

09.08/2019

See Sheet 1A For Index of Sheets

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

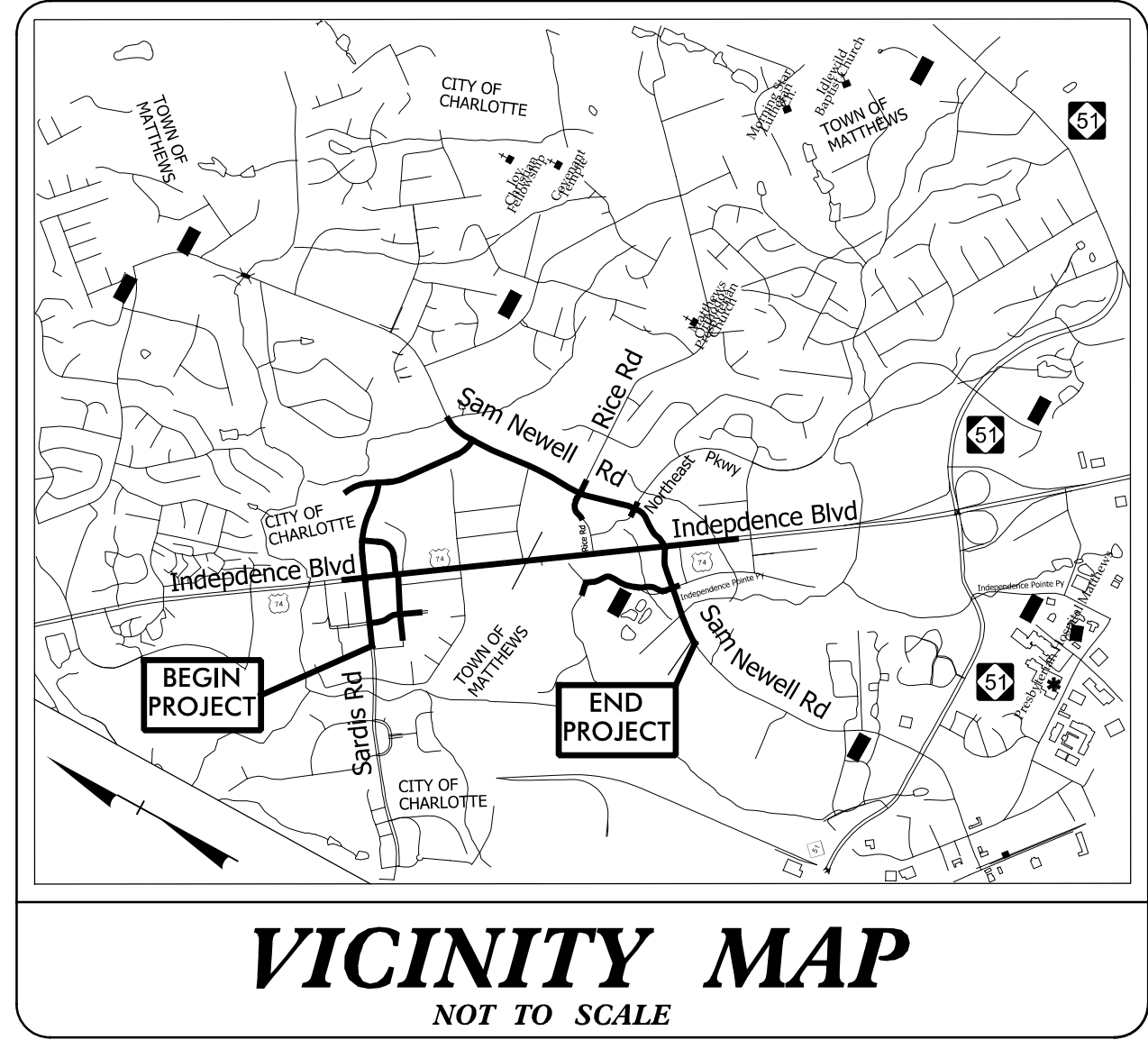
MECKLENBURG COUNTY

LOCATION: SR 3356 (SARDIS ROAD) AND SR 3168 (SAM NEWELL ROAD)
IN TOWN OF MATTHEWS AND CITY OF CHARLOTTE

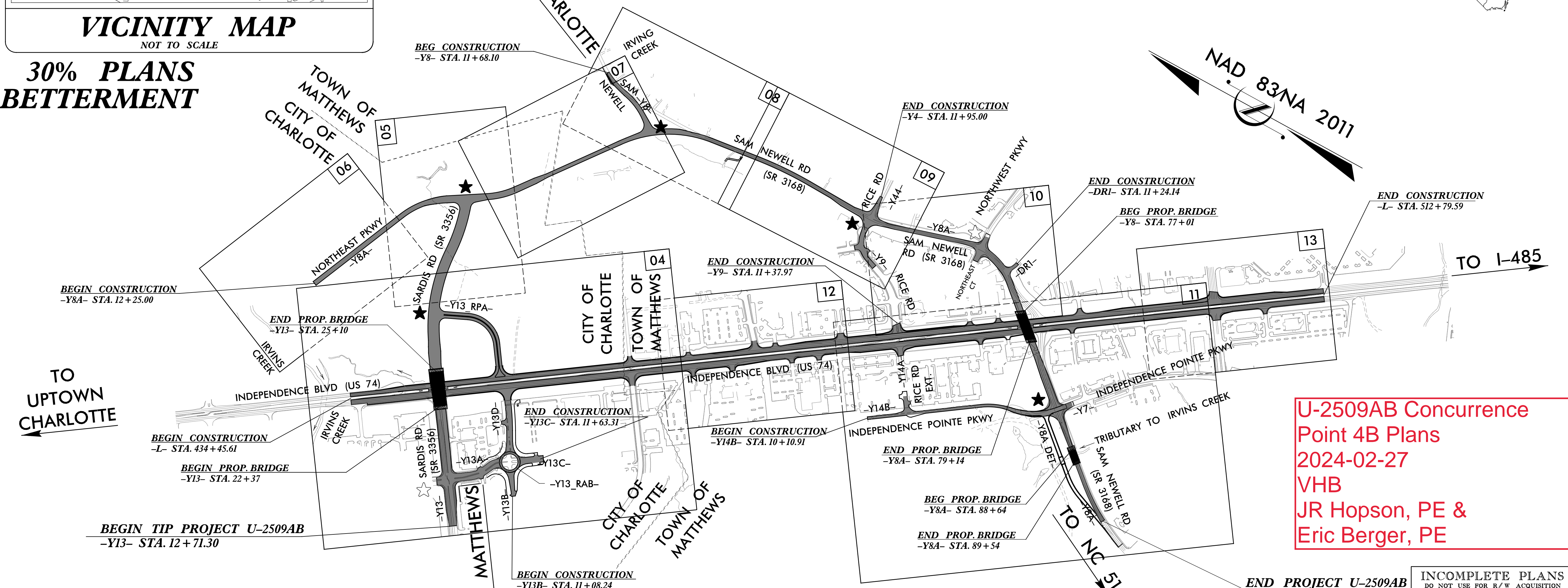
TYPE OF WORK: GRADING, DRAINAGE, WIDENING, PAVING, STRUCTURES
AND SIGNALS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-2509AB	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
38965.1.8		PE	

TIP PROJECT: U-2509AB



**30% PLANS
BETTERMENT**



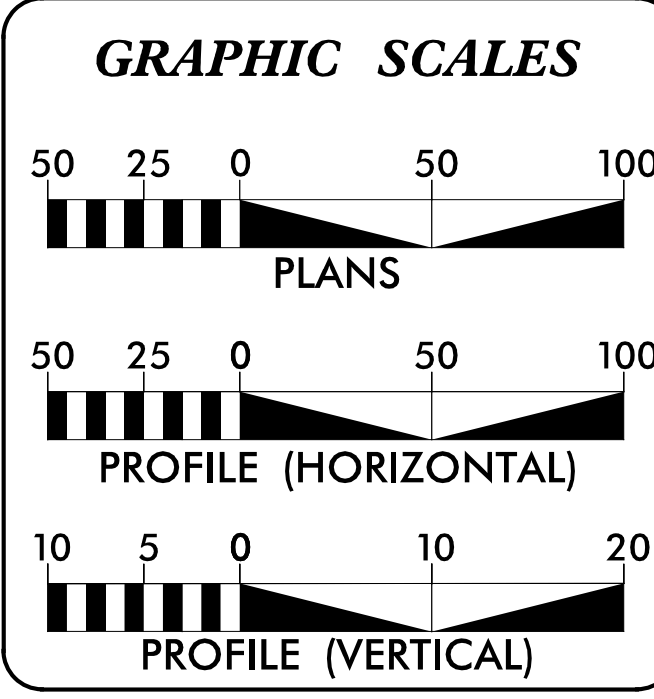
**U-2509AB Concurrence
Point 4B Plans
2024-02-27
VHB
JR Hopson, PE &
Eric Berger, PE**

THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF THE TOWN OF MATTHEWS AND CITY OF CHARLOTTE. CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD

☆ EXISTING SIGNAL TO BE MODIFIED
★ PROPOSED SIGNAL

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

CONTRACT:



DESIGN DATA (Y13)

ADT 2027 =	32,100
ADT 2047 =	39,800
K =	8 %
D =	55 %
T =	3 % *
V =	40 MPH
* TTST =	2% DUAL 1%
FUNC CLASS =	STATEWIDE DESIGN TIER

**PROJECT LENGTH
(MEASURED ALONG -L-, -Y13- & -Y8A-)**

LENGTH OF ROADWAY TIP PROJECT U-2509AB =	3.443 MI.
LENGTH OF STRUCTURE TIP PROJECT U-2509AB =	0.109 MI.
TOTAL LENGTH OF TIP PROJECT U-2509AB =	3.552 MI.

Prepared In the Office of:
vhb
940 Main Campus Drive, Suite 500
Raleigh, NC 27606
NC License No. C-3705

2024 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
JULY 31, 2024

LETTING DATE:
JULY 18, 2028

THAD F. DUNCAN, PE
PROJECT ENGINEER

MARK HUSSEY
PROJECT DESIGN ENGINEER

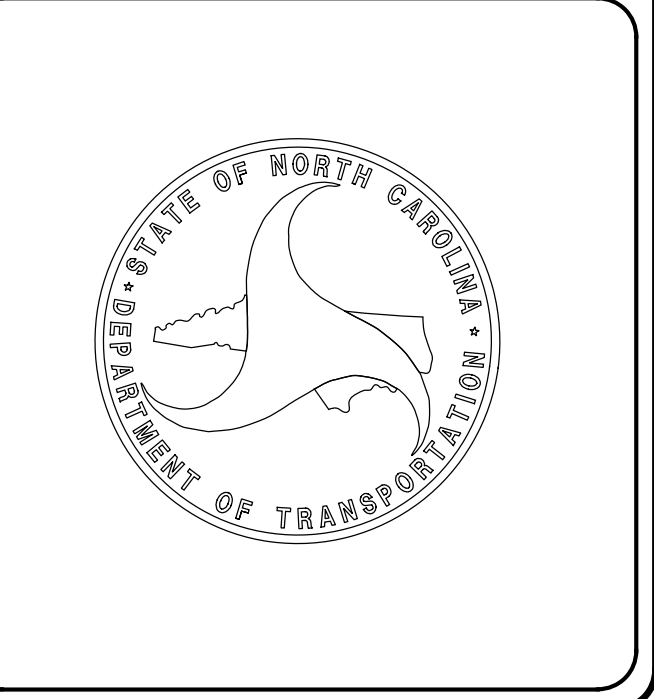
BRYAN KEY, PE
NCDOT CONTACT

HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE: _____ P.E.



2/22/2024
U2509AB_uh_rdy_v2_TSH.dgn
jhopson

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	-S-S-
Potential Contamination Area: Soil	-S-S-
Known Contamination Area: Water	-W-W-
Potential Contamination Area: Water	-W-W-
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	↓
Proposed Lateral, Tail, Head Ditch	→
False Sump	▽

RAILROADS:

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

RIGHT OF WAY & PROJECT CONTROL:

Primary Horiz Control Point	○
Primary Horiz and Vert Control Point	●
Secondary Horiz and Vert Control Point	◆
Vertical Benchmark	⊕
Existing Right of Way Monument	△
Proposed Right of Way Monument (Rebar and Cap)	▲
Proposed Right of Way Monument (Concrete)	⊕
Existing Permanent Easement Monument	◇
Proposed Permanent Easement Monument (Rebar and Cap)	◆
Existing C/A Monument	△
Proposed C/A Monument (Rebar and Cap)	▲
Proposed C/A Monument (Concrete)	⊕
Existing Right of Way Line	_____
Proposed Right of Way Line	_____
Existing Control of Access Line	_____
Proposed Control of Access Line	_____
Proposed ROW and CA Line	_____
Existing Easement Line	_____
Proposed Temporary Construction Easement	E
Proposed Temporary Drainage Easement	TDE
Proposed Permanent Drainage Easement	PDE
Proposed Permanent Drainage/Utility Easement	DUE
Proposed Permanent Utility Easement	PUE
Proposed Temporary Utility Easement	TUE
Proposed Aerial Utility Easement	AUE

ROADS AND RELATED FEATURES:

Existing Edge of Pavement	_____
Existing Curb	_____
Proposed Slope Stakes Cut	C
Proposed Slope Stakes Fill	F
Proposed Curb Ramp	CR
Existing Metal Guardrail	T
Proposed Guardrail	T
Existing Cable Guiderail	□
Proposed Cable Guiderail	□
Equality Symbol	⊕
Pavement Removal	⊗
VEGETATION:	
Single Tree	○
Single Shrub	○
Hedge	_____

Woods Line	_____
Orchard	○
Vineyard	□

EXISTING STRUCTURES:

MAJOR:	
Bridge, Tunnel or Box Culvert	CONC
Bridge Wing Wall, Head Wall and End Wall	CONC WW
MINOR:	
Head and End Wall	CONC HW
Pipe Culvert	_____
Footbridge	_____
Drainage Box: Catch Basin, DI or JB	CB
Paved Ditch Gutter	_____
Storm Sewer Manhole	⊕
Storm Sewer	S

UTILITIES:

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

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

TELEPHONE:

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

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

GAS:

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

SANITARY SEWER:

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

MISCELLANEOUS:

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

6/2/2019

PAVEMENT SCHEDULE <small>AWAITING PAVEMENT DESIGN</small>	
C1	1.5" S9.5C
C3	3" S9.5C
C4	VAR. DEPTH S9.5C
D1	4" I19.0C
D2	VAR. DEPTH I19.0C,
E1	5" B25.0C
R1	2'-6" CONCRETE CURB AND GUTTER.
R2	5" MONOLITHIC ISLAND
S1	SIDEWALK
S2	MULTIUSE PATH
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.
V1	MILLING 1.5" DEPTH.
W	WEDGING

NOTES TO CONTRACTOR

For surface mixes over 1" in thickness, mill the existing pavement in accordance with the following sketch as directed by the Engineer.

Locations shall include ties into existing concrete pavement, at bridge approaches where the bridge will not be resurfaced, and at the beginning and ending point of each resurfacing map.

Perform the work in accordance with Section 607 of the January 2018 North Carolina Department of Transportation Standard Specifications for Roads and Structures. Resurfacing will be accomplished at the same time as the milling operation.

MILLING DETAIL PROFILE VIEW

VARIES 30' TO ??

AS DIRECTED BY ENGINEER

BEGIN OR END CONSTRUCTION

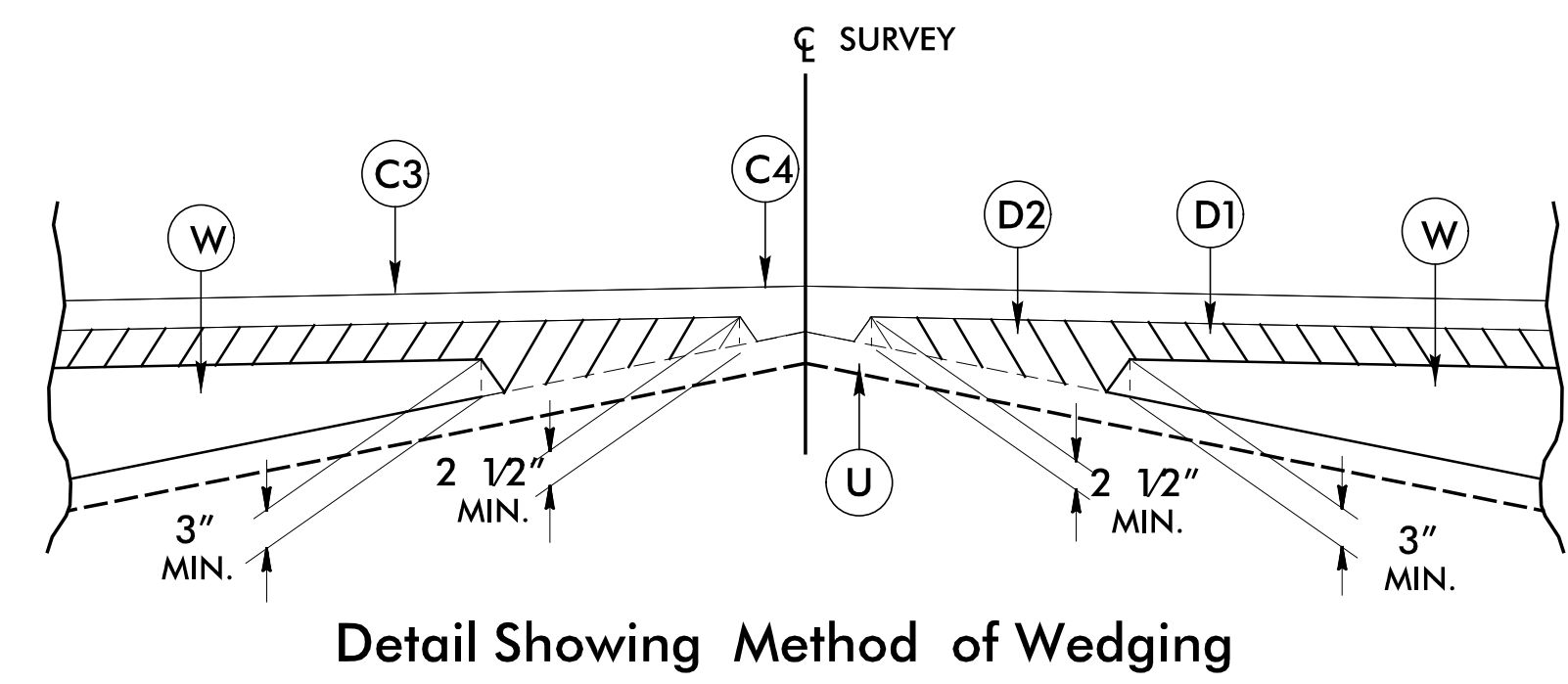
W

C1

U

VAR. THICKNESS OF SURFACE COURSE

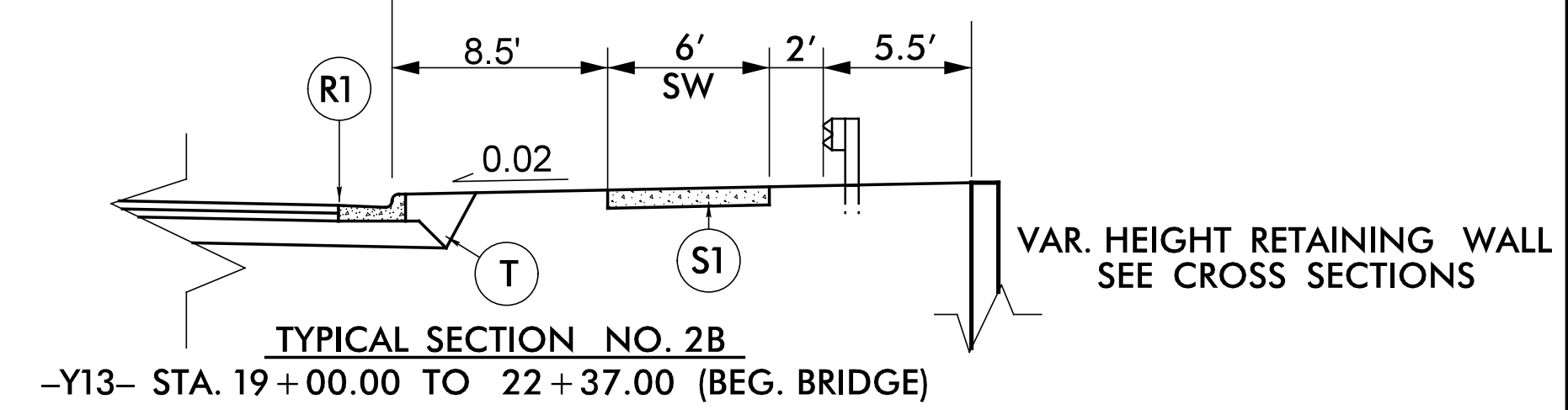
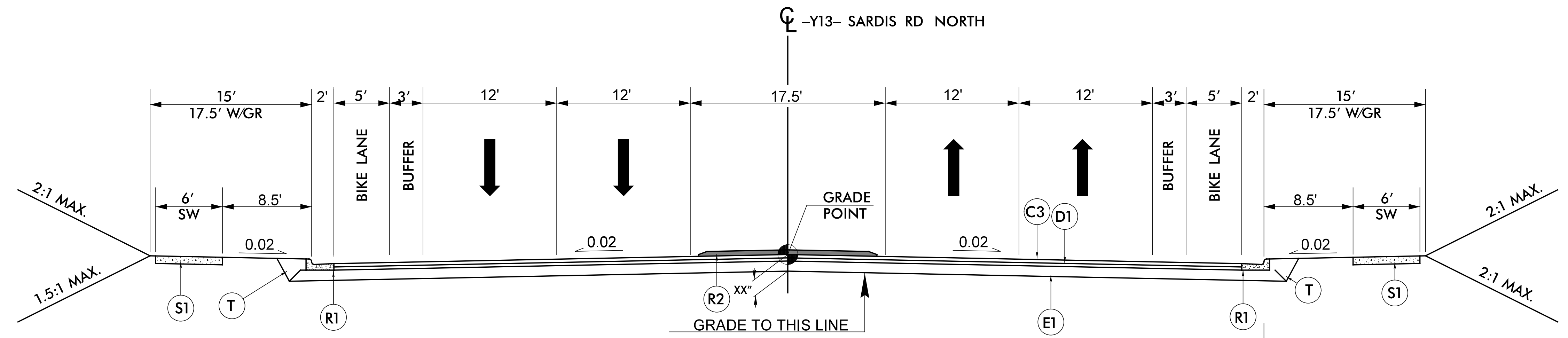
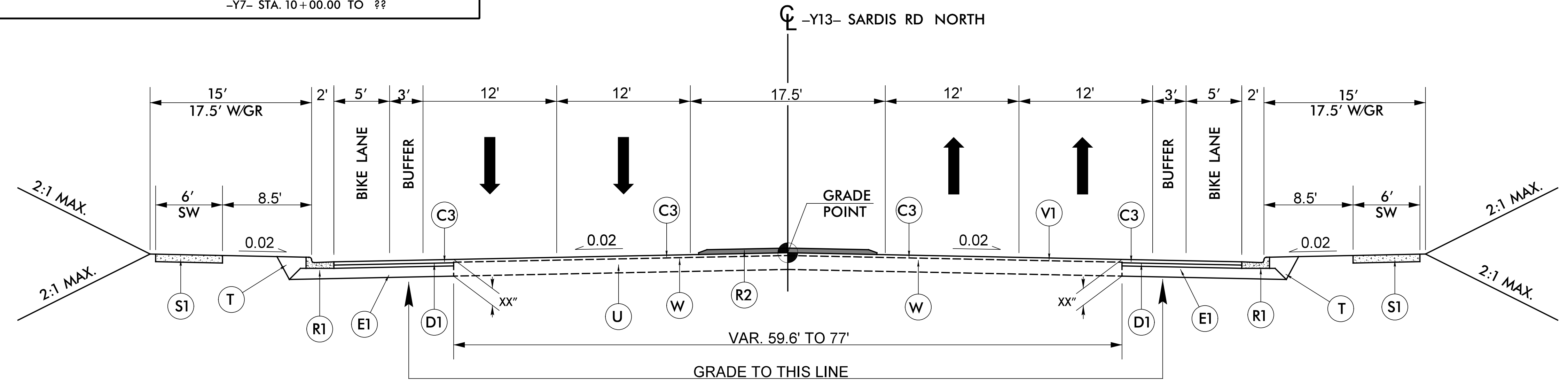
-Y13- STA. 12+71.30 TO ??
 -Y8B- STA. 14+70.00 TO ??
 -Y9- STA. 16+33.51 TO ??
 -Y44- STA. 11+95.00 TO ??
 -Y8C- STA. 10+00.00 TO ??
 -Y8D- STA. 12+94.50 TO ??
 -Y7- STA. 10+00.00 TO ??



