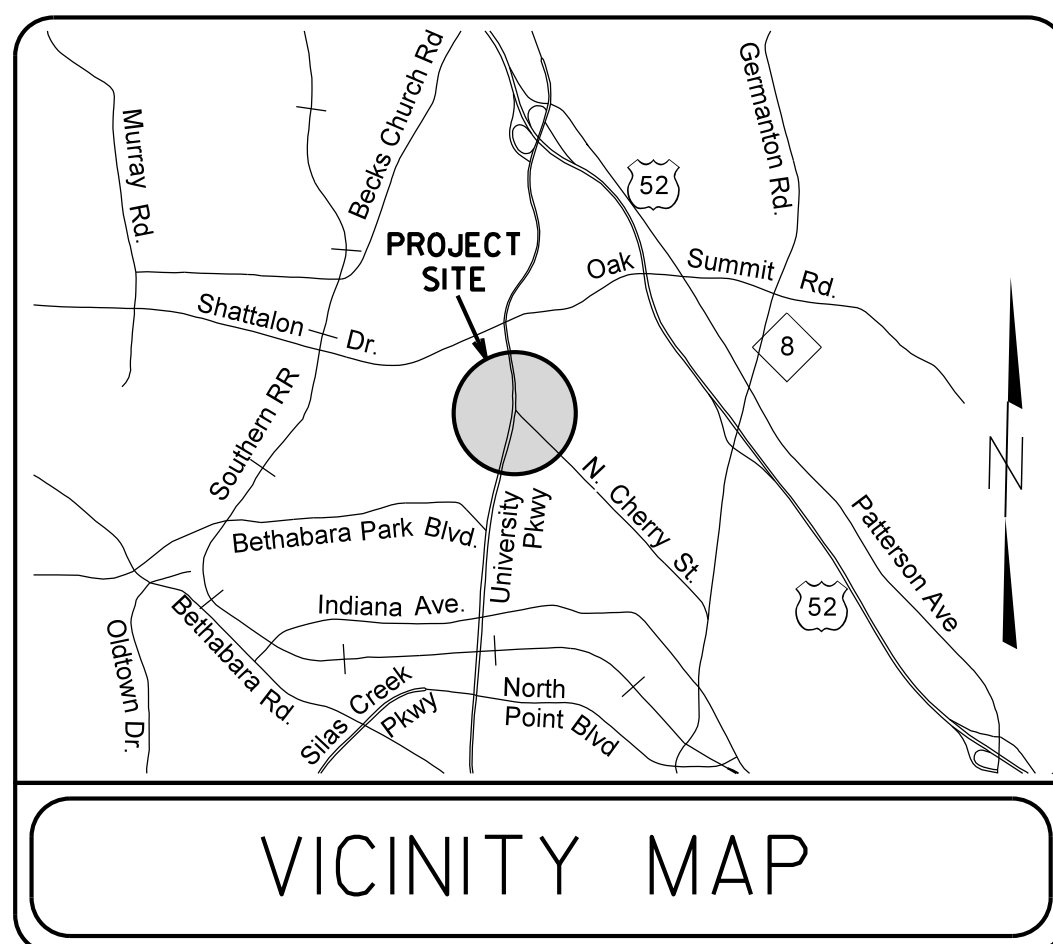


09_08/19

See Sheet 1A For Index of Sheets

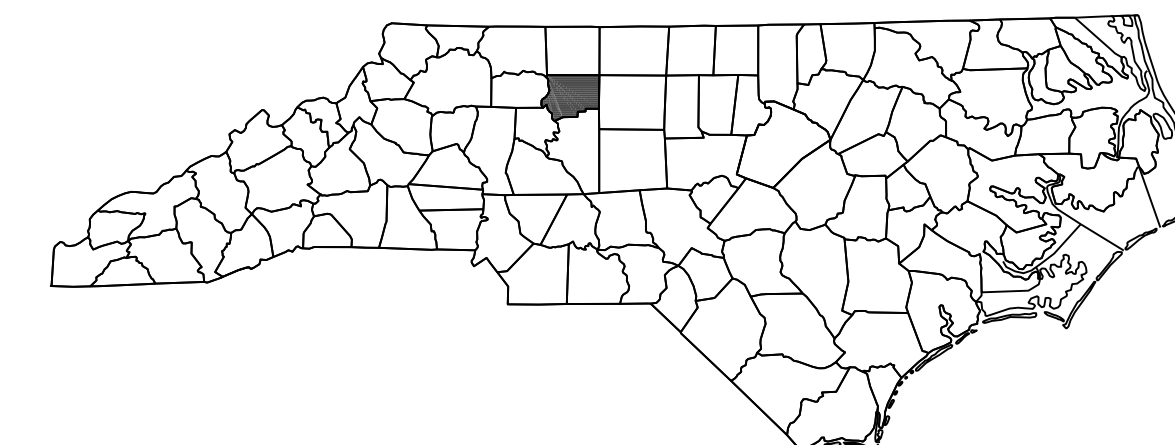


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

FORSYTH COUNTY

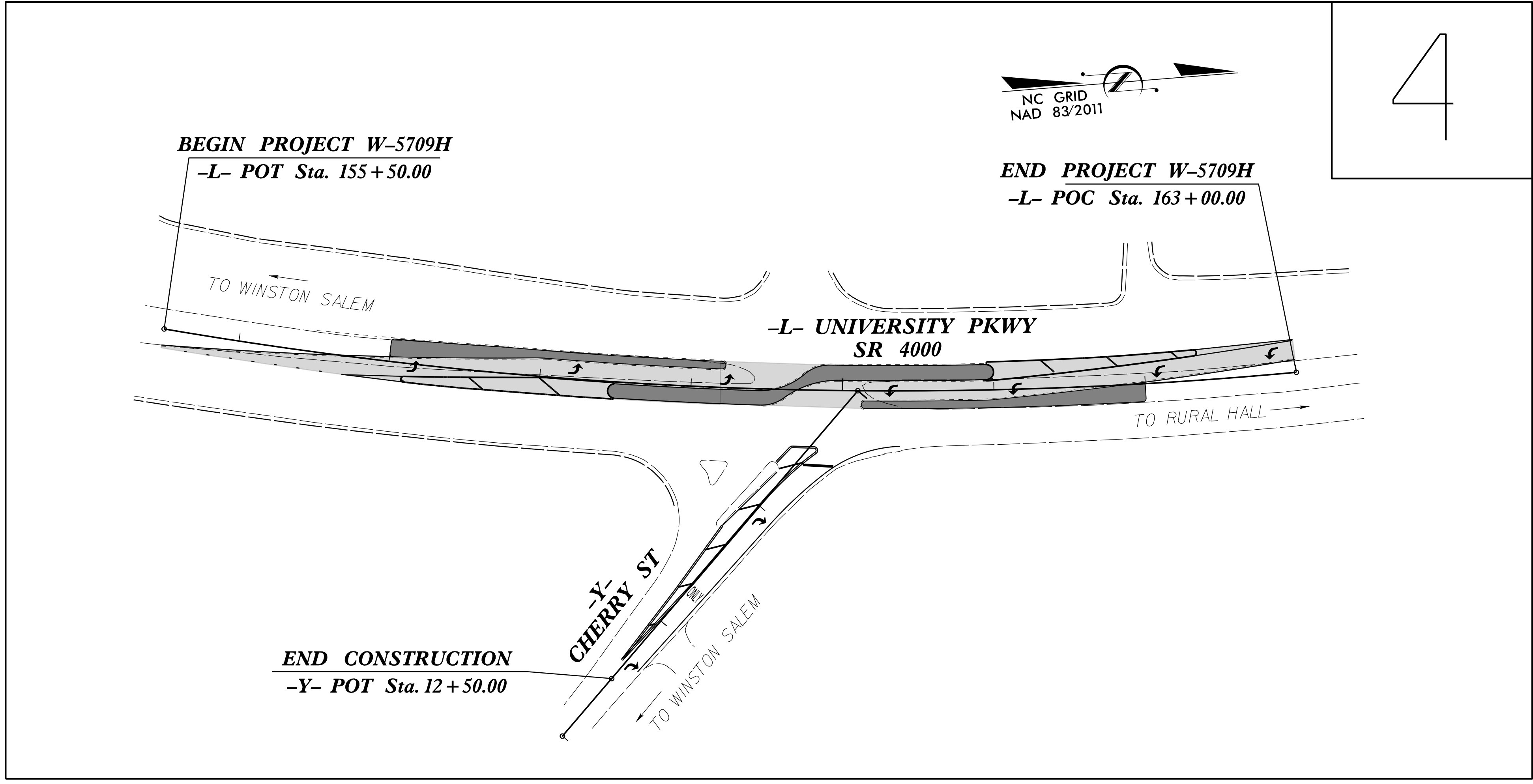
**LOCATION: SR 400 (UNIVERSITY PARKWAY) AT CHERRY STREET
IN WINSTON-SALEM. CONSTRUCT DIRECTIONAL
LEFT-OVERS AND IMPROVE LEFT TURN
TYPE OF WORK: GRADING, DRAINAGE, AND PAVING**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-5709H	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
44855.1.8	HSIP-4000(001)	PE	

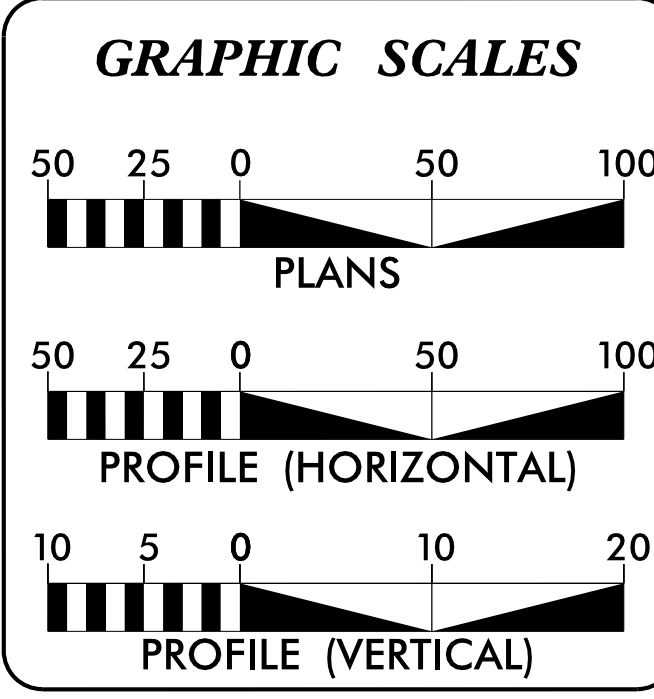


TIP PROJECT: W-5709H

CONTRACT:



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



DESIGN DATA

-L-

ADT 2017 = 41,000 VPD

ADT 2029 = 45,300 VPD

DESIGN SPEED = 40 MPH

POSTED SPEED = 35 MPH

FUNC CLASS = PRINCIPAL ARTERIAL

PROJECT LENGTH

TOTAL LENGTH ROADWAY TIP PROJECT 0.142 MILES

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

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
N/A

LETTING DATE:
NOV. 2019

SCOTT A. JONES, PE
PROJECT ENGINEER

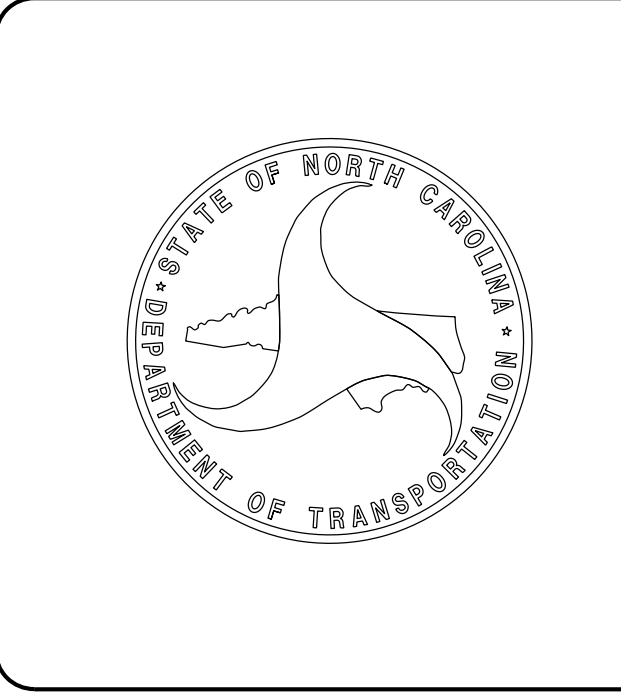
JEREMY L. KEATON
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

DocuSigned by:
Scott Jones
7/6/2021 P.E.

ROADWAY DESIGN ENGINEER

DocuSigned by:
Scott Jones
7/6/2021 P.E.



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

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REVISIONS

SHEET NUMBER	INDEX OF SHEETS SHEET
1	TITLE SHEET
1-A	INDEX OF SHEETS, GENERAL NOTES, AND STANDARD DRAWINGS
1-B	CONVENTIONAL SYMBOLS
2A-1	PAVEMENT SCHEDULE, TYPICAL SECTIONS
3D-1	ROADWAY SUMMARIES, DRAINAGE SUMMARIES
4	PLAN SHEET
TMP-1 THRU TMP-	TRAFFIC MANAGEMENT PLANS
PMP-1 THRU PMP-2	PAVEMENT MARKING PLANS
EC-1 THRU EC-3	EROSION CONTROL PLANS
SIGN-1 THRU SIGN-3	SIGNING PLANS
RW-1	CONTROL SHEET
X-1 THRU X-4	CROSS-SECTIONS

GENERAL NOTES: 2018 SPECIFICATIONS

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.

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.

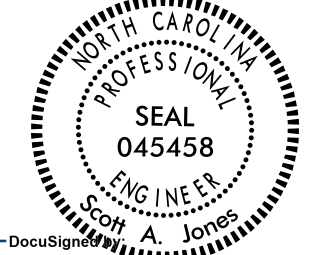

SUBSURFACE PLANS:
 NO SUBSURFACE PLANS ARE AVAILABLE ON THIS PROJECT. THE CONTRACTOR SHOULD MAKE HIS OWN INVESTIGATION AS TO THE SUBSURFACE CONDITIONS.

UTILITIES:
 UTILITY OWNERS ON THIS PROJECT ARE AT&T, City of Winston Salem, Time Warner Cable (Charter), Duke Energy, Heath Consultants, Verizon (MCI), Sagra (Spirit), Piedmont Natural Gas, Scout Communications
 ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS.

