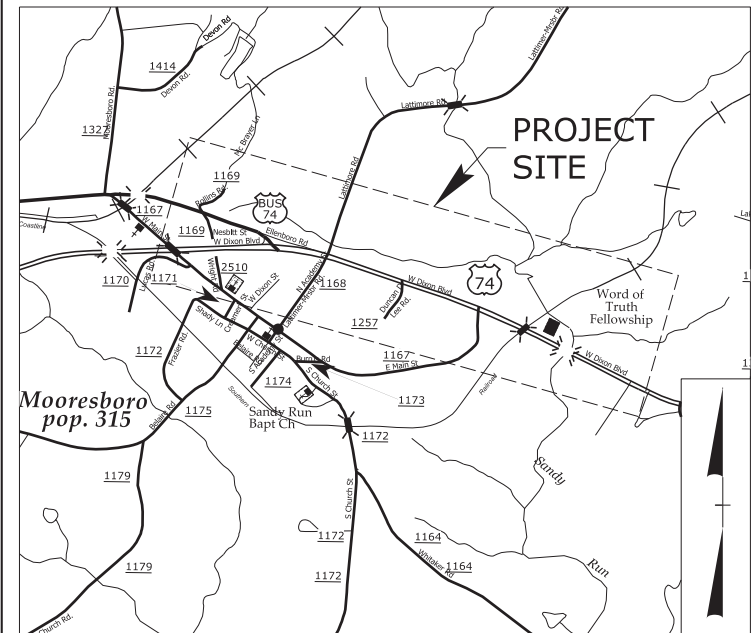


09/20/2024

TIP PROJECT: R-4045/BR-0012

CONTRACT: C204860

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



VICINITY MAP

NOTE: THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES FOR THE TOWN OF MOORESBORO.

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CLEVELAND COUNTY

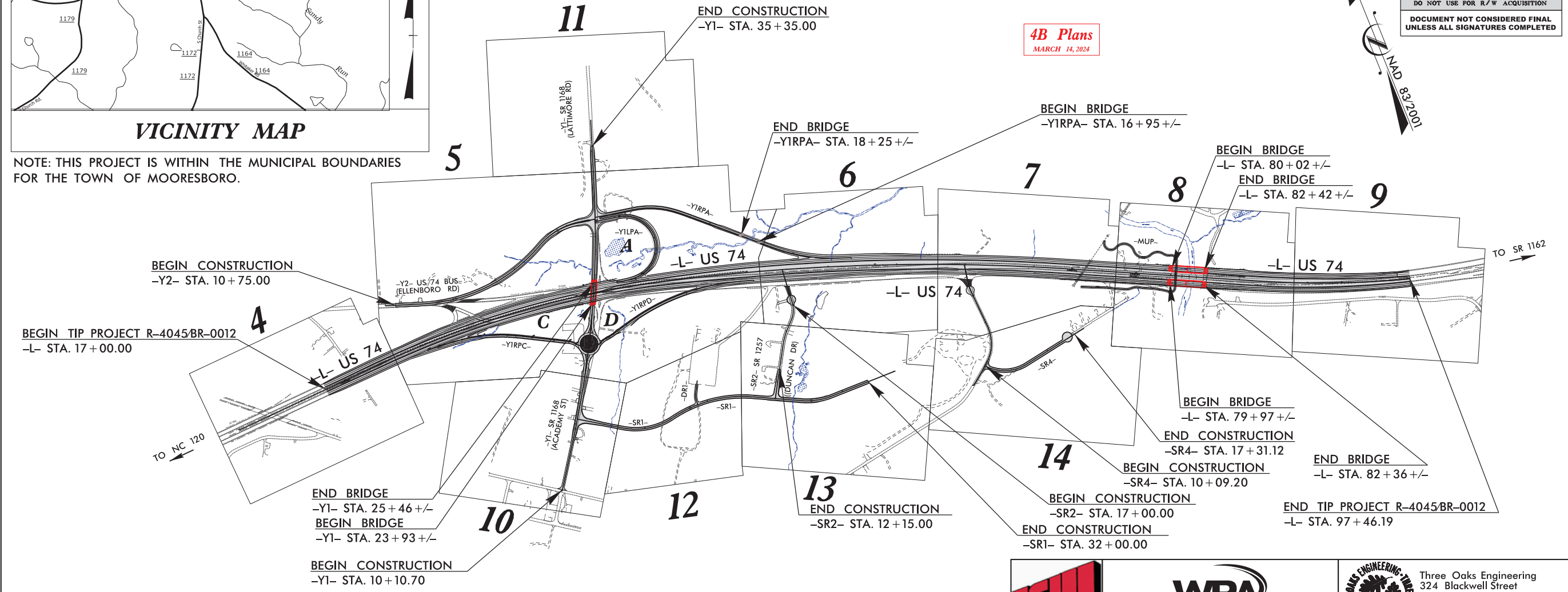
LOCATION: UPGRADE OF US 74 AT SR 1168 (N.ACADEMY ST/LATTIMORE RD)
INTERSECTION TO AN INTERCHANGE AND REPLACEMENT OF
BRIDGE NOS. 220048 AND 220049 ON US 74 OVER SANDY RUN CREEK
TYPE OF WORK: DESIGN-BUILD AS SPECIFIED IN THE SCOPE OF WORK
CONTAINED IN THE REQUEST FOR PROPOSALS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-4045/BR-0012	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
34598.2.2 & 67012.3.1	NHF-74 (4) (R-4045)	CONST.	

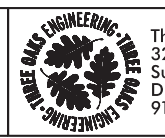
REDLINE DRAINAGE PLANS
SUBMITTAL: S-008
FEBRUARY 9th, 2024

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

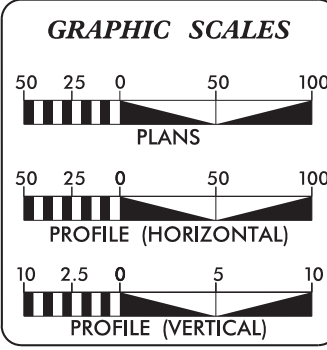
4B Plans
MARCH 14, 2024



THIS IS A CONTROLLED ACCESS PROJECT WITH ACCESS LIMITED BEING LIMITED TO INTERCHANGE.
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.



Three Oaks Engineering
324 Blackwell Street
Suite 1200
Durham, NC 27701
919.732.1300



DESIGN DATA

ADT 2023 =	22,600
ADT 2043 =	30,300
K =	8 %
D =	55 %
T =	15 % *
V =	70 MPH
* TTST =	10% DUAL 5%
FUNC CLASS =	FREWAY/INTERSTATE

PROJECT LENGTH

LENGTH ROADWAY T.I.P. PROJECT R-4045/BR-0012 =	1.479 MILES
LENGTH STRUCTURE T.I.P. PROJECT R-4045/BR-0012 =	0.045 MILES
TOTAL LENGTH OF T.I.P. PROJECT R-4045/BR-0012 =	1.524 MILES

NCDOT CONTACT: ANDY HUSSEY, PE
PROJECT MANAGER,
ALTERNATIVE DELIVERY UNIT

Prepared in the Office of:

SUMMIT
DESIGN AND ENGINEERING SERVICES
FIRM NO. P-0339

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: JULY 20, 2023
BRANDON JOHNSON, PE
PROJECT ENGINEER

LETTING DATE: JULY 20, 2023
DOUGLAS SAUNDERS, PE
DEPUTY PROJECT ENGINEER

HYDRAULICS ENGINEER



SIGNATURE: _____ P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE: _____ P.E.

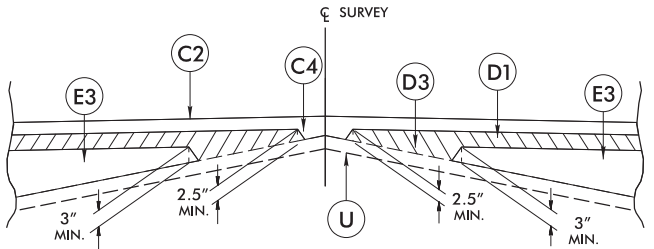


29-FEB-2024 12:56
R-4045_Hyd_Tsh_4B.dgn
he.yang

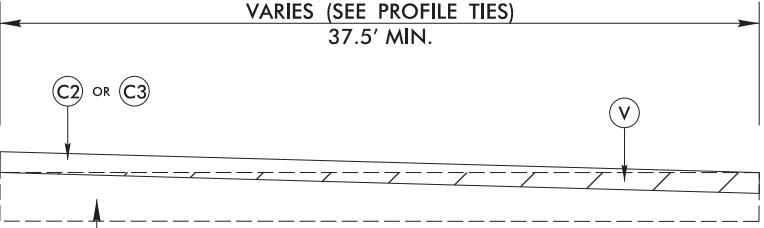
PROJECT REFERENCE NO. <i>R-4045/BR-0012</i>	SHEET NO. <i>2A-1</i>
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Prepared in the Office of: 	NC FIRM LICENSE Nos P-0339 320 Executive Ct. Hillsborough, NC 27278 (919) 732-3883 (919) 732-4616 (fax)
Prepared in the Office of: 	120 Edwards Mill Road, Suite 320, Raleigh, NC 27606 (919) 859-0808

PAVEMENT SCHEDULE					
C1	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.	E3	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 3" IN DEPTH OR GREATER THAN 5 1/2" IN DEPTH.	R6	4" ISLAND COVER
C2	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.	J1	PROP. 8" AGGREGATE BASE COURSE.	R7	12" JOINTED CONCRETE TRUCK APRON W/ 4 X 4 W5.5 X E5.5 WIRE MESH REINFORCEMENT
C3	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 1 1/2" IN DEPTH.	J2	PROP. 6" AGGREGATE BASE COURSE.	T	EARTH MATERIAL.
C4	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1 1/2" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 3" IN DEPTH.	J3	PROP. VAR. DEPTH AGGREGATE BASE COURSE.	U	EXISTING PAVEMENT.
D1	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.	R1	2'-6" CONCRETE CURB AND GUTTER.	V	VARIABLE DEPTH MILLING 0" TO 1.5".
D2	PROP. APPROX. 2 1/2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.	R2	1'-6" CONCRETE CURB AND GUTTER.	W1	VARIABLE DEPTH ASPHALT PAVEMENT (SEE WEDGING DETAIL 1).
D3	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 2 1/2" IN DEPTH OR GREATER THAN 4" IN DEPTH.	R3	5" MONOLITHIC CONCRETE ISLAND, KEYED-IN.	Y	MILLED RUMBLE STRIPS
E1	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.	R4	SHOULDER BERM GUTTER.		
E2	PROP. APPROX. 4 1/2" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 513 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.	R5	9"x18" CURB		

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



WEDGING DETAIL (W1)



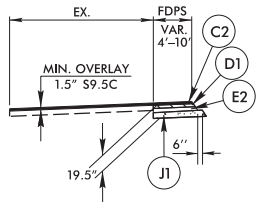
INCIDENTAL MILLING DETAIL
USE MILLING DETAIL AT RESURFACING TIES

6/2/99

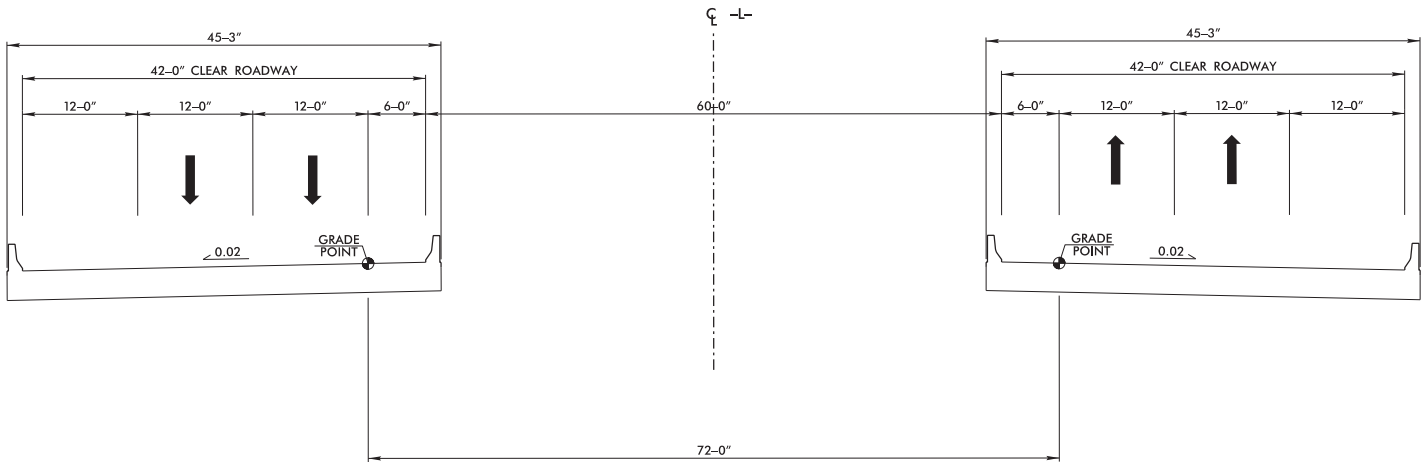
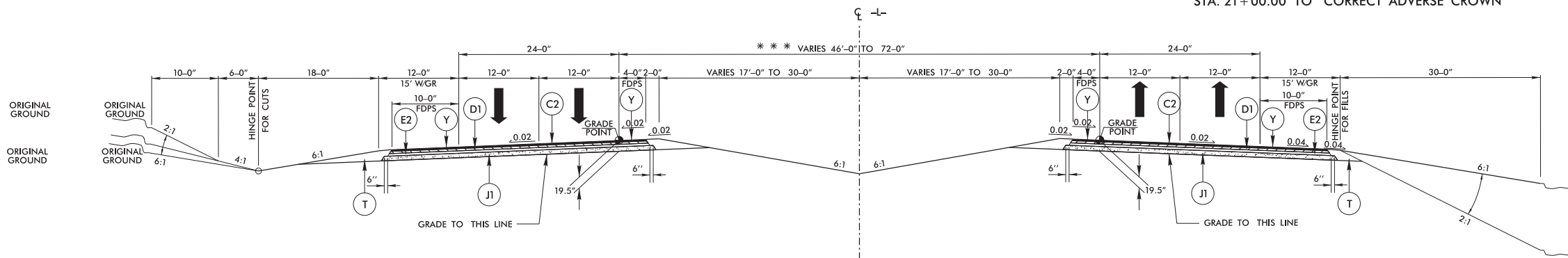
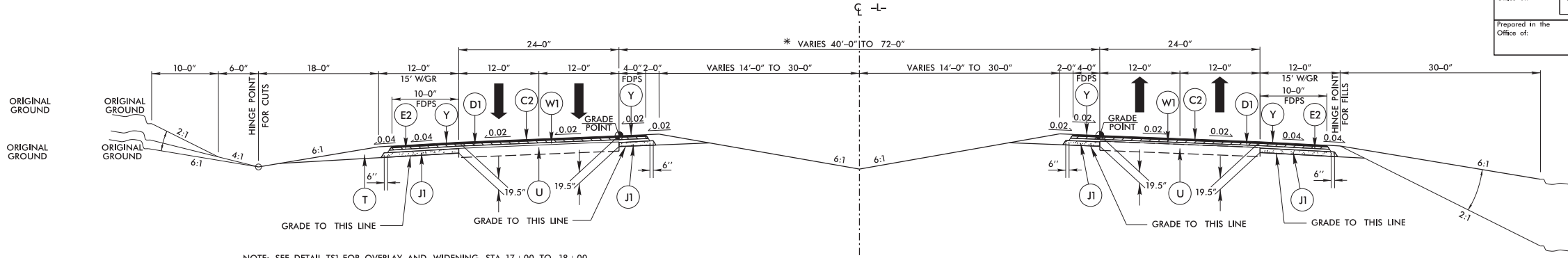
PROJECT REFERENCE NO. R-4045/BR-0012	SHEET NO. 2A-2
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Prepared in the Office of: SUMMIT	NC FIRM LICENSE Nos P-0339 320 Executive Ct. Hillsborough, NC 27278 (919) 732-3883 (919) 732-4416 (Fax)
Prepared in the Office of: WRA	1201 Edwards Mill Road, Suite 320, Raleigh, NC 27606 (919) 859-0808

PAVEMENT SCHEDULE	
C1	3.0" S9.5B
C2	3.0" S9.5C
C3	VAR. S9.5B
C4	VAR. S9.5C
D1	4.0" I19.0C
D2	2.5" I19.0C
D3	VAR. I19.0B
E1	4.0" B25.0C
E2	4.5" B25.0C
E3	VAR. B25.0C
J1	8" ABC
J2	6" ABC
J3	VAR. ABC
R1	2' 6" C&G
R2	1' 6" C&G
R3	5" MONO. ISLAND
R4	SBG
R5	9"x18" CURB
R6	4" ISLAND COVER
R7	12" JC TRUCK APRON
T	EARTH MATERIAL
U	EX. PAVEMENT
V	VAR. MILLING
W1	WEDGING (DTL 1)
Y	MILLED RMBL STR.

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



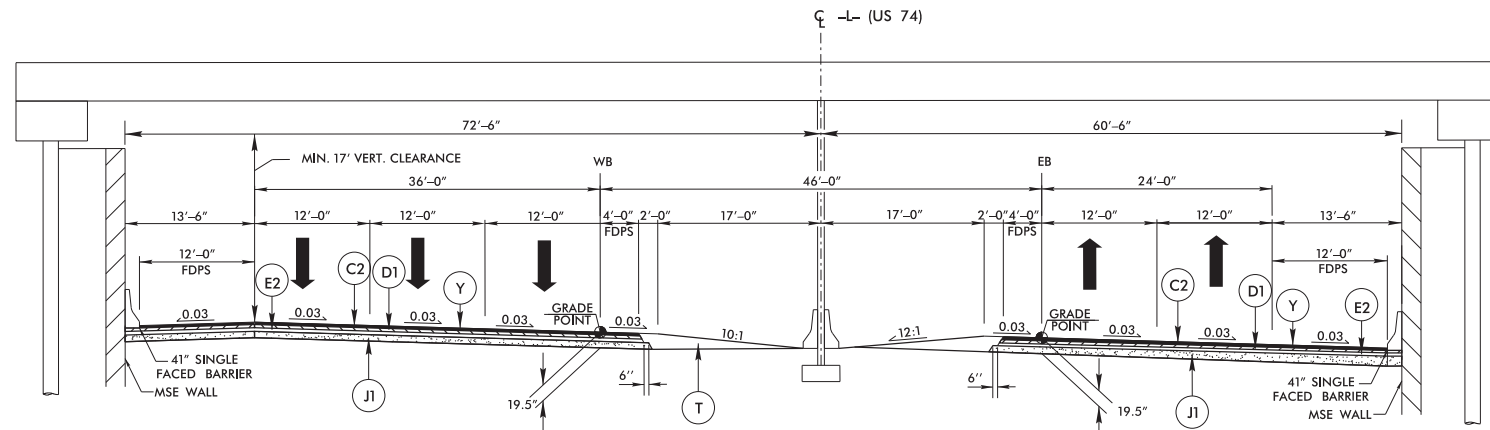
OVERLAY AND WIDENING DETAIL (TS1)
USE IN CONJUNCTION WITH TYPICAL SECTION 1
-L- STA. 17+00.00 TO STA. 18+00.00 EBL & WBL



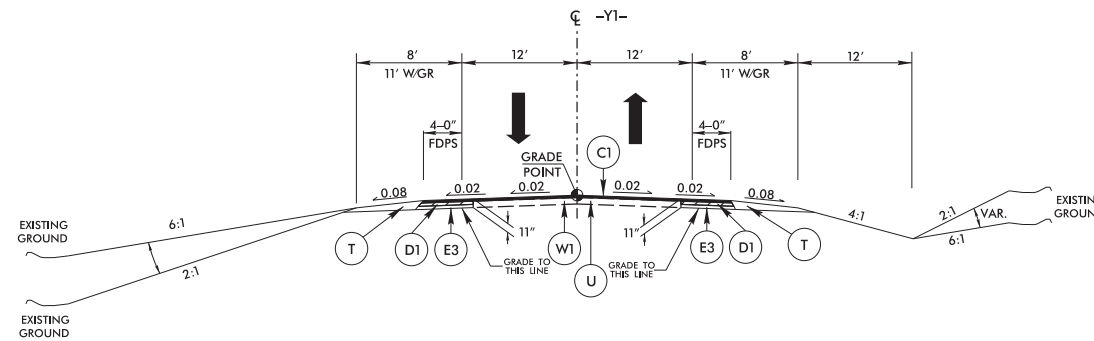
R23.FEB.2004 10:56:56
R23045_Highway-48.dgn
heavaco

PAVEMENT SCHEDULE	
C1	3.0" S9.5B
C2	3.0" S9.5C
C3	VAR. S9.5B
C4	VAR. S9.5C
D1	4.0" I19.0C
D2	2.5" I19.0C
D3	VAR. I19.0B
E1	4.0" B25.0C
E2	4.5" B25.0C
E3	VAR. B25.0C
J1	8" ABC
J2	6" ABC
J3	VAR. ABC
R1	2' 6" C&G
R2	1' 6" C&G
R3	5" MONO. ISLAND
R4	SBG
R5	9"x18" CURB
R6	4" ISLAND COVER
R7	12" JC TRUCK APRON
T	EARTH MATERIAL
U	EX. PAVEMENT
V	VAR. MILLING
W1	WEDGING (DTL 1)
Y	MILLED RMBL STR.

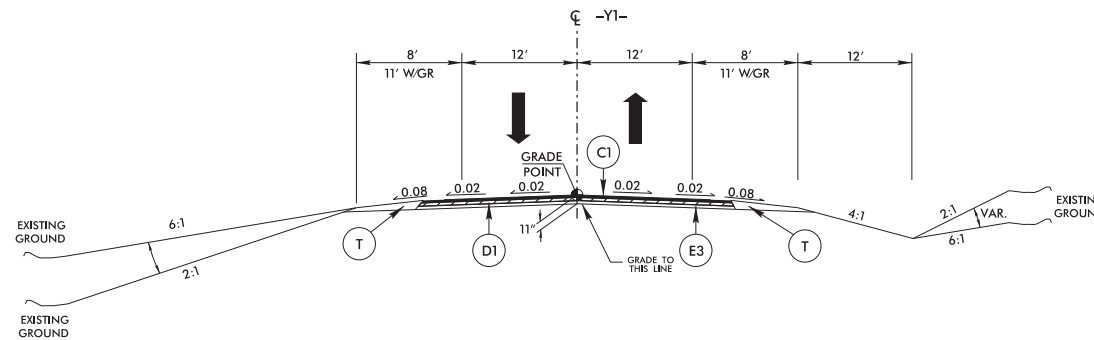
NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.