PROJECT REFERENCE NO. U-2509AB	SHEET NO. 2A-1
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

vhb

VHB Engineering NC, P.C. (C-3705)
940 Main Campus Drive, Suite 500
Raleigh, NC 27606

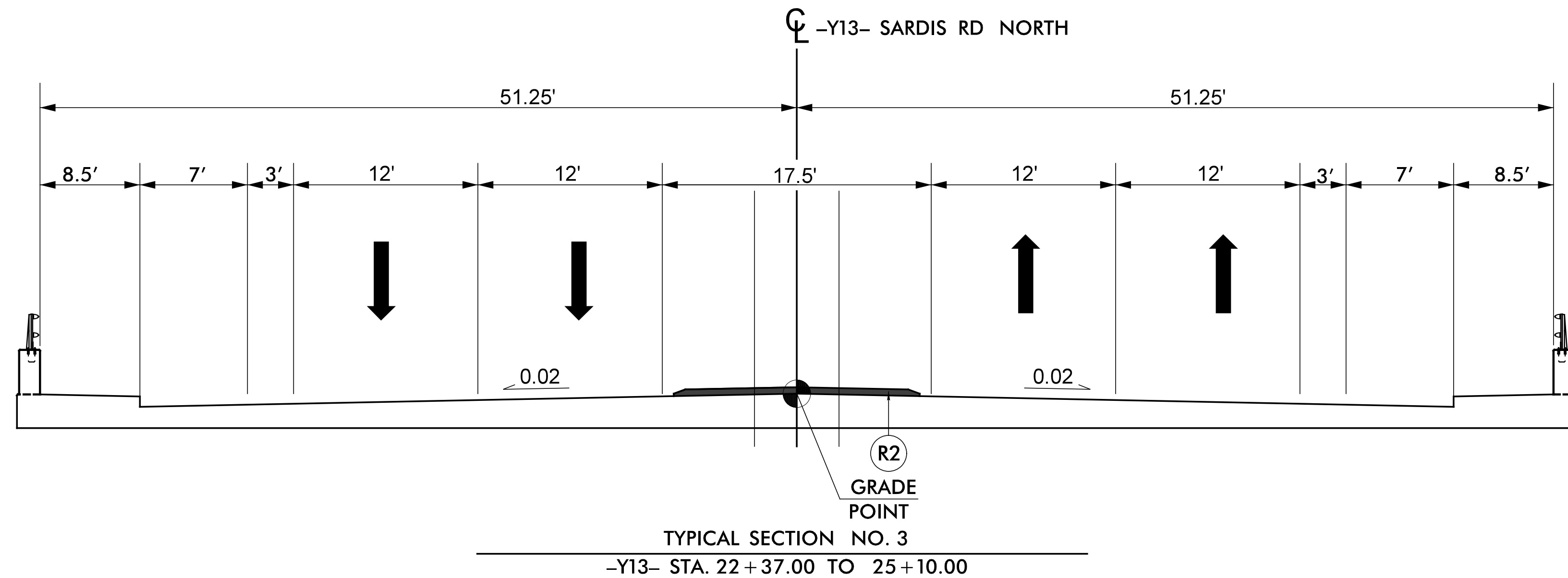


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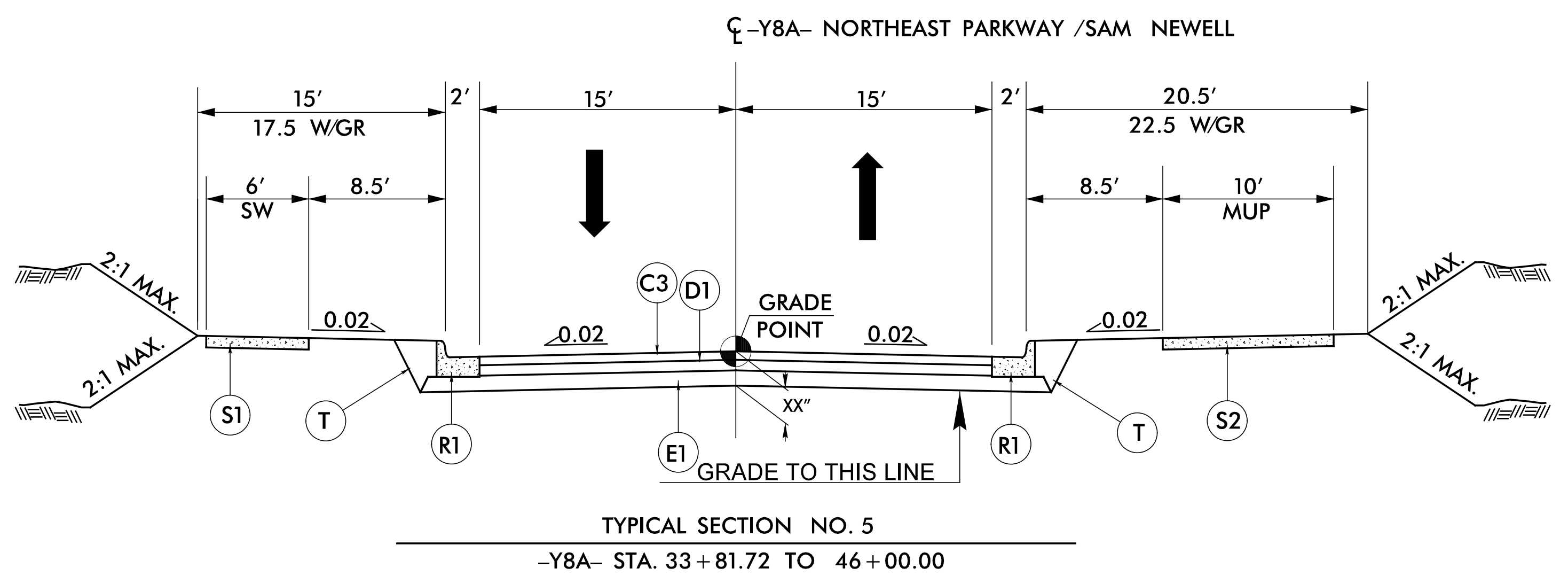
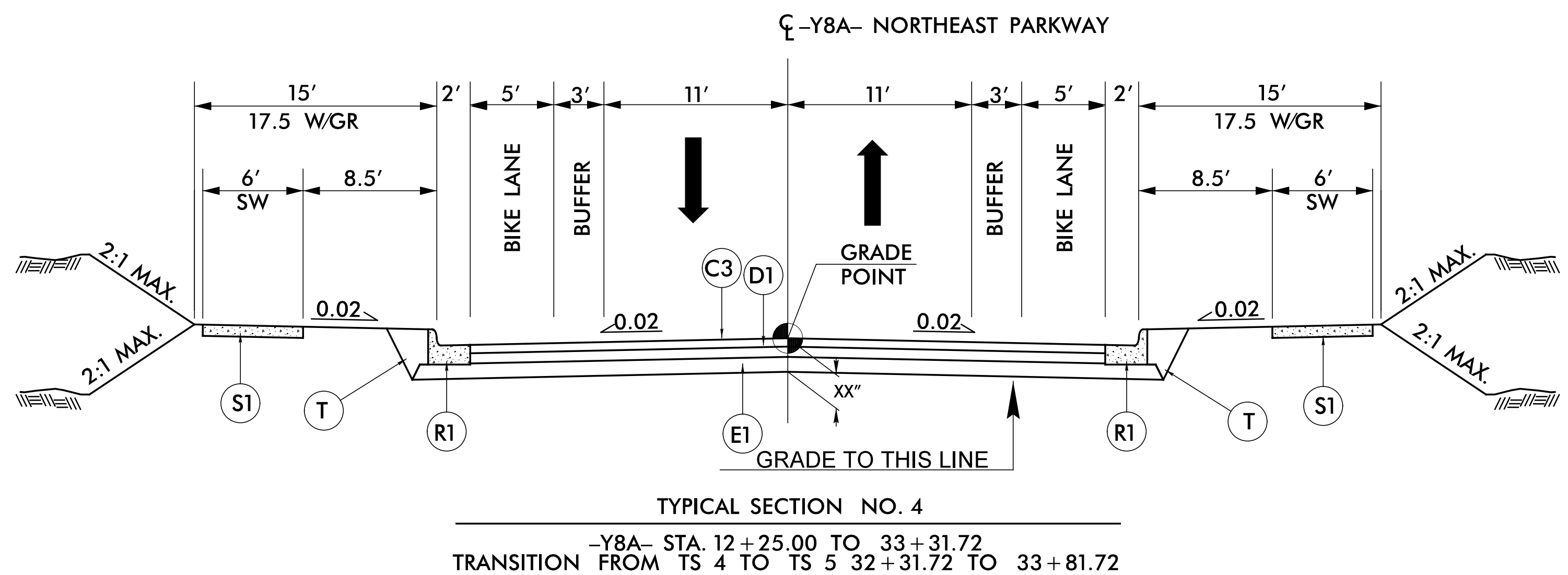
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PAVEMENT SCHEDULE	
AWAITING PAVEMENT DESIGN	
C1	1.5" S9.5C
C3	3" S9.5C
C4	VAR. DEPTH S9.5C
D1	4" I19.0C
D2	VAR. DEPTH I19.0C,
E1	5" B25.0C
R1	2'-6" CONCRETE CURB AND GUTTER.
R2	5" MONOLITHIC ISLAND
S1	SIDEWALK
S2	MULTIUSE PATH
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.
V1	MILLING 1.5" DEPTH.
W	WEDGING

PROJECT REFERENCE NO. <i>U-2509AB</i>	SHEET NO. <i>2A-2</i>
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



NOTE: RAIL TO BE DETERMINED BY STRUCTURES.
BIKE AND PEDESTRIAN SAFE RAIL REQUIRED.



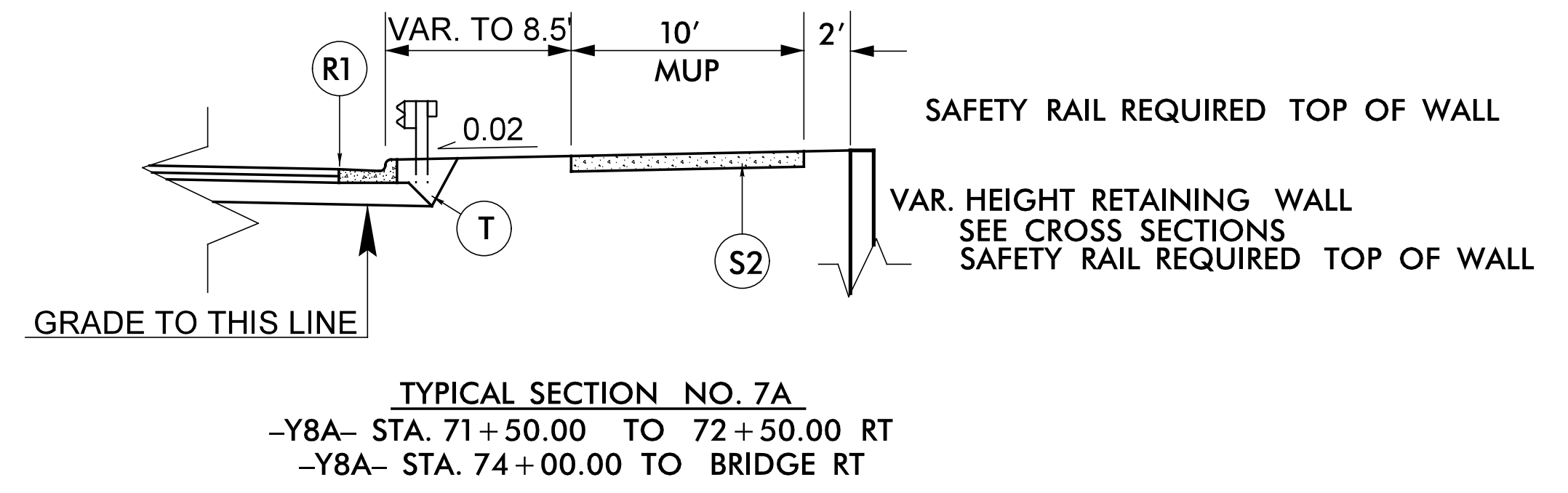
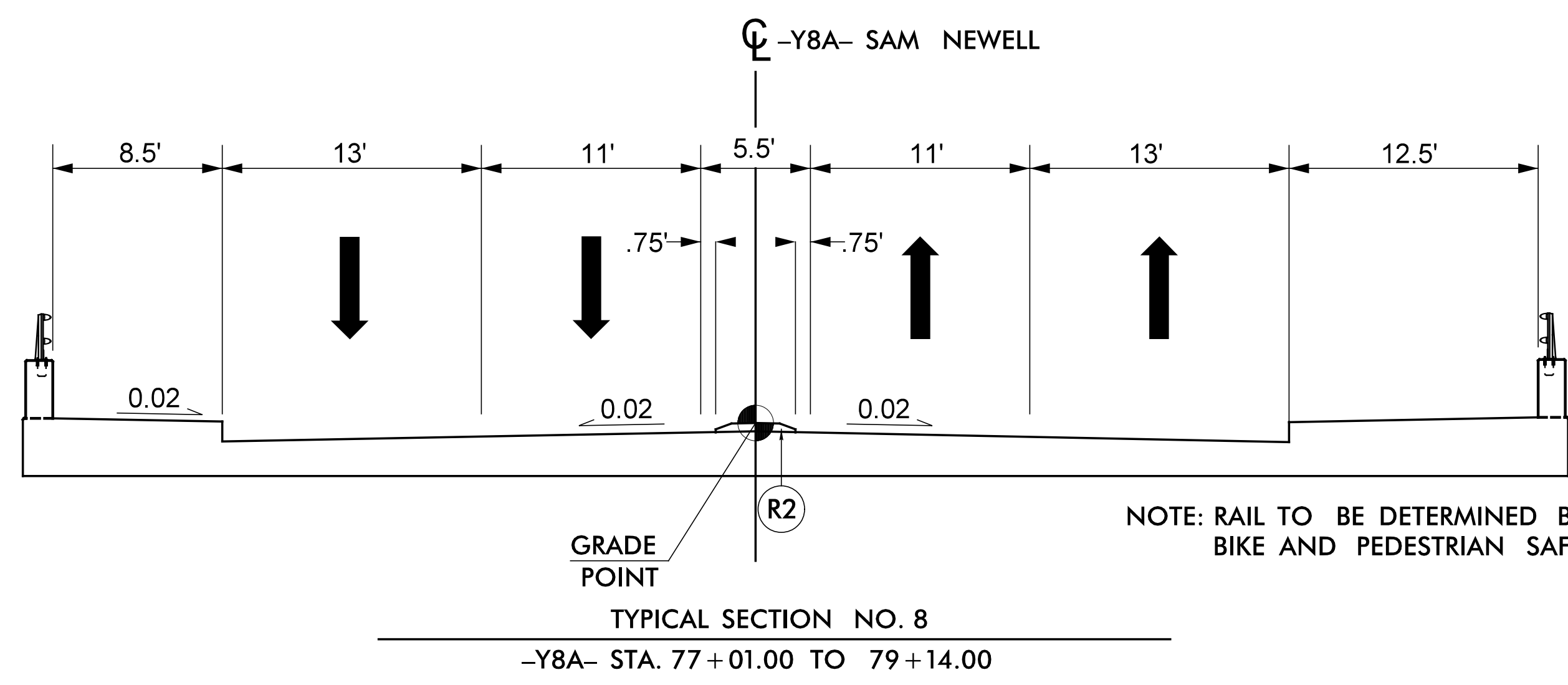
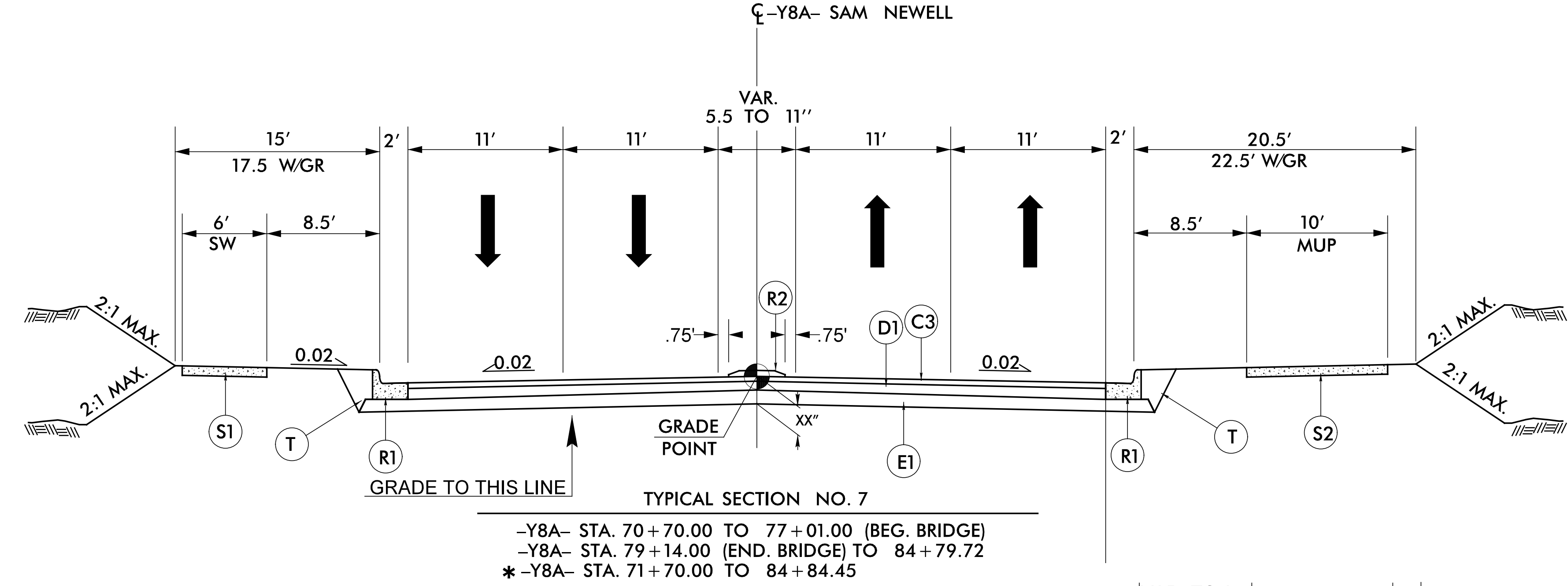
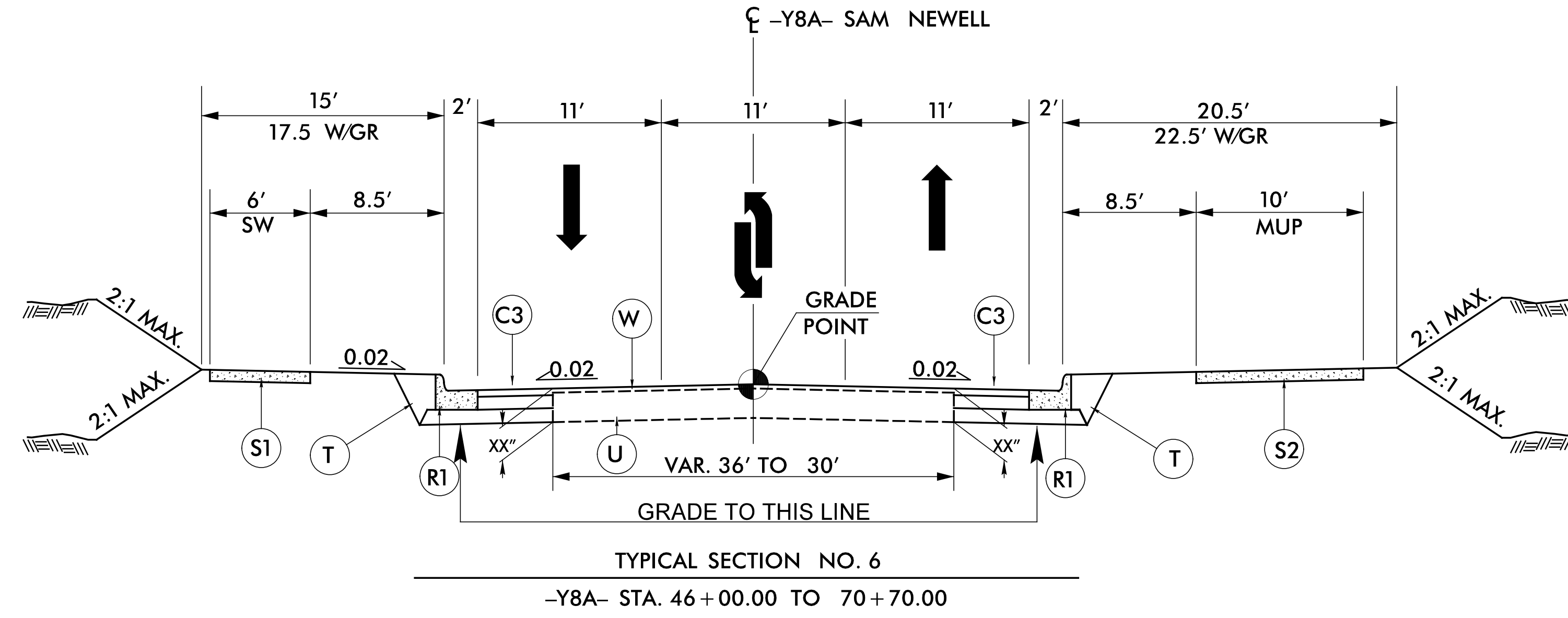
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6/2/99

PAVEMENT SCHEDULE
AWAITING PAVEMENT DESIGN

C1	1.5" S9.5C
C3	3" S9.5C
C4	VAR. DEPTH S9.5C
D1	4" I19.0C
D2	VAR. DEPTH I19.0C,
E1	5" B25.0C
R1	2'-6" CONCRETE CURB AND GUTTER.
R2	5" MONOLITHIC ISLAND
S1	SIDEWALK
S2	MULTIUSE PATH
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.
V1	MILLING 1.5" DEPTH.
W	WEDGING

PROJECT REFERENCE NO. U-2509AB	SHEET NO. 2A-3
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



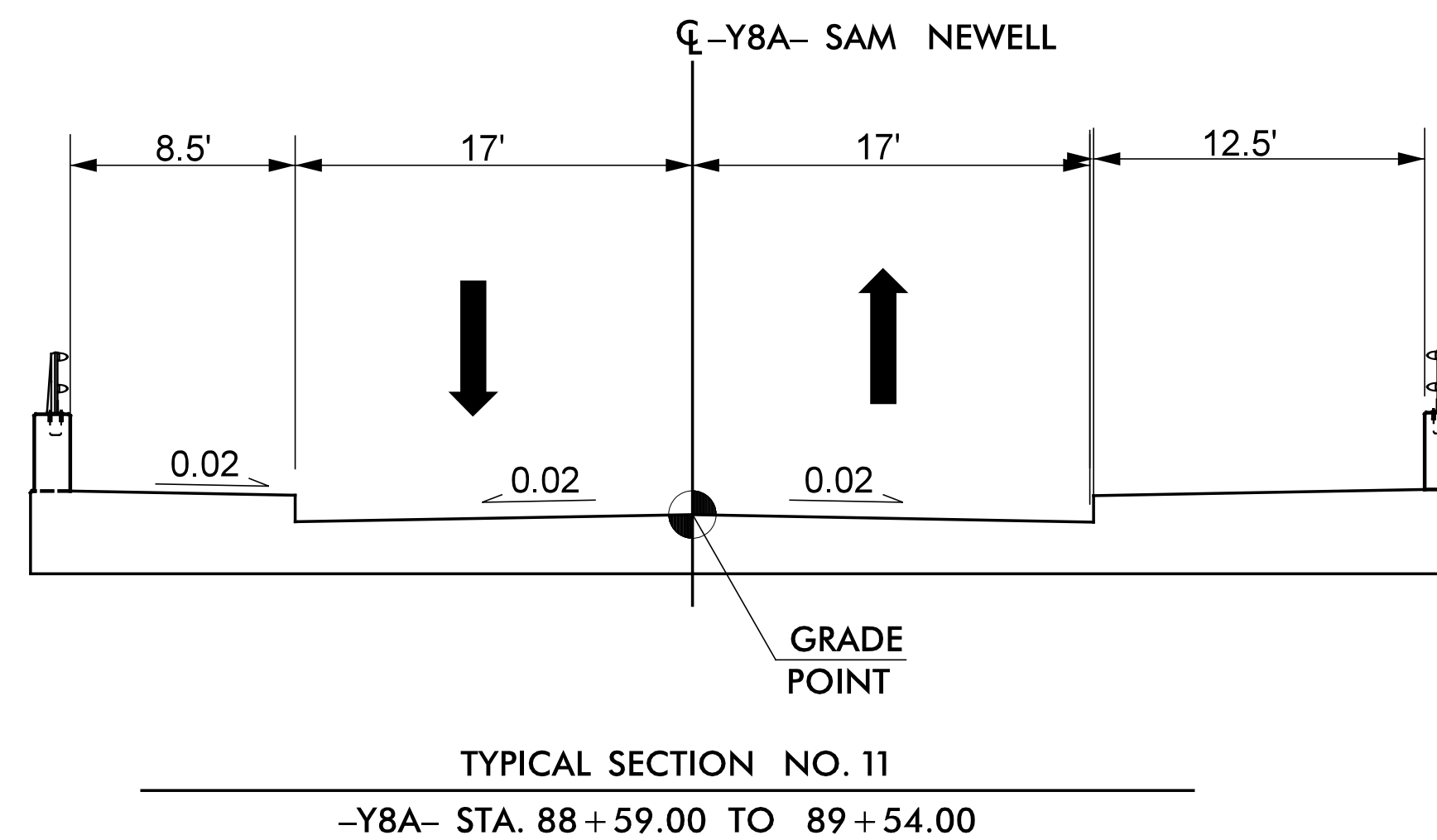
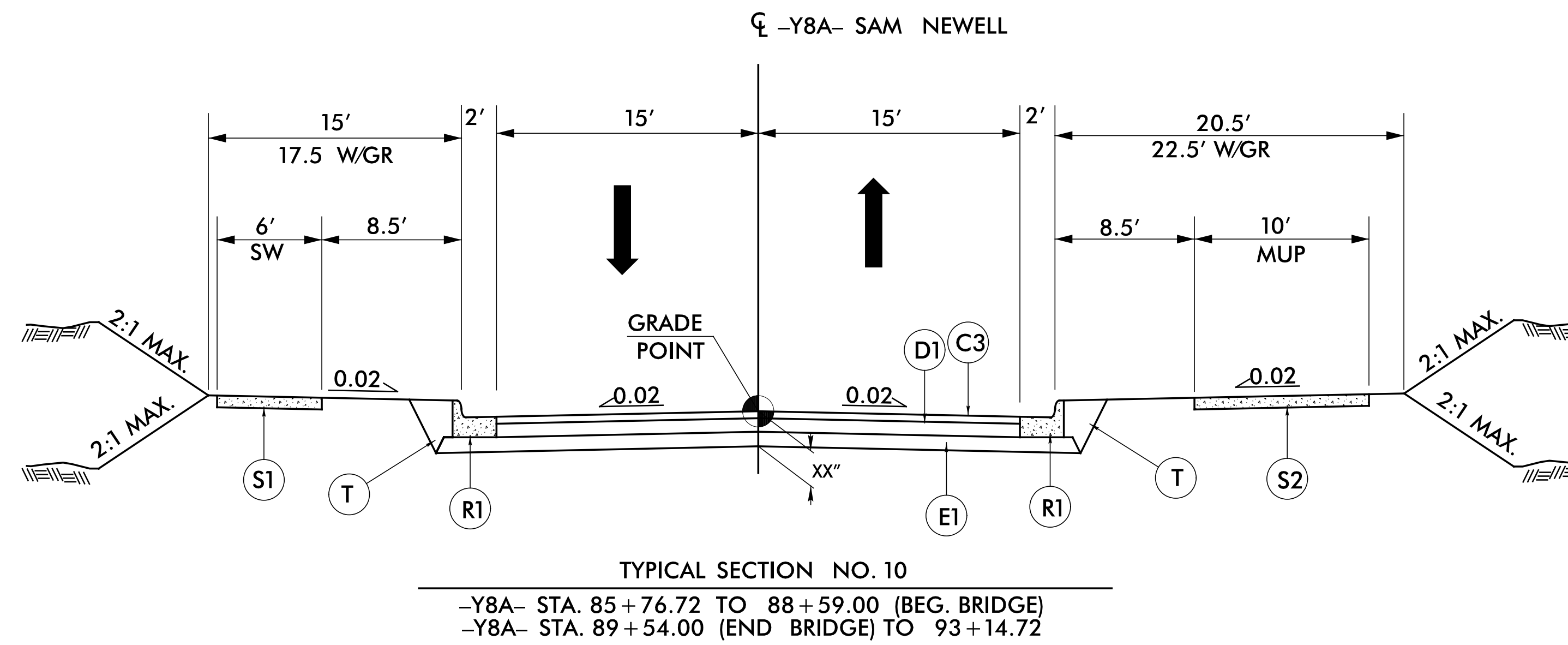
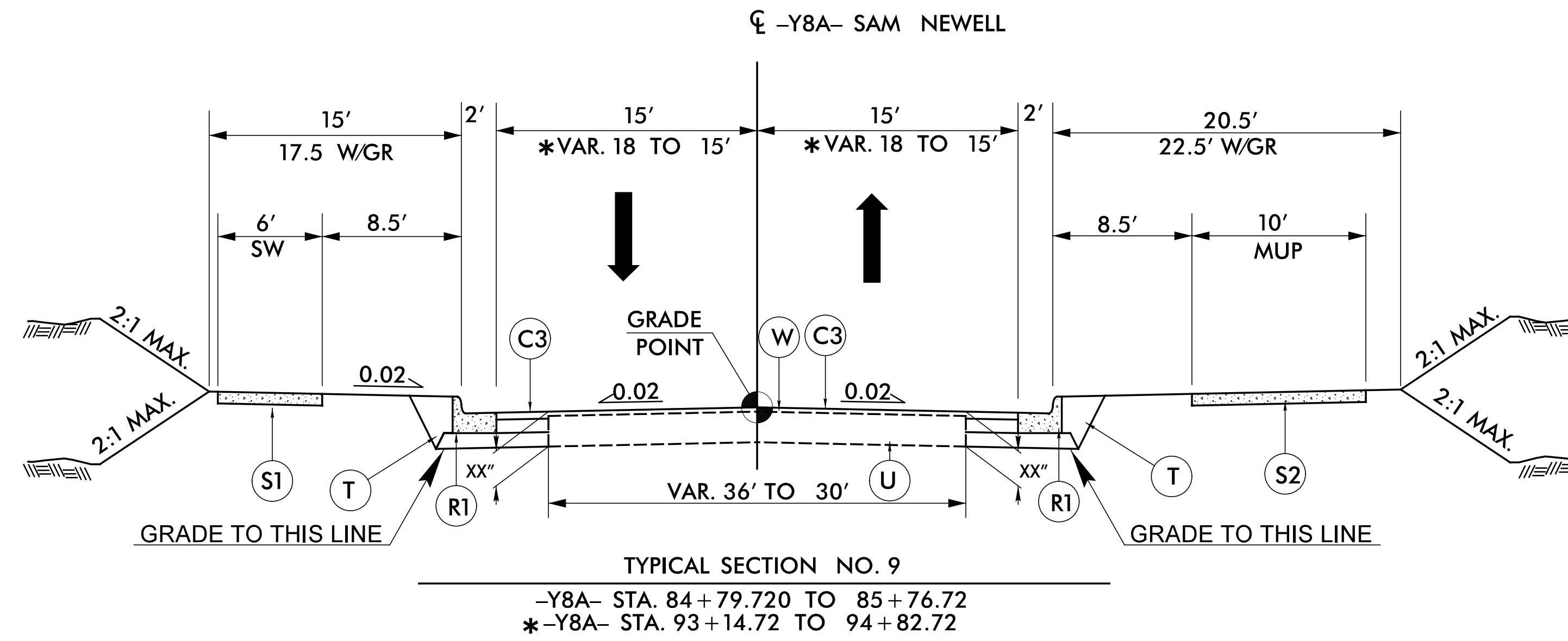
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BIKE AND PEDESTRIAN SAFE RAIL REQUIRED.

