

R-2576 Mid-Currituck Bridge

Attachment 4:

# **Right-of-Way Plans June, 2024**

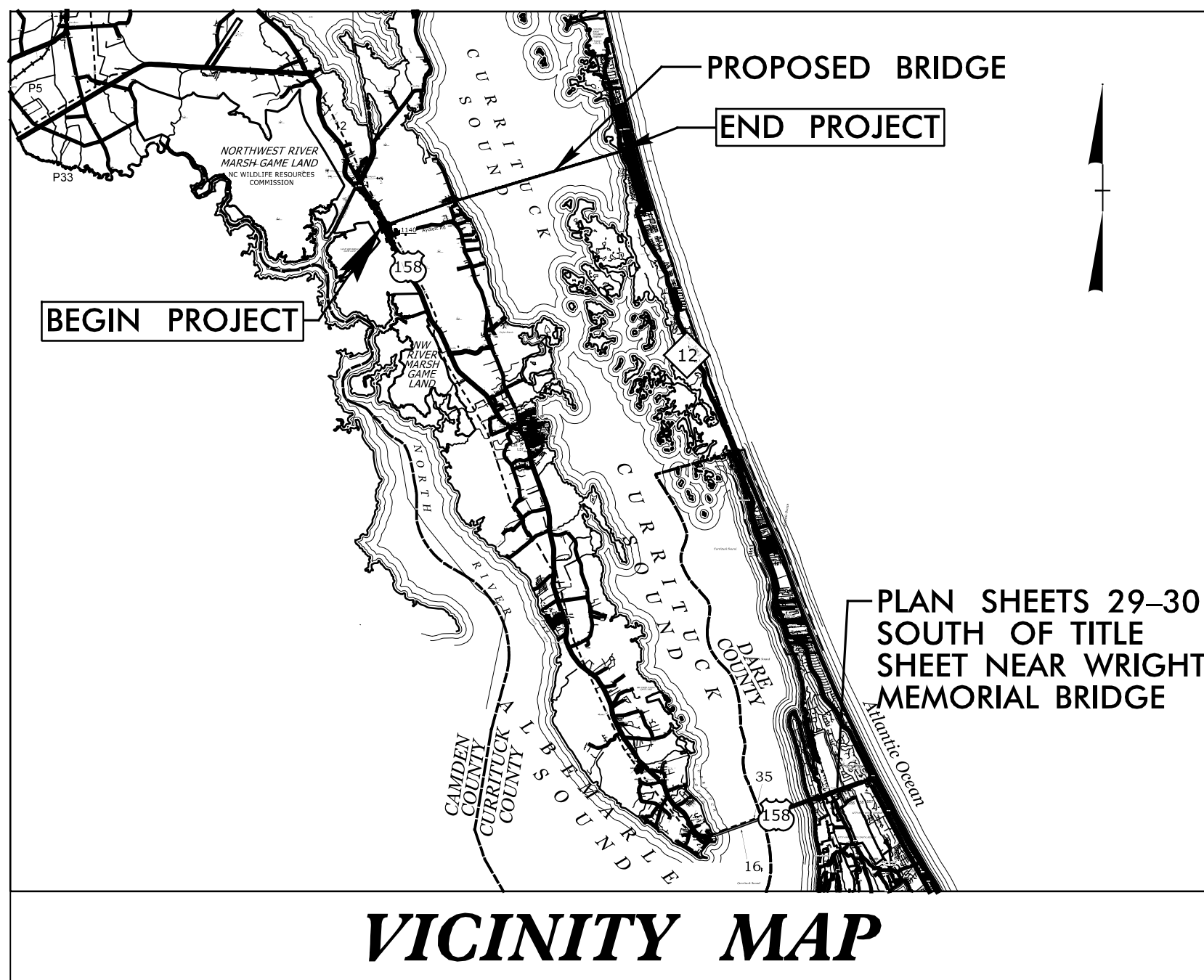
09/08/99

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

# STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-2576	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
34470.1.TA1	BRSTP-000(494)	P.E.	

**TIP PROJECT: R-2576**

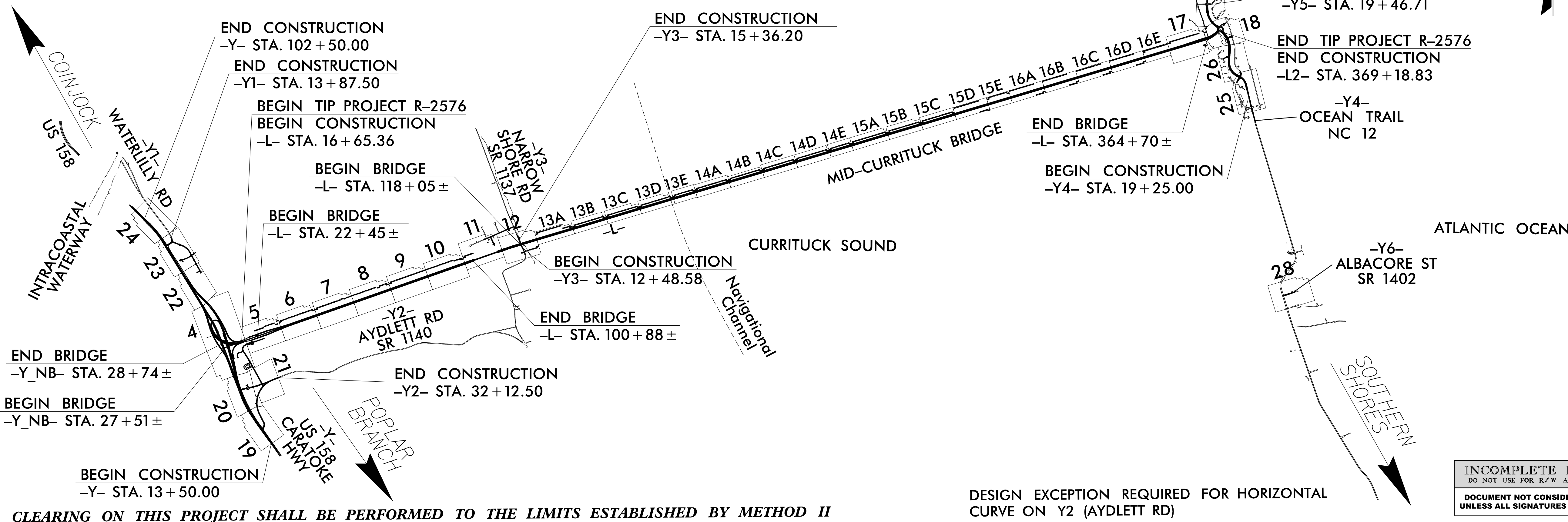


**75% PLANS**

## CURRITUCK & DARE COUNTIES

**LOCATION: MID-CURRITUCK BRIDGE FROM US 158 SOUTH OF COINJOCK TO NC 12 SOUTH OF COROLLA**

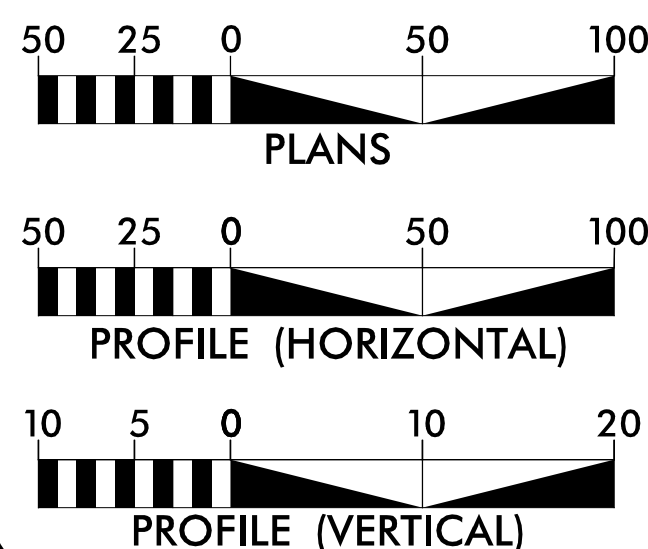
**TYPE OF WORK: GRADING, DRAINAGE, PAVING, AND STRUCTURES**



NAD 83 /2011

**CONTRACT:**

### GRAPHIC SCALES



### DESIGN DATA

# ADT 2020 = 11,800  
 # ADT 2040 = 18,000  
 K = 9 %  
 D = 60 %  
 T = 7 % \*  
 V = 60 MPH  
 \* (TTST = 2) + (DUAL = 1)  
 + (RV = 4)  
 FUNC CLASS =  
 ARTERIAL STATEWIDE TIER

### PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT R-2576 = 0.520 Miles  
 LENGTH STRUCTURES = 6.157 Miles  
 TOTAL LENGTH TIP PROJECT R-2576 = 6.677 Miles

# PROJECT LEVEL TRAFFIC FORECAST (JUNE 2016) (SUMMER WEEKEND)

DESIGN EXCEPTION REQUIRED FOR HORIZONTAL CURVE ON Y2 (AYDLETT RD)

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

17-JUN-2024 08:35 R:\Roadway\Proj\R2576\_rdy\_TSH.dgn \$\$\$USERNAME\$\$\$

Prepared in the Office of:  
**LOCHNER**  
 H. W. LOCHNER, INC.  
 2840 PLAZA PLACE, SUITE 202  
 RALEIGH, NC 27612  
 (919) 571-7111

1223 Jones Franklin Rd.  
 Raleigh, NC 27606  
 License No. P-2077  
 Bus: 919 851 8077  
 Fax: 919 851 8107

2024 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:  
FY 2024

LETTING DATE:  
FY 2026

**BRIAN K. EASON, PE**  
PROJECT ENGINEER

**CHRISTINA L. YOKEY, PE**  
PROJECT DESIGN ENGINEER

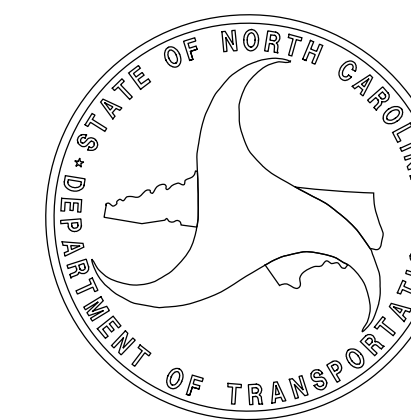
**DENNIS JERNIGAN, PE**  
NCDOT /NCTA

HYDRAULICS ENGINEER

SIGNATURE: \_\_\_\_\_ P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE: \_\_\_\_\_ P.E.



# 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
Potential Contamination Area: Soil	? S
Known Contamination Area: Water	☠ W
Potential Contamination Area: Water	? W
Contaminated Site: Known or Potential	☠ ?

### BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G Tank Cap	○
Sign	⊙
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	← FLOW
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	E
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 T T
Proposed Guardrail	T T T
Existing Cable Guiderail	T T T
Proposed Cable Guiderail	T T T
Equality Symbol	⊕
Pavement Removal	⊗
VEGETATION:	
Single Tree	☘
Single Shrub	☘
Hedge	-----

Woods Line	-----
Orchard	☘
Vineyard	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	⊕
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	⊕
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	⊕
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.

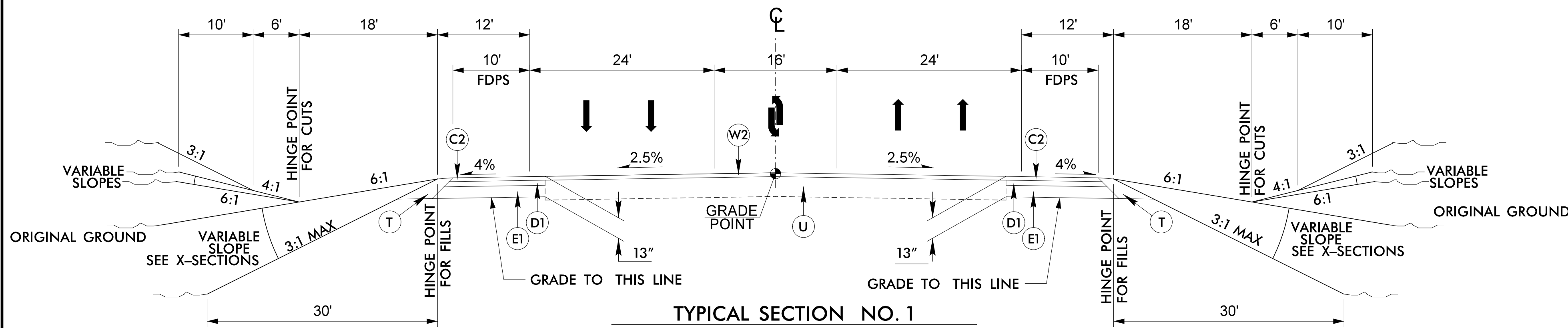
6/2/99

# PAVEMENT DESIGN PENDING

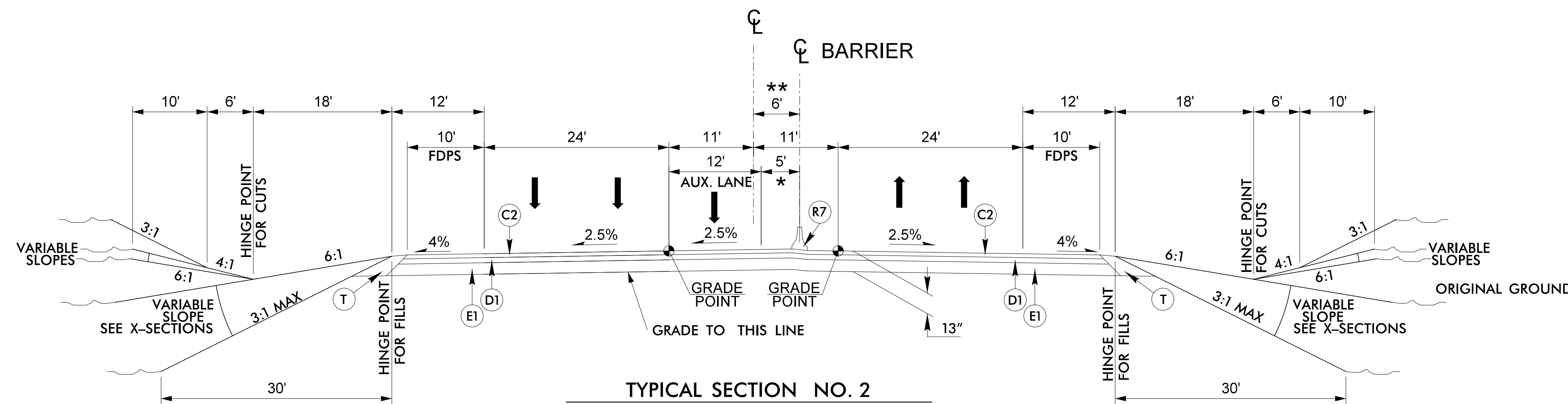
PROJECT REFERENCE NO. R-2576	SHEET NO. 2A-1
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>DOCUMENT NOT CONSIDERED FINAL</b> UNLESS ALL SIGNATURES COMPLETED	

A	12" PORTLAND CEMENT CONCRETE PAVEMENT (WITH DOWELS)	D4	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	8"x18" CONCRETE CURB
C1	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD. IN EACH OF THE TWO LAYERS	E1	PROP. APPROX. 7" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 399 LBS. PER SQ. YD. IN EACH OF THE TWO LAYERS	R4	7" JOINTED CONCRETE PAVEMENT REINFORCED WITH WIRE MESH 4x4 W3.5xW3.5
C2	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF THE TWO LAYERS	E2	PROP. APPROX. 5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.	R5	5" MONOLITHIC CONCRETE ISLAND
C3	PROP. APPROX. 1" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD.	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	SHOULDER BERM GUTTER
C4	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.	J1	PROP. 11.5" AGGREGATE BASE COURSE.	R7	MEDIAN CONCRETE BARRIER
C5	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. 4" AGGREGATE BASE COURSE.	T	EARTH MATERIAL.
C6	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 112 LBS PER SQ YD PER 1" DEPTH TO BE PLACED IN LAYERS NOT TO EXCEED 1 1/2" IN DEPTH	J3	PROP. 11" AGGREGATE BASE COURSE.	U	EXISTING PAVEMENT.
D1	PROP. APPROX. 3" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD.	J4	PROP. 5" AGGREGATE BASE COURSE.	V	MILLING (VARIABLE DEPTH)
D2	PROP. APPROX. 3.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 399 LBS. PER SQ. YD.	R1	1'-6" CONCRETE CURB AND GUTTER.	W1	VARIABLE DEPTH ASPHALT PAVEMENT (SEE STANDARD WEDGING DETAIL 1)
D3	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.	R2	2'-6" CONCRETE CURB AND GUTTER.		

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

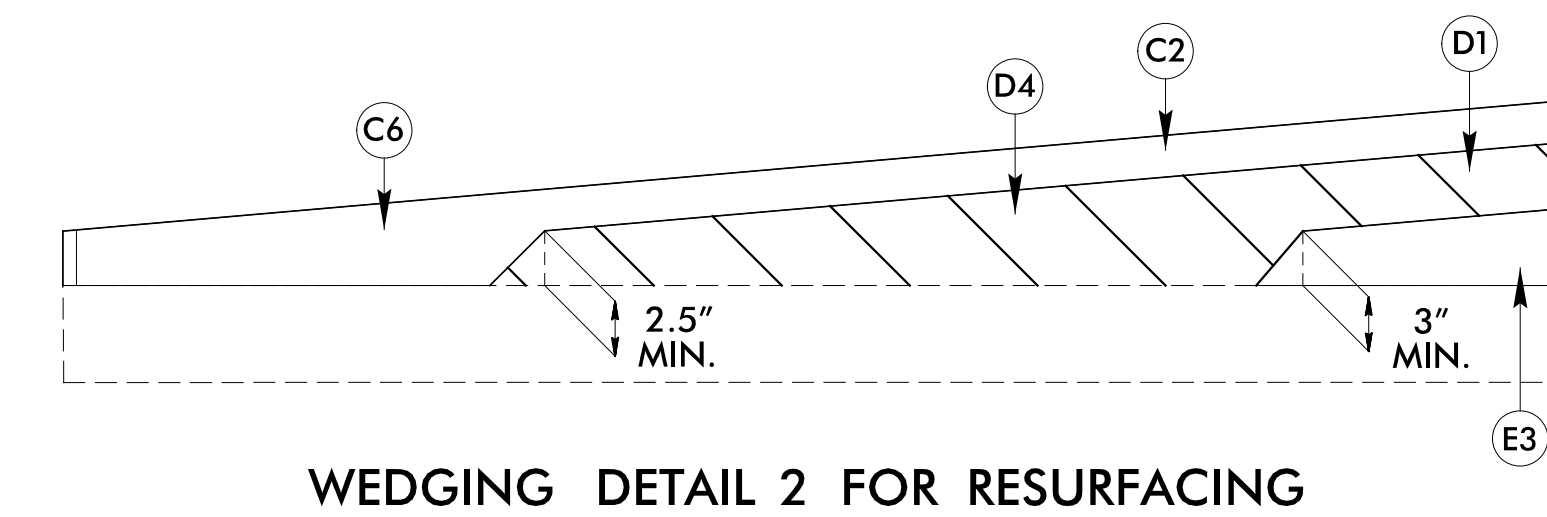
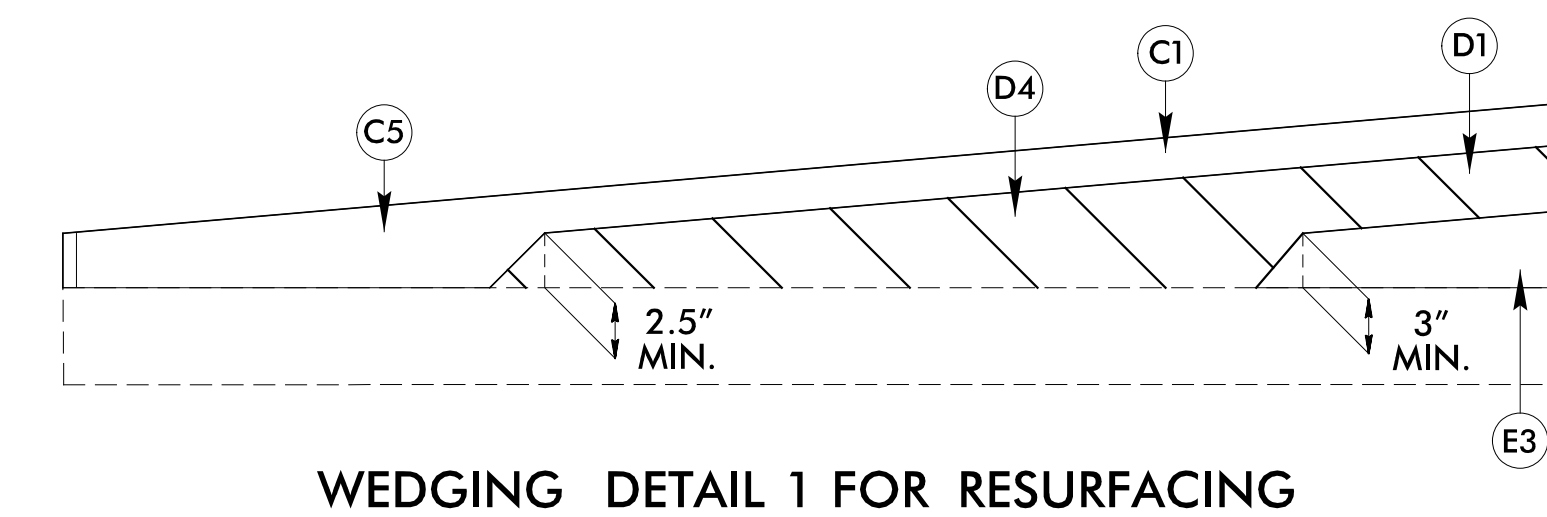
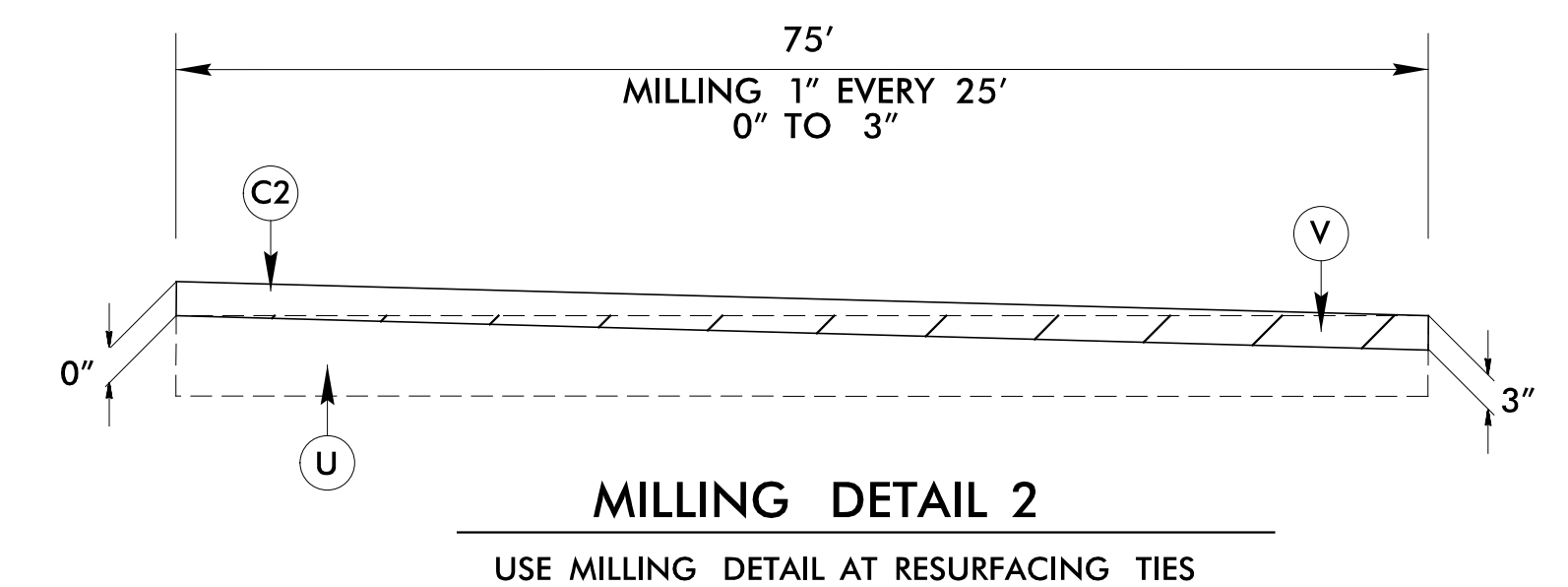
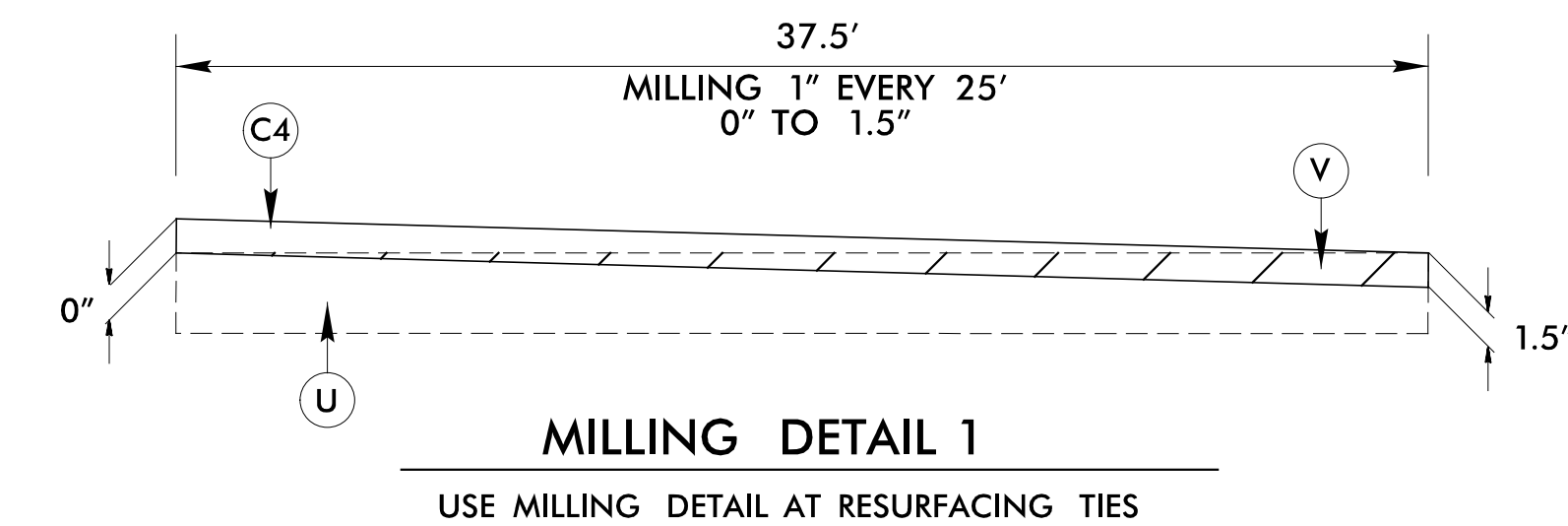


TYPICAL SECTION NO. 1  
 -Y- (US 158) STA. 14+75.00 TO 19+37.13  
 -Y- (US 158) STA. 89+00.00 TO 102+50.00



TYPICAL SECTION NO. 2  
 -Y- (US 158) STA. 19+37.13 TO 33+39.23

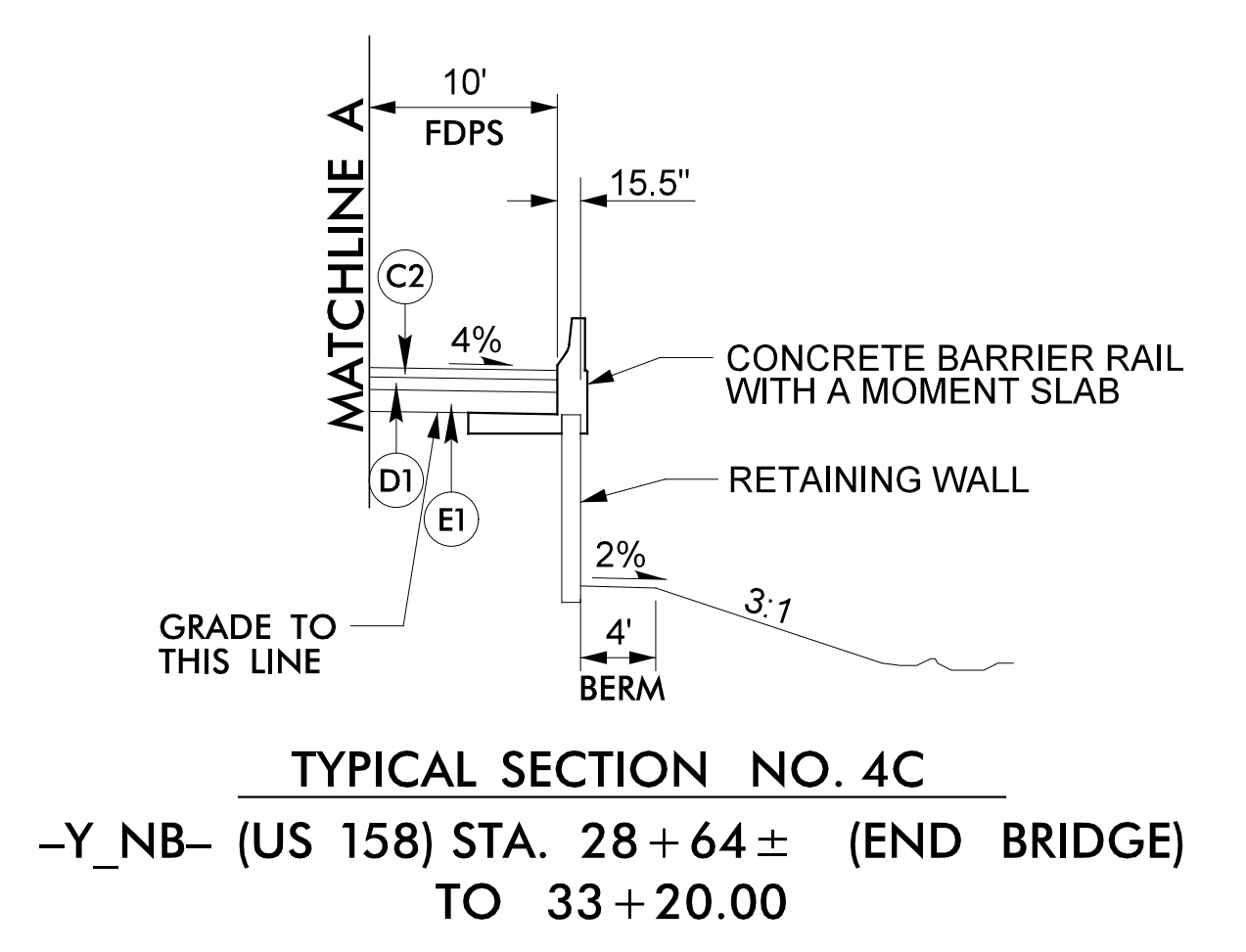
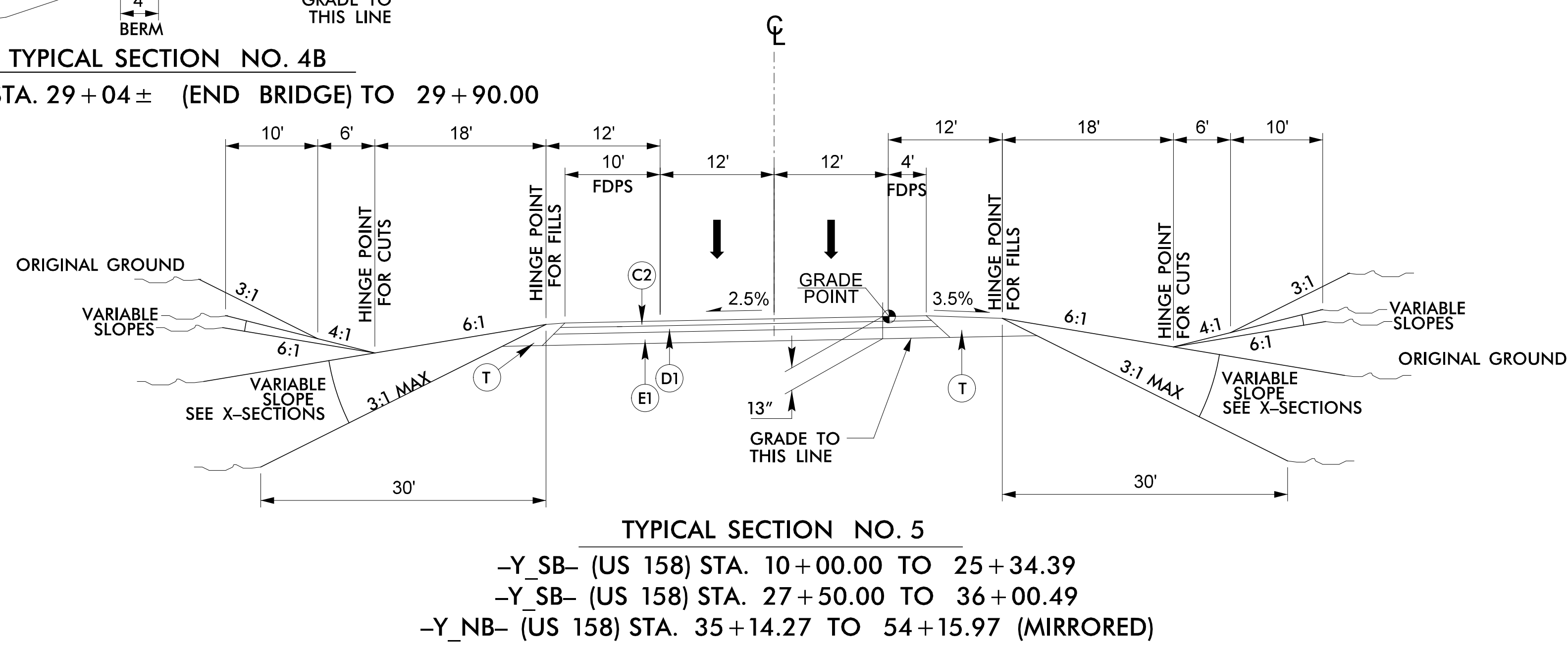
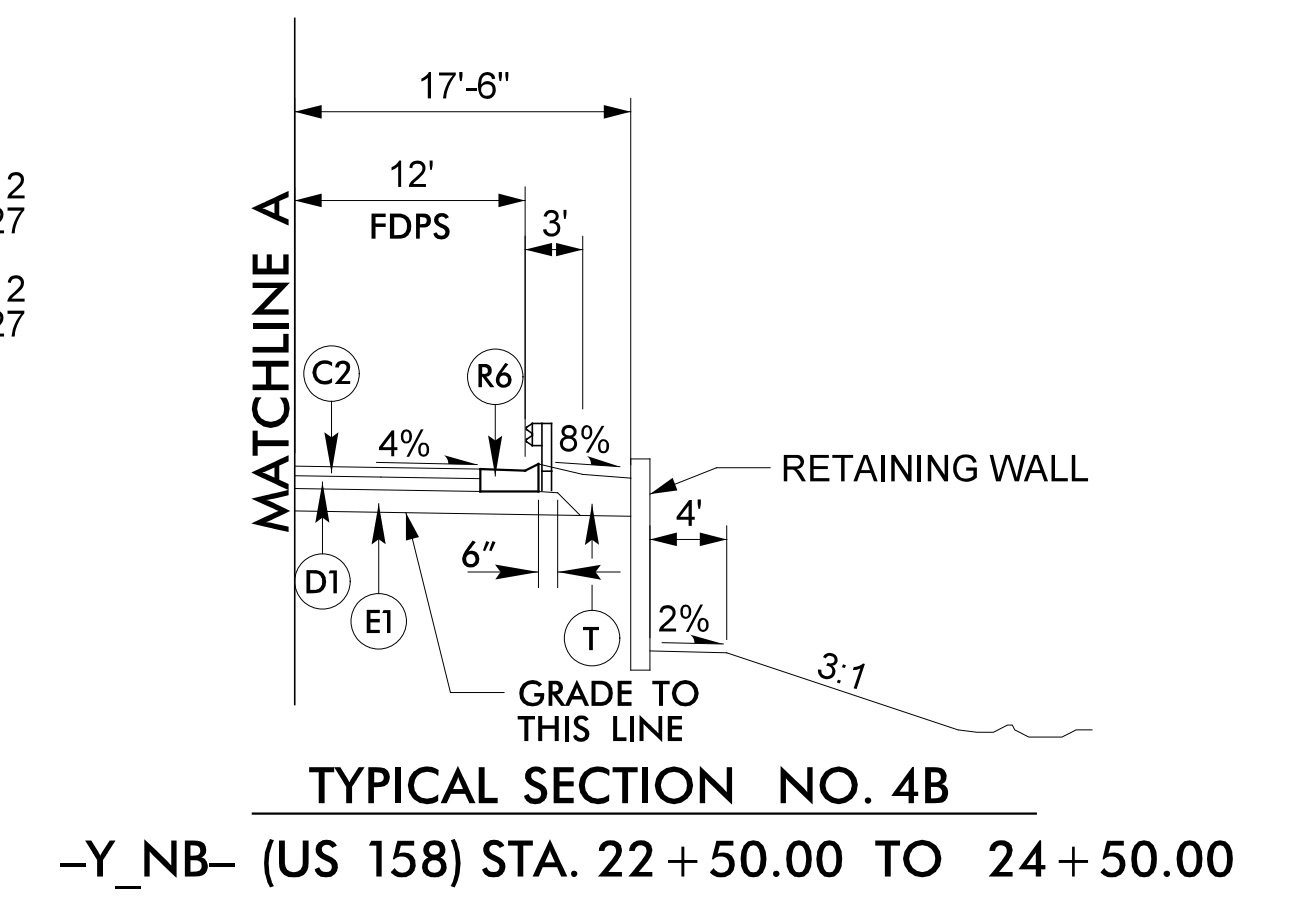
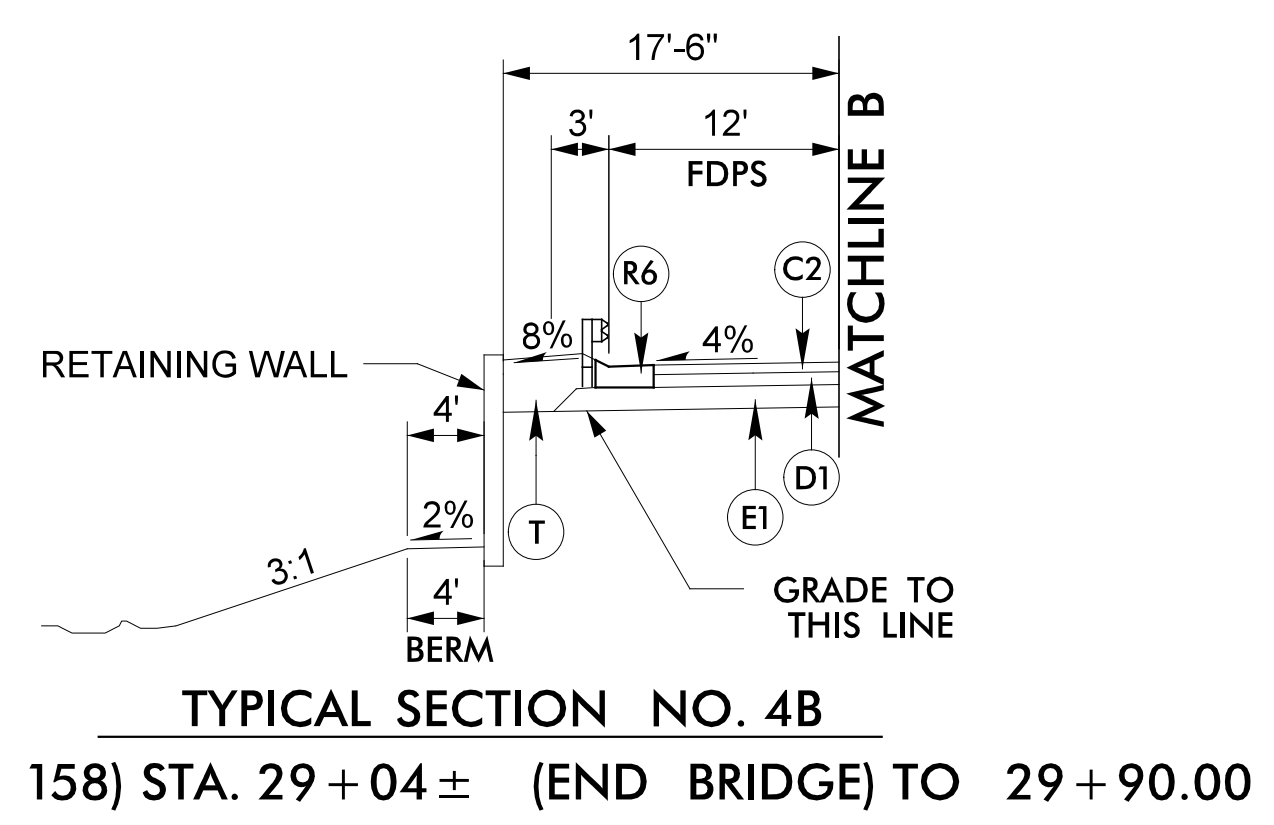
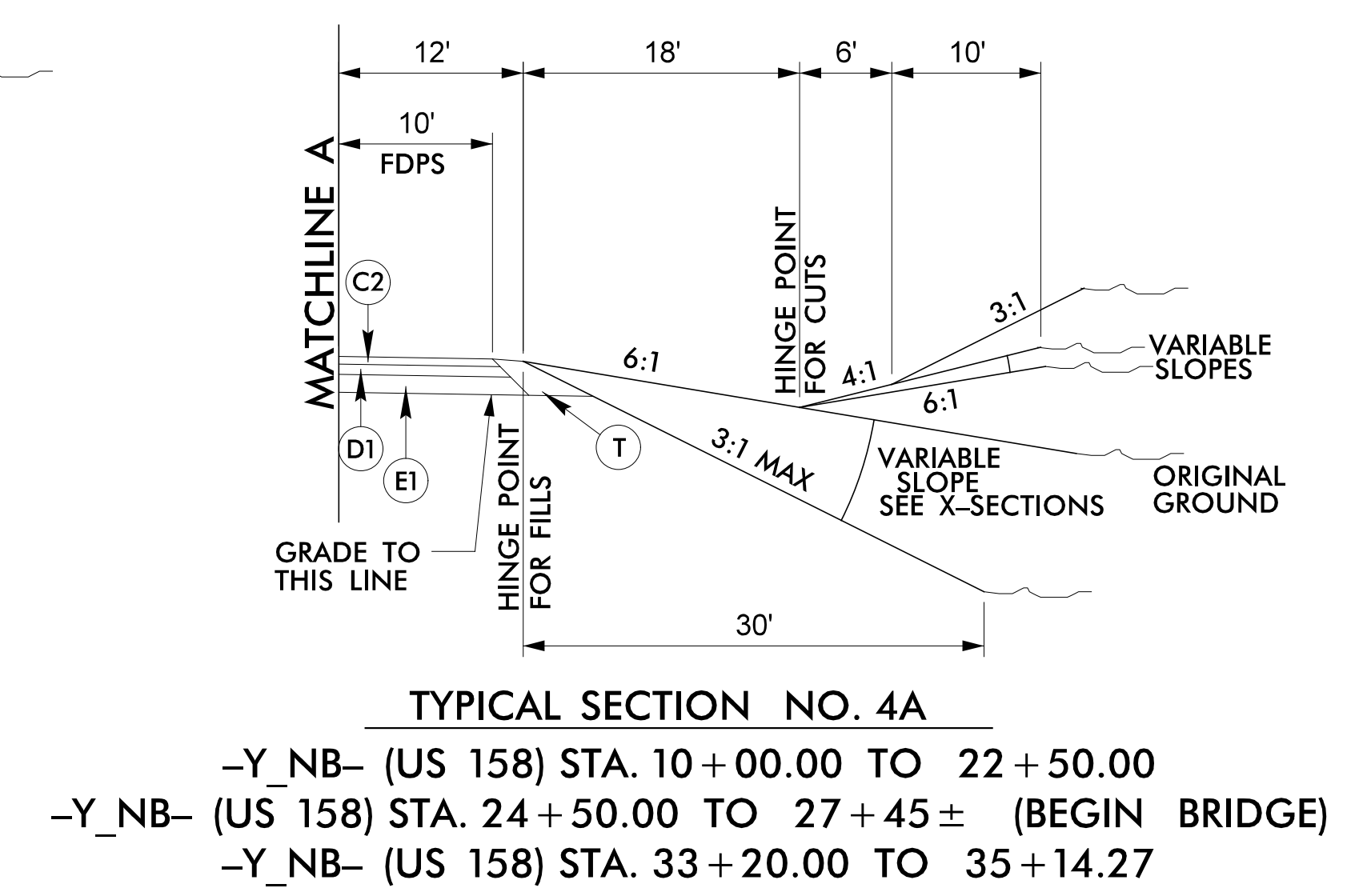
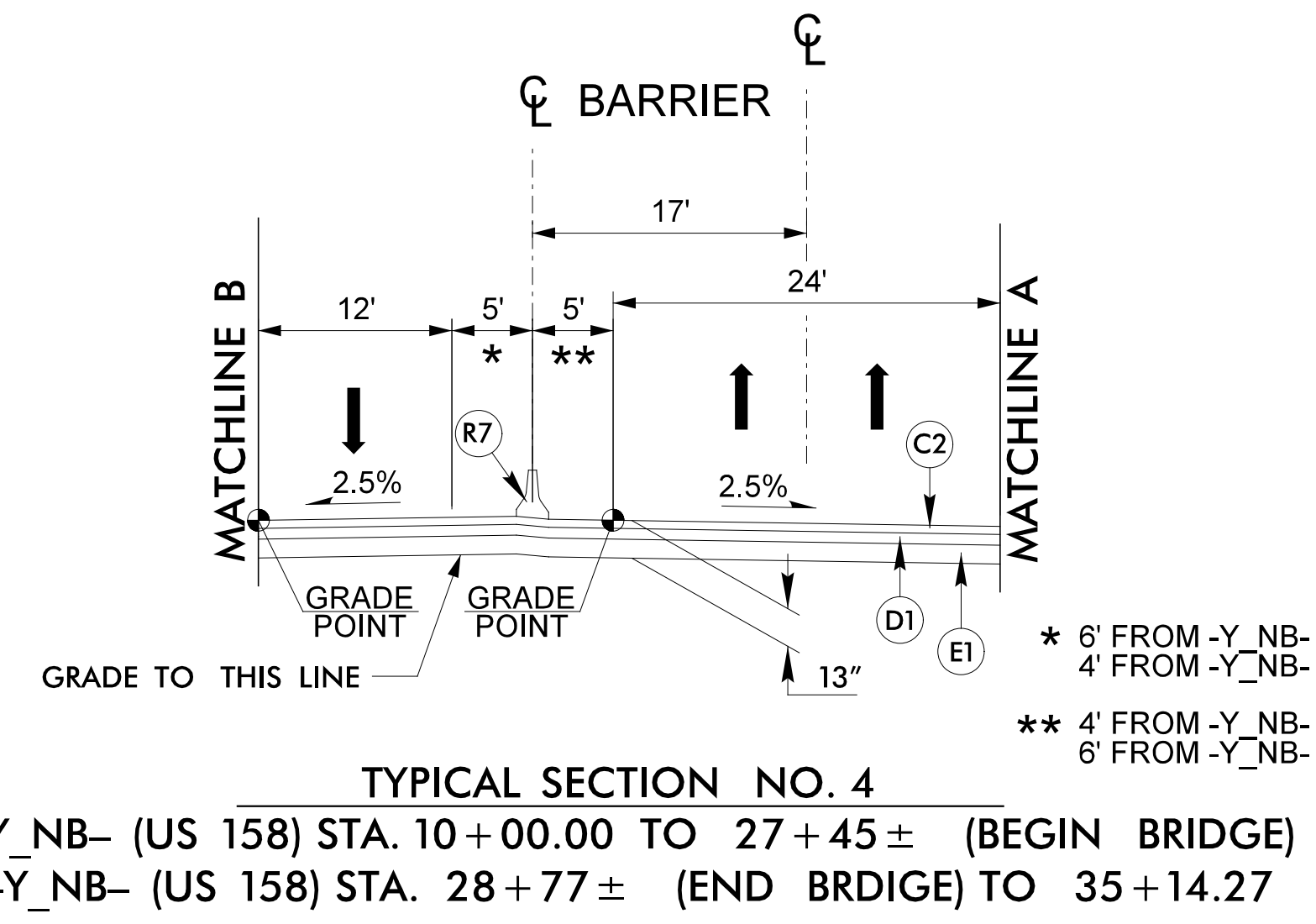
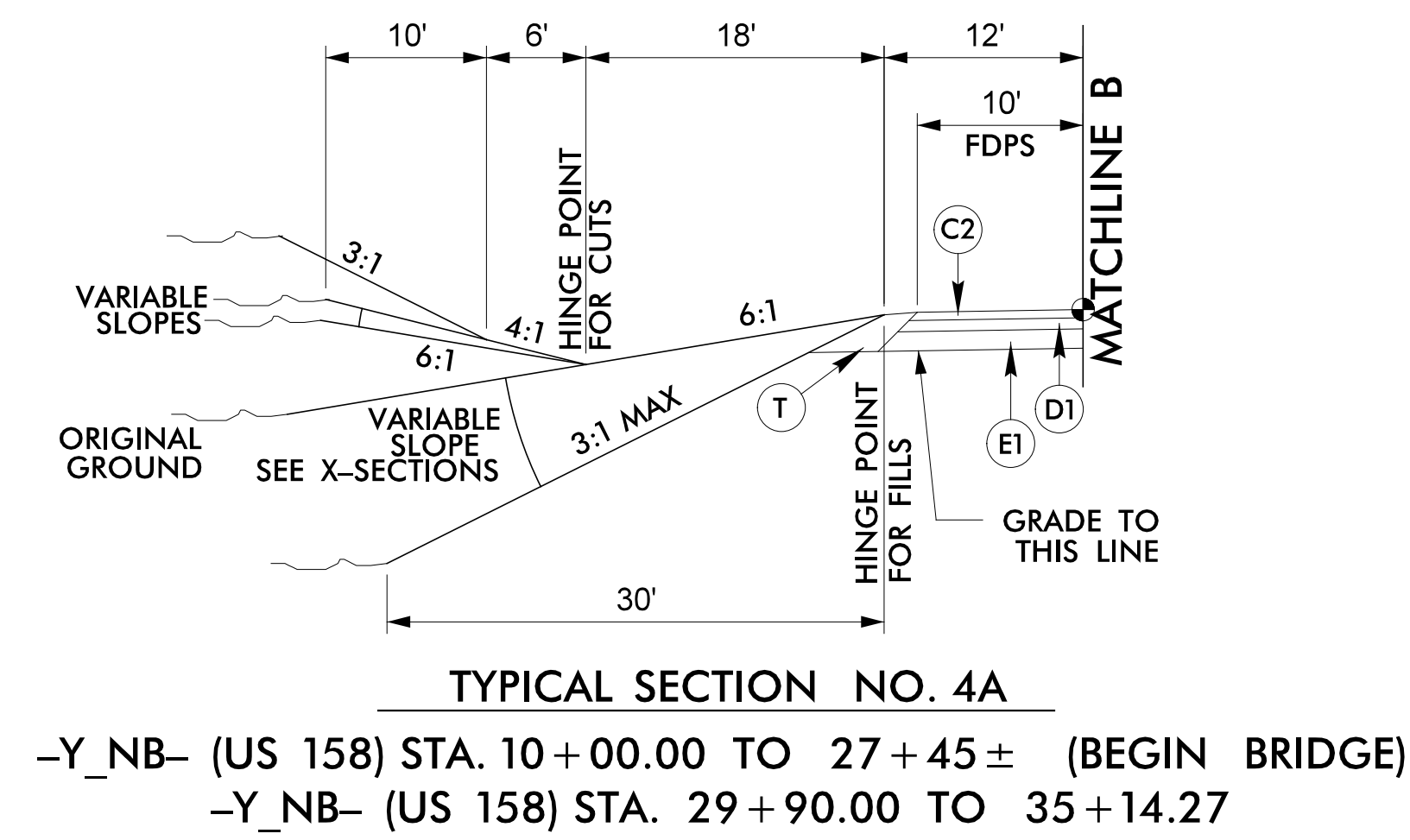
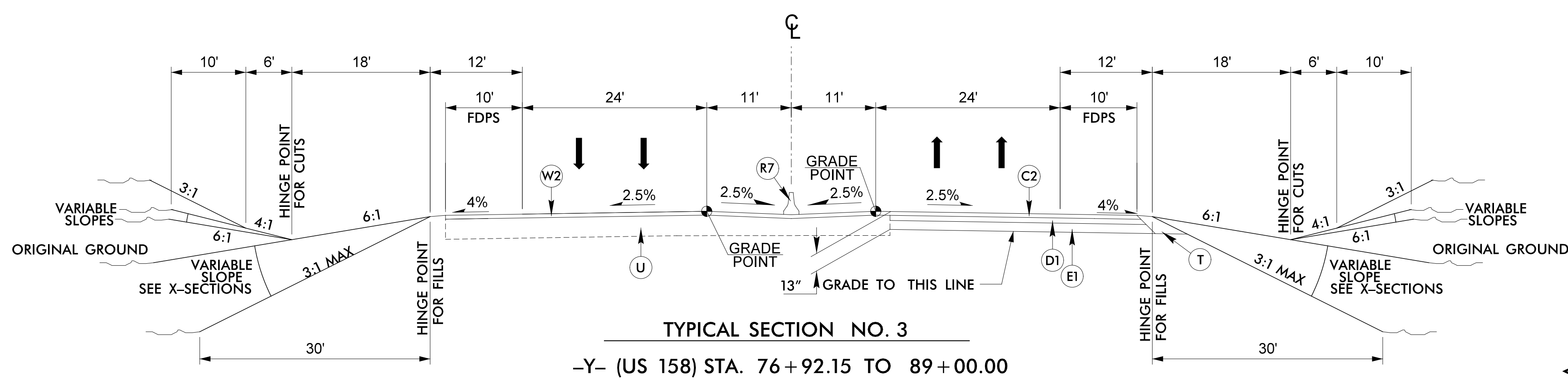
\* 6' FROM -Y- STA. 25+00.00 TO 33+39.23  
 \*\* 7' FROM -Y- STA. 25+00.00 TO 33+39.23



6/17/2024  
R2576-F01-TYP.dgn  
C. DICKLEY

6/2/99

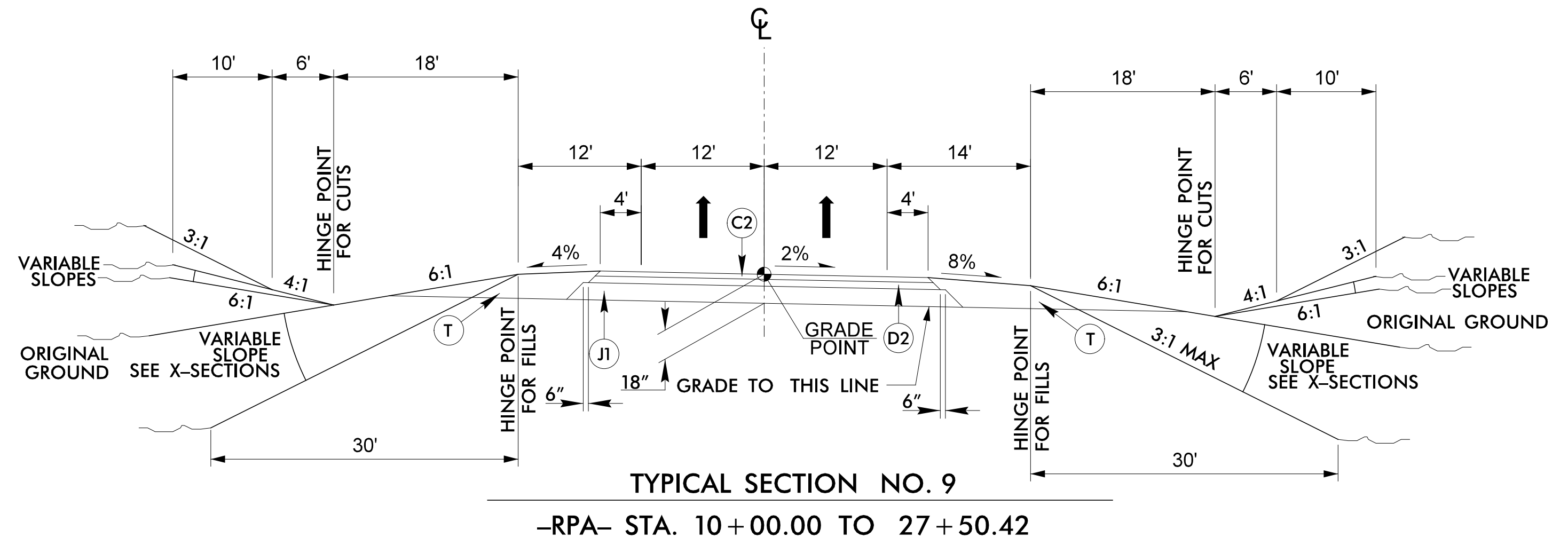
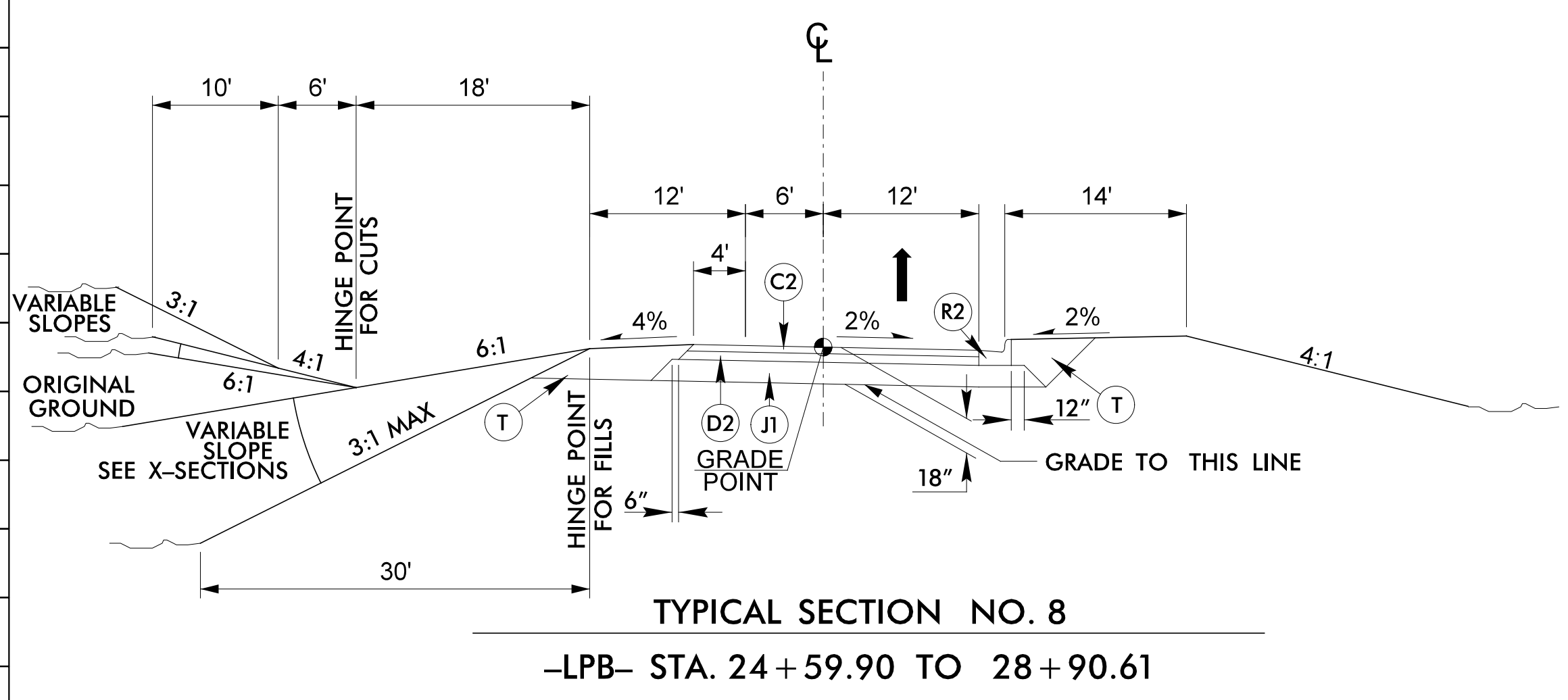
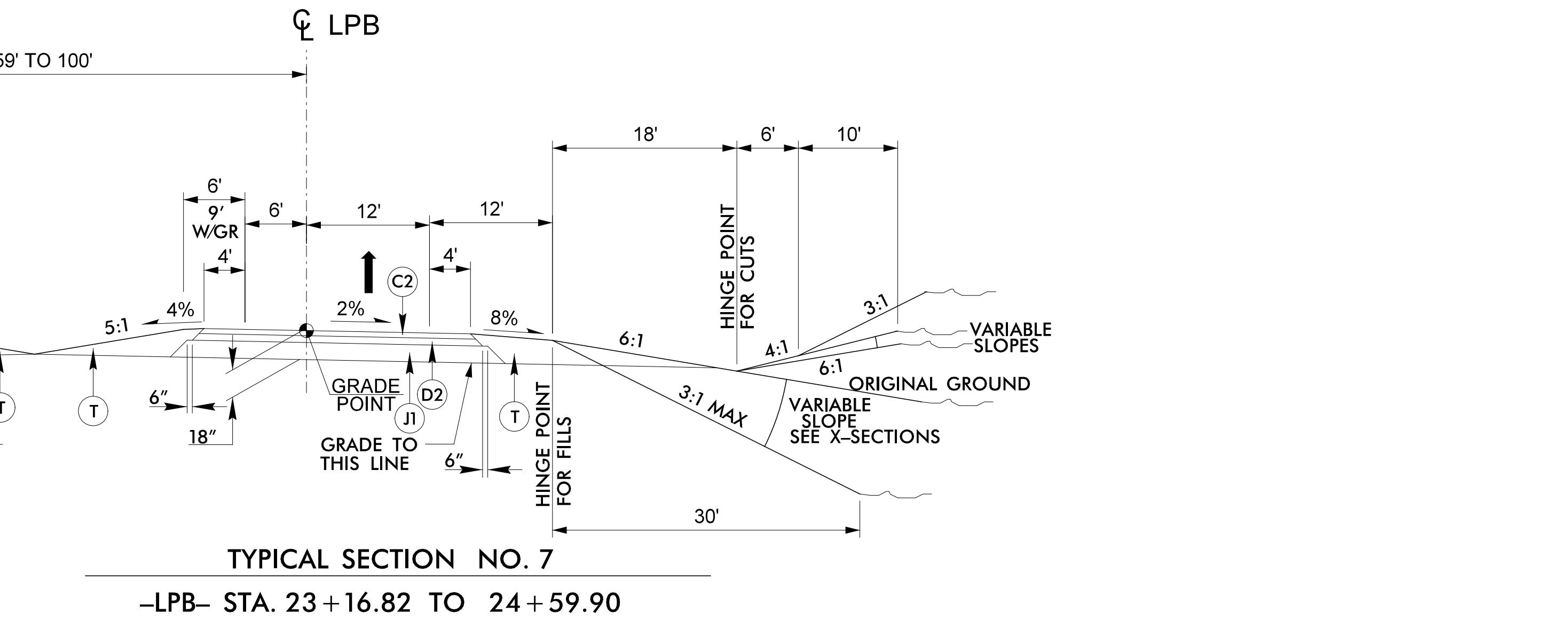
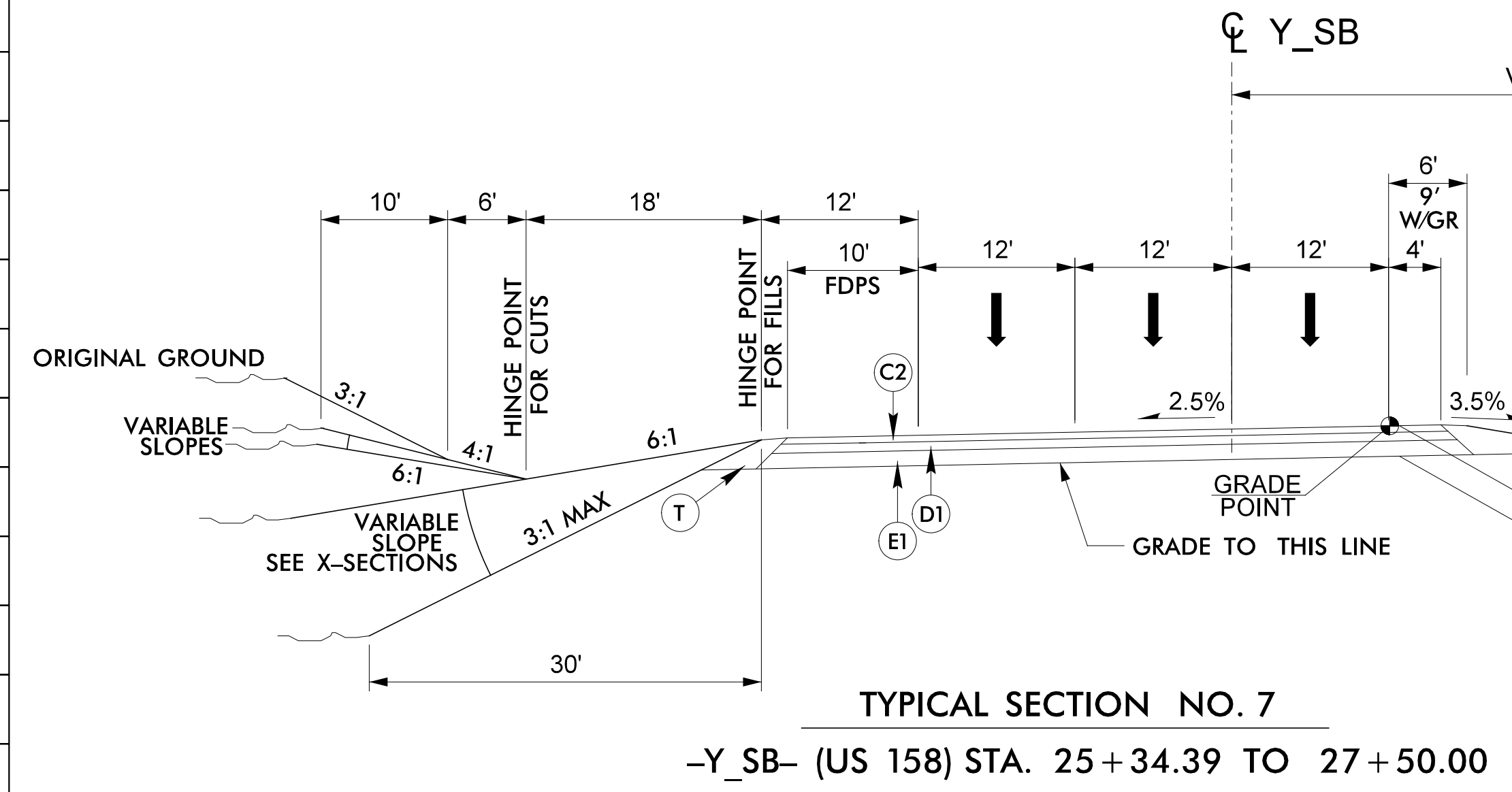
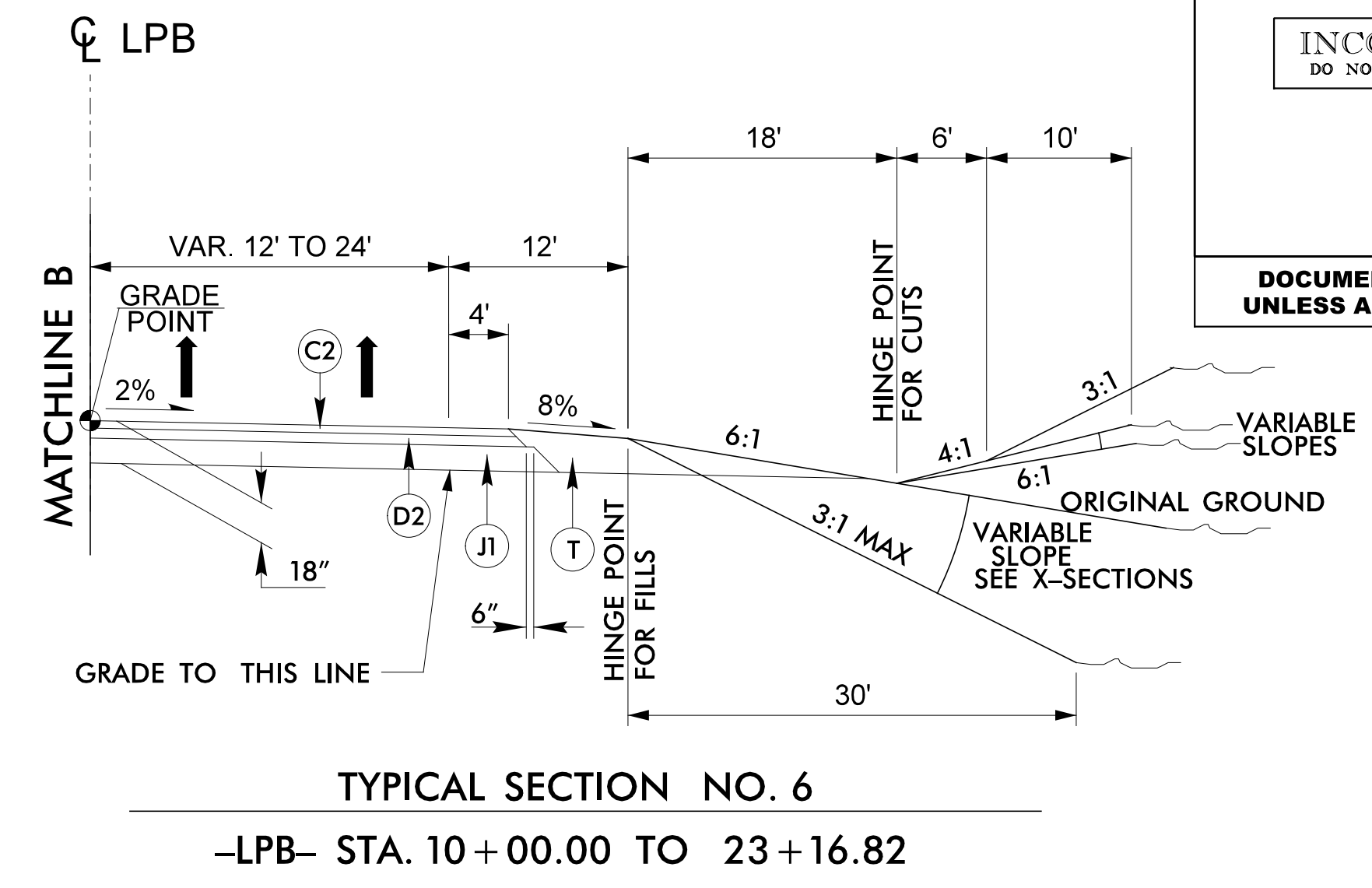
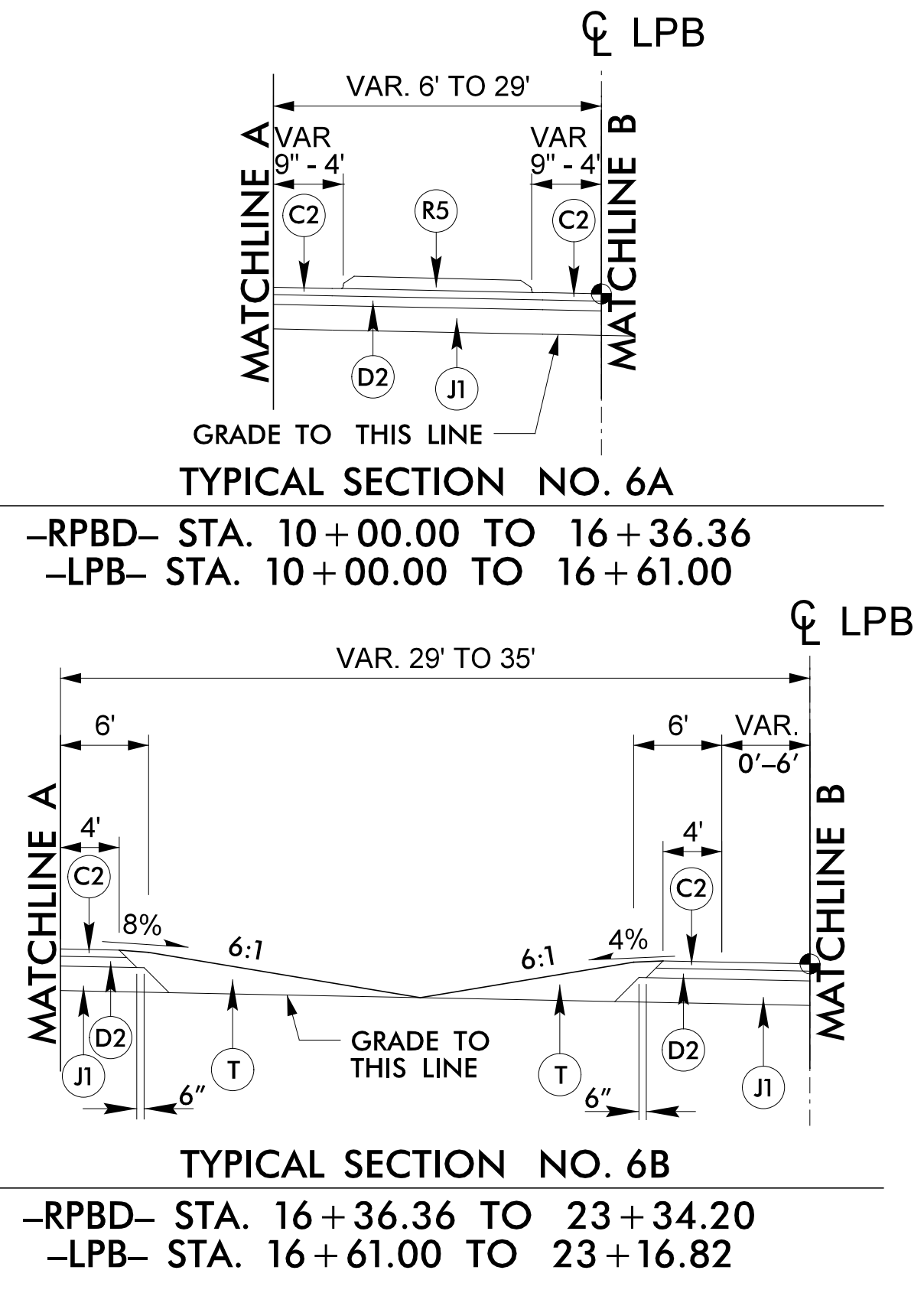
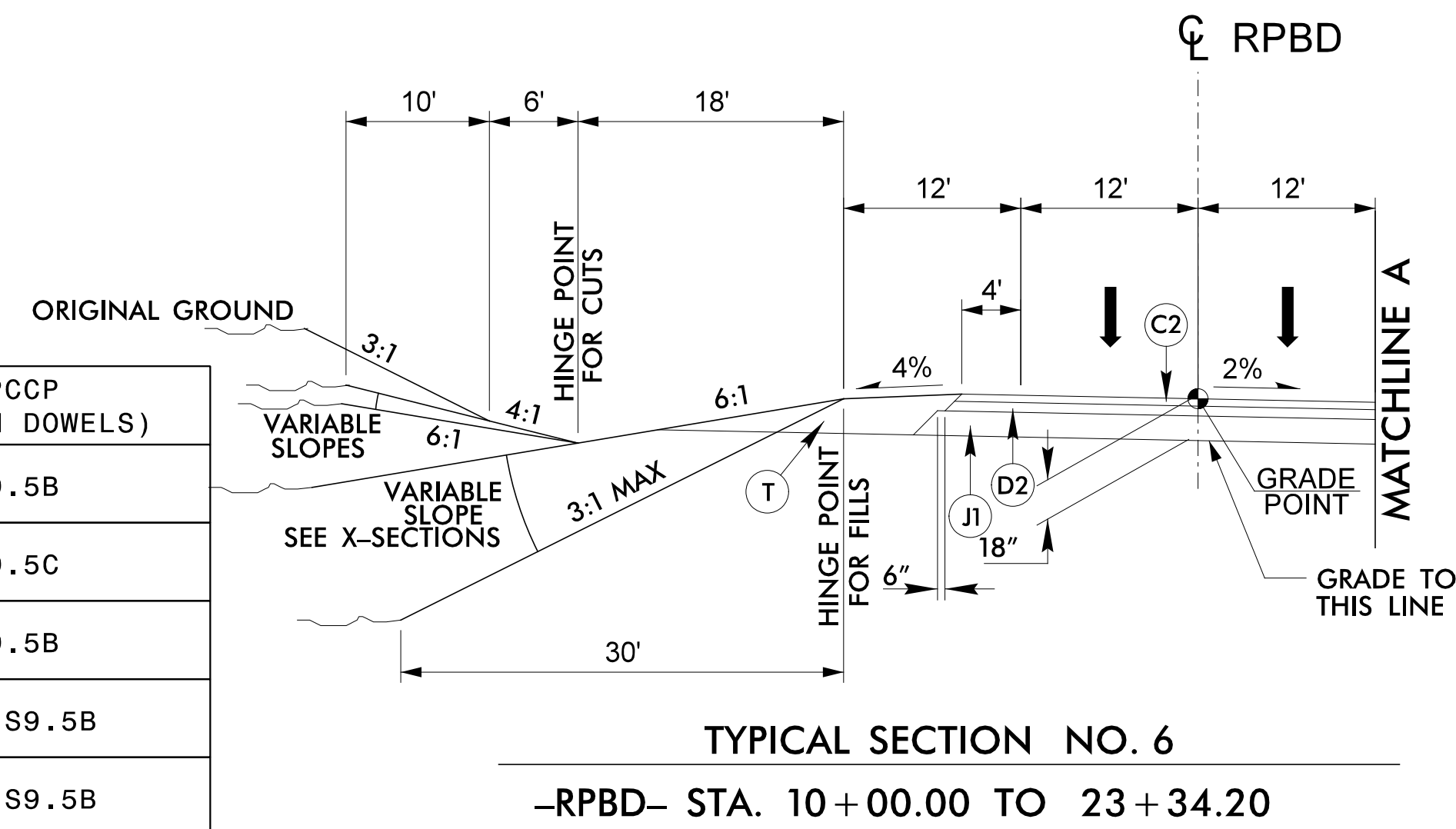
A	12" PCCP (WITH DOWELS)
C1	3" S9.5B
C2	3" S9.5C
C3	1" S9.5B
C4	1.5" S9.5B
C5	VAR. S9.5B
C6	VAR. S9.5C
D1	3" I19.5C
D2	3.5" I19.5C
D3	2.5" I19.5C
D4	VAR. I19.0C
E1	7" B25.0
E2	5" B25.0
E3	VAR. B25.0
J1	11.5" ABC
J2	4" ABC
J3	11" ABC
J4	5" ABC
R1	1'-6" CURB
R2	2'-6" CURB
R3	8"x18" CURB
R4	7" JOINTED CONC. PAV.
R5	5" MONOLITHIC CONC. ISLAND
R6	SBG
R7	MEDIAN CONC BARRIER
T	EARTH MATERIAL
U	EXISTING PAV.
V	MILLING
W1	WEDGING
W2	WEDGING
X	4" PADL
Y	8" PERVIOUS CONC. PAVEMENT
Z	6" #57 STONE