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	
225.02	Guide for Grading Subgrade - Secondary and Local
225.04	Method of Obtaining Superelevation - Two Lane Pavement
DIVISION 3 - PIPE CULVERTS	
300.01	Method of Pipe Installation
310.02	Parallel Pipe End Section - Precast Concrete Section for 15" to 24" Pipe
310.03	Cross Pipe End Section - Precast Concrete Section for 18" to 30" Pipe
DIVISION 5 - SUBGRADE, BASES AND SHOULDERS	
560.01	Method of Shoulder Construction - High Side of Superelevated Curve - Method I
DIVISION 8 - INCIDENTALS	
840.01	Brick Catch Basin - 12" thru 54" Pipe
840.02	Concrete Catch Basin - 12" thru 54" Pipe
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
840.18	Concrete Grated Drop Inlet Type 'B' - 12" thru 36" Pipe
840.22	Frames and Wide Slot Sag Grates
840.27	Brick Grated Drop Inlet Type 'B' - 12" thru 36" Pipe
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
840.37	Steel Grate and Frame
852.01	Concrete Islands
852.06	Method for Placement of Drop Inlets in Concrete Islands

PROJECT REFERENCE NO. W-5709H	SHEET NO. 1-A
ROADWAY DESIGN ENGINEER  Scott Jones 7/6/2021	HYDRAULICS ENGINEER  Scott Jones 7/6/2021
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

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

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

BOUNDARIES AND PROPERTY:

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin	○ EP
Computed Property Corner	-----
Property Monument	□ ECM
Parcel/Sequence Number	Ⓜ 23
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 Easment Pin and Cap	⬠
New Permanent Easment Pin and Cap	⬠
Vertical Benchmark	⊗
Existing Right of Way Marker	△
Existing Right of Way Line	-----
New Right of Way Line	-----
New Right of Way Line with Pin and Cap	-----
New Right of Way Line with Concrete or Granite RW Marker	-----
New Control of Access Line with Concrete C/A Marker	-----
Existing Control of Access	-----
New Control of Access	-----
Existing Easement Line	-----
New Temporary Construction Easement	-----
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	-----
Proposed Guardrail	-----
Existing Cable Guiderail	-----
Proposed Cable Guiderail	-----
Equality Symbol	⊕
Pavement Removal	▨

VEGETATION:

Single Tree	☼
Single Shrub	☼

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	⊙
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:

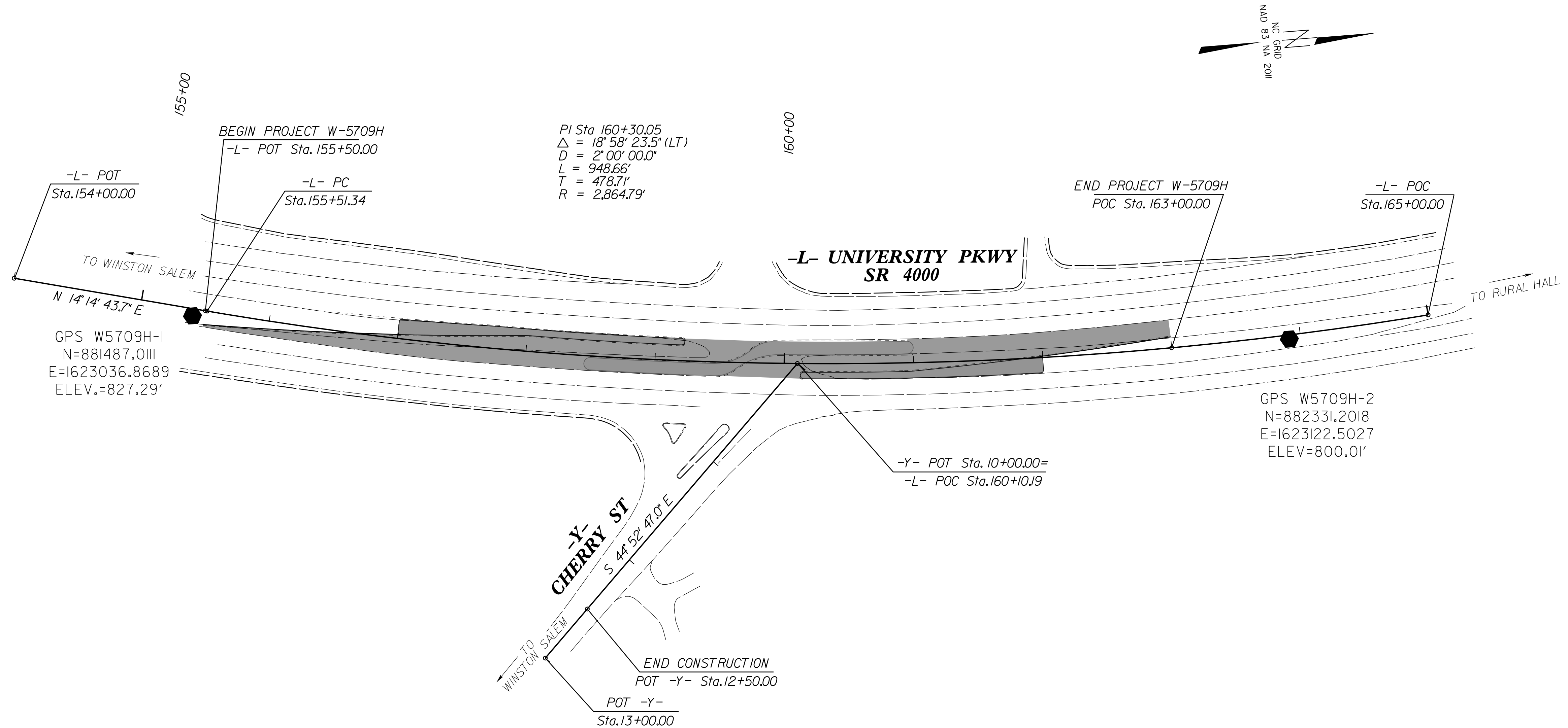
Sanitary Sewer Manhole	⊙
Sanitary Sewer Cleanout	⊕
U/G Sanitary Sewer Line	----- SS
Above Ground Sanitary Sewer	----- A/G Sanitary Sewer
SS Forced Main Line LOS B (S.U.E.*)	----- FSS
SS Forced Main Line LOS C (S.U.E.*)	----- FSS
SS Forced Main Line LOS D (S.U.E.*)	----- FSS

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.	⊕ (UST)
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

PROJECT REFERENCE NO.	SHEET NO.
W-5709H	RW-1
Division 9 DDC	



REVISIONS

6/2/09

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 At Div-31214

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "W-5709H-1" WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF NORTHING: 881487.011(±) EASTING: 1623036.869(±) ELEVATION: 827.293(±)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99996522

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "W-5709H-1" TO -L- STATION 154+00.00 IS S16°29'29.4"W 140.96'

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

DESIGN ALIGNMENTS (EXISTING ALIGNMENTS RETAINED)

L				
TYPE	STATION	NORTH	EAST	
POT	154+00.00	881351.8509	1622996.8544	
PC	155+51.34	881498.5372	1623034.0956	
PT	165+00.00	882439.6133	1623112.4396	

Y				
TYPE	STATION	NORTH	EAST	
POT	10+00.00	881950.3997	1623110.9848	
POT	13+00.00	881737.8228	1623322.6710	

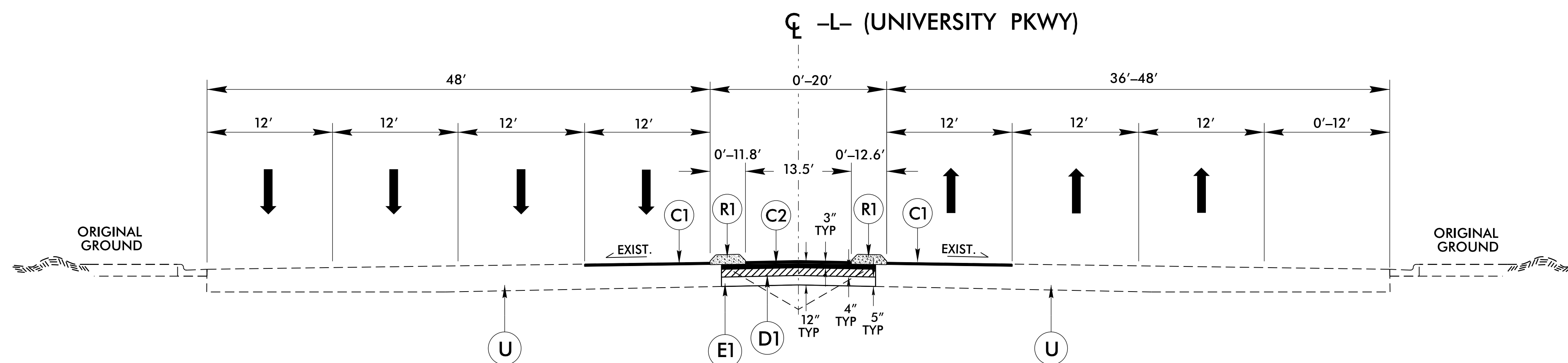
BL	POINT	DESC.	NORTH	EAST	ELEVATION
1		W-5709H-1	881487.0111	1623036.8689	827.29
2		W-5709H-2	882331.2018	1623122.5027	800.01

NOTES:

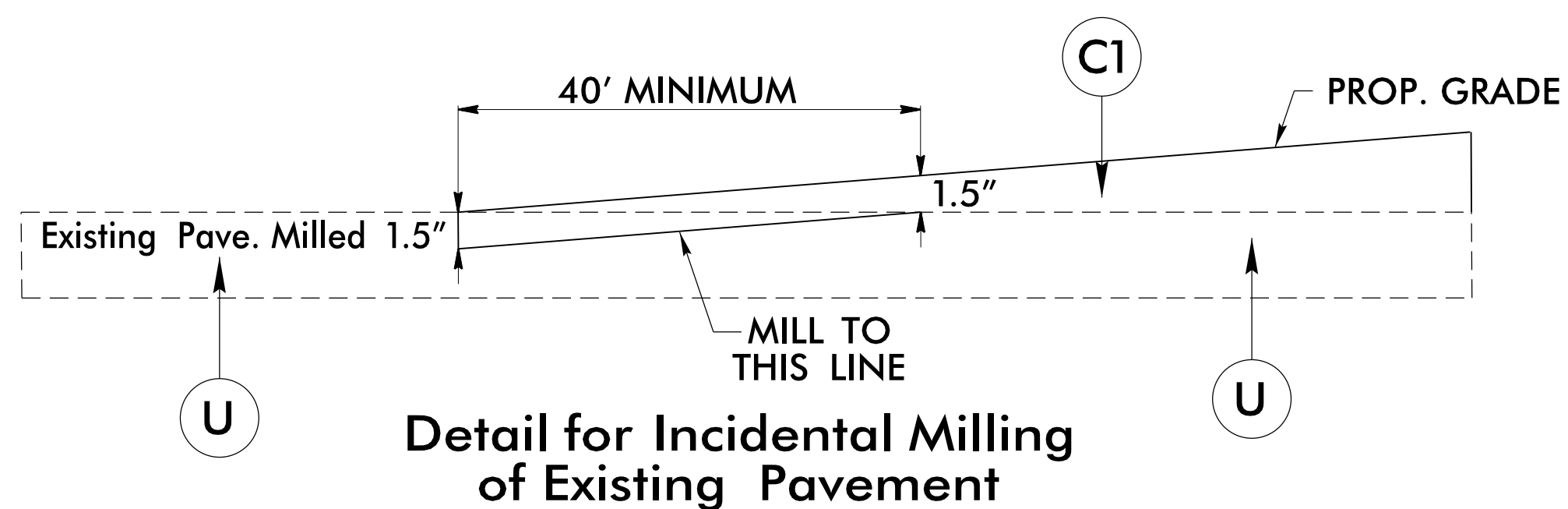
1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

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PROJECT REFERENCE NO. W-5709H	SHEET NO. 2A-1
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DocuSign Scott Jones 7/6/2021	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



TYPICAL SECTION NO. 1
 -L- STA. 155+50 TO STA. 163+00
 NOTE: MILL 1.5" PRIOR TO APPLYING C1 LAYER
 AND PRIOR TO INSTALLATION OF 5" ISLAND



PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1½" 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.
D1	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E1	PROP. APPROX. 5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
R1	5" MONOLITHIC CONCRETE ISLAND (KEYED-IN).
U	EXISTING PAVEMENT.

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

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

NOTE: Invert Elevations 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" & UNDER)

Table with columns for Station, Location, Structure No., Top Invert Elevation, Invert Elevation, Slope, Class IV R.C. Pipe, C.S. Pipe, Drainage Pipe, Endwalls, Quantities for Drainage Structures, Frame, Grates and Hood Standard, and Remarks.

