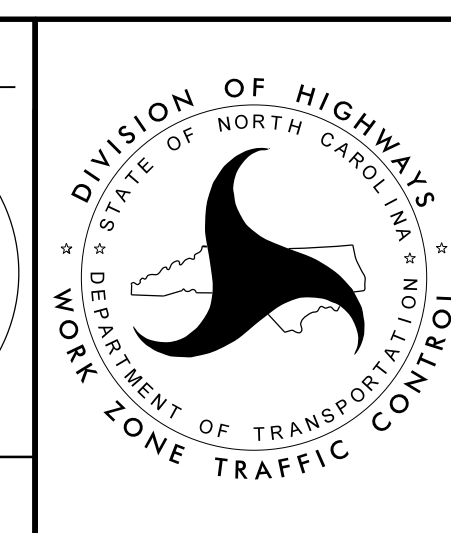
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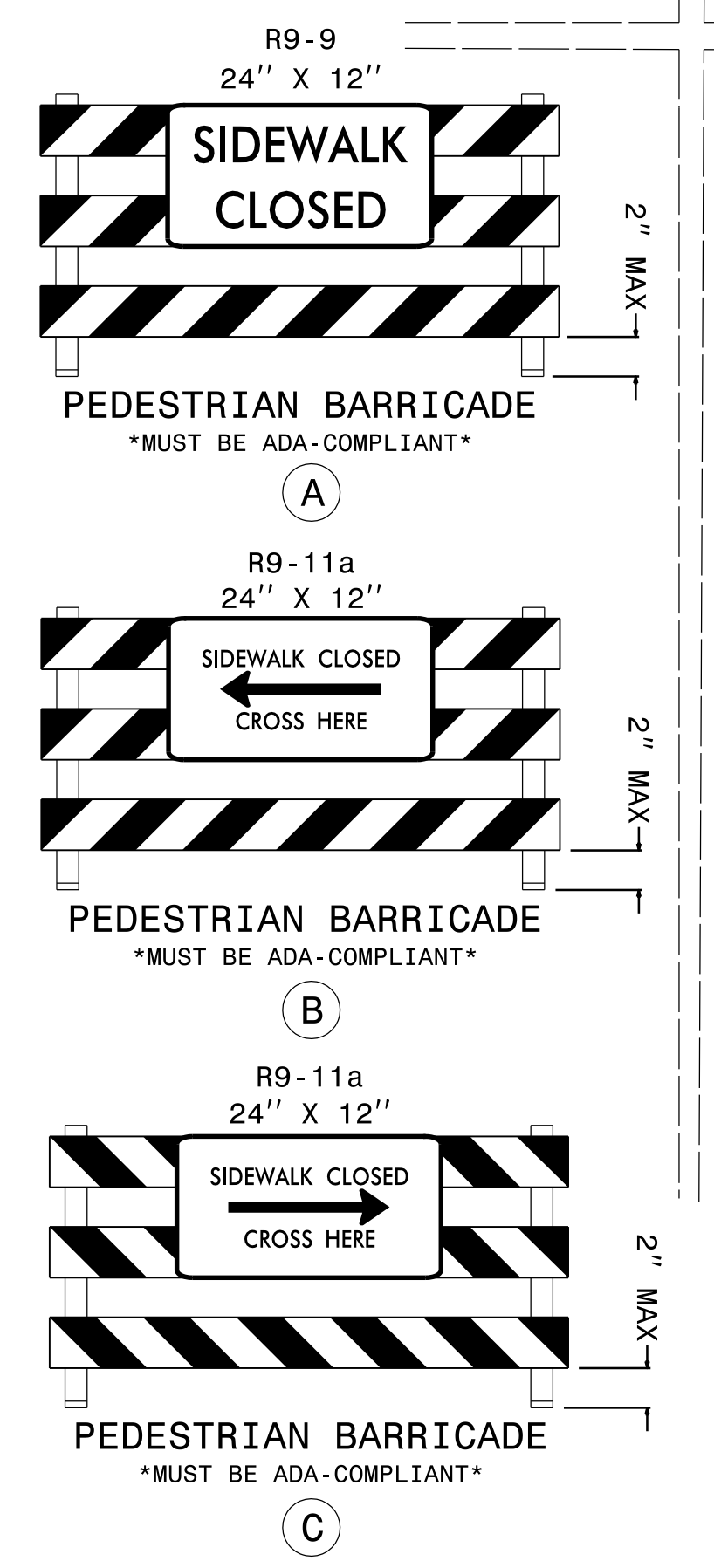
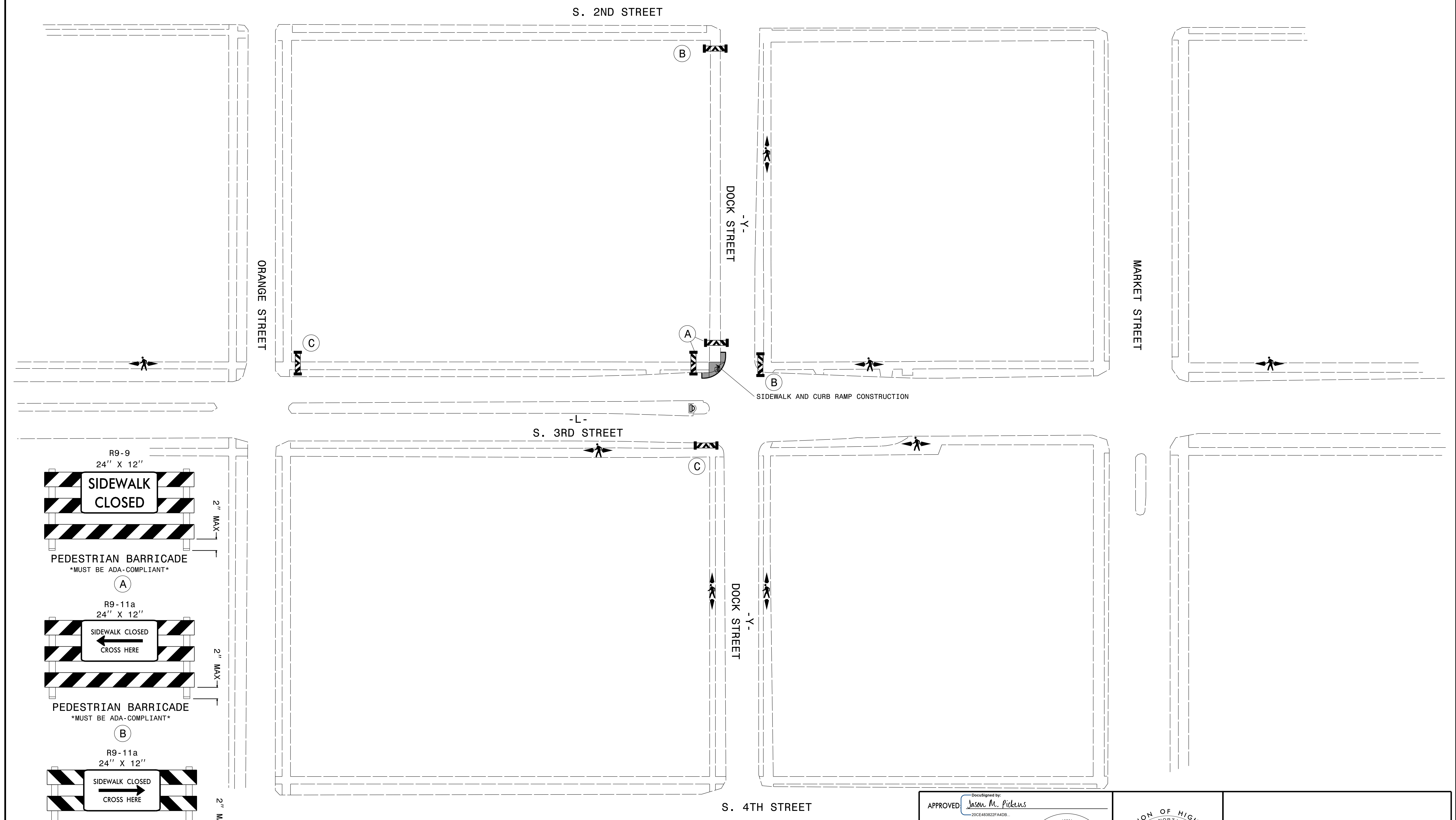
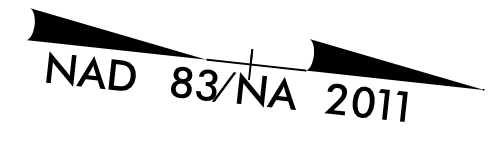
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DATE: 8/23/2021

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GENERAL NOTES

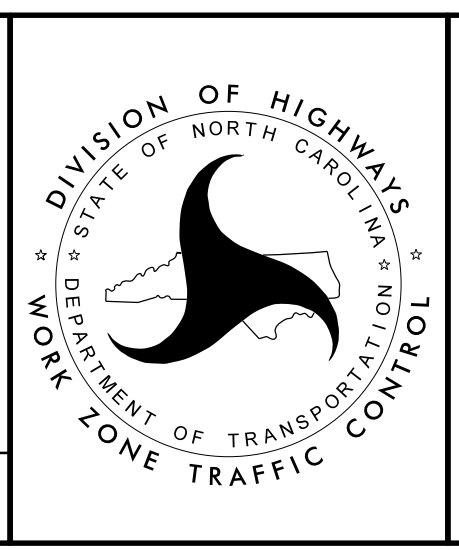


PLANS PREPARED BY:
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 NC LICENSE NO. F-10246
 FOR NORTH CAROLINA DEPT. OF TRANSPORTATION

APPROVED: *Jason M. Pickens*
 DATE: 4/3/2019

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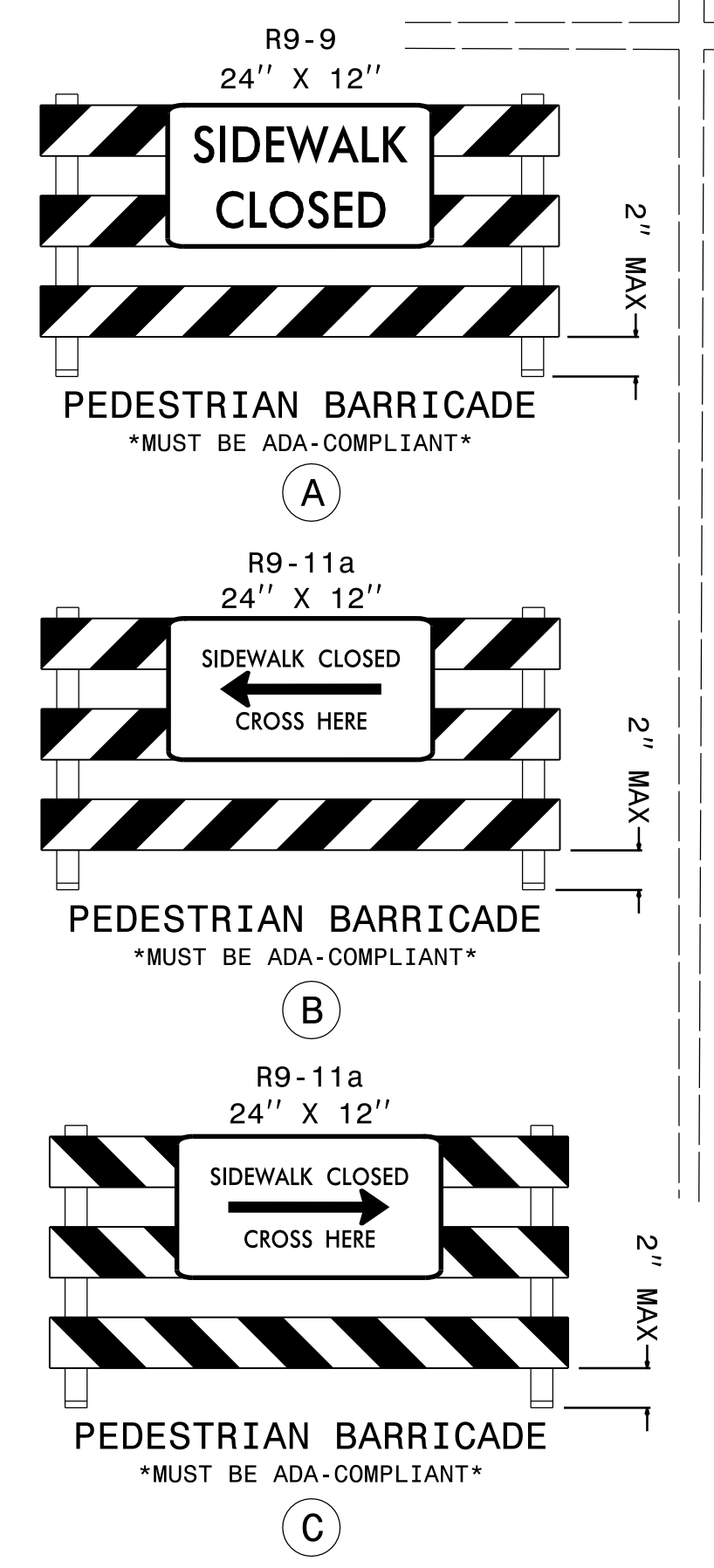
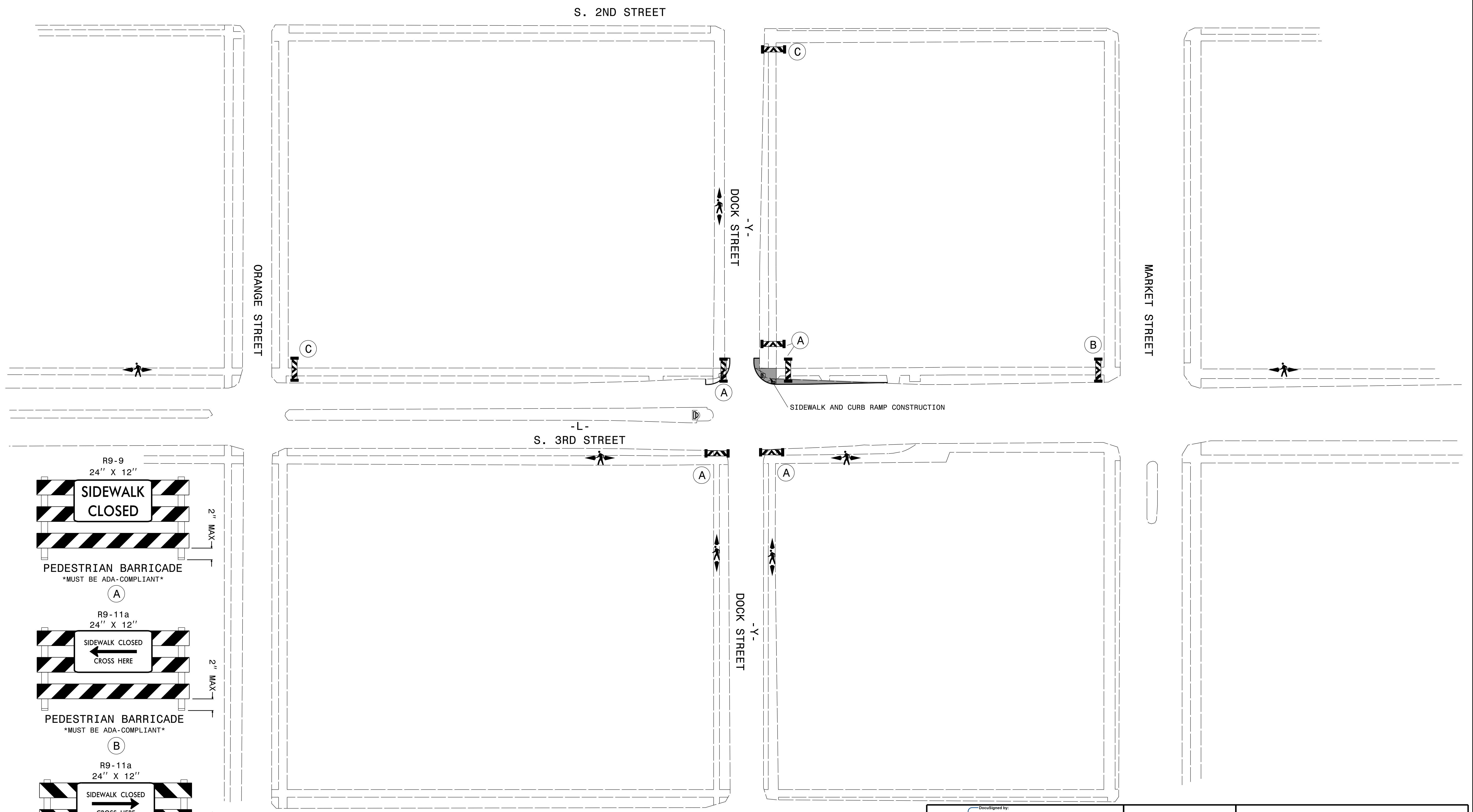
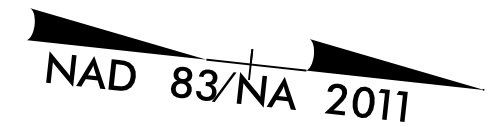
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**TEMPORARY PEDESTRIAN
 DETOUR
 DETAIL 1A**

