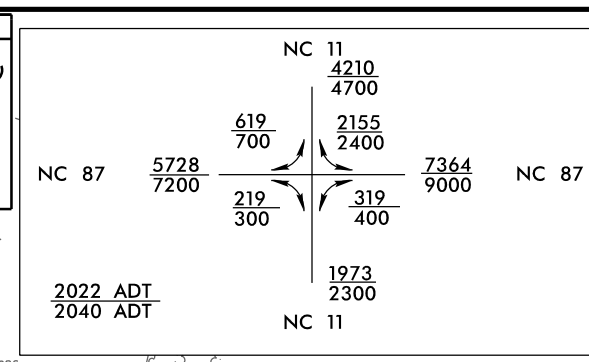


-RPB-				-RPD-			
Pis Sta 11+33.46	Pi Sta 14+00.35	Pis Sta 16+58.53	Pis Sta 19+25.21	Pi Sta 21+90.28	Pis Sta 11+33.46	Pi Sta 13+90.42	Pis Sta 16+39.89
Es = 7' 33' 31"	Δ = 29' 13' 48.3" (RT)	Es = 7' 33' 31"	Es = 7' 33' 31"	Es = 7' 33' 31"	Es = 7' 33' 31"	Es = 7' 33' 31"	Es = 7' 33' 31"
Ls = 600.00	D = 200.00	Ls = 600.00	Ls = 600.00	Ls = 600.00	Ls = 600.00	Ls = 600.00	Ls = 600.00
LT = 133.46	LT = 133.46	LT = 133.46	LT = 133.46	LT = 133.46	LT = 133.46	LT = 133.46	LT = 133.46
ST = 667.8	ST = 667.8	ST = 667.8	ST = 667.8	ST = 667.8	ST = 667.8	ST = 667.8	ST = 667.8
R = 75800	R = 75800	R = 75800	R = 75800	R = 75800	R = 75800	R = 75800	R = 75800
S.E. = 8x	S.E. = 8x	S.E. = 8x	S.E. = 8x	S.E. = 8x	S.E. = 8x	S.E. = 8x	S.E. = 8x
RD. = 200'	RD. = 200'	RD. = 200'	RD. = 200'	RD. = 200'	RD. = 200'	RD. = 200'	RD. = 200'

NOTE: CLEAR ENTIRE AREA INSIDE OF LOOPS FOR QUADRANTS B AND D.



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PROJECT REFERENCE NO. R-256/CA
SHEET NO. 7

ROADWAY DESIGN
ENGINEER
HYDRAULICS ENGINEER

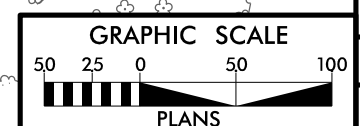
2022 ADT
2040 ADT

NC 11
619 700
2155 2400
219 300
319 400
7364 9000
1973 2300
NC 11

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

-LPD-		-Y-		-DRS-	
Pis Sta 11+07.24	Pi Sta 17+17.29	Pis Sta 18+05.15	Pi Sta 19+19.92	Pi Sta 19+93.89	Pi Sta 11+07.24
Es = 18' 00' 04"	Δ = 135' 37' 49.5" (RT)	Es = 18' 00' 04"	Δ = 17' 37' 59.5" (RT)	Es = 18' 00' 04"	Es = 18' 00' 04"
Ls = 600.00	D = 22' 55' 05.5"	Ls = 600.00	D = 1' 00' 09.7"	Ls = 600.00	Ls = 600.00
LT = 107.24	LT = 59.25	LT = 107.24	LT = 129.87	LT = 129.87	LT = 107.24
ST = 53.86	ST = 61.29	ST = 53.86	ST = 57.44	ST = 57.44	ST = 53.86
R = 25000	R = 6129	R = 25000	R = 7500	R = 7500	R = 25000
S.E. = 8x	S.E. = 8x	S.E. = 8x	S.E. = 3x	S.E. = 3x	S.E. = 8x
RD. = 8'	RD. = 8'	RD. = 8'	RD. = NC	RD. = NC	RD. = 8'

SEE SHEET 17 & 18 FOR -L- PROFILE
 SEE SHEET 24 & 25 FOR -Y- PROFILE
 SEE SHEET 20 FOR -LPB- PROFILE
 SEE SHEET 21 FOR -RPB- PROFILE
 SEE SHEET 23 FOR -LPD- PROFILE
 SEE SHEET 22 FOR -RPD- PROFILE
 SEE SHEET 28 FOR -DRS- PROFILE
 SEE SHEET 2B-5 FOR INTERSECTION DETAIL OF -Y/-RPB/-LPB-
 SEE SHEET 2B-5 FOR INTERSECTION DETAIL OF -Y/-RPD/-LPD-
 SEE SHEET 2D-1 FOR DRAINAGE DITCH DETAILS
 SEE SHEETS S1-1 THRU S1-28 STRUCTURE PLANS (-Y- STA. 34+01.72)
 SEE SHEETS S3-1 THRU S3-30 FOR STRUCTURE PLANS (-L- STA. 70+34.00)
 SEE SHEETS S4-1 THRU S4-29 FOR STRUCTURE PLANS (-L- STA. 71+06.00)



DATE: _____

PREPARED BY: _____

CHECKED BY: _____

DATE: _____

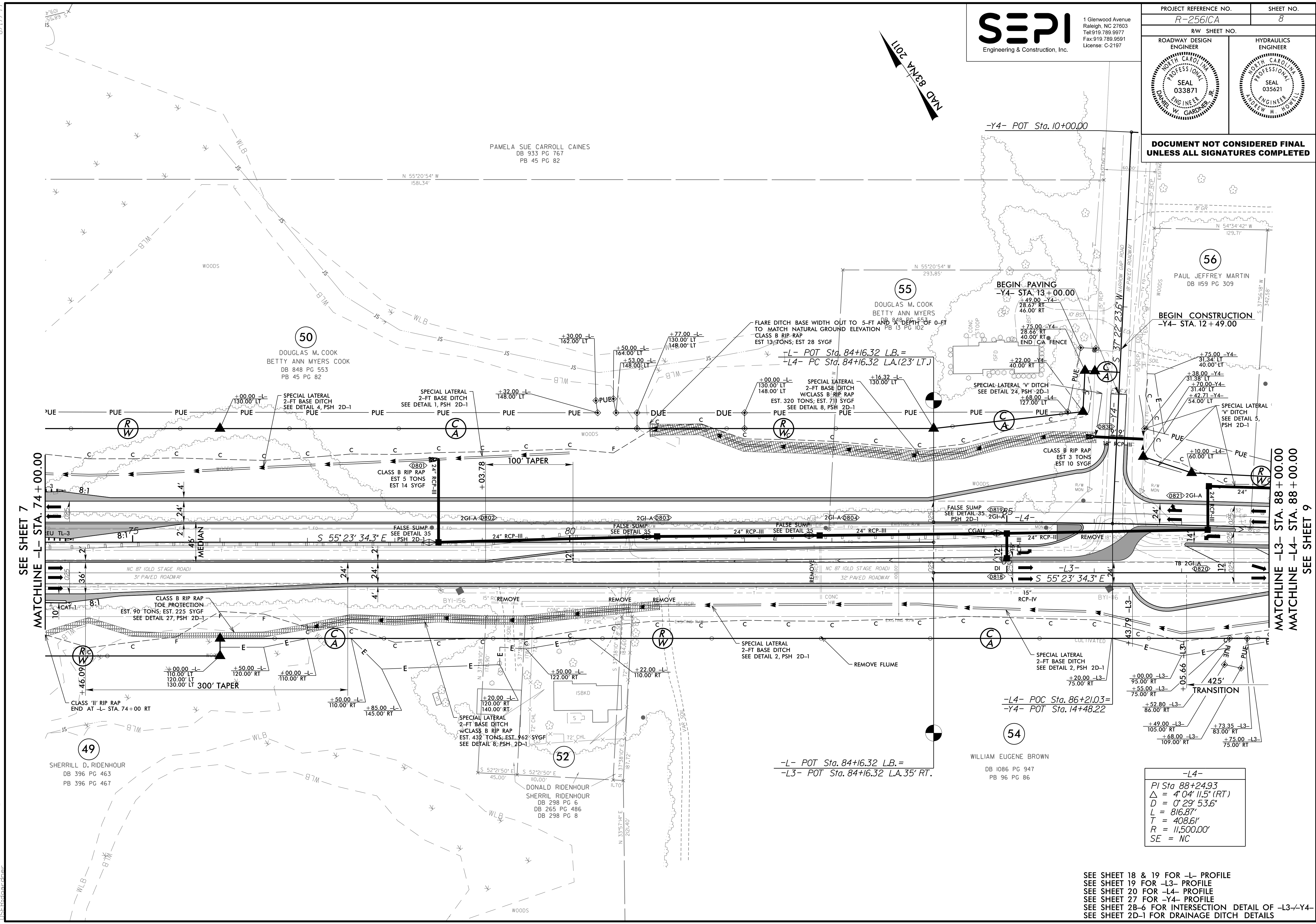


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PROJECT REFERENCE NO. R-2561CA	SHEET NO. 8
ROADWAY DESIGN ENGINEER DANIEL W. GARDNER, JR.	HYDRAULICS ENGINEER WILLIAM E. HOVELL

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8/26/2014 11:58:14 AM R-2561CA-Rdy_psh_8.dgn



-L4-
 PI Sta 88+24.93
 $\Delta = 4' 04'' 11.5'' (RT)$
 $D = 0' 29'' 53.6''$
 $L = 816.87'$
 $T = 408.61'$
 $R = 11,500.00'$
 $SE = NC$

SEE SHEET 18 & 19 FOR -L- PROFILE
 SEE SHEET 19 FOR -L3- PROFILE
 SEE SHEET 20 FOR -L4- PROFILE
 SEE SHEET 27 FOR -Y4- PROFILE
 SEE SHEET 2B-6 FOR INTERSECTION DETAIL OF -L3--Y4-
 SEE SHEET 2D-1 FOR DRAINAGE DITCH DETAILS

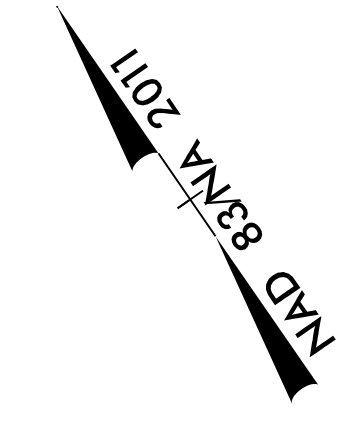
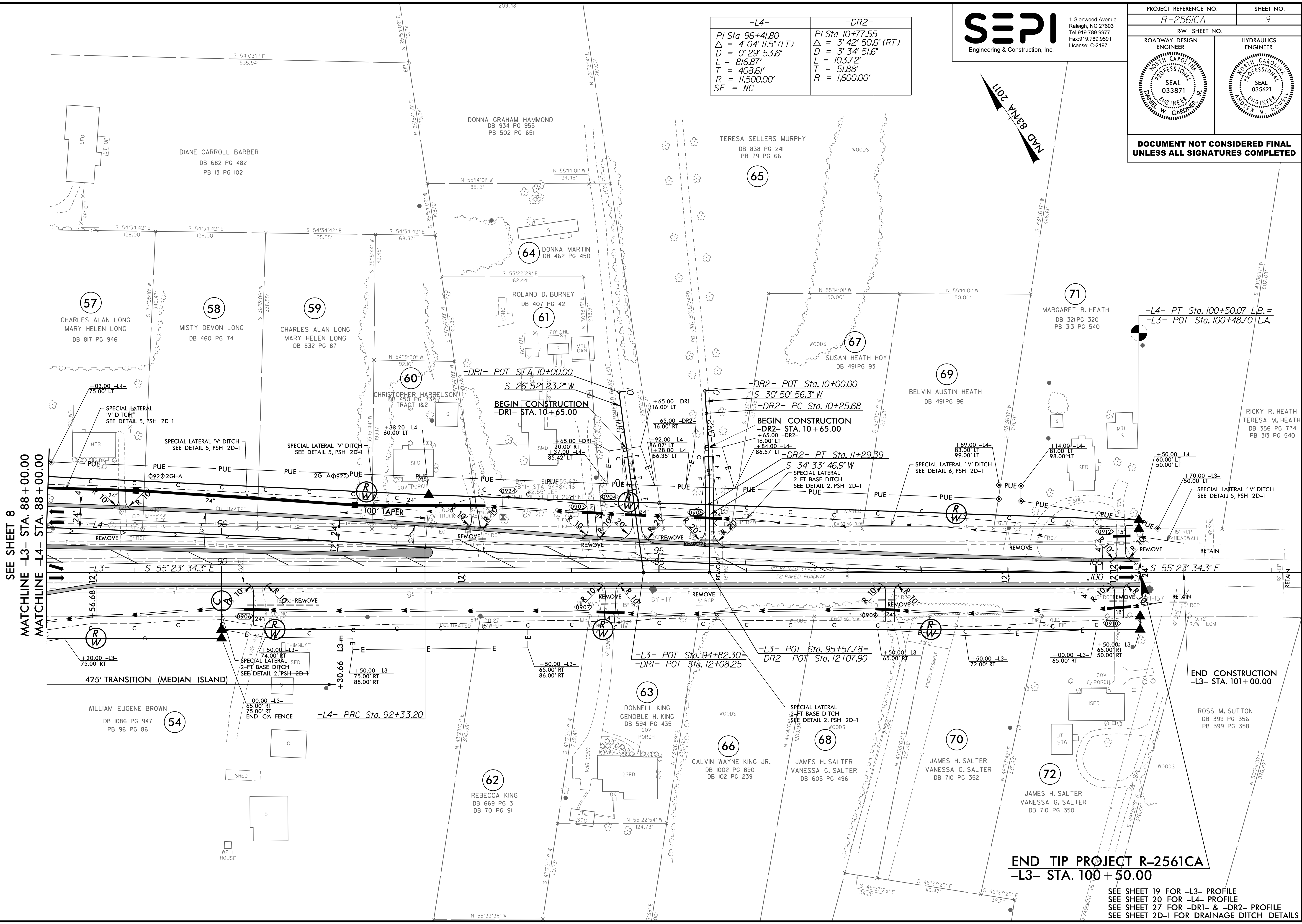
8/17/99
8/25/2014 R-2561CA_Rdy_psh_9.dgn
US:R:\psh\psh_9.dgn

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PROJECT REFERENCE NO. R-2561CA	SHEET NO. 9
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	PROFESSIONAL SEAL 033871 DANIEL W. GARDNER, JR.
	PROFESSIONAL SEAL 035621 ANDREW N. HOFFER

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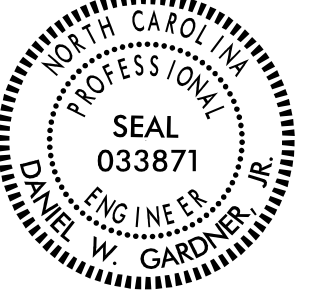
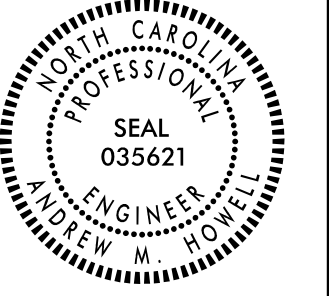
-L4-	-DR2-
PI Sta 96+41.80	PI Sta 10+77.55
$\Delta = 4^{\circ} 04' 11.5" (LT)$	$\Delta = 3^{\circ} 42' 50.6" (RT)$
$D = 0^{\circ} 29' 53.6"$	$D = 3^{\circ} 34' 51.6"$
$L = 816.87'$	$L = 103.72'$
$T = 408.61'$	$T = 51.88'$
$R = 11,500.00'$	$R = 1,600.00'$
SE = NC	



8/17/99

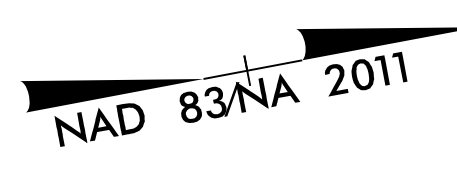
8/26/2004 R-2561CA_Rdy_psh_110.dgn
11:51:40:00

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PROJECT REFERENCE NO. <i>R-2561CA</i>		SHEET NO. <i>10</i>	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
			
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-Y-

PI Sta 19+51.92
 $\Delta = 17^{\circ} 57' 59.5" (RT)$
 $D = 1'00' 09.7"$
 $L = 1,791.81'$
 $T = 903.32'$
 $R = 5,714.14'$
 $S.E. = 3\%$
 $R.O. = 81'$



DWAYNE WILLIAMS
 CONSTANCE W. WILLIAMS
 DB 0 PG 123

DWAYNE L. WILLIAMS
 BETTY L. WILLIAMS
 DB 500 PG 845
 PB 500 PG 847

DWAYNE WILLIAMS
 CONSTANCE W. WILLIAMS
 DB 0 PG 123

DWAYNE WILLIAMS
 CONSTANCE W. WILLIAMS
 DB 0 PG 123

76
 CONSTANCE HALL
 DB 1146 PG 709
 PB 416 PG 971

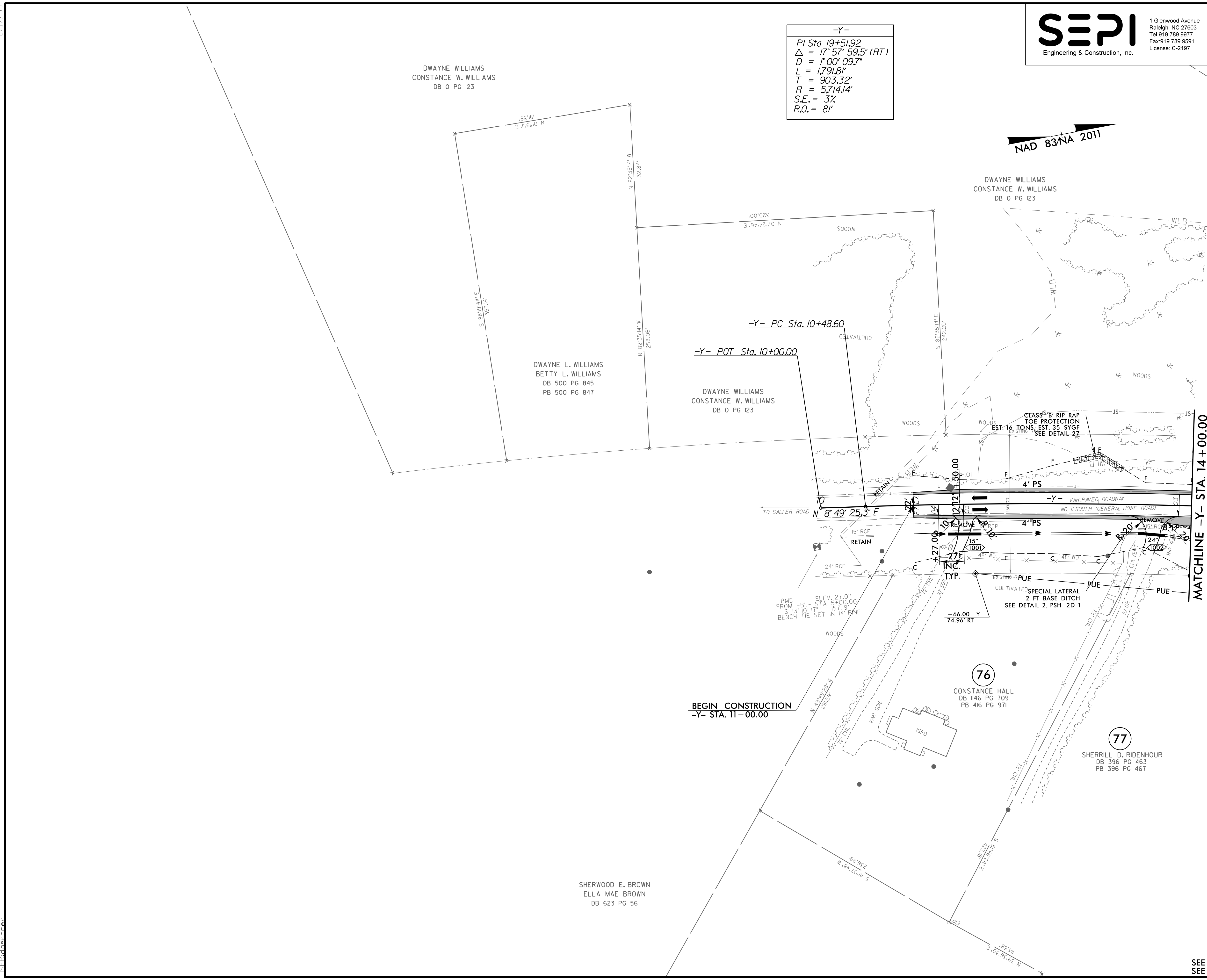
77
 SHERRILL D. RIDENHOUR
 DB 396 PG 463
 PB 396 PG 467

