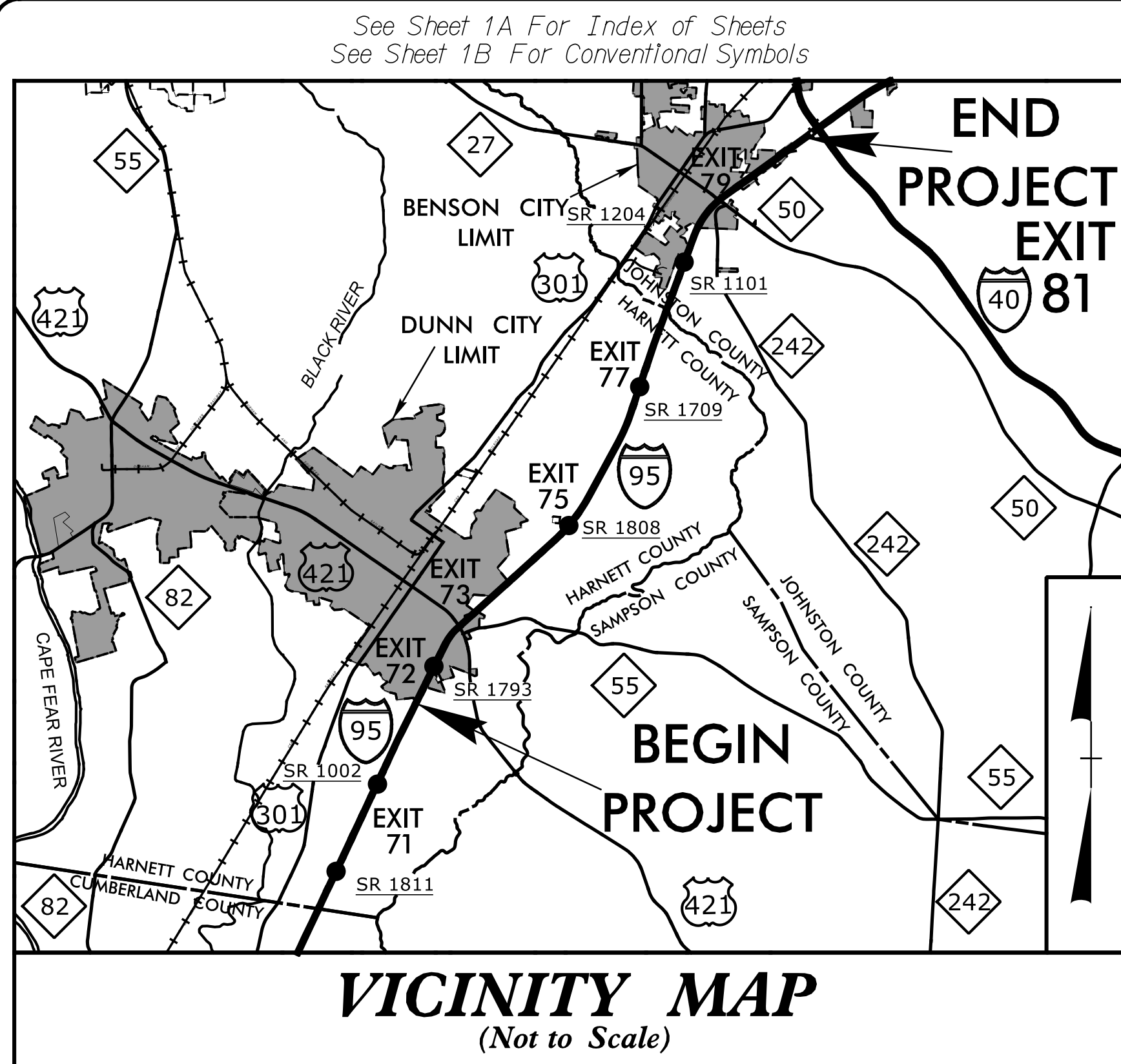


CONTRACT: C204543 TIP PROJECT: I-5878/I-5883/I-5986B



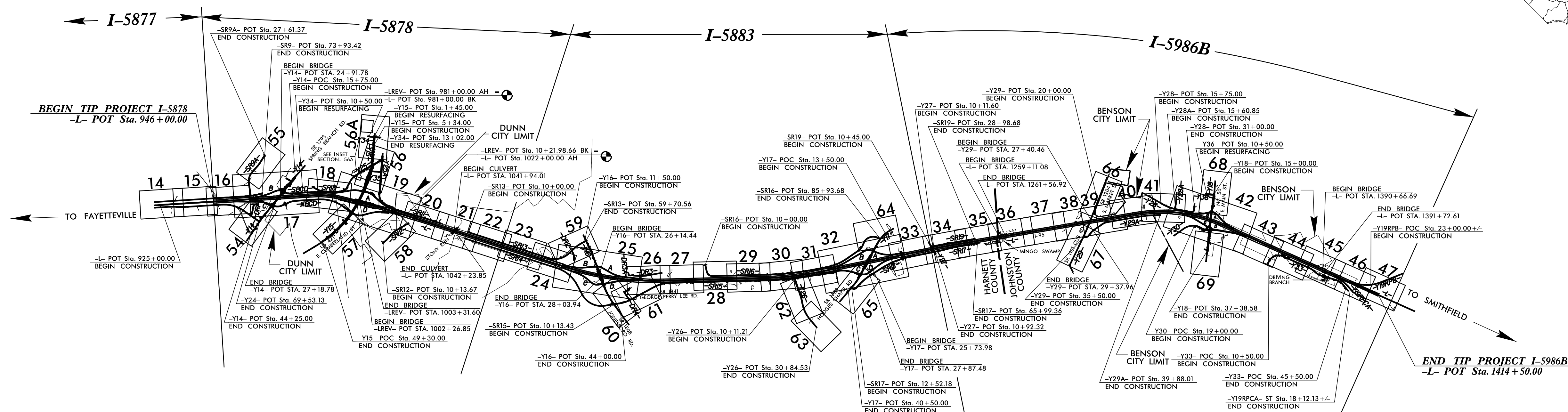
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

HARNETT AND JOHNSTON COUNTIES

**LOCATION: I-95 FROM NORTH OF SR 1002 (LONG BRANCH ROAD)
(EXIT 71) TO I-40 (EXIT 81). WIDEN TO EIGHT LANES.**

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

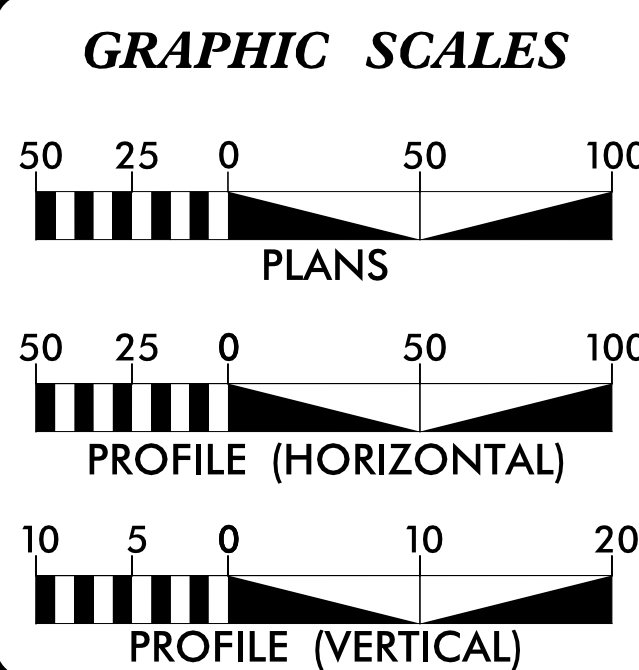
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5878/I-5883/I-5986B	1	
PROJ REFERENCE NO.	STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION
I-5986B	47532.1.3		PE
I-5986B	47532.2.3		RW & UTIL.
I-5986B	47532.3.3		CONST.
I-5878	53078.1.1	NHP-0095(007)73	PE
I-5878	53078.1.2		PE
I-5878	53078.2.2	NHP-0095(017)73	RW & UTIL.
I-5883	53083.1.1	NHPP-0095(033)74	PE
I-5883	53083.1.2		PE
I-5883	53083.2.2	NHPP-0095(033)74	RW & UTIL.



NOTES:

1. THIS IS A CONTROLLED-ACCESS PROJECT WITH ACCESS BEING LIMITED TO INTERCHANGES.
2. SEE TMP PLANS FOR DETOUR ROUTES.

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



DESIGN DATA

ADT 2021 =	68,000
ADT 2040 =	92,900
K =	7 %
D =	55 %
T =	18 % *
V =	70 MPH
* (13% TTST + 5% DUALS)	
FUNC CLASS =	INTERSTATE
STATEWIDE TIER	

PROJECT LENGTH

LENGTH ROADWAY	TIP PROJECT I-5878I-5883I-5986B =	8.780 MILES
LENGTH STRUCTURE	TIP PROJECT I-5878I-5883I-5986B =	0.092 MILES
TOTAL LENGTH	TIP PROJECT I-5878I-5883I-5986B =	8.873 MILES

Prepared In the Office of:
Michael Baker International
FOR DIVISION OF HIGHWAYS

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
AUGUST 16, 2019

LETTING DATE:
JULY 20, 2021

SUSAN C. LANCASTER, P.E.
PROJECT ENGINEER

TERRY A. HARRIS, P.E.
PROJECT DESIGN ENGINEER

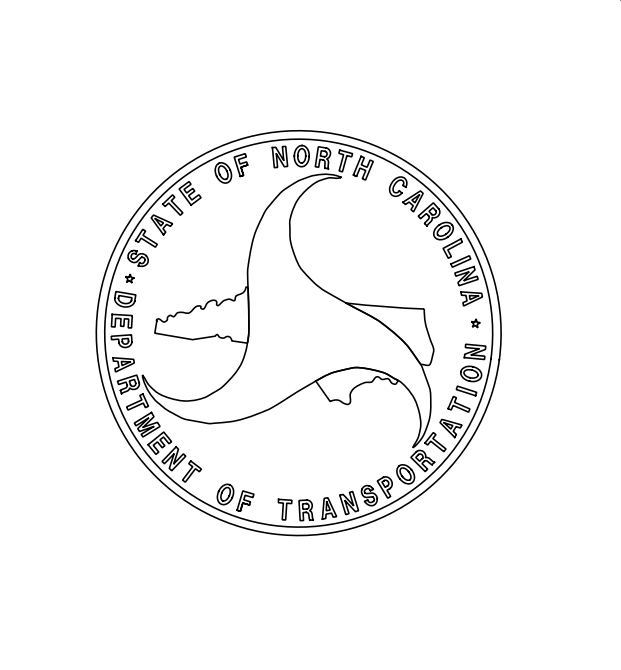
STEVE D. KENDALL, P.E.
NCDOT CONTACT

HYDRAULICS ENGINEER

DocuSigned by:
Joshua G Dalton
SIGNATURE: _____

ROADWAY DESIGN ENGINEER

DocuSigned by:
Susan C Lancaster
SIGNATURE: _____



B:17/99

INDEX OF SHEETS

Table with columns: SHEET NUMBER, SHEET, TITLE SHEET, INDEX OF SHEETS, GENERAL NOTES & LIST OF STANDARD DRAWINGS, CONVENTIONAL SYMBOLS, SURVEY, ROW AND PERMANENT EASEMENT CONTROL SHEETS, PAVEMENT SCHEDULE AND TYPICAL SECTIONS, DETAIL OF BRIDGE IN RELATIONSHIP TO PAVEMENT, DETAIL OF ROUNDABOUT, DETAIL OF CURB, SHEAR POINT DIAGRAMS, TEMPORARY ALIGNMENTS AND PROFILES, DETAIL OF GUARDRAIL PLACEMENT FOR I-40 DMS SIGNS, DETAIL OF TYPE III REINFORCED APPROACH FILLS, DETAIL OF STRUCTURE ANCHOR UNITS, DETAIL OF GUARDRAIL INSTALLATION, DETAIL OF GUARDRAIL PLACEMENT, DETAIL OF AT-1 SYSTEM, DETAIL OF 25' CLEAR SPAN GUARDRAIL PLACEMENT, DETAIL OF GUARDRAIL ANCHOR UNIT MODIFIED B-77 TYING TO MEDIAN CONCRETE BARRIER, DETAIL OF MEDIAN HAZARD PROTECTION AND BARRIER TRANSITION, DETAIL OF CONCRETE GRADE DROP INLET TYPE 'A' MINIMUM DEPTH, DETAIL OF TRAFFIC BEARING GRATED INLET FOR PIPES UP TO 54", DETAIL OF CONCRETE MEDIAN DROP INLET TYPE "A" EXTRA DEPTH OVER 12' to 25', DETAIL OF MINIMUM DEPTH CONCRETE CATCH BASIN 12" THRU 84" PIPE, DETAIL OF REINFORCED CONCRETE ENDWALL FOR 84" PIPE - 90 SKEW, DETAIL OF TEMPORARY 1" STEEL COVER OVER DRAINAGE STRUCTURE, DETAIL OF COAL COMBUSTION PRODUCE PLACEMENT, DRAINAGE DETAILS, DETAIL OF TEMPORARY DRAINAGE FOR PHASED CONSTRUCTION, STANDARD TEMPORARY SHORING, STANDARD TEMPORARY WALL, ROCK EMBANKMENTS, NOISE WALL ENVELOPES, EARTHWORK, PAVEMENT REMOVAL, WOVEN WIRE FENCE, PAVEMENT REMOVAL/BREAKING, CHAIN LINK FENCE, SHOULDER BERM GUTTER, AND 2'6" CURB & GUTTER SUMMARIES, GUARDRAIL SUMMARIES, DRAINAGE SUMMARY SHEETS, SUBSURFACE DRAINAGE, GEOTEXTILE, & AGGREGATE SUBGRADE SUMMARIES, PARCEL INDEX SHEETS, PLAN SHEETS, PROFILE SHEETS, TRANSPORTATION MANAGEMENT PLANS, I-5878 PAVEMENT MARKING PLANS, I-5883 PAVEMENT MARKING PLANS, I-5986B PAVEMENT MARKING PLANS, ELECTRICAL PLANS, I-5878 EROSION CONTROL PLANS, I-5883 EROSION CONTROL PLANS, I-5986B EROSION CONTROL PLANS, I-5986B REFORESTATION PLANS, I-5878 SIGNING PLANS, I-5883 SIGNING PLANS, I-5986B SIGNING PLANS, SIGNAL PLANS, I-5986B ITS PLANS, I-5878 UTILITY CONSTRUCTION PLANS, I-5883 UTILITY CONSTRUCTION PLANS, I-5986B UTILITY CONSTRUCTION PLANS, I-5878 UTILITY BY OTHERS PLANS, I-5883 UTILITY BY OTHERS PLANS, I-5986B UTILITY BY OTHERS PLANS, CROSS-SECTION INDEX SHEET, CROSS-SECTION SUMMARY SHEETS, I-5878 CROSS-SECTIONS, I-5883 CROSS-SECTIONS, I-5986B CROSS-SECTIONS, I-5878 STRUCTURE PLANS - SPRING BRANCH ROAD, I-5878 STRUCTURE PLANS - I-95 OVER US 421, I-5883 STRUCTURE PLANS - JONESBORO ROAD, I-5883 STRUCTURE PLANS - HODGES CHAPEL ROAD, I-5986B STRUCTURE PLANS - I-95 OVER MINGO SWAMP, I-5986B STRUCTURE PLANS - SOUTH MARKET STREET, I-5986B STRUCTURE PLANS - I-95 OVER DRIVING BRANCH, I-5878 CULVERT UNDER -NBCD-, I-5878 CULVERT UNDER I-95 (-L- 1042 +08.93), I-5883 CULVERT UNDER I-95 (-L- 1220 +34.00), I-5986B CULVERT UNDER -Y33-, I-5878 WALL PLANS, I-5883 WALL PLANS, I-5986B WALL PLANS, I-5883 SOUND BARRIER WALL PLANS, I-5986B SOUND BARRIER WALL PLANS

2018 ROADWAY ENGLISH STANDARD DRAWINGS

EFF. 01-16-2018 REV.

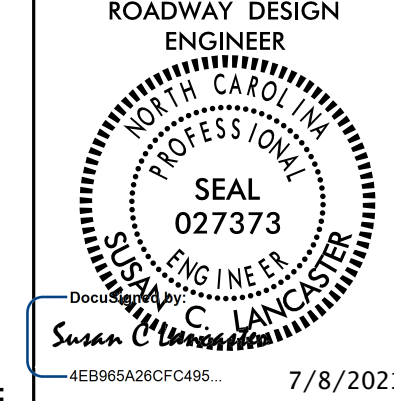
The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - N. C. Department of Transportation - Raleigh, N. C., Dated January, 2018 are applicable to this project and by reference hereby are considered a part of these plans:

Table with columns: STD.NO., DIVISION, TITLE. Includes entries for Earthwork (200.02, 200.03, 225.01, etc.), Pipe Culverts (300.01, 310.10), Major Structures (422.01), Subgrade, Bases and Shoulders (560.01, 560.02), Asphalt Bases and Pavements (610.04, 654.01, etc.), Incidentals (815.02, 816.01, etc.), and various drainage and utility structures.

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

Table with columns: PROJECT REFERENCE NO., SHEET NO., and content: I-5878/I-5883/I-5986B IA

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



Michael Baker Engineering, Inc. 8000 Regency Place Cary, NC 27513 Phone: 919.279.1500 Fax: 919.279.1504

GENERAL NOTES: 2018 SPECIFICATIONS EFFECTIVE: 01-16-2018 REVISED: GRADING AND SURFACING OR RESURFACING AND WIDENING: THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. WHERE NO GRADE LINES ARE SHOWN, THE PROFILES SHOWN DENOTE THE TOP ELEVATION OF THE EXISTING PAVEMENT ALONG THE CENTER LINE OF SURVEY ON WHICH THE PROPOSED RESURFACING WILL BE PLACED. GRADE LINES MAY BE ADJUSTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN. CLEARING: CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II AND METHOD III. SUPERELEVATION: ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NO. 225.04 AND STD. NO. 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 AND STD. NO. 560.02. 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 RADIUS 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 NOT SHOWN ON THE PLANS WILL BE PAID FOR AT THE CONTRACT PRICE FOR "TEMPORARY SHORING". 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. UTILITIES: UTILITY OWNERS ON THIS PROJECT ARE Conterra (communications), Harnett Regional Water, City of Dunn (water & sewer), Benson Public Utilities (water & sewer), Johnston County Public Utilities (water), Duke Energy (power), South River EMC (power), Town of Benson, (power), PNG (gas), Century Link (communications), Spectrum (communications). 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 OTHERS. 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.

08-Jul-2018 14:45 P:\Roadway\I-95\I-9586B_rdy_psh_1a.dgn

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

12/2/2016

BOUNDARIES AND PROPERTY:

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin	
Computed Property Corner	
Property Monument	
Parcel/Sequence Number	
Existing Fence Line	
Proposed Woven Wire Fence	
Proposed Chain Link Fence	
Proposed Barbed Wire Fence	
Existing Wetland Boundary	
Proposed Wetland Boundary	
Existing Endangered Animal Boundary	
Existing Endangered Plant Boundary	
Existing Historic Property Boundary	
Known Contamination Area: Soil	
Potential Contamination Area: Soil	
Known Contamination Area: Water	
Potential Contamination Area: Water	
Contaminated Site: Known or Potential	

BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G Tank Cap	
Sign	
Well	
Small Mine	
Foundation	
Area Outline	
Cemetery	
Building	
School	
Church	
Dam	

HYDROLOGY:

Stream or Body of Water	-----
Hydro, Pool or Reservoir	
Jurisdictional Stream	
Buffer Zone 1	
Buffer Zone 2	
Flow Arrow	
Disappearing Stream	
Spring	
Wetland	
Proposed Lateral, Tail, Head Ditch	
False Sump	

RAILROADS:

Standard Gauge	
RR Signal Milepost	
Switch	
RR Abandoned	
RR Dismantled	

RIGHT OF WAY & PROJECT CONTROL:

Secondary Horiz and Vert Control Point	
Primary Horiz Control Point	
Primary Horiz and Vert Control Point	
Exist Permanent Easment Pin and Cap	
New Permanent Easment Pin and Cap	
Vertical Benchmark	
Existing Right of Way Marker	
Existing Right of Way Line	
New Right of Way Line	
New Right of Way Line with Pin and Cap	
New Right of Way Line with Concrete or Granite R/W Marker	
New Control of Access Line with Concrete CA 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	
Proposed Slope Stakes Fill	
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	

PAVEMENT SCHEDULE

(FINAL PAVEMENT DESIGN)

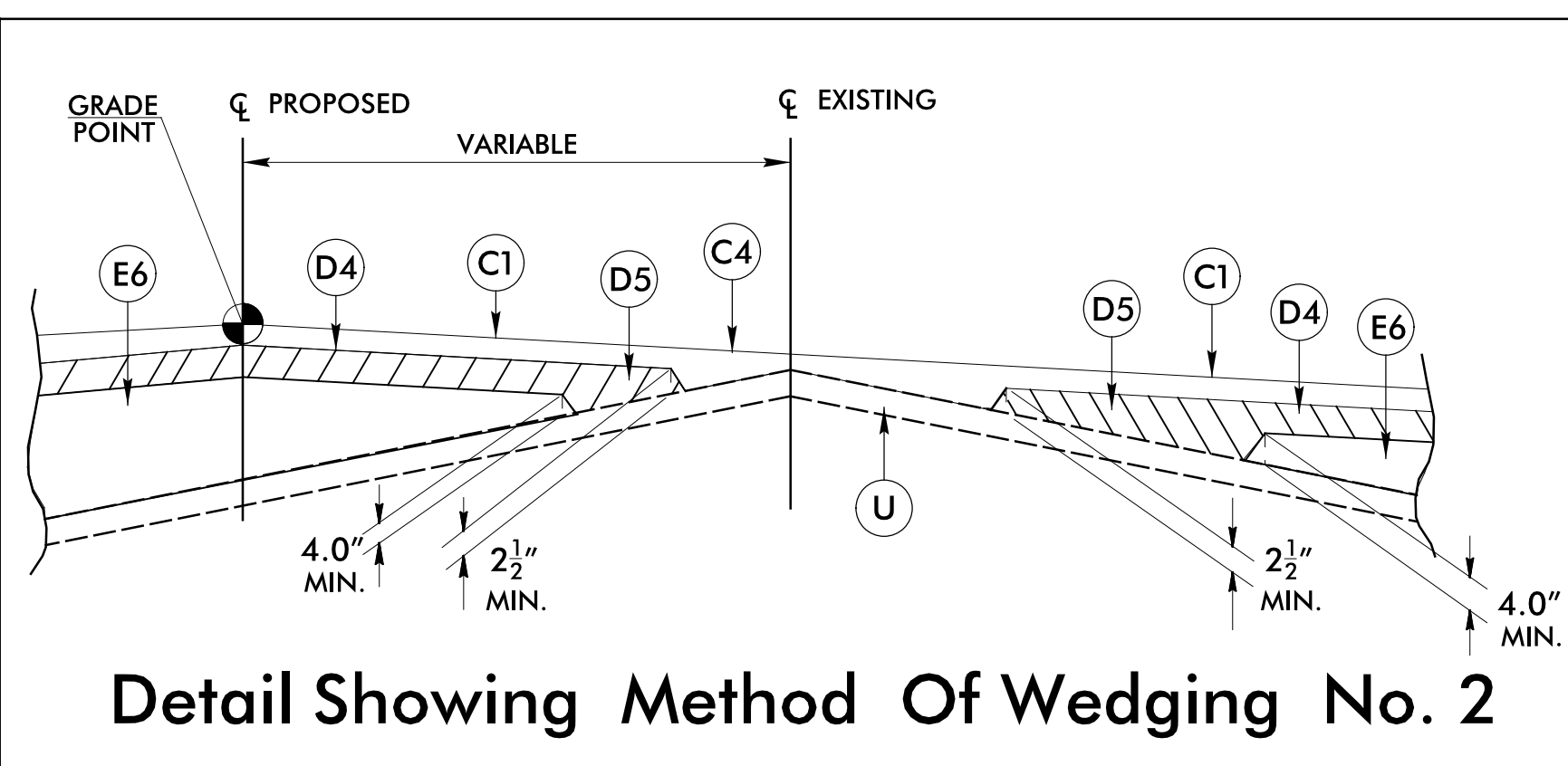
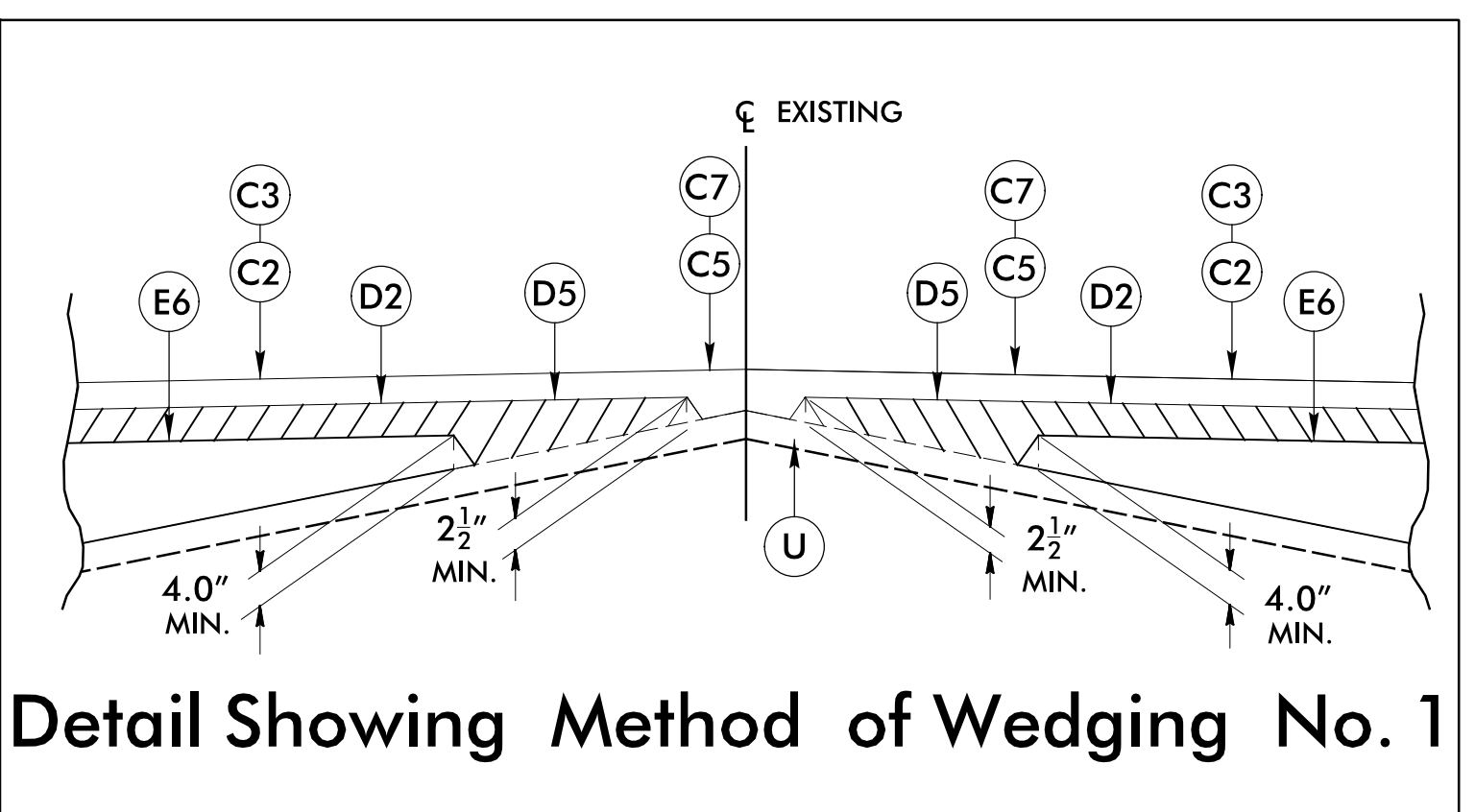
A	12" CONCRETE TRUCK APRON WITH WELDED WIRE MESH REINFORCEMENT.	D5	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 2½" IN DEPTH OR GREATER THAN 4" IN DEPTH.	R1	2'-6" CONCRETE CURB AND GUTTER
A1	6" CONCRETE DRIVEWAY WITH WIRE MESH	E1	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.	R2	PROPOSED 5" MONOLITHIC CONCRETE ISLAND (KEYED IN)
C1	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE TYPE S9.5D, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.	E2	PROP. APPROX. 4½" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 513 LBS. PER SQ. YD.	R3	1'-6" CONCRETE CURB AND GUTTER.
C2	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.	E3	PROP. APPROX. 5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.	R4	SHOULDER BERM GUTTER
C3	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.	E4	PROP. APPROX. 11" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD. IN EACH OF TWO LAYERS	R5	EXPRESSWAY GUTTER
C4	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 2" IN DEPTH.	E5	PROP. APPROX. 3" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD.	R6	8" X 18" CONCRETE CURB
C5	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 2" IN DEPTH.	E6	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 5½" IN DEPTH.	S	4" CONCRETE SIDEWALK
C6	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, TYPE S9.5D, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.	J1	PROPOSED 6" AGGREGATE BASE COURSE	T	EARTH MATERIAL
C7	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 1½" IN DEPTH.	J2	PROPOSED 8" AGGREGATE BASE COURSE	U	EXISTING PAVEMENT
D1	PROP. APPROX. 2½" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.	J3	PROPOSED 10" AGGREGATE BASE COURSE	V1	3" MILLING
D2	PROP. APPROX. 3" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD.	K1	PROP. 12" CLASS IV SUBGRADE STABILIZATION	V2	MILLED RUMBLE STRIPS
D3	PROP. APPROX. 3½" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 399 LBS. PER SQ. YD.	NI	GEOTEXTILE FOR SOIL STABILIZATION	V3	1.5" MILLING
D4	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.	P	PRIME COAT	W1	VARIABLE DEPTH ASPHALT PAVEMENT (SEE DETAIL SHOWING METHOD OF WEDING NO. 1)
				W2	VARIABLE DEPTH ASPHALT PAVEMENT (SEE DETAIL SHOWING METHOD OF WEDING NO. 2)
				Y1	DOUBLE FACED CONCRETE BARRIER, TYPE T
				Y2	SINGLE FACED CONCRETE BARRIER
				Y3	DOUBLE FACED CONCRETE BARRIER, TYPE T1

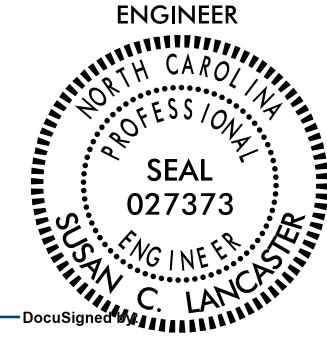
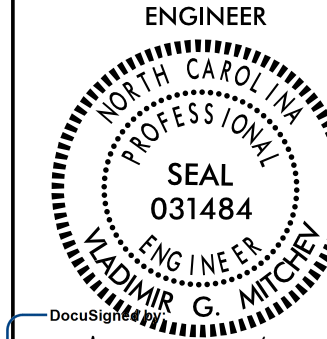

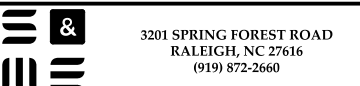
NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.

ALTERNATE PAVEMENT DESIGN FOR Y-LINES

ABC BASE CAN BE SUBSTITUTED WITH B25.0C AT A THICKNESS EQUAL TO HALF THE THICKNESS OF THE ABC. CONVERSELY, WHERE 4" OR 5" B25.0C IS PROPOSED, ABC CAN BE SUBSTITUTED WITH TWICE THE THICKNESS OF THE PROPOSED B25.0C.

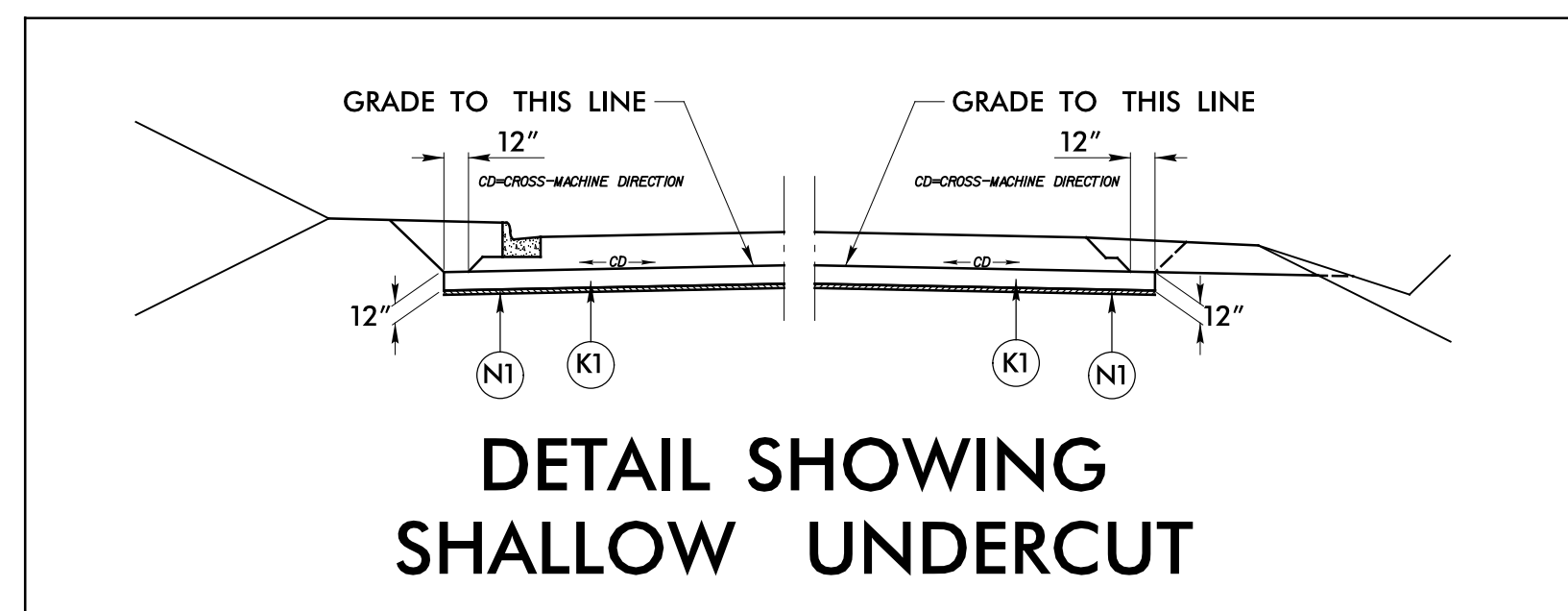
IF ABC BASE IS CONSTRUCTED WITH ASPHALT SURFACE PAVED ON TOP OF ABC, PRIME COAT MUST BE APPLIED AT RATE AS SPECIFIED IN THE NCDOT STANDARD SPECIFICATION FOR ROADS AND STRUCTURES.