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6/2/99

PAVEMENT SCHEDULE	
AWAITING PAVEMENT DESIGN	
C1	1.5" S9.5C
C3	3" S9.5C
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T	EARTH MATERIAL.
U	EXISTING PAVEMENT.
V1	MILLING 1.5" DEPTH.
W	WEDGING

PROJECT REFERENCE NO. U-2509AB	SHEET NO. 2A-4
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



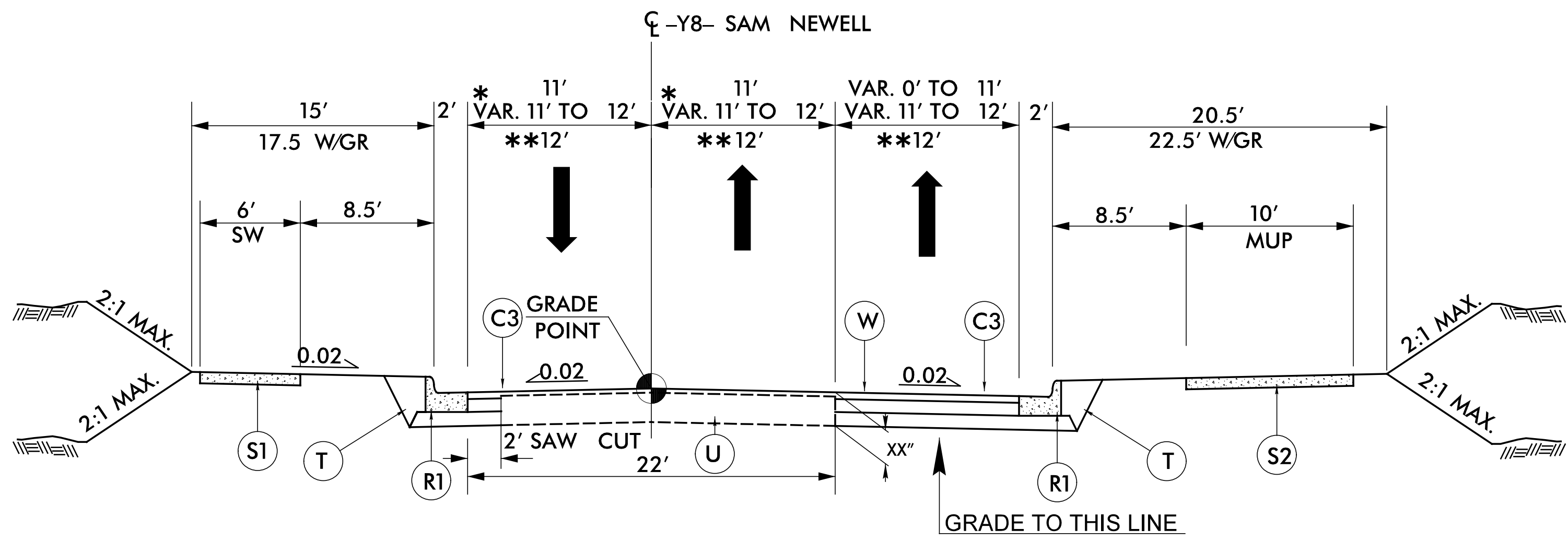
NOTE: RAIL TO BE DETERMINED BY STRUCTURES.
BIKE AND PEDESTRIAN SAFE RAIL REQUIRED.

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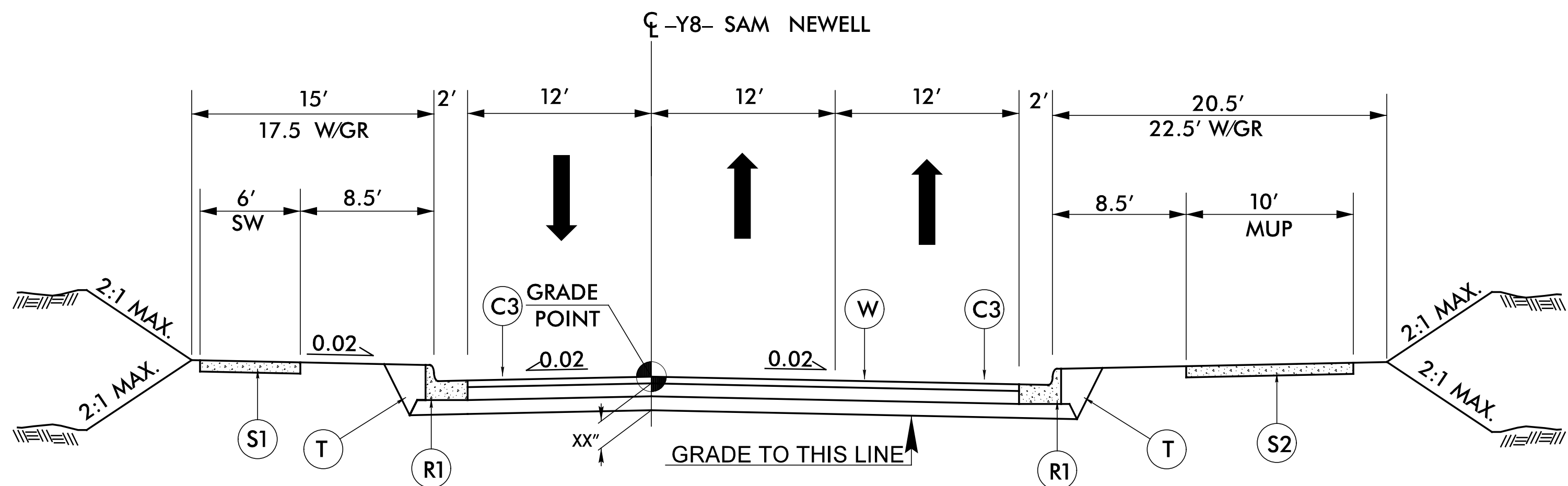
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PAVEMENT SCHEDULE	
AWAITING PAVEMENT DESIGN	
C1	1.5" S9.5C
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C4	VAR. DEPTH S9.5C
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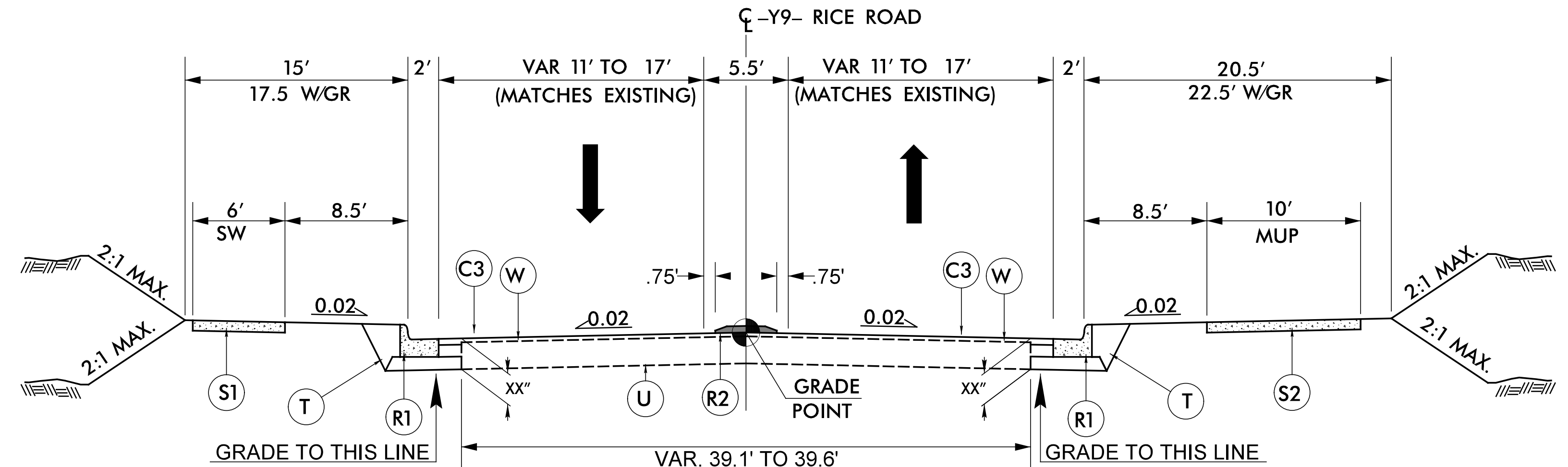
PROJECT REFERENCE NO. U-2509AB	SHEET NO. 2A-5
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
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TYPICAL SECTION NO. 12
-Y8- STA. 11+68.10 TO 15+11.00



TYPICAL SECTION NO. 13
-Y8- STA. 15+11.00 TO 17+54.38



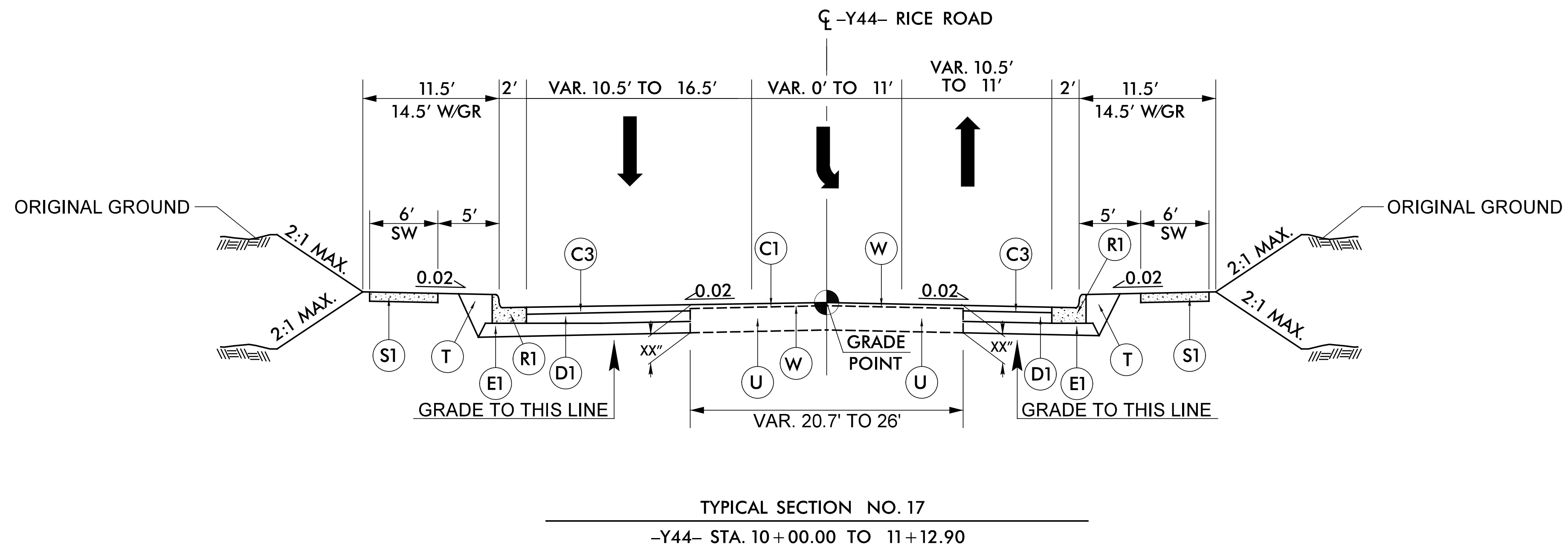
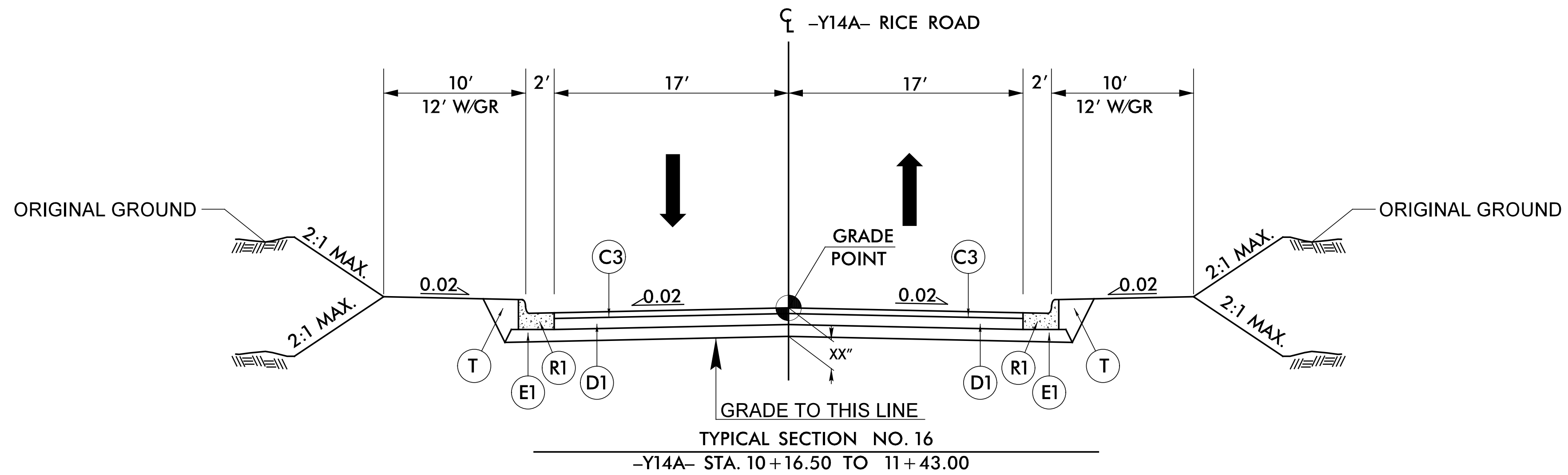
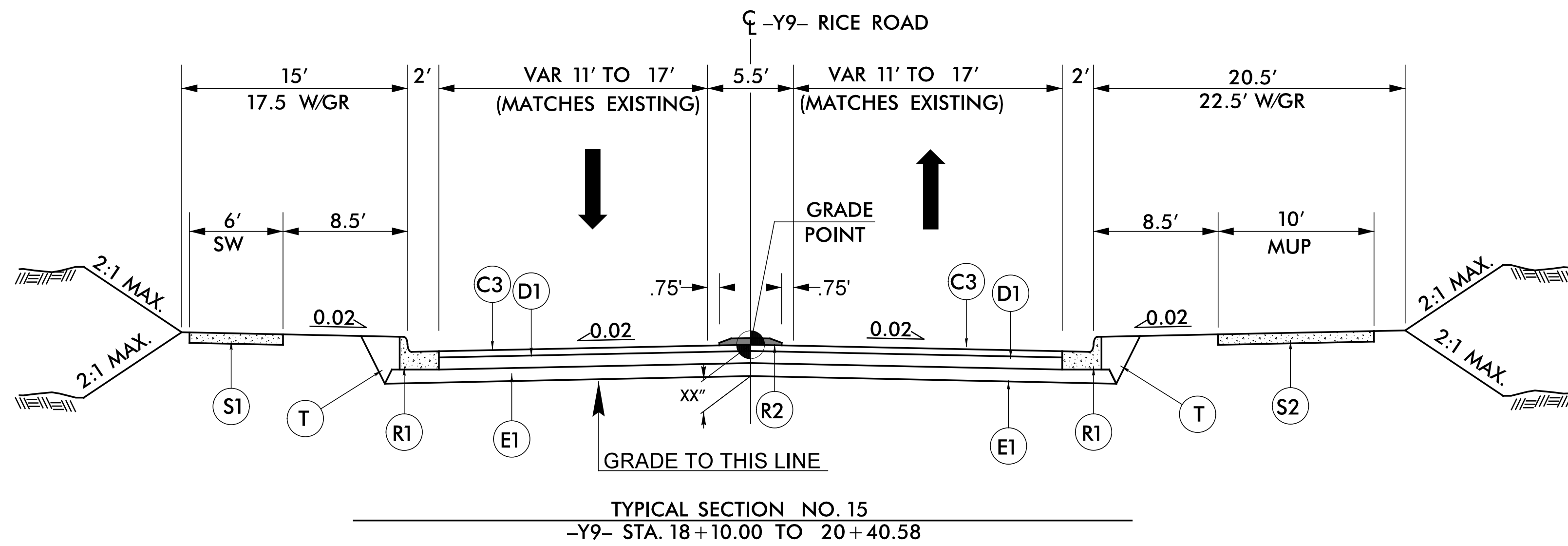
TYPICAL SECTION NO. 14
-Y9- STA. 16+33.51 TO 18+10.00

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L.L.T. - tujp.dgn
ibossco

6/2/99

PAVEMENT SCHEDULE	
AWAITING PAVEMENT DESIGN	
C1	1.5" S9.5C
C3	3" S9.5C
C4	VAR. DEPTH S9.5C
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S1	SIDEWALK
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T	EARTH MATERIAL.
U	EXISTING PAVEMENT.
V1	MILLING 1.5" DEPTH.
W	WEDGING

PROJECT REFERENCE NO. U-2509AB	SHEET NO. 2A-6
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
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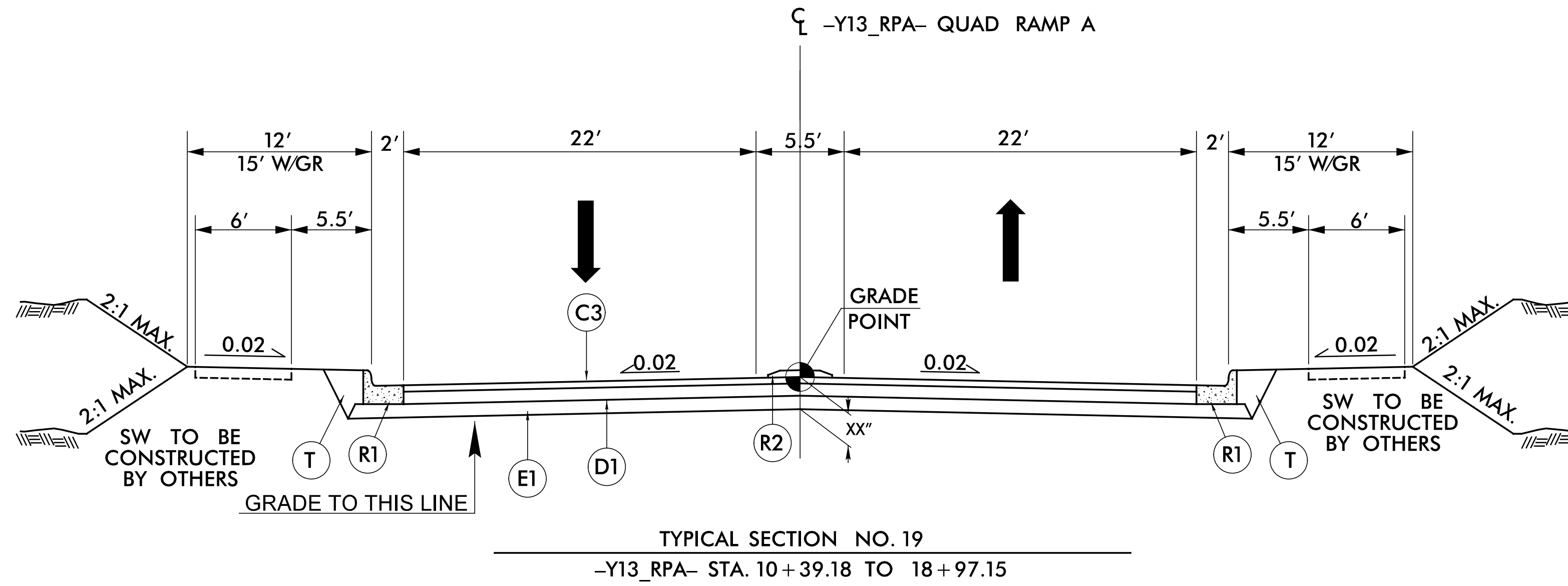
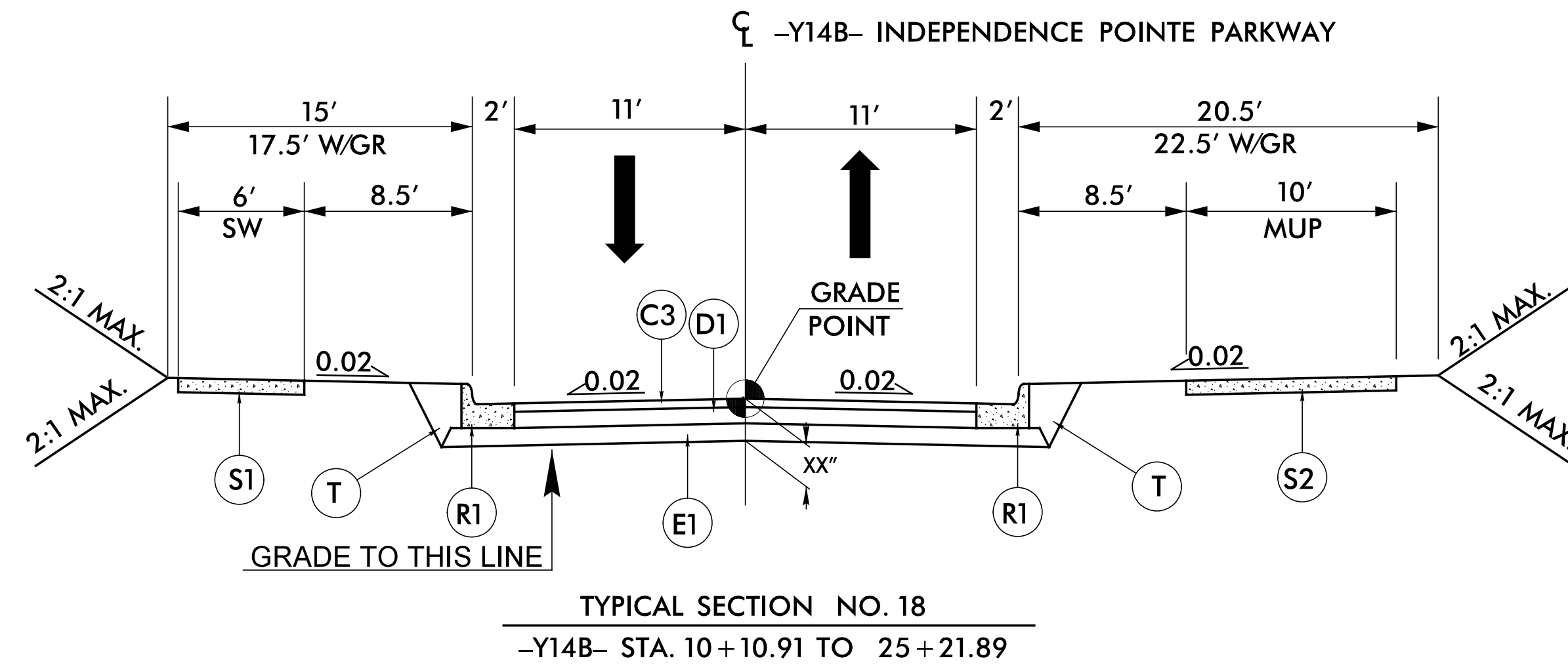
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6/2/09

PAVEMENT SCHEDULE
AWAITING PAVEMENT DESIGN

C1	1.5" S9.5C
C3	3" S9.5C
C4	VAR. DEPTH S9.5C
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R1	2'-6" CONCRETE CURB AND GUTTER.
R2	5" MONOLITHIC ISLAND
S1	SIDEWALK
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PROJECT REFERENCE NO. U-2509AB	SHEET NO. 2A-7
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
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DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

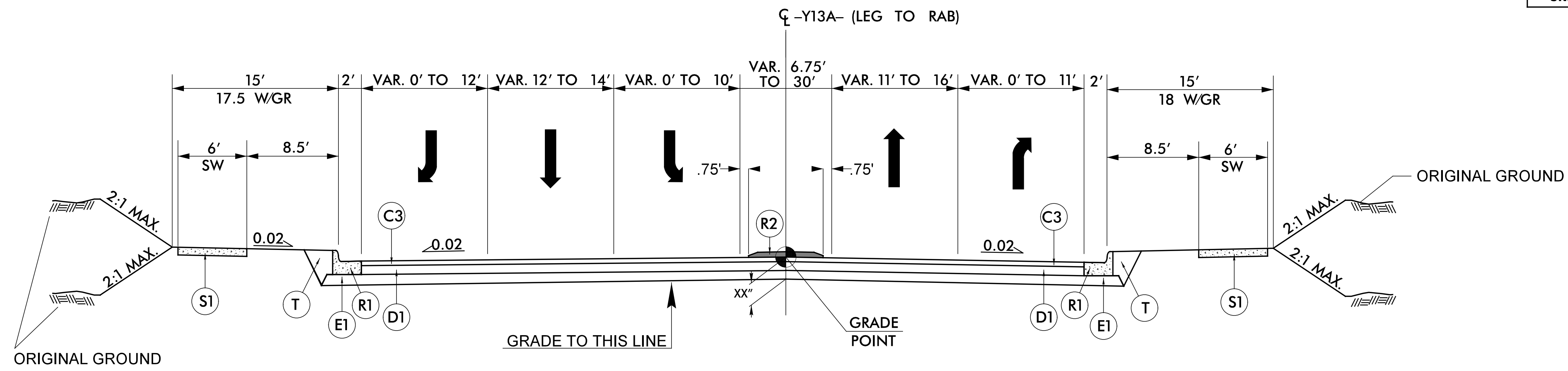


02/28/2004 10:58:06 AM C:\p\l\l_t_tjrp.dgn

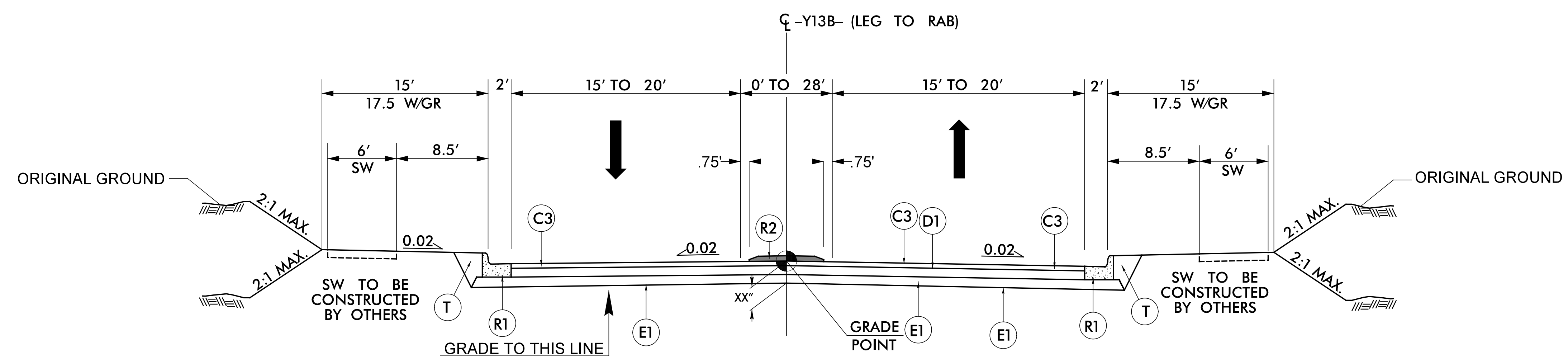
6/2/99

PAVEMENT SCHEDULE	
AWAITING PAVEMENT DESIGN	
C1	1.5" S9.5C
C3	3" S9.5C
C4	VAR. DEPTH S9.5C
D1	4" I19.0C
D2	VAR. DEPTH I19.0C,
E1	5" B25.0C
R1	2'-6" CONCRETE CURB AND GUTTER.
R2	5" MONOLITHIC ISLAND
S1	SIDEWALK
S2	MULTIUSE PATH
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.
V1	MILLING 1.5" DEPTH.
W	WEDGING

PROJECT REFERENCE NO. U-2509AB	SHEET NO. 2A-8
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