SHERWOOD E. BROWN
 ELLA MAE BROWN
 DB 623 PG 56

BEGIN CONSTRUCTION
 -Y- STA. 11+00.00

MATCHLINE -Y- STA. 14+00.00
SEE SHEET 11

SEE SHEET 24 FOR -Y- PROFILE
 SEE SHEET 2D-1 FOR DRAINAGE DITCH DETAILS



8/17/99
8/25/2014
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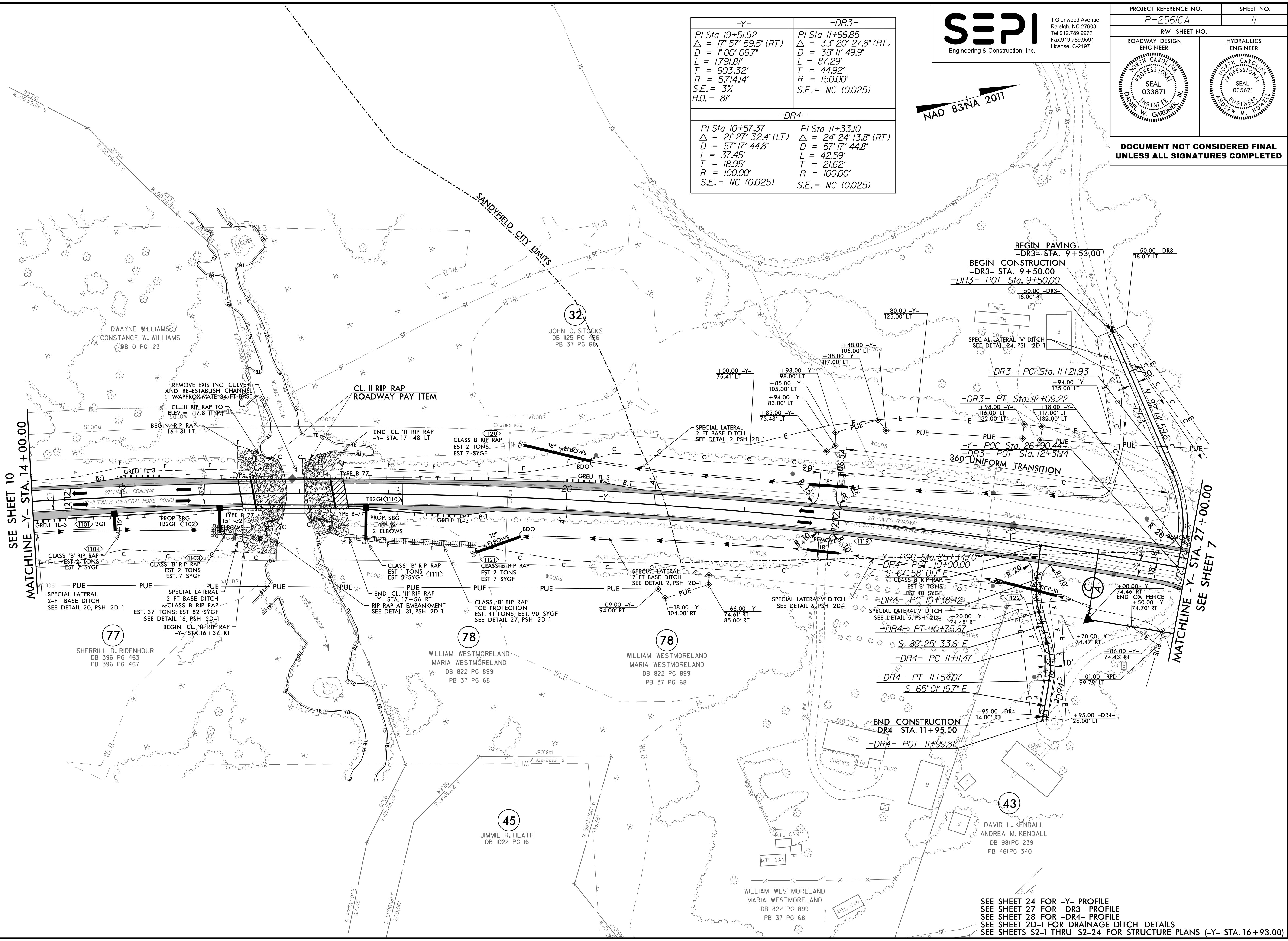


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PROJECT REFERENCE NO. R-2561CA	SHEET NO. 11
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	SEAL 033871 DANIEL W. GARDNER, JR.
	SEAL 035621 JAMES W. HOWELL

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-Y-	-DR3-
PI Sta 19+51.92 $\Delta = 17^{\circ} 57' 59.5''$ (RT) D = 1'00' 09.7" L = 1791.81' T = 903.32' R = 5714.14' S.E. = 3% R.O. = 81'	PI Sta 11+66.85 $\Delta = 33^{\circ} 20' 27.8''$ (RT) D = 38' 11' 49.9" L = 87.29' T = 44.92' R = 150.00' S.E. = NC (0.025)
-DR4-	
PI Sta 10+57.37 $\Delta = 21^{\circ} 27' 32.4''$ (LT) D = 57' 17' 44.8" L = 37.45' T = 18.95' R = 100.00' S.E. = NC (0.025)	PI Sta 11+33.10 $\Delta = 24^{\circ} 24' 13.8''$ (RT) D = 57' 17' 44.8" L = 42.59' T = 21.62' R = 100.00' S.E. = NC (0.025)



SEE SHEET 10
MATCHLINE -Y- STA. 14+00.00

MATCHLINE -Y- STA. 27+00.00
SEE SHEET 7

SEE SHEET 24 FOR -Y- PROFILE
SEE SHEET 27 FOR -DR3- PROFILE
SEE SHEET 28 FOR -DR4- PROFILE
SEE SHEET 2D-1 FOR DRAINAGE DITCH DETAILS
SEE SHEETS S2-1 THRU S2-24 FOR STRUCTURE PLANS (-Y- STA. 16+93.00)

8/17/99

8/25/2004 R-2561CA_Rdy_psh_12.dgn

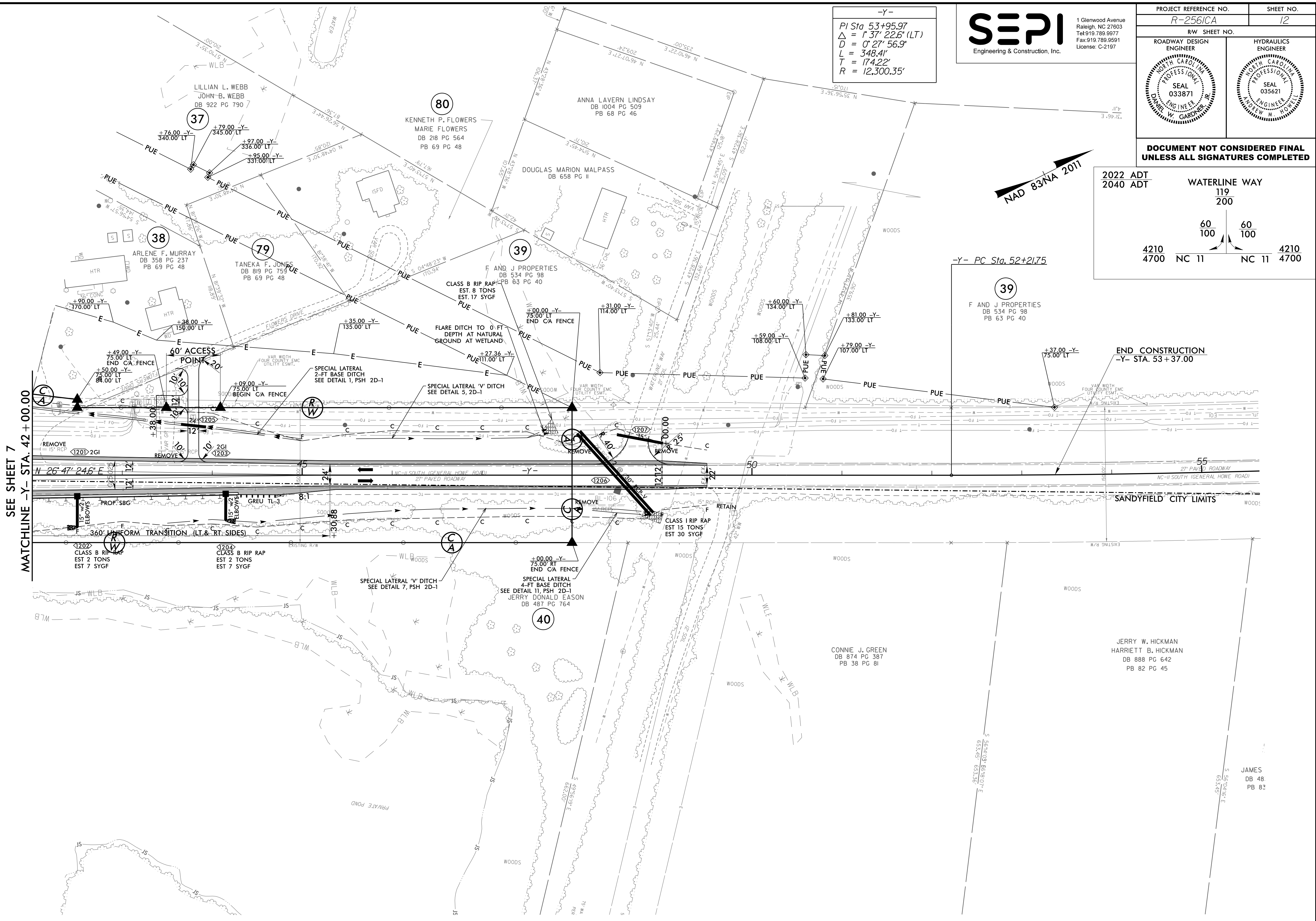
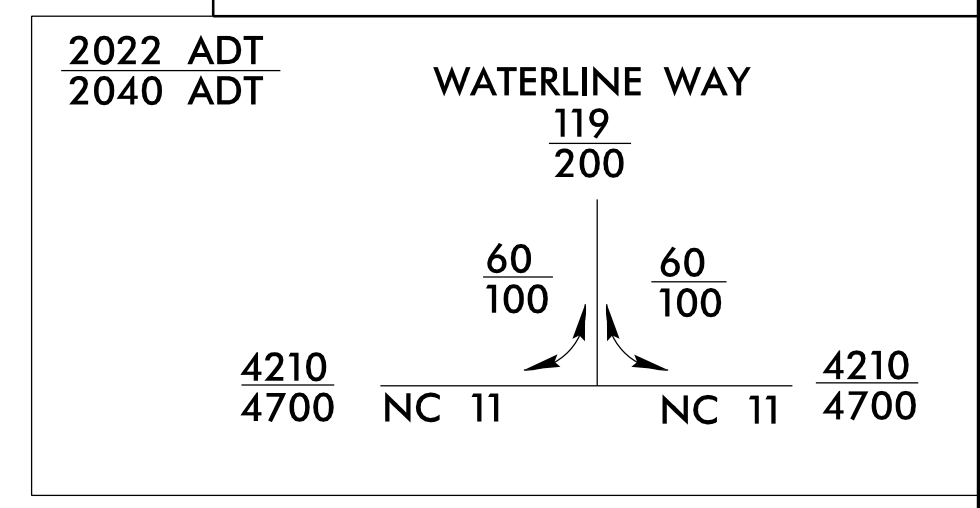
-Y-
 PI Sta 53+95.97
 $\Delta = 1' 37'' 22.6'' (LT)$
 $D = 0' 27'' 56.9''$
 $L = 348.41'$
 $T = 174.22'$
 $R = 12,300.35'$



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PROJECT REFERENCE NO. R-2561CA	SHEET NO. 12
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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SEE SHEET 7
 MATCHLINE -Y- STA. 42+00.00

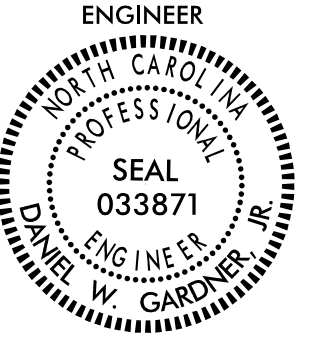
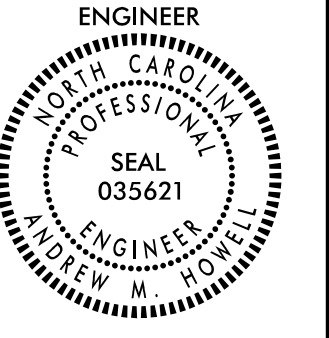
END CONSTRUCTION
 -Y- STA. 53+37.00

SEE SHEET 25 FOR -Y- PROFILE
 SEE SHEET 2D-1 FOR DRAINAGE DITCH DETAILS

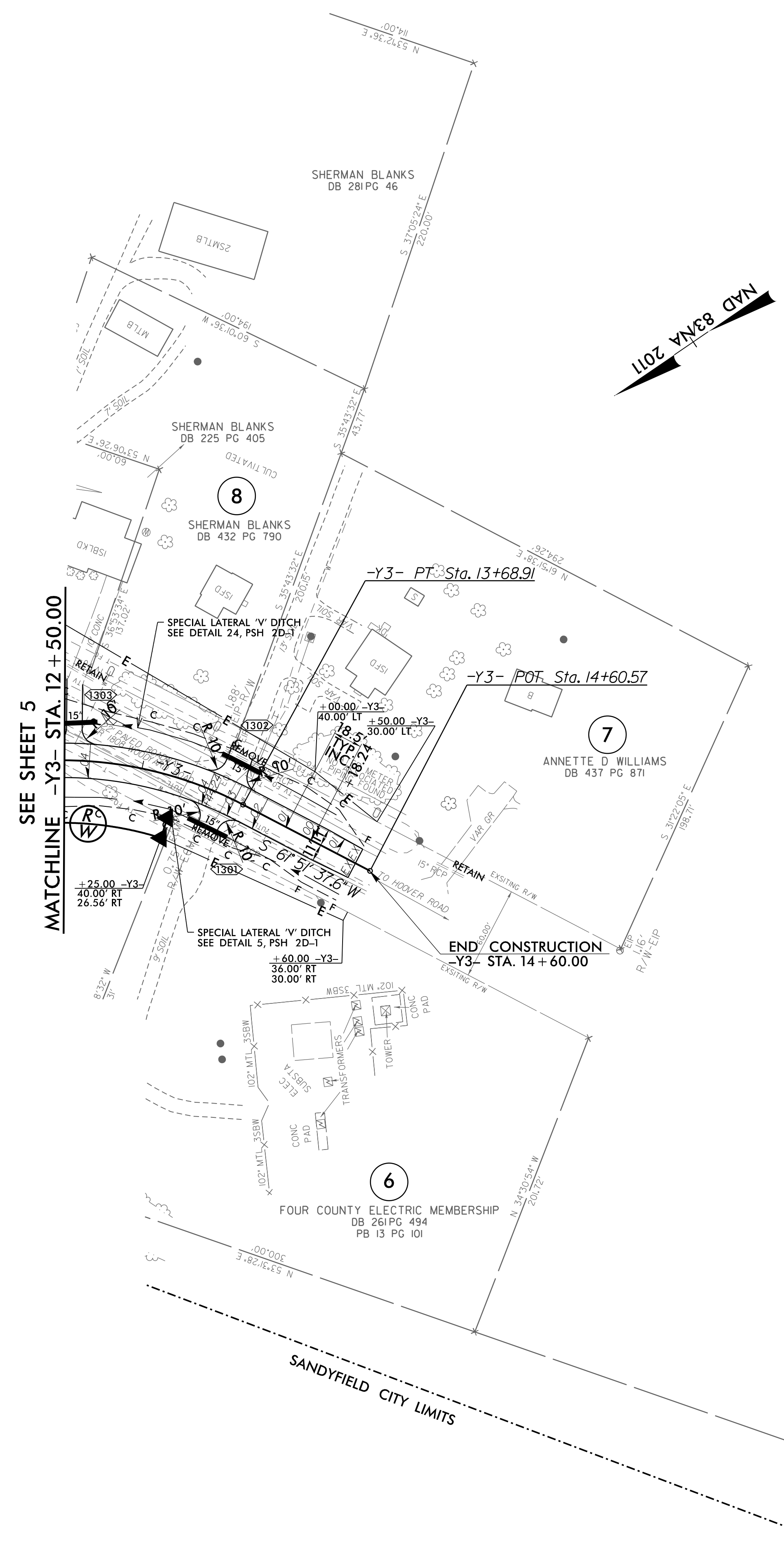
8/17/99

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PROJECT REFERENCE NO. <i>R-2561CA</i>	SHEET NO. <i>13</i>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
	
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-Y3-	
PI Sta 10+95.26 $\Delta = 2^\circ 01' 15.4''$ (LT) D = 22' 55' 05.9" L = 91.72' T = 46.38' R = 250.00' SE = SEE PLANS	PI Sta 12+70.29 $\Delta = 48^\circ 16' 27.3''$ (RT) D = 22' 55' 05.9" L = 210.64' T = 112.02' R = 250.00' SE = SEE PLANS



SEE SHEET 5
MATCHLINE -Y3- STA. 12+50.00

END CONSTRUCTION
-Y3- STA. 14+60.00

SANDYFIELD CITY LIMITS

8/26/2004
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11:55:40 AM

SEE SHEET 26 FOR -Y3- PROFILE
SEE SHEET 2D-1 FOR DRAINAGE DITCH DETAILS

5/28/99

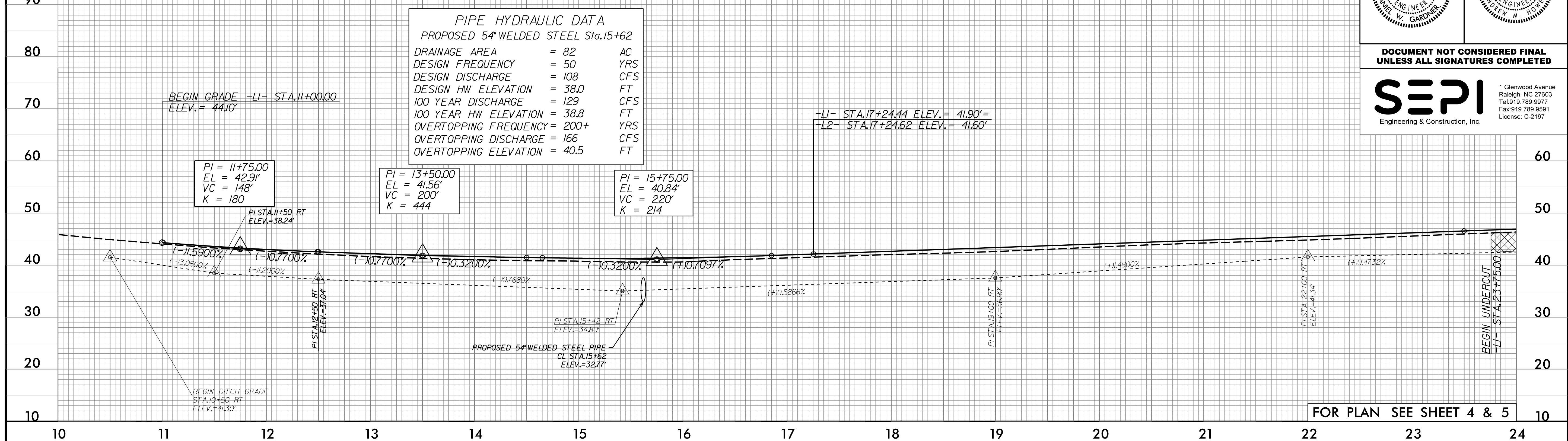
PROJECT REFERENCE NO. R-2561CA	SHEET NO. 14
ROADWAY DESIGN ENGINEER DANIEL W. GARDNER, JR. SEAL 033871 NORTH CAROLINA PROFESSIONAL ENGINEER	HYDRAULICS ENGINEER ANDREW M. HOWELL SEAL 035621 NORTH CAROLINA PROFESSIONAL ENGINEER