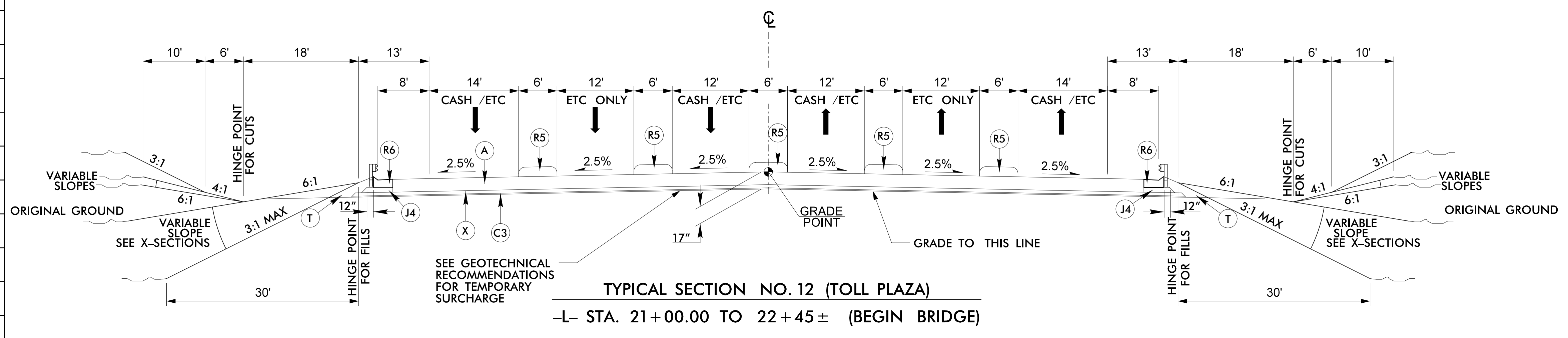
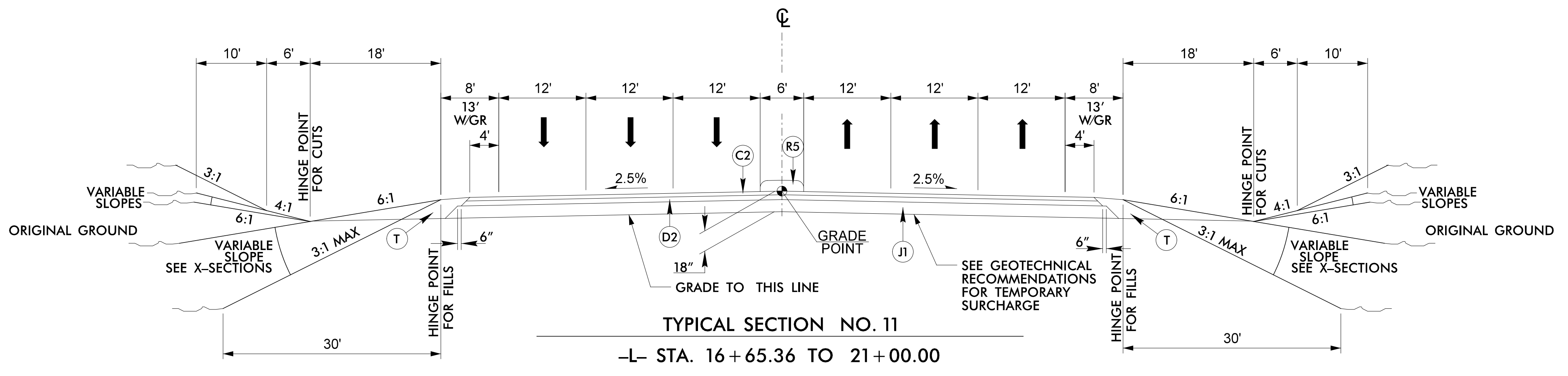
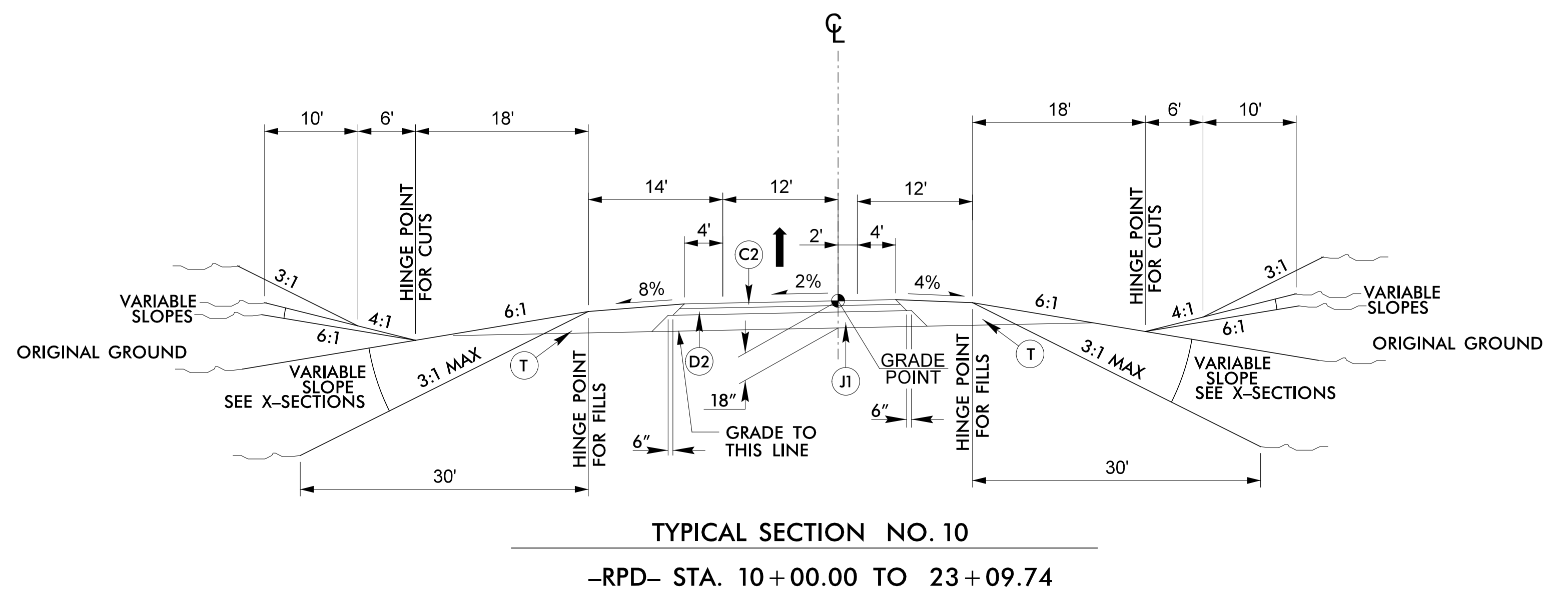
6/17/2024  
R03/16/F04= TYP.dgn  
C:\PROJECTS\2576\2A-2

6/17/2024 R02/6-F04-TYP.dgn

A	12" PCCP (WITH DOWELS)
C1	3" S9.5B
C2	3" S9.5C
C3	1" S9.5B
C4	1.5" S9.5B
C5	VAR. S9.5B
C6	VAR. S9.5C
D1	3" I19.5C
D2	3.5" I19.5C
D3	2.5" I19.5C
D4	VAR. I19.0C
E1	7" B25.0
E2	5" B25.0
E3	VAR. B25.0
J1	11.5" ABC
J2	4" ABC
J3	11" ABC
J4	5" ABC
R1	1'-6" CURB
R2	2'-6" CURB
R3	8"x18" CURB
R4	7" JOINTED CONC. PAV.
R5	5" MONOLITHIC CONC. ISLAND
R6	SBG
R7	MEDIAN CONC BARRIER
T	EARTH MATERIAL
U	EXISTING PAV.
V	MILLING
W1	WEDGING
W2	WEDGING
X	4" PADL
Y	8" PERVIOUS CONC. PAVEMENT
Z	6" #57 STONE

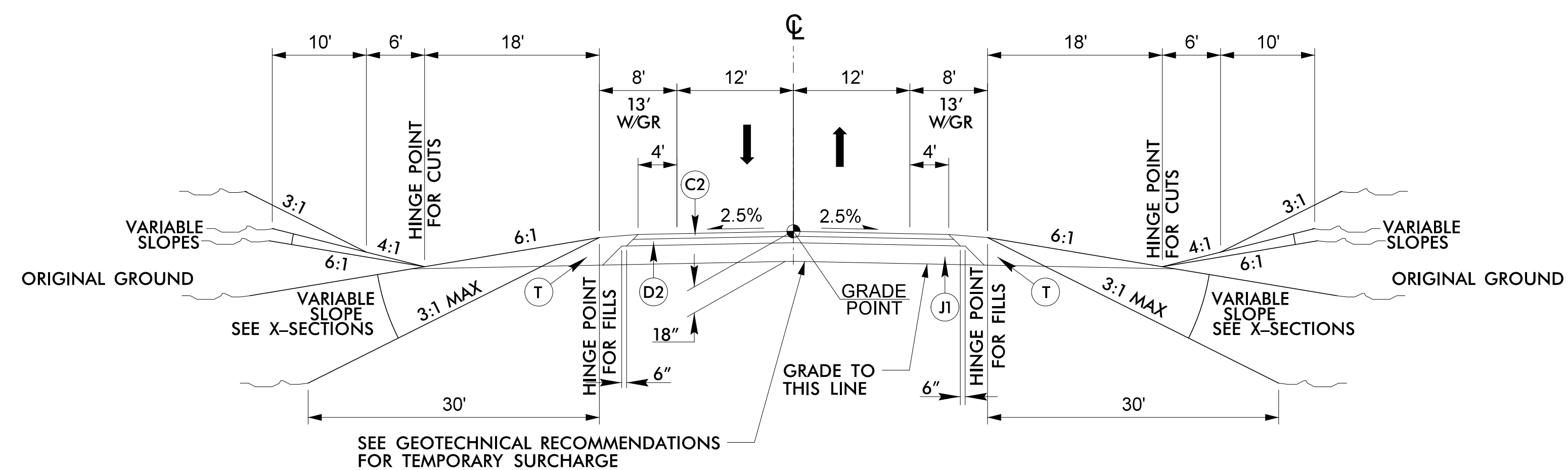


A	12" PCCP (WITH DOWELS)
C1	3" S9.5B
C2	3" S9.5C
C3	1" S9.5B
C4	1.5" S9.5B
C5	VAR. S9.5B
C6	VAR. S9.5C
D1	3" I19.5C
D2	3.5" I19.5C
D3	2.5" I19.5C
D4	VAR. I19.0C
E1	7" B25.0
E2	5" B25.0
E3	VAR. B25.0
J1	11.5" ABC
J2	4" ABC
J3	11" ABC
J4	5" ABC
R1	1'-6" CURB
R2	2'-6" CURB
R3	8"x18" CURB
R4	7" JOINTED CONC. PAV.
R5	5" MONOLITHIC CONC. ISLAND
R6	SBG
R7	MEDIAN CONC BARRIER
T	EARTH MATERIAL
U	EXISTING PAV.
V	MILLING
W1	WEDGING
W2	WEDGING
X	4" PADL
Y	8" PERVIOUS CONC. PAVEMENT
Z	6" #57 STONE

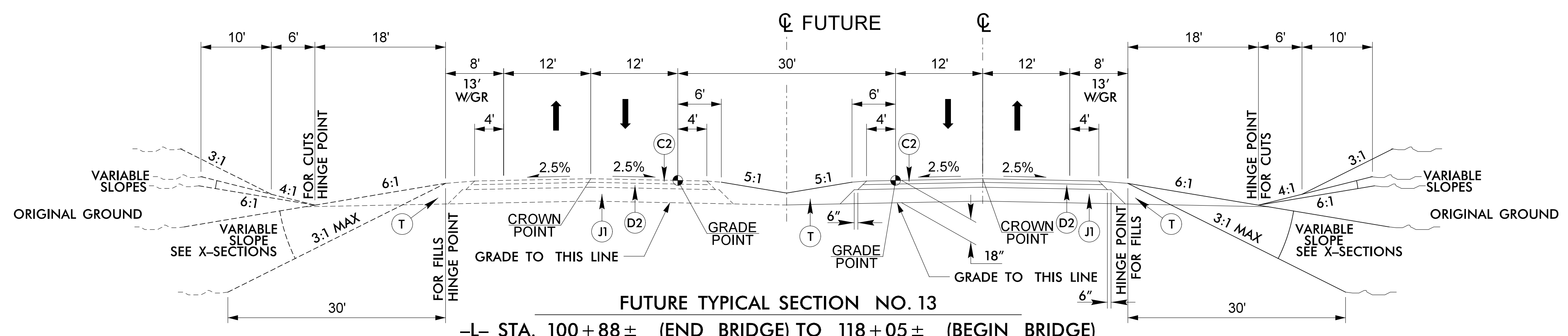


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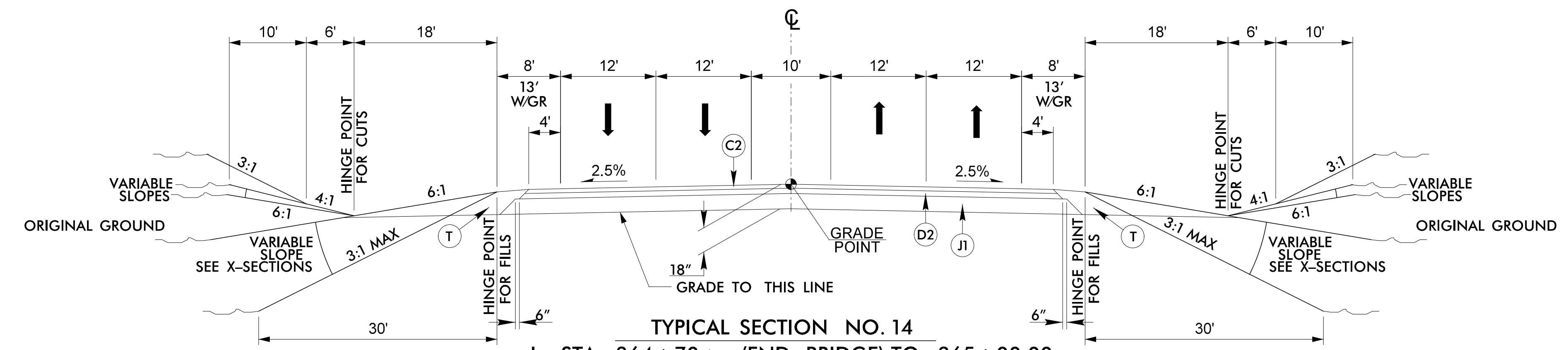
A	12" PCCP (WITH DOWELS)
C1	3" S9.5B
C2	3" S9.5C
C3	1" S9.5B
C4	1.5" S9.5B
C5	VAR. S9.5B
C6	VAR. S9.5C
D1	3" I19.5C
D2	3.5" I19.5C
D3	2.5" I19.5C
D4	VAR. I19.0C
E1	7" B25.0
E2	5" B25.0
E3	VAR. B25.0
J1	11.5" ABC
J2	4" ABC
J3	11" ABC
J4	5" ABC
R1	1'-6" CURB
R2	2'-6" CURB
R3	8"x18" CURB
R4	7" JOINTED CONC. PAV.
R5	5" MONOLITHIC CONC. ISLAND
R6	SBG
R7	MEDIAN CONC BARRIER
T	EARTH MATERIAL
U	EXISTING PAV.
V	MILLING
W1	WEDGING
W2	WEDGING
X	4" PADL
Y	8" PERVIOUS CONC. PAVEMENT
Z	6" #57 STONE



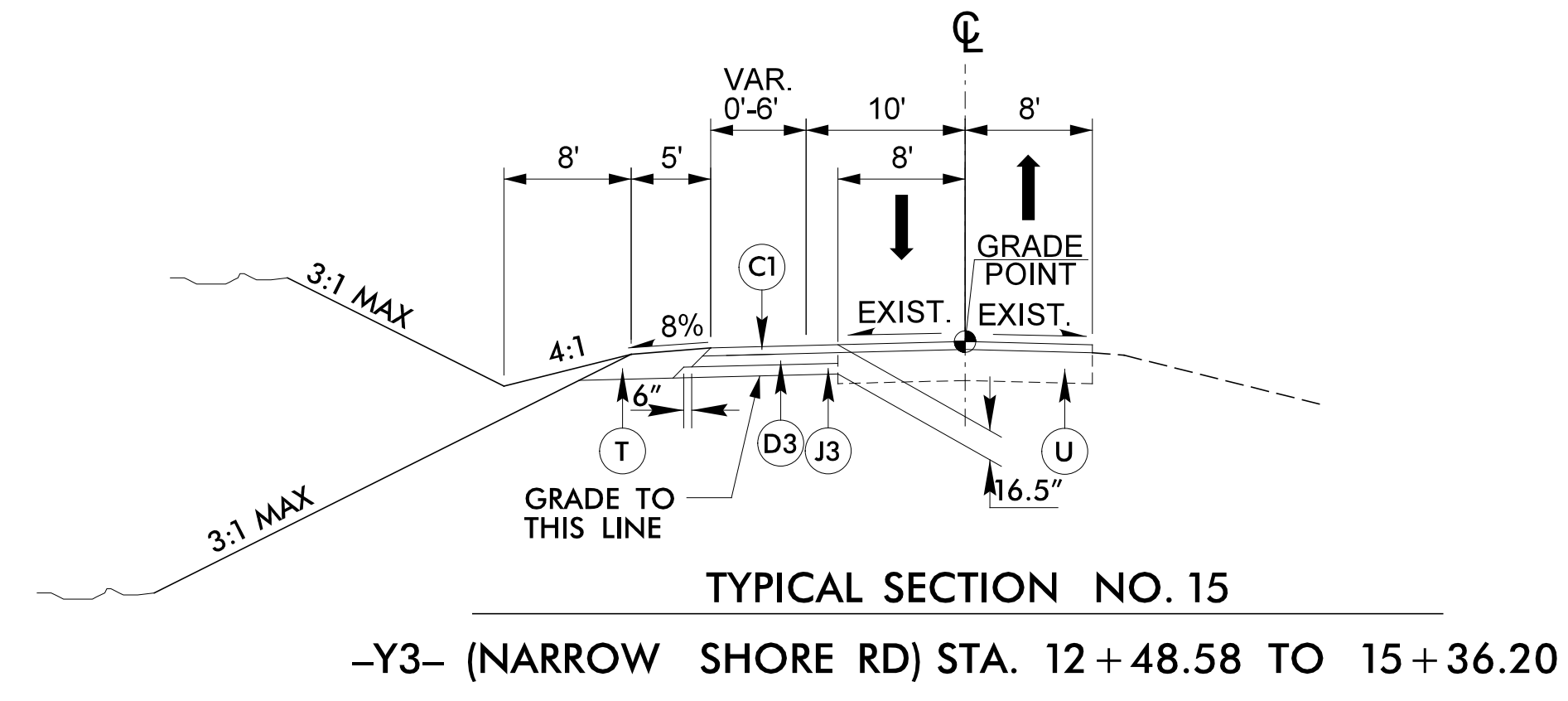
**TYPICAL SECTION NO. 13**  
-L- STA. 100+88± (END BRIDGE) TO 118+05± (BEGIN BRIDGE)



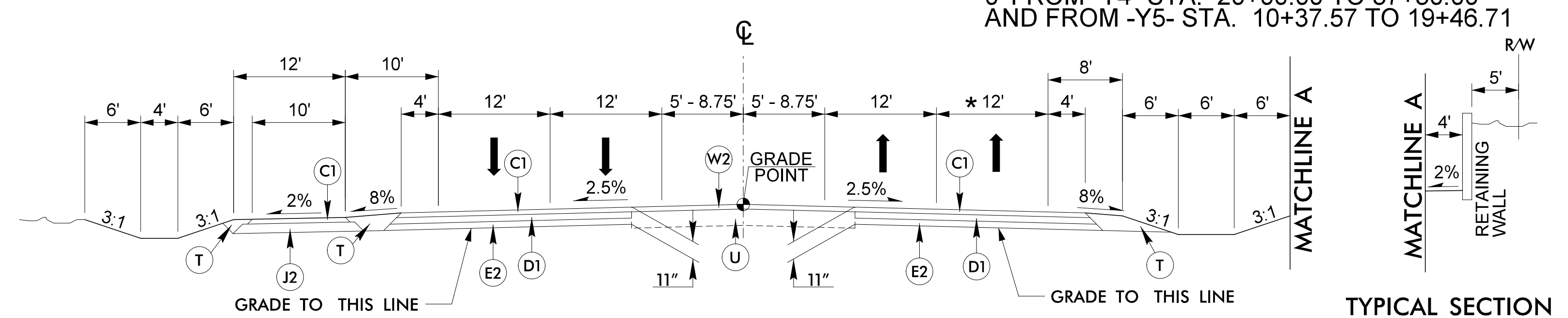
**FUTURE TYPICAL SECTION NO. 13**  
-L- STA. 100+88± (END BRIDGE) TO 118+05± (BEGIN BRIDGE)



**TYPICAL SECTION NO. 14**  
-L- STA. 364+70± (END BRIDGE) TO 365+00.00  
-L2- STA. 365+00.00 TO 369+18.83



**TYPICAL SECTION NO. 15**  
-Y3- (NARROW SHORE RD) STA. 12+48.58 TO 15+36.20



**TYPICAL SECTION NO. 16**  
-Y4- (NC 12) STA. 20+00.00 TO 44+86.83  
-Y5- (NC 12) STA. 10+37.57 TO 19+46.71

\* 0' FROM -Y4- STA. 20+00.00 TO 37+50.00  
AND FROM -Y5- STA. 10+37.57 TO 19+46.71

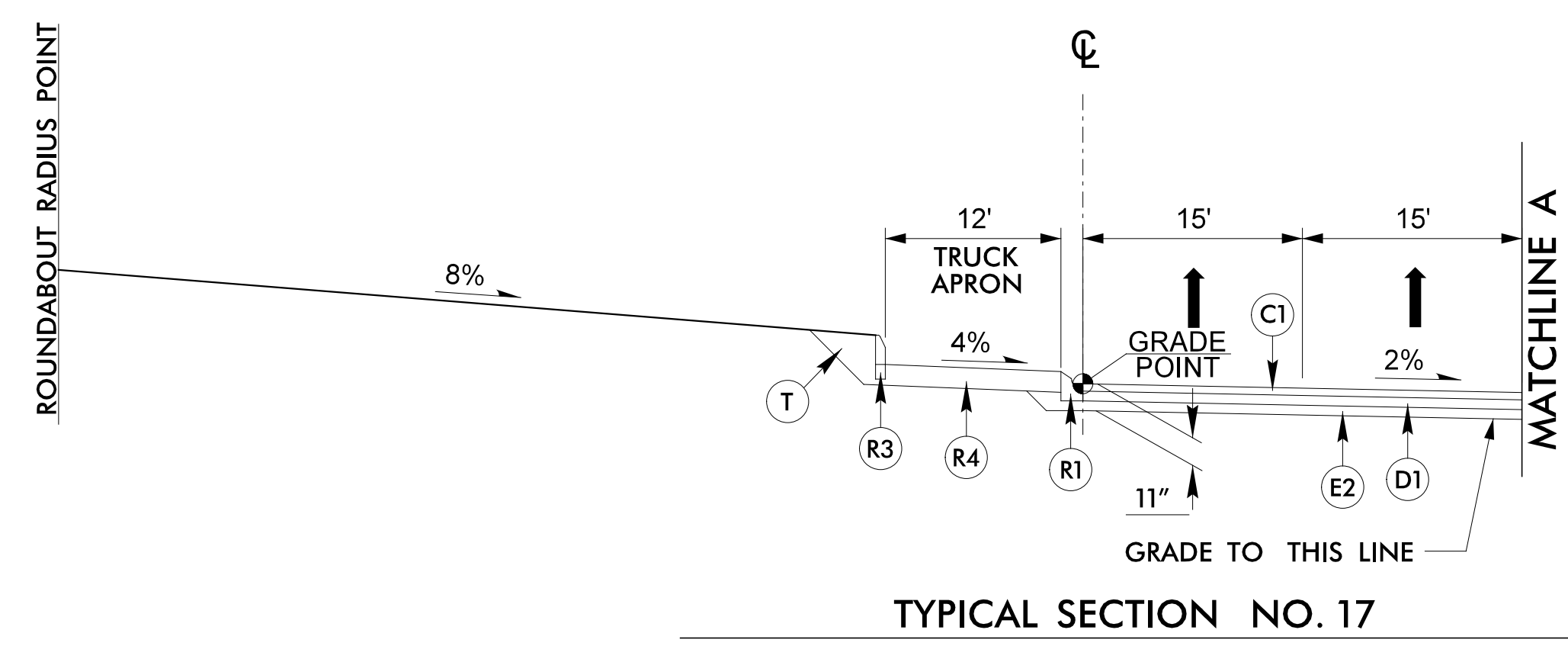
**TYPICAL SECTION NO. 16A**  
-Y4- (NC 12)  
STA. 39+80.00  
TO 40+60.00



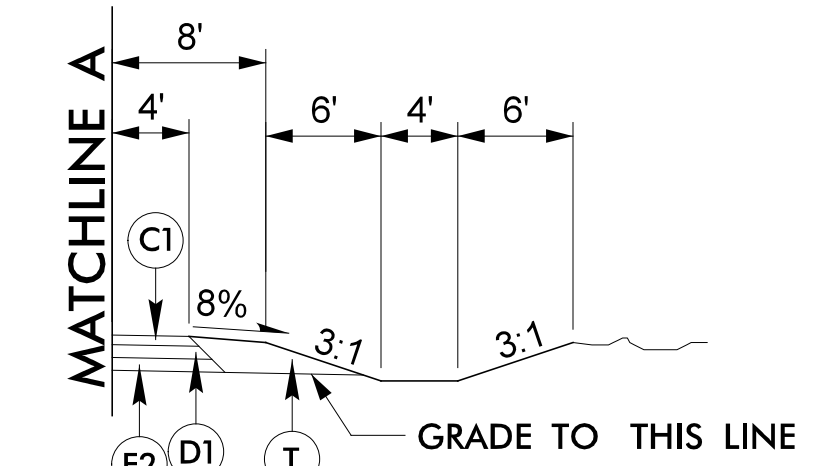
6/2/99

PROJECT REFERENCE NO. R-2576	SHEET NO. 2A-6
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>DOCUMENT NOT CONSIDERED FINAL</b> <b>UNLESS ALL SIGNATURES COMPLETED</b>	

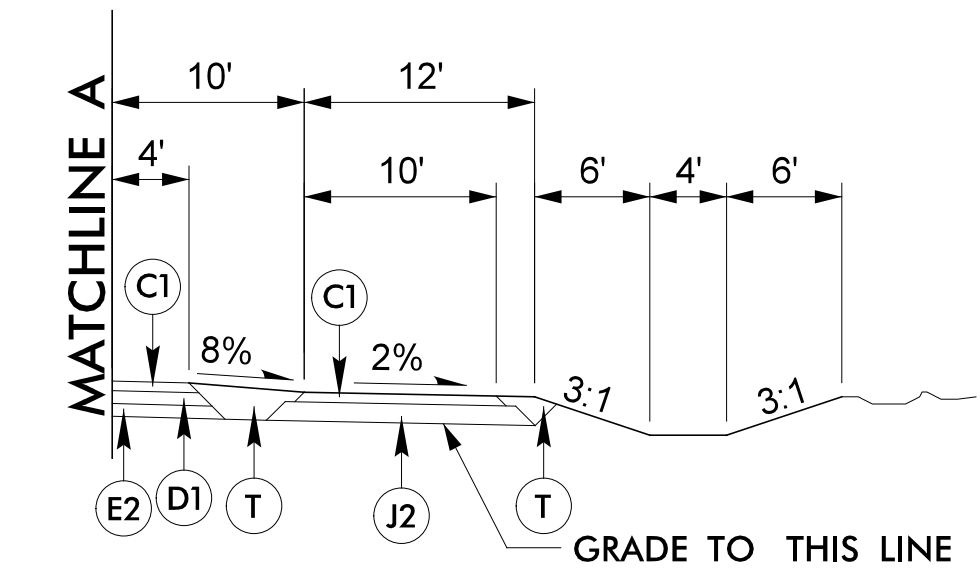
A	12" PCCP (WITH DOWELS)
C1	3" S9.5B
C2	3" S9.5C
C3	1" S9.5B
C4	1.5" S9.5B
C5	VAR. S9.5B
C6	VAR. S9.5C
D1	3" I19.5C
D2	3.5" I19.5C
D3	2.5" I19.5C
D4	VAR. I19.0C
E1	7" B25.0
E2	5" B25.0
E3	VAR. B25.0
J1	11.5" ABC
J2	4" ABC
J3	11" ABC
J4	5" ABC
R1	1'-6" CURB
R2	2'-6" CURB
R3	8"x18" CURB
R4	7" JOINTED CONC. PAV.
R5	5" MONOLITHIC CONC. ISLAND
R6	SBG
R7	MEDIAN CONC BARRIER
T	EARTH MATERIAL
U	EXISTING PAV.
V	MILLING
W1	WEDGING
W2	WEDGING
X	4" PADL
Y	8" PERVIOUS CONC. PAVEMENT
Z	6" #57 STONE



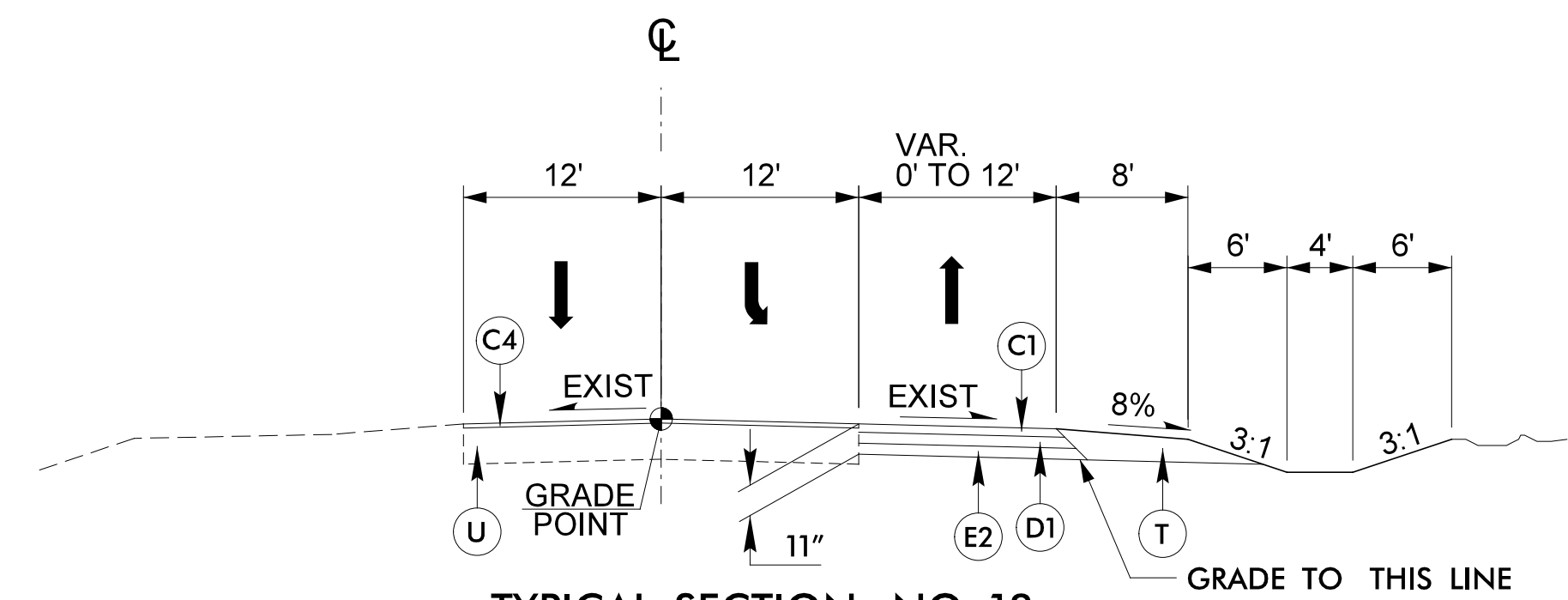
**TYPICAL SECTION NO. 17**  
 -Y5R- (ROUNDAABOUT) STA. 10+00.00 TO 14+39.82



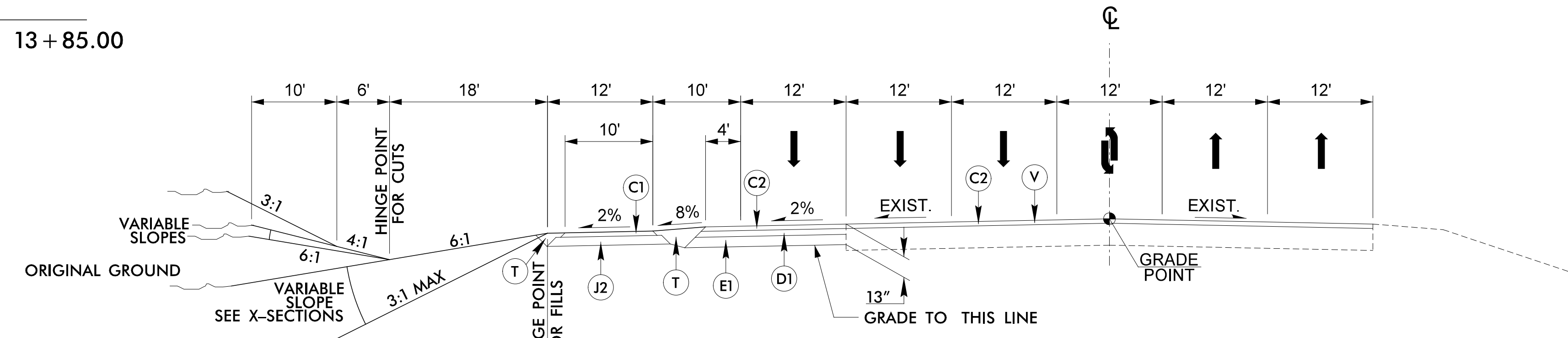
**TYPICAL SECTION NO. 17A**  
 -Y5R- STA. 11+12.25 TO 13+20.32



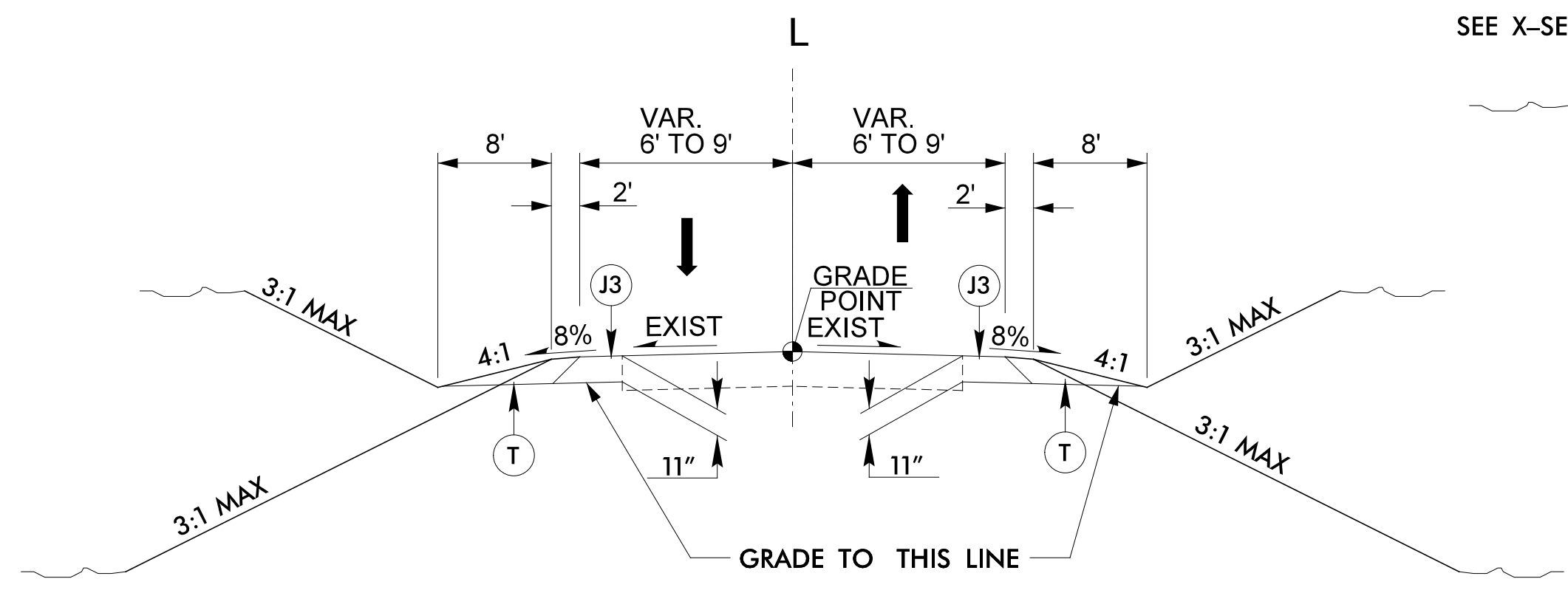
**TYPICAL SECTION NO. 17B**  
 -Y5R- STA. 10+00.00 TO 11+12.25  
 -Y5R- STA. 13+20.32 TO 14+39.82



**TYPICAL SECTION NO. 18**  
 -Y6- (ALBACORE RD) STA. 10+15.06 TO 13+85.00



**TYPICAL SECTION NO. 19**  
 -Y7- (US 158) STA. 43+00.00 TO 62+21.80

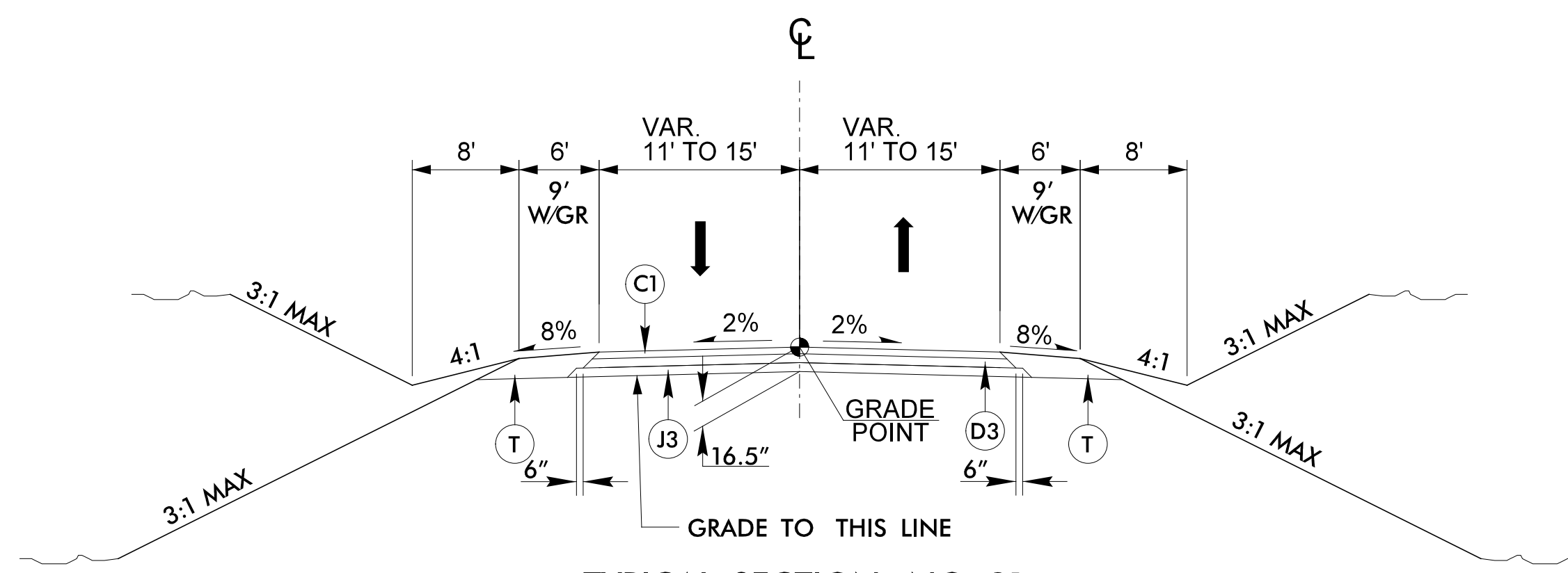


**TYPICAL SECTION NO. 20**  
 -Y1B- (YOUNG RD) STA. 10+20.00 TO 11+15.00

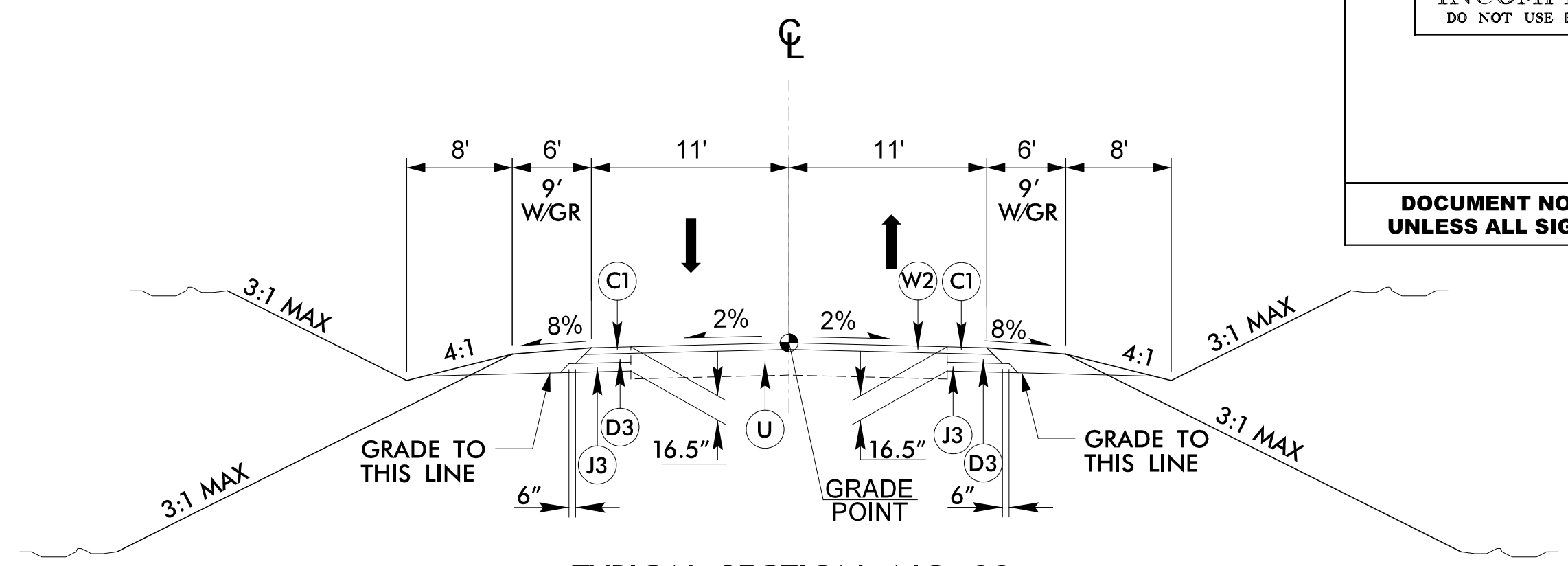
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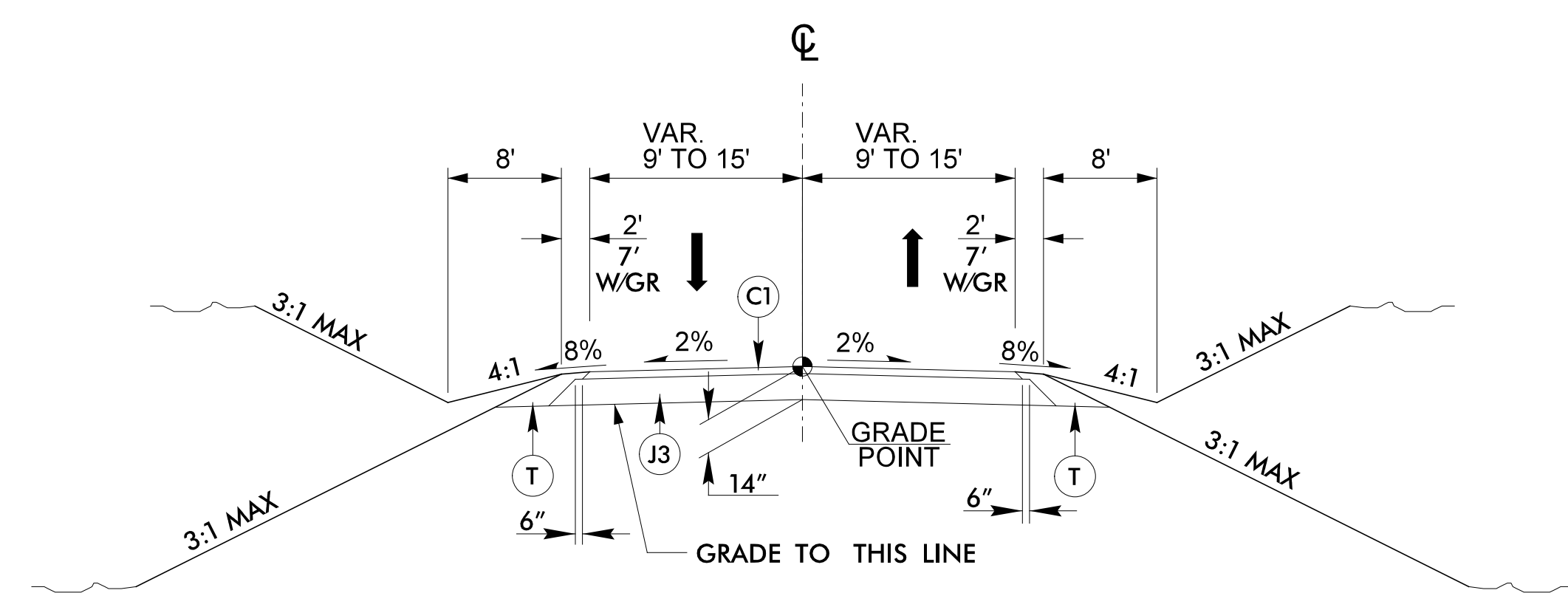
A	12" PCCP (WITH DOWELS)
C1	3" S9.5B
C2	3" S9.5C
C3	1" S9.5B
C4	1.5" S9.5B
C5	VAR. S9.5B
C6	VAR. S9.5C
D1	3" I19.5C
D2	3.5" I19.5C
D3	2.5" I19.5C
D4	VAR. I19.0C
E1	7" B25.0
E2	5" B25.0
E3	VAR. B25.0
J1	11.5" ABC
J2	4" ABC
J3	11" ABC
J4	5" ABC
R1	1'-6" CURB
R2	2'-6" CURB
R3	8"x18" CURB
R4	7" JOINTED CONC. PAV.
R5	5" MONOLITHIC CONC. ISLAND
R6	SBG
R7	MEDIAN CONC. BARRIER
T	EARTH MATERIAL
U	EXISTING PAV.
V	MILLING
W1	WEDGING
W2	WEDGING
X	4" PADL
Y	8" PERVIOUS CONC. PAVEMENT
Z	6" #57 STONE



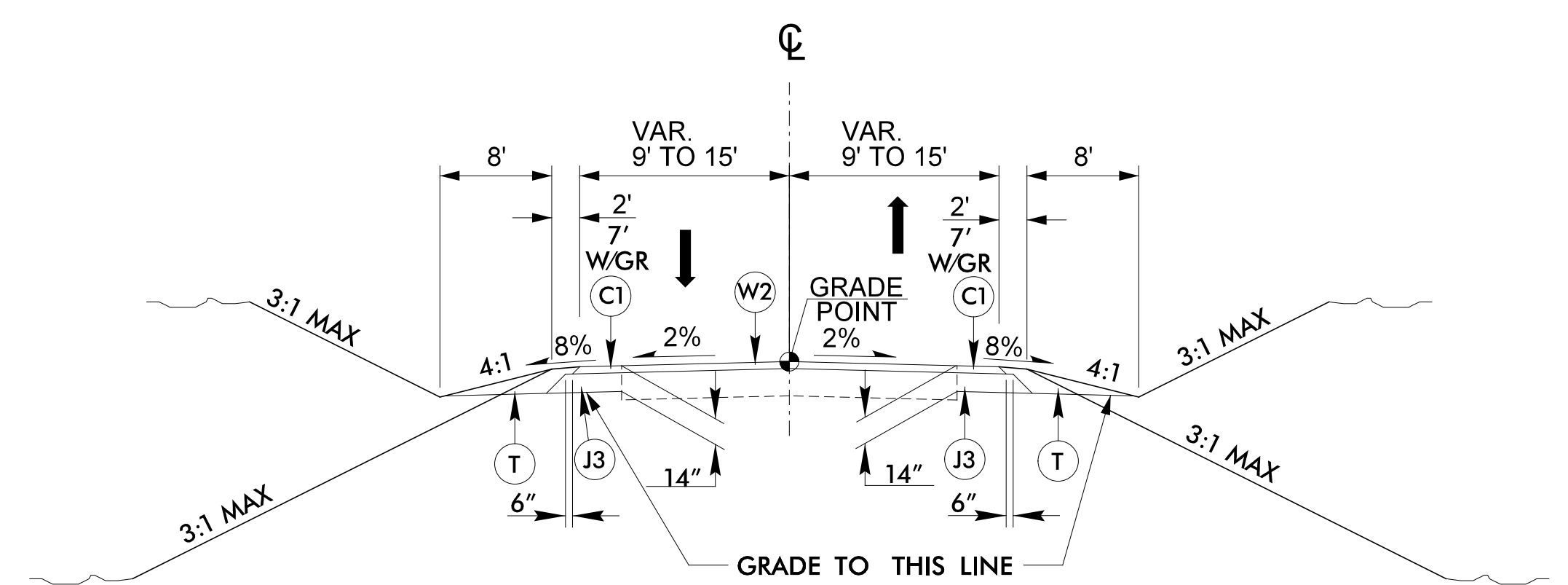
**TYPICAL SECTION NO. 21**  
 -Y2- (AYDLETT RD) STA. 10+35.00 TO 28+08.04



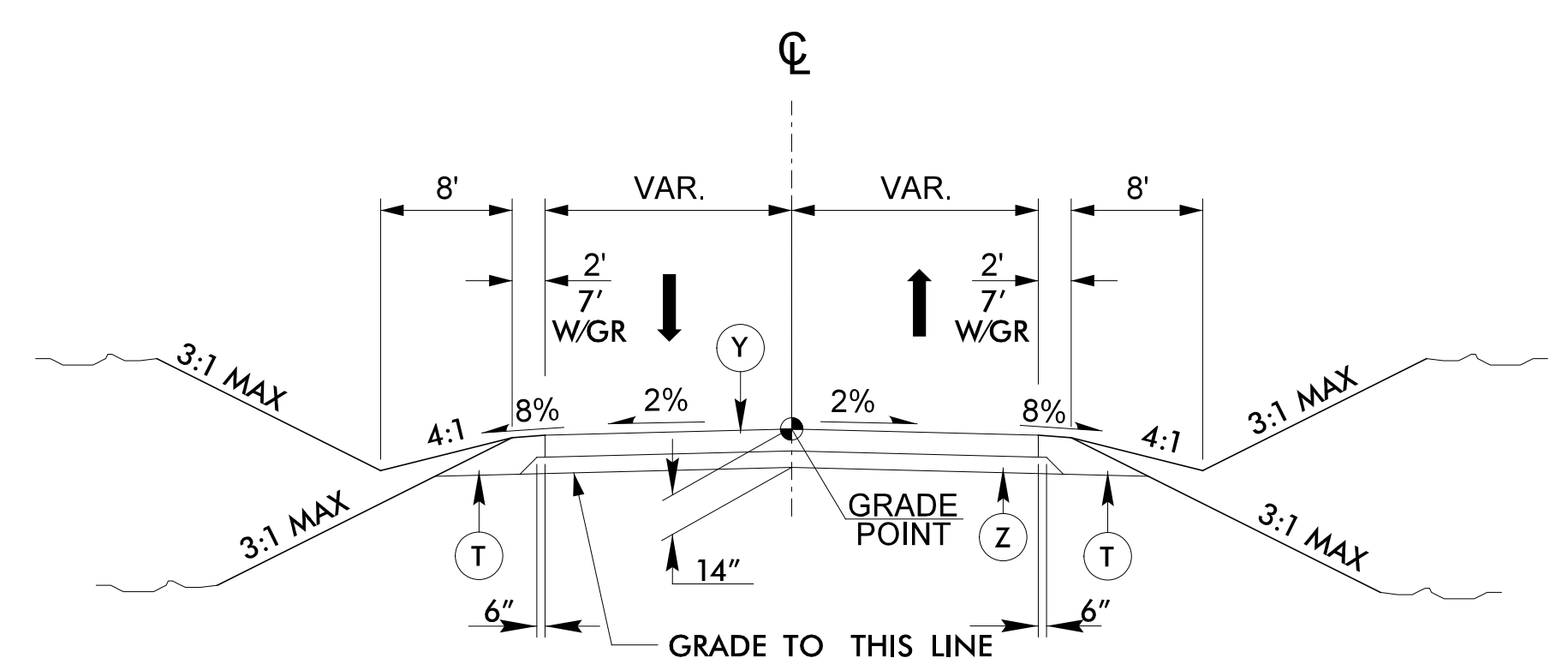
**TYPICAL SECTION NO. 22**  
 -Y2- (AYDLETT RD) STA. 28+08.04 TO 31+75.00



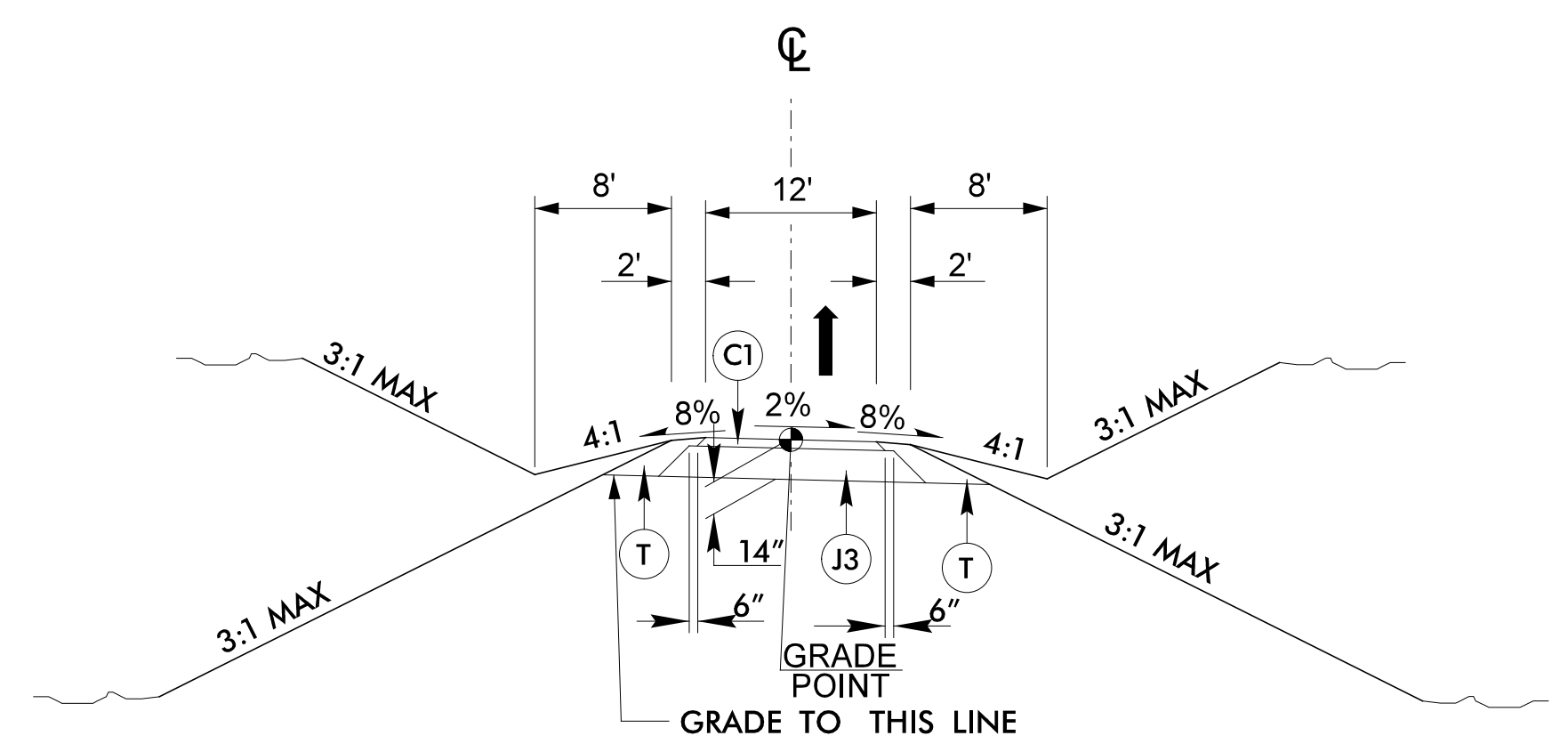
**TYPICAL SECTION NO. 23**  
 -Y1A- STA. 10+06.00 TO 25+27.92  
 -Y2A- STA. 10+11.02 TO 27+16.90  
 -Y3B- STA. 10+10.00 TO 12+81.74  
 -Y4C- STA. 10+32.75 TO 11+71.09



**TYPICAL SECTION NO. 24**  
 -Y1- (WATERLILLY RD) STA. 10+35.00 TO 13+50.00  
 -Y2B- (AYDLETT RD) STA. 11+00.00 TO 16+56.18  
 -Y4A- (SOUTH HARBOR VIEW) STA. 10+00.00 TO 11+87.73  
 -Y4A- (NORTH HARBOR VIEW) STA. 12+41.25 TO 13+50.00  
 -Y4B- (OCEAN FOREST CT) STA. 10+80.00 TO 11+72.61



**TYPICAL SECTION NO. 25**  
 PARKING LOT PORTION OF -Y2A- STA. 17+26.72 TO 19+74.16 (LT)  
 -Y2A- STA. 27+16.90 TO 29+37.64



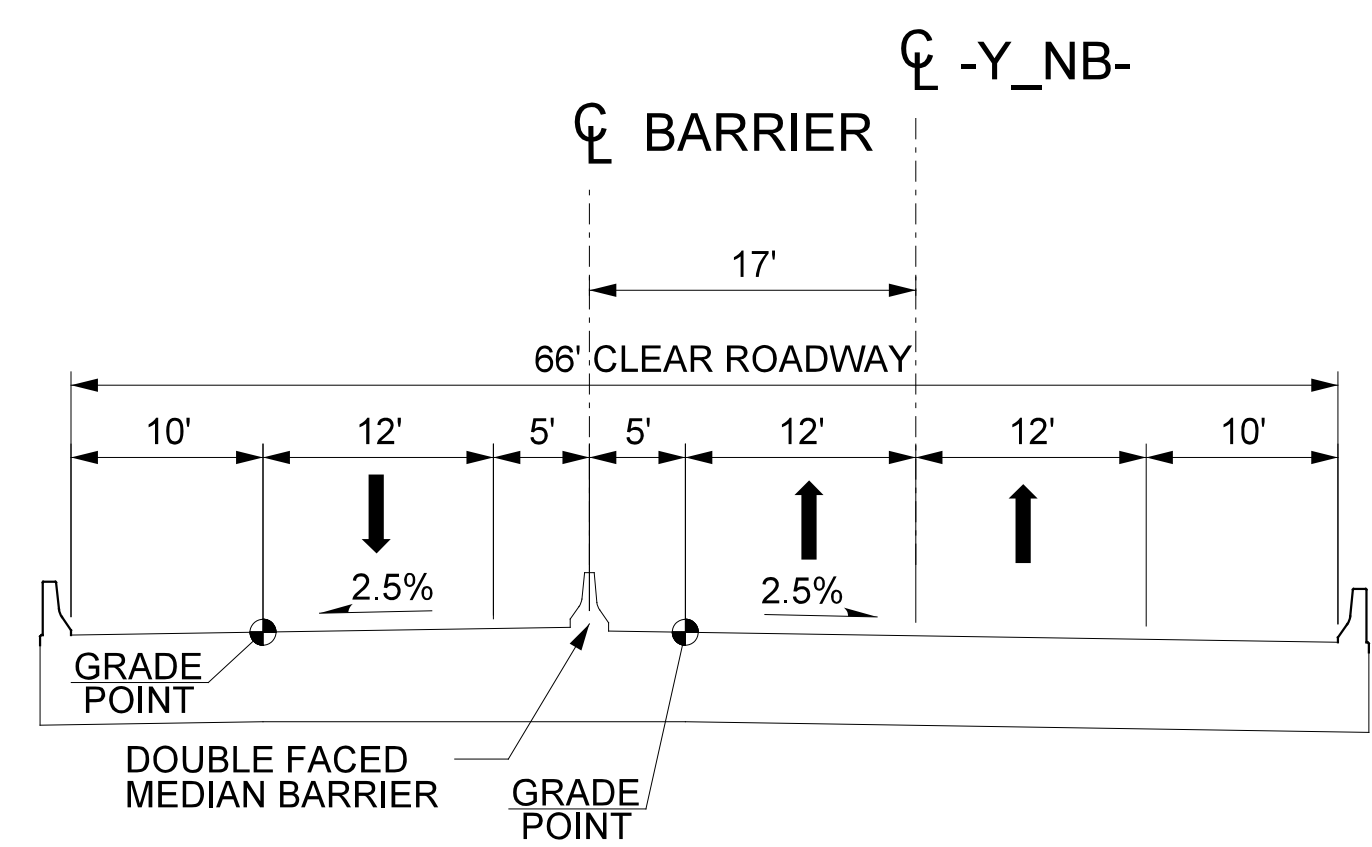
**TYPICAL SECTION NO. 26**  
 -DRW1- STA. 10+70.00 TO 13+51.27

