

15/07/2024

See Sheet 1A For Index of Sheets
See Sheet 1B for Conventional Symbols

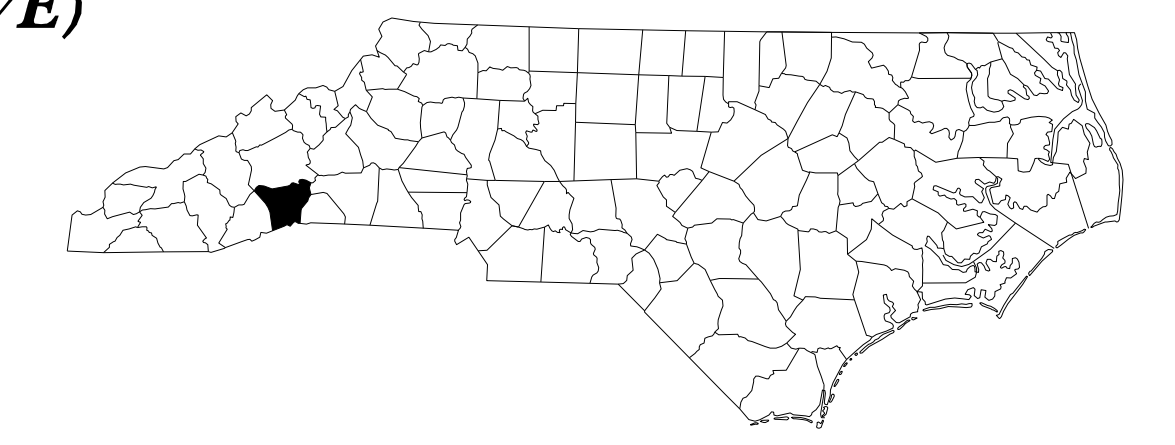
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

HENDERSON COUNTY

**LOCATION: US 64 (BREVARD ROAD) FROM SR 1173 (WHITE PINE DRIVE)
TO SR 2162 (BLYTHE STREET)**

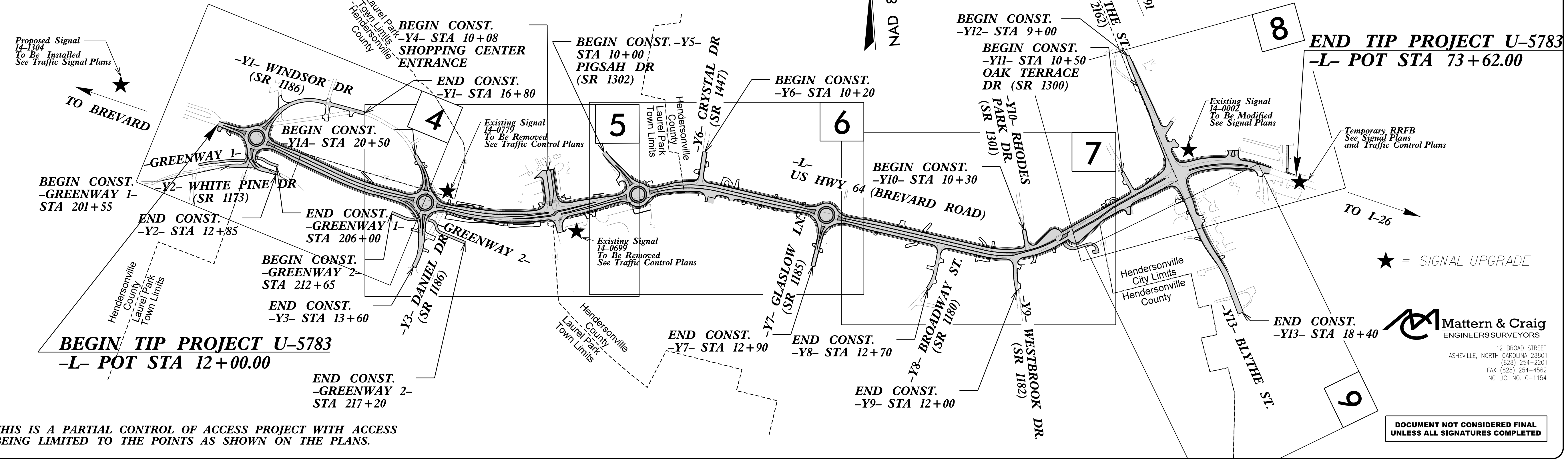
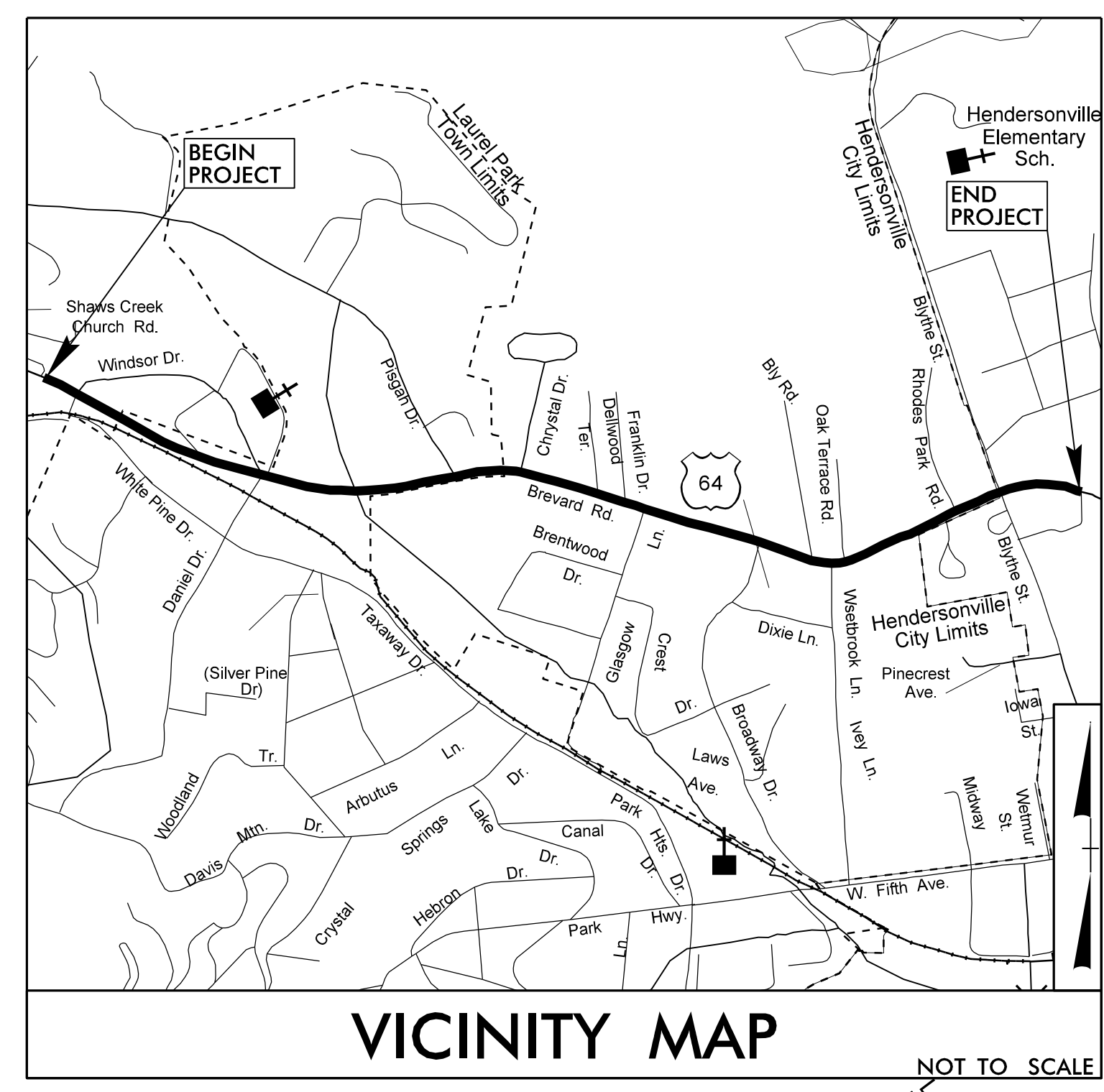
**TYPE OF WORK: GRADING, DRAINAGE, PAVING, SIGNALS,
AND RETAINING WALLS**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-5783	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
44354.1.R1		P.E.	
44354.2.1		ROW	
44354.2.2		UTILITIES	
44354.3.1		CONST.	

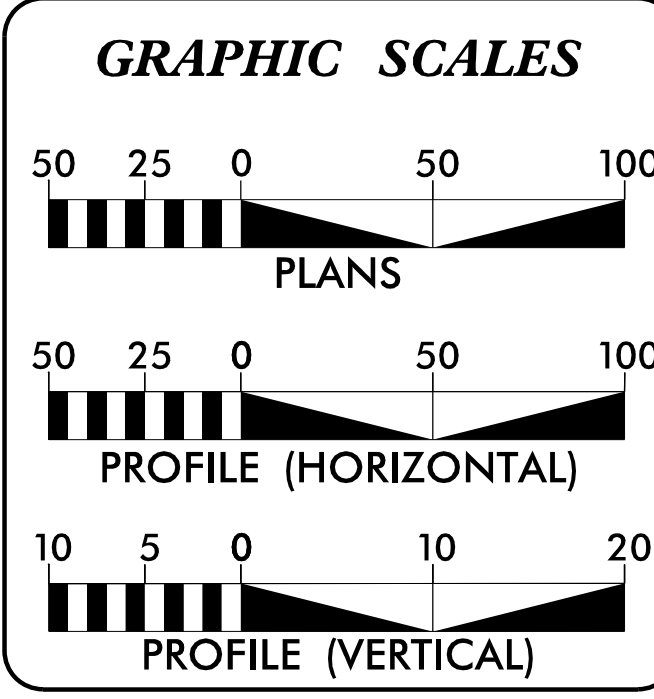


TIP PROJECT: U-5783

CONTRACT: C204937



THIS IS A PARTIAL CONTROL OF ACCESS PROJECT WITH ACCESS BEING LIMITED TO THE POINTS AS SHOWN ON THE PLANS.



DESIGN DATA

ADT 2024 =	17,760
ADT 2044 =	22,160
K =	10 %
D =	60 %
T =	5 % *
V =	40 MPH
* (TTST 1% + DUALS 4%)	
FUNC CLASS =	
URBAN ARTERIAL	
REGIONAL TIER	

PROJECT LENGTH

LENGTH OF ROADWAY TIP PROJECT U-5783 =	1.167 MILES
TOTAL LENGTH OF TIP PROJECT U-5783 =	1.167 MILES

Prepared in the Office of:
MATTERN & CRAIG
12 BROAD ST.
ASHEVILLE, NC 28801
FOR NCDOT DIVISION OF HIGHWAYS

2024 STANDARD SPECIFICATIONS	
RIGHT OF WAY DATE:	JAMES B. VOSO, PE PROJECT ENGINEER
June 29, 2021	
LETTING DATE:	AARON C. CARVER, PE PROJECT DESIGN ENGINEER
August 20, 2024	
	JEANETTE WHITE, PE NCDOT DIVISION 14 CONTACT

HYDRAULICS ENGINEER

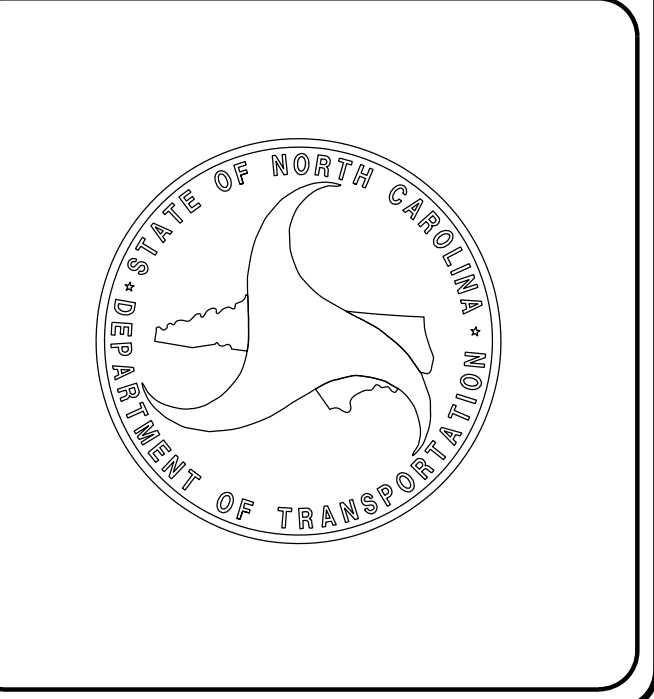
DocuSigned by:
Asaon C. Carver
8250842A220F49C...

SIGNATURE: _____

ROADWAY DESIGN ENGINEER

DocuSigned by:
Asaon C. Carver
8250842A220F49C...

SIGNATURE: _____



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Mattern & Craig
ENGINEERS/SURVEYORS
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NC LIC. NO. C-1154

INDEX OF SHEETS

SHEET NUMBER	SHEET
1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARD DRAWINGS
1B	CONVENTIONAL PLAN SHEET SYMBOLS
2A-1 thru 2A-7	PAVEMENT SCHEDULE & TYPICAL SECTIONS
2B-1 thru 2B-4	INTERSECTION DETAIL SHEETS
2C-1	DETAIL OF PIPE HANDRAIL
2C-2	DETAIL OF CURB RAMP
3B-1	PAVEMENT REMOVAL SUMMARY & GUARDRAIL SUMMARY
3B-2	SUMMARY OF EARTHWORK
3D-1 thru 3D-6	DRAINAGE SUMMARIES
3G-1	GEOTECHNICAL SUMMARIES
3P-1	PARCEL INDEX SHEET
4 thru 20	PLAN SHEETS AND PROFILE SHEETS
RW-1 thru RW-9	SURVEY CONTROL, EXISTING CENTERLINES, RIGHT OF WAY, EASEMENT, AND PROPERTY TIES
TMP-1 thru TMP-30	TRAFFIC MANAGEMENT PLANS
PMP-1 thru PMP-2K	PAVEMENT MARKING PLANS
EC-1 thru EC-15	EROSION CONTROL PLANS
SIGN-1 thru SIGN-3E	SIGNING PLANS
SIG-1 thru SIG-7.1	SIGNAL PLANS
SCP-01	WIRELESS COMMUNICATIONS PLAN
SIG.M1 thru SIG.M8	STANDARD METAL POLE SHEETS
UC-1 thru UC-7A	UTILITIES CONSTRUCTION PLANS
UD-1 thru UD-9	UTILITIES BY OTHERS PLANS
X0	CROSS SECTION INDEX SHEET
X-0A thru X-0B	CROSS SECTION SUMMARY SHEETS
X-1 thru X-78	CROSS SECTIONS
W-1 thru W-6A	WALL PLANS

GENERAL NOTES

GENERAL NOTES:

2024 SPECIFICATIONS
EFFECTIVE: 01-16-2024
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 11.

SUPERELEVATION:
ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NO. 225.04 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.

DRIVEWAYS:
DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. 848.03 AT LOCATIONS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER.

STREET TURNOUT:
STREET RETURNS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 848.04 USING THE RADIUS 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".

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

UTILITIES:
UTILITY OWNERS ON THIS PROJECT ARE:
POWER = DUKE ENERGY
TELEPHONE = AT&T
NATURAL GAS = DOMINION ENERGY
CATV = MORRIS BROADBAND/OPTIMUM
FIBER = VYVE COMMUNICATIONS
WATER & SEWER = CITY OF HENDERSONVILLE

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.

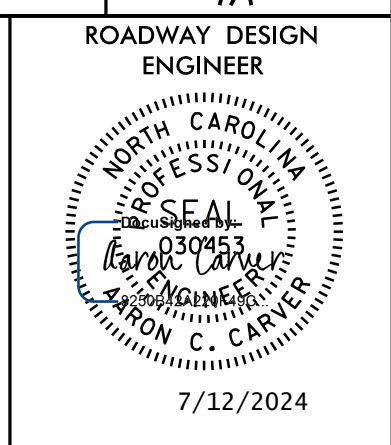
ENVIRONMENTALLY SENSITIVE AREAS AND HISTORIC PROPERTIES:
ORANGE SAFETY FENCE WILL BE USED TO ISOLATE CONSTRUCTION FROM ENVIRONMENTALLY SENSITIVE AREAS AND HISTORIC PROPERTIES.

STANDARD DRAWINGS

2024 ROADWAY ENGLISH STANDARD DRAWINGS

The following Roadway Standards as appear in "Roadway Standard Drawings" Contracts Standards and Development Unit - N. C. Department of Transportation - Raleigh, N. C., Dated January 16, 2024 are applicable to this project and by reference hereby are considered a part of these plans:

STD. NO.	TITLE
DIVISION 2 - EARTHWORK	
200.02	Method of Clearing - Method 11
225.02	Guide for Grading Subgrade - Secondary and Local
225.04	Method of Obtaining Superelevation - Two Lane Pavement
225.06	Method of Grading Sight Distance at Intersections
240.01	Guide for Berm Ditch Construction
DIVISION 3 - PIPE CULVERTS	
300.01	Method of Pipe Installation
310.10	Driveway Pipe Construction
DIVISION 5 - SUBGRADE, BASES AND SHOULDERS	
560.01	Method of Shoulder Construction - High Side of Superelevated Curve - Method 1
DIVISION 6 - ASPHALT BASES AND PAVEMENTS	
654.01	Pavement Repairs
DIVISION 8 - INCIDENTALS	
806.03	Concrete Contol of Access Marker
815.02	Subsurface Drain
838.01	Concrete Endwall for Single and Double Pipe Culverts - 15" thru 48" Pipe 90 Skew
838.11	Brick Endwall for Single and Double Pipe Culverts - 15" thru 48" 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
840.14	Concrete Drop Inlet - 12" thru 30" Pipe
840.15	Brick Drop Inlet - 12" thru 30" Pipe
840.16	Drop Inlet Frame and Grates - for use with Std. Dwg 840.14 and 840.15
840.18	Concrete Grated Drop Inlet Type 'B' - 12" thru 36" Pipe
840.25	Anchorage for Frames
840.27	Brick Grated Drop Inlet Type 'B' - 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
840.45	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
848.01	Concrete Sidewalk
848.03	Driveway Turnout - Drop Curb Type
848.04	Street Turnout
848.06	Curb Ramp
850.10	Guide for Berm Drainage Outlet - 15" and 18" Pipe
852.01	Concrete Islands
852.02	Concrete Mountable Median - for Use with Rigid or Flexible Pavement
852.04	Method for Placement of Drop Inlets in Grassed Median - Using 1'-6" Curb and Gutter
852.06	Method for Placement of Drop Inlets in Concrete Islands
862.01	Guardrail Placement
862.02	Guardrail Installation
867.02	Steel Bollards
876.01	Rip Rap in Channels and Ditches
876.02	Guide for Rip Rap at Pipe Outlets
876.04	Drainage Ditches with Class 'B' Rip Rap



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

Note: Not to Scale

BOUNDARIES AND PROPERTY:

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

BUILDINGS AND OTHER CULTURE:

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

HYDROLOGY:

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

RAILROADS:

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

RIGHT OF WAY & PROJECT CONTROL:

Primary Horiz Control Point	○
Primary Horiz and Vert Control Point	●
Secondary Horiz and Vert Control Point	◆
Vertical Benchmark	⊕
Existing Right of Way Monument	△
Proposed Right of Way Monument (Rebar and Cap)	▲
Proposed Right of Way Monument (Concrete)	⊕
Existing Permanent Easement Monument	◇
Proposed Permanent Easement Monument (Rebar and Cap)	◆
Existing C/A Monument	△
Proposed C/A Monument (Rebar and Cap)	▲
Proposed C/A Monument (Concrete)	⊕
Existing Right of Way Line	▬
Proposed Right of Way Line	▬
Existing Control of Access Line	▬
Proposed Control of Access Line	▬
Proposed ROW and CA Line	▬
Existing Easement Line	▬
Proposed Temporary Construction Easement	▬
Proposed Temporary Drainage Easement	▬
Proposed Permanent Drainage Easement	▬
Proposed Permanent Drainage/Utility Easement	▬
Proposed Permanent Utility Easement	▬
Proposed Temporary Utility Easement	▬
Proposed 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	○
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:

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

POWER:	
Existing Power Pole	●
Proposed Power Pole	○
Existing Joint Use Pole	●
Proposed Joint Use Pole	○
Power Manhole	○
Power Line Tower	▬
Power Transformer	▬
U/G Power Cable Hand Hole	▬
H-Frame Pole	●
U/G Power Line Test Hole (SUE - LOS A)*	●
U/G Power Line (SUE - LOS B)*	▬
U/G Power Line (SUE - LOS C)*	▬
U/G Power Line (SUE - LOS D)*	▬

TELEPHONE:

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

WATER:

Water Manhole	○
Water Meter	○
Water Valve	⊗
Water Hydrant	⊕
U/G Water Line Test Hole (SUE - LOS A)*	●
U/G Water Line (SUE - LOS B)*	▬
U/G Water Line (SUE - LOS C)*	▬
U/G Water Line (SUE - LOS D)*	▬
Above Ground Water Line	▬

TV:

TV Pedestal	▬
TV Tower	⊗
U/G TV Cable Hand Hole	▬
U/G TV Test Hole (SUE - LOS A)*	●
U/G TV Cable (SUE - LOS B)*	▬
U/G TV Cable (SUE - LOS C)*	▬
U/G TV Cable (SUE - LOS D)*	▬
U/G Fiber Optic Cable (SUE - LOS B)*	▬
U/G Fiber Optic Cable (SUE - LOS C)*	▬
U/G Fiber Optic Cable (SUE - LOS D)*	▬

GAS:

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

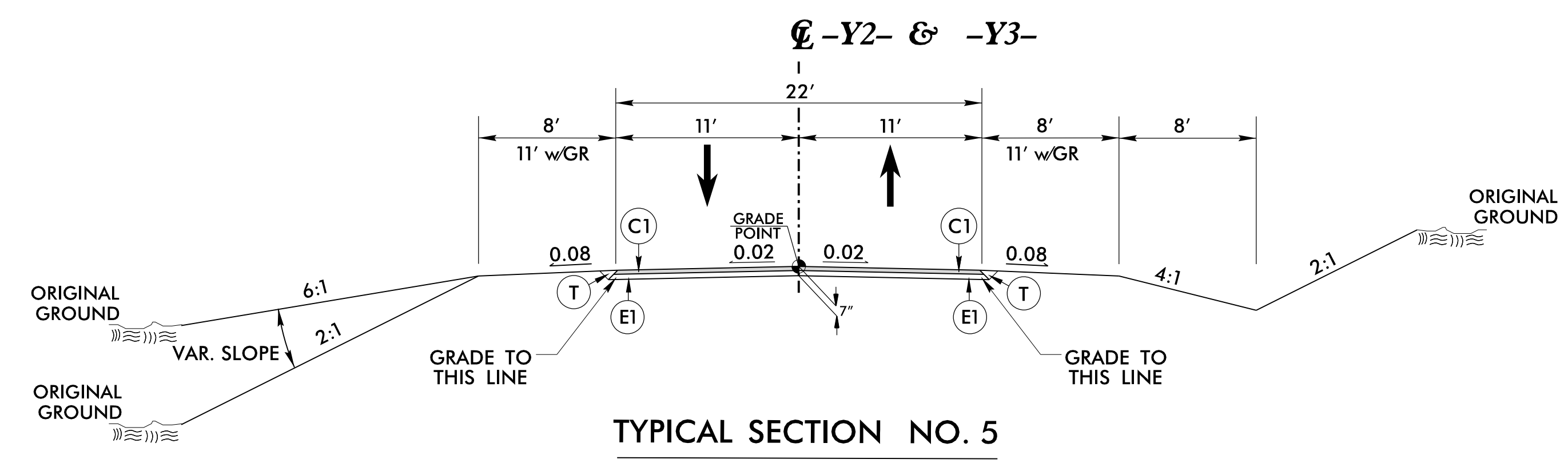
SANITARY SEWER:

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

MISCELLANEOUS:

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

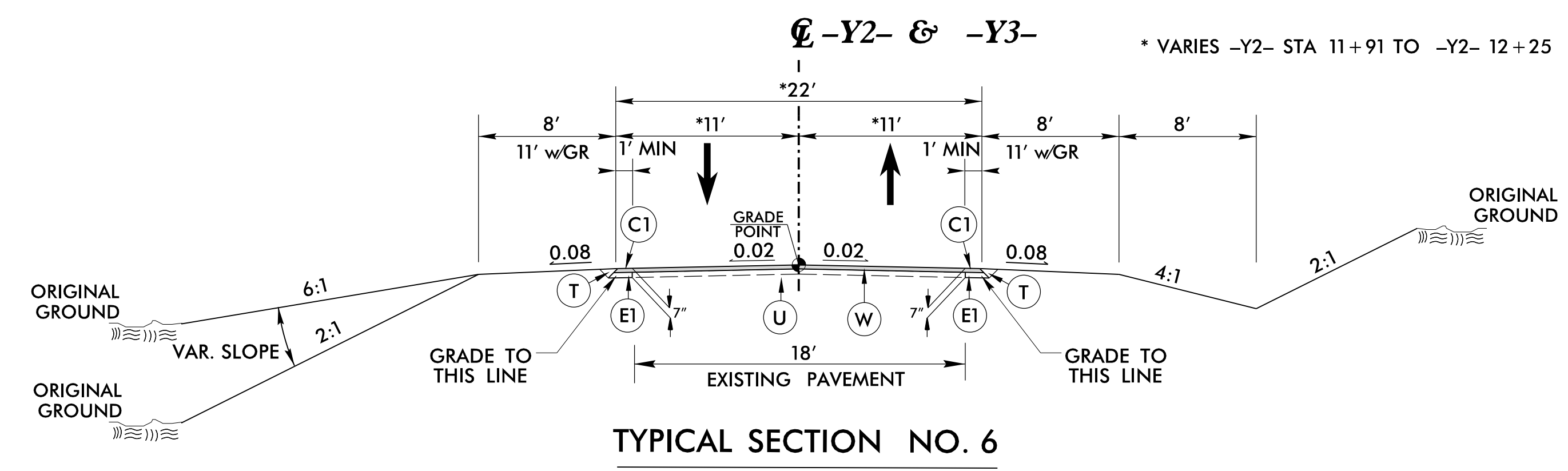
PROJECT REFERENCE NO. U-5783	SHEET NO. 2A-3
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



TYPICAL SECTION NO. 5

USE TYPICAL SECTION NO. 5

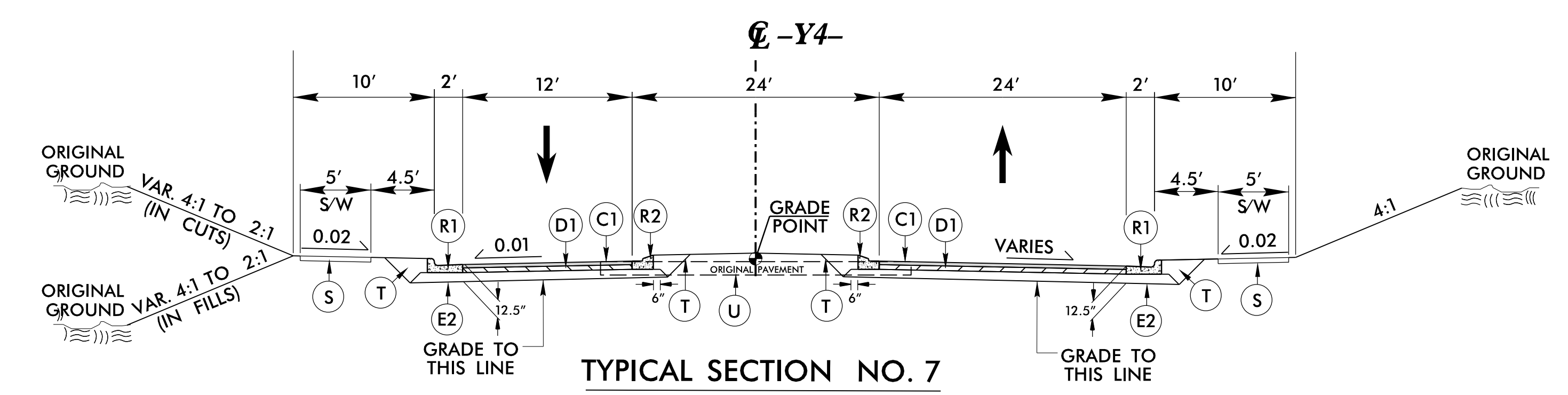
-Y2- STA. 10+65.00 TO -Y2- STA. 11+80.00
 -Y3- STA. 10+65.00 TO -Y3- STA. 12+90.00



