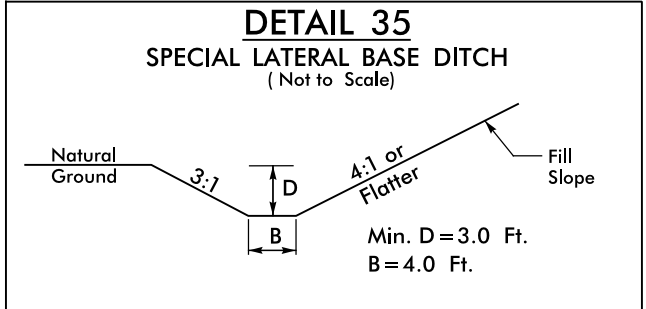
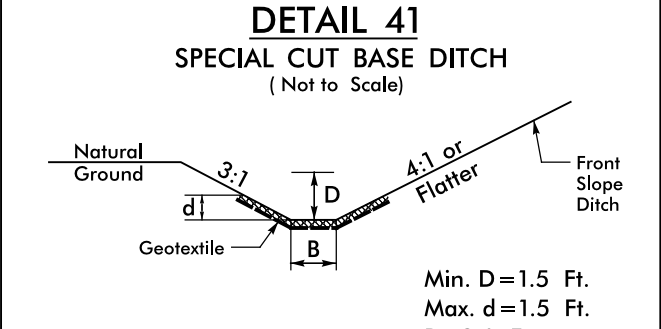


8/17/99

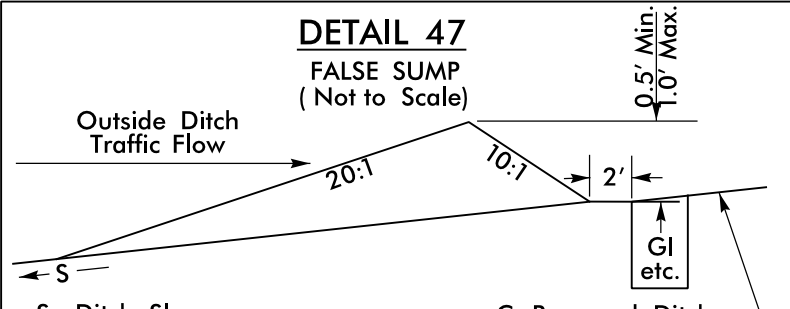
12-MAR-2021 08:31
\\V:\Projects\2021\11-5986B_Rdy.psh_2D-3.dgn
8:58:50 PM



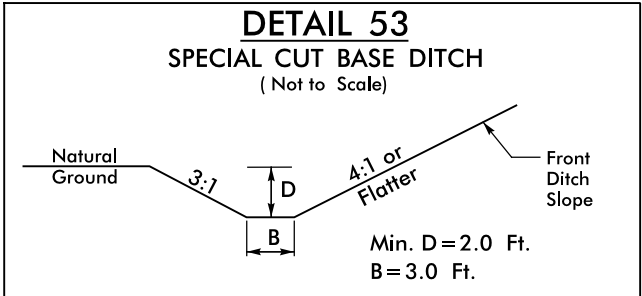
FROM STA. 35+00 TO STA. 36+14 -SR17- RT



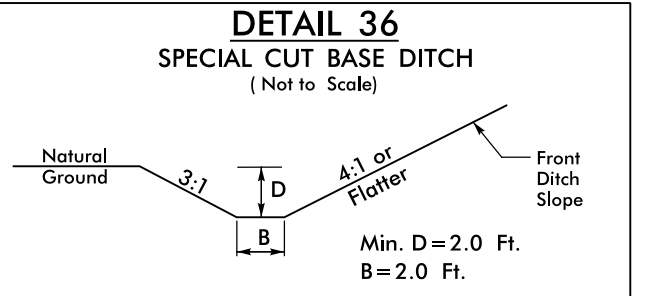
Type of Liner=Class B Rip-Rap
FROM STA. 13+50 TO STA. 15+50 -Y16- LT



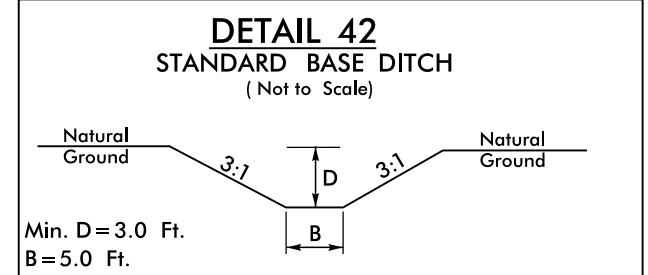
STA. 93+85 -SR15- RT
STA. 40+85 -Y16- LT
STA. 14+00 -SR16- LT



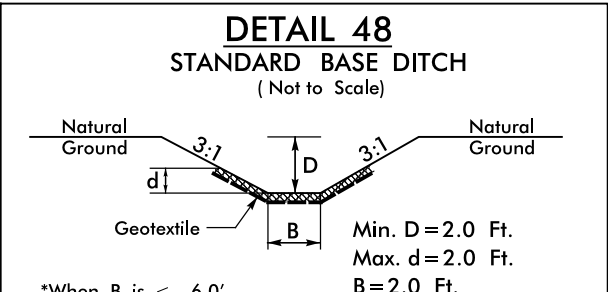
FROM STA. 10+37 TO STA. 16+35 -Y17RPD- LT



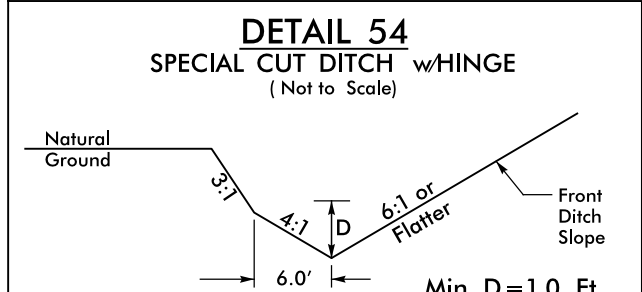
FROM STA. 1207+25 TO STA. 1211+45 -L- RT
FROM STA. 36+33 TO STA. 39+00 -SR17- RT



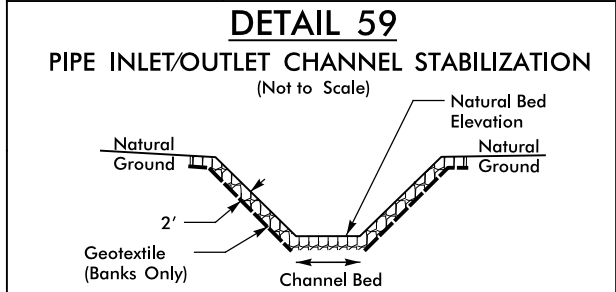
STA. 1100+80 -L- RT



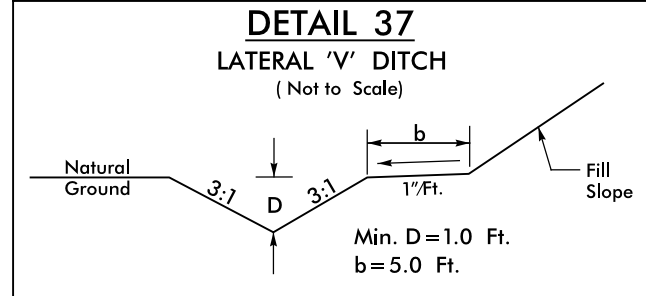
*When B is < 6.0'
Type of Liner= Class B Rip-Rap
STA. 18+51 -Y16- LT



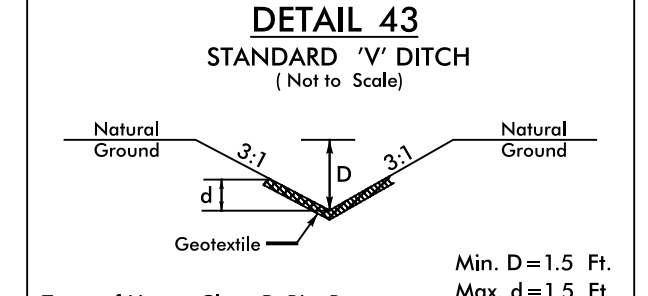
FROM STA. 1224+50 TO STA. 1232+00 -L- LT



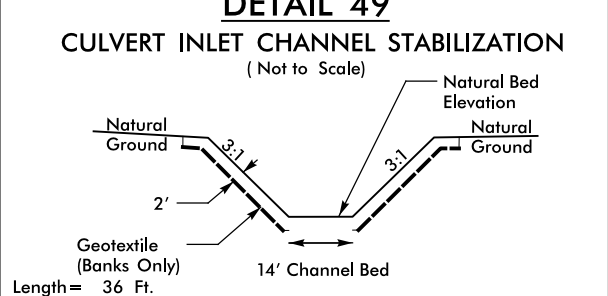
STA. 53+86 -SR13- LT
STA. 39+35 -SR14- RT
STA. 33+28 -SR15- RT
STA. 88+40 -SR15- RT
STA. 64+18 -SR16- LT
STA. 22+17 -Y16RPC- RT



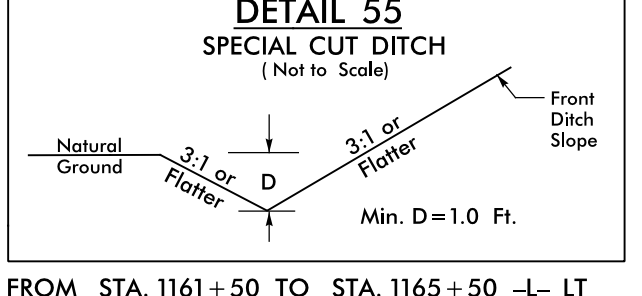
FROM STA. 32+50 TO STA. 34+50 -Y16- LT



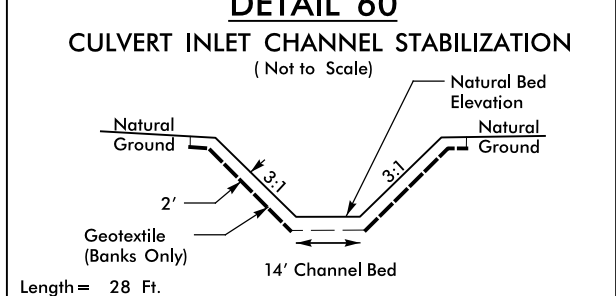
STA. 10+16 -SR16- RT



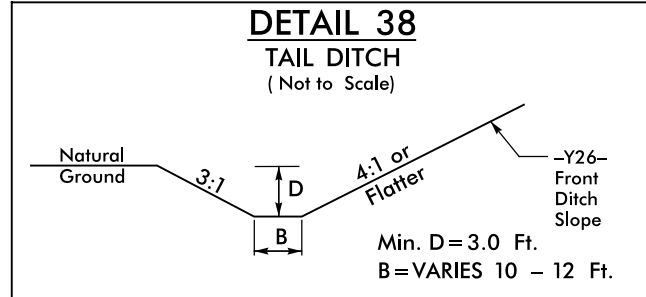
STA. 1220+29 -L- LT



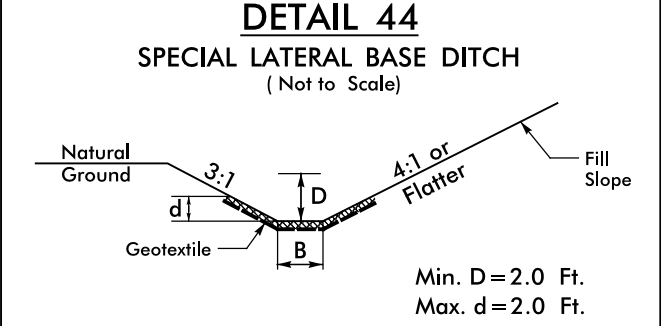
FROM STA. 1161+50 TO STA. 1165+50 -L- LT
FROM STA. 16+50 TO STA. 17+50 -Y16- LT



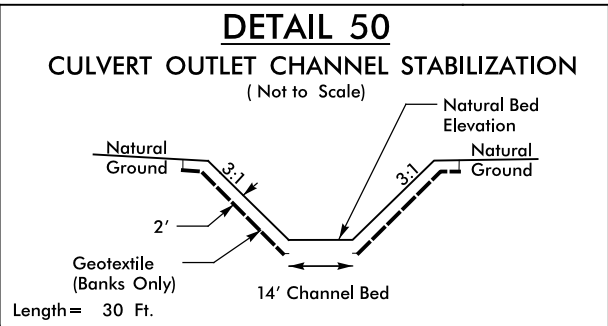
STA. 1220+29 -L- LT



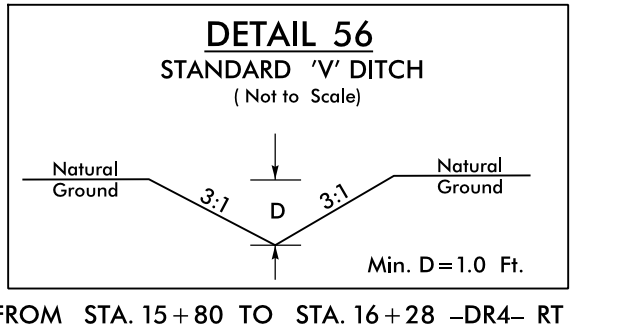
STA. 82+10 -SR15- RT



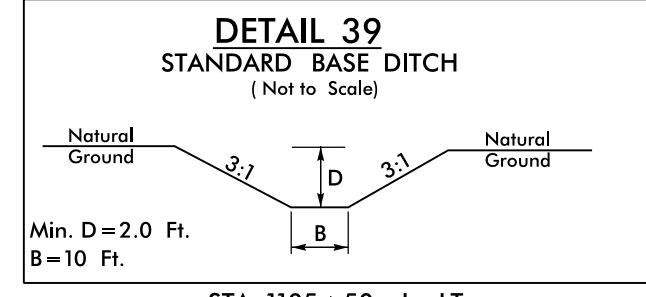
Type of Liner=Class B Rip-Rap
FROM STA. 22+33 TO STA. 25+30 -Y16RPA- RT



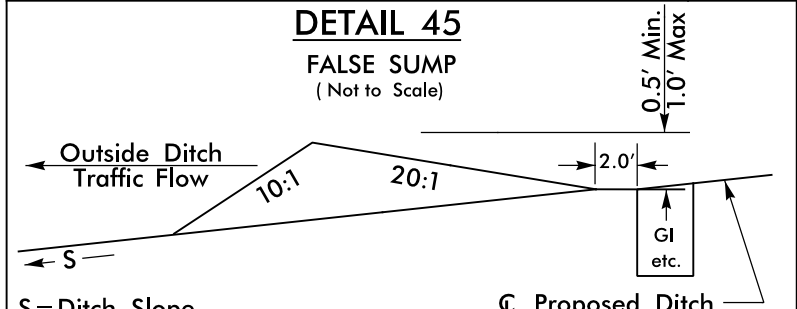
STA. 1220+43 -L- RT



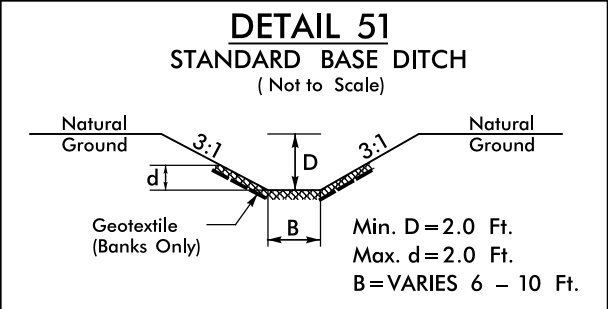
FROM STA. 15+80 TO STA. 16+28 -DR4- RT



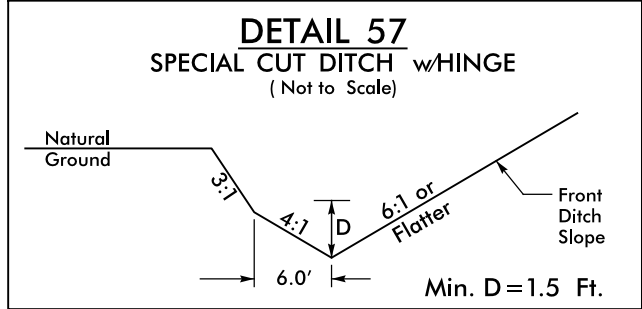
STA. 1105+50 -L- LT



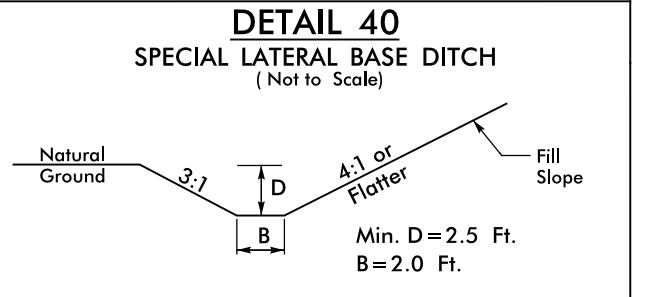
STA. 1094+85 -L- LT
STA. 1096+85 -L- LT
STA. 12+85 -DR3- LT



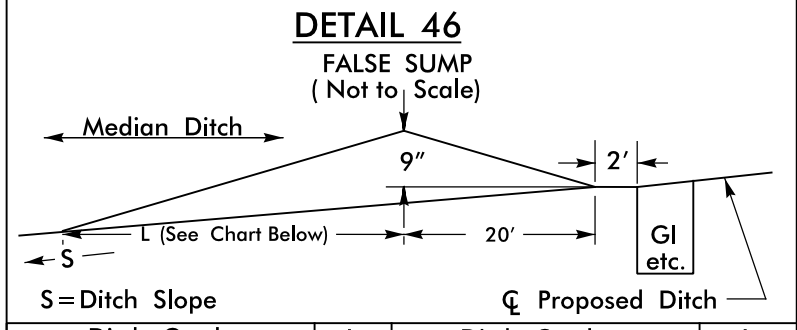
STA. 1128+15 -L- LT



FROM STA. 1096+00 TO STA. 1100+00 -L- LT
FROM STA. 1118+00 TO STA. 1122+00 -L- LT
FROM STA. 1137+50 TO STA. 1144+00 -L- LT



