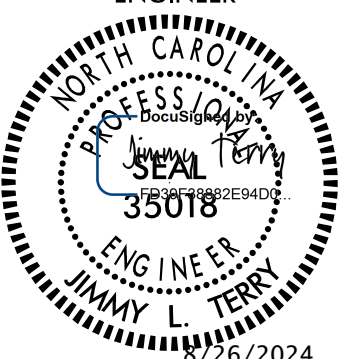
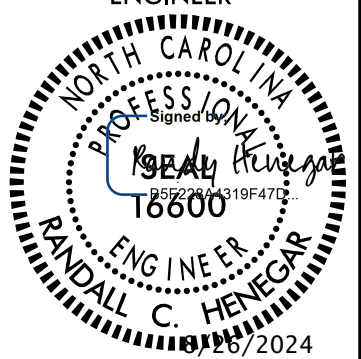

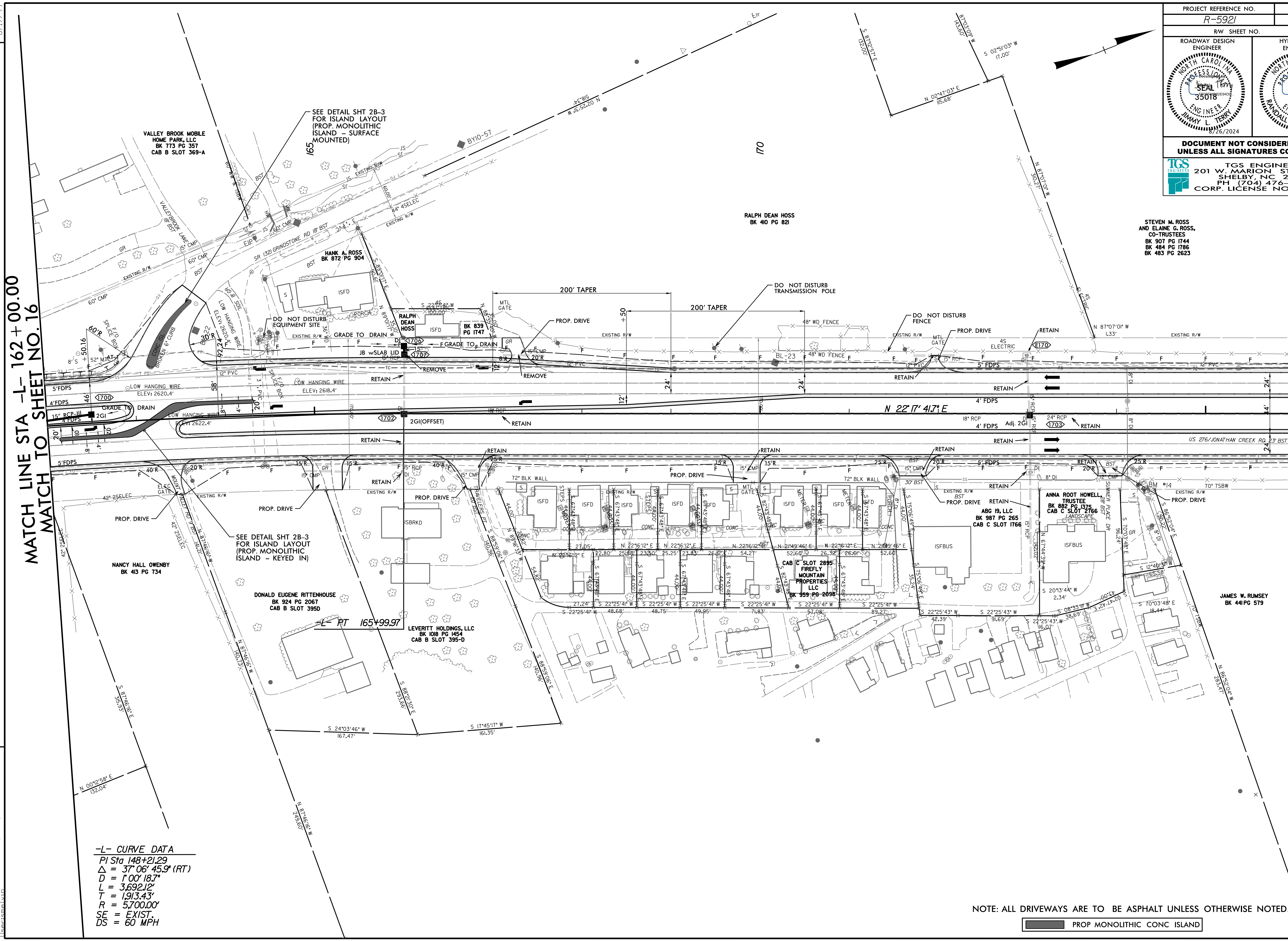


PROJECT REFERENCE NO. R-5921		SHEET NO. 17	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
 TGS ENGINEERS 201 W. MARION ST STE 200 SHELBY, NC 28150 PH: (704) 476-0003 CORP. LICENSE NO.: C-0275			

STEVEN M. ROSS
AND ELAINE G. ROSS,
CO-TRUSTEES
BK 907 PG 1744
BK 484 PG 1786
BK 483 PG 2623



MATCH LINE STA -L- 162+00.00
 MATCH TO SHEET NO. 16

MATCH LINE STA -L- 176+00.00
 MATCH TO SHEET NO. 18

-L- CURVE DATA
 PI Sta 148+21.29
 $\Delta = 37^{\circ} 06' 45.9''$ (RT)
 $D = 1^{\circ} 00' 18.7''$
 $L = 3,692.12'$
 $T = 1,913.43'$
 $R = 5,700.00'$
 SE = EXIST
 DS = 60 MPH

NOTE: ALL DRIVEWAYS ARE TO BE ASPHALT UNLESS OTHERWISE NOTED.

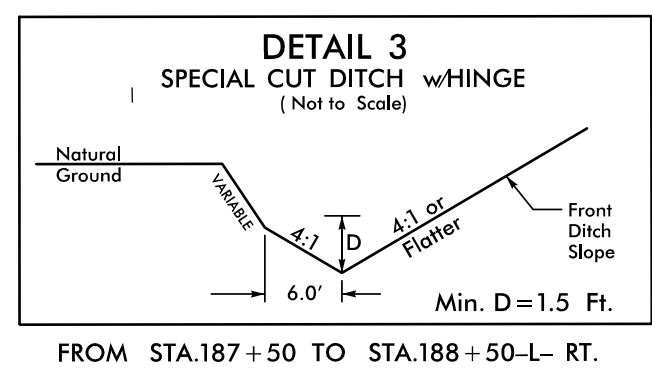
 PROP MONOLITHIC CONC ISLAND

REVISIONS

8/17/24

8/26/2024 R:\Roadway\Proc\N-R-5921_Rdy.psh_17.dgn
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 11/26/2024

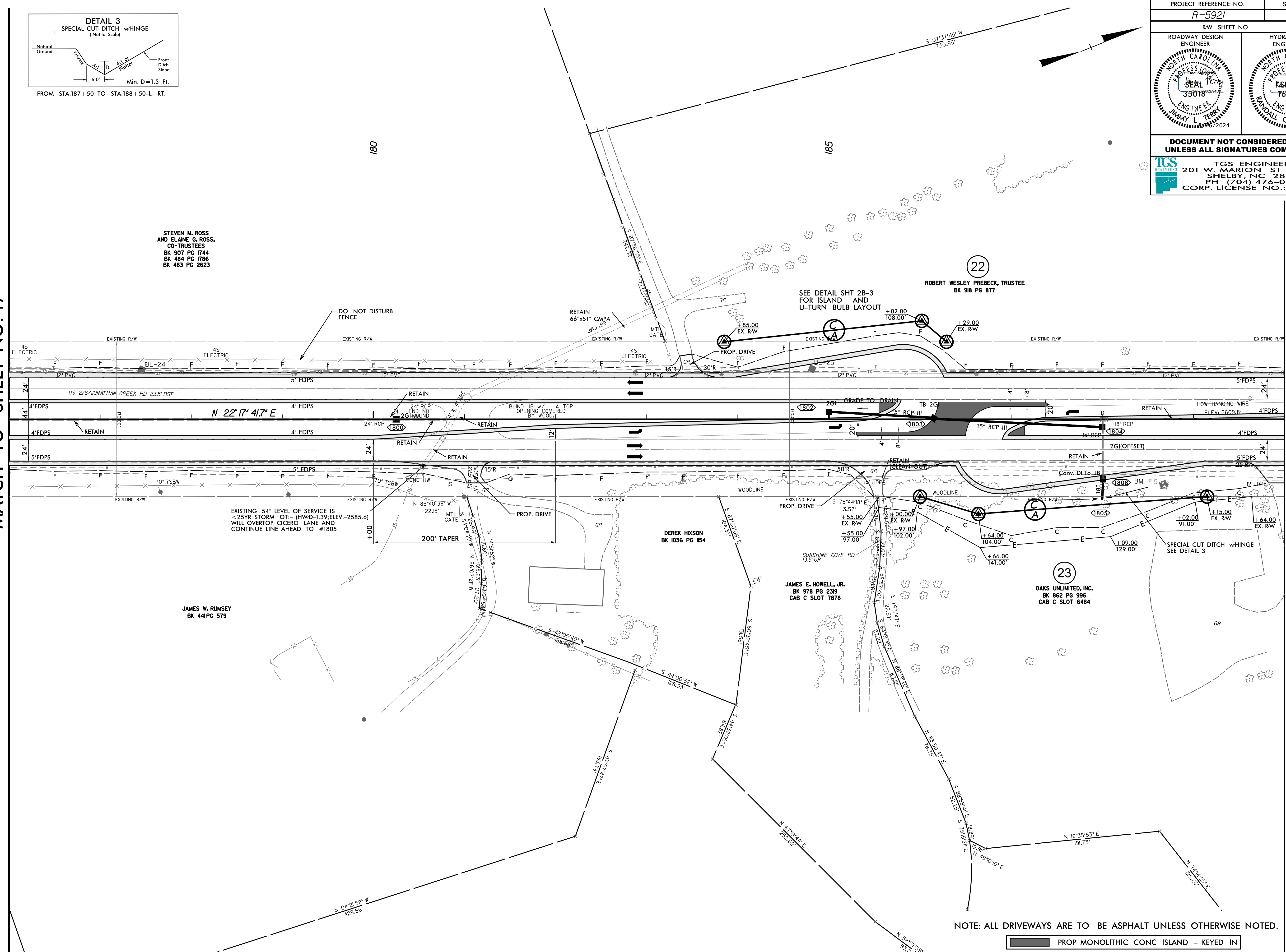
8/17/24



PROJECT REFERENCE NO. R-5921		SHEET NO. 18	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
 TGS ENGINEERS 201 W. MARION ST STE 200 SHELBY, NC 28150 PH: (704) 476-0003 CORP. LICENSE NO.: C-0275			

MATCH LINE STA -L- 176+00.00
MATCH TO SHEET NO. 17

MATCH LINE STA -L- 190+00.00
MATCH TO SHEET NO. 19



STEVEN M. ROSS
AND ELAINE G. ROSS,
CO-TRUSTEES
BK 907 PG 1744
BK 484 PG 1786
BK 483 PG 2623

ROBERT WESLEY PREBECK, TRUSTEE
BK 918 PG 877

DEREK HIXSON
BK 1036 PG 154

JAMES E. HOWELL, JR.
BK 978 PG 2319
CAB C SLOT 7878

OAKS UNLIMITED, INC.
BK 862 PG 996
CAB C SLOT 6484

JAMES W. RUMSEY
BK 441 PG 579

EXISTING 54" LEVEL OF SERVICE IS
25YR STORM OT - (HWD)-1.39 (ELEV.-2585.6)
WILL OVERTOP CICERO LANE AND
CONTINUE LINE AHEAD TO #1805

SEE DETAIL SHT 2B-3
FOR ISLAND AND
U-TURN BULB LAYOUT

SPECIAL CUT DITCH wHINGE
SEE DETAIL 3

NOTE: ALL DRIVEWAYS ARE TO BE ASPHALT UNLESS OTHERWISE NOTED.

