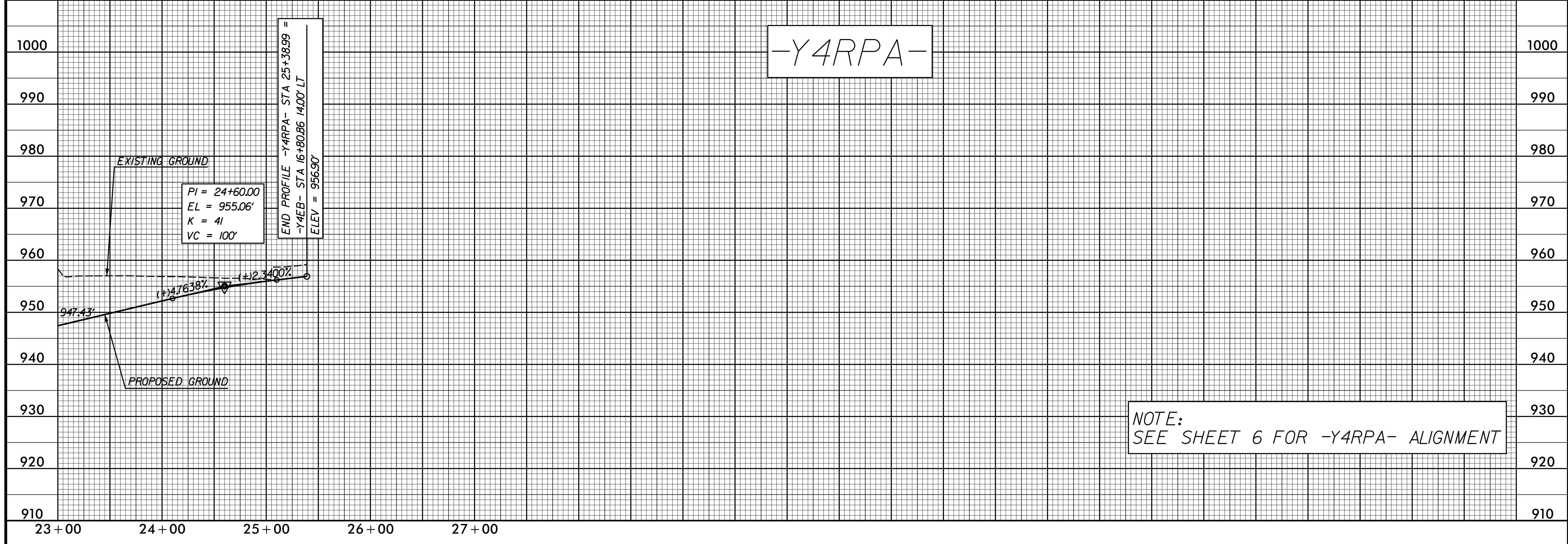
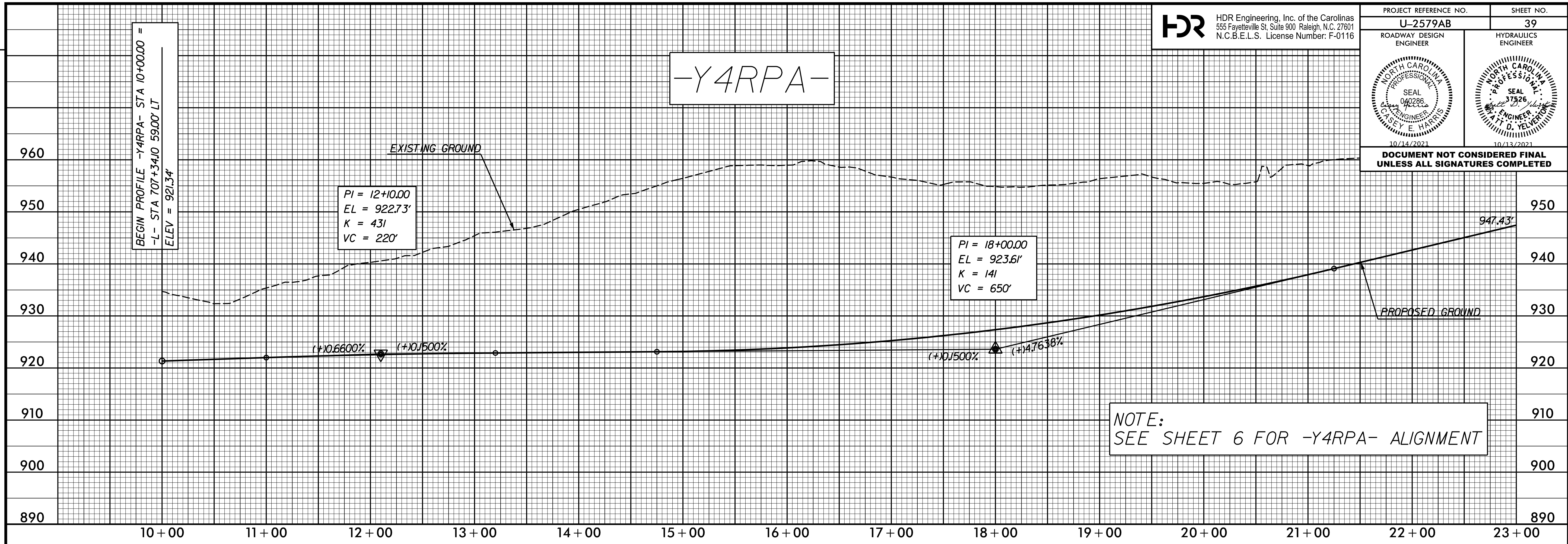


**DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED**



BEGIN PROFILE -Y4RPA- STA 10+00.00 =  
-L- STA 707+34.00 5900' LT  
ELEV = 921.34'

PI = 12+10.00  
EL = 922.73'  
K = 431  
VC = 220'

PI = 18+00.00  
EL = 923.61'  
K = 141  
VC = 650'