PROJECT REFERENCE NO. 1-5878/1-5883/1-5986B	SHEET NO. 2A-1
RW SHEET NO.	
ROADWAY DESIGN ENGINEER  Susan C. Lancaster 5/17/2021	PAVEMENT DESIGN ENGINEER  Vladimir G. Mitchev 5/17/2021
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
 	

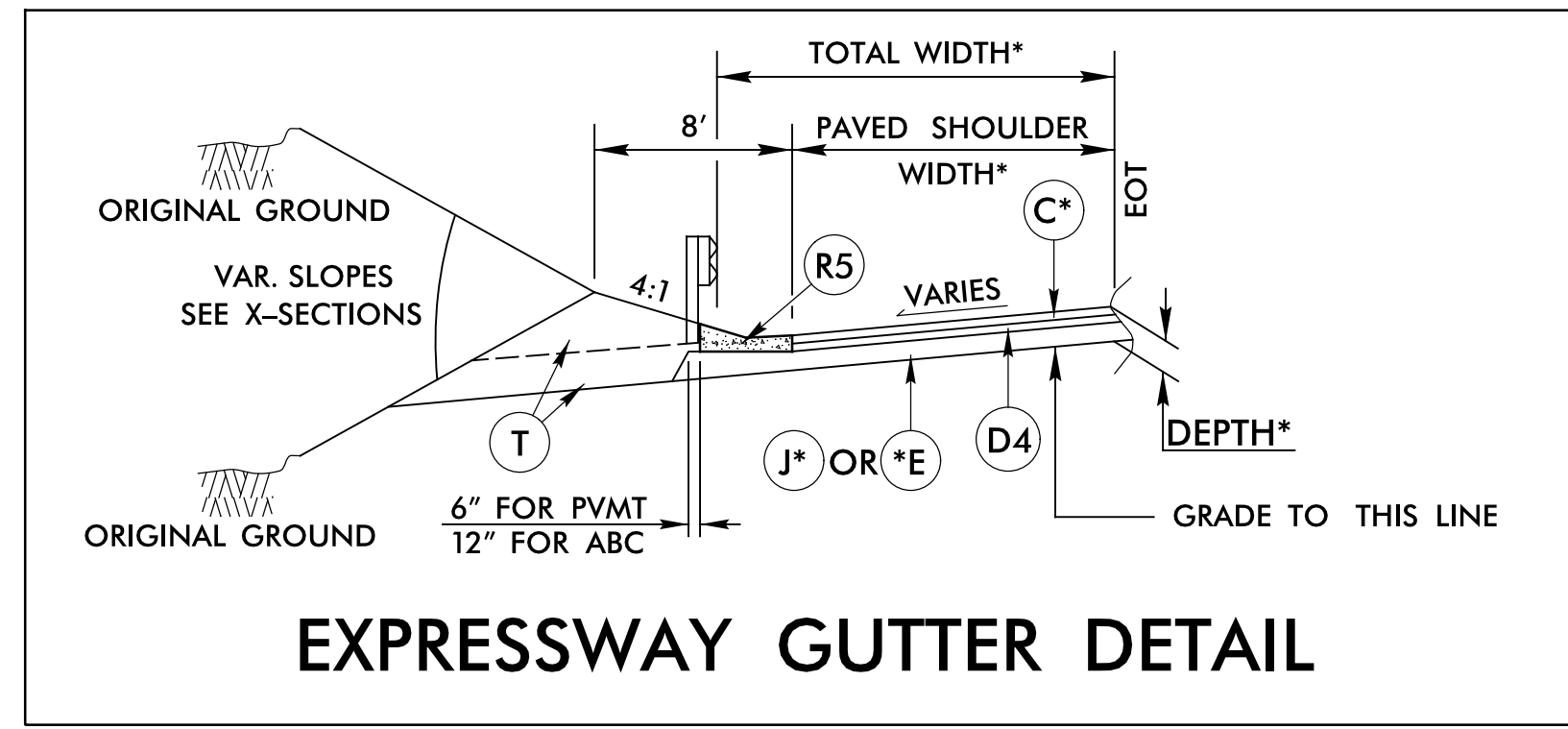
5/14/2021

A	12" CONC. APRON
A1	6" CONC. DRWY
C1	3" S9.5D
C2	3" S9.5C
C3	3" S9.5B
C4	VAR. S9.5D
C5	VAR. S9.5C
C6	1 1/2" S9.5D
C7	VAR. S9.5B
D1	2 1/2" I19.0C
D2	3" I19.0C
D3	3 1/2" I19.0C
D4	4" I19.0C
D5	VAR. I19.0C
E1	4" B25.0C
E2	4 1/2" B25.0C
E3	5" B25.0C
E4	11" B25.0C
E5	3" B25.0C
E6	VAR. B25.0C
J1	6" ABC
J2	8" ABC
J3	10" ABC
K1	12" CLASS IV STABILIZATION
N1	GEOTEXTILE STABILIZATION
P	PRIME COAT
R1	2'-6" C & G
R2	MCI (KEYED IN)
R3	1'-6" C & G
R4	SBG
R5	EXPRESS. GUTTER
R6	8" X 18" CONC. CURB
S	4" SIDEWALK
T	EARTH MATERIAL
U	EXIST. PAVEMENT
V1	3" MILLING
V2	RUMBLE STRIPS
V3	1.5" MILLING
W1	WEDGING DETAIL 1
W2	WEDGING DETAIL 2
Y1	BARRIER, TYPE T
Y2	SF BARRIER
Y3	BARRIER, TYPE T1



USE SHALLOW UNDERCUT DETAIL

- L- STA. 946+00 TO 1258+75 -Y16- STA. 11+25 TO 14+75
- L- STA. 1261+75 TO 1390+25 -Y17- STA. 13+50 TO 17+25
- L- STA. 1392+00 TO 1410+00 -Y17- STA. 37+75 TO 40+50
- Y14RPB- STA. 12+74 TO 14+72 -Y19RPB- STA. 25+81 TO 27+80
- Y14- STA. 34+75 TO 38+75 -SR17- STA. 57+03 TO 60+03
- Y15- STA. 21+75 TO 25+75 -SR19- STA. 12+00 TO 16+22
- Y15RPA- STA. 10+00 TO 17+25 -SR19- STA. 16+72 TO 23+24
- Y15RPD- STA. 10+00 TO 14+49

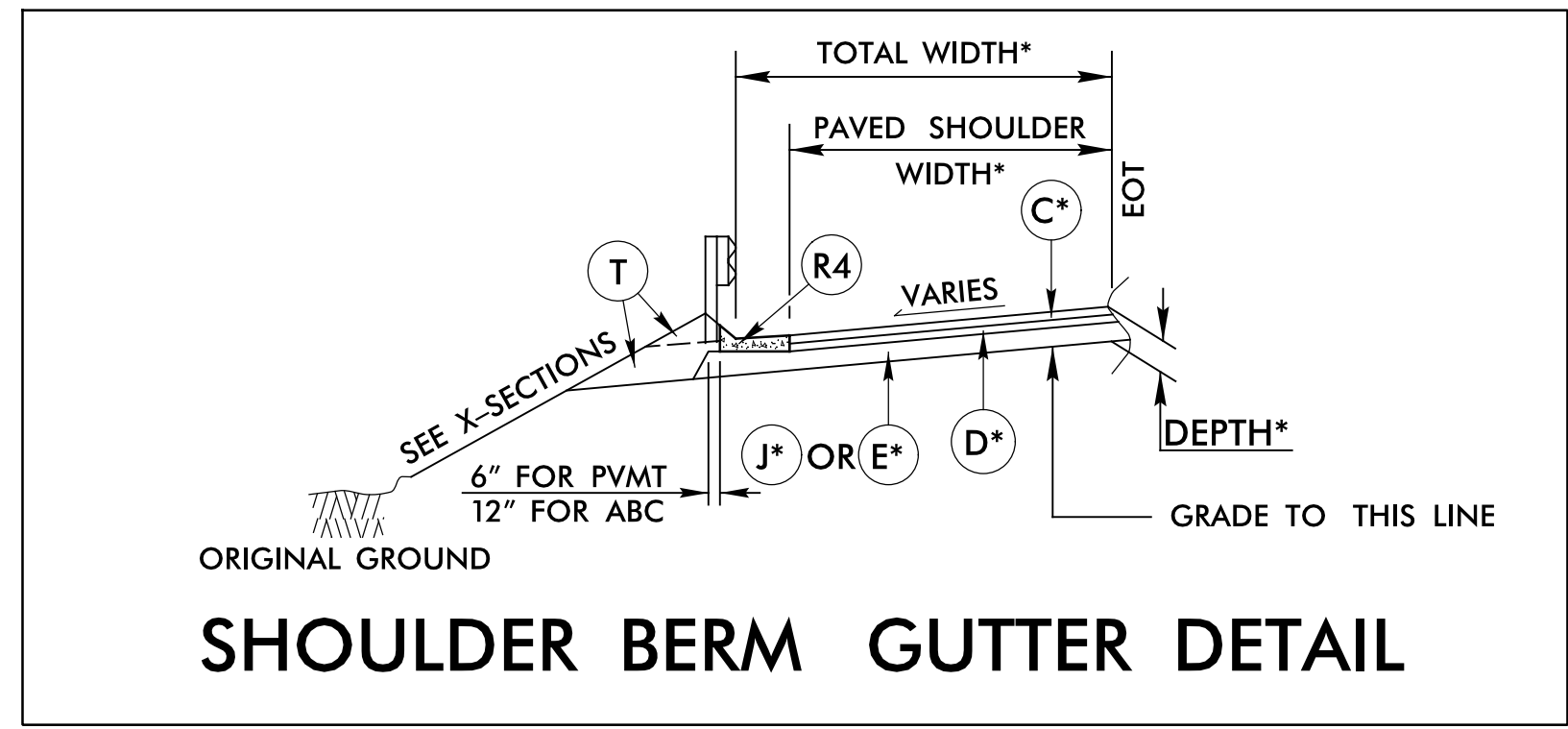


USE EXPRESSWAY GUTTER DETAIL

- L- STA. 1328+00.00 RT TO -Y18RPC- STA. 11+47.43 RT
- L- STA. 1354+50.00 LT TO -Y18RPA- STA. 16+20.00 RT
- SBCD- STA. 23+35.00 TO STA. 25+10.00 LT

***USE WITH EXPRESSWAY GUTTER DETAIL**

ALIGNMENT	PS WIDTH	TOTAL WIDTH	C	J OR E	DEPTH
-L-	12'	15.15'	C1	E4	18.0"
-Y18RPA-	12'	15.15'	C2	J2	15.0"
-Y18RPC-	12'	15.15'	C2	J2	15.0"
-SBCD-	6'	9.15'	C2	J2	15.0"



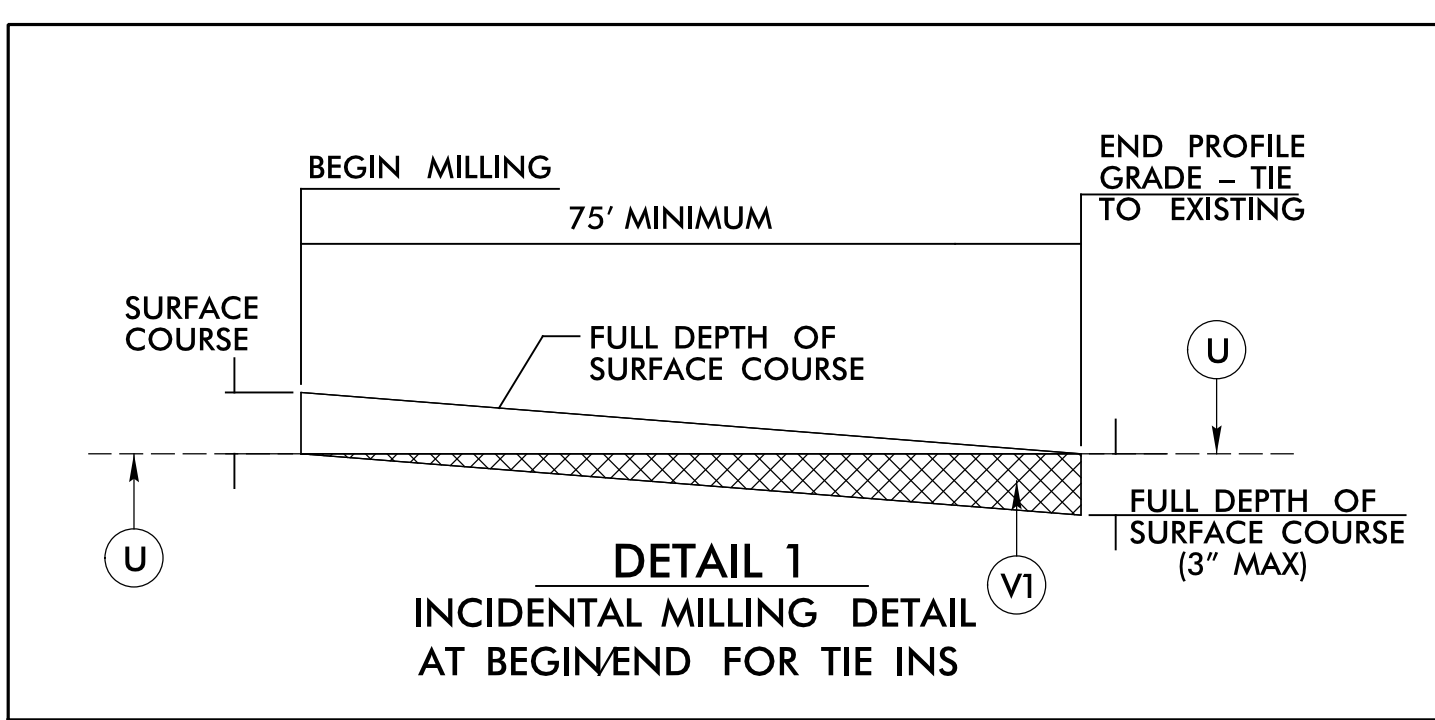
USE SHOULDER BERM GUTTER DETAIL

- LREV- STA. 995+15.00 TO STA. 1001+93.91 RT
- LREV- STA. 1001+88.00 TO STA. 1002+21.85 LT
- LREV- STA. 1003+36.62 TO STA. 1010+00.00 RT
- LREV- STA. 1003+74.50 TO STA. 1008+60.00 LT
- L- STA. 1251+50.00 TO STA. 1258+87.08 RT
- L- STA. 1251+50.00 TO STA. 1258+87.08 LT
- L- STA. 1261+80.92 TO STA. 1263+33.00 RT
- L- STA. 1261+80.92 TO STA. 1267+00.00 LT
- L- STA. 1371+03.90 TO STA. 1375+27.50 RT
- L- STA. 1387+33.60 TO STA. 1390+83.35 RT
- L- STA. 1388+54.45 TO STA. 1390+02.31 LT
- L- STA. 1391+55.60 TO STA. 1394+12.20 LT
- L- STA. 1392+36.64 TO STA. 1394+15.35 RT
- Y16- STA. 24+25.00 TO STA. 25+79.71 RT
- Y16- STA. 24+44.00 TO STA. 26+05.22 LT
- Y16- STA. 28+12.67 TO STA. 29+74.00 RT
- Y16- STA. 28+38.16 TO STA. 29+85.00 LT
- Y17- STA. 23+70.00 TO STA. 25+44.93 LT
- Y17- STA. 23+85.00 TO STA. 25+81.19 RT
- Y17- STA. 27+80.29 TO STA. 29+34.00 LT
- Y17- STA. 28+16.53 TO STA. 29+92.00 RT
- Y17RPC- STA. 23+38.00 RT TO -Y17- STA. 33+85.00 RT
- Y18RPB- STA. 15+60.00 TO STA. 17+40.00 LT
- Y29- STA. 26+77.00 TO STA. 27+34.38 RT
- Y29- STA. 26+77.00 TO STA. 27+18.88 LT
- Y29- STA. 29+59.53 TO STA. 33+20.00 RT
- Y29- STA. 29+44.04 TO STA. 30+53.00 LT

TEMPORARY PAVEMENT DESIGN OPTIONS

I-95 TEMPORARY PAVEMENT DESIGNS

Design Life	1 year	1.5 years	2 years	2.5 years	3 years
Material	Thickness (in)				
Asphalt Surface Course	2.0" S9.5C	2.0" S9.5C	2.0" S9.5C	3.0" S9.5C	3.0" S9.5C
Asphalt Intermediate Course	3.5" I19.0C	3.5" I19.0C	4.0" I19.0C	3.5" I19.0C	3.5" I19.0C
Asphalt Base Course	4.5" B25.0C	5.5" B25.0C	5.5" B25.0C	5.0" B25.0C	5.5" B25.0C
Total Thickness	10.0"	11.0"	11.5"	11.5"	12.0"
Required SN	3.75	4.00	4.20	4.35	4.45
Design SN	3.77	4.07	4.29	4.36	4.51



- L- STA. 1414+50.00
- Y14- STA. 15+75.00 AND 44+25.00
- Y15- STA. 49+30.00
- Y16- STA. 11+50.00 AND 44+00.00
- Y17- STA. 13+50.00 AND 40+50.00
- Y27- STA. 10+92.32
- Y28- STA. 15+75.00 AND 31+00.00
- Y28A- STA. 15+60.85
- Y29- STA. 20+00.00 AND 35+50.00
- Y30- STA. 19+00.00
- Y33- STA. 10+50.00 AND 45+65.00
- Y18RPB- STA. 19+00.00
- SR11- STA. 10+50.00
- SR18- STA. 10+00.00 AND 25+35.10
- SR19- STA. 10+45.00

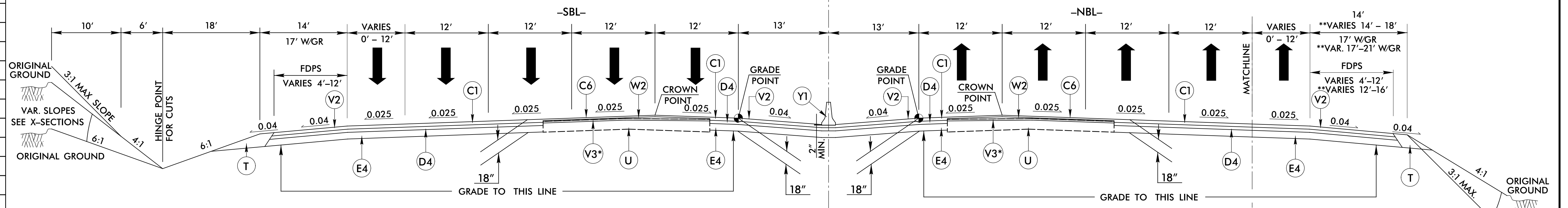
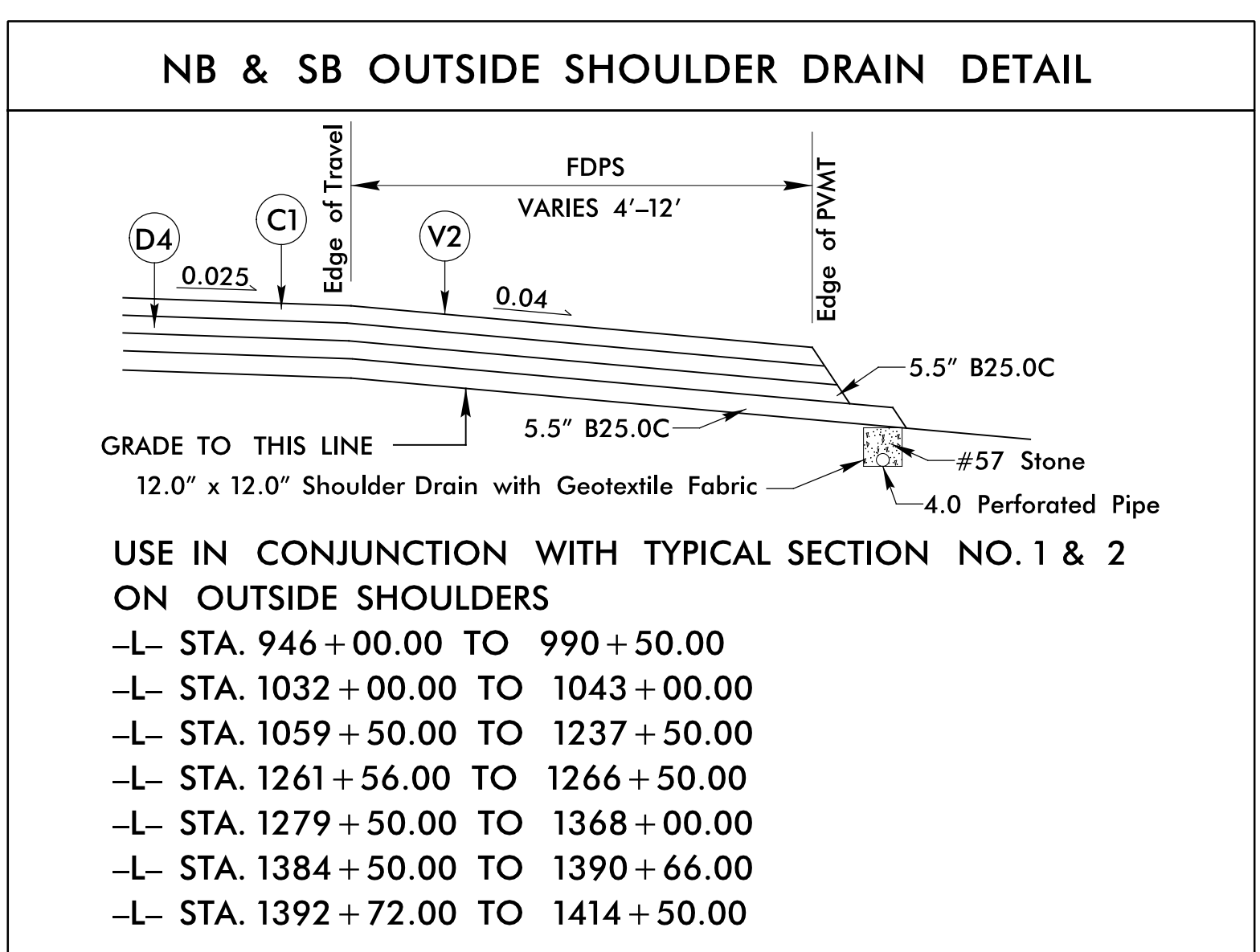
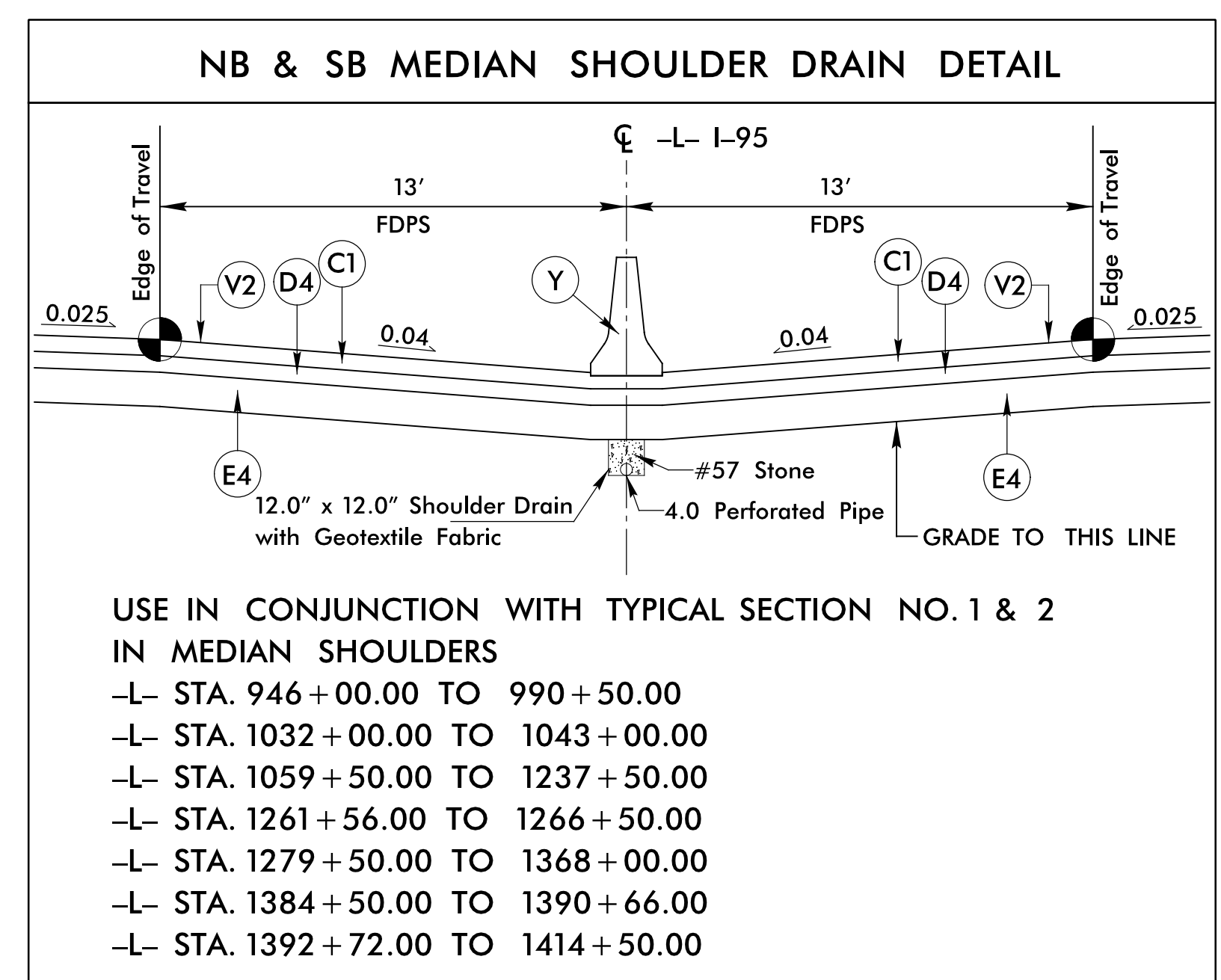
PROJECT REFERENCE NO. I-5878/1-5883/1-5986B	SHEET NO. 2A-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER SEAL 027373 SUSAN C. LANCASTER	PAVEMENT DESIGN ENGINEER SEAL 031484 VICTOR G. MITCHELL
DocuSign Susan C. Lancaster 4EB96A2BCFC485... 5/13/2021	DocuSign Victor G. Mitchell BCFD5C466E487... 5/13/2021
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Michael Baker Engineering, Inc. 1800 Regency Park Suite 600 Cary, NC 27518 Tel: 919.276.1000 Fax: 919.276.1001 NC License: P-1084	3381 SPRING FOREST ROAD RALEIGH, NC 27616 919.872.2666

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5/14/2021

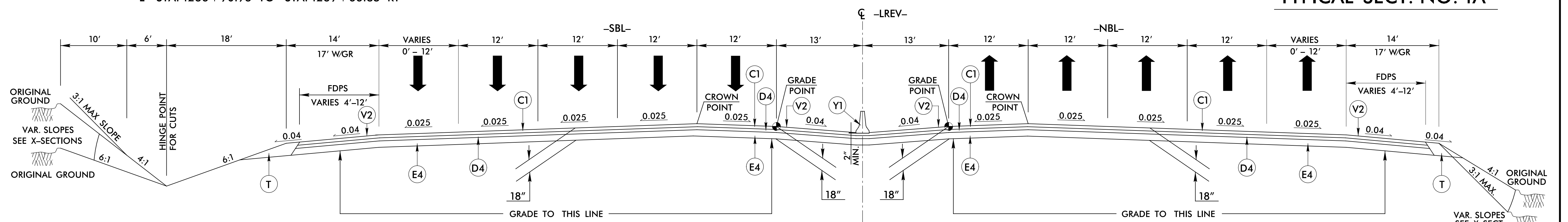
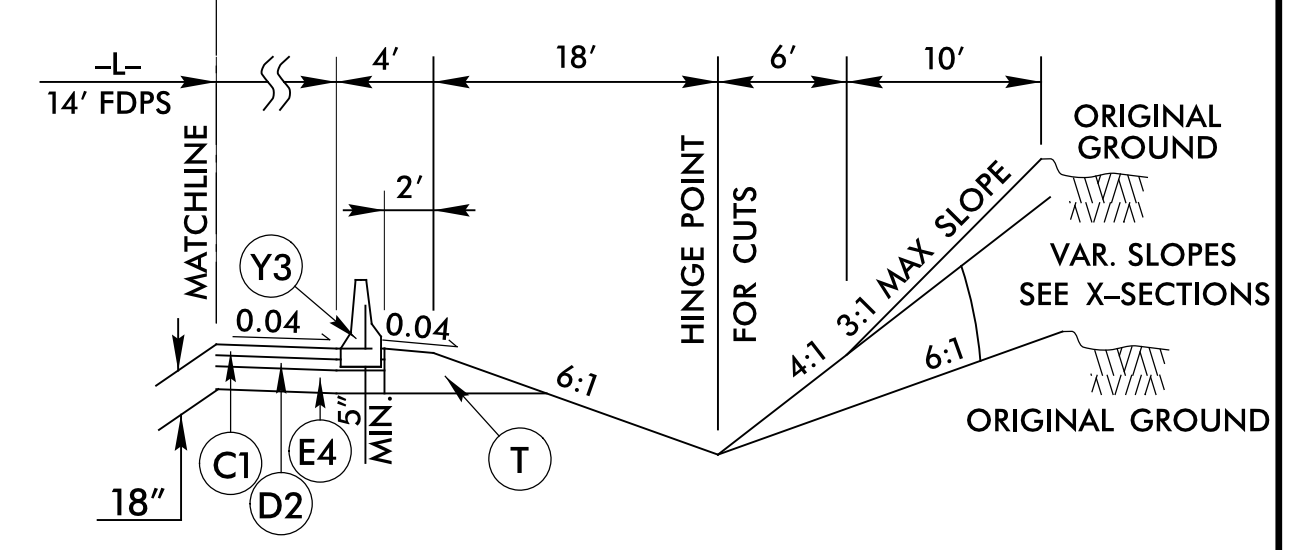
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A	12" CONC. APRON
A1	6" CONC. DRWY
C1	3" S9.5D
C2	3" S9.5C
C3	3" S9.5B
C4	VAR. S9.5D
C5	VAR. S9.5C
C6	1 1/2" S9.5D
C7	VAR. S9.5B
D1	2 1/2" I19.0C
D2	3" I19.0C
D3	3 1/2" I19.0C
D4	4" I19.0C
D5	VAR. I19.0C
E1	4" B25.0C
E2	4 1/2" B25.0C
E3	5" B25.0C
E4	11" B25.0C
E5	3" B25.0C
E6	VAR. B25.0C
J1	6" ABC
J2	8" ABC
J3	10" ABC
K1	12" CLASS IV STABILIZATION
N1	GEOTEXTILE STABILIZATION
P	PRIME COAT
R1	2'-6" C & G
R2	MCI (KEYED IN)
R3	1'-6" C & G
R4	SBG
R5	EXPRESS. GUTTER
R6	8" X 18" CONC. CURB
S	4" SIDEWALK
T	EARTH MATERIAL
U	EXIST. PAVEMENT
V1	3" MILLING
V2	RUMBLE STRIPS
V3	1.5" MILLING
W1	WEDGING DETAIL 1
W2	WEDGING DETAIL 2
Y1	BARRIER, TYPE T
Y2	SF BARRIER
Y3	BARRIER, TYPE T1



USE TYPICAL SECTION NO. 1
 -L- STA. 946+00.00 TO STA. 981+00.00
 -LREV- STA. 981+00.00 TO STA. 985+84.65
 -LREV- STA. 1014+88.31 TO STA. 1021+98.66
 -L- STA. 1022+00.00 TO STA. 1258+31.31
 *-L- STA. 1258+31.31 TO STA. 1259+11.08 (BEGIN BRIDGE)
 *-L- STA. 1261+56.92 (END BRIDGE) TO STA. 1390+66.69 (BEGIN BRIDGE)
 *-L- STA. 1391+72.61 (END BRIDGE) TO STA. 1408+00.00
 TRANSITION FROM TYPICAL SECTION NO. 1 TO NO. 3
 *-L- STA. 1408+00.00 TO STA. 1413+00.00
 **-L- STA. 1399+81.55 TO STA. 1410+50.00

USE TYPICAL SECTION NO. 1A
 -L- STA. 1236+90.93 TO STA. 1239+66.85 RT



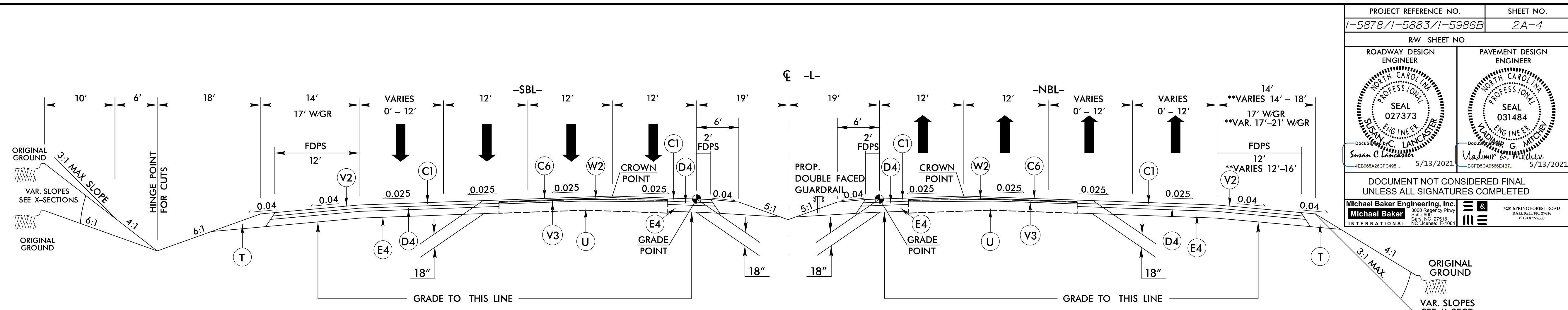
USE TYPICAL SECTION NO. 2
 -LREV- STA. 985+84.65 TO STA. 1002+26.85 (BEGIN BRIDGE)
 -LREV- STA. 1003+31.60 (END BRIDGE) TO STA. 1014+88.31

PROJECT REFERENCE NO. I-5878/1-5883/1-5986B	SHEET NO. 2A-3
RW SHEET NO.	
ROADWAY DESIGN ENGINEER SWAN C. LANCASTER SEAL 027373 5/13/2021	PAVEMENT DESIGN ENGINEER VADIM G. NITICHENKO SEAL 031484 5/13/2021
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Michael Baker Engineering, Inc. 1000 Regency Park Suite 600 Cary, NC 27518 Tel: 919.241.2000 Fax: 919.241.2001 www.mbakercorp.com	3381 SPRING FOREST ROAD RALEIGH, NC 27614 919.872.2666

5/14/2021

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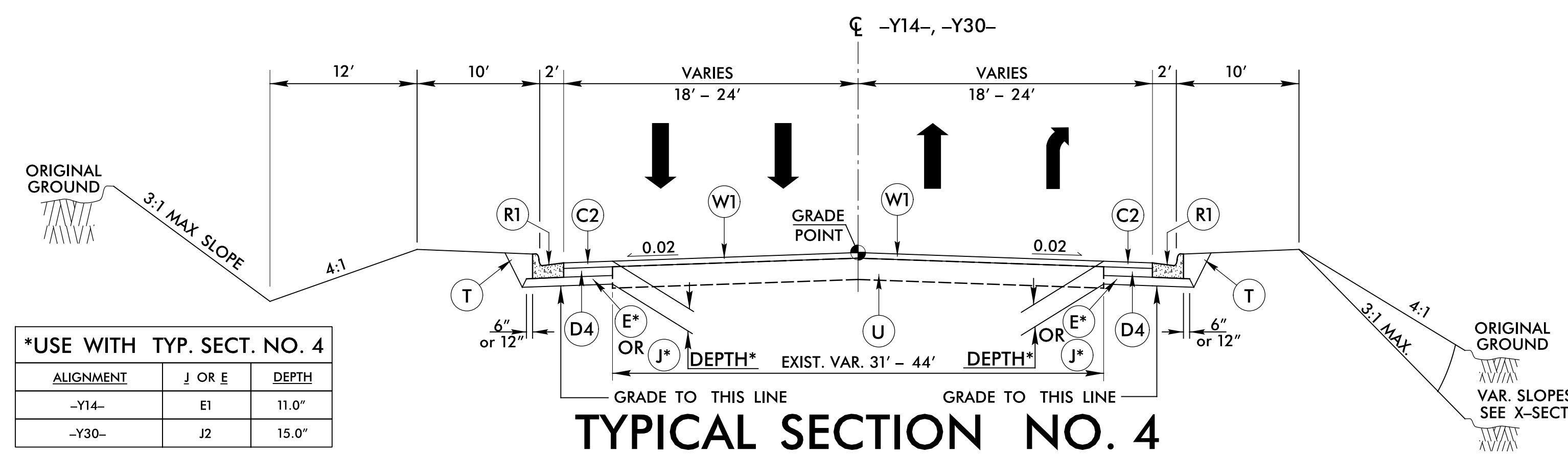
A	12" CONC. APRON
A1	6" CONC. DRWY
C1	3" S9.5D
C2	3" S9.5C
C3	3" S9.5B
C4	VAR. S9.5D
C5	VAR. S9.5C
C6	1 1/2" S9.5D
C7	VAR. S9.5B
D1	2 1/2" I19.0C
D2	3" I19.0C
D3	3 1/2" I19.0C
D4	4" I19.0C
D5	VAR. I19.0C
E1	4" B25.0C
E2	4 1/2" B25.0C
E3	5" B25.0C
E4	11" B25.0C
E5	3" B25.0C
E6	VAR. B25.0C
J1	6" ABC
J2	8" ABC
J3	10" ABC
K1	12" CLASS IV STABILIZATION
N1	GEOTEXTILE STABILIZATION
P	PRIME COAT
R1	2'-6" C & G
R2	MCI (KEYED IN)
R3	1'-6" C & G
R4	SBG
R5	EXPRESS. GUTTER
R6	8" X 18" CONC. CURB
S	4" SIDEWALK
T	EARTH MATERIAL
U	EXIST. PAVEMENT
V1	3" MILLING
V2	RUMBLE STRIPS
V3	1.5" MILLING
W1	WEDGING DETAIL 1
W2	WEDGING DETAIL 2
Y1	BARRIER, TYPE T
Y2	SF BARRIER
Y3	BARRIER, TYPE T1



TYPICAL SECTION NO. 3

USE TYPICAL SECTION NO. 3

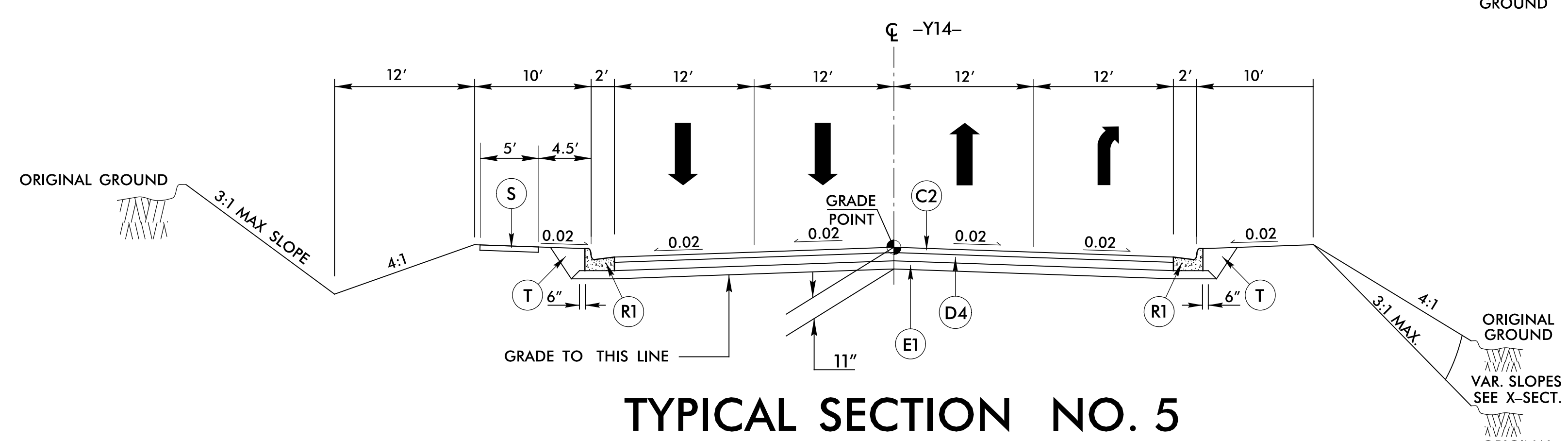
- L- STA. 1408+00.00 TO STA. 1414+50.00
- **L- STA. 1408+00.00 TO STA. 1410+50.00



TYPICAL SECTION NO. 4

USE TYPICAL SECTION NO. 4

- Y14- STA. 15+75.00 TO STA. 17+50.00
- Y30- STA. 19+00.00 TO STA. 21+50.00



TYPICAL SECTION NO. 5

USE TYPICAL SECTION NO. 5

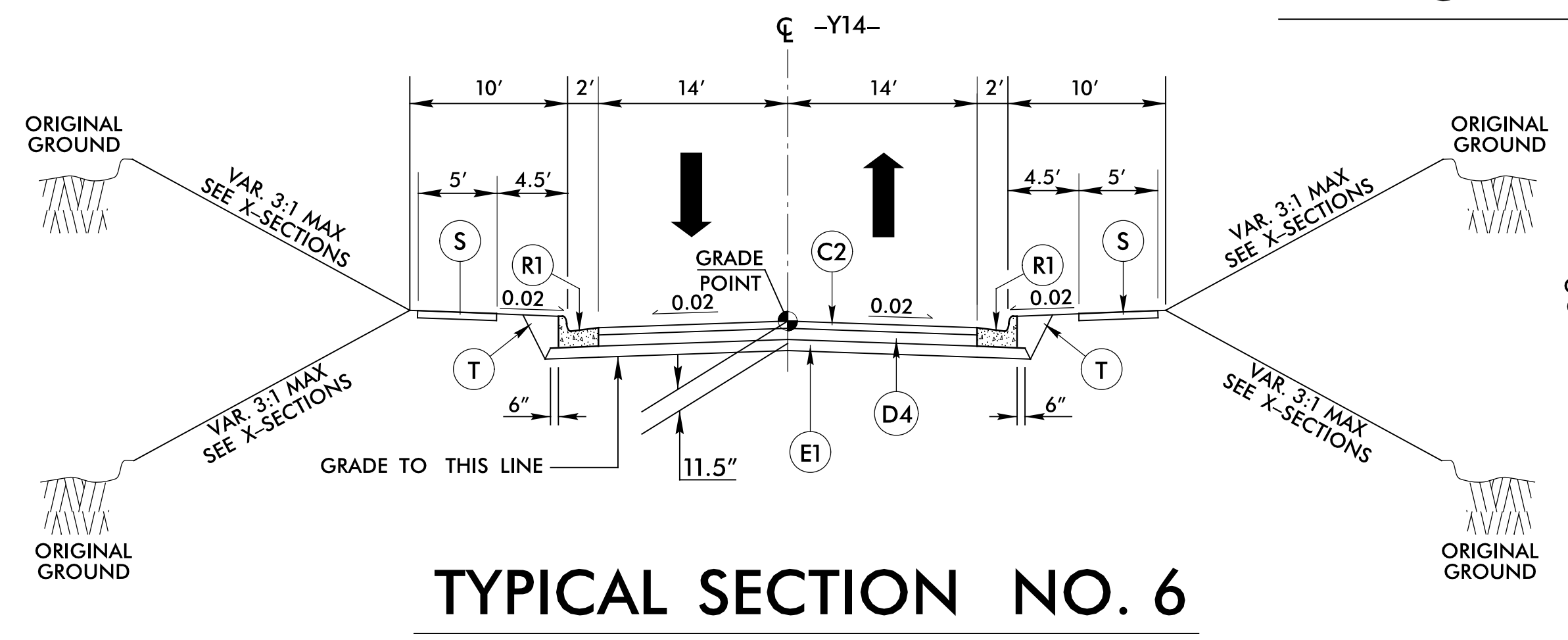
- Y14- STA. 17+50.00 TO STA. 17+75.00
- TRANSITION FROM TYP. SECTION NO. 5 TO TYP. SECTION NO. 6
- Y14- STA. 17+75.00 TO 18+75.00
- BEGIN SIDEWALK LT. -Y14- STA. 17+75.63

