

09_08/24

See Sheet 1A For Index of Sheets

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	HS-2009H	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
49321.1.9	4932119	PE	
49321.3.9	4932119	CONST	

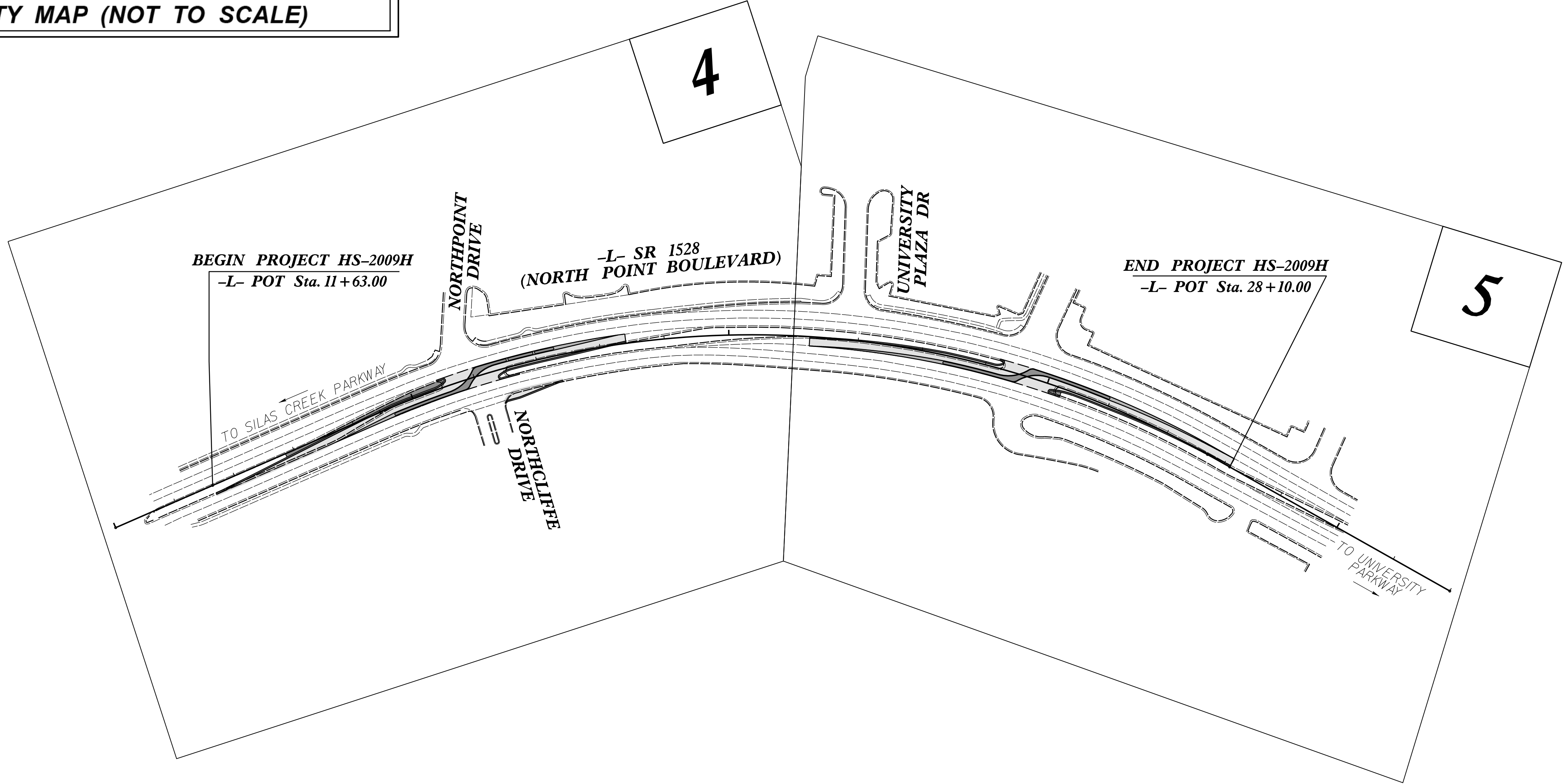
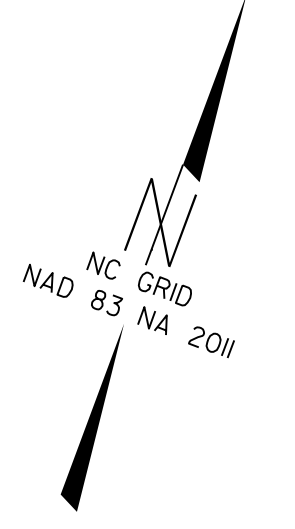
TIP PROJECT: HS-2009H

CONTRACT: DI00362



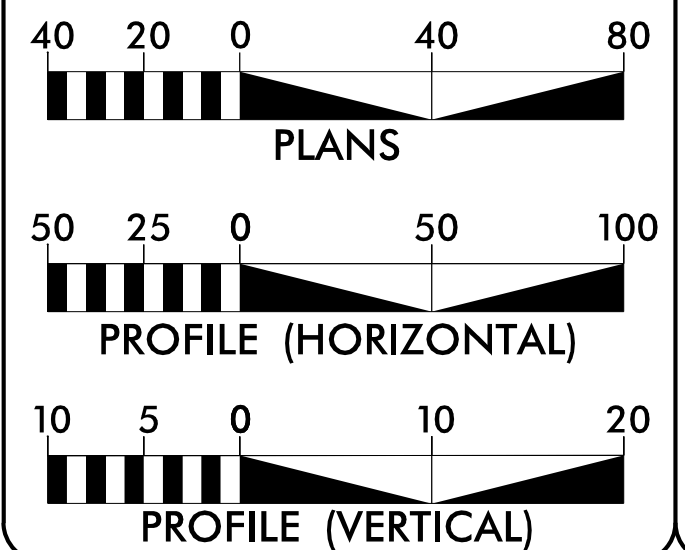
VICINITY MAP (NOT TO SCALE)

LOCATION: SR 1528 (NORTH POINT BLVD) AT UNIVERSITY PLAZA /BP GAS MAIN DRIVEWAY AND SR 1528 AT NORTHPOINT DR /NORTHCLIFFE DR
TYPE OF WORK: GRADING, DRAINAGE AND PAVING



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

GRAPHIC SCALES



DESIGN DATA

ADT 2024 = 26,000 VPD
ADT 2034 = 27,600 VPD
DESIGN SPEED = 50 MPH
POSTED SPEED = 45 MPH
FUNC CLASS =
PRINCIPAL ARTERIAL

PROJECT LENGTH

TOTAL LENGTH ROADWAY PROJECT = 0.312 MILES

Prepared In the Office of:
DIVISION OF HIGHWAYS
375 SILAS CREEK PARKWAY, WINSTON-SALEM, NC 27127

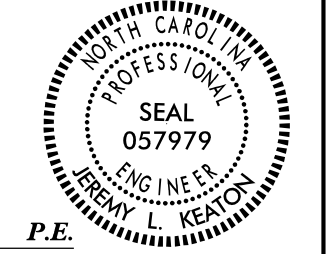
2024 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: NA
JEREMY L. KEATON, PE, PLS
PROJECT ENGINEER

LETTING DATE: OCTOBER 23, 2024
JEREMY L. KEATON, PE, PLS
PROJECT DESIGN ENGINEER

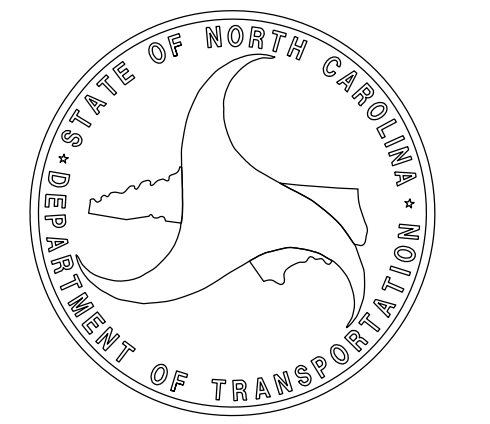
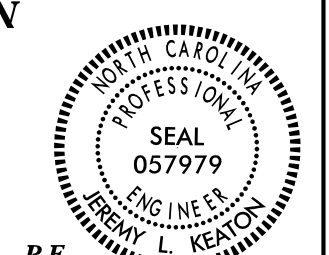
HYDRAULICS ENGINEER

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Jeremy Keaton
09/10/2024
SIGNATURE: [Signature]
P.E.



ROADWAY DESIGN ENGINEER

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Jeremy Keaton
09/10/2024
SIGNATURE: [Signature]
P.E.



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S:\Project_Development\TIP_P\Projects_HS\HS-2009H-NorthernPointBlvd-LeftOvers\Roadway\HS-2009H-ddc.tsh.dgn
\$\$\$\$\$SERNAME\$\$\$\$\$

PROJECT REFERENCE NO. <i>HS-2009H</i>	SHEET NO. <i>1A</i>
	ROADWAY DESIGN ENGINEER
	<small>DocSigned by:</small> <small>09/10/2024</small>
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
2A-1	PAVEMENT SCHEDULE AND TYPICAL SECTIONS
3B-1	ROADWAY SUMMARIES
3D-1	DRAINAGE SUMMARIES
4 THRU 5	PLAN SHEETS
RW-1	SURVEY CONTROL SHEET
PMP-1 THRU PMP-2	PAVEMENT MARKING PLANS
EC-1 THRU EC-5	EROSION CONTROL PLANS
SIGN-1 THRU SIGN-3	SIGNING PLANS
X-1 THRU X-7	CROSS-SECTIONS

GENERAL NOTES: 2024 SPECIFICATIONS
EFFECTIVE: 01-16-2024
REVISED:

GRADE LINE:
GRADING AND SURFACING:
THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. GRADE LINES MAY BE ADJUSTED AT THEIR BEGINNING AND ENDING AND AT STRUCTURES AS DIRECTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

SHOULDER CONSTRUCTION:
ASPHALT, EARTH, AND CONCRETE SHOULDER CONSTRUCTION ON THE HIGH SIDE OF SUPERELEVATED CURVES SHALL BE IN ACCORDANCE WITH STD. NO. 560.01

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.

SUBSURFACE PLANS:
NO SUBSURFACE PLANS ARE AVAILABLE ON THIS PROJECT. THE CONTRACTOR SHOULD MAKE HIS OWN INVESTIGATION AS TO THE SUBSURFACE CONDITIONS.