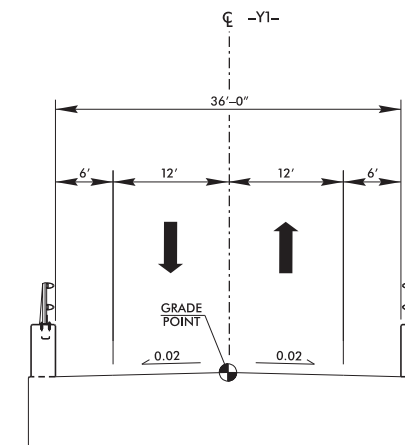
TYPICAL SECTION UNDER STRUCTURE
DISTANCES PERPENDICULAR TO -L-
SEE PLANS FOR SUPERELEVATION TRANSITION



TYPICAL SECTION NO. 3
-Y1- STA. 13+75.00 TO STA. 17+50.00
-Y1- STA. 32+50.00 TO STA. 35+35.00



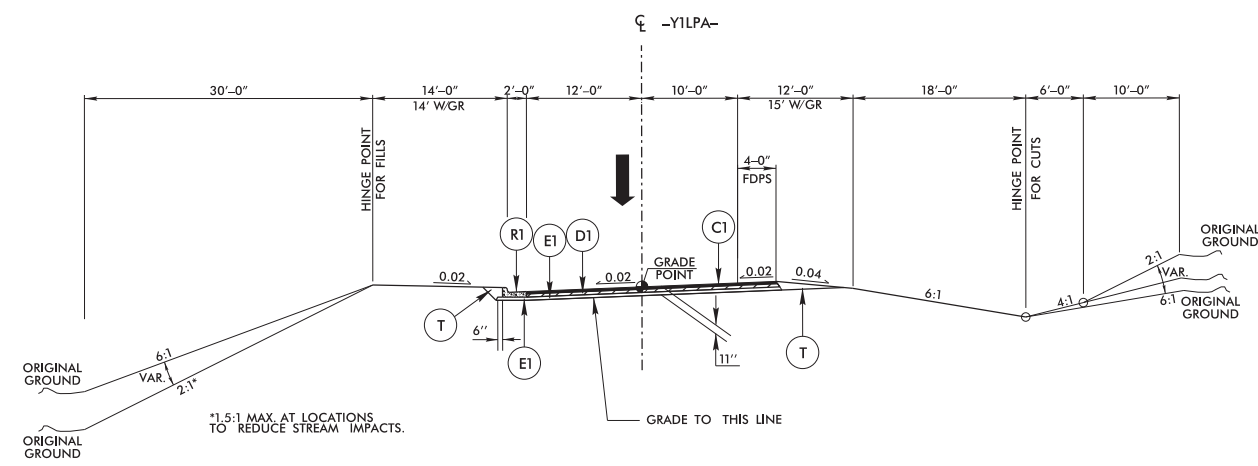
TYPICAL SECTION NO. 4
-Y1- STA. 17+50.00 TO STA. 23+93+/- (BEGIN BRIDGE)
-Y1- STA. 25+46+/- (END BRIDGE) TO STA. 32+50.00



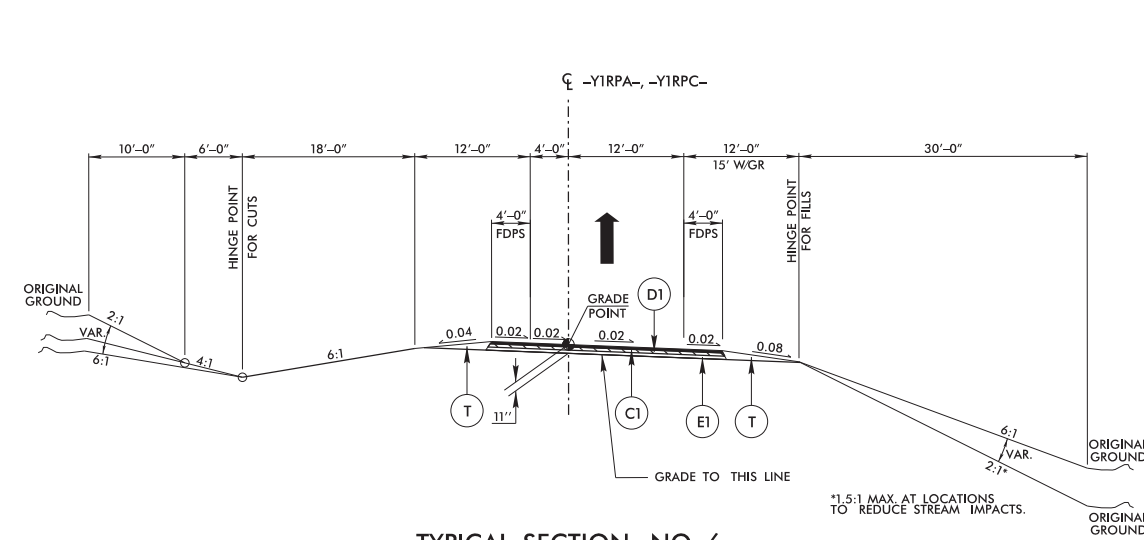
TYPICAL ON STRUCTURE
-Y1- STA. 23+93+/- (BEGIN BRIDGE) TO -Y1- STA. 25+46+/- (END BRIDGE)

PROJECT REFERENCE NO. R-4045/BR-0012	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	
Prepared in the Office of: SUMMIT	NC FIRM LICENSE Nos P-0339 320 Executive Ct. Hillsborough, NC 27278 (919) 732-3883 (919) 732-4416 (fax)
Prepared in the Office of: WRA	1201 Edwards Mill Road, Suite 320, Raleigh, NC 27606 (919) 859-0808

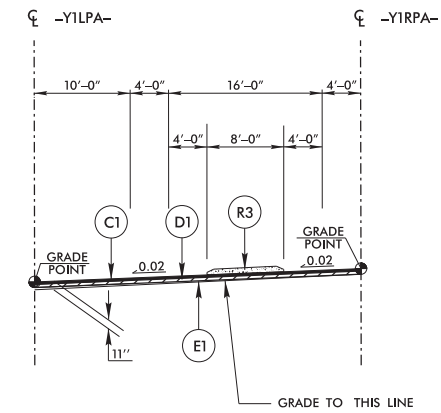
PROJECT REFERENCE NO. <i>R-4045/BR-0012</i>	SHEET NO. <i>2A-4</i>
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Prepared in the Office of: SUMMIT	NC FIRM LICENSE Nos P-0339 320 Executive Ct. Hillsborough, NC 27278 (919) 732-3883 (919) 732-4416 (FAX)
Prepared in the Office of: WRA	1201 Edwards Mill Road, Suite 320, Raleigh, NC 27606 (919) 859-0808



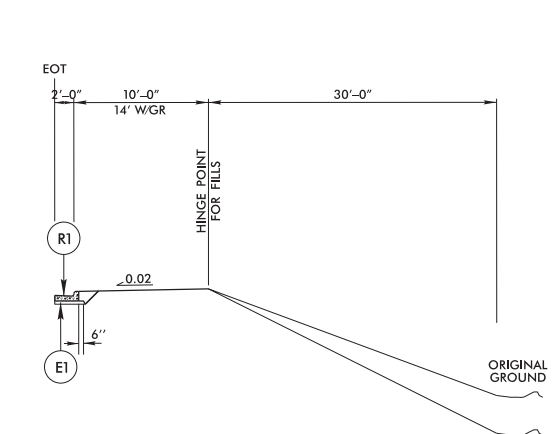
TYPICAL SECTION NO. 5
-Y1LPA- STA. 10+00.00 TO STA. 19+82.43



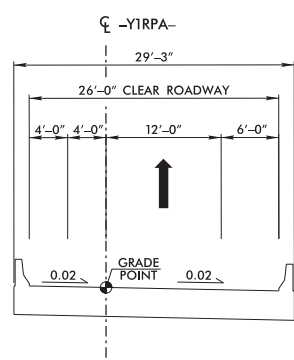
TYPICAL SECTION NO. 6
-Y1RPA- STA. 10+00.00 TO STA. 16+95+/- (BEGIN BRIDGE)
-Y1RPA- STA. 18+25+/- (END BRIDGE) TO STA. 29+20.44
-Y1RPC- STA. 10+00.00 TO STA. 21+16.57



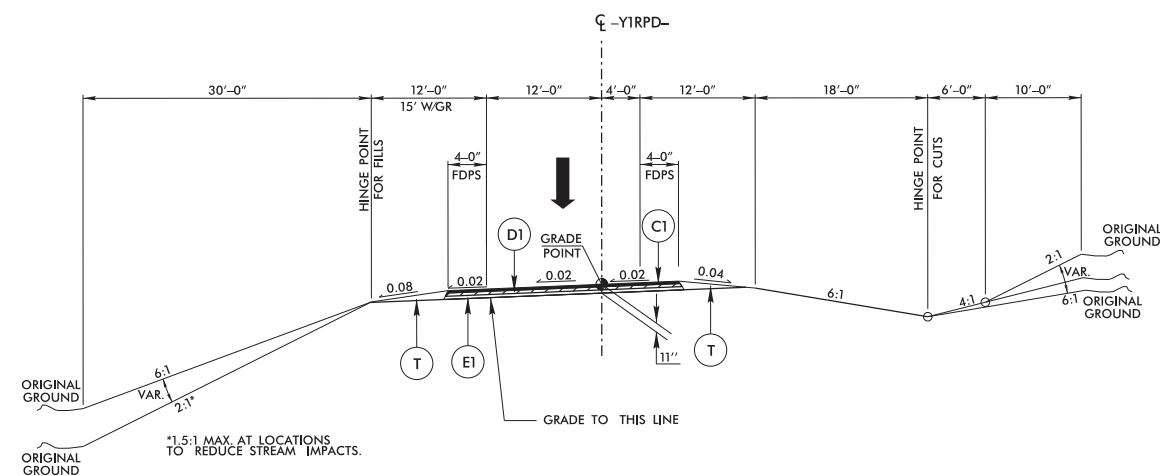
PARTIAL TYPICAL
USE IN CONJUNCTION WITH
TYPICAL SECTION NO. 5 & 6
-Y1LPA- STA. 17+81.64 TO STA. 19+54.45
-Y1RPA- STA. 27+21.34 TO STA. 28+98.08



PARTIAL TYPICAL
USE IN CONJUNCTION WITH
TYPICAL SECTION NO. 6 & 7
-Y1RPC- STA. 20+13.03 TO STA. 21+06.87 LT
-Y1RPC- STA. 20+13.02 TO STA. 21+32.66 RT
-Y1RPD- STA. 20+62.61 TO STA. 22+52.62 LT
-Y1RPD- STA. 20+83.98 TO STA. 22+19.27 RT



TYPICAL SECTION ON STRUCTURE
-Y1RPA- STA. 16+95+/- (BEGIN BRIDGE) TO -Y1RPA- STA. 18+25+/- (END BRIDGE)

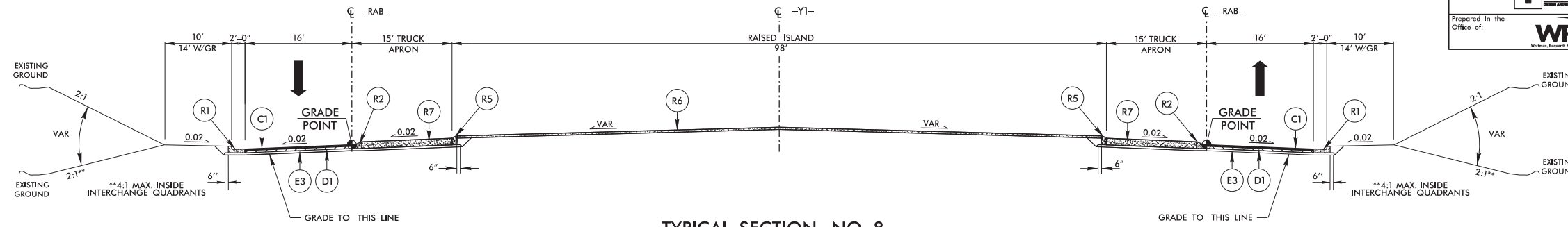


TYPICAL SECTION NO. 7
-Y1RPD- STA. 10+00.00 TO STA. 22+34.20

PAVEMENT SCHEDULE	
C1	3.0" S9.5B
C2	3.0" S9.5C
C3	VAR. S9.5B
C4	VAR. S9.5C
D1	4.0" I19.0C
D2	2.5" I19.0C
D3	VAR. I19.0B
E1	4.0" B25.0C
E2	4.5" B25.0C
E3	VAR. B25.0C
J1	8" ABC
J2	6" ABC
J3	VAR. ABC
R1	2' 6" C&G
R2	1' 6" C&G
R3	5" MONO. ISLAND
R4	SBG
R5	9"x18" CURB
R6	4" ISLAND COVER
R7	12" JC TRUCK APRON
T	EARTH MATERIAL
U	EX. PAVEMENT
V	VAR. MILLING
W1	WEDGING (DTL 1)
Y	MILLED RMBL STR.

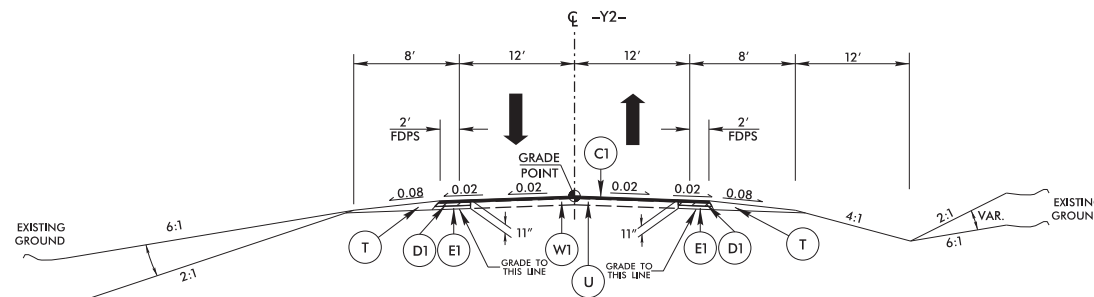
NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.

PROJECT REFERENCE NO. R-4045/BR-0012	SHEET NO. 2A-5
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Prepared in the Office of: SUMMIT	NC FIRM LICENSE Nos P-0339 320 Executive Ct. Hillsborough, NC 27278 (919) 732-3883 (919) 732-4416 (fax)
Prepared in the Office of: WRA	1201 Edwards Mill Road, Suite 320, Raleigh, NC 27606 (919) 859-0808



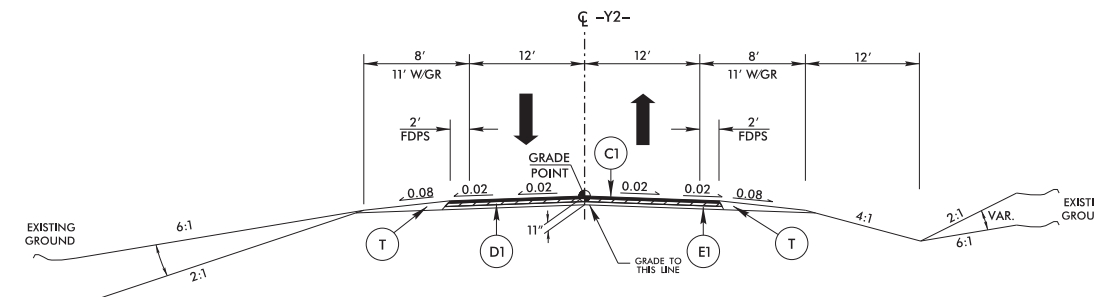
TYPICAL SECTION NO. 8

-RAB- STA. 10+00 TO -RAB- STA. 14+02.12



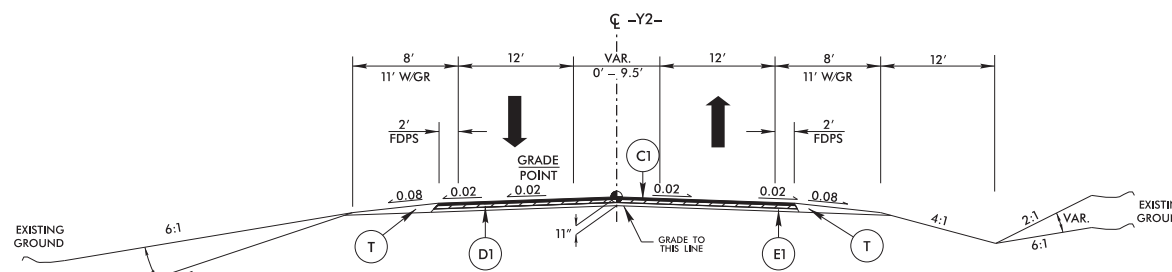
TYPICAL SECTION NO. 9

-Y2- STA. 11+00.00 TO STA. 15+50.00



TYPICAL SECTION NO. 10

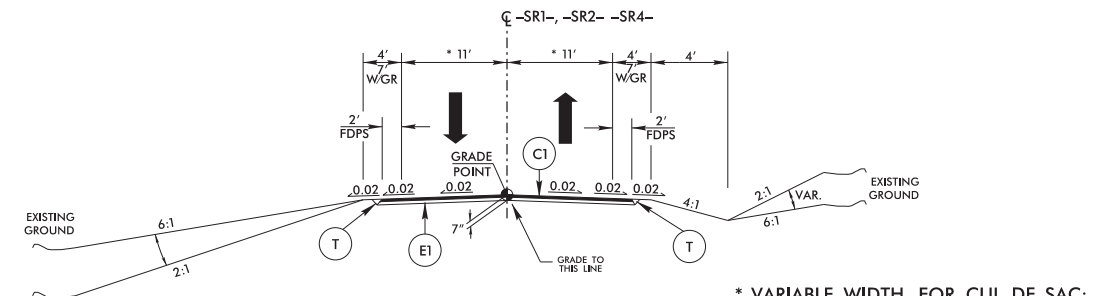
-Y2- STA. 15+50.00 TO STA. 23+25.00



TYPICAL SECTION NO. 11

-Y2- STA. 23+25.00 TO STA. 27+00.00

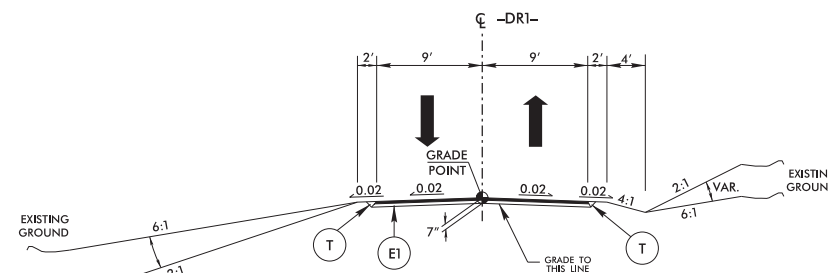
*RAISED MEDIAN ISLAND FROM
-Y2- STA. 26+00.00 TO STA. 26+75.00
(SEE PLANS)



TYPICAL SECTION NO. 12

-SR1- STA. 10+12.00 TO STA. 32+00.00
-SR2- STA. 10+11.00 TO STA. 12+15.00
-SR4- STA. 10+09.23 TO STA. 17+11.97

* VARIABLE WIDTH FOR CUL-DE-SAC:
-SR4- STA. 16+42.38 TO STA. 17+11.97

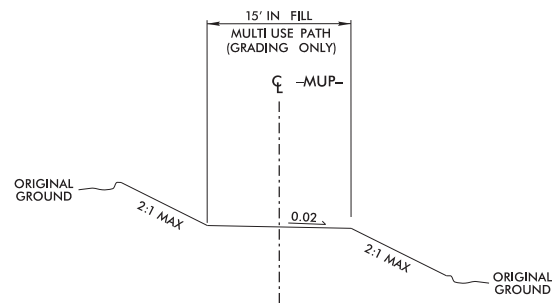


TYPICAL SECTION NO. 13

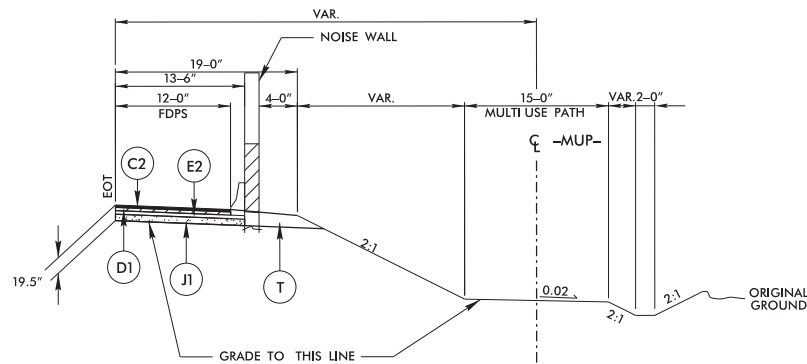
-DR1- STA. 10+10.00 TO STA. 11+52.00

PAVEMENT SCHEDULE	
C1	3.0" S9.5B
C2	3.0" S9.5C
C3	VAR. S9.5B
C4	VAR. S9.5C
D1	4.0" I19.0C
D2	2.5" I19.0C
D3	VAR. I19.0B
E1	4.0" B25.0C
E2	4.5" B25.0C
E3	VAR. B25.0C
J1	8" ABC
J2	6" ABC
J3	VAR. ABC
R1	2' 6" C&G
R2	1' 6" C&G
R3	5" MONO. ISLAND
R4	SBG
R5	9"x18" CURB
R6	4" ISLAND COVER
R7	12" JC TRUCK APRON
T	EARTH MATERIAL
U	EX. PAVEMENT
V	VAR. MILLING
W1	WEDGING (DTL 1)
Y	MILLED RMBL STR.

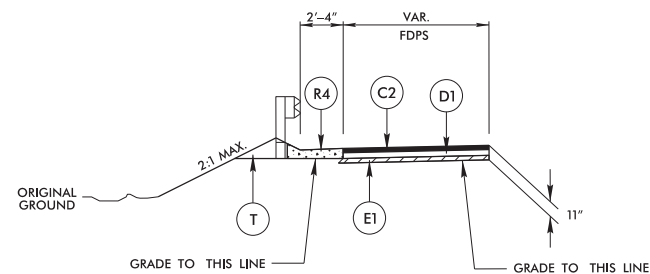
NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.



TYPICAL SECTION NO. 14
-MUP- STA. 10+00.00 TO STA. 19+23.21



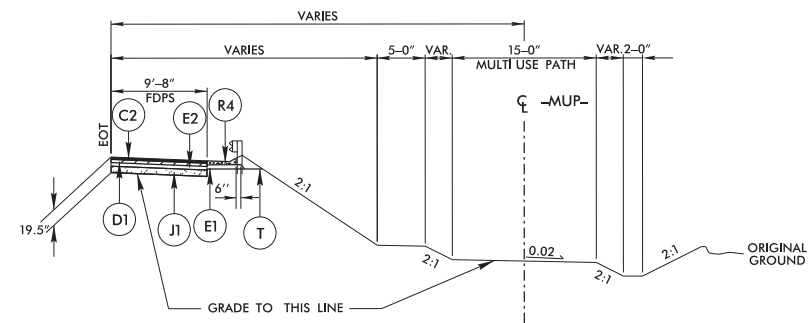
TYPICAL SECTION NO. 16
-MUP- STA. 20+94.10 TO STA. 25+74.55



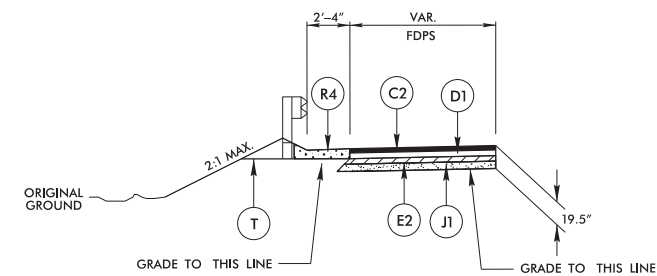
SHOULDER BERM GUTTER DETAIL 2
GUARDRAIL WHERE SHOULDER BERM GUTTER IS REQUIRED
USE IN CONJUNCTION WITH TYPICALS AT STATIONS:

- Y1- STA. 17+75.10 TO STA. 18+74.34 (LT)
- Y1- STA. 17+75.10 TO STA. 18+98.12 (RT)
- Y1- STA. 22+84.06 TO STA. 23+74.01 (LT)
- Y1- STA. 22+97.40 TO STA. 23+82.88 (RT)
- Y1- STA. 25+55.93 TO STA. 28+82.90 (LT)
- Y1- STA. 25+63.89 TO STA. 29+04.34 (RT)
- Y1- STA. 30+88.23 TO STA. 32+00.00 (LT)
- Y2- STA. 17+00 TO STA. 27+20.26 (LT)
- Y2- STA. 17+00 TO STA. 26+85.08 (RT)
- Y1LPA- STA. 19+32.95 TO STA. 20+13.59 (LT)
- Y1LPA- STA. 12+75.00 TO STA. 15+75.00 (RT)
- Y1RPA- STA. 15+50.00 TO STA. 16+73.27 (LT)
- Y1RPA- STA. 11+92.00 TO STA. 16+59.56 (RT)
- Y1RPA- STA. 18+54.67 TO STA. 20+50.00 (LT)
- Y1RPA- STA. 18+40.85 TO STA. 19+50.00 (RT)
- Y1RPD- STA. 19+75.02 TO STA. 20+64.19 (LT)

NOTE: SBG ON THE HIGH SIDE OF A CURVE SHALL MATCH THE SLOPE OF THE SUPERELEVATED PAVEMENT.