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S. 4TH STREET

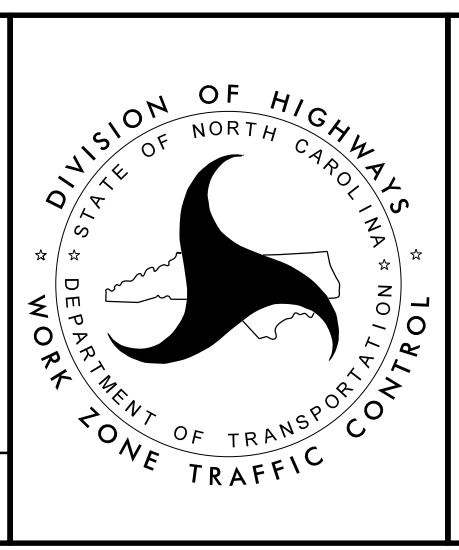
PLANS PREPARED BY:
PARSONS
 5540 CENTERVIEW DR., SUITE 207
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 NC LICENSE NO. F-02246
 FOR NORTH CAROLINA DEPT. OF TRANSPORTATION

APPROVED: *Jason M. Pickens*
DocuSigned by:
 Jason M. Pickens
 20CE483822FA4DB

DATE: 4/3/2019

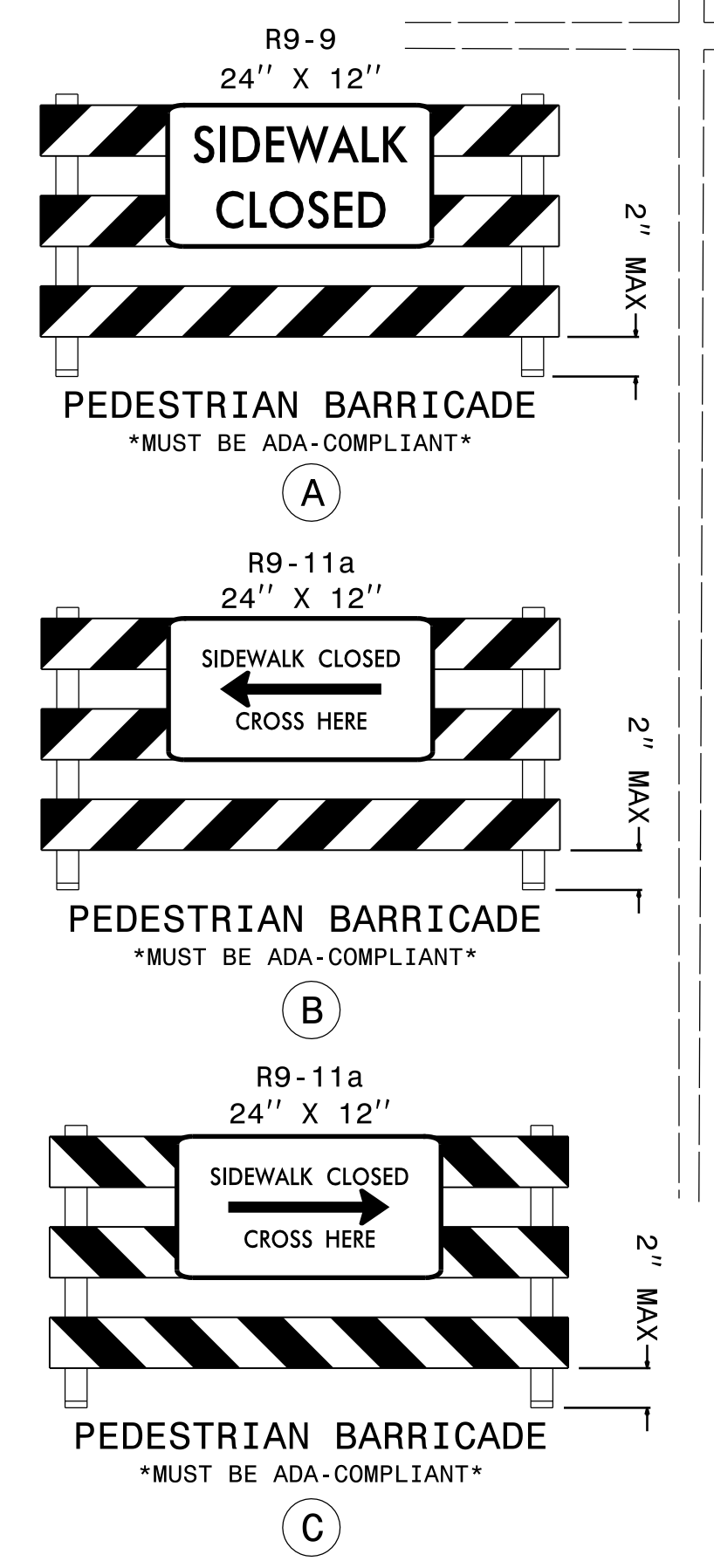
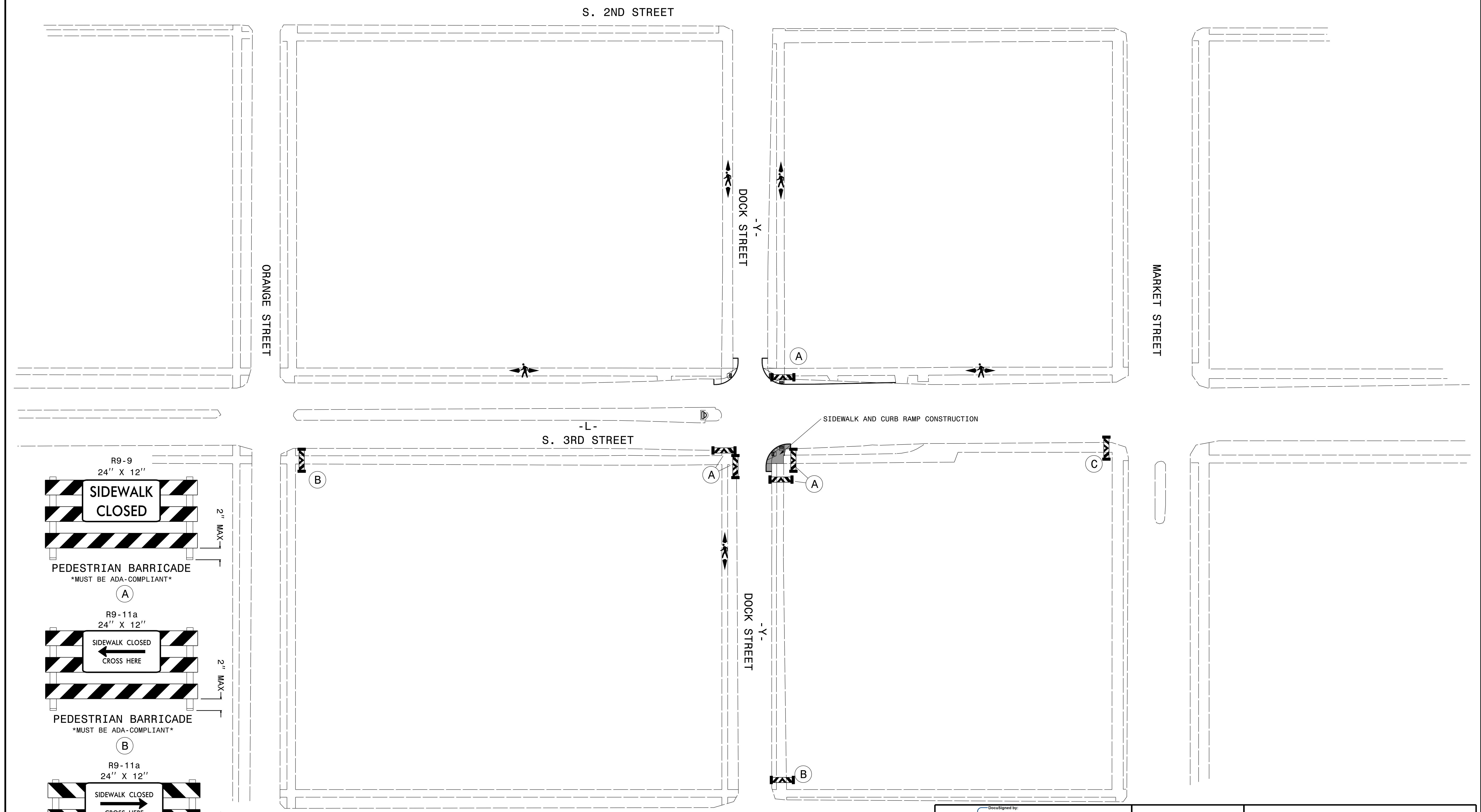
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**TEMPORARY PEDESTRIAN
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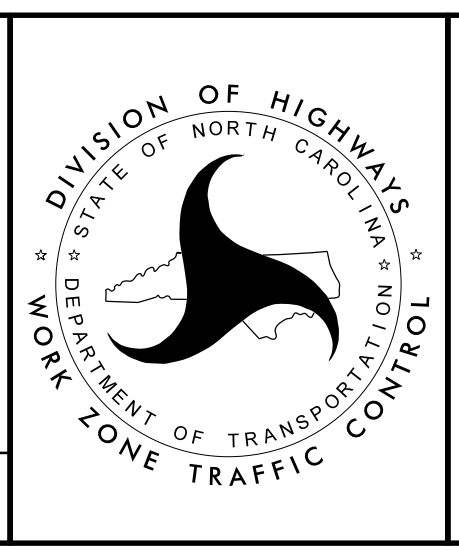
S. 4TH STREET

PLANS PREPARED BY:
PARSONS
3540 CENTERVIEW DRIVE, SUITE 201
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NC LICENSE NO. F-0246
FOR NORTH CAROLINA DEPT. OF TRANSPORTATION