2024 ROADWAY ENGLISH STANDARD DRAWINGS
EFF. 01-16-2024
REV.

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	
225.02	Guide for Grading Subgrade - Secondary and Local
225.05	Method of Obtaining Superelevation - Divided Highways
DIVISION 3 - PIPE CULVERTS	
300.01	Method of Pipe Installation
DIVISION 5 - SUBGRADE, BASES AND SHOULDERS	
560.01	Method of Shoulder Construction - High Side of Superelevated Curve - Method 1
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
840.14	Concrete Drop Inlet - 12" thru 30" Pipe
840.15	Brick Drop Inlet - 12" thru 30" Pipe
840.16	Drop Inlet Frame and Grates - for use with Std. Dwg 840.14 and 840.15
840.28	Brick Grated Drop Inlet Type "D" - 12" thru 36" Pipe
840.45	Precast Drainage Structure
846.01	Concrete Curb, Gutter and Curb & Gutter
848.01	Concrete Sidewalk
852.01	Concrete Islands
852.06	Method for Placement of Drop Inlets in Concrete Islands

STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS CONVENTIONAL PLAN SHEET SYMBOLS

Note: Not to Scale

BOUNDARIES AND PROPERTY:

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin (EIP)	○
Computed Property Corner	×
Existing Concrete 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	☒
Potential Contamination Area: Soil	☒
Known Contamination Area: Water	☒
Potential Contamination Area: Water	☒
Contaminated Site: Known or Potential	☠

BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G Tank Cap	○
Sign	○
Well	○
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	WLB
Proposed Lateral, Tail, Head Ditch	-----
False Sump	▽

RAILROADS:

Standard Gauge	-----
RR Signal Milepost	○
Switch	□
RR Abandoned	-----
RR Dismantled	-----

RIGHT OF WAY & PROJECT CONTROL:

Primary Horiz Control Point	○
Primary Horiz and Vert Control Point	●
Secondary Horiz and Vert Control Point	◆
Vertical Benchmark	⊕
Existing Right of Way Monument	△
Proposed Right of Way Monument (Rebar and Cap)	▲
Proposed Right of Way Monument (Concrete)	▲
Existing Permanent Easement Monument	◇
Proposed Permanent Easement Monument (Rebar and Cap)	◆
Existing C/A Monument	△
Proposed C/A Monument (Rebar and Cap)	▲
Proposed C/A Monument (Concrete)	▲
Existing Right of Way Line	-----
Proposed Right of Way Line	-----
Existing Control of Access Line	-----
Proposed Control of Access Line	-----
Proposed ROW and CA Line	-----
Existing Easement Line	-----
Proposed Temporary Construction Easement	E
Proposed Temporary Drainage Easement	TDE
Proposed Permanent Drainage Easement	PDE
Proposed Permanent Drainage/Utility Easement	DUE
Proposed Permanent Utility Easement	PUE
Proposed Temporary Utility Easement	TUE
Proposed 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	□
Proposed Cable Guiderail	□
Equality Symbol	⊕
Pavement Removal	⊗
VEGETATION:	
Single Tree	○
Single Shrub	○
Hedge	-----

Woods Line	-----
Orchard	○
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	○
Storm Sewer	S

UTILITIES:

* SUE - Subsurface Utility Engineering
LOS - Level of Service - A,B,C or D (Accuracy)

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	PH
H-Frame Pole	●
U/G Power Line Test Hole (SUE - LOS A)*	⊗
U/G Power Line (SUE - LOS B)*	P
U/G Power Line (SUE - LOS C)*	P
U/G Power Line (SUE - LOS D)*	P

TELEPHONE:

Existing Telephone Pole	●
Proposed Telephone Pole	○
Telephone Manhole	○
Telephone Pedestal	⊕
Telephone Cell Tower	⊕
U/G Telephone Cable Hand Hole	PH
U/G Telephone Test Hole (SUE - LOS A)*	⊗
U/G Telephone Cable (SUE - LOS B)*	T
U/G Telephone Cable (SUE - LOS C)*	T
U/G Telephone Cable (SUE - LOS D)*	T
U/G Telephone Conduit (SUE - LOS B)*	TC
U/G Telephone Conduit (SUE - LOS C)*	TC
U/G Telephone Conduit (SUE - LOS D)*	TC
U/G Fiber Optics Cable (SUE - LOS B)*	TF
U/G Fiber Optics Cable (SUE - LOS C)*	TF
U/G Fiber Optics Cable (SUE - LOS D)*	TF

WATER:

Water Manhole	○
Water Meter	○
Water Valve	⊗
Water Hydrant	⊕
U/G Water Line Test Hole (SUE - LOS A)*	⊗
U/G Water Line (SUE - LOS B)*	P
U/G Water Line (SUE - LOS C)*	P
U/G Water Line (SUE - LOS D)*	P
Above Ground Water Line	A/G Water
TV:	
TV Pedestal	⊕
TV Tower	⊗
U/G TV Cable Hand Hole	PH
U/G TV Test Hole (SUE - LOS A)*	⊗
U/G TV Cable (SUE - LOS B)*	TV
U/G TV Cable (SUE - LOS C)*	TV
U/G TV Cable (SUE - LOS D)*	TV
U/G Fiber Optic Cable (SUE - LOS B)*	TV FO
U/G Fiber Optic Cable (SUE - LOS C)*	TV FO
U/G Fiber Optic Cable (SUE - LOS D)*	TV FO

GAS:

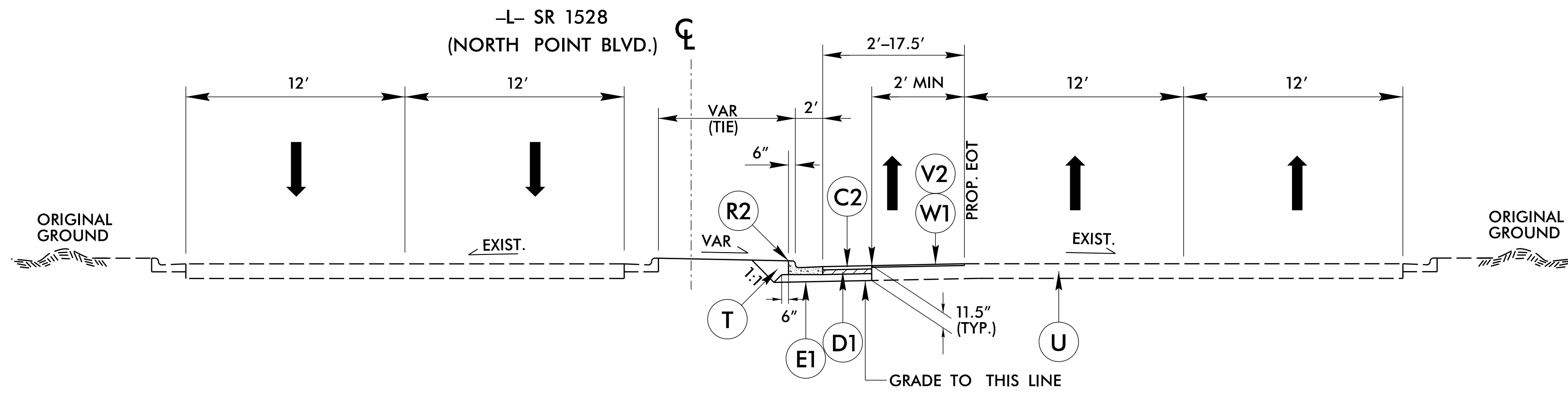
Gas Valve	◇
Gas Meter	⊕
U/G Gas Line Test Hole (SUE - LOS A)*	⊗
U/G Gas Line (SUE - LOS B)*	G
U/G Gas Line (SUE - LOS C)*	G
U/G Gas Line (SUE - LOS D)*	G
Above Ground Gas Line	A/G Gas

SANITARY SEWER:

Sanitary Sewer Manhole	⊕
Sanitary Sewer Cleanout	⊕
U/G Sanitary Sewer Line	SS
Above Ground Sanitary Sewer	A/G Sanitary Sewer
SS Force Main Line Test Hole (SUE - LOS A)*	⊗
SS Force Main Line (SUE - LOS B)*	FSS
SS Force Main Line (SUE - LOS C)*	FSS
SS Force Main Line (SUE - LOS D)*	FSS

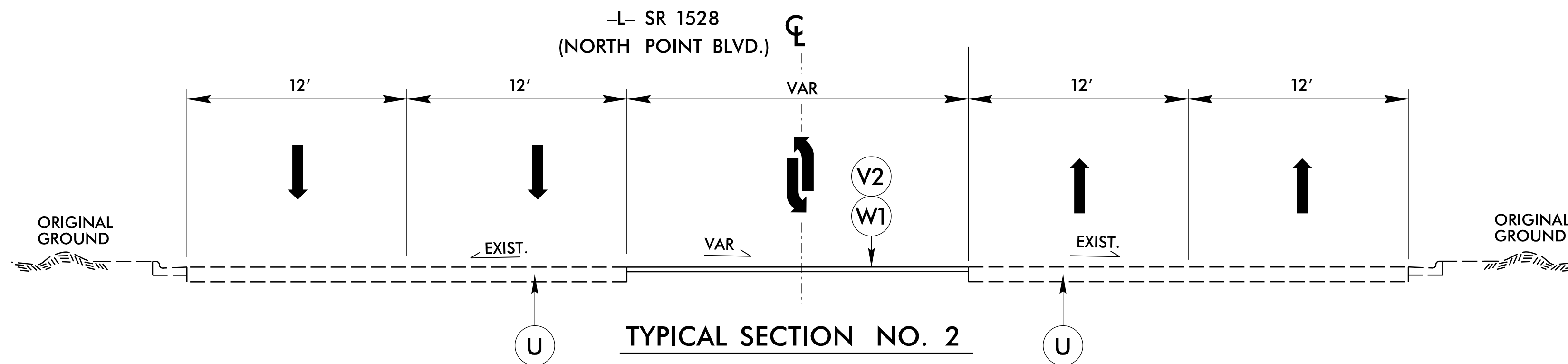
MISCELLANEOUS:

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



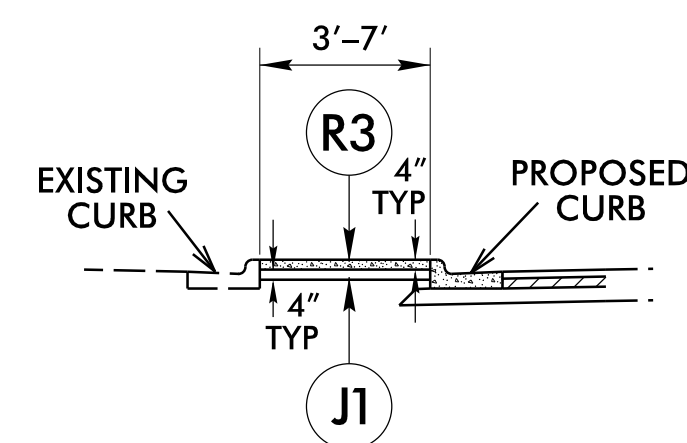
TYPICAL SECTION NO. 1

-L- STA. 11+63 TO STA. 15+55
 -L- STA. 16+38 TO STA. 18+41 (MIRRORED)
 -L- STA. 21+25 TO STA. 24+26
 -L- STA. 25+07 TO STA. 28+10 (MIRRORED)
 NOTES:
 -SEE PLAN SHEETS AND CROSS SECTIONS FOR DETAILS