TYPICAL SECTION NO. 20
-Y13A- STA. 10+32.75 TO 14+41.80



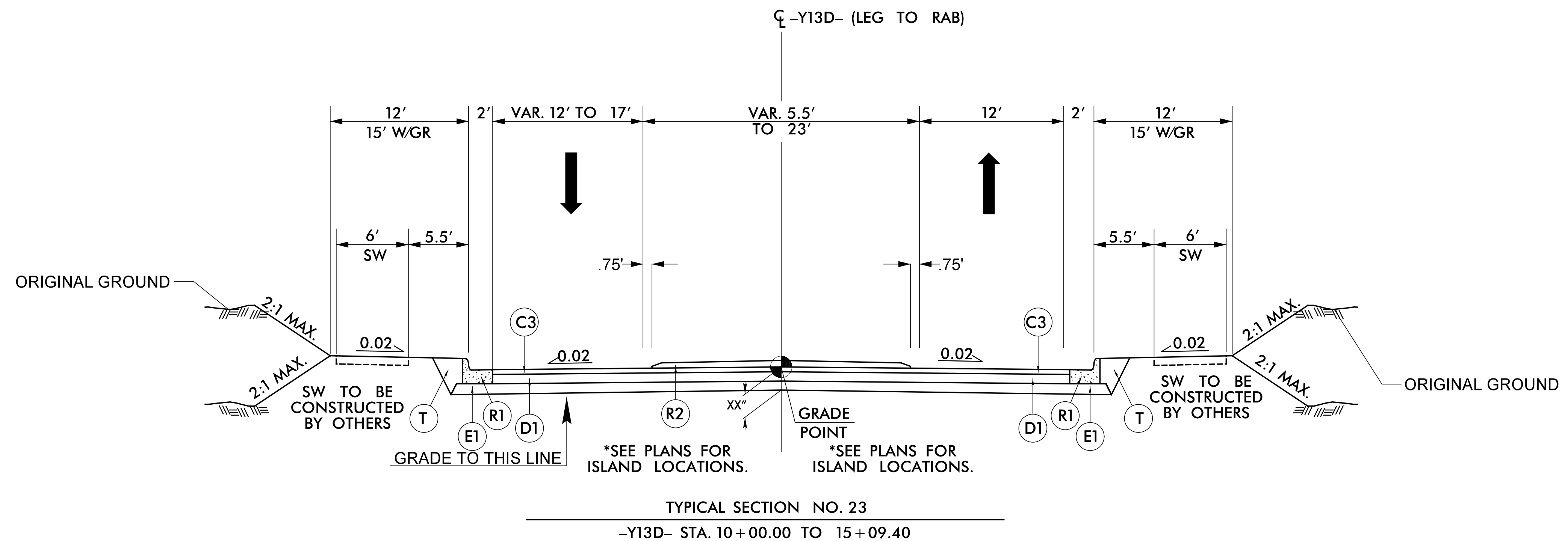
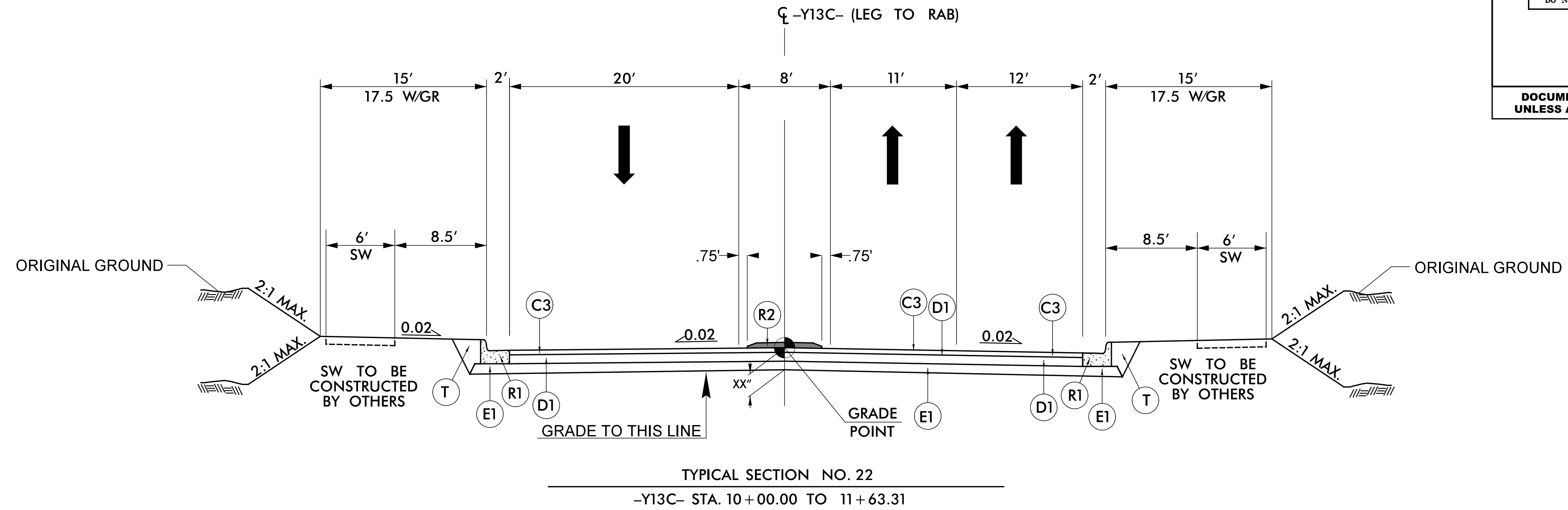
TYPICAL SECTION NO. 21
-Y13B- STA. 11+08.24 TO 13+00.00

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6/2/99

PAVEMENT SCHEDULE	
AWAITING PAVEMENT DESIGN	
C1	1.5" S9.5C
C3	3" S9.5C
C4	VAR. DEPTH S9.5C
D1	4" I19.0C
D2	VAR. DEPTH I19.0C,
E1	5" B25.0C
R1	2'-6" CONCRETE CURB AND GUTTER.
R2	5" MONOLITHIC ISLAND
S1	SIDEWALK
S2	MULTIUSE PATH
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.
V1	MILLING 1.5" DEPTH.
W	WEDGING

PROJECT REFERENCE NO. U-2509AB	SHEET NO. 2A-9
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

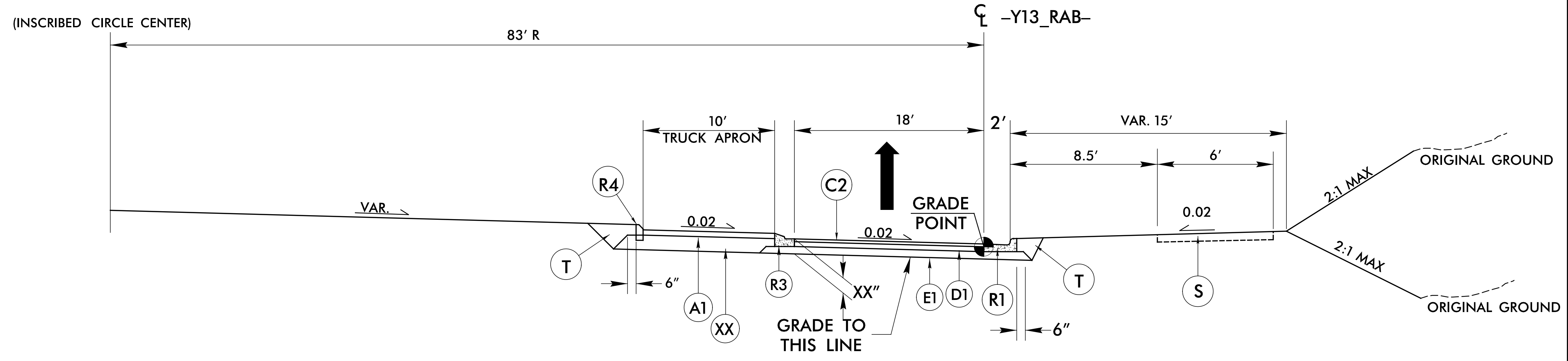


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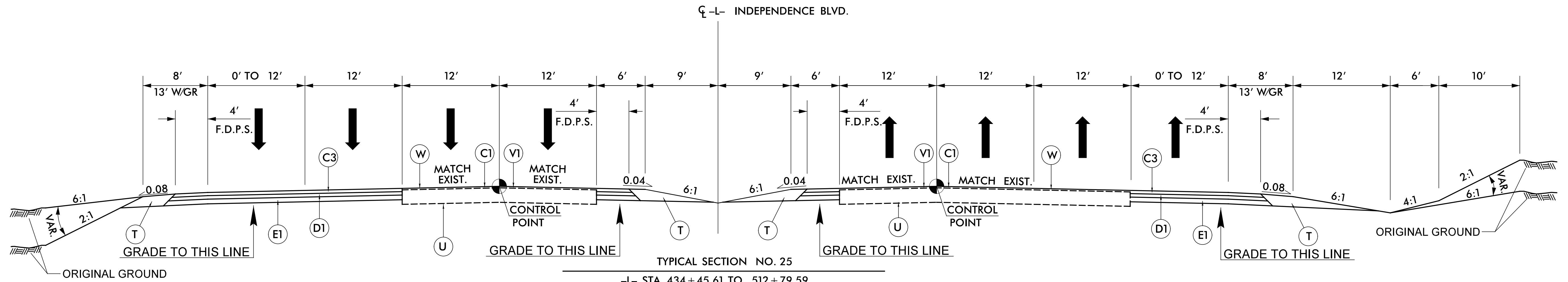
6/2/99

PROJECT REFERENCE NO. U-2509AB	SHEET NO. 2A-10
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
INCOMPLETE PLANS <small>DO NOT USE FOR R/W ACQUISITION</small>	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

PAVEMENT SCHEDULE	
<i>AWAITING PAVEMENT DESIGN</i>	
C1	1.5" S9.5C
C3	3" S9.5C
C4	VAR. DEPTH S9.5C
D1	4" I19.0C
D2	VAR. DEPTH I19.0C,
E1	5" B25.0C
R1	2'-6" CONCRETE CURB AND GUTTER.
R3	1'-6" CONCRETE CURB AND GUTTER.
R4	9" x 18" CURB
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.
V1	MILLING 1.5" DEPTH.
W	WEDGING



TYPICAL SECTION NO. 24
 -Y13_RAB- STA. 10+00.00 TO STA. 15+21.50

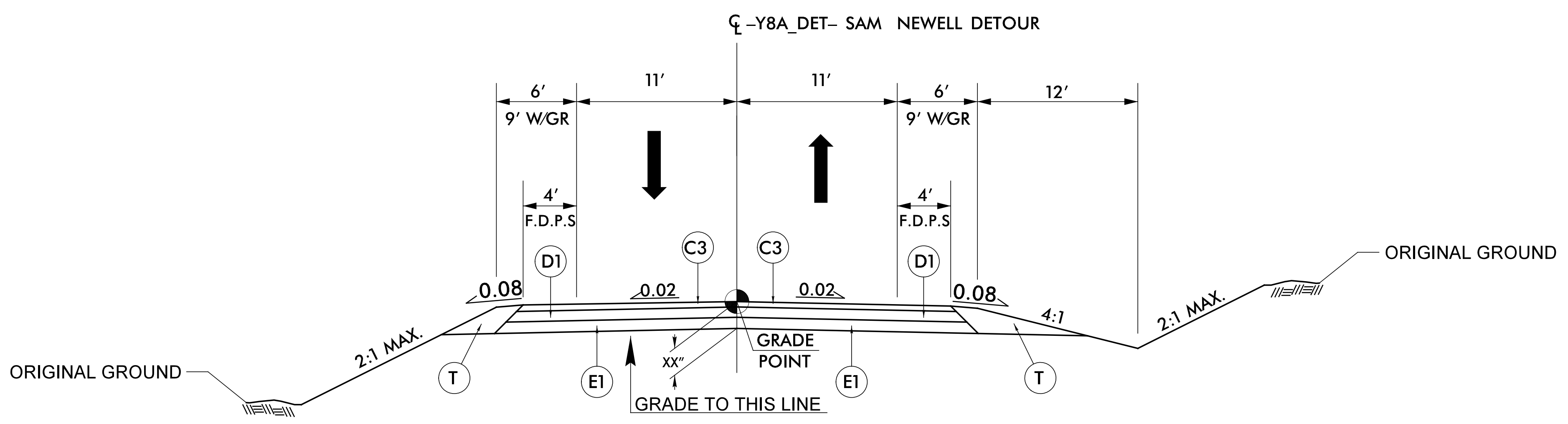


TYPICAL SECTION NO. 25
 -L- STA. 434+45.61 TO 512+79.59

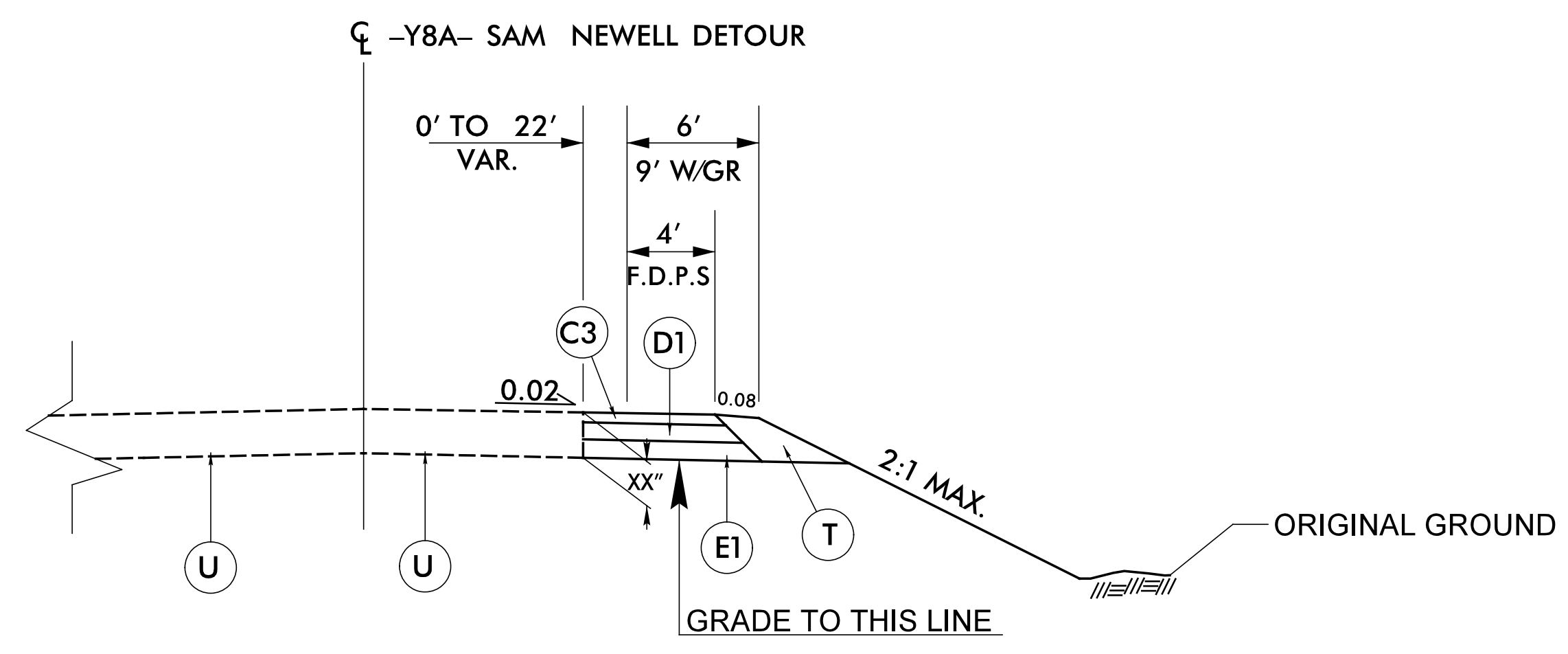
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6/2/99

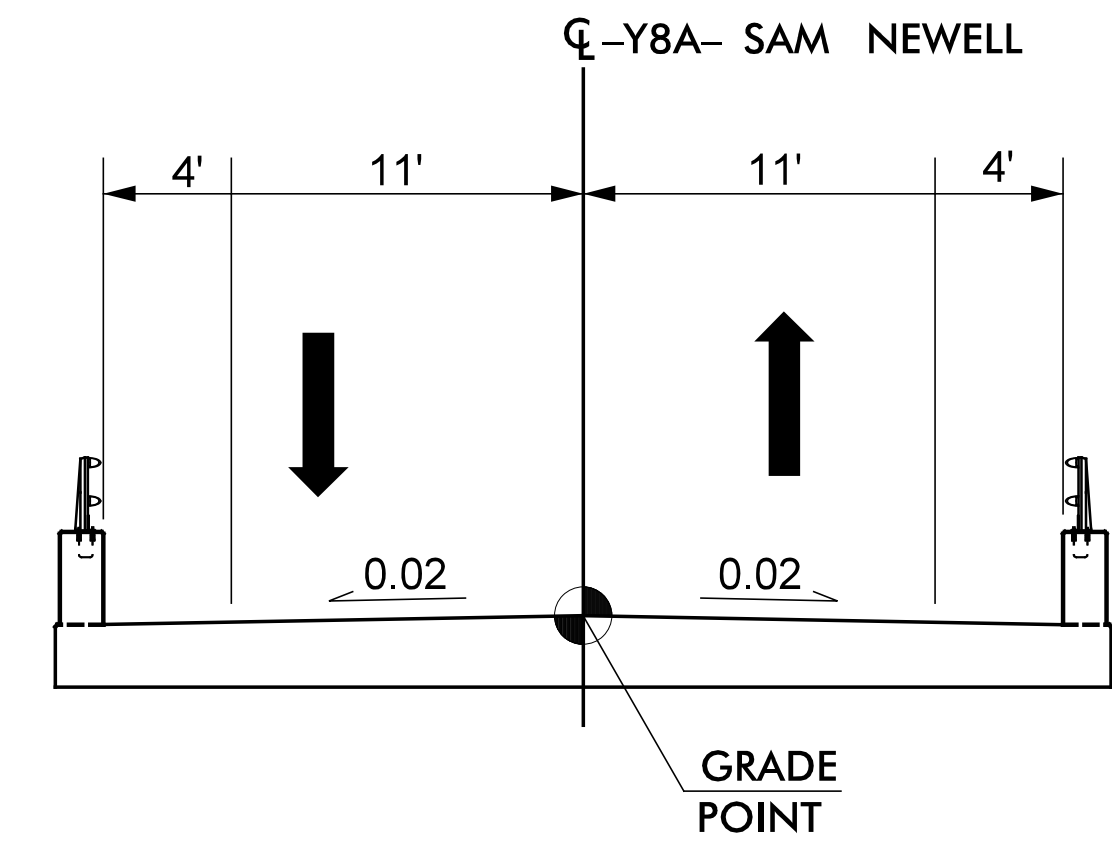
PAVEMENT SCHEDULE AWAITING PAVEMENT DESIGN	
C1	1.5" S9.5C
C3	3" S9.5C
C4	VAR. DEPTH S9.5C
D1	4" I19.0C
D2	VAR. DEPTH I19.0C,
E1	5" B25.0C
R1	2'-6" CONCRETE CURB AND GUTTER.
R3	1'-6" CONCRETE CURB AND GUTTER.
R4	9" x 18" CURB
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.
V1	MILLING 1.5" DEPTH.
W	WEDGING



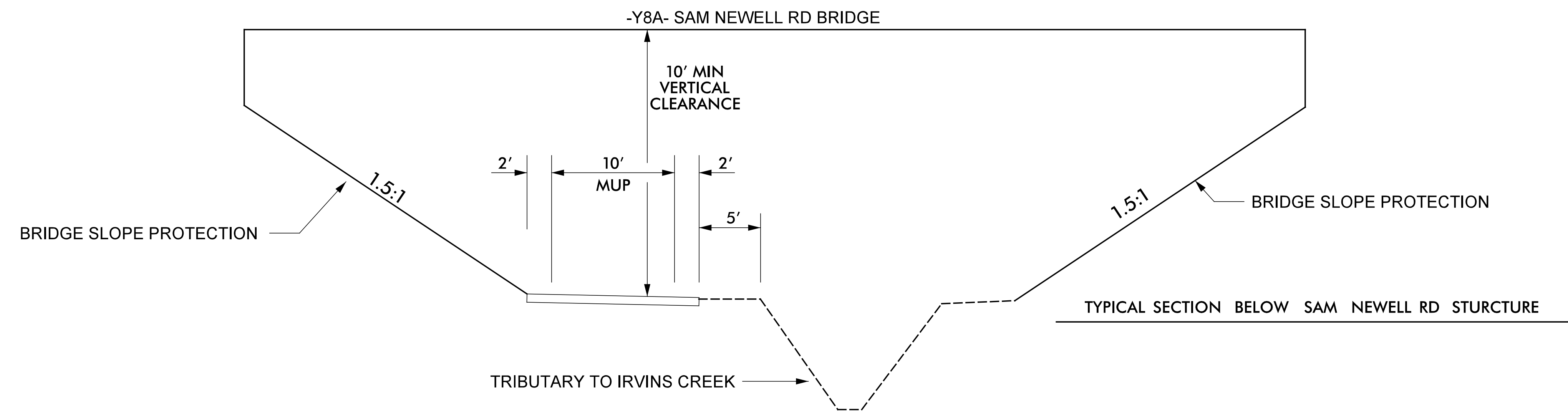
TYPICAL SECTION NO. 26
 -Y8_DET- STA. 10+16.84 TO 13+78.00 (BEG. BRIDGE)
 -Y8_DET- STA. 14+38.00 (END BRIDGE) TO 18+28.24



TYPICAL SECTION NO. 27
 -Y8_DET- STA. 18+28.24 TO 22+4.76



TYPICAL SECTION NO. 28
 -Y8A_DET- STA. 13+78.00 TO 14+38.00



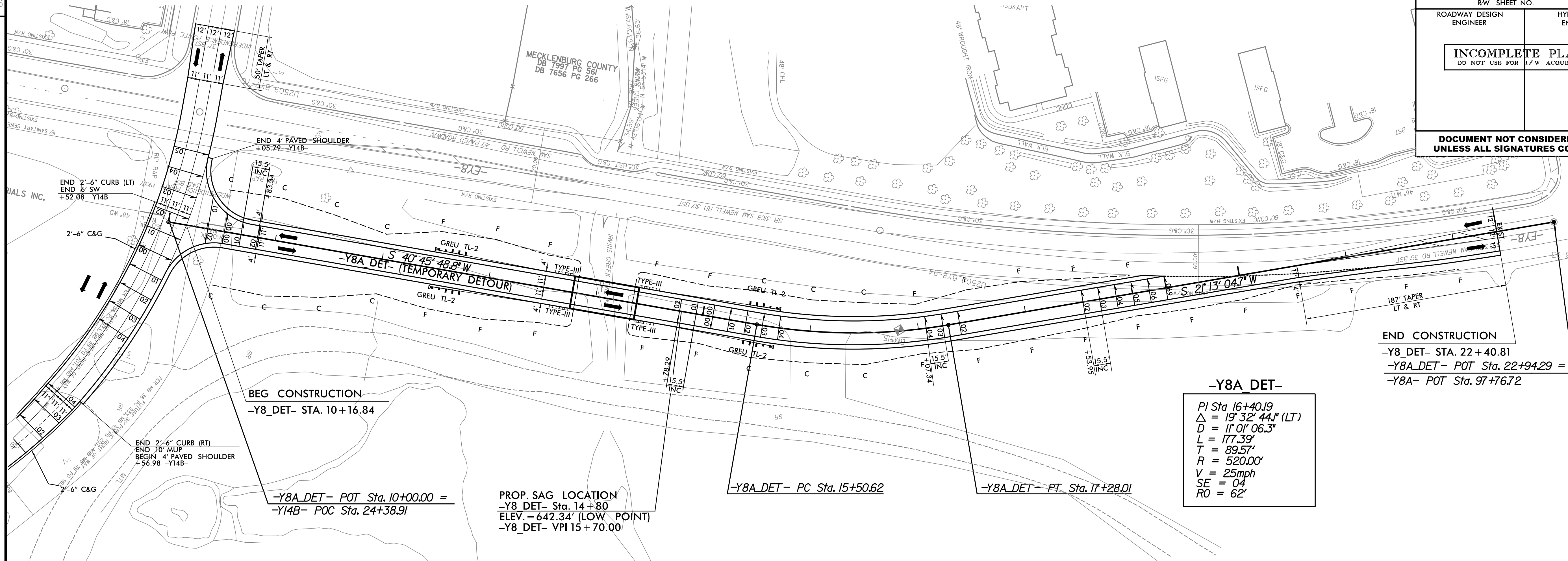
TYPICAL SECTION BELOW SAM NEWELL RD STRUCTURE

PROJECT REFERENCE NO. U-2509AB	SHEET NO. 2A-11
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

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lboason

DETAIL OF TEMPORARY ONSITE DETOUR AT SAM NEWELL

PROJECT REFERENCE NO. U-2509AB	SHEET NO. 2B-1
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

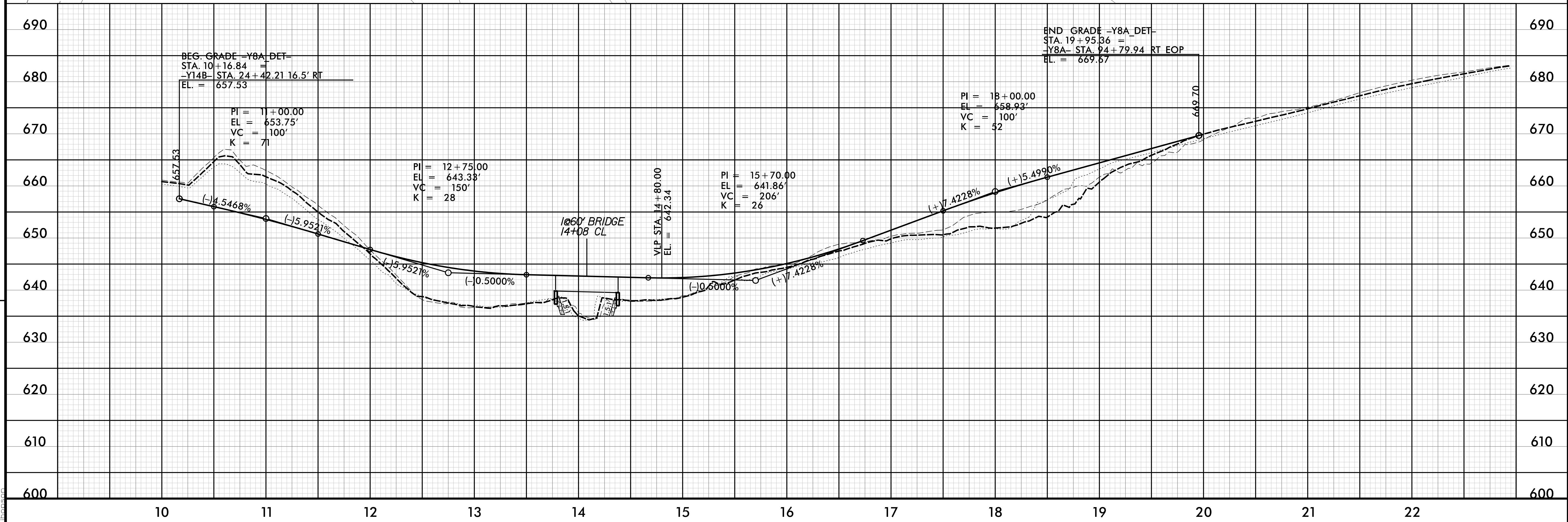


-Y8A_DET-

$PI\ Sta\ 16+40.19$
 $\Delta = 19^\circ 32' 44.1\" (LT)$
 $D = 11^\circ 01' 06.3\"$
 $L = 177.39'$
 $T = 89.57'$
 $R = 520.00'$
 $V = 25\text{mph}$
 $SE = 04$
 $RO = 62'$

