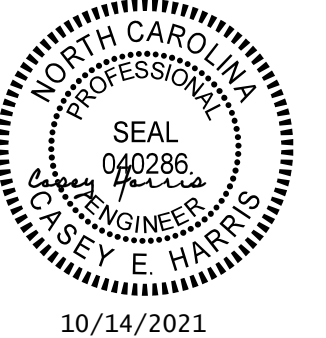



|  |           |
|--|-----------|
| PROJECT REFERENCE NO.  | SHEET NO. |
| U-2579AB   | 10A       |
| RW SHEET NO.   |           |
| ROADWAY DESIGN ENGINEER  |           |
|   |           |
| 10/14/2021   |           |
| DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED  |           |
|  HDR Engineering, Inc. of the Carolinas<br>555 Fayetteville St. Suite 900 Raleigh, N.C. 27601<br>N.C.B.E.L.S. License Number: F-01116 |           |

**-Y15-** (I-40 BYPASS)

|  |   |  |
|--|---|--|
| Pls Sta. 28+38.02<br>Θs = 2° 37' 30.0"<br>Ls = 300.00'<br>LT = 200.02'<br>ST = 100.02'<br>INC = 50.00' | PI Sta. 31+82.43<br>Δ = 8° 32' 20.6" (RT)<br>D = 1° 45' 00.0"<br>L = 487.95'<br>T = 244.43'<br>R = 3,274.05'<br>SE = 06 | Pls Sta. 35+25.97<br>Θs = 2° 37' 30.0"<br>Ls = 300.00'<br>LT = 200.02'<br>ST = 100.02'<br>INC = 50.00' |
|--|---|--|

|   |  |   |
|---|--|---|
| Pls Sta. 66+57.43<br>Θs = 1° 00' 00.0"<br>Ls = 200.00'<br>LT = 133.34'<br>ST = 66.67'<br>INC = 50.00' | PI Sta. 80+19.99<br>Δ = 25° 29' 20.6" (RT)<br>D = 1° 00' 00.0"<br>L = 2,548.91'<br>T = 1,295.90'<br>R = 5,729.58'<br>SE = 04 | Pls Sta. 93+39.67<br>Θs = 1° 00' 00.0"<br>Ls = 200.00'<br>LT = 133.34'<br>ST = 66.67'<br>INC = 50.00' |
|---|--|---|

**-Y15FLYAC-** (FLYOVER)

|  |   |  |
|--|---|--|
| Pls Sta. 12+40.08<br>Θs = 4° 26' 43.3"<br>Ls = 360.00'<br>LT = 240.08'<br>ST = 120.07'<br>INC = 60.00' | PI Sta. 15+10.50<br>Δ = 7° 25' 06.6" (RT)<br>D = 2° 28' 10.7"<br>L = 300.39'<br>T = 150.40'<br>R = 2,320.00'<br>SE = 06 | Pls Sta. 17+80.65<br>Θs = 4° 26' 43.3"<br>Ls = 360.00'<br>LT = 240.08'<br>ST = 120.07'<br>INC = 60.00' |
|--|---|--|

|   |  |   |
|---|--|---|
| Pls Sta. 21+80.40<br>Θs = 1° 52' 42.8"<br>Ls = 240.00'<br>LT = 160.01'<br>ST = 80.01'<br>INC = 60.00' | PI Sta. 54+77.32<br>Δ = 82° 37' 38.4" (LT)<br>D = 1° 33' 55.7"<br>L = 5,278.16'<br>T = 3,216.94'<br>R = 3,660.00'<br>SE = 04 | Pls Sta. 76+18.55<br>Θs = 1° 52' 42.8"<br>Ls = 240.00'<br>LT = 160.01'<br>ST = 80.01'<br>INC = 60.00' |
|---|--|---|

|   |  |   |
|---|--|---|
| Pls Sta. 79+18.55<br>Θs = 1° 06' 35.9"<br>Ls = 210.00'<br>LT = 140.00'<br>ST = 70.00'<br>INC = 70.00' | PI Sta. 85+52.56<br>Δ = 11° 52' 54.5" (RT)<br>D = 1° 03' 25.6"<br>L = 1,123.98'<br>T = 564.01'<br>R = 5,420.00'<br>SE = 03 | Pls Sta. 91+82.53<br>Θs = 1° 06' 35.9"<br>Ls = 210.00'<br>LT = 140.00'<br>ST = 70.00'<br>INC = 70.00' |
|---|--|---|

**-Y15RPA-** (RAMP)

|   |  |   |
|---|--|---|
| Pls Sta. 23+16.47<br>Θs = 18° 08' 28.1"<br>Ls = 480.00'<br>LT = 321.70'<br>ST = 161.54'<br>INC = 60.00' | PI Sta. 27+50.99<br>Δ = 40° 02' 35.6" (RT)<br>D = 7° 33' 31.7"<br>L = 529.76'<br>T = 276.21'<br>R = 758.00'<br>SE = 08 | Pls Sta. 31+66.07<br>Θs = 18° 08' 28.1"<br>Ls = 480.00'<br>LT = 321.70'<br>ST = 161.54'<br>INC = 60.00' |
|---|--|---|

**-L-**

|  |   |
|--|---|
| Pls Sta. 774+06.63<br>Θs = 0° 50' 35.3"<br>Ls = 225.00'<br>LT = 150.00'<br>ST = 75.00'<br>INC = 75.00' | PI Sta. 795+15.62<br>Δ = 29° 47' 50.6" (RT)<br>D = 0° 44' 58.0"<br>L = 3,975.88'<br>T = 2,033.99'<br>R = 7,645.00'<br>SE = 03 |
|--|---|

**-Y15RPDREV-** (RAMP)

|   |  |   |
|---|--|---|
| Pls Sta 27+43.04<br>Θs = 4° 26' 43.3"<br>Ls = 360.00'<br>LT = 240.08'<br>ST = 120.07'<br>INC = 60.00' | PI Sta 38+99.44<br>Δ = 48° 08' 45.1" (RT)<br>D = 2° 28' 10.7"<br>L = 1,949.50'<br>T = 1,036.47'<br>R = 2,320.00'<br>SE = 06<br>V = 60MPH | Pls Sta 49+32.54<br>Θs = 4° 26' 43.3"<br>Ls = 360.00'<br>LT = 240.08'<br>ST = 120.07'<br>INC = 60.00' |
|---|--|---|

**-Y15REV-** (RELOCATED I-40 BYPASS)

|   |  |   |
|---|--|---|
| Pls Sta. 11+73.18<br>Θs = 1° 21' 41.3"<br>Ls = 240.00'<br>LT = 160.00'<br>ST = 80.00'<br>INC = 60.00' | PI Sta. 21+08.35<br>Δ = 19° 13' 21.3" (RT)<br>D = 1° 08' 04.5"<br>L = 1,694.26'<br>T = 855.17'<br>R = 5,050.00'<br>SE = 04 | Pls Sta. 30+27.45<br>Θs = 1° 21' 41.3"<br>Ls = 240.00'<br>LT = 160.00'<br>ST = 80.00'<br>INC = 60.00' |
|---|--|---|

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|--|--|--|
| Pls Sta. 69+22.62<br>Θs = 0° 32' 07.7"<br>Ls = 200.00'<br>LT = 133.33'<br>ST = 66.67'<br>INC = 100.00' | PI Sta. 74+07.12<br>Δ = 4° 28' 21.2" (RT)<br>D = 0° 32' 07.7"<br>L = 835.25'<br>T = 417.84'<br>R = 10,700.00'<br>SE = 02 | Pls Sta. 78+91.20<br>Θs = 0° 32' 07.7"<br>Ls = 200.00'<br>LT = 133.33'<br>ST = 66.67'<br>INC = 100.00' |
|--|--|--|

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|---|---|
| PI Sta. 80+19.99<br>Δ = 25° 29' 20.6" (RT)<br>D = 1° 00' 00.0"<br>L = 2,548.91'<br>T = 1,295.90'<br>R = 5,729.58'<br>SE = EXIST | Pls Sta. 93+39.67<br>Θs = 1° 00' 00.0"<br>Ls = 200.00'<br>LT = 133.34'<br>ST = 66.67' |
|---|---|

**-Y15FLYCA-** (FLYOVER)

|  |  |  |
|--|--|--|
| Pls Sta. 12+00.03<br>Θs = 3° 02' 51.5"<br>Ls = 300.00'<br>LT = 200.03'<br>ST = 100.03'<br>INC = 60.00' | PI Sta. 21+26.72<br>Δ = 32° 40' 42.7" (RT)<br>D = 2° 01' 54.4"<br>L = 1,608.38'<br>T = 826.72'<br>R = 2,820.00'<br>SE = 05 | Pls Sta. 30+08.41<br>Θs = 3° 02' 51.5"<br>Ls = 300.00'<br>LT = 200.03'<br>ST = 100.03'<br>INC = 60.00' |
|--|--|--|

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|--|---|--|
| Pls Sta. 34+48.46<br>Θs = 4° 26' 43.3"<br>Ls = 360.00'<br>LT = 240.08'<br>ST = 120.07'<br>INC = 60.00' | PI Sta. 65+16.52<br>Δ = 103° 35' 56.2" (LT)<br>D = 2° 28' 10.7"<br>L = 4,194.89'<br>T = 2,948.14'<br>R = 2,320.00'<br>SE = 06 | Pls Sta. 78+83.34<br>Θs = 4° 26' 43.3"<br>Ls = 360.00'<br>LT = 240.08'<br>ST = 120.07'<br>INC = 60.00' |
|--|---|--|

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|--|--|--|
| Pls Sta. 83+63.35<br>Θs = 4° 26' 43.3"<br>Ls = 360.00'<br>LT = 240.08'<br>ST = 120.07'<br>INC = 60.00' | PI Sta. 85+81.66<br>Δ = 4° 51' 25.3" (RT)<br>D = 2° 28' 10.7"<br>L = 196.67'<br>T = 98.39'<br>R = 2,320.00'<br>SE = 06 | Pls Sta. 88+00.01<br>Θs = 4° 26' 43.3"<br>Ls = 360.00'<br>LT = 240.08'<br>ST = 120.07'<br>INC = 60.00' |
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**-Y15RPB-** (RAMP)

|  |  |  |
|--|--|--|
| Pls Sta. 18+61.95<br>Θs = 4° 26' 43.3"<br>Ls = 360.00'<br>LT = 240.08'<br>ST = 120.07'<br>INC = 60.00' | PI Sta. 26+54.22<br>Δ = 32° 19' 25.4" (RT)<br>D = 2° 28' 10.7"<br>L = 1,308.84'<br>T = 672.35'<br>R = 2,320.00'<br>SE = 06 | Pls Sta. 34+10.78<br>Θs = 4° 26' 43.3"<br>Ls = 360.00'<br>LT = 240.08'<br>ST = 120.07'<br>INC = 60.00' |
|--|--|--|

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|---|---|
| Pls Sta. 38+10.72<br>Θs = 1° 20' 44.7"<br>Ls = 240.00'<br>LT = 160.00'<br>ST = 80.00'<br>INC = 60.00' | PI Sta. 40+11.87<br>Δ = 2° 43' 01.6" (LT)<br>D = 1° 07' 17.3"<br>L = 242.28'<br>T = 121.16'<br>R = 5,109.00'<br>SE = 04 |
|---|---|

**-Y15LPA-** (LOOP)

|   |   |
|---|---|
| PI Sta. 10+18.27<br>Δ = 0° 16' 20.3" (LT)<br>D = 0° 44' 42.6"<br>L = 36.54'<br>T = 18.27'<br>R = 7,689.04'<br>SE = 08 | Pls Sta. 11+29.88<br>Θs = 1° 02' 35.6"<br>Ls = 280.00'<br>LT = 186.67'<br>ST = 93.34'<br>INC = 35.00' |
|---|---|

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|--|--|--|
| Pls Sta. 15+06.37<br>Θs = 32° 05' 08.3"<br>Ls = 280.00'<br>LT = 189.83'<br>ST = 96.21'<br>INC = 35.00' | PI Sta. 53+68.09<br>Δ = 187° 35' 04.9" (RT)<br>D = 22° 55' 05.9"<br>L = 818.49'<br>T = 3,771.54'<br>R = 250.00'<br>SE = 08 | Pls Sta. 25+11.25<br>Θs = 32° 05' 08.3"<br>Ls = 280.00'<br>LT = 189.83'<br>ST = 96.21'<br>INC = 35.00' |
|--|--|--|

**-Y15FLYBD-** (FLYOVER)

|  |  |  |
|--|--|--|
| Pls Sta. 12+40.08<br>Θs = 4° 26' 43.3"<br>Ls = 360.00'<br>LT = 240.08'<br>ST = 120.07'<br>INC = 60.00' | PI Sta. 17+84.98<br>Δ = 20° 45' 38.3" (RT)<br>D = 2° 28' 10.7"<br>L = 840.63'<br>T = 424.98'<br>R = 2,320.00'<br>SE = 06 | Pls Sta. 23+20.70<br>Θs = 4° 26' 43.3"<br>Ls = 360.00'<br>LT = 240.08'<br>ST = 120.07'<br>INC = 60.00' |
|--|--|--|

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|--|---|--|
| Pls Sta. 28+00.80<br>Θs = 6° 36' 39.8"<br>Ls = 360.00'<br>LT = 240.17'<br>ST = 120.15'<br>INC = 60.00' | PI Sta. 88+39.55<br>Δ = 150° 28' 10.6" (LT)<br>D = 3° 40' 22.1"<br>L = 4,096.86'<br>T = 5,918.92'<br>R = 1,560.00'<br>SE = 06 | Pls Sta. 71+37.64<br>Θs = 6° 36' 39.8"<br>Ls = 360.00'<br>LT = 240.17'<br>ST = 120.15'<br>INC = 60.00' |
|--|---|--|

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|--|--|--|
| Pls Sta. 75+77.52<br>Θs = 3° 02' 51.5"<br>Ls = 300.00'<br>LT = 200.03'<br>ST = 100.03'<br>INC = 60.00' | PI Sta. 85+77.53<br>Δ = 35° 24' 08.0" (RT)<br>D = 2° 01' 54.4"<br>L = 1,742.44'<br>T = 900.04'<br>R = 2,820.00'<br>SE = 05 | Pls Sta. 95+19.95<br>Θs = 3° 02' 51.5"<br>Ls = 300.00'<br>LT = 200.03'<br>ST = 100.03'<br>INC = 60.00' |
|--|--|--|

**-Y15RPC-** (RAMP)

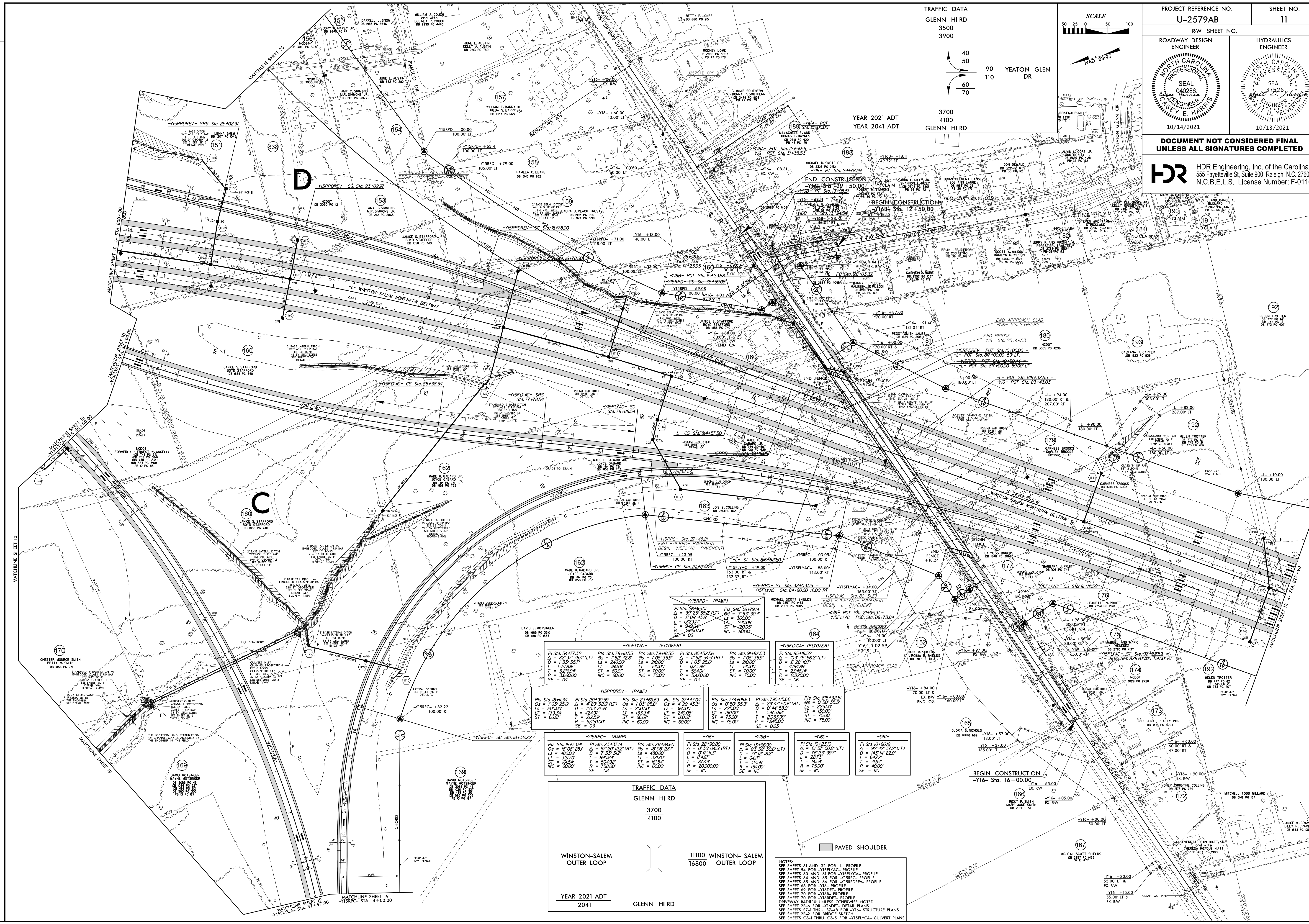
|   |  |   |
|---|--|---|
| Pls Sta. 16+73.91<br>Θs = 18° 08' 28.1"<br>Ls = 480.00'<br>LT = 321.70'<br>ST = 161.54'<br>INC = 60.00' | PI Sta. 23+37.14<br>Δ = 67° 20' 12.2" (RT)<br>D = 7° 33' 31.7"<br>L = 890.84'<br>T = 504.92'<br>R = 758.00'<br>SE = 08 | Pls Sta. 28+84.60<br>Θs = 18° 08' 28.1"<br>Ls = 480.00'<br>LT = 321.70'<br>ST = 161.54'<br>INC = 60.00' |
|---|--|---|

REVISIONS

PLOT DRIVER: NCDOT\_color\_eng\_50.plt  
USER: SPEREIRA  
DATE: 8/27/2021  
TIME: 2:04:22 PM

PENTABLE: NCDOT\_pshpfl\_conventional.tbl  
FILE: \





| TRAFFIC DATA       |                |
|--------------------|----------------|
| GLENN HI RD        | 3500           |
|                    | 3900           |
| 40                 | YEATON GLEN DR |
| 50                 |                |
| 60                 |                |
| 70                 |                |
| YEAR 2021 ADT 3700 |                |
| YEAR 2041 ADT 4100 |                |
| GLENN HI RD        |                |

**SCALE**  
0 25 50 100

**PROJECT REFERENCE NO.**  
U-2579AB

**SHEET NO.**  
11

**ROADWAY DESIGN ENGINEER**  
NORTH CAROLINA PROFESSIONAL SEAL  
040286  
C. SETH E. HARRIS  
10/14/2021

**HYDRAULICS ENGINEER**  
NORTH CAROLINA PROFESSIONAL SEAL  
1526  
D. YELVEY  
10/13/2021

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

**HDR** HDR Engineering, Inc. of the Carolinas  
555 Fayetteville St. Suite 900 Raleigh, N.C. 27601  
N.C.B.E.L.S. License Number: F-0116

REVISIONS

PLOT DRIVER: NCDOT\_pshp\_color\_eng-100.plt  
 USER: CHARRIS  
 FILE: NCDOT\NCDOT-U2579AB\6.0.CAD.BTM\6.2.Wrk\In\_Progress\U2579AB\Roadway\Prj\U2579ab\_r\_d\_y\_psh\_11.dgn

|   |  |  |  |  |  |
|---|--|--|--|--|--|
| <b>-YISRPD- (RAMP)</b><br>PI Sta. 28+46.00<br>Δ = 82°37'38" (LT)<br>D = 133'25'<br>LT = 326.54<br>ST = 326.54<br>R = 3265000<br>SE = 04 | <b>-YISRPD- (RAMP)</b><br>PI Sta. 29+43.15<br>Δ = 77°23'30" (LT)<br>D = 209'43'<br>LT = 1283.71<br>ST = 549.54<br>R = 5495000<br>SE = 06 | <b>-YISRPD- (RAMP)</b><br>PI Sta. 36+79.14<br>Δ = 2°09'43"<br>D = 1283.71<br>LT = 2400.00<br>ST = 600.00<br>R = 6000000<br>SE = 06 | <b>-YISRPD- (RAMP)</b><br>PI Sta. 36+79.14<br>Δ = 2°09'43"<br>D = 1283.71<br>LT = 2400.00<br>ST = 600.00<br>R = 6000000<br>SE = 06 | <b>-YISRPD- (RAMP)</b><br>PI Sta. 36+79.14<br>Δ = 2°09'43"<br>D = 1283.71<br>LT = 2400.00<br>ST = 600.00<br>R = 6000000<br>SE = 06 | <b>-YISRPD- (RAMP)</b><br>PI Sta. 36+79.14<br>Δ = 2°09'43"<br>D = 1283.71<br>LT = 2400.00<br>ST = 600.00<br>R = 6000000<br>SE = 06 |
|---|--|--|--|--|--|

|   |  |  |  |  |  |
|---|--|--|--|--|--|
| <b>-YISRPD- (RAMP)</b><br>PI Sta. 18+11.34<br>Δ = 103°35'52" (LT)<br>D = 27'28'07"<br>LT = 153.19<br>ST = 2348.14<br>R = 2348000<br>SE = 06 | <b>-YISRPD- (RAMP)</b><br>PI Sta. 20+90.59<br>Δ = 72°32'22" (RT)<br>D = 103'25'<br>LT = 133.14<br>ST = 66.67<br>R = 6667000<br>SE = 03 | <b>-YISRPD- (RAMP)</b><br>PI Sta. 23+69.63<br>Δ = 103'25'<br>LT = 133.14<br>ST = 66.67<br>R = 6667000<br>SE = 03 | <b>-YISRPD- (RAMP)</b><br>PI Sta. 27+43.04<br>Δ = 4°26'43"<br>D = 2000.00<br>LT = 426.43<br>ST = 106.61<br>R = 10661000<br>SE = 03 | <b>-YISRPD- (RAMP)</b><br>PI Sta. 27+43.04<br>Δ = 4°26'43"<br>D = 2000.00<br>LT = 426.43<br>ST = 106.61<br>R = 10661000<br>SE = 03 | <b>-YISRPD- (RAMP)</b><br>PI Sta. 27+43.04<br>Δ = 4°26'43"<br>D = 2000.00<br>LT = 426.43<br>ST = 106.61<br>R = 10661000<br>SE = 03 |
|---|--|--|--|--|--|