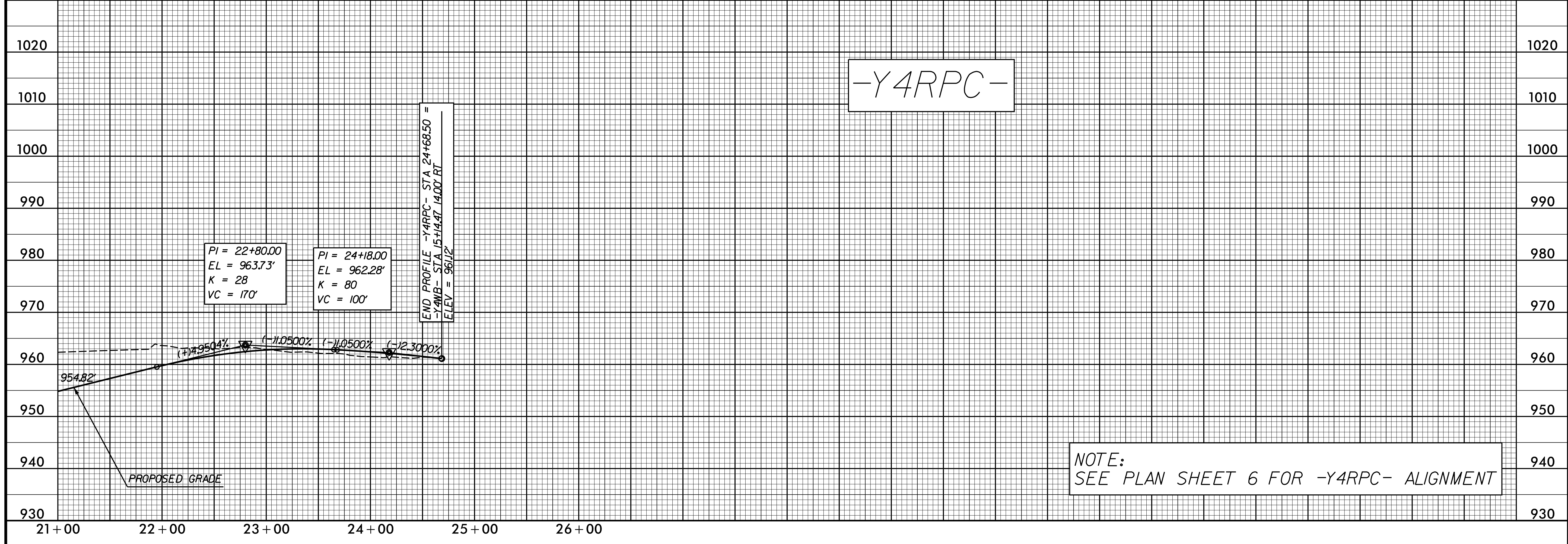
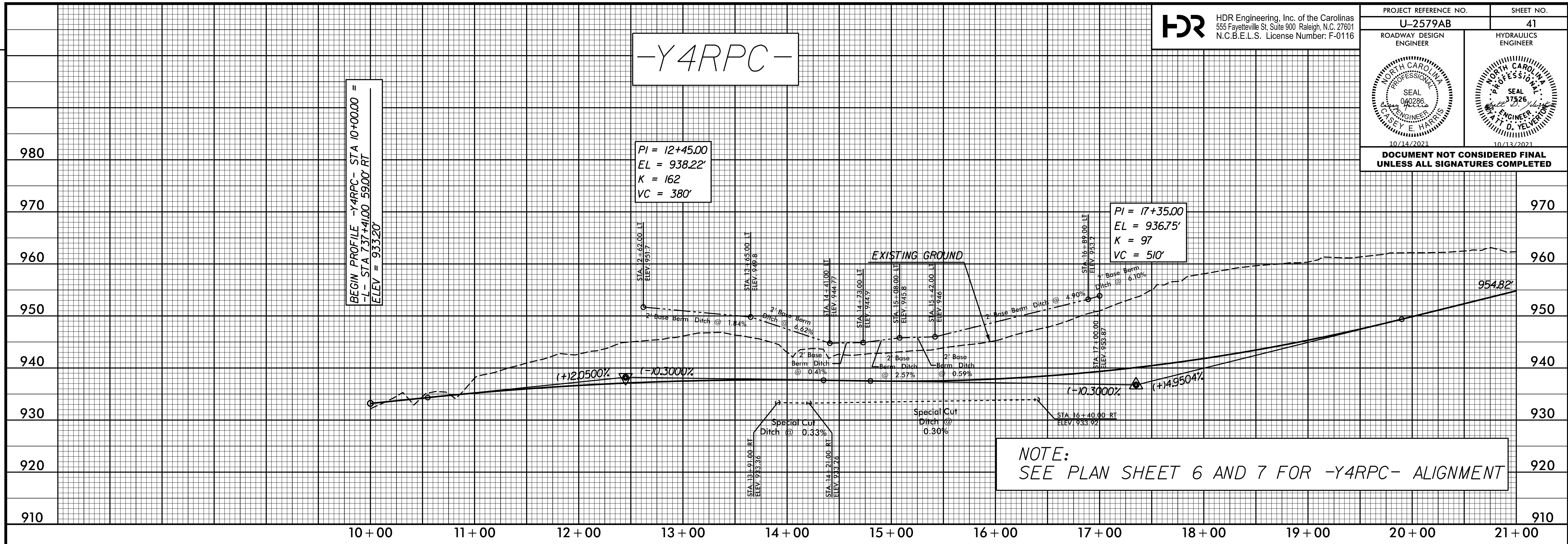
END PROFILE -Y4RPA- STA 25+38.99 =  
-Y4EB- STA 16+80.86 1400' LT  
ELEV = 956.90'

PI = 24+60.00  
EL = 955.06'  
K = 41  
VC = 100'

PLOT DRIVER: NCDOT\_pdf\_color\_eng\_50.plt  
USER: CHARRIS  
DATE: 7/13/2021  
TIME: 3:20:50 PM  
FILE: NCDOT\NCDOT-U2579AB\6.0.CAD.BTM\6.2.Work\In\_Progress\U-2579AB\Roadway\Proj\U2579ab\_rdy\_psh.plt.39.dgn