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-L1-

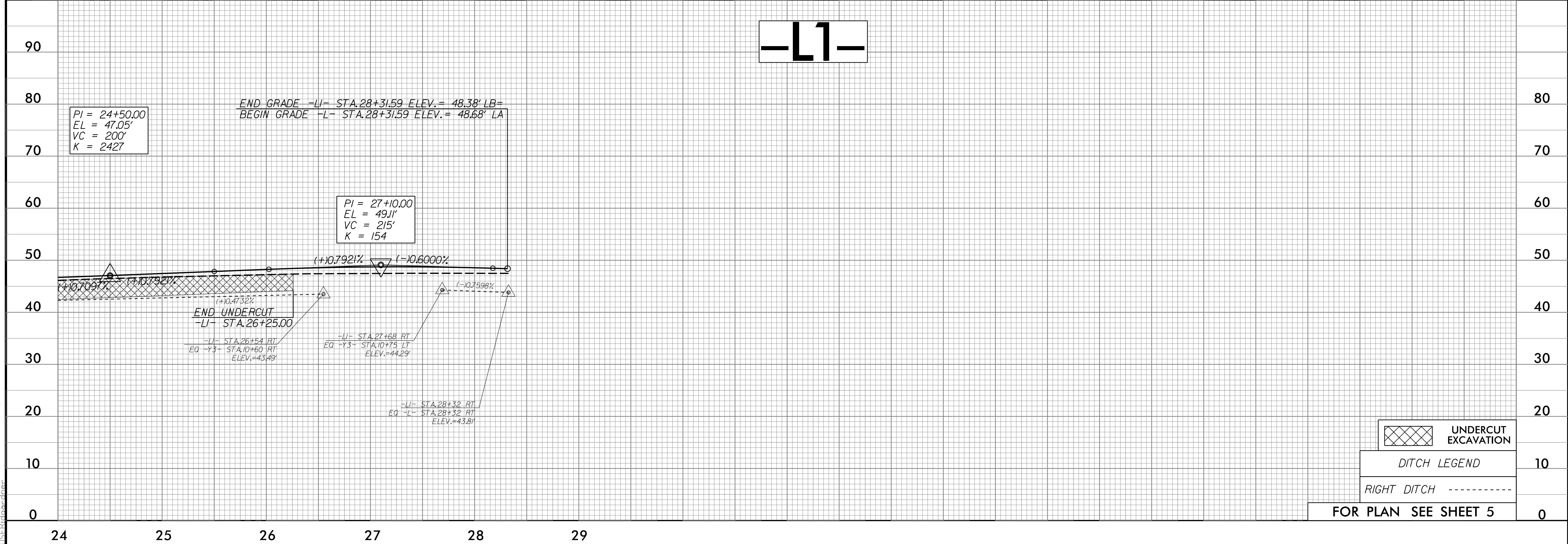


PIPE HYDRAULIC DATA
PROPOSED 54" WELDED STEEL STA. 15+62

DRAINAGE AREA	= 82	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 108	CFS
DESIGN HW ELEVATION	= 38.0	FT
100 YEAR DISCHARGE	= 129	CFS
100 YEAR HW ELEVATION	= 38.8	FT
OVERTOPPING FREQUENCY	= 200+	YRS
OVERTOPPING DISCHARGE	= 166	CFS
OVERTOPPING ELEVATION	= 40.5	FT

FOR PLAN SEE SHEET 4 & 5

-L1-



UNDERCUT EXCAVATION

DITCH LEGEND

RIGHT DITCH

FOR PLAN SEE SHEET 5

8/26/2002 R-2561CA-Rdy-p.f1.14.dgn
11:55:03 am

5/28/99

PROJECT REFERENCE NO. R-2561CA	SHEET NO. 15
ROADWAY DESIGN ENGINEER DAVID W. GARDNER, JR. SEAL 033871	HYDRAULICS ENGINEER ANDREW M. HOWELL SEAL 035621

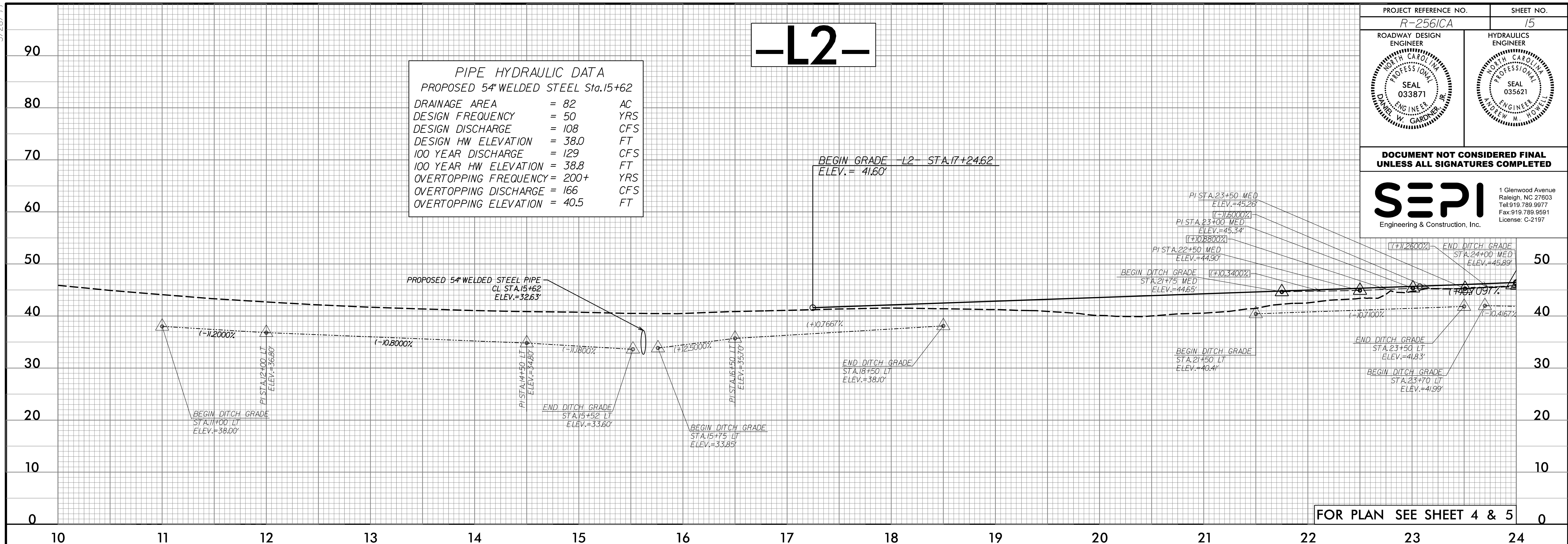
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-L2-

PIPE HYDRAULIC DATA		
PROPOSED 54" WELDED STEEL STA. 15+62		
DRAINAGE AREA	= 82	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 108	CFS
DESIGN HW ELEVATION	= 38.0	FT
100 YEAR DISCHARGE	= 129	CFS
100 YEAR HW ELEVATION	= 38.8	FT
OVERTOPPING FREQUENCY	= 200+	YRS
OVERTOPPING DISCHARGE	= 166	CFS
OVERTOPPING ELEVATION	= 40.5	FT



FOR PLAN SEE SHEET 4 & 5

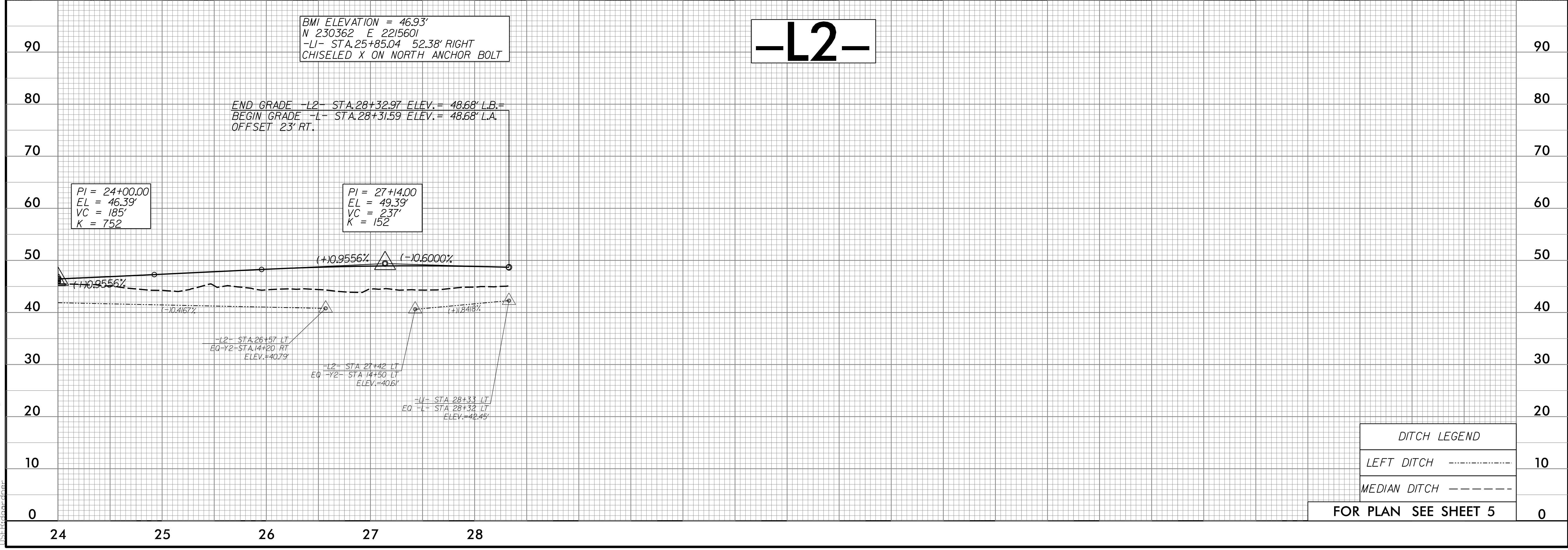
-L2-

BMI ELEVATION = 46.93'
 N 230362 E 2215601
 -L1- STA. 25+85.04 52.38' RIGHT
 CHISELED X ON NORTH ANCHOR BOLT

END GRADE -L2- STA. 28+32.97 ELEV. = 48.68' L.B. =
 BEGIN GRADE -L- STA. 28+31.59 ELEV. = 48.68' L.A.
 OFFSET 23' RT.

PI = 24+00.00
 EL = 46.39'
 VC = 185'
 K = 752

PI = 27+14.00
 EL = 49.39'
 VC = 237'
 K = 152

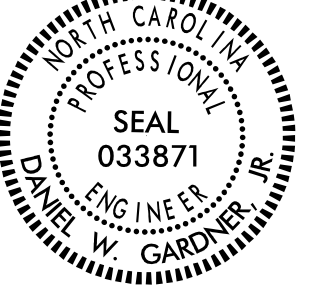
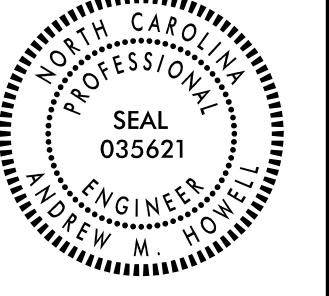


DITCH LEGEND	
LEFT DITCH	-----
MEDIAN DITCH	-----

FOR PLAN SEE SHEET 5

8/25/2002 R-2561CA_Rdy.pfl_15.dgn

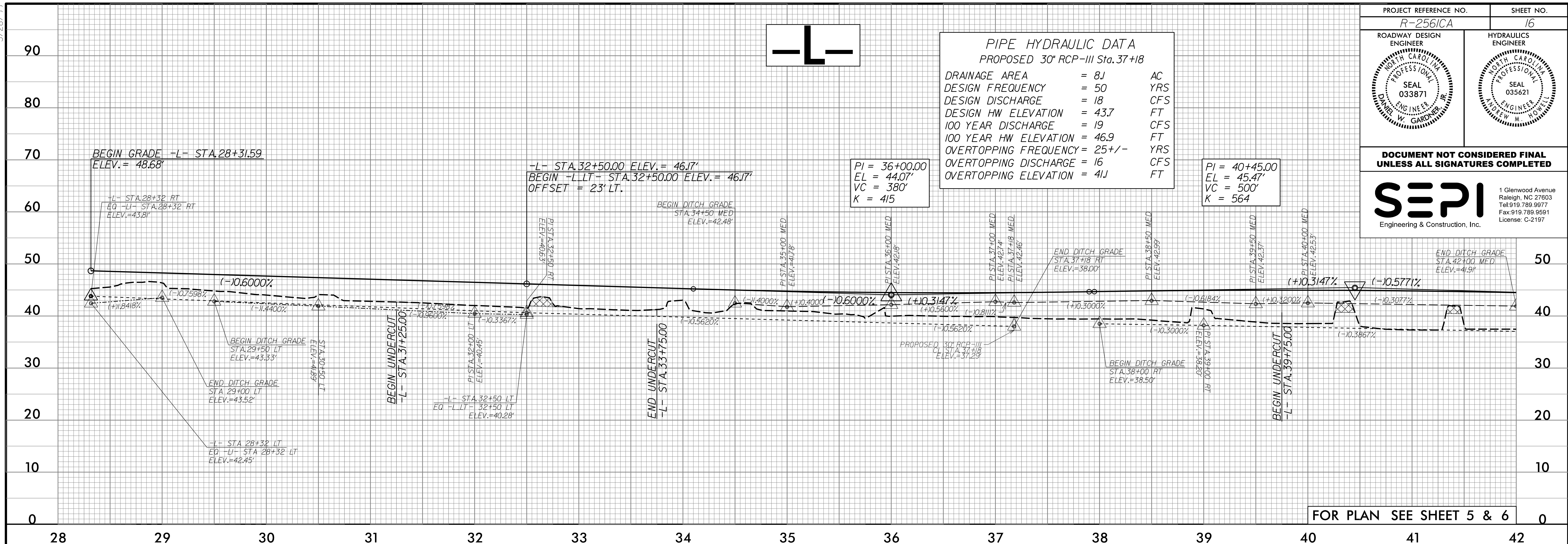
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PROJECT REFERENCE NO. R-2561CA	SHEET NO. 16
ROADWAY DESIGN ENGINEER 	HYDRAULICS ENGINEER 

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PIPE HYDRAULIC DATA
PROPOSED 30" RCP-III Sta. 37+18

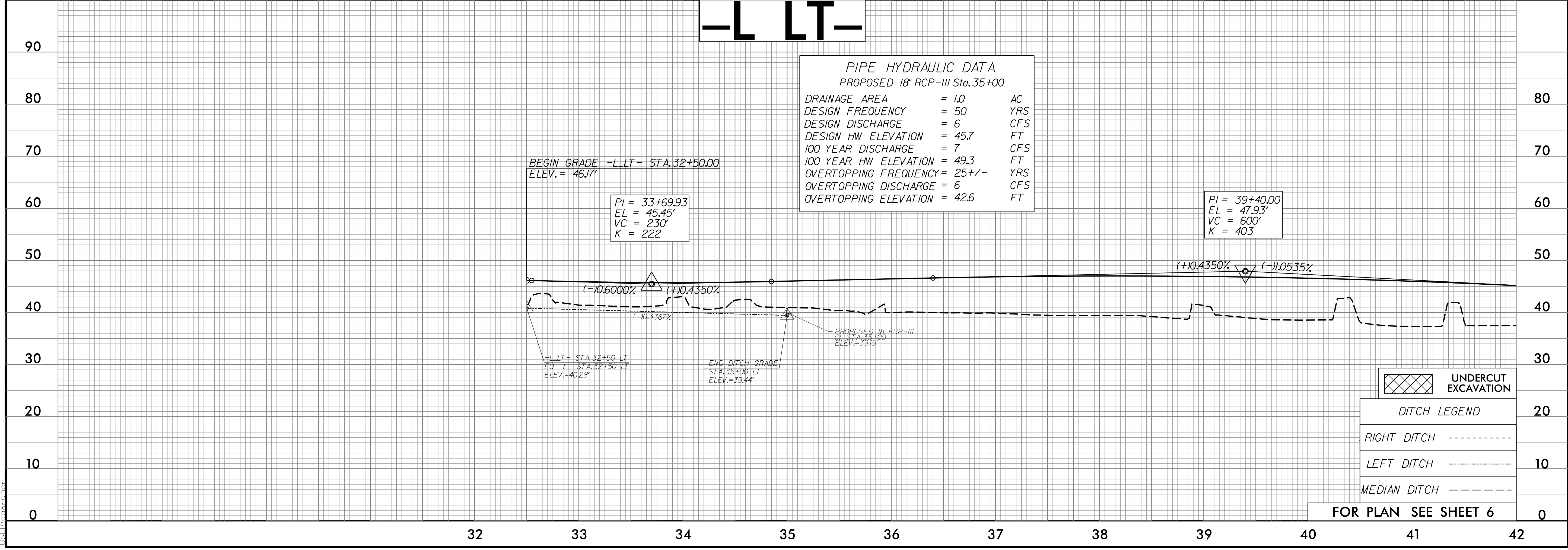
DRAINAGE AREA	= 8J	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 18	CFS
DESIGN HW ELEVATION	= 43.7	FT
100 YEAR DISCHARGE	= 19	CFS
100 YEAR HW ELEVATION	= 46.9	FT
OVERTOPPING FREQUENCY	= 25+/-	YRS
OVERTOPPING DISCHARGE	= 16	CFS
OVERTOPPING ELEVATION	= 41J	FT

PI = 36+00.00
EL = 44.07'
VC = 380'
K = 415

PI = 40+45.00
EL = 45.47'
VC = 500'
K = 564

FOR PLAN SEE SHEET 5 & 6

8/25/2002 R-2561CA_Rdy.pfl_16.dgn

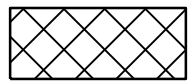


PIPE HYDRAULIC DATA
PROPOSED 18" RCP-III Sta. 35+00

DRAINAGE AREA	= 1.0	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 6	CFS
DESIGN HW ELEVATION	= 45.7	FT
100 YEAR DISCHARGE	= 7	CFS
100 YEAR HW ELEVATION	= 49.3	FT
OVERTOPPING FREQUENCY	= 25+/-	YRS
OVERTOPPING DISCHARGE	= 6	CFS
OVERTOPPING ELEVATION	= 42.6	FT

