

R-2576 Mid-Currituck Bridge

Attachment 3:

Right-of-Way Plans June, 2024

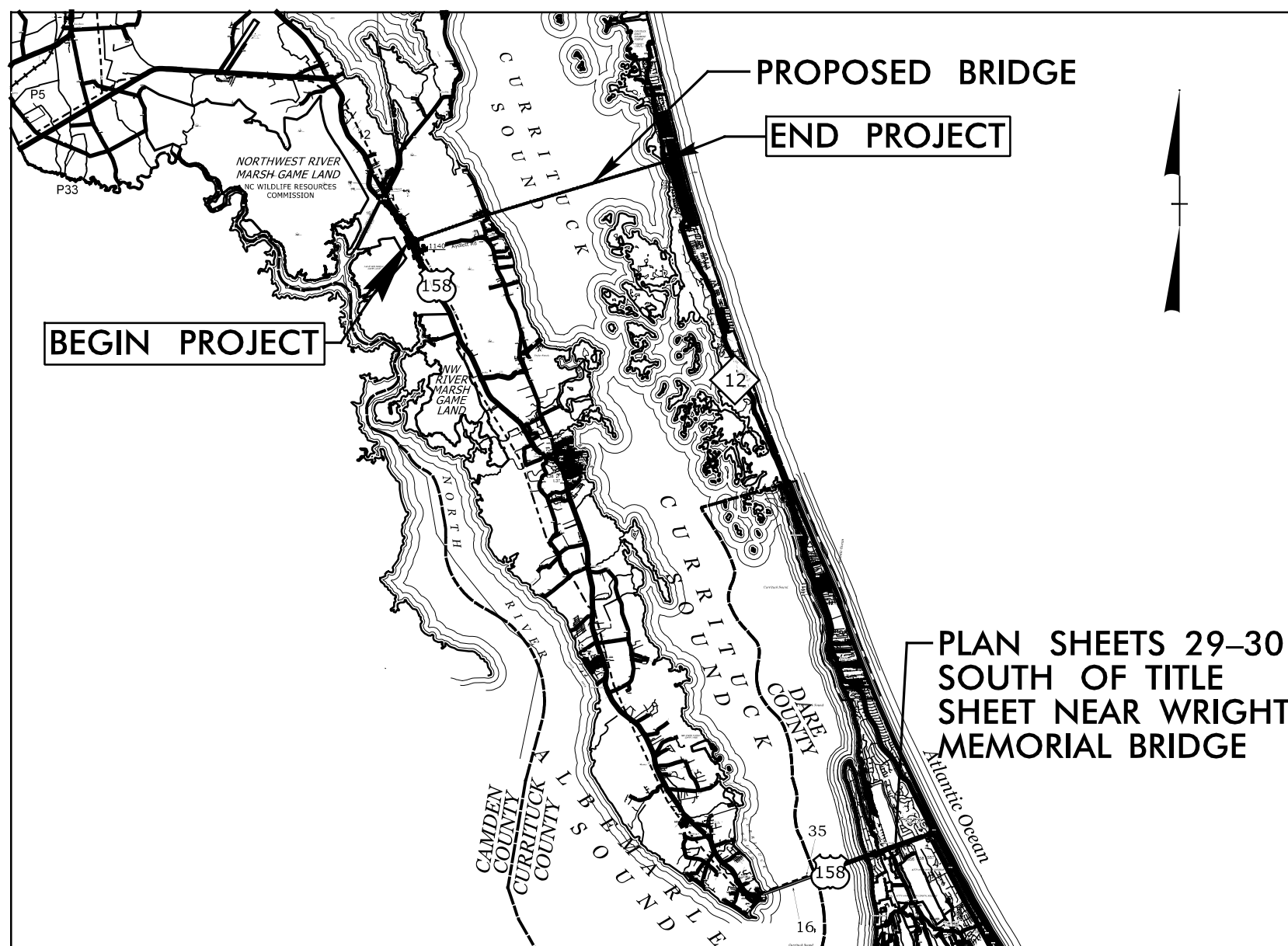
09/08/99

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

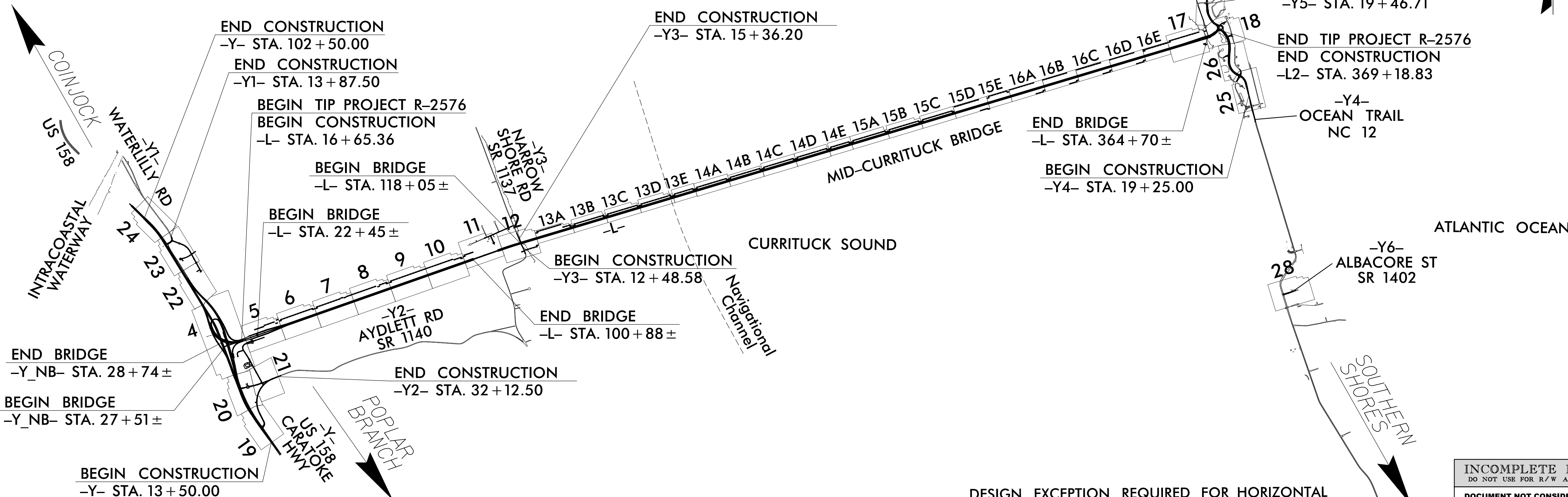


VICINITY MAP

75% PLANS

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

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



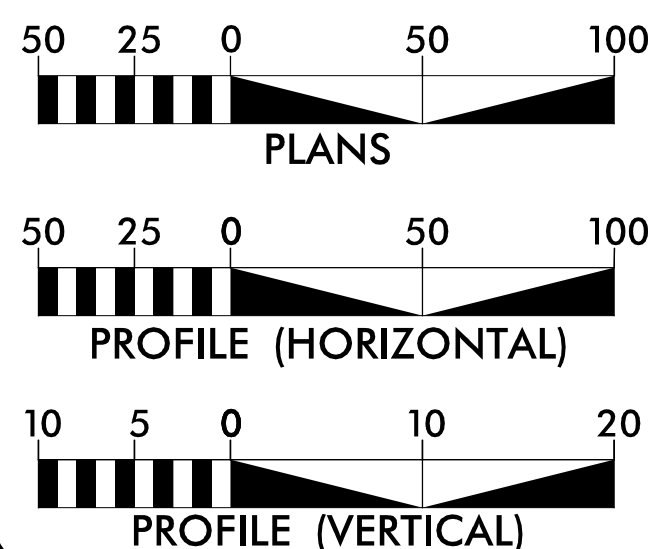
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II

**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**

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)

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

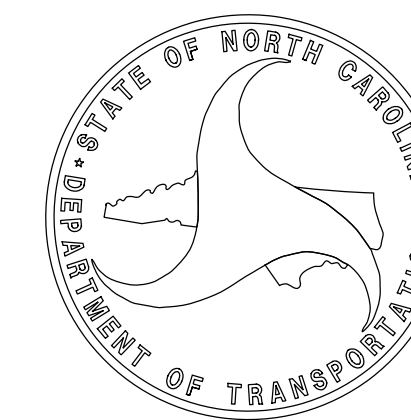
DENNIS JERNIGAN, PE
NCDOT /NCTA

HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

**ROADWAY DESIGN
ENGINEER**

SIGNATURE: _____ P.E.



17-JUN-2024 08:35 R:\Roadway\Proj\R2576_rdy_TSH.dgn \$\$\$USERNAME\$\$\$

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)*	-----
U/G Power Line (SUE - LOS C)*	-----
U/G Power Line (SUE - LOS D)*	-----

TELEPHONE:

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

WATER:

Water Manhole	⊙
Water Meter	⊙
Water Valve	⊗
Water Hydrant	⊙
U/G Water Line Test Hole (SUE - LOS A)*	○
U/G Water Line (SUE - LOS B)*	-----
U/G Water Line (SUE - LOS C)*	-----
U/G Water Line (SUE - LOS D)*	-----
Above Ground Water Line	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)*	-----
U/G TV Cable (SUE - LOS C)*	-----
U/G TV Cable (SUE - LOS D)*	-----
U/G Fiber Optic Cable (SUE - LOS B)*	-----
U/G Fiber Optic Cable (SUE - LOS C)*	-----
U/G Fiber Optic Cable (SUE - LOS D)*	-----

GAS:

Gas Valve	◇
Gas Meter	⊙
U/G Gas Line Test Hole (SUE - LOS A)*	⊗
U/G Gas Line (SUE - LOS B)*	-----
U/G Gas Line (SUE - LOS C)*	-----
U/G Gas Line (SUE - LOS D)*	-----
Above Ground Gas Line	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)*	-----
SS Force Main Line (SUE - LOS C)*	-----
SS Force Main Line (SUE - LOS D)*	-----

MISCELLANEOUS:

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

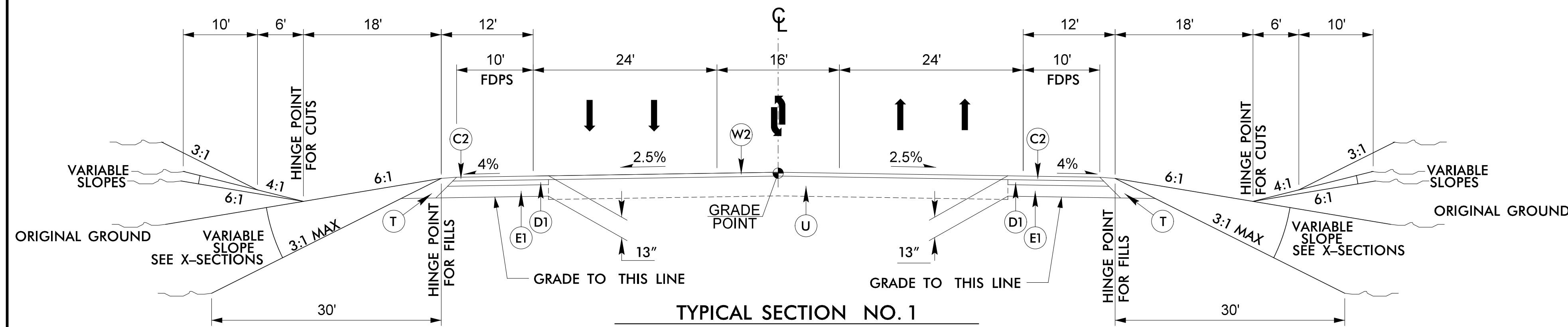
6/2/99

PAVEMENT DESIGN PENDING

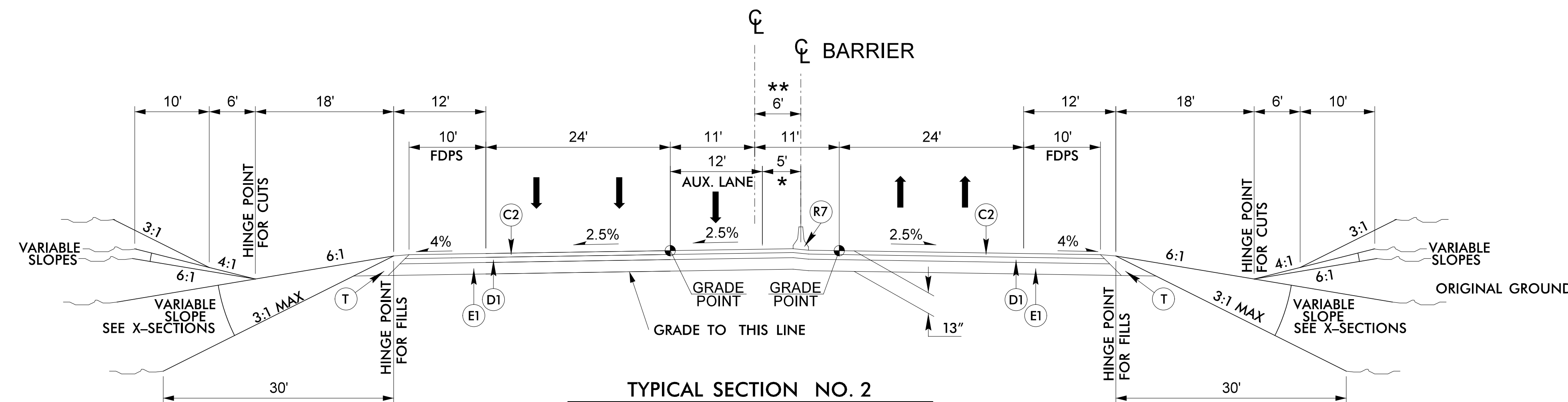
PROJECT REFERENCE NO. <i>R-2576</i>	SHEET NO. <i>2A-1</i>
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

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

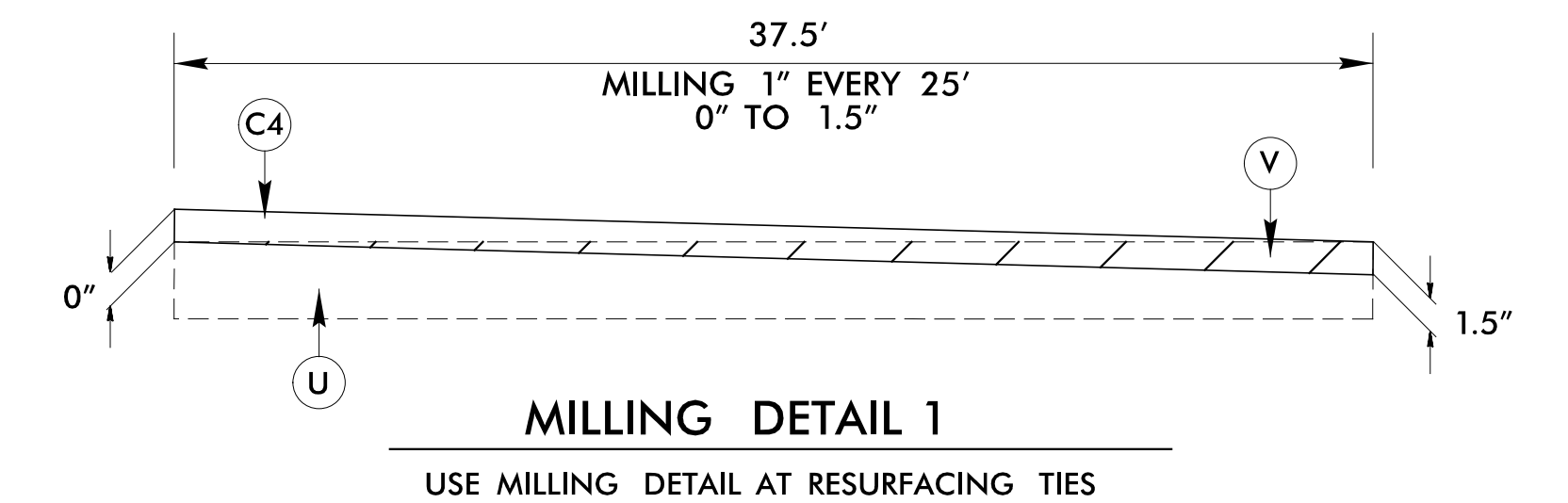


TYPICAL SECTION NO. 1
 -Y- (US 158) STA. 14+75.00 TO 19+37.13
 -Y- (US 158) STA. 89+00.00 TO 102+50.00

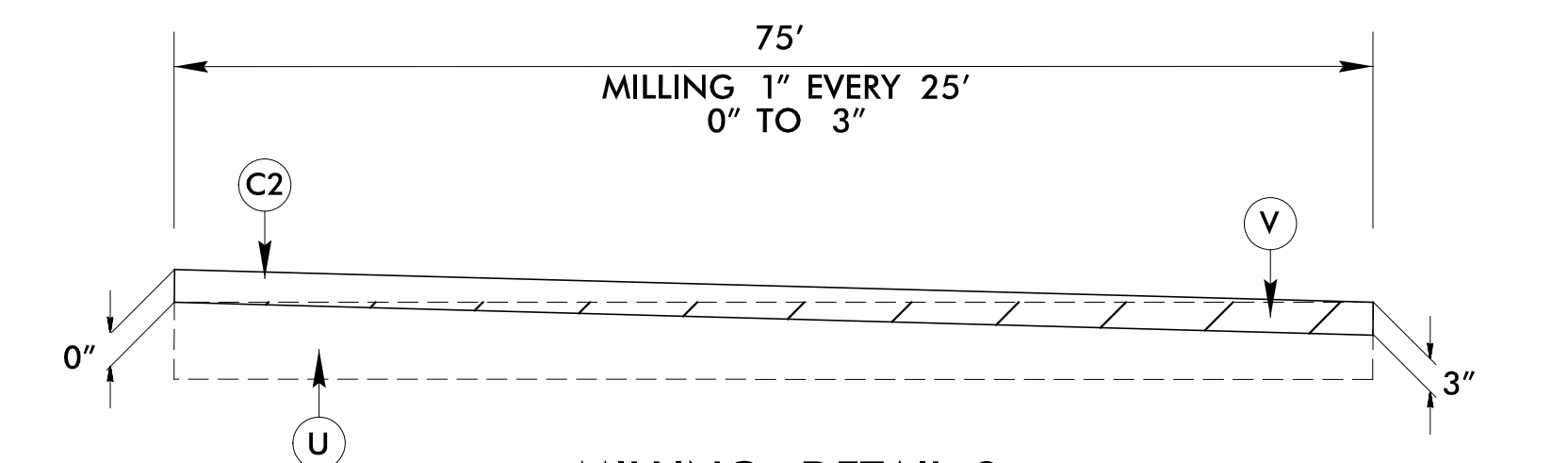


TYPICAL SECTION NO. 2
 -Y- (US 158) STA. 19+37.13 TO 33+39.23

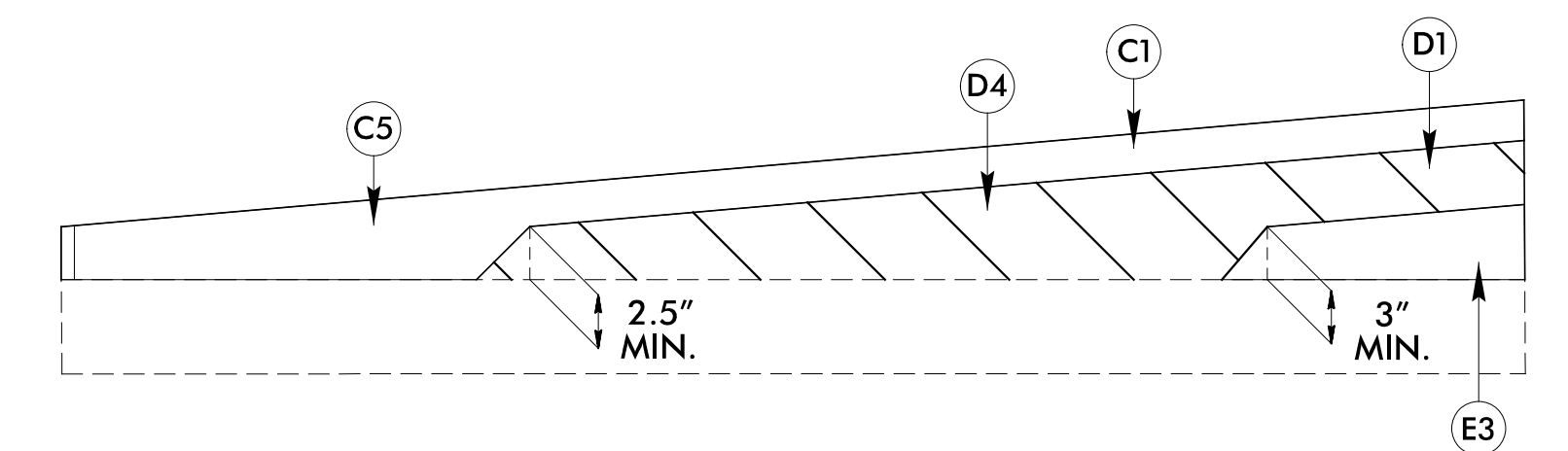
* 6' FROM -Y- STA. 25+00.00 TO 33+39.23
 ** 7' FROM -Y- STA. 25+00.00 TO 33+39.23



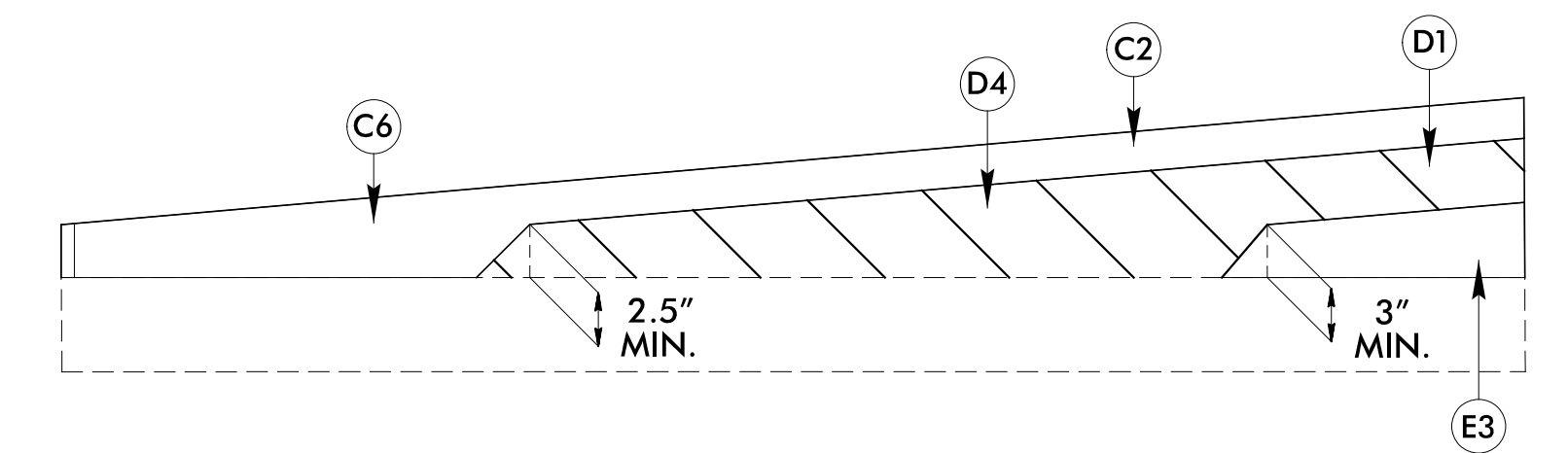
MILLING DETAIL 1
 USE MILLING DETAIL AT RESURFACING TIES



MILLING DETAIL 2
 USE MILLING DETAIL AT RESURFACING TIES



WEDGING DETAIL 1 FOR RESURFACING

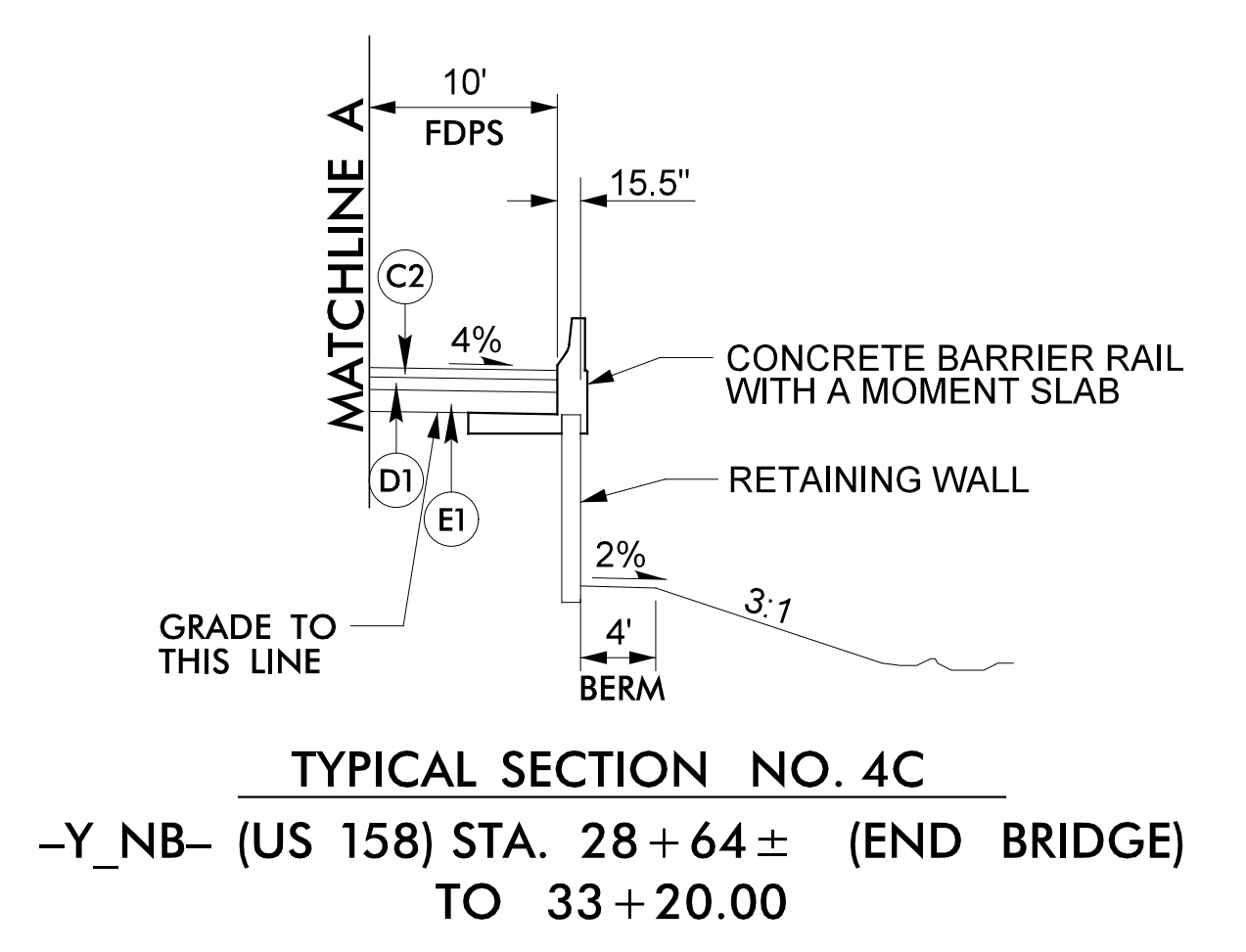
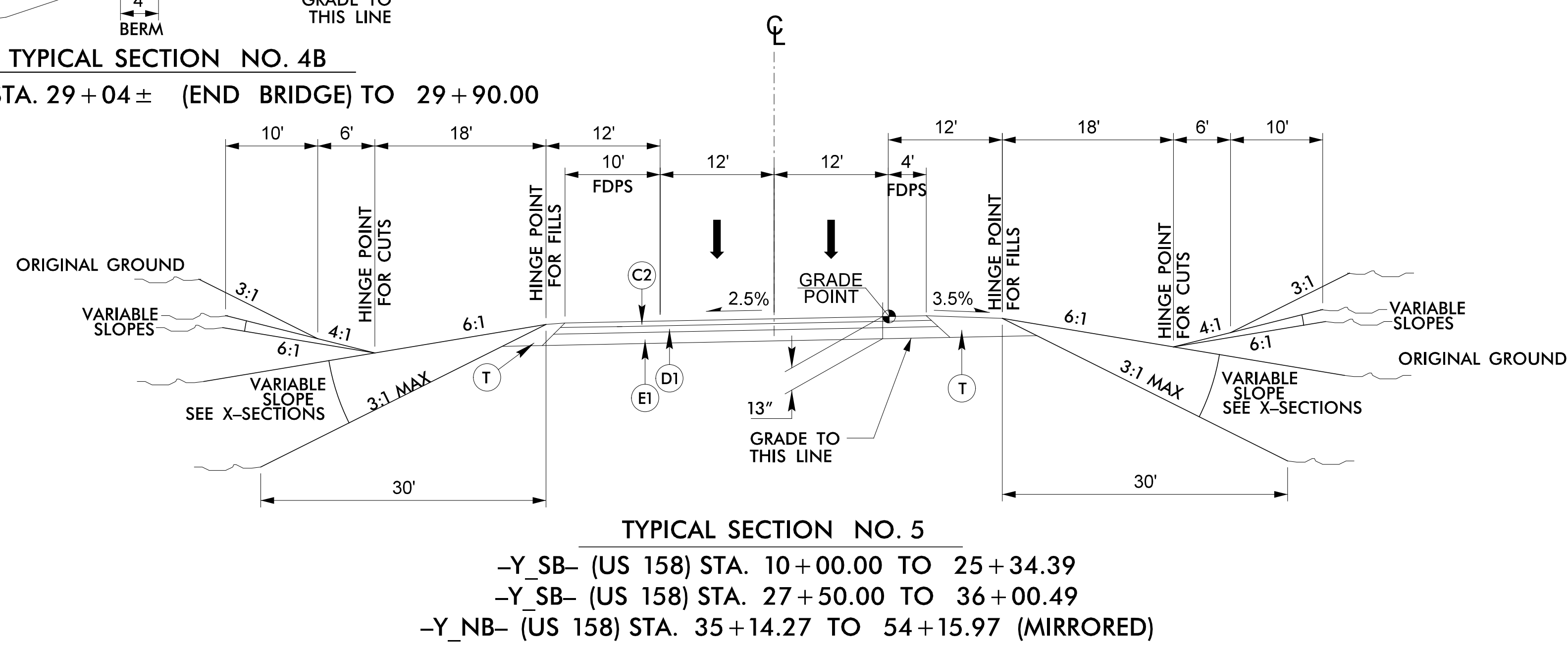
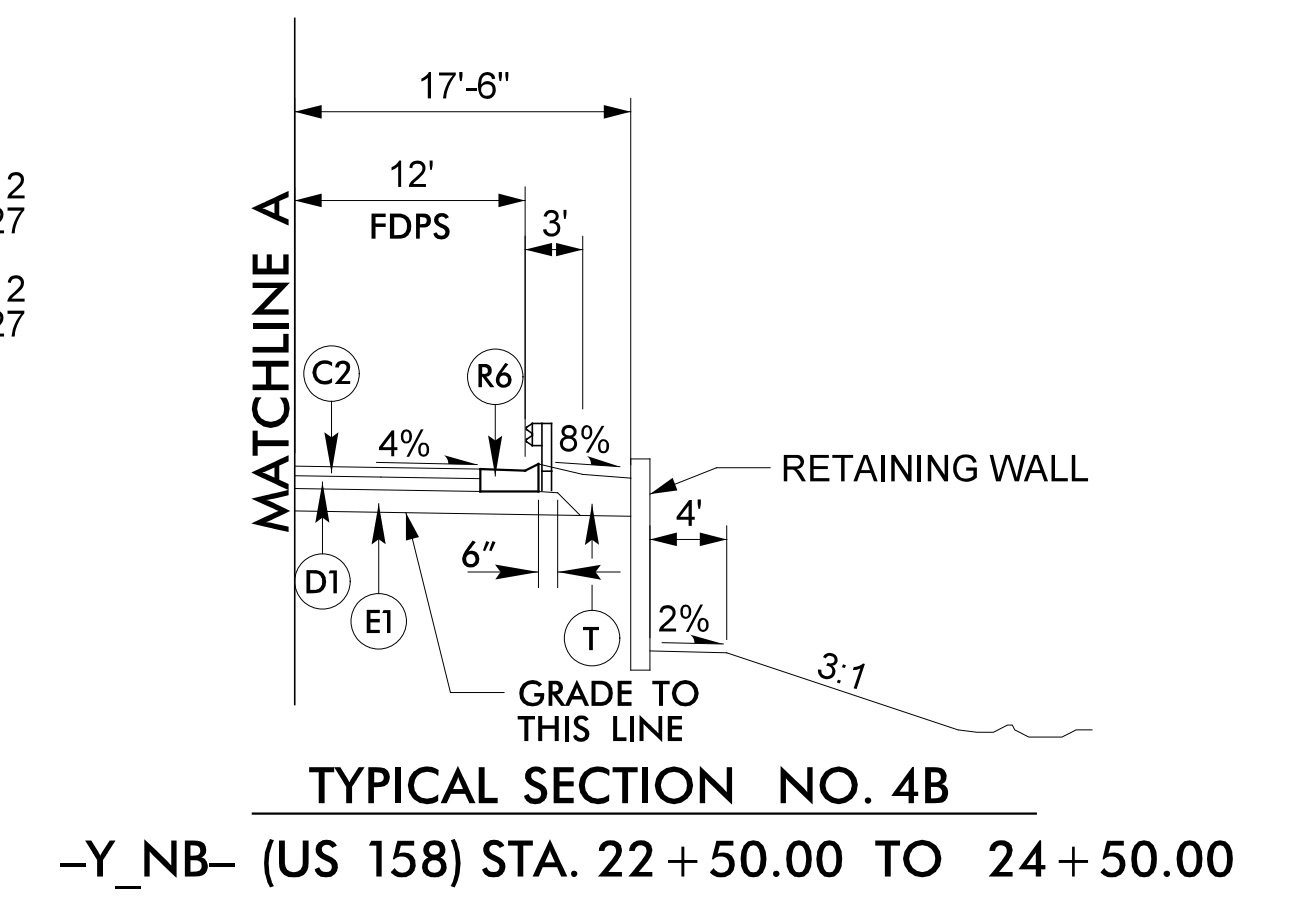
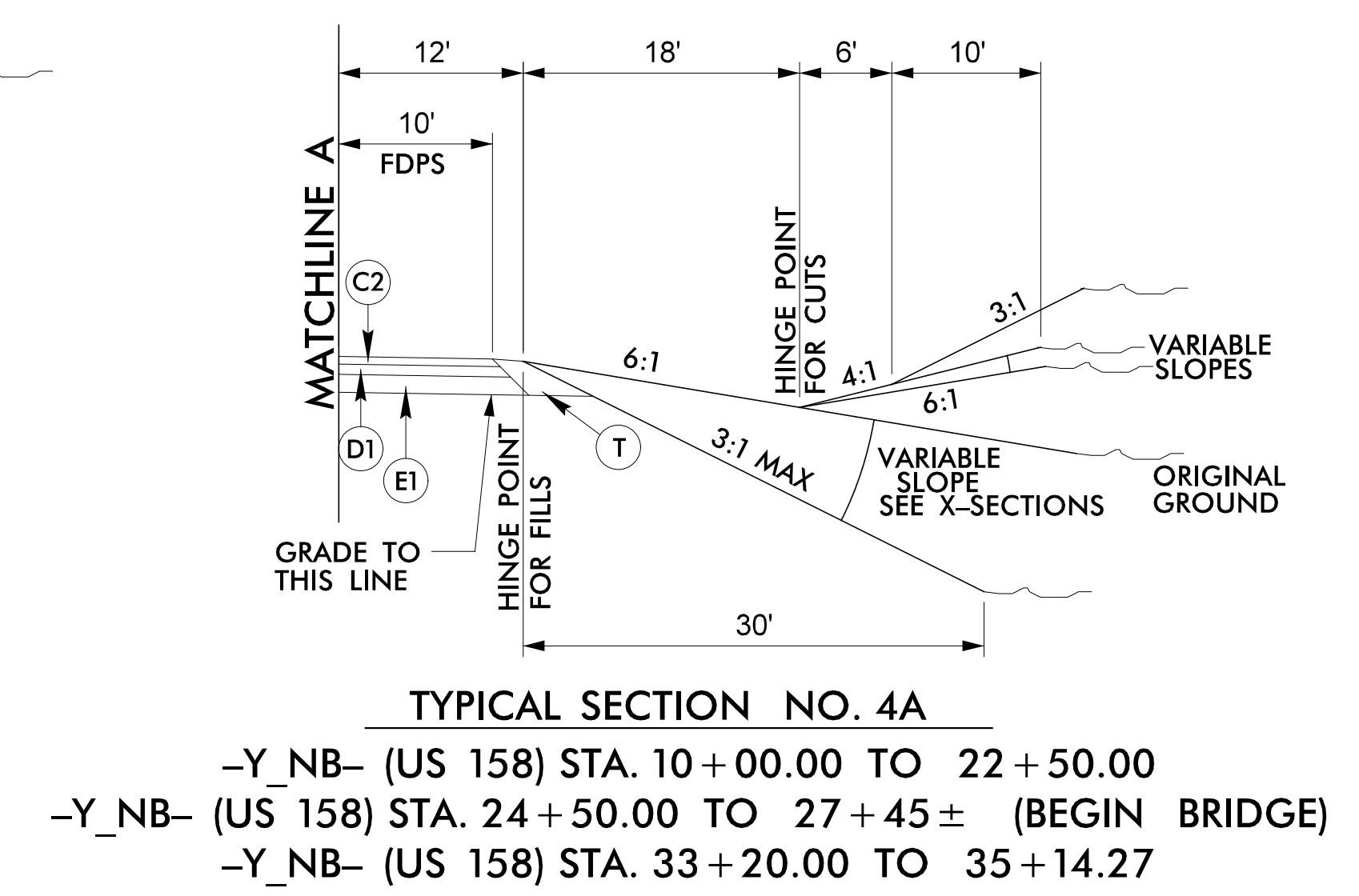
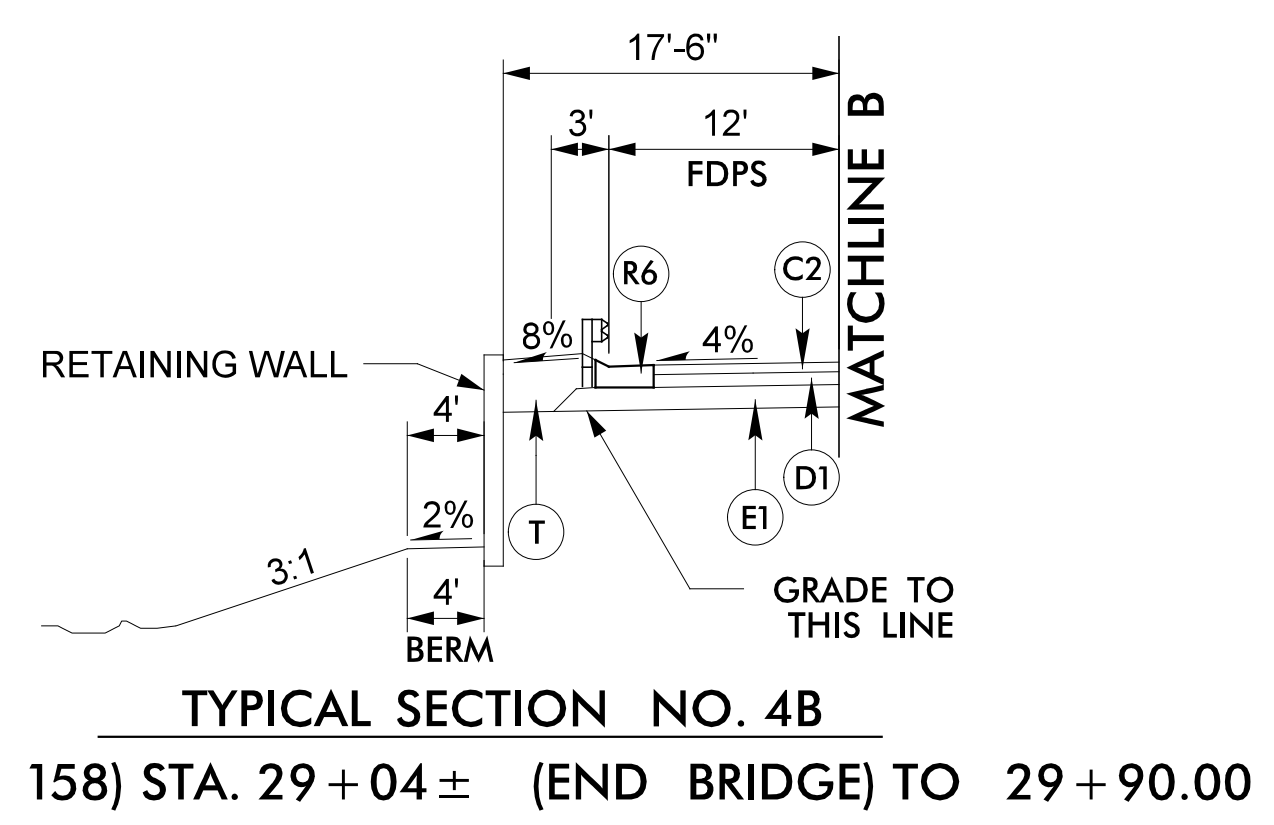
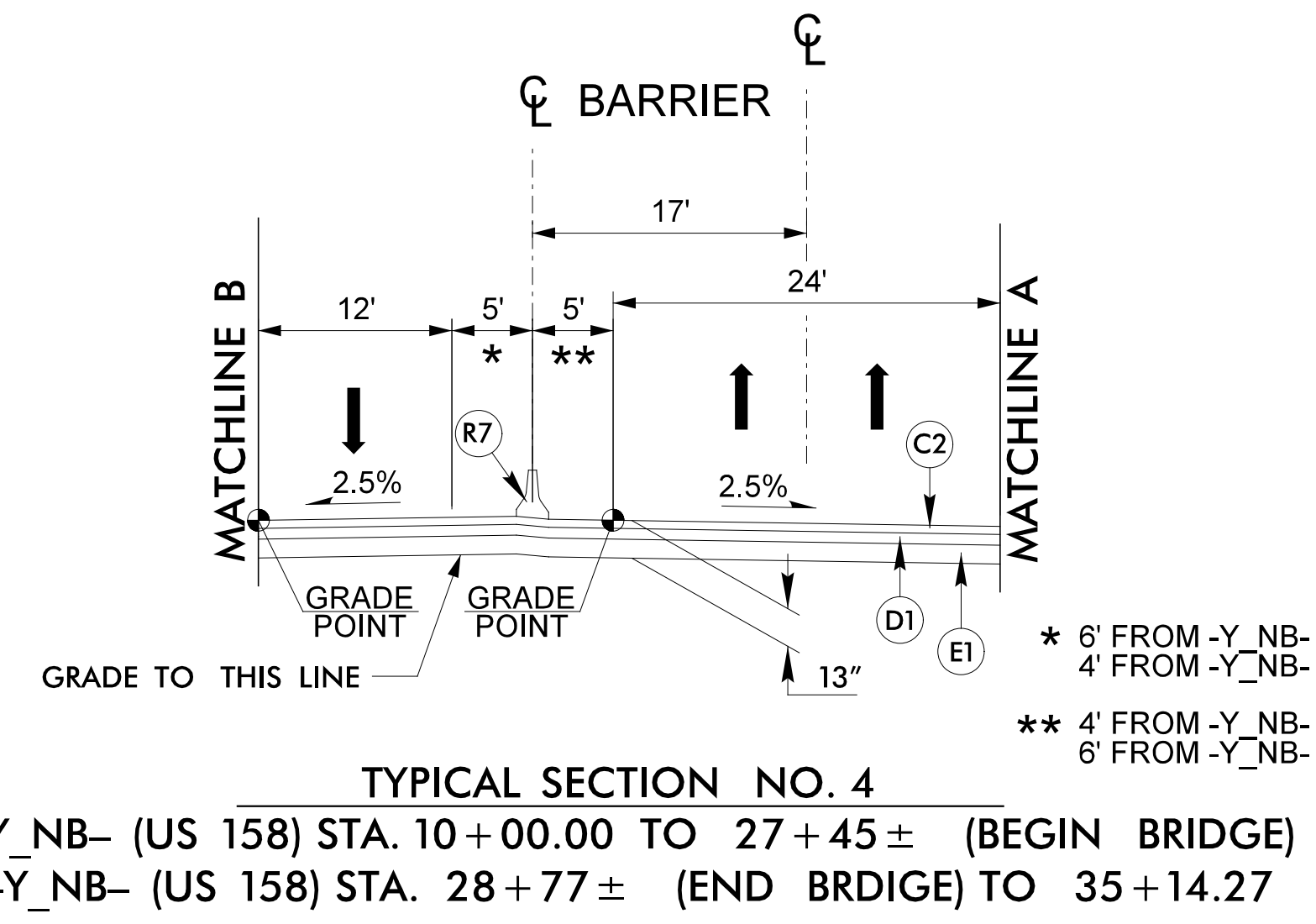
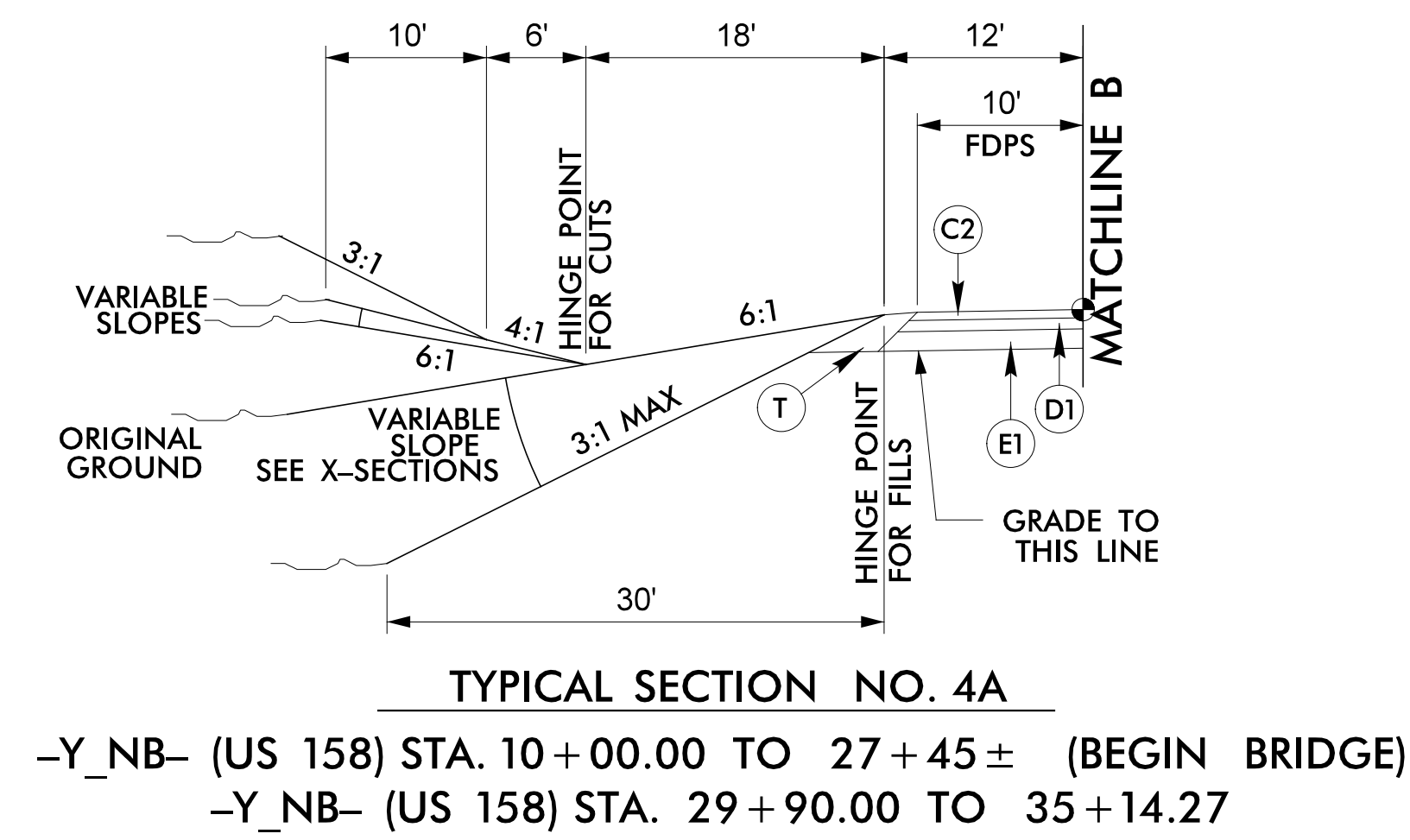
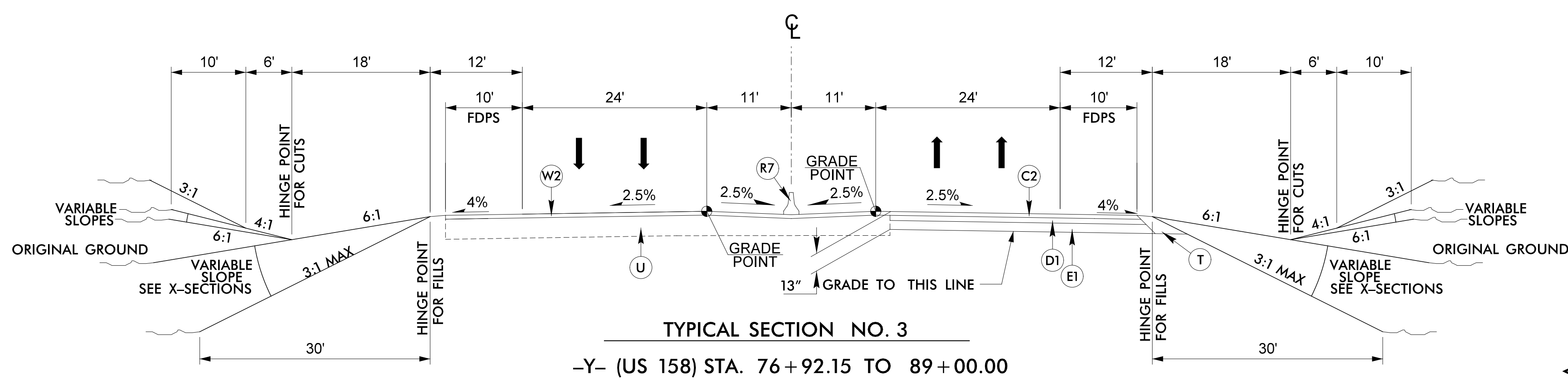