6/17/2024  
 R03Y6-F04-TYP.dgn  
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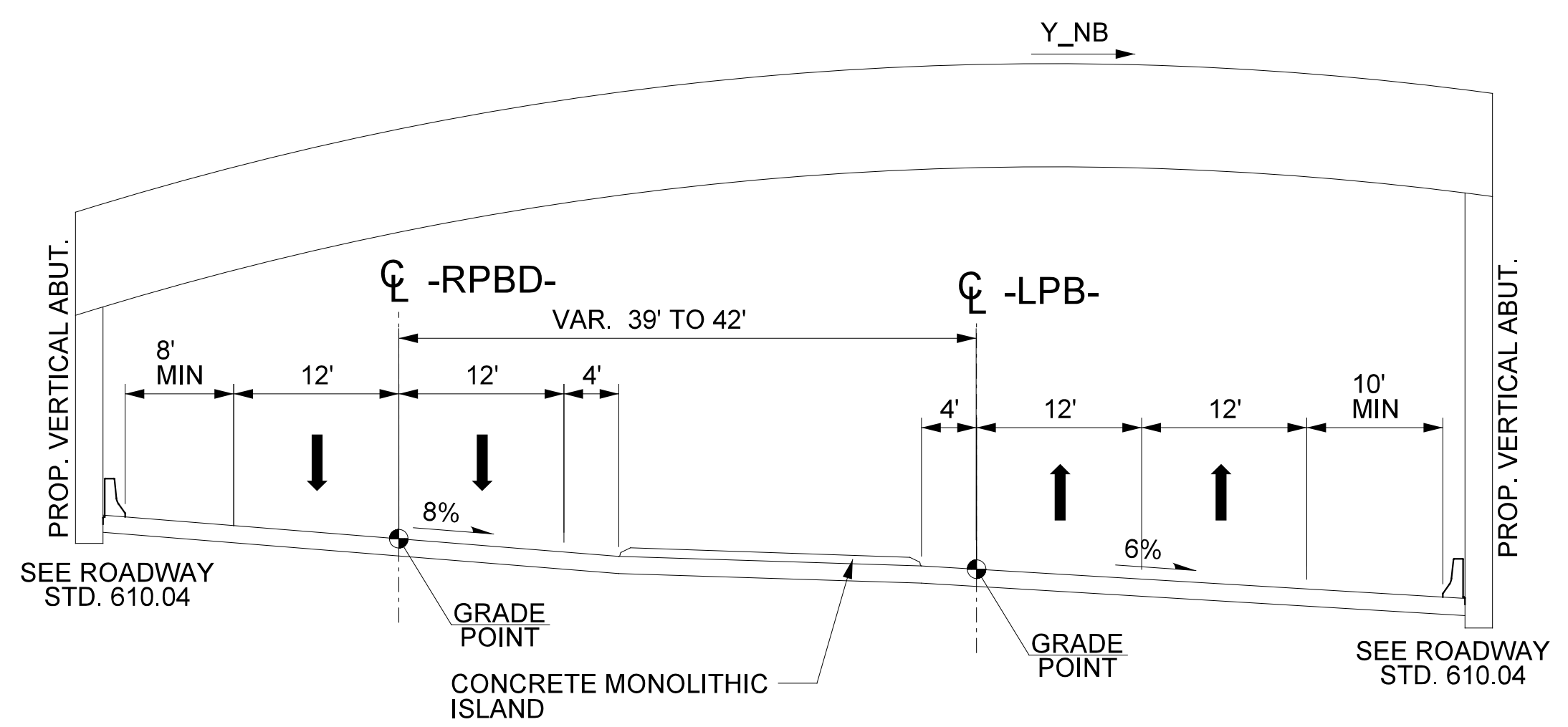
6/2/99

PROJECT REFERENCE NO. R-2576	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	

# BRIDGE AT FROM -Y\_NB- STA. 27+78.62 OVER -RPBD- STA. 15+04.95 AND AT -Y\_NB- STA. 28+24.01 OVER -LPB STA. 15+57.67



**STRUCTURE TYPICAL SECTION**

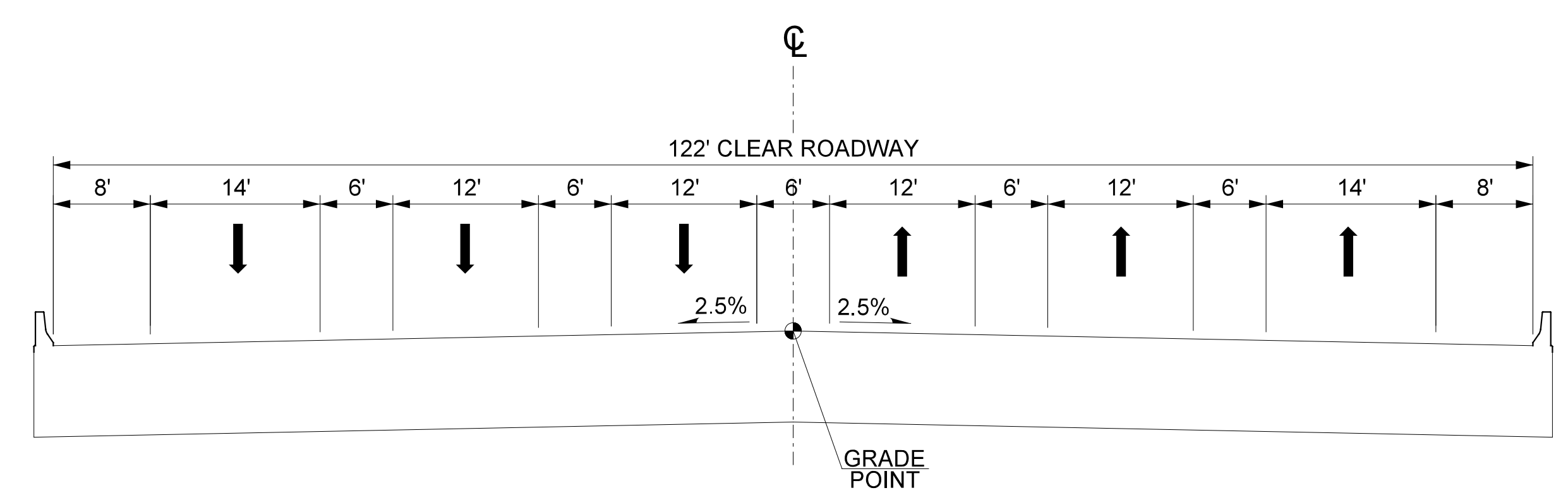


**TYPICAL SECTION UNDER BRIDGE**

6/17/2024  
R-2576-Fig-TYP.dgn  
C. KELLEY

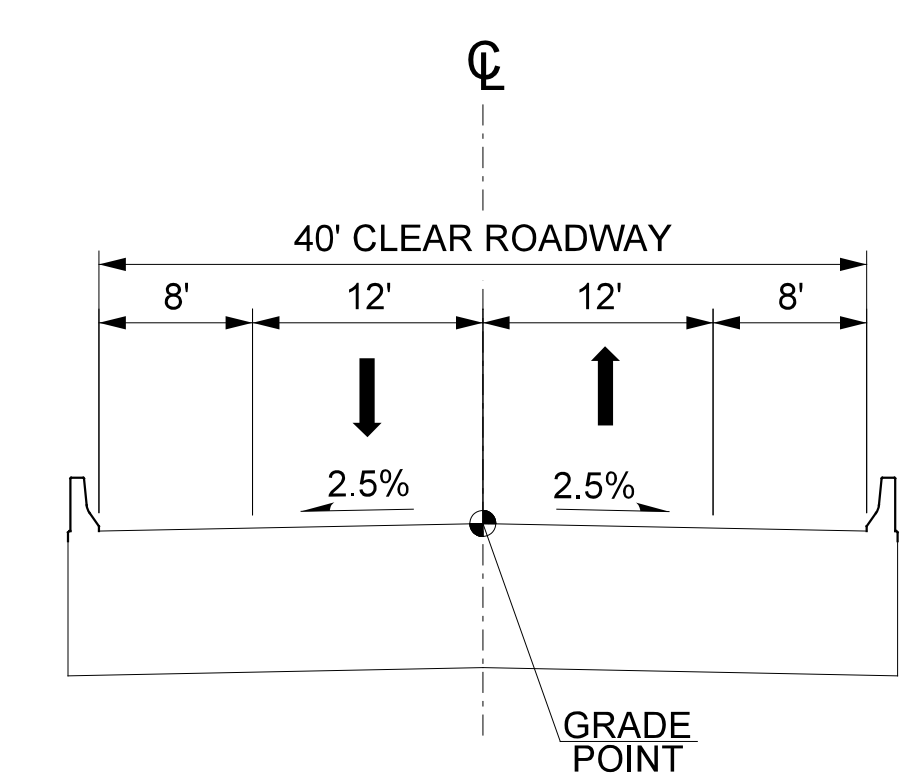
PROJECT REFERENCE NO. R-2576	SHEET NO. 2A-9
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

## BRIDGE FROM -L- STA. 22+46± TO STA. 100+88± OVER MAPLE SWAMP



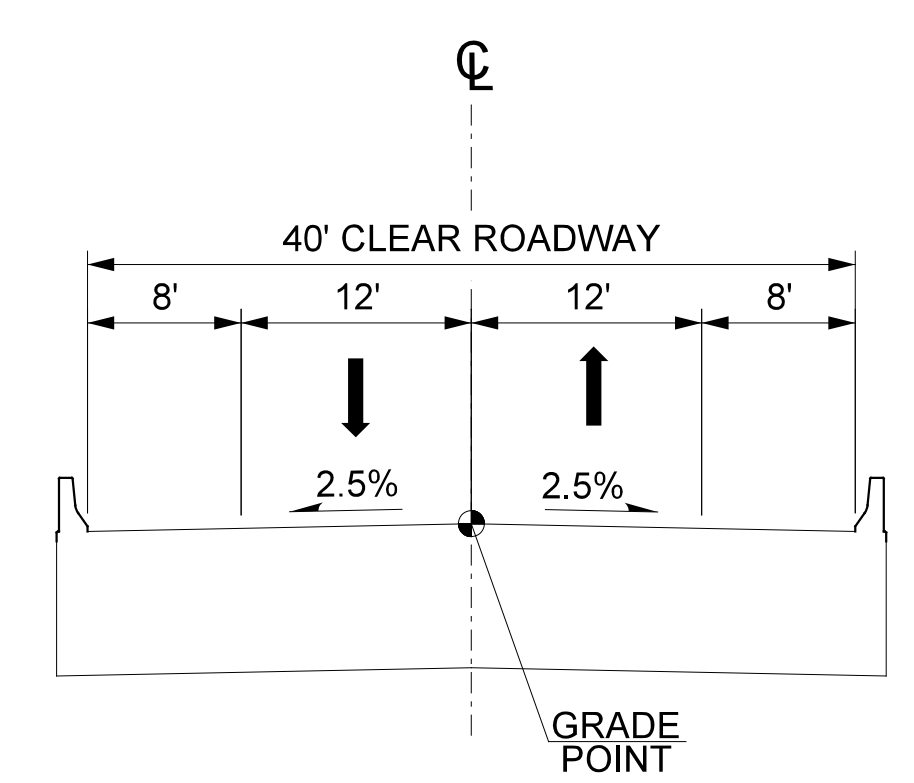
**BRIDGE TYPICAL NO. 1**  
-L- STA. 22+45± (BEGIN BRIDGE) TO 26+00.00

TRANSITION FROM BRIDGE TYPICAL  
NO. 1 TO NO. 2  
AT THE FOLLOWING LOCATIONS:  
-L- STA. 26+00.00 TO 33+00.00



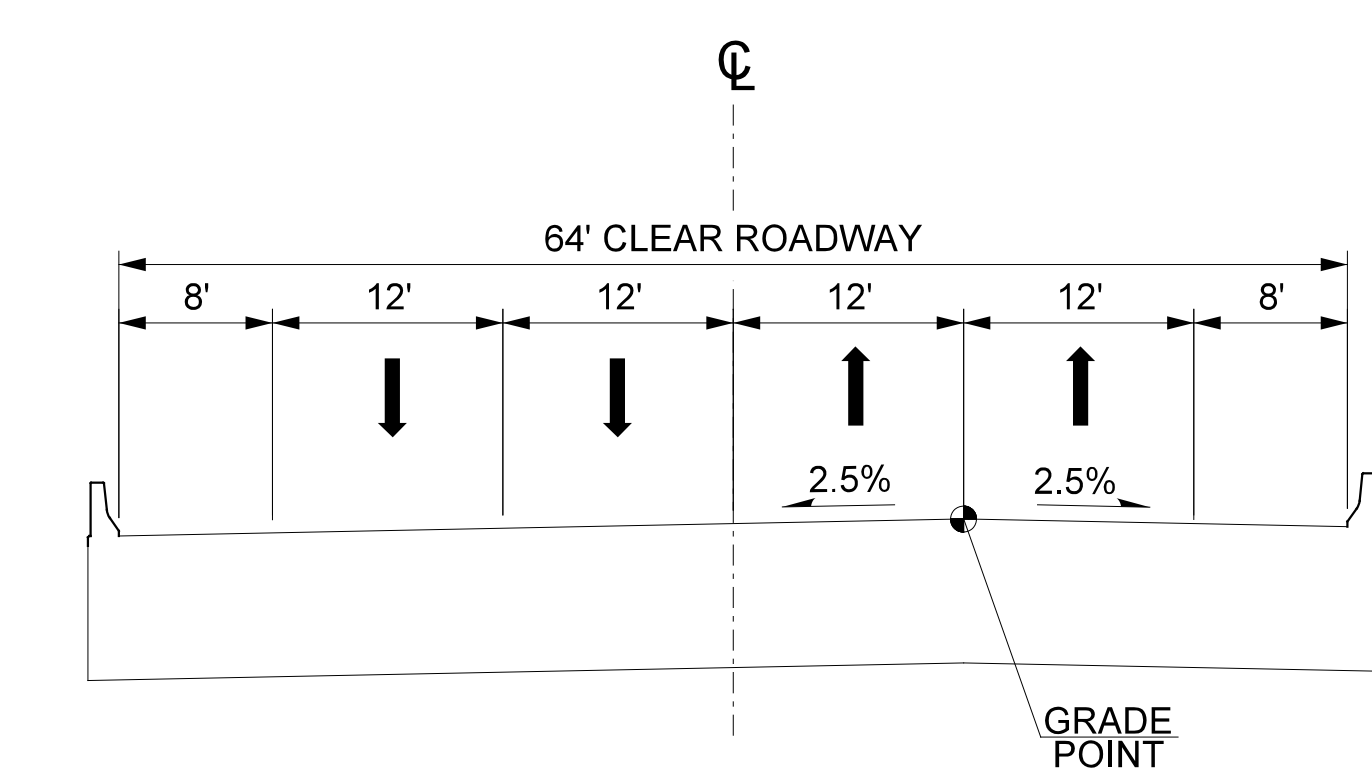
**BRIDGE TYPICAL NO. 2**  
-L- STA. 33+00.00 TO STA. 100+88±(END BRIDGE)

## BRIDGE FROM -L- STA. 118+05± TO STA. 364+70± OVER CURRITUCK SOUND AND AT -L- STA. 118+31.91 OVER -Y3- STA. 13+81.47

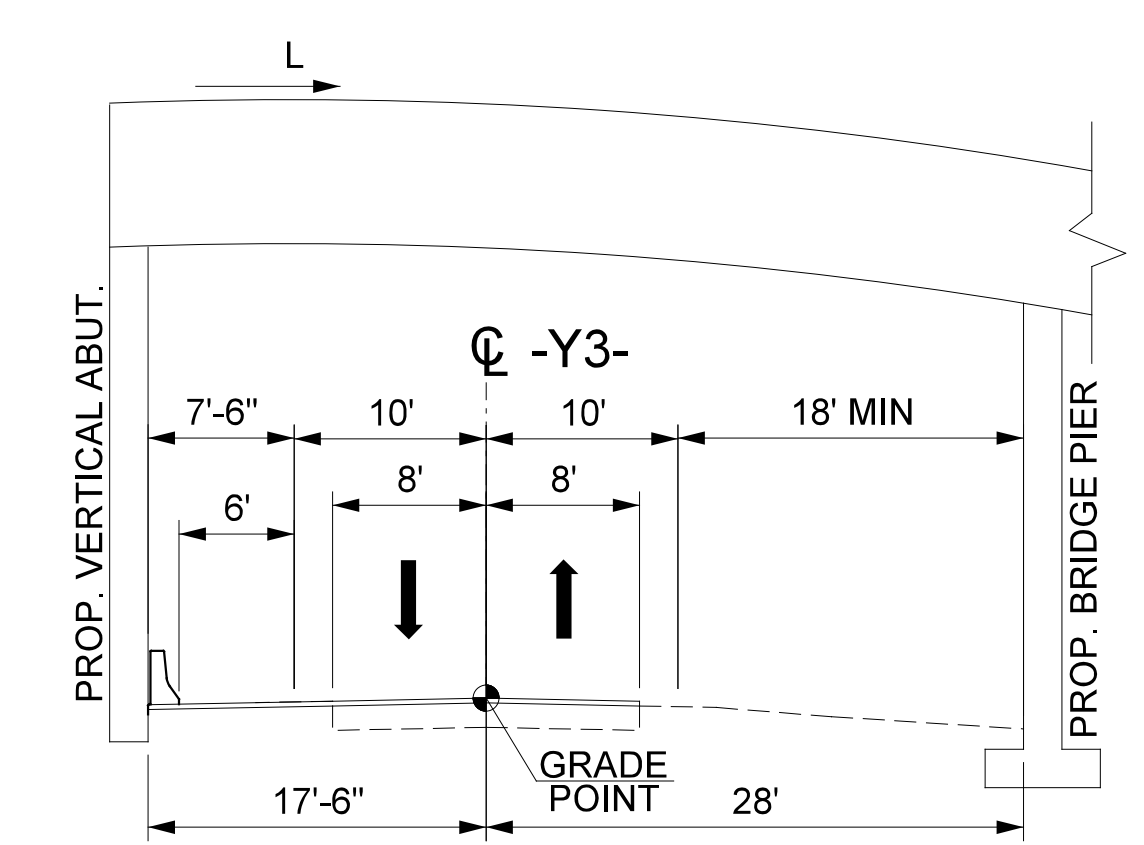


**BRIDGE TYPICAL NO. 3**  
-L- STA. 118+05± TO 356+00.00

TRANSITION FROM BRIDGE TYPICAL  
NO. 3 TO NO. 4  
AT THE FOLLOWING LOCATIONS:  
-L- STA. 356+00.00 TO 363+00.00



**BRIDGE TYPICAL NO. 4**  
-L- STA. 363+00.00 TO STA. 364+70±



**TYPICAL SECTION UNDER STRUCTURE**

6/17/2024  
R0376-F04-TYP.dgn  
C. KELLEY

# DITCH DETAILS

## LOCHNER

H. W. LOCHNER, INC.  
2840 PLAZA PLACE, SUITE 202  
RALEIGH, NC 27612  
(919) 571-7111

NC License  
Number F-0159



1223 Jones Franklin Rd.  
Raleigh, N.C. 27606  
License No. F-0377  
Bus: 919 851 8077  
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.

R-2576

SHEET NO.

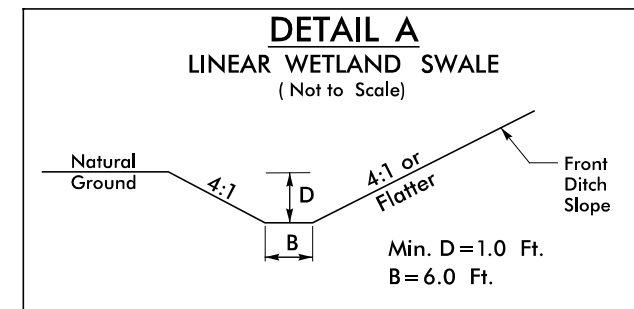
2D-1

ROADWAY DESIGN  
ENGINEER

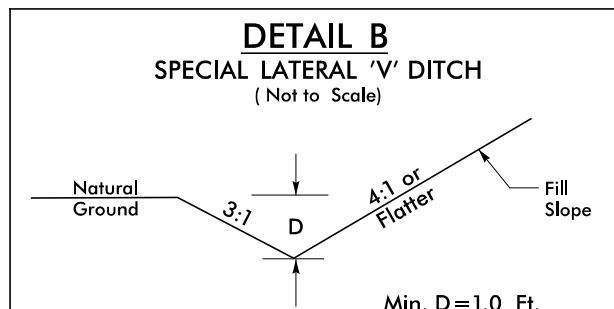
PAVEMENT DESIGN  
ENGINEER

**INCOMPLETE PLANS**  
DO NOT USE FOR R/W ACQUISITION

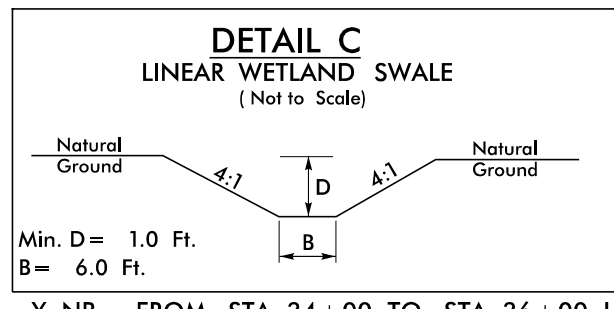
**DOCUMENT NOT CONSIDERED FINAL**  
**UNLESS ALL SIGNATURES COMPLETED**



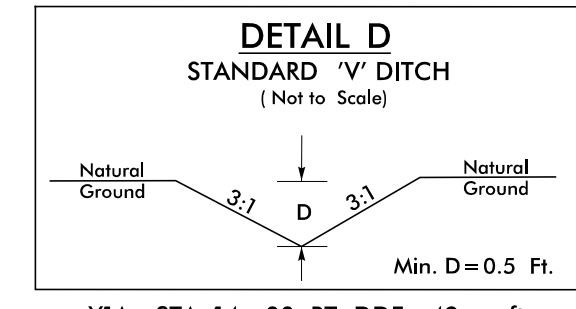
- Y2A- FROM STA. 12+00 TO STA. 16+00 LT
- Y2A- FROM STA. 12+00 TO STA. 17+00 RT
- Y2A- FROM STA. 24+00 TO STA. 25+00 LT
- Y- FROM STA. 22+85 TO STA. 32+50 RT
- Y- FROM STA. 36+00 TO STA. 41+50 RT
- RPD- FROM STA. 12+47 TO STA. 13+75 LT
- RPBD- FROM STA. 10+00 TO STA. 12+00 LT
- RPBD- FROM STA. 11+50 TO STA. 13+50 RT
- RPA- FROM STA. 14+50 TO STA. 15+00 RT
- Y NB- FROM STA. 29+75 TO STA. 35+00 RT
- Y NB- FROM STA. 30+66 TO STA. 34+00 LT
- Y NB- FROM STA. 24+50 TO STA. 25+00 RT
- Y2- FROM STA. 16+50 TO STA. 26+00 RT
- Y2- FROM STA. 18+00 TO STA. 25+50 LT
- Y4- FROM STA. 36+00 TO STA. 39+50 LT



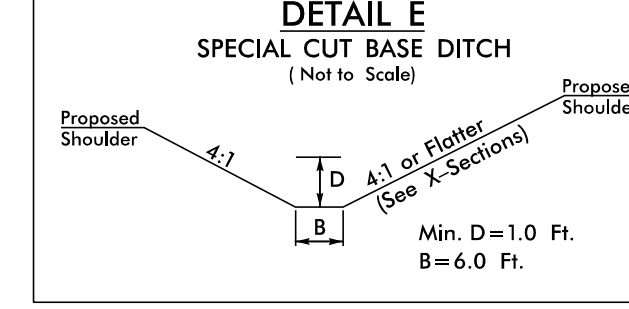
- Y2A- FROM STA. 17+00 TO STA. 17+50 LT
- Y2A- FROM STA. 25+00 TO STA. 27+00 LT
- Y- FROM STA. 33+00 TO STA. 36+00 RT
- Y- FROM STA. 41+50 TO STA. 43+00 RT
- Y2B- FROM STA. 9+58 RT TO STA. 11+34 LT
- Y NB- FROM STA. 20+00 TO STA. 24+50 RT
- Y NB- FROM STA. 35+00 TO STA. 39+00 RT
- RPBD- FROM STA. 10+00 TO STA. 11+50 RT
- Y2- FROM STA. 10+65 TO STA. 15+50 RT
- Y2- FROM STA. 10+85 TO STA. 15+50 LT
- Y2- FROM STA. 25+50 TO STA. 26+10 LT
- Y2- FROM STA. 28+50 TO STA. 31+75 LT
- Y2B- FROM STA. 12+00 TO STA. 16+44 RT
- Y2B- FROM STA. 12+00 TO STA. 16+00 LT
- Y1A- FROM STA. 10+50 TO STA. 13+85 LT
- Y1A- FROM STA. 10+50 TO STA. 14+00 RT
- Y1A- FROM STA. 18+00 TO STA. 19+00 LT



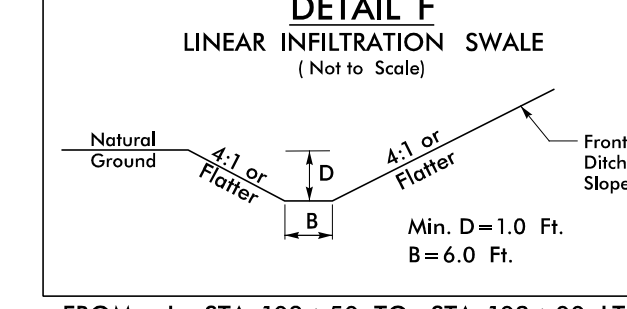
- Y NB- FROM STA. 34+00 TO STA. 36+00 LT
- Y NB- FROM STA. 38+50 TO STA. 41+50 LT



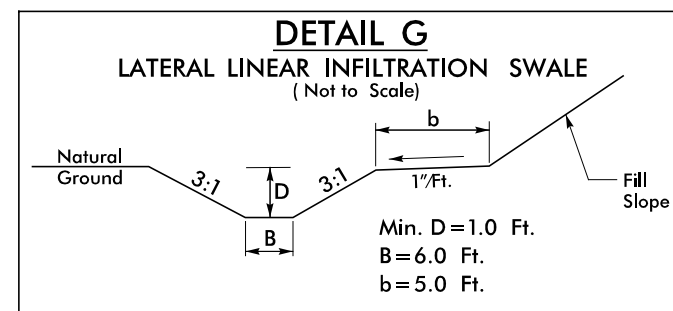
- Y1A- STA. 14+00 RT; DDE=42 cu.ft.
- Y1A- STA. 16+58 LT; DDE=185 cu.ft.
- Y1A- STA. 16+66 RT; DDE=60 cu.ft.
- Y1A- STA. 19+00 RT; DDE=94 cu.ft.



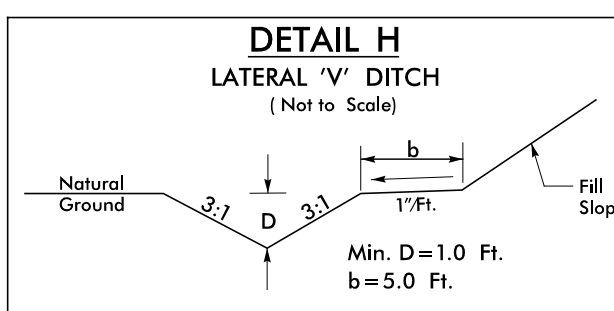
- Y- FROM STA. 68+80 TO STA. 69+50 RT



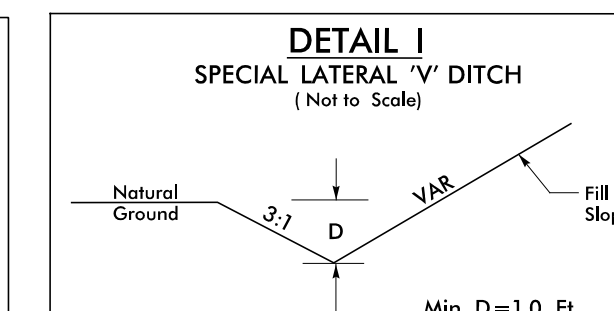
- FROM -L- STA. 103+50 TO STA. 109+00 LT
- FROM -L- STA. 103+50 TO STA. 109+50 RT



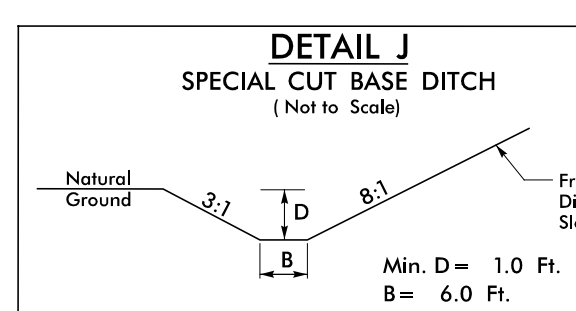
- FROM -L- STA. 109+00 TO STA. 110+50 LT
- FROM -L- STA. 109+50 TO STA. 110+50 RT



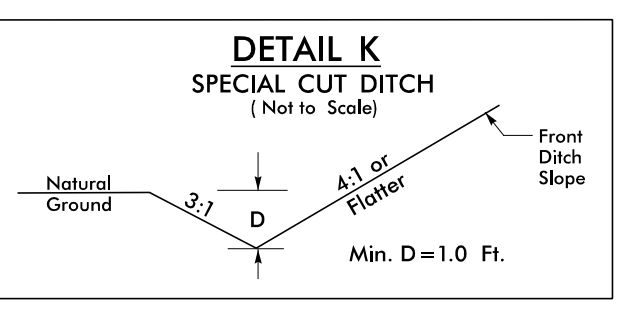
- FROM -L- STA. 112+00 TO STA. 116+00 LT



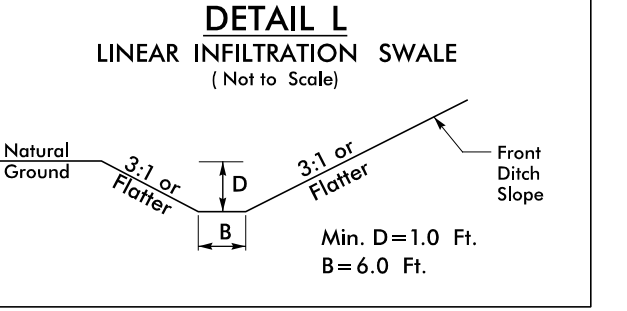
- Y- FROM STA. 70+50 TO STA. 72+50 RT



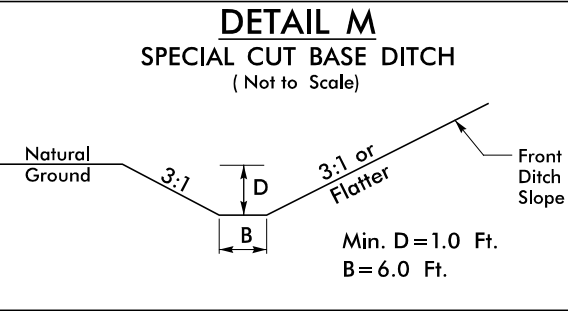
- Y- FROM STA. 72+50 TO STA. 84+50 RT



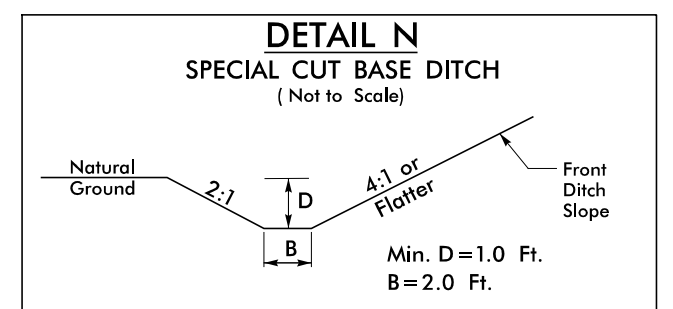
- Y4C- FROM STA. 10+50 TO STA. 11+50 RT
- Y4C- FROM STA. 10+50 TO STA. 11+50 LT
- Y2- FROM STA. 15+00 TO STA. 16+00 RT
- Y2B- FROM STA. 10+75 LT TO STA. 11+50 RT
- Y7- FROM STA. 51+30 TO STA. 52+30 LT
- Y7- FROM STA. 58+27 TO STA. 59+50 LT



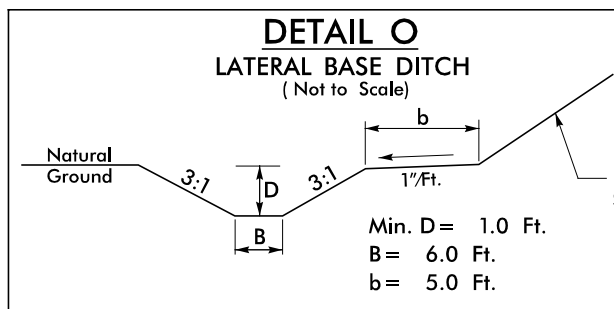
- FROM -Y4- STA. 21+00 TO STA. 26+00 LT
- FROM -Y4- STA. 20+50 TO STA. 22+50 RT
- Y5- FROM STA. 10+28 TO STA. 19+00 RT
- Y5R- FROM STA. 11+60 TO STA. 13+10 RT



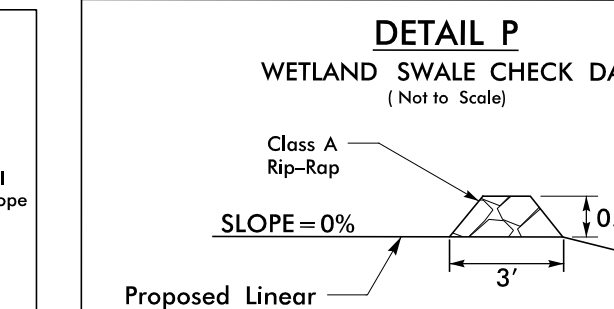
- FROM -Y4- STA. 24+70 TO STA. 25+50 RT
- FROM -Y4- STA. 30+50 TO STA. 32+50 RT
- FROM -Y4- STA. 37+00 TO STA. 37+50 RT
- FROM -Y4- STA. 39+50 TO STA. 42+50 RT



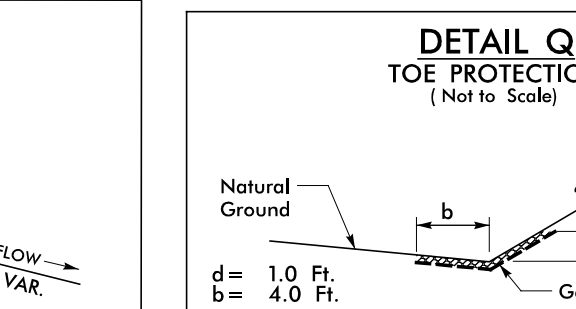
- Y- FROM STA. 32+50 TO STA. 33+00 RT



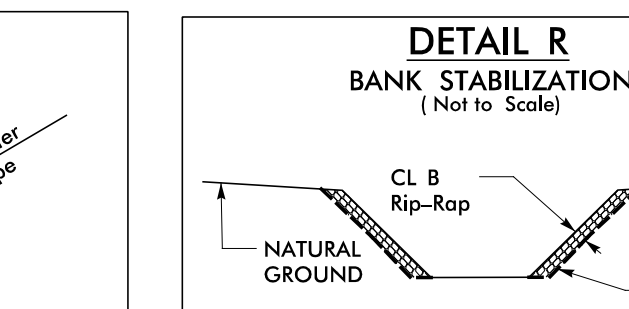
- FROM -L- STA. 113+00 TO STA. 114+50 RT



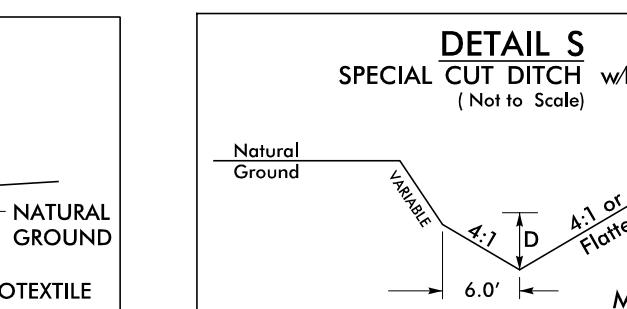
- Y2A- STA. 12+50 LT
- Y2A- STA. 13+00 RT
- Y2A- STA. 15+00 LT
- Y2A- STA. 15+00 RT
- Y2A- STA. 16+00 LT
- Y2A- STA. 16+50 RT
- Y2- STA. 18+50 LT
- Y2- STA. 18+50 RT
- Y2- STA. 22+00 LT
- Y2- STA. 22+50 RT
- Y2- STA. 23+00 LT
- Y2- STA. 24+50 RT
- Y2- STA. 25+50 LT
- Y- STA. 23+40 RT
- Y- STA. 28+75 RT
- Y- STA. 32+50 RT
- Y- STA. 34+00 RT
- Y- STA. 41+00 RT
- Y NB- STA. 31+50 LT
- Y NB- STA. 32+00 RT
- Y NB- STA. 32+50 LT
- Y NB- STA. 33+00 RT
- Y NB- STA. 40+00 LT
- Y NB- STA. 40+50 LT
- Y4- STA. 21+00 RT
- Y4- STA. 37+45 LT
- Y4- STA. 38+00 LT
- Y5- STA. 10+70 RT
- Y5- STA. 11+50 RT
- Y5- STA. 12+50 RT
- Y5- STA. 13+50 RT
- Y5- STA. 14+50 RT
- Y5R- STA. 12+70 RT



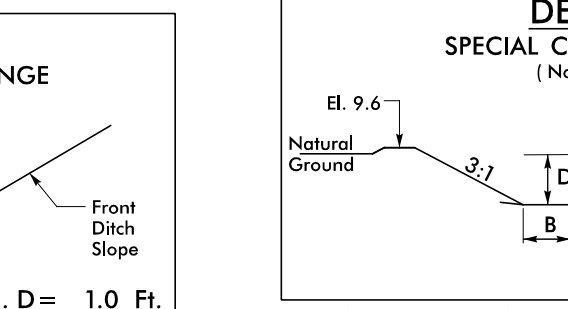
- Y- FROM STA. 21+77 TO STA. 23+70 LT
- Y- FROM STA. 40+83 TO STA. 42+54 LT
- Y- FROM STA. 84+63 TO STA. 90+06 RT
- Y- FROM STA. 91+24 TO STA. 99+89 RT
- Y- FROM STA. 94+20 TO STA. 98+11 LT
- Y1A- FROM STA. 24+37 TO STA. 24+57 LT
- Y1A- FROM STA. 24+59 TO STA. 24+92 RT



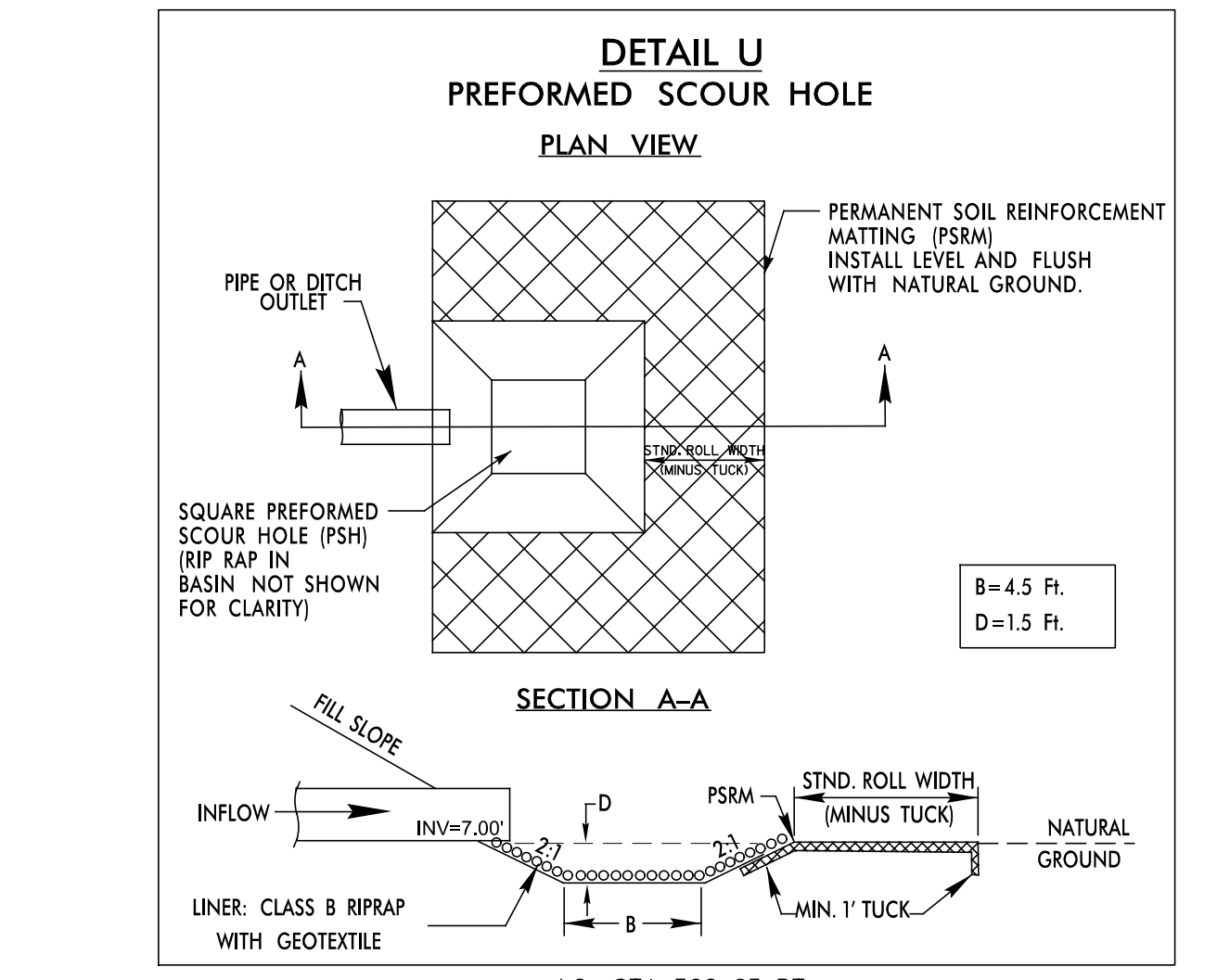
- Y SB- STA. 22+75 LT



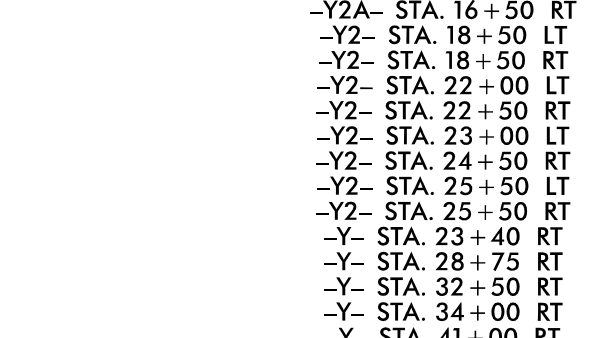
- Y- FROM STA. 18+00 TO STA. 19+00 RT
- Y- FROM STA. 20+00 TO STA. 22+85 RT



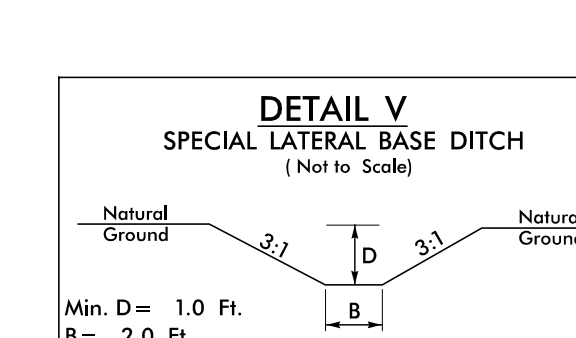
- Y2A- FROM STA. 17+00 TO STA. 18+50 RT



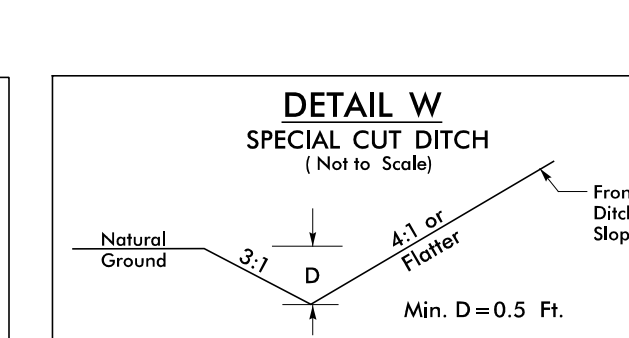
- L2- STA. 366+85 RT



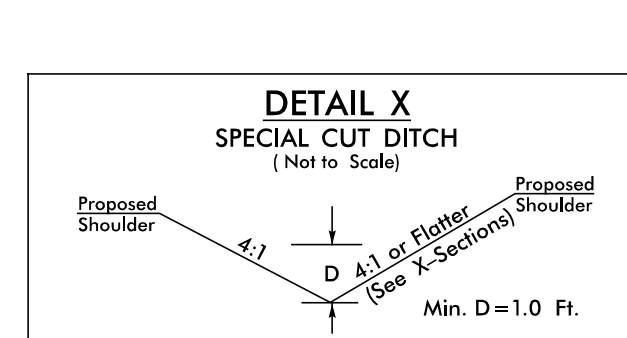
- Y7- FROM STA. 44+00 LT; DDE=550 cu.ft.



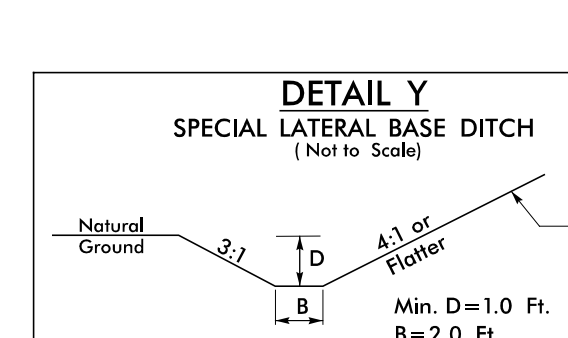
- Y2A- FROM STA. 22+50 TO STA. 23+50 LT



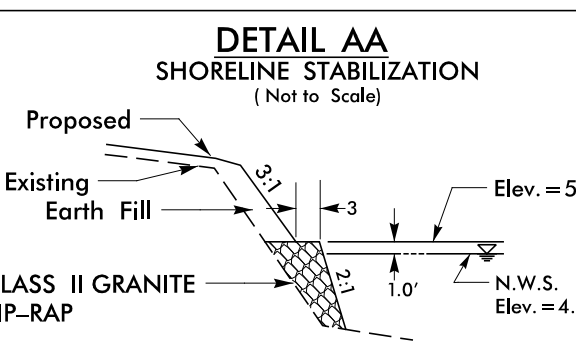
- Y- FROM STA. 69+50 TO STA. 73+00 RT



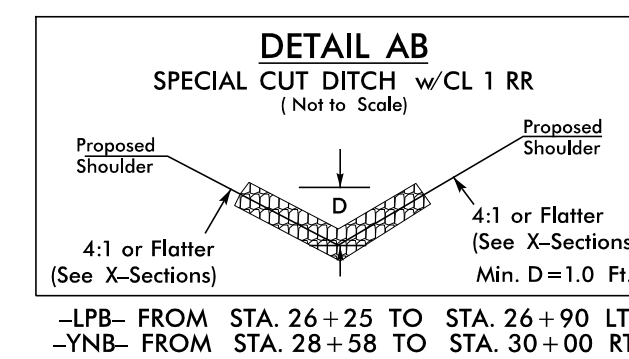
- Y2- FROM STA. 26+00 TO STA. 31+75 RT
- Y2A- FROM STA. 16+00 TO STA. 17+00 LT



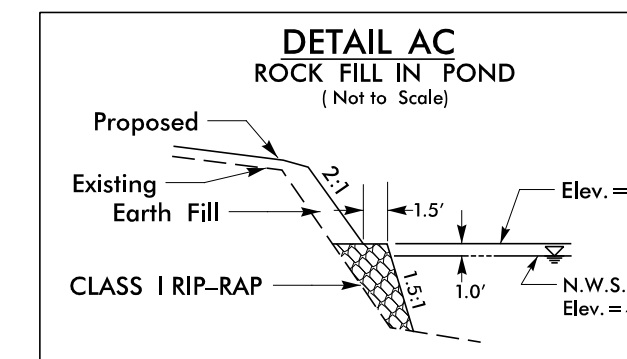
- Y NB- FROM STA. 42+50 TO STA. 46+14 LT



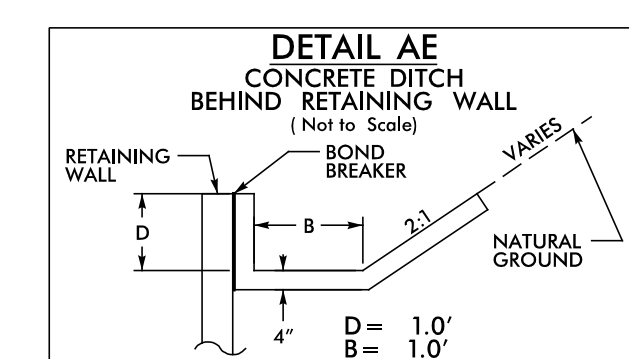
- Y2A- FROM STA. 30+75 TO STA. 31+75 LT



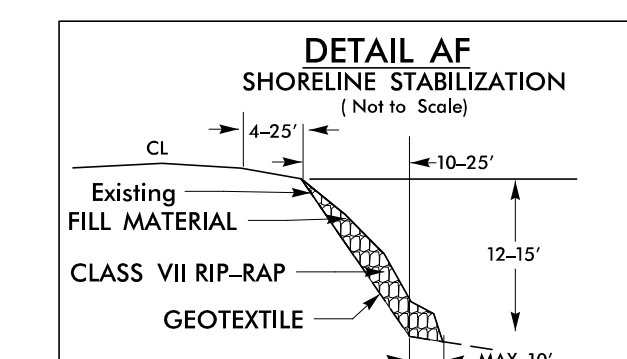
- LPB- FROM STA. 26+25 TO STA. 26+90 LT
- YNB- FROM STA. 28+58 TO STA. 30+00 RT



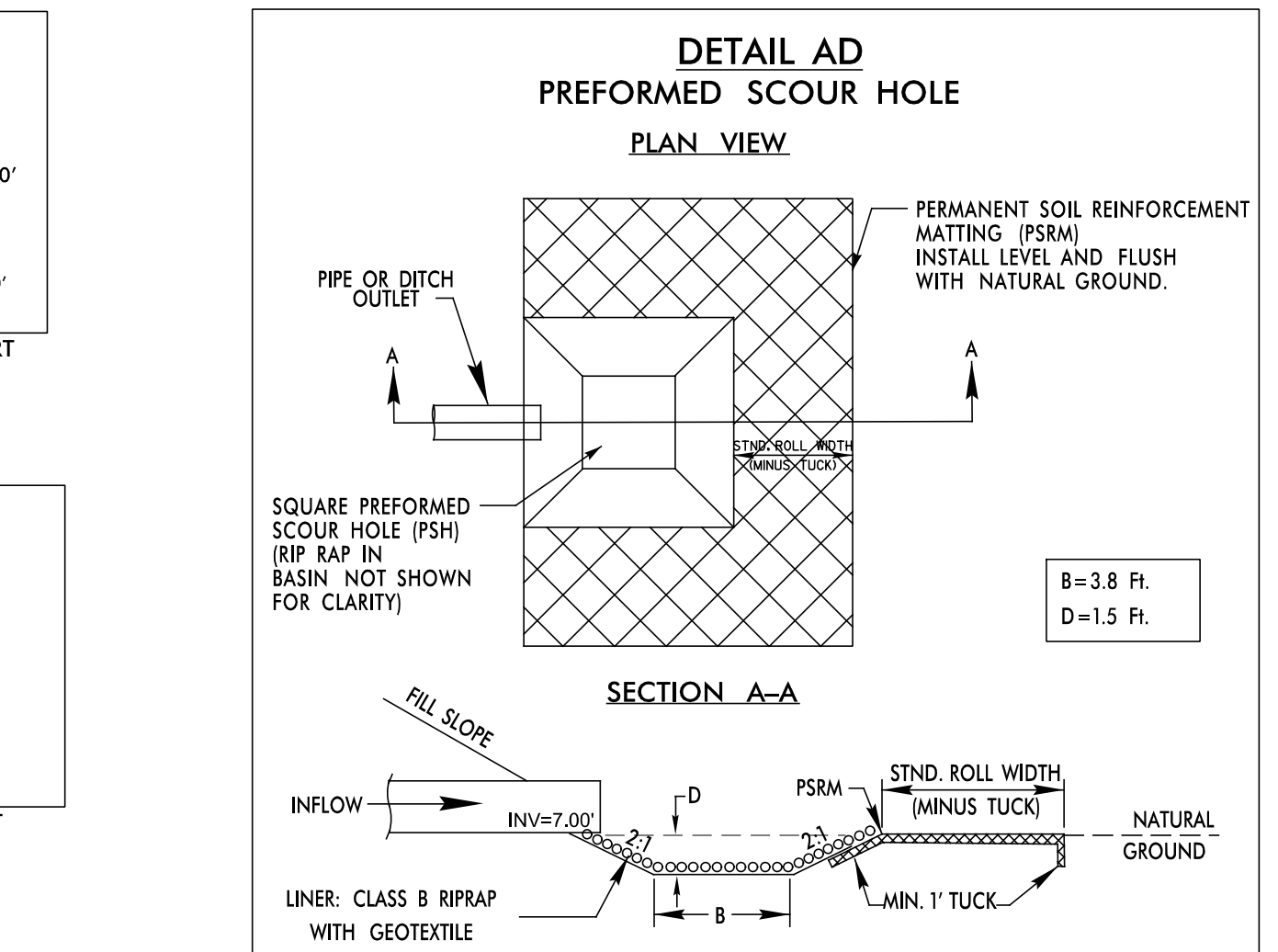
- FROM -L2- STA. 368+46 TO STA. 368+84 RT
- FROM -Y4- STA. 41+52 TO STA. 42+77 LT



- FROM -Y4- STA. 39+80 TO STA. 40+60



- FROM Y3 STA. 12+90 TO STA. 15+14 RT



- L STA. 19+65 LT

STATE OF NORTH CAROLINA  
 DIVISION OF HIGHWAYS

**LOCHNER**  
 H. W. LOCHNER, INC.  
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NC License  
 Number F-0159

**WETHERILL ENGINEERING**  
 TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

**PRELIMINARY SUMMARY OF EARTHWORK  
 IN CUBIC YARDS**

LOCATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT + %	BORROW	WASTE
<b>SUMMARY #1</b>					
-L- 16+65 TO 22+46	333	3,612	16,901	16,900	3,944
-Y_NB- 20+00 TO 27+51 (BEG BRIDGE)	770	--	221,550	220,780	--
-RPD- 13+00 TO 13+50	179	--	2,459	2,370	--
-RPBD- 10+00 TO 17+00	1,994	--	26,681	24,687	--
-Y_SB- 18+00 TO 36+00	38	--	163,249	163,211	--
<b>TOTAL SUMMARY #1</b>	<b>3,314</b>	<b>3,612</b>	<b>430,931</b>	<b>427,949</b>	<b>3,944</b>
<b>SUMMARY #2</b>					
-Y_NB- 28+74 (END BRIDGE) TO 46+00	2,821	--	346,648	343,827	--
-LPB- 25+00 TO 27+00	--	--	20,344	20,344	--
-RPA- 14+50 TO 15+00	34	--	2,102	2,068	--
<b>TOTAL SUMMARY #2</b>	<b>2,855</b>	<b>--</b>	<b>369,093</b>	<b>366,238</b>	<b>--</b>
<b>SUMMARY #3</b>					
-Y- 14+75 TO 43+00	10,620	--	50,185	39,565	--
-Y2- 10+35 TO 31+75	4,077	--	4,996	919	--
-Y2A- 10+11 TO 29+38	962	--	12,879	11,917	--
-Y2B- 11+00 TO 16+56	1,182	--	407	--	775
-DRWI- 10+25 TO 13+51.27	19	--	649	630	--
<b>TOTAL SUMMARY #3</b>	<b>16,860</b>	<b>--</b>	<b>69,116</b>	<b>53,031</b>	<b>775</b>
<b>SUMMARY #4</b>					
-Y- 69+00 TO 102+50	7,894	--	21,379	13,485	--
-Y1- 10+35 TO 13+50	47	--	416	369	--
-Y1A- 10+06 TO 25+28	298	--	2,423	2,125	--
<b>TOTAL SUMMARY #4</b>	<b>8,239</b>	<b>--</b>	<b>24,218</b>	<b>15,979</b>	<b>--</b>
<b>SUMMARY #5</b>					
-L- 100+89 (END BRIDGE) TO 118+05 (BEG BRIDGE)	2,544	2,285	77,743	75,337	2,423
-Y3- 12+50 TO 15+00	441	--	--	--	441
-Y3B- 9+98 TO 12+82	165	--	282	117	--
<b>TOTAL SUMMARY #5</b>	<b>3,150</b>	<b>2,285</b>	<b>78,025</b>	<b>75,454</b>	<b>2,864</b>
<b>SUMMARY #6</b>					
-L- 364+70 (END BRIDGE) TO -L2- 369+51.21	132	1,342	16,095	16,095	1,474
-Y5R- 10+00 TO 14+39	471	--	10,979	10,508	--
<b>TOTAL SUMMARY #6</b>	<b>603</b>	<b>1,342</b>	<b>27,074</b>	<b>26,603</b>	<b>1,474</b>

LOCATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT + %	BORROW	WASTE
<b>SUMMARY #7</b>					
-Y4- 20+00 TO 44+85	14,880	--	5,225	--	9,655
-Y4A- 10+00 TO 11+88	104	--	3	--	101
-Y4A- 12+41 TO 13+50	41	--	1	--	40
-Y4B- 10+80 TO 11+73	16	--	3	--	13
-Y4C- 10+33 TO 11+71	1,529	--	--	--	1,529
<b>TOTAL SUMMARY #7</b>	<b>16,570</b>	<b>--</b>	<b>5,231</b>	<b>--</b>	<b>11,339</b>
<b>SUMMARY #8</b>					
-Y5- 10+38 TO 19+47	1,933	--	3,916	1,983	--
<b>TOTAL SUMMARY #8</b>	<b>1,933</b>	<b>--</b>	<b>3,916</b>	<b>1,983</b>	<b>--</b>
<b>SUMMARY #9</b>					
-Y6- 10+15 TO 13+03	143	--	60	--	83
<b>TOTAL SUMMARY #9</b>	<b>143</b>	<b>--</b>	<b>60</b>	<b>--</b>	<b>83</b>
<b>SUMMARY #10</b>					
-Y7- 42+50 TO 62+22	2,347	--	814	--	1,533
<b>TOTAL SUMMARY #10</b>	<b>2,347</b>	<b>--</b>	<b>814</b>	<b>--</b>	<b>1,533</b>
<b>TOTAL SUMMARIES 1-10</b>	<b>56,134</b>	<b>7,239</b>	<b>1,008,055</b>	<b>966,980</b>	<b>22,297</b>
WASTE IN LIEU OF BORROW	--	--	--	-14,456	-14,456
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT	--	--	--	47,626	--
<b>GRAND TOTAL</b>	<b>56,134</b>	<b>7,239</b>	<b>1,008,055</b>	<b>1,000,149</b>	<b>7,841</b>
SAY	56,140	--	--	1,000,150	7,850

6/21/00

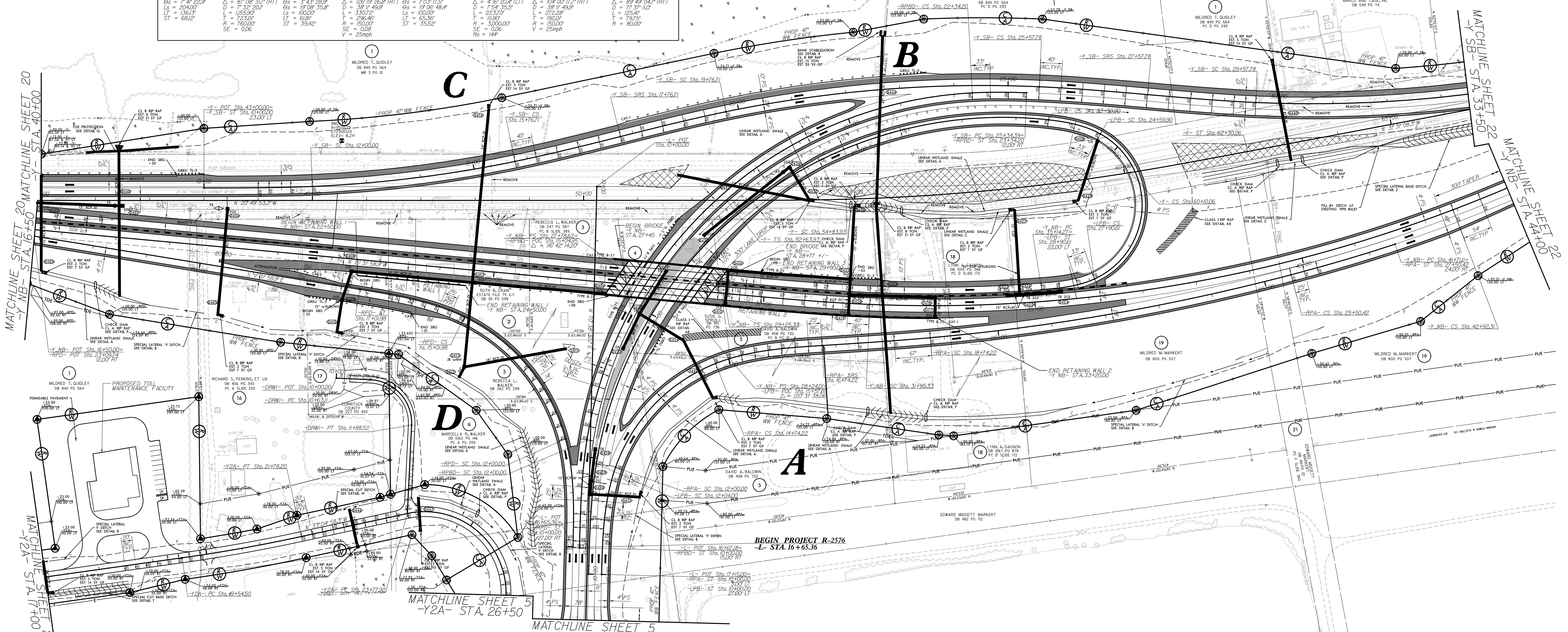
6/17/2024  
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 C. DICKLEY

REVISIONS

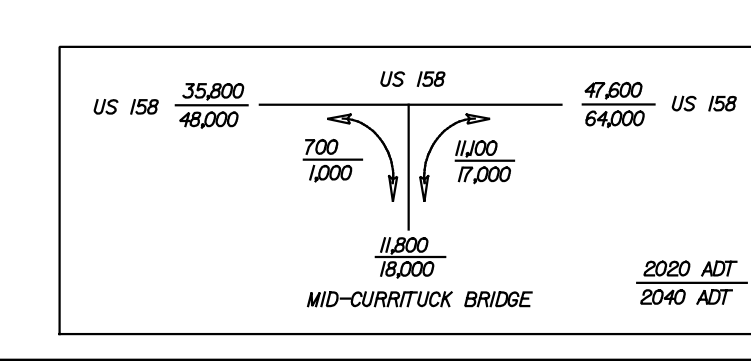
-Y- Pts Sta 54+00.00 Δ = 7' 34" 32.3" Ls = 200.00' LT = 146.67' T = 263.44' ST = 73.34' R = 4000.00'	-Y-NB- Pts Sta 57+47.38 Δ = 7' 32" 10.4" (LT) Ls = 200.00' LT = 146.67' T = 263.44' ST = 73.34' R = 4000.00'	Pts Sta 60+83.40 Δ = 1' 34" 32.3" Ls = 200.00' LT = 146.67' T = 263.44' ST = 73.34' R = 4000.00'	Pts Sta 61+05.35 Δ = 2' 51" 53.2" Ls = 200.00' LT = 146.67' T = 263.44' ST = 73.34' R = 4000.00'	-Y-NB- Pts Sta 31+05.35 Δ = 2' 51" 53.2" Ls = 200.00' LT = 146.67' T = 263.44' ST = 73.34' R = 4000.00'	Pts Sta 31+51.49 Δ = 2' 51" 53.2" Ls = 200.00' LT = 146.67' T = 263.44' ST = 73.34' R = 4000.00'	Pts Sta 43+82.33 Δ = 2' 51" 53.2" Ls = 200.00' LT = 146.67' T = 263.44' ST = 73.34' R = 4000.00'	-Y-NB- Pts Sta 11+33.35 Δ = 2' 26" 17.2" Ls = 200.00' LT = 133.35' T = 189.29' ST = 66.68' R = 2350.00'	-Y-NB- Pts Sta 13+86.76 Δ = 9' 11" 04.7" (LT) Ls = 200.00' LT = 133.35' T = 189.29' ST = 66.68' R = 2350.00'	Pts Sta 16+43.39 Δ = 2' 26" 17.2" Ls = 200.00' LT = 133.35' T = 189.29' ST = 66.68' R = 2350.00'	Pts Sta 19+10.06 Δ = 2' 26" 17.2" Ls = 200.00' LT = 133.35' T = 189.29' ST = 66.68' R = 2350.00'	-Y-SB- Pts Sta 22+68.76 Δ = 14' 10" 01.7" (RT) Ls = 200.00' LT = 133.35' T = 189.29' ST = 66.68' R = 2350.00'	-Y-SB- Pts Sta 26+24.46 Δ = 2' 26" 17.2" Ls = 200.00' LT = 133.35' T = 189.29' ST = 66.68' R = 2350.00'	Pts Sta 28+90.3 Δ = 2' 26" 17.2" Ls = 200.00' LT = 133.35' T = 189.29' ST = 66.68' R = 2350.00'	Pts Sta 31+97.9 Δ = 10' 41" 31.5" (LT) Ls = 200.00' LT = 133.35' T = 223.0' ST = 2350.00' R = 0.05	Pts Sta 34+61.77 Δ = 2' 26" 17.2" Ls = 200.00' LT = 133.35' T = 189.29' ST = 66.68' R = 2350.00'
-RPA- Pts Sta 13+46.76 Δ = 17' 54" 17.8" Ls = 200.00' LT = 134.02' T = 146.67' R = 4500.00' SE = 0.08	Pts Sta 15+41.51 Δ = 17' 54" 17.8" Ls = 200.00' LT = 134.02' T = 146.67' R = 4500.00' SE = 0.08	Pts Sta 18+07.55 Δ = 1' 29" 56.6" Ls = 200.00' LT = 133.34' T = 189.29' R = 2700.00' SE = 0.05	Pts Sta 21+13.13 Δ = 9' 41" 09.3" (LT) Ls = 200.00' LT = 133.34' T = 189.29' R = 2700.00' SE = 0.05	Pts Sta 26+56.78 Δ = 1' 29" 56.6" Ls = 200.00' LT = 133.34' T = 189.29' R = 2700.00' SE = 0.05	Pts Sta 11+33.91 Δ = 16' 22" 12.8" Ls = 200.00' LT = 133.34' T = 189.29' R = 2700.00' SE = 0.05	Pts Sta 13+86.1 Δ = 8' 48" 04.7" (RT) Ls = 200.00' LT = 133.34' T = 189.29' R = 2700.00' SE = 0.05	Pts Sta 15+76.1 Δ = 16' 22" 12.8" Ls = 200.00' LT = 133.34' T = 189.29' R = 2700.00' SE = 0.05	Pts Sta 11+33.45 Δ = 7' 32" 20.7" Ls = 200.00' LT = 133.35' T = 189.29' R = 2700.00' SE = 0.08	Pts Sta 14+50.8 Δ = 17' 54" 17.8" (RT) Ls = 200.00' LT = 134.02' T = 146.67' R = 4500.00' SE = 0.08	Pts Sta 22+75.74 Δ = 1' 29" 56.6" Ls = 200.00' LT = 133.34' T = 189.29' R = 2700.00' SE = 0.05	Pts Sta 24+55.91 Δ = 9' 41" 09.3" (RT) Ls = 200.00' LT = 133.34' T = 189.29' R = 2700.00' SE = 0.05	Pts Sta 27+57.78 Δ = 1' 29" 56.6" Ls = 200.00' LT = 133.34' T = 189.29' R = 2700.00' SE = 0.05	Pts Sta 29+77.2 Δ = 1' 29" 56.6" Ls = 200.00' LT = 133.34' T = 189.29' R = 2700.00' SE = 0.05	Pts Sta 31+97.9 Δ = 10' 41" 31.5" (LT) Ls = 200.00' LT = 133.35' T = 223.0' ST = 2350.00' R = 0.05	Pts Sta 34+61.77 Δ = 2' 26" 17.2" Ls = 200.00' LT = 133.35' T = 189.29' ST = 66.68' R = 2350.00'
-LPB- Pts Sta 11+36.13 Δ = 7' 41" 22.9" Ls = 200.00' LT = 136.13' T = 68.12' SE = 0.06	Pts Sta 19+10.01 Δ = 87' 08" 31.7" (RT) Ls = 200.00' LT = 136.13' T = 68.12' SE = 0.06	Pts Sta 24+91.71 Δ = 9' 41" 09.3" (RT) Ls = 200.00' LT = 136.13' T = 68.12' SE = 0.06	Pts Sta 27+56.36 Δ = 1' 29" 56.6" Ls = 200.00' LT = 136.13' T = 68.12' SE = 0.06	Pts Sta 28+45.13 Δ = 19' 06" 48.4" Ls = 200.00' LT = 136.13' T = 68.12' SE = 0.06	Pts Sta 20+56.40 Δ = 4' 18" 20.6" (LT) Ls = 200.00' LT = 136.13' T = 68.12' SE = 0.06	Pts Sta 25+68.93 Δ = 6' 04" 02.1" (RT) Ls = 200.00' LT = 136.13' T = 68.12' SE = 0.06	Pts Sta 11+42.85 Δ = 8' 48" 04.7" (RT) Ls = 200.00' LT = 136.13' T = 68.12' SE = 0.06	-DRAW- Pts Sta 11+42.85 Δ = 8' 48" 04.7" (RT) Ls = 200.00' LT = 136.13' T = 68.12' SE = 0.06	Pts Sta 11+42.85 Δ = 8' 48" 04.7" (RT) Ls = 200.00' LT = 136.13' T = 68.12' SE = 0.06	Pts Sta 11+42.85 Δ = 8' 48" 04.7" (RT) Ls = 200.00' LT = 136.13' T = 68.12' SE = 0.06	Pts Sta 11+42.85 Δ = 8' 48" 04.7" (RT) Ls = 200.00' LT = 136.13' T = 68.12' SE = 0.06	Pts Sta 11+42.85 Δ = 8' 48" 04.7" (RT) Ls = 200.00' LT = 136.13' T = 68.12' SE = 0.06	Pts Sta 11+42.85 Δ = 8' 48" 04.7" (RT) Ls = 200.00' LT = 136.13' T = 68.12' SE = 0.06	Pts Sta 11+42.85 Δ = 8' 48" 04.7" (RT) Ls = 200.00' LT = 136.13' T = 68.12' SE = 0.06	Pts Sta 11+42.85 Δ = 8' 48" 04.7" (RT) Ls = 200.00' LT = 136.13' T = 68.12' SE = 0.06

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 Fax: (919) 876-1077  
 TRANSPORTATION PLANNING/DESIGN/CONSTRUCTION  
 CIVIL/STRUCTURAL/MECHANICAL/ELECTRICAL  
 COLLECTIVE DESIGN/CONSTRUCTION/OPERATION

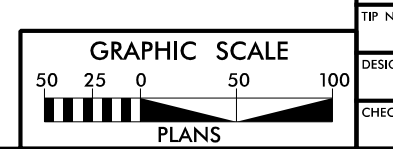
PROJECT REFERENCE NO. **R-2576** SHEET NO. **4**  
 RW SHEET NO. **4**  
 ROADWAY DESIGN  
 INCOMPLETE PLANS  
 UNLESS ALL SIGNATURES COMPLETED  
 DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED  
 PAVED SHOULDER



BEGIN PROJECT R-2576  
 -L- STA. 16+65.36



SEE SHEET 20-1 FOR DITCH DETAILS  
 SEE SHEET 31 FOR -L- PROFILE  
 SEE SHEET 37 FOR -Y- PROFILE  
 SEE SHEET 38 FOR -Y-SB- PROFILE  
 SEE SHEET 39-40 FOR -Y-NB- PROFILE  
 SEE SHEET 41-42 FOR -LPB- PROFILE  
 SEE SHEET 42 FOR -RPB- PROFILE  
 SEE SHEET 43 FOR -RPA- PROFILE  
 SEE SHEET 44 FOR -RPD- PROFILE  
 SEE SHEET 46-47 FOR -Y2A- PROFILE  
 SEE SHEET 46 FOR -DRAW- PROFILE



TP NO.	COUNTY:
DESIGNED BY:	CHECKED BY:
DATE:	DATE:

6/2/2024

6/17/2024  
RSG/6/17/24-rsh05.dgn  
C. COCKELEY

# LOCHNER

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Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

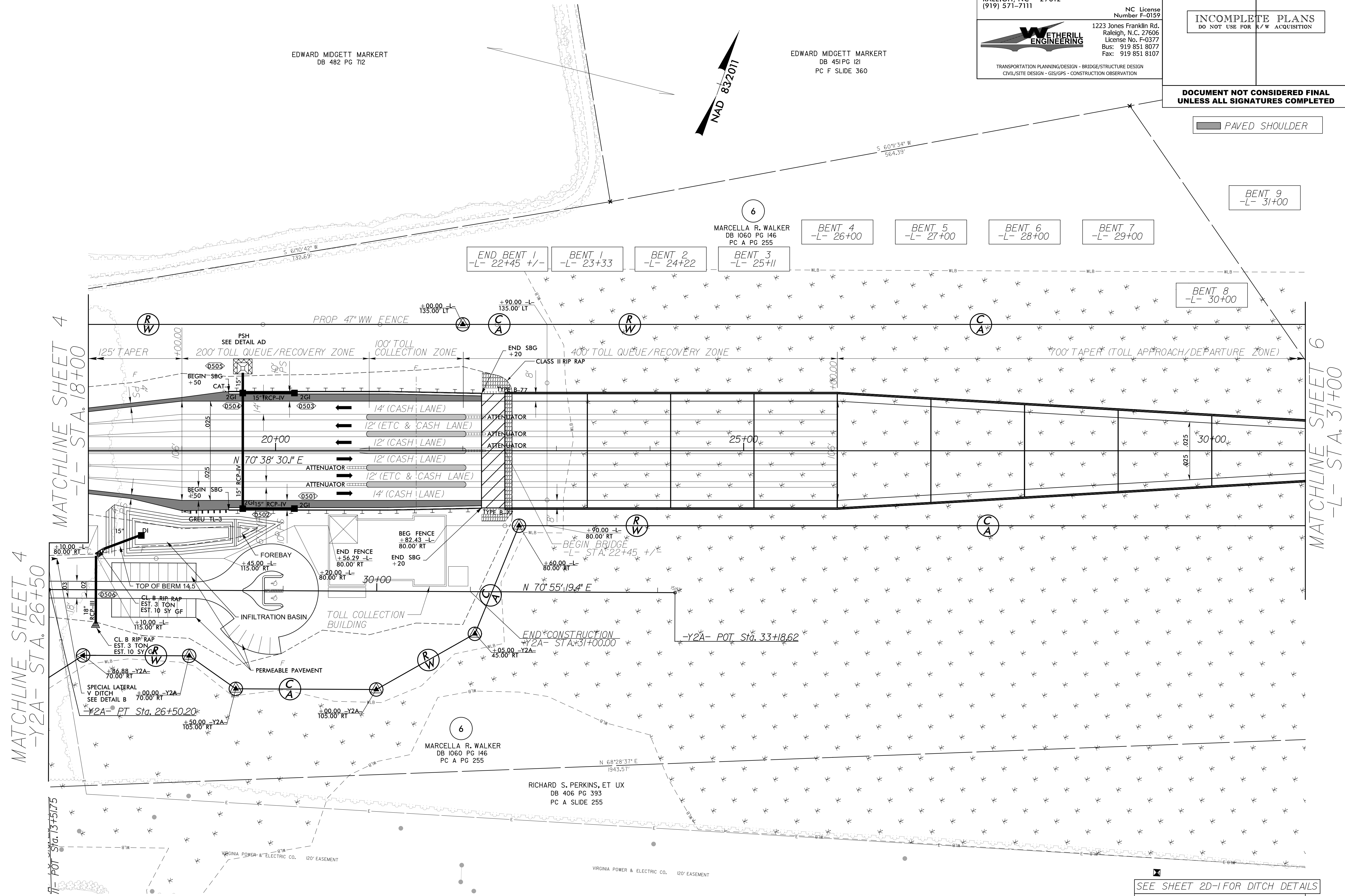
PROJECT REFERENCE NO. **R-2576** SHEET NO. **5**

ROADWAY DESIGN ENGINEER PAVEMENT DESIGN ENGINEER

**INCOMPLETE PLANS**  
DO NOT USE FOR R/W ACQUISITION

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

PAVED SHOULDER



MATCHLINE SHEET 4  
-L- STA. 18+00

MATCHLINE SHEET 4  
-Y2A- STA. 26+50

MATCHLINE SHEET 6  
-L- STA. 31+00

SEE SHEET 2D-1 FOR DITCH DETAILS  
SEE SHEET 31 FOR -L- PROFILE  
SEE SHEET 47 FOR -Y2A- PROFILE



6/27/99

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NC License  
Number F-0159



1223 Jones Franklin Rd.  
Raleigh, N.C. 27606  
License No. F-0377  
Bus: 919 851 8077  
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. SHEET NO.