APPROVED: *Jason M. Pickens*
20CE48382FA4DB
DATE: 4/3/2019

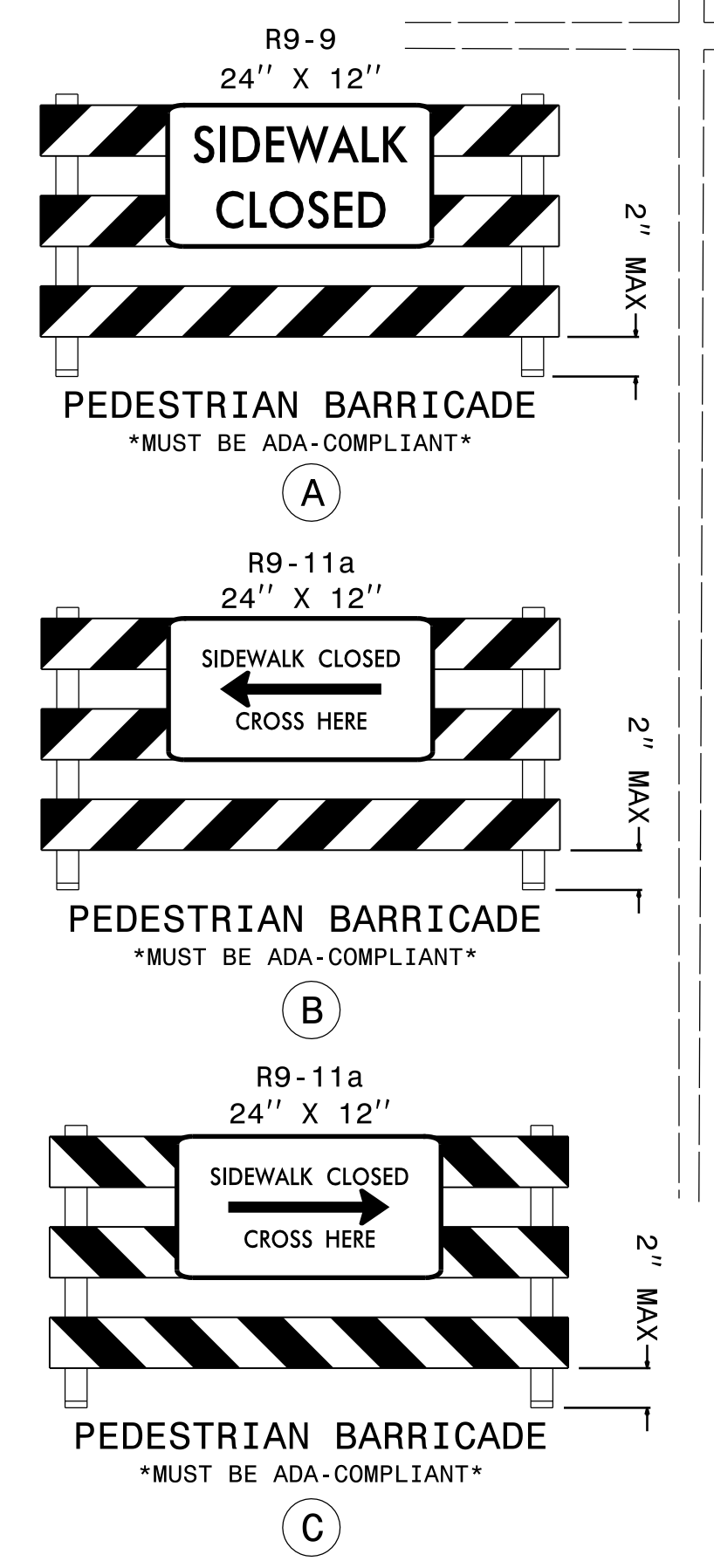
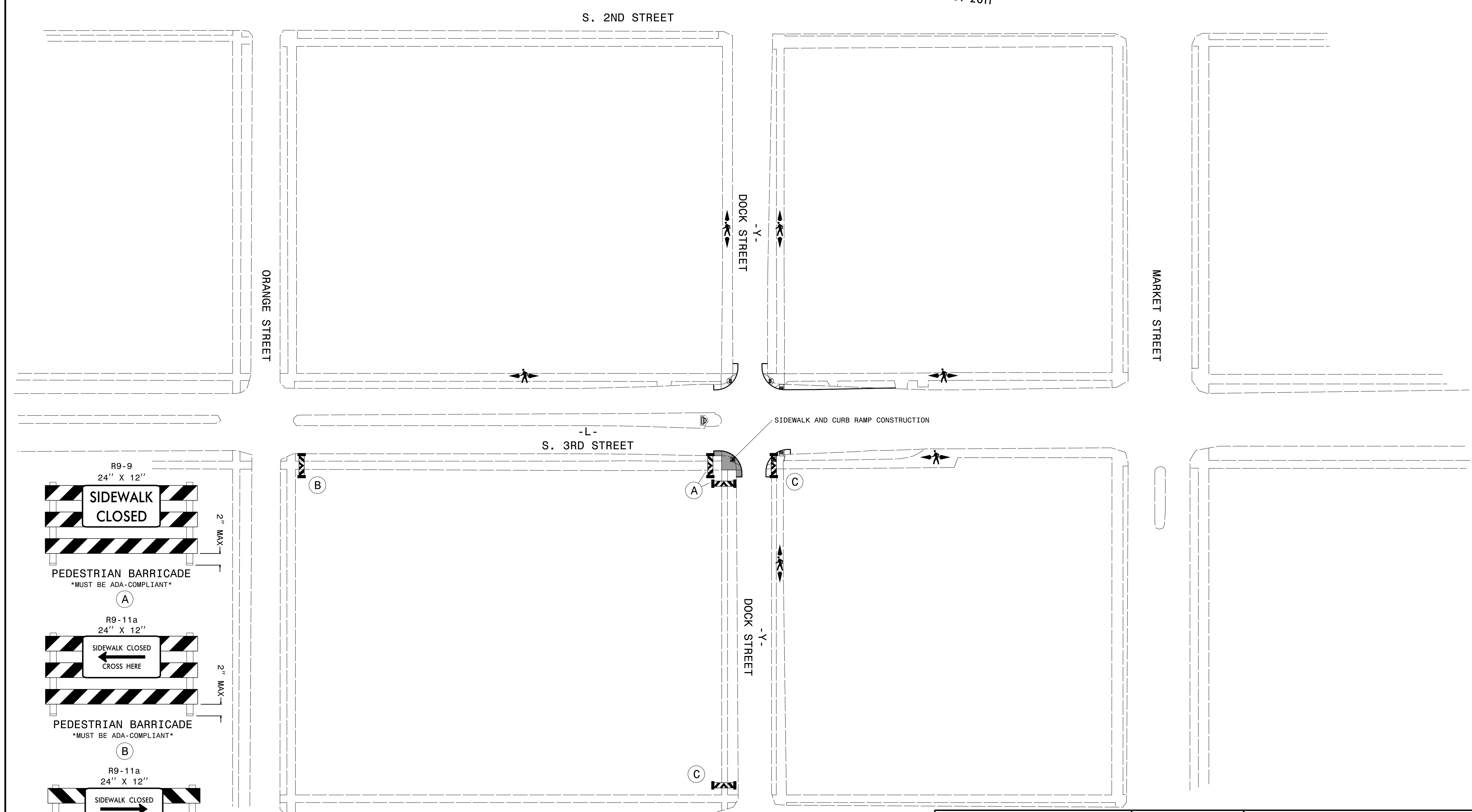
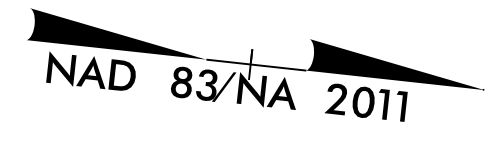
SEAL

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**



**TEMPORARY PEDESTRIAN
DETOUR
DETAIL 1C**

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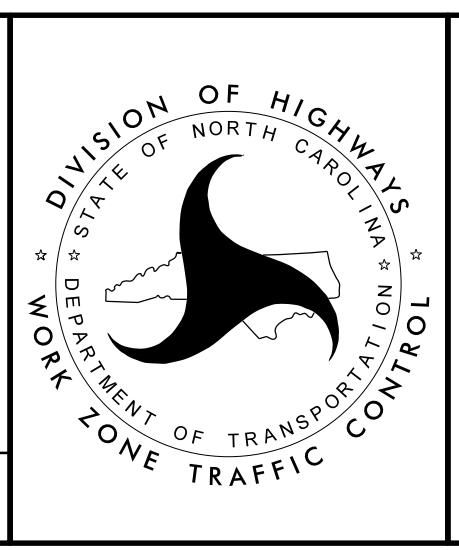
S. 4TH STREET

PLANS PREPARED BY:
PARSONS
3540 CENTERVIEW DRIVE, SUITE 201
 RALEIGH, NORTH CAROLINA 27609
 NC LICENSE NO. F-0246
 FOR NORTH CAROLINA DEPT. OF TRANSPORTATION

APPROVED: *Jason M. Pickens*
200E483822FAADB
 DATE: 4/3/2019

SEAL

**DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED**



**TEMPORARY PEDESTRIAN
 DETOUR
 DETAIL 1D**

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 \$\$\$USERNAME\$\$\$

PROJ. REFERENCE NO.	SHEET NO.
W-5601DH	TMP-3

PHASING

NOTES:

REPLACE MARKINGS AND RETURN TRAFFIC TO THE CURRENT TRAFFIC PATTERN AT THE END OF EACH WORK PERIOD UNLESS OTHERWISE NOTED IN THE PHASING OR DIRECTED BY THE ENGINEER.

COMPLETE ANY PROPOSED WIDENING IN SUCH A MANNER THAT PONDING OF WATER WILL NOT OCCUR IN THE TRAVEL LANE.

MAINTAIN VEHICULAR ACCESS TO ALL RESIDENCES AND BUSINESSES DURING THE LIFE OF THE CONTRACT UNLESS OTHERWISE NOTED IN THE PHASING OR DIRECTED BY THE ENGINEER.

WEDGING OPERATIONS SHOULD BE DONE IN SUCH A MANNER THAT SMOOTH TRANSITIONS ARE PROVIDED AT THE END OF EACH DAY BETWEEN TRAVEL LANES AND AT TIE-INS WITH EXISTING PAVEMENT.

THE TERM RSD DENOTES ROADWAY STANDARD DRAWINGS.

PHASE I

STEP 1: INSTALL ADVANCE WORK ZONE WARNING SIGNS ACCORDING TO RSD 1101.01 (SHEETS 2 AND 3 OF 3).

STEP 2: USING RSD 1101.02 (SHEETS 1 AND 3 OF 14) AS NEEDED, CONSTRUCT THE FOLLOWING AS SHOWN ON TMP-4:

- * SIDEWALK, GRANITE CURB, AND CURB RAMP CONSTRUCTION

NOTE:
 COMPLETE SIDEWALK, GRANITE CURB, AND CURB RAMP CONSTRUCTION FOR EACH QUADRANT INDIVIDUALLY, PLACE 'SIDEWALK CLOSED CROSS HERE' BARRICADES AT ADJACENT INTERSECTIONS TO DETOUR PEDESTRIANS AROUND CONSTRUCTION. SEE TMP-2 THRU TMP-2C FOR TEMPORARY PEDESTRIAN DETOUR DETAILS.

STEP 3: USING RSD 1101.02 (SHEETS 1 AND 3 OF 14) AS NEEDED, CONSTRUCT THE FOLLOWING AS SHOWN ON TMP-4:

- * MEDIAN CONSTRUCTION FOR -L- (S. 3RD STREET)

STEP 4: WORKING IN A CONTINUOUS MANNER, USING RSD 1101.02 (SHEETS 1 AND 3 OF 14) AS NEEDED, PERFORM MILLING OPERATIONS AS SHOWN ON TMP-4:

- * -L- FROM STA. 14+35 +/- TO STA. 18+40 +/-
- * -Y- FROM STA. 13+50 +/- TO STA. 13+77 +/-
- * -Y- FROM STA. 14+50 +/- TO STA. 14+80 +/-

PLACE 1.5" OF SURFACE COURSE FOR THE FOLLOWING:

- * -L- FROM STA. 14+35 +/- TO STA. 18+40 +/-
- * -Y- FROM STA. 13+50 +/- TO STA. 13+77 +/-
- * -Y- FROM STA. 14+50 +/- TO STA. 14+80 +/-

STEP 5: USING RSD 1101.02 (SHEETS 1 AND 3 OF 14) AS NEEDED, COMPLETE THE FOLLOWING:

- * PLACE THE FINAL PAVEMENT MARKINGS AND MARKERS AS SHOWN IN THE PAVEMENT MARKING PLANS.

STEP 6: REMOVE ALL TRAFFIC CONTROL DEVICES AND SIGNING.