WEDGING DETAIL 2 FOR RESURFACING

6/17/2024
R2576-F01-TYP.dgn
CLOCKLEY

6/2/99

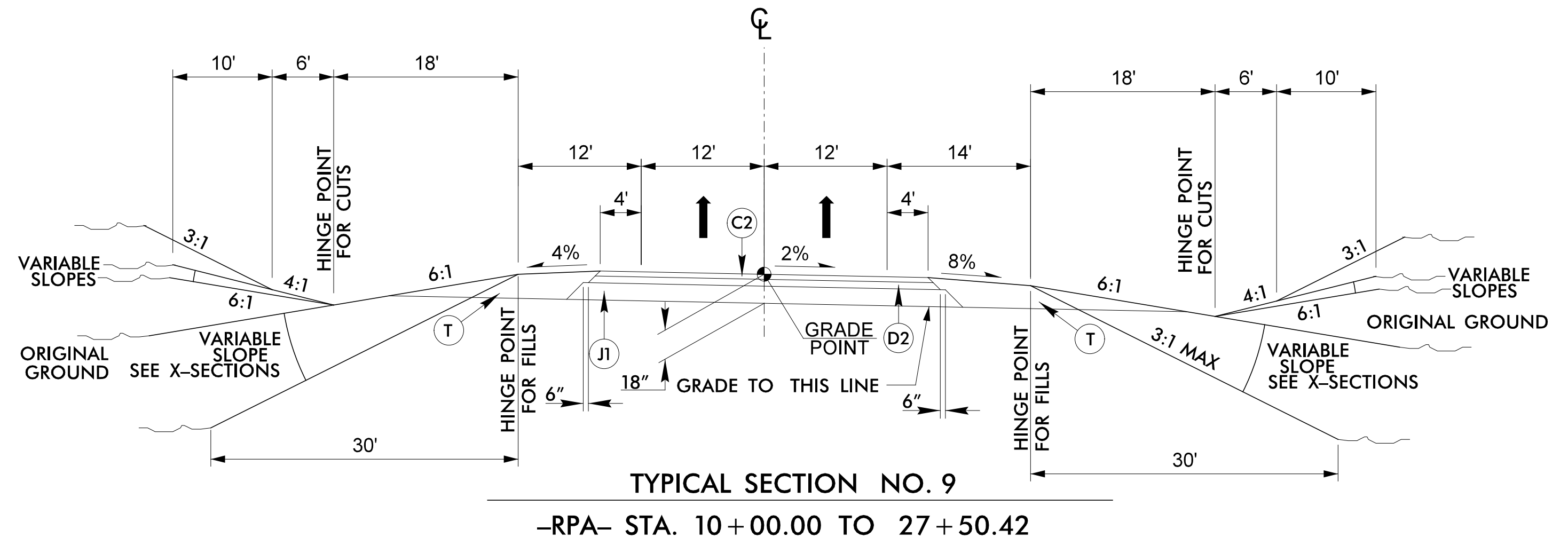
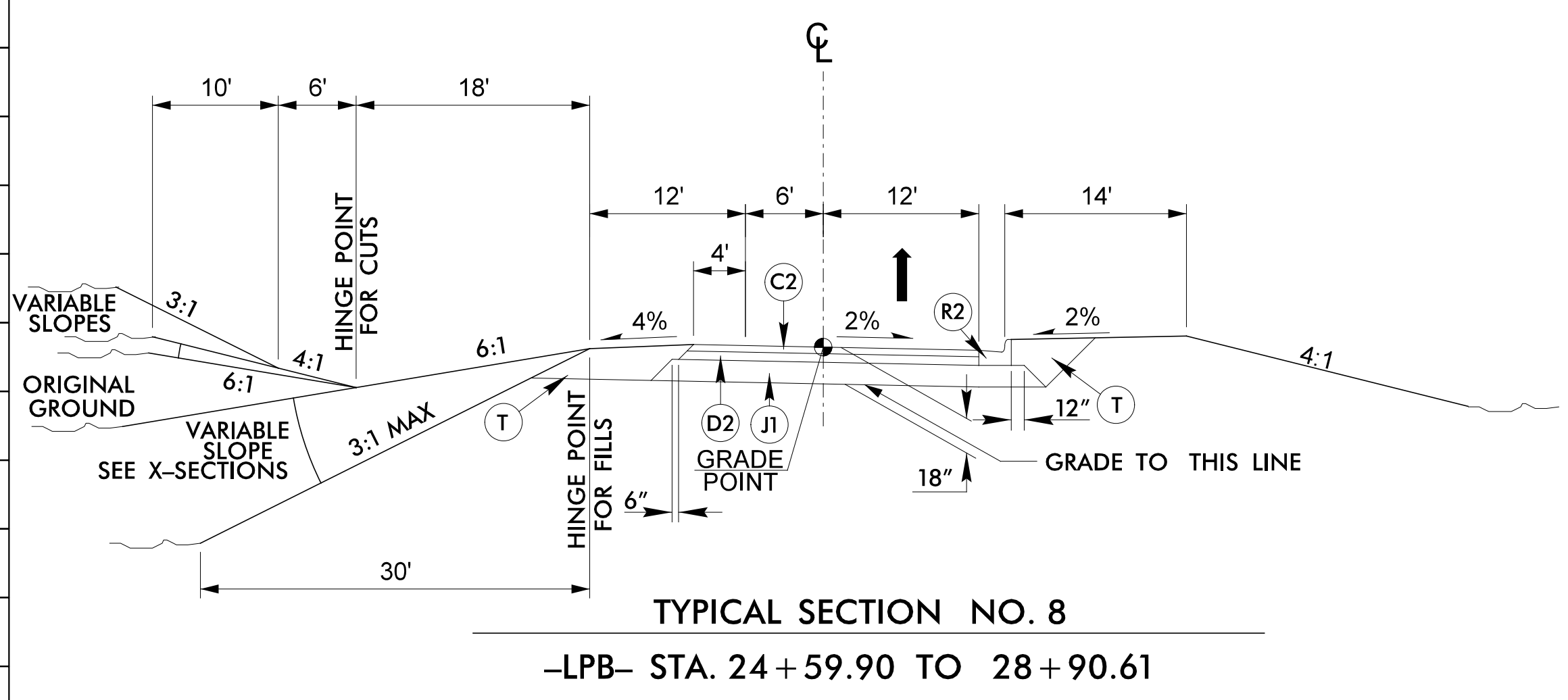
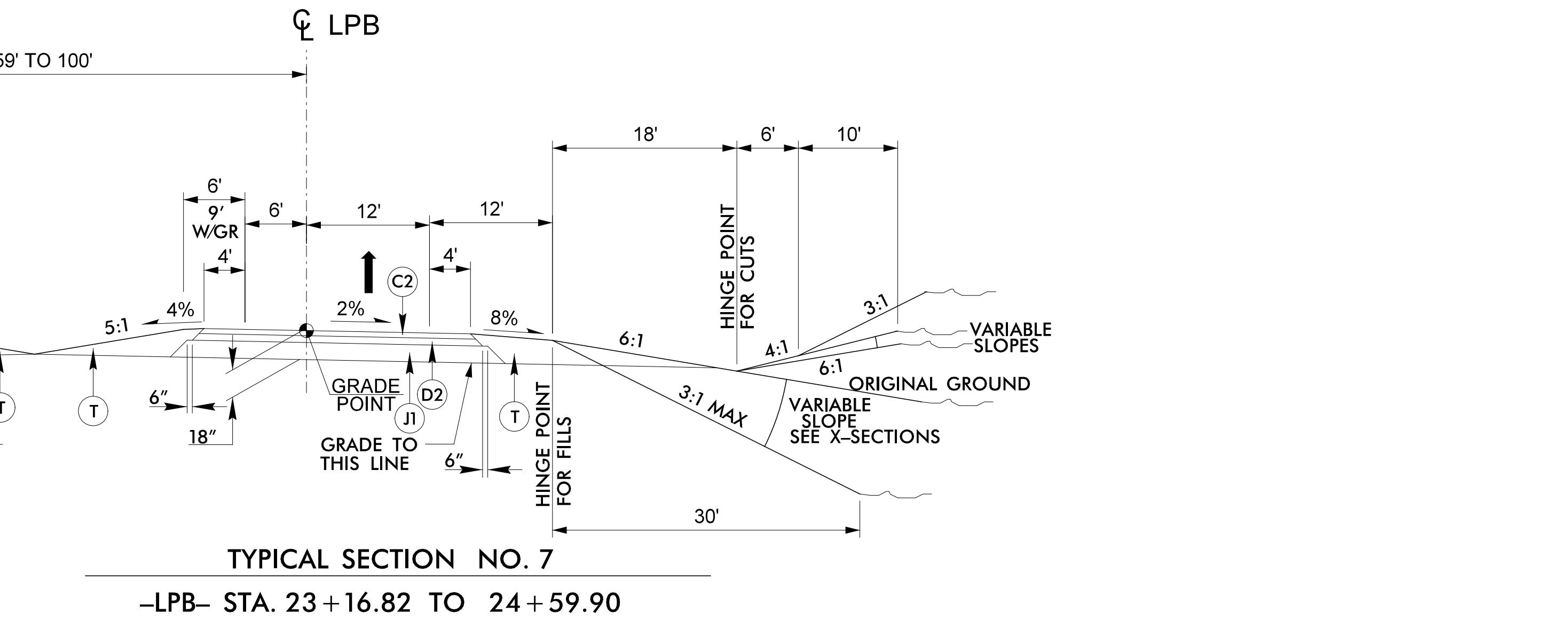
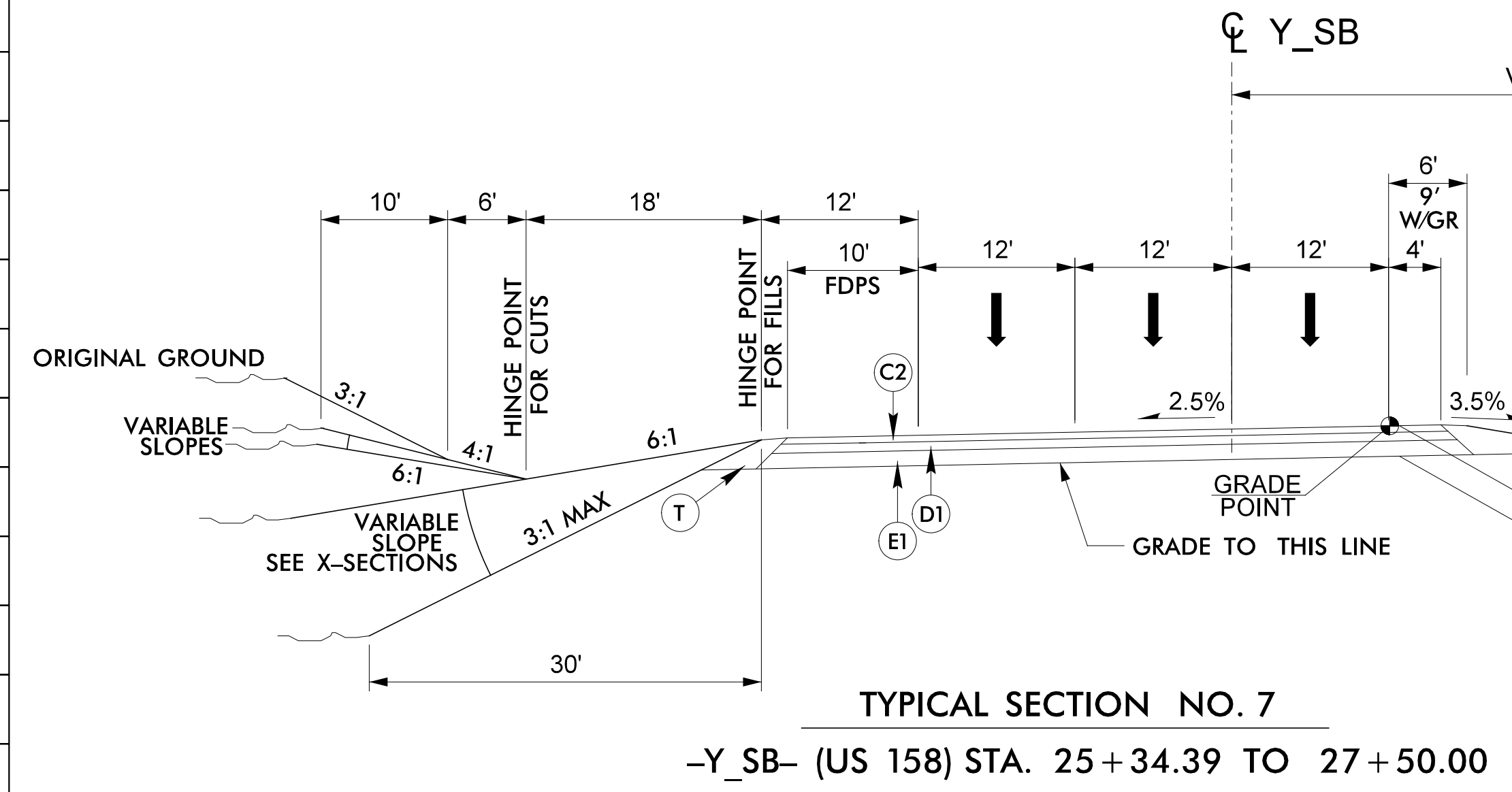
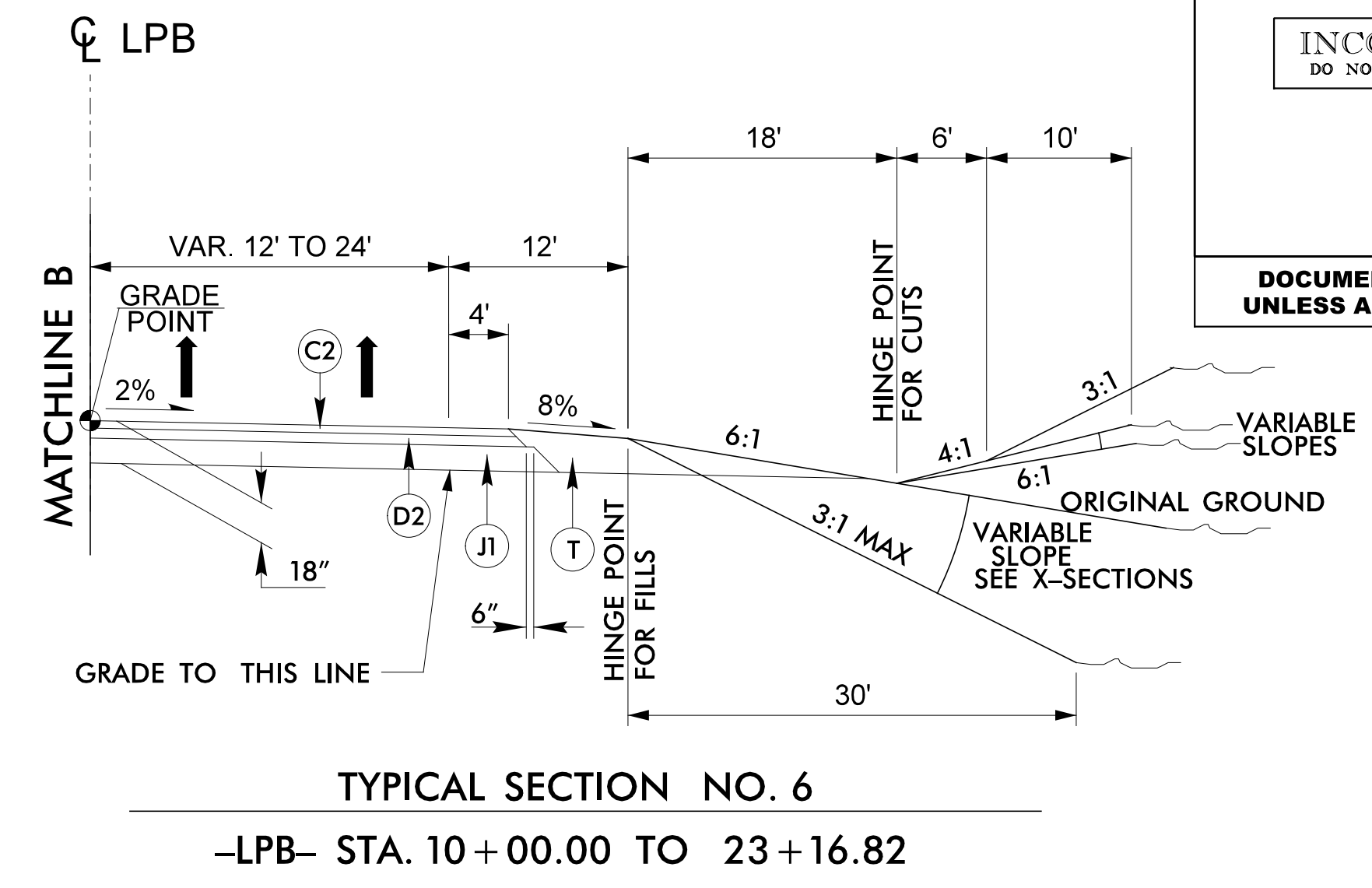
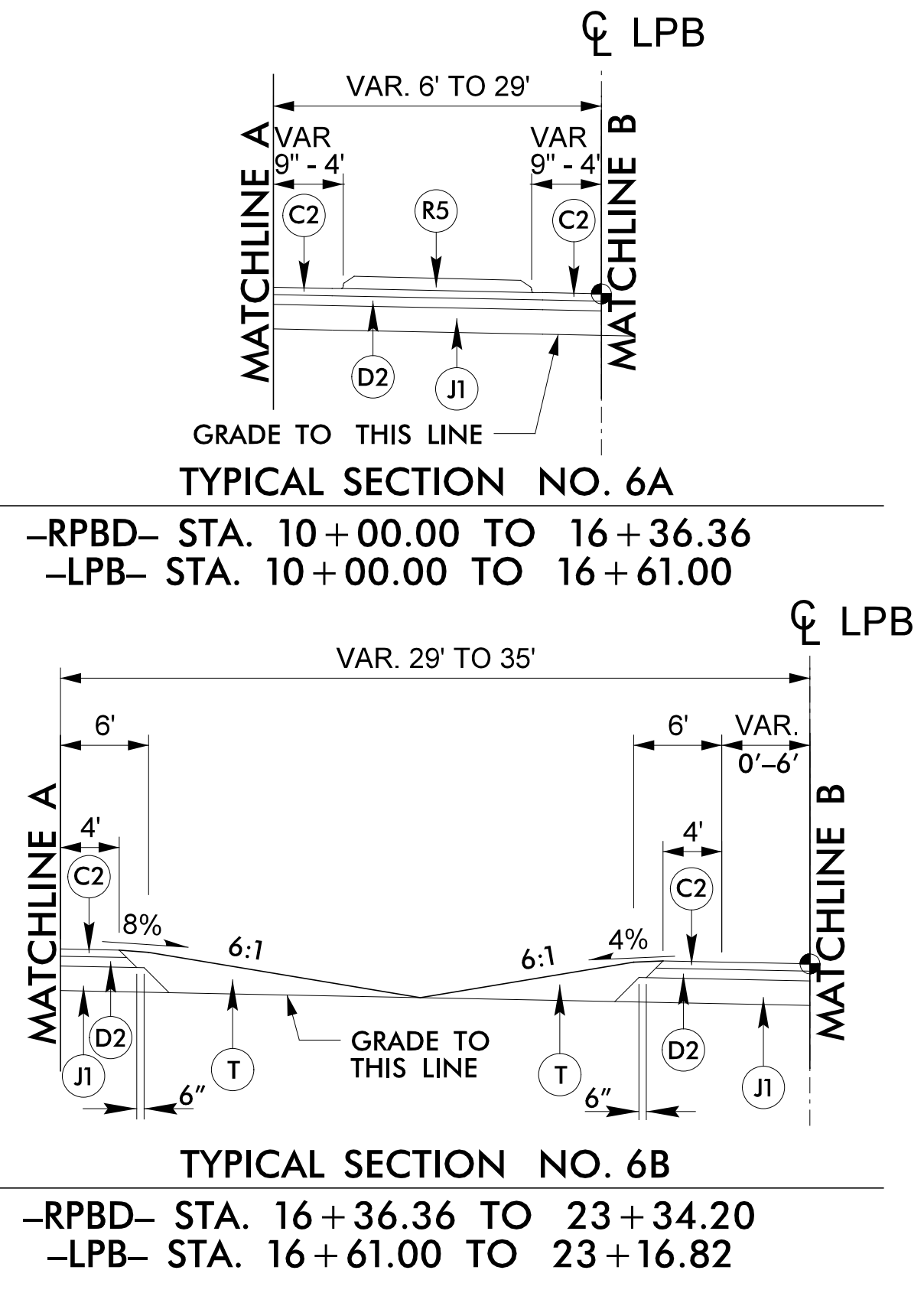
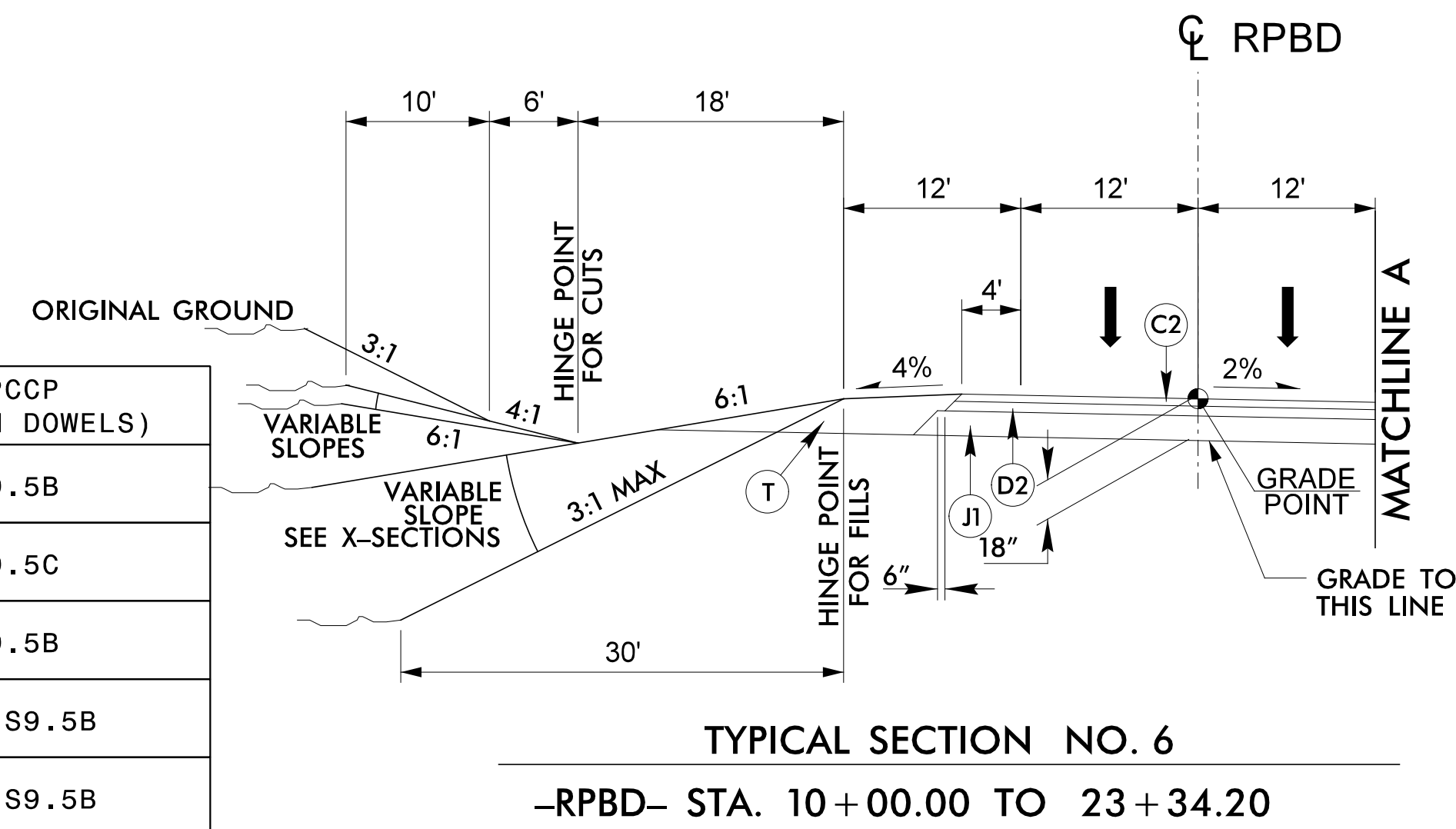
A	12" PCCP (WITH DOWELS)
C1	3" S9.5B
C2	3" S9.5C
C3	1" S9.5B
C4	1.5" S9.5B
C5	VAR. S9.5B
C6	VAR. S9.5C
D1	3" I19.5C
D2	3.5" I19.5C
D3	2.5" I19.5C
D4	VAR. I19.0C
E1	7" B25.0
E2	5" B25.0
E3	VAR. B25.0
J1	11.5" ABC
J2	4" ABC
J3	11" ABC
J4	5" ABC
R1	1'-6" CURB
R2	2'-6" CURB
R3	8"x18" CURB
R4	7" JOINTED CONC. 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



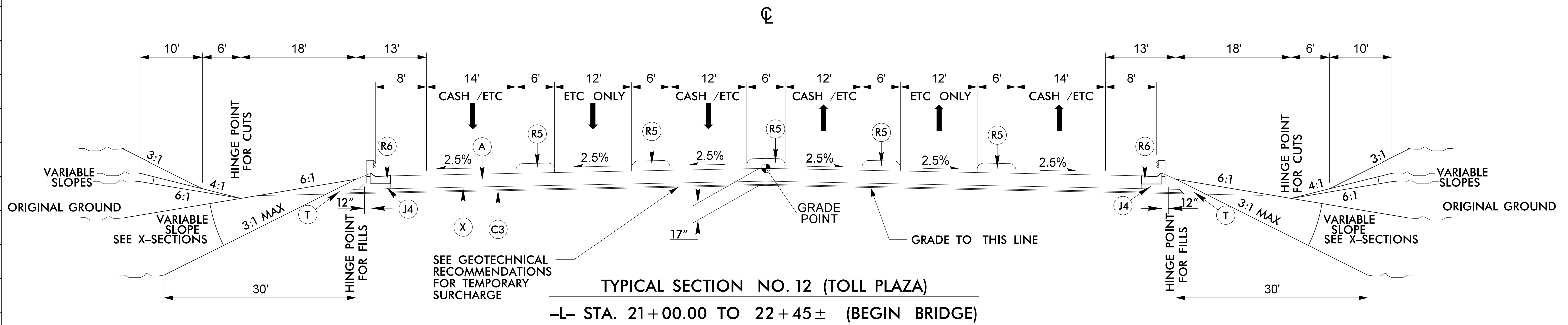
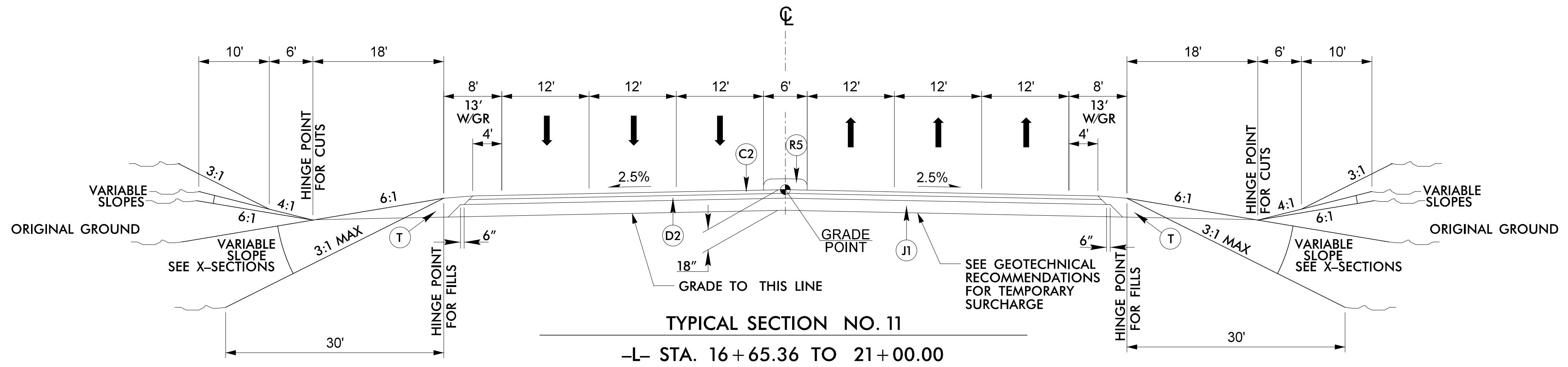
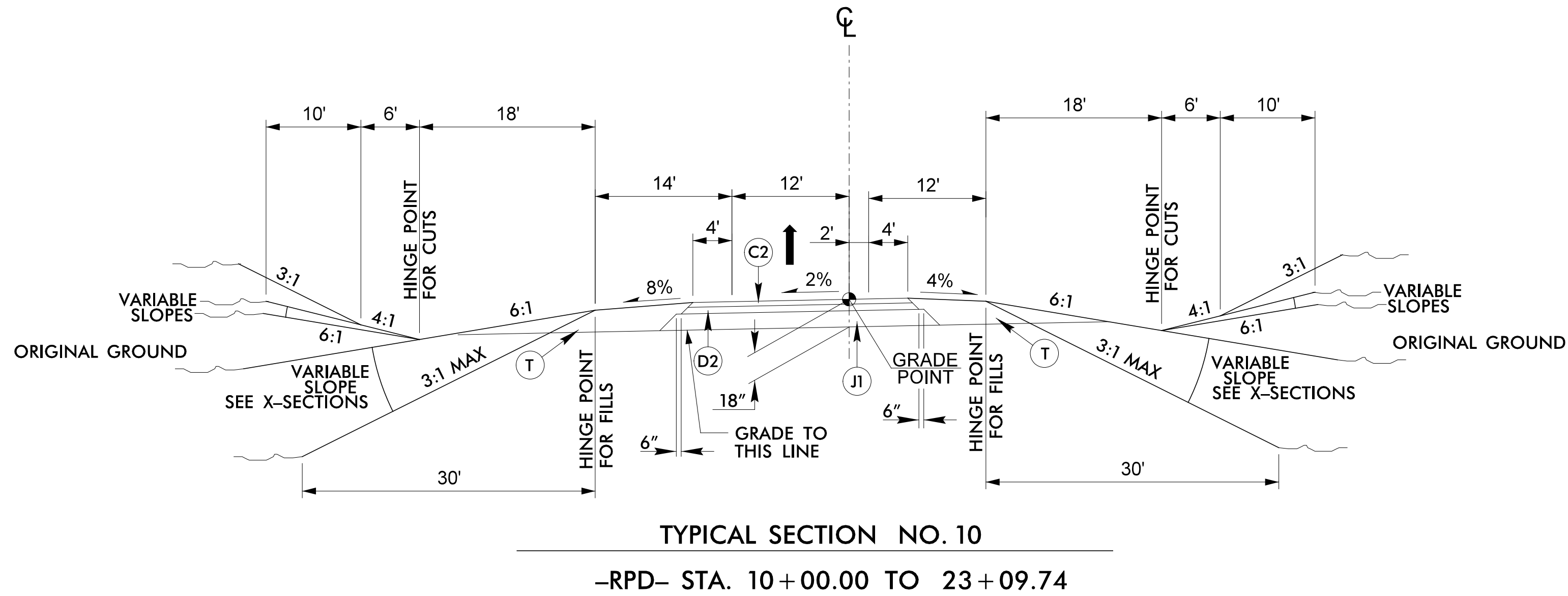
6/17/2024
R03/16/F04= TYP.dgn

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

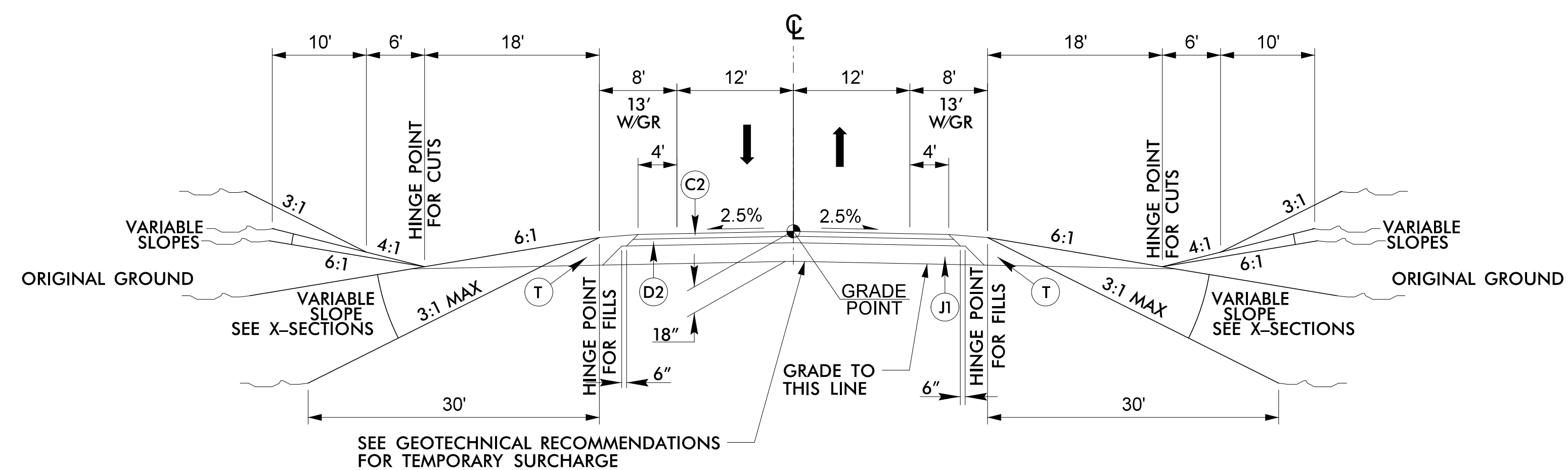


A	12" PCCP (WITH DOWELS)
C1	3" S9.5B
C2	3" S9.5C
C3	1" S9.5B
C4	1.5" S9.5B
C5	VAR. S9.5B
C6	VAR. S9.5C
D1	3" I19.5C
D2	3.5" I19.5C
D3	2.5" I19.5C
D4	VAR. I19.0C
E1	7" B25.0
E2	5" B25.0
E3	VAR. B25.0
J1	11.5" ABC
J2	4" ABC
J3	11" ABC
J4	5" ABC
R1	1'-6" CURB
R2	2'-6" CURB
R3	8"x18" CURB
R4	7" JOINTED CONC. 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

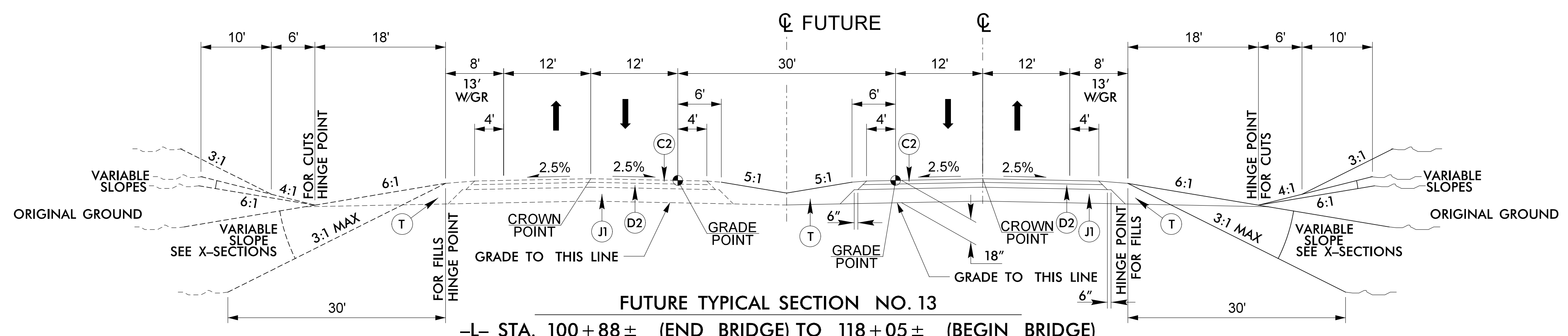


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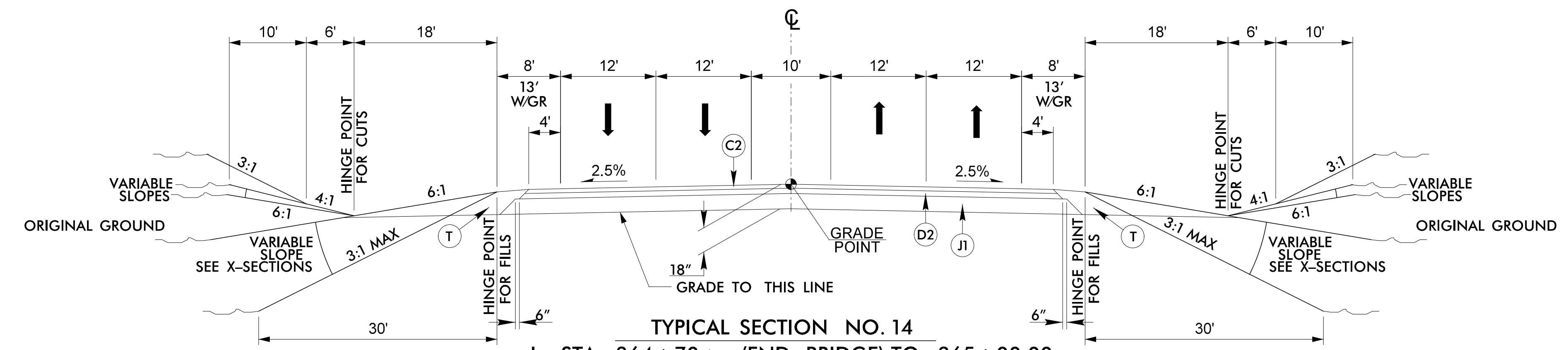
A	12" PCCP (WITH DOWELS)
C1	3" S9.5B
C2	3" S9.5C
C3	1" S9.5B
C4	1.5" S9.5B
C5	VAR. S9.5B
C6	VAR. S9.5C
D1	3" I19.5C
D2	3.5" I19.5C
D3	2.5" I19.5C
D4	VAR. I19.0C
E1	7" B25.0
E2	5" B25.0
E3	VAR. B25.0
J1	11.5" ABC
J2	4" ABC
J3	11" ABC
J4	5" ABC
R1	1'-6" CURB
R2	2'-6" CURB
R3	8"x18" CURB
R4	7" JOINTED CONC. 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



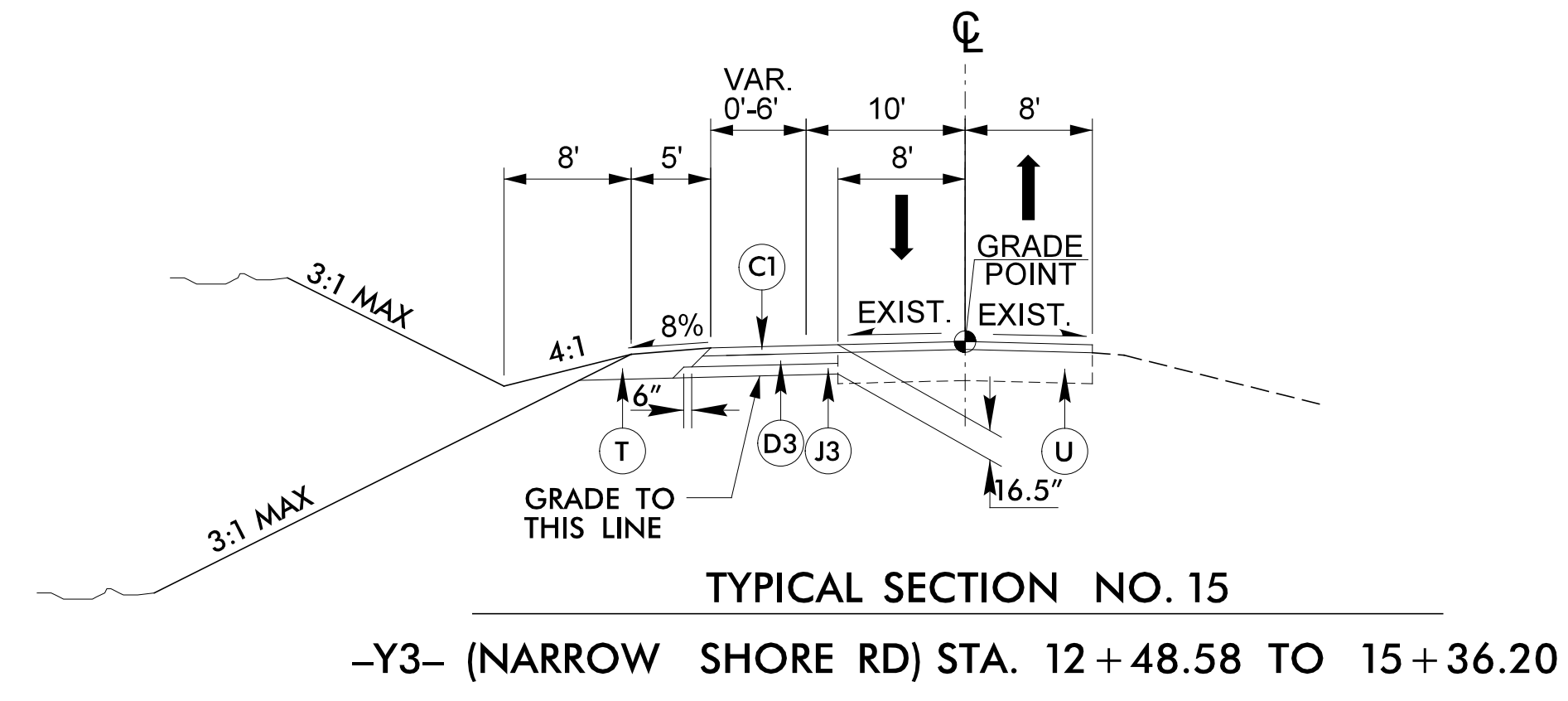
TYPICAL SECTION NO. 13
 -L- STA. 100+88± (END BRIDGE) TO 118+05± (BEGIN BRIDGE)



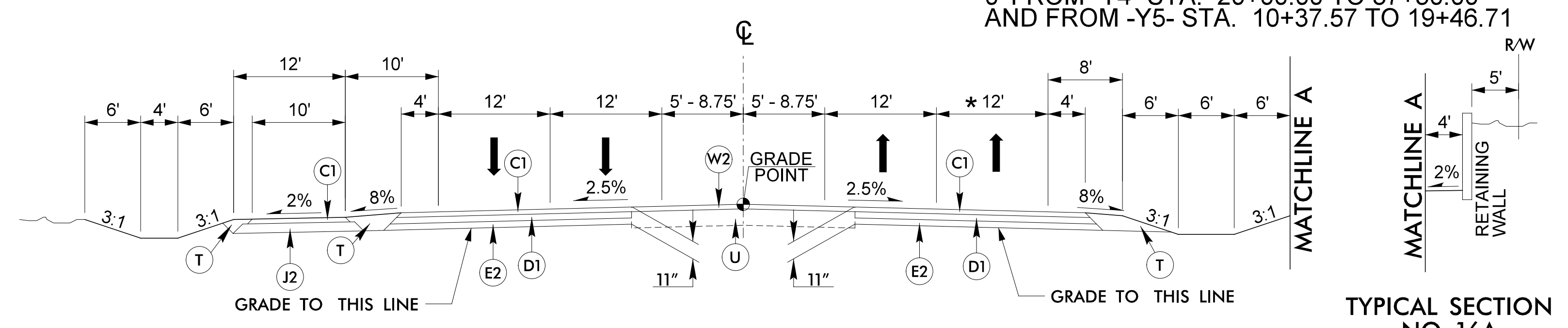
FUTURE TYPICAL SECTION NO. 13
 -L- STA. 100+88± (END BRIDGE) TO 118+05± (BEGIN BRIDGE)



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

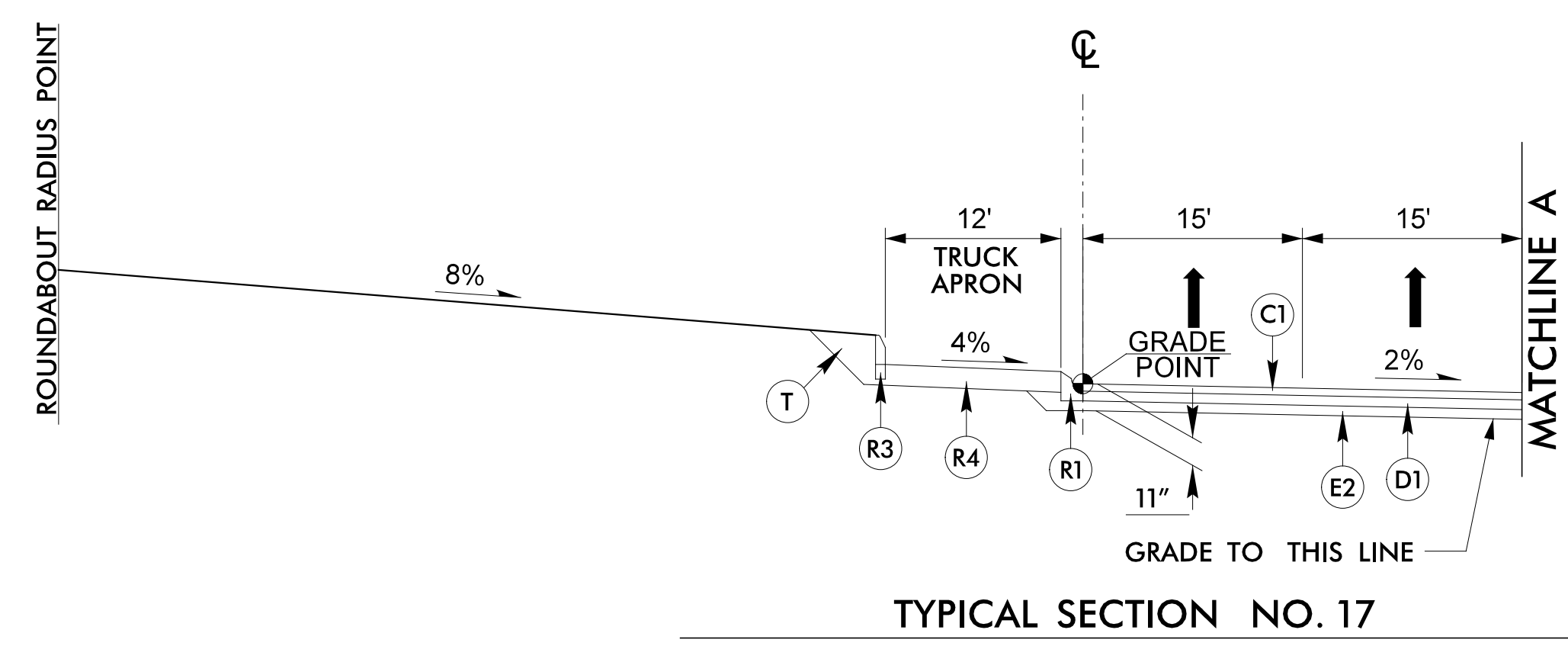
* 0' FROM -Y4- STA. 20+00.00 TO 37+50.00
 AND FROM -Y5- STA. 10+37.57 TO 19+46.71

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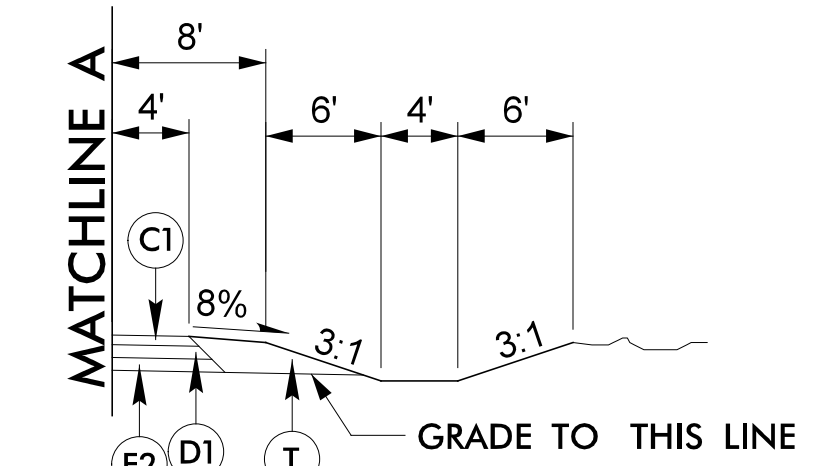
6/2/99

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

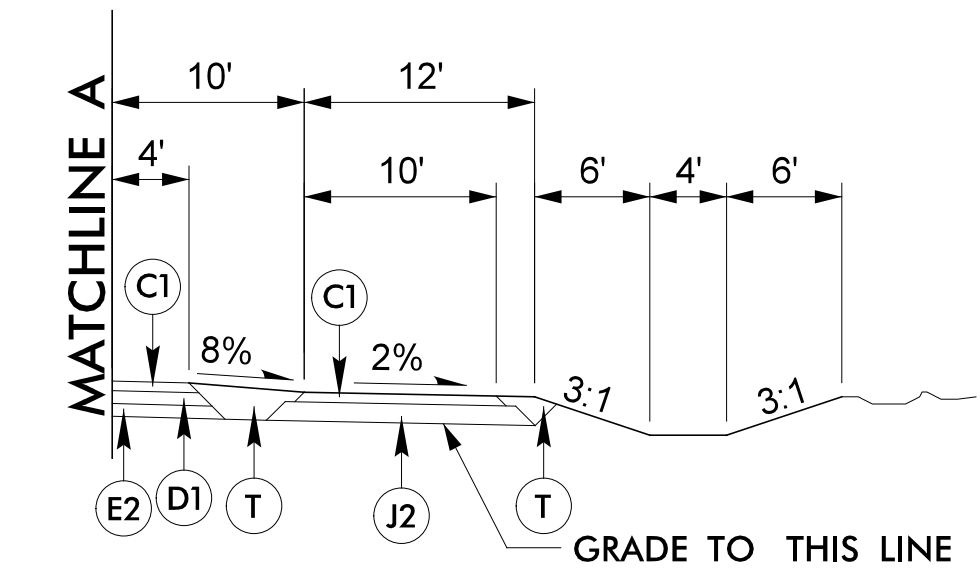
A	12" PCCP (WITH DOWELS)
C1	3" S9.5B
C2	3" S9.5C
C3	1" S9.5B
C4	1.5" S9.5B
C5	VAR. S9.5B
C6	VAR. S9.5C
D1	3" I19.5C
D2	3.5" I19.5C
D3	2.5" I19.5C
D4	VAR. I19.0C
E1	7" B25.0
E2	5" B25.0
E3	VAR. B25.0
J1	11.5" ABC
J2	4" ABC
J3	11" ABC
J4	5" ABC
R1	1'-6" CURB
R2	2'-6" CURB
R3	8"x18" CURB
R4	7" JOINTED CONC. 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



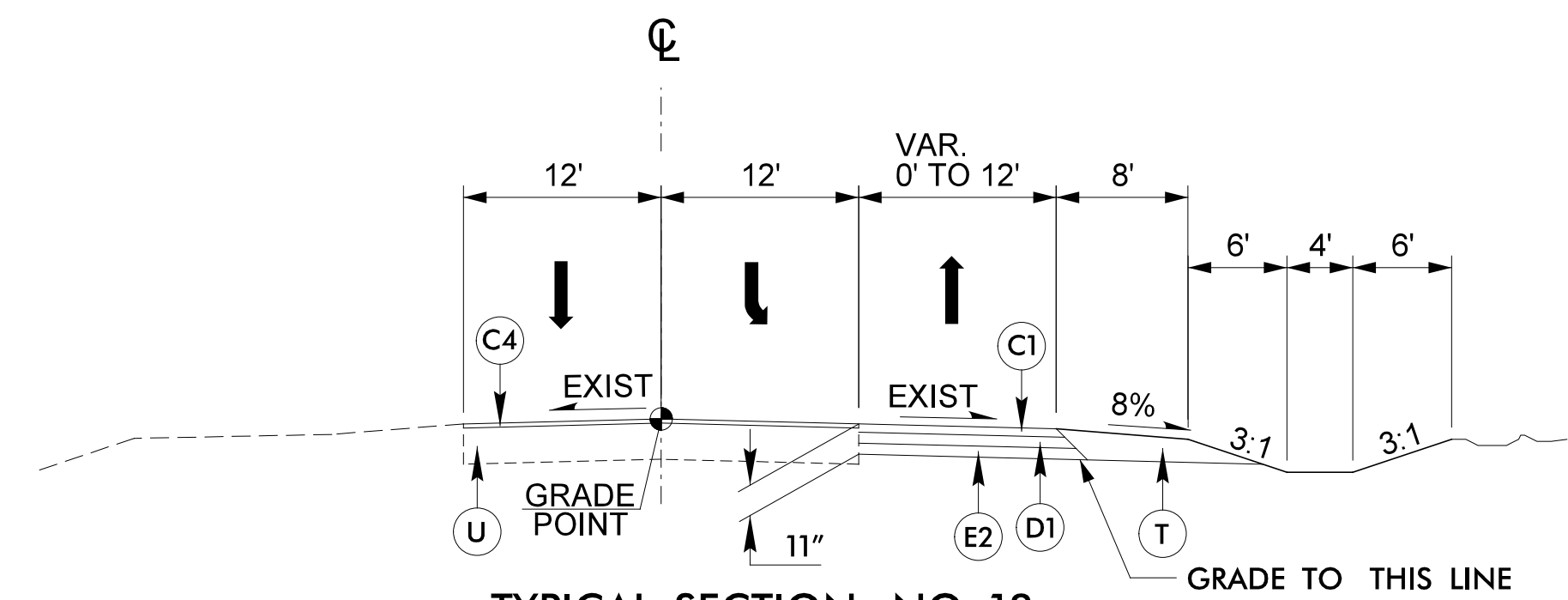
TYPICAL SECTION NO. 17
 -Y5R- (ROUNDAABOUT) STA. 10+00.00 TO 14+39.82



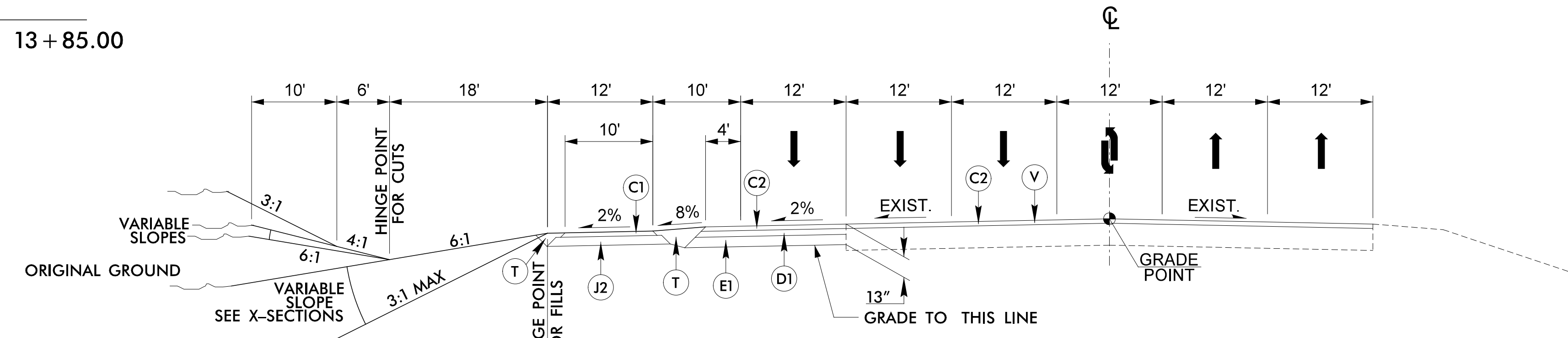
TYPICAL SECTION NO. 17A
 -Y5R- STA. 11+12.25 TO 13+20.32



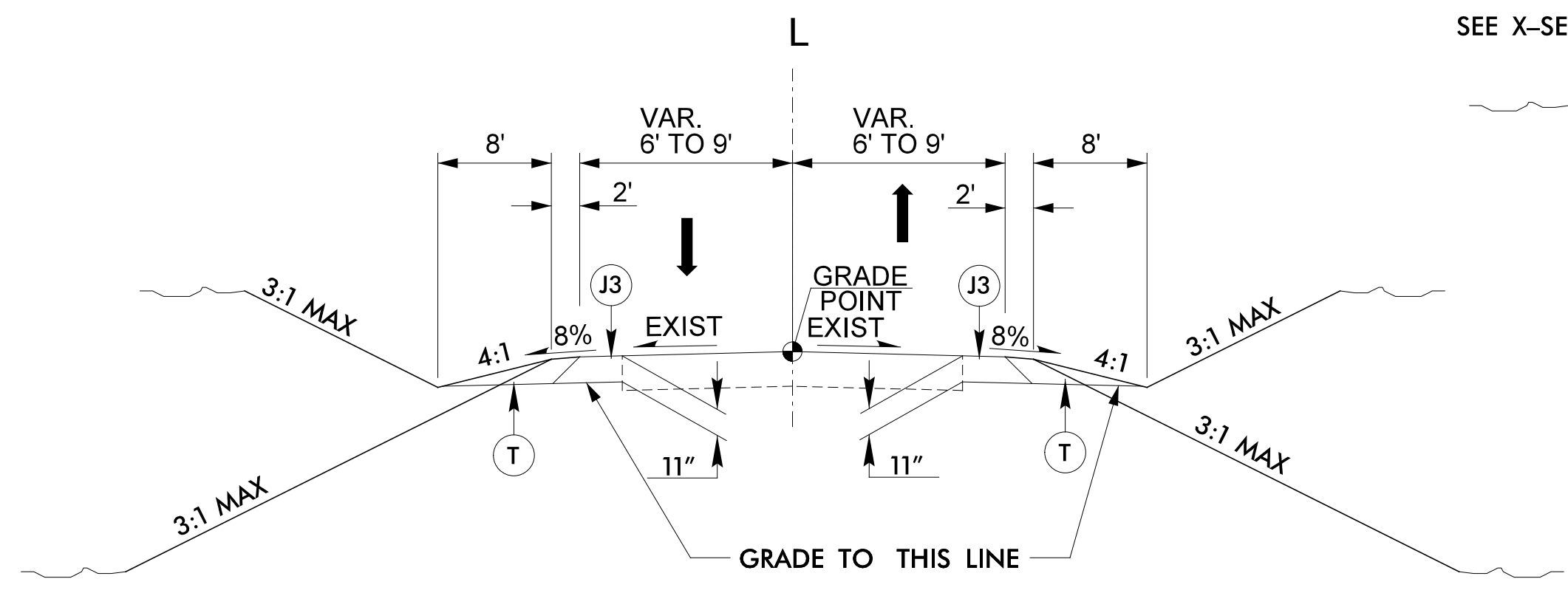
TYPICAL SECTION NO. 17B
 -Y5R- STA. 10+00.00 TO 11+12.25
 -Y5R- STA. 13+20.32 TO 14+39.82



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

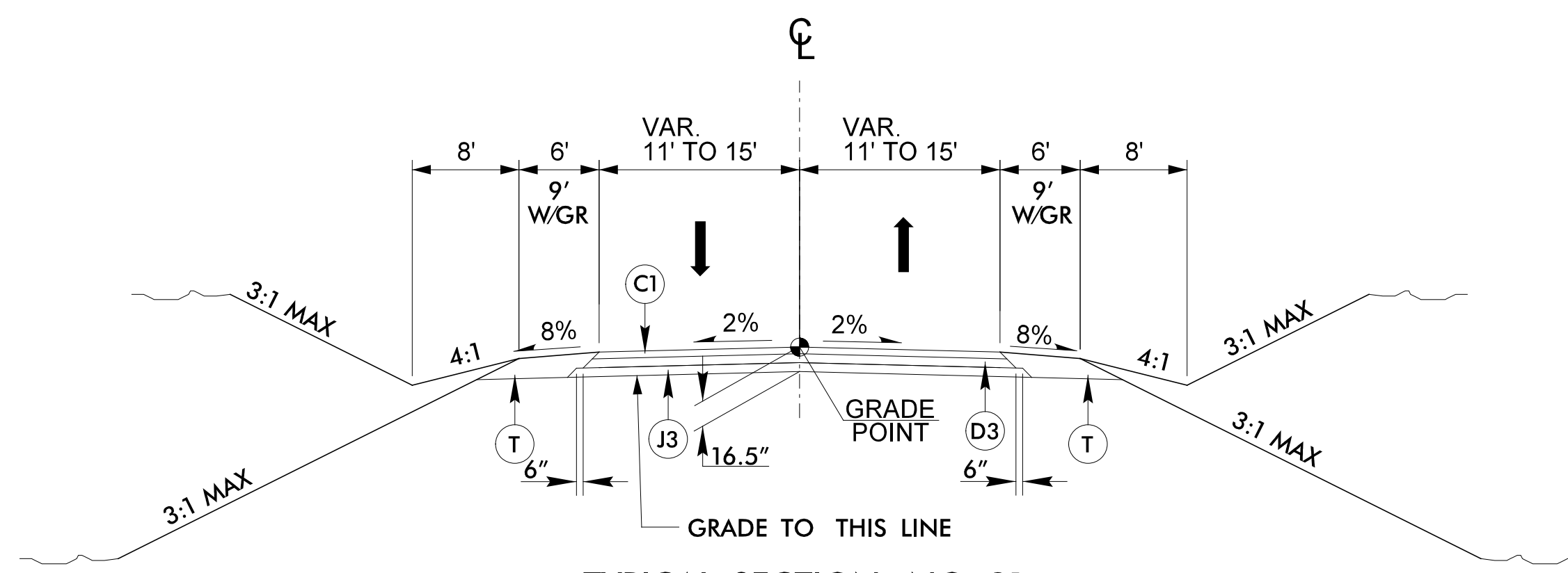


TYPICAL SECTION NO. 20
 -Y1B- (YOUNG RD) STA. 10+20.00 TO 11+15.00

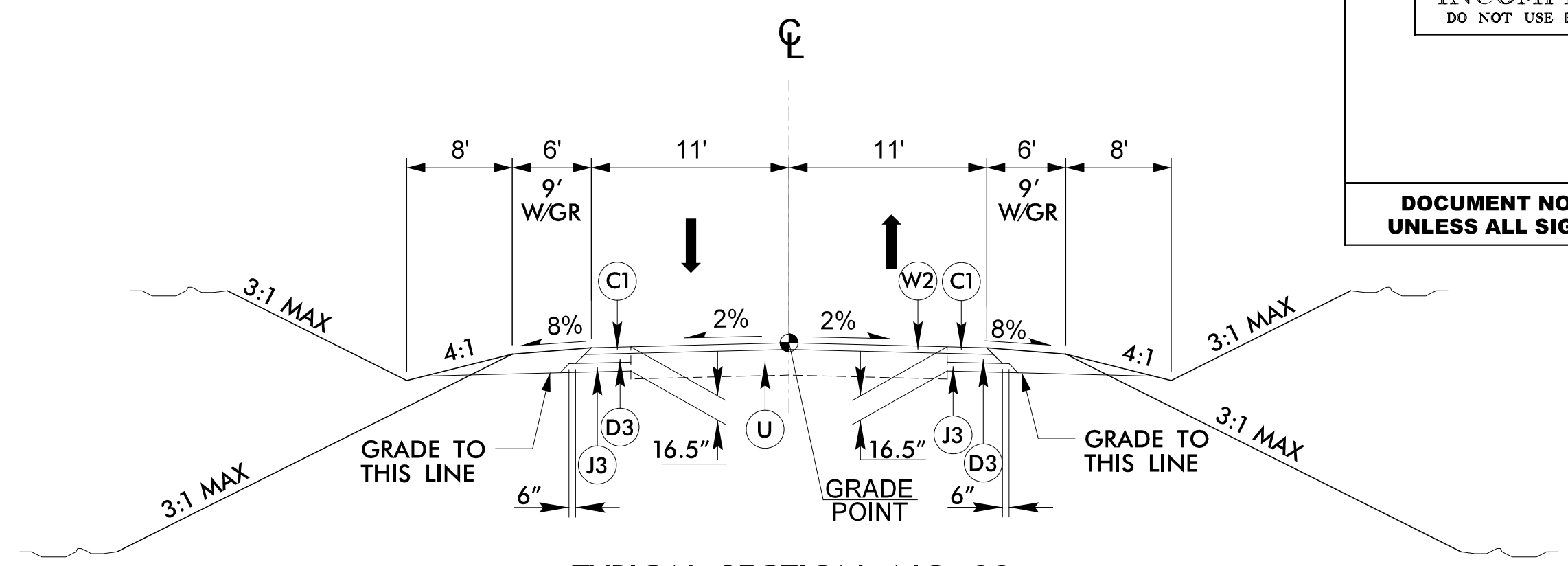
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 R03/16/24-TPP.dgn
 R03/16/24-TPP.dgn

6/2/99

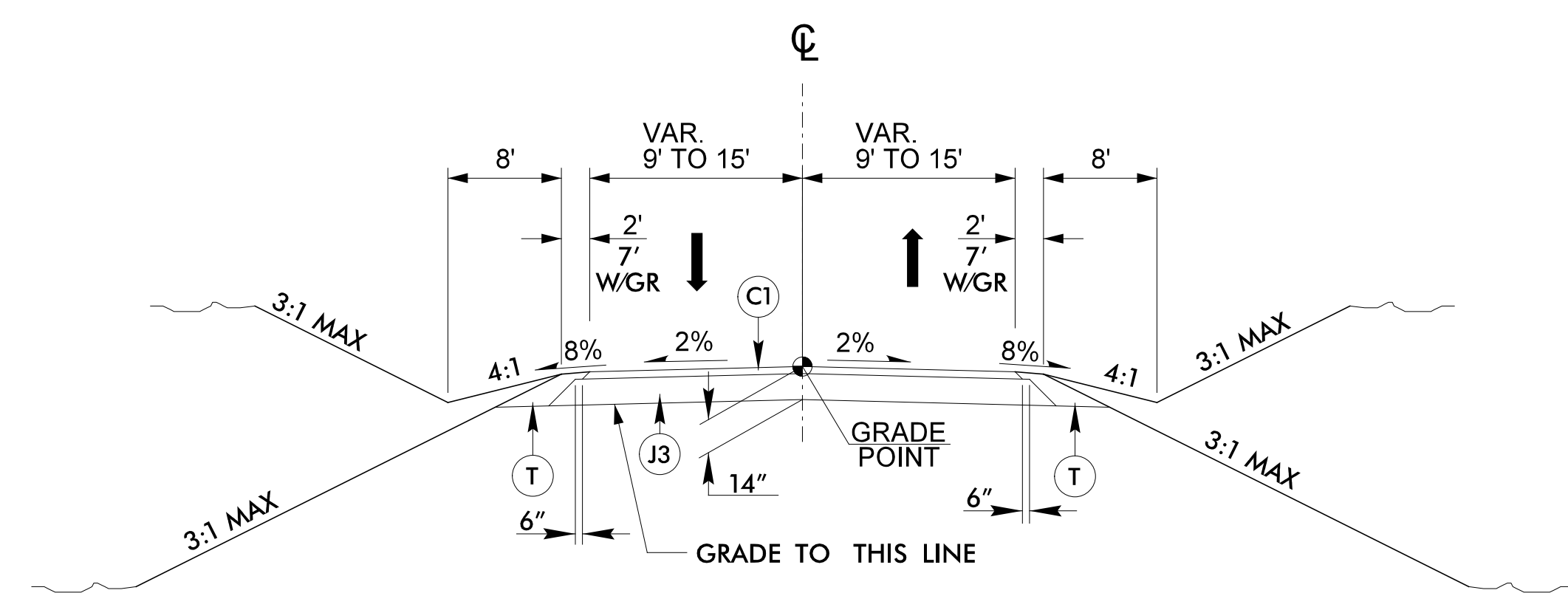
A	12" PCCP (WITH DOWELS)
C1	3" S9.5B
C2	3" S9.5C
C3	1" S9.5B
C4	1.5" S9.5B
C5	VAR. S9.5B
C6	VAR. S9.5C
D1	3" I19.5C
D2	3.5" I19.5C
D3	2.5" I19.5C
D4	VAR. I19.0C
E1	7" B25.0
E2	5" B25.0
E3	VAR. B25.0
J1	11.5" ABC
J2	4" ABC
J3	11" ABC
J4	5" ABC
R1	1'-6" CURB
R2	2'-6" CURB
R3	8"x18" CURB
R4	7" JOINTED CONC. 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



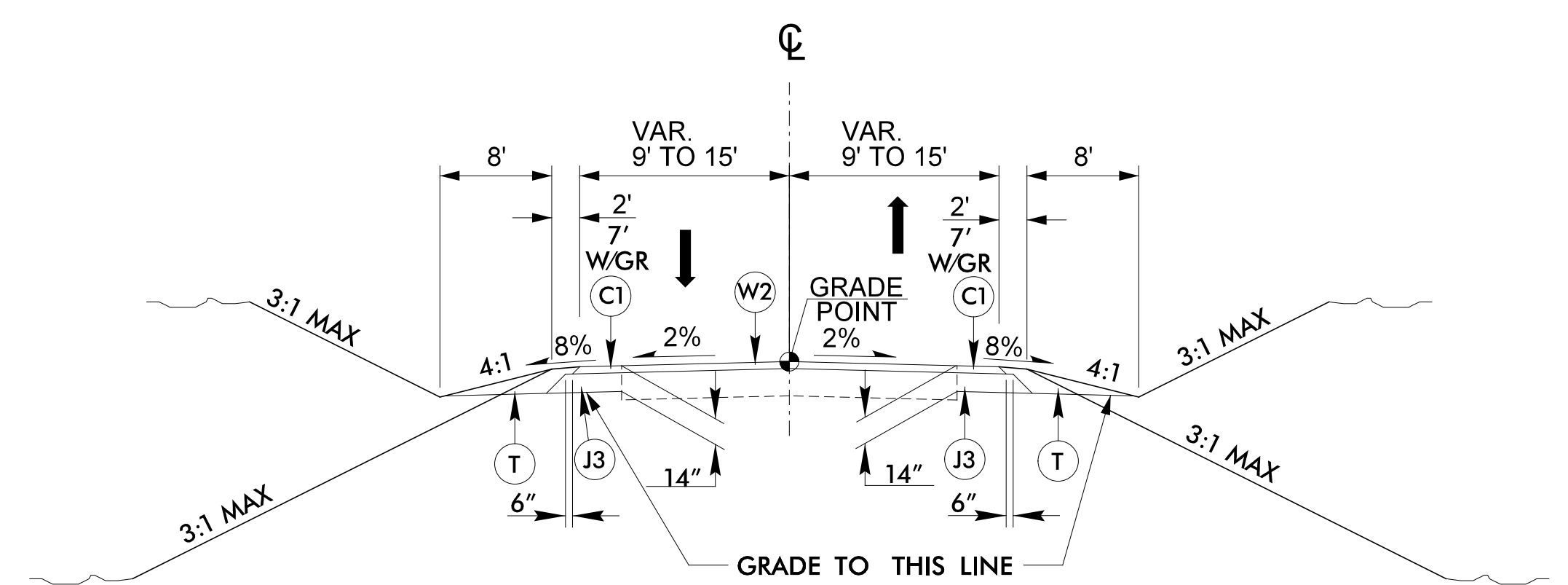
TYPICAL SECTION NO. 21
 -Y2- (AYDLETT RD) STA. 10+35.00 TO 28+08.04