REVISIONS



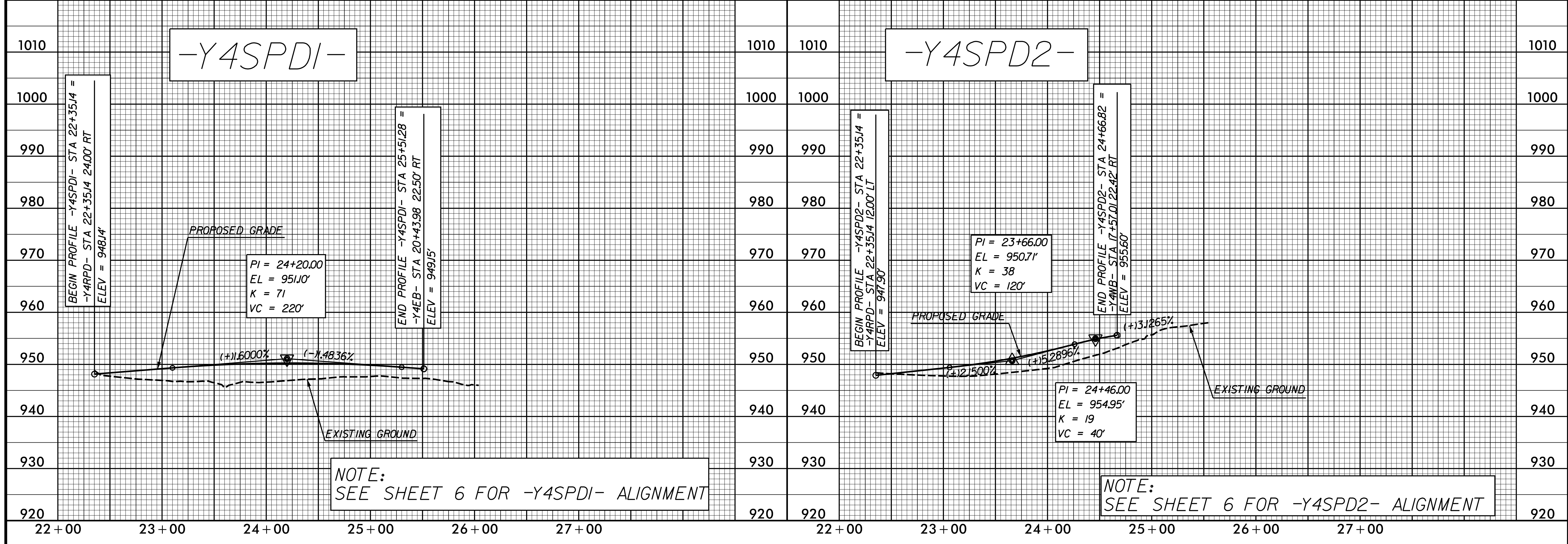
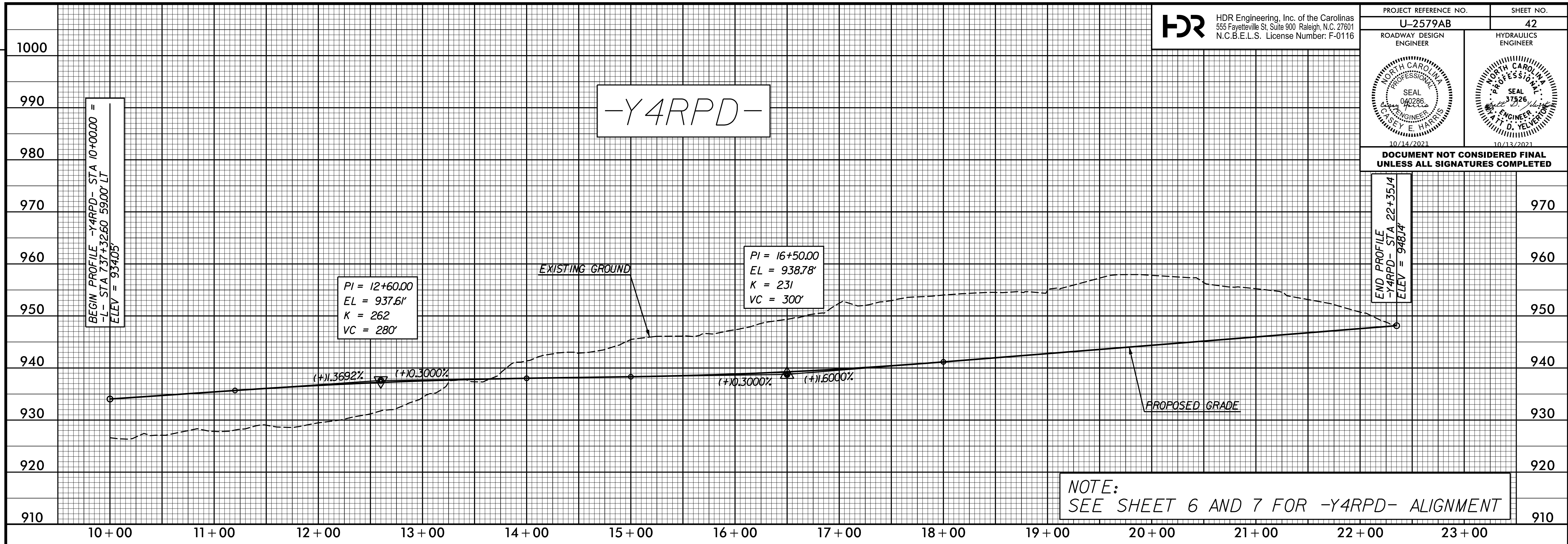