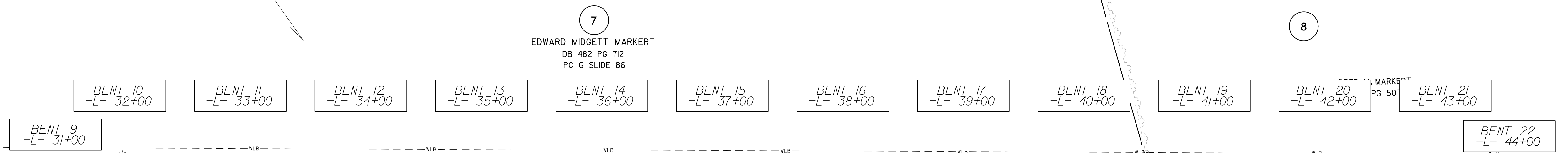
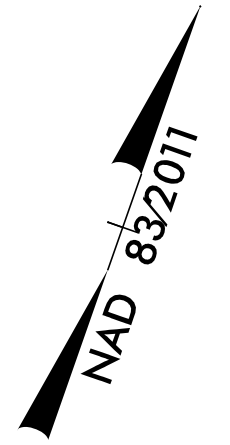
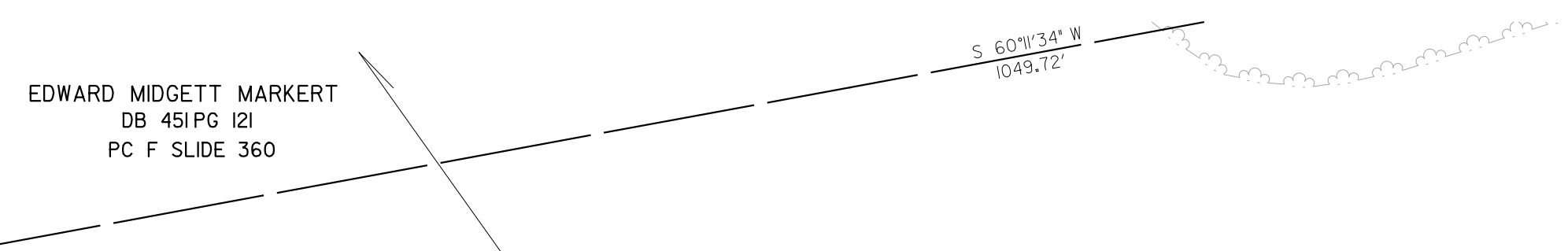
R-2576 6

ROADWAY DESIGN ENGINEER PAVEMENT DESIGN ENGINEER

**INCOMPLETE PLANS**  
DO NOT USE FOR R/W ACQUISITION

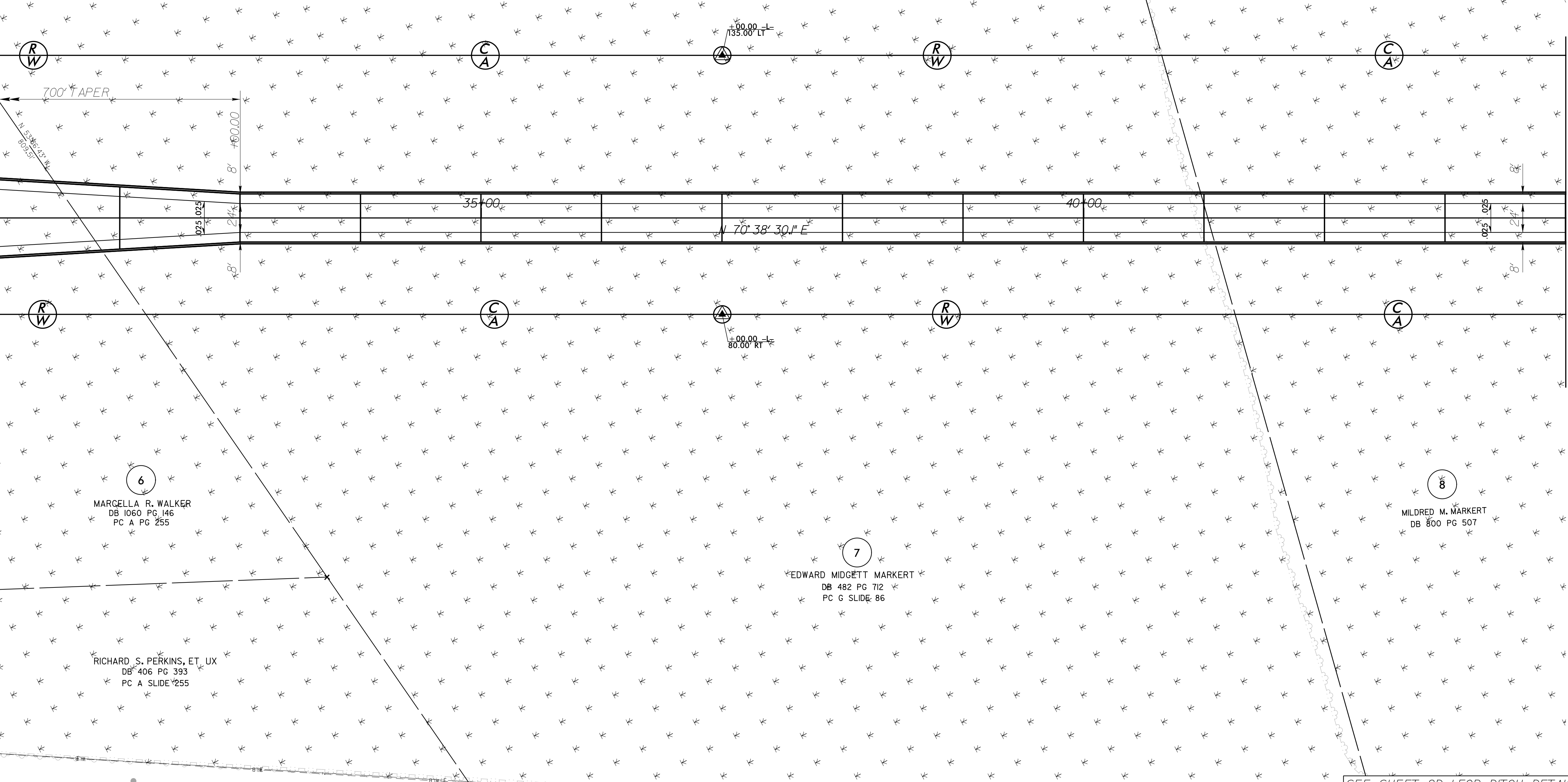
**DOCUMENT NOT CONSIDERED FINAL**  
**UNLESS ALL SIGNATURES COMPLETED**

PAVED SHOULDER



MATCHLINE SHEET 5  
-L- STA. 31+00

MATCHLINE SHEET 7  
-L- STA. 44+00



6  
MARCELLA R. WALKER  
DB 1060 PG 146  
PC A PG 255

RICHARD S. PERKINS, ET UX  
DB 406 PG 393  
PC A SLIDE 255

7  
EDWARD MIDGETT MARKERT  
DB 482 PG 712  
PC G SLIDE 86

8  
MILDRED M. MARKERT  
DB 800 PG 507

SEE SHEET 20-1 FOR DITCH DETAILS  
SEE SHEET 32 FOR -L- PROFILE

6/17/2024  
R0676-R04-psh06.dgn  
CIBKLEY

6/2/99

# LOCHNER

H. W. LOCHNER, INC.  
2840 PLAZA PLACE, SUITE 202  
RALEIGH, NC 27612  
(919) 571-7111

NC License  
Number F-0159



1223 Jones Franklin Rd.  
Raleigh, N.C. 27606  
License No. F-0377  
Bus: 919 851 8077  
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. SHEET NO.

R-2576

7

ROADWAY DESIGN  
ENGINEER

PAVEMENT DESIGN  
ENGINEER

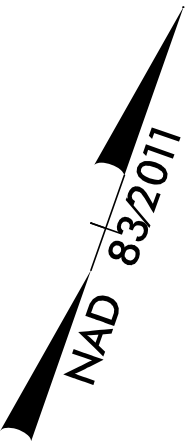
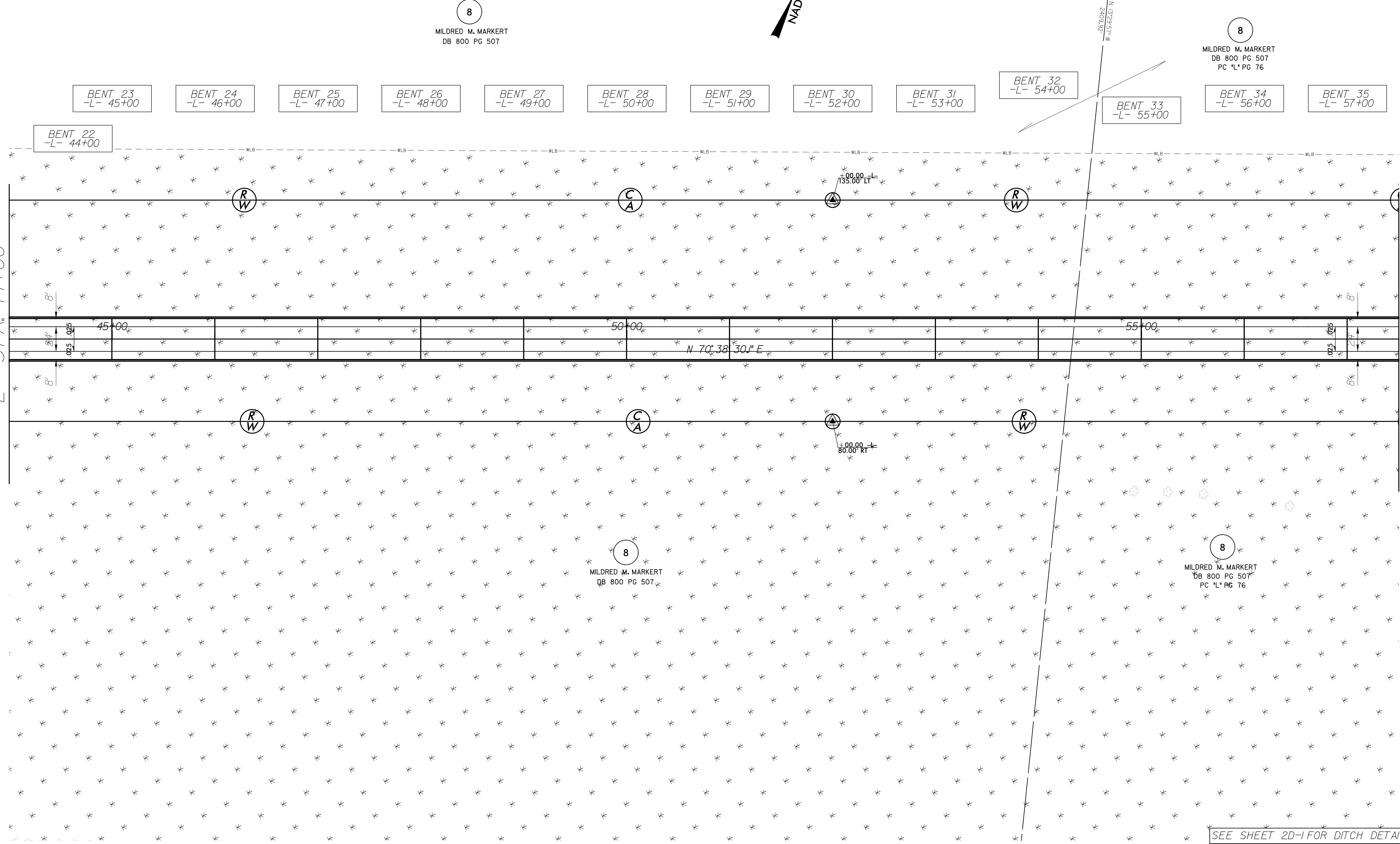
**INCOMPLETE PLANS**  
DO NOT USE FOR R/W ACQUISITION

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

PAVED SHOULDER

MATCHLINE SHEET 6  
-L- STA. 44+00

MATCHLINE SHEET 8  
-L- STA. 57+50



8  
MILDRED M. MARKERT  
DB 800 PG 507

8  
MILDRED M. MARKERT  
DB 800 PG 507  
PC \*L\* PG 76

BENT 22  
-L- 44+00

BENT 23  
-L- 45+00

BENT 24  
-L- 46+00

BENT 25  
-L- 47+00

BENT 26  
-L- 48+00

BENT 27  
-L- 49+00

BENT 28  
-L- 50+00

BENT 29  
-L- 51+00

BENT 30  
-L- 52+00

BENT 31  
-L- 53+00

BENT 32  
-L- 54+00

BENT 33  
-L- 55+00

BENT 34  
-L- 56+00

BENT 35  
-L- 57+00

6/17/2024  
R:\2024\6-17-24\6-17-24-rsh07.dgn  
C:\KELLY

SEE SHEET 2D-I FOR DITCH DETAILS  
SEE SHEET 32 FOR -L- PROFILE

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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. R-2576 SHEET NO. 8

ROADWAY DESIGN ENGINEER PAVEMENT DESIGN ENGINEER

**INCOMPLETE PLANS**  
DO NOT USE FOR R/W ACQUISITION

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

PAVED SHOULDER

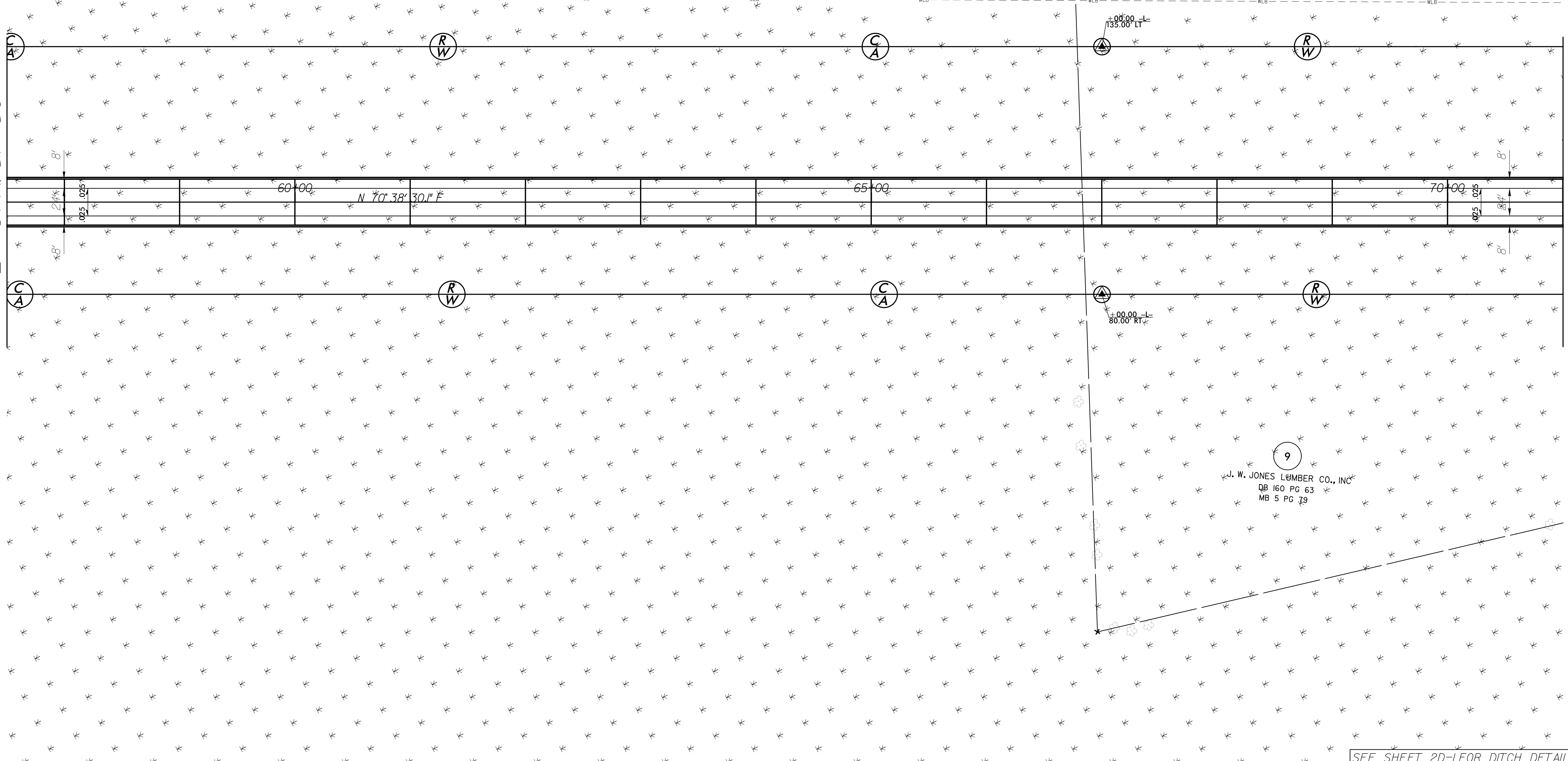
8  
MILDRED M. MARKERT  
DB 800 PG 507  
PC "L" PG 76



MATCHLINE SHEET 7  
-L- STA. 57+50

MATCHLINE SHEET 9  
-L- STA. 71+00

- BENT 36 -L- 58+00
- BENT 37 -L- 59+00
- BENT 38 -L- 60+00
- BENT 39 -L- 61+00
- BENT 40 -L- 62+00
- BENT 41 -L- 63+00
- BENT 42 -L- 64+00
- BENT 43 -L- 65+00
- BENT 44 -L- 66+00
- BENT 45 -L- 67+00
- BENT 46 -L- 68+00
- BENT 47 -L- 69+00
- BENT 48 -L- 70+00
- BENT 49 -L- 71+00



9  
L. W. JONES LUMBER CO., INC.  
DB 160 PG 63  
MB 5 PG 79

SEE SHEET 2D-1 FOR DITCH DETAILS  
SEE SHEET 33 FOR -L- PROFILE

6/2/99

# LOCHNER

H. W. LOCHNER, INC.  
2840 PLAZA PLACE, SUITE 202  
RALEIGH, NC 27612  
(919) 571-7111

NC License  
Number F-0159



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Raleigh, N.C. 27606  
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Bus: 919 851 8077  
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.

R-2576

SHEET NO.

9

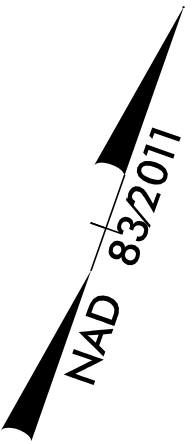
ROADWAY DESIGN  
ENGINEER

PAVEMENT DESIGN  
ENGINEER

**INCOMPLETE PLANS**  
DO NOT USE FOR R/W ACQUISITION

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

PAVED SHOULDER



9

J. W. JONES LUMBER CO., INC  
DB 160 PG 63  
MB 5 PG 79

BENT 50  
-L- 72+00

BENT 51  
-L- 73+00

BENT 52  
-L- 74+00

BENT 53  
-L- 75+00

BENT 54  
-L- 76+00

BENT 55  
-L- 77+00

BENT 56  
-L- 78+00

BENT 57  
-L- 79+00

BENT 58  
-L- 80+00

BENT 59  
-L- 81+00

BENT 60  
-L- 82+00

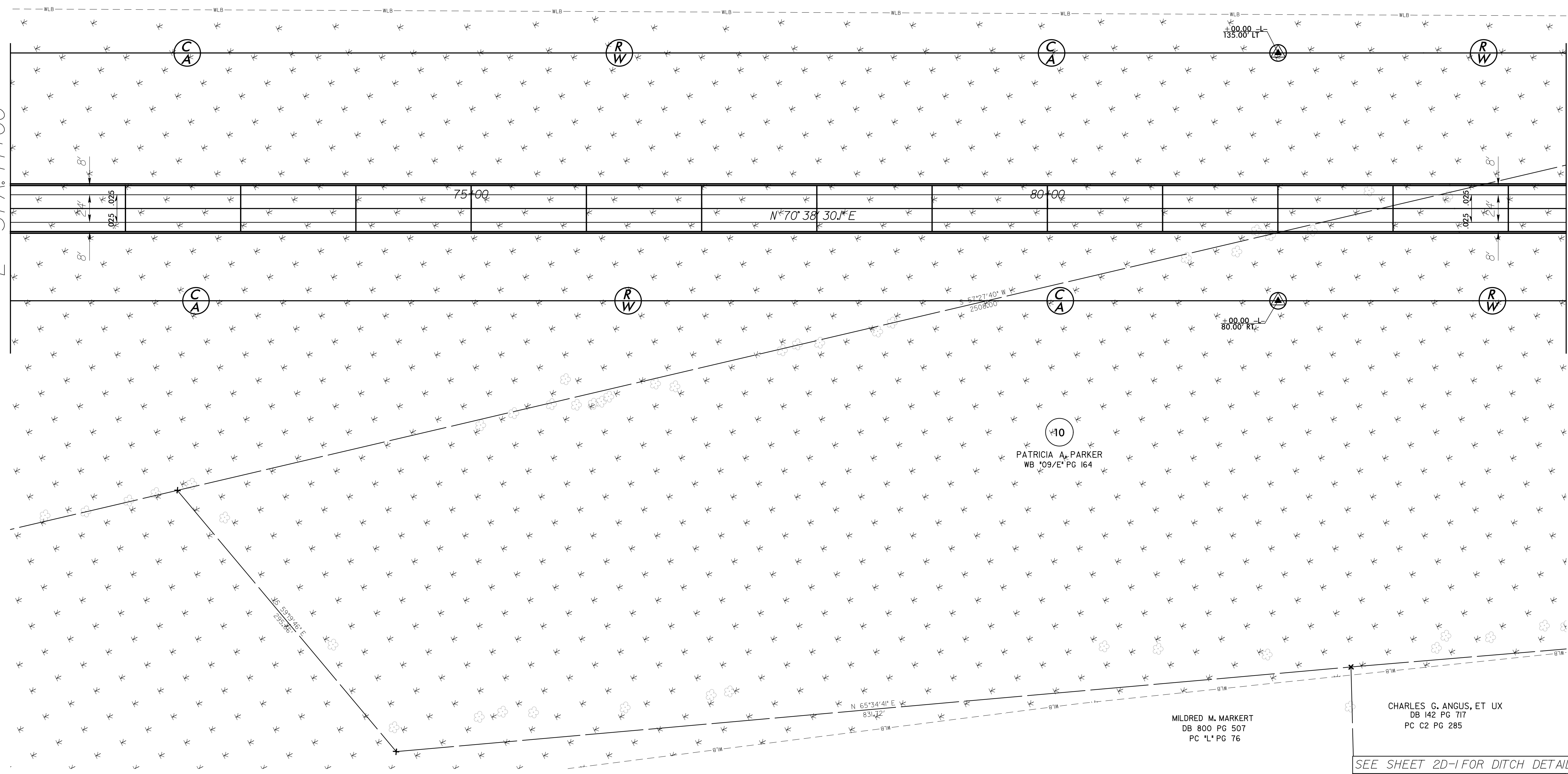
BENT 61  
-L- 83+00

BENT 62  
-L- 84+00

BENT 49  
-L- 71+00

MATCHLINE SHEET 8  
-L- STA. 71+00

MATCHLINE SHEET 10  
-L- STA. 84+50



10  
PATRICIA A. PARKER  
WB '09/E' PG 164

MILDRED M. MARKERT  
DB 800 PG 507  
PC 'L' PG 76

CHARLES G. ANGUS, ET UX  
DB 142 PG 717  
PC C2 PG 285

SEE SHEET 2D-1 FOR DITCH DETAILS  
SEE SHEET 33 FOR -L- PROFILE

6/17/2024  
R6876-FDU-psh09.dgn  
C. COCKELEY

6/2/99

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2840 PLAZA PLACE, SUITE 202  
RALEIGH, NC 27612  
(919) 571-7111

NC License  
Number F-0159



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Raleigh, N.C. 27606  
License No. F-0377  
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Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. SHEET NO.

R-2576 10

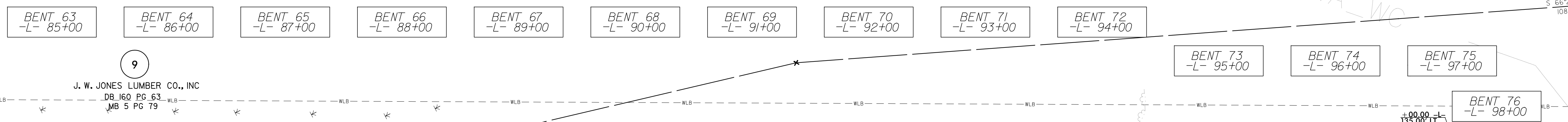
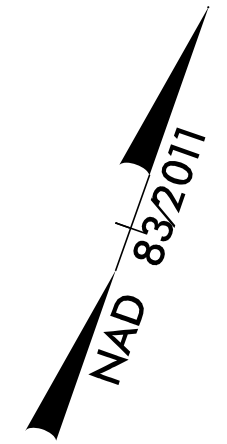
ROADWAY DESIGN  
ENGINEER

PAVEMENT DESIGN  
ENGINEER

**INCOMPLETE PLANS**  
DO NOT USE FOR R/W ACQUISITION

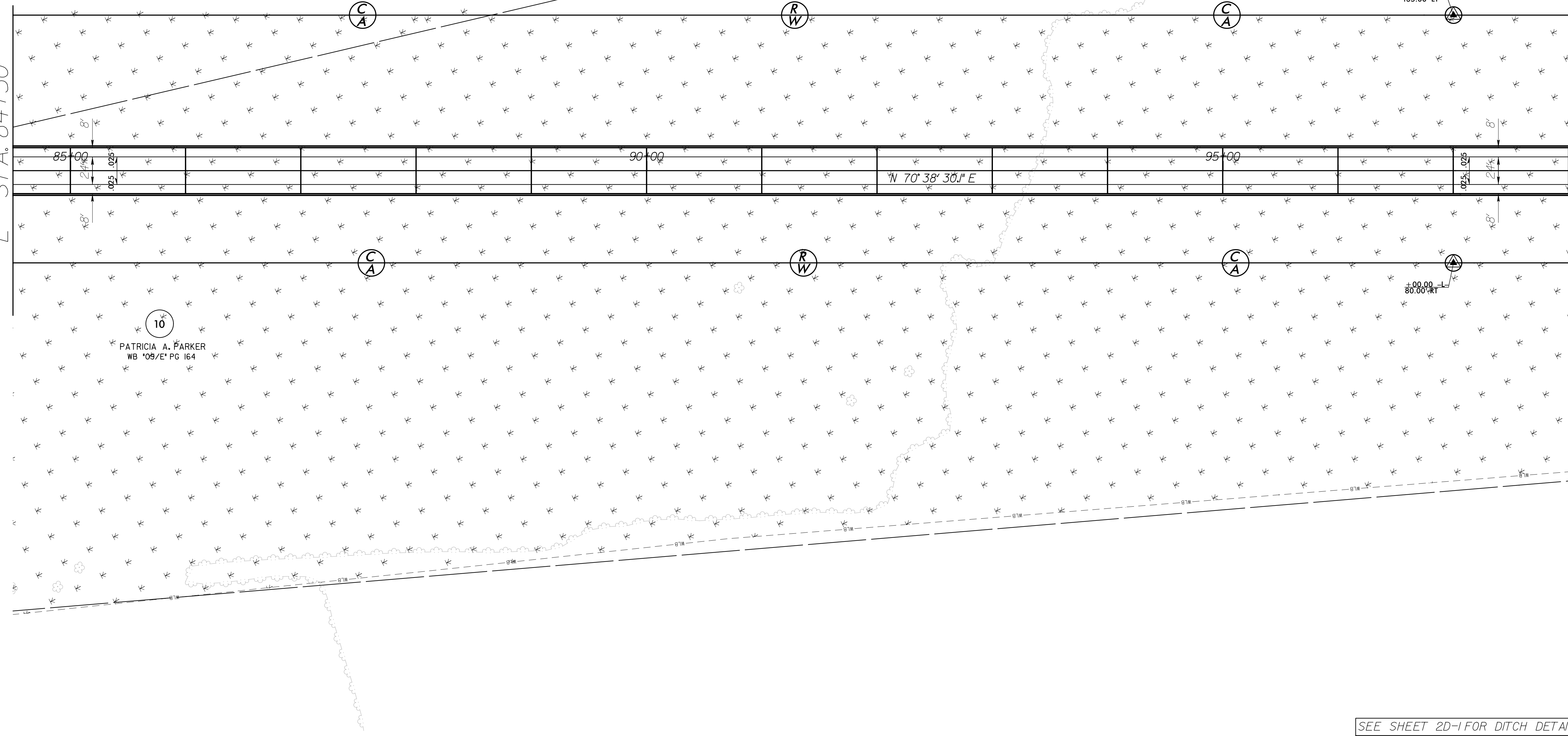
**DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED**

PAVED SHOULDER



MATCHLINE SHEET 9  
-L- STA. 84+50

MATCHLINE SHEET 11  
-L- STA. 98+00



9  
J. W. JONES LUMBER CO., INC  
DB 160 PG 63  
MB 5 PG 79

10  
PATRICIA A. PARKER  
WB '09/E' PC 164

SEE SHEET 2D-I FOR DITCH DETAILS  
SEE SHEET 34 FOR -L- PROFILE

6/17/2024  
R0676\_R04\_psh10.dgn  
C. COCKELEY

# LOCHNER

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NC License  
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1223 Jones Franklin Rd.  
Raleigh, N.C. 27606  
License No. F-0377  
Bus: 919 851 8077  
Fax: 919 851 8107

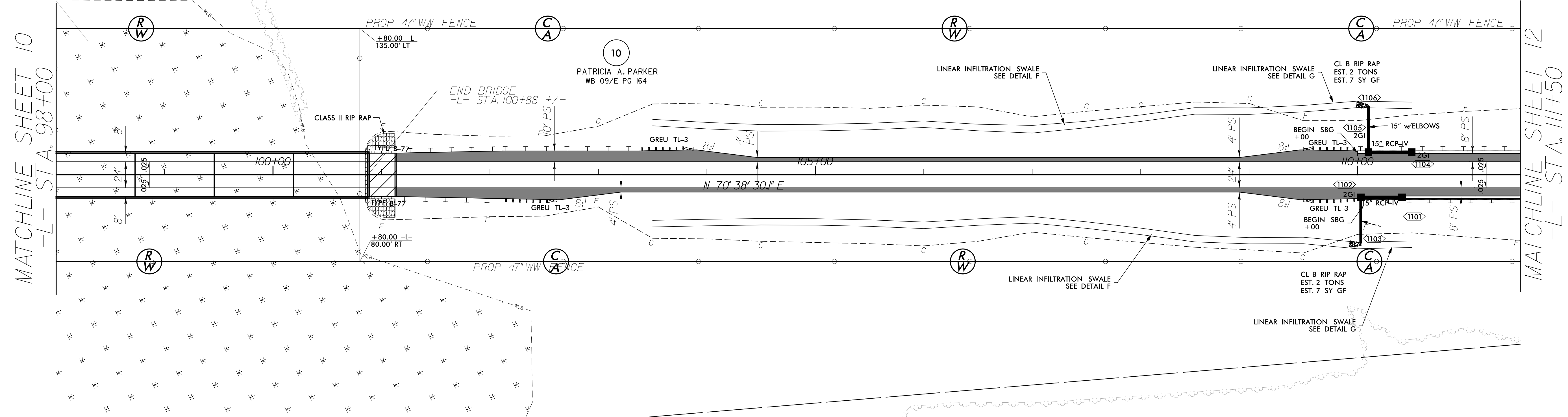
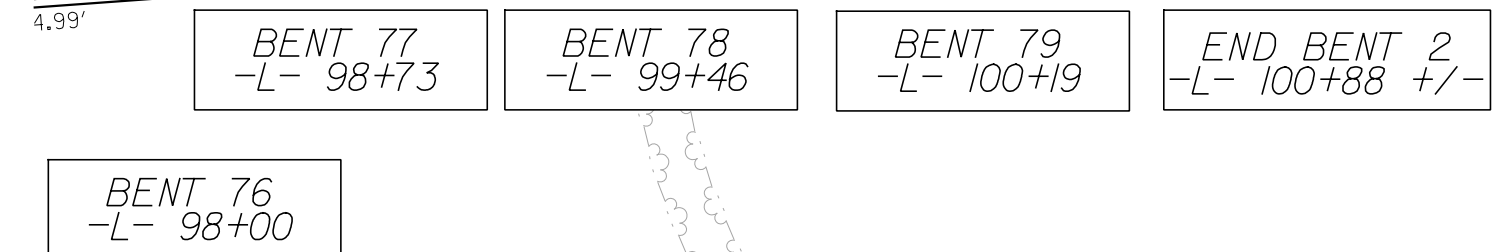
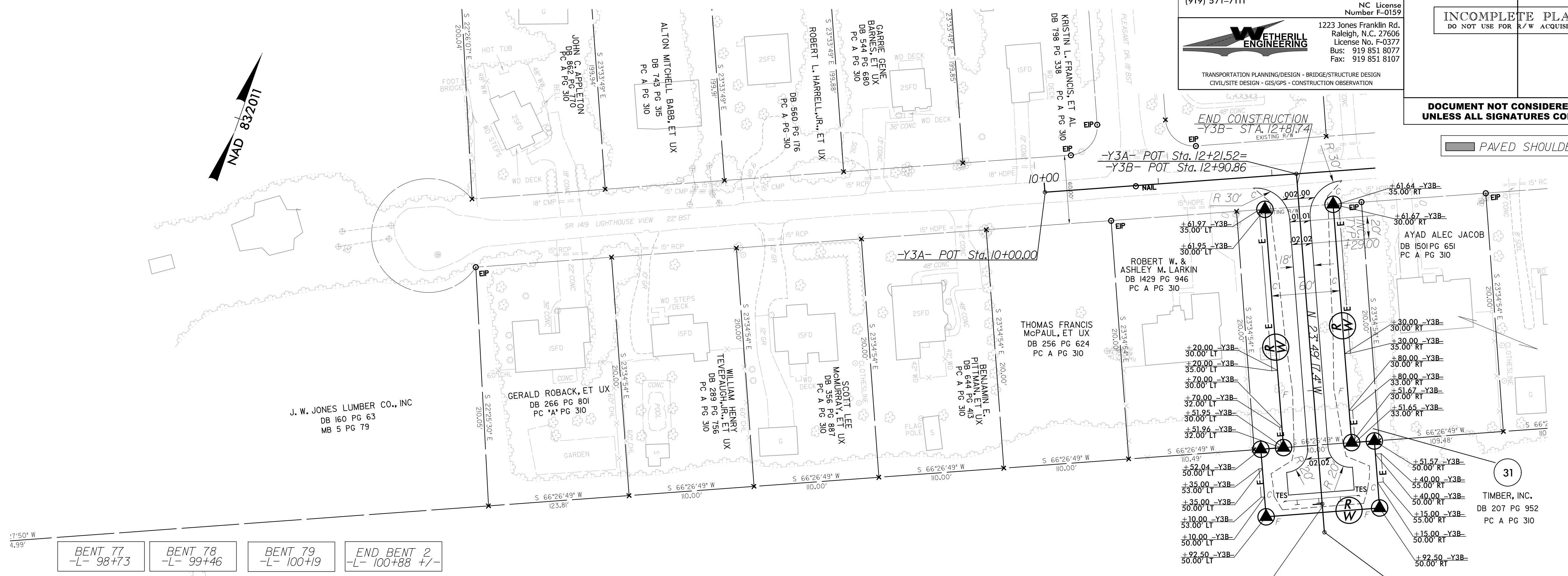
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

ROADWAY DESIGN ENGINEER PAVEMENT DESIGN ENGINEER

**INCOMPLETE PLANS**  
DO NOT USE FOR R/W ACQUISITION

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

PAVED SHOULDER



SEE SHEET 2D-I FOR DITCH DETAILS  
SEE SHEET 47 FOR -Y3B- PROFILE  
SEE SHEET 34 FOR -L- PROFILE

6/2/99

# LOCHNER

H. W. LOCHNER, INC.  
2840 PLAZA PLACE, SUITE 202  
RALEIGH, NC 27612  
(919) 571-7111

NC License  
Number F-0159



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Raleigh, N.C. 27606  
License No. F-0377  
Bus: 919 851 8077  
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. SHEET NO.

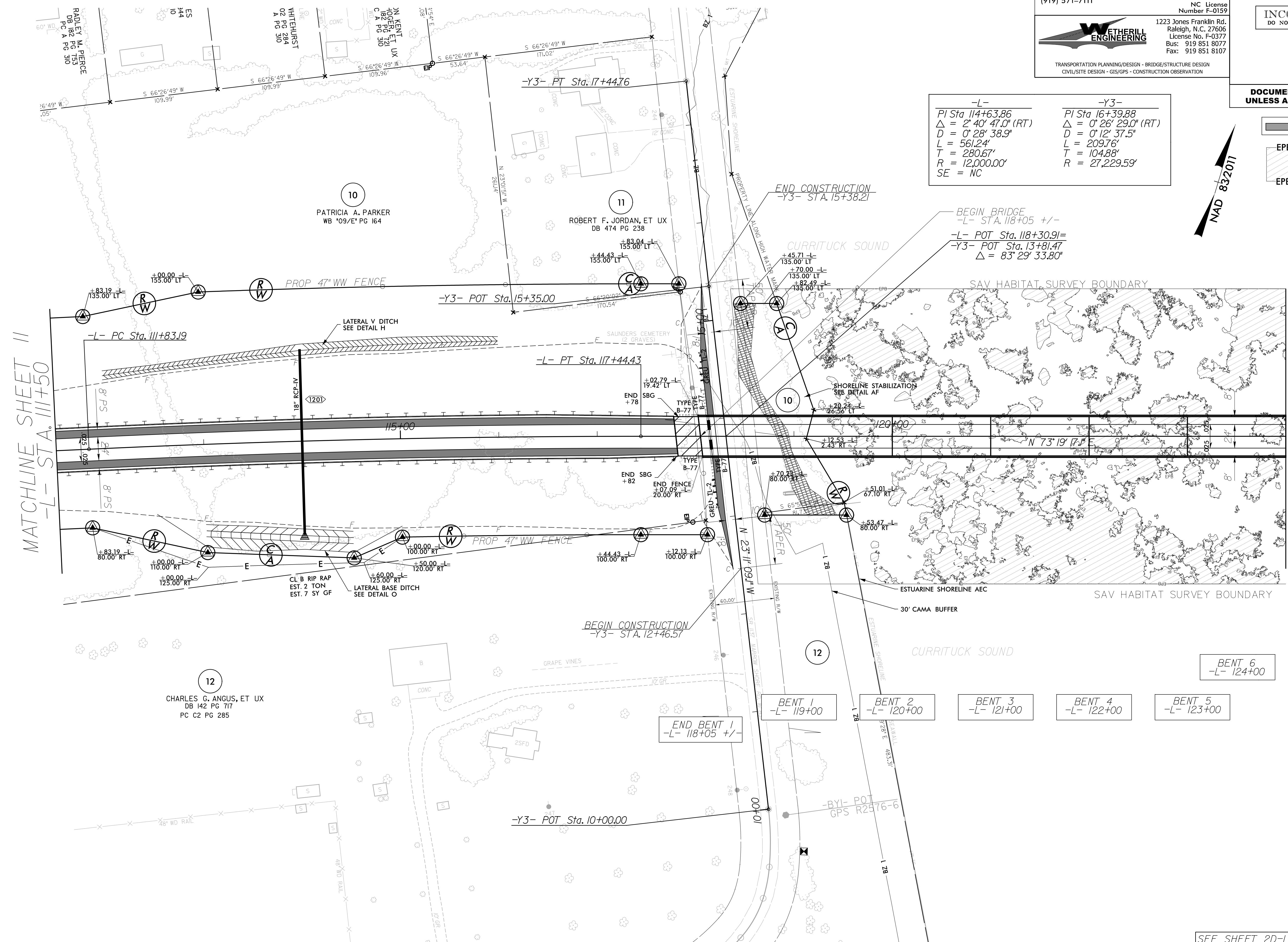
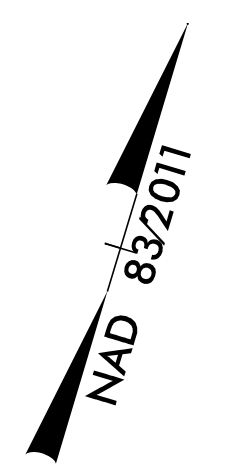
R-2576 12

ROADWAY DESIGN ENGINEER PAVEMENT DESIGN ENGINEER

**INCOMPLETE PLANS**  
DO NOT USE FOR R/W ACQUISITION

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

-L-	-Y3-
PI Sta 114+63.86	PI Sta 16+39.88
$\Delta = 2^{\circ} 40' 47.0''$ (RT)	$\Delta = 0^{\circ} 26' 29.0''$ (RT)
D = 0' 28' 38.9"	D = 0' 12' 37.5"
L = 561.24'	L = 209.76'
T = 280.67'	T = 104.88'
R = 12,000.00'	R = 27,229.59'
SE = NC	



MATCHLINE SHEET 11  
-L- STA. 111+50

MATCHLINE SHEET 13A  
-L- STA. 124+00

BENT 6  
-L- 124+00

END BENT 1  
-L- 118+05 +/-

BENT 1  
-L- 119+00

BENT 2  
-L- 120+00

BENT 3  
-L- 121+00

BENT 4  
-L- 122+00

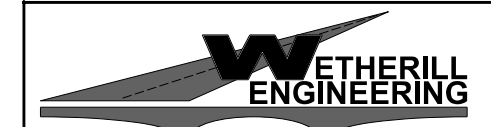
BENT 5  
-L- 123+00

SEE SHEET 2D-1 FOR DITCH DETAILS  
SEE SHEET 35 FOR -L- PROFILE  
SEE SHEET 47 FOR -Y3- PROFILE

6/17/2024  
R2576-12-101-psht12.dgn  
C. COCKELEY

# LOCHNER

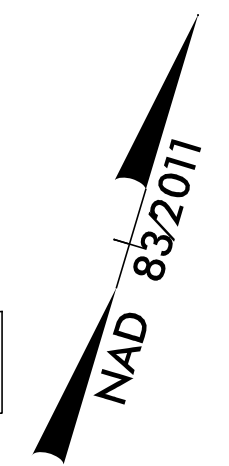
H. W. LOCHNER, INC.  
2840 PLAZA PLACE, SUITE 202  
RALEIGH, NC 27612  
(919) 571-7111



TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. R-2576	SHEET NO. 13A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>DOCUMENT NOT CONSIDERED FINAL</b> UNLESS ALL SIGNATURES COMPLETED	

EPB SAV HABITAT

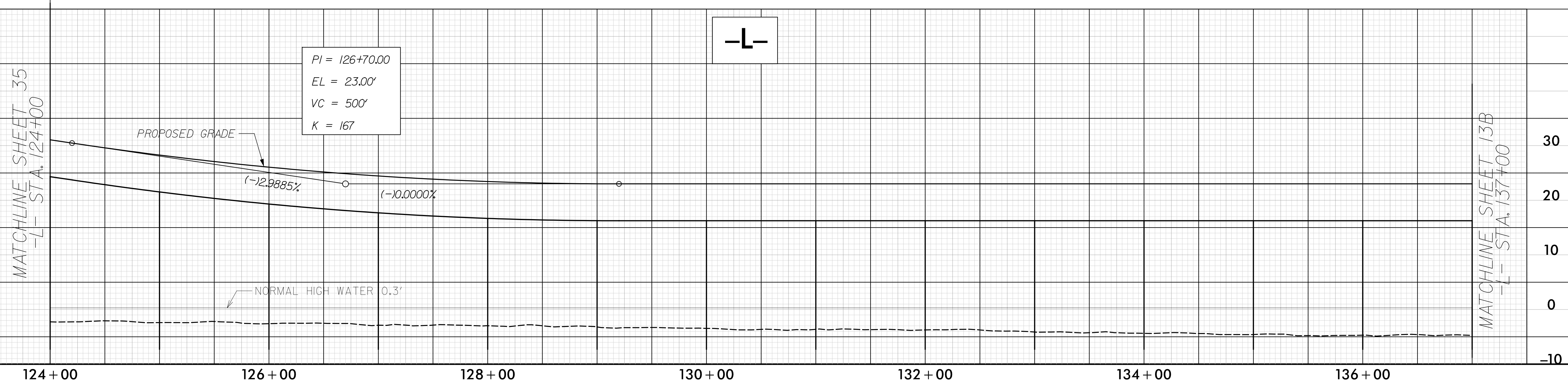
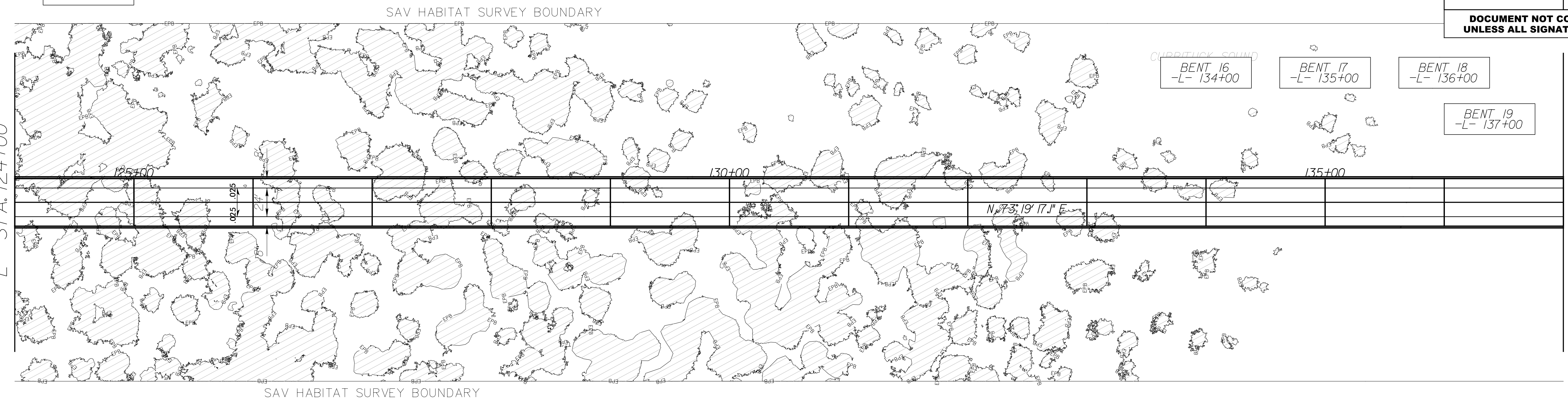


- BENT 7  
-L- 125+00
- BENT 8  
-L- 126+00
- BENT 9  
-L- 127+00
- BENT 10  
-L- 128+00
- BENT 11  
-L- 129+00
- BENT 12  
-L- 130+00
- BENT 13  
-L- 131+00
- BENT 14  
-L- 132+00
- BENT 15  
-L- 133+00

BENT 6  
-L- 124+00

MATCHLINE SHEET 12  
-L- STA. 124+00

MATCHLINE SHEET 13B  
-L- STA. 137+00

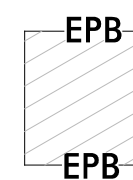


6/17/2024  
R2576-CP-esh13A.dgn  
SYDNEY



6/17/2024

6/17/2024  
R2576.dgn  
LOCHNER



SAV HABITAT

# LOCHNER

H. W. LOCHNER, INC.  
2840 PLAZA PLACE, SUITE 202  
RALEIGH, NC 27612  
(919) 571-7111

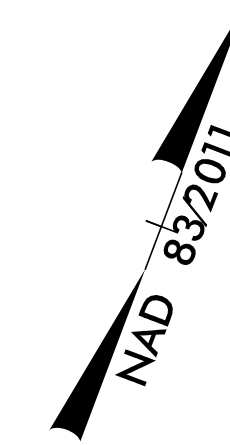
NC License  
Number F-0159



1223 Jones Franklin Rd.  
Raleigh, N.C. 27606  
License No. F-0377  
Bus: 919 851 8077  
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

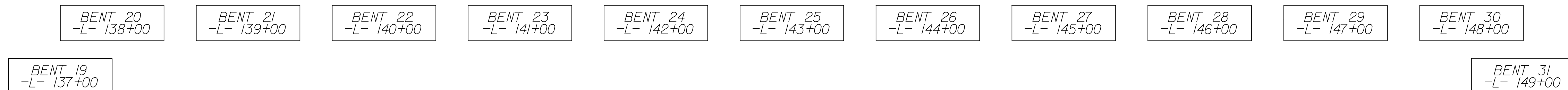
PROJECT REFERENCE NO. R-2576	SHEET NO. 13B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>DOCUMENT NOT CONSIDERED FINAL</b> UNLESS ALL SIGNATURES COMPLETED	



CURRITUCK SOUND

SAV HABITAT SURVEY BOUNDARY

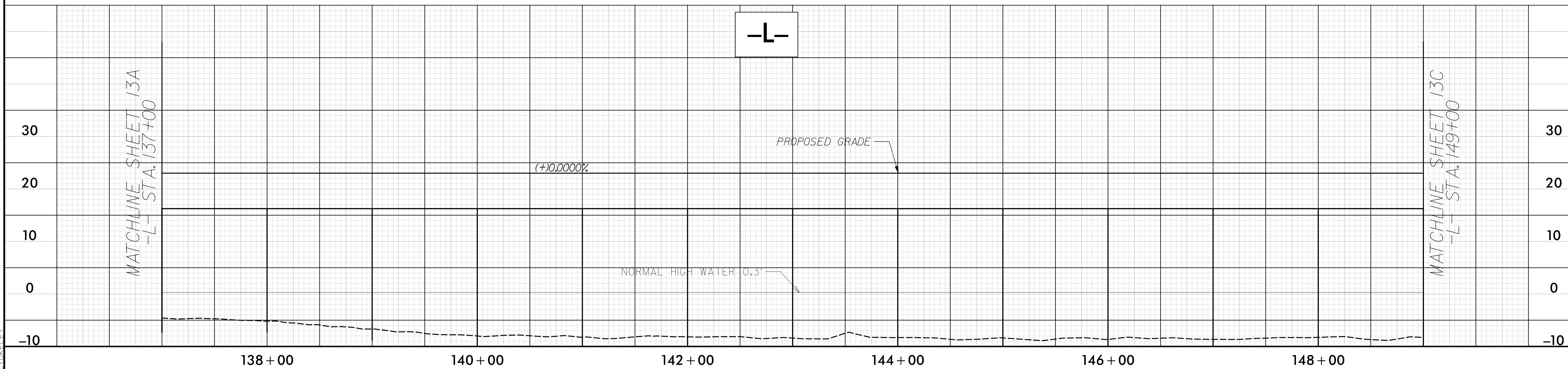
MATCHLINE SHEET 13A  
-L- STA. 137+00



MATCHLINE SHEET 13C  
-L- STA. 149+00

CURRITUCK SOUND

SAV HABITAT SURVEY BOUNDARY



8/17/24



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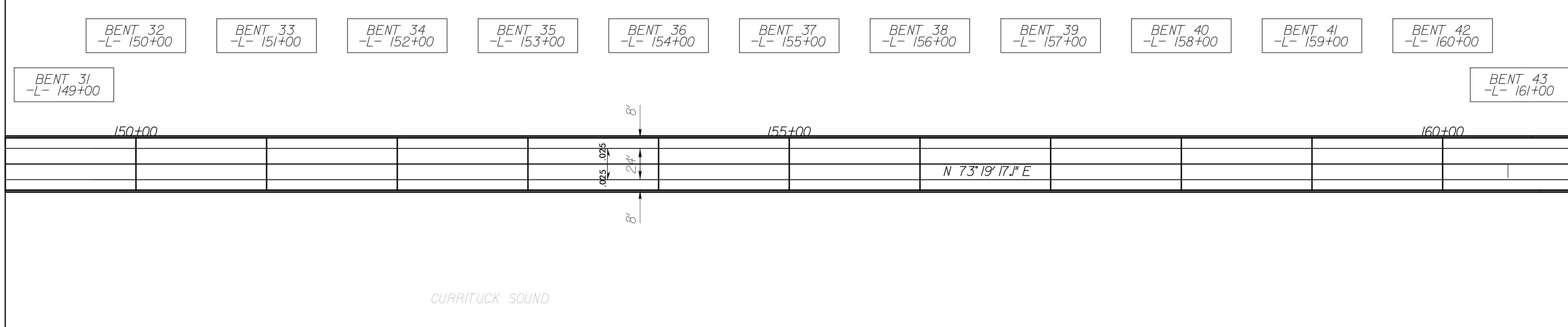
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. R-2576	SHEET NO. 13C
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

CURRITUCK SOUND

SAV HABITAT SURVEY BOUNDARY

MATCHLINE SHEET 13B  
-L- STA. 149+00

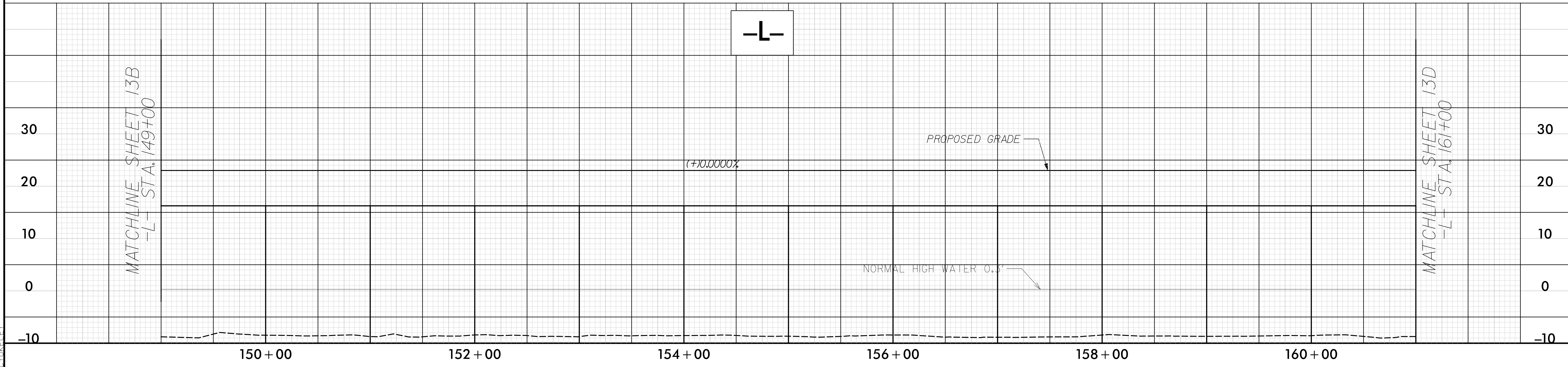


CURRITUCK SOUND

SAV HABITAT SURVEY BOUNDARY

MATCHLINE SHEET 13D  
-L- STA. 161+00

8/17/2024  
R2576.dwg  
SYDNEY



6/17/2024

6/17/2024  
R-2576-CP-eshi13D.dgn  
SYDNEY



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Raleigh, N.C. 27606  
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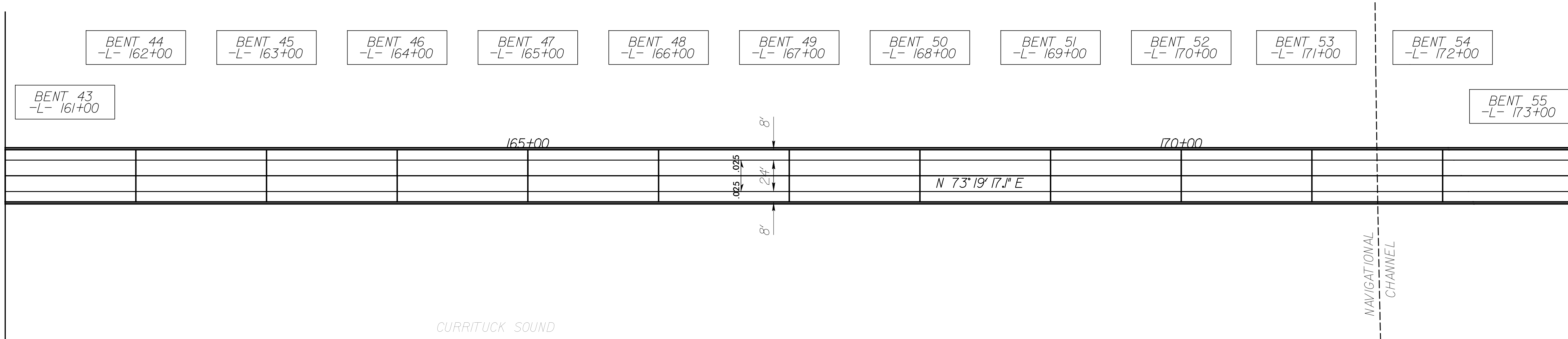
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. R-2576	SHEET NO. 13D
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>DOCUMENT NOT CONSIDERED FINAL</b> UNLESS ALL SIGNATURES COMPLETED	

CURRITUCK SOUND

SAV HABITAT SURVEY BOUNDARY

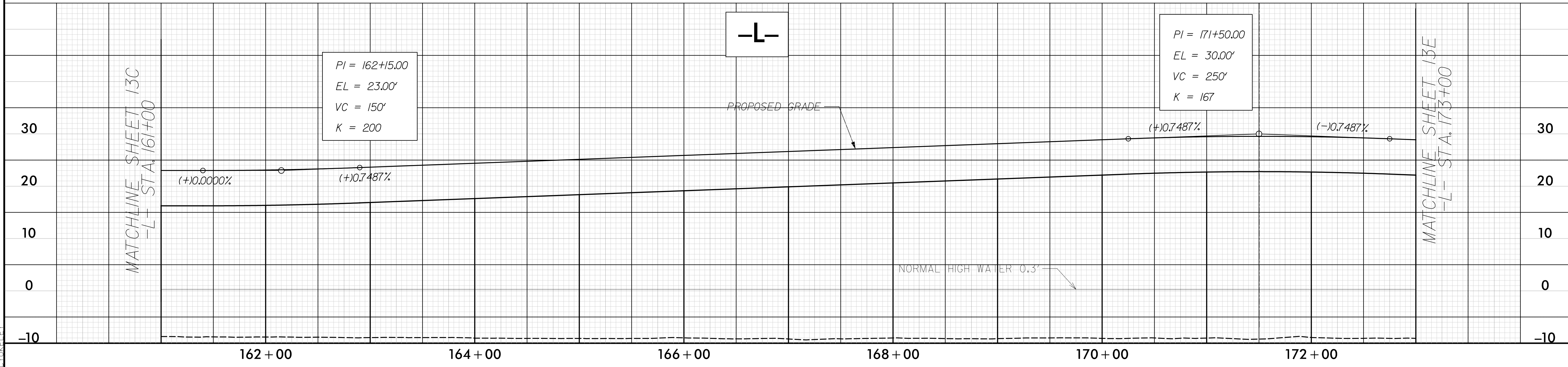
MATCHLINE SHEET 13C  
-L- STA. 161+00



MATCHLINE SHEET 13E  
-L- STA. 173+00

CURRITUCK SOUND

SAV HABITAT SURVEY BOUNDARY



MATCHLINE SHEET 13C  
-L- STA. 161+00

MATCHLINE SHEET 13E  
-L- STA. 173+00

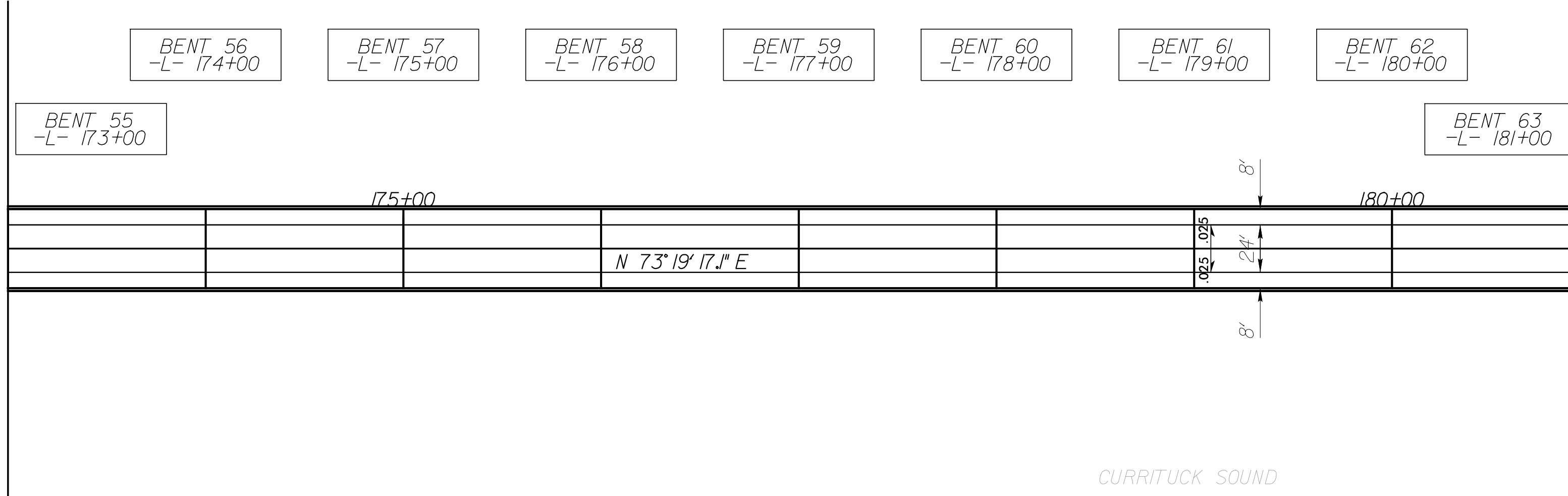
B:\1724



CURRITUCK SOUND

SAV HABITAT SURVEY BOUNDARY

MATCHLINE SHEET 13D  
-L- STA. 173+00



CURRITUCK SOUND

SAV HABITAT SURVEY BOUNDARY

**LOCHNER**

H. W. LOCHNER, INC.  
2840 PLAZA PLACE, SUITE 202  
RALEIGH, NC 27612  
(919) 571-7111

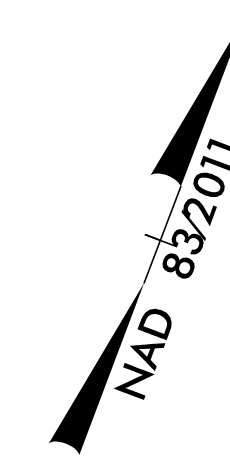
NC License  
Number F-0159



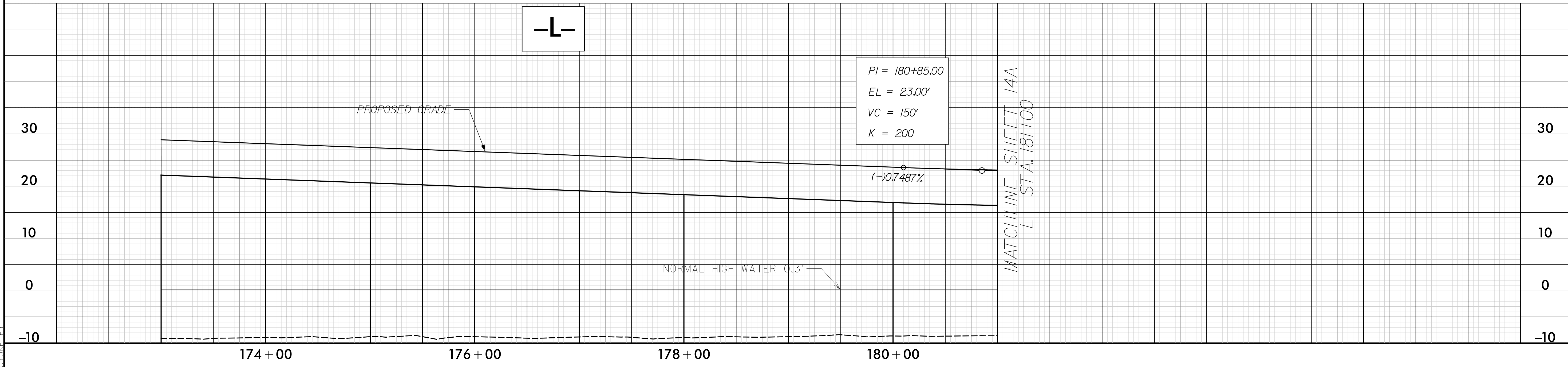
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Raleigh, N.C. 27606  
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Bus: 919 851 8077  
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. R-2576	SHEET NO. 13E
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>DOCUMENT NOT CONSIDERED FINAL</b> UNLESS ALL SIGNATURES COMPLETED	