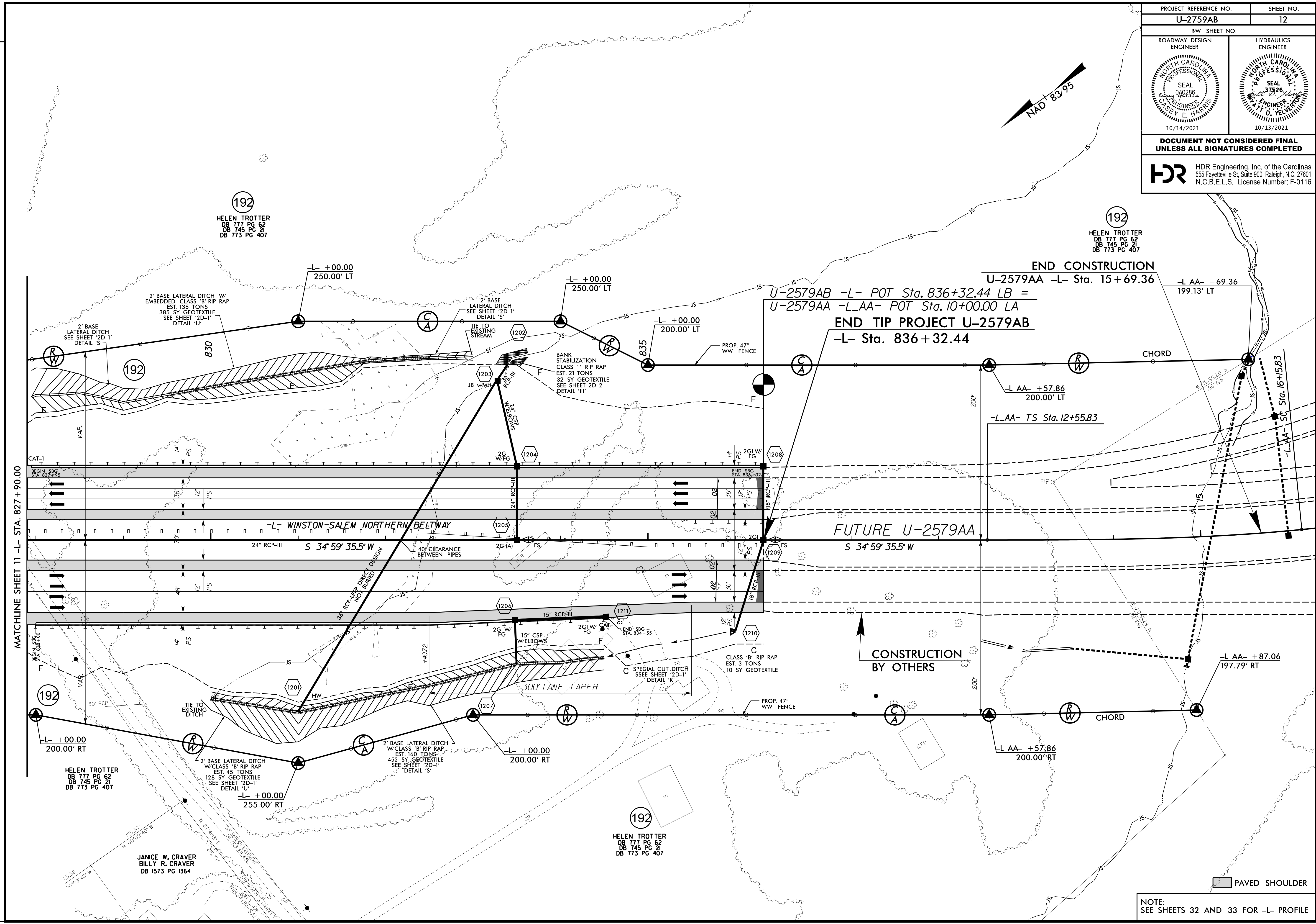
|  |                       |
|--|-----------------------|
| <b>TRAFFIC DATA</b><br>GLENN HI RD<br>3700<br>4100<br>WINSTON-SALEM OUTER LOOP<br>11100 WINSTON-SALEM OUTER LOOP<br>16800<br>YEAR 2021 ADT 2041<br>GLENN HI RD | <b>PAVED SHOULDER</b> |
|--|-----------------------|

**NOTES:**  
 SEE SHEETS 31 AND 32 FOR -L- PROFILE  
 SEE SHEET 34 FOR -YISFLYAC- PROFILE  
 SEE SHEETS 40 AND 41 FOR -YISFLYAC- PROFILE  
 SEE SHEETS 64 AND 65 FOR -YISRPD- PROFILE  
 SEE SHEETS 65 AND 66 FOR -YISRPD- PROFILE  
 SEE SHEET 68 FOR -Y16- PROFILE  
 SEE SHEET 69 FOR -Y16B- PROFILE  
 SEE SHEET 70 FOR -Y16B- PROFILE  
 SEE SHEET 69 FOR -Y16B- PROFILE  
 DRIVEWAY RADII UNLESS OTHERWISE NOTED  
 SEE SHEET 38 FOR TRIBUTARY DETAIL PLANS  
 SEE SHEETS 37-48 FOR -Y16- STRUCTURE PLANS  
 SEE SHEET 38-2 FOR BRIDGE SKETCH  
 SEE SHEETS C2-1 THRU C2-5 FOR -YISFLYAC- CULVERT PLANS

PENTABLE: NCDOT\_pshp\_color\_eng-100.plt  
 TIME: 2:02:17 PM  
 DATE: 10/13/2021  
 USER: CHARRIS  
 FILE: NCDOT\NCDOT-U2579AB\6.0.CAD.BTM\6.2.Wrk\In\_Progress\U2579AB\Roadway\Prj\U2579ab\_r\_d\_y\_psh\_11.dgn



|  |                        |
|--|------------------------|
| PROJECT REFERENCE NO.<br><b>U-2759AB</b>   | SHEET NO.<br><b>12</b> |
| RW SHEET NO.   |                        |
| ROADWAY DESIGN ENGINEER  | HYDRAULICS ENGINEER    |
|  |                        |
| <b>DOCUMENT NOT CONSIDERED FINAL<br/>UNLESS ALL SIGNATURES COMPLETED</b>   |                        |
| <b>HDR Engineering, Inc. of the Carolinas</b><br>555 Fayetteville St. Suite 900 Raleigh, N.C. 27601<br>N.C.B.E.L.S. License Number: F-0116 |                        |



PLOT DRIVER: NCDOT\_color\_eng\_50.plt  
 USER: CHARRIS  
 DATE: 10/13/2021  
 TIME: 1:46:39 PM  
 FILE: NCDOT\NCDOT-U2759AB\6.0.CAD.BTM\6.2.Work\In\_Progress\U-2759AB\Roadway\Prj\U2759ab\_rdy\_psh\_12.dgn

REVISIONS

MATCHLINE SHEET 11 -L- STA. 827 + 90.00

HELEN TROTTER  
DB 777 PG 62  
DB 745 PG 21  
DB 773 PG 407

JANICE W. CRAVER  
BILLY R. CRAVER  
DB 1573 PG 1364


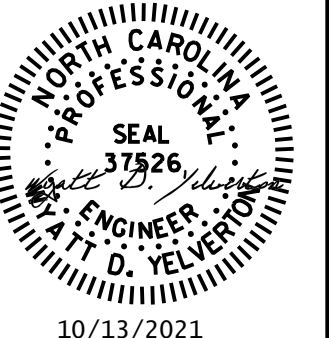

HELEN TROTTER  
DB 777 PG 62  
DB 745 PG 21  
DB 773 PG 407

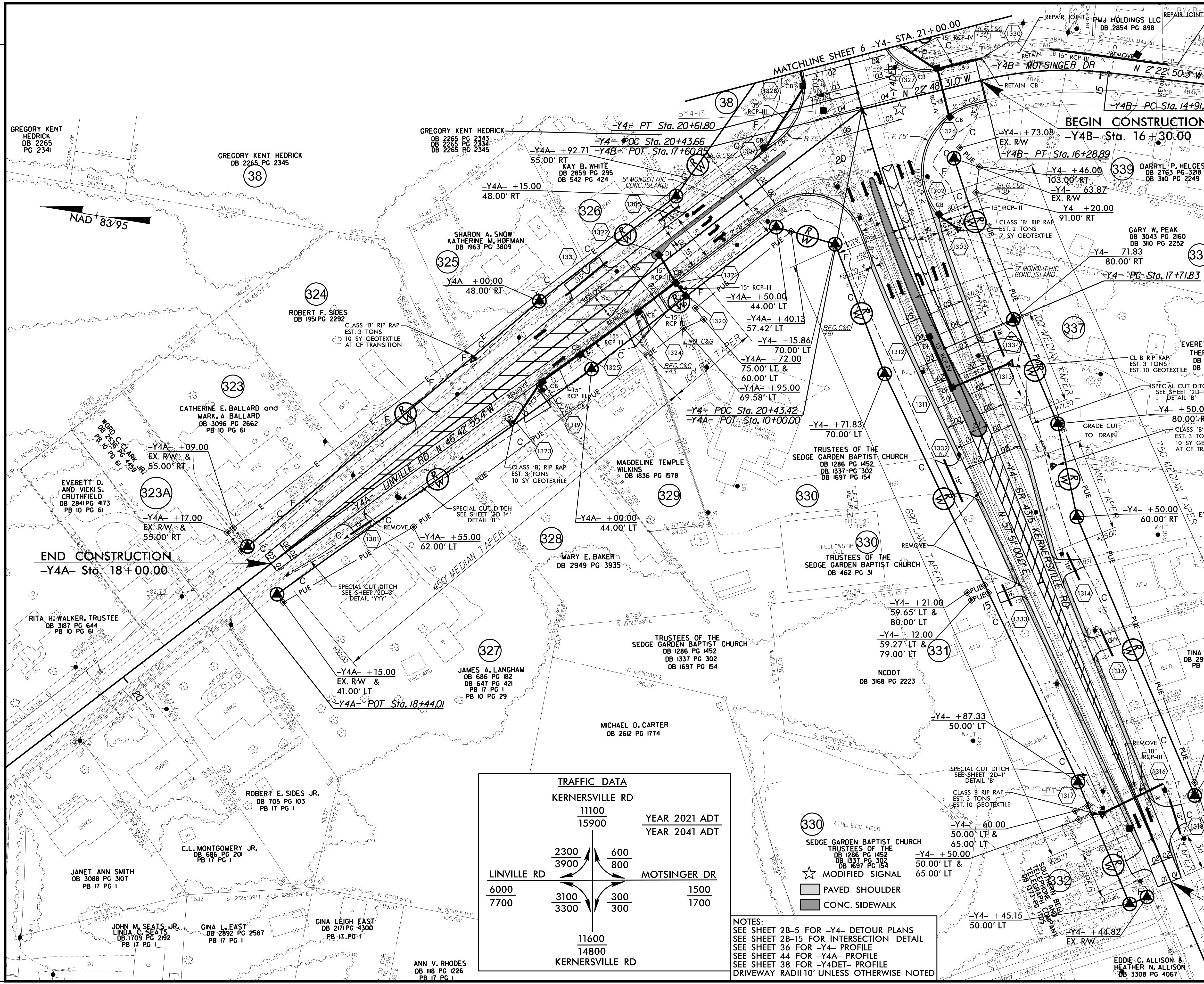
HELEN TROTTER  
DB 777 PG 62  
DB 745 PG 21  
DB 773 PG 407

NOTE:  
SEE SHEETS 32 AND 33 FOR -L- PROFILE

PAVED SHOULDER



|   |  |   |  |
|---|--|---|--|
| PROJECT REFERENCE NO.<br><b>U-2579AB</b>  |  | SHEET NO.<br><b>13</b>  |  |
| ROADWAY DESIGN ENGINEER   |  | HYDRAULICS ENGINEER   |  |
|    |  |  |  |
| 10/14/2021  |  | 10/13/2021  |  |
| <b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>  |  |   |  |
|  HDR Engineering, Inc. of the Carolinas<br>555 Fayetteville St. Suite 900 Raleigh, N.C. 27601<br>N.C.B.E.L.S. License Number: F-0116 |  |   |  |



**-Y4B-**  
 PI Sta. 15+60.99  
 $\Delta = 20' 25'' 40.7''$  (LT)  
 $D = 14' 52'' 55.3''$   
 $L = 137.27'$   
 $T = 69.37'$   
 $R = 385.00'$   
 SE = EXIST.

**-Y4-**  
 PI Sta. 19+17.07  
 $\Delta = 8' 18'' 25.7''$  (RT)  
 $D = 2' 51'' 53.2''$   
 $L = 289.97'$   
 $R = 2,000.00'$   
 $SE = 05$   
 $Ro = 120'$

| TRAFFIC DATA    |       |               |               |
|-----------------|-------|---------------|---------------|
| KERNERSVILLE RD |       |               |               |
|                 | 11100 |               |               |
|                 | 15900 |               |               |
|                 |       | YEAR 2021 ADT | YEAR 2041 ADT |
| LINVILLE RD     | 2300  | 600           |               |
|                 | 3900  | 800           |               |
| MOTSINGER DR    | 6000  | 1500          |               |
|                 | 7700  | 1700          |               |
|                 | 3100  | 300           |               |
|                 | 3300  | 300           |               |
|                 | 11600 |               |               |
|                 | 14800 |               |               |
| KERNERSVILLE RD |       |               |               |

**NOTES:**  
 SEE SHEET 2B-5 FOR -Y4- DETOUR PLANS  
 SEE SHEET 2B-15 FOR INTERSECTION DETAIL  
 SEE SHEET 36 FOR -Y4A- PROFILE  
 SEE SHEET 44 FOR -Y4A- PROFILE  
 SEE SHEET 38 FOR -Y4DET- PROFILE  
 DRIVEWAY RADII 10' UNLESS OTHERWISE NOTED

PLOT DRIVER: NCDOT...  
 USER: CHARRIS  
 FILE: NCDOT\NCDOT-U2579AB\6.0.CAD.BTM\6.2.Worx.In...

REVISIONS

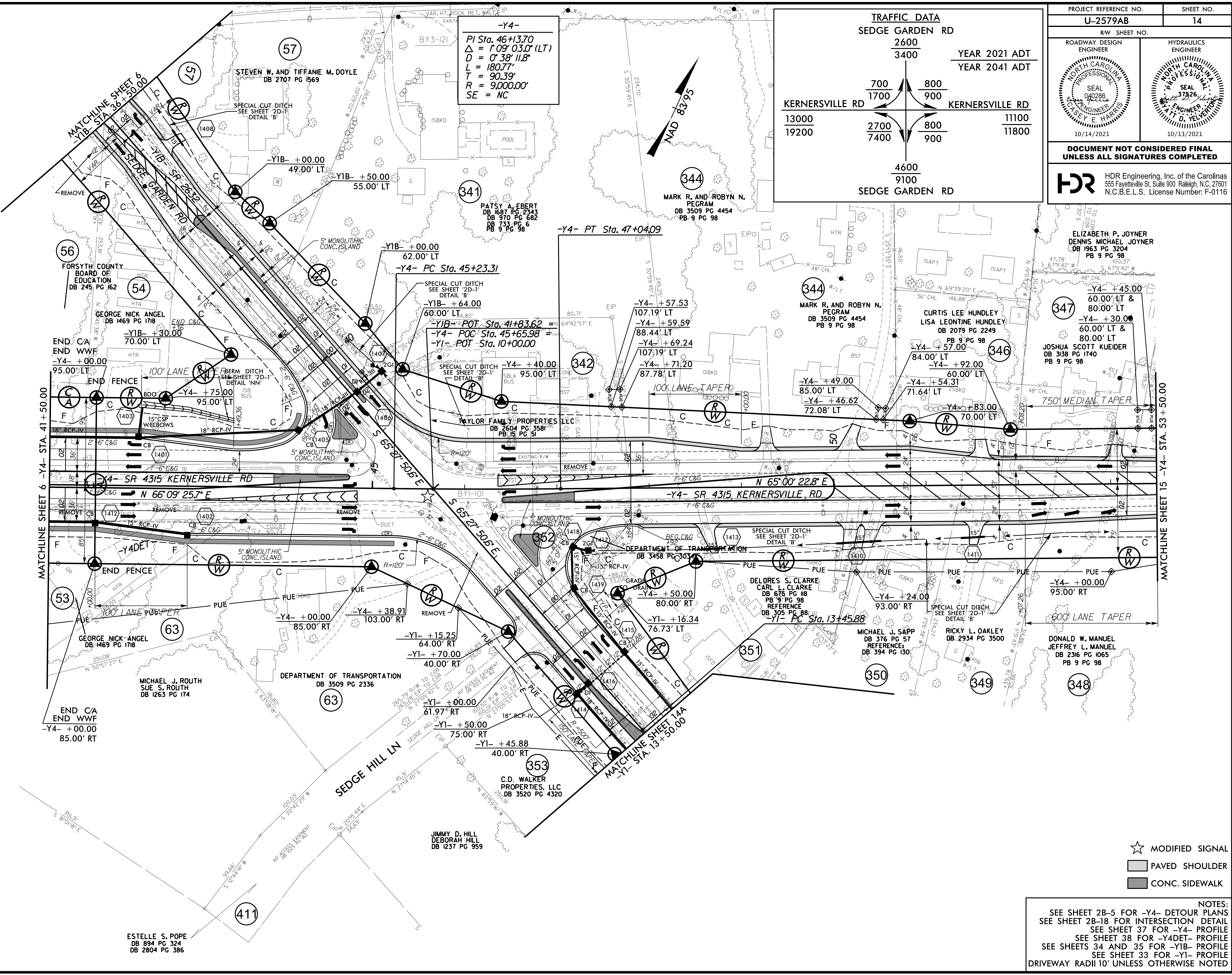
**END CONSTRUCTION**  
 -Y4A- Sta. 18+00.00

**BEGIN CONSTRUCTION**  
 -Y4- Sta. 11+50.00



|   |  |                        |  |
|---|--|------------------------|--|
| PROJECT REFERENCE NO.<br><b>U-2579AB</b>  |  | SHEET NO.<br><b>14</b> |  |
| ROADWAY DESIGN ENGINEER   |  | HYDRAULICS ENGINEER    |  |
|   |  |                        |  |
| <b>DOCUMENT NOT CONSIDERED FINAL<br/>UNLESS ALL SIGNATURES COMPLETED</b>  |  |                        |  |
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| TRAFFIC DATA    |      |                 |       |
|-----------------|------|-----------------|-------|
| SEdge GARDEN RD |      |                 |       |
| 2600            |      | 3400            |       |
| YEAR 2021 ADT   |      | YEAR 2041 ADT   |       |
| 700             | 800  | 700             | 800   |
| 1700            | 900  | 1700            | 900   |
| KERNERSVILLE RD |      | KERNERSVILLE RD |       |
| 13000           | 2700 | 800             | 11100 |
| 19200           | 7400 | 900             | 11800 |
| 4600            |      | 9100            |       |
| SEdge GARDEN RD |      |                 |       |



PLOT DRIVER: NCDOT\_color\_eng\_50.plt  
 USER: SPEREIRA  
 FILE: \

PENTABLE: NCDOT\_pshpfl\_conventional.tbl  
 TIME: 2:05:34 PM

DATE: 8/27/2021

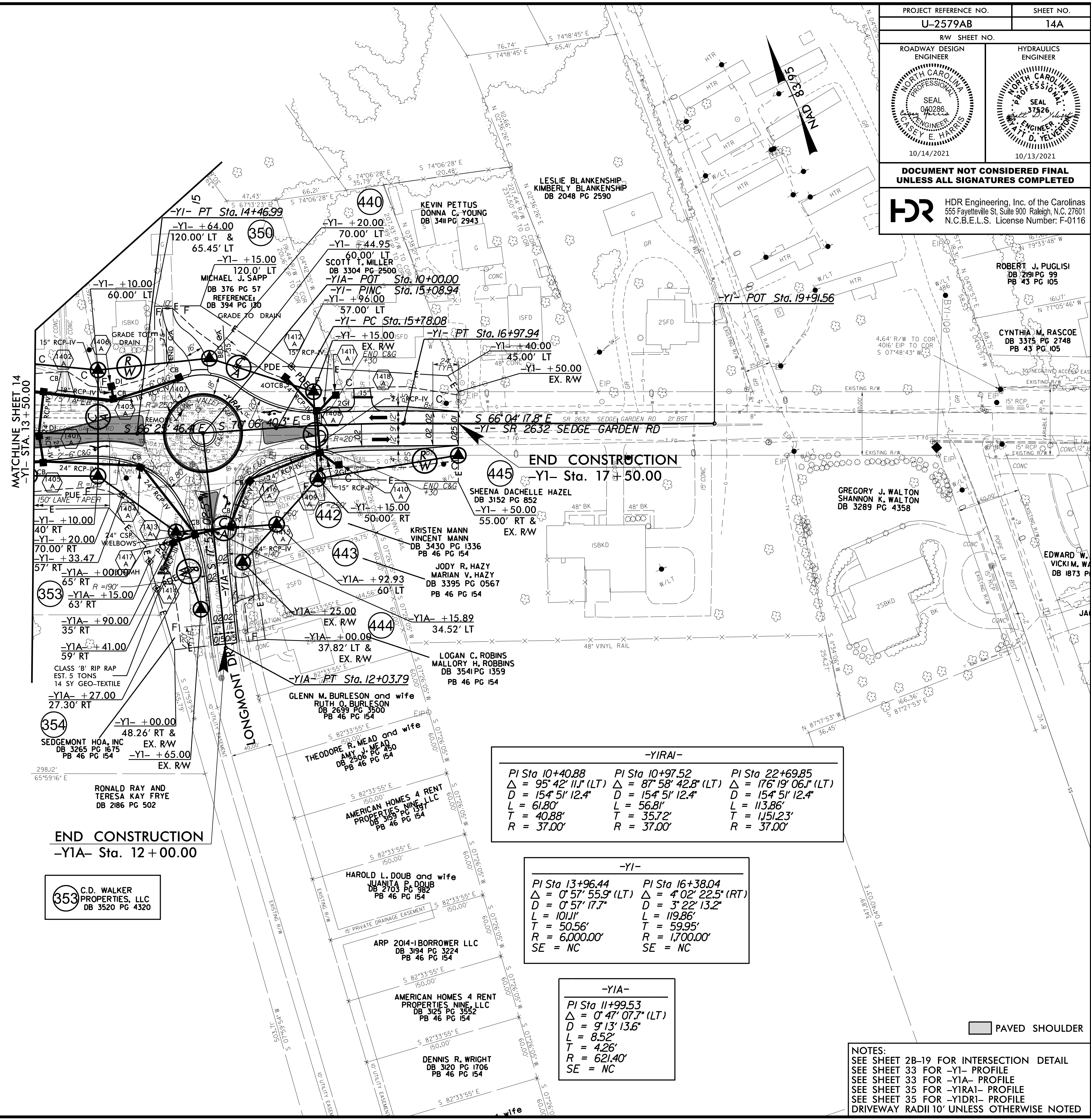
- ★ MODIFIED SIGNAL
- ▭ PAVED SHOULDER
- ▭ CONC. SIDEWALK

**NOTES:**  
 SEE SHEET 2B-5 FOR -Y4- DETOUR PLANS  
 SEE SHEET 2B-18 FOR INTERSECTION DETAIL  
 SEE SHEET 37 FOR -Y4- PROFILE  
 SEE SHEET 38 FOR -Y4DET- PROFILE  
 SEE SHEETS 34 AND 35 FOR -Y1B- PROFILE  
 SEE SHEET 33 FOR -Y1- PROFILE  
 DRIVEWAY RADII 10' UNLESS OTHERWISE NOTED



|  |                         |
|--|-------------------------|
| PROJECT REFERENCE NO.<br><b>U-2579AB</b>                         | SHEET NO.<br><b>14A</b> |
| RW SHEET NO.   |                         |
| ROADWAY DESIGN ENGINEER  | HYDRAULICS ENGINEER     |
|  |                         |
| DOCUMENT NOT CONSIDERED FINAL<br>UNLESS ALL SIGNATURES COMPLETED |                         |

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N.C.B.E.L.S. License Number: F-0116



MATCHLINE SHEET 14  
-Y1- STA. 13+50.00

REVISIONS

**END CONSTRUCTION**  
-Y1A- Sta. 12+00.00

**353** C.D. WALKER  
PROPERTIES, LLC  
DB 3520 PG 4320

| -Y1RAI-  |  |  |
|--|--|--|
| PI Sta 10+40.88<br>$\Delta = 95^{\circ} 42' 11.1''$ (LT)<br>D = 154' 51' 12.4"<br>L = 61.80'<br>T = 40.88'<br>R = 37.00' | PI Sta 10+97.52<br>$\Delta = 87^{\circ} 58' 42.8''$ (LT)<br>D = 154' 51' 12.4"<br>L = 56.81'<br>T = 35.72'<br>R = 37.00' | PI Sta 22+69.85<br>$\Delta = 176^{\circ} 19' 06.1''$ (LT)<br>D = 154' 51' 12.4"<br>L = 113.86'<br>T = 1151.23'<br>R = 37.00' |

| -Y1-   |  |
|--|--|
| PI Sta 13+96.44<br>$\Delta = 0^{\circ} 57' 55.9''$ (LT)<br>D = 0' 57' 17.7"<br>L = 1011'<br>T = 50.56'<br>R = 6,000.00'<br>SE = NC | PI Sta 16+38.04<br>$\Delta = 4^{\circ} 02' 22.5''$ (RT)<br>D = 3' 22' 13.2"<br>L = 119.86'<br>T = 59.95'<br>R = 1,700.00'<br>SE = NC |

| -Y1A-   |
|---|
| PI Sta 11+99.53<br>$\Delta = 0^{\circ} 47' 07.7''$ (LT)<br>D = 9' 13' 13.6"<br>L = 8.52'<br>T = 4.26'<br>R = 621.40'<br>SE = NC |