USE TYPICAL SECTION NO. 6

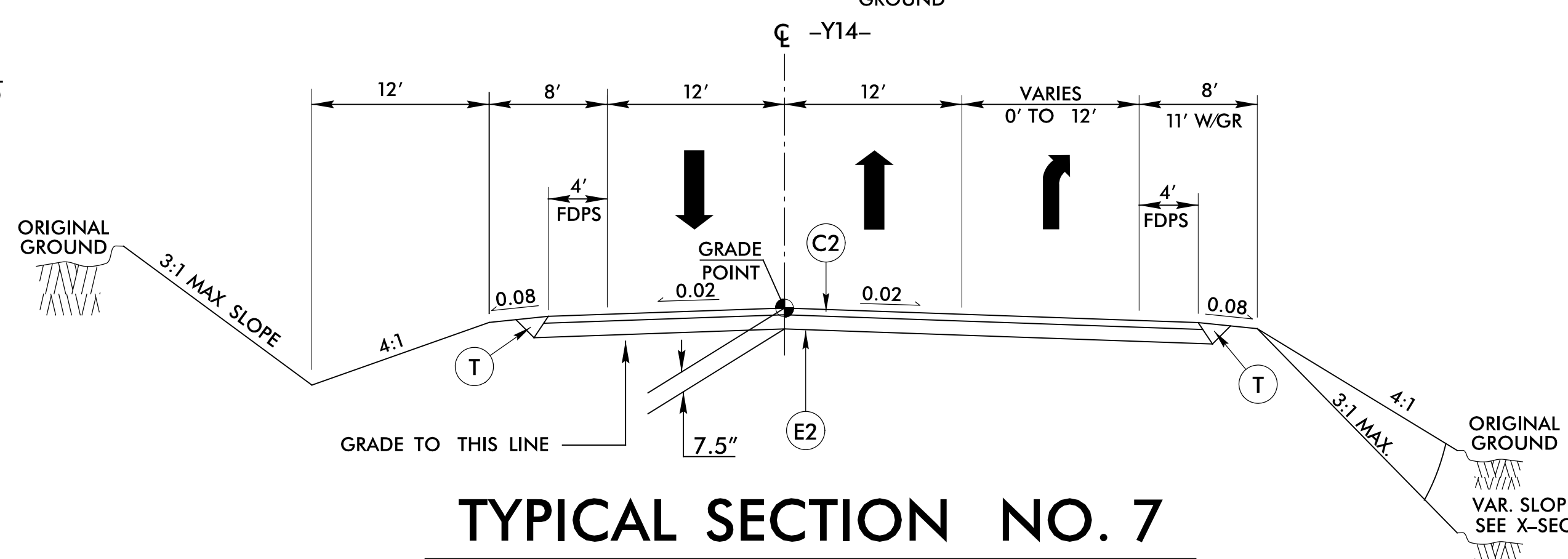
- Y14- STA. 18+75.00 TO STA. 21+80.00 (BEGIN SPUR)
- Y14- STA. STA. 24+65.00 (END SPUR) TO STA. 24+91.78 (BEGIN BRIDGE)
- Y14- STA. 27+18.78 (END BRIDGE) TO STA. 28+55.00 (BEGIN SPUR)
- Y14- STA. 31+35.00 (END SPUR) TO STA. 31+79.24
- END C&G -Y14- STA. 31+79.24
- TRANSITION FROM TYP. SECTION NO. 6 TO TYP. SECTION NO. 7
- Y14- STA. 31+79.24 TO STA. 33+40.00

USE TYPICAL SECTION NO. 7

- Y14- STA. 33+40.00 TO STA. 41+50.00



TYPICAL SECTION NO. 6



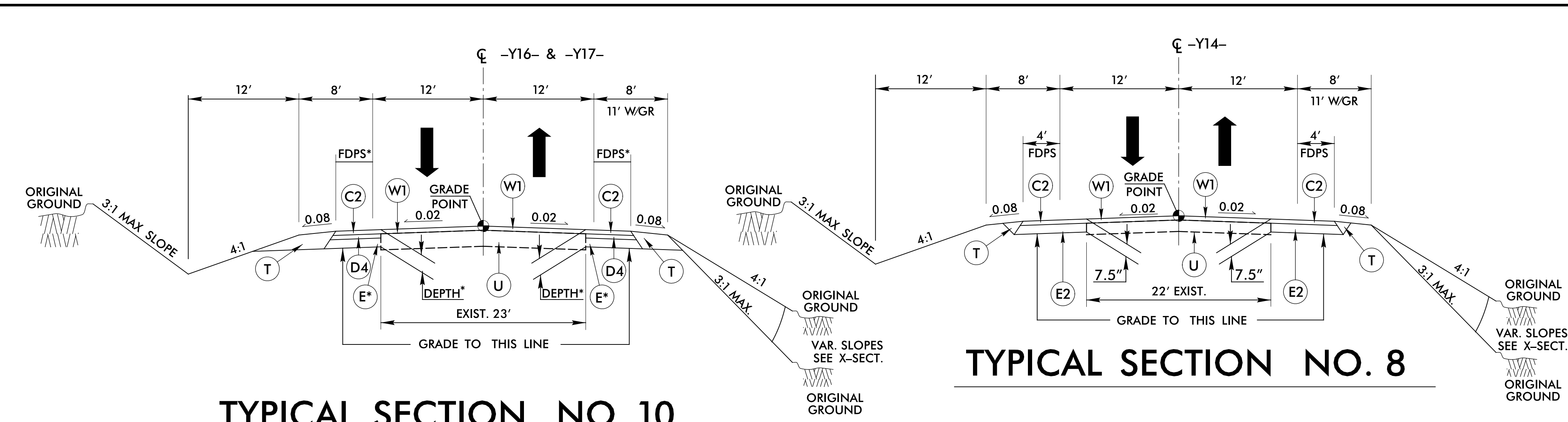
TYPICAL SECTION NO. 7

PROJECT REFERENCE NO. I-5878/1-5883/1-5986B	SHEET NO. 2A-4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER SWAN C. LANCASTER SEAL 027373 5/13/2021	PAVEMENT DESIGN ENGINEER VADIM G. MITCHELL SEAL 031484 5/13/2021
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Michael Baker Engineering, Inc. 1000 Regency Park Suite 800 Cary, NC 27518 NC License: P-1084	3301 SPRING FOREST ROAD RALEIGH, NC 27616 919-872-2666

5/14/2021

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 \$\$\$\$ SUPERVISOR \$\$\$

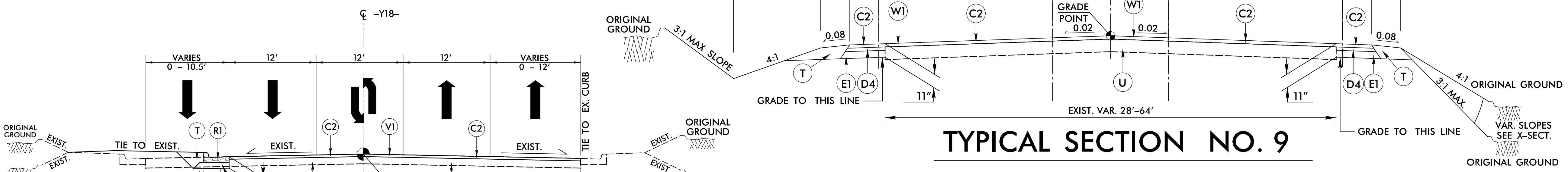
A	12" CONC. APRON
A1	6" CONC. DRWY
C1	3" S9.5D
C2	3" S9.5C
C3	3" S9.5B
C4	VAR. S9.5D
C5	VAR. S9.5C
C6	1 1/2" S9.5D
C7	VAR. S9.5B
D1	2 1/2" I19.0C
D2	3" I19.0C
D3	3 1/2" I19.0C
D4	4" I19.0C
D5	VAR. I19.0C
E1	4" B25.0C
E2	4 1/2" B25.0C
E3	5" B25.0C
E4	11" B25.0C
E5	3" B25.0C
E6	VAR. B25.0C
J1	6" ABC
J2	8" ABC
J3	10" ABC
K1	12" CLASS IV STABILIZATION
N1	GEOTEXTILE STABILIZATION
P	PRIME COAT
R1	2'-6" C & G
R2	MCI (KEYED IN)
R3	1'-6" C & G
R4	SBG
R5	EXPRESS. GUTTER
R6	8" X 18" CONC. CURB
S	4" SIDEWALK
T	EARTH MATERIAL
U	EXIST. PAVEMENT
V1	3" MILLING
V2	RUMBLE STRIPS
V3	1.5" MILLING
W1	WEDGING DETAIL 1
W2	WEDGING DETAIL 2
Y1	BARRIER, TYPE T
Y2	SF BARRIER
Y3	BARRIER, TYPE T1



***USE WITH TYP. SECT. NO. 10**

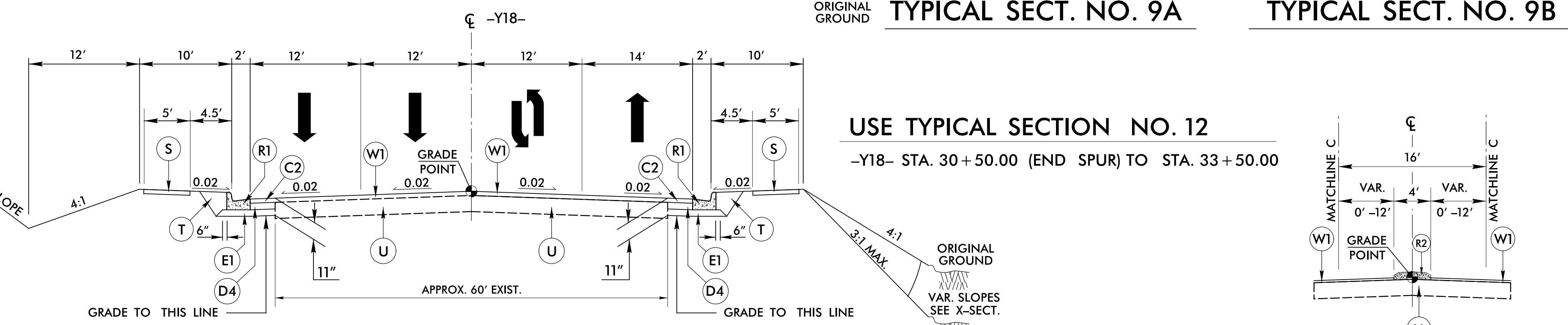
ALIGNMENT	E	DEPTH	FDPS
-Y16-	E1	11"	4'
-Y17-	E1	11"	2'

USE TYPICAL SECTION NO. 10
 -Y16- STA. 11+50.00 TO STA. 16+90.01
 -Y16- STA. 40+75.00 TO STA. 44+00.00
 -Y17- STA. 13+50.00 TO STA. 17+40.00
 -Y17- STA. 37+70.00 TO STA. 40+50.00



TYPICAL SECTION NO. 11

USE TYPICAL SECTION NO. 11
 -Y18- STA. 16+16.00 TO STA. 24+26.18 (EXIST. BRIDGE)
 -Y18- STA. 26+58.30 (EXIST. BRIDGE) TO STA. 26+85.00 (BEGIN SPUR)
 -Y18- STA. 33+50.00 TO STA. 37+38.58



TYPICAL SECTION NO. 12

USE TYPICAL SECTION NO. 12
 -Y18- STA. 30+50.00 (END SPUR) TO STA. 33+50.00

USE TYPICAL SECTION NO. 9

USE TYPICAL SECTION NO. 9A
 -Y15- STA. 5+34.00 TO STA. 23+08.47 RT/LT
 ** -Y15- STA. 13+50.72 TO STA. 23+08.47 LT

USE TYPICAL SECTION NO. 9B
 -Y15- STA. 21+45.00 TO STA. 23+38.00
 -Y15- STA. 27+45.00 TO STA. 29+50.00
 -Y15- STA. 33+62.00 TO STA. 39+20.00
 -Y15- STA. 44+60.13 TO STA. 46+27.95

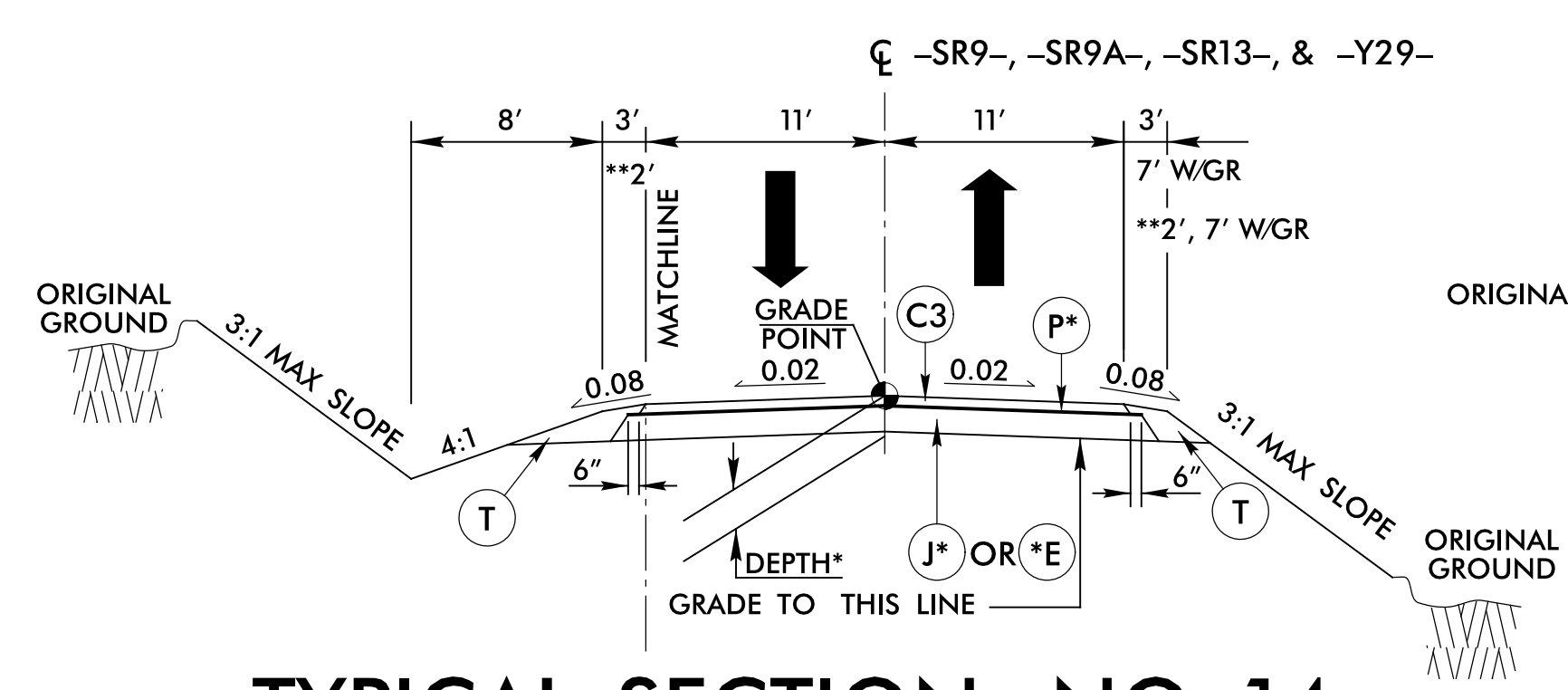
USE TYPICAL SECTION NO. 9C
 -Y15- STA. 20+00.00 TO STA. 21+45.00
 -Y15- STA. 24+43.00 TO STA. 27+45.00
 -Y15- STA. 29+50.00 TO STA. 32+52.00
 -Y15- STA. 39+20.00 TO STA. 42+22.36
 -Y15- STA. 43+08.13 TO STA. 44+60.13

PROJECT REFERENCE NO. I-5878/1-5883/1-5986B	SHEET NO. 2A-5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER SWAN C. LANCASTER SEAL 027373 5/13/2021	PAVEMENT DESIGN ENGINEER VADIM G. MITCHELL SEAL 031484 5/13/2021
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Michael Baker Engineering, Inc. 1301 SPRING FOREST ROAD RALEIGH, NC 27615 919.872.2600	INTERNATIONAL

5/14/2021

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A	12" CONC. APRON
A1	6" CONC. DRWY
C1	3" S9.5D
C2	3" S9.5C
C3	3" S9.5B
C4	VAR. S9.5D
C5	VAR. S9.5C
C6	1 1/2" S9.5D
C7	VAR. S9.5B
D1	2 1/2" I19.0C
D2	3" I19.0C
D3	3 1/2" I19.0C
D4	4" I19.0C
D5	VAR. I19.0C
E1	4" B25.0C
E2	4 1/2" B25.0C
E3	5" B25.0C
E4	11" B25.0C
E5	3" B25.0C
E6	VAR. B25.0C
J1	6" ABC
J2	8" ABC
J3	10" ABC
K1	12" CLASS IV STABILIZATION
N1	GEOTEXTILE STABILIZATION
P	PRIME COAT
R1	2'-6" C & G
R2	MCI (KEYED IN)
R3	1'-6" C & G
R4	SBG
R5	EXPRESS. GUTTER
R6	8" X 18" CONC. CURB
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T	EARTH MATERIAL
U	EXIST. PAVEMENT
V1	3" MILLING
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V3	1.5" MILLING
W1	WEDGING DETAIL 1
W2	WEDGING DETAIL 2
Y1	BARRIER, TYPE T
Y2	SF BARRIER
Y3	BARRIER, TYPE T1



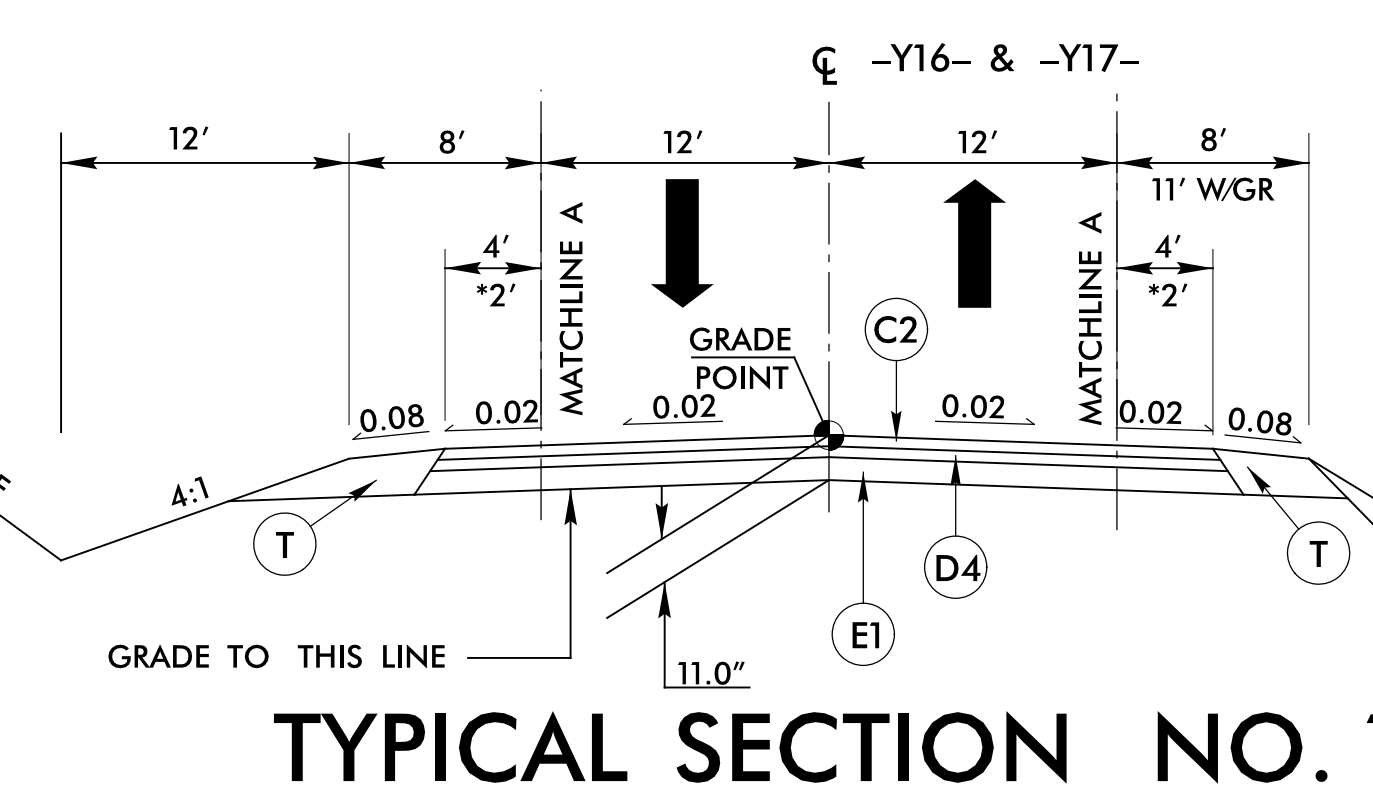
TYPICAL SECTION NO. 14

USE TYPICAL SECTION NO. 14

- SR9- STA. 73+93.42 TO STA. 93+04.22
- SR9A- STA. 10+11.64 TO STA. 27+78.86
- ** -SR13- STA. 10+00.00 TO STA. 59+58.86
- Y29- STA. 20+90.00 TO STA. 27+40.46 (BEGIN BRIDGE)
- Y29- STA. 29+37.96 (END BRIDGE) TO STA. 34+90.00

***USE WITH TYP. SECT. NO. 14**

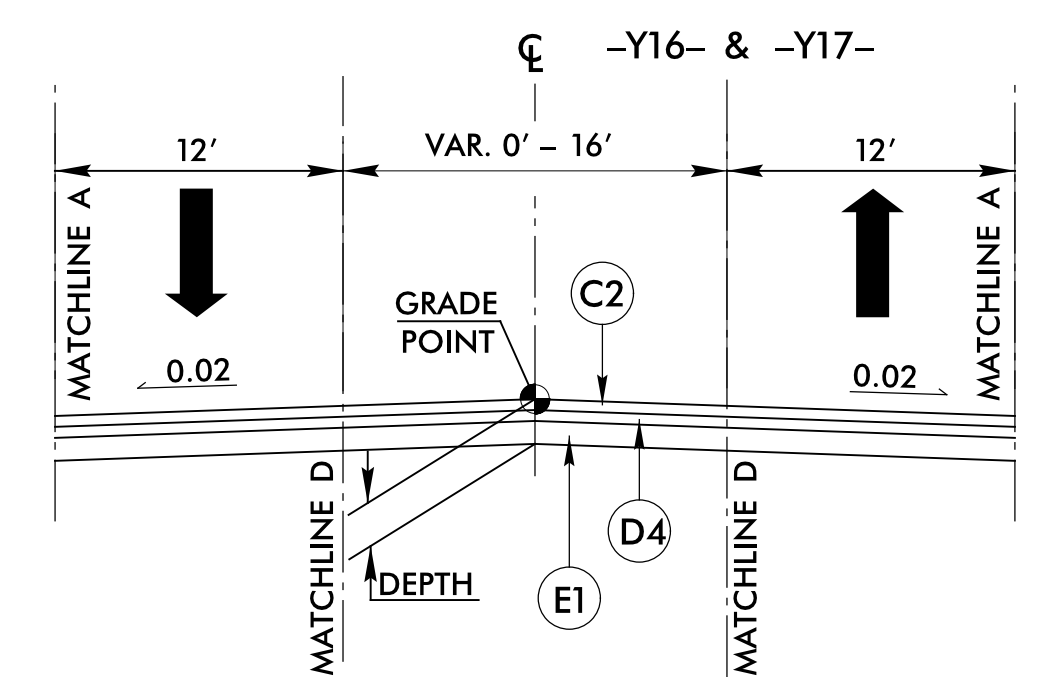
ALIGNMENT	J OR E	DEPTH	PRIME	TRENCH
-SR9-, -SR9A-, -SR13-	J2	11.0"	Y	N
-Y29-	E1	7.0"	N	Y



TYPICAL SECTION NO. 13

USE TYPICAL SECTION NO. 13

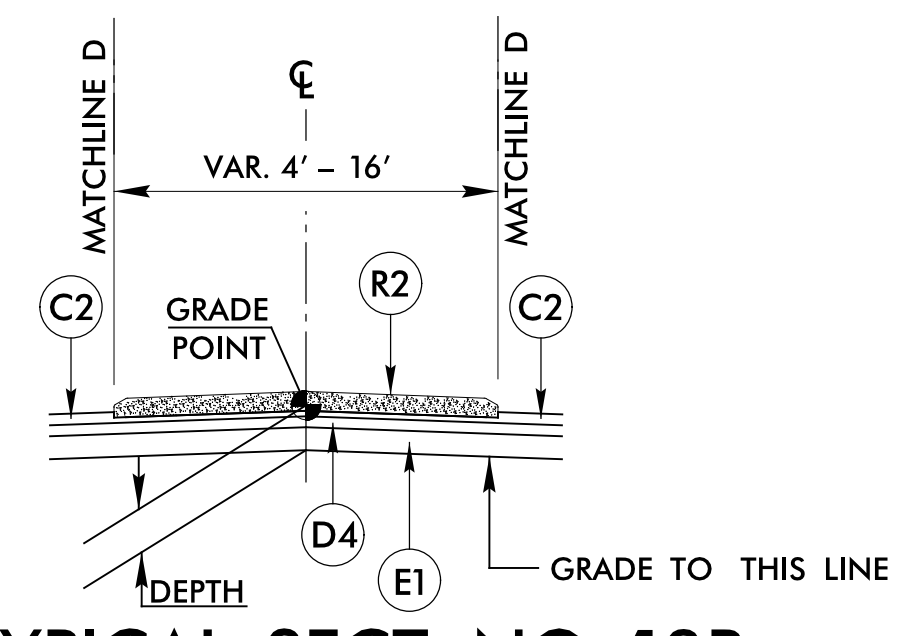
- Y16- STA. 16+90.01 TO STA. 26+14.44 (BEGIN BRIDGE)
- Y16- STA. 28+03.94 (END BRIDGE) TO STA. 40+75.00
- *-Y17- STA. 17+40.00 TO STA. 25+73.98 (BEGIN BRIDGE)
- *-Y17- STA. 27+87.48 (END BRIDGE) TO STA. 37+70.00



TYPICAL SECT. NO. 13A

USE TYPICAL SECTION NO. 13A

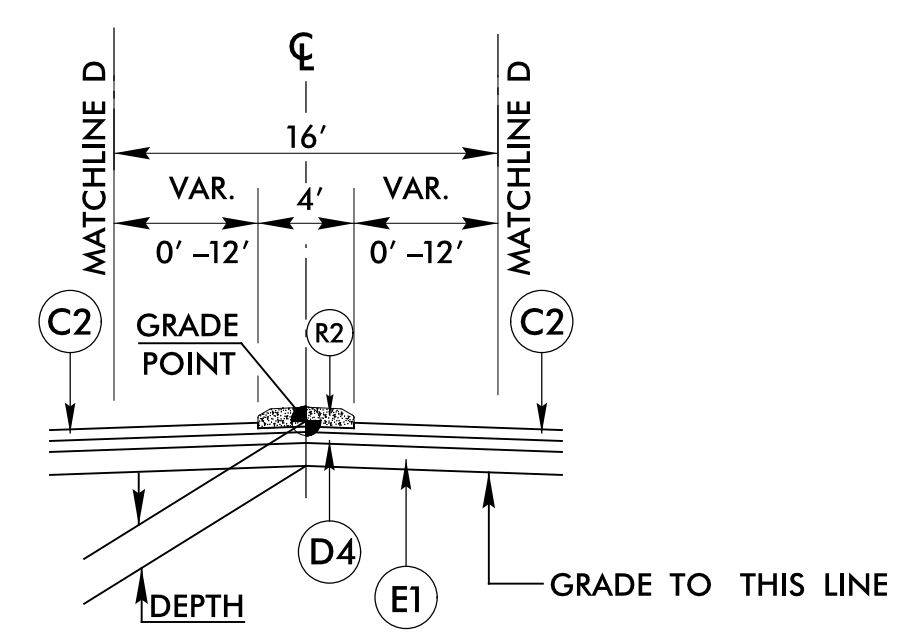
- Y16- STA. 18+22.79 TO STA. 26+14.44 (BEGIN BRIDGE)
- Y16- STA. 28+03.94 (END BRIDGE) TO STA. 35+54.54
- Y17- STA. 16+83.47 TO STA. 25+73.98 (BEGIN BRIDGE)
- Y17- STA. 27+87.48 (END BRIDGE) TO STA. 37+17.41



TYPICAL SECT. NO. 13B

USE TYPICAL SECTION NO. 13B

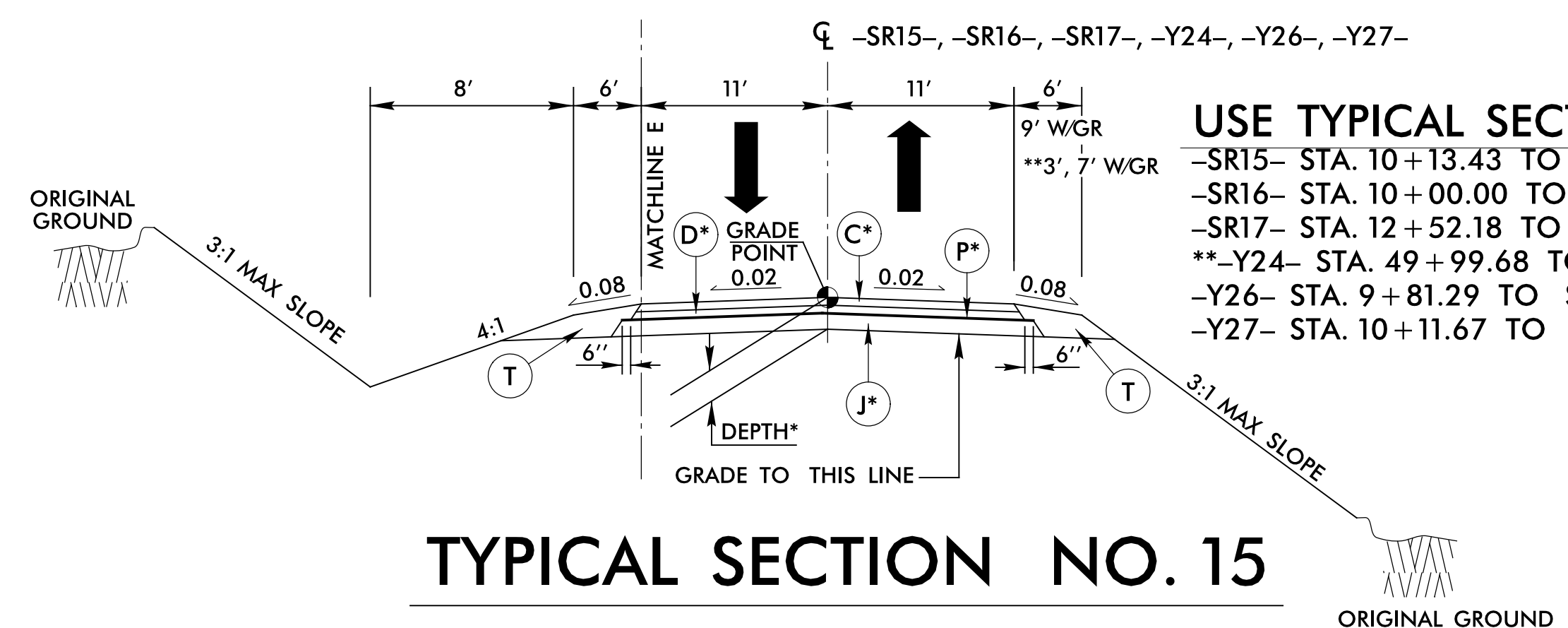
- Y16- STA. 19+40.79 TO STA. 23+10.79
- Y16- STA. 30+66.54 TO STA. 34+36.56
- Y17- STA. 18+01.47 TO STA. 21+71.47
- Y17- STA. 32+29.41 TO STA. 35+99.43



TYPICAL SECT. NO. 13C

USE TYPICAL SECTION NO. 13C

- Y16- STA. 23+72.63 +/- TO STA. 30+03.55 +/-
- Y17- STA. 22+40.62 +/- TO STA. 31+56.48 +/-



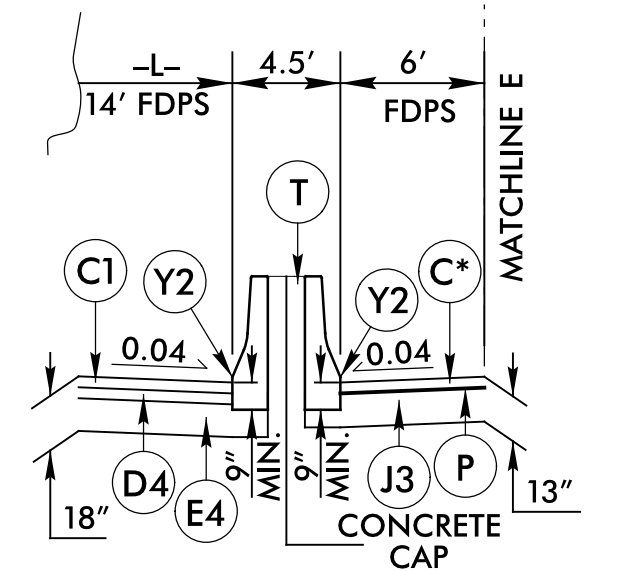
TYPICAL SECTION NO. 15

USE TYPICAL SECTION NO. 15

- SR15- STA. 10+13.43 TO STA. 98+31.31
- SR16- STA. 10+00.00 TO STA. 85+93.68
- SR17- STA. 12+52.18 TO STA. 65+99.36
- ** -Y24- STA. 49+99.68 TO STA. 69+53.13
- Y26- STA. 9+81.29 TO STA. 30+84.23
- Y27- STA. 10+11.67 TO STA. 10+92.32

***USE WITH TYP. SECT. NO. 15**

ALIGNMENT	C	D	J	PRIME	DEPTH
-SR15-, -Y26-	C3	NA	J2	Y	11.0"
-SR16-	C3	D1	J2	N	13.5"
-SR17-, -Y27-	C3	NA	J3	Y	13.0"
-Y24-	C2	D4	J2	N	15.0"



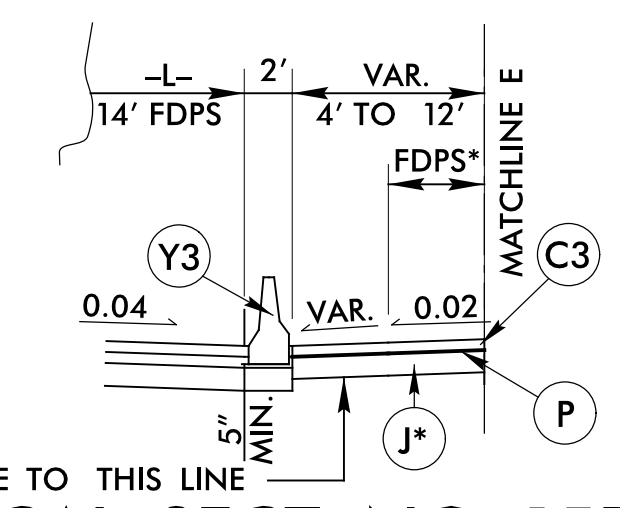
TYPICAL SECT. NO. 15A

USE TYPICAL SECTION NO. 15A

- SR17- STA. 61+78.34 TO STA. 65+99.36
- L- STA. 1246+00.00 TO STA. 1251+00.00

***USE WITH TYP. SECT. NO. 15B**

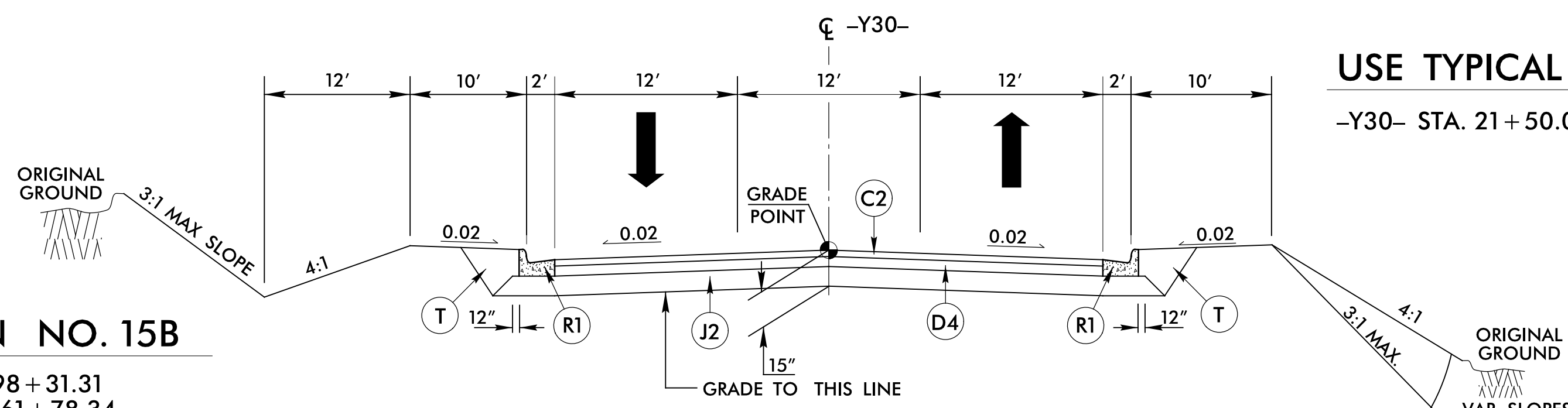
ALIGNMENT	J	FDPS
-SR15-	J2	4'
-SR17-	J3	6'