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SYDNEY

EPB SAV HABITAT EPB

NAD 83 2011

**LOCHNER**  
 H. W. LOCHNER, INC.  
 2840 PLAZA PLACE, SUITE 202  
 RALEIGH, NC 27612  
 (919) 571-7111

NC License Number F-0159

1223 Jones Franklin Rd.  
 Raleigh, N.C. 27606  
 License No. F-0377  
 Bus: 919 851 8077  
 Fax: 919 851 8107

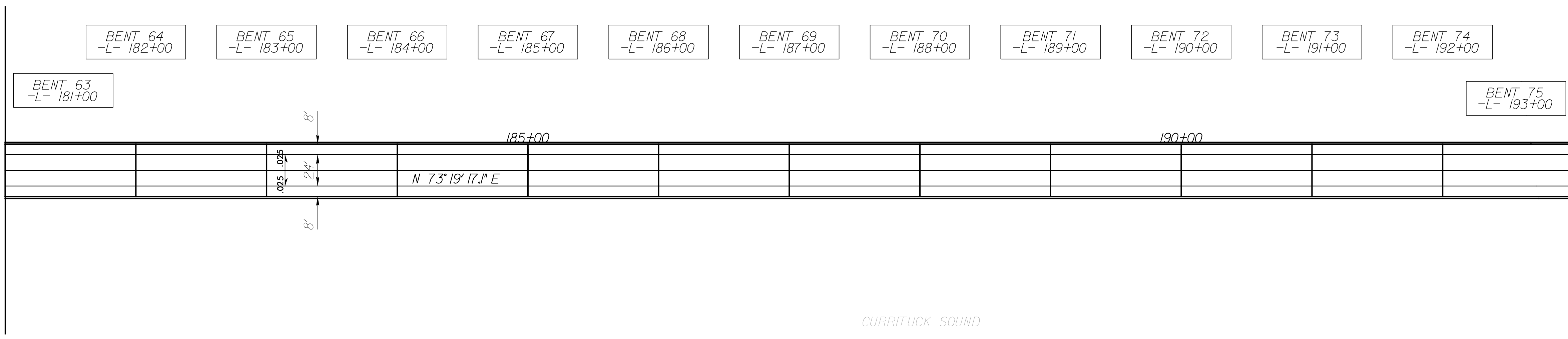
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 TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. R-2576	SHEET NO. 14A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>DOCUMENT NOT CONSIDERED FINAL</b> <b>UNLESS ALL SIGNATURES COMPLETED</b>	

CURRITUCK SOUND

SAV HABITAT SURVEY BOUNDARY

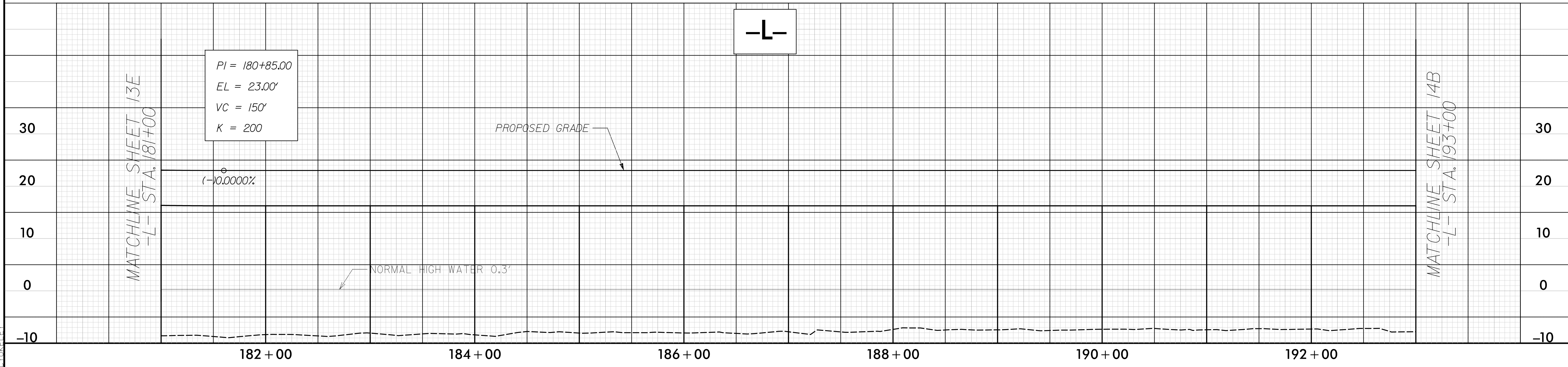
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MATCHLINE SHEET 14B  
-L- STA. 193+00

CURRITUCK SOUND

SAV HABITAT SURVEY BOUNDARY

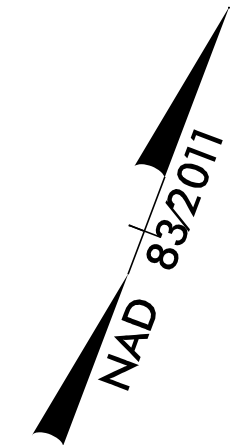


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MATCHLINE SHEET 14B  
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SYDNEY



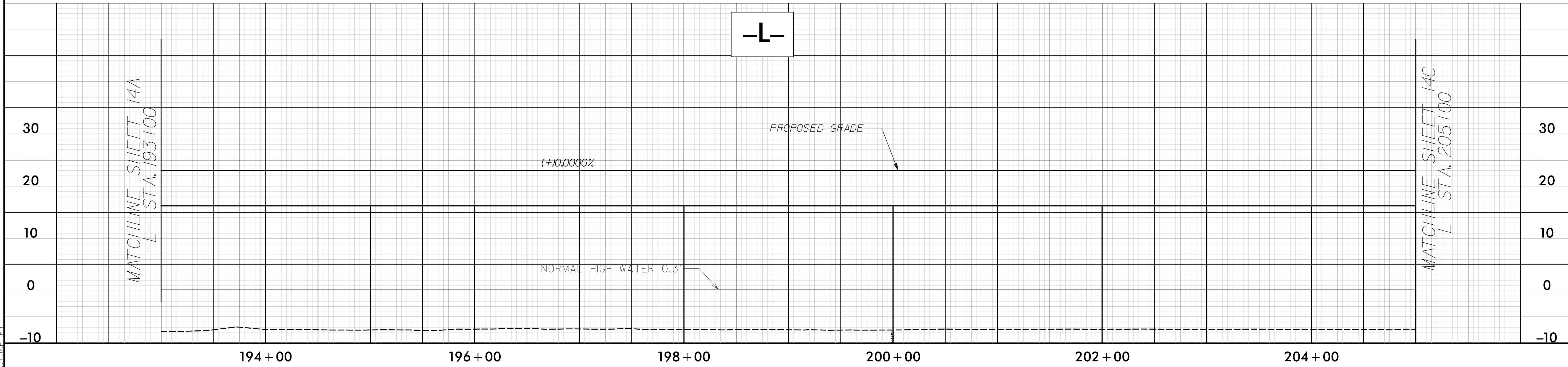
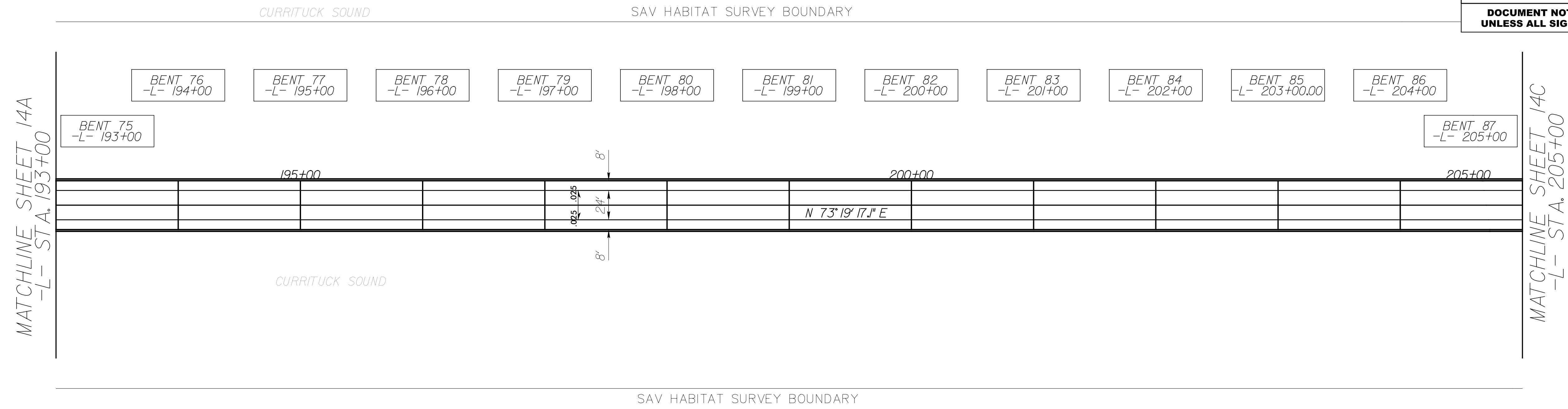
**LOCHNER**  
 H. W. LOCHNER, INC.  
 2840 PLAZA PLACE, SUITE 202  
 RALEIGH, NC 27612  
 (919) 571-7111

NC License  
 Number F-0159

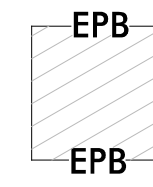
1223 Jones Franklin Rd.  
 Raleigh, N.C. 27606  
 License No. F-0377  
 Bus: 919 851 8077  
 Fax: 919 851 8107

**WETHERILL ENGINEERING**  
 TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. R-2576	SHEET NO. 14B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>DOCUMENT NOT CONSIDERED FINAL</b> UNLESS ALL SIGNATURES COMPLETED	



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Fax: 919 851 8107

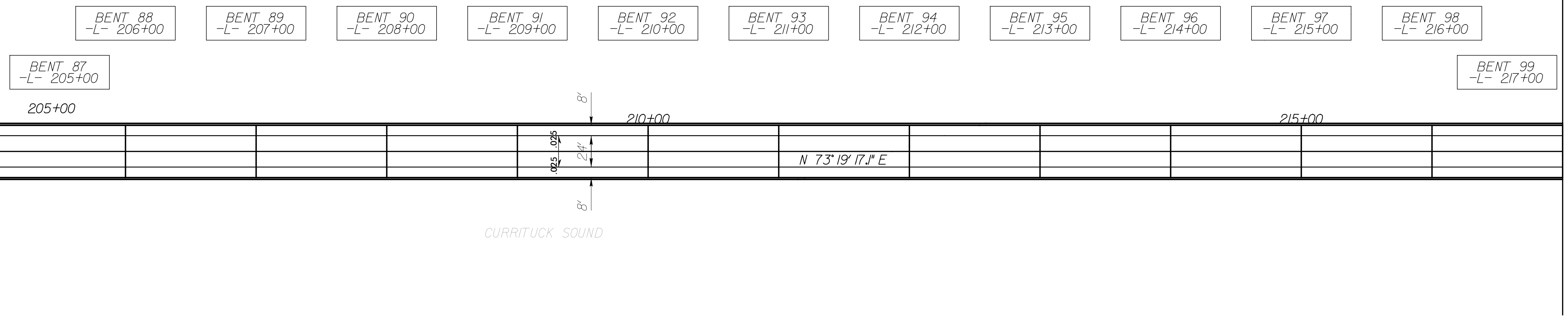
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CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. R-2576	SHEET NO. 14C
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>DOCUMENT NOT CONSIDERED FINAL</b> UNLESS ALL SIGNATURES COMPLETED	

CURRITUCK SOUND

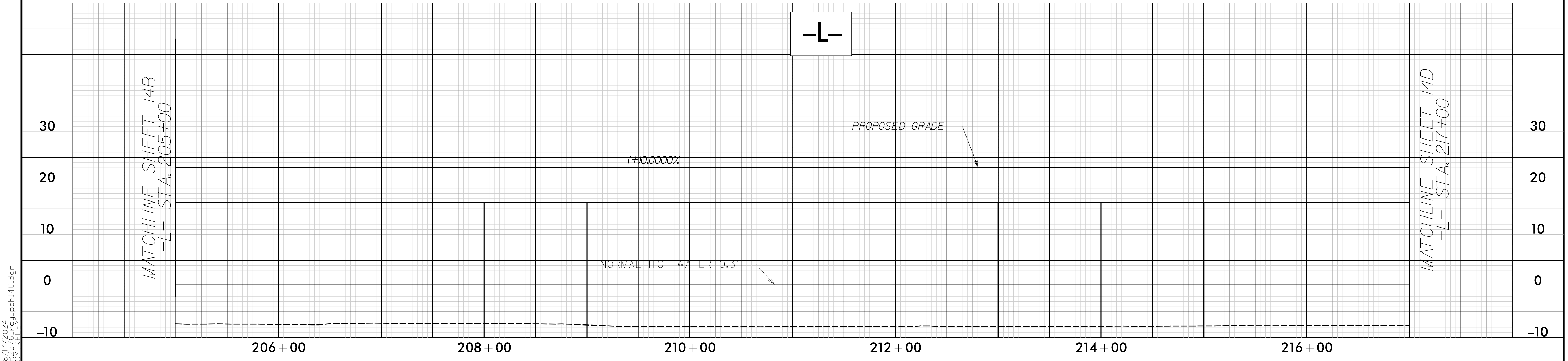
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MATCHLINE SHEET 14D  
-L- STA. 217+00

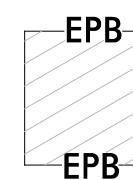
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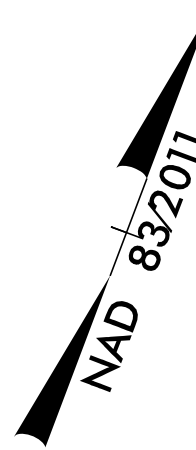
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SYDNEY

6/17/2024

6/17/2024  
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SYDNEY



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NC License  
Number F-0159

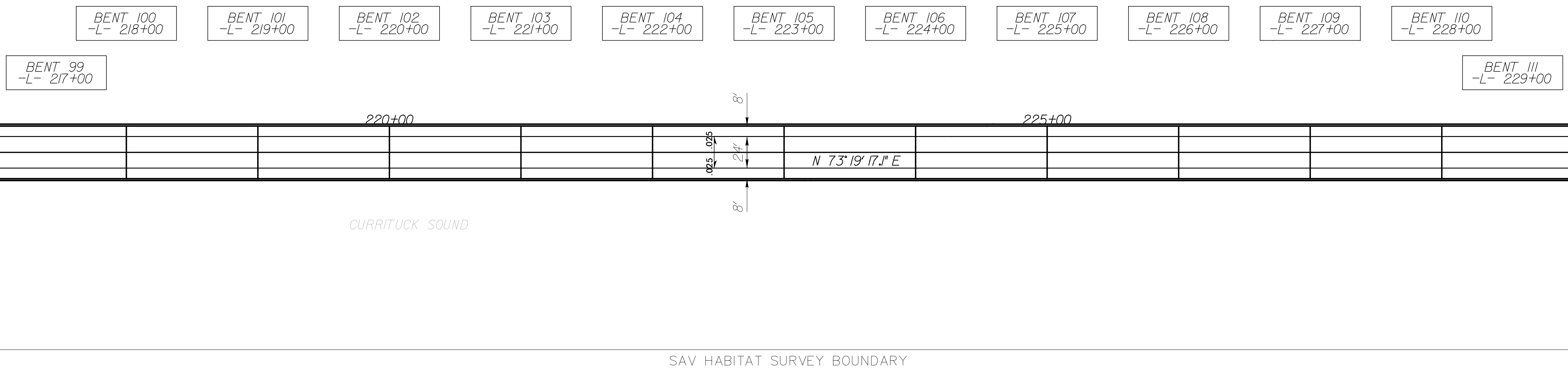


1223 Jones Franklin Rd.  
Raleigh, N.C. 27606  
License No. F-0377  
Bus: 919 851 8077  
Fax: 919 851 8107

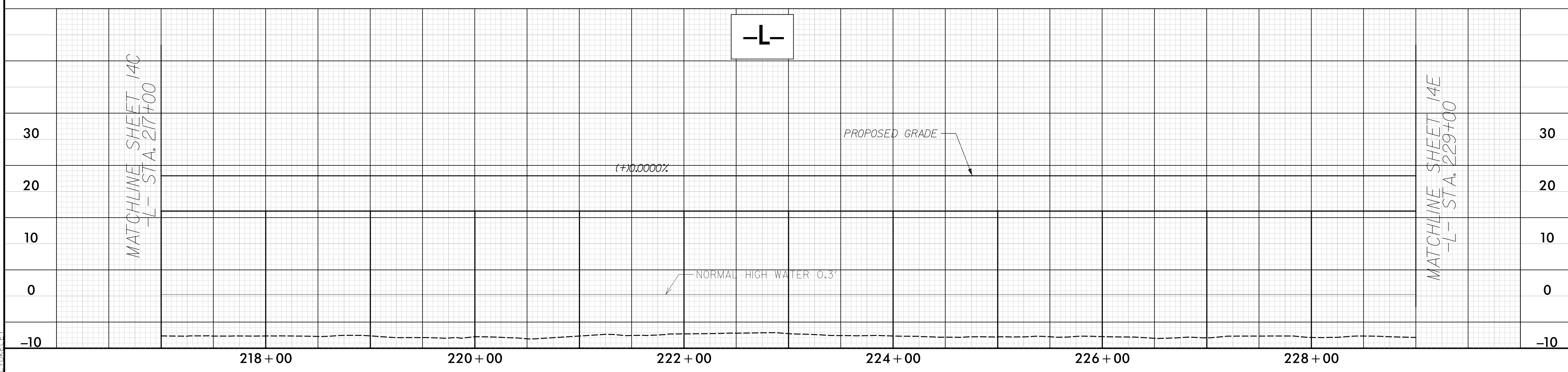
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. R-2576	SHEET NO. 14D
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>DOCUMENT NOT CONSIDERED FINAL</b> UNLESS ALL SIGNATURES COMPLETED	

MATCHLINE SHEET 14C  
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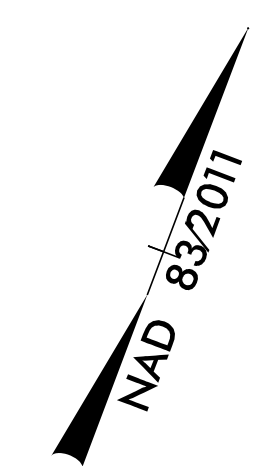
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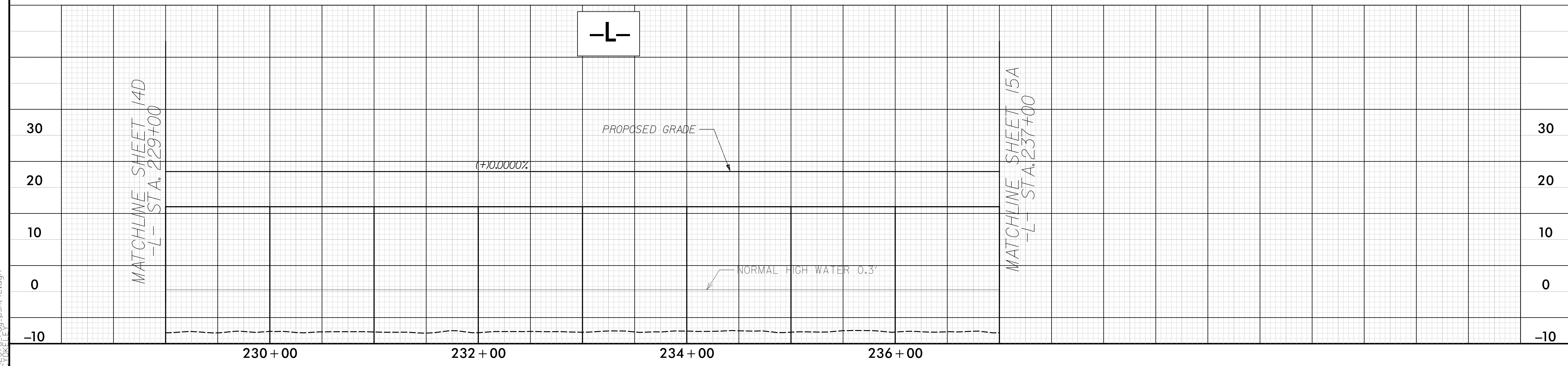
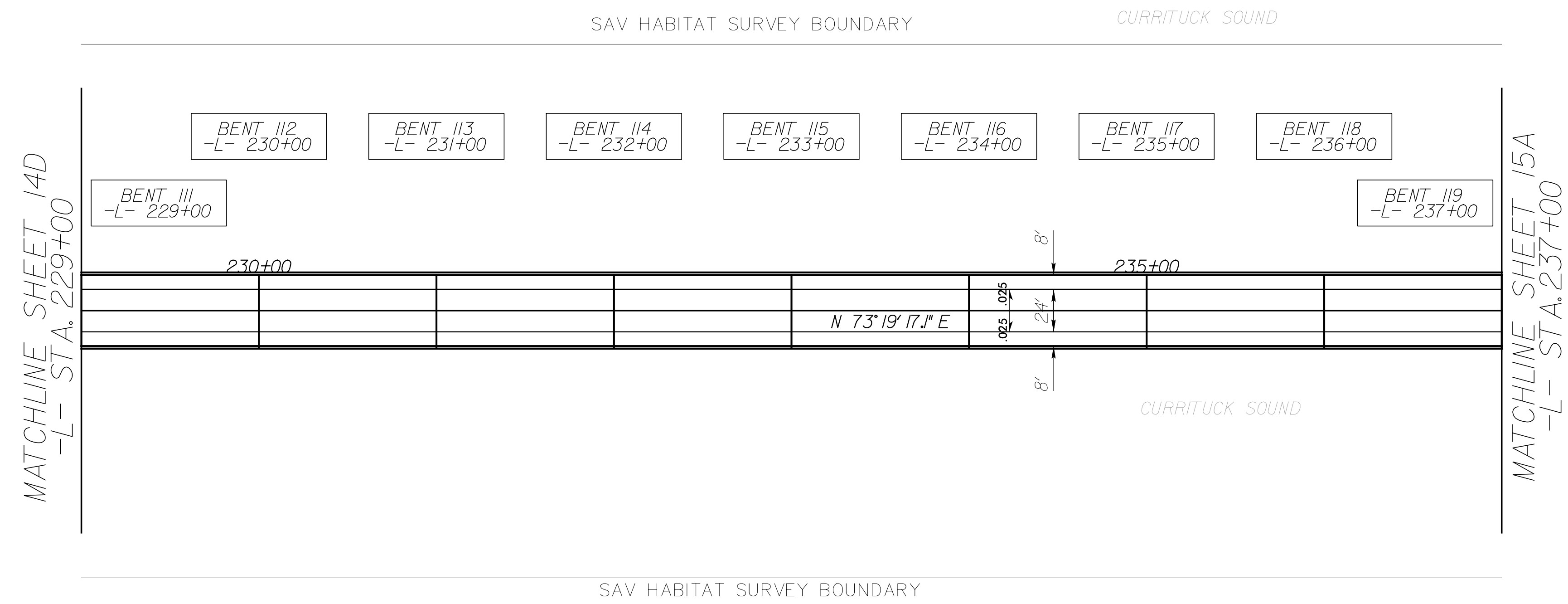
**LOCHNER**  
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 Fax: 919 851 8107

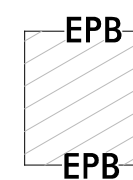
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 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. R-2576	SHEET NO. 14E
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>DOCUMENT NOT CONSIDERED FINAL</b> UNLESS ALL SIGNATURES COMPLETED	

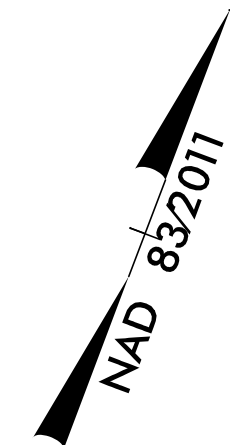


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R2576  
SYDNEY



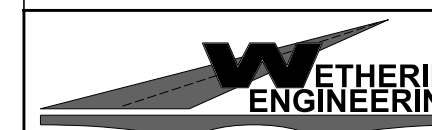
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Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

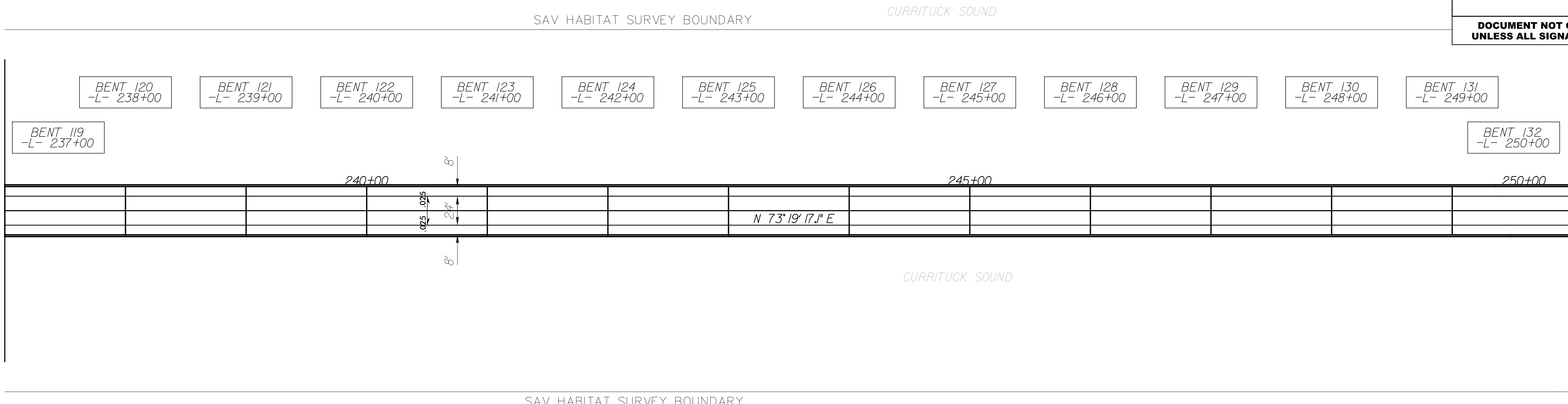
PROJECT REFERENCE NO. SHEET NO.  
R-2576 15A

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**

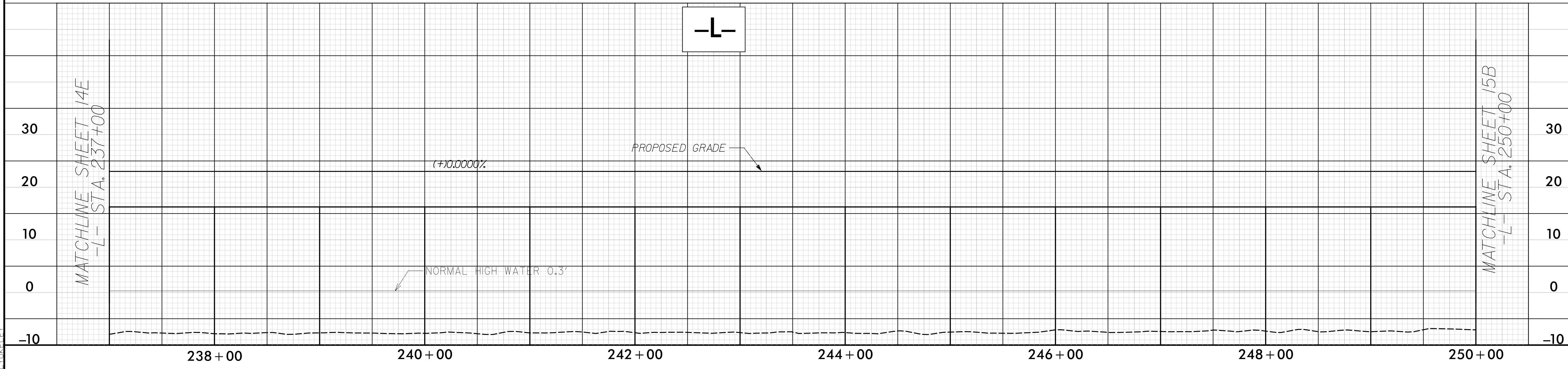
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-L- STA. 237+00

MATCHLINE SHEET 15B  
-L- STA. 250+00



MATCHLINE SHEET 14E  
-L- STA. 237+00

MATCHLINE SHEET 15B  
-L- STA. 250+00



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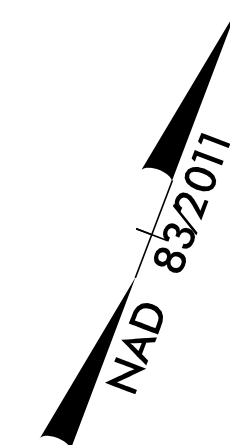
NC License  
Number F-0159



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Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

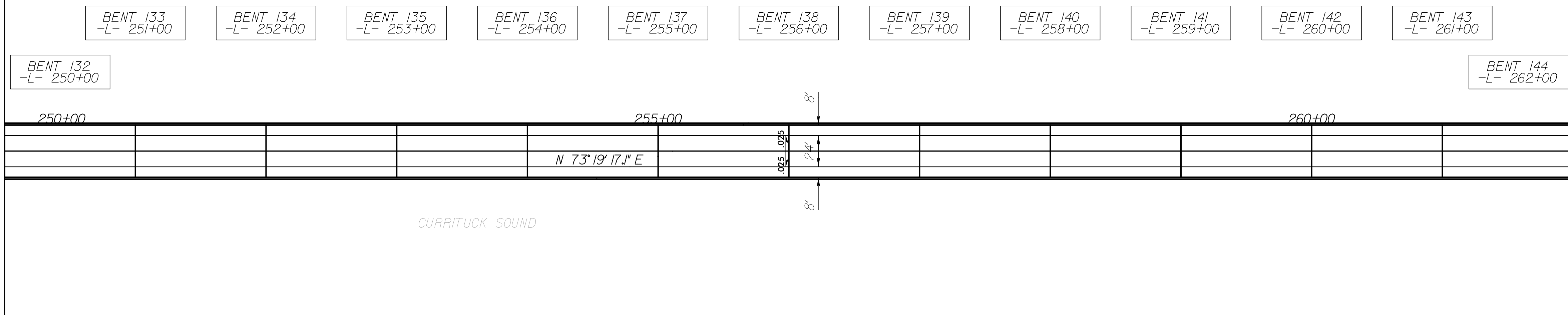
PROJECT REFERENCE NO. R-2576	SHEET NO. 15B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>DOCUMENT NOT CONSIDERED FINAL</b> UNLESS ALL SIGNATURES COMPLETED	



CURRITUCK SOUND

SAV HABITAT SURVEY BOUNDARY

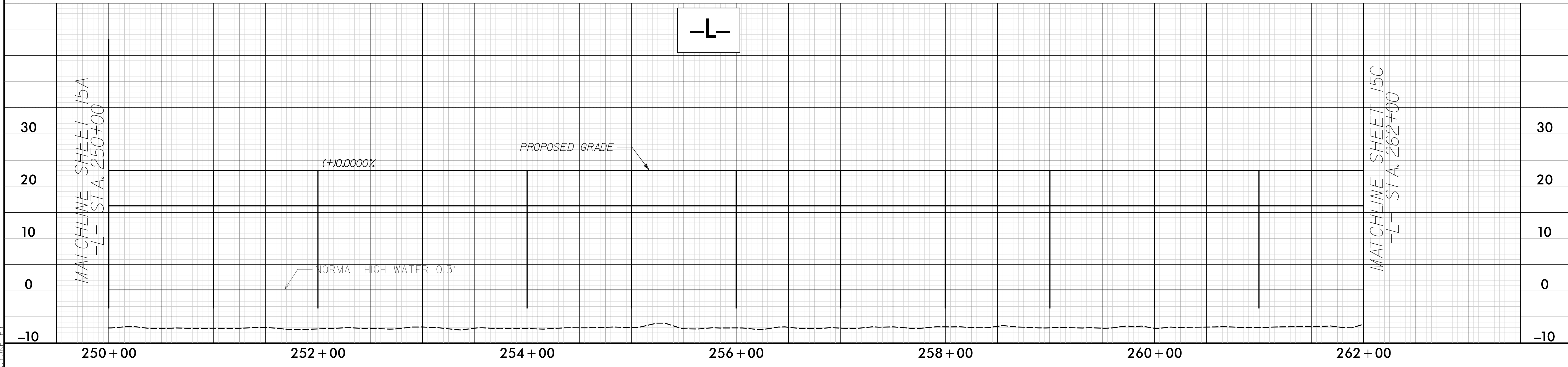
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-L- STA. 250+00



MATCHLINE SHEET 15C  
-L- STA. 262+00

SAV HABITAT SURVEY BOUNDARY

6/17/2024  
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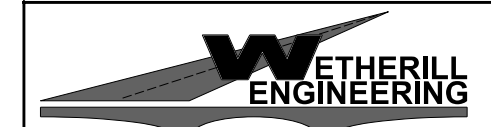


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# LOCHNER

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2840 PLAZA PLACE, SUITE 202  
RALEIGH, NC 27612  
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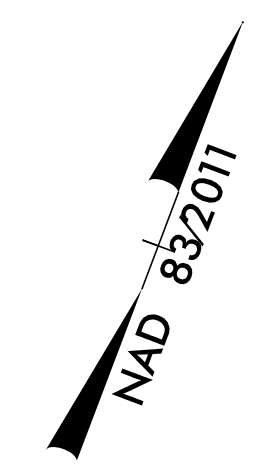
NC License  
Number F-0159



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Raleigh, N.C. 27606  
License No. F-0377  
Bus: 919 851 8077  
Fax: 919 851 8107

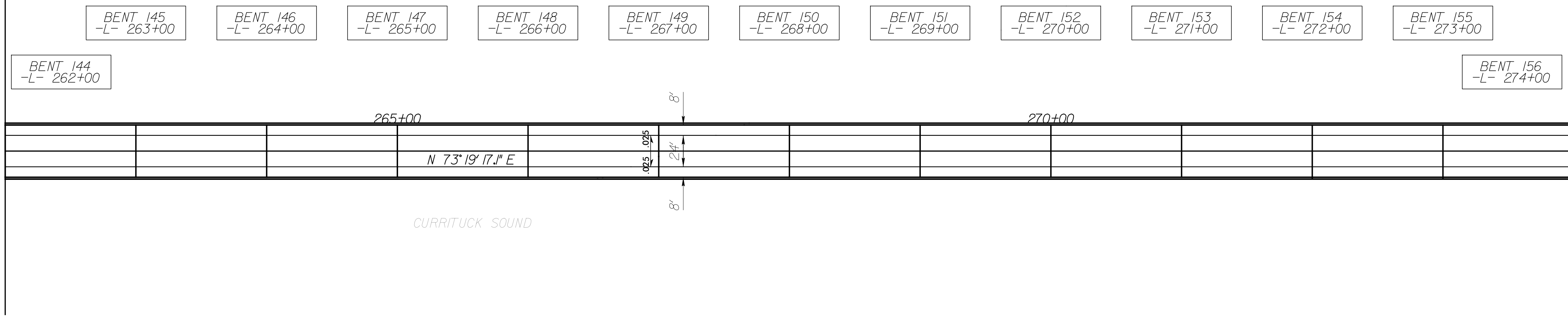
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. R-2576	SHEET NO. 15C
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>DOCUMENT NOT CONSIDERED FINAL</b> UNLESS ALL SIGNATURES COMPLETED	



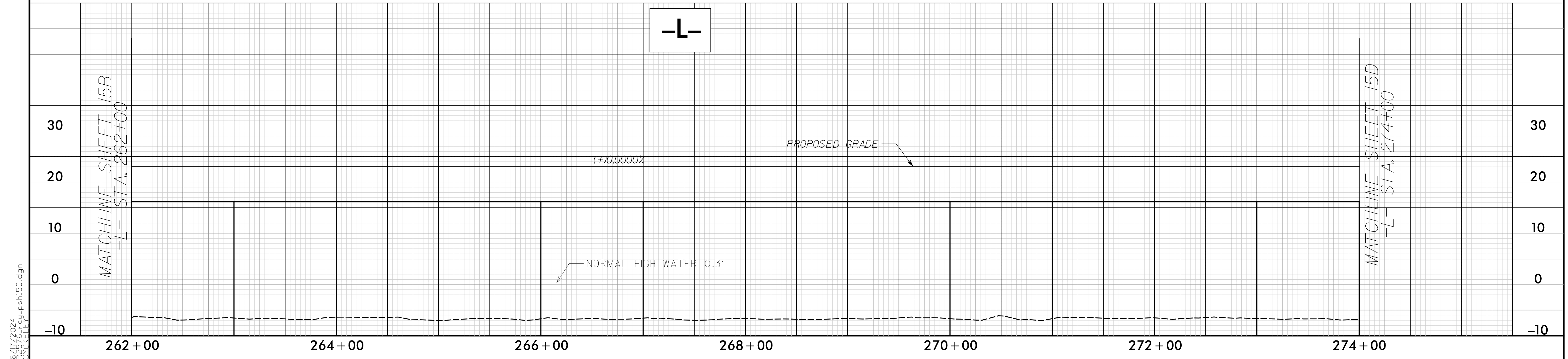
CURRITUCK SOUND SAV HABITAT SURVEY BOUNDARY

MATCHLINE SHEET 15B  
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MATCHLINE SHEET 15D  
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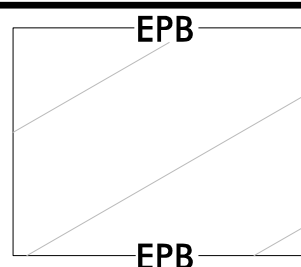
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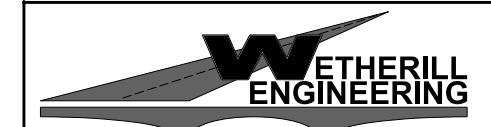
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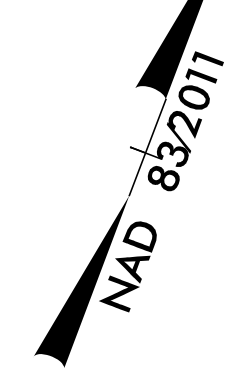
NC License  
Number F-0159  
1223 Jones Franklin Rd.  
Raleigh, N.C. 27606  
License No. F-0377  
Bus: 919 851 8077  
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. R-2576	SHEET NO. 15D
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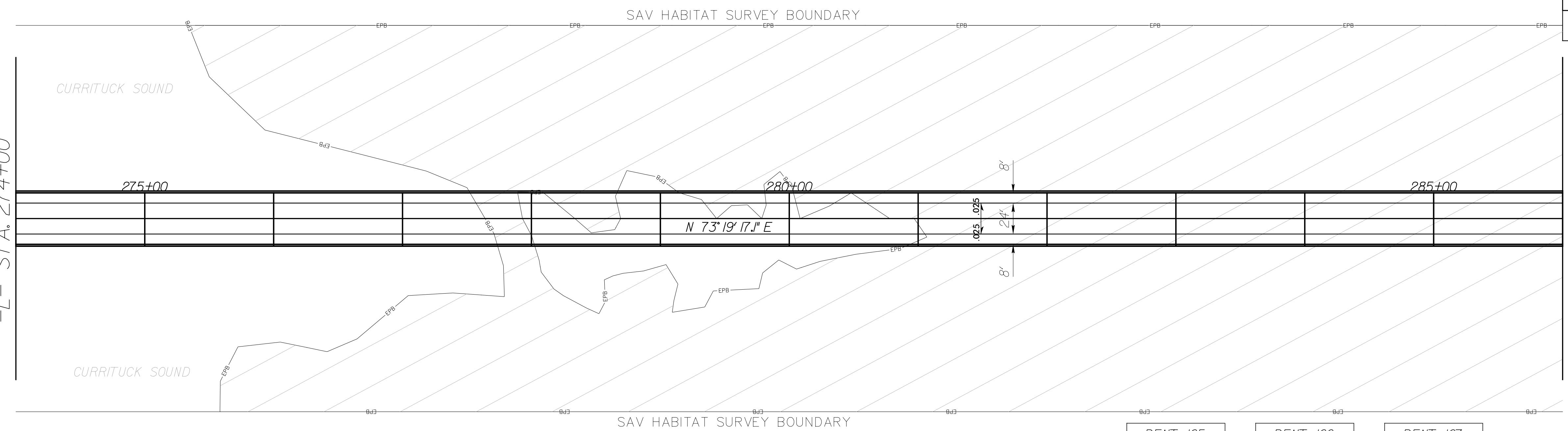
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>DOCUMENT NOT CONSIDERED FINAL</b> UNLESS ALL SIGNATURES COMPLETED	

- BENT 156  
-L- 274+00
- BENT 157  
-L- 275+00
- BENT 158  
-L- 276+00
- BENT 159  
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- BENT 160  
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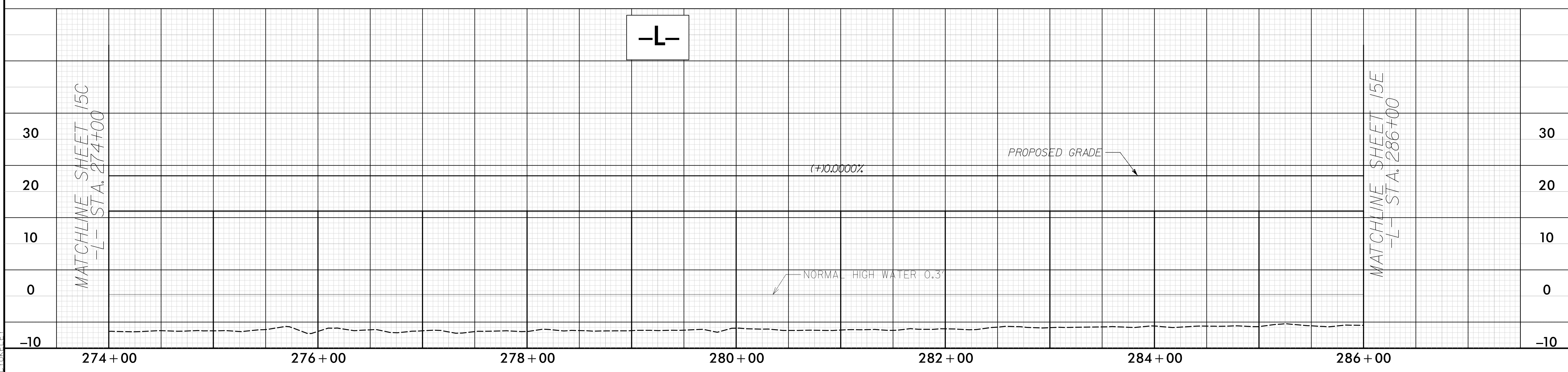
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MATCHLINE SHEET 15E  
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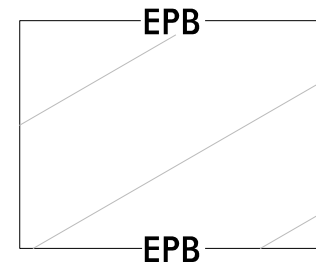


- BENT 165  
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- BENT 166  
-L- 284+00
- BENT 167  
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-L-



6/17/2024



SAV HABITAT

BENT 169  
-L- 287+00

BENT 170  
-L- 288+00

BENT 171  
-L- 289+00

BENT 172  
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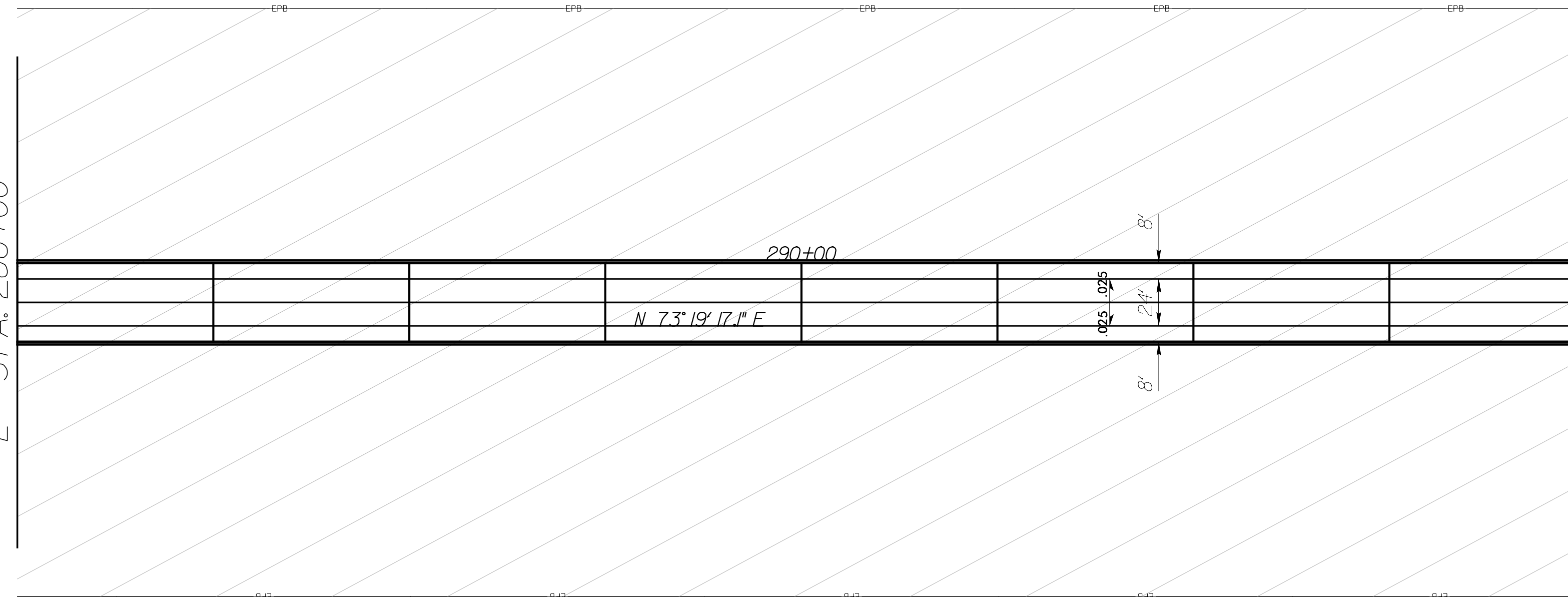
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CURRITUCK SOUND

SAV HABITAT SURVEY BOUNDARY

BENT 176  
-L- 294+00

MATCHLINE SHEET 15D  
-L- STA. 286+00



MATCHLINE SHEET 16A  
-L- STA. 294+00

CURRITUCK SOUND

SAV HABITAT SURVEY BOUNDARY

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H. W. LOCHNER, INC.  
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RALEIGH, NC 27612  
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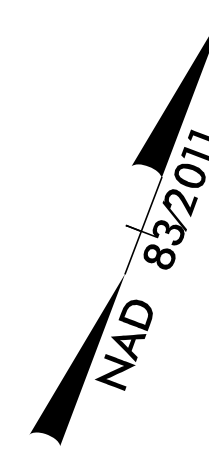


1223 Jones Franklin Rd.  
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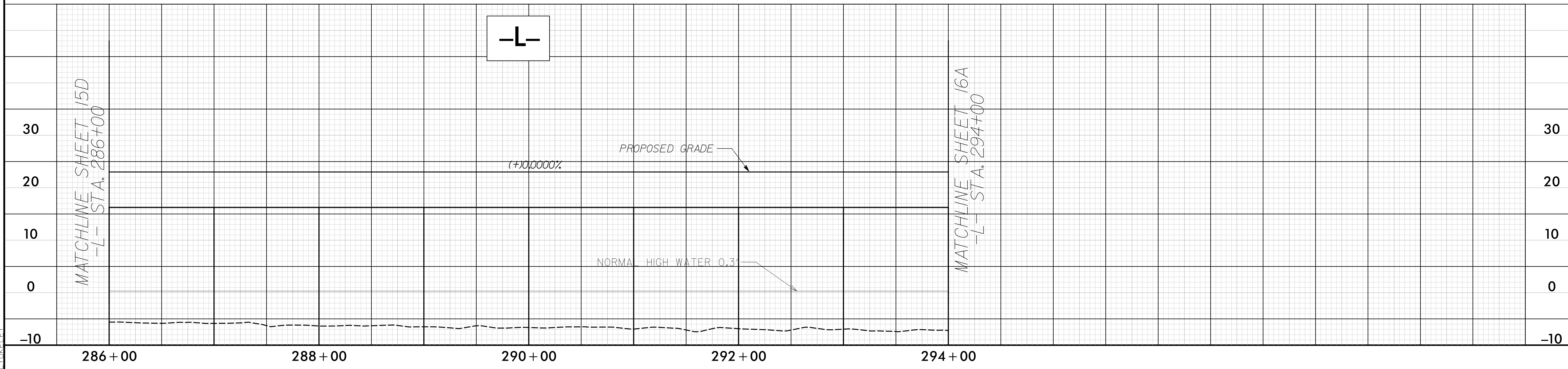
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. R-2576 SHEET NO. 15E

RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
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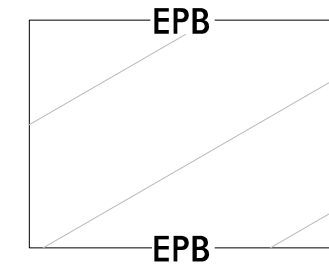
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SYDNEY



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6/17/2024  
R2576  
SYDNEY

- BENT 176  
-L- 294+00
- BENT 177  
-L- 295+00
- BENT 178  
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- BENT 180  
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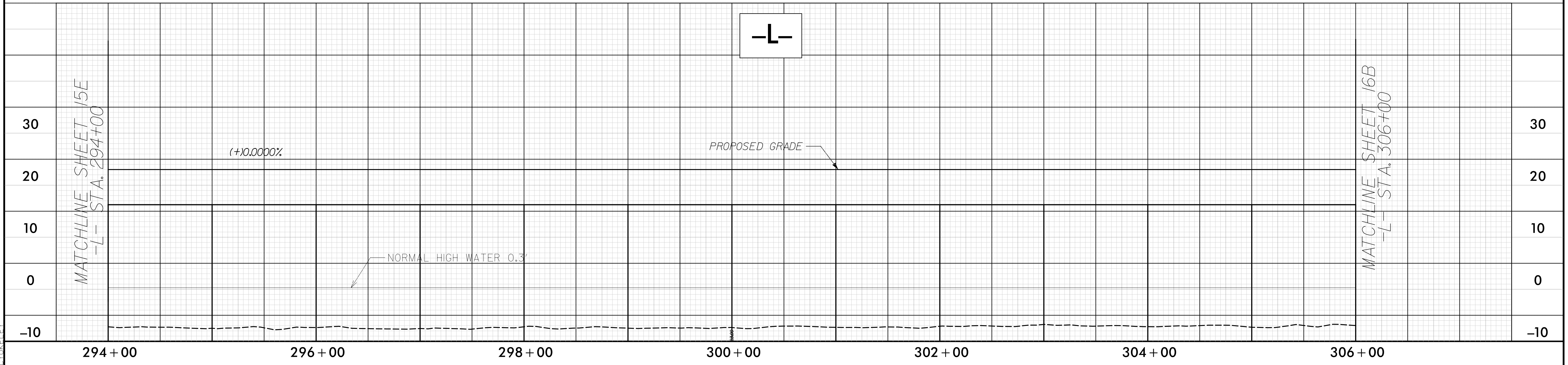
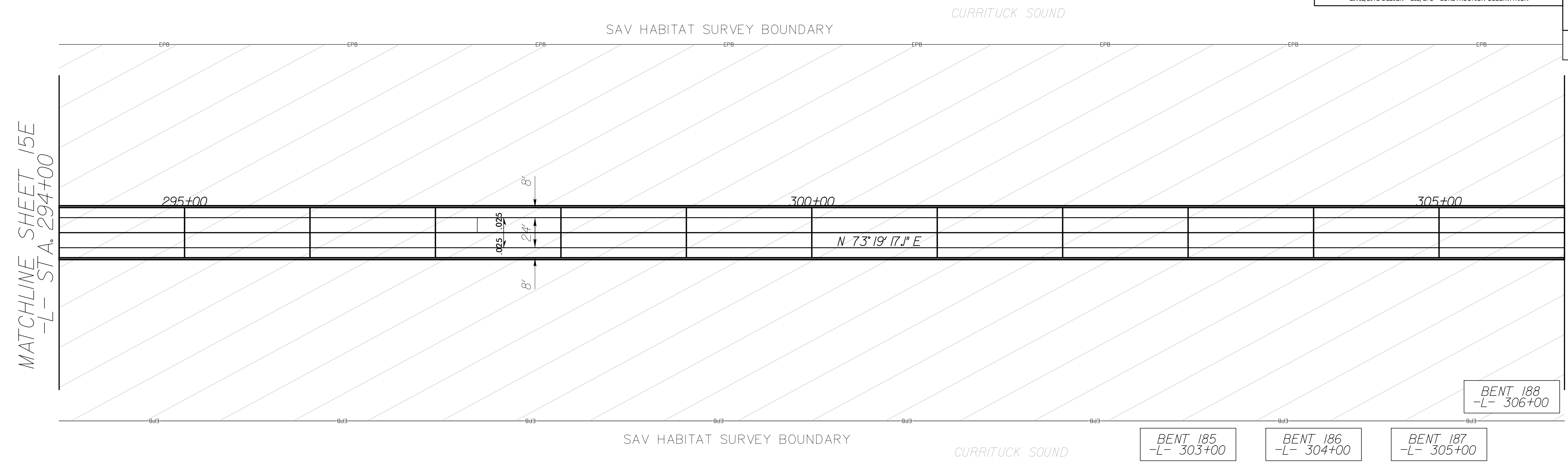
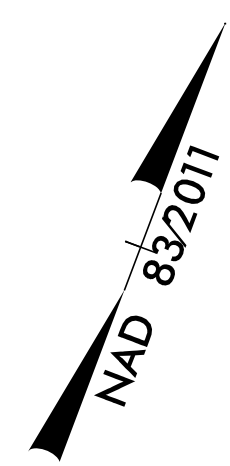
**LOCHNER**  
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NC License  
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**WETHERILL ENGINEERING**  
 TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

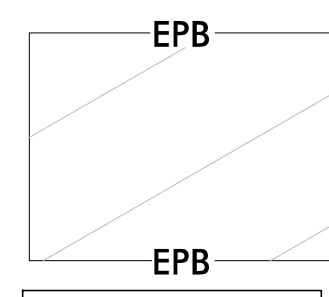
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ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>DOCUMENT NOT CONSIDERED FINAL</b> UNLESS ALL SIGNATURES COMPLETED	



6/17/2024

6/17/2024  
R2576.dgn  
LOCHNER

BENT 188 -L- 306+00    BENT 189 -L- 307+00    BENT 190 -L- 308+00    BENT 191 -L- 309+00    BENT 192 -L- 310+00    BENT 193 -L- 311+00    BENT 194 -L- 312+00    BENT 195 -L- 313+00    BENT 196 -L- 314+00



SAV HABITAT



**LOCHNER**  
 H. W. LOCHNER, INC.  
 2840 PLAZA PLACE, SUITE 202  
 RALEIGH, NC 27612  
 (919) 571-7111

NC License Number F-0159

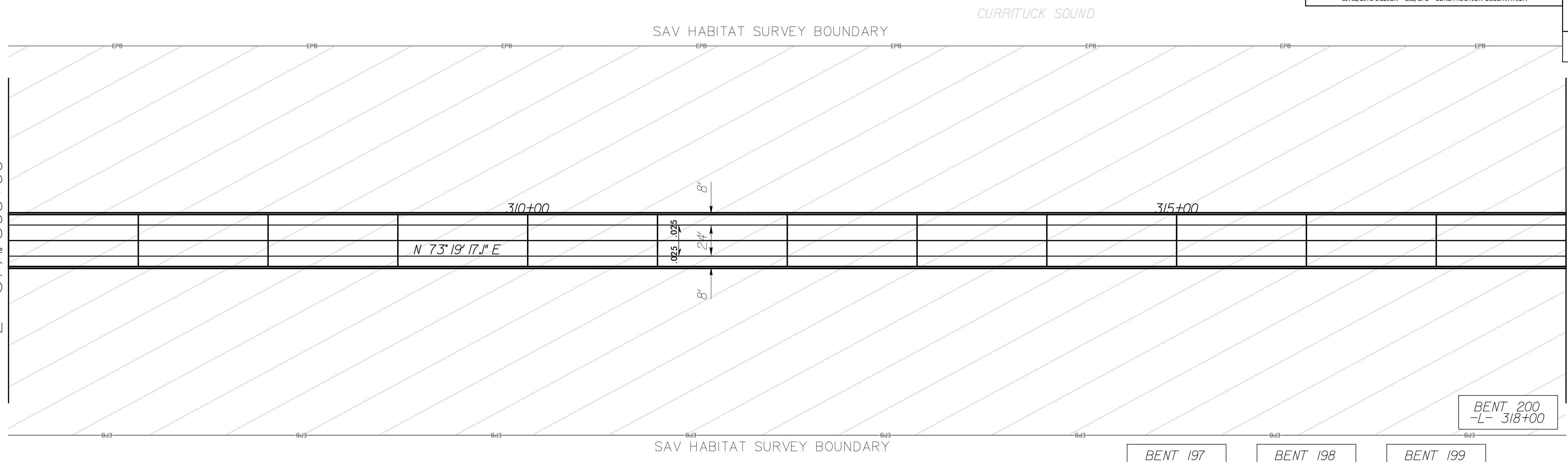
1223 Jones Franklin Rd.  
 Raleigh, N.C. 27606  
 License No. F-0377  
 Bus: 919 851 8077  
 Fax: 919 851 8107

**WETHERILL ENGINEERING**  
 TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

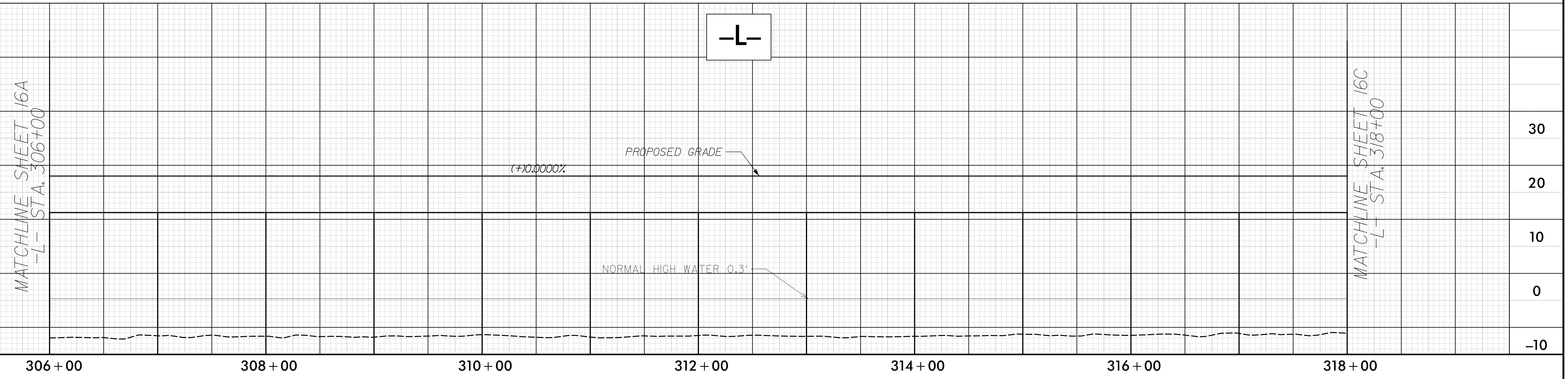
PROJECT REFERENCE NO. R-2576	SHEET NO. 16B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>DOCUMENT NOT CONSIDERED FINAL</b> UNLESS ALL SIGNATURES COMPLETED	

MATCHLINE SHEET 16A  
-L- STA. 306+00

MATCHLINE SHEET 16C  
-L- STA. 318+00



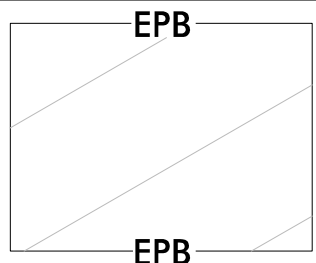
BENT 197 -L- 315+00    BENT 198 -L- 316+00    BENT 199 -L- 317+00





6/17/2024

6/17/2024  
R25776.dwg - psh16C.dgn  
SYDNEY



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2840 PLAZA PLACE, SUITE 202  
RALEIGH, NC 27612  
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NC License  
Number F-0159

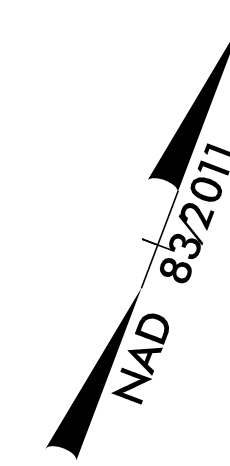


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Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

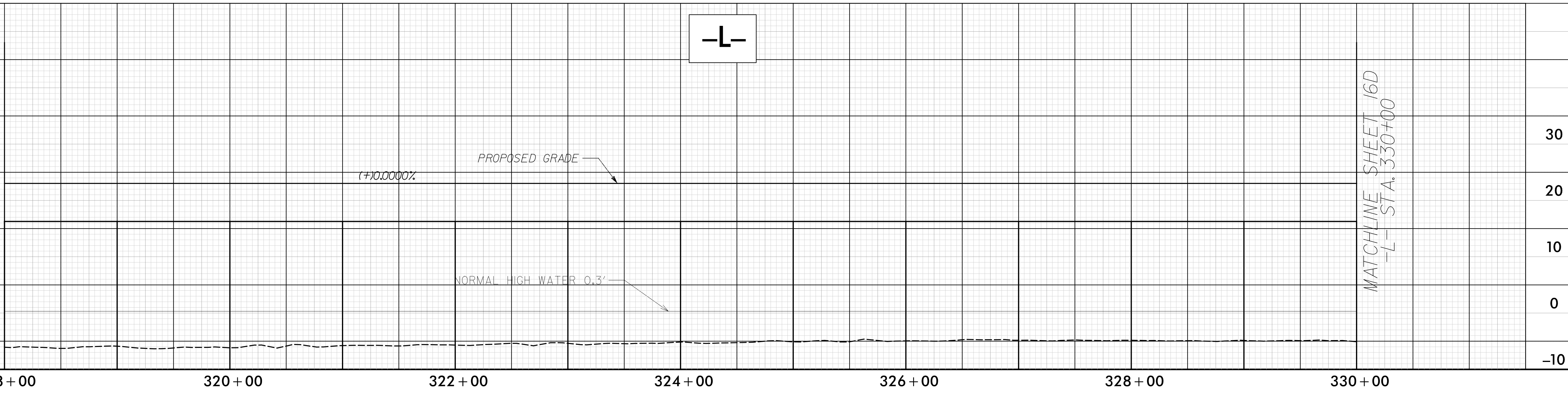
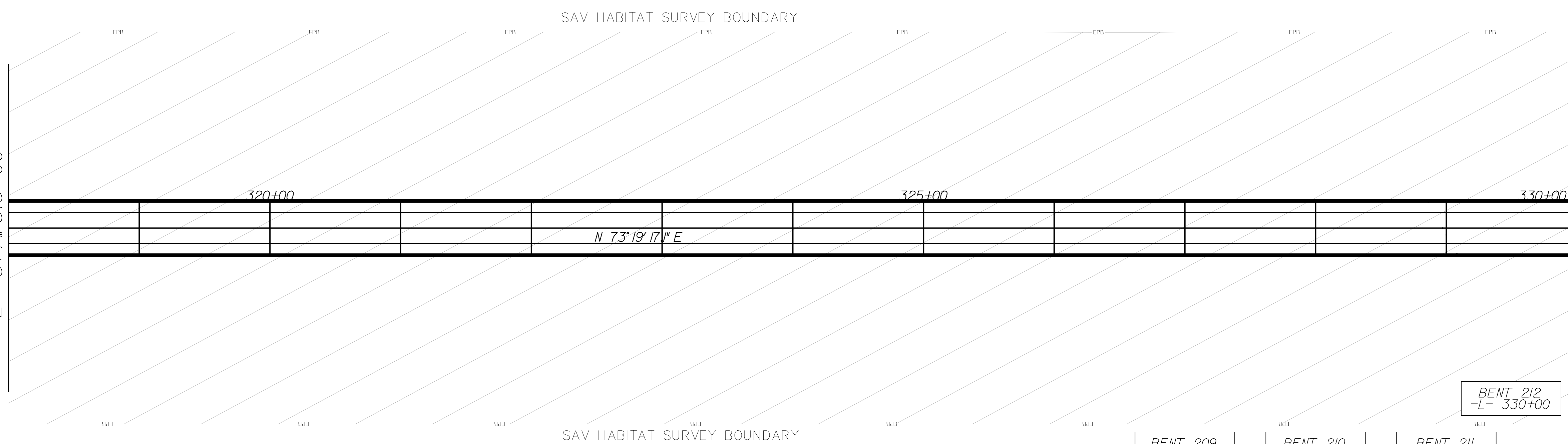
PROJECT REFERENCE NO. R-2576	SHEET NO. 16C
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>DOCUMENT NOT CONSIDERED FINAL</b> UNLESS ALL SIGNATURES COMPLETED	

- BENT 200  
-L- 318+00
- BENT 201  
-L- 319+00
- BENT 202  
-L- 320+00
- BENT 203  
-L- 321+00
- BENT 204  
-L- 322+00
- BENT 205  
-L- 323+00
- BENT 206  
-L- 324+00
- BENT 207  
-L- 325+00
- BENT 208  
-L- 326+00



MATCHLINE SHEET 16B  
-L- STA. 318+00

MATCHLINE SHEET 16D  
-L- STA. 330+00



6/17/2024

6/17/2024  
R2576  
LOCHNER

BENT 212  
-L- 330+00

BENT 213  
-L- 331+00

BENT 214  
-L- 332+00

BENT 215  
-L- 333+00

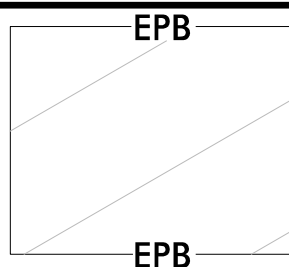
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BENT 217  
-L- 335+00

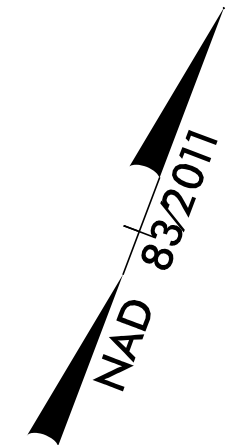
BENT 218  
-L- 336+00

BENT 219  
-L- 337+00

BENT 220  
-L- 338+00



SAV HABITAT



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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

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Raleigh, N.C. 27606  
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Bus: 919 851 8077  
Fax: 919 851 8107

NC License  
Number F-0159

PROJECT REFERENCE NO.  
R-2576

SHEET NO.  
16D

RW SHEET NO.