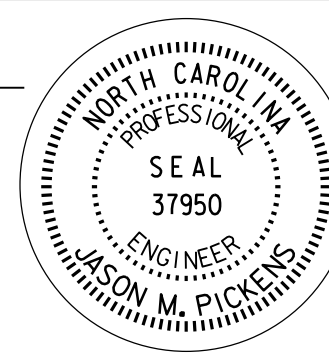
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PLANS PREPARED BY:
PARSONS
5540 CENTERVIEW DR., SUITE 201
 RALEIGH, NORTH CAROLINA 27608
 NC LICENSE NO. F-0246
 FOR NORTH CAROLINA DEPT. OF TRANSPORTATION

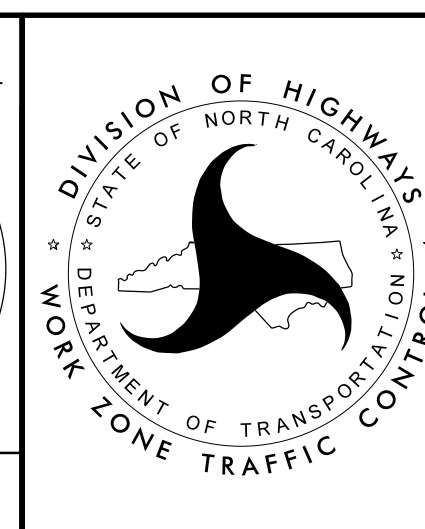
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DocuSigned by:
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DATE: 4/3/2019

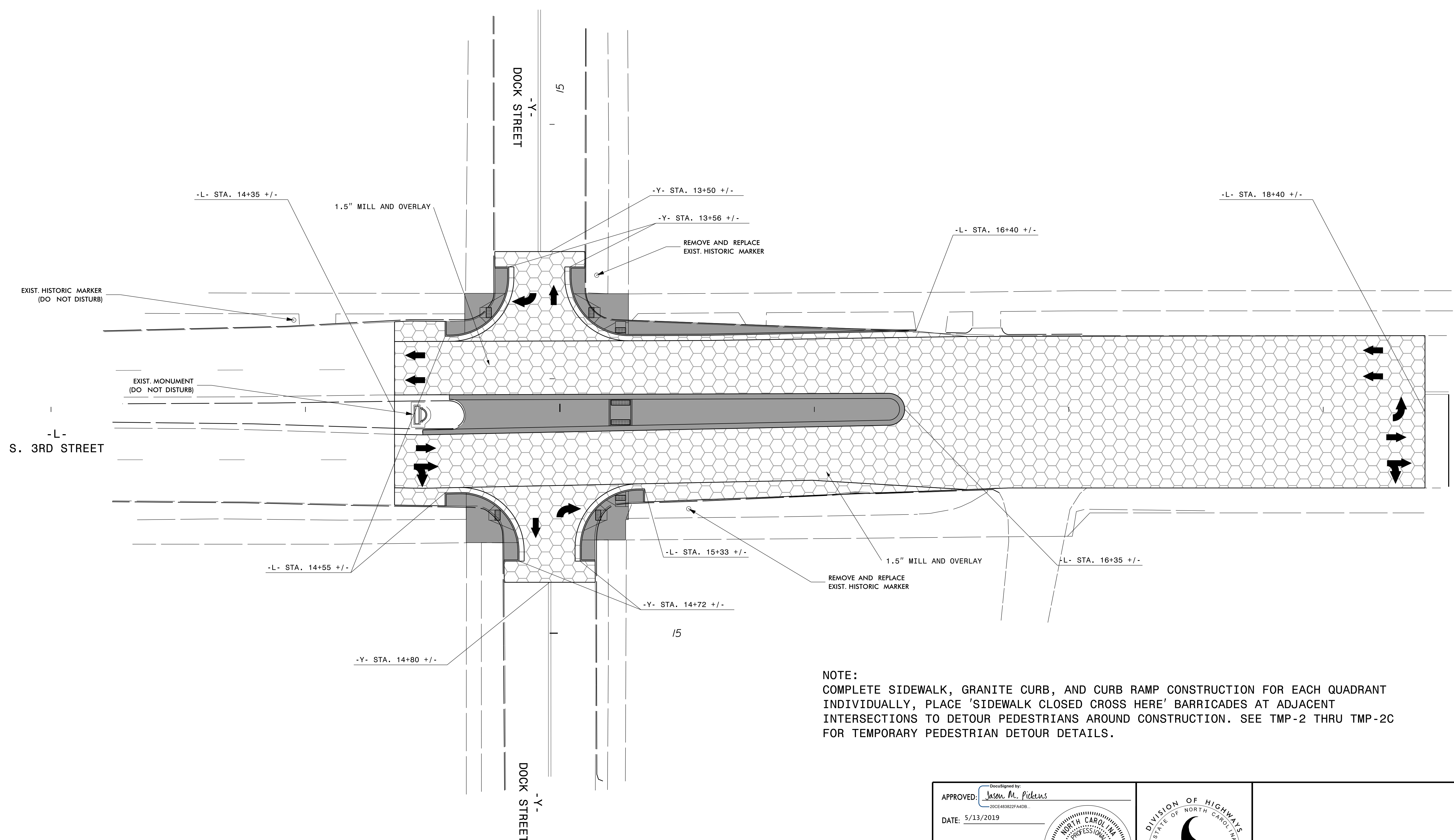
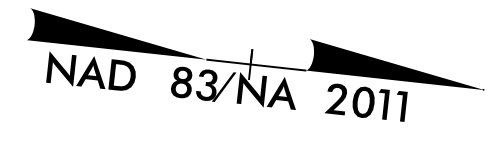
SEAL



**DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED**



PHASING



NOTE:
 COMPLETE SIDEWALK, GRANITE CURB, AND CURB RAMP CONSTRUCTION FOR EACH QUADRANT INDIVIDUALLY, PLACE 'SIDEWALK CLOSED CROSS HERE' BARRICADES AT ADJACENT INTERSECTIONS TO DETOUR PEDESTRIANS AROUND CONSTRUCTION. SEE TMP-2 THRU TMP-2C FOR TEMPORARY PEDESTRIAN DETOUR DETAILS.

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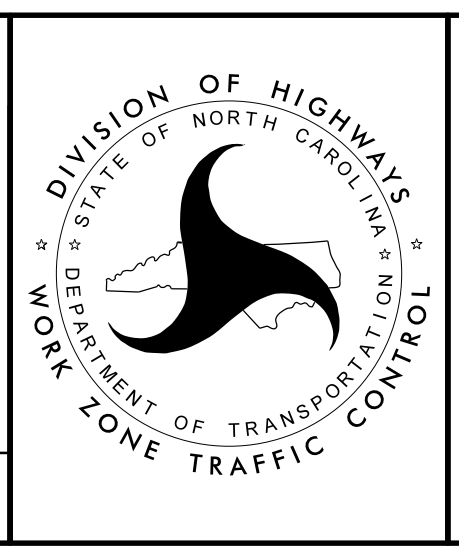
PLANS PREPARED BY:
PARSONS
 5540 CENTERVIEW DR., SUITE 207
 RALEIGH, NORTH CAROLINA 27608
 NC LICENSE NO. F-10246
 FOR NORTH CAROLINA DEPT. OF TRANSPORTATION

APPROVED: *Jason M. Pickens*
DocuSigned by:
 Jason M. Pickens
 20CE483822FA4DB

DATE: 5/13/2019

SEAL

**DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED**



**PHASE I
 DETAIL 1**

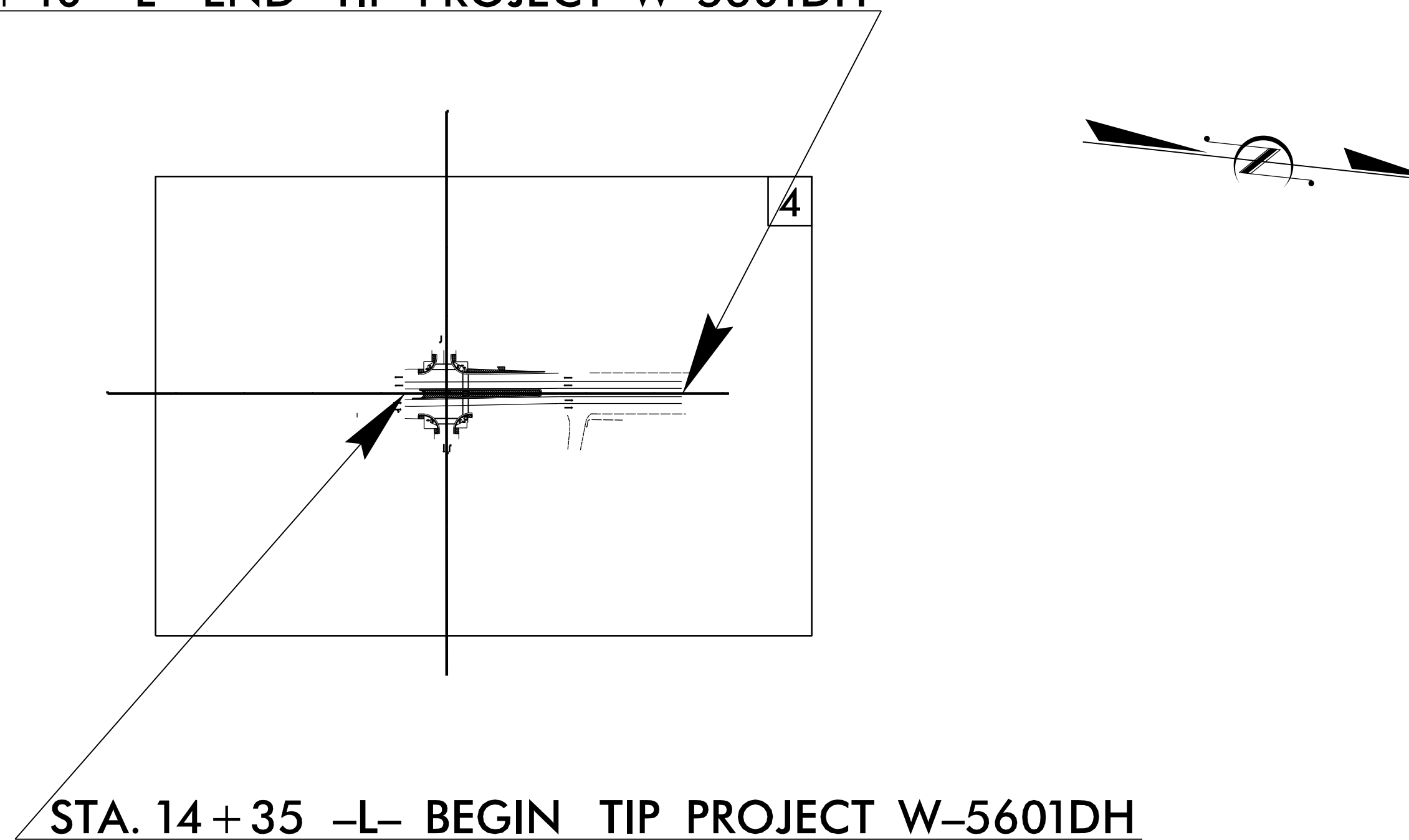
TIP PROJECT: W-5601DH

**STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN
NEW HANOVER COUNTY**

**LOCATION: INTERSECTION IMPROVEMENT AT US 17 BUSINESS
(S. 3RD STREET) AND DOCK STREET IN NEW HANOVER COUNTY**

STA. 18+40 -L- END TIP PROJECT W-5601DH

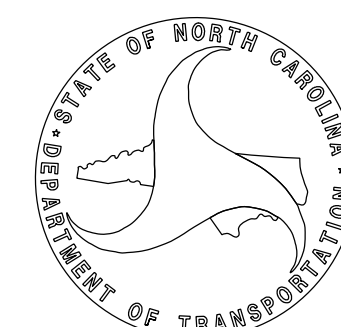


INDEX

SHEET NO.	DESCRIPTION
PMP-1	PAVEMENT MARKING PLAN TITLE SHEET
PMP-2	PAVEMENT MARKING SCHEDULE & QUANTITIES
PMP-3	GENERAL NOTES & ROADWAY STANDARD DRAWINGS
PMP-4	PAVEMENT MARKING DETAIL

N.C.D.O.T. CONTACT INFORMATION

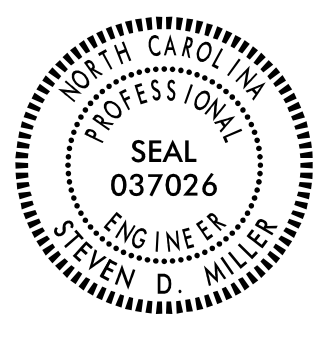
Ayman I. Alqudwah, P.E. SIGNING AND DELINEATION REGIONAL ENGINEER
Eric Ward SIGNING AND DELINEATION PROJECT DESIGN ENGINEER


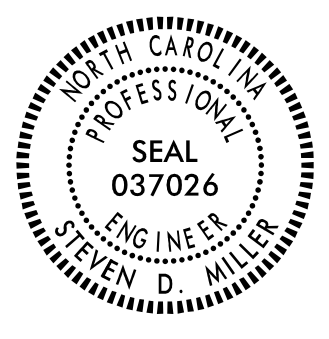


**PLAN PREPARED BY:
SEPI ENGINEERING & CONSTRUCTION**

Steve Miller, P.E. PROJECT MANAGER
Robert Screws, EI DESIGN ENGINEER

SEPI
ENGINEERING & CONSTRUCTION
 1025 Wade Avenue
 Raleigh, NC 27605
 Tel: 919-789-9977
 Fax: 919-789-9591
 License: C-2197

TIP NO. W-5601DH	SHEET NO. PMP - 1
APPROVED: <u>Steve Miller</u> <small>DocuSigned by: Steve Miller 9F8C9C15CEEB466</small>	
DATE: _____	
SEAL 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

TIP NO. W-5601DH	SHEET NO. PMP-2
<small>DocuSigned by:</small> APPROVED:  Steve Miller <small>9F8C9C15CEEB486</small>	
DATE: _____	
SEAL	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION	
T2	WHITE STOP BAR	<u>THERMOPLASTIC (24", 90 MILS)</u>
T3	WHITE CROSSWALK LINE	
TC	10 FT. WHITE SKIP	<u>THERMOPLASTIC (4", 90 MILS)</u>
TD	3 FT. - 9 FT./SP WHITE MINISKIP	
TE	WHITE SOLID LANE LINE	
TI	YELLOW DOUBLE CENTER	
TO	WHITE DIAGONAL	<u>THERMOPLASTIC (8", 90 MILS)</u>
TP	YELLOW DIAGONAL	
TQ	WHITE CROSSWALK LINE	
UA	LEFT TURN ARROW	<u>THERMOPLASTIC PAVEMENT MARKING SYMBOLS (90 MILS)</u>
UC	STRAIGHT ARROW	
UE	COMBO. RIGHT/STRAIGHT ARROW	
UN	24" YIELD LINE TRIANGLE	

SUMMARY OF QUANTITIES

ITEM NO.		ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NO.	SECT. NO.			
4685000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)	1329	LF
4695000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (8", 90 MILS)	333	LF
4891000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (24", 90 MILS)	118	LF
4725000000-E	1205	THERMOPLASTIC PAVEMENT MARKING SYMBOLS (90 MILS)	19	EA
4905000000-N	1253	RAISED PAVEMENT MARKERS - SNOWPLOWABLE	25	EA

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USER: BUBBA

SEPI

ENGINEERING & CONSTRUCTION

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Fax: 919-789-9591
License: C-2197

PAVEMENT MARKING SCHEDULE & SUMMARY OF QUANTITIES

GENERAL NOTES

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT, EXCEPT WHEN OTHERWISE NOTED IN THE PLAN, OR DIRECTED BY THE ENGINEER.