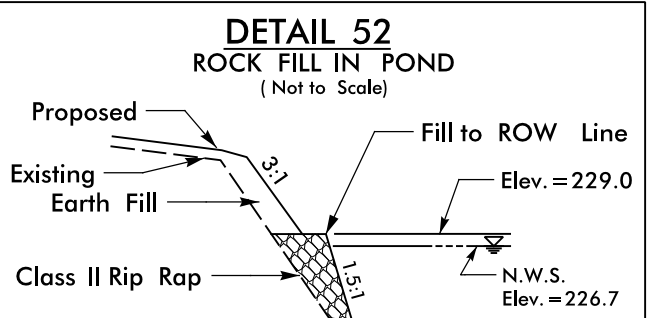
FROM STA. 1219+00 TO STA. 1220+23 -L- LT



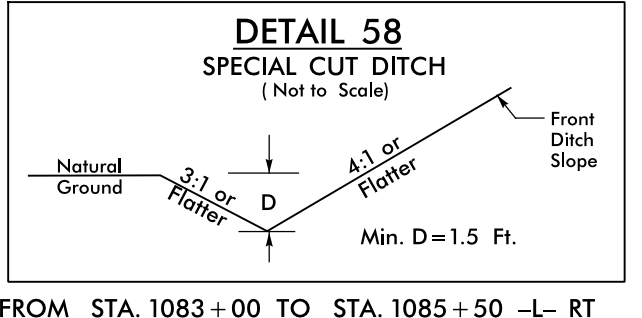
Ditch Grade	L	Ditch Grade	L
0.0% To 2.0%	20'	Over 4.0% To 6.0%	40'
Over 2.0% To 4.0%	30'	Over 6.0%	50'

STA. 1067+15 -L- LT
STA. 1073+20 -L- LT
STA. 1080+50 -L- LT
STA. 1148+85 -L- LT
STA. 1158+35 -L- LT
STA. 1177+55 -L- LT
STA. 1189+63 -L- LT

STA. 1070+15 -L- LT
STA. 1078+25 -L- RT
STA. 1145+87 -L- LT
STA. 1155+40 -L- LT
STA. 1161+35 -L- LT
STA. 1186+72 -L- LT
STA. 1223+35 -L- RT

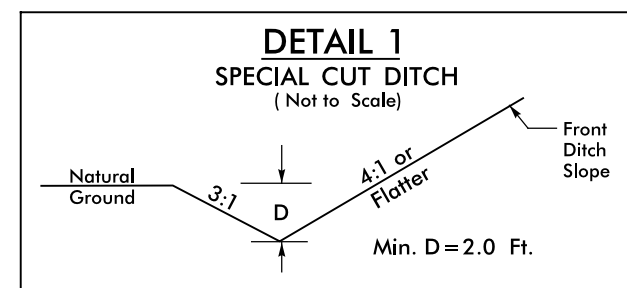


FROM STA. 34+00 TO STA. 34+85 -SR17- RT

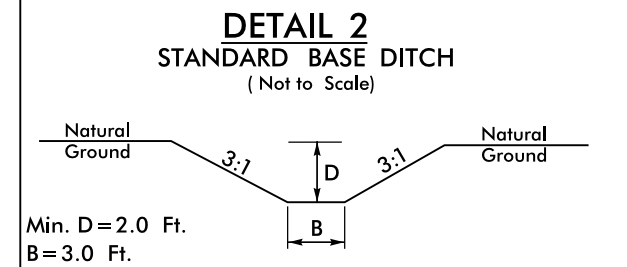


FROM STA. 1083+00 TO STA. 1085+50 -L- RT
FROM STA. 1178+00 TO STA. 1183+40 -L- RT

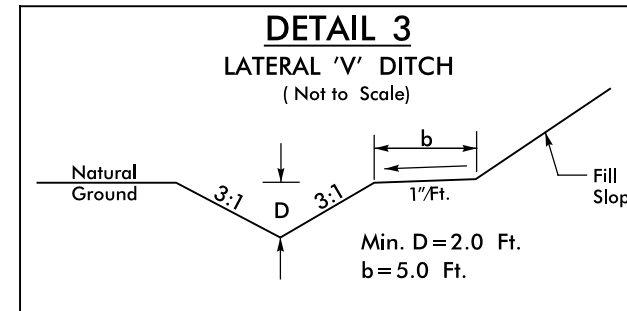
PROJECT REFERENCE NO. 1-5883		SHEET NO. 2D-4	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER SEAL 027373 Susan C. Lancaster Professional Engineer No. 000527373 Exp. 12/31/2021 5/13/2021		HYDRAULICS ENGINEER SEAL 26971 Joshua G. Dalton Professional Engineer No. 000526971 Exp. 12/31/2021 5/13/2021	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
Michael Baker Engineering, Inc. 6500 Ridgeway Drive Suite 600 Charlotte, NC 27218 NC License: F-1084		SUNGATE DESIGN GROUP, P.A. 100 JONES FARM ROAD RALEIGH, NORTH CAROLINA 27605 NC COA No. G-0880	



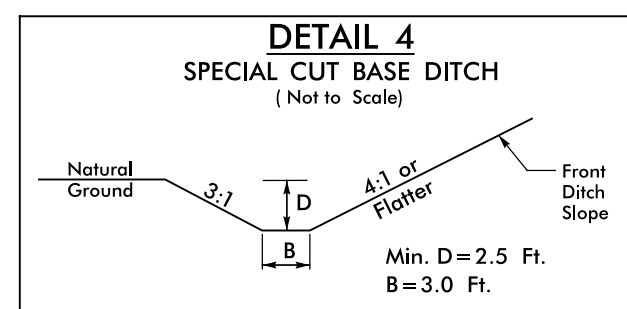
FROM STA. 1285+17 TO STA. 1291+50 -L- RT
FROM STA. 1288+50 TO STA. 1290+00 -L- LT
FROM STA. 1290+20 TO STA. 1294+27 -L- LT
FROM STA. 1295+50 TO STA. 1298+50 -L- RT
FROM STA. 1296+50 TO STA. 1298+50 -L- LT
FROM STA. 1298+50 TO STA. 1300+00 -L- RT
FROM STA. 1322+71.61 TO STA. 1326+00 -L- RT
FROM STA. 1339+85 TO STA. 1341+10 -L- LT
FROM STA. 1340+50 TO STA. 1341+35 -L- RT
FROM STA. 1347+46 TO STA. 1348+75 -L- RT
FROM STA. 19+42 TO STA. 23+32 -Y18RPD- LT
FROM STA. 27+43.67 TO STA. 27+83 -Y29- LT
FROM STA. 34+94 TO STA. 36+01 -Y29- LT
FROM STA. 36+26 TO STA. 36+53 -Y29- LT
FROM STA. 15+15.9 TO STA. 18+88 -Y29A- RT
FROM STA. 35+75.76 TO STA. 39+44 -Y29A- RT



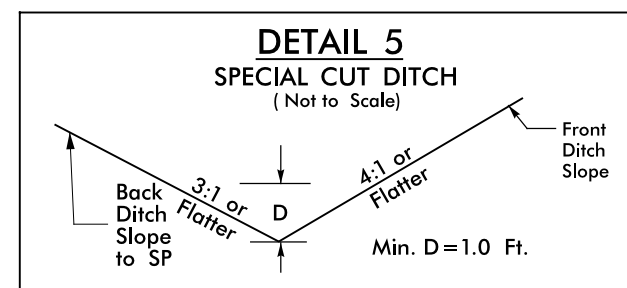
FROM STA. 1290+10 TO STA. 1290+21 -L- LT
FROM STA. 1316+85 TO STA. 1316+96 -L- LT
FROM STA. 33+92 TO STA. 34+04 -Y33- LT



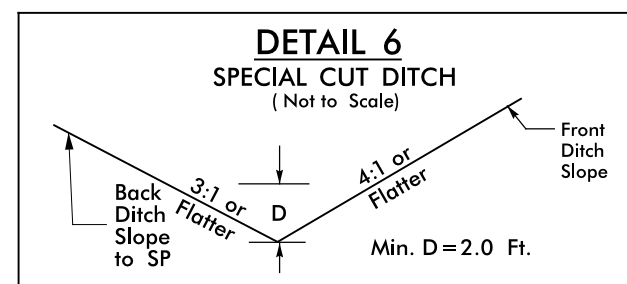
FROM STA. 22+60 TO STA. 27+43.67 -Y29- RT
FROM STA. 34+29.08 TO STA. 35+75.76 -Y29A- RT



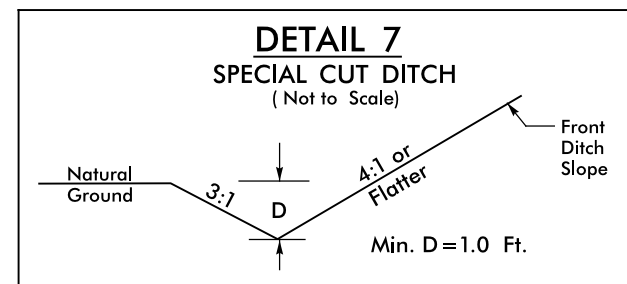
FROM STA. 1298+50 TO STA. 1306+00 -L- LT



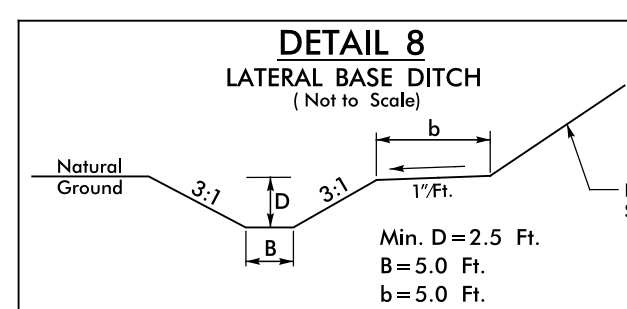
FROM STA. 1233+50 TO STA. 1238+50 -L- RT
FROM STA. 17+92 TO STA. 18+41.81 -Y29A- LT



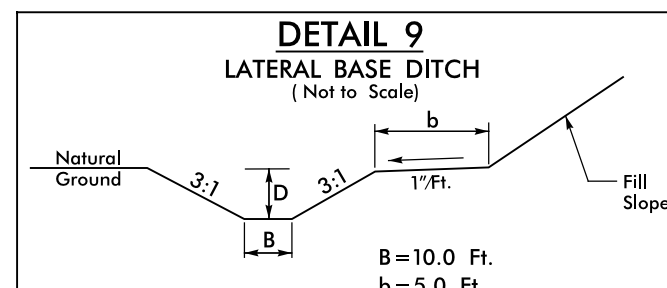
FROM STA. 1301+00 TO STA. 1302+43 -L- RT
FROM STA. 1302+43 TO STA. 1304+00 -L- RT
FROM STA. 1306+50 TO STA. 1312+10 -L- RT
FROM STA. 1313+50 TO STA. 1316+82 -L- RT
FROM STA. 1318+50 TO STA. 1322+71.61 -L- RT
FROM STA. 1351+00 TO STA. 1352+00 -L- RT



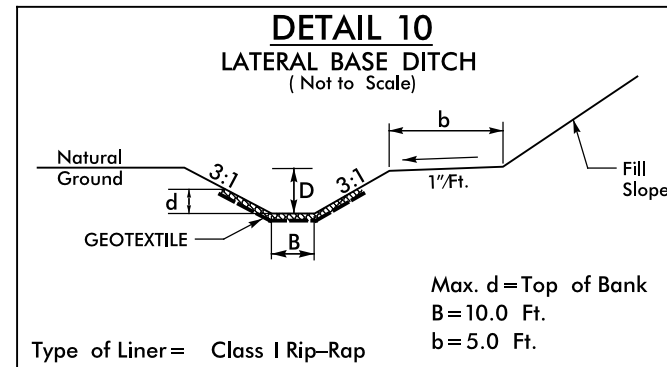
FROM STA. 1324+50 TO STA. 1328+00 -L- LT
FROM STA. 15+75 TO STA. 13+00 -Y28- RT
FROM STA. 19+00 TO STA. 21+31 -Y28- LT
FROM STA. 43+74.75 TO STA. 46+88 -Y33- RT



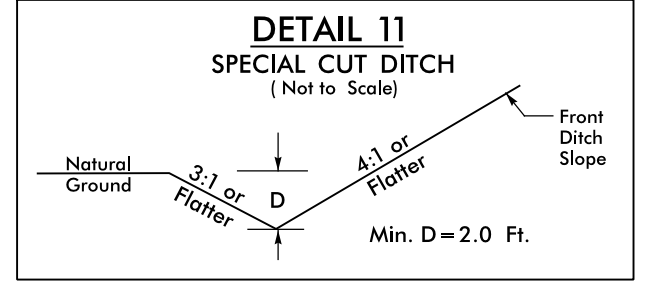
FROM STA. 1267+50 TO STA. 1267+85 -L- RT



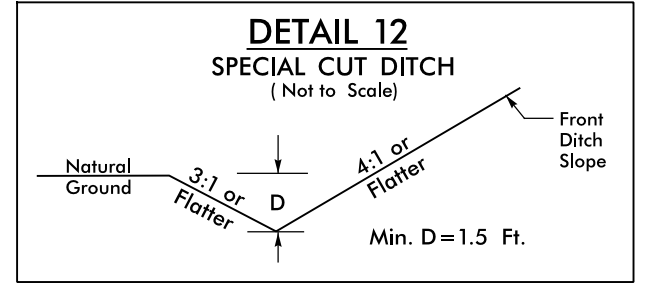
FROM STA. 1265+60 TO STA. 1267+50 -L- RT



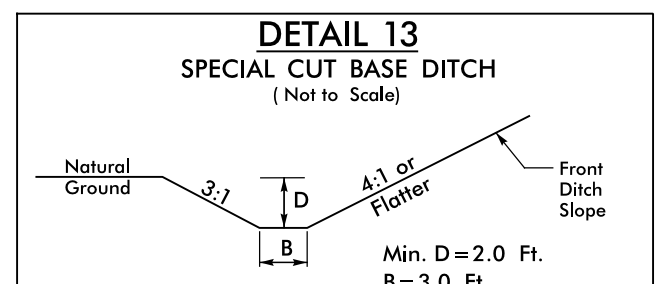
Type of Liner= Class I Rip-Rap
FROM STA. 1265+35 TO STA. 1265+60 -L- RT



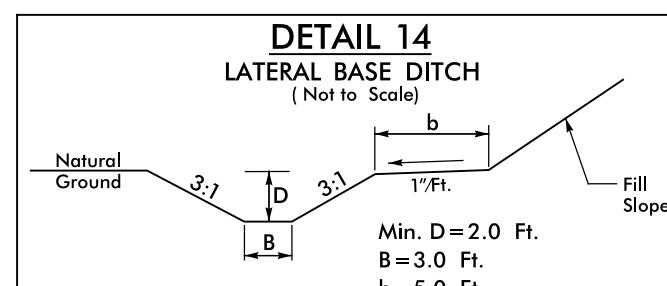
FROM STA. 1337+50 TO STA. 1340+50 -L- RT
FROM STA. 1365+50 TO STA. 1369+00 -L- RT
FROM STA. 22+85 TO STA. 25+10 -Y19RPB- RT
FROM STA. 23+00 TO STA. 25+56 -Y19RPB- LT



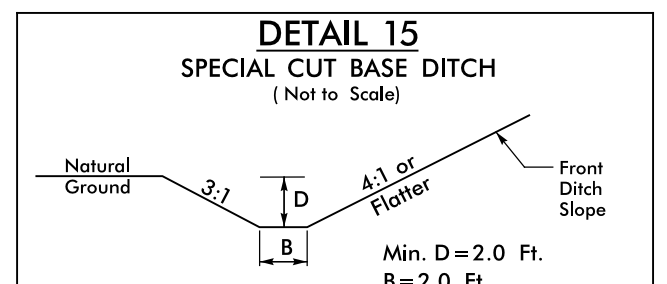
FROM STA. 1367+00 TO STA. 1369+00 -L- LT
FROM STA. 1401+00 TO STA. 1405+50 -L- RT
FROM STA. 38+12 TO STA. 41+05.50 -Y33- LT
FROM STA. 40+10 TO STA. 40+60 -Y33- RT



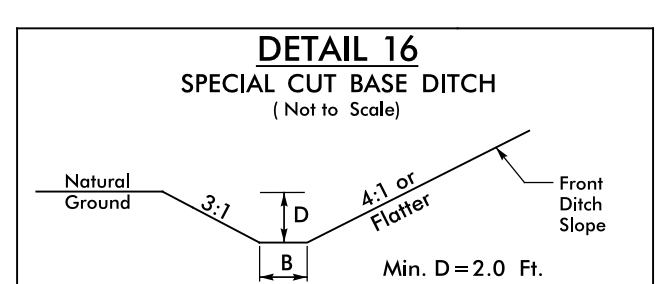
FROM STA. 1308+50 TO STA. 1311+00 -L- LT



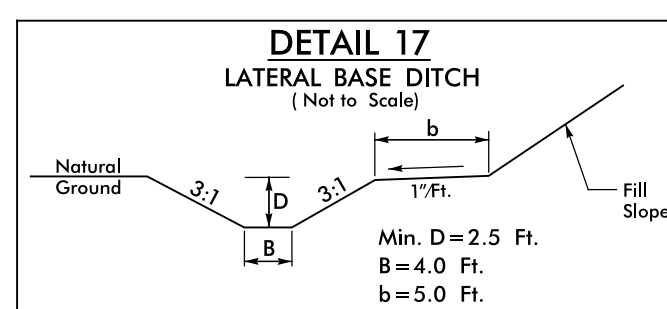
FROM STA. 1311+00 TO STA. 1316+90 -L- LT



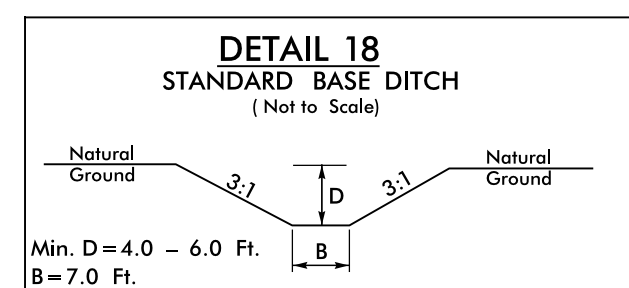
FROM STA. 1374+00 TO STA. 1376+00 -L- LT
FROM STA. 11+97.27 TO STA. 17+24 -Y18RPC- RT



