

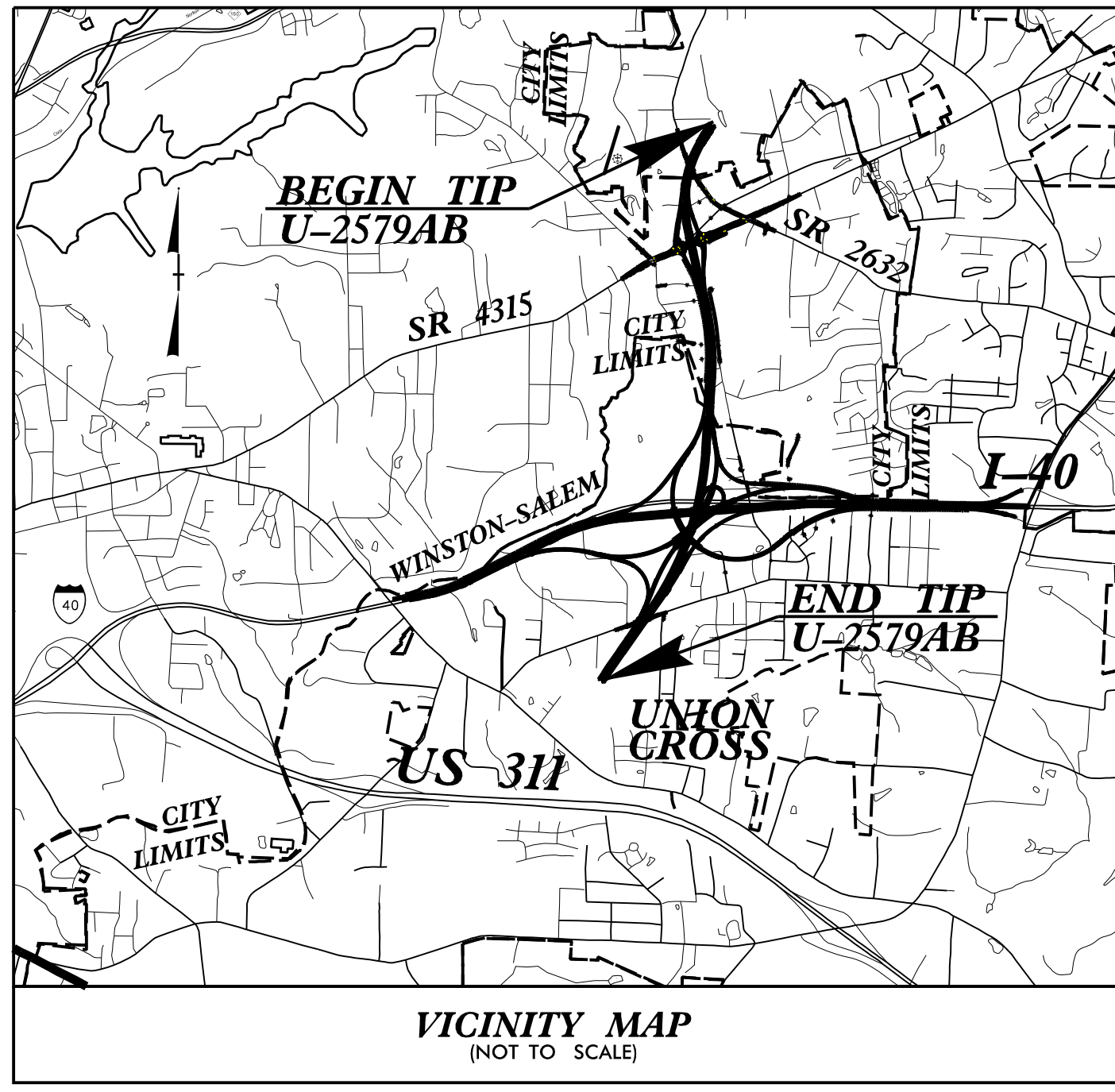
09_08/2021

See Sheet 1-A For Index of Sheets

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-2579AB	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
34839.1.8		P.E.	
34839.2.11	Multiple	RW & Util.	
34839.3.GV5	NHPIM-0040(68)	Constr.	

TIP PROJECT: U-2579AB



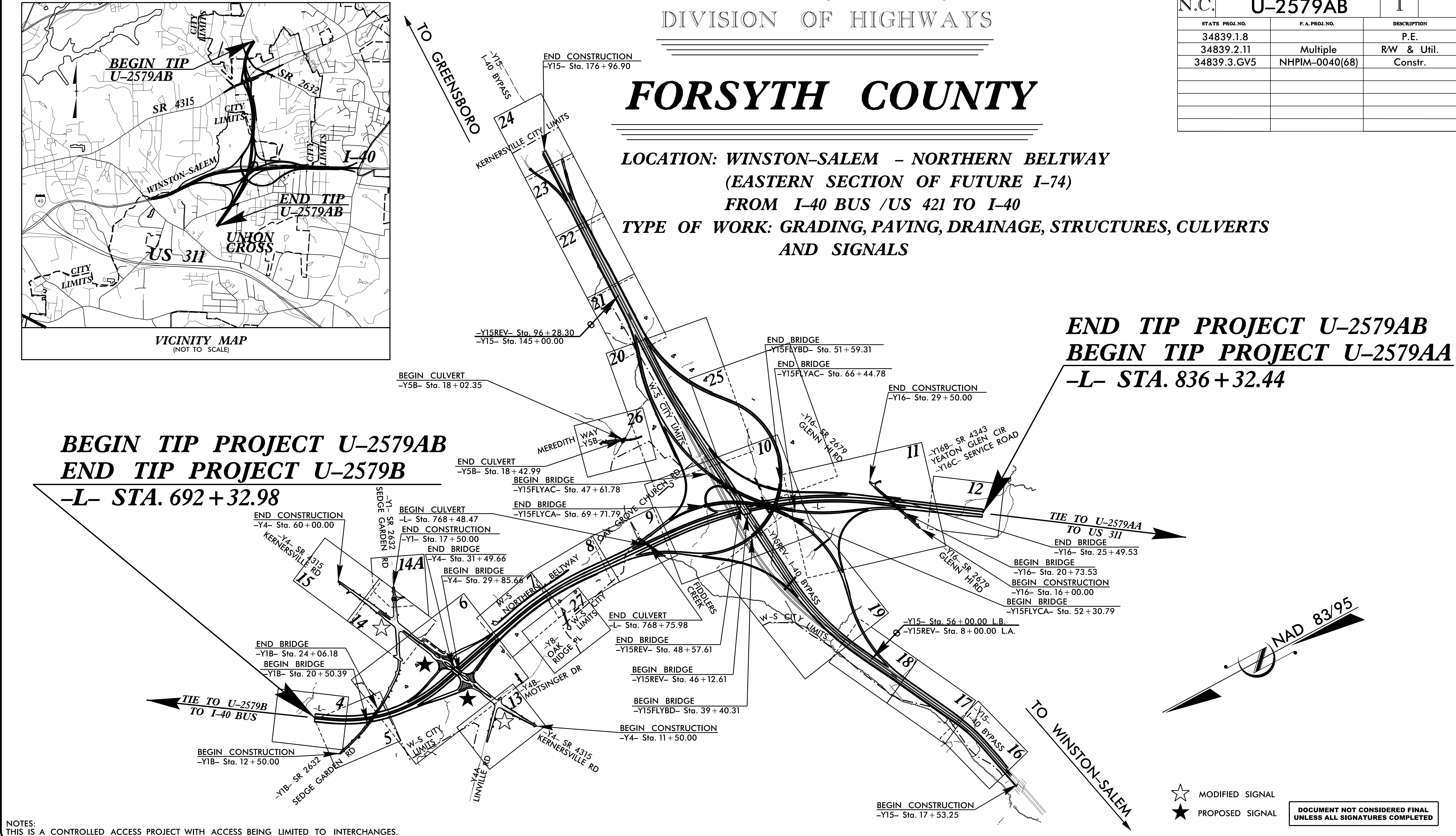
FORSYTH COUNTY

**LOCATION: WINSTON-SALEM - NORTHERN BELTWAY
(EASTERN SECTION OF FUTURE I-74)
FROM I-40 BUS /US 421 TO I-40**

**TYPE OF WORK: GRADING, PAVING, DRAINAGE, STRUCTURES, CULVERTS
AND SIGNALS**

**END TIP PROJECT U-2579AB
BEGIN TIP PROJECT U-2579AA
-L- STA. 836 + 32.44**

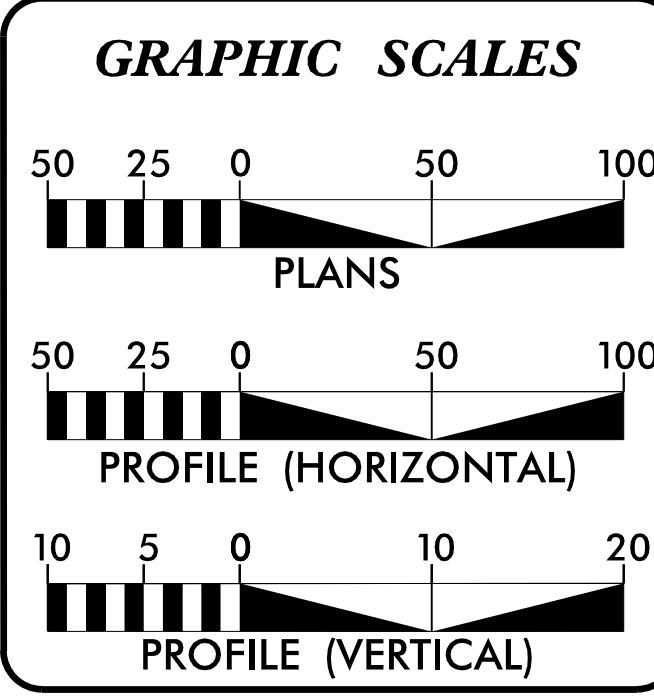
**BEGIN TIP PROJECT U-2579AB
END TIP PROJECT U-2579B
-L- STA. 692 + 32.98**



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 USER: CHARRIS
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 TIME: 12:39:47 PM
 DATE: 7/13/2021

CONTRACT: C204633

NOTES:
THIS IS A CONTROLLED ACCESS PROJECT WITH ACCESS BEING LIMITED TO INTERCHANGES.



DESIGN DATA	
ADT 2021 =	15,500
ADT 2041 =	20,500
K =	9 %
D =	70 %
T =	7 % *
V =	70 MPH
* TTST =	4% DUAL = 3%
FUNC CLASS =	INTERSTATE STATEWIDE TIER

PROJECT LENGTH	
LENGTH ROADWAY TIP PROJECT U-2579AB =	2.722 MILES
LENGTH STRUCTURES TIP PROJECT U-2579AB =	0.005 MILES
TOTAL LENGTH TIP PROJECT U-2579AB =	2.727 MILES

Prepared In the Office of:
HDR HDR Engineering, Inc. of the Carolinas
 555 Fayetteville St, Suite 900 Raleigh, N.C. 27601
 N.C.B.E.L.S. License Number: F-0116

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
JUNE 29, 2018

LETTING DATE:
DECEMBER 21, 2021

PHILLIP E. ROGERS, PE
PROJECT ENGINEER

CASEY E. HARRIS, PE
PROJECT DESIGN ENGINEER

ALLISON K. WHITE, PE
NCDOT CONTACT

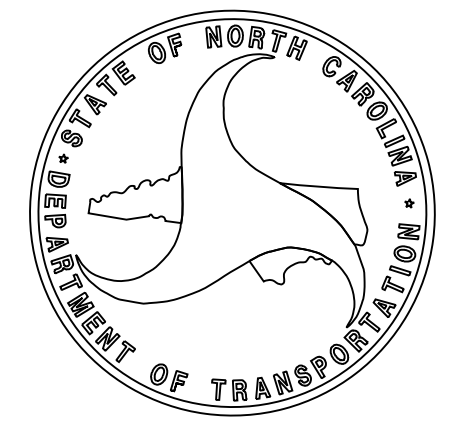
HYDRAULICS ENGINEER
P.E.

ROADWAY DESIGN ENGINEER
P.E.

SIGNATURE: 10/13/2021

SIGNATURE: 11/14/2021

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



INDEX OF SHEETS

SHEET NUMBER	SHEET
1	TITLE SHEET
1-A1 THRU 1-A2	INDEX OF SHEETS, GENERAL NOTES, AND STANDARD DRAWINGS
1-B	CONVENTIONAL SYMBOLS
2A-1 THRU 2A-14	PAVEMENT SCHEDULE, TYPICAL SECTIONS, WEDGING DETAILS AND SHOULDER DRAIN DETAILS
2B-1 THRU 2B-3	BRIDGE SKETCHES
2B-4 THRU 2B-10	DETOUR DETAILS
2B-11 THRU 2B-14	SHEAR POINT DIAGRAMS
2B-15 THRU 2B-19	INTERSECTION DETAIL SHEETS
2B-20 THRU 2B-21	GUARDRAIL LOCATION DETAIL FOR OVERHEAD ASSEMBLY "S" AND "FF"
2B-22	CONCRETE SLAB REPAIR DETAIL
2C-1	CURB RAMP DETAIL
2C-2	TYPE III ANCHOR UNIT DETAIL IN LIEU OF STANDARD
2C-3	GUARDRAIL INSTALLATION DETAIL SHEETS 1 & 2 IN LIEU OF STANDARD
2C-4	GUARDRAIL INSTALLATION DETAIL SHEET 6 IN LIEU OF STANDARD
2C-5	BRIDGE APPROACH SIDEWALK TRANSITION DETAIL
2C-6	MODIFIED B-77 TO DOUBLE FACE BARRIER DETAIL
2C-7	MEDIAN HAZARD PROTECTION & BARRIER TRANSITION DETAIL
2C-8	DDI BRIDGE BARRIER DETAIL
2C-9	TYPE III REINFORCED APPROACH FILLS DETAIL
2C-10	CABLE GUIDERAIL DETAIL
2C-11	8" NON-MOUNTABLE CONCRETE ISLAND DETAIL
2C-12	SPECIAL JUNCTION BOX W/ 72" PIPE DETAIL
2D-1 THRU 2D-5	DRAINAGE DETAILS
2G-1 THRU 2G-2	CULVERT UNDERCUT EXCAVATION DETAIL
2N-1 THRU 2N-16	NOISE WALL ENVELOPES
3B-1 THRU 3B-6	SUMMARY OF EARTHWORK, PAVEMENT REMOVAL, SHOULDER BERM GUTTER, CABLE GUIDERAIL, WOVEN WIRE FENCE, GUARDRAIL, TEMPORARY GUARDRAIL, AND CONCRETE PAVEMENT REPAIR.
3D-1 THRU 3D-27	DRAINAGE SUMMARIES
3G-1	GEOTECHNICAL SUMMARIES
3P-1 THRU 3P-5	PARCEL INDEX SHEETS
4 THRU 27	PLAN SHEETS
28 THRU 74	PROFILE SHEETS
RW-1 THRU RW-27	RIGHT OF WAY SHEETS AND SURVEY CONTROL
TMP-1 THRU TMP-8.09	TRANSPORTATION MANAGEMENT PLANS
PMP-1 THRU PMP-42	PAVEMENT MARKING PLANS
E-1 THRU E-3	ELECTRICAL PLANS
EC-1 THRU EC-54	EROSION CONTROL PLANS
RF-1	REFORESTATION PLANS
SIGN-1 THRU SIGN-19	SIGNING PLANS
SIG-1.0 THRU SIG-13.1	SIGNAL PLANS
SIG.M1 THRU SIG.M8	SIGNAL METAL POLE STANDARDS
SCP-1 THRU SCP-11	SIGNAL COMMUNICATION PLANS
ITS-1 THRU ITS-45	COMMUNICATION AND ITS PLANS
UC-1 THRU UC-32	UTILITY CONSTRUCTION PLANS
UO-1 THRU UO-20	UTILITY BY OTHERS PLANS
X-0	CROSS-SECTION INDEX
X-0A THRU X-0G	CROSS-SECTION SUMMARIES
X-1 THRU X-603	CROSS-SECTIONS
S1-1 THRU S1-47	BRIDGE #722
S2-1 THRU S2-37	BRIDGE #723
S3-1 THRU S3-61	BRIDGE #724
S4-1 THRU S4-144	BRIDGE #725
S5-1 THRU S5-116	BRIDGE #726
S6-1 THRU S6-129	BRIDGE #727
S7-1 THRU S7-48	BRIDGE #728
C1-1 THRU C1-11	CULVERT #749
C5-1 THRU C5-9	CULVERT #750
W-1 THRU W-5	WALL PLANS

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 - Method III
225.01	Guide for Grading Subgrade - Interstate and Freeway
225.02	Guide for Grading Subgrade - Secondary and Local
225.03	Deceleration and Acceleration Lanes
225.04	Method of Obtaining Superelevation - Two Lane Pavement
225.05	Method of Obtaining Superelevation - Divided Highways
225.09	Guide for Shoulder and Ditch Transition at Grade Separations
235.01	Embankment Monitoring
240.01	Guide for Berm Ditch Construction
DIVISION 3 - PIPE CULVERTS	
300.01	Method of Pipe Installation
310.10	Driveway Pipe Construction
DIVISION 4 - MAJOR STRUCTURES	
422.01	Bridge Approach Fills - Type I Standard Approach Fill
DIVISION 5 - SUBGRADE, BASES AND SHOULDERS	
560.01	Method of Shoulder Construction - High Side of Superelevated Curve - Method I
560.02	Method of Shoulder Construction - High Side of Superelevated Curve - Method II
DIVISION 6 - ASPHALT BASES AND PAVEMENTS	
610.03	Guide for Paving Shoulders Under Bridges - Method III
610.04	Guide for Paving Shoulders Under Bridges - Method IV
654.01	Pavement Repairs
665.01	Asphalt Shoulders - Milled Rumble Strips
DIVISION 7 - CONCRETE PAVEMENTS AND SHOULDERS	
700.01	Concrete Pavement Joints - Construction and Contraction Joints
700.02	Expansion Joint Layout - for Rigid Doweled Pavement at Bridges
700.03	Dowel Assembly
700.04	Concrete Pavement Header Board
700.05	Tying Proposed Pavement to Existing
720.01	Concrete Shoulders - Stamped or Rolled Rumble Strips, Milled Rumble Strips
DIVISION 8 - INCIDENTALS	
806.01	Concrete Right-of-Way Marker
806.02	Granite Right-of-Way Marker
806.03	Concrete Control of Access Marker
815.02	Subsurface Drain
816.01	Concrete Pads - for Shoulder Drain Installation
816.02	Aggregate Shoulder Drain
816.04	Markers for Drainage Structure and Concrete Pad
838.01	Concrete Endwall for Single and Double Pipe Culverts - 15" thru 48" Pipe 90 Skew
838.05	Concrete 'L' Endwall for Single Pipe Culverts - 15" thru 48" Pipe
838.11	Brick Endwall for Single and Double Pipe Culverts - 15" thru 48" Pipe 90 Skew
838.15	Brick 'L' Endwall for Single Pipe Culverts - 15" thru 48" Pipe
838.21	Reinforced Concrete Endwall - for Single 54" Pipe 90 Skew
838.27	Reinforced Concrete Endwall - for Single 60" Pipe 90 Skew
838.39	Reinforced Concrete Endwall - for Single 72" Pipe 90 Skew
838.45	Notes for Reinforced Concrete Endwall - Std. Dwg 838.21 thru 838.40
838.51	Reinforced Brick Endwall - for Single 54" Pipe 90 Skew
838.57	Reinforced Brick Endwall - for Single 60" Pipe 90 Skew
838.69	Reinforced Brick Endwall - for Single 72" Pipe 90 Skew
838.75	Notes for Reinforced Brick Endwall - Std. Dwg 838.51 thru 838.70
838.80	Precast Endwalls - 12" thru 72" Pipe 90 Skew
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
840.04	Concrete Open Throat Catch Basin - 12" thru 48" Pipe
840.05	Brick Open Throat Catch Basin - 12" thru 48" 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
840.17	Concrete Grated Drop Inlet Type 'A' - 12" thru 72" Pipe
840.18	Concrete Grated Drop Inlet Type 'B' - 12" thru 36" Pipe
840.19	Concrete Grated Drop Inlet Type 'D' - 12" thru 36" Pipe
840.20	Frames and Wide Slot Flat Grates
840.22	Frames and Wide Slot Sag Grates
840.24	Frames and Narrow Slot Sag Grates
840.25	Anchorage for Frames - Brick or Concrete or Precast
840.26	Brick Grated Drop Inlet Type 'A' - 12" thru 72" Pipe
840.27	Brick Grated Drop Inlet Type 'B' - 12" thru 36" Pipe
840.28	Brick Grated Drop Inlet Type 'D' - 12" thru 36" Pipe
840.29	Frames and Narrow Slot Flat Grates
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
840.36	Traffic Bearing Grated Drop Inlet - for Steel (840.37) Double Frame and Grates
840.37	Steel Grate and Frame

2018 ROADWAY ENGLISH STANDARD DRAWINGS (CONTINUED)


840.45	Precast Drainage Structure
840.46	Traffic Bearing Precast Drainage Structure
840.54	Manhole Frame and Cover
840.66	Drainage Structure Steps
840.71	Concrete and Brick Pipe Plug
840.72	Pipe Collar
846.01	Concrete Curb, Gutter and Curb & Gutter
846.02	Drop Inlet Installation in Expressway Gutter
846.04	Drop Inlet Installation in Shoulder Berm Gutter
848.01	Concrete Sidewalk
848.02	Driveway Turnout - Radius Type
848.04	Street Turnout
848.05	Curb Ramp - Proposed Curb & Gutter
850.10	Guide for Berm Drainage Outlet - 15" and 18" Pipe
850.11	Guide for Berm Drainage Outlet - 24" and 30" Pipe
852.01	Concrete Islands
852.06	Method for Placement of Drop Inlets in Concrete Islands
852.10	Median Construction - with Curb and Gutter
854.02	Double Faced Concrete Barrier - Types 'T', 'T1' and 'T2'
854.05	Concrete Median Transition Barrier - Location of Overhead Assembly
857.01	Precast Reinforced Concrete Barrier - 41" Single Faced
862.01	Guardrail Placement
862.02	Guardrail Installation
862.03	Structure Anchor Units
862.04	Anchoring End of Guardrail - B-77 and B-83 Anchor Units
865.01	Cable Guiderail
866.02	Woven Wire Fence - with Wood Post
876.01	Rip Rap in Channels
876.02	Guide for Rip Rap at Pipe Outlets
876.04	Drainage Ditches with Class 'B' Rip Rap

REVISIONS

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TIME: 3:10:12 PM

8/17/99

HDR HDR Engineering, Inc. of the Carolinas
555 Fayetteville St, Suite 900 Raleigh, N.C. 27601
N.C.B.E.L.S. License Number: F-0116

PROJECT REFERENCE NO.	SHEET NO.
U-2579AB	1-A2
ROADWAY DESIGN ENGINEER	
	
10/14/2021	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

GENERAL NOTES

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 METHOD III.

SUPERELEVATION:

ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NO. 225.05 AND 225.05 USING THE RATE OF SUPERELEVATION AND RUNOFF SHOWN ON THE PLANS. SUPERELEVATION IS TO BE REVOLVED ABOUT THE GRADE POINTS SHOWN ON THE TYPICAL SECTIONS.

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.

BERM DITCHES:

BERM DITCHES SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 240.01 AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

SUBSURFACE DRAINS:

SUBSURFACE DRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 815.02 AT LOCATIONS DIRECTED BY THE ENGINEER.

SHOULDER DRAINS:

SHOULDER DRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 816.02 AND DETAILS IN PLANS AT LOCATIONS DIRECTED BY THE ENGINEER.

DRIVEWAYS:

DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. 848.02 USING 3 FOOT RADII OR RADII AS SHOWN ON THE PLANS. LOCATIONS OF DRIVES WILL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

STREET TURNOUT:

STREET RETURNS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 848.04 USING THE RADII NOTED ON PLANS.

GUARDRAIL:

THE GUARDRAIL LOCATIONS SHOWN ON THE PLANS MAY BE ADJUSTED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHOULD CONSULT WITH THE ENGINEER PRIOR TO ORDERING GUARDRAIL MATERIAL.

TEMPORARY SHORING:

SHORING REQUIRED FOR THE MAINTENANCE OF TRAFFIC WILL BE PAID FOR AS "EXTRA WORK" IN ACCORDANCE WITH SECTION 104-7.

END BENTS:

THE ENGINEER SHALL CHECK THE STRUCTURE END BENT PLANS, DETAILS, AND CROSS-SECTION PRIOR TO SETTING OF THE SLOPE STAKES FOR THE EMBANKMENT OR EXCAVATION APPROACHING A BRIDGE.

GENERAL NOTES (CONTINUED)

UTILITIES:

UTILITY OWNERS ON THIS PROJECT ARE:

DUKE ENERGY - POWER (DISTRIBUTION), DUKE TRANSMISSION - POWER (TRANSMISSION)
AT&T - COMMUNICATIONS, CHARTER - COMMUNICATIONS, NORTH STATE - COMMUNICATIONS
PIEDMONT NATURAL GAS - GAS, CITY OF WINSTON SALEM - WATER & SEWER

ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS, EXCEPT AS SHOWN ON THE PLANS.

RIGHT-OF-WAY MARKERS:

ALL RIGHT-OF-WAY MARKERS ON THIS PROJECT SHALL BE PLACED BY CONTRACT.

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.

ROCK

ROCK IS ANTICIPATED BETWEEN -L- 710+50 TO 714+50 PLUS ADJACENT -Y4RPA- & -Y4RPB-, 775+00 TO 779+00, 782+00 TO 786+00, -Y15FLYCA- 74+00 TO 77+50, & -Y15LPA- 13+00 TO 15+50. BLASTING MAY BE REQUIRED FOR EXCAVATION ON THE PROJECT. SEE SECTION 220 OF THE

REVISIONS

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STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

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	-----
New Right of Way Line with Pin and Cap	-----
New Right of Way Line with Concrete or Granite R/W 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	-----
New Permanent Drainage Easement	-----
New Permanent Drainage / Utility Easement	-----
New Permanent Utility Easement	-----
New Temporary Utility Easement	-----
New Aerial Utility Easement	-----

ROADS AND RELATED FEATURES:

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

VEGETATION:

Single Tree	○
Single Shrub	○

Note: Not to Scale

*S.U.E. = Subsurface Utility Engineering

Hedge	-----
Woods Line	-----
Orchard	-----
Vineyard	-----

EXISTING STRUCTURES:

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

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.*)	-----
U/G Power Line LOS C (S.U.E.*)	-----
U/G Power Line LOS D (S.U.E.*)	-----

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.*)	-----
U/G Telephone Cable LOS C (S.U.E.*)	-----
U/G Telephone Cable LOS D (S.U.E.*)	-----
U/G Telephone Conduit LOS B (S.U.E.*)	-----
U/G Telephone Conduit LOS C (S.U.E.*)	-----
U/G Telephone Conduit LOS D (S.U.E.*)	-----
U/G Fiber Optics Cable LOS B (S.U.E.*)	-----
U/G Fiber Optics Cable LOS C (S.U.E.*)	-----
U/G Fiber Optics Cable LOS D (S.U.E.*)	-----

WATER:

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

TV:

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

GAS:

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

SANITARY SEWER:

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

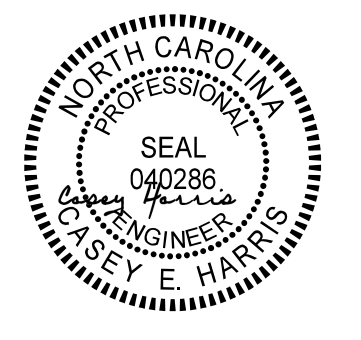
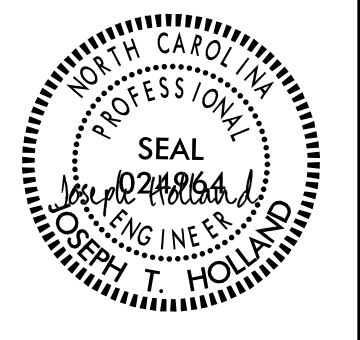

MISCELLANEOUS:

Utility Pole	●
Utility Pole with Base	□
Utility Located Object	○
Utility Traffic Signal Box	⊕
Utility Unknown U/G Line LOS B (S.U.E.*)	-----
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	-----
End of Information	-----

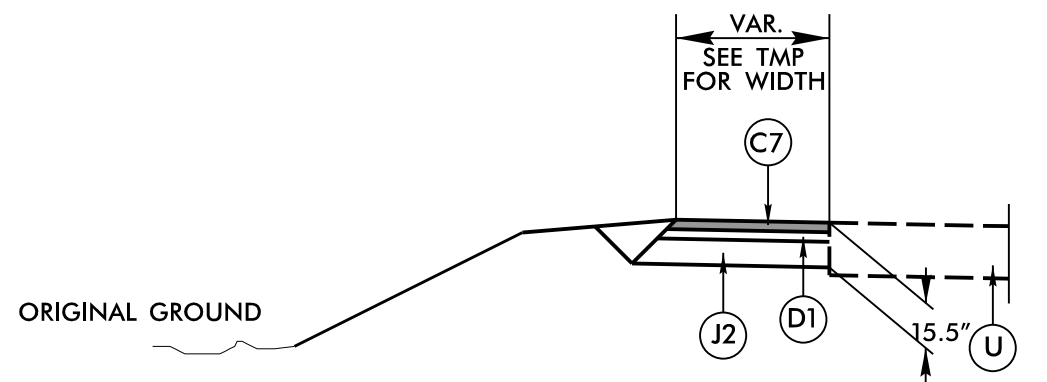
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12/2/2016

6/2/2019

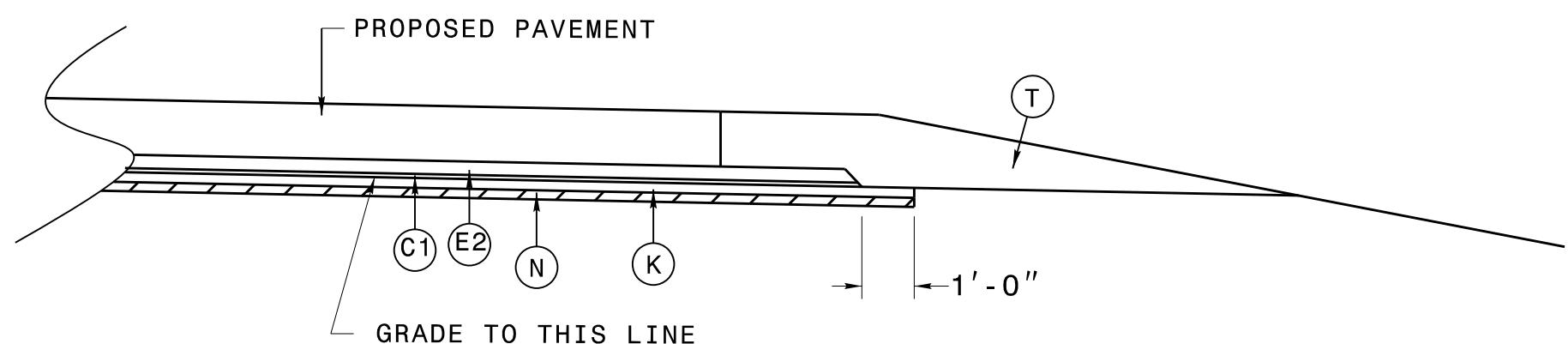
PROJECT REFERENCE NO. U-2579AB	SHEET NO. 2A-1
ROADWAY DESIGN ENGINEER 	PAVEMENT DESIGN ENGINEER 
10/13/2021	10/13/2021
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
 HDR Engineering, Inc. of the Carolinas 555 Fayetteville St. Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	

PAVEMENT SCHEDULE					
(FINAL PAVEMENT DESIGN)					
A1	12" JOINTED PORTLAND CEMENT CONCRETE PAVEMENT WITH DOWELS.	E2	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.	R6	DDI BARRIER WITH MOMENT SLAB.
A2	12" JOINTED PORTLAND CEMENT CONCRETE PAVEMENT WITHOUT DOWELS.	E3	PROP. APPROX. 7" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 399 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.	R7	4" CONCRETE COVER.
A3	7" PORTLAND CEMENT JOINTED CONCRETE PAVEMENT TRUCK APRON WITH 4x4 W3.5xW3.5 WELDED WIRE REINFORCEMENT PLACED NEAR THE CENTER OF THE SLAB IN LIEU OF DOWELS.	E4	PROP. APPROX. 9" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 513 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.	R8	SHOULDER BERM GUTTER.
C1	PROP. APPROX. 1 1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 138 LBS. PER SQ. YARD.	E5	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 1/2" IN DEPTH.	R9	MODIFIED CONCRETE 2'-6" CURB AND GUTTER.
C2	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YARD.	J1	PROP. 8" AGGREGATE BASE COURSE.	R10	MODIFIED CONCRETE VALLEY GUTTER. (SEE SHEET 2A-2)
C3	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.	J2	PROP. 10" AGGREGATE BASE COURSE.	R11	CONCRETE EXPRESSWAY GUTTER.
C4	PROP. APPROX. 2 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 138 LBS. PER SQ. YARD. IN EACH OF TWO LAYERS.	K	10" CLASS IV SUBGRADE STABILIZATION.	S	4" CONCRETE SIDEWALK.
C5	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.	N	GEOTEXTILE FOR SOIL STABILIZATION, TYPE 4.	T	EARTH MATERIAL.
C6	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 1 1/2" IN DEPTH.	P	PRIME COAT AT A RATE OF 0.35 GAL. PER SQ. YD.	U	EXISTING PAVEMENT.
C7	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.	R1	1'-6" CONCRETE CURB AND GUTTER.	V	RUMBLE STRIPS.
D1	PROP. APPROX. 2 1/2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.	R2	2'-6" CONCRETE CURB AND GUTTER.	W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE WEDGING DETAIL).
D2	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.	R3	5" MONOLITHIC CONCRETE ISLAND (KEYED IN).	Y	INCIDENTAL MILLING.
D3	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.	R4	CONCRETE BARRIER.	Z	DIAMOND GRINDING.
E1	PROP. APPROX. 3" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD.	R5	DOUBLE FACE CONCRETE BARRIER (TYPE T).		



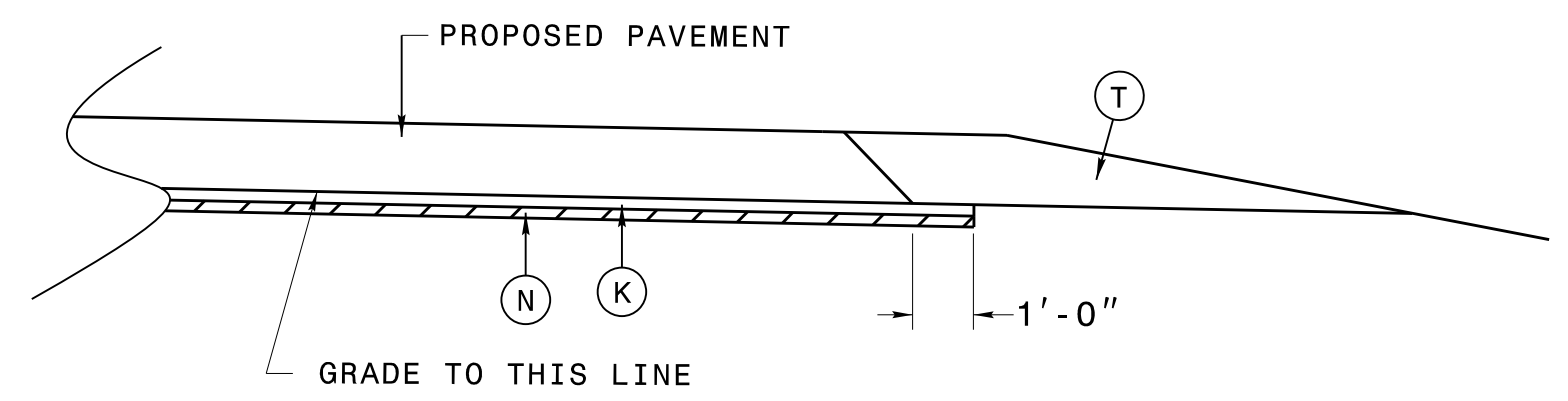
DETAIL OF TEMPORARY WIDENING FOR LOCATIONS UNDER TRAFFIC (SEE TMP PLANS FOR ADDITIONAL INFORMATION)

- Y15- STA. 18+73 TO 72+83 RT
- Y15- STA. 113+00 TO 172+07 RT
- Y15- STA. 53+12 TO -Y15REV- 19+46 RT
- Y15REV- STA. 31+87 TO 43+36 RT
- Y15REV- STA. 71+60 TO 83+45 RT



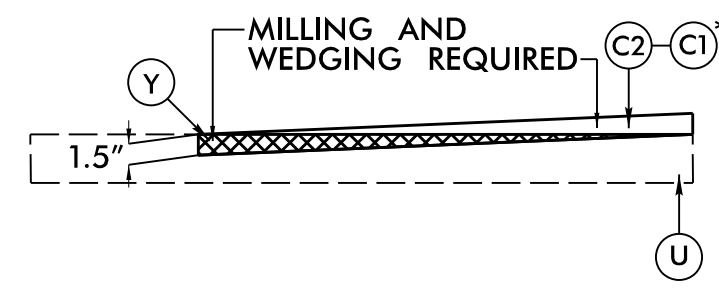
SUBGRADE STABILIZATION

-Y15-, -Y15REV-
(SEE SUMMARY ON SHEET 3G-1 FOR LOCATIONS)



SUBGRADE STABILIZATION

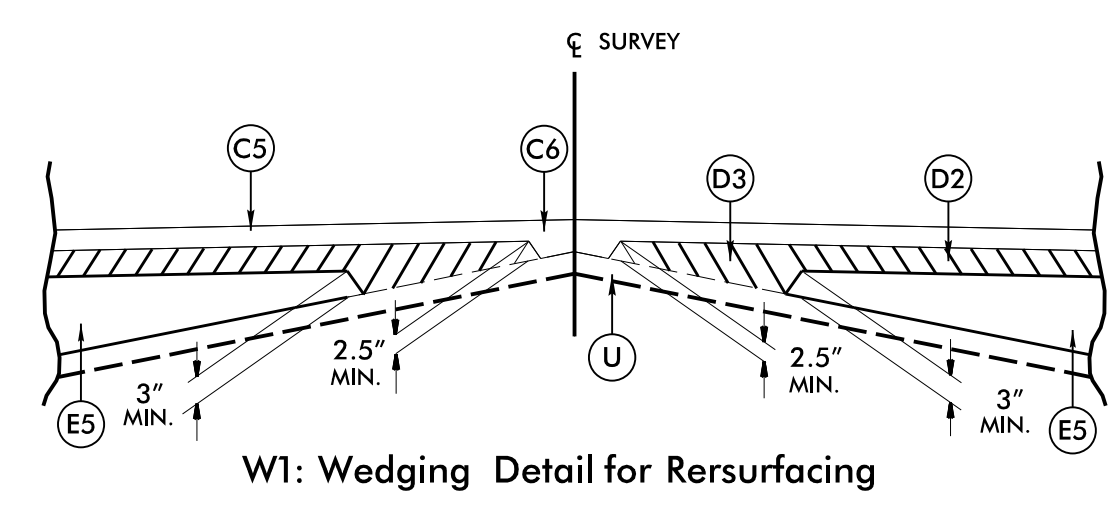
-L-, -Y15FLYAC-, -Y15FLYBD-, -Y15FLYCA-, -Y15RPA-,
-Y15LPA-, -Y15RPB-, -Y15RPC-, -Y15RPDREV-
(SEE SUMMARY ON SHEET 3G-1 FOR LOCATIONS)



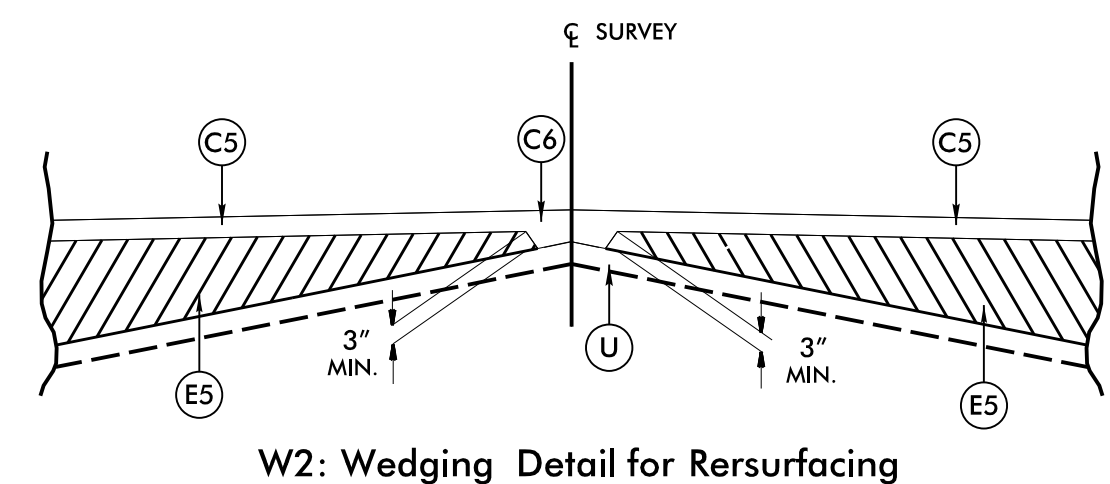
USE INCIDENTAL MILLING DETAIL

- *-SRI- STA. 28+50.00 TO STA. 29+00.00
- Y1B- STA. 12+50.00 TO STA. 13+00.00
- Y1- STA. 17+00.00 TO STA. 17+50.00
- Y1A- STA. 11+50.00 TO STA. 12+00.00
- Y4- STA. 11+50.00 TO STA. 12+00.00
- Y4- STA. 59+50.00 TO STA. 60+00.00
- Y4A- STA. 17+50.00 TO STA. 18+00.00
- Y5B- STA. 14+50.00 TO STA. 15+00.00
- Y5B- STA. 22+50.00 TO STA. 23+00.00
- Y8- STA. 12+85.00 TO STA. 13+60.00
- Y8- STA. 16+00.00 TO STA. 16+50.00
- *-Y16B- STA. 12+00.00 TO STA. 12+50.00

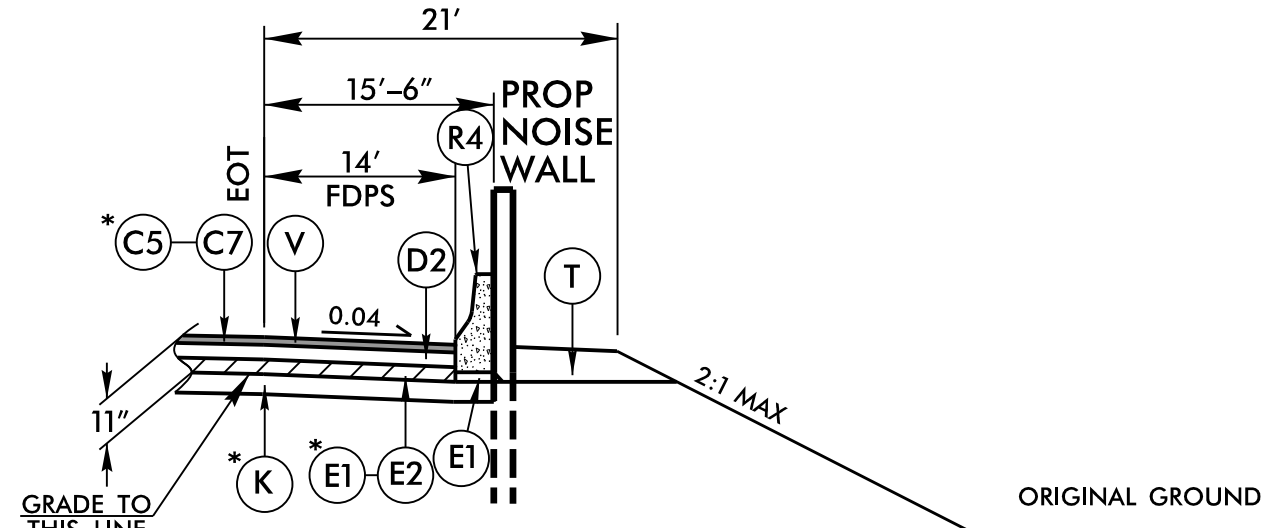
NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.