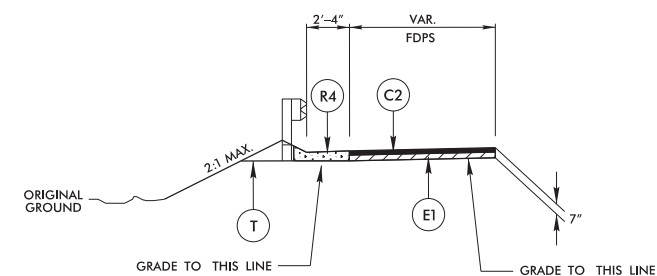
TYPICAL SECTION NO. 15
-MUP- STA. 19+23.21 TO STA. 20+94.10



SHOULDER BERM GUTTER DETAIL 1
GUARDRAIL WHERE SHOULDER BERM GUTTER IS REQUIRED
USE IN CONJUNCTION WITH TYPICALS AT STATIONS:

- L- STA. 78+27.00 TO STA. 79+96.83 (RT)
- L- STA. 82+36.17 TO STA. 83+12.72 (RT)
- L- STA. 79+36.72 TO STA. 80+02.34 (LT)
- L- STA. 82+41.67 TO STA. 82+86.72 (LT)

NOTE: SBG ON THE HIGH SIDE OF A CURVE SHALL MATCH THE SLOPE OF THE SUPERELEVATED PAVEMENT.



SHOULDER BERM GUTTER DETAIL 3
GUARDRAIL WHERE SHOULDER BERM GUTTER IS REQUIRED
USE IN CONJUNCTION WITH TYPICALS AT STATIONS:

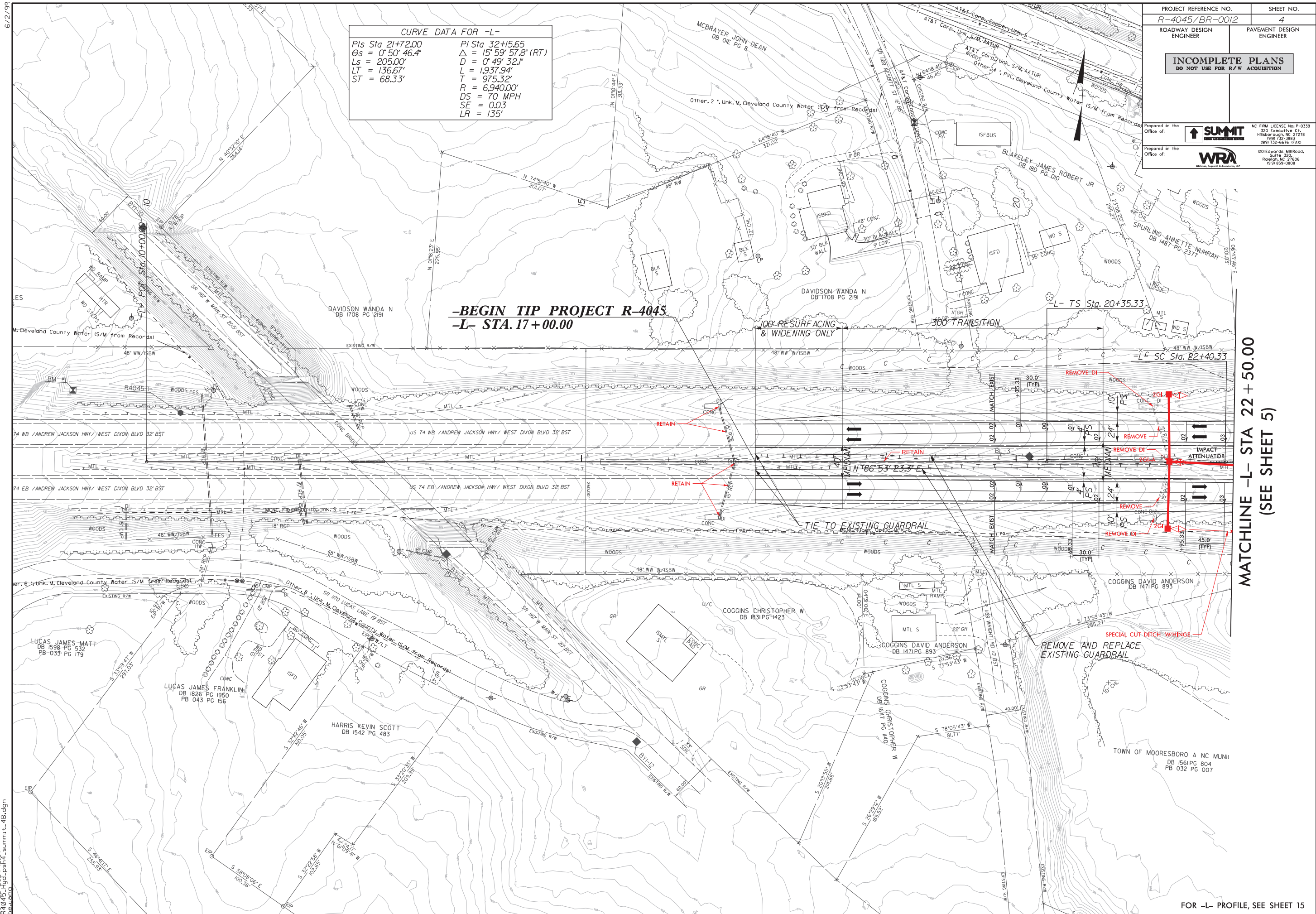
- Y3- STA. 24+75.00 TO STA. 28+75.00
- Y3A- STA. 10+11.00 TO STA. 11+25.00 (RT)

NOTE: SBG ON THE HIGH SIDE OF A CURVE SHALL MATCH THE SLOPE OF THE SUPERELEVATED PAVEMENT.

PROJECT REFERENCE NO. R-4045/BR-0012	SHEET NO. 2A-6
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Prepared in the Office of: SUMMIT	NC FIRM LICENSE Nos P-0339 320 Executive Ct. Hillsborough, NC 27278 (919) 732-3883 (919) 732-4416 (fax)
Prepared in the Office of: WRA	1201 Edwards Mill Road, Suite 320, Raleigh, NC 27606 (919) 859-0808

CURVE DATA FOR -L-	
PI Sta 21+72.00	PI Sta 32+15.65
$\Delta s = 0^{\circ} 50' 46.4''$	$\Delta = 15^{\circ} 59' 57.8''$ (RT)
$Ls = 205.00'$	$D = 0^{\circ} 49' 32.1''$
$LT = 136.67'$	$L = 1,937.94'$
$ST = 68.33'$	$T = 975.32'$
	$R = 6,940.00'$
	$DS = 70$ MPH
	$SE = 0.03$
	$LR = 135'$

-BEGIN TIP PROJECT R-4045-
-L- STA. 17+00.00



MATCHLINE -L- STA 22 + 50.00
(SEE SHEET 5)

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INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

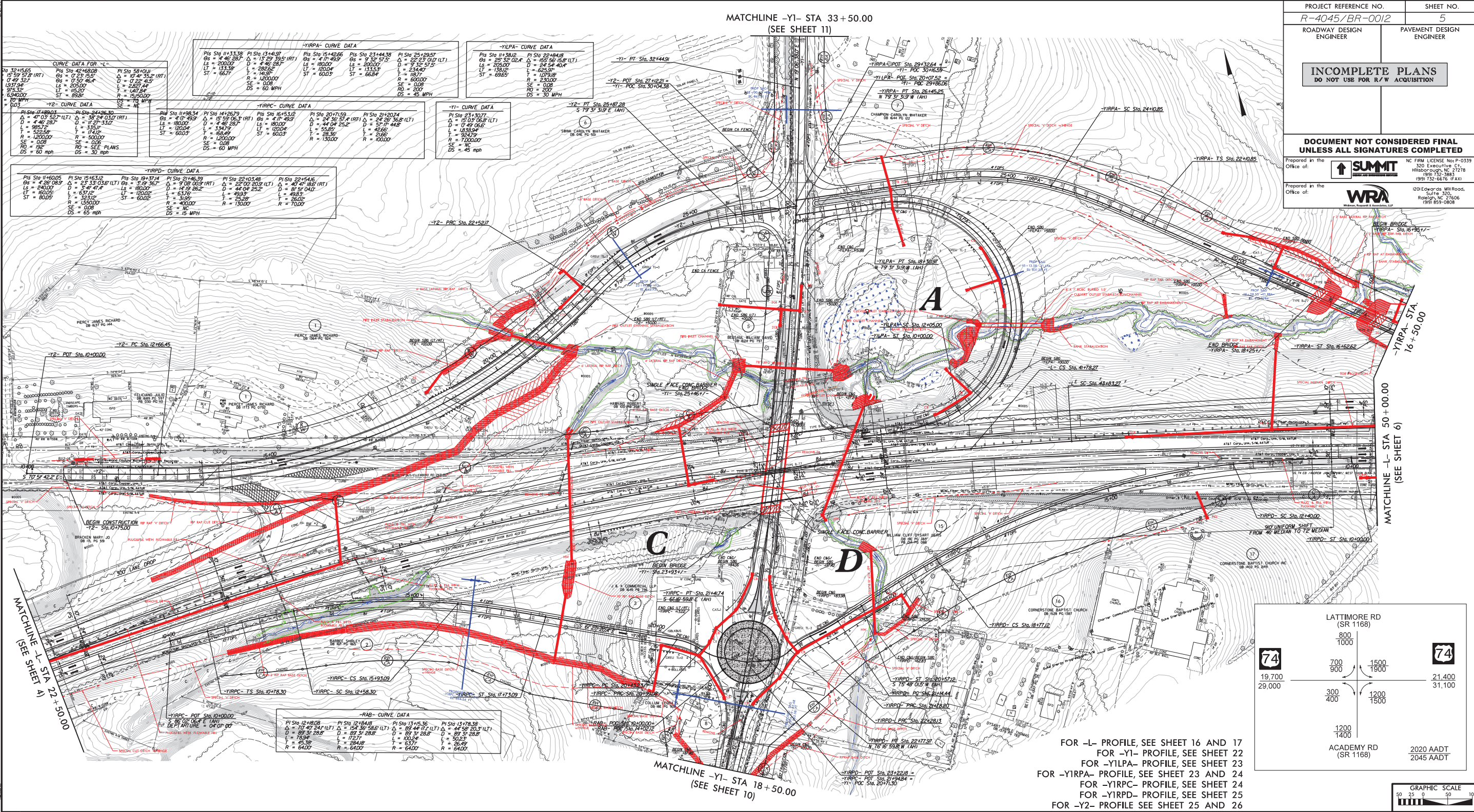
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

Prepared in the Office of: **SUMMIT** NC FIRM LICENSE No. P-0339
320 Executive Cir., Hillsborough, NC 27278
(919) 732-3885 (919) 732-6676 (FAX)

Prepared in the Office of: **WRA** 120 Edwards Mill Road, Suite 320, Raleigh, NC 27606
(919) 859-0808

MATCHLINE -Y1- STA 33+50.00
(SEE SHEET 11)

MATCHLINE -L- STA 50+00.00
(SEE SHEET 6)



-Y1RPA- CURVE DATA				-Y1RPA- CURVE DATA			
PI Sta 11+13.38 Bs = 4' 46.287' Ls = 200.00' Lt = 133.39' St = 66.71'	PI Sta 13+41.97 Bs = 17' 29.395' (RT) Ls = 180.00' Lt = 120.00' St = 60.00'	PI Sta 15+42.66 Bs = 4' 17' 49.9' Ls = 180.00' Lt = 120.00' St = 60.00'	PI Sta 21+44.38 Bs = 9' 32' 57.5' Ls = 200.00' Lt = 133.39' St = 66.71'	PI Sta 25+39.67 Bs = 22' 25' 0.0' (LT) Ls = 180.00' Lt = 120.00' St = 60.00'	PI Sta 29+34.96 Bs = 2' 34' 40.4' Ls = 200.00' Lt = 133.39' St = 66.71'	PI Sta 33+30.25 Bs = 10' 79.8' Ls = 200.00' Lt = 133.39' St = 66.71'	PI Sta 37+25.54 Bs = 2' 34' 40.4' Ls = 200.00' Lt = 133.39' St = 66.71'

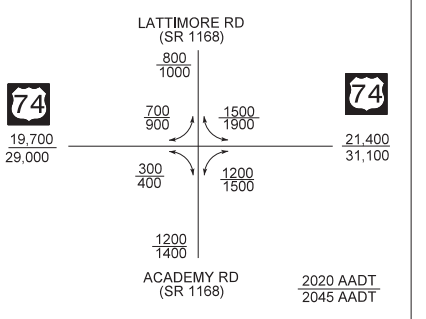
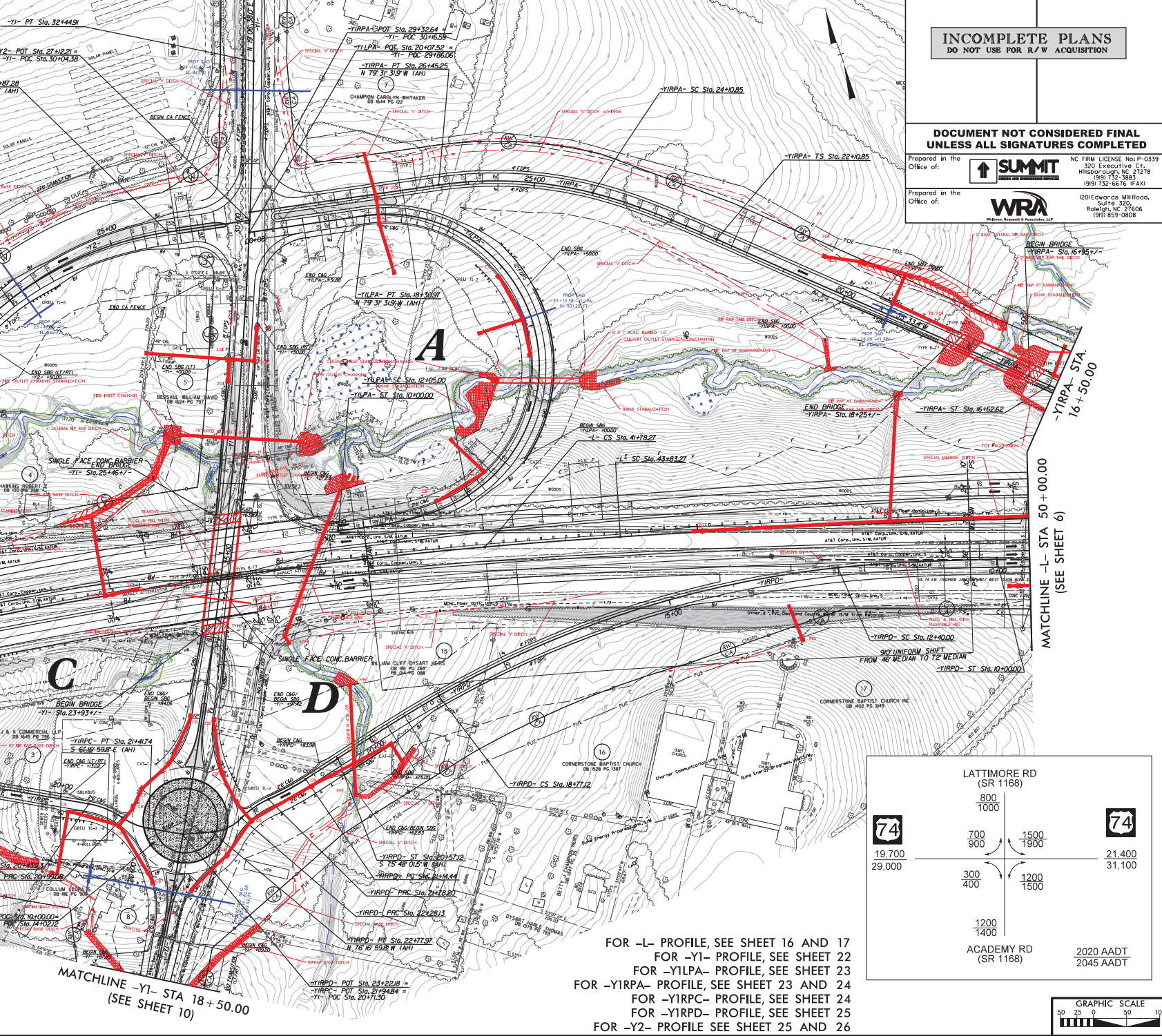
-Y1RPA- CURVE DATA				-Y1RPA- CURVE DATA			
PI Sta 11+13.38 Bs = 4' 46.287' Ls = 200.00' Lt = 133.39' St = 66.71'	PI Sta 13+41.97 Bs = 17' 29.395' (RT) Ls = 180.00' Lt = 120.00' St = 60.00'	PI Sta 15+42.66 Bs = 4' 17' 49.9' Ls = 180.00' Lt = 120.00' St = 60.00'	PI Sta 21+44.38 Bs = 9' 32' 57.5' Ls = 200.00' Lt = 133.39' St = 66.71'	PI Sta 25+39.67 Bs = 22' 25' 0.0' (LT) Ls = 180.00' Lt = 120.00' St = 60.00'	PI Sta 29+34.96 Bs = 2' 34' 40.4' Ls = 200.00' Lt = 133.39' St = 66.71'	PI Sta 33+30.25 Bs = 10' 79.8' Ls = 200.00' Lt = 133.39' St = 66.71'	PI Sta 37+25.54 Bs = 2' 34' 40.4' Ls = 200.00' Lt = 133.39' St = 66.71'

-Y1RPA- CURVE DATA				-Y1RPA- CURVE DATA			
PI Sta 11+13.38 Bs = 4' 46.287' Ls = 200.00' Lt = 133.39' St = 66.71'	PI Sta 13+41.97 Bs = 17' 29.395' (RT) Ls = 180.00' Lt = 120.00' St = 60.00'	PI Sta 15+42.66 Bs = 4' 17' 49.9' Ls = 180.00' Lt = 120.00' St = 60.00'	PI Sta 21+44.38 Bs = 9' 32' 57.5' Ls = 200.00' Lt = 133.39' St = 66.71'	PI Sta 25+39.67 Bs = 22' 25' 0.0' (LT) Ls = 180.00' Lt = 120.00' St = 60.00'	PI Sta 29+34.96 Bs = 2' 34' 40.4' Ls = 200.00' Lt = 133.39' St = 66.71'	PI Sta 33+30.25 Bs = 10' 79.8' Ls = 200.00' Lt = 133.39' St = 66.71'	PI Sta 37+25.54 Bs = 2' 34' 40.4' Ls = 200.00' Lt = 133.39' St = 66.71'

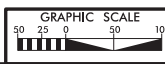
-Y1RPA- CURVE DATA				-Y1RPA- CURVE DATA			
PI Sta 11+13.38 Bs = 4' 46.287' Ls = 200.00' Lt = 133.39' St = 66.71'	PI Sta 13+41.97 Bs = 17' 29.395' (RT) Ls = 180.00' Lt = 120.00' St = 60.00'	PI Sta 15+42.66 Bs = 4' 17' 49.9' Ls = 180.00' Lt = 120.00' St = 60.00'	PI Sta 21+44.38 Bs = 9' 32' 57.5' Ls = 200.00' Lt = 133.39' St = 66.71'	PI Sta 25+39.67 Bs = 22' 25' 0.0' (LT) Ls = 180.00' Lt = 120.00' St = 60.00'	PI Sta 29+34.96 Bs = 2' 34' 40.4' Ls = 200.00' Lt = 133.39' St = 66.71'	PI Sta 33+30.25 Bs = 10' 79.8' Ls = 200.00' Lt = 133.39' St = 66.71'	PI Sta 37+25.54 Bs = 2' 34' 40.4' Ls = 200.00' Lt = 133.39' St = 66.71'

-Y1RPA- CURVE DATA				-Y1RPA- CURVE DATA			
PI Sta 11+13.38 Bs = 4' 46.287' Ls = 200.00' Lt = 133.39' St = 66.71'	PI Sta 13+41.97 Bs = 17' 29.395' (RT) Ls = 180.00' Lt = 120.00' St = 60.00'	PI Sta 15+42.66 Bs = 4' 17' 49.9' Ls = 180.00' Lt = 120.00' St = 60.00'	PI Sta 21+44.38 Bs = 9' 32' 57.5' Ls = 200.00' Lt = 133.39' St = 66.71'	PI Sta 25+39.67 Bs = 22' 25' 0.0' (LT) Ls = 180.00' Lt = 120.00' St = 60.00'	PI Sta 29+34.96 Bs = 2' 34' 40.4' Ls = 200.00' Lt = 133.39' St = 66.71'	PI Sta 33+30.25 Bs = 10' 79.8' Ls = 200.00' Lt = 133.39' St = 66.71'	PI Sta 37+25.54 Bs = 2' 34' 40.4' Ls = 200.00' Lt = 133.39' St = 66.71'

-Y1RPA- CURVE DATA				-Y1RPA- CURVE DATA			
PI Sta 11+13.38 Bs = 4' 46.287' Ls = 200.00' Lt = 133.39' St = 66.71'	PI Sta 13+41.97 Bs = 17' 29.395' (RT) Ls = 180.00' Lt = 120.00' St = 60.00'	PI Sta 15+42.66 Bs = 4' 17' 49.9' Ls = 180.00' Lt = 120.00' St = 60.00'	PI Sta 21+44.38 Bs = 9' 32' 57.5' Ls = 200.00' Lt = 133.39' St = 66.71'	PI Sta 25+39.67 Bs = 22' 25' 0.0' (LT) Ls = 180.00' Lt = 120.00' St = 60.00'	PI Sta 29+34.96 Bs = 2' 34' 40.4' Ls = 200.00' Lt = 133.39' St = 66.71'	PI Sta 33+30.25 Bs = 10' 79.8' Ls = 200.00' Lt = 133.39' St = 66.71'	PI Sta 37+25.54 Bs = 2' 34' 40.4' Ls = 200.00' Lt = 133.39' St = 66.71'



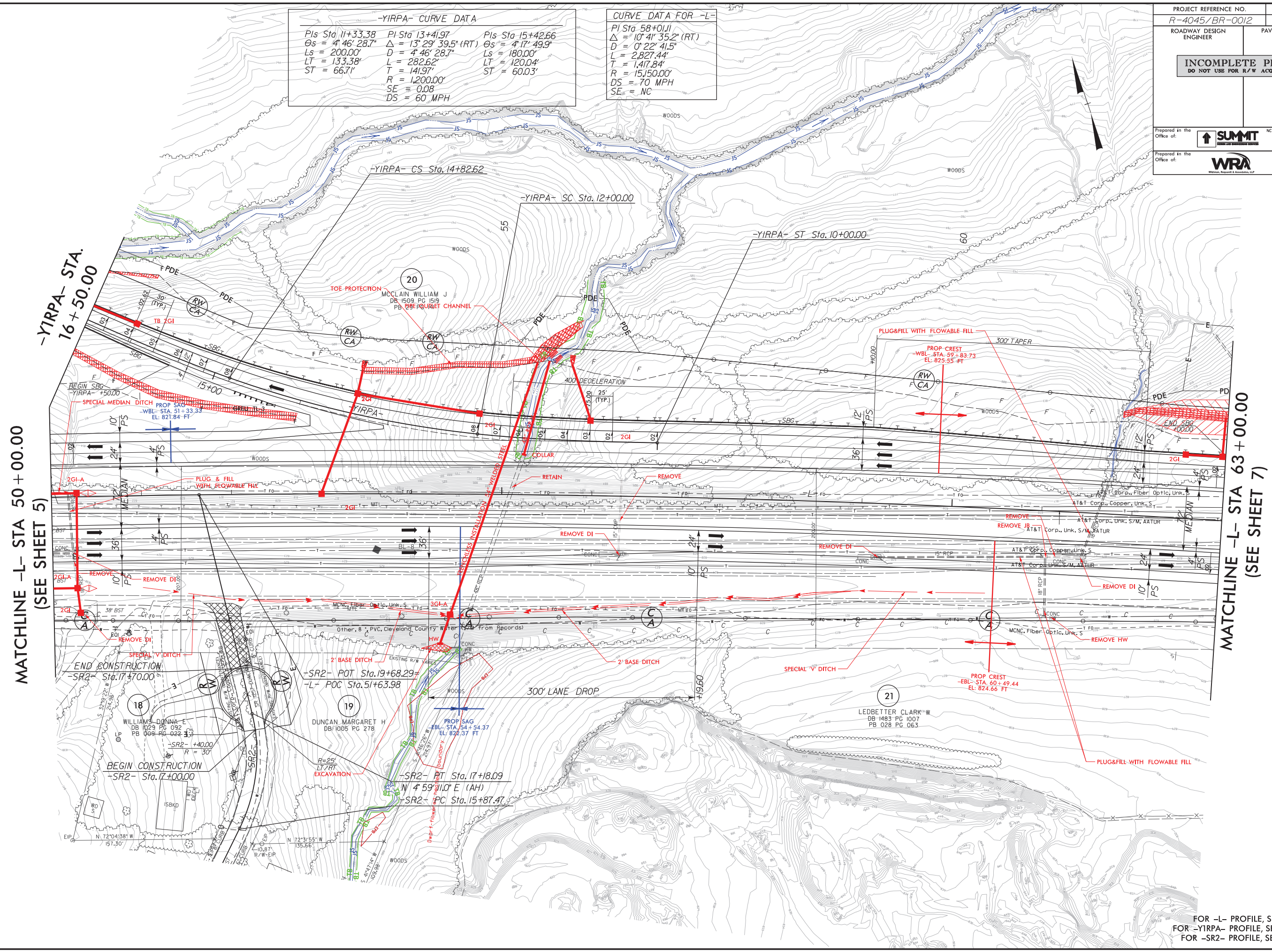
FOR -L- PROFILE, SEE SHEET 16 AND 17
FOR -Y1- PROFILE, SEE SHEET 22
FOR -Y1LPA- PROFILE, SEE SHEET 23
FOR -Y1RPA- PROFILE, SEE SHEET 23 AND 24
FOR -Y1RPA- PROFILE, SEE SHEET 23 AND 24
FOR -Y1RPA- PROFILE, SEE SHEET 24
FOR -Y1RPA- PROFILE, SEE SHEET 25
FOR -Y2- PROFILE SEE SHEET 25 AND 26