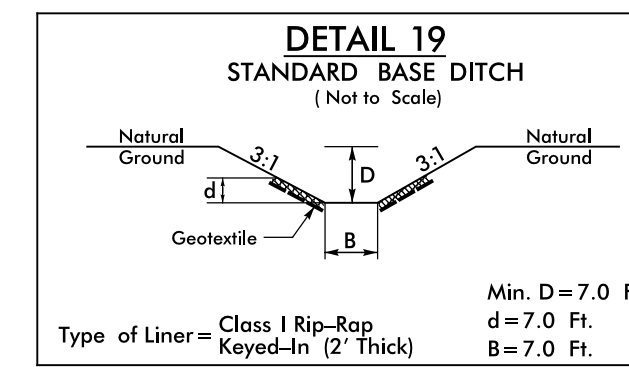
FROM STA. 1405+50 TO STA. 1415+28 -L- RT
FROM STA. 63+28.34 TO STA. 65+60 -SR17- RT



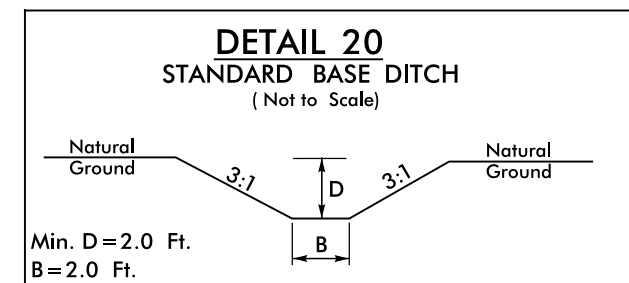
FROM STA. 18+15 TO STA. 19+75.5 -Y33- RT
FROM STA. 33+50 TO STA. 35+56 -Y33- LT



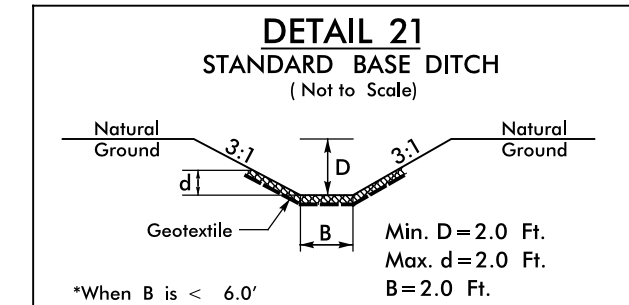
STA. 19+20 -Y18RPD- LT



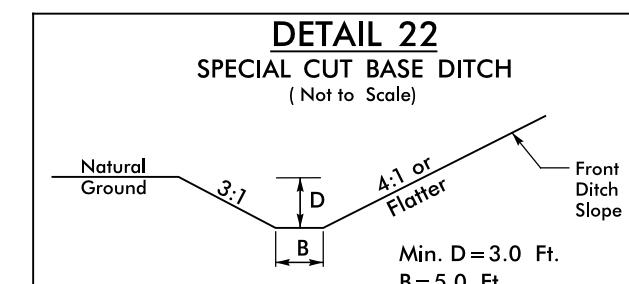
Type of Liner= Class I Rip-Rap
Keyed-In (2" Thick)
STA. 1347+25 -L- RT
STA. 19+40 -Y18RPD- LT



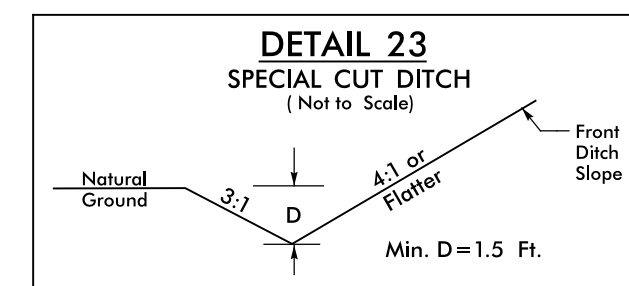
FROM STA. 18+65 TO STA. 19+61 -Y18RPC- LT
FROM STA. 30+88 TO STA. 31+42 -Y18- LT



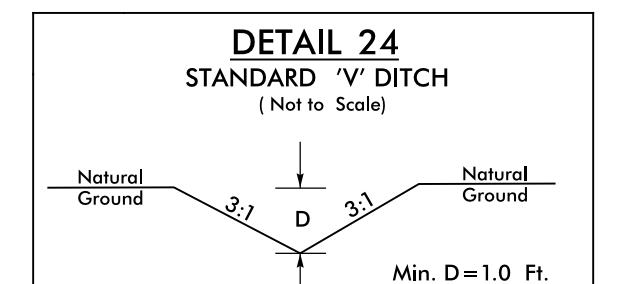
*When B is < 6.0'
Type of Liner= Class B Rip-Rap
FROM STA. 20+09 TO STA. 20+50 -Y30- LT



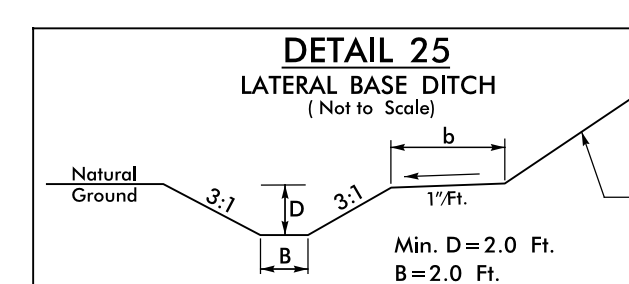
FROM STA. 1345+00 TO STA. 1347+15 -L- RT



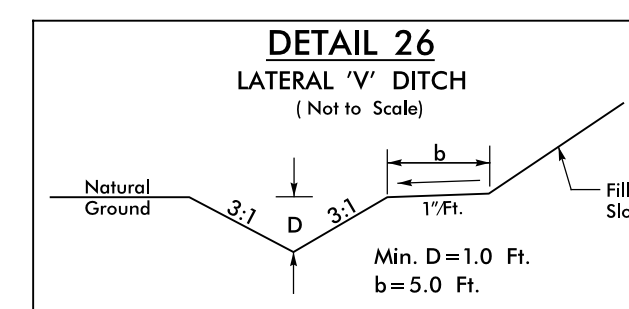
FROM STA. 1326+00 TO STA. 1327+87 -L- RT



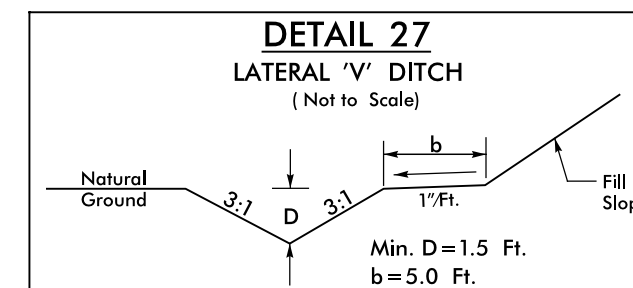
FROM STA. 30+26 TO STA. 31+00 -Y18- RT
FROM STA. 23+39 TO STA. 23+58 -Y30- RT



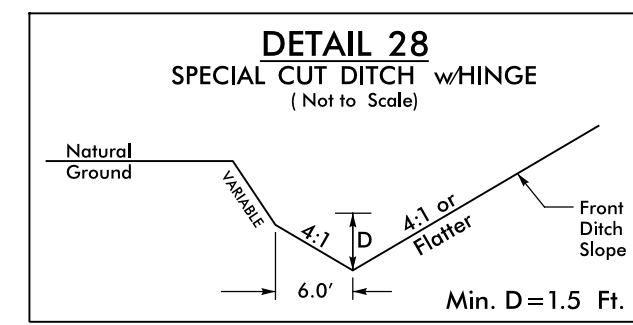
FROM STA. 18+88 TO STA. 34+23 -Y29A- RT



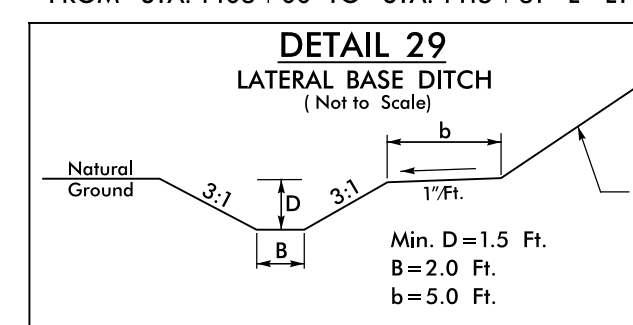
FROM STA. 29+50 TO STA. 31+00 -Y29- LT



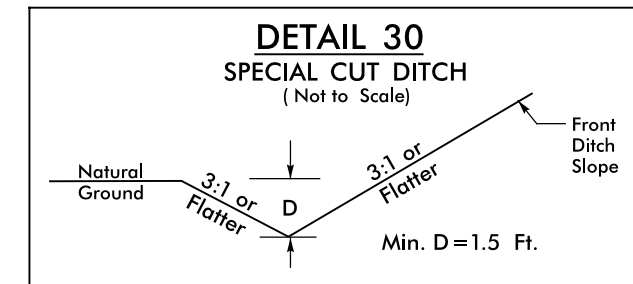
FROM STA. 31+00 TO STA. 34+34 -Y29- LT



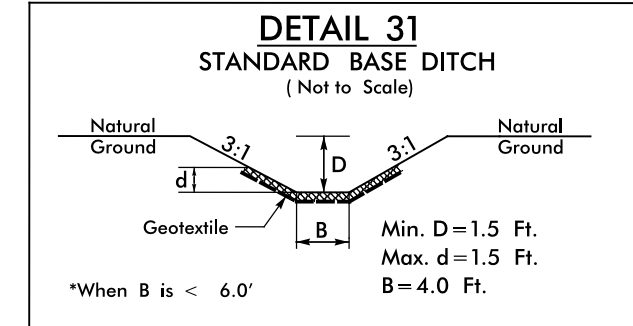
FROM STA. 1285+00 TO STA. 1288+00 -L- LT
FROM STA. 1355+00 TO STA. 1355+50 -L- LT
FROM STA. 1357+50 TO STA. 1363+00 -L- LT
FROM STA. 1399+00 TO STA. 1406+00 -L- LT
FROM STA. 1408+00 TO STA. 1415+81 -L- LT



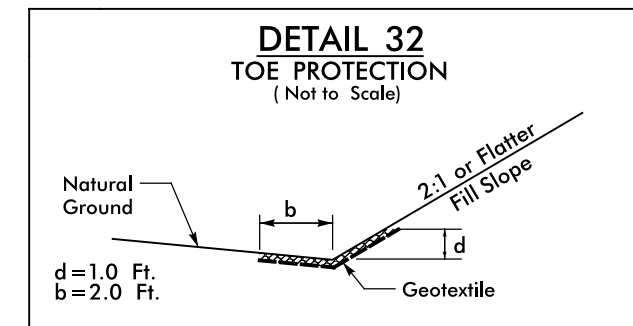
FROM STA. 35+87 TO STA. 38+12 -Y33- LT



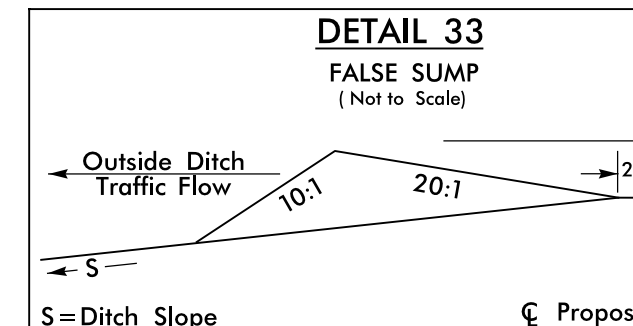
FROM STA. 12+02.79 TO STA. 16+97.56 -SR19- LT



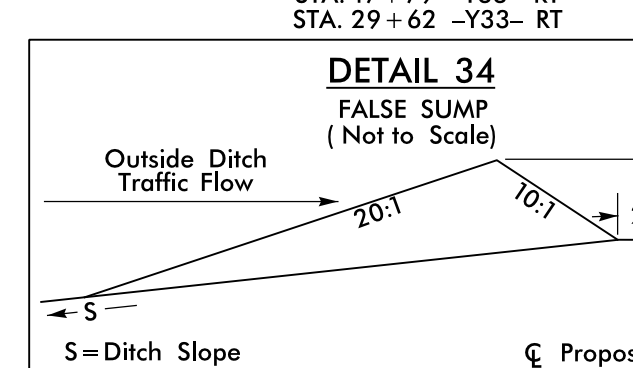
*When B is < 6.0'
Type of Liner= Class B Rip-Rap
FROM STA. 1249+67 TO STA. 1250+36 -L- LT



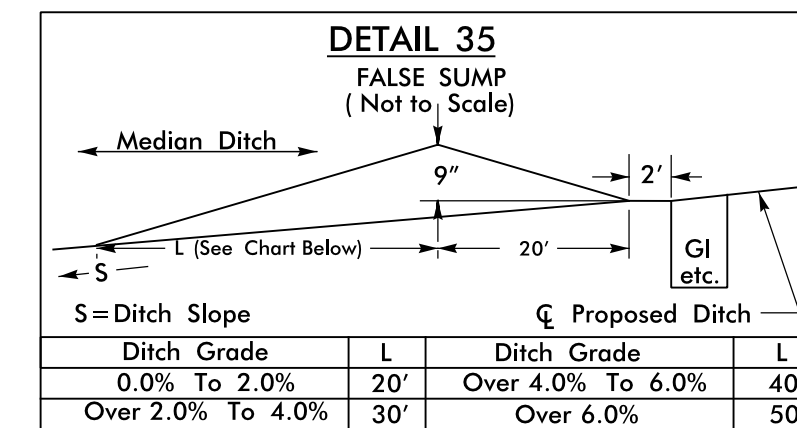
Type of Liner= Class I Rip-Rap
FROM STA. 1391+27 TO STA. 1394+20 -L- LT



STA. 1267+59 -L- LT
STA. 1271+35 -L- LT
STA. 1275+34 -L- LT
STA. 1278+35 -L- LT
STA. 1281+69 -L- LT
STA. 1284+85 -L- LT
STA. 1312+25 -L- RT
STA. 1324+16 -L- RT
STA. 1358+85 -L- LT
STA. 1375+84 -L- LT
STA. 17+79 -Y33- RT
STA. 29+62 -Y33- RT

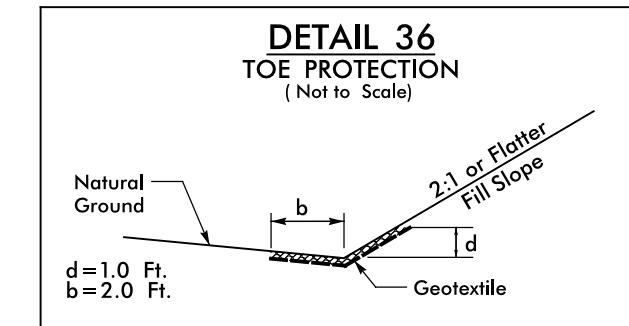


STA. 1249+60 -L- LT
STA. 1251+14 -L- LT
STA. 1268+35 -L- RT
STA. 1272+35 -L- RT
STA. 1276+34 -L- RT
STA. 1338+65 -L- RT
STA. 1358+84 -L- RT
STA. 1365+88 -L- LT
STA. 1369+51 -L- LT
STA. 1373+15 -L- LT
STA. 1376+25 -L- LT
STA. 1380+15 -L- LT
STA. 1383+15 -L- LT
STA. 1387+15 -L- LT
STA. 1396+15 -L- LT
STA. 1398+15 -L- LT
STA. 1402+15 -L- LT
STA. 12+97 -Y18RPD- LT
STA. 15+30 -Y18RPD- LT
STA. 16+67 -Y33- LT

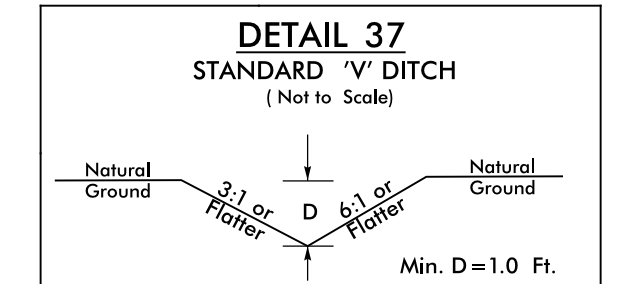


S=Ditch Slope
Ditch Grade L Ditch Grade L
0.0% To 2.0% 20' Over 4.0% To 6.0% 40'
Over 2.0% To 4.0% 30' Over 6.0% 50'

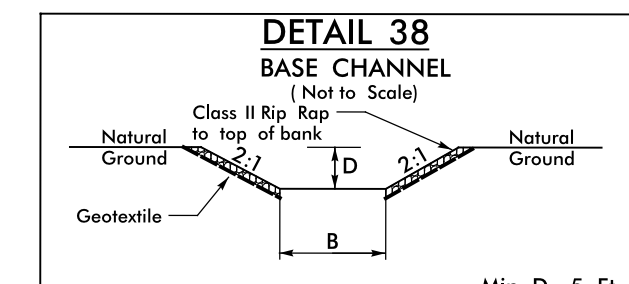
STA. 1410+47 -L-
STA. 1414+48 -L-



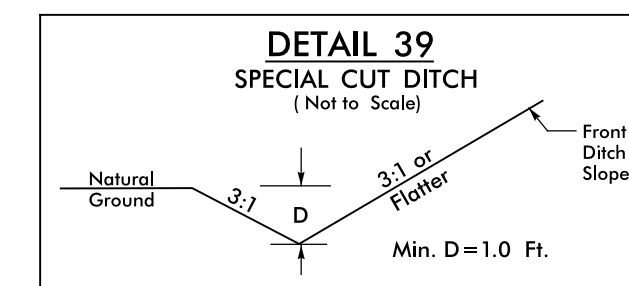
Type of Liner= Class B Rip-Rap
FROM STA. 14+50 TO STA. 14+70 -Y18RPA- RT



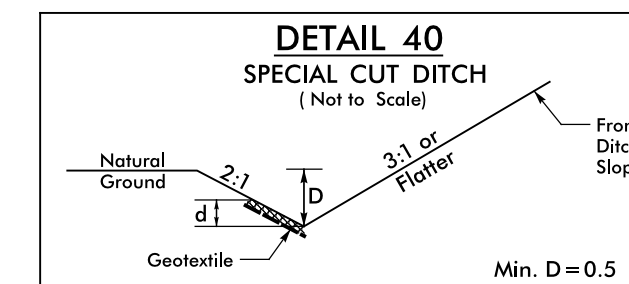
FROM STA. 19+72 TO STA. 23+00 -Y19RPB- LT