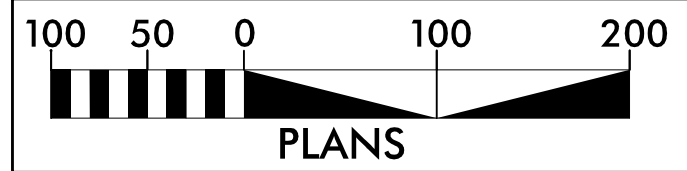
END CONSTRUCTION

-Y8_DET- STA. 22+40.81
 -Y8A_DET- POT Sta. 22+94.29 =
 -Y8A- POT Sta. 97+76.72

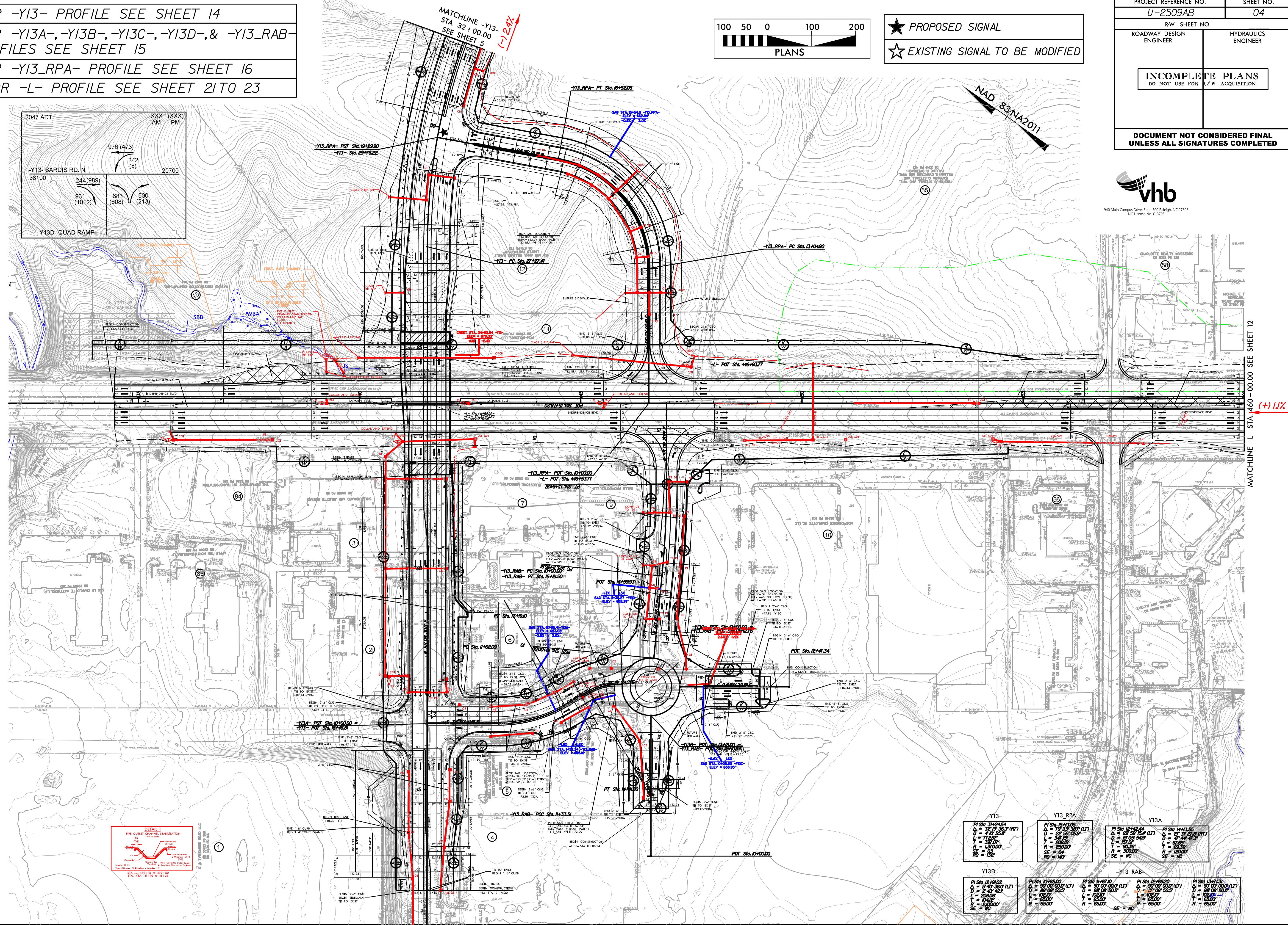
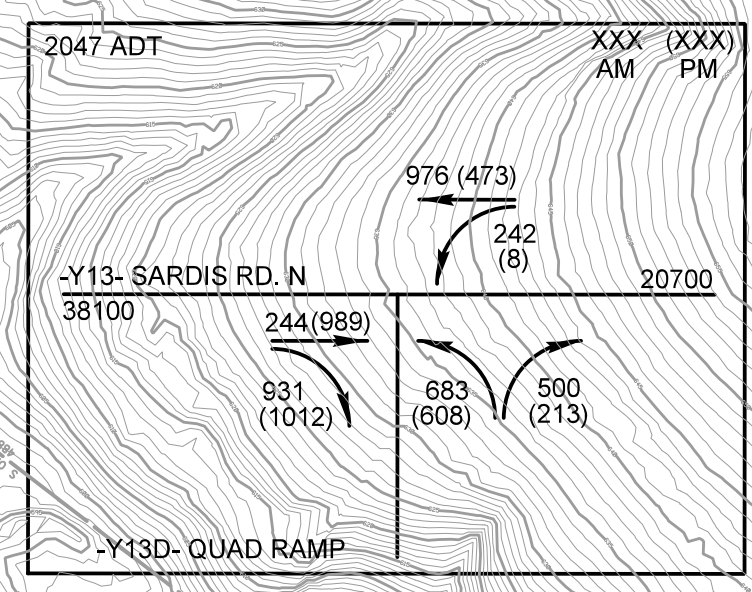


FOR -Y13- PROFILE SEE SHEET 14
 FOR -Y13A-, -Y13B-, -Y13C-, -Y13D-, & -Y13_RAB-
 PROFILES SEE SHEET 15
 FOR -Y13_RPA- PROFILE SEE SHEET 16
 FOR -L- PROFILE SEE SHEET 21 TO 23

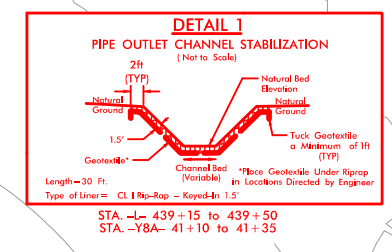
PROJECT REFERENCE NO. U-2509AB	SHEET NO. 04
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



★ PROPOSED SIGNAL
 ☆ EXISTING SIGNAL TO BE MODIFIED



-Y13- PI Sta. 318454 $\Delta = 52' 11.30" (RT)$ $D = 2' 17.55"$ $L = 137.00'$ $R = 8500'$ SE = 04 NO = 132	-Y13 RPA- PI Sta. 154305 $\Delta = 22' 59.15" (LT)$ $D = 22' 59.15"$ $L = 54.5'$ $R = 8500'$ SE = 04 NO = 140	-Y13A- PI Sta. 124844 $\Delta = 29' 59.15" (RT)$ $D = 29' 59.15"$ $L = 54.5'$ $R = 8500'$ SE = 04 NO = 132	-Y13A- PI Sta. 141366 $\Delta = 27' 31.27" (RT)$ $D = 27' 31.27"$ $L = 44.47'$ $R = 8500'$ SE = 04 NO = 132
-Y13D- PI Sta. 124902 $\Delta = 5' 40.36" (LT)$ $D = 2' 43.42"$ $L = 104.0'$ $R = 8500'$ SE = 04	-Y13 RAB- PI Sta. 104650 $\Delta = 30' 00.00" (LT)$ $D = 30' 00.00"$ $L = 102.0'$ $R = 8500'$ SE = 04	-Y13 RAB- PI Sta. 116710 $\Delta = 29' 00.00" (LT)$ $D = 29' 00.00"$ $L = 102.0'$ $R = 8500'$ SE = 04	-Y13 RAB- PI Sta. 116520 $\Delta = 30' 00.00" (LT)$ $D = 30' 00.00"$ $L = 102.0'$ $R = 8500'$ SE = 04
-Y13 RAB- PI Sta. 137131 $\Delta = 30' 00.00" (LT)$ $D = 30' 00.00"$ $L = 102.0'$ $R = 8500'$ SE = 04	-Y13 RAB- PI Sta. 137131 $\Delta = 30' 00.00" (LT)$ $D = 30' 00.00"$ $L = 102.0'$ $R = 8500'$ SE = 04	-Y13 RAB- PI Sta. 137131 $\Delta = 30' 00.00" (LT)$ $D = 30' 00.00"$ $L = 102.0'$ $R = 8500'$ SE = 04	-Y13 RAB- PI Sta. 137131 $\Delta = 30' 00.00" (LT)$ $D = 30' 00.00"$ $L = 102.0'$ $R = 8500'$ SE = 04



REVISIONS

MATCHLINE -L- STA. 460+00.00 SEE SHEET 12

(+) 11%

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 3/18/23 PM
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 HOOPER

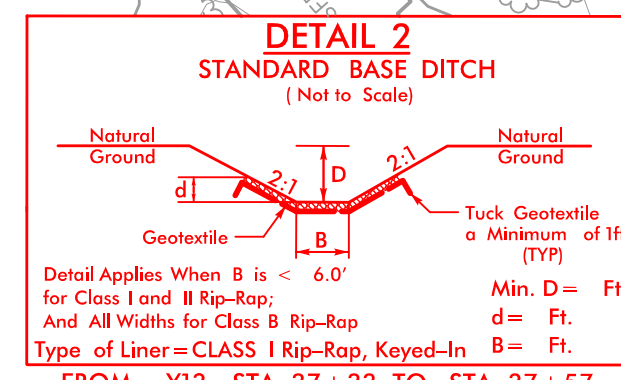
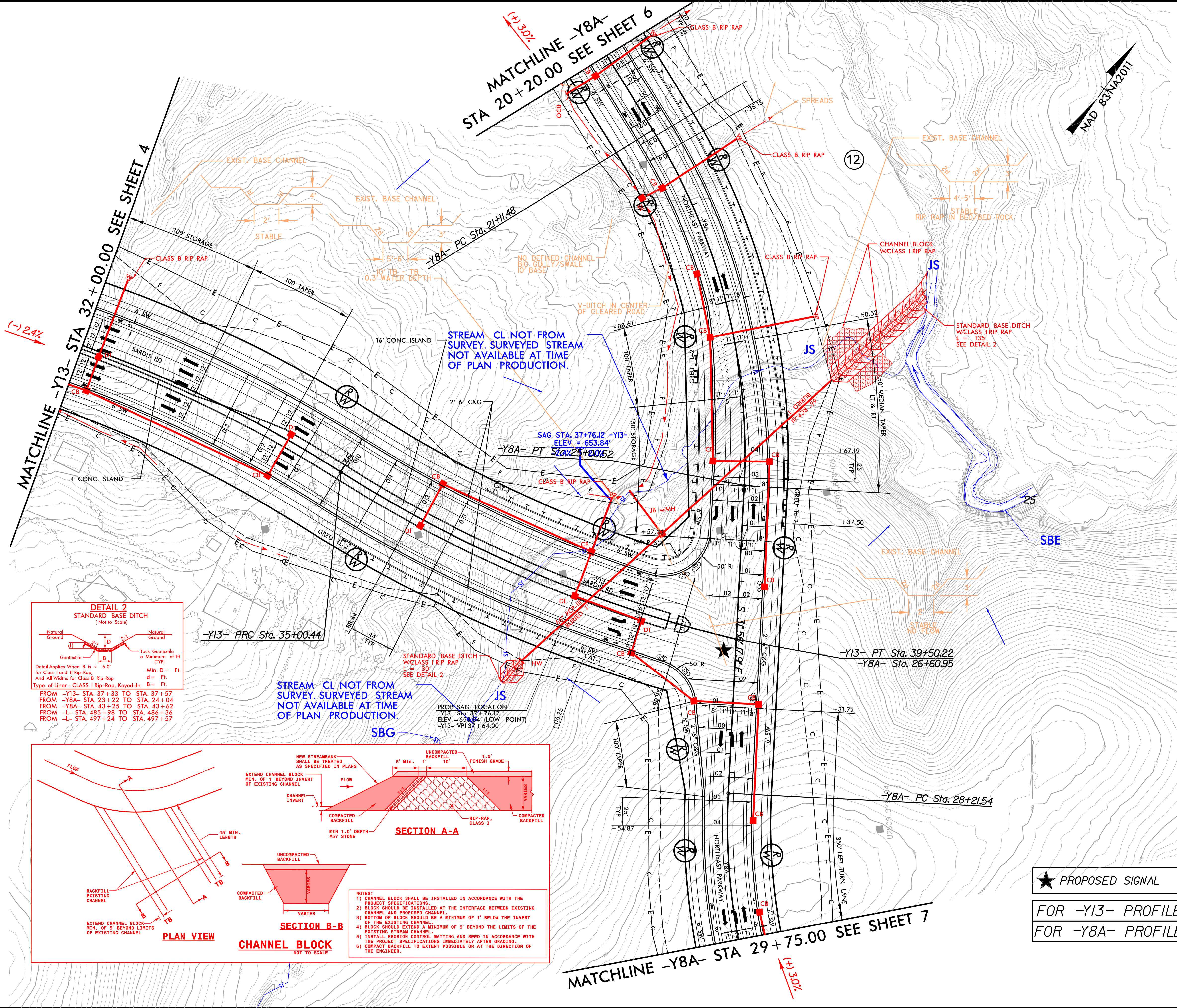
PROJECT REFERENCE NO. U-2509AB	SHEET NO. 05
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



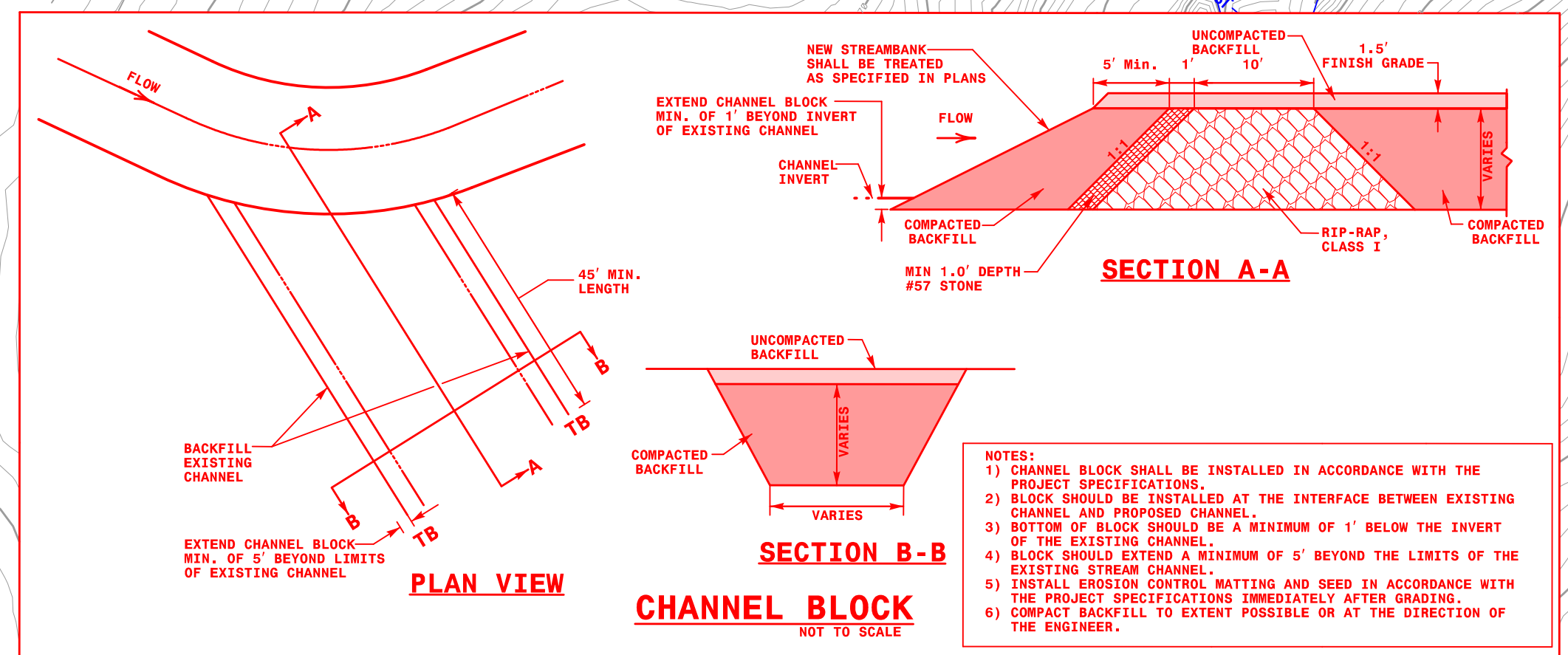
940 Main Campus Drive, Suite 500 Raleigh, NC 27605
NC License No. C-3705

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REVISIONS



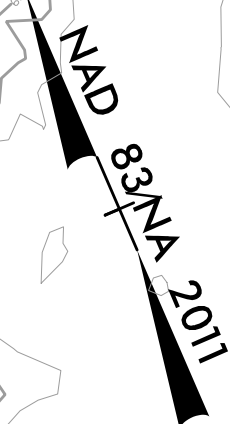
FROM -Y13- STA. 37+33 TO STA. 37+57
FROM -Y8A- STA. 23+22 TO STA. 24+04
FROM -L- STA. 485+98 TO STA. 486+26
FROM -L- STA. 497+24 TO STA. 497+57



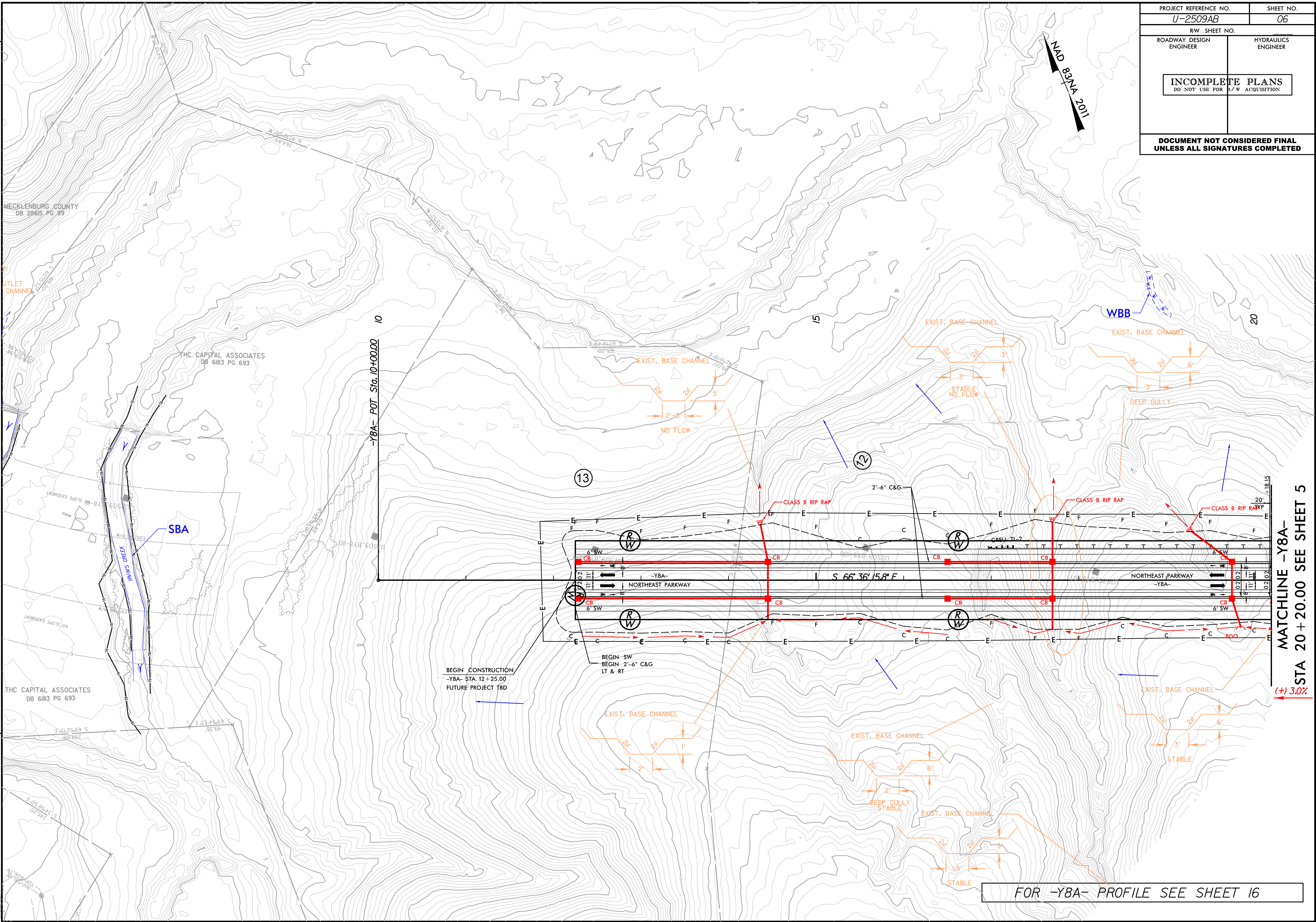
★ PROPOSED SIGNAL

FOR -Y13- PROFILE SEE SHEET 14
FOR -Y8A- PROFILE SEE SHEET 16 & 17

PROJECT REFERENCE NO. U-2509AB	SHEET NO. 06
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



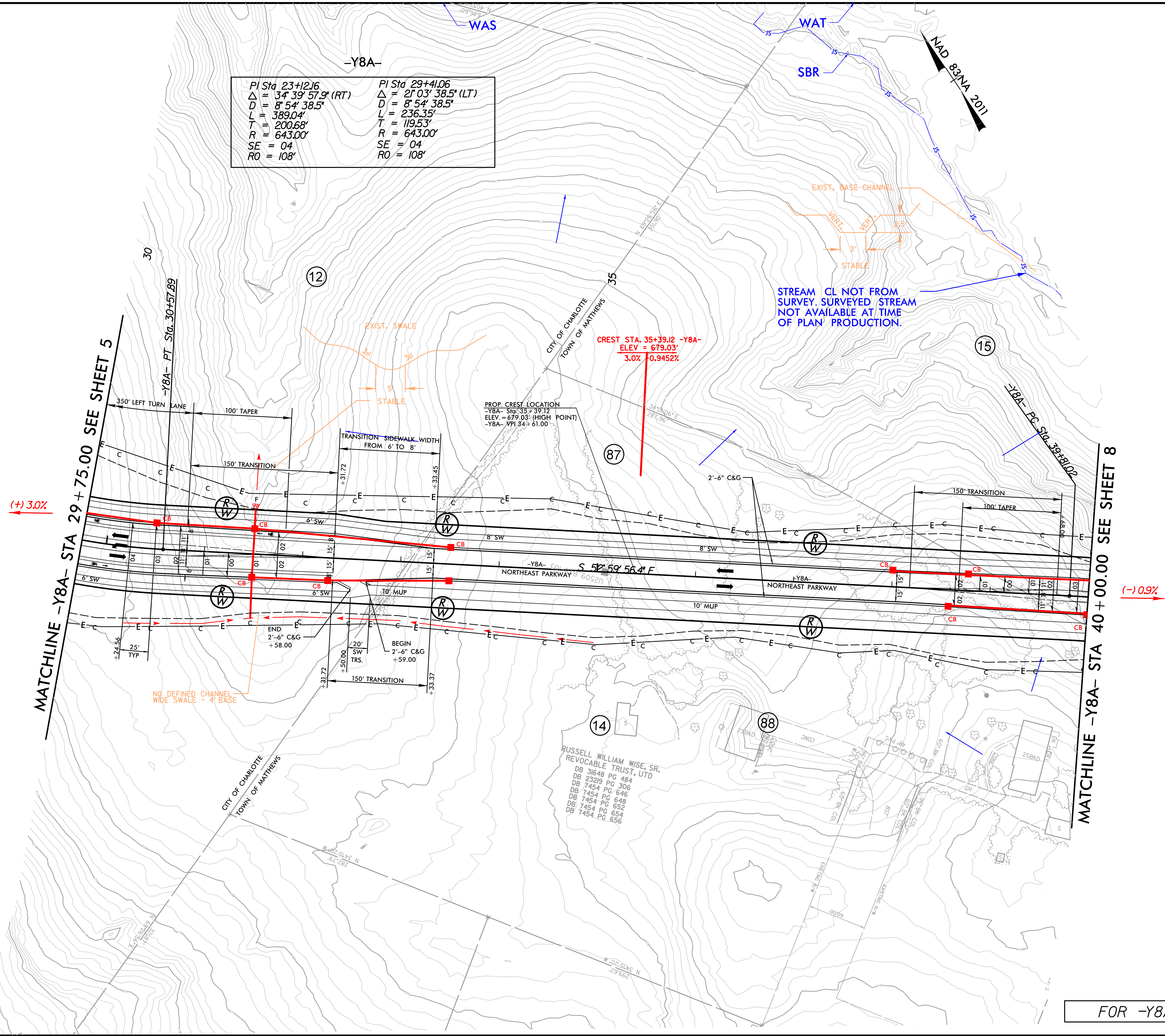
REVISIONS
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FOR -Y8A- PROFILE SEE SHEET 16

PROJECT REFERENCE NO. U-2509AB	SHEET NO. 07
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

PI Sta 23+12.16 Δ = 34° 39' 57.9" (RT) D = 8' 54' 38.5" L = 389.04' T = 200.68' R = 643.00' SE = 04 RO = 108'	PI Sta 29+41.06 Δ = 21° 03' 38.5" (LT) D = 8' 54' 38.5" L = 236.35' T = 119.53' R = 643.00' SE = 04 RO = 108'
--	--

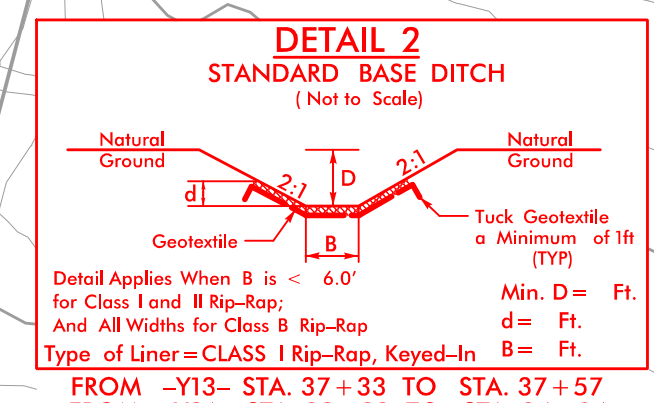
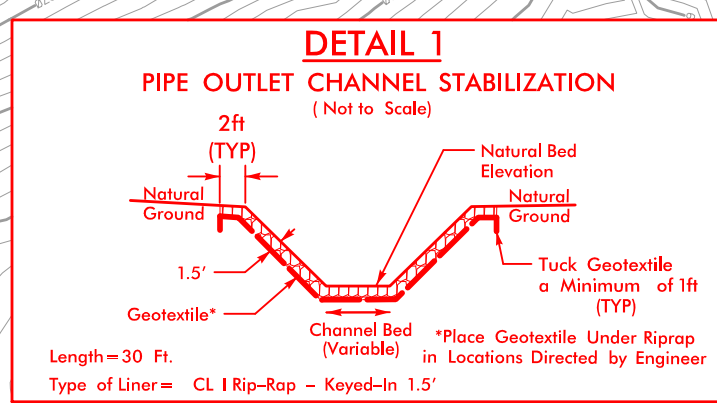


REVISIONS

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 HOOPER

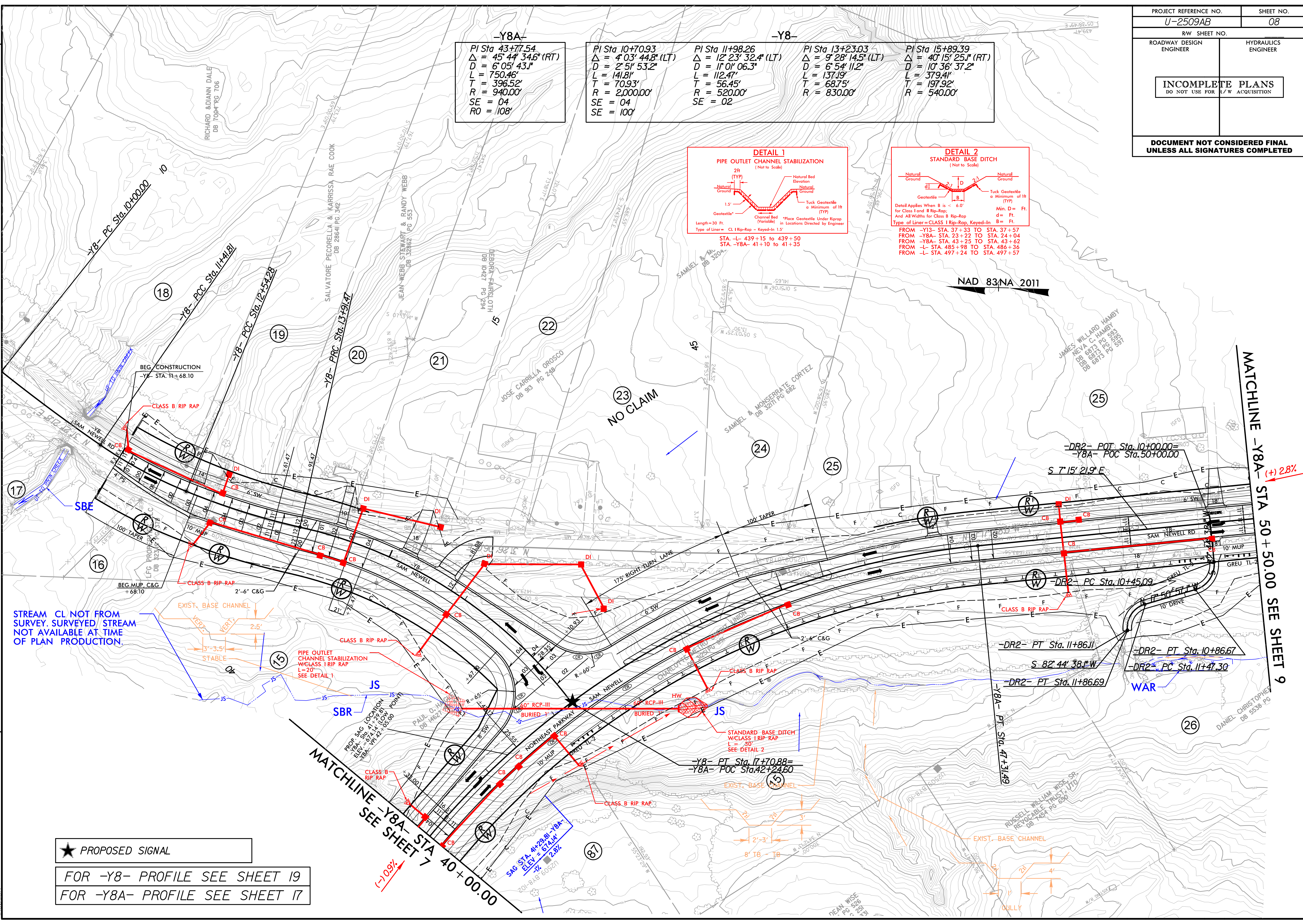
FOR -Y8A- PROFILE SEE SHEET 17

-Y8A-	-Y8-
PI Sta 43+77.54 $\Delta = 45^\circ 44' 34.6''$ (RT) D = 6' 05" 43.1" L = 750.46' T = 396.52' R = 940.00' SE = 04 RO = 108'	PI Sta 10+70.93 $\Delta = 4^\circ 03' 44.8''$ (LT) D = 2' 51" 53.2" L = 141.81' T = 70.93' R = 2,000.00' SE = 04 SE = 100'
PI Sta 11+98.26 $\Delta = 12^\circ 23' 32.4''$ (LT) D = 11' 01" 06.3" L = 112.47' T = 56.45' R = 520.00' SE = 02	PI Sta 13+23.03 $\Delta = 9^\circ 28' 14.5''$ (LT) D = 6' 54" 11.2" L = 137.19' T = 68.75' R = 830.00'
PI Sta 15+89.39 $\Delta = 40^\circ 15' 25.1''$ (RT) D = 10' 36" 37.2" L = 379.41' T = 197.92' R = 540.00'	



FROM -Y13- STA. 37+33 TO STA. 37+57
 FROM -Y8A- STA. 23+22 TO STA. 24+04
 FROM -Y8A- STA. 43+25 TO STA. 43+62
 FROM -L- STA. 485+98 TO STA. 486+36
 FROM -L- STA. 497+24 TO STA. 497+57

REVISIONS
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★ PROPOSED SIGNAL

FOR -Y8- PROFILE SEE SHEET 19
 FOR -Y8A- PROFILE SEE SHEET 17

MATCHLINE -Y8A- STA 50 + 50.00 SEE SHEET 9

NAD 83/NA 2011

NO CLAIM

STREAM CL NOT FROM SURVEY. SURVEYED / STREAM NOT AVAILABLE AT TIME OF PLAN PRODUCTION.