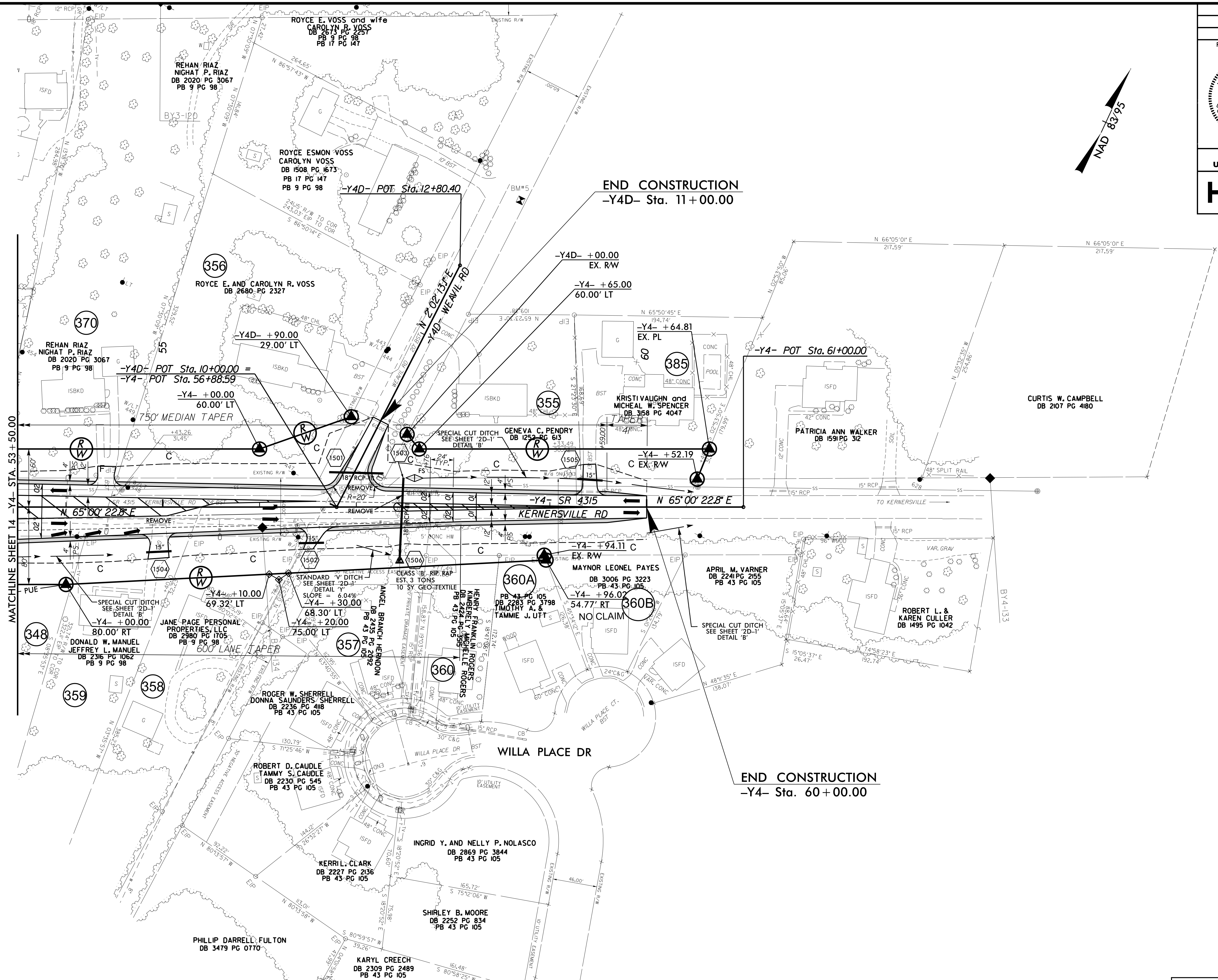
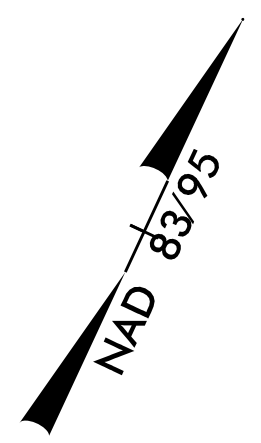
PAVED SHOULDER

**NOTES:**  
SEE SHEET 28-19 FOR INTERSECTION DETAIL  
SEE SHEET 33 FOR -Y1- PROFILE  
SEE SHEET 33 FOR -Y1A- PROFILE  
SEE SHEET 35 FOR -Y1RAI- PROFILE  
SEE SHEET 35 FOR -Y1DRI- PROFILE  
DRIVEWAY RADII 10' UNLESS OTHERWISE NOTED

PLOT DRIVER: NCDOT\_ncdot\_color\_eng\_50.plt  
USER: SPEREIRA  
DATE: 8/27/2021  
TIME: 2:06:00 PM  
FILE: \



|  |                        |
|--|------------------------|
| PROJECT REFERENCE NO.<br><b>U-2579AB</b>   | SHEET NO.<br><b>15</b> |
| RW SHEET NO.   |                        |
| ROADWAY DESIGN ENGINEER  | HYDRAULICS ENGINEER    |
|  |                        |
| <b>DOCUMENT NOT CONSIDERED FINAL<br/>UNLESS ALL SIGNATURES COMPLETED</b>   |                        |
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REVISIONS  
ROW REV. - AUGUST 6, 2021 - REVISED THE RIGHT OF WAY FROM -Y4- STA. 58+96.02 TO 60+00.00 AND REMOVED THE CLAIM FROM PARCEL 360B. RIGHT OF WAY TIES TO PARCEL LINE WITH 360A. CEH.

PLOT DRIVER: NCDOT\_color\_eng\_50.plt  
USER: SPEREIRA  
DATE: 8/27/2021  
TIME: 2:06:23 PM  
FILE: \

PAVED SHOULDER

NOTES:  
SEE SHEET 37 FOR -Y4- PROFILE  
DRIVEWAY RADII 10' UNLESS OTHERWISE NOTED



|  |                        |
|--|------------------------|
| PROJECT REFERENCE NO.<br><b>U-2579AB</b>                         | SHEET NO.<br><b>16</b> |
| RW SHEET NO.   |                        |
| ROADWAY DESIGN ENGINEER  | HYDRAULICS ENGINEER    |
|  |                        |
| DOCUMENT NOT CONSIDERED FINAL<br>UNLESS ALL SIGNATURES COMPLETED |                        |

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N.C.B.E.L.S. License Number: F-0116

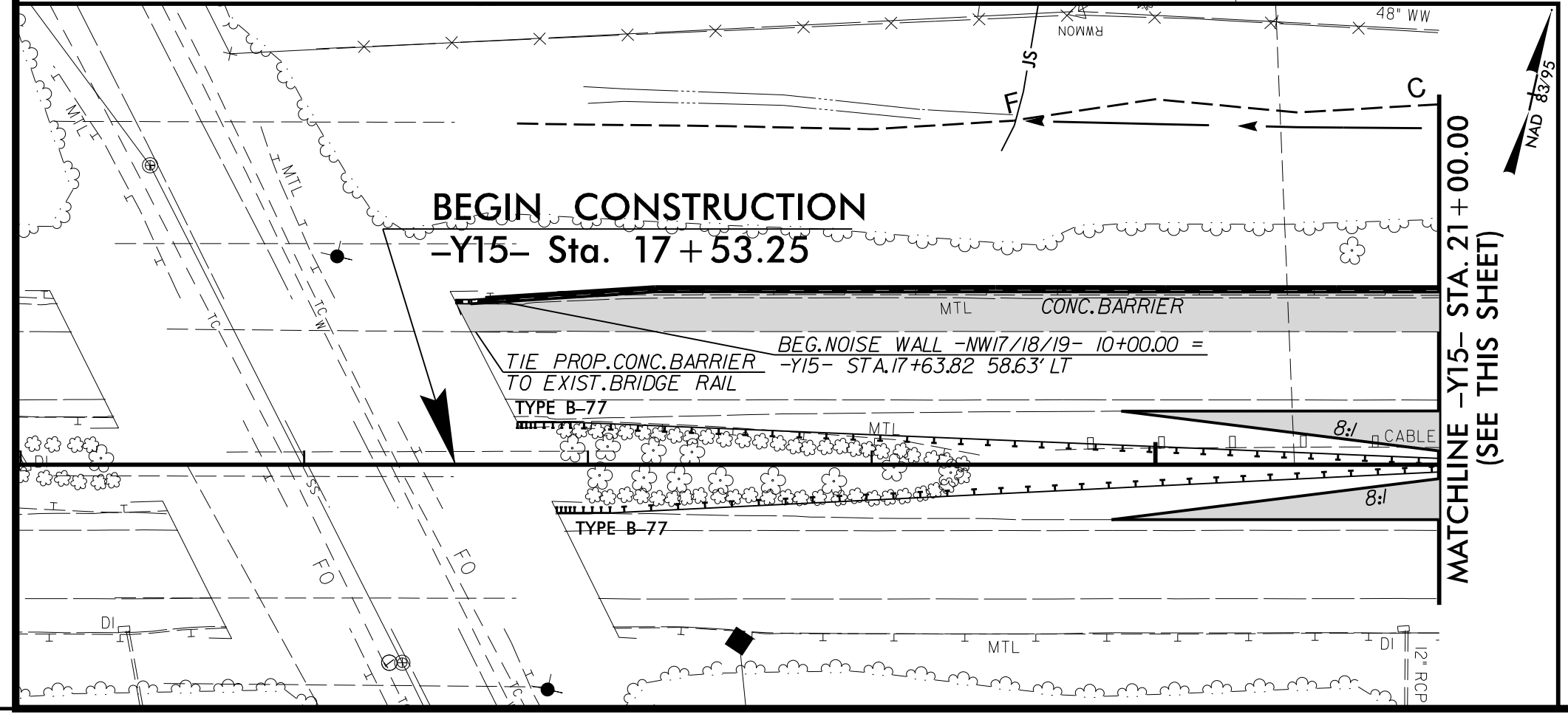
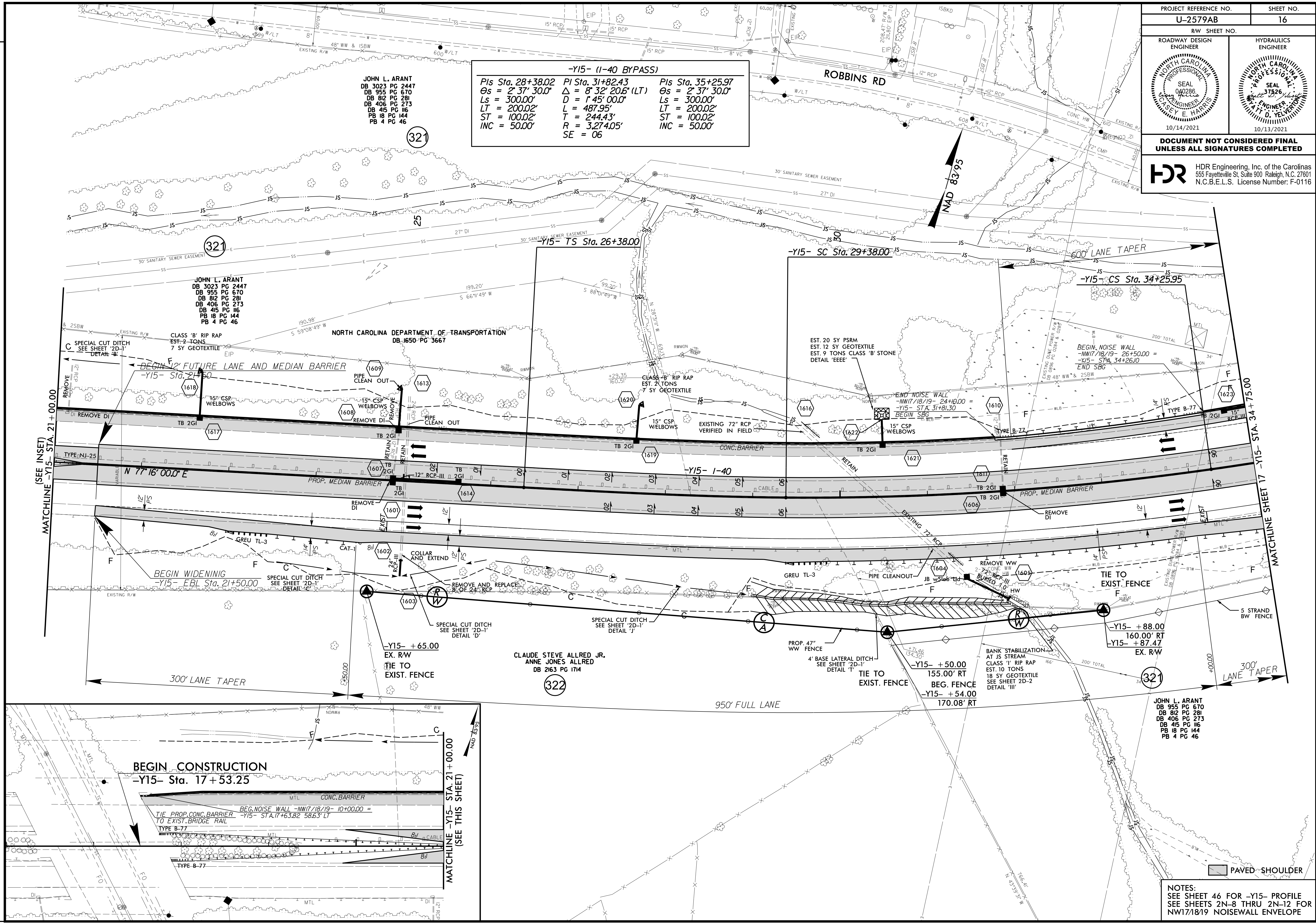
**-Y15- (I-40 BYPASS)**

|                           |                              |                           |
|---------------------------|------------------------------|---------------------------|
| PIs Sta. 28+38.02         | PI Sta. 31+82.43             | PIs Sta. 35+25.97         |
| $\Theta s = 2' 37' 30.0"$ | $\Delta = 8' 32' 20.6" (LT)$ | $\Theta s = 2' 37' 30.0"$ |
| $Ls = 300.00'$            | $D = 1' 45' 00.0"$           | $Ls = 300.00'$            |
| $LT = 200.02'$            | $L = 487.95'$                | $LT = 200.02'$            |
| $ST = 100.02'$            | $T = 244.43'$                | $ST = 100.02'$            |
| $INC = 50.00'$            | $R = 3,274.05'$              | $INC = 50.00'$            |
|                           | $SE = 06$                    |                           |

JOHN L. ARANT  
DB 3023 PG 2447  
DB 955 PG 670  
DB 812 PG 281  
DB 406 PG 273  
DB 415 PG 116  
PB 18 PG 144  
PB 4 PG 46

JOHN L. ARANT  
DB 3023 PG 2447  
DB 955 PG 670  
DB 812 PG 281  
DB 406 PG 273  
DB 415 PG 116  
PB 18 PG 144  
PB 4 PG 46

JOHN L. ARANT  
DB 955 PG 670  
DB 812 PG 281  
DB 406 PG 273  
DB 415 PG 116  
PB 18 PG 144  
PB 4 PG 46



REVISIONS

PLOT DRIVER: NCDOT\_color\_eng\_50.pht  
USER: CHARRIS  
FILE: NCDOT\NCDOT-U2579AB\6.0.CAD.BTM\6.2.Work\In\_Progress\U-2579AB\Roadway\Prj\U2579ab\_rdy\_dsh\_16.dgn

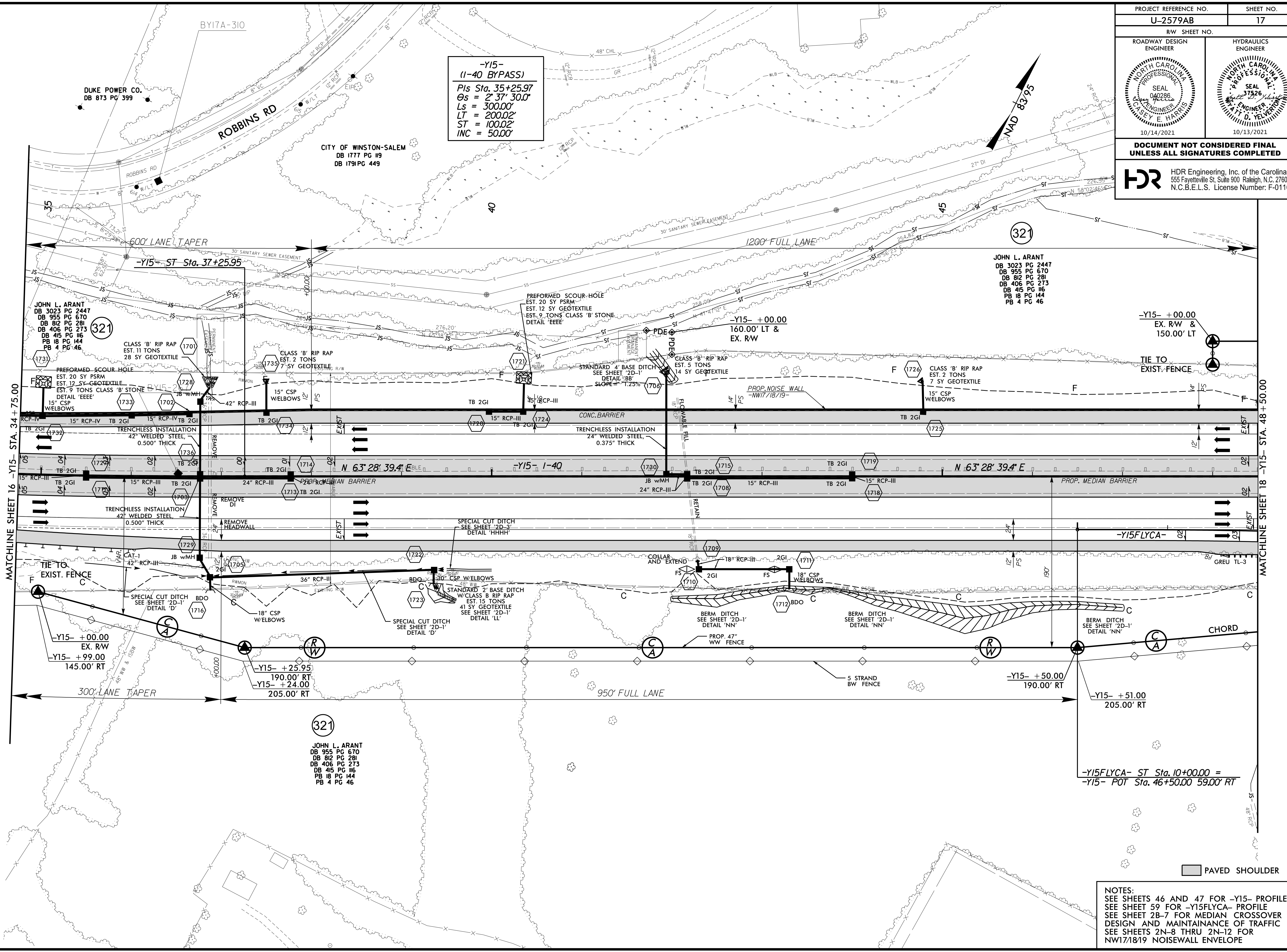
PENTABLE: NCDOT\_pshpfl\_conventional.tbi  
TIME: 1:50:28 PM  
DATE: 10/13/2021

NOTES:  
SEE SHEET 46 FOR -Y15- PROFILE  
SEE SHEETS 2N-8 THRU 2N-12 FOR  
NW17/18/19 NOISEWALL ENVELOPE



|  |                        |
|--|------------------------|
| PROJECT REFERENCE NO.<br><b>U-2579AB</b>                                 | SHEET NO.<br><b>17</b> |
| RW SHEET NO.   |                        |
| ROADWAY DESIGN ENGINEER  | HYDRAULICS ENGINEER    |
|  |                        |
| <b>DOCUMENT NOT CONSIDERED FINAL<br/>UNLESS ALL SIGNATURES COMPLETED</b> |                        |
|  |                        |

**-Y15-  
(I-40 BYPASS)**  
 Pts Sta. 35+25.97  
 $\theta_s = 2' 37'' 30.0''$   
 Ls = 300.00'  
 LT = 200.02'  
 ST = 100.02'  
 INC = 50.00'



**JOHN L. ARANT**  
 DB 3023 PG 2447  
 DB 955 PG 670  
 DB 812 PG 281  
 DB 406 PG 273  
 DB 415 PG 116  
 PB 18 PG 144  
 PB 4 PG 46

**JOHN L. ARANT**  
 DB 3023 PG 2447  
 DB 955 PG 670  
 DB 812 PG 281  
 DB 406 PG 273  
 DB 415 PG 116  
 PB 18 PG 144  
 PB 4 PG 46

**JOHN L. ARANT**  
 DB 3023 PG 2447  
 DB 955 PG 670  
 DB 812 PG 281  
 DB 406 PG 273  
 DB 415 PG 116  
 PB 18 PG 144  
 PB 4 PG 46

**NOTES:**  
 SEE SHEETS 46 AND 47 FOR -Y15- PROFILE  
 SEE SHEET 59 FOR -Y15FLYCA- PROFILE  
 SEE SHEET 28-7 FOR MEDIAN CROSSOVER  
 DESIGN AND MAINTAINANCE OF TRAFFIC  
 SEE SHEETS 2N-8 THRU 2N-12 FOR  
 NW171819 NOISEWALL ENVELOPE

REVISIONS  
 PLOT DRIVER: NCDOT\_color\_eng\_50.plt  
 USER: CHARRIS  
 FILE: NCDOT\NCDOT-U2579AB\6.0.CAD.BTM\6.2.Work\In\_Progress\U-2579AB\Roadway\Prj\U2579ab\_rdy\_dsh\_17.dgn  
 PENTABLE: NCDOT\_pshpfl.conventional.tbi  
 TIME: 145257 PM  
 DATE: 10/13/2021



DAVID R. JOHNSON  
LORRAINE JOHNSON  
DB 1222 PG 1033

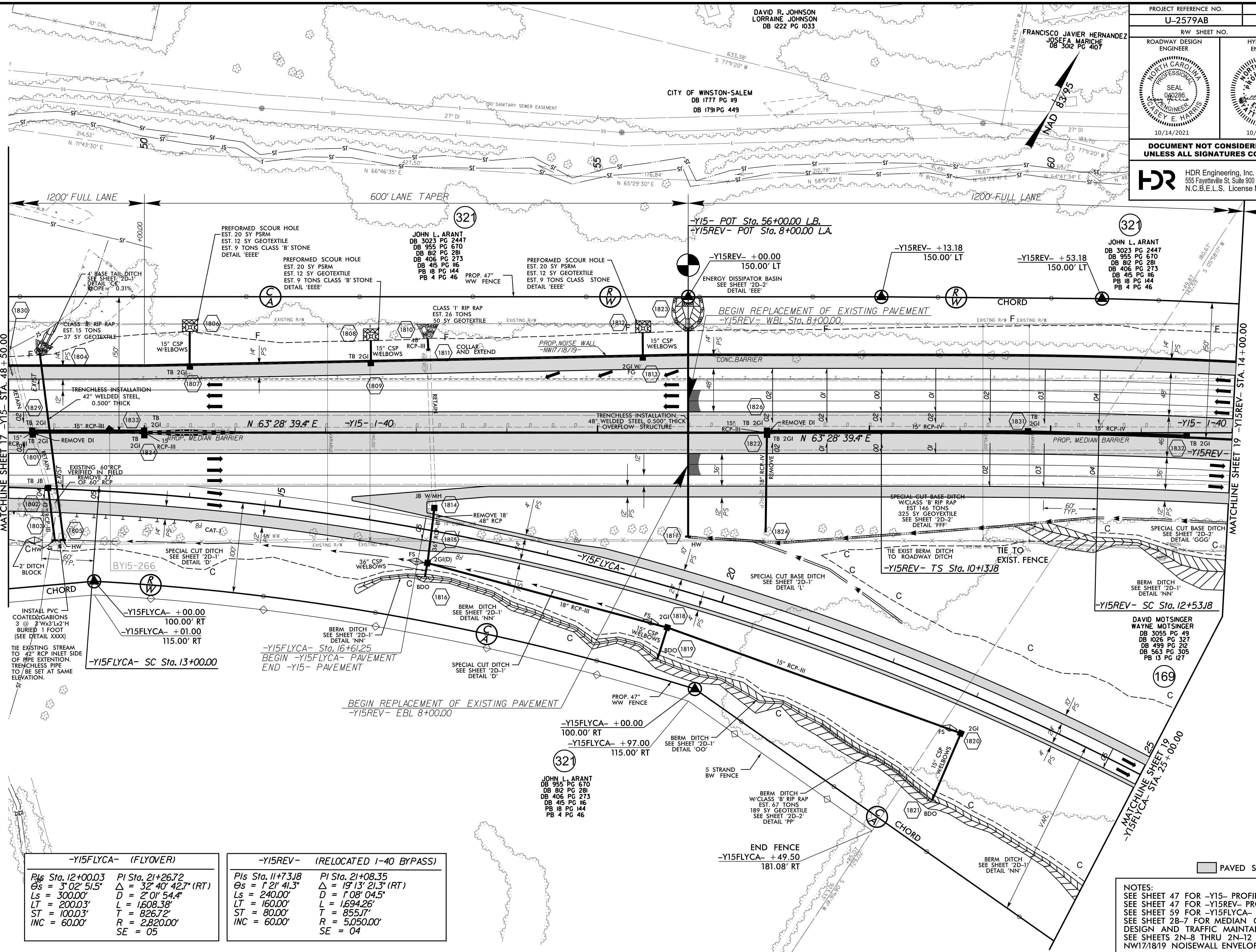
FRANCISCO JAVIER HERNANDEZ  
JOSEFA MARICHE  
DB 3012 PG 407

CITY OF WINSTON-SALEM  
DB 1777 PG 119  
DB 1791 PG 449

|  |  |
|--|--|
| PROJECT REFERENCE NO.<br><b>U-2579AB</b> | SHEET NO.<br><b>18</b>                           |
| RW SHEET NO.                             | HYDRAULICS ENGINEER                              |
| ROADWAY DESIGN ENGINEER                  | SEAL<br>040286<br>SUSSEY E. HARRIS<br>10/14/2021 |
|  | SEAL<br>37526<br>T. D. YELLEN<br>10/13/2021      |