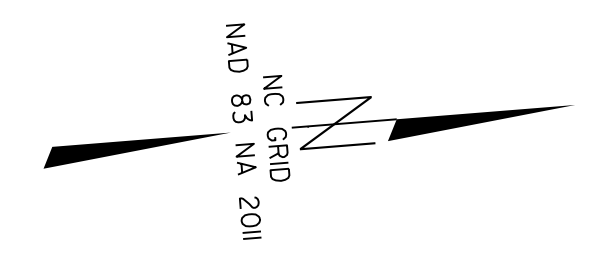
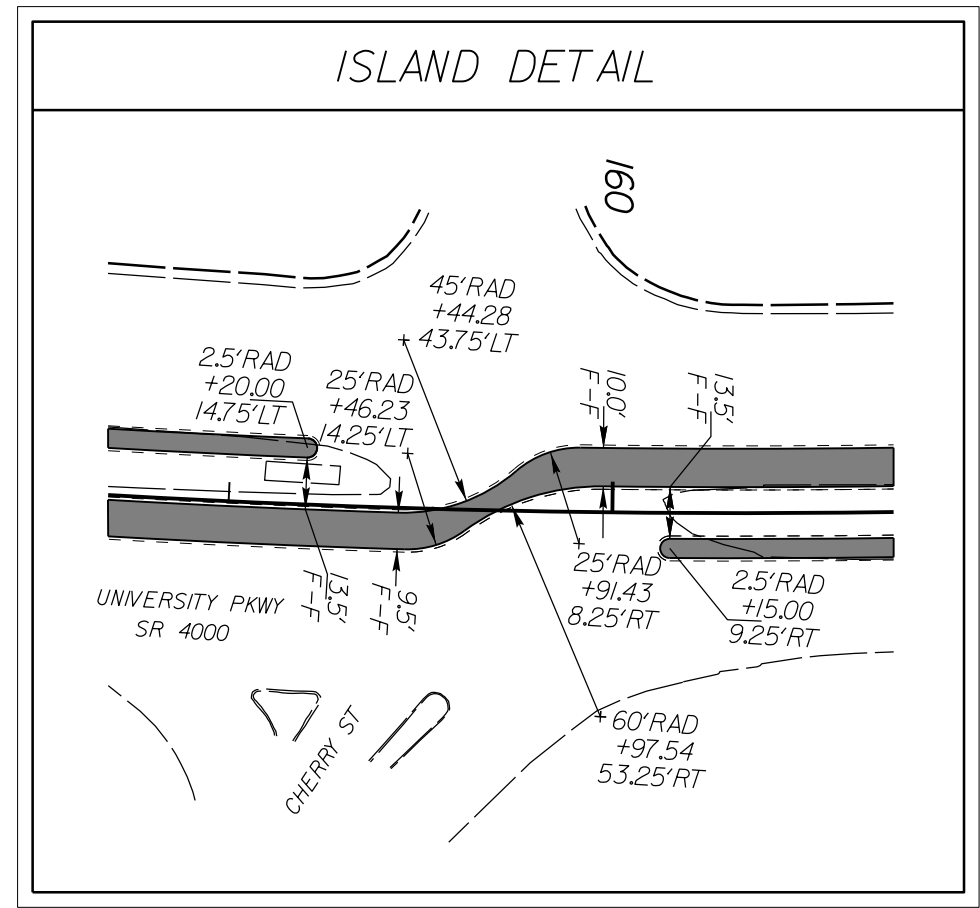
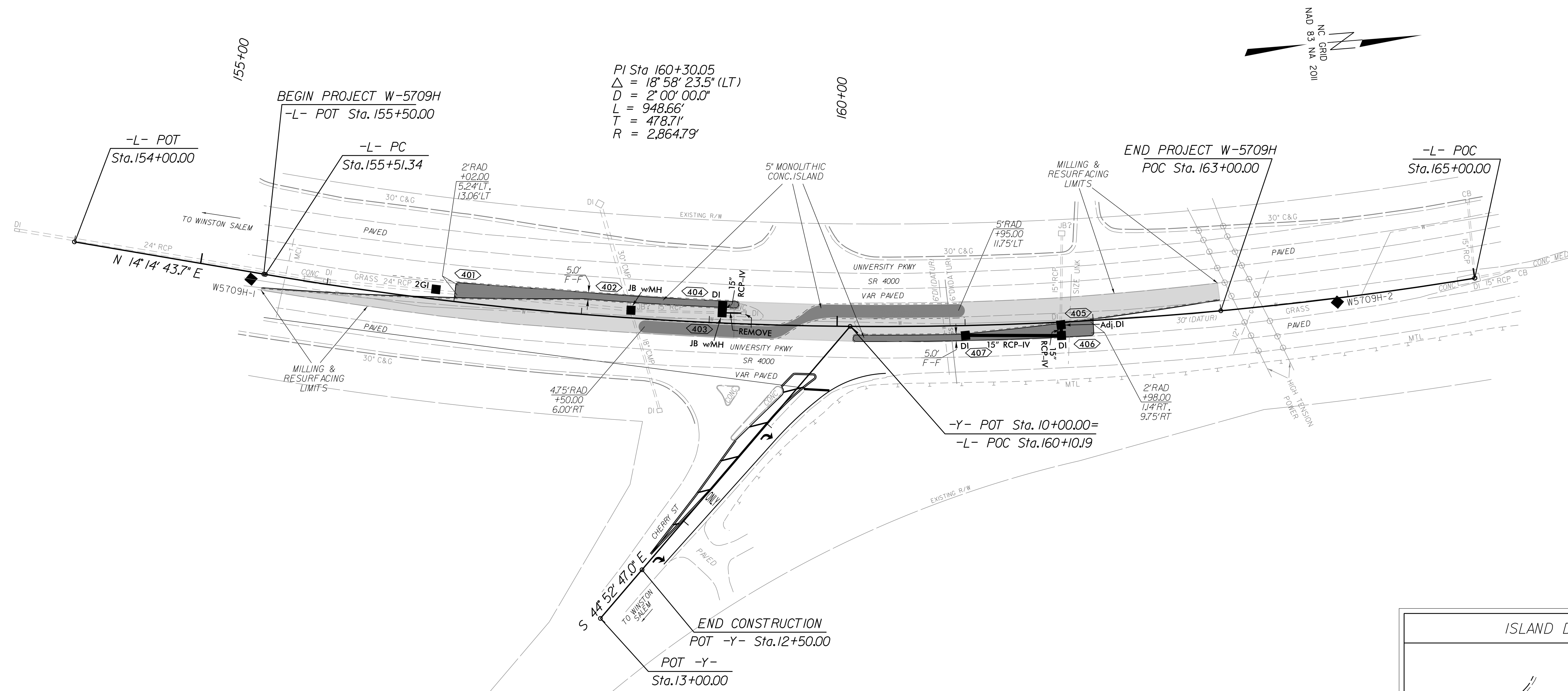
SUMMARY OF EARTHWORK

Table with columns for From Station, To Station, Location (LT or RT), Embank (+20%), Borrow (CY), and Waste.

NOTE:
1) EARTHWORK QUANTITIES ARE CALCULATED BY DDC UNIT.
2) APPROXIMATE QUANTITIES ONLY, UNCLASSIFIED EXCAVATION, SHOULDER BORROW, FINE GRADING, CLEARING AND GRUBBING, BREAKING OF EXISTING ASPHALT, AND REMOVAL OF EXISTING ASPHALT WILL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR "GRADING".

PROJECT REFERENCE NO. W-5709H	SHEET NO. 4
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

PAVEMENT REMOVAL

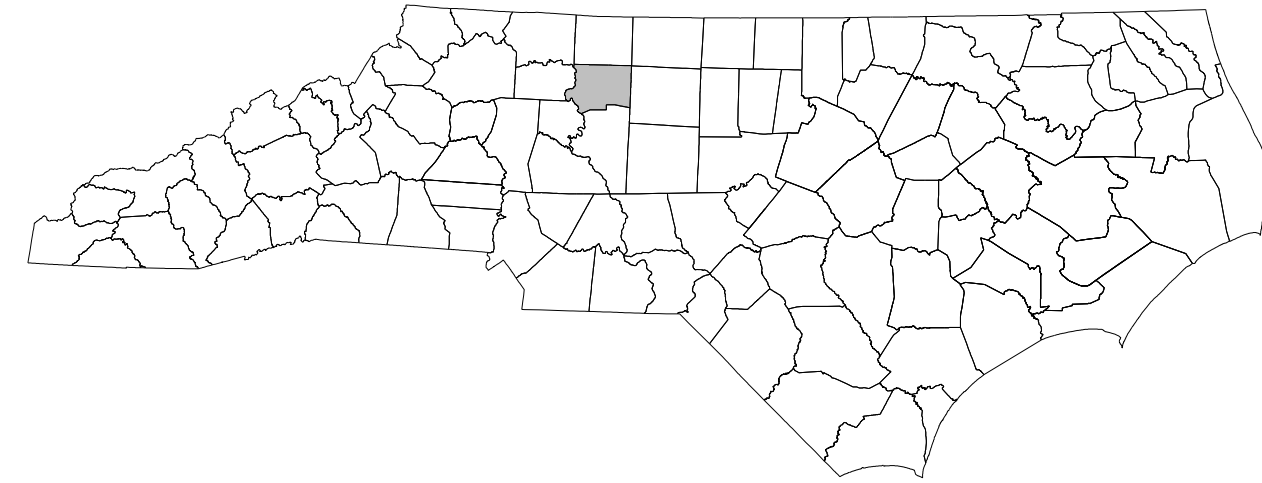


8/17/99
 REVISIONS
 Rev/Issd:
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 C:\Users\james\Documents\Projects\W-5709H\Drawings\W5709H.dwg

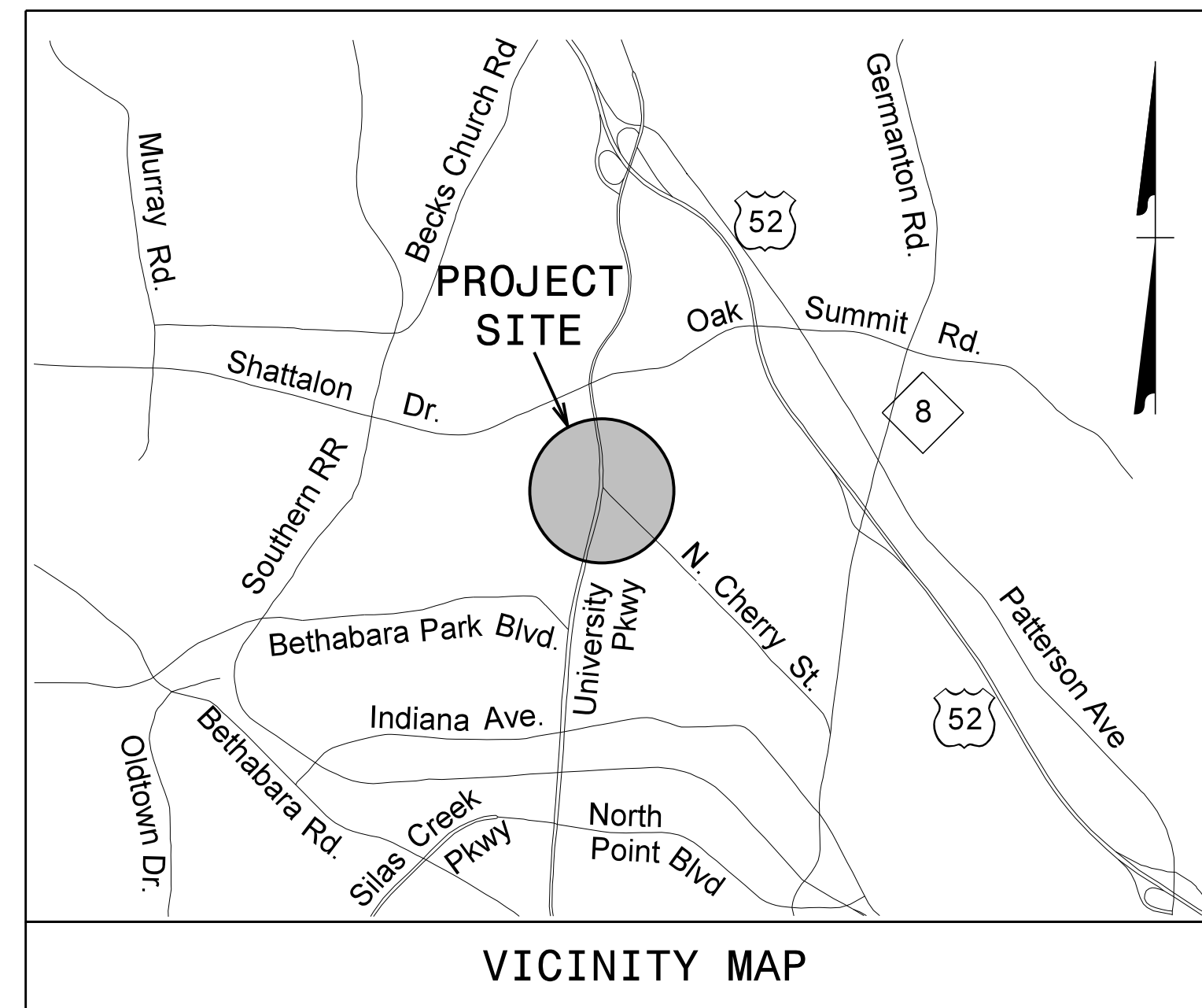
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

FORSYTH COUNTY



**LOCATION: SR 4000 (UNIVERSITY PARKWAY) AT CHERRY STREET
IN WINSTON-SALEM. CONSTRUCT DIRECTIONAL
LEFT-OVERS AND IMPROVE LEFT TURN
TYPE OF WORK: GRADING, DRAINAGE, AND PAVING**



VICINITY MAP

INDEX OF SHEETS

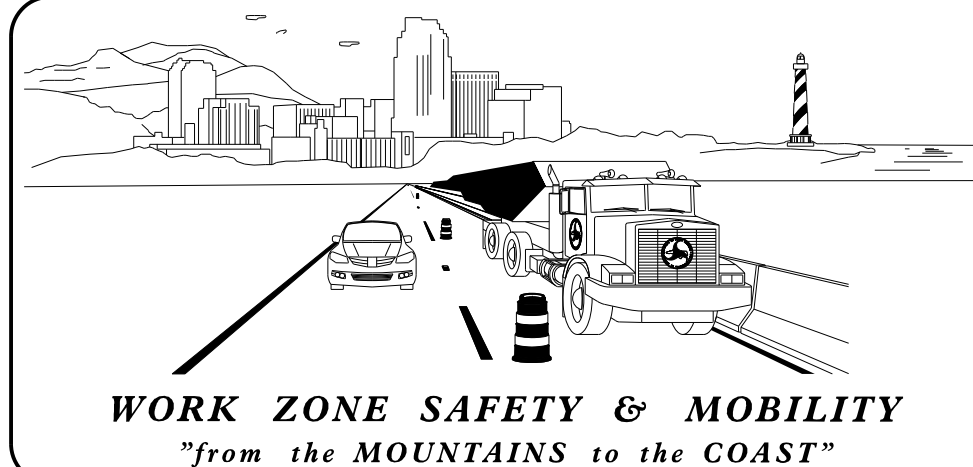
SHEET NO.	TITLE
TMP-1	TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND, AND TEMPORARY PAVEMENT MARKING SCHEDULE
TMP-2	TRANSPORTATION OPERATIONS PLAN: (GENERAL NOTES)
TMP-3	MANAGEMENT STRATEGIES AND TEMPORARY TRAFFIC CONTROL PHASING
TMP-4	MEDIAN CLOSURE DETAIL (STEPS 1 - 3)
TMP-5	MEDIAN CONSTRUCTION DETAIL (STEP 4)
TMP-6	FINAL TRAFFIC PATTERN (STEP 5)