W1: Wedging Detail for Rersurfacing

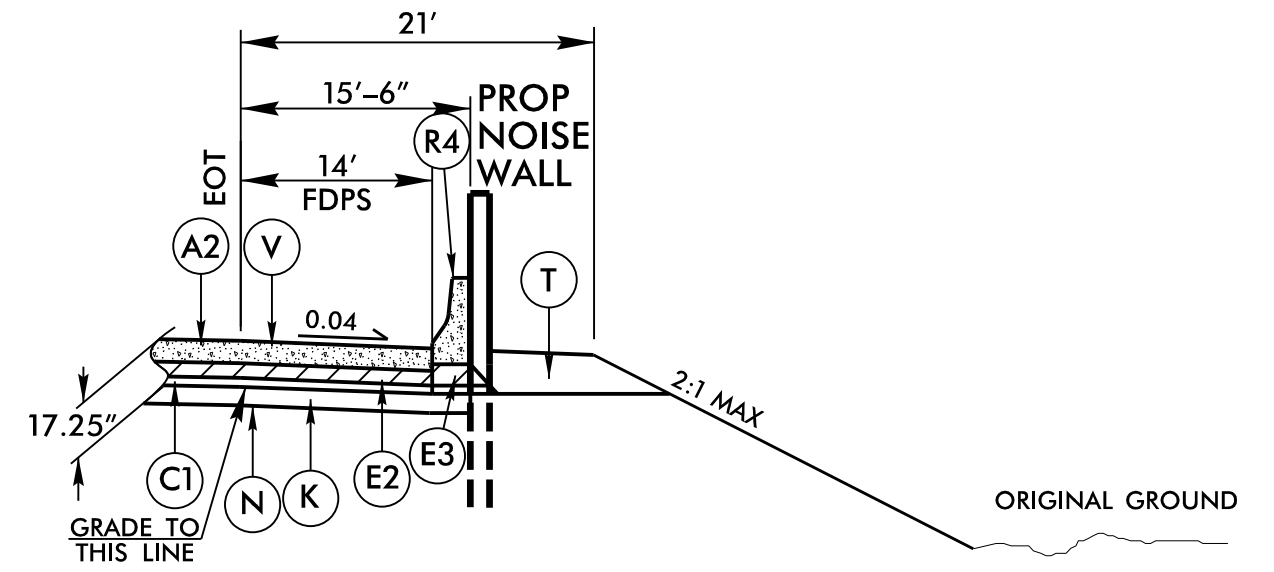


W2: Wedging Detail for Rersurfacing



USE NOISE WALL DETAIL 1

- L- STA. 731+92.70 TO 757+29.63 RT
 - Y4RPC- STA. 15+48.66 TO 21+61.02 LT
 - Y15FLYAC- STA. 16+36.24 TO 32+00.00 RT
 - Y15FLYBD- STA. 76+01.05 TO 91+41.42 RT
 - Y15RPA- STA. 10+00.00 TO 19+40.00 RT
- * USE C7 FOR -L-
USE E2 FOR -L- & -Y4RPC-
ELIMINATE K FOR -Y4RPC-



USE NOISE WALL DETAIL 2

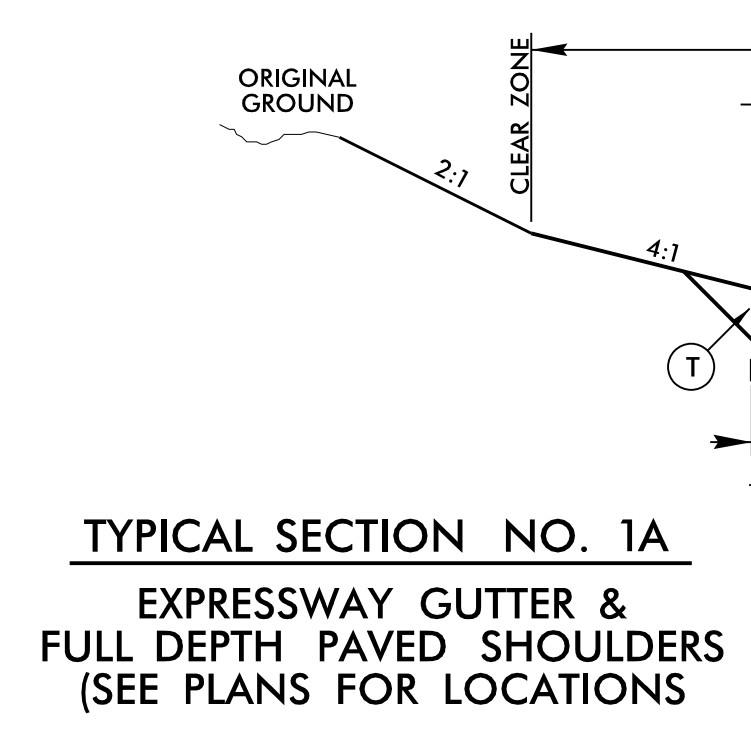
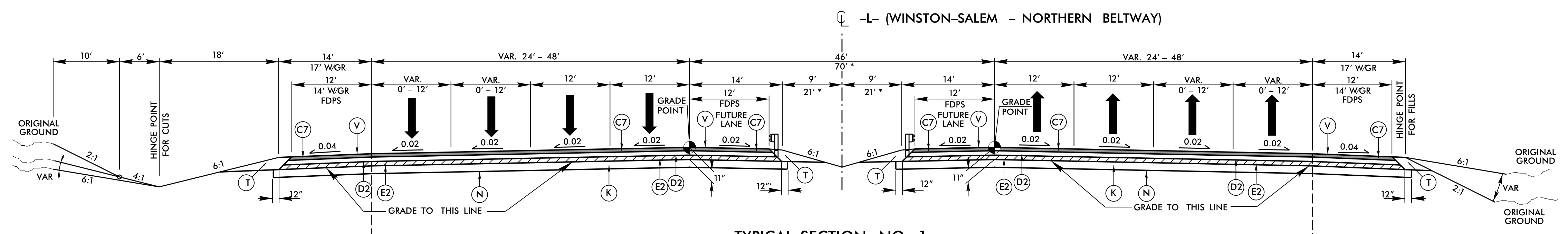
- Y15- STA. 17+63.82 TO 56+00.00 LT
- Y15- STA. 145+00.00 TO 154+82.81 LT
- Y15- STA. 145+00.00 TO 160+85.47 RT
- Y15REV- STA. 8+00.00 TO 20+00.00 LT
- Y15REV- STA. 90+19.61 TO 96+28.30 RT
- Y15FLYAC- STA. 10+00.00 TO 16+36.24 RT
- Y15FLYBD- STA. 91+41.42 TO 97+19.92 RT
- Y15RPB- STA. 38+17.79 TO 41+32.99 RT
- UXRPC- STA. 10+00.00 TO 11+56.39 RT

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 USER: CHARRIS
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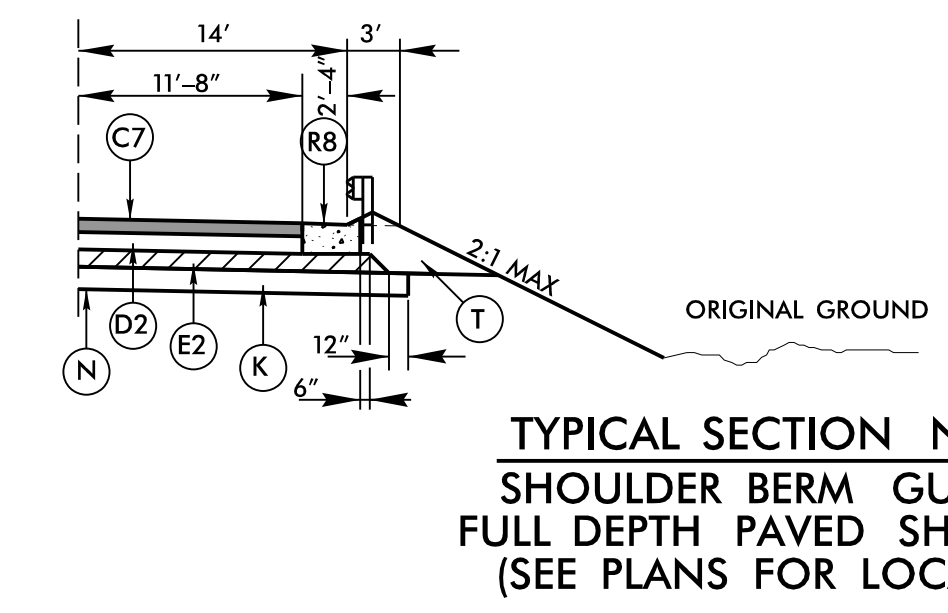
REVISIONS

6/2/2021

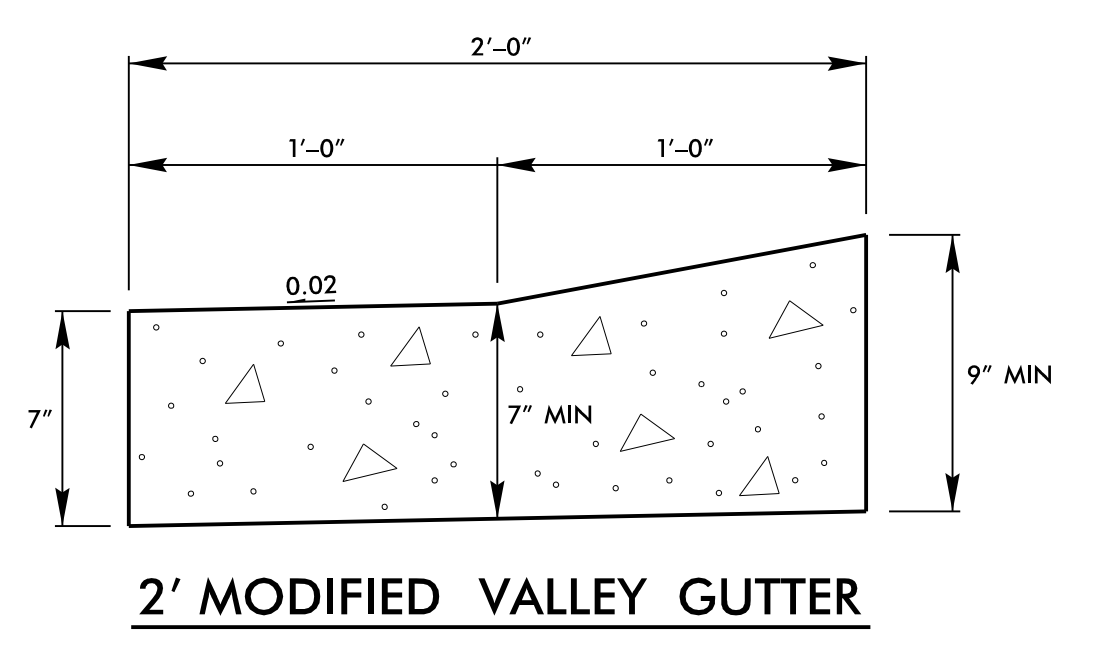
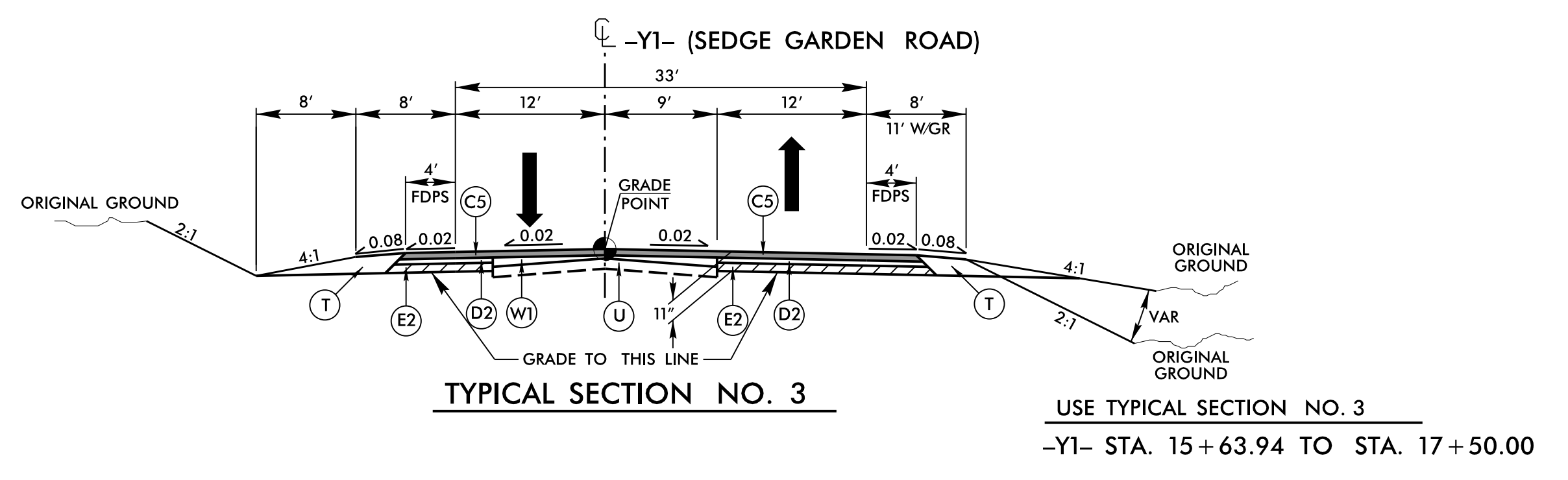
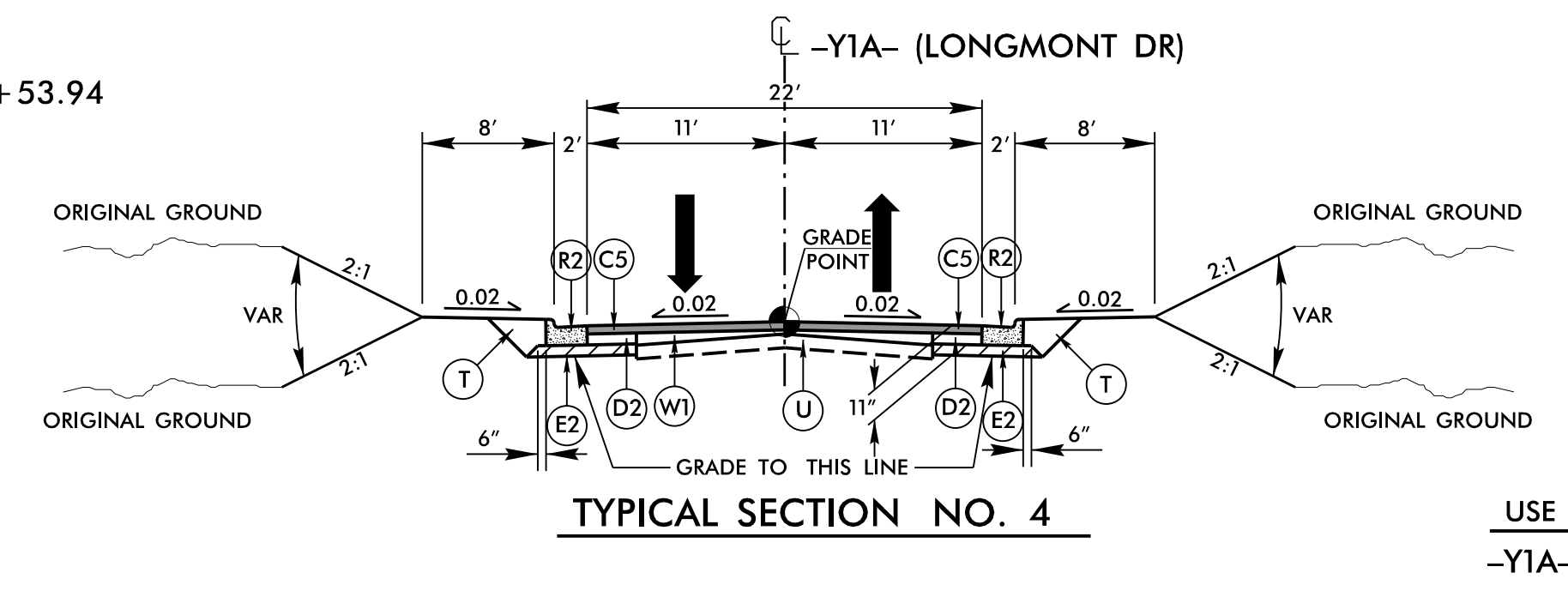
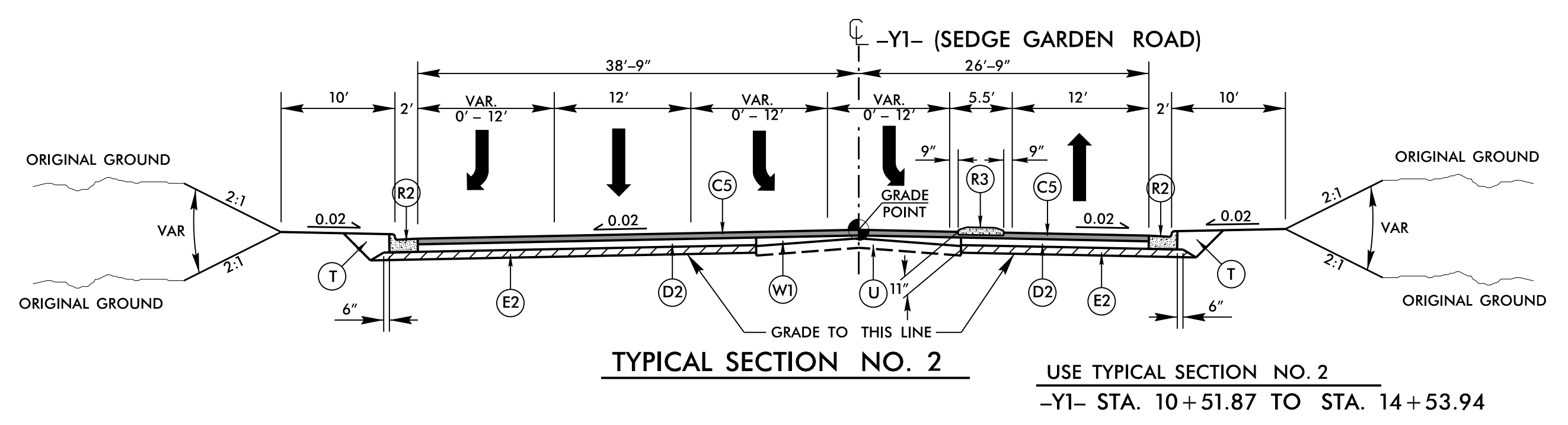
PROJECT REFERENCE NO. U-2579AB	SHEET NO. 2A-2
ROADWAY DESIGN ENGINEER 	PAVEMENT DESIGN ENGINEER
10/13/2021	10/13/2021
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
HDR Engineering, Inc. of the Carolinas 555 Fayetteville St. Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	



NOTE: NON-STANDARD INSIDE SHOULDER ROLLOVER TO ALLOW FOR FUTURE WIDENING.

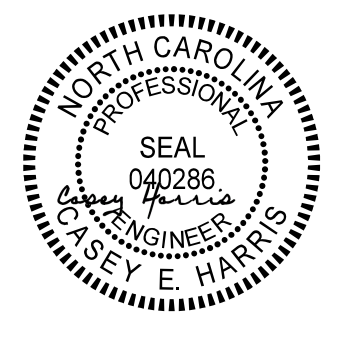




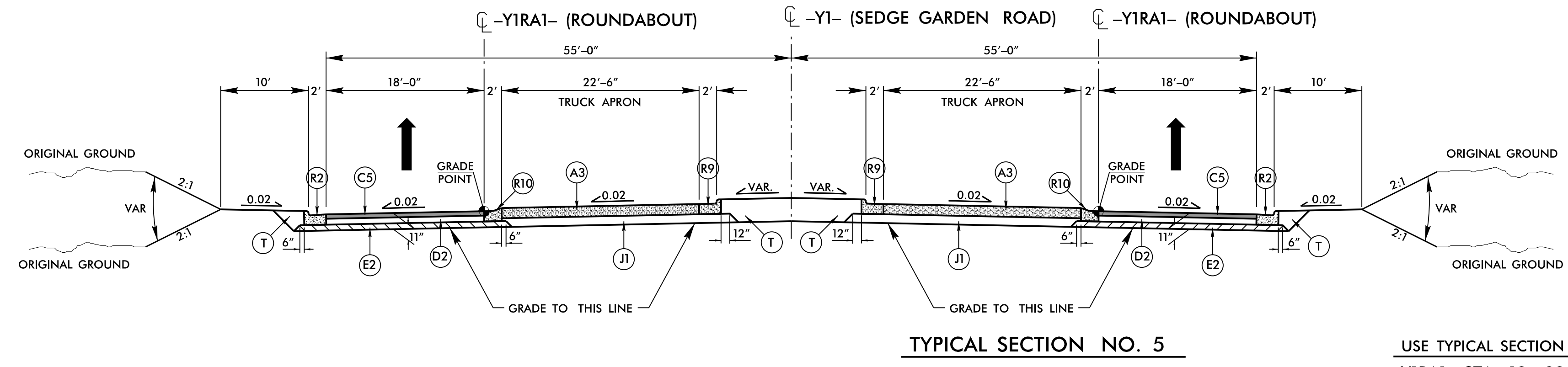
PAVEMENT SCHEDULE	
A1	12" DOW. JOINT. CON
A2	12" JOINT. CONC.
A3	7" CONC. TRUCK APRON
C1	1.25" S9.5B
C2	1.5" S9.5B
C3	2" S9.5B
C4	2.5" S9.5B
C5	3" S9.5B
C6	VAR. S9.5B
C7	3" S9.5C
D1	2.5" I19.0C
D2	4" I19.0C
D3	VAR. I19.0C
E1	3" B25.0C
E2	4" B25.0C
E4	9" B25.0C
E5	VAR. B25.0C
J1	8" ABC
J2	10" ABC
K	SUBGRADE STAB.
N	GEO. FOR SOIL STAB.
P	PRIME COAT
R1	1'-6" CONC. C&G
R2	2'-6" CONC. C&G
R3	5" CONC. ISLAND
R4	CONCRETE BARRIER
R5	DO. FACE CON. BARR.
R6	DDI BARRIER
R7	4" CONC. COVER
R8	SHLD. BERM GUTTER
R9	MOD. 2'-6" CONC. C&G
R10	MOD. VALLEY GUT.
R11	CONC. EXPRWAY. GUT.
S	4" CONCRETE SIDEWALK
T	EARTH MATERIAL
U	EXISTING PAVEMENT
V	RUMBLE STRIPS
W1	WEDGING
Y	INCIDENTAL MILLING
Z	DIAMOND GRINDING



PLOT DRIVER: NCDOT_pdf_color_eng_50.plt
 USER: CHARRIS
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 TIME: 8:53:22 AM
 REVISIONS

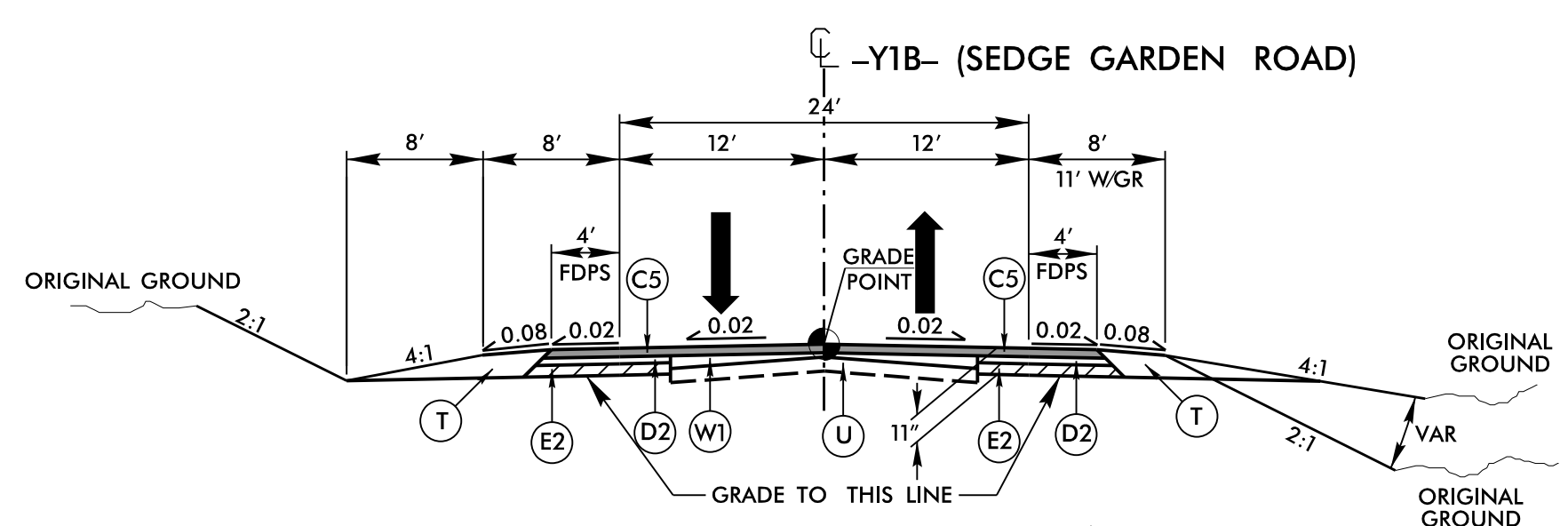
6/2/2021

PROJECT REFERENCE NO. U-2579AB	SHEET NO. 2A-3
ROADWAY DESIGN ENGINEER 	PAVEMENT DESIGN ENGINEER 
10/13/2021	10/13/2021
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
 HDR Engineering, Inc. of the Carolinas 555 Fayetteville St. Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	



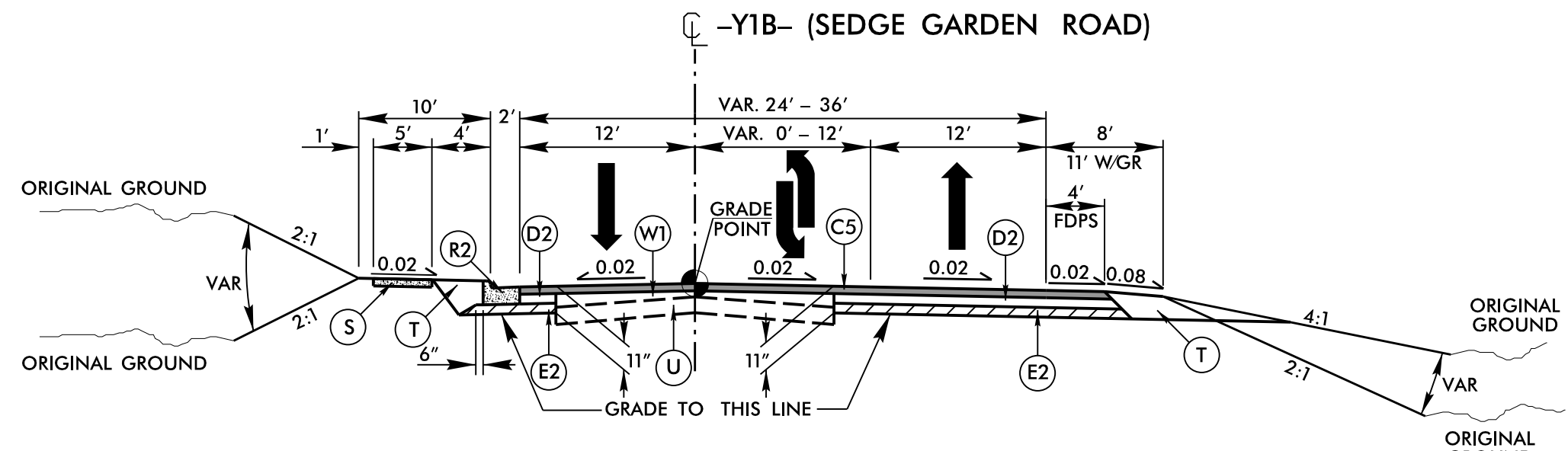
TYPICAL SECTION NO. 5

USE TYPICAL SECTION NO. 5
-Y1RA1- STA. 10+00.00 TO STA. 12+32.48



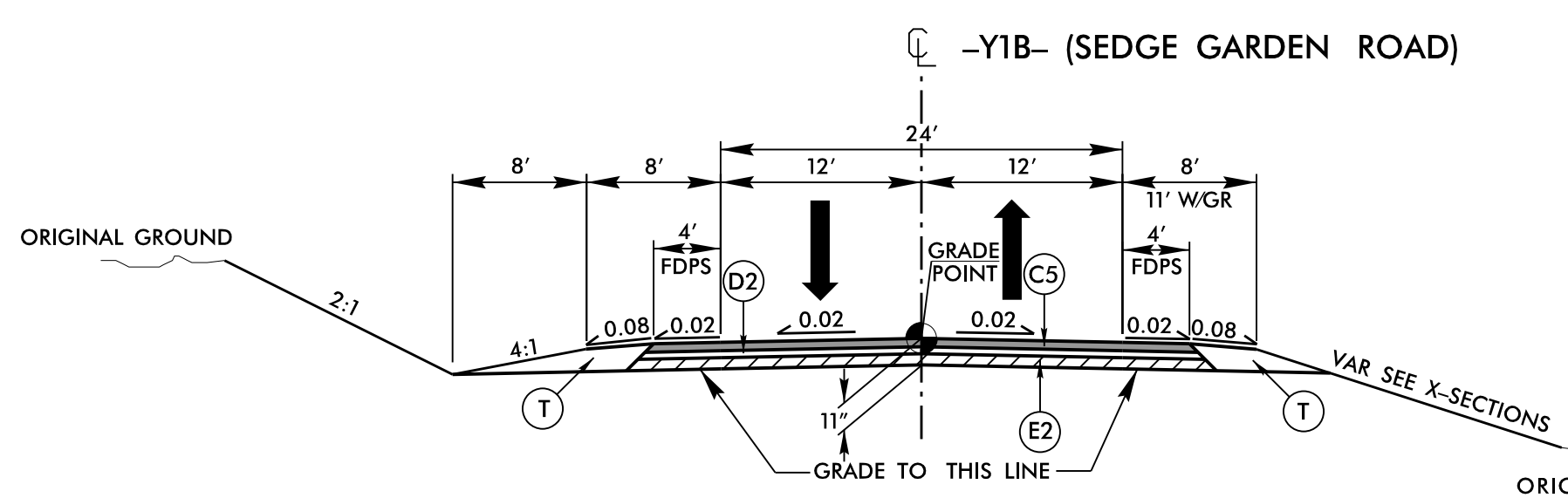
TYPICAL SECTION NO. 6

USE TYPICAL SECTION NO. 6
-Y1B- STA. 12+50.00 TO STA. 17+50.00



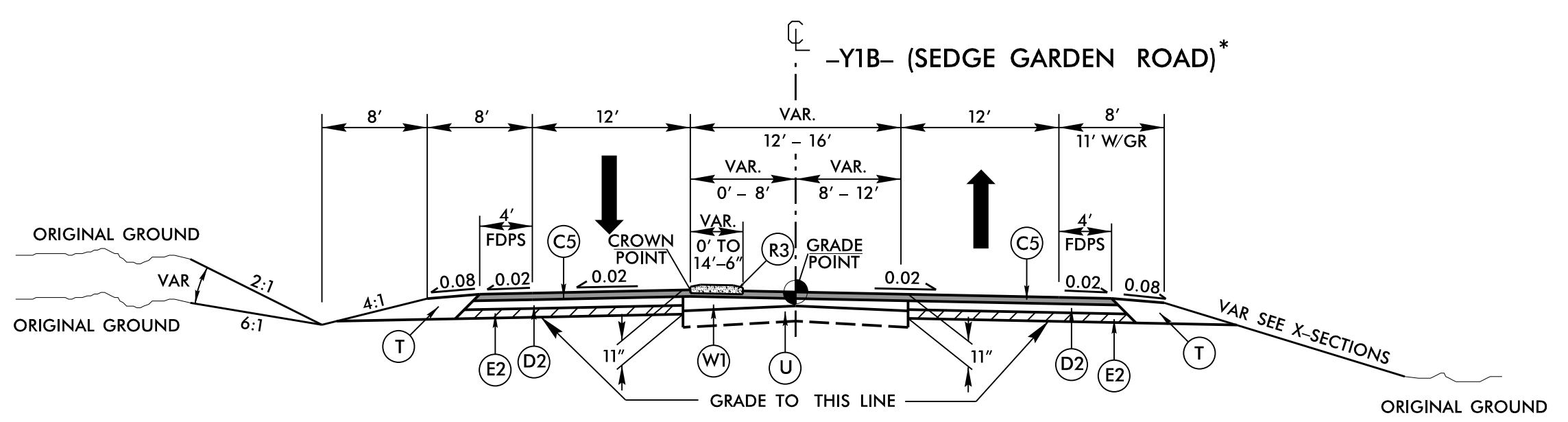
TYPICAL SECTION NO. 7

USE TYPICAL SECTION NO. 7
-Y1B- STA. 24+06.18(END BRIDGE) TO STA. 35+50.00



TYPICAL SECTION NO. 8

USE TYPICAL SECTION NO. 8
-Y1B- STA. 17+50.00 TO STA. 20+50.39(BEGIN BRIDGE)



TYPICAL SECTION NO. 9

USE TYPICAL SECTION NO. 9
-Y1B- STA. 35+50.00 TO STA. 41+31.58

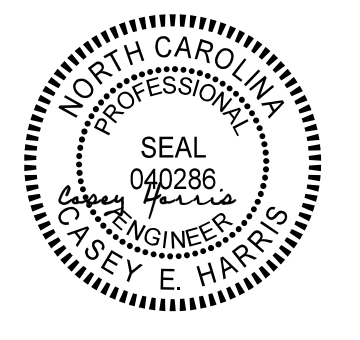
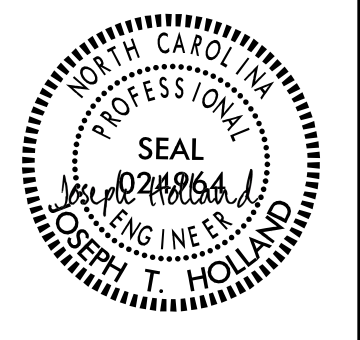

*CONSTRUCT FULL DEPTH PAVEMENT
-Y1B- STA. 40+00.00 TO STA. 41+31.58

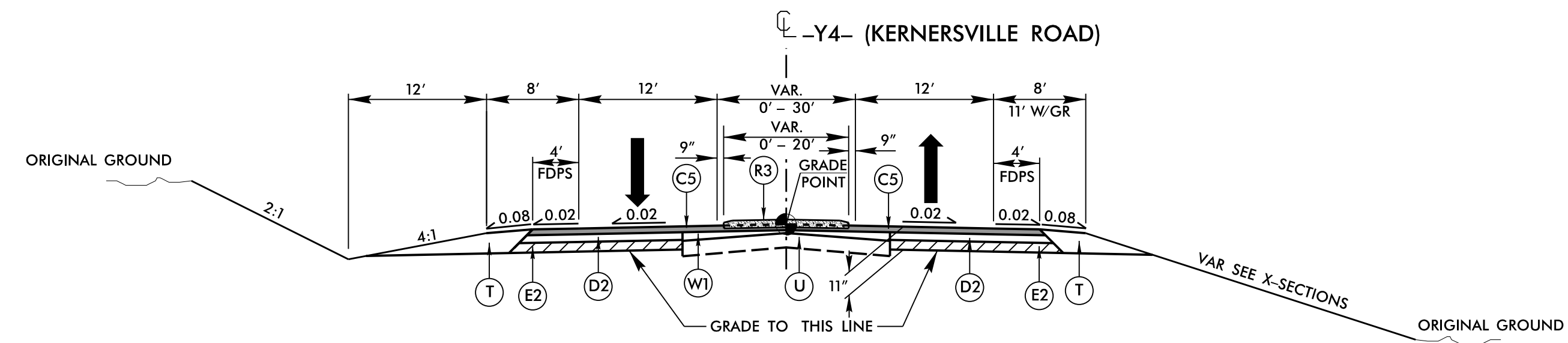
PAVEMENT SCHEDULE	
A1	12" DOW. JOINT. CON
A2	12" JOINT. CONC.
A3	7" CONC. TRUCK APRON
C1	1.25" S9.5B
C2	1.5" S9.5B
C3	2" S9.5B
C4	2.5" S9.5B
C5	3" S9.5B
C6	VAR. S9.5B
C7	3" S9.5C
D1	2.5" I19.0C
D2	4" I19.0C
D3	VAR. I19.0C
E1	3" B25.0C
E2	4" B25.0C
E4	9" B25.0C
E5	VAR. B25.0C
J1	8" ABC
J2	10" ABC
K	SUBGRADE STAB.
N	GEO. FOR SOIL STAB.
P	PRIME COAT
R1	1'-6" CONC. C&G
R2	2'-6" CONC. C&G
R3	5" CONC. ISLAND
R4	CONCRETE BARRIER
R5	DO. FACE CON. BARR.
R6	DDI BARRIER
R7	4" CONC. COVER
R8	SHLD. BERM GUTTER
R9	MOD. 2'-6" CONC. C&G
R10	MOD. VALLEY GUT.
R11	CONC. EXPRWAY. GUT.
S	4" CONCRETE SIDEWALK
T	EARTH MATERIAL
U	EXISTING PAVEMENT
V	RUMBLE STRIPS
W1	WEDGING
Y	INCIDENTAL MILLING
Z	DIAMOND GRINDING

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REVISIONS

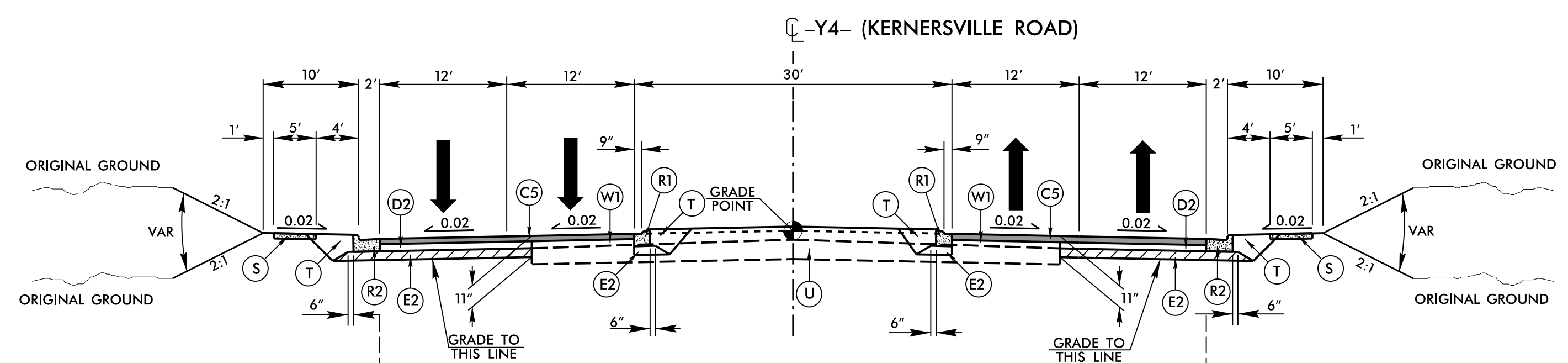
6/2/2021

PROJECT REFERENCE NO. U-2579AB	SHEET NO. 2A-4
ROADWAY DESIGN ENGINEER 	PAVEMENT DESIGN ENGINEER 
10/13/2021	10/13/2021
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
 HDR Engineering, Inc. of the Carolinas 555 Fayetteville St. Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	