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

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| -Y15FLYCA- (FLYOVER) |                        |
|----------------------|------------------------|
| PI Sta. 12+00.03     | PI Sta. 21+26.72       |
| Os = 3° 02' 51.5"    | Δ = 32° 40' 42.7" (RT) |
| Ls = 300.00'         | D = 2° 01' 54.4"       |
| LT = 200.03'         | L = 1608.38'           |
| ST = 100.03'         | T = 826.72'            |
| INC = 60.00'         | R = 2,820.00'          |
|                      | SE = 05                |

| -Y15REV- (RELOCATED I-40 BYPASS) |                        |
|----------------------------------|------------------------|
| PIs Sta. 11+73.8                 | PI Sta. 21+08.35       |
| Os = 1° 21' 41.3"                | Δ = 19° 13' 21.3" (RT) |
| Ls = 240.00'                     | D = 1° 08' 04.5"       |
| LT = 160.00'                     | L = 1,694.26'          |
| ST = 80.00'                      | T = 855.17'            |
| INC = 60.00'                     | R = 5,050.00'          |
|                                  | SE = 04                |

**NOTES:**  
 SEE SHEET 47 FOR -Y15- PROFILE  
 SEE SHEET 47 FOR -Y15REV- PROFILE  
 SEE SHEET 59 FOR -Y15FLYCA- PROFILE  
 SEE SHEET 2B-7 FOR MEDIAN CROSSOVER DESIGN AND TRAFFIC MAINTENANCE  
 SEE SHEETS 2N-8 THRU 2N-12 FOR NW17/18/19 NOISEWALL ENVELOPE

PLOT DRIVER: NCDOT\_color\_eng\_50.plt  
 USER: CHARRIS  
 FILE: NCDOT\NCDOT-U2579AB\6.0.CAD.BTM\6.2.Work\In\_Progress\U-2579AB\Roadway\Prj\U2579AB\_r.dwg, psh, 18.dgn  
 PENTABLE: NCDOT\_pshpfl\_conventional.tbi  
 TIME: 1:54:35 PM  
 DATE: 10/13/2021

REVISIONS



|                                  |                       |                         |                               |
|----------------------------------|-----------------------|-------------------------|-------------------------------|
| -YISREV- (RELOCATED I-40 BYPASS) |                       | -YIS- (I-40 BYPASS)     |                               |
| PI Sta. 2108.35                  | PI Sta. 3072.45       | PI Sta. 66157.43        | PI Sta. 8019.99               |
| $\Delta = 13' 2.3" (RT)$         | $\Delta = 1' 2" 4.3"$ | $\Delta = 1' 00' 0.00"$ | $\Delta = 25' 29' 20.6" (RT)$ |
| D = 108.045'                     | D = 28.000'           | D = 330.000'            | D = 170.000'                  |
| L = 1694.59'                     | L = 160.00'           | L = 133.34'             | L = 2548.91'                  |
| R = 655.000'                     | ST = 80.00'           | R = 5129.59'            | R = 1295.90'                  |
| SE = 04                          | INC = 60.00'          | ST = 66.67'             | SE = EXIST.                   |

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

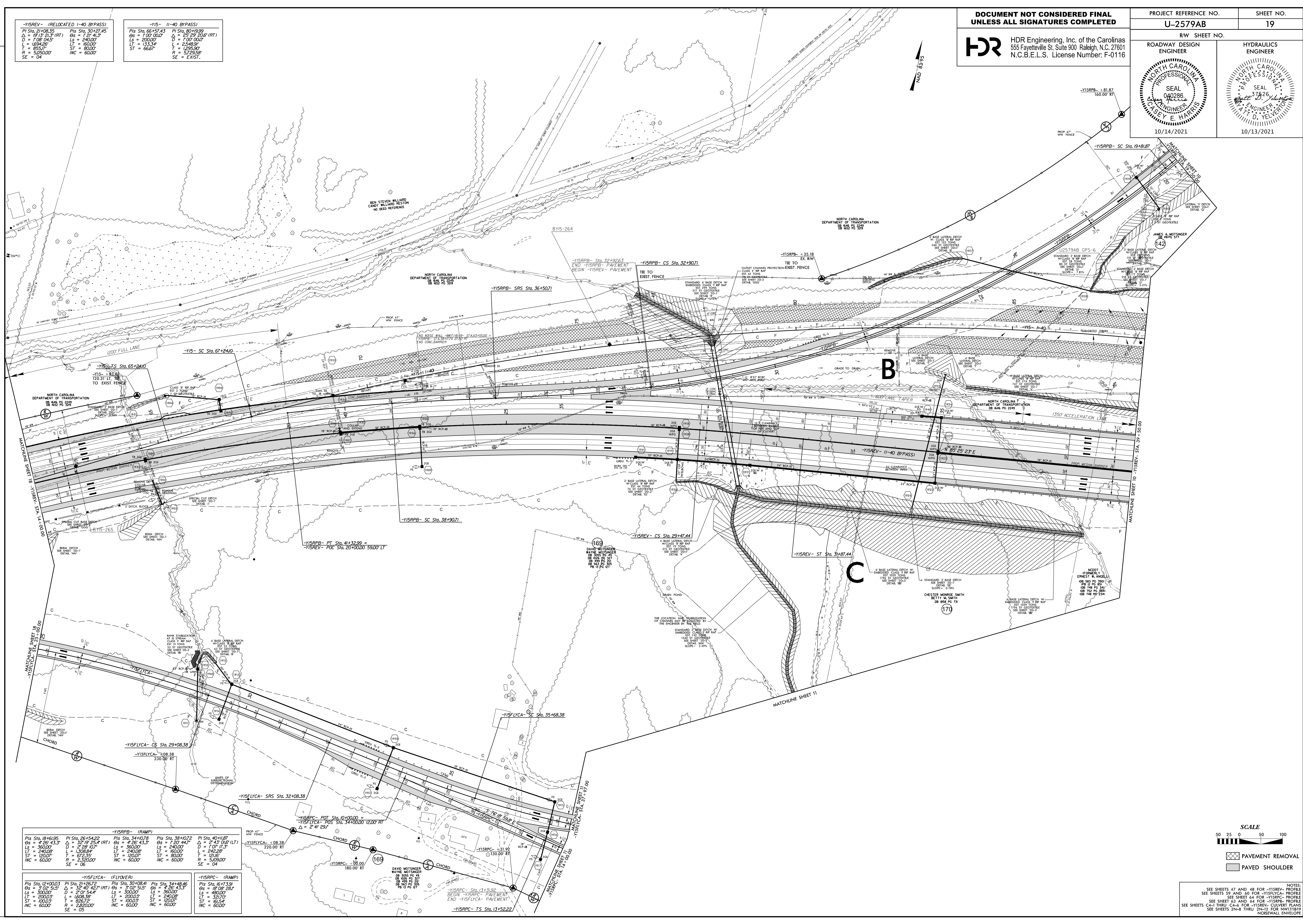
HDR Engineering, Inc. of the Carolinas  
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N.C.B.E.L.S. License Number: F-0116

PROJECT REFERENCE NO. U-2579AB  
SHEET NO. 19

RW SHEET NO.

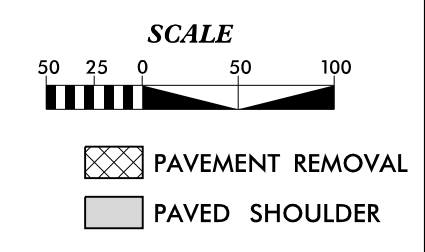
ROADWAY DESIGN ENGINEER  
NORTH CAROLINA PROFESSIONAL SEAL  
040288  
C. CASEY E. HARRIS  
10/14/2021

HYDRAULICS ENGINEER  
NORTH CAROLINA PROFESSIONAL SEAL  
37926  
D. YELDER  
10/13/2021



REVISIONS

|                         |                               |                         |                         |                              |                          |
|-------------------------|-------------------------------|-------------------------|-------------------------|------------------------------|--------------------------|
| -YISRPB- (RAMP)         |                               | -YISFLYCA- (FLYOVER)    |                         | -YISRPC- (RAMP)              |                          |
| PI Sta. 1816.95         | PI Sta. 26154.22              | PI Sta. 3410.78         | PI Sta. 3810.72         | PI Sta. 4011.87              | PI Sta. 1617.33          |
| $\Delta = 4' 26' 43.3"$ | $\Delta = 32' 19' 25.4" (RT)$ | $\Delta = 4' 26' 43.3"$ | $\Delta = 1' 02' 44.7"$ | $\Delta = 2' 43' 01.5" (LT)$ | $\Delta = 18' 08' 28.1"$ |
| D = 360.00'             | D = 2' 28' 10.7"              | D = 360.00'             | D = 240.00'             | D = 107.17'                  | D = 480.00'              |
| L = 240.08'             | L = 308.84'                   | L = 240.08'             | L = 160.00'             | L = 242.28'                  | L = 321.00'              |
| ST = 120.00'            | T = 672.35'                   | ST = 120.00'            | ST = 80.00'             | T = 121.84'                  | ST = 69.54'              |
| INC = 60.00'            | R = 2320.00'                  | INC = 60.00'            | INC = 60.00'            | R = 5109.00'                 | INC = 60.00'             |
| SE = 06                 | SE = 06                       | SE = 04                 | SE = 04                 | SE = 04                      | SE = 04                  |



NOTES:  
 SEE SHEETS 47 AND 48 FOR -YISREV- PROFILE  
 SEE SHEETS 59 AND 60 FOR -YISFLYCA- PROFILE  
 SEE SHEET 64 FOR -YISRPC- PROFILE  
 SEE SHEETS 63 AND 64 FOR -YISRPB- PROFILE  
 SEE SHEETS C4-1 THRU C4-6 FOR -YISREV- CULVERT PLANS  
 SEE SHEETS 2N-8 THRU 2N-12 FOR RW/1710 NOISEWALL ENVELOPE

PLOT DRIVER: NCDOT\_color\_eng\_100.plt  
 USER: SPEREIRA  
 PENTABLE: NCDOT\_pshp.plt  
 DATE: 8/27/2021  
 TIME: 2:12:33 PM



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

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N.C.B.E.L.S. License Number: F-0116



REVISIONS

PLOT DRIVER: NCDOT\_pshp\_color\_eng\_100.plt  
 USER: CHARRIS  
 FILE: NCDOT\NCDOT-U2579AB\6.0.CAD.BTM\6.2.Work.In\_Progress\U-2579AB\Roadway\Proj\U2579AB\_rdy\_dsh\_20.dgn

**-YISREV- (RELOCATED I-40 BYPASS)**

|                   |                   |                   |
|-------------------|-------------------|-------------------|
| Pis Sta. 69+22.62 | Pis Sta. 74+07.12 | Pis Sta. 78+99.20 |
| Es = 0.32 0.72    | Es = 0.32 0.72    | Es = 0.32 0.72    |
| Ls = 200.00       | Ls = 200.00       | Ls = 200.00       |
| LT = 133.33       | LT = 133.33       | LT = 133.33       |
| ST = 66.67        | ST = 66.67        | ST = 66.67        |
| INC = 100.00      | INC = 100.00      | INC = 100.00      |
| SE = 02           | SE = 02           | SE = 04           |

**-YISFLYC- (FLYOVER)**

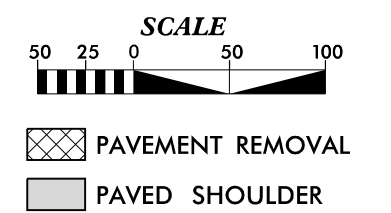
|                   |                   |                   |
|-------------------|-------------------|-------------------|
| Pis Sta. 07+80.65 | Pis Sta. 21+80.40 | Pis Sta. 54+77.32 |
| Es = 4.26 43.3    | Es = 1.52 42.8    | Es = 82.37 38.4   |
| Ls = 360.00       | Ls = 240.00       | Ls = 131.50       |
| LT = 240.00       | LT = 160.00       | LT = 52.78        |
| ST = 80.00        | ST = 80.00        | ST = 3.26         |
| INC = 60.00       | INC = 60.00       | INC = 3.66        |
| SE = 02           | SE = 04           | SE = 04           |

**-YISFLYB- (FLYOVER)**

|                   |                   |                   |                   |
|-------------------|-------------------|-------------------|-------------------|
| Pis Sta. 75+77.52 | Pis Sta. 85+77.52 | Pis Sta. 95+95.95 | Pis Sta. 23+16.47 |
| Es = 3.02 54.1    | Es = 3.02 54.1    | Es = 3.02 54.1    | Es = 10.08 28.7   |
| Ls = 300.00       | Ls = 240.00       | Ls = 300.00       | Ls = 480.00       |
| LT = 200.00       | LT = 140.00       | LT = 200.00       | LT = 320.00       |
| ST = 100.00       | ST = 90.00        | ST = 100.00       | ST = 165.4        |
| INC = 60.00       | INC = 60.00       | INC = 60.00       | INC = 60.00       |
| SE = 02           | SE = 02           | SE = 02           | SE = 04           |


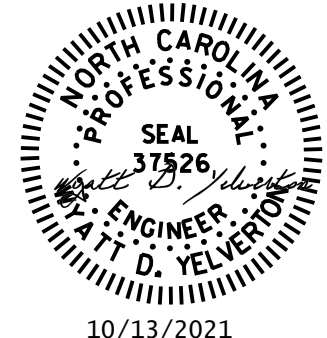

**-YISRPRA- (RAMP)**

|                   |                   |                   |                   |
|-------------------|-------------------|-------------------|-------------------|
| Pis Sta. 10+97.14 | Pis Sta. 12+85.91 | Pis Sta. 38+99.44 | Pis Sta. 49+32.54 |
| Es = 24.55 37.0   | Es = 27.30 01.5   | Es = 48.08 45.7   | Es = 4.26 43.3    |
| Ls = 300.00       | Ls = 19.29 03.9   | Ls = 154.50       | Ls = 240.00       |
| LT = 17.37        | LT = 43.59        | LT = 103.25       | LT = 120.00       |
| ST = 71.83        | ST = 13.4         | ST = 123.50       | ST = 120.00       |
| INC = 32.00       | INC = 30.00       | INC = 61.50       | INC = 60.00       |
| SE = 02           | SE = 06           | SE = 06           | SE = 06           |



NOTES:  
 SEE SHEETS 49 AND 50 FOR -YISREV- PROFILE  
 SEE SHEETS 52 AND 53 FOR -YISFLYC- PROFILE  
 SEE SHEETS 57 AND 58 FOR -YISFLYB- PROFILE  
 SEE SHEET 63 FOR -YISRPRA- PROFILE  
 SEE SHEETS 65 AND 66 FOR -YISRPDR- PROFILE  
 SEE SHEET 28-B FOR MEDIAN CROSSOVER  
 DESIGN AND TRAFFIC MAINTENANCE  
 SEE SHEETS 28-A THRU 28-F FOR NW1516  
 NOISEWALL ENVELOPE  
 SEE SHEETS 28-A THRU 28-F FOR NW1516  
 NOISEWALL ENVELOPE



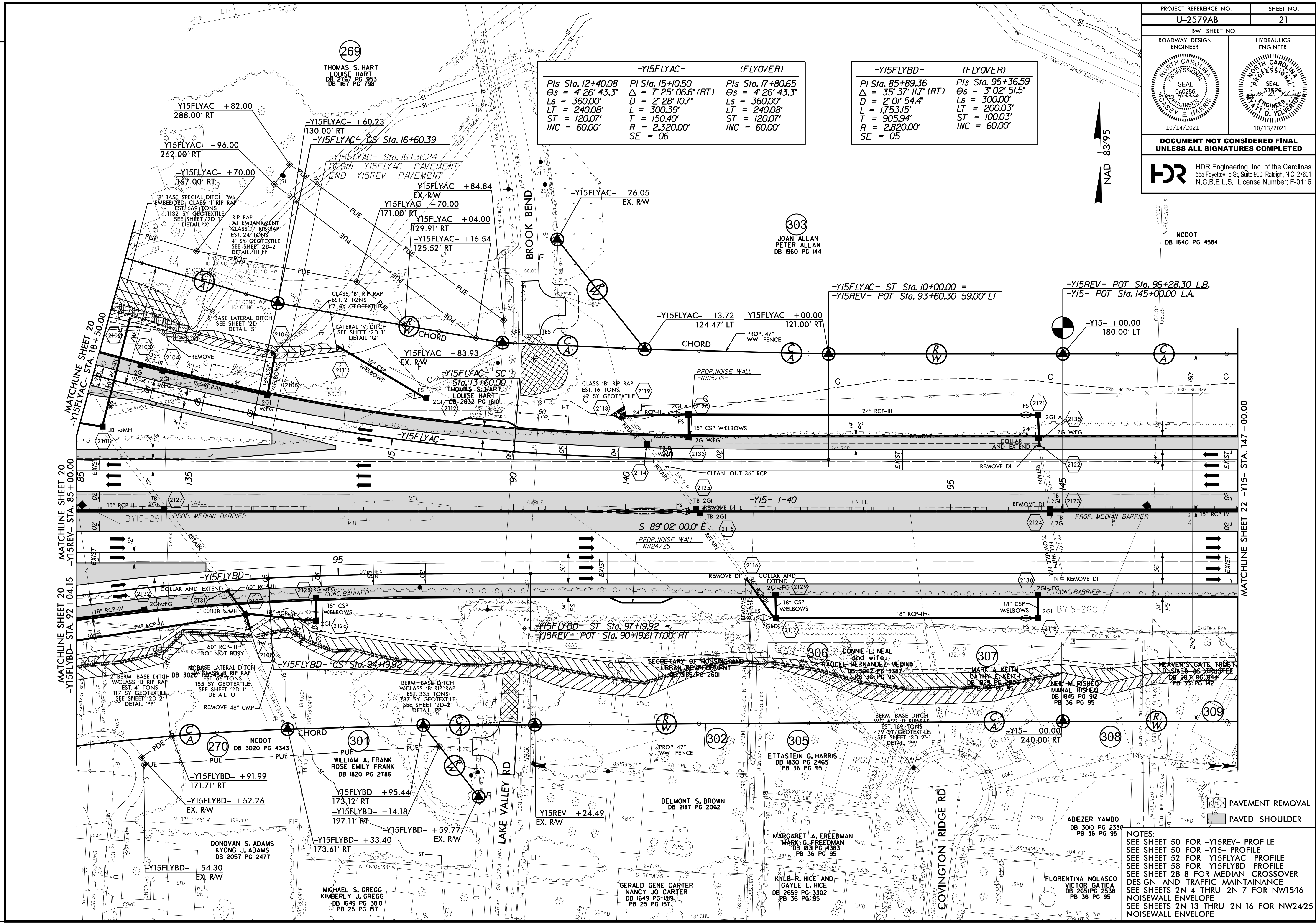
|   |  |   |  |
|---|--|---|--|
| PROJECT REFERENCE NO.<br><b>U-2579AB</b>  |  | SHEET NO.<br><b>21</b>  |  |
| RW SHEET NO.  |  | HYDRAULICS ENGINEER   |  |
| ROADWAY DESIGN ENGINEER   |  | HYDRAULICS ENGINEER   |  |
|    |  |  |  |
| <b>DOCUMENT NOT CONSIDERED FINAL<br/>UNLESS ALL SIGNATURES COMPLETED</b>  |  |   |  |
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**-Y15FLYAC- (FLYOVER)**

|                           |                              |
|---------------------------|------------------------------|
| Pls Sta. 12+40.08         | Pls Sta. 15+10.50            |
| $\Theta_s = 4' 26' 43.3"$ | $\Delta = 7' 25' 06.6" (RT)$ |
| $L_s = 360.00'$           | $D = 2' 28' 10.7"$           |
| $LT = 240.08'$            | $L = 300.39'$                |
| $ST = 120.07'$            | $T = 150.40'$                |
| $INC = 60.00'$            | $R = 2,320.00'$              |
|                           | $SE = 06$                    |

**-Y15FLYBD- (FLYOVER)**

|                               |                           |
|-------------------------------|---------------------------|
| Pls Sta. 85+89.36             | Pls Sta. 95+36.59         |
| $\Delta = 35' 37' 11.7" (RT)$ | $\Theta_s = 3' 02' 51.5"$ |
| $D = 2' 01' 54.4"$            | $L_s = 300.00'$           |
| $L = 1,753.15'$               | $LT = 200.03'$            |
| $T = 905.94'$                 | $ST = 100.03'$            |
| $R = 2,820.00'$               | $INC = 60.00'$            |
| $SE = 05$                     |                           |



**NOTES:**

- SEE SHEET 50 FOR -Y15REV- PROFILE
- SEE SHEET 50 FOR -Y15- PROFILE
- SEE SHEET 52 FOR -Y15FLYAC- PROFILE
- SEE SHEET 58 FOR -Y15FLYBD- PROFILE
- SEE SHEET 28-8 FOR MEDIAN CROSSOVER DESIGN AND TRAFFIC MAINTAINANCE
- SEE SHEETS 2N-4 THRU 2N-7 FOR NW15/16 NOISEWALL ENVELOPE
- SEE SHEETS 2N-13 THRU 2N-16 FOR NW24/25 NOISEWALL ENVELOPE

PLOT DRIVER: NCDOT\_pdf\_color\_eng\_50.plt  
 USER: CHARRIS  
 DATE: 10/13/2021  
 TIME: 1:56:02 PM  
 FILE: NCDOT\NCDOT-U2579AB\6.0.CAD.BTM\6.2.Wor\k.In\_Progress\U-2579AB\Roadway\Prj\U2579ab\_rdy.dsh.21.dgn

MATCHLINE SHEET 20  
 -Y15FLYAC- STA. 18+50.00  
 MATCHLINE SHEET 20  
 -Y15REV- STA. 85+00.00  
 MATCHLINE SHEET 20  
 -Y15FLYBD- STA. 92+04.15  
 MATCHLINE SHEET 22  
 -Y15- STA. 147+00.00

REVISIONS

NAD 83 95

MATCHLINE SHEET 22 -Y15- STA. 147+00.00







|  |                        |
|--|------------------------|
| PROJECT REFERENCE NO.<br><b>U-2579AB</b> | SHEET NO.<br><b>23</b> |
| RW SHEET NO.                             |                        |
| ROADWAY DESIGN ENGINEER                  | HYDRAULICS ENGINEER    |
|  |                        |

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

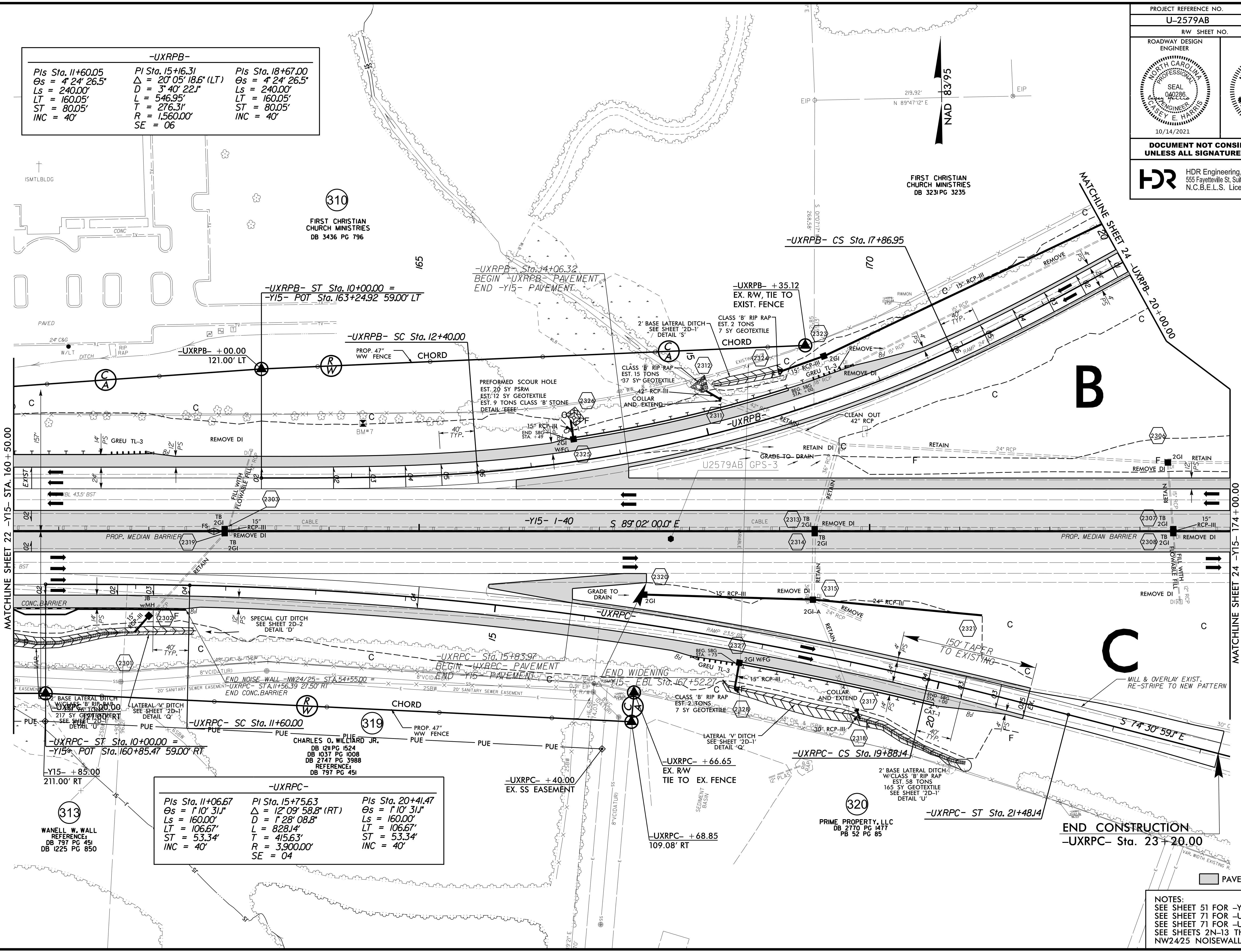
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**-UXRPB-**

|                           |                               |                           |
|---------------------------|-------------------------------|---------------------------|
| Pls Sta. 11+60.05         | Pl Sta. 15+16.31              | Pls Sta. 18+67.00         |
| $\Theta s = 4' 24' 26.5"$ | $\Delta = 20' 05' 18.6" (LT)$ | $\Theta s = 4' 24' 26.5"$ |
| $Ls = 240.00'$            | $D = 3' 40' 22.1"$            | $Ls = 240.00'$            |
| $LT = 160.05'$            | $L = 546.95'$                 | $LT = 160.05'$            |
| $ST = 80.05'$             | $T = 276.31'$                 | $ST = 80.05'$             |
| $INC = 40'$               | $R = 1,560.00'$               | $INC = 40'$               |
|                           | $SE = 06$                     |                           |