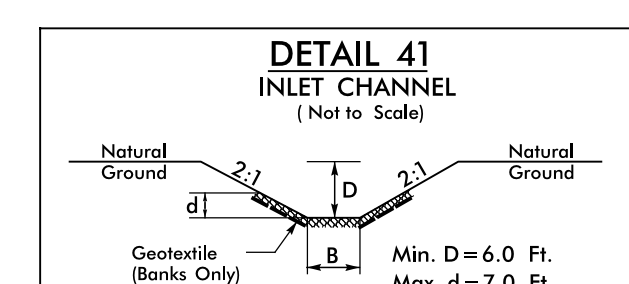
Type of Liner= Class B Rip-Rap (2" Thick)
FROM STA. 1259+98 TO STA. 1260+70 -L-



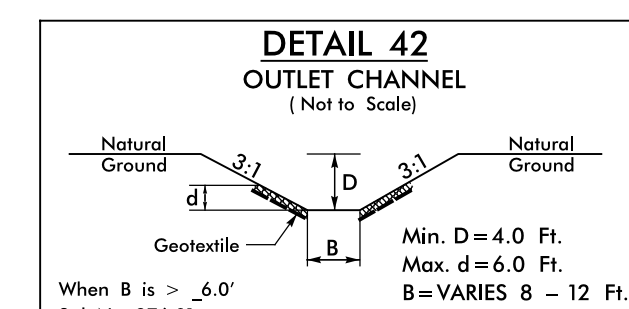
FROM STA. 12+92.94 TO STA. 13+43.18 -Y18RPB- LT



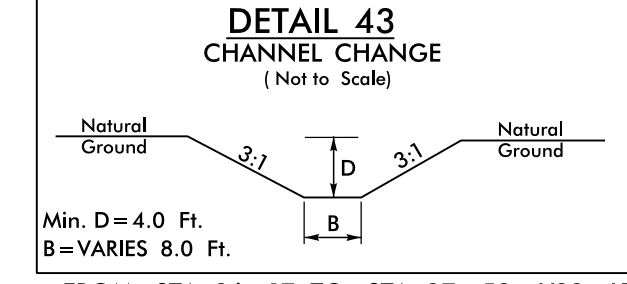
Type of Liner= Class B Rip-Rap
FROM STA. 13+43.18 TO STA. 14+05 -Y18RPB- LT



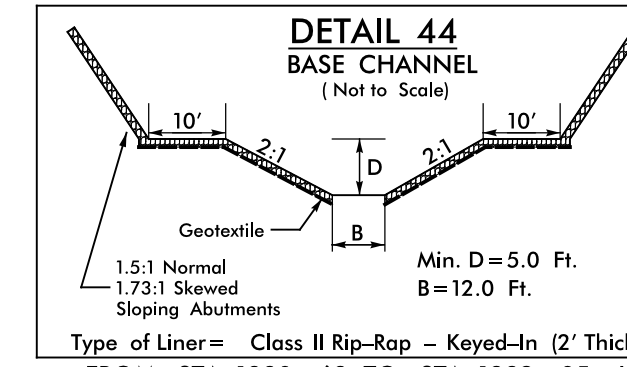
Type of Liner= Class II Rip-Rap - Keyed-In (2" Thick)
FROM STA. 35+67 TO STA. 35+79 -Y33- LT



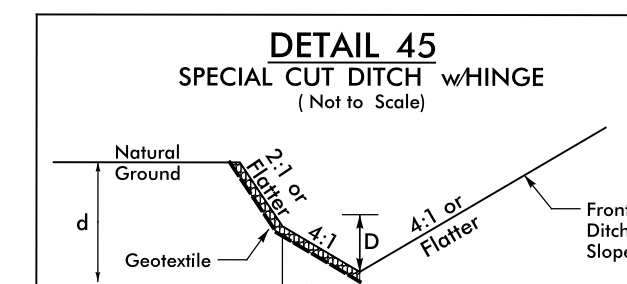
Type of Liner= Class I Rip-Rap - Keyed-In (2" Thick)
FROM STA. 36+03 TO STA. 36+17 -Y33- LT



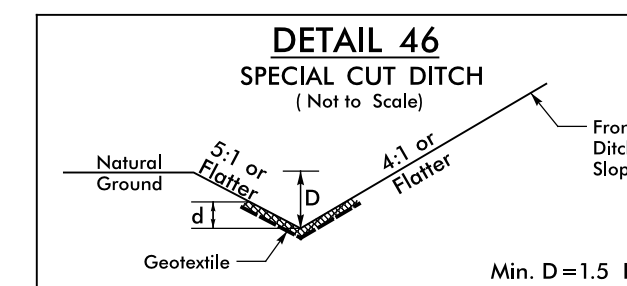
FROM STA. 36+17 TO STA. 37+58 -Y33- LT



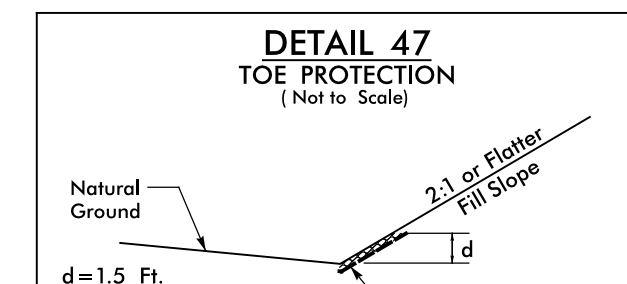
Type of Liner= Class II Rip-Rap - Keyed-In (2" Thick)
FROM STA. 1390+63 TO STA. 1392+05 -L-



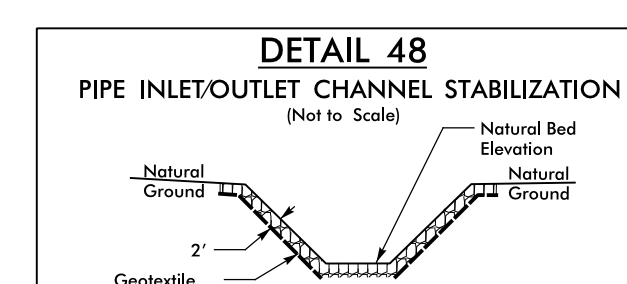
Type of Liner= Class B Rip-Rap
FROM STA. 1376+50 TO STA. 1378+00 -L- LT



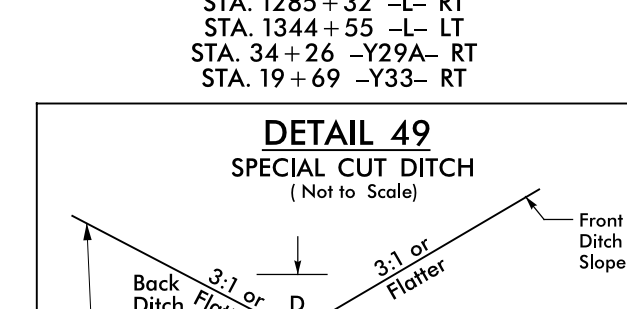
Type of Liner= Class B Rip-Rap
FROM STA. 24+43.50 TO STA. 33+50 -Y33- LT



Type of Liner= Class B Rip-Rap
FROM STA. 35+33 TO STA. 35+89 -Y33- RT



STA. 1285+32 -L- RT
STA. 1344+55 -L- LT
STA. 34+26 -Y29A- RT
STA. 19+69 -Y33- RT



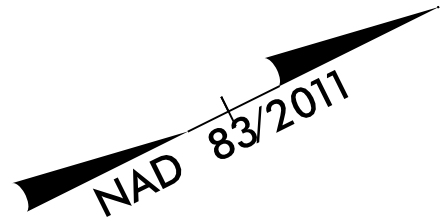
FROM STA. 21+75 TO STA. 23+46 -Y28- RT

5/14/99

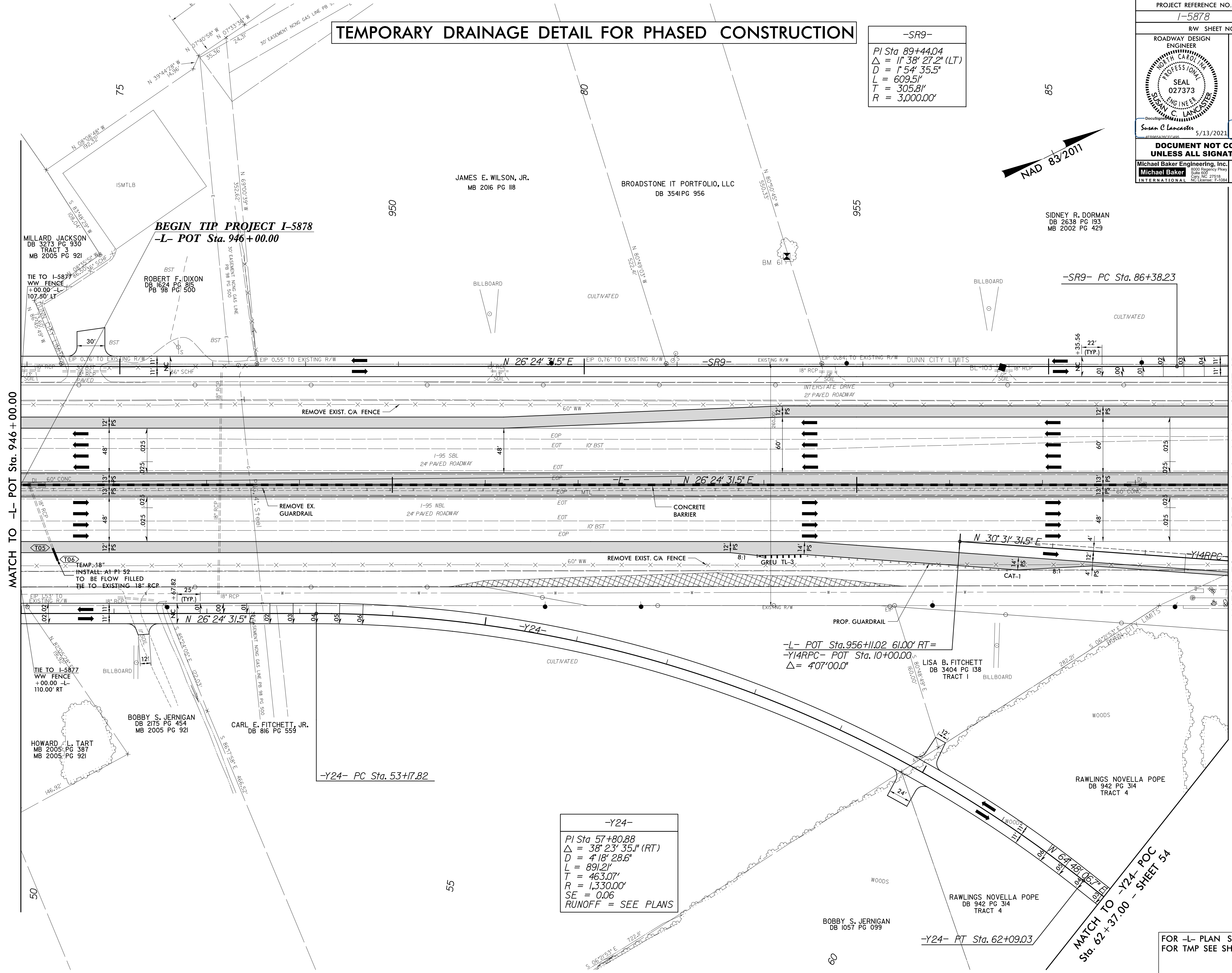
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TEMPORARY DRAINAGE DETAIL FOR PHASED CONSTRUCTION

-SR9-
PI Sta 89+44.04
 $\Delta = 1^\circ 38' 27.2''$ (LT)
 $D = 1^\circ 54' 35.5''$
 $L = 609.51'$
 $T = 305.81'$
 $R = 3,000.00'$



PROJECT REFERENCE NO. I-5878		SHEET NO. 2D-6
RW SHEET NO.		
ROADWAY DESIGN ENGINEER Susan C. Lancaster 5/13/2021	HYDRAULICS ENGINEER Joshua G. Dalton 5/13/2021	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		
Michael Baker Engineering, Inc. 1000 Regency Park Suite 600 Cary, NC 27518 NC License: F-1034		SUNGATE DESIGN GROUP, P.A. 601 ZIEGLER PARKWAY RALEIGH, NORTH CAROLINA 27605 NC CDA No. C-1890

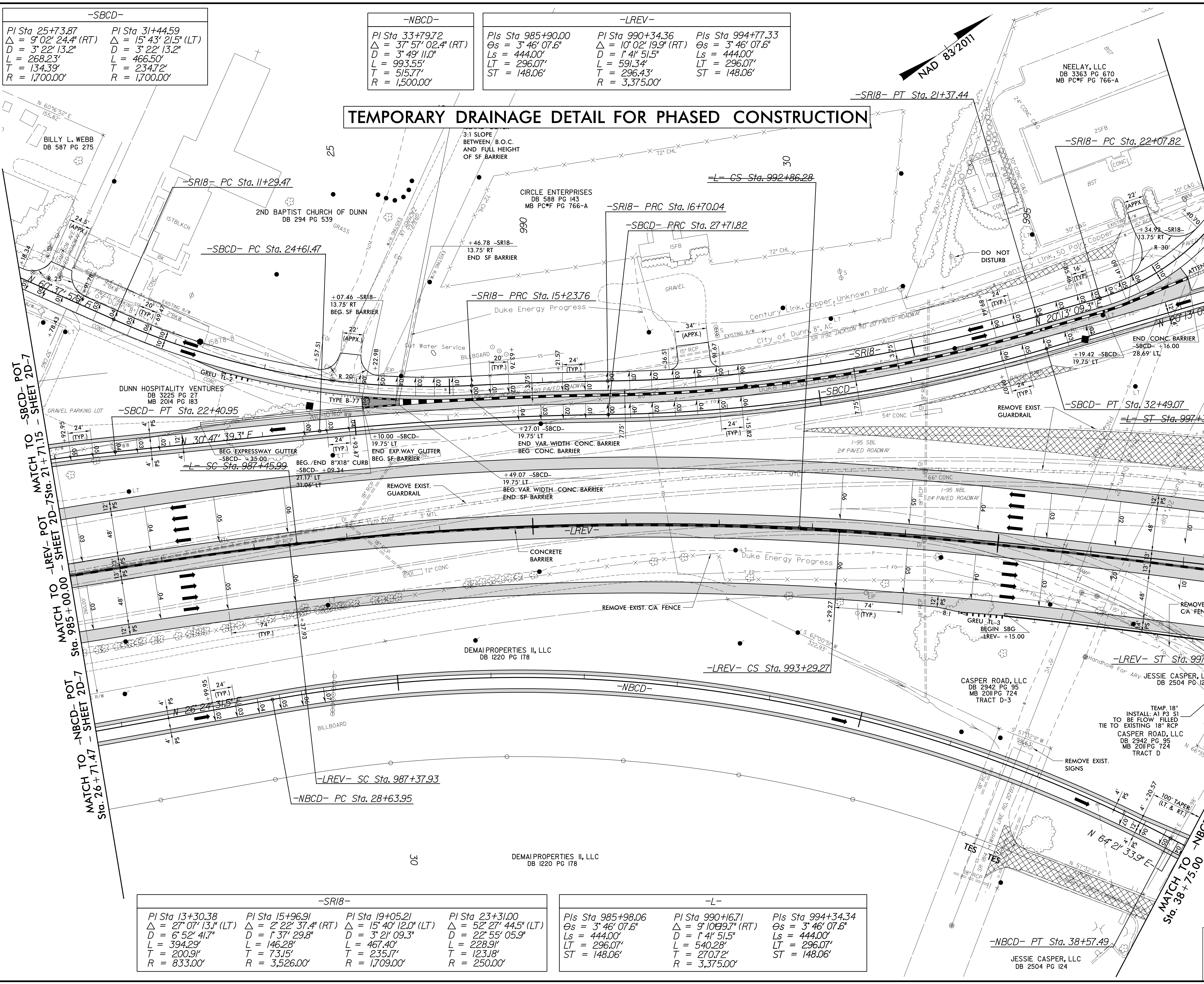


-Y24-
PI Sta 57+80.88
 $\Delta = 38^\circ 23' 35.1''$ (RT)
 $D = 4^\circ 18' 28.6''$
 $L = 891.21'$
 $T = 463.07'$
 $R = 1,330.00'$
 $SE = 0.06$
RUNOFF = SEE PLANS

FOR -L- PLAN SEE SHEET 16
FOR TMP SEE SHEET TMP-5A



PROJECT REFERENCE NO. 1-5878		SHEET NO. 2D-8	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		SEAL 027373 SUSAN C LANCASTER	
SUSAN C LANCASTER 5/13/2021		JOSHUA G DALTON 5/13/2021	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
Michael Baker Engineering, Inc. 1500 Regency Drive Suite 600 Charlotte, NC 27518 Phone: 704.366.1000 Fax: 704.366.1001 INTERNATIONAL NC License: F-1034		SUNGATE DESIGN GROUP, P.A. 200 JONES FARMWAY ROAD FALCON NORTH CAROLINA 27008 NC CDA No. C-0890	



-SBCD-

PI Sta 25+73.87	PI Sta 31+44.59
$\Delta = 9^{\circ}02'24.4''$ (RT)	$\Delta = 15^{\circ}43'21.5''$ (LT)
$D = 3^{\circ}22'13.2''$	$D = 3^{\circ}22'13.2''$
$L = 268.23'$	$L = 466.50'$
$T = 134.39'$	$T = 234.72'$
$R = 1,700.00'$	$R = 1,700.00'$

-NBCD-

PI Sta 33+79.72	
$\Delta = 37^{\circ}57'02.4''$ (RT)	
$D = 3^{\circ}49'11.0''$	
$L = 993.55'$	
$T = 515.77'$	
$R = 1,500.00'$	

-LREV-

PIs Sta 985+90.00	PI Sta 990+34.36	PIs Sta 994+77.33
$\Theta_s = 3^{\circ}46'07.6''$	$\Delta = 10^{\circ}02'19.9''$ (RT)	$\Theta_s = 3^{\circ}46'07.6''$
$L_s = 444.00'$	$D = 1^{\circ}41'51.5''$	$L_s = 444.00'$
$LT = 296.07'$	$L = 591.34'$	$LT = 296.07'$
$ST = 148.06'$	$T = 296.43'$	$ST = 148.06'$
	$R = 3,375.00'$	