-DR2- PT Sta. 11+86.69
 -DR2- PC Sta. 11+47.30
 -DR2- PT Sta. 10+86.67
 -DR2- PC Sta. 10+45.09

-Y8- PT Sta. 17+70.88 =
 -Y8A- POC Sta. 42+24.60

MATCHLINE -Y8A- STA 40 + 00.00
 SEE SHEET 7

EXIST. BASE CHANNEL

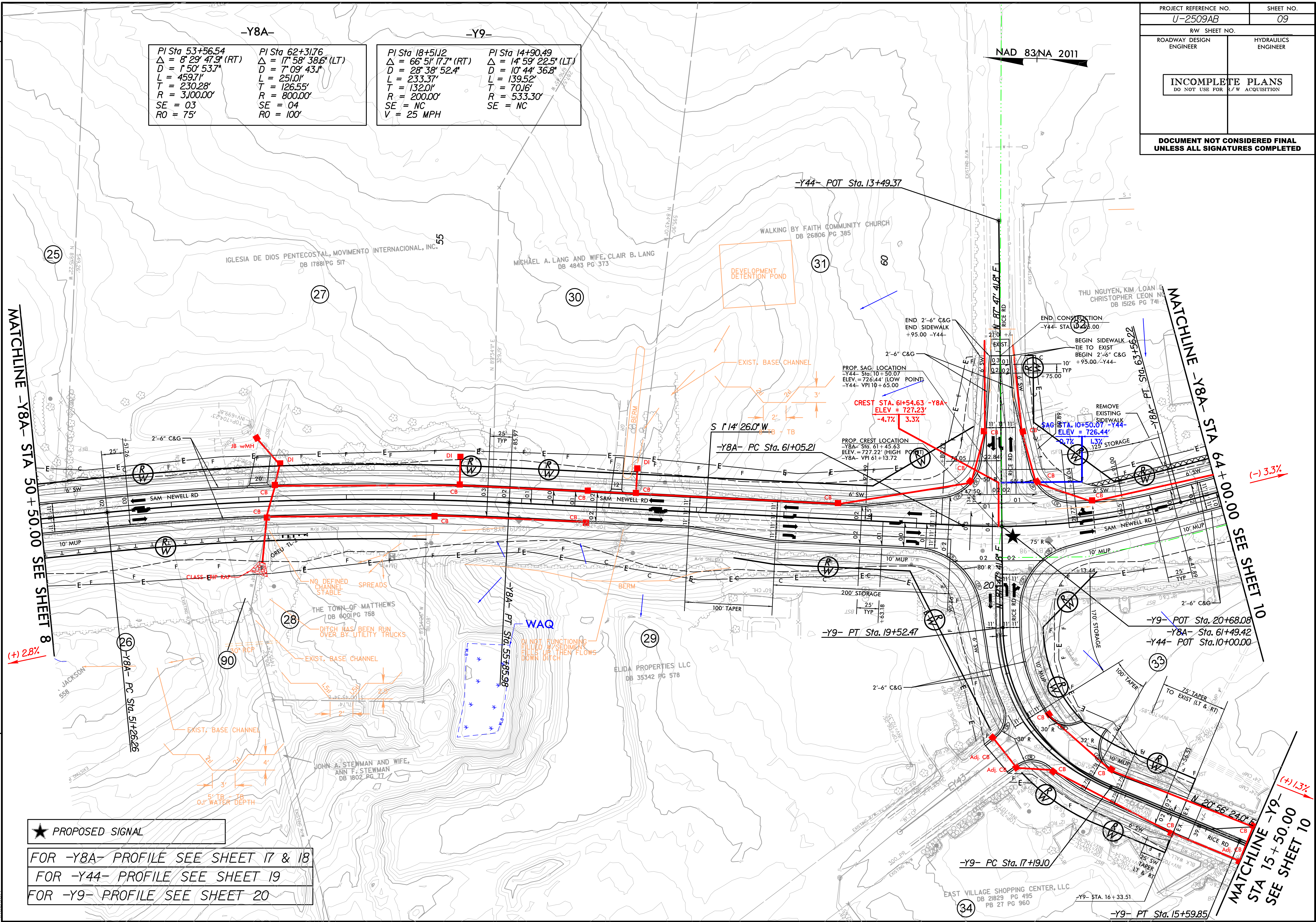
PROPOSED SIGNAL

EXIST. BASE CHANNEL

PROJECT REFERENCE NO. U-2509AB	SHEET NO. 09
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

-Y8A-		-Y9-	
PI Sta 53+56.54	PI Sta 62+31.76	PI Sta 18+51.12	PI Sta 14+90.49
$\Delta = 8^{\circ} 29' 47.9"$ (RT)	$\Delta = 17^{\circ} 58' 38.6"$ (LT)	$\Delta = 66^{\circ} 51' 17.7"$ (RT)	$\Delta = 14^{\circ} 59' 22.5"$ (LT)
$D = 1^{\circ} 50' 53.7"$	$D = 7^{\circ} 09' 43.1"$	$D = 28^{\circ} 38' 52.4"$	$D = 10^{\circ} 44' 36.8"$
$L = 459.71'$	$L = 251.01'$	$L = 233.37'$	$L = 139.52'$
$T = 230.28'$	$T = 126.55'$	$T = 132.01'$	$T = 70.16'$
$R = 3,100.00'$	$R = 800.00'$	$R = 200.00'$	$R = 533.30'$
$SE = 03$	$SE = 04$	$SE = NC$	$SE = NC$
$RO = 75'$	$RO = 100'$	$V = 25$ MPH	

NAD 83/NA 2011



REVISIONS

MATCHLINE -Y8A- STA 50+50.00 SEE SHEET 8

MATCHLINE -Y8A- STA 64+00.00 SEE SHEET 10

MATCHLINE -Y9- STA 15+50.00 SEE SHEET 10

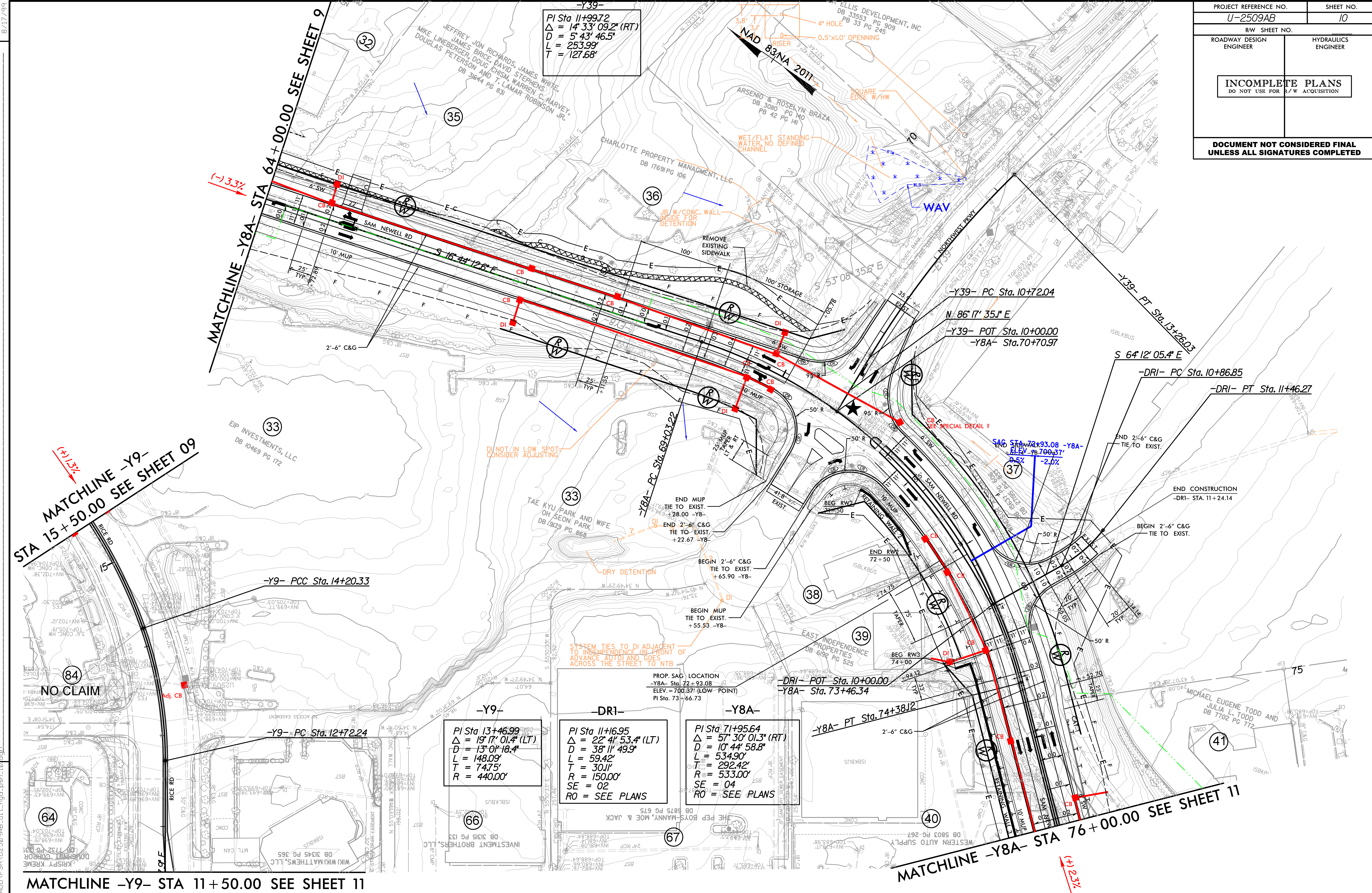
★ PROPOSED SIGNAL

FOR -Y8A- PROFILE SEE SHEET 17 & 18
 FOR -Y44- PROFILE SEE SHEET 19
 FOR -Y9- PROFILE SEE SHEET 20

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PROJECT REFERENCE NO.	SHEET NO.
U-2509AB	10
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

REVISIONS



-Y39-
 PI Sta 11+99.72
 $\Delta = 14' 33'' 09.2''$ (RT)
 $D = 5' 43'' 46.5''$
 $L = 253.99'$
 $T = 127.68'$

-Y9-
 PI Sta 13+46.99
 $\Delta = 13' 01'' 18.4''$ (LT)
 $D = 148.09'$
 $T = 74.75'$
 $R = 440.00'$

-DRI-
 PI Sta 11+6.95
 $\Delta = 22' 41'' 53.4''$ (LT)
 $D = 38' 11'' 49.9''$
 $L = 59.42'$
 $T = 30.11'$
 $R = 150.00'$
 $RO = \text{SEE PLANS}$

-Y8A-
 PI Sta 71+95.64
 $\Delta = 57' 30'' 01.3''$ (RT)
 $D = 10' 44'' 58.8''$
 $L = 534.90'$
 $T = 292.42'$
 $R = 533.00'$
 $SE = 04$
 $RO = \text{SEE PLANS}$

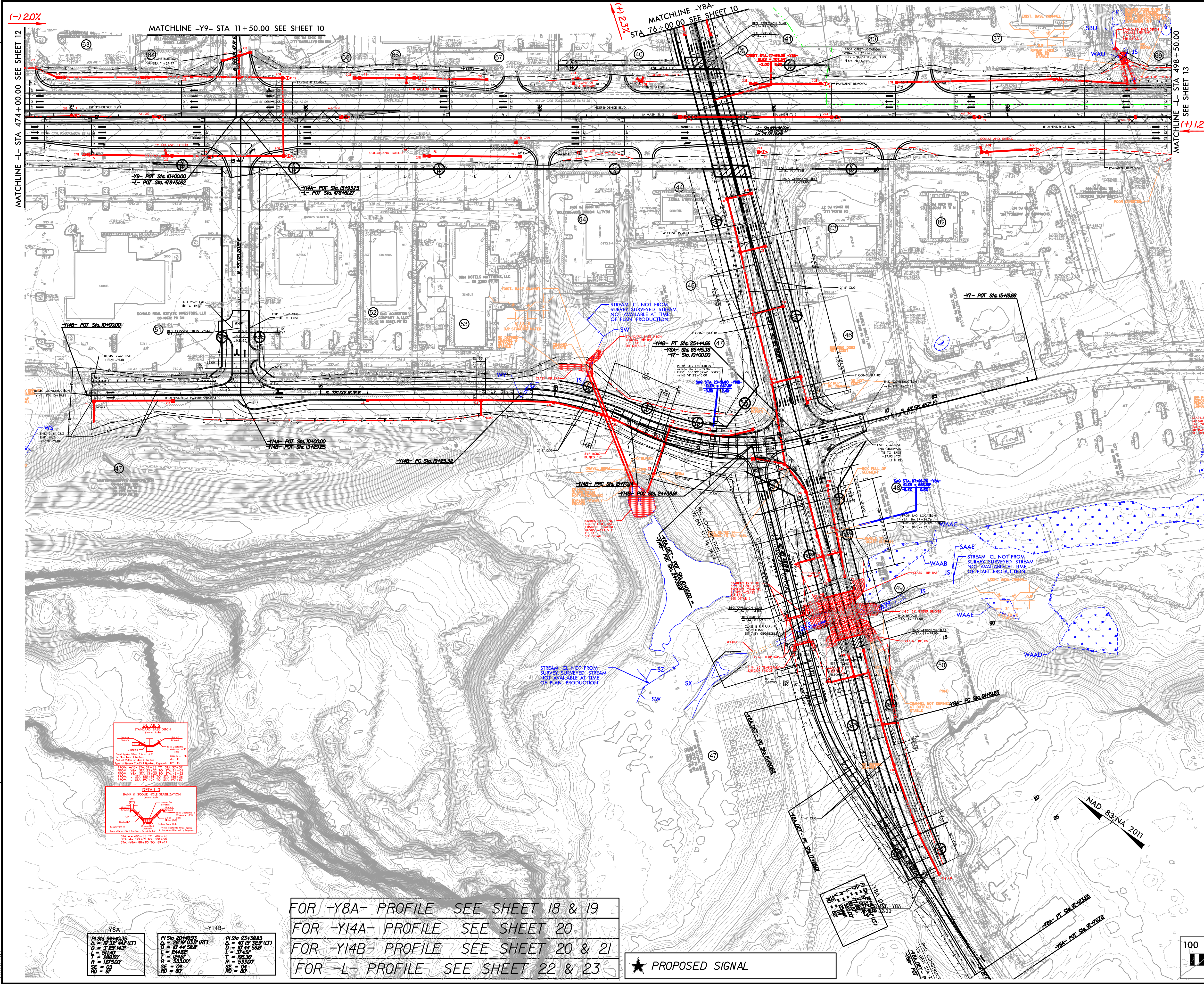
PROP. SAG LOCATION
 -Y8A- Sta. 72+93.08
 ELEV. = 700.37' (LOW POINT)
 PI Sta. 73+66.73

FOR -Y8A PROFILE SEE SHEET 18 FOR -Y9- PROFILE SEE SHEET 20
 FOR -DRI- PROFILE SEE SHEET 20

★ PROPOSED SIGNAL

3/19/03 PM R:\Hyd\ulics\CADD\PSHU2509AB.ul.t_hyd_psh_10.dwg 8/17/99

PROJECT REFERENCE NO. U-2509AB	SHEET NO. 11
R/W SHEET NO. ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



REVISIONS

8/17/99

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(-) 2.0%

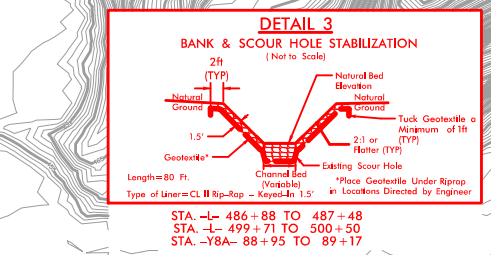
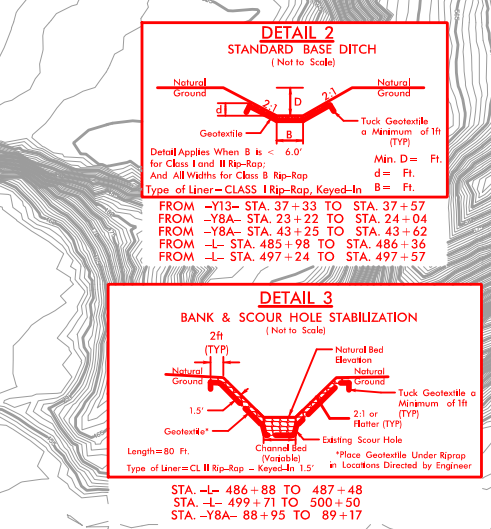
(+).12%

MATCHLINE -Y9- STA 11+50.00 SEE SHEET 10

MATCHLINE -Y8A- STA 76+00.00 SEE SHEET 10

MATCHLINE -L- STA 498+50.00 SEE SHEET 13

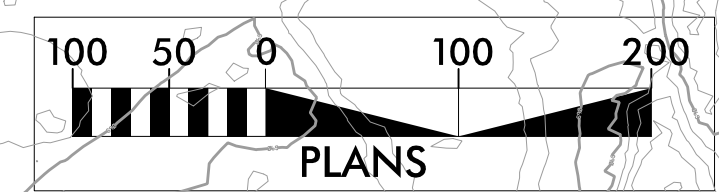
MATCHLINE -L- STA 474+00.00 SEE SHEET 12



FOR -Y8A- PROFILE SEE SHEET 18 & 19
FOR -Y14A- PROFILE SEE SHEET 20
FOR -Y14B- PROFILE SEE SHEET 20 & 21
FOR -L- PROFILE SEE SHEET 22 & 23

-Y8A-	-Y14A-	-Y14B-
PI STA 94+03.15	PI STA 20+48.93	PI STA 23+38.83
Δ = 15' 31" (LT)	Δ = 28' 19" (RT)	Δ = 47' 15" (LT)
D = 3' 52" (LT)	D = 4' 44" (RT)	D = 17' 44" (LT)
L = 31' 00"	L = 24' 00"	L = 37' 00"
R = 288.00'	R = 253.00'	R = 253.00'
SE = 03'	SE = 04'	SE = 04'
SD = 01'	SD = 01'	SD = 01'

★ PROPOSED SIGNAL



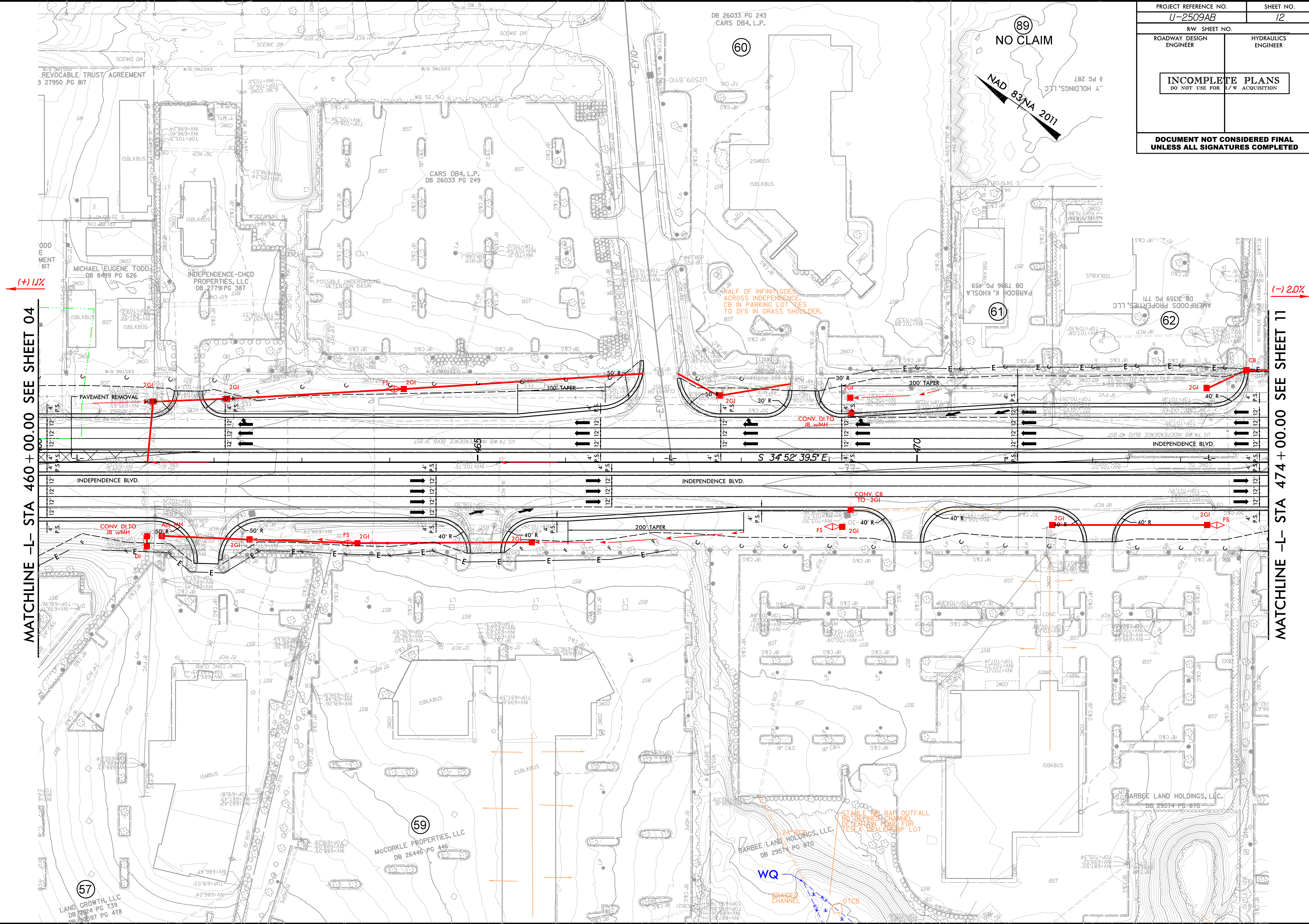
NAD 83/NA 2011

NAD 83/NA 2011

REVISIONS

MATCHLINE -L- STA 460 + 00.00 SEE SHEET 04

MATCHLINE -L- STA 474 + 00.00 SEE SHEET 11



PROJECT REFERENCE NO. U-2509AB	SHEET NO. 12
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

NO CLAIM
NAD 83/NA 2011

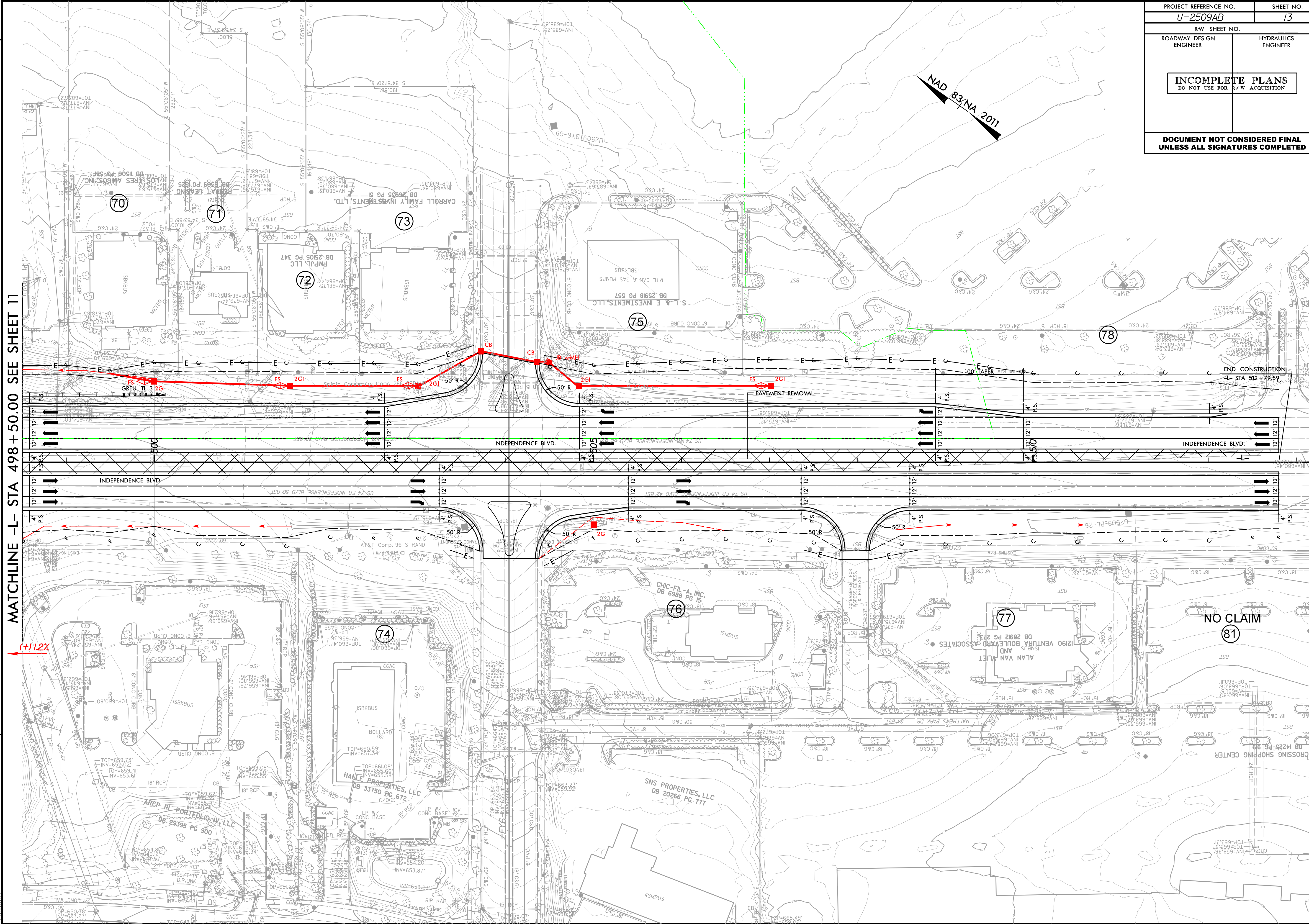
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PROJECT REFERENCE NO. U-2509AB	SHEET NO. 13
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