ROADWAY DESIGN  
ENGINEER

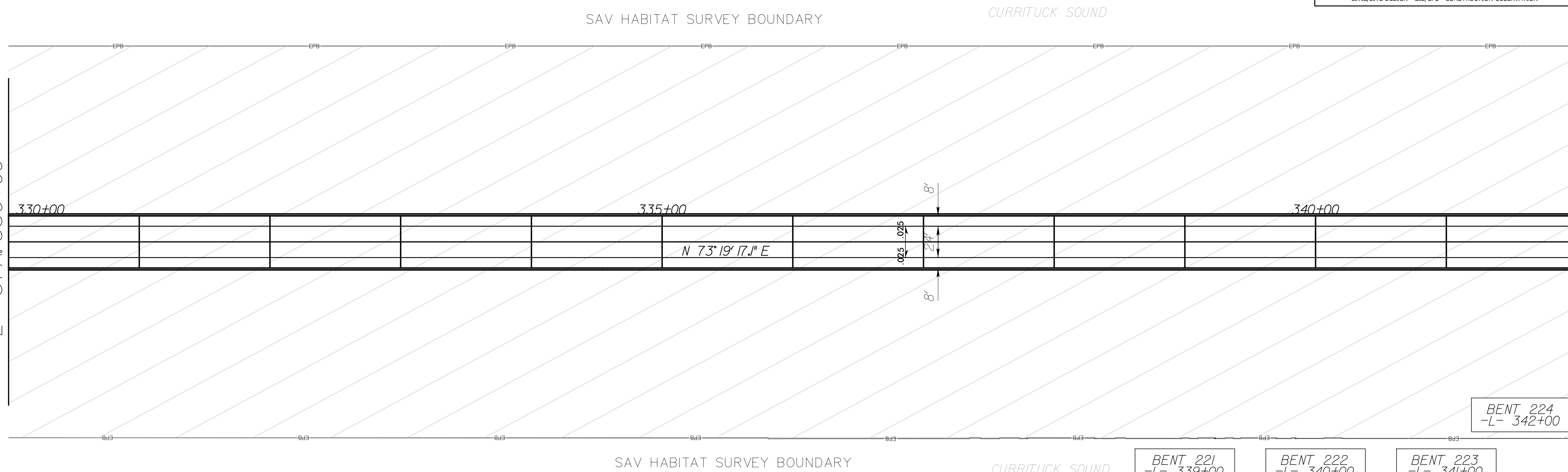
HYDRAULICS  
ENGINEER

**INCOMPLETE PLANS**  
DO NOT USE FOR R/W ACQUISITION

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

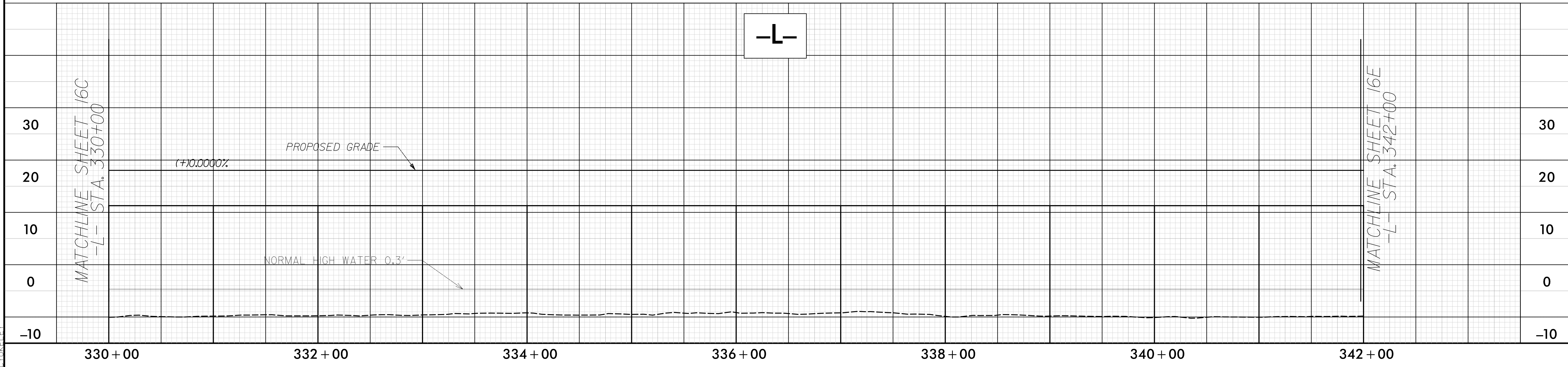
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-L- STA. 330+00

MATCHLINE SHEET 16E  
-L- STA. 342+00



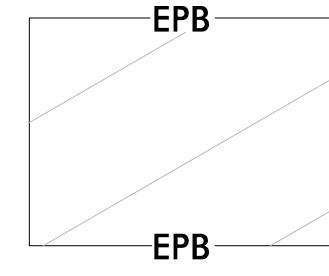
MATCHLINE SHEET 16C  
-L- STA. 330+00

MATCHLINE SHEET 16E  
-L- STA. 342+00



6/17/2024

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R2576-CDL-psh16E.dgn  
SYDNEY



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NC License  
Number F-0159

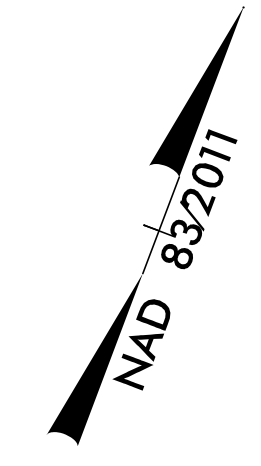
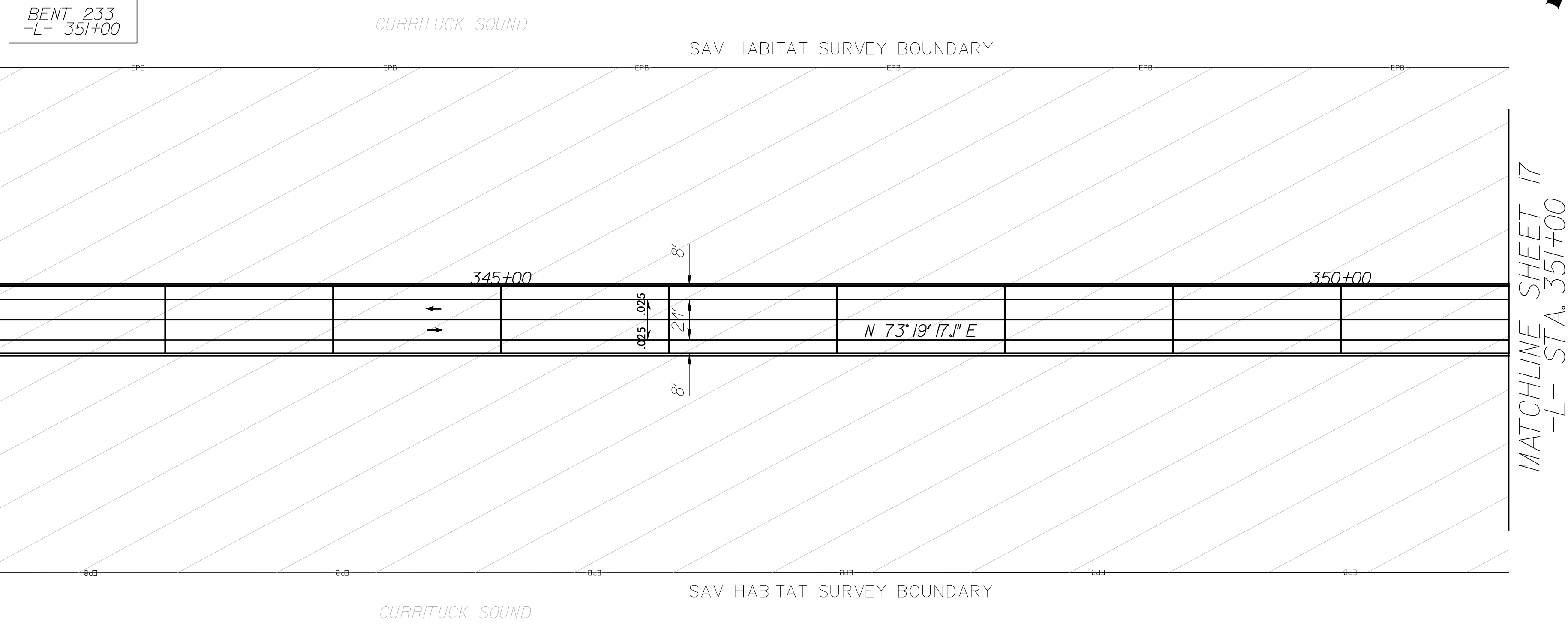


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Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

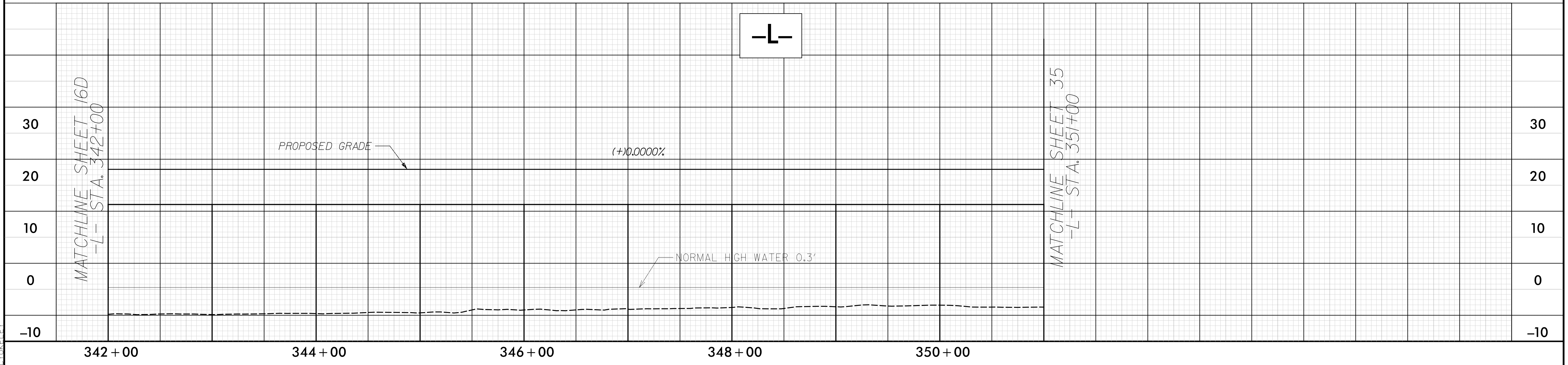
PROJECT REFERENCE NO. <i>R-2576</i>	SHEET NO. <i>16E</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>DOCUMENT NOT CONSIDERED FINAL</b> UNLESS ALL SIGNATURES COMPLETED	

- BENT 224  
-L- 342+00
- BENT 225  
-L- 343+00
- BENT 226  
-L- 344+00
- BENT 227  
-L- 345+00
- BENT 228  
-L- 346+00
- BENT 229  
-L- 347+00
- BENT 230  
-L- 348+00
- BENT 231  
-L- 349+00
- BENT 232  
-L- 350+00



MATCHLINE SHEET 16D  
-L- STA. 342+00

MATCHLINE SHEET 17  
-L- STA. 351+00



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 Bus: 919 851 8077  
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WETHERILL  
 ENGINEERING

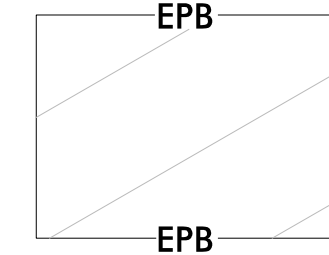
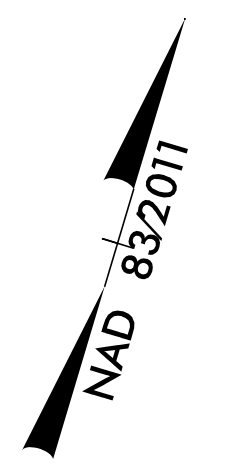
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. R-2576	SHEET NO. 17
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ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
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**INCOMPLETE PLANS**  
DO NOT USE FOR R/W ACQUISITION

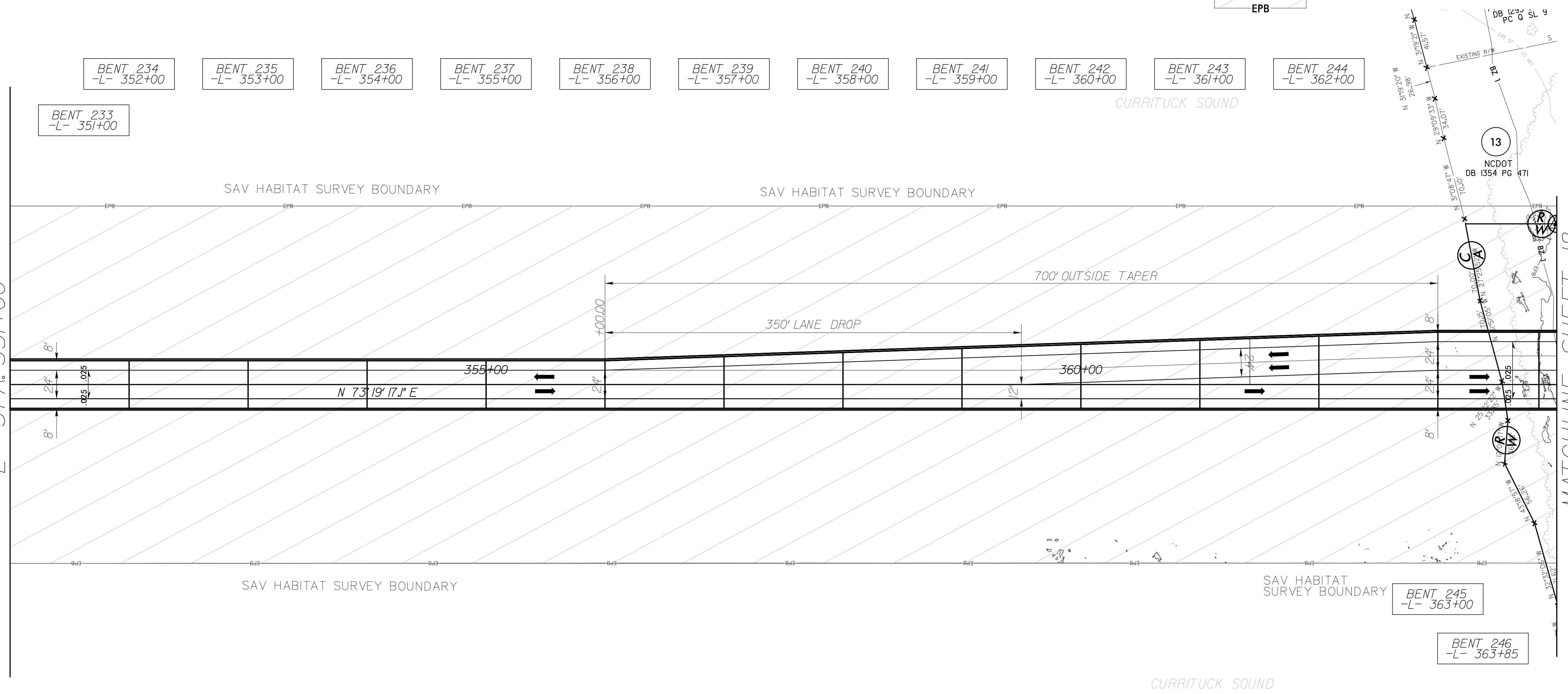
**DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED**



- BENT 234  
-L- 352+00
- BENT 235  
-L- 353+00
- BENT 236  
-L- 354+00
- BENT 237  
-L- 355+00
- BENT 238  
-L- 356+00
- BENT 239  
-L- 357+00
- BENT 240  
-L- 358+00
- BENT 241  
-L- 359+00
- BENT 242  
-L- 360+00
- BENT 243  
-L- 361+00
- BENT 244  
-L- 362+00
- BENT 233  
-L- 351+00

MATCHLINE SHEET 16E  
-L- STA. 351+00

MATCHLINE SHEET 18  
-L- STA. 364+00



BENT 245  
-L- 363+00

BENT 246  
-L- 363+85

SEE SHEET 2D-1 FOR DITCH DETAILS  
 SEE SHEET 35 FOR -L- PROFILE

6/17/2024 R2576-F01-psht18.dgn C. COCKLEY

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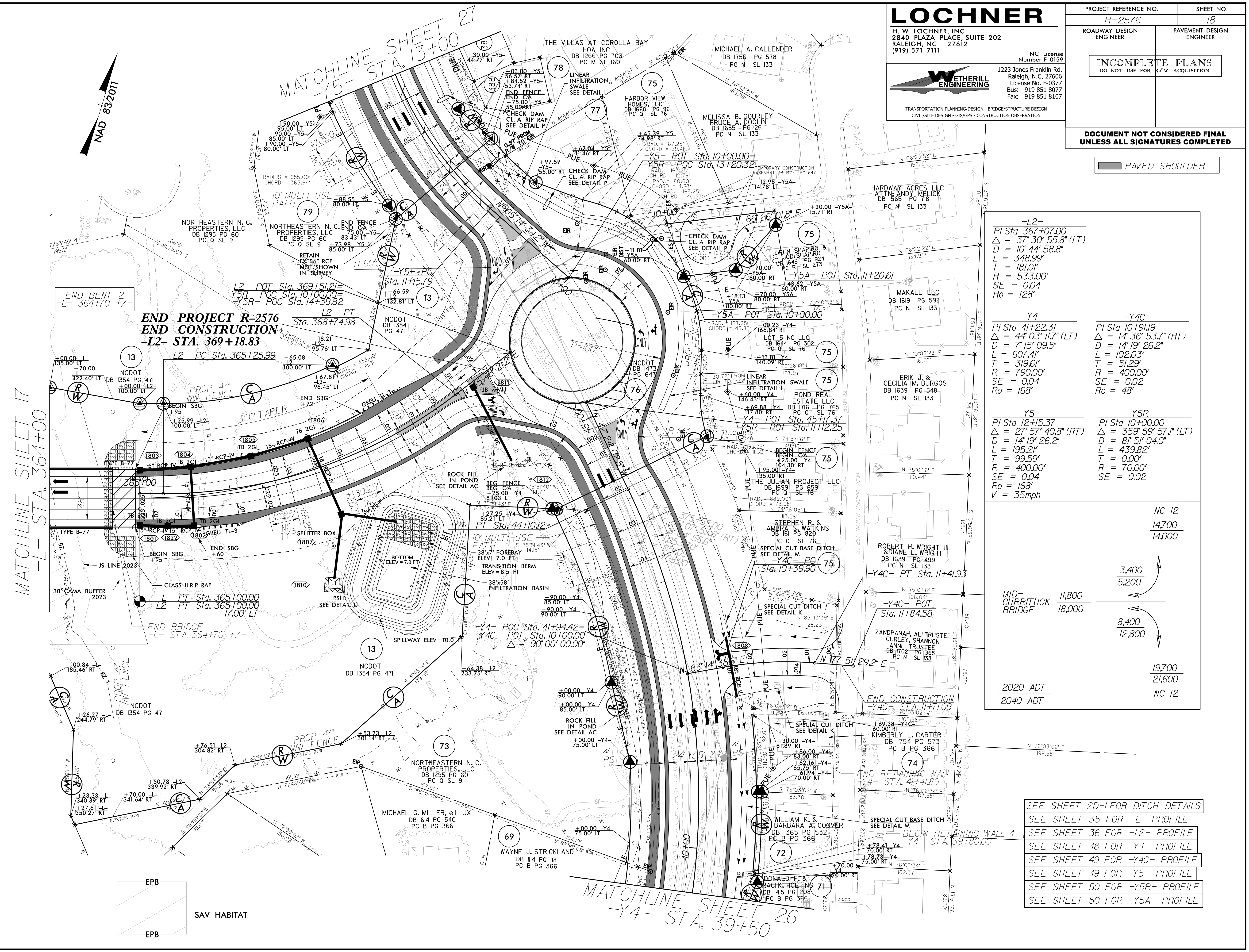
NC License Number F-0159  
 1223 Jones Franklin Rd.  
 Raleigh, N.C. 27606  
 License No. F-0377  
 Bus: 919 851 8077  
 Fax: 919 851 8107

**WETHERILL ENGINEERING**  
 TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. **R-2576** SHEET NO. **18**  
 ROADWAY DESIGN ENGINEER PAVEMENT DESIGN ENGINEER

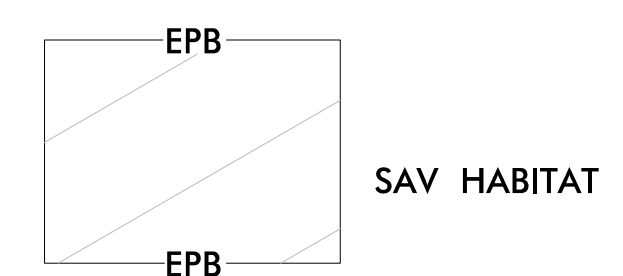
**INCOMPLETE PLANS**  
 DO NOT USE FOR R/W ACQUISITION

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



<b>-L2-</b> PI Sta 367+07.00 Δ = 37° 30' 55.8" (LT) D = 10' 44' 58.8" L = 348.99' T = 181.0' R = 533.00' SE = 0.04 Ro = 128'	<b>-Y4C-</b> PI Sta 41+22.31 Δ = 44° 03' 11.7" (LT) D = 7' 15' 09.5" L = 607.4' T = 319.6' R = 790.00' SE = 0.04 Ro = 168'
<b>-Y5-</b> PI Sta 12+15.37 Δ = 27° 57' 40.8" (RT) D = 14' 19' 26.2" L = 195.2' T = 99.59' R = 400.00' SE = 0.04 Ro = 168' V = 35mph	<b>-Y5R-</b> PI Sta 10+00.00 Δ = 81° 51' 04.0" (RT) D = 8' 51' 04.0" L = 439.82' T = 0.00' R = 70.00' SE = 0.02
<b>-Y4C- PT Sta. 11+41.93</b> MID-CURRITUCK BRIDGE 2020 ADT: 11,800 2040 ADT: 18,000	<b>NC 12</b> 14,700 14,000 3,400 5,200 8,400 12,800 19,700 21,600 NC 12

SEE SHEET 2D-1 FOR DITCH DETAILS  
 SEE SHEET 35 FOR -L- PROFILE  
 SEE SHEET 36 FOR -L2- PROFILE  
 SEE SHEET 48 FOR -Y4- PROFILE  
 SEE SHEET 49 FOR -Y4C- PROFILE  
 SEE SHEET 49 FOR -Y5- PROFILE  
 SEE SHEET 50 FOR -Y5R- PROFILE  
 SEE SHEET 50 FOR -Y5A- PROFILE



MATCHLINE SHEET 26  
 -Y4- STA. 39+50

6/2/99

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RALEIGH, NC 27612  
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Number F-0159



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Raleigh, N.C. 27606  
License No. F-0377  
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Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. SHEET NO.

R-2576 19

ROADWAY DESIGN ENGINEER PAVEMENT DESIGN ENGINEER

**INCOMPLETE PLANS**  
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-Y-		
Pls Sta 21+52.26 θs = 0° 55' 36.6" Ls = 165.00' LT = 110.00' ST = 55.00'	PI Sta 27+75.58 Δ = 12° 43' 01.7" (RT) D = 1° 07' 24.4" L = 1,131.98' T = 568.32' R = 5,100.00' SE = 0.03	Pls Sta 33+94.24 θs = 0° 55' 36.6" Ls = 165.00' LT = 110.00' ST = 55.00'
-Y2-		
PI Sta 11+70.00 Δ = 81° 32' 22.8" (LT) D = 36° 57' 54.1" L = 220.59' T = 133.65' R = 155.00' SE = 0.06 Ro = 144'	PI Sta 25+74.49 Δ = 95° 09' 21.1" (RT) D = 6° 44' 26.4" L = 1,411.67' T = 930.15' R = 850.00' ** SE = 0.06 Ro = 144'	

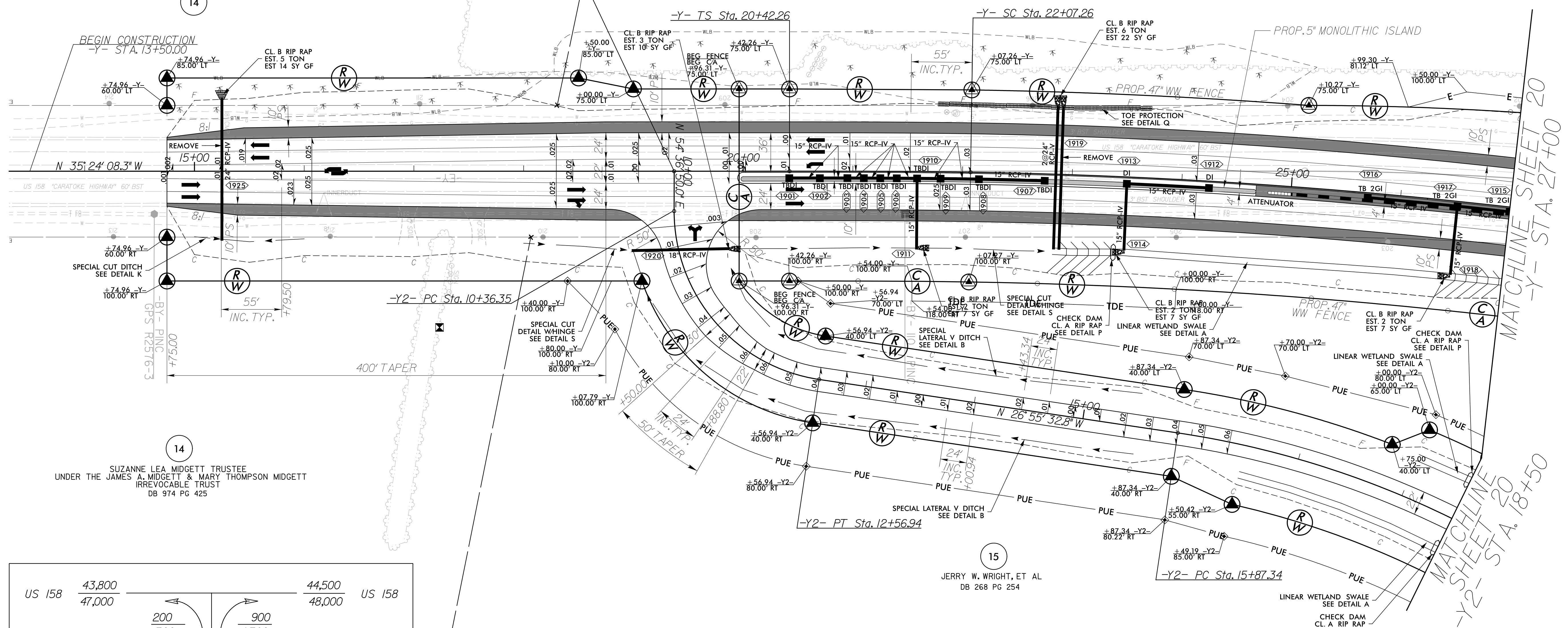
\*\* DESIGN EXCEPTION REQUIRED FOR HORIZONTAL CURVE

SUZANNE LEA MIDGETT TRUSTEE  
UNDER THE JAMES A. MIDGETT & MARY THOMPSON MIDGETT  
IRREVOCABLE TRUST  
DB 974 PG 425

-Y- POT Sta. 19+37.18=  
-Y2- POT Sta. 10+00.00  
Δ = 89° 59' 01.74"

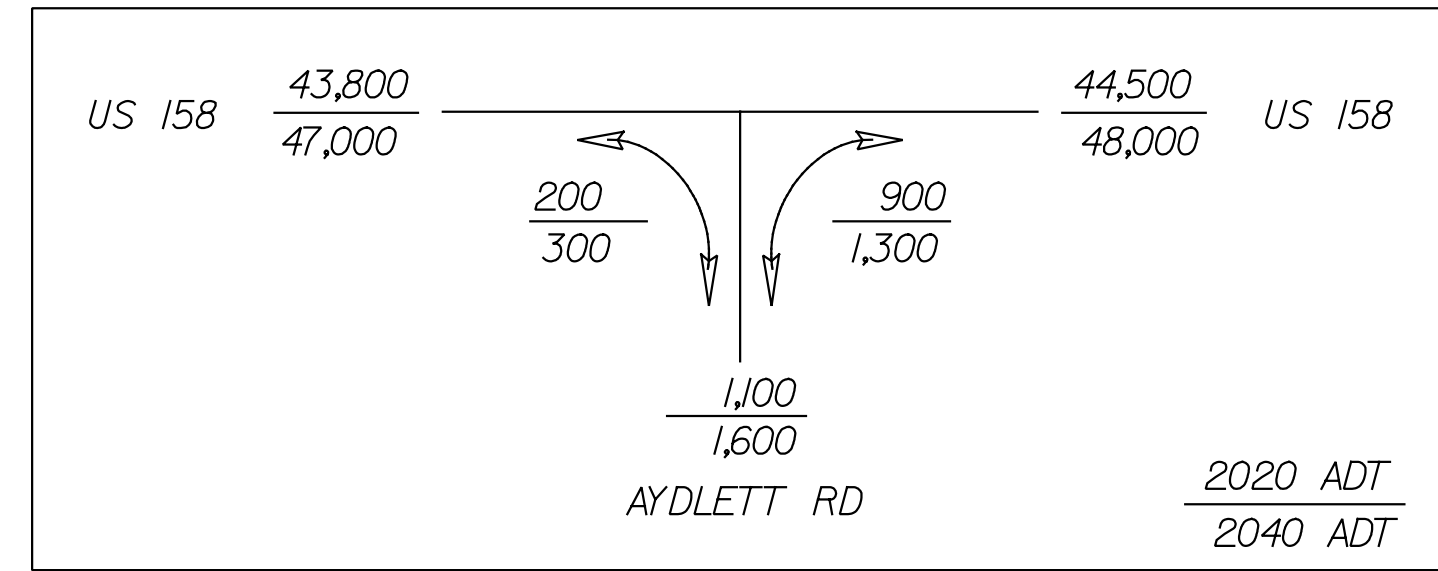


15  
JERRY W. WRIGHT, ET AL  
DB 268 PG 254



SUZANNE LEA MIDGETT TRUSTEE  
UNDER THE JAMES A. MIDGETT & MARY THOMPSON MIDGETT  
IRREVOCABLE TRUST  
DB 974 PG 425

15  
JERRY W. WRIGHT, ET AL  
DB 268 PG 254



SEE SHEET 2D-I FOR DITCH DETAILS  
SEE SHEET 36 FOR -Y- PROFILE  
SEE SHEET 45 FOR -Y2- PROFILE

6/17/2024  
R03766101-psh19.dgn  
C. COCKLEY

6/2/99

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(919) 571-7111



TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. **R-2576** SHEET NO. **20**

ROADWAY DESIGN ENGINEER PAVEMENT DESIGN ENGINEER

**INCOMPLETE PLANS**  
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**DOCUMENT NOT CONSIDERED FINAL**  
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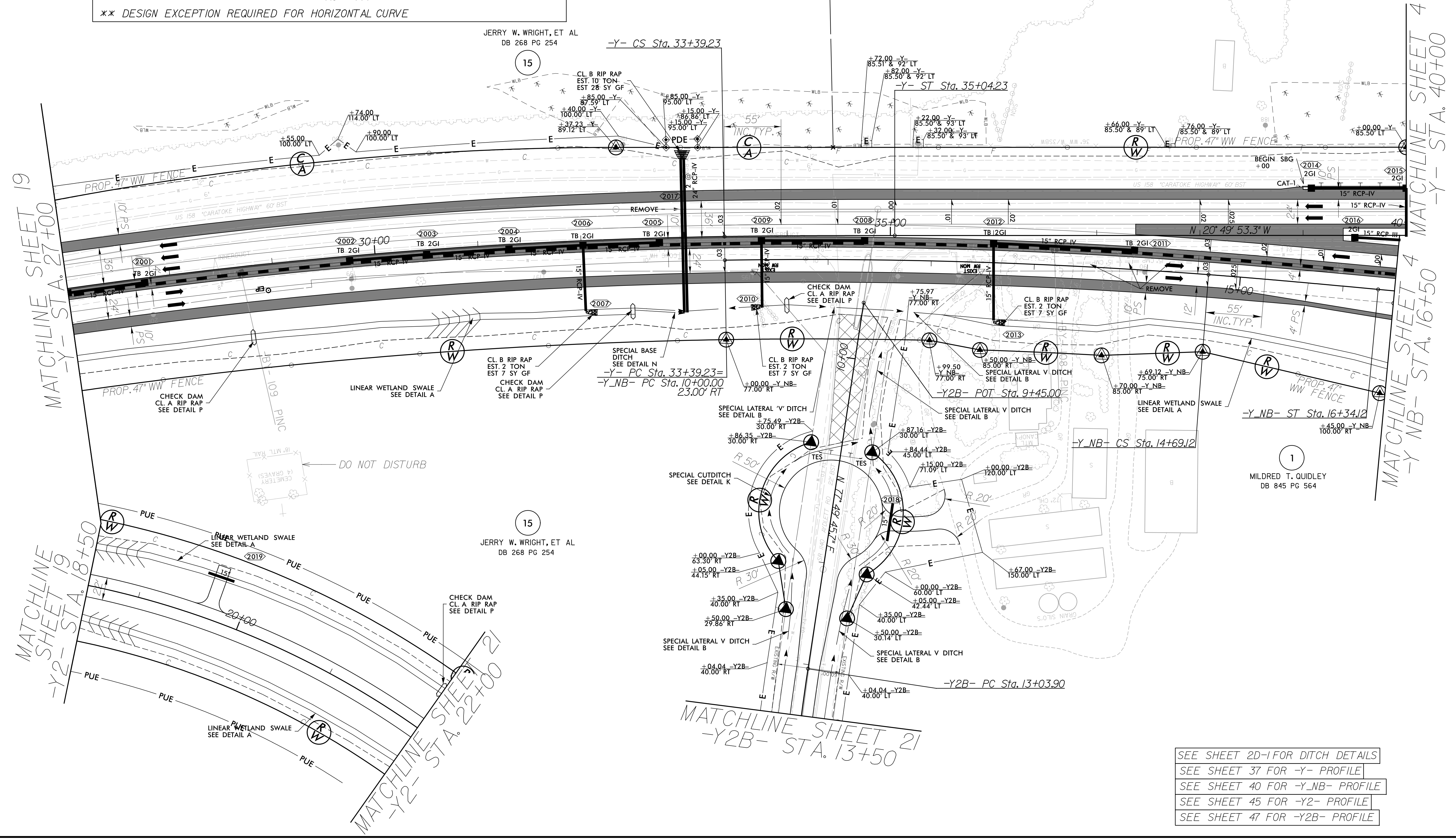
-Y-			
Pls Sta 21+52.26 Θs = 0° 55' 36.6" Ls = 165.00' LT = 110.00' ST = 55.00'	Pls Sta 27+75.58 Δ = 12° 43' 01.7" (RT) D = 1° 07' 24.4" L = 1,131.98' T = 568.32' R = 5,100.00' SE = 0.03	Pls Sta 33+94.24 Θs = 0° 55' 36.6" Ls = 165.00' LT = 110.00' ST = 55.00'	
-Y_NB-			
Pls Sta 12+34.73 Δ = 5° 17' 39.2" (RT) D = 1° 07' 42.7" L = 469.12' T = 234.73' R = 5,077.00' SE = 0.03	Pls Sta 15+24.12 Θs = 0° 55' 51.8" Ls = 165.00' LT = 110.00' ST = 55.00'	Pls Sta 25+17.49 Δ = 95° 09' 21.1" (RT) D = 6° 44' 26.4" L = 1,411.67' T = 930.15' R = 850.00' ** SE = 0.06 Ro = 144'	Pls Sta 14+46.16 Δ = 8° 07' 45.1" (LT) D = 2° 51' 53.2" L = 283.76' T = 142.12' R = 2,000.00'
** DESIGN EXCEPTION REQUIRED FOR HORIZONTAL CURVE			



1  
MILDRED T. QUIDLEY  
DB 845 PG 564  
MB 3 PG 10

JERRY W. WRIGHT, ET AL  
DB 268 PG 254

1  
MILDRED T. QUIDLEY  
DB 845 PG 564



- SEE SHEET 20-I FOR DITCH DETAILS
- SEE SHEET 37 FOR -Y- PROFILE
- SEE SHEET 40 FOR -Y\_NB- PROFILE
- SEE SHEET 45 FOR -Y2- PROFILE
- SEE SHEET 47 FOR -Y2B- PROFILE

6/17/2024  
R2576\_P20\_psh20.dgn  
M. QUIDLEY

6/2/99

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Number F-0159



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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. SHEET NO.

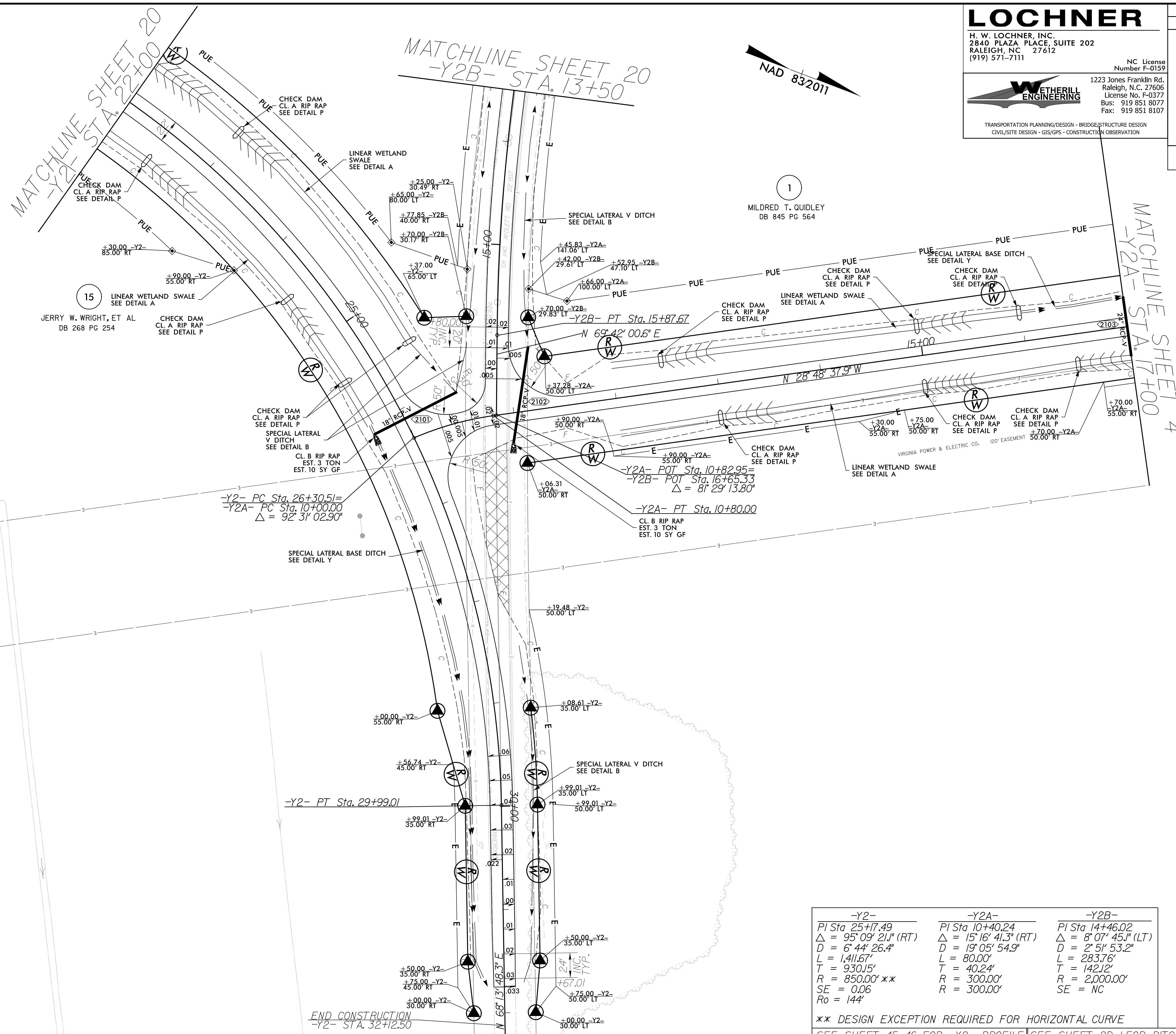
R-2576 21

ROADWAY DESIGN ENGINEER

PAVEMENT DESIGN ENGINEER

**INCOMPLETE PLANS**  
DO NOT USE FOR R/W ACQUISITION

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



15  
JERRY W. WRIGHT, ET AL  
DB 268 PG 254

1  
MILDRED T. QUIDLEY  
DB 845 PG 564

-Y2- PC Sta. 26+30.51=  
-Y2A- PC Sta. 10+00.00  
 $\Delta = 92^\circ 31' 02.90''$

-Y2A- POT Sta. 10+82.95=  
-Y2B- POT Sta. 16+65.33  
 $\Delta = 81^\circ 29' 13.80''$

-Y2-	-Y2A-	-Y2B-
PI Sta 25+17.49	PI Sta 10+40.24	PI Sta 14+46.02
$\Delta = 95^\circ 09' 21.1''$ (RT)	$\Delta = 15^\circ 16' 41.3''$ (RT)	$\Delta = 8^\circ 07' 45.1''$ (LT)
D = 6' 44" 26.4"	D = 19' 05" 54.9"	D = 2' 51" 53.2"
L = 1,411.67'	L = 80.00'	L = 283.76'
T = 930.15'	T = 40.24'	T = 142.12'
R = 850.00' **	R = 300.00'	R = 2,000.00'
SE = 0.06	R = 300.00'	SE = NC
Ro = 144'		

\*\* DESIGN EXCEPTION REQUIRED FOR HORIZONTAL CURVE

SEE SHEET 45-46 FOR -Y2- PROFILE SEE SHEET 2D-1 FOR DITCH DETAILS

SEE SHEET 46 FOR -Y2A- PROFILE

SEE SHEET 47 FOR -Y2B- PROFILE

6/17/2024  
R0376-R04-psh21.dgn  
MILDRED T. QUIDLEY



6/27/99

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NC License  
Number F-0159



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Raleigh, N.C. 27606  
License No. F-0377  
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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.

R-2576

SHEET NO.

22

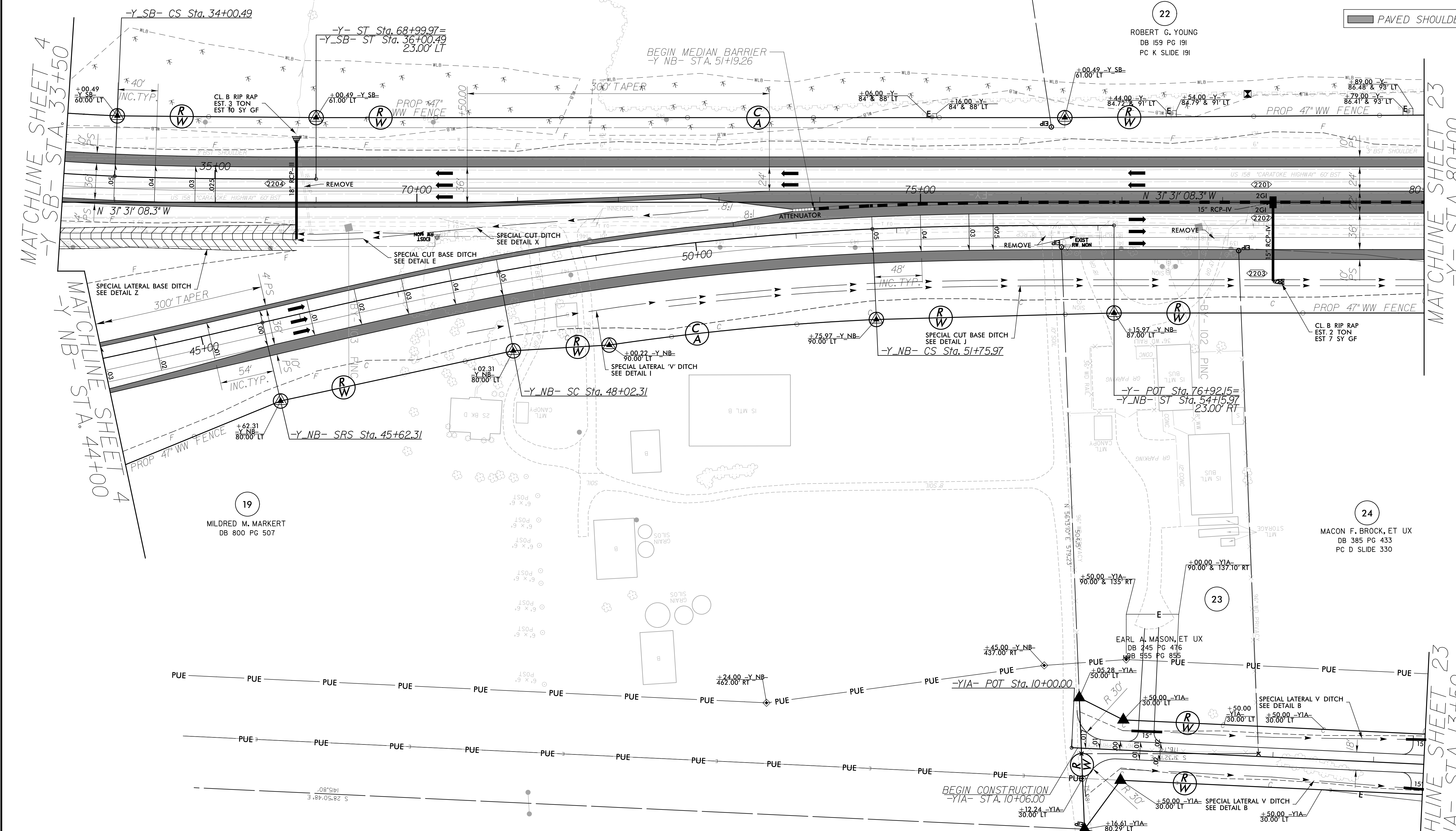
ROADWAY DESIGN  
ENGINEER

PAVEMENT DESIGN  
ENGINEER

**INCOMPLETE PLANS**  
DO NOT USE FOR R/W ACQUISITION

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

-Y_NB-		
PIs Sta 47+22.32	PI Sta 49+89.44	PIs Sta 52+55.98
$\theta_s = 2^\circ 32' 47.3"$	$\Delta = 7^\circ 55' 45.6" (RT)$	$\theta_s = 2^\circ 32' 47.3"$
$L_s = 240.00'$	$D = 2^\circ 07' 19.4"$	$L_s = 240.00'$
$LT = 160.02'$	$L = 373.66'$	$LT = 160.02'$
$ST = 80.02'$	$T = 187.13'$	$ST = 80.02'$
	$R = 2,700.00'$	
	$SE = 0.05$	



SEE SHEET 2D-I FOR DITCH DETAILS  
 SEE SHEET 37-38 FOR -Y- PROFILE  
 SEE SHEET 40-41 FOR -Y\_NB- PROFILE  
 SEE SHEET 39 FOR -Y\_SB- PROFILE  
 SEE SHEET 44 FOR -YIA- PROFILE

6/17/2024  
R02766\_rdw\_psh22.dgn  
C. DICKLEY

# LOCHNER

H. W. LOCHNER, INC.  
2840 PLAZA PLACE, SUITE 202  
RALEIGH, NC 27612  
(919) 571-7111

NC License  
Number F-0159



1223 Jones Franklin Rd.  
Raleigh, N.C. 27606  
License No. F-0377  
Bus: 919 851 8077  
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. R-2576 SHEET NO. 23

ROADWAY DESIGN ENGINEER PAVEMENT DESIGN ENGINEER

INCOMPLETE PLANS  
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

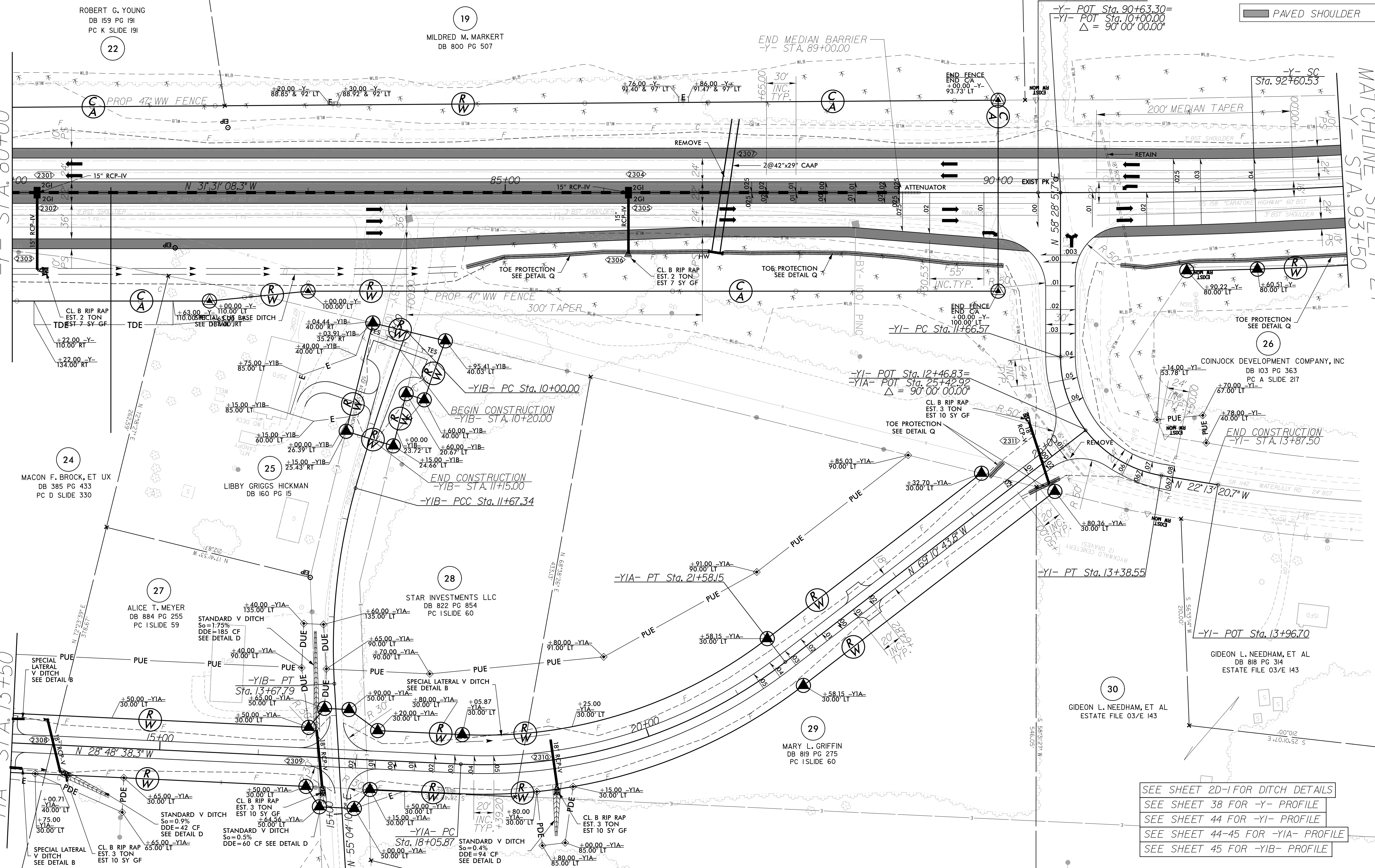
-YI-	-YIA-	-YIB-	-Y-
PI Sta 12+70.31 $\Delta = 80^\circ 42' 12.5" (LT)$ $D = 46' 55" 31.0"$ $L = 171.98'$ $T = 103.74'$ $R = 122.10'$ $SE = 0.06$ $Ro = 124'$	PI Sta 19+89.68 $\Delta = 40^\circ 22' 05.5" (LT)$ $D = 11' 27" 33.0"$ $L = 352.28'$ $T = 183.81'$ $R = 500.00'$ $SE = 0.05$ $Ro = 100'$	PI Sta 10+83.72 $\Delta = 4^\circ 47' 38.4" (LT)$ $D = 2' 51" 53.2"$ $L = 167.34'$ $T = 83.72'$ $R = 2,000.00'$	PI Sta 12+68.51 $\Delta = 19^\circ 08' 28.0" (LT)$ $D = 9' 32' 57.5"$ $L = 200.45'$ $T = 101.17'$ $R = 600.00'$
PIs Sta 91+87.20 $\Theta_s = 1^\circ 48' 02.6"$ $\Delta = 10^\circ 16' 13.8" (LT)$ $D = 1' 38" 13.3"$ $L = 627.39'$ $T = 314.54'$ $R = 3,500.00'$ $SE = 0.04$	PIs Sta 99+61.26 $\Theta_s = 1^\circ 48' 02.6"$ $\Delta = 220.00'$ $L = 146.67'$ $T = 73.34'$		



MATCHLINE SHEET 22  
-Y- STA. 80+00

MATCHLINE SHEET 22  
-YIA- STA. 13+50

MATCHLINE SHEET 24  
-Y- STA. 93+50



SEE SHEET 2D-I FOR DITCH DETAILS  
SEE SHEET 38 FOR -Y- PROFILE  
SEE SHEET 44 FOR -YI- PROFILE  
SEE SHEET 44-45 FOR -YIA- PROFILE  
SEE SHEET 45 FOR -YIB- PROFILE

6/2/2019

6/17/2024  
RGS/76/Fdu-psh23.dgn  
CLOKLEY

6/2/99

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RALEIGH, NC 27612  
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NC License  
Number F-0159



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Raleigh, N.C. 27606  
License No. F-0377  
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Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.

R-2576

SHEET NO.

24

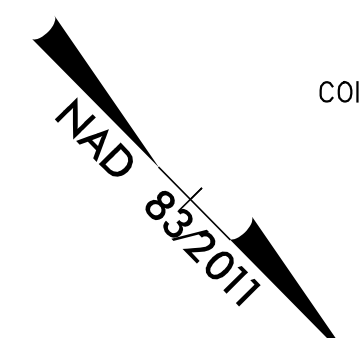
ROADWAY DESIGN  
ENGINEER

PAVEMENT DESIGN  
ENGINEER

**INCOMPLETE PLANS**  
DO NOT USE FOR R/W ACQUISITION

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

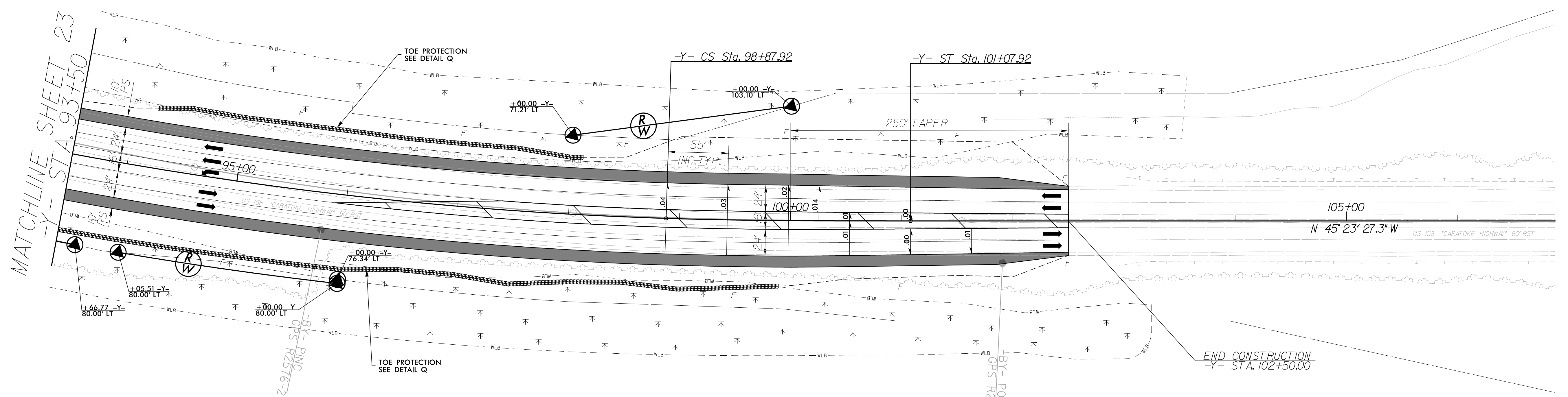
-Y-		
PIs Sta 91+87.20	PI Sta 95+75.07	PIs Sta 99+61.26
$\Theta_s = 1^{\circ}48'02.6''$	$\Delta = 10^{\circ}16'13.8''$ (LT)	$\Theta_s = 1^{\circ}48'02.6''$
$L_s = 220.00'$	$D = 1^{\circ}38'13.3''$	$L_s = 220.00'$
$LT = 146.67'$	$L = 627.39'$	$LT = 146.67'$
$ST = 73.34'$	$T = 314.54'$	$ST = 73.34'$
	$R = 3,500.00'$	
	$SE = 0.04$	



26

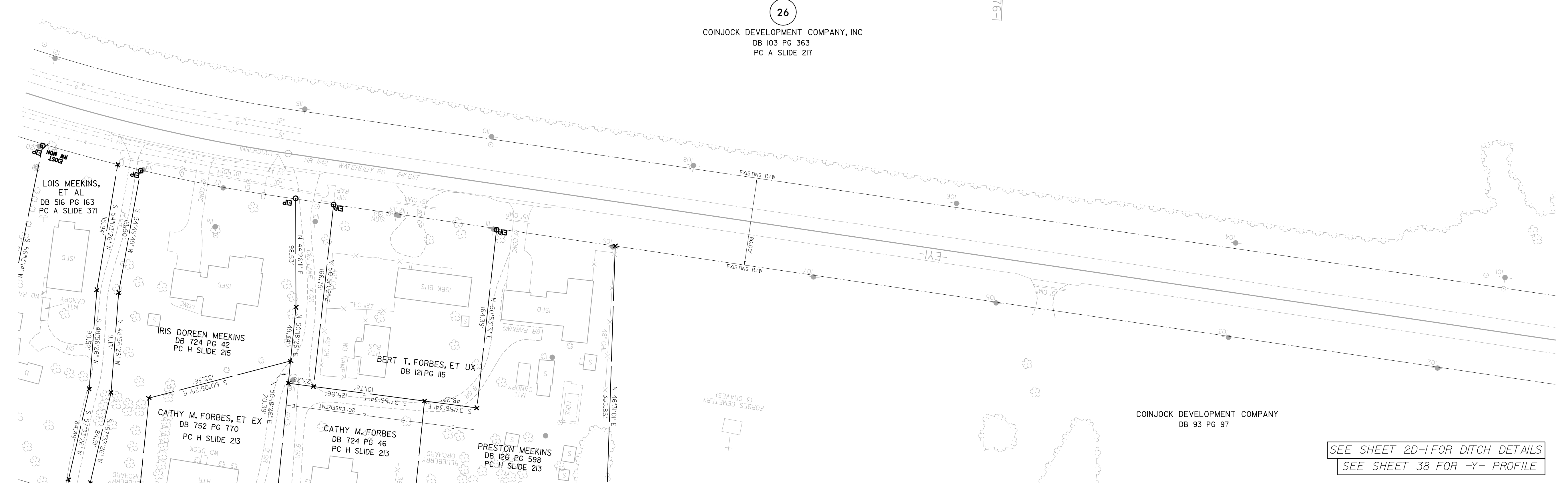
COINJOCK DEVELOPMENT COMPANY, INC  
DB 103 PG 363  
PC A SLIDE 217

PAVED SHOULDER



26

COINJOCK DEVELOPMENT COMPANY, INC  
DB 103 PG 363  
PC A SLIDE 217



COINJOCK DEVELOPMENT COMPANY  
DB 93 PG 97

SEE SHEET 2D-1 FOR DITCH DETAILS  
SEE SHEET 38 FOR -Y- PROFILE

6/17/2024  
R0276-Four-psh24.dgn  
C. DICKLEY

6/2/99

# LOCHNER

H. W. LOCHNER, INC.  
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RALEIGH, NC 27612  
(919) 571-7111



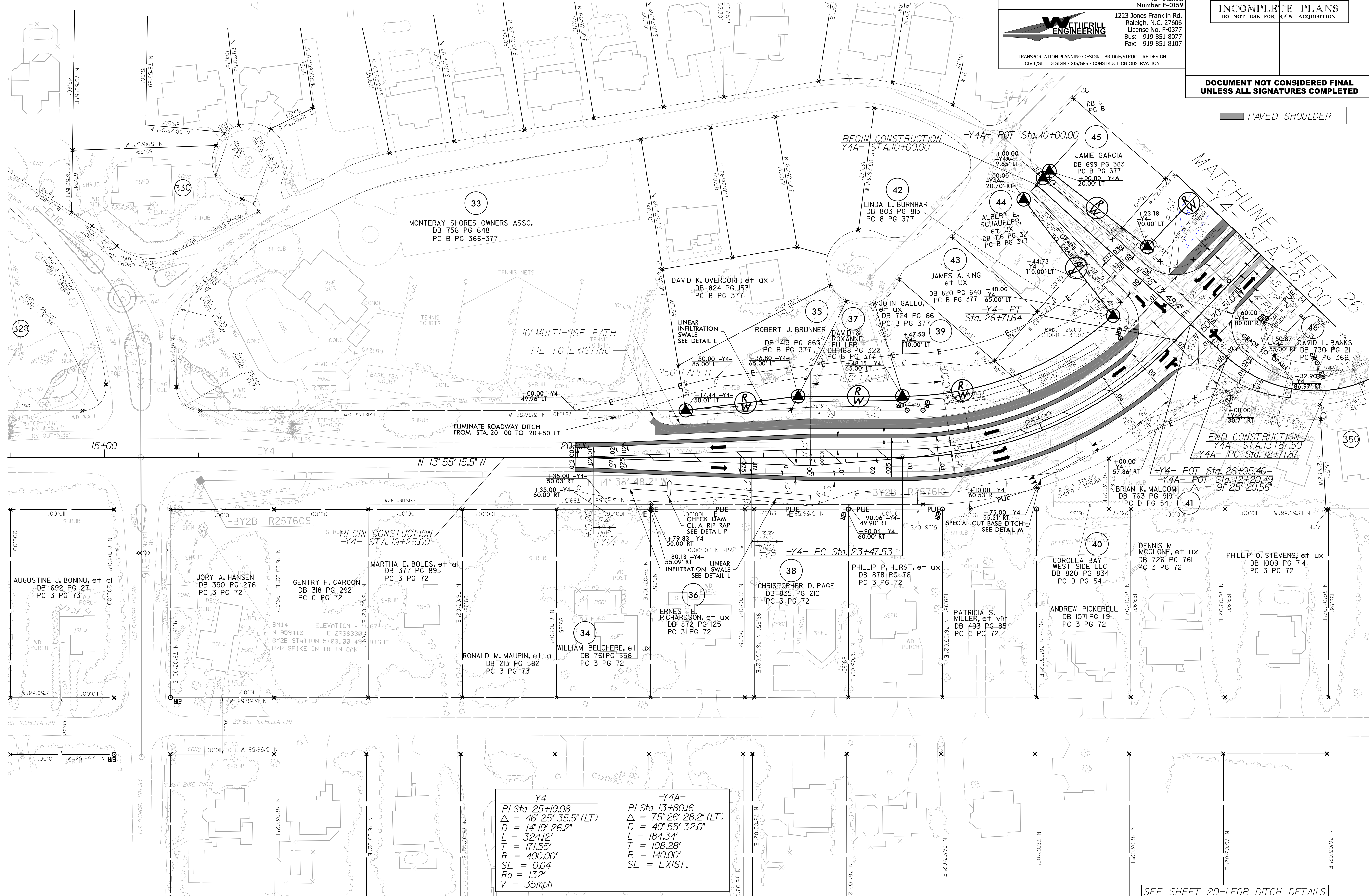
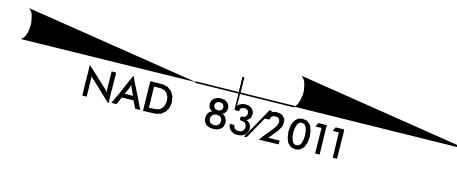
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. **R-2576** SHEET NO. **25**

ROADWAY DESIGN ENGINEER PAVEMENT DESIGN ENGINEER

**INCOMPLETE PLANS**  
DO NOT USE FOR R/W ACQUISITION

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

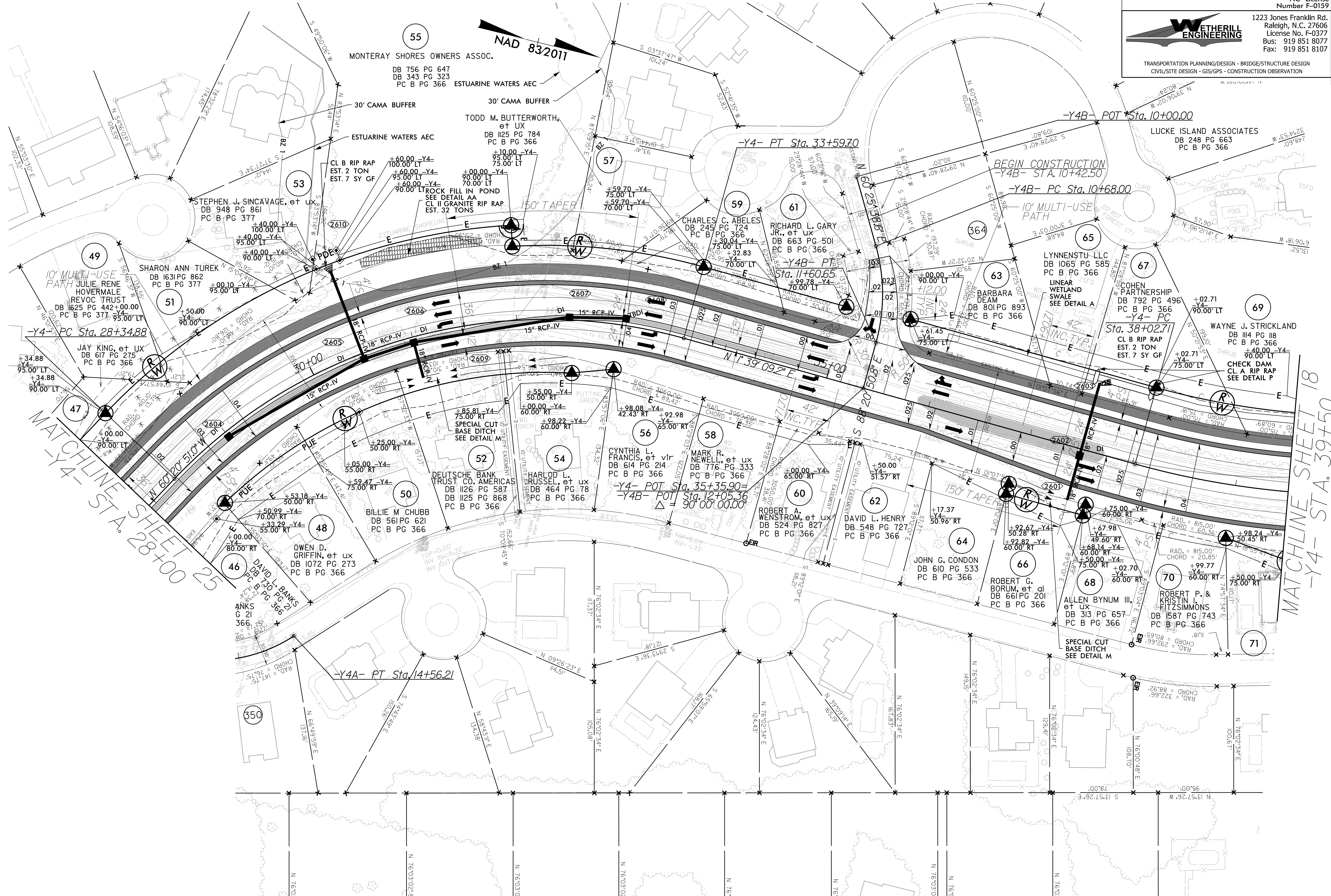


-Y4-	-Y4A-
PI Sta. 25+19.08	PI Sta. 13+80.16
$\Delta = 46^\circ 25' 35.5''$ (LT)	$\Delta = 75^\circ 26' 28.2''$ (LT)
D = 14' 19" 26.2"	D = 40' 55" 32.0"
L = 324.12'	L = 184.34'
T = 171.55'	T = 108.28'
R = 400.00'	R = 140.00'
SE = 0.04	SE = EXIST.
Ro = 132'	
V = 35mph	

SEE SHEET 2D-I FOR DITCH DETAILS  
SEE SHEET 48 FOR -Y4- PROFILE  
SEE SHEET 49 FOR -Y4A- PROFILE

6/17/2024  
R2576-01-psh25.dgn  
C. COCKLEY

PAVED SHOULDER



MATCHLINE SHEET 25  
-Y4- STA. 28+00

MATCHLINE SHEET 18  
-Y4- STA. 39+50

-Y4-		-Y4B-	
PI Sta 31+26.29	PI Sta 41+22.31	PI Sta 11+15.50	
$\Delta = 62^{\circ}00'00.2''$ (RT)	$\Delta = 44^{\circ}03'11.7''$ (LT)	$\Delta = 31^{\circ}13'30.7''$ (RT)	
D = 11' 48" 48.8"	D = 7' 15" 09.5"	D = 33' 42" 12.2"	
L = 524.82'	L = 607.41'	L = 92.65'	
T = 291.42'	T = 319.61'	T = 47.51'	
R = 485.00'	R = 790.00'	R = 170.00'	
SE = 0.04	SE = 0.04	SE = EXIST.	
Ro = 168'	Ro = 168'		

SEE SHEET 22-1 FOR DITCH DETAILS  
SEE SHEET 48 FOR -Y4- PROFILE  
SEE SHEET 49 FOR -Y4B- PROFILE

6/2/99

# LOCHNER

H. W. LOCHNER, INC.  
2840 PLAZA PLACE, SUITE 202  
RALEIGH, NC 27612  
(919) 571-7111



TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. SHEET NO.