REVISIONS

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\_dsh.plt\_41.dgn

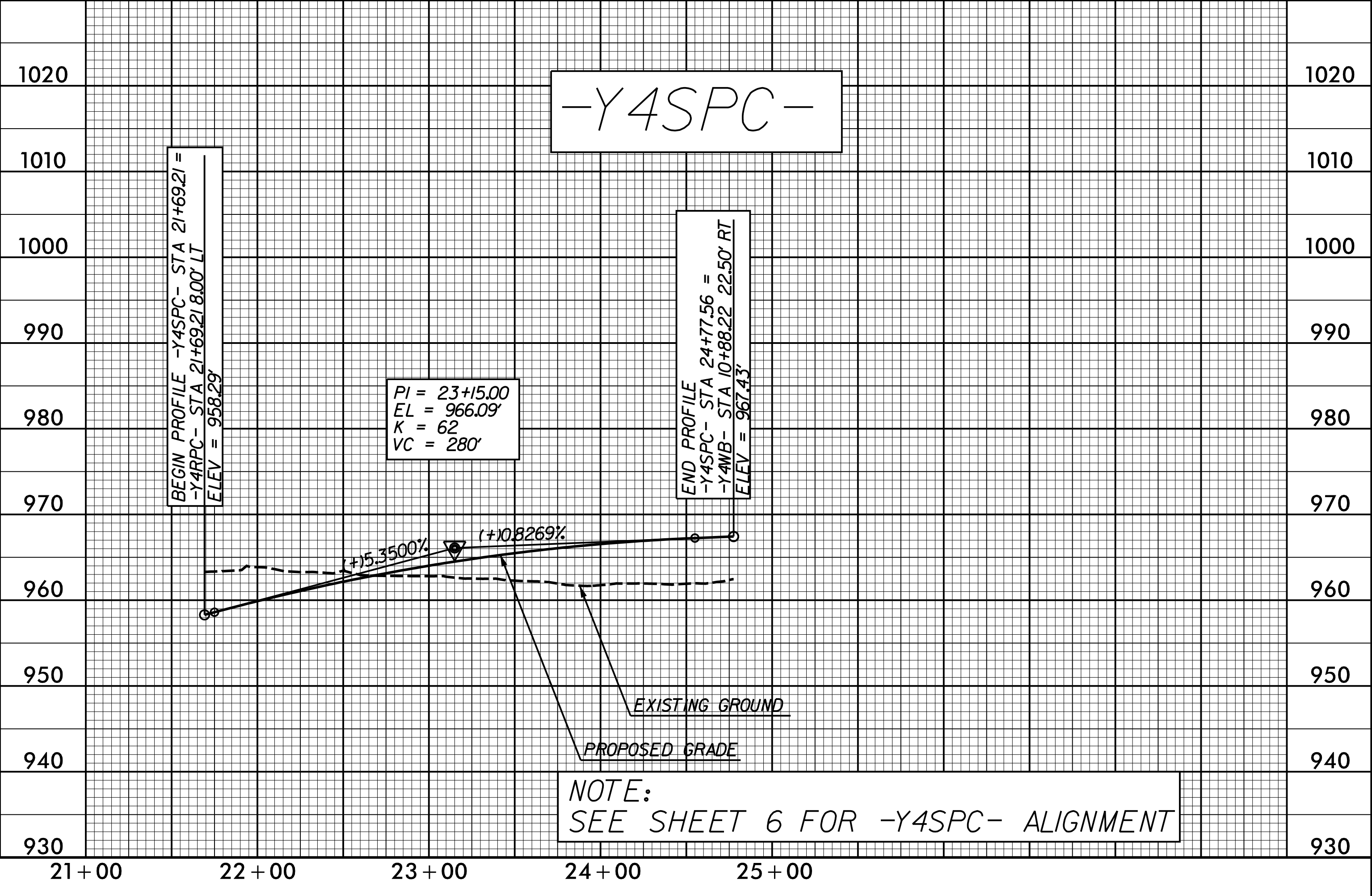
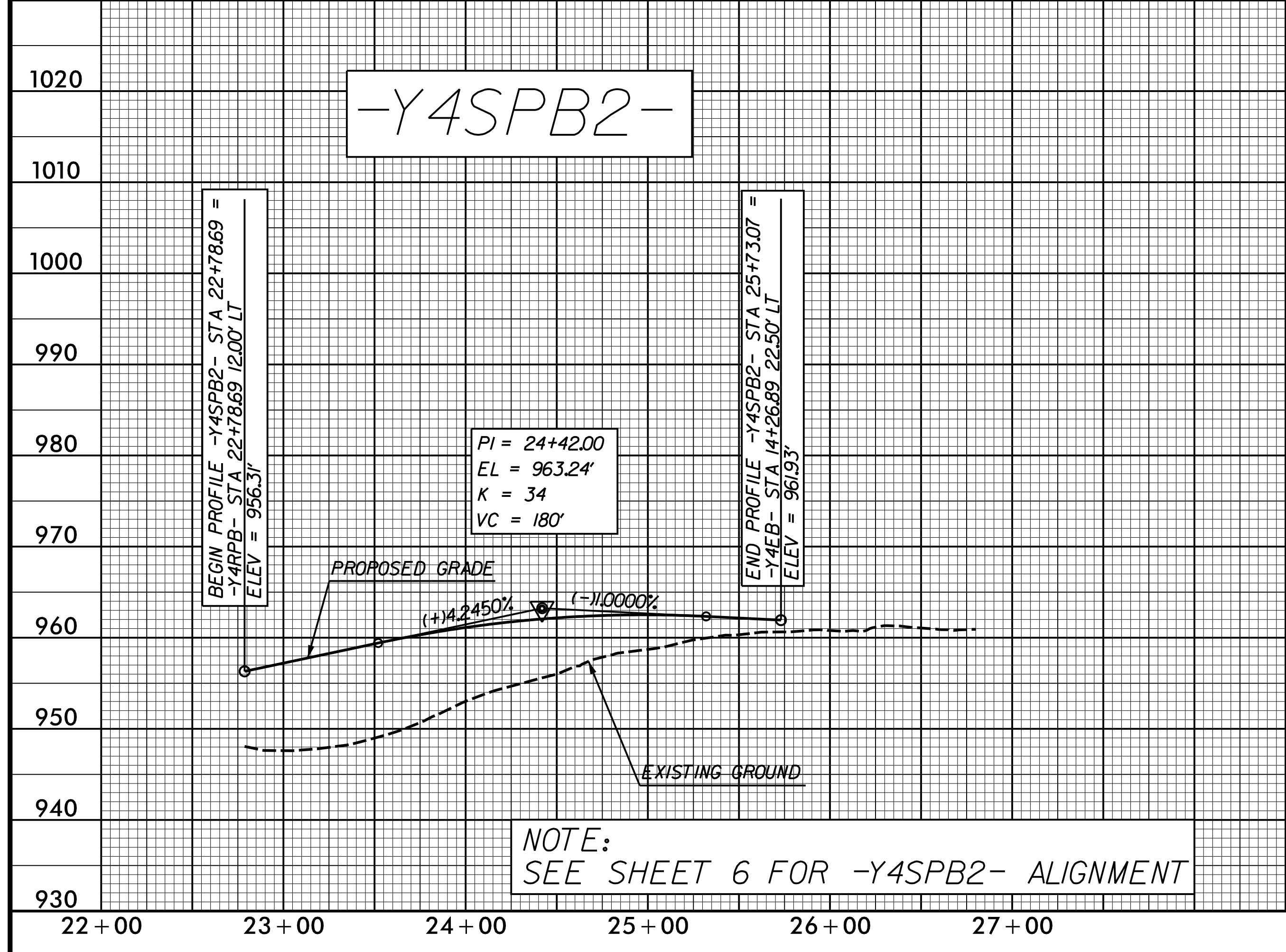