TYPICAL SECTION NO. 6

USE TYPICAL SECTION NO. 6

-Y2- STA. 11+80.00 TO -Y2- STA. 12+85.00
 -Y3- STA. 12+90.00 TO -Y3- STA. 13+60.00



TYPICAL SECTION NO. 7

USE TYPICAL SECTION NO. 7

-Y4- STA. 10+08.00 TO -Y4- STA. 12+19.85

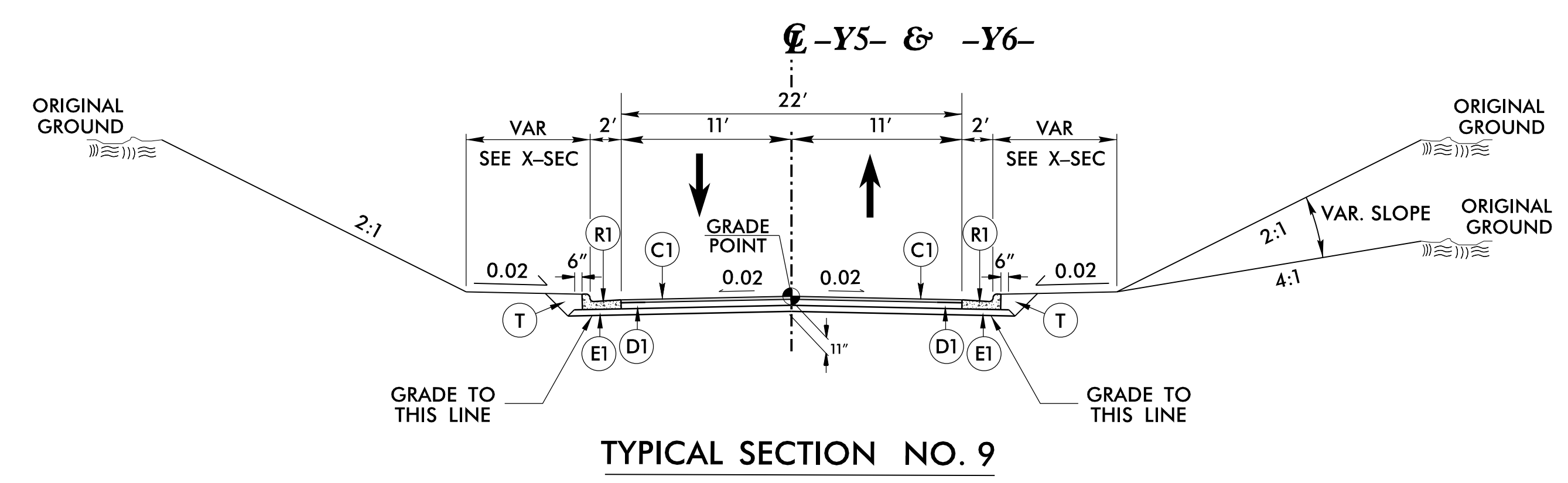
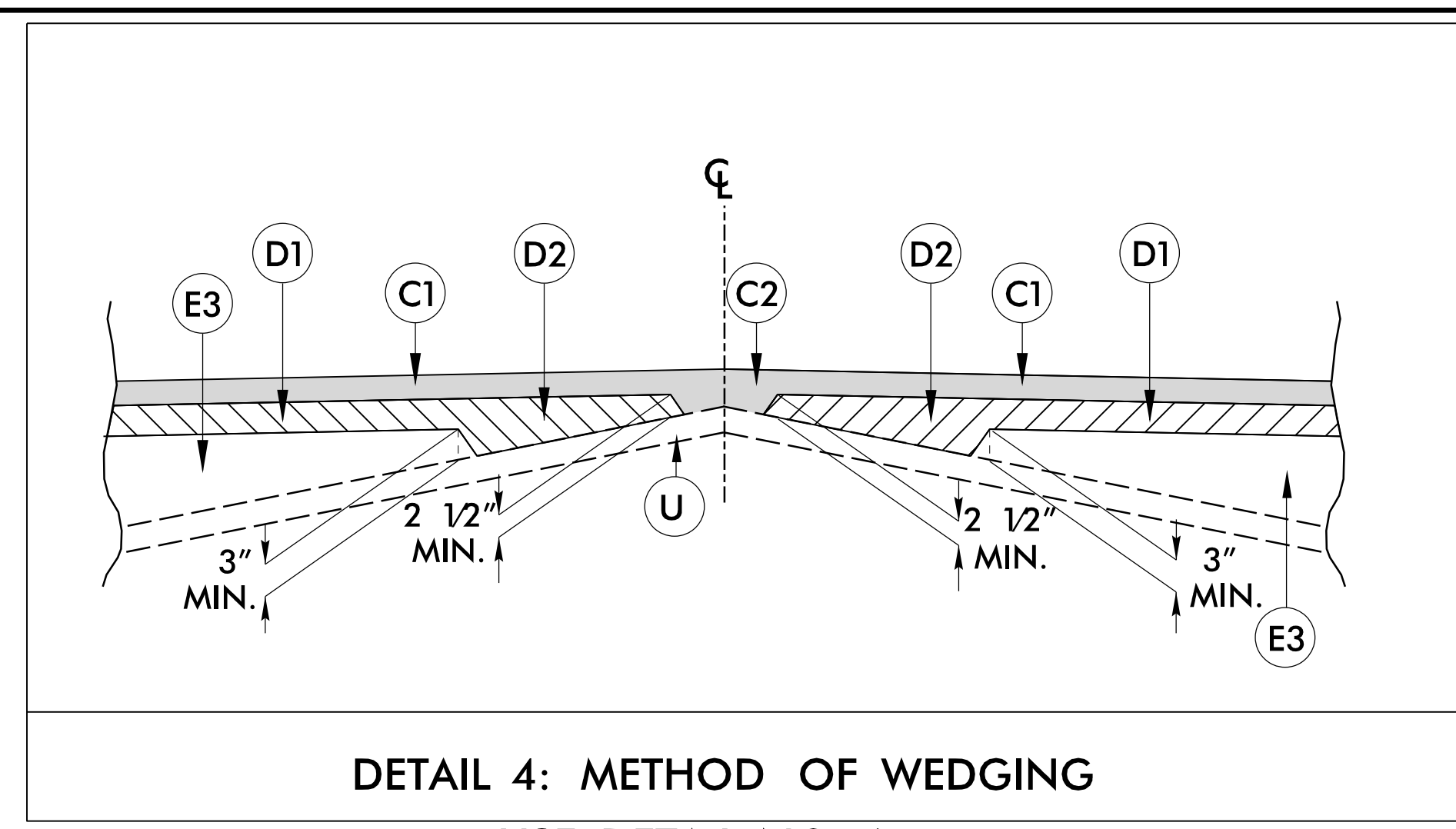
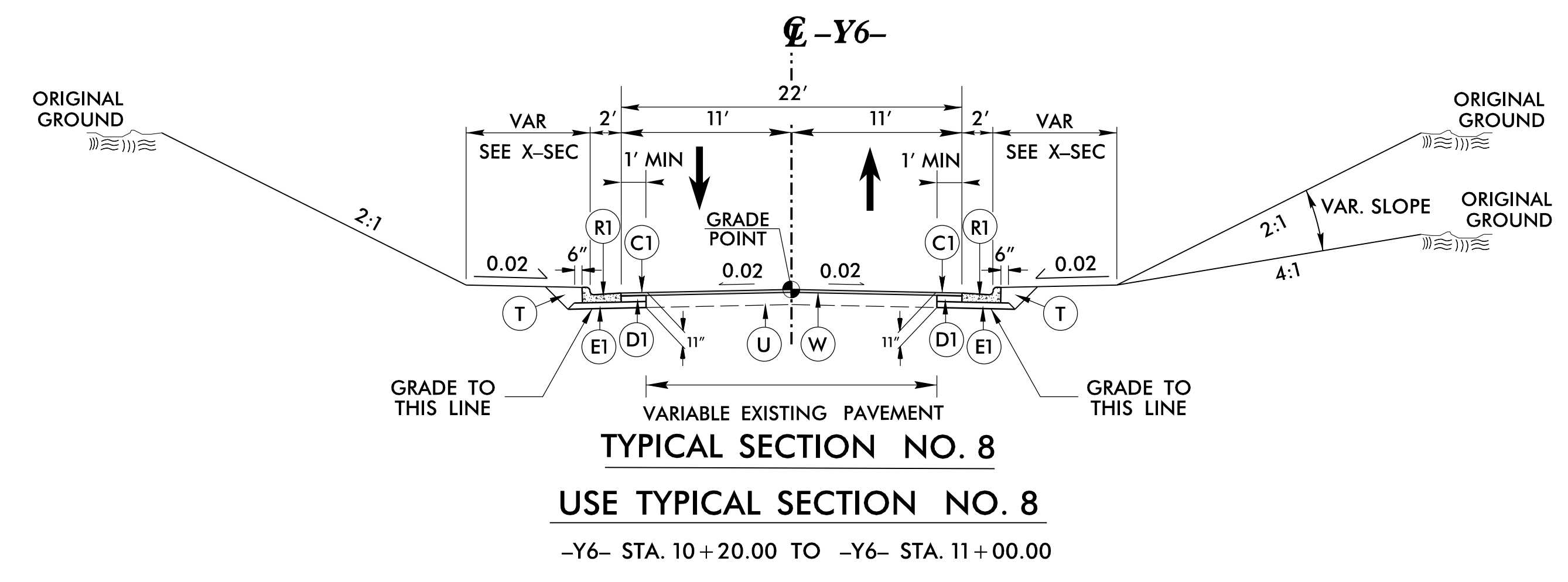
PAVEMENT DESIGN SCHEDULE

A1	7" CONCRETE TRUCK APRON
C1	3" S9.5C
C2	VAR. S9.5C
C3	2.5" S9.5B
D1	4" I19.0C
D2	VAR. I19.0C
E1	4" B25.0C
E2	5 1/2" B25.0C
E3	VAR. TYPE B25.0C
J1	8" ABC
J2	6" ABC
J3	10" ABC
P1	PRIME COAT
R1	2'-6" CURB & GUTTER
R2	1'-6" MOUNTABLE CURB & GUTTER
S	4" CONCRETE SIDEWALK
T	EARTH MATERIAL
U	EXISTING PAVEMENT
V	INCIDENTAL MILLING
W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE WEDGING DETAIL NO. 1)

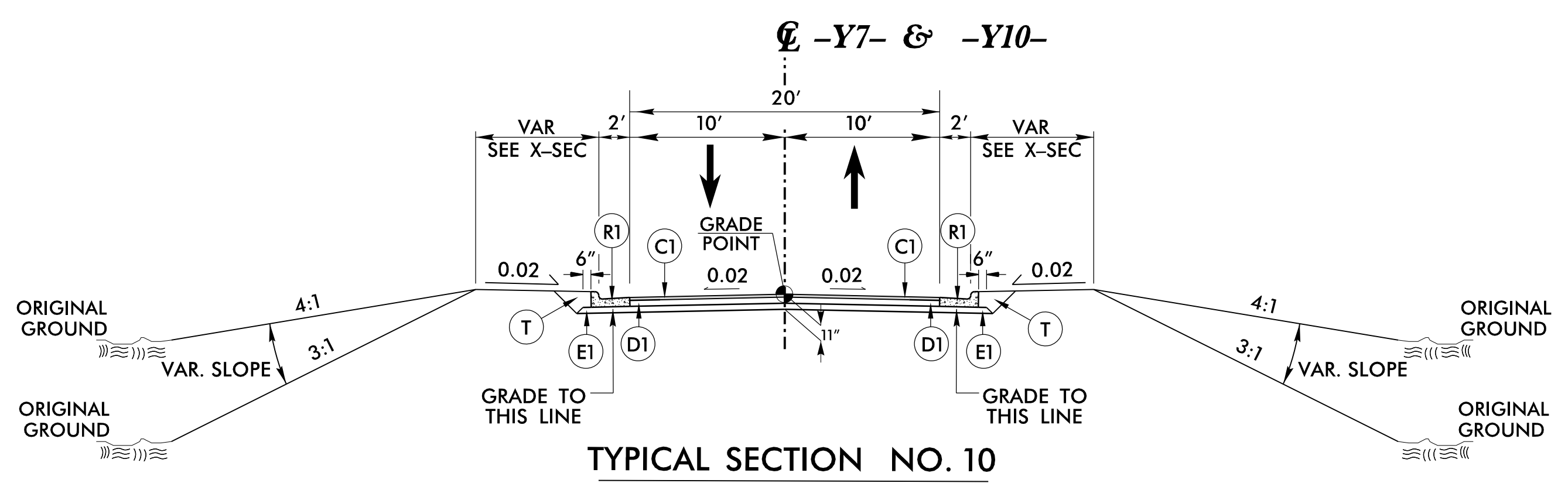
NOTE: PAVEMENT EDGE SLOPES ARE 1:1
UNLESS SHOWN OTHERWISE.

1:25/2024 PJ 64 Widening (U-5783)06 U-5783\Roadway\Proj\U5783_rdy_tjpr.dgn
 1:25/2024 PJ 64 Widening (U-5783)06 U-5783\Roadway\Proj\U5783_rdy_tjpr.dgn
 1:25/2024 PJ 64 Widening (U-5783)06 U-5783\Roadway\Proj\U5783_rdy_tjpr.dgn

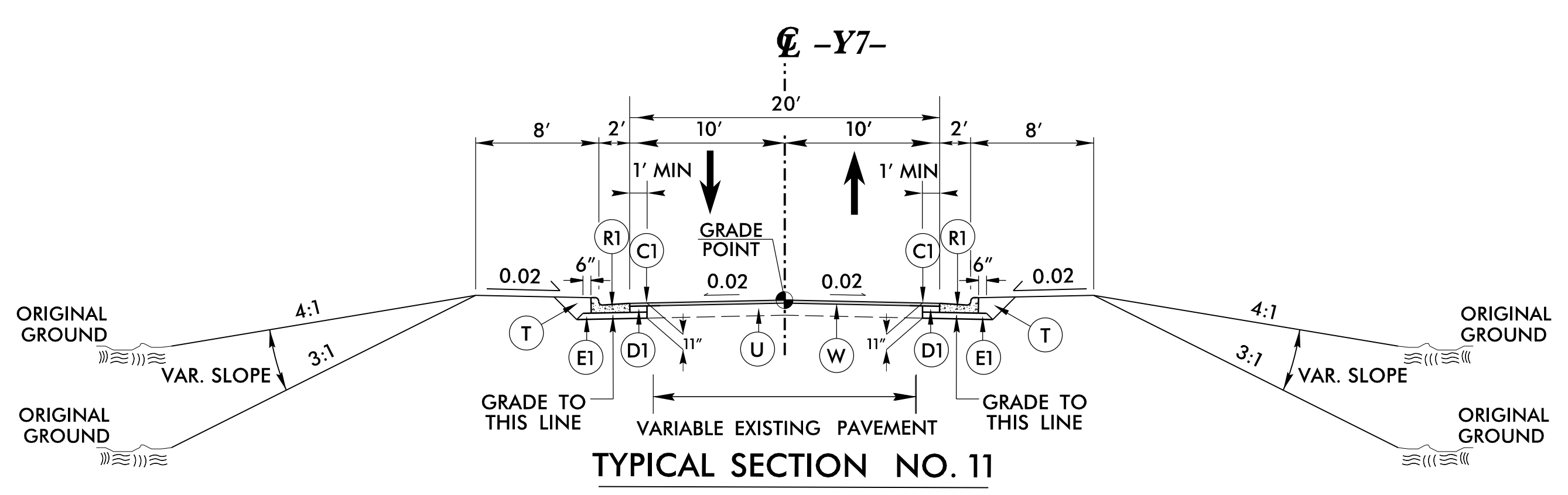
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USE TYPICAL SECTION NO. 9
-Y5- STA. 10+00.00 TO -Y5- STA. 12+32.30
-Y6- STA. 11+00.00 TO -Y6- STA. 11+86.77



USE TYPICAL SECTION NO. 10
-Y7- STA. 10+65.00 TO -Y7- STA. 12+20.00
-Y10- STA. 10+30.00 TO -Y10- STA. 11+27.12



USE TYPICAL SECTION NO. 11
-Y7- STA. 12+20.00 TO -Y7- STA. 12+90.00

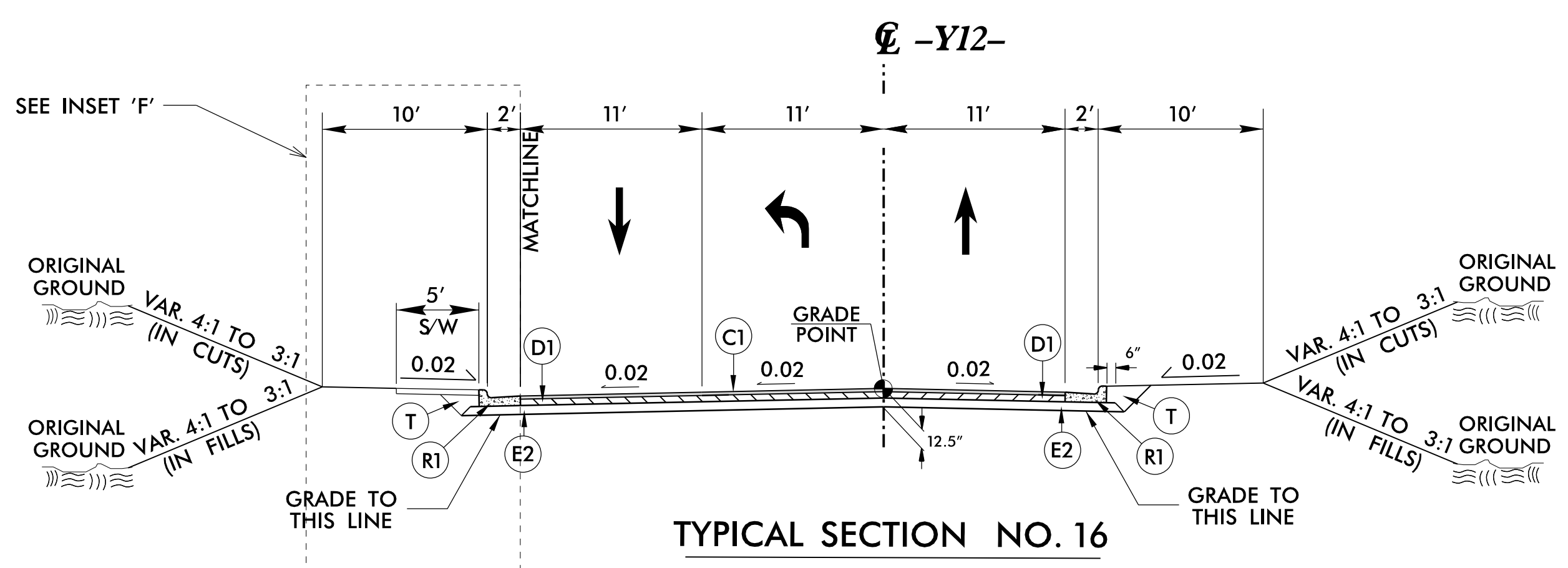
PAVEMENT DESIGN SCHEDULE

A1	7" CONCRETE TRUCK APRON
C1	3" S9.5C
C2	VAR. S9.5C
C3	2.5" S9.5B
D1	4" I19.0C
D2	VAR. I19.0C
E1	4" B25.0C
E2	5 1/2" B25.0C
E3	VAR. TYPE B25.0C
J1	8" ABC
J2	6" ABC
J3	10" ABC
P1	PRIME COAT
R1	2'-6" CURB & GUTTER
R2	1'-6" MOUNTABLE CURB & GUTTER
S	4" CONCRETE SIDEWALK
T	EARTH MATERIAL
U	EXISTING PAVEMENT
V	INCIDENTAL MILLING
W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE WEDGING DETAIL NO. 1)

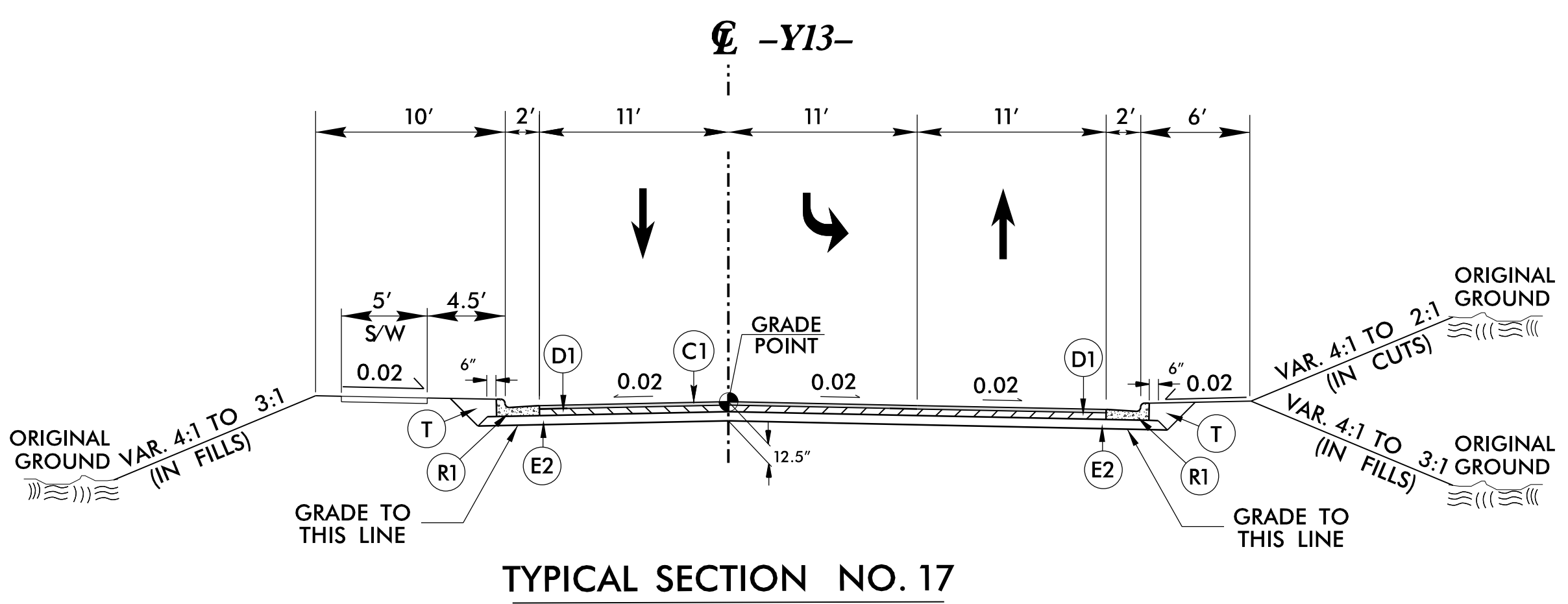
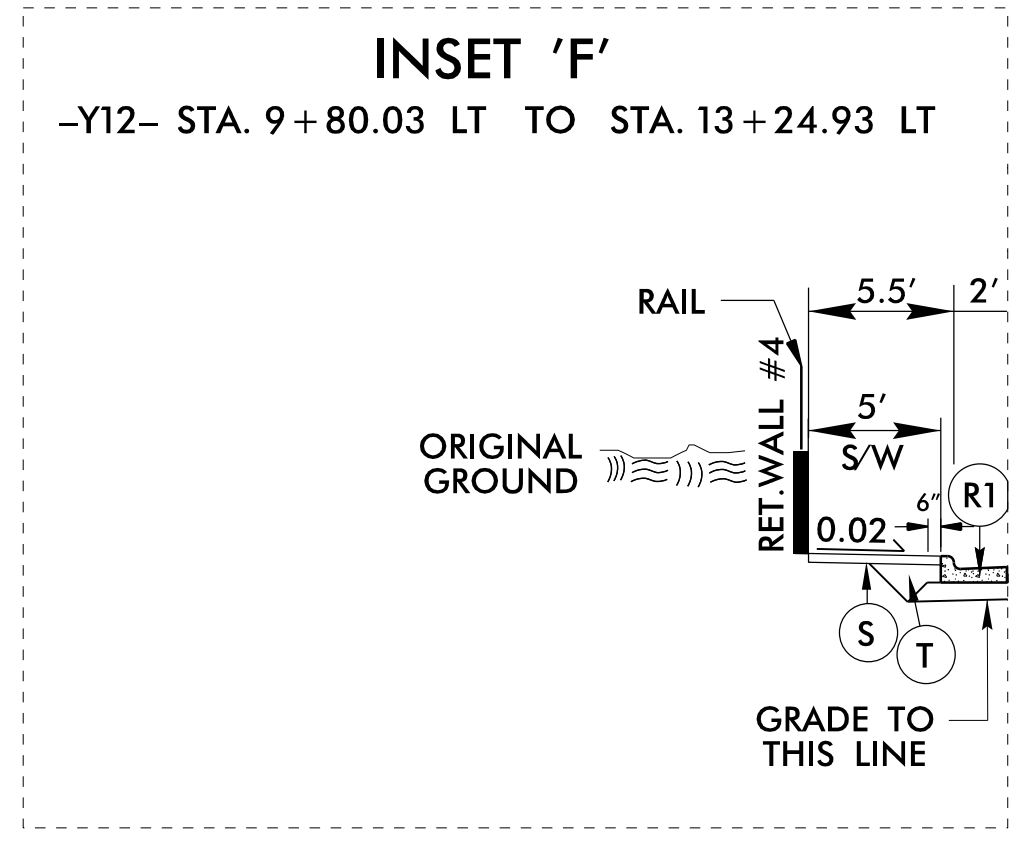
**NOTE: PAVEMENT EDGE SLOPES ARE 1:1
UNLESS SHOWN OTHERWISE.**

1:33:22 PM 64 Widening (U-5783)\06 U-5783\Roadway\Proj\U5783_rdy_tup.dgn
 11/15/2024 11:33:22 AM
 11/15/2024 11:33:22 AM
 11/15/2024 11:33:22 AM

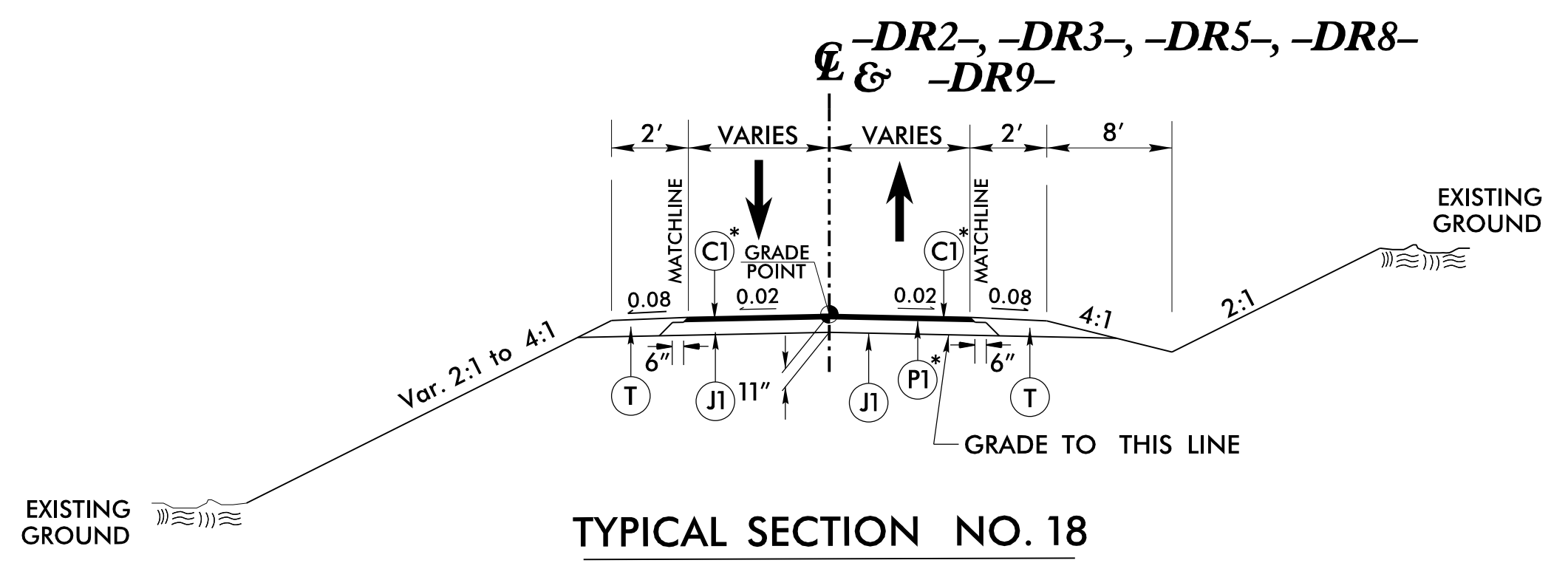
PROJECT REFERENCE NO. U-5783	SHEET NO. 2A-6
ROADWAY DESIGN ENGINEER 	PAVEMENT DESIGN ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



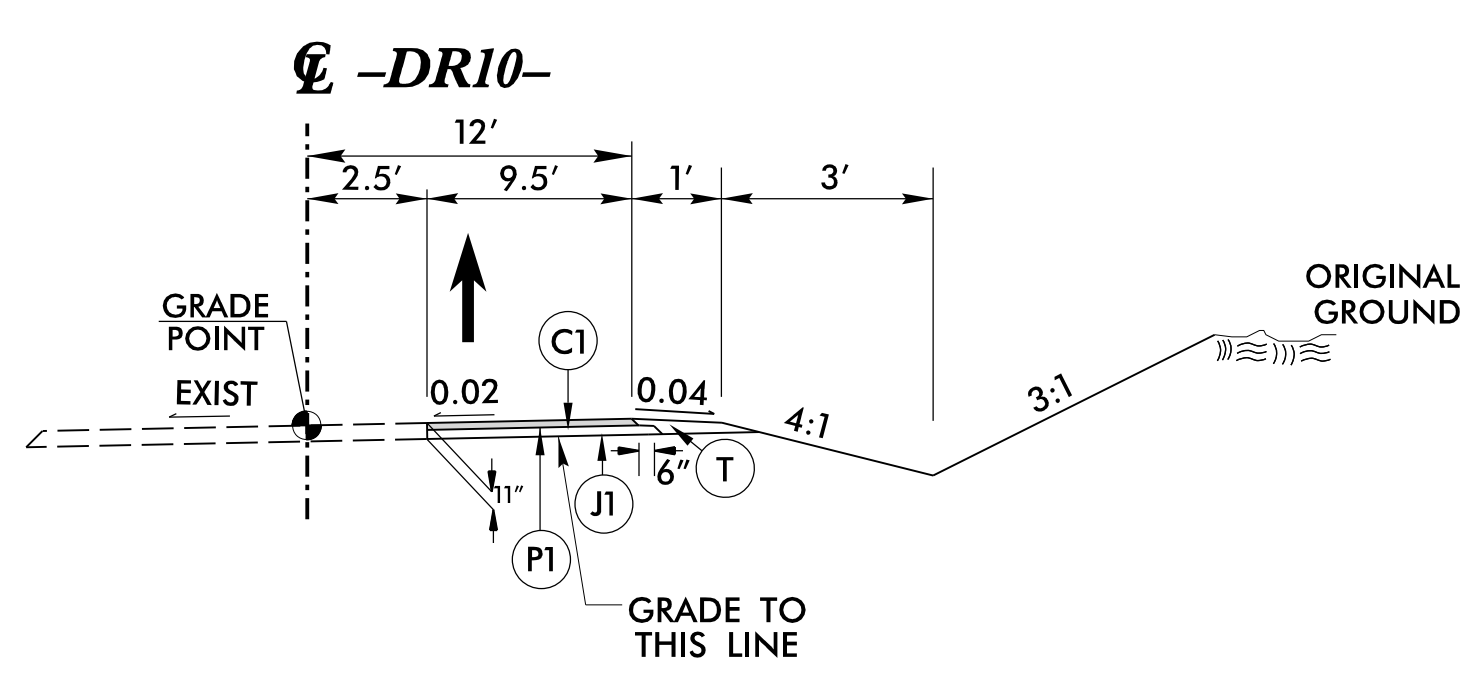
USE TYPICAL SECTION NO. 16
-Y12- STA. 9+00.00 TO -Y12- STA. 15+62.63



USE TYPICAL SECTION NO. 17
-Y13- STA. 10+37.76 TO -Y13- STA. 16+05.00



USE TYPICAL SECTION NO. 18
-DR2- STA. 10+37.26 TO -DR2- STA. 12+46.57
-DR3- STA. 10+27.09 TO -DR3- STA. 11+04.98
-DR5- STA. 13+50.00 TO -DR5- STA. 14+74.64
-DR8- STA. 10+30.00 TO -DR8- STA. 10+82.59
-DR9- STA. 10+65.00 TO -DR9- STA. 11+12.48
* -DR3- AND -DR5- INCLUDES C1 AND P1.
THE REMAINDER ARE GRAVEL DRIVES.



USE TYPICAL SECTION NO. 19
-DR10- STA. 10+10.00 TO -Y13- STA. 11+37.60

PAVEMENT DESIGN SCHEDULE

A1	7" CONCRETE TRUCK APRON
C1	3" S9.5C
C2	VAR. S9.5C
C3	2.5" S9.5B
D1	4" I19.0C
D2	VAR. I19.0C
E1	4" B25.0C
E2	5 1/2" B25.0C
E3	VAR. TYPE B25.0C
J1	8" ABC
J2	6" ABC
J3	10" ABC
P1	PRIME COAT
R1	2'-6" CURB & GUTTER
R2	1'-6" MOUNTABLE CURB & GUTTER
S	4" CONCRETE SIDEWALK
T	EARTH MATERIAL
U	EXISTING PAVEMENT
V	INCIDENTAL MILLING
W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE WEDGING DETAIL NO. 1)

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

3:34:21 PM 11/25/22 Us 64 Widening (U-5783)\06 U-5783\Roadway\Proj\U5783_rdy_tjpr.dgn
 11/25/22 11:34:21 AM 11/25/22 Us 64 Widening (U-5783)\06 U-5783\Roadway\Proj\U5783_rdy_tjpr.dgn
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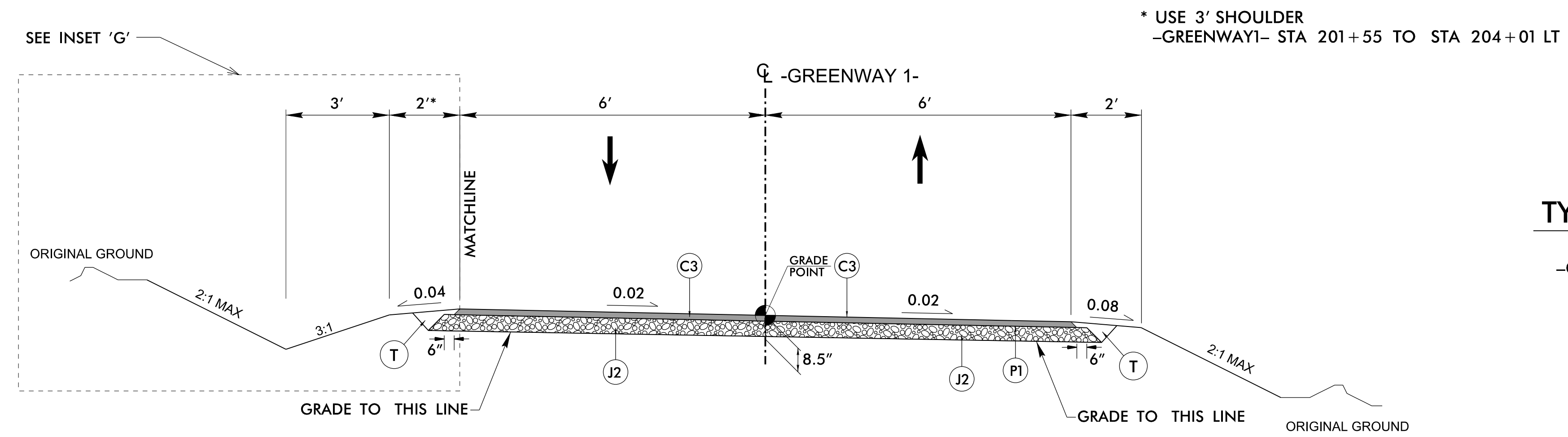
6/2/2019

PAVEMENT DESIGN SCHEDULE

A1	7" CONCRETE TRUCK APRON
C1	3" S9.5C
C2	VAR. S9.5C
C3	2.5" S9.5B
D1	4" I19.0C
D2	VAR. I19.0C
E1	4" B25.0C
E2	5 1/2" B25.0C
E3	VAR. TYPE B25.0C
J1	8" ABC
J2	6" ABC
J3	10" ABC
P1	PRIME COAT
R1	2'-6" CURB & GUTTER
R2	1'-6" MOUNTABLE CURB & GUTTER
S	4" CONCRETE SIDEWALK
T	EARTH MATERIAL
U	EXISTING PAVEMENT
V	INCIDENTAL MILLING
W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE WEDGING DETAIL NO. 1)