-SR18-

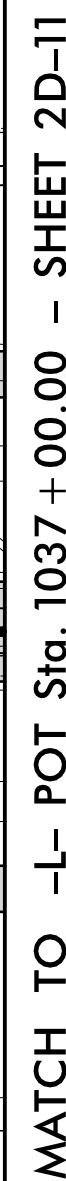
PI Sta 13+30.38	PI Sta 15+96.91	PI Sta 19+05.21	PI Sta 23+31.00
$\Delta = 27^{\circ}07'13.1''$ (LT)	$\Delta = 2^{\circ}22'37.4''$ (RT)	$\Delta = 15^{\circ}40'12.0''$ (LT)	$\Delta = 52^{\circ}27'44.5''$ (LT)
$D = 6^{\circ}52'41.7''$	$D = 1^{\circ}37'29.8''$	$D = 3^{\circ}21'09.3''$	$D = 22^{\circ}55'05.9''$
$L = 394.29'$	$L = 146.28'$	$L = 467.40'$	$L = 228.91'$
$T = 200.91'$	$T = 73.15'$	$T = 235.17'$	$T = 123.18'$
$R = 833.00'$	$R = 3,526.00'$	$R = 1,709.00'$	$R = 250.00'$

-L-

PIs Sta 985+98.06	PI Sta 990+16.71	PIs Sta 994+34.34
$\Theta_s = 3^{\circ}46'07.6''$	$\Delta = 9^{\circ}10'09.7''$ (RT)	$\Theta_s = 3^{\circ}46'07.6''$
$L_s = 444.00'$	$D = 1^{\circ}41'51.5''$	$L_s = 444.00'$
$LT = 296.07'$	$L = 540.28'$	$LT = 296.07'$
$ST = 148.06'$	$T = 270.72'$	$ST = 148.06'$
	$R = 3,375.00'$	

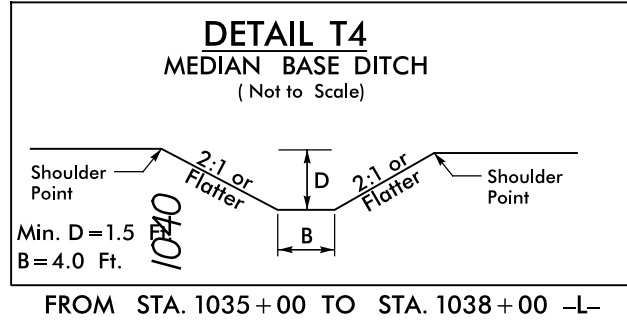
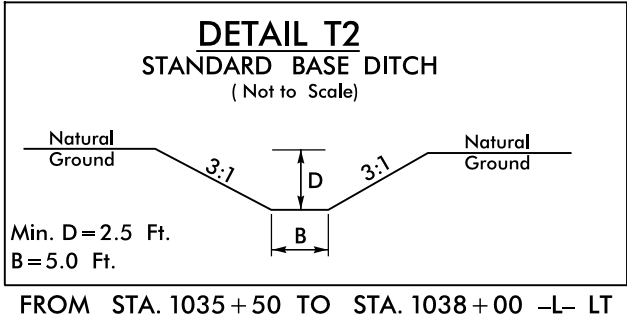
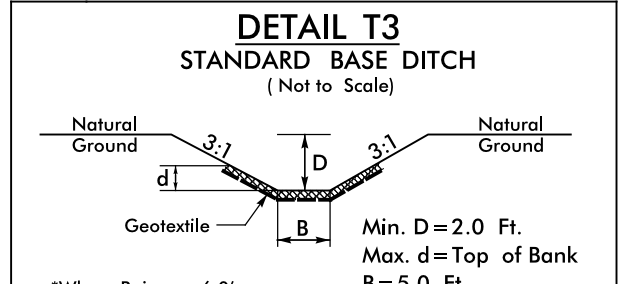
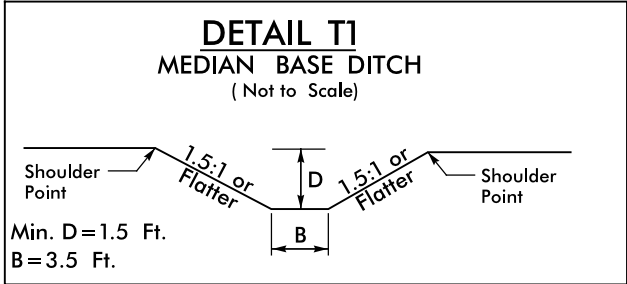
FOR -LREV- PLAN SEE SHEET 18
FOR -NBCD- PLAN SEE SHEET 18
FOR -SBCD- PLAN SEE SHEET 18
FOR -SR18- PLAN SEE SHEET 18
FOR TMP SEE SHEET TMP-12D

PROJECT REFERENCE NO.		SHEET NO.	
1-5878		2D-10	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
Docusign <i>Susan C. Lancaster</i> 5/13/2024 AERB62A702CE436		Docusign <i>Joshua G. Dalton</i> 5/13/2024 1059808CD4F88C6C	
FINAL NOTED FOR CONSTRUCTION UNLESS ALL SIGNATURES COMPLETED			
Michael Baker Engineering, Inc. 3000 Regency Plaza Suite 200 Cincinnati, OH 45245-1004 TEL 513.752.1500 INTERNATIONAL		SUNGATE DESIGN GROUP P.A. 10000 SUNGATE ROAD SUITE 200 SAN JOSE, CA C-08950	



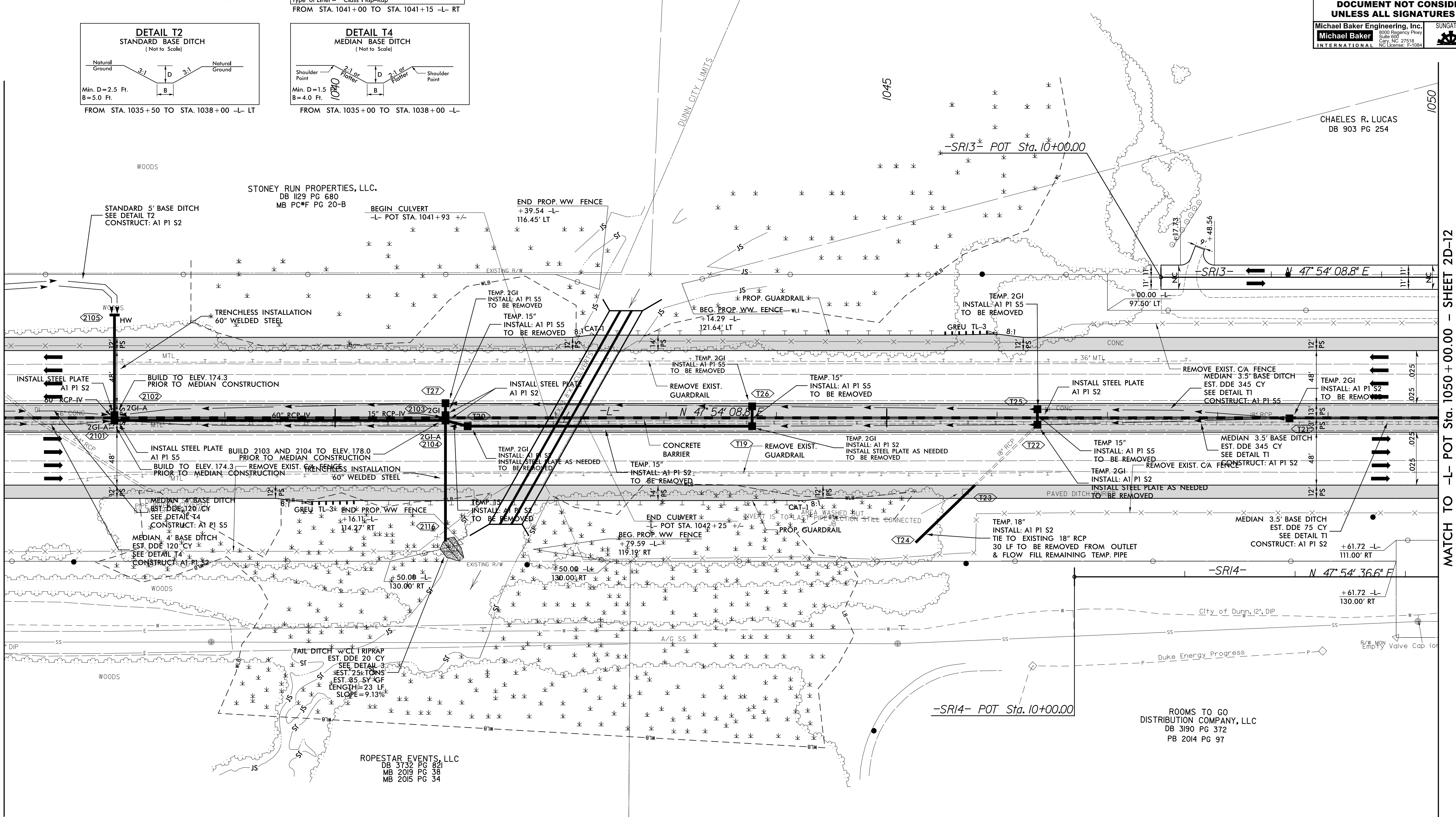
FOR -L- PLAN SEE SHEET 20
FOR -SR11- PLAN SEE SHEET 20
FOR TMP SEE SHEET TMP-5G 5H, 9B 9C,

TEMPORARY DRAINAGE DETAIL FOR PHASED CONSTRUCTION



MATCH TO -L- POT Sta. 1037+00.00 - SHEET 2D-10

MATCH TO -L- POT Sta. 1050+00.00 - SHEET 2D-12

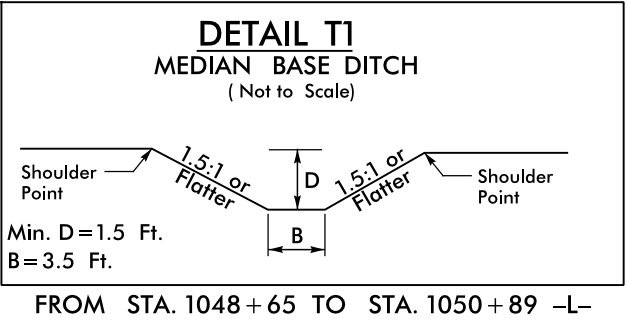
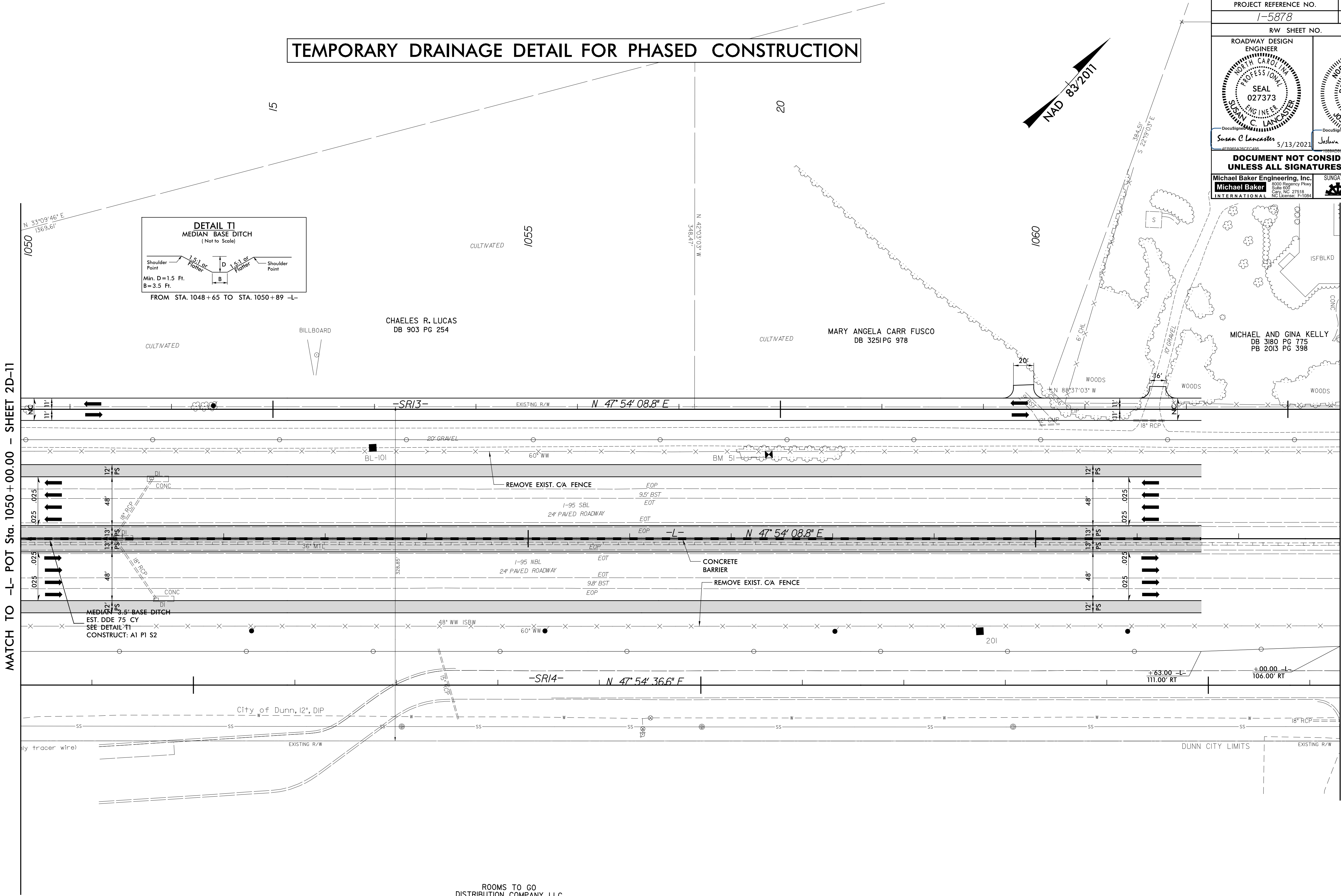


5/14/2021

REVISIONS

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TEMPORARY DRAINAGE DETAIL FOR PHASED CONSTRUCTION



PROJECT REFERENCE NO. 1-5878		SHEET NO. 2D-12
R/W SHEET NO.		
ROADWAY DESIGN ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 027373 SUSAN C. LANCASTER 5/13/2021	HYDRAULICS ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 26971 JOSHUA G. DILTON 5/13/2021	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		
Michael Baker Engineering, Inc. 1500 Regency Park Suite 600 Cary, NC 27518 NC License: F-1034		SUNGATE DESIGN GROUP, P.A. 100 JONES FARMER ROAD RALEIGH, NORTH CAROLINA 27605 NC COA No. C-0890

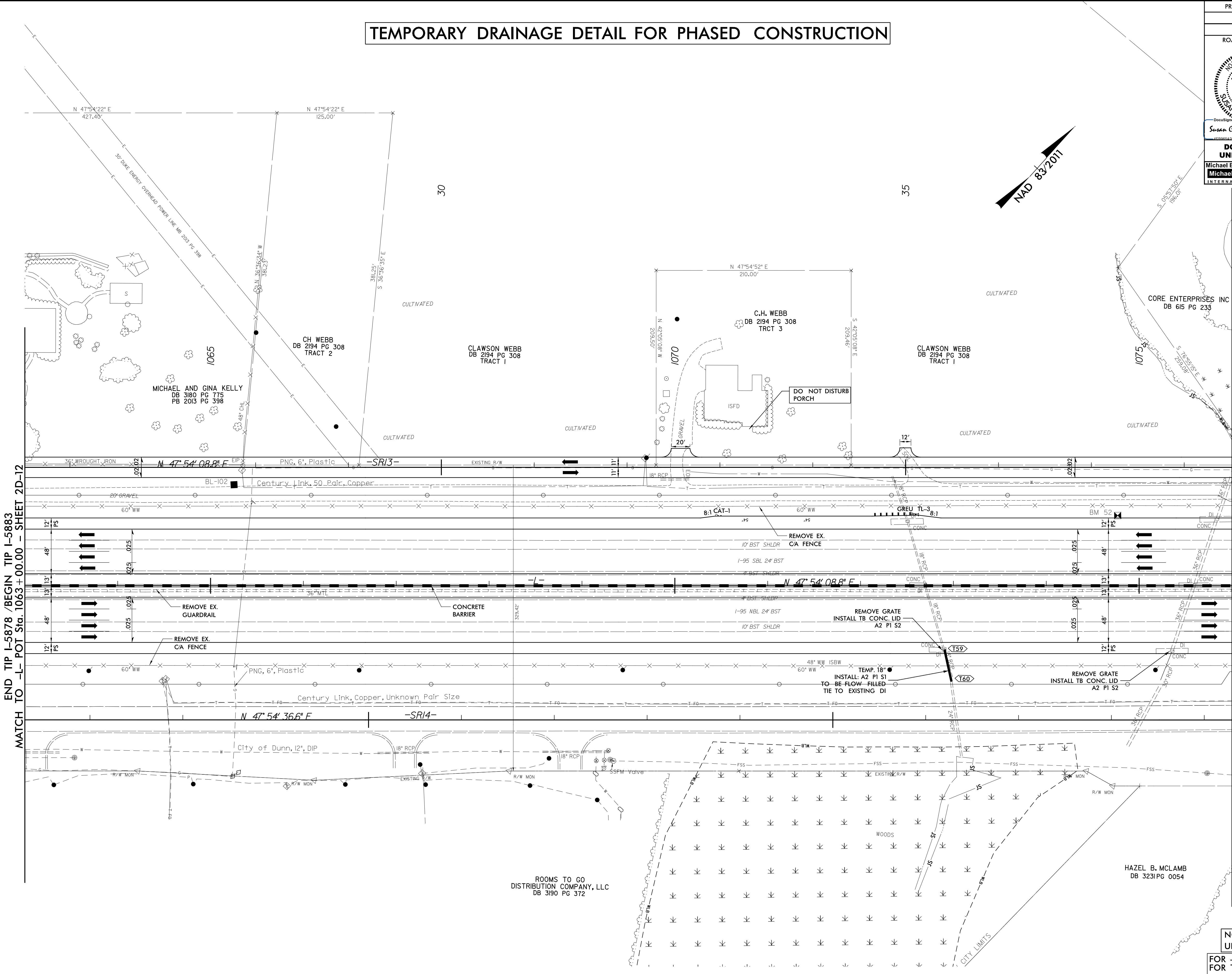
ROOMS TO GO
DISTRIBUTION COMPANY, LLC
DB 3190 PG 372
PB 2014 PG 97

8/17/99

REVISIONS

11-MAR-2021 09:11
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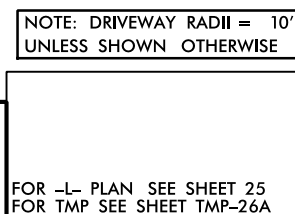
TEMPORARY DRAINAGE DETAIL FOR PHASED CONSTRUCTION