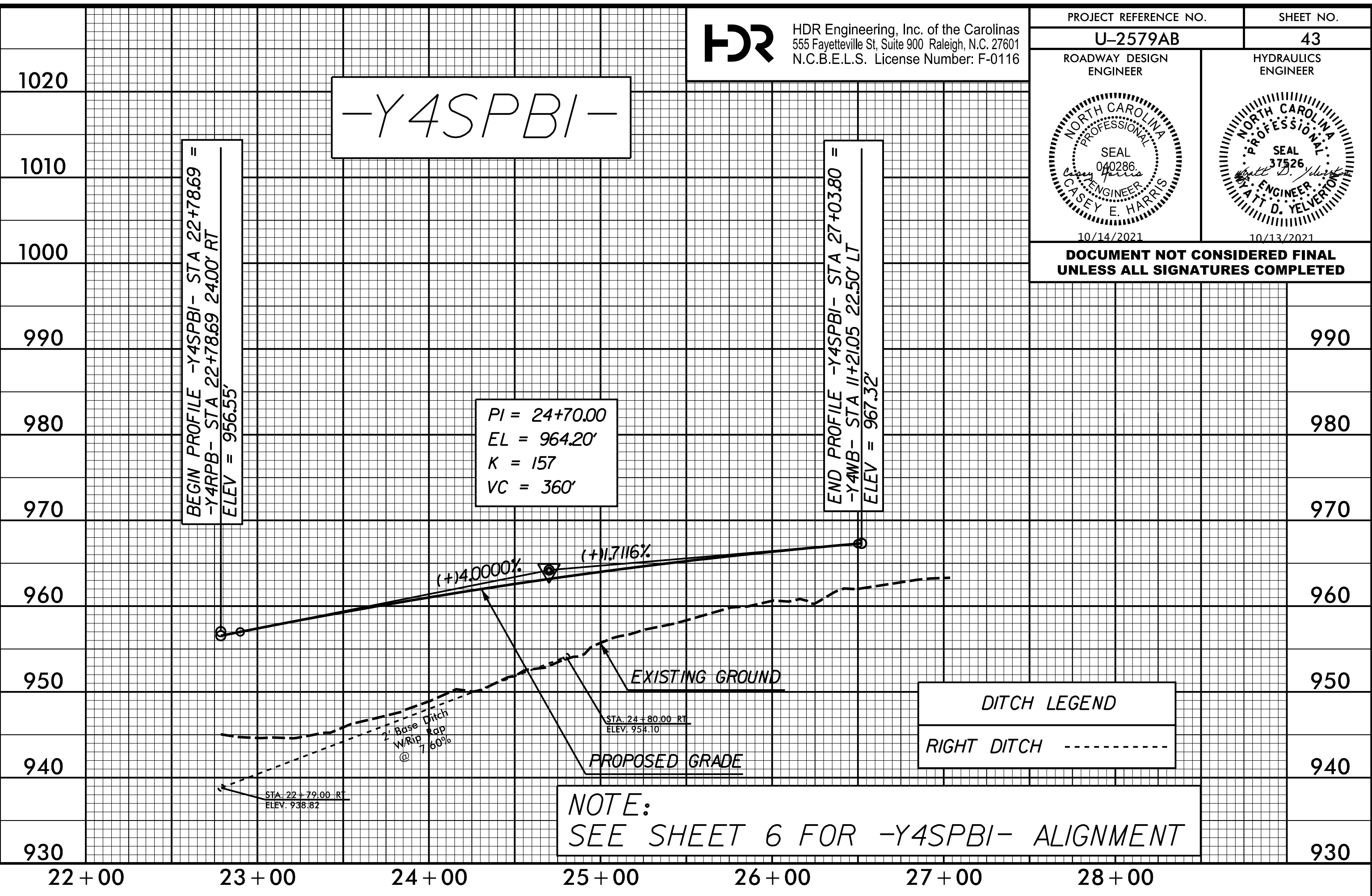
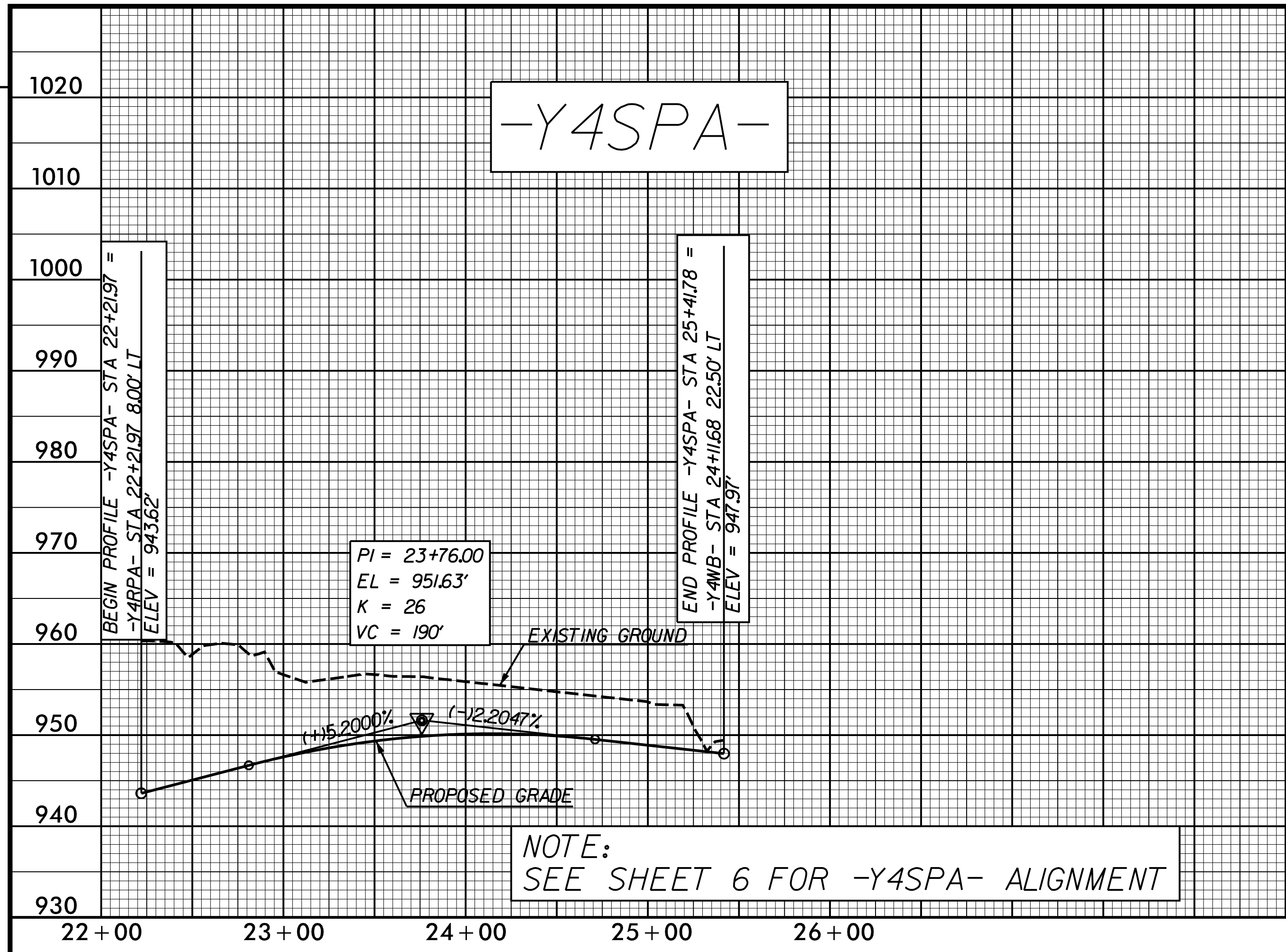
PENTABLE: NCDOT\_pshp.plt\_conventional.tbl  
 DATE: 7/13/2021  
 TIME: 3:21:14 PM