PROP MONOLITHIC CONC ISLAND - KEYED IN

REVISIONS

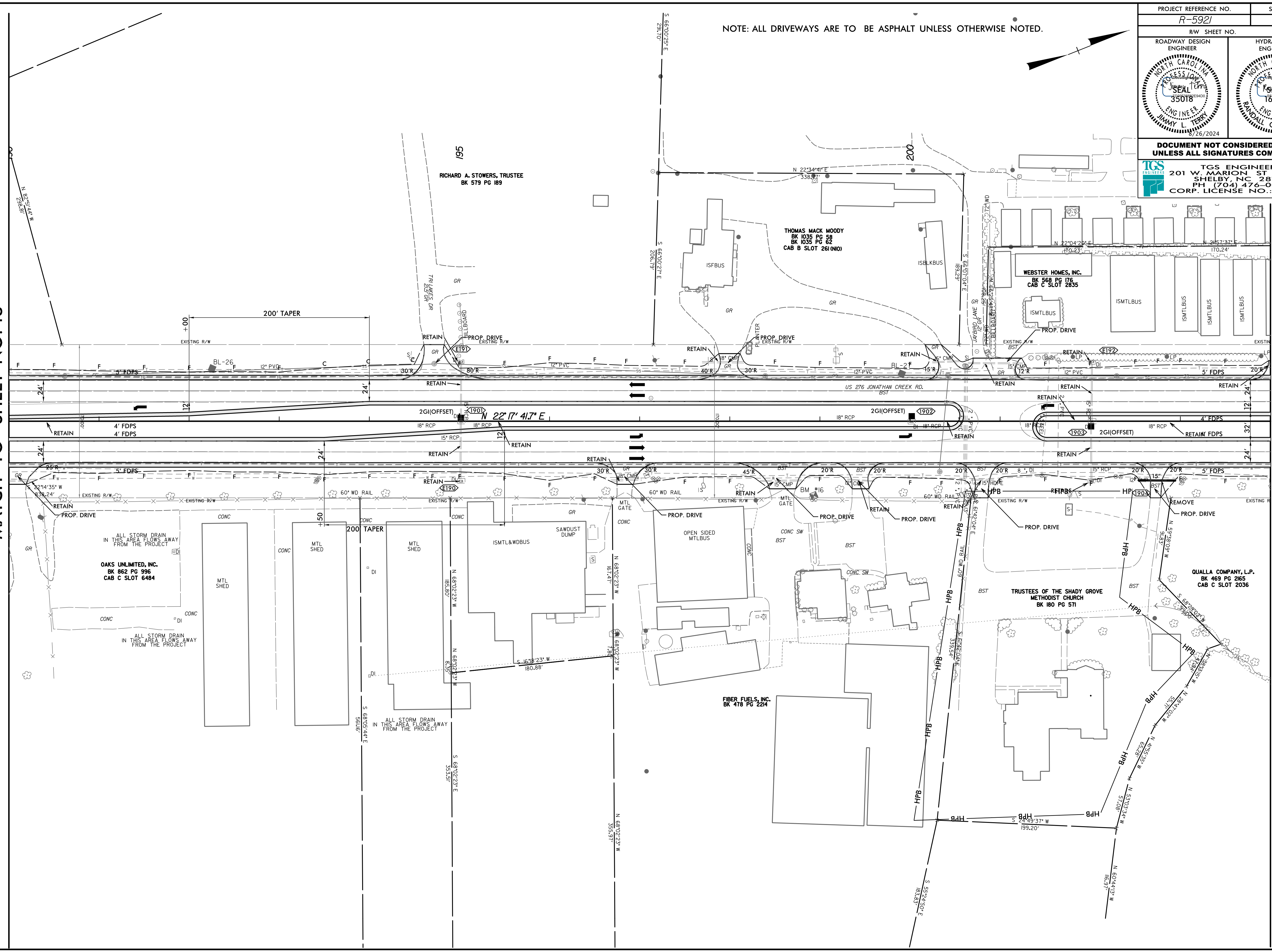
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 JLR

8/17/99

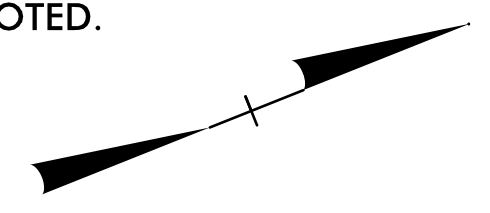
REVISIONS

X:\2024\2024\Roadway\Proj\R-5921_Rdy_psh_9.dgn
User: tsmel

MATCH LINE STA -L- 190+00.00
MATCH TO SHEET NO. 18



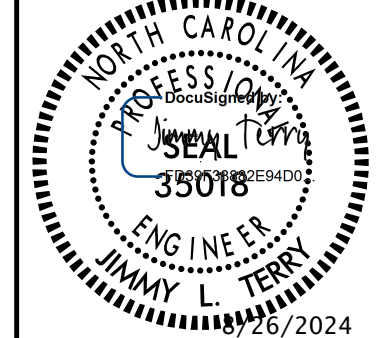
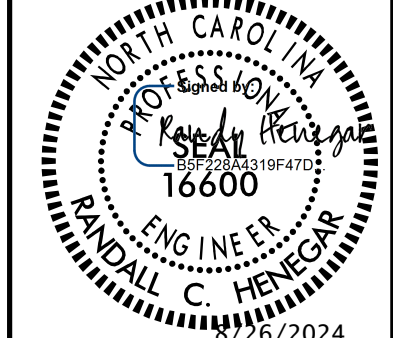

NOTE: ALL DRIVEWAYS ARE TO BE ASPHALT UNLESS OTHERWISE NOTED.



PROJECT REFERENCE NO. R-5921		SHEET NO. 19	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
TGS ENGINEERS 201 W. MARION ST STE 200 SHELBY, NC 28150 PH: (704) 476-0003 CORP. LICENSE NO.: C-0275			

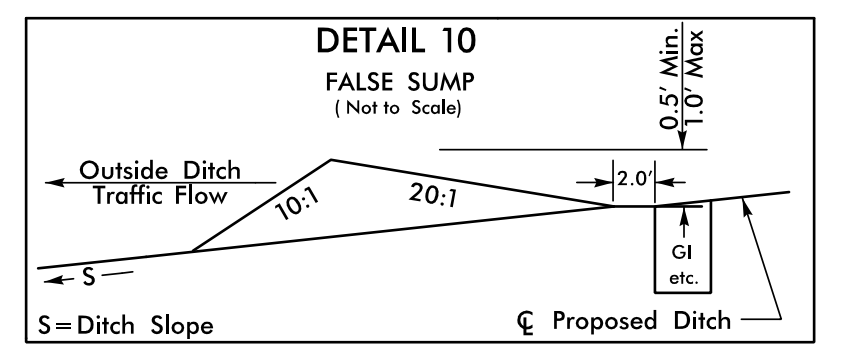
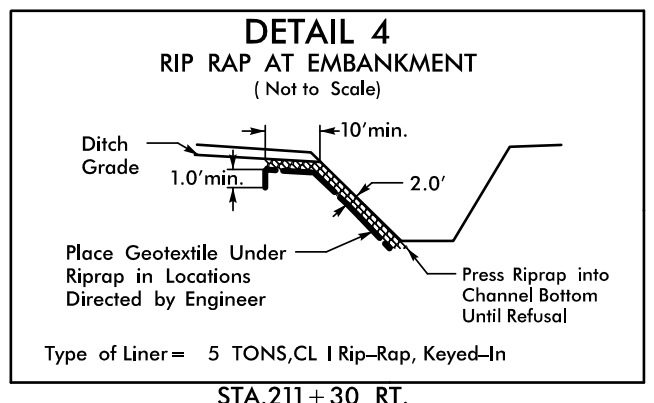
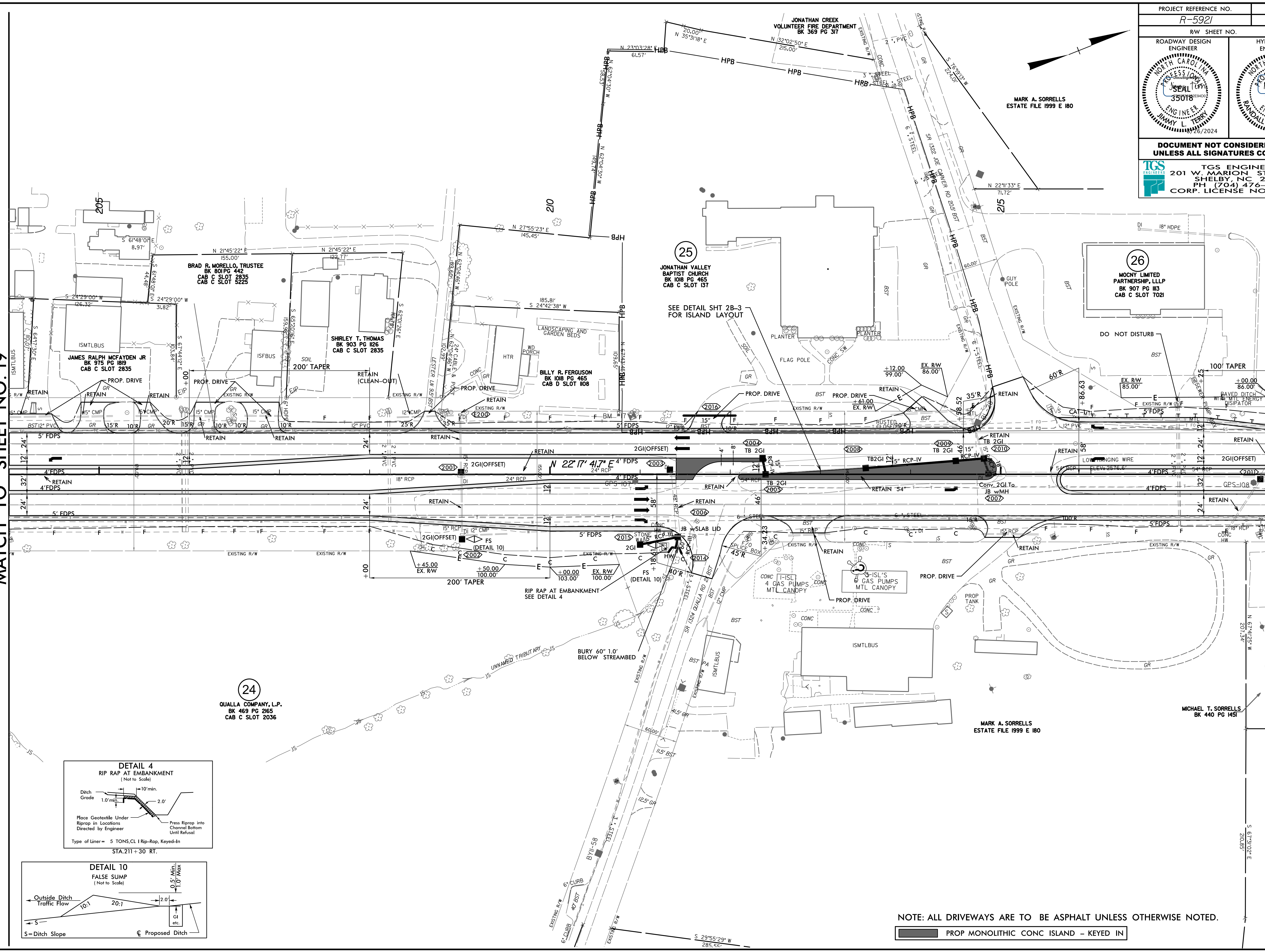
MATCH LINE STA -L- 204+00.00
MATCH TO SHEET NO. 20

8/17/24

PROJECT REFERENCE NO. R-5921		SHEET NO. 20	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
 TGS ENGINEERS 201 W. MARION ST STE 200 SHELBY, NC 28150 PH: (704) 476-0003 CORP. LICENSE NO.: C-0275			

MATCH LINE STA -L- 204 + 00.00
MATCH TO SHEET NO. 19

MATCH LINE STA -L- 218 + 00.00
MATCH TO SHEET NO. 21



NOTE: ALL DRIVEWAYS ARE TO BE ASPHALT UNLESS OTHERWISE NOTED.

PROP MONOLITHIC CONC ISLAND - KEYED IN

REVISIONS

R:\2024\2024\Roadway\5921\Roadway\Proc\JNR-5921_Rdy_psh_20.dgn
11/25/2024 10:58:10 AM

N 67°14'28" W 207.34' W
S 67°31'02" E 208.85' W

24
QUALLA COMPANY, L.P.
BK 469 PG 265
CAB C SLOT 2036

25
JONATHAN VALLEY
BAPTIST CHURCH
BK 1018 PG 465
CAB C SLOT 137

26
MOONY LIMITED
PARTNERSHIP, LLLP
BK 907 PG 113
CAB C SLOT 7021

BRAD R. MORELLO, TRUSTEE
BK 801 PG 442
CAB C SLOT 2835
CAB C SLOT 5225

SHIRLEY T. THOMAS
BK 903 PG 126
CAB C SLOT 2835

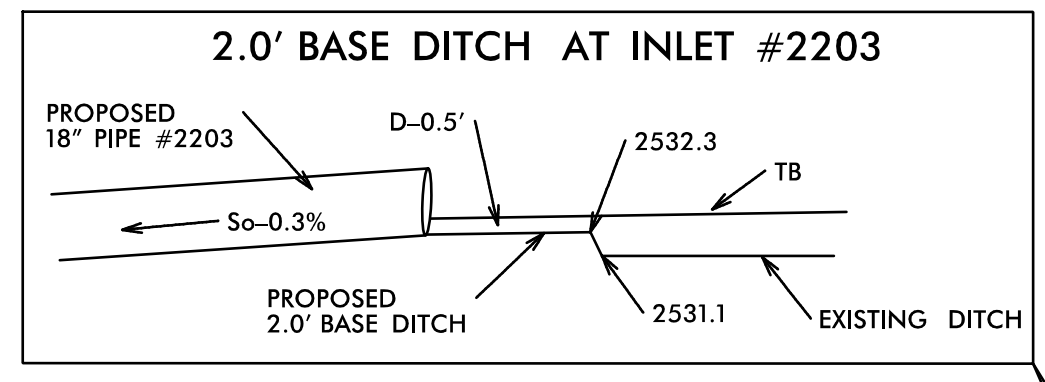
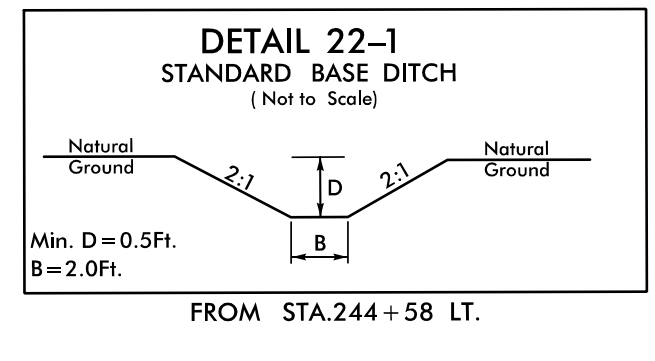
BILLY R. FERGUSON
BK 1018 PG 465
CAB D SLOT 108