- A) INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS FOLLOWS:

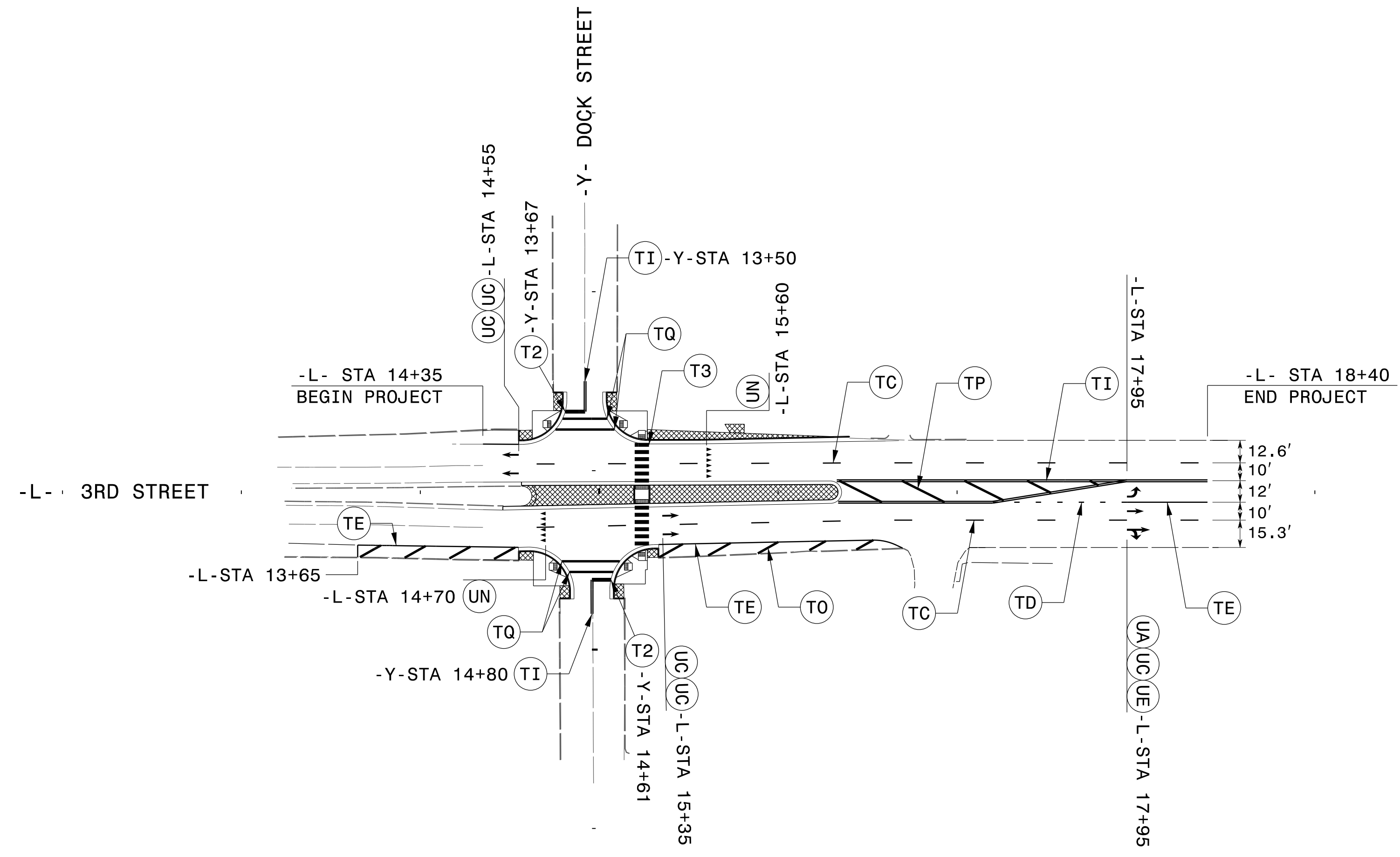
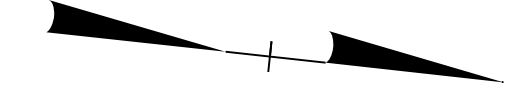
ROAD NAME	MARKING	MARKER
3RD STREET	THERMOPLASTIC	SNOWPLOWABLE
DOCK STREET	THERMOPLASTIC	SNOWPLOWABLE
- B) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- C) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.
- D) STOP BAR LOCATION AT NON-SIGNALIZED INTERSECTIONS MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER.
- E) UNLESS OTHERWISE SPECIFIED, HEATED-IN-PLACE THERMOPLASTIC MAY BE USED IN LIEU OF EXTRUDED THERMOPLASTIC FOR STOP BARS, SYMBOLS, CHARACTERS AND DIAGONALS. IF HEATED-IN-PLACE IS USED, IT SHALL BE PAID FOR USING THE EXTRUDED THERMOPLASTIC PAY ITEM.

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2018 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

<u>STD. NO.</u>	<u>TITLE</u>
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1253.01	RAISED PAVEMENT MARKERS - SNOWPLOWABLE

8/19/2021
 I:\SEPI\DESIGN\W-5601DH_PMP-3.dgn
 USER:IBURMAN



8/19/2001
 P:\PMP\DESIGN\W-5601DH_PMP-4.dgn
 USER:IBURMAN

SEPI
 ENGINEERING &
 CONSTRUCTION

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 Raleigh, NC 27605
 Tel: 919-789-9977
 Fax: 919-789-9591
 License: C-2197

PAVEMENT MARKING DETAIL

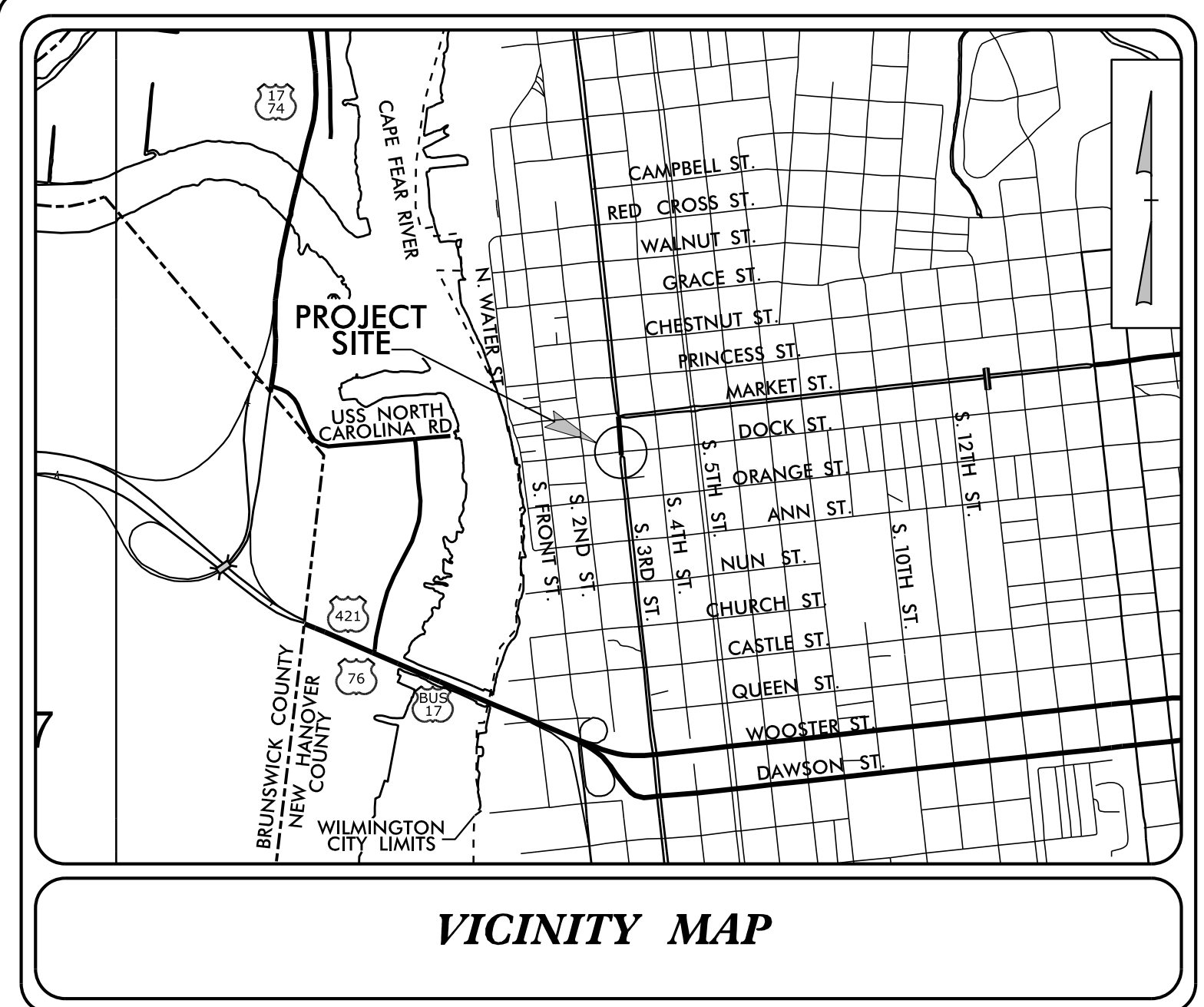
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N.C.	W-5601DH	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
50138.1.113	HSIP-0017 (154)	PE	
50138.2.113	HSIP-0017 (154)	ROW	
50138.3.113	HSIP-0017 (154)	CONST	

EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	TSF
1606.01	Special Sediment Control Fence	SSCF
1622.01	Temporary Berms and Slope Drains	TBSD
1630.02	Silt Basin Type B	SB
1633.01	Temporary Rock Silt Check Type-A	TRSCA
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	TRSCA-PAM
1633.02	Temporary Rock Silt Check Type-B	TRSCB
	Wattle / Coir Fiber Wattle	WCFW
	Wattle / Coir Fiber Wattle with Polyacrylamide (PAM)	WCFW-PAM
1634.01	Temporary Rock Sediment Dam Type-A	TRSDA
1634.02	Temporary Rock Sediment Dam Type-B	TRSDB
1635.01	Rock Pipe Inlet Sediment Trap Type-A	RPISTRA
1635.02	Rock Pipe Inlet Sediment Trap Type-B	RPISTRB
1630.04	Stilling Basin	SB
1630.06	Special Stilling Basin	SSB
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	SKB
	Tiered Skimmer Basin	TSKB
	Infiltration Basin	IB

THIS PROJECT CONTAINS EROSION CONTROL PLANS FOR CLEARING AND GRUBBING PHASE OF CONSTRUCTION.