**-UXRPC-**

|                           |                               |                           |
|---------------------------|-------------------------------|---------------------------|
| Pls Sta. 11+06.67         | Pl Sta. 15+75.63              | Pls Sta. 20+41.47         |
| $\Theta s = 1' 10' 31.1"$ | $\Delta = 12' 09' 58.8" (RT)$ | $\Theta s = 1' 10' 31.1"$ |
| $Ls = 160.00'$            | $D = 1' 28' 08.8"$            | $Ls = 160.00'$            |
| $LT = 106.67'$            | $L = 828.14'$                 | $LT = 106.67'$            |
| $ST = 53.34'$             | $T = 415.63'$                 | $ST = 53.34'$             |
| $INC = 40'$               | $R = 3,900.00'$               | $INC = 40'$               |
|                           | $SE = 04$                     |                           |



REVISIONS

PLOT DRIVER: NCDOT\_color\_eng\_50.plt  
 USER: SPEREIRA  
 FILE: \

PENTABLE: NCDOT\_pshpfl.conventional.tbl  
 TIME: 11:23:38 AM  
 DATE: 9/15/2021

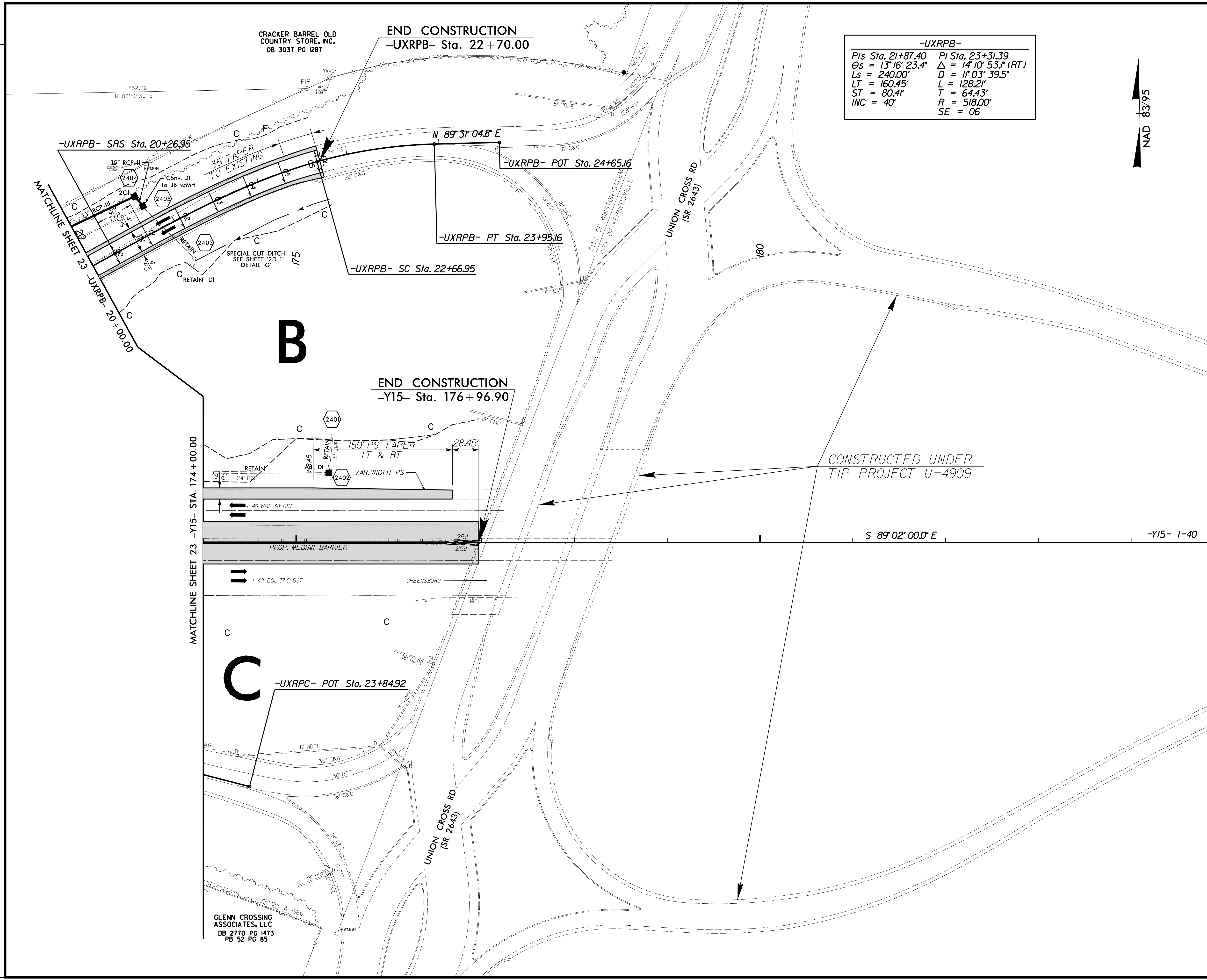
**NOTES:**  
 SEE SHEET 51 FOR -Y15- PROFILE  
 SEE SHEET 71 FOR -UXRPB- PROFILE  
 SEE SHEET 71 FOR -UXRPC- PROFILE  
 SEE SHEETS 2N-13 THRU 2N-16 FOR  
 NW2425 NOISEWALL ENVELOPE

PAVED SHOULDER



|   |  |                     |  |
|---|--|---------------------|--|
| PROJECT REFERENCE NO.   |  | SHEET NO.           |  |
| U-2579AB  |  | 24                  |  |
| RW SHEET NO.  |  |                     |  |
| ROADWAY DESIGN ENGINEER   |  | HYDRAULICS ENGINEER |  |
|   |  |                     |  |
| DOCUMENT NOT CONSIDERED FINAL<br>UNLESS ALL SIGNATURES COMPLETED  |  |                     |  |
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| -UXRPB-                         |                                    |
|---------------------------------|------------------------------------|
| Pls Sta. 21+87.40               | PI Sta. 23+31.39                   |
| $\theta_s = 13^\circ 16' 23.4"$ | $\Delta = 14^\circ 10' 53.1" (RT)$ |
| $L_s = 240.00'$                 | $D = 11^\circ 03' 39.5"$           |
| $LT = 160.45'$                  | $L = 128.21'$                      |
| $ST = 80.41'$                   | $T = 64.43'$                       |
| $INC = 40'$                     | $R = 518.00'$                      |
|                                 | $SE = 06$                          |



REVISIONS

PLOT DRIVER: NCDOT\_color\_eng\_50.plt  
 USER: SPEREIRA  
 FILE: \

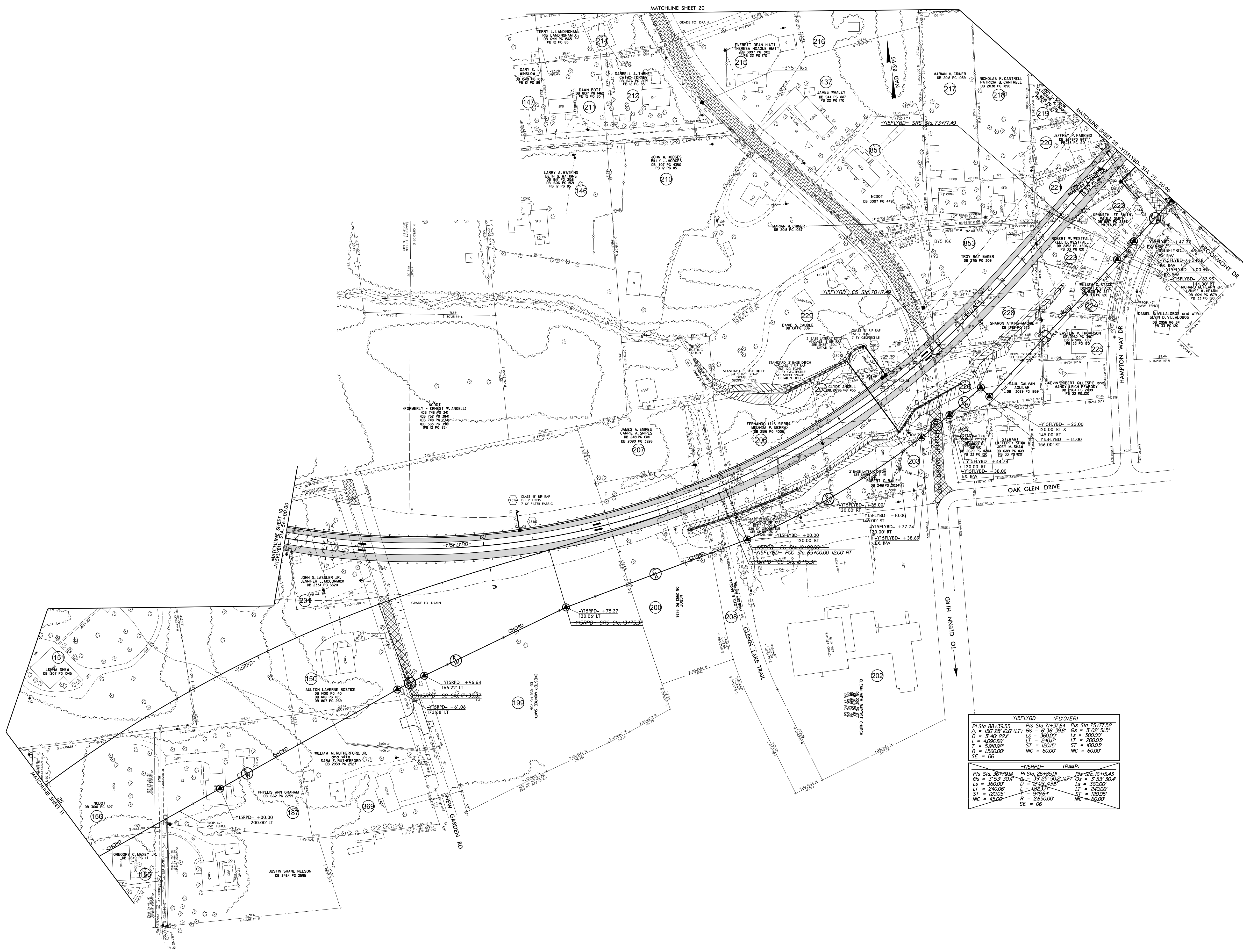
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 DATE: 8/27/2021  
 TIME: 2:09:10 PM

PAVED SHOULDER

NOTES:  
 SEE SHEET 51 FOR -Y15- PROFILE  
 SEE SHEET 71 FOR -UXRPB- PROFILE



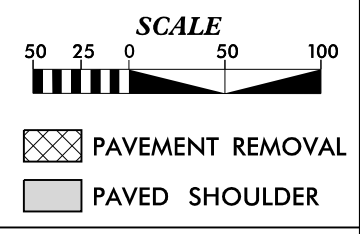
|   |  |                        |  |
|---|--|------------------------|--|
| PROJECT REFERENCE NO.<br><b>U-2579AB</b>  |  | SHEET NO.<br><b>25</b> |  |
| RW SHEET NO.  |  |                        |  |
| ROADWAY DESIGN<br>ENGINEER  |  | HYDRAULICS<br>ENGINEER |  |
|   |  |                        |  |
| DOCUMENT NOT CONSIDERED FINAL<br>UNLESS ALL SIGNATURES COMPLETED  |  |                        |  |
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| -YISFLYBD- (FLYOVER) |                          |                     |
|----------------------|--------------------------|---------------------|
| PI Sta. 88+39.55     | PI Sta. 71+37.64         | PI Sta. 75+77.50    |
| Δ = 157.28 (25' LT)  | Δ = 6.36 (35' ST)        | Δ = 3.02 (5' ST)    |
| D = 3' 40" (22')     | Ls = 360.00'             | Ls = 300.00'        |
| L = 4296.86'         | LT = 240.00'             | LT = 200.00'        |
| T = 539.52'          | ST = 120.00'             | ST = 100.00'        |
| R = 1560.00'         | INC = 60.00'             | INC = 60.00'        |
| SE = 06              |                          |                     |
| -YISBPO- (RAMP)      |                          |                     |
| PI Sta. 36+99.44     | PI Sta. 26+85.01         | PI Sta. 16+15.43    |
| Δs = 3' 53" (30.4')  | Δ = 37' 25" (50.2' LEFT) | Δs = 3' 53" (30.4') |
| Ls = 360.00'         | D = 250.435'             | Ls = 360.00'        |
| LT = 240.00'         | L = 168.77'              | LT = 240.00'        |
| ST = 120.00'         | T = 99.514'              | ST = 120.00'        |
| INC = 45.00'         | R = 2650.00'             | INC = 60.00'        |
| SE = 06              |                          |                     |


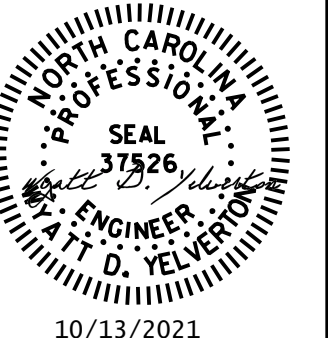
REVISIONS

PLOT DRIVER: NCDOT\_color\_eng\_100.plt  
 USER: SPEREIRA  
 DATE: 8/27/2021  
 TIME: 2:13:20 PM  
 FILE: \



NOTES:  
SEE SHEET 57 FOR -YISFLYBD- PROFILE

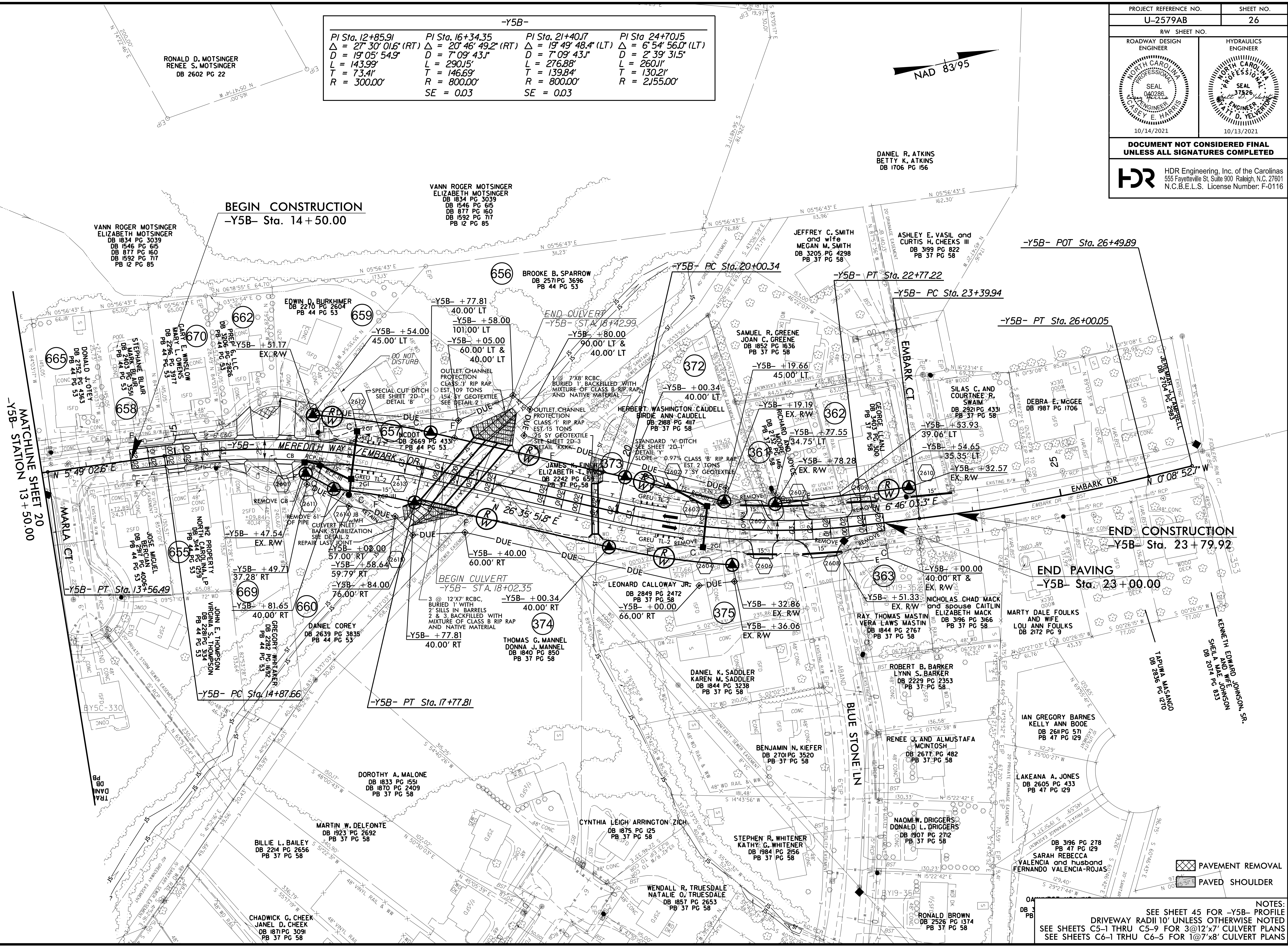
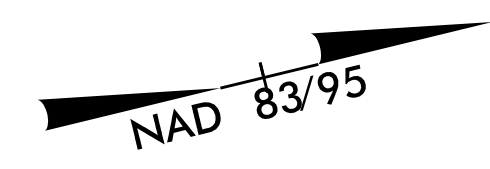


|   |  |   |  |
|---|--|---|--|
| PROJECT REFERENCE NO.<br><b>U-2579AB</b>  |  | SHEET NO.<br><b>26</b>  |  |
| ROADWAY DESIGN ENGINEER   |  | HYDRAULICS ENGINEER   |  |
|  |  |  |  |
| 10/14/2021  |  | 10/13/2021  |  |

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

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| -Y5B-   |  |  |  |
|---|--|--|--|
| PI Sta. 12+85.91<br>Δ = 27° 30' 01.6" (RT)<br>D = 19° 05' 54.9"<br>L = 143.99'<br>T = 73.41'<br>R = 300.00' | PI Sta. 16+34.35<br>Δ = 20° 46' 49.2" (RT)<br>D = 7° 09' 43.1"<br>L = 290.15'<br>T = 146.69'<br>R = 800.00'<br>SE = 0.03 | PI Sta. 21+40.17<br>Δ = 19° 49' 48.4" (LT)<br>D = 7° 09' 43.1"<br>L = 276.88'<br>T = 139.84'<br>R = 800.00'<br>SE = 0.03 | PI Sta. 24+70.15<br>Δ = 6° 54' 56.0" (LT)<br>D = 2° 39' 31.5"<br>L = 260.11'<br>T = 130.21'<br>R = 2,155.00' |




MATCHLINE SHEET 20  
-Y5B- STATION 13+50.00

END CONSTRUCTION  
-Y5B- Sta. 23+79.92

END PAVING  
-Y5B- Sta. 23+00.00

 PAVEMENT REMOVAL


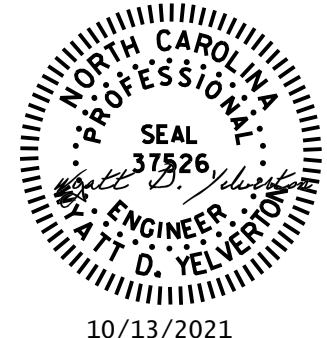

 PAVED SHOULDER

NOTES:  
SEE SHEET 45 FOR -Y5B- PROFILE  
DRIVEWAY RADII 10' UNLESS OTHERWISE NOTED  
SEE SHEETS C5-1 THRU C5-9 FOR 3@12'x7' CULVERT PLANS  
SEE SHEETS C6-1 THRU C6-5 FOR 1@7'x8' CULVERT PLANS

REVISIONS

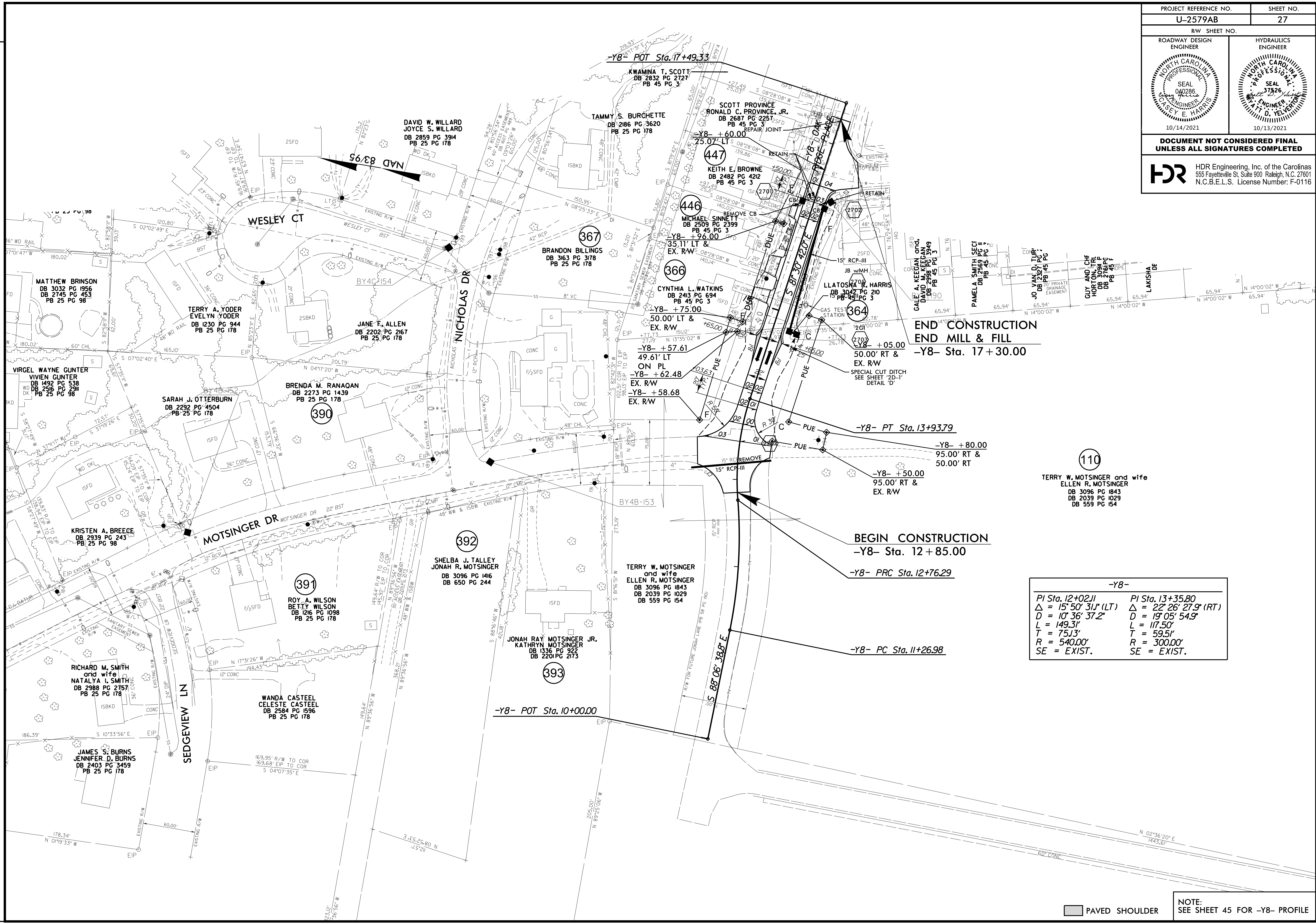
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USER: SPEREIRA  
DATE: 8/27/2021  
TIME: 2:09:33 PM  
FILE: \



|   |  |   |  |
|---|--|---|--|
| PROJECT REFERENCE NO.<br><b>U-2579AB</b>  |  | SHEET NO.<br><b>27</b>  |  |
| RW SHEET NO.  |  |   |  |
| ROADWAY DESIGN<br>ENGINEER  |  | HYDRAULICS<br>ENGINEER  |  |
|    |  |  |  |
| DOCUMENT NOT CONSIDERED FINAL<br>UNLESS ALL SIGNATURES COMPLETED  |  |   |  |
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REVISIONS  
ROW REV. - AUGUST 6, 2021 - EXISTING UTILITY EASEMENT CONVERTED TO PROPOSED DUE ON PARCELS 366 AND 446. TCE ADDED TO PARCELS 446 AND 447 (NEW CLAIMS). CEH.