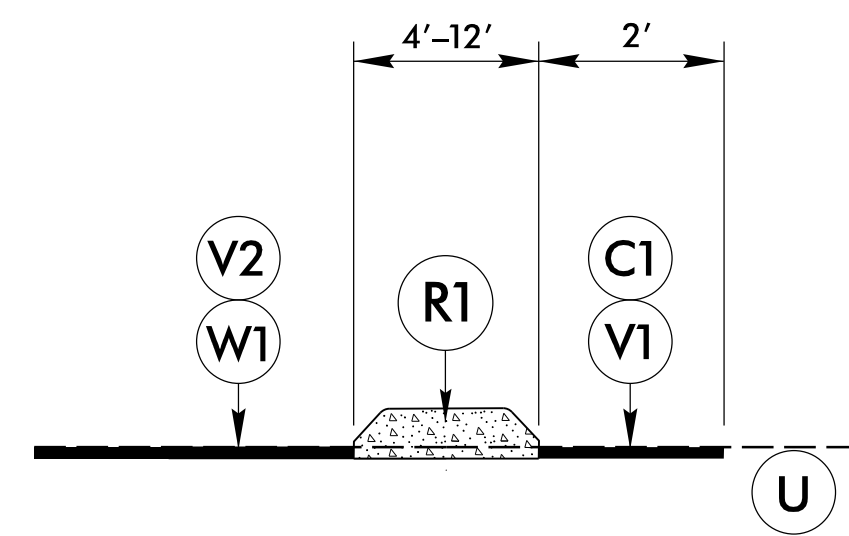
TYPICAL SECTION NO. 2

-L- STA. 15+55 TO STA. 16+38
 -L- STA. 24+26 TO STA. 25+07
 NOTES:
 -SEE PLAN SHEETS AND CROSS SECTIONS FOR DETAILS



4" CONCRETE COVER DETAIL

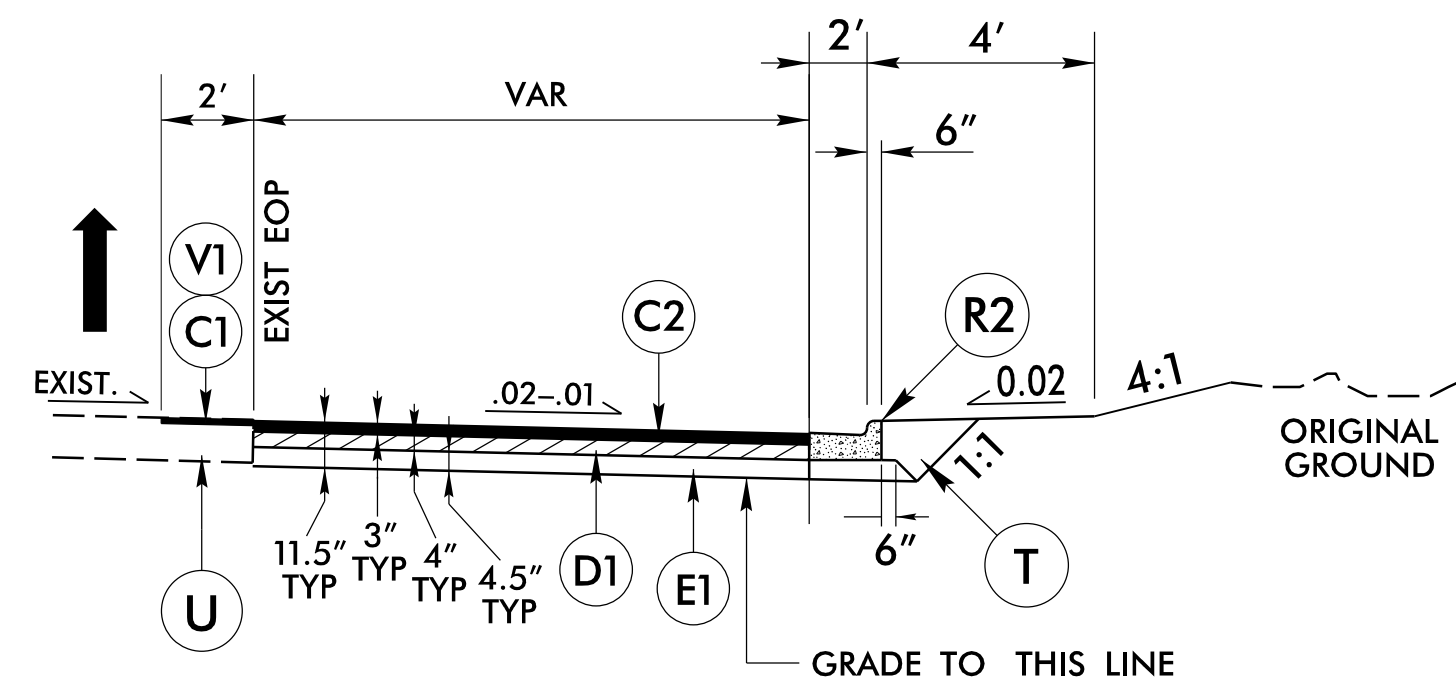
-L- STA. 12+86 TO STA. 15+55
 -L- STA. 25+07 TO STA. 25+25
 NOTES:
 -TO BE USED IN CONJUNCTION WITH
 TYPICAL SECTION NO. 1



KEYED IN MONOLITHIC ISLAND DETAIL

-L- STA. 14+65 TO STA. 17+30
 -L- STA. 23+35 TO STA. 25+98

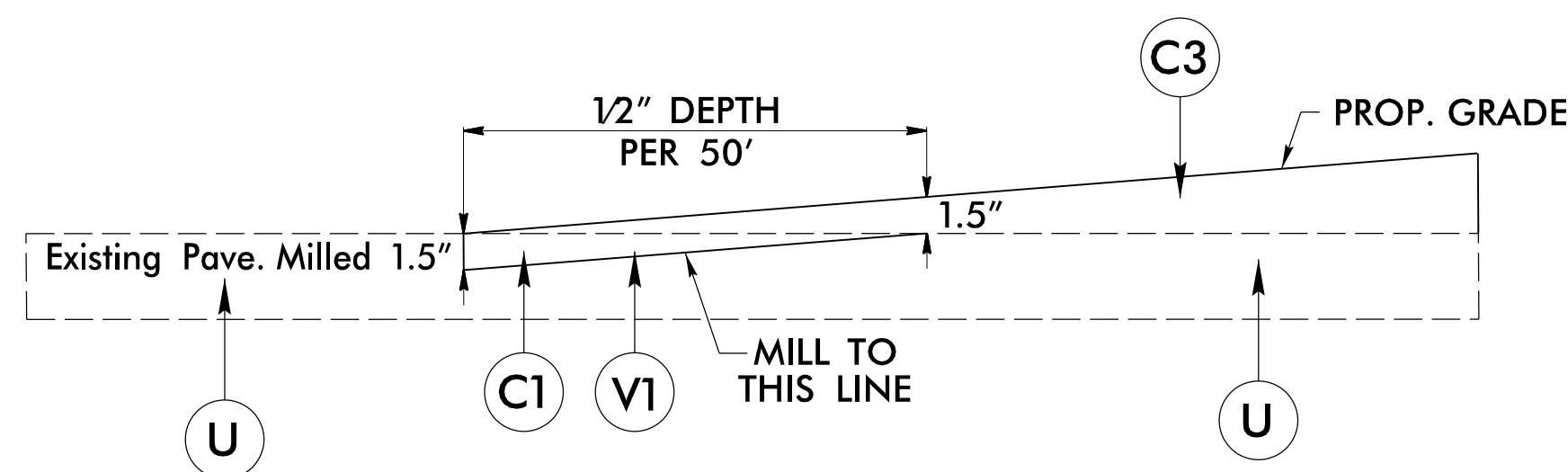
NOTES:
 -TO BE USED IN CONJUNCTION WITH TYPICAL SECTION NO. 1 & 2
 -SEE PLAN SHEETS AND CROSS SECTIONS FOR DETAILS



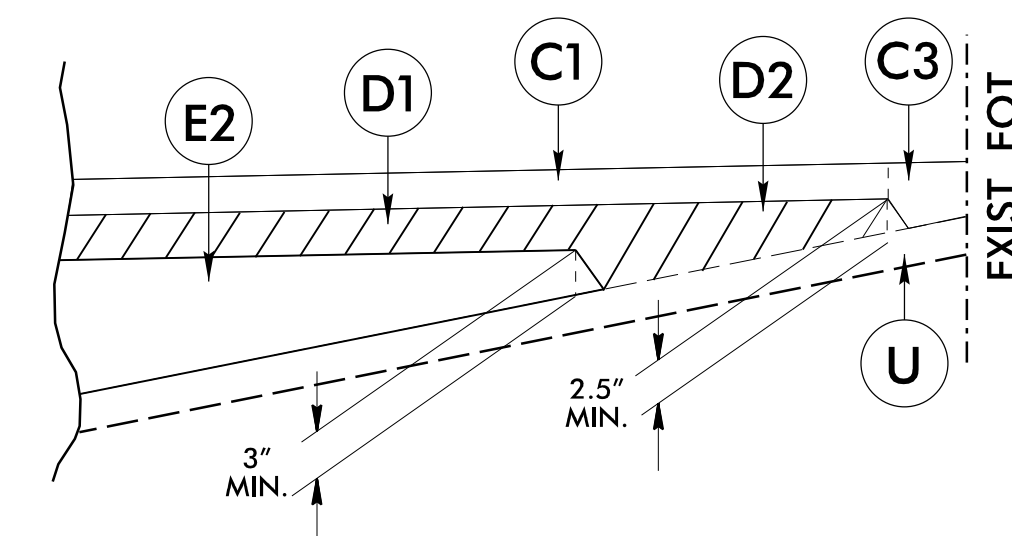
TURN AROUND DETAIL

-L- STA. 16+35 RT TO STA. 17+33 RT

NOTES:
 -TO BE USED IN CONJUNCTION WITH TYPICAL SECTION NO. 1
 -SEE PLAN SHEETS AND CROSS SECTIONS FOR DETAILS



**Detail for Incidental Milling
of Existing Pavement**



Detail Showing Method of Wedging

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
C3	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT NOT TO EXCEED 2" IN DEPTH.
D1	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
D2	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 2 1/2" IN DEPTH OR GREATER THAN 4" IN DEPTH.
E1	PROP. APPROX. 4 1/2" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 513 LBS. PER SQ. YD.
E2	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 3" IN DEPTH OR GREATER THAN 5.5" IN DEPTH.
J1	4" STONE BASE
R1	5" MONOLITHIC CONCRETE ISLAND (KEYED-IN).
R2	2'6" CONCRETE CURB & GUTTER
R3	4" CONCRETE COVER
U	EXISTING PAVEMENT.
V1	MILLING ASPHALT PAVEMENT (1.5")
V2	VARIABLE DEPTH MILLING ASPHALT PAVEMENT (1.5"-4" DEPTH)
W1	VARIABLE DEPTH ASPHALT PAVEMENT (SEE WEDGING DETAIL)

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE. SEE PLANS FOR LOCATION OF CONCRETE ISLANDS.