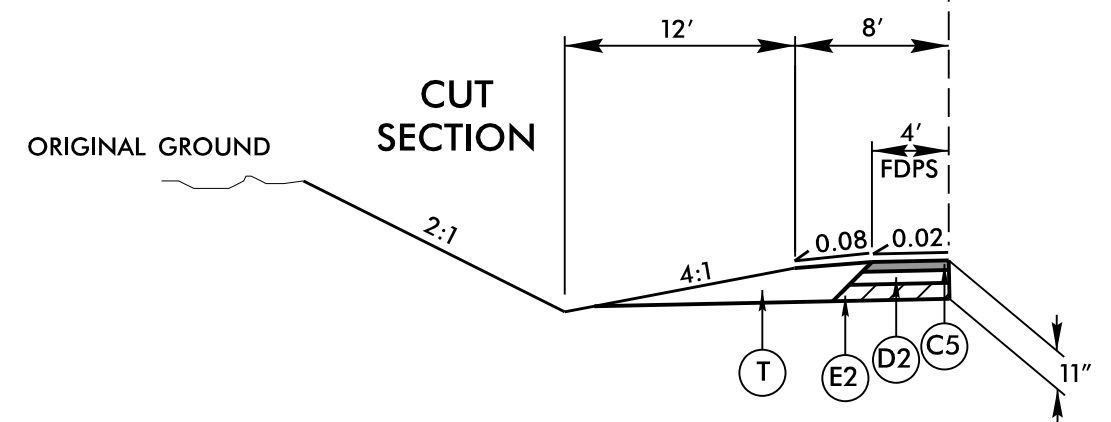
TYPICAL SECTION NO. 10

USE TYPICAL SECTION NO. 10
 -Y4- STA. 11+50.00 TO STA. 19+16.00
 -Y4- STA. 50+00.00 TO STA. 60+00.00



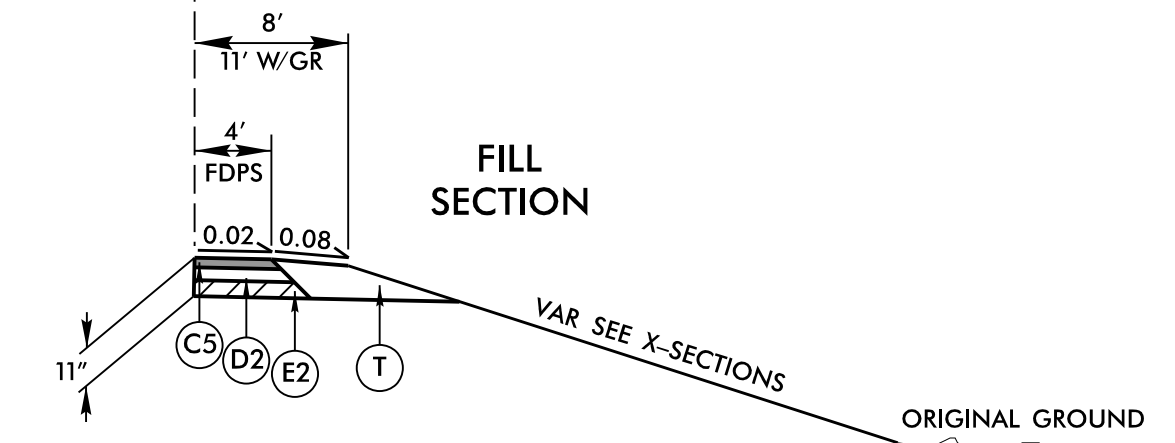
TYPICAL SECTION NO. 11

USE TYPICAL SECTION NO. 11
 -Y4- STA. 19+16.00 TO STA. 23+25.00
 -Y4- STA. 42+50.00 TO STA. 50+00.00



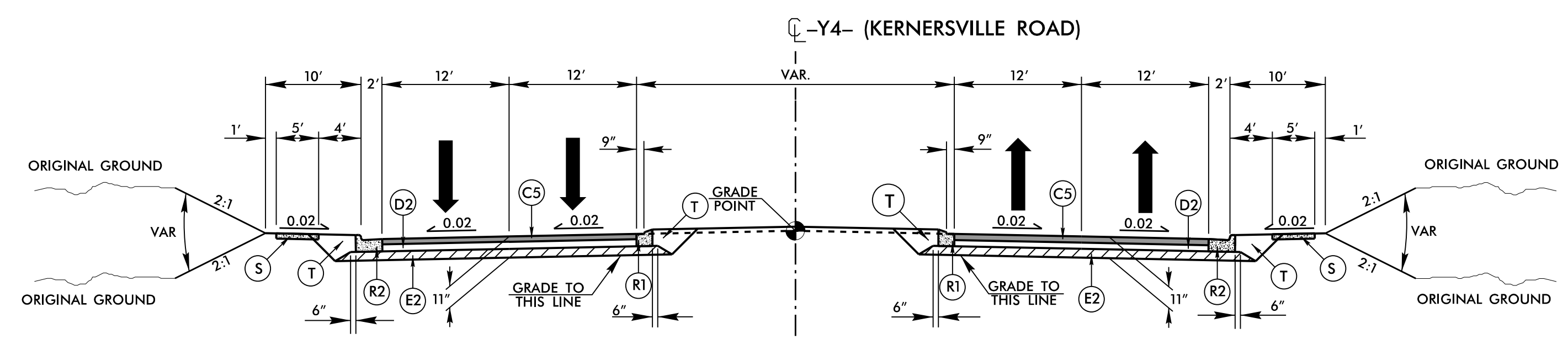
TYPICAL SECTION NO. 11A

USE TYPICAL SECTION NO. 11A IN CONJUNCTION WITH TYPICAL NO. 11
 -Y4- STA. 45+65.98 TO STA. 50+00.00



TYPICAL SECTION NO. 11B

USE TYPICAL SECTION NO. 11B IN CONJUNCTION WITH TYPICAL NO. 11
 -Y4- STA. 45+65.98 TO STA. 50+00.00



TYPICAL SECTION NO. 12

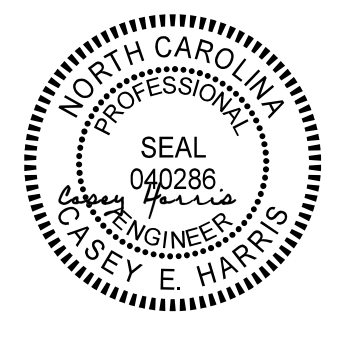
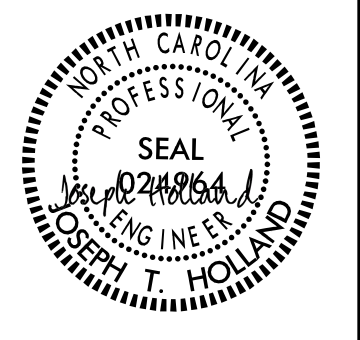

USE TYPICAL SECTION NO. 12
 -Y4- STA. 23+25.00 TO STA. 26+93.01
 -Y4- STA. 34+29.06 TO STA. 42+50.00

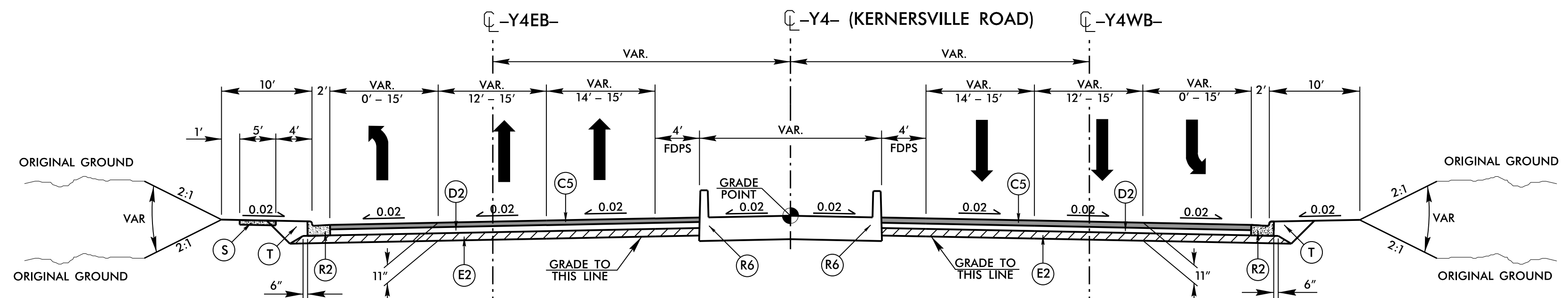
PAVEMENT SCHEDULE	
A1	12" DOW. JOINT. CON.
A2	12" JOINT. CONC.
A3	7" CONC. TRUCK APRON
C1	1.25" S9.5B
C2	1.5" S9.5B
C3	2" S9.5B
C4	2.5" S9.5B
C5	3" S9.5B
C6	VAR. S9.5B
C7	3" S9.5C
D1	2.5" I19.0C
D2	4" I19.0C
D3	VAR. I19.0C
E1	3" B25.0C
E2	4" B25.0C
E4	9" B25.0C
E5	VAR. B25.0C
J1	8" ABC
J2	10" ABC
K	SUBGRADE STAB.
N	GEO. FOR SOIL STAB.
P	PRIME COAT
R1	1'-6" CONC. C&G
R2	2'-6" CONC. C&G
R3	5" CONC. ISLAND
R4	CONCRETE BARRIER
R5	DO. FACE CON. BARR.
R6	DDI BARRIER
R7	4" CONC. COVER
R8	SHLD. BERM GUTTER
R9	MOD. 2'-6" CONC. C&G
R10	MOD. VALLEY GUT.
R11	CONC. EXPRWAY. GUT.
S	4" CONCRETE SIDEWALK
T	EARTH MATERIAL
U	EXISTING PAVEMENT
V	RUMBLE STRIPS
W1	WEDGING
Y	INCIDENTAL MILLING
Z	DIAMOND GRINDING

PLOT DRIVER: NCDOT_color_eng_50.plt
 USER: CHARRIS
 DATE: 10/12/2021
 TIME: 8:53:24 AM
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REVISIONS

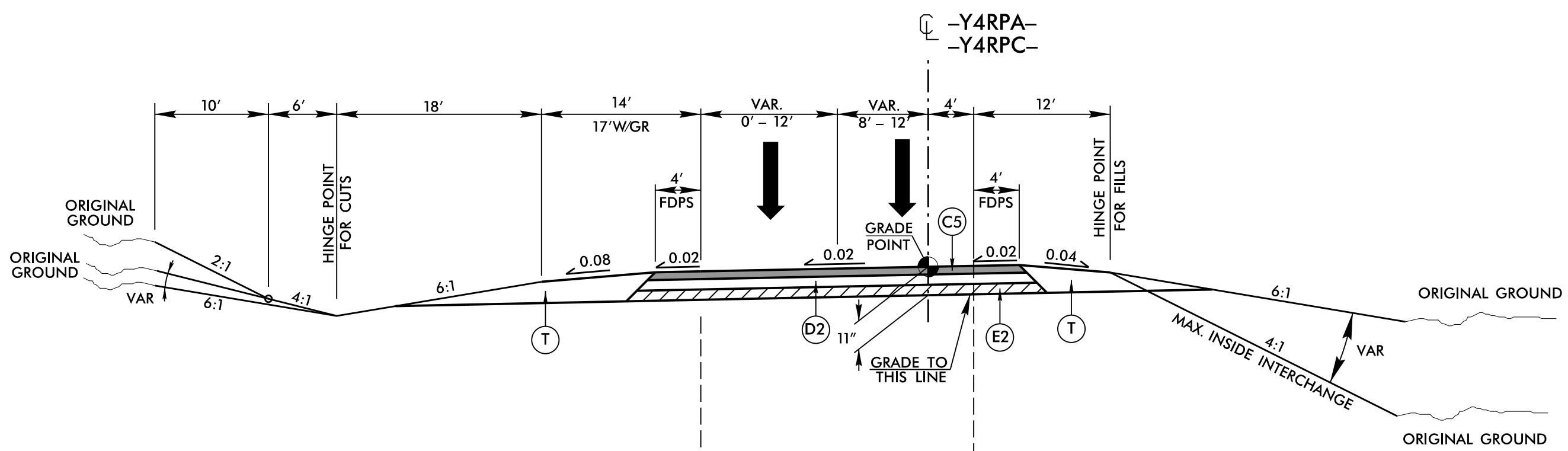
6/2/2021

PROJECT REFERENCE NO. U-2579AB	SHEET NO. 2A-5
ROADWAY DESIGN ENGINEER 	PAVEMENT DESIGN ENGINEER 
10/13/2021	10/13/2021
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
 HDR Engineering, Inc. of the Carolinas 555 Fayetteville St. Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	



TYPICAL SECTION NO. 13

USE TYPICAL SECTION NO. 13
 -Y4- STA. 26+93.01 TO STA. 29+85.66(BEGIN BRIDGE)
 -Y4- STA. 31+49.66(END BRIDGE) TO STA. 34+29.06
 NOTE: SEE SHEET 2C-8 FOR DDI BARRIER DETAIL.



TYPICAL SECTION NO. 14

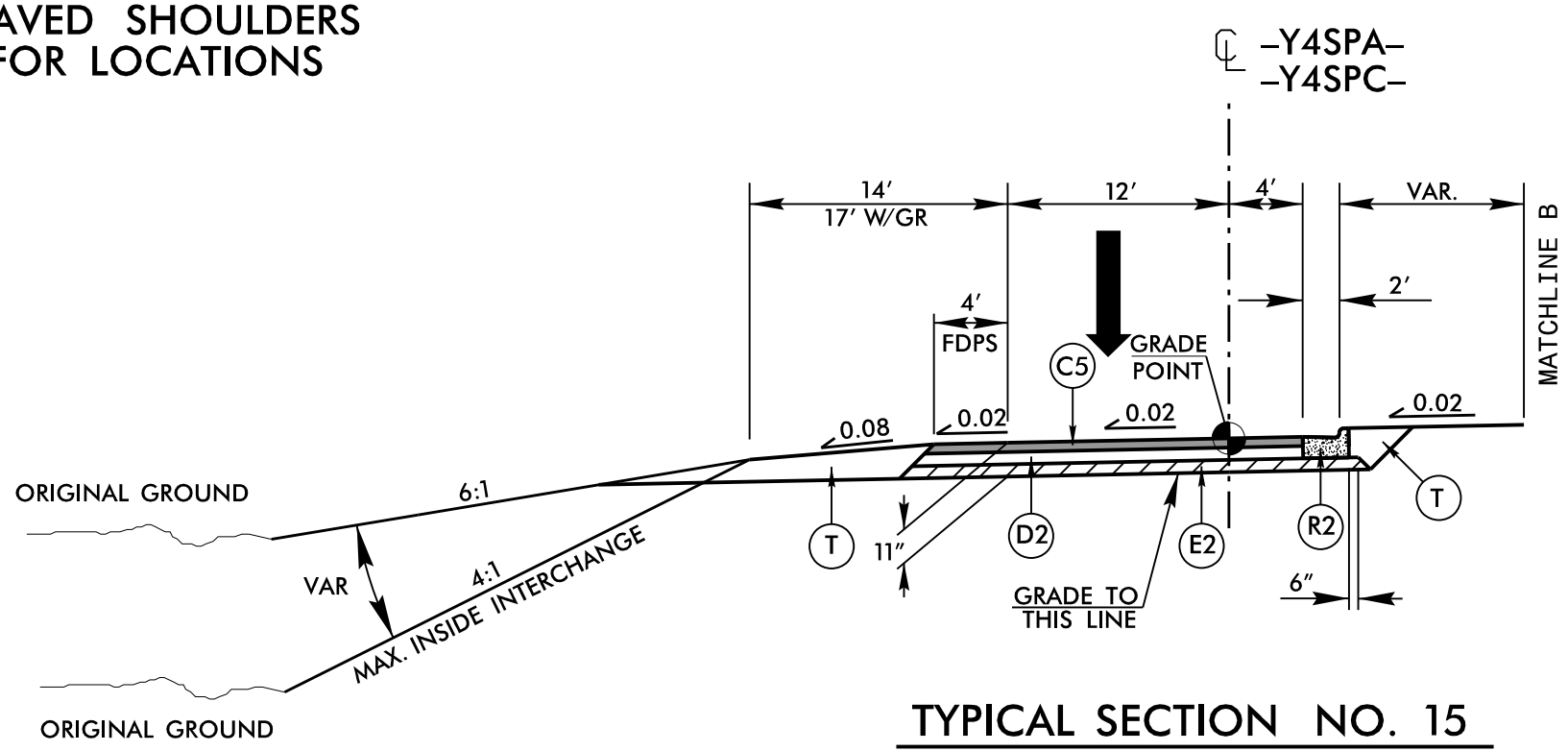
USE TYPICAL SECTION NO. 14
 -Y4RPA- STA. 15+49.40 TO STA. 25+38.99
 -Y4RPC- STA. 15+48.66 TO STA. 24+68.50

TYPICAL SECTION NO. 14A

USE TYPICAL SECTION NO. 14A
 IN CONJUNCTION WITH TYPICAL
 NO. 14
 -Y4RPA- STA. 22+90.80 TO STA. 24+49.77
 -Y4RPC- STA. 22+26.52 TO STA. 23+73.08

TYPICAL SECTION NO. 14B

SHOULDER BERM GUTTER &
 FULL DEPTH PAVED SHOULDERS
 (SEE PLANS FOR LOCATIONS)



TYPICAL SECTION NO. 15

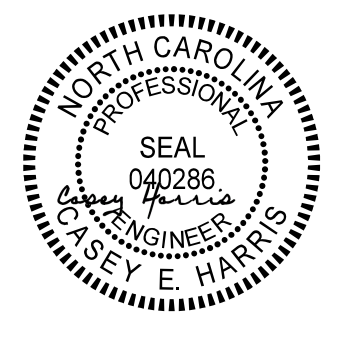


USE TYPICAL SECTION NO. 15
 -Y4SPA- STA. 22+21.97 TO STA. 25+41.78
 -Y4SPC- STA. 21+69.21 TO STA. 24+77.56

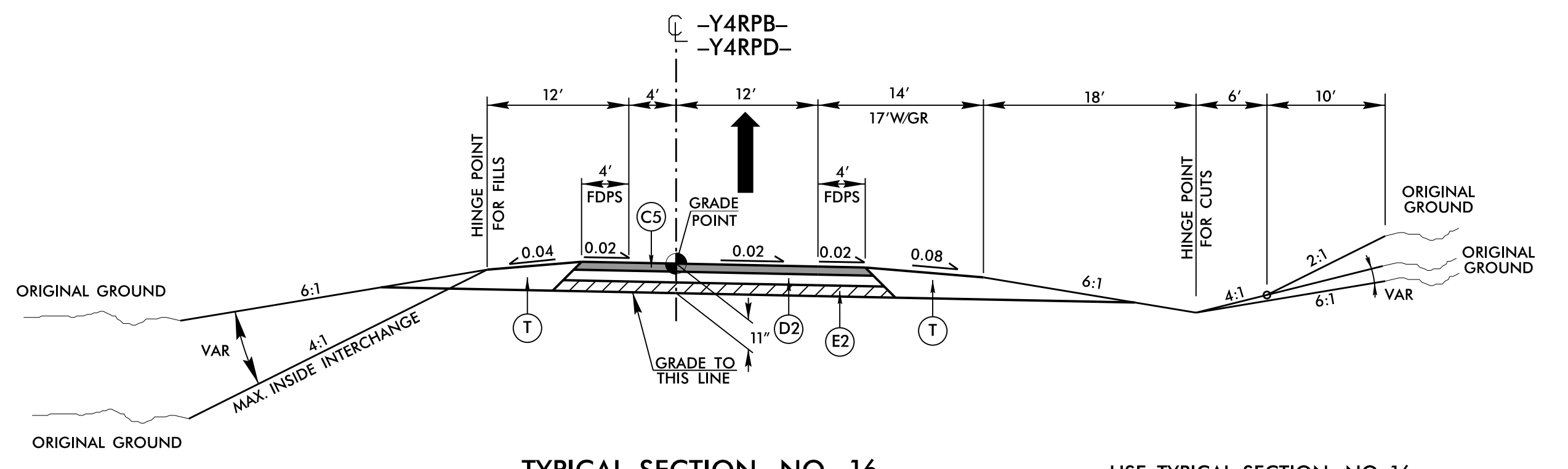
PAVEMENT SCHEDULE	
A1	12" DOW. JOINT. CON.
A2	12" JOINT. CONC.
A3	7" CONC. TRUCK APRON
C1	1.25" S9.5B
C2	1.5" S9.5B
C3	2" S9.5B
C4	2.5" S9.5B
C5	3" S9.5B
C6	VAR. S9.5B
C7	3" S9.5C
D1	2.5" I19.0C
D2	4" I19.0C
D3	VAR. I19.0C
E1	3" B25.0C
E2	4" B25.0C
E4	9" B25.0C
E5	VAR. B25.0C
J1	8" ABC
J2	10" ABC
K	SUBGRADE STAB.
N	GEO. FOR SOIL STAB.
P	PRIME COAT
R1	1'-6" CONC. C&G
R2	2'-6" CONC. C&G
R3	5" CONC. ISLAND
R4	CONCRETE BARRIER
R5	DO. FACE CON. BARR.
R6	DDI BARRIER
R7	4" CONC. COVER
R8	SHLD. BERM GUTTER
R9	MOD. 2'-6" CONC. C&G
R10	MOD. VALLEY GUT.
R11	CONC. EXPRWAY. GUT.
S	4" CONCRETE SIDEWALK
T	EARTH MATERIAL
U	EXISTING PAVEMENT
V	RUMBLE STRIPS
W	WEDGING
Y	INCIDENTAL MILLING
Z	DIAMOND GRINDING

PLOT DRIVER: NCDOT_pdf_color_eng_50.plt
 USER: CHARRIS
 DATE: 10/12/2021
 TIME: 9:32:02 AM
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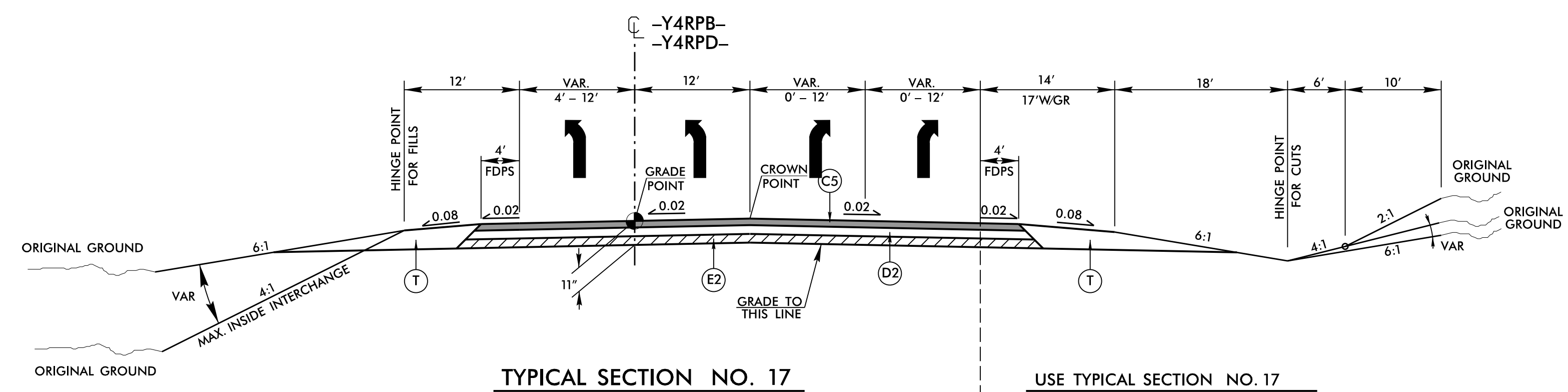
REVISIONS

6/2/2019

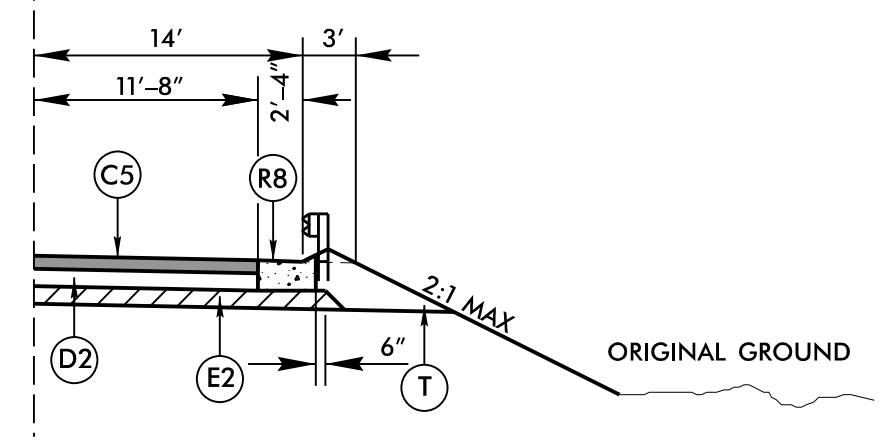
PROJECT REFERENCE NO. U-2579AB	SHEET NO. 2A-6
ROADWAY DESIGN ENGINEER 	PAVEMENT DESIGN ENGINEER 
10/13/2021	10/13/2021
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
 HDR Engineering, Inc. of the Carolinas 555 Fayetteville St. Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	



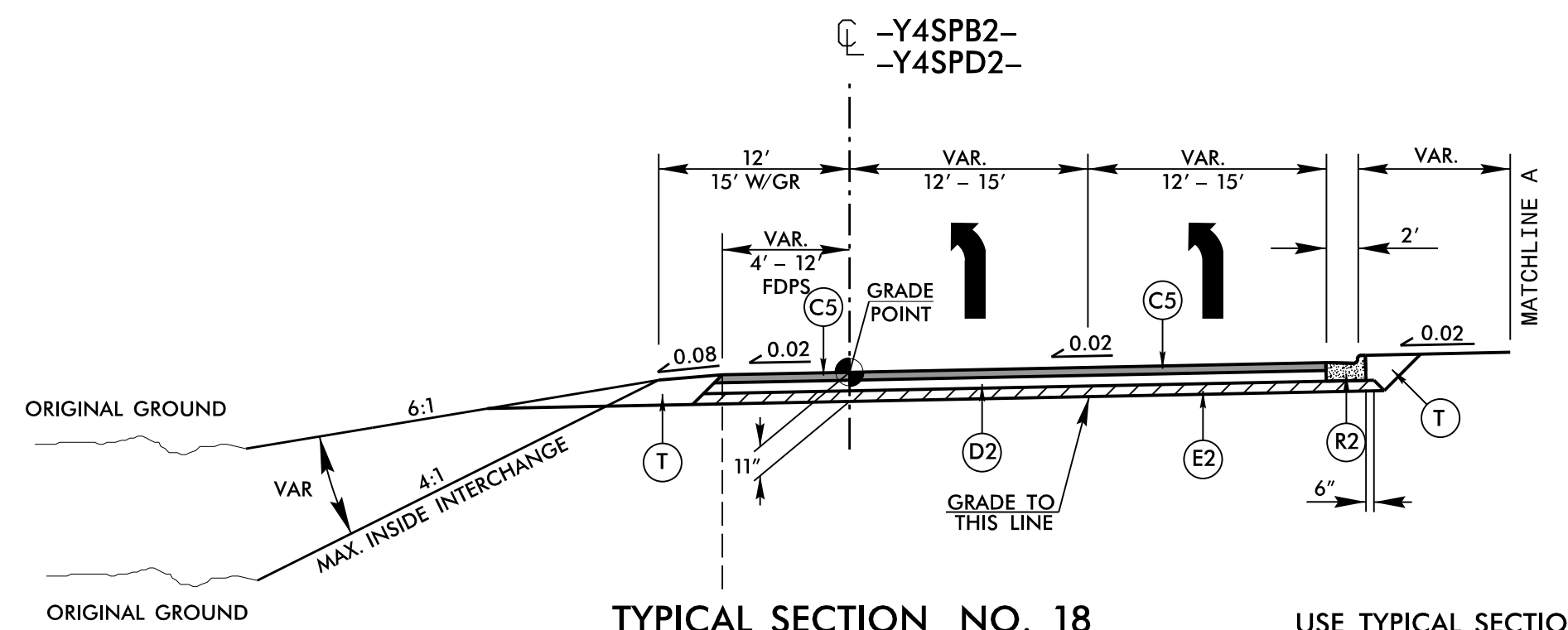
USE TYPICAL SECTION NO. 16
 -Y4RPB- STA. 15+68.14 TO STA. 17+00.00
 -Y4RPD- STA. 15+08.06 TO STA. 18+00.00



USE TYPICAL SECTION NO. 17
 -Y4RPB- STA. 17+00.00 TO STA. 22+78.69
 -Y4RPD- STA. 18+00.00 TO STA. 22+35.14

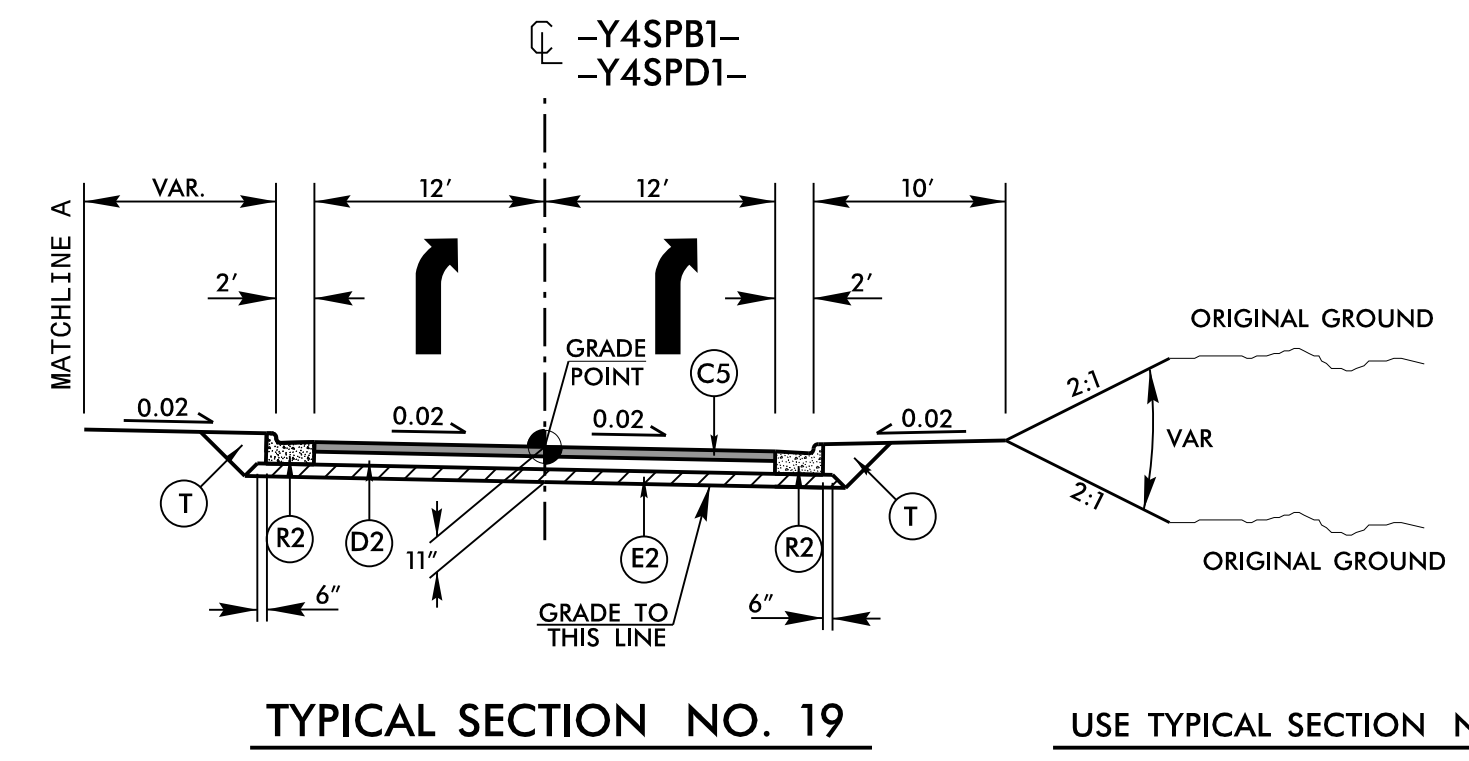


TYPICAL SECTION NO. 17A
 SHOULDER BERM GUTTER &
 FULL DEPTH PAVED SHOULDERS
 (SEE PLANS FOR LOCATIONS)



USE TYPICAL SECTION NO. 18
 -Y4SPB2- STA. 22+78.69 TO STA. 25+73.07
 -Y4SPD2- STA. 22+35.14 TO STA. 24+66.82

TYPICAL SECTION NO. 18A
 SHOULDER BERM GUTTER &
 FULL DEPTH PAVED SHOULDERS
 (SEE PLANS FOR LOCATIONS)



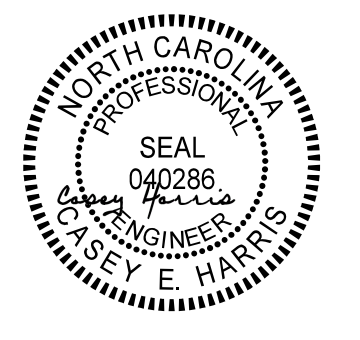


USE TYPICAL SECTION NO. 19
 -Y4SPB1- STA. 22+78.69 TO STA. 26+52.15
 -Y4SPD1- STA. 22+35.14 TO STA. 25+51.28

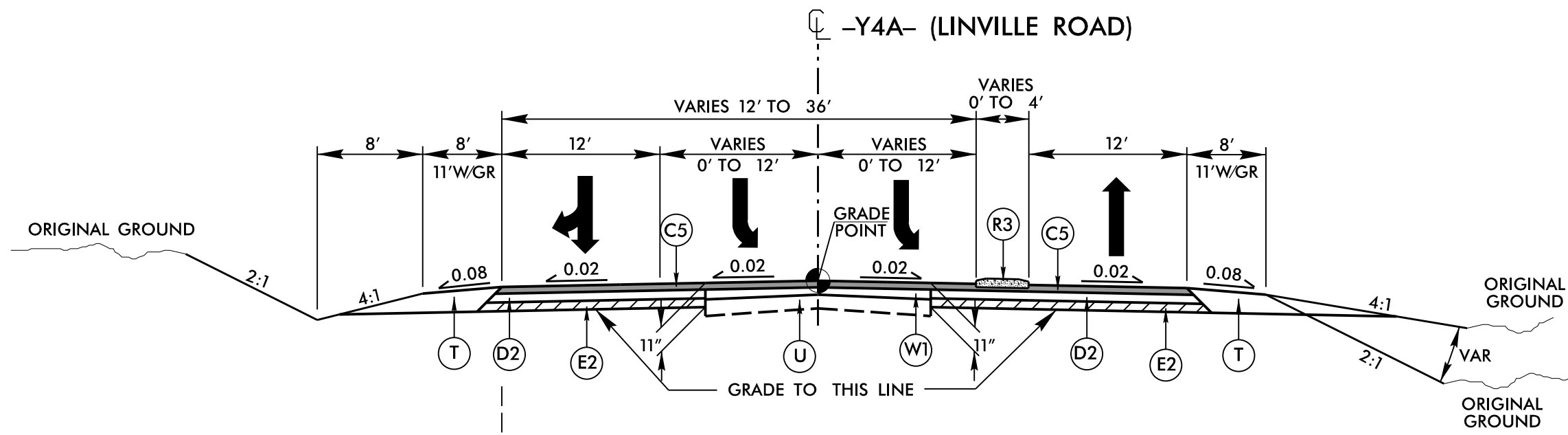
PAVEMENT SCHEDULE	
A1	12" DOW. JOINT. CON
A2	12" JOINT. CONC.
A3	7" CONC. TRUCK APRON
C1	1.25" S9.5B
C2	1.5" S9.5B
C3	2" S9.5B
C4	2.5" S9.5B
C5	3" S9.5B
C6	VAR. S9.5B
C7	3" S9.5C
D1	2.5" I19.0C
D2	4" I19.0C
D3	VAR. I19.0C
E1	3" B25.0C
E2	4" B25.0C
E4	9" B25.0C
E5	VAR. B25.0C
J1	8" ABC
J2	10" ABC
K	SUBGRADE STAB.
N	GEO. FOR SOIL STAB.
P	PRIME COAT
R1	1'-6" CONC. C&G
R2	2'-6" CONC. C&G
R3	5" CONC. ISLAND
R4	CONCRETE BARRIER
R5	DO. FACE CON. BARR.
R6	DDI BARRIER
R7	4" CONC. COVER
R8	SHLD. BERM GUTTER
R9	MOD. 2'-6" CONC. C&G
R10	MOD. VALLEY GUT.
R11	CONC. EXPRWAY. GUT.
S	4" CONCRETE SIDEWALK
T	EARTH MATERIAL
U	EXISTING PAVEMENT
V	RUMBLE STRIPS
W	WEDGING
Y	INCIDENTAL MILLING
Z	DIAMOND GRINDING

PLOT DRIVER: NCDOT_pdf_color_eng_50.plt
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 DATE: 10/12/2021

REVISIONS

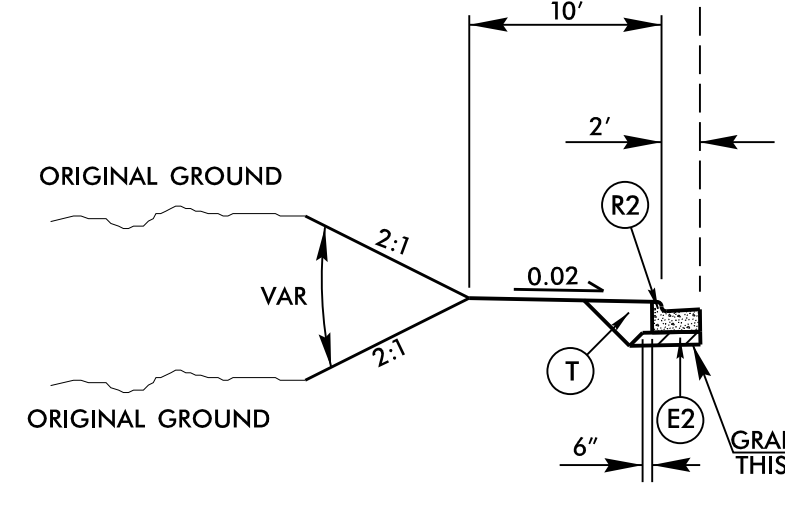
6/2/2021

PROJECT REFERENCE NO. U-2579AB	SHEET NO. 2A-7
ROADWAY DESIGN ENGINEER 	PAVEMENT DESIGN ENGINEER 
10/13/2021	10/13/2021
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
 HDR Engineering, Inc. of the Carolinas 555 Fayetteville St. Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	



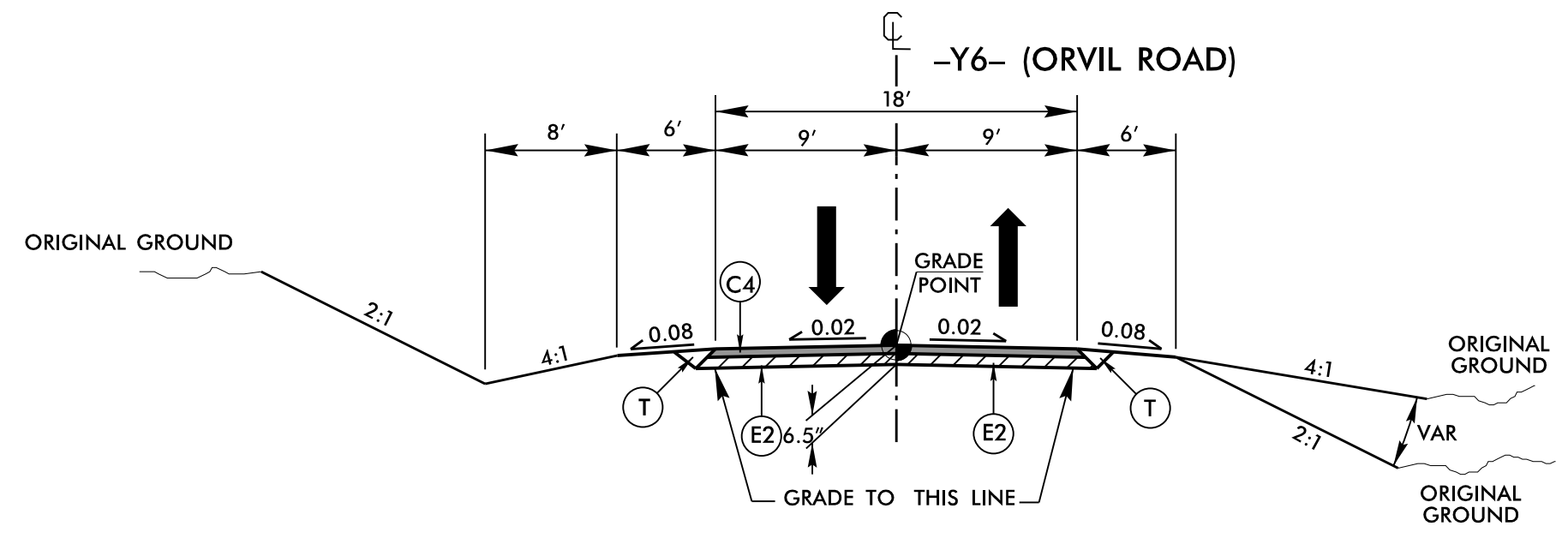
TYPICAL SECTION NO. 20

USE TYPICAL SECTION NO. 20
-Y4A- STA. 10+42.10 TO STA. 18+00.00



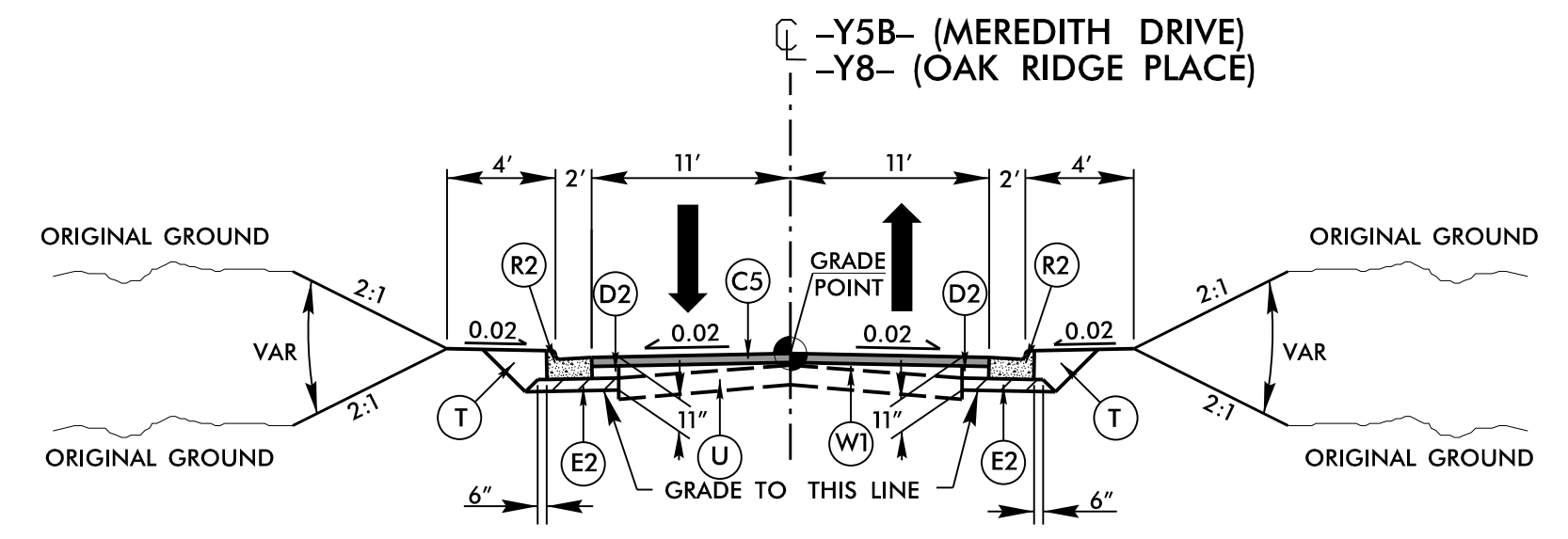
TYPICAL SECTION NO. 20A

USE TYPICAL SECTION NO. 20A
IN CONJUNCTION WITH TYPICAL
NO. 20
-Y4A- STA. 10+42.10 TO STA. 14+58.42 (LT)



TYPICAL SECTION NO. 21

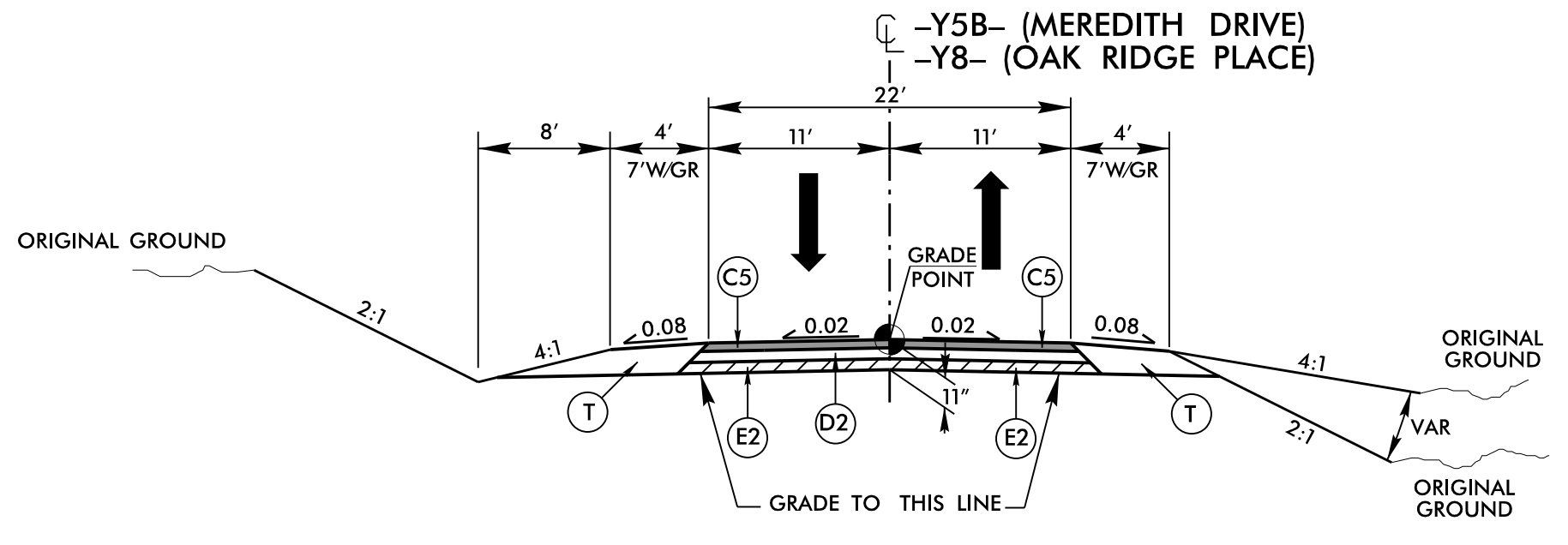
USE TYPICAL SECTION NO. 21
-Y6- STA. 10+10.77 TO STA. 12+50.00