MARK A. SORRELLS
ESTATE FILE 1999 E 180

MICHAEL T. SORRELLS
BK 440 PG 1451

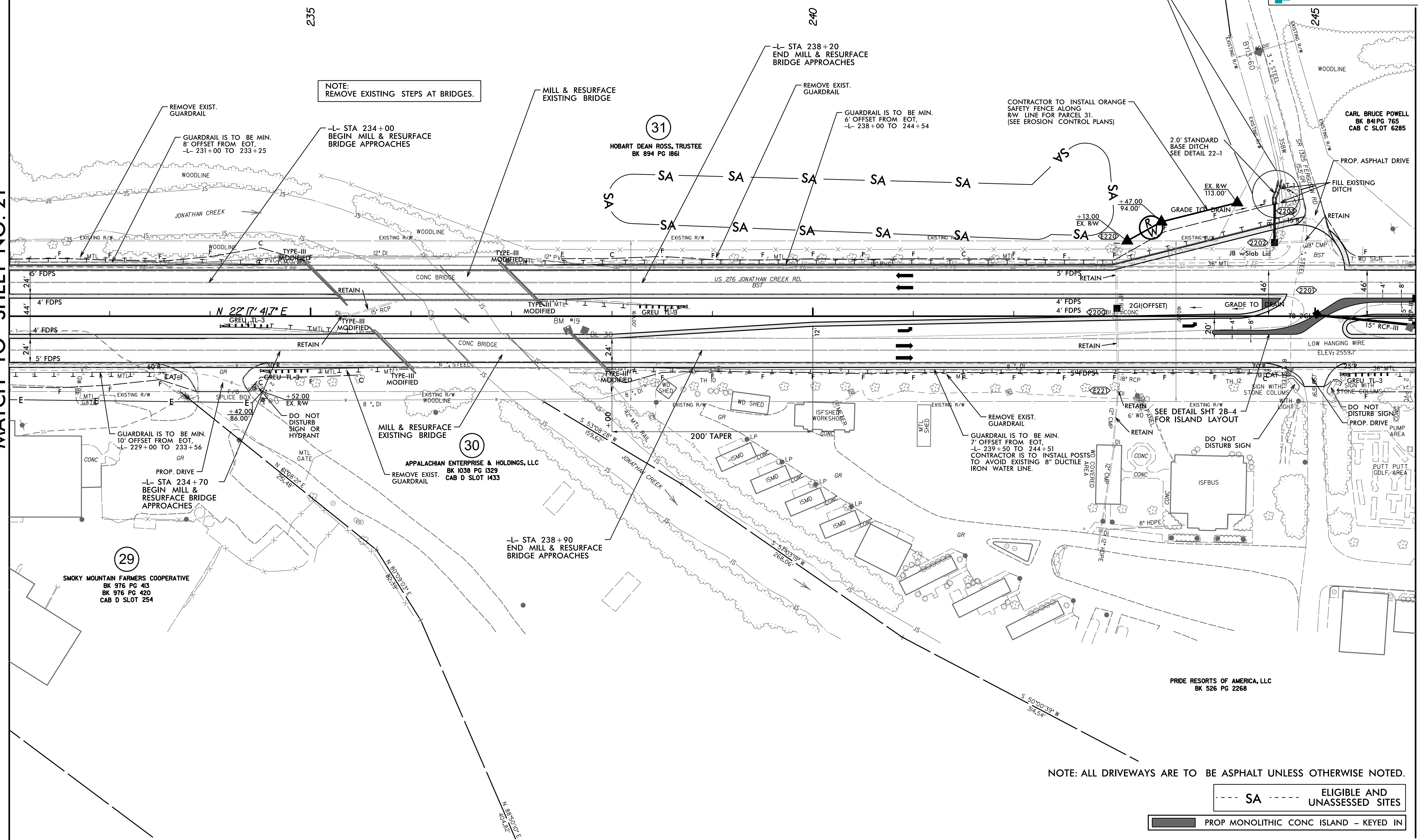
8/17/24

PROJECT REFERENCE NO. R-5921		SHEET NO. 22	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
 TGS ENGINEERS 201 W. MARION ST STE 200 SHELBY, NC 28150 PH: (704) 476-0003 CORP. LICENSE NO.: C-0275			



MATCH LINE STA -L- 232+00.00
MATCH TO SHEET NO. 21

MATCH LINE STA -L- 246+00.00
MATCH TO SHEET NO. 23



NOTE: REMOVE EXISTING STEPS AT BRIDGES.

NOTE: ALL DRIVEWAYS ARE TO BE ASPHALT UNLESS OTHERWISE NOTED.

--- SA --- ELIGIBLE AND UNASSESSED SITES

█ PROP MONOLITHIC CONC ISLAND - KEYED IN

REVISIONS

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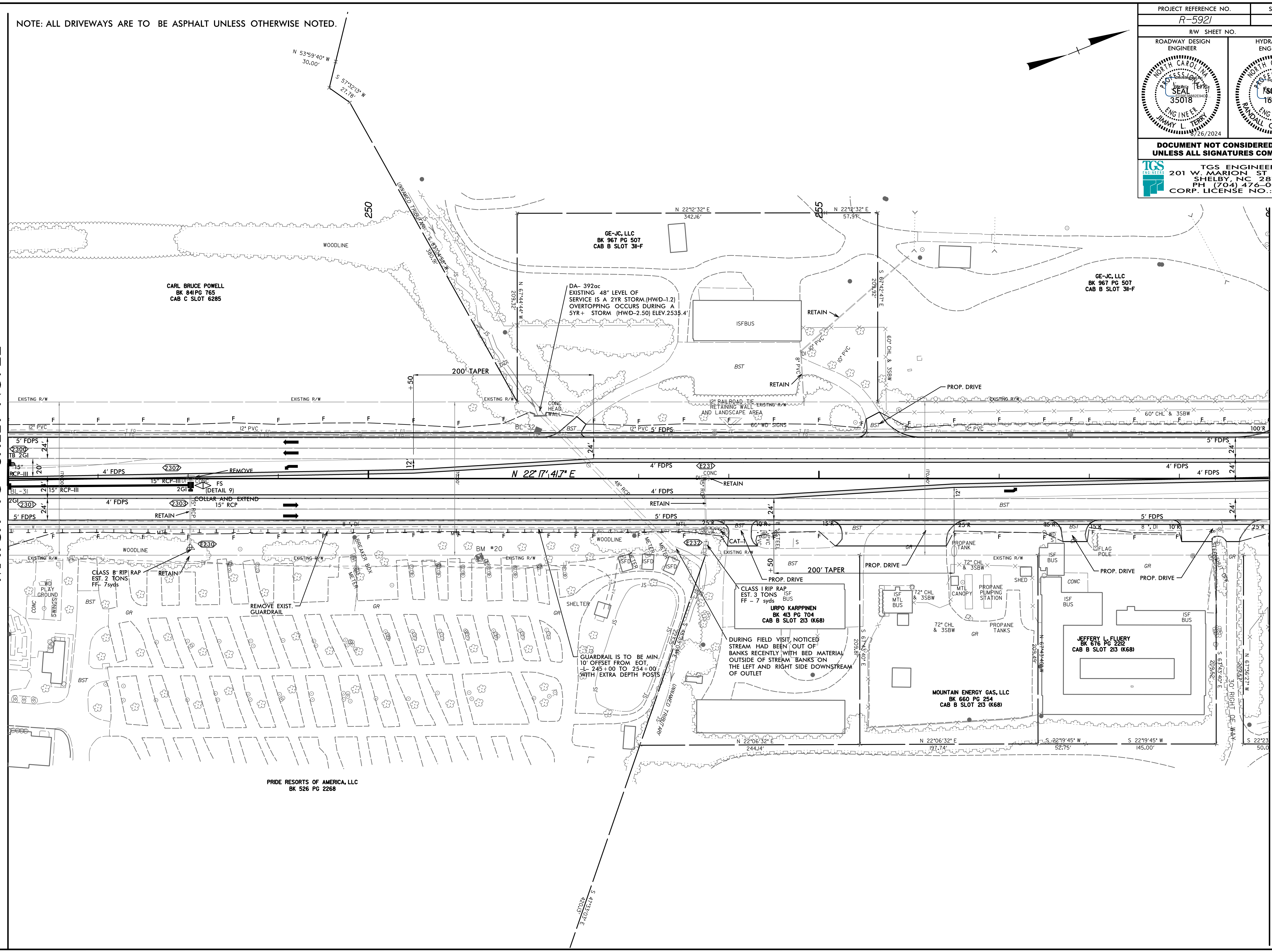
8/17/24

NOTE: ALL DRIVEWAYS ARE TO BE ASPHALT UNLESS OTHERWISE NOTED.

PROJECT REFERENCE NO. R-5921		SHEET NO. 23	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
TGS ENGINEERS 201 W. MARION ST STE 200 SHELBY, NC 28150 PH: (704) 476-0003 CORP. LICENSE NO.: C-0275			

MATCH LINE STA -L- 246 + 00.00
MATCH TO SHEET NO. 22

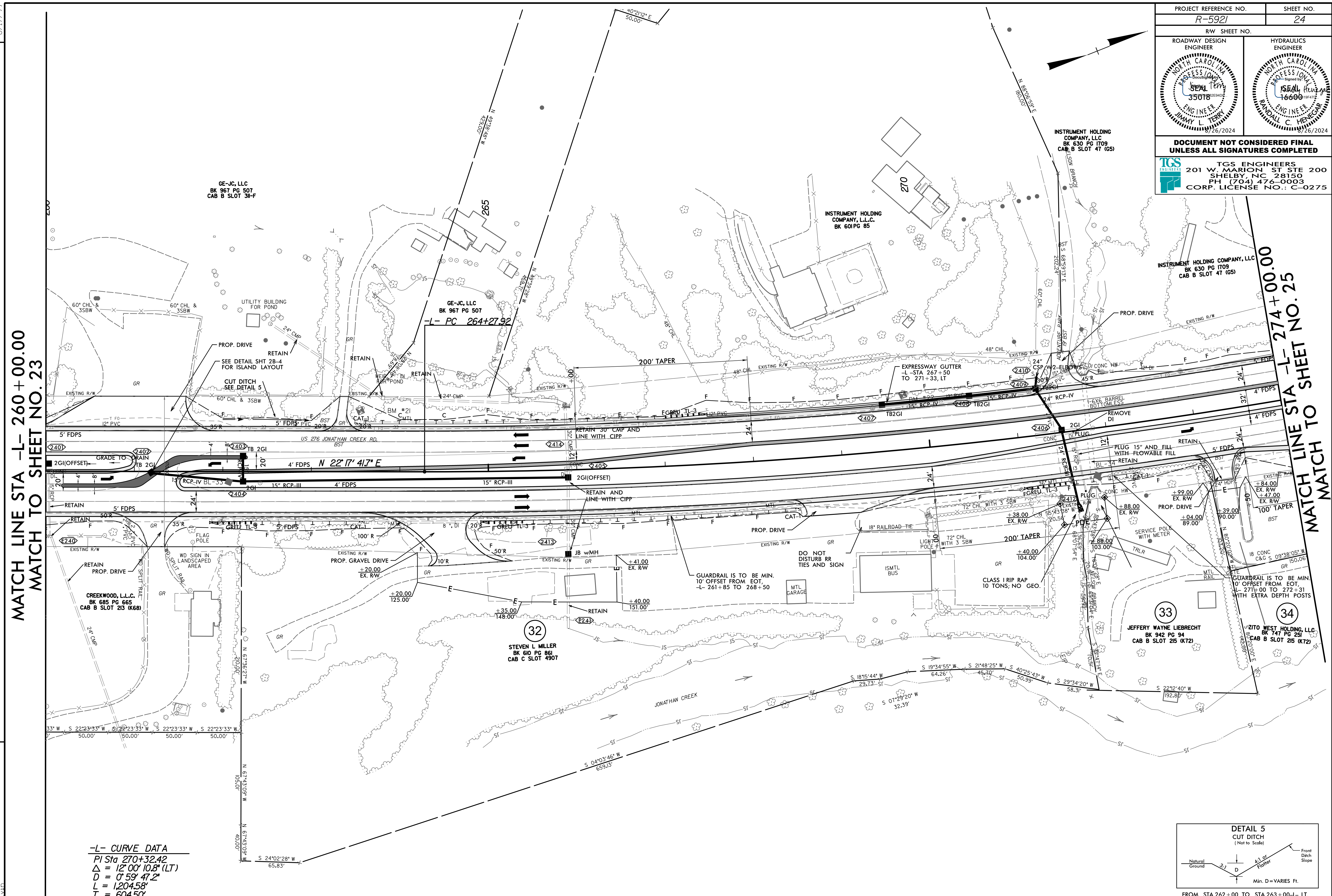
MATCH LINE STA -L- 260 + 00.00
MATCH TO SHEET NO. 24



REVISIONS

8/20/2024
C:\Users\jerry.terry\OneDrive\Documents\Projects\5921_R-5921_Rdy_psh_23.dgn
jerry.terry

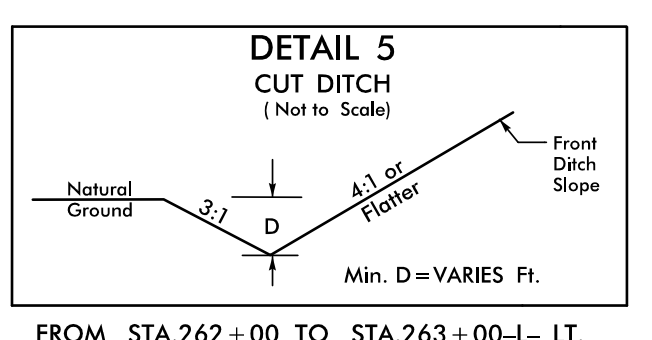
PROJECT REFERENCE NO. R-5921		SHEET NO. 24	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
 TGS ENGINEERS 201 W. MARION ST STE 200 SHELBY, NC 28150 PH: (704) 476-0003 CORP. LICENSE NO.: C-0275			



MATCH LINE STA -L- 260+00.00
MATCH TO SHEET NO. 23

MATCH LINE STA -L- 274+00.00
MATCH TO SHEET NO. 25

-L- CURVE DATA
 PI Sta 270+32.42
 $\Delta = 12^{\circ} 00' 10.8''$ (LT)
 $D = 0^{\circ} 59' 47.2''$
 $L = 1204.58'$
 $T = 604.50'$
 $R = 5750.00'$
 $SE = EXIST.$
 $DS = 60$ MPH