6/2/99

PROJECT REFERENCE NO. R-4045/BR-0012	SHEET NO. 6
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
Prepared in the Office of: SUMMIT	NC FIRM LICENSE No. P-0339 320 Executive Ct. Hillsborough, NC 27278 (919) 332-3883 (919) 732-6676 (FAX)
Prepared in the Office of: WRA	201 Edwards Mill Road, Suite 500 Raleigh, NC 27606 (919) 859-0808

-YIRPA- CURVE DATA			CURVE DATA FOR -L-		
PIs Sta. 11+33.38	PI Sta. 13+41.97	PIs Sta. 15+42.66	PI Sta. 58+01.11		
$\theta_s = 4^\circ 46' 28.7''$	$\Delta = 13^\circ 29' 39.5''$ (RT)	$\theta_s = 4^\circ 17' 49.9''$	$\Delta = 10^\circ 41' 35.2''$ (RT)		
$L_s = 200.00'$	$D = 4^\circ 46' 28.7''$	$L_s = 180.00'$	$D = 0^\circ 22' 41.5''$		
$LT = 133.38'$	$L = 282.62'$	$LT = 120.04'$	$L = 2,827.44'$		
$ST = 66.71'$	$T = 141.97'$	$ST = 60.03'$	$T = 1,417.84'$		
	$R = 1,200.00'$		$R = 15,150.00'$		
	$SE = 0.08$		$DS = 70$ MPH		
	$DS = 60$ MPH		$SE = NC$		



MATCHLINE -L- STA 50+00.00
(SEE SHEET 5)

MATCHLINE -L- STA 63+00.00
(SEE SHEET 7)

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FOR -L- PROFILE, SEE SHEET 18
FOR -YIRPA- PROFILE, SEE SHEET 23
FOR -SR2- PROFILE, SEE SHEET 27

6/2/2019

PROJECT REFERENCE NO. R-4045/BR-0012	SHEET NO. 7
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
Prepared in the Office of: SUMMIT	NC FIRM LICENSE No. P-0339 320 Executive Ct. Hillsborough, NC 27278 (919) 732-3883 (919) 732-6676 (FAX)
Prepared in the Office of: WRA	201 Edwards Mill Road, Suite 500 Raleigh, NC 27606 (919) 859-0808

CURVE DATA FOR -L-

PI Sta 58+01.11	$\Delta = 10' 41' 35.2''$ (RT)
D = 0' 22' 41.5"	L = 2,827.44'
T = 1,417.84'	R = 15,150.00'
DS = 70 MPH	SE = NC

CURVE DATA FOR -MUP-

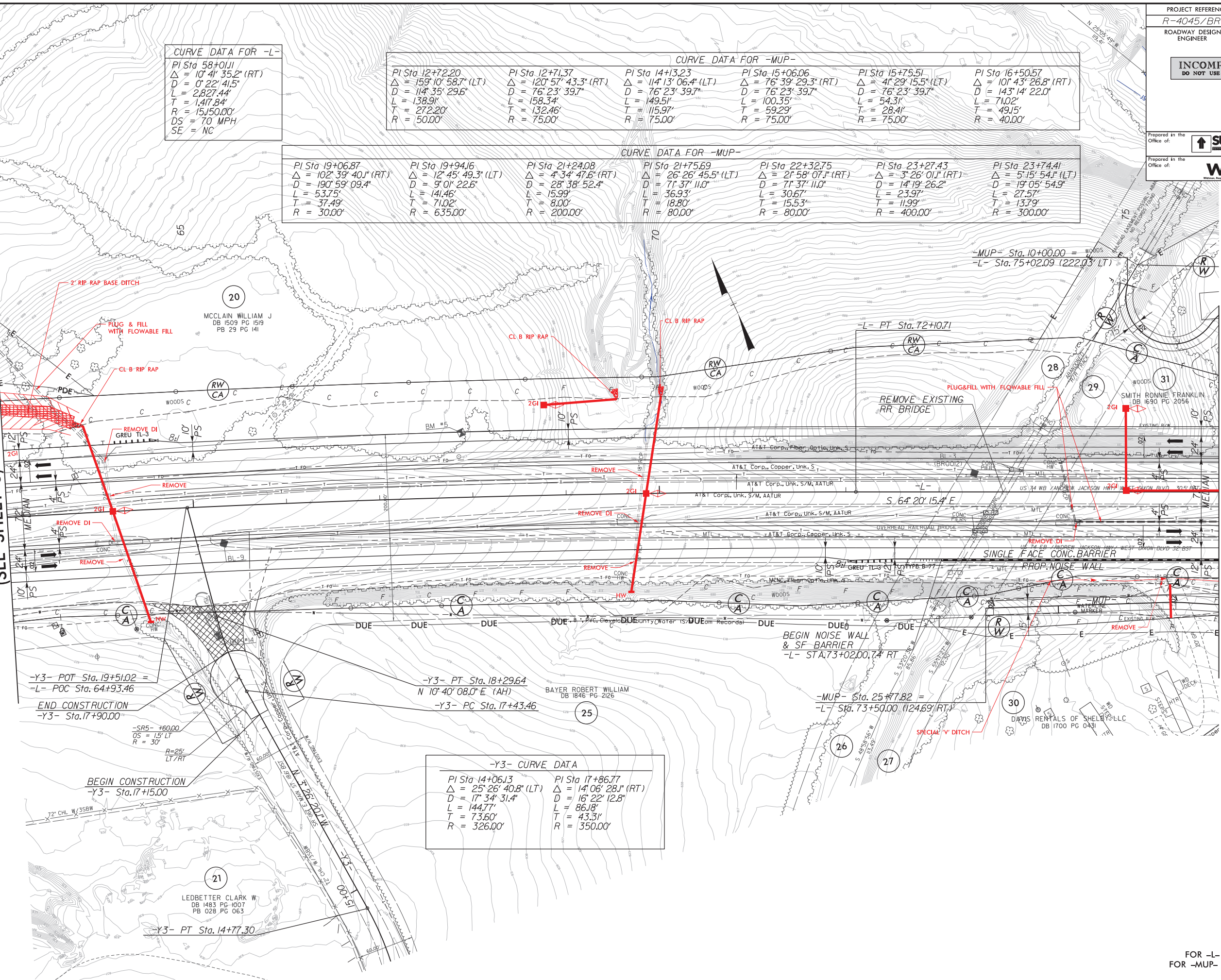
PI Sta 12+72.20	$\Delta = 159' 10' 58.7''$ (LT)	PI Sta 12+71.37	$\Delta = 120' 57' 43.3''$ (RT)	PI Sta 14+13.23	$\Delta = 114' 13' 06.4''$ (LT)	PI Sta 15+06.06	$\Delta = 76' 39' 29.3''$ (RT)	PI Sta 15+75.51	$\Delta = 41' 29' 15.5''$ (LT)	PI Sta 16+50.57	$\Delta = 101' 43' 26.8''$ (RT)
D = 114' 35' 29.6"	L = 138.91'	D = 76' 23' 39.7"	L = 158.34'	D = 76' 23' 39.7"	L = 149.51'	D = 76' 23' 39.7"	L = 100.35'	D = 76' 23' 39.7"	L = 54.31'	D = 143' 14' 22.0"	L = 710.2'
T = 272.20'	R = 50.00'	T = 132.46'	R = 75.00'	T = 115.97'	R = 75.00'	T = 59.29'	R = 75.00'	T = 28.41'	R = 75.00'	T = 49.15'	R = 40.00'

CURVE DATA FOR -MUP-

PI Sta 19+06.87	$\Delta = 102' 39' 40.1''$ (RT)	PI Sta 19+94.6	$\Delta = 12' 45' 49.3''$ (LT)	PI Sta 21+24.08	$\Delta = 4' 34' 47.6''$ (RT)	PI Sta 21+75.69	$\Delta = 26' 26' 45.5''$ (LT)	PI Sta 22+32.75	$\Delta = 21' 58' 07.1''$ (RT)	PI Sta 23+27.43	$\Delta = 3' 26' 01.1''$ (RT)	PI Sta 23+74.41	$\Delta = 5' 15' 54.1''$ (LT)
D = 190' 59' 09.4"	L = 53.75'	D = 9' 01' 22.6"	L = 141.46'	D = 28' 38' 52.4"	L = 15.99'	D = 71' 37' 11.0"	L = 36.93'	D = 71' 37' 11.0"	L = 30.67'	D = 14' 19' 26.2"	L = 23.97'	D = 19' 05' 54.9"	L = 27.57'
T = 37.49'	R = 30.00'	T = 71.02'	R = 635.00'	T = 8.00'	R = 200.00'	T = 18.80'	R = 80.00'	T = 15.53'	R = 80.00'	T = 11.99'	R = 400.00'	T = 13.79'	R = 300.00'

MATCHLINE -L- STA 63 + 00.00
(SEE SHEET 6)

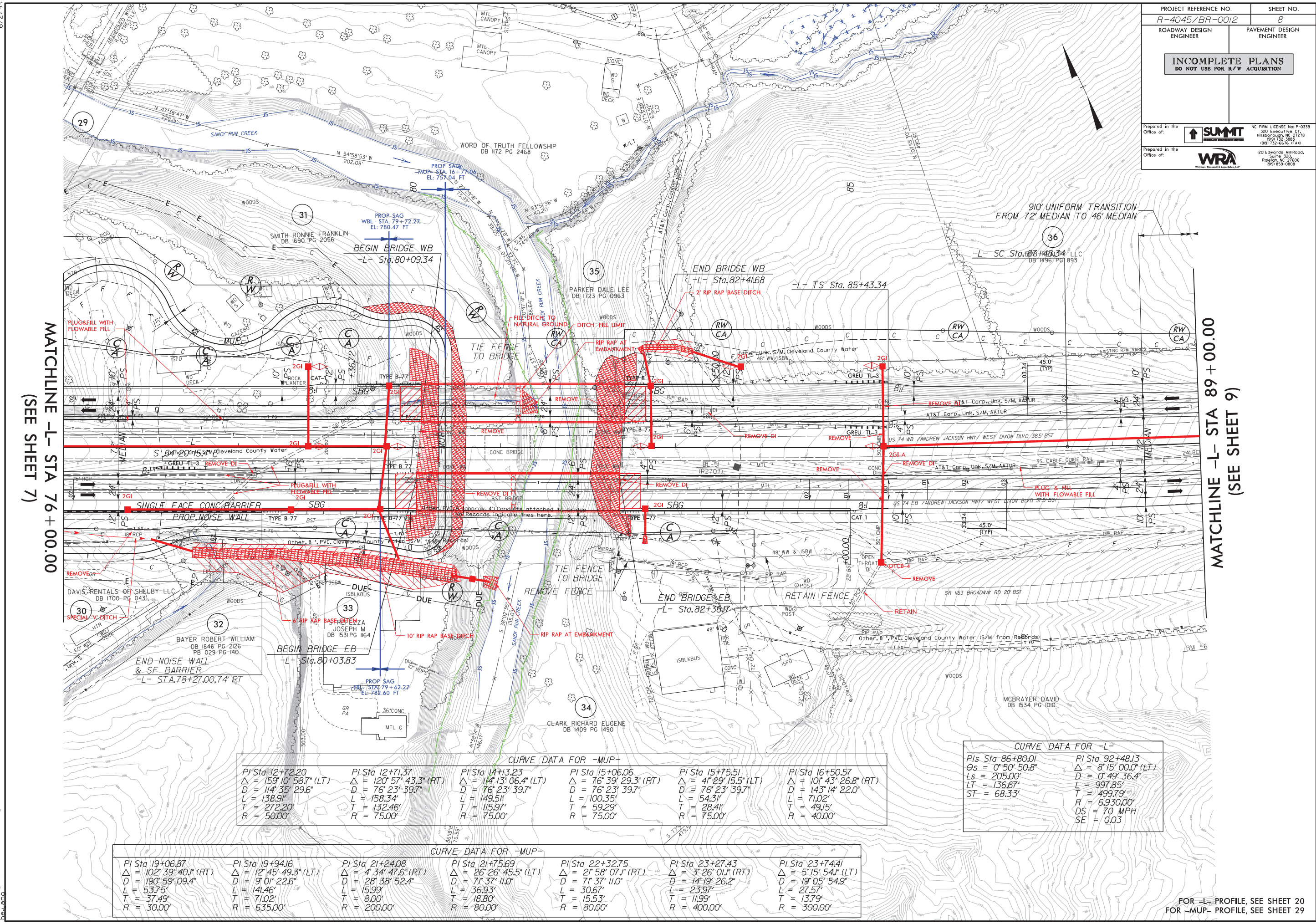
MATCHLINE -L- STA 76 + 00.00
(SEE SHEET 8)



-Y3- CURVE DATA

PI Sta 14+06.13	$\Delta = 25' 26' 40.8''$ (LT)	PI Sta 17+86.77	$\Delta = 14' 06' 28.1''$ (RT)
D = 17' 34' 31.4"	L = 144.77'	D = 16' 22' 12.8"	L = 86.18'
T = 73.60'	R = 326.00'	T = 43.31'	R = 350.00'

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MATCHLINE -L- STA 76 + 00.00
(SEE SHEET 7)

MATCHLINE -L- STA 89 + 00.00
(SEE SHEET 9)

CURVE DATA FOR -MUP-

PI Sta 12+72.20 Δ = 159° 10' 58.7" (LT) D = 114' 35" 29.6" L = 138.9' T = 272.20' R = 50.00'	PI Sta 12+71.37 Δ = 120° 57' 43.3" (RT) D = 76' 23" 39.7" L = 158.34' T = 132.46' R = 75.00'	PI Sta 14+13.23 Δ = 114° 13' 06.4" (LT) D = 76' 23" 39.7" L = 149.51' T = 115.97' R = 75.00'	PI Sta 15+06.06 Δ = 76° 39' 29.3" (RT) D = 76' 23" 39.7" L = 100.35' T = 59.29' R = 75.00'	PI Sta 15+75.51 Δ = 41° 29' 15.5" (LT) D = 76' 23" 39.7" L = 54.31' T = 28.41' R = 75.00'	PI Sta 16+50.57 Δ = 101° 43' 26.8" (RT) D = 143' 14" 22.0" L = 71.02' T = 49.15' R = 40.00'
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CURVE DATA FOR -L-

PIs Sta 86+80.01 Os = 0° 50' 50.8" Ls = 205.00' LT = 136.67' ST = 68.33'	PI Sta 92+48.13 Δ = 8° 15' 00.0" (LT) D = 0° 49' 36.4" L = 997.85' T = 499.79' R = 6,930.00' DS = 70 MPH SE = 0.03
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CURVE DATA FOR -MUP-

PI Sta 19+06.87 Δ = 102° 39' 40.1" (RT) D = 190' 59" 09.4" L = 53.75' T = 37.49' R = 30.00'	PI Sta 19+94.16 Δ = 12° 45' 49.3" (LT) D = 9° 01' 22.6" L = 141.46' T = 71.02' R = 635.00'	PI Sta 21+24.08 Δ = 4° 34' 47.6" (RT) D = 28' 38" 52.4" L = 15.99' T = 8.00' R = 200.00'	PI Sta 21+75.69 Δ = 26° 26' 45.5" (LT) D = 71' 37" 11.0" L = 36.93' T = 18.80' R = 80.00'	PI Sta 22+32.75 Δ = 21° 58' 07.1" (RT) D = 71' 37" 11.0" L = 30.67' T = 15.53' R = 80.00'	PI Sta 23+27.43 Δ = 3° 26' 01.1" (RT) D = 14' 19" 26.2" L = 23.97' T = 11.99' R = 400.00'	PI Sta 23+74.41 Δ = 5° 15' 54.1" (LT) D = 19° 05' 54.9" L = 27.57' T = 13.79' R = 300.00'
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FOR -L- PROFILE, SEE SHEET 20
FOR -MUP- PROFILE, SEE SHEET 29

6/2/2019

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

Prepared in the Office of:



NC FIRM LICENSE No. P-0339
320 Executive Ct.
Hillsborough, NC 27278
(919) 732-3883
(919) 732-6676 (FAX)

Prepared in the Office of:



1201 Edwards Mill Road,
Suite 500
Raleigh, NC 27606
(919) 859-0808

CURVE DATA FOR -L-
 PI Sta. 92+48.13
 $\Delta = 8^{\circ}15'00.0"$ (LT)
 $D = 0^{\circ}49'36.4"$
 $L = 997.85'$
 $T = 499.79'$
 $R = 6,930.00'$
 $DS = 70$ MPH
 $SE = 0.03$

MATCHLINE -L- STA 89 + 00.00
(SEE SHEET 8)



-END TIP PROJECT R-4045
-L- STA. 97 + 46.19

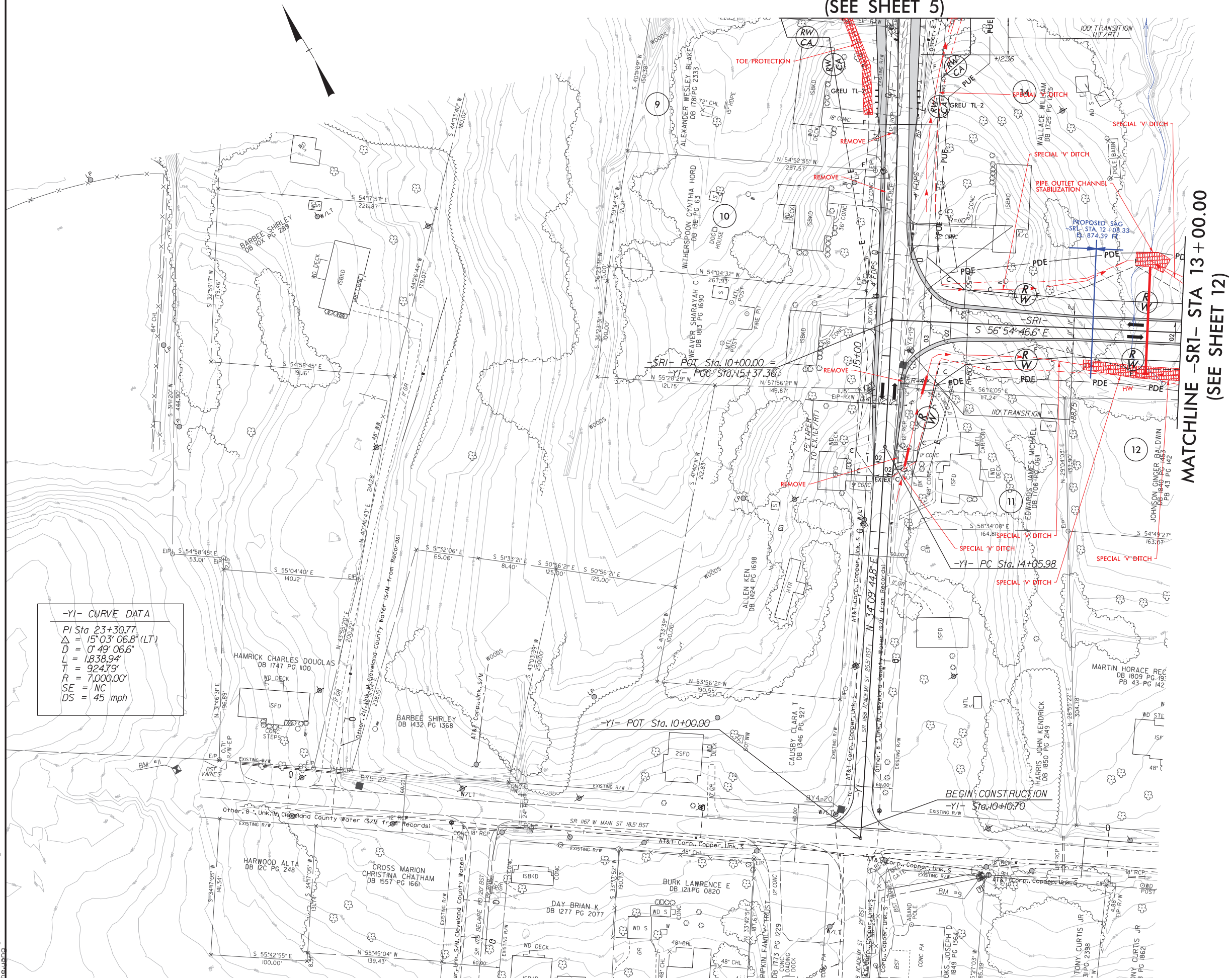
-L- PCC Sta. 97+46.19

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MATCHLINE -Y1- STA 18+50.00 (SEE SHEET 5)

PROJECT REFERENCE NO. R-4045/BR-0012	SHEET NO. 10
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
Prepared in the Office of: SUMMIT	NC FIRM LICENSE No. P-0339 320 Executive Ct. Hillsborough, NC 27278 (919) 332-3888 (919) 732-6676 (FAX)
Prepared in the Office of: WRA	1201 Edwards Mill Road, Suite 500 Raleigh, NC 27606 (919) 859-0808



-Y1- CURVE DATA
 PI Sta 23+30.77
 $\Delta = 15^{\circ} 03' 06.8" (LT)$
 $D = 0' 49' 06.6"$
 $L = 1,838.94'$
 $T = 924.79'$
 $R = 7,000.00'$
 $SE = NC$
 $DS = 45 \text{ mph}$

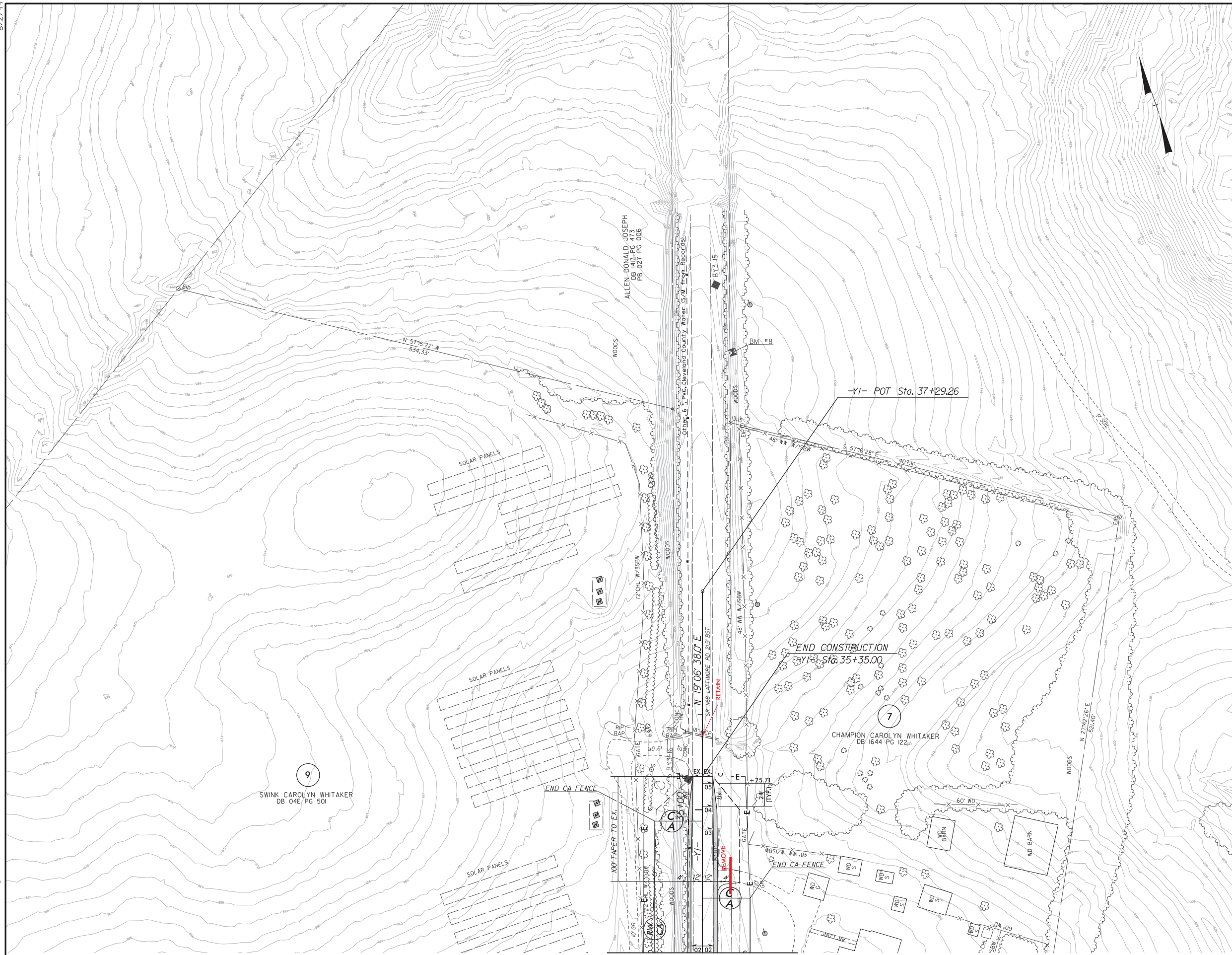
**MATCHLINE -SRI- STA 13+00.00
(SEE SHEET 12)**