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

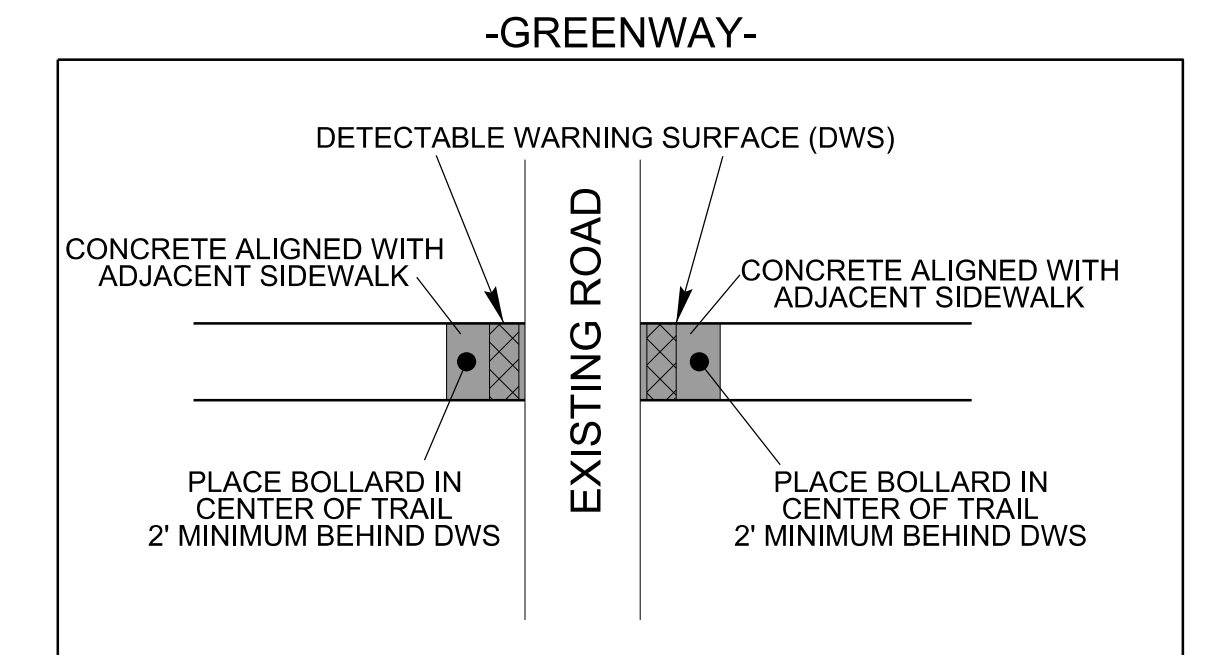
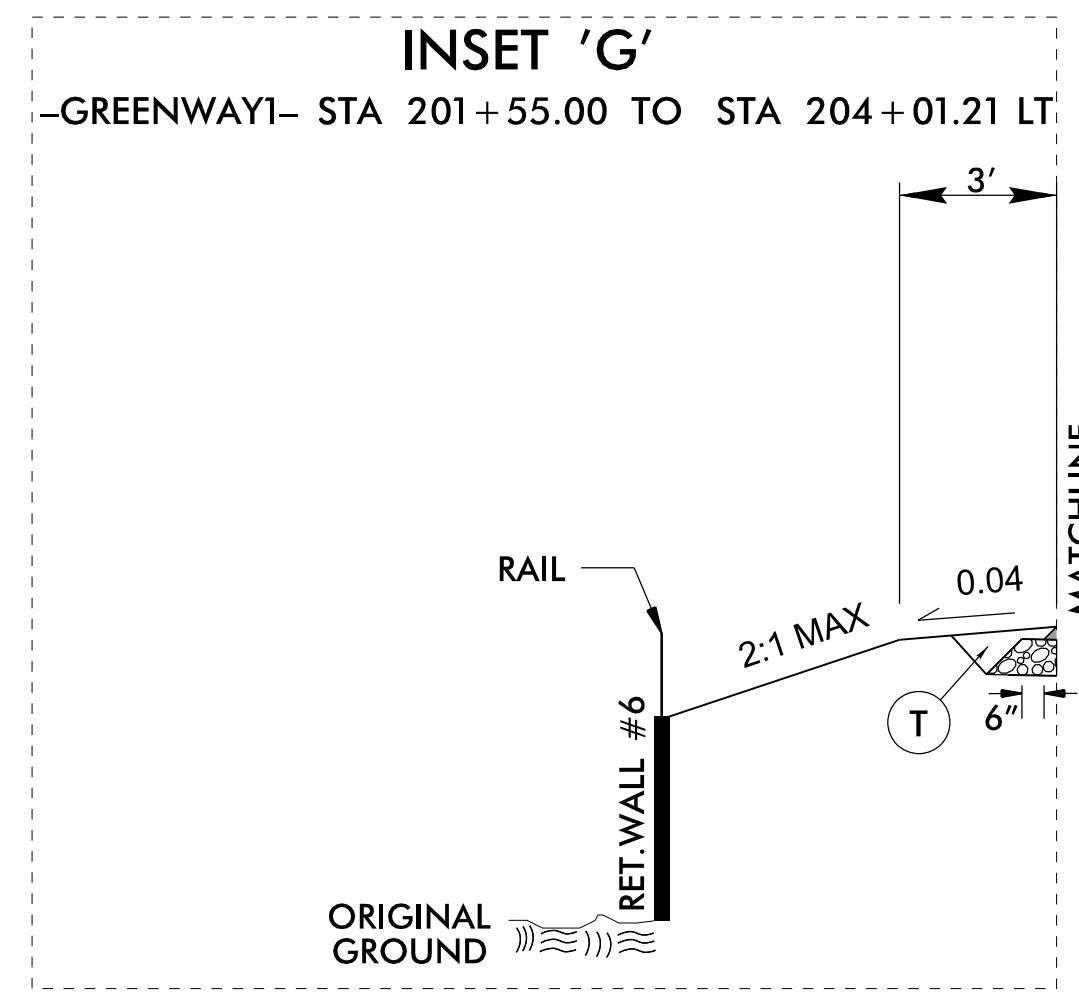
PROJECT REFERENCE NO. U-5783	SHEET NO. 2A-7
ROADWAY DESIGN ENGINEER 	PAVEMENT DESIGN ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



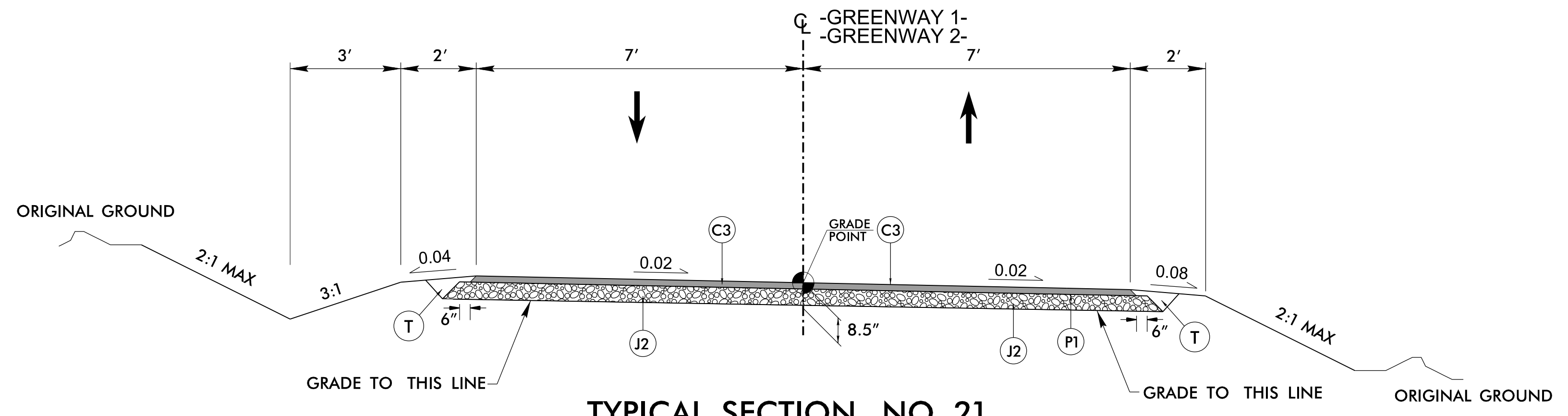
TYPICAL SECTION NO. 20

TYPICAL SECTION NO. 20

-GREENWAY 1- STA. 201+55.00 TO
-GREENWAY 1- STA. 204+05.74 (-Y2-)



BOLLARD PLACEMENT AT ROAD CROSSINGS



TYPICAL SECTION NO. 21

TYPICAL SECTION NO. 21

-GREENWAY 1- STA. 204+78.56 (-Y2-) TO
-GREENWAY 1- STA. 206+00.00

-GREENWAY 2- STA. 212+65.00 TO
-GREENWAY 2- STA. 213+96.23 (-Y3-)

-GREENWAY 2- STA. 214+73.39 (-Y3-) TO
-GREENWAY 2- STA. 217+20.00

F:\2025\Projects\64 Widening (U-5783)\06 U-5783\Roadway\Proj\U5783_rdy_tjpr.dgn
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8.17.79.99

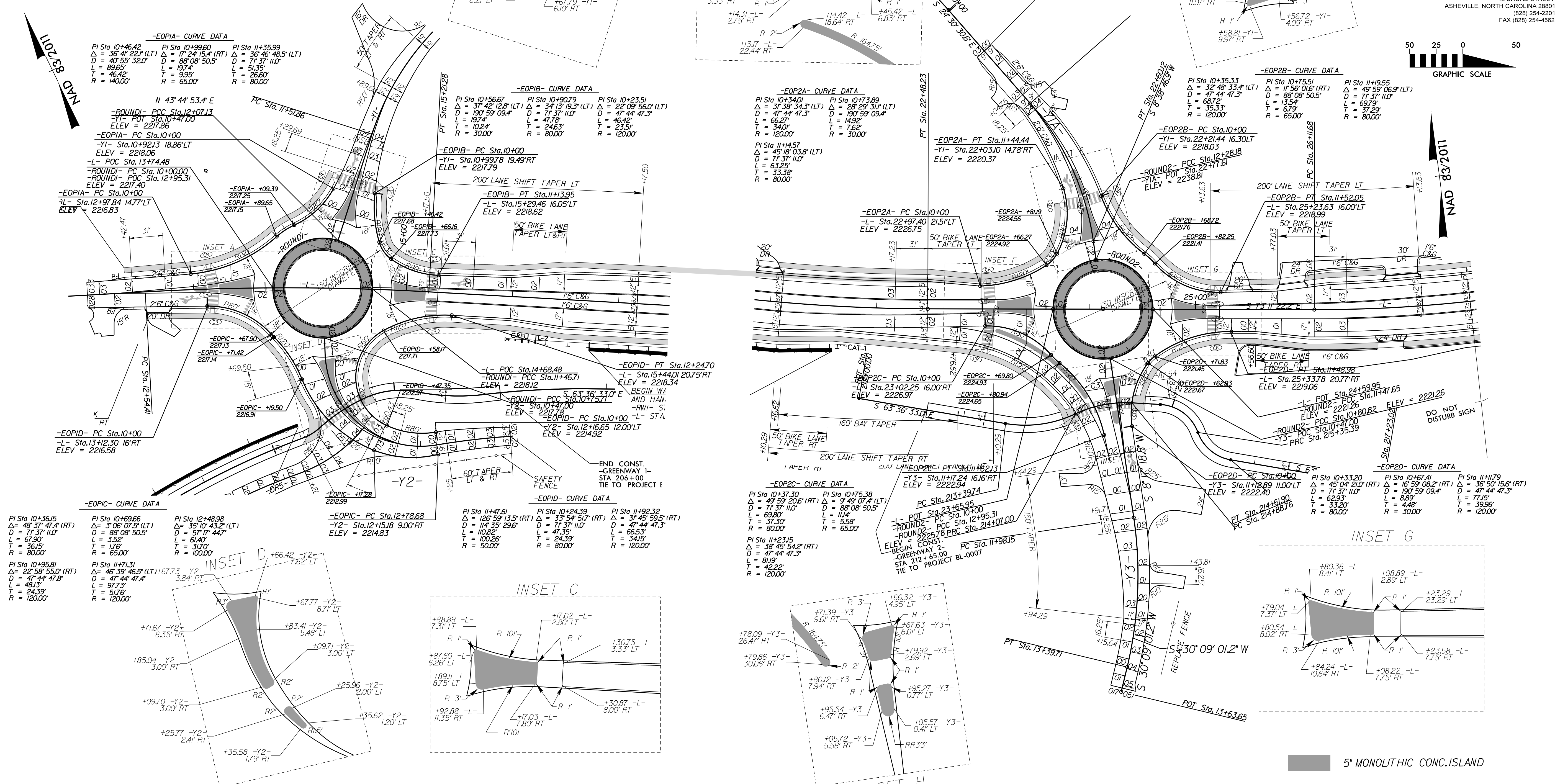
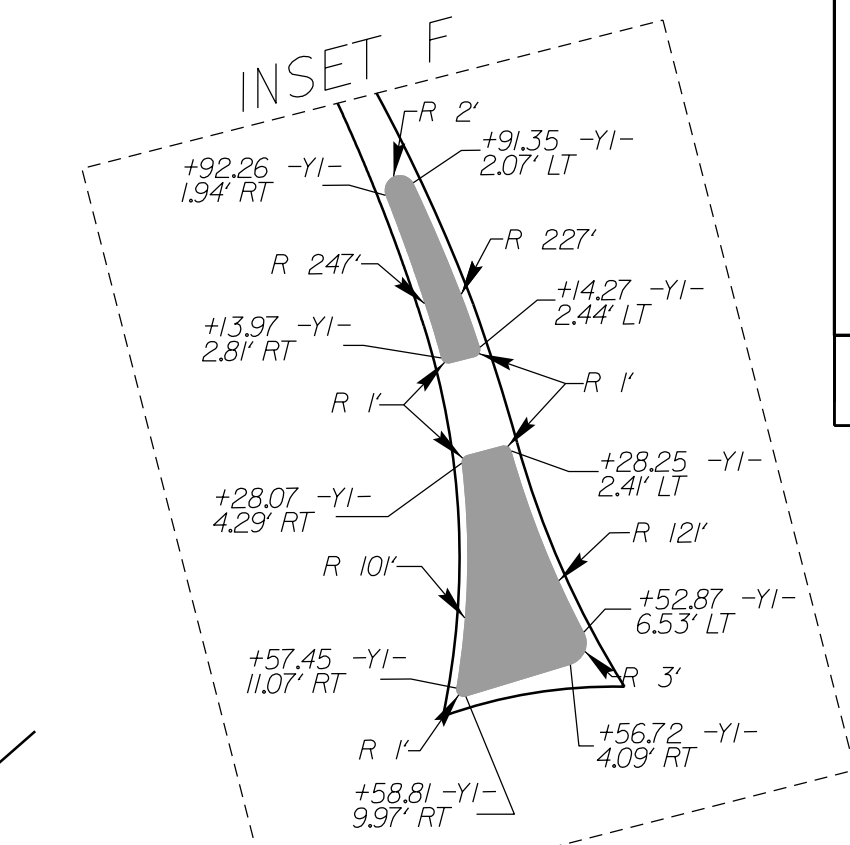
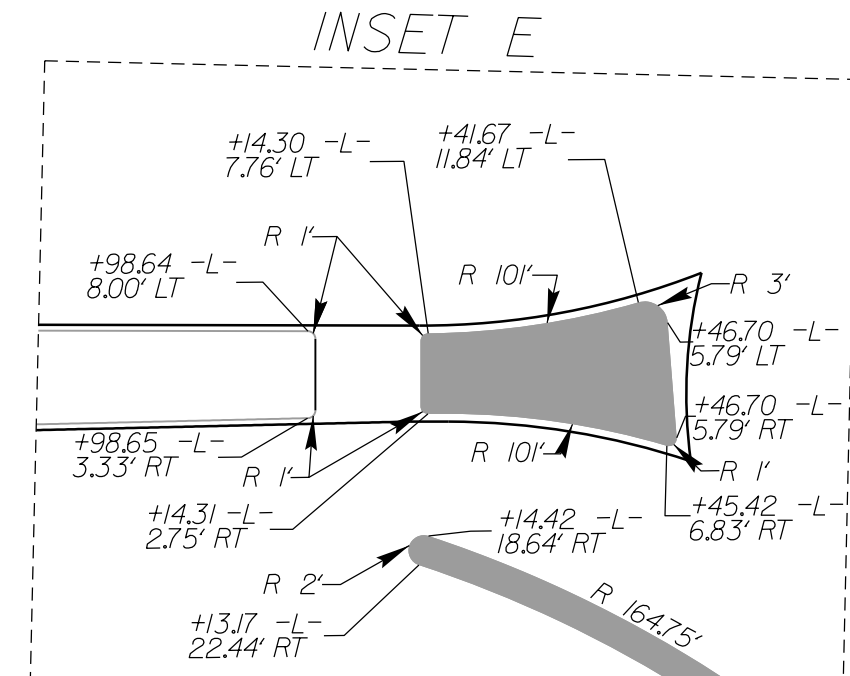
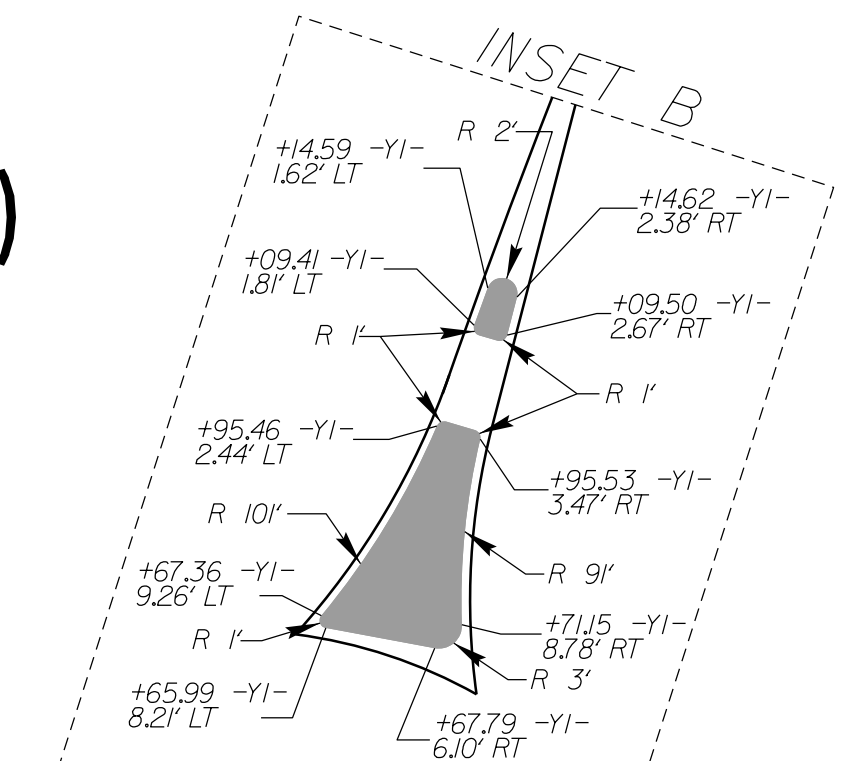
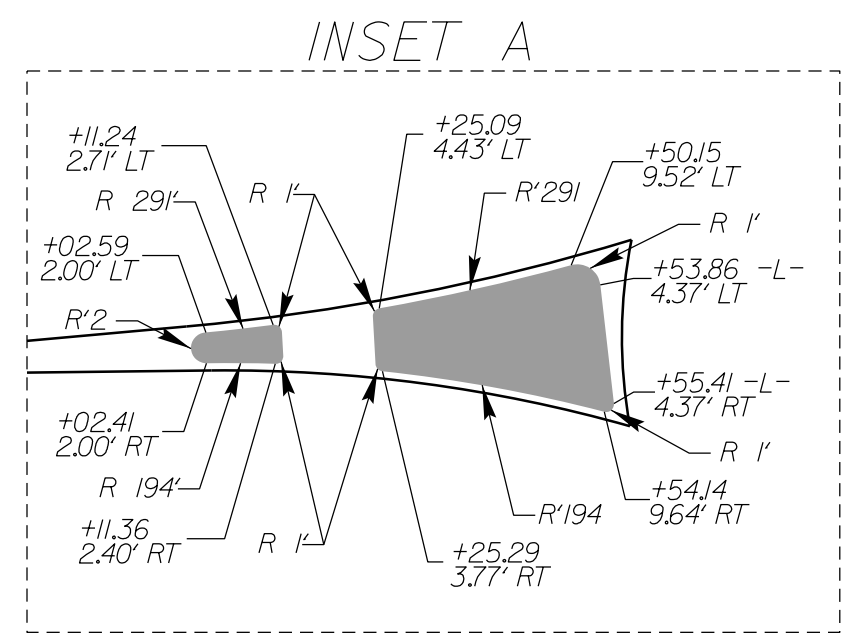
INTERSECTION DETAILS

US 64 (-L-)

US 64 (-L-)

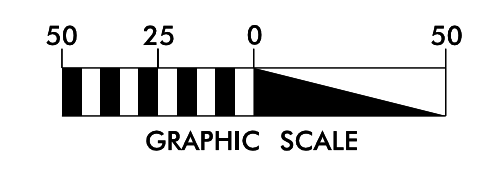
US 64 (-L-) -Y1- -Y2-

-Y1- -Y3-



PROJECT REFERENCE NO. U-5783		SHEET NO. 2B-1	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		NORTH CAROLINA PROFESSIONAL SEAL 030453 MATT MATTEN 8/10/2024	
NORTH CAROLINA PROFESSIONAL SEAL 030453 MATT MATTEN 8/10/2024		NORTH CAROLINA PROFESSIONAL SEAL 030453 MATT MATTEN 8/10/2024	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

Matten & Craig
ENGINEERS • SURVEYORS
FIRM LICENSE NO. C-1154
12 BROAD STREET
ASHEVILLE, NORTH CAROLINA 28801
(828) 254-2201
FAX (828) 254-4562



SEE SHEET 4 FOR PLAN VIEW

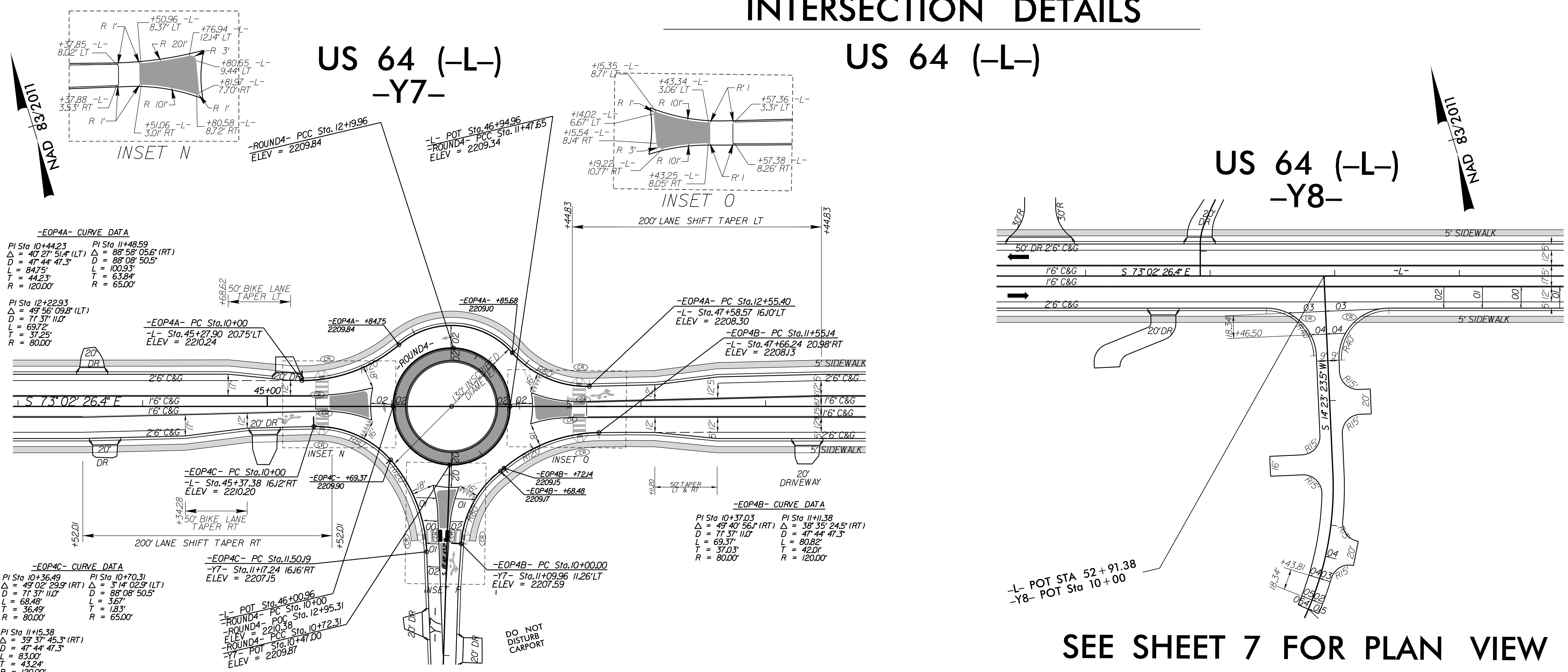
SEE SHEETS 4 & 5 FOR PLAN VIEW
SEE PAVEMENT MARKING PLANS FOR CURB RAMP AND PAVEMENT MARKING LOCATIONS

- 5" MONOLITHIC CONC. ISLAND
- 4" CONC. SIDEWALK

8.17.23

INTERSECTION DETAILS

PROJECT REFERENCE NO. U-5783	SHEET NO. 2B-3
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



-EOP4A- CURVE DATA

PI Sta 10+44.23	PI Sta 11+48.59
$\Delta = 43^\circ 27' 51.4''$ (LT)	$\Delta = 88^\circ 58' 05.6''$ (RT)
D = 47' 44.47.3"	L = 100.93'
T = 84.75'	T = 63.64'
R = 44.23'	R = 65.00'
R = 120.00'	

-EOP4C- CURVE DATA

PI Sta 10+36.49	PI Sta 10+70.31
$\Delta = 49^\circ 02' 29.9''$ (RT)	$\Delta = 3^\circ 14' 02.9''$ (LT)
D = 71' 37.11.0"	D = 88' 08' 50.5"
L = 68.48'	L = 3.67'
T = 36.49'	T = 1.83'
R = 80.00'	R = 65.00'

-EOP4B- CURVE DATA

PI Sta 10+37.03	PI Sta 11+11.38
$\Delta = 49^\circ 40' 56.1''$ (RT)	$\Delta = 38^\circ 35' 24.5''$ (RT)
D = 71' 37.11.0"	D = 47' 44.47.3"
L = 69.37'	L = 80.82'
T = 37.03'	T = 42.01'
R = 80.00'	R = 120.00'

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50 25 0 50
GRAPHIC SCALE

- 5" MONOLITHIC CONC. ISLAND
- 4" CONC. SIDEWALK

SEE PAVEMENT MARKING PLANS FOR CURB RAMP AND PAVEMENT MARKING LOCATIONS

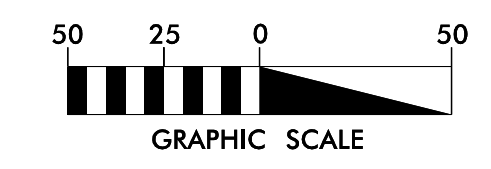
8.17.19

INTERSECTION DETAILS

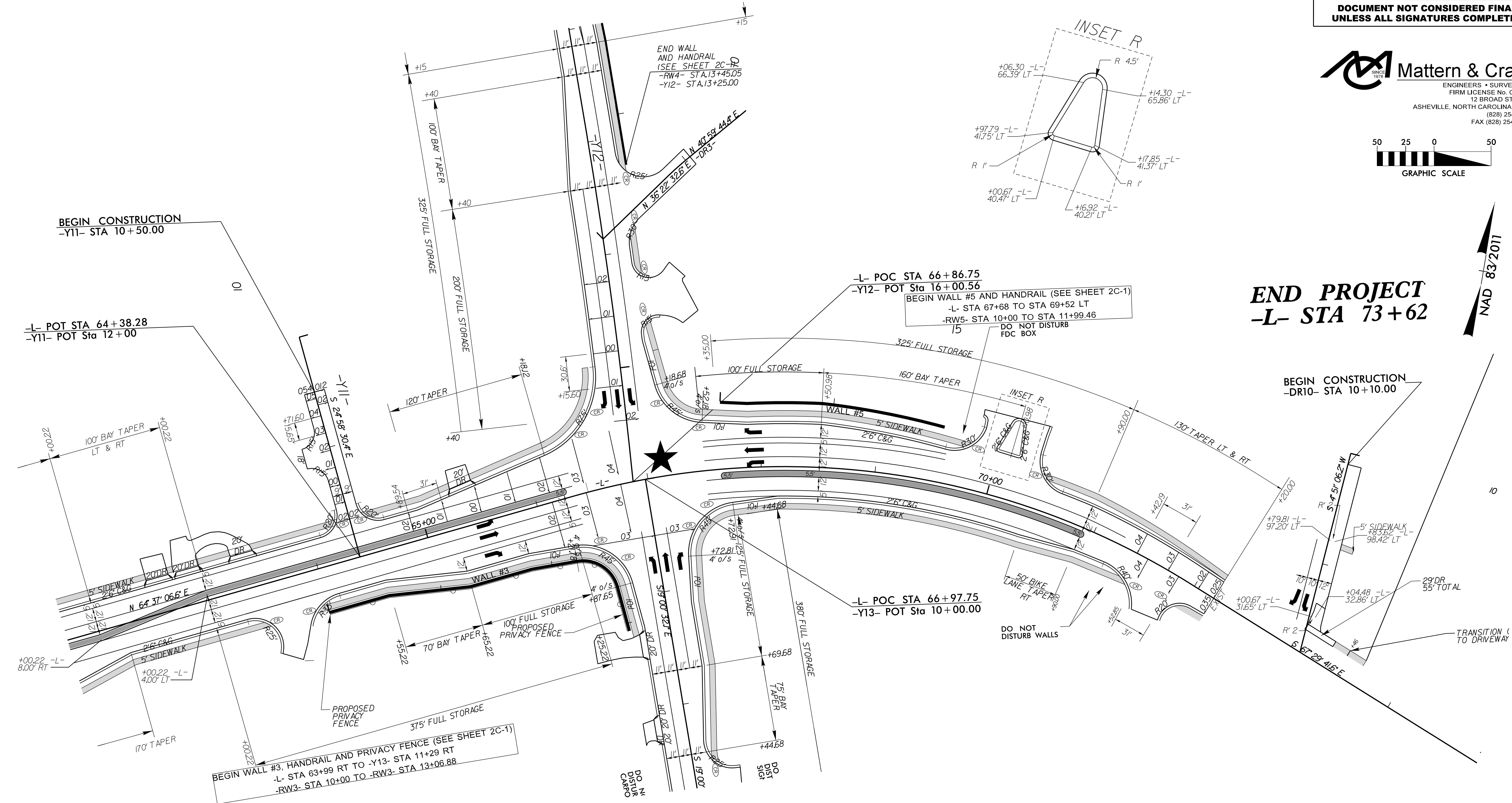
US 64 (-L-) -Y12- -Y13-

PROJECT REFERENCE NO. U-5783	SHEET NO. 2B-4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

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FIRM LICENSE No. C-1154
12 BROAD STREET
ASHEVILLE, NORTH CAROLINA 28801
(828) 254-2201
FAX (828) 254-4562