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 MATCHLINE -L- STA 498 + 50.00 SEE SHEET 11

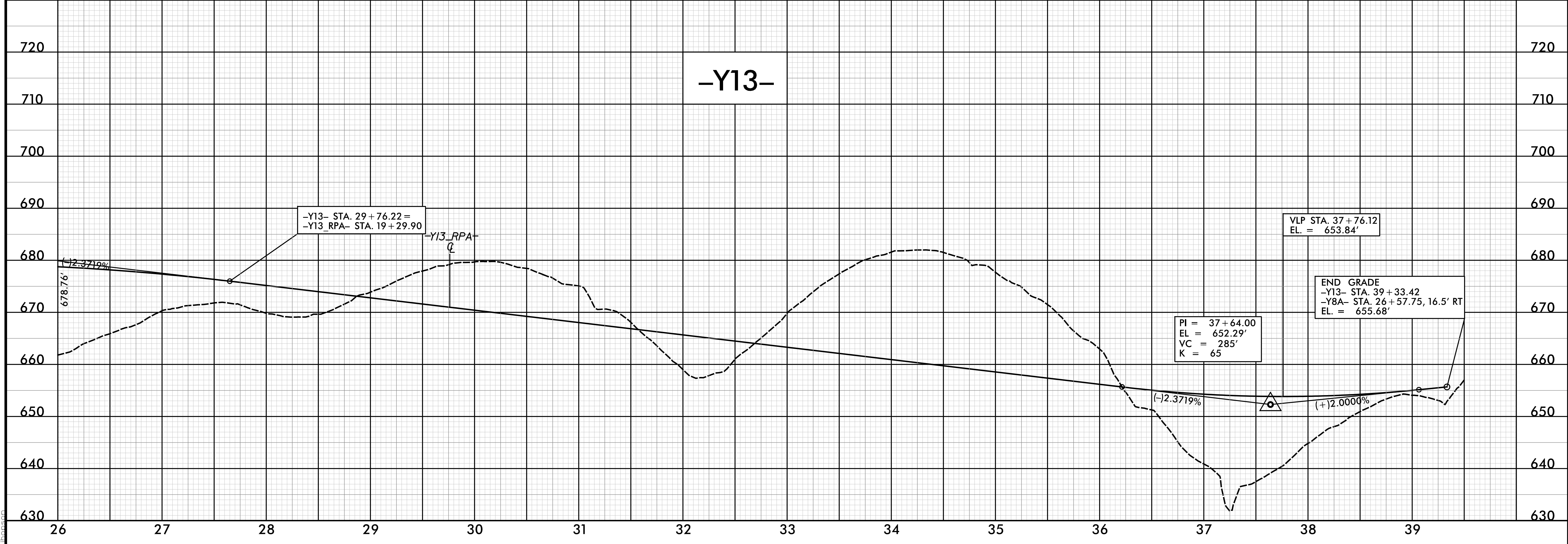
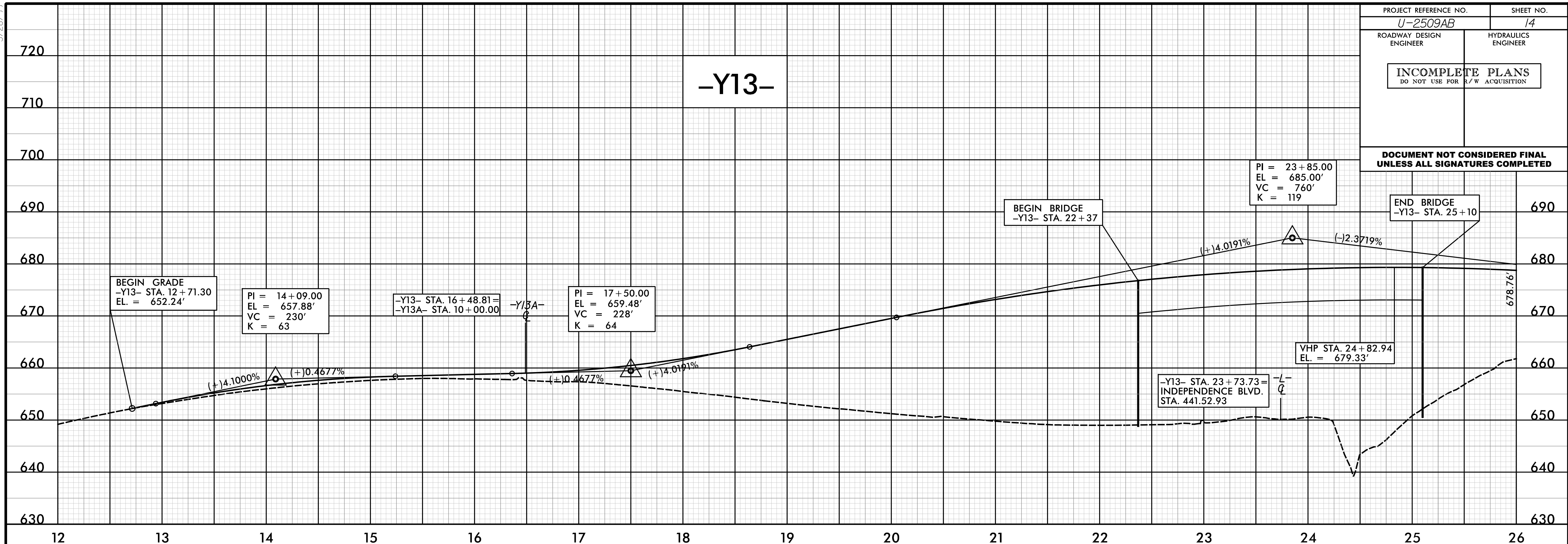
REVISIONS



5/28/99

PROJECT REFERENCE NO. U-2509AB	SHEET NO. 14
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

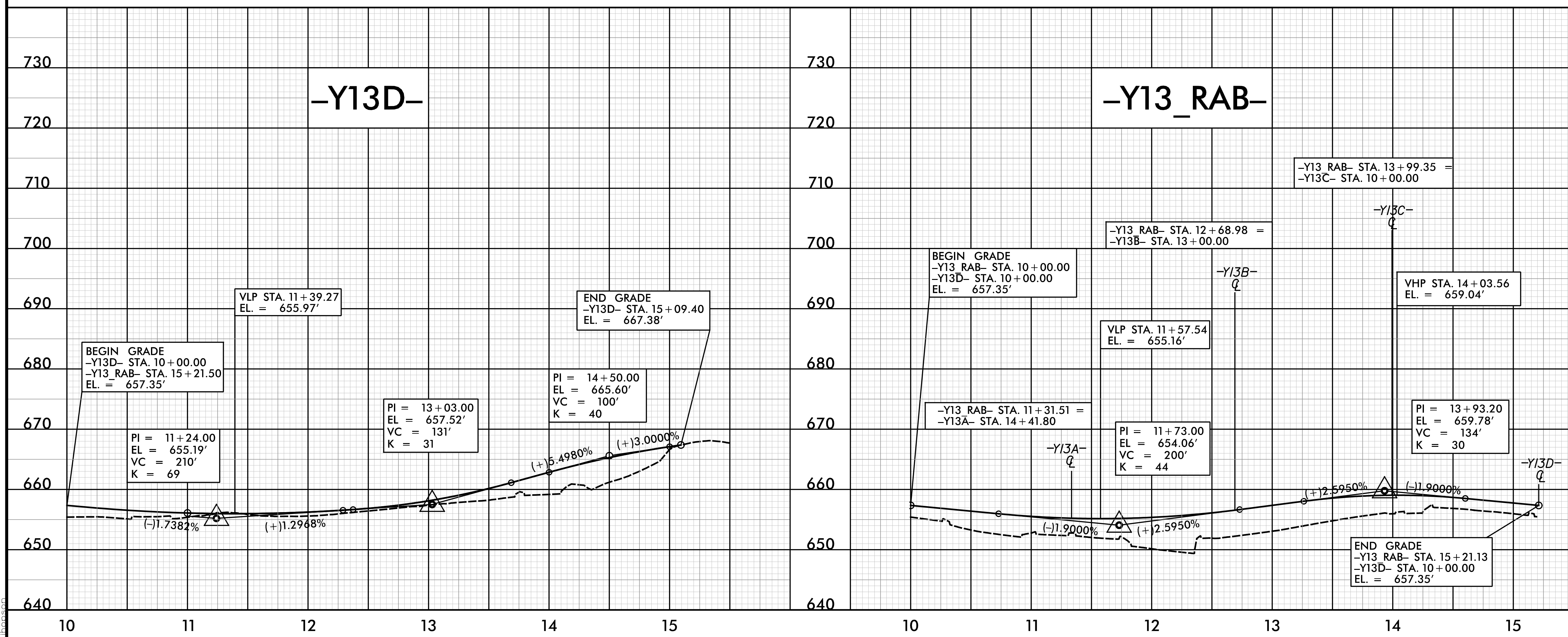
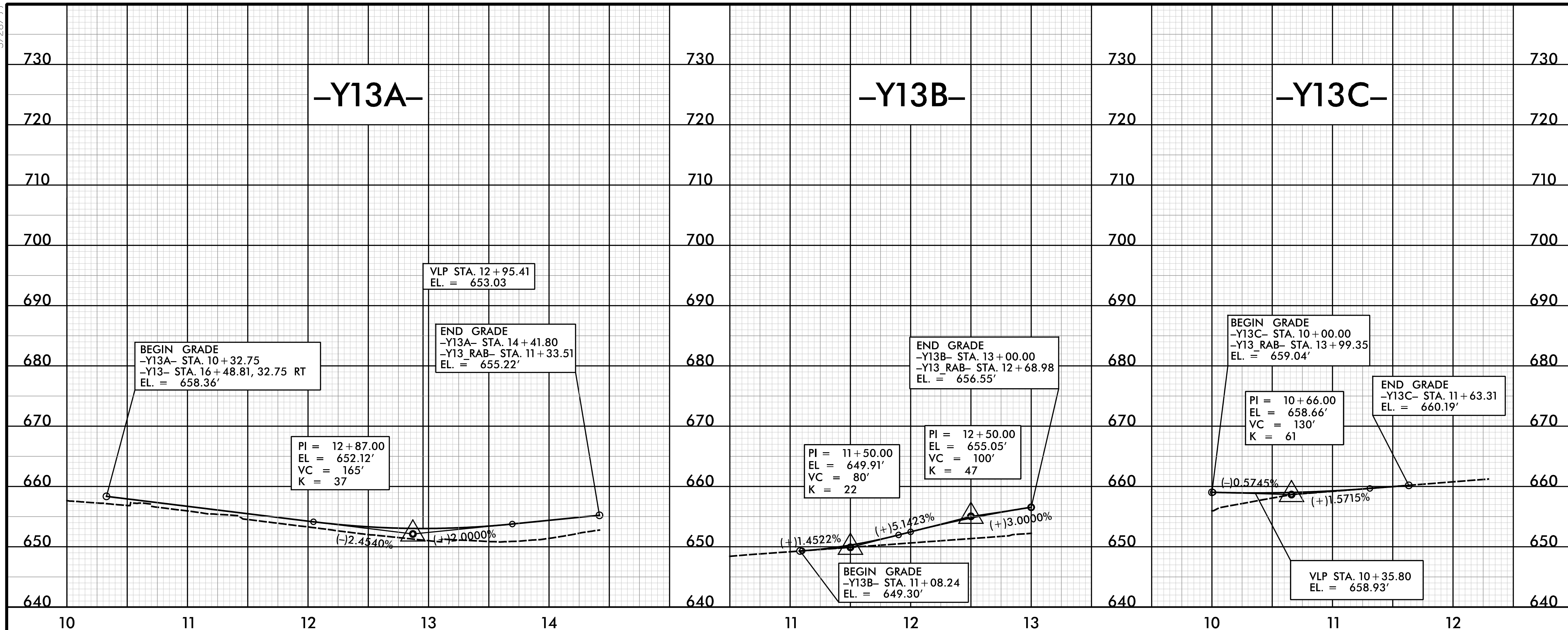


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PROJECT REFERENCE NO. U-2509AB	SHEET NO. 15
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

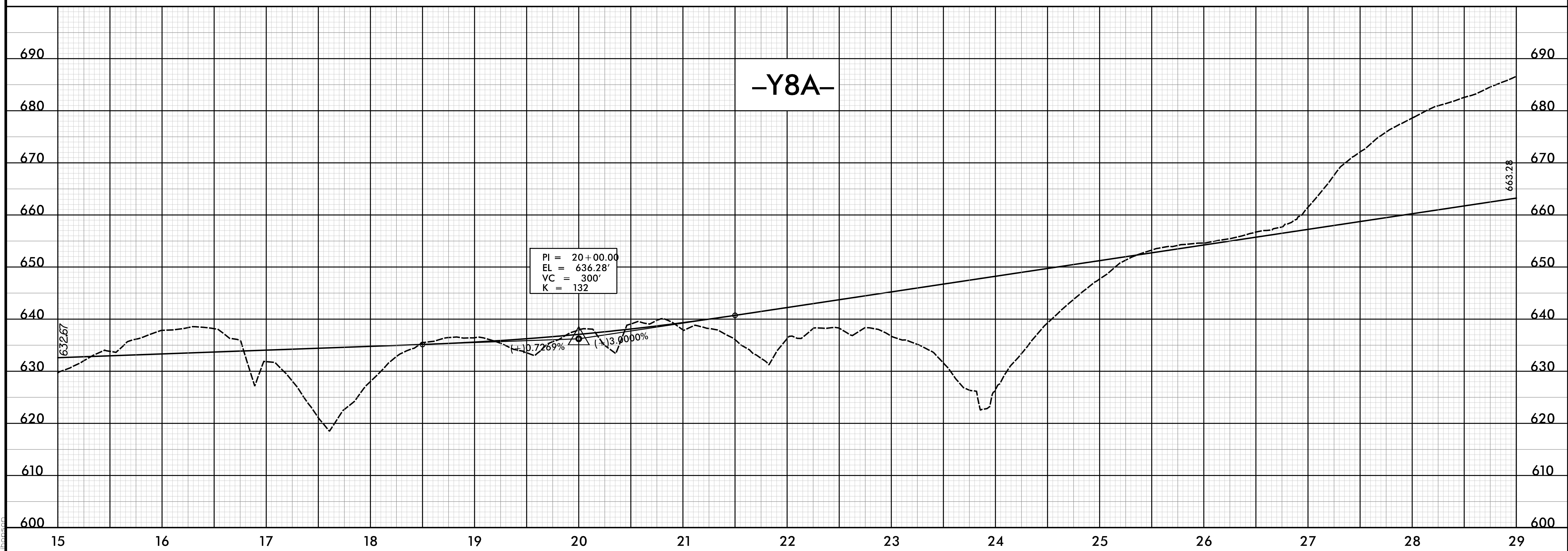
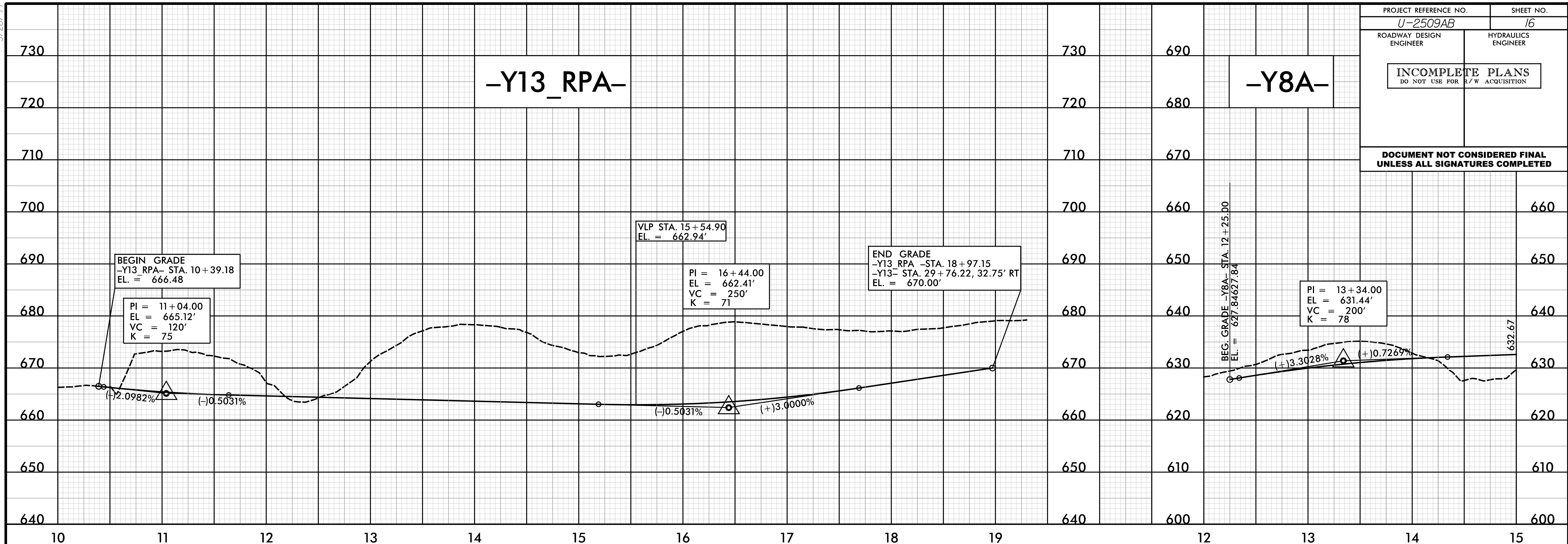


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PROJECT REFERENCE NO. U-2509AB	SHEET NO. 16
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	

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

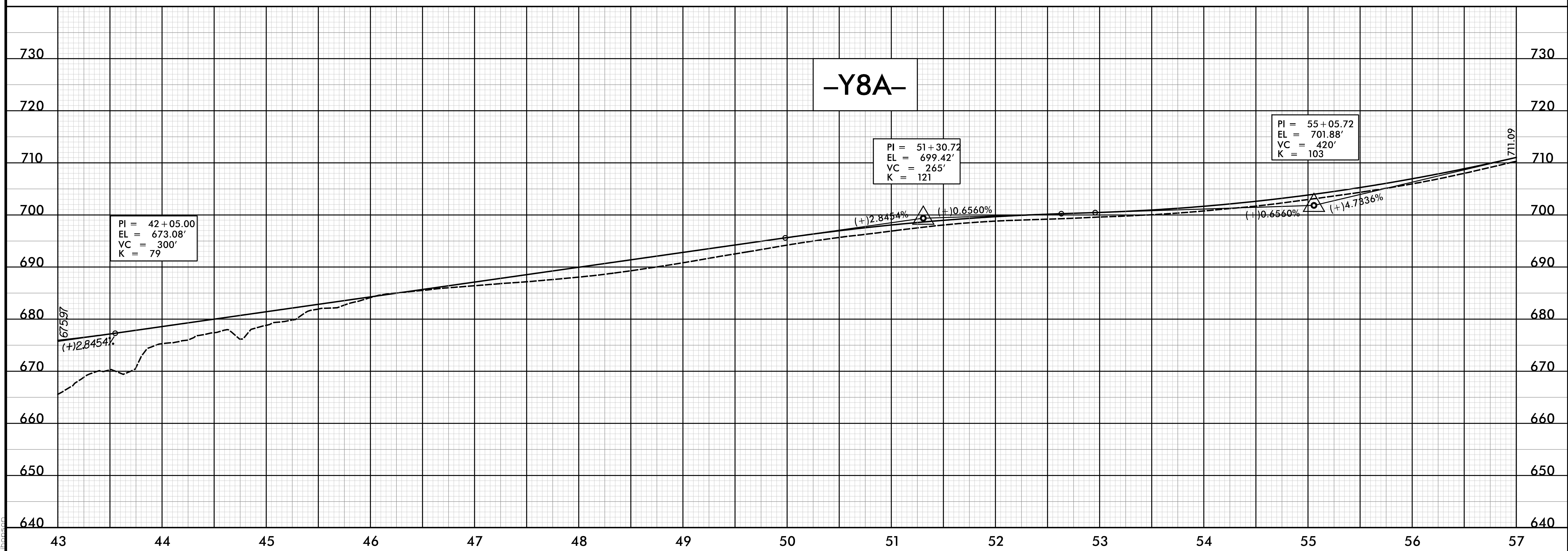
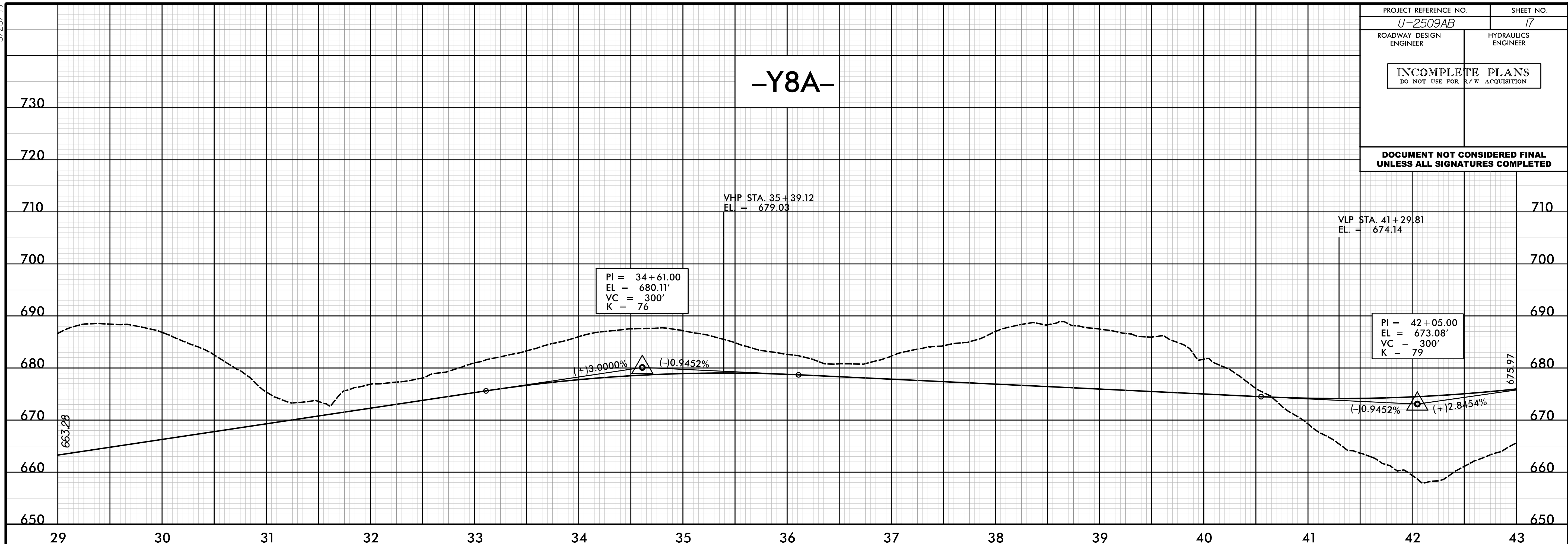


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PROJECT REFERENCE NO. U-2509AB	SHEET NO. 17
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	

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

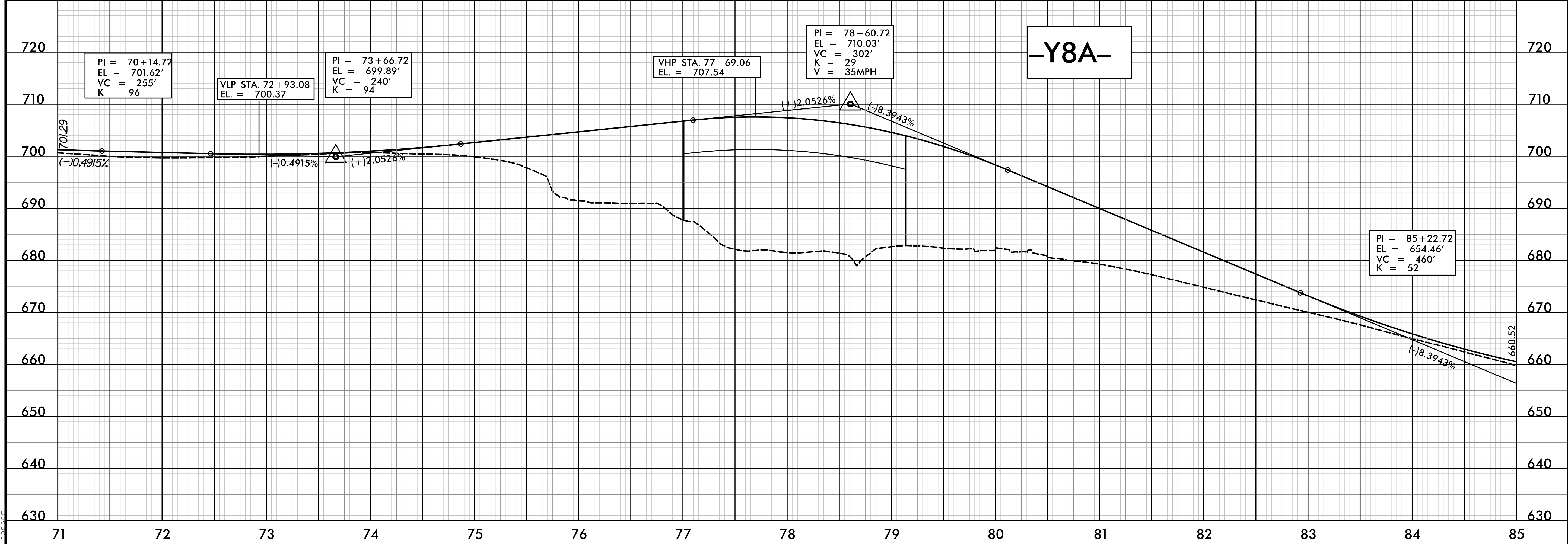
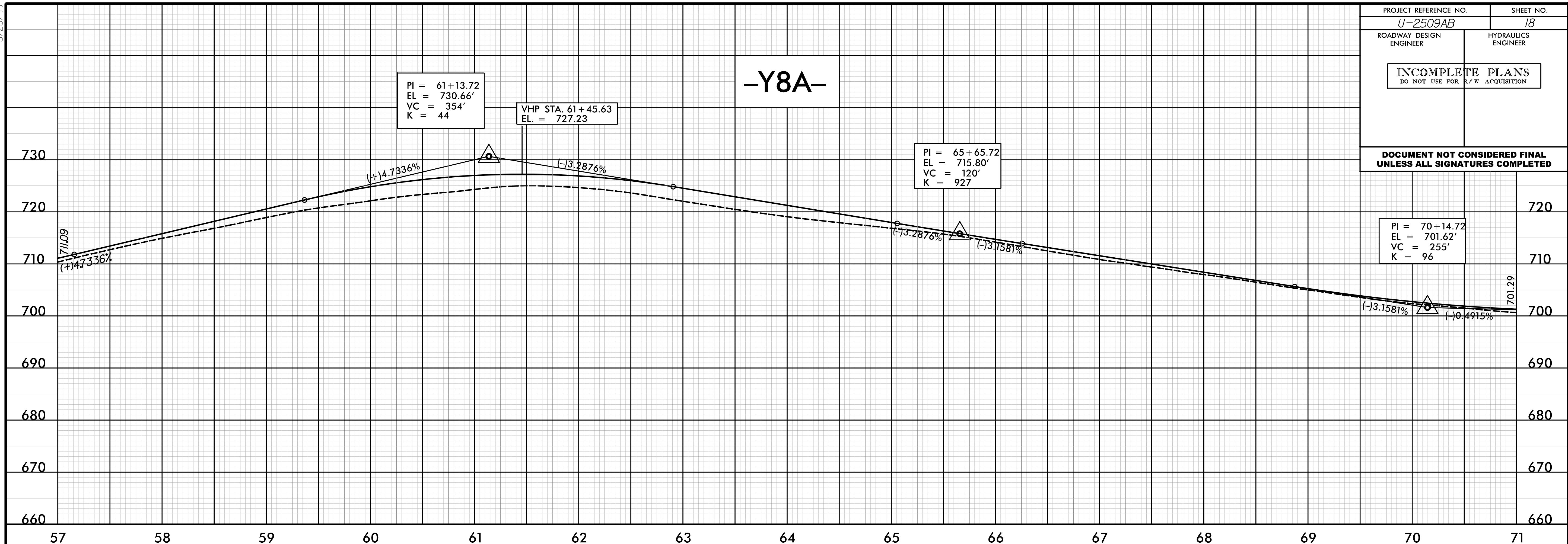