SHEET NO.
TMP-1

W-5709H

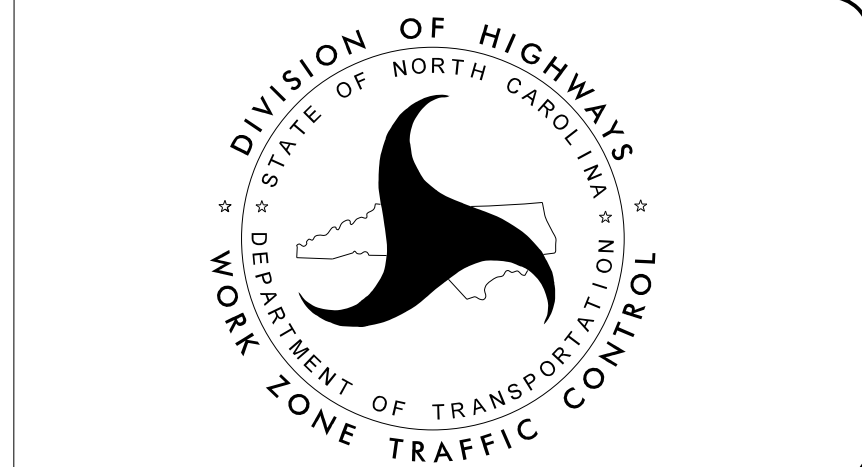
TIP PROJECT:

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



PLANS PREPARED BY:
ALLA LYUDMIRSKAYA
KENNETH THORNEWELL, PE

NCDOT CONTACTS:
KENNETH THORNEWELL, PE
PROJECT ENGINEER
ALLA LYUDMIRSKAYA
PROJECT DESIGN ENGINEER



APPROVED: _____
DATE: _____

SEAL
K. THORNEWELL
PROFESSIONAL ENGINEER
044089
STATE OF NORTH CAROLINA

4/20/2021 8:21:11 AM S:\TMU\WZTC\DesignGroup2\062508\Lyudmir-skaya\W-5709H (Div 9 project)\2021-03-29\W-5709H.TMP_2021-04-01\W-5709H_TC_TMP_TMP-1 Title.dgn User:alyudmi

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:

<u>STD. NO.</u>	<u>TITLE</u>
1101.01	WORK ZONE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW BOARD
1130.01	DRUMS
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1165.01	TRUCK MOUNTED ATTENUATOR
1180.01	SKINNY - DRUMS
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO LANE AND MULTILANE ROADWAYS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.06	PAVEMENT MARKINGS - LANE DROPS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.15	PAVEMENT MARKINGS - SUPERSTREETS
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.
- TEMP. SHORING (LOCATION PURPOSES ONLY)
- WORK AREA

SIGNALS

- EXISTING
- PROPOSED
- TEMPORARY

PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

TEMPORARY PAVEMENT MARKING SCHEDULE

PAVEMENT MARKING LINES:

P1	WHITE EDGELINE	PAINT (4")
P10	YELLOW EDGELINE	PAINT (4")
P14	YELLOW MINI-SKIP	PAINT (4")
P13	YELLOW DOUBLE CENTER	PAINT (4")
P40	WHITE GORE LINE	PAINT (8")
P41	WHITE DIAGINAL	PAINT (8")
P42	YELLOW DIAGONAL	PAINT (8")
P61	WHITE STOPBAR	PAINT (24")

PAVEMENT MARKING SYMBOLS AND CHARACTERS:

P70	LEFT TURN ARROW	PAINT
P71	RIGHT TURN ARROW	PAINT
P100	ALPHANUMERIC CHAR.	PAINT

TRAFFIC CONTROL DEVICES

- BARRICADE (TYPE III)
- 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 MARKERS

- CRYSTAL/CRYSTAL
- CRYSTAL/RED
- YELLOW/YELLOW

PAVEMENT MARKING SYMBOLS

- PAVEMENT MARKING SYMBOLS

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APPROVED: _____			<h2>ROADWAY STANDARD DRAWINGS & LEGEND</h2>
DATE: _____			
<p>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p>			

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 UNDESIRED 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 OR NARROW TRAVEL LANES AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
UNIVERSITY PKWY (-L-)	MONDAY THRU FIDAY FROM 6:00 AM TO 9:00 AM AND FROM 4:00 PM TO 7:00 PM

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

ROAD NAME
UNIVERSITY PKWY (-L-)

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. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 7:00 P.M. THE FOLLOWING TUESDAY.
- 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.

IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 6:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 7:00 P.M. THE TUESDAY 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.

9. FOR WAKE FOREST UNIVERSITY FOOTBALL GAMES, OCCURRING AT BB&T FIELD (FORMERLY GROVES STADIUM), BETWEEN 4 (FOUR) HOURS BEFORE THE START AND 4 (FOUR) HOURS AFTER THE END OF WAKE FOREST UNIVERSITY FOOTBALL GAMES.

10. FOR THE DIXIE CLASSIC FAIR IN WINSTON-SALEM BETWEEN THE HOURS OF 6:00 AM THE DAY BEFORE THE START OF THE DIXIE CLASSIC FAIR IN WINSTON-SALEM AND 7:00 PM THE FOLLOWING DAY AFTER THE END OF THE DIXIE CLASSIC FAIR IN WINSTON-SALEM.

LANE AND SHOULDER CLOSURE REQUIREMENTS

- C) 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.
- D) 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.
- E) 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.
- F) 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.
- G) 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.
- H) DO NOT INSTALL MORE THAN ONE LANE CLOSURE IN ANY ONE DIRECTION ON UNIVERSITY PKWY..
- I) PROVIDE TRAFFIC CONTROL FOR APPROPRIATE LANE CLOSURES FOR SURVEYING DONE BY THE DEPARTMENT.
- ### PAVEMENT EDGE DROP OFF REQUIREMENTS
- J) 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.
- K) 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) 500 FT. IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

L) NOTIFY THE ENGINEER THIRTY (30) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

SIGNING

- M) 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.
- N) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

TRAFFIC CONTROL DEVICES

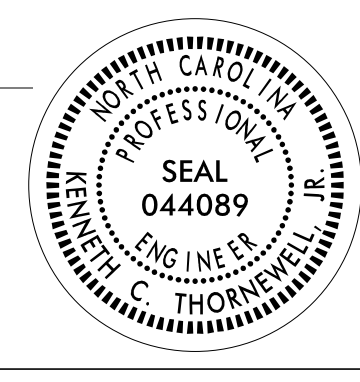

- O) WHEN LANE CLOSURES ARE NOT IN EFFECT SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER IN FEET THAN TWICE THE POSTED SPEED LIMIT (MPH) EXCEPT, 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY. REFER TO STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES SECTIONS 1130 (DRUMS), 1135 (CONES) AND 1180 (SKINNY DRUMS) FOR ADDITIONAL REQUIREMENTS.
- P) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.
- Q) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 500 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.

PAVEMENT MARKINGS AND MARKERS

R) INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:

ROAD NAME	MARKING	MARKER
UNIVERSITY PKWY (-L-)	PAINT	N/A
CHERRY ST (-Y-)	PAINT	N/A

- S) 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.
- T) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- U) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.
- V) TRACE THE PROPOSED MONOLITHIC ISLAND LOCATIONS WITH PROPER COLOR PAVEMENT MARKINGS PRIOR TO INSTALLATION. PLACE CONES TO DELINEATE ANY PROPOSED MONOLITHIC ISLANDS BEFORE INSTALLATION.

APPROVED: _____ DATE: _____			<h2 style="margin: 0;">TRANSPORTATION OPERATIONS PLAN</h2>
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

MANAGEMENT STRATEGIES

THE FOLLOWING MANAGEMENT STRATEGIES ARE RECOMMENDED FOR WORK ZONES OF THIS PROJECT:

- FLAGGER OPERATIONS TO COMPLETE RESURFACING AND REVISE PAVEMENT MARKINGS ON CHERRY ST (-Y-).
- AWAY FROM TRAFFIC AND USING LANE AND SHOULDER CLOSURES, AS NEEDED, TO CONSTRUCT THE PROPOSED DRAINAGE AND INTERSECTION IMPROVEMENTS ON UNIVERSITY PKWY (-L-).

PPHASING

STEP 1:
 USING RSD 1101.02, SHEETS 1 AND 3 OF 14, INSTALL WORK ZONE ADVANCE WARNING SIGNS ON UNIVERSITY PKWY (-L-) AND CHERRY ST (-Y-).

NOTE: COMPLETE STEP 2 PRIOR TO CLOSE THE MEDIAN ACCESS ON UNIVERSITY PKWY IN STEP 3.

STEP 2 (REFER TO SHEET TMP-4):
 USING RSD 1101.02, SHEET 1 OF 14, PERFORM RESURFACING AND REVISE PAVEMENT MARKINGS ON CHERRY ST (PROPOSED PAINT MIDDLE ISLAND, RIGHT TURN ONLY LANE TO UNIVERSITY PKWY, RELOCATE STOP BAR). PLACE THE CHERRY ST TRAFFIC IN THE NEW PATTERN.

STEP 3 (REFER TO SHEET TMP-4):

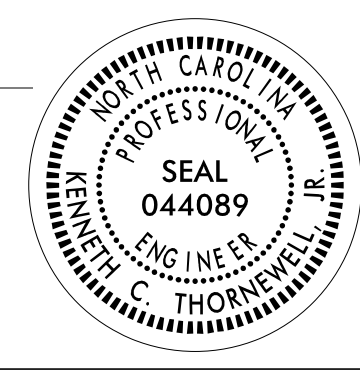

- CLOSE THE MEDIAN ACCESS ON UNIVERSITY PKWY ACROSS CHERRY ST (-L- STA. 159+40+/- TO -L- STA.160 20+/-), AND DIRECT TRAFFIC FROM UNIVERSITY PKWY TO CHERRY ST AND TO BILL'S AUTO PLAZA VIA THE NEAREST SIGNALIZED INTERSECTIONS AT 'TARGET' (ON NORTH) AND AT HOME RD NW (ON SOUTH).
- AWAY FROM TRAFFIC AND USING LANE AND SHOULDER CLOSURES, AS NEEDED, BEGIN CONSTRUCTION OF PROPOSED DRAINAGE WORK.

STEP 4 (REFER TO SHEET TMP-5):
 AWAY FROM TRAFFIC AND USING LANE CLOSURES, AS NEEDED, PERFORM THE FOLLOWINGS ON UNIVERSITY PKWY (-L-):

- COMPLETE PROPOSED DRAINAGE WORK ALONG MEDIAN
- CONSTRUCT PROPOSED INTERSECTION IMPROVEMENTS (DIRECTIONAL LEFTOVERS, AND CONCRETE ISLANDS)
- RESURFACING LIMITS ON UNIVERSITY PKWY (SEE ROADWAY PLANS)
- PLACE FINAL SURFACE COURSE AND FINAL PAVEMENT MARKINGS.

STEP 5 (REFER TO SHEET TMP-6):
 REMOVE TEMPORARY TRAFFIC CONTROL DEVICES, AND PLACE THE UNIVERSITY PKWY TRAFFIC INTO PROPOSED PATTERN.

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APPROVED: _____ DATE: _____			MANAGEMENT STRATEGIES AND PHASING
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

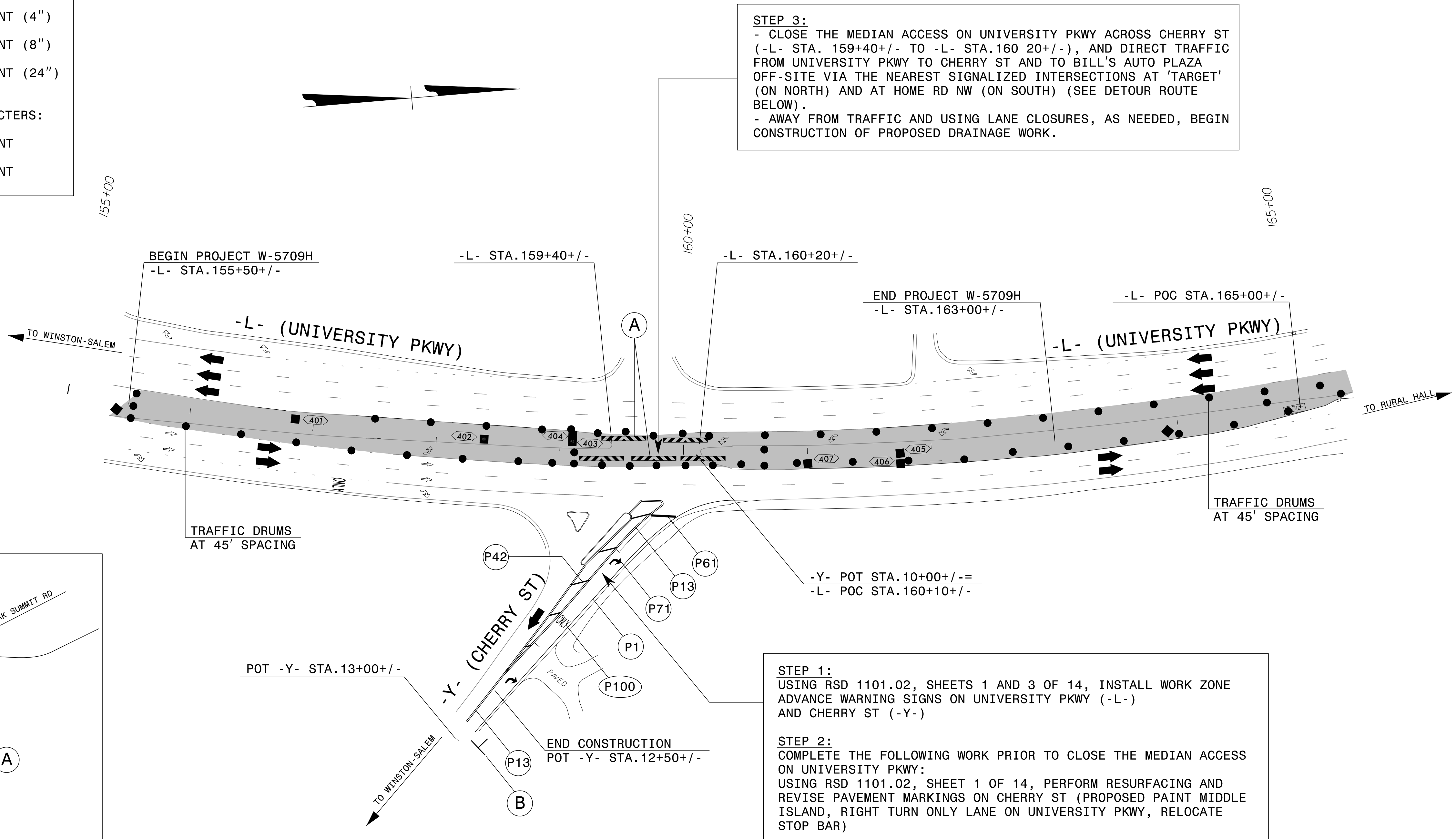
TEMPORARY PAVEMENT MARKING

PAVEMENT MARKING LINES:

- (P1) WHITE EDGELINE PAINT (4")
- (P13) YELLOW DOUBLE CENTER PAINT (4")
- (P42) YELLOW DIAGONAL PAINT (8")
- (P61) WHITE STOPBAR PAINT (24")

PAVEMENT MARKING SYMBOLS AND CHARACTERS:

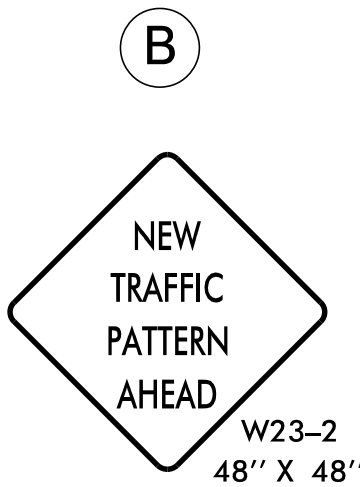
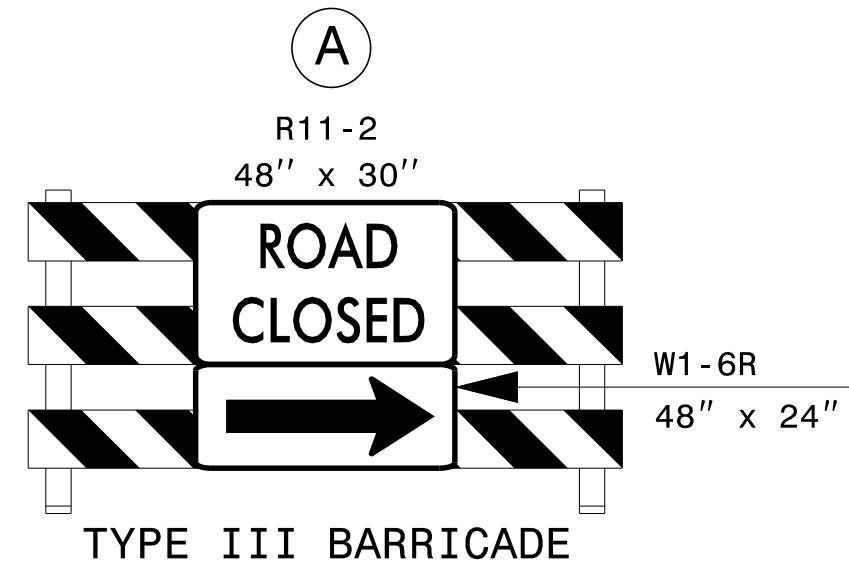
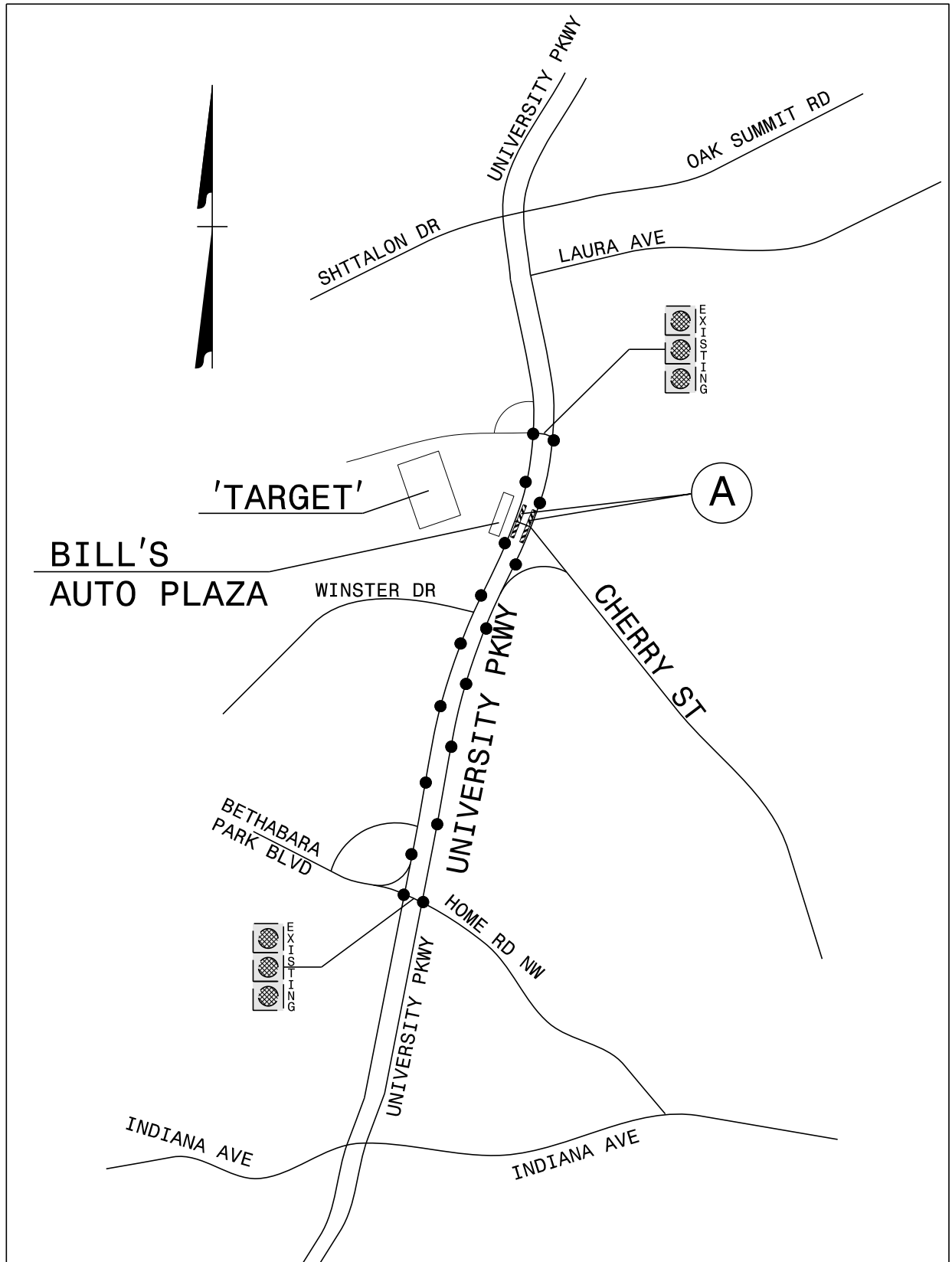
- (P71) RIGHT TURN ARROW PAINT
- (P100) ALPHANUMERIC CHAR. PAINT



STEP 3:
 - CLOSE THE MEDIAN ACCESS ON UNIVERSITY PKWY ACROSS CHERRY ST (-L- STA. 159+40+/- TO -L- STA. 160+20+/-), AND DIRECT TRAFFIC FROM UNIVERSITY PKWY TO CHERRY ST AND TO BILL'S AUTO PLAZA OFF-SITE VIA THE NEAREST SIGNALIZED INTERSECTIONS AT 'TARGET' (ON NORTH) AND AT HOME RD NW (ON SOUTH) (SEE DETOUR ROUTE BELOW).
 - AWAY FROM TRAFFIC AND USING LANE CLOSURES, AS NEEDED, BEGIN CONSTRUCTION OF PROPOSED DRAINAGE WORK.

STEP 1:
 USING RSD 1101.02, SHEETS 1 AND 3 OF 14, INSTALL WORK ZONE ADVANCE WARNING SIGNS ON UNIVERSITY PKWY (-L-) AND CHERRY ST (-Y-)

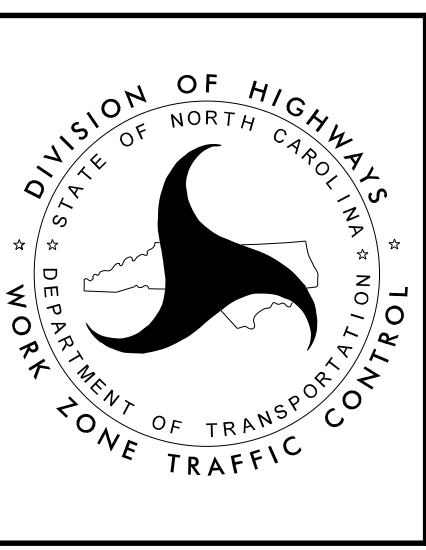
STEP 2:
 COMPLETE THE FOLLOWING WORK PRIOR TO CLOSE THE MEDIAN ACCESS ON UNIVERSITY PKWY:
 USING RSD 1101.02, SHEET 1 OF 14, PERFORM RESURFACING AND REVISE PAVEMENT MARKINGS ON CHERRY ST (PROPOSED PAINT MIDDLE ISLAND, RIGHT TURN ONLY LANE ON UNIVERSITY PKWY, RELOCATE STOP BAR)



ONCE PAVEMENT MARKINGS ON CHERRY ST IS REVISED, INSTALL SIGN W23-1 1000 FT. IN ADVANCE OF INTERSECTION WITH UNIVERSITY PKWY

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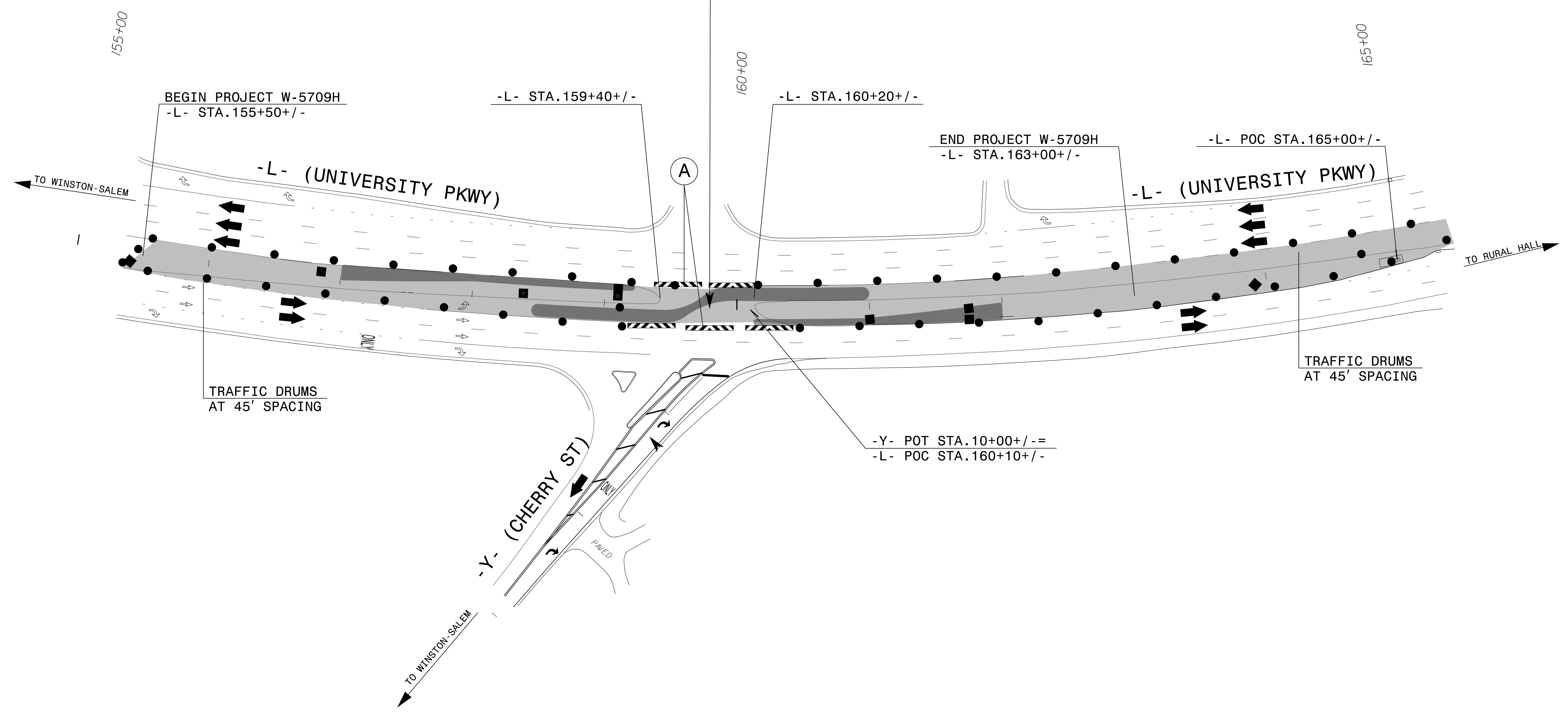
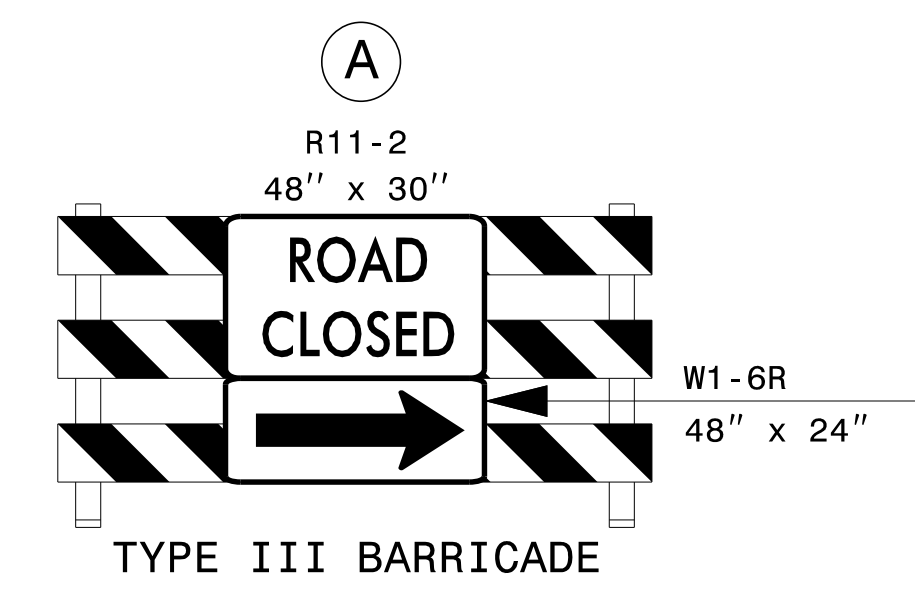