TYPICAL SECTION NO. 22

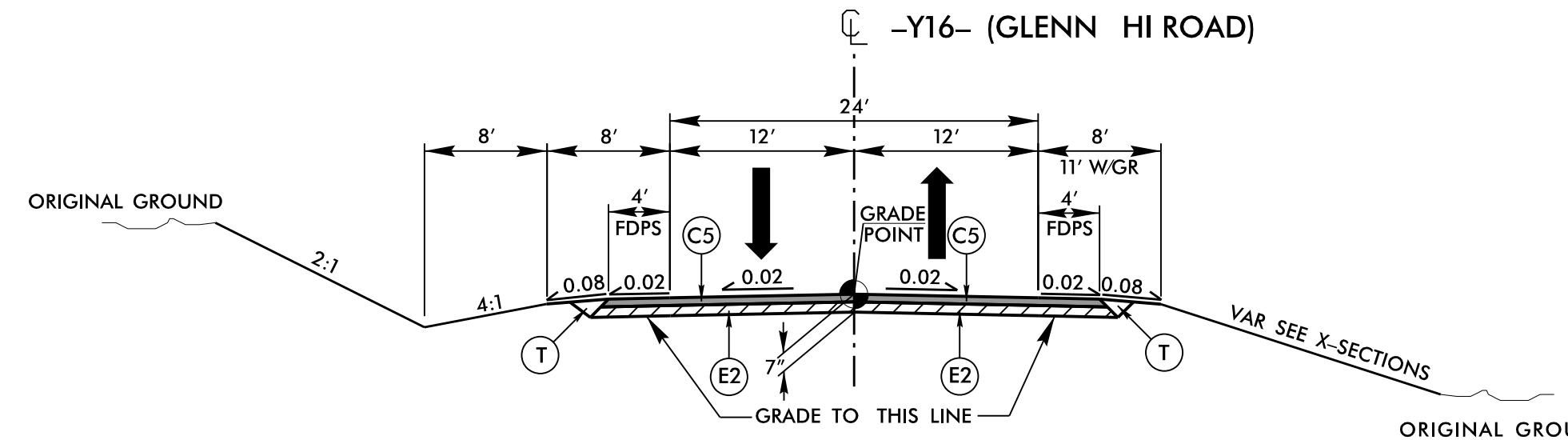
USE TYPICAL SECTION NO. 22
-Y5B- STA. 14+50.00 TO STA. 16+50.00
-Y8- STA. 14+65.00 TO STA. 16+50.00

* USE FULL DEPTH PAVEMENT
-Y8- STA. 14+65.00 TO STA. 15+35.00



TYPICAL SECTION NO. 23

USE TYPICAL SECTION NO. 23
-Y5B- STA. 16+50.00 TO STA. 23+00.00
-Y8- STA. 13+43.63 TO STA. 14+65.00



TYPICAL SECTION NO. 24

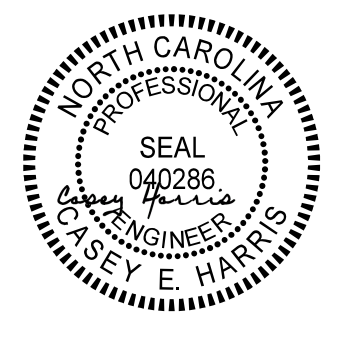
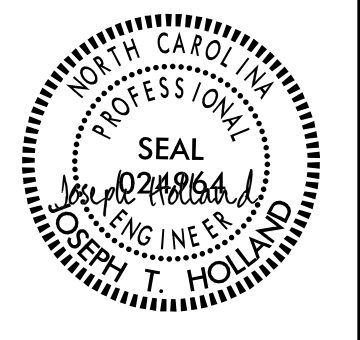

ORIGINAL GROUND
USE TYPICAL SECTION NO. 24
-Y16- STA. 16+00.00 TO STA. 20+73.53(BEGIN BRIDGE)
-Y16- STA. 25+49.53(END BRIDGE) TO STA. 29+50.00

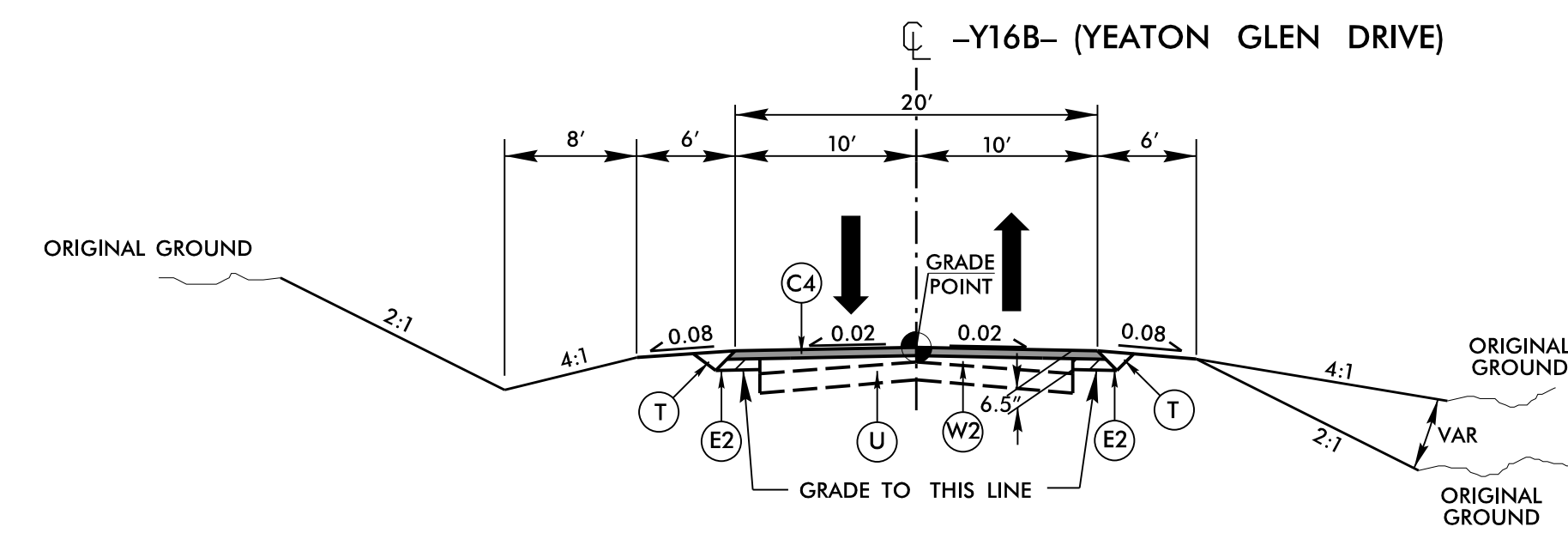
PAVEMENT SCHEDULE	
A1	12" DOW. JOINT. CON
A2	12" JOINT. CONC.
A3	7" CONC. TRUCK APRON
C1	1.25" S9.5B
C2	1.5" S9.5B
C3	2" S9.5B
C4	2.5" S9.5B
C5	3" S9.5B
C6	VAR. S9.5B
C7	3" S9.5C
D1	2.5" I19.0C
D2	4" I19.0C
D3	VAR. I19.0C
E1	3" B25.0C
E2	4" B25.0C
E4	9" B25.0C
E5	VAR. B25.0C
J1	8" ABC
J2	10" ABC
K	SUBGRADE STAB.
N	GEO. FOR SOIL STAB.
P	PRIME COAT
R1	1'-6" CONC. C&G
R2	2'-6" CONC. C&G
R3	5" CONC. ISLAND
R4	CONCRETE BARRIER
R5	DO. FACE CON. BARR.
R6	DDI BARRIER
R7	4" CONC. COVER
R8	SHLD. BERM GUTTER
R9	MOD. 2'-6" CONC. C&G
R10	MOD. VALLEY GUT.
R11	CONC. EXPRWAY. GUT.
S	4" CONCRETE SIDEWALK
T	EARTH MATERIAL
U	EXISTING PAVEMENT
V	RUMBLE STRIPS
W1	WEDGING
Y	INCIDENTAL MILLING
Z	DIAMOND GRINDING

PLOT DRIVER: NCDOT_color_eng_50.plt
 USER: CHARRIS
 DATE: 10/12/2021
 TIME: 9:28:39 AM
 FILE: NCDOT\NCDOT-U2579AB\6.0.CAD.BTM\6.2.Work\In_Progress\U-2579AB\Roadway\Proj\U2579ab_rdy_typ.dgn

REVISIONS

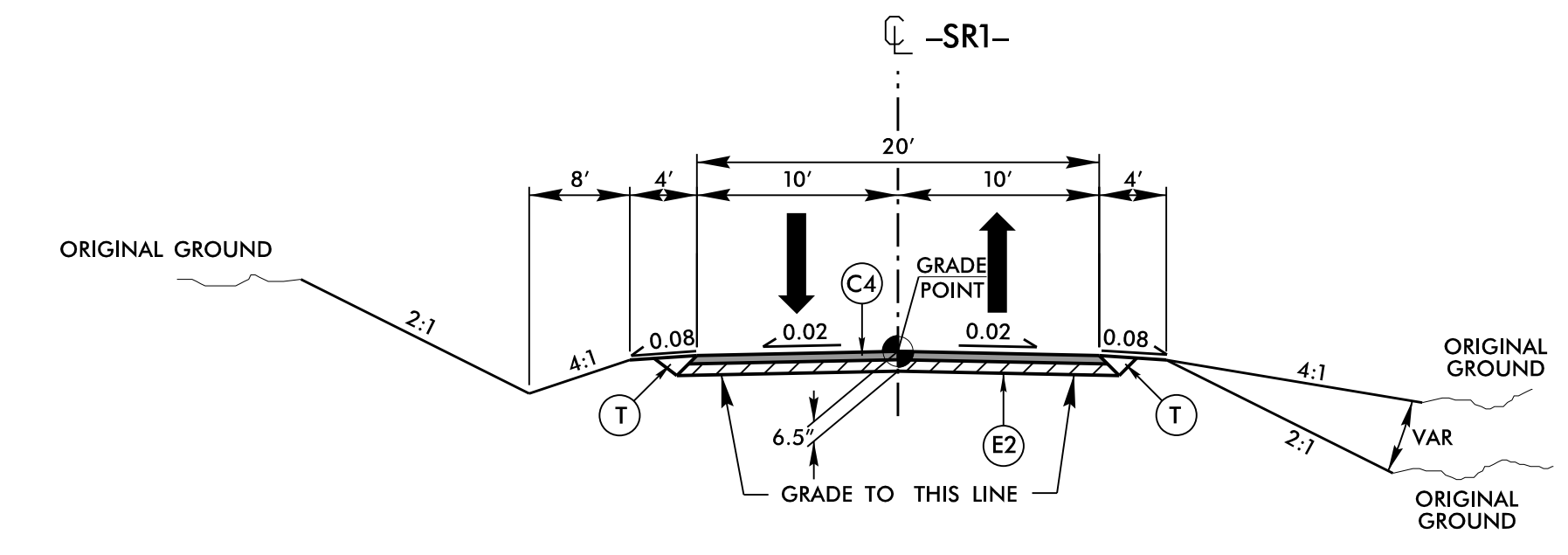
6/2/2021

PROJECT REFERENCE NO. U-2579AB	SHEET NO. 2A-8
ROADWAY DESIGN ENGINEER 	PAVEMENT DESIGN ENGINEER 
10/13/2021	10/13/2021
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
 HDR Engineering, Inc. of the Carolinas 555 Fayetteville St. Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	



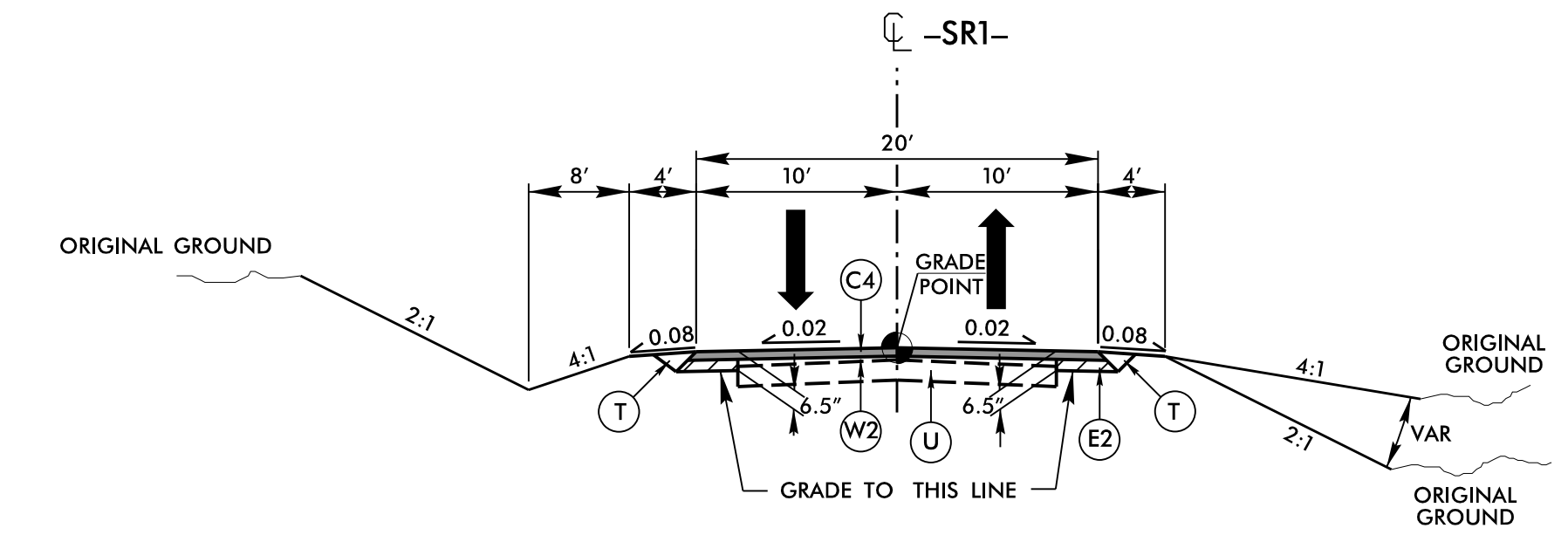
TYPICAL SECTION NO. 25

USE TYPICAL SECTION NO. 25
 -Y16B- STA. 12 + 50.00 TO STA. 14 + 11.94



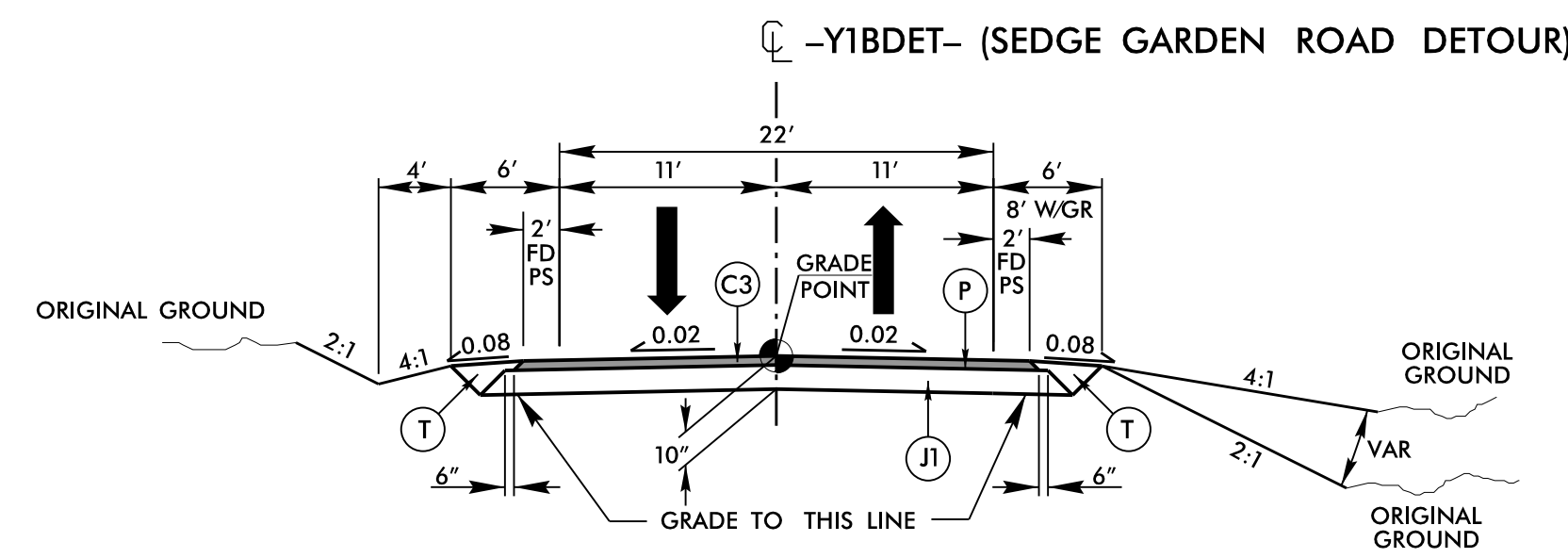
TYPICAL SECTION NO. 26

USE TYPICAL SECTION NO. 26
 -SR1- STA. 10 + 60.00 TO STA. 25 + 40.00



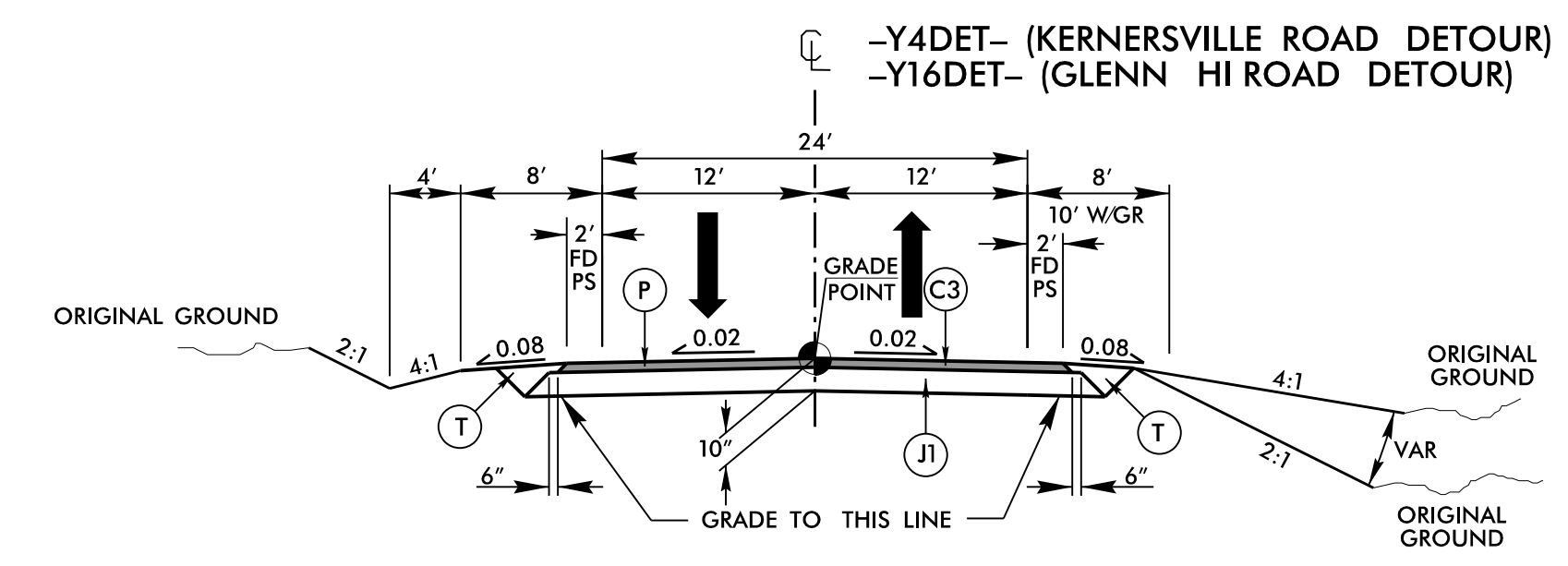
TYPICAL SECTION NO. 27

USE TYPICAL SECTION NO. 27
 -SR1- STA. 25 + 40.00 TO STA. 29 + 00.00



TYPICAL SECTION NO. 28

USE TYPICAL SECTION NO. 28
 -Y1BDET- STA. 14 + 35.97 TO STA. 28 + 39.28



TYPICAL SECTION NO. 29

USE TYPICAL SECTION NO. 29
 -Y4DET- STA. 10 + 36.67 TO STA. 32 + 81.96
 -Y16DET- STA. 14 + 52.63 TO STA. 32 + 41.73


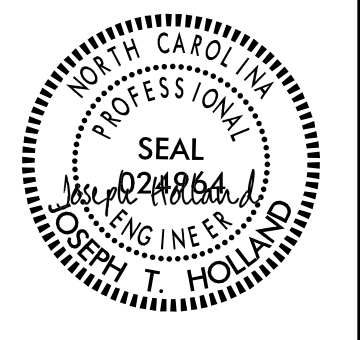

NOTE: USE -Y4DET- PAVEMENT DESIGN FOR CONNECTION TO -Y4- FOR FINAL CONDITION.

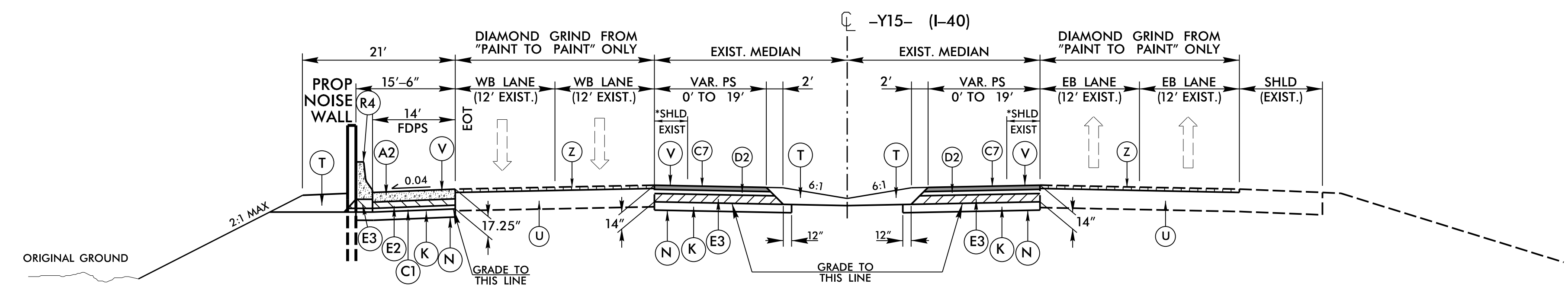
PAVEMENT SCHEDULE	
A1	12" DOW. JOINT. CON
A2	12" JOINT. CONC.
A3	7" CONC. TRUCK APRON
C1	1.25" S9.5B
C2	1.5" S9.5B
C3	2" S9.5B
C4	2.5" S9.5B
C5	3" S9.5B
C6	VAR. S9.5B
C7	3" S9.5C
D1	2.5" I19.0C
D2	4" I19.0C
D3	VAR. I19.0C
E1	3" B25.0C
E2	4" B25.0C
E4	9" B25.0C
E5	VAR. B25.0C
J1	8" ABC
J2	10" ABC
K	SUBGRADE STAB.
N	GEO. FOR SOIL STAB.
P	PRIME COAT
R1	1'-6" CONC. C&G
R2	2'-6" CONC. C&G
R3	5" CONC. ISLAND
R4	CONCRETE BARRIER
R5	DO. FACE CON. BARR.
R6	DDI BARRIER
R7	4" CONC. COVER
R8	SHLD. BERM GUTTER
R9	MOD. 2'-6" CONC. C&G
R10	MOD. VALLEY GUT.
R11	CONC. EXPRWAY. GUT.
S	4" CONCRETE SIDEWALK
T	EARTH MATERIAL
U	EXISTING PAVEMENT
V	RUMBLE STRIPS
W	WEDGING
Y	INCIDENTAL MILLING
Z	DIAMOND GRINDING

PLOT DRIVER: NCDOT_color_eng_50.plt
 USER: CHARRIS
 FILE: NCDOT\NCDOT-U2579AB\6.0.CAD.BTM\6.2.Work\In_Progress\U-2579AB\Roadway\Proj\U2579ab_rdy_typ.dgn
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 DATE: 10/12/2021

REVISIONS

6/2/2019

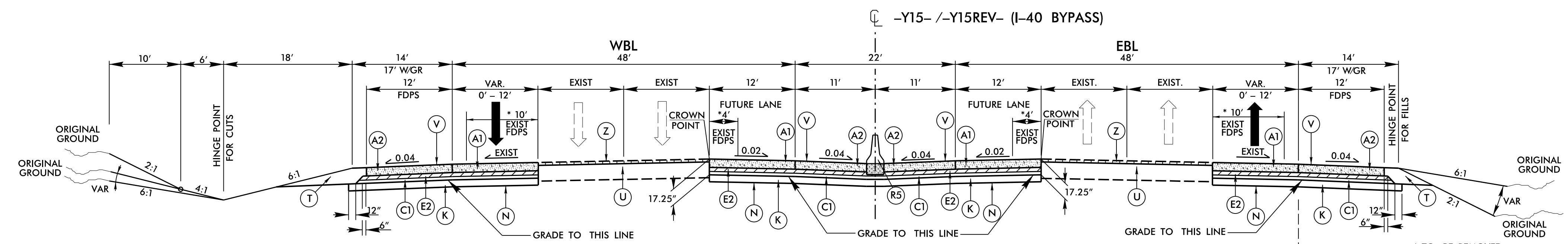
PROJECT REFERENCE NO. U-2579AB	SHEET NO. 2A-9
ROADWAY DESIGN ENGINEER 	PAVEMENT DESIGN ENGINEER 
10/13/2021	10/13/2021
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
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TYPICAL SECTION NO. 30

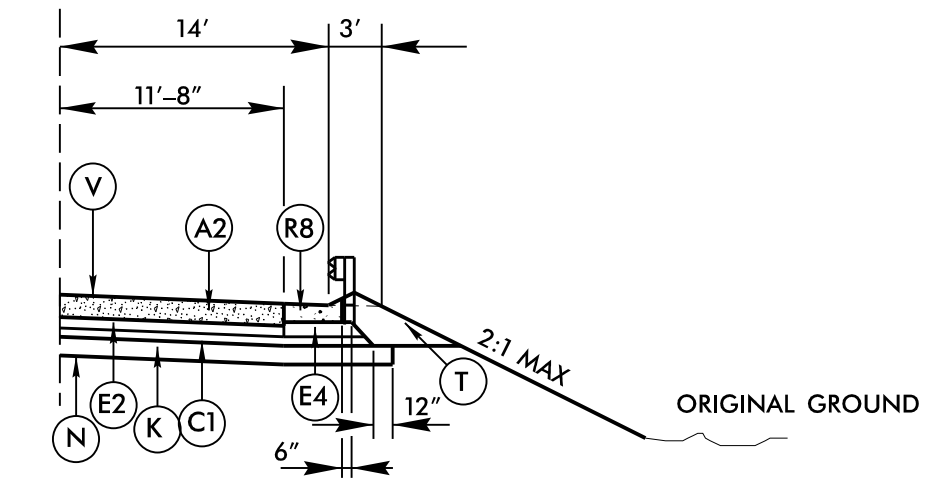
* TO BE REMOVED
 USE TYPICAL SECTION NO. 30
 -Y15- STA. 17+53.25 TO STA. 21+50.00

PAVEMENT SCHEDULE	
A1	12" DOW. JOINT. CON.
A2	12" JOINT. CONC.
A3	7" CONC. TRUCK APRON
C1	1.25" S9.5B
C2	1.5" S9.5B
C3	2" S9.5B
C4	2.5" S9.5B
C5	3" S9.5B
C6	VAR. S9.5B
C7	3" S9.5C
D1	2.5" I19.0C
D2	4" I19.0C
D3	VAR. I19.0C
E1	3" B25.0C
E2	4" B25.0C
E3	7" B25.0C
E4	9" B25.0C
E5	VAR. B25.0C
J1	8" ABC
J2	10" ABC
K	SUBGRADE STAB.
N	GEO. FOR SOIL STAB.
P	PRIME COAT
R1	1'-6" CONC. C&G
R2	2'-6" CONC. C&G
R3	5" CONC. ISLAND
R4	CONCRETE BARRIER
R5	DO. FACE CON. BARR.
R6	DDI BARRIER
R7	4" CONC. COVER
R8	SHLD. BERM GUTTER
R9	MOD. 2'-6" CONC. C&G
R10	MOD. VALLEY GUT.
R11	CONC. EXPRWAY. GUT.
S	4" CONCRETE SIDEWALK
T	EARTH MATERIAL
U	EXISTING PAVEMENT
V	RUMBLE STRIPS
W	WEDGING
Y	INCIDENTAL MILLING
Z	DIAMOND GRINDING



TYPICAL SECTION NO. 31

* TO BE REMOVED
 ** STATIONS INCLUDE AN EQUALITY WITH -Y15REV-
 USE TYPICAL SECTION NO. 31 **
 -Y15- STA. 21+50.00 TO STA. 56+00.00 L.B. =
 -Y15REV- STA. 8+00.00 L.A.
 -Y15REV- (WBL) STA. 81+50.00 TO STA. 96+28.30 L.B. =
 -Y15- (WBL) STA. 145+00.00 L.A. TO STA. 176+96.90
 -Y15REV- (EBL) STA. 80+24.53 TO STA. 96+28.30 L.B. =
 -Y15- (EBL) STA. 145+00.00 L.A. TO STA. 176+96.90



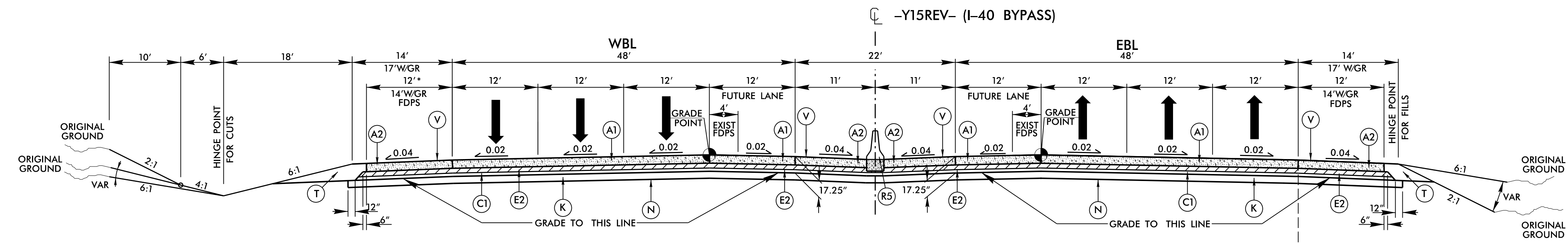
TYPICAL SECTION NO. 30A
 SHOULDER BERM GUTTER &
 FULL DEPTH PAVED SHOULDERS
 (SEE PLANS FOR LOCATIONS)

REVISIONS

PLOT DRIVER: NCDOT_color_eng_50.plt
 USER: CHARRIS
 FILE: NCDOT\NCDOT-U2579AB\6.0.CAD.BTM\6.2.Work.In_Progress\U-2579AB\Roadway\Proj\U2579ab_rdy_typ.dgn
 PENTABLE: NCDOT_pshpfl_conventional.tbi
 DATE: 10/13/2021
 TIME: 3:21:45 PM

6/2/2021

PROJECT REFERENCE NO. U-2579AB	SHEET NO. 2A-10
ROADWAY DESIGN ENGINEER SEAL 040286 MURRAY E. HARRIS	PAVEMENT DESIGN ENGINEER SEAL 024964 COPPEL T. HOLLAND
10/13/2021	10/13/2021
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
HDR HDR Engineering, Inc. of the Carolinas 555 Fayetteville St. Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	



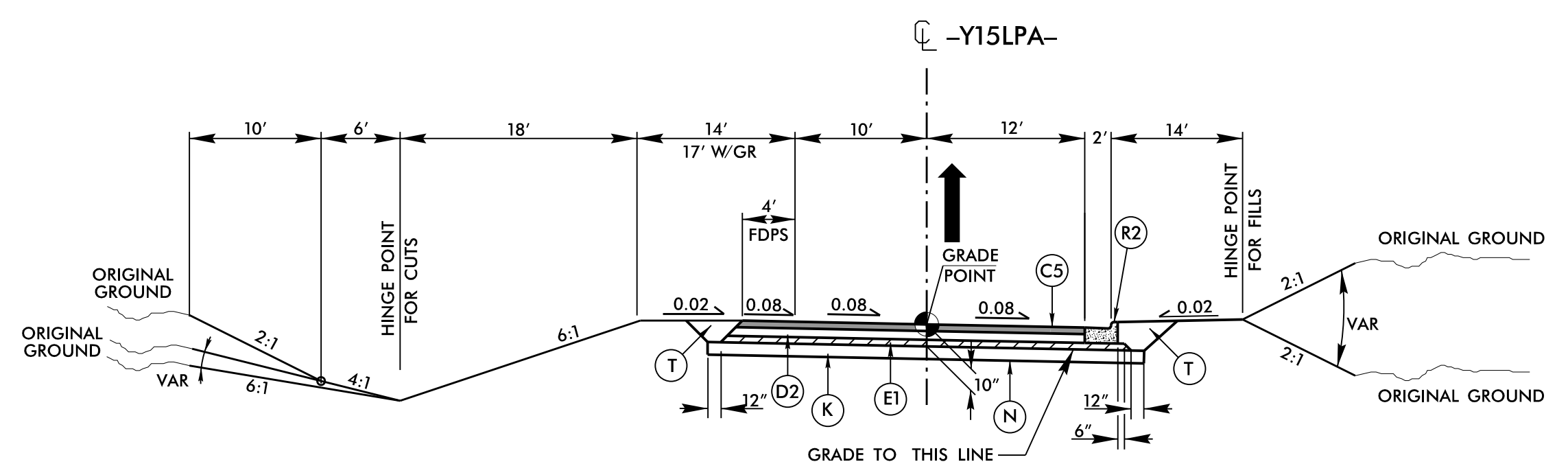
TYPICAL SECTION NO. 32

* STATIONS INCLUDE AN EQUALITY WITH -Y15-
USE TYPICAL SECTION NO. 32 *

-Y15REV- STA. 8+00.00 L.A. = -Y15- STA. 56+00.00 L.B.
TO -Y15REV- STA. 46+12.61(BEGIN BRIDGE)

-Y15REV- STA. 48+57.61(END BRIDGE) TO
-Y15REV- (EBL) STA. 80+24.53

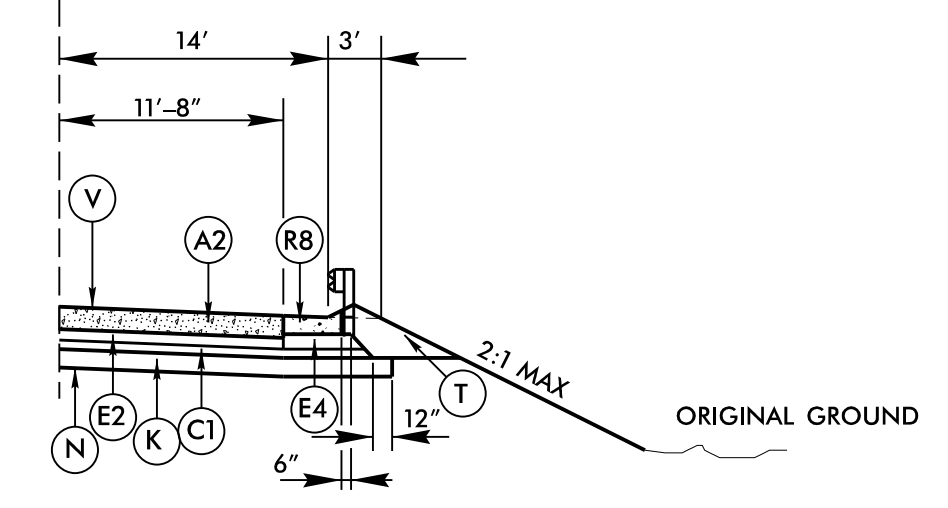
-Y15REV- STA. 48+57.61(END BRIDGE) TO
-Y15REV- (WBL) STA. 81+50.00



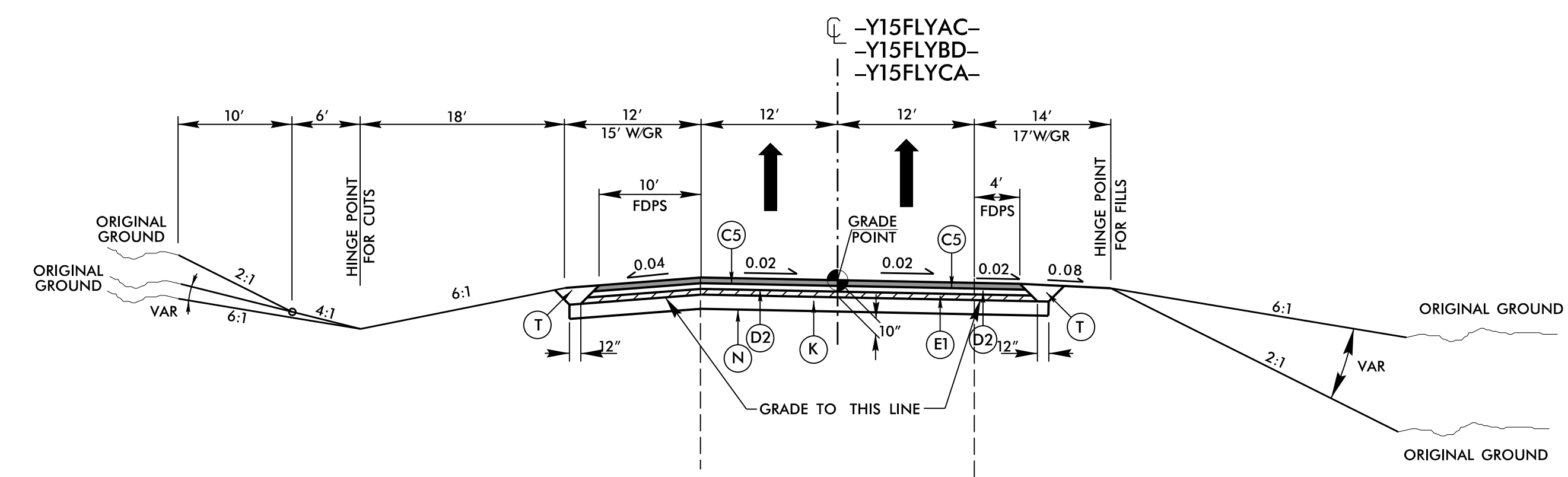
TYPICAL SECTION NO. 33

USE TYPICAL SECTION NO. 33

-Y15LPA- STA. 15+68.40 TO STA. 24+45.14



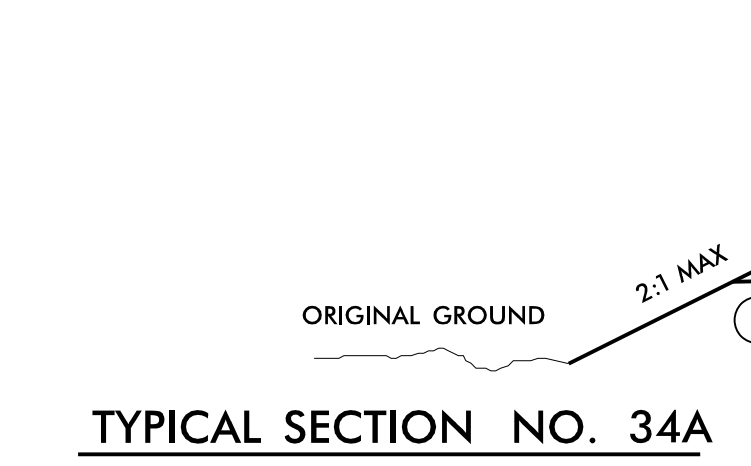
TYPICAL SECTION NO. 32A
SHOULDER BERM GUTTER &
FULL DEPTH PAVED SHOULDERS
(SEE PLANS FOR LOCATIONS)



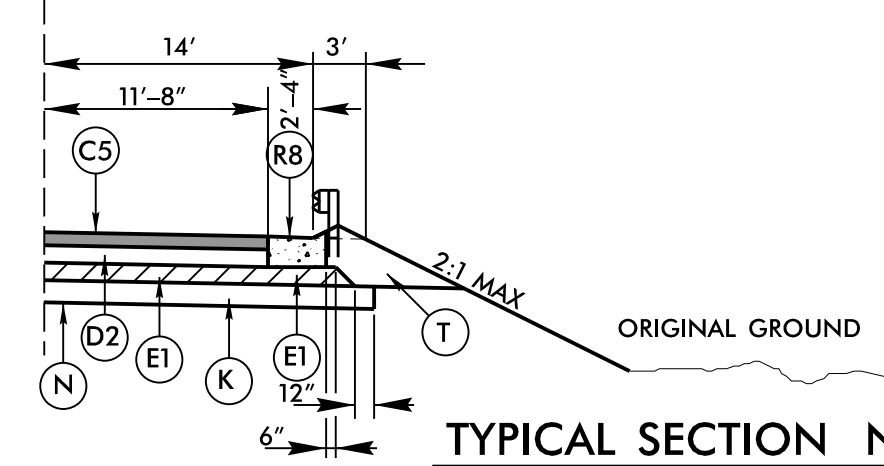
TYPICAL SECTION NO. 34

USE TYPICAL SECTION NO. 34

-Y15FLYAC- STA. 16+36.24 TO STA. 47+61.78(BEGIN BRIDGE)
-Y15FLYAC- STA. 66+44.78(END BRIDGE) TO STA. 86+31.83
-Y15FLYBD- STA. 16+38.98 TO STA. 39+40.31(BEGIN BRIDGE)
-Y15FLYBD- STA. 51+59.31(END BRIDGE) TO STA. 91+70.87
-Y15FLYCA- STA. 16+61.25 TO STA. 52+54.79(BEGIN BRIDGE)
-Y15FLYCA- STA. 69+71.79(END BRIDGE) TO STA. 84+89.13



TYPICAL SECTION NO. 34A
SHOULDER BERM GUTTER &
FULL DEPTH PAVED SHOULDERS
(SEE PLANS FOR LOCATIONS)



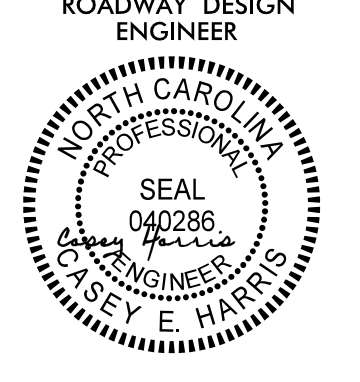
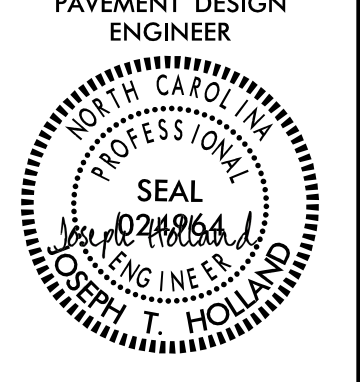