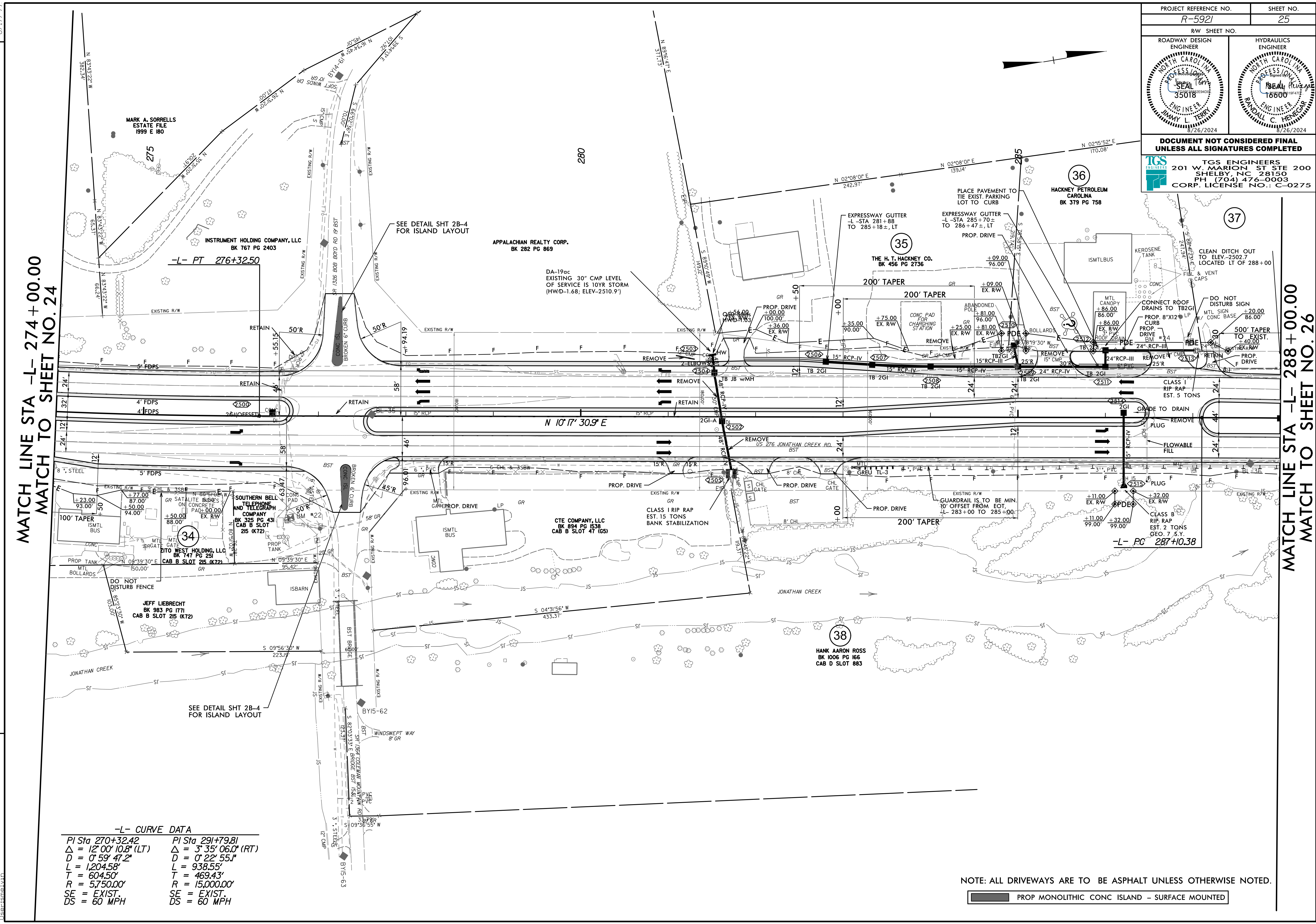
FROM STA. 262+00 TO STA. 263+00-L- LT.

NOTE: ALL DRIVEWAYS ARE TO BE ASPHALT UNLESS OTHERWISE NOTED.

REVISIONS

8/17/24
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 8/20/2024
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PROJECT REFERENCE NO. R-5921		SHEET NO. 25	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
 TGS ENGINEERS 201 W. MARION ST STE 200 SHELBY, NC 28150 PH: (704) 476-0003 CORP. LICENSE NO.: C-0275			



MATCH LINE STA -L- 274+00.00
 MATCH TO SHEET NO. 24

MATCH LINE STA -L- 288+00.00
 MATCH TO SHEET NO. 26

-L- CURVE DATA

PI Sta 270+32.42	PI Sta 291+79.81
$\Delta = 12^{\circ} 00' 10.8''$ (LT)	$\Delta = 3^{\circ} 35' 06.0''$ (RT)
$D = 0^{\circ} 59' 47.2''$	$D = 0^{\circ} 22' 55.1''$
$L = 1204.58'$	$L = 938.55'$
$T = 604.50'$	$T = 469.43'$
$R = 5,750.00'$	$R = 15,000.00'$
SE = EXIST.	SE = EXIST.
DS = 60 MPH	DS = 60 MPH

NOTE: ALL DRIVEWAYS ARE TO BE ASPHALT UNLESS OTHERWISE NOTED.

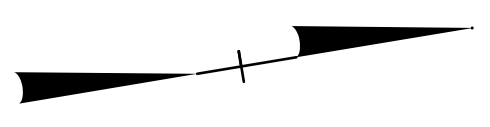


REVISIONS

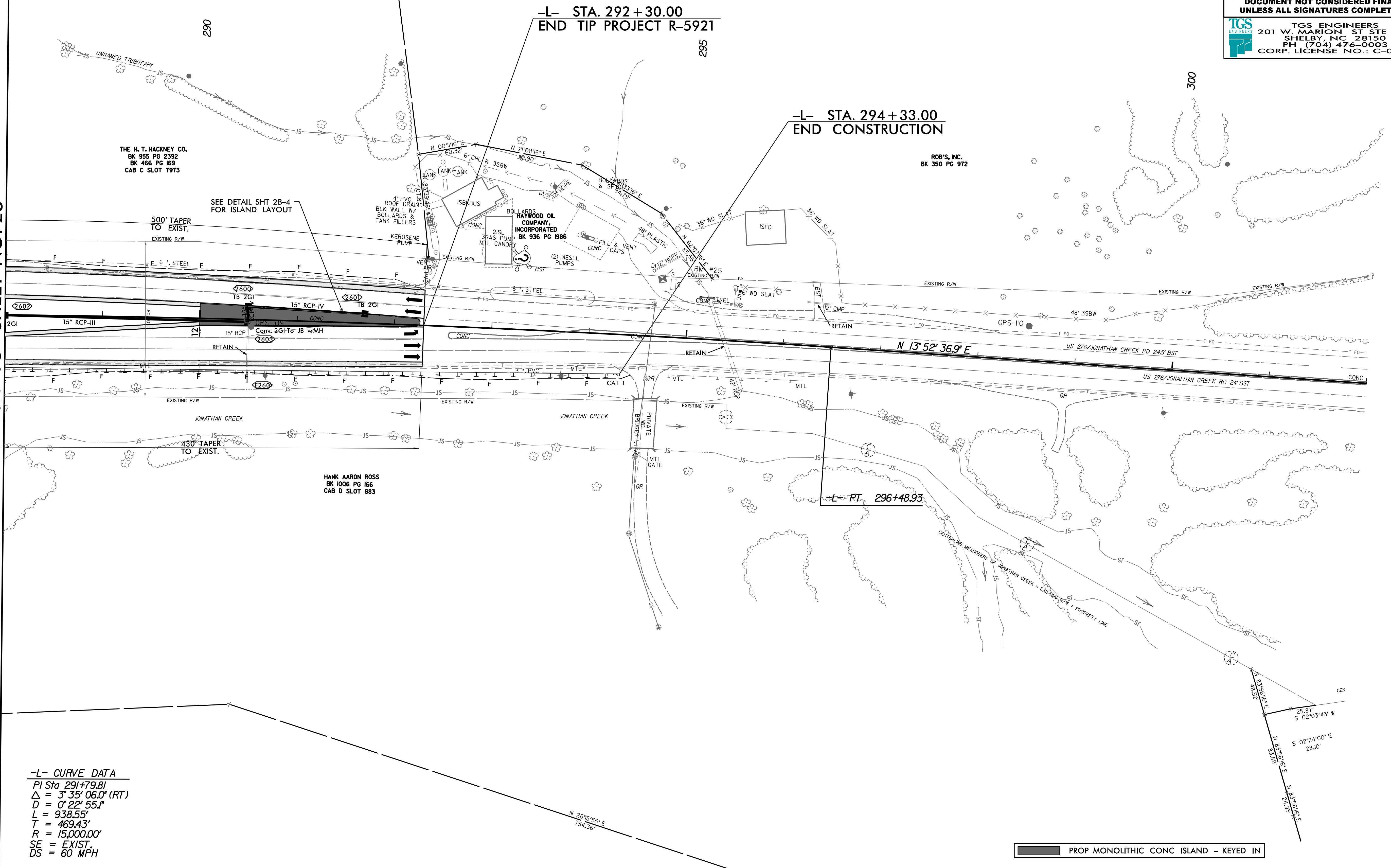
8/17/2024
 8/20/2024
 8/22/2024
 R:\Roadway\5921\Roadway\Proc\N\5921_Rdy_psh_25.dgn
 User: jsmal

NOTE: ALL DRIVEWAYS ARE TO BE ASPHALT UNLESS OTHERWISE NOTED.

PROJECT REFERENCE NO. R-5921	SHEET NO. 26
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
TGS ENGINEERS 201 W. MARION ST STE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	



MATCH LINE STA -L- 288+00.00
MATCH TO SHEET NO. 25



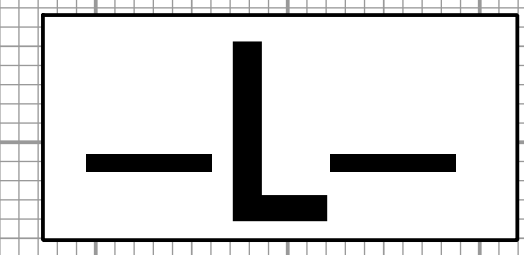
-L- CURVE DATA
 PI Sta 291+79.81
 $\Delta = 3^{\circ} 35' 06.0" (RT)$
 $D = 0^{\circ} 22' 55.1"$
 $L = 938.55'$
 $T = 469.43'$
 $R = 15,000.00'$
 SE = EXIST.
 DS = 60 MPH

PROP MONOLITHIC CONC ISLAND - KEYED IN

REVISIONS

8/17/2024
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 8/17/2024

5/28/24



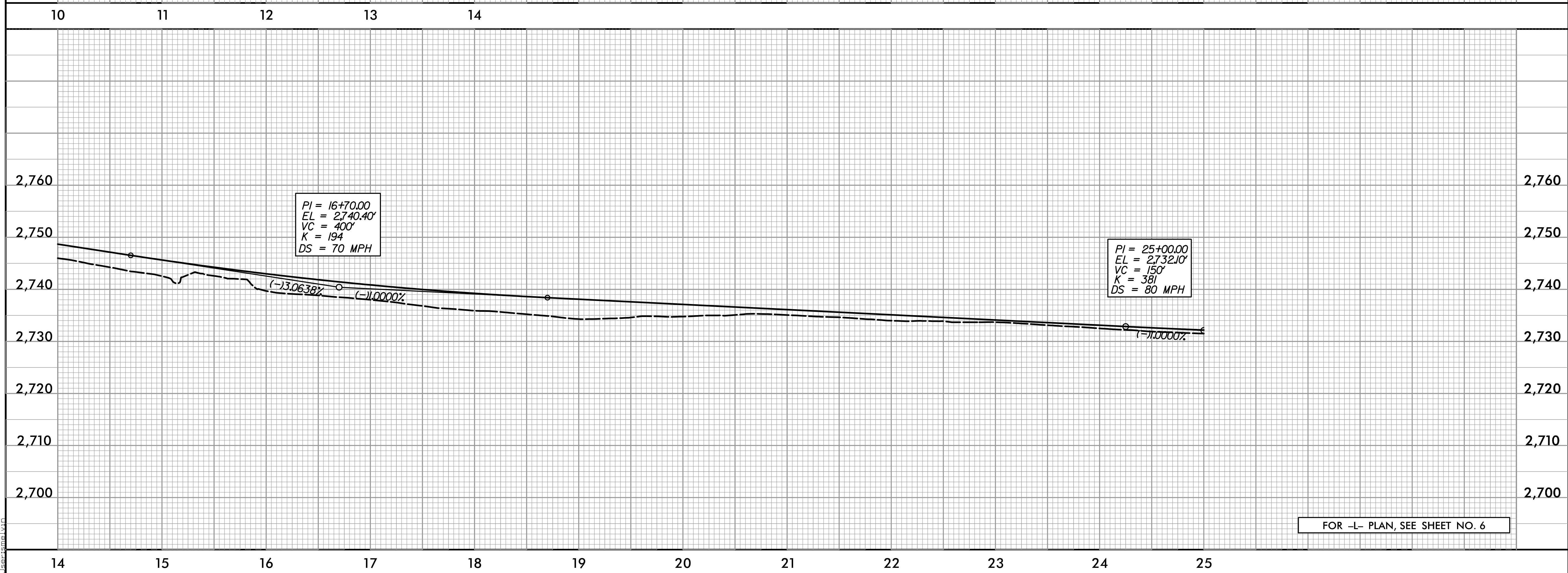
PROJECT REFERENCE NO. R-5921	SHEET NO. 27
ROADWAY DESIGN ENGINEER 	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