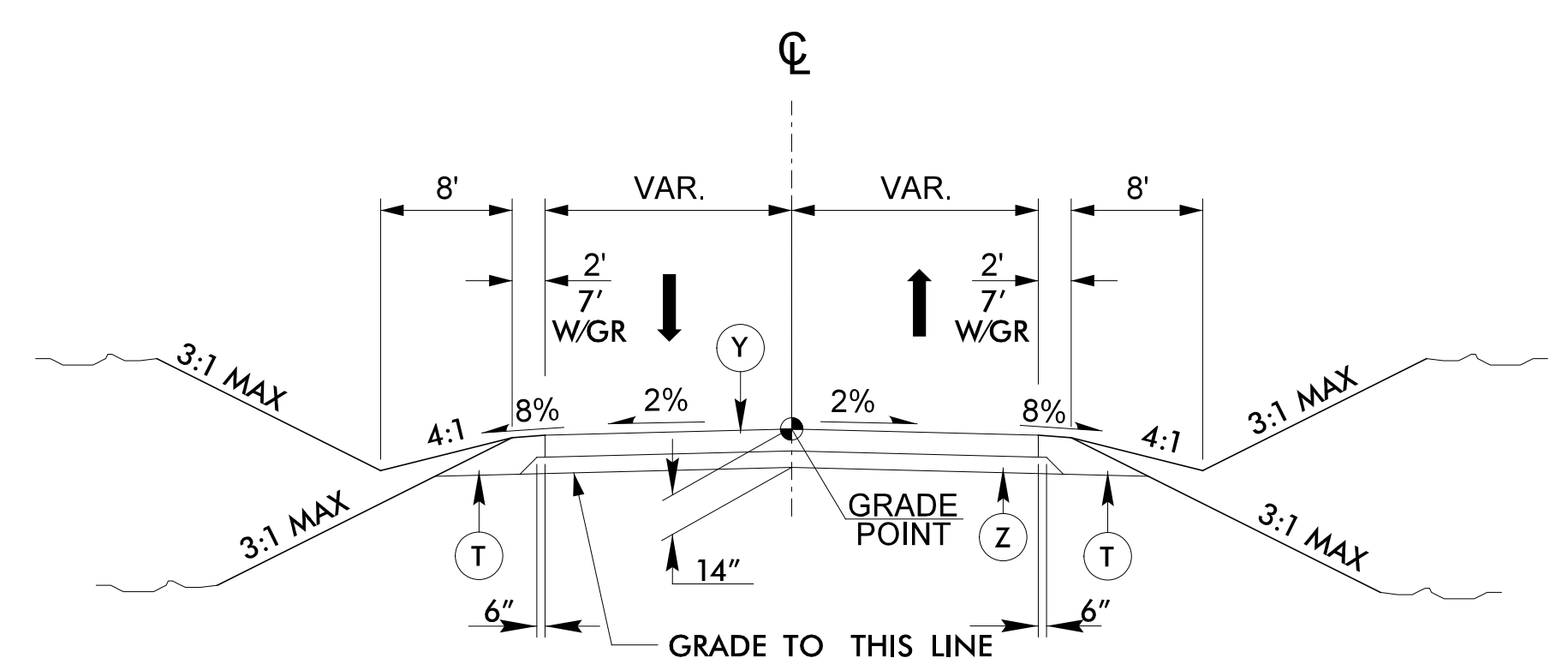
TYPICAL SECTION NO. 22
 -Y2- (AYDLETT RD) STA. 28+08.04 TO 31+75.00



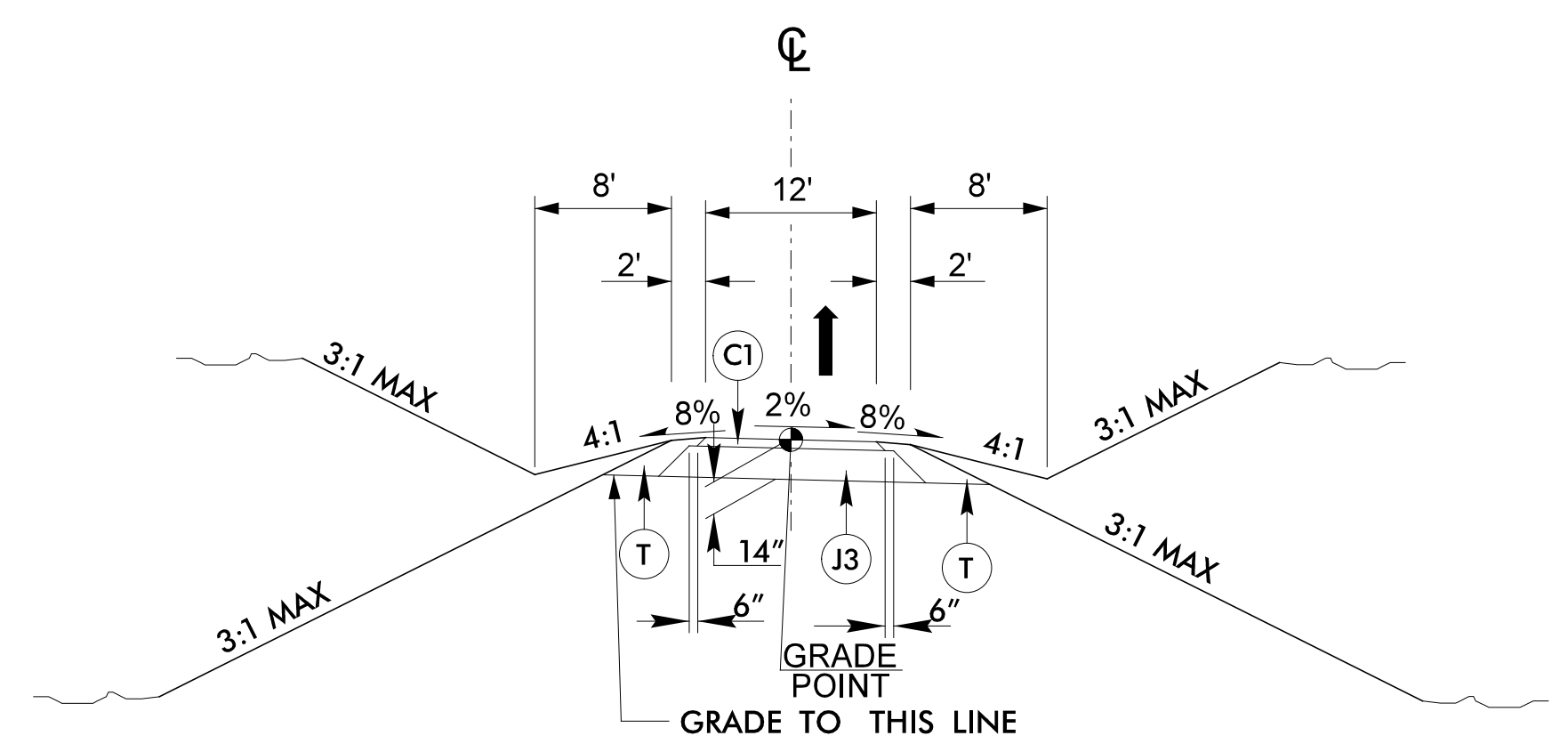
TYPICAL SECTION NO. 23
 -Y1A- STA. 10+06.00 TO 25+27.92
 -Y2A- STA. 10+11.02 TO 27+16.90
 -Y3B- STA. 10+10.00 TO 12+81.74
 -Y4C- STA. 10+32.75 TO 11+71.09



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



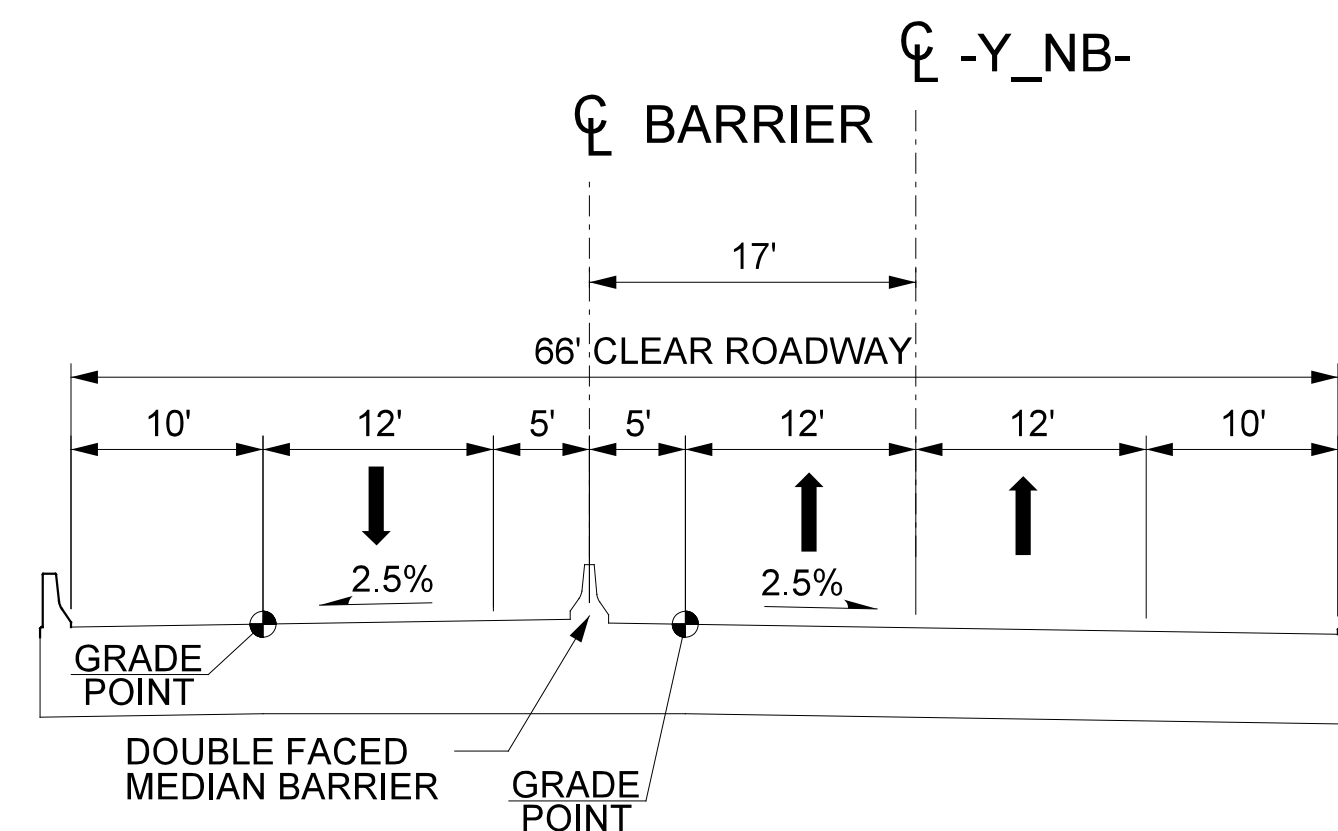
TYPICAL SECTION NO. 26
 -DRW1- STA. 10+70.00 TO 13+51.27

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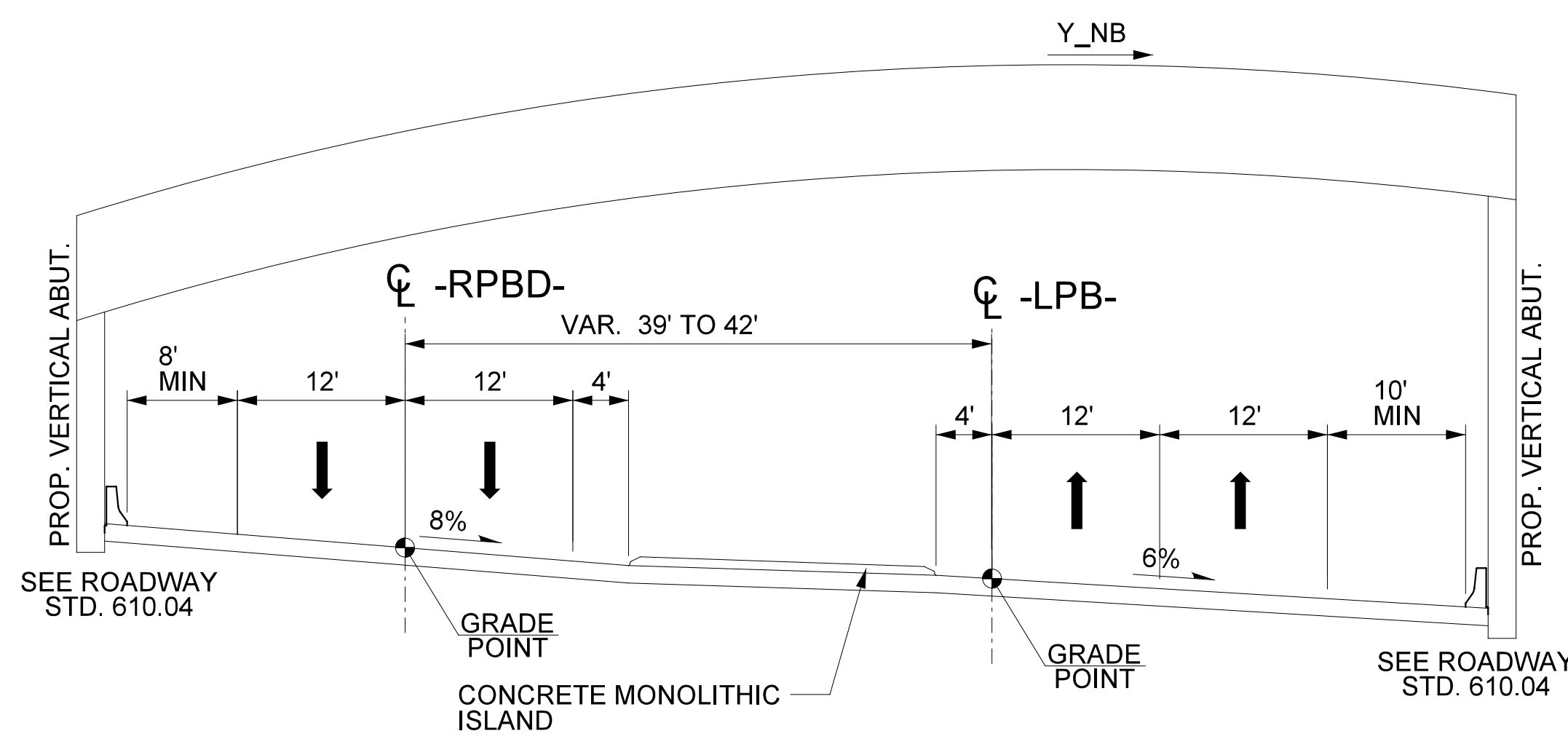
6/2/99

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

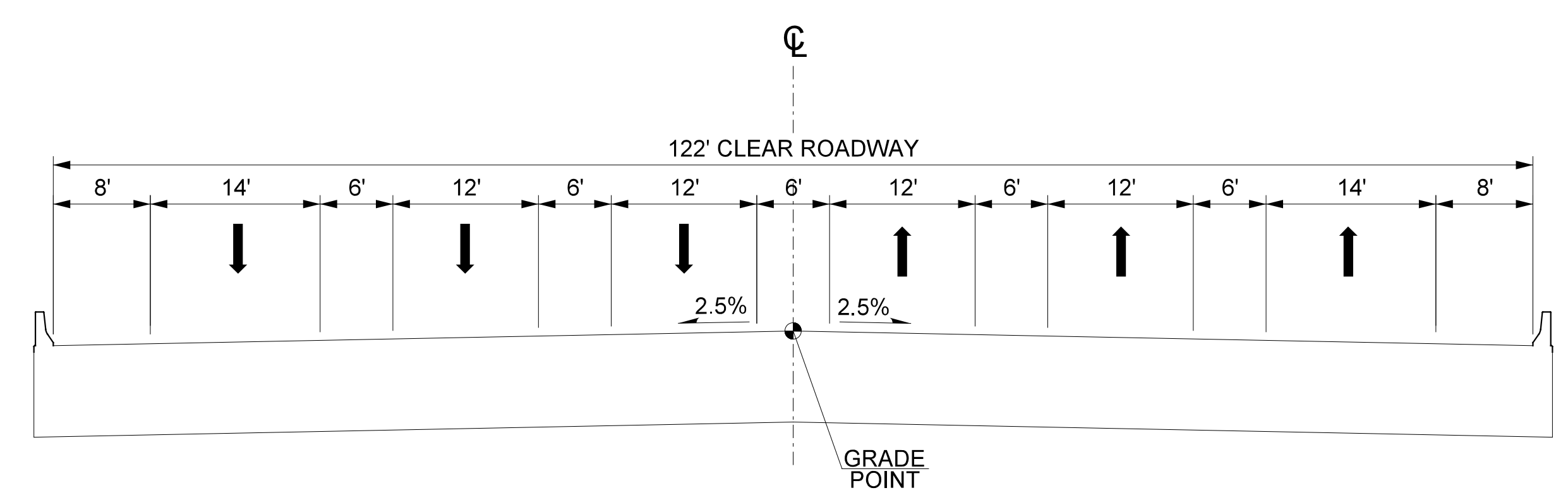


TYPICAL SECTION UNDER BRIDGE

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R0376-F04-TYP.dgn
C. KELLEY

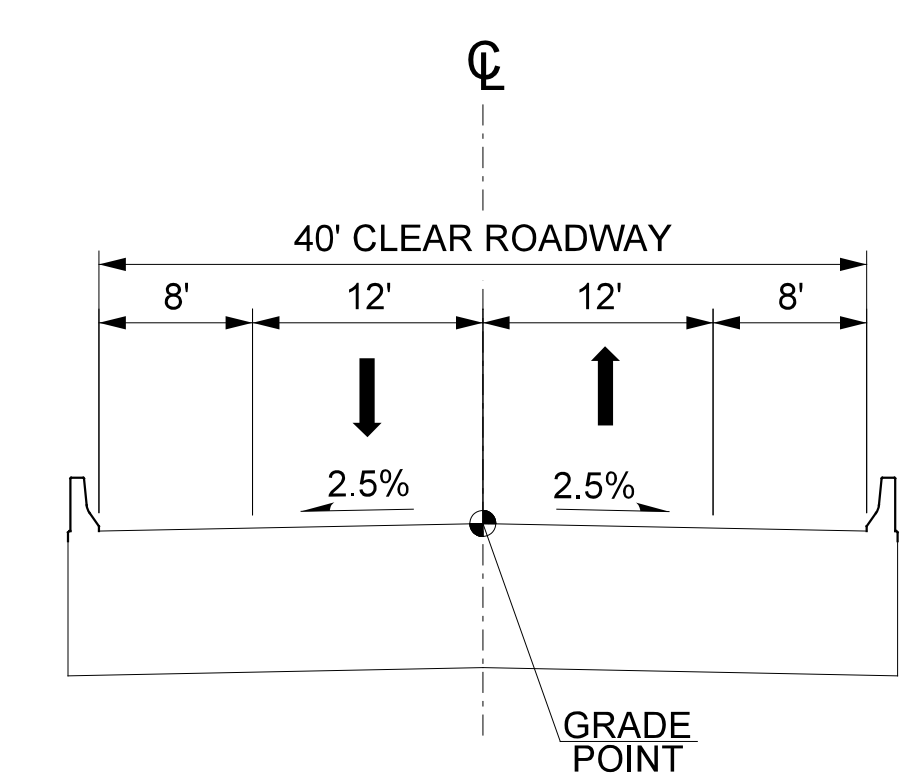
PROJECT REFERENCE NO. R-2576	SHEET NO. 2A-9
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

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



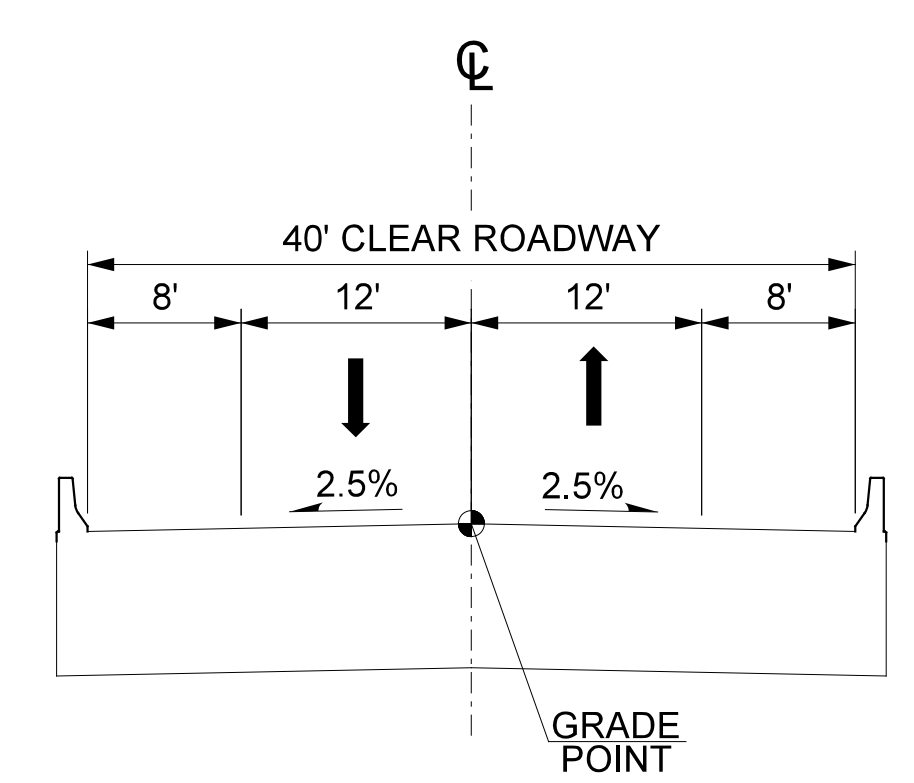
BRIDGE TYPICAL NO. 1
-L- STA. 22 + 45 ± (BEGIN BRIDGE) TO 26 + 00.00

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



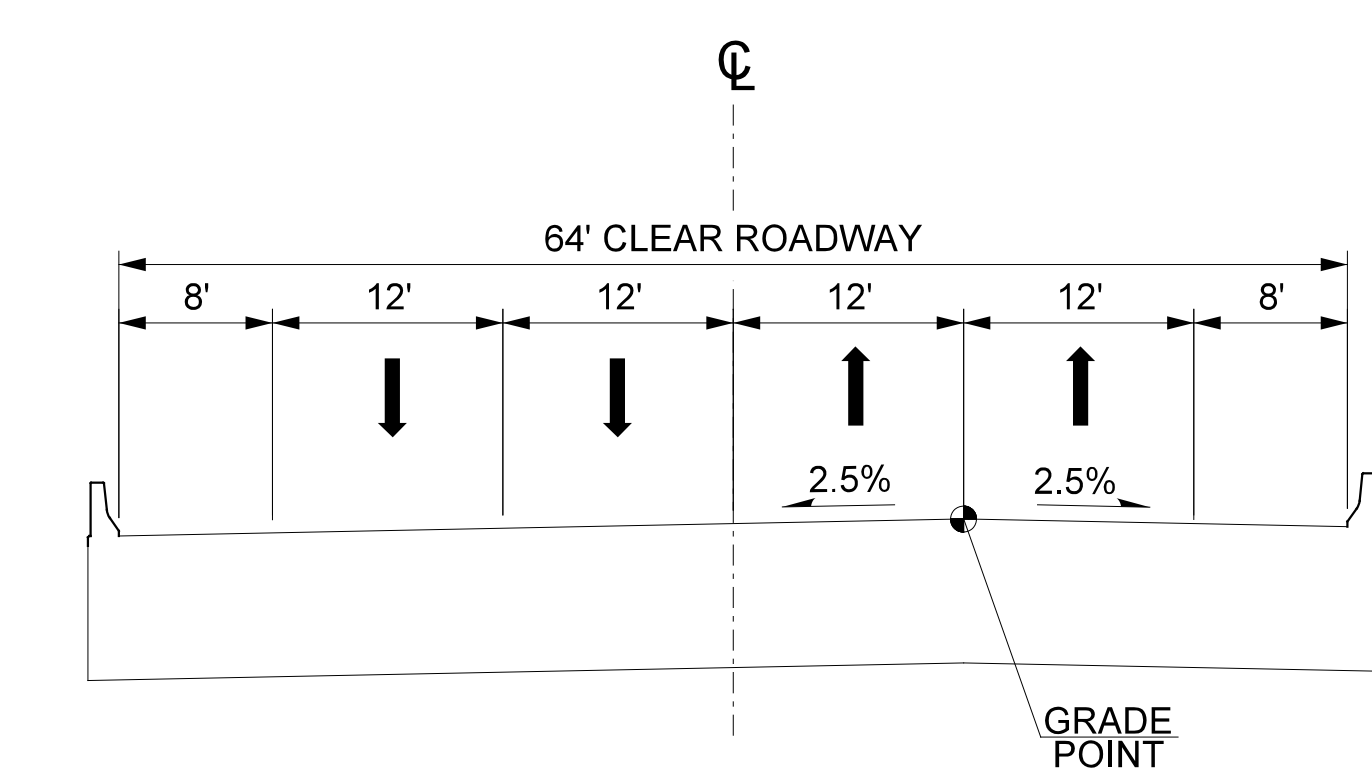
BRIDGE TYPICAL NO. 2
-L- STA. 33 + 00.00 TO STA. 100 + 88 ± (END BRIDGE)

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

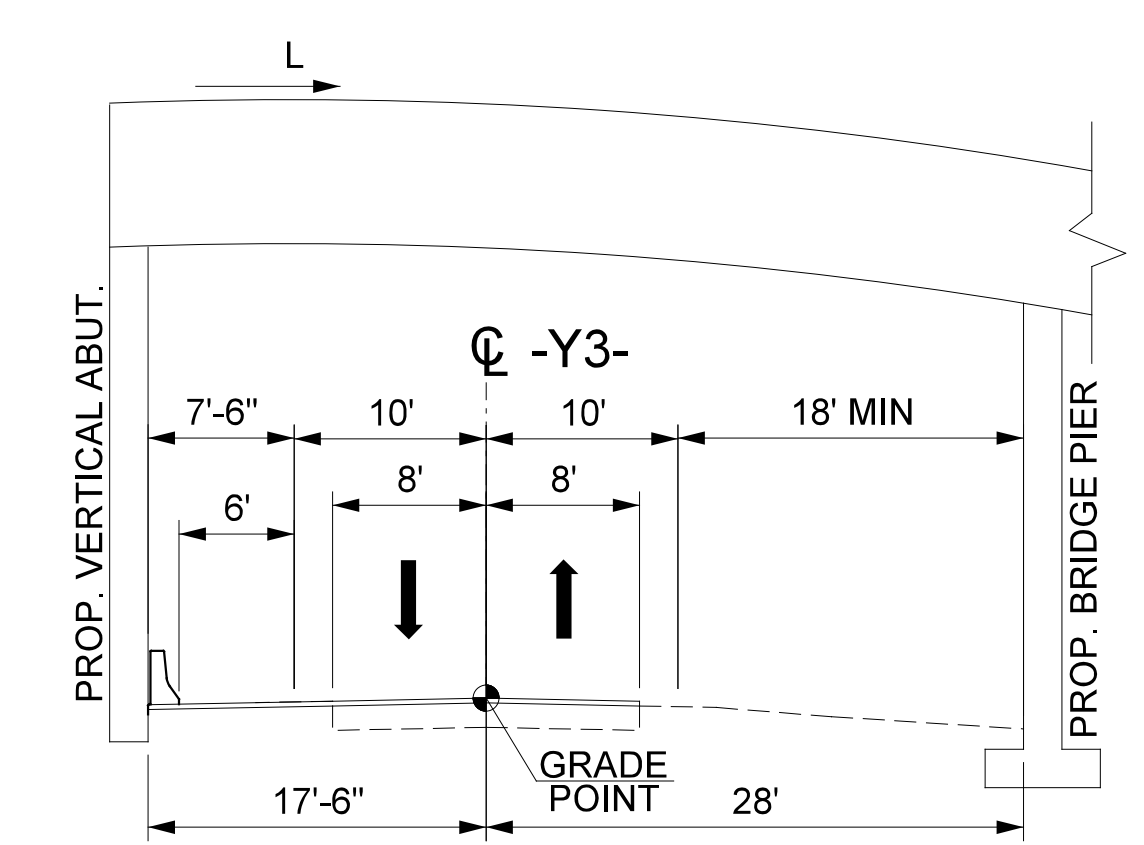


BRIDGE TYPICAL NO. 3
-L- STA. 118 + 05 ± TO 356 + 00.00

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 R0076-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

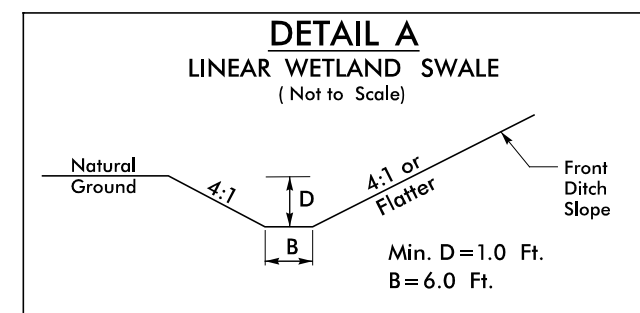
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. **R-2576** SHEET NO. **2D-1**

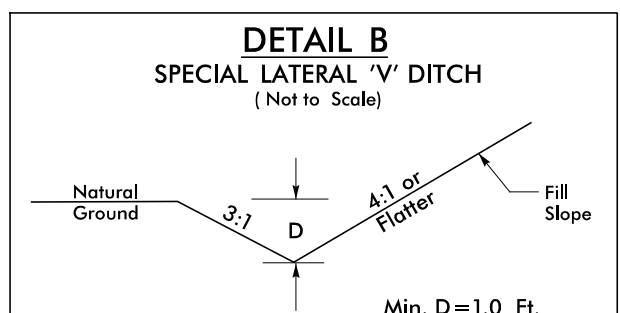
ROADWAY DESIGN ENGINEER PAVEMENT DESIGN ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

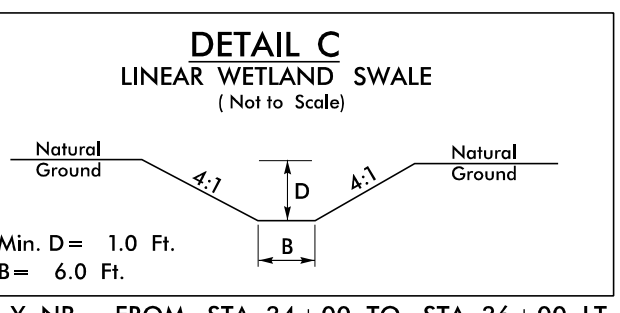
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



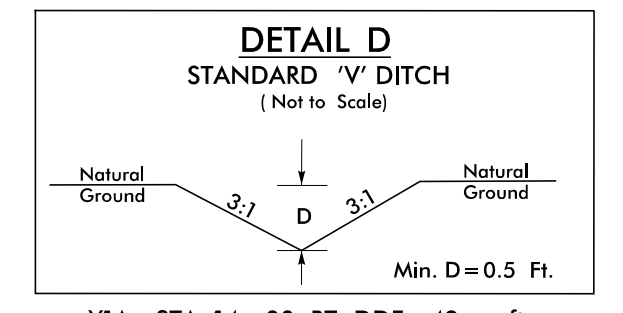
- Y2A- FROM STA. 12+00 TO STA. 16+00 LT
- Y2A- FROM STA. 12+00 TO STA. 17+00 RT
- Y2A- FROM STA. 24+00 TO STA. 25+00 LT
- Y- FROM STA. 22+85 TO STA. 32+50 RT
- Y- FROM STA. 36+00 TO STA. 41+50 RT
- RPD- FROM STA. 12+47 TO STA. 13+75 LT
- RPBD- FROM STA. 10+00 TO STA. 12+00 LT
- RPBD- FROM STA. 11+50 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



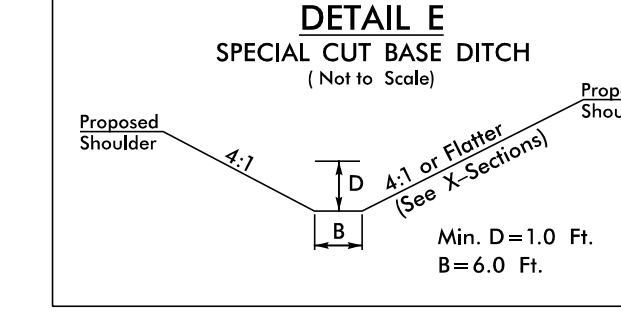
- Y2A- FROM STA. 17+00 TO STA. 17+50 LT
- Y2A- FROM STA. 25+00 TO STA. 27+00 LT
- Y- FROM STA. 33+00 TO STA. 36+00 RT
- Y- FROM STA. 41+50 TO STA. 43+00 RT
- Y2B- FROM STA. 9+58 RT TO STA. 11+34 LT
- Y NB- FROM STA. 20+00 TO STA. 24+50 RT
- Y NB- FROM STA. 35+00 TO STA. 39+00 RT
- RPBD- FROM STA. 10+00 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



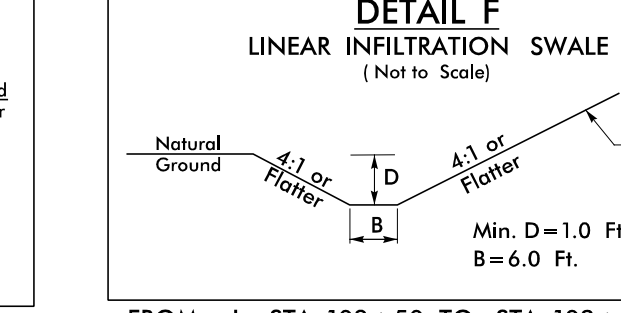
- Y NB- FROM STA. 34+00 TO STA. 36+00 LT
- Y NB- FROM STA. 38+50 TO STA. 41+50 LT



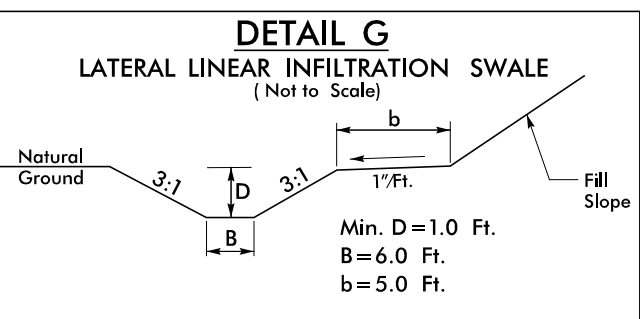
- Y1A- STA. 14+00 RT; DDE=42 cu.ft.
- Y1A- STA. 16+58 LT; DDE=185 cu.ft.
- Y1A- STA. 16+66 RT; DDE=60 cu.ft.
- Y1A- STA. 19+00 RT; DDE=94 cu.ft.



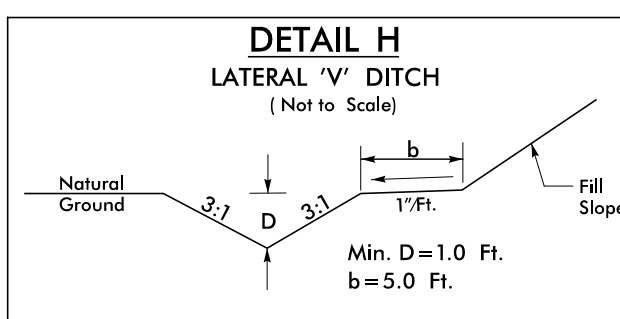
- Y- FROM STA. 68+80 TO STA. 69+50 RT



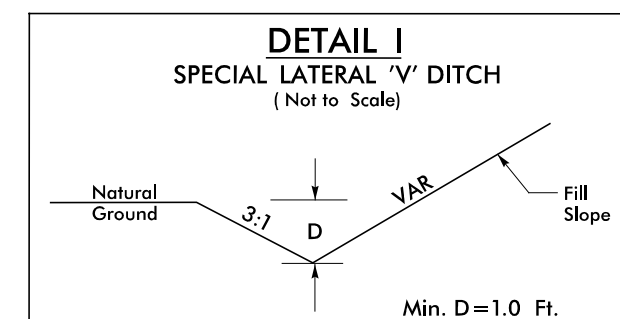
- FROM -L- STA. 103+50 TO STA. 109+00 LT
- FROM -L- STA. 103+50 TO STA. 109+50 RT



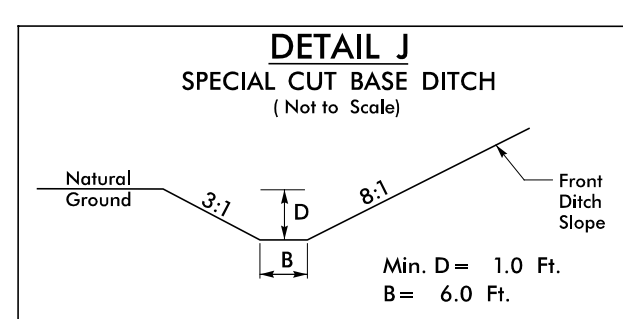
- FROM -L- STA. 109+00 TO STA. 110+50 LT
- FROM -L- STA. 109+50 TO STA. 110+50 RT



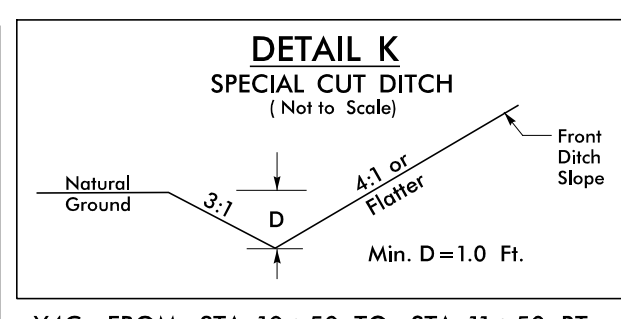
- FROM -L- STA. 112+00 TO STA. 116+00 LT



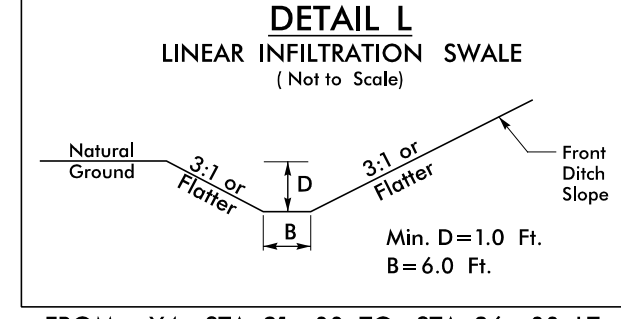
- Y- FROM STA. 70+50 TO STA. 72+50 RT



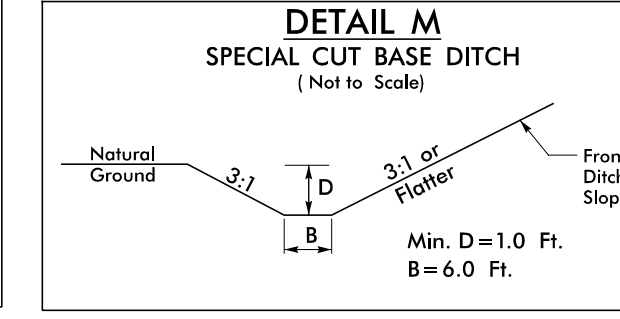
- Y- FROM STA. 72+50 TO STA. 84+50 RT



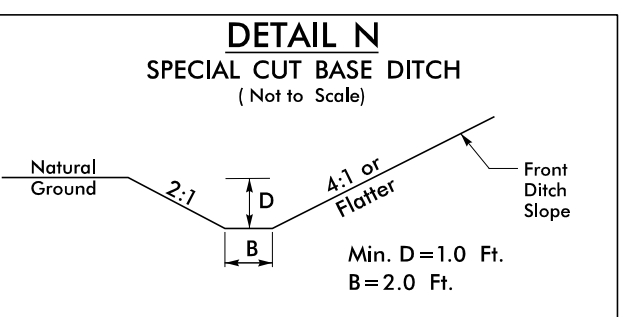
- Y4C- FROM STA. 10+50 TO STA. 11+50 RT
- Y4C- FROM STA. 10+50 TO STA. 11+50 LT
- Y2- FROM STA. 15+00 TO STA. 16+00 RT
- Y2B- FROM STA. 10+75 LT TO STA. 11+50 RT
- Y7- FROM STA. 51+30 TO STA. 52+30 LT
- Y7- FROM STA. 58+27 TO STA. 59+50 LT



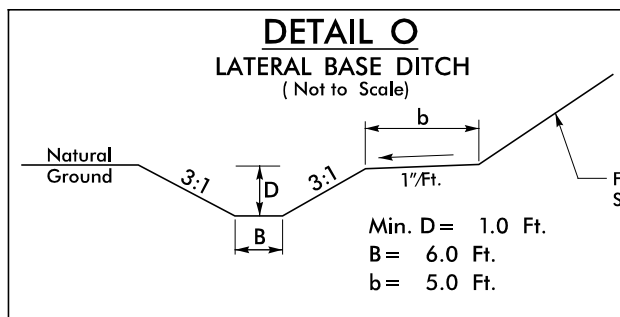
- FROM -Y4- STA. 21+00 TO STA. 26+00 LT
- FROM -Y4- STA. 20+50 TO STA. 22+50 RT
- Y5- FROM STA. 10+28 TO STA. 19+00 RT
- Y5R- FROM STA. 11+60 TO STA. 13+10 RT



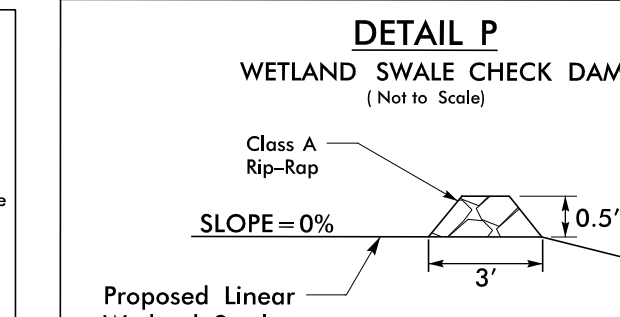
- FROM -Y4- STA. 24+70 TO STA. 25+50 RT
- FROM -Y4- STA. 30+50 TO STA. 32+50 RT
- FROM -Y4- STA. 37+00 TO STA. 37+50 RT
- FROM -Y4- STA. 39+50 TO STA. 42+50 RT



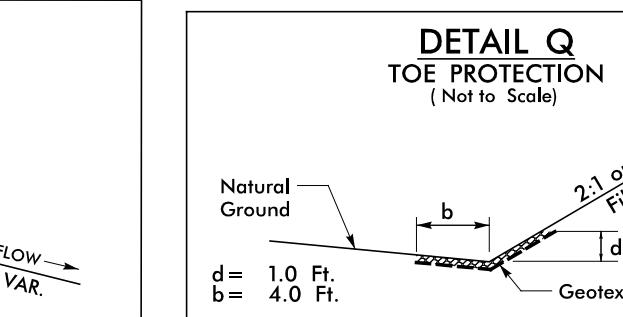
- Y- FROM STA. 32+50 TO STA. 33+00 RT



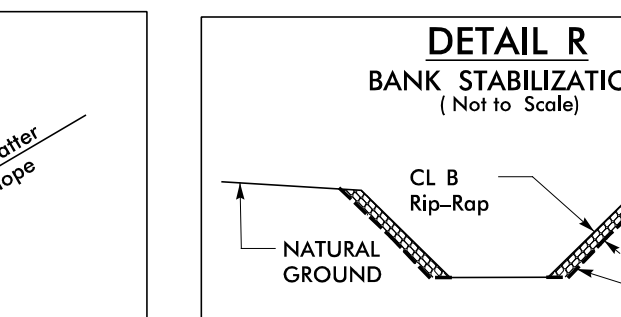
- FROM -L- STA. 113+00 TO STA. 114+50 RT



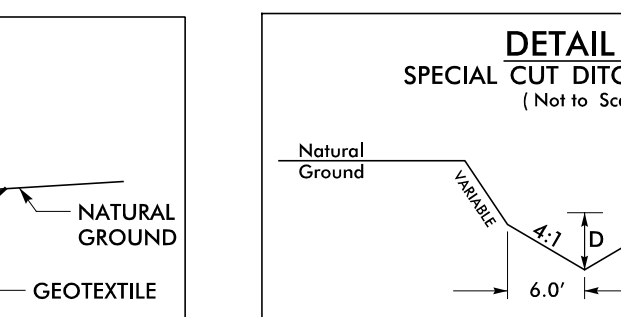
- Y2A- STA. 12+50 LT
- Y2A- STA. 13+00 RT
- Y2A- STA. 15+00 LT
- Y2A- STA. 15+00 RT
- Y2A- STA. 16+00 LT
- Y2A- STA. 16+50 RT
- Y2- STA. 18+50 LT
- Y2- STA. 18+50 RT
- Y2- STA. 22+00 LT
- Y2- STA. 22+50 RT
- Y2- STA. 23+00 LT
- Y2- STA. 24+50 RT
- Y2- STA. 25+50 LT
- Y2- STA. 25+50 RT
- Y- STA. 23+40 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



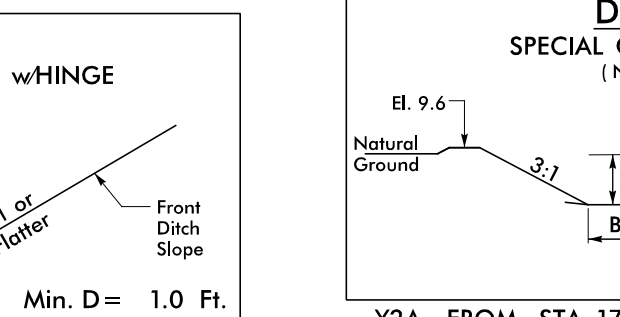
- Y- FROM STA. 21+77 TO STA. 23+70 LT
- Y- FROM STA. 40+83 TO STA. 42+54 LT
- Y- FROM STA. 84+63 TO STA. 90+06 RT
- Y- FROM STA. 91+24 TO STA. 99+89 RT
- Y- FROM STA. 94+20 TO STA. 98+11 LT
- Y1A- FROM STA. 24+37 TO STA. 24+57 LT
- Y1A- FROM STA. 24+59 TO STA. 24+92 RT



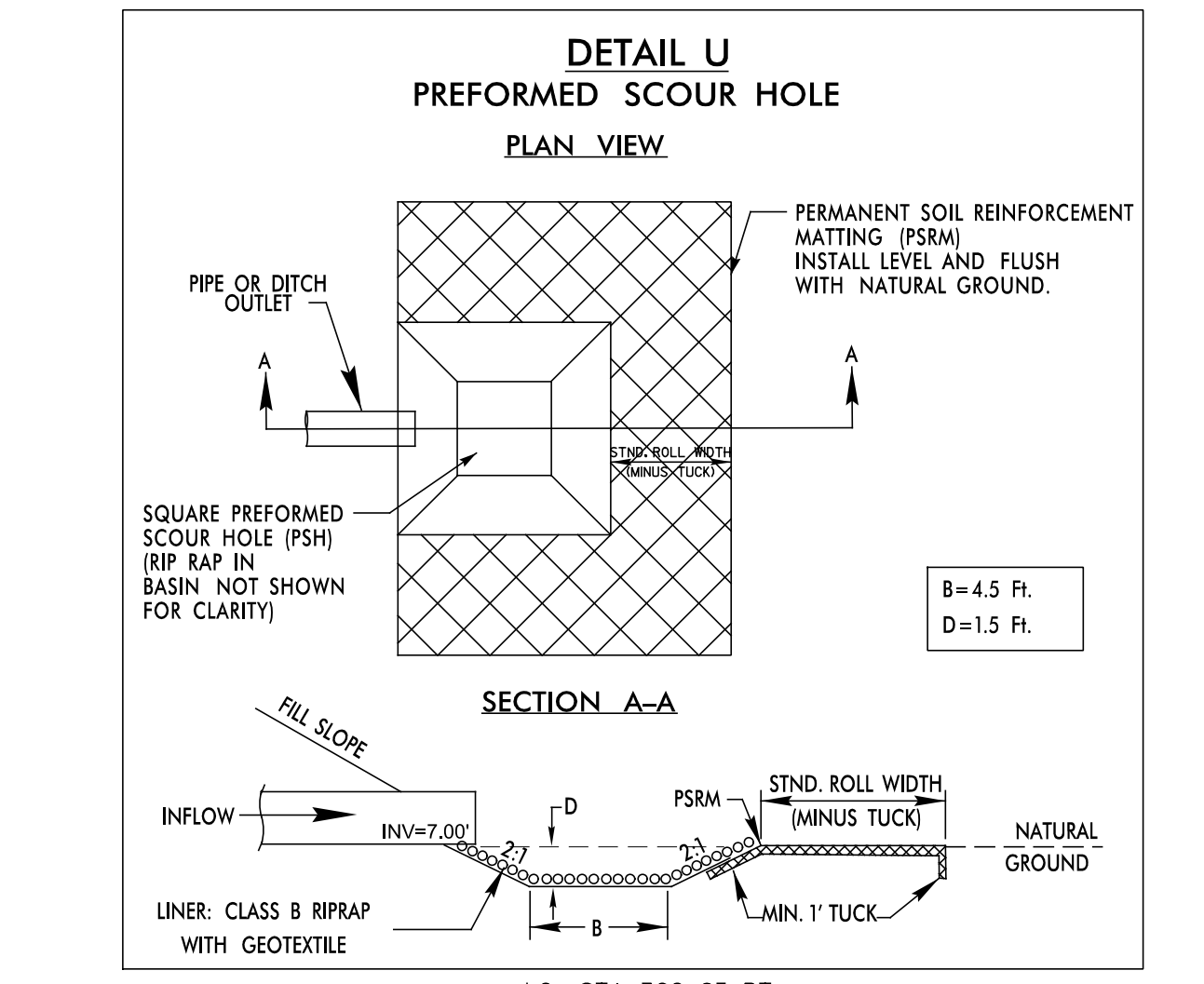
- Y SB- STA. 22+75 LT



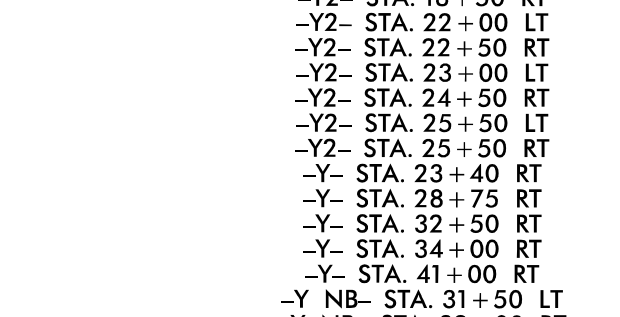
- Y- FROM STA. 18+00 TO STA. 19+00 RT
- Y- FROM STA. 20+00 TO STA. 22+85 RT



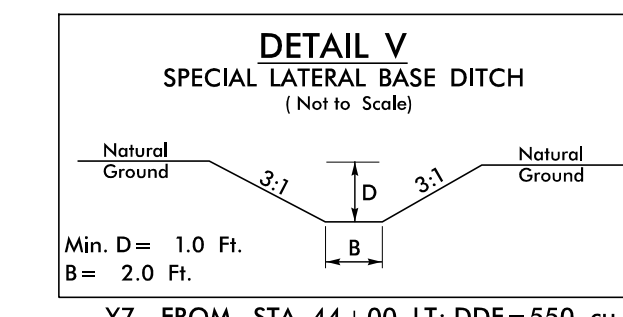
- Y2A- FROM STA. 17+00 TO STA. 18+50 RT



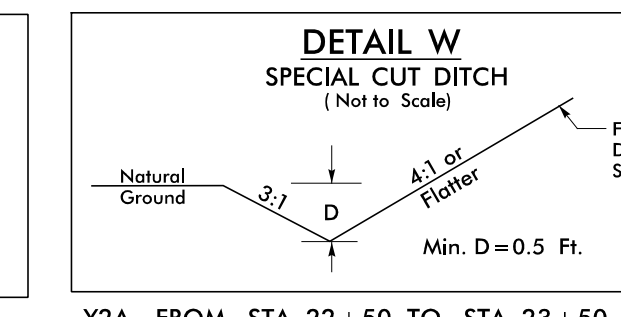
- L2- STA. 366+85 RT



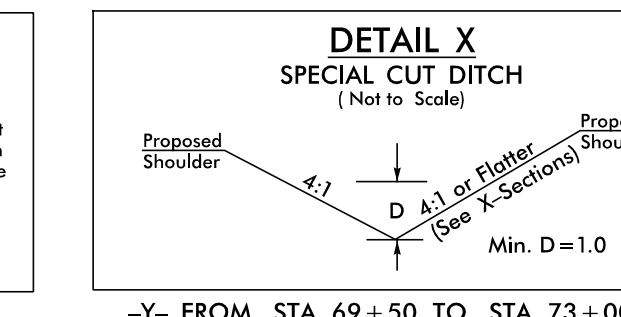
- Y7- FROM STA. 44+00 LT; DDE=550 cu.ft.



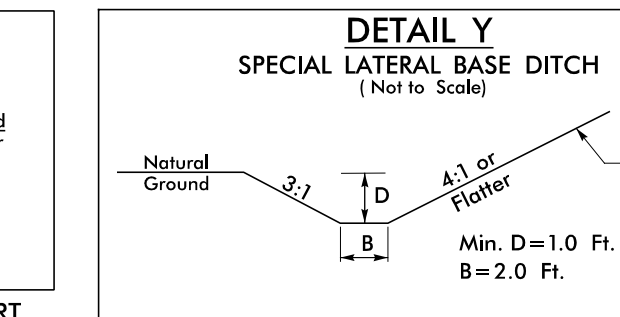
- Y2A- FROM STA. 22+50 TO STA. 23+50 LT



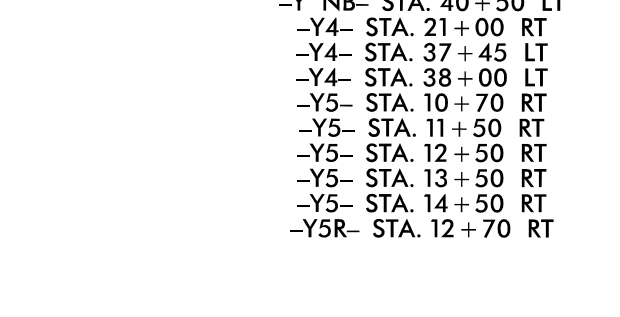
- Y- FROM STA. 69+50 TO STA. 73+00 RT



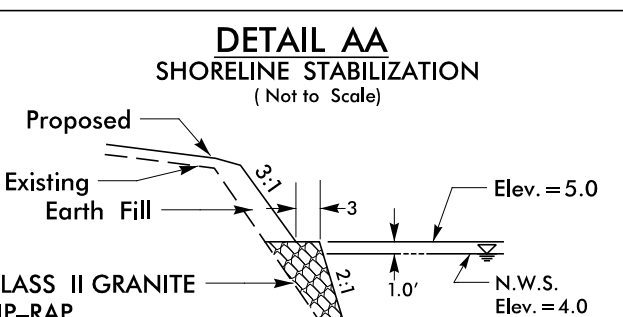
- Y2- FROM STA. 26+00 TO STA. 31+75 RT
- Y2A- FROM STA. 16+00 TO STA. 17+00 LT



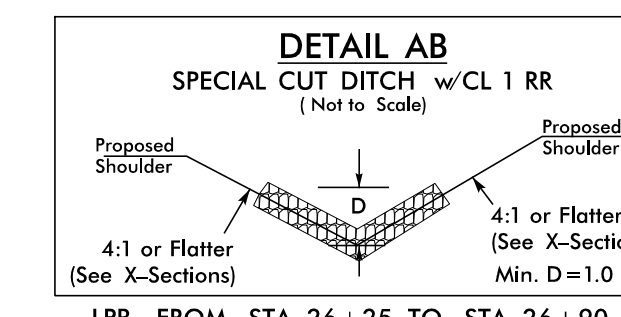
- Y NB- FROM STA. 42+50 TO STA. 46+14 LT



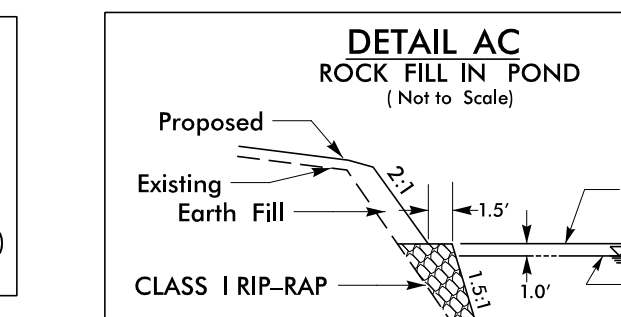
- Y2A- FROM STA. 30+75 TO STA. 31+75 LT



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



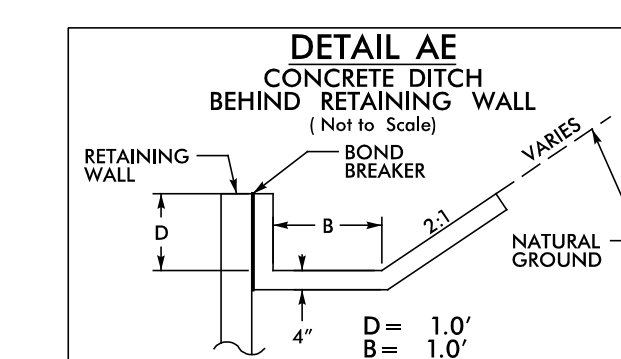
- FROM -L2- STA. 368+46 TO STA. 368+84 RT
- FROM -Y4- STA. 41+52 TO STA. 42+77 LT



- L STA. 19+65 LT



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



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

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

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

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 License No. F-0377
 Bus: 919 851 8077
 Fax: 919 851 8107

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
SUMMARY #1					
-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	
TOTAL SUMMARY #1	3,314	3,612	430,931	427,949	3,944
SUMMARY #2					
-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	
TOTAL SUMMARY #2	2,855	--	369,093	366,238	--
SUMMARY #3					
-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	--
TOTAL SUMMARY #3	16,860	--	69,116	53,031	775
SUMMARY #4					
-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	--
TOTAL SUMMARY #4	8,239	--	24,218	15,979	--
SUMMARY #5					
-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	--
TOTAL SUMMARY #5	3,150	2,285	78,025	75,454	2,864
SUMMARY #6					
-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	--
TOTAL SUMMARY #6	603	1,342	27,074	26,063	1,474

LOCATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT + %	BORROW	WASTE
SUMMARY #7					
-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
TOTAL SUMMARY #7	16,570	--	5,231	--	11,339
SUMMARY #8					
-Y5- 10+38 TO 19+47	1,933	--	3,916	1,983	
TOTAL SUMMARY #8	1,933	--	3,916	1,983	--
SUMMARY #9					
-Y6- 10+15 TO 13+03	143	--	60	--	83
TOTAL SUMMARY #9	143	--	60	--	83
SUMMARY #10					
-Y7- 42+50 TO 62+22	2,347	--	814	--	1,533
TOTAL SUMMARY #10	2,347	--	814	--	1,533
TOTAL SUMMARIES 1-10	56,134	7,239	1,008,055	966,980	22,297
WASTE IN LIEU OF BORROW	--	--	--	-14,456	-14,456
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT	--	--	--	47,626	--
GRAND TOTAL	56,134	7,239	1,008,055	1,000,149	7,841
SAY	56,140	--	--	1,000,150	7,850

6/21/00

6/17/2024
 RCB/6-FDU--psh03B.dgn
 C. DICKLEY

REVISIONS	

LOCHNER
 2840 PLAZA PLACE, SUITE 202
 RALEIGH, NC 27612
 (919) 271-7111

PROJECT REFERENCE NO. **R-2576**
 SHEET NO. **4**

1333 BROWN FARM RD.
 RAMPART, N.C. 27626
 (919) 851-9277
 (919) 851-8077
 FAX: (919) 851-8107

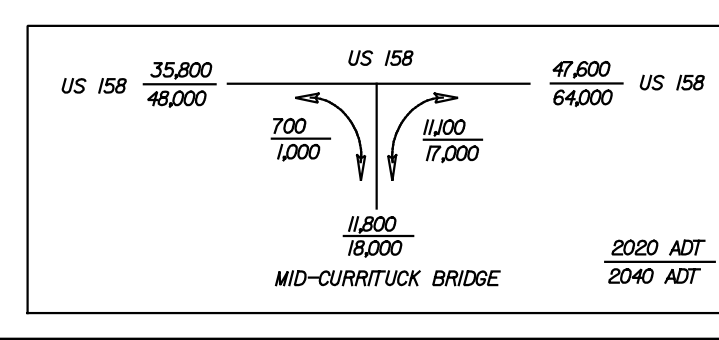
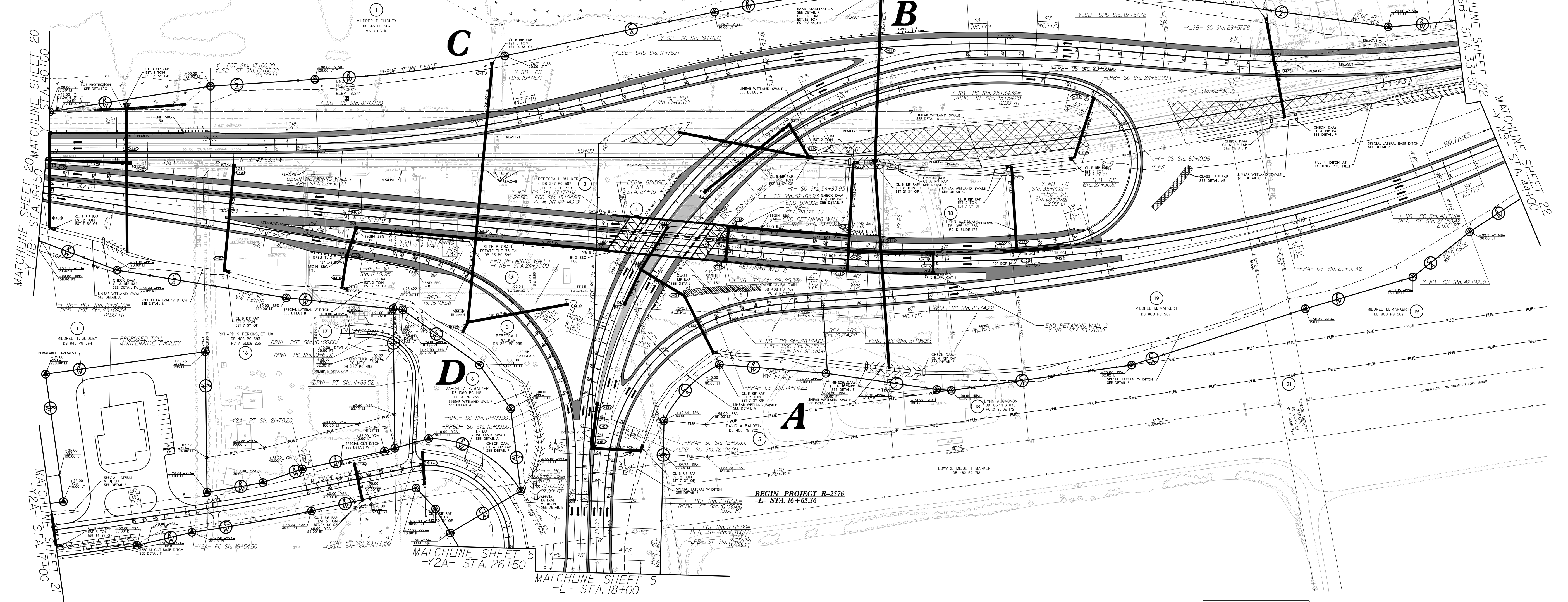
TRANSPORTATION PLANNING/DESIGN / INFRASTRUCTURE DESIGN
 CONSULTING ENGINEER / ARCHITECTURE/INTERIOR DESIGN

INCOMPLETE PLANS
 NO COPY FOR THE FIELD

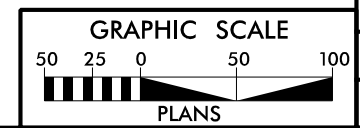
DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED

PAVED SHOULDER

-Y-		-Y-NB-		-Y-SB-	
PI Sta 54+10.60 Ea = 7' 34" 32.3" Ls = 200.00' LT = 146.67' T = 263.44' ST = 73.34' R = 4000.00'	PI 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'	PI Sta 60+83.40 Ea = 1' 34" 32.3" Ls = 200.00' LT = 146.67' T = 263.44' ST = 73.34' R = 4000.00'	PI Sta 31+05.35 Ea = 2' 51" 53.2" Ls = 270.00' LT = 180.00' T = 596.58' ST = 90.00' R = 2700.00'	PI Sta 31+51.49 Ea = 2' 51" 53.2" Ls = 270.00' LT = 180.00' T = 596.58' ST = 90.00' R = 2700.00'	PI Sta 43+82.33 Ea = 2' 51" 53.2" Ls = 270.00' LT = 180.00' T = 596.58' ST = 90.00' R = 2700.00'
PI Sta 11+34.02 Ea = 17' 54" 17.8" Ls = 200.00' LT = 134.02' T = 146.67' ST = 67.29' R = 4000.00'	PI Sta 13+46.76 Δ = 49' 08" 52.9" (RT) Ea = 17' 54" 17.8" Ls = 200.00' LT = 134.02' T = 146.67' ST = 67.29' R = 4000.00'	PI Sta 15+14.51 Ea = 1' 34" 32.3" Ls = 200.00' LT = 146.67' T = 263.44' ST = 73.34' R = 4000.00'	PI Sta 18+07.55 Ea = 1' 29" 56.6" Ls = 200.00' LT = 133.34' T = 146.67' ST = 67.29' R = 4000.00'	PI Sta 22+13.13 Ea = 9' 41" 09.3" (LT) Ls = 299.56' LT = 199.71' T = 226.40' ST = 35.42' R = 4000.00'	PI Sta 26+56.78 Ea = 1' 29" 56.6" Ls = 200.00' LT = 133.34' T = 146.67' ST = 67.29' R = 4000.00'
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- SEE SHEET 20 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 -Y2A- PROFILE
- SEE SHEET 46 FOR -Y2A- PROFILE
- SEE SHEET 46 FOR -DRAW- PROFILE



DESIGNED BY:	CHECKED BY:
DATE:	DATE:

LOCATION: MID-CURRUCK BRIDGE I-41 AT US 158 I-74

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
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Fax: 919 851 8107

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

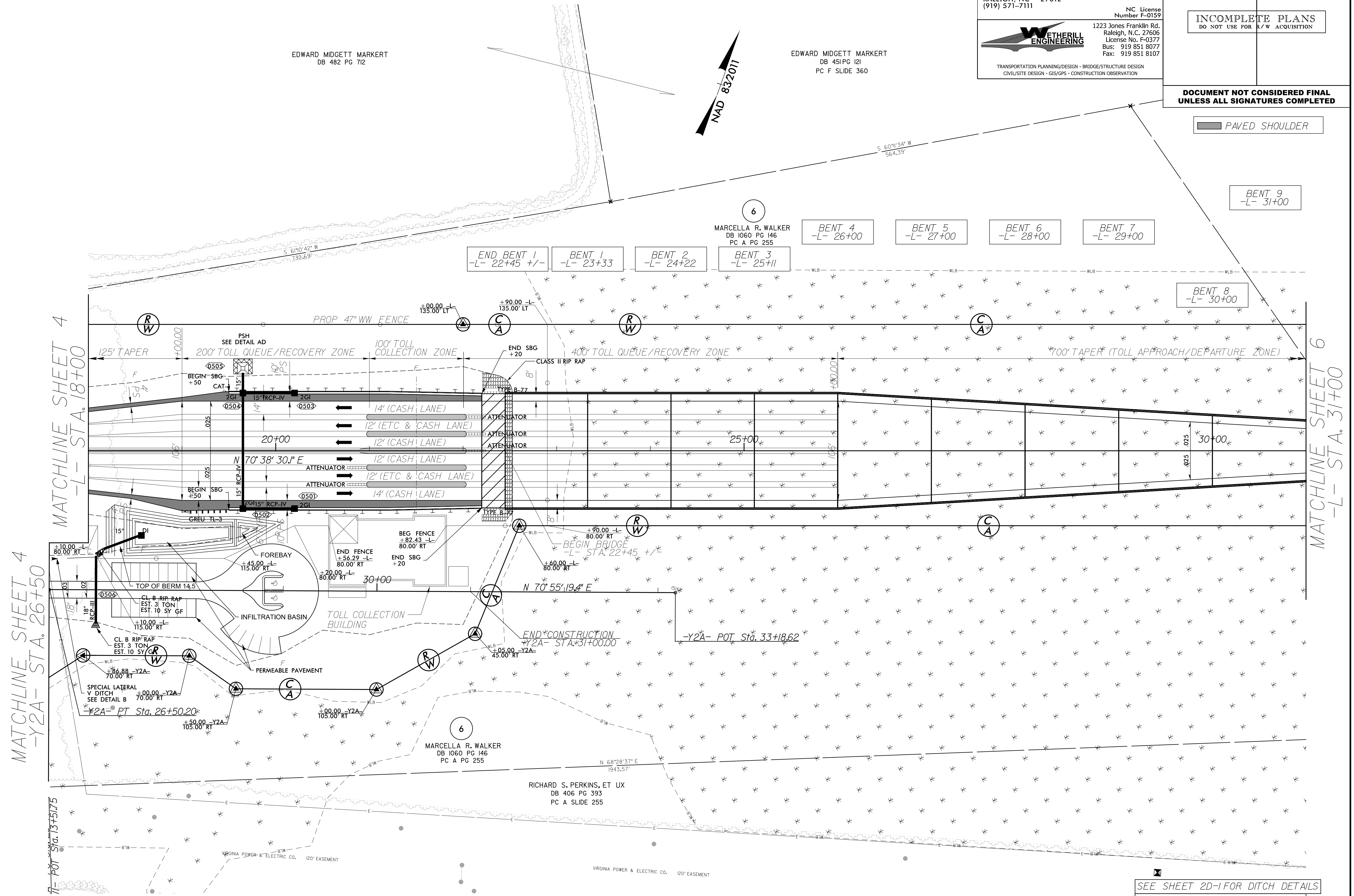
PROJECT REFERENCE NO. **R-2576** SHEET NO. **5**

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

6/17/2024
RSG/6/17/24/psh05.dgn
C. DICKLEY

6/27/99

LOCHNER

H. W. LOCHNER, INC.
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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. SHEET NO.