REVISIONS

8/17/99

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 15-NORTH POINT BLVD - L&T OVER A 1 ROADWAY

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SUMMARY OF EARTHWORK
IN CUBIC YARDS

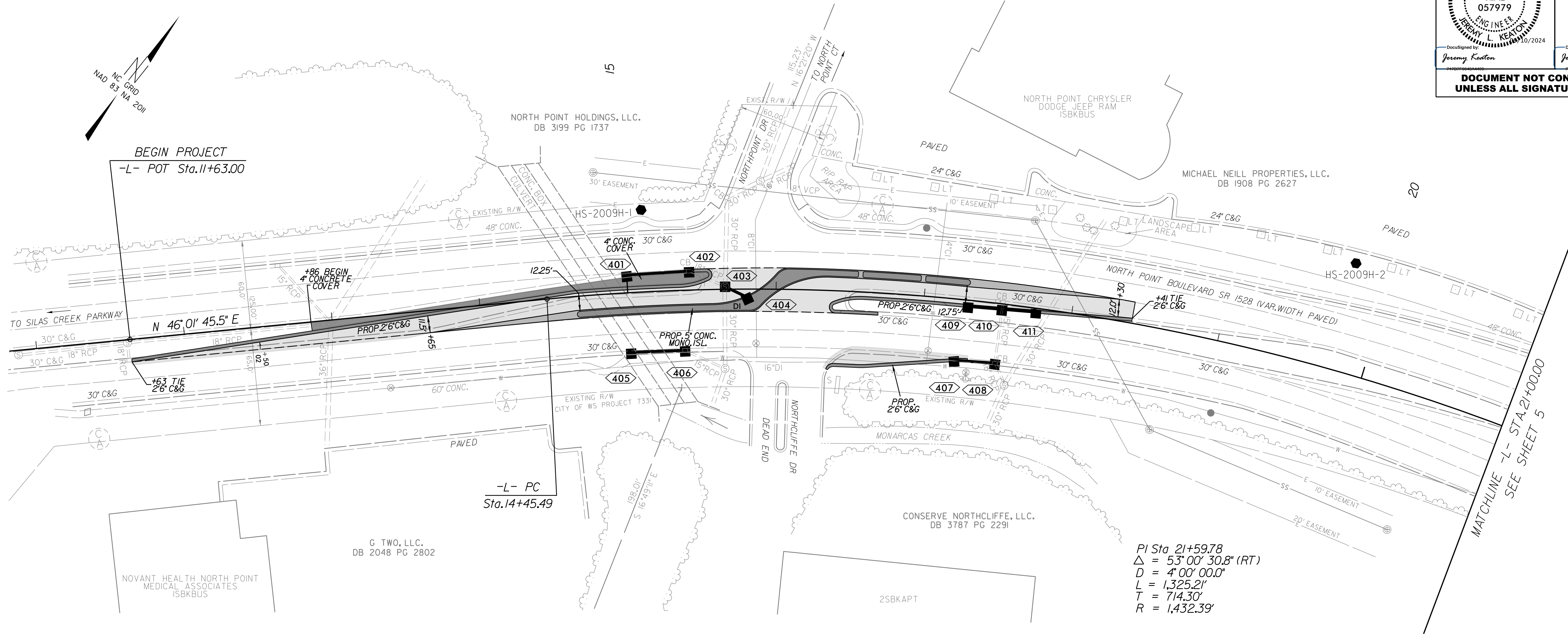
STATION	STATION	UNCL. EXCAV.	UNDERCUT (CONTINGENCY)	EMBANK. +20%	BORROW	WASTE
11+63	28+10	630		130		500
SHALLOW UNDERCUT (CONTINGENCY)			50			50
SUBTOTAL		630	50	130		550
10% CONTINGENCY						
GRAND TOTALS		693	55	143		605
SAY		700	60	150		610

NOTE: APPROXIMATE QUANTITIES ONLY. UNCLASSIFIED EXCAVATION, BORROW EXCAVATION, CLEARING & GRUBBING AND REMOVAL OF EXISTING PAVEMENT WILL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR GRADING.

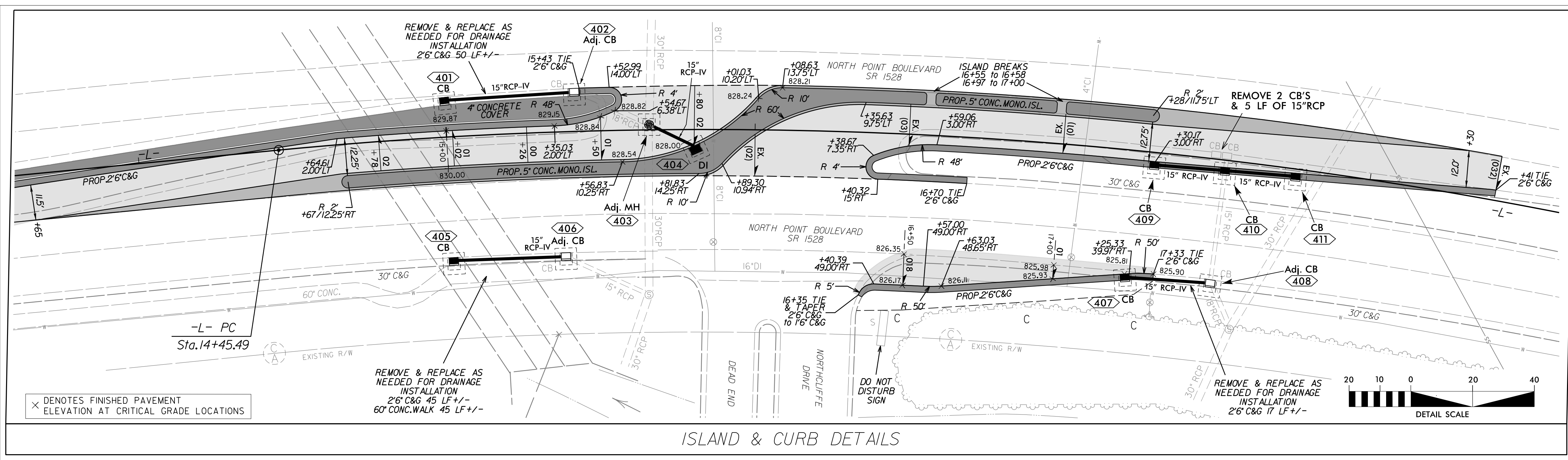
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10 SEP 2024 14:42
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USER: JKEATON

NOTE: SEE X-1 TO X-4 FOR CROSS SECTIONS

NOTE: RETAIN EX. DRAINAGE UNLESS OTHERWISE NOTED



PI Sta 21+59.78
 $\Delta = 53^{\circ}00'30.8''$ (RT)
 $D = 4^{\circ}00'00.0''$
 $L = 1,325.21'$
 $T = 714.30'$
 $R = 1,432.39'$