PLOT DRIVER: NCDOT\_pdf\_color\_eng\_50.plt  
 USER: CHARRIS  
 DATE: 7/13/2021  
 TIME: 3:24:27 PM  
 FILE: NCDOT\NCDOT-U2579AB\6.0.CAD.BTM\6.2.Work\In\_Progress\U-2579AB\Roadway\Proj\U2579ab\_rdy\_psh.plt\_42.dgn

REVISIONS



REVISIONS

PLOT DRIVER: NCDOT...color\_eng\_50.plt  
USER: CHARRIS  
DATE: 7/13/2021  
TIME: 3:21:40 PM  
FILE: NCDOT\NCDOT-U2579AB\6.0.CAD.BTM\6.2.Work\In\_Progress\U-2579AB\Roadway\Proj\U2579ab\_r\_dy\_dsh.plt\_43.dgn

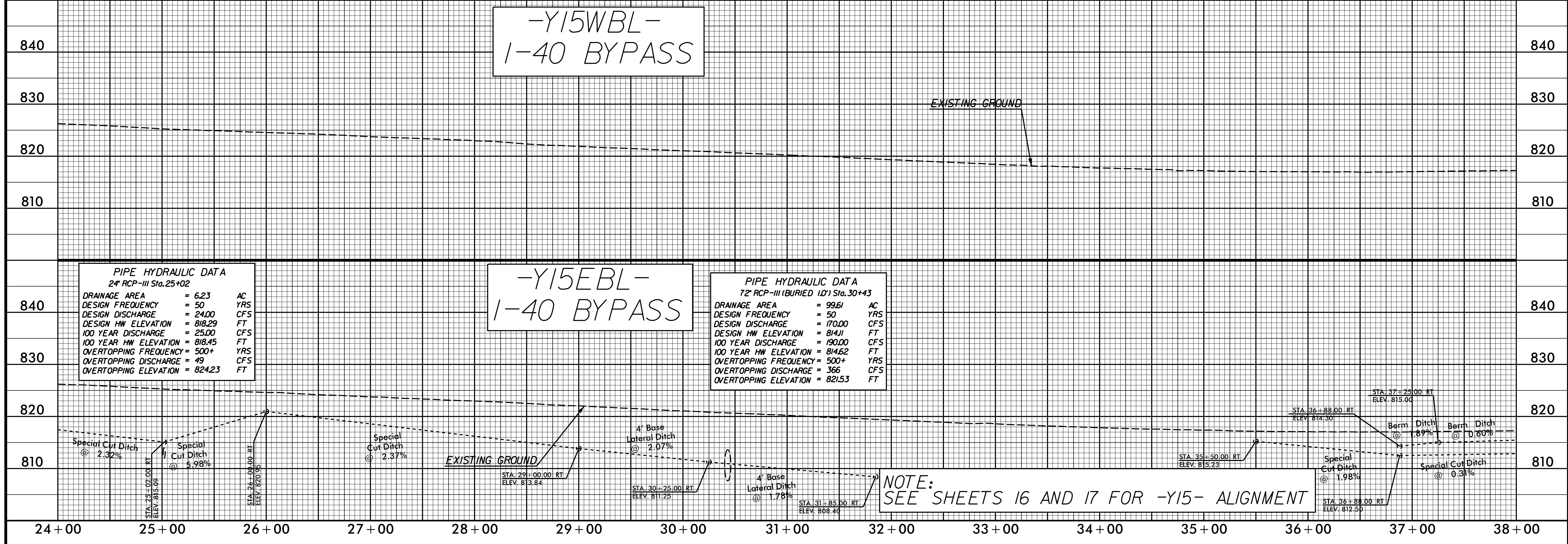
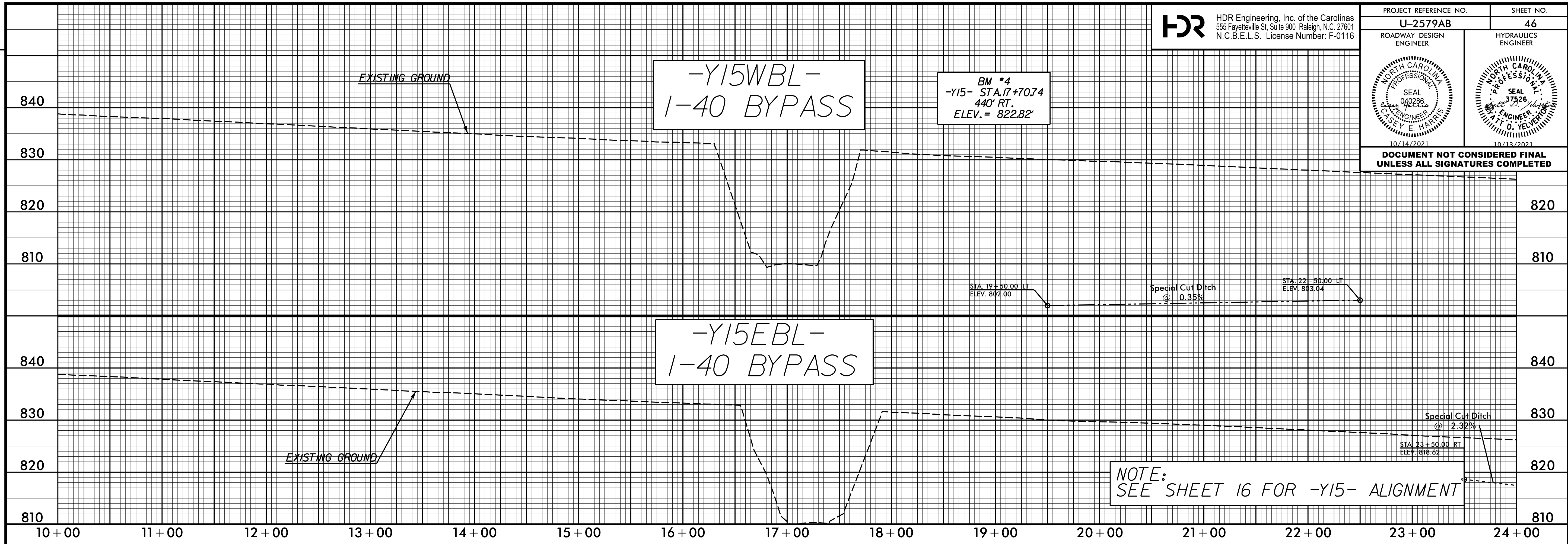








**DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED**



**PIPE HYDRAULIC DATA**  
24" RCP-III Sta. 25+02

DRAINAGE AREA	= 6.23	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 24.00	CFS
DESIGN HW ELEVATION	= 818.29	FT
100 YEAR DISCHARGE	= 25.00	CFS
100 YEAR HW ELEVATION	= 818.45	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 49	CFS
OVERTOPPING ELEVATION	= 824.23	FT

**PIPE HYDRAULIC DATA**  
72" RCP-III (BURIED 10') Sta. 30+43

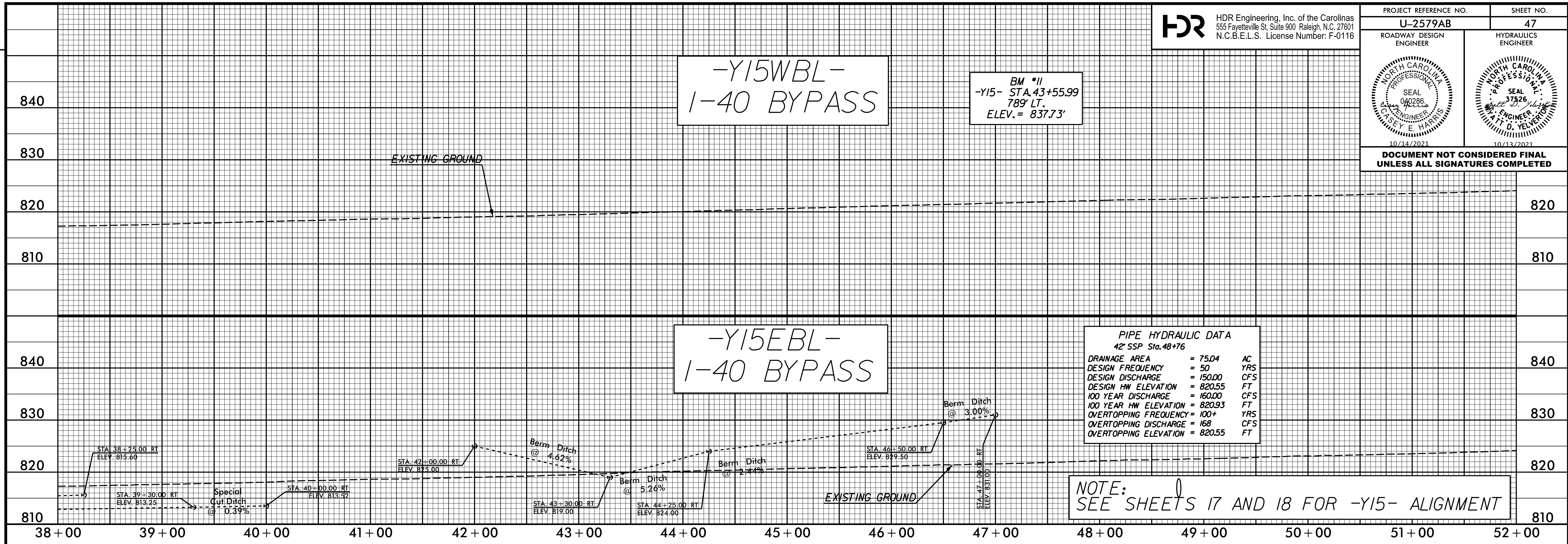
DRAINAGE AREA	= 99.61	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 170.00	CFS
DESIGN HW ELEVATION	= 814.11	FT
100 YEAR DISCHARGE	= 190.00	CFS
100 YEAR HW ELEVATION	= 814.62	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 366	CFS
OVERTOPPING ELEVATION	= 821.53	FT