FOR -Y1- PROFILE, SEE SHEET 22
 FOR -SRI- PROFILE, SEE SHEET 26

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6/2/99

PROJECT REFERENCE NO. <i>R-4045/BR-0012</i>	SHEET NO. <i>11</i>
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
Prepared in the Office of: SUMIT	NC FIRM LICENSE No. P-0339 320 Executive Ct. Hillsborough, NC 27278 (919) 732-3888 (919) 732-6676 (FAX)
Prepared in the Office of: WRA	201 Edwards Mill Road, Suite 500 Raleigh, NC 27606 (919) 859-0808



MATCHLINE -Y1- STA 33+50.00
(SEE SHEET 5)

FOR -Y1- PROFILE, SEE SHEET 22

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 heurano

PROJECT REFERENCE NO. R-4045/BR-0012	SHEET NO. 12
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
Prepared in the Office of: SUMMIT	NC FIRM LICENSE No. P-0339 320 Executive Ct. Hillsborough, NC 27278 (919) 732-3889 (919) 732-6676 (FAX)
Prepared in the Office of: WRA	201 Edwards Mill Road, Suite 302 Raleigh, NC 27606 (919) 859-0808

MATCHLINE -SRI- STA 13+00.00
(SEE SHEET 10)

MATCHLINE -SRI- STA 22+50.00
(SEE SHEET 13)

-DRI- CURVE DATA

PI Sta 10+54.28
$\Delta = 27^{\circ} 48' 59.7''$ (RT)
D = 45' 50" 11.8"
L = 60.69'
T = 30.95'
R = 125.00'

-SRI- CURVE DATA

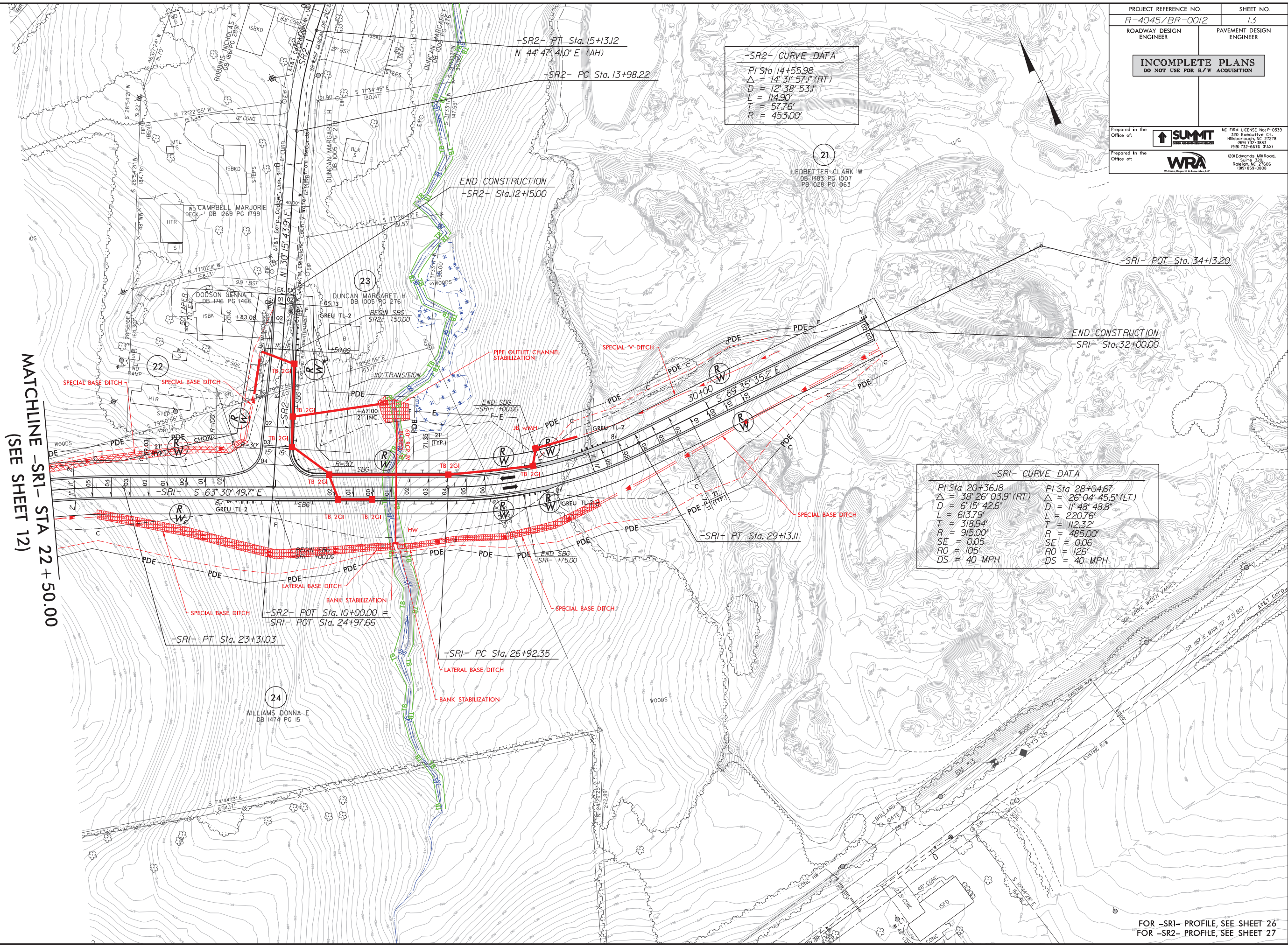
PI Sta 15+37.09	PI Sta 20+36.18
$\Delta = 45^{\circ} 02' 06.9''$ (LT)	$\Delta = 38^{\circ} 26' 03.9''$ (RT)
D = 1' 48' 48.8"	D = 6' 15' 42.6"
L = 381.22'	L = 613.79'
T = 201.07'	T = 318.94'
R = 485.00'	R = 915.00'
SE = 0.06	SE = 0.05
RO = 126'	RO = 105'
DS = 40 MPH	DS = 40 MPH

23.FEB.2004 10:57
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6/2/99

PROJECT REFERENCE NO. R-4045/BR-0012	SHEET NO. 13
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
Prepared in the Office of: SUMMIT	NC FIRM LICENSE No. P-0339 320 Executive Ct. Hillsborough, NC 27278 (919) 732-3888 (919) 732-6676 (FAX)
Prepared in the Office of: WRA	201 Edwards Mill Road, Suite 500 Raleigh, NC 27606 (919) 859-0808

MATCHLINE -SR1- STA 22+50.00
(SEE SHEET 12)



-SR2- CURVE DATA

PI Sta 14+55.98
 $\Delta = 14^{\circ} 31' 57.1''$ (RT)
 $D = 12^{\circ} 38' 53.1''$
 $L = 114.90'$
 $T = 57.76'$
 $R = 453.00'$

-SR1- CURVE DATA

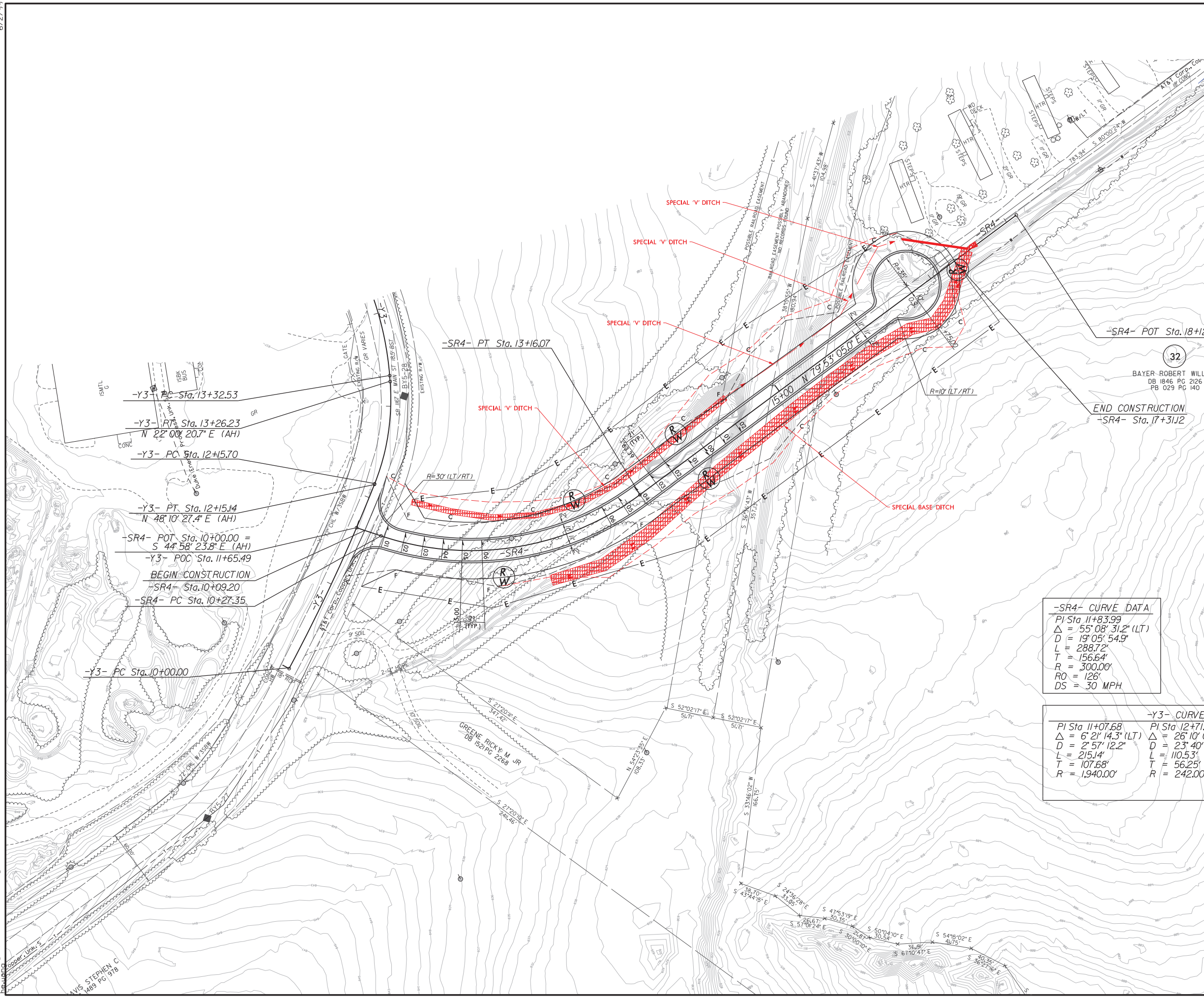
PI Sta 20+36.18 $\Delta = 38^{\circ} 26' 03.9''$ (RT) $D = 6^{\circ} 15' 42.6''$ $L = 613.79'$ $T = 318.94'$ $R = 915.00'$ $SE = 0.05$ $RO = 105'$ $DS = 40$ MPH	PI Sta 28+04.67 $\Delta = 26^{\circ} 04' 45.5''$ (LT) $D = 11^{\circ} 48' 48.8''$ $L = 220.76'$ $T = 112.32'$ $R = 485.00'$ $SE = 0.06$ $RO = 126'$ $DS = 40$ MPH
--	---

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bawana

FOR -SR1- PROFILE, SEE SHEET 26
FOR -SR2- PROFILE, SEE SHEET 27

6/2/99

PROJECT REFERENCE NO. <i>R-4045/BR-0012</i>	SHEET NO. 14
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
Prepared in the Office of: SUMMIT	NC FIRM LICENSE No. P-0339 320 Executive Ct. Hillsborough, NC 27278 (919) 732-3888 (919) 732-6676 (FAX)
Prepared in the Office of: WRA	201 Edwards Mill Road, Suite 300 Raleigh, NC 27606 (919) 859-0808



-Y3- PC Sta. 13+32.53

-Y3- RT Sta. 13+26.23

N 22°08' 20.7" E (AH)

-Y3- PC Sta. 12+15.70

-Y3- PT Sta. 12+15.14

N 48°10' 27.4" E (AH)

-SR4- POT Sta. 10+00.00 =

S 44°58' 23.8" E (AH)

-Y3- POC Sta. 11+65.49

BEGIN CONSTRUCTION

-SR4- Sta. 10+09.20

-SR4- PC Sta. 10+27.35

-Y3- PC Sta. 10+00.00

-SR4- PT Sta. 13+16.07

-SR4- POT Sta. 18+12.85

32

BAYER-ROBERT WILLIAM
DB 1846 PG 2126
PB 029 PG 140

END CONSTRUCTION
-SR4- Sta. 17+31.12

-SR4- CURVE DATA
 PI Sta 11+83.99
 $\Delta = 55^{\circ}08' 31.2"$ (LT)
 D = 19'05' 54.9"
 L = 288.72'
 T = 156.64'
 R = 300.00'
 RO = 126'
 DS = 30 MPH

-Y3- CURVE DATA

PI Sta 11+07.68 $\Delta = 6^{\circ}21' 14.3"$ (LT) D = 2'57' 12.2" L = 215.14' T = 107.68' R = 1940.00'	PI Sta 12+71.94 $\Delta = 26^{\circ}10' 06.8"$ (LT) D = 23' 40' 33.4" L = 110.53' T = 56.25' R = 242.00'	PI Sta 14+06.13 $\Delta = 25^{\circ}26' 40.8"$ (LT) D = 17' 34' 31.4" L = 144.77' T = 73.60' R = 326.00'
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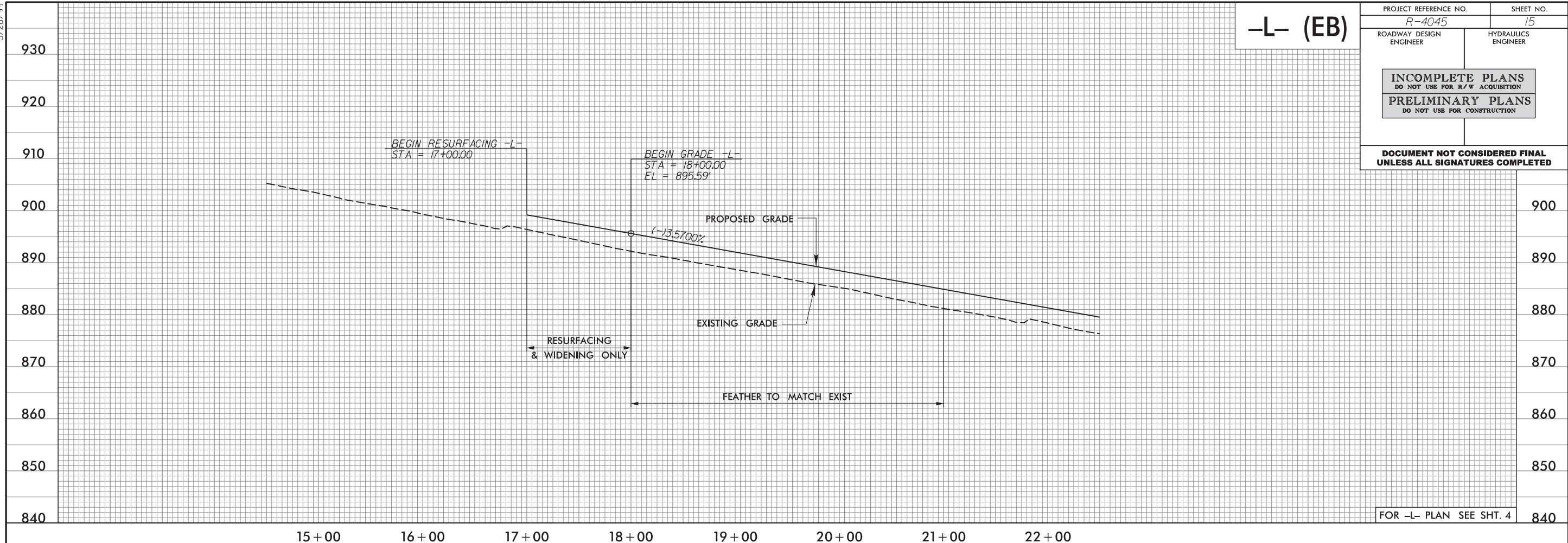
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WVF STEPHEN C
1489 PG 978

FOR -SR4- PROFILE, SEE SHEET 28

5/28/99

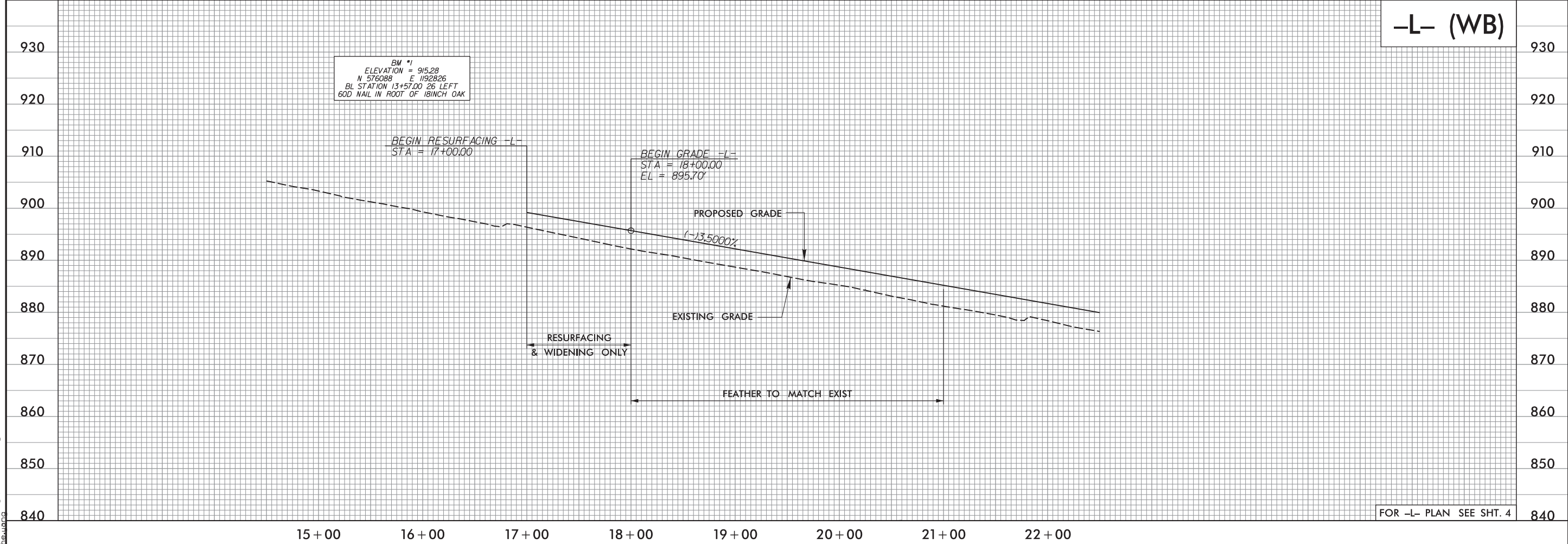
-L- (EB)

PROJECT REFERENCE NO. R-4045	SHEET NO. 15
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



-L- (WB)

BM *1
 ELEVATION = 915.28
 N 576088 E 1192826
 BL STATION 13+57.00 26 LEFT
 60D NAIL IN ROOT OF 18INCH OAK



R23.FEB.2024 10:57 AM WRA.dgn

5/28/99

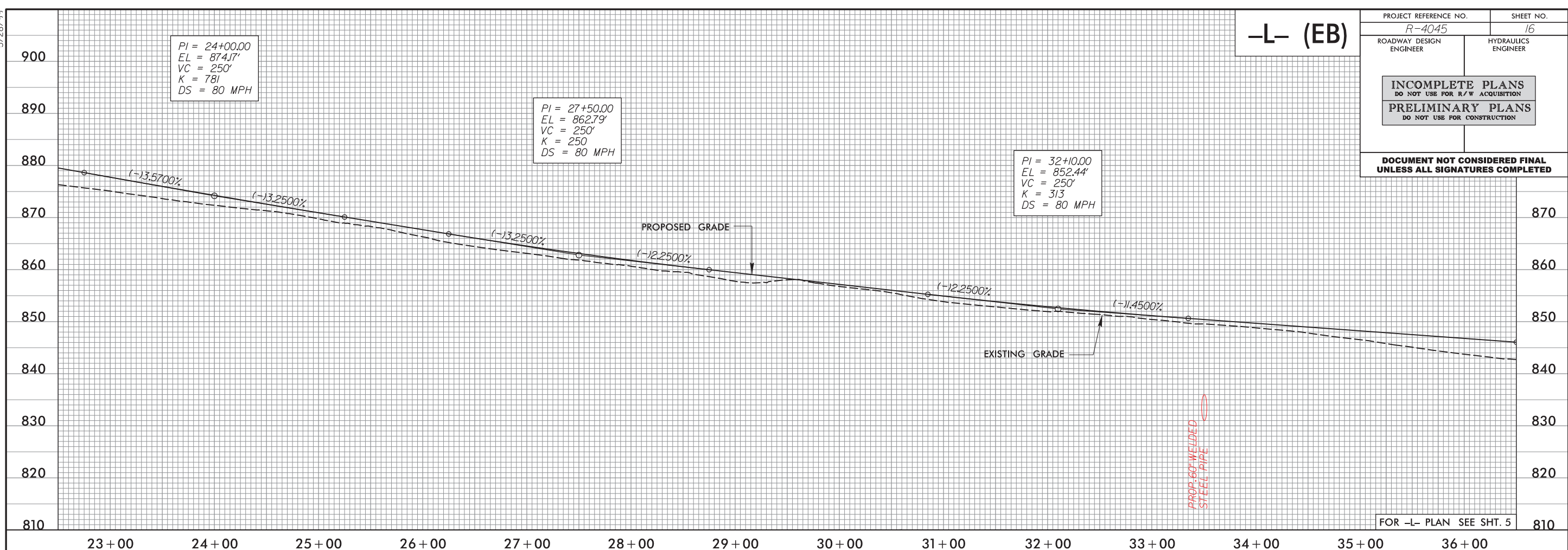
PI = 24+00.00
EL = 874.17'
VC = 250'
K = 781
DS = 80 MPH

PI = 27+50.00
EL = 862.79'
VC = 250'
K = 250
DS = 80 MPH

PI = 32+10.00
EL = 852.44'
VC = 250'
K = 313
DS = 80 MPH

-L- (EB)

PROJECT REFERENCE NO. R-4045	SHEET NO. 16
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