MEDIAN CLOSURE DETAIL (STEPS 1 - 3)

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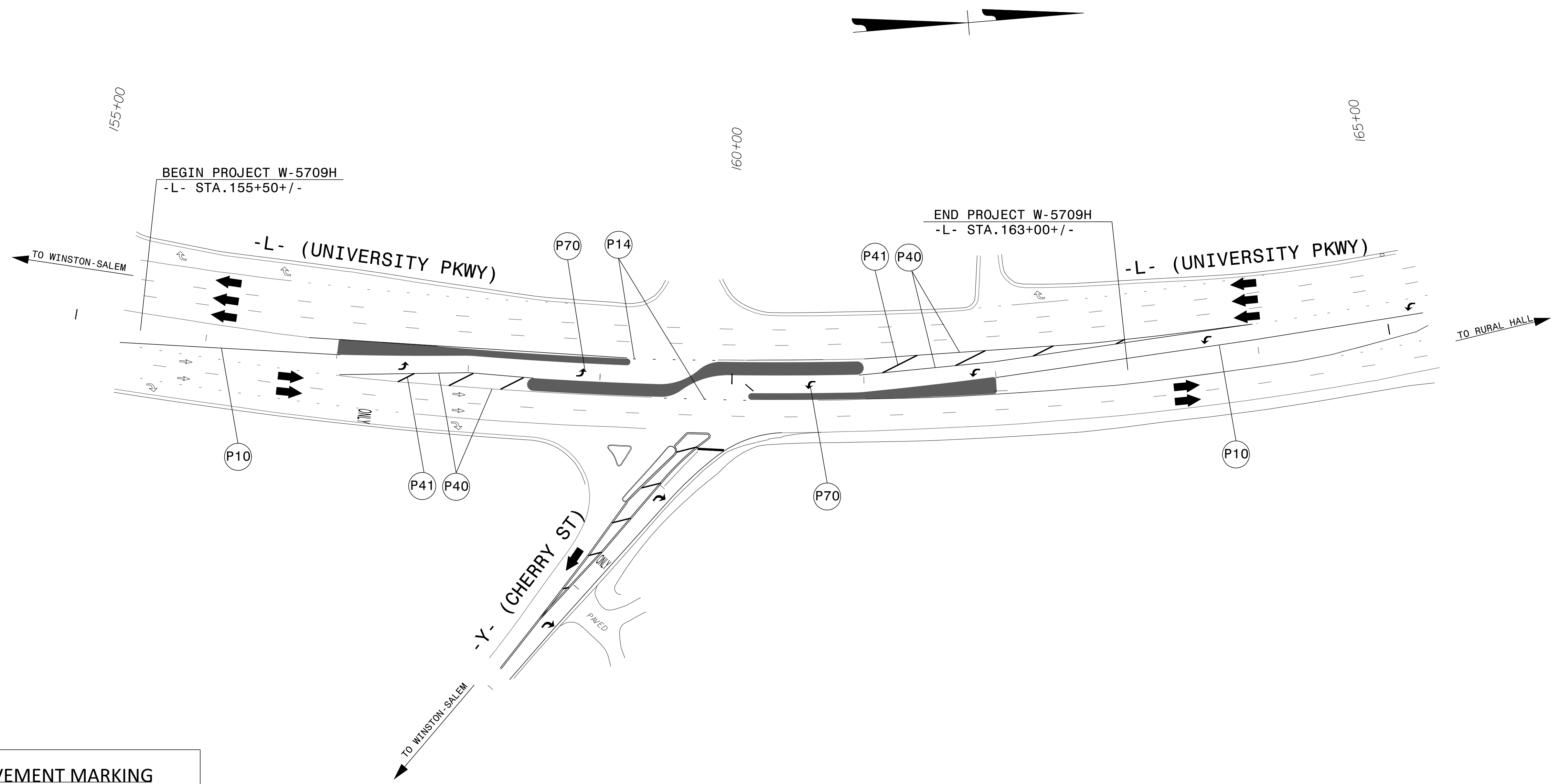
STEP 4:
 AWAY FROM TRAFFIC AND USING LANE CLOSURES, AS NEEDED, PERFORM THE FOLLOWINGS ON UNIVERSITY PKWY (-L-):

- COMPLETE PROPOSED DRAINAGE WORK ALONG MEDIAN
- CONSTRUCT PROPOSED INTERSECTION IMPROVEMENTS (DIRECTIONAL LEFTOVERS, AND CONCRETE ISLANDS)
- RESURFACING LIMITS ON UNIVERSITY PKWY (SEE ROADWAY PLANS)
- PLACE FINAL SURFACE COURSE AND FINAL PAVEMENT MARKINGS







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APPROVED: _____ DATE: _____			MEDIAN CONSTRUCTION DETAIL (STEP 4)
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TEMPORARY PAVEMENT MARKING

PAVEMENT MARKING LINES:

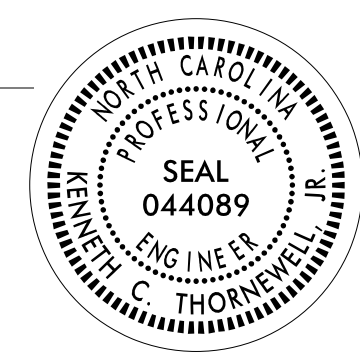
-  YELLOW EDGELINE PAINT (4")
-  YELLOW MINI-SKIP PAINT (4")
-  WHITE GORE LINE PAINT (8")
-  WHITE DIAGONAL PAINT (8")

PAVEMENT MARKING SYMBOLS AND CHARACTERS:

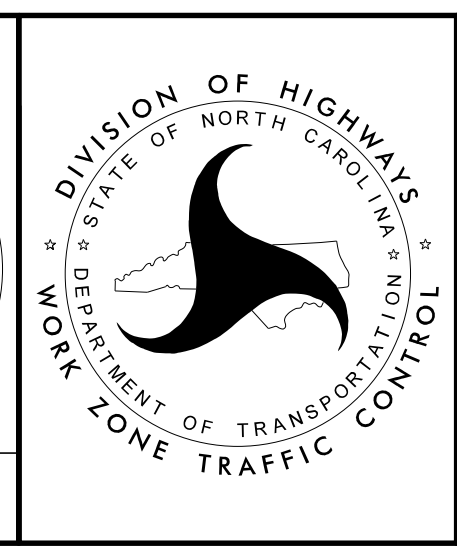
-  LEFT TURN ARROW PAINT

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**FINAL TRAFFIC PATTERN
(STEP 5)**

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 User: rskaya

TIP NO.	SHEET NO.
W-5709H	PMP - 1
APPROVED: _____	
DATE: _____	
SEAL	

**STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN
FORSYTH COUNTY**

**LOCATION: INTERSECTION OF UNIVERSITY PKWY
& CHERRY ST.**

INDEX

SHEET NO.	DESCRIPTION
PMP-1	TITLE SHEET, INDEX, FINAL PAVEMENT MARKING SCHEDULE, GENERAL NOTES & ROADWAY STANDARD DRAWINGS.
PMP-2	PAVEMENT MARKING DETAILS

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
UNIVERSITY PKWY. (-L-) and CHERRY ST. (-Y-)	Thermoplastic w/ Standard Beads	None

(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) PASSING ZONES WILL BE DETERMINED IN THE FIELD AND MUST BE APPROVED BY THE ENGINEER.

E) STOPBAR LOCATION AT NON-SIGNALIZED INTERSECTIONS MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER.

F) 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 (FINAL PAVEMENT MARKING)
	THERMOPLASTIC (4", 90 MILS)
T9	2 FT. - 6 FT. /SP YELLOW MINISKIP (4")
TD	3 FT. - 9 FT. /SP WHITE MINISKIP (4")
TA	WHITE EDGELINE (4")
TB	YELLOW EDGE LINE (4")
TI	YELLOW DOUBLE CENTER (4")
	THERMOPLASTIC (8", 90 MILS)
TN	WHITE GORELINE (8")
TO	WHITE CHEVRON GORELINE (8")
TP	YELLOW DIAGONAL (8")
	THERMOPLASTIC (24", 90 MILS)
T2	WHITE STOPBAR (24")
	THERMOPLASTIC PAVEMENT MARKING SYMBOLS (90 MILS)
UI	ALPHANUMERIC CHAR. "ONLY"
UA	LEFT TURN ARROW
UB	RIGHT TURN ARROW

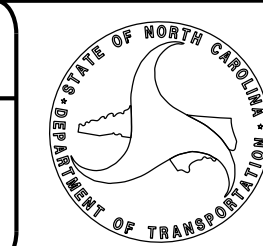
ROADWAY STANDARD DRAWING

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2018 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
1205.02	PAVEMENT MARKINGS - 2 LANE AND MULTILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.08	PAVEMENT MARKINGS - SYMBOL AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1267.01	FLEXIBLE DELINEATOR INSTALLATION

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

SCOTT A. JONES DIVISION 9 DDC ENGINEER

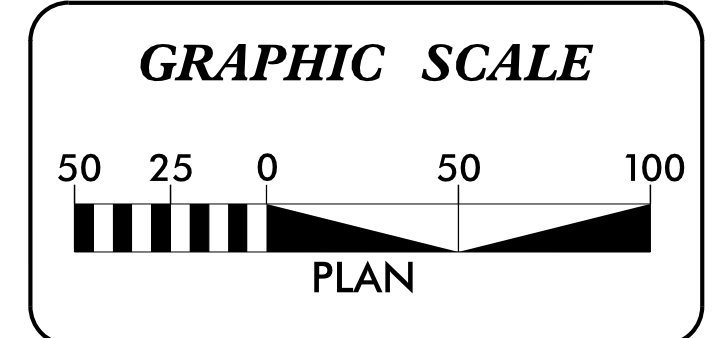
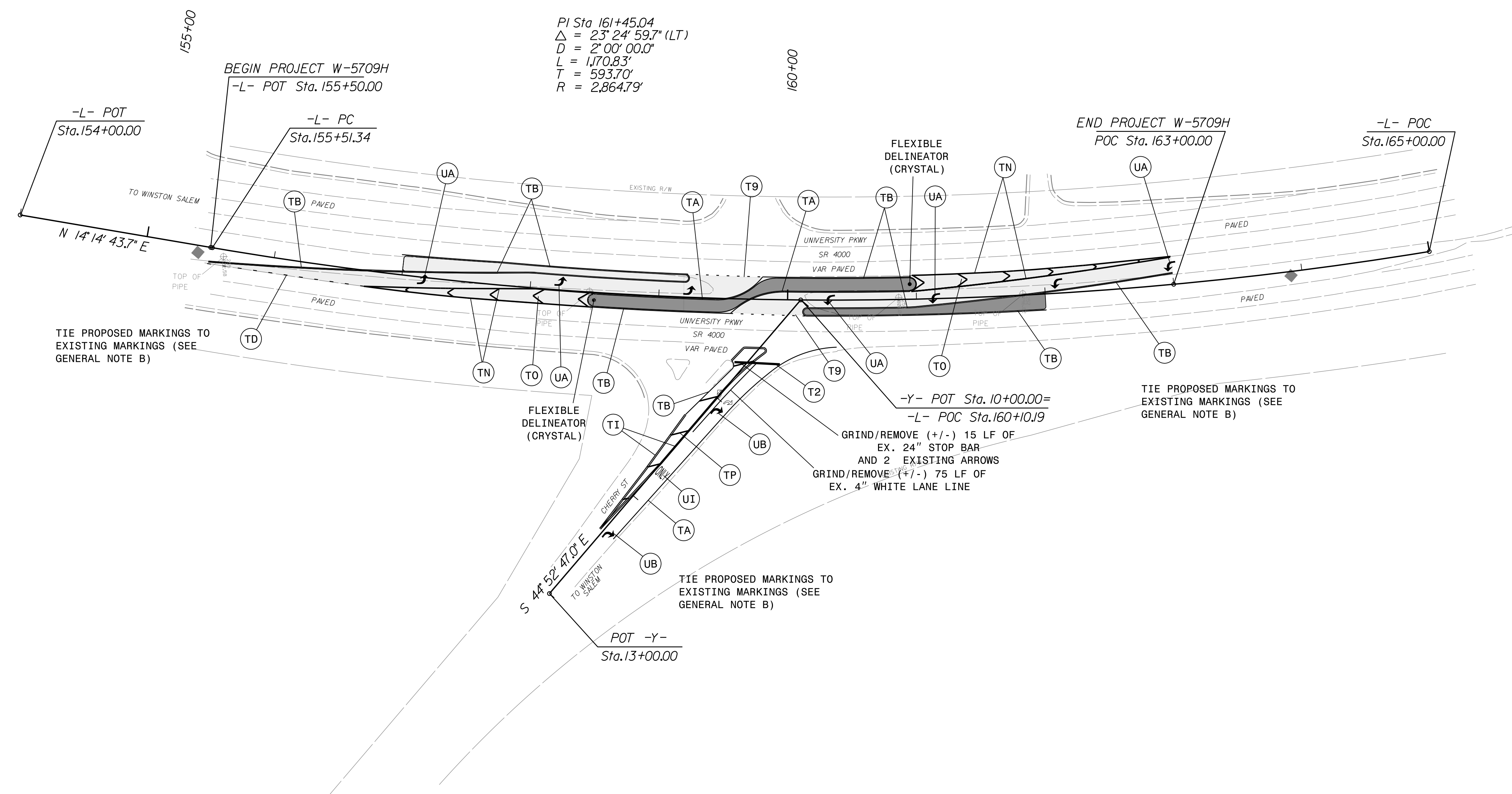


REVISIONS

8/17/99
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TIP NO.	SHEET NO.
W-5709H	PMP-2
APPROVED: _____	
DATE: _____	
SEAL	

8/17/99
 REVISIONS
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TIE PROPOSED MARKINGS TO EXISTING MARKINGS (SEE GENERAL NOTE B)