TYPICAL SECT. NO. 15B

USE TYPICAL SECTION NO. 15B

- SR15- STA. 32+73.41 TO STA. 98+31.31
- SR17- STA. 55+46.63 TO STA. 61+78.34



TYPICAL SECTION NO. 16

USE TYPICAL SECTION NO. 16

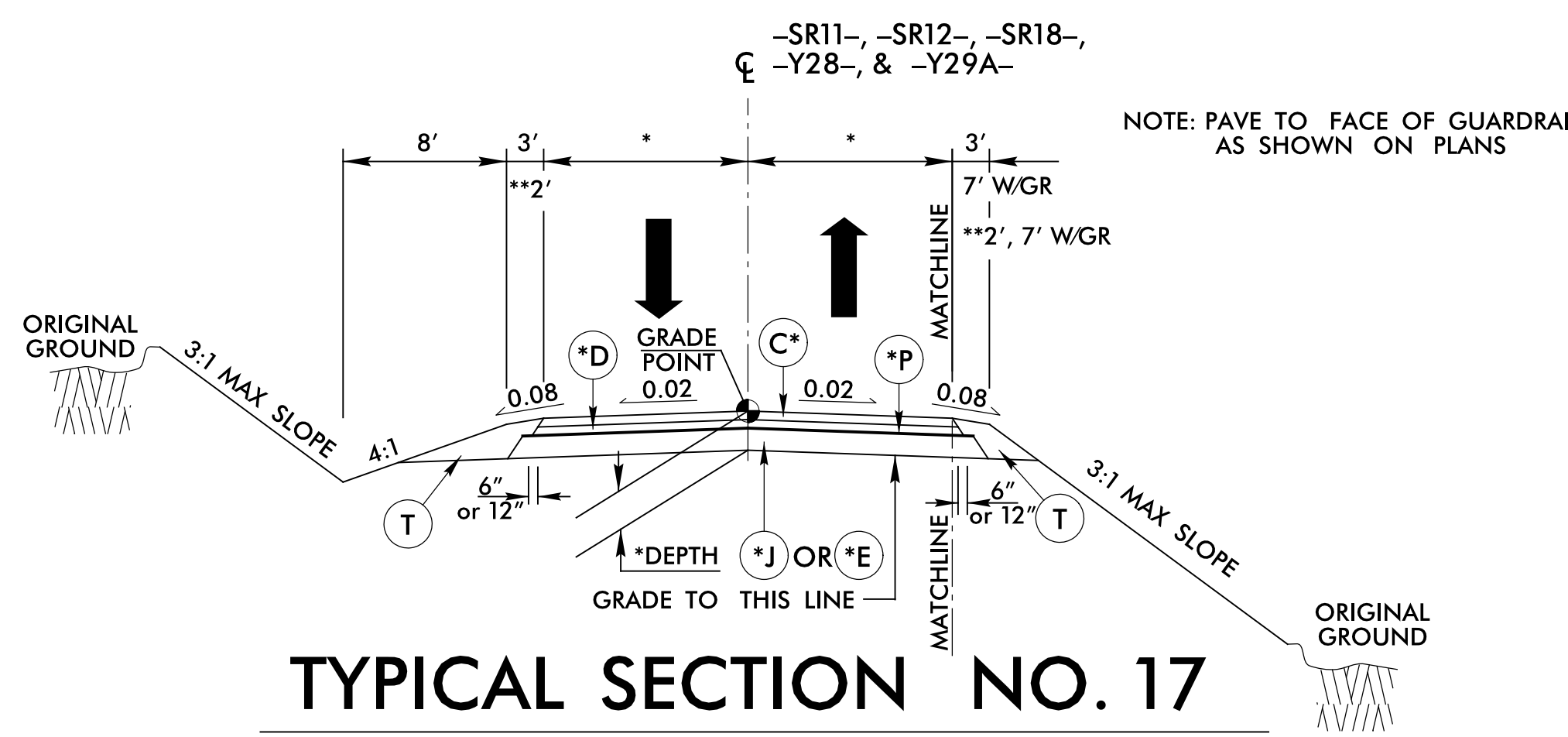
- Y30- STA. 21+50.00 TO STA. 23+15.00

PROJECT REFERENCE NO. I-5878/1-5883/1-5986B	SHEET NO. 2A-6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER SWAN C. LANCASTER SEAL 027373 5/13/2021	PAVEMENT DESIGN ENGINEER VADIM G. MITCHELL SEAL 031484 5/13/2021
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Michael Baker Engineering, Inc. 1800 Regency Park Suite 800 Cary, NC 27518 Tel: 919.241.1000 Fax: 919.241.1001	3381 SPRING FOREST ROAD RALEIGH, NC 27616 919.872.2666

5/14/2021

P:\APR-2021\6106_P2\1-5986B-Rd4-typ.dgn

A	12" CONC. APRON
A1	6" CONC. DRWY
C1	3" S9.5D
C2	3" S9.5C
C3	3" S9.5B
C4	VAR. S9.5D
C5	VAR. S9.5C
C6	1 1/2" S9.5D
C7	VAR. S9.5B
D1	2 1/2" I19.0C
D2	3" I19.0C
D3	3 1/2" I19.0C
D4	4" I19.0C
D5	VAR. I19.0C
E1	4" B25.0C
E2	4 1/2" B25.0C
E3	5" B25.0C
E4	11" B25.0C
E5	3" B25.0C
E6	VAR. B25.0C
J1	6" ABC
J2	8" ABC
J3	10" ABC
K1	12" CLASS IV STABILIZATION
N1	GEOTEXTILE STABILIZATION
P	PRIME COAT
R1	2'-6" C & G
R2	MCI (KEYED IN)
R3	1'-6" C & G
R4	SBG
R5	EXPRESS. GUTTER
R6	8" X 18" CONC. CURB
S	4" SIDEWALK
T	EARTH MATERIAL
U	EXIST. PAVEMENT
V1	3" MILLING
V2	RUMBLE STRIPS
V3	1.5" MILLING
W1	WEDGING DETAIL 1
W2	WEDGING DETAIL 2
Y1	BARRIER, TYPE T
Y2	SF BARRIER
Y3	BARRIER, TYPE T1



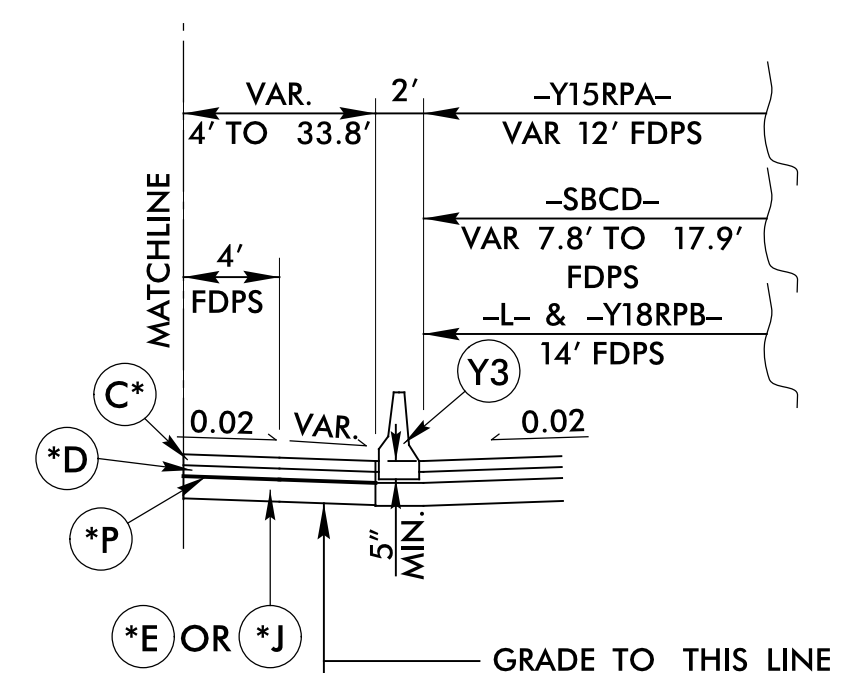
TYPICAL SECTION NO. 17

***USE WITH TYP. SECT. NO. 17 & 17A**

ALIGNMENT	LANE WIDTH	C	D	J OR E	PRIME	DEPTH	TRENCH
-SR12-	10'	C3	NA	J2	Y	11.0"	N
-SR18-	11'	C3	NA	J2	Y	11.0"	N
-Y28-, -SR11-	11'	C3	D4	J2	N	15.0"	N
-Y29A-	10'	C3	NA	E1	N	7.0"	Y

USE TYPICAL SECTION NO. 17

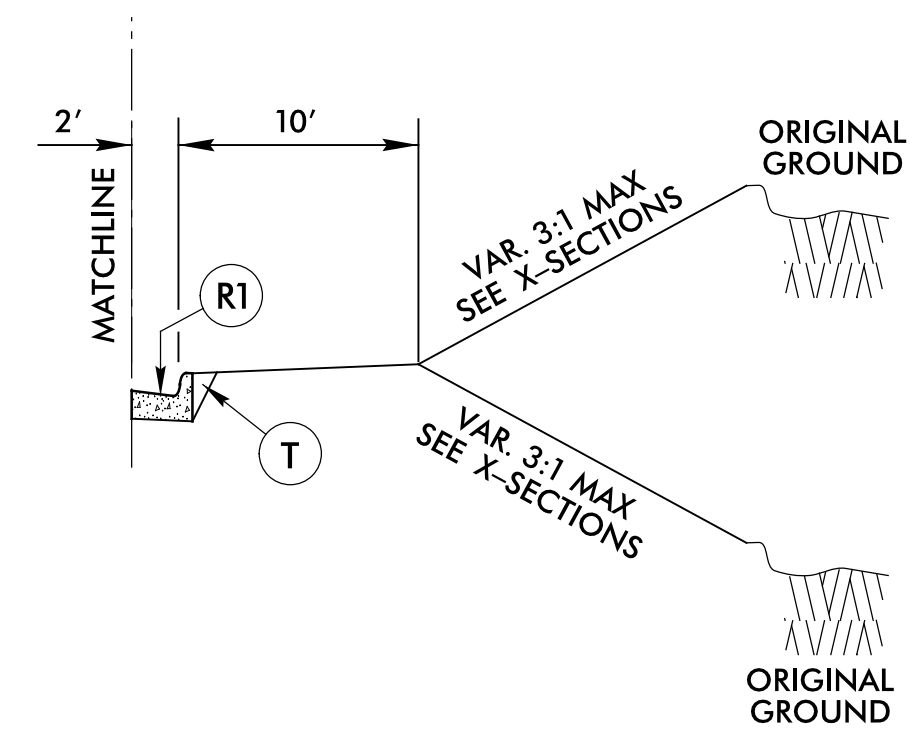
-SR11- STA. 10+50.00 TO STA. 36+00.00
 -SR12- STA. 10+13.67 TO STA. 22+81.87
 -SR18- STA. 10+00.00 TO STA. 25+35.10
 -Y28- STA. 17+50.00 TO STA. 29+80.00
 ** -Y29A- STA. 7+71.69 TO STA. 39+88.01



TYPICAL SECT. NO. 17A

USE TYPICAL SECTION NO. 17A

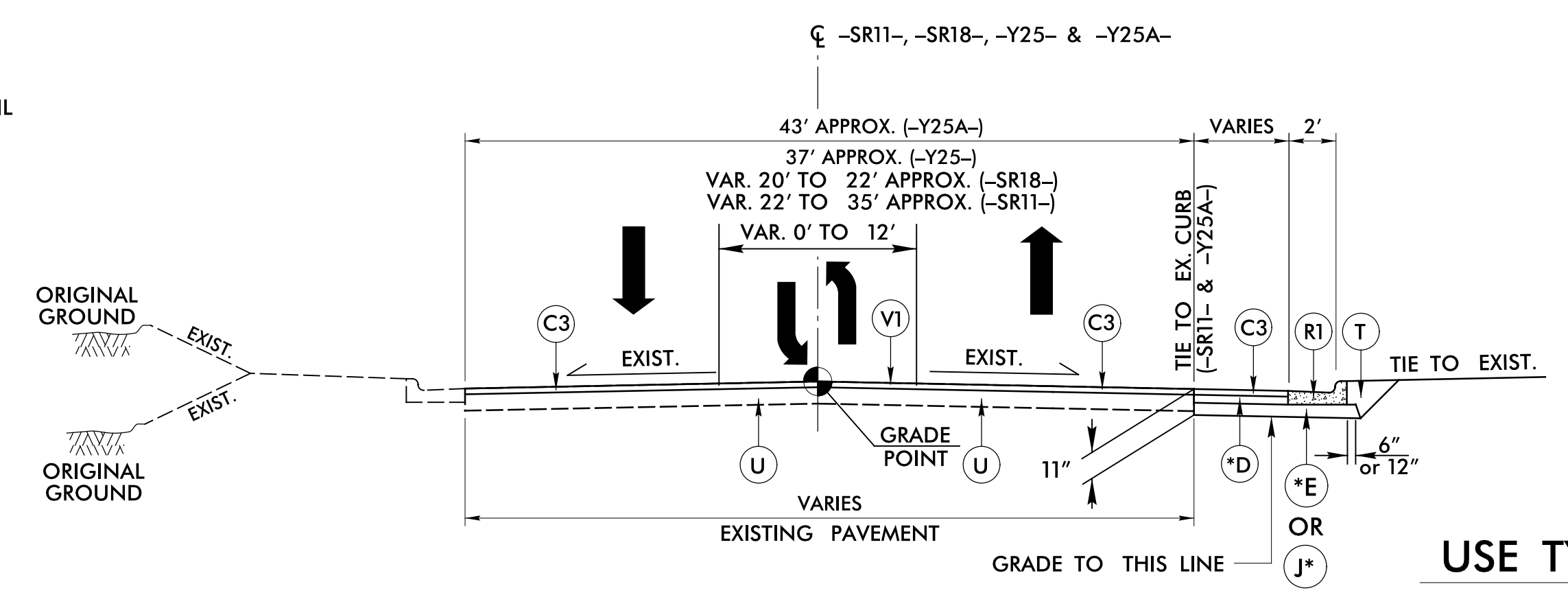
-SR11- STA. 13+07.77 TO STA. 19+20.85*
 -SR18- STA. 13+60.38 TO STA. 22+98.21
 -Y28- STA. 21+45.97 TO STA. 28+73.04
 * SEE STRUCTURE -WL7- PLANS FOR SPECIAL BARRIER IN LIEU OF STANDARD BARRIER



TYPICAL SECT. NO. 17B

USE TYPICAL SECTION NO. 17B

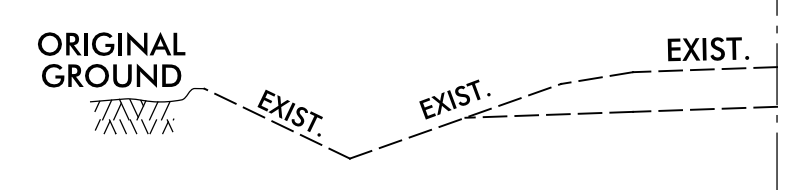
-Y28- STA. 21+89.66 TO STA. 30+97.23 LT
 -Y28- STA. 28+73.82 TO STA. 31+00.00 RT



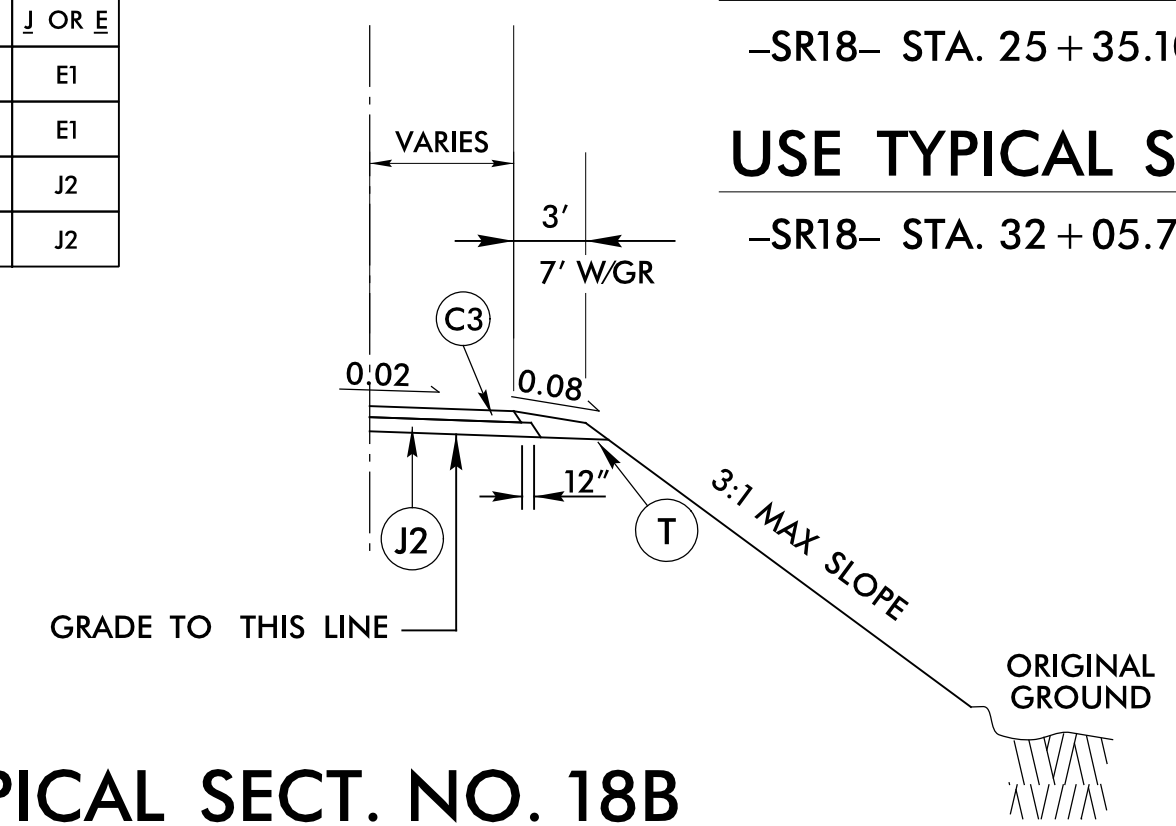
TYPICAL SECTION NO. 18

***USE WITH TYP. SECT. NO. 18**

ALIGNMENT	D	J OR E
-Y25-	D4	E1
-Y25A-	D4	E1
-SR18-	NA	J2
-SR11-	D4	J2



TYPICAL SECT. NO. 18A



TYPICAL SECT. NO. 18B

USE TYPICAL SECTION NO. 18

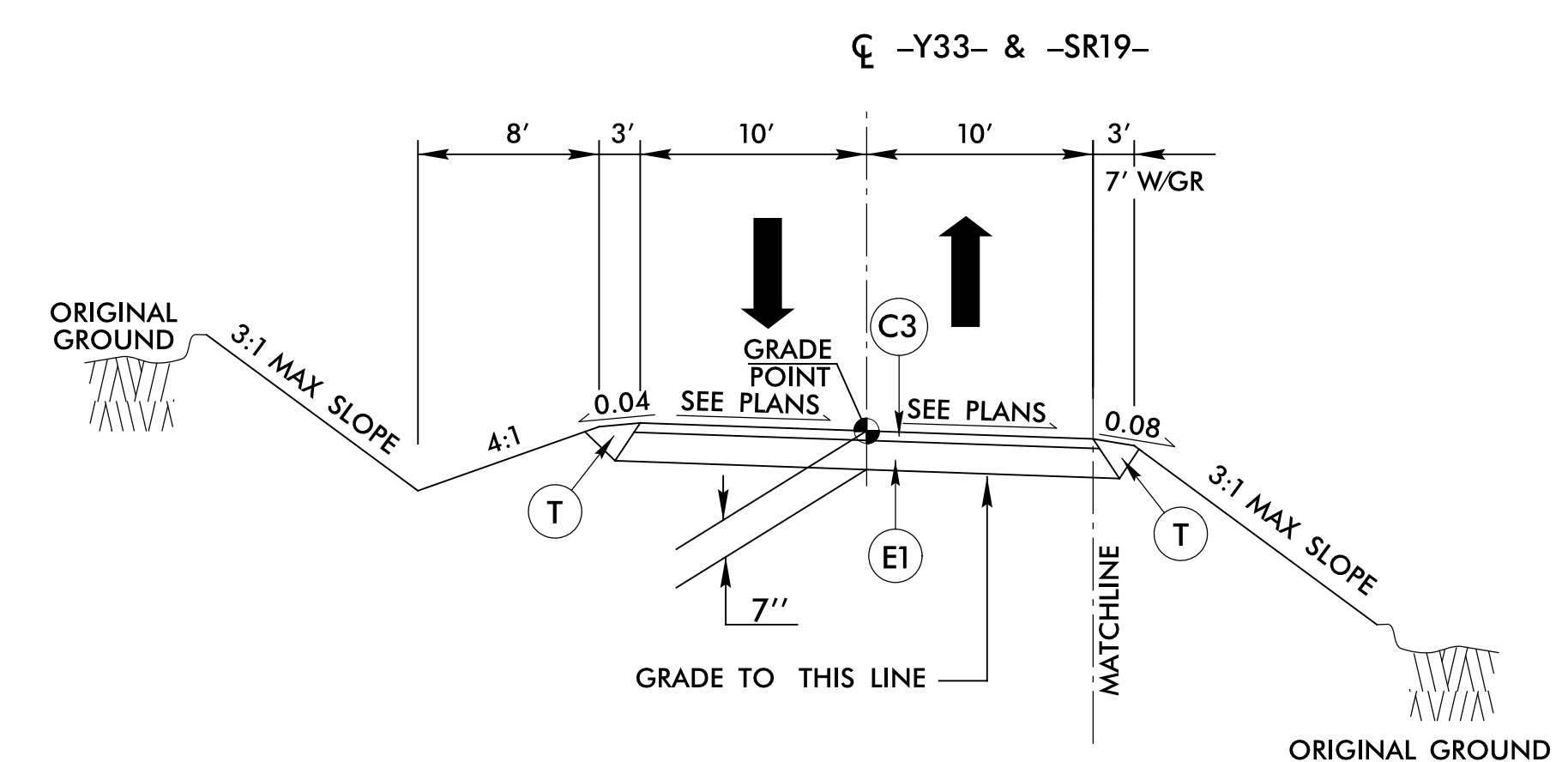
-SR11- STA. 10+00.00 TO STA. 10+50.00
 -SR18- STA. 25+35.10 TO STA. 36+10.00
 -Y25- STA. 12+40.00 TO STA. 14+28.52
 -Y25A- STA. 10+84.53 TO STA. 25+55.40

USE TYPICAL SECTION NO. 18A

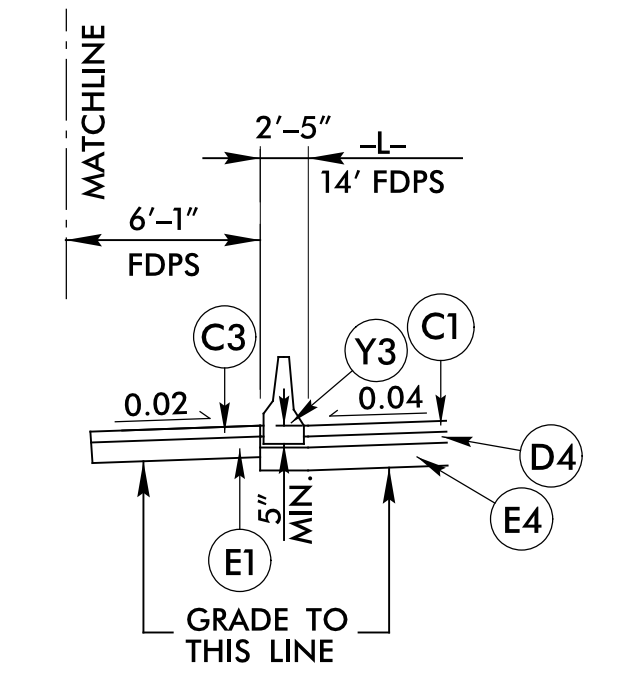
-SR18- STA. 25+35.10 TO STA. 32+05.73 RT/LT

USE TYPICAL SECTION NO. 18B

-SR18- STA. 32+05.73 TO STA. 36+10.00 RT/LT



TYPICAL SECTION NO. 19



TYPICAL SECT. NO. 19A

USE TYPICAL SECTION NO. 19

-SR19- STA. 12+00.00 TO STA. 28+98.68
 -Y33- STA. 12+00.00 TO STA. 42+10.00

USE TYPICAL SECTION NO. 19A

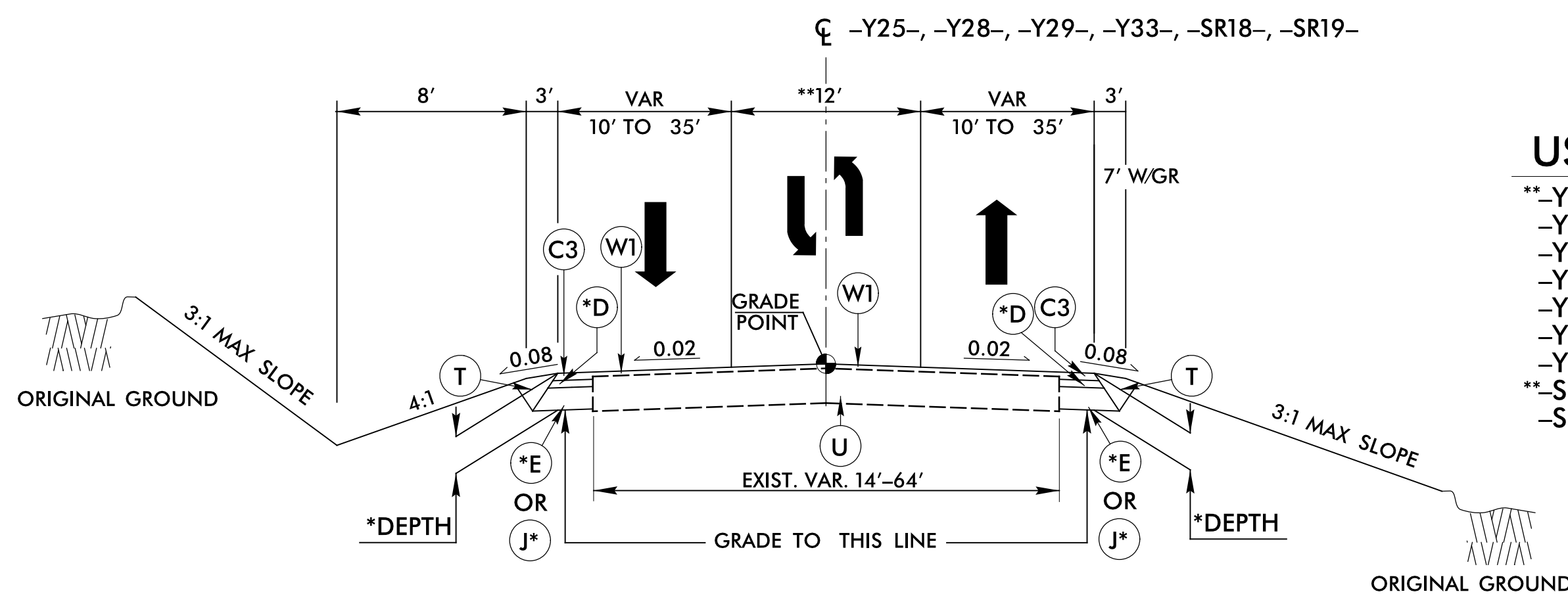
-SR19- STA. 12+32.52 TO STA. 28+98.68

PROJECT REFERENCE NO. I-5878/1-5883/1-5986B	SHEET NO. 2A-7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER SWAN C. LANCASTER SEAL 027373 5/13/2021	PAVEMENT DESIGN ENGINEER VADIM G. NITICHENKO SEAL 031484 5/13/2021
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Michael Baker Engineering, Inc. INTERNATIONAL	3381 SPRING FOREST ROAD RALEIGH, NC 27616 919.872.2600

5/14/2021

05 MAY 2021 13:10 P:\5883\1-5986B-Rd4-typ.dgn

A	12" CONC. APRON
A1	6" CONC. DRWY
C1	3" S9.5D
C2	3" S9.5C
C3	3" S9.5B
C4	VAR. S9.5D
C5	VAR. S9.5C
C6	1 1/2" S9.5D
C7	VAR. S9.5B
D1	2 1/2" I19.0C
D2	3" I19.0C
D3	3 1/2" I19.0C
D4	4" I19.0C
D5	VAR. I19.0C
E1	4" B25.0C
E2	4 1/2" B25.0C
E3	5" B25.0C
E4	11" B25.0C
E5	3" B25.0C
E6	VAR. B25.0C
J1	6" ABC
J2	8" ABC
J3	10" ABC
K1	12" CLASS IV STABILIZATION
N1	GEOTEXTILE STABILIZATION
P	PRIME COAT
R1	2'-6" C & G
R2	MCI (KEYED IN)
R3	1'-6" C & G
R4	SBG
R5	EXPRESS. GUTTER
R6	8" X 18" CONC. CURB
S	4" SIDEWALK
T	EARTH MATERIAL
U	EXIST. PAVEMENT
V1	3" MILLING
V2	RUMBLE STRIPS
V3	1.5" MILLING
W1	WEDGING DETAIL 1
W2	WEDGING DETAIL 2
Y1	BARRIER, TYPE T
Y2	SF BARRIER
Y3	BARRIER, TYPE T1



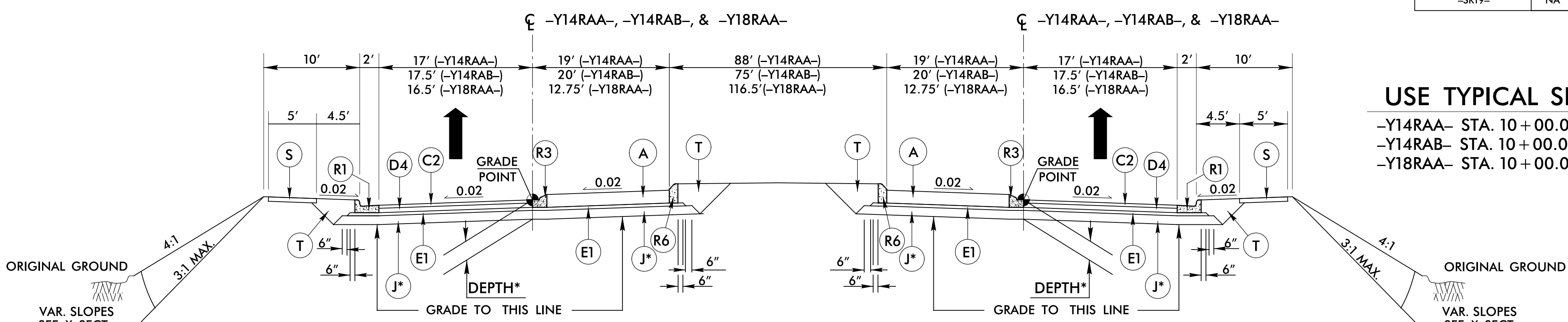
TYPICAL SECTION NO. 20

USE TYPICAL SECTION NO. 20

- **Y25- STA. 10+28.81 TO STA. 12+40.00
- Y28- STA. 15+75.00 TO STA. 17+50.00
- Y28- STA. 29+80.00 TO STA. 31+00.00
- Y29- STA. 20+00.00 TO STA. 20+90.00
- Y29- STA. 34+90.00 TO STA. 35+50.00
- Y33- STA. 10+50.00 TO STA. 12+00.00
- Y33- STA. 42+10.00 TO STA. 45+65.00
- **SR18- STA. 36+10.00 TO STA. 37+30.49
- SR19- STA. 10+45.00 TO STA. 12+00.00

***USE WITH TYP. SECT. NO. 20**

ALIGNMENT	D	J OR E	DEPTH	TRENCH
-Y25-	D4	E1	11.0"	N
-Y28-	D4	J2	15.0"	N
-Y29-	NA	E1	7.0"	Y
-Y33-	NA	E1	7.0"	Y
-SR18-	NA	J2	11.0"	N
-SR19-	NA	E1	7.0"	Y



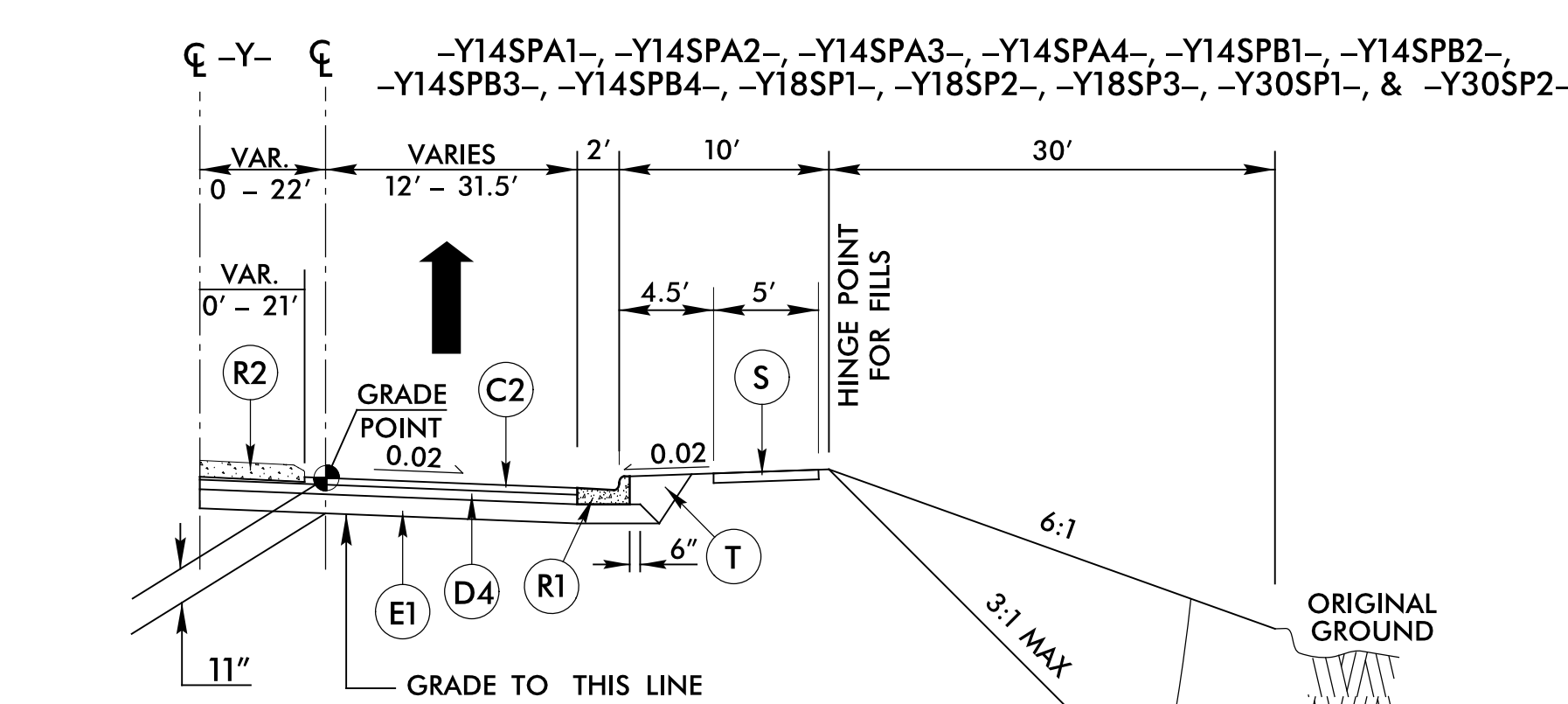
TYPICAL SECTION NO. 21

USE TYPICAL SECTION NO. 21

- Y14RAA- STA. 10+00.00 TO STA. 13+95.84
- Y14RAB- STA. 10+00.00 TO STA. 13+61.28
- Y18RAA- STA. 10+00.00 TO STA. 14+46.11

***USE WITH TYP. SECT. NO. 21**

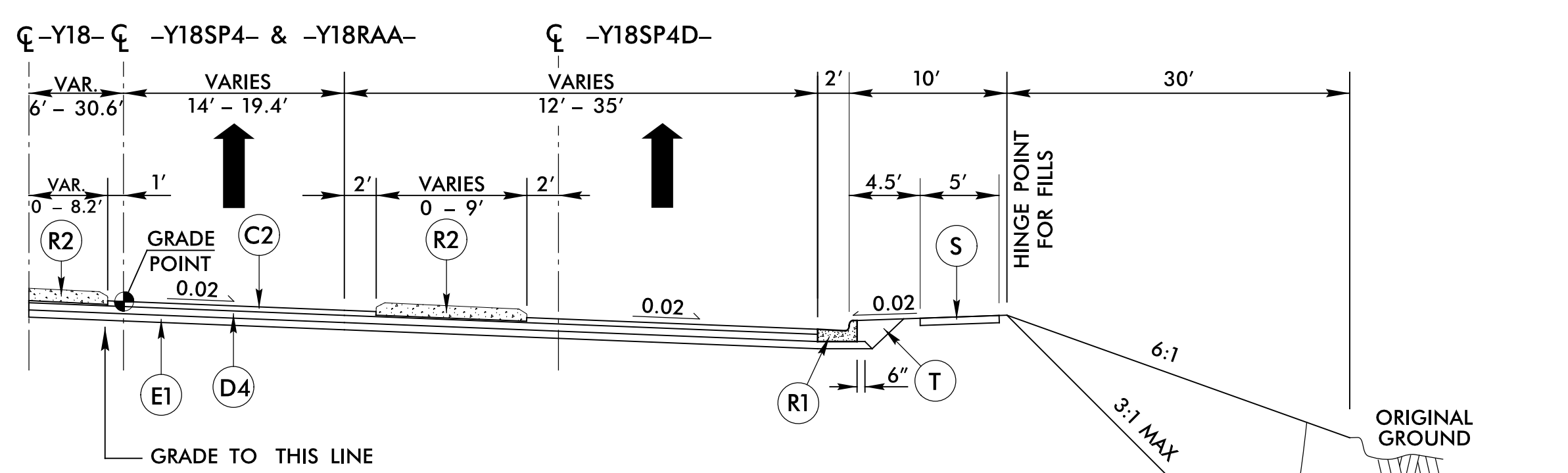
ALIGNMENT	J	DEPTH
-Y18RAA-	J2	19.0"
-Y14RAA-	NA	11.0"
-Y14RAB-	NA	11.0"



TYPICAL SECTION NO. 22

USE TYPICAL SECTION NO. 22

- Y14SPA1- STA. 10+40.11 TO STA. 11+05.20
- Y14SPA2- STA. 10+00.00 TO STA. 10+65.09
- Y14SPA3- STA. 10+40.38 TO STA. 11+09.32
- Y14SPA4- STA. 10+00.00 TO STA. 10+68.72
- Y14SPB1- STA. 10+41.07 TO STA. 11+11.54
- Y14SPB2- STA. 10+00.00 TO STA. 10+69.54
- Y14SPB3- STA. 10+40.02 TO STA. 11+08.70
- Y14SPB4- STA. 10+00.00 TO STA. 10+68.68
- Y18SP1- STA. 10+39.74 TO STA. 11+38.32
- Y18SP2- STA. 10+00.00 TO STA. 10+96.77
- Y18SP3- STA. 10+35.81 TO STA. 11+36.81
- Y30SP1- STA. 10+35.81 TO STA. 11+51.50
- Y30SP2- STA. 10+00.00 TO STA. 11+29.18