R-2576

6

ROADWAY DESIGN ENGINEER

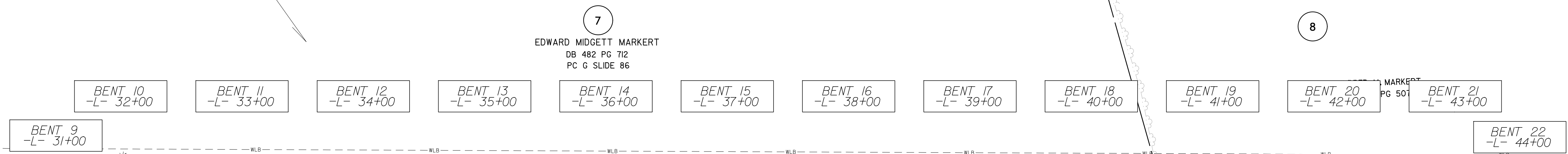
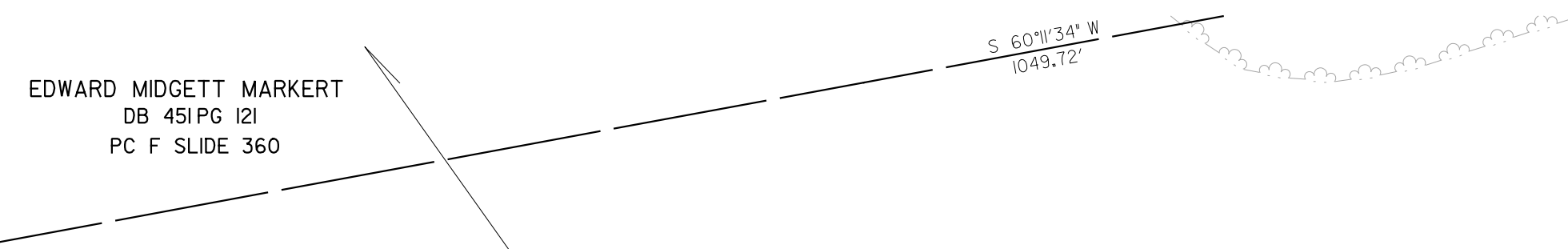
PAVEMENT DESIGN ENGINEER

INCOMPLETE PLANS

DO NOT USE FOR R/W ACQUISITION

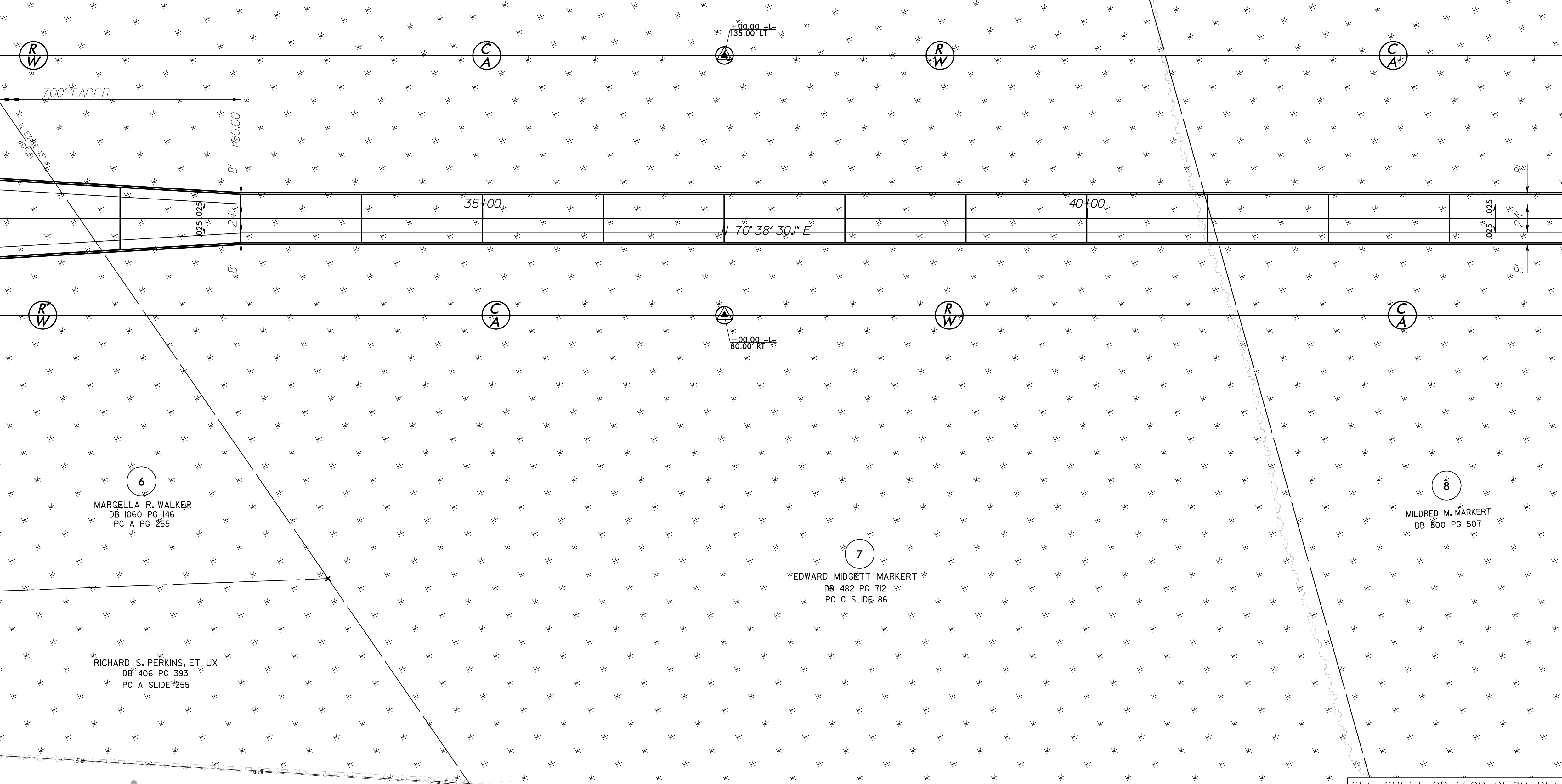
**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

PAVED SHOULDER



MATCHLINE SHEET 5
-L- STA. 31+00

MATCHLINE SHEET 7
-L- STA. 44+00



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

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

EDWARD MIDGETT MARKERT
DB 482 PG 712
PC G SLIDE 86

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

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RALEIGH, NC 27612
(919) 571-7111

NC License
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

7

ROADWAY DESIGN
ENGINEER

PAVEMENT DESIGN
ENGINEER

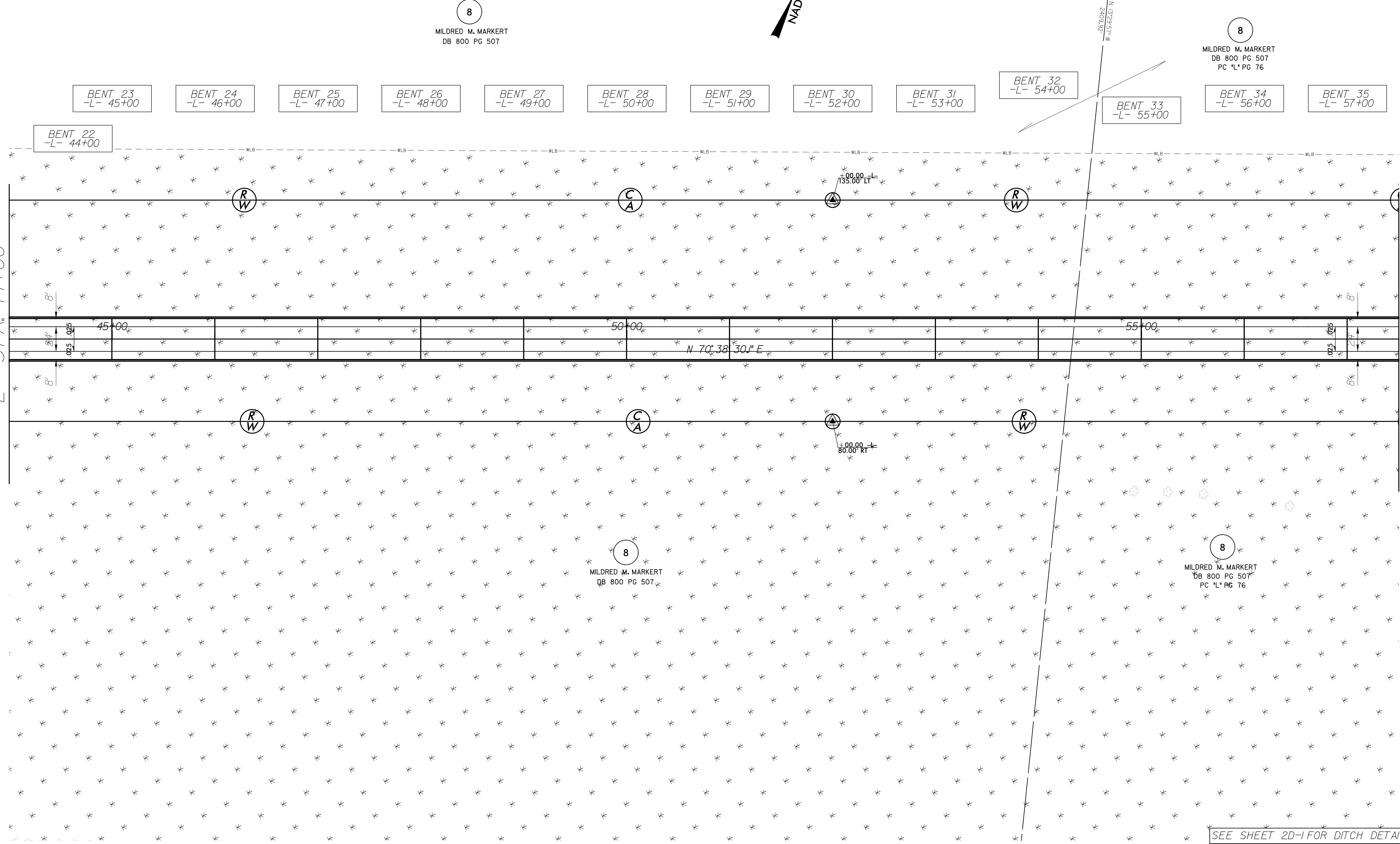
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

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

PAVED SHOULDER

MATCHLINE SHEET 6
-L- STA. 44+00

MATCHLINE SHEET 8
-L- STA. 57+50



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

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

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

NC License
 Number F-0159

WETHERILL
 ENGINEERING

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

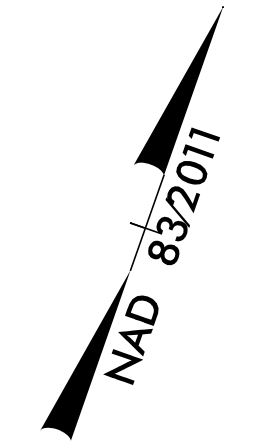
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. R-2576	SHEET NO. 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

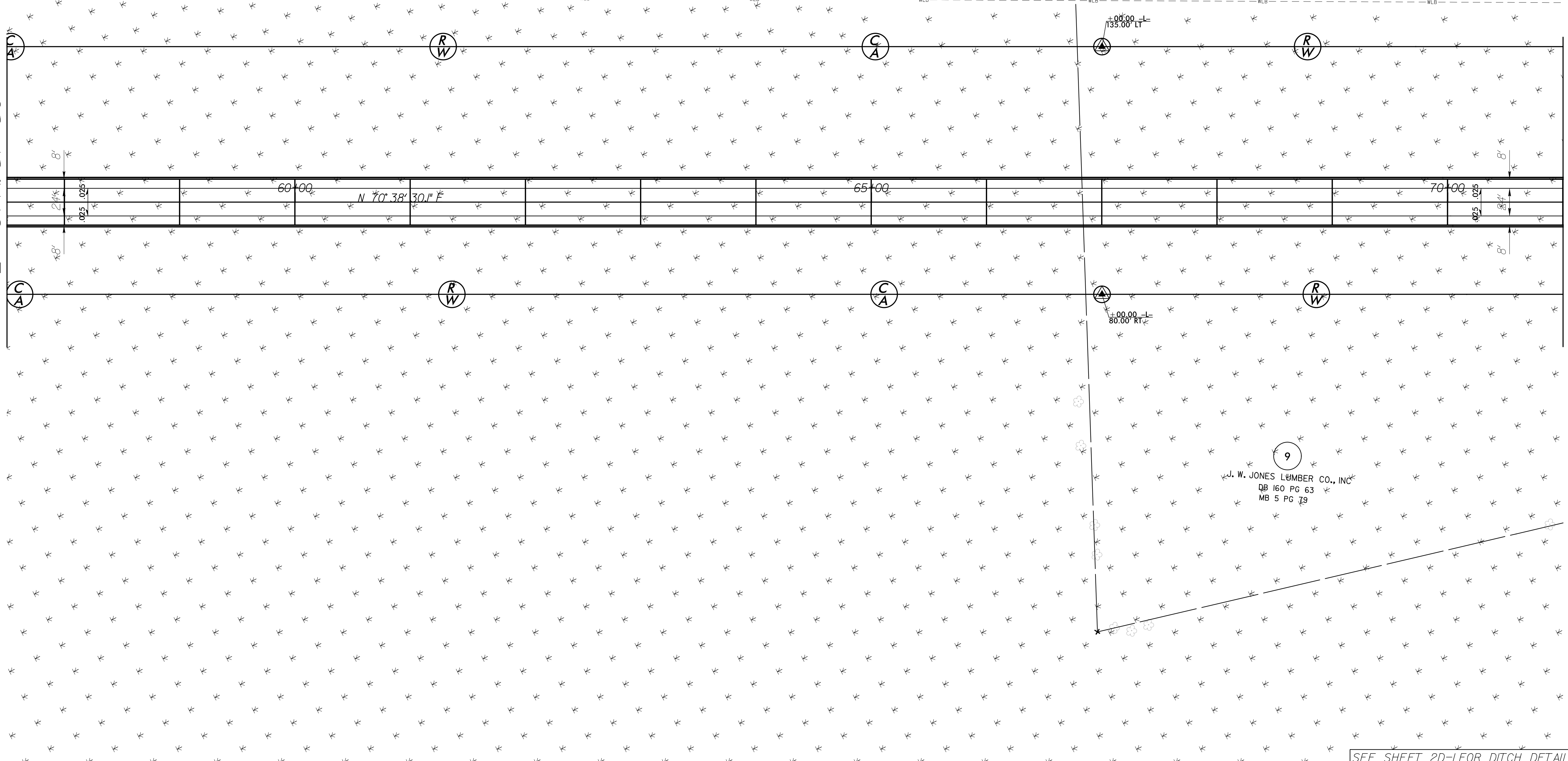
8
MILDRED M. MARKERT
DB 800 PG 507
PC "L" PG 76



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

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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.

R-2576

SHEET NO.

9

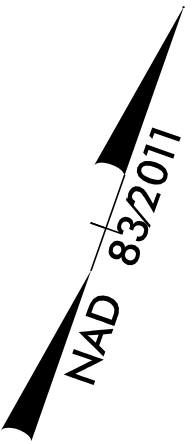
ROADWAY DESIGN
ENGINEER

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
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BENT 60
-L- 82+00

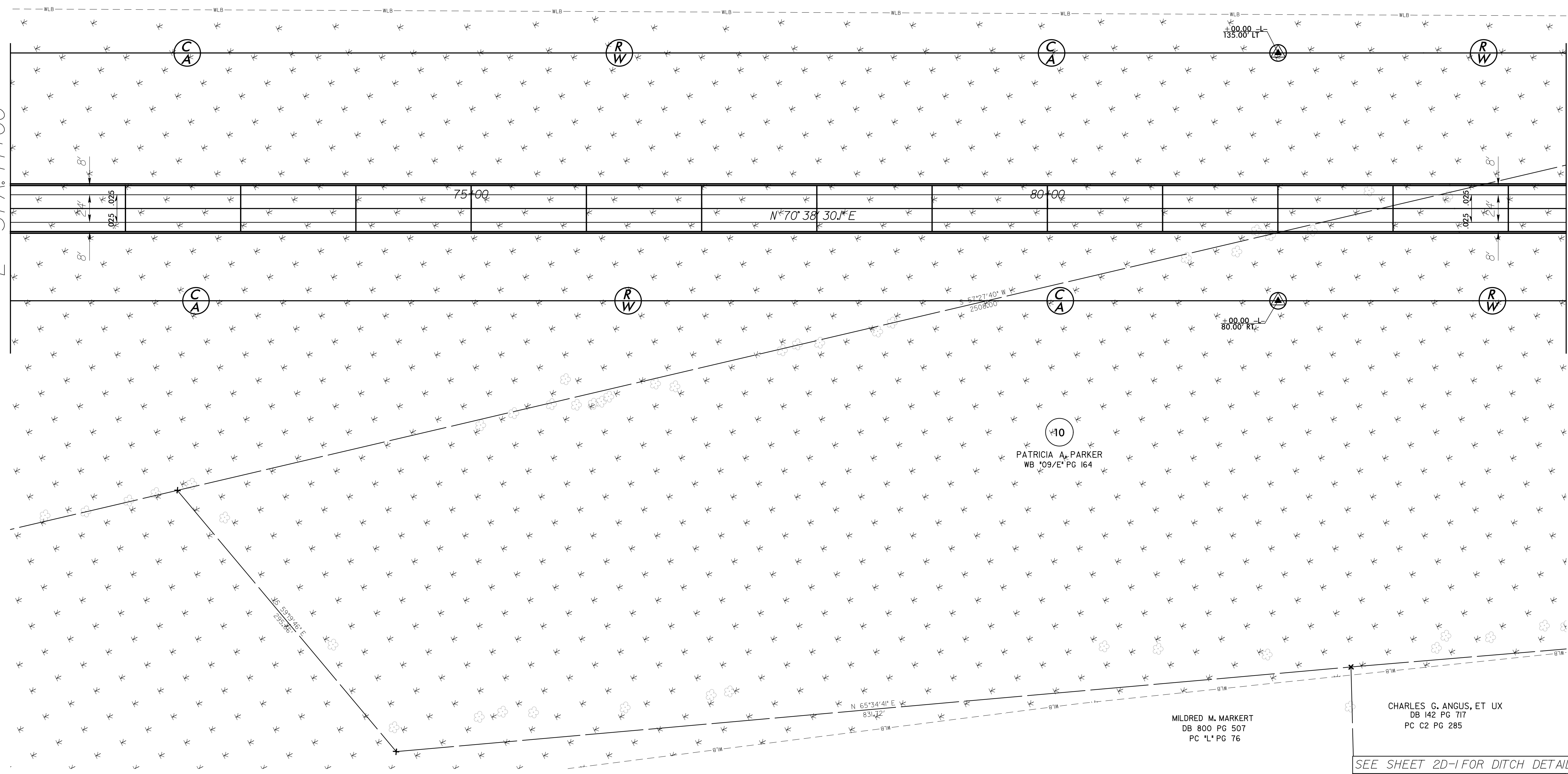
BENT 61
-L- 83+00

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
R6576-FDU-psh09.dgn
C. COCKELEY

6/2/99

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RALEIGH, NC 27612
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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. SHEET NO.

R-2576 10

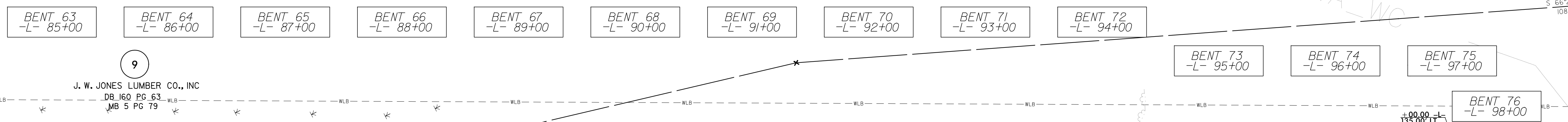
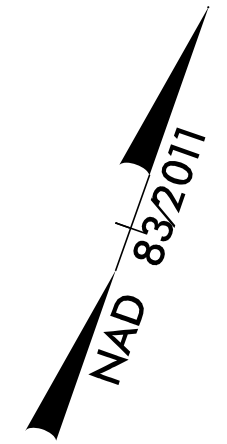
ROADWAY DESIGN
ENGINEER

PAVEMENT DESIGN
ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

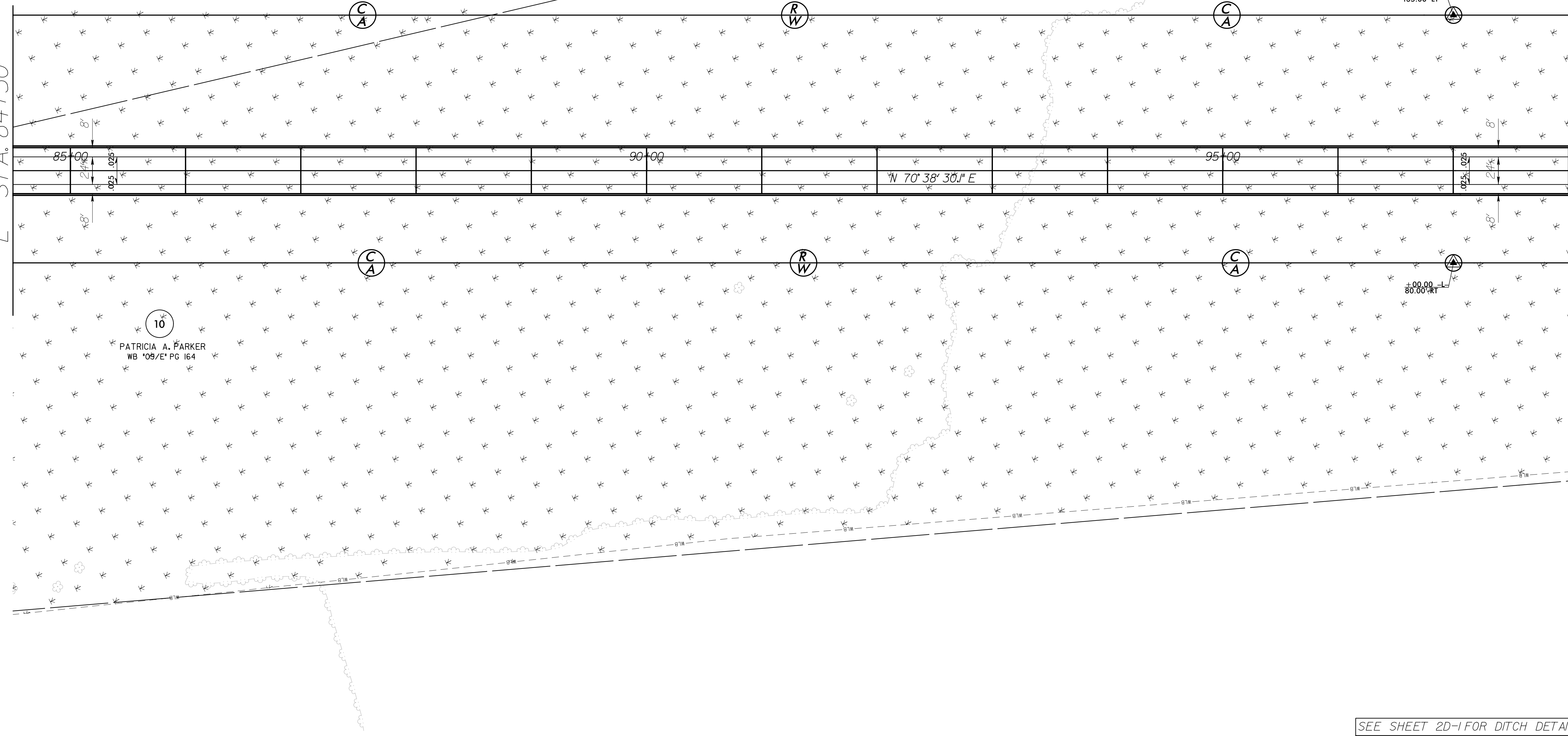
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UNLESS ALL SIGNATURES COMPLETED**

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
CROKLEY

6/2/99

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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. SHEET NO.

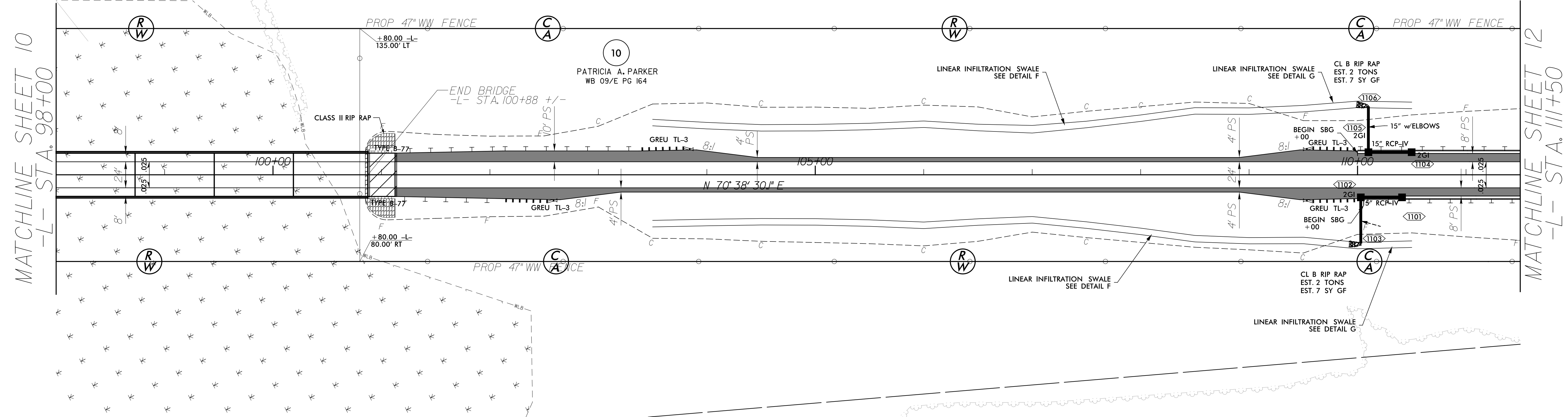
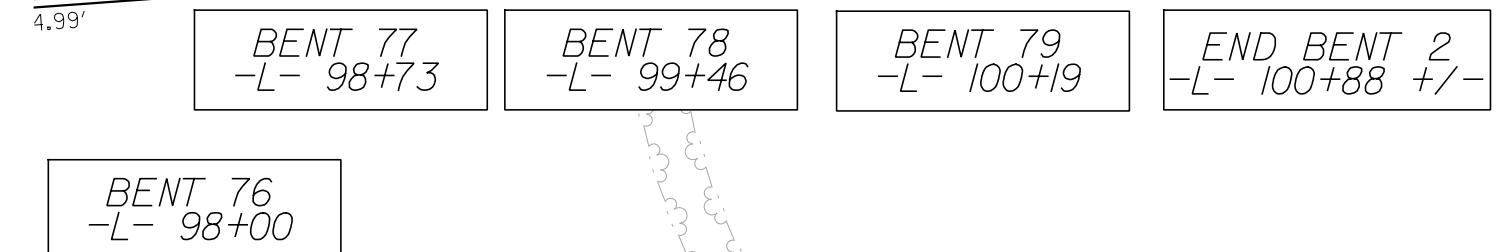
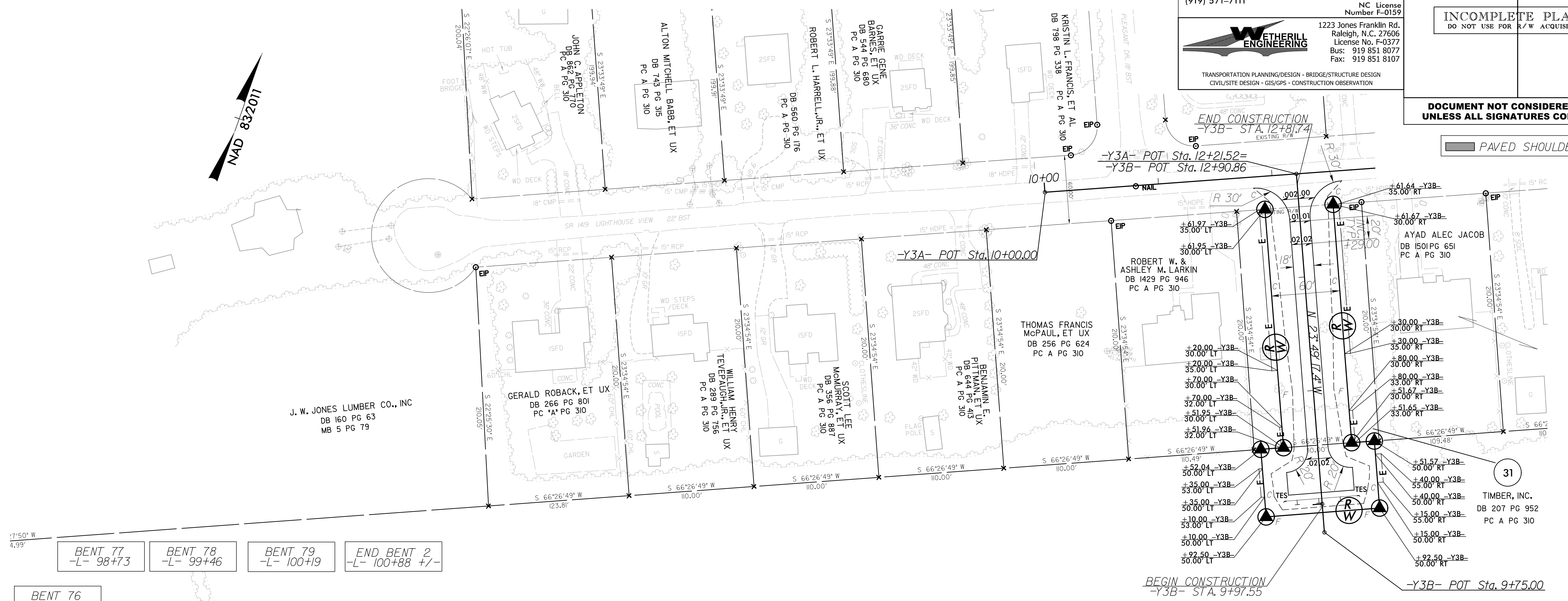
R-2576 II

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

6/2/24 6:17/2024 R2576-6-PL-PSH12.dgn C. COCKELEY

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H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612
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NC License Number F-0159

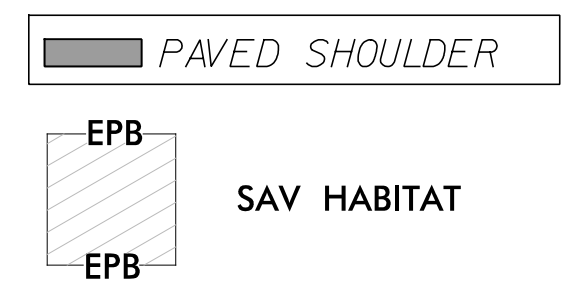
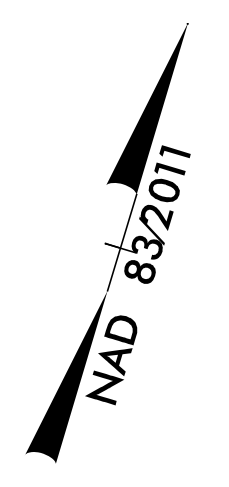
WETHERILL ENGINEERING
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107

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

PROJECT REFERENCE NO. <i>R-2576</i>	SHEET NO. <i>12</i>
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	

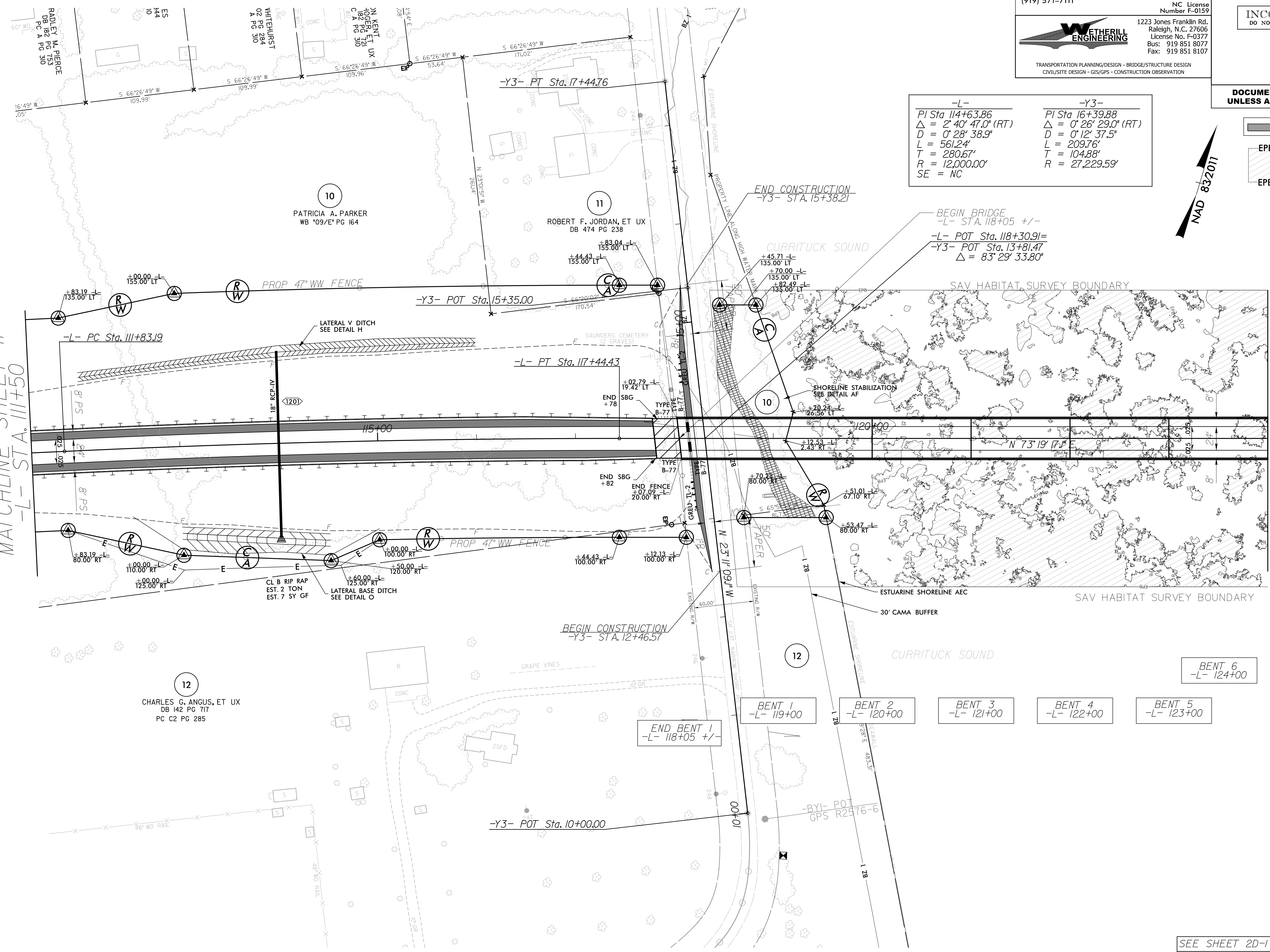
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

-L-	-Y3-
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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

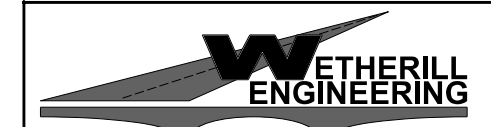
MATCHLINE SHEET 13A
-L- STA. 124+00



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

LOCHNER

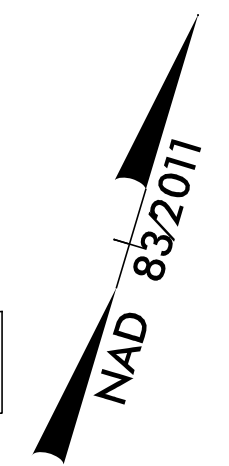
H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612
(919) 571-7111



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

EPB SAV HABITAT

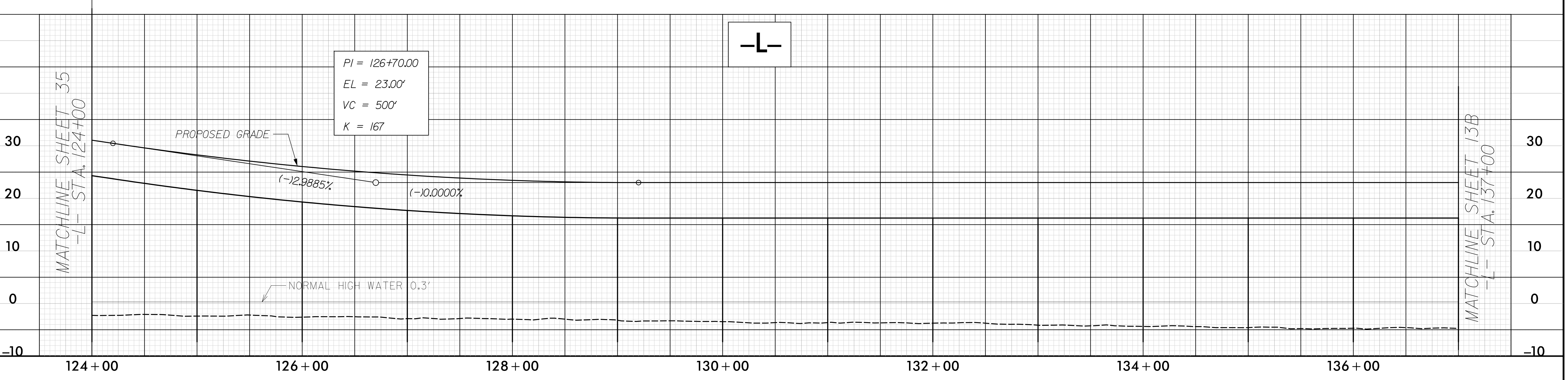
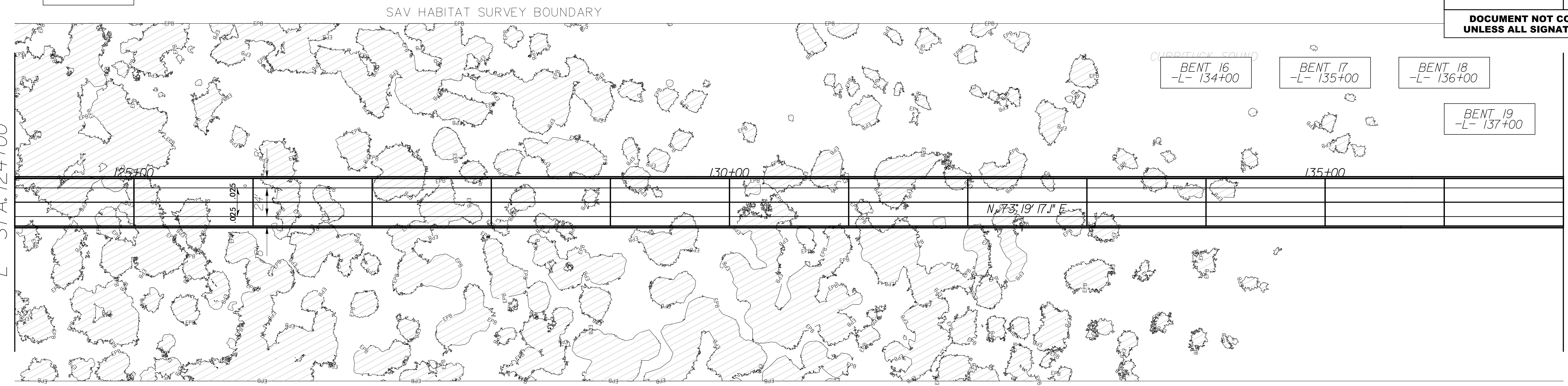


- BENT 7
-L- 125+00
- BENT 8
-L- 126+00
- BENT 9
-L- 127+00
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- BENT 12
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- BENT 13
-L- 131+00
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BENT 6
-L- 124+00

MATCHLINE SHEET 12
-L- STA. 124+00

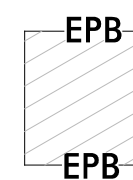
MATCHLINE SHEET 13B
-L- STA. 137+00



6/17/2024
R2576.dwg
SYDNEY

6/17/2024

6/17/2024
R2576
LOCHNER



SAV HABITAT

LOCHNER

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

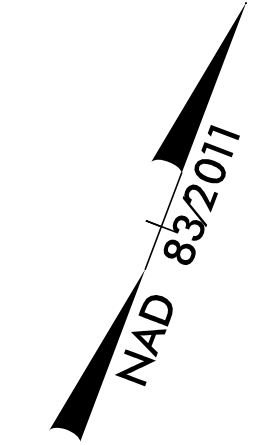
NC License
Number F-0159



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

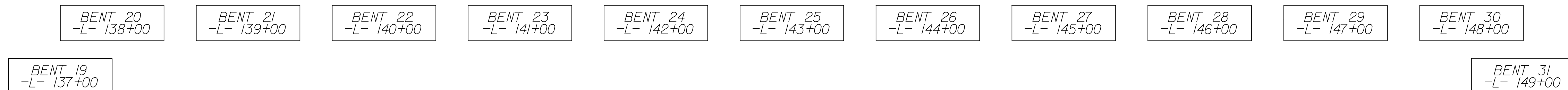
PROJECT REFERENCE NO. R-2576	SHEET NO. 13B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



CURRITUCK SOUND

SAV HABITAT SURVEY BOUNDARY

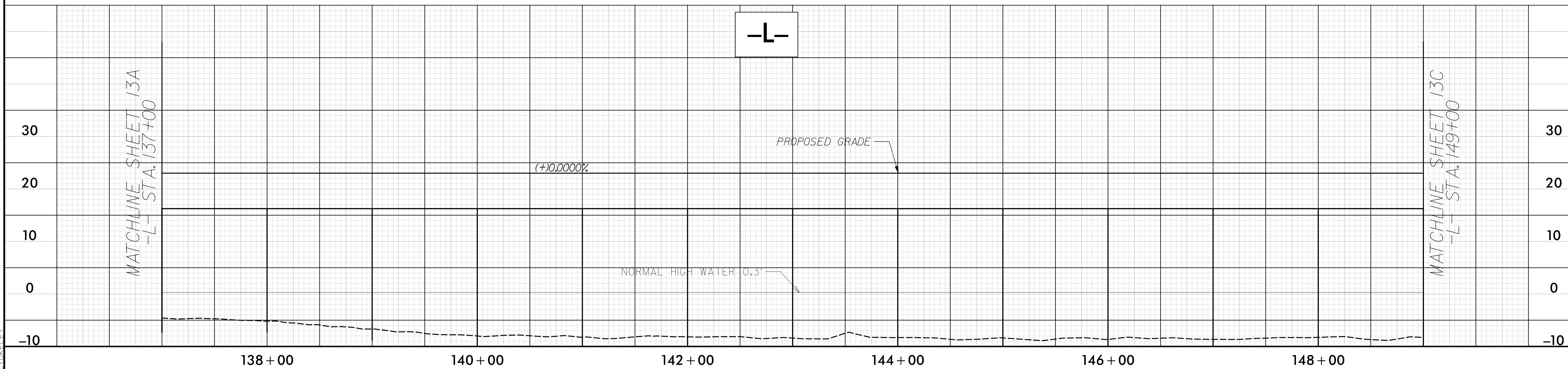
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-L- STA. 137+00



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

CURRITUCK SOUND

SAV HABITAT SURVEY BOUNDARY



8/17/24



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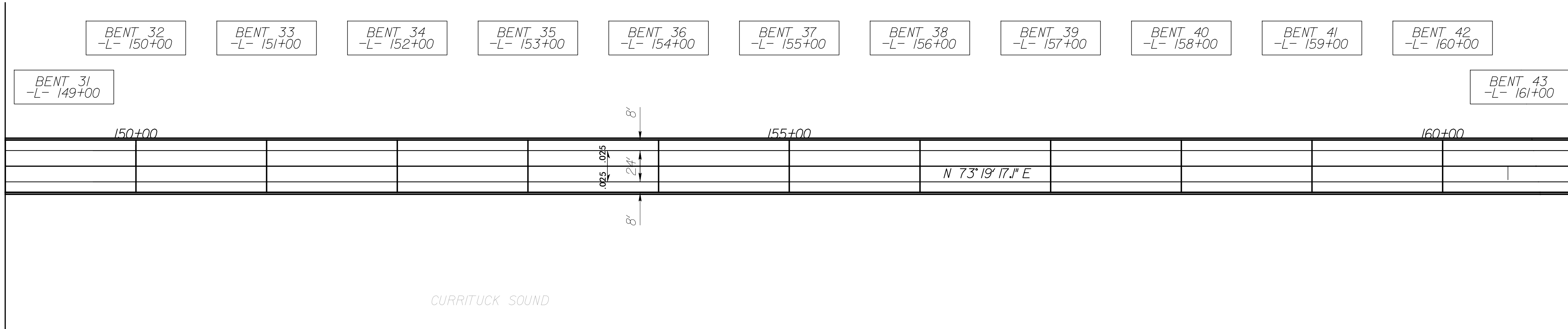
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CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. R-2576	SHEET NO. 13C
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	

CURRITUCK SOUND

SAV HABITAT SURVEY BOUNDARY

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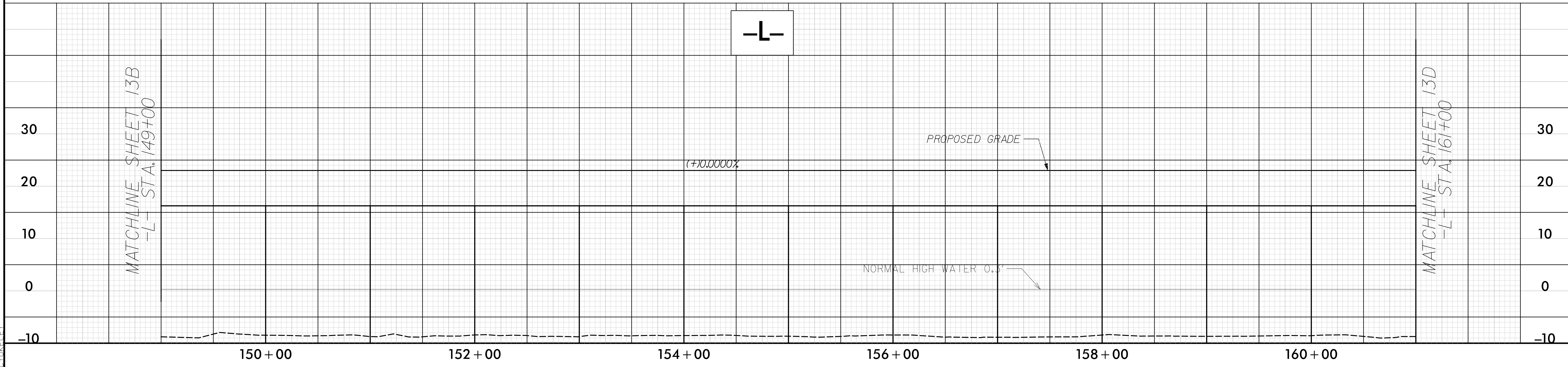


MATCHLINE SHEET 13D
-L- STA. 161+00

CURRITUCK SOUND

SAV HABITAT SURVEY BOUNDARY

8/17/2024
R2576-CP-esh13C.dgn
SYDNEY



6/17/2024

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

EPB SAV HABITAT EPB

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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

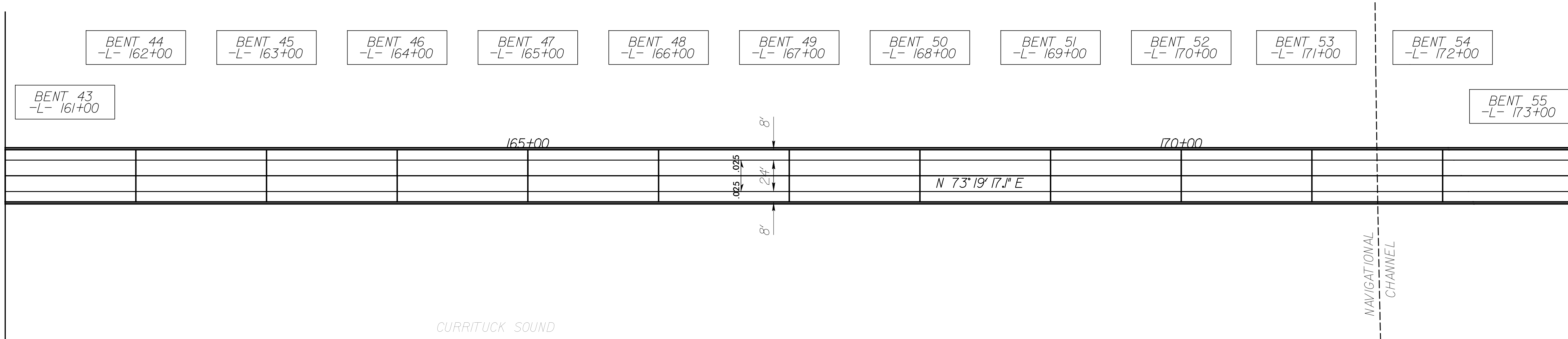
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CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. R-2576	SHEET NO. 13D
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	

CURRITUCK SOUND

SAV HABITAT SURVEY BOUNDARY

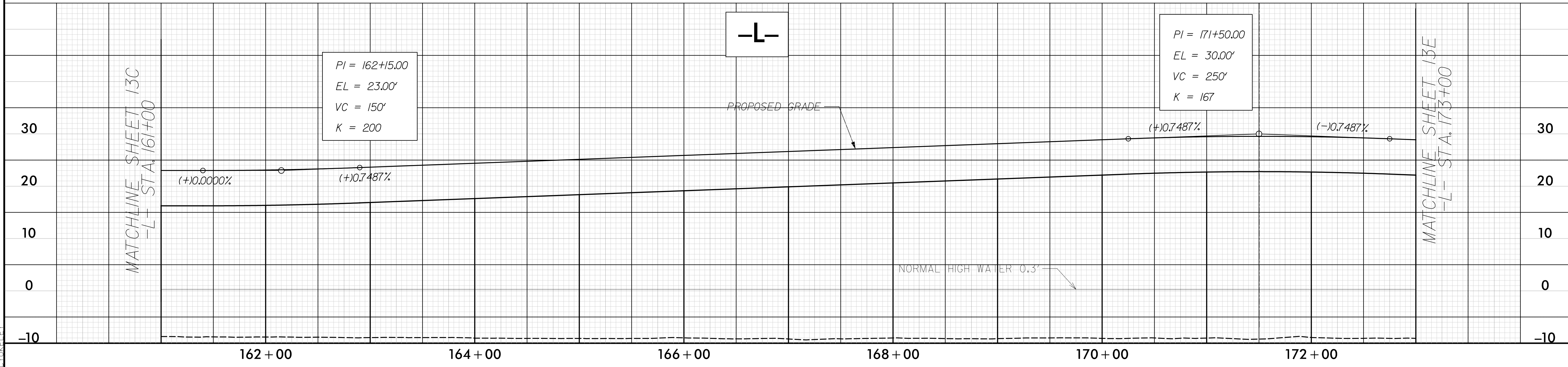
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-L- STA. 161+00



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

CURRITUCK SOUND

SAV HABITAT SURVEY BOUNDARY



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

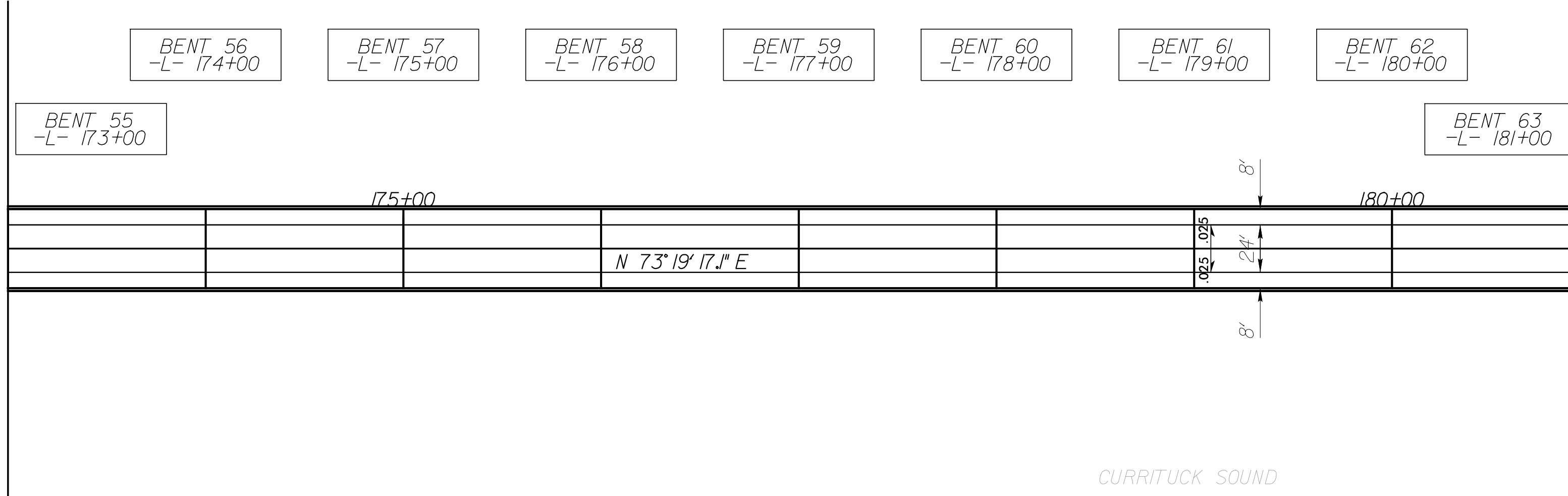
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CURRITUCK SOUND

SAV HABITAT SURVEY BOUNDARY

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



MATCHLINE SHEET 14A
-L- STA. 181+00

CURRITUCK SOUND

SAV HABITAT SURVEY BOUNDARY

LOCHNER

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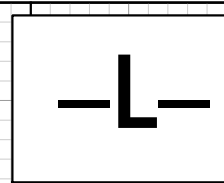
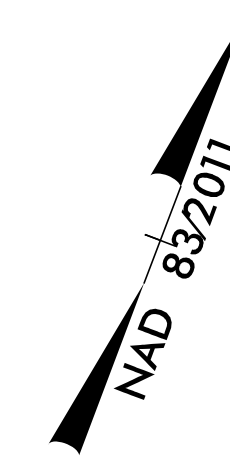
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Number F-0159



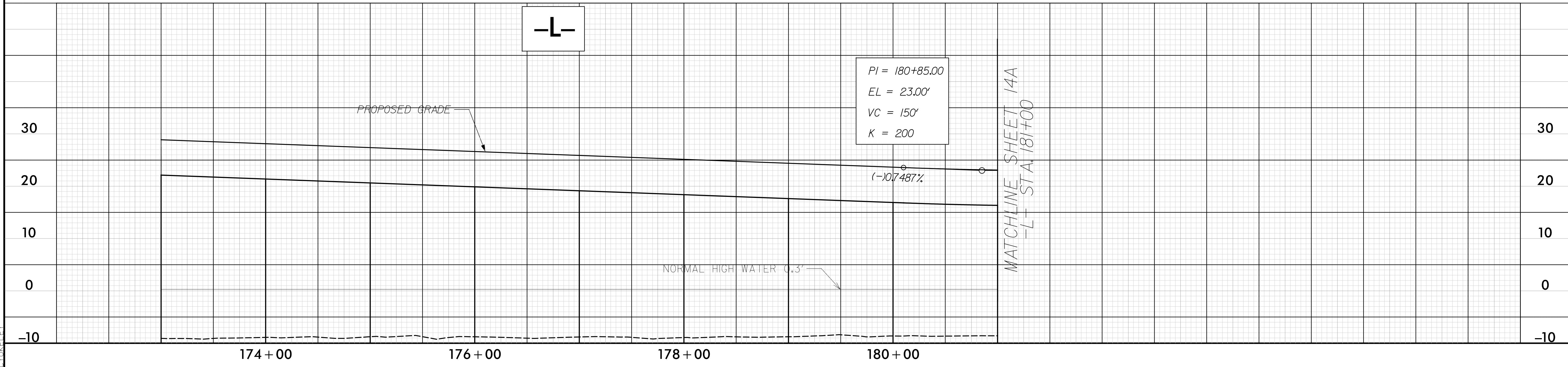
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107

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

PROJECT REFERENCE NO. R-2576	SHEET NO. 13E
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	



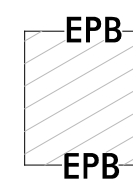
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 $K = 200$



6/17/2024
R2576-13E.dgn
SYDNEY

6/17/2024

6/17/2024
R2576
C:\psh14A.dgn
SYDNEY



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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
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PROJECT REFERENCE NO. SHEET NO.
R-2576 14A

R/W SHEET NO.