PI = 33+69.93
EL = 45.45'
VC = 230'
K = 222

PI = 39+40.00
EL = 47.93'
VC = 600'
K = 403

 UNDERCUT EXCAVATION

DITCH LEGEND

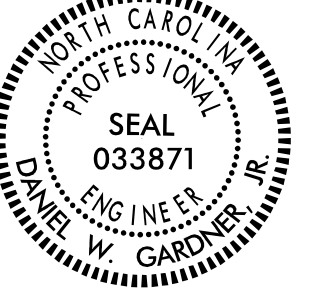
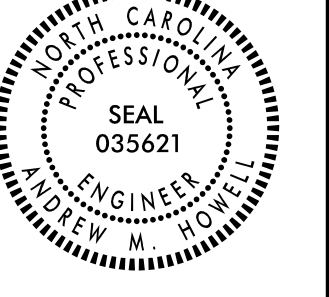

RIGHT DITCH - - - - -

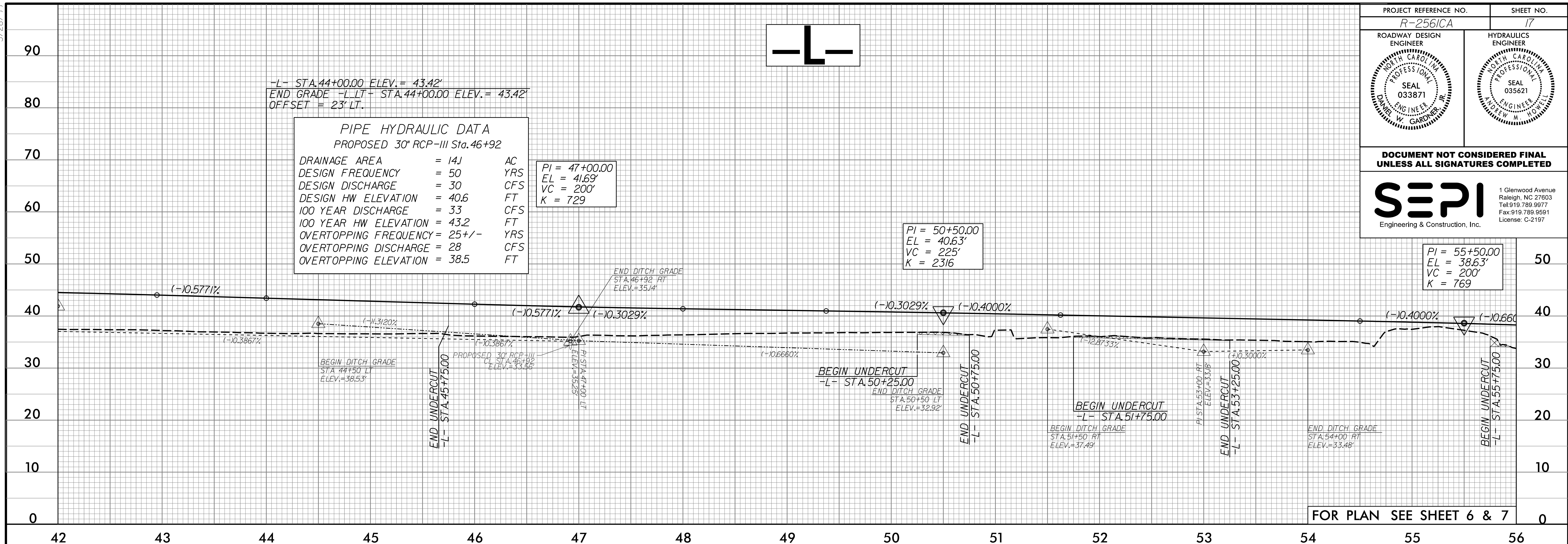
LEFT DITCH - - - - -

MEDIAN DITCH - - - - -

FOR PLAN SEE SHEET 6

5/28/99

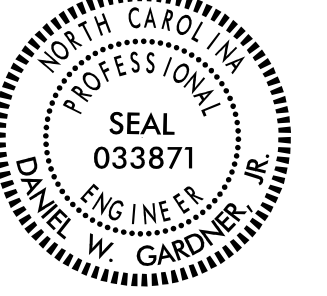
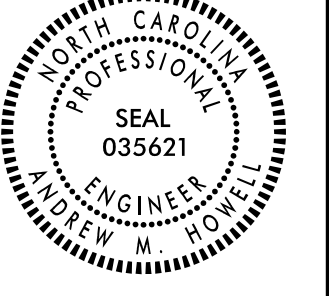
PROJECT REFERENCE NO. R-2561CA	SHEET NO. 17
ROADWAY DESIGN ENGINEER 	HYDRAULICS ENGINEER 
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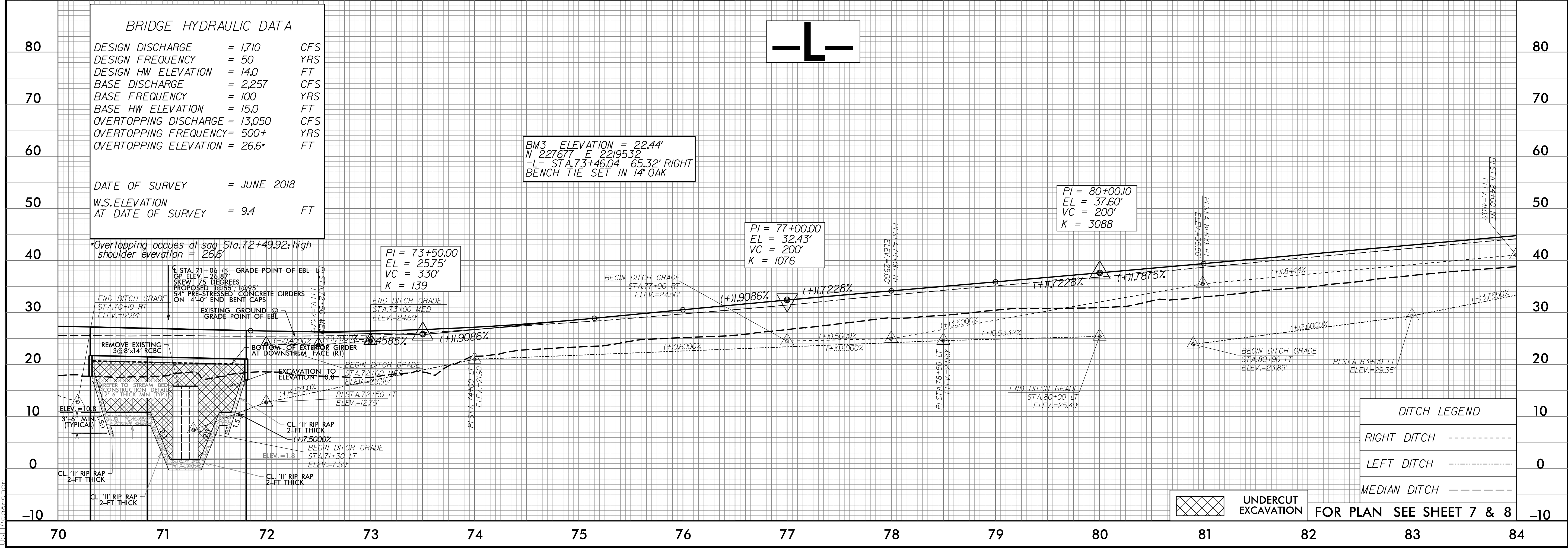
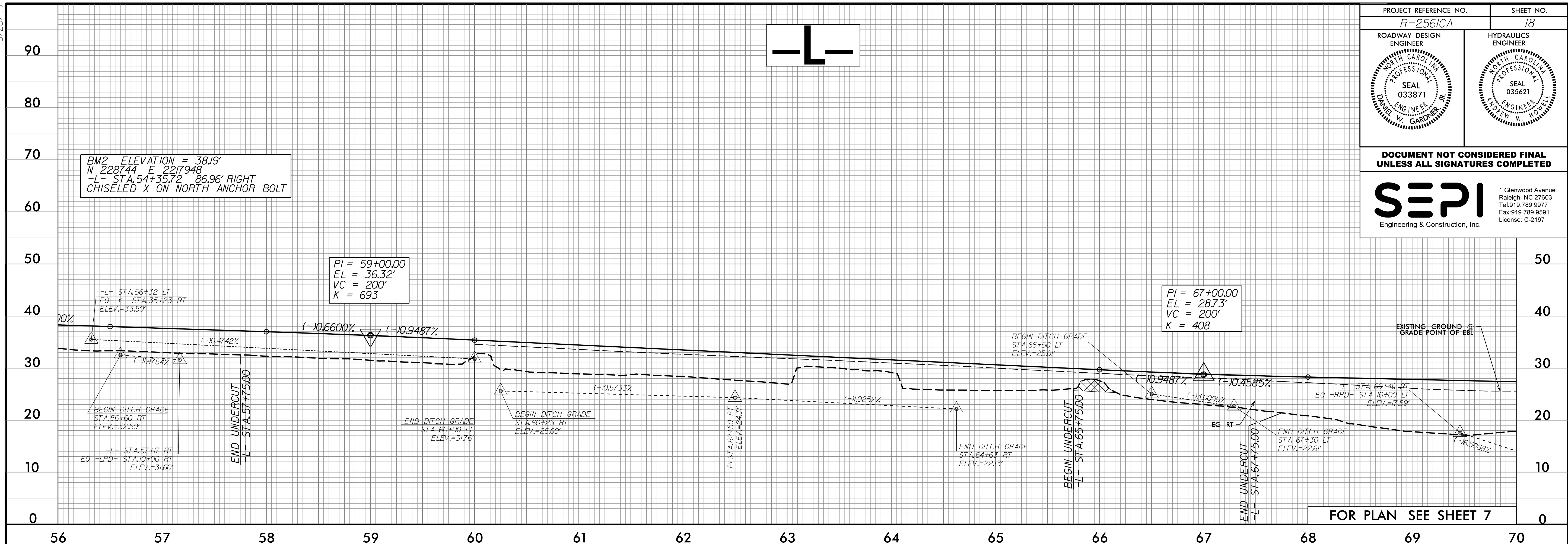
5/28/99

PROJECT REFERENCE NO. R-256/CA	SHEET NO. 18
ROADWAY DESIGN ENGINEER 	HYDRAULICS ENGINEER 

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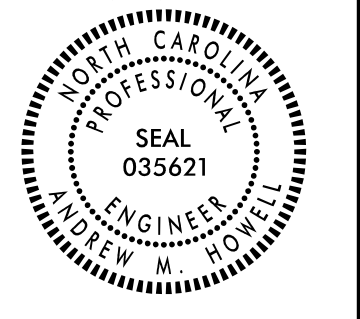
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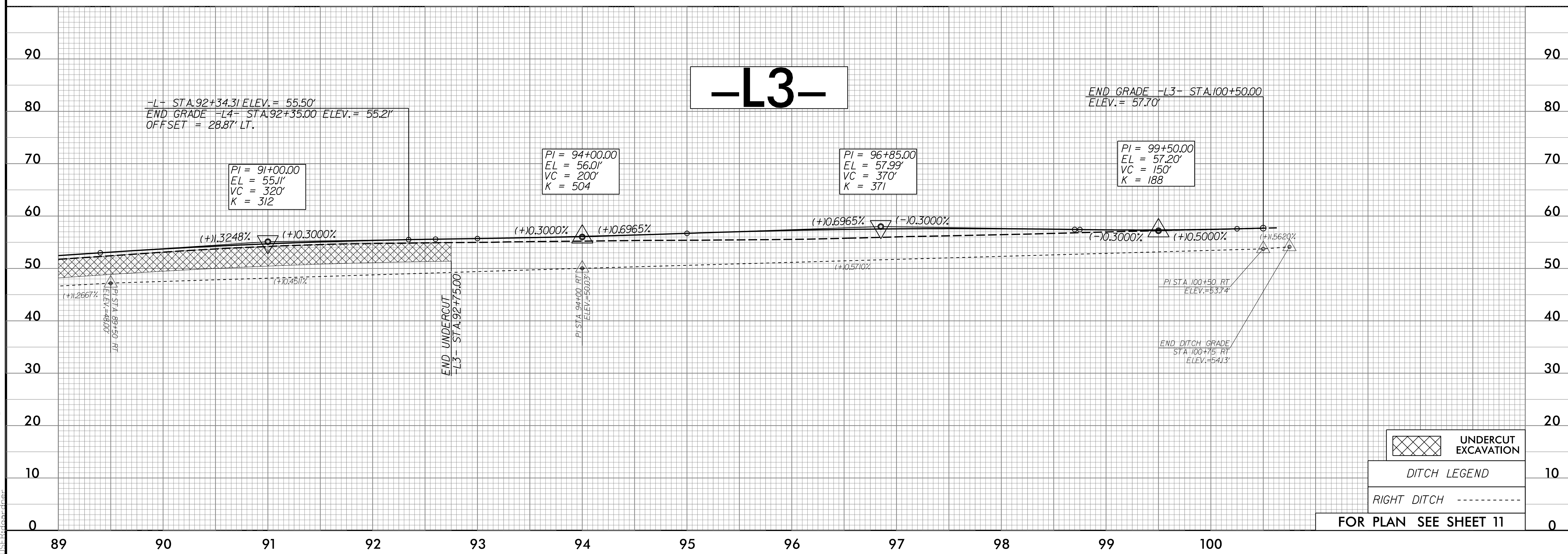
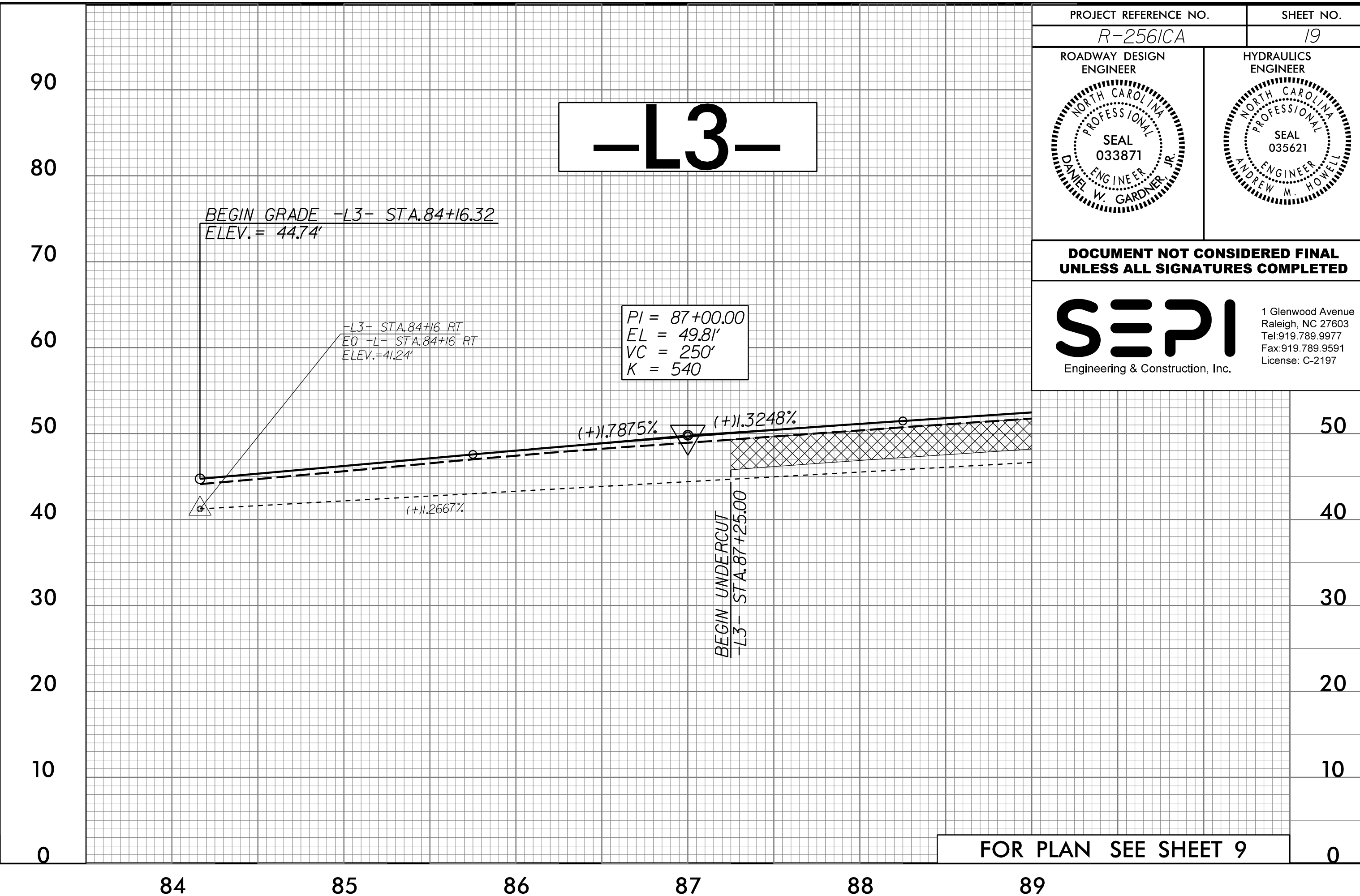
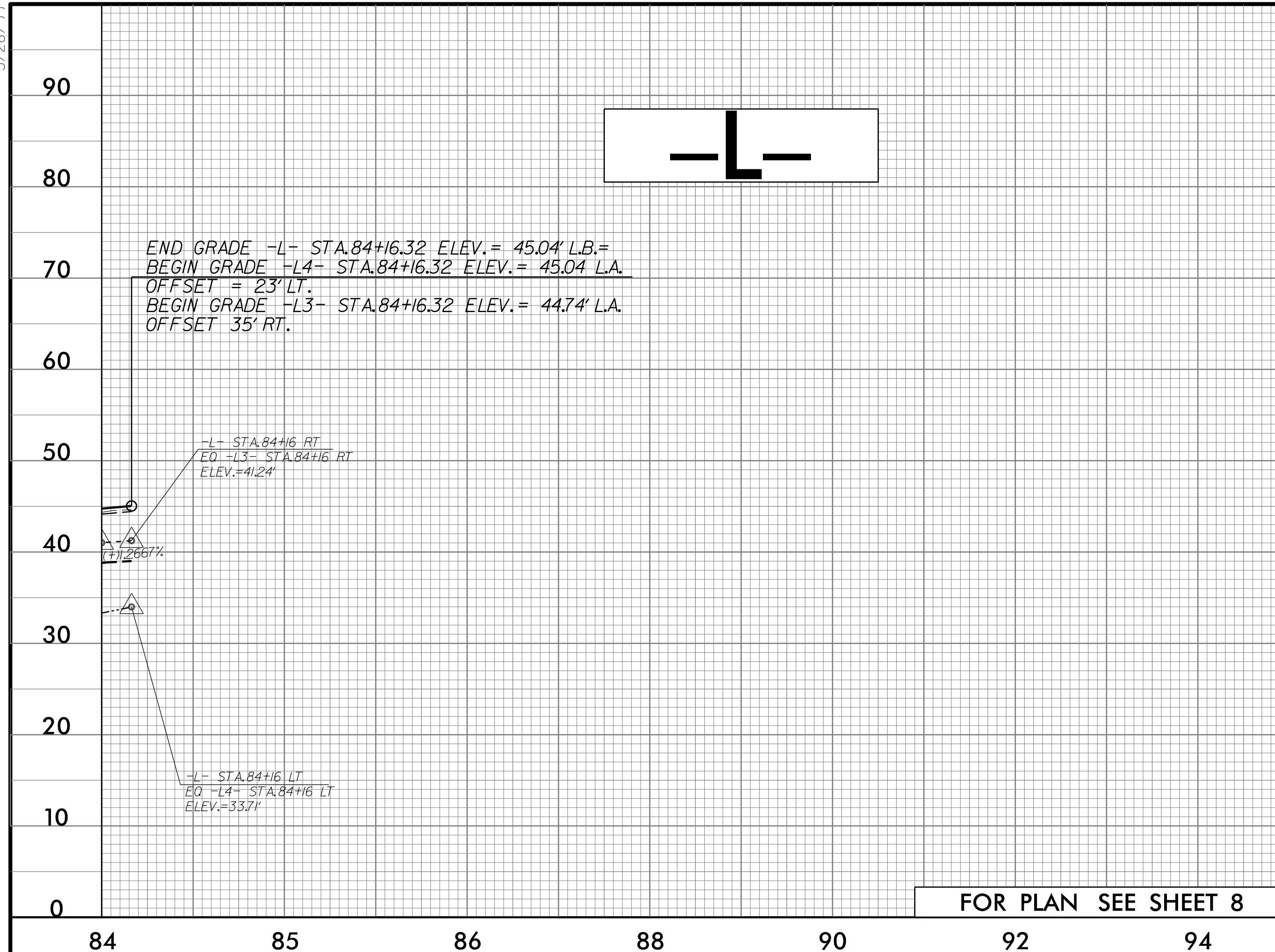
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11:55:43 AM