TYPICAL SECTION NO. 34B
SHOULDER BERM GUTTER &
FULL DEPTH PAVED SHOULDERS
(SEE PLANS FOR LOCATIONS)

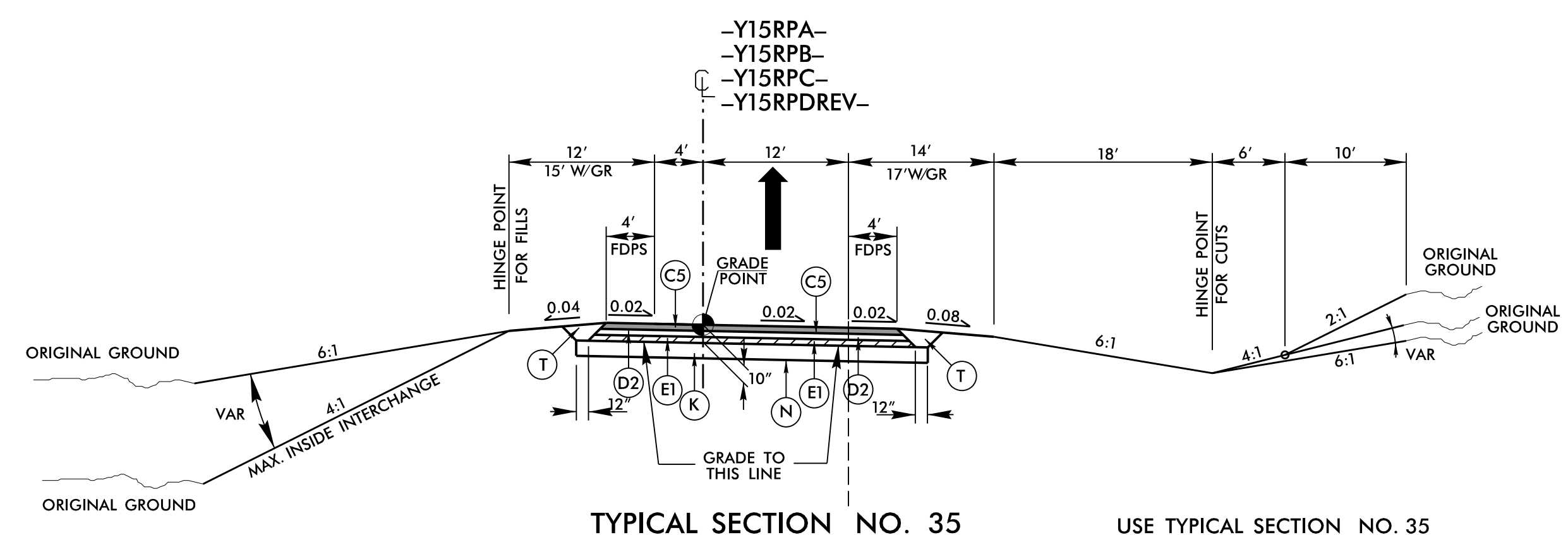
PAVEMENT SCHEDULE	
A1	12" DOW. JOINT. CON
A2	12" JOINT. CONC.
A3	7" CONC. TRUCK APRON
C1	1.25" S9.5B
C2	1.5" S9.5B
C3	2" S9.5B
C4	2.5" S9.5B
C5	3" S9.5B
C6	VAR. S9.5B
C7	3" S9.5C
D1	2.5" I19.0C
D2	4" I19.0C
D3	VAR. I19.0C
E1	3" B25.0C
E2	4" B25.0C
E4	9" B25.0C
E5	VAR. B25.0C
J1	8" ABC
J2	10" ABC
K	SUBGRADE STAB.
N	GEO. FOR SOIL STAB.
P	PRIME COAT
R1	1'-6" CONC. C&G
R2	2'-6" CONC. C&G
R3	5" CONC. ISLAND
R4	CONCRETE BARRIER
R5	DO. FACE CON. BARR.
R6	DDI BARRIER
R7	4" CONC. COVER
R8	SHLD. BERM GUTTER
R9	MOD. 2'-6" CONC. C&G
R10	MOD. VALLEY GUT.
R11	CONC. EXPRWAY. GUT.
S	4" CONCRETE SIDEWALK
T	EARTH MATERIAL
U	EXISTING PAVEMENT
V	RUMBLE STRIPS
W	WEDGING
Y	INCIDENTAL MILLING
Z	DIAMOND GRINDING

PLOT DRIVER: NCDOT_pdf_color_eng_50.plt
 USER: CHARRIS
 FILE: NCDOT\NCDOT-U2579AB\6.0.CAD.BTM\6.2.Work.In.Progress\U-2579AB\Roadway\Proj\U2579ab_r.dwg.tyd.cgn
 PENTABLE: NCDOT_pshpfl_conventional.tbi
 DATE: 10/12/2021
 TIME: 9:36:04 AM

REVISIONS

6/2/2019

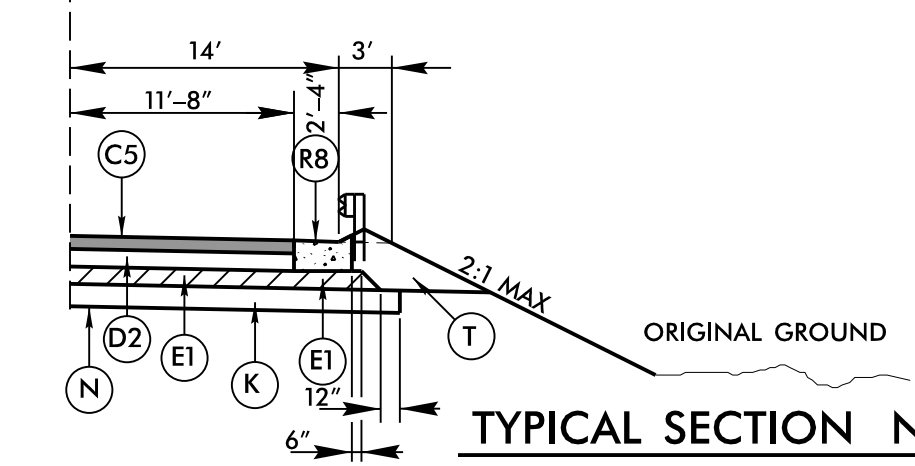
PROJECT REFERENCE NO. U-2579AB	SHEET NO. 2A-11
ROADWAY DESIGN ENGINEER 	PAVEMENT DESIGN ENGINEER 
10/13/2021	10/13/2021
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
 HDR Engineering, Inc. of the Carolinas 555 Fayetteville St. Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	



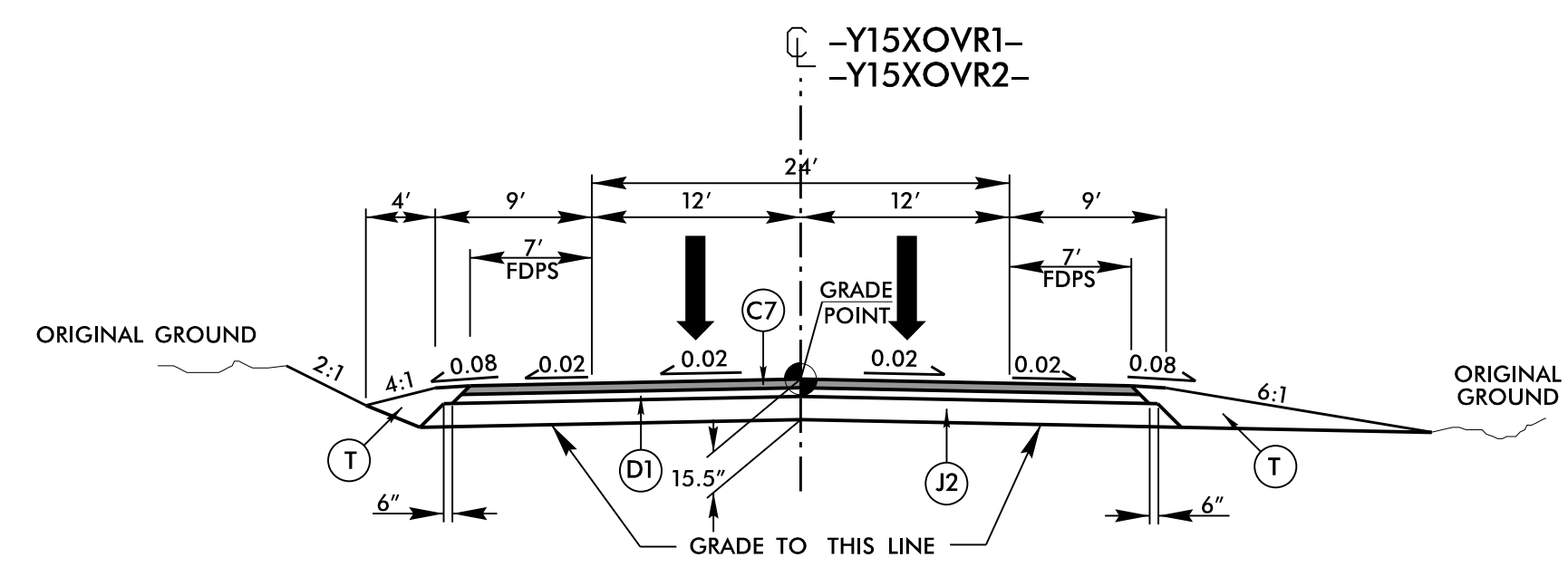
TYPICAL SECTION NO. 35

USE TYPICAL SECTION NO. 35

- Y15RPA- STA. 13+37.14 TO STA. 32+54.11
- Y15RPB- STA. 13+70.02 TO STA. 32+92.63
- Y15RPC- STA. 13+31.92 TO STA. 27+48.21
- Y15RPDEV- STA. 18+75.11 TO STA. 46+21.66



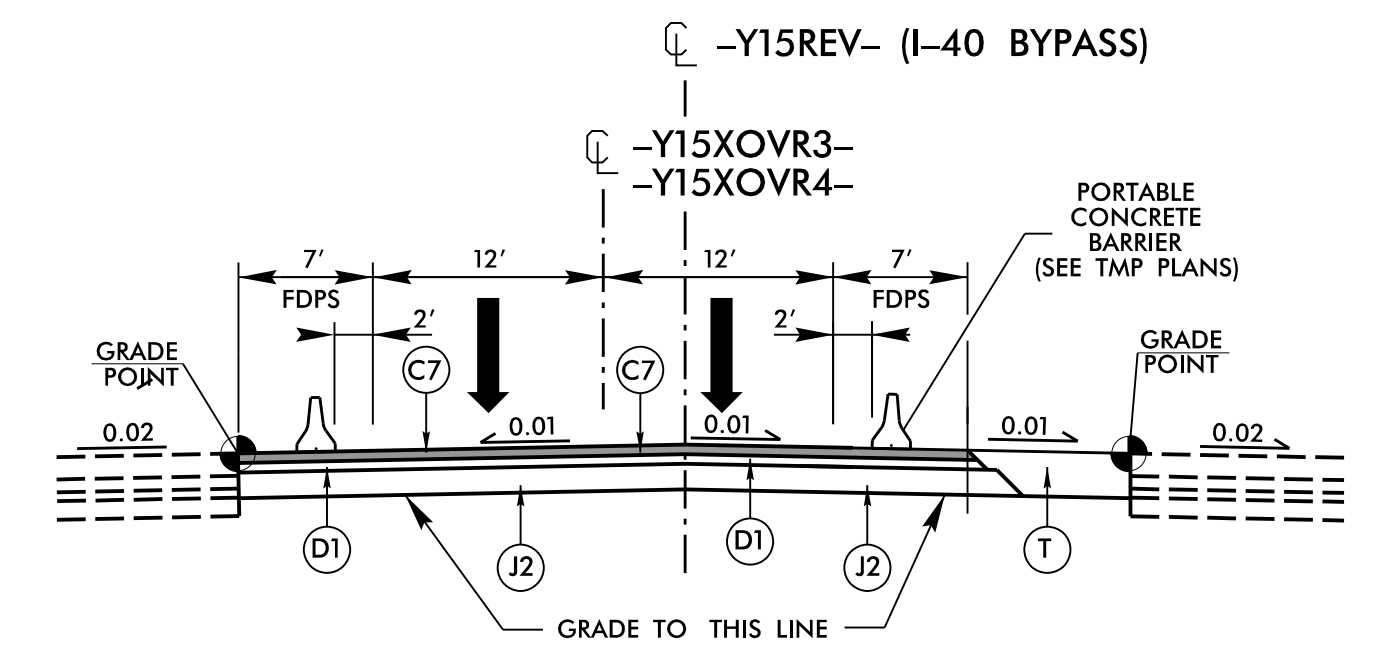
TYPICAL SECTION NO. 35A
 SHOULDER BERM GUTTER &
 FULL DEPTH PAVED SHOULDERS
 (SEE PLANS FOR LOCATIONS)



TYPICAL SECTION NO. 36

USE TYPICAL SECTION NO. 36

- Y15XOVR1- STA. 13+47.37 TO STA. 18+41.52
- Y15XOVR2- STA. 13+52.06 TO STA. 18+41.34



TYPICAL SECTION NO. 37

USE TYPICAL SECTION NO. 37

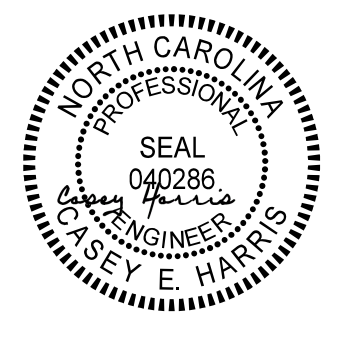
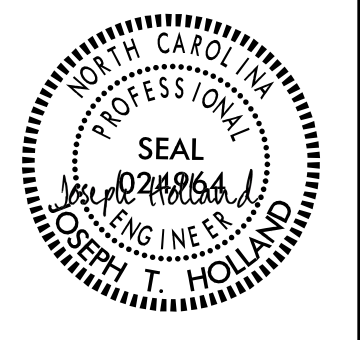

- Y15XOVR3- STA. 10+00 TO STA. 21+50.54
- Y15XOVR4- STA. 12+69.07 TO STA. 24+87.54

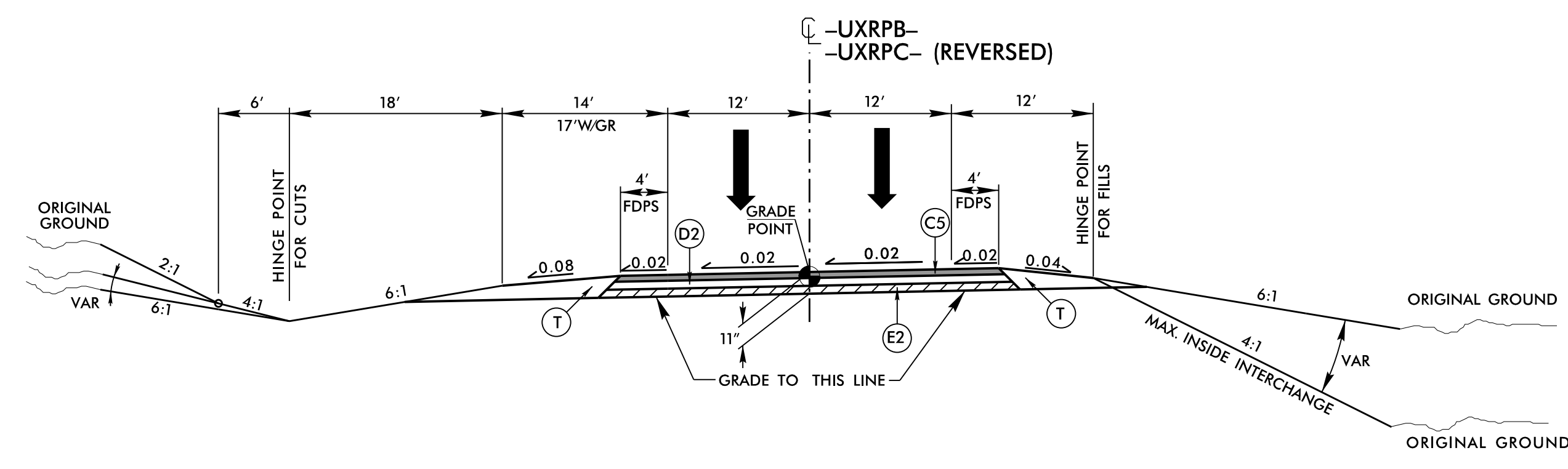
PAVEMENT SCHEDULE	
A1	12" DOW. JOINT. CON
A2	12" JOINT. CONC.
A3	7" CONC. TRUCK APRON
C1	1.25" S9.5B
C2	1.5" S9.5B
C3	2" S9.5B
C4	2.5" S9.5B
C5	3" S9.5B
C6	VAR. S9.5B
C7	3" S9.5C
D1	2.5" I19.0C
D2	4" I19.0C
D3	VAR. I19.0C
E1	3" B25.0C
E2	4" B25.0C
E4	9" B25.0C
E5	VAR. B25.0C
J1	8" ABC
J2	10" ABC
K	SUBGRADE STAB.
N	GEO. FOR SOIL STAB.
P	PRIME COAT
R1	1'-6" CONC. C&G
R2	2'-6" CONC. C&G
R3	5" CONC. ISLAND
R4	CONCRETE BARRIER
R5	DO. FACE CON. BARR.
R6	DDI BARRIER
R7	4" CONC. COVER
R8	SHLD. BERM GUTTER
R9	MOD. 2'-6" CONC. C&G
R10	MOD. VALLEY GUT.
R11	CONC. EXPRWAY. GUT.
S	4" CONCRETE SIDEWALK
T	EARTH MATERIAL
U	EXISTING PAVEMENT
V	RUMBLE STRIPS
W	WEDGING
Y	INCIDENTAL MILLING
Z	DIAMOND GRINDING

PLOT DRIVER: NCDOT_color_eng_50.plt
 USER: CHARRIS
 DATE: 10/12/2021
 TIME: 9:37:25 AM
 FILE: NCDOT\NCDOT-U2579AB\6.0.CAD.BTM\6.2.Work\In_Progress\U-2579AB\Roadway\Proj\U2579ab_r.dwg typ.dgn

REVISIONS

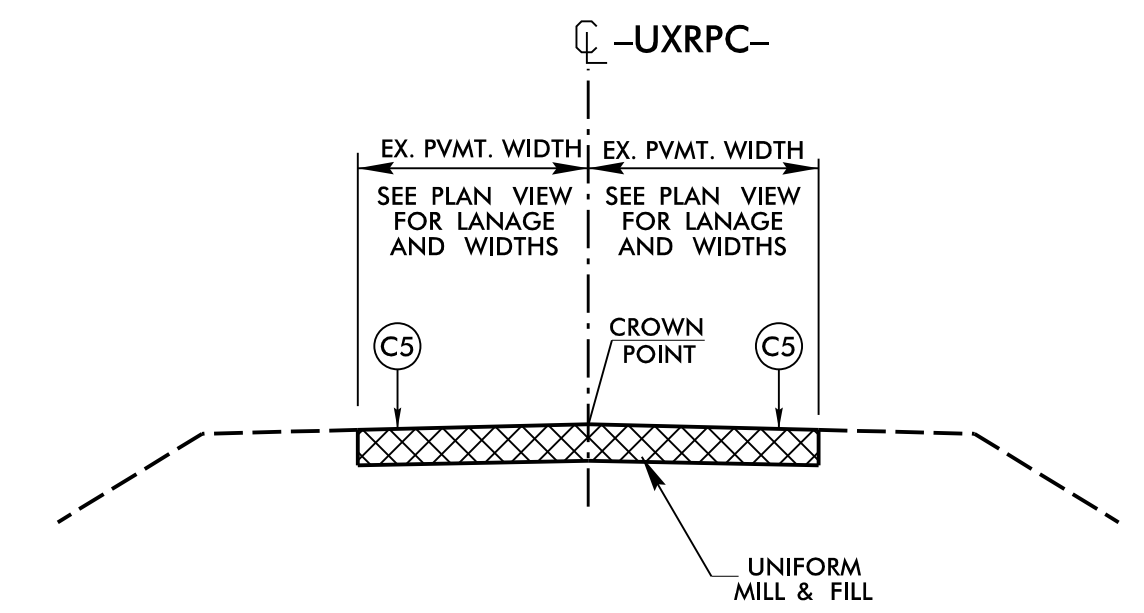
6/2/2021

PROJECT REFERENCE NO. U-2579AB	SHEET NO. 2A-12
ROADWAY DESIGN ENGINEER 	PAVEMENT DESIGN ENGINEER 
10/13/2021	10/13/2021
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
 HDR Engineering, Inc. of the Carolinas 555 Fayetteville St. Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	



TYPICAL SECTION NO. 38

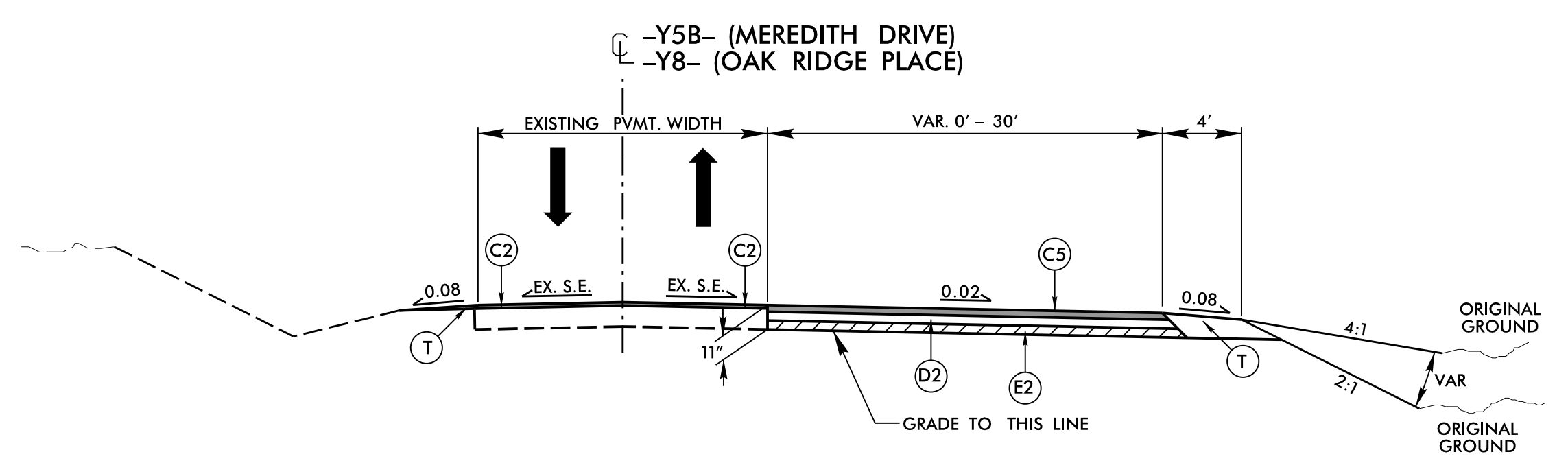
USE TYPICAL SECTION NO. 38
 -UXRPB- STA. 14+06.32 TO STA. 22+70.00
 -UXRPC- STA. 16+77.03 TO STA. 21+00.00



TYPICAL SECTION NO. 39

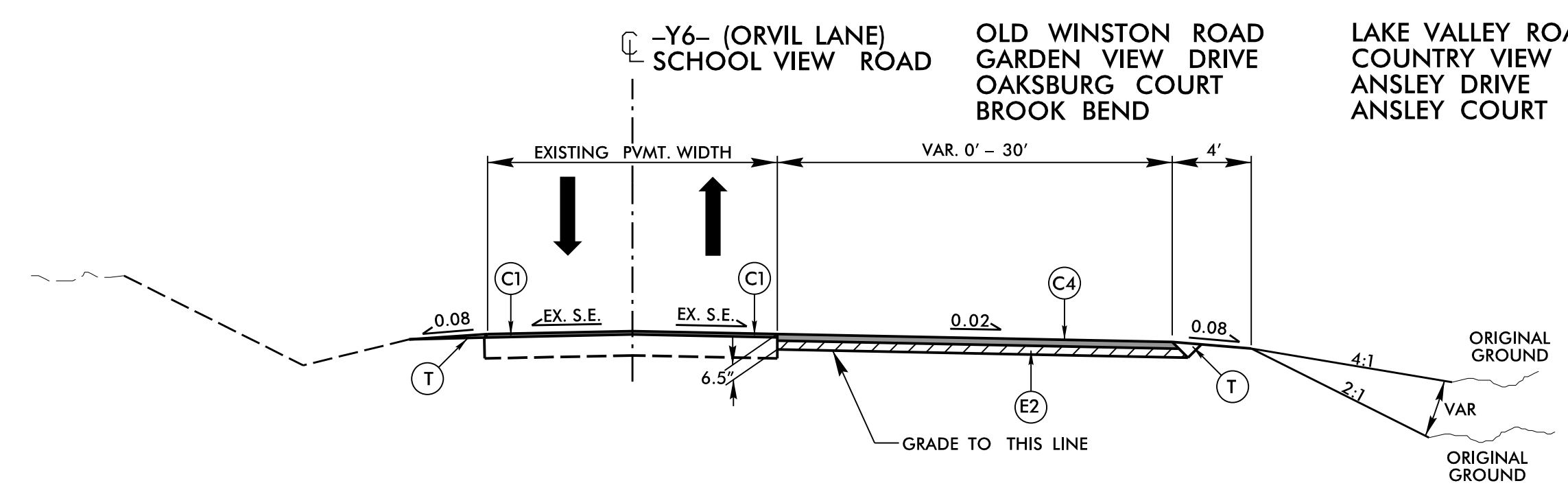
USE TYPICAL SECTION NO. 39
 -UXRPC- STA. 21+00.00 TO STA. 23+20.00

PAVEMENT SCHEDULE	
A1	12" DOW. JOINT. CON
A2	12" JOINT. CONC.
A3	7" CONC. TRUCK APRON
C1	1.25" S9.5B
C2	1.5" S9.5B
C3	2" S9.5B
C4	2.5" S9.5B
C5	3" S9.5B
C6	VAR. S9.5B
C7	3" S9.5C
D1	2.5" I19.0C
D2	4" I19.0C
D3	VAR. I19.0C
E1	3" B25.0C
E2	4" B25.0C
E4	9" B25.0C
E5	VAR. B25.0C
J1	8" ABC
J2	10" ABC
K	SUBGRADE STAB.
N	GEO. FOR SOIL STAB.
P	PRIME COAT
R1	1'-6" CONC. C&G
R2	2'-6" CONC. C&G
R3	5" CONC. ISLAND
R4	CONCRETE BARRIER
R5	DO. FACE CON. BARR.
R6	DDI BARRIER
R7	4" CONC. COVER
R8	SHLD. BERM GUTTER
R9	MOD. 2'-6" CONC. C&G
R10	MOD. VALLEY GUT.
R11	CONC. EXPRWAY. GUT.
S	4" CONCRETE SIDEWALK
T	EARTH MATERIAL
U	EXISTING PAVEMENT
V	RUMBLE STRIPS
W	WEDGING
Y	INCIDENTAL MILLING
Z	DIAMOND GRINDING



TYPICAL SECTION NO. 40

USE TYPICAL SECTION NO. 40
 SEE PLAN VIEW FOR TURNAROUND LOCATIONS AND PAVING LIMITS
 NOTES:
 OVERLAY THE EXISTING PAVEMENT
 NO PROFILE PROVIDED FOR TURNAROUND
 WIDEN OFF THE EXISTING



TYPICAL SECTION NO. 41


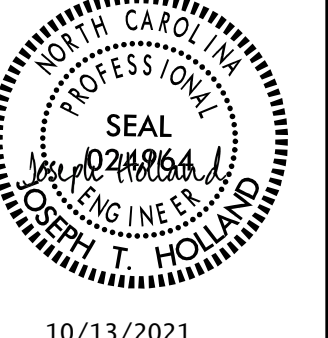

USE TYPICAL SECTION NO. 41
 SEE PLAN VIEW FOR TURNAROUND LOCATIONS AND PAVING LIMITS
 NOTES:
 OVERLAY THE EXISTING PAVEMENT
 NO PROFILE PROVIDED FOR TURNAROUND
 WIDEN OFF THE EXISTING

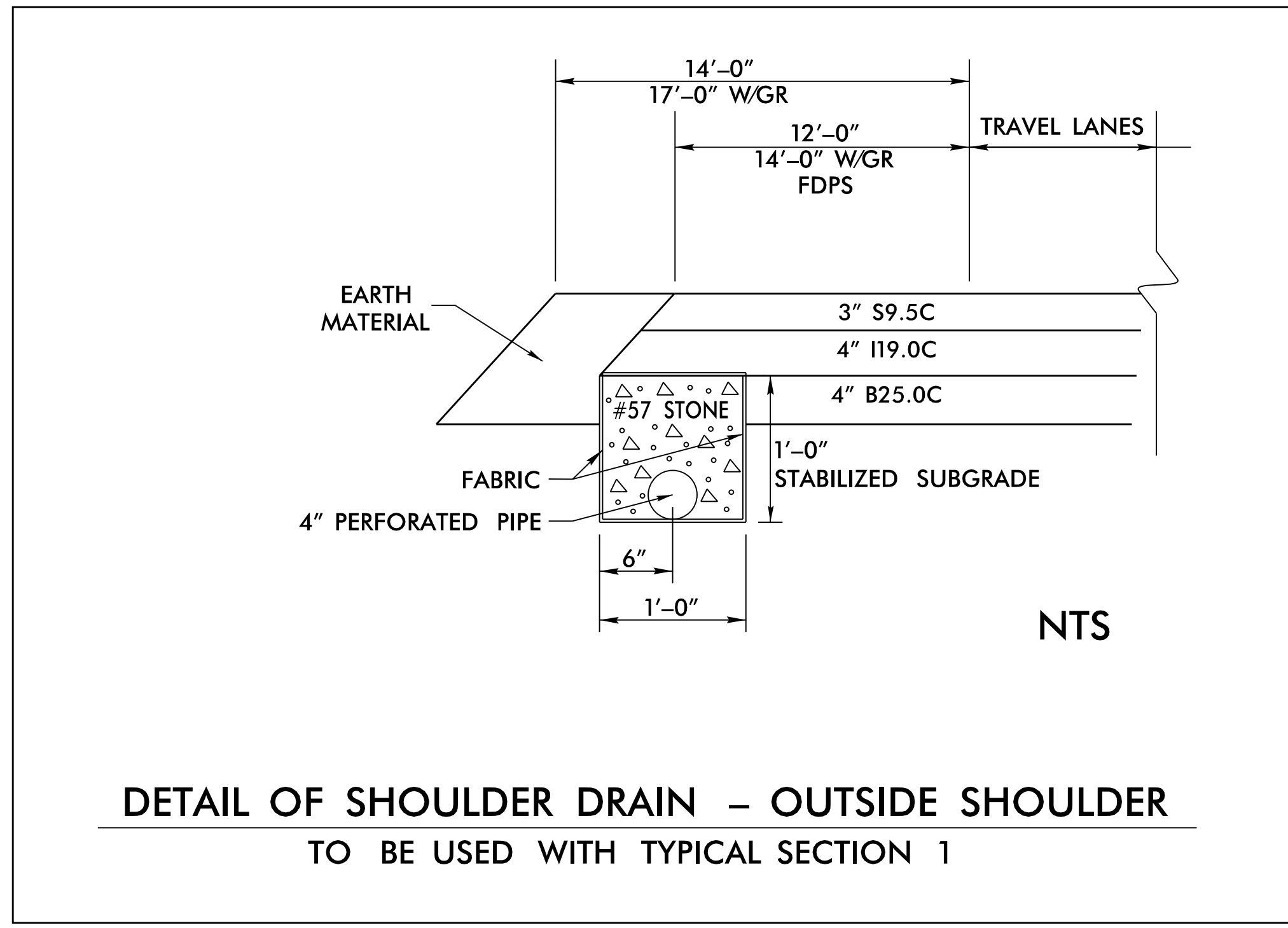
REVISIONS

PLOT DRIVER: NCDOT_color_eng_50.plt
 USER: CHARRIS
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PENTABLE: NCDOT_pshpfl_conventional.tbi

6/2/2019

PROJECT REFERENCE NO. U-2579AB	SHEET NO. 2A-13
ROADWAY DESIGN ENGINEER 	PAVEMENT DESIGN ENGINEER 
10/13/2021	10/13/2021
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
 HDR Engineering, Inc. of the Carolinas 555 Fayetteville St, Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	



NORTHBOUND OUTSIDE

FROM L 700+50 LT TO L 712+50 LT (Y4RPA 15+04.56)	
700+50	PAD
702+50	2GI (518)
703+50	2GI (519)
705+30	2GI (511)
706+00	2GI (512)
708+00	2GI (627)
711+00	2GI (632)
FROM L 715+00 LT TO L 731+00 LT	
715+00	2GI (639)
717+50	2GI (642)
720+00	PAD
721+55	PAD
724+50	PAD
725+00	2GI (673)
726+00	2GI (6105)
729+00	2GI (679)
FROM L 733+00 LT (Y4RPD 14+33.18) TO L 737+41.93	
735+00	PAD
737+41.93	PAD
FROM L 768+50 LT TO L 772+56.63	
770+60	PAD
FROM L 819+50 LT TO L 831+50	
819+50	PAD
822+50	PAD
825+50	PAD
828+50	PAD
831+50	PAD

SOUTHBOUND OUTSIDE

FROM L 721+21.65 RT TO L 731+00 RT	
721+21.65	PAD
721+80	2GI (647)
724+50	PAD
725+00	2GI (6103)
728+00	PAD
729+00	2GI (683)
FROM L 732+00 RT TO L 738+00 RT	
733+25	2GI (703)
736+00	PAD
737+00	2GI (708)
738+00	PAD
FROM L 767+00 RT TO L 792+00 RT	
770+00	PAD
773+00	PAD
773+50	2GI (1001)
776+50	PAD
779+50	PAD
781+50	2GI (1024)
784+50	PAD
787+50	PAD
790+50	2GI (1041)
FROM L 802+00 RT TO L 819+00 RT	
802+00	PAD
804+00	2GI (1162)
807+00	PAD
810+00	PAD
813+00	2GI (1116)
816+00	PAD
FROM L 822+00 RT (Y15FLYAC 89+22.59) TO L 832+00 RT	
822+00	PAD
827+50	2GI (1136)
830+00	PAD
832+00	PAD

REVISIONS

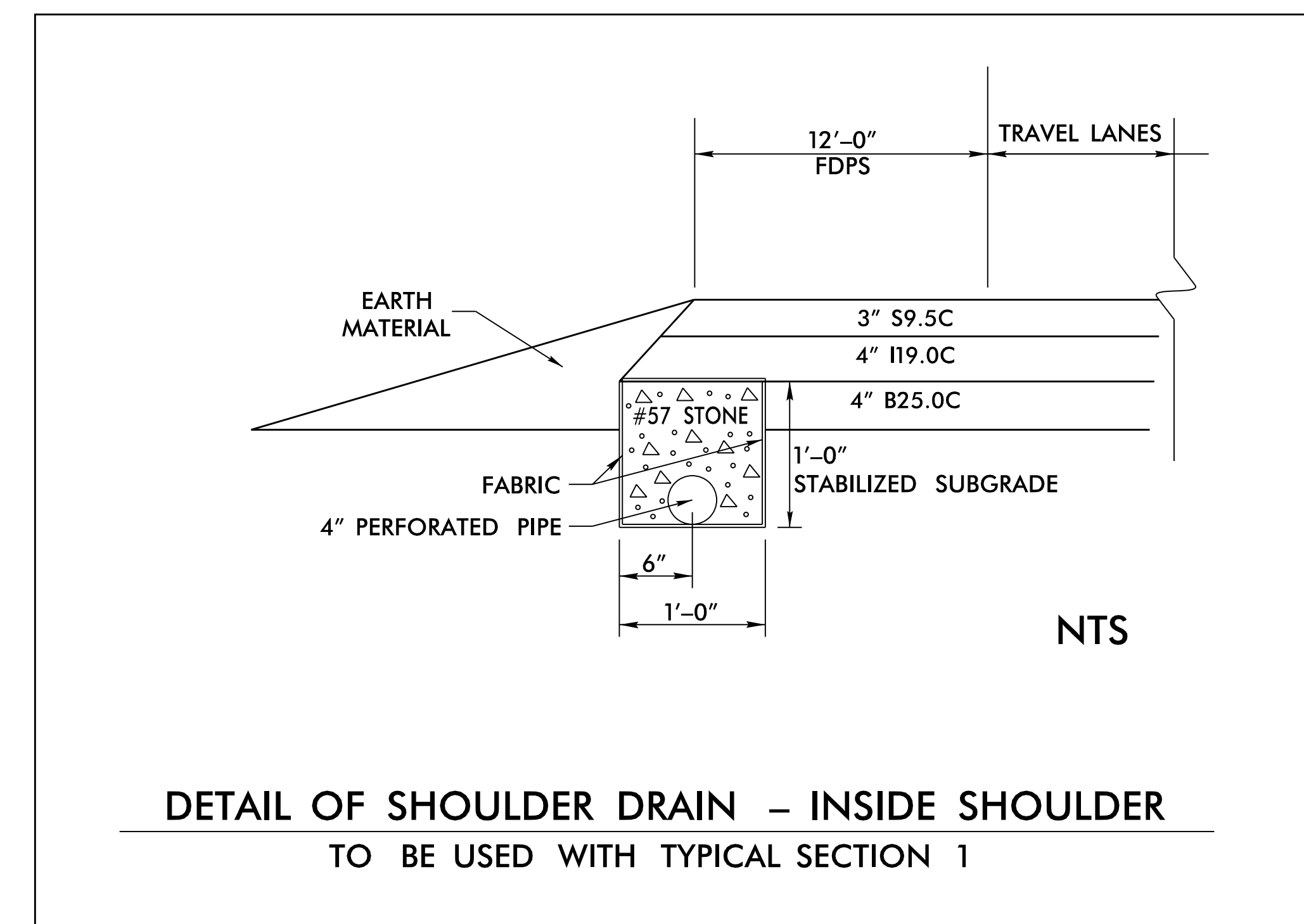
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 USER: SPEREIRA
 DATE: 8/27/2021
 TIME: 1:56:28 PM
 FILE: \

PENTABLE: NCDOT_pshpfl_conventional.tbl

6/2/2019

REVISIONS

PLOT DRIVER: NCDOT_color_eng_50.plt
 USER: SPEREIRA
 FILE: \



DETAIL OF SHOULDER DRAIN - INSIDE SHOULDER
TO BE USED WITH TYPICAL SECTION 1



NORTHBOUND INSIDE

FROM L 772+56.63 LT TO L 792+00 LT	
772+56.63	PAD
773+50	2GI (1002)
778+50	PAD
782+00	2GI-A (1025)
786+50	2GI-A (1031)
790+00	2GI-A (1040)
FROM L 802+20 LT TO L 816+82.50 LT	
802+20	2GI (1103)
804+00	2GI (1161)
809+00	2GI (1131)
813+00	2GI (1115)

SOUTHBOUND INSIDE

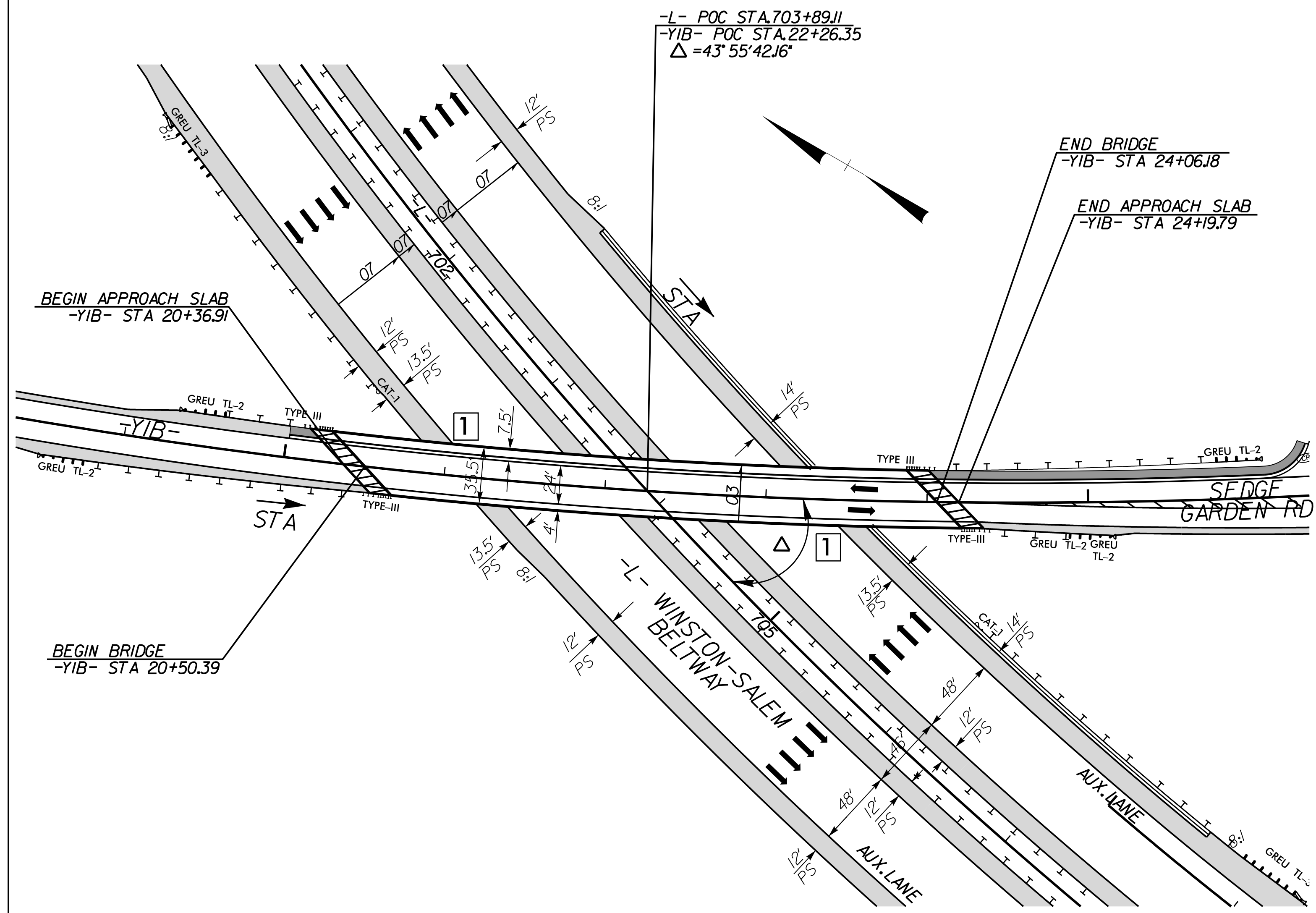
FROM L 701+00 RT TO L 721+21.65 RT	
701+00	2GI (503)
703+50	2GI (516)
704+50	2GI (513)
706+00	2GI (514)
708+00	2GI (628)
710+00	2GI (633)
712+00	2GI (643)
715+00	2GI-A (641)
717+50	2GI-A (644)