TGS ENGINEERS
201 W. MARION ST. STE 200
SHELBY, NC 28150
PH (704) 476-0003
CORP. LICENSE NO.: C-0275



FOR -L- PLAN, SEE SHEET NO. 4



FOR -L- PLAN, SEE SHEET NO. 6

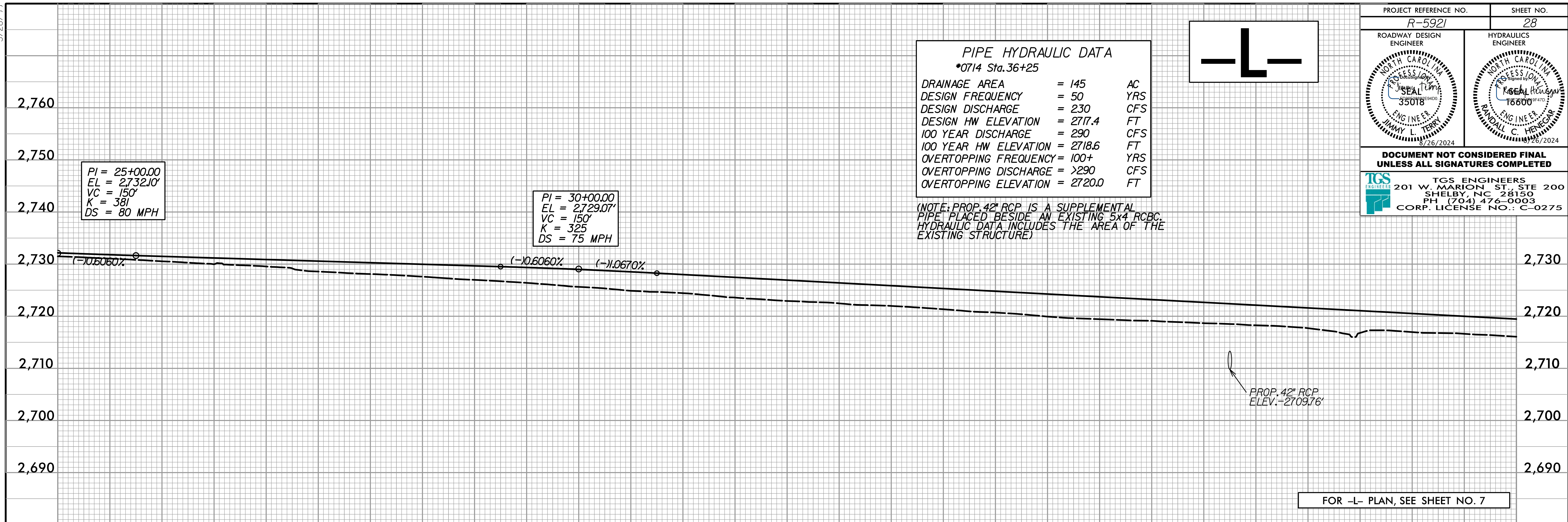
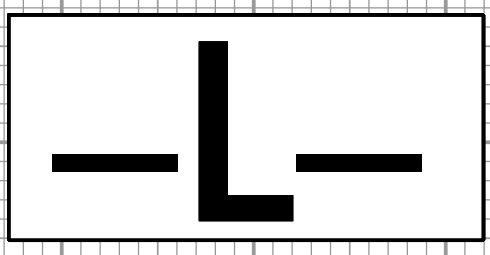
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5/28/24

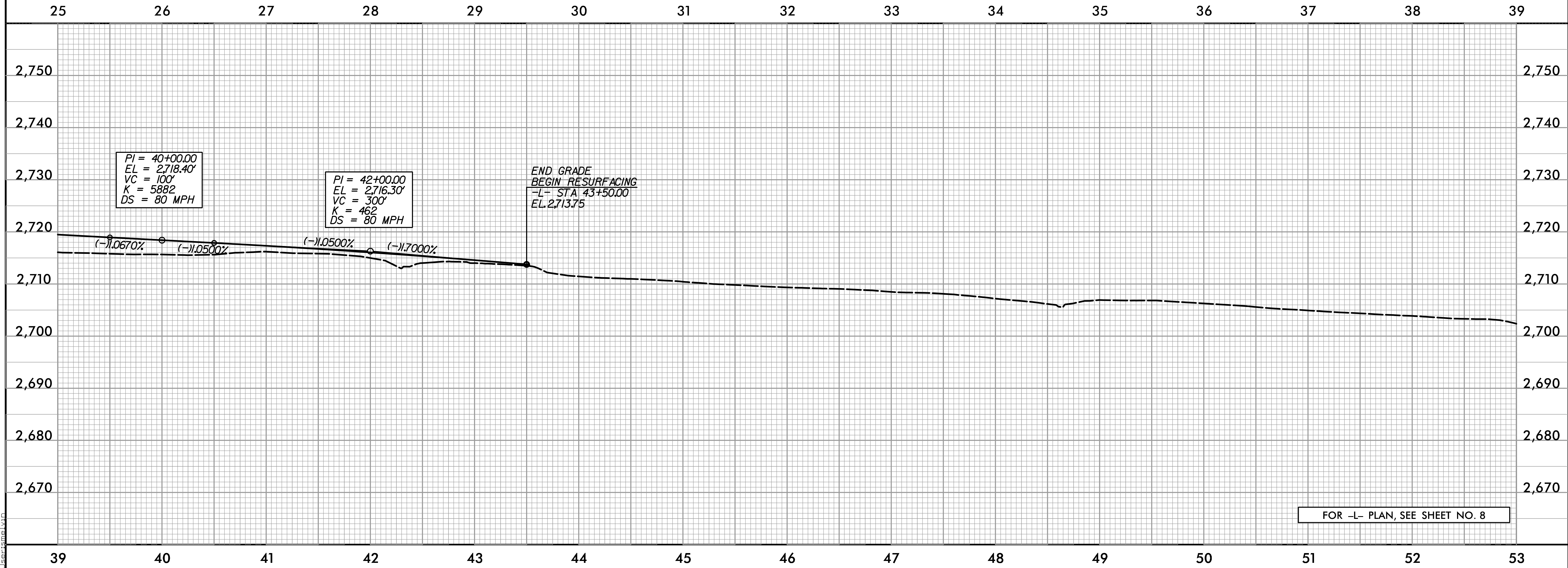
PROJECT REFERENCE NO. R-5921	SHEET NO. 28
ROADWAY DESIGN ENGINEER 	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
TGS ENGINEERS 201 W. MARION ST., STE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	

PIPE HYDRAULIC DATA
 *0714 Sta. 36+25

DRAINAGE AREA	= 145	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 230	CFS
DESIGN HW ELEVATION	= 2717.4	FT
100 YEAR DISCHARGE	= 290	CFS
100 YEAR HW ELEVATION	= 2718.6	FT
OVERTOPPING FREQUENCY	= 100+	YRS
OVERTOPPING DISCHARGE	= >290	CFS
OVERTOPPING ELEVATION	= 2720.0	FT



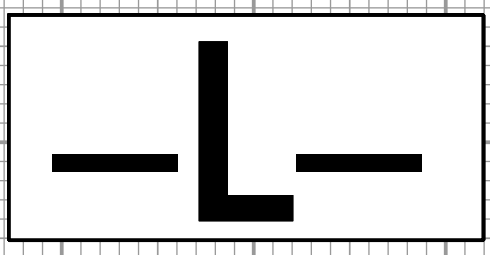
FOR -L- PLAN, SEE SHEET NO. 7



FOR -L- PLAN, SEE SHEET NO. 8

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5/28/24



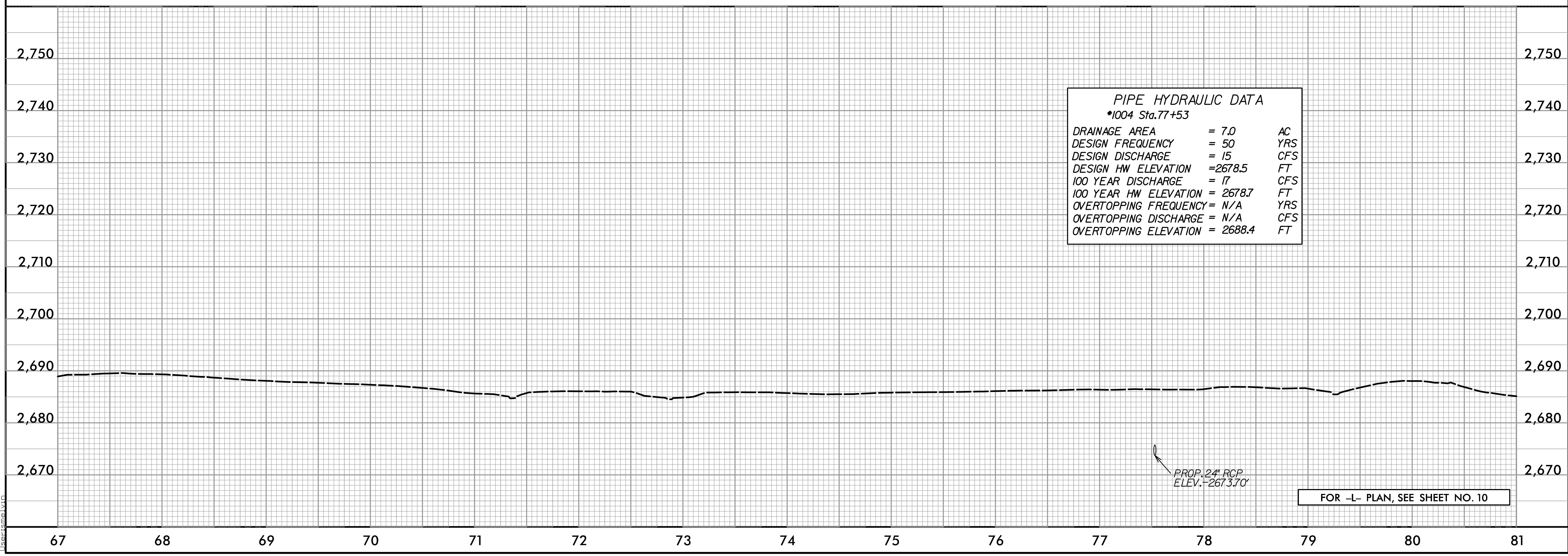
PROJECT REFERENCE NO. <i>R-5921</i>	SHEET NO. <i>29</i>
ROADWAY DESIGN ENGINEER <i>SEAL Terry</i> 35018 8/26/2024	HYDRAULICS ENGINEER <i>SEAL Henry</i> 16800 8/26/2024

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

TGS ENGINEERS
 201 W. MARION ST. STE 200
 SHELBY, NC 28150
 PH (704) 476-0003
 CORP. LICENSE NO.: C-0275



FOR -L- PLAN, SEE SHEET NO. 9



PIPE HYDRAULIC DATA
 *1004 Sta.77+53

DRAINAGE AREA	= 7.0	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 15	CFS
DESIGN HW ELEVATION	= 2678.5	FT
100 YEAR DISCHARGE	= 17	CFS
100 YEAR HW ELEVATION	= 2678.7	FT
OVERTOPPING FREQUENCY	= N/A	YRS
OVERTOPPING DISCHARGE	= N/A	CFS
OVERTOPPING ELEVATION	= 2688.4	FT

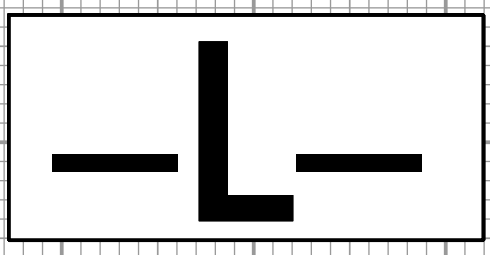
PROP. 24" RCP
 ELEV. = 2673.70'

FOR -L- PLAN, SEE SHEET NO. 10

5/28/2024
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 User:smal

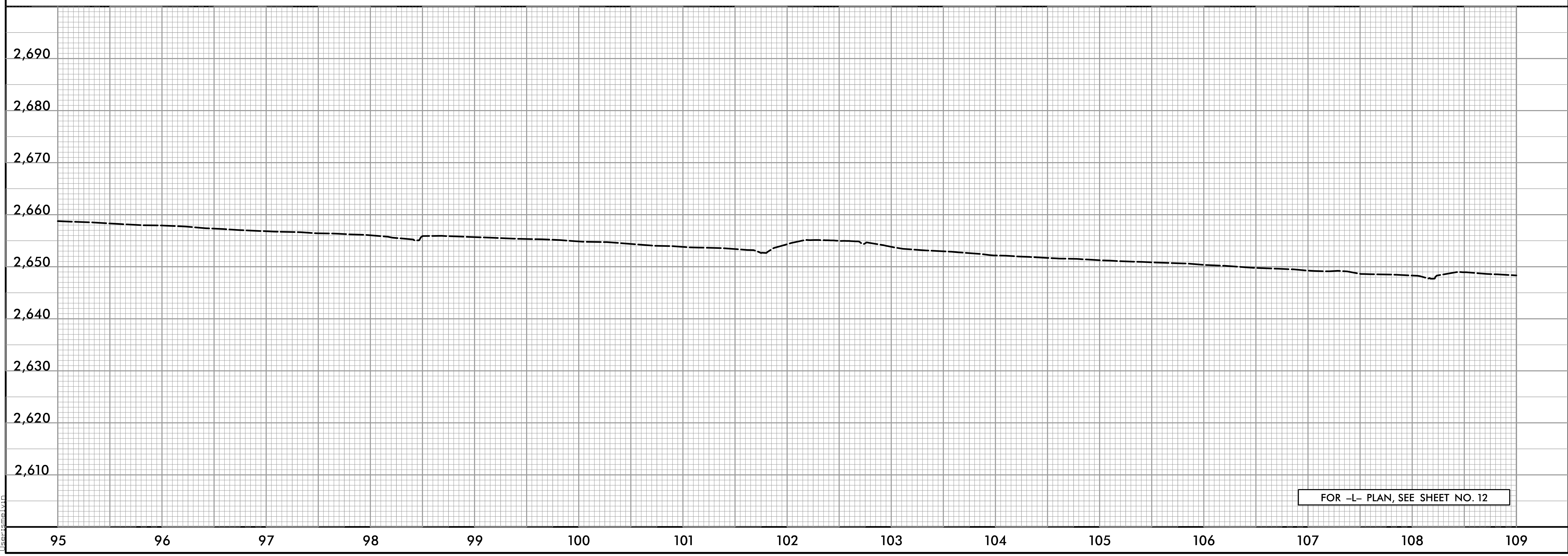
5/28/24

PROJECT REFERENCE NO. <i>R-5921</i>	SHEET NO. <i>30</i>
ROADWAY DESIGN ENGINEER <i>Jimmy L. Terry</i>	HYDRAULICS ENGINEER <i>Michael C. Hensgar</i>
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
TGS ENGINEERS 201 W. MARION ST. STE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	