ROADWAY DESIGN ENGINEER HYDRAULICS ENGINEER

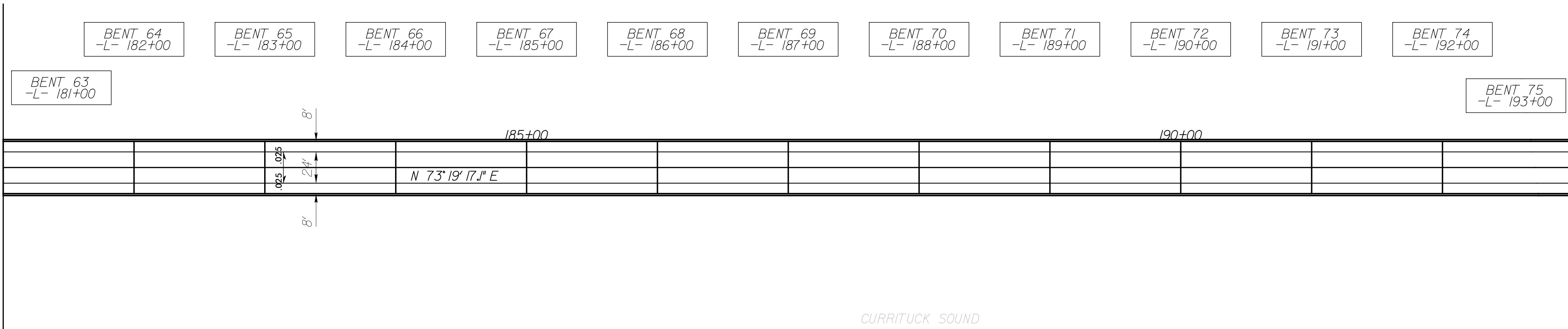
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

CURRITUCK SOUND

SAV HABITAT SURVEY BOUNDARY

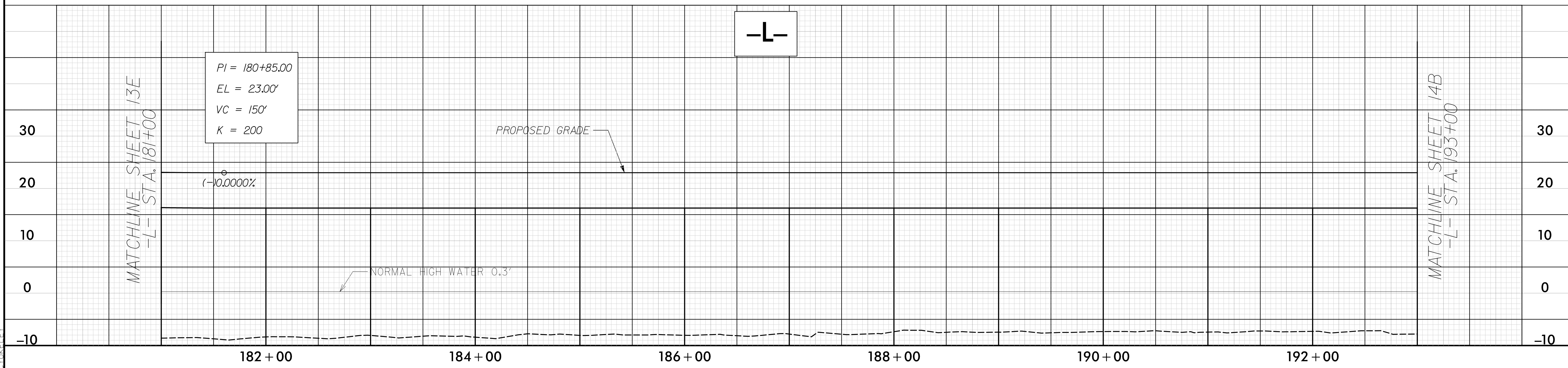
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-L- STA. 181+00



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

CURRITUCK SOUND

SAV HABITAT SURVEY BOUNDARY

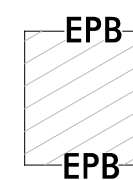


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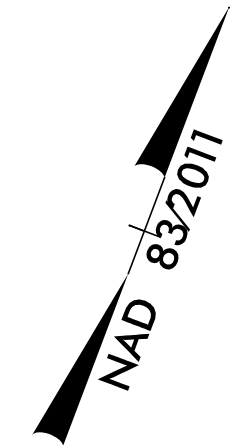
MATCHLINE SHEET 14B
-L- STA. 193+00

6/17/2024

6/17/2024
R2576
C:\psh\14B.dgn
SYDNEY



SAV HABITAT



LOCHNER

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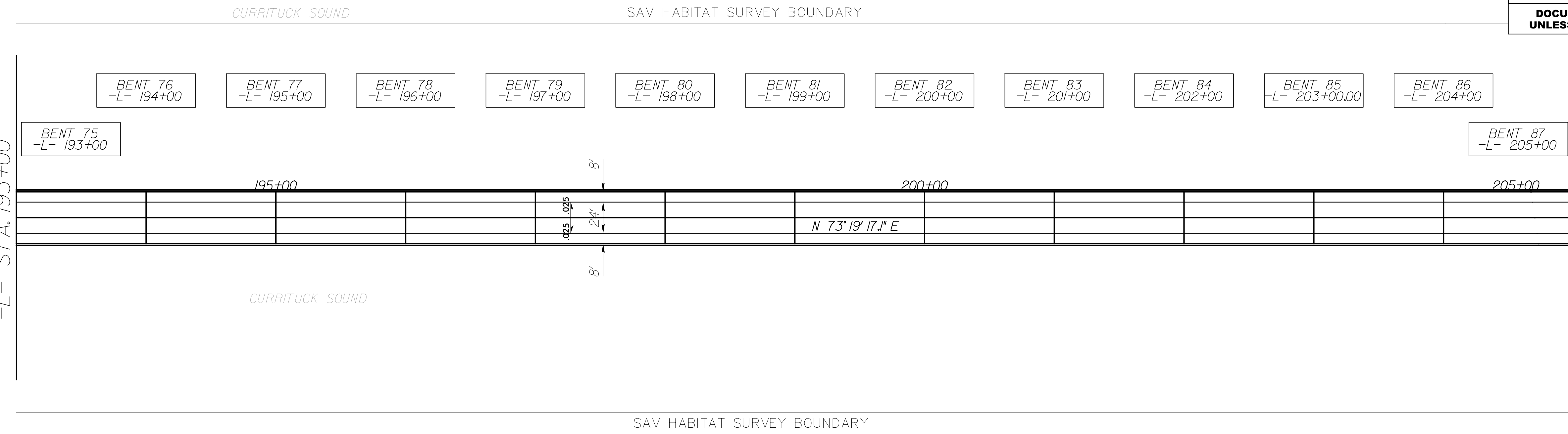


1223 Jones Franklin Rd.
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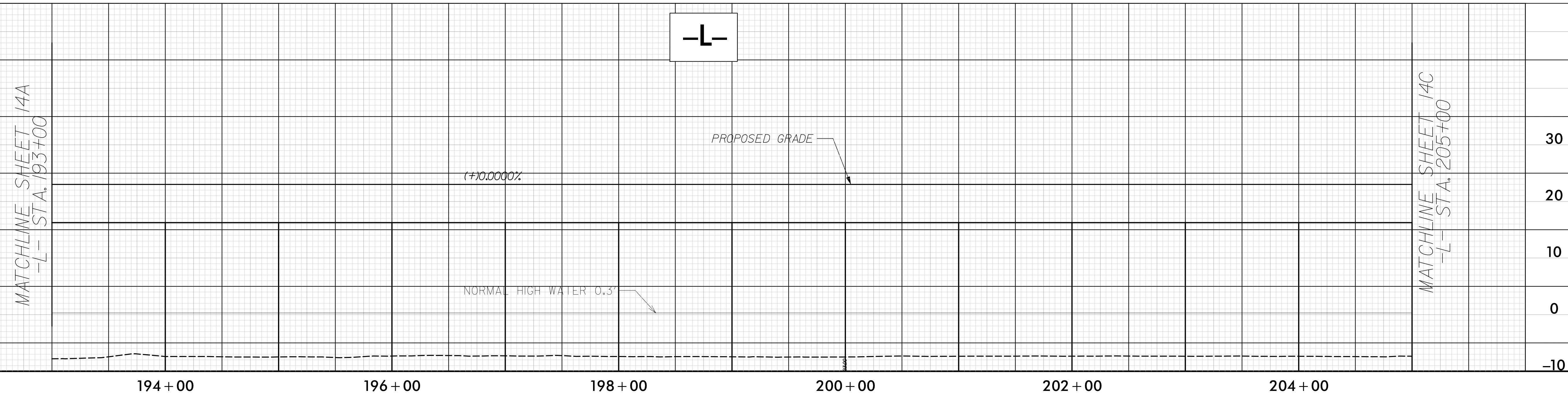
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. <i>R-2576</i>	SHEET NO. <i>14B</i>
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	

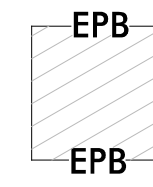
MATCHLINE SHEET 14A
-L- STA. 193+00



MATCHLINE SHEET 14C
-L- STA. 205+00



B/17/24



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LOCHNER

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2840 PLAZA PLACE, SUITE 202
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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

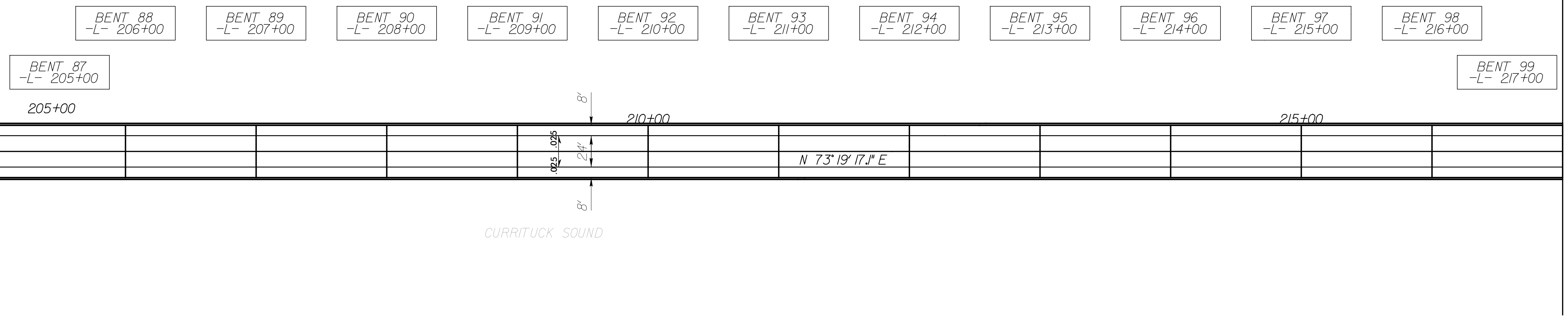
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. R-2576	SHEET NO. 14C
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	

CURRITUCK SOUND

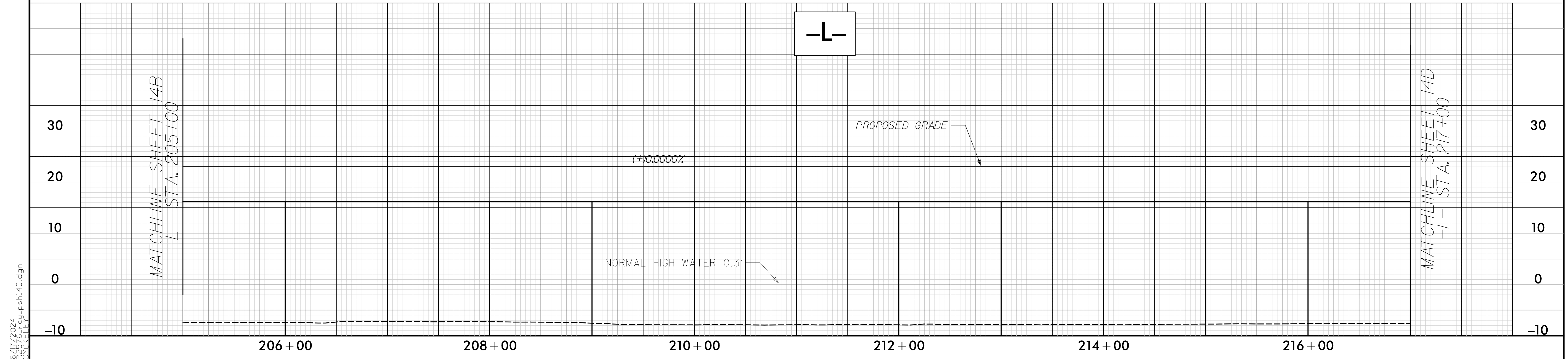
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MATCHLINE SHEET 14B
-L- STA. 205+00



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

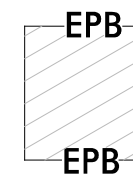
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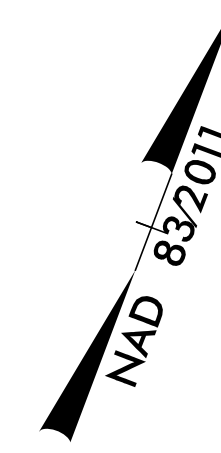
6/17/2024
R2576
C:\psh\14C.dgn
SYDNEY

6/17/2024

6/17/2024
R2576
C:\psh140.dgn
SYDNEY



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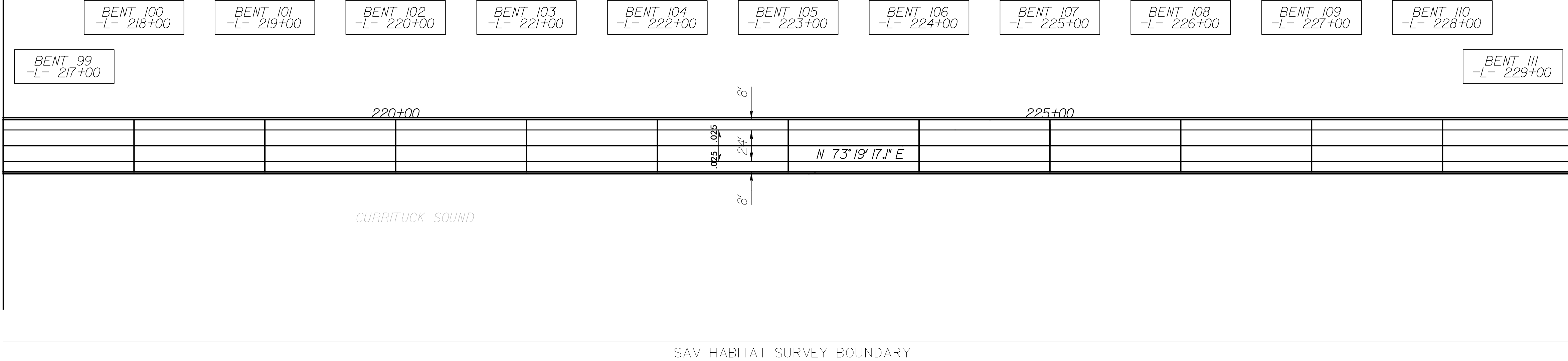


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Fax: 919 851 8107

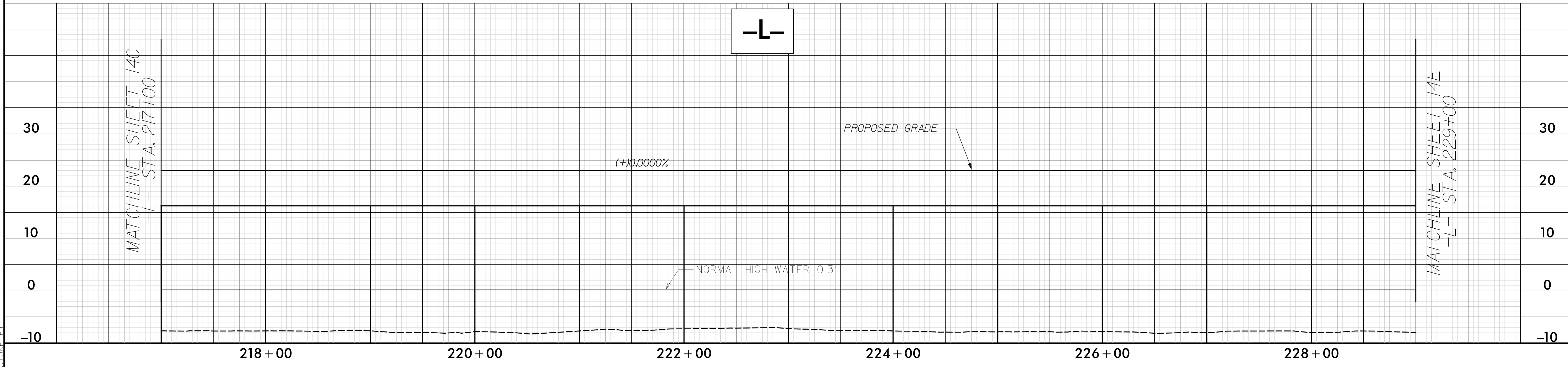
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CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. <i>R-2576</i>	SHEET NO. <i>14D</i>
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	

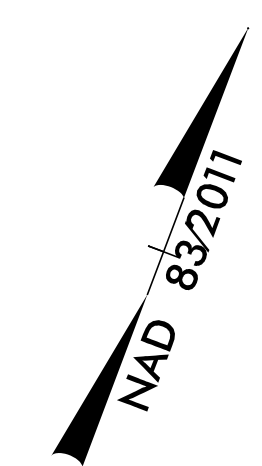
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-L- STA. 217+00



MATCHLINE SHEET 14E
-L- STA. 229+00



B17276



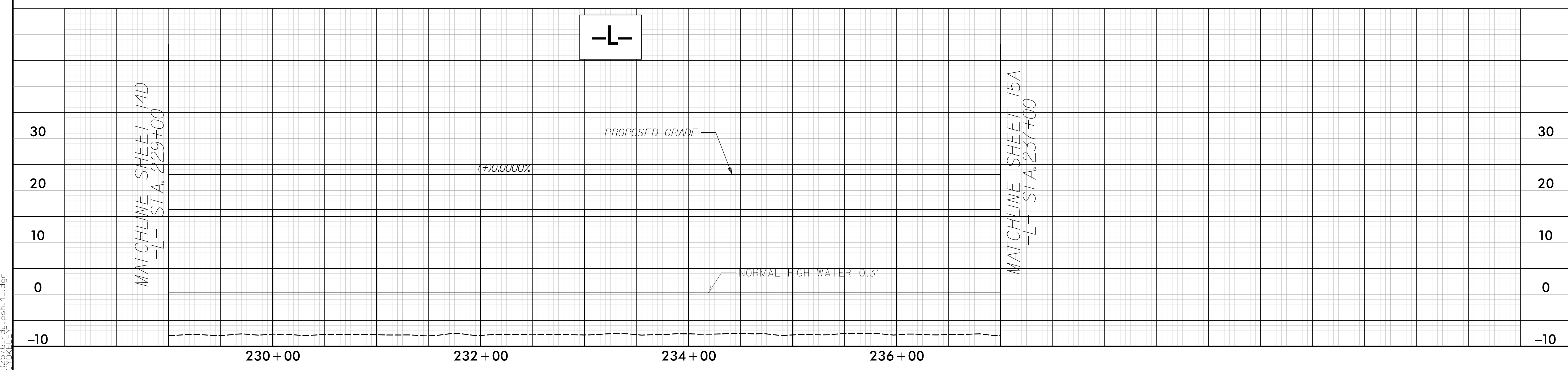
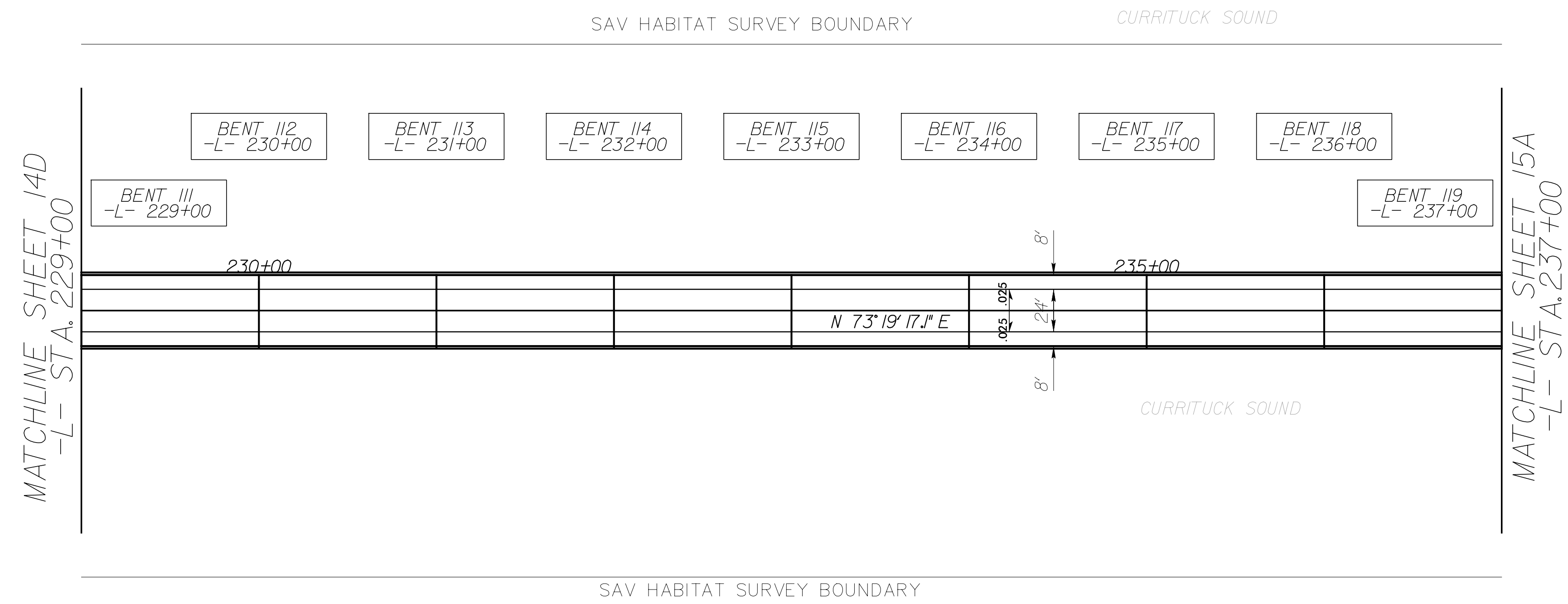
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 RALEIGH, NC 27612
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WETHERILL ENGINEERING
 1223 Jones Franklin Rd.
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 Bus: 919 851 8077
 Fax: 919 851 8107

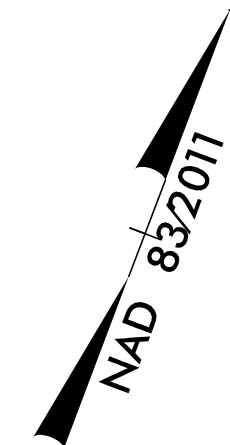
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. <i>R-2576</i>	SHEET NO. <i>14E</i>
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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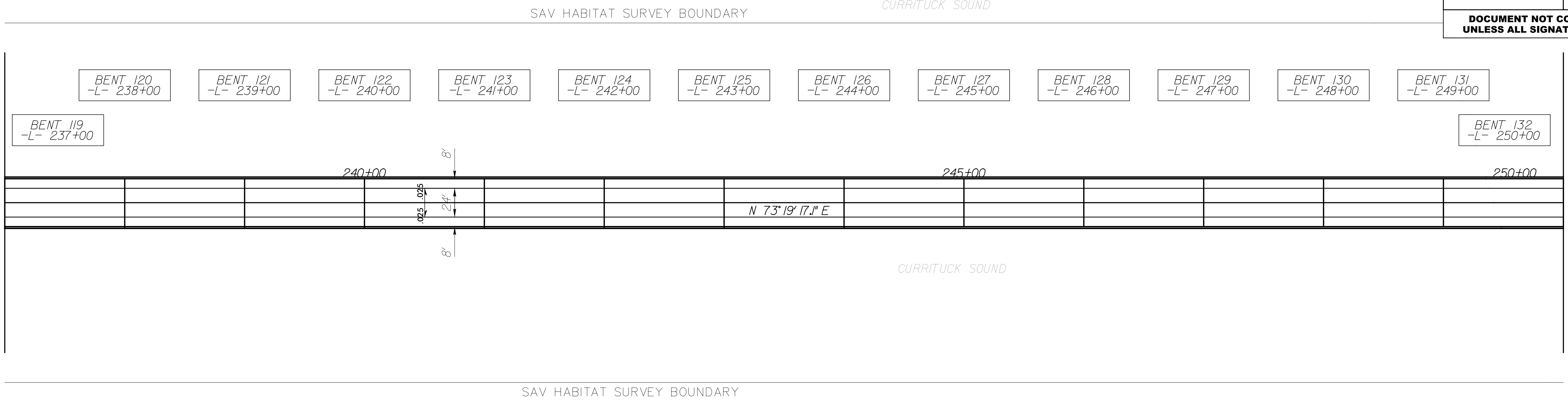
1223 Jones Franklin Rd.
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WETHERILL ENGINEERING
 TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. R-2576	SHEET NO. 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	

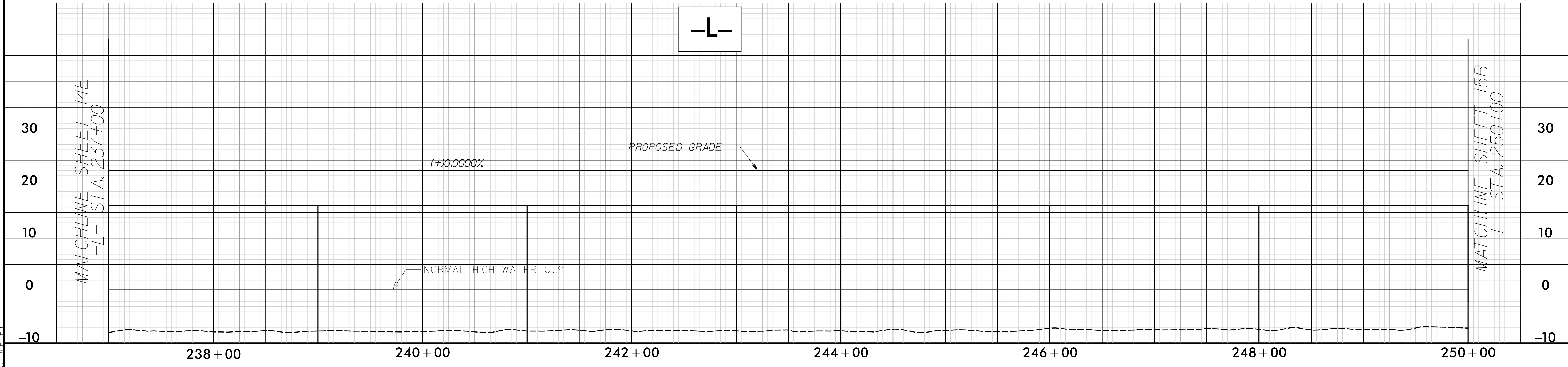
MATCHLINE SHEET 14E
-L- STA. 237+00

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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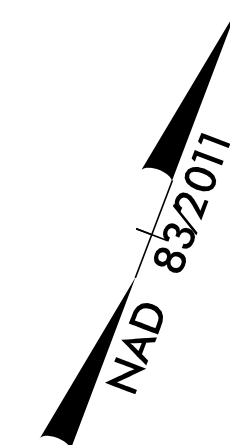
NC License
Number F-0159



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Bus: 919 851 8077
Fax: 919 851 8107

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

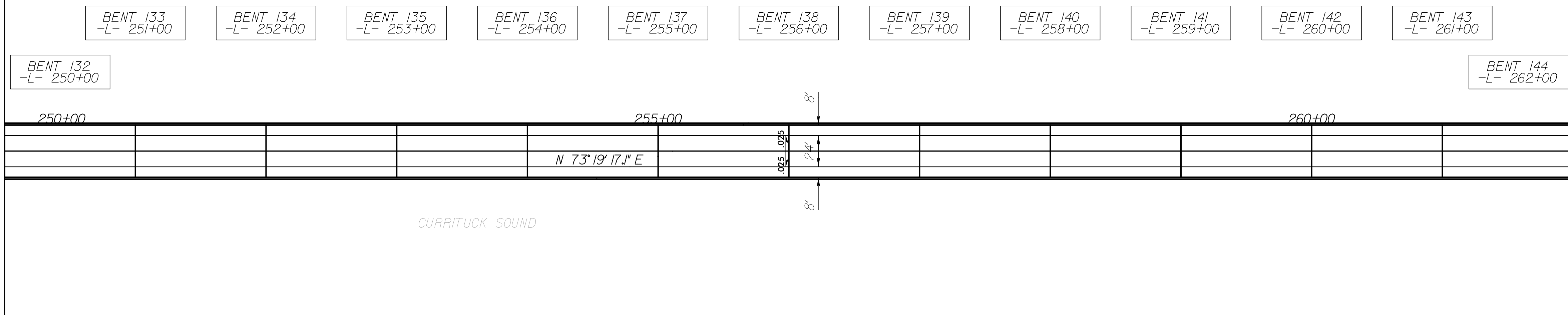
PROJECT REFERENCE NO. R-2576	SHEET NO. 15B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



CURRITUCK SOUND

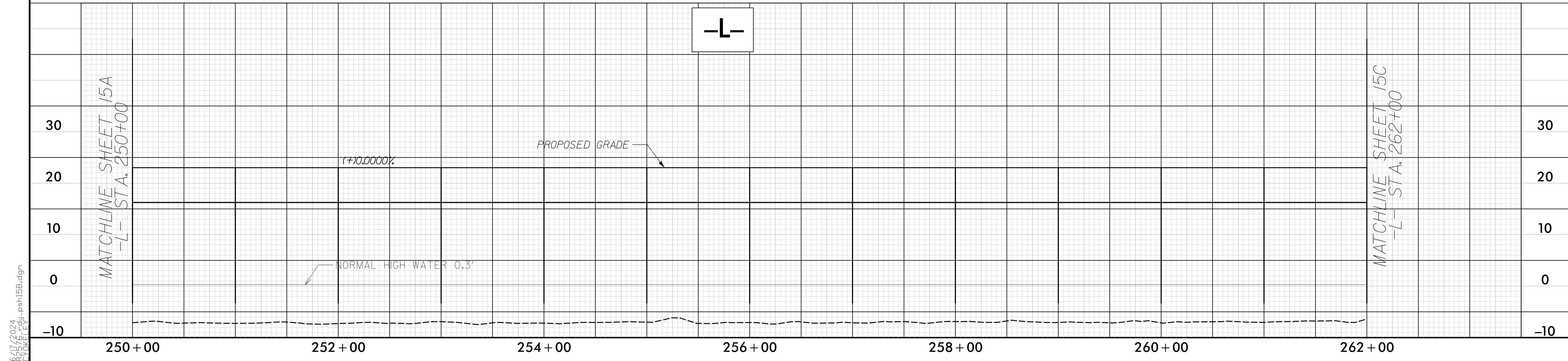
SAV HABITAT SURVEY BOUNDARY

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



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

SAV HABITAT SURVEY BOUNDARY



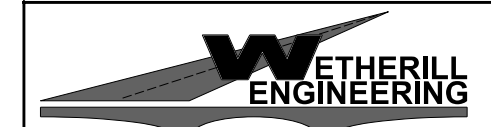
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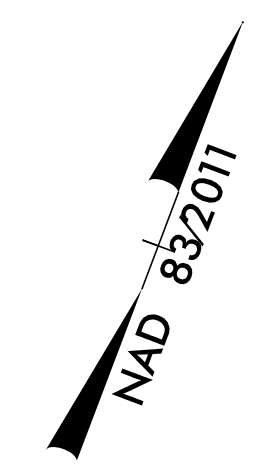
NC License
Number F-0159



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License No. F-0377
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Fax: 919 851 8107

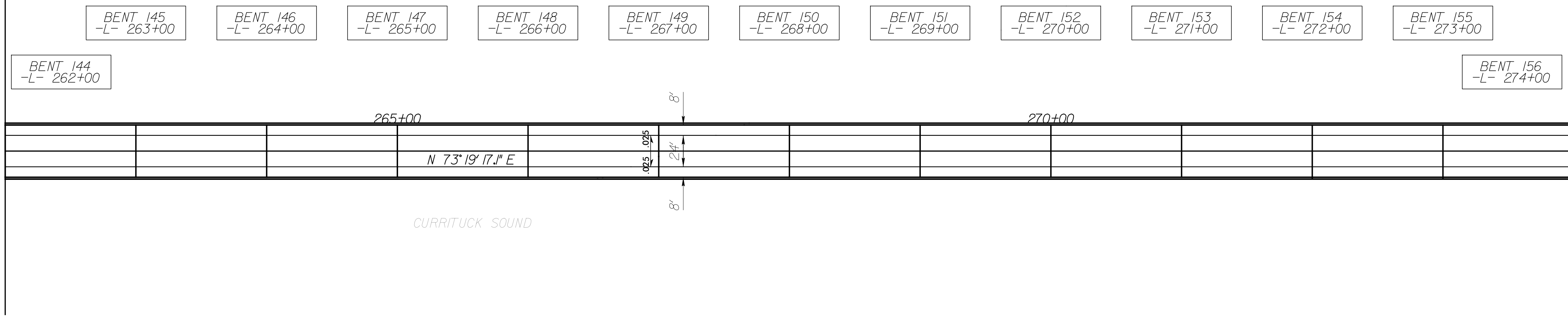
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. <i>R-2576</i>	SHEET NO. <i>15C</i>
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	



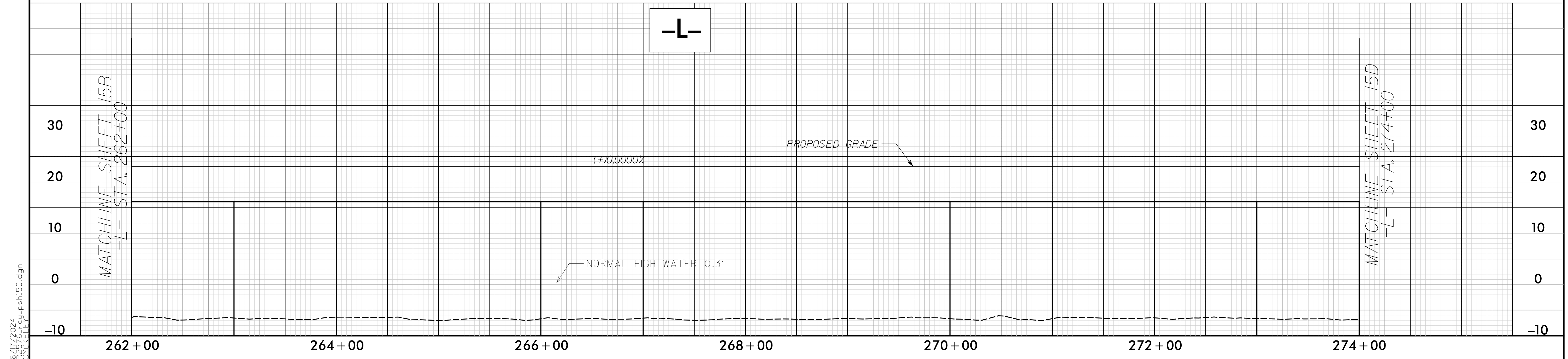
CURRITUCK SOUND SAV HABITAT SURVEY BOUNDARY

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



MATCHLINE SHEET 15D
-L- STA. 274+00

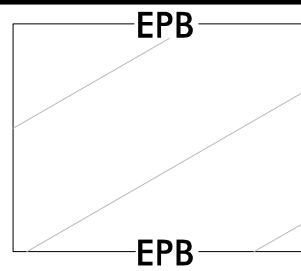
SAV HABITAT SURVEY BOUNDARY



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

BENT 156
-L- 274+00

BENT 157
-L- 275+00

BENT 158
-L- 276+00

BENT 159
-L- 277+00

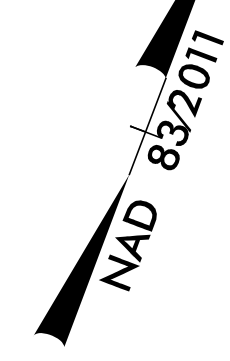
BENT 160
-L- 278+00

BENT 161
-L- 279+00

BENT 162
-L- 280+00

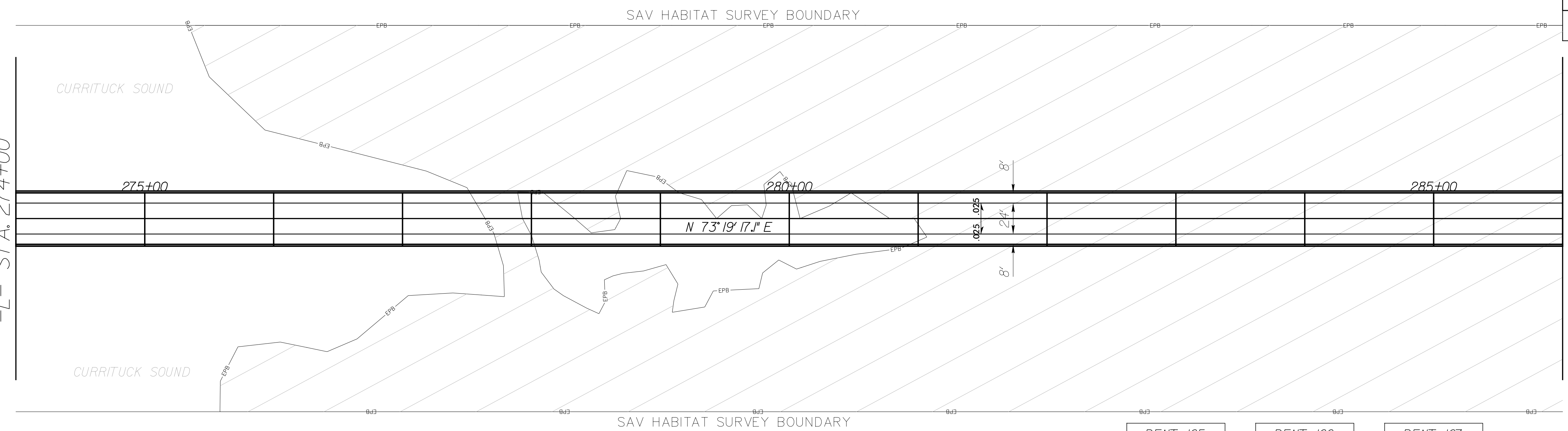
BENT 163
-L- 281+00

BENT 164
-L- 282+00



MATCHLINE SHEET 15C
-L- STA. 274+00

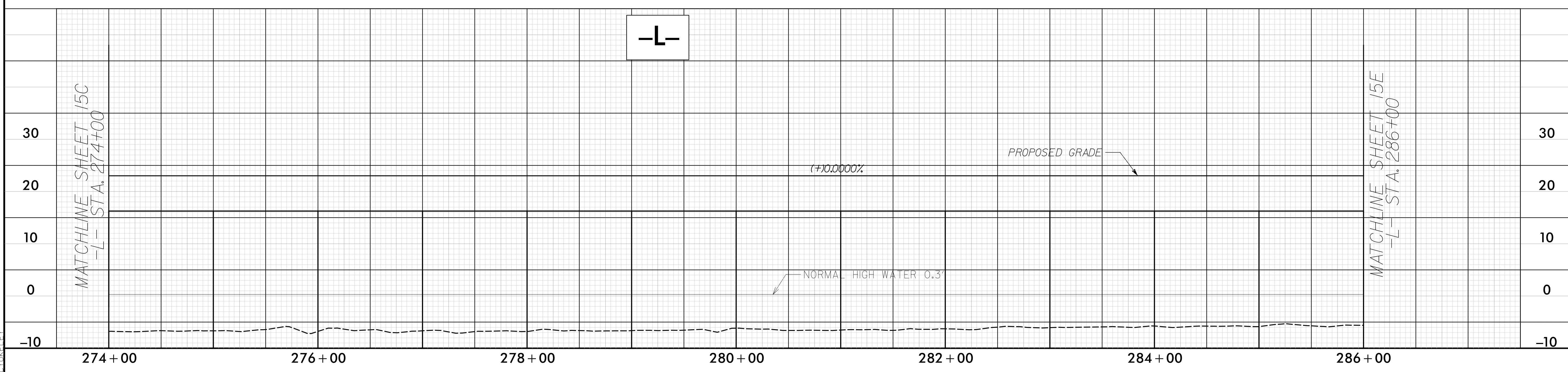
MATCHLINE SHEET 15E
-L- STA. 286+00



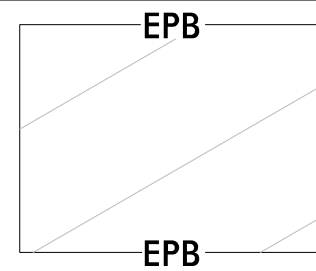
BENT 165
-L- 283+00

BENT 166
-L- 284+00

BENT 167
-L- 285+00



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BENT 169
-L- 287+00

BENT 170
-L- 288+00

BENT 171
-L- 289+00

BENT 172
-L- 290+00

BENT 173
-L- 291+00

BENT 174
-L- 292+00

BENT 175
-L- 293+00

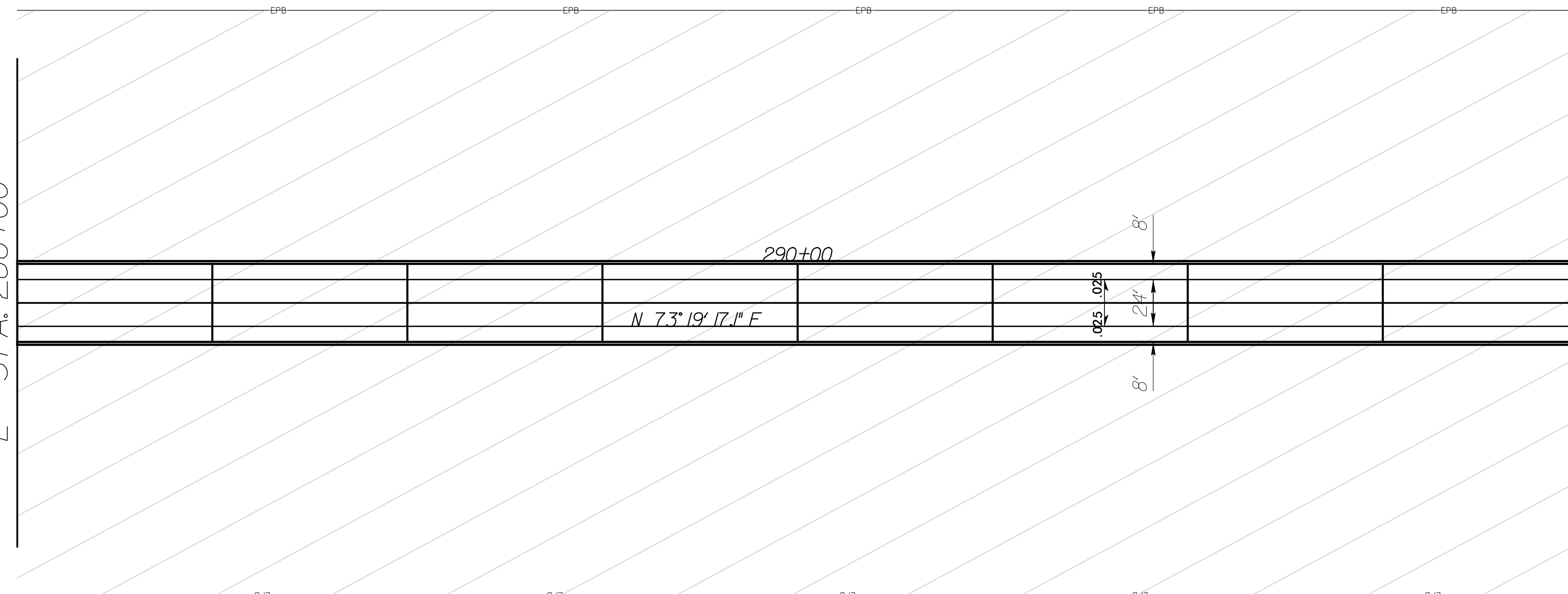
BENT 168
-L- 286+00

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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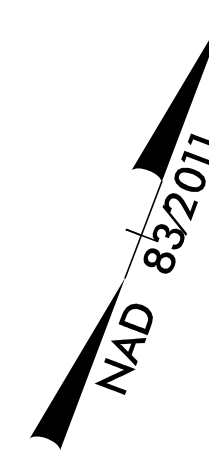


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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

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

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



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SYDNEY



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SYDNEY

BENT 176
-L- 294+00

BENT 177
-L- 295+00

BENT 178
-L- 296+00

BENT 179
-L- 297+00

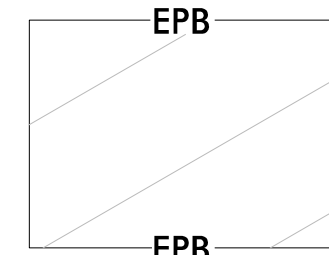
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BENT 181
-L- 299+00

BENT 182
-L- 300+00

BENT 183
-L- 301+00

BENT 184
-L- 302+00



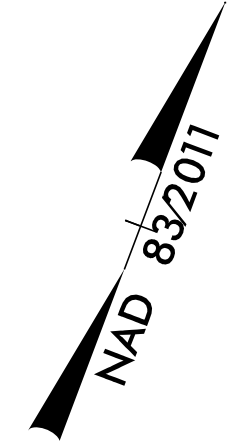
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NC License
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 Raleigh, N.C. 27606
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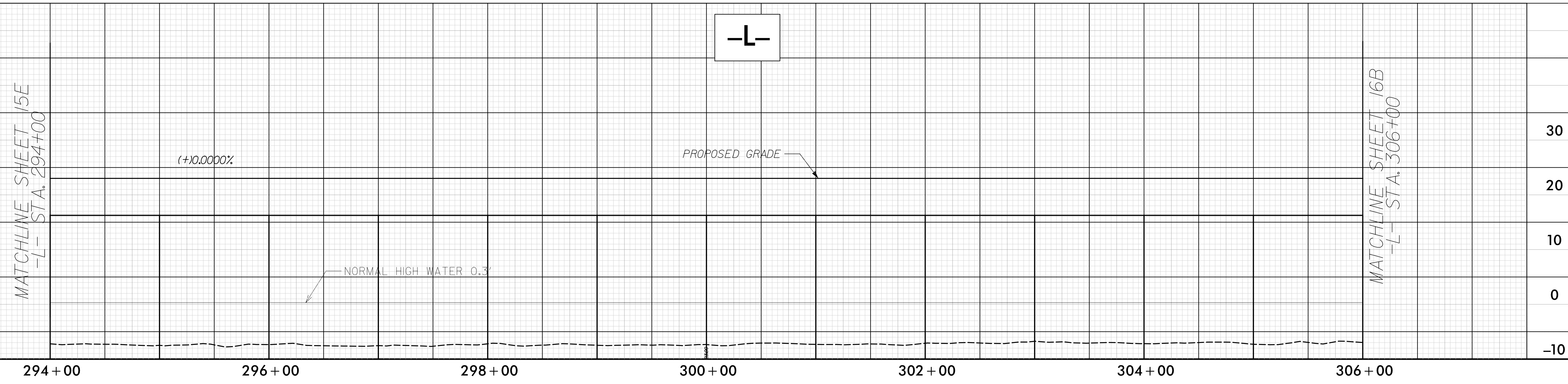
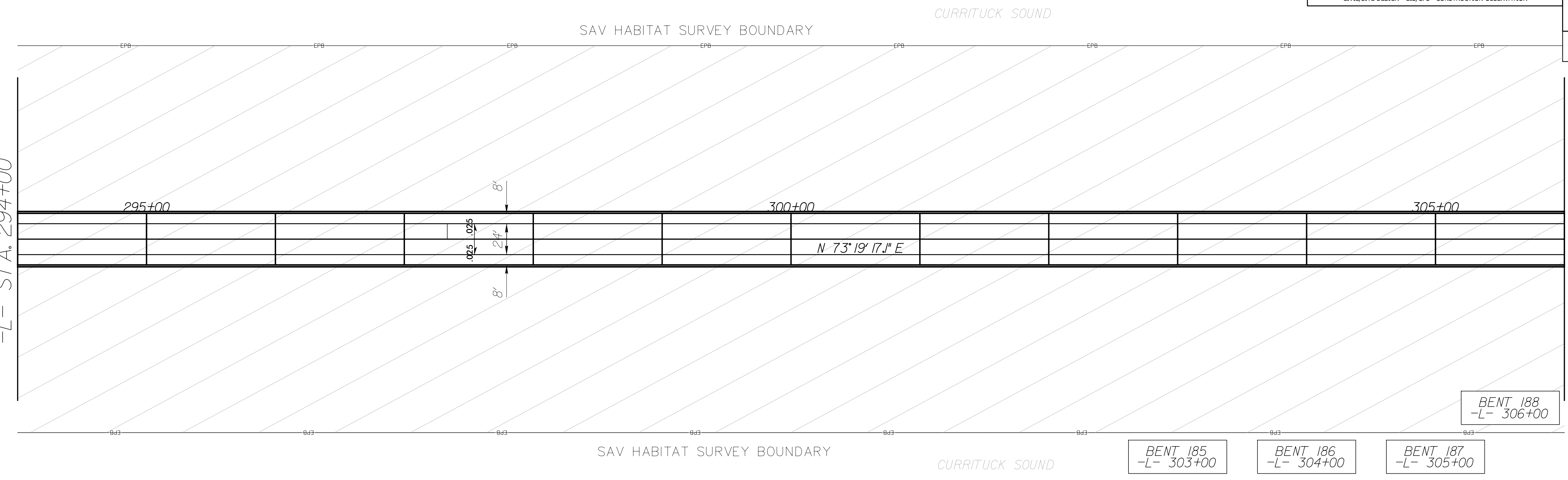
WETHERILL ENGINEERING
 TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. R-2576	SHEET NO. 16A
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	



MATCHLINE SHEET 15E
-L- STA. 294+00

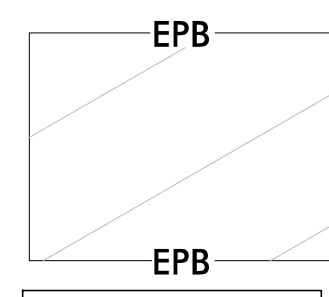
MATCHLINE SHEET 16B
-L- STA. 306+00



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6/17/2024
R2576-CP-sh16B.dgn
SYDNEY

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



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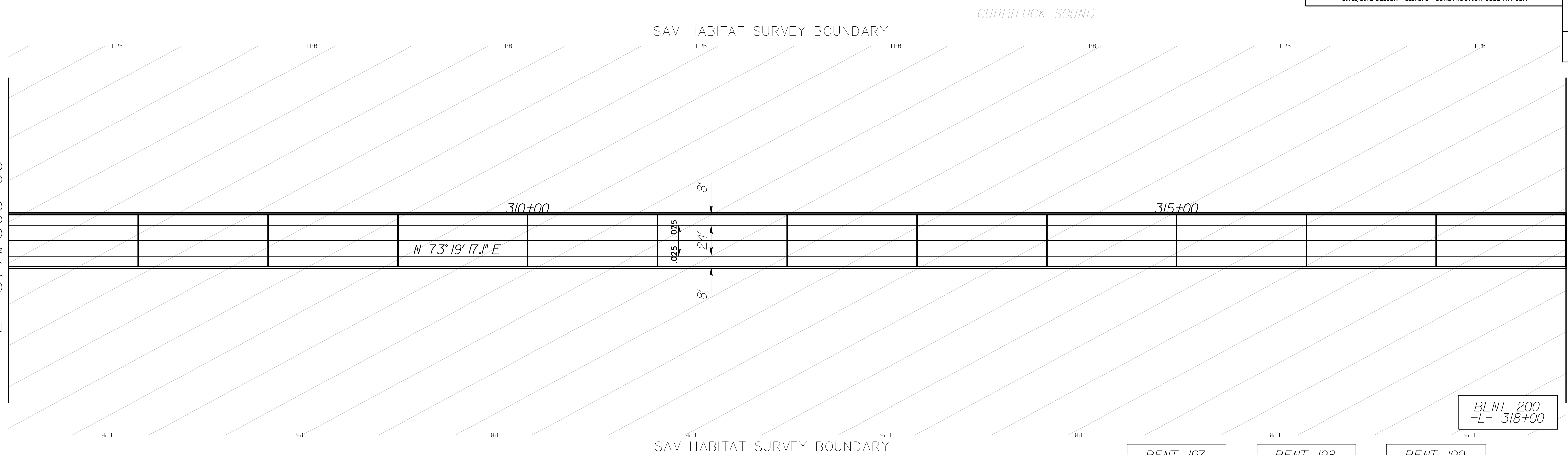
1223 Jones Franklin Rd.
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WETHERILL ENGINEERING
 TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. R-2576	SHEET NO. 16B
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	

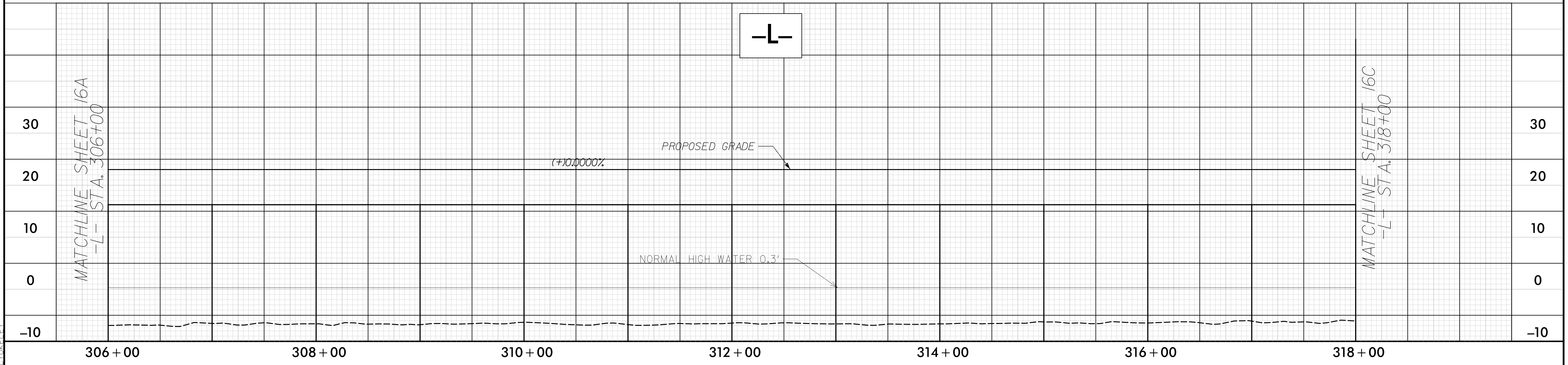
MATCHLINE SHEET 16A
-L- STA. 306+00

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

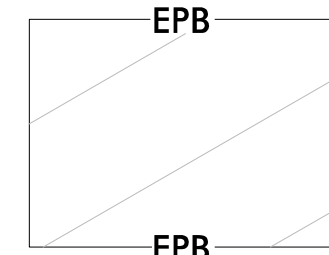


BENT 197 -L- 315+00 BENT 198 -L- 316+00 BENT 199 -L- 317+00

BENT 200
-L- 318+00



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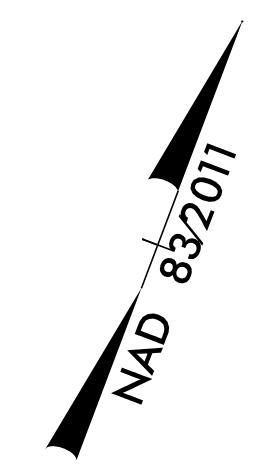
1223 Jones Franklin Rd.
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 Fax: 919 851 8107

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

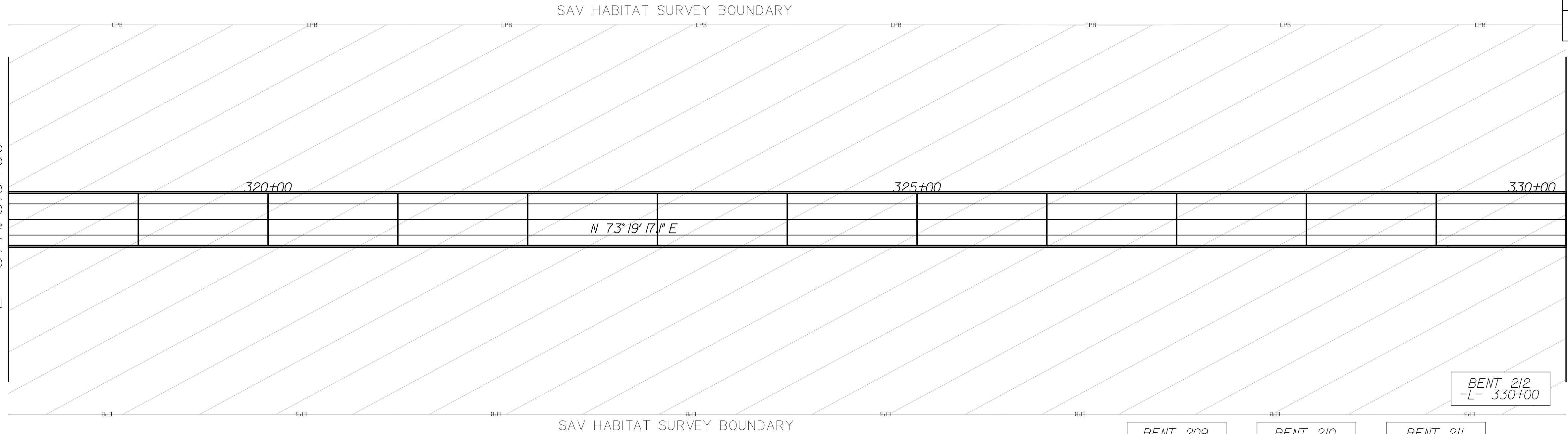
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RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