PLOT DRIVER: NCDOT\_ncdot\_eng\_50.plt  
USER: SPEREIRA  
DATE: 9/15/2021  
TIME: 11:24:02 AM  
FILE: \



**END CONSTRUCTION**  
**END MILL & FILL**  
-Y8- Sta. 17+30.00

-Y8- PT Sta. 13+93.79

-Y8- +80.00  
95.00' RT &  
50.00' RT

-Y8- +50.00  
95.00' RT &  
EX. RW

**BEGIN CONSTRUCTION**  
-Y8- Sta. 12+85.00

-Y8- PRC Sta. 12+76.29

-Y8- PC Sta. 11+26.98

|                              |                              |
|------------------------------|------------------------------|
| -Y8-                         |                              |
| PI Sta. 12+02.11             | PI Sta. 13+35.80             |
| $\Delta = 15' 50' 31''$ (LT) | $\Delta = 22' 26' 27''$ (RT) |
| $D = 10' 36' 37.2''$         | $D = 19' 05' 54.9''$         |
| $L = 149.31'$                | $L = 117.50'$                |
| $T = 75.13'$                 | $T = 59.51'$                 |
| $R = 540.00'$                | $R = 300.00'$                |
| $SE = EXIST.$                | $SE = EXIST.$                |

**110**

TERRY W. MOTSINGER and wife  
ELLEN R. MOTSINGER  
DB 3096 PG 1843  
DB 2039 PG 1029  
DB 559 PG 154

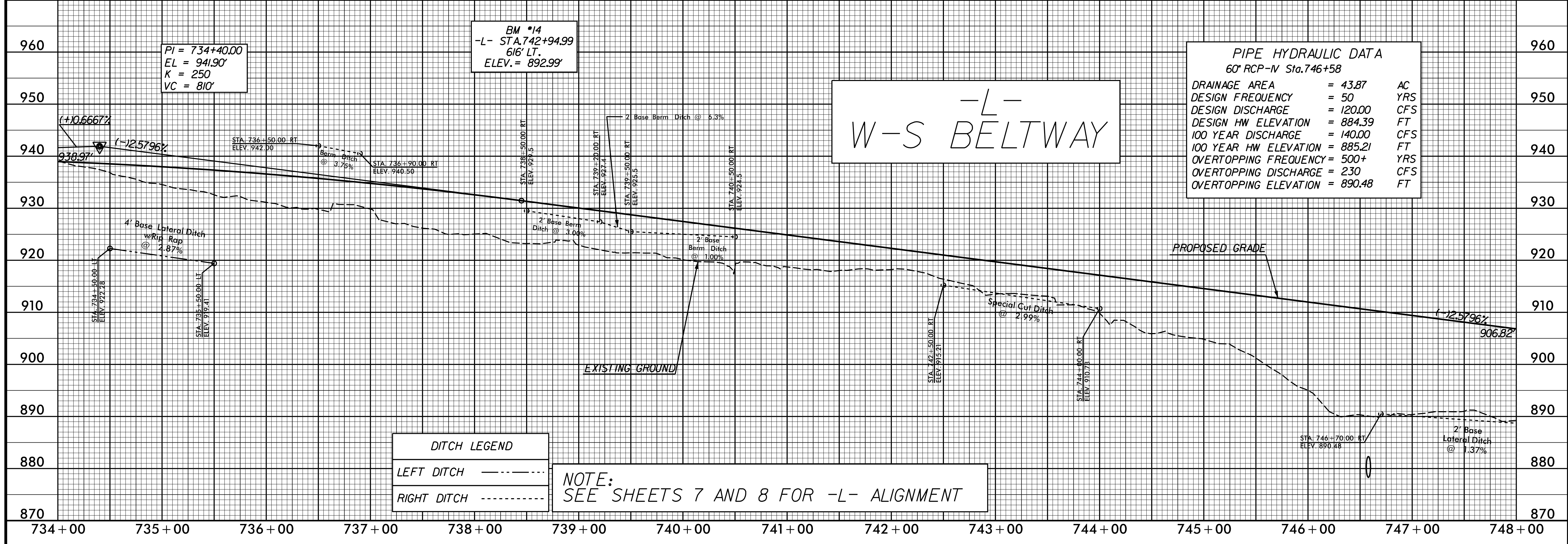
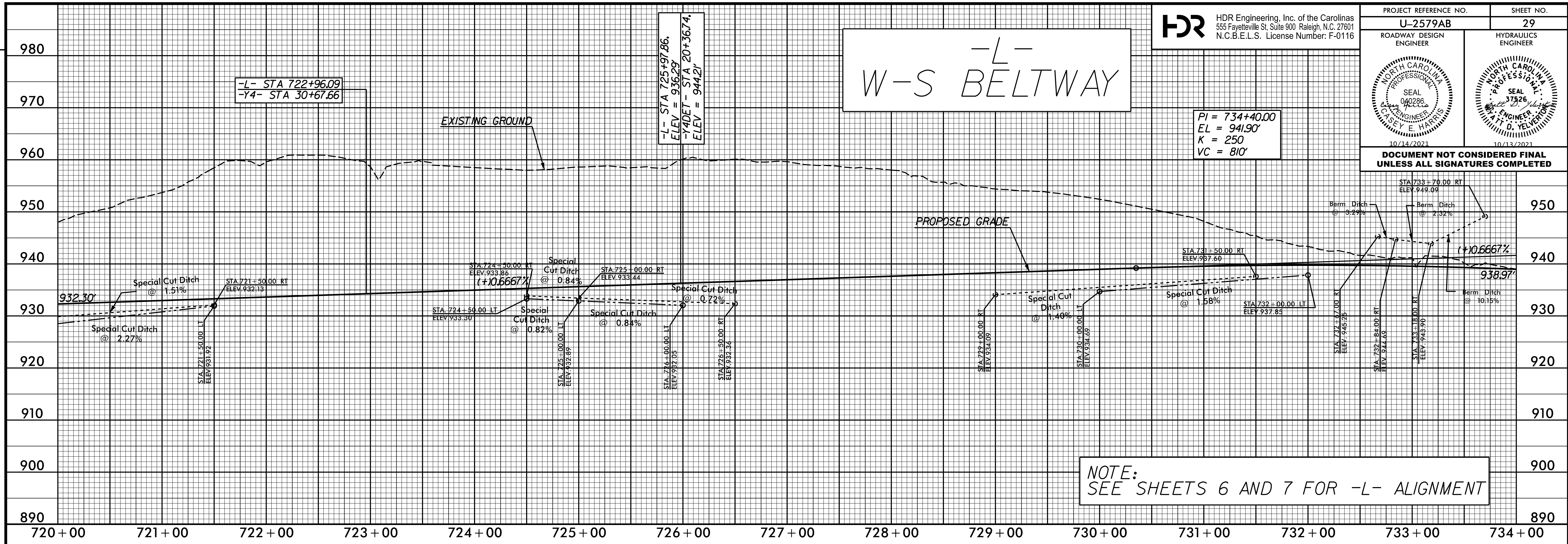
 PAVED SHOULDER

NOTE:  
SEE SHEET 45 FOR -Y8- PROFILE





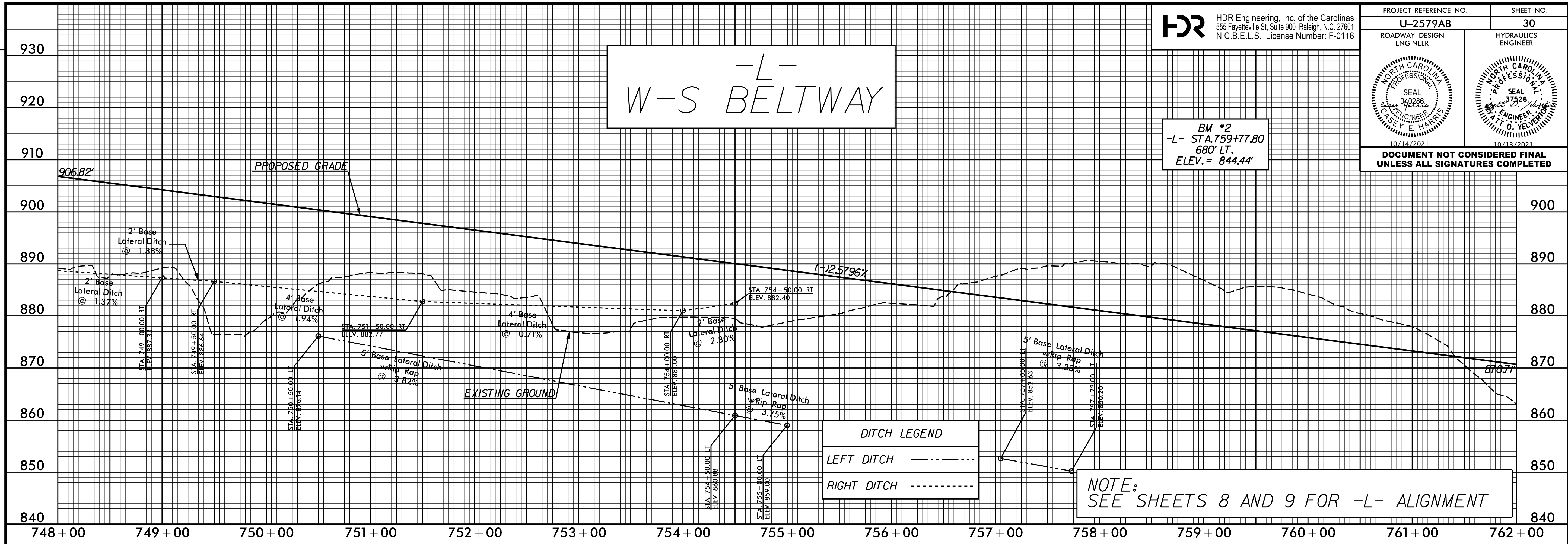




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 TIME: 3:18:38 PM  
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REVISIONS





-L-  
W-S BELTWAY

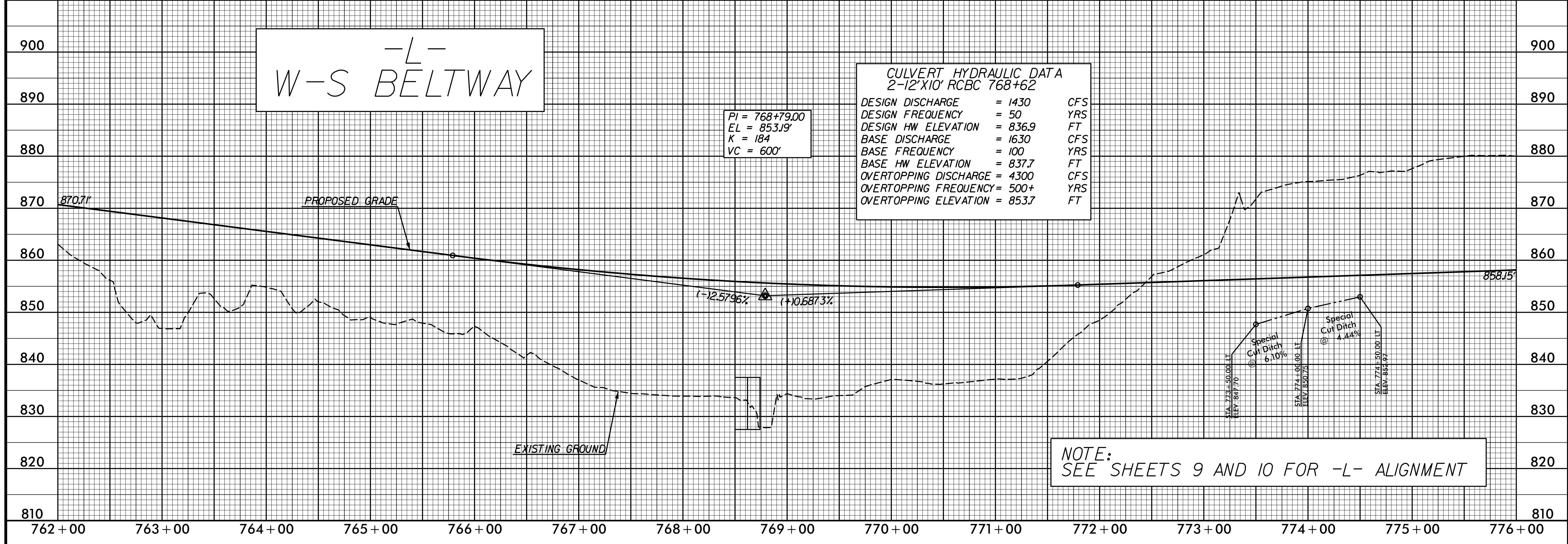
BM #2  
-L- STA 759+77.80  
680' LT.  
ELEV. = 844.44'

**DITCH LEGEND**

LEFT DITCH - - - - -

RIGHT DITCH - - - - -

NOTE:  
SEE SHEETS 8 AND 9 FOR -L- ALIGNMENT



-L-  
W-S BELTWAY

PI = 768+79.00  
EL = 853.19'  
K = 184  
VC = 600'

**CULVERT HYDRAULIC DATA**  
2-12'x10' RCBC 768+62

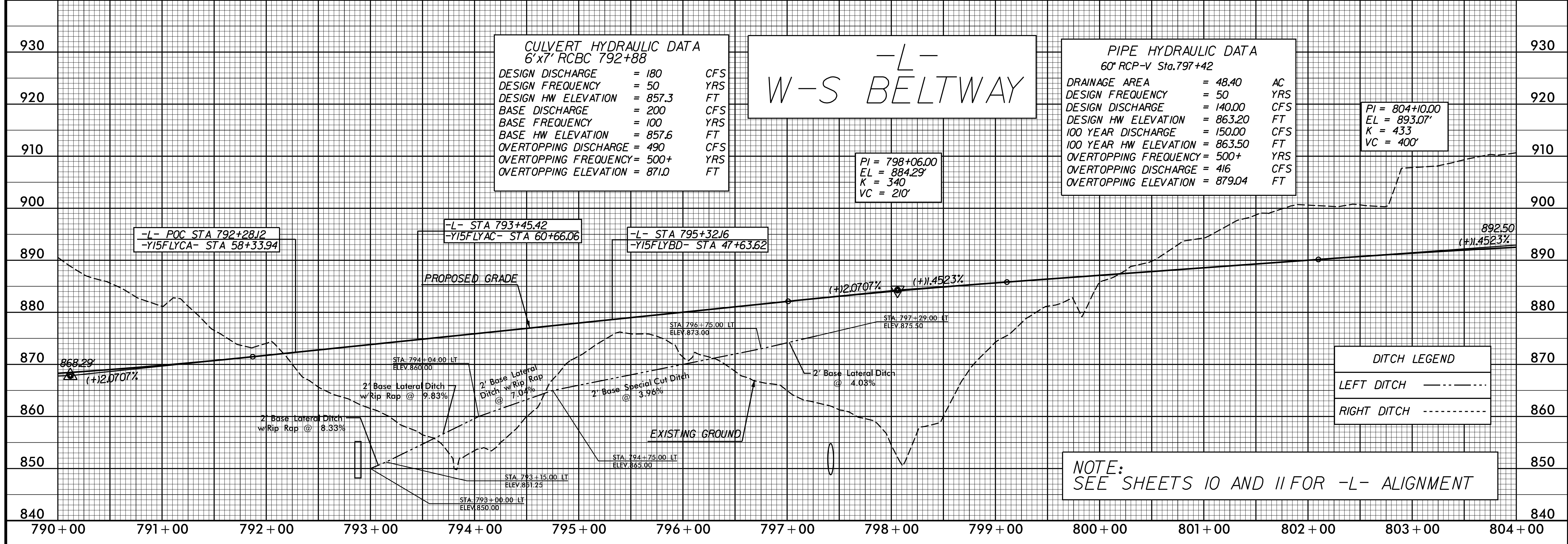
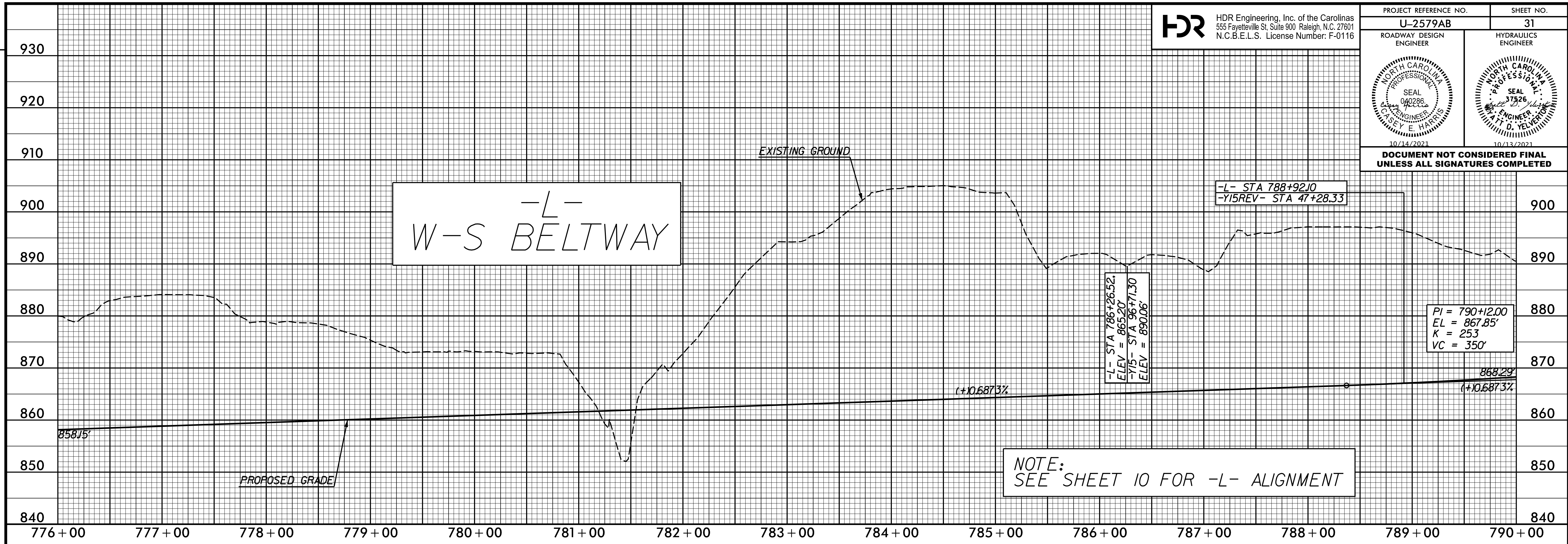
|                       |         |     |
|-----------------------|---------|-----|
| DESIGN DISCHARGE      | = 1430  | CFS |
| DESIGN FREQUENCY      | = 50    | YRS |
| DESIGN HW ELEVATION   | = 836.9 | FT  |
| BASE DISCHARGE        | = 1630  | CFS |
| BASE FREQUENCY        | = 100   | YRS |
| BASE HW ELEVATION     | = 837.7 | FT  |
| OVERTOPPING DISCHARGE | = 4300  | CFS |
| OVERTOPPING FREQUENCY | = 500+  | YRS |
| OVERTOPPING ELEVATION | = 853.7 | FT  |

NOTE:  
SEE SHEETS 9 AND 10 FOR -L- ALIGNMENT

REVISIONS

PLOT DRIVER: NCDOT\_color\_eng\_50.plt  
 USER: CHARRIS  
 FILE: NCDOT\NCDOT-U2579AB\6.0.CAD.BTM\6.2.Work\In\_Progress\U-2579AB\Roadway\Proj\U2579ab\_rdy\_psh.plt\_30.dgn  
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 DATE: 7/13/2021  
 TIME: 3:18:49 PM

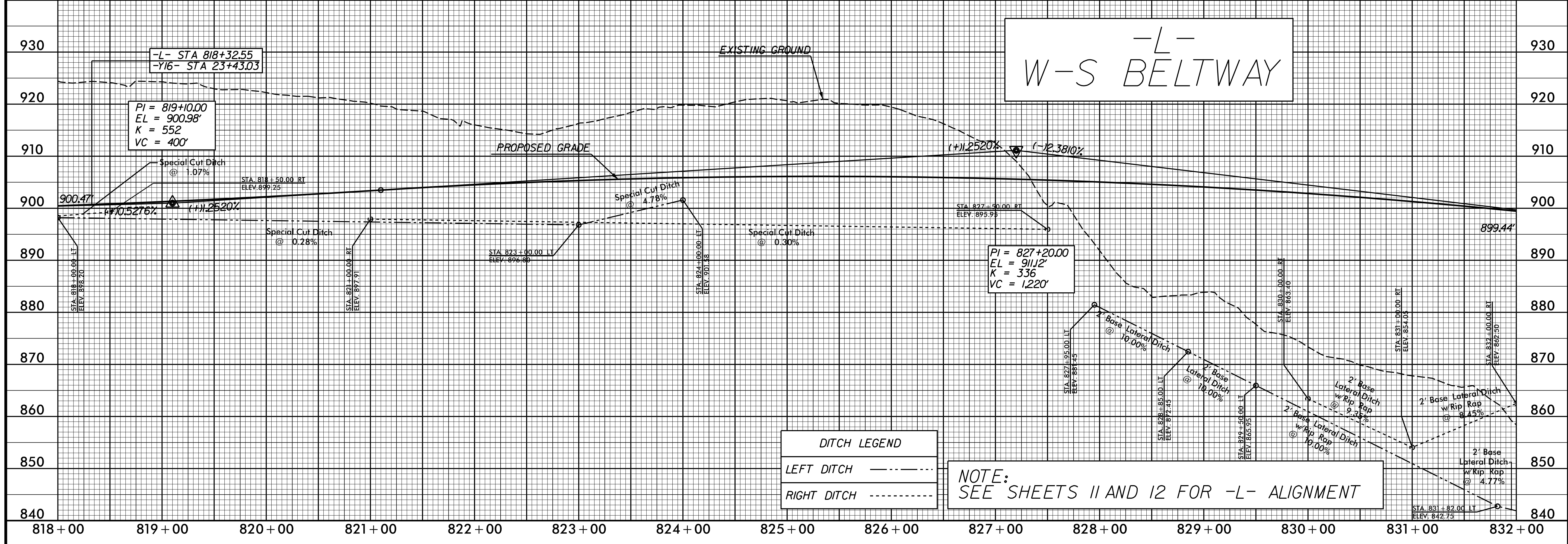
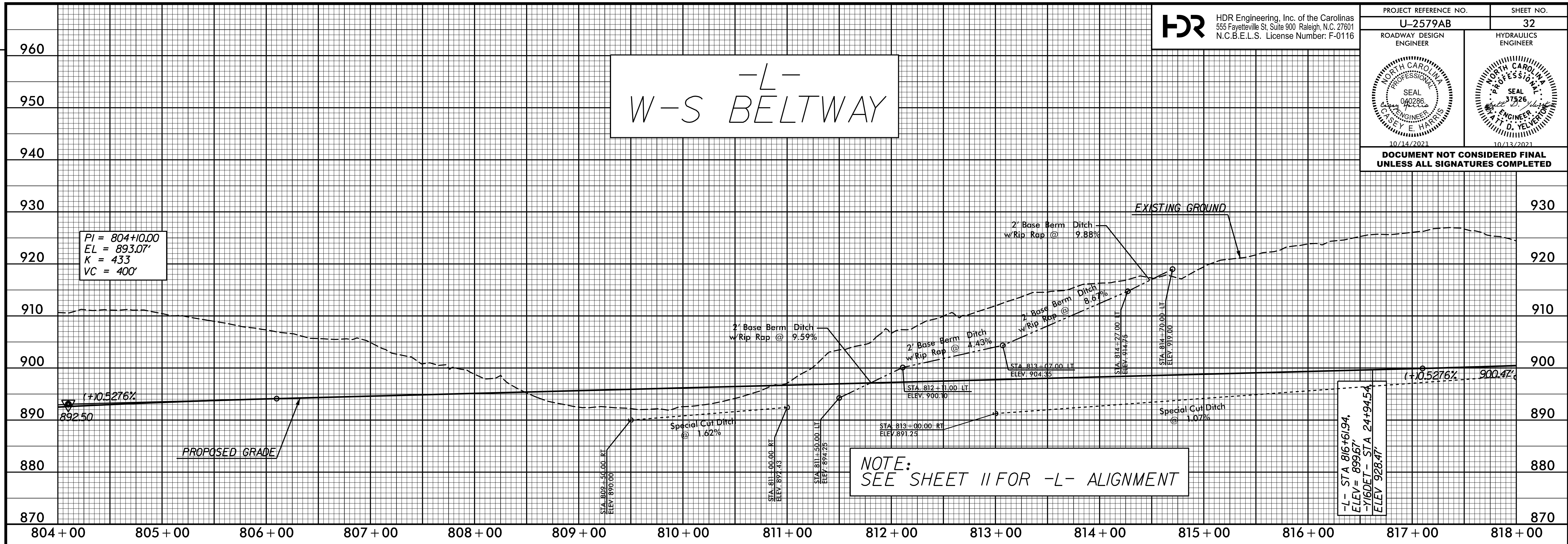




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 USER: CHARRIS  
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 TIME: 3:19:01 PM  
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REVISIONS