TYPICAL SECTION NO. 22A

USE TYPICAL SECTION NO. 22A

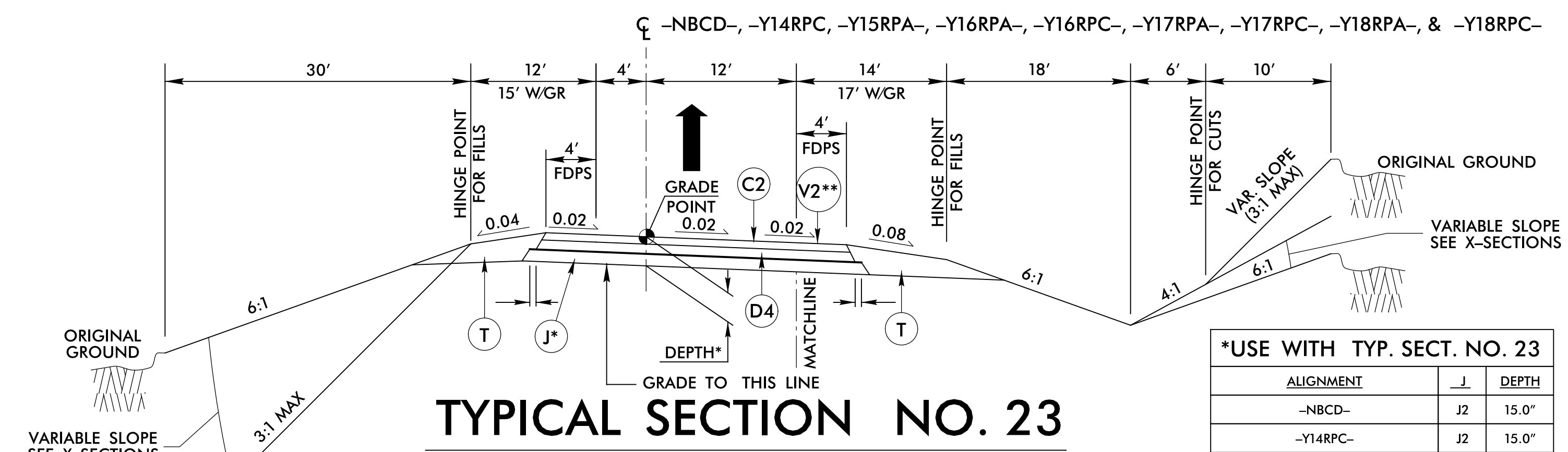
- Y18SP4- STA. 10+00.00 TO STA. 11+42.37
- Y18RAA- STA. 11+74.23 TO STA. 11+82.60

PROJECT REFERENCE NO. I-5878/1-5883/1-5986B	SHEET NO. 2A-8
RW SHEET NO.	
ROADWAY DESIGN ENGINEER SWAN C. LANCASTER SEAL 027373 5/13/2021	PAVEMENT DESIGN ENGINEER WADSWORTH G. MITCHELL SEAL 031484 5/13/2021
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Michael Baker Engineering, Inc. INTERNATIONAL	3381 SPRING FOREST ROAD RALEIGH, NC 27616 919.872.2666

5/14/2021

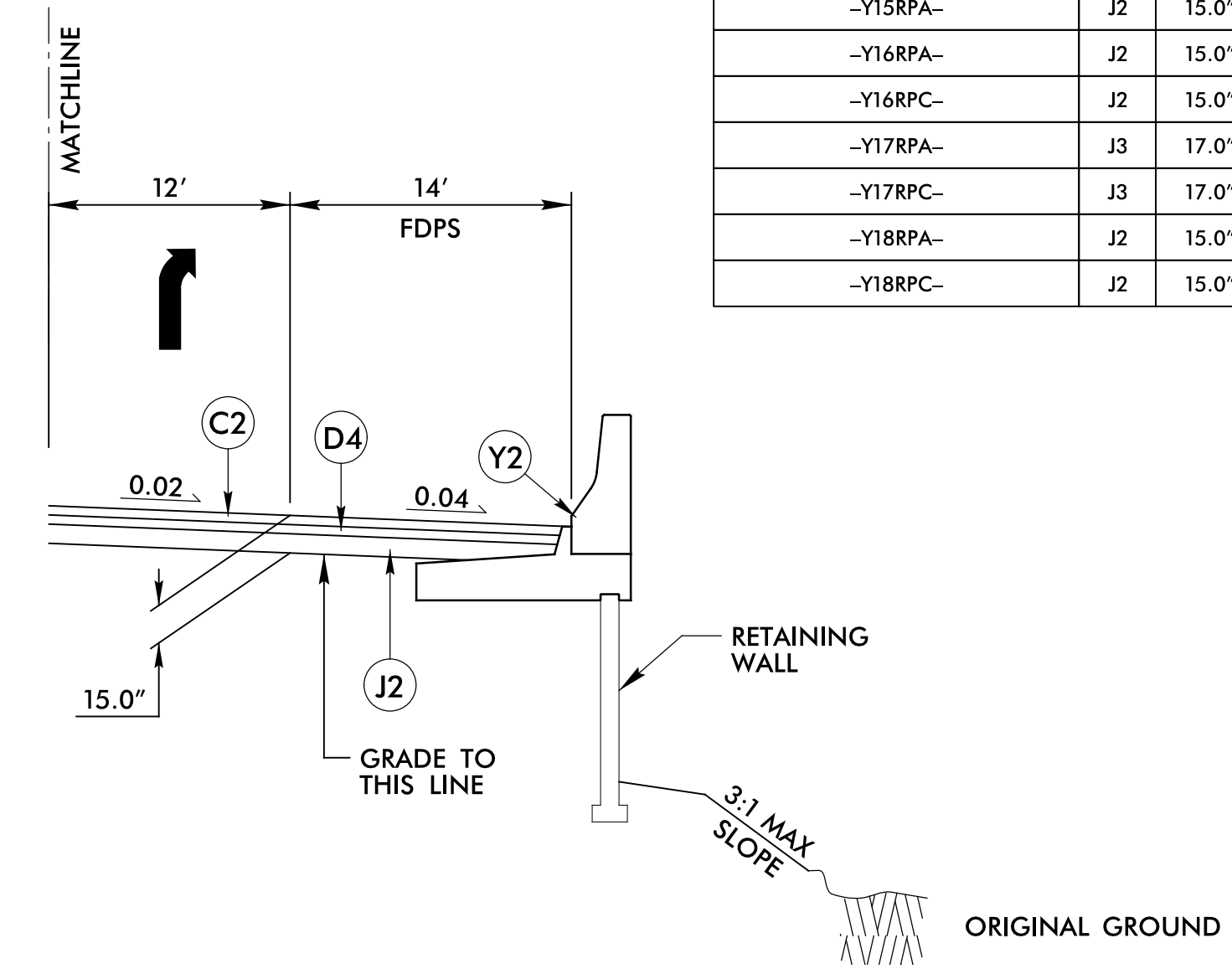
05 MAY 2021 13:10
 P:\5986B-1\5986B-Rd4-typ.dgn
 \$\$\$\$ SUPERVISOR \$\$\$

A	12" CONC. APRON
A1	6" CONC. DRWY
C1	3" S9.5D
C2	3" S9.5C
C3	3" S9.5B
C4	VAR. S9.5D
C5	VAR. S9.5C
C6	1 1/2" S9.5D
C7	VAR. S9.5B
D1	2 1/2" I19.0C
D2	3" I19.0C
D3	3 1/2" I19.0C
D4	4" I19.0C
D5	VAR. I19.0C
E1	4" B25.0C
E2	4 1/2" B25.0C
E3	5" B25.0C
E4	11" B25.0C
E5	3" B25.0C
E6	VAR. B25.0C
J1	6" ABC
J2	8" ABC
J3	10" ABC
K1	12" CLASS IV STABILIZATION
N1	GEOTEXTILE STABILIZATION
P	PRIME COAT
R1	2'-6" C & G
R2	MCI (KEYED IN)
R3	1'-6" C & G
R4	SBG
R5	EXPRESS. GUTTER
R6	8" X 18" CONC. CURB
S	4" SIDEWALK
T	EARTH MATERIAL
U	EXIST. PAVEMENT
V1	3" MILLING
V2	RUMBLE STRIPS
V3	1.5" MILLING
W1	WEDGING DETAIL 1
W2	WEDGING DETAIL 2
Y1	BARRIER, TYPE T
Y2	SF BARRIER
Y3	BARRIER, TYPE T1

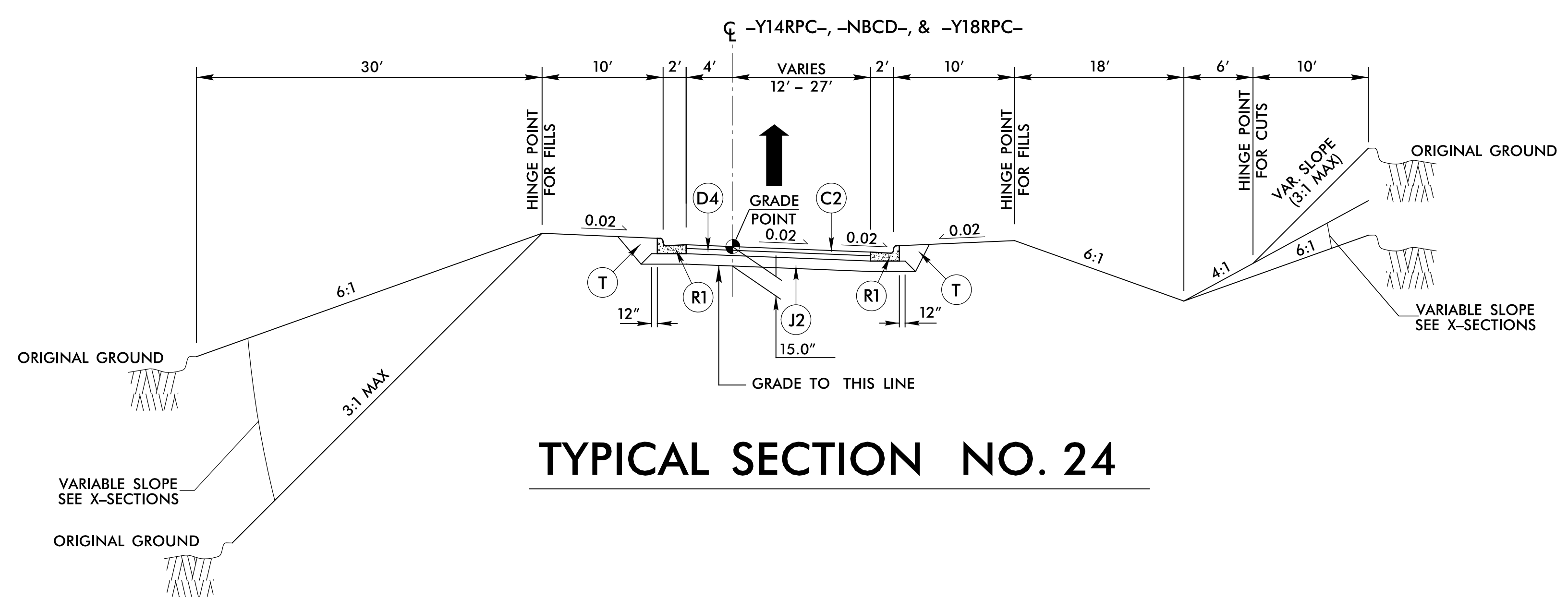


***USE WITH TYP. SECT. NO. 23**

ALIGNMENT	J	DEPTH
-NBCD-	J2	15.0"
-Y14RPC-	J2	15.0"
-Y15RPA-	J2	15.0"
-Y16RPA-	J2	15.0"
-Y16RPC-	J2	15.0"
-Y17RPA-	J3	17.0"
-Y17RPC-	J3	17.0"
-Y18RPA-	J2	15.0"
-Y18RPC-	J2	15.0"



TYPICAL SECTION NO. 23A



TYPICAL SECTION NO. 24

PROJECT REFERENCE NO. I-5878/1-5883/1-5986B	SHEET NO. 2A-9
RW SHEET NO.	
ROADWAY DESIGN ENGINEER SEAL 027373 SUSAN C. LANCASTER	PAVEMENT DESIGN ENGINEER SEAL 031484 VADIM G. MITCHELL
5/13/2021	5/13/2021
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Michael Baker Engineering, Inc. 1000 Regency Park Raleigh, NC 27616 Phone: 919.872.2600 Fax: 919.872.2601	Michael Baker International 1301 SPRING FOREST ROAD RALEIGH, NC 27616 919.872.2600

USE TYPICAL SECTION NO. 23

- NBCD- STA. 11+69.06 TO STA. 38+20.57
- TRANSITION FROM TYP. SECT. NO. 23 TO NO. 27
- NBCD- STA. 38+20.57 TO STA. 39+20.57
- Y14RPC- STA. 14+80.82 TO STA. 21+45.69
- Y15RPA- STA. 13+50.46 TO STA. 18+93.54
- TRANSITION FROM TYP. SECT. NO. 23 TO NO. 23A
- Y15RPA- STA. 18+93.54 TO STA. 19+93.54
- Y16RPA- STA. 18+83.55 TO STA. 28+29.82
- Y16RPC- STA. 15+95.86 TO STA. 27+93.99
- Y17RPA- STA. 14+82.47 TO STA. 21+87.06
- Y17RPC- STA. 14+98.52 TO STA. 25+43.05
- Y18RPA- STA. 13+47.17 TO STA. 17+50.00
- Y18RPC- STA. 13+93.88 TO STA. 20+08.50

USE TYPICAL SECTION NO. 23A

- Y15RPA- STA. 19+93.54 TO STA. 20+93.54
- TRANSITION FROM TYP. SECT. NO. 23A TO NO. 27A
- Y15RPA- STA. 20+93.54 TO STA. 21+93.54

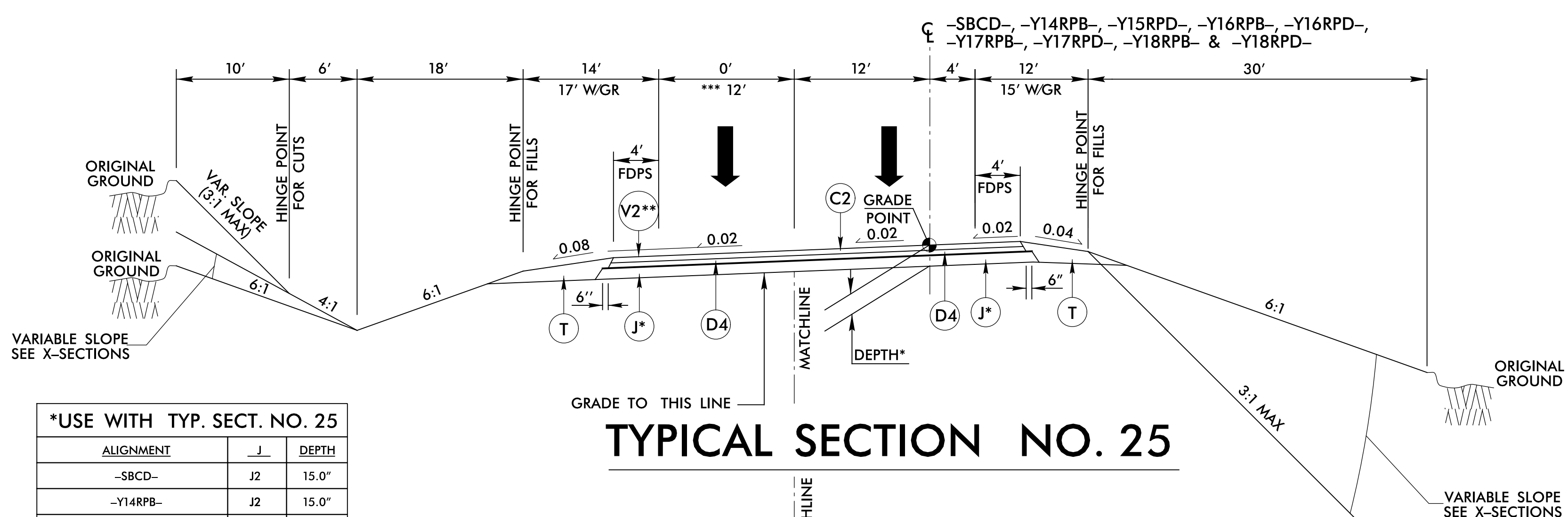
USE TYPICAL SECTION NO. 24

- Y14RPC- STA. 21+45.69 TO 22+63.44
- NBCD- STA. 10+82.25 TO 11+69.06
- Y18RPC- STA. 20+08.50 TO 21+05.93

5/14/2021

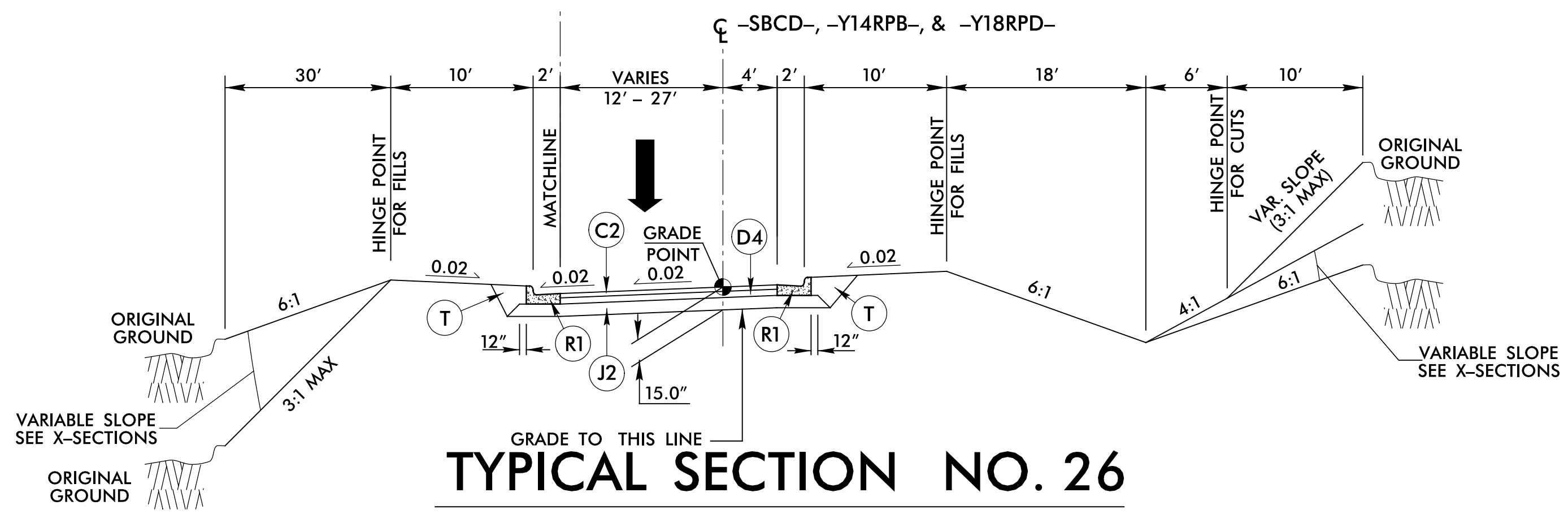
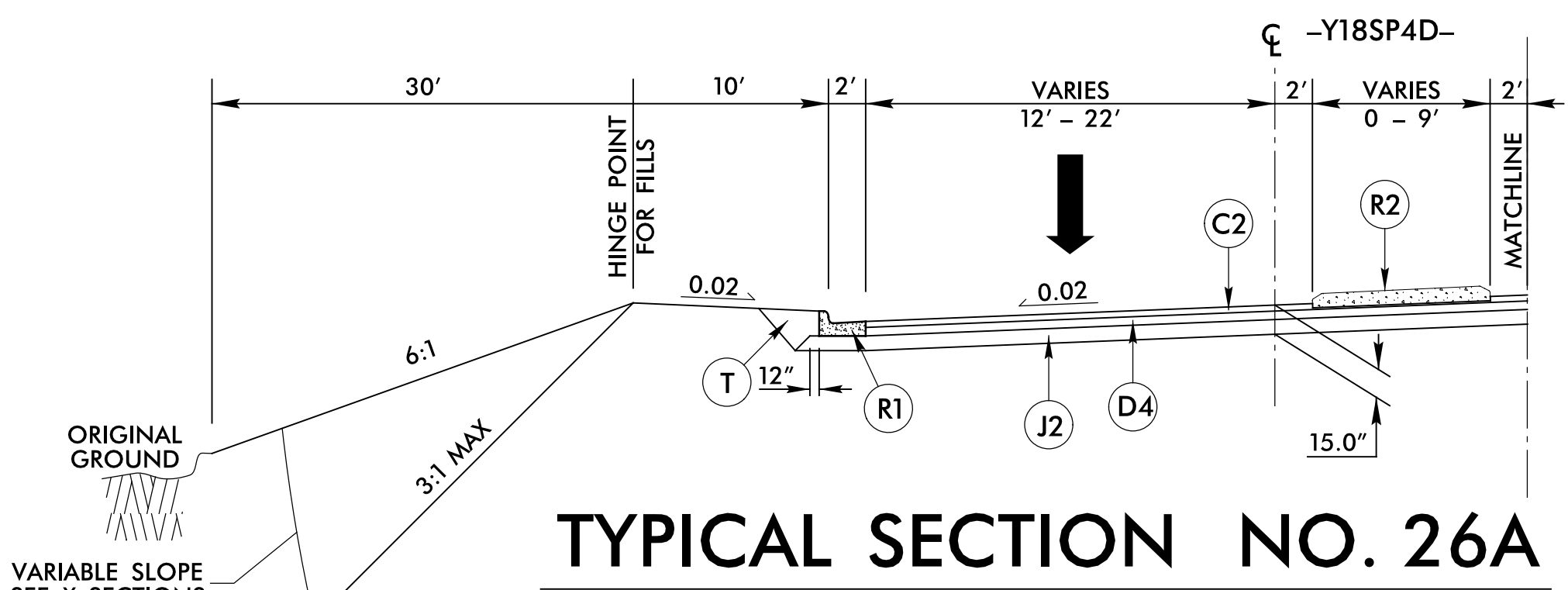
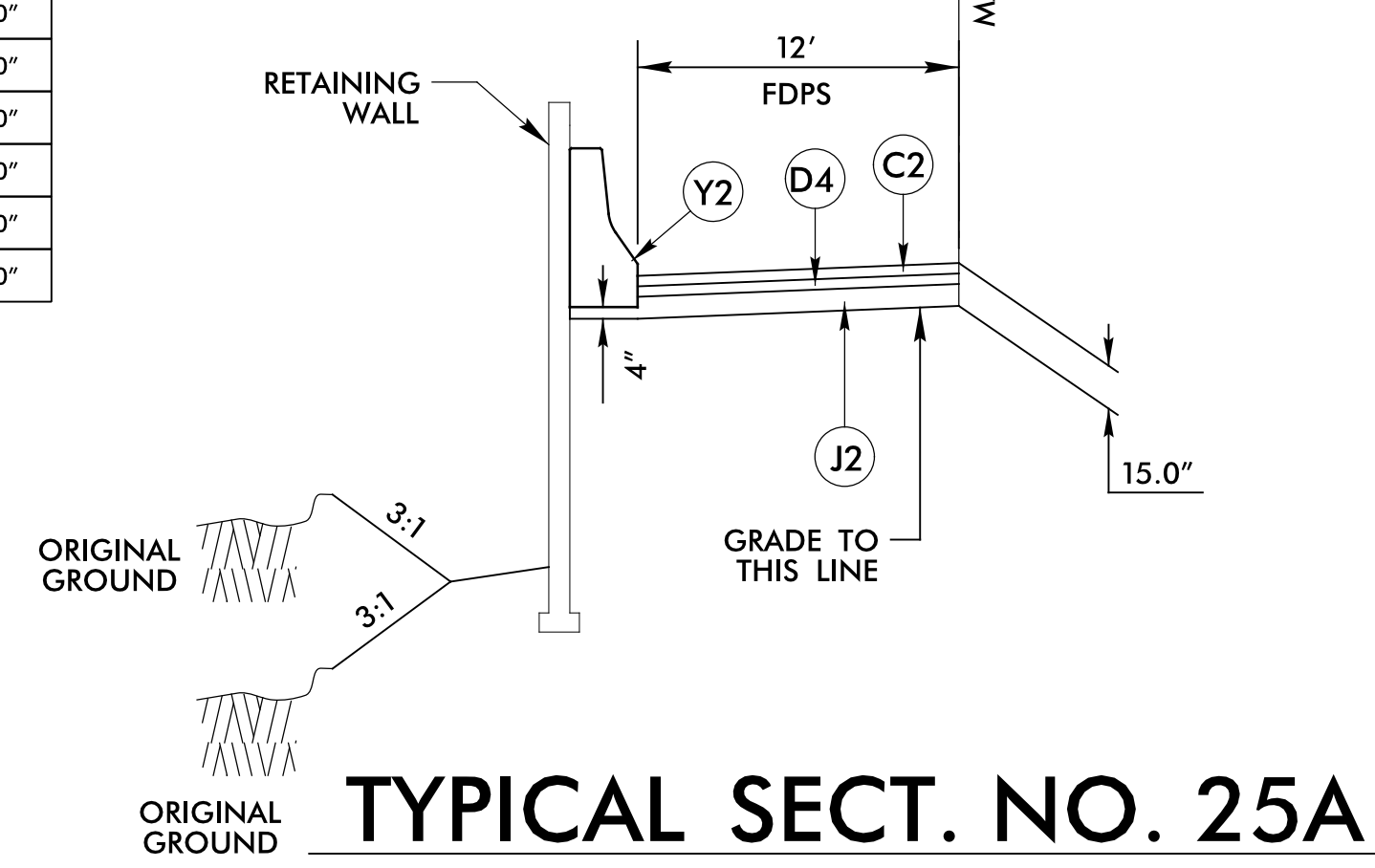
05 MAY 2021 13:10
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 \$\$\$\$ SUBMIT \$\$\$\$

A	12" CONC. APRON
A1	6" CONC. DRWY
C1	3" S9.5D
C2	3" S9.5C
C3	3" S9.5B
C4	VAR. S9.5D
C5	VAR. S9.5C
C6	1 1/2" S9.5D
C7	VAR. S9.5B
D1	2 1/2" I19.0C
D2	3" I19.0C
D3	3 1/2" I19.0C
D4	4" I19.0C
D5	VAR. I19.0C
E1	4" B25.0C
E2	4 1/2" B25.0C
E3	5" B25.0C
E4	11" B25.0C
E5	3" B25.0C
E6	VAR. B25.0C
J1	6" ABC
J2	8" ABC
J3	10" ABC
K1	12" CLASS IV STABILIZATION
N1	GEOTEXTILE STABILIZATION
P	PRIME COAT
R1	2'-6" C & G
R2	MCI (KEYED IN)
R3	1'-6" C & G
R4	SBG
R5	EXPRESS. GUTTER
R6	8" X 18" CONC. CURB
S	4" SIDEWALK
T	EARTH MATERIAL
U	EXIST. PAVEMENT
V1	3" MILLING
V2	RUMBLE STRIPS
V3	1.5" MILLING
W1	WEDGING DETAIL 1
W2	WEDGING DETAIL 2
Y1	BARRIER, TYPE T
Y2	SF BARRIER
Y3	BARRIER, TYPE T1



***USE WITH TYP. SECT. NO. 25**

ALIGNMENT	J	DEPTH
-SBCD-	J2	15.0"
-Y14RPB-	J2	15.0"
-Y15RPD-	J2	15.0"
-Y16RPB-	J2	15.0"
-Y16RPD-	J2	15.0"
-Y17RPB-	J3	17.0"
-Y17RPD-	J3	17.0"
-Y18RPB-	J2	15.0"
-Y18RPD-	J2	15.0"



USE TYPICAL SECTION NO. 25

-SBCD- STA. 12+04.40 TO STA. 41+13.76
 -Y14RPB- STA. 14+63.68 TO STA. 21+95.64
 -Y15RPD- STA. 14+44.41 TO STA. 28+29.72
 -Y16RPB- STA. 14+87.12 TO STA. 23+24.91
 -Y16RPD- STA. 14+04.92 TO STA. 20+48.41
 -Y17RPB- STA. 14+31.14 TO STA. 28+95.31
 -Y17RPD- STA. 13+94.94 TO STA. 25+25.99
 -Y18RPB- STA. 14+91.85 TO STA. 19+35.00
 -Y18RPD- STA. 13+94.94 TO STA. 16+60.00
 ***-Y18RPD- STA. 16+60.00 TO STA. 21+75.76

USE TYPICAL SECTION NO. 26A

-Y18RPD- STA 22+10.00 TO STA. 24+04.30

USE TYPICAL SECTION NO. 26

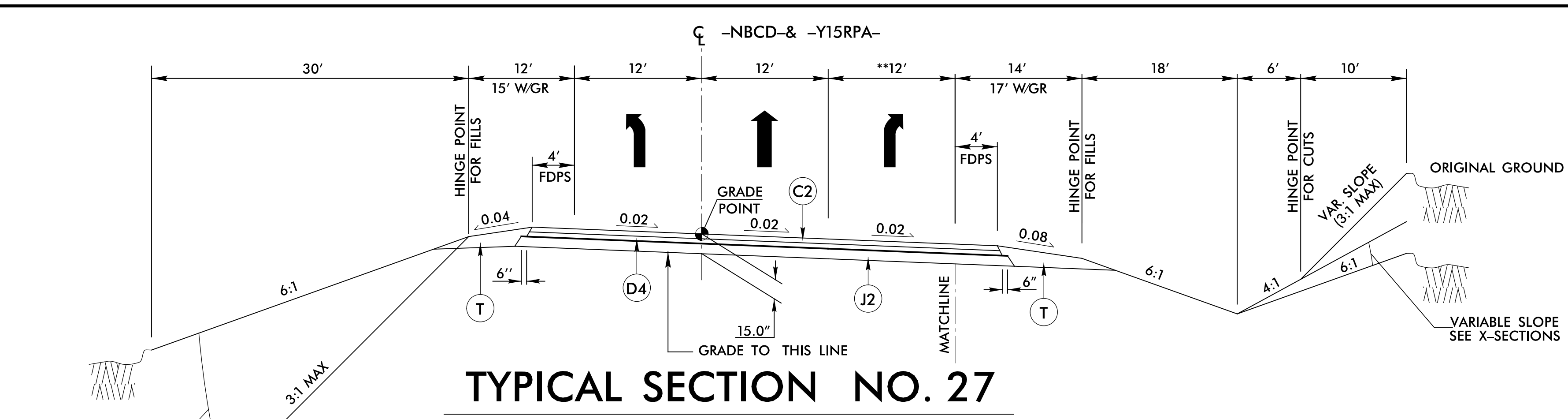
-Y14RPB- STA. 21+95.64 TO STA. 23+40.74
 -SBCD- STA. 10+25.51 TO STA. 12+04.40
 -Y18RPD- STA. 21+75.76 TO STA. 23+66.23

PROJECT REFERENCE NO. I-5878/1-5883/1-5986B	SHEET NO. 2A-10
RW SHEET NO.	
ROADWAY DESIGN ENGINEER SWAN C. LANCASTER SEAL 027373 5/13/2021	PAVEMENT DESIGN ENGINEER VADIM G. MITCHELL SEAL 031484 5/13/2021
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Michael Baker Engineering, Inc. INTERNATIONAL	3301 SPRING FOREST ROAD RALEIGH, NC 27616 919.872.2600

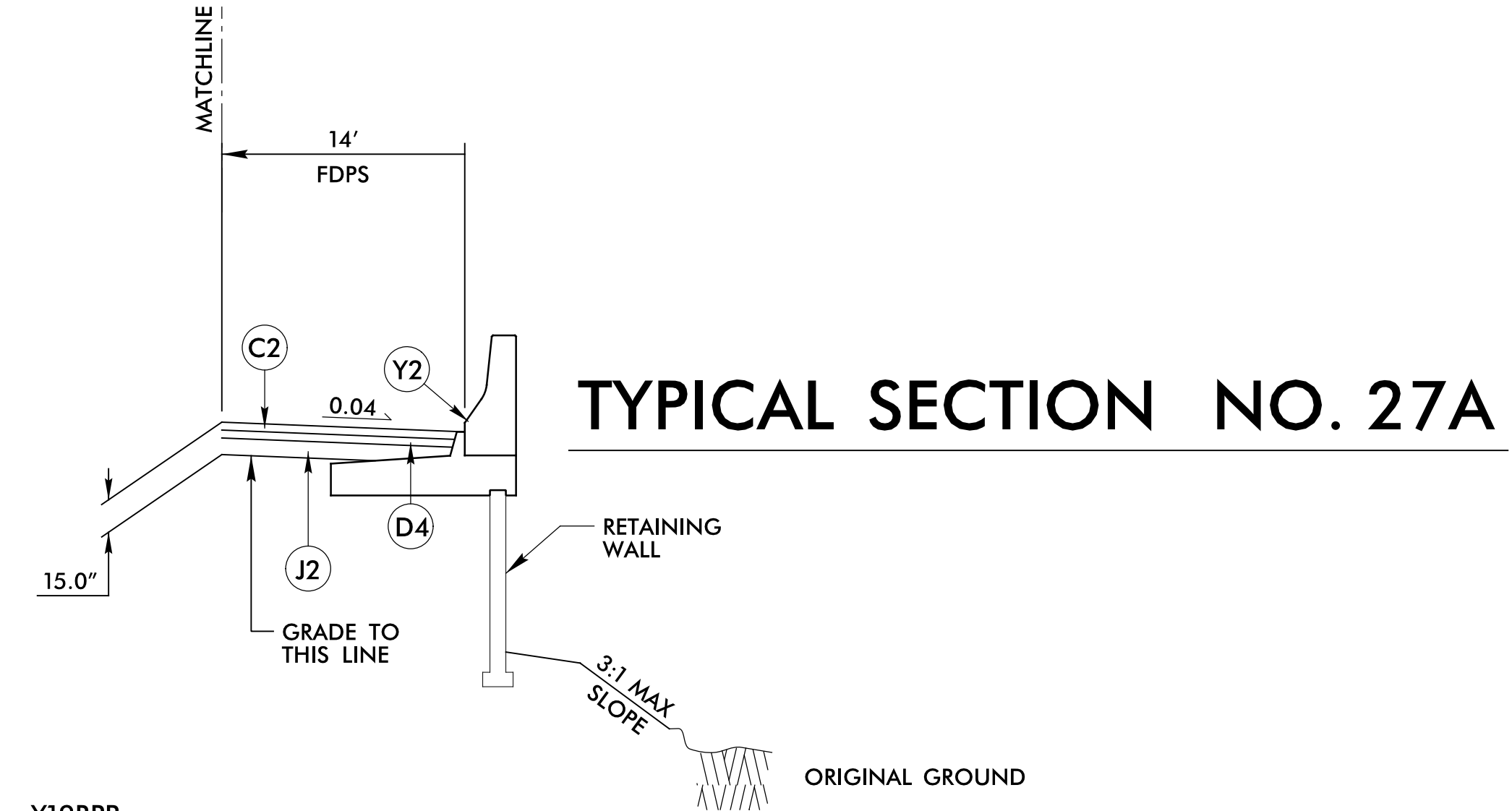
5/14/2021

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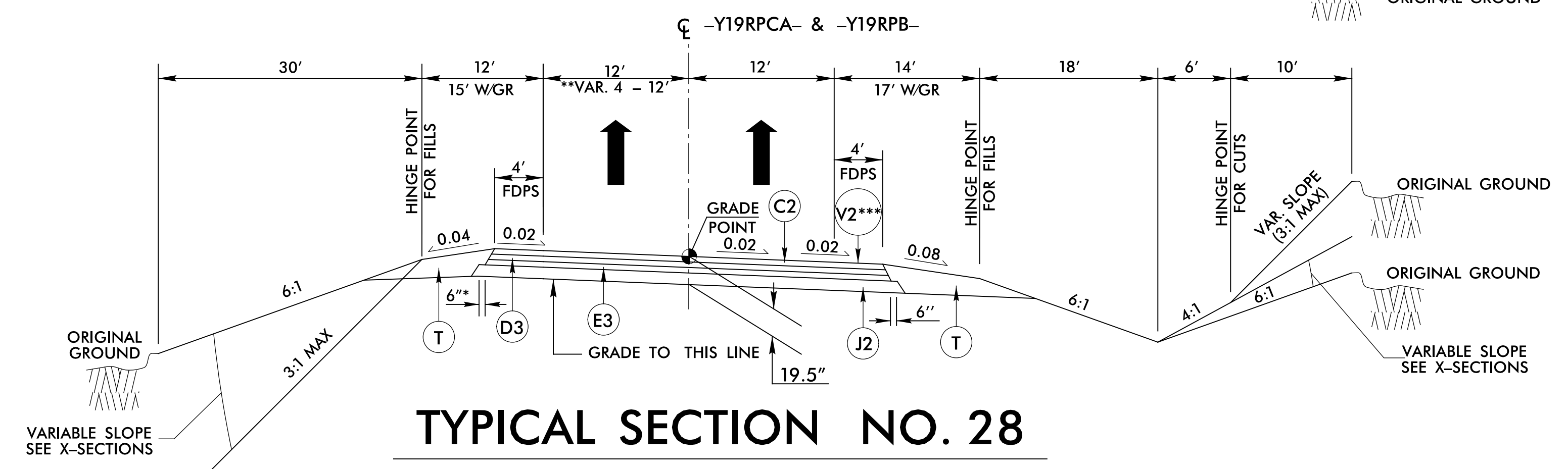
A	12" CONC. APRON
A1	6" CONC. DRWY
C1	3" S9.5D
C2	3" S9.5C
C3	3" S9.5B
C4	VAR. S9.5D
C5	VAR. S9.5C
C6	1 1/2" S9.5D
C7	VAR. S9.5B
D1	2 1/2" I19.0C
D2	3" I19.0C
D3	3 1/2" I19.0C
D4	4" I19.0C
D5	VAR. I19.0C
E1	4" B25.0C
E2	4 1/2" B25.0C
E3	5" B25.0C
E4	11" B25.0C
E5	3" B25.0C
E6	VAR. B25.0C
J1	6" ABC
J2	8" ABC
J3	10" ABC
K1	12" CLASS IV STABILIZATION
N1	GEOTEXTILE STABILIZATION
P	PRIME COAT
R1	2'-6" C & G
R2	MCI (KEYED IN)
R3	1'-6" C & G
R4	SBG
R5	EXPRESS. GUTTER
R6	8" X 18" CONC. CURB
S	4" SIDEWALK
T	EARTH MATERIAL
U	EXIST. PAVEMENT
V1	3" MILLING
V2	RUMBLE STRIPS
V3	1.5" MILLING
W1	WEDGING DETAIL 1
W2	WEDGING DETAIL 2
Y1	BARRIER, TYPE T
Y2	SF BARRIER
Y3	BARRIER, TYPE T1