- 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

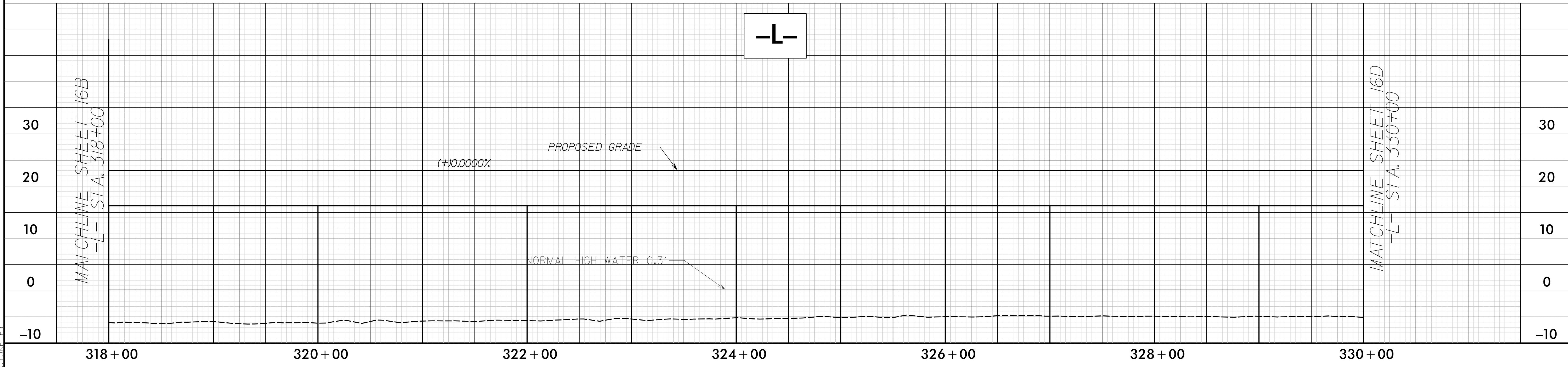
MATCHLINE SHEET 16D
-L- STA. 330+00



- BENT 209
-L- 327+00
- BENT 210
-L- 328+00
- BENT 211
-L- 329+00

BENT 212
-L- 330+00

-L-



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SYDNEY

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

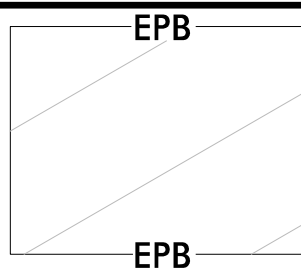
BENT 216
-L- 334+00

BENT 217
-L- 335+00

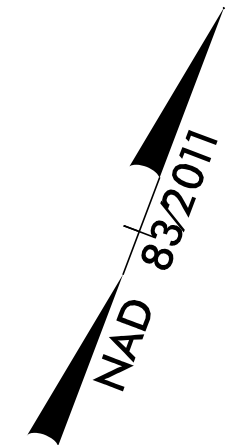
BENT 218
-L- 336+00

BENT 219
-L- 337+00

BENT 220
-L- 338+00



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Fax: 919 851 8107

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

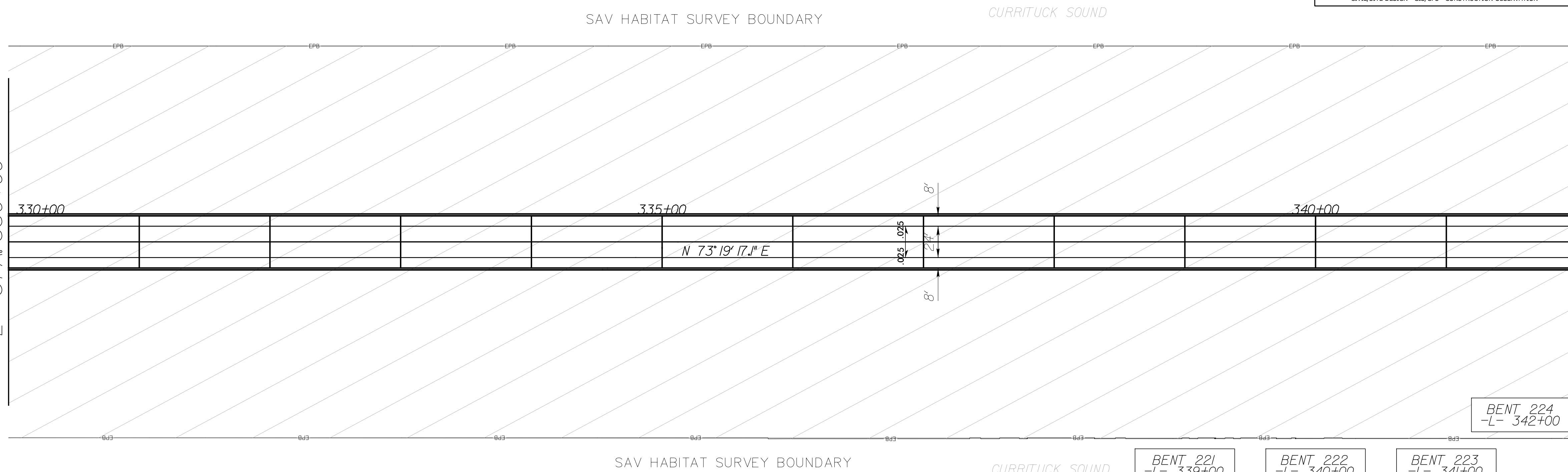
PROJECT REFERENCE NO. SHEET NO.
R-2576 16D

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**

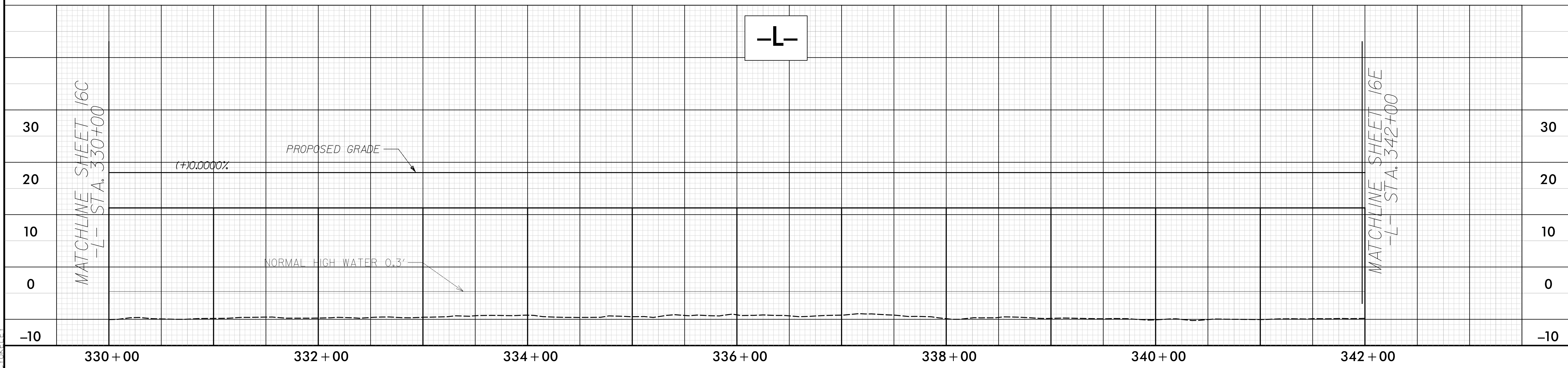
MATCHLINE SHEET 16C
-L- STA. 330+00

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



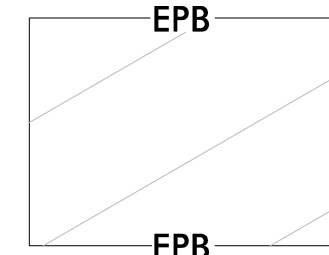
MATCHLINE SHEET 16C
-L- STA. 330+00

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



6/17/2024

6/17/2024
R2576-CDU-psh16E.dgn
SYDNEY



LOCHNER

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

NC License
Number F-0159

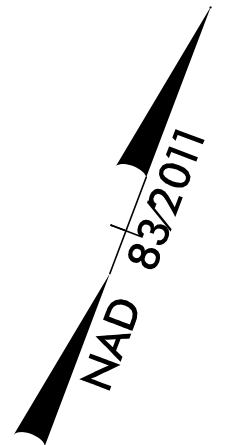
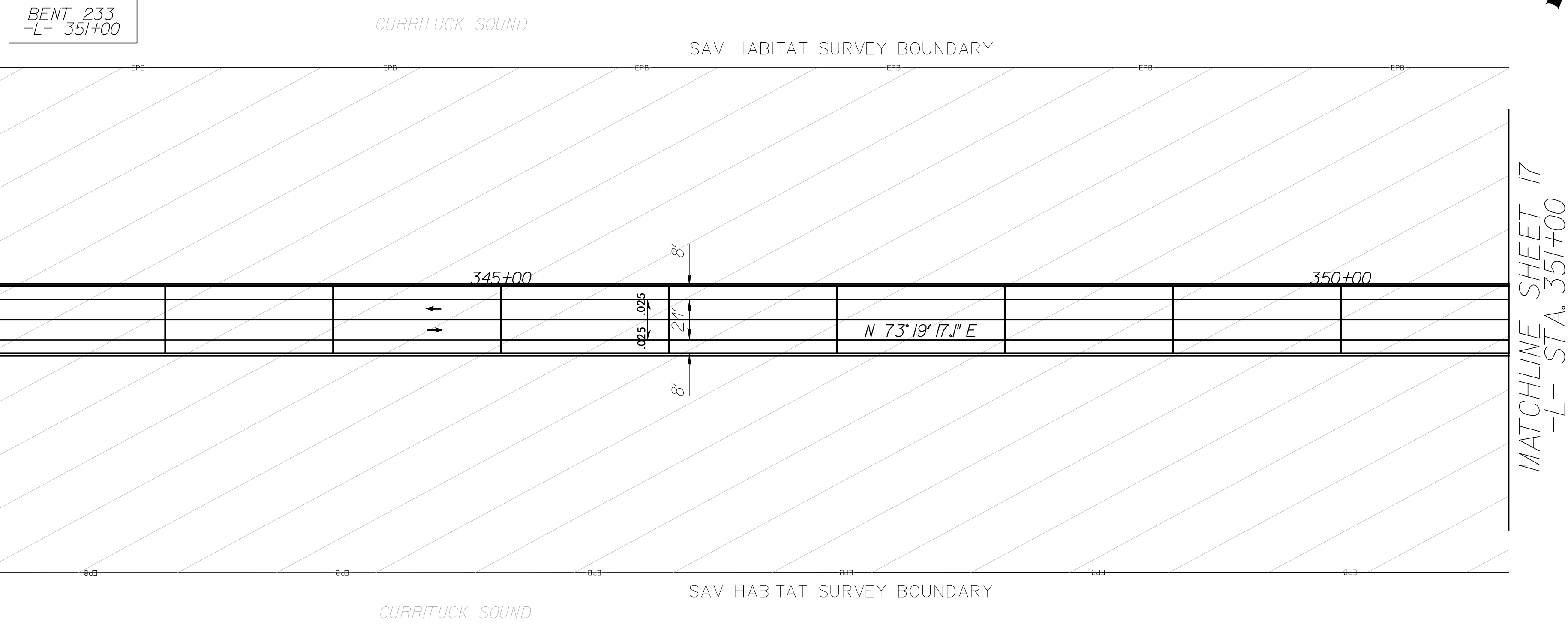


1223 Jones Franklin Rd.
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License No. F-0377
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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. R-2576	SHEET NO. 16E
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	

- 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

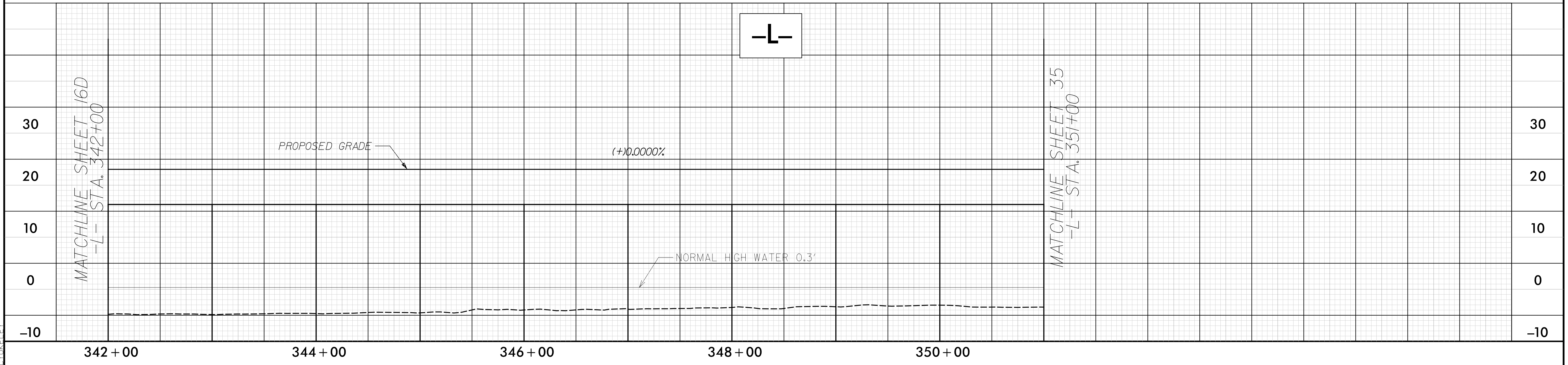


MATCHLINE SHEET 16D
-L- STA. 342+00

MATCHLINE SHEET 17
-L- STA. 351+00

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

MATCHLINE SHEET 35
-L- STA. 351+00



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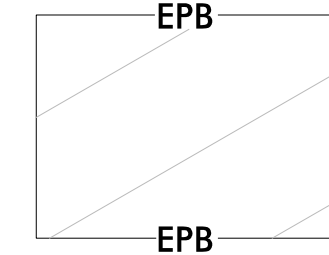
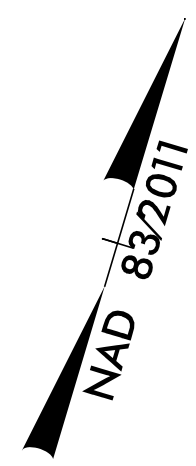
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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION



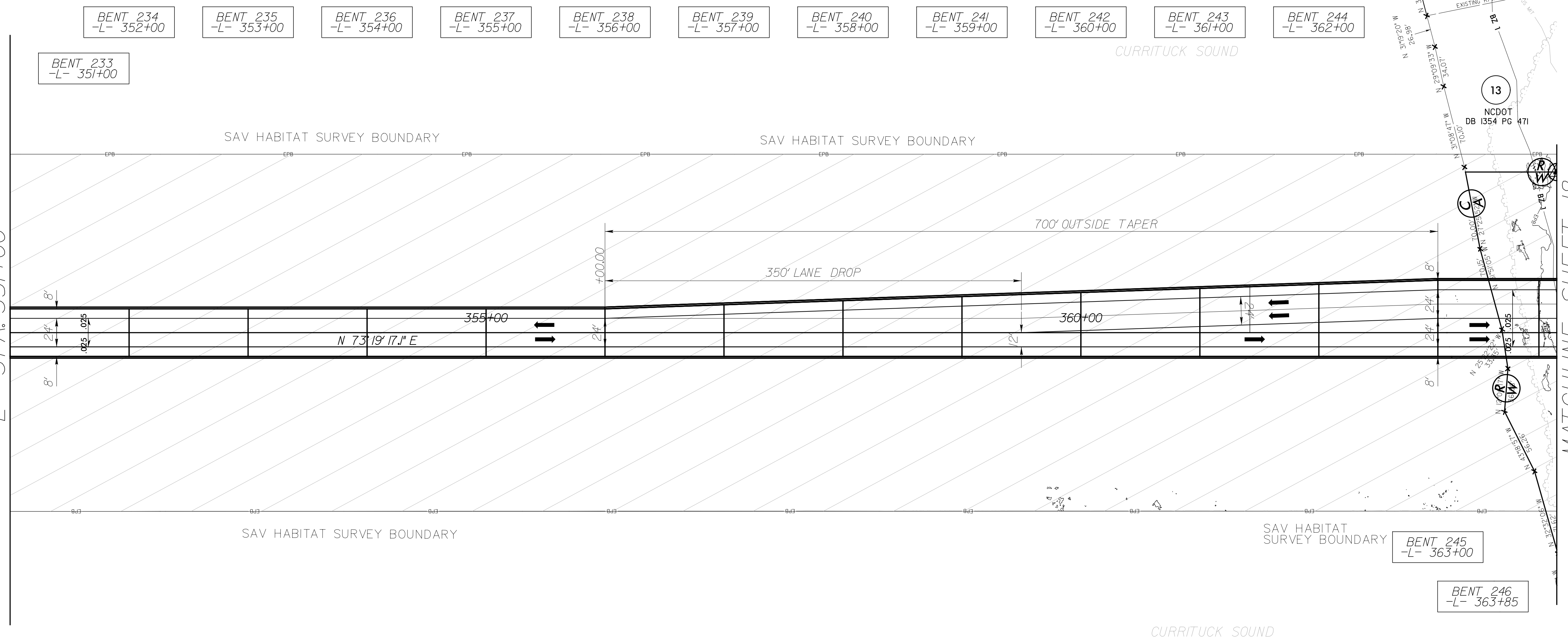
PROJECT REFERENCE NO. R-2576	SHEET NO. 17
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	

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

MATCHLINE SHEET 18
-L- STA. 364+00



6/17/2024
 R0376-F04-psh17.dgn
 C. COCKELEY

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

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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

ROADWAY DESIGN ENGINEER
PAVEMENT DESIGN ENGINEER
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

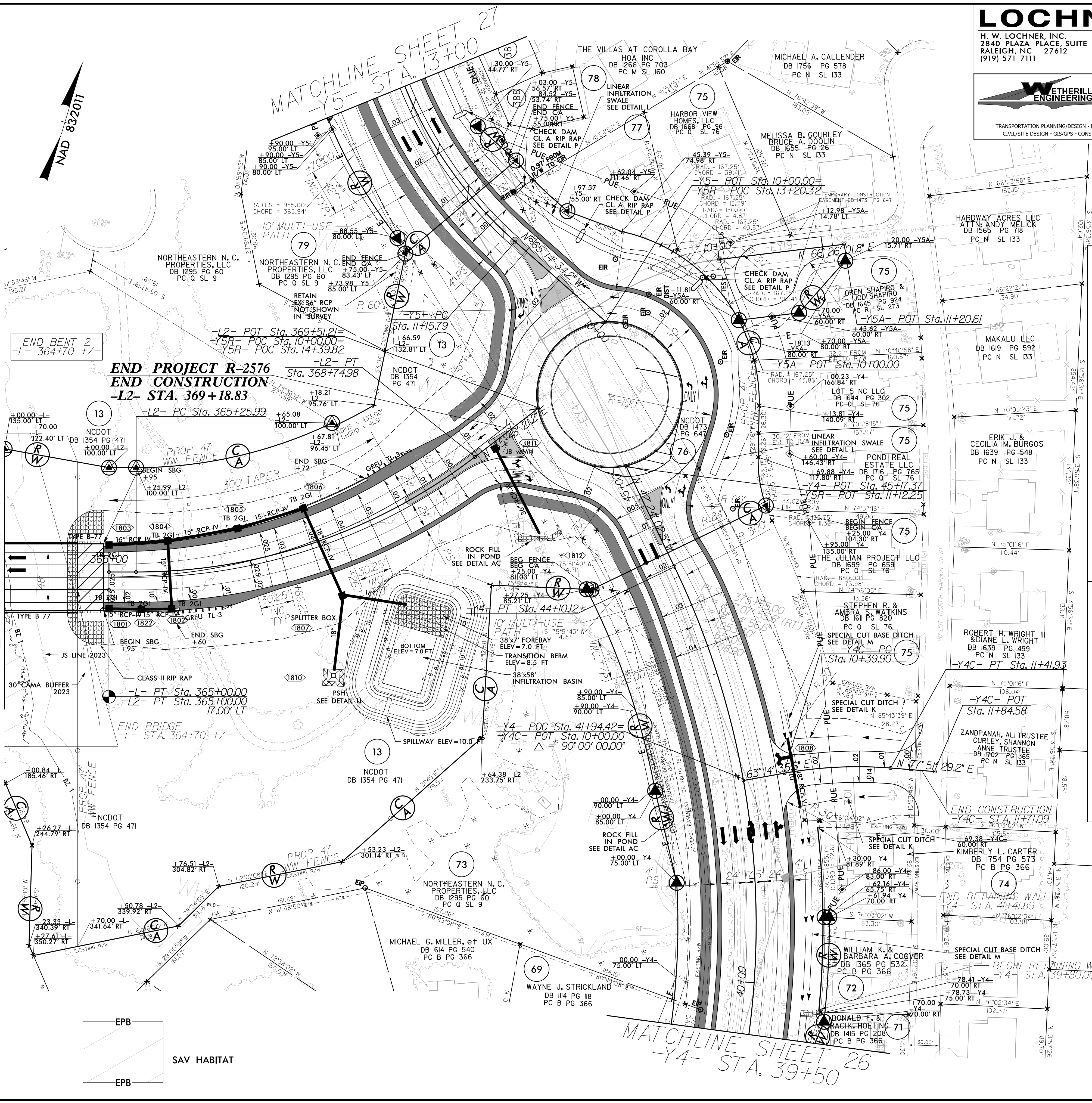
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

PAVED SHOULDER

MATCHLINE SHEET 17
-L- STA. 364+00

MATCHLINE SHEET 27
-Y5- STA. 13+00

MATCHLINE SHEET 26
-Y4- STA. 39+50



-L2-
PI Sta 367+07.00
 $\Delta = 37' 30'' 55.8''$ (LT)
D = 10' 44' 58.8"
L = 348.99'
T = 181.0'
R = 533.00'
SE = 0.04
Ro = 128'

-Y4-
PI Sta 41+22.31
 $\Delta = 44' 03'' 11.7''$ (LT)
D = 7' 15' 09.5"
L = 607.4'
T = 319.6'
R = 790.00'
SE = 0.04
Ro = 168'

-Y5-
PI Sta 12+15.37
 $\Delta = 27' 57'' 40.8''$ (RT)
D = 14' 19' 26.2"
L = 195.2'
T = 99.59'
R = 400.00'
SE = 0.04
Ro = 168'

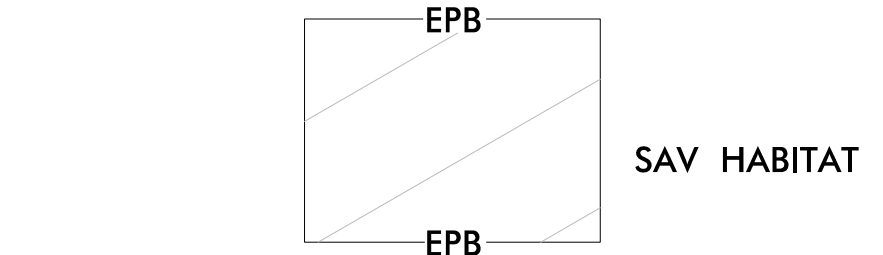
-Y4C-
PI Sta 10+91.19
 $\Delta = 14' 36'' 53.7''$ (RT)
D = 14' 19' 26.2"
L = 439.82'
T = 51.29'
R = 400.00'
SE = 0.02
Ro = 48'

-Y5R-
PI Sta 10+00.00
 $\Delta = 8' 51'' 04.0''$ (LT)
D = 8' 51' 04.0"
L = 439.82'
T = 0.00'
R = 70.00'
SE = 0.02
Ro = 48'

NC 12

14,700	3,400
14,000	5,200
MID-CURRITUCK BRIDGE	
11,800	18,000
8,400	
12,800	
19,700	
21,600	
2020 ADT	
2040 ADT	
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



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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
DO NOT USE FOR R/W ACQUISITION

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UNLESS ALL SIGNATURES COMPLETED

PAVED SHOULDER

-Y-		
Pls Sta 21+52.26	PI Sta 27+75.58	Pls Sta 33+94.24
$\Theta_s = 0^\circ 55' 36.6"$	$\Delta = 12^\circ 43' 01.7" (RT)$	$\Theta_s = 0^\circ 55' 36.6"$
$L_s = 165.00'$	$D = 1^\circ 07' 24.4"$	$L_s = 165.00'$
$LT = 110.00'$	$L = 1,131.98'$	$LT = 110.00'$
$ST = 55.00'$	$T = 568.32'$	$ST = 55.00'$
	$R = 5,100.00'$	
	$SE = 0.03$	

-Y2-	
PI Sta 11+70.00	PI Sta 25+74.49
$\Delta = 81^\circ 32' 22.8" (LT)$	$\Delta = 95^\circ 09' 21.1" (RT)$
$D = 36^\circ 57' 54.1"$	$D = 6^\circ 44' 26.4"$
$L = 220.59'$	$L = 1,411.67'$
$T = 133.65'$	$T = 930.15'$
$R = 155.00'$	$R = 850.00' **$
$SE = 0.06$	$SE = 0.06$
$Ro = 144'$	$Ro = 144'$

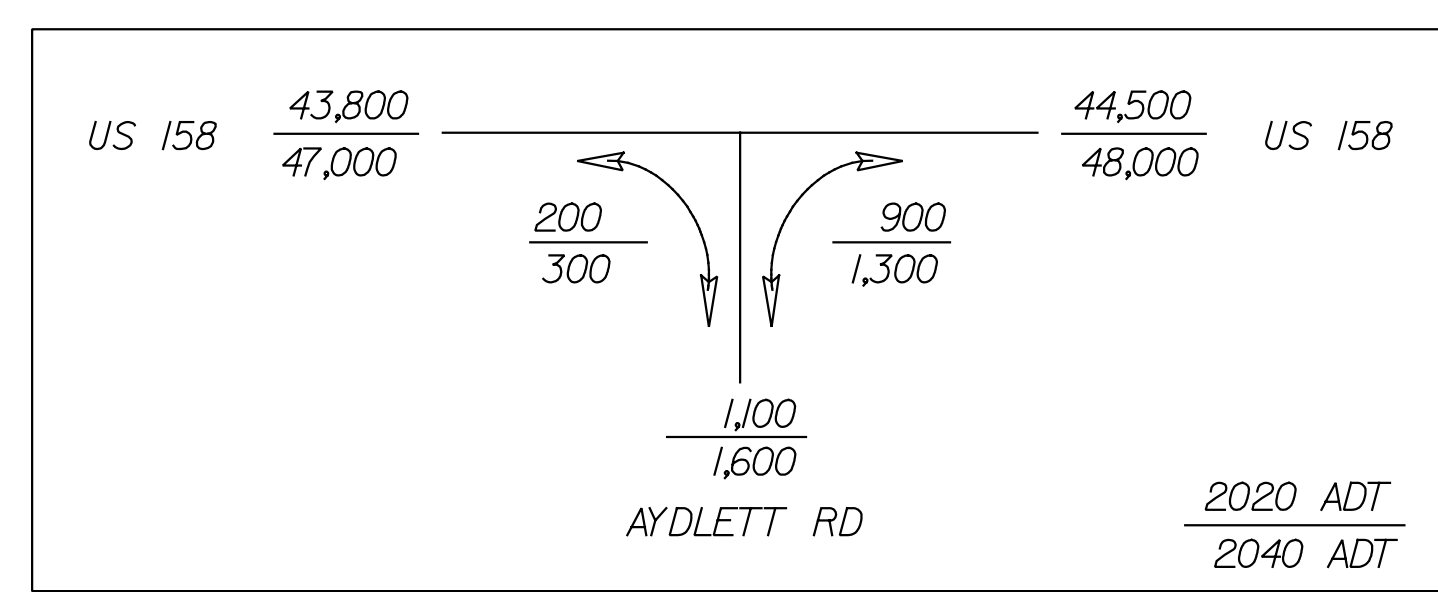
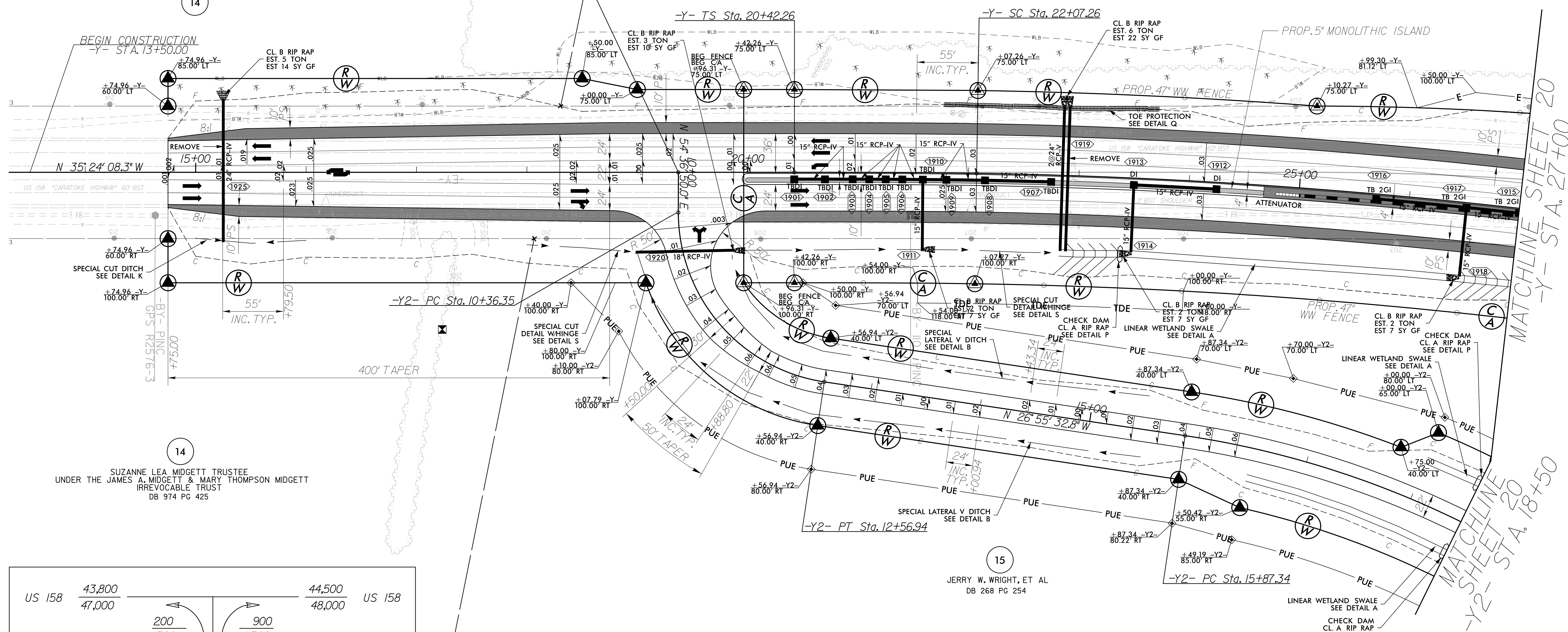
** DESIGN EXCEPTION REQUIRED FOR HORIZONTAL CURVE

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
 $\Delta = 89^\circ 59' 01.74"$



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
R3576-19-01-01-01-01.dgn
C. COCKLEY

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

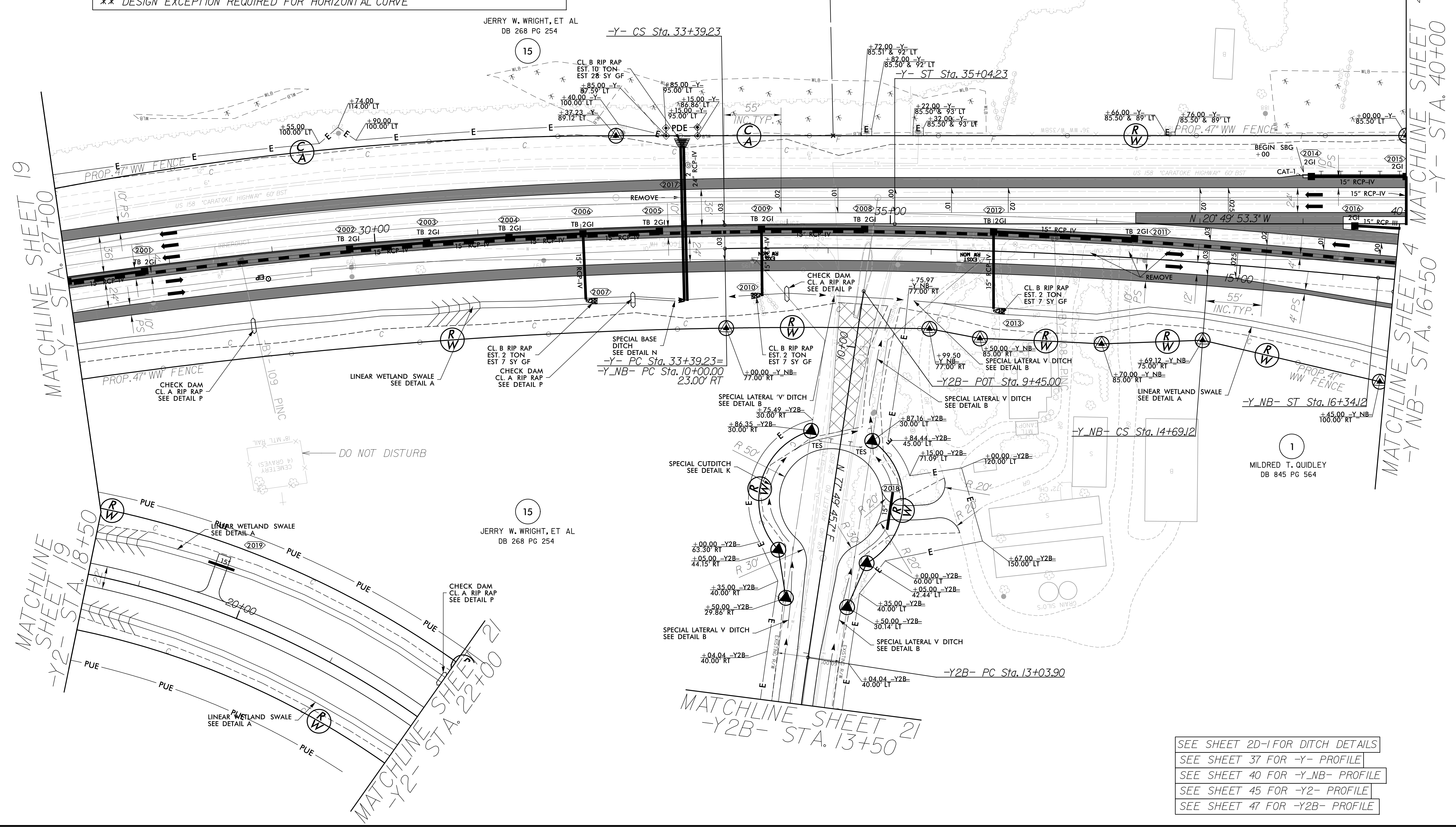
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WETHERILL ENGINEERING
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 Fax: 919 851 8107

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

-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 θs = 8° 07' 45.1" (LT) Ls = 165.00' LT = 110.00' ST = 55.00'
-Y2-			
-Y2B-			

** DESIGN EXCEPTION REQUIRED FOR HORIZONTAL CURVE



MATCHLINE SHEET 19
-Y- STA. 27+00

MATCHLINE SHEET 19
-Y2- STA. 18+50

MATCHLINE SHEET 21
-Y2- STA. 22+00

MATCHLINE SHEET 4
-Y- STA. 40+00

MATCHLINE SHEET 4
-Y NB- STA. 16+50

JERRY W. WRIGHT, ET AL
DB 268 PG 254

JERRY W. WRIGHT, ET AL
DB 268 PG 254

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

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

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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. SHEET NO.

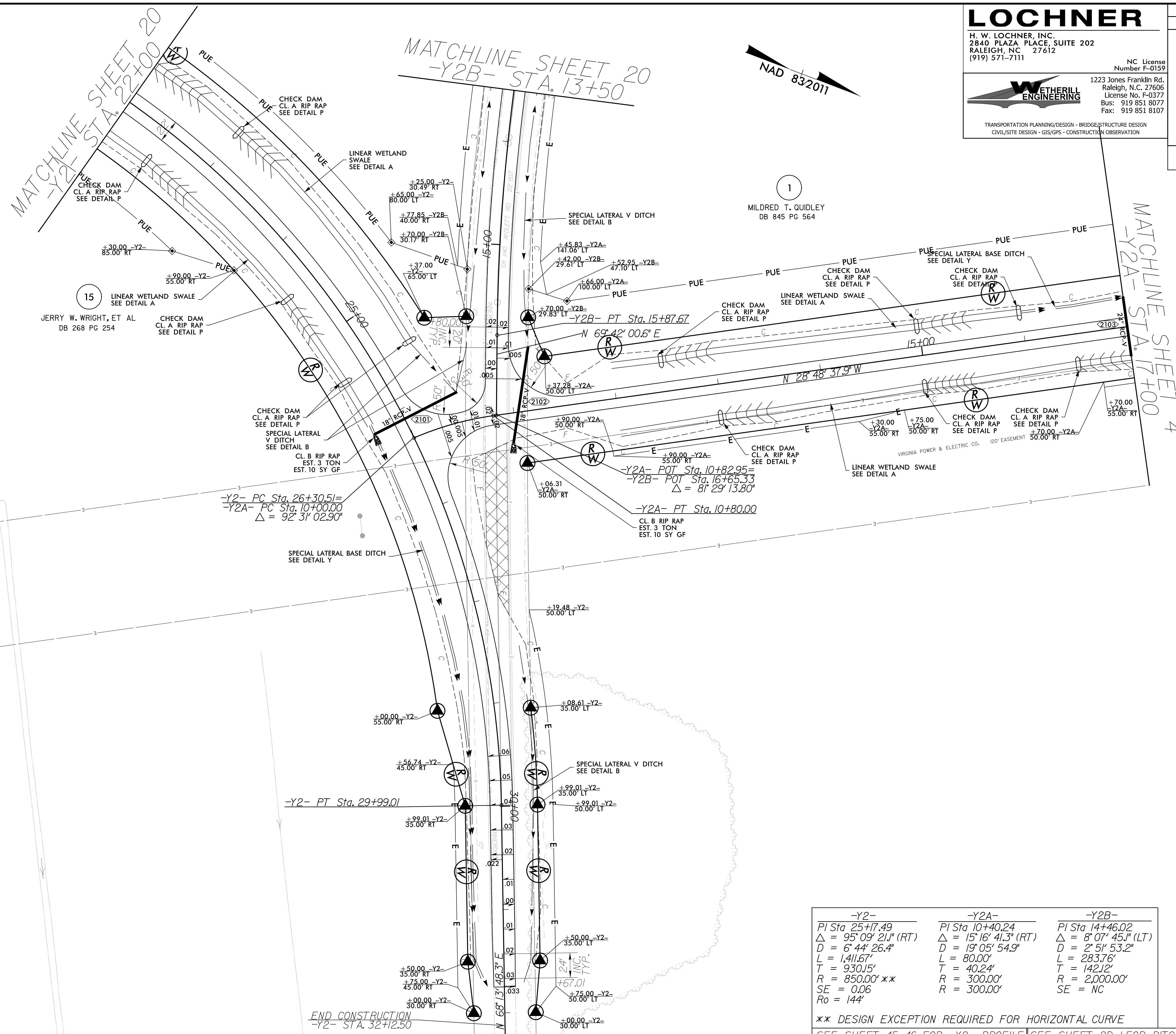
R-2576 21

ROADWAY DESIGN ENGINEER

PAVEMENT DESIGN ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



MATCHLINE SHEET
-Y2- STA. 22+00 20

MATCHLINE SHEET 20
-Y2B- STA. 13+50

MATCHLINE SHEET 4
-Y2A- STA. 17+00

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
 $\Delta = 81^\circ 29' 13.80''$

END CONSTRUCTION
-Y2- STA. 32+2.50

-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
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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.

22

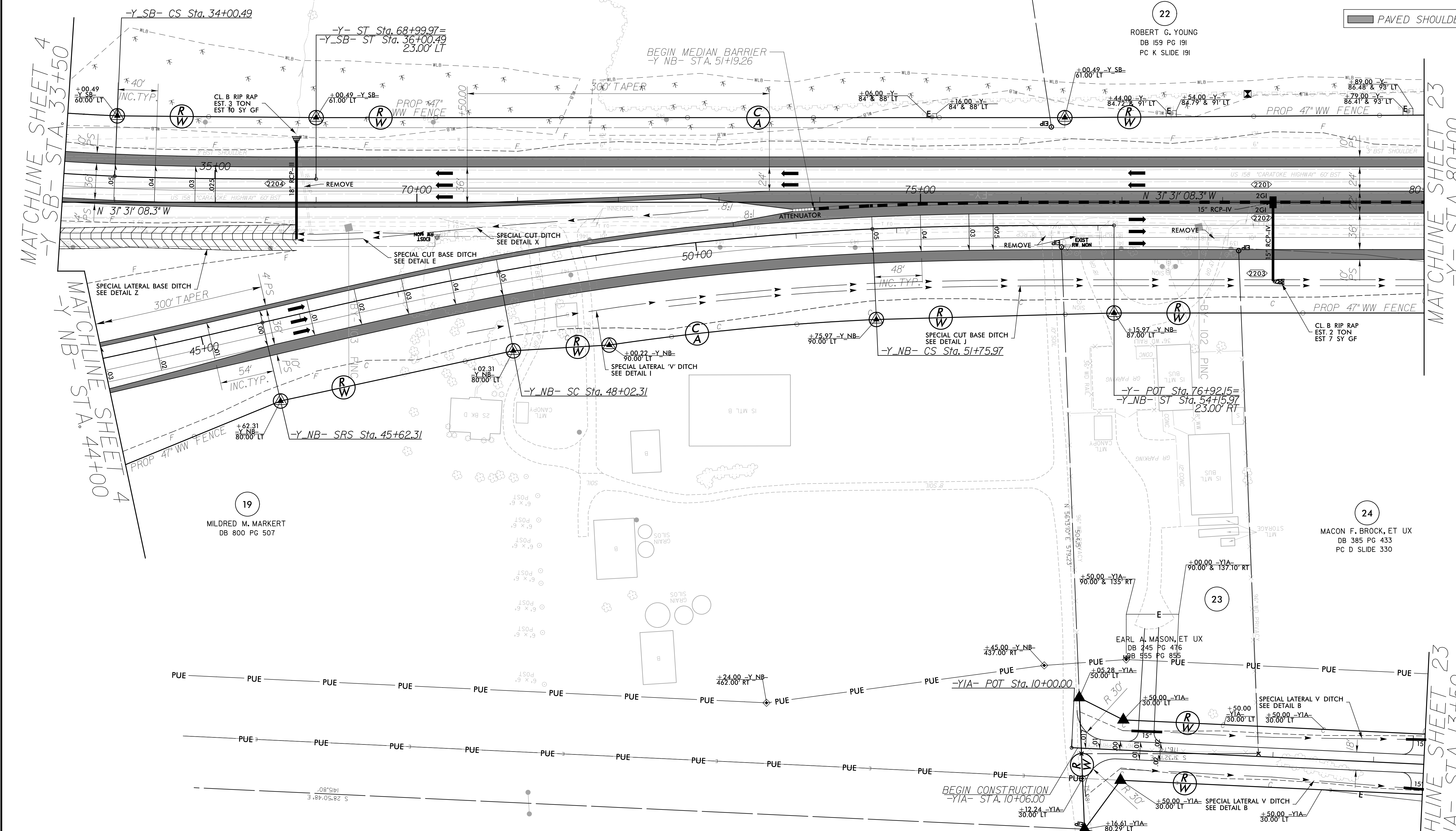
ROADWAY DESIGN
ENGINEER

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
$\theta_s = 2^\circ 32' 47.3"$	$\Delta = 7^\circ 55' 45.6" (RT)$	$\theta_s = 2^\circ 32' 47.3"$
$L_s = 240.00'$	$D = 2^\circ 07' 19.4"$	$L_s = 240.00'$
$LT = 160.02'$	$L = 373.66'$	$LT = 160.02'$
$ST = 80.02'$	$T = 187.13'$	$ST = 80.02'$
	$R = 2,700.00'$	
	$SE = 0.05$	



MATCHLINE SHEET 4
-Y_SB- STA. 33+50

MATCHLINE SHEET 4
-Y_NB- STA. 44+00

MATCHLINE SHEET 23
-Y- STA. 80+00

MATCHLINE SHEET 23
-YIA- STA. 13+50

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_r01_psh22.dgn
C. COCKELEY

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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
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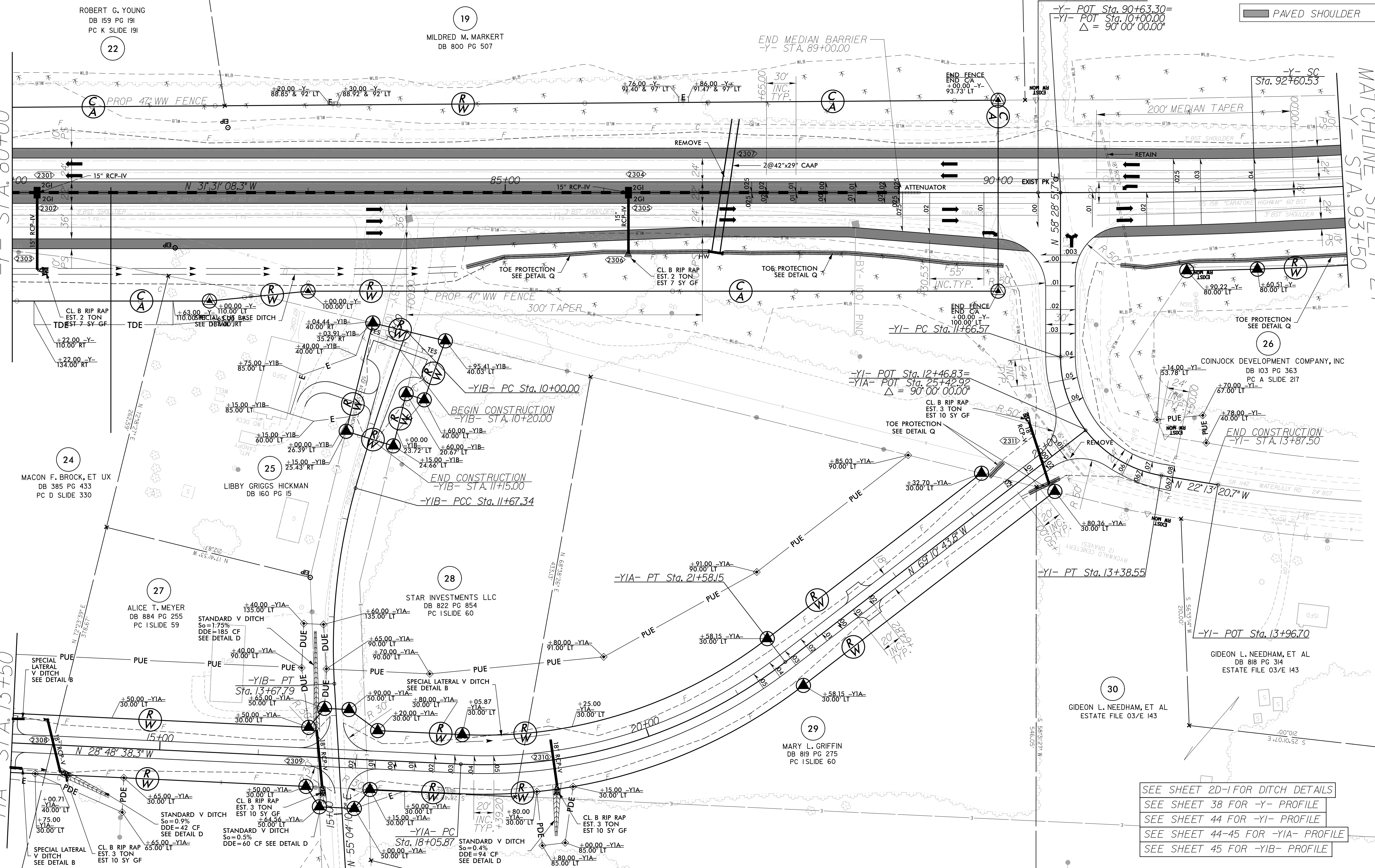
-YI-	-YIA-	-YIB-	-Y-
PI Sta 12+70.31 $\Delta = 80^\circ 42' 12.5" (LT)$ $D = 46' 55" 31.0"$ $L = 171.98'$ $T = 103.74'$ $R = 122.10'$ $SE = 0.06$ $Ro = 124'$	PI Sta 19+89.68 $\Delta = 40^\circ 22' 05.5" (LT)$ $D = 11' 27" 33.0"$ $L = 352.28'$ $T = 183.81'$ $R = 500.00'$ $SE = 0.05$ $Ro = 100'$	PI Sta 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 $\Theta_s = 1^\circ 48' 02.6"$ $\Delta = 10^\circ 16' 13.8" (LT)$ $D = 1^\circ 38' 13.3"$ $L = 627.39'$ $T = 314.54'$ $R = 3,500.00'$ $SE = 0.04$	PIs Sta 99+61.26 $\Theta_s = 1^\circ 48' 02.6"$ $\Delta = 220.00'$ $L = 146.67'$ $T = 73.34'$ $R = 220.00'$		



MATCHLINE SHEET 22
-Y- STA. 80+00

MATCHLINE SHEET 22
-YIA- STA. 13+50

MATCHLINE SHEET 24
-Y- STA. 93+50



SEE SHEET 2D-1 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
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CLOKLEY

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Number F-0159



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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.

24

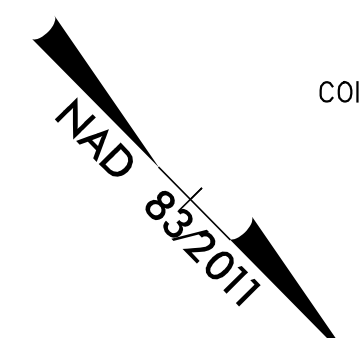
ROADWAY DESIGN
ENGINEER

PAVEMENT DESIGN
ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

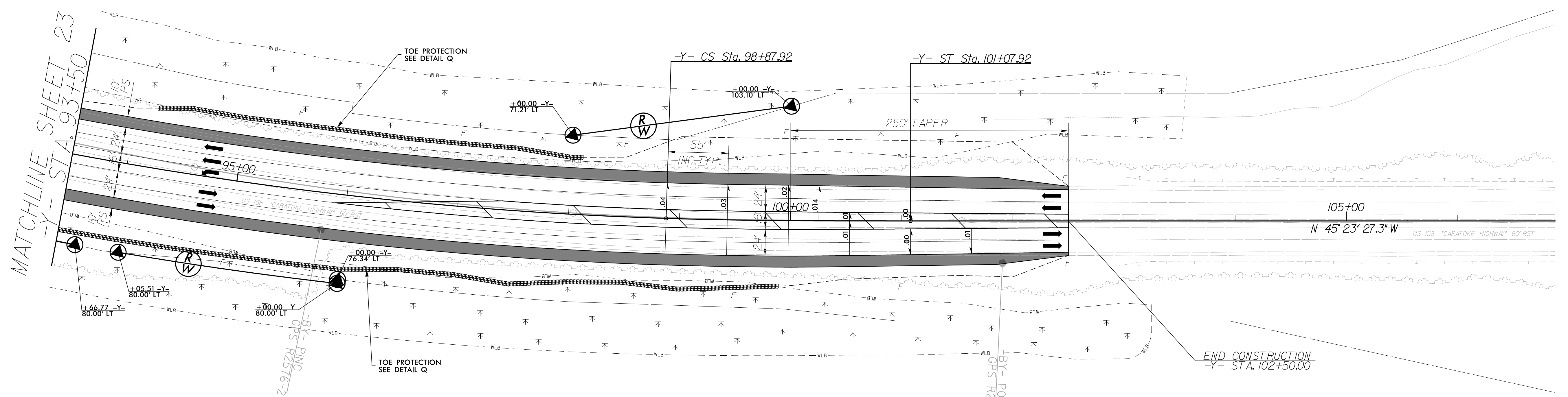
-Y-		
PIs Sta 91+87.20	PI Sta 95+75.07	PIs Sta 99+61.26
$\Theta_s = 1^{\circ}48'02.6''$	$\Delta = 10^{\circ}16'13.8''$ (LT)	$\Theta_s = 1^{\circ}48'02.6''$
$L_s = 220.00'$	$D = 1^{\circ}38'13.3''$	$L_s = 220.00'$
$LT = 146.67'$	$L = 627.39'$	$LT = 146.67'$
$ST = 73.34'$	$T = 314.54'$	$ST = 73.34'$
	$R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



26

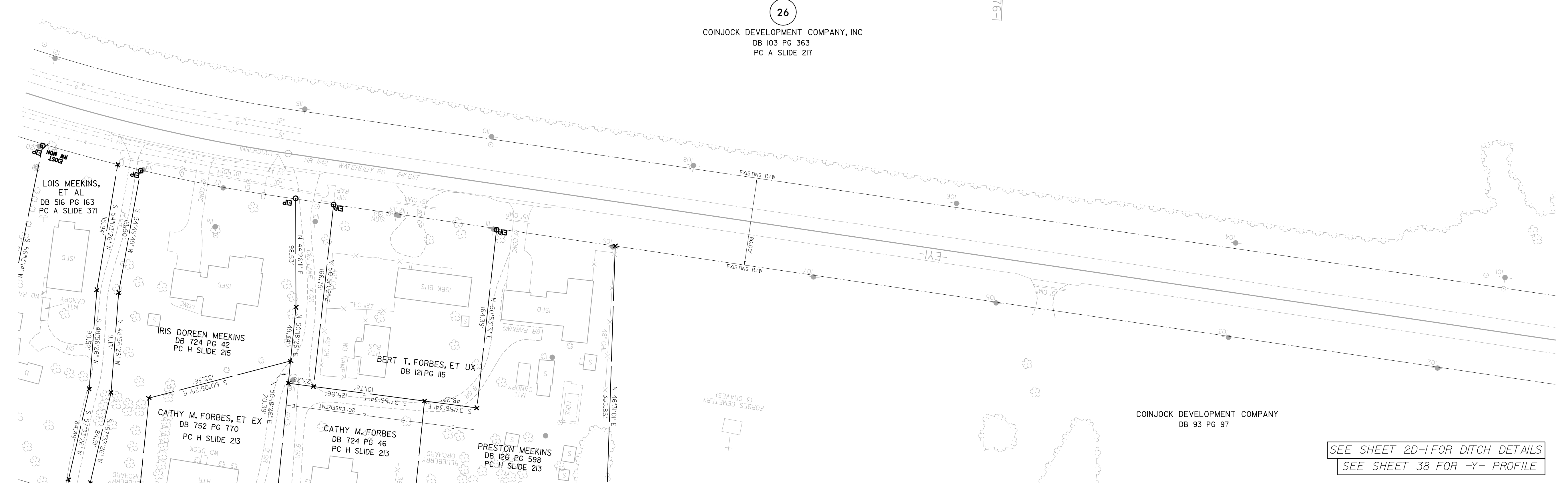
COINJOCK DEVELOPMENT COMPANY, INC
DB 103 PG 363
PC A SLIDE 217

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

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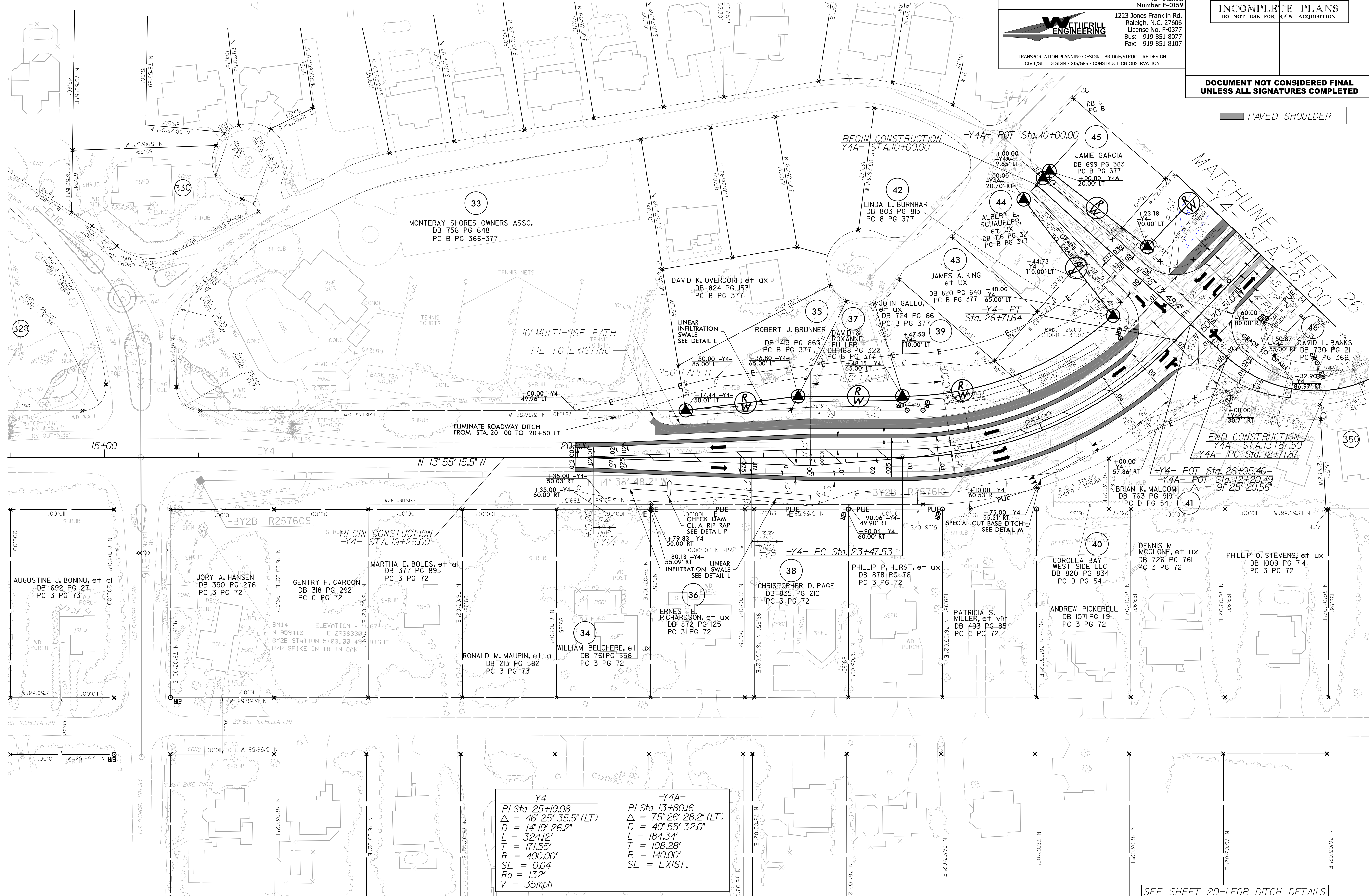
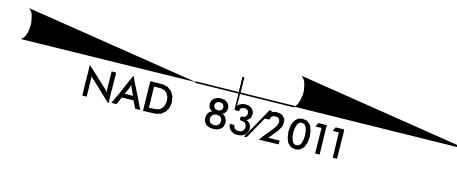
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

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

ROADWAY DESIGN ENGINEER
PAVEMENT DESIGN ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

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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

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R2576-01-psh25.dgn
C. COCKLEY

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Fax: 919 851 8107

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

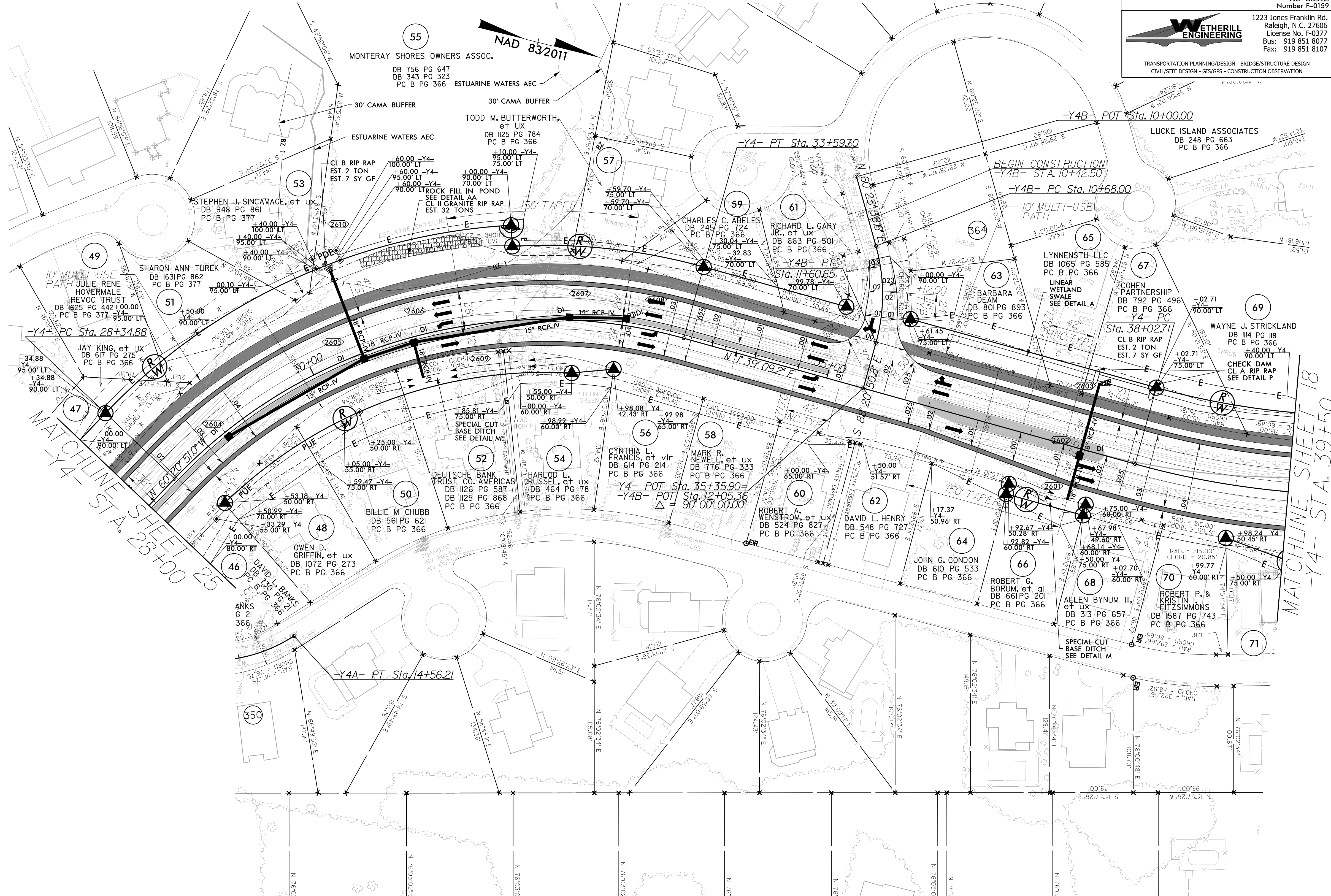
PROJECT REFERENCE NO. **R-2576** SHEET NO. **26**