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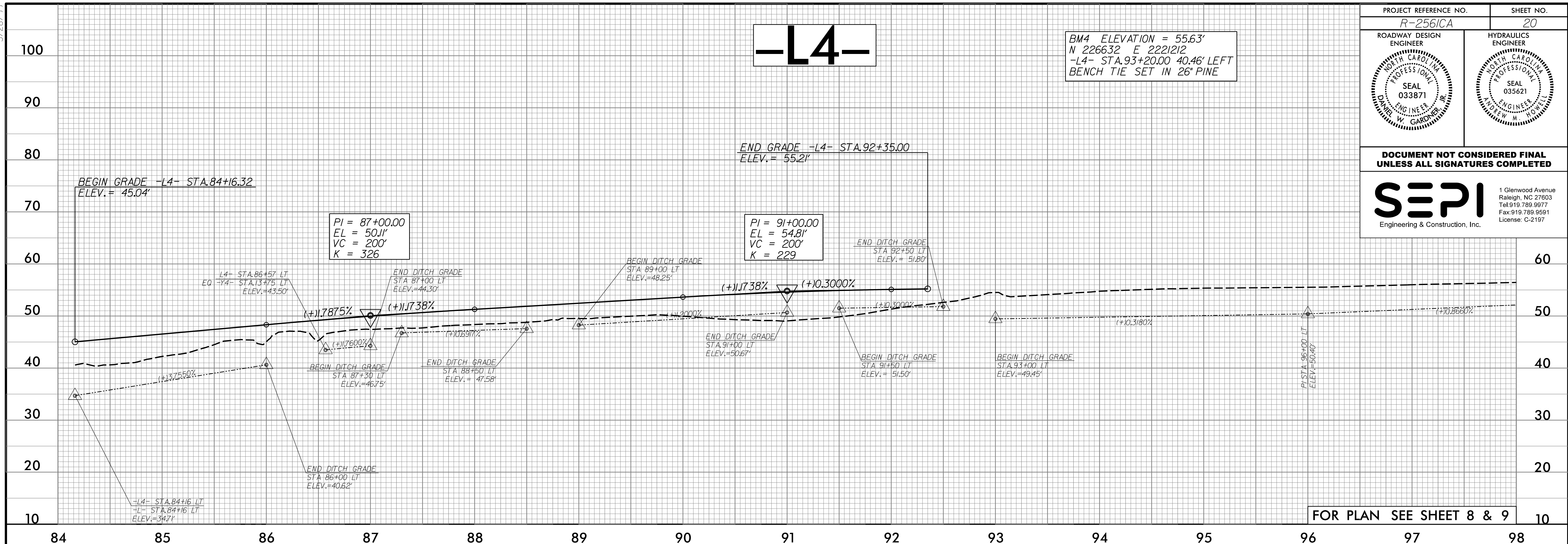
PROJECT REFERENCE NO. R-256/CA	SHEET NO. 19
ROADWAY DESIGN ENGINEER 	HYDRAULICS ENGINEER 
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
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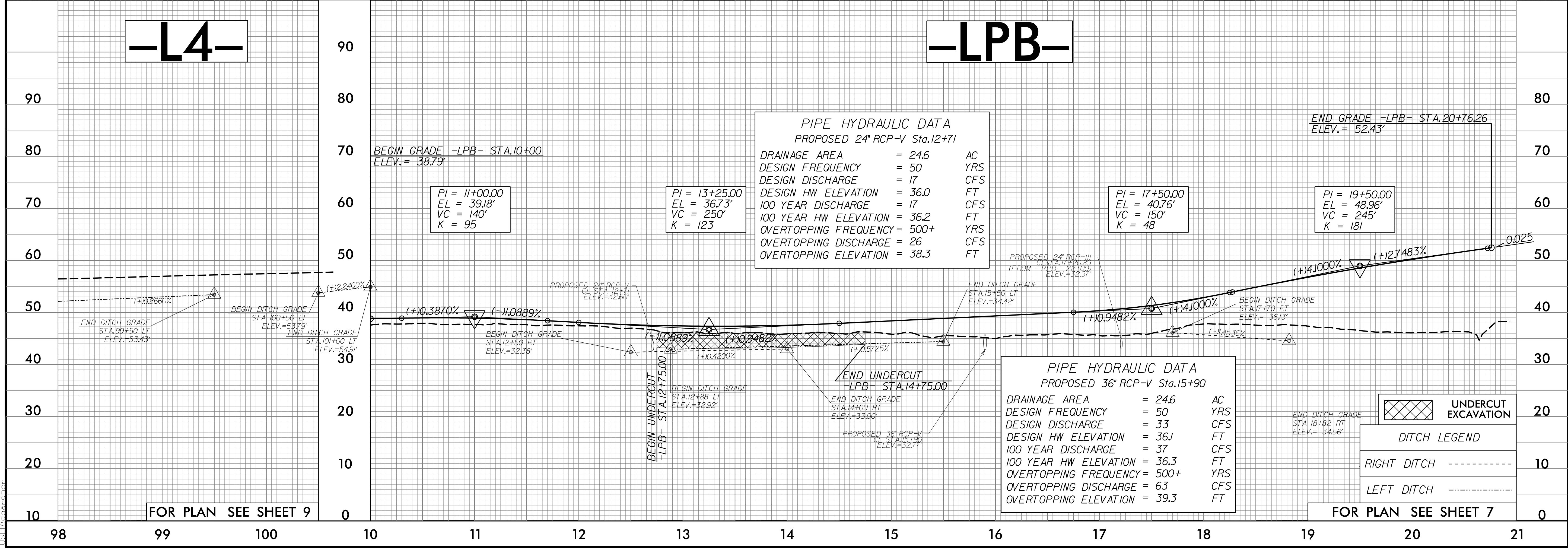
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5/28/99

PROJECT REFERENCE NO. R-2561CA	SHEET NO. 20
ROADWAY DESIGN ENGINEER DAVID W. GARDNER, JR. SEAL 033871 ENGINEER	HYDRAULICS ENGINEER ANDREW W. HOWELL SEAL 035621 ENGINEER
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 SEPI Engineering & Construction, Inc.	
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FOR PLAN SEE SHEET 8 & 9



PIPE HYDRAULIC DATA
PROPOSED 24" RCP-V Sta.12+71

DRAINAGE AREA	= 24.6	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 17	CFS
DESIGN HW ELEVATION	= 36.0	FT
100 YEAR DISCHARGE	= 17	CFS
100 YEAR HW ELEVATION	= 36.2	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 26	CFS
OVERTOPPING ELEVATION	= 38.3	FT

PIPE HYDRAULIC DATA
PROPOSED 36" RCP-V Sta.15+90

DRAINAGE AREA	= 24.6	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 33	CFS
DESIGN HW ELEVATION	= 36.1	FT
100 YEAR DISCHARGE	= 37	CFS
100 YEAR HW ELEVATION	= 36.3	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 63	CFS
OVERTOPPING ELEVATION	= 39.3	FT

UNDERCUT EXCAVATION

DITCH LEGEND

RIGHT DITCH -----

LEFT DITCH - . - . - .

-L4-

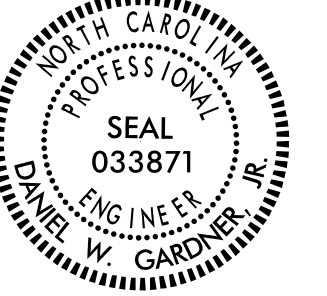
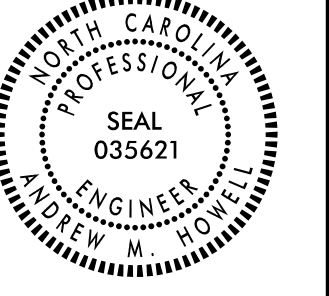
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FOR PLAN SEE SHEET 9

FOR PLAN SEE SHEET 7

8/25/2002 R-2561CA_Rdy.pfl_20.dgn

5/28/99

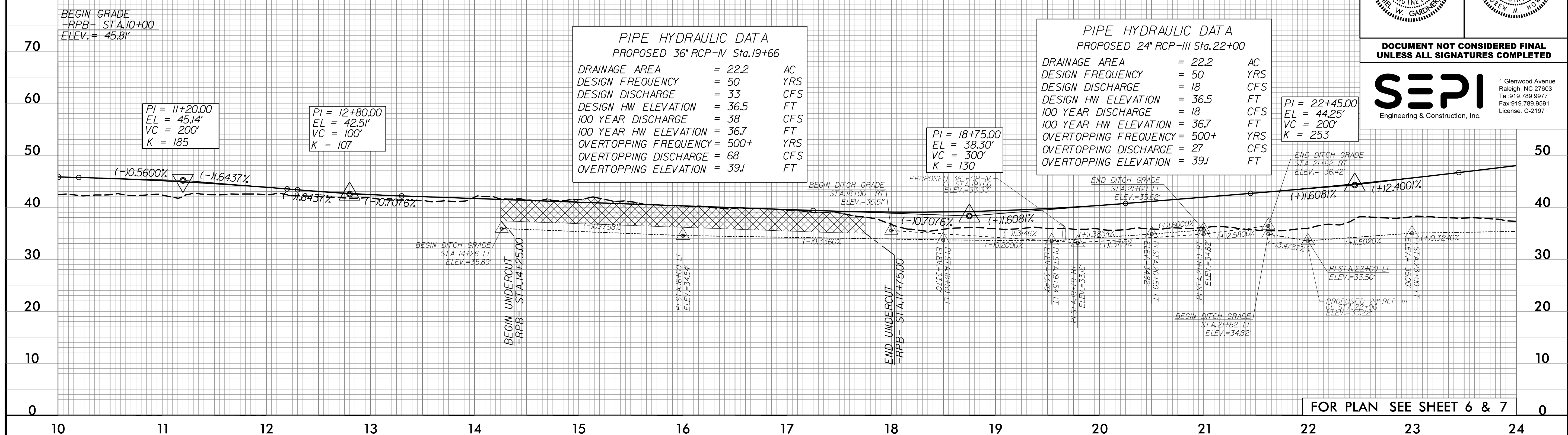
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ROADWAY DESIGN ENGINEER 	HYDRAULICS ENGINEER 

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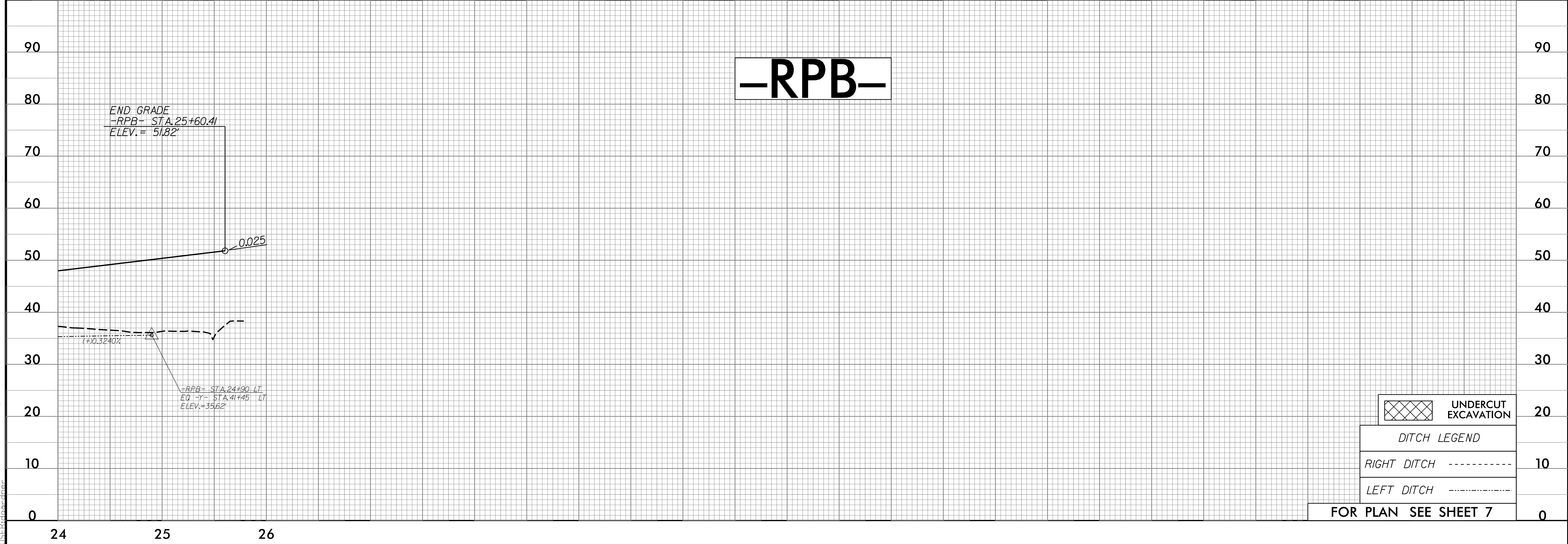
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-RPB-

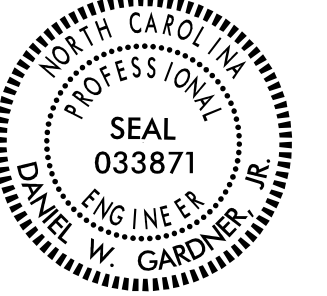
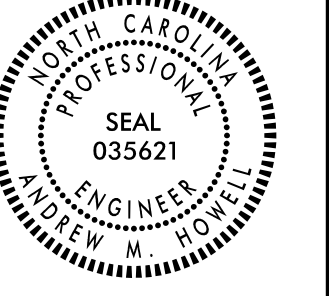


-RPB-



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PROJECT REFERENCE NO. R-256/CA	SHEET NO. 22
ROADWAY DESIGN ENGINEER 	HYDRAULICS ENGINEER 

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-RPD-

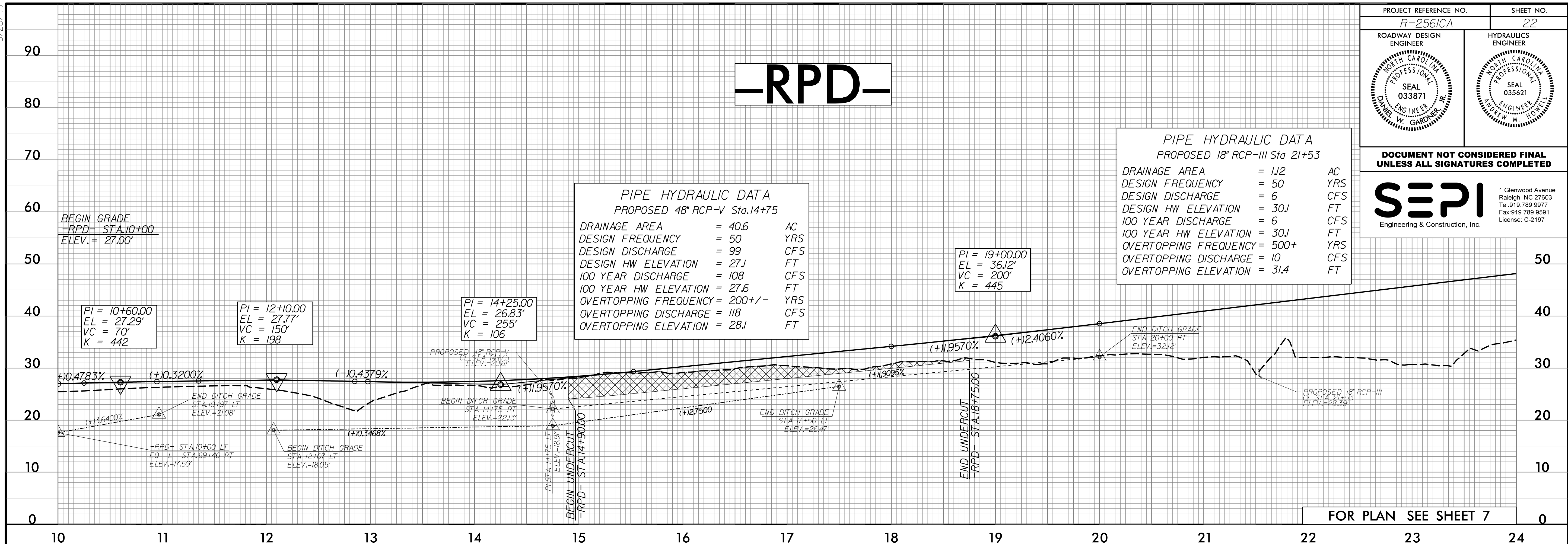
PIPE HYDRAULIC DATA
PROPOSED 18" RCP-III Sta 21+53

DRAINAGE AREA	= 112	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 6	CFS
DESIGN HW ELEVATION	= 30J	FT
100 YEAR DISCHARGE	= 6	CFS
100 YEAR HW ELEVATION	= 30J	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 10	CFS
OVERTOPPING ELEVATION	= 31.4	FT

PIPE HYDRAULIC DATA
PROPOSED 48" RCP-V Sta.14+75

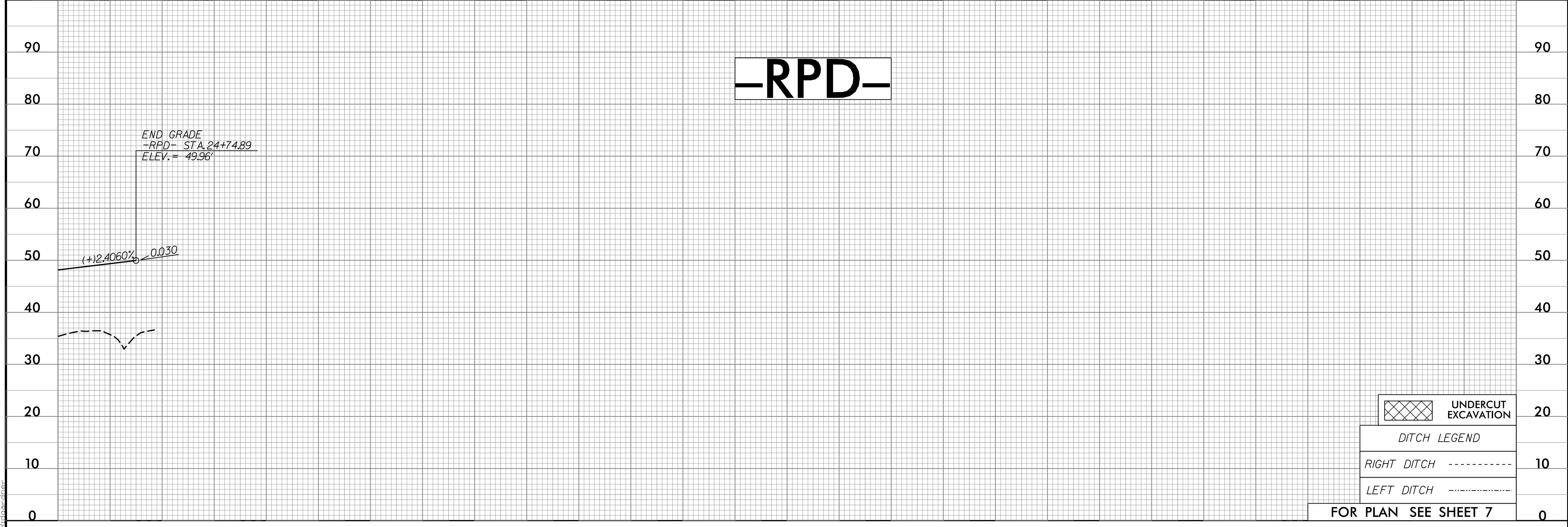
DRAINAGE AREA	= 40.6	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 99	CFS
DESIGN HW ELEVATION	= 27.1	FT
100 YEAR DISCHARGE	= 108	CFS
100 YEAR HW ELEVATION	= 27.6	FT
OVERTOPPING FREQUENCY	= 200+/-	YRS
OVERTOPPING DISCHARGE	= 118	CFS
OVERTOPPING ELEVATION	= 28.1	FT