R-2576 27

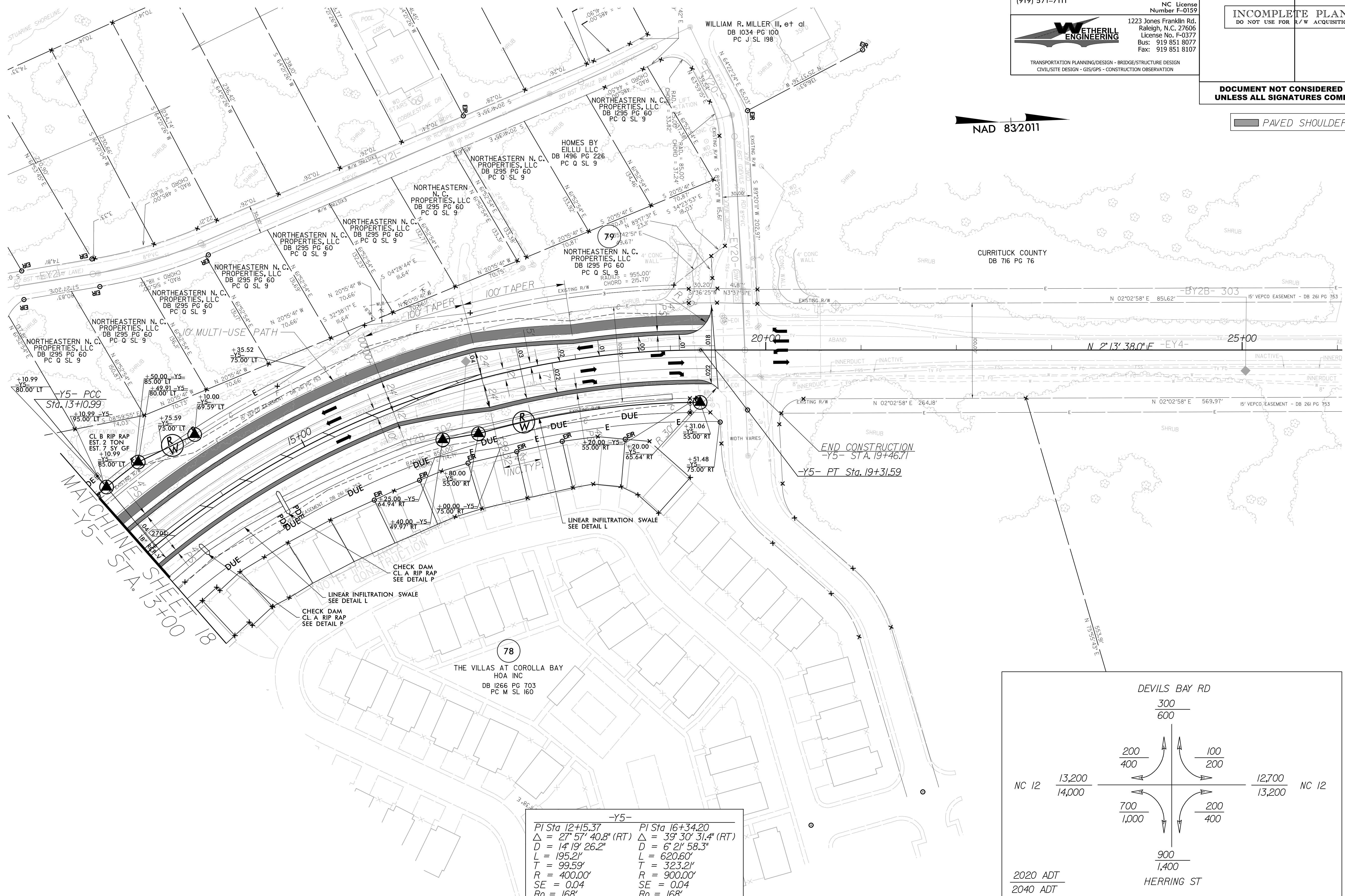
ROADWAY DESIGN ENGINEER PAVEMENT DESIGN ENGINEER

**INCOMPLETE PLANS**  
DO NOT USE FOR R/W ACQUISITION

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

PAVED SHOULDER

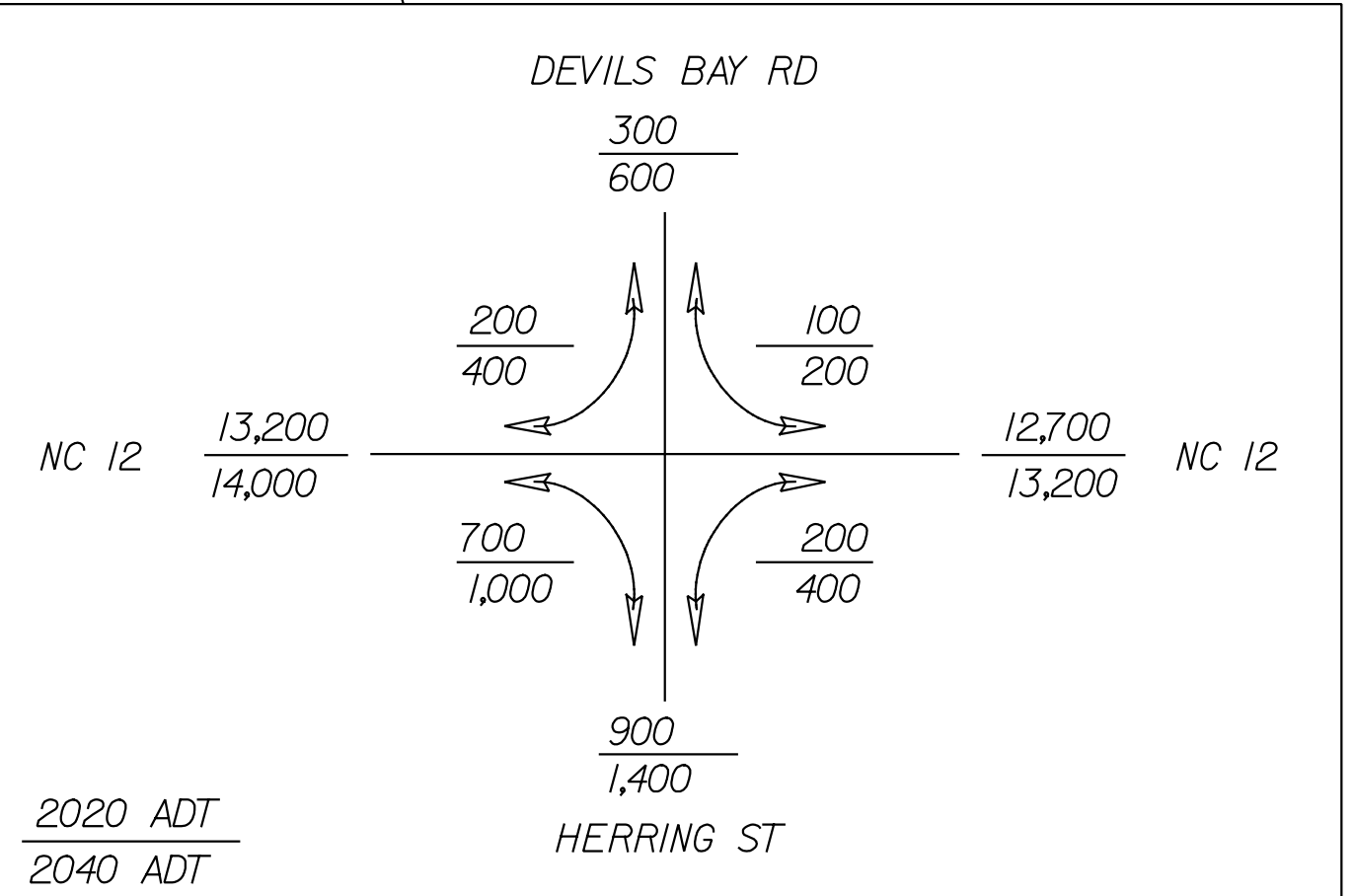
NAD 83/2011



MATCHLINE SHEET 18  
-Y5- STA. 13+00

END CONSTRUCTION  
-Y5- STA. 19+46.71  
-Y5- PT Sta. 19+31.59

-Y5-	
PI Sta 12+15.37	PI Sta 16+34.20
$\Delta = 27^\circ 57' 40.8''$ (RT)	$\Delta = 39^\circ 30' 31.4''$ (RT)
$D = 14^\circ 19' 26.2''$	$D = 6^\circ 21' 58.3''$
$L = 195.21'$	$L = 620.60'$
$T = 99.59'$	$T = 323.21'$
$R = 400.00'$	$R = 900.00'$
$SE = 0.04$	$SE = 0.04$
$Ro = 168'$	$Ro = 168'$
$V = 35\text{mph}$	



SEE SHEET 2D-1 FOR DITCH DETAILS  
SEE SHEET 49 FOR -Y5- PROFILE

6/17/2024  
R63766-04-psh27.dgn  
C. COCKLEY

6/2/2019

6/17/2024  
R2676-Plan-sh28.dgn  
C. KIKLEY

# LOCHNER

H. W. LOCHNER, INC.  
2840 PLAZA PLACE, SUITE 202  
RALEIGH, NC 27612  
(919) 571-7111



1223 Jones Franklin Rd.  
Raleigh, N.C. 27606  
License No. F-0377  
Bus: 919 851 8077  
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

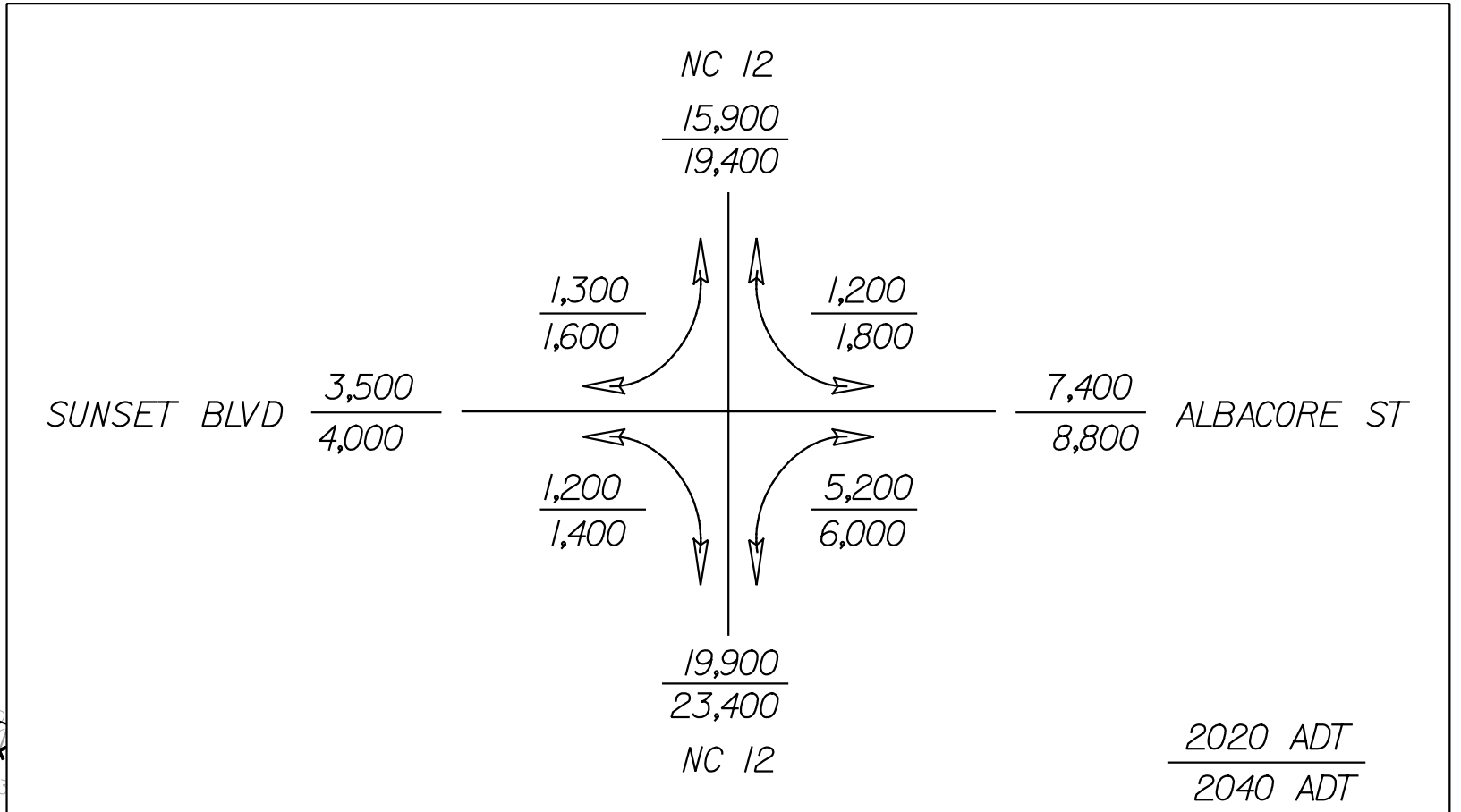
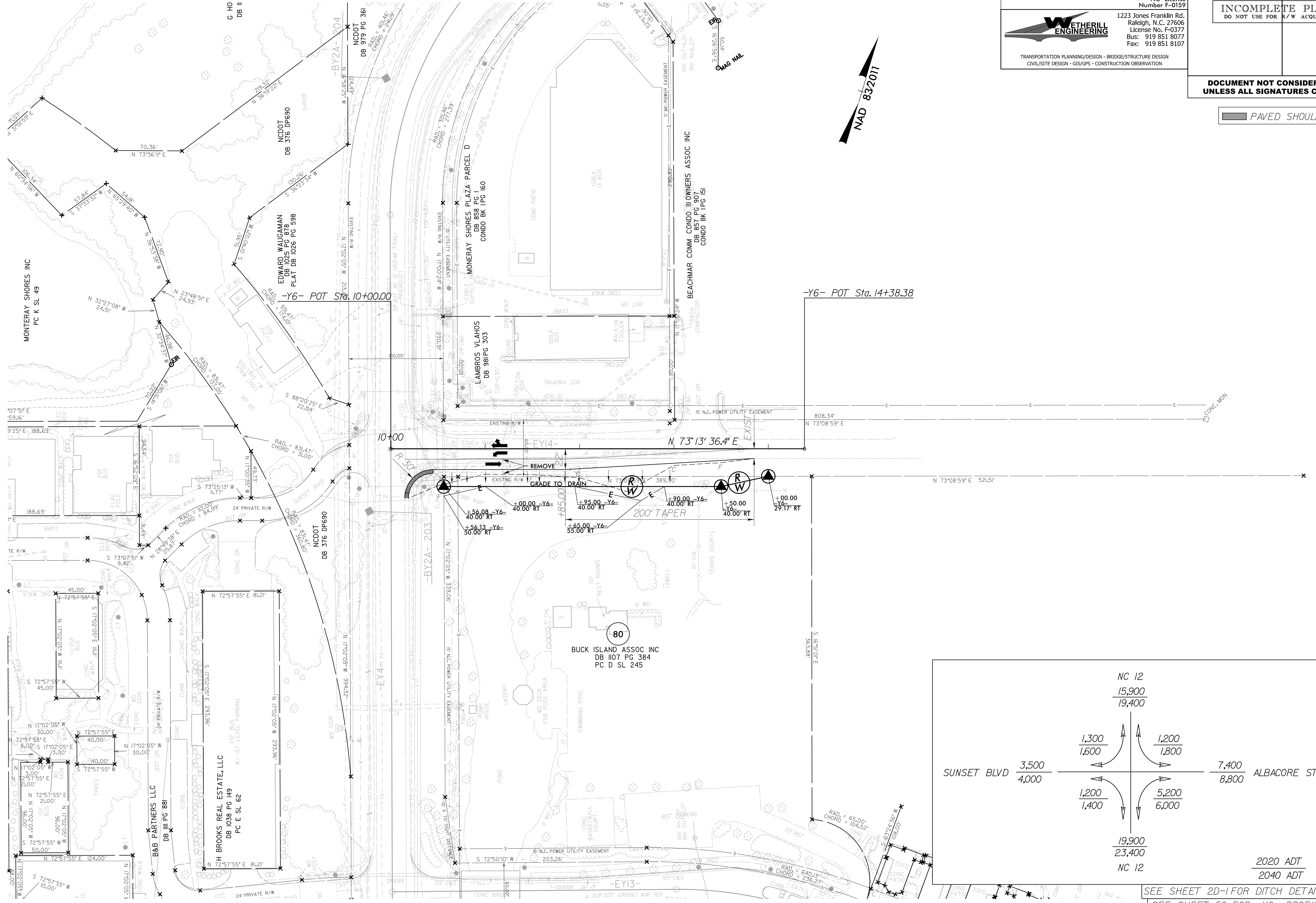
PROJECT REFERENCE NO. **R-2576** SHEET NO. **28**

ROADWAY DESIGN ENGINEER  
PAVEMENT DESIGN ENGINEER

**INCOMPLETE PLANS**  
DO NOT USE FOR R/W ACQUISITION

**DOCUMENT NOT CONSIDERED FINAL**  
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PAVED SHOULDER



SEE SHEET 2D-1 FOR DITCH DETAILS  
SEE SHEET 50 FOR -Y6- PROFILE

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RALEIGH, NC 27612  
(919) 571-7111

NC License  
Number F-0159



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Raleigh, N.C. 27606  
License No. F-0377  
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Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. SHEET NO.

R-2576

29

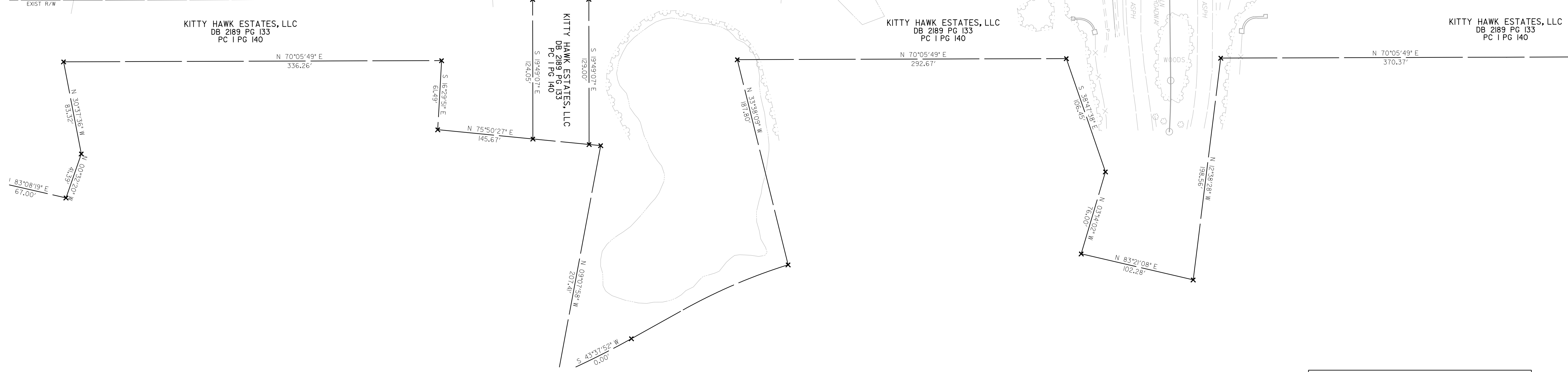
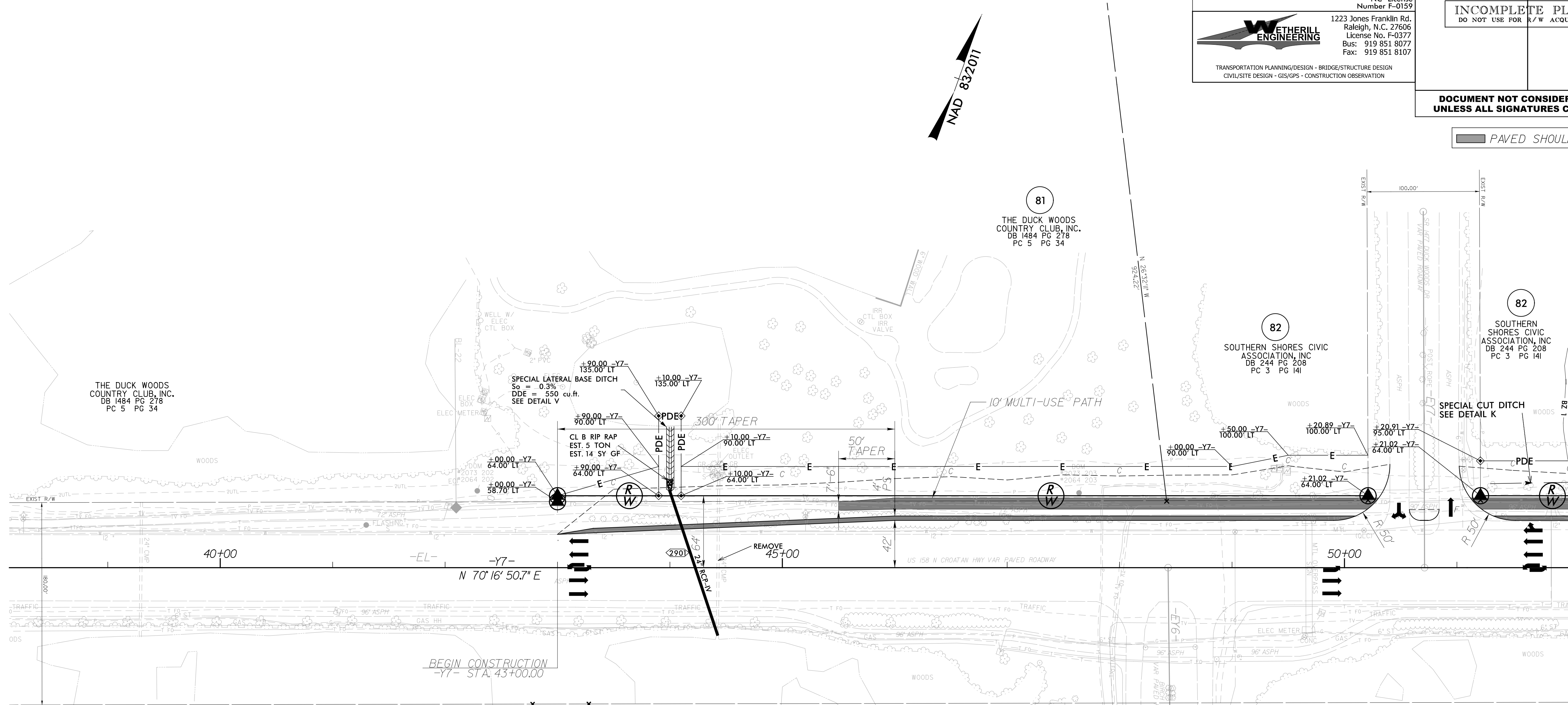
ROADWAY DESIGN ENGINEER

PAVEMENT DESIGN ENGINEER

**INCOMPLETE PLANS**  
DO NOT USE FOR R/W ACQUISITION

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

PAVED SHOULDER



MATCHLINE SHEET 30  
-Y7- STA. 52+00

SEE SHEET 2D-I FOR DITCH DETAILS  
SEE SHEET 50 FOR -Y7- PROFILE

6/17/2024  
RGS  
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RALEIGH, NC 27612  
(919) 571-7111

NC License  
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Raleigh, N.C. 27606  
License No. F-0377  
Bus: 919 851 8077  
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.

R-2576

SHEET NO.

30

ROADWAY DESIGN  
ENGINEER

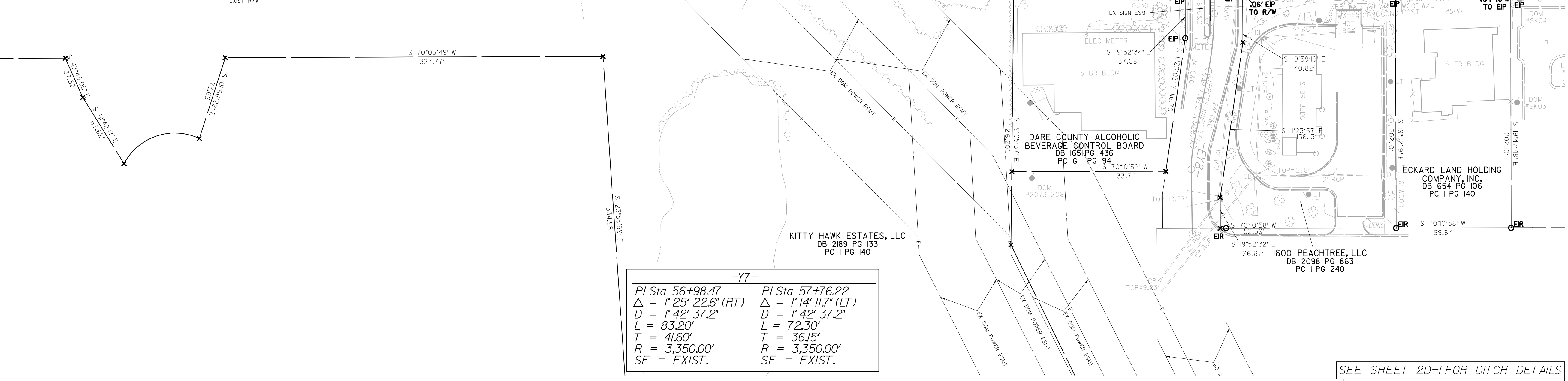
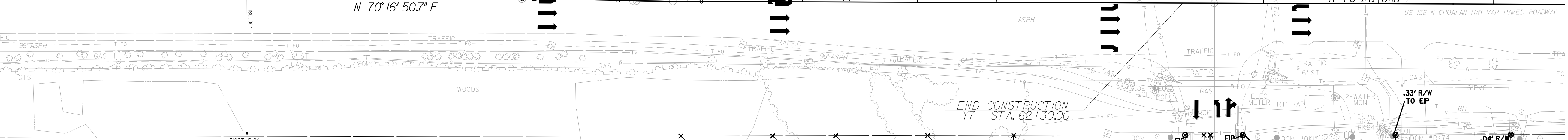
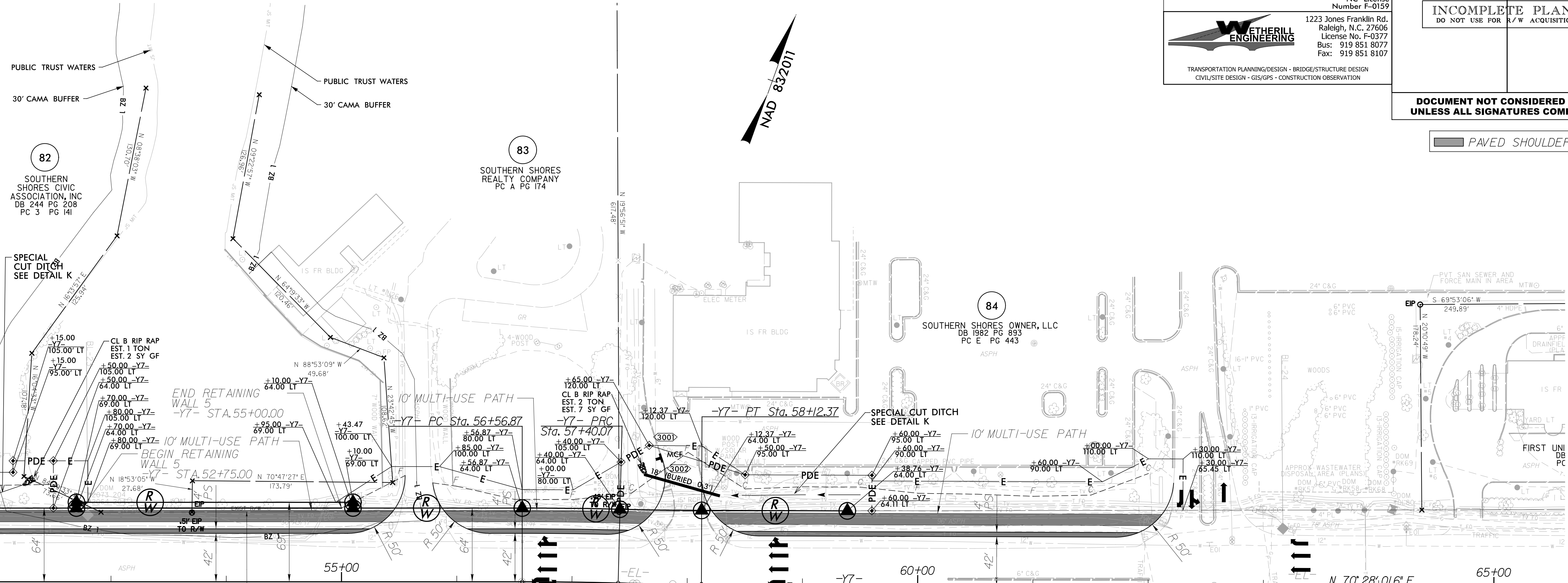
PAVEMENT DESIGN  
ENGINEER

**INCOMPLETE PLANS**  
DO NOT USE FOR R/W ACQUISITION

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



MATCHLINE SHEET 29  
-Y7- STA. 52+00



-Y7-	
PI Sta. 56+98.47	PI Sta. 57+76.22
$\Delta = 1' 25' 22.6''$ (RT)	$\Delta = 1' 14' 11.7''$ (LT)
$D = 1' 42' 37.2''$	$D = 1' 42' 37.2''$
$L = 83.20'$	$L = 72.30'$
$T = 41.60'$	$T = 36.15'$
$R = 3,350.00'$	$R = 3,350.00'$
SE = EXIST.	SE = EXIST.

SEE SHEET 2D-I FOR DITCH DETAILS  
SEE SHEET 5I FOR -Y7- PROFILE

6/17/2024  
R0276-F01--psh30.dgn  
CLOKLEY

5/28/99

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2840 PLAZA PLACE, SUITE 202  
RALEIGH, NC 27612  
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Number F-0159



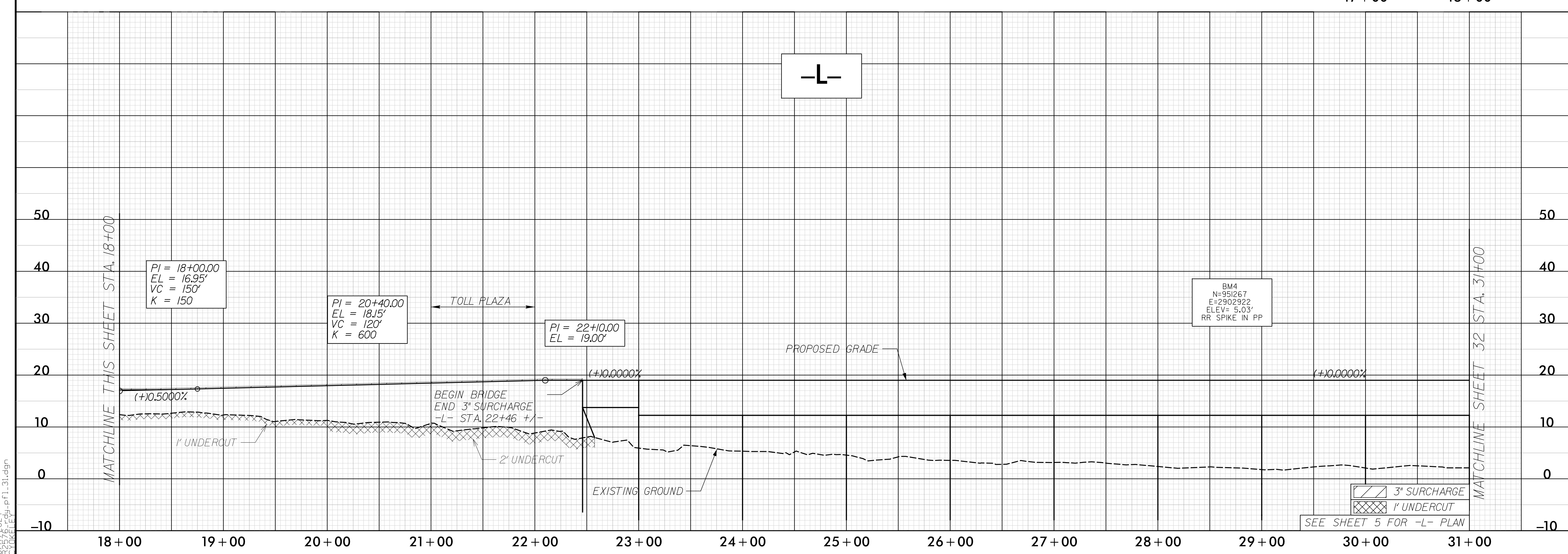
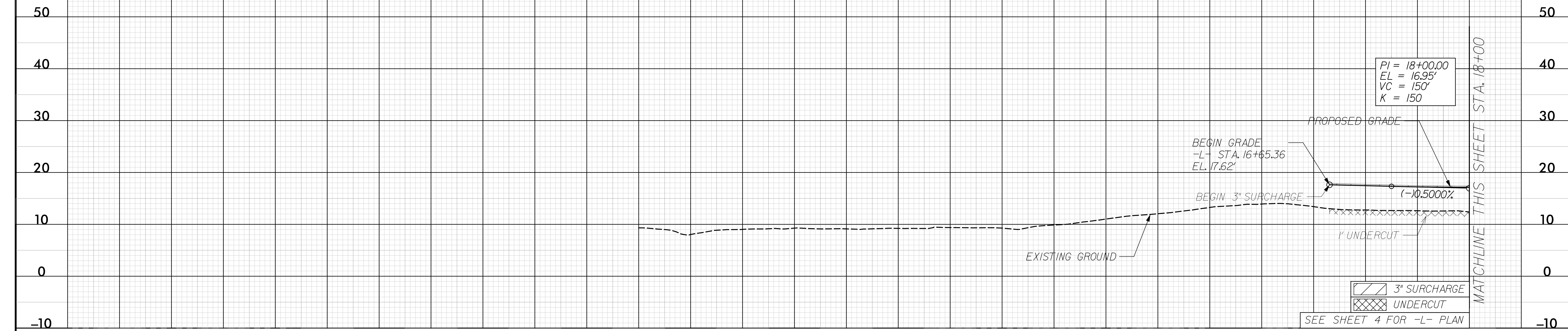
1223 Jones Franklin Rd.  
Raleigh, N.C. 27606  
License No. F-0377  
Bus: 919 851 8077  
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. R-2576 SHEET NO. 31

ROADWAY DESIGN ENGINEER HYDRAULICS ENGINEER

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Fax: 919 851 8107

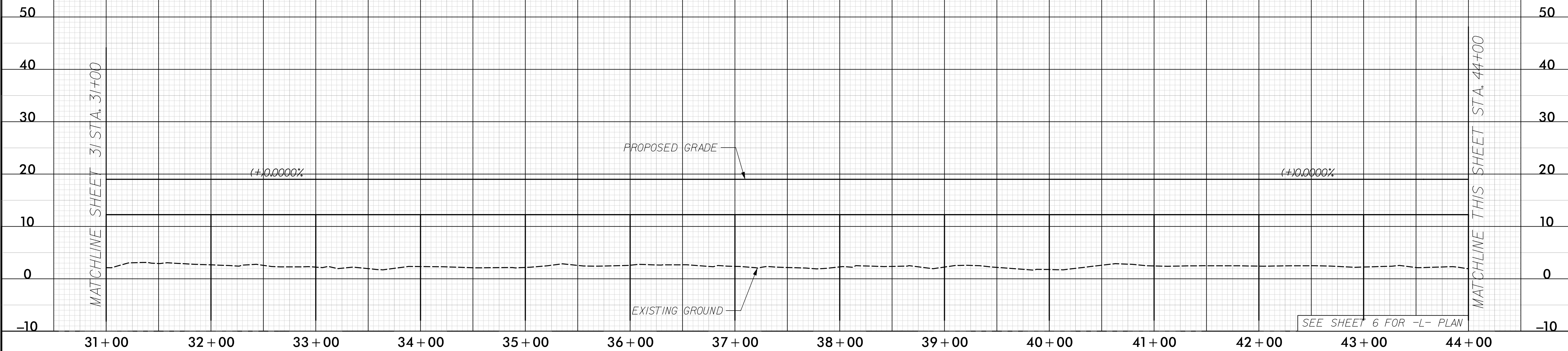
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. R-2576 SHEET NO. 32

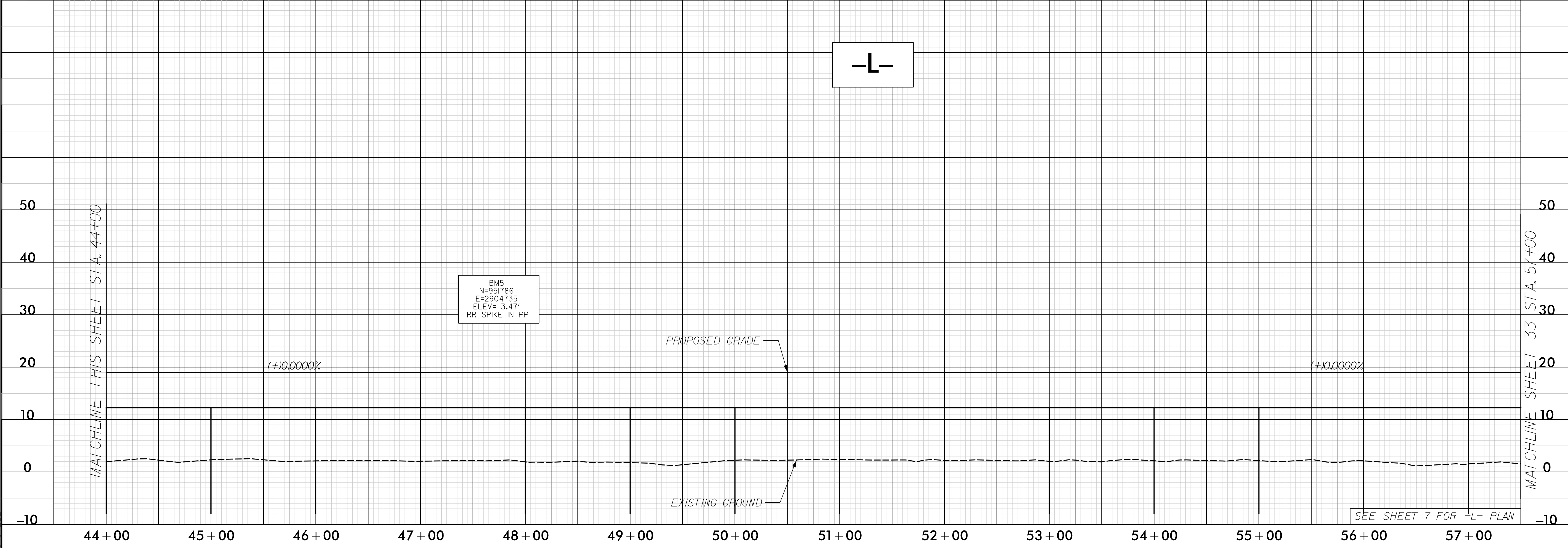
ROADWAY DESIGN ENGINEER HYDRAULICS ENGINEER

**DOCUMENT NOT CONSIDERED FINAL  
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-L-



-L-



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RALEIGH, NC 27612  
(919) 571-7111

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Raleigh, N.C. 27606  
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Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.

R-2576

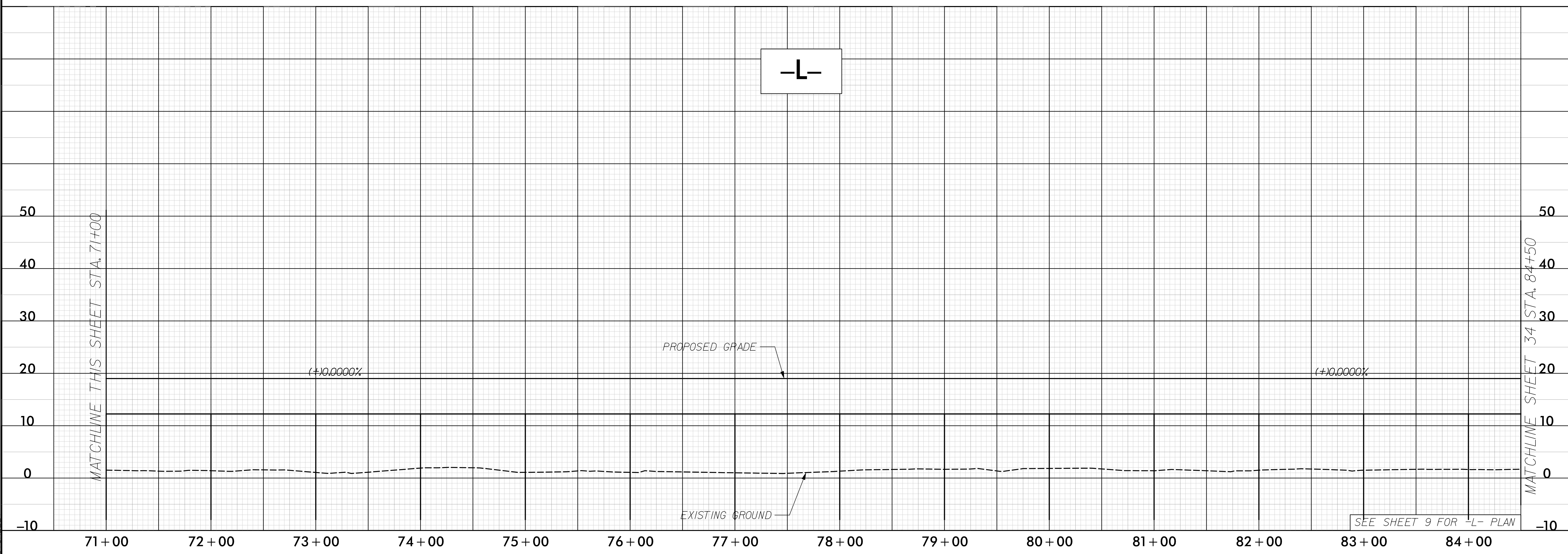
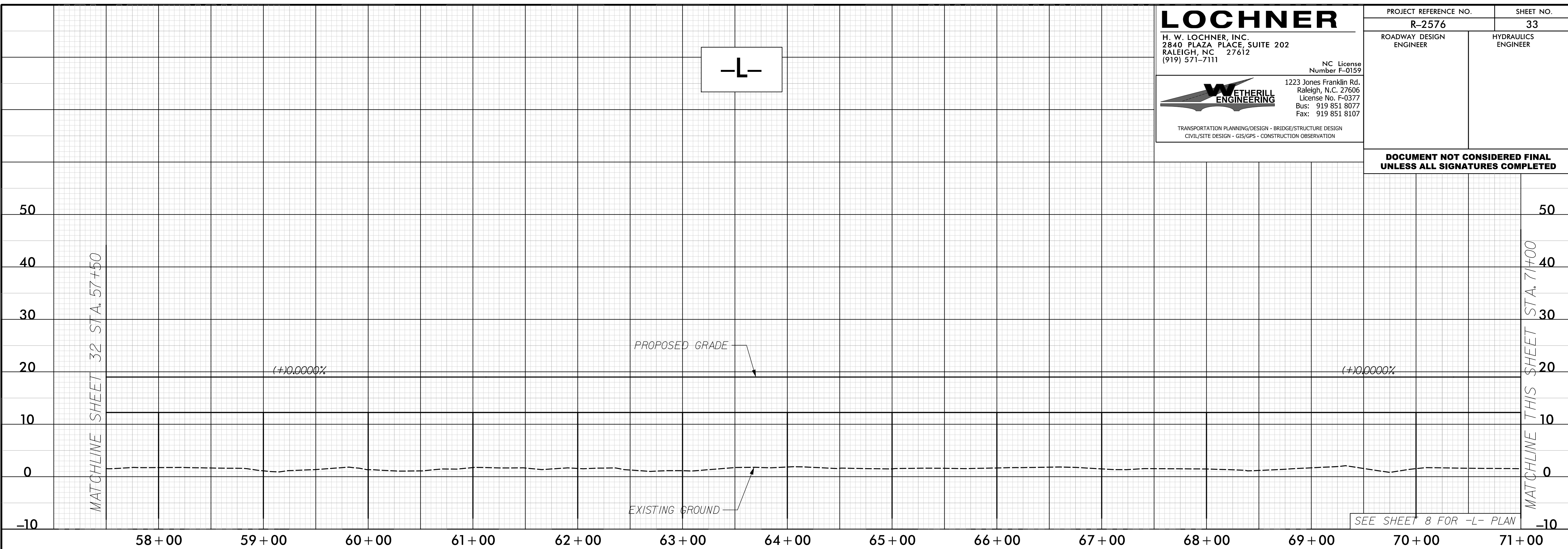
SHEET NO.

33

ROADWAY DESIGN  
ENGINEER

HYDRAULICS  
ENGINEER

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



6/17/2024  
R06/16/24-FL-33.dgn  
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(919) 571-7111

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Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.

R-2576

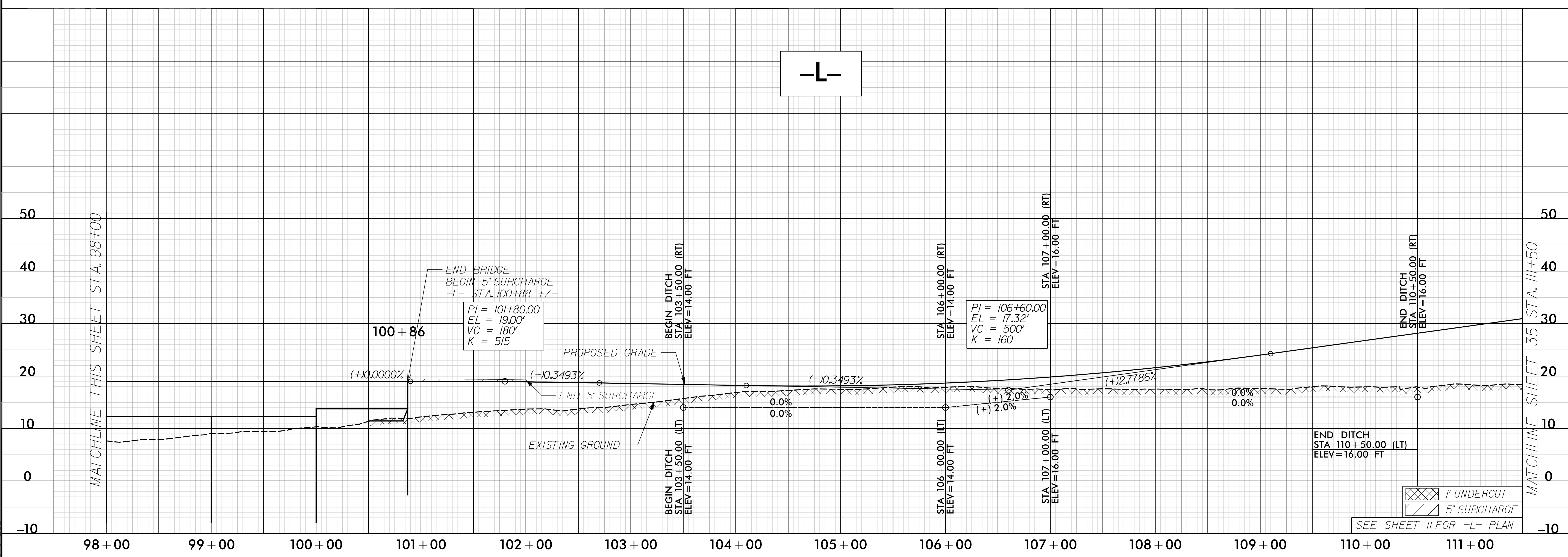
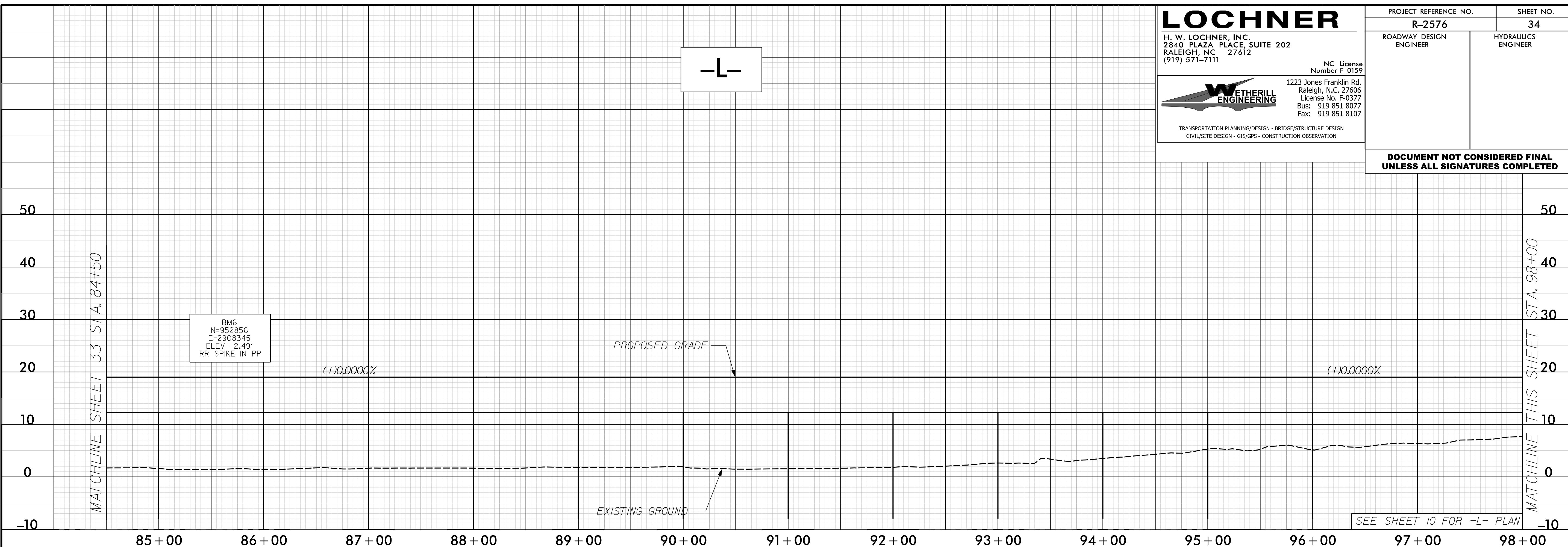
SHEET NO.

34

ROADWAY DESIGN  
ENGINEER

HYDRAULICS  
ENGINEER

**DOCUMENT NOT CONSIDERED FINAL  
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6/17/2024  
R0676\_F04-P1L34.dgn  
C:\WORK\LOCHNER

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# LOCHNER

H. W. LOCHNER, INC.  
2840 PLAZA PLACE, SUITE 202  
RALEIGH, NC 27612  
(919) 571-7111



TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.

R-2576

SHEET NO.

35

ROADWAY DESIGN  
ENGINEER

HYDRAULICS  
ENGINEER

NC License  
Number F-0159

1223 Jones Franklin Rd.  
Raleigh, N.C. 27606  
License No. F-0377  
Bus: 919 851 8077  
Fax: 919 851 8107

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

PIPE HYDRAULIC DATA		
18" RCP-IV Sta. 114+00 -L-		
DRAINAGE AREA	= 3.3	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 4.7	CFS
DESIGN HW ELEVATION	= 16.4	FT
100 YEAR DISCHARGE	= 5.2	CFS
100 YEAR HW ELEVATION	= 16.5	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 10.3	CFS
OVERTOPPING ELEVATION	= 18.2	FT

-L-

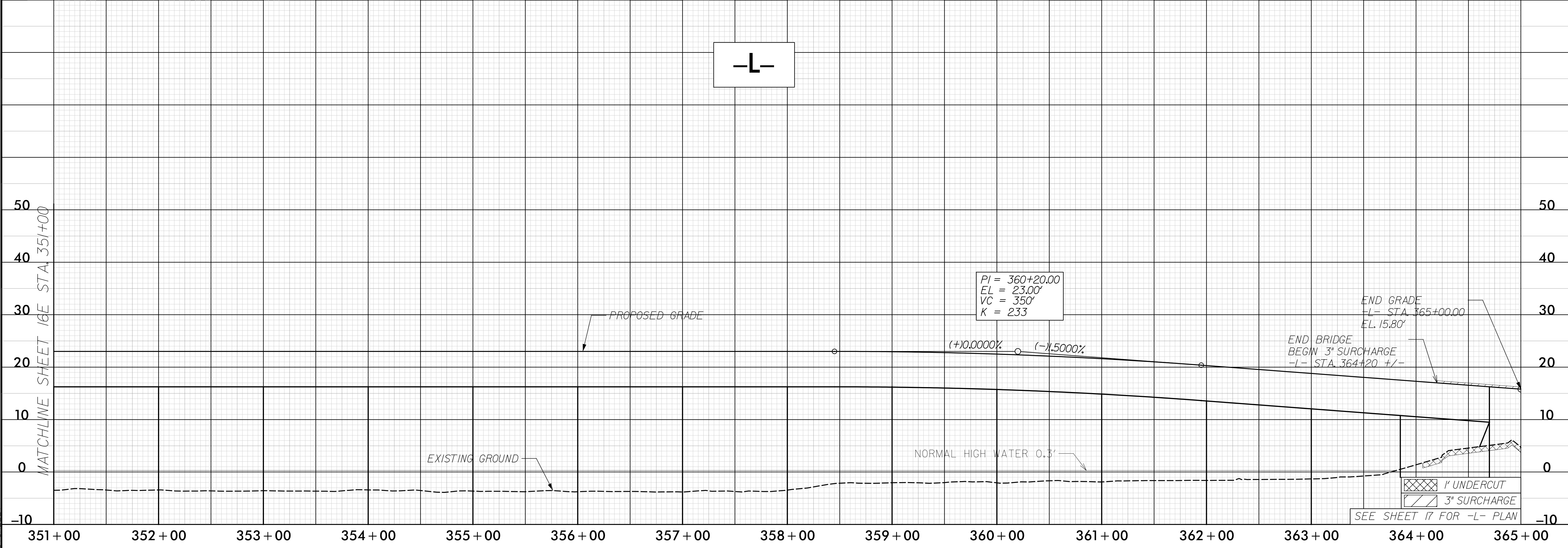
CL -Y3-  
NARROW SHORE RD.

PI = 118+00.00  
EL = 49.00'  
VC = 900'  
K = 156

B.M.  
N=954241  
E=2911362  
ELEV= 20.17'  
RR SPIKE IN 14' PINE



-L-



6/17/2024  
R02076-FCU-p1.35.dgn  
C:\WORK\PROJECTS\2024\06\17\2024-06-17-11-35.dgn

5/28/99

# LOCHNER

H. W. LOCHNER, INC.  
2840 PLAZA PLACE, SUITE 202  
RALEIGH, NC 27612  
(919) 571-7111

NC License  
Number F-0159



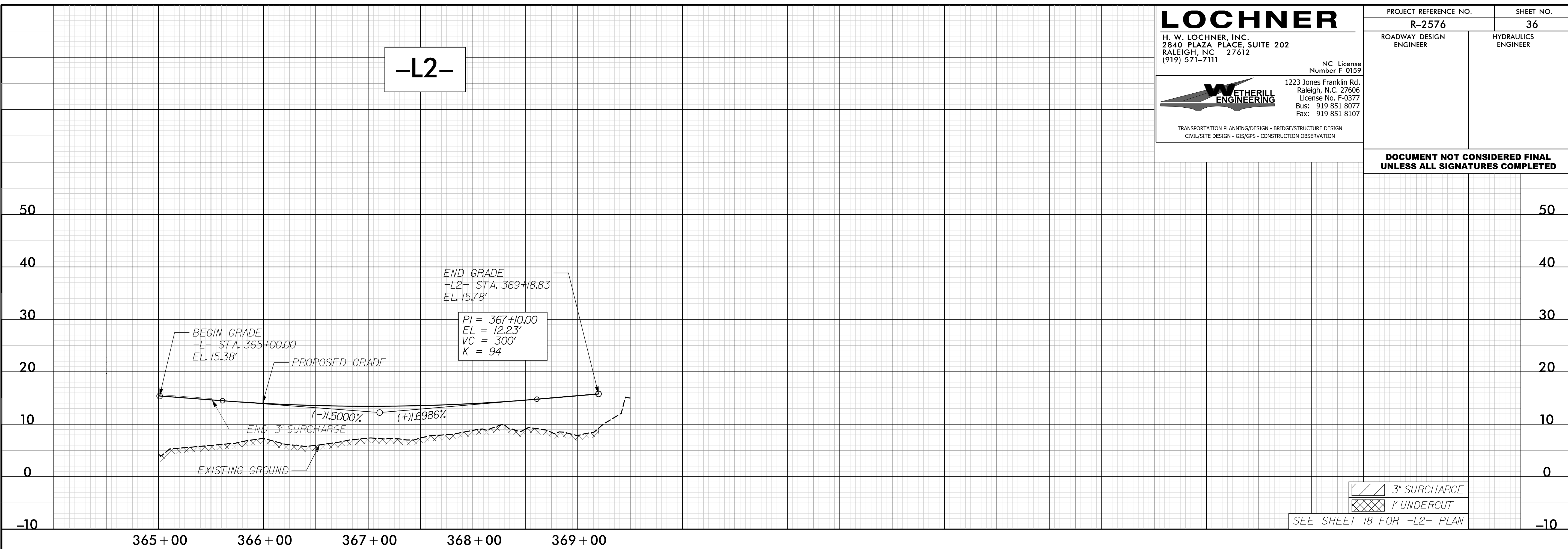
1223 Jones Franklin Rd.  
Raleigh, N.C. 27606  
License No. F-0377  
Bus: 919 851 8077  
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. R-2576 SHEET NO. 36

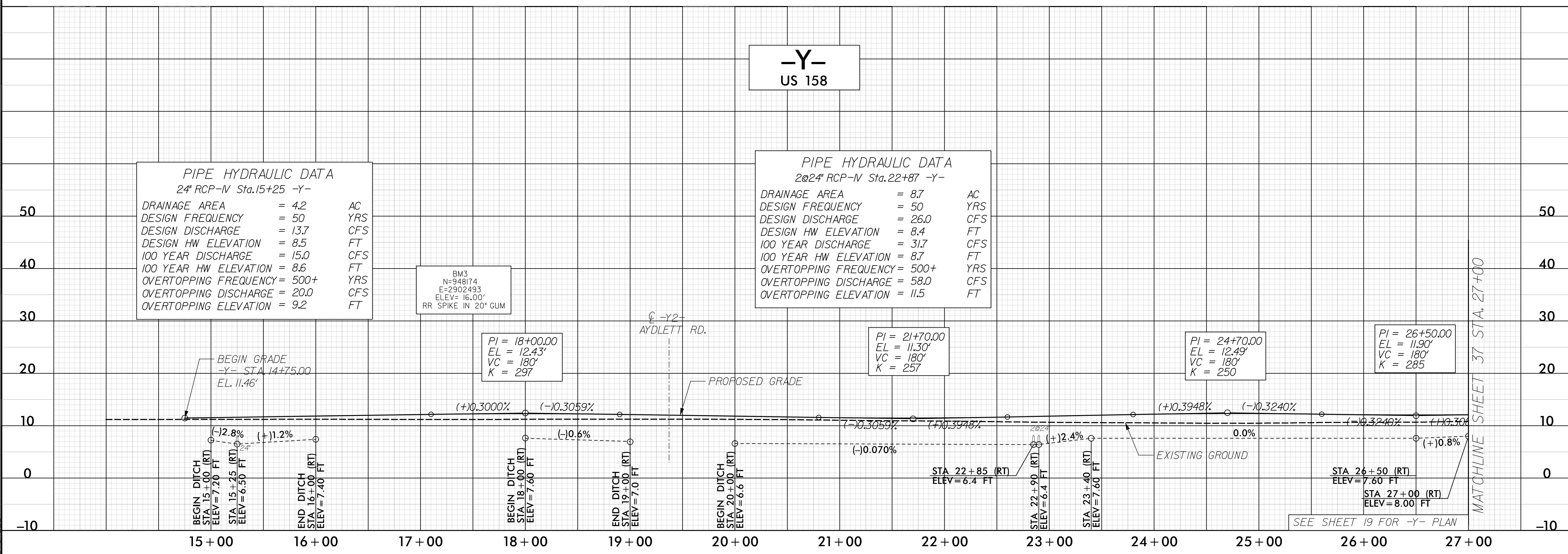
ROADWAY DESIGN ENGINEER HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED



3" SURCHARGE  
1' UNDERCUT

SEE SHEET 18 FOR -L2- PLAN



**PIPE HYDRAULIC DATA**  
24" RCP-N Sta. 15+25 -Y-

DRAINAGE AREA	= 4.2	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 13.7	CFS
DESIGN HW ELEVATION	= 8.5	FT
100 YEAR DISCHARGE	= 15.0	CFS
100 YEAR HW ELEVATION	= 8.6	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 20.0	CFS
OVERTOPPING ELEVATION	= 9.2	FT

**PIPE HYDRAULIC DATA**  
2@24" RCP-N Sta. 22+87 -Y-

DRAINAGE AREA	= 8.7	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 26.0	CFS
DESIGN HW ELEVATION	= 8.4	FT
100 YEAR DISCHARGE	= 31.7	CFS
100 YEAR HW ELEVATION	= 8.7	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 58.0	CFS
OVERTOPPING ELEVATION	= 11.5	FT

BM3  
N=948174  
E=2902493  
ELEV= 16.00'  
RR SPIKE IN 20° GUM

MATCHLINE SHEET 37 STA. 27+00

SEE SHEET 19 FOR -Y- PLAN

6/17/2024  
R02/676-F04-P1.36.dgn  
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# LOCHNER

H. W. LOCHNER, INC.  
2840 PLAZA PLACE, SUITE 202  
RALEIGH, NC 27612  
(919) 571-7111

NC License  
Number F-0159



1223 Jones Franklin Rd.  
Raleigh, N.C. 27606  
License No. F-0377  
Bus: 919 851 8077  
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
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PROJECT REFERENCE NO.

R-2576

SHEET NO.

37

ROADWAY DESIGN  
ENGINEER

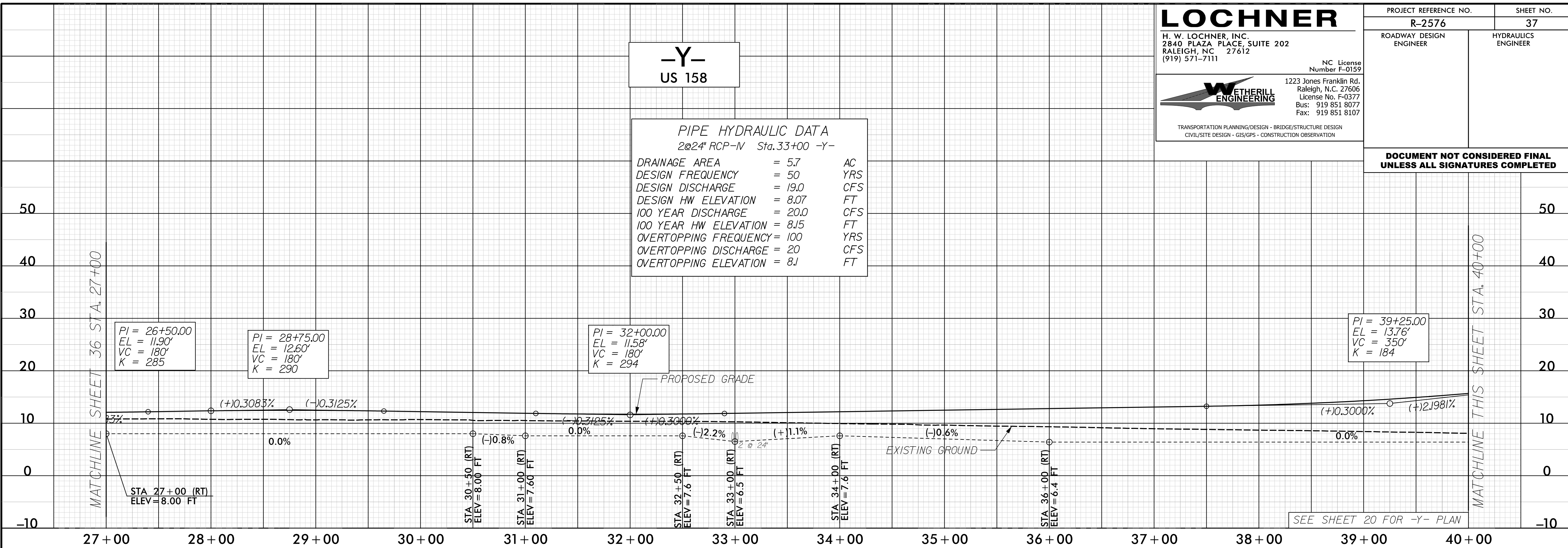
HYDRAULICS  
ENGINEER

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**-Y-**  
US 158

**PIPE HYDRAULIC DATA**  
2@24" RCP-IV Sta.33+00 -Y-

DRAINAGE AREA	= 5.7	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 19.0	CFS
DESIGN HW ELEVATION	= 8.07	FT
100 YEAR DISCHARGE	= 20.0	CFS
100 YEAR HW ELEVATION	= 8.15	FT
OVERTOPPING FREQUENCY	= 100	YRS
OVERTOPPING DISCHARGE	= 20	CFS
OVERTOPPING ELEVATION	= 8.1	FT



SEE SHEET 20 FOR -Y- PLAN

**-Y-**  
US 158

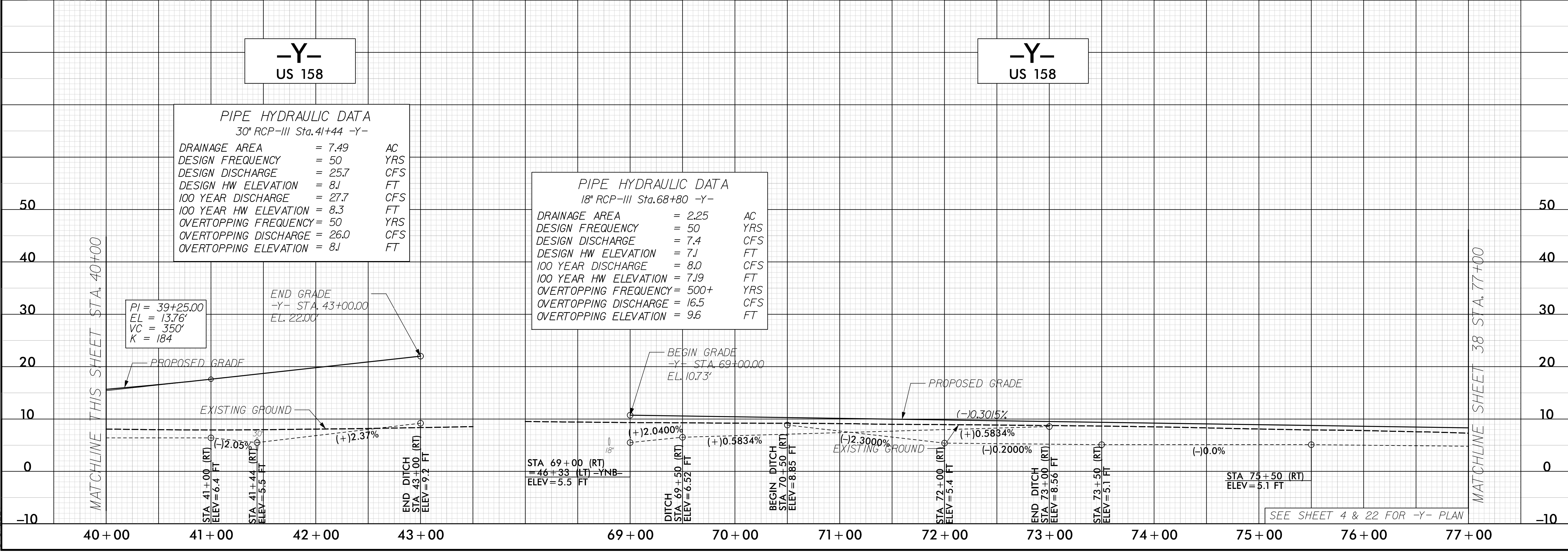
**-Y-**  
US 158

**PIPE HYDRAULIC DATA**  
30" RCP-III Sta.41+44 -Y-

DRAINAGE AREA	= 7.49	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 25.7	CFS
DESIGN HW ELEVATION	= 8.1	FT
100 YEAR DISCHARGE	= 27.7	CFS
100 YEAR HW ELEVATION	= 8.3	FT
OVERTOPPING FREQUENCY	= 50	YRS
OVERTOPPING DISCHARGE	= 26.0	CFS
OVERTOPPING ELEVATION	= 8.1	FT

**PIPE HYDRAULIC DATA**  
18" RCP-III Sta.68+80 -Y-

DRAINAGE AREA	= 2.25	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 7.4	CFS
DESIGN HW ELEVATION	= 7.1	FT
100 YEAR DISCHARGE	= 8.0	CFS
100 YEAR HW ELEVATION	= 7.19	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 16.5	CFS
OVERTOPPING ELEVATION	= 9.6	FT



SEE SHEET 4 & 22 FOR -Y- PLAN

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R-2576-04-pfl-37.dgn  
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License No. F-0377  
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Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.

R-2576

SHEET NO.

38

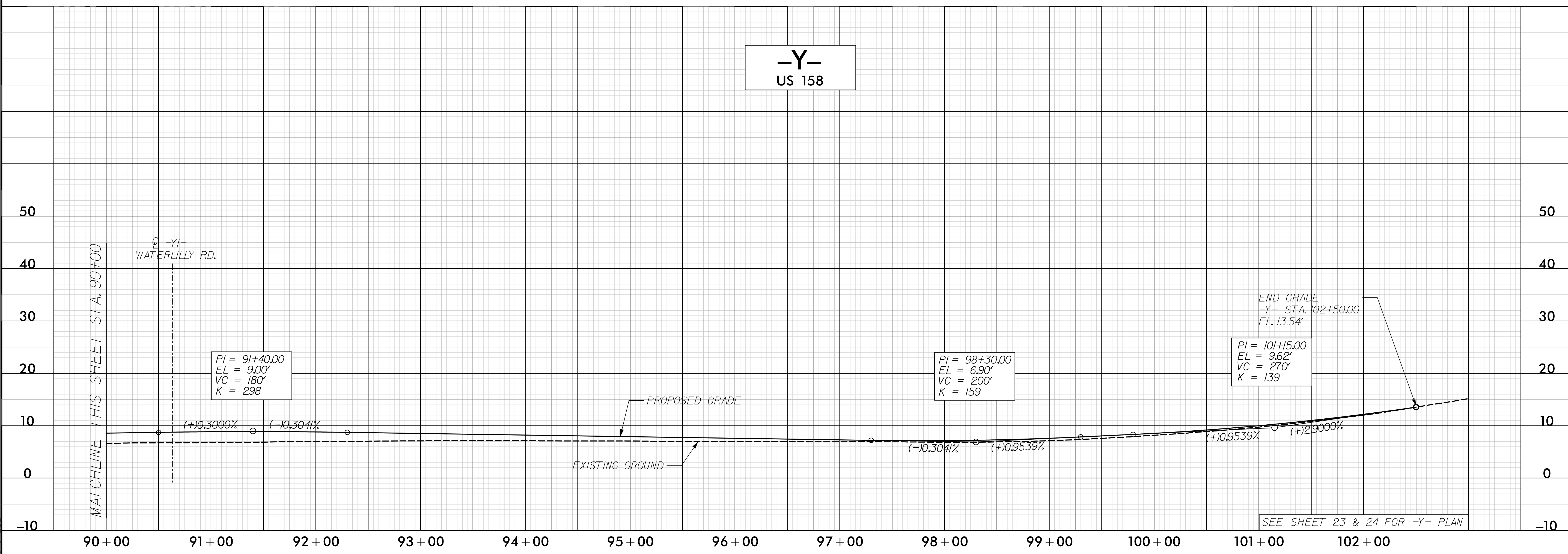
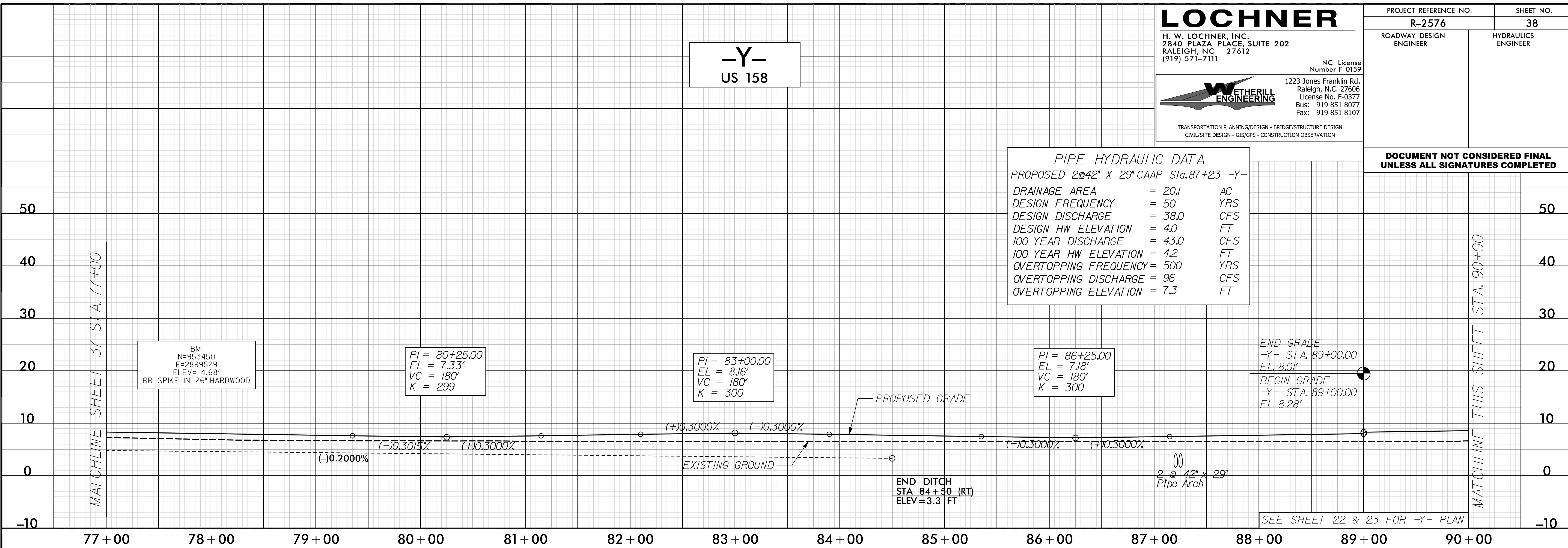
ROADWAY DESIGN  
ENGINEER

HYDRAULICS  
ENGINEER

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PIPE HYDRAULIC DATA  
PROPOSED 2@42" X 29" CAAP Sta.87+23 -Y-

DRAINAGE AREA	= 20.1	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 38.0	CFS
DESIGN HW ELEVATION	= 4.0	FT
100 YEAR DISCHARGE	= 43.0	CFS
100 YEAR HW ELEVATION	= 4.2	FT
OVERTOPPING FREQUENCY	= 500	YRS
OVERTOPPING DISCHARGE	= 96	CFS
OVERTOPPING ELEVATION	= 7.3	FT



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CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.