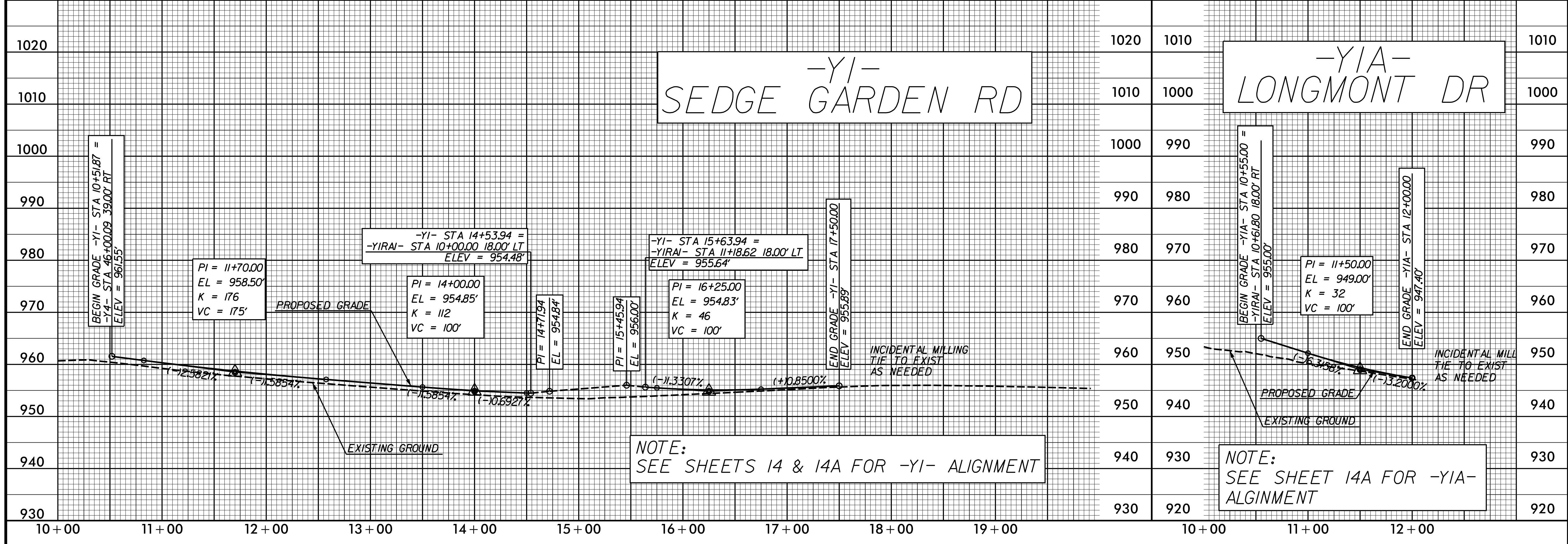
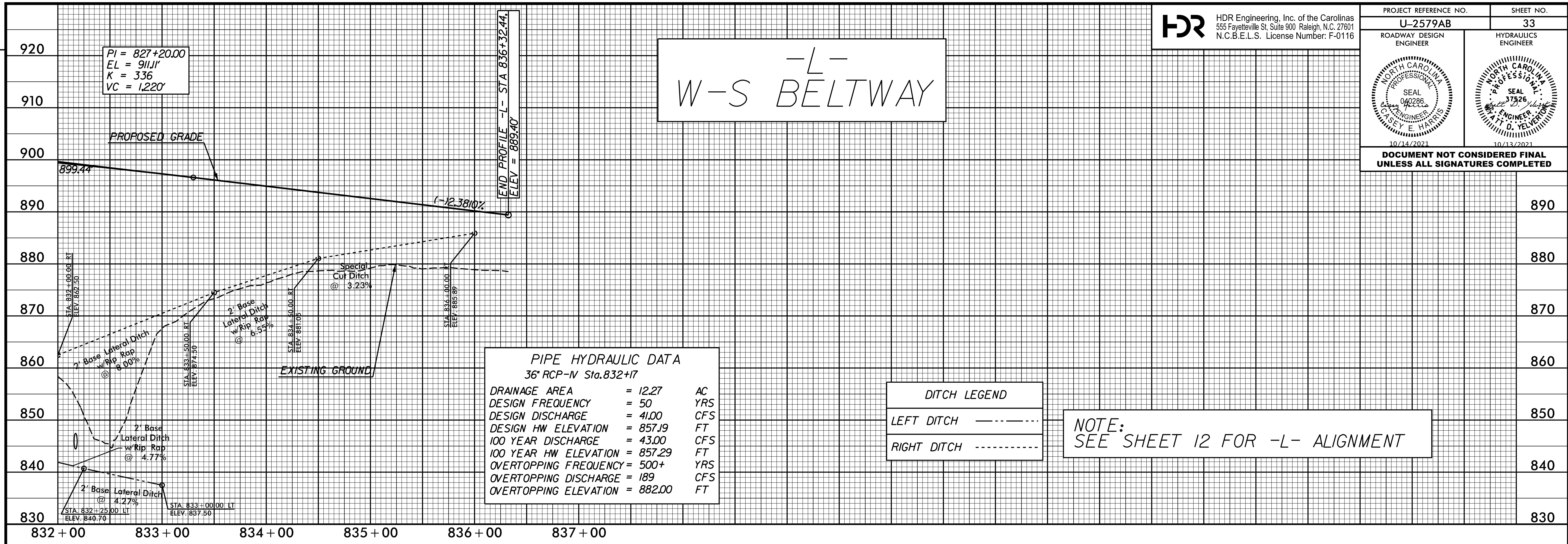


REVISIONS

PLOT DRIVER: NCDOT\_pdf\_color\_eng\_50.plt  
 USER: CHARRIS  
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 DATE: 7/13/2021  
 TIME: 3:19:13 PM



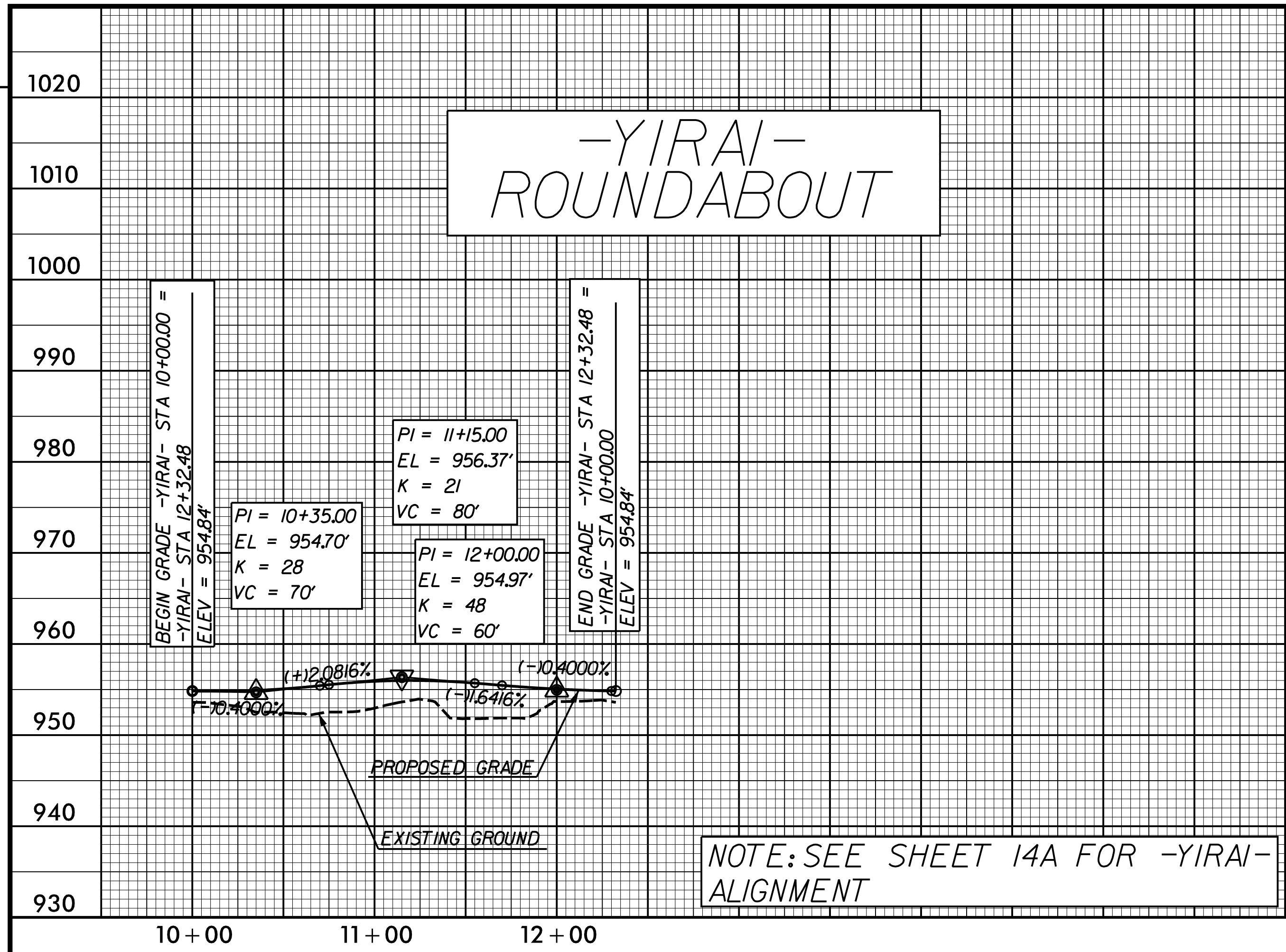


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 USER: CHARRIS  
 DATE: 7/13/2021  
 TIME: 3:19:25 PM  
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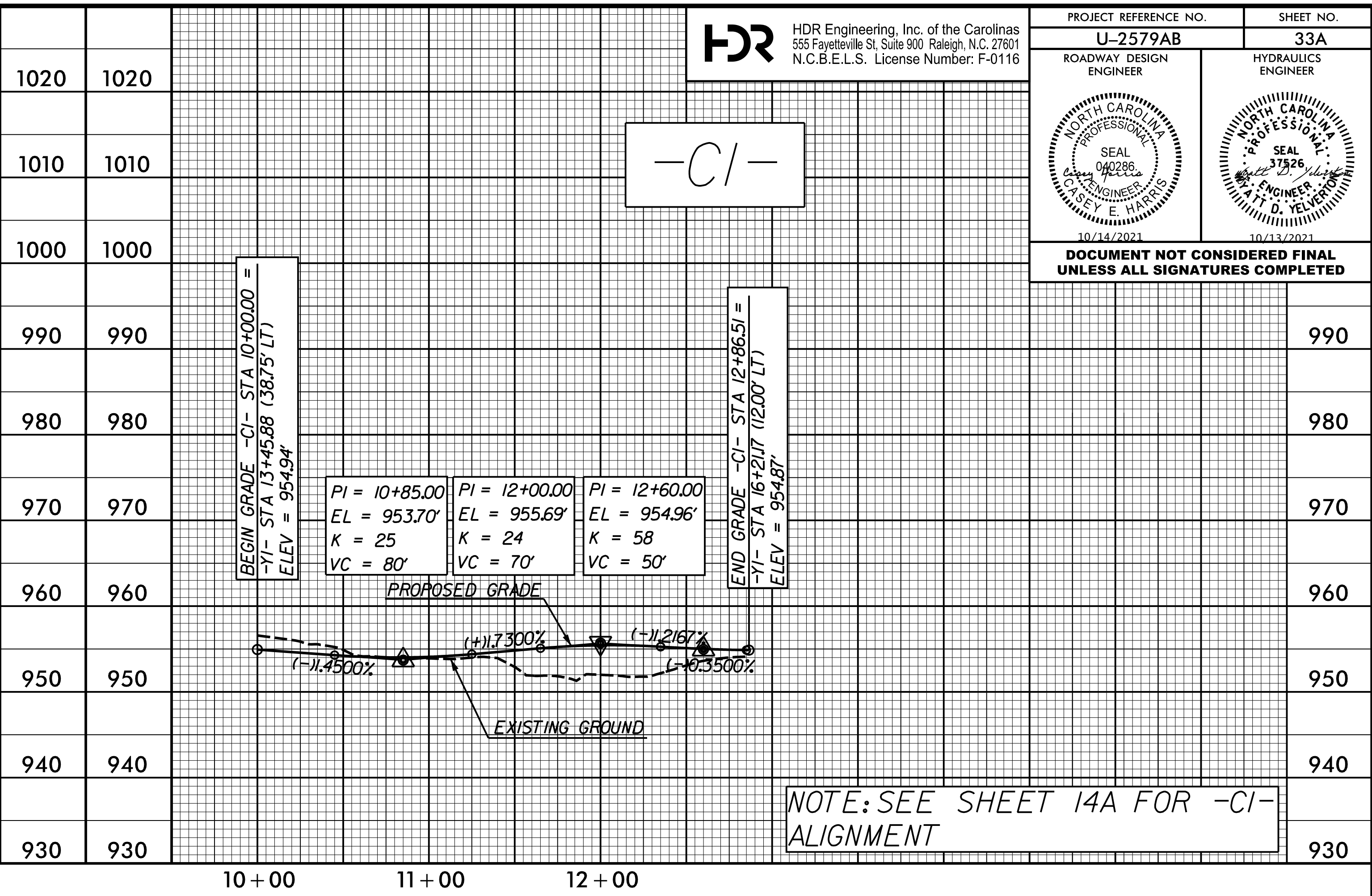
REVISIONS



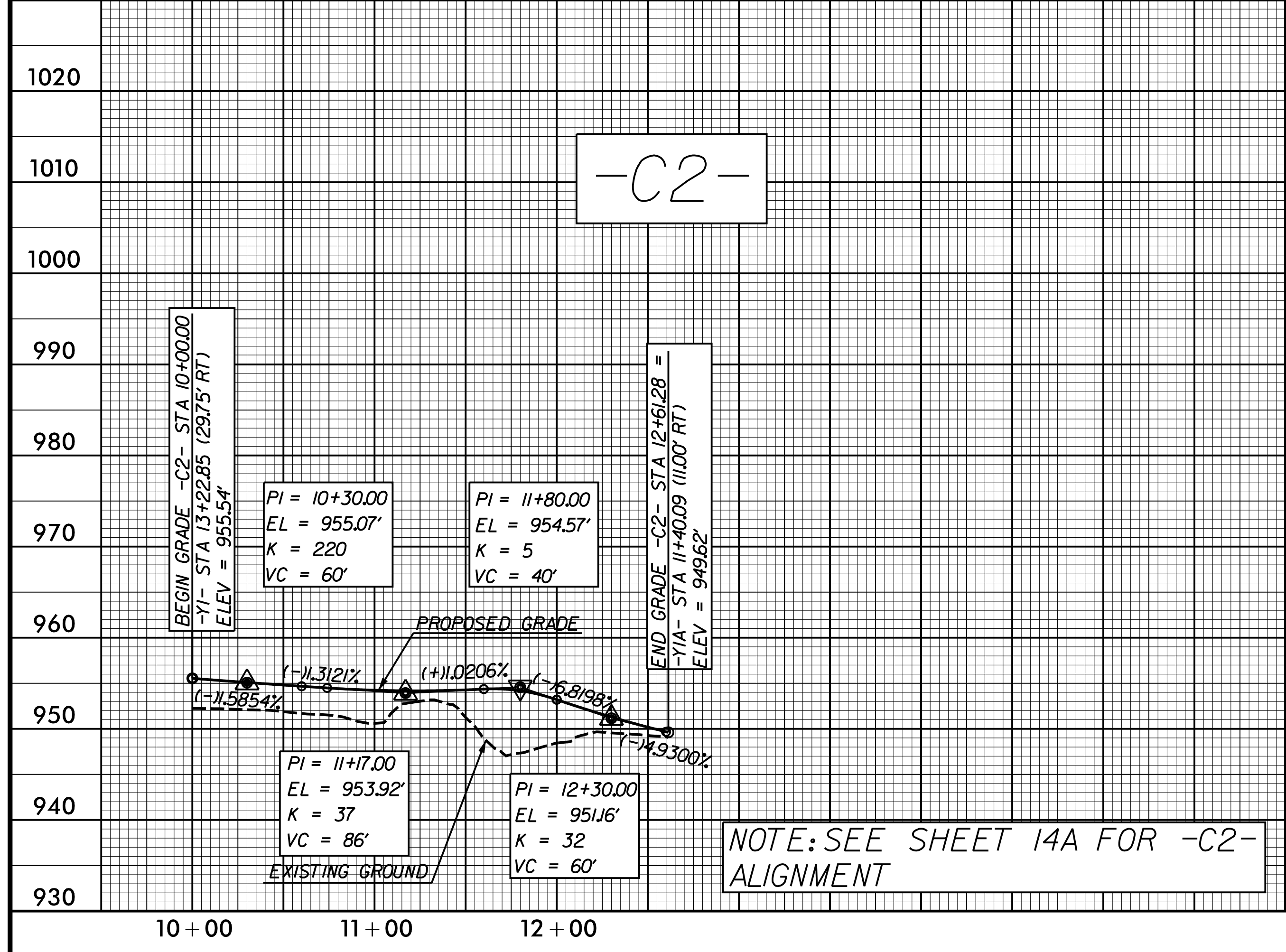
**DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED**



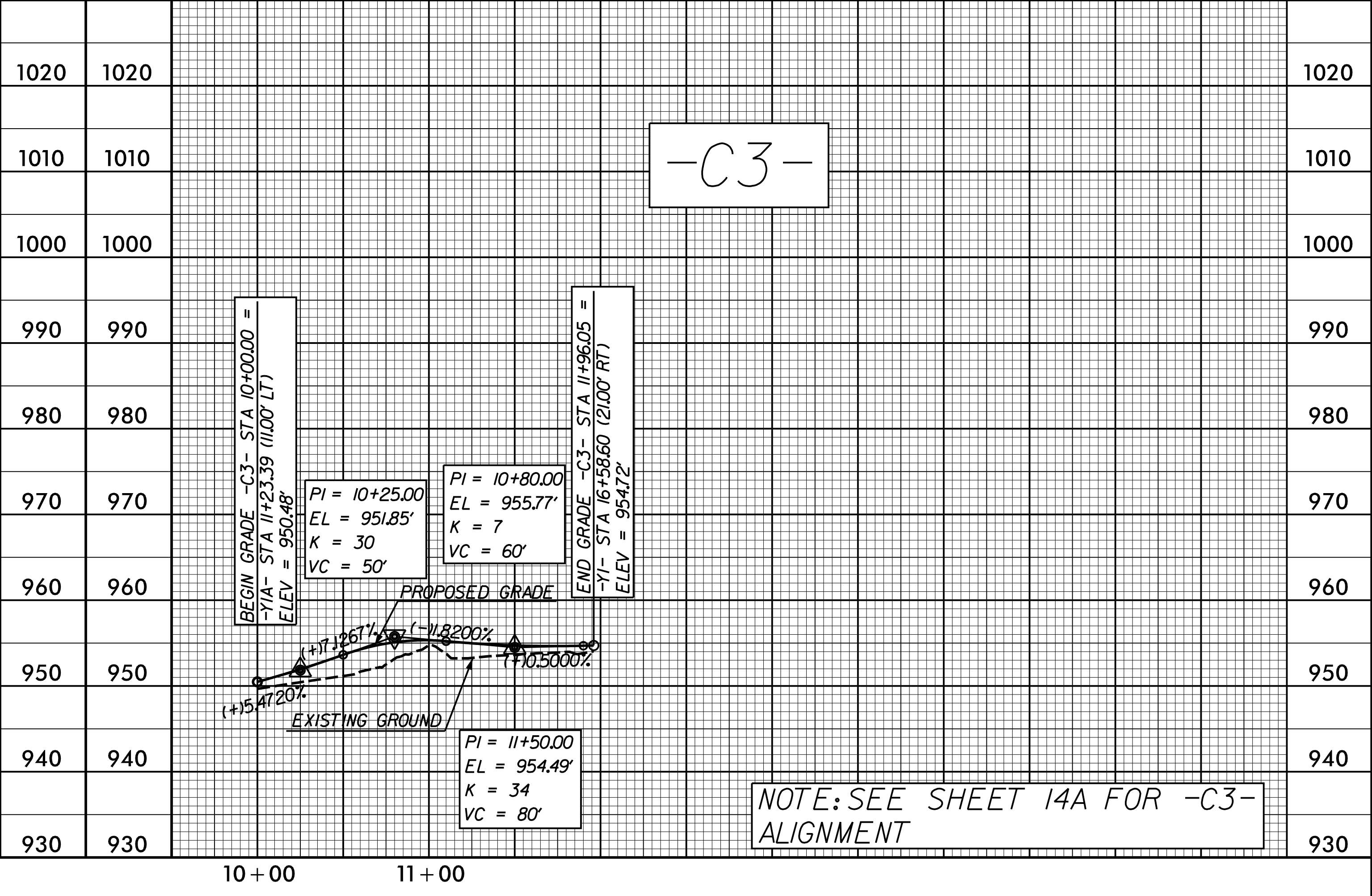
NOTE: SEE SHEET 14A FOR -YIRAI- ALIGNMENT



NOTE: SEE SHEET 14A FOR -CI- ALIGNMENT



NOTE: SEE SHEET 14A FOR -C2- ALIGNMENT



NOTE: SEE SHEET 14A FOR -C3- ALIGNMENT

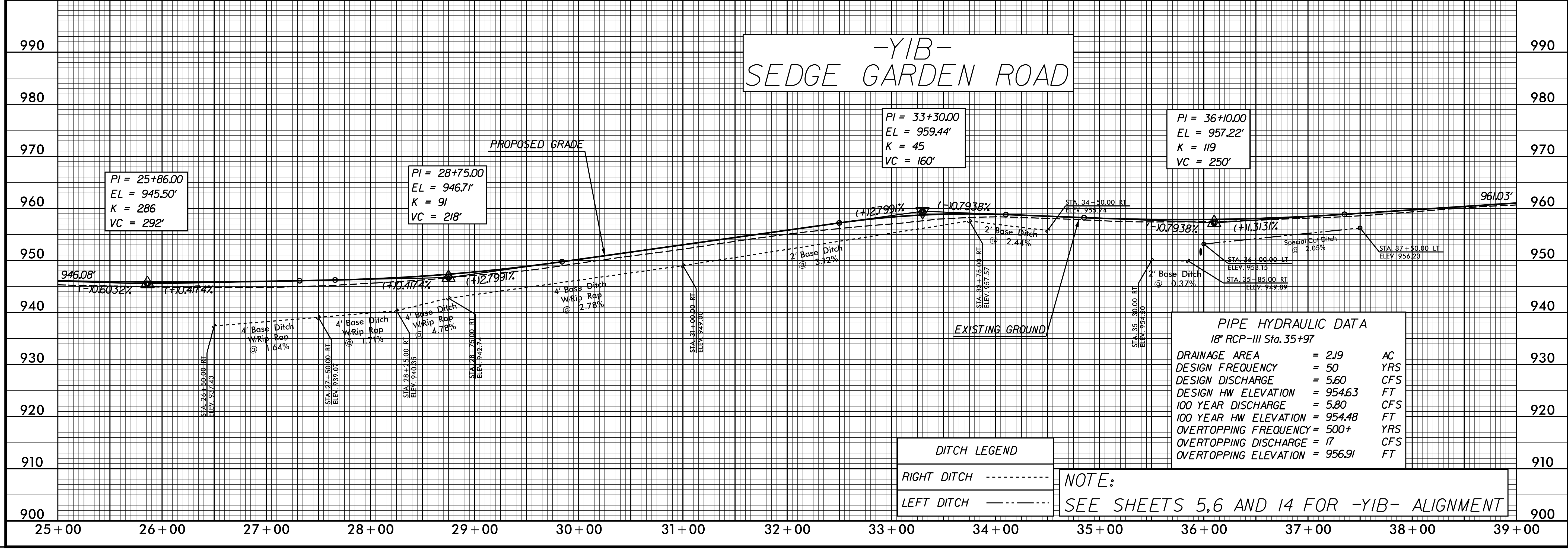
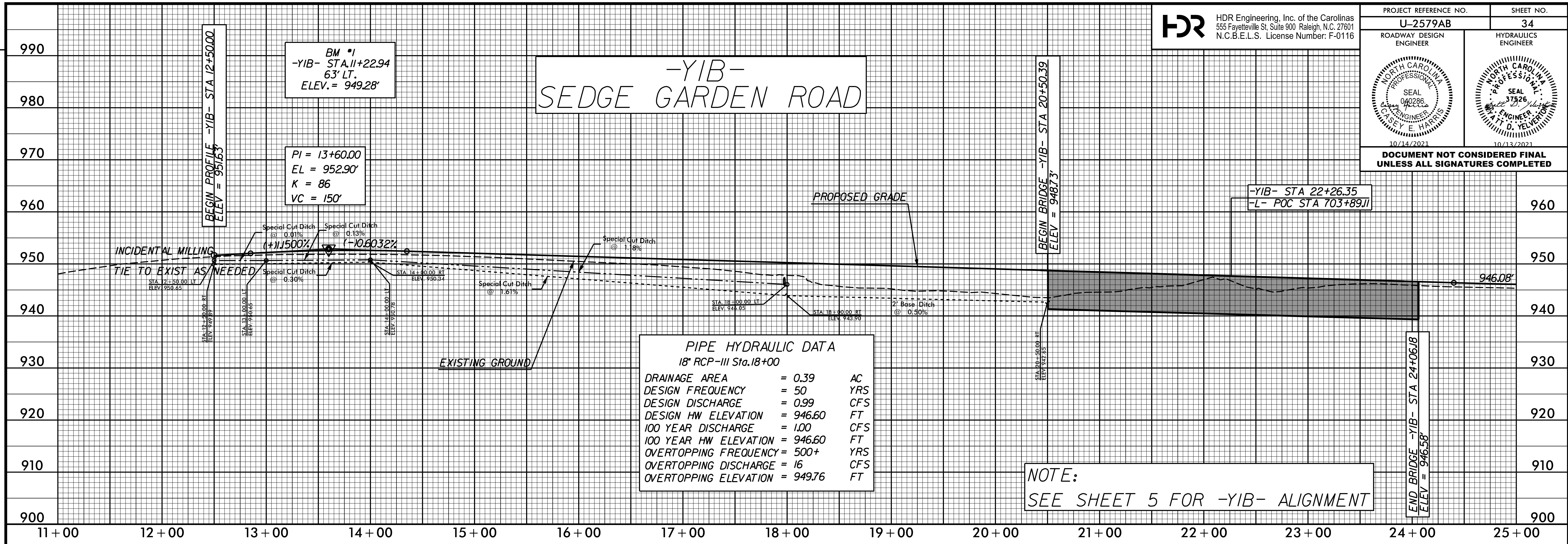
REVISIONS