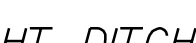

PI = 19+00.00
EL = 36.12'
VC = 200'
K = 445



FOR PLAN SEE SHEET 7

-RPD-



	UNDERCUT EXCAVATION	20
DITCH LEGEND		
	RIGHT DITCH	10
	LEFT DITCH	10

FOR PLAN SEE SHEET 7

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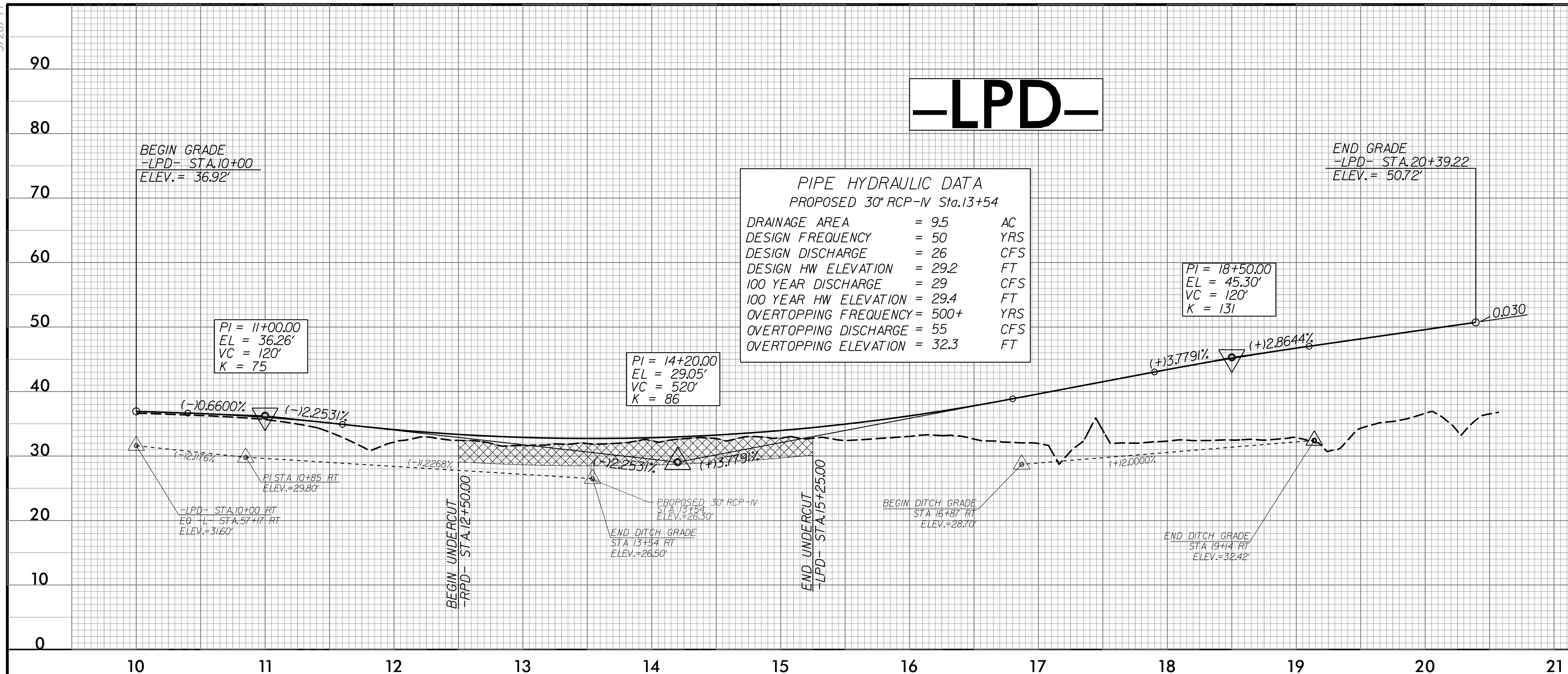
PROJECT REFERENCE NO. <i>R-256/CA</i>	SHEET NO. <i>23</i>
ROADWAY DESIGN ENGINEER DANIEL W. GARDNER, JR. PROFESSIONAL SEAL 033871	HYDRAULICS ENGINEER ANDREW M. HOWELL PROFESSIONAL SEAL 035621

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-LPD-



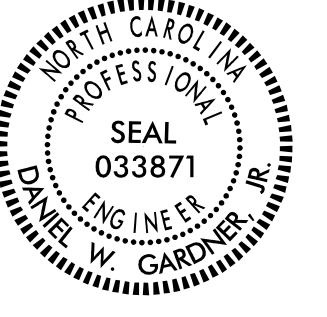
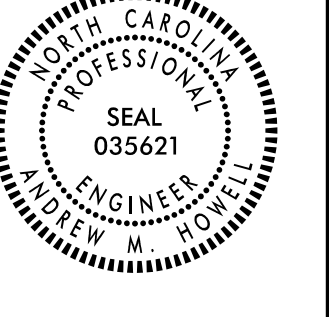

UNDERCUT EXCAVATION

DITCH LEGEND

RIGHT DITCH

8/25/2002 R-256/CA_Rdy.pfl_23.dgn
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5/28/99

PROJECT REFERENCE NO. R-256/CA	SHEET NO. 24
ROADWAY DESIGN ENGINEER 	HYDRAULICS ENGINEER 
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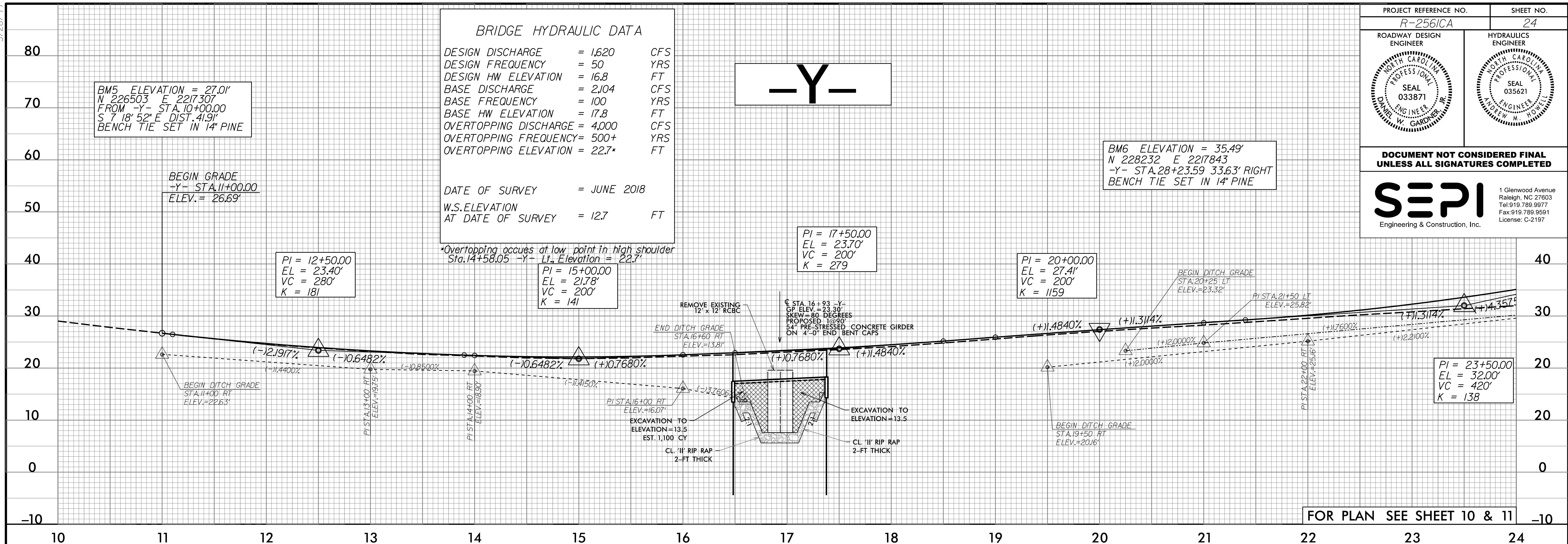
BRIDGE HYDRAULIC DATA

DESIGN DISCHARGE = 1,620 CFS
 DESIGN FREQUENCY = 50 YRS
 DESIGN HW ELEVATION = 16.8 FT
 BASE DISCHARGE = 2,104 CFS
 BASE FREQUENCY = 100 YRS
 BASE HW ELEVATION = 17.8 FT
 OVERTOPPING DISCHARGE = 4,000 CFS
 OVERTOPPING FREQUENCY = 500+ YRS
 OVERTOPPING ELEVATION = 22.7 FT

DATE OF SURVEY = JUNE 2018
 W.S. ELEVATION AT DATE OF SURVEY = 12.7 FT

**Overtopping occurs at low point in high shoulder Sta. 14+58.05 -Y- Lt. Elevation = 22.7'*

-Y-



BM5 ELEVATION = 27.01'
 N 226503 E 2217307
 FROM -Y- STA. 10+00.00
 S 7 18' 52" E DIST. 41.91'
 BENCH TIE SET IN 14" PINE

BM6 ELEVATION = 35.49'
 N 228232 E 2217843
 -Y- STA. 28+23.59 33.63' RIGHT
 BENCH TIE SET IN 14" PINE

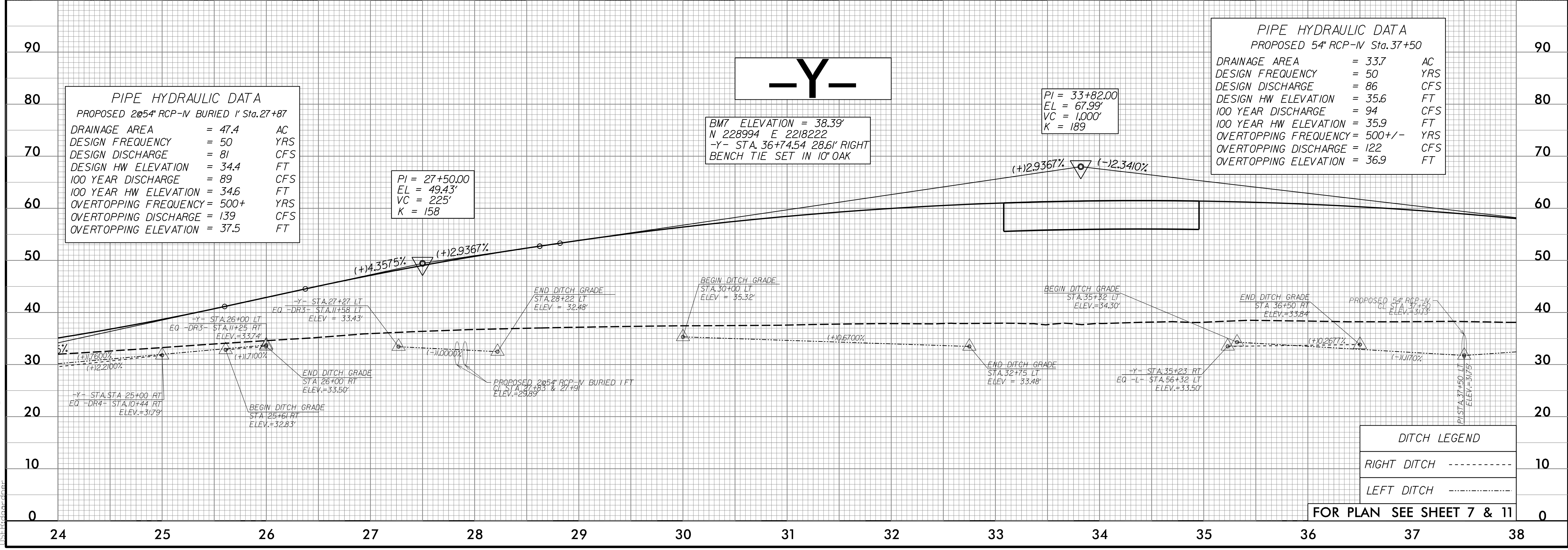
FOR PLAN SEE SHEET 10 & 11

8/26/2002 R-256/CA_Rdy.pfl_24.dgn

PIPE HYDRAULIC DATA
 PROPOSED 54" RCP-N Sta. 37+50

DRAINAGE AREA = 33.7 AC
 DESIGN FREQUENCY = 50 YRS
 DESIGN DISCHARGE = 86 CFS
 DESIGN HW ELEVATION = 35.6 FT
 100 YEAR DISCHARGE = 94 CFS
 100 YEAR HW ELEVATION = 35.9 FT
 OVERTOPPING FREQUENCY = 500+/- YRS
 OVERTOPPING DISCHARGE = 122 CFS
 OVERTOPPING ELEVATION = 36.9 FT

-Y-



PIPE HYDRAULIC DATA
 PROPOSED 2054" RCP-N BURIED I Sta. 27+87

DRAINAGE AREA = 47.4 AC
 DESIGN FREQUENCY = 50 YRS
 DESIGN DISCHARGE = 81 CFS
 DESIGN HW ELEVATION = 34.4 FT
 100 YEAR DISCHARGE = 89 CFS
 100 YEAR HW ELEVATION = 34.6 FT
 OVERTOPPING FREQUENCY = 500+ YRS
 OVERTOPPING DISCHARGE = 139 CFS
 OVERTOPPING ELEVATION = 37.5 FT

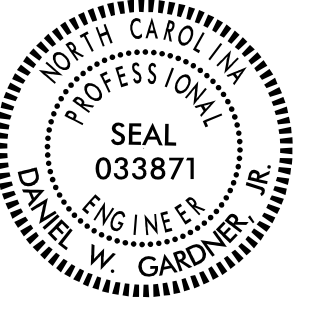
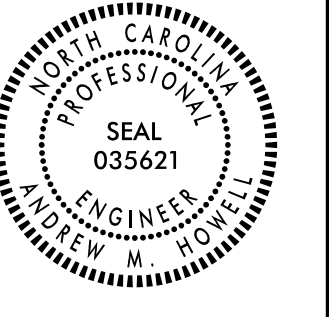
BM7 ELEVATION = 38.39'
 N 228994 E 2218222
 -Y- STA. 36+74.54 28.61' RIGHT
 BENCH TIE SET IN 10" OAK

DITCH LEGEND

RIGHT DITCH	-----
LEFT DITCH	-----

FOR PLAN SEE SHEET 7 & 11

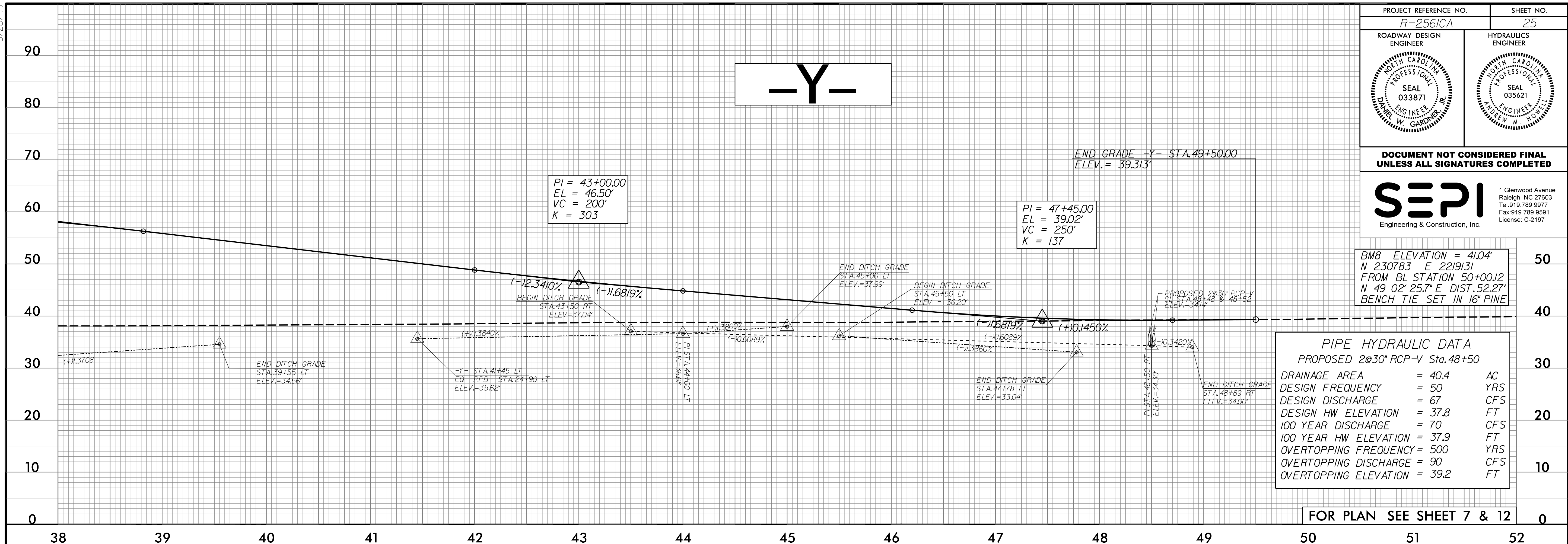
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PROJECT REFERENCE NO. R-256/CA	SHEET NO. 25
ROADWAY DESIGN ENGINEER 	HYDRAULICS ENGINEER 

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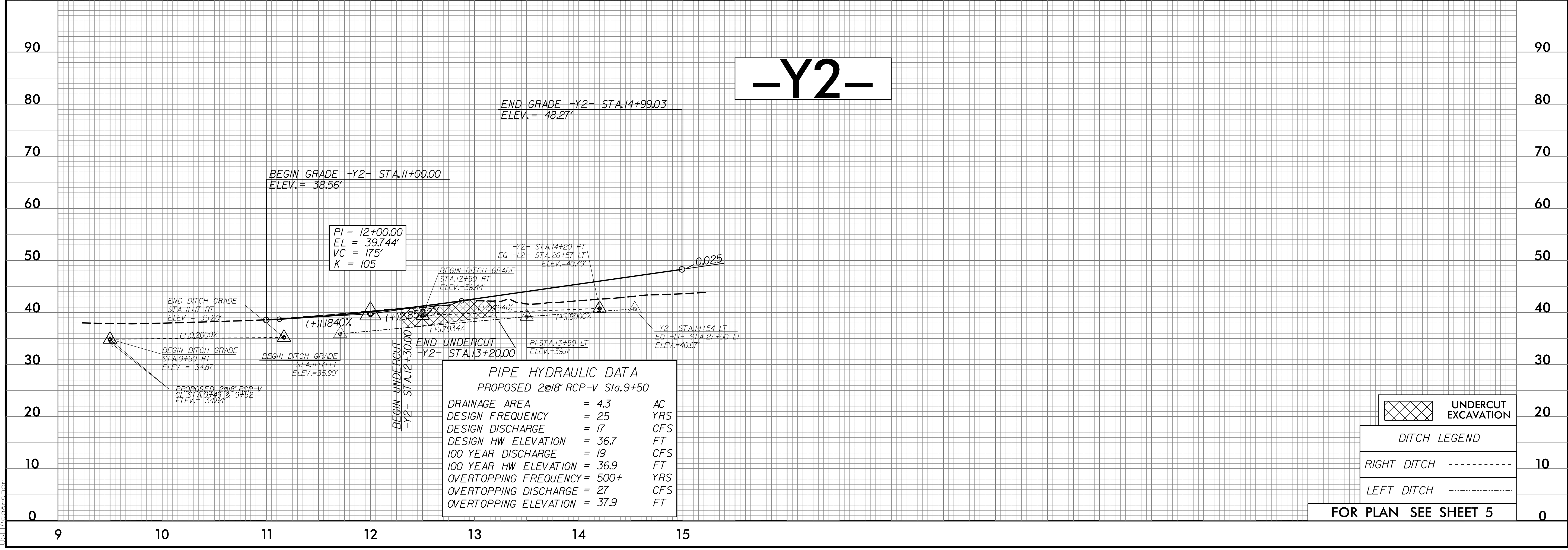
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BM8 ELEVATION = 41.04'
N 230783 E 2219131
FROM BL STATION 50+00.12
N 49 02' 25.7" E DIST. 52.27'
BENCH TIE SET IN 16" PINE