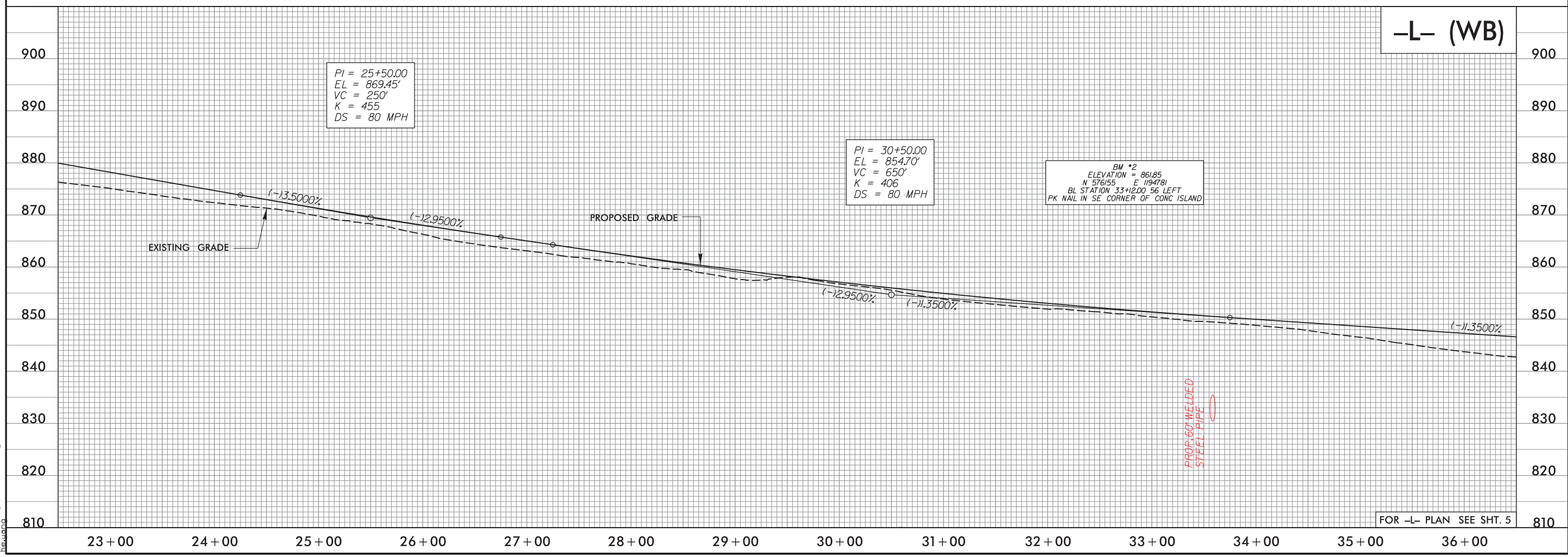


-L- (WB)

PI = 25+50.00
EL = 869.45'
VC = 250'
K = 455
DS = 80 MPH

PI = 30+50.00
EL = 854.70'
VC = 650'
K = 406
DS = 80 MPH

BM *2
ELEVATION = 861.85
N 576155 E 1194781
BL STATION 33+12.00 56' LEFT
PK NAIL IN SE CORNER OF CONC ISLAND

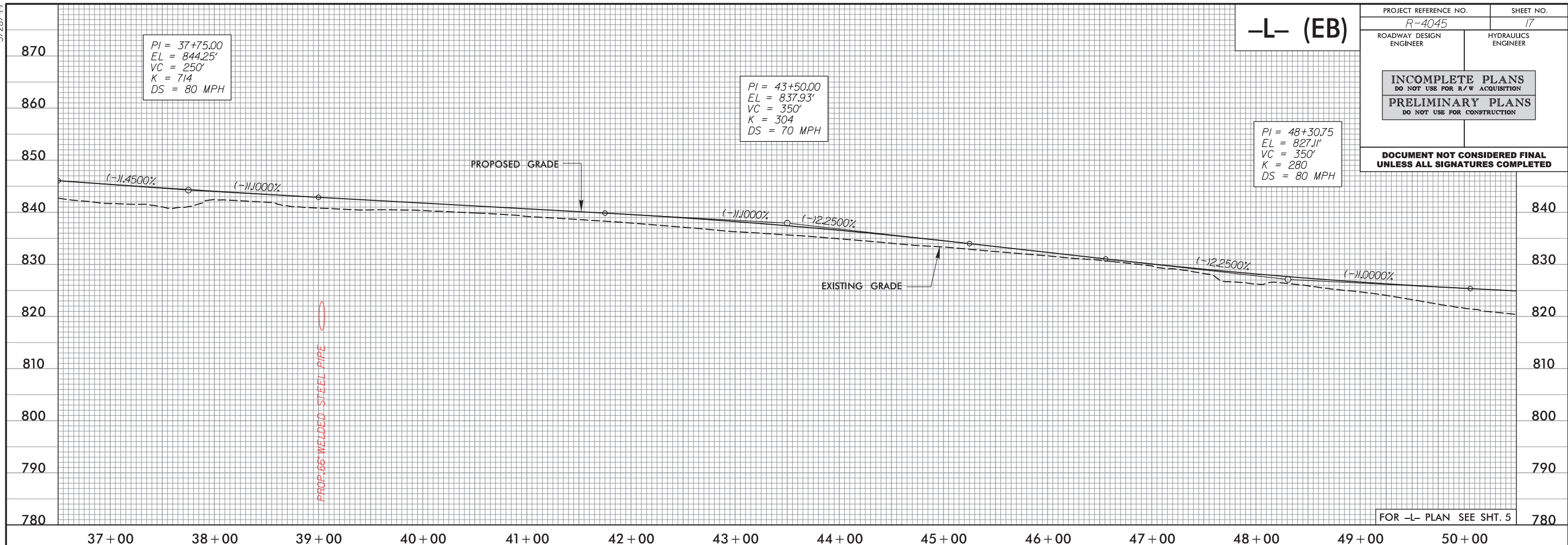


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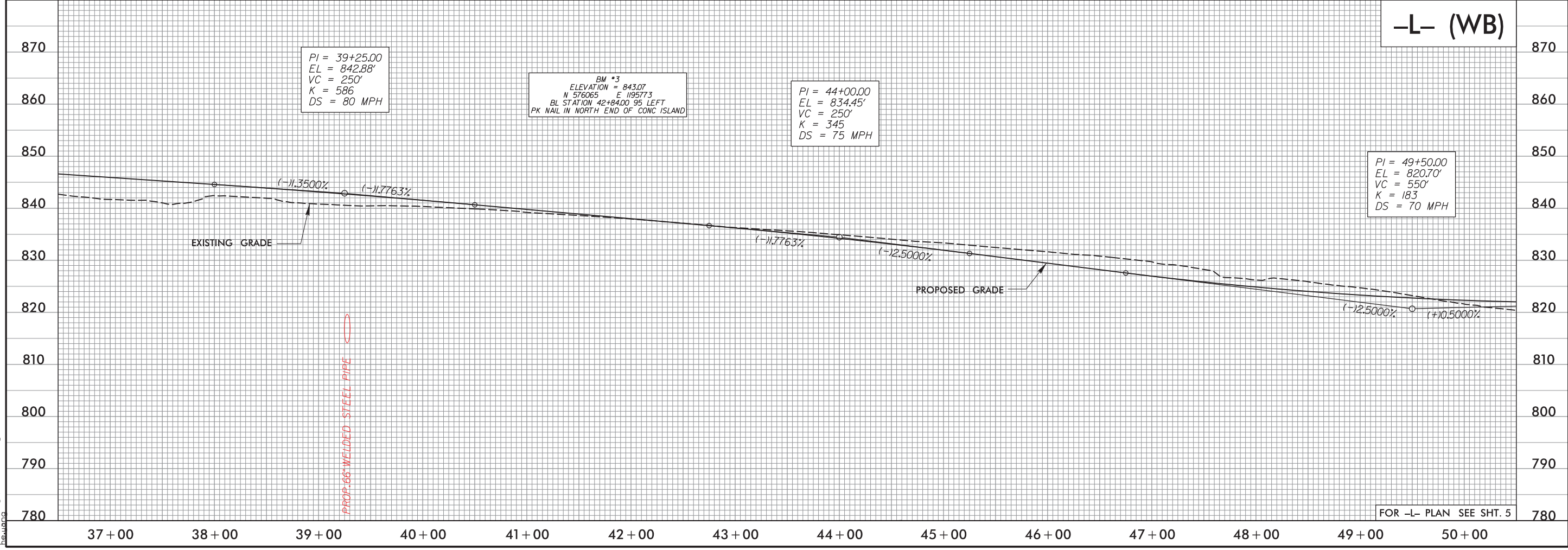
5/28/99

-L- (EB)

PROJECT REFERENCE NO. R-4045	SHEET NO. 17
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



-L- (WB)

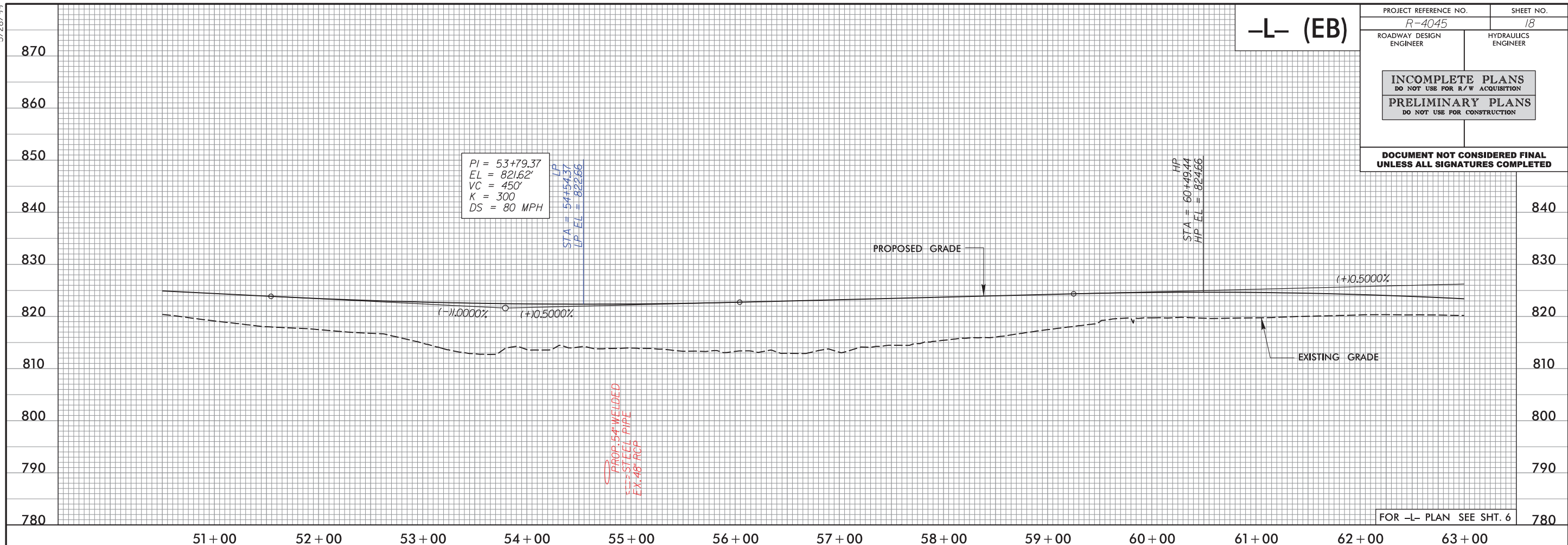


23 FEB 2024 10:57 WRA.dgn
R31045 R01-1117

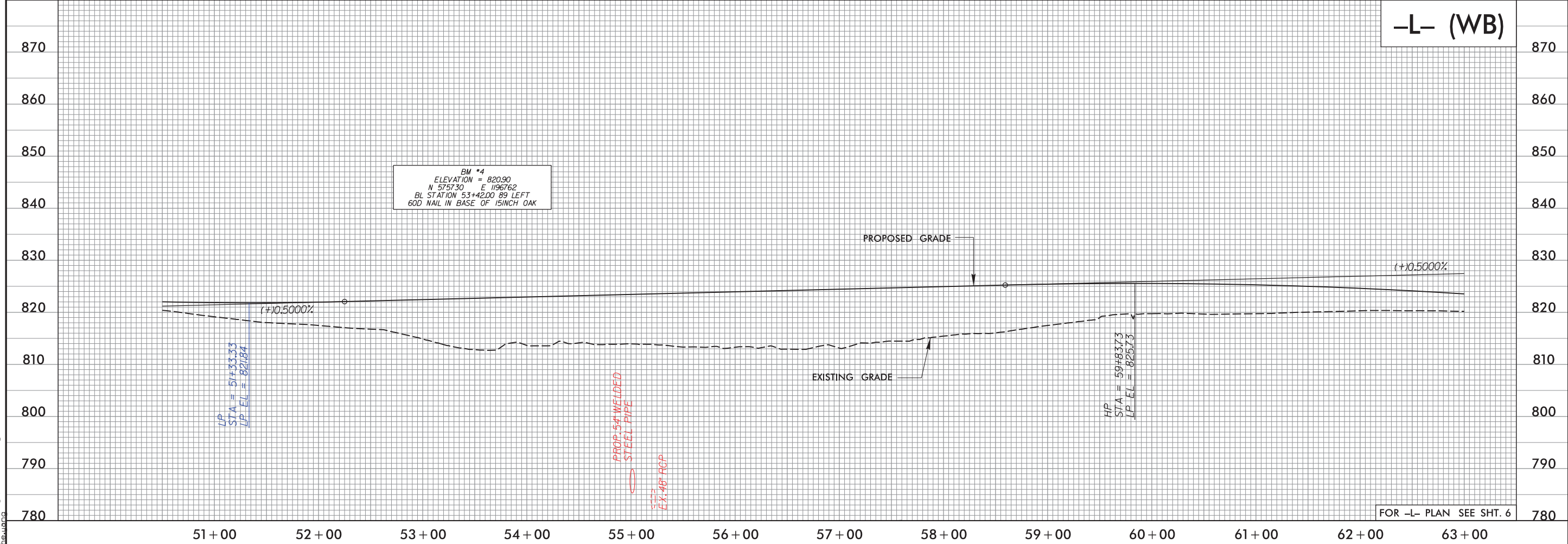
5/28/99

-L- (EB)

PROJECT REFERENCE NO. <i>R-4045</i>	SHEET NO. <i>18</i>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



-L- (WB)



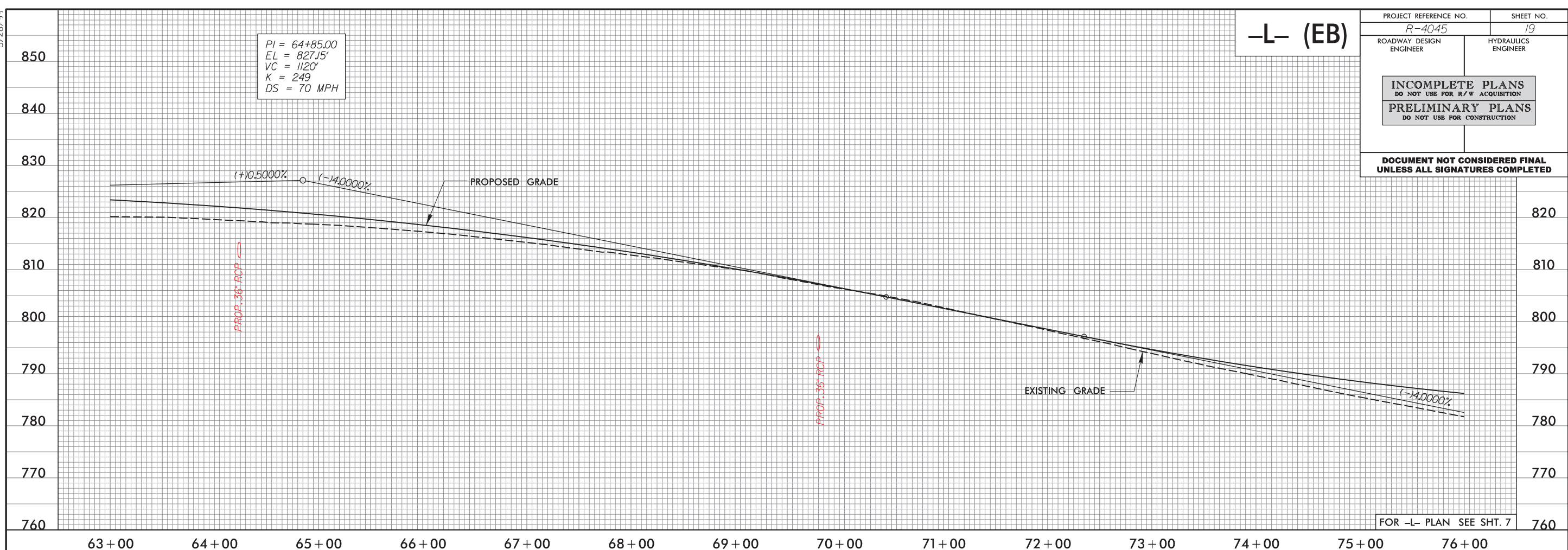
R23.FEB.2024 11:58 WRA.dgn
R23045.FG1-11182.WRA.dgn
heavaco

5/28/99

PI = 64+85.00
EL = 827.15'
VC = 1120'
K = 249
DS = 70 MPH

-L- (EB)

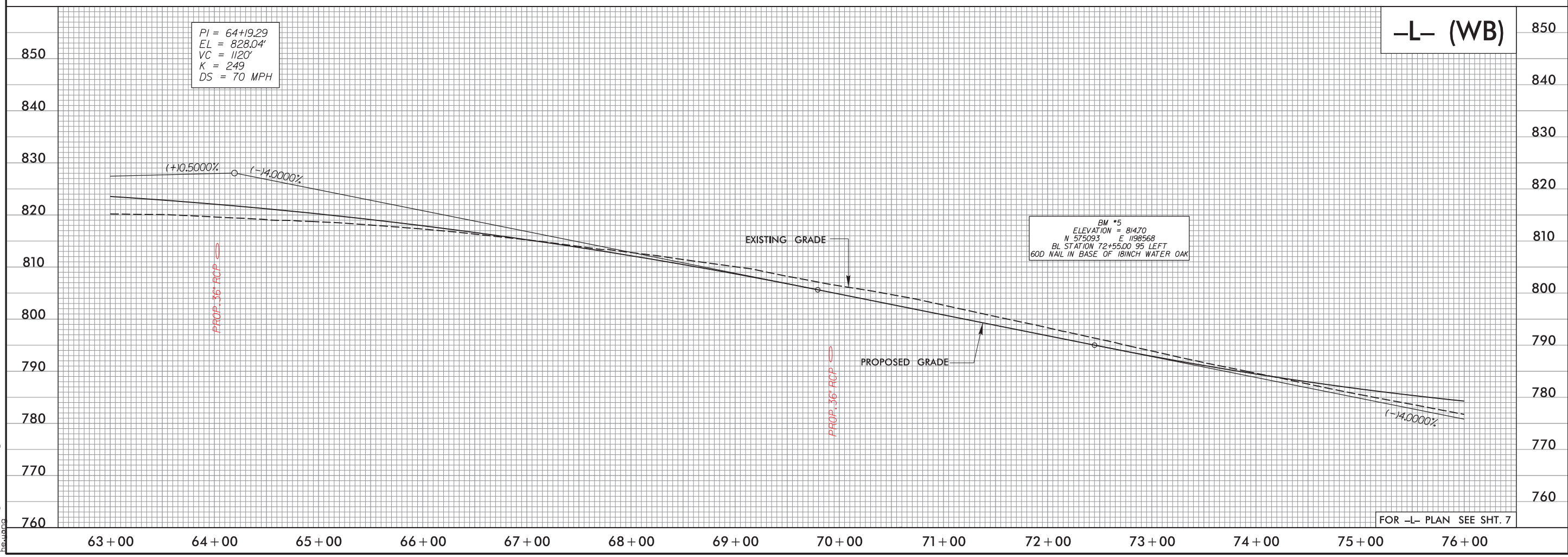
PROJECT REFERENCE NO. R-4045	SHEET NO. 19
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



PI = 64+19.29
EL = 828.04'
VC = 1120'
K = 249
DS = 70 MPH

-L- (WB)

BM *5
ELEVATION = 814.70
N 575093 E 1198568
BL STATION 72+55.00 95 LEFT
60D NAIL IN BASE OF 18INCH WATER OAK

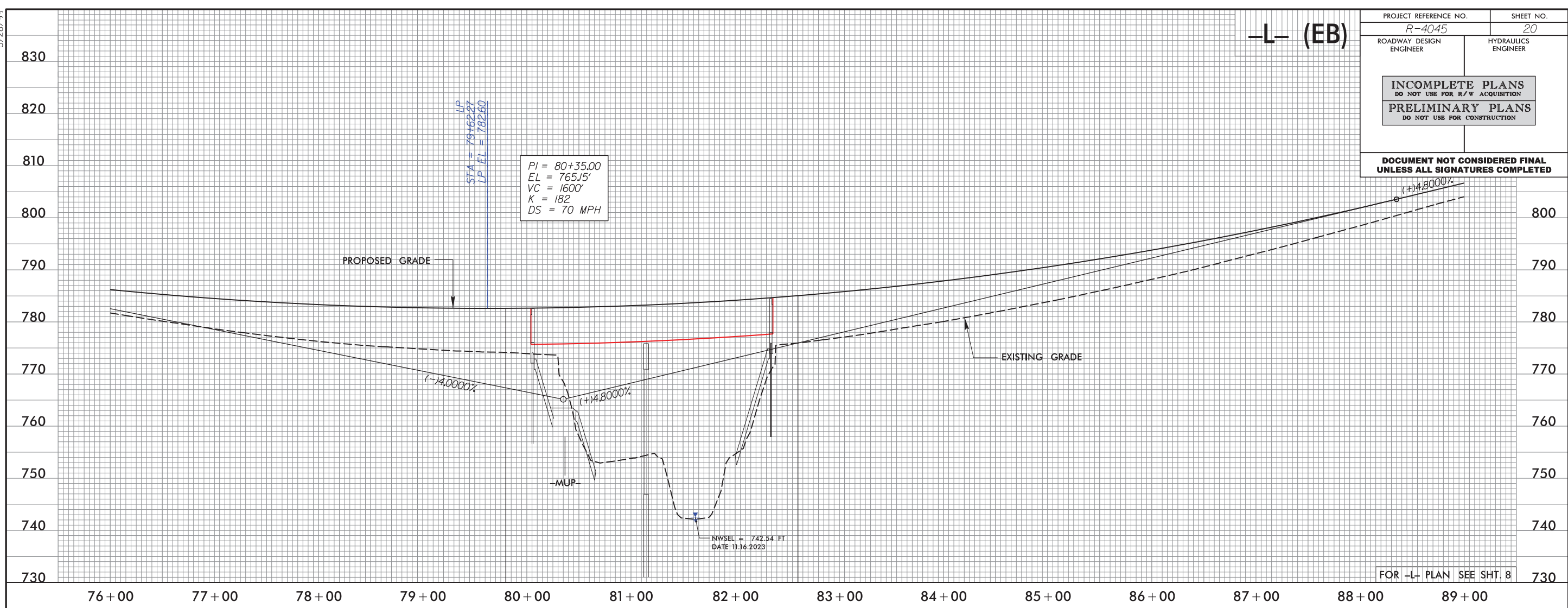


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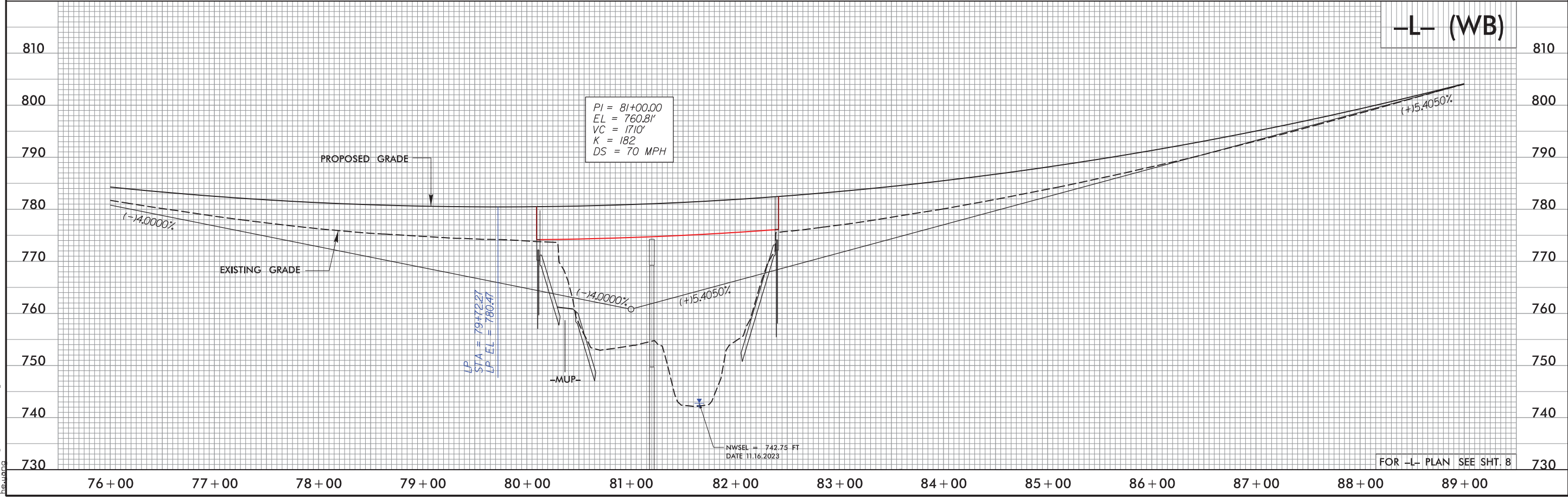
5/28/99