NAD 83/2011

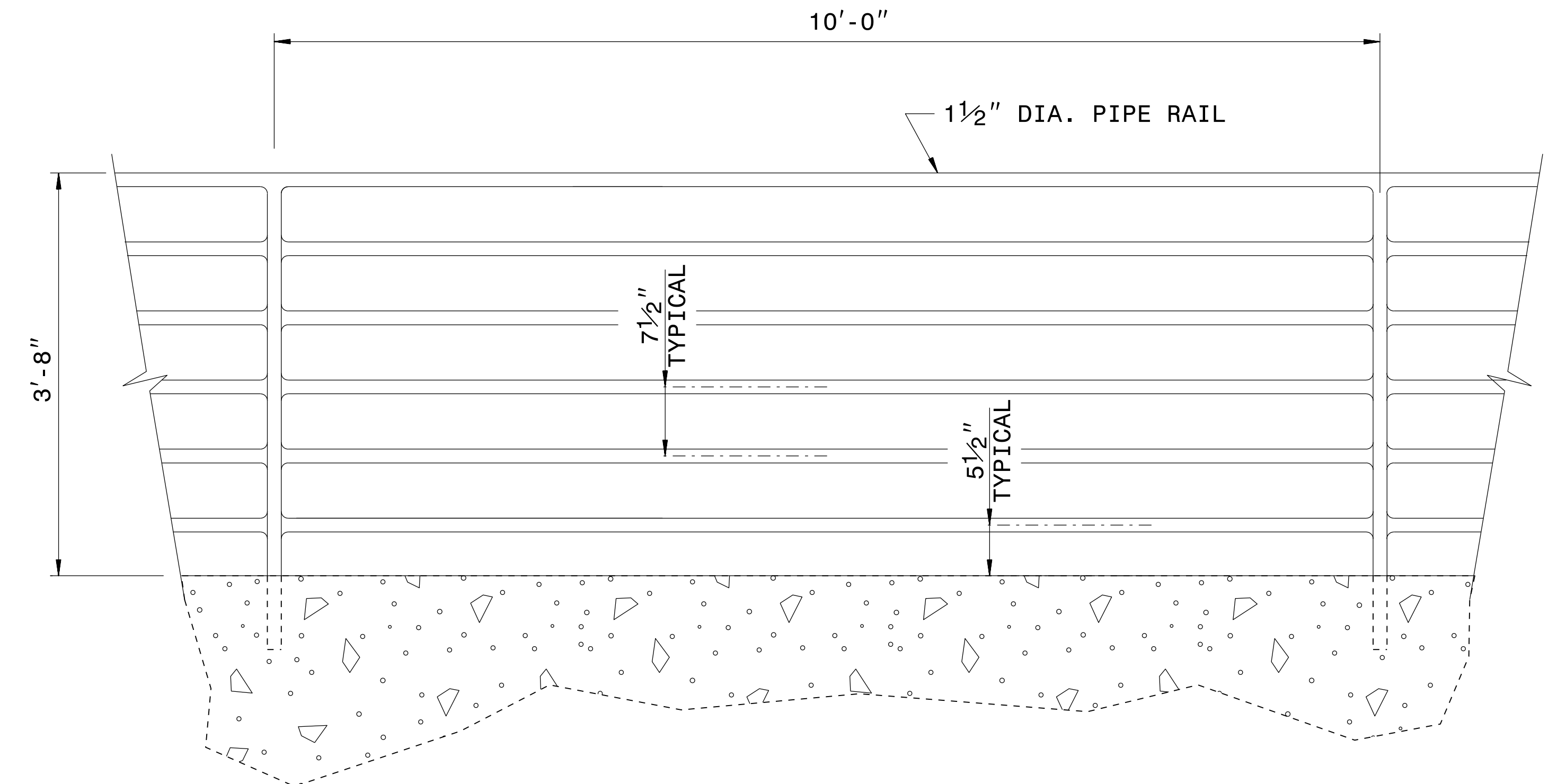


END PROJECT -L- STA 73+62

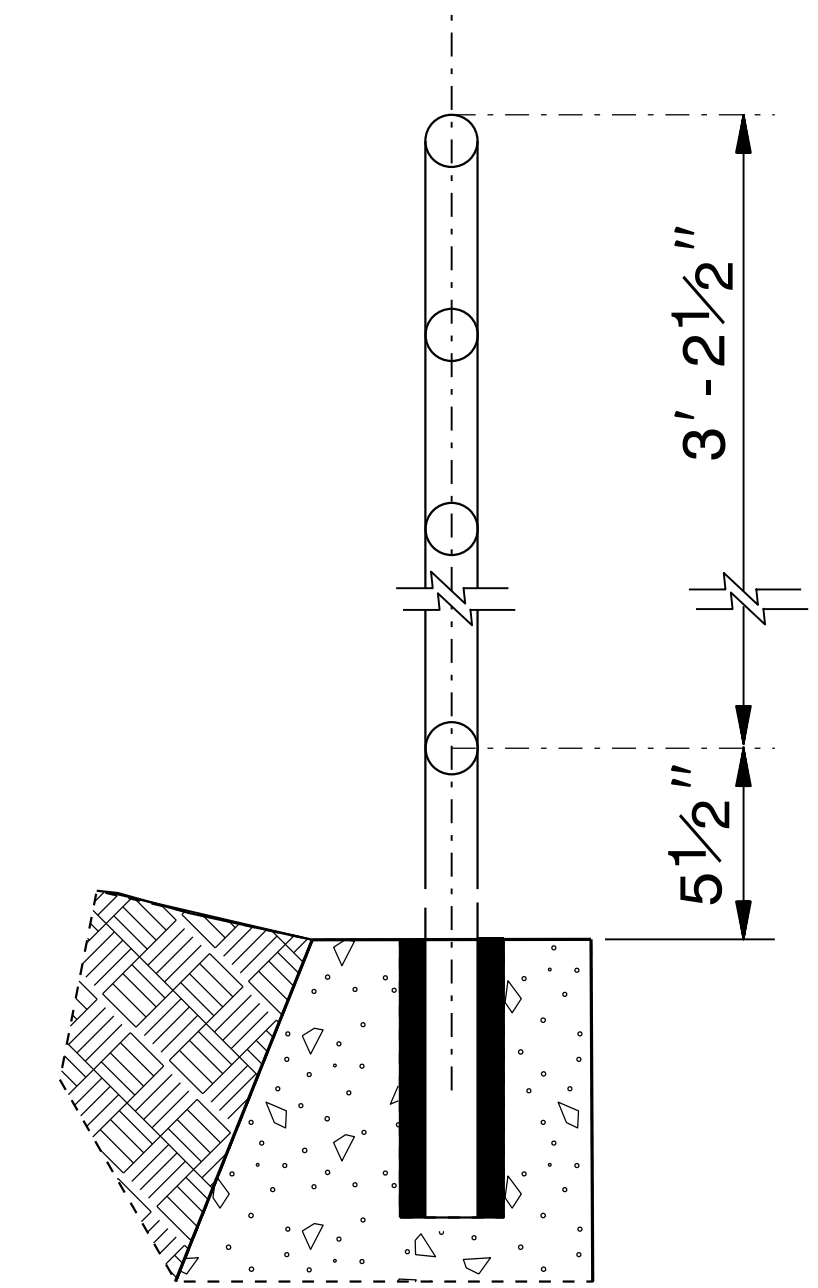
SEE SHEET 8 FOR PLAN VIEW

- 5" MONOLITHIC CONC. ISLAND
- 4" CONC. SIDEWALK

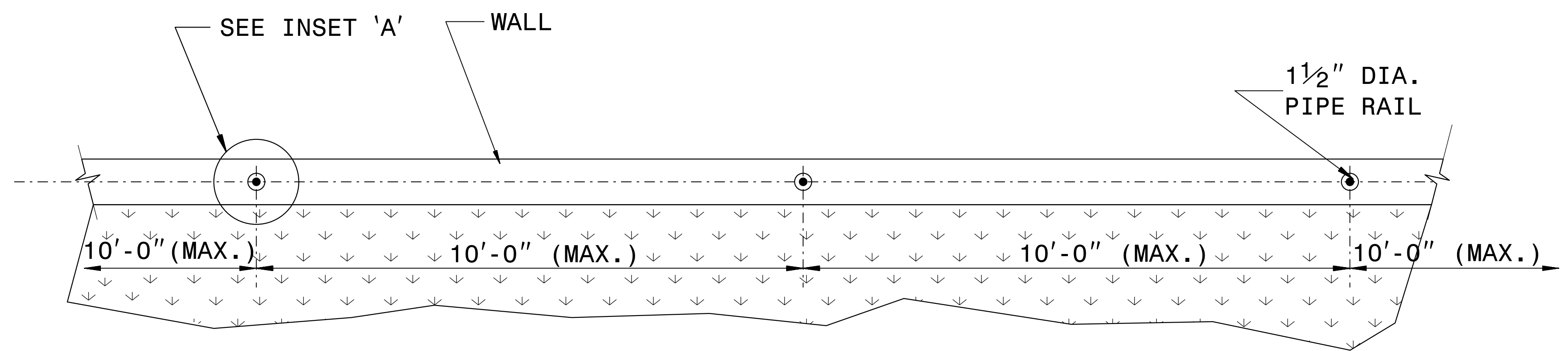
SEE PAVEMENT MARKING PLANS FOR CURB RAMP AND PAVEMENT MARKING LOCATIONS



ELEVATION OF HANDRAIL



INSET 'A'



PLAN VIEW

NOTES:

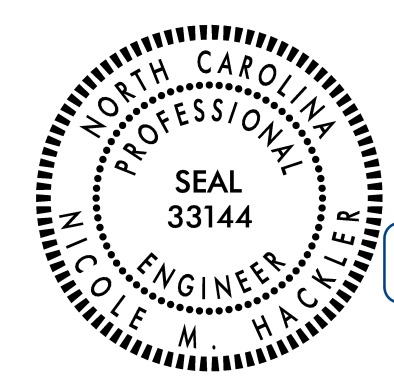
CONSTRUCT PROPOSED STEEL PIPE RAIL 1 1/2" DIAMETER SCHEDULE 40 PLAIN END GALVANIZED STEEL PIPE MEETING THE REQUIREMENTS OF ASTM A53.

PAINT, IF REQUIRED BY THE ENGINEER, IN ACCORDANCE WITH SECTION 1080 OF THE STANDARD SPECIFICATIONS.

WELD IN ACCORDANCE WITH ARTICLE 1072-18 OF THE STANDARD SPECIFICATIONS.

SUBMIT THE ATTACHMENT OF THE HANDRAIL TO THE RETAINING WALL TO THE CONTRACTS AND STANDARDS OFFICE FOR APPROVAL.

I4-MAR-2019 10:43 S:\Contracts\Special Details\Howerton\Handrail on Retaining Wall.dgn Jhowerton AT USD-292595



DocuSigned by: Nicole M. Hickler 588432034164CS

5/30/2024

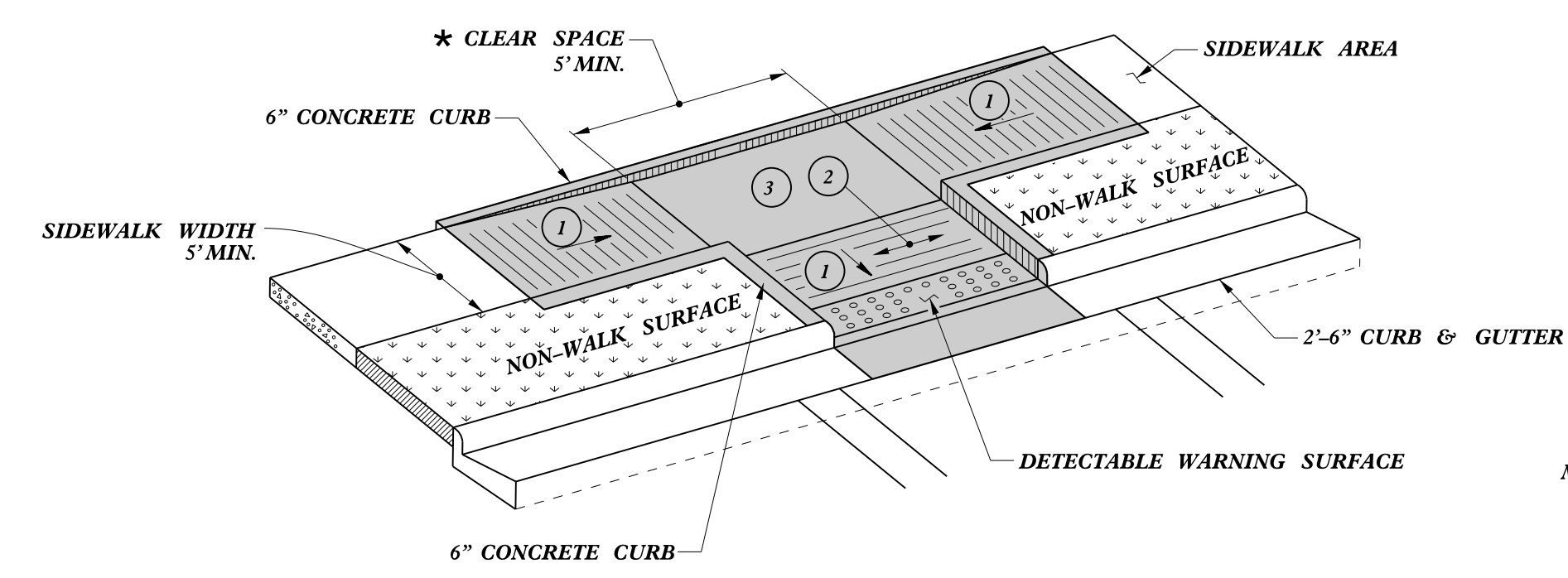
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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

DETAIL OF PIPE HANDRAIL MOUNTED ON A WALL

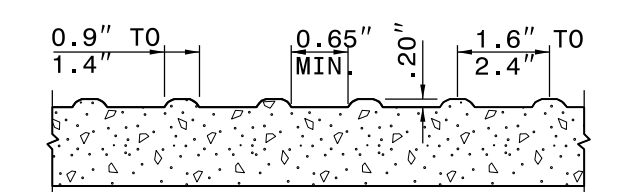
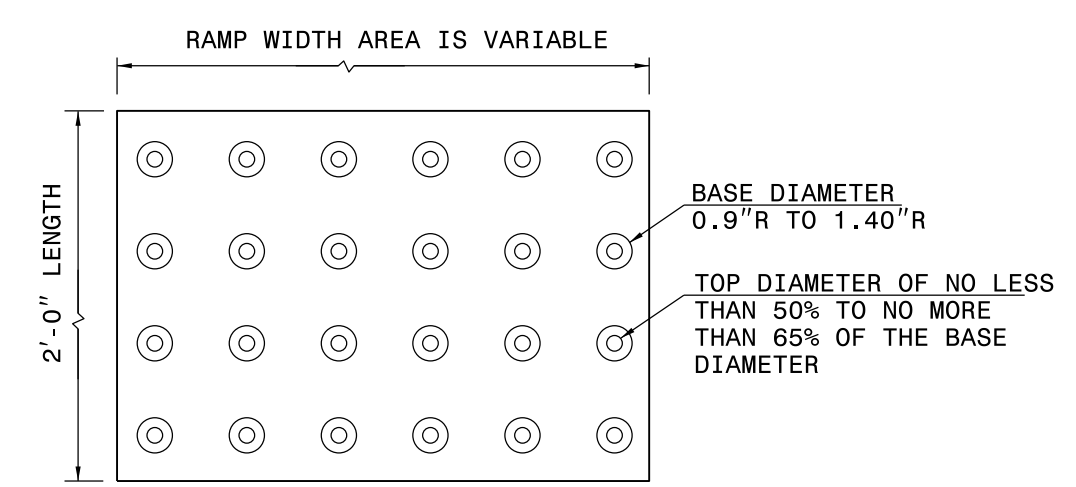
ORIGINAL BY: E.E. WARD	DATE: 12-99
MODIFIED BY:	DATE:
CHECKED BY:	DATE:
FILE SPEC.: jhowerton/handrail_on_retaining_wall.dgn	

* - WHERE CLEAR SPACE IS CONSTRAINED ON TWO OR MORE SIDES, THE CLEAR SPACE SHALL BE 4' MINIMUM X 5' MINIMUM, WITH 5' PROVIDED IN THE DIRECTION OF THE PEDESTRIAN STREET CROSSING.

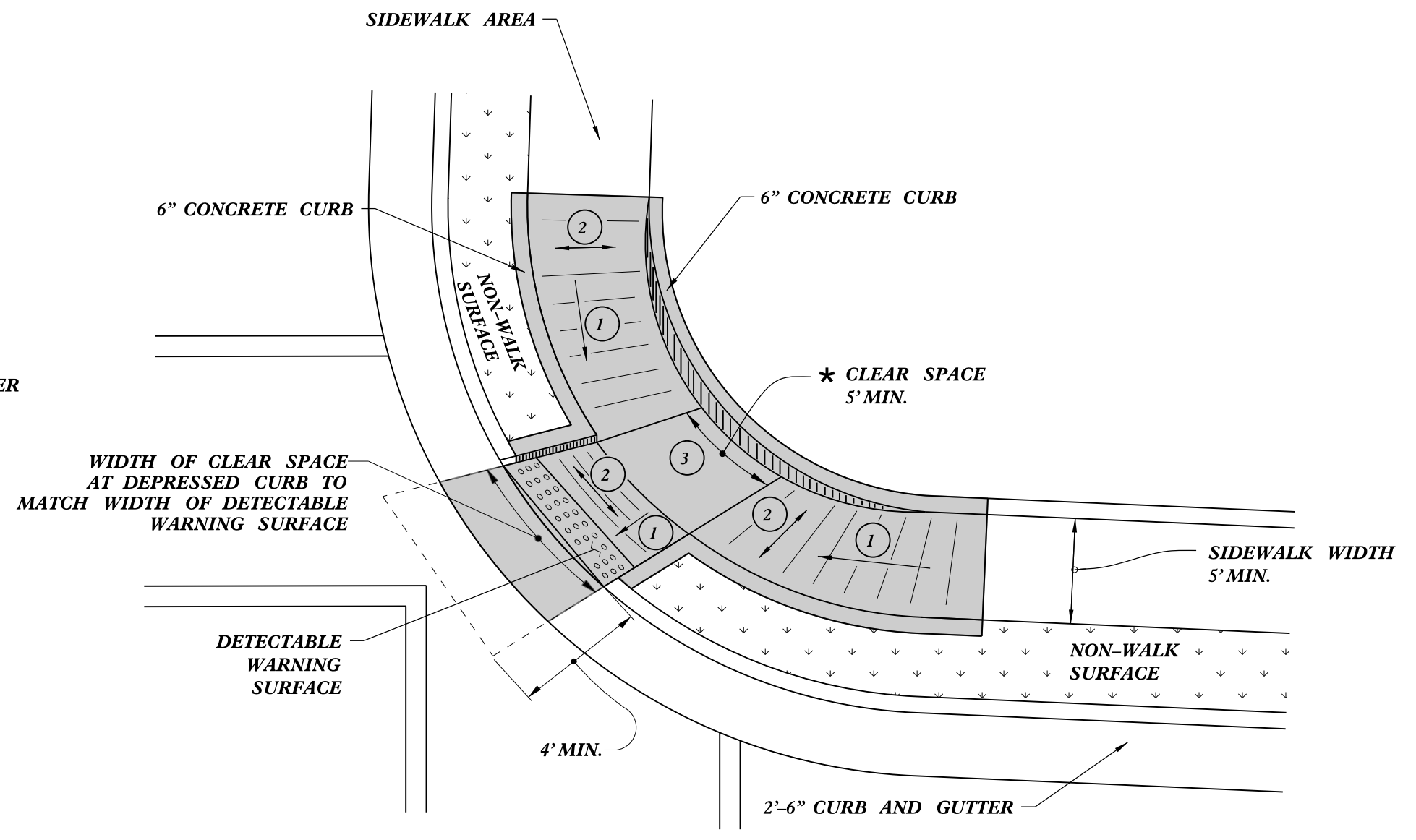


TYPE 3

NOTES:
 DETECTABLE WARNING SURFACE SHALL COVER 2'-0" LENGTH AND FULL WIDTH OF THE RAMP FLOOR AS SHOWN ON THE DETAILS.
 DETECTABLE WARNING SURFACE SHALL CONTRAST VISIBLY WITH ADJOINING SURFACE, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT SEQUENCE COVERING THE ENTIRE RAMP.



DETECTABLE WARNING SURFACE



**TYPE 3 MODIFIED
 INSTALLATION IN A RADIUS**

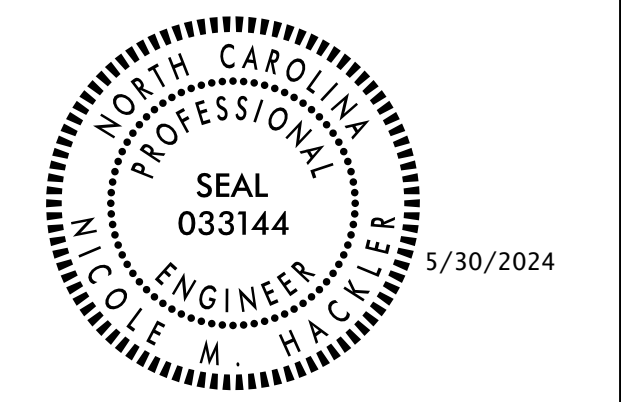
- 1 8.33% (12:1) MAX RAMP SLOPE
- 2 CROSS SLOPE: 2.00%
- 3 MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00%

PAY LIMITS FOR 1 CURB RAMP

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

ROADWAY DETAIL DRAWING FOR
CURB RAMP
 PARALLEL RAMP

SHEET 9 OF 13
848D06



DocuSigned by:
 Nicole M. Hickler
 5884323D34164C5

DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED

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

SEE TITLE BLOCK

ORIGINAL BY: S.CALHOUN DATE: 12-22-2023
 MODIFIED BY: DATE: _____
 CHECKED BY: DATE: _____
 FILE SPEC.: special_details\nmhackler\0609.dgn

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

SUMMARY OF EARTHWORK

Station	Station	Uncl. Excav. +%	Embank. +%	Borrow	Waste
-L- STA 12+00	-L- STA 14+21.48	204	359	155	
-Y1- STA 10+65.00	-Y1- STA 16+80.00	1,848	331		1,517
-Y2- STA 10+65.00	-Y2- STA 12+85.00	32	1,964	1,932	
-DR5- STA 13+50	-DR5- STA 14+74.64	8	247	239	
-GW1- STA 201+55	-GW1- STA 206+00	283	2,762	2,479	
SUBTOTAL NO.1		2,375	5,663	4,805	1,517
-L- STA 14+21.48	-L- STA 24+12.95	4,381	4,476	95	
-Y1A- STA 20+50.00	-Y1A- STA 22+59.61	38	1,029	991	
-Y3- STA 10+65.00	-Y3- STA 13+60.00	281	2,357	2,076	
-GW2- STA 212+65	-GW2- STA 217+20	0	1,697	1,697	
SUBTOTAL NO.2		4,700	9,559	4,859	0
-L- STA 24+12.95	-L- STA 35+96.80	2,560	2,873	313	
-Y4- STA 10+08.00	-Y4- STA 12+19.85	753	15		738
-Y5- STA 10+00.00	-Y5- STA 12+32.30	2,410	0		2,410
SUBTOTAL NO.3		5,723	2,888	313	3,148
-L- STA 35+96.80	-L- STA 46+47.96	2,736	2,862	126	
-Y6- STA 10+20.00	-Y6- STA 11+86.77	33	150	117	
-Y7- STA 10+65.00	-Y7- STA 12+90.00	8	1,446	1,438	
SUBTOTAL NO.4		2,777	4,458	1,681	0
-L- STA 46+47.96	-L- STA 72+20.00	8,727	9,859	1,132	
-Y8- STA 10+25.60	-Y8- STA 12+70.00	3	488	485	
-Y9- STA 10+25.89	-Y9- STA 12+00.00	89	178	89	
-Y10- STA 10+30.00	-Y10- STA 11+27.12	131	18		113
-Y11- STA 10+50.00	-Y11- STA 11+74.25	169	0		169
-Y12- STA 9+00.00	-Y12- STA 15+62.63	401	4,167	3,766	
-Y13- 10+37.76	-Y13- 16+05.00	1,466	286		1,180
-DR10- 10+10.00	-DR10- 11+33.51	62	3		59
SUBTOTAL NO.5		11,048	14,999	5,472	1,521
SUMMARY TOTALS		26,623	37,567	17,130	6,186
EST. SHOULDER CONSTRUCTION			1,495	1,495	
LOSS DUE TO CLEARING AND GRUBBING		-600		600	
WASTE IN LIEU OF BORROW				-6,186	-6,186
PROJECT TOTALS		26,023	39,062	13,039	0
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT				652	
GRAND TOTALS:		26,023	39,062	13,691	0
SAY:		26,500		14,000	
EARTHWORK TOTALS FOR ALTERNATIVE PAVEMENT - ABC UNDER CURB AND GUTTER					
SUMMARY TOTALS		26,623	37,567	17,130	6,186
ADJ. FOR ALT. PAV'T DESIGN		735	-368	-916	187
EST. SHOULDER CONSTRUCTION			1,495	1,495	
LOSS DUE TO CLEARING AND GRUBBING		-600		600	
WASTE IN LIEU OF BORROW				-6,373	-6,373
PROJECT TOTALS		26,758	38,694	11,936	0
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT				597	
GRAND TOTALS:		26,758	38,694	12,533	0
SAY:		27,000		13,000	
DDE = 90 CY					

Note: Earthwork quantities are calculated by the Roadway Design Unit. These earthwork quantities are based in part on subsurface data provided by the Geotechnical Engineering Unit.

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

COMPUTED BY: SCC DATE: 6/11/24
 CHECKED BY: DCE DATE: 6/11/24

(2-3-23)

PROJECT NO.
U-5783

SHEET NO.
3G-1

**STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS**

SUMMARY OF SUBSURFACE DRAINAGE

LINE	Station	Station	Location LT/RT/CL	Drain Type* UD/BD/SD	LF
	CONTINGENCY			SD	900
				TOTAL LF:	900

*UD = Underdrain
 *BD = Blind Drain
 *SD = Subsurface Drain

SUMMARY OF AGGREGATE SUBGRADE/STABILIZATION

LINE	Station	Station	Aggregate Type* ASU(1/2)/ AST	Aggregate Thickness INCHES [8" for ASU(2)]	Shallow Undercut CY	Class IV Subgrade Stabilization TONS	Geotextile for Subgrade Stabilization SY	Stabilizer Aggregate TONS	Class IV Aggregate Stabilization TONS
	CONTINGENCY		ASU	12	500	1500	1000		
			TOTAL CY/TONS/SY:		500	1500**	1000**	0	0

*ASU(1/2) = Aggregate Subgrade (Type 1 or 2)
 *AST = Aggregate Stabilization
 **Total tons of "Class IV Subgrade Stabilization" and total square yards of "Geotextile for Subgrade Stabilization" are only the estimated quantities for ASU(1/2)/AST and may only represent a portion of the subgrade stabilization and geotextile quantities shown in the Item Sheets of the Proposal.

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

PARCEL INDEX SHEET

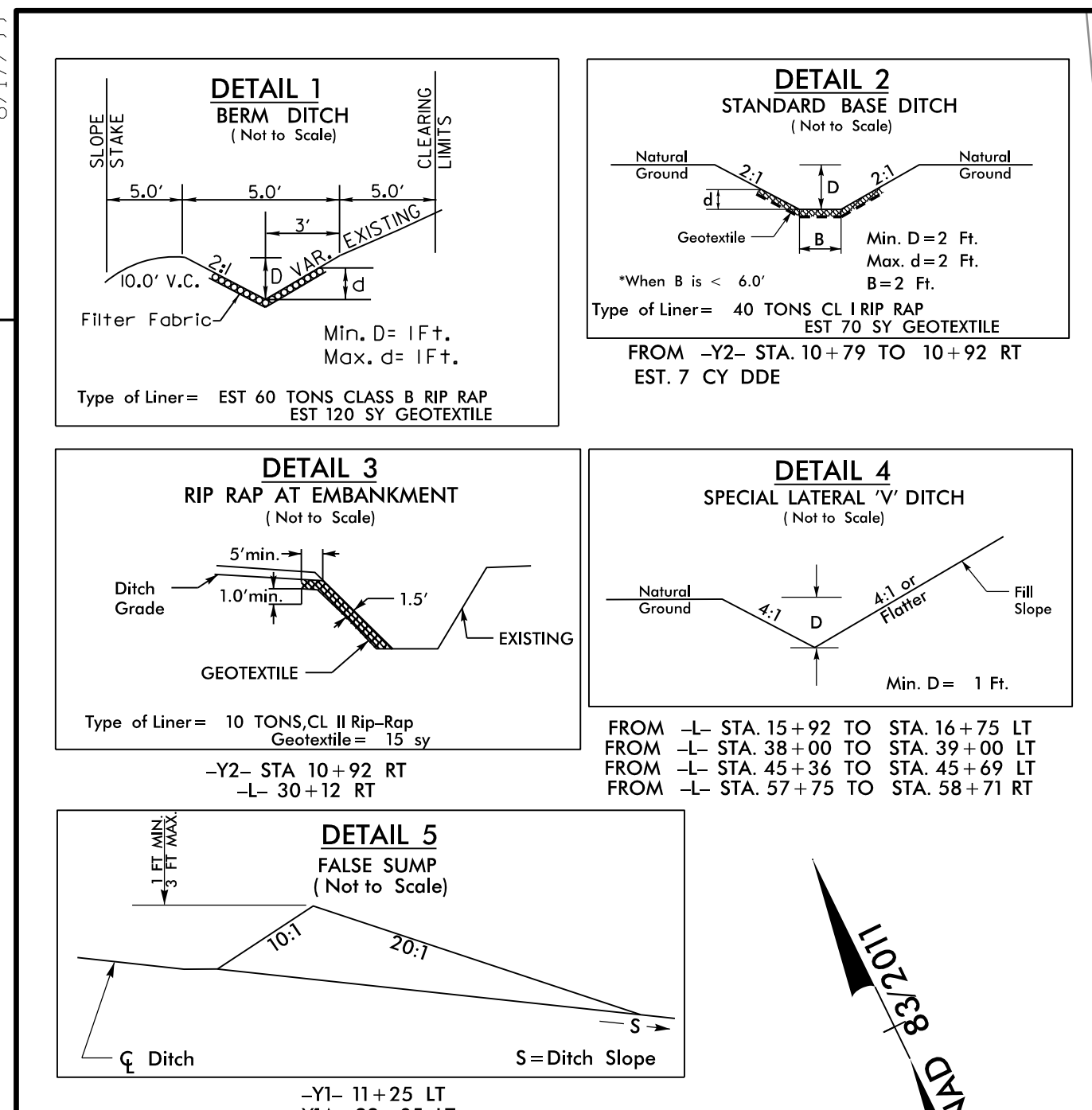
PARCEL No.	SHEET No.	PROPERTY OWNER NAME
1	4	JAMES J. BARRON III & BONNIE B. STEVENS
2	4	TIMOTHY R. SCOTT
3	4	SHERRIE LYNN JONES
4	4	TROY ALAN MCMURRY
5	4	DIEGO TOMAS TORRES
6	4	SHAWS CREEK FARM, HOME HOWNOWERS ASSOCIATION INC.
7	4	ZEHR HOLDINGS LLC.
8	4	SOUTH ATLANTIC DISTRIC OF THE CHRISTIAN AND MISSIONARY ALLIANCE, INC.
9	4	SOUTH ATLANTIC DISTRIC OF THE CHRISTIAN AND MISSIONARY ALLIANCE, INC.
10	4	DIANE HOUSAM ABBOTT
11	4	SABRINA GILBERT
12	4	JENNIFER A. BUTTS
13	4 & 5	JOHN HENRY CORHN
14	5	JAMES RICHARD BLACKWELL
15	5	GUNN PROPERTY MANAGEMENT, LLC.
16	5	LRH PROPERTIES, LLC.
17	5	JOSEPH RICKY STEPPE
18	5	1715 BREVARD ROAD LLC
19	5	DUANE AND MARGARET MCKIBBIN FAMILY LIMITED PARTNERSHIP
19A	5	DUANE AND MARGARET MCKIBBIN FAMILY LIMITED PARTNERSHIP
19B	5	DUANE AND MARGARET MCKIBBIN FAMILY LIMITED PARTNERSHIP
20	5	CRATE, LLC.
21	5	KATY MAHALEY
22	5	BEATTY FAMILY INTERESTS LIMITED PARTNERSHIP
23	5 & 6	BARBOUR THREADS, INC. (INGLES)
24	6	JIAM PALLACE, LLC
25	6	ROBERTS HENDERSONVILLE PROPERTY, LLC.
26	6	DEER PARK PARTNERS LLC.
27	6	LEE TUCKER JR.
28	6	PATRICK M. JAHN
29	6	1620 BREVARD CONDOMINIUM ASSOCIATION INC.
30	6	DAVID C. HARRINGTON
31	6	MICHAEL MARTIN
32	6	TIMOTHY OWEN
33	6	JMII INVESTMENTS, LLC.
34	6	BOBBY SEAGROVES AND WIFE JANETTE SEAGROVES
35	6	SONIA GIRONDA
36	6	MISTY MESSENGER
37	6	RANDY LEE ROLLINS AND WIFE JULIE A. ROLLINS
38	6 & 7	LITTLE FISH INVESTMENTS, LLC.
39	6	DEAN CLOER AND WIFE SANDRA T. CLOER
40	7	BRYAN RUDOLPH VANDERLOIS
41	7	OL GALIDIA PENA RODRIGUEZ
42	7	ASHBROOK PROPERTIES, LLC.
43	7	JANETTE GLENN
44	7	MICHAEL CHARLES FREEMAN, SR
44A	7	MICHAEL CHARLES FREEMAN, SR
45	7	MARCUS JAMES HOWARD
46	7	TIMOTHY OWEN; PAIGE OWEN
47	7	BIANCA EMMA FIGUEROA
48	7	MICHAEL E. CASTEEL
49	7	MARY CAROL MEGGS TRUSTEE; ALICE M. LOVE; IRREVOCABLE TRUST
49A	7 & 8	JACK E. HEDDEN JR, LARUEN E. HEDDEN, DIANA B. EDWARDS JUDY CARPENTER HARRIMAN, TRUSTEE OF THE JUDY CARPENTER HARRIMAN LIVING TRUST U/D/A
50	7	JOE DAVID KING
51	7	JOE DAVID KING
52	8	LAURELWOOD HOMEOWNERS ASSOCIATION
53	8	DAVID BRIAN OSTEEN
54	8 & 9	TIM BRECHEISEN REVOCABLE TRUST
55	8	TRACY M SMART
56	8	TKC CCLVII, LLC

PARCEL No.	SHEET No.	PROPERTY OWNER NAME
57	8	GRACE EVANGELICAL LUTHERAN CHURCH OF HENDERSONVILLE NC
58	8	EDNEY INVESTMENTS, LLC.
59	8	MEDWEST, LLC.
60	8	NILO T. PONCE
61	8	CASTLE GARDEN VILLAS, LLP
62	8	GEORGE LARRY DAVIS
63	8	RYAN P HALLAGAN
64	8	COLIN JOSEPH LYNCH
65	8	MARK K. WHITE
66	8	ANNE J. HANSLEY
67	8	JOEL M. HOFFMAN
68	8	STEPHEN P. COCHRAN
69	9	DAVID L SPRAGUE
69A	8	CASTLE GARDEN VILLAS, LLP
70	9	OLSON INVESTMENTS, LLC
71	9	JONATHAN PERNELL
72	9	SUZANNE REA
73	9	JOANNE H. HARRISON
74	9	JOHN G. LIBERATOS
75	9	ROBERT G. MARTINO
76	9	JOHN SCHNYDER
77	9	RON K. WILLIAMS
78	4	DOROTHY K. MATTERN
79	4	SUSAN L. ABRAHAMS
80	4	ROBERT A. MARSHALL
81	4	JAMES RICHARD BLACKWELL
82	6	DONALD B RICE AND WIFE
83	6	JEANETTE GLENN
84	7	WALTER EDWARD LEWIS
85	8	RONEY C. LITRELL
86	7	CHASE LUCAS KING
87	4 & 5	ECUSTA RAILS 2 TRAILS LLC

* PARCELS TO BE USED AS STAGING AREAS :
3, 8, 13, 15, 55, 61, 62, 64, 65, & 69A.