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PROJECT REFERENCE NO. U-2509AB	SHEET NO. 18
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

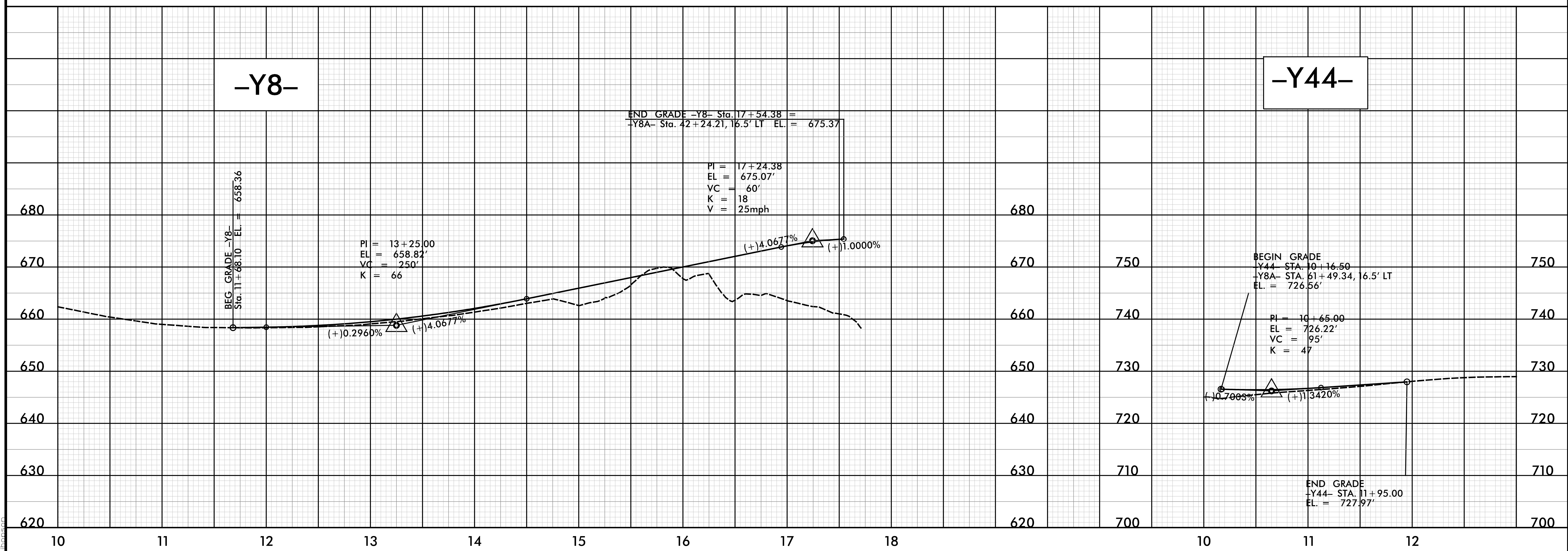
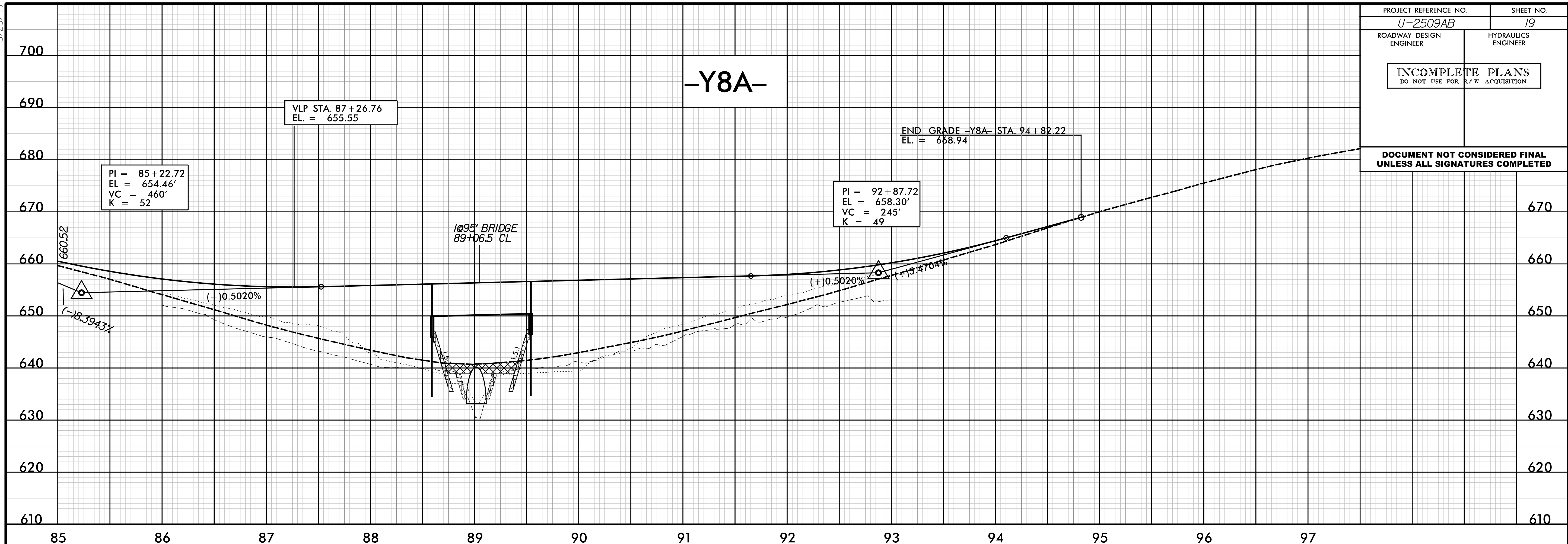


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PROJECT REFERENCE NO. U-2509AB	SHEET NO. 19
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	

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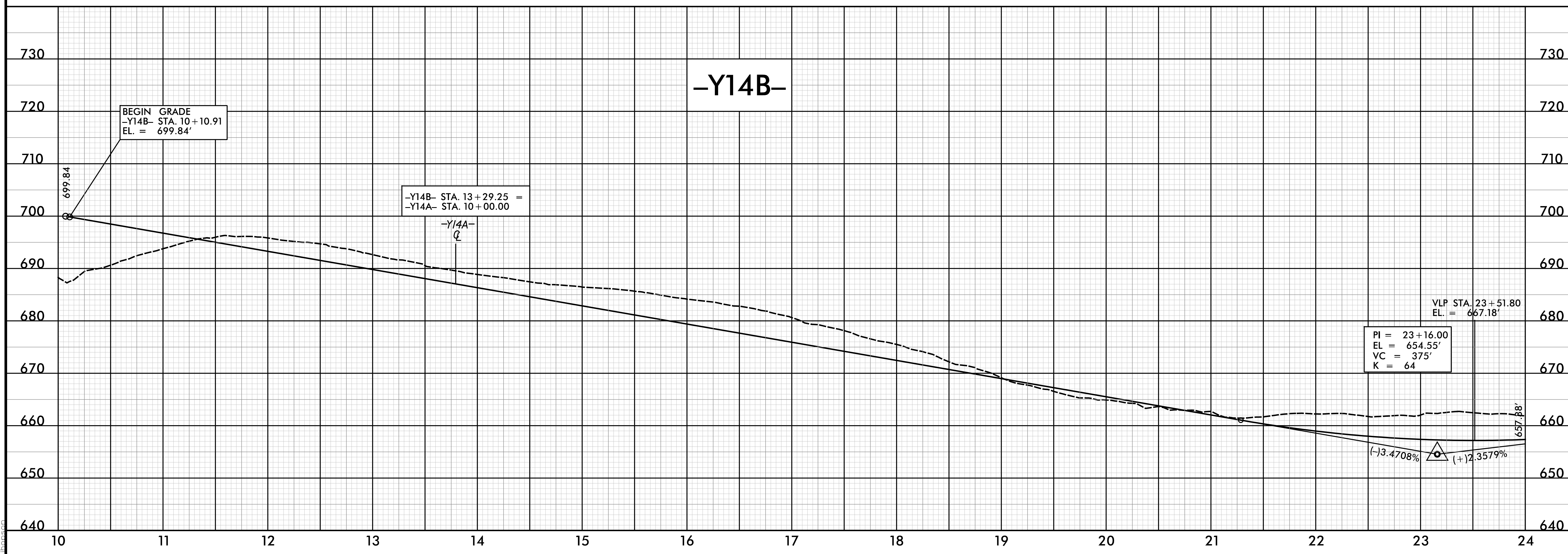
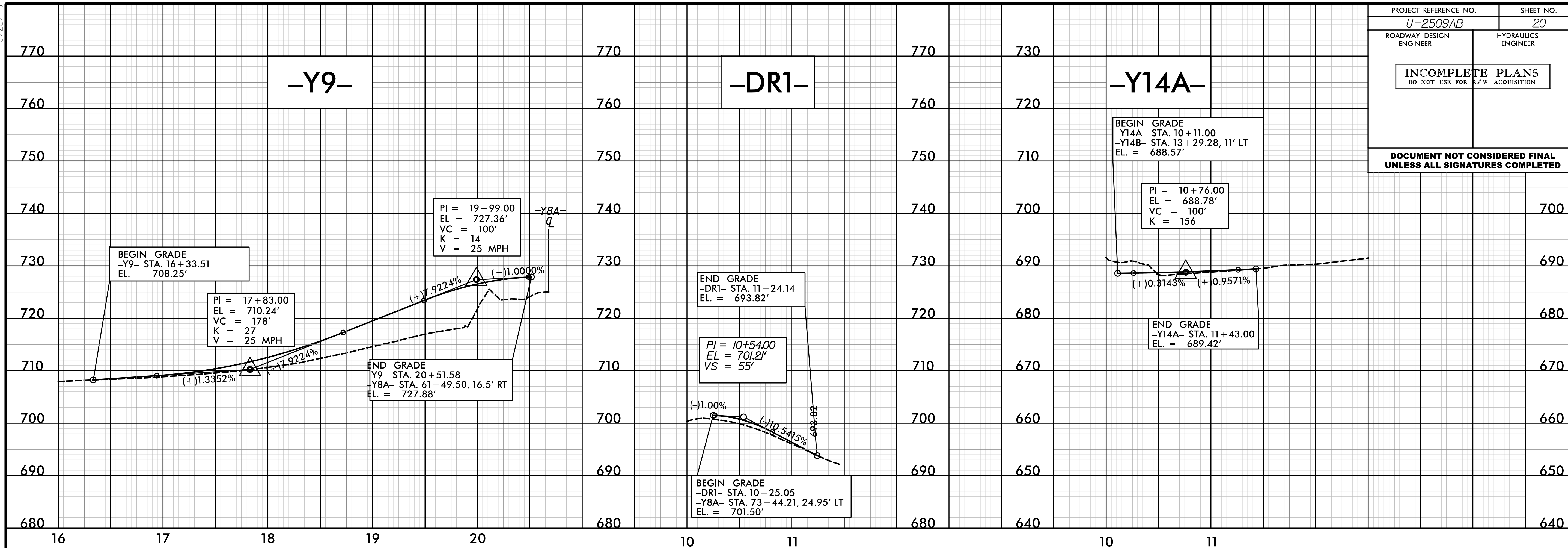


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PROJECT REFERENCE NO. U-2509AB	SHEET NO. 20
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

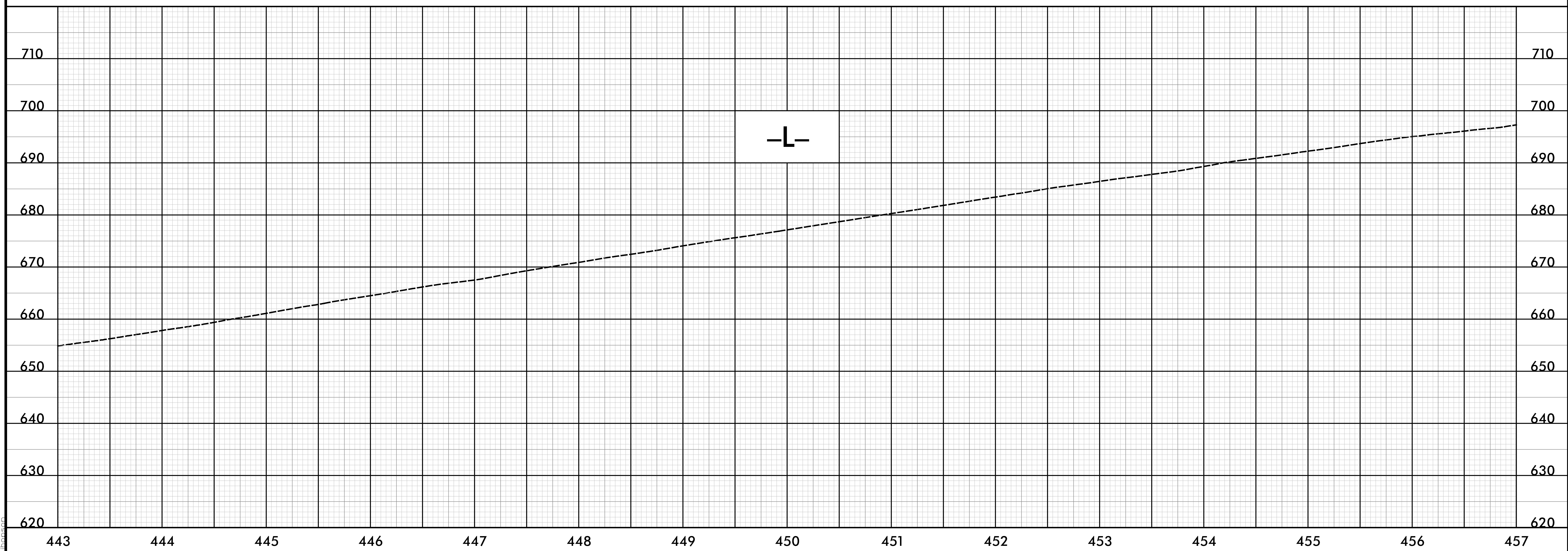
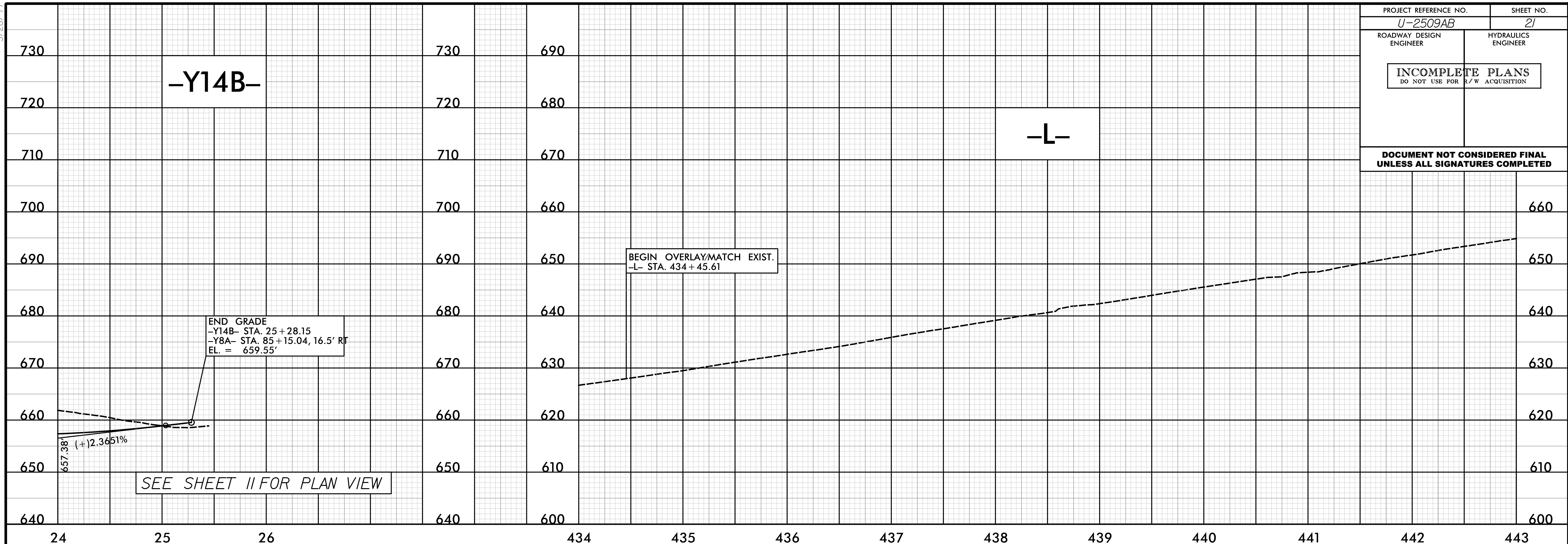


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PROJECT REFERENCE NO. <i>U-2509AB</i>	SHEET NO. <i>21</i>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	

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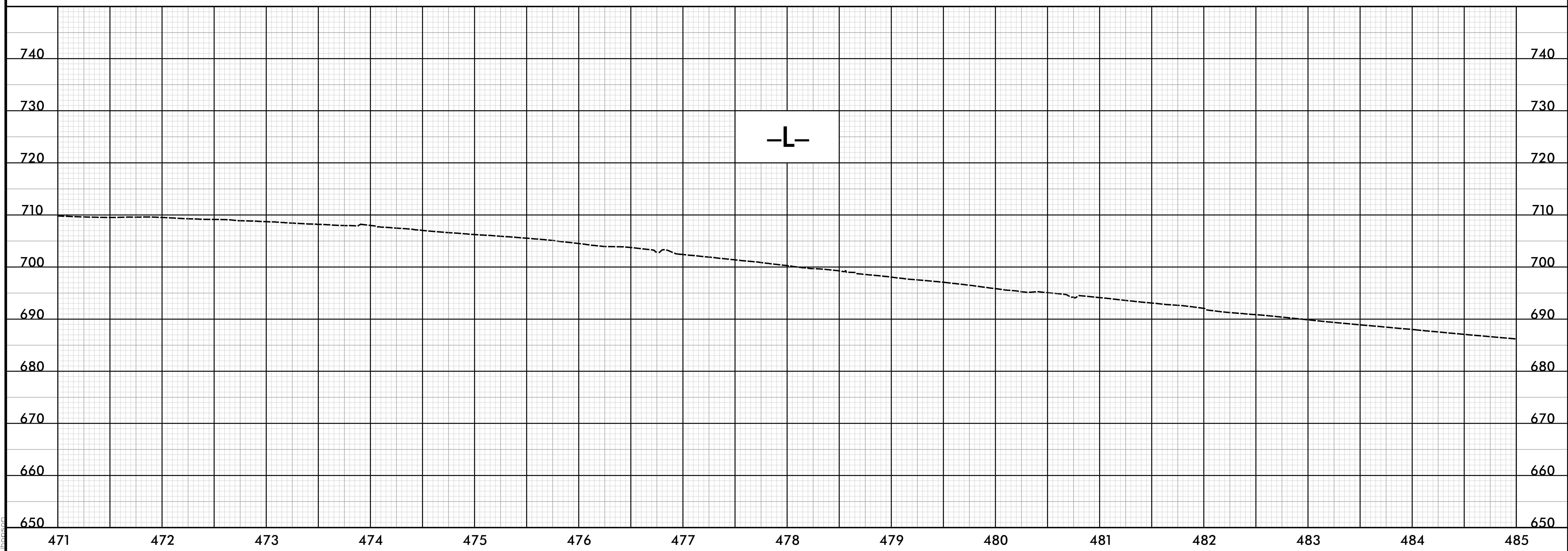
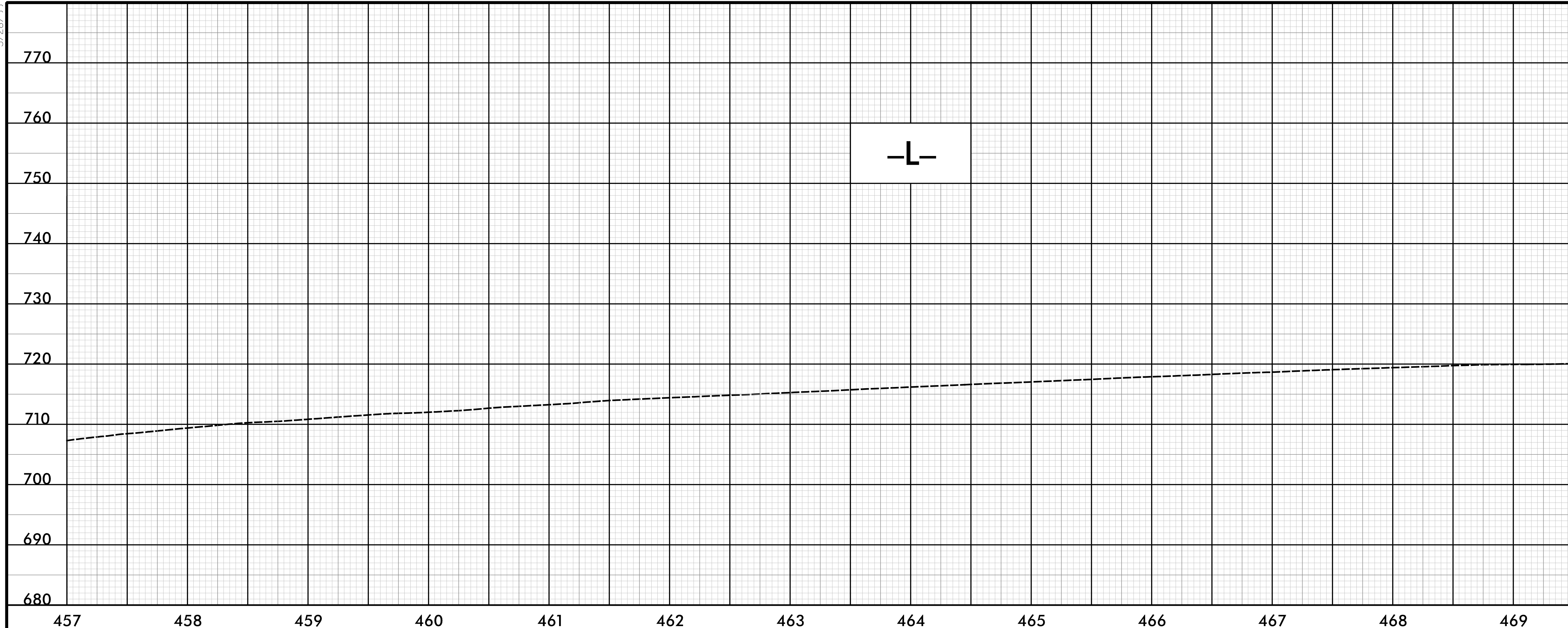


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PROJECT REFERENCE NO. <i>U-2509AB</i>	SHEET NO. <i>22</i>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	

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

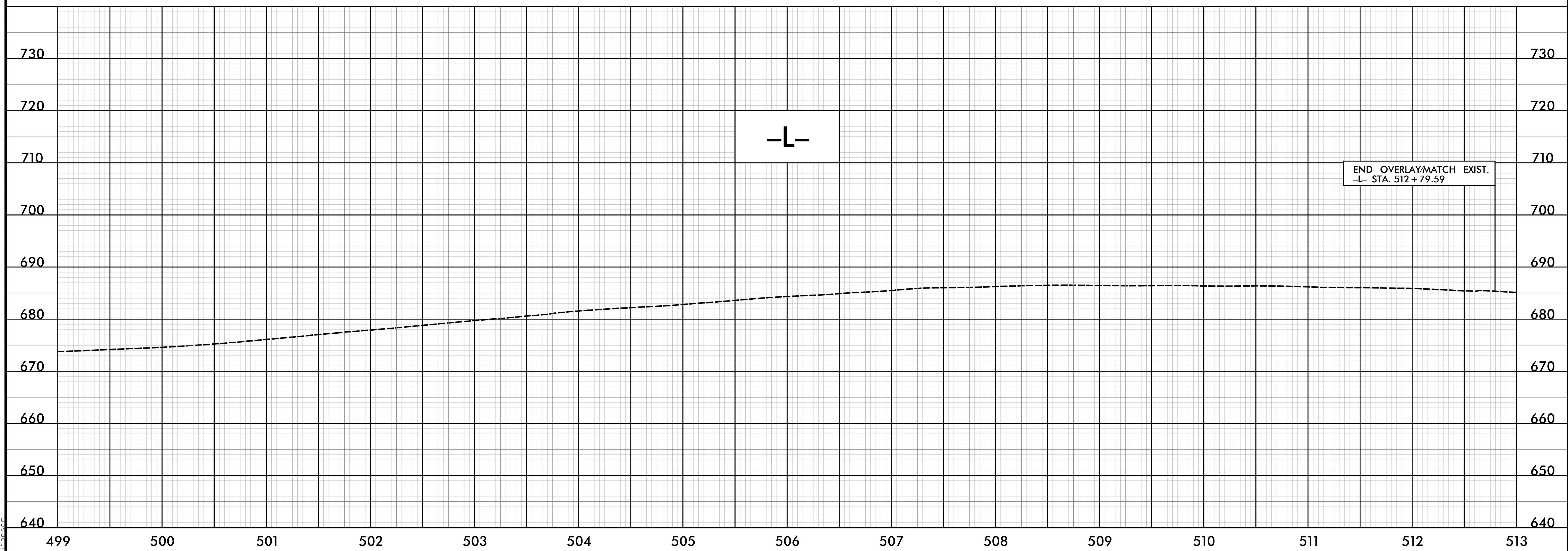
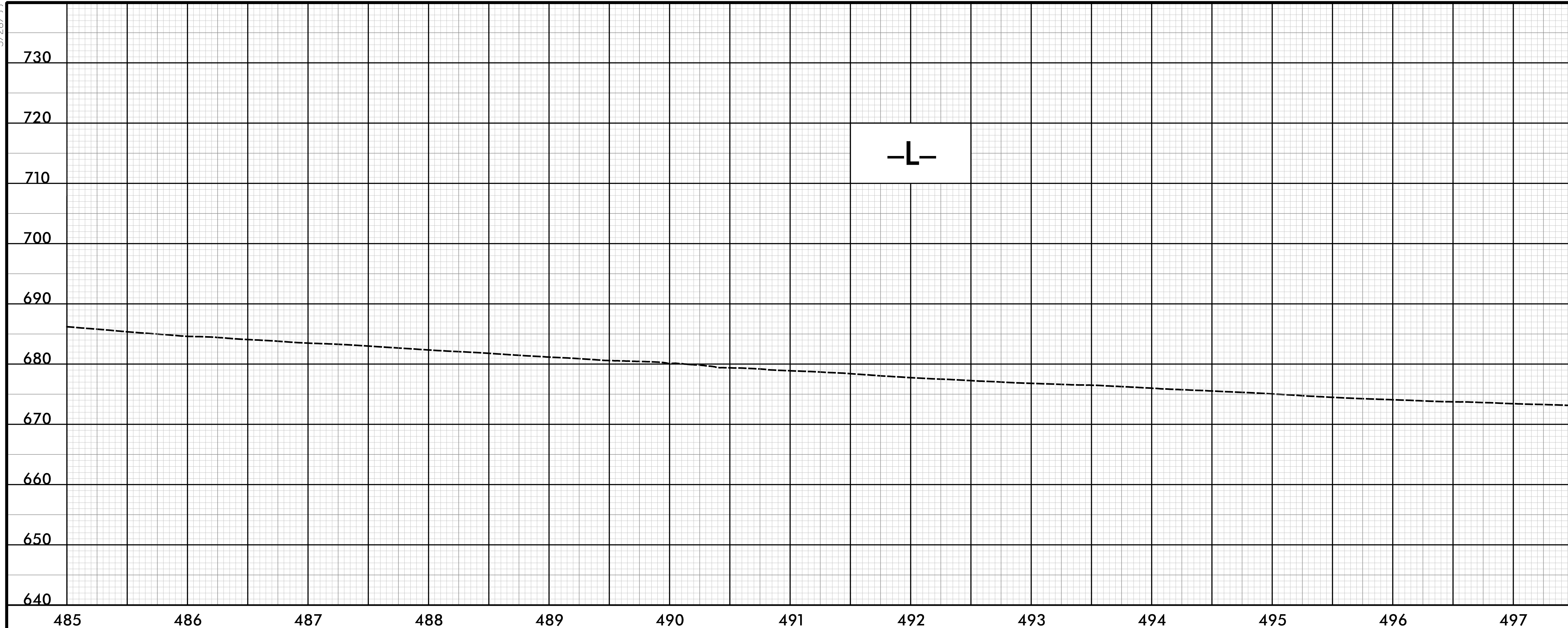


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PROJECT REFERENCE NO. <i>U-2509AB</i>	SHEET NO. <i>23</i>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	

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



END OVERLAY/MATCH EXIST.
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