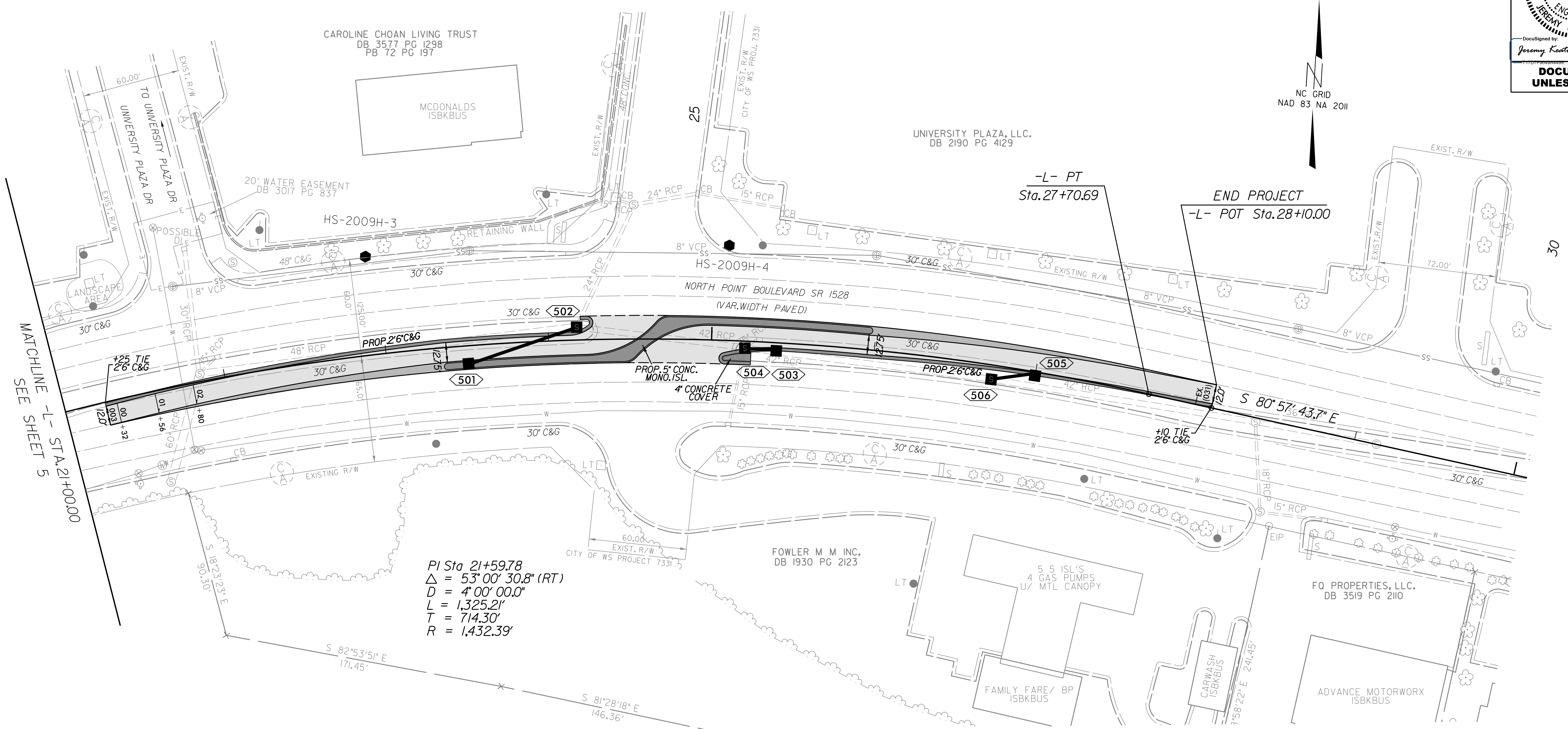
ISLAND & CURB DETAILS

REVISIONS

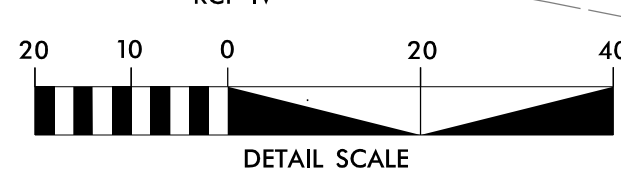
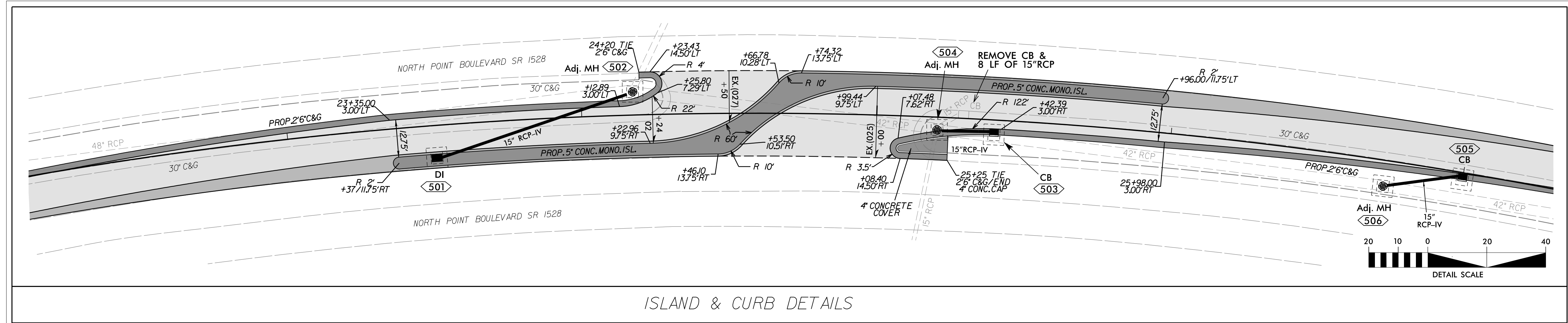
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 JERRY L. KEATON

NOTE: SEE X-4 TO X-7 FOR CROSS SECTIONS

NOTE: RETAIN EX. DRAINAGE UNLESS OTHERWISE NOTED



PI Sta 21+59.78
 $\Delta = 53^{\circ} 00' 30.8'' (RT)$
 $D = 4^{\circ} 00' 00.0''$
 $L = 1,325.21'$
 $T = 714.30'$
 $R = 1,432.39'$



ISLAND & CURB DETAILS

REVISIONS

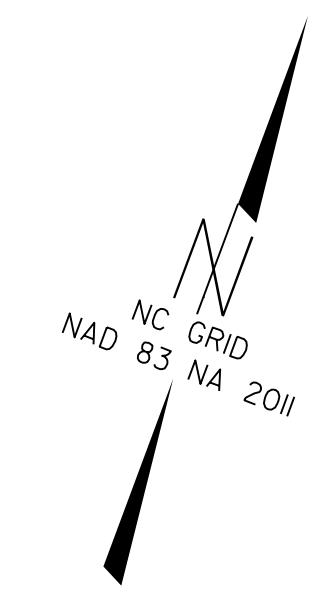
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 JERRY L. KEATON

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	HS-2009H	RW-1	1

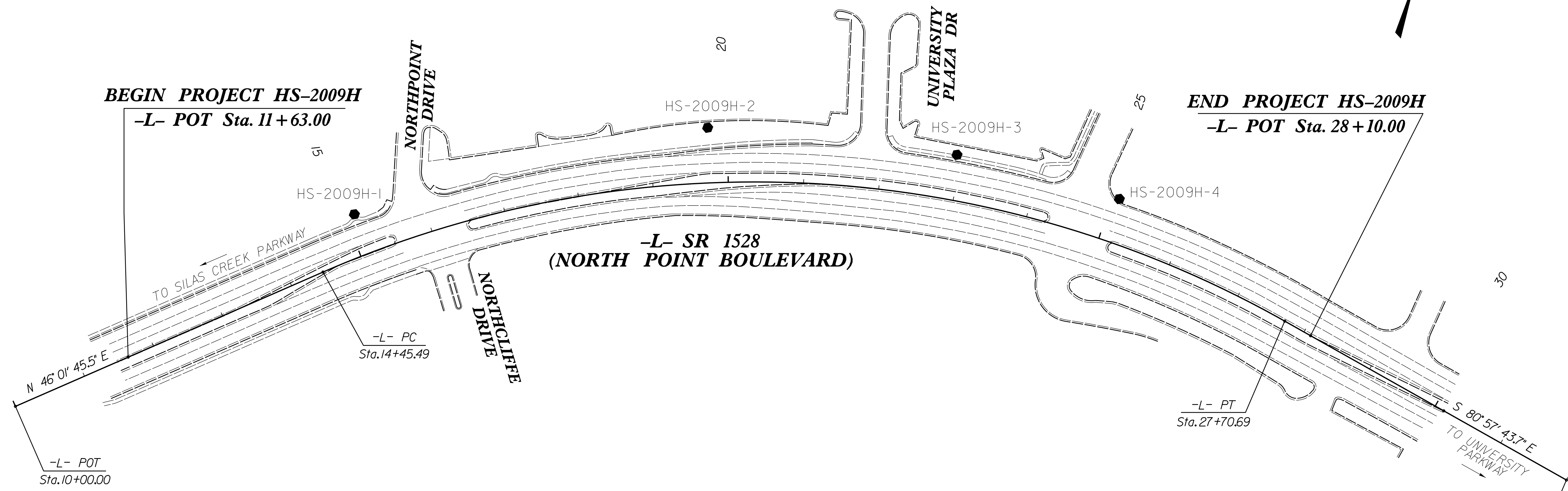
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SURVEY CONTROL,
EXISTING / PROPOSED CENTERLINES

FORSYTH COUNTY

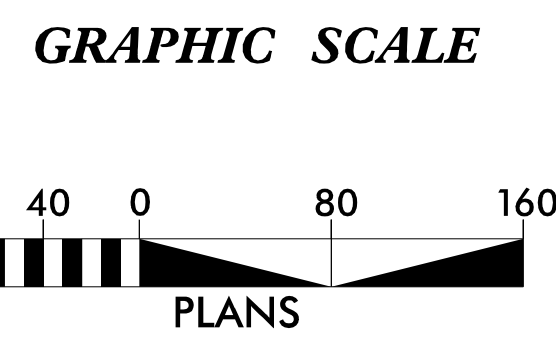


TIP PROJECT: HS-2009H



CONTROL POINTS					
BL	POINT	DESC.	NORTH	EAST	ELEVATION
1	HS-2009H-1		876103.9300	1620479.7980	831.29
2	HS-2009H-2		876375.1280	1620879.4040	833.75
3	HS-2009H-3		876456.6810	1621202.2040	839.18
4	HS-2009H-4		876476.8190	1621424.6120	844.62

PROPOSED ALIGNMENT (EXISTING RETAINED)			
	L	NORTH	EAST
POT	10+00.00	875708.2541	1620146.8763
PC	14+45.49	876017.5501	1620467.4896
PT	27+70.69	876401.2728	1621686.9942
POT	32+00.00	876333.8345	1622110.9694



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "HS-2009H-2" WITH NAD 83/NSRS 2011 STATE PLANE GRID COORDINATES OF NORTHING: 876375.1280 (ft) EASTING: 1620879.4040 (ft) ELEVATION: 833.75(ft)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99996100

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "HS-2009H-2" TO -L- STATION 10+00.00 IS S 47°41'10.0" W 990.615(ft)

ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88

Prepared in the Office of:

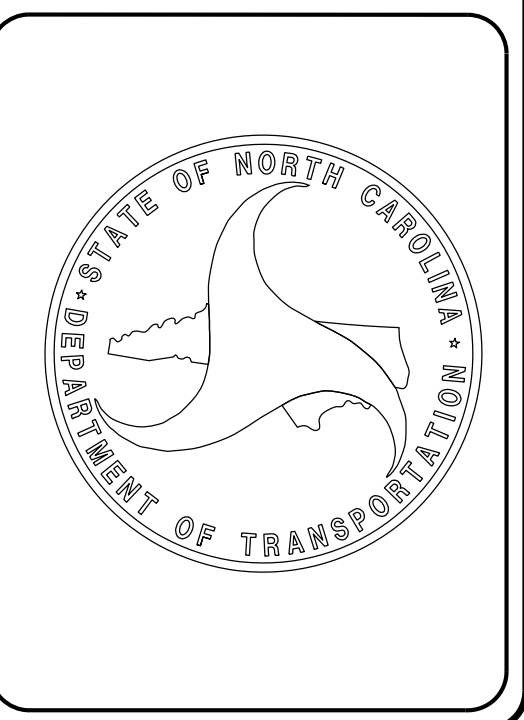
DIVISION OF HIGHWAYS
NINTH DIVISION DESIGN/CONSTRUCT
375 SILAS CREEK PARKWAY WINSTON-SALEM, N.C. 27127

2024 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: N/A	LETTING DATE: OCTOBER 23, 2024
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PROFESSIONAL LAND SURVEYOR

Date: 09/30/2024

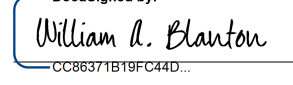
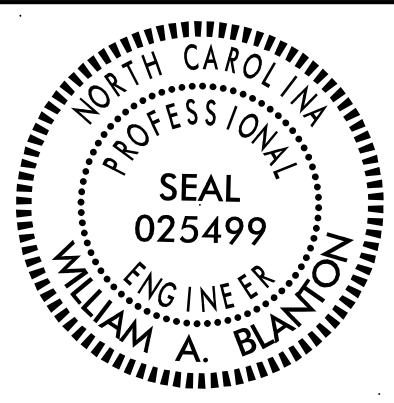


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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN
FORSYTH COUNTY

LOCATION: SR 1528 (NORTH POINT BLVD) AT UNIVERSITY PLAZA/
BP GAS MAIN DRIVEWAY AND SR 1528 AT NORTHPOINT DR/NORTHCLIFFE DR

TIP NO.	SHEET NO.
HS-2009H	PMP-1
APPROVED: 	
DATE: 09/10/2024	
SEAL	
	

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 TYPE	MARKERS
SR 1528 (-L-)	Thermoplastic w/Highly Reflective Elements	

(All Stop Bars, Arrow Symbols, and Diagonal lines shall be Thermoplastic)

- B) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES. (*)
C) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.
D) STOPBAR 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.