PROJECT REFERENCE NO. U-5783		SHEET NO. 4	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		NORTH CAROLINA PROFESSIONAL SEAL 030453 MATT MATTEN MATTEN & CRAIG 16/10/2024	
		NORTH CAROLINA PROFESSIONAL SEAL 030453 CRAIG C. CRAIG MATTEN & CRAIG 16/10/2024	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

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FAX (828) 254-4562



-Y1- CURVE DATA

PI Sta 13+11.98 Δ = 65° 16' 44.8" (RT) D = 22° 55' 05.9" L = 284.83' T = 160.12' R = 250.00' SE = 04 RO = 73	PI Sta 17+23.22 Δ = 14° 42' 18.2" (RT) D = 16° 22' 12.8" L = 89.83' T = 45.16' R = 350.00'
---	---

PI Sta 19+23.26
Δ = 3° 45' 33.0" (RT)
D = 20° 27' 46.0"
L = 155.20'
T = 79.65'
R = 280.00'

-ROUND- CURVE DATA

PI Sta 10+64.00 Δ = 107° 29' 52.5" (RT) D = 12° 54' 21.3" L = 88.18' T = 64.10' R = 47.00'	PI Sta 11+23.37 Δ = 73° 38' 52.9" (RT) D = 12° 54' 21.3" L = 60.41' T = 35.19' R = 47.00'
PI Sta 11+92.86 Δ = 86° 33' 43.2" (RT) D = 12° 54' 21.3" L = 71.01' T = 44.26' R = 47.00'	PI Sta 12+68.52 Δ = 92° 17' 31.5" (RT) D = 12° 54' 21.3" L = 75.71' T = 48.92' R = 47.00'

BEGIN PROJECT U-5783
-L- STA 12+00.00

BEGIN CONSTRUCTION
-DR5- POC STA 13+50.00

END CONSTRUCTION
-Y2- STA 12+85.00

END CONSTRUCTION
-Y1- STA 16+80.00

-DR5- CURVE DATA

PI Sta 11+70.56 Δ = 71° 50' 20.5" (RT) D = 11° 35' 29.6" L = 62.69' T = 36.22' R = 50.00' SE = 01 RO = 15	PI Sta 13+52.34 Δ = 12° 38' 34.2" (RT) D = 10° 13' 53.0" L = 123.57' T = 62.04' R = 560.00'
--	--

-Y2- CURVE DATA

PI Sta 14+52.90 Δ = 31° 09' 22.1" (LT) D = 40° 55' 32.0" L = 153.13' T = 39.03' R = 140.00'	PI Sta 11+64.65 Δ = 97° 29' 11.8" (LT) D = 63° 39' 43.1" L = 266.87' T = 102.60' SE = 04 RO = 73
--	--

-L- CURVE DATA

PI Sta 12+51.39 Δ = 5° 45' 30.3" (RT) D = 7° 57' 27.9" L = 72.36' T = 36.21' R = 720.00' SE = 03 RO = 54.75	PI Sta 13+87.99 Δ = 6° 15' 48.8" (RT) D = 2° 26' 17.2" L = 266.87' T = 133.58' R = 1,620.00' SE = RC RO = 62'
--	--

-GREENWAY I- CURVE DATA

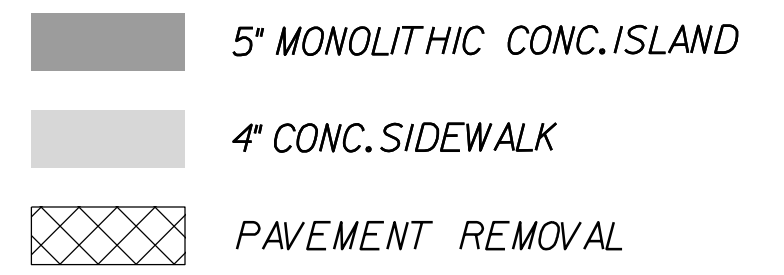
PI Sta 202+33.52 Δ = 13° 53' 06.7" (RT) D = 77° 25' 36.2" L = 17.93' T = 9.01' R = 74.00'	PI Sta 202+50.40 Δ = 12° 16' 35.3" (LT) D = 77° 25' 36.2" L = 15.86' T = 7.96' R = 74.00'
--	--

-Y1- CURVE DATA

PI Sta 14+52.90 Δ = 31° 09' 22.1" (LT) D = 40° 55' 32.0" L = 153.13' T = 39.03' R = 140.00'	PI Sta 12+51.39 Δ = 5° 45' 30.3" (RT) D = 7° 57' 27.9" L = 72.36' T = 36.21' R = 720.00' SE = 03 RO = 54.75
--	--

-L- CURVE DATA

PI Sta 13+78.99 Δ = 12° 26' 45.8" (LT) D = 3° 32' 12.4" L = 351.90' T = 176.65' R = 1,620.00' SE = 03 RO = 93'	PI Sta 20+72.97 Δ = 12° 26' 45.8" (LT) D = 3° 32' 12.4" L = 351.90' T = 176.65' R = 1,620.00' SE = 03 RO = 93'
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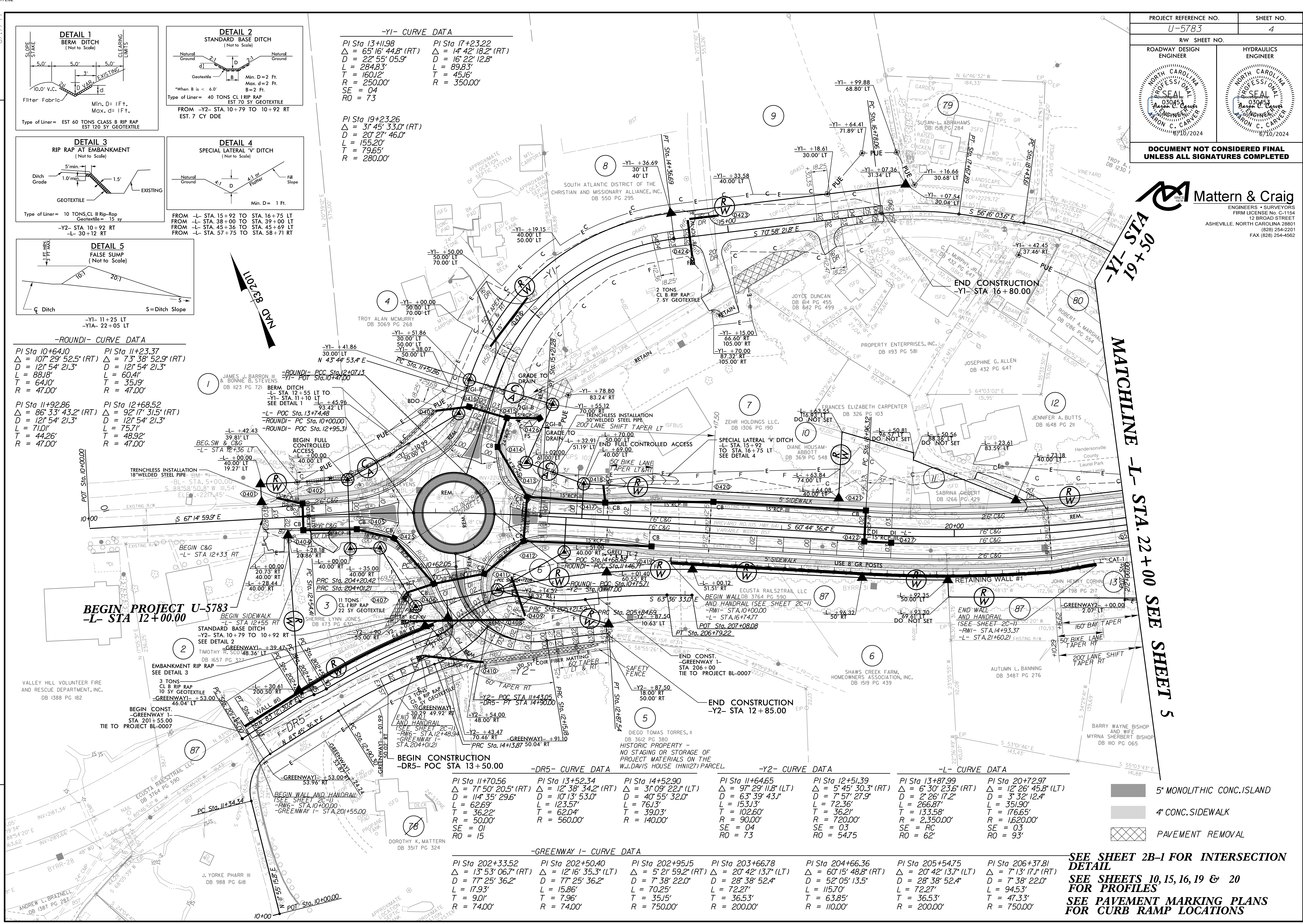


**SEE SHEET 2B-1 FOR INTERSECTION
DETAIL**
**SEE SHEETS 10, 15, 16, 19 & 20
FOR PROFILES**
**SEE PAVEMENT MARKING PLANS
FOR CURB RAMP LOCATIONS**

REVISIONS

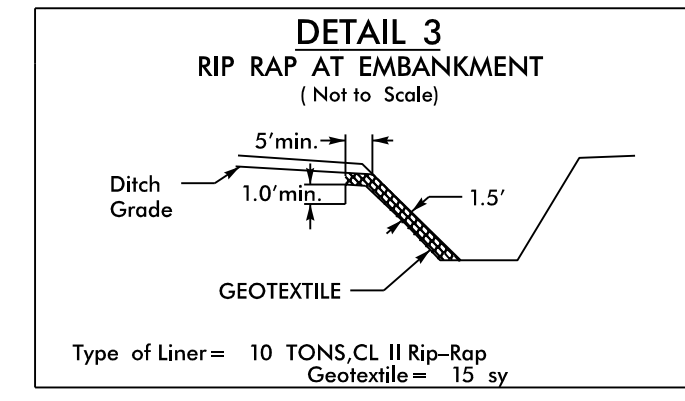
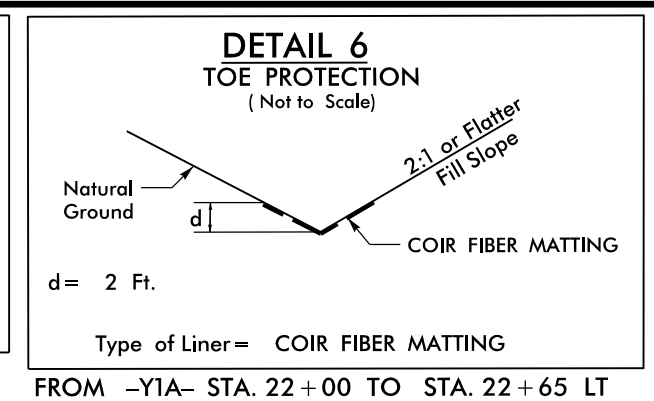
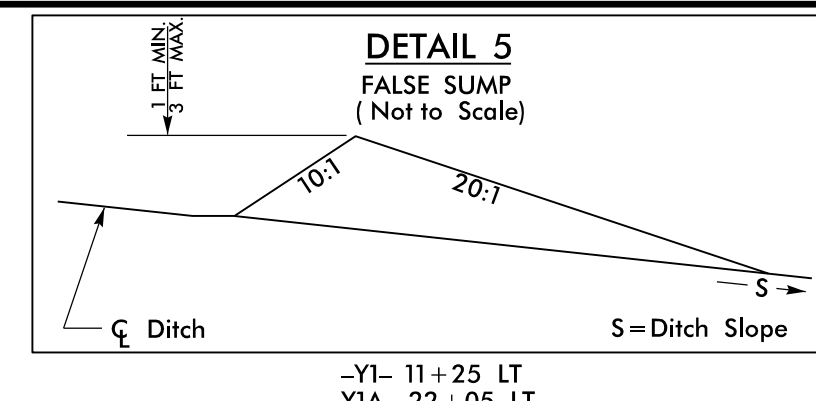
MATCHLINE -L- STA. 22+00 SEE SHEET 5

8.17/7.99



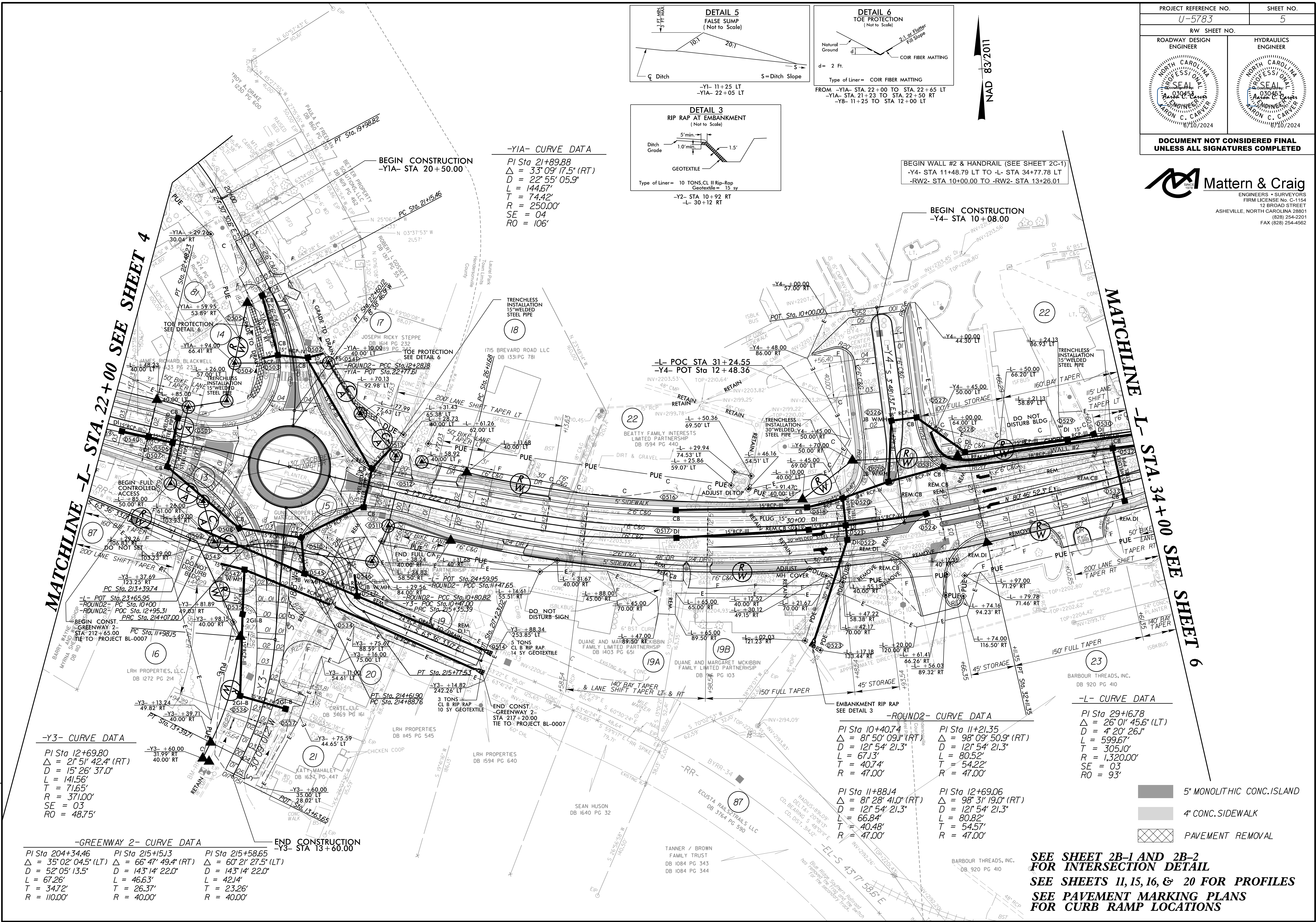
PROJECT REFERENCE NO. U-5783		SHEET NO. 5	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

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-Y1A- CURVE DATA
PI Sta 21+89.88
 $\Delta = 33^\circ 09' 17.5''$ (RT)
 $D = 22^\circ 55' 05.9''$
 $L = 144.67'$
 $T = 74.42'$
 $R = 250.00'$
 $SE = 04'$
 $RO = 106'$

BEGIN WALL #2 & HANDRAIL (SEE SHEET 2C-1)
-Y4- STA 11+48.79 LT TO -L- STA 34+77.78 LT
-RW2- STA 10+00.00 TO -RW2- STA 13+26.01



-Y3- CURVE DATA
PI Sta 12+69.80
 $\Delta = 2^\circ 51' 42.4''$ (RT)
 $D = 15^\circ 26' 37.0''$
 $L = 141.56'$
 $T = 71.65'$
 $R = 371.00'$
 $SE = 03'$
 $RO = 48.75'$

-GREENWAY 2- CURVE DATA
PI Sta 204+34.46 $\Delta = 35^\circ 02' 04.5''$ (LT) $D = 52^\circ 05' 13.5''$ $L = 67.26'$ $T = 34.72'$ $R = 110.00'$
PI Sta 215+15.13 $\Delta = 66^\circ 47' 49.4''$ (RT) $D = 143^\circ 14' 22.0''$ $L = 46.63'$ $T = 26.37'$ $R = 40.00'$
PI Sta 215+58.65 $\Delta = 60^\circ 21' 27.5''$ (LT) $D = 143^\circ 14' 22.0''$ $L = 42.14'$ $T = 23.26'$ $R = 40.00'$

-ROUND2- CURVE DATA
PI Sta 10+40.74 $\Delta = 81^\circ 50' 09.1''$ (RT) $D = 121^\circ 54' 21.3''$ $L = 67.13'$ $T = 40.74'$ $R = 47.00'$
PI Sta 11+21.35 $\Delta = 98^\circ 09' 50.9''$ (RT) $D = 121^\circ 54' 21.3''$ $L = 80.52'$ $T = 54.22'$ $R = 47.00'$

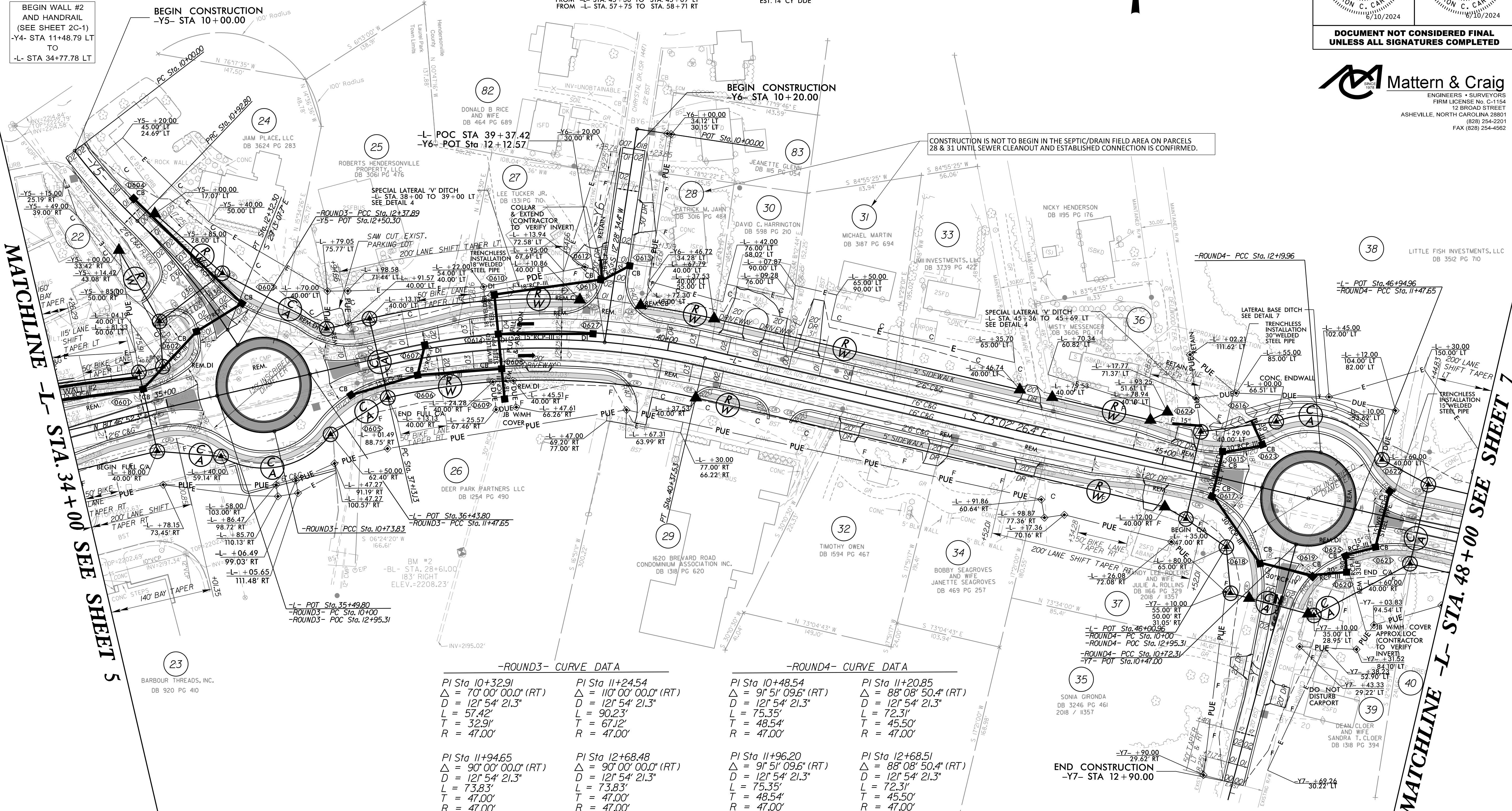
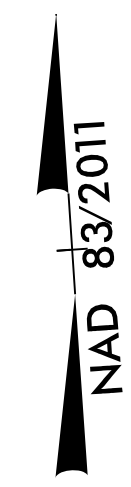
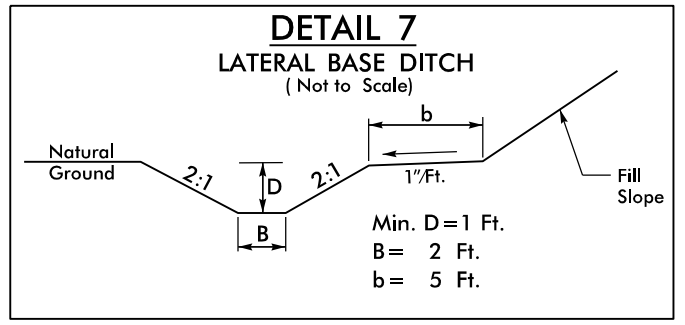
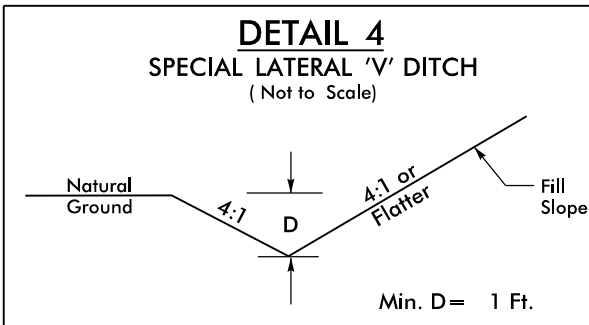
PI Sta 11+88.14 $\Delta = 81^\circ 28' 41.0''$ (RT) $D = 121^\circ 54' 21.3''$ $L = 66.84'$ $T = 40.48'$ $R = 47.00'$
PI Sta 12+69.06 $\Delta = 98^\circ 31' 19.0''$ (RT) $D = 121^\circ 54' 21.3''$ $L = 80.82'$ $T = 54.57'$ $R = 47.00'$

-L- CURVE DATA
PI Sta 29+16.78 $\Delta = 26^\circ 01' 45.6''$ (LT) $D = 4^\circ 20' 26.1''$ $L = 599.67'$ $T = 305.10'$ $R = 1,320.00'$ $SE = 03'$ $RO = 93'$

- 5' MONOLITHIC CONC. ISLAND
- 4' CONC. SIDEWALK
- PAVEMENT REMOVAL

SEE SHEET 2B-1 AND 2B-2 FOR INTERSECTION DETAIL
SEE SHEETS 11, 15, 16, & 20 FOR PROFILES
SEE PAVEMENT MARKING PLANS FOR CURB RAMP LOCATIONS

REVISIONS



BEGIN WALL #2 AND HANDRAIL (SEE SHEET 2C-1)
-Y4- STA 11+48.79 LT TO
-L- STA 34+77.78 LT

BEGIN CONSTRUCTION
-Y5- STA 10+00.00

BEGIN CONSTRUCTION
-Y6- STA 10+20.00

CONSTRUCTION IS NOT TO BEGIN IN THE SEPTIC/DRAIN FIELD AREA ON PARCELS 28 & 31 UNTIL SEWER CLEANOUT AND ESTABLISHED CONNECTION IS CONFIRMED.

MATCHLINE -L- STA. 34+00 SEE SHEET 5

MATCHLINE -L- STA. 48+00 SEE SHEET 7

-ROUND3- CURVE DATA

PI Sta 10+32.91 Δ = 70° 00' 00.0" (RT) D = 121' 54" 21.3" L = 57.42' T = 32.91' R = 47.00'	PI Sta 11+24.54 Δ = 110° 00' 00.0" (RT) D = 121' 54" 21.3" L = 90.23' T = 67.12' R = 47.00'
PI Sta 11+94.65 Δ = 90° 00' 00.0" (RT) D = 121' 54" 21.3" L = 73.83' T = 47.00' R = 47.00'	PI Sta 12+68.48 Δ = 90° 00' 00.0" (RT) D = 121' 54" 21.3" L = 73.83' T = 47.00' R = 47.00'

-Y5- CURVE DATA

PI Sta 10+46.49 Δ = 8° 42' 58.8" (LT) D = 9° 23' 33.9" L = 92.80' T = 46.49' R = 610.00' SE = 03' RO = 30'	PI Sta 11+62.85 Δ = 13° 06' 10.8" (RT) D = 9° 23' 33.9" L = 139.50' T = 70.06' R = 610.00' SE = 036' RO = 62.1'
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-ROUND4- CURVE DATA

PI Sta 10+48.54 Δ = 91° 51' 09.6" (RT) D = 121' 54" 21.3" L = 75.35' T = 48.54' R = 47.00'	PI Sta 11+20.85 Δ = 88° 08' 50.4" (RT) D = 121' 54" 21.3" L = 72.31' T = 45.50' R = 47.00'
PI Sta 11+96.20 Δ = 91° 51' 09.6" (RT) D = 121' 54" 21.3" L = 75.35' T = 48.54' R = 47.00'	PI Sta 12+68.51 Δ = 88° 08' 50.4" (RT) D = 121' 54" 21.3" L = 72.31' T = 45.50' R = 47.00'

-L- CURVE DATA

PI Sta 38+78.21 Δ = 26° 10' 41.3" (RT) D = 8° 04' 11.4" L = 324.40' T = 165.08' R = 710.00' SE = 04' RO = 124'

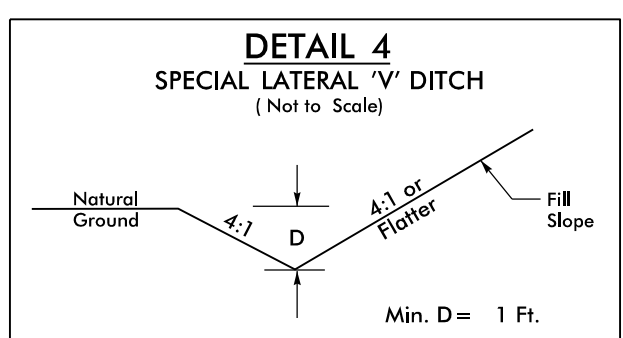
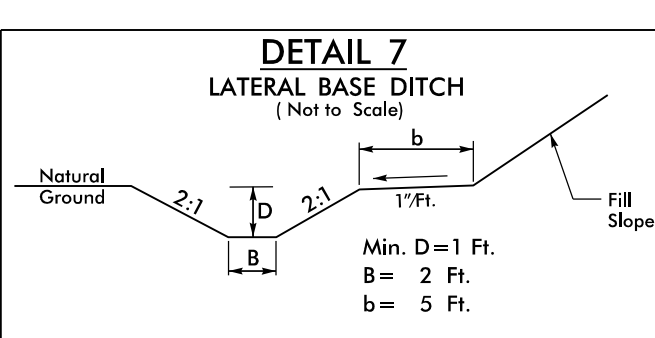
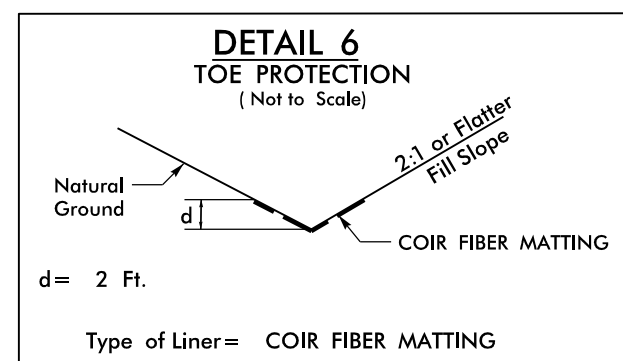
5' MONOLITHIC CONC. ISLAND
4' CONC. SIDEWALK

SEE SHEET 2B-2 AND 2B-3 FOR INTERSECTION DETAIL
SEE SHEETS 12, 15, & 17 FOR PROFILES
SEE PAVEMENT MARKING PLANS FOR CURB RAMP LOCATIONS

REVISIONS

PROJECT REFERENCE NO. U-5783	SHEET NO. 7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

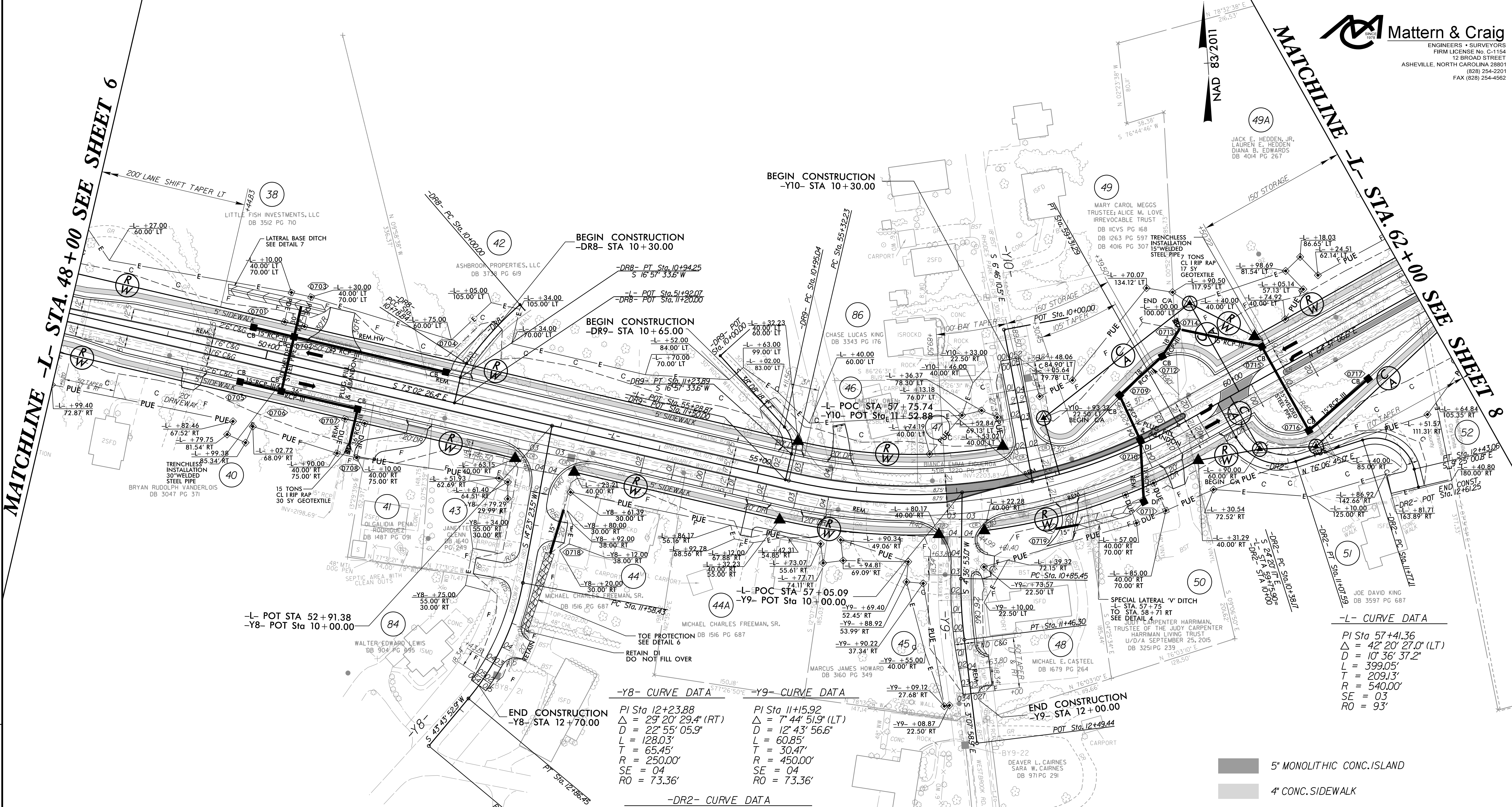
-DR8- CURVE DATA		-DR9- CURVE DATA	
PI Sta 10+39.62	PI Sta 10+86.64	PI Sta 11+10.69	
$\Delta = 14^{\circ} 07' 00.0''$ (LT)	$\Delta = 22^{\circ} 04' 11.6''$ (LT)	$\Delta = 55^{\circ} 59' 51.8''$ (RT)	
D = 17' 54" 17.8"	D = 143' 14" 22.0"	D = 190' 59" 09.4"	
L = 78.84'	L = 15.41'	L = 28.85'	
T = 39.62'	T = 7.80'	T = 15.65'	
R = 320.00'	R = 40.00'	R = 30.00'	