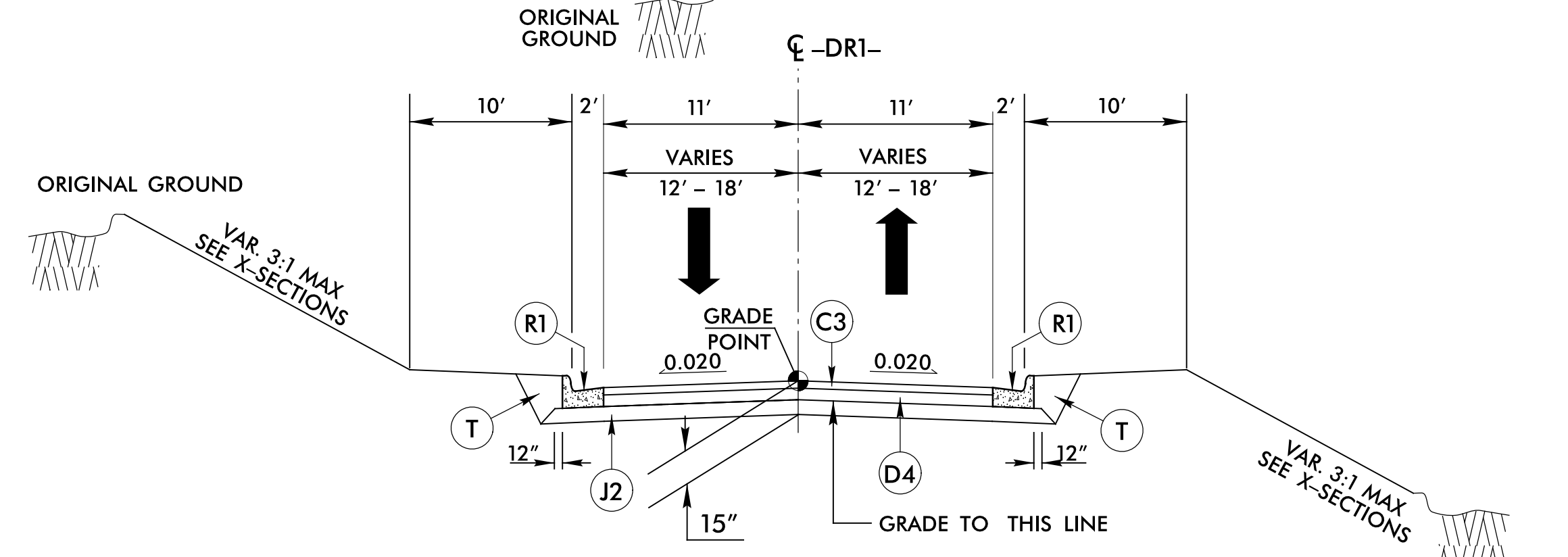
TYPICAL SECTION NO. 27



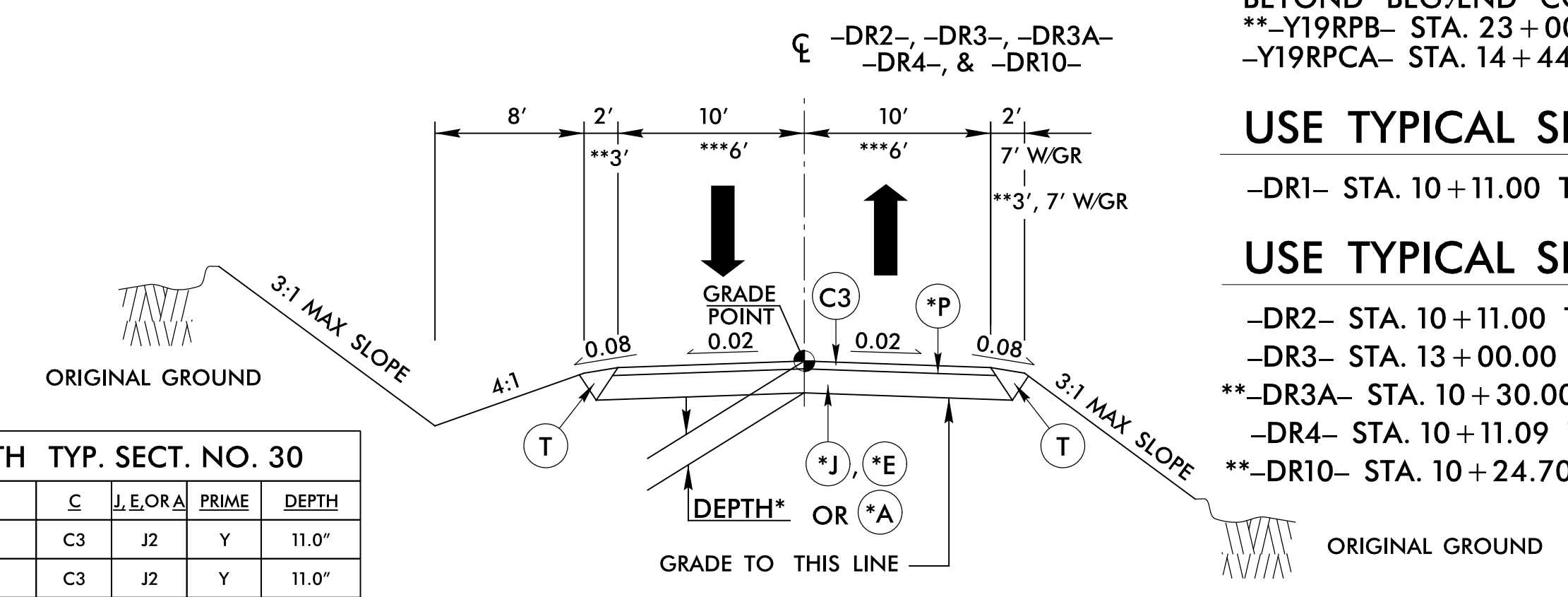
TYPICAL SECTION NO. 27A



TYPICAL SECTION NO. 28



TYPICAL SECTION NO. 29



TYPICAL SECTION NO. 30

***USE WITH TYP. SECT. NO. 30**

ALIGNMENT	C	J, E, OR A	PRIME	DEPTH
-DR2-	C3	J2	Y	11.0"
-DR3-	C3	J2	Y	11.0"
-DR3A-	NA	A1	Y	9.0"
-DR4-	C3	J2	Y	11.0"
-DR10-	C3	E1	N	7.0"

PROJECT REFERENCE NO. 1-5878/1-5883/1-5986B	SHEET NO. 2A-11
RW SHEET NO.	
ROADWAY DESIGN ENGINEER SWAN C LANCASTER SEAL 027373 5/17/2021	PAVEMENT DESIGN ENGINEER VLADIMIR G. MITCHELL SEAL 031484 5/17/2021
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Michael Baker Engineering, Inc. 1301 SPRING FOREST ROAD RALEIGH, NC 27615 919.872.2000	Michael Baker INTERNATIONAL

USE TYPICAL SECTION NO. 27

-NBCD- STA. 39+20.57 TO 42+66.77
 **-Y15RPA- STA. 21+93.54 TO STA. 24+58.25

USE TYPICAL SECTION NO. 27A

-Y15RPA- STA. 21+93.54 TO 22+00.00

USE TYPICAL SECTION NO. 28

-Y19RPCA- STA. 14+04.81 TO STA. 18+34.55 +/- RT
 **-Y19RPB- STA. 23+00.00 +/- TO 27+40.43

***USE RUMBLE STRIPS:
 -Y19RPCA- STA. 14+04.81 TO STA. 14+54.81 RT

REM. EX. CONC. PVMT. TO NEAREST JOINT BEYOND BEG/END CONST.
 **-Y19RPB- STA. 23+00.00 +/- TO STA. 27+83.74
 -Y19RPCA- STA. 14+44.16 TO STA. 18+34.55 +/-

USE TYPICAL SECTION NO. 29

-DR1- STA. 10+11.00 TO STA. 14+00.00

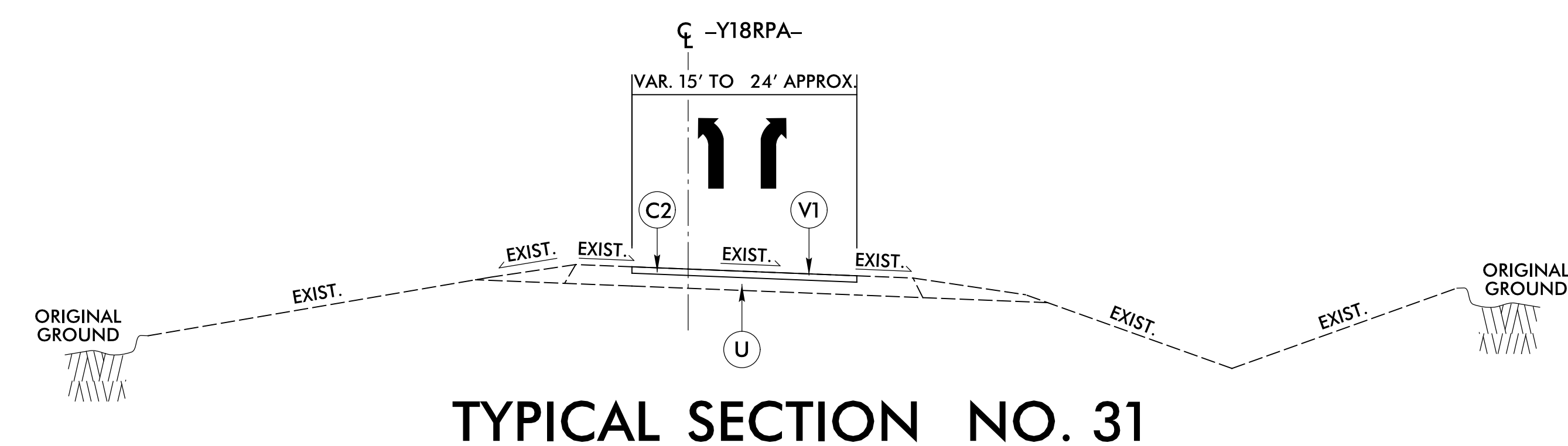
USE TYPICAL SECTION NO. 30

-DR2- STA. 10+11.00 TO STA. 12+91.61
 -DR3- STA. 13+00.00 TO STA. 19+76.71
 -DR3A- STA. 10+30.00 TO STA. 12+06.55*
 -DR4- STA. 10+11.09 TO STA. 15+64.94
 **-DR10- STA. 10+24.70 TO STA. 12+00.00

5/14/2021

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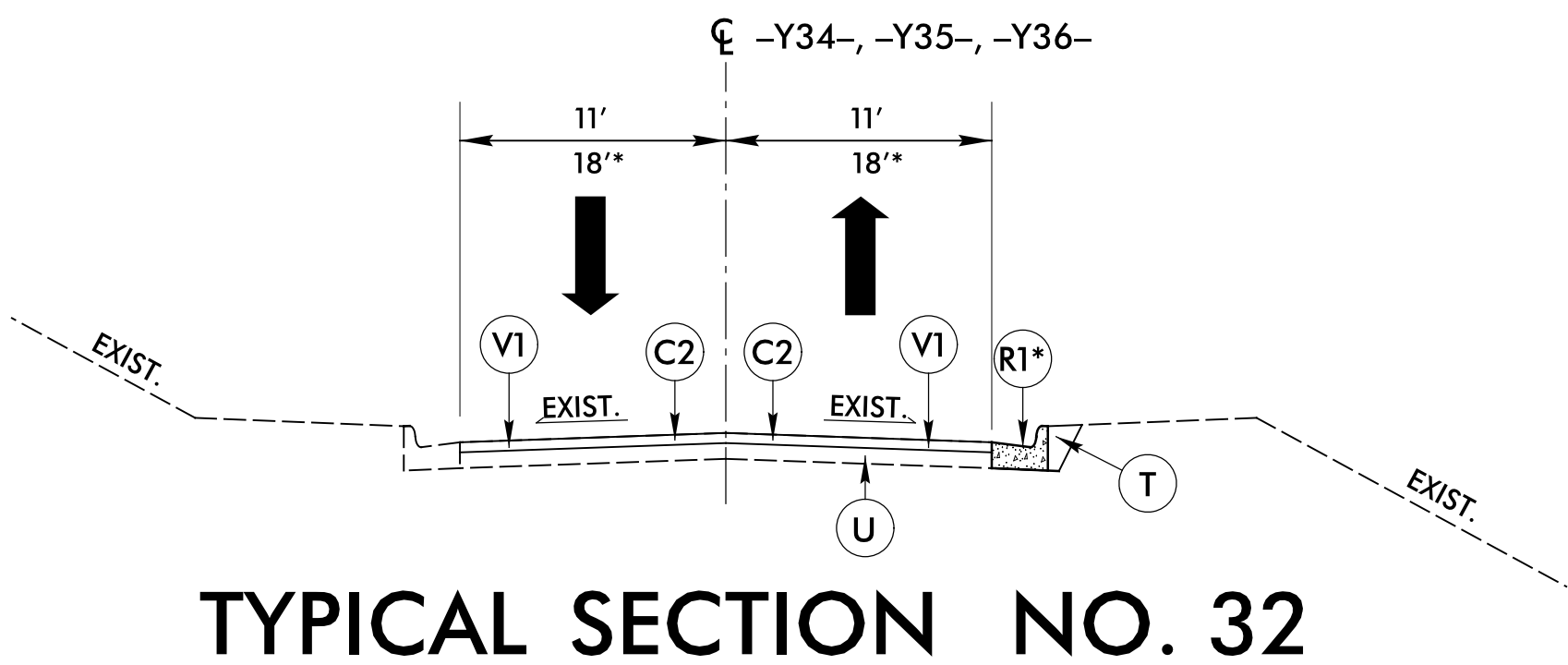
A	12" CONC. APRON
A1	6" CONC. DRWY
C1	3" S9.5D
C2	3" S9.5C
C3	3" S9.5B
C4	VAR. S9.5D
C5	VAR. S9.5C
C6	1 1/2" S9.5D
C7	VAR. S9.5B
D1	2 1/2" I19.0C
D2	3" I19.0C
D3	3 1/2" I19.0C
D4	4" I19.0C
D5	VAR. I19.0C
E1	4" B25.0C
E2	4 1/2" B25.0C
E3	5" B25.0C
E4	11" B25.0C
E5	3" B25.0C
E6	VAR. B25.0C
J1	6" ABC
J2	8" ABC
J3	10" ABC
K1	12" CLASS IV STABILIZATION
N1	GEOTEXTILE STABILIZATION
P	PRIME COAT
R1	2'-6" C & G
R2	MCI (KEYED IN)
R3	1'-6" C & G
R4	SBG
R5	EXPRESS. GUTTER
R6	8" X 18" CONC. CURB
S	4" SIDEWALK
T	EARTH MATERIAL
U	EXIST. PAVEMENT
V1	3" MILLING
V2	RUMBLE STRIPS
V3	1.5" MILLING
W1	WEDGING DETAIL 1
W2	WEDGING DETAIL 2
Y1	BARRIER, TYPE T
Y2	SF BARRIER
Y3	BARRIER, TYPE T1



TYPICAL SECTION NO. 31

USE TYPICAL SECTION NO. 31

-Y18RPA- STA. 17 + 50.00 TO STA. 20 + 64.15

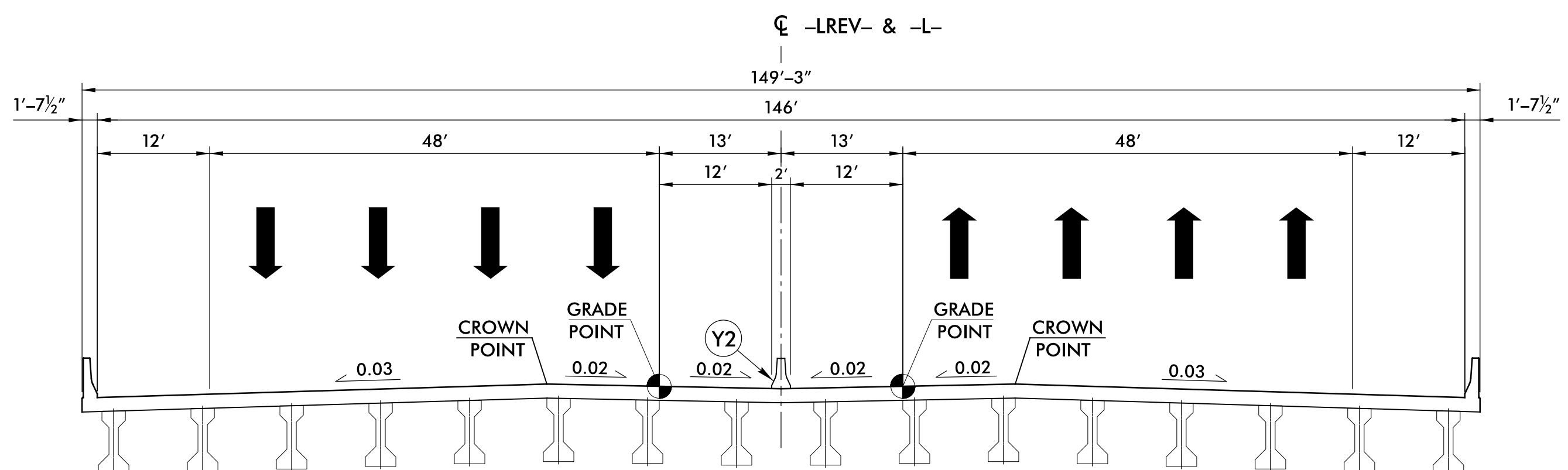


TYPICAL SECTION NO. 32

USE TYPICAL SECTION NO. 32

-Y15- STA. 1 + 45.00 TO STA. 5 + 34.00
 -Y34- STA. 10 + 50.00 TO STA. 12 + 41.51
 -Y34- STA. 12 + 81.63 TO STA. 13 + 02.00
 -Y35- STA. 10 + 36.90 TO STA. 14 + 02.91
 *-Y36- STA. 10 + 50.00 TO STA. 13 + 11.33

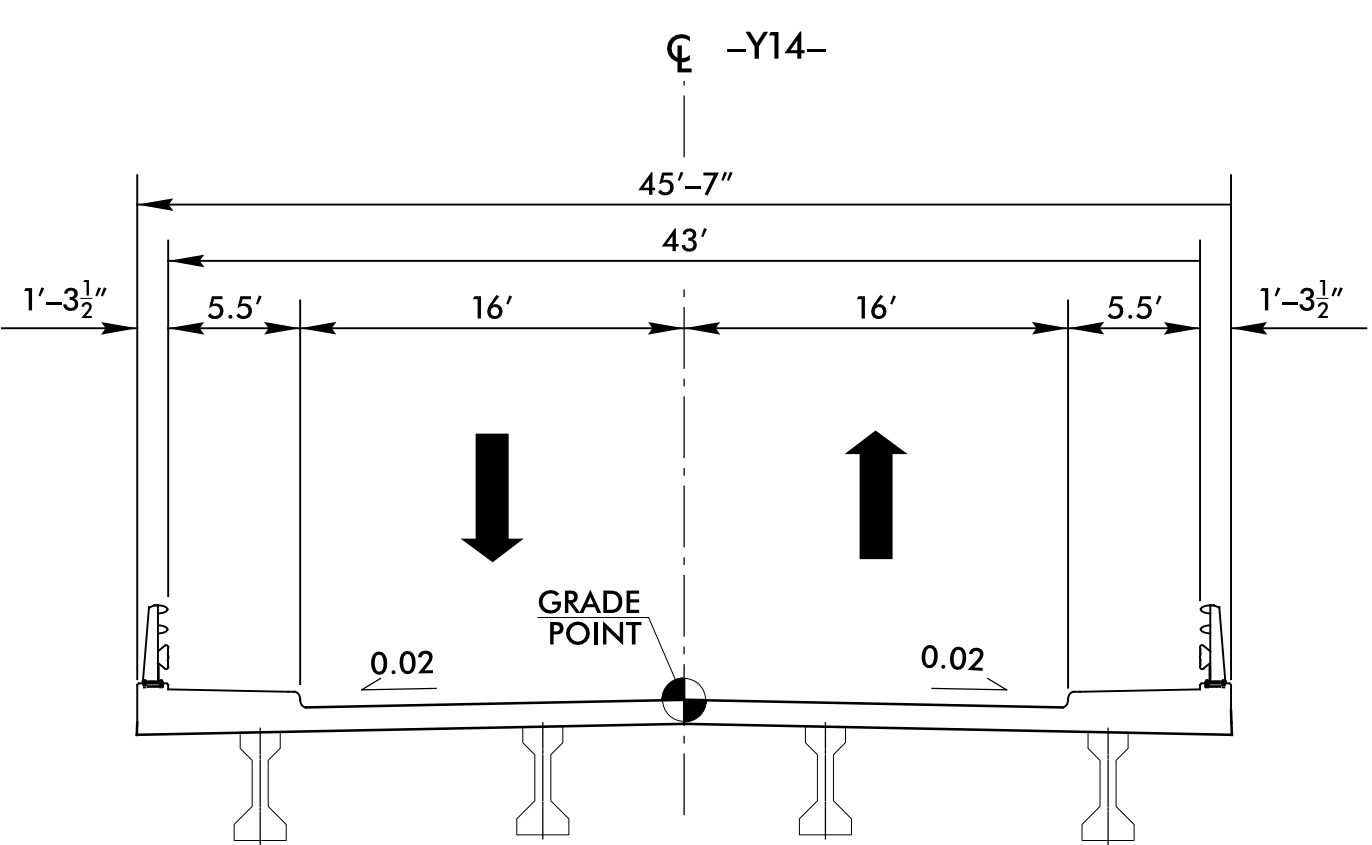
*REPLACE EXISTING CURB AS NOTED IN PLANS OR AS DIRECTED BY THE ENGINEER



STRUCTURE TYPICAL SECTION NO. 33

USE TYPICAL SECTION NO. 33

-LREV- STA. 1002 + 26.85 TO STA. 1003 + 31.60
 -L- STA. 1259 + 11.08 TO STA. 1261 + 56.92
 -L- STA. 1390 + 66.69 TO STA. 1391 + 72.61



TYPICAL SECTION NO. 34

USE TYPICAL SECTION NO. 34

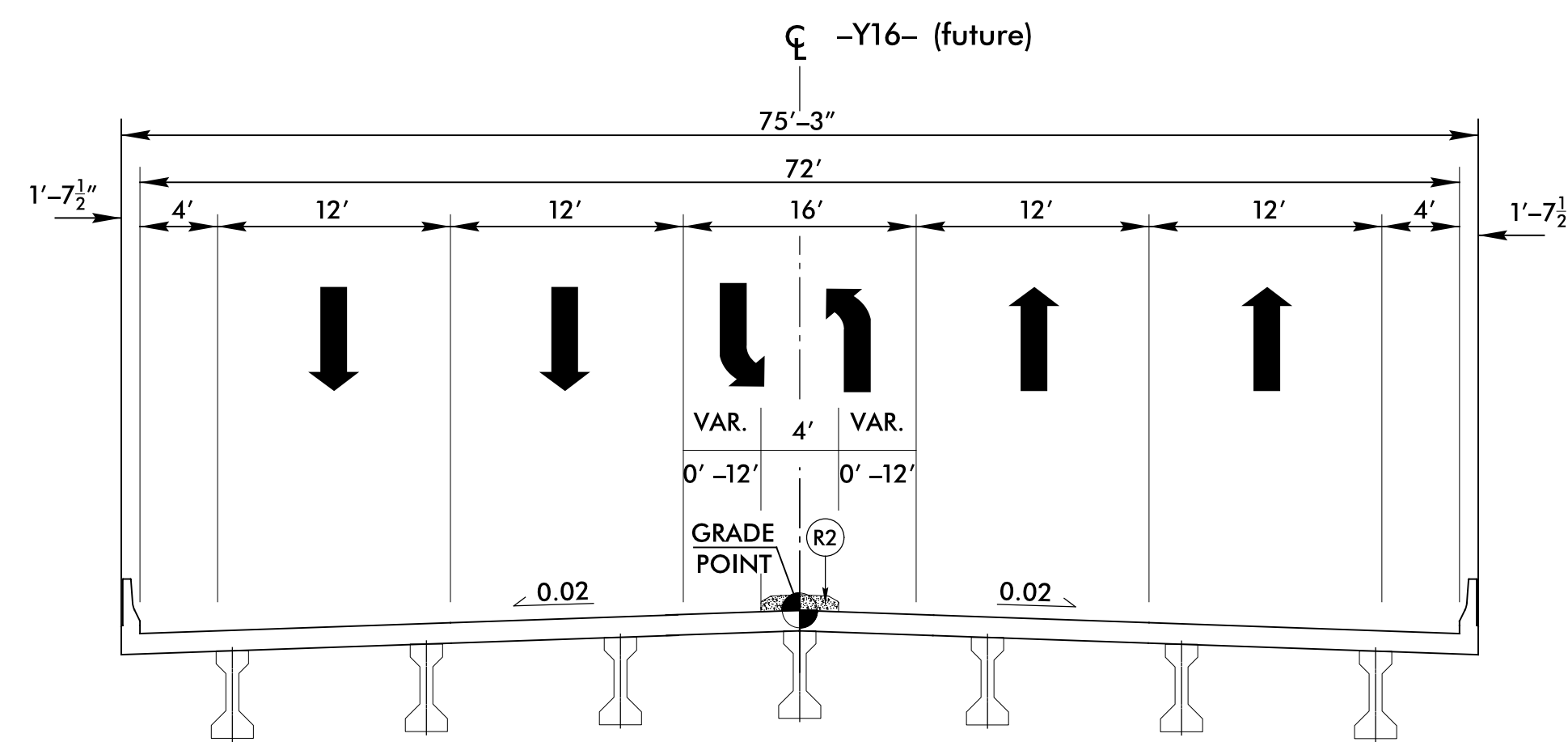
-Y14- STA. 24 + 91.78 TO STA. 27 + 18.78

PROJECT REFERENCE NO. I-5878/1-5883/1-5986B	SHEET NO. 2A-12
RW SHEET NO.	
ROADWAY DESIGN ENGINEER SWAN C. LANCASTER SEAL 027373 5/13/2021	PAVEMENT DESIGN ENGINEER VADIM G. MITCHELL SEAL 031484 5/13/2021
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Michael Baker Engineering, Inc. INTERNATIONAL	3301 SPRING FOREST ROAD RALEIGH, NC 27616 (919) 872-2000

5/14/2021

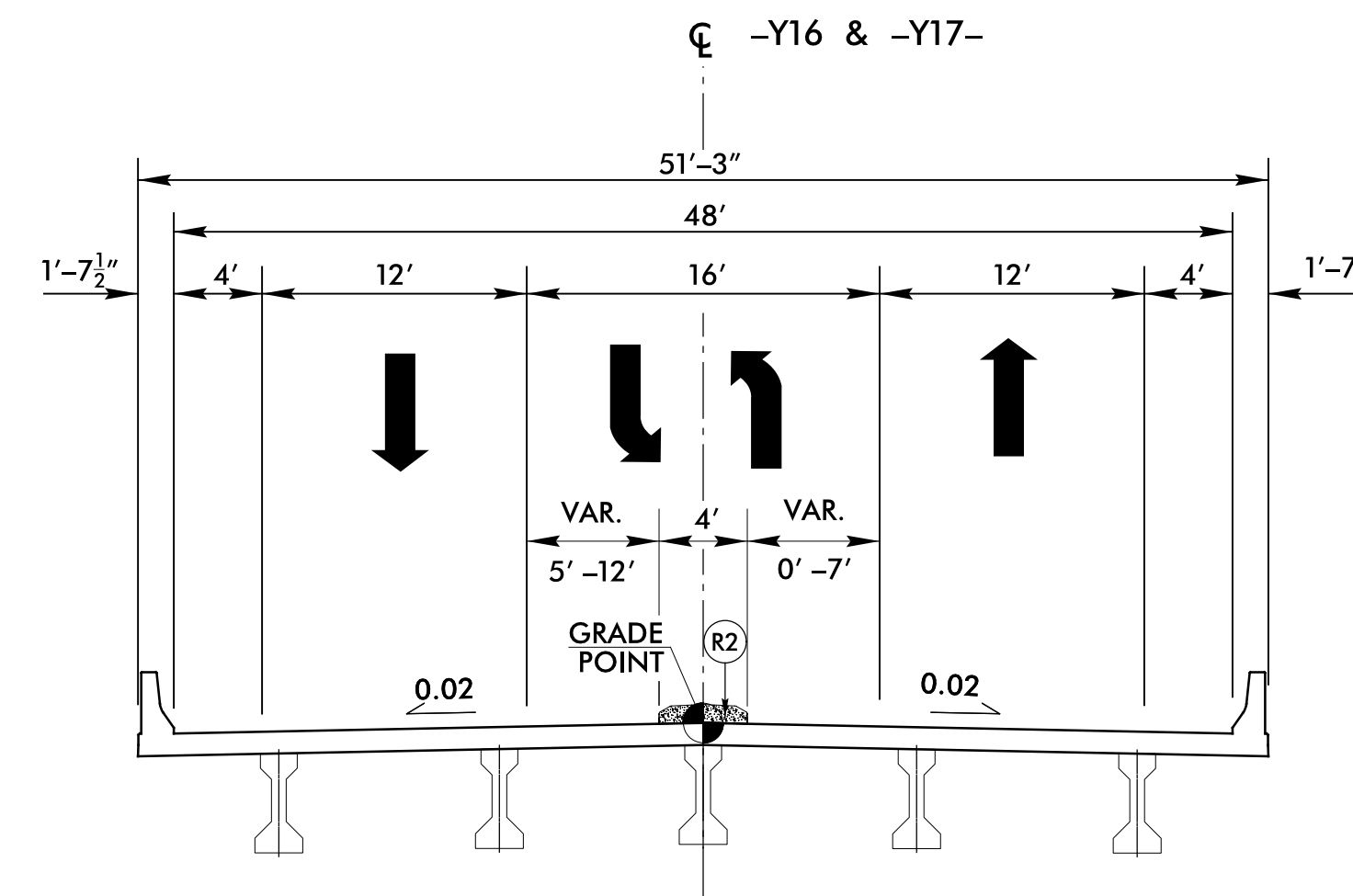
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A1	6" CONC. DRWY
C1	3" S9.5D
C2	3" S9.5C
C3	3" S9.5B
C4	VAR. S9.5D
C5	VAR. S9.5C
C6	1 1/2" S9.5D
C7	VAR. S9.5B
D1	2 1/2" I19.0C
D2	3" I19.0C
D3	3 1/2" I19.0C
D4	4" I19.0C
D5	VAR. I19.0C
E1	4" B25.0C
E2	4 1/2" B25.0C
E3	5" B25.0C
E4	11" B25.0C
E5	3" B25.0C
E6	VAR. B25.0C
J1	6" ABC
J2	8" ABC
J3	10" ABC
K1	12" CLASS IV STABILIZATION
N1	GEOTEXTILE STABILIZATION
P	PRIME COAT
R1	2'-6" C & G
R2	MCI (KEYED IN)
R3	1'-6" C & G
R4	SBG
R5	EXPRESS. GUTTER
R6	8" X 18" CONC. CURB
S	4" SIDEWALK
T	EARTH MATERIAL
U	EXIST. PAVEMENT
V1	3" MILLING
V2	RUMBLE STRIPS
V3	1.5" MILLING
W1	WEDGING DETAIL 1
W2	WEDGING DETAIL 2
Y1	BARRIER, TYPE T
Y2	SF BARRIER
Y3	BARRIER, TYPE T1

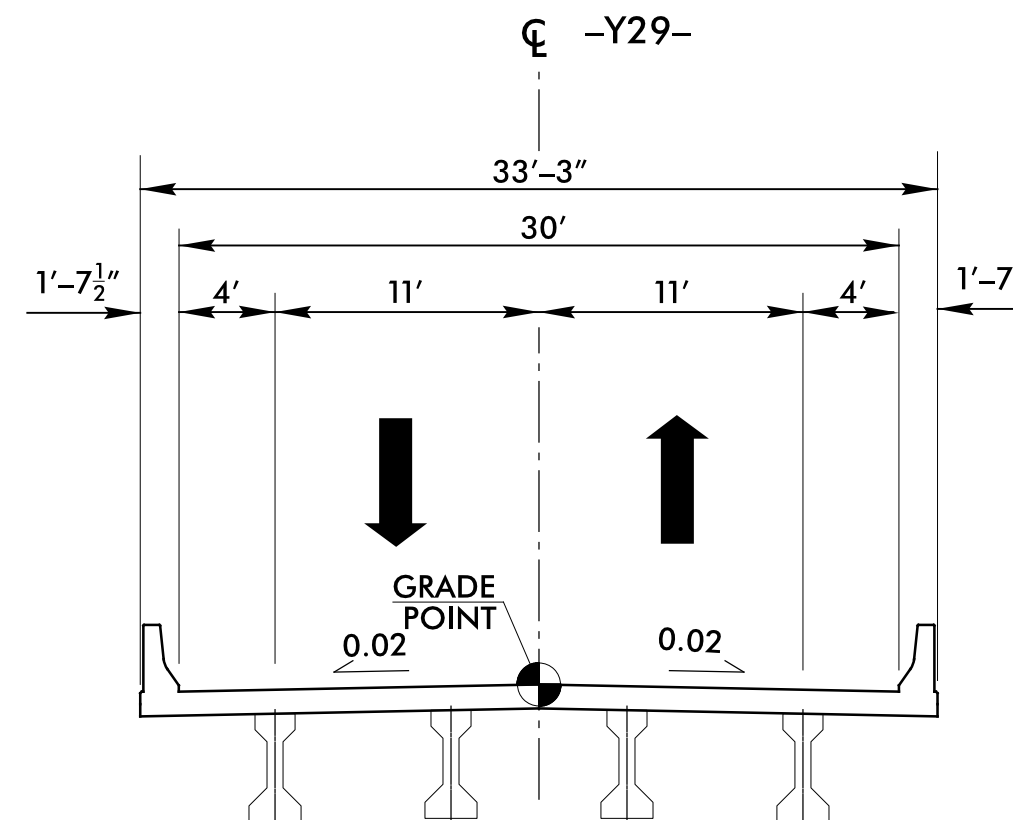


TYPICAL SECTION NO. 35A

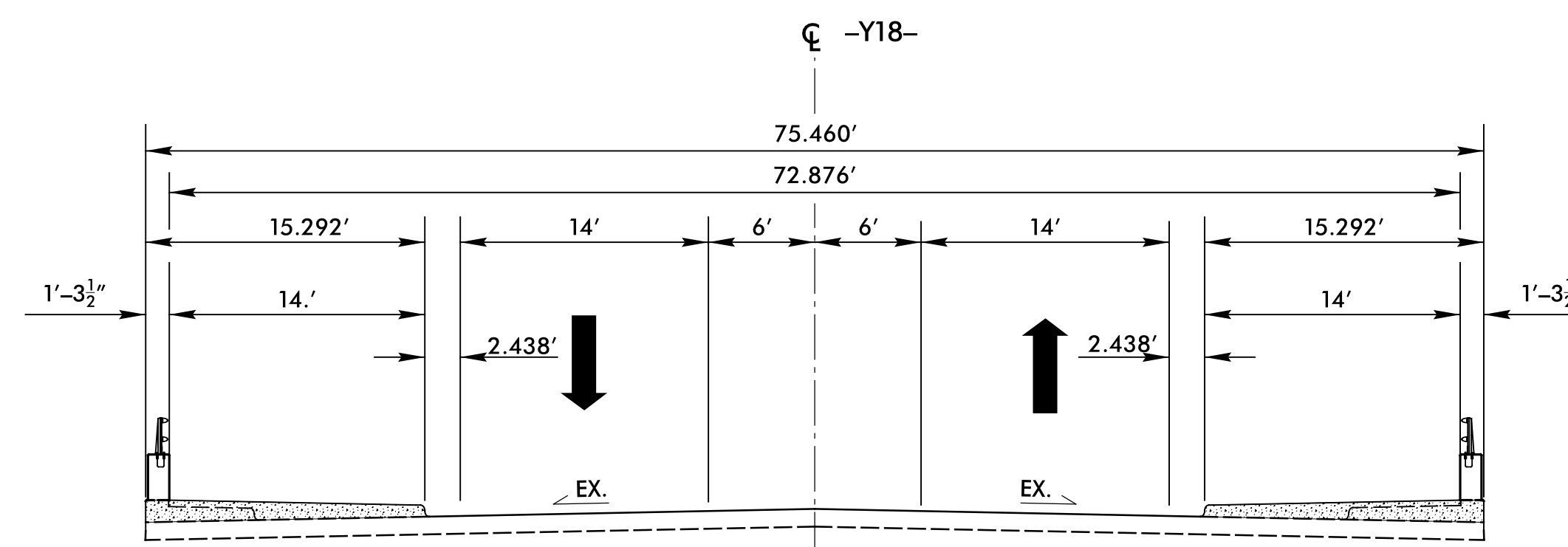
Future Proposed Jonesboro Rd. Widening



TYPICAL SECTION NO. 35



TYPICAL SECTION NO. 36



TYPICAL SECTION NO. 37

PROJECT REFERENCE NO. 1-5878/1-5883/1-5986B	SHEET NO. 2A-13
RW SHEET NO.	
ROADWAY DESIGN ENGINEER <i>Susan C. Lancaster</i> SEAL 027373 5/13/2021	PAVEMENT DESIGN ENGINEER <i>Walter G. Mitchem</i> SEAL 031484 5/13/2021
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Michael Baker Engineering, Inc. 8000 Regency Park Raleigh, NC 27616 919.872.2666	Michael Baker International

USE TYPICAL SECTION NO. 35

-Y16- STA. 26 + 14.44 TO STA. 28 + 03.94
-Y17- STA. 25 + 73.98 TO STA. 27 + 87.48

USE TYPICAL SECTION NO. 36

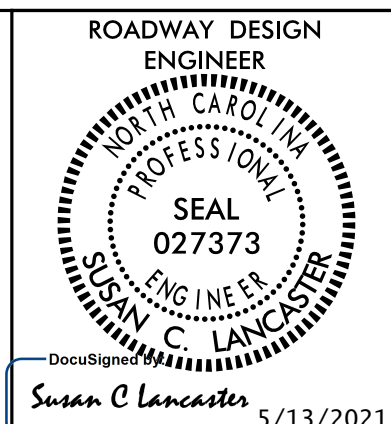
-Y29- STA. 27 + 40.46 TO STA. 29 + 37.96

USE TYPICAL SECTION NO. 37

-Y18- STA. 24 + 28.71 +/- TO STA. 26 + 55.58 +/-

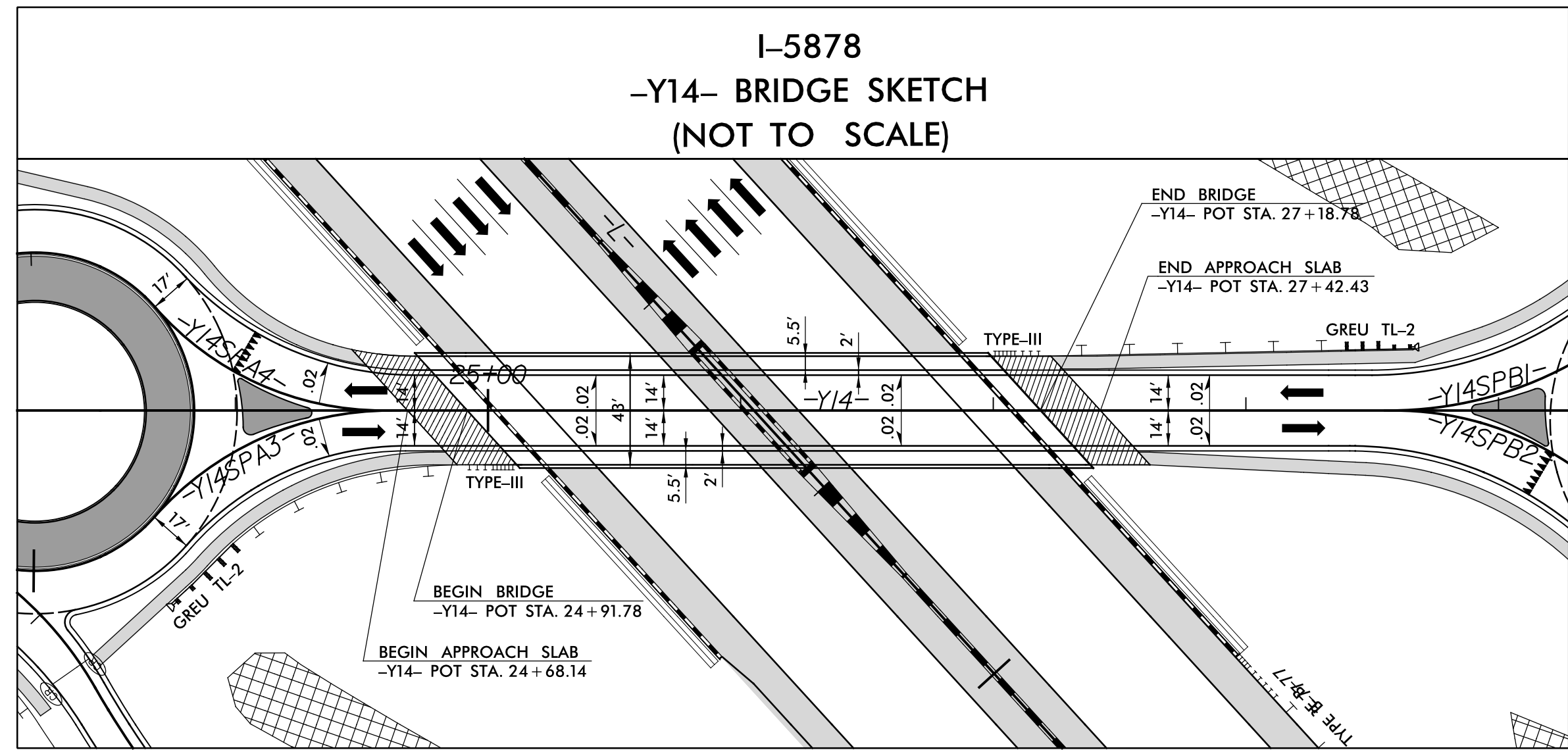
PROJECT REFERENCE NO.	SHEET NO.
I-5878	2B-1
RW SHEET NO.	