FINAL PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION	QUANTITY
THERMOPLASTIC (4", 90 MILS)		
T1	WHITE EDGELINE	615 LF
T10	YELLOW EDGELINE	475 LF
T14	2 FT. - 6 FT./SP YELLOW MINISKIP	230 LF
T4	3 FT. - 9 FT./SP WHITE MINISKIP	215 LF
THERMOPLASTIC (8", 90 MILS)		
T40	WHITE GORELINE	1250 LF
T41	WHITE DIAGONAL	110 LF
THERMOPLASTIC PAVEMENT MARKING SYMBOLS (90 MILS)		
T70	LEFT TURN ARROW	10 EA

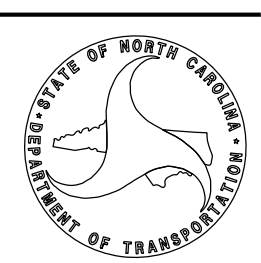
ROADWAY STANDARD DRAWING

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2024 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.08	PAVEMENT MARKINGS - ARROW SYMBOLS
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.15	PAVEMENT MARKINGS - REDUCED CONFLICT INTERSECTIONS

PLAN PREPARED BY: N.C.D.O.T. DIVISION 9 DDC

WILLIAM A. BLANTON DIVISION 9 PROJECT TEAM LEAD



INDEX

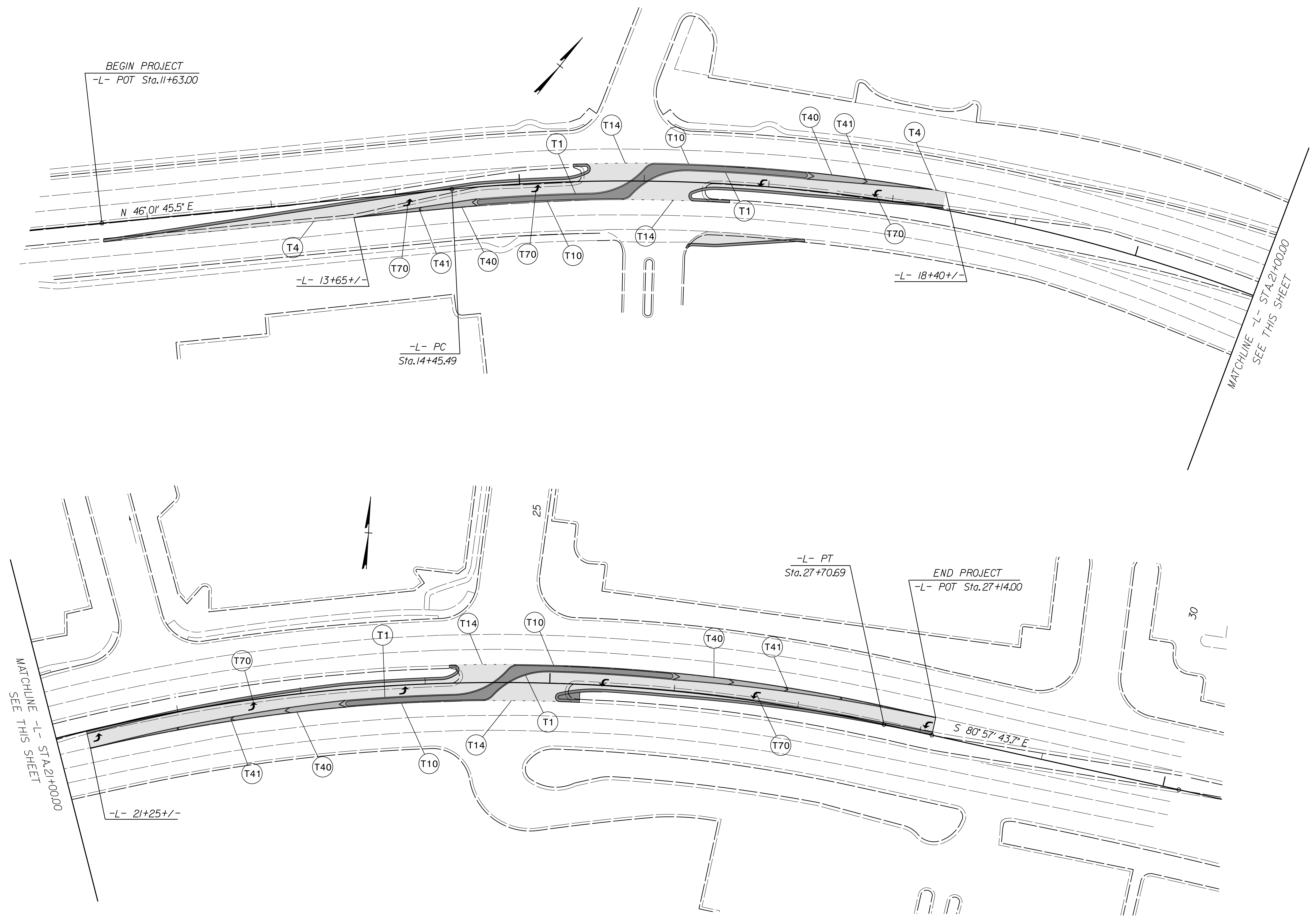
SHEET NO.	DESCRIPTION
PMP-1	PAVEMENT MARKING PLAN TITLE AND SCHEDULE SHEET
PMP-2	PAVEMENT MARKING DETAILS

REVISIONS

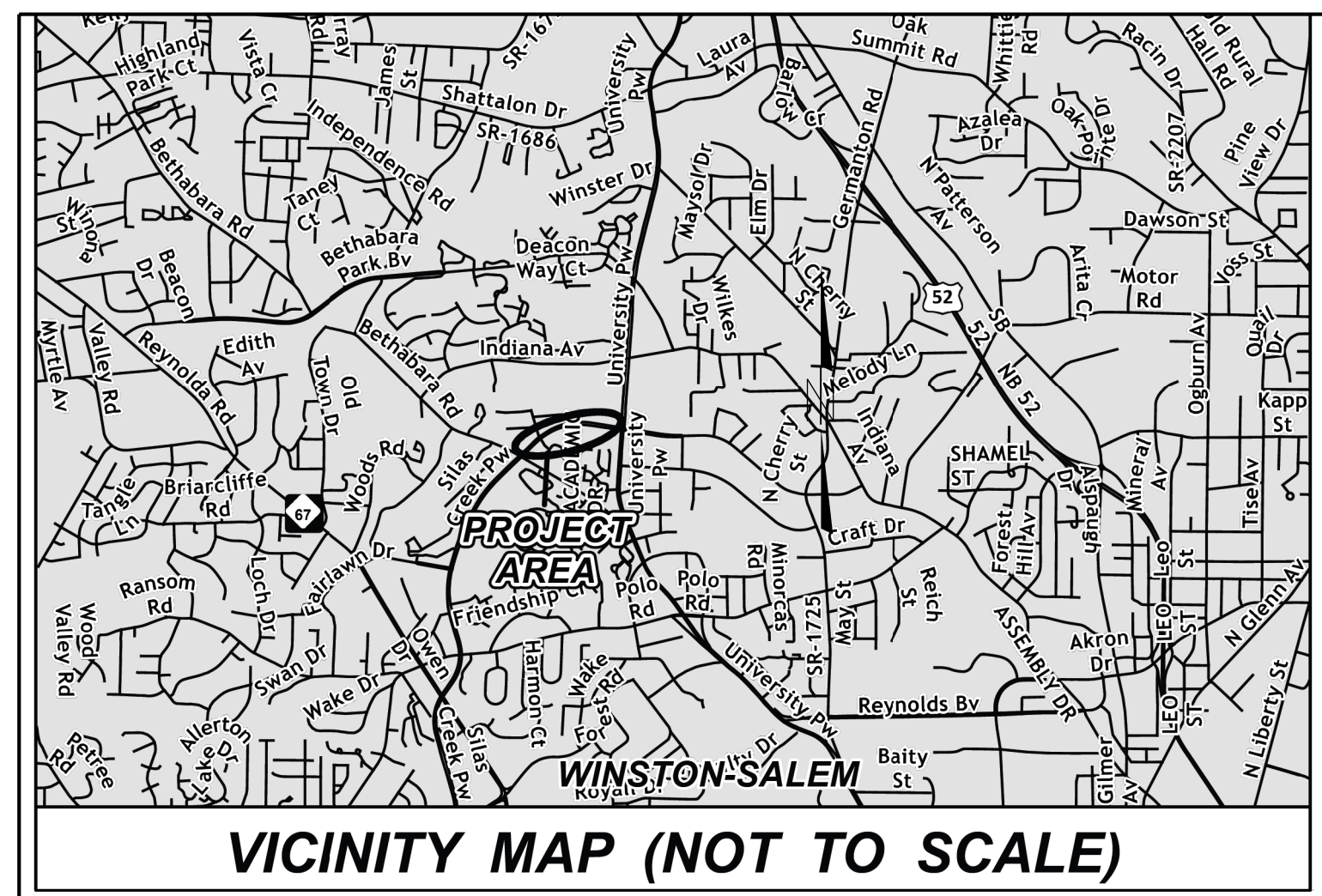
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REVISIONS