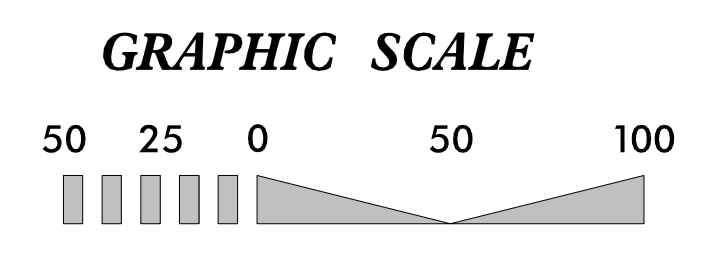
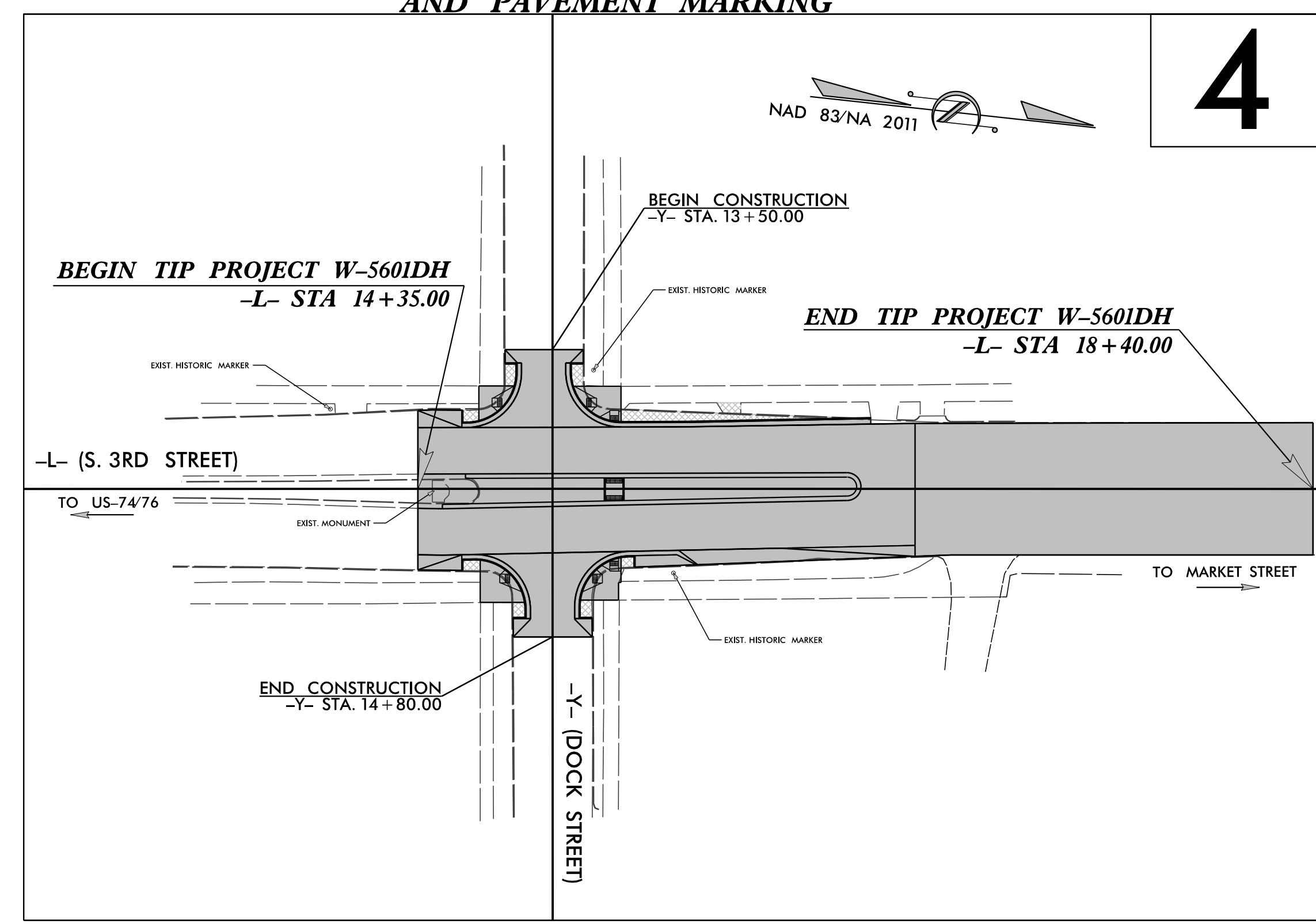
TIP PROJECT: W-5601DH



VICINITY MAP

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL
NEW HANOVER

LOCATION: INTERSECTION IMPROVEMENT AT US 17 BUSINESS (S. 3RD STREET) AND DOCK STREET IN NEW HANOVER COUNTY
TYPE OF WORK: GRADING, DRAINAGE, PAVING, SIGNING, AND PAVEMENT MARKING



THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE APPLICABLE REGULATIONS SET FORTH BY THE NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE APRIL 1, 2019 AND ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF WATER RESOURCES.

Prepared in the Office of:
SUNGATE DESIGN GROUP, P.A.
905 JONES FRANKLIN ROAD
RALEIGH, NORTH CAROLINA 27606
TEL (919) 859-2243
ENG FIRM LICENSE NO. C-890

Designed by:
MATTHEW C. EDWARDS, PE 3992
NAME LEVEL III CERTIFICATION NO.

Roadway Standard Drawings

The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2018 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1604.01 Railroad Erosion Control Detail	1632.01 Rock Inlet Sediment Trap Type A
1605.01 Temporary Silt Fence	1632.02 Rock Inlet Sediment Trap Type B
1606.01 Special Sediment Control Fence	1632.03 Rock Inlet Sediment Trap Type C
1607.01 Gravel Construction Entrance	1633.01 Temporary Rock Silt Check Type A
1622.01 Temporary Berms and Slope Drains	1633.02 Temporary Rock Silt Check Type B
1630.01 Riser Basin	1634.01 Temporary Rock Sediment Dam Type A
1630.02 Silt Basin Type B	1634.02 Temporary Rock Sediment Dam Type B
1630.03 Temporary Silt Ditch	1635.01 Rock Pipe Inlet Sediment Trap Type A
1630.04 Stilling Basin	1635.02 Rock Pipe Inlet Sediment Trap Type B
1630.05 Temporary Diversion	1640.01 Coir Fiber Baffle
1630.06 Special Stilling Basin	1645.01 Temporary Stream Crossing
1631.01 Matting Installation	

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO.	SHEET NO.
<i>W-5601DH</i>	<i>EC-2</i>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SOIL STABILIZATION TIMEFRAMES

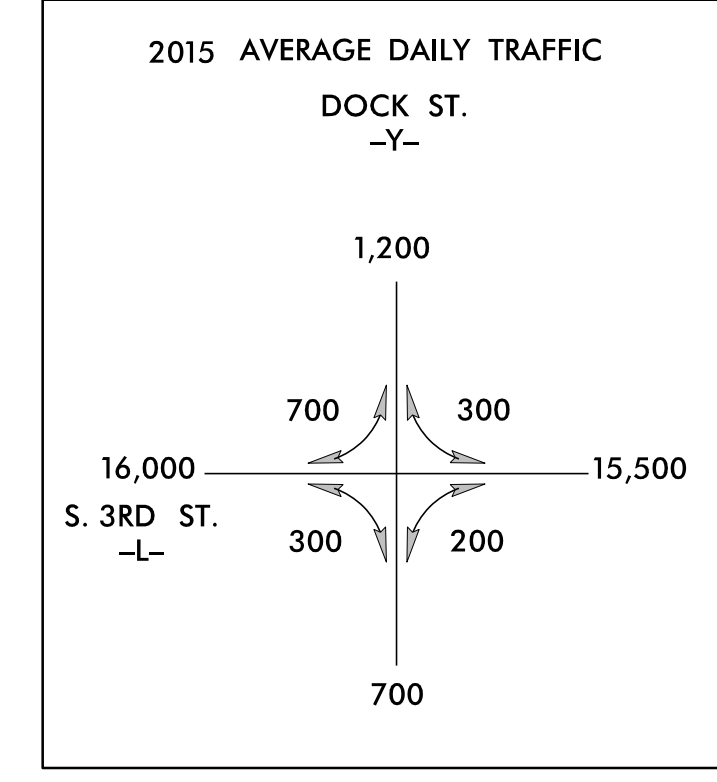
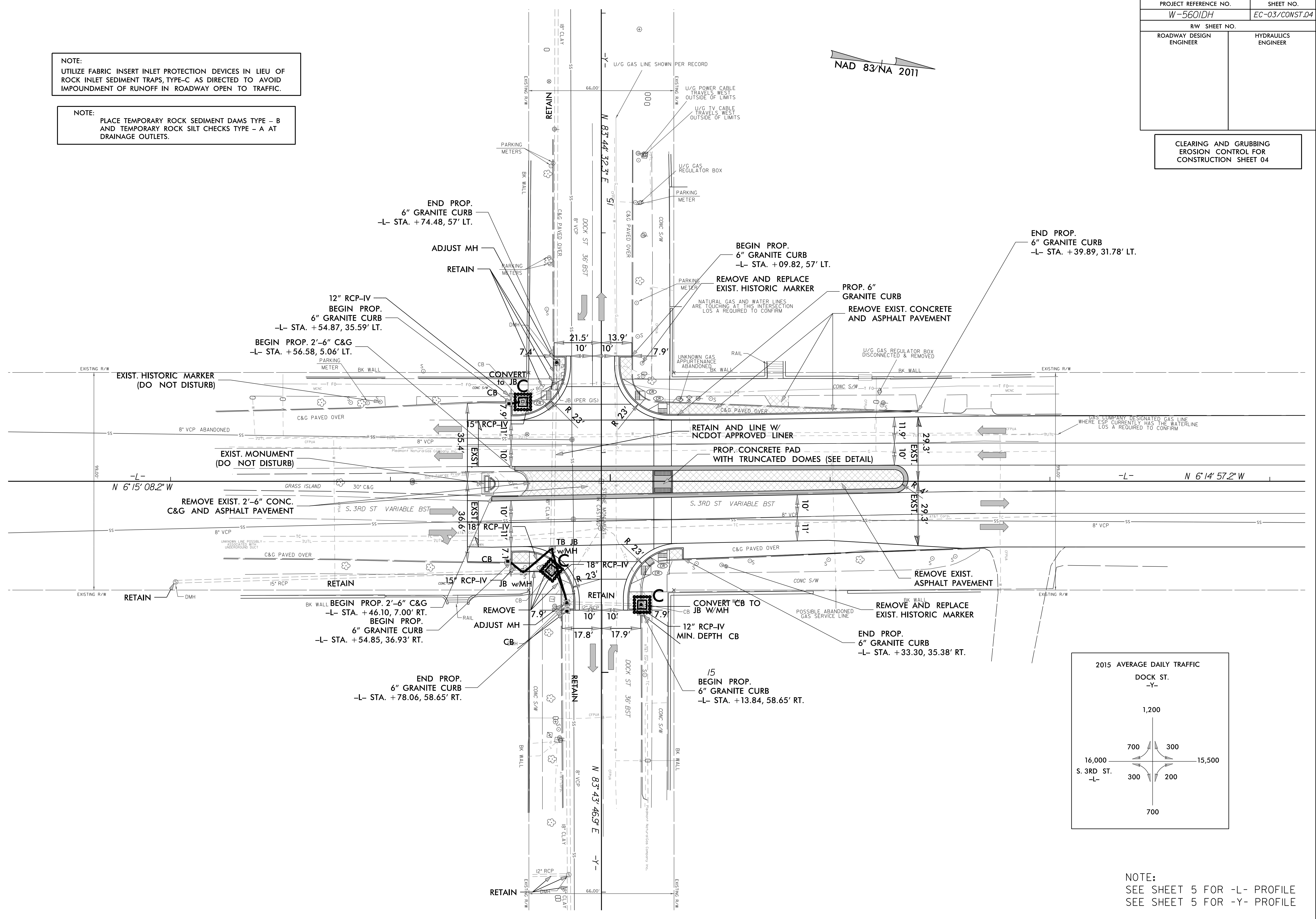
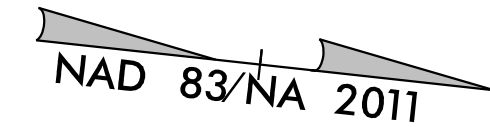
<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 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.

PROJECT REFERENCE NO.	SHEET NO.
W-5601DH	EC-03/CONST.04
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 04

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN LIEU OF
ROCK INLET SEDIMENT TRAPS, TYPE-C AS DIRECTED TO AVOID
IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.

NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

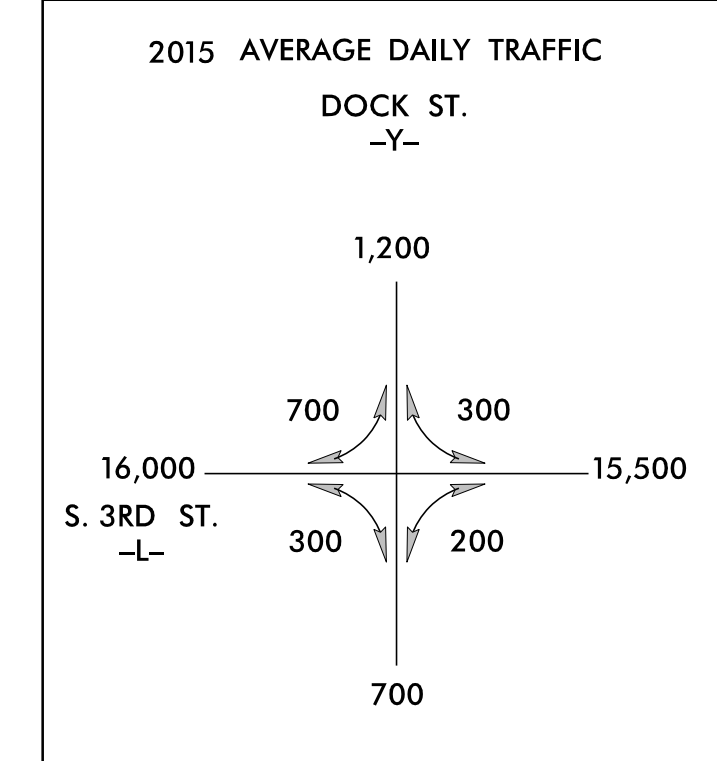
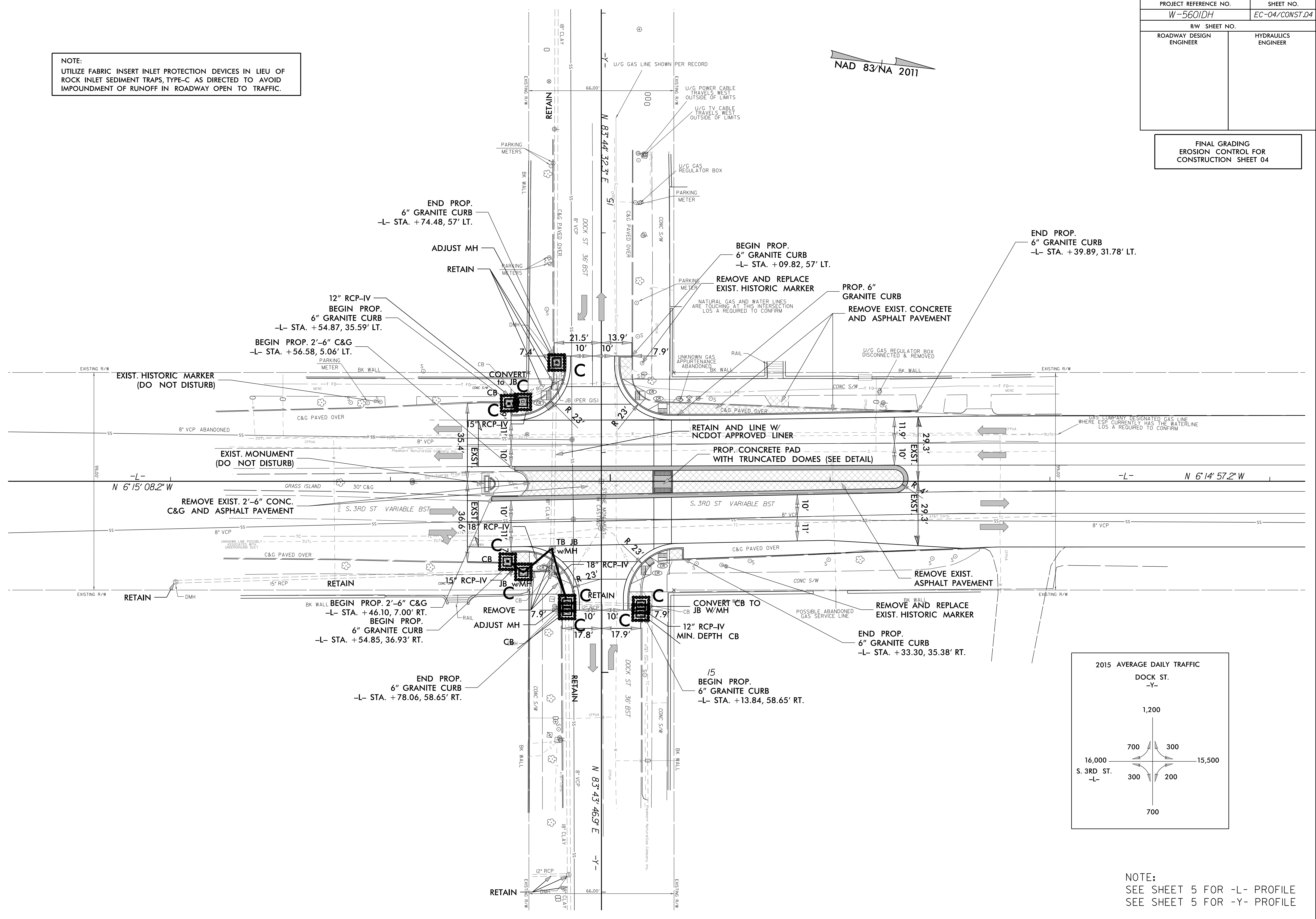
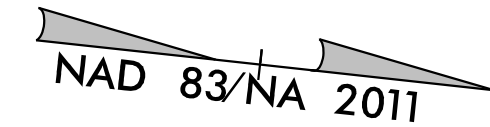


NOTE:
SEE SHEET 5 FOR -L- PROFILE
SEE SHEET 5 FOR -Y- PROFILE

PROJECT REFERENCE NO.	SHEET NO.
W-5601DH	EC-04/CONST.04
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

FINAL GRADING
EROSION CONTROL FOR
CONSTRUCTION SHEET 04

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN LIEU OF
ROCK INLET SEDIMENT TRAPS, TYPE-C AS DIRECTED TO AVOID
IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.



NOTE:
SEE SHEET 5 FOR -L- PROFILE
SEE SHEET 5 FOR -Y- PROFILE

**STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION**

**SIGNING PLAN
NEW HANOVER COUNTY**

**LOCATION: INTERSECTION IMPROVEMENT AT US 17 BUSINESS
(S. 3RD STREET) AND DOCK STREET IN NEW HANOVER COUNTY**

TIP PROJECT: W-5601DH

CONTRACT: -

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2012 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
904.10	ORIENTATION OF GROUND MOUNTED SIGNS
904.50	MOUNTING OF TYPE 'D', 'E' AND 'F' SIGNS ON 'U' CHANNEL POSTS

PROJECT NOTES

- DISPOSAL OF SIGN SYSTEM, U-CHANNEL

GENERAL NOTES

- SIGNS FURNISHED BY STATE
- CONFIRM IN WRITING AT LEAST 4 MONTHS IN ADVANCE, THE ACTUAL DATE THE DEPARTMENT FURNISHED SIGNS WILL BE REQUIRED.
- WHEN NOT STATIONED OR DIMENSIONED ON PLANS, ALL 'E' AND 'F' SIGNS SHALL BE FIELD LOCATED BY THE ENGINEER.
- ALL EXISTING SIGNS ON "U" CHANNEL POST WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND DISPOSED OF UNLESS OTHERWISE NOTED ON PLANS.
- WHEN EXISTING SIGNS ARE REMOVED AND INSTALLED ON NEW SUPPORTS, THE RE-ERECTION SHALL IMMEDIATELY FOLLOW THE REMOVAL.
- THE BACKGROUND FOR TYPE E & F SIGNS SHALL BE GRADE C REFLECTIVE SHEETING.
- SEE ROADWAY PLANS FOR GUARD/GUIDE RAIL DETAILS.
- ALL CITY SIGNS WITHIN PROJECT LIMITS THAT ARE DISTURBED ARE TO EITHER BE REPLACED OR RELOCATED IN THE FIELD AT THE DISCRETION OF THE ENGINEER.

SUMMARY OF QUANTITIES

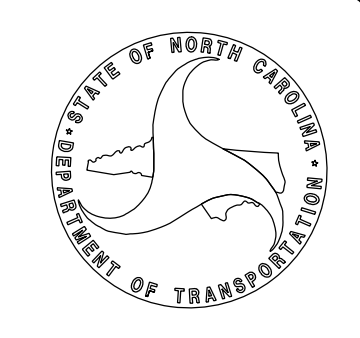
ITEM NO.		ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NO.	SECT. NO.			
4072000000	903	SUPPORTS, 3 LB STEEL U-CHANNEL	121	LF
4102000000	904	SIGN ERECTION, TYPE E	10	EA
4108000000	904	SIGN ERECTION, TYPE F	2	EA
4192000000	907	DISPOSAL OF SIGN SUPPORT, U-CHANNEL	5	EA

INDEX

SHEET NO.	DESCRIPTION
SIGN-1	SIGNING PLAN TITLE SHEET
SIGN-2	TYPE E SIGNS
SIGN-3	TYPE F SIGNS
SIGN-4	PROPOSED SIGNS

N.C.D.O.T. CONTACT INFORMATION

<u>Ayman I. Alqudwah, PE</u>	SIGNING AND DELINEATION REGIONAL ENGINEER
<u>Eric Ward</u>	SIGNING AND DELINEATION PROJECT DESIGN ENGINEER

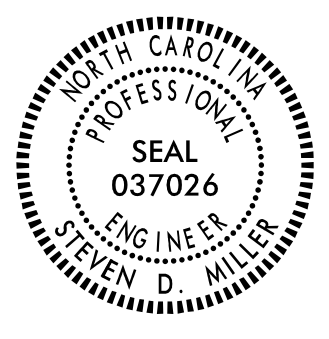


**PLAN PREPARED BY:
SEPI ENGINEERING & CONSTRUCTION**

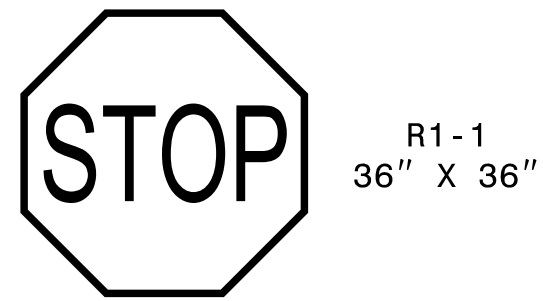
<u>Steve Miller, PE</u>	PROJECT MANAGER
<u>Robert Screws, EI</u>	DESIGN ENGINEER

SEPI
ENGINEERING & CONSTRUCTION

1025 Wade Avenue
Raleigh, NC 27605
Tel: 919-789-9977
Fax: 919-789-9591
License: C-2197

TIP NO.	SHEET NO.
W-5601DH	SIGN-2
DocuSigned by: APPROVED: Steve Miller <small>9F8C9C15CEEB486</small>	
DATE: _____	
SEAL	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

401 QUANTITY REQ'D 2



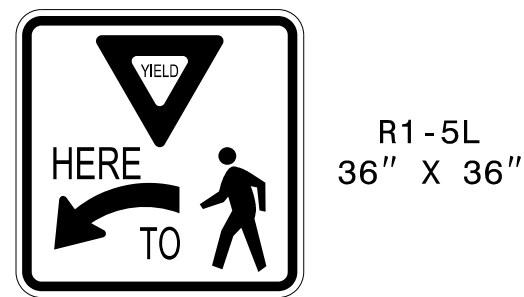
ONE "U" POSTS PER SIGN

404 QUANTITY REQ'D 2



ONE "U" POST PER SIGN

402 QUANTITY REQ'D 2



ONE "U" POSTS PER SIGN

405 QUANTITY REQ'D 2



MOUNTED BELOW SIGN 404

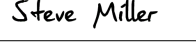
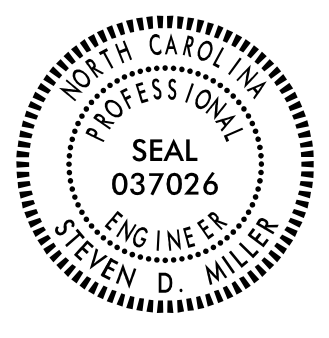
403 QUANTITY REQ'D 2



R6-1R
36" X 12"

ALL MOUNTED ABOVE SIGN 401

8/19/2021 8:51:11 AM W-5601DH-SIGN-2.dgn

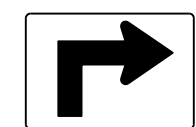
TIP NO.	SHEET NO.
W-5601DH	SIGN-3
DocuSigned by: APPROVED:  Steve Miller <small>9F8C9C15CEEB486</small>	
DATE: _____	
SEAL	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

501

NORTH 1 - 24" X 12"

BUSINESS 1 - 24" X 12"

17 1 - 24" X 24"

 1 - 21" X 15"

ONE "U" POST REQ'D

502

SOUTH 1 - 24" X 12"

BUSINESS 1 - 24" X 12"

17 1 - 24" X 24"

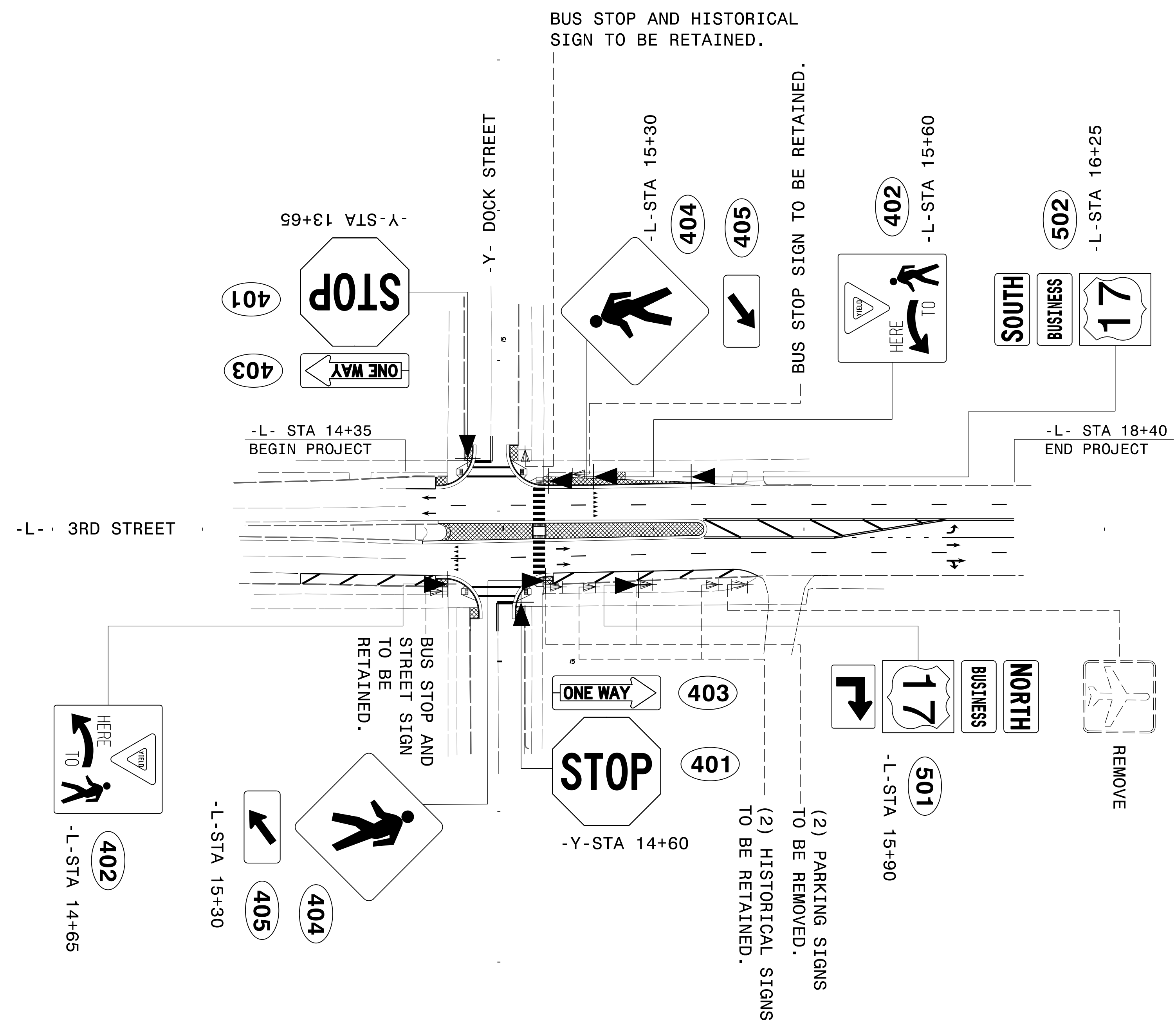
ONE "U" POST REQ'D

8/19/2021 8:51:10 AM W-5601DH-SIGN-3.dgn
USER: Brouwer

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CONSTRUCTION

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TYPE "F" SIGNS



NOTE:
ALL EXISTING NCDOT SIGNS WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND DISPOSED OF UNLESS OTHERWISE NOTED ON PLANS.