PROJECT REFERENCE NO. U-2579AB	SHEET NO. 2A-14
ROADWAY DESIGN ENGINEER 10/13/2021	PAVEMENT DESIGN ENGINEER 10/13/2021
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
HDR Engineering, Inc. of the Carolinas 555 Fayetteville St, Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	

PROJECT REFERENCE NO. U-2579AB	SHEET NO. 2B-1
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	
	
10/14/2021	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
 HDR Engineering, Inc. of the Carolinas 555 Fayetteville St. Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-01116	

BRIDGE SKETCHES

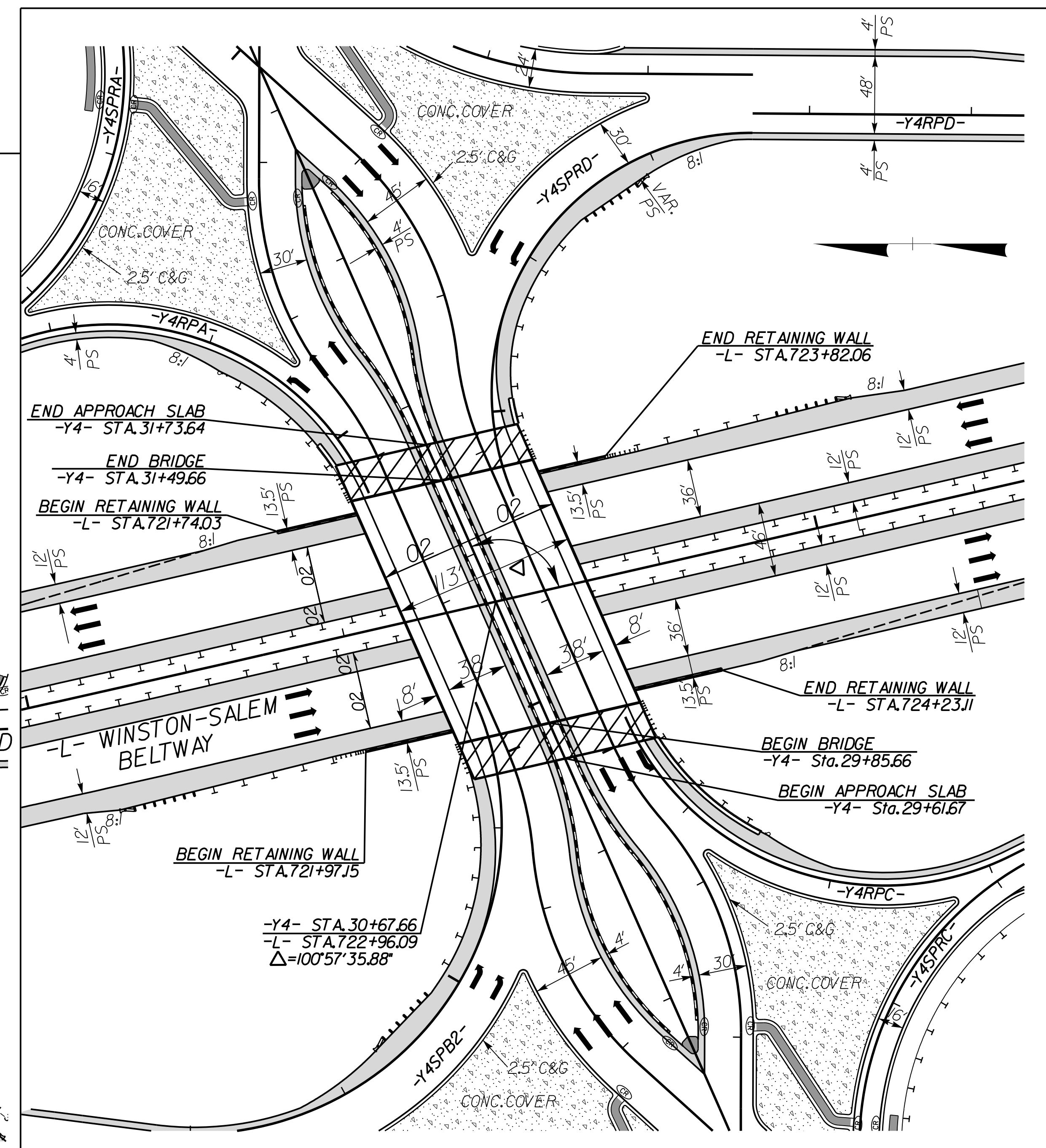
1 DETAIL SHOWING PAVEMENT AND BRIDGE RELATIONSHIP FOR -YIB- OVER -L-



SCALE: 1" = 50'

1 NOTE: SEE NCDOT STD.610.03



2 DETAIL SHOWING PAVEMENT AND BRIDGE RELATIONSHIP FOR -Y4- OVER -L-



SCALE: 1" = 50'

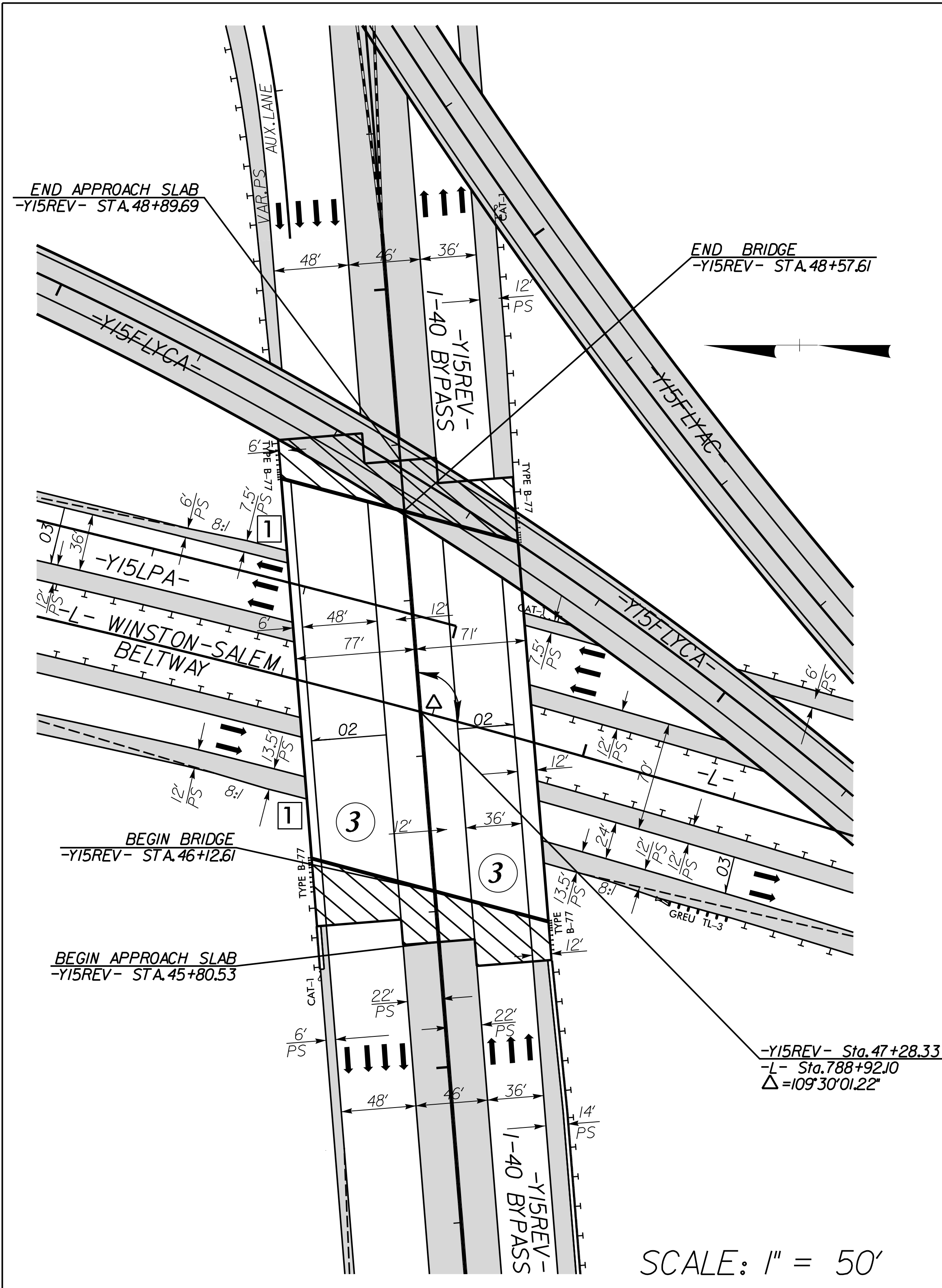
NOTES: SEE PLAN SHEET 5 FOR STRUCTURE 1 ROADWAY PLAN
SEE PLAN SHEET 6 FOR STRUCTURE 2 ROADWAY PLAN

PLOT DRIVER: NCDOT_color_eng_50.plt
 USER: CHARRIS
 FILE: NCDOT\NCDOT-U2579AB\6.0.CAD.BTM\6.2.Work.In_Progress\U-2579AB\Roadway\Proj\U2579ab_rdy_structurer.ecs.dgn
 REVISIONS
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 TIME: 12:42:57 PM
 DATE: 7/13/2021

PROJECT REFERENCE NO.	SHEET NO.
U-2579AB	2B-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	
	
10/14/2021	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
 HDR Engineering, Inc. of the Carolinas 555 Fayetteville St. Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	

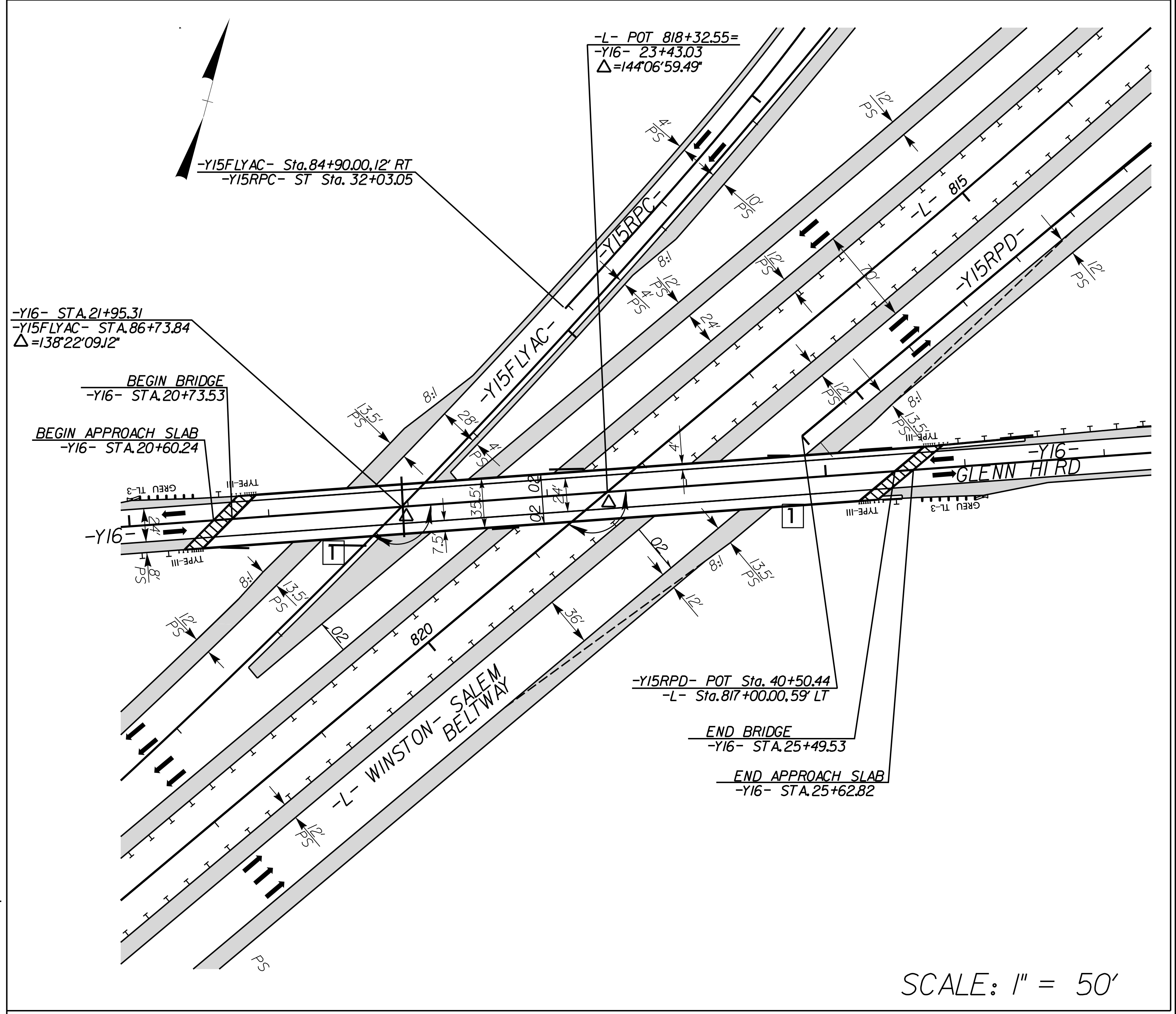
BRIDGE SKETCHES

3 DETAIL SHOWING PAVEMENT & BRIDGE RELATIONSHIP FOR -Y15REV- OVER -L-



SCALE: 1" = 50'

7 DETAIL SHOWING PAVEMENT & BRIDGE RELATIONSHIP FOR -Y16- OVER -L- AND -Y15FLYAC-



SCALE: 1" = 50'

NOTES: SEE PLAN SHEET 10 FOR STRUCTURE **3** ROADWAY PLAN
 SEE PLAN SHEET 11 FOR STRUCTURE **7** ROADWAY PLAN

1 NOTE: SEE NCDOT STD.610.03

PLOT DRIVER: NCDOT_color_eng_50.plt
 USER: CHARRIS
 FILE: NCDOT\NCDOT-U2579AB\6.0.CAD.BTM\6.2.Work\In_Progress\U-2579AB\Roadway\Proj\U2579ab_rdy_structureres.dgn
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 TIME: 12:42:58 PM
 DATE: 7/13/2021

REVISIONS

BRIDGE SKETCHES

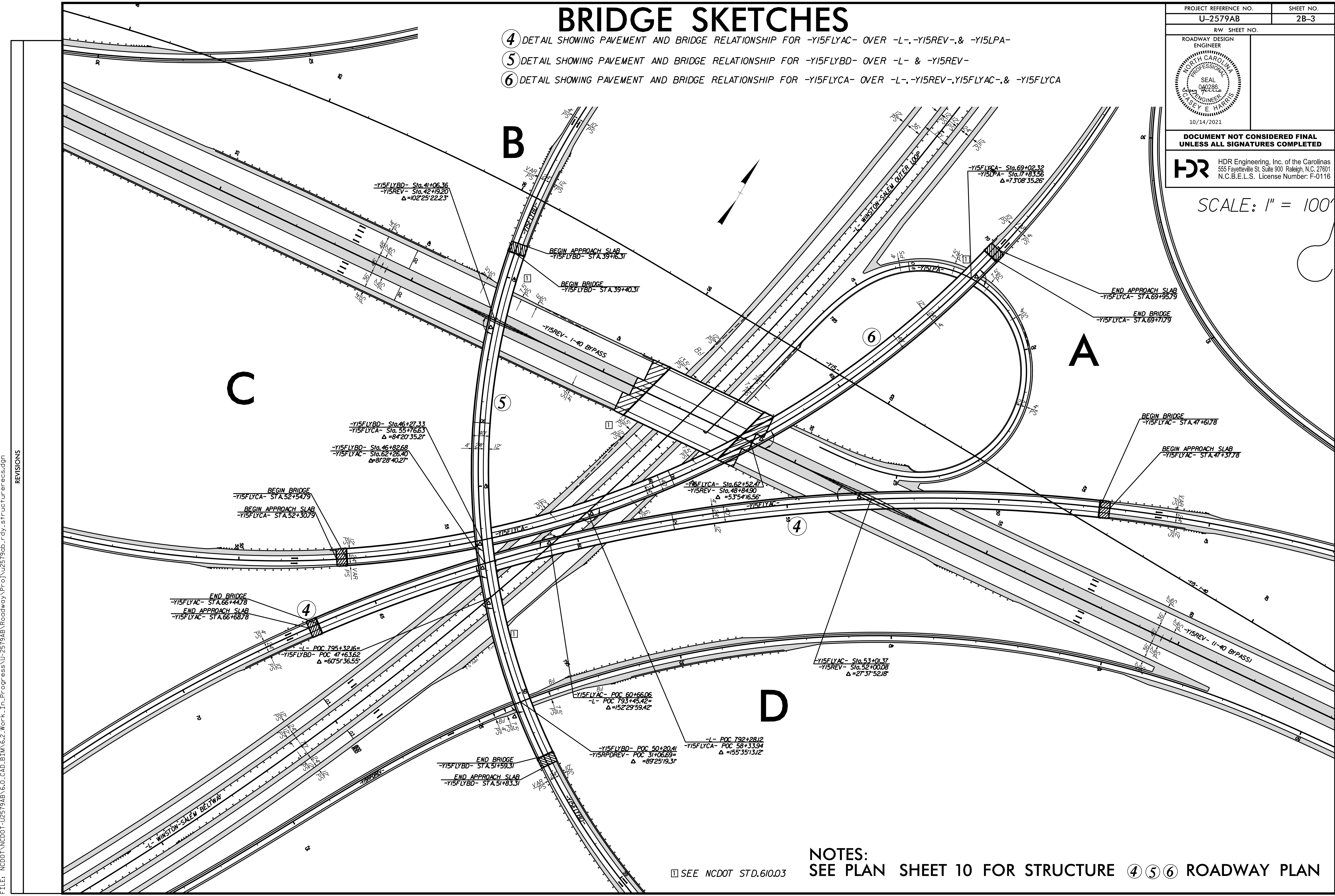
- ④ DETAIL SHOWING PAVEMENT AND BRIDGE RELATIONSHIP FOR -Y15FLYAC- OVER -L-, -Y15REV-, & -Y15LPA-
- ⑤ DETAIL SHOWING PAVEMENT AND BRIDGE RELATIONSHIP FOR -Y15FLYBD- OVER -L- & -Y15REV-
- ⑥ DETAIL SHOWING PAVEMENT AND BRIDGE RELATIONSHIP FOR -Y15FLYCA- OVER -L-, -Y15REV-, -Y15FLYAC-, & -Y15FLYCA

PROJECT REFERENCE NO. U-2579AB	SHEET NO. 2B-3
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	

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 555 Fayetteville St. Suite 900 Raleigh, N.C. 27601
 N.C.B.E.L.S. License Number: F-0116

SCALE: 1" = 100'



C

B

A


D

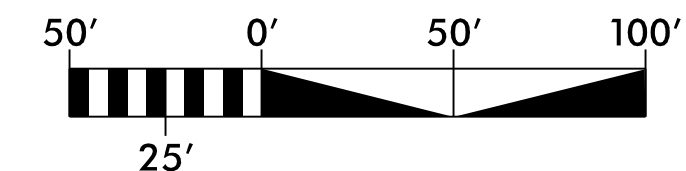
REVISIONS

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 TIME: 12:42:59 PM
 FILE: NCDOT\NCDOT-U2579AB\6.0.CAD.BTM\6.2.Work.In.Progress\U-2579AB\Roadway\Proj\U2579ab_rdy_structurerecs.dgn

SEE NCDOT STD.610.03

NOTES:
SEE PLAN SHEET 10 FOR STRUCTURE ④ ⑤ ⑥ ROADWAY PLAN

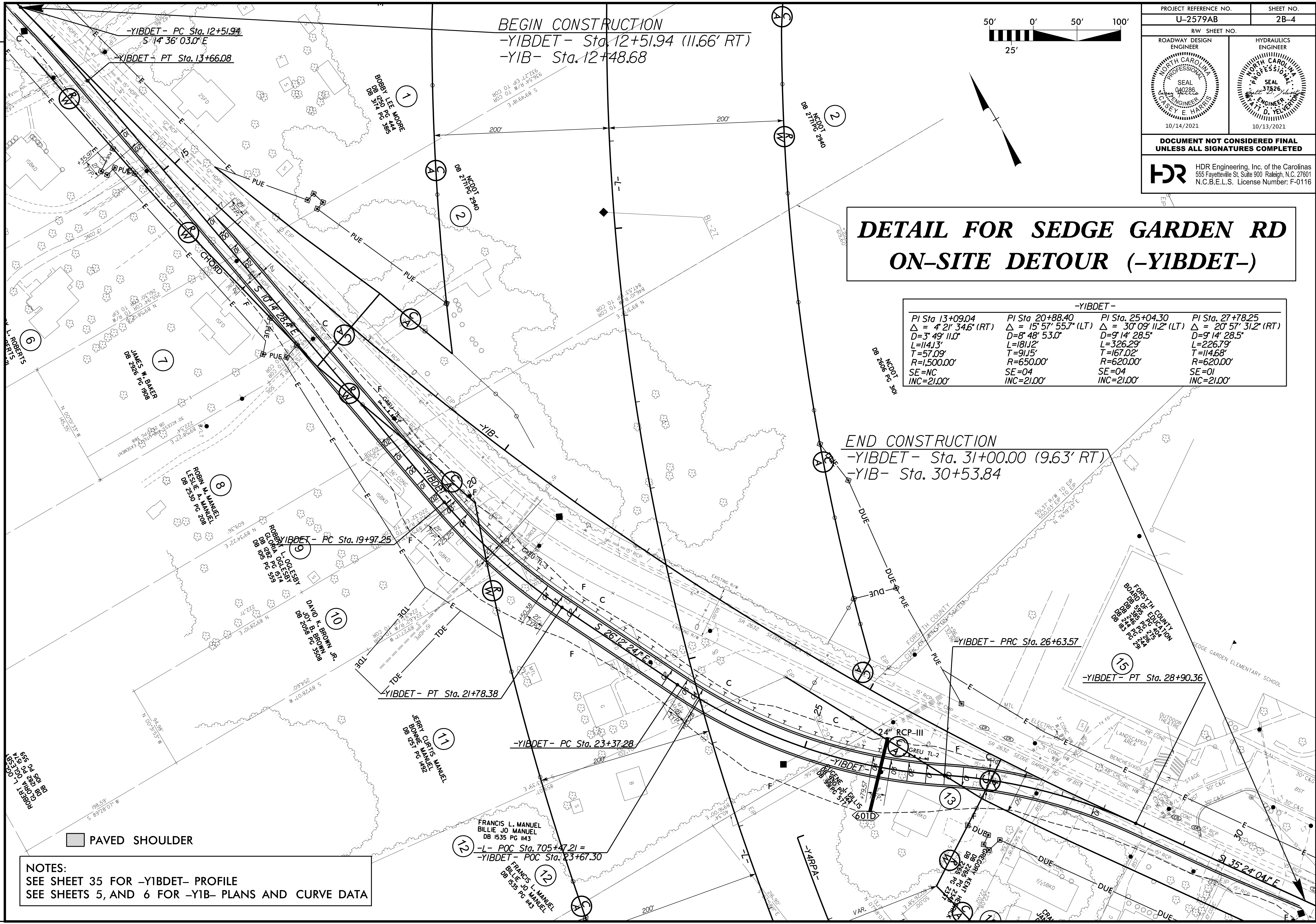
PROJECT REFERENCE NO. U-2579AB	SHEET NO. 2B-4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 040288 C. L. SEY, E. MARSHALL 10/14/2021	HYDRAULICS ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 37826 T. D. YELVERTON 10/13/2021
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DETAIL FOR SEDGE GARDEN RD ON-SITE DETOUR (-YIBDET-)

-YIBDET-			
PI Sta 13+09.04 $\Delta = 4^{\circ} 21' 34.6''$ (RT) D=3' 49' 11.0" L=114.13' T=57.09' R=1,500.00' SE=NC INC=21.00'	PI Sta 20+88.40 $\Delta = 15^{\circ} 57' 55.7''$ (LT) D=8' 48' 53.0" L=181.12' T=91.5' R=650.00' SE=04 INC=21.00'	PI Sta 25+04.30 $\Delta = 30^{\circ} 09' 11.2''$ (LT) D=9' 14' 28.5" L=326.29' T=167.02' R=620.00' SE=04 INC=21.00'	PI Sta 27+78.25 $\Delta = 20^{\circ} 57' 31.2''$ (RT) D=9' 14' 28.5" L=226.79' T=114.68' R=620.00' SE=01 INC=21.00'

END CONSTRUCTION
-YIBDET- Sta. 31+00.00 (9.63' RT)
-YIB- Sta. 30+53.84



NOTES:
SEE SHEET 35 FOR -YIBDET- PROFILE
SEE SHEETS 5, AND 6 FOR -YIB- PLANS AND CURVE DATA

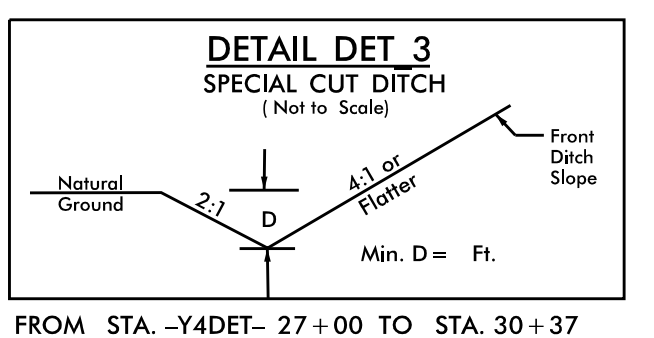
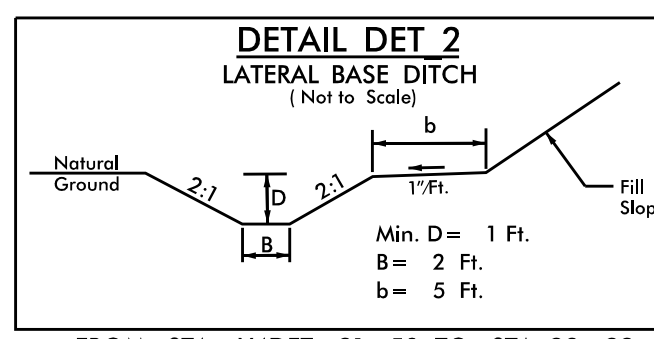
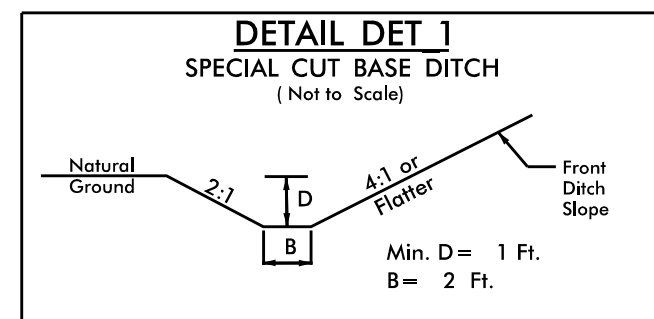
 PAVED SHOULDER

REVISIONS

PLOT DRIVER: NCDOT_color_eng_50.plt
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 DATE: 8/27/2021
 TIME: 1:57:16 PM
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PROJECT REFERENCE NO. U-2579AB	SHEET NO. 2B-5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

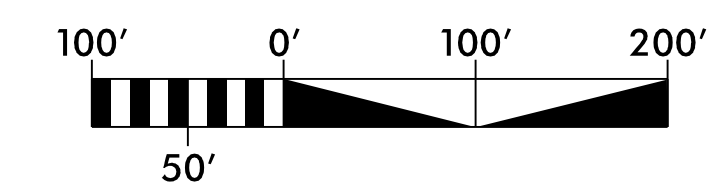
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N.C.B.E.L.S. License Number: F-0116



BEGIN CONSTRUCTION
-Y4DET- Sta. 10+27.15 (60.54' RT)

END CONSTRUCTION
-Y4DET- Sta. 33+28.89 (14.00' RT)

DETAIL FOR KERNERSVILLE RD ON-SITE DETOUR (-Y4DET-)



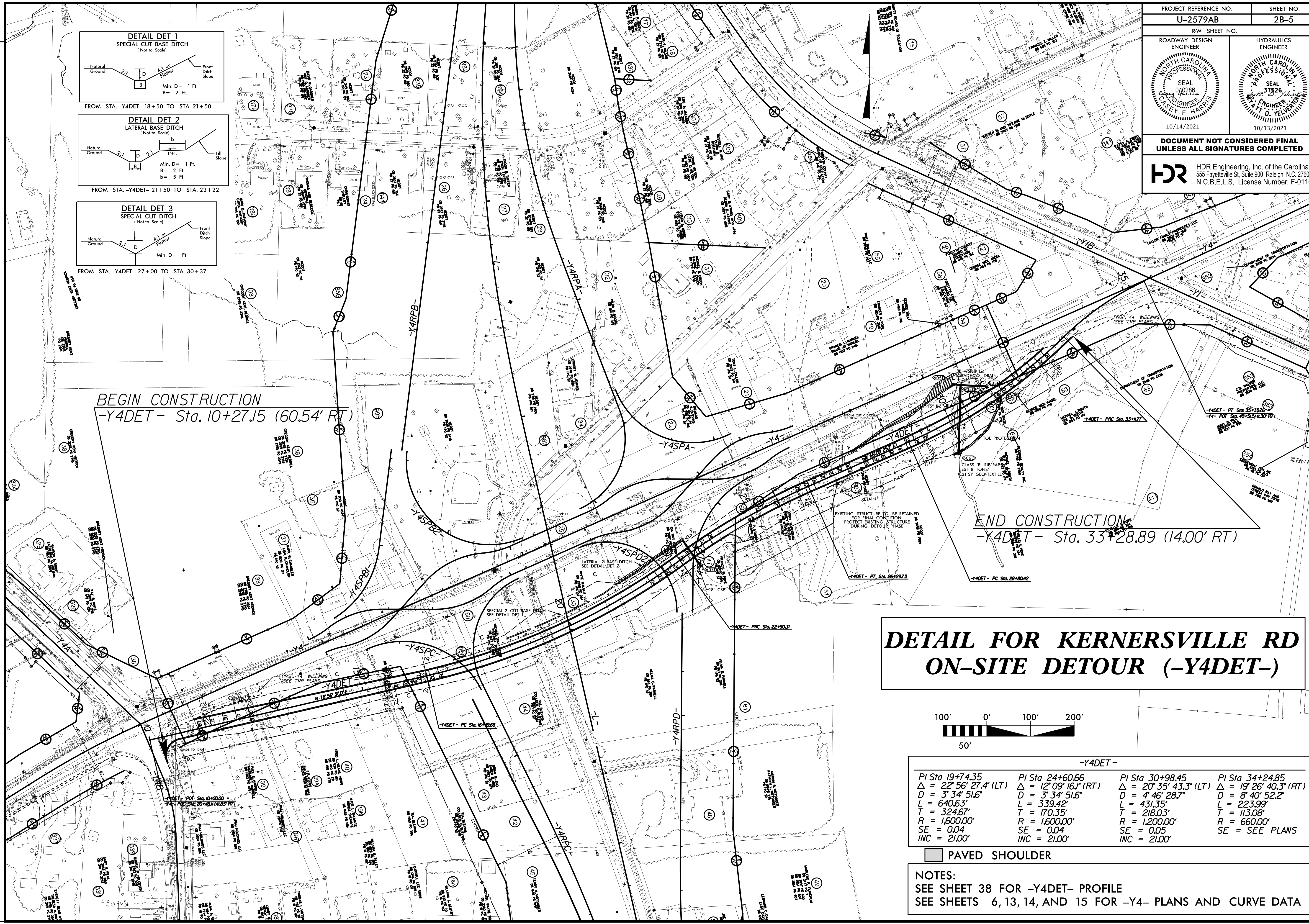
-Y4DET-

PI Sta 19+74.35 $\Delta = 22^\circ 56' 27.4"$ (LT) D = 3' 34" 51.6" L = 640.63' T = 324.67' R = 1,600.00' SE = 0.04 INC = 21.00'	PI Sta 24+60.66 $\Delta = 12^\circ 09' 16.1"$ (RT) D = 3' 34" 51.6" L = 339.42' T = 170.35' R = 1,600.00' SE = 0.04 INC = 21.00'	PI Sta 30+98.45 $\Delta = 20^\circ 35' 43.3"$ (LT) D = 4' 46" 28.7" L = 431.35' T = 218.03' R = 1,200.00' SE = 0.05 INC = 21.00'	PI Sta 34+24.85 $\Delta = 19^\circ 26' 40.3"$ (RT) D = 8' 40" 52.2" L = 223.99' T = 113.08' R = 660.00' SE = SEE PLANS INC = SEE PLANS
---	---	---	---

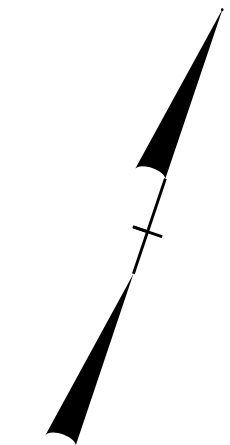
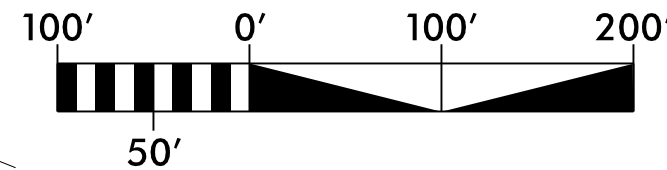
PAVED SHOULDER

NOTES:
SEE SHEET 38 FOR -Y4DET- PROFILE
SEE SHEETS 6, 13, 14, AND 15 FOR -Y4- PLANS AND CURVE DATA

REVISIONS
 ROW REV. - DECEMBER 4, 2020 - PUE ADJUSTED ON PARCELS 39, 39A, 40, 41, 42, 44, 46, 50, 51, 53, 63, 353, & 993. CEH.
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 USER: SPEREIRA
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 TIME: 1:57:31 PM
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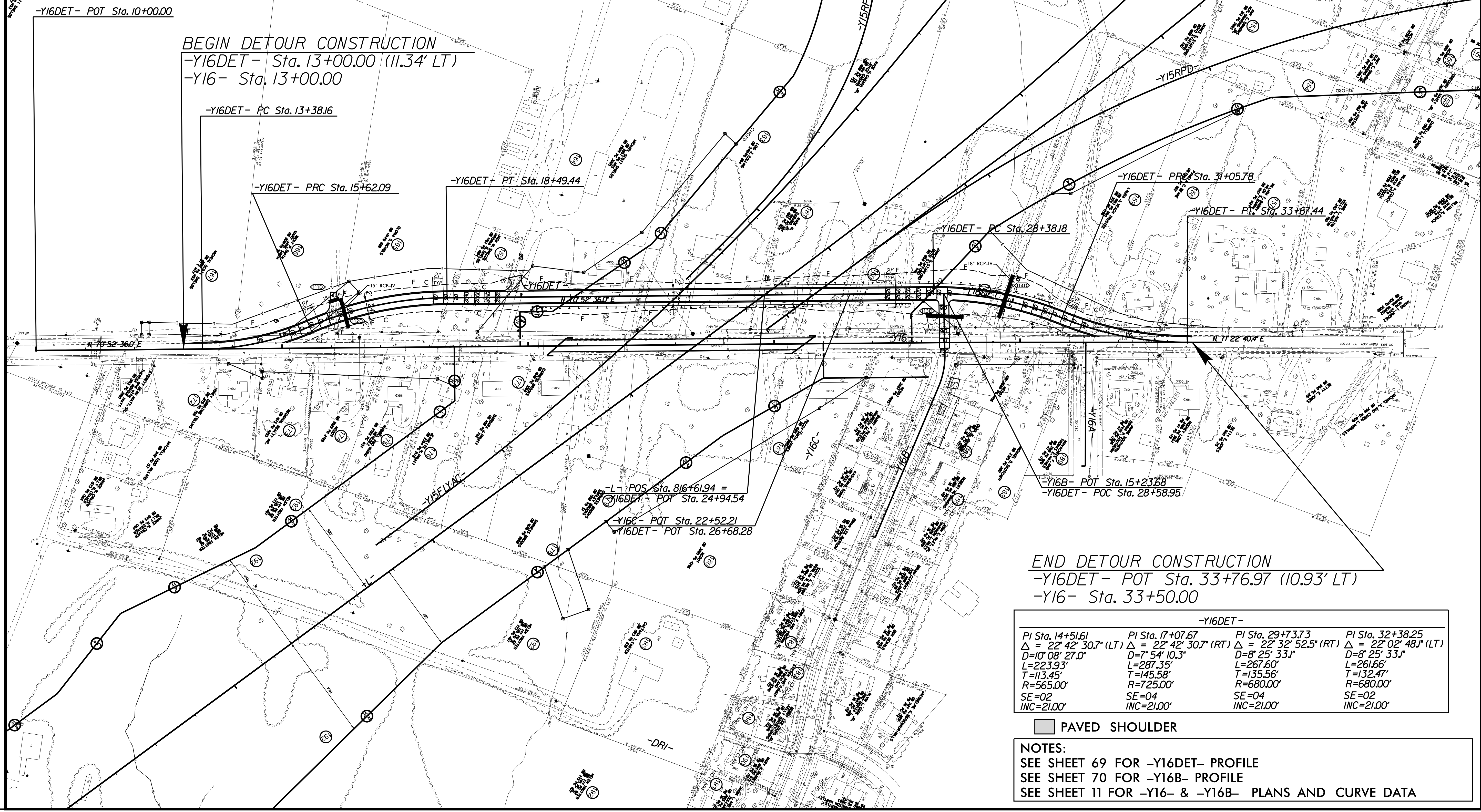
DETAIL FOR GLENN HI RD ON-SITE DETOUR (-Y16DET-)



PROJECT REFERENCE NO. U-2579AB	SHEET NO. 2B-6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 040288 C. JOSEY, E. HARRIS	HYDRAULICS ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 37326 A. T. D. YELDER
10/14/2021	10/13/2021

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N.C.B.E.L.S. License Number: F-0116



BEGIN DETOUR CONSTRUCTION
 -Y16DET- Sta. 13+00.00 (11.34' LT)
 -Y16- Sta. 13+00.00

END DETOUR CONSTRUCTION
 -Y16DET- POT Sta. 33+76.97 (10.93' LT)
 -Y16- Sta. 33+50.00

-Y16DET-			
PI Sta. 14+51.61	PI Sta. 17+07.67	PI Sta. 29+73.73	PI Sta. 32+38.25
$\Delta = 22^\circ 42' 30.7''$ (LT)	$\Delta = 22^\circ 42' 30.7''$ (RT)	$\Delta = 22^\circ 32' 52.5''$ (RT)	$\Delta = 22^\circ 02' 48.1''$ (LT)
D=10' 08" 27.0"	D=7' 54" 10.3"	D=8' 25" 33.1"	D=8' 25" 33.1"
L=223.93'	L=287.35'	L=267.60'	L=261.66'
T=113.45'	T=145.58'	T=135.56'	T=132.47'
R=565.00'	R=725.00'	R=680.00'	R=680.00'
SE=02	SE=04	SE=04	SE=02
INC=21.00'	INC=21.00'	INC=21.00'	INC=21.00'

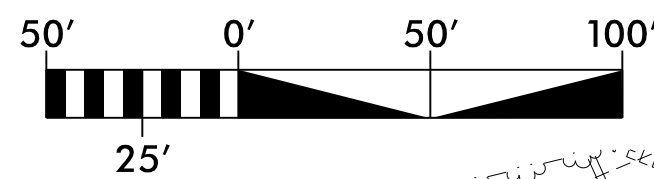
PAVED SHOULDER

NOTES:
 SEE SHEET 69 FOR -Y16DET- PROFILE
 SEE SHEET 70 FOR -Y16B- PROFILE
 SEE SHEET 11 FOR -Y16- & -Y16B- PLANS AND CURVE DATA

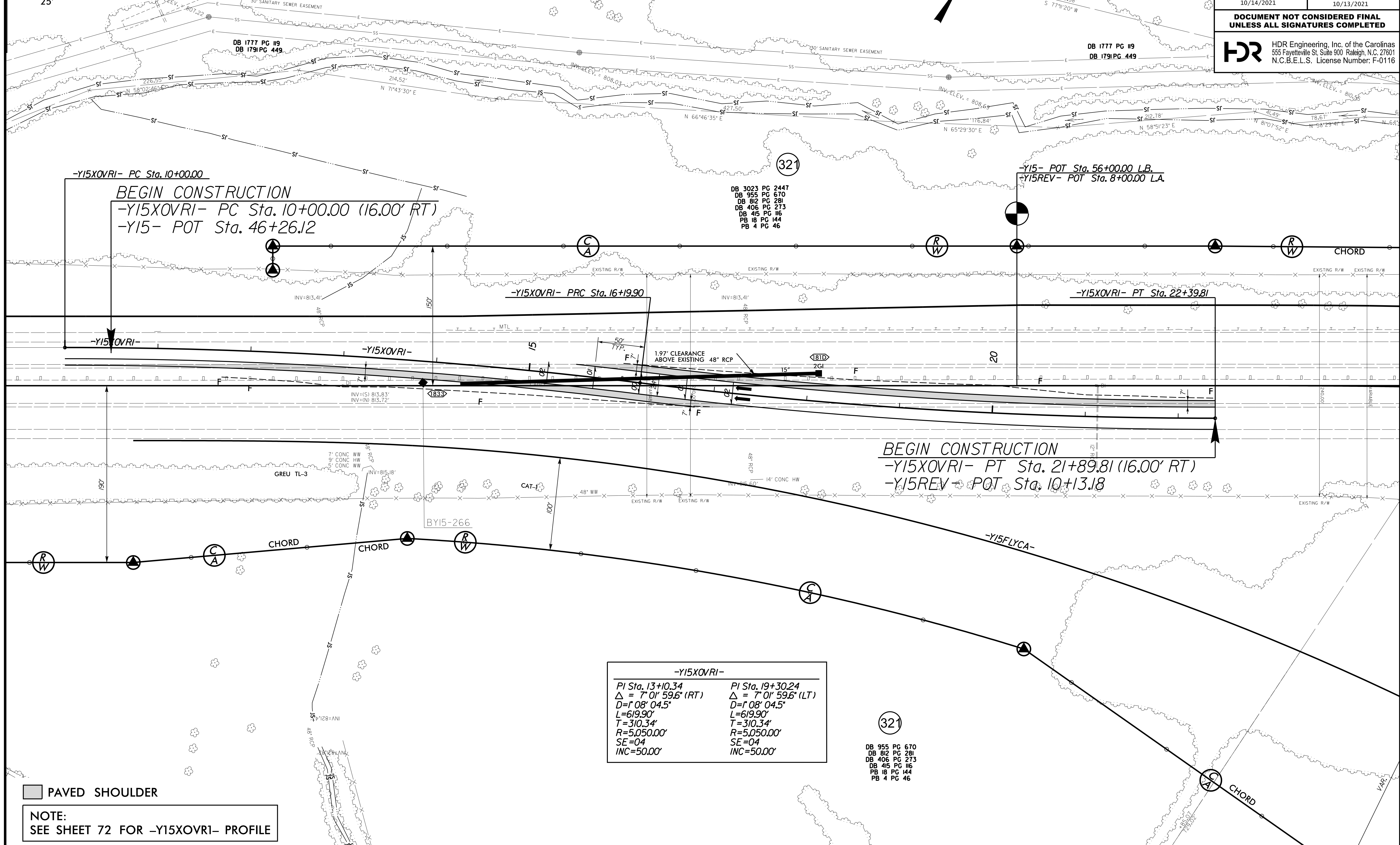
PLOT DRIVER: NCDOT_color_eng_50.plt
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 DATE: 8/27/2021
 TIME: 1:57:45 PM
 FILE: \