PROJECT REFERENCE NO. 1-5883		SHEET NO. 2D-13	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		SEAL 2697 I	
Susan C. Lancaster 5/13/2021		Joshua G. Dalton 5/13/2021	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
Michael Baker Engineering, Inc. 6000 Regency Park Suite 600 Charlotte, NC 28218 Tel: 704.366.1000 Fax: 704.366.1001 www.mbakeng.com		SUNGATE DESIGN GROUP, P.A. 601 JONES FRANKLIN ROAD NORFOLK, NORTH CAROLINA 23502 Tel: 757.640.1000 Fax: 757.640.1001 www.sungatedesign.com	

NOTE: DRIVEWAY RADII = 10'
UNLESS SHOWN OTHERWISE

FOR -L- PLAN SEE SHEET 23
FOR TMP SEE SHEET TMP-17B AND TMP-18A



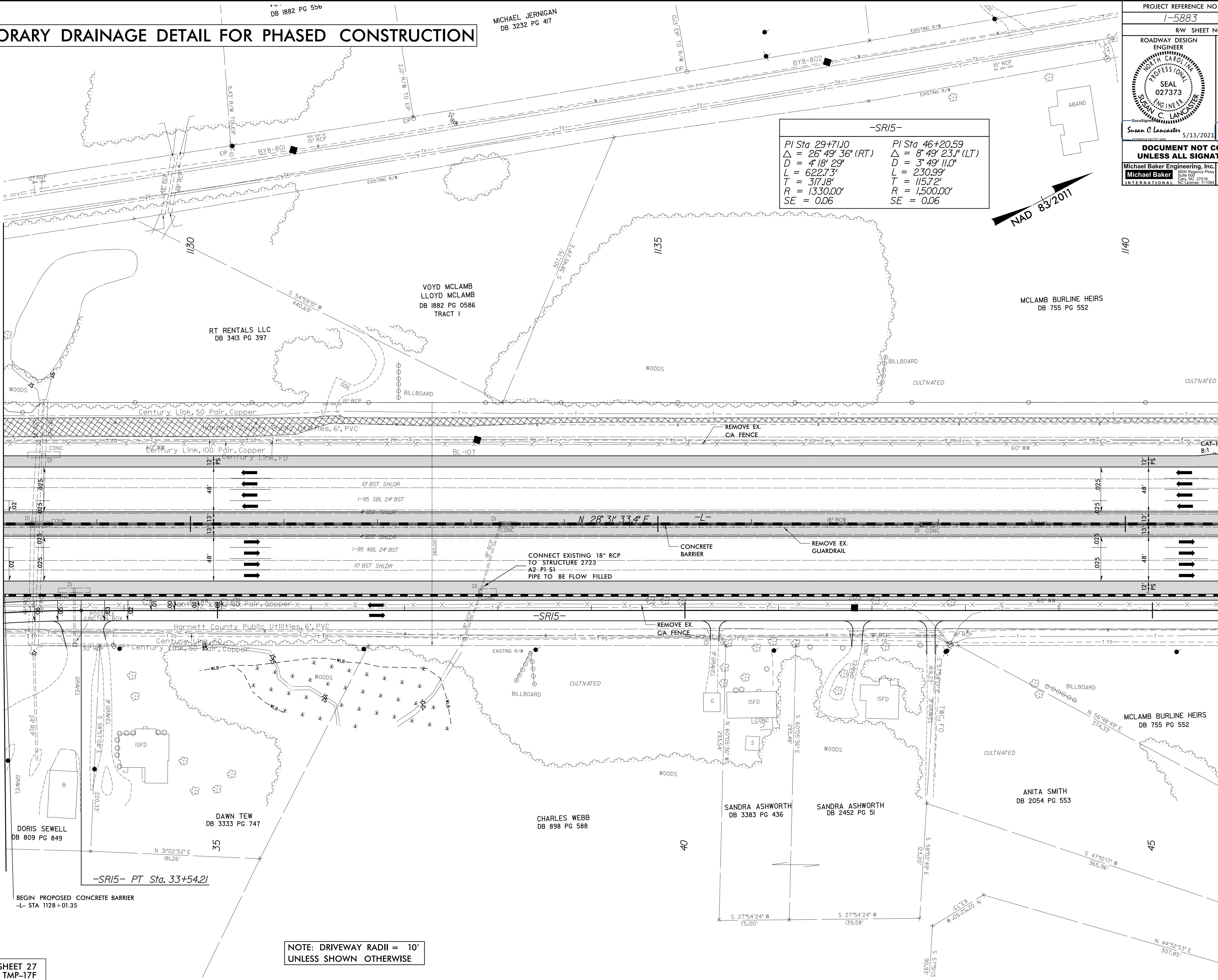
8/17/99

REVISIONS

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TEMPORARY DRAINAGE DETAIL FOR PHASED CONSTRUCTION

MATCH TO -L- POT Sta. 1128 + 00.00



NOTE: DRIVEWAY RADII = 10'
UNLESS SHOWN OTHERWISE

FOR -L- PLAN SEE SHEET 27
FOR TMP SEE SHEET TMP-17F

PROJECT REFERENCE NO. 1-5883		SHEET NO. 2D-16	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER SUNGATE DESIGN GROUP, P.A. SEAL 027373 SUSAN C. LANCASTER 5/13/2021		HYDRAULICS ENGINEER SUNGATE DESIGN GROUP, P.A. SEAL 26971 JOSHUA G. DALTON 5/13/2021	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
Michael Baker Engineering, Inc. Michael Baker International		SUNGATE DESIGN GROUP, P.A. SUNGATE DESIGN GROUP, P.A.	

MATCH TO -L- POT Sta. 1141 + 00.00 - SHEET 2D-17

TEMPORARY DRAINAGE DETAIL FOR PHASED CONSTRUCTION

PROJECT REFERENCE NO.		SHEET NO.	
I-5883		2D-17	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
			
DocuSign <i>Susan C. Lancaster</i> 5/13/2021		DocuSign <i>Joshua G. Dalton</i> 5/13/2021	
eSIGNED VERIFIED DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
Michael Baker Engineering, Inc. 8000 Regency Pkwy Suite 200 NC 27618 Phone: 919-487-1184 INTERNATIONAL		SUNGATE DESIGN GROUP P.A.  901 OLDS FARMER ROAD RALEIGH, NORTH CAROLINA 27604 NC 27604-1600	

NOTE: DRIVEWAY RADII = 10'
UNLESS SHOWN OTHERWISE

FOR -L- PLAN SEE SHEET 28
FOR TMP SEE SHEET TMP-18G

8/17/99

REVISIONS

11-MAR-2021 09:12
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\$\$\$\$\$USER\$NAME\$\$\$\$\$

FOR -L- PLAN SEE SHEET 29
FOR TMP SEE SHEET TMP-18H

NOTE: DRIVEWAY RADII = 10'
UNLESS SHOWN OTHERWISE

JAMES THOMAS TART
& KATHY TART
DB 2740 PG 198
PB 2001PG 1398

GARY & MINNIE WEBB
DB 2396 PG 79

THOMAS TART
DB 931PG 393

THOMAS TURNAGE
DB 3678 PG 0321

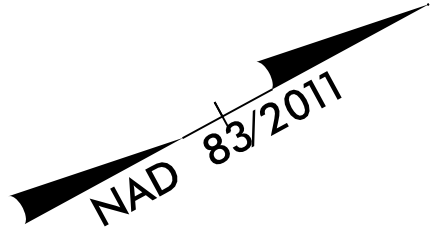
LLOYD & MARGIE TURNAGE
DB 1028 PG 580

LLOYD & MARGIE
TURNAGE
DB 699 PG 491

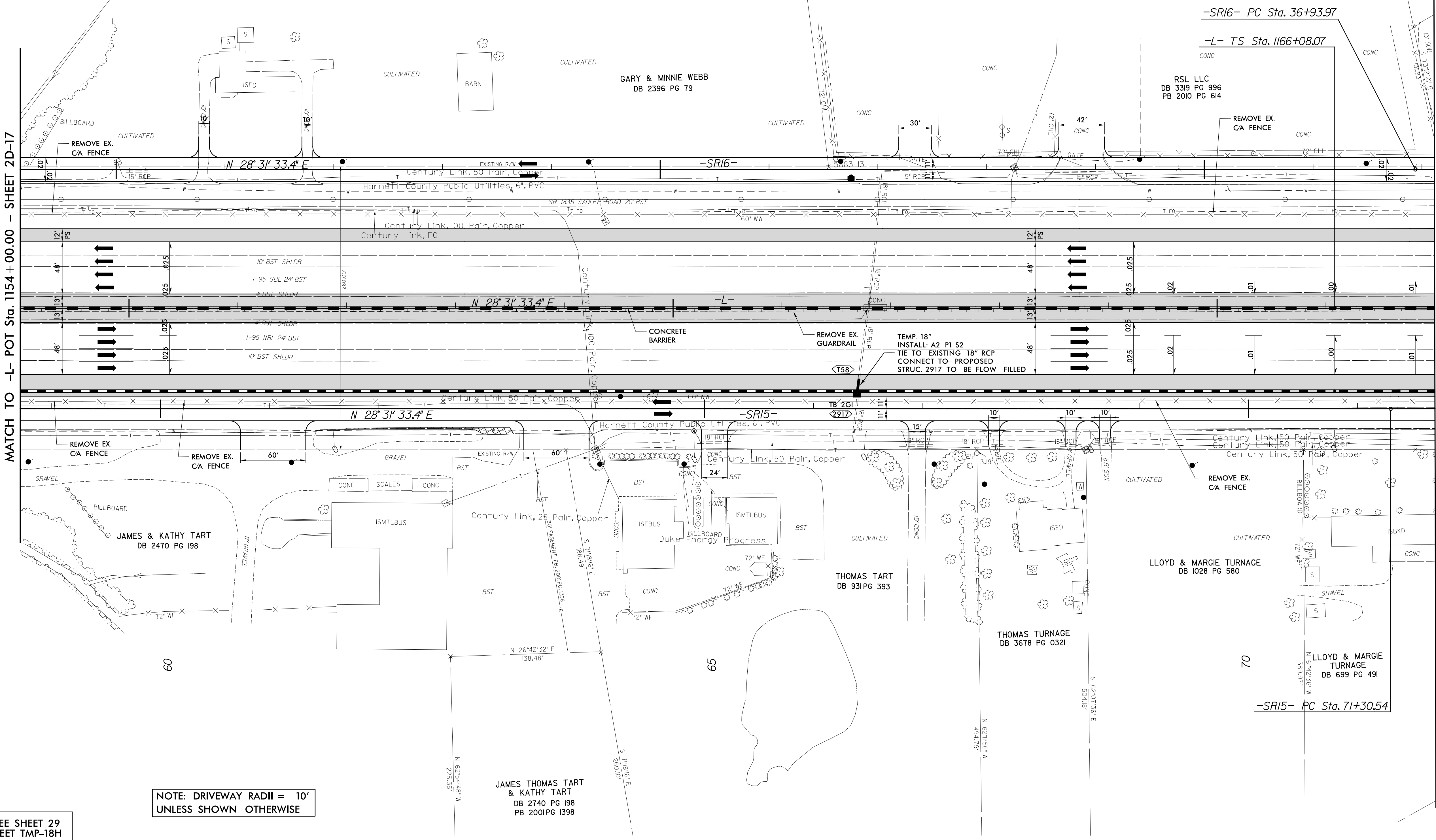
TEMPORARY DRAINAGE DETAIL FOR PHASED CONSTRUCTION

-SR16-
PI Sta 47+03.08
 $\Delta = 10^{\circ} 00' 29''$ (LT)
D = 0' 29' 50"
L = 2013.09'
T = 1009.11'
R = 11525.00'
SE = 0.06

-L-
Pls Sta 1167+06.74
 $\Theta s = 0^{\circ} 21' 50''$
Ls = 148.00'
LT = 98.67'
ST = 49.33'



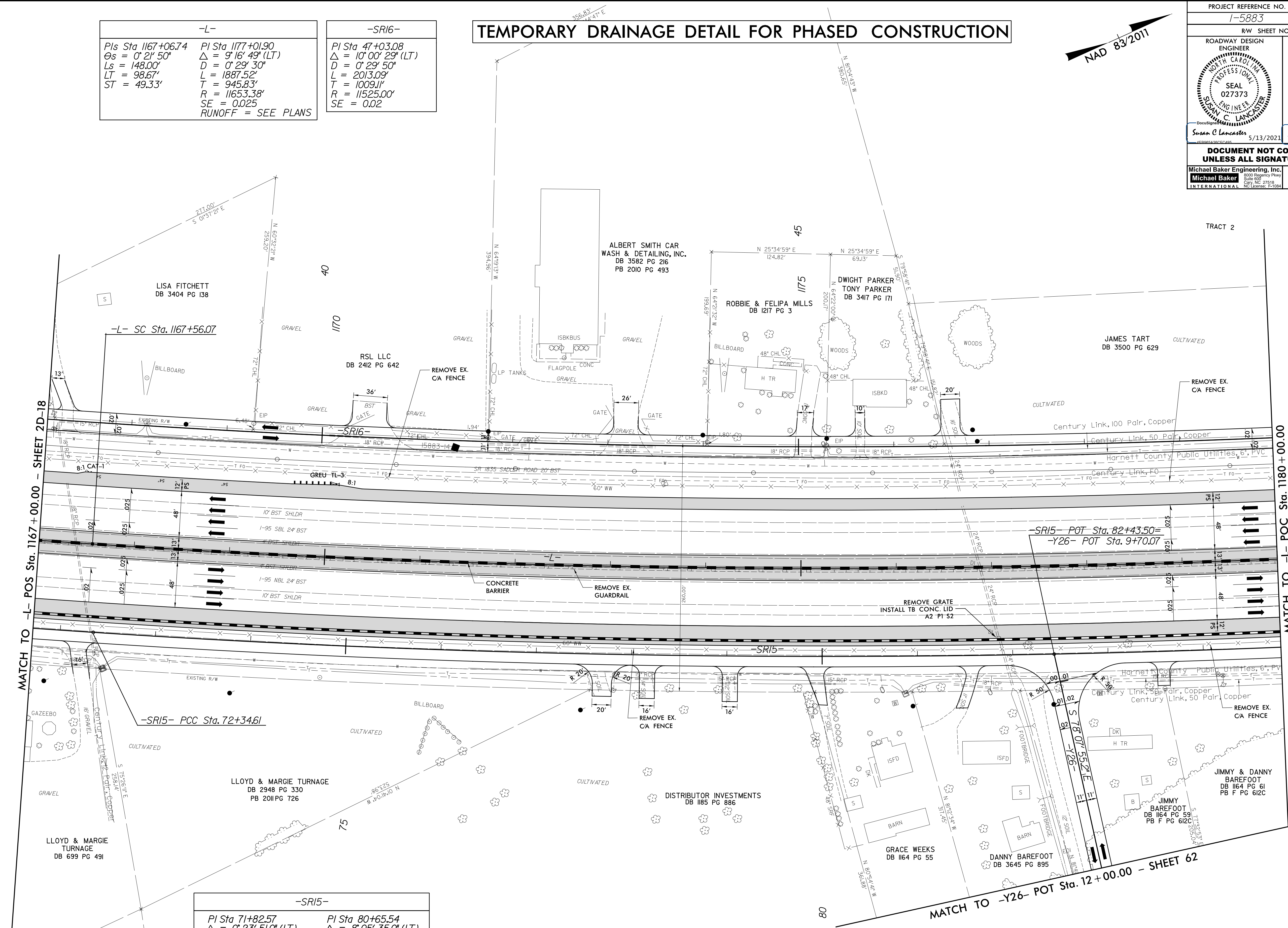
PROJECT REFERENCE NO. 1-5883		SHEET NO. 2D-18
RW SHEET NO.		
ROADWAY DESIGN ENGINEER Susan C. Lancaster 5/13/2021	HYDRAULICS ENGINEER Joshua G. Dalton 5/13/2021	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		
Michael Baker Engineering, Inc. 8000 Regency Place Suite 200 Charlotte, NC 28218 NC License: P-1084	SUNGATE DESIGN GROUP, P.A. 605 JONES FRANKLIN ROAD NORFOLK, NORTH CAROLINA 28651 NC COA No. C-8890	



8/17/99

REVISIONS

11-MAR-2021 09:12
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SUNGATE\11-MAR-2021\11-MAR-2021.dgn



-L-	
Pls Sta 1167+06.74	Pl Sta 1177+01.90
$\Delta = 0^{\circ} 21' 50''$	$\Delta = 9^{\circ} 16' 49''$ (LT)
$L_s = 148.00'$	$D = 0^{\circ} 29' 30''$
$LT = 98.67'$	$L = 1887.52'$
$ST = 49.33'$	$T = 945.83'$
	$R = 11653.38'$
	$SE = 0.025$
	RUNOFF = SEE PLANS

-SR16-	
Pl Sta 47+03.08	Pl Sta 47+03.08
$\Delta = 10^{\circ} 00' 29''$ (LT)	$\Delta = 10^{\circ} 00' 29''$ (LT)
$D = 0^{\circ} 29' 50''$	$D = 0^{\circ} 29' 50''$
$L = 2013.09'$	$L = 2013.09'$
$T = 1009.11'$	$T = 1009.11'$
$R = 11525.00'$	$R = 11525.00'$
$SE = 0.02$	$SE = 0.02$

-SR15-	
Pl Sta 71+82.57	Pl Sta 80+65.54
$\Delta = 0^{\circ} 23' 51.0''$ (LT)	$\Delta = 8^{\circ} 05' 35.0''$ (LT)
$D = 0^{\circ} 22' 55.1''$	$D = 0^{\circ} 29' 16.1''$
$L = 104.07'$	$L = 1659.11'$
$T = 52.03'$	$T = 830.94'$
$R = 15,000.00'$	$R = 11,745.88'$
$SE = NC$	$SE = NC$