ROADWAY DESIGN ENGINEER
PAVEMENT DESIGN ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

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PAVED SHOULDER



-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

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

PROJECT REFERENCE NO. **R-2576** SHEET NO. **27**

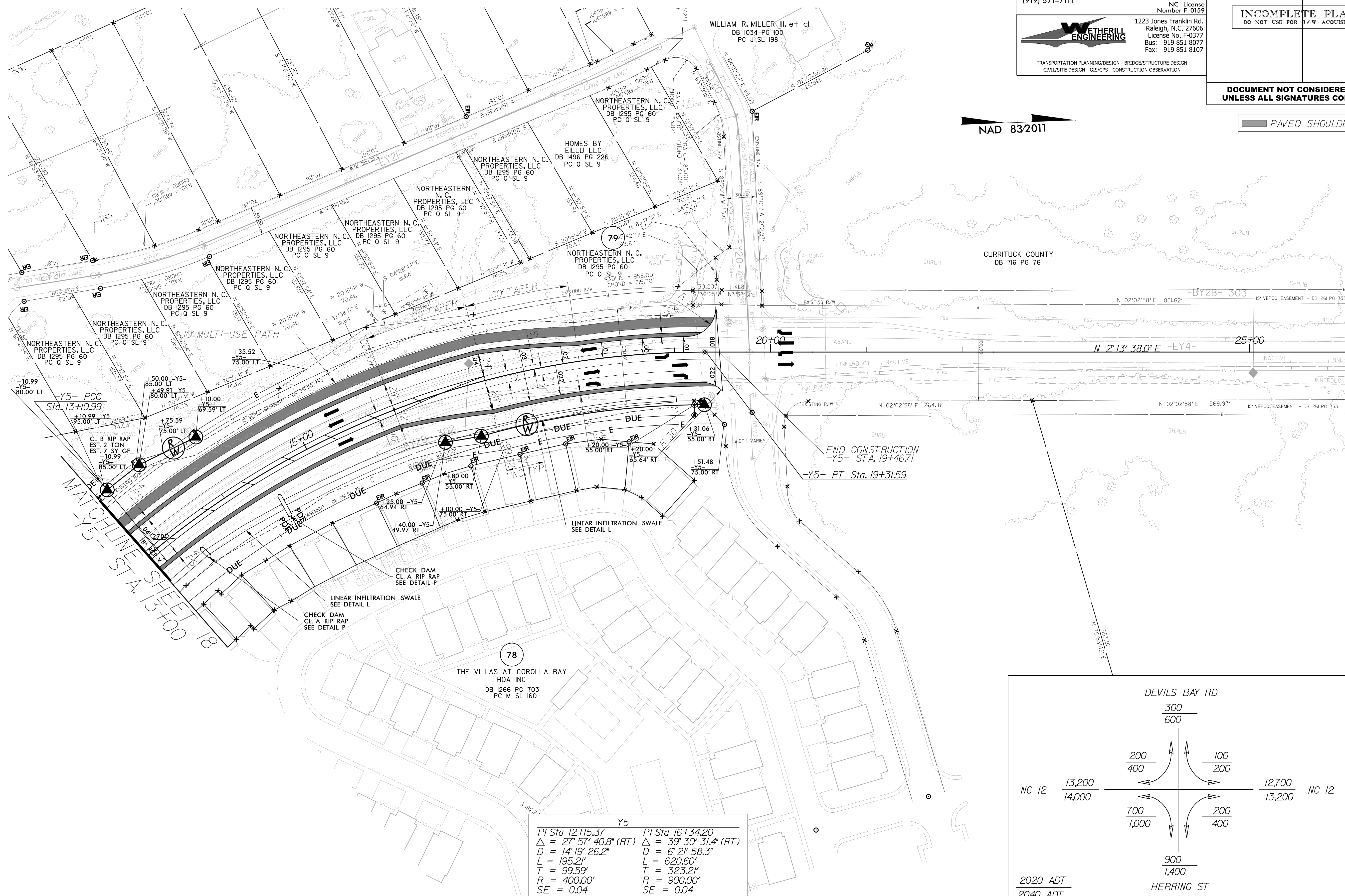
ROADWAY DESIGN ENGINEER
PAVEMENT DESIGN ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL
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PAVED SHOULDER

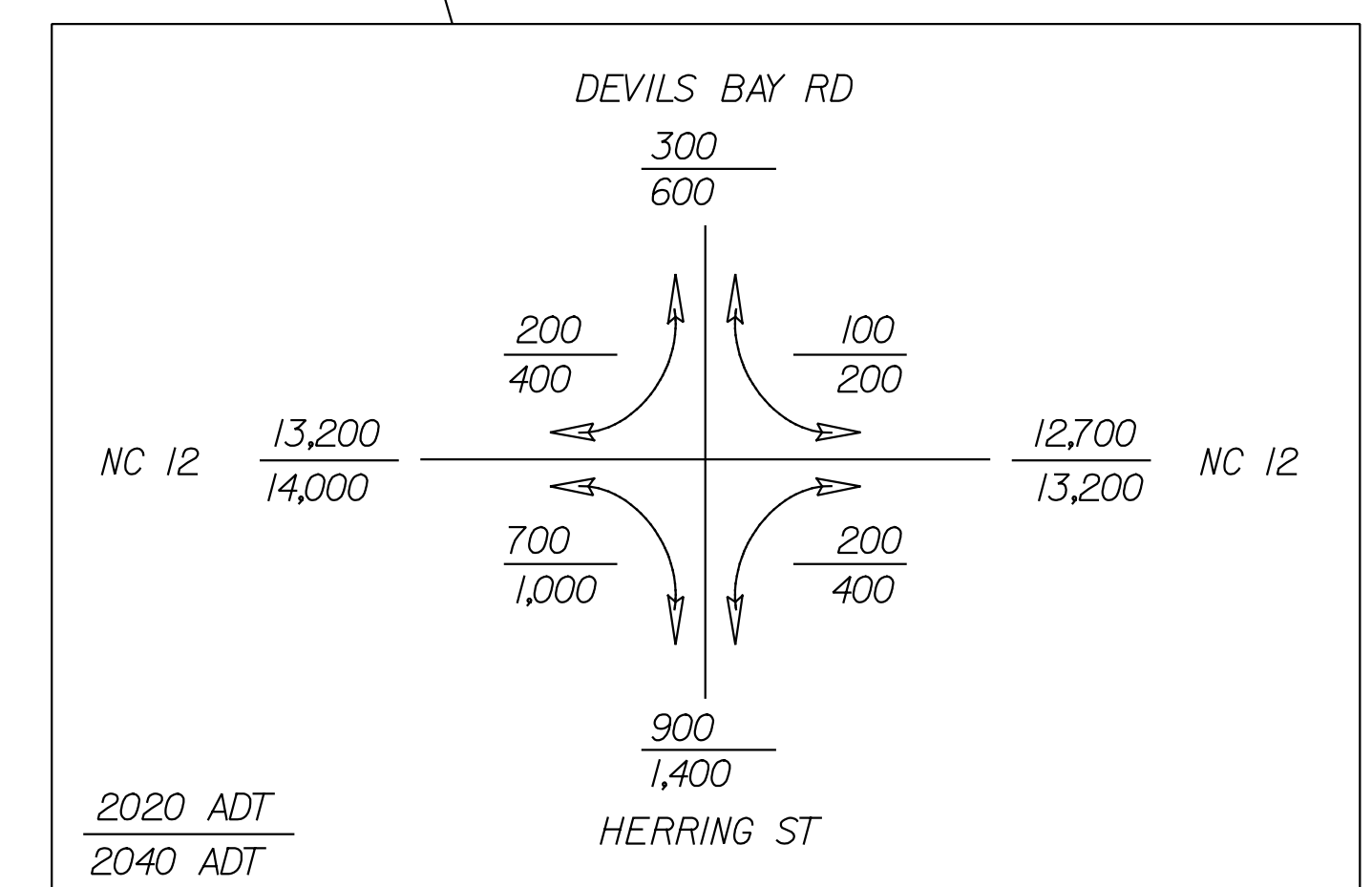
NAD 83/2011



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

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

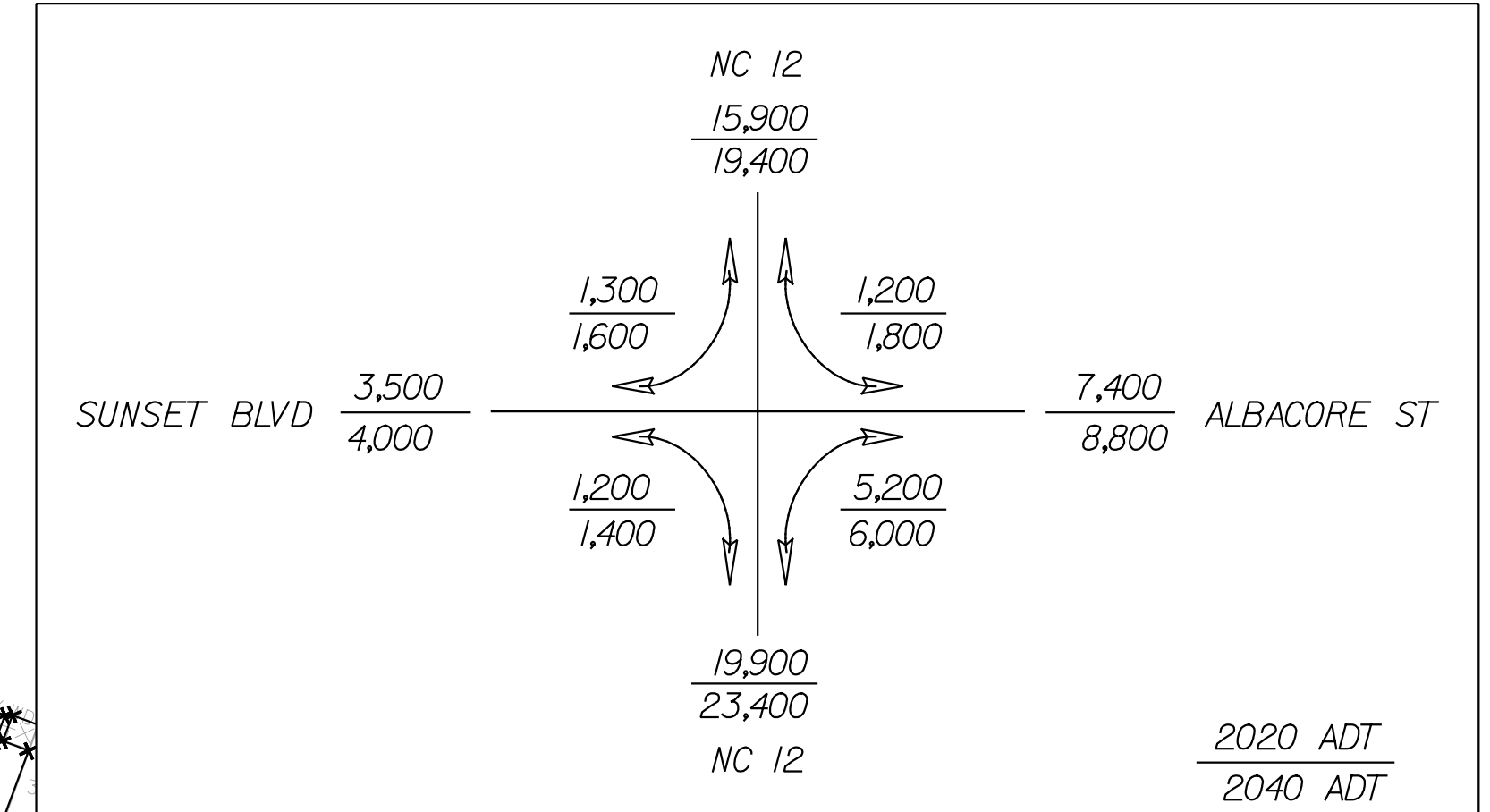
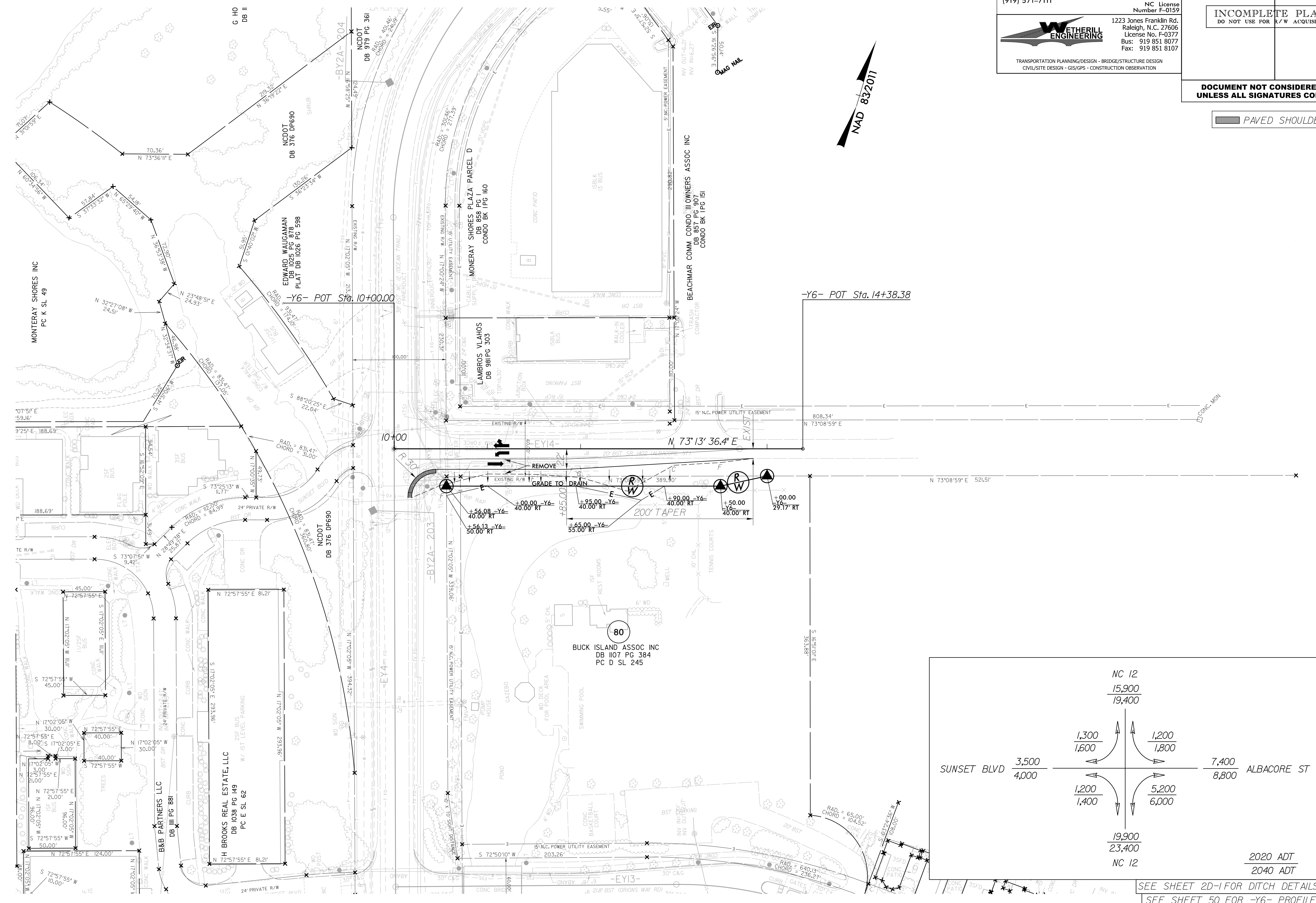
PROJECT REFERENCE NO. **R-2576** SHEET NO. **28**

ROADWAY DESIGN ENGINEER
PAVEMENT DESIGN ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

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PAVED SHOULDER



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

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CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

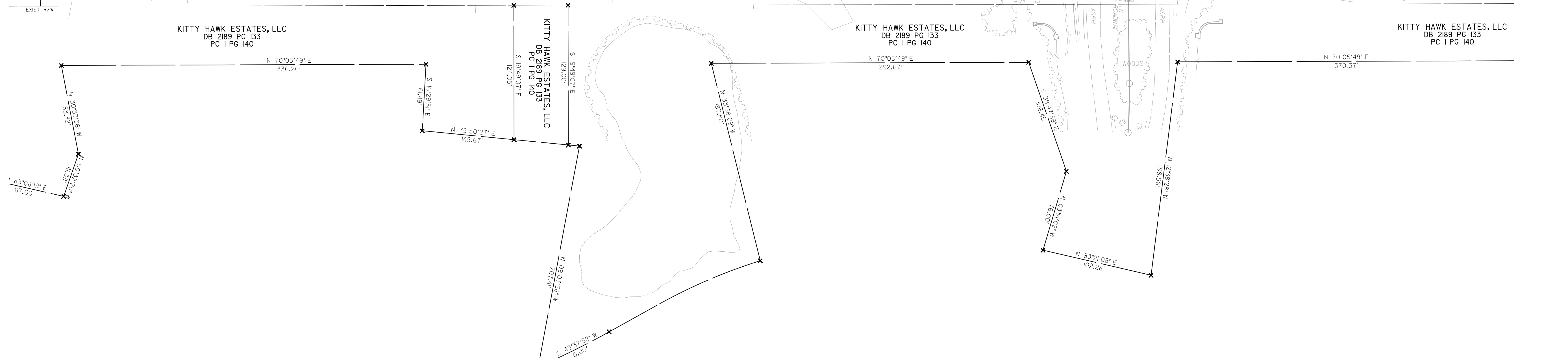
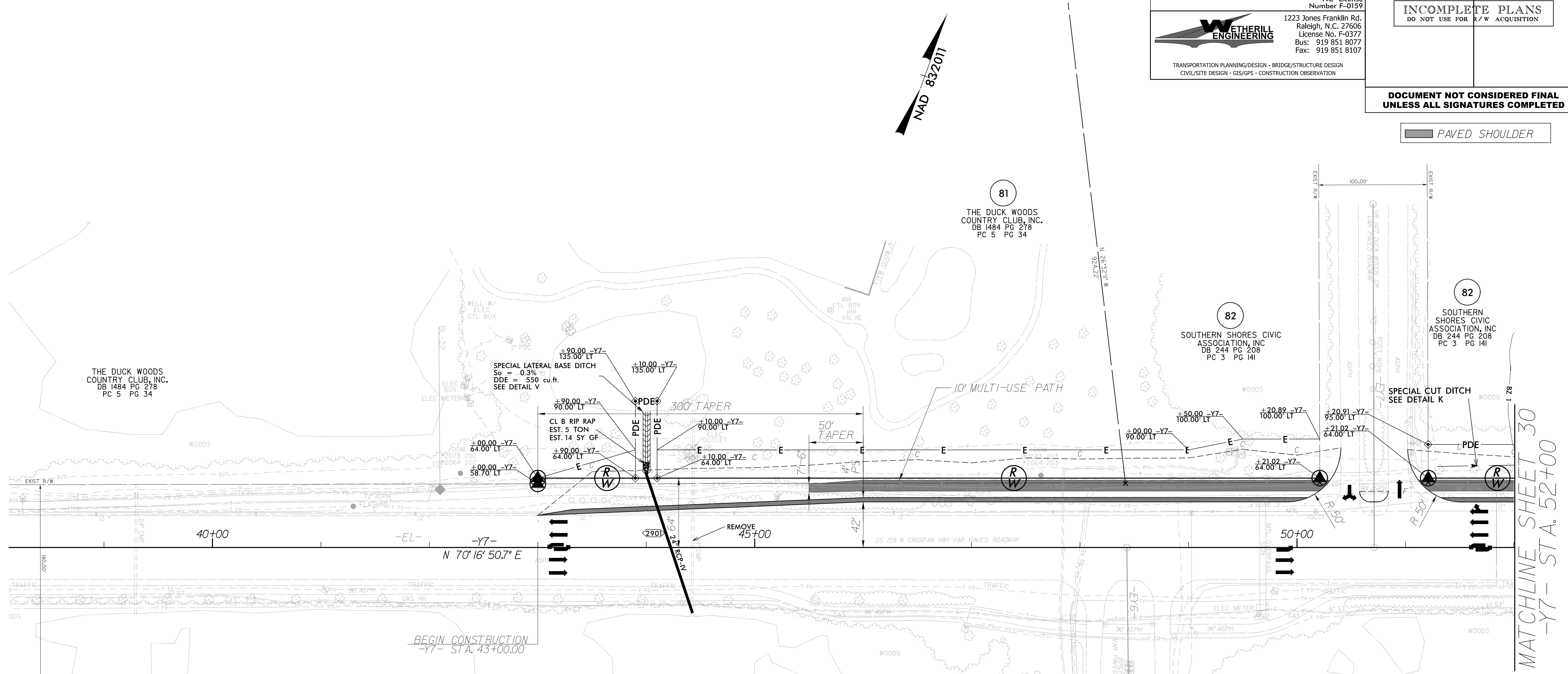
PROJECT REFERENCE NO. **R-2576** SHEET NO. **29**

ROADWAY DESIGN ENGINEER PAVEMENT DESIGN ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

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PAVED SHOULDER



MATCHLINE SHEET 30
-Y7- STA. 52+00

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

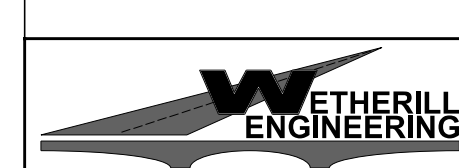
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RGS
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6/2/2024

6/17/2024
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CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. **R-2576** SHEET NO. **30**

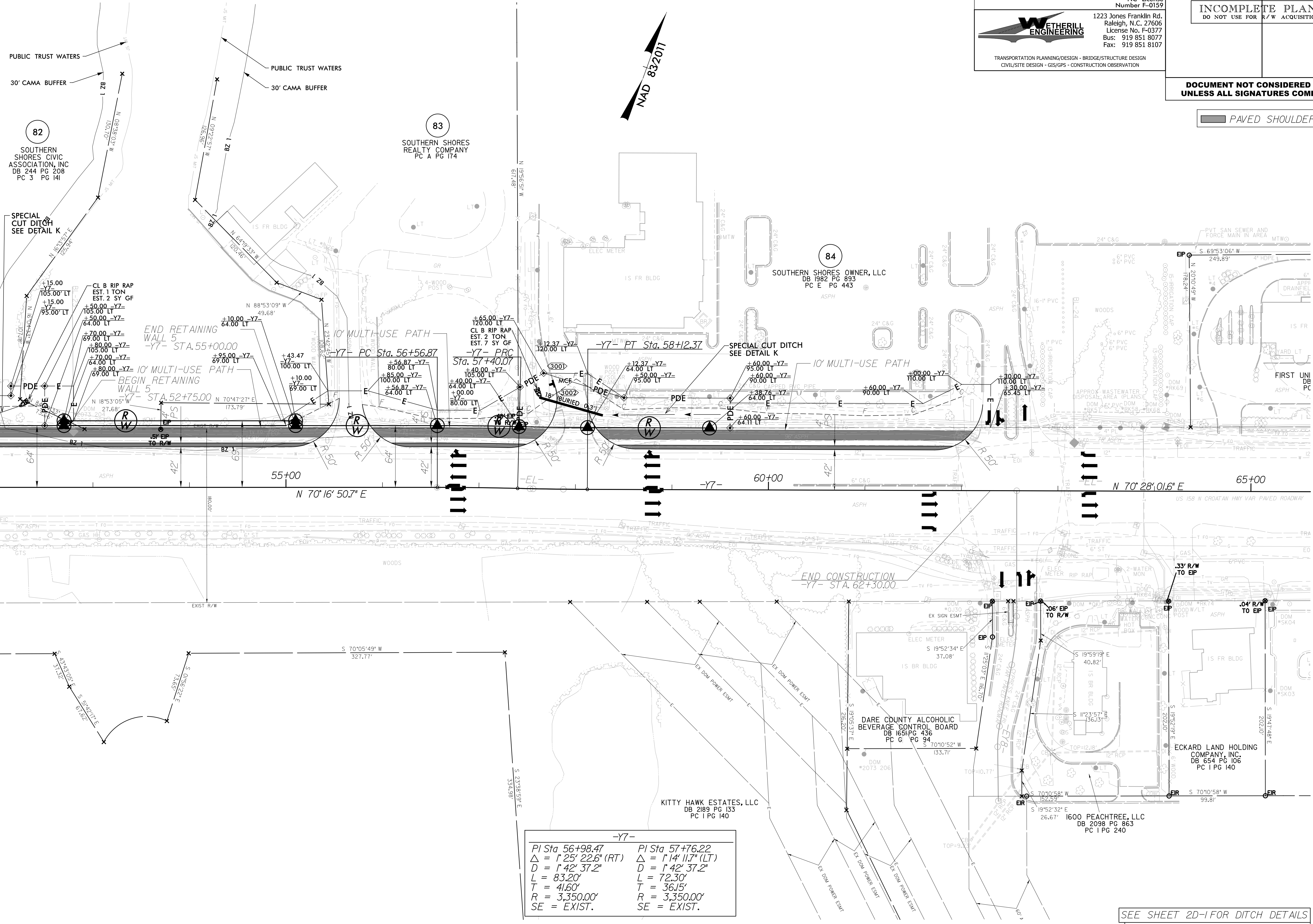
ROADWAY DESIGN ENGINEER
PAVEMENT DESIGN ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

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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

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CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.

R-2576

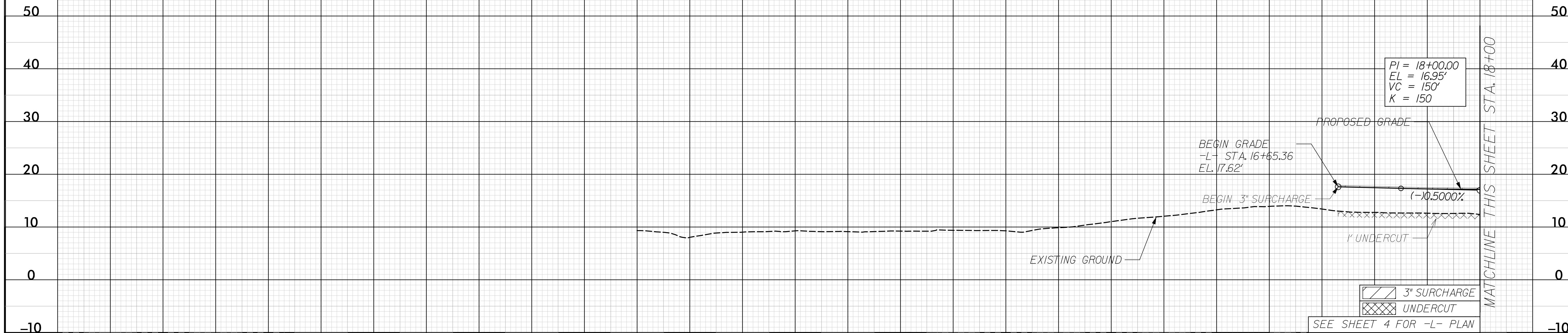
SHEET NO.

31

ROADWAY DESIGN
ENGINEER

HYDRAULICS
ENGINEER

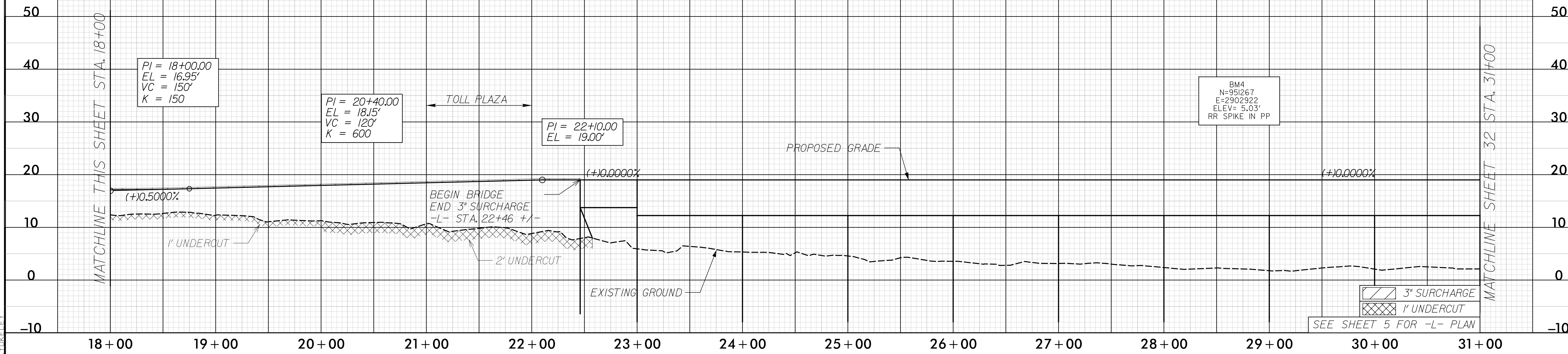
**DOCUMENT NOT CONSIDERED FINAL
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17+00 18+00

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MATCHLINE THIS SHEET STA. 18+00

MATCHLINE SHEET 32 STA. 31+00

18+00 19+00 20+00 21+00 22+00 23+00 24+00 25+00 26+00 27+00 28+00 29+00 30+00 31+00

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CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.

R-2576

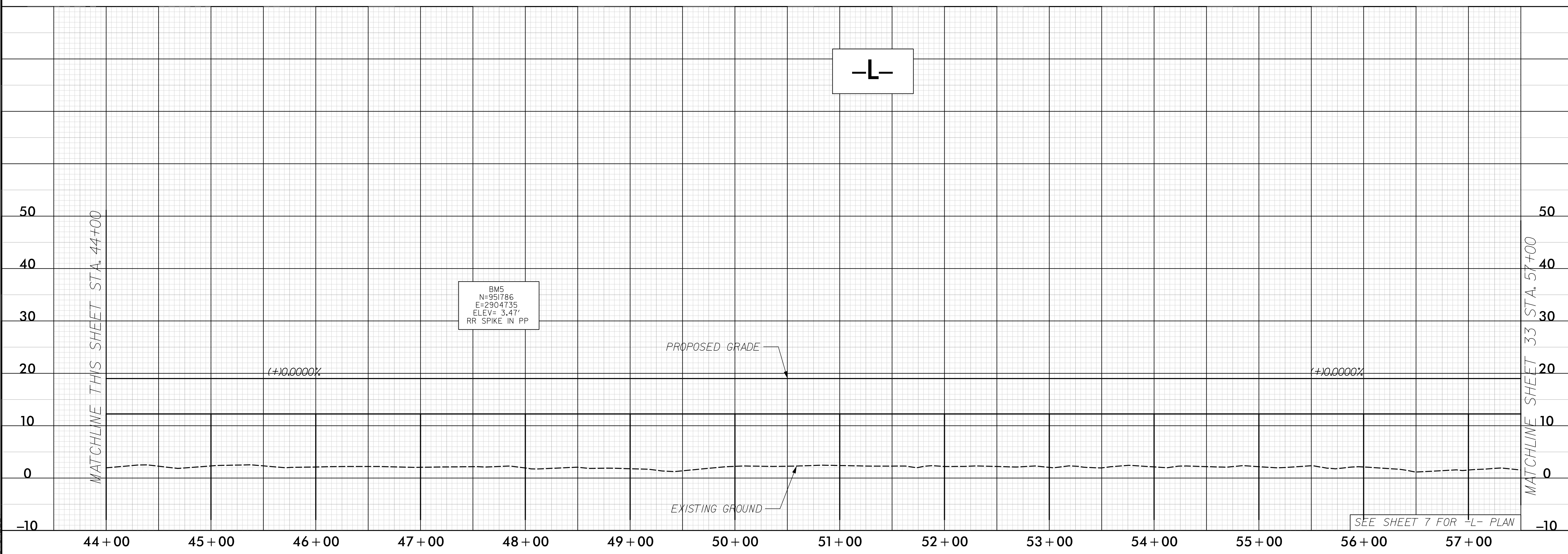
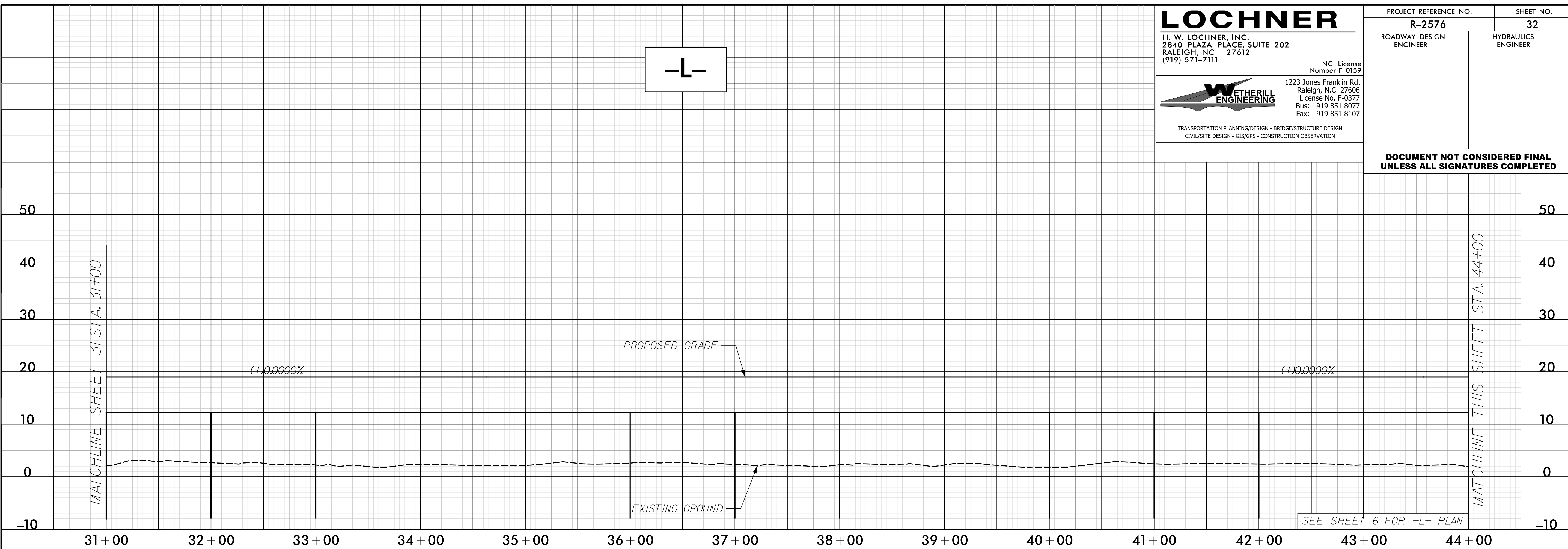
SHEET NO.

32

ROADWAY DESIGN
ENGINEER

HYDRAULICS
ENGINEER

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CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.

R-2576

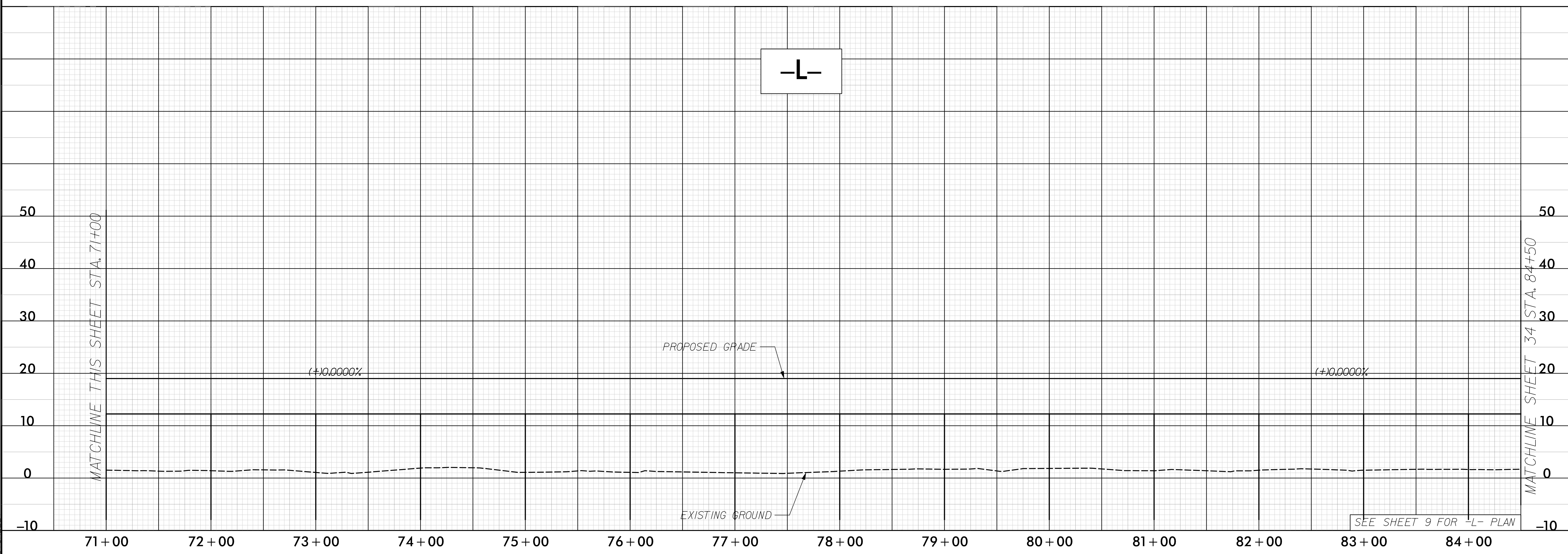
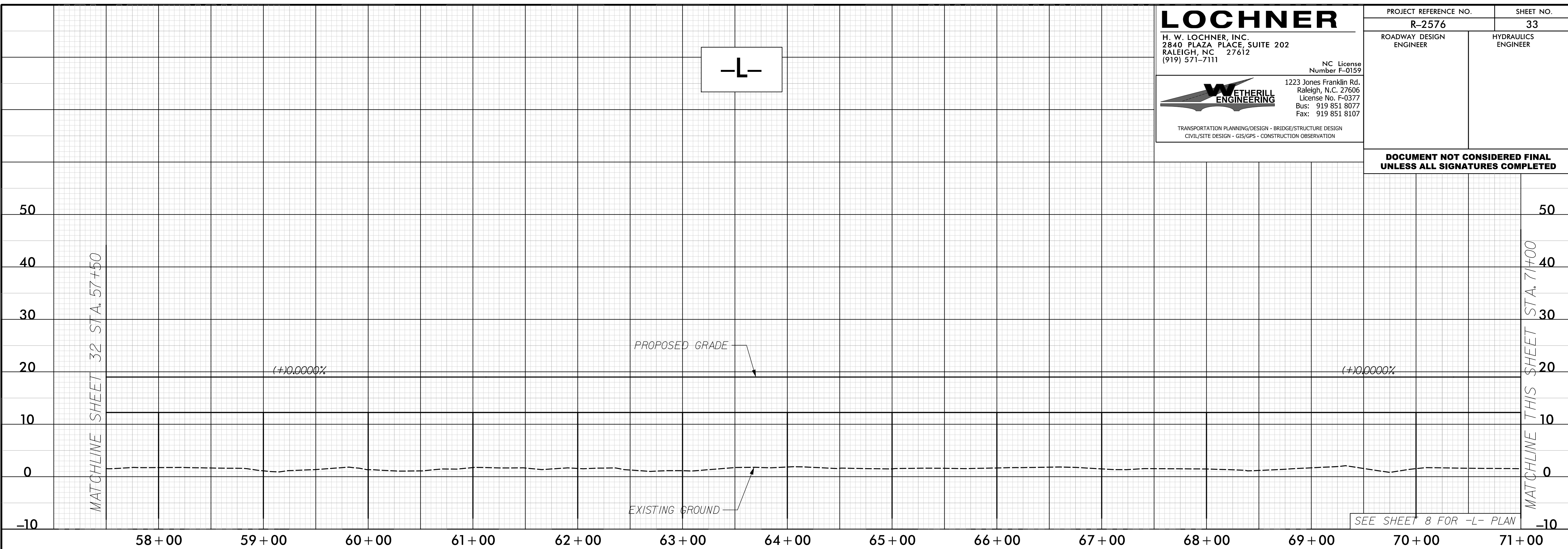
SHEET NO.

33

ROADWAY DESIGN
ENGINEER

HYDRAULICS
ENGINEER

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CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.

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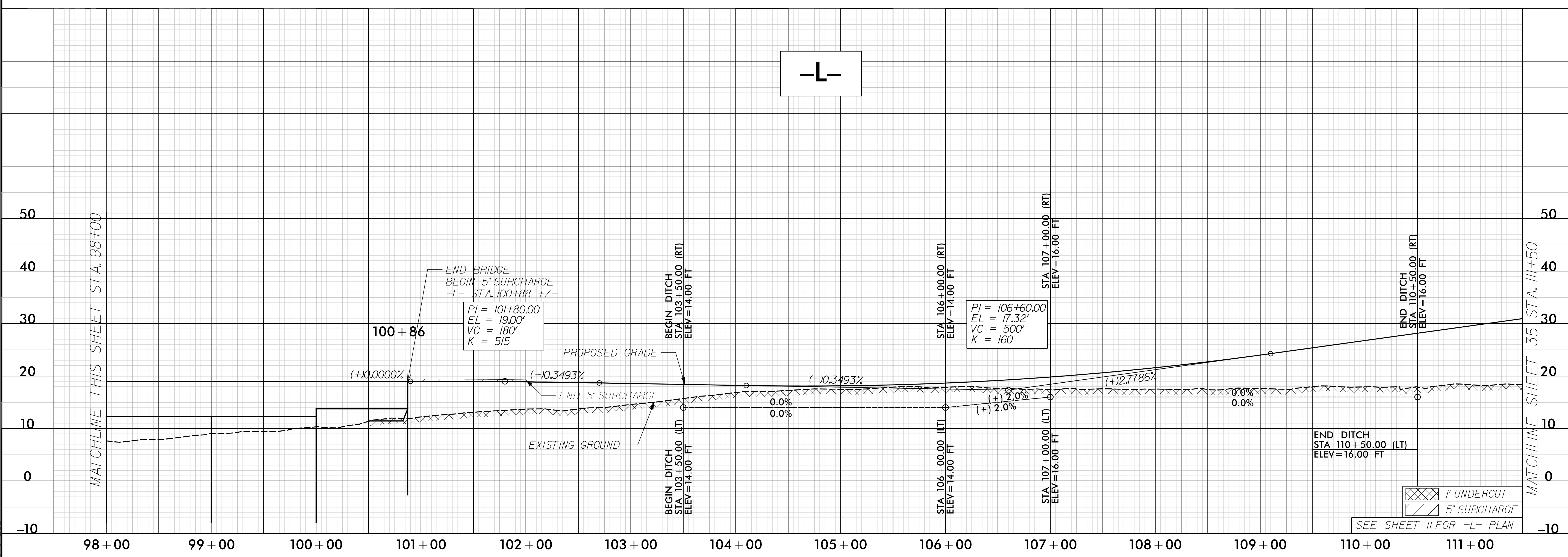
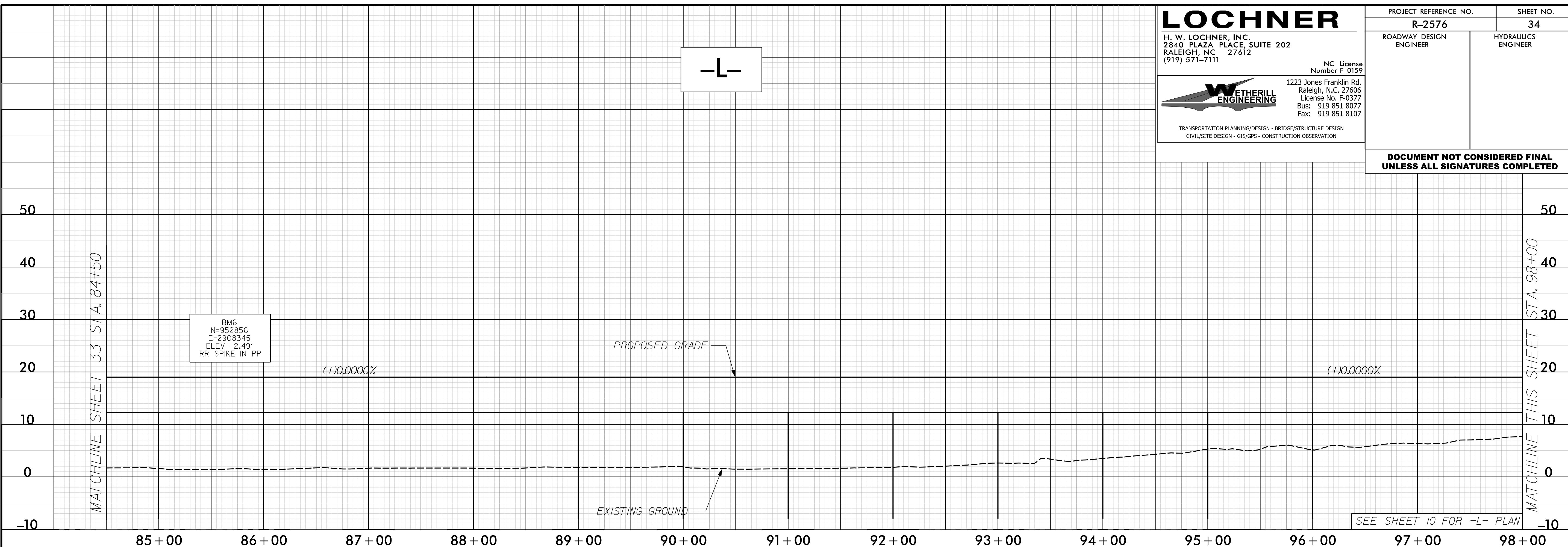
SHEET NO.

34

ROADWAY DESIGN
ENGINEER

HYDRAULICS
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35

ROADWAY DESIGN
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HYDRAULICS
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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-

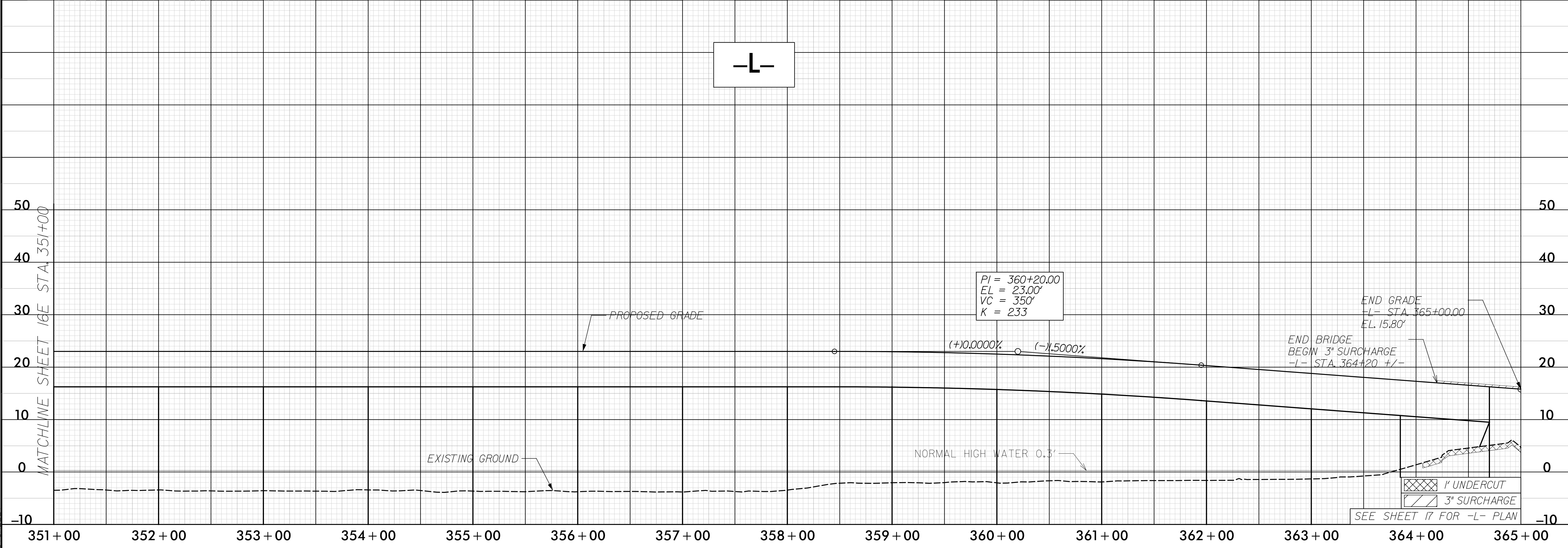
CL -Y3-
NARROW SHORE RD.

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

PROJECT REFERENCE NO.

R-2576

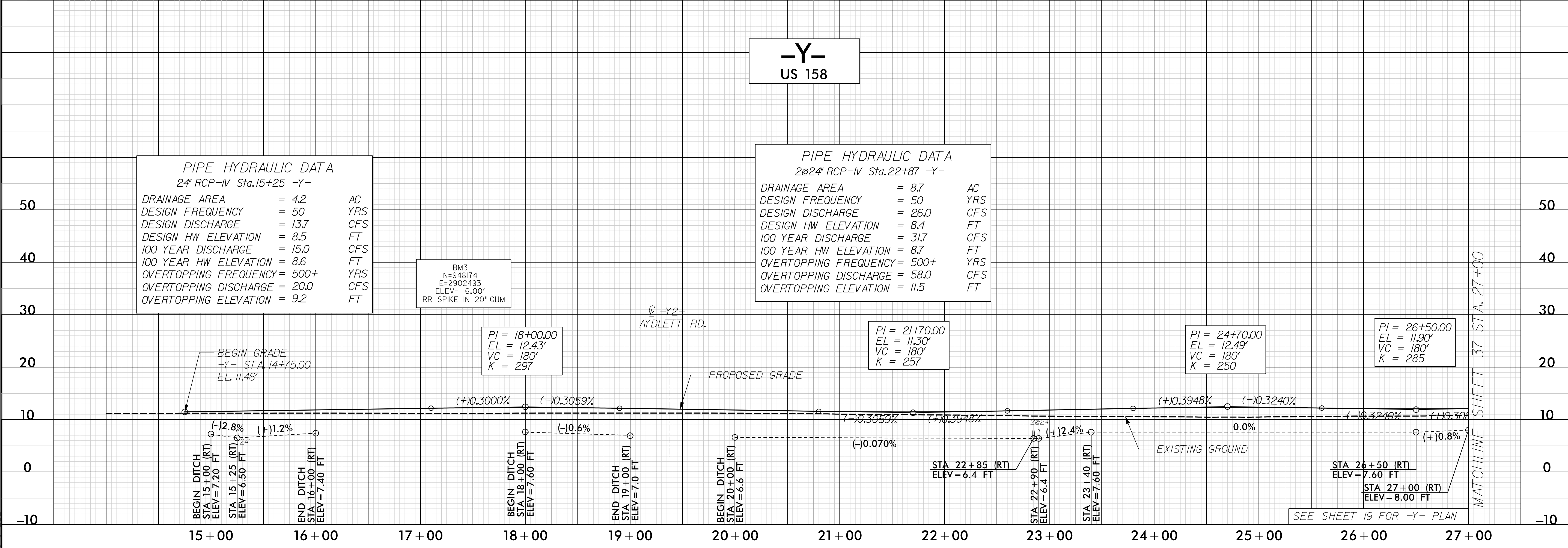
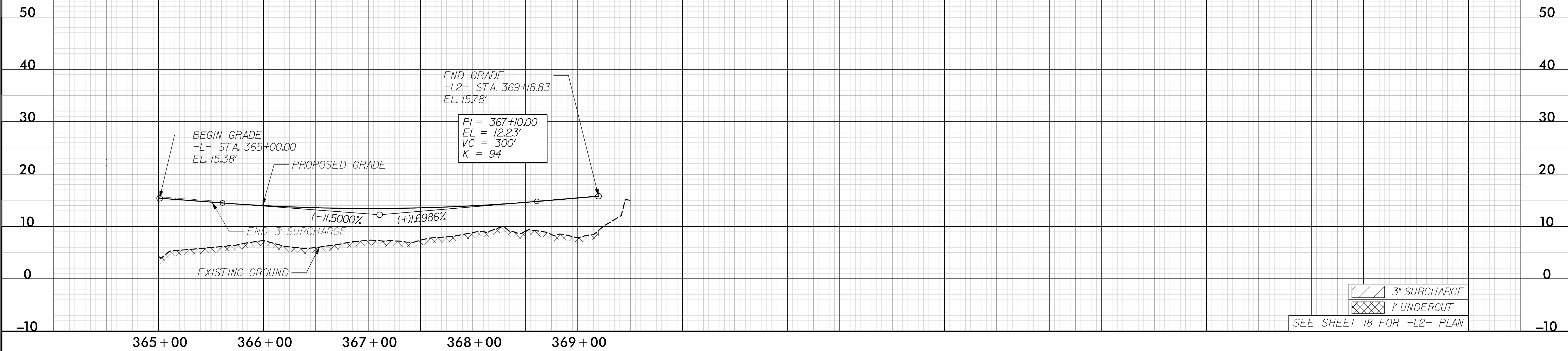
SHEET NO.

36

ROADWAY DESIGN
ENGINEER

HYDRAULICS
ENGINEER

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CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.

R-2576

SHEET NO.

37

ROADWAY DESIGN
ENGINEER

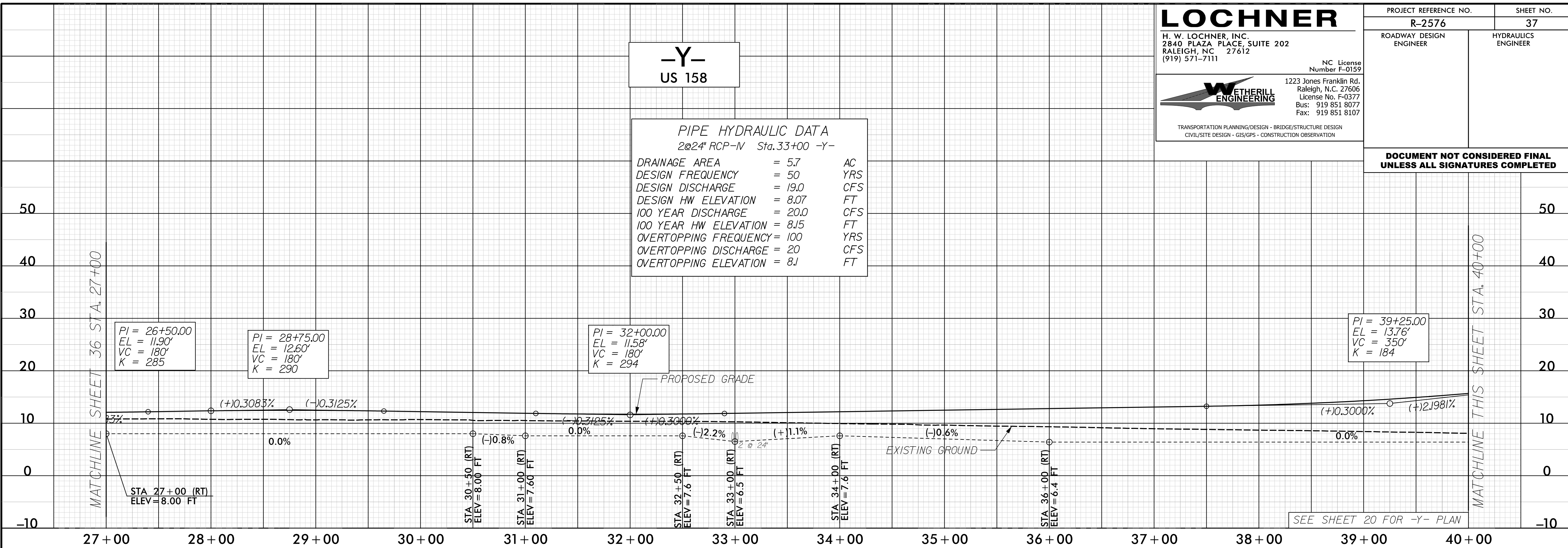
HYDRAULICS
ENGINEER

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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



-Y-
US 158

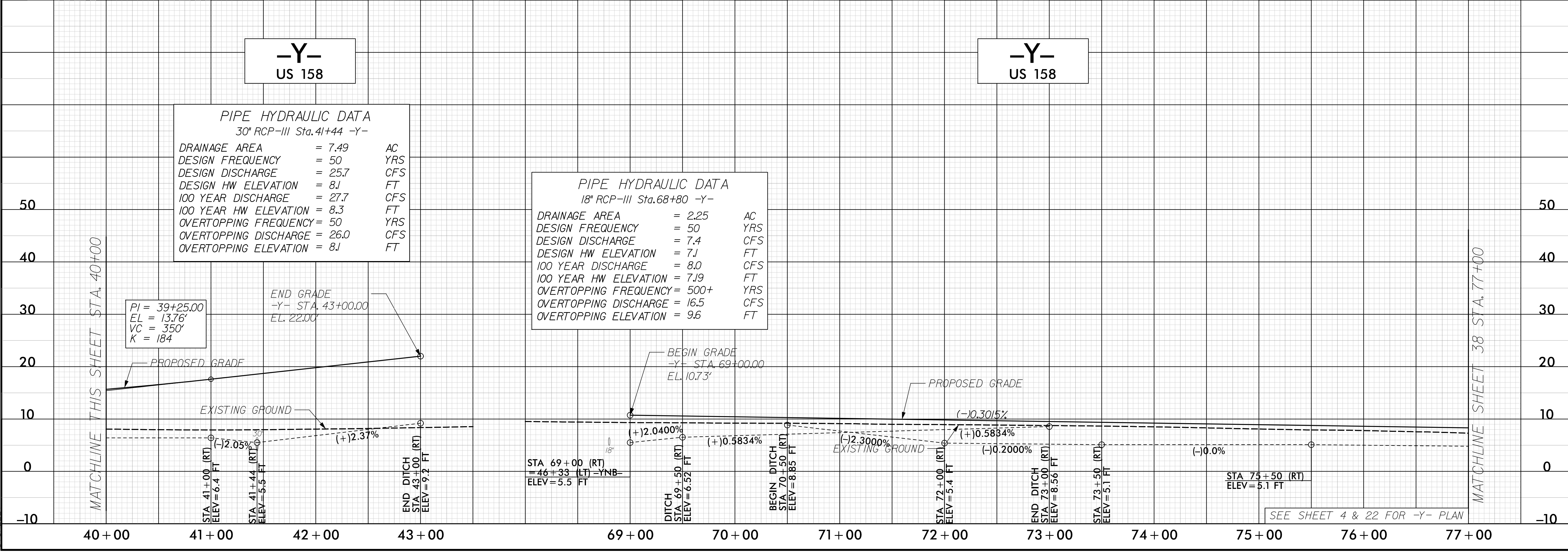
-Y-
US 158

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



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CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.

R-2576

SHEET NO.

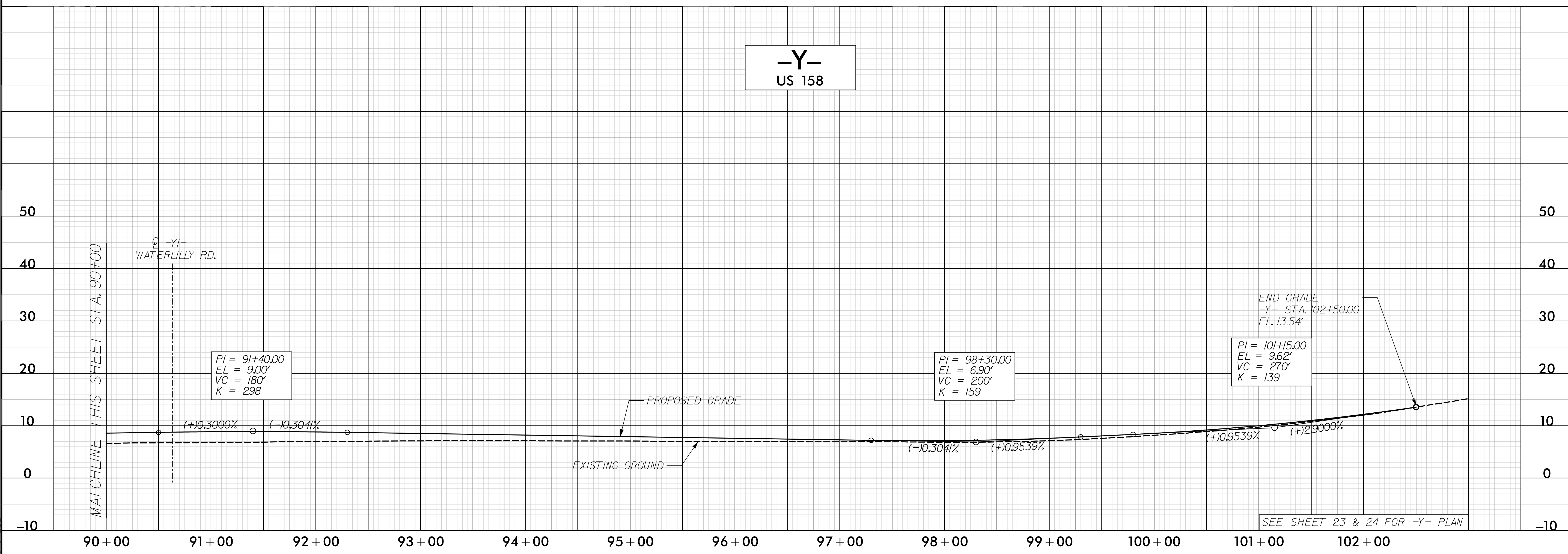
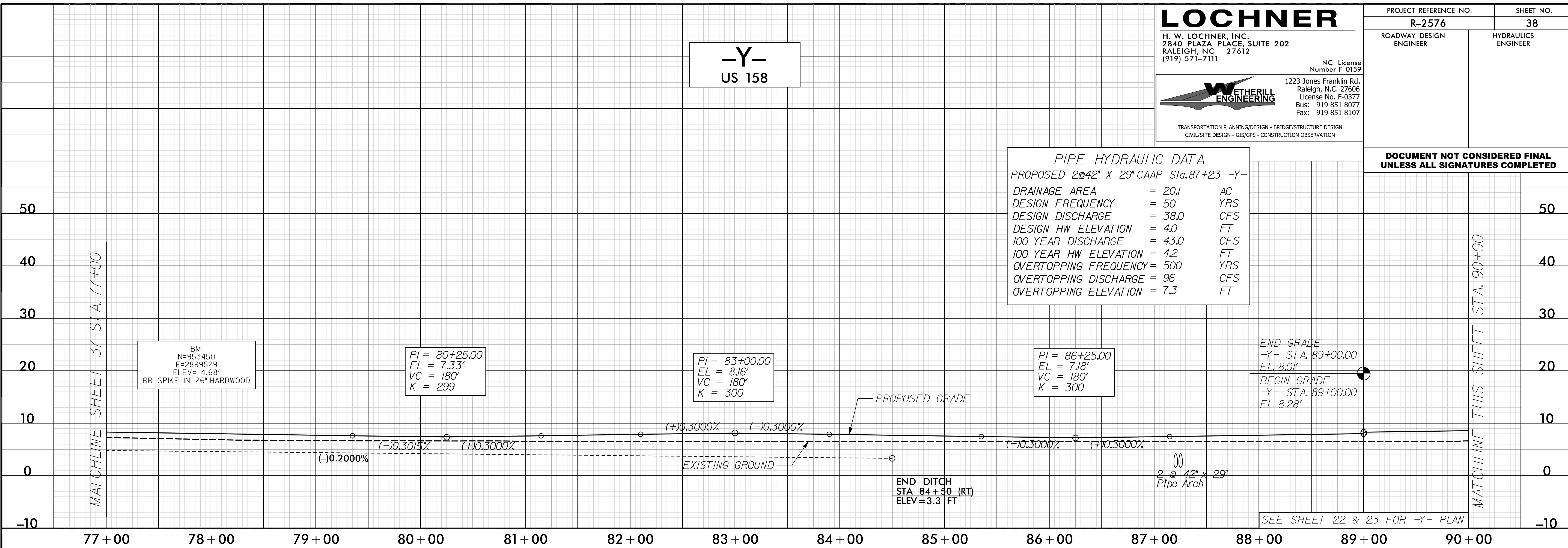
38

ROADWAY DESIGN
ENGINEER

HYDRAULICS
ENGINEER

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

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



6/17/2024
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CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.