REVISIONS
 ROW REV. - FEBRUARY 8, 2019 - REVISED TCE ON PARCELS 157 AND 158 TO AVOID SEPTIC TANK. SMP

DETAIL FOR -Y15XOVRI- ON-SITE DETOUR



PROJECT REFERENCE NO. U-2579AB	SHEET NO. 2B-7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER 	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
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BEGIN CONSTRUCTION
 -Y15XOVRI- PC Sta. 10+00.00 (16.00' RT)
 -Y15- POT Sta. 46+26.12

BEGIN CONSTRUCTION
 -Y15XOVRI- PT Sta. 21+89.81 (16.00' RT)
 -Y15REV- POT Sta. 10+13.18

-Y15XOVRI-	
PI Sta. 13+10.34	PI Sta. 19+30.24
$\Delta = 7^\circ 01' 59.6''$ (RT)	$\Delta = 7^\circ 01' 59.6''$ (LT)
D=1' 08' 04.5"	D=1' 08' 04.5"
L=619.90'	L=619.90'
T=310.34'	T=310.34'
R=5050.00'	R=5050.00'
SE=04	SE=04
INC=50.00'	INC=50.00'

PAVED SHOULDER

NOTE:
SEE SHEET 72 FOR -Y15XOVRI- PROFILE

REVISIONS

PLOT DRIVER: NCDOT_color_eng_50.plt
 USER: SPEREIRA
 FILE: \

PENTABLE: NCDOT_pshpfl_conventional.tbl
 DATE: 8/27/2021
 TIME: 1:57:59 PM

DETAIL FOR -Y15XOVR2- ON-SITE DETOUR



259
DAVID J. SMITH
BETTY C. SMITH
DB 1009 PG 475

-Y15XOVR2- 269
PI Sta. 12+97.80 Δ = 6° 44' 58.5" (LT) L=594.90' T=297.80' R=5,050.00' SE=04 INC=50.00'
PI Sta. 18+92.70 Δ = 6° 44' 58.5" (RT) L=594.90' T=297.80' R=5,050.00' SE=04 INC=50.00'

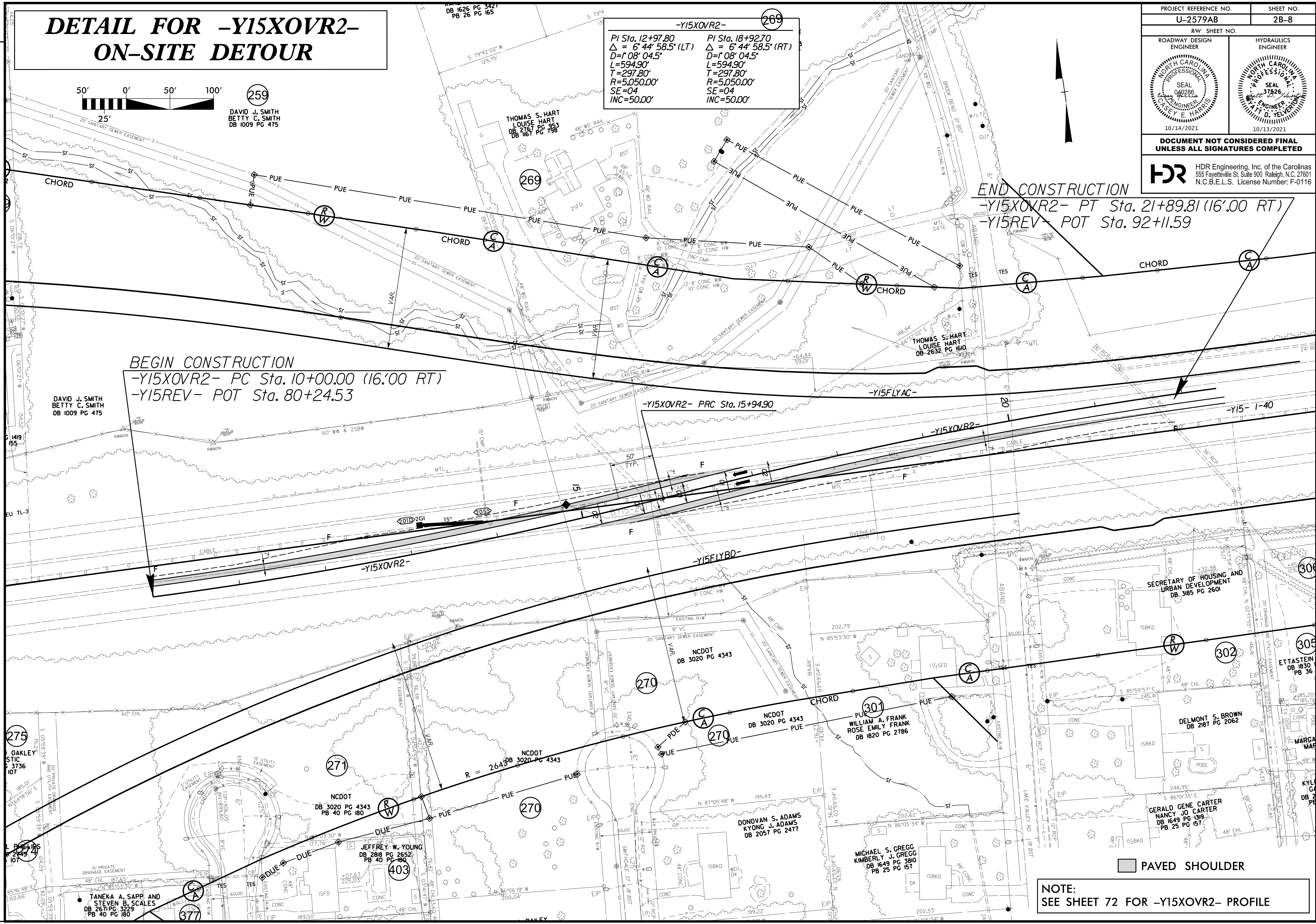
PROJECT REFERENCE NO. U-2579AB	SHEET NO. 2B-8
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
10/14/2021	10/13/2021

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N.C.B.E.L.S. License Number: F-0116

END CONSTRUCTION
-Y15XOVR2- PT Sta. 21+89.81 (16'.00 RT)
-Y15REV- POT Sta. 92+11.59

BEGIN CONSTRUCTION
-Y15XOVR2- PC Sta. 10+00.00 (16'.00 RT)
-Y15REV- POT Sta. 80+24.53



PAVED SHOULDER

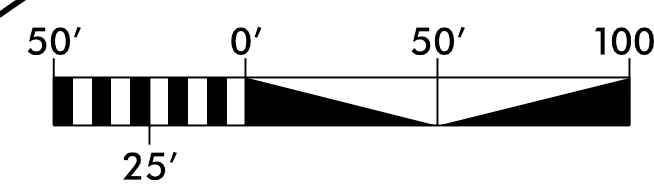
NOTE:
SEE SHEET 72 FOR -Y15XOVR2- PROFILE

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TIME: 1:58:11 PM
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FILE: \

REVISIONS

DETAIL FOR -Y15XOVR3- ON-SITE DETOUR

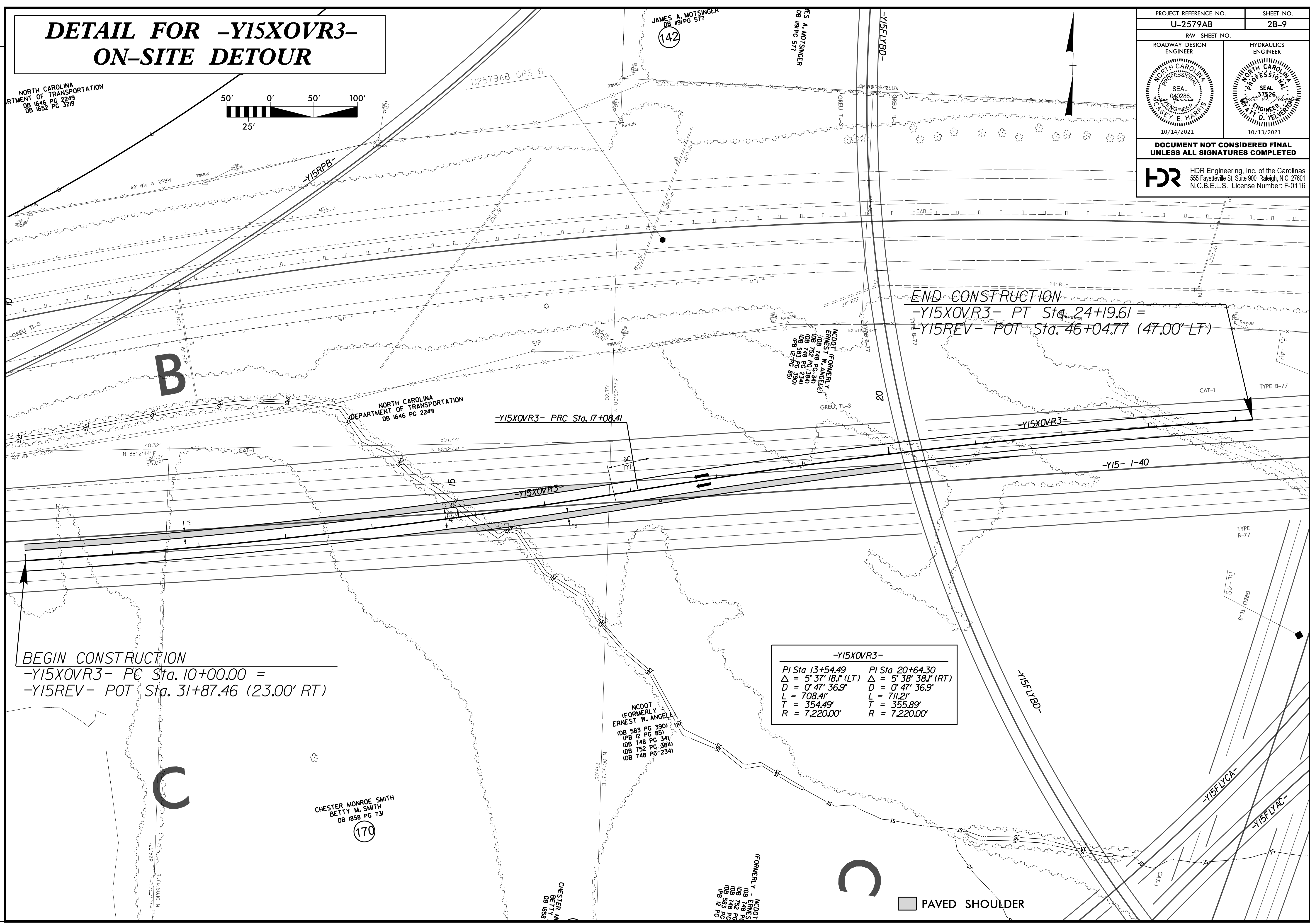
NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DB 1646 PG 2249
DB 1652 PG 3219



PROJECT REFERENCE NO. U-2579AB	SHEET NO. 2B-9
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
10/14/2021	10/13/2021

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UNLESS ALL SIGNATURES COMPLETED**

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N.C.B.E.L.S. License Number: F-0116



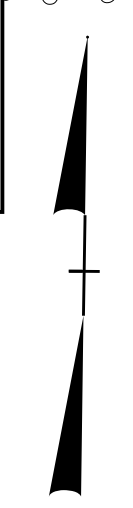
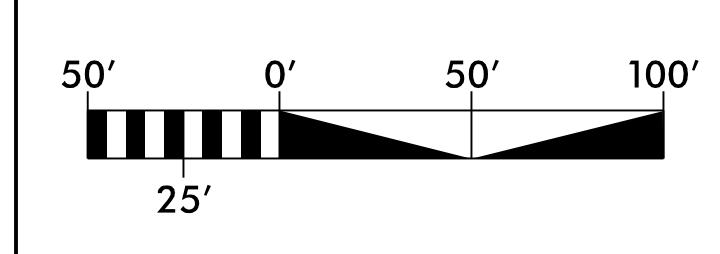
-Y15XOVR3-	
PI Sta 13+54.49	PI Sta 20+64.30
$\Delta = 5^\circ 37' 18.1''$ (LT)	$\Delta = 5^\circ 38' 38.1''$ (RT)
$D = 0^\circ 47' 36.9''$	$D = 0^\circ 47' 36.9''$
$L = 708.41'$	$L = 711.21'$
$T = 354.49'$	$T = 355.89'$
$R = 7,220.00'$	$R = 7,220.00'$

PAVED SHOULDER

REVISIONS

PLOT DRIVER: NCDOT_color_eng_50.plt
USER: SPEREIRA
DATE: 8/27/2021
TIME: 1:58:23 PM
FILE: \

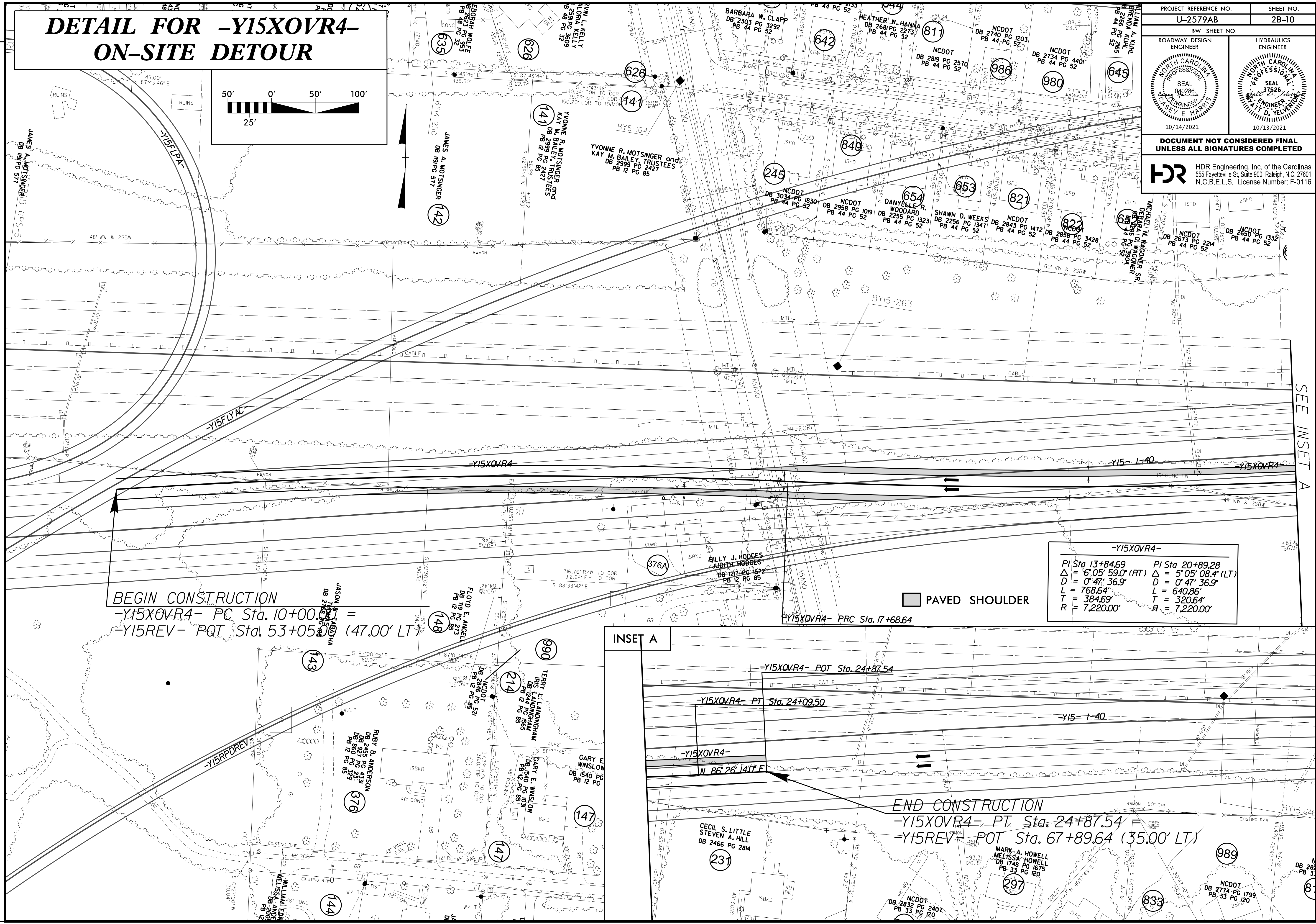
DETAIL FOR -Y15XOVR4- ON-SITE DETOUR



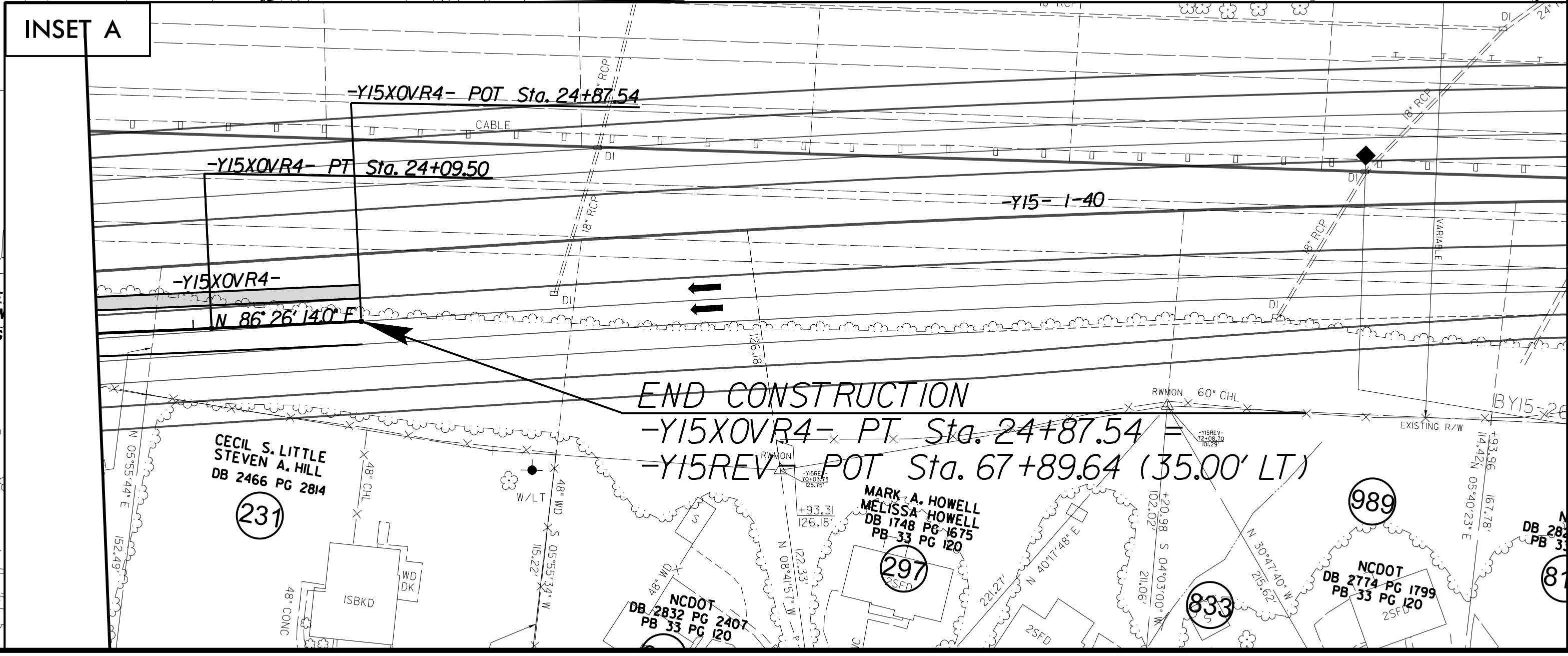
PROJECT REFERENCE NO. U-2579AB	SHEET NO. 2B-10
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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N.C.B.E.L.S. License Number: F-0116





-Y15XOVR4-	
PI Sta 13+84.69	PI Sta 20+89.28
$\Delta = 6^{\circ}05'59.0"$ (RT)	$\Delta = 5^{\circ}05'08.4"$ (LT)
D = 0'47'36.9"	D = 0'47'36.9"
L = 768.64'	L = 640.86'
T = 384.69'	T = 320.64'
R = 7,220.00'	R = 7,220.00'

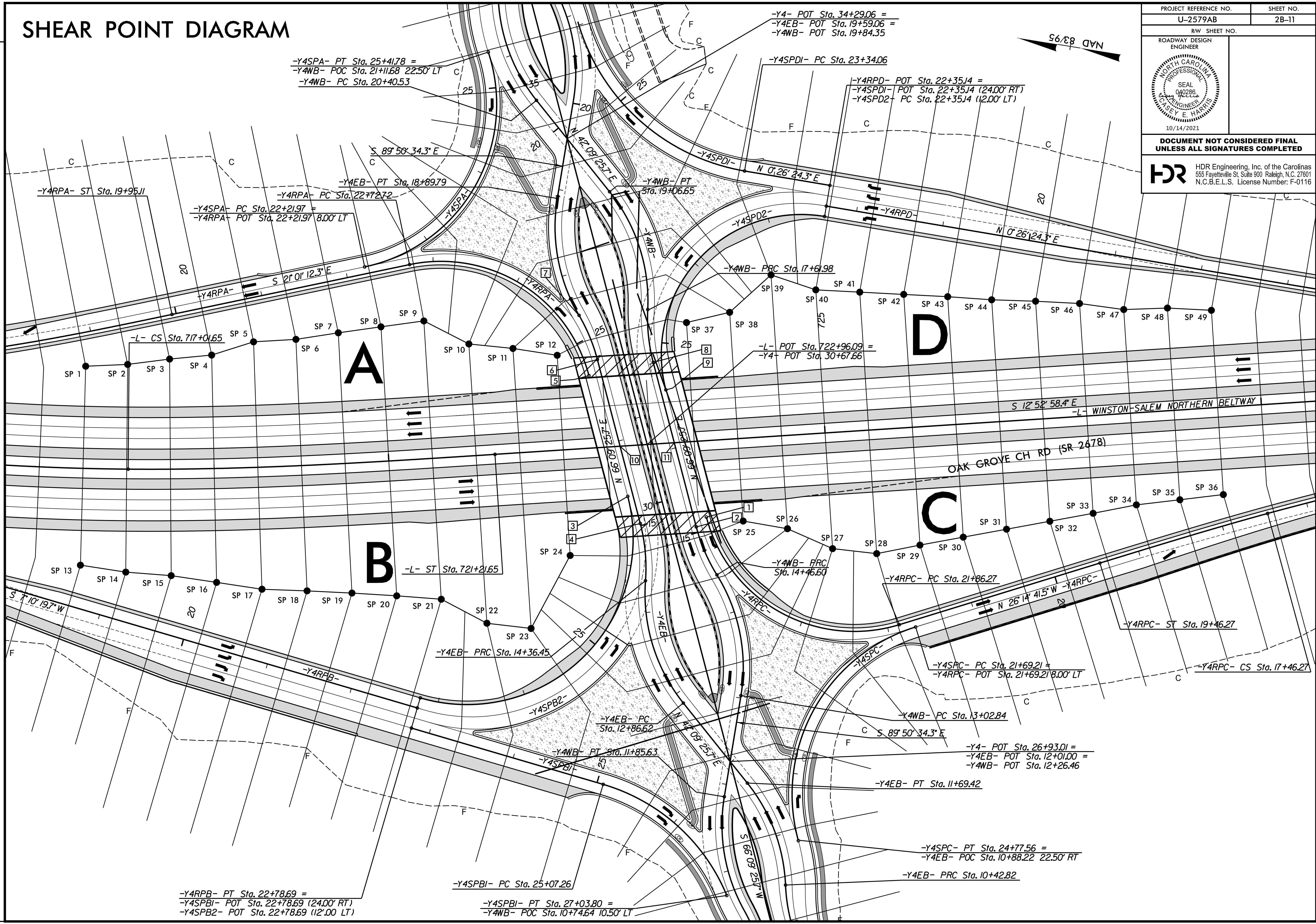


REVISIONS

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 DATE: 8/27/2021

SHEAR POINT DIAGRAM

PROJECT REFERENCE NO. U-2579AB	SHEET NO. 2B-11
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	
	
10/14/2021	
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NAD 83 95

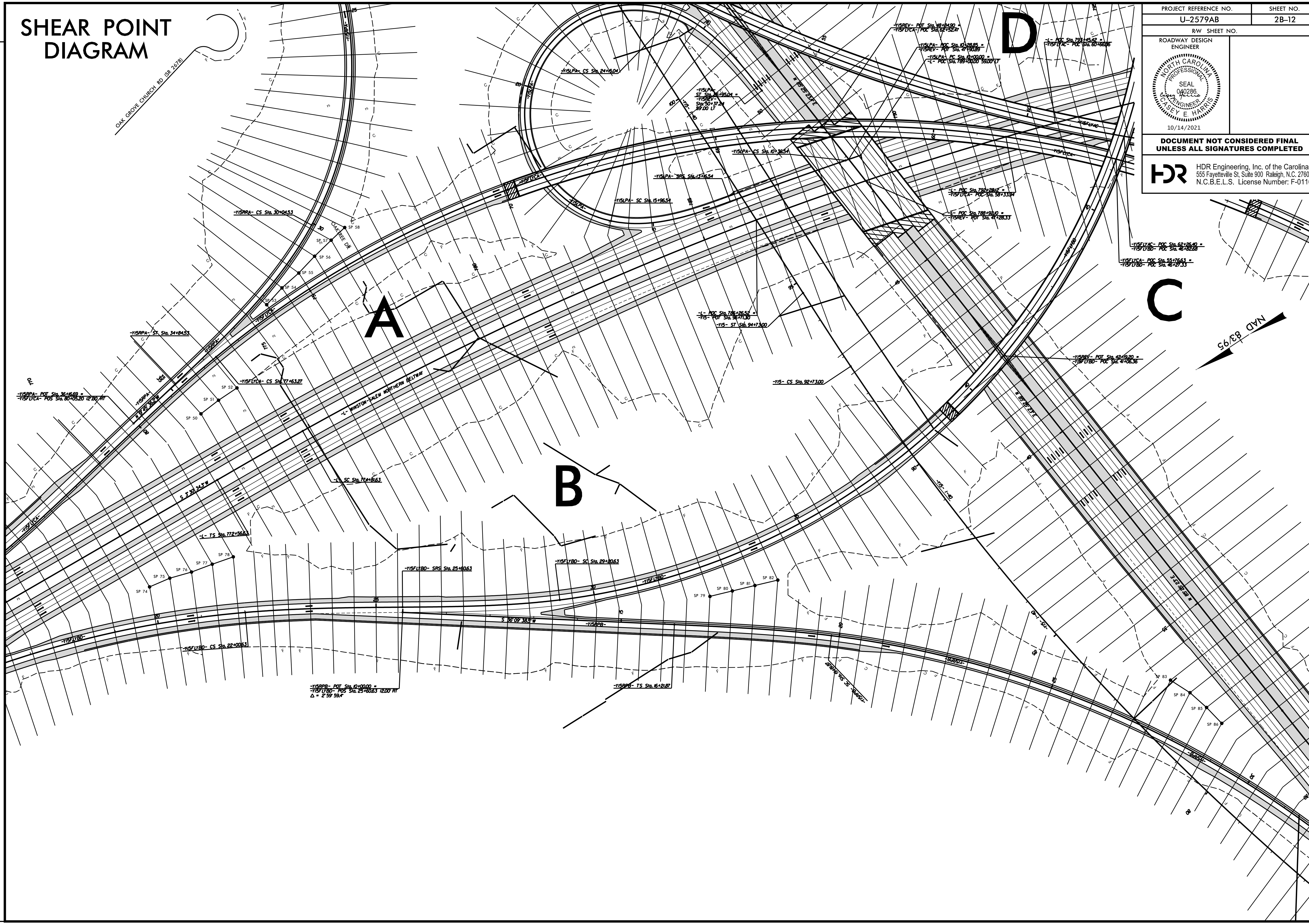
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REVISIONS

-Y4RPB- PT Sta. 22+78.69 =
 -Y4SPBI- POT Sta. 22+78.69 (24.00' RT)
 -Y4SPB2- POT Sta. 22+78.69 (12' 00' LT)

-Y4SPBI- PC Sta. 25+07.26
 -Y4SPBI- PT Sta. 27+03.80 =
 -Y4WB- POC Sta. 10+74.64 10.50' LT

SHEAR POINT DIAGRAM





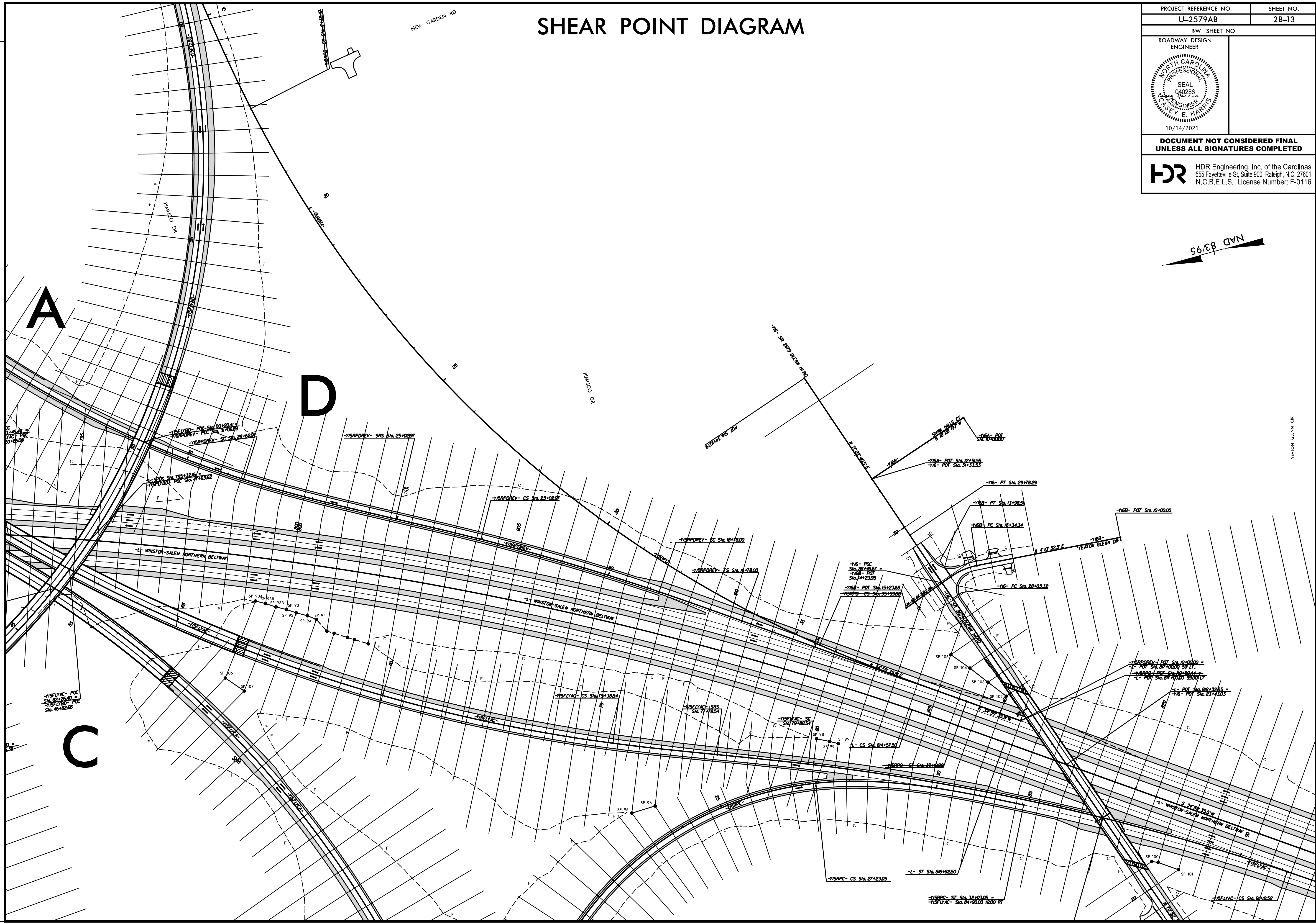
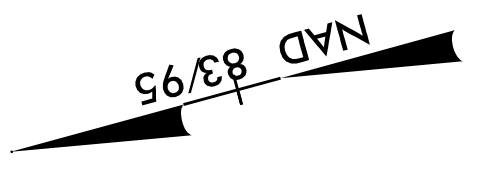
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RW SHEET NO.	
ROADWAY DESIGN ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
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REVISIONS

PLOT DRIVER: NCDOT_pdf_color_eng_50.plt
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 DATE: 7/13/2021

SHEAR POINT DIAGRAM

PROJECT REFERENCE NO. U-2579AB	SHEET NO. 2B-13
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	
	
10/14/2021	
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 HDR Engineering, Inc. of the Carolinas 555 Fayetteville St. Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-01116	



A

D

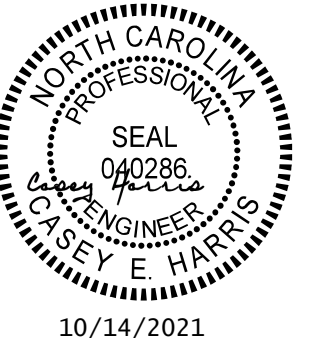

C

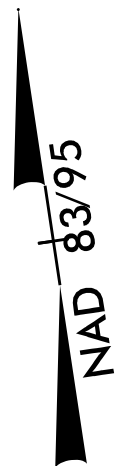
REVISIONS

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 DATE: 7/13/2021
 TIME: 12:45:43 PM

SHEAR POINT DIAGRAM

PROJECT REFERENCE NO. U-2579AB	SHEET NO. 2B-14
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	
	
10/14/2021	
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 HDR Engineering, Inc. of the Carolinas 555 Fayetteville St, Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	





REVISIONS

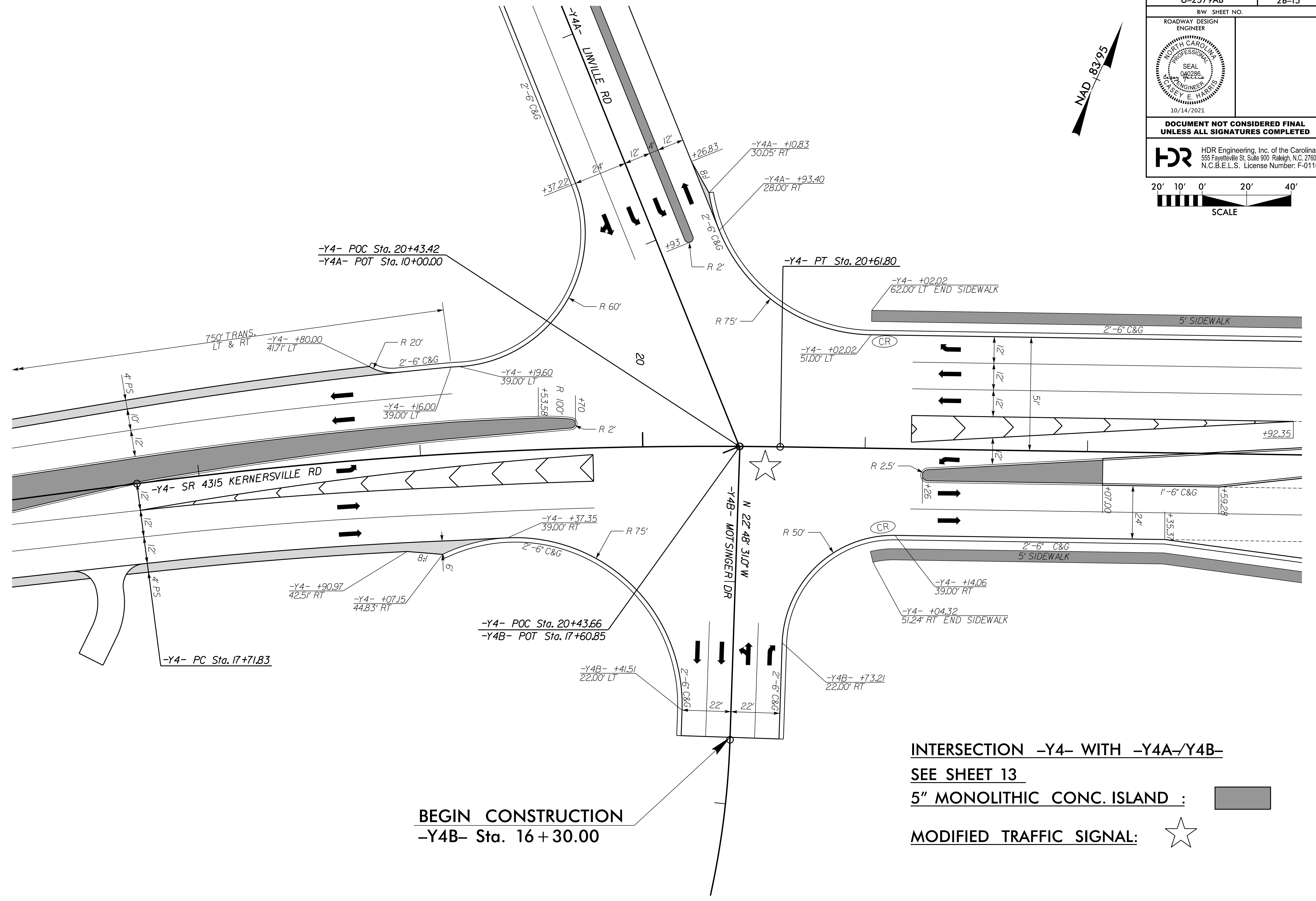
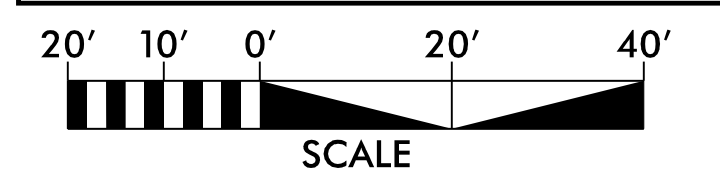
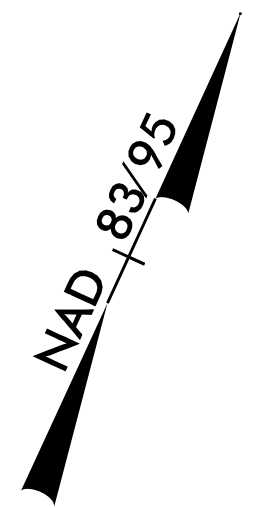
A

D


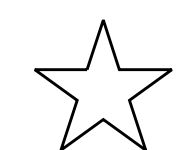
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 TIME: 12:45:56 PM
 DATE: 7/13/2021

PROJECT REFERENCE NO. U-2579AB	SHEET NO. 2B-15
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	
	
10/14/2021	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
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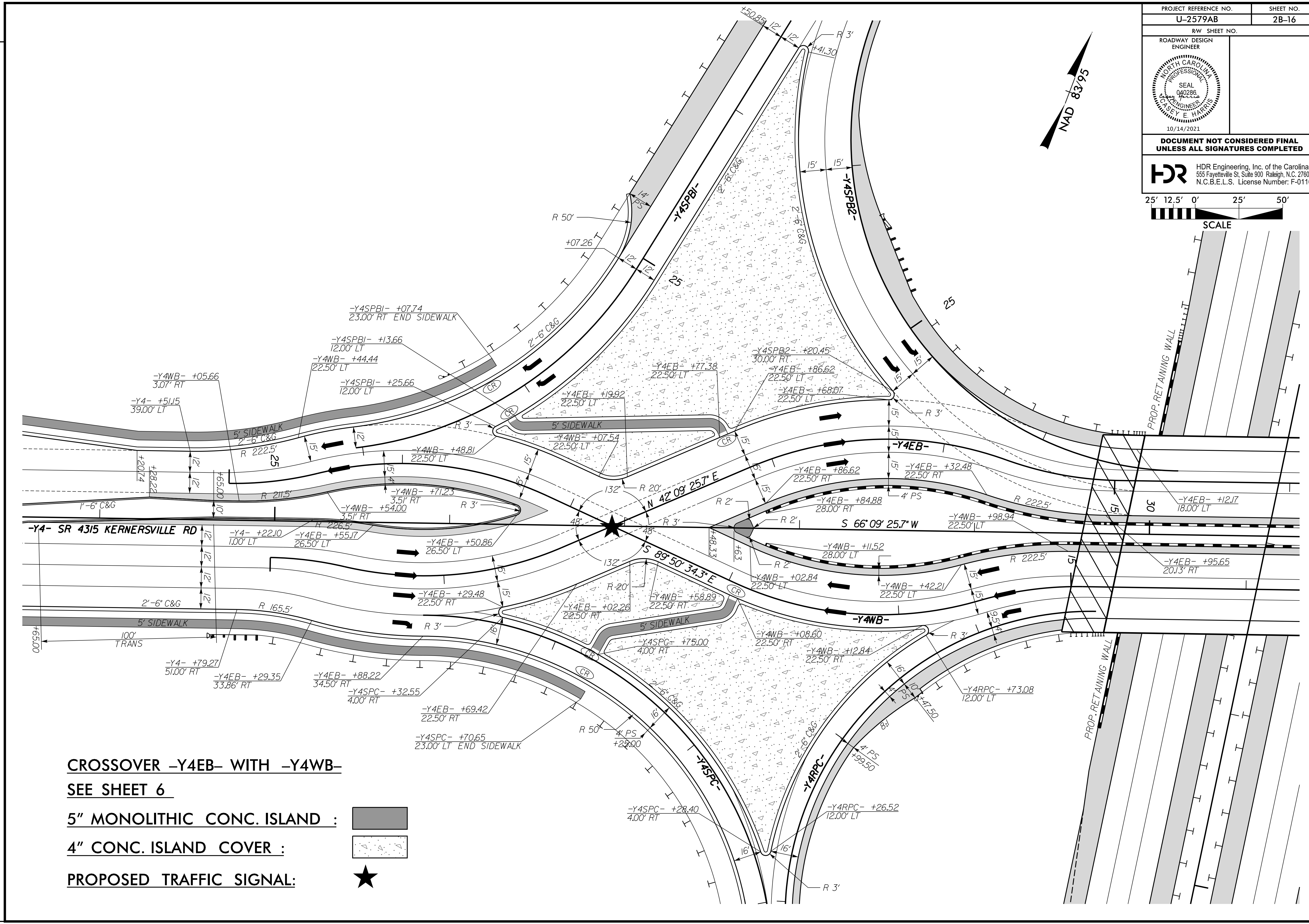
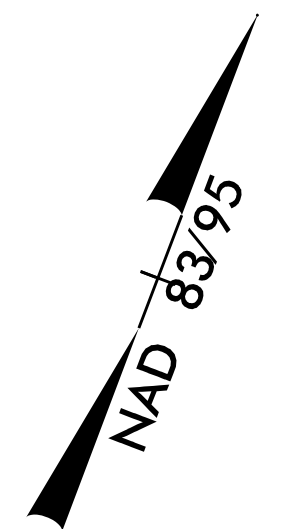
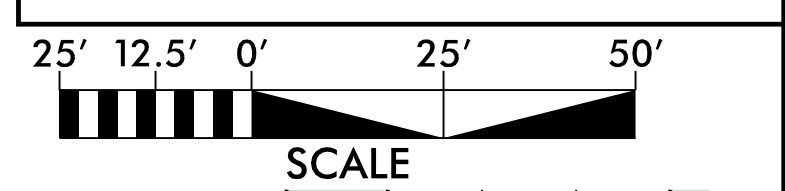
BEGIN CONSTRUCTION
 -Y4B- Sta. 16 + 30.00