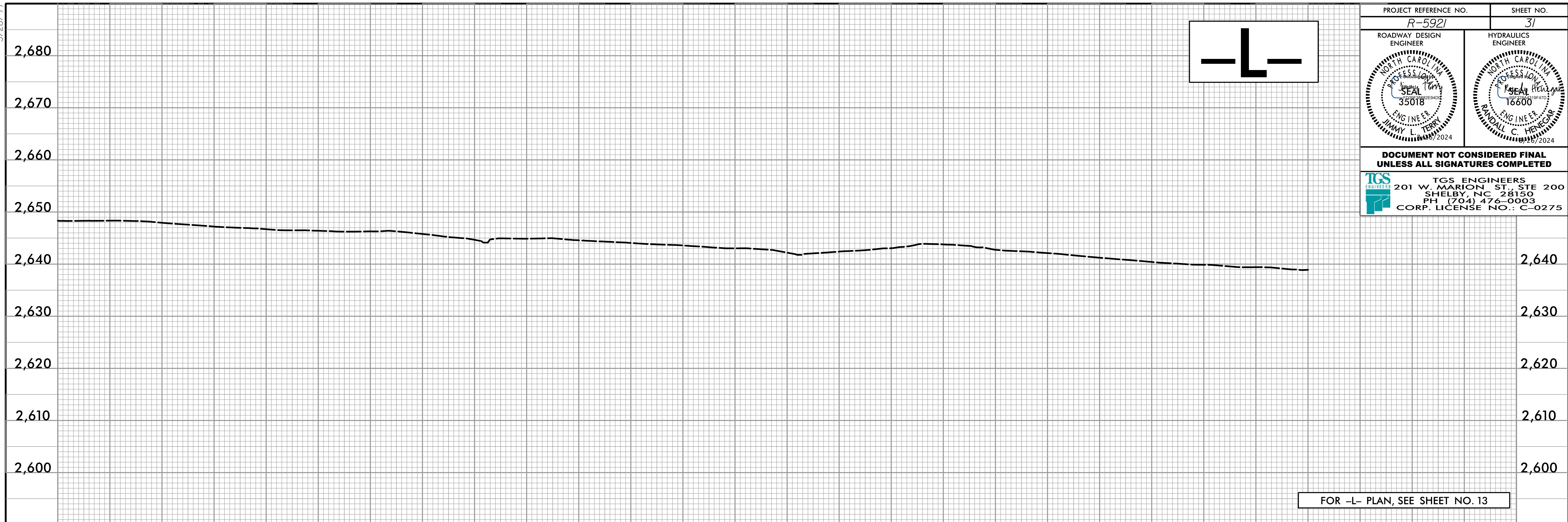
FOR -L- PLAN, SEE SHEET NO. 11

5/28/2024
C:\Users\jerry\OneDrive\Documents\Roadway\Proj\R-5921_Rdy.pfl.dgn

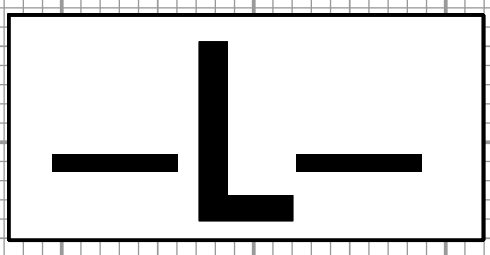


FOR -L- PLAN, SEE SHEET NO. 12

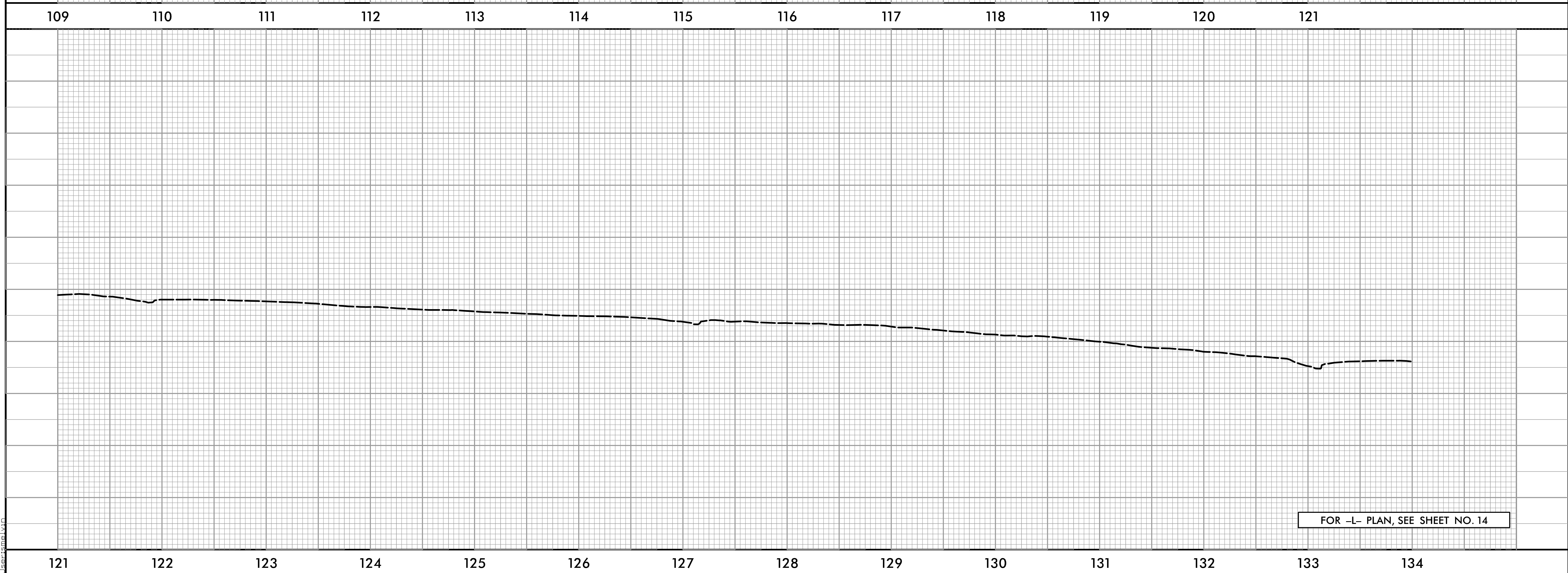
5/28/99



PROJECT REFERENCE NO. <i>R-5921</i>	SHEET NO. <i>31</i>
ROADWAY DESIGN ENGINEER 	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
TGS ENGINEERS 201 W. MARION ST. STE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	

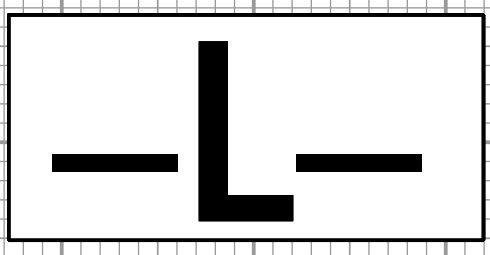


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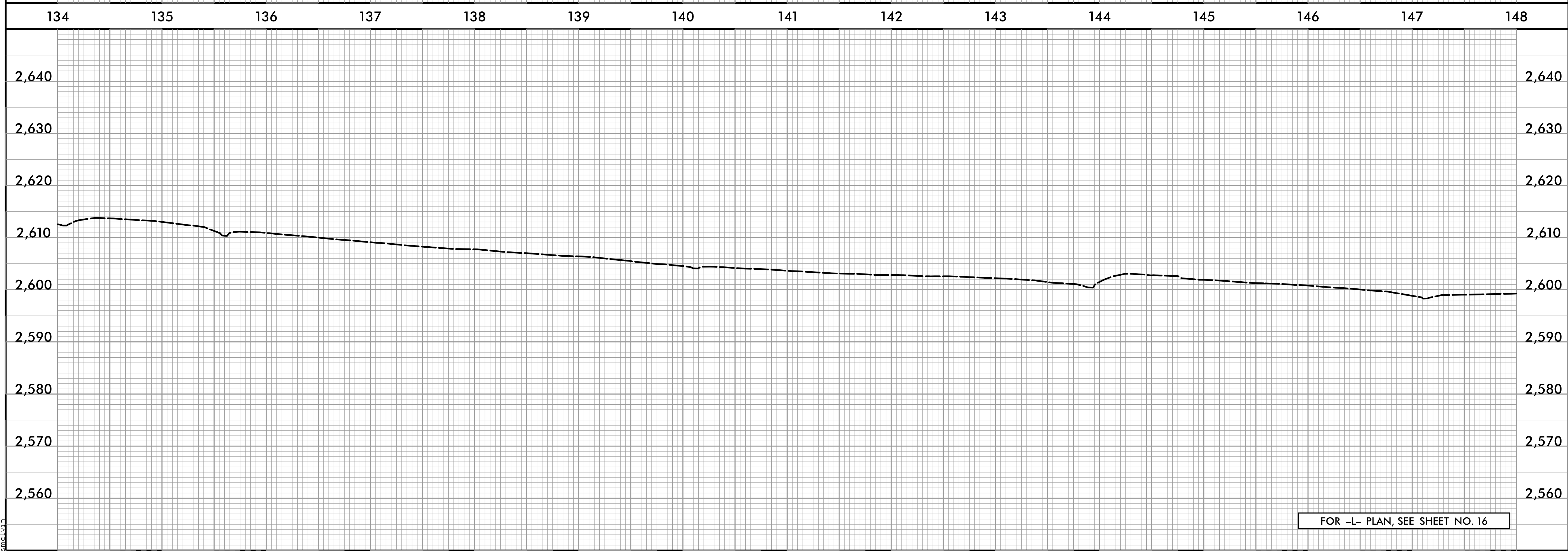
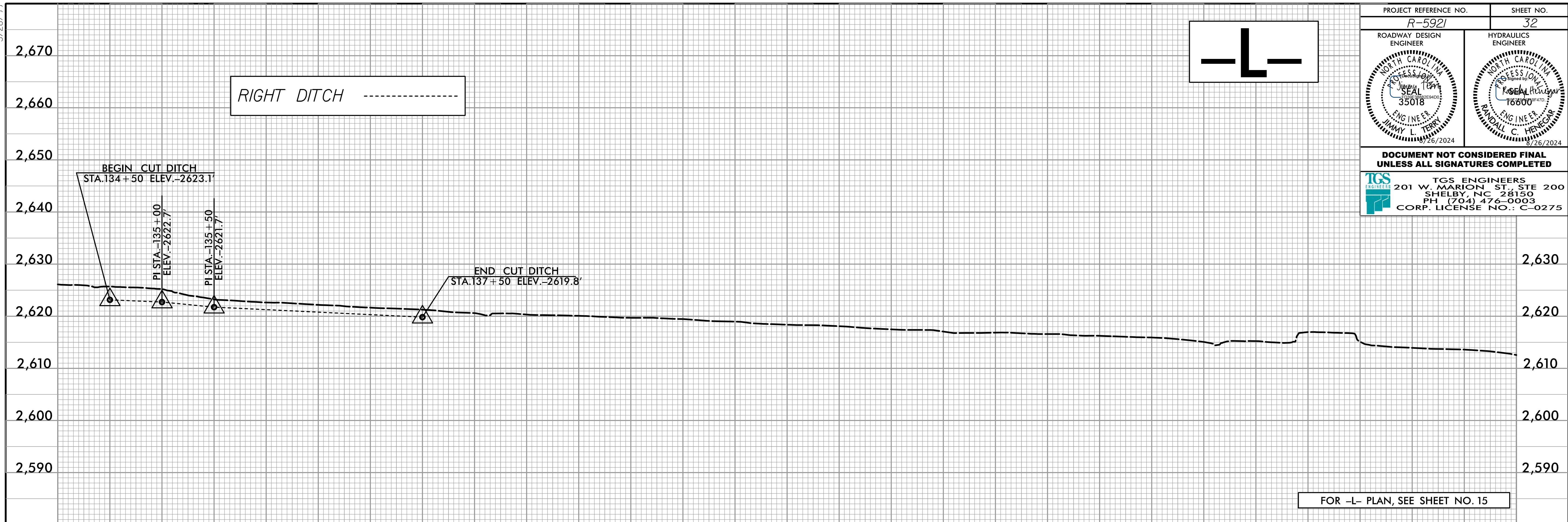


5/28/24

PROJECT REFERENCE NO. <i>R-5921</i>	SHEET NO. <i>32</i>
ROADWAY DESIGN ENGINEER 	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
 TGS ENGINEERS 201 W. MARION ST., STE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	