Type of Liner= COIR FIBER MATTING
FROM -Y1- STA. 22+00 TO STA. 22+65 LT
-Y1- STA. 21+23 TO STA. 22+50 RT
-Y8- 11+25 TO STA 12+00 LT

FROM -ROUND4- 12+00 TO 12+60 RT
EST. 9 CY DDE
-L- STA. 49+50 TO STA. 50+40 LT
EST. 14 CY DDE

FROM -L- STA. 15+92 TO STA. 16+75 LT
FROM -L- STA. 38+00 TO STA. 39+00 LT
FROM -L- STA. 45+36 TO STA. 45+69 LT
FROM -L- STA. 57+75 TO STA. 58+71 RT



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BEGIN CONSTRUCTION
-DR8- STA 10+30.00

BEGIN CONSTRUCTION
-DR9- STA 10+65.00

BEGIN CONSTRUCTION
-Y10- STA 10+30.00

-Y8- CURVE DATA
PI Sta 12+23.88
 $\Delta = 29^{\circ} 20' 29.4''$ (RT)
D = 22' 55" 05.9"
L = 128.03'
T = 65.45'
R = 250.00'
SE = 04'
RO = 73.36'

-Y9- CURVE DATA
PI Sta 11+15.92
 $\Delta = 7^{\circ} 44' 51.9''$ (LT)
D = 12' 43" 56.6"
L = 60.85'
T = 30.47'
R = 450.00'
SE = 04'
RO = 73.36'

-DR2- CURVE DATA
PI Sta 10+79.79
 $\Delta = 79^{\circ} 33' 15.2''$ (LT)
D = 114' 35" 29.6"
L = 69.42'
T = 41.62'
R = 50.00'



PI Sta 12+20.36
 $\Delta = 94^{\circ} 28' 14.2''$ (RT)
D = 143' 14" 22.0"
L = 65.95'
T = 43.25'
R = 40.00'

-L- CURVE DATA
PI Sta 57+41.36
 $\Delta = 42^{\circ} 20' 27.0''$ (LT)
D = 10' 36" 37.2"
L = 399.05'
T = 209.13'
R = 540.00'
SE = 03'
RO = 93'

- 5' MONOLITHIC CONC. ISLAND
- 4' CONC. SIDEWALK

SEE SHEET 2B-3 FOR INTERSECTION
DETAIL
SEE SHEETS 13, 16, & 17 FOR PROFILES
SEE PAVEMENT MARKING PLANS
FOR CURB RAMP LOCATIONS

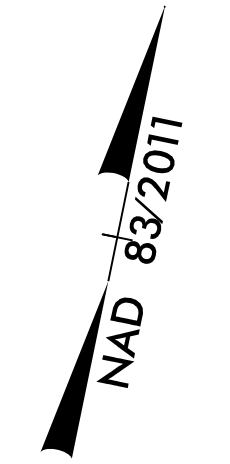
REVISIONS

PROJECT REFERENCE NO. U-5783		SHEET NO. 8	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
			

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

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ENGINEERS + SURVEYORS
FIRM LICENSE No. G-1154
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ASHEVILLE, NORTH CAROLINA 28801
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FAX (828) 254-4562

★ **SIGNAL UPGRADE**

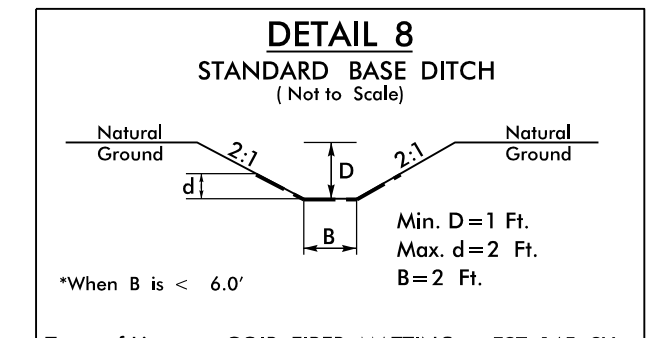


-Y12- CURVE DATA

PI Sta 10+86.44	PI Sta 14+36.77
$\Delta = 1^{\circ} 01' 02.4''$ (LT)	$\Delta = 3^{\circ} 56' 09.3''$ (RT)
D = 0' 16' 22.2"	D = 1' 12' 04.2"
L = 372.87'	L = 327.67'
T = 186.44'	T = 163.90'
R = 21,000.00'	R = 4,770.00'
SE = RC	SE = NC
RO = 61.2	RO = N/A

-L- CURVE DATA

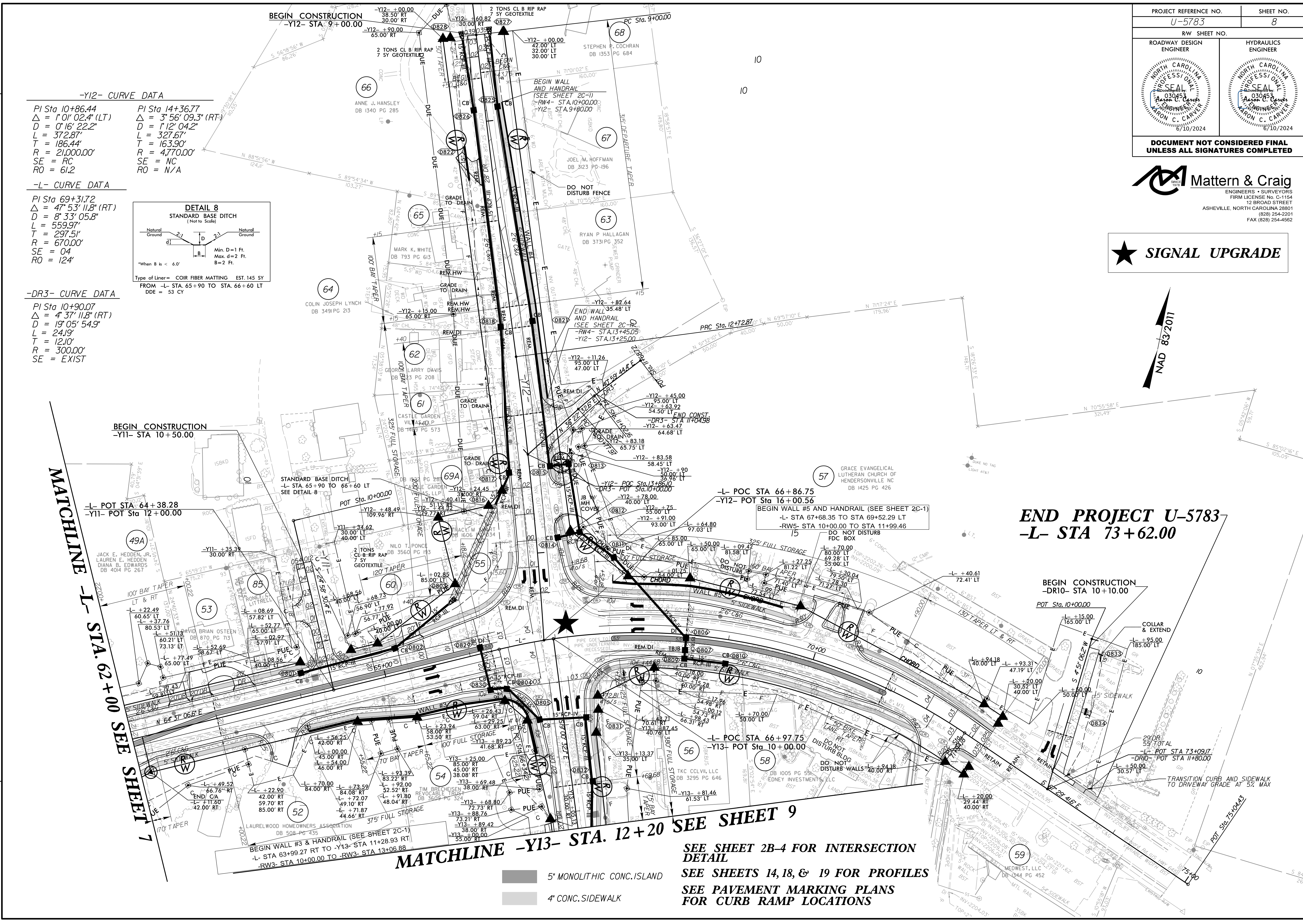
PI Sta 69+31.72
$\Delta = 4^{\circ} 53' 11.8''$ (RT)
D = 8' 33' 05.8"
L = 559.97'
T = 297.51'
R = 670.00'
SE = 04
RO = 124'



-DR3- CURVE DATA

PI Sta 10+90.07
$\Delta = 4^{\circ} 37' 11.8''$ (RT)
D = 19' 05' 54.9"
L = 24.19'
T = 12.10'
R = 300.00'
SE = EXIST

Type of Liner = COIR FIBER MATTING EST. 145 SY
FROM -L- STA. 65+90 TO STA. 66+60 LT
DDE = 53 CY





END PROJECT U-5783
-L- STA 73+62.00

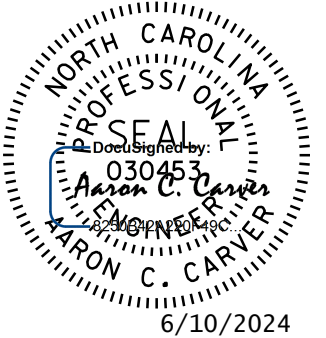
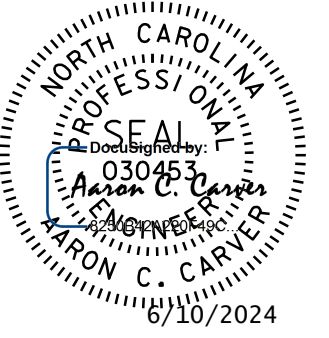
MATCHLINE -L- STA. 62+00 SEE SHEET 7

MATCHLINE -Y13- STA. 12+20 SEE SHEET 9

SEE SHEET 2B-4 FOR INTERSECTION DETAIL
SEE SHEETS 14, 18, & 19 FOR PROFILES
SEE PAVEMENT MARKING PLANS FOR CURB RAMP LOCATIONS

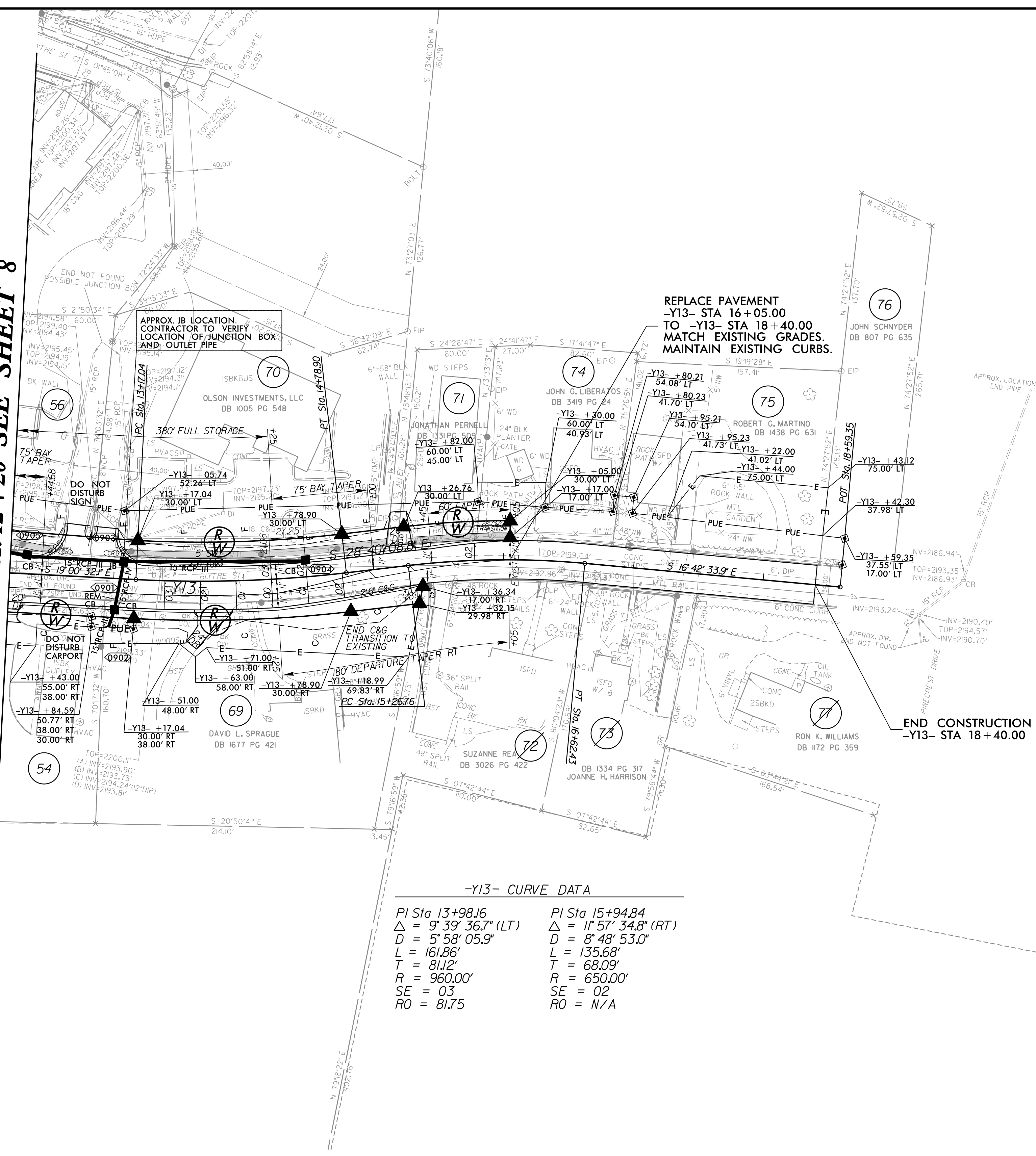
-  5" MONOLITHIC CONC. ISLAND
-  4" CONC. SIDEWALK

REVISIONS

PROJECT REFERENCE NO. <i>U-5783</i>		SHEET NO. <i>9</i>	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

Mattern & Craig
ENGINEERS • SURVEYORS
FIRM LICENSE No. C-1154
12 BROAD STREET
ASHEVILLE, NORTH CAROLINA 28801
(828) 254-2201
FAX (828) 254-4562

MATCHLINE -Y13- STA. 12 + 20 SEE SHEET 8



-Y13- CURVE DATA

<i>PI Sta 13+98.16</i>	<i>PI Sta 15+94.84</i>
$\Delta = 9^{\circ} 39' 36.7''$ (LT)	$\Delta = 1^{\circ} 57' 34.8''$ (RT)
<i>D = 5' 58" 05.9"</i>	<i>D = 8' 48" 53.0"</i>
<i>L = 161.86'</i>	<i>L = 135.68'</i>
<i>T = 81.12'</i>	<i>T = 68.09'</i>
<i>R = 960.00'</i>	<i>R = 650.00'</i>
<i>SE = 03</i>	<i>SE = 02</i>
<i>RO = 81.75</i>	<i>RO = N/A</i>

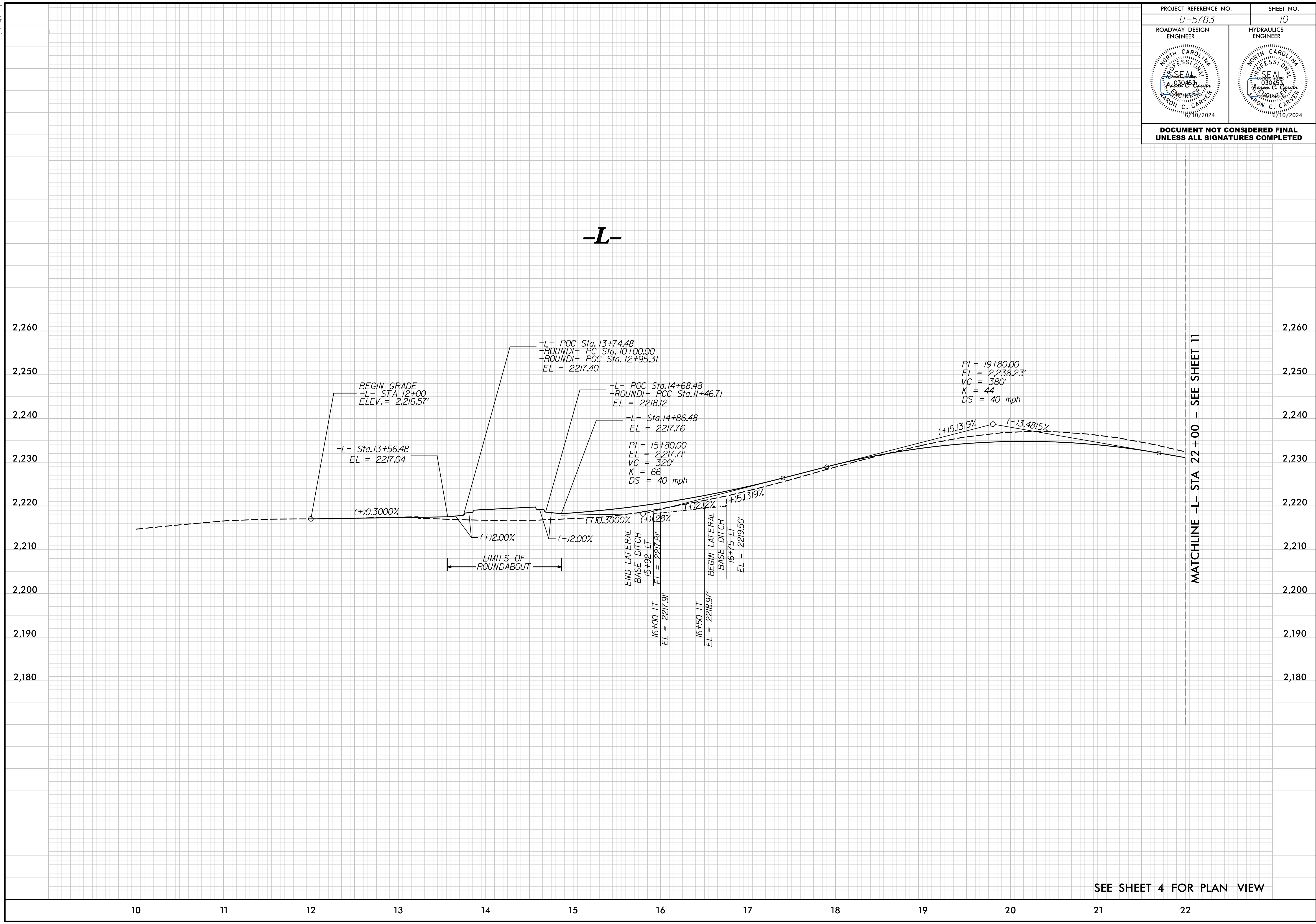
REVISIONS

 4" CONC. SIDEWALK

SEE SHEET 18 FOR PROFILE
SEE PAVEMENT MARKING PLANS
FOR CURB RAMP LOCATIONS

5/14/99



PROJECT REFERENCE NO. <i>U-5783</i>	SHEET NO. <i>10</i>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



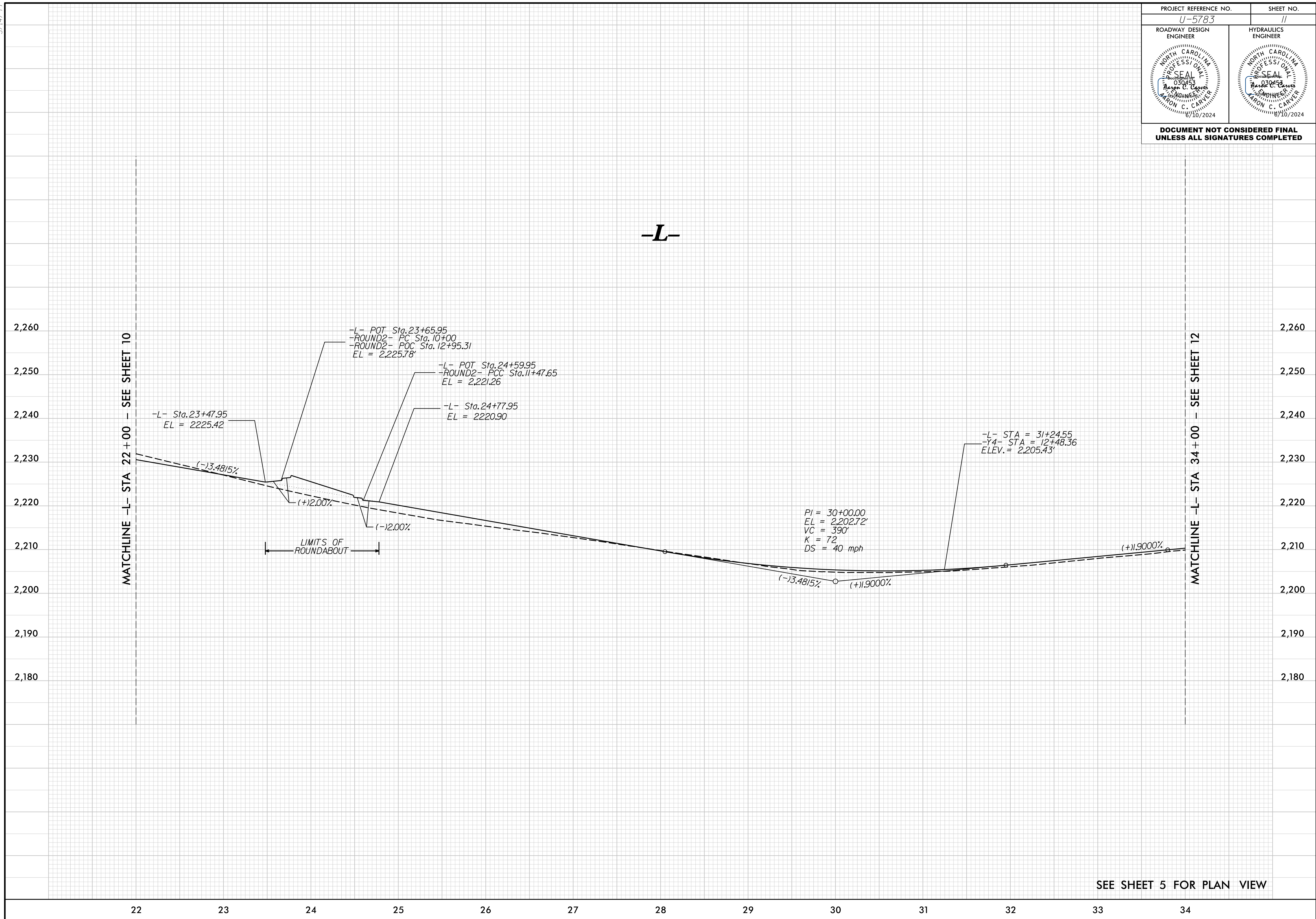
SEE SHEET 4 FOR PLAN VIEW

MATCHLINE -L- STA 22 + 00 - SEE SHEET 11

5/14/99

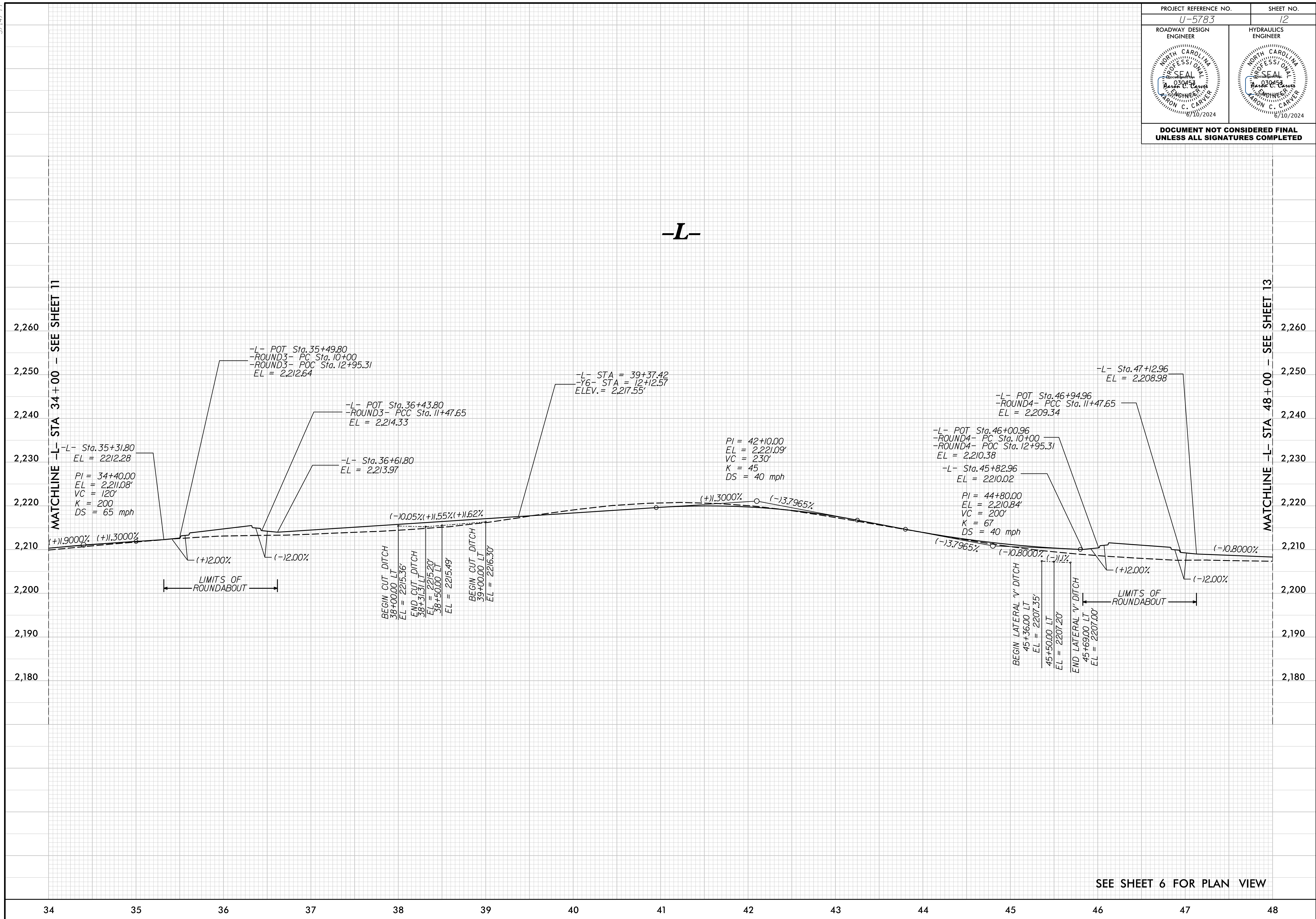
PROJECT REFERENCE NO. U-5783	SHEET NO. 11
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
	

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



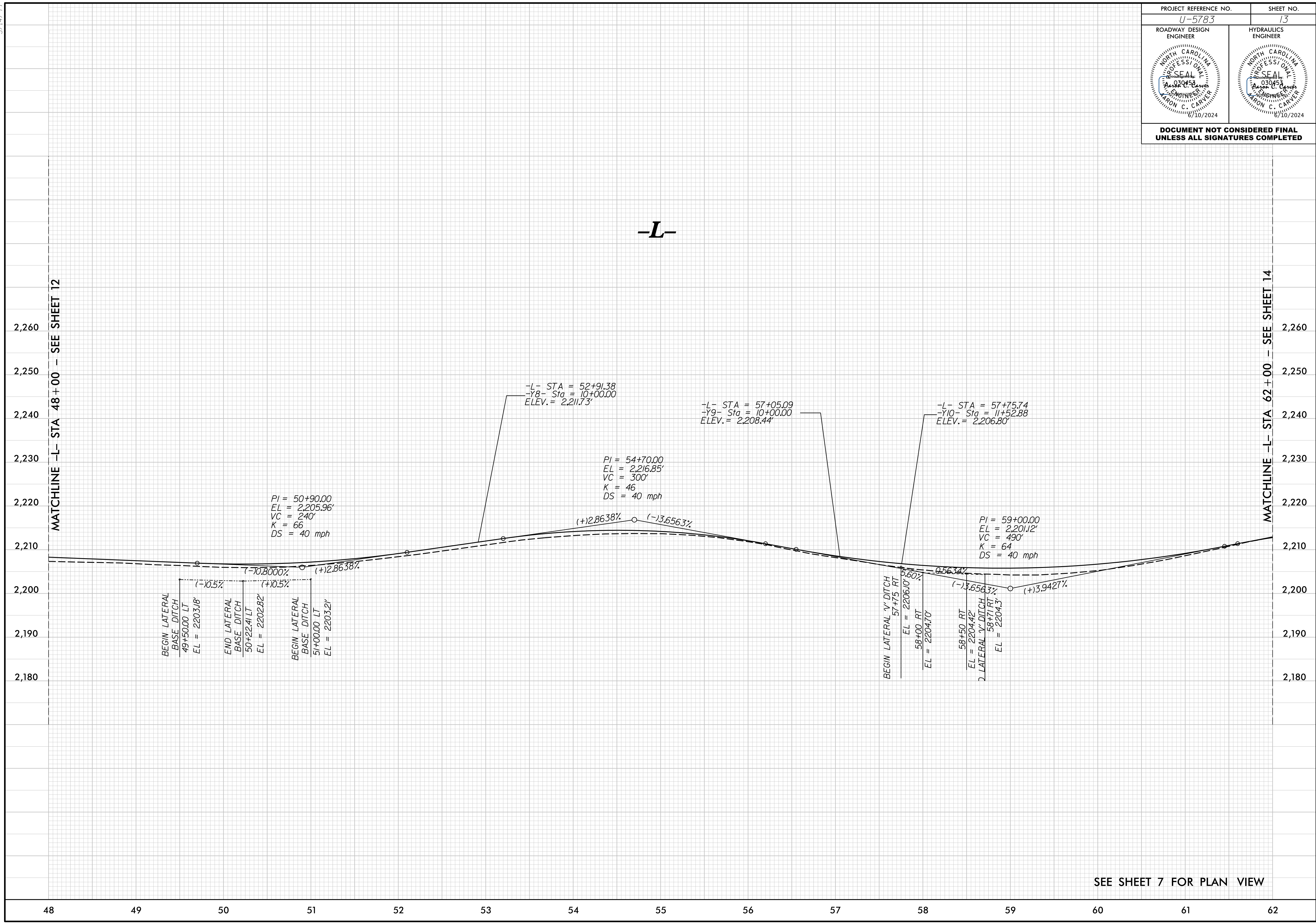
5/14/99

PROJECT REFERENCE NO. U-5783	SHEET NO. 12
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