-L- (EB)

PROJECT REFERENCE NO. R-4045	SHEET NO. 20
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



-L- (WB)



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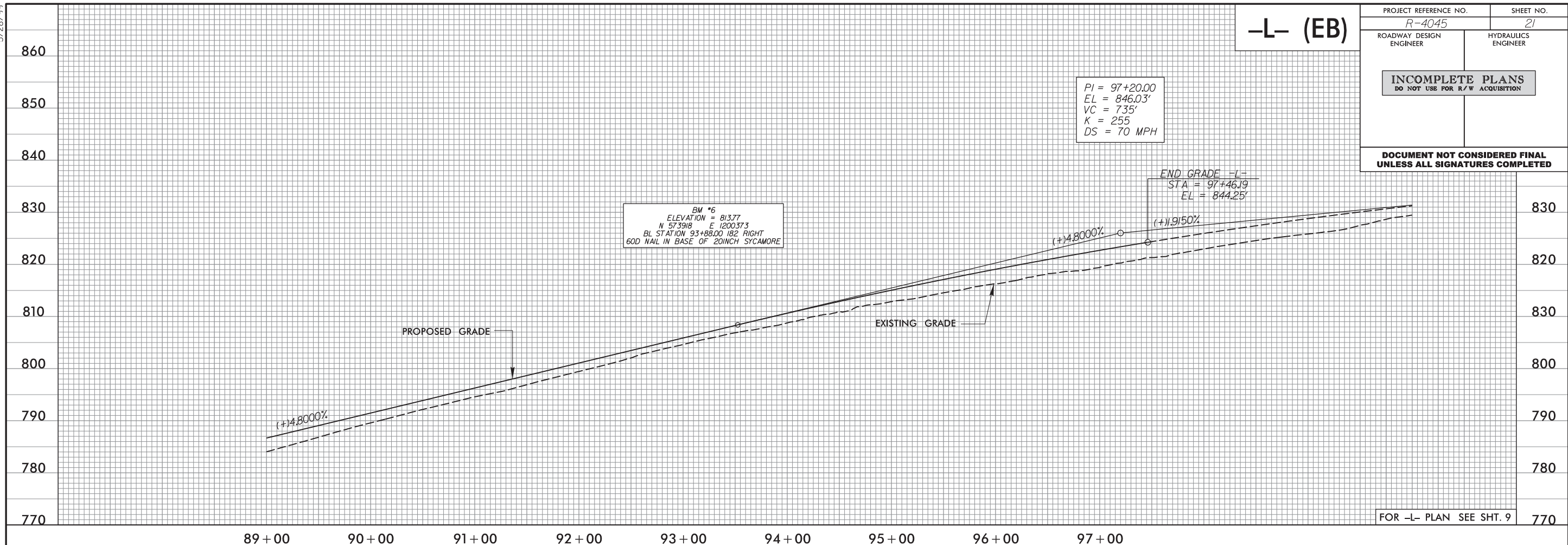
-L- (EB)

PROJECT REFERENCE NO. R-4045	SHEET NO. 21
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

PI = 97+20.00
EL = 846.03'
VC = 735'
K = 255
DS = 70 MPH

BM *6
ELEVATION = 813.77
N 57.3918 E 120037.3
BL STATION 93+88.00 182 RIGHT
60D NAIL IN BASE OF 20INCH SYCAMORE

END GRADE -L-
STA = 97+46.19
EL = 844.25'

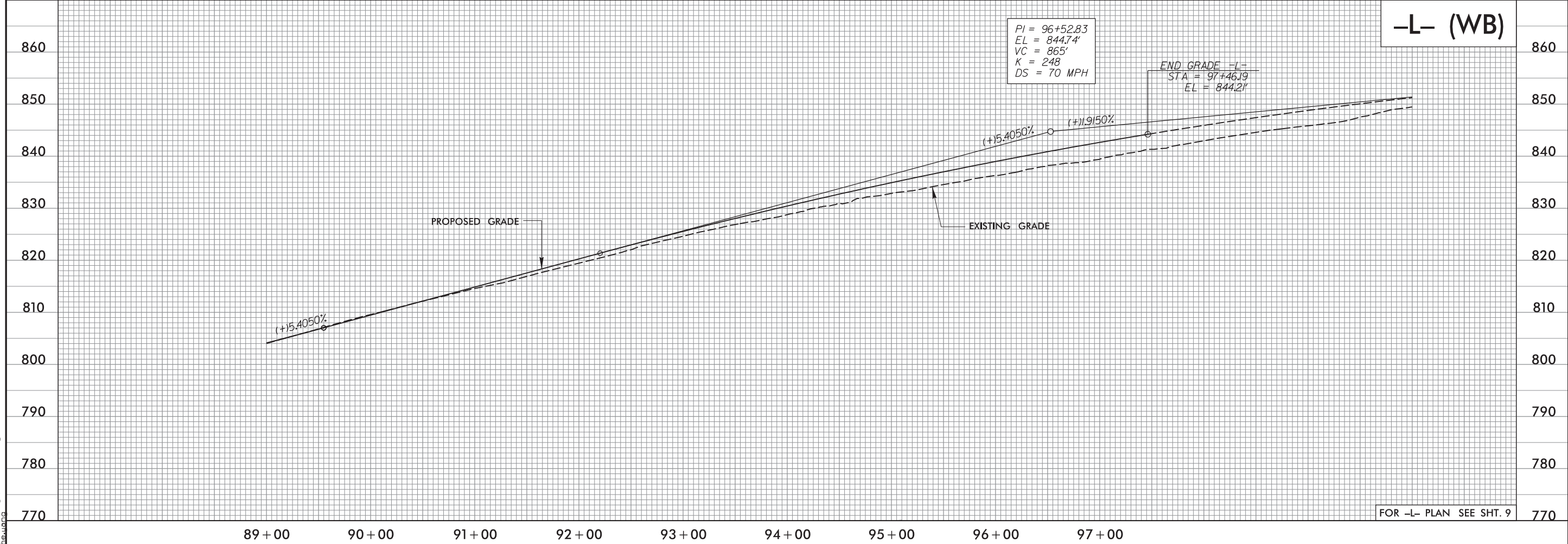


FOR -L- PLAN SEE SHT. 9

-L- (WB)

PI = 96+52.83
EL = 844.74'
VC = 865'
K = 248
DS = 70 MPH

END GRADE -L-
STA = 97+46.19
EL = 844.21'



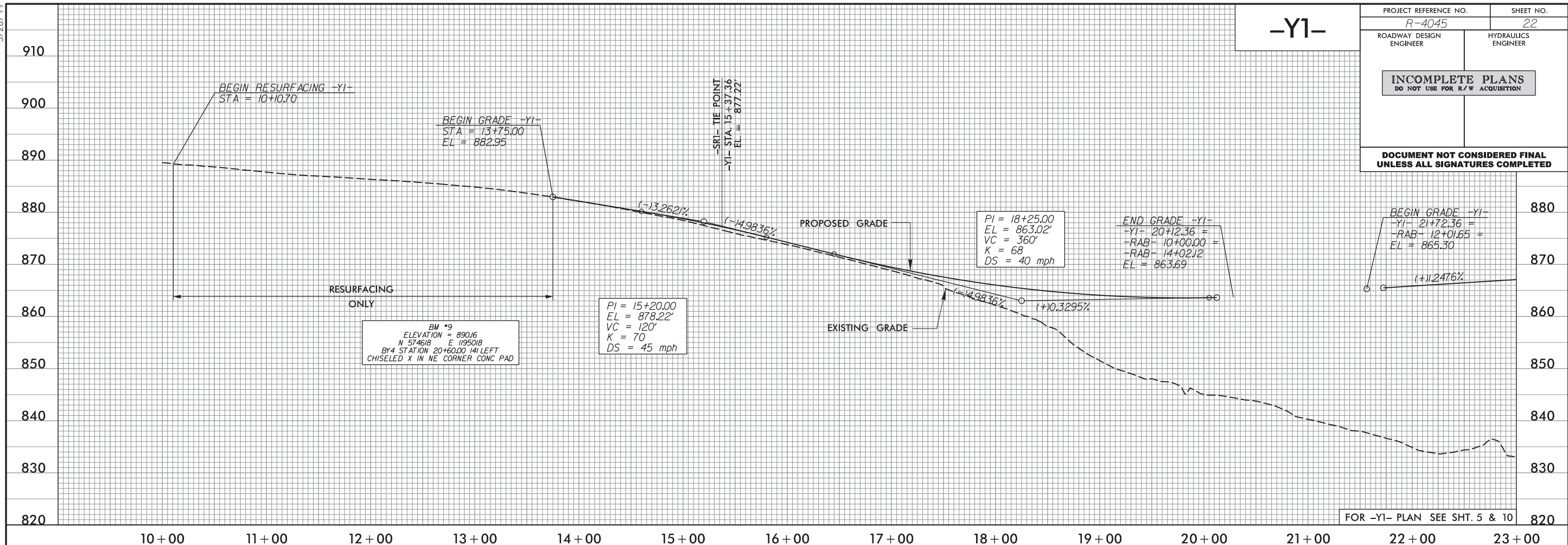
FOR -L- PLAN SEE SHT. 9

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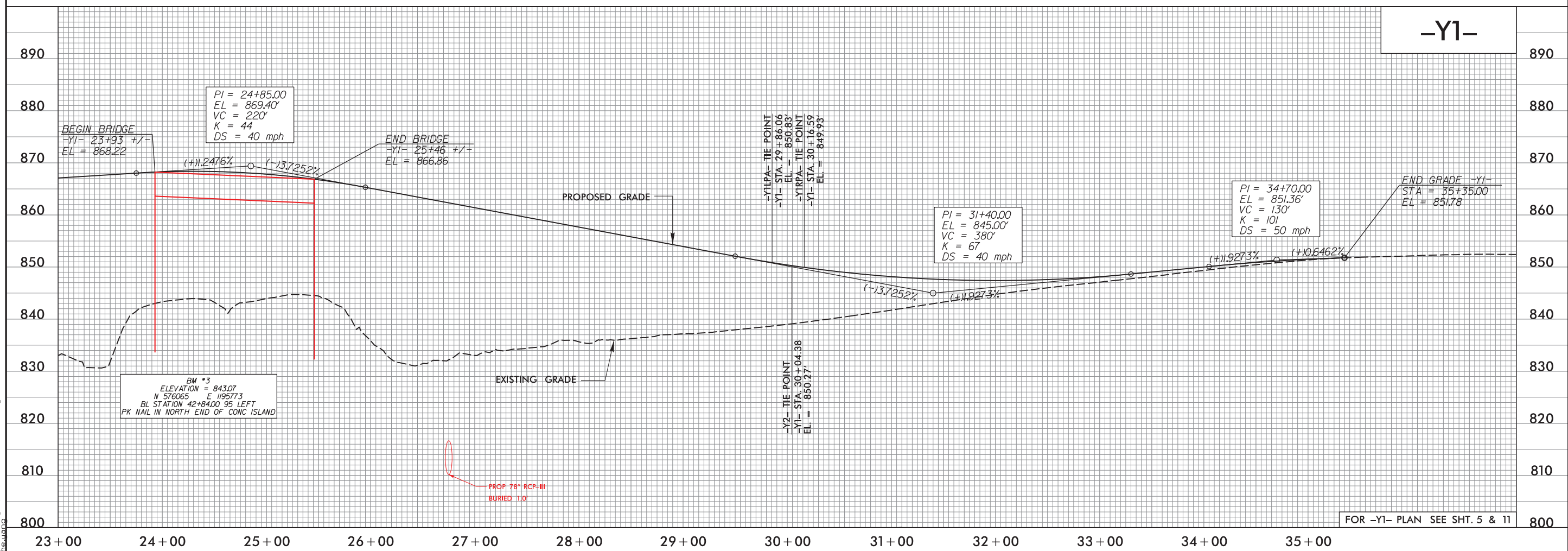
5/28/99

-Y1-

PROJECT REFERENCE NO. R-4045	SHEET NO. 22
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



-Y1-



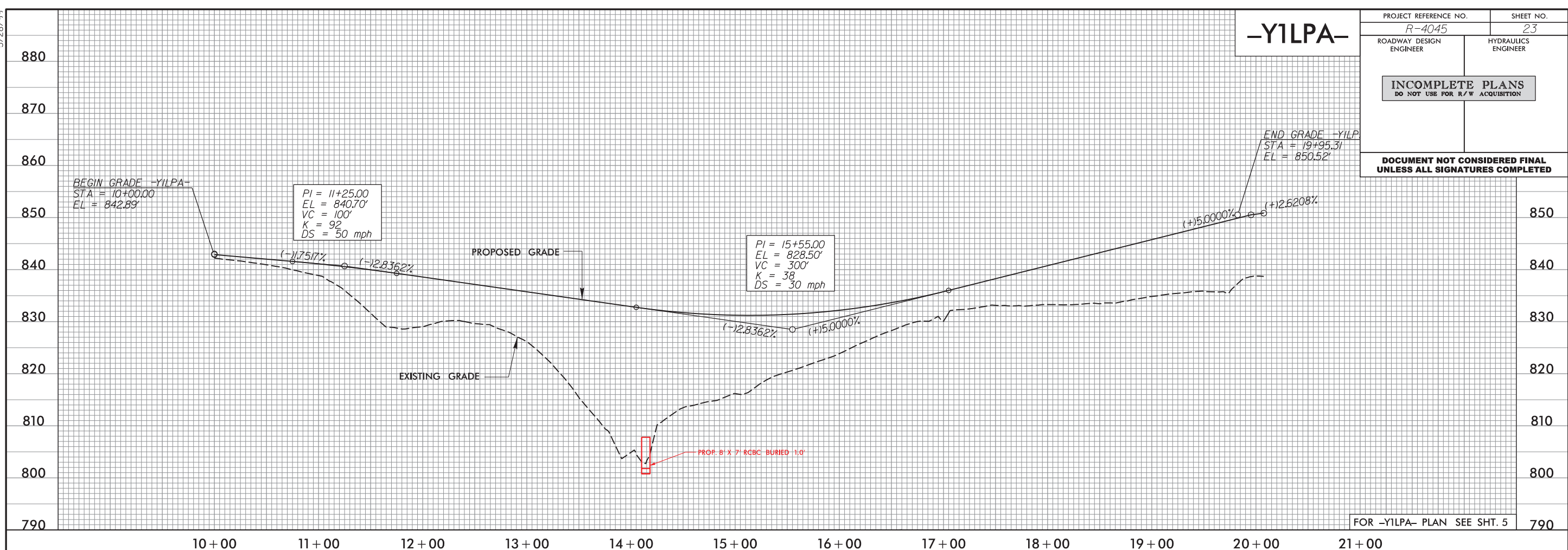
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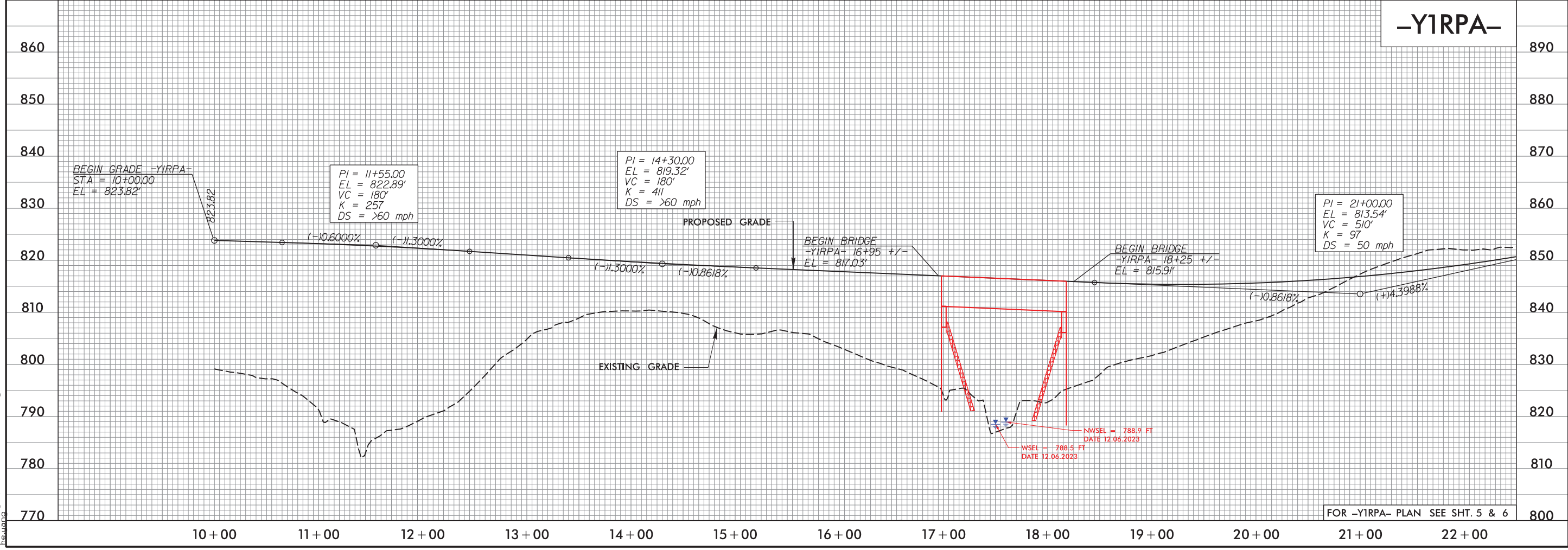
-Y1LPA-

PROJECT REFERENCE NO. R-4045	SHEET NO. 23
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



-Y1RPA-

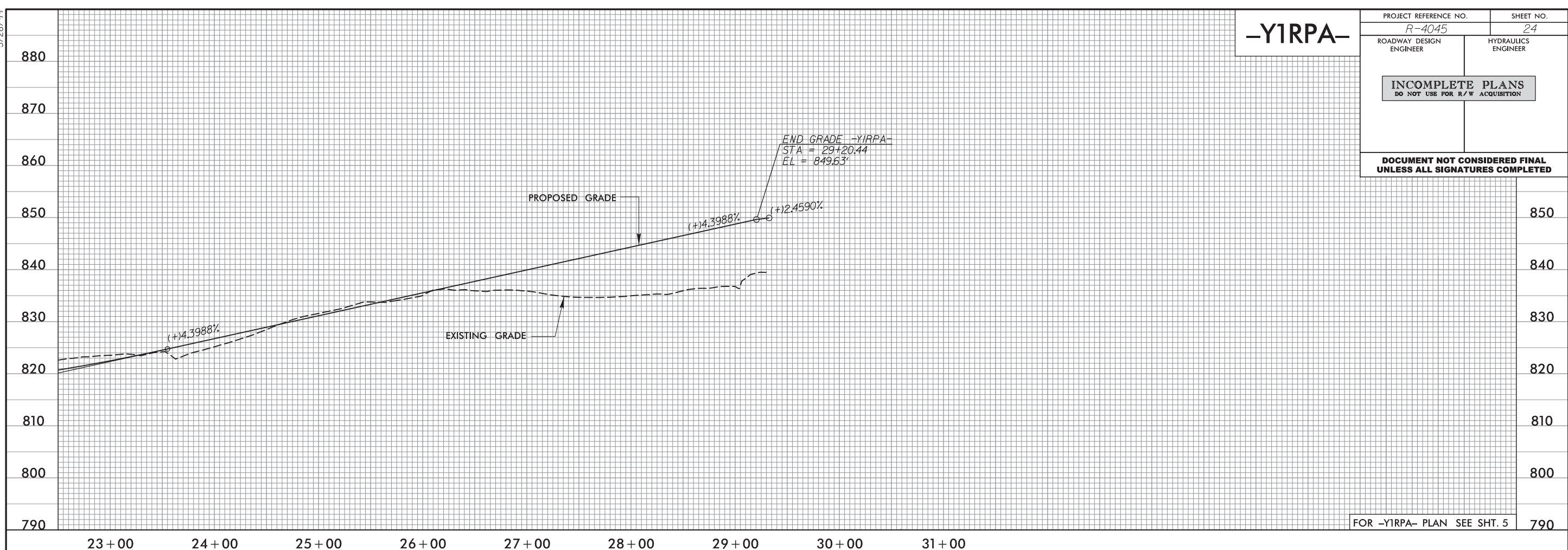


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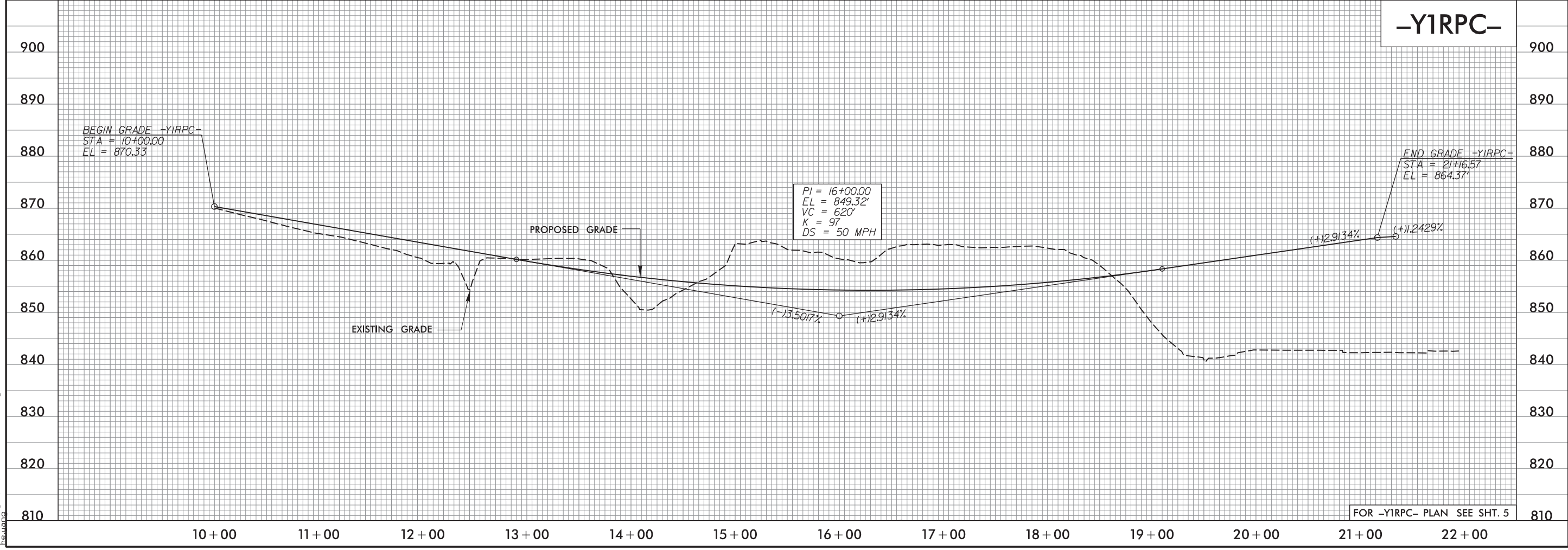
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-Y1RPA-

PROJECT REFERENCE NO. R-4045	SHEET NO. 24
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