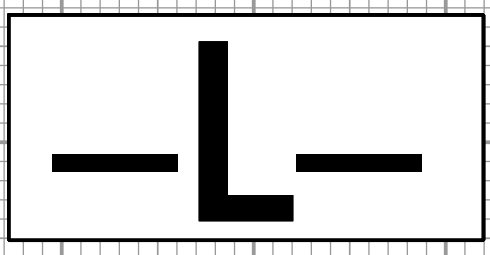


RIGHT DITCH -----

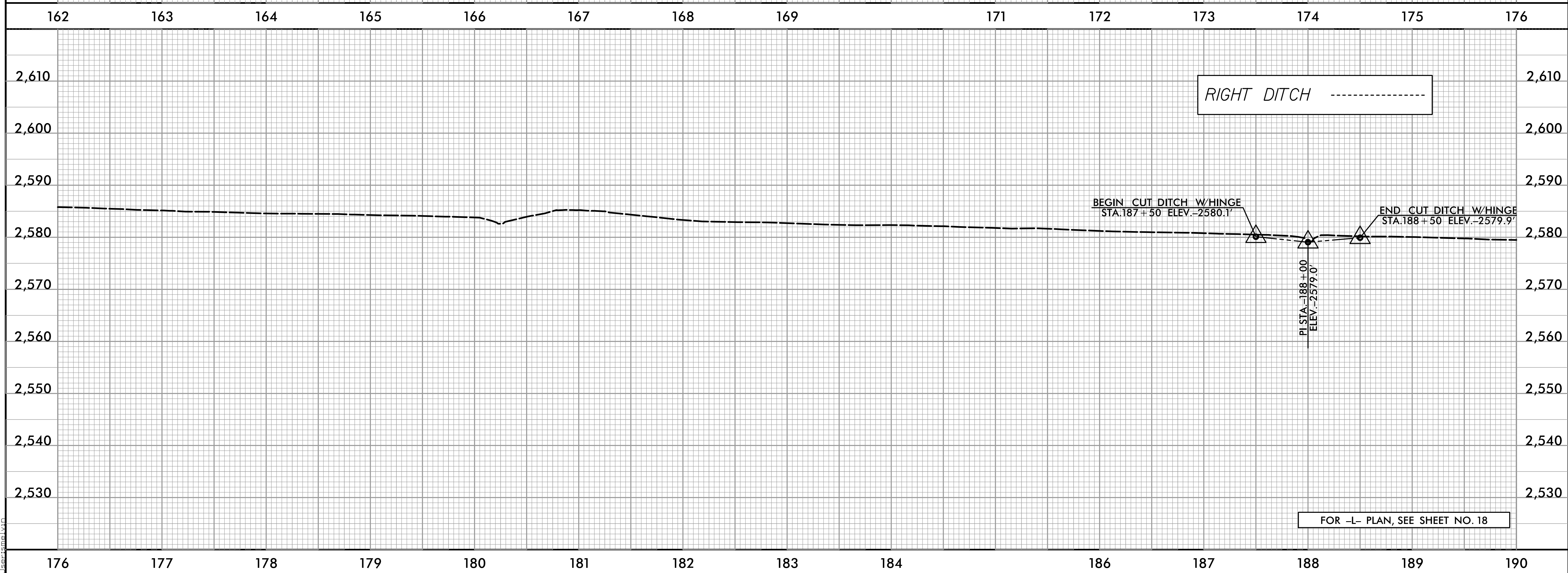
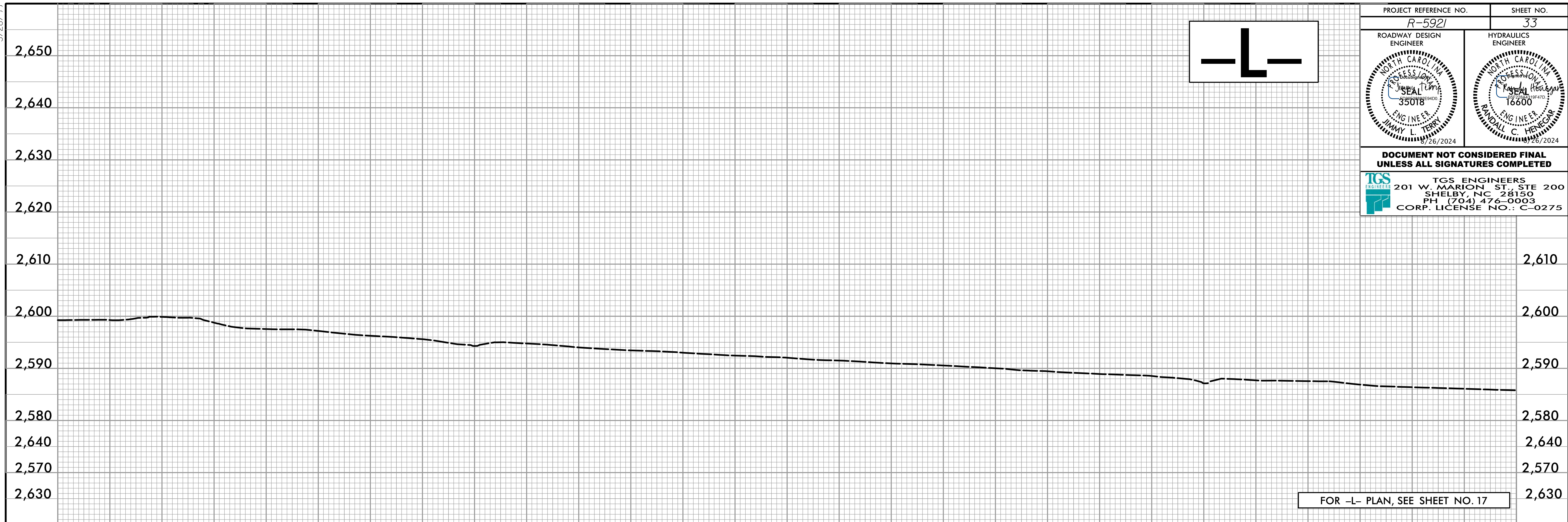


5/28/2024 11:53:00 AM R:\Roadway\Proj\R-5921_Rdy.pfl.dgn

5/28/24

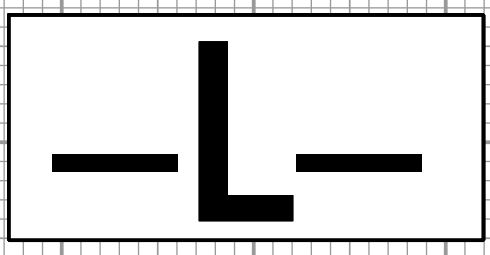


PROJECT REFERENCE NO. <i>R-5921</i>	SHEET NO. <i>33</i>
ROADWAY DESIGN ENGINEER <i>[Signature]</i>	HYDRAULICS ENGINEER <i>[Signature]</i>
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
 TGS ENGINEERS 201 W. MARION ST., STE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	

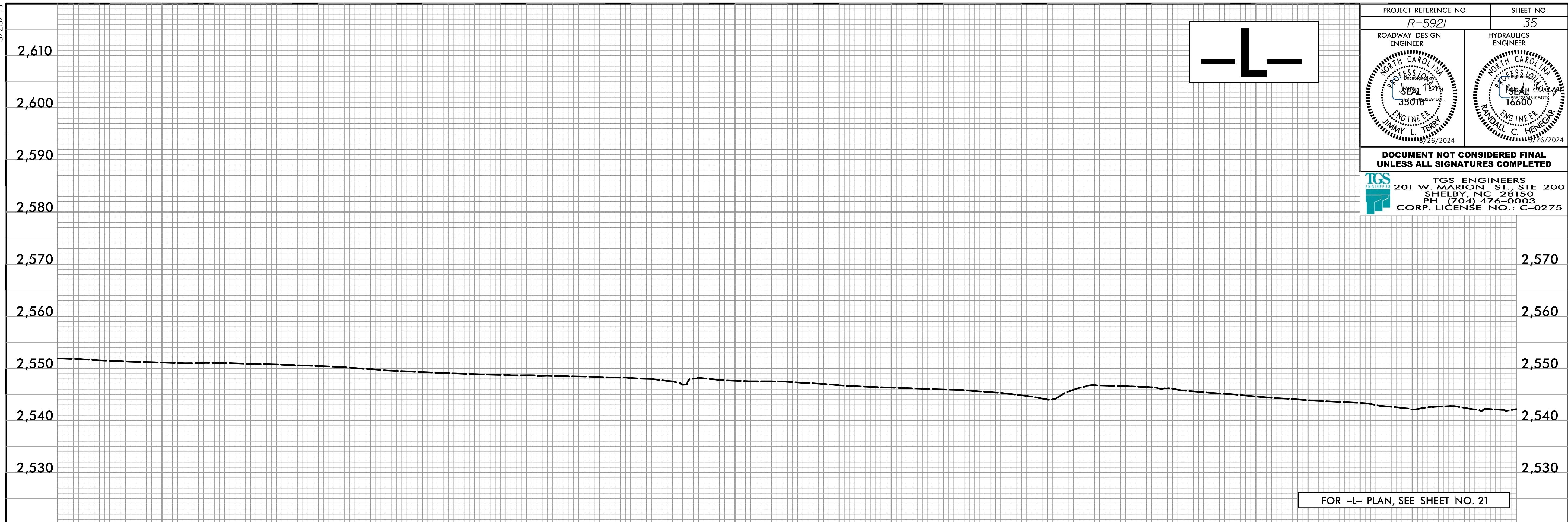


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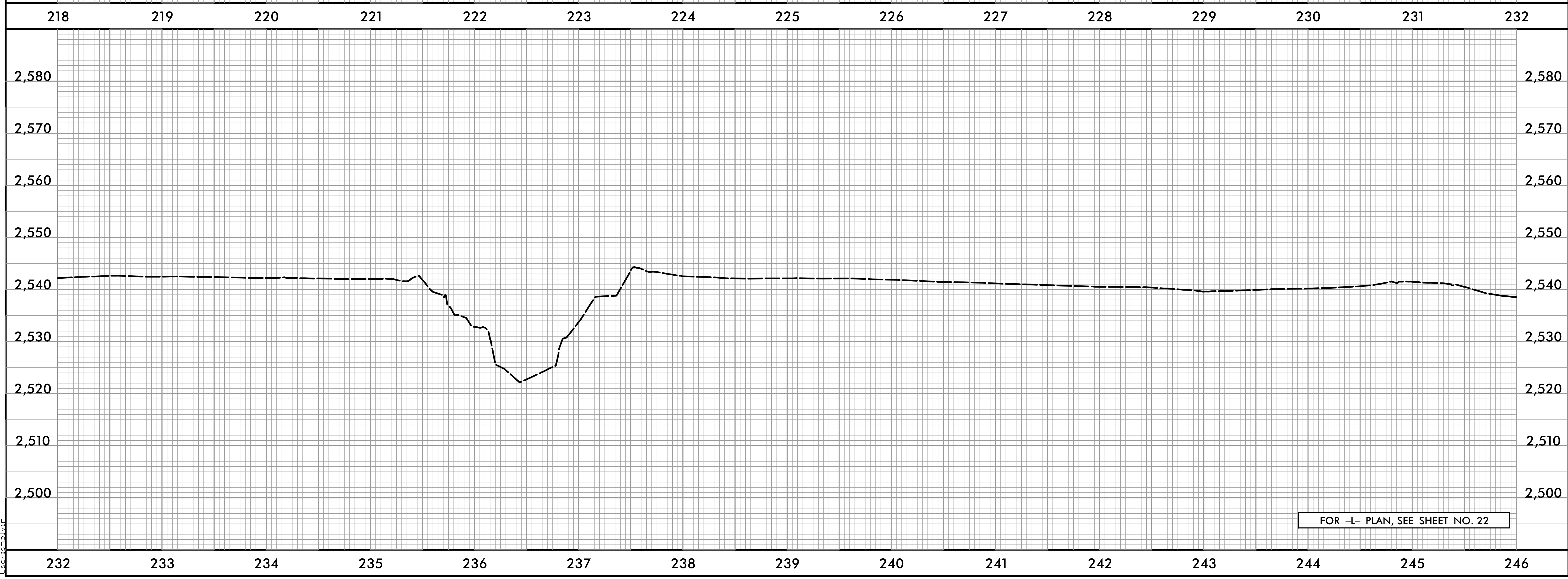


PROJECT REFERENCE NO. <i>R-5921</i>	SHEET NO. <i>35</i>
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DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
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FOR -L- PLAN, SEE SHEET NO. 21