FOR PLAN SEE SHEET 7 & 12

8/26/2002 R-256/CA_Rdy.pfl_25.dgn



UNDERCUT EXCAVATION (hatched box symbol)

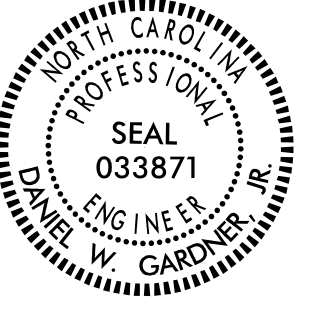
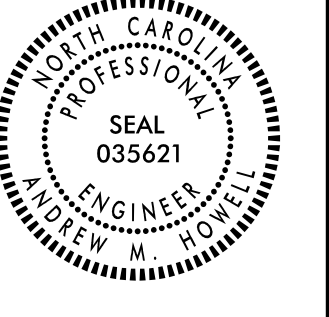

DITCH LEGEND

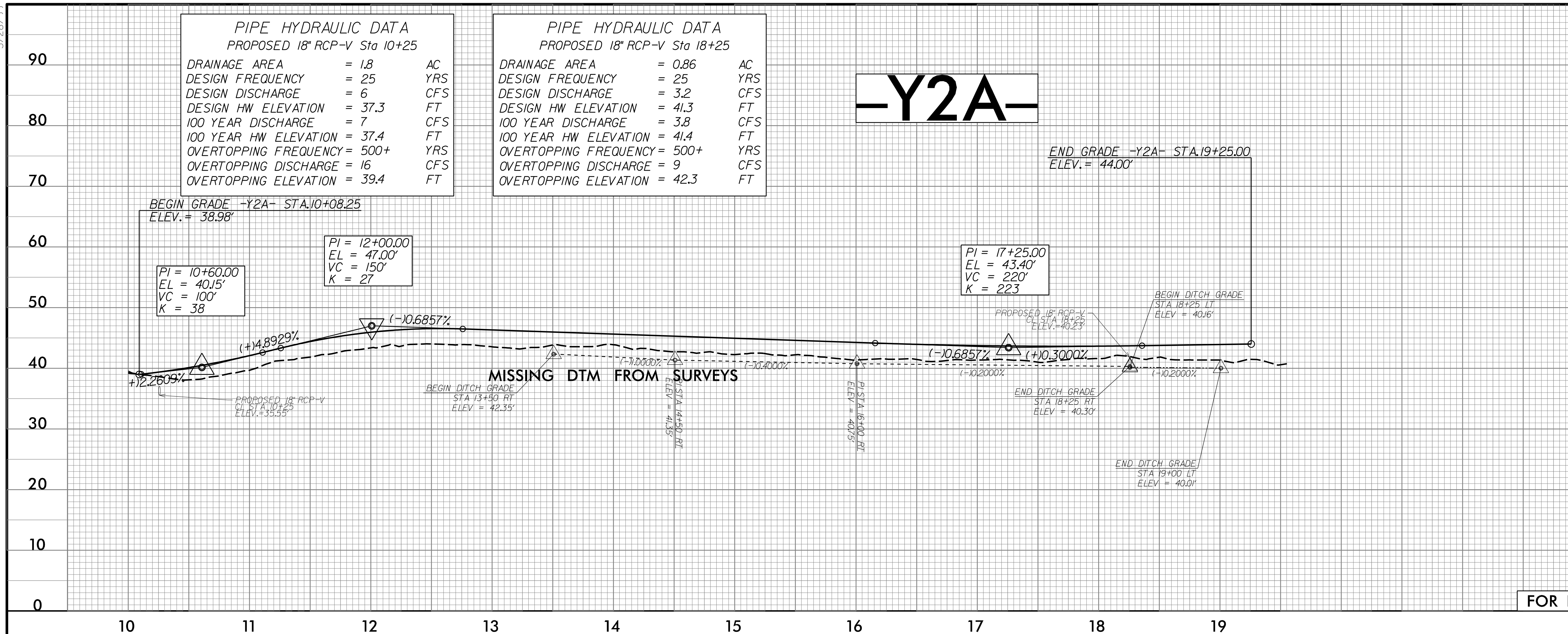
RIGHT DITCH (dashed line symbol) 10

LEFT DITCH (dotted line symbol) 10

FOR PLAN SEE SHEET 5

5/28/99

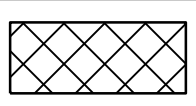


PROJECT REFERENCE NO. R-256/CA	SHEET NO. 26
ROADWAY DESIGN ENGINEER 	HYDRAULICS ENGINEER 
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FOR PLAN SEE SHEET 5 & 6

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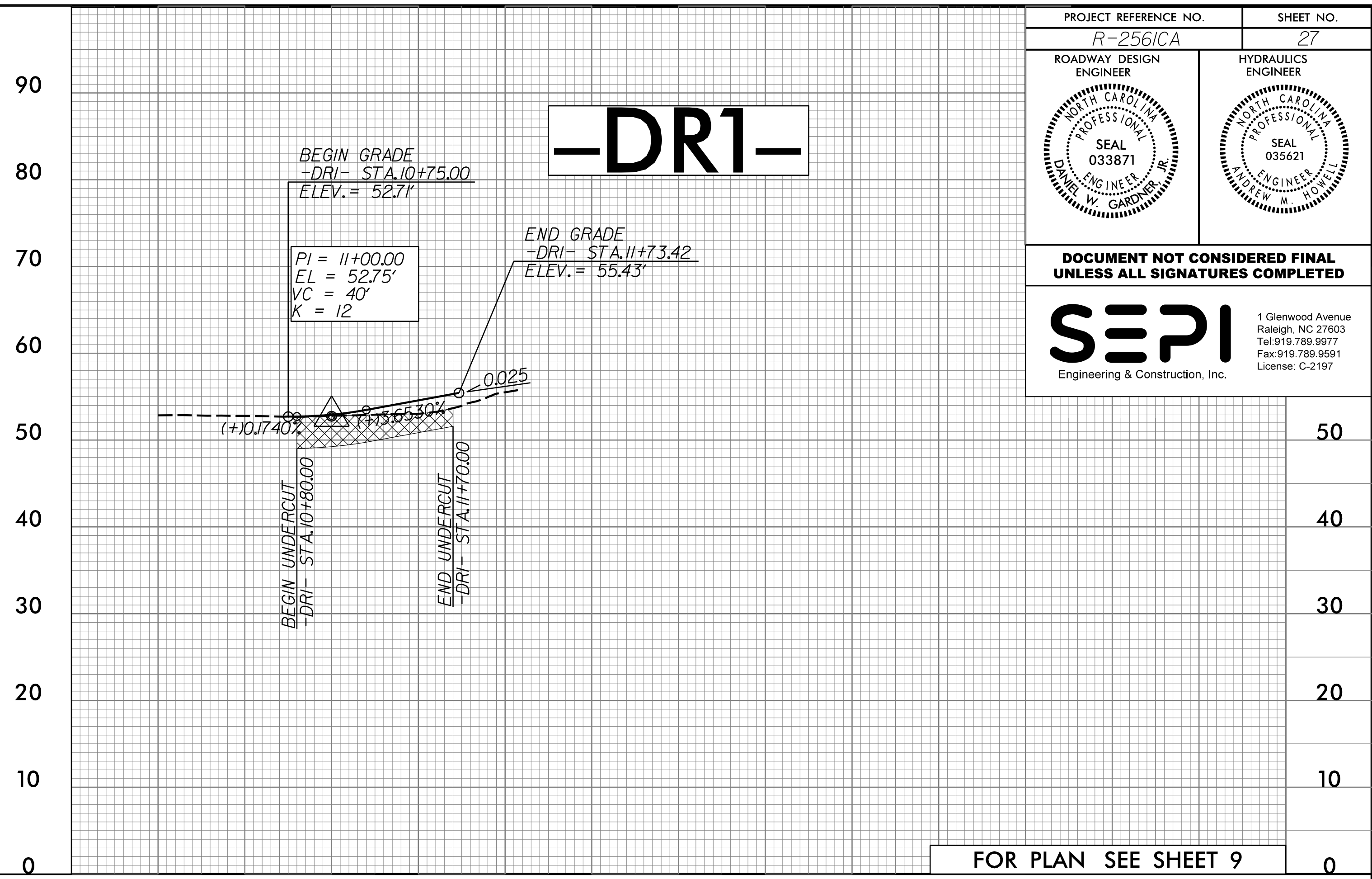
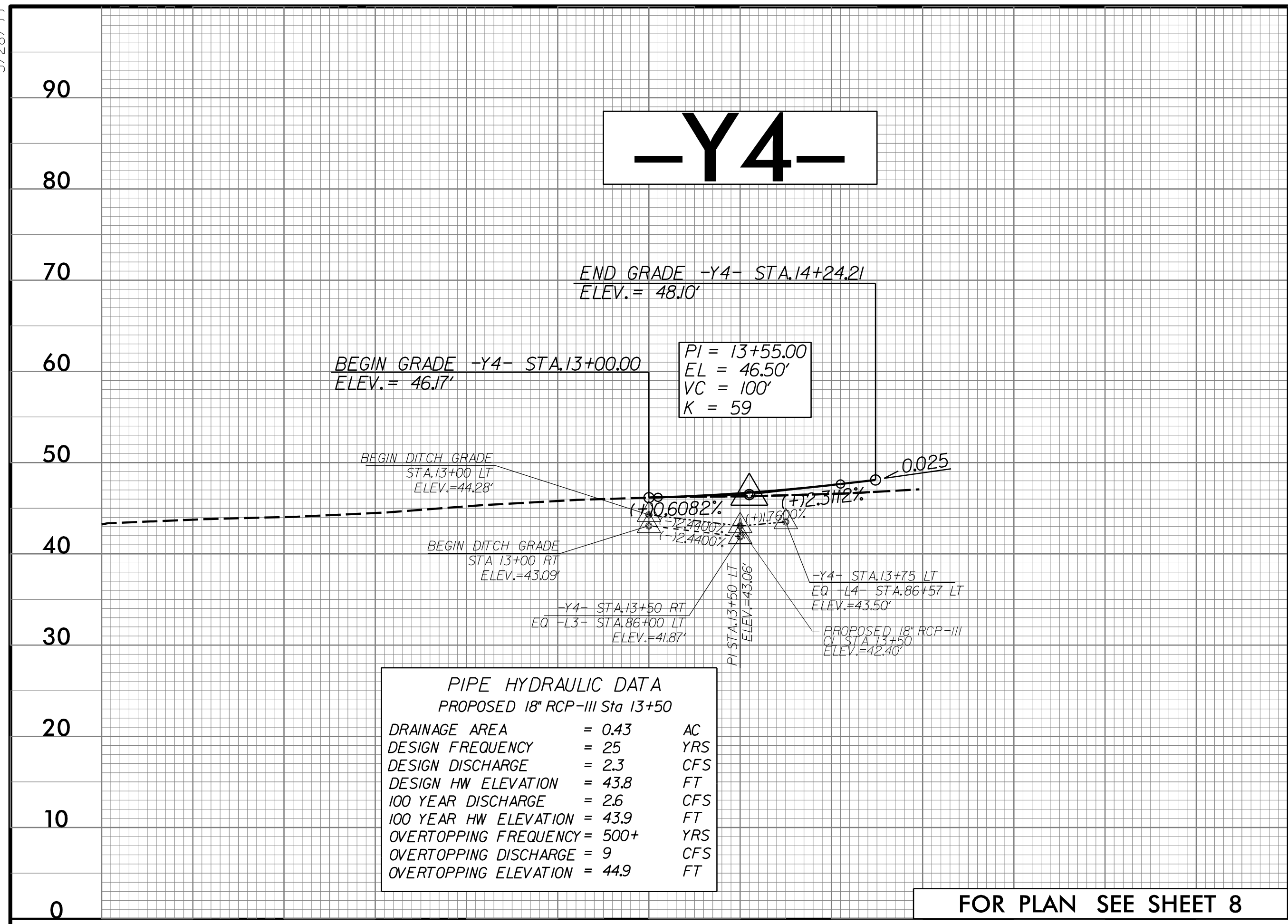


	UNDERCUT EXCAVATION	20
DITCH LEGEND		
	RIGHT DITCH	10
	LEFT DITCH	10

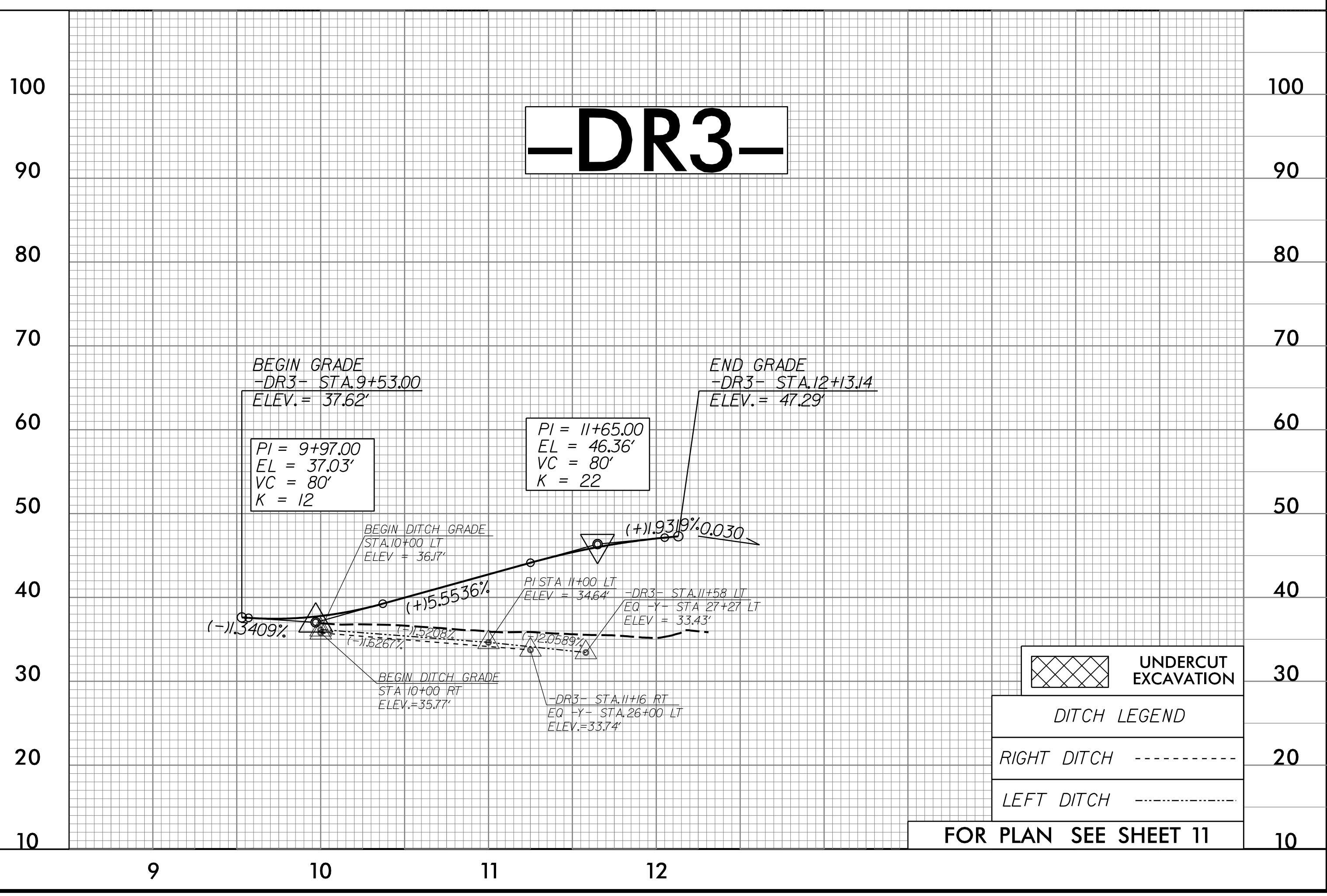
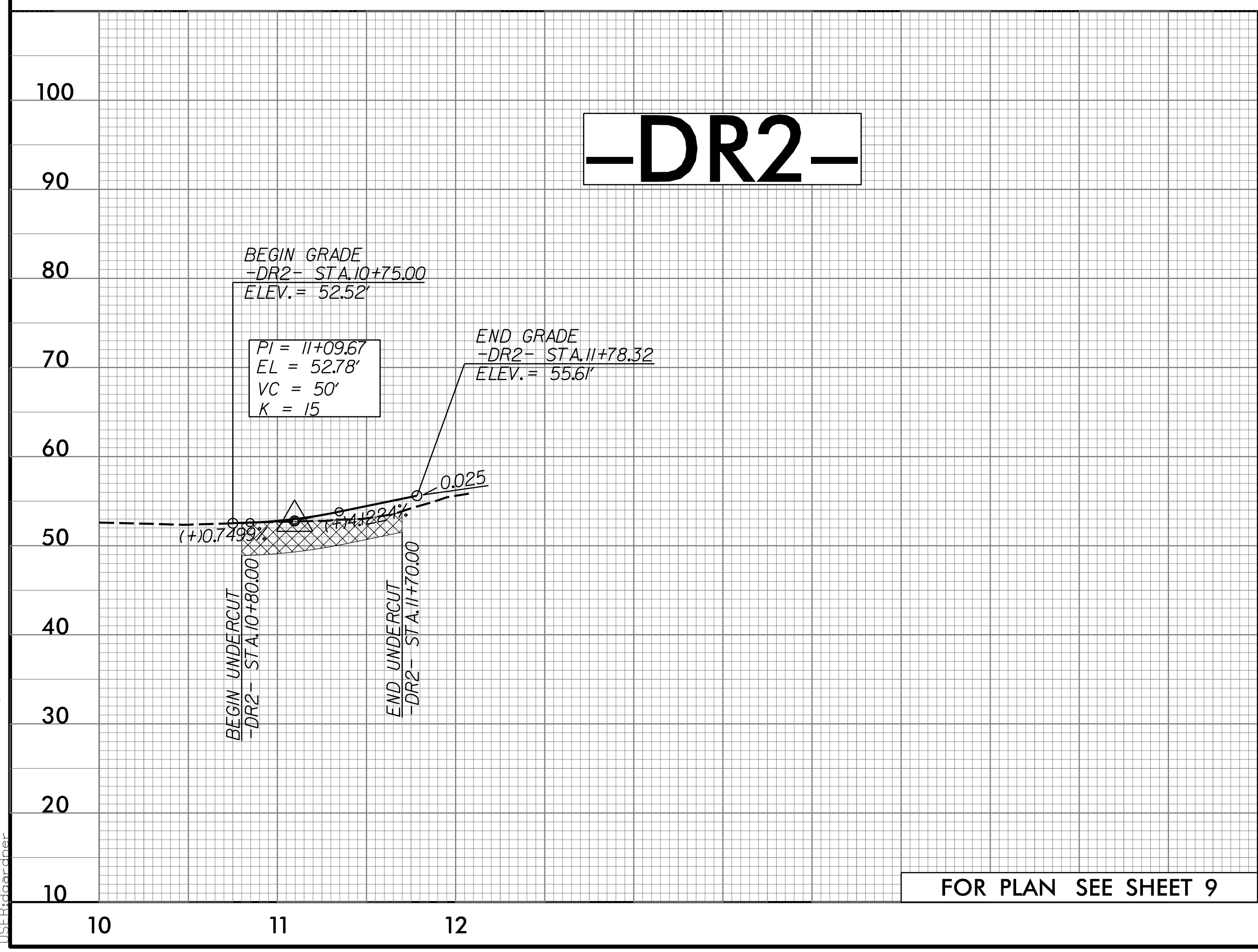
FOR PLAN SEE SHEET 5 & 13