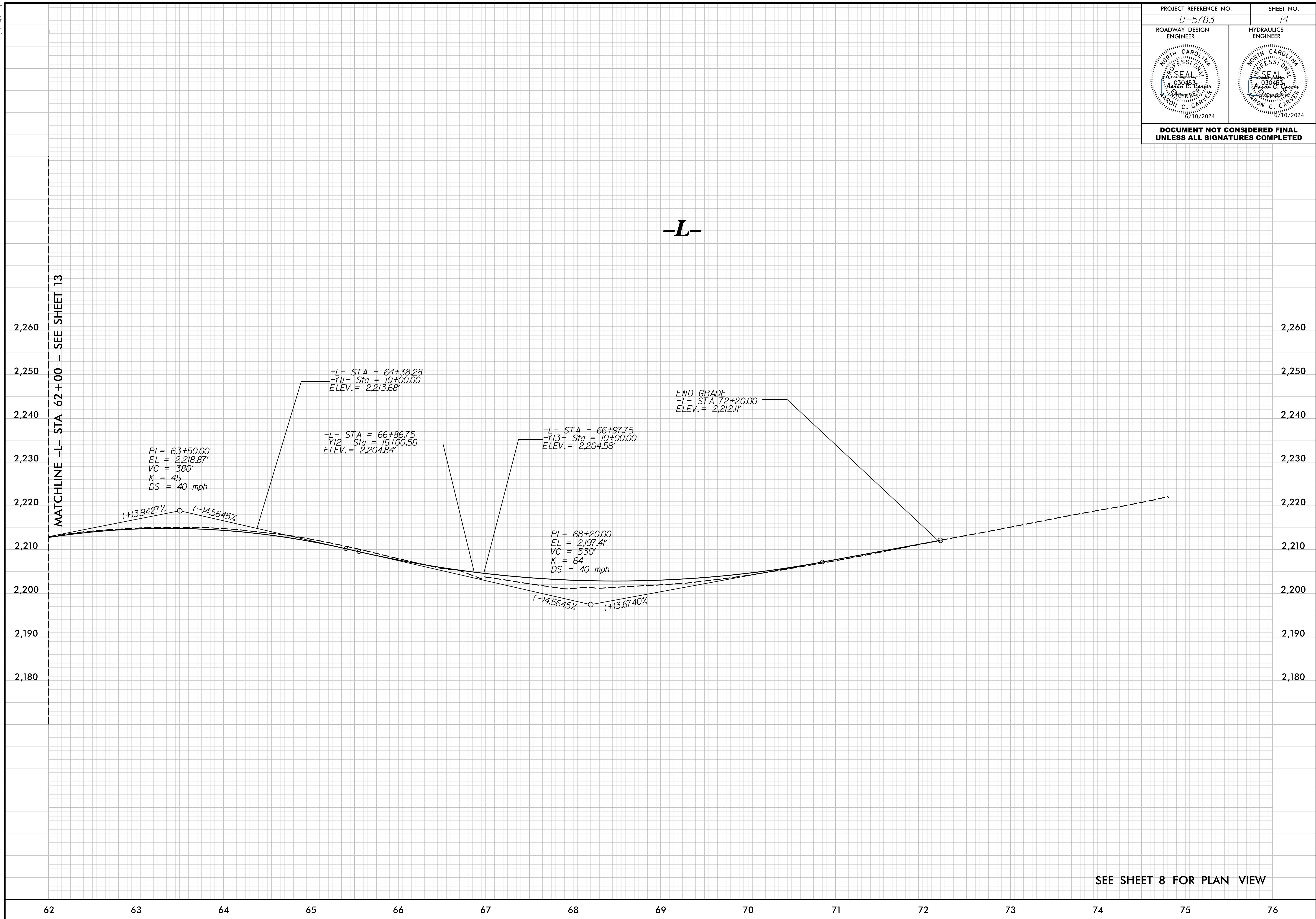
5/14/99

PROJECT REFERENCE NO. <i>U-5783</i>	SHEET NO. <i>13</i>
ROADWAY DESIGN ENGINEER <i>Arion C. Carver</i>	HYDRAULICS ENGINEER <i>Arion C. Carver</i>
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



5/14/99

PROJECT REFERENCE NO. U-5783	SHEET NO. 14
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

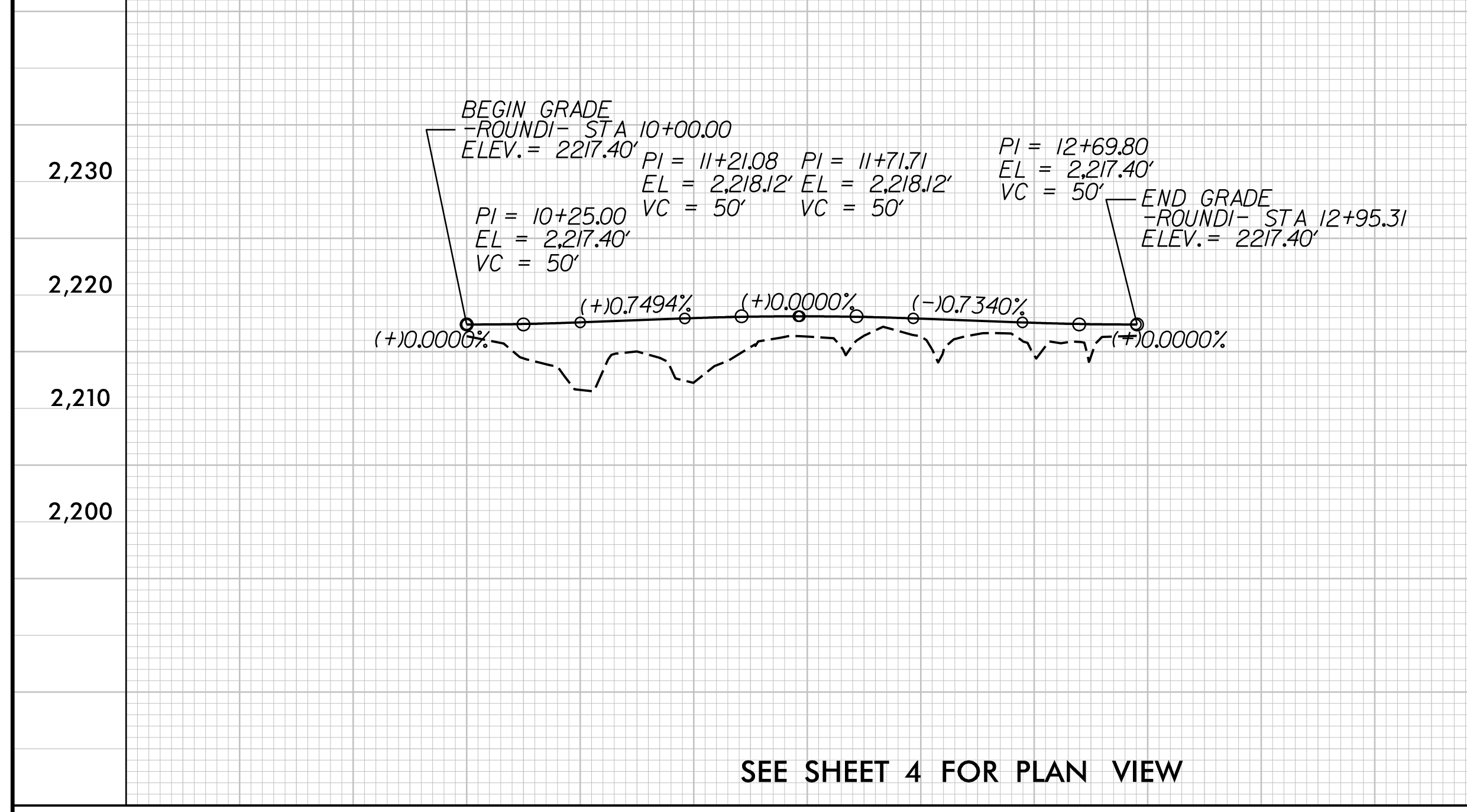


SEE SHEET 8 FOR PLAN VIEW

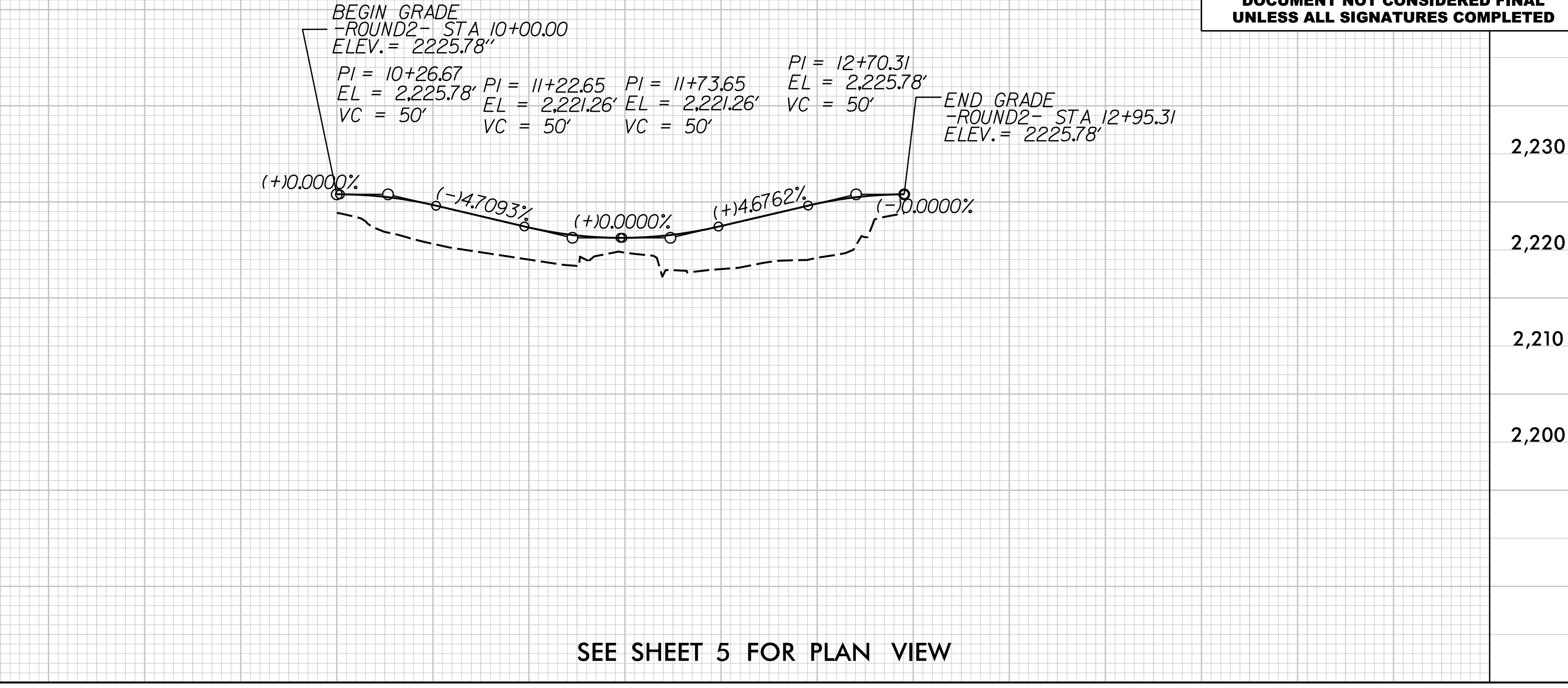
5/28/24

PROJECT REFERENCE NO. U-5783		SHEET NO. 15
ROADWAY DESIGN ENGINEER AARON C. CARVER 6/10/2024	HYDRAULICS ENGINEER AARON C. CARVER 6/10/2024	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		

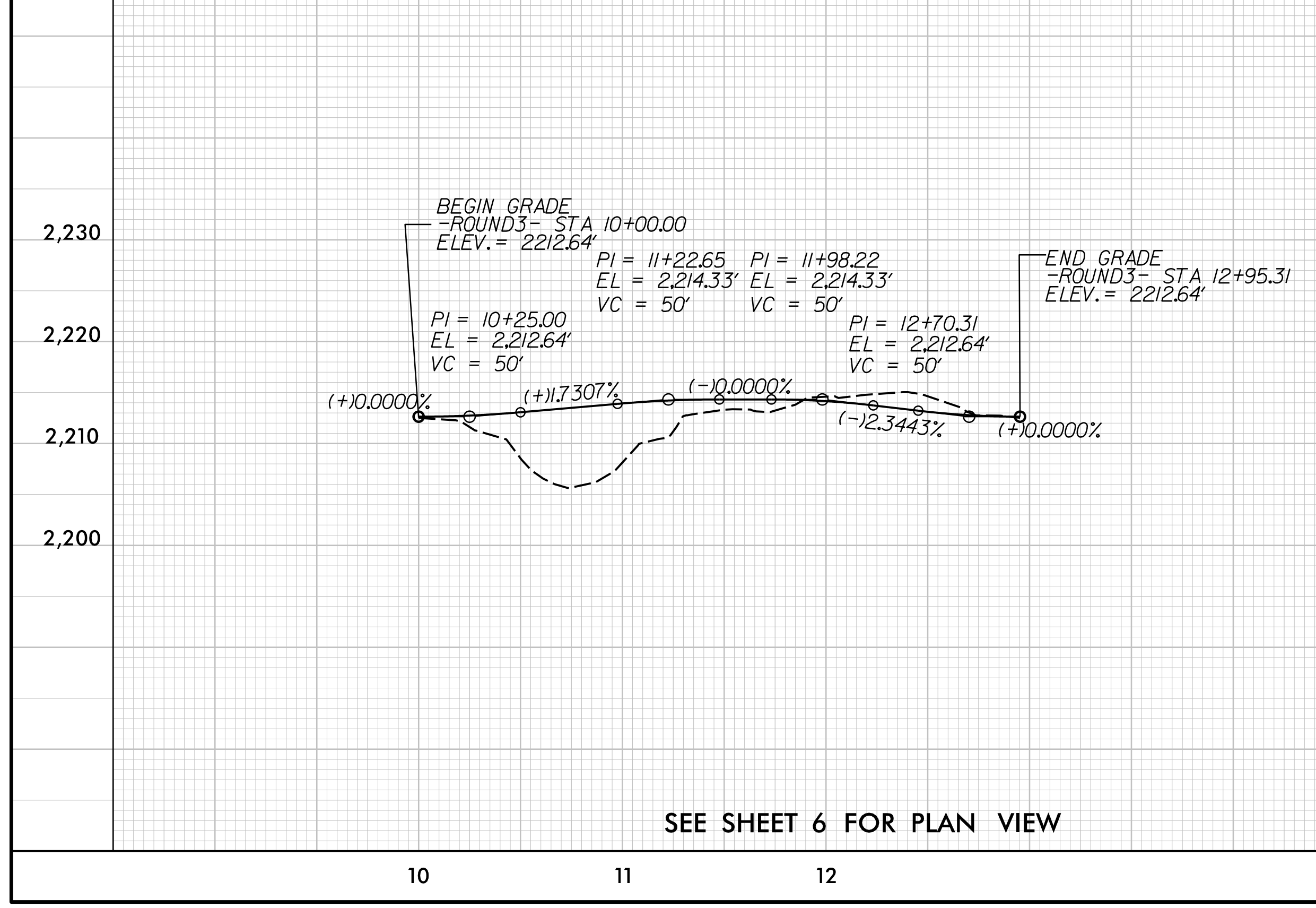
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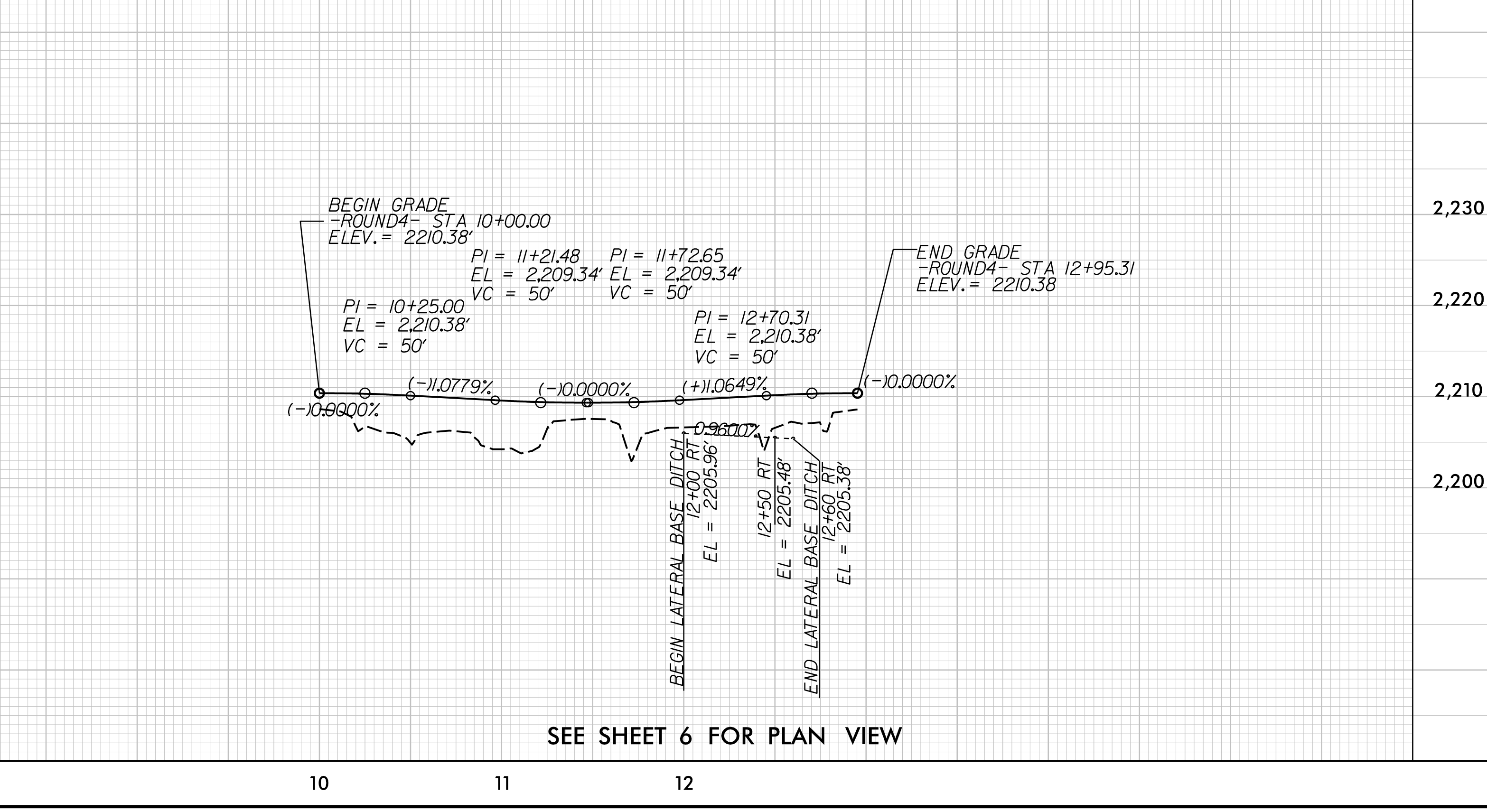
ROUND #2



ROUND #3



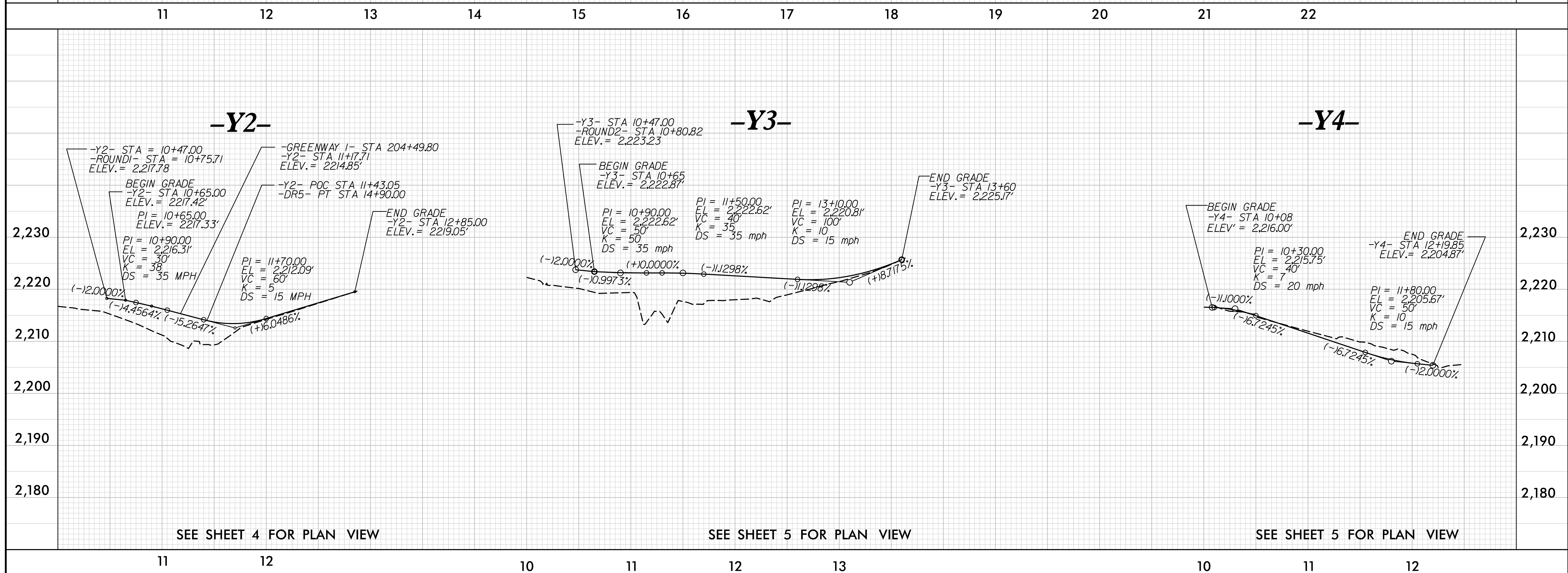
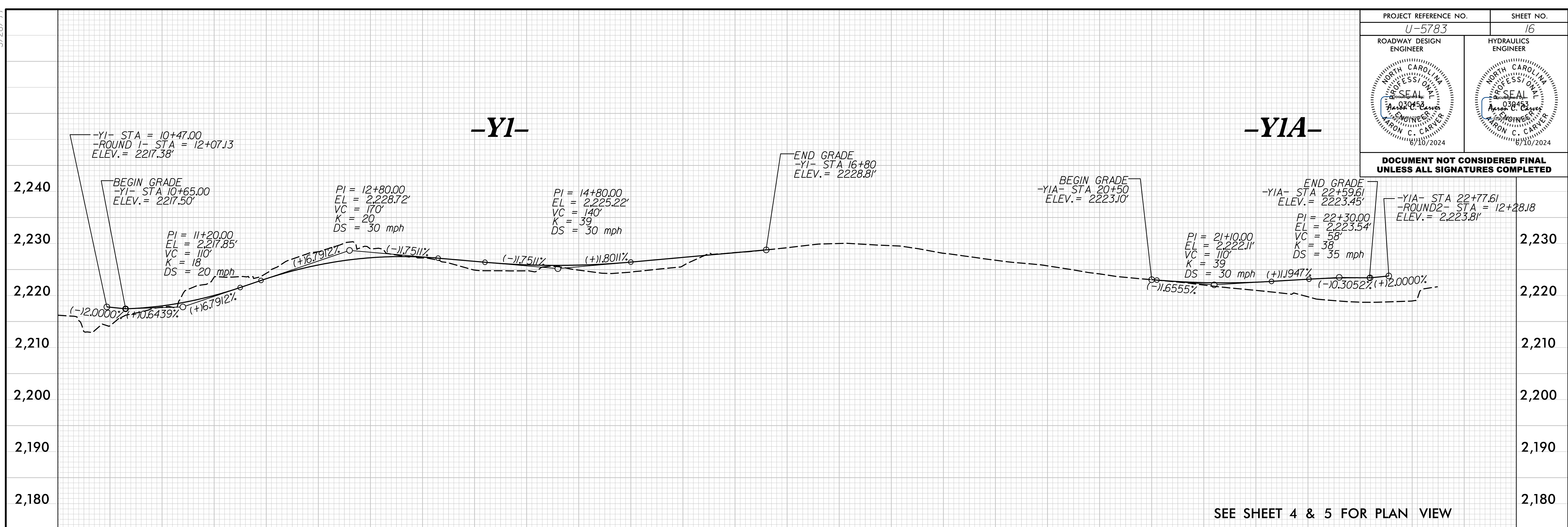
ROUND #4



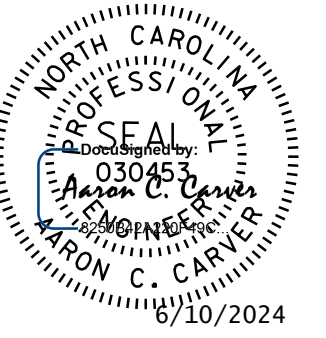
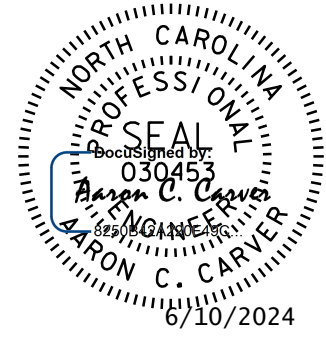
5/28/24