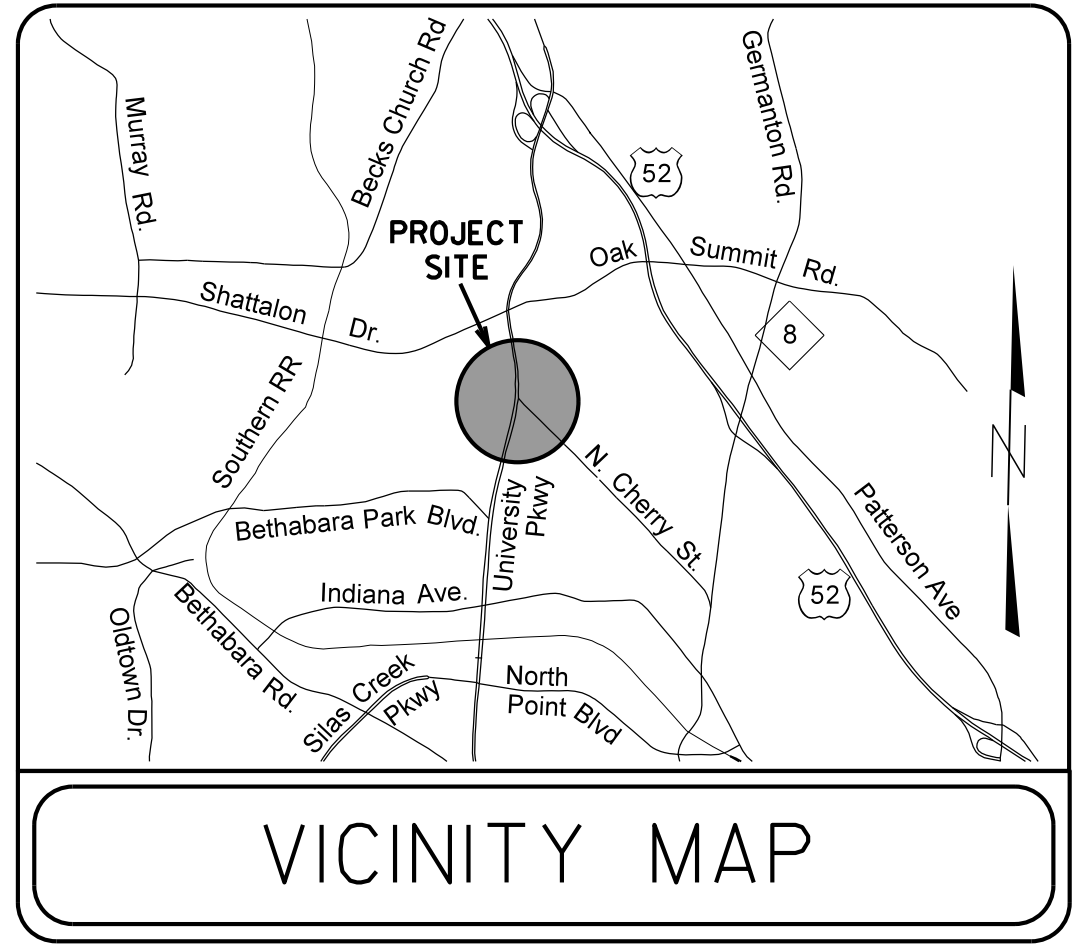
TIE PROPOSED MARKINGS TO EXISTING MARKINGS (SEE GENERAL NOTE B)

TIE PROPOSED MARKINGS TO EXISTING MARKINGS (SEE GENERAL NOTE B)

-Y- POT Sta. 10+00.00=
-L- POC Sta. 160+10.19
GRIND/REMOVE (+/-) 15 LF OF
EX. 24" STOP BAR
AND 2 EXISTING ARROWS
GRIND/REMOVE (+/-) 75 LF OF
EX. 4" WHITE LANE LINE

09/08/19

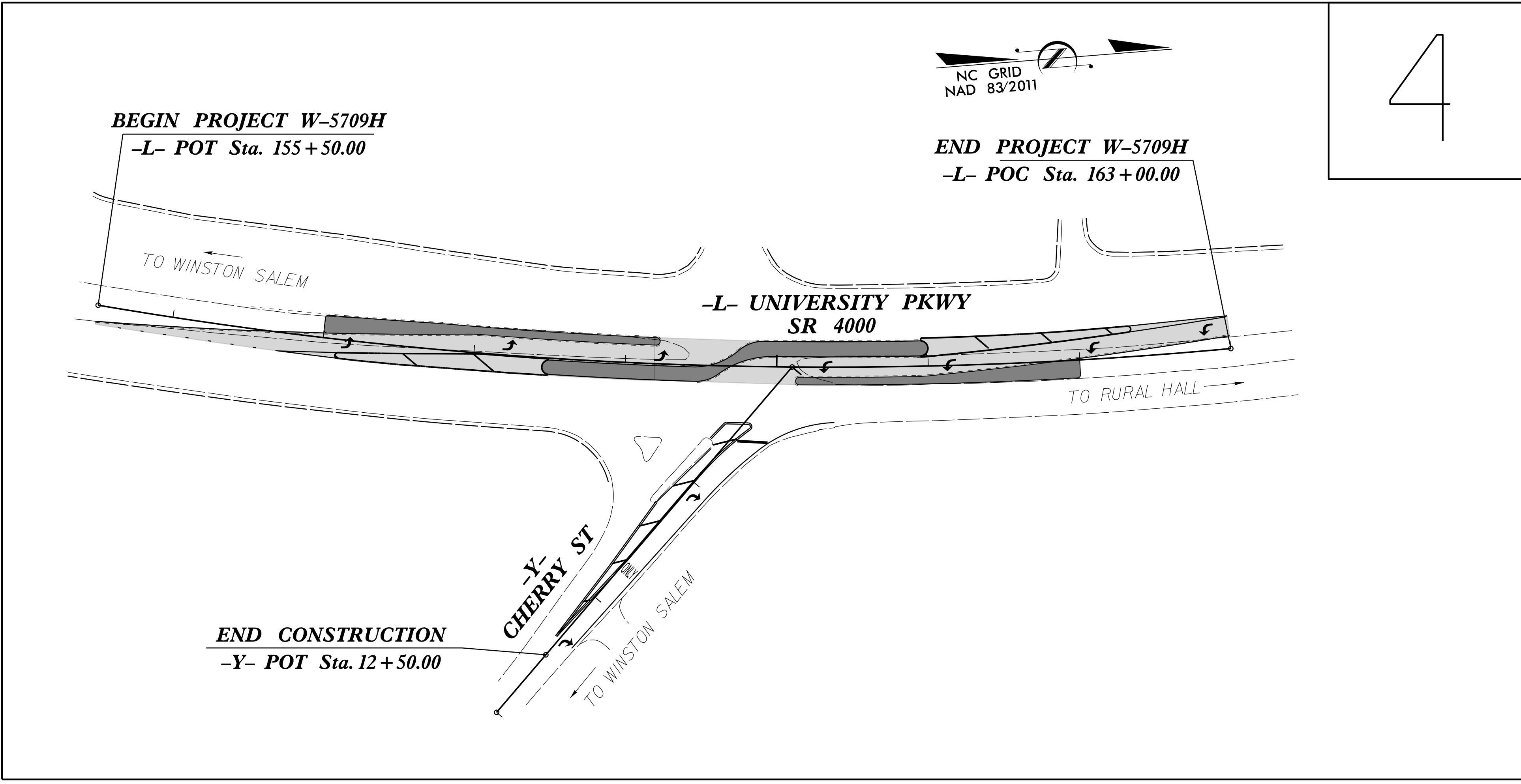
See Sheet 1A For Index of Sheets



TIP PROJECT: W-5709H

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.	W-5709H	EC-1	3
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
44855.1.8	HSIP-4000(001)	PE	

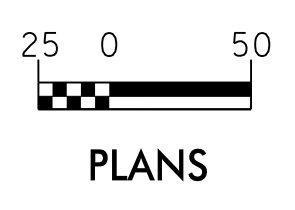


EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	III III III
1606.01	Special Sediment Control Fence	III III III
1622.01	Temporary Berms and Slope Drains	TD
1630.02	Silt Basin Type B	SB
1633.01	Temporary Rock Silt Check Type-A	RS
1633.02	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	RS
1633.02	Temporary Rock Silt Check Type-B	RS
1633.02	Wattle/Coir Fiber Wattle	W
1633.02	Wattle/Coir Fiber Wattle with Polyacrylamide (PAM)	W
1634.01	Temporary Rock Sediment Dam Type-A	RD
1634.02	Temporary Rock Sediment Dam Type-B	RD
1635.01	Rock Pipe Inlet Sediment Trap Type-A	RPI
1635.02	Rock Pipe Inlet Sediment Trap Type-B	RPI
1630.04	Stilling Basin	SB
1630.06	Special Stilling Basin	SB
1632.01	Rock Inlet Sediment Trap Type A	RIS
1632.02	Type B	RIS
1632.05	Type C	RIS
1630.04	Skimmer Basin	SB
1630.06	Tiered Skimmer Basin	SB
1630.06	Infiltration Basin	SB

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

GRAPHIC SCALE



ROADSIDE ENVIRONMENTAL UNIT
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY
WITH THE REGULATIONS SET FORTH BY THE
NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE AUGUST 3, 2011
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
2018 STANDARD SPECIFICATIONS

Designed by:
XX **XX**
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 Wattle
1630.06 Special Stilling Basin	1645.01 Temporary Stream Crossing
1631.01 Matting Installation	

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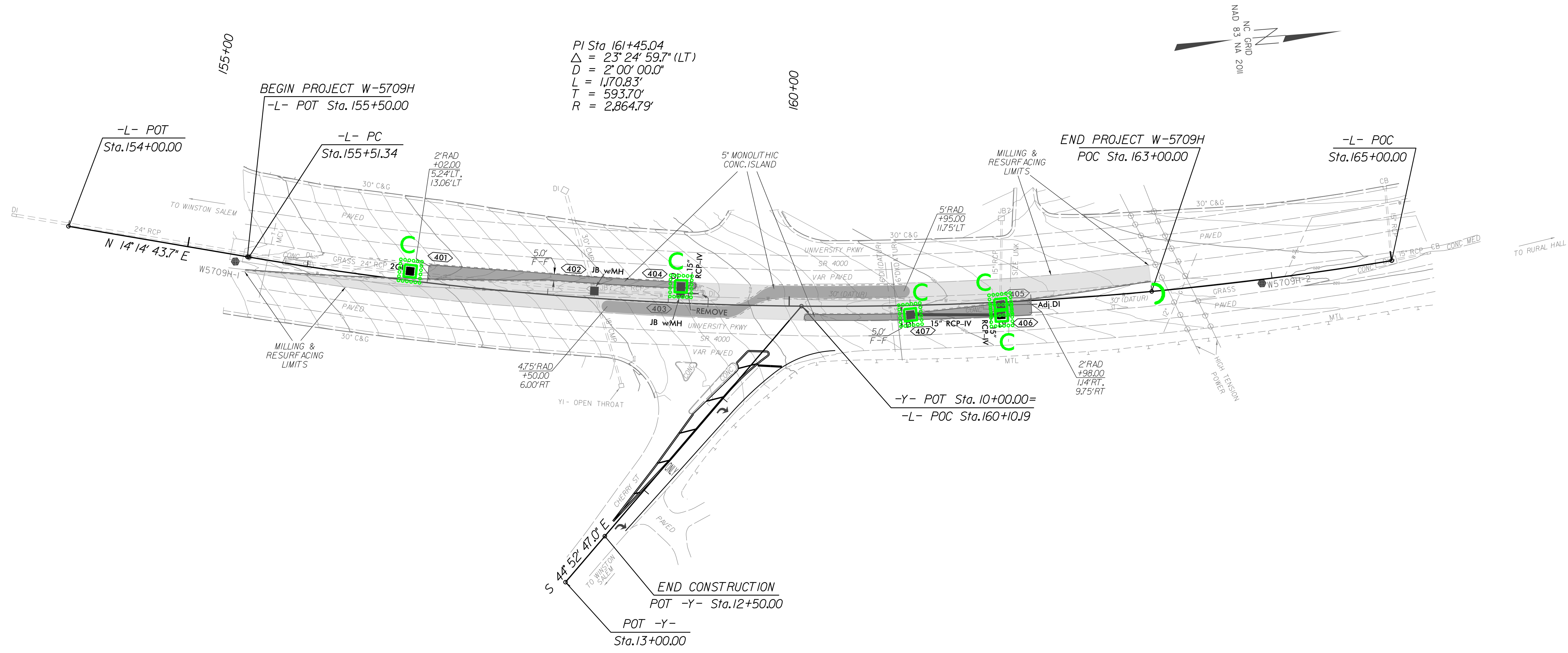
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO. <i>W-5709H</i>	SHEET NO. <i>EC-3A</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-5709H	EC-4/CONST.4
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



8/17/99

REVISIONS

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**STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION**

**SIGNING PLAN
FORSYTH COUNTY**

LOCATION: SR 4000 (UNIVERSITY PKWY) AT CHERRY ST IN WINSTON-SALEM

PROJECT REFERENCE NO. W-5709H	SHEET NO. SIGN-1
APPROVED: _____	
DATE: _____	
SEAL	
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T.I.P.: W-5709H

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 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

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	52	L.F.
4102000000	904	SIGN ERECTION, TYPE E	4	EA.
4155000000	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	2	EA.