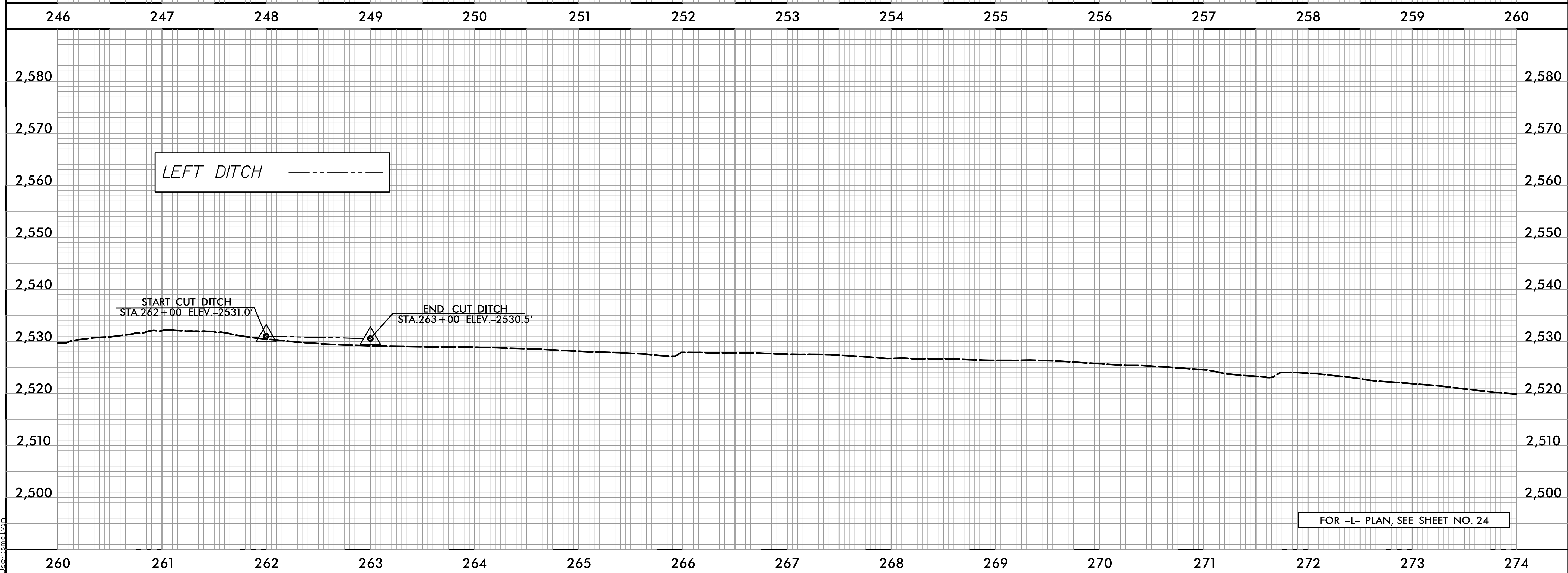
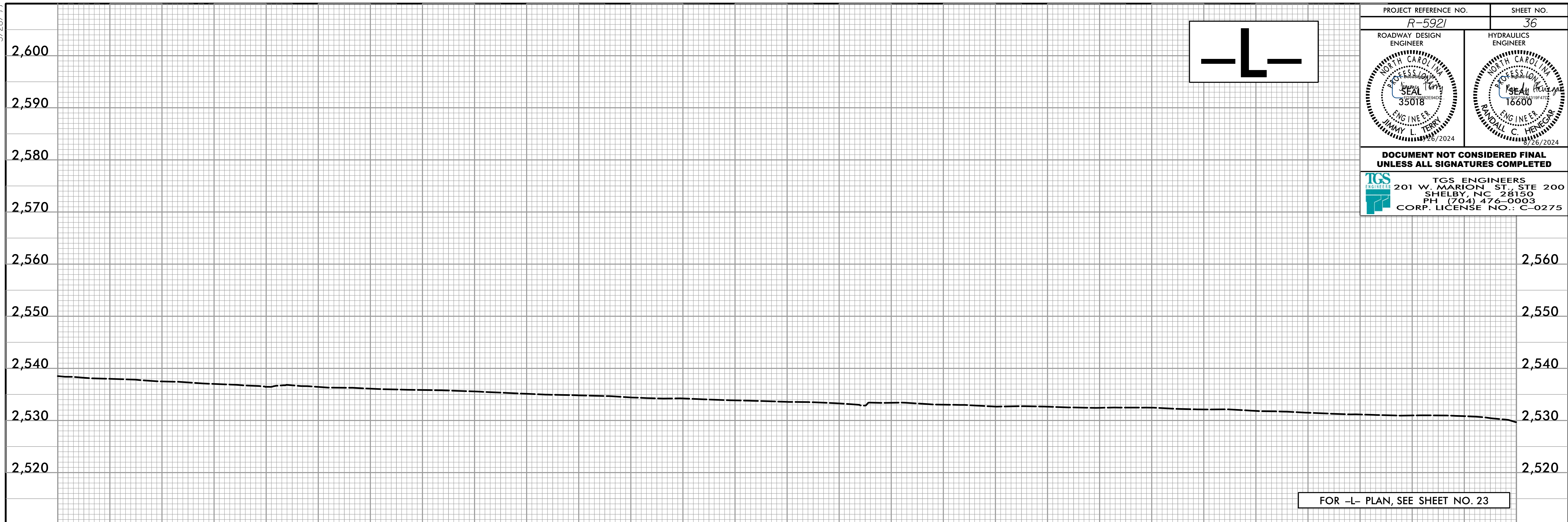
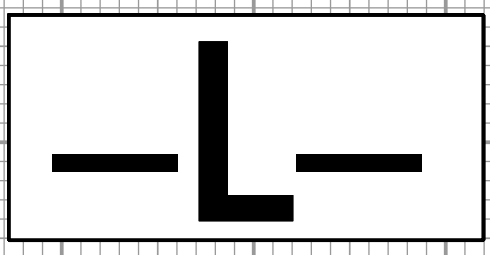
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FOR -L- PLAN, SEE SHEET NO. 22

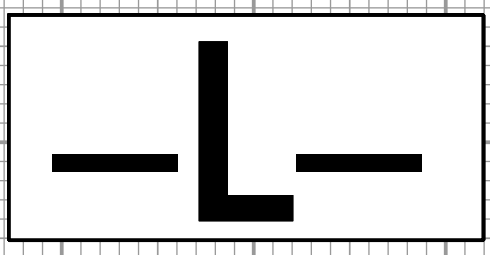
5/28/24

PROJECT REFERENCE NO. <i>R-5921</i>	SHEET NO. <i>36</i>
ROADWAY DESIGN ENGINEER 	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
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5/28/2024
C:\Users\jerry\OneDrive\Documents\Roadway\Proj\R-5921_Rdy.plt.dgn

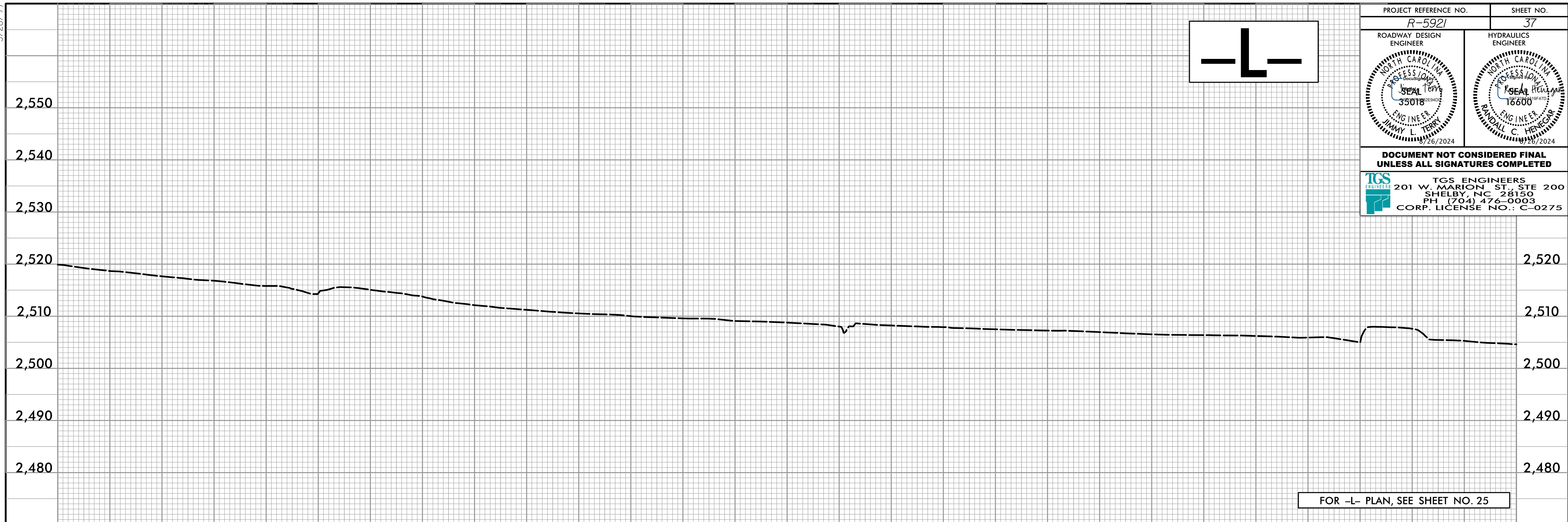
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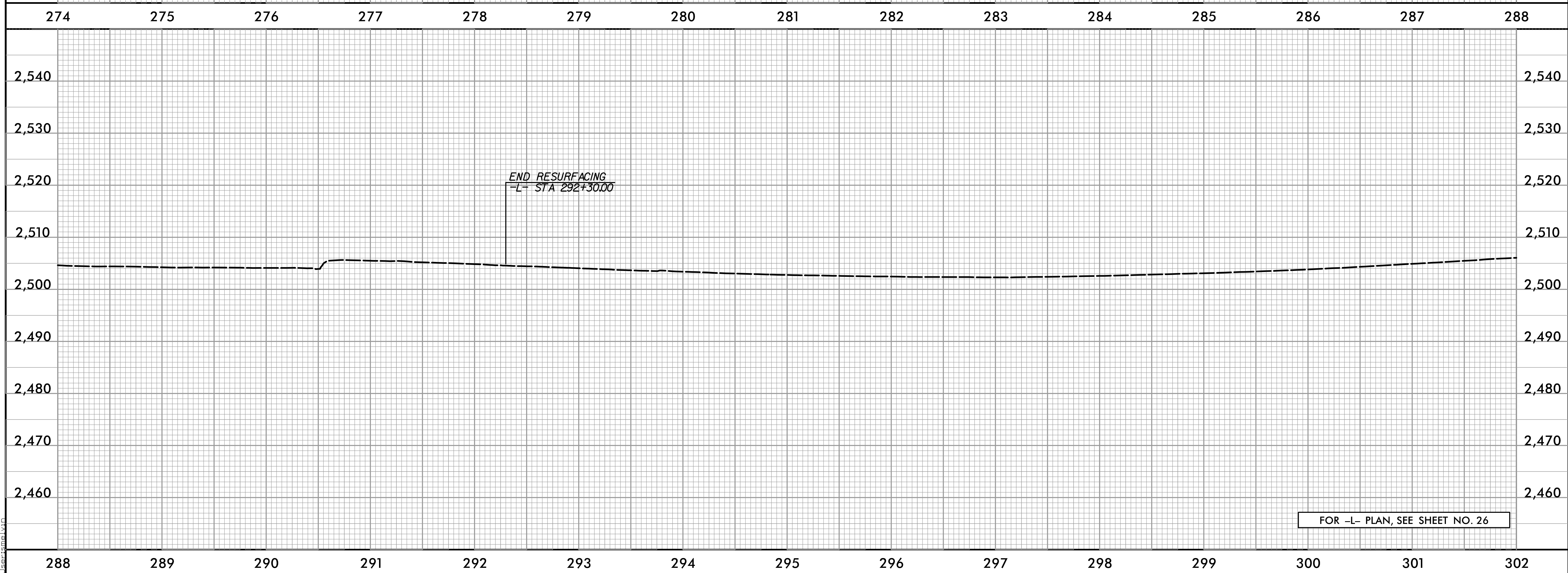
PROJECT REFERENCE NO. <i>R-5921</i>	SHEET NO. 37
ROADWAY DESIGN ENGINEER 	HYDRAULICS ENGINEER

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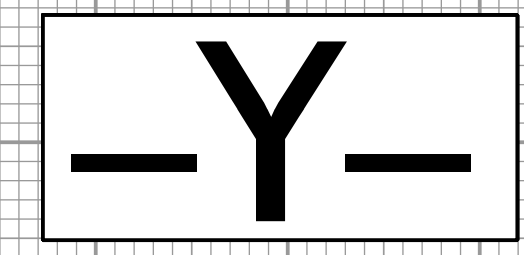


END RESURFACING
-L- STA 292+30.00

FOR -L- PLAN, SEE SHEET NO. 26

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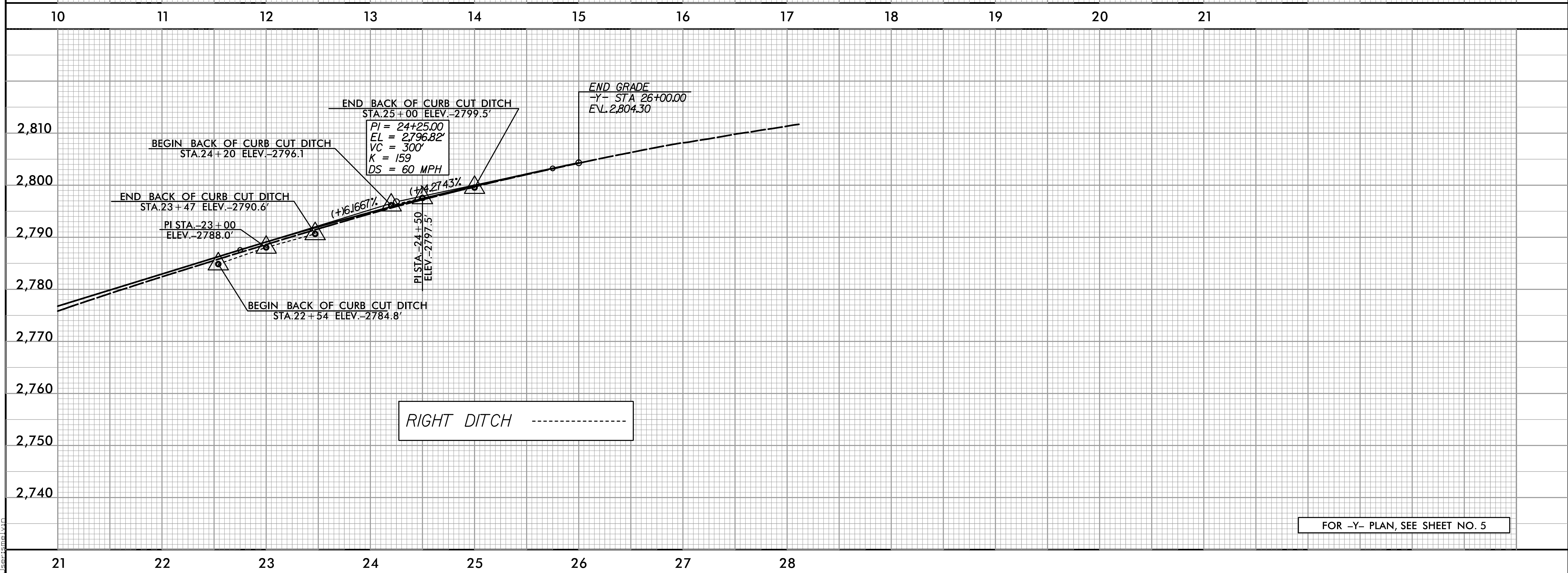
5/28/24



PROJECT REFERENCE NO. <i>R-5921</i>	SHEET NO. <i>38</i>
ROADWAY DESIGN ENGINEER <i>[Signature]</i>	HYDRAULICS ENGINEER <i>[Signature]</i>
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
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FOR -Y- PLAN, SEE SHEET NO. 4



FOR -Y- PLAN, SEE SHEET NO. 5

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