5/28/99

PROJECT REFERENCE NO. R-256/CA		SHEET NO. 27	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
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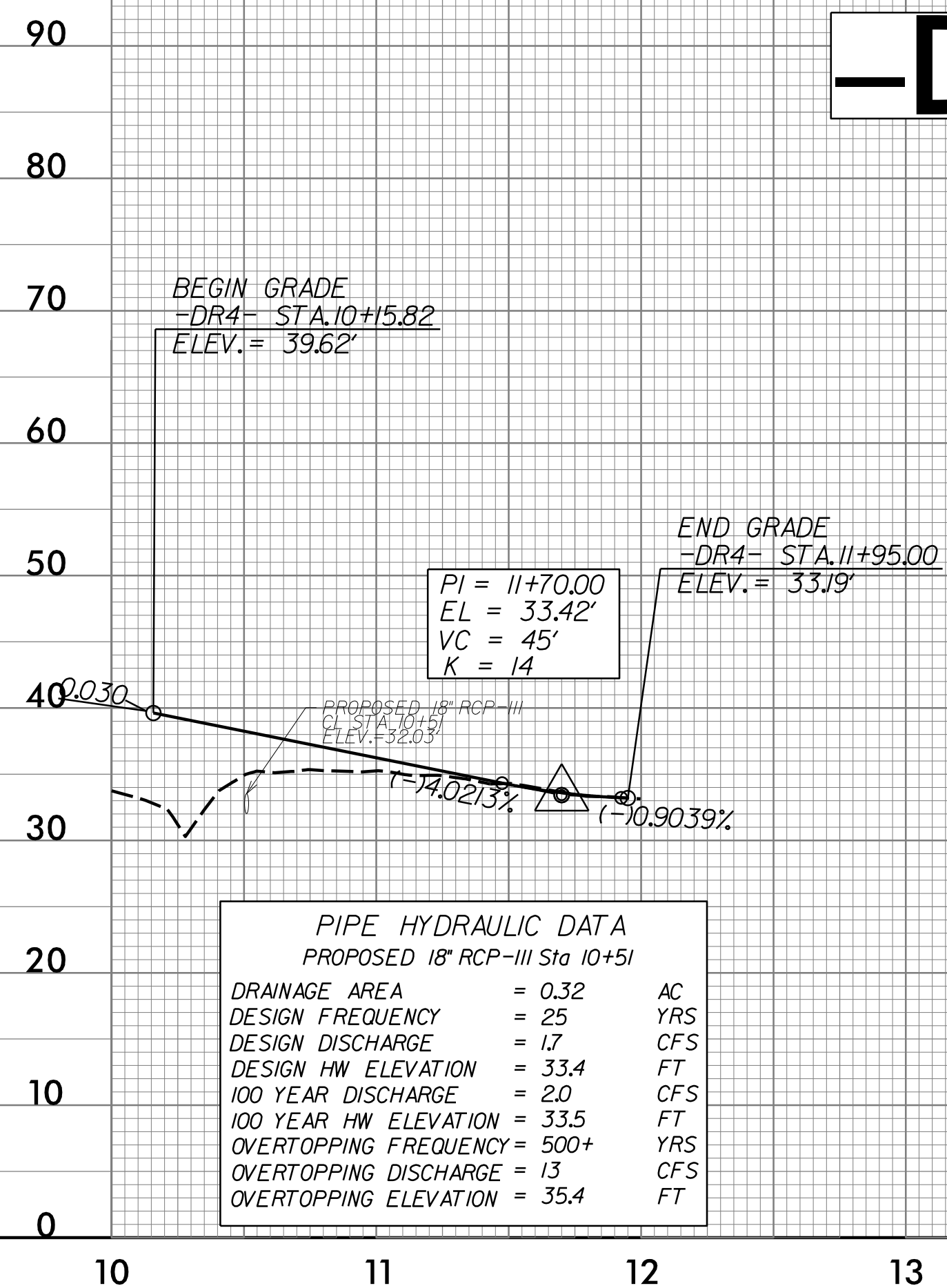


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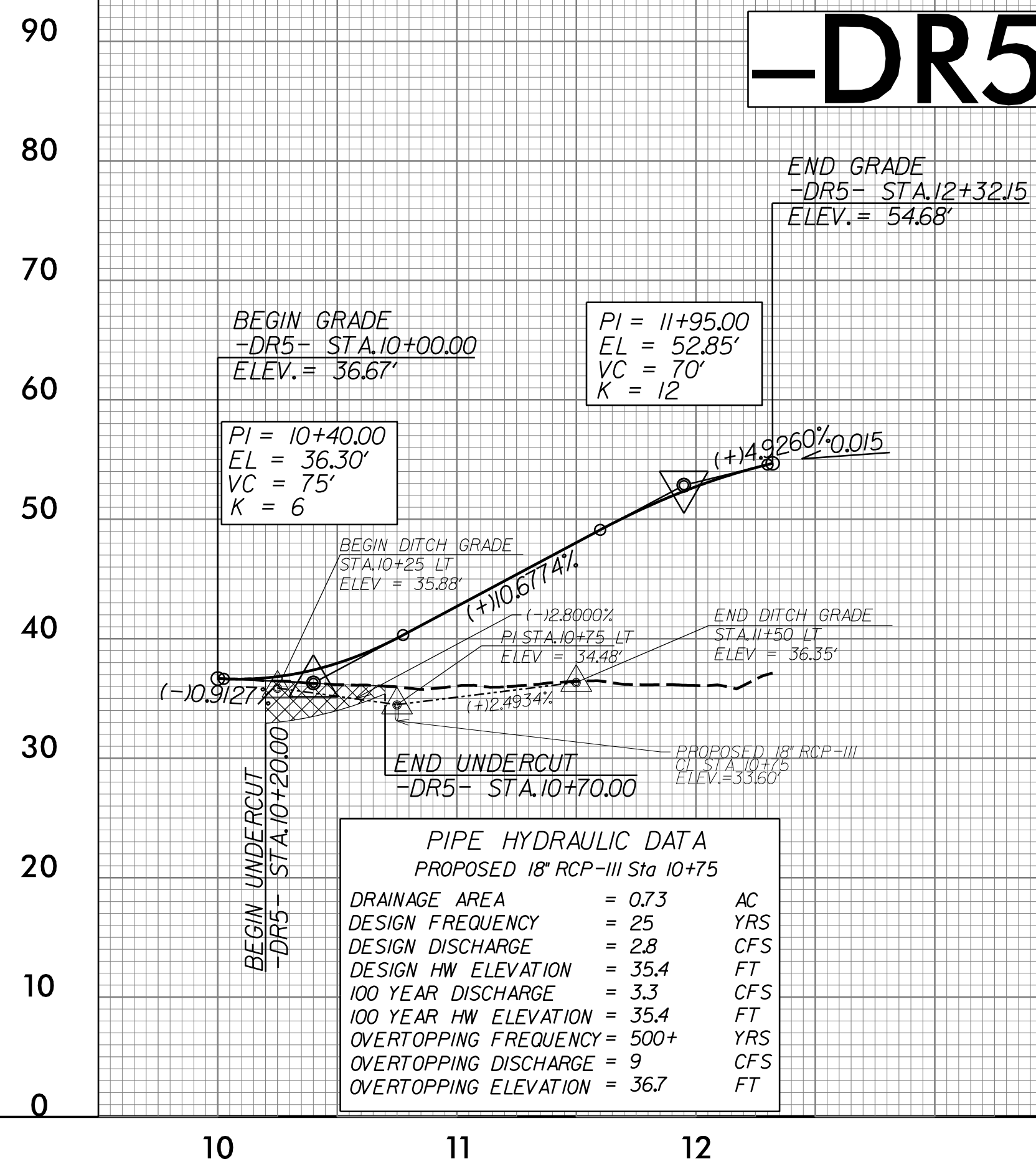
-DR4-



PIPE HYDRAULIC DATA	
PROPOSED 18" RCP-III Sta 10+51	
DRAINAGE AREA	= 0.32 AC
DESIGN FREQUENCY	= 25 YRS
DESIGN DISCHARGE	= 1.7 CFS
DESIGN HW ELEVATION	= 33.4 FT
100 YEAR DISCHARGE	= 2.0 CFS
100 YEAR HW ELEVATION	= 33.5 FT
OVERTOPPING FREQUENCY	= 500+ YRS
OVERTOPPING DISCHARGE	= 13 CFS
OVERTOPPING ELEVATION	= 35.4 FT

FOR PLAN SEE SHEET 11

-DR5-



PIPE HYDRAULIC DATA	
PROPOSED 18" RCP-III Sta 10+75	
DRAINAGE AREA	= 0.73 AC
DESIGN FREQUENCY	= 25 YRS
DESIGN DISCHARGE	= 2.8 CFS
DESIGN HW ELEVATION	= 35.4 FT
100 YEAR DISCHARGE	= 3.3 CFS
100 YEAR HW ELEVATION	= 35.4 FT
OVERTOPPING FREQUENCY	= 500+ YRS
OVERTOPPING DISCHARGE	= 9 CFS
OVERTOPPING ELEVATION	= 36.7 FT

FOR PLAN SEE SHEET 7

PROJECT REFERENCE NO. R-256/CA	SHEET NO. 28
ROADWAY DESIGN ENGINEER 	HYDRAULICS ENGINEER
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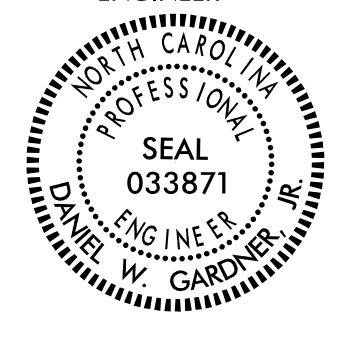
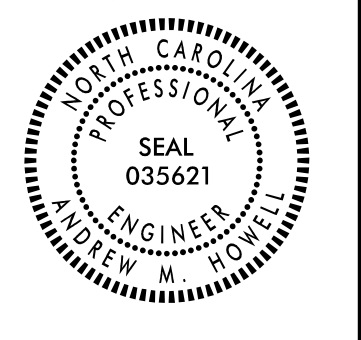

UNDERCUT EXCAVATION

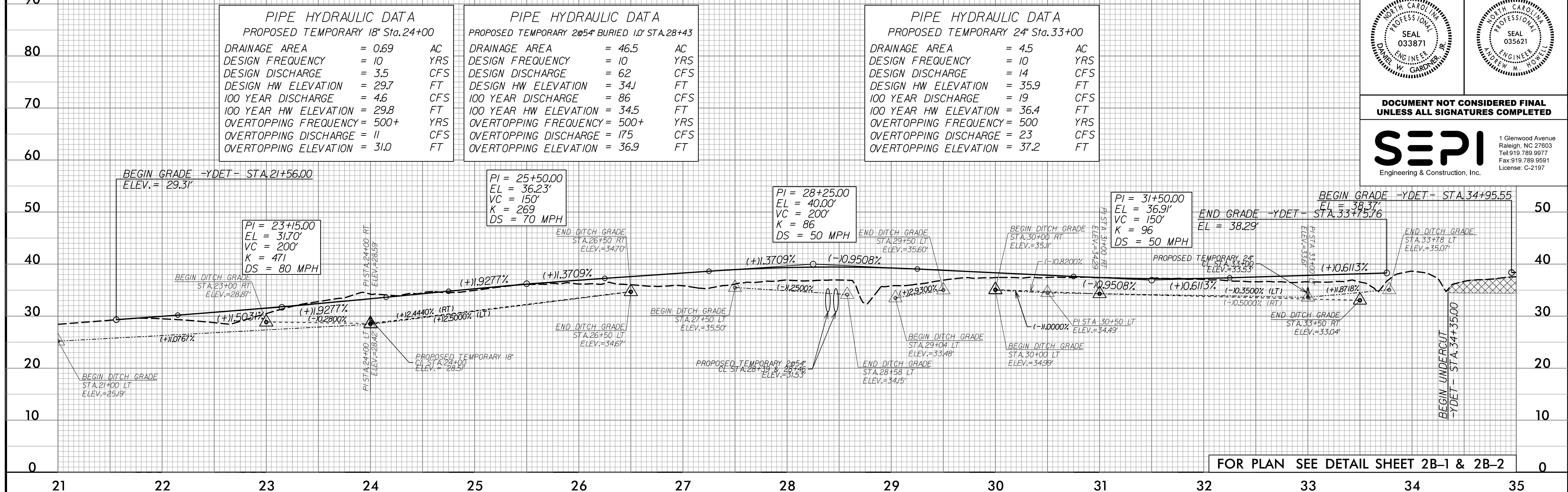
DITCH LEGEND
LEFT DITCH -----

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5/28/99

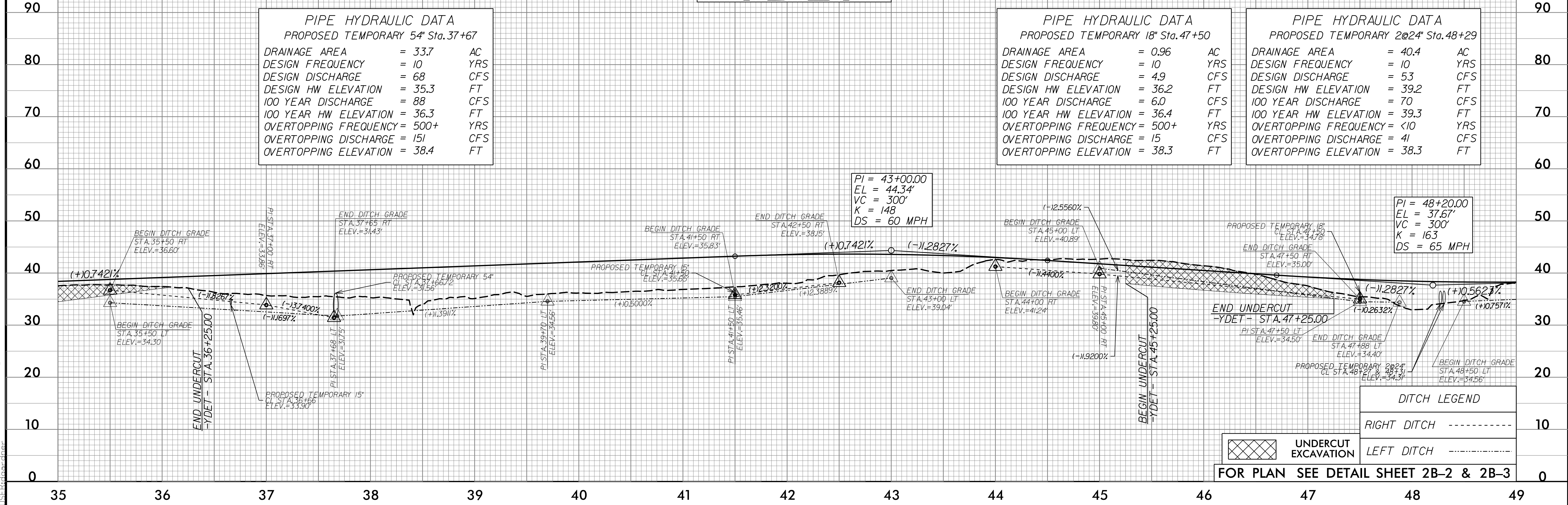
-YDET-

PROJECT REFERENCE NO. R-2561CA	SHEET NO. 29
ROADWAY DESIGN ENGINEER 	HYDRAULICS ENGINEER 
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FOR PLAN SEE DETAIL SHEET 2B-1 & 2B-2

-YDET-





FOR PLAN SEE DETAIL SHEET 2B-2 & 2B-3

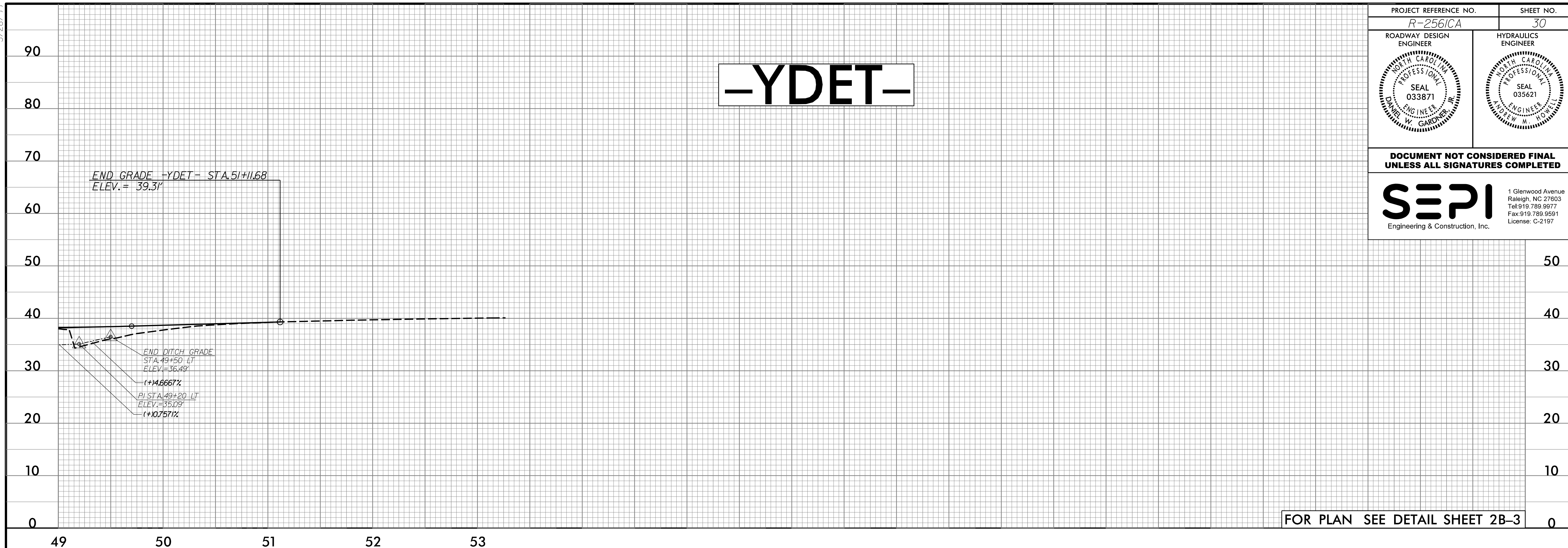
DITCH LEGEND	
	RIGHT DITCH
	LEFT DITCH

8/26/2002 R-2561CA_Rdy.pfl_29.dgn

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PROJECT REFERENCE NO. <i>R-256/CA</i>	SHEET NO. <i>30</i>
ROADWAY DESIGN ENGINEER 	HYDRAULICS ENGINEER 
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-YDET-



DITCH LEGEND	
LEFT DITCH	-----

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