PROJECT: HS-2009H

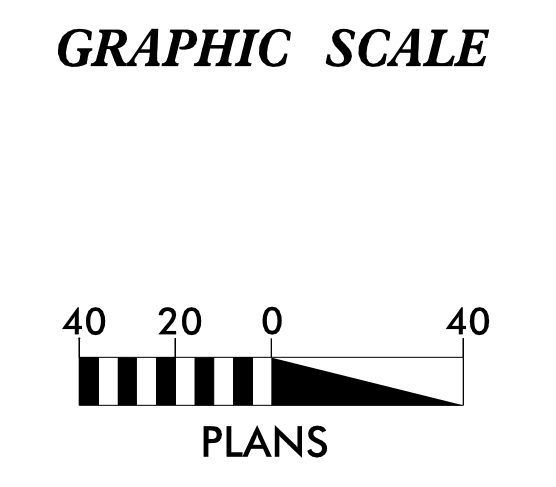
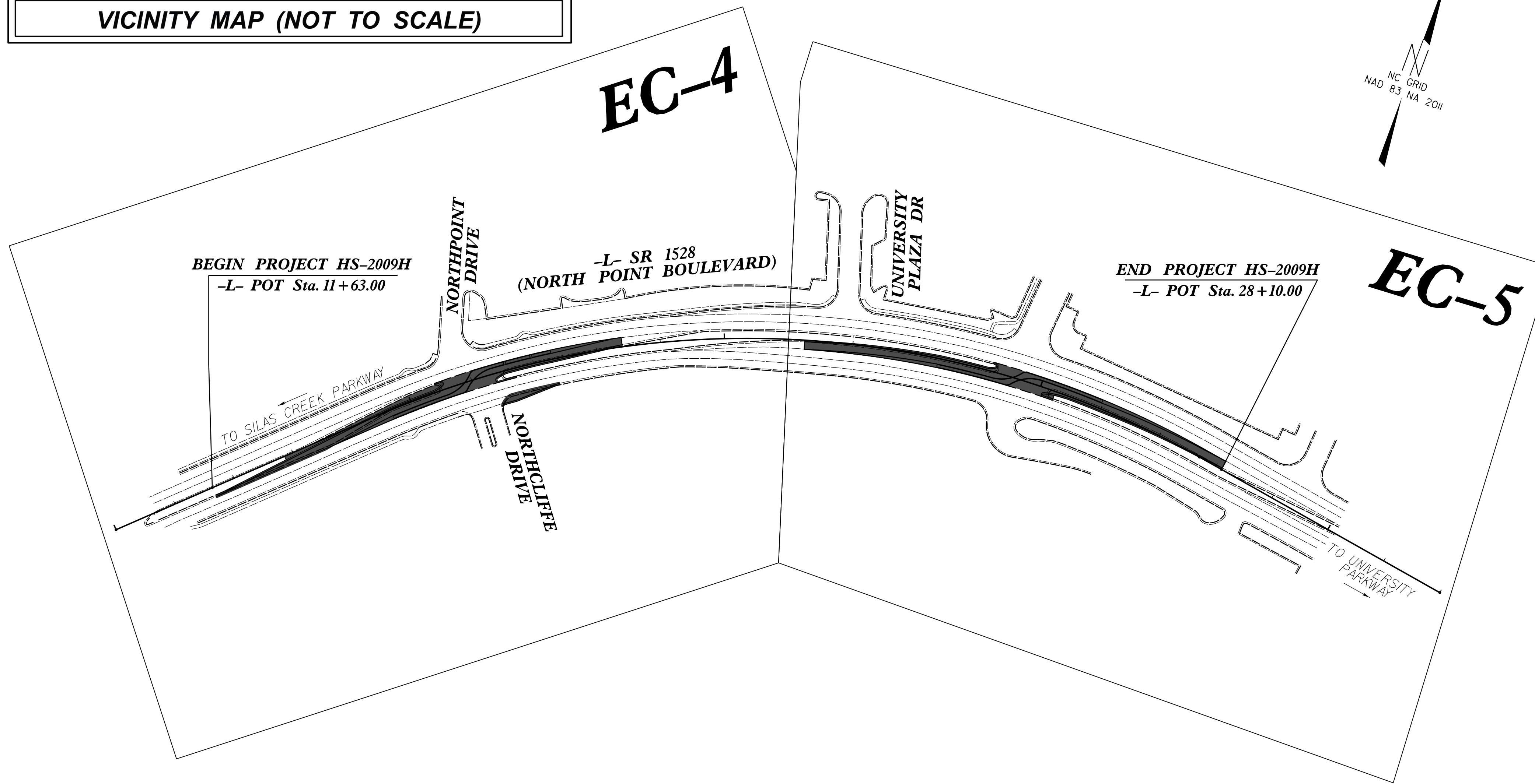


STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS PLAN FOR PROPOSED HIGHWAY EROSION CONTROL **FORSYTH COUNTY**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	HS-2009H	EC-1	5
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
49321.1.9	4932119	PE	
49321.3.9	4932119	CONST	

EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	
1630.05	Temporary Diversion	
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	
1622.01	Temporary Berms and Slope Drains	
1630.02	Silt Basin Type B	
1633.01	Temporary Rock Silt Check Type-A	
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	
1635.02	Temporary Rock Silt Check Type-B	
	Wattle / Coir Fiber Wattle	
	Wattle / Coir Fiber Wattle with Polyacrylamide (PAM)	
1634.01	Temporary Rock Sediment Dam Type-A	
1634.02	Temporary Rock Sediment Dam Type-B	
1635.01	Rock Pipe Inlet Sediment Trap Type-A	
1635.02	Rock Pipe Inlet Sediment Trap Type-B	
1630.04	Stilling Basin	
1630.06	Special Stilling Basin	
	Rock Inlet Sediment Trap:	
1632.01	Type A	
1632.02	Type B	
1632.03	Type C	
	Skimmer Basin	
	Tiered Skimmer Basin	
	Infiltration Basin	



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

Prepared in the Office of:
DIVISION 9 DDC
375 Silas Creek Parkway
Winston-Salem, NC 27127

2024 STANDARD SPECIFICATIONS

Designed by:
Jeremy L. Keaton, PE, PLS **3497**
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 2024 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	1636.01 Wattle Check
1630.06 Special Stilling Basin	1636.02 Silt Fence Wattle Break
1631.01 Matting Installation	1640.01 Coir Fiber Baffle
	1645.01 Temporary Stream Crossing

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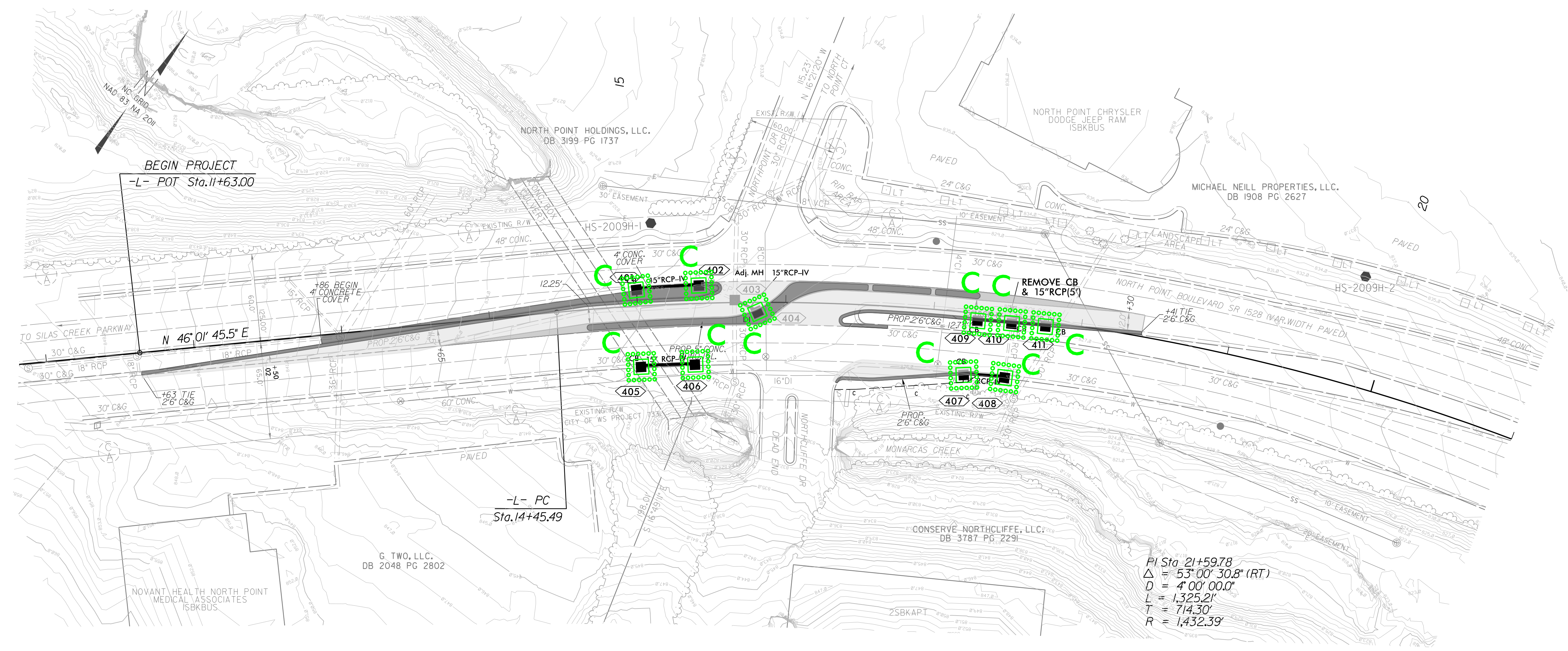
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

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.