R-2576

SHEET NO.

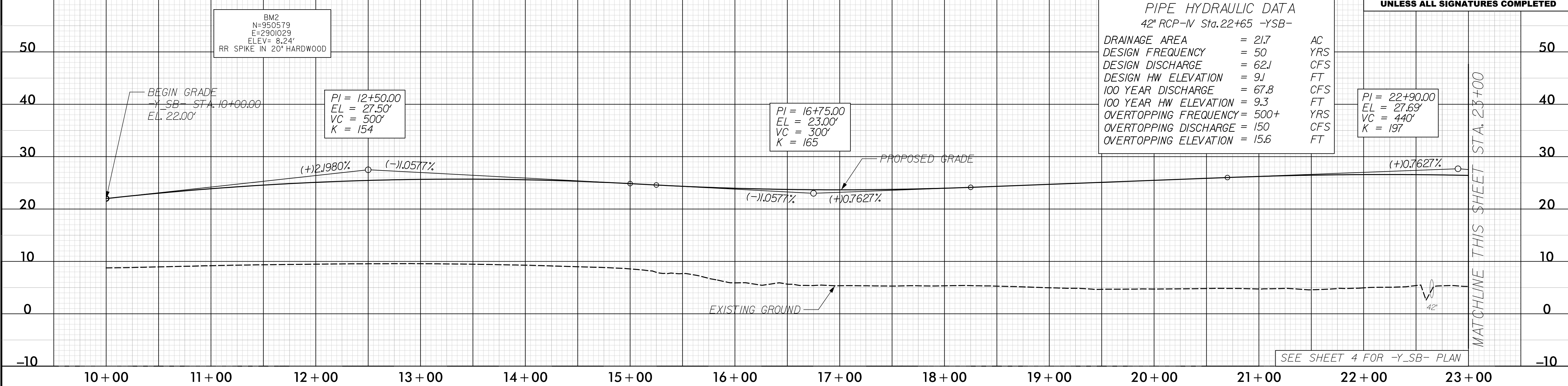
39

ROADWAY DESIGN
ENGINEER

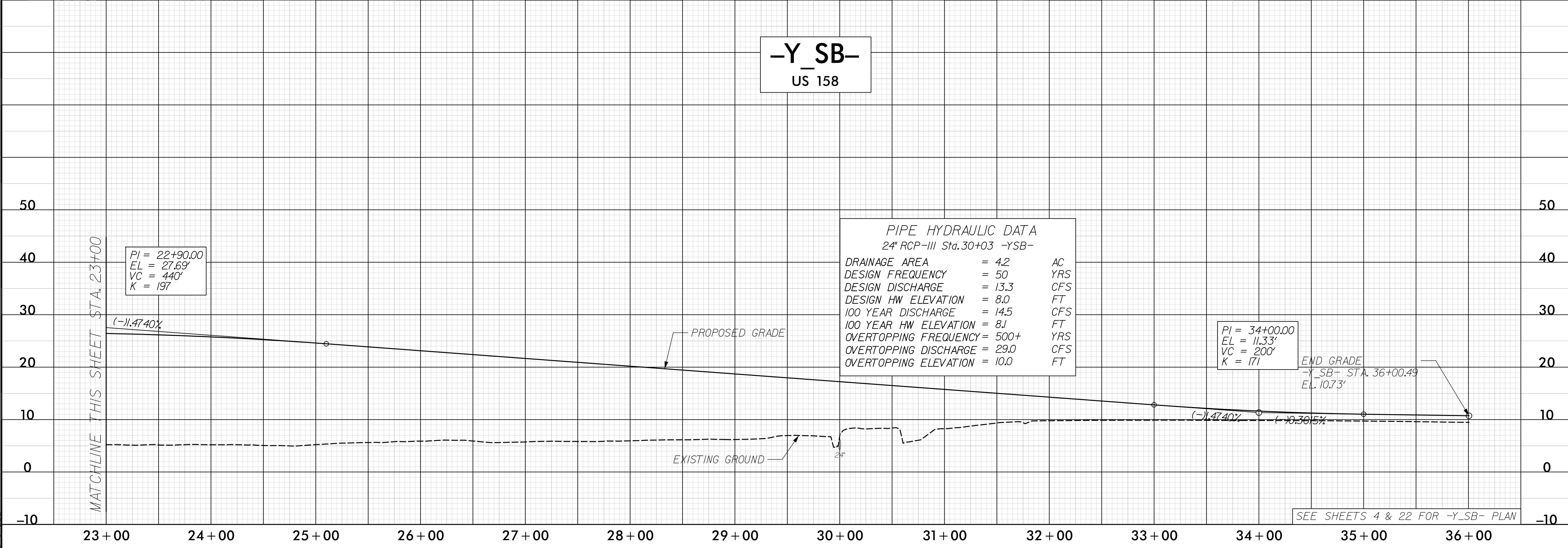
HYDRAULICS
ENGINEER

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-Y_SB- US 158



-Y_SB- US 158



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R-2576-Road-Plan-39.dgn
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1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107

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ENGINEERING

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

PROJECT REFERENCE NO.

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SHEET NO.

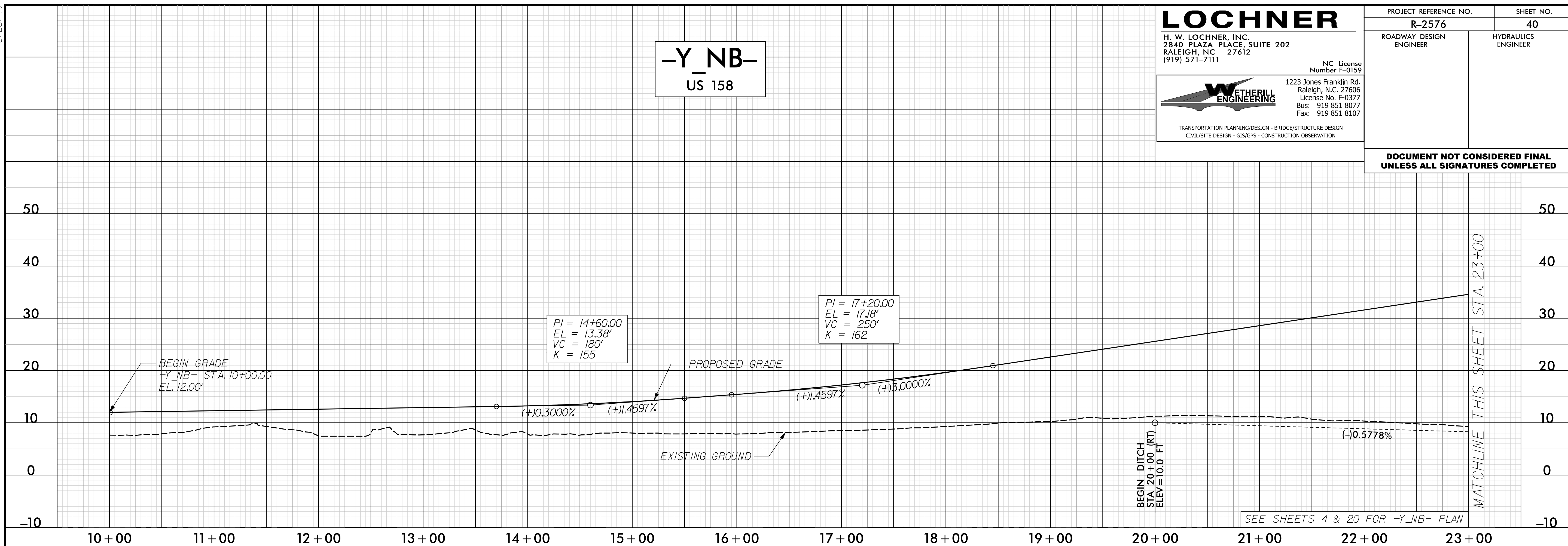
40

ROADWAY DESIGN
ENGINEER

HYDRAULICS
ENGINEER

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-Y_NB- US 158



SEE SHEETS 4 & 20 FOR -Y_NB- PLAN

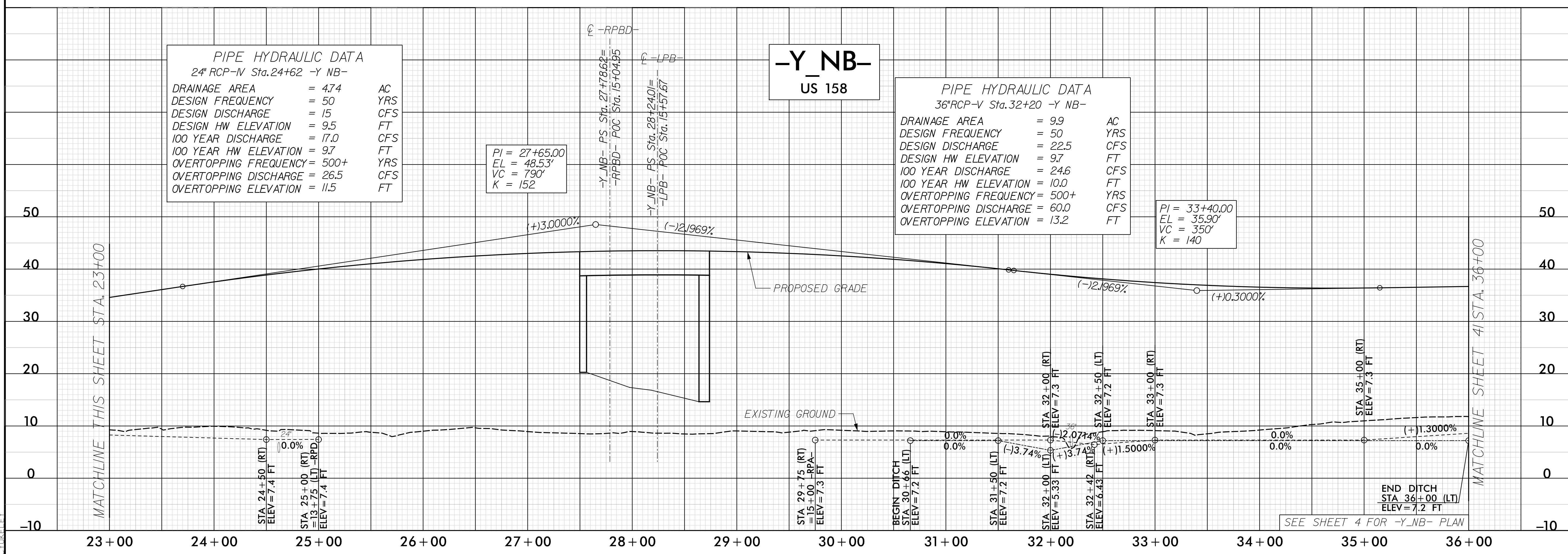
PIPE HYDRAULIC DATA
24" RCP-V Sta. 24+62 -Y NB-

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



SEE SHEET 4 FOR -Y_NB- PLAN

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SHEET NO.

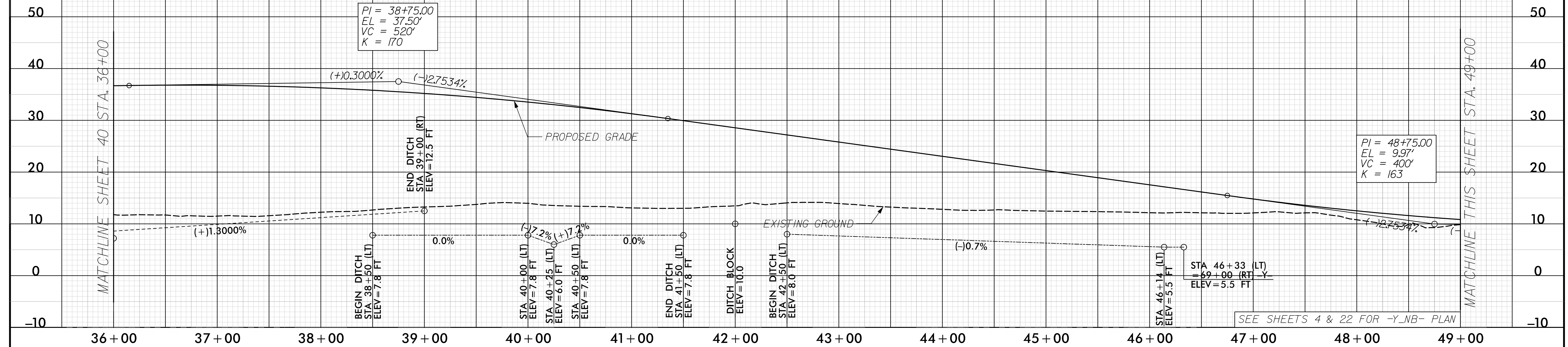
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ROADWAY DESIGN
ENGINEER

HYDRAULICS
ENGINEER

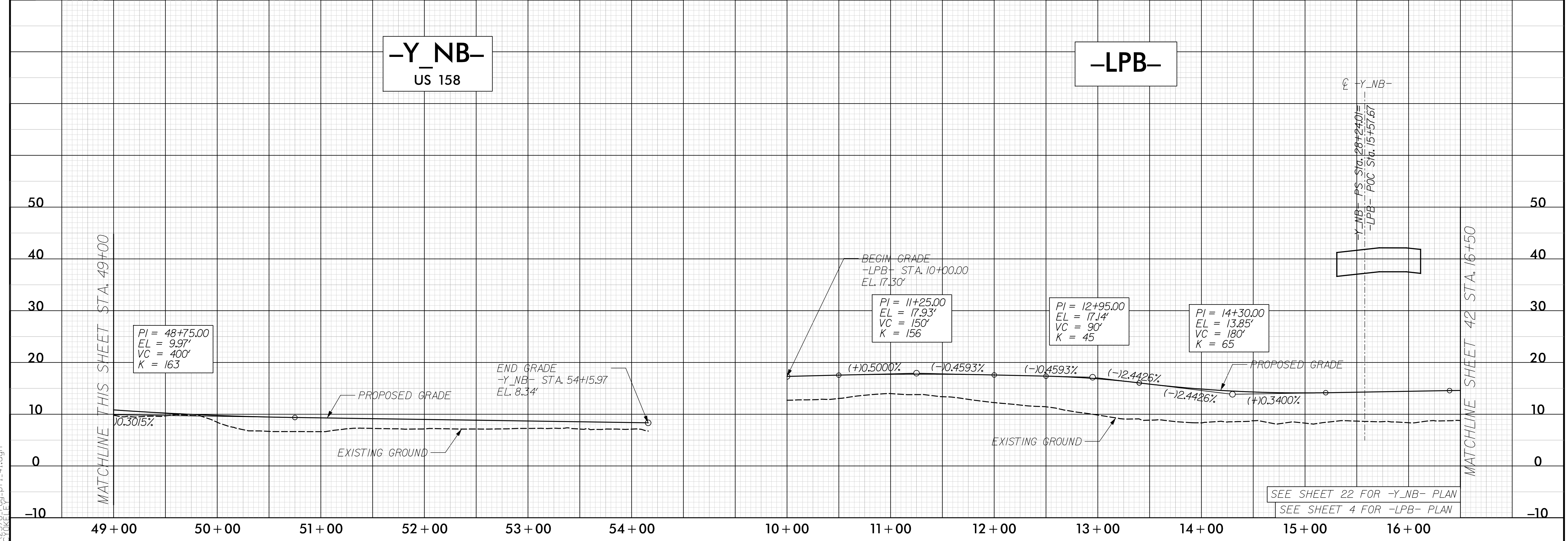
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-Y_NB- US 158



-Y_NB- US 158

-LPB-



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CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.

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SHEET NO.

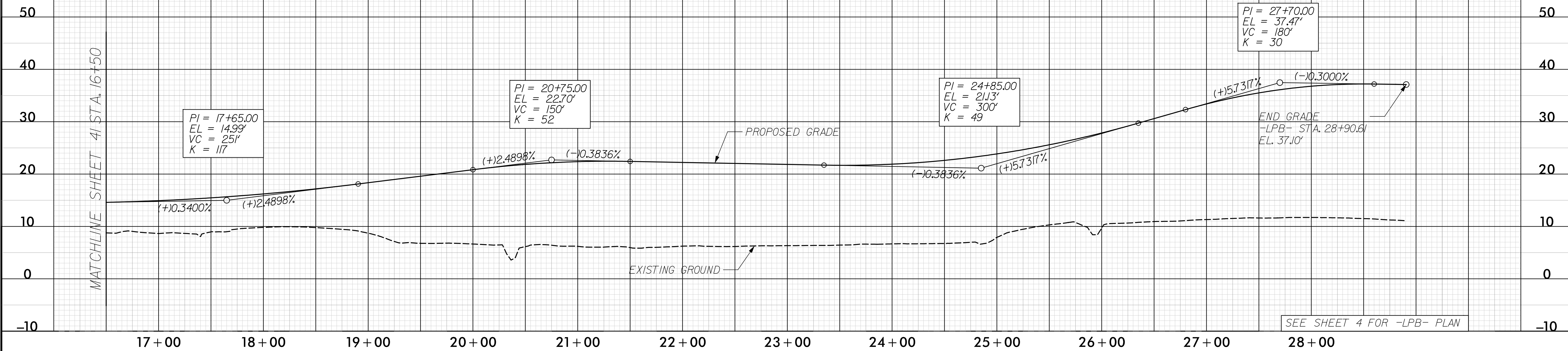
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ROADWAY DESIGN
ENGINEER

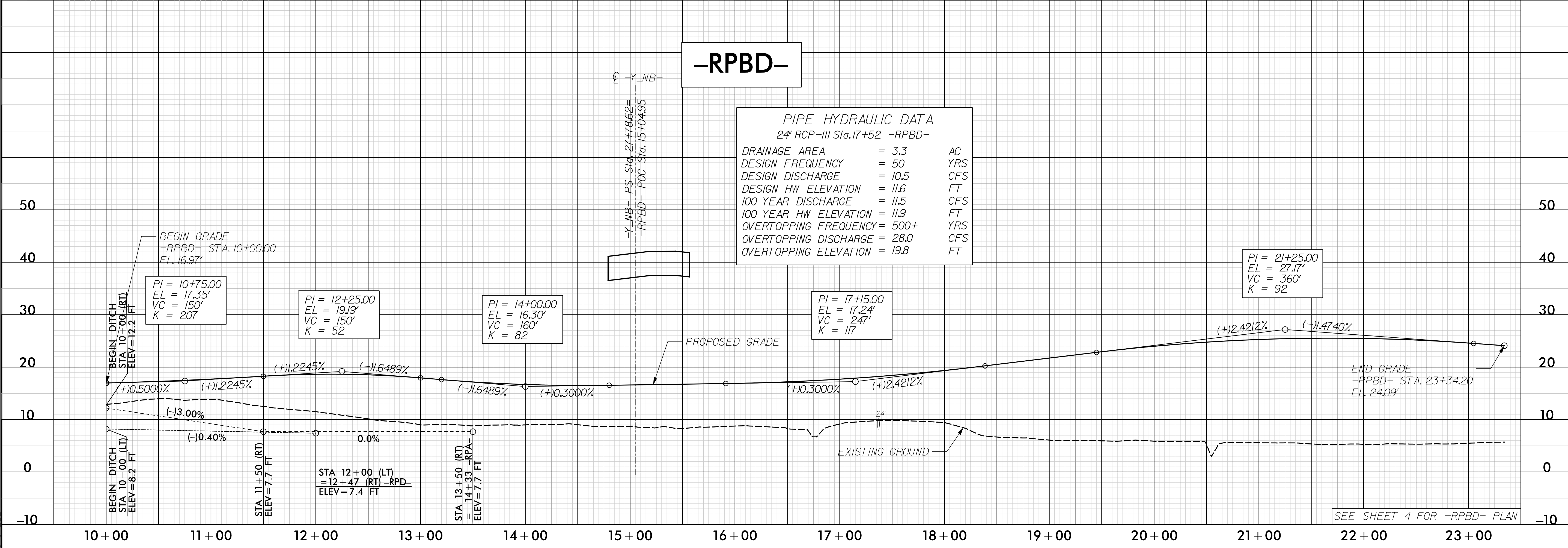
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-LPB-



-RPBD-



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PROJECT REFERENCE NO.

R-2576

SHEET NO.

43

ROADWAY DESIGN
ENGINEER

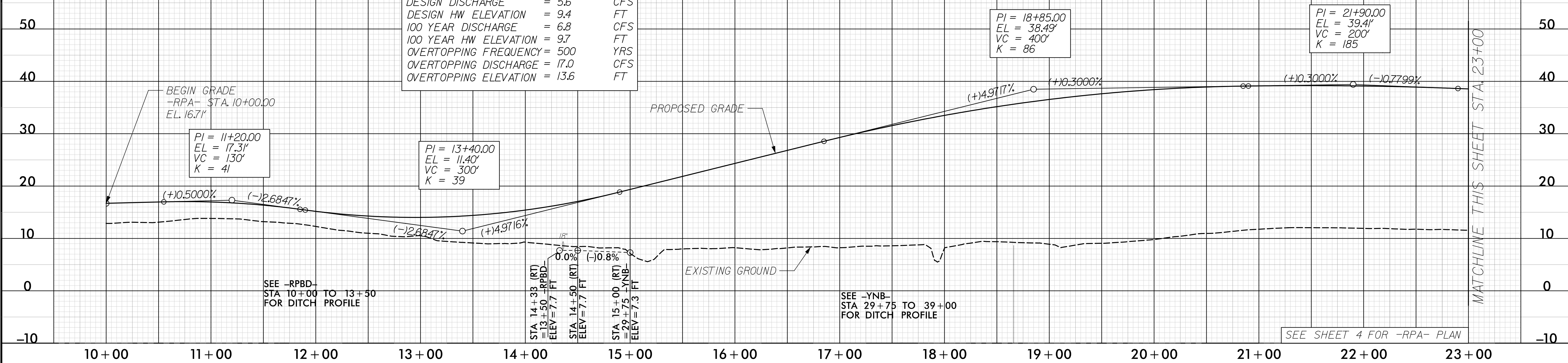
HYDRAULICS
ENGINEER

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-RPA-

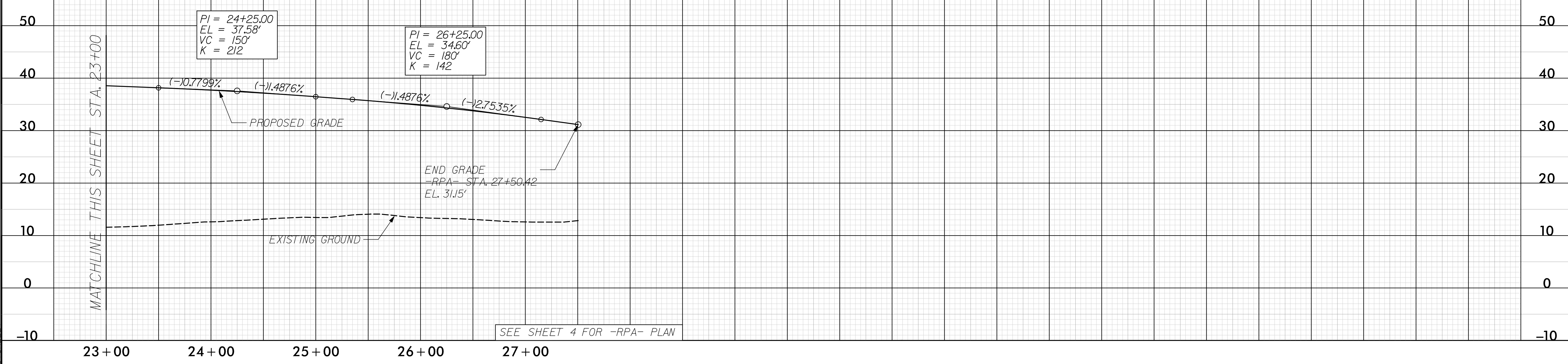
PIPE HYDRAULIC DATA
Proposed 18"-III RCP Sta.14+40 -RPA-

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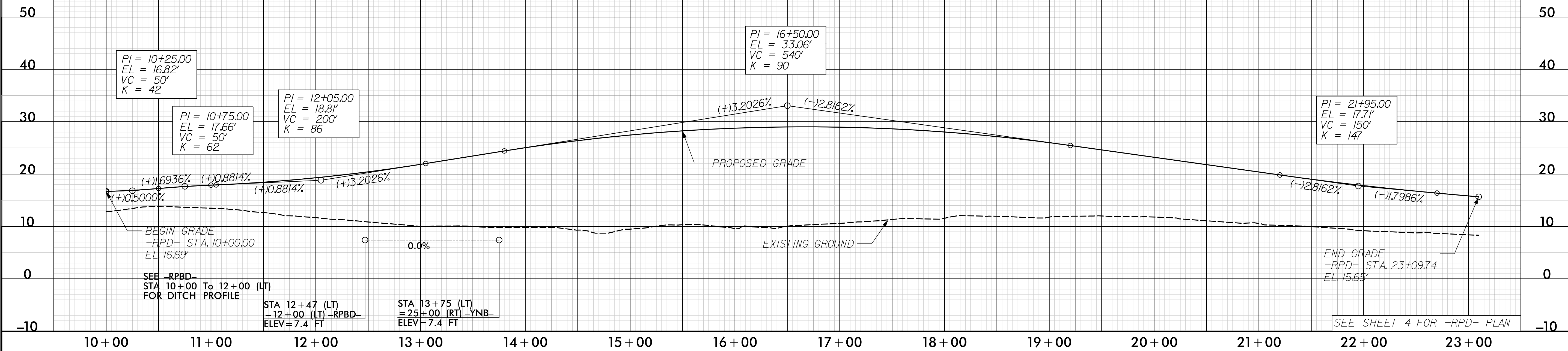
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. R-2576 SHEET NO. 44

ROADWAY DESIGN ENGINEER HYDRAULICS ENGINEER

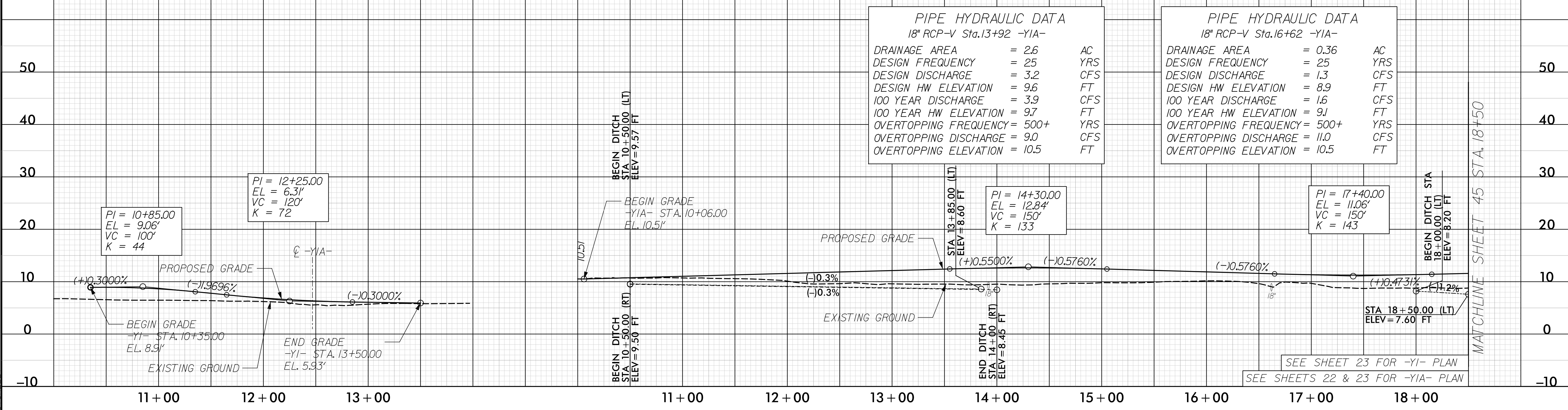
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-RPD-



-Y1- WATERLILLY RD

-Y1A-



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PROJECT REFERENCE NO.

R-2576

SHEET NO.

45

ROADWAY DESIGN
ENGINEER

HYDRAULICS
ENGINEER

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-Y1A-

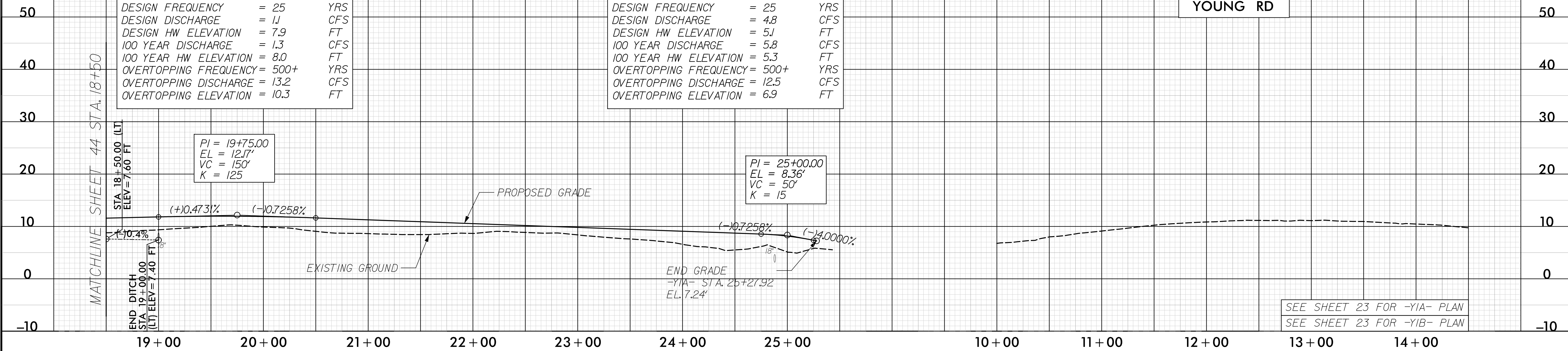
PIPE HYDRAULIC DATA
18" RCP-V Sta. 19+00 -Y1A-

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

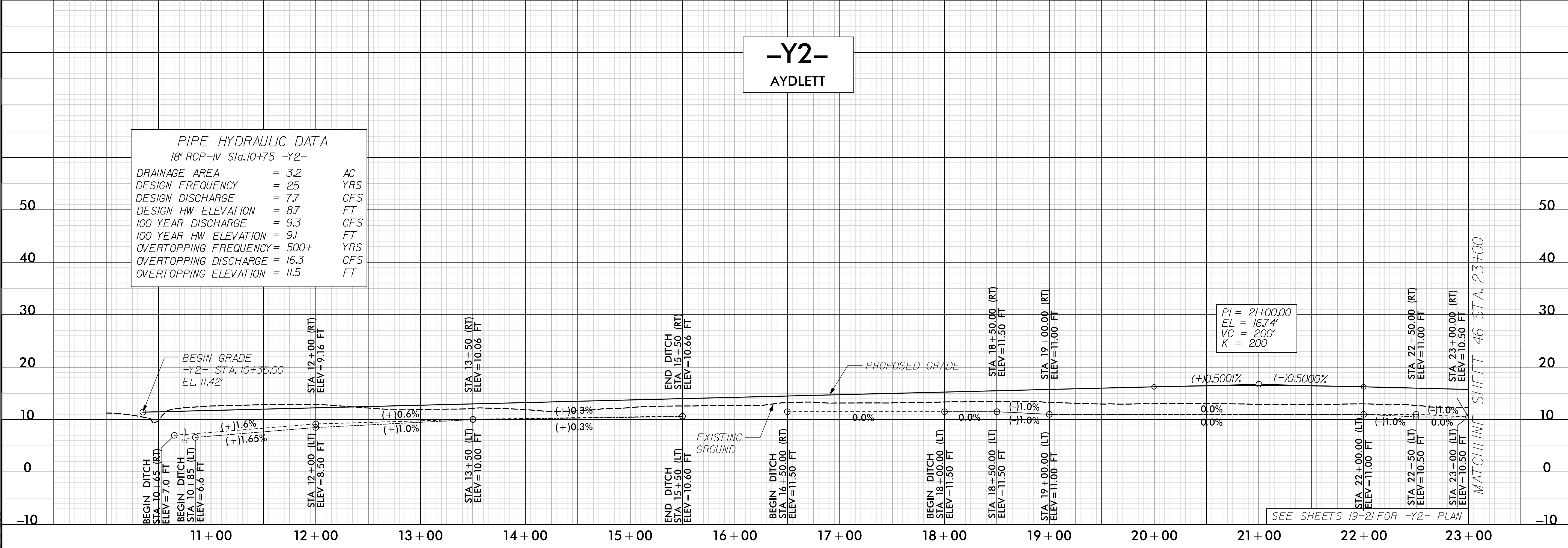
-Y1B- YOUNG RD



-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



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CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. SHEET NO.

R-2576 46

ROADWAY DESIGN ENGINEER HYDRAULICS ENGINEER

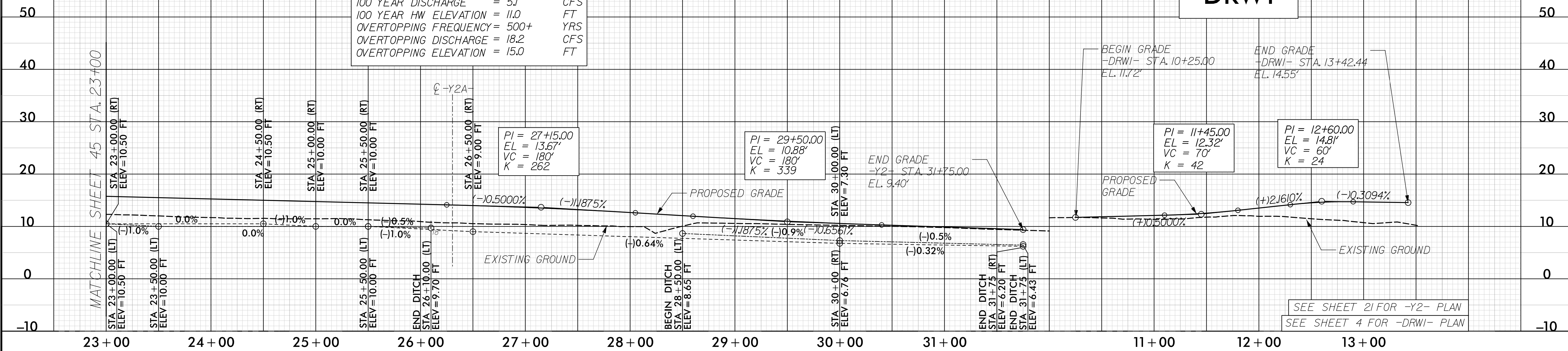
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-Y2- AYDLETT

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-



-Y2A-

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

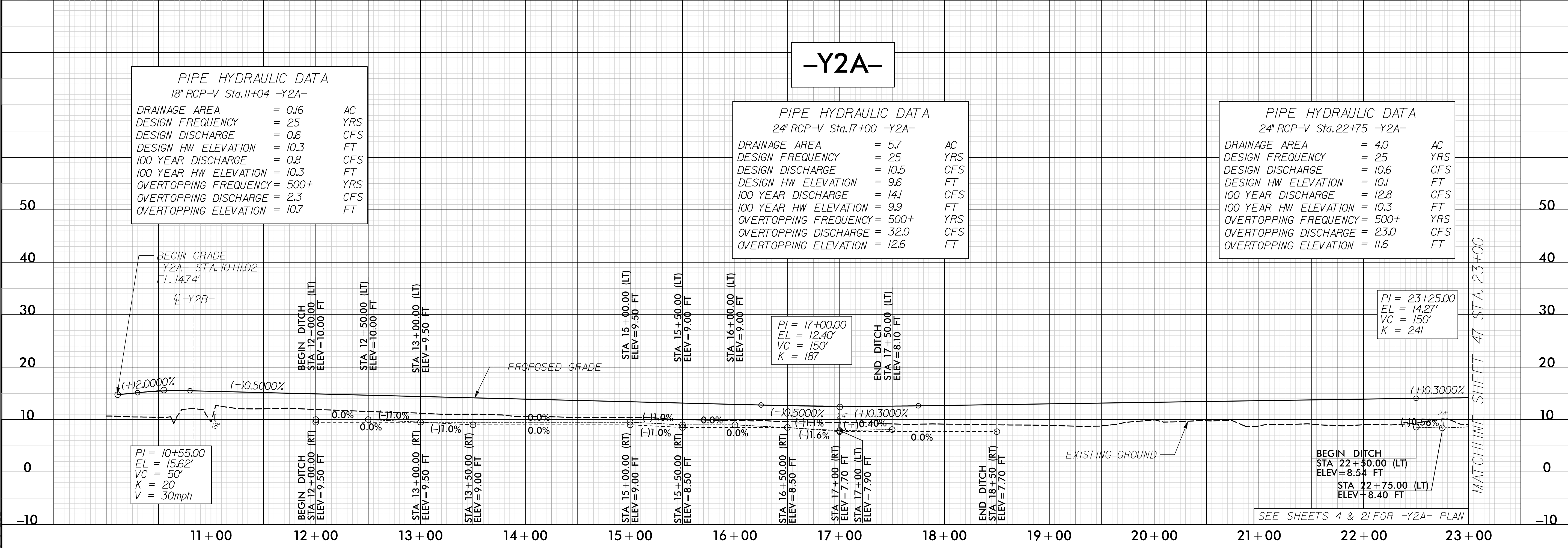
DRAINAGE AREA	= 0.16	AC
DESIGN FREQUENCY	= 25	YRS
DESIGN DISCHARGE	= 0.6	CFS
DESIGN HW ELEVATION	= 10.3	FT
100 YEAR DISCHARGE	= 0.8	CFS
100 YEAR HW ELEVATION	= 10.3	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 2.3	CFS
OVERTOPPING ELEVATION	= 10.7	FT

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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SHEET NO.

47

ROADWAY DESIGN
ENGINEER

HYDRAULICS
ENGINEER

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-Y2A-

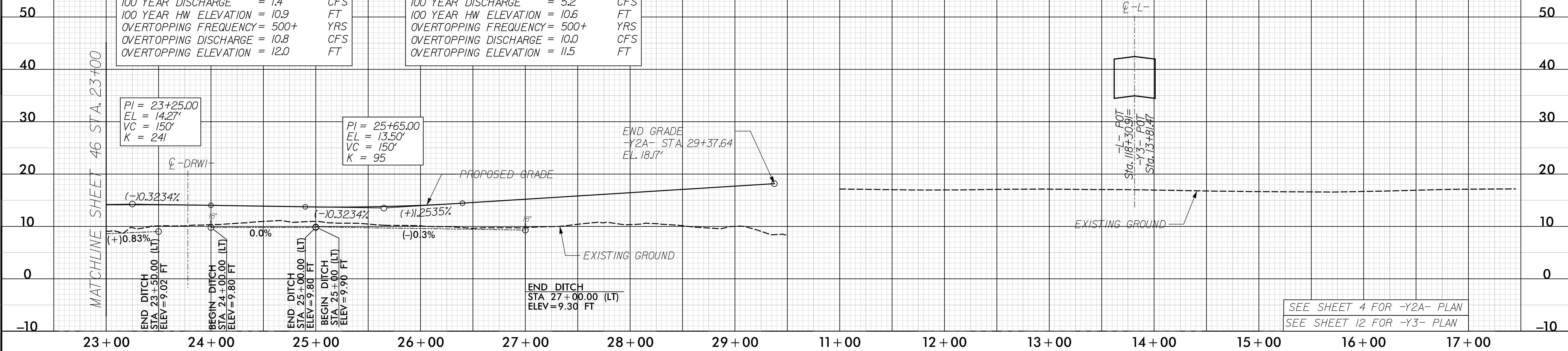
-Y3- NARROW SHORE RD

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-

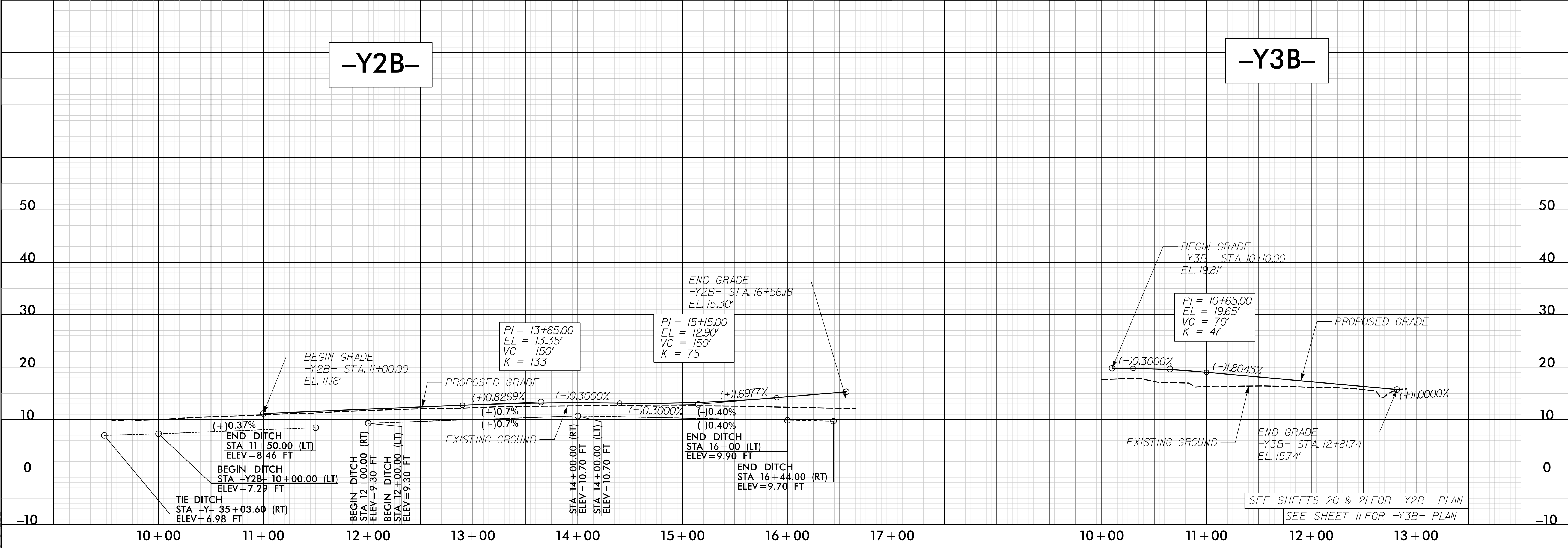
DRAINAGE AREA	= 1.3	AC
DESIGN FREQUENCY	= 25	YRS
DESIGN DISCHARGE	= 4.4	CFS
DESIGN HW ELEVATION	= 10.5	FT
100 YEAR DISCHARGE	= 5.2	CFS
100 YEAR HW ELEVATION	= 10.6	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 10.0	CFS
OVERTOPPING ELEVATION	= 11.5	FT



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

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PROJECT REFERENCE NO.

R-2576

SHEET NO.

48

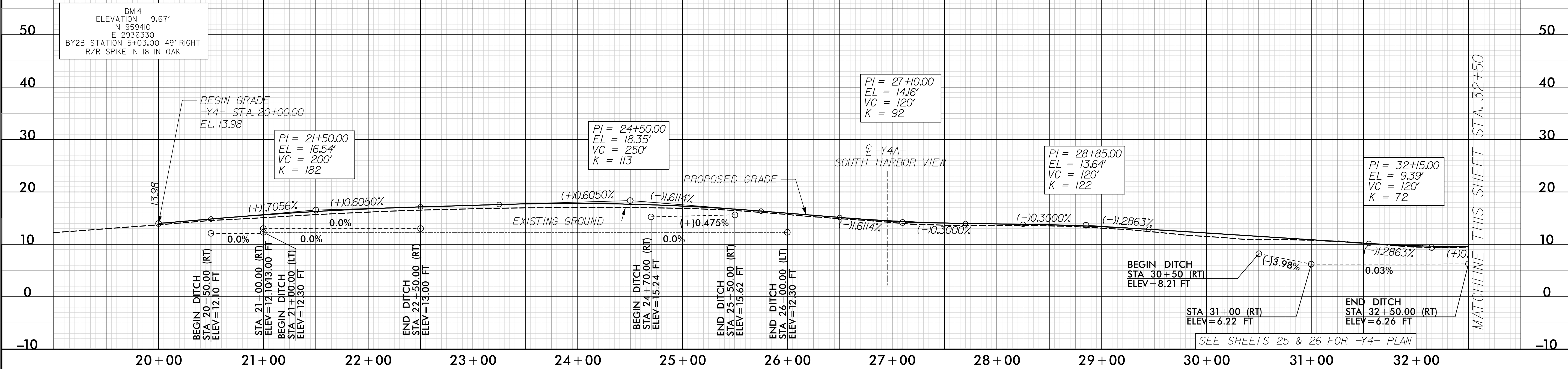
ROADWAY DESIGN
ENGINEER

HYDRAULICS
ENGINEER

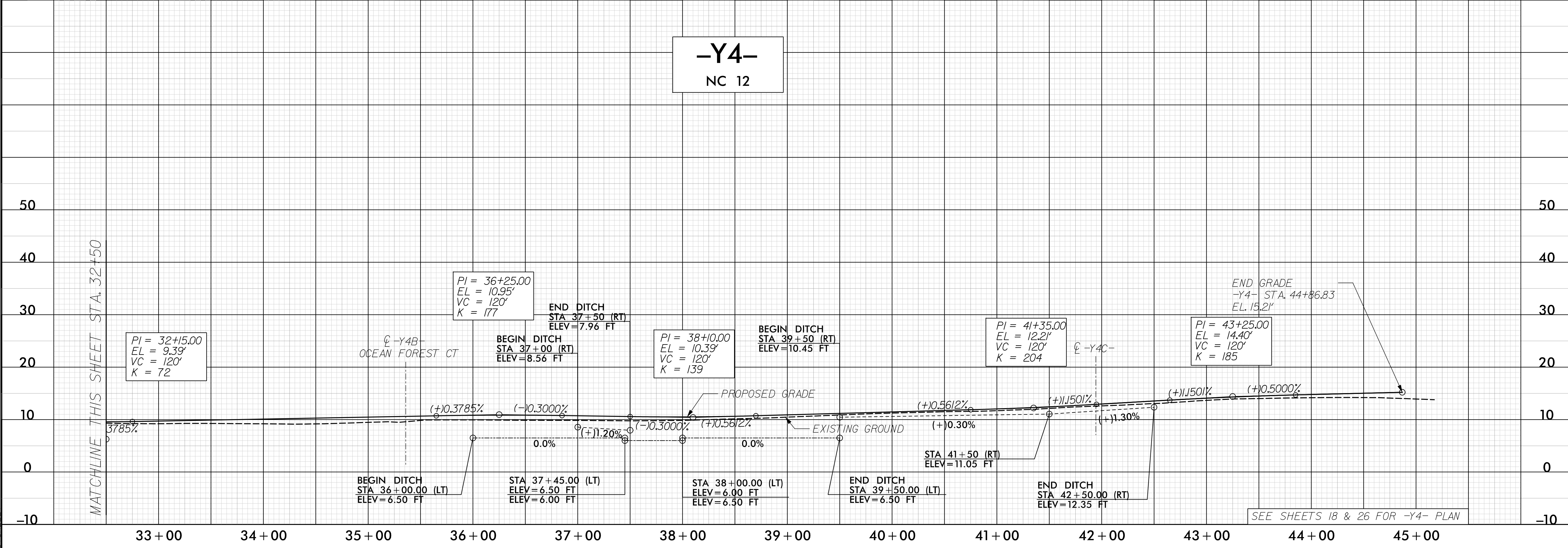
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BM#4
ELEVATION = 9.67'
N 959410
E 2936330
BY2B STATION 5+03.00 49' RIGHT
R/R SPIKE IN 18 IN OAK

-Y4-
NC 12



-Y4-
NC 12



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ROADWAY DESIGN ENGINEER HYDRAULICS ENGINEER

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-Y4A-

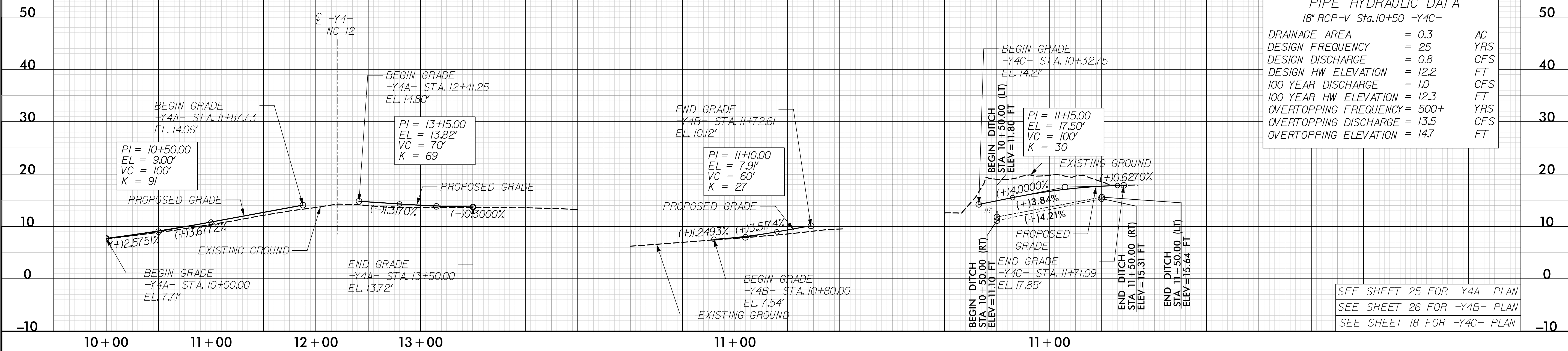
SOUTH HARBOR VIEW

-Y4B-

OCEAN FOREST CT

-Y4C-

PIPE HYDRAULIC DATA		
18" RCP-V Sta.10+50 -Y4C-		
DRAINAGE AREA	= 0.3	AC
DESIGN FREQUENCY	= 25	YRS
DESIGN DISCHARGE	= 0.8	CFS
DESIGN HW ELEVATION	= 12.2	FT
100 YEAR DISCHARGE	= 1.0	CFS
100 YEAR HW ELEVATION	= 12.3	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 13.5	CFS
OVERTOPPING ELEVATION	= 14.7	FT

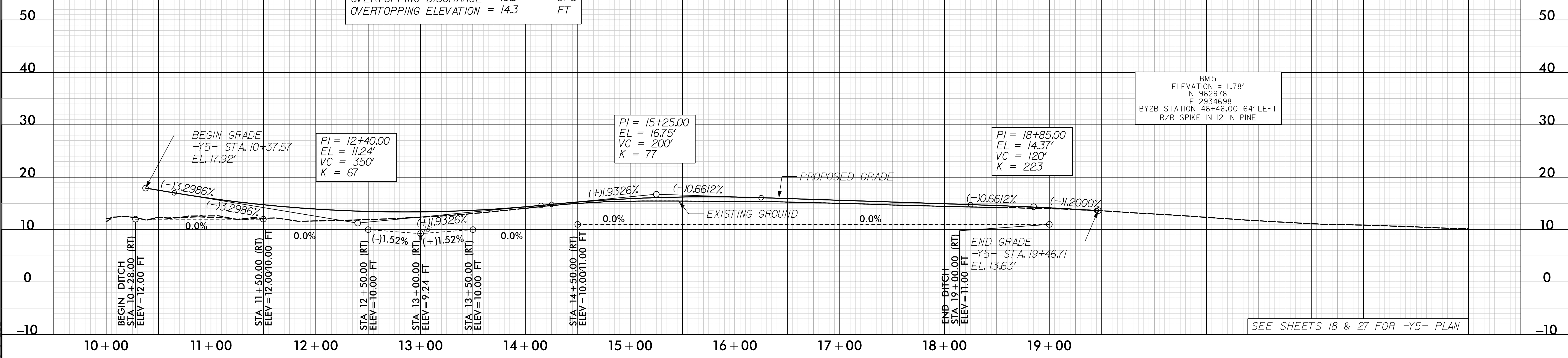


SEE SHEET 25 FOR -Y4A- PLAN
SEE SHEET 26 FOR -Y4B- PLAN
SEE SHEET 18 FOR -Y4C- PLAN

-Y5-

NC 12

PIPE HYDRAULIC DATA		
18" RCP-I Sta.13+00 -Y5-		
DRAINAGE AREA	= 2.1	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 8.2	CFS
DESIGN HW ELEVATION	= 10.9	FT
100 YEAR DISCHARGE	= 8.8	CFS
100 YEAR HW ELEVATION	= 11.0	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 19.9	CFS
OVERTOPPING ELEVATION	= 14.3	FT



BMS
ELEVATION = 11.78'
N 362978
E 2934698
BY2B STATION 46+46.00 64' LEFT
R/R SPIKE IN I2 IN PINE

SEE SHEETS 18 & 27 FOR -Y5- PLAN

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PROJECT REFERENCE NO. R-2576 SHEET NO. 50

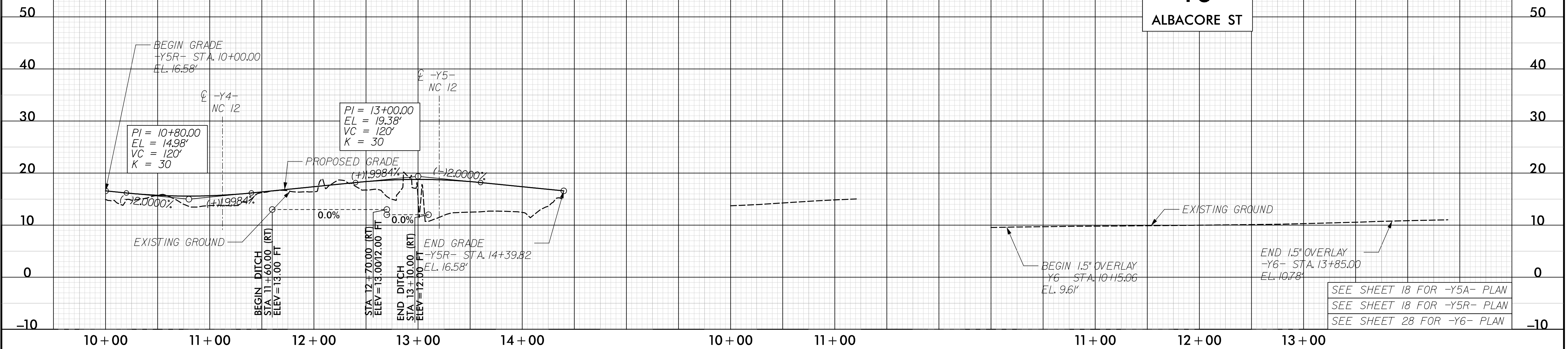
ROADWAY DESIGN ENGINEER HYDRAULICS ENGINEER

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-Y5R- ROUNDBABOUT

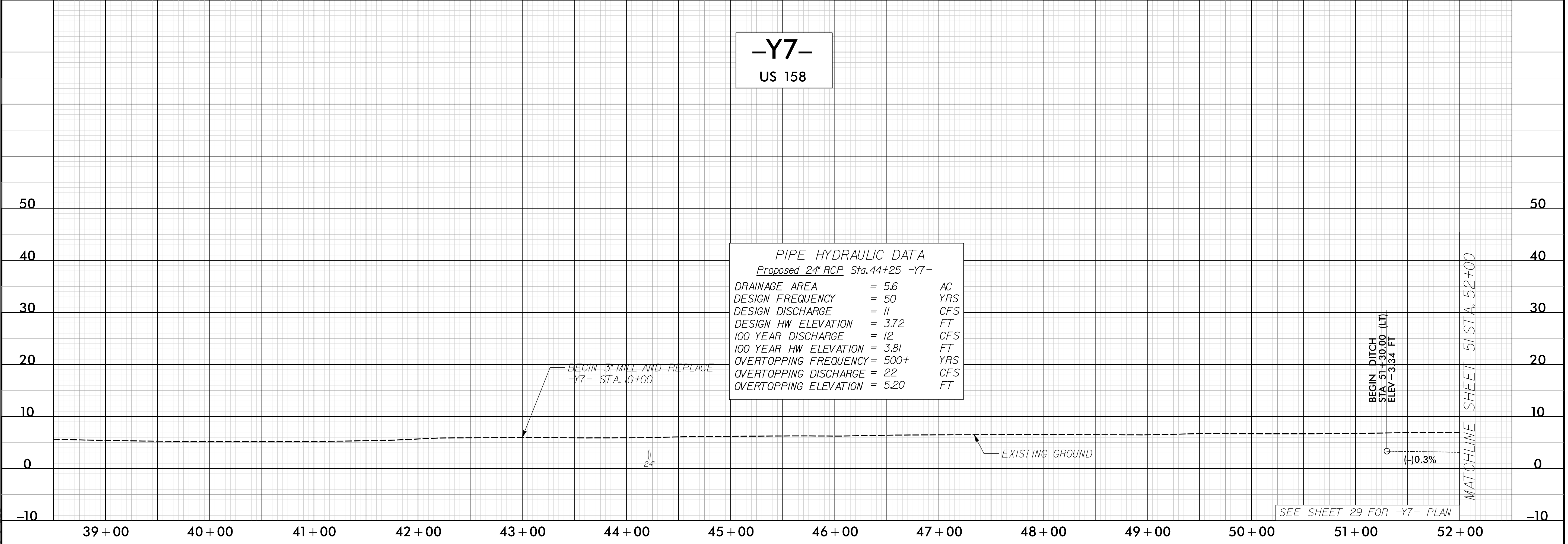
-Y5A- NORTH HARBOR VIEW

-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

MATCHLINE SHEET 51 STA. 52+00

6/17/2024
R0076_R04U-pl-50.dgn
C:\WORK\PROJECTS\50150\

5/28/99

-Y7-
US 158

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

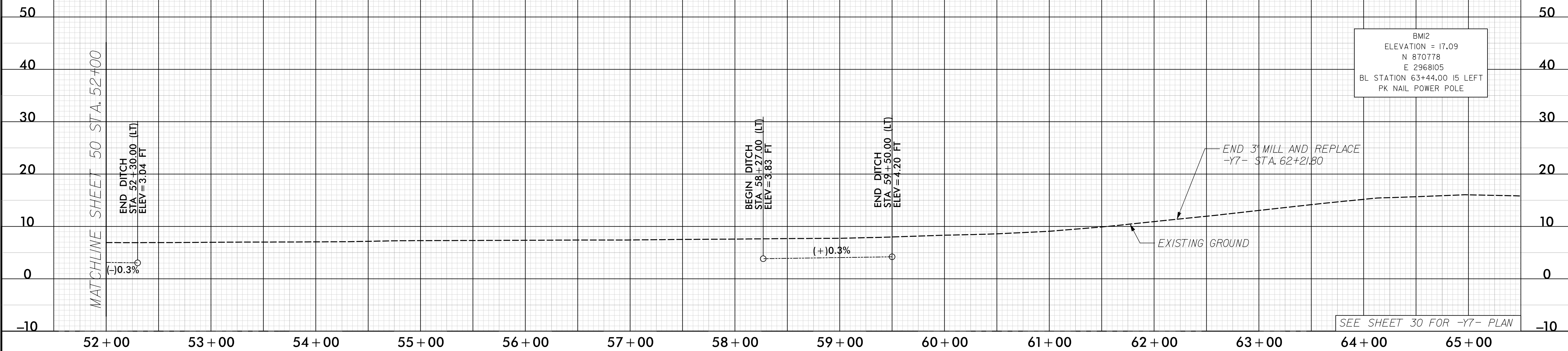
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. R-2576 SHEET NO. 51

ROADWAY DESIGN ENGINEER HYDRAULICS ENGINEER

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

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



6/17/2024
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C. COLEBY