PLOT DRIVER: NCDOT\_color\_eng\_50.plt  
 USER: CHARRIS  
 FILE: NCDOT\NCDOT-U2579AB\6.0.CAD.BTM\6.2.Work\In\_Progress\U-2579AB\Roadway\Proj\U2579ab\_rdy\_psh.plt\_33a.dgn

PENTABLE: NCDOT\_pshp.fl\_conventional.tbl  
 DATE: 7/13/2021  
 TIME: 3:19:37 PM



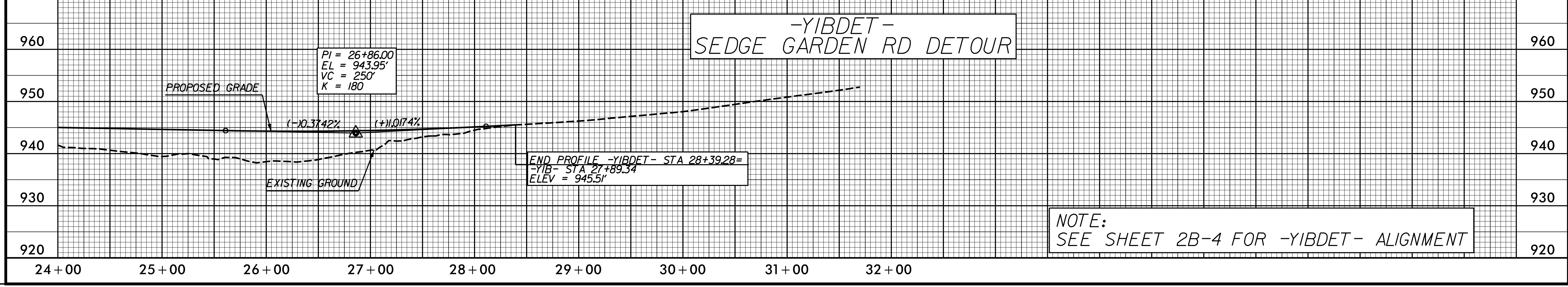
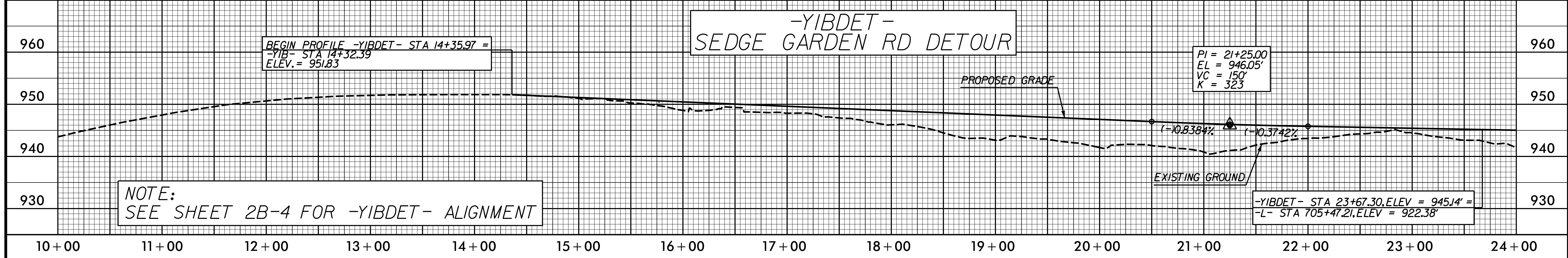
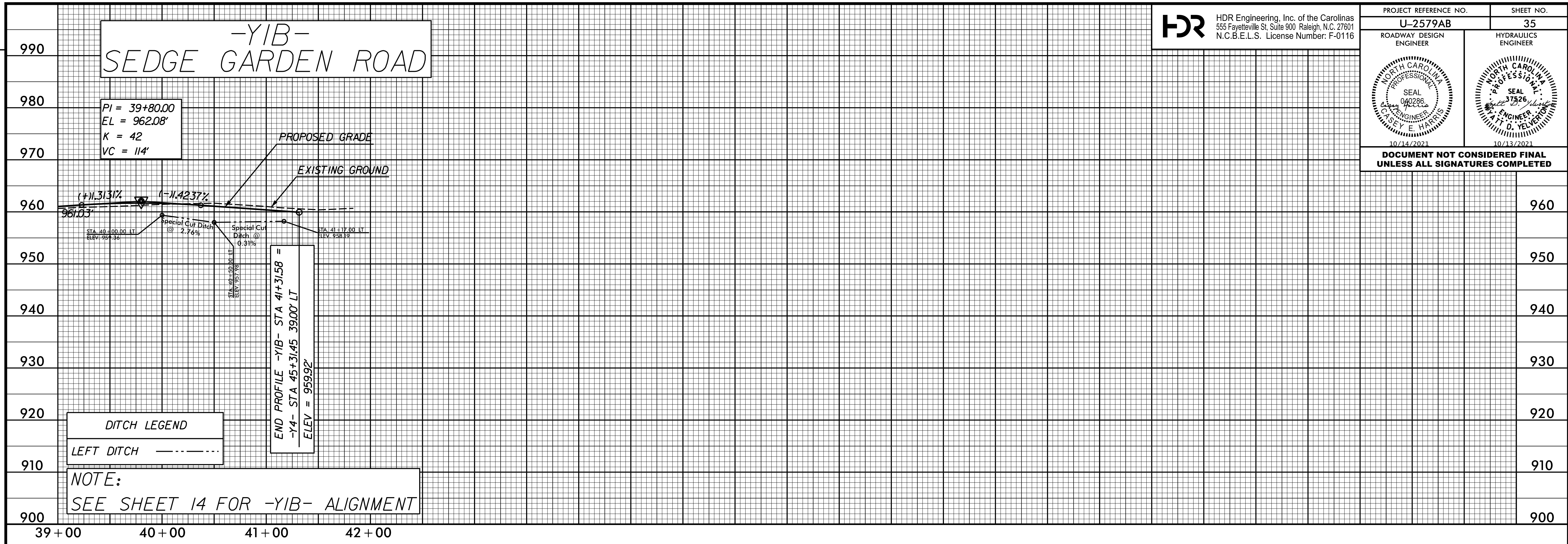
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



REVISIONS

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 USER: CHARRIS  
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 TIME: 3:19:50 PM  
 FILE: NCDOT\NCDOT-U2579AB\6.0.CAD.BTM\6.2.Work\In\_Progress\U-2579AB\Roadway\Proj\U2579ab\_rdy\_dsh.plt\_34.dgn



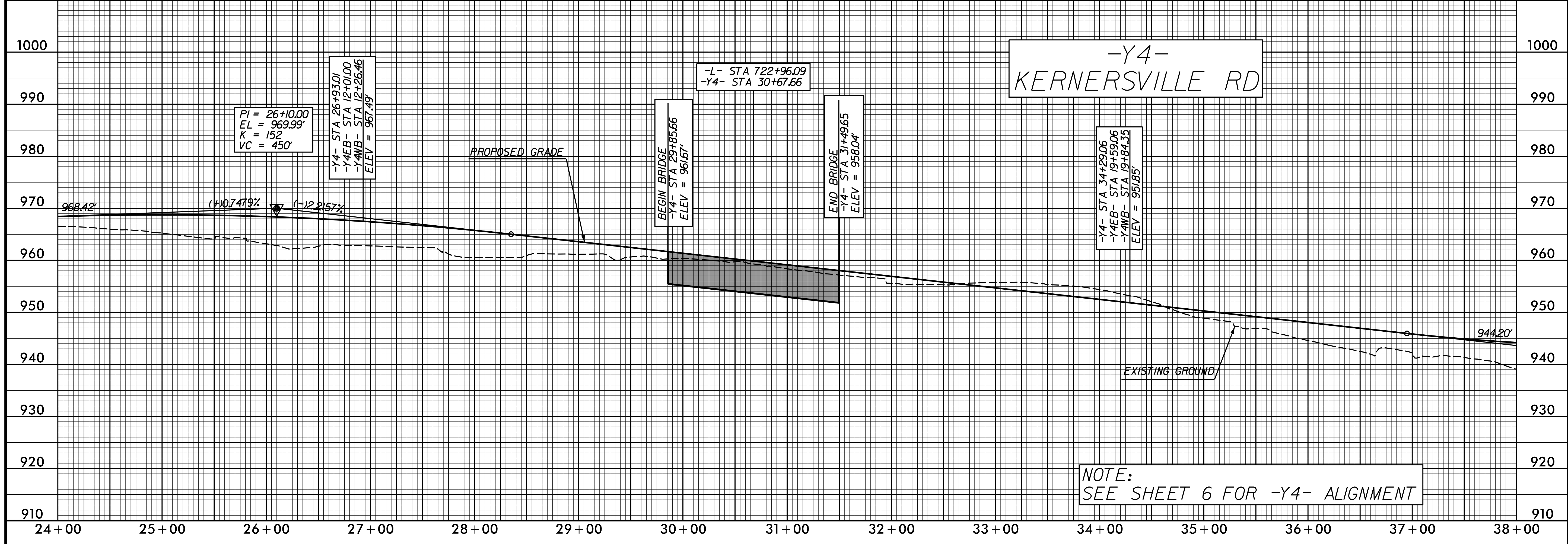
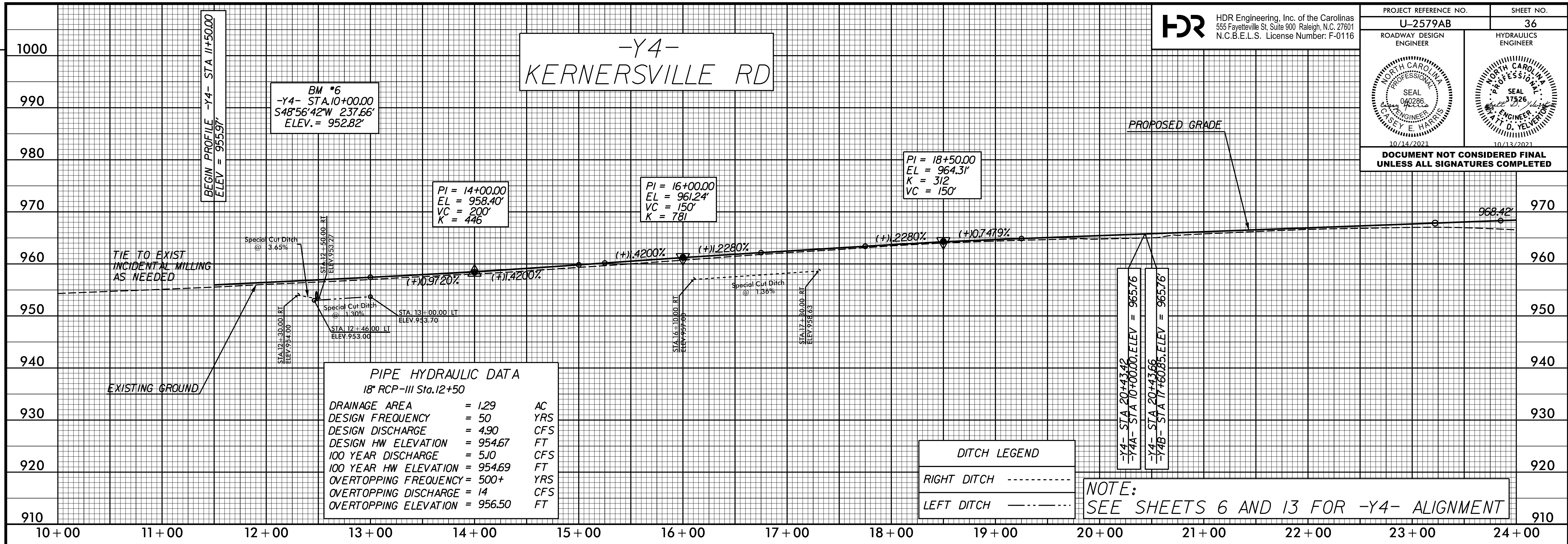


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REVISIONS



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

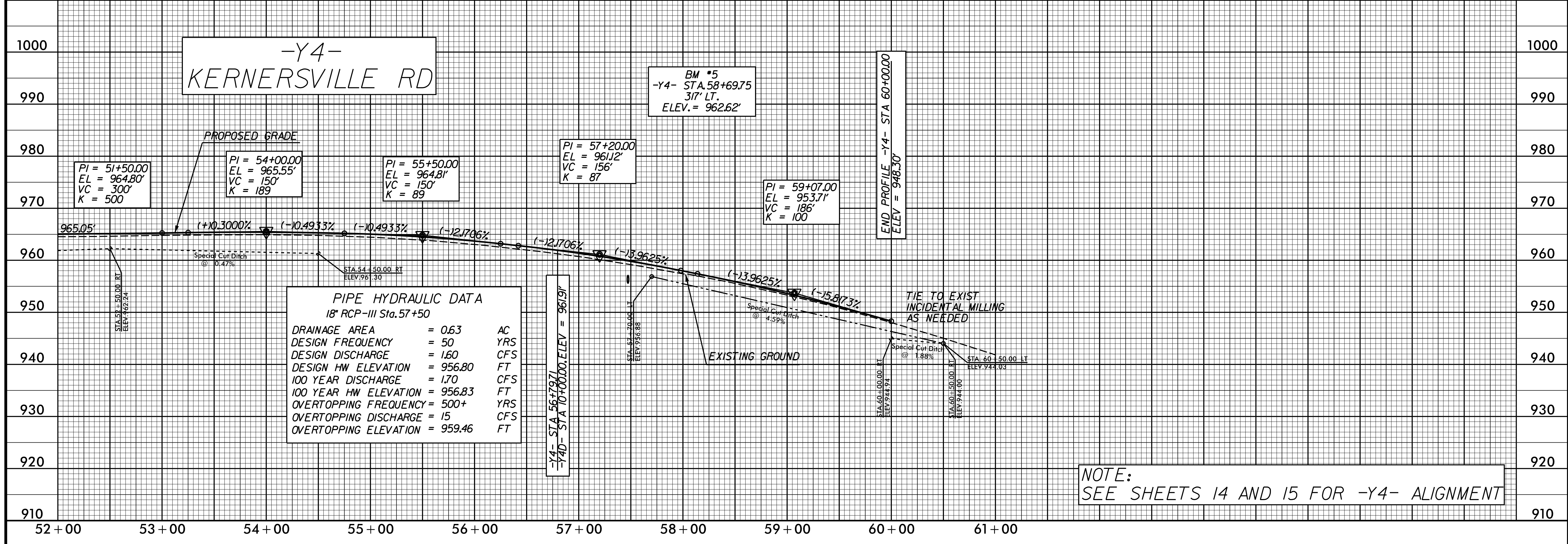
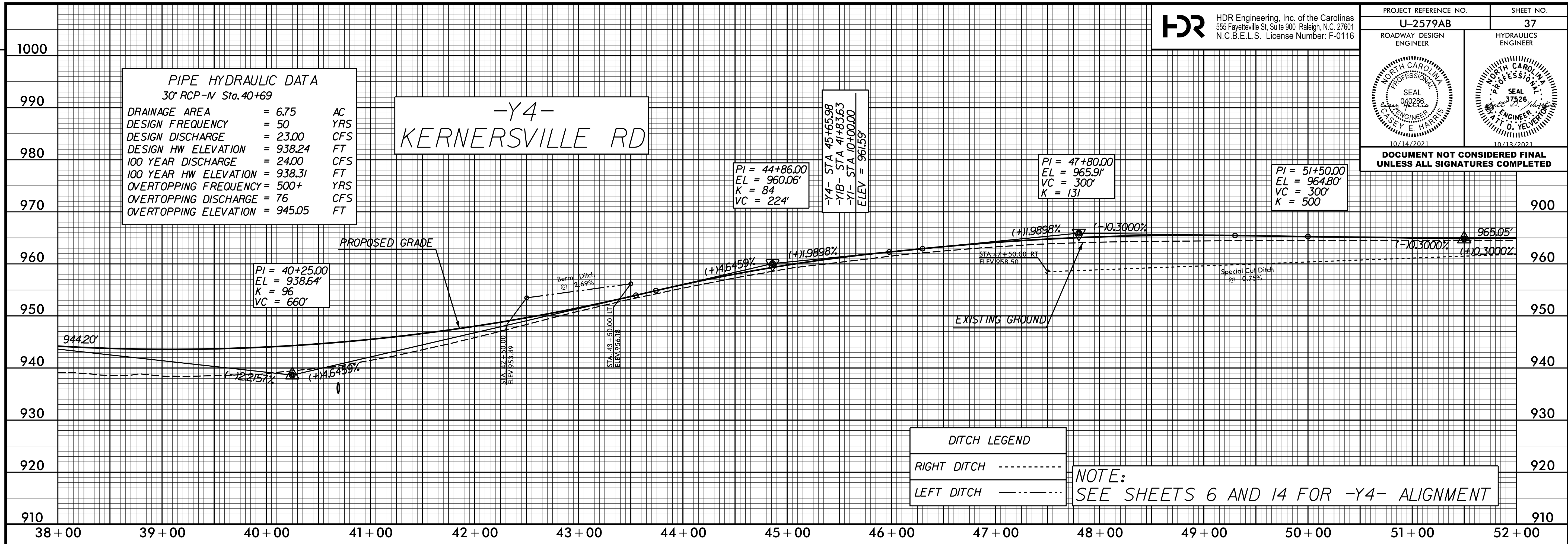


PLOT DRIVER: NCDOT\_color\_eng\_50.plt  
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 DATE: 7/13/2021  
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REVISIONS



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

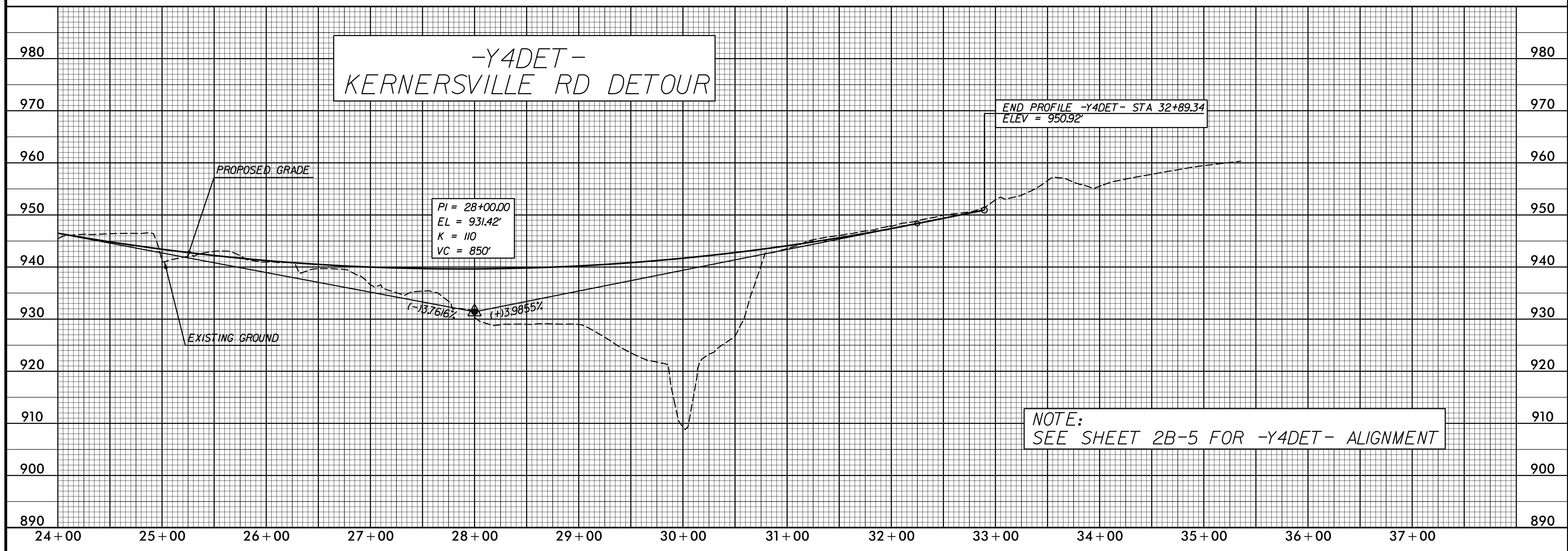
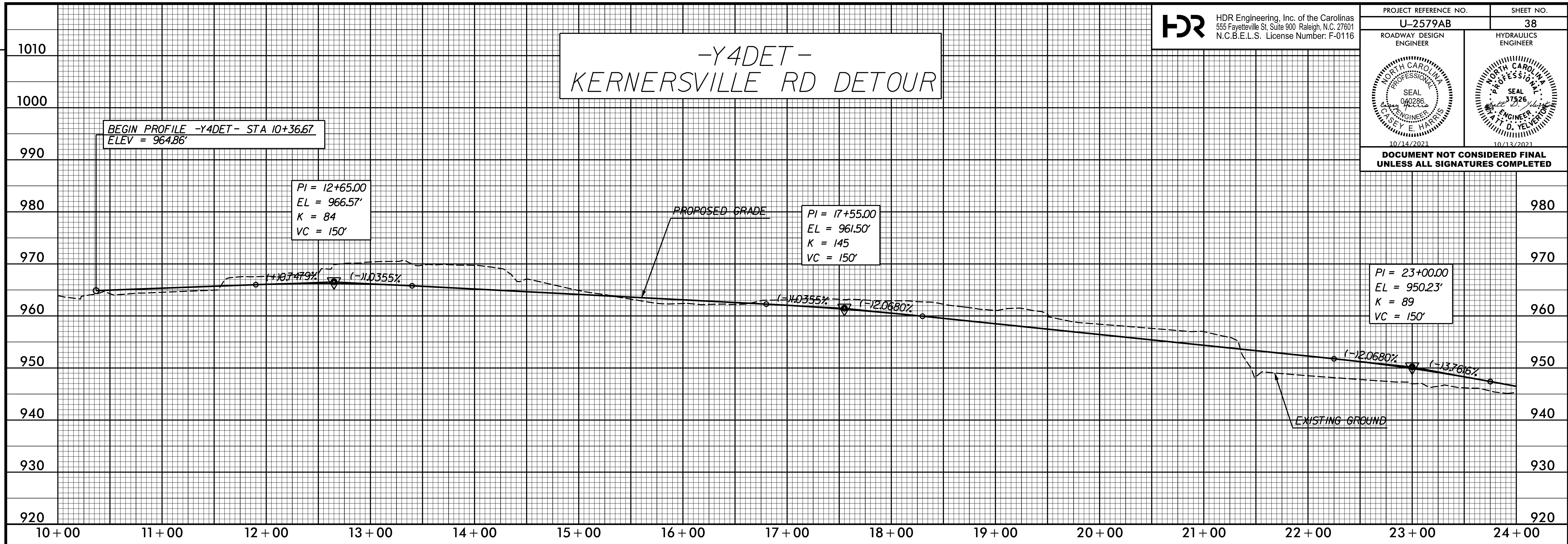


REVISIONS

PLOT DRIVER: NCDOT\_ncdot\_color\_eng\_50.plt  
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 FILE: NCDOT\NCDOT-U2579AB\6.0.CAD.BTM\6.2.Work\In\_Progress\U-2579AB\Roadway\Proj\U2579ab\_rdy\_psh.plt.37.dgn



|  |                        |
|--|------------------------|
| PROJECT REFERENCE NO.<br><b>U-2579AB</b>                         | SHEET NO.<br><b>38</b> |
| ROADWAY DESIGN ENGINEER  | HYDRAULICS ENGINEER    |
|  |                        |
| DOCUMENT NOT CONSIDERED FINAL<br>UNLESS ALL SIGNATURES COMPLETED |                        |



PLOT DRIVER: NCDOT\_pdf\_color\_eng\_50.plt  
 USER: CHARRIS  
 DATE: 7/13/2021  
 TIME: 3:20:38 PM  
 FILE: NCDOT\NCDOT-U2579AB\6.0.CAD.BTM\6.2.Work\In\_Progress\U-2579AB\Roadway\Proj\U2579ab\_rdy\_psh.plt\_38.dgn

REVISIONS