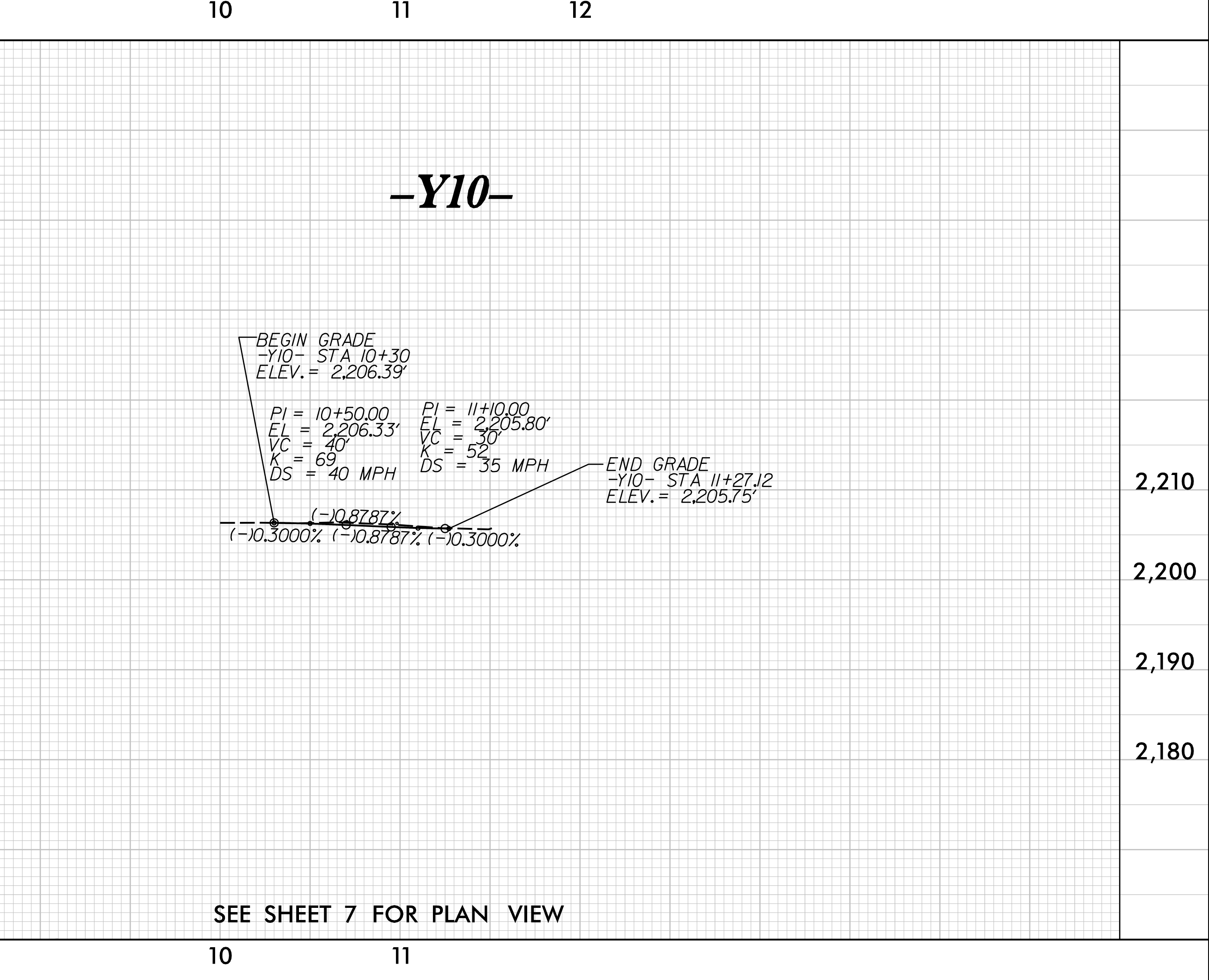
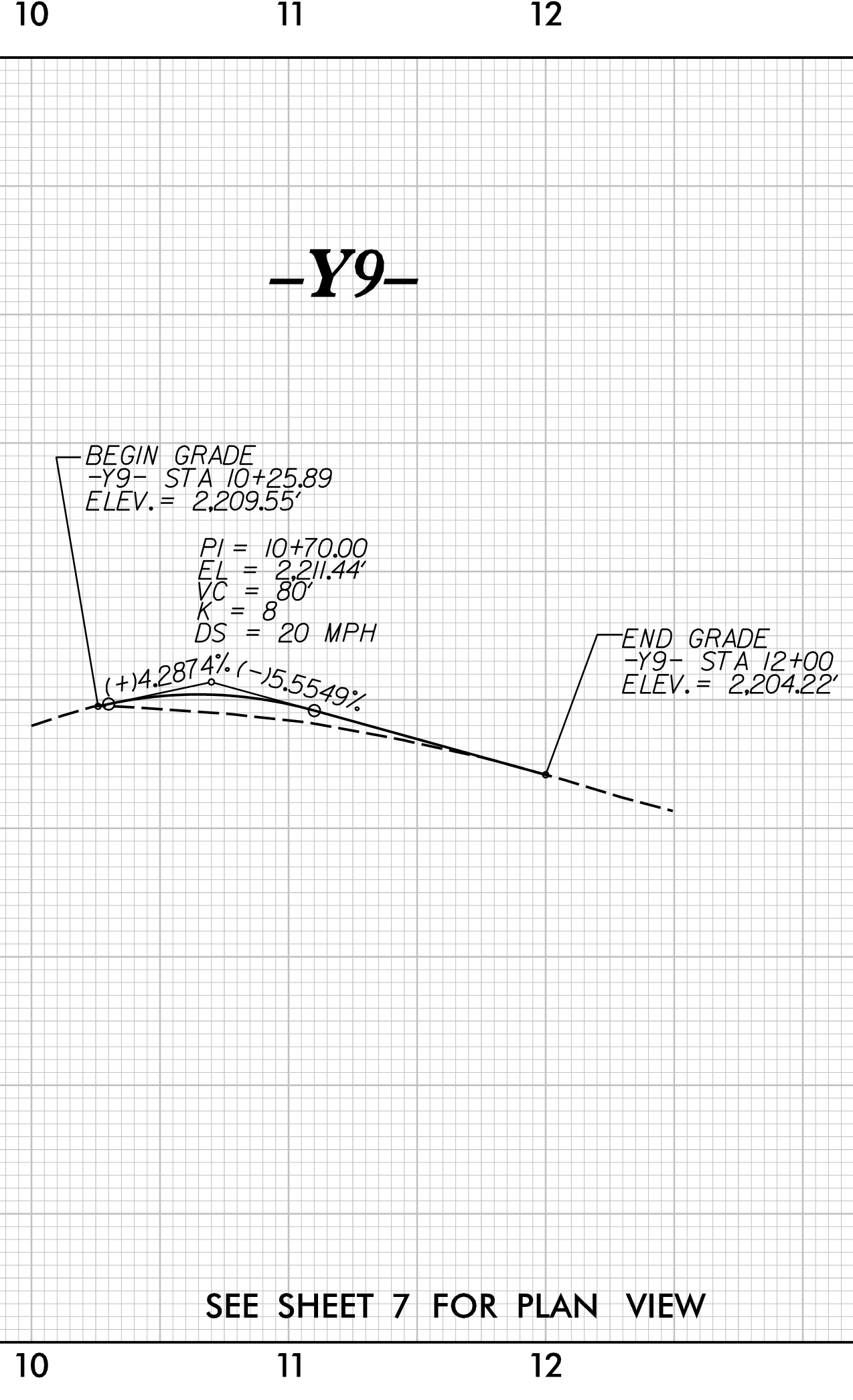
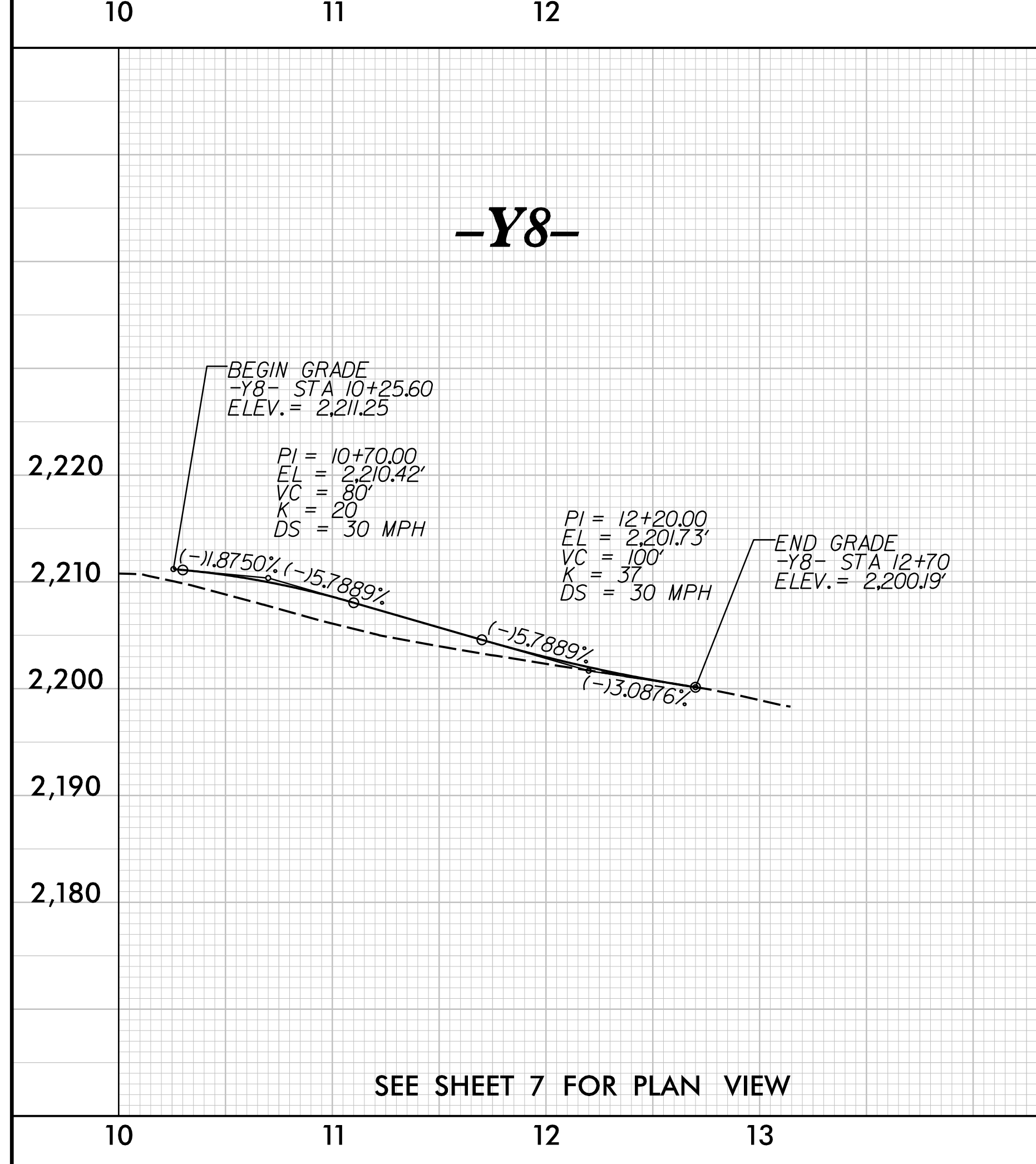
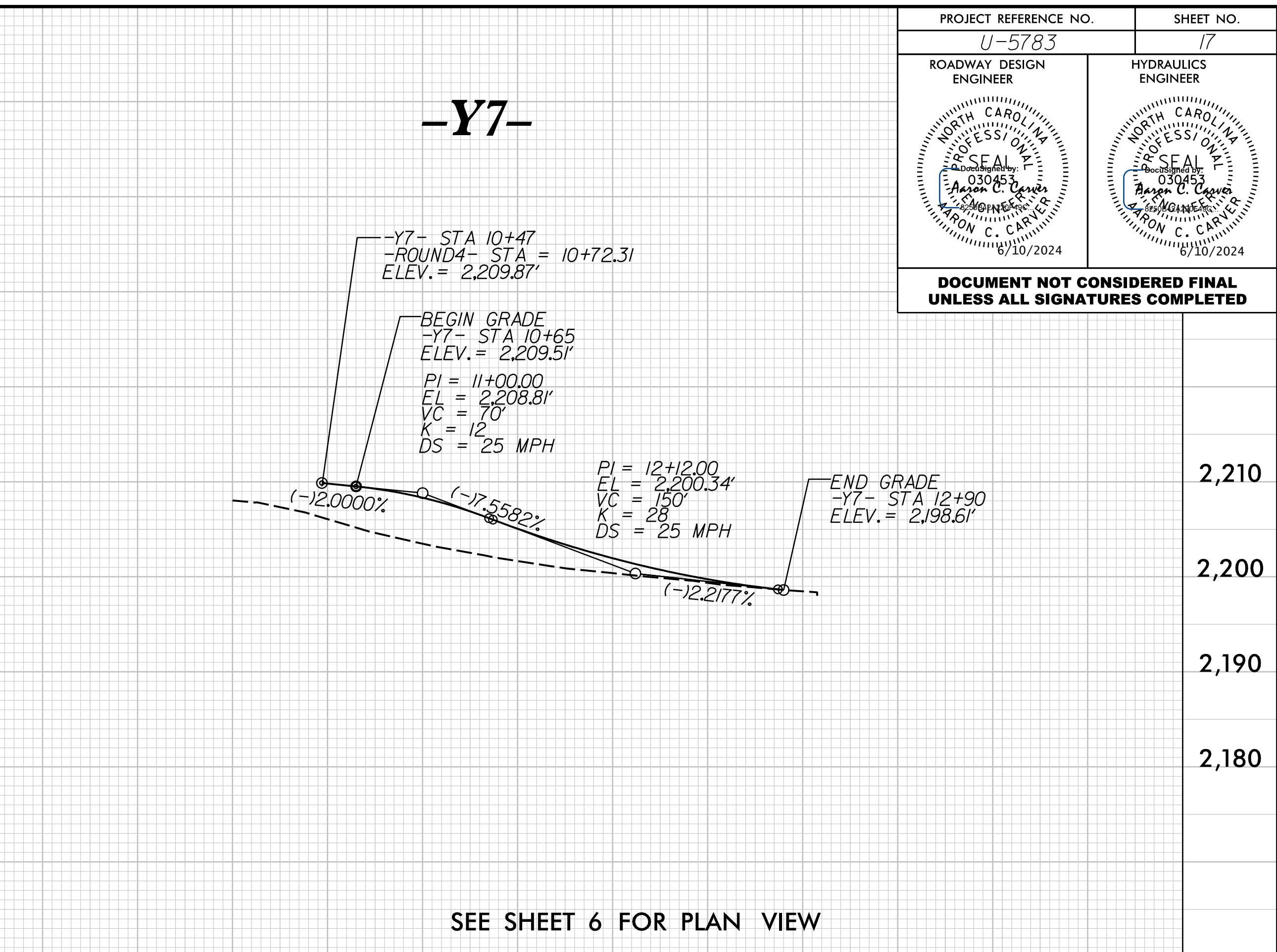
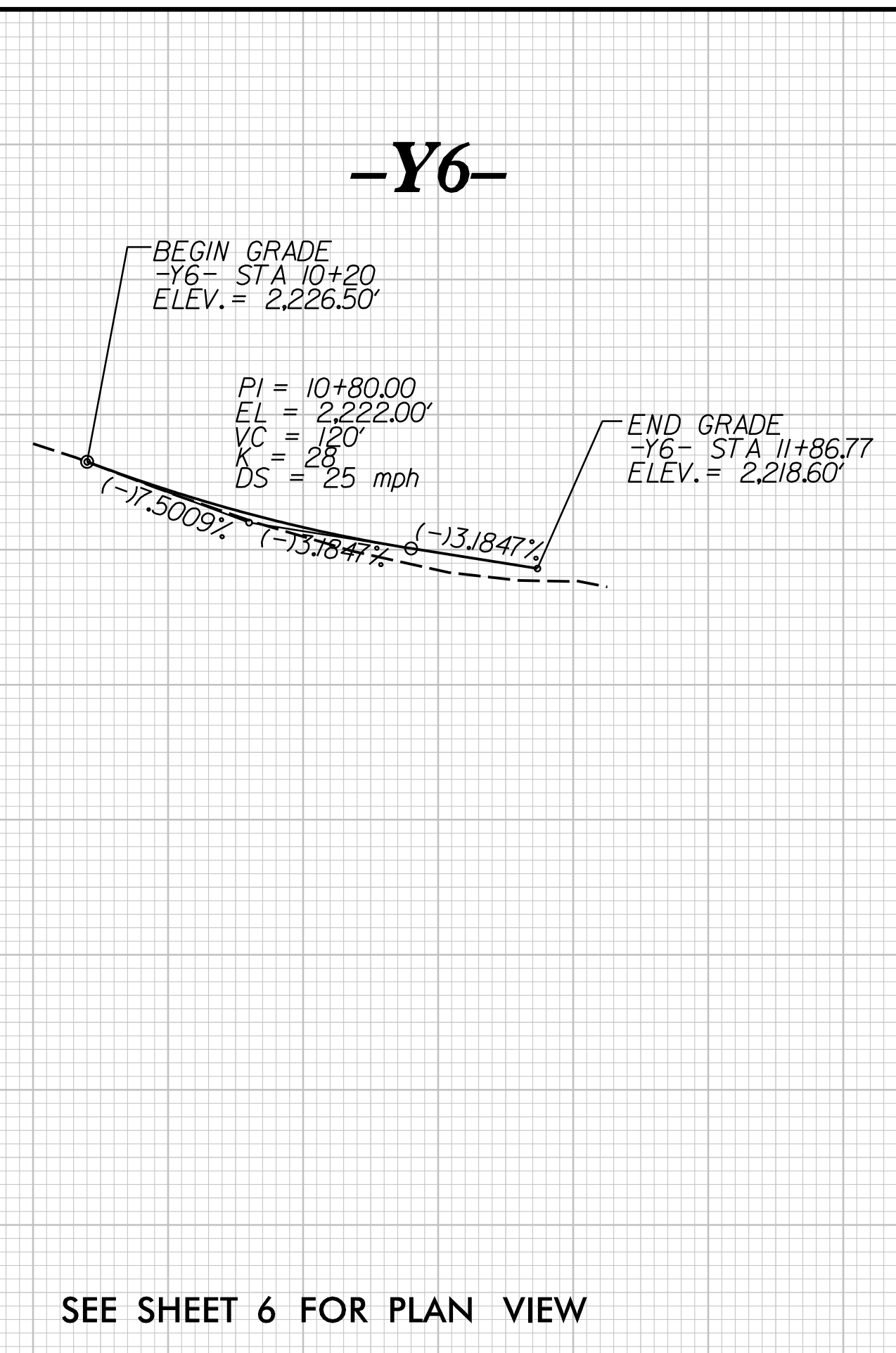
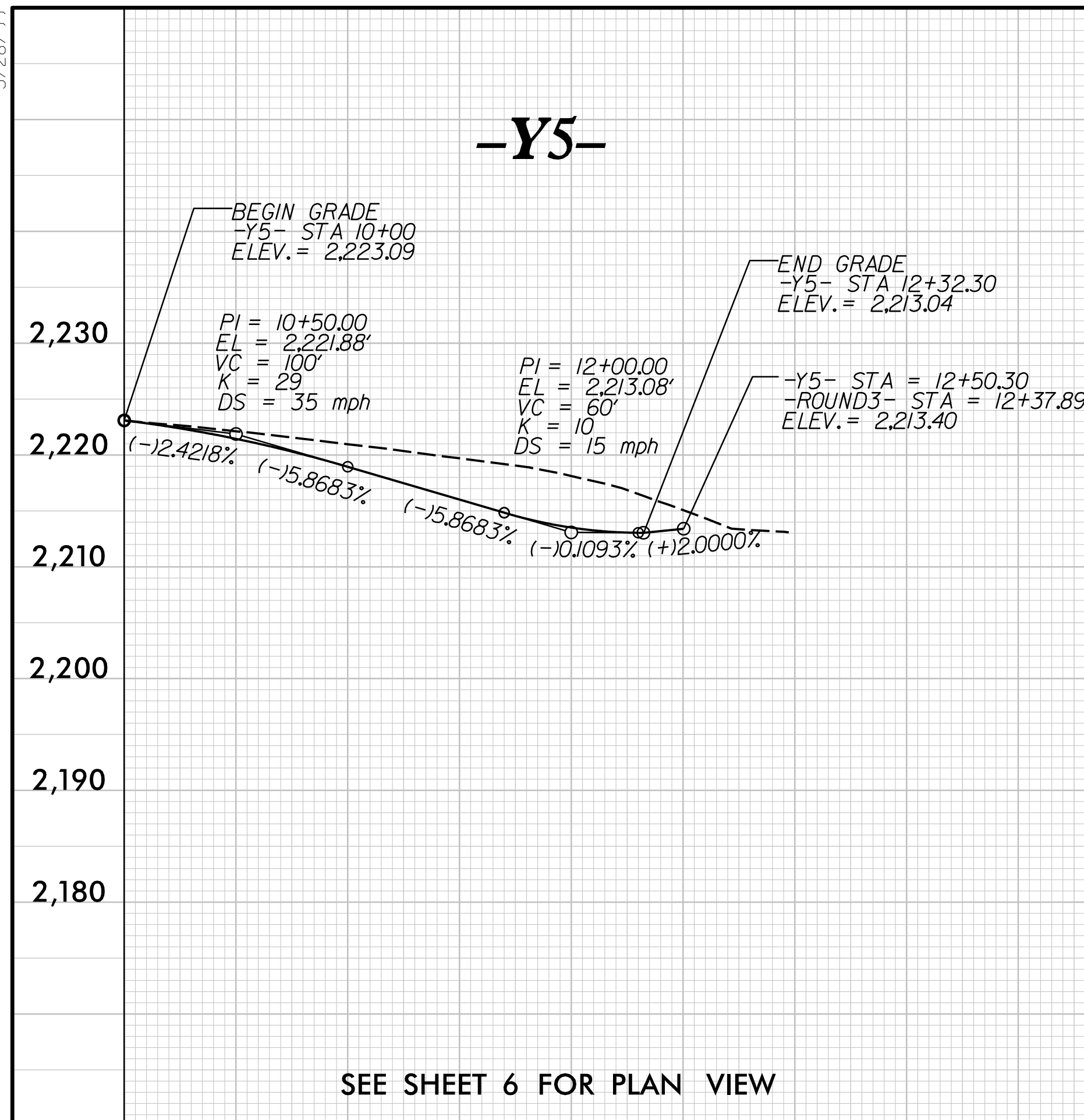
PROJECT REFERENCE NO. U-5783	SHEET NO. 16
ROADWAY DESIGN ENGINEER ARON C. CARVER Professional Engineer No. 3945 Exp. 10/2024	HYDRAULICS ENGINEER ARON C. CARVER Professional Engineer No. 3945 Exp. 10/2024

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

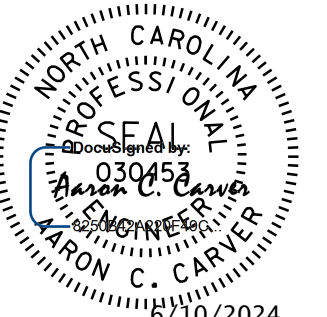
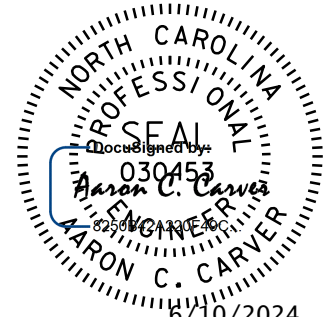


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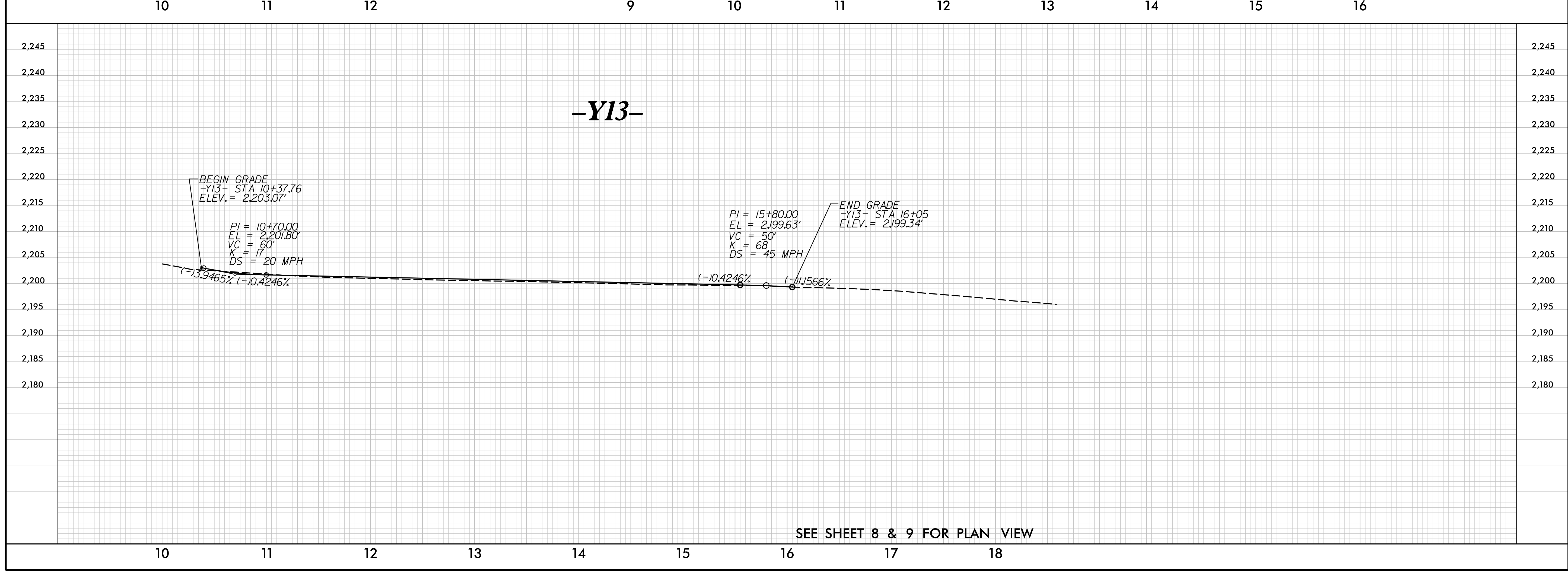
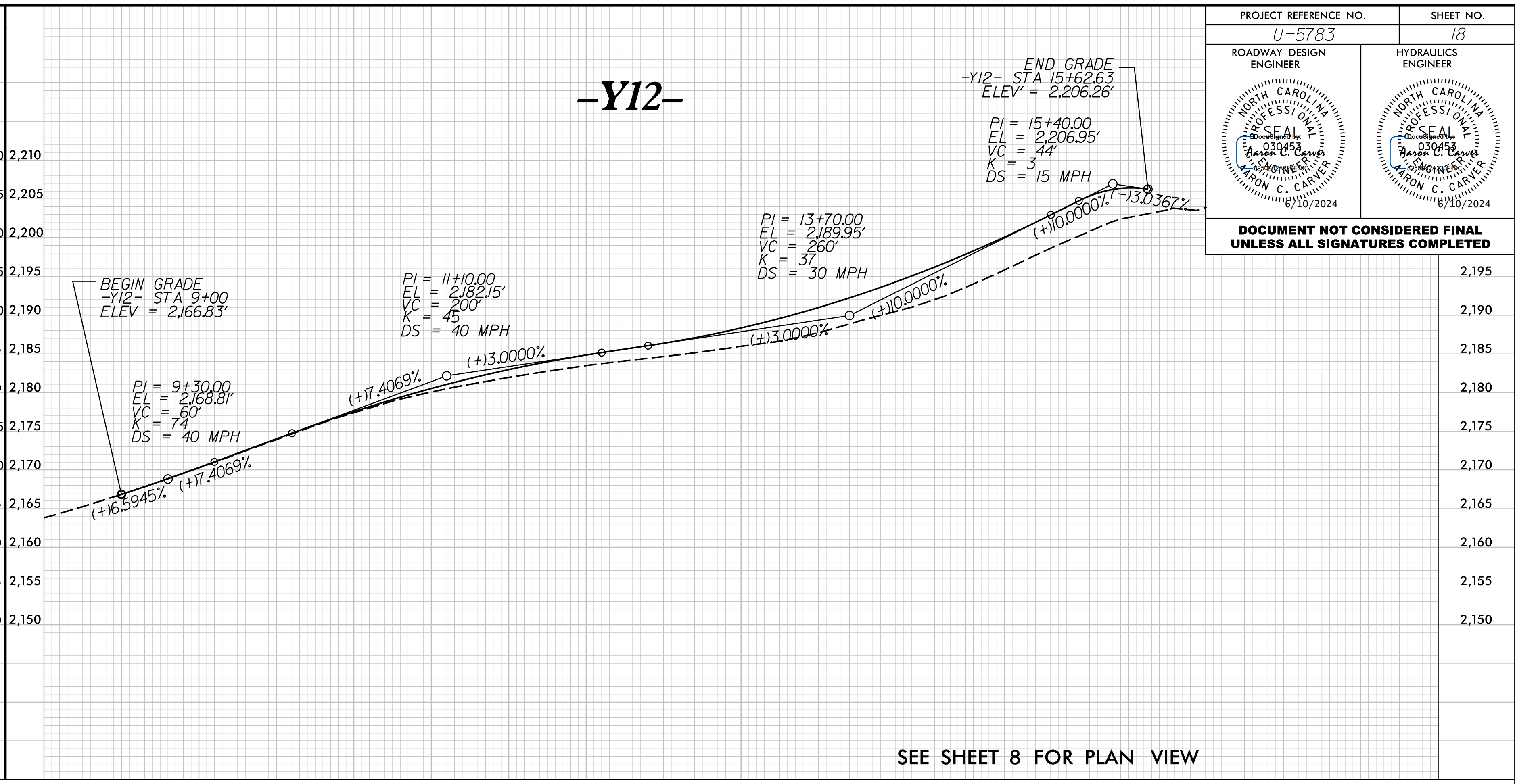
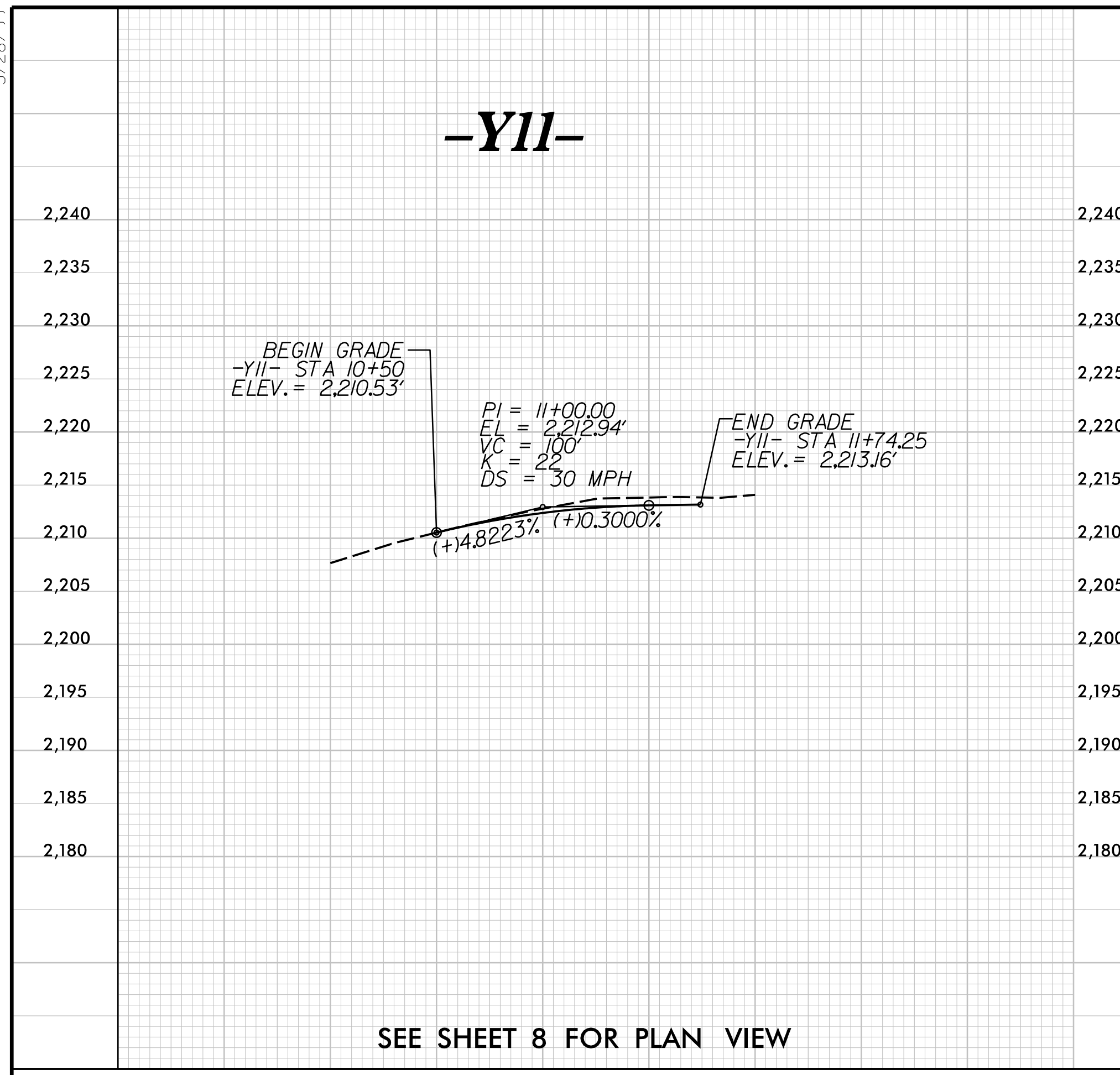
PROJECT REFERENCE NO. U-5783	SHEET NO. 17
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
	
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PROJECT REFERENCE NO. U-5783	SHEET NO. 18
ROADWAY DESIGN ENGINEER 	HYDRAULICS ENGINEER 

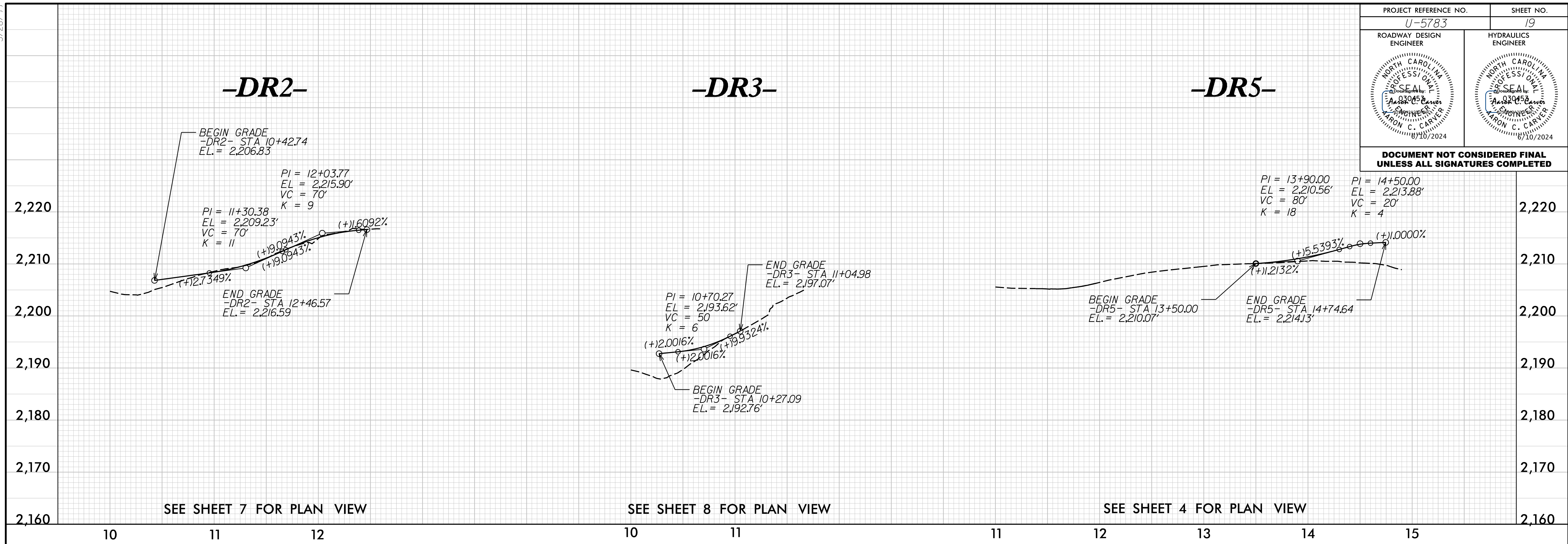
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5/28/24

PROJECT REFERENCE NO. U-5783		SHEET NO. 19
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	

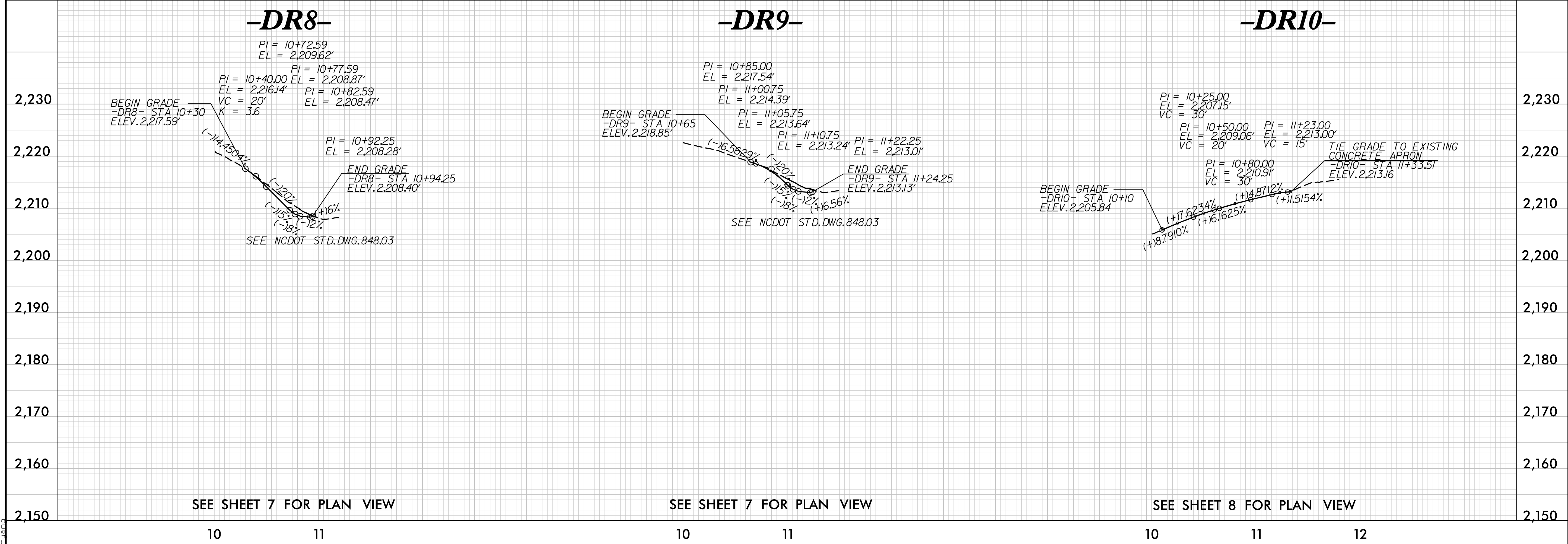
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



SEE SHEET 7 FOR PLAN VIEW

SEE SHEET 8 FOR PLAN VIEW

SEE SHEET 4 FOR PLAN VIEW



SEE SHEET 7 FOR PLAN VIEW

SEE SHEET 7 FOR PLAN VIEW

SEE SHEET 8 FOR PLAN VIEW

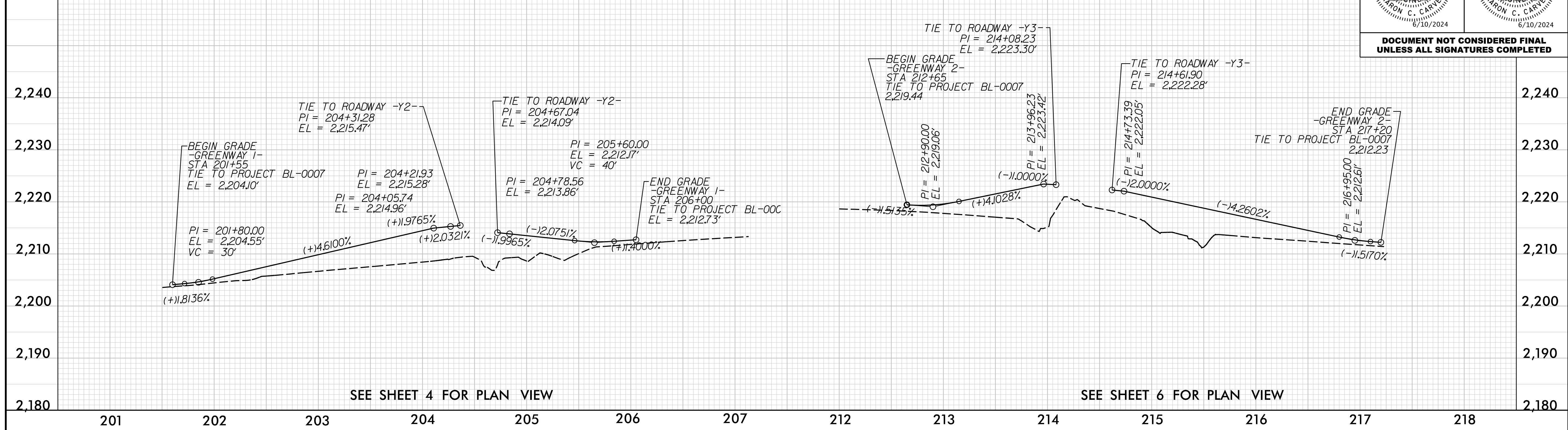
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5/28/24

PROJECT REFERENCE NO. U-5783		SHEET NO. 20	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

-GREENWAY 1-

-GREENWAY 2-



SEE SHEET 4 FOR PLAN VIEW

SEE SHEET 6 FOR PLAN VIEW

U:\Projects\3572 US 64 Widening (U-5783)\06 U-5783\Roadway\Proj\U5783_rdy_Pf1_20.dgn