DETAILS SHOWING PAVEMENT/BRIDGE RELATIONSHIP

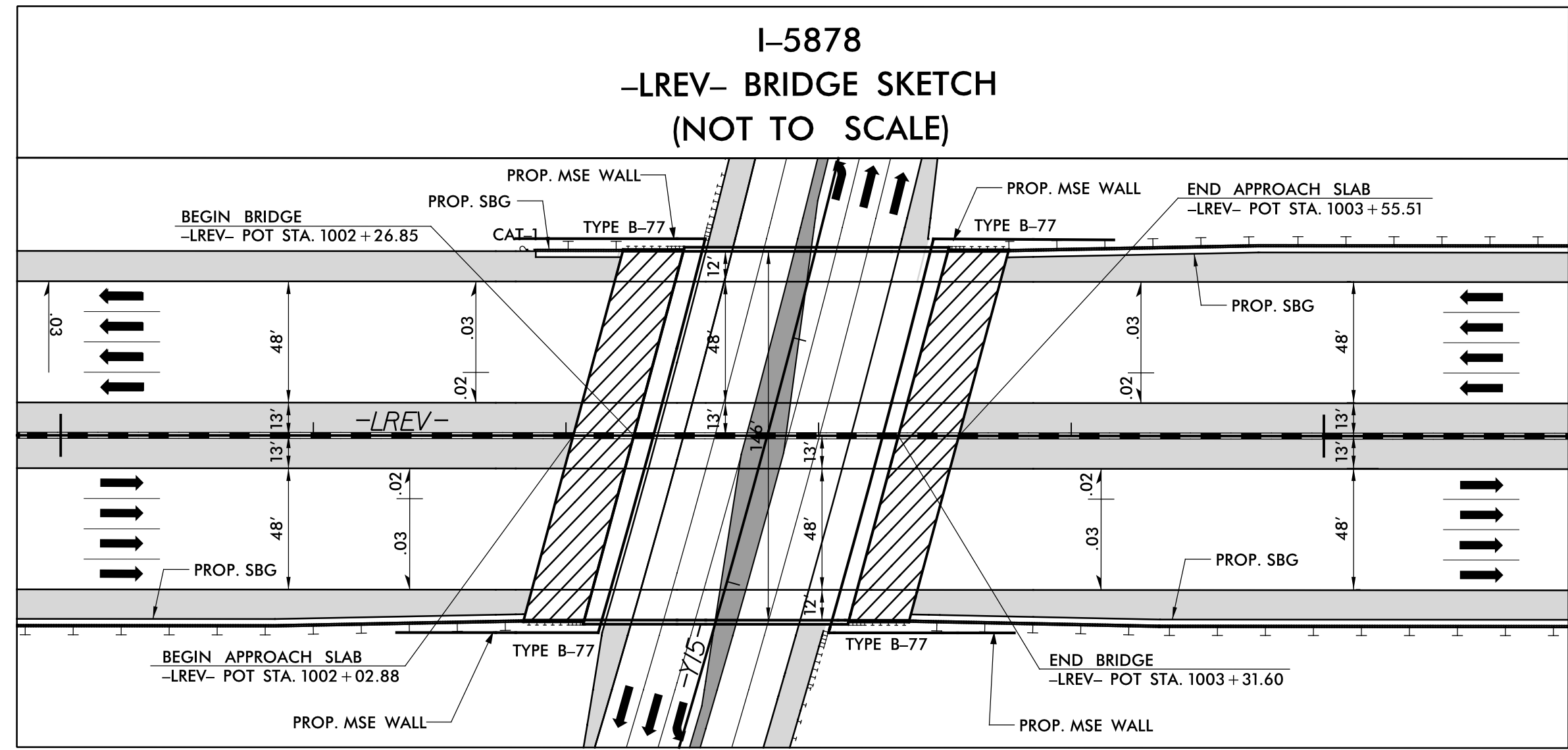


**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

Michael Baker Engineering, Inc.
6900 Regency Pkwy
Suite 500
Cary, NC 27518
NC License: F-1084



SEE SHEET 17 FOR BRIDGE LOCATION

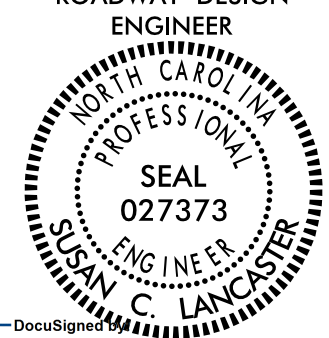


SEE SHEET 19 FOR BRIDGE LOCATION

PROJECT REFERENCE NO. I-5883	SHEET NO. 2B-2
RW SHEET NO.	

DETAILS SHOWING PAVEMENT/BRIDGE RELATIONSHIP

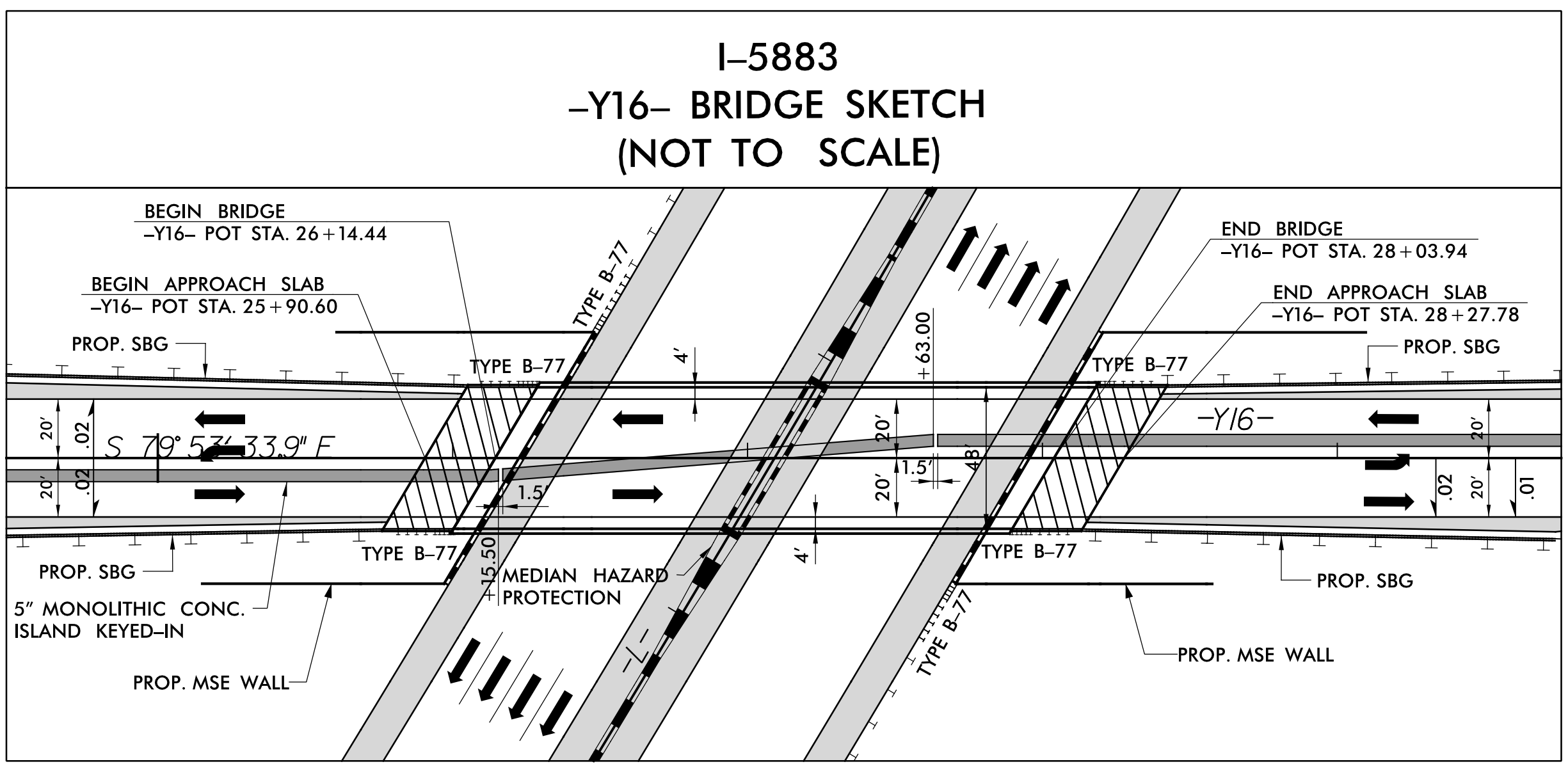
ROADWAY DESIGN ENGINEER



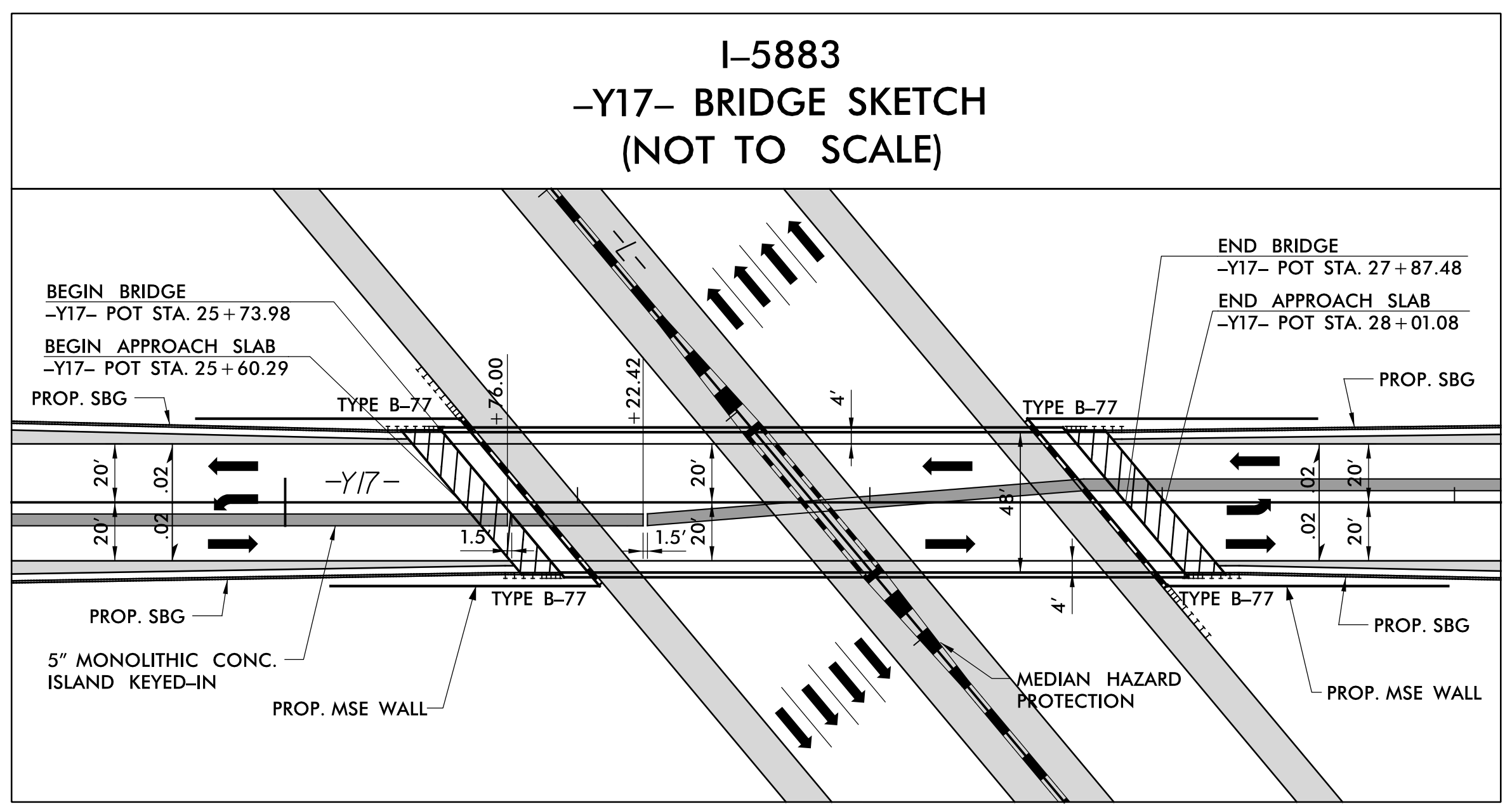
Susan C. Lancaster 5/13/2021

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Michael Baker Engineering, Inc.
 Michael Baker INTERNATIONAL



SEE SHEET 25 FOR BRIDGE LOCATION

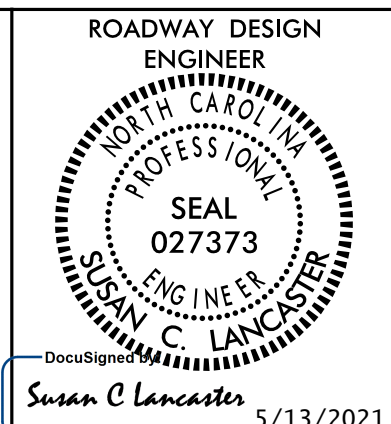


SEE SHEET 32 FOR BRIDGE LOCATION

8/17/99

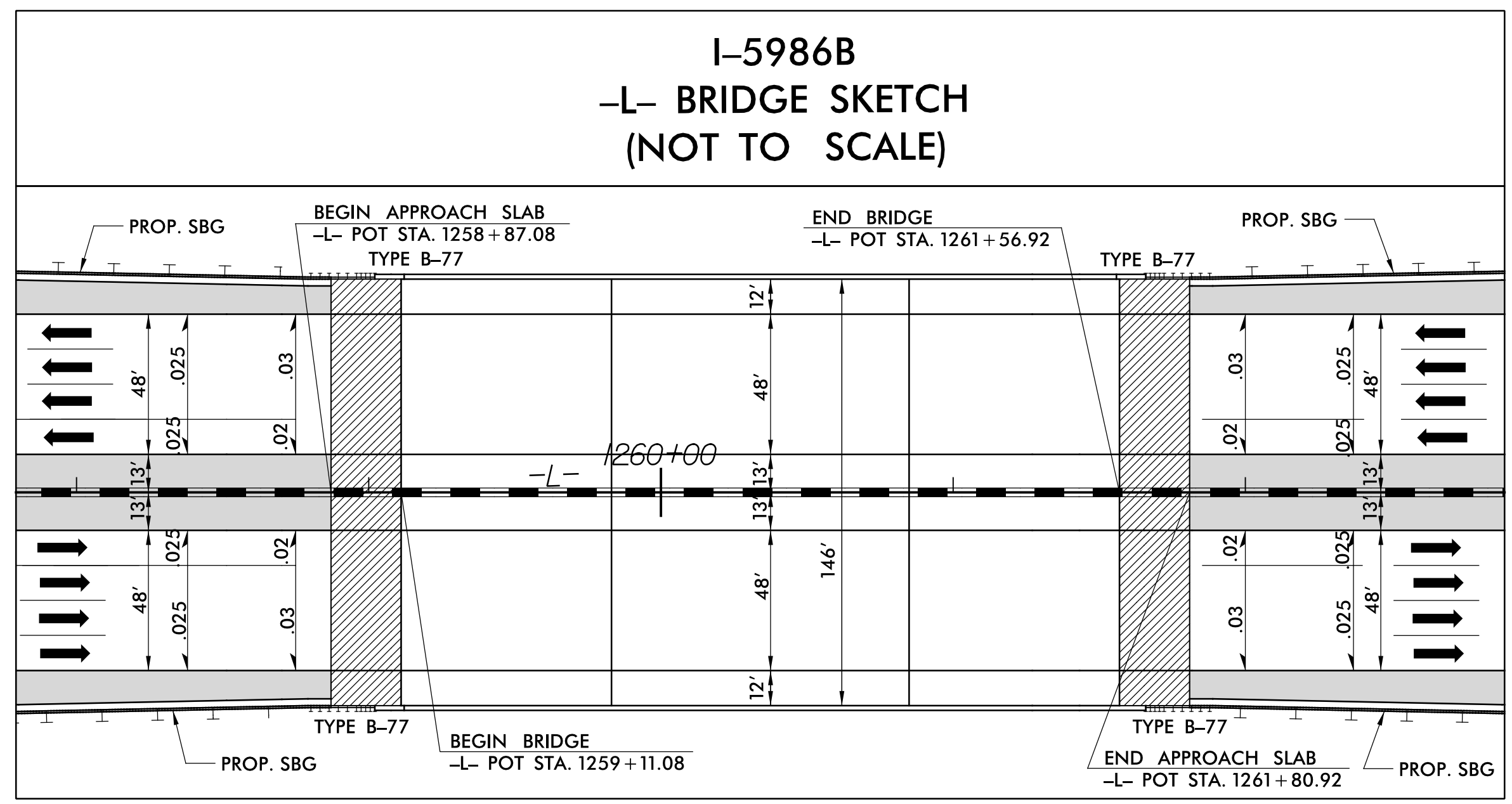
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DETAILS SHOWING PAVEMENT/BRIDGE RELATIONSHIP

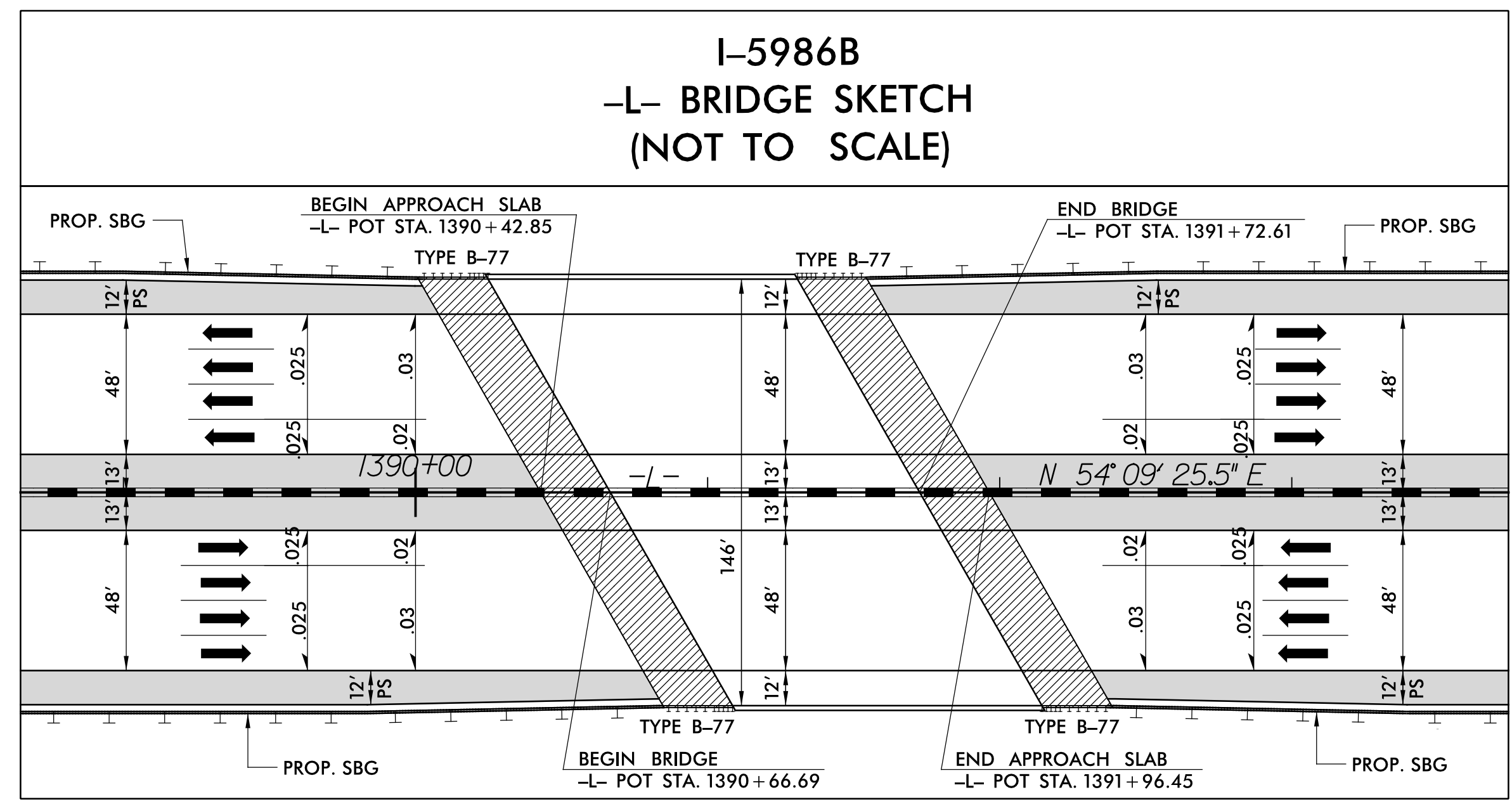


**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

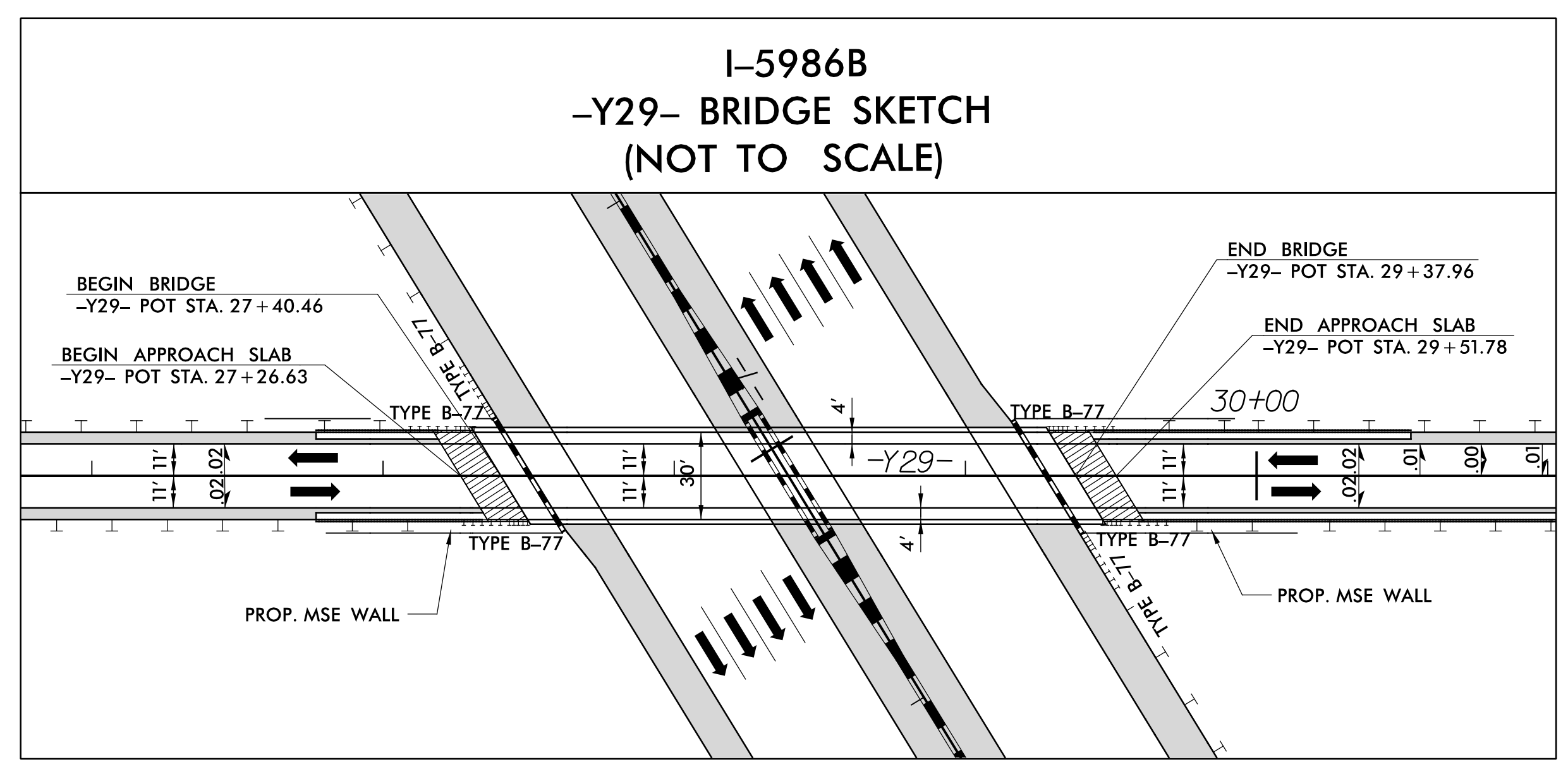
Michael Baker Engineering, Inc.
Michael Baker International



SEE SHEET 36 FOR BRIDGE LOCATION



SEE SHEET 45 FOR BRIDGE LOCATION



SEE SHEET 38 FOR BRIDGE LOCATION

5/14/2021

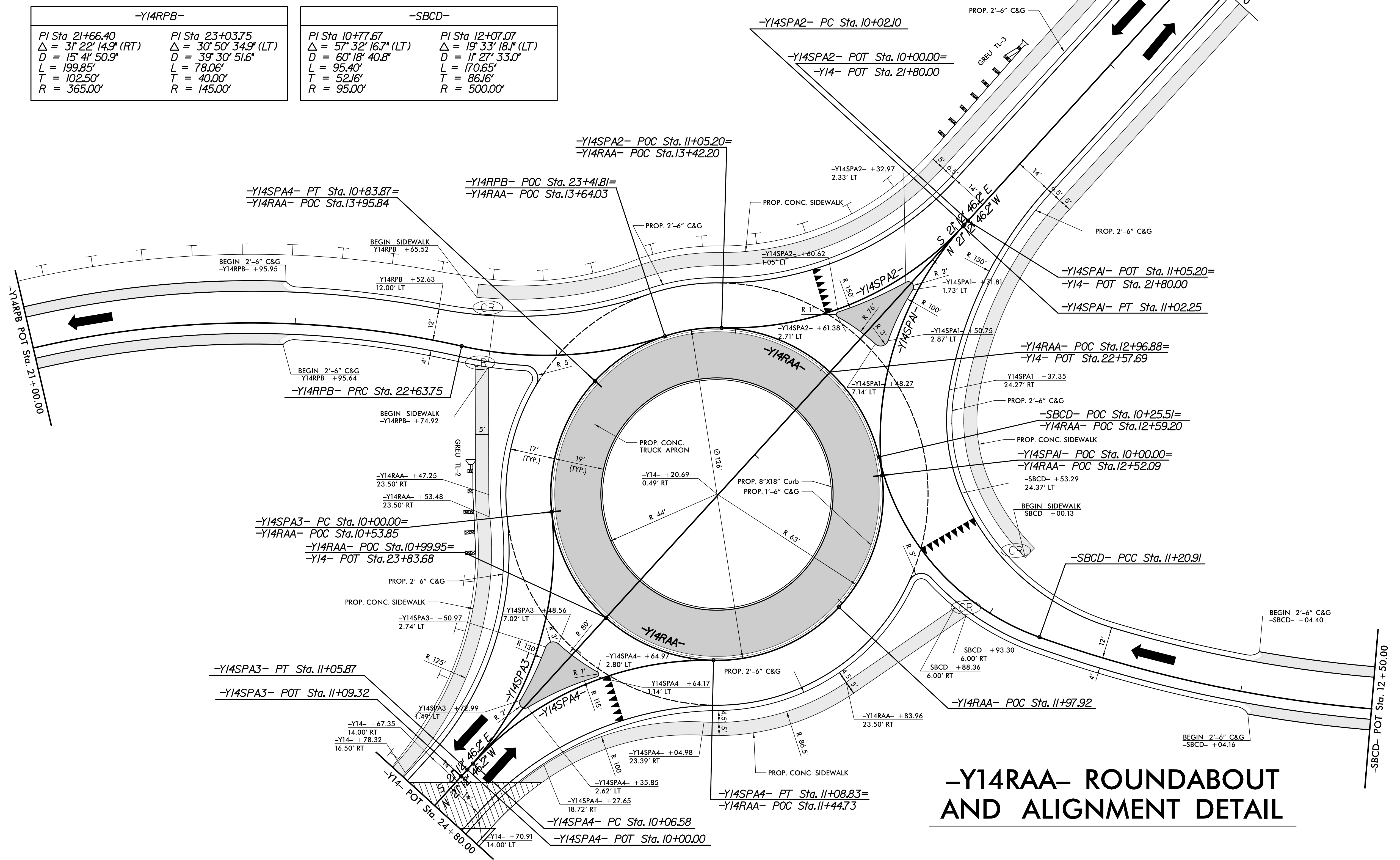
P:\15-MAY-2021\15315\I-5986B-RdY-sh-2B-3.dgn

ROADWAY DESIGN
ENGINEER
MICHAEL BAKER ENGINEERING, INC.
SEAL
027373
MICHAEL BAKER
INTERNATIONAL

Susan C. Lancaster 5/13/2021

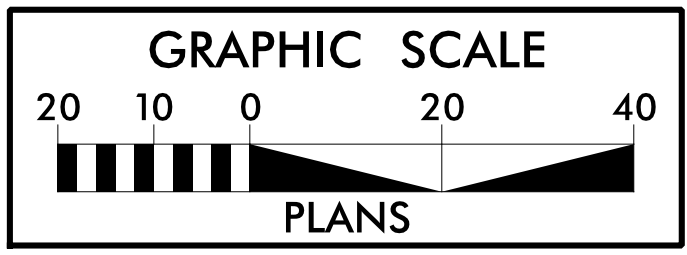
Michael Baker Engineering, Inc.
8000 Regency Park
Suite 500
Cary, NC 27518
NC License: F-1084

<p>-Y14RAA-</p> <p>PI Sta Undefined Δ = 180° 00' 00.0" (LT) D = 90° 56' 44.5" L = 197.92' T = Undefined R = 63.00'</p>	<p>-Y14SPA1-</p> <p>PI Sta 10+54.46 Δ = 48° 49' 11.0" (RT) D = 47° 44' 47.3" L = 102.25' T = 54.46' R = 120.00'</p>	<p>-Y14SPA2-</p> <p>PI Sta 10+57.07 Δ = 49° 13' 42.4" (RT) D = 47° 44' 47.3" L = 103.10' T = 54.98' R = 120.00'</p>	<p>-Y14SPA3-</p> <p>PI Sta 10+56.34 Δ = 48° 31' 35.7" (RT) D = 45° 50' 11.8" L = 105.87' T = 56.34' R = 125.00'</p>	<p>-Y14SPA4-</p> <p>PI Sta 10+61.04 Δ = 48° 49' 11.0" (RT) D = 47° 44' 47.3" L = 102.25' T = 54.46' R = 120.00'</p>
<p>-Y14RPB-</p> <p>PI Sta 21+66.40 Δ = 31° 22' 14.9" (RT) D = 15° 41' 50.9" L = 199.85' T = 102.50' R = 365.00'</p>	<p>PI Sta 23+03.75 Δ = 30° 50' 34.9" (LT) D = 39° 30' 51.6" L = 78.06' T = 40.00' R = 145.00'</p>	<p>-SBCD-</p> <p>PI Sta 10+77.67 Δ = 57° 32' 16.7" (LT) D = 60° 18' 40.8" L = 95.40' T = 52.16' R = 95.00'</p> <p>PI Sta 12+07.07 Δ = 19° 33' 18.1" (LT) D = 11° 27' 33.0" L = 170.65' T = 86.16' R = 500.00'</p>		



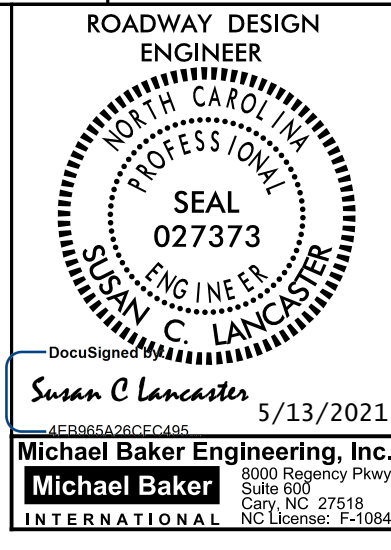
**-Y14RAA- ROUNDABOUT
AND ALIGNMENT DETAIL**

SPRING BRANCH RD.

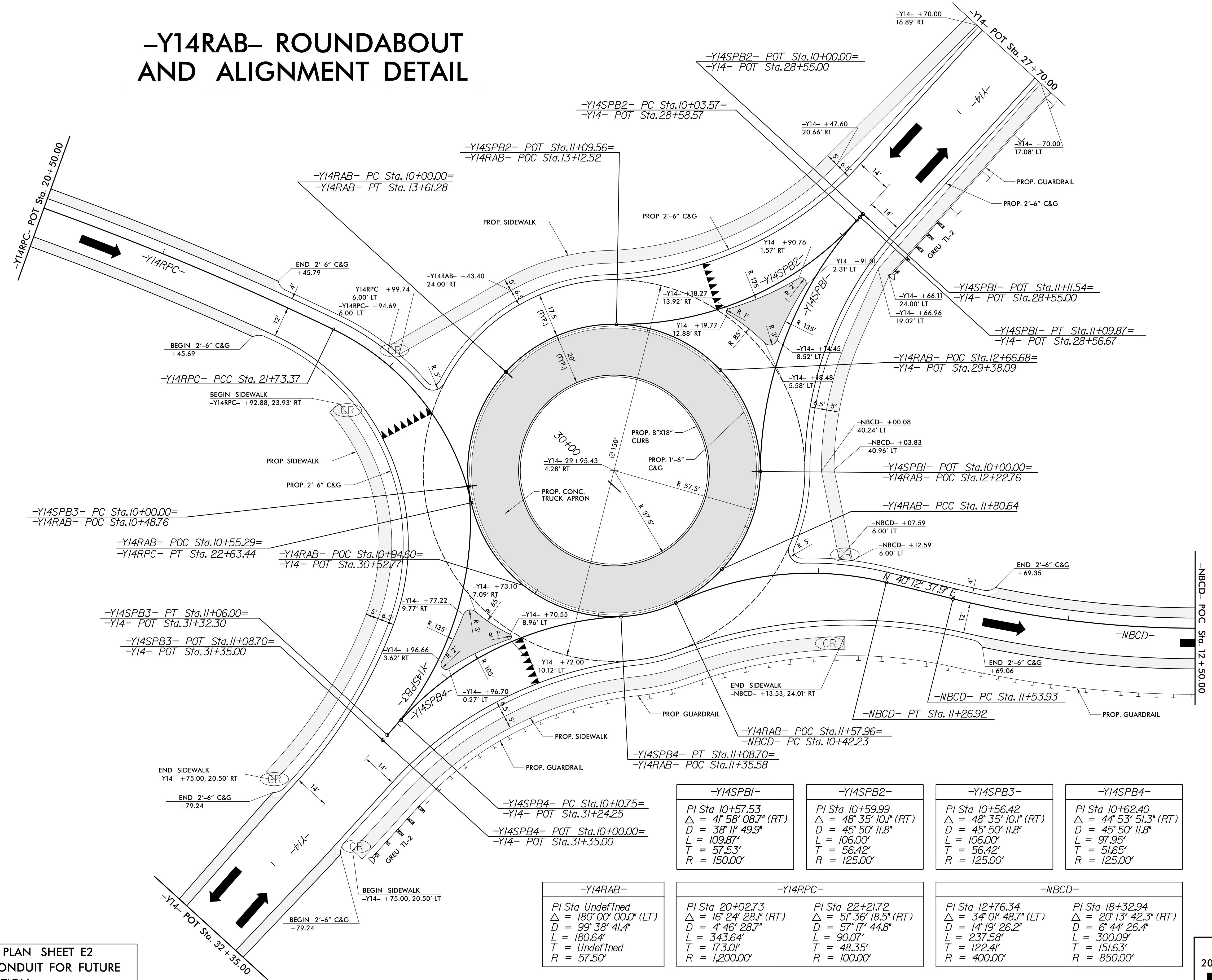


NOTE: SEE ELECTRICAL PLAN SHEET E2 FOR PLACEMENT OF CONDUIT FOR FUTURE LIGHTING AND IRRIGATION.

POPE RD.