-Y1RPC-

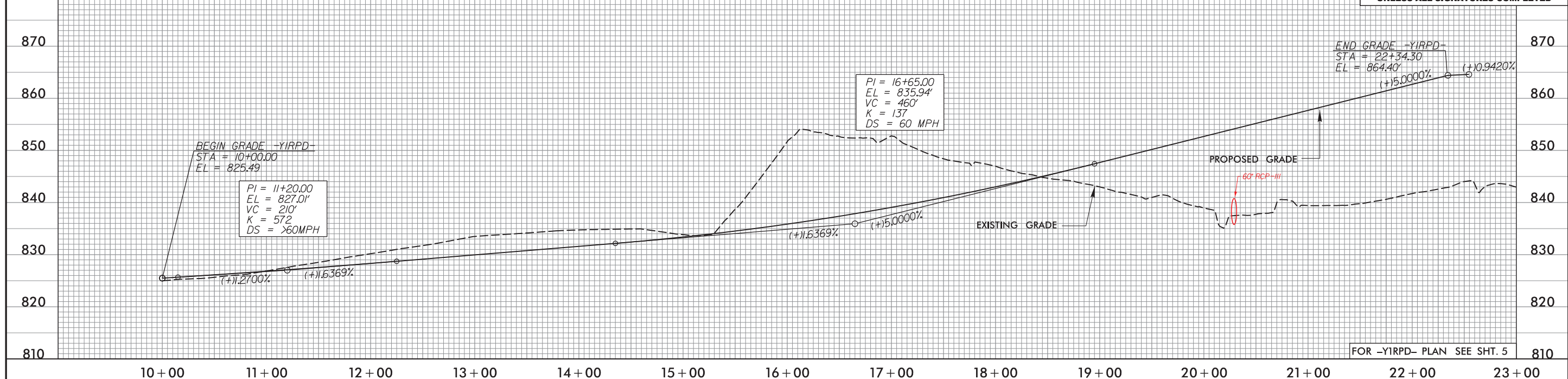


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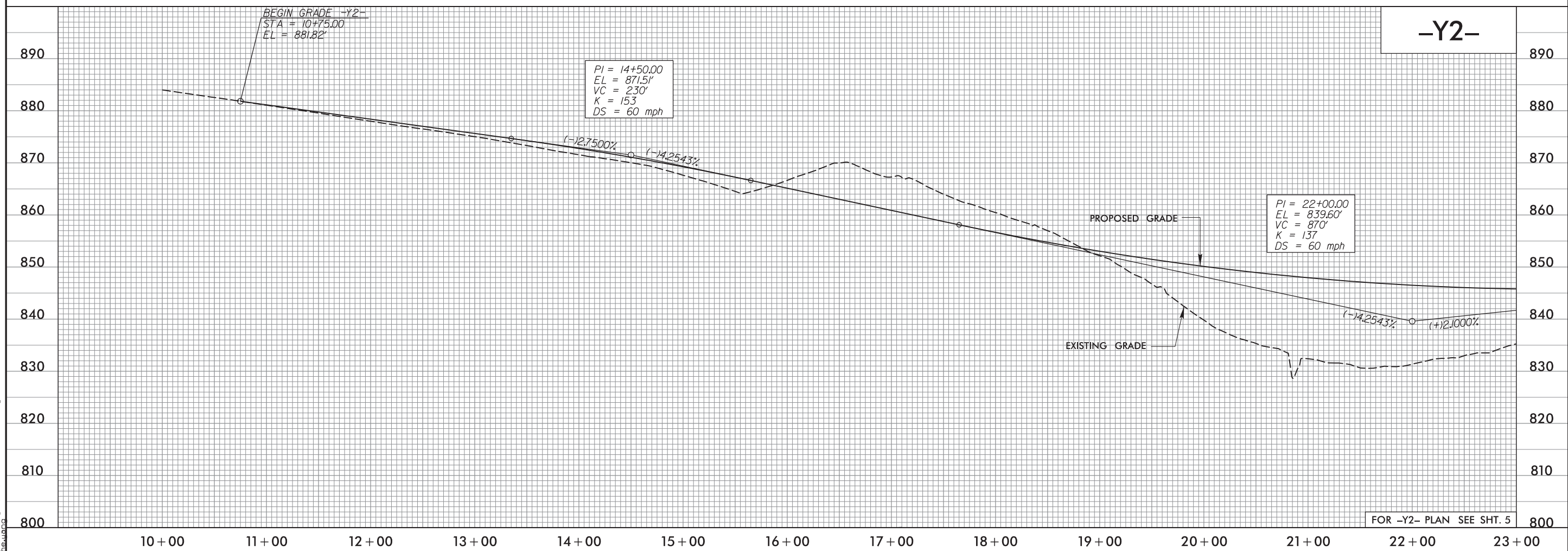
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-Y1RPD-

PROJECT REFERENCE NO. R-4045	SHEET NO. 25
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



-Y2-



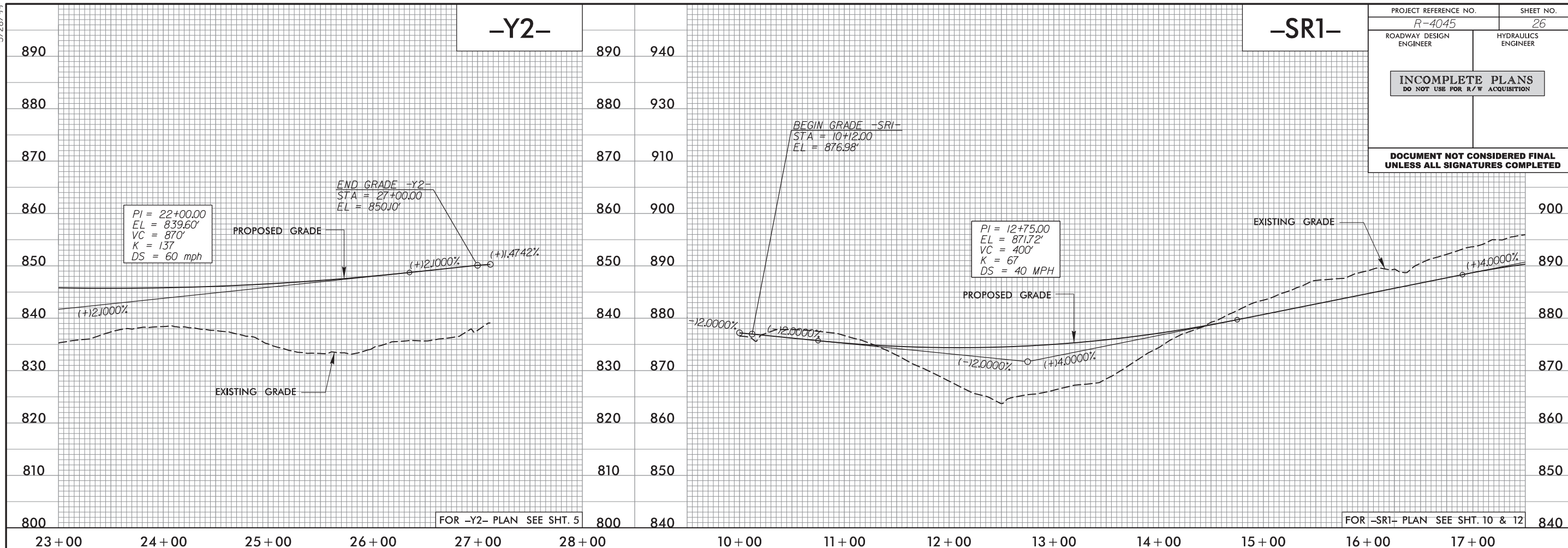
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-Y2-

-SR1-

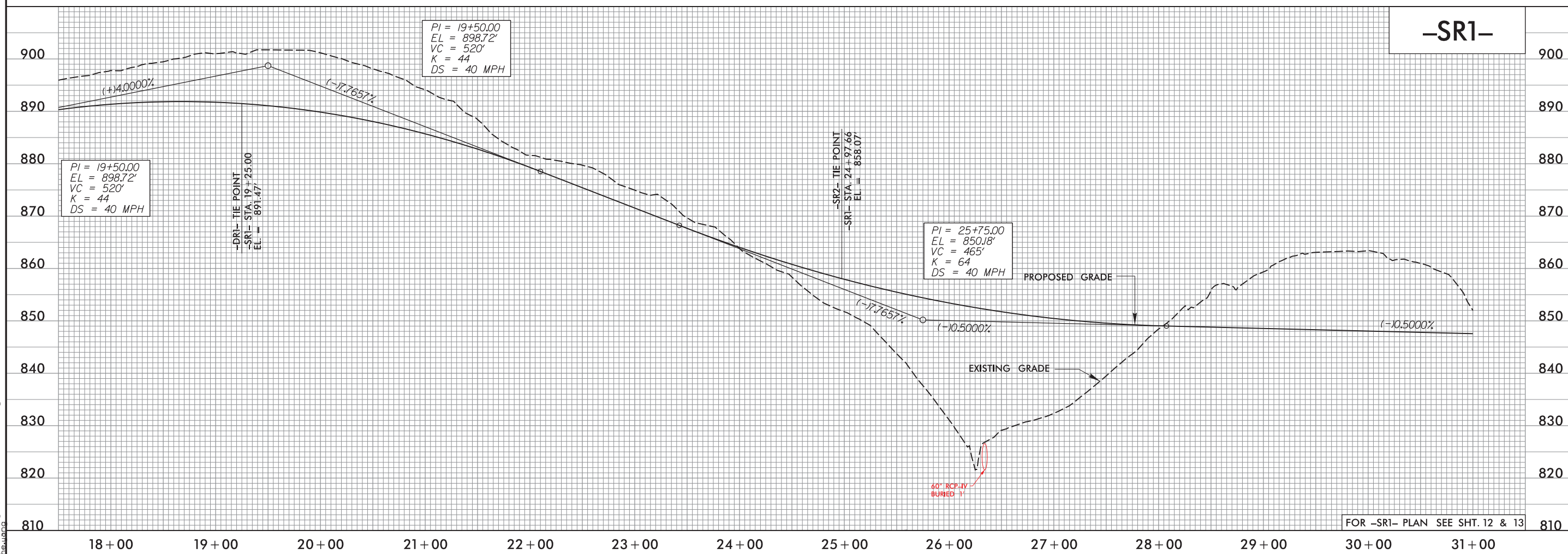
PROJECT REFERENCE NO. R-4045	SHEET NO. 26
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



FOR -Y2- PLAN SEE SHT. 5

FOR -SR1- PLAN SEE SHT. 10 & 12

-SR1-



FOR -SR1- PLAN SEE SHT. 12 & 13

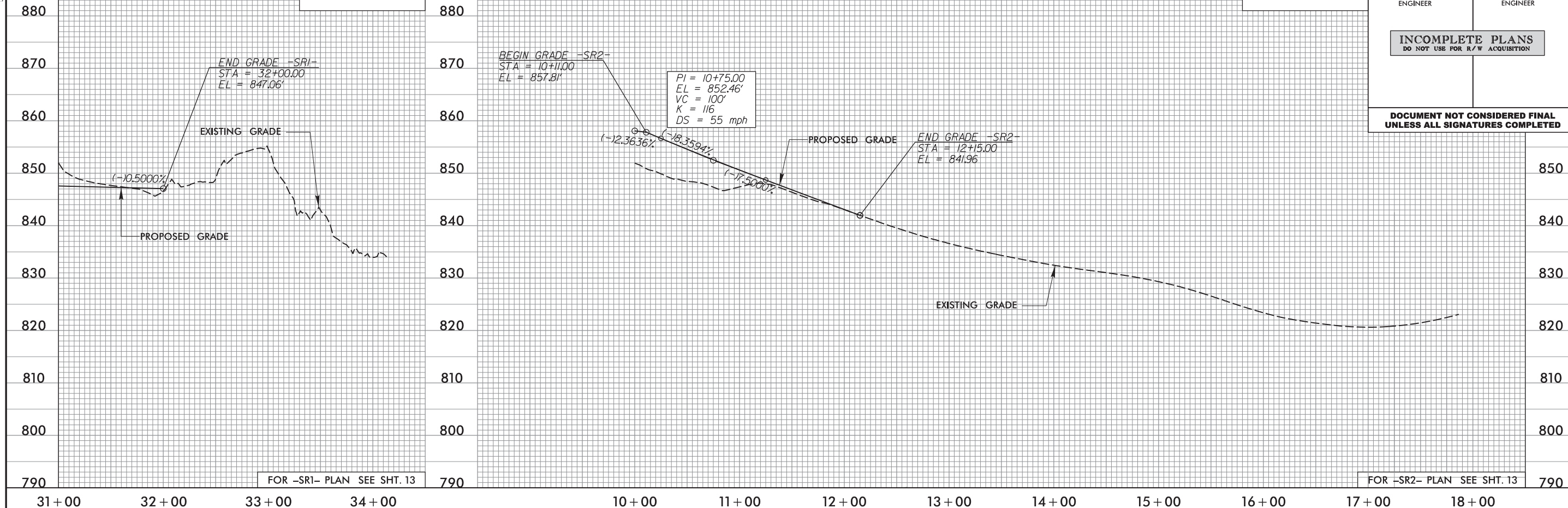
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-SR1-

-SR2-

PROJECT REFERENCE NO. R-4045	SHEET NO. 27
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

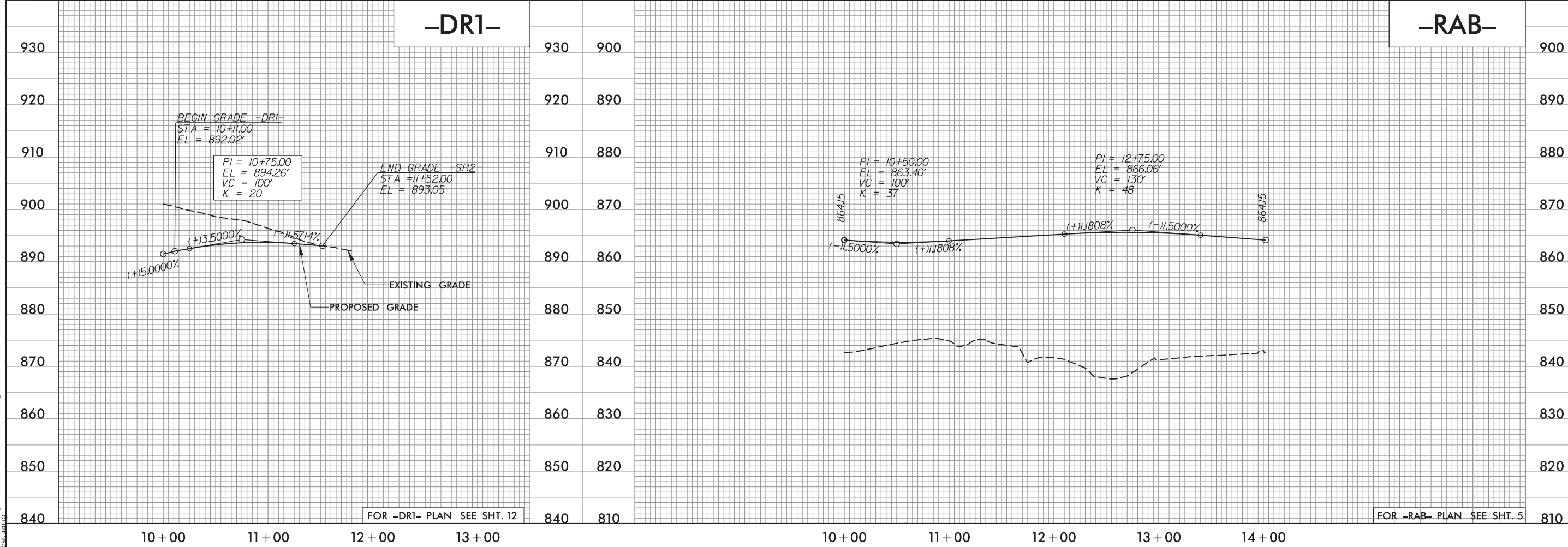


FOR -SR1- PLAN SEE SHT. 13

FOR -SR2- PLAN SEE SHT. 13

-DR1-

-RAB-



FOR -DR1- PLAN SEE SHT. 12

FOR -RAB- PLAN SEE SHT. 5

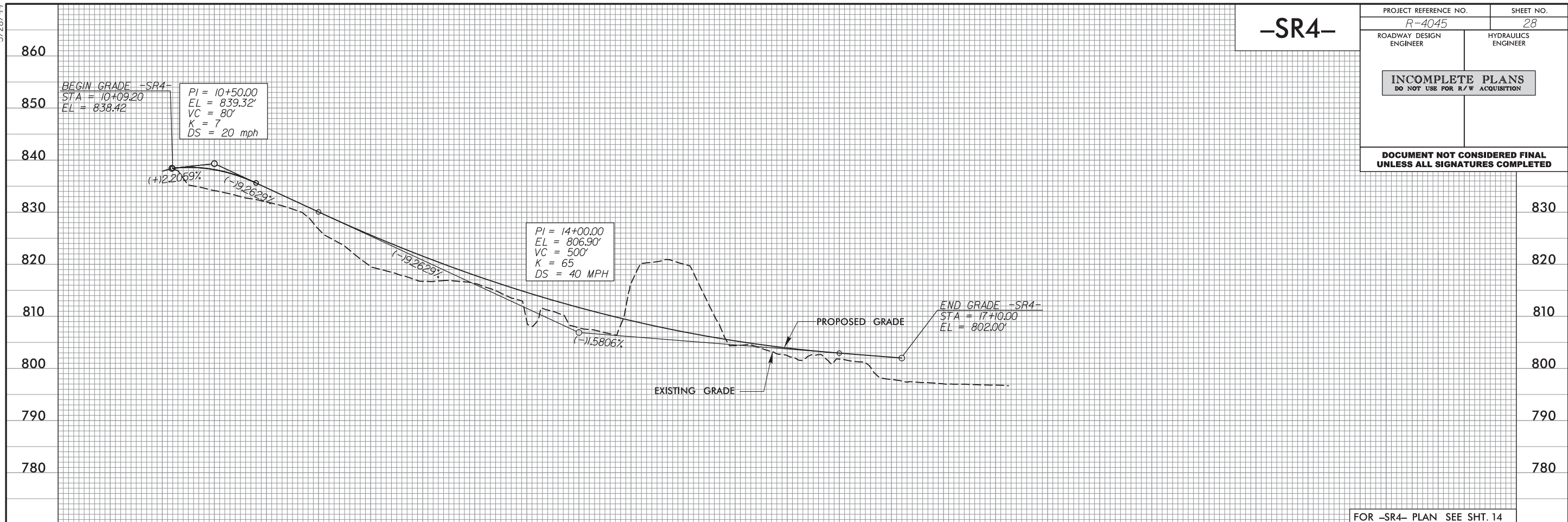
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R23045.Fig-p1 ipsh27 -summit_4B.dgn
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5/28/99

-SR4-

PROJECT REFERENCE NO. R-4045	SHEET NO. 28
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



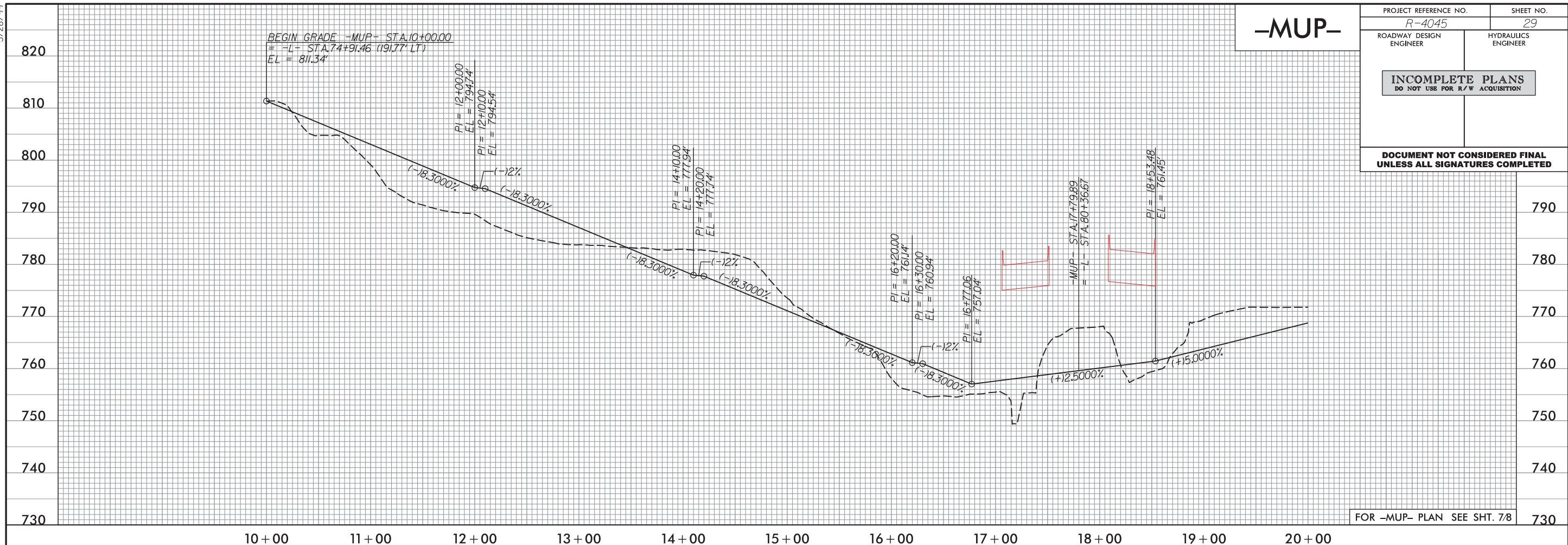
FOR -SR4- PLAN SEE SHT. 14

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5/28/99

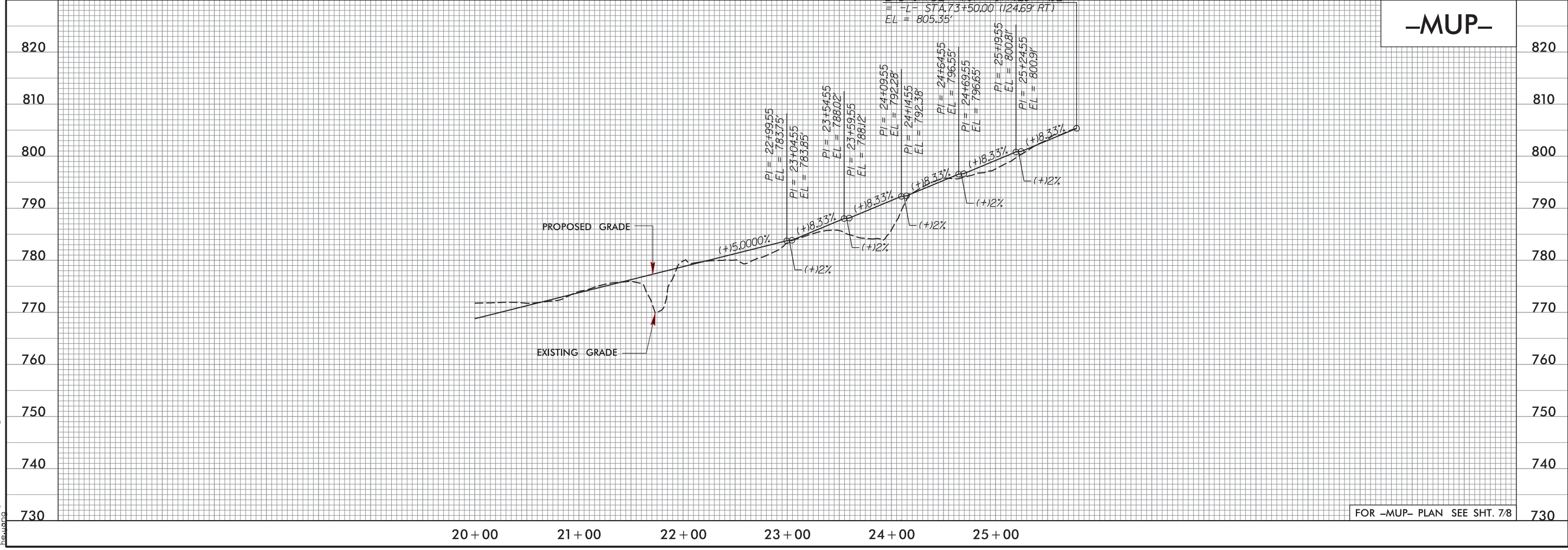
-MUP-

PROJECT REFERENCE NO. R-4045	SHEET NO. 29
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



FOR -MUP- PLAN SEE SHT. 78

-MUP-



FOR -MUP- PLAN SEE SHT. 78

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