R-2576

SHEET NO.

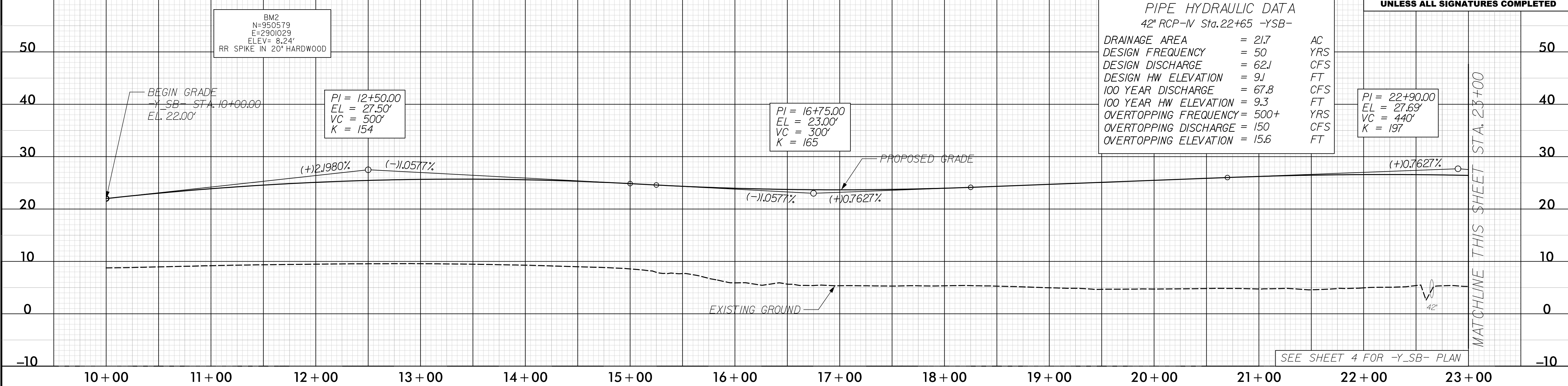
39

ROADWAY DESIGN  
ENGINEER

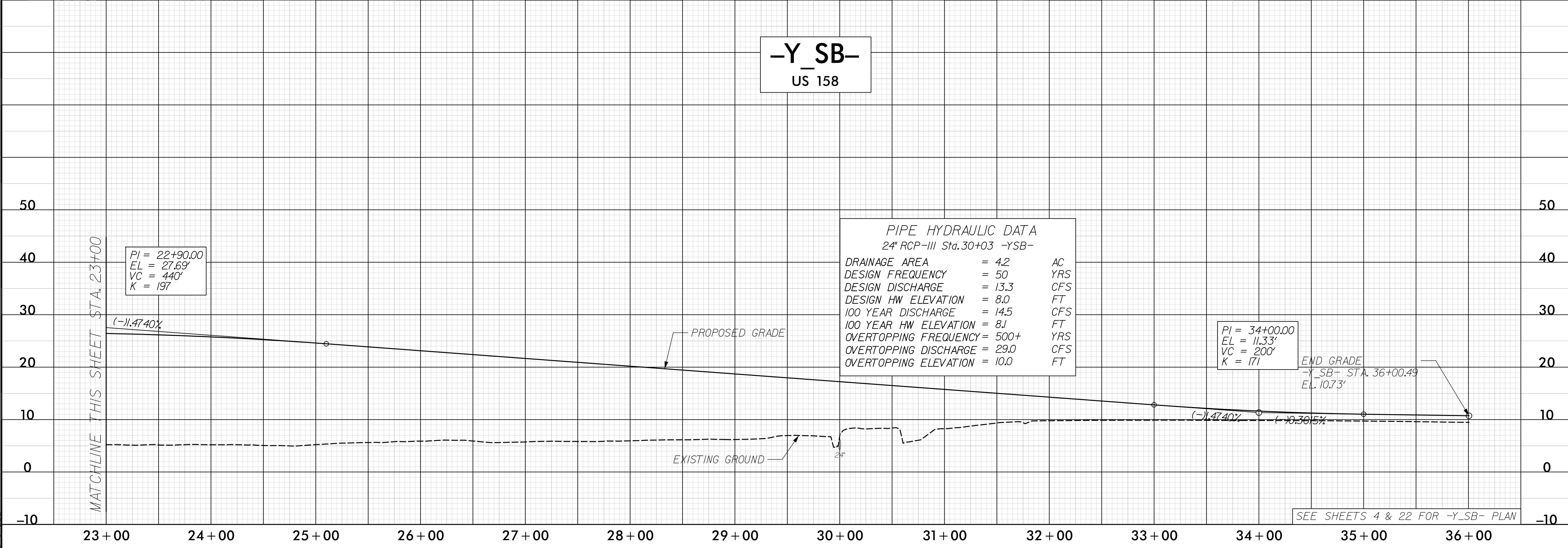
HYDRAULICS  
ENGINEER

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## -Y\_SB- US 158



## -Y\_SB- US 158



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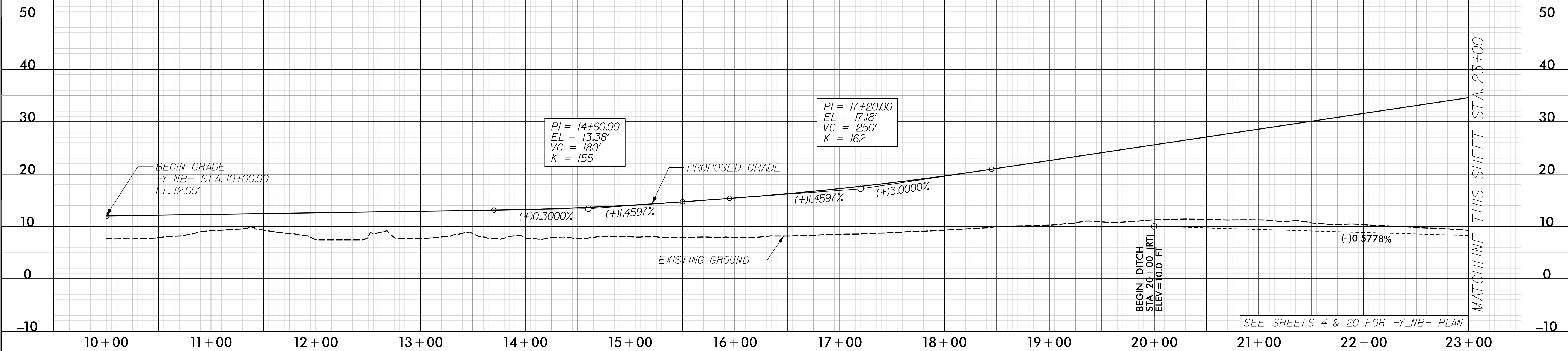
WETHERILL ENGINEERING  
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. R-2576 SHEET NO. 40

ROADWAY DESIGN ENGINEER HYDRAULICS ENGINEER

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## -Y\_NB- US 158



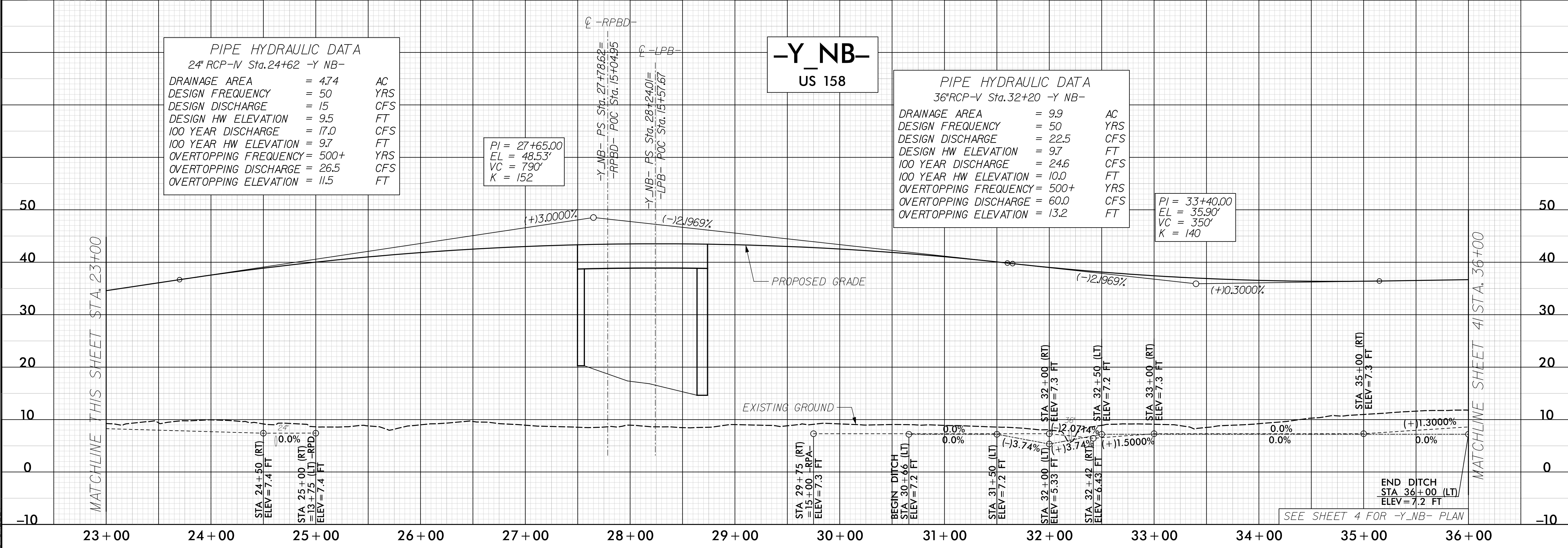
PIPE HYDRAULIC DATA  
24" RCP-V Sta. 24+62 -Y NB-

DRAINAGE AREA	= 4.74	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 15	CFS
DESIGN HW ELEVATION	= 9.5	FT
100 YEAR DISCHARGE	= 17.0	CFS
100 YEAR HW ELEVATION	= 9.7	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 26.5	CFS
OVERTOPPING ELEVATION	= 11.5	FT

## -Y\_NB- US 158

PIPE HYDRAULIC DATA  
36" RCP-V Sta. 32+20 -Y NB-

DRAINAGE AREA	= 9.9	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 22.5	CFS
DESIGN HW ELEVATION	= 9.7	FT
100 YEAR DISCHARGE	= 24.6	CFS
100 YEAR HW ELEVATION	= 10.0	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 60.0	CFS
OVERTOPPING ELEVATION	= 13.2	FT



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CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.

R-2576

SHEET NO.

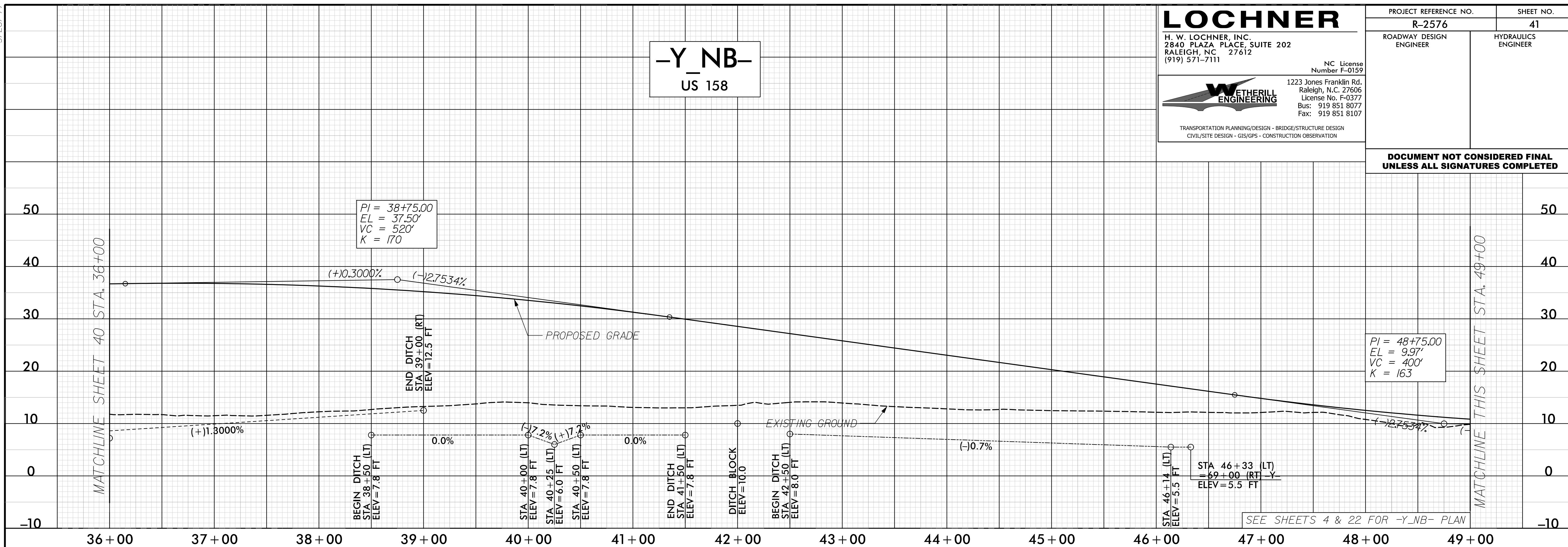
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ROADWAY DESIGN  
ENGINEER

HYDRAULICS  
ENGINEER

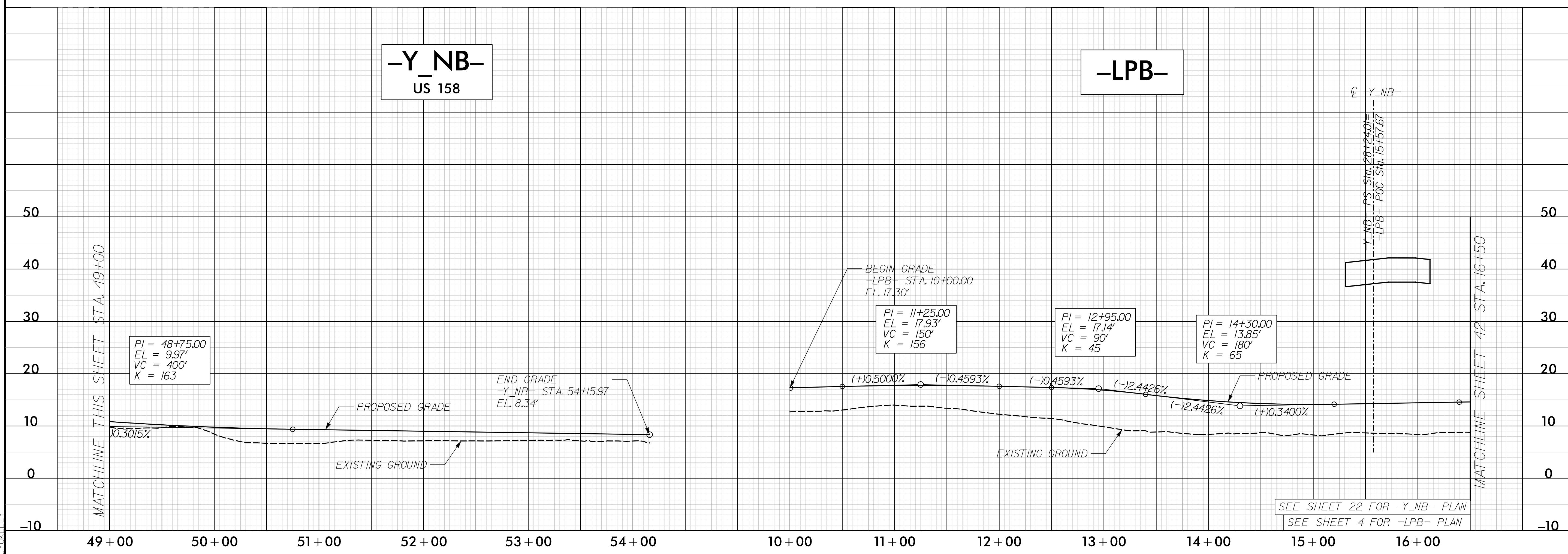
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## -Y\_NB- US 158



## -Y\_NB- US 158

## -LPB-



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Fax: 919 851 8107

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CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.

R-2576

SHEET NO.

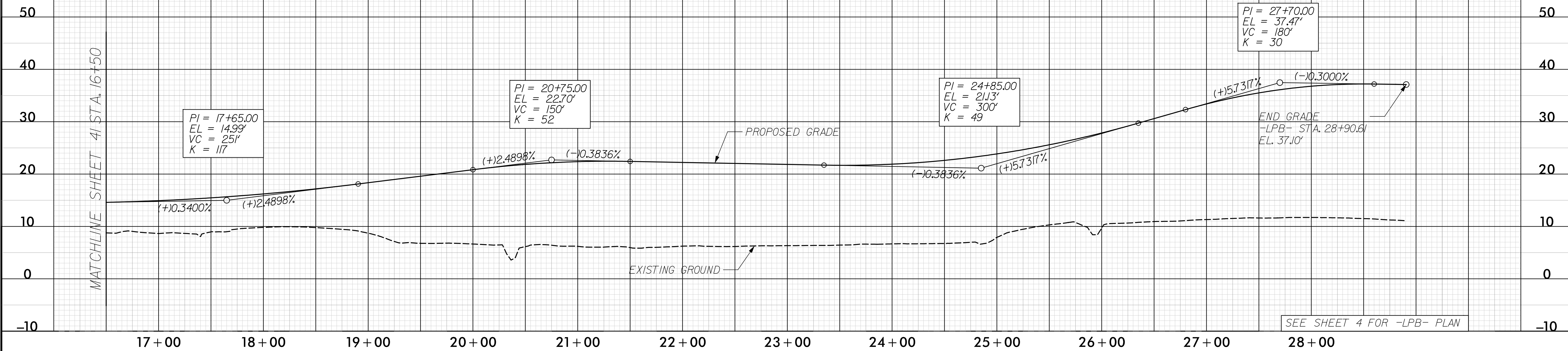
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ROADWAY DESIGN  
ENGINEER

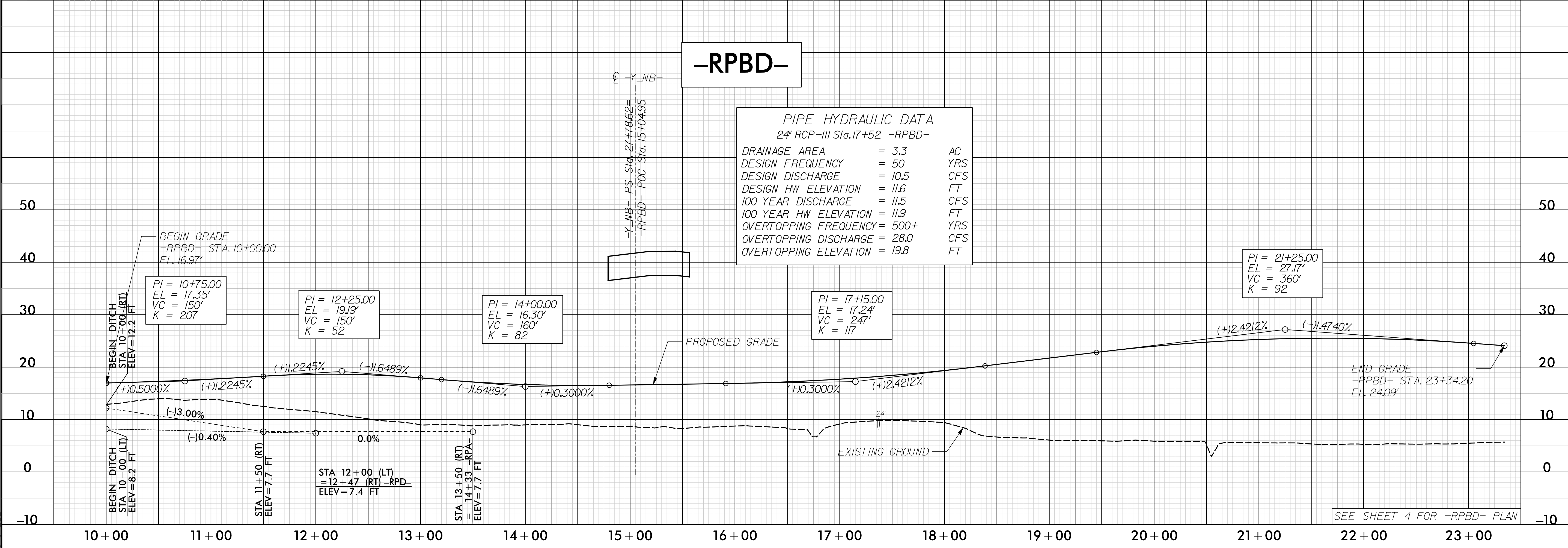
HYDRAULICS  
ENGINEER

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

## -LPB-



## -RPBD-

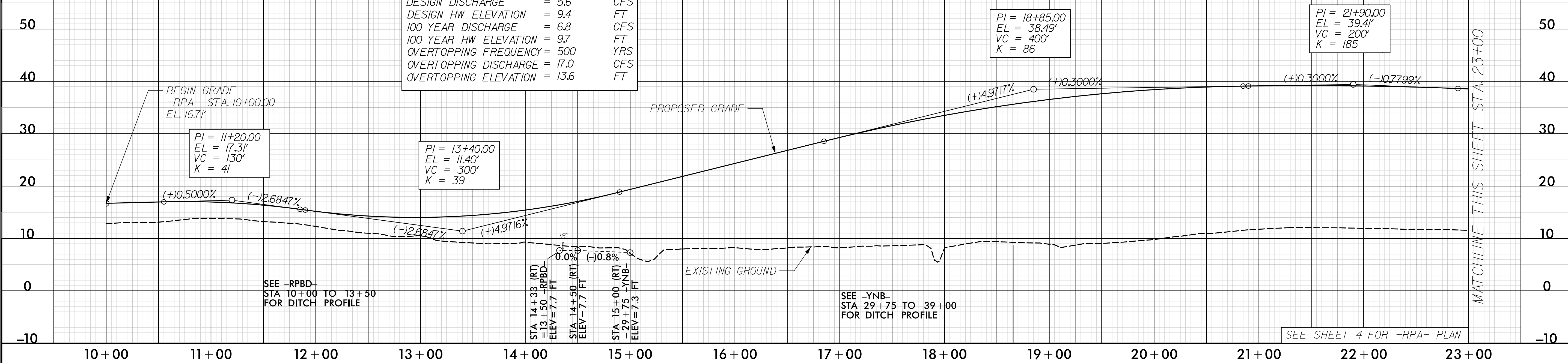


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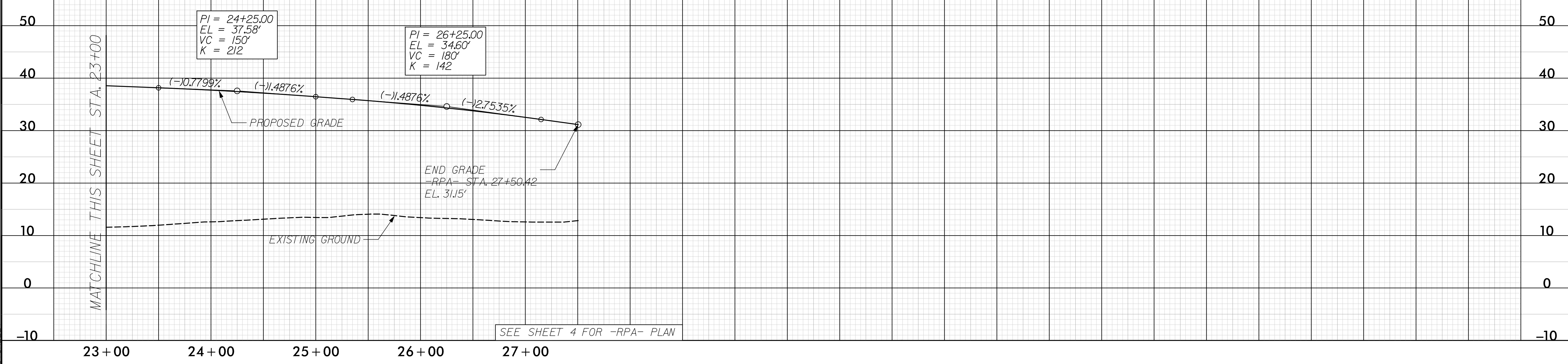
**-RPA-**

DRAINAGE AREA	= 1.46	AC
DESIGN FREQUENCY	= 25	YRS
DESIGN DISCHARGE	= 5.6	CFS
DESIGN HW ELEVATION	= 9.4	FT
100 YEAR DISCHARGE	= 6.8	CFS
100 YEAR HW ELEVATION	= 9.7	FT
OVERTOPPING FREQUENCY	= 500	YRS
OVERTOPPING DISCHARGE	= 17.0	CFS
OVERTOPPING ELEVATION	= 13.6	FT



MATCHLINE THIS SHEET STA. 23+00

**-RPA-**



MATCHLINE THIS SHEET STA. 23+00

SEE SHEET 4 FOR -RPA- PLAN

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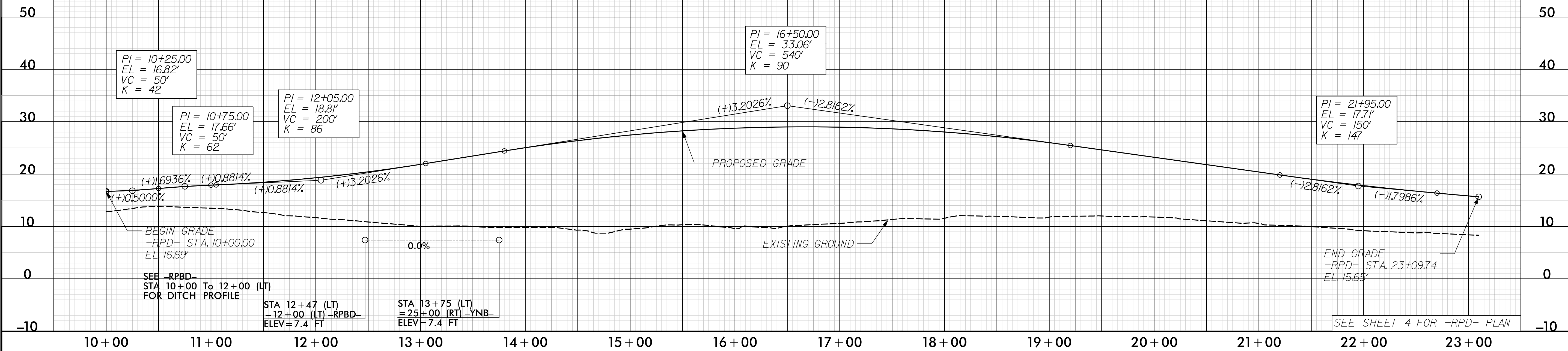
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. R-2576 SHEET NO. 44

ROADWAY DESIGN ENGINEER HYDRAULICS ENGINEER

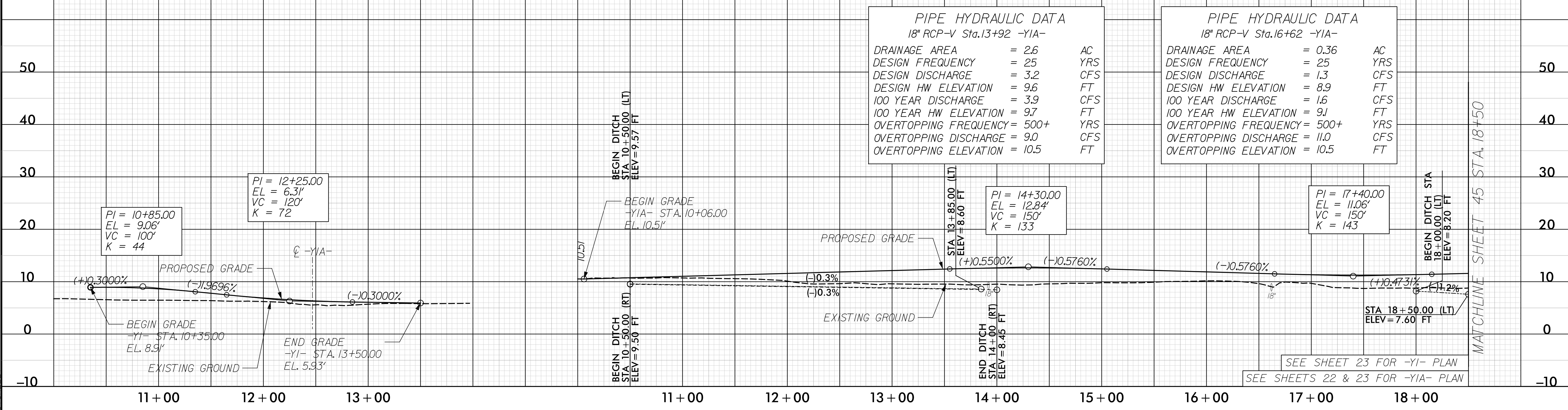
DOCUMENT NOT CONSIDERED FINAL  
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## -RPD-



## -Y1- WATERLILLY RD

## -Y1A-



PIPE HYDRAULIC DATA  
18" RCP-V Sta. 13+92 -Y1A-

DRAINAGE AREA	= 2.6	AC
DESIGN FREQUENCY	= 25	YRS
DESIGN DISCHARGE	= 3.2	CFS
DESIGN HW ELEVATION	= 9.6	FT
100 YEAR DISCHARGE	= 3.9	CFS
100 YEAR HW ELEVATION	= 9.7	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 9.0	CFS
OVERTOPPING ELEVATION	= 10.5	FT

PIPE HYDRAULIC DATA  
18" RCP-V Sta. 16+62 -Y1A-

DRAINAGE AREA	= 0.36	AC
DESIGN FREQUENCY	= 25	YRS
DESIGN DISCHARGE	= 1.3	CFS
DESIGN HW ELEVATION	= 8.9	FT
100 YEAR DISCHARGE	= 1.6	CFS
100 YEAR HW ELEVATION	= 9.1	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 11.0	CFS
OVERTOPPING ELEVATION	= 10.5	FT

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MATCHLINE SHEET 45 STA. 18+50

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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
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PROJECT REFERENCE NO.

R-2576

SHEET NO.

45

ROADWAY DESIGN  
ENGINEER

HYDRAULICS  
ENGINEER

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## -Y1A-

**PIPE HYDRAULIC DATA**  
18" RCP-V Sta. 19+00 -Y1A-

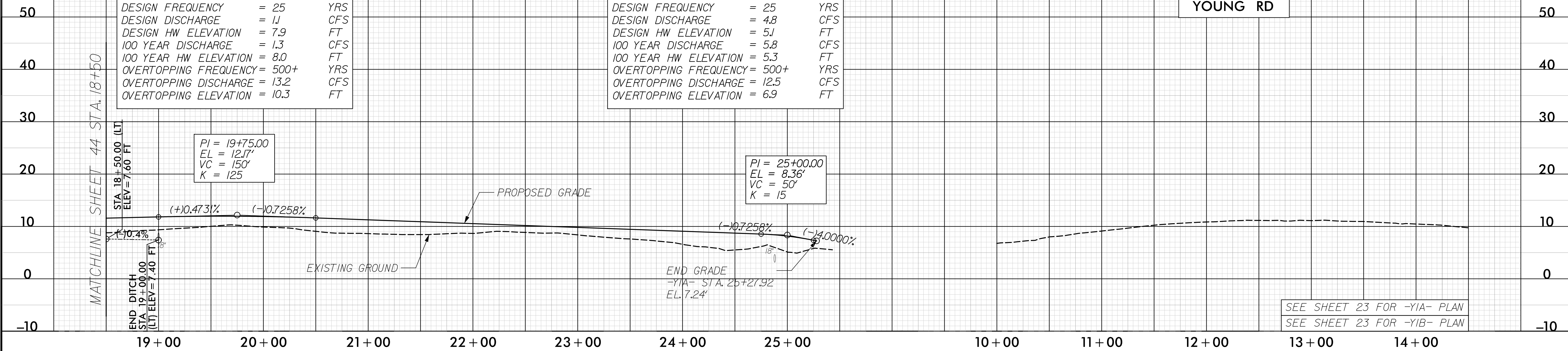
DRAINAGE AREA	= 0.7	AC
DESIGN FREQUENCY	= 25	YRS
DESIGN DISCHARGE	= 1.1	CFS
DESIGN HW ELEVATION	= 7.9	FT
100 YEAR DISCHARGE	= 1.3	CFS
100 YEAR HW ELEVATION	= 8.0	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 13.2	CFS
OVERTOPPING ELEVATION	= 10.3	FT

**PIPE HYDRAULIC DATA**  
18" RCP-V Sta. 24+88 -Y1A-

DRAINAGE AREA	= 2.6	AC
DESIGN FREQUENCY	= 25	YRS
DESIGN DISCHARGE	= 4.8	CFS
DESIGN HW ELEVATION	= 5.1	FT
100 YEAR DISCHARGE	= 5.8	CFS
100 YEAR HW ELEVATION	= 5.3	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 12.5	CFS
OVERTOPPING ELEVATION	= 6.9	FT

## -Y1B-

YOUNG RD



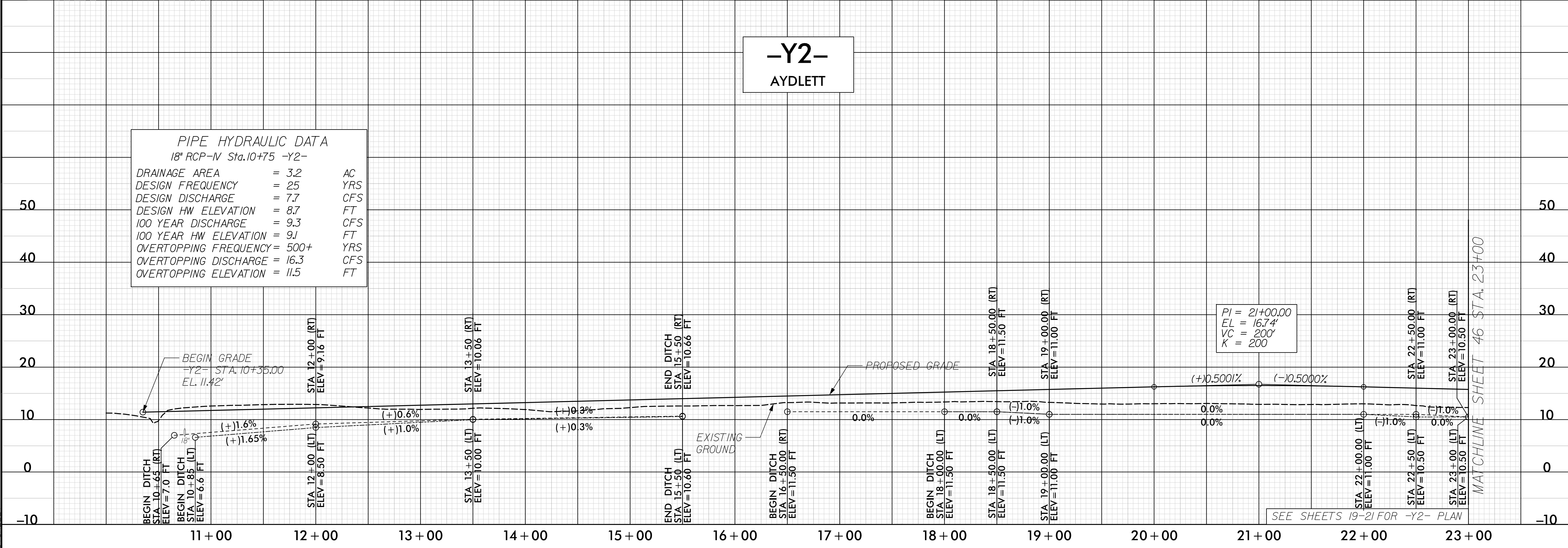
SEE SHEET 23 FOR -Y1A- PLAN  
SEE SHEET 23 FOR -Y1B- PLAN

## -Y2-

AYDLETT

**PIPE HYDRAULIC DATA**  
18" RCP-V Sta. 10+75 -Y2-

DRAINAGE AREA	= 3.2	AC
DESIGN FREQUENCY	= 25	YRS
DESIGN DISCHARGE	= 7.7	CFS
DESIGN HW ELEVATION	= 8.7	FT
100 YEAR DISCHARGE	= 9.3	CFS
100 YEAR HW ELEVATION	= 9.1	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 16.3	CFS
OVERTOPPING ELEVATION	= 11.5	FT



SEE SHEETS 19-21 FOR -Y2- PLAN

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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
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PROJECT REFERENCE NO.

R-2576

SHEET NO.

46

ROADWAY DESIGN  
ENGINEER

HYDRAULICS  
ENGINEER

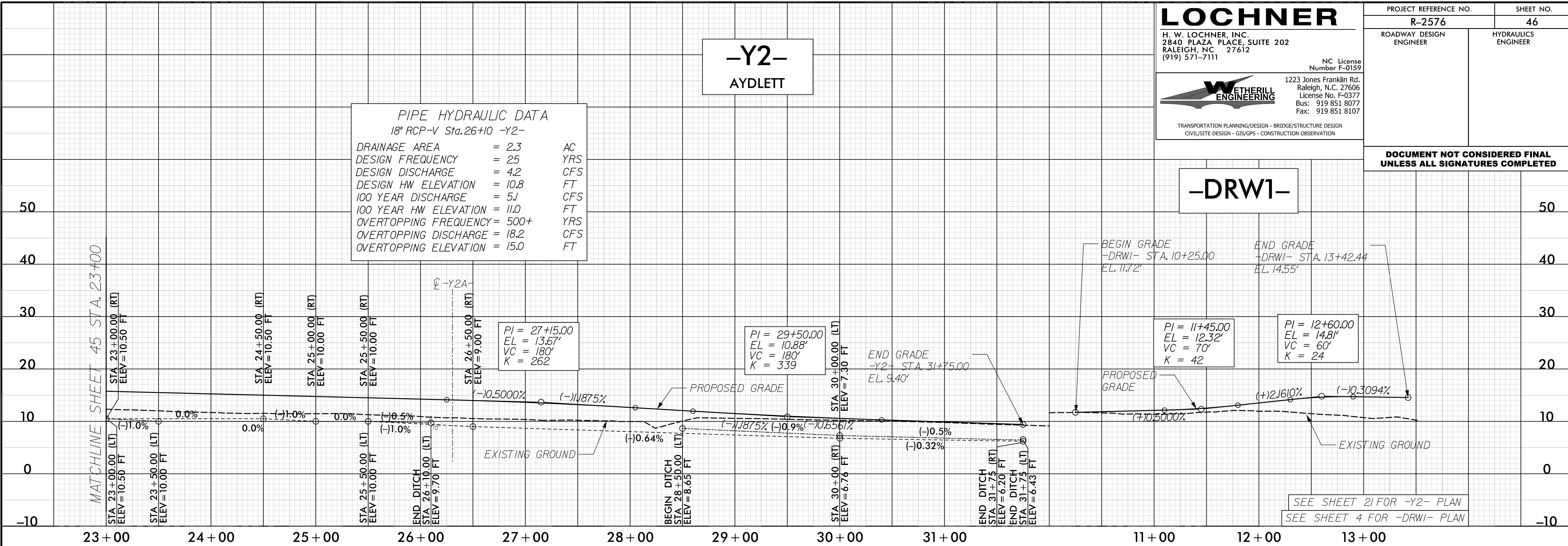
DOCUMENT NOT CONSIDERED FINAL  
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## -Y2- AYDLETT

**PIPE HYDRAULIC DATA**  
18" RCP-V Sta.26+10 -Y2-

DRAINAGE AREA	= 2.3	AC
DESIGN FREQUENCY	= 25	YRS
DESIGN DISCHARGE	= 4.2	CFS
DESIGN HW ELEVATION	= 10.8	FT
100 YEAR DISCHARGE	= 5.1	CFS
100 YEAR HW ELEVATION	= 11.0	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 18.2	CFS
OVERTOPPING ELEVATION	= 15.0	FT

## -DRW1-



SEE SHEET 21 FOR -Y2- PLAN  
SEE SHEET 4 FOR -DRW1- PLAN

## -Y2A-

**PIPE HYDRAULIC DATA**  
18" RCP-V Sta.11+04 -Y2A-

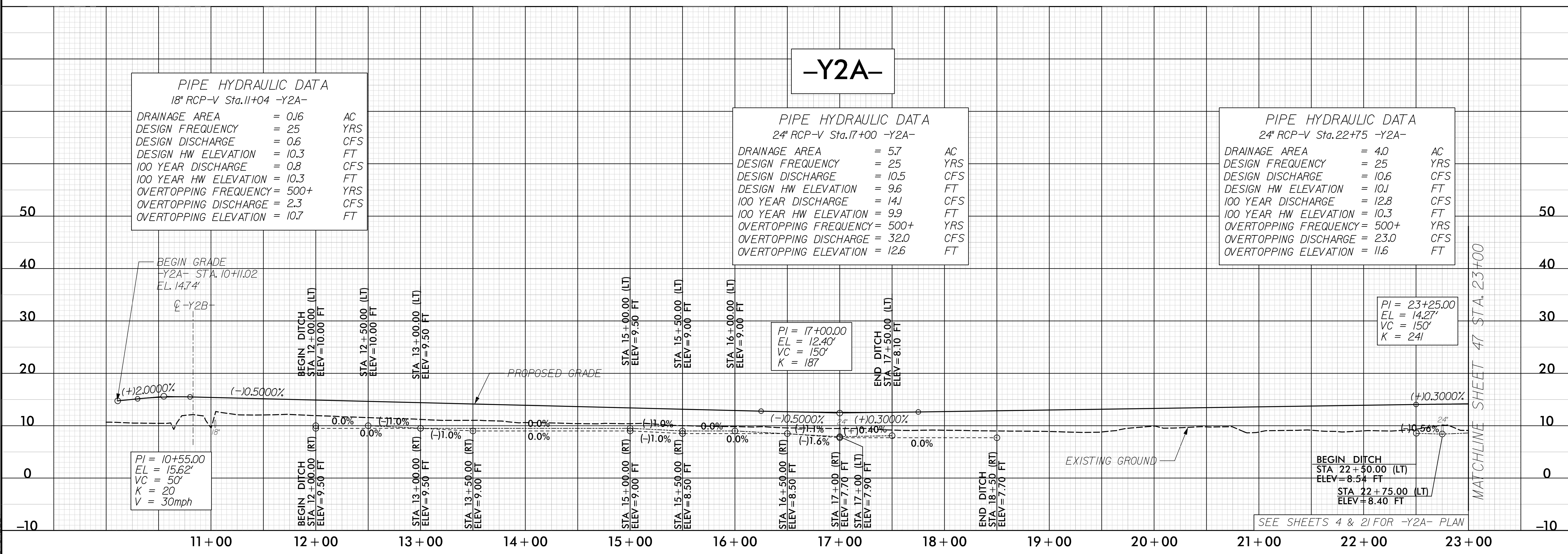
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DESIGN FREQUENCY	= 25	YRS
DESIGN DISCHARGE	= 0.6	CFS
DESIGN HW ELEVATION	= 10.3	FT
100 YEAR DISCHARGE	= 0.8	CFS
100 YEAR HW ELEVATION	= 10.3	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 2.3	CFS
OVERTOPPING ELEVATION	= 10.7	FT

**PIPE HYDRAULIC DATA**  
24" RCP-V Sta.17+00 -Y2A-

DRAINAGE AREA	= 57	AC
DESIGN FREQUENCY	= 25	YRS
DESIGN DISCHARGE	= 10.5	CFS
DESIGN HW ELEVATION	= 9.6	FT
100 YEAR DISCHARGE	= 14.1	CFS
100 YEAR HW ELEVATION	= 9.9	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 32.0	CFS
OVERTOPPING ELEVATION	= 12.6	FT

**PIPE HYDRAULIC DATA**  
24" RCP-V Sta.22+75 -Y2A-

DRAINAGE AREA	= 40	AC
DESIGN FREQUENCY	= 25	YRS
DESIGN DISCHARGE	= 10.6	CFS
DESIGN HW ELEVATION	= 10.1	FT
100 YEAR DISCHARGE	= 12.8	CFS
100 YEAR HW ELEVATION	= 10.3	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 23.0	CFS
OVERTOPPING ELEVATION	= 11.6	FT



SEE SHEETS 4 & 21 FOR -Y2A- PLAN

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R2576-16-RCP-V-P.L-46.dgn  
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Raleigh, N.C. 27606  
License No. F-0377  
Bus: 919 851 8077  
Fax: 919 851 8107

WETHERILL  
ENGINEERING

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. SHEET NO.

R-2576 47

ROADWAY DESIGN ENGINEER HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

## -Y2A-

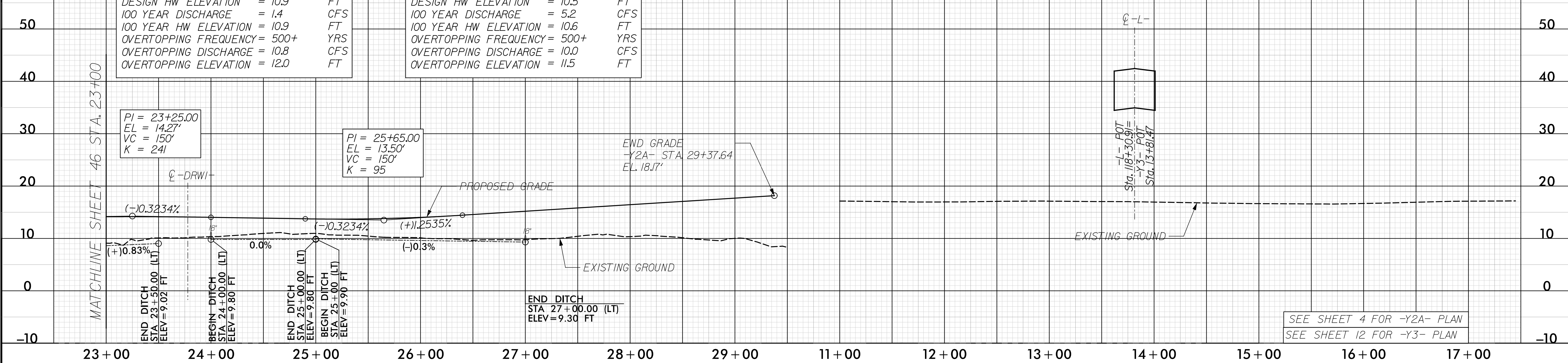
## -Y3- NARROW SHORE RD

PIPE HYDRAULIC DATA  
18" RCP-III Sta. 24+00 -Y2A-

DRAINAGE AREA	= 0.6	AC
DESIGN FREQUENCY	= 25	YRS
DESIGN DISCHARGE	= 1.2	CFS
DESIGN HW ELEVATION	= 10.9	FT
100 YEAR DISCHARGE	= 1.4	CFS
100 YEAR HW ELEVATION	= 10.9	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 10.8	CFS
OVERTOPPING ELEVATION	= 12.0	FT

PIPE HYDRAULIC DATA  
18" RCP-III Sta. 27+00 -Y2A-

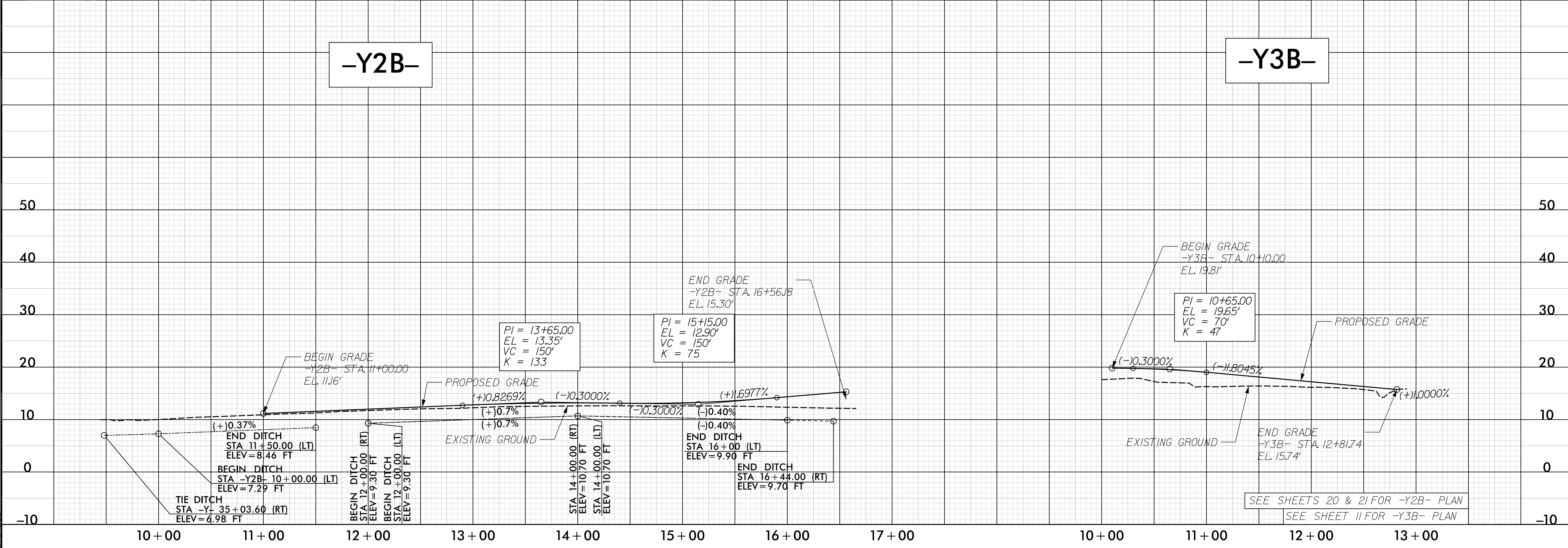
DRAINAGE AREA	= 1.3	AC
DESIGN FREQUENCY	= 25	YRS
DESIGN DISCHARGE	= 4.4	CFS
DESIGN HW ELEVATION	= 10.5	FT
100 YEAR DISCHARGE	= 5.2	CFS
100 YEAR HW ELEVATION	= 10.6	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 10.0	CFS
OVERTOPPING ELEVATION	= 11.5	FT



SEE SHEET 4 FOR -Y2A- PLAN  
SEE SHEET 12 FOR -Y3- PLAN

## -Y2B-

## -Y3B-



SEE SHEETS 20 & 21 FOR -Y2B- PLAN  
SEE SHEET 11 FOR -Y3B- PLAN

6/17/2024  
R02676-04u-pl-47.dgn  
C:\WORK\PROJECTS\2024\06\17\2024-06-17-10-11-47.dgn

5/28/99

# LOCHNER

H. W. LOCHNER, INC.  
2840 PLAZA PLACE, SUITE 202  
RALEIGH, NC 27612  
(919) 571-7111

NC License  
Number F-0159



1223 Jones Franklin Rd.  
Raleigh, N.C. 27606  
License No. F-0377  
Bus: 919 851 8077  
Fax: 919 851 8107

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PROJECT REFERENCE NO.

R-2576

SHEET NO.

48

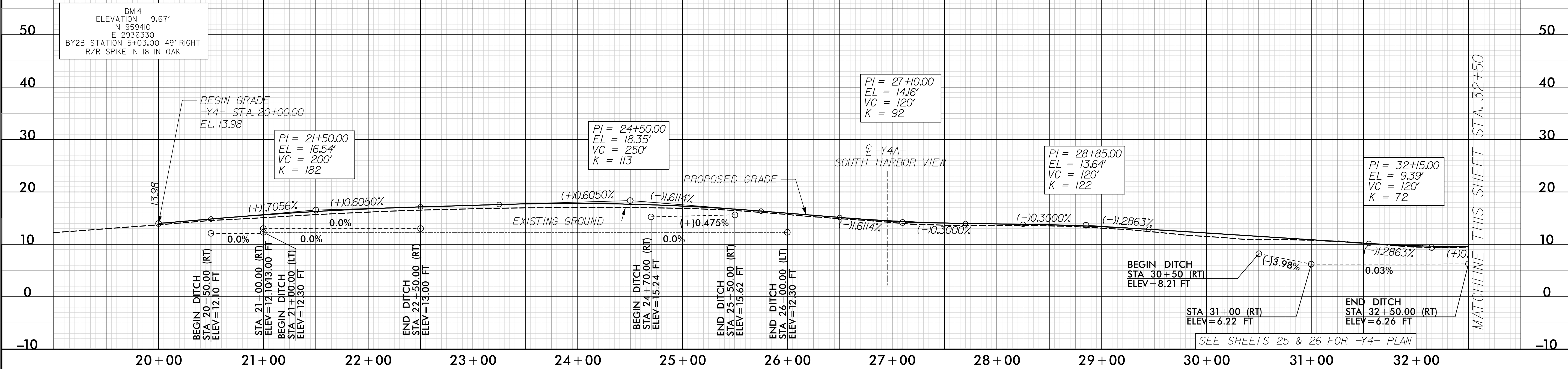
ROADWAY DESIGN  
ENGINEER

HYDRAULICS  
ENGINEER

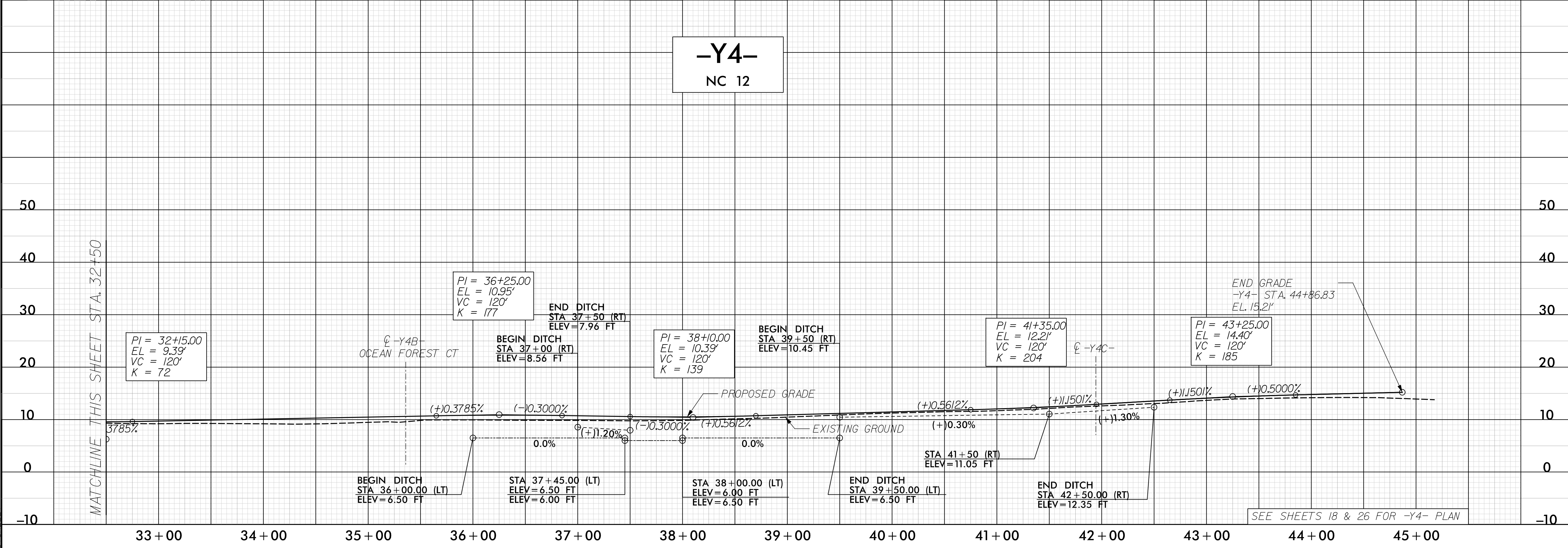
**DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED**

BM#4  
ELEVATION = 9.67'  
N 959410  
E 2936330  
BY2B STATION 5+03.00 49' RIGHT  
R/R SPIKE IN 18 IN OAK

**-Y4-**  
NC 12



**-Y4-**  
NC 12



6/17/2024  
R:\2024\16\_Roadway\pfl\_48.dgn  
C:\Users\pfl\_48

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PROJECT REFERENCE NO.

R-2576

SHEET NO.

49

ROADWAY DESIGN  
ENGINEER

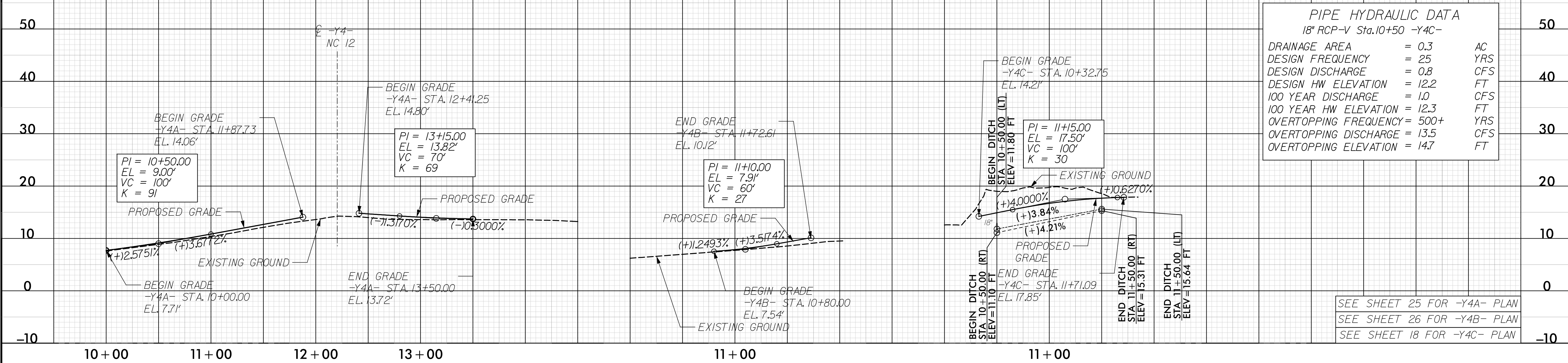
HYDRAULICS  
ENGINEER

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UNLESS ALL SIGNATURES COMPLETED**

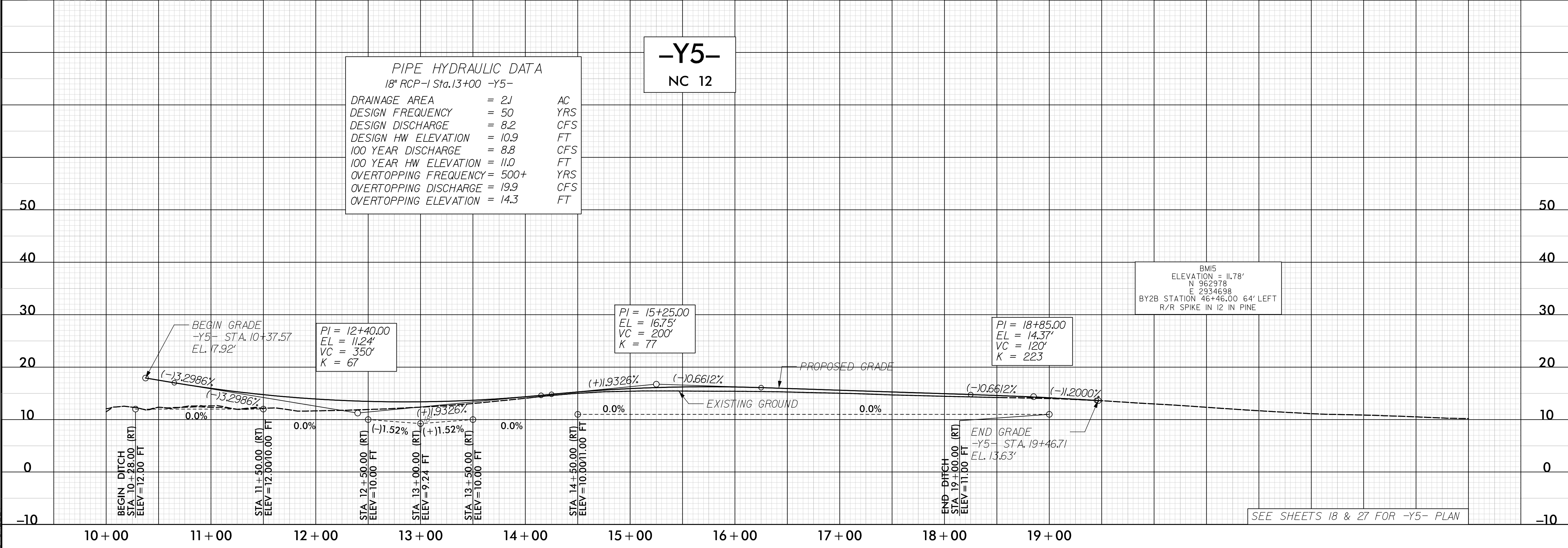
## -Y4A- SOUTH HARBOR VIEW

## -Y4B- OCEAN FOREST CT

## -Y4C-



## -Y5- NC 12



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R0276-PL-49.dgn  
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RALEIGH, NC 27612  
(919) 571-7111

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Raleigh, N.C. 27606  
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Fax: 919 851 8107

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PROJECT REFERENCE NO. R-2576 SHEET NO. 50

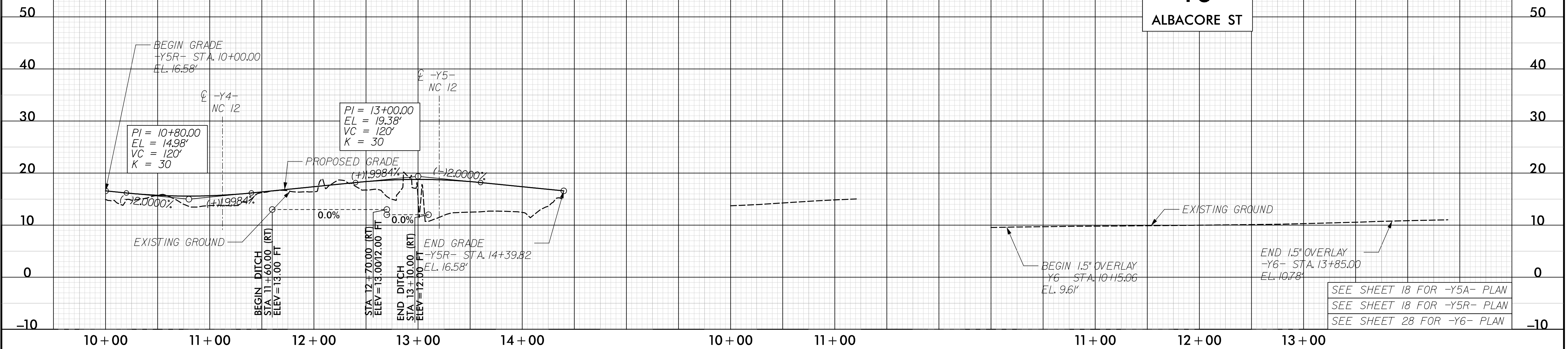
ROADWAY DESIGN ENGINEER HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL  
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## -Y5R- ROUNDBABOUT

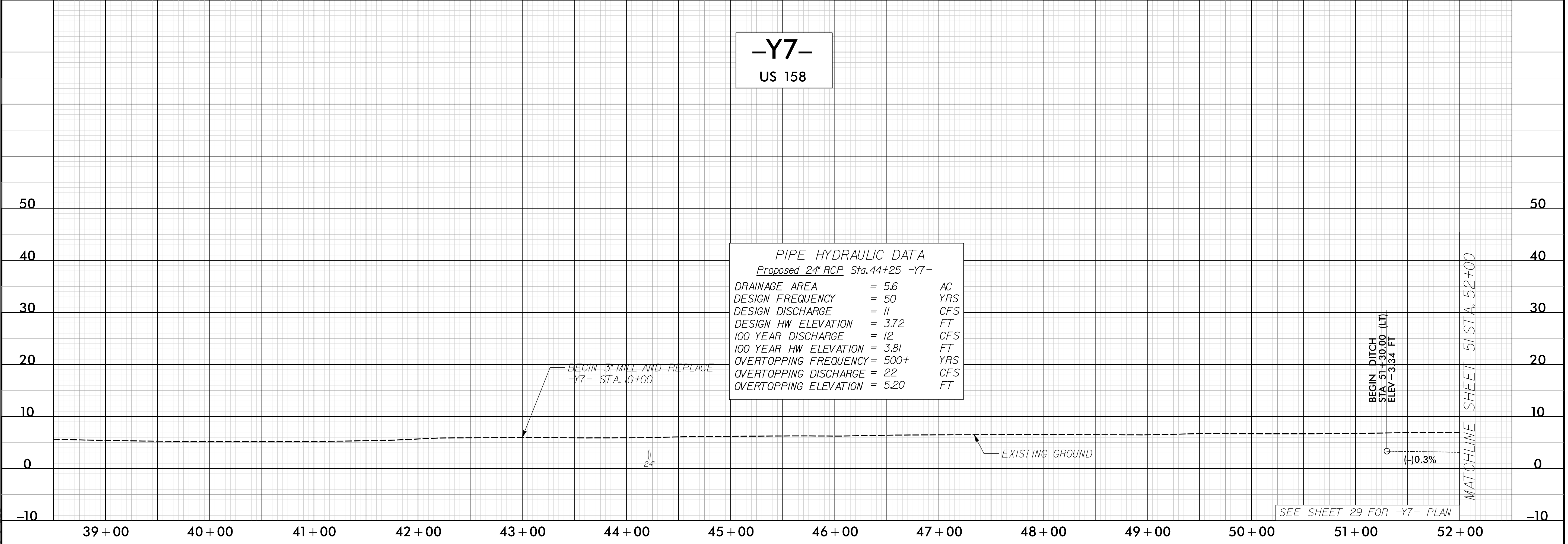
## -Y5A- NORTH HARBOR VIEW

## -Y6- ALBACORE ST



SEE SHEET 18 FOR -Y5A- PLAN  
SEE SHEET 18 FOR -Y5R- PLAN  
SEE SHEET 28 FOR -Y6- PLAN

## -Y7- US 158



PIPE HYDRAULIC DATA		
Proposed 24" RCP Sta. 44+25 -Y7-		
DRAINAGE AREA	= 5.6	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 11	CFS
DESIGN HW ELEVATION	= 3.72	FT
100 YEAR DISCHARGE	= 12	CFS
100 YEAR HW ELEVATION	= 3.81	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 22	CFS
OVERTOPPING ELEVATION	= 5.20	FT

SEE SHEET 29 FOR -Y7- PLAN

6/17/2024  
R06Y6-R04U-pfl-50.dgn  
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**-Y7-**  
US 158

**LOCHNER**

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2840 PLAZA PLACE, SUITE 202  
RALEIGH, NC 27612  
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NC License  
Number F-0159



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Bus: 919 851 8077  
Fax: 919 851 8107

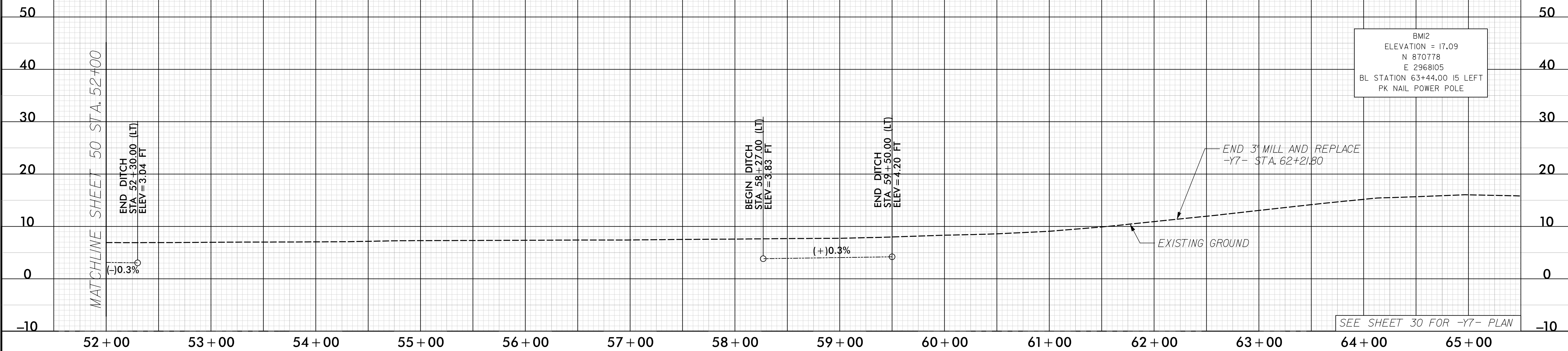
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN  
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. R-2576 SHEET NO. 51

ROADWAY DESIGN ENGINEER HYDRAULICS ENGINEER

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BMI2  
ELEVATION = 17.09  
N 870778  
E 2968105  
BL STATION 63+44.00 IS LEFT  
PK NAIL POWER POLE



6/17/2024  
R0076\_R044-pfl-51.dgn  
C. COLEBY