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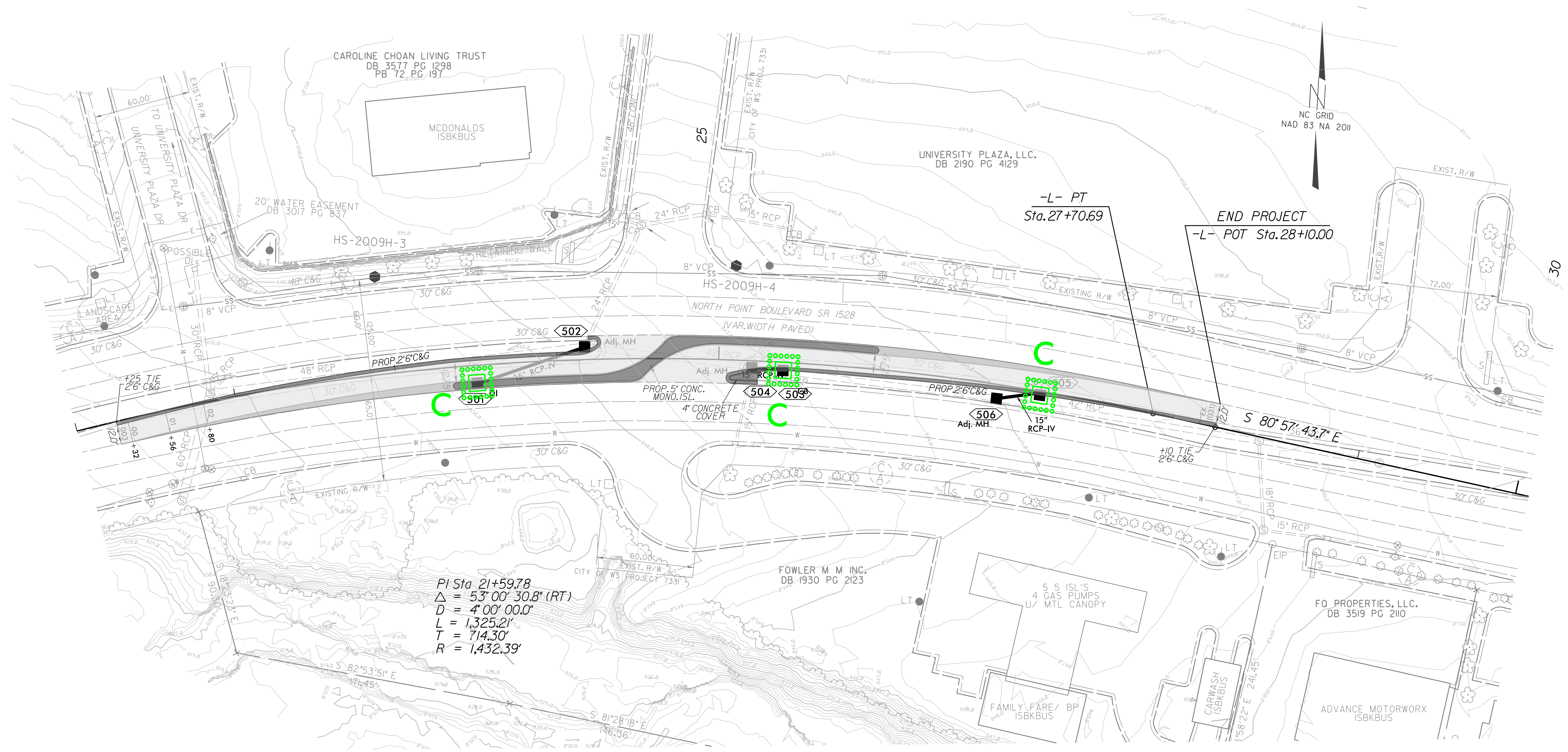
REVISIONS



**FABRIC INSERT INLET PROTECTION
 DEVICES SHALL BE USED AS
 DIRECTED BY THE ENGINEER**

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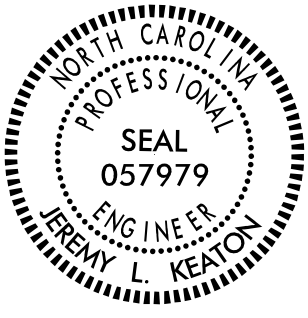


FABRIC INSERT INLET PROTECTION
 DEVICES SHALL BE USED AS
 DIRECTED BY THE ENGINEER

**STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION**

**SIGNING PLAN
FORSYTH COUNTY**

**LOCATION: SR 1528 (NORTH POINT BLVD) AT UNIVERSITY
PLAZABP GAS MAIN DRIVEWAY AND SR 1528 AT
NORTHPOINT DRNORTHCLIFFE**

<small>PROJECT REFERENCE NO.</small> HS-2009H	<small>SHEET NO.</small> SIGN-1
<small>Designed by</small> <i>Jeremy Keaton</i>	
<small>APPROVED:</small>	
<small>DATE:</small> 09/10/2024	
<small>SEAL</small>	
	

T.I.P.: HS-2009H

CONTRACT: DI00362

ROADWAY STANDARD DRAWING

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2024 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

<u>STD. NO.</u>	<u>TITLE</u>
904.10	ORIENTATION OF GROUND MOUNTED SIGNS
904.50	MOUNTING OF TYPE 'D', 'E' AND 'F' SIGNS ON 'U' CHANNEL POSTS
910.30	SIGNING UNSIGNALIZED REDUCED CONFLICT INTERSECTION

GENERAL NOTES

- . ALL TYPE 'D' SIGNS SHALL BE MOUNTED ON TWO U-CHANNEL POSTS UNLESS OTHERWISE INDICATED ON THE PLANS.
- . IF REMOVAL OR RELOCATION OF SIGNS ON PRIVATE STREET (NON-STATE MAINTAINED) IS REQUIRED DUE TO CONSTRUCTION, THE CONTRACTOR SHALL INFORM THE ENGINEER. THE WORK WILL BE COMPLETED BY OTHERS.
- . 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.
- . THE BACKGROUND FOR TYPE E & F SIGNS SHALL BE TYPE C REFLECTIVE SHEETING.
- . ERECT ALL 'D' & 'E' SIGNS ON "U" CHANNEL POSTS.
- . WHEN EXISTING SIGNS ARE REMOVED AND INSTALLED ON NEW SUPPORTS, THE RE-ERECTION SHALL IMMEDIATELY FOLLOW THE REMOVAL.

SUMMARY OF QUANTITIES

ITEM NO.		ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NO.	SECT. NO.			
4072000000	903	SUPPORTS, 3 LB STEEL U-CHANNEL	120	L.F.
4102000000	904	SIGN ERECTION, TYPE E	8	EA.
4155000000	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	4	EA.

INDEX

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
SIGN-1	TITLE SHEET
SIGN-2	'E' SIGN SCHEDULE
SIGN-3	PROPOSED AND EXISTING SIGNS



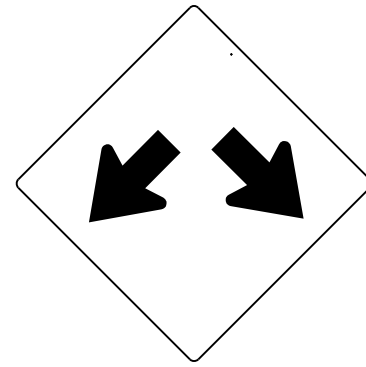
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48" x 18"
R6-1 (R)

TWO "U" POSTS PER SIGN

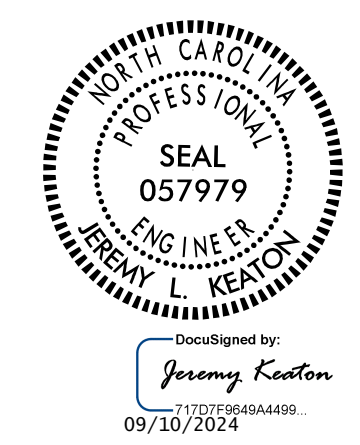
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30" X 30"
W12-1

ONE "U" POST PER SIGN

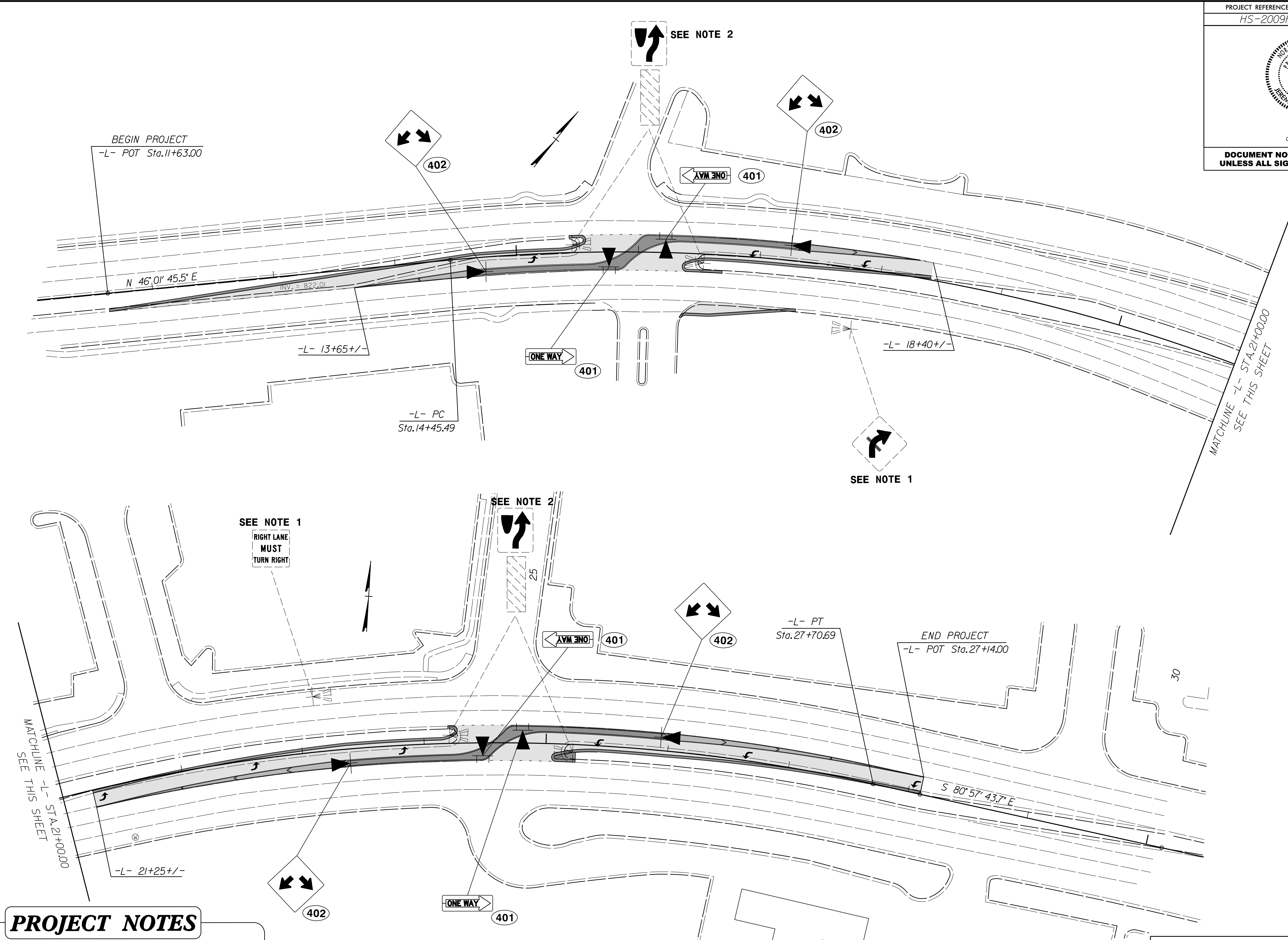
TYPE "E" SIGNS



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

REVISIONS

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PROJECT NOTES

- NOTES:
1 EXISTING SIGN TO REMAIN
2 DISPOSE OF SIGN SYSTEM, U-CHANNEL

PROPOSED AND EXISTING SIGNS