INTERSECTION -Y4- WITH -Y4A-/Y4B-
SEE SHEET 13
5" MONOLITHIC CONC. ISLAND : 
MODIFIED TRAFFIC SIGNAL: 

REVISIONS

PLOT DRIVER: NCDOT_color_eng_50.plt
 USER: CHARRIS
 FILE: NCDOT\NCDOT-U2579AB\6.0.CAD.BTM\6.2.Work\In_Progress\U-2579AB\Roadway\Prj\U2579ab_rdy_psh_02B-15.dgn
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PROJECT REFERENCE NO. U-2579AB	SHEET NO. 2B-16
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



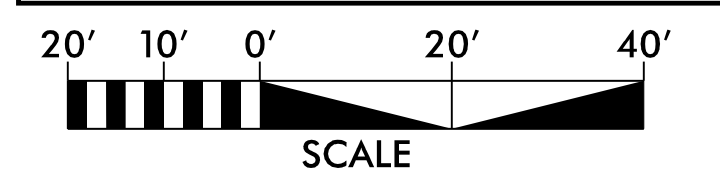
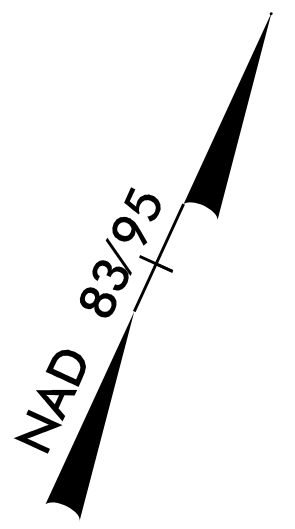
REVISIONS

**CROSSOVER -Y4EB- WITH -Y4WB-
SEE SHEET 6**

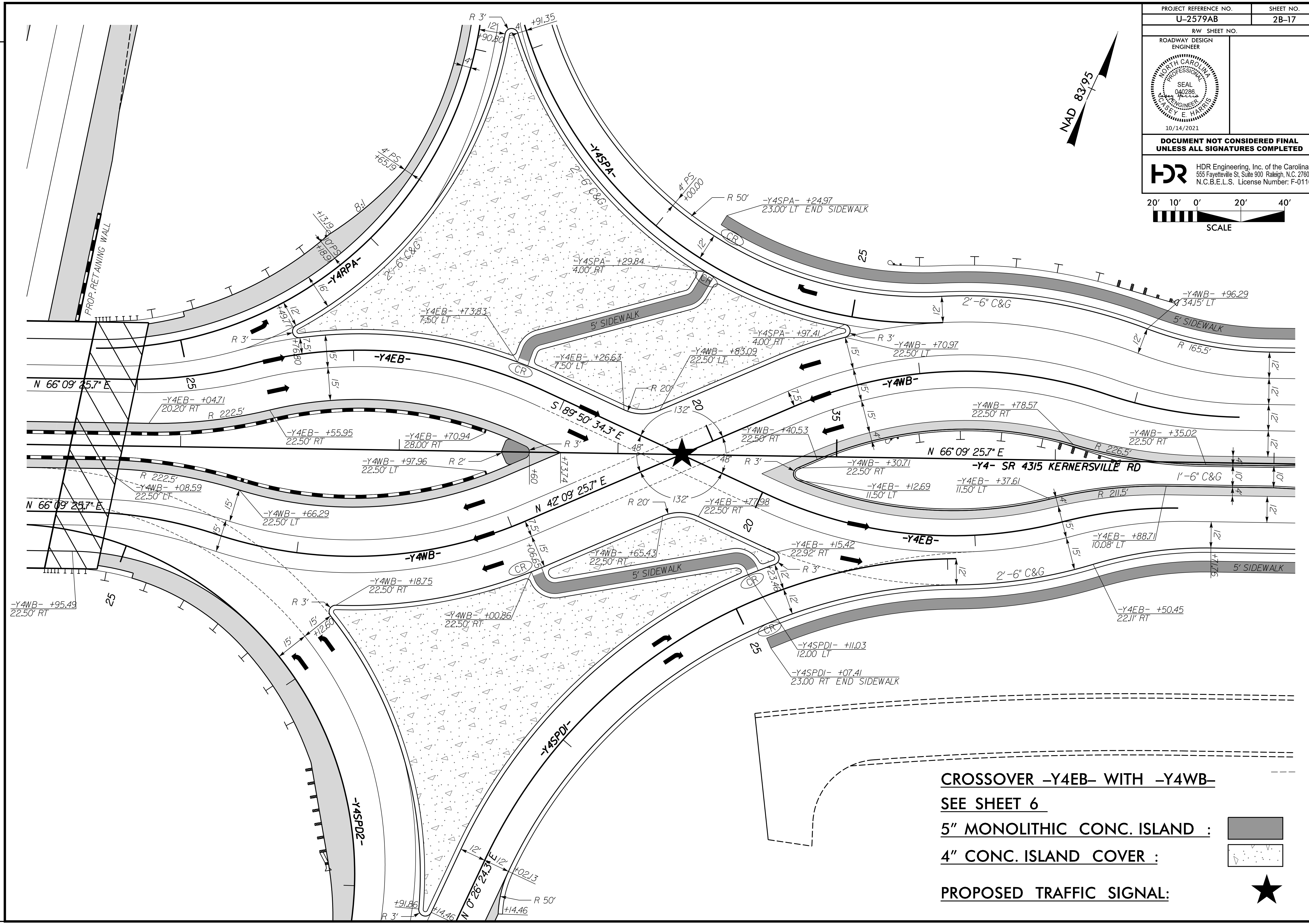
- 5" MONOLITHIC CONC. ISLAND :**
- 4" CONC. ISLAND COVER :**
- PROPOSED TRAFFIC SIGNAL:**

PLOT DRIVER: NCDOT_pdf_color_eng_50.plt
 USER: SPEREIRA
 DATE: 9/15/2021
 TIME: 11:21:04 AM
 FILE: \

PROJECT REFERENCE NO. U-2579AB	SHEET NO. 2B-17
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	
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REVISIONS

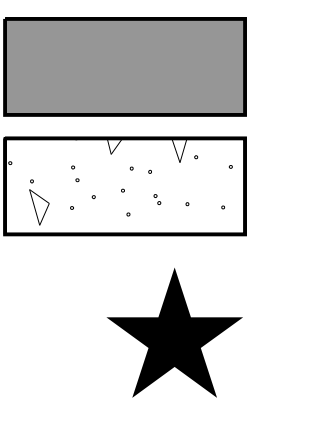


**CROSSOVER -Y4EB- WITH -Y4WB-
SEE SHEET 6**

5" MONOLITHIC CONC. ISLAND :

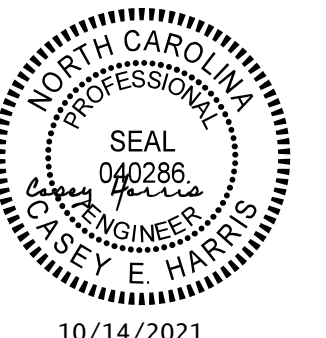

4" CONC. ISLAND COVER :

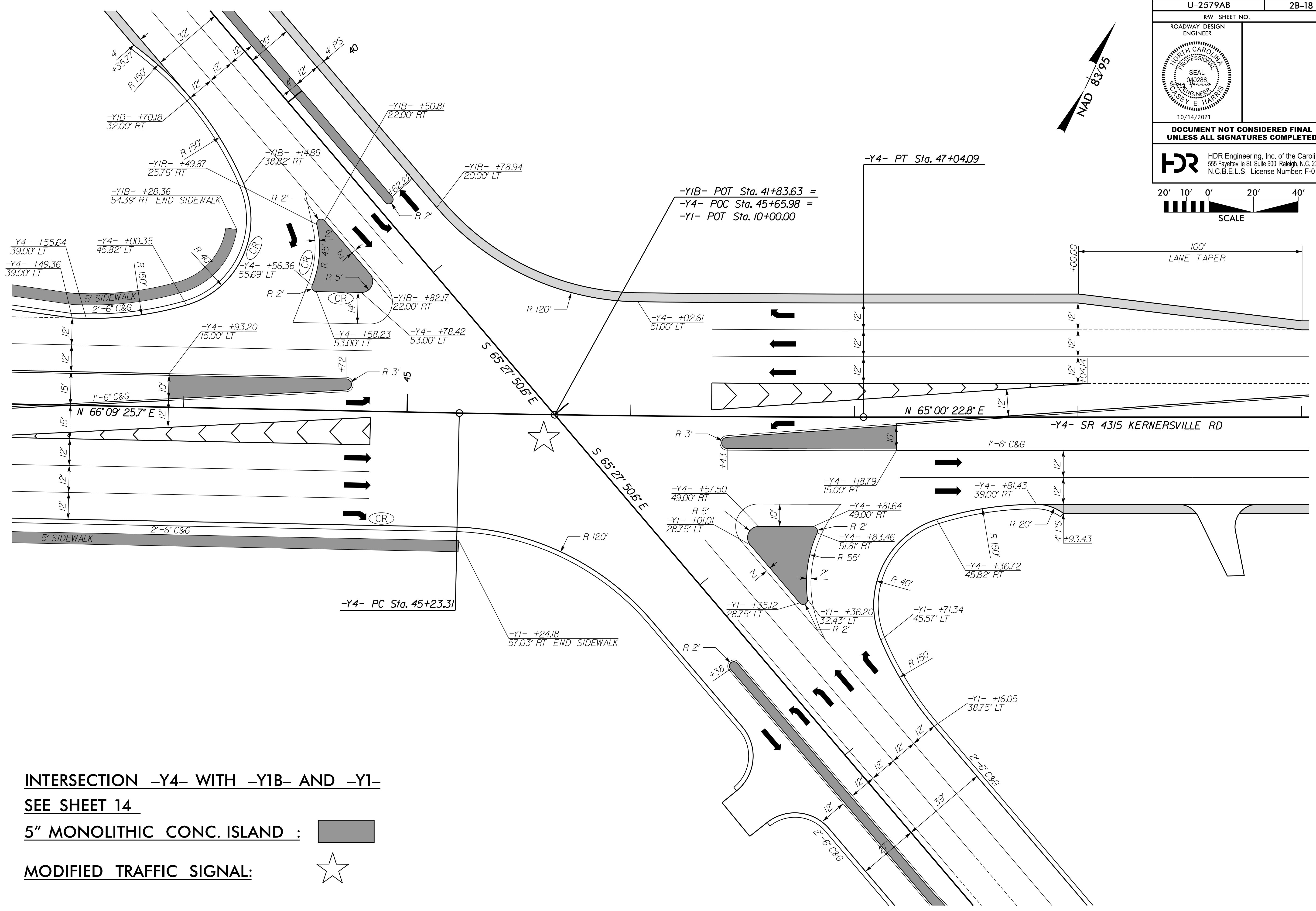
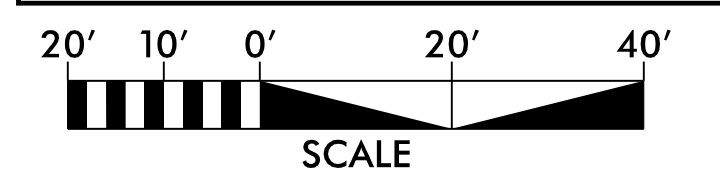
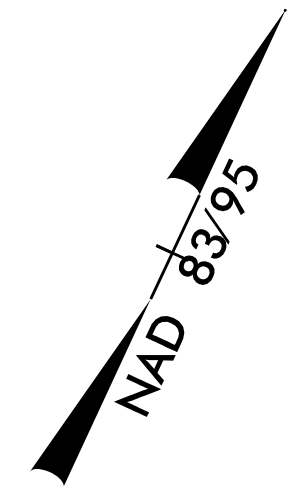
PROPOSED TRAFFIC SIGNAL:



PLOT DRIVER: NCDOT_color_eng_50.plt
 USER: SPEREIRA
 FILE: \

PENTABLE: NCDOT_pshpfl_conventional.tbl
 DATE: 9/15/2021
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PROJECT REFERENCE NO. U-2579AB	SHEET NO. 2B-18
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	
	
10/14/2021	
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INTERSECTION -Y4- WITH -Y1B- AND -Y1-

SEE SHEET 14

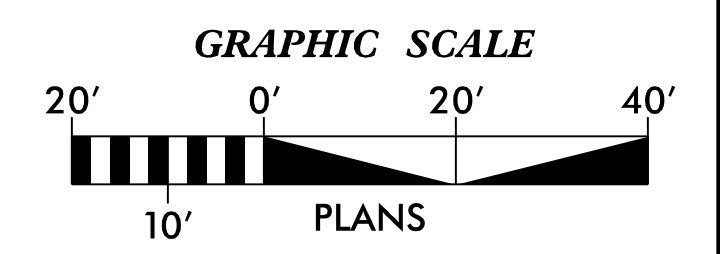
5" MONOLITHIC CONC. ISLAND : 

MODIFIED TRAFFIC SIGNAL: 

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 USER: CHARRIS
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REVISIONS

PROJECT REFERENCE NO. U-2579AB	SHEET NO. 2B-19
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	
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-Y1-

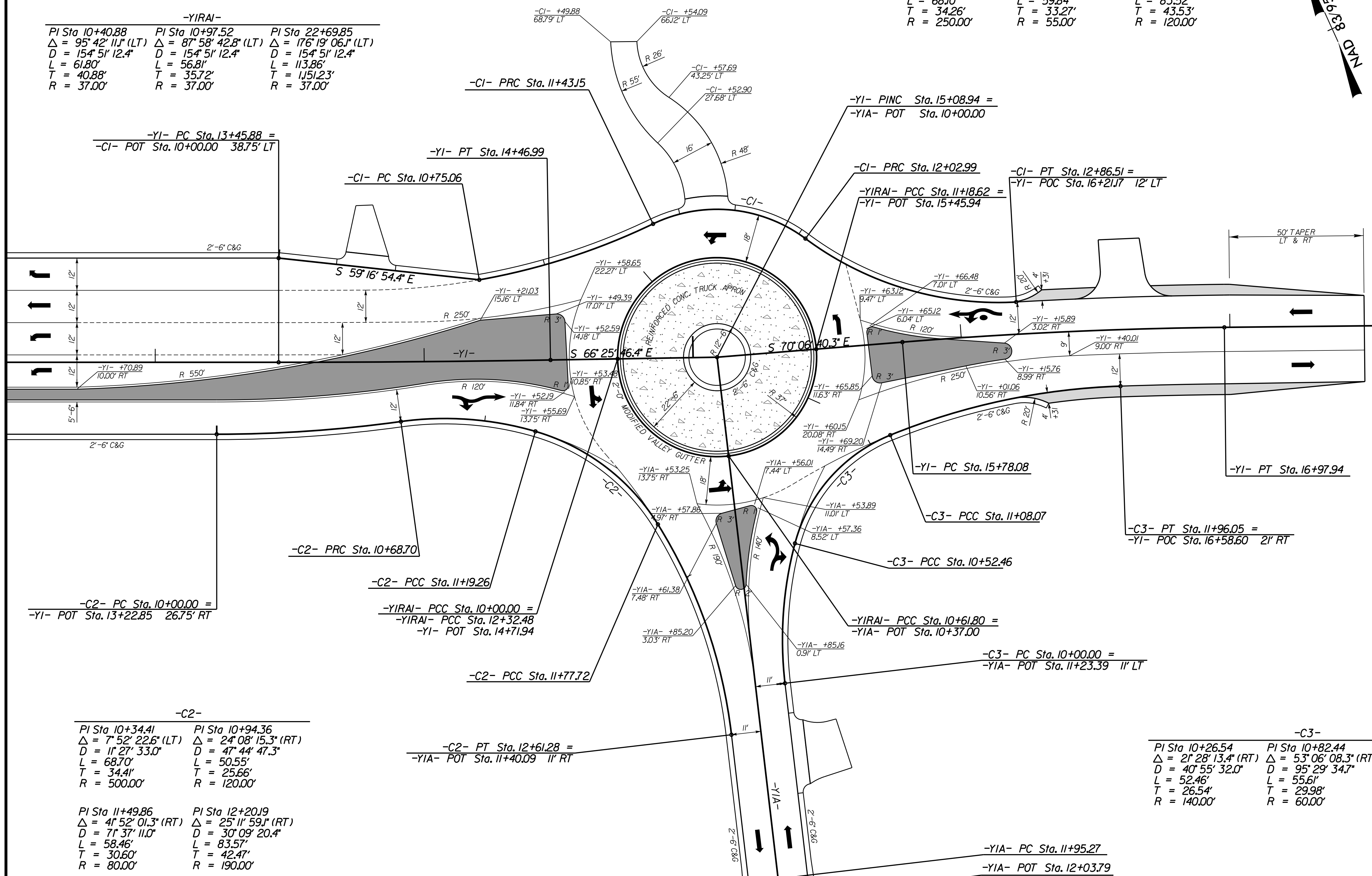
PI Sta 13+96.44 Δ = 0° 57' 55.9" (LT) D = 0° 57' 17.7" L = 101.1' T = 50.56' R = 6,000.00'	PI Sta 16+38.04 Δ = 4° 02' 22.5" (RT) D = 3° 22' 13.2" L = 119.86' T = 59.95' R = 1,700.00'
---	--

-Y1RAI-

PI Sta 10+40.88 Δ = 95° 42' 11.2" (LT) D = 154° 51' 12.4" L = 61.80' T = 40.88' R = 37.00'	PI Sta 10+97.52 Δ = 87° 58' 42.8" (LT) D = 154° 51' 12.4" L = 56.81' T = 35.72' R = 37.00'	PI Sta 22+69.85 Δ = 176° 19' 06.1" (LT) D = 154° 51' 12.4" L = 113.86' T = 115.123' R = 37.00'
---	---	---

-C1-

PI Sta 11+09.32 Δ = 15° 36' 23.1" (LT) D = 22° 55' 05.9" L = 68.10' T = 34.26' R = 250.00'	PI Sta 11+76.42 Δ = 62° 20' 05.5" (RT) D = 104° 10' 26.9" L = 59.84' T = 33.27' R = 55.00'	PI Sta 12+46.52 Δ = 39° 52' 38.6" (LT) D = 47° 44' 47.3" L = 83.52' T = 43.53' R = 120.00'
---	---	---



-Y1- PC Sta. 13+45.88 =
-C1- POT Sta. 10+00.00 38.75' LT

-Y1- PT Sta. 14+46.99

-Y1- PINC Sta. 15+08.94 =
-Y1A- POT Sta. 10+00.00

-C1- PRC Sta. 12+02.99
-Y1RAI- PCC Sta. 11+18.62 =
-Y1- POT Sta. 15+45.94

-C1- PT Sta. 12+86.51 =
-Y1- POC Sta. 16+21.17 12' LT

2'-6" C&G

S 59° 16' 54.4" E

S 66° 25' 16.4" E

S 70° 06' 40.3" E

S 66° 04' 17.8" E -Y1-

-C2- PC Sta. 10+00.00 =
-Y1- POT Sta. 13+22.85 26.75' RT

-C2- PRC Sta. 10+68.70

-Y1RAI- PCC Sta. 10+00.00 =
-Y1RAI- PCC Sta. 12+32.48
-Y1- POT Sta. 14+71.94

-C2- PCC Sta. 11+77.72

-C2- PT Sta. 12+61.28 =
-Y1A- POT Sta. 11+40.09 11' RT

-C3- PCC Sta. 10+52.46

-Y1RAI- PCC Sta. 10+61.80 =
-Y1A- POT Sta. 10+37.00

-C3- PC Sta. 10+00.00 =
-Y1A- POT Sta. 11+23.39 11' LT

-C2-

PI Sta 10+34.41 Δ = 7° 52' 22.6" (LT) D = 11° 27' 33.0" L = 68.70' T = 34.41' R = 500.00'	PI Sta 10+94.36 Δ = 24° 08' 15.3" (RT) D = 47° 44' 47.3" L = 50.55' T = 25.66' R = 120.00'
--	---

PI Sta 11+49.86 Δ = 41° 52' 01.3" (RT) D = 71° 37' 11.0" L = 58.46' T = 30.60' R = 80.00'	PI Sta 12+20.19 Δ = 25° 11' 59.1" (RT) D = 30° 09' 20.4" L = 83.57' T = 42.47' R = 190.00'
--	---

-C3-

PI Sta 10+26.54 Δ = 21° 28' 13.4" (RT) D = 40° 55' 32.0" L = 52.46' T = 26.54' R = 140.00'	PI Sta 10+82.44 Δ = 53° 06' 08.3" (RT) D = 95° 29' 34.7" L = 55.61' T = 29.98' R = 60.00'	PI Sta 11+52.52 Δ = 20° 09' 44.5" (RT) D = 22° 55' 05.9" L = 87.97' T = 44.45' R = 250.00'
---	--	---

-Y1A- PC Sta. 11+95.27
-Y1A- POT Sta. 12+03.79

**INTERSECTION -Y1- WITH -Y1A-
SEE SHEET 14A**

5" MONOLITHIC CONC. ISLAND :

PAVED SHOULDER :

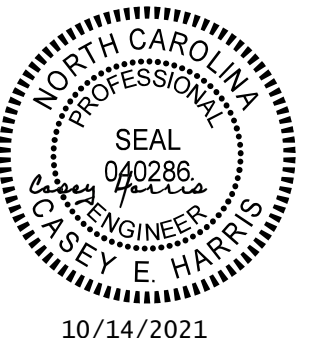

SEE SHEET 14A FOR ROADWAY PLAN
SEE SHEET 33 FOR -Y1- & -Y1A- PROFILES
SEE SHEET 33A FOR -Y1RAI-, -C1-, -C2- & -C3- PROFILES

PLOT DRIVER: NCDOT_color_eng_50.plt
 USER: SPEREIRA
 FILE: \

REVISIONS

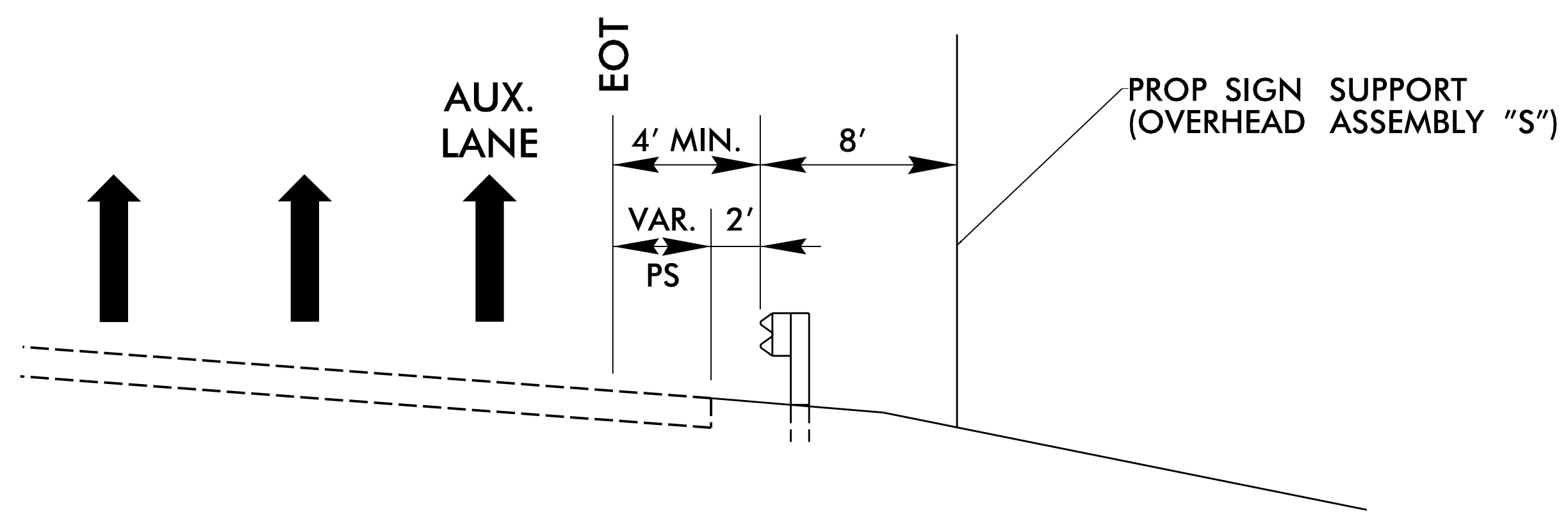
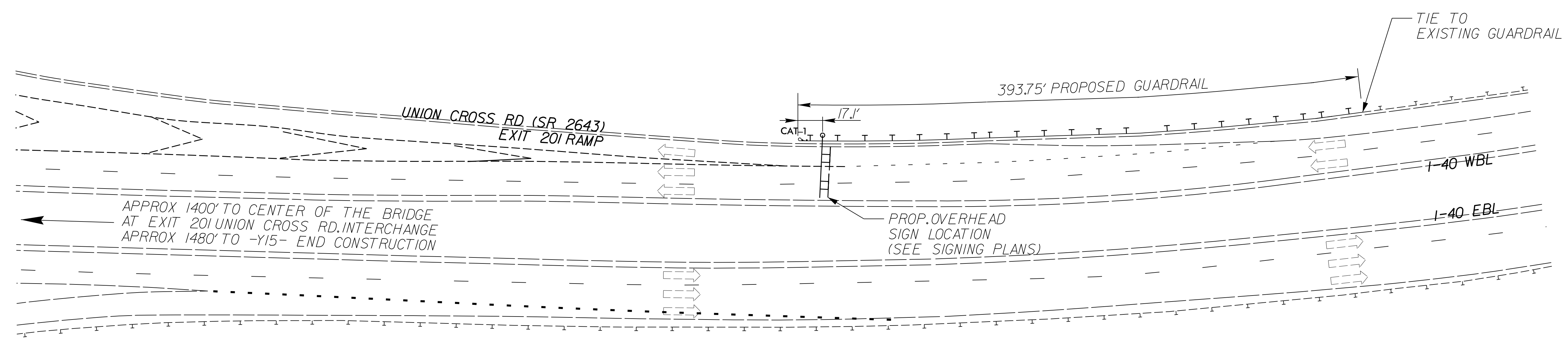
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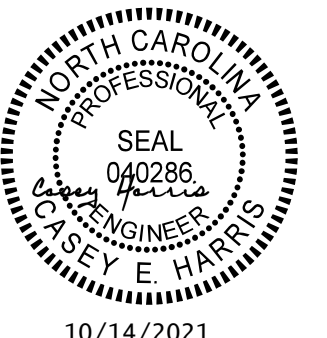

PROJECT REFERENCE NO. U-2579AB	SHEET NO. 2B-20
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	
	
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GUARDRAIL LOCATION DETAIL FOR OVERHEAD ASSEMBLY "S" (NOT TO SCALE)

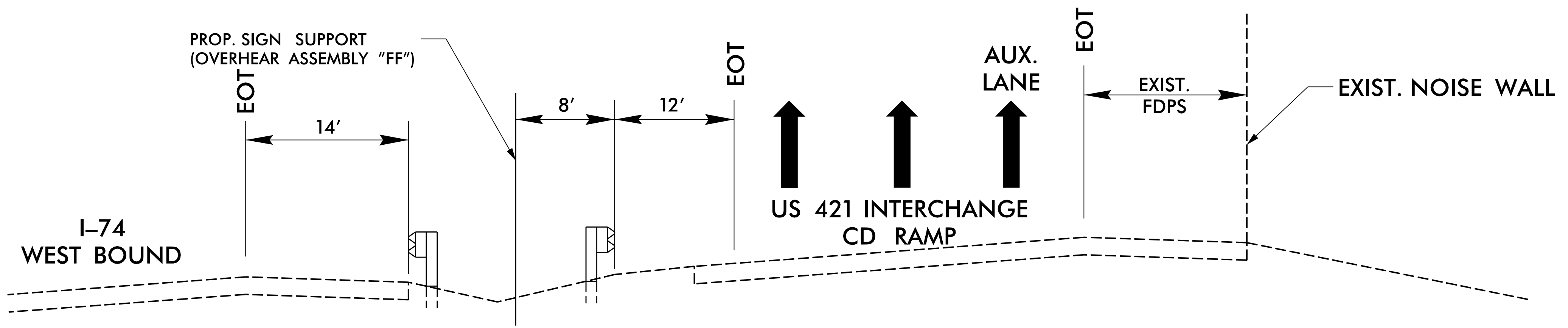
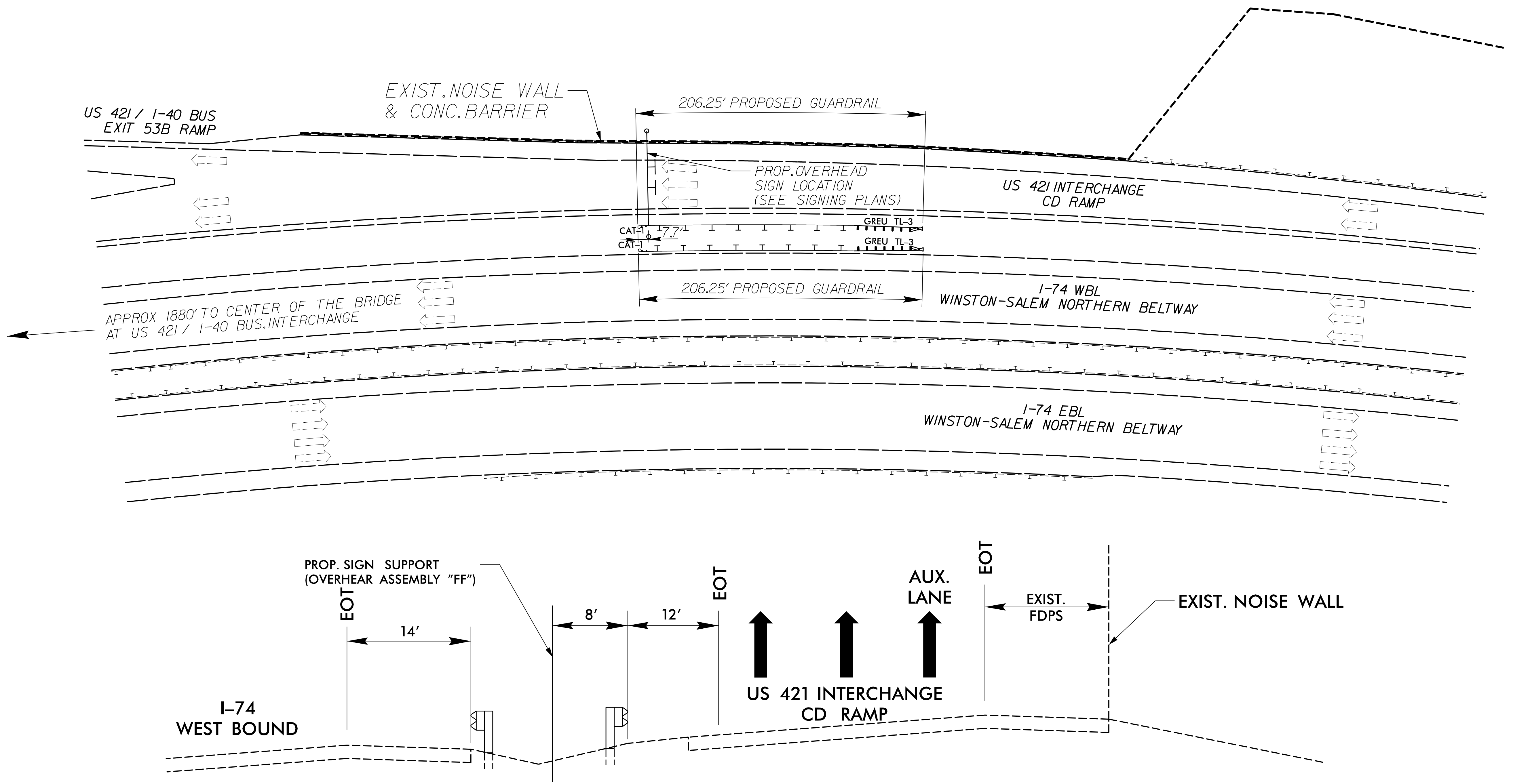
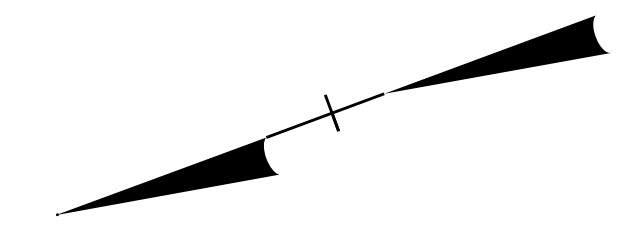
REVISIONS



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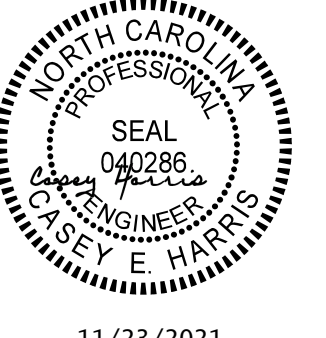

PROJECT REFERENCE NO. U-2579AB	SHEET NO. 2B-21
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	
	
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GUARDRAIL LOCATION DETAIL FOR OVERHEAD ASSEMBLY "FF" (NOT TO SCALE)

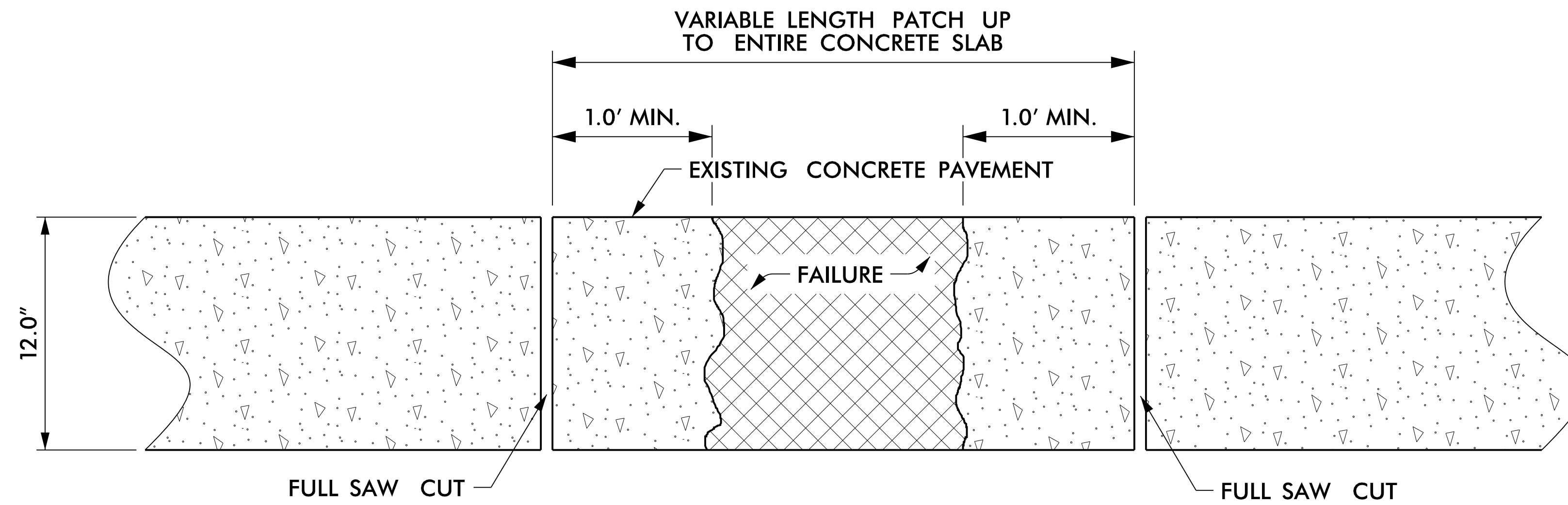


REVISIONS

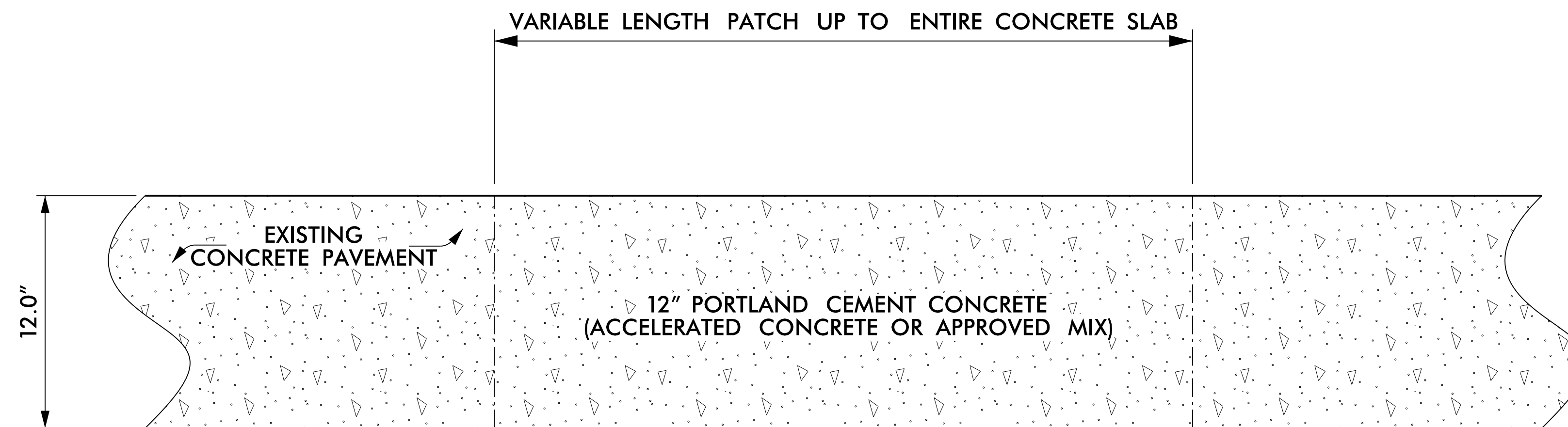
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 TIME: 12:47:22 PM

PROJECT REFERENCE NO. U-2579AB	SHEET NO. 2B-22
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	
	
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SLAB REPAIR DETAIL FOR 12" PORTLAND CEMENT CONCRETE PAVEMENT



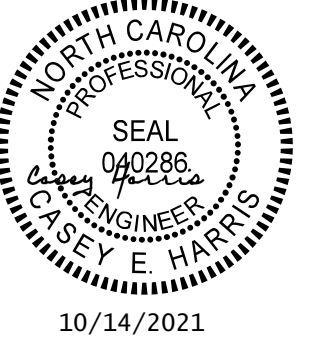

DETAIL OF SAW CUTS



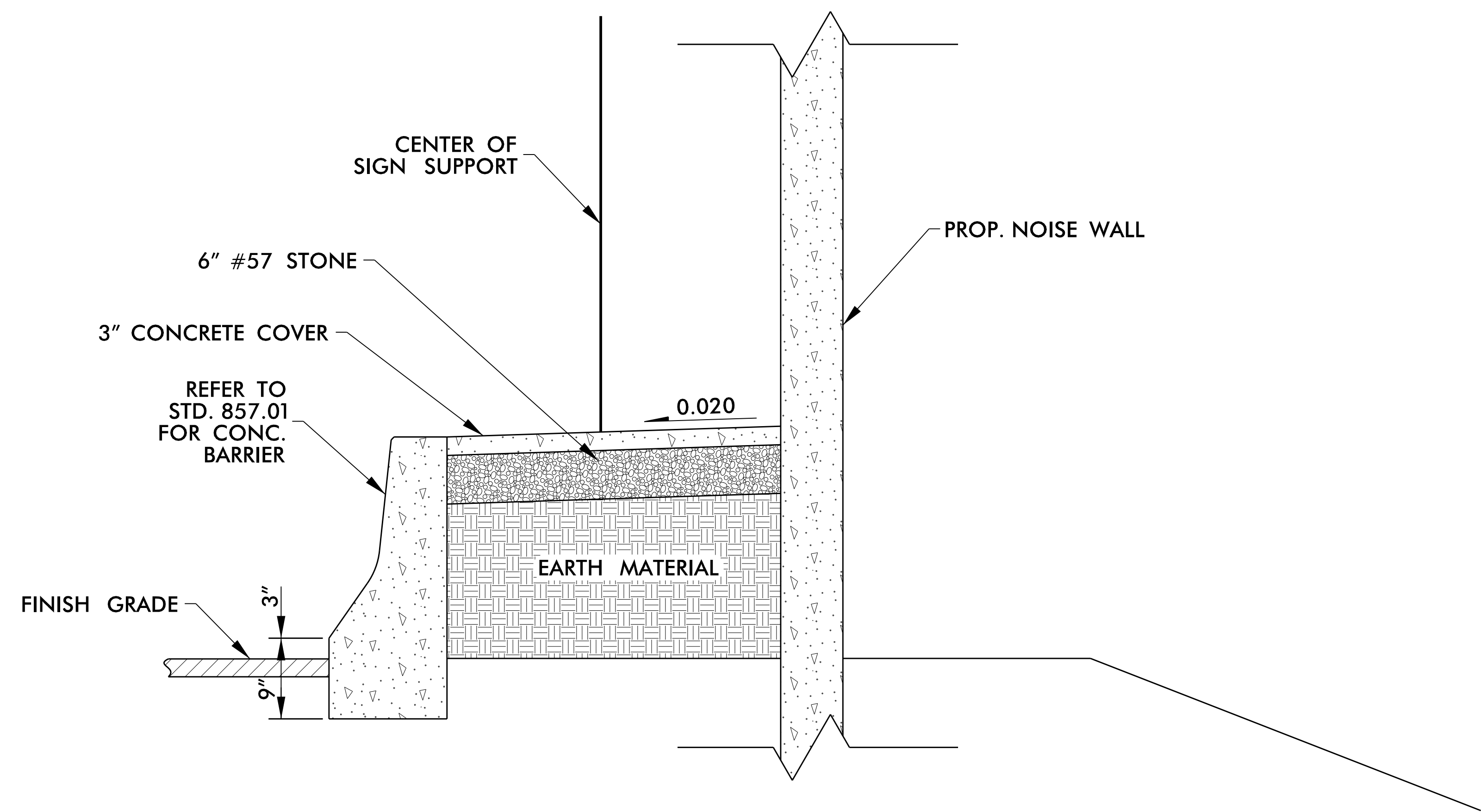
DETAIL OF CONCRETE PAVEMENT REPAIR

- NOTES:
1. DIMENSTIONS ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED
 2. REHABILITATION OF CONCRETE SLAB SUBGRADE SHALL BE AS DIRECTED BY ENGINEER

PLOT DRIVER: NCDOT_pdf_color_eng_50.plt
 USER: CHARRIS
 FILE: NCDOT\NCDOT-U2579AB\6.0.CAD.BTM\6.2.Work\In_Progress\U-2579AB\Roadway\Proj\U2579ab_r_dy_psh_02B-22.dgn
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 REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
U-2579AB	2B-23
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	
	
10/14/2021	
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DETAIL FOR BACKFILL BEHIND BARRIER AT NOISE WALL LOCATIONS



- NOTES:
1. REFER TO SIGNING PLANS AND STRUCTURE PLANS FOR FOUNDATION DETAILS.
 2. REFER TO PLANS AND TYPICALS FOR CONCRETE COVER LOCATIONS.

PLOT DRIVER: NCDOT_pdf_color_eng_50.plt
 USER: CHARRIS
 FILE: NCDOT\NCDOT-U2579AB\6.0.CAD.BTM\6.2.Work\In_Progress\U-2579AB\Roadway\Proj\U2579ab_r_dy_psh_02B-23.dgn
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 REVISIONS