TEMPORARY DRAINAGE DETAIL FOR PHASED CONSTRUCTION



PROJECT REFERENCE NO. 1-5883		SHEET NO. 2D-19	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		SEAL 027373	
SUSAN C. LANCASTER		JOSHUA G. DALTON	
5/13/2021		5/13/2021	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
Michael Baker Engineering, Inc. 1000 Regency Park Suite 200 Durham, NC 27618 Tel: 919.286.1000 Fax: 919.286.1001 www.mbakeng.com		SUNGATE DESIGN GROUP, P.A. 605 JONES FRANKLIN ROAD RALEIGH, NORTH CAROLINA 27611 Tel: 919.286.1000 Fax: 919.286.1001 www.sungatepa.com	

NOTE: DRIVEWAY RADII = 10'
UNLESS SHOWN OTHERWISE

FOR -L- PLAN SEE SHEET 30
FOR TMP SEE SHEET TMP-181

	REVISIONS
01-17-19	

-YTPRP-					
Pis Sta 1146602	Pi Sta 1440243	Pis Sta 1677634	Pis Sta 2518675	Pi Sta 2744354	
68 = 259.30	Δ L = 17.03 (LT)	68 = 17.03	68 = 156.00	Δ L = 17.03 (RT)	
LT = 169.00	L = 0.953	LT = 83.00	LT = 104.34	L = 10.49	
LT = 126.02	L = 24.93	LT = 126.02	LT = 104.34	L = 20.93	
ST = 63.02	L = 23.47	ST = 63.02	ST = 52.31	L = 10.53	
	R = 1820.00			R = 340.00	
	SE = 0.07			SE = 0.08	
	RUNOFF = SEE PLANS			RUNOFF = SEE PLANS	

-YITRPA-		
Pls Sta 14+57.85	Pl Sta 17+66.89	Pls Sta 19+73.07
Gs = 5' 09" 2 1/2"	L = 17' 43" 29" (RT)	Gs = 5' 09" 2 1/2"
Lt = 216.00'	D = 4' 46" 29"	Lt = 216.00'
LS = 144.06'	S = 371.23'	LS = 144.06'
ST = 72.06'	T = 187.11'	ST = 72.06'
	R = 1200.00'	
	SE = 0.08	
	RUNOFF = SEE PLANS	

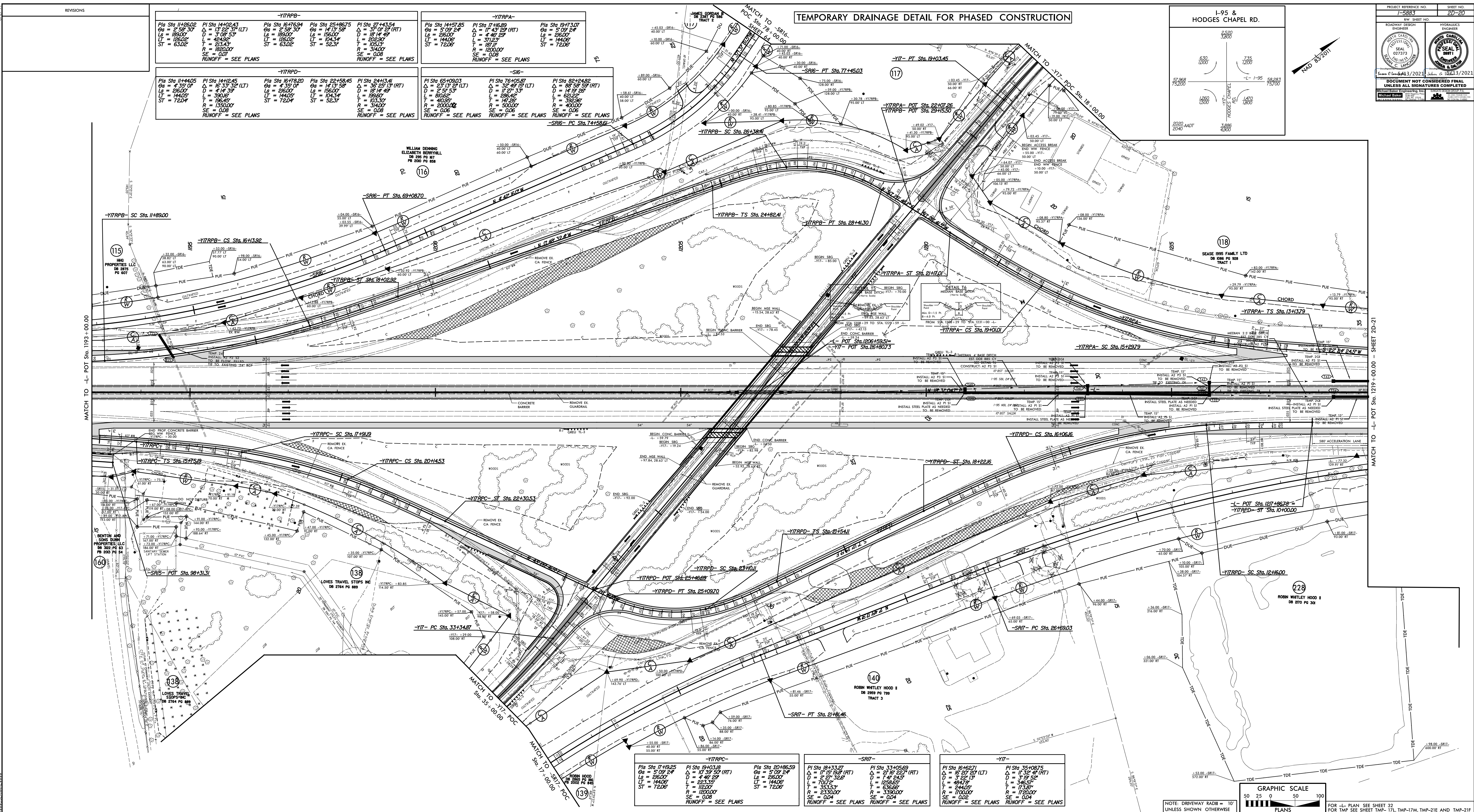
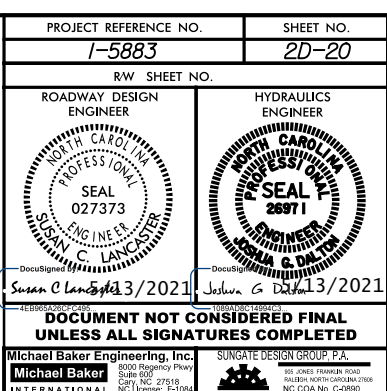
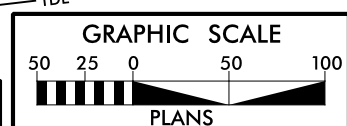
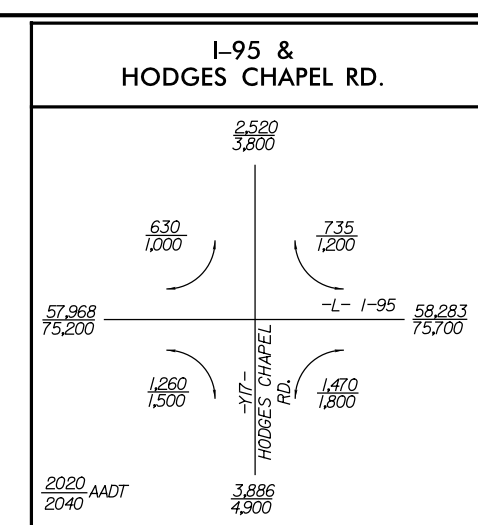
-YTRPD-							
Pis Sta 1144405	Pi Sta 1444245	Pis Sta 1647820	Pis Sta 2245845	Pi Sta 2444341			
Ls = 35.00'	Ls = 35.00'	Ls = 35.00'	Ls = 161.35'	Ls = 322.00' (RT)			
Ld = 2650.0'	D = 414.39'	Ld = 2650.0'	Ld = 1560.0'	D = 1814.49'			
Lt = 14405.0'	L = 39016.8'	Lt = 14405.0'	Lt = 1043.4'	L = 19960.0'			
ST = 7204.4'	T = 38645.9'	ST = 7204.4'	ST = 523.1'	T = 10333.0'			
	R = 1500.00'			R = 322.00'			
	SE = 0.08			SE = 0.08			
	RUNOFF = SEE PLANS			RUNOFF = SEE PLANS			

-S16-		
P1 Sta 65+09.03	P1 Sta 76+05.87	P1 Sta 82+24.82
$\Delta = 23^{\circ}13' 20''$ (LT)	$\Delta = 32^{\circ}49' 15''$ (LT)	$\Delta = 88^{\circ}58' 59''$ (RT)
$D = 2^{\circ}51' 53''$	$D = 11^{\circ}27' 33''$	$D = 14^{\circ}19' 26''$
$L = 810.62'$	$L = 286.42'$	$L = 621.22'$
$T = 410.95'$	$T = 147.26'$	$T = 392.96'$
$R = 2000.00'$	$R = 500.00'$	$R = 400.00'$
$SE = 0.06$	$SE = 0.06$	$SE = 0.06$
RUNOFF = SEE PLANS	RUNOFF = SEE PLANS	RUNOFF = SEE PLANS

Pls Sta 17+9.25 Os = 5' 09" 2.4" Ls = 216.00' Lr = 144.00' ST = 72.06'	Pl Sta 19+03.18 Δ = 10' 39" 50" (RT) D = 4' 46" 29" L = 212.35' T = 112.00' R = 1200.00' SE = 0.08 RUNOFF = SEE PLANS	Pls Sta 20+86.59 Os = 5' 09" 2.4" Ls = 216.00' Lr = 144.00' ST = 72.06'
--	--	---

Δ Sta 18+33.27 $\Delta = 17^{\circ}15' 19.8" (RT)$ $D = 2^{\circ}27' 32.6"$ $L = 701.72'$ $T = 353.53'$ $R = 2330.00'$ $SE = 0.04$ RUNOFF = SEE PLANS	Δ Sta 33+05.69 $\Delta = 21^{\circ}16' 22.7" (RT)$ $D = 1^{\circ}44' 24.5"$ $L = 1258.65'$ $T = 636.66'$ $R = 3390.00'$ $SE = 0.04$ RUNOFF = SEE PLANS
---	--

Pi Sta 16+62.71	Pi Sta 35+08.75
$\Delta = 16^{\circ} 20' 20''$ (LT)	$\Delta = 11^{\circ} 32' 40''$ (RT)
D = 3' 22" 13"	D = 3' 19" 52"
L = 484.78'	L = 346.57'
R = 244.05'	R = 173.87'
R = 1700.00'	R = 1720.00'
SE = 0.02	SE = 0.04
RUNOFF = SEE PLANS	RUNOFF = SEE PLANS



NOTE: DRIVEWAY RADII = 10
UNLESS SHOWN OTHERWISE

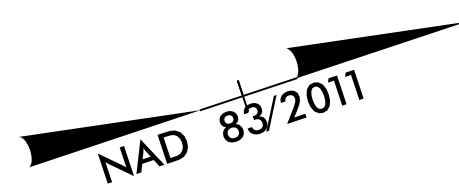
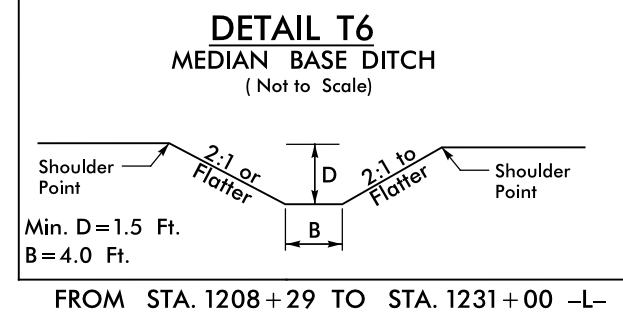
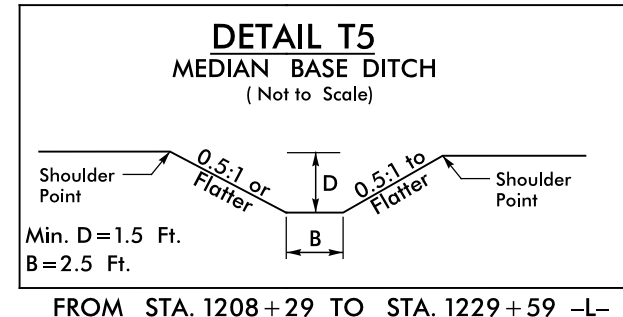
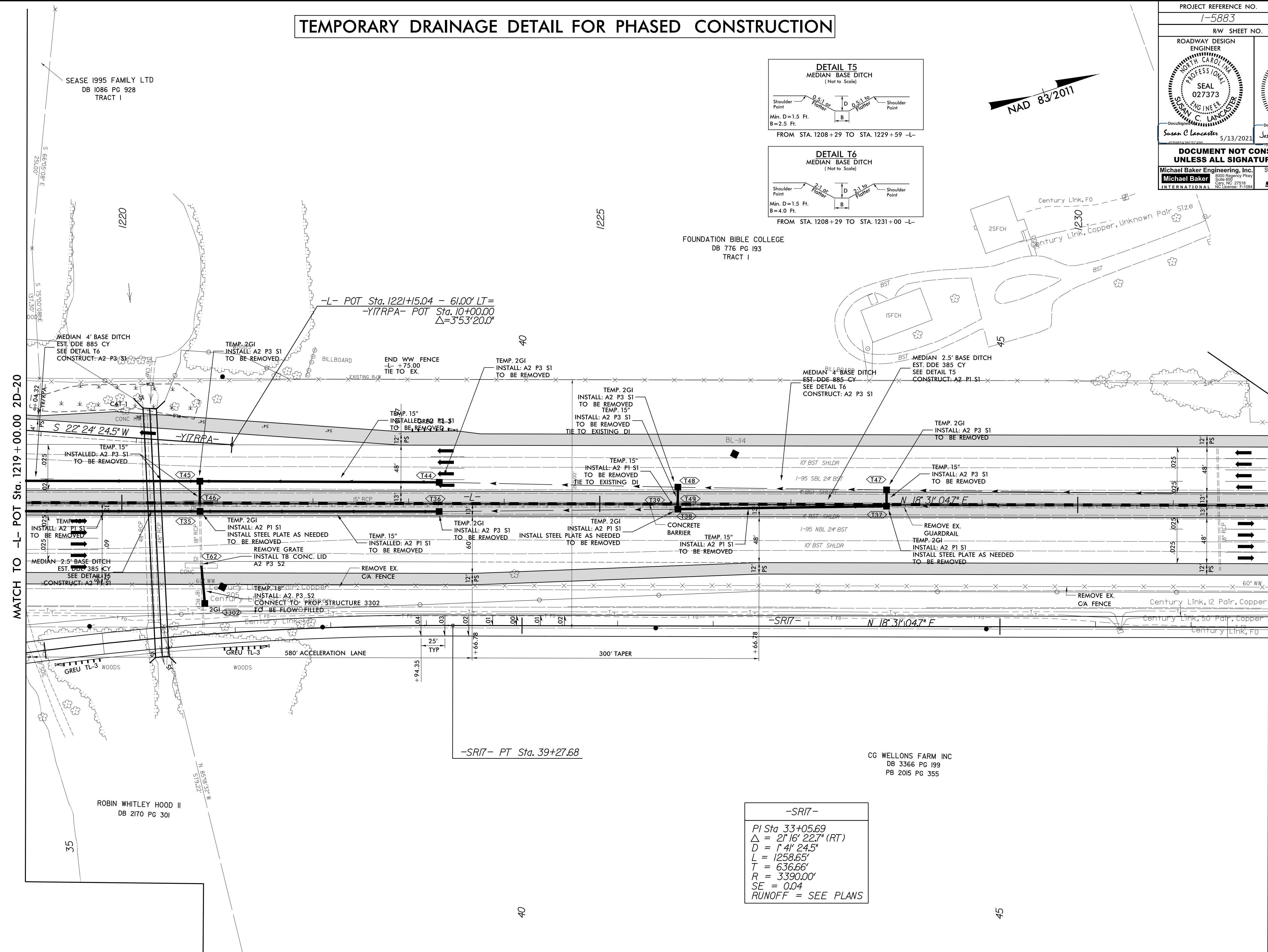
FOR -L- PLAN SEE SHEET 32
FOR TMP SEE SHEET TMP- 17L, TMP-17M, TMP-21E AND TMP-21F

8/17/99

REVISIONS

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\$\$\$\$\$USERNAME\$\$\$\$\$

TEMPORARY DRAINAGE DETAIL FOR PHASED CONSTRUCTION



PROJECT REFERENCE NO. 1-5883		SHEET NO. 2D-21	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER Susan C. Lancaster 5/13/2021		HYDRAULICS ENGINEER Joshua G. Dalton 5/13/2021	
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Michael Baker Engineering, Inc. 6000 Regency Place Suite 200 Charlotte, NC 28218 Tel: 704.366.1999 Fax: 704.366.1998 www.mbakeng.com NC License: P-1084		SUNGATE DESIGN GROUP, P.A. 601 JONES FRANKLIN ROAD RALEIGH, NORTH CAROLINA 27611 Tel: 919.876.1000 Fax: 919.876.1001 www.sungatedesign.com NC License: P-1084	

-SR17-
PI Sta. 33+05.69
 $\Delta = 21' 16" 22.7" (RT)$
D = 1' 4' 24.5"
L = 1258.65'
T = 636.66'
R = 3390.00'
SE = 0.04
RUNOFF = SEE PLANS