SEPI
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License: C-2197

PROPOSED SIGNS

8/19/2021 8:41 AM W-5601DH-SIGN-4.dgn

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

Approximate quantities only. Borrow excavation, fine grading, clearing and grubbing, and removal of existing pavement will be paid for at the lump sum price for "Grading".

CROSS-SECTION SUMMARY

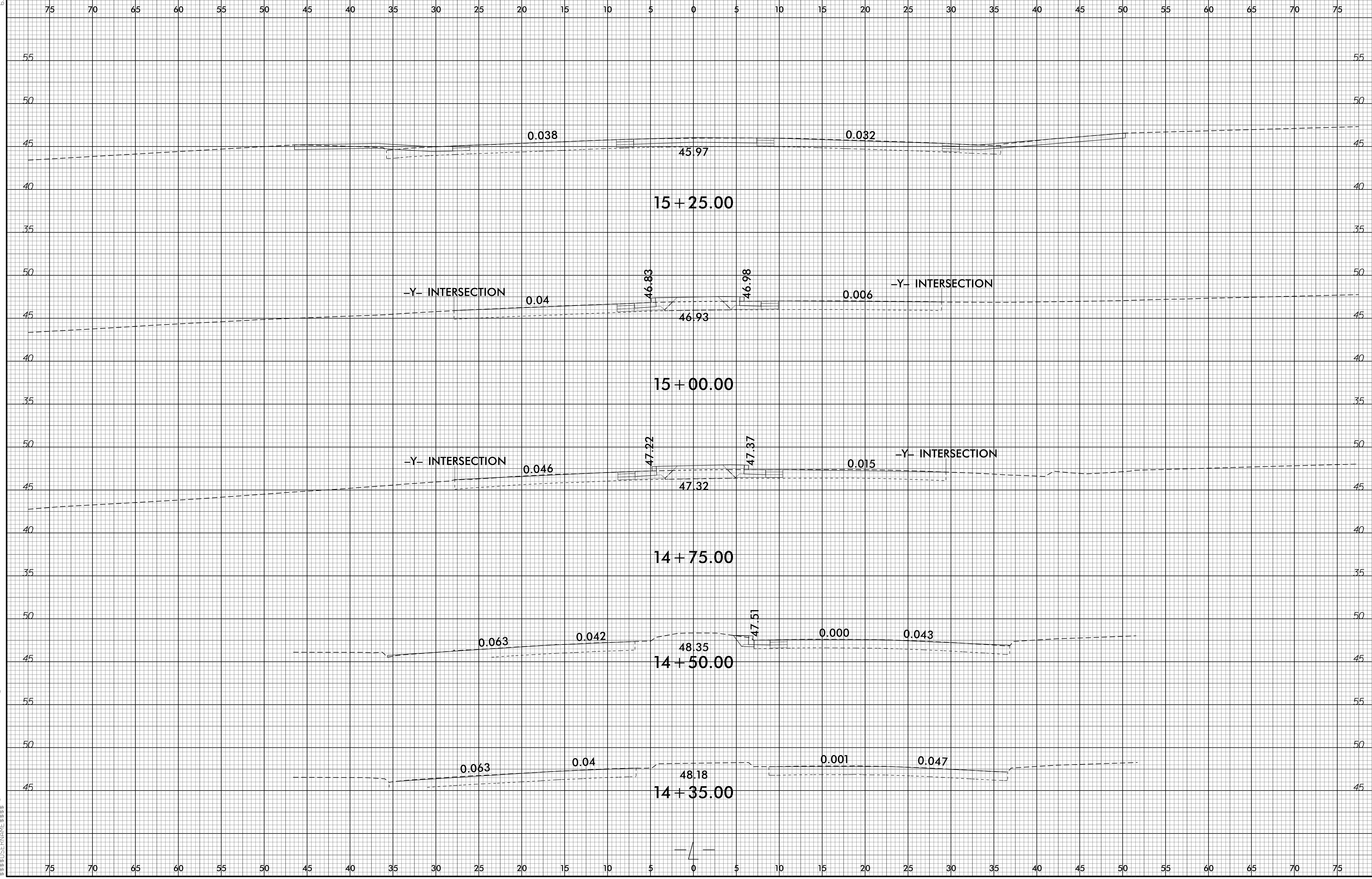
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-L-	(cu. yd.)	(cu. yd.)	-Y-	(cu. yd.)	(cu. yd.)		(cu. yd.)	(cu. yd.)		(cu. yd.)	(cu. yd.)		(cu. yd.)	(cu. yd.)		(cu. yd.)	(cu. yd.)
14+35.00	0	0	13+50.00	0	0												
14+50.00	0	0	13+75.00	0	0												
14+75.00	0	0	13+80.00	0	0												
15+00.00	0	9	14+50.00	0	0												
15+25.00	0	0	14+75.00	0	0												
15+50.00	0	23	14+80.00	0	0												
15+75.00	0	13															
16+00.00	0	10															
16+25.00	0	8															
16+50.00	0	6															
16+60.00	0	0															

6/23/16



PROJ. REFERENCE NO.
W-5601DH

SHEET NO.
X-1



02-APR-2019 14:25
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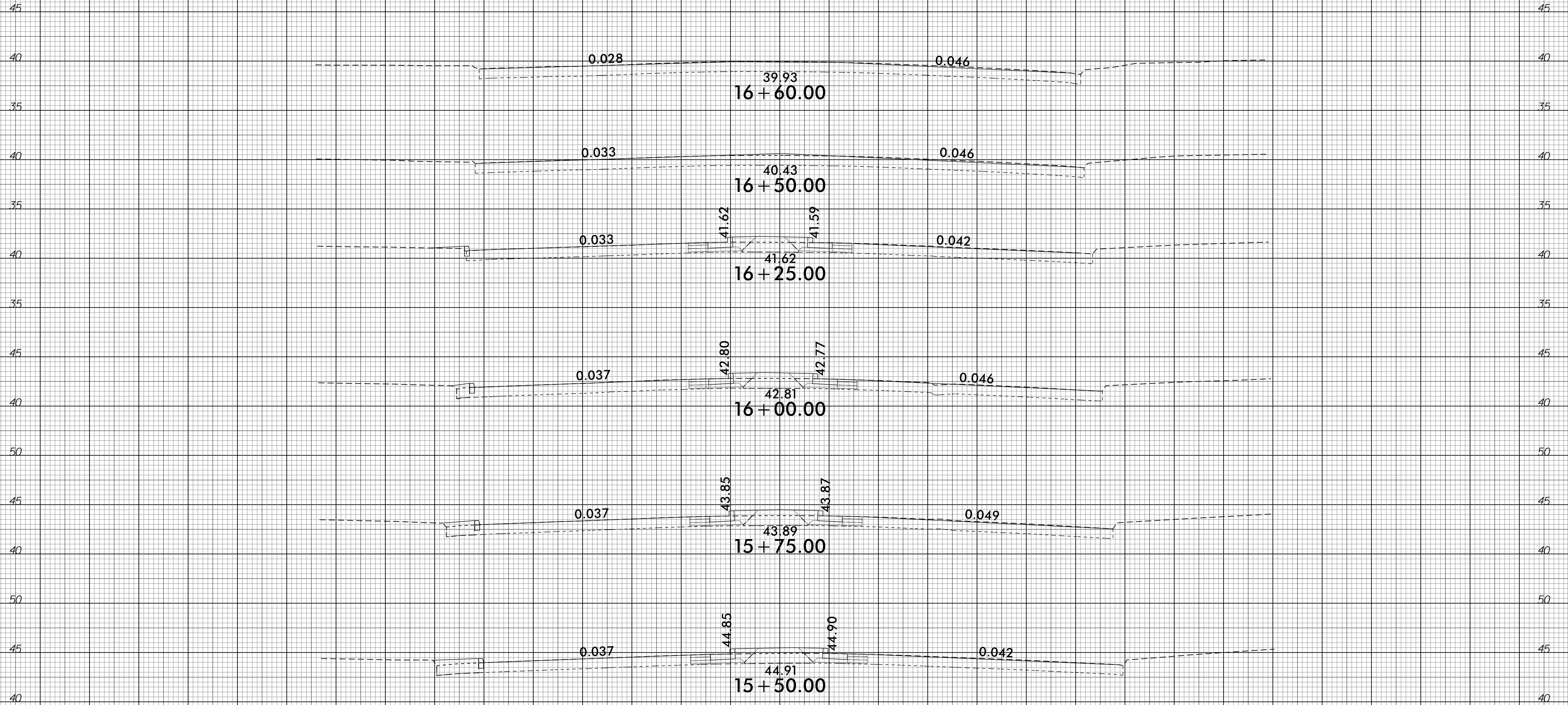
6/23/16



PROJ. REFERENCE NO.
W-5601DH

SHEET NO.
X-2

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6/23/16

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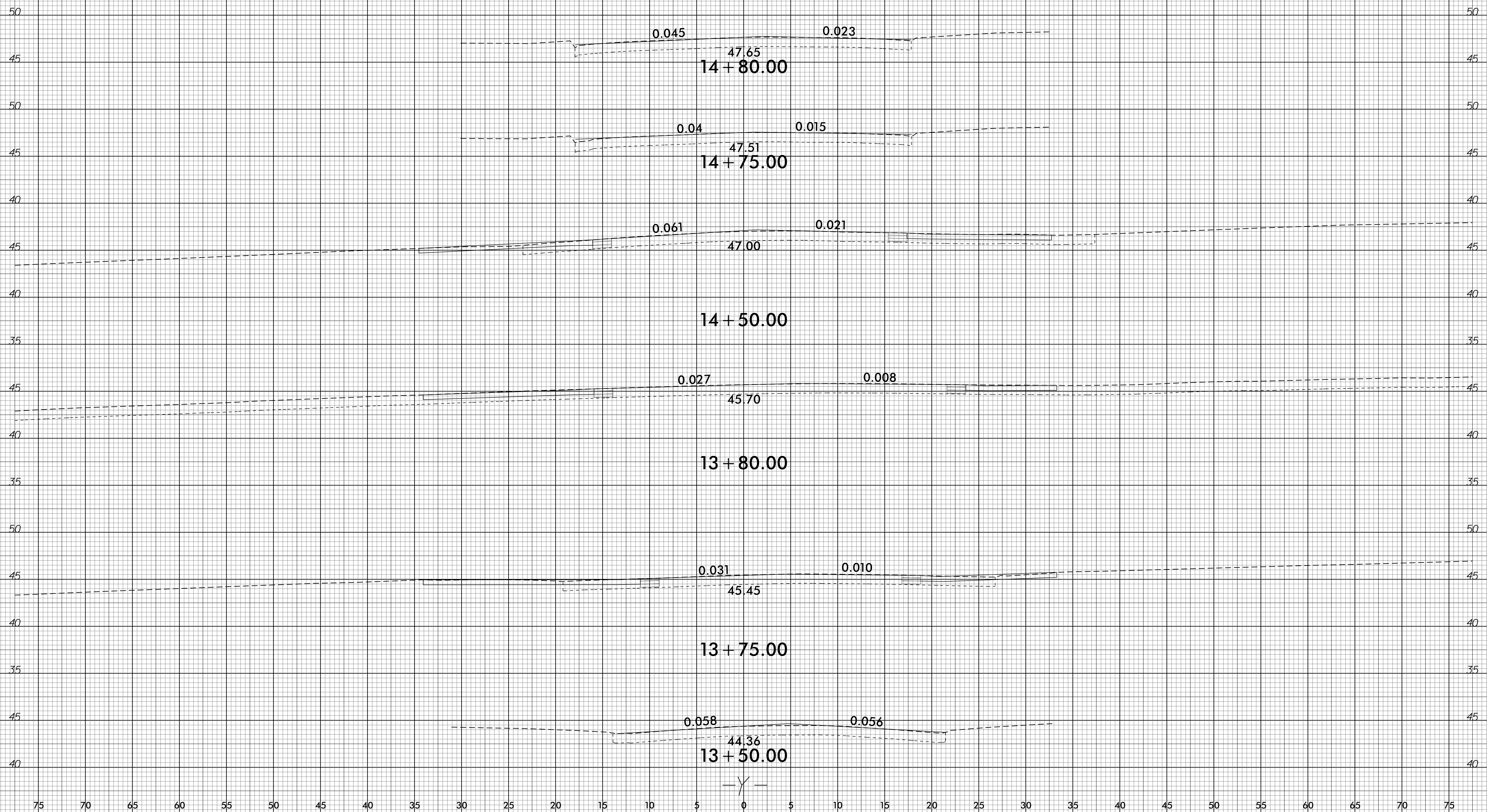
6/23/16



PROJ. REFERENCE NO.
W-5601DH

SHEET NO.
X-3

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