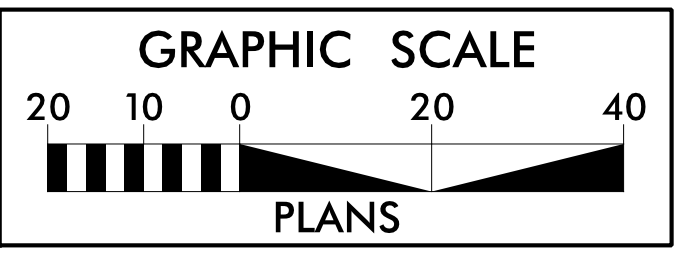
-Y14RAB- ROUNDABOUT AND ALIGNMENT DETAIL

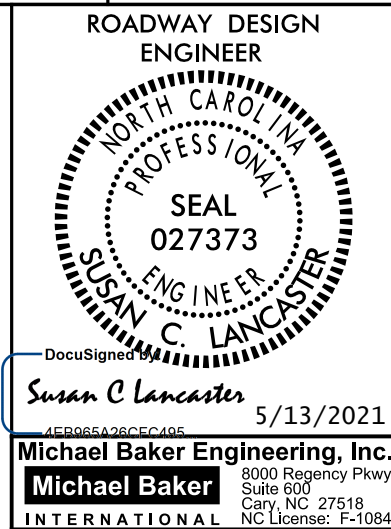


-Y14SPB1- PI Sta 10+57.53 $\Delta = 41^\circ 58' 08.7''$ (RT) $D = 38' 11'' 49.9''$ $L = 109.87'$ $T = 57.53'$ $R = 150.00'$	-Y14SPB2- PI Sta 10+59.99 $\Delta = 48^\circ 35' 10.1''$ (RT) $D = 45' 50'' 11.8''$ $L = 106.00'$ $T = 56.42'$ $R = 125.00'$	-Y14SPB3- PI Sta 10+56.42 $\Delta = 48^\circ 35' 10.1''$ (RT) $D = 45' 50'' 11.8''$ $L = 106.00'$ $T = 56.42'$ $R = 125.00'$	-Y14SPB4- PI Sta 10+62.40 $\Delta = 44^\circ 53' 51.3''$ (RT) $D = 45' 50'' 11.8''$ $L = 97.95'$ $T = 51.65'$ $R = 125.00'$
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-Y14RAB- PI Sta Undefined $\Delta = 180^\circ 00' 00.0''$ (LT) $D = 99' 38'' 41.4''$ $L = 180.64'$ $T = Undefined$ $R = 57.50'$	-Y14RPC- PI Sta 20+02.73 $\Delta = 16^\circ 24' 28.1''$ (RT) $D = 4' 46'' 28.7''$ $L = 343.64'$ $T = 173.01'$ $R = 1,200.00'$	-Y14RPC- PI Sta 22+21.72 $\Delta = 57^\circ 36' 18.5''$ (RT) $D = 57' 17'' 44.8''$ $L = 90.07'$ $T = 48.35'$ $R = 100.00'$	-NBCD- PI Sta 12+76.34 $\Delta = 34^\circ 01' 48.7''$ (LT) $D = 14' 19'' 26.2''$ $L = 237.58'$ $T = 122.41'$ $R = 400.00'$	-NBCD- PI Sta 18+32.94 $\Delta = 20^\circ 13' 42.3''$ (RT) $D = 6' 44'' 26.4''$ $L = 300.09'$ $T = 151.63'$ $R = 850.00'$
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NOTE: SEE ELECTRICAL PLAN SHEET E2 FOR PLACEMENT OF CONDUIT FOR FUTURE LIGHTING AND IRRIGATION.





-Y18RAA- ROUNDABOUT AND ALIGNMENT DETAIL

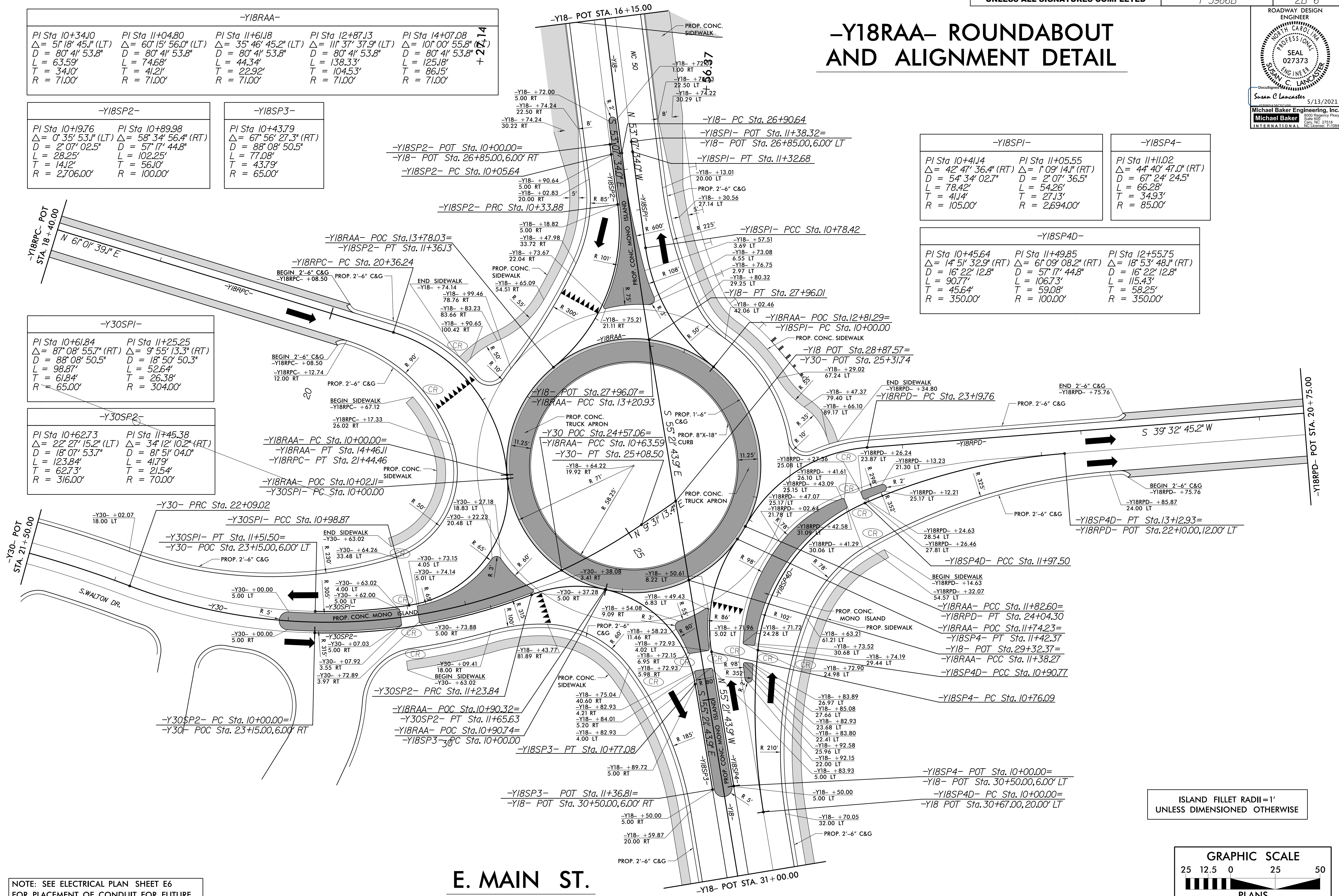
-Y18RAA-				
PI Sta 10+34.10 Δ = 51° 18' 45.1" (LT) D = 80' 41' 53.8" L = 63.59' T = 34.10' R = 71.00'	PI Sta 11+04.80 Δ = 60° 15' 56.0" (LT) D = 80' 41' 53.8" L = 74.68' T = 41.21' R = 71.00'	PI Sta 11+61.18 Δ = 35° 46' 45.2" (LT) D = 80' 41' 53.8" L = 44.34' T = 22.92' R = 71.00'	PI Sta 12+87.13 Δ = 111° 37' 37.9" (LT) D = 80' 41' 53.8" L = 138.33' T = 104.53' R = 71.00'	PI Sta 14+07.08 Δ = 101° 00' 55.8" (LT) D = 80' 41' 53.8" L = 125.18' T = 86.15' R = 71.00'

-Y18SP2-	
PI Sta 10+19.76 Δ = 0° 35' 53.1" (LT) D = 2° 07' 02.5" L = 28.25' T = 14.12' R = 2,706.00'	PI Sta 10+89.98 Δ = 58° 34' 56.4" (RT) D = 57° 17' 44.8" L = 102.25' T = 56.10' R = 100.00'

-Y18SP3-
PI Sta 10+43.79 Δ = 67° 56' 27.3" (RT) D = 88° 08' 50.5" L = 77.08' T = 43.79' R = 65.00'

-Y30SPI-	
PI Sta 10+61.84 Δ = 87° 08' 55.7" (RT) D = 88° 08' 50.5" L = 98.87' T = 61.84' R = 65.00'	PI Sta 11+25.25 Δ = 9° 55' 13.3" (RT) D = 18° 50' 50.3" L = 52.64' T = 26.38' R = 304.00'

-Y30SP2-	
PI Sta 10+62.73 Δ = 22° 27' 15.2" (LT) D = 18° 07' 53.7" L = 123.84' T = 62.73' R = 316.00'	PI Sta 11+45.38 Δ = 34° 12' 10.2" (RT) D = 81° 51' 04.0" L = 41.79' T = 21.54' R = 70.00'



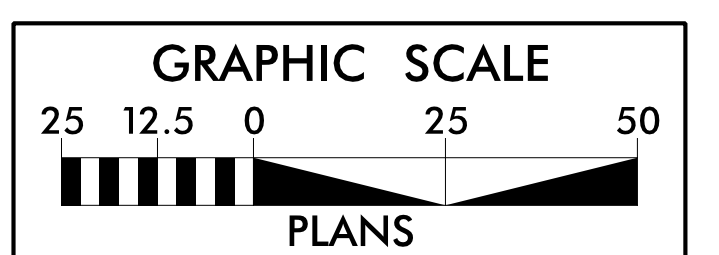
-Y18SPI-	
PI Sta 10+41.14 Δ = 42° 47' 36.4" (RT) D = 54° 34' 02.7" L = 78.42' T = 41.14' R = 105.00'	PI Sta 11+05.55 Δ = 1° 09' 14.1" (RT) D = 2° 07' 36.5" L = 54.26' T = 27.13' R = 2,694.00'

-Y18SP4-
PI Sta 11+11.02 Δ = 44° 40' 47.0" (RT) D = 67° 24' 24.5" L = 66.28' T = 34.93' R = 85.00'

-Y18SP4D-		
PI Sta 10+45.64 Δ = 14° 51' 32.9" (RT) D = 16° 22' 12.8" L = 90.77' T = 45.64' R = 350.00'	PI Sta 11+49.85 Δ = 6° 09' 08.2" (RT) D = 57° 17' 44.8" L = 106.73' T = 59.08' R = 100.00'	PI Sta 12+55.75 Δ = 18° 53' 48.1" (RT) D = 16° 22' 12.8" L = 115.43' T = 58.25' R = 350.00'

E. MAIN ST.

ISLAND FILLET RADII = 1'
UNLESS DIMENSIONED OTHERWISE



NOTE: SEE ELECTRICAL PLAN SHEET E6 FOR PLACEMENT OF CONDUIT FOR FUTURE LIGHTING AND IRRIGATION.

FOR PLAN VIEW, SEE SHEET 42

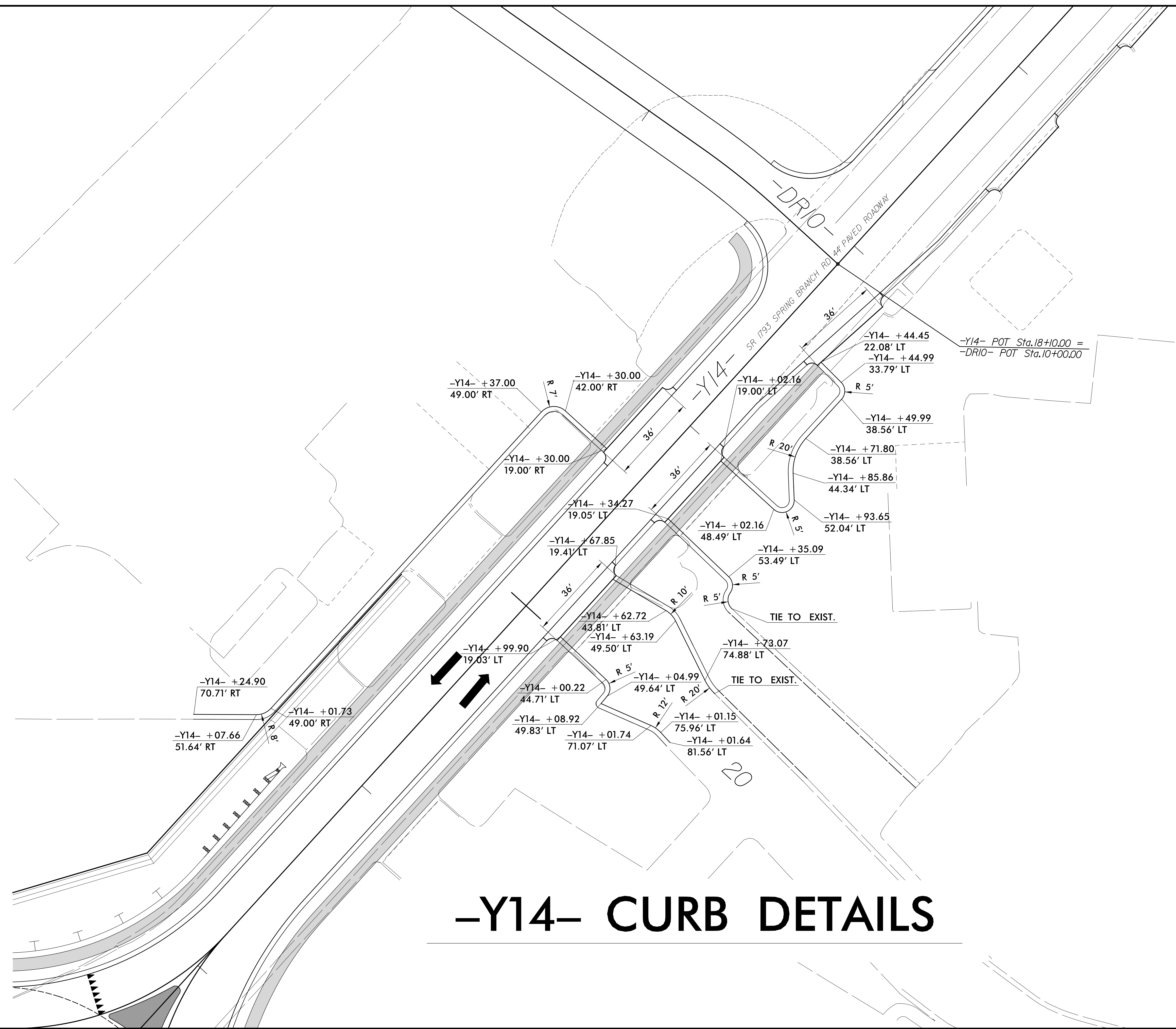
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ROADWAY DESIGN
ENGINEER
NORTH CAROLINA
PROFESSIONAL
SEAL
027373
SUSAN C. LANCASTER

DocuSign
Susan C. Lancaster 5/13/2021

Michael Baker Engineering, Inc.
8000 Regency Drive
Suite 500
Cary, NC 27519
INTERNATIONAL NC License: F-1084

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



-Y14- CURB DETAILS

NOT TO SCALE

FOR -DR10- ALIGNMENT SEE SHEET 17
FOR -Y14- ALIGNMENT SEE SHEET 17

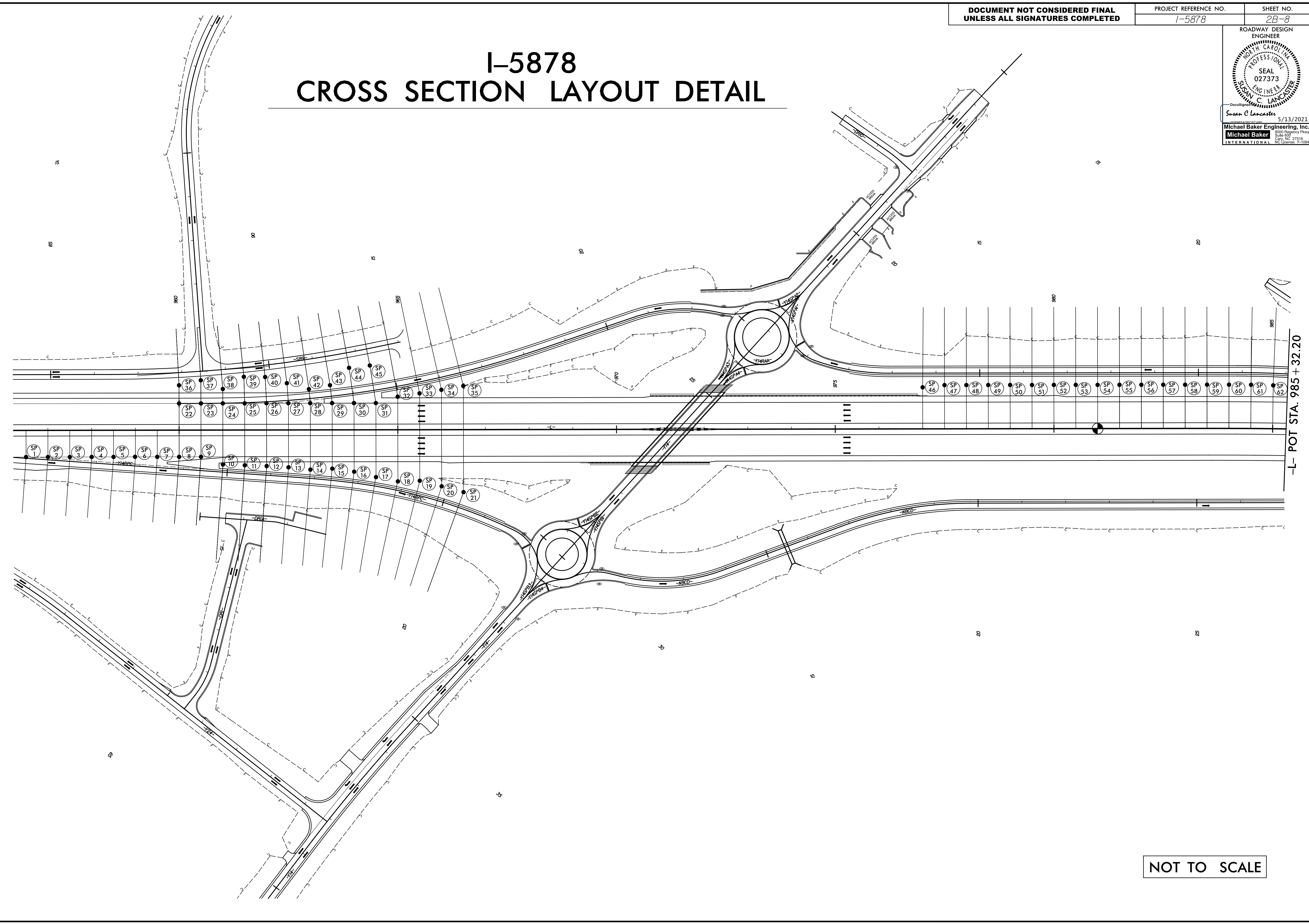
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I-5878 CROSS SECTION LAYOUT DETAIL

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PROFESSIONAL SEAL
027373
MICHAEL BAKER ENGINEERING, INC.
INTERNATIONAL

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-L- POT STA. 985 + 32.20

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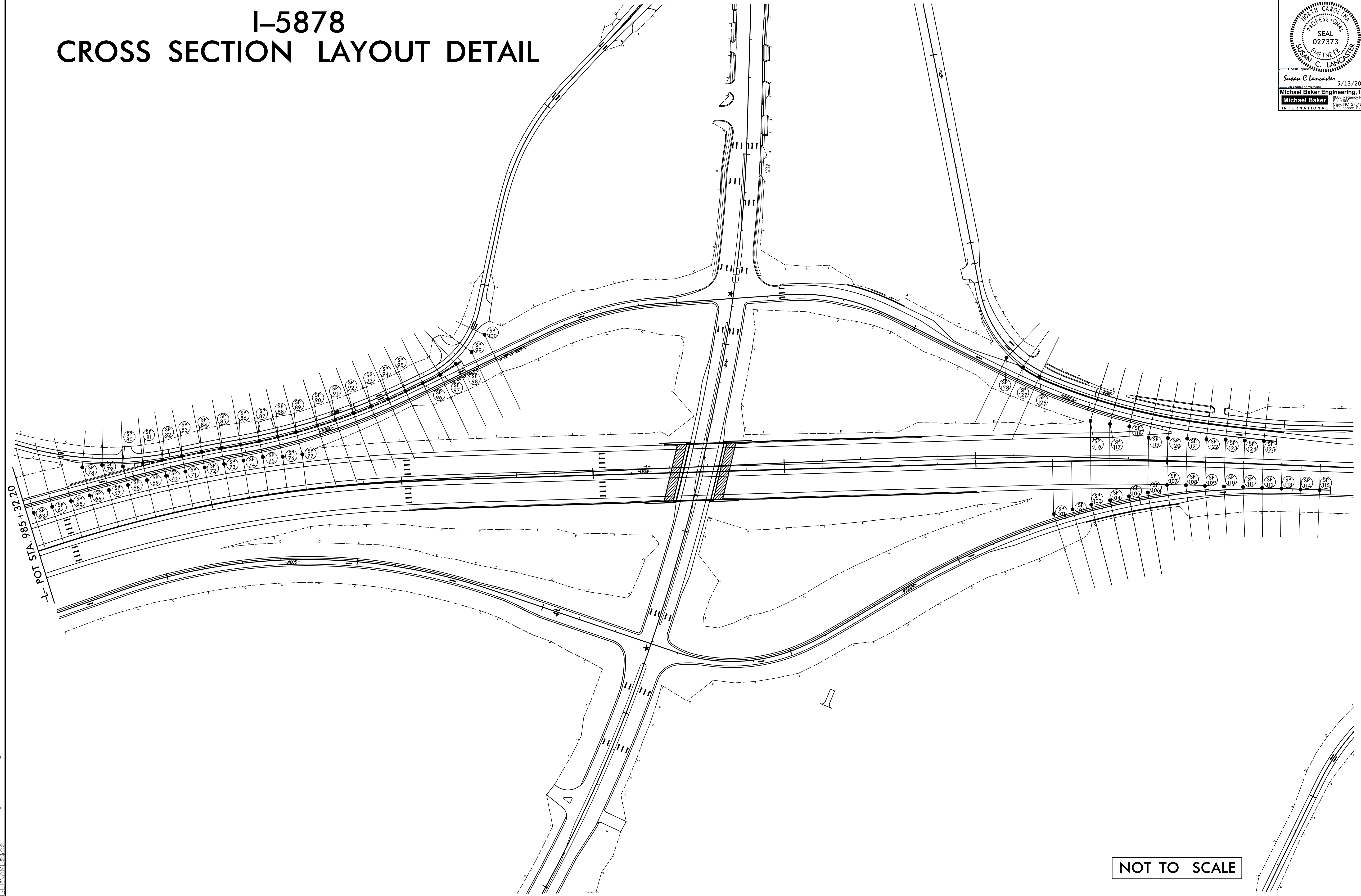
5/14/99

I-5878 CROSS SECTION LAYOUT DETAIL

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ENGINEER

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Michael Baker Engineering, Inc.
8000 Regency Park
Charlotte, NC 27518
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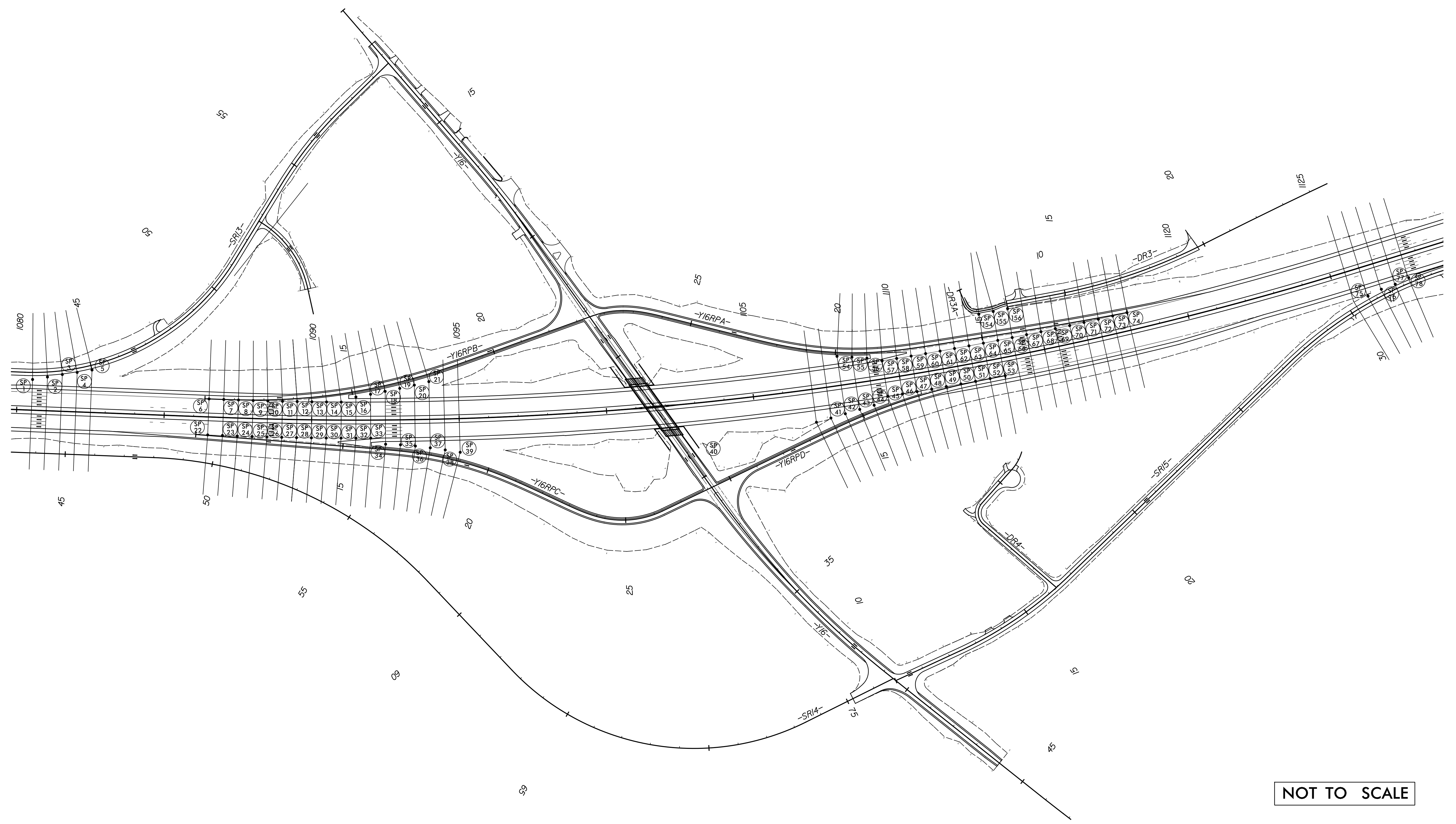
ROADWAY DESIGN
ENGINEER



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INTERNATIONAL

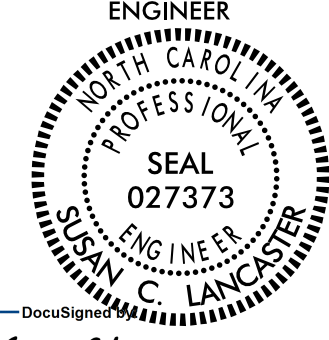
I-5883 CROSS SECTION LAYOUT DETAIL



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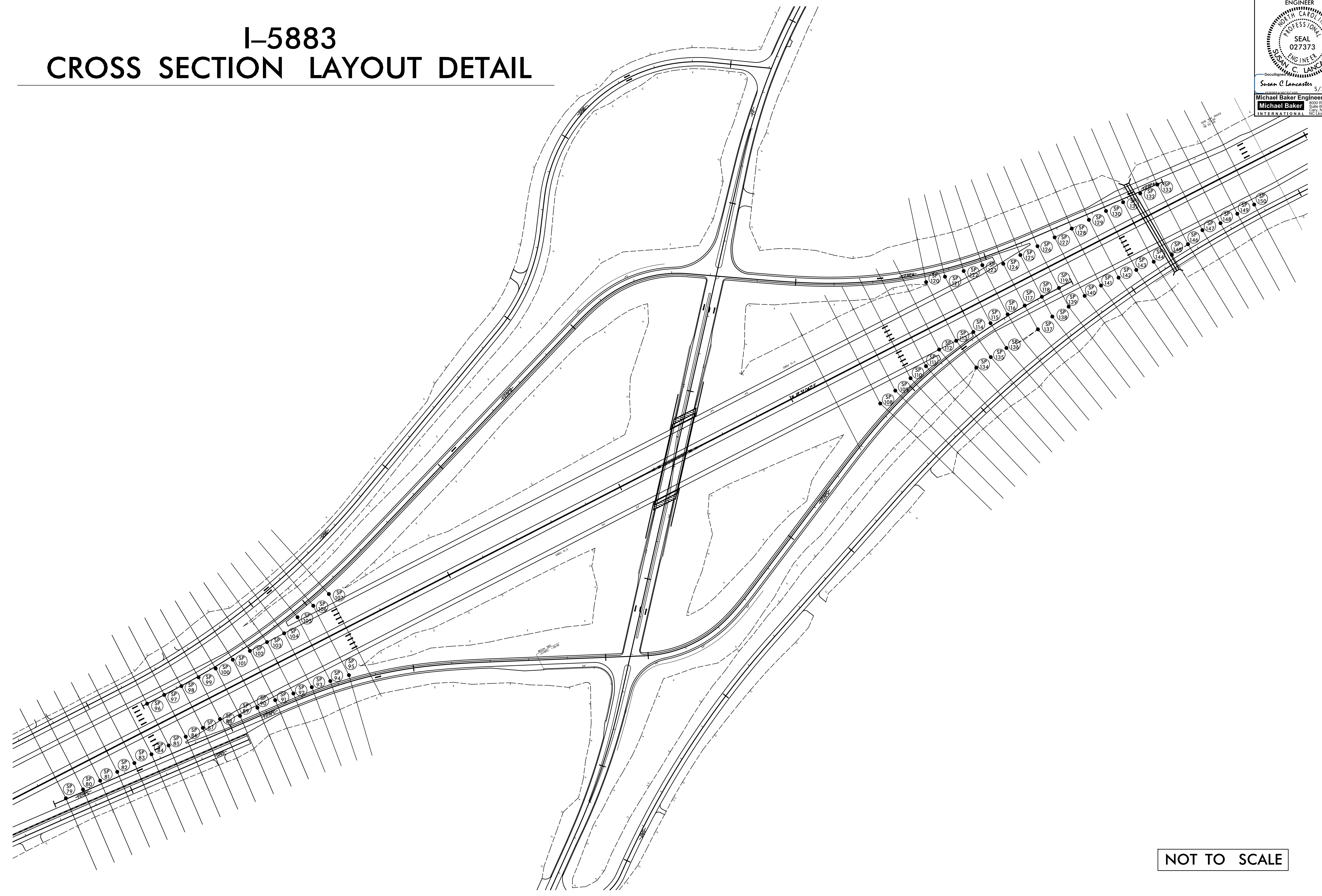
I-5883 CROSS SECTION LAYOUT DETAIL

ROADWAY DESIGN
ENGINEER

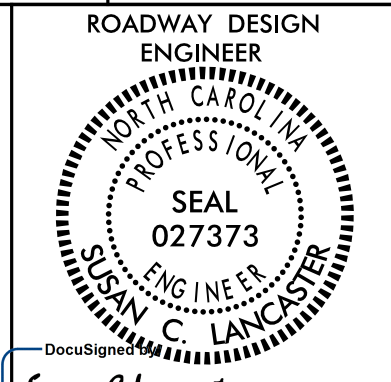


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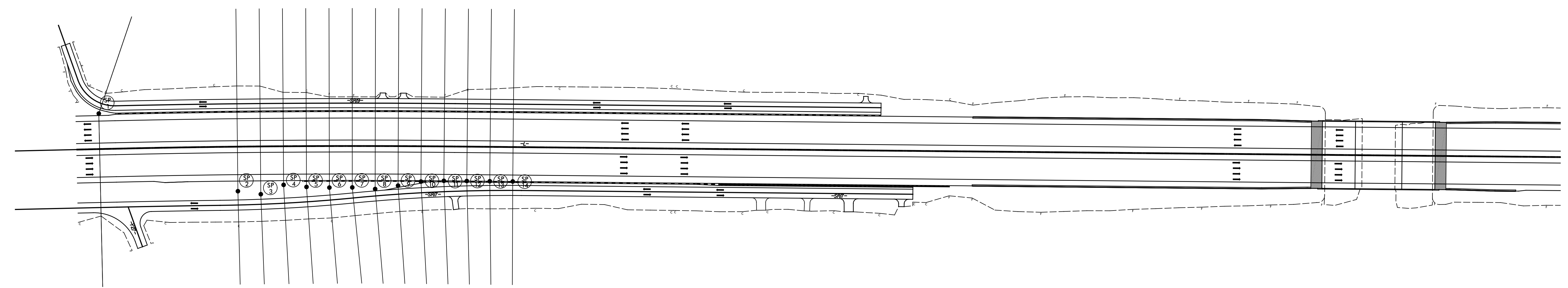


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 Cary, NC 27518
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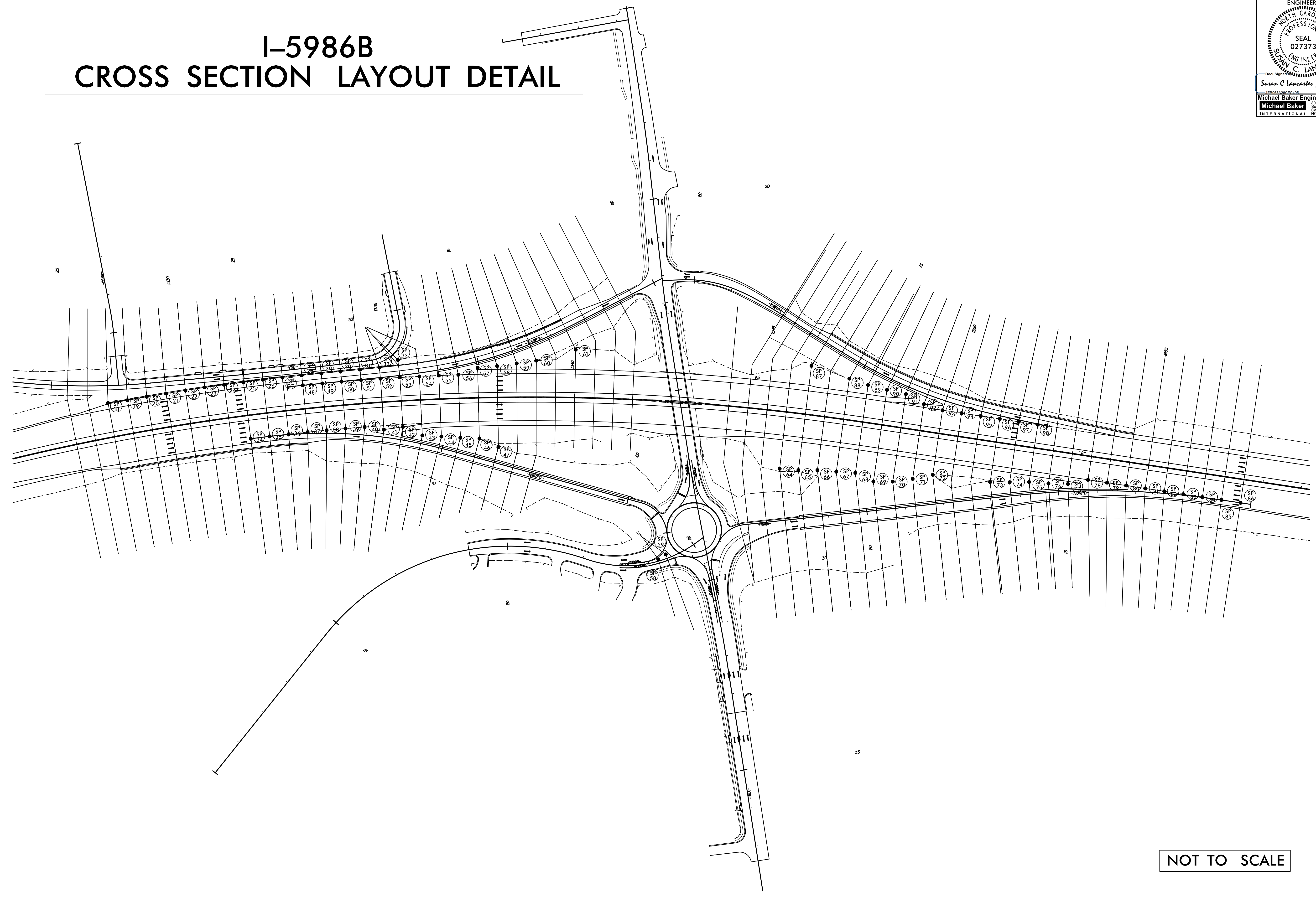
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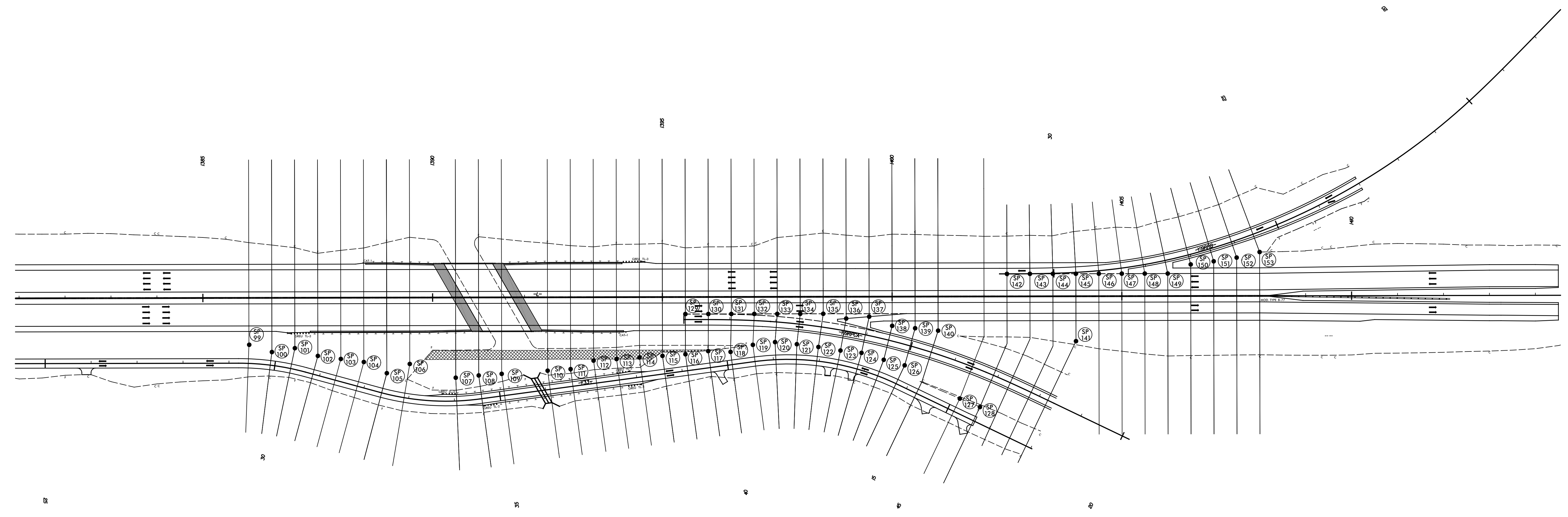
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5/14/2021

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