NOTE: DRIVEWAY RADII = 10'
UNLESS SHOWN OTHERWISE

FOR -L- PLAN SEE SHEET 33
FOR TMP SEE SHEETS TMP-17M, TMP-21F, TMP-21G AND TMP-22A

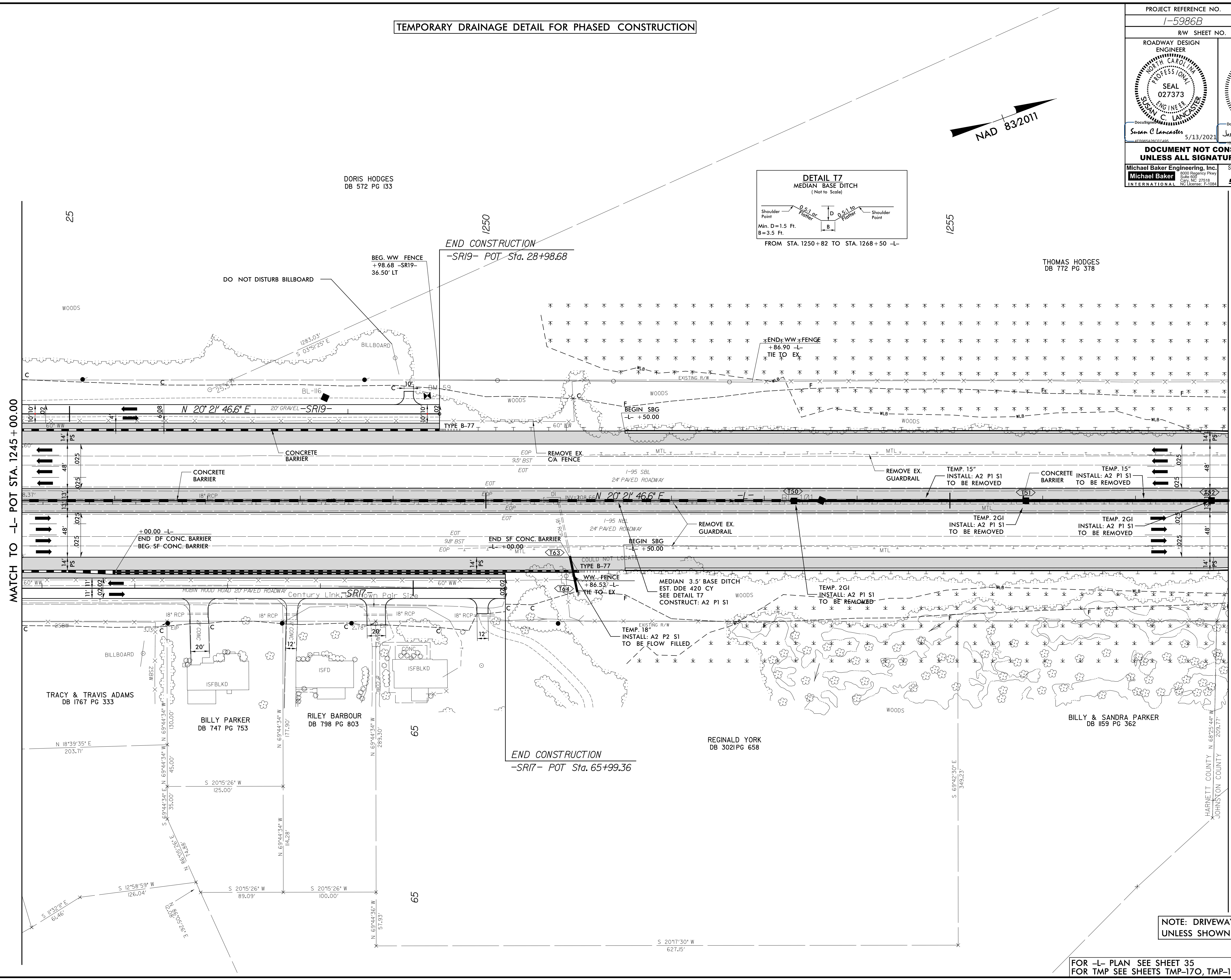
5/14/99

11-MAR-2021 09:12
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REVISIONS

TEMPORARY DRAINAGE DETAIL FOR PHASED CONSTRUCTION

PROJECT REFERENCE NO. 1-5986B		SHEET NO. 2D-22
R/W SHEET NO.		
ROADWAY DESIGN ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 027373 SUSAN C. LANCASTER	HYDRAULICS ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 26971 JOSHUA G. DALTON	
Susan C. Lancaster 5/13/2021	Joshua G. Dalton 5/13/2021	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		
Michael Baker Engineering, Inc. 1500 Regency Park Suite 600 Cary, NC 27518 NC License: F-1034	SUNGATE DESIGN GROUP, P.A. 100 JONES FARM RD RALEIGH, NORTH CAROLINA 27605 NC COA No. C-0890	



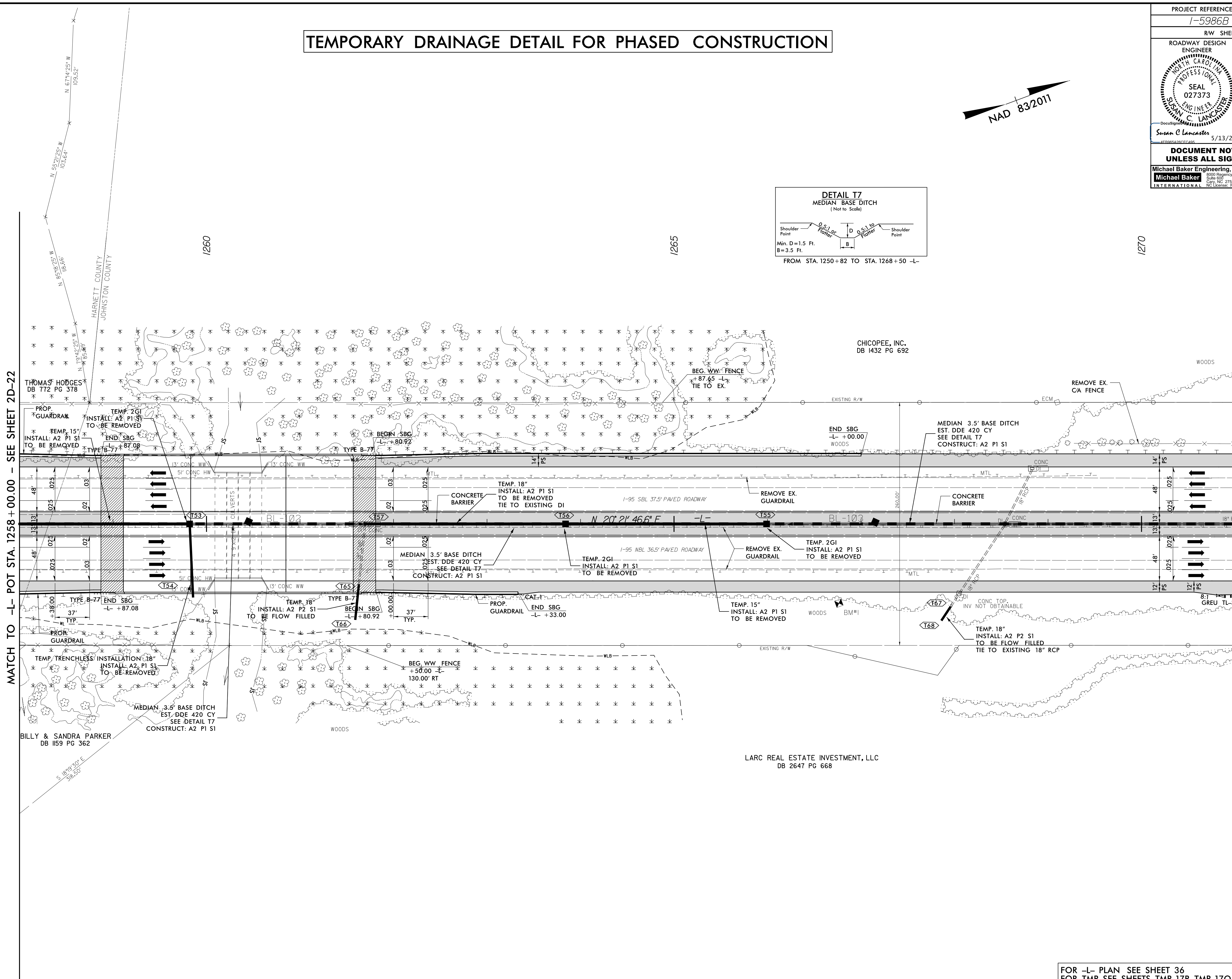
MATCH TO -L- POT STA. 1258 + 00.00 - SEE SHEET 2D-23

NOTE: DRIVEWAY RADII = 10'
UNLESS SHOWN OTHERWISE

FOR -L- PLAN SEE SHEET 35
FOR TMP SEE SHEETS TMP-170, TMP-17P AND TMP-19D

NAD 83/2011

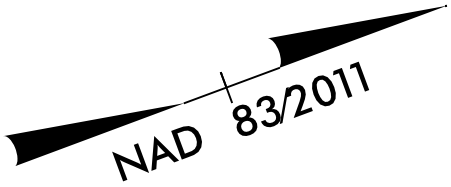
FOR -L- PLAN SEE SHEET 36
FOR TMP SEE SHEETS TMP-17P, TMP-17Q, TMP-19E AND TMP-19F



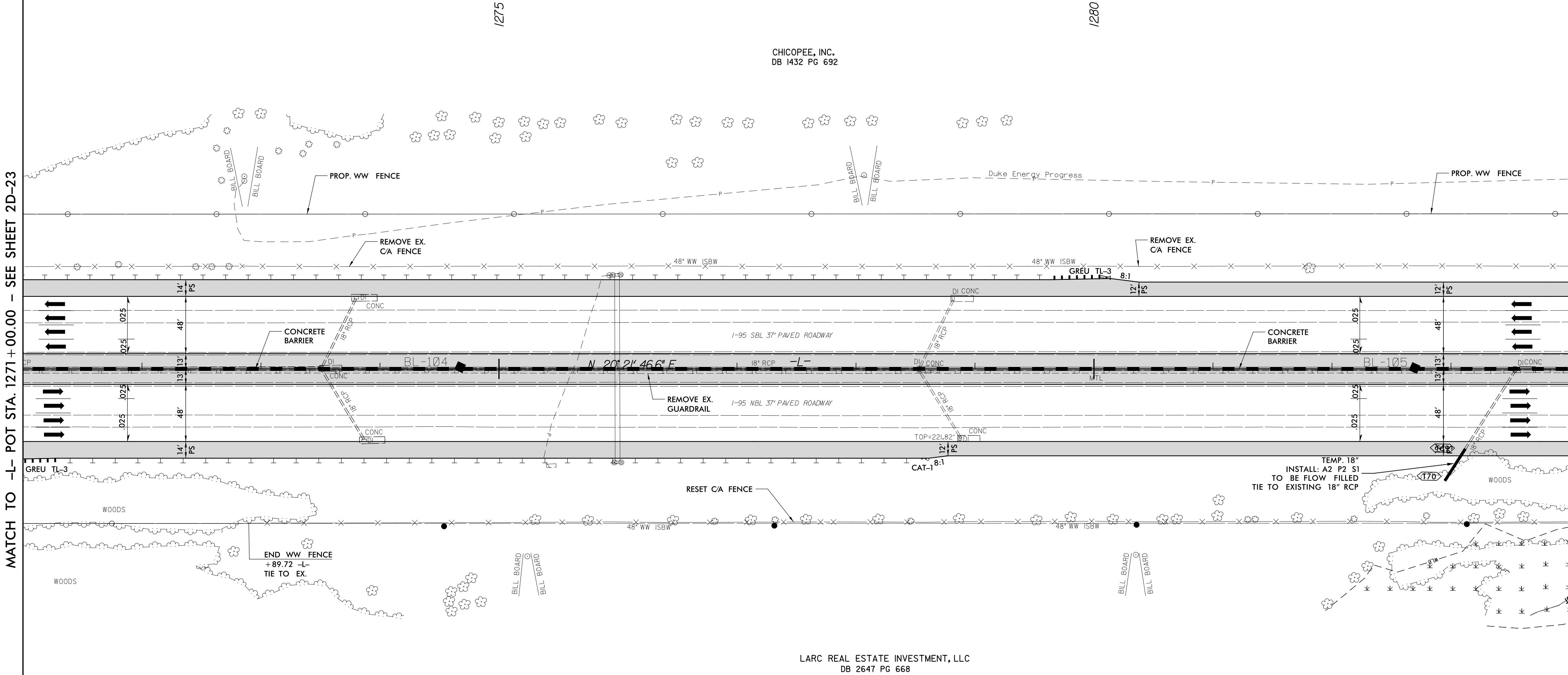
5/14/99

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TEMPORARY DRAINAGE DETAIL FOR PHASED CONSTRUCTION



PROJECT REFERENCE NO.		SHEET NO.	
I-5986B		2D-24	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
Susan C. Lancaster 5/13/2021		Joshua G. Dalton 5/13/2021	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
Michael Baker Engineering, Inc. 1500 Regency Park Suite 600 Charlotte, NC 27518 NC License: F-1034		SUNGATE DESIGN GROUP, P.A. 1500 Regency Park Suite 600 Charlotte, NC 27518 NC License: C-0890	



MATCH TO -L- POT STA. 1271 + 00.00 - SEE SHEET 2D-23

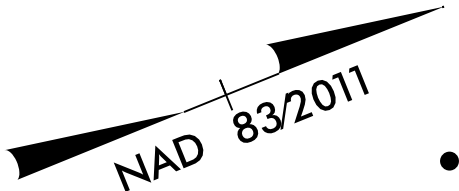
MATCH TO -L- POT STA. 1284 + 00.00

5/14/99

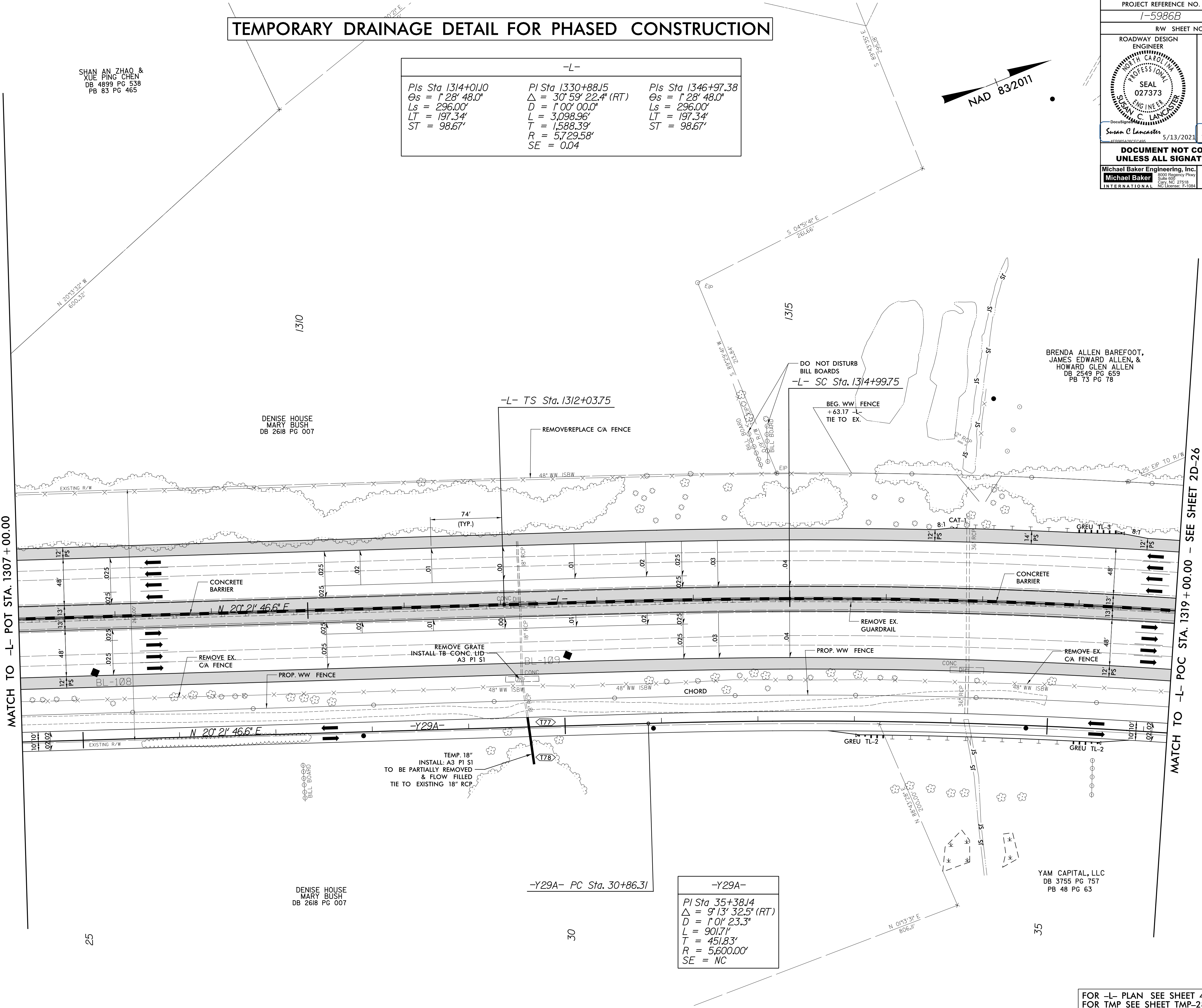
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TEMPORARY DRAINAGE DETAIL FOR PHASED CONSTRUCTION

-L-		
<i>Pls Sta 1314+01.10</i>	<i>Pl Sta 1330+88.15</i>	<i>Pls Sta 1346+97.38</i>
$\Theta s = 1^{\circ} 28' 48.0''$	$\Delta = 30^{\circ} 59' 22.4'' (RT)$	$\Theta s = 1^{\circ} 28' 48.0''$
$Ls = 296.00'$	$D = 1^{\circ} 00' 00.0''$	$Ls = 296.00'$
$LT = 197.34'$	$L = 3,098.96'$	$LT = 197.34'$
$ST = 98.67'$	$T = 1,588.39'$	$ST = 98.67'$
	$R = 5,729.58'$	
	$SE = 0.04$	



PROJECT REFERENCE NO. <i>1-5986B</i>		SHEET NO. <i>2D-25</i>
R/W SHEET NO.		
ROADWAY DESIGN ENGINEER SEAL 027373 SUSAN C. LANCASTER 5/13/2021	HYDRAULICS ENGINEER SEAL 26971 JOSHUA G. DALTON 5/13/2021	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		
Michael Baker Engineering, Inc. 1500 Regency Park Suite 600 Cary, NC 27518 NC License: F-1034		SUNGATE DESIGN GROUP, P.A. 505 ZIEGLER ROAD RALEIGH, NORTH CAROLINA 27605 NC COA No. C-0890



-Y29A-
<i>Pl Sta 35+38.14</i>
$\Delta = 9^{\circ} 13' 32.5'' (RT)$
$D = 1^{\circ} 01' 23.3''$
$L = 901.71'$
$T = 451.83'$
$R = 5,600.00'$
$SE = NC$

FOR -L- PLAN SEE SHEET 40
FOR TMP SEE SHEET TMP-28B