INDEX

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

CONTRACT:

APPROVED: _____

DATE: _____

SEAL

PRELIMINARY
DO NOT USE FOR CONSTRUCTION

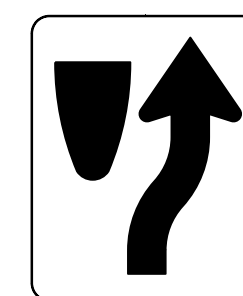
401 QUANTITY REQ'D _2_



36" x 12"
R6-1 (R)

TWO "U" POSTS PER SIGN

402 QUANTITY REQ'D _2_



24" X 30"
R4-7

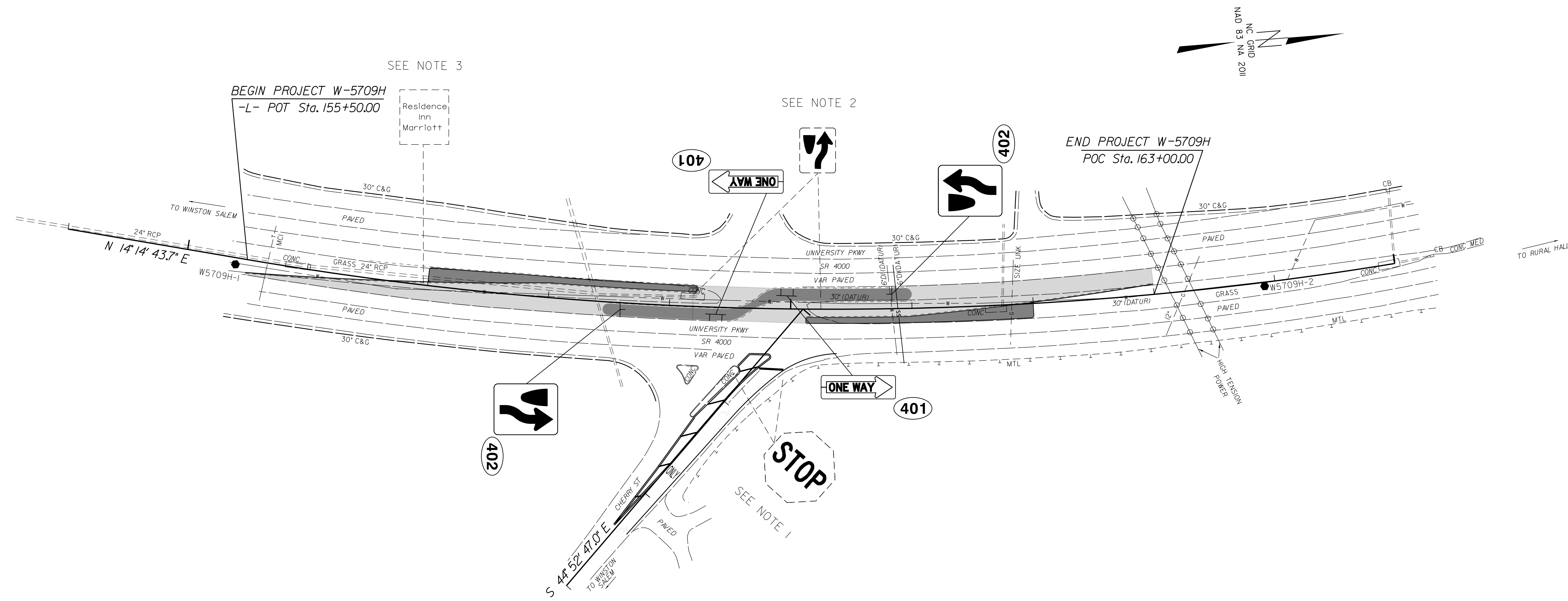
ONE "U" POST PER SIGN

TYPE "E" SIGNS

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W-5709H	SIGN-3
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SEAL	

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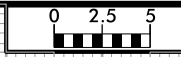


PROJECT NOTES

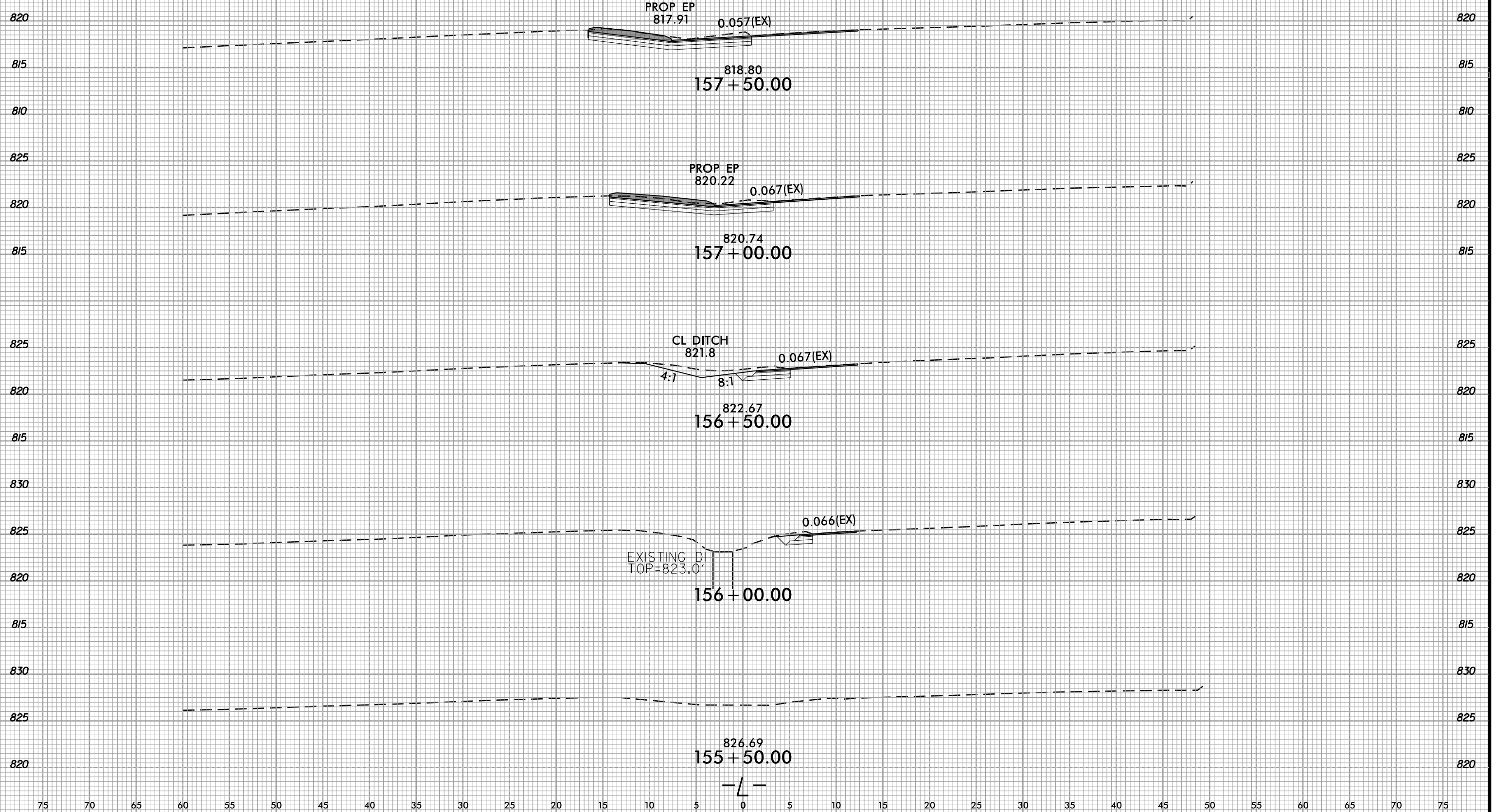
- NOTES:
- 1 EXISTING SIGN TO REMAIN
 - 2 DISPOSE OF SIGN SYSTEM, U-CHANNEL
 - 3 RELOCATE TO PROJECT BEGINNING

PROPOSED AND EXISTING SIGNS

6/23/16



75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

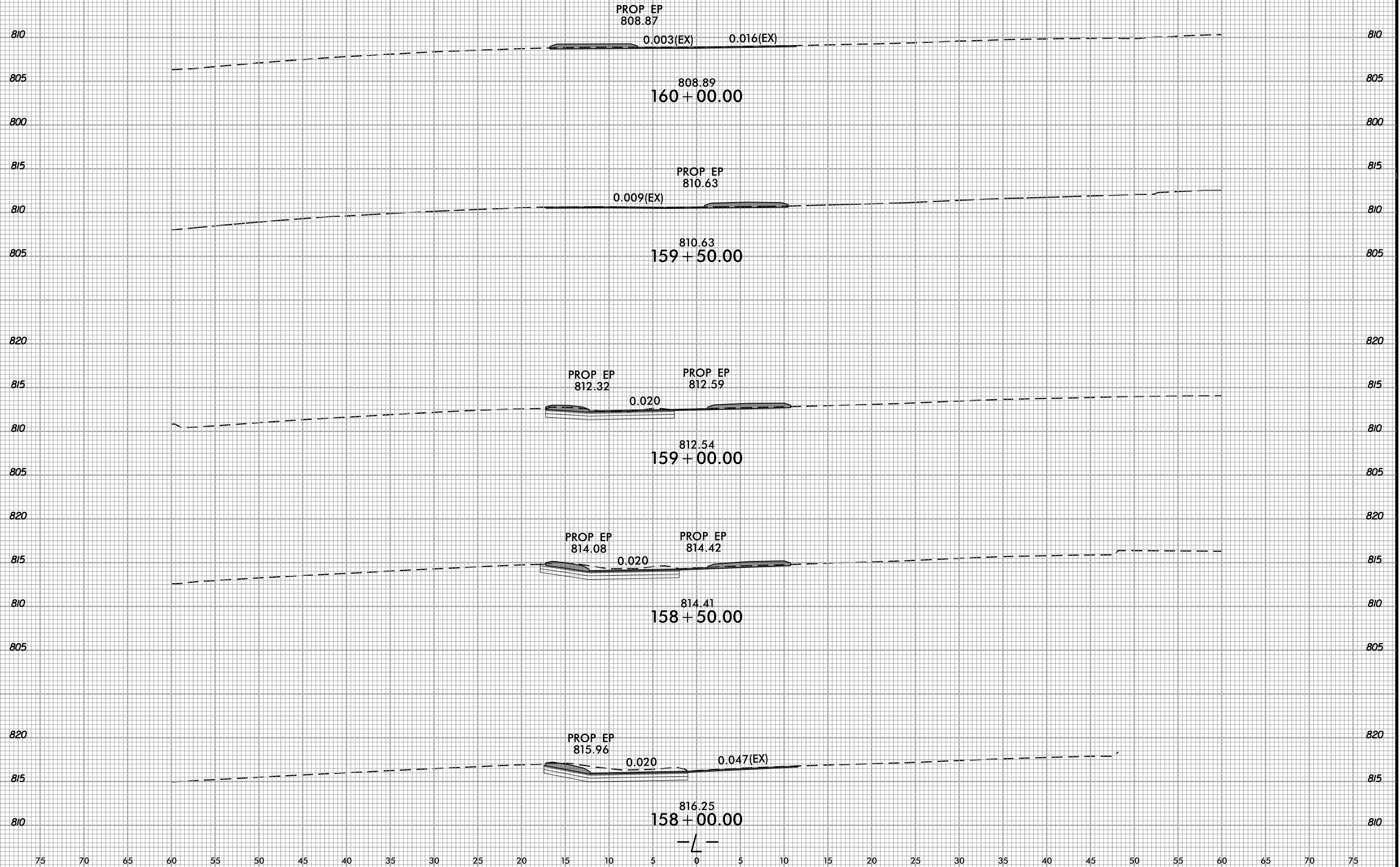


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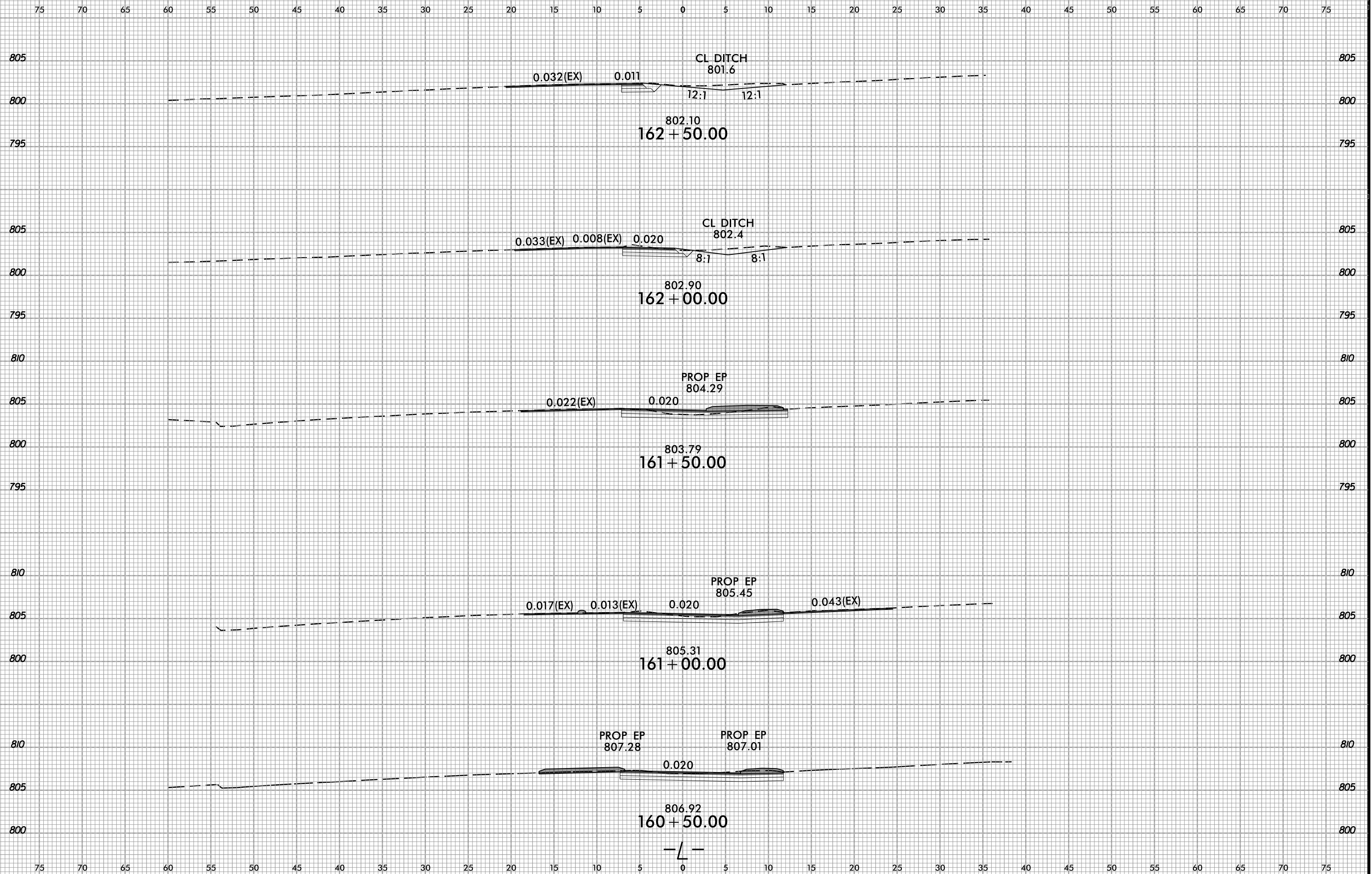
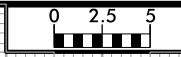
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75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75





75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