REVISIONS

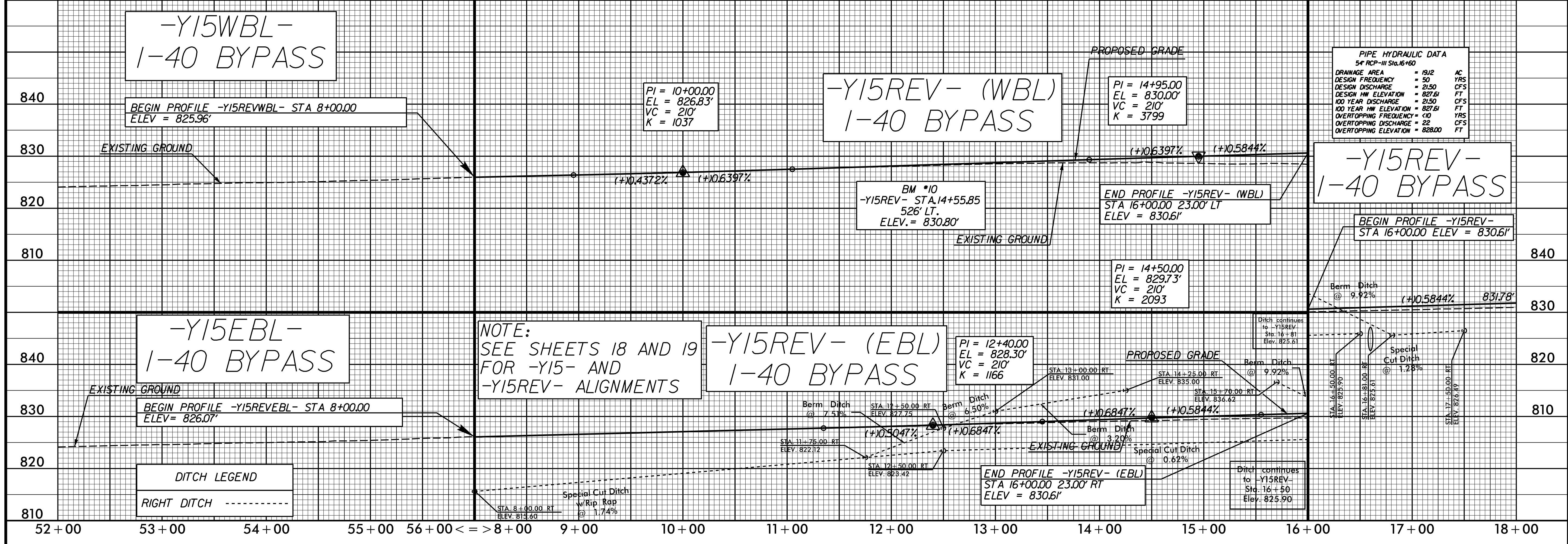
PLOT DRIVER: NCDOT\_pdf\_color\_eng\_50.plt  
 USER: CHARRIS  
 FILE: NCDOT\NCDOT-U2579AB\6.0.CAD.BTM\6.2.Work\In\_Progress\U-2579AB\Roadway\Proj\U2579ab\_rdy\_dsh.plt\_46.dgn

PENTABLE: NCDOT\_pshp.pl\_conventional.tbl  
 DATE: 7/13/2021  
 TIME: 3:22:17 PM





NOTE:  
SEE SHEETS 17 AND 18 FOR -Y15- ALIGNMENT



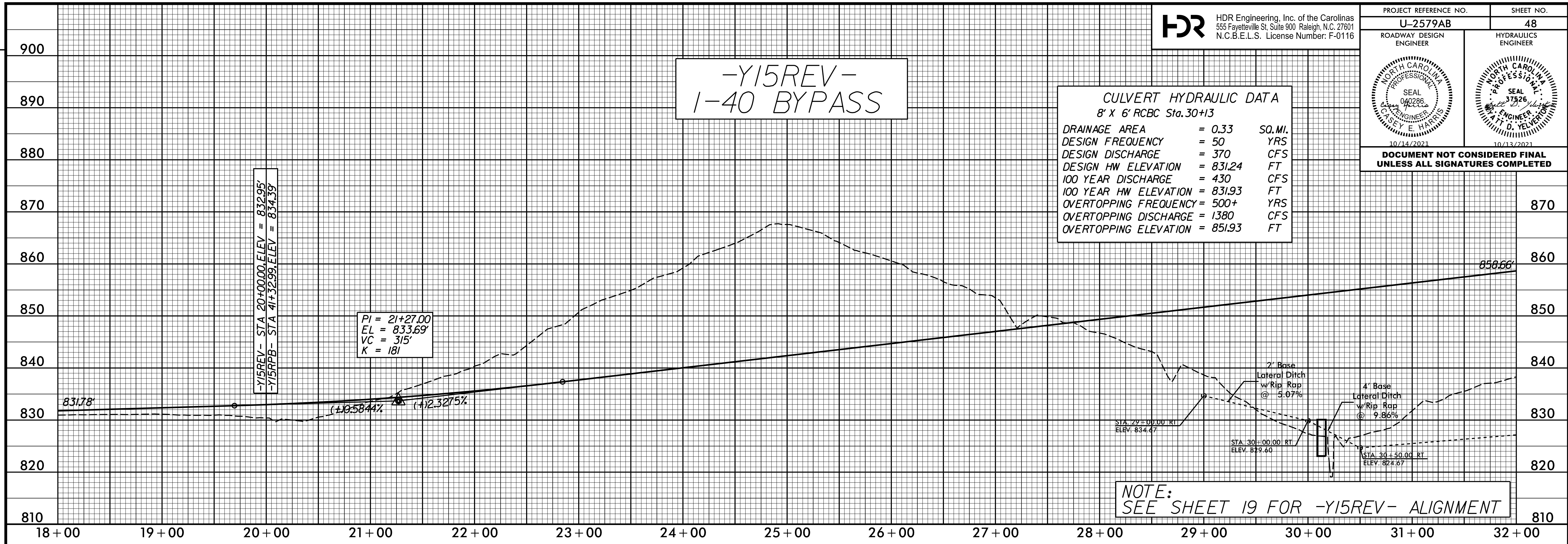
NOTE:  
SEE SHEETS 18 AND 19  
FOR -Y15- AND  
-Y15REV- ALIGNMENTS

DITCH LEGEND  
RIGHT DITCH -----

REVISIONS

PLOT DRIVER: NCDOT\_color\_eng\_50.plt  
USER: SPEREIRA  
DATE: 8/27/2021  
TIME: 1:40:47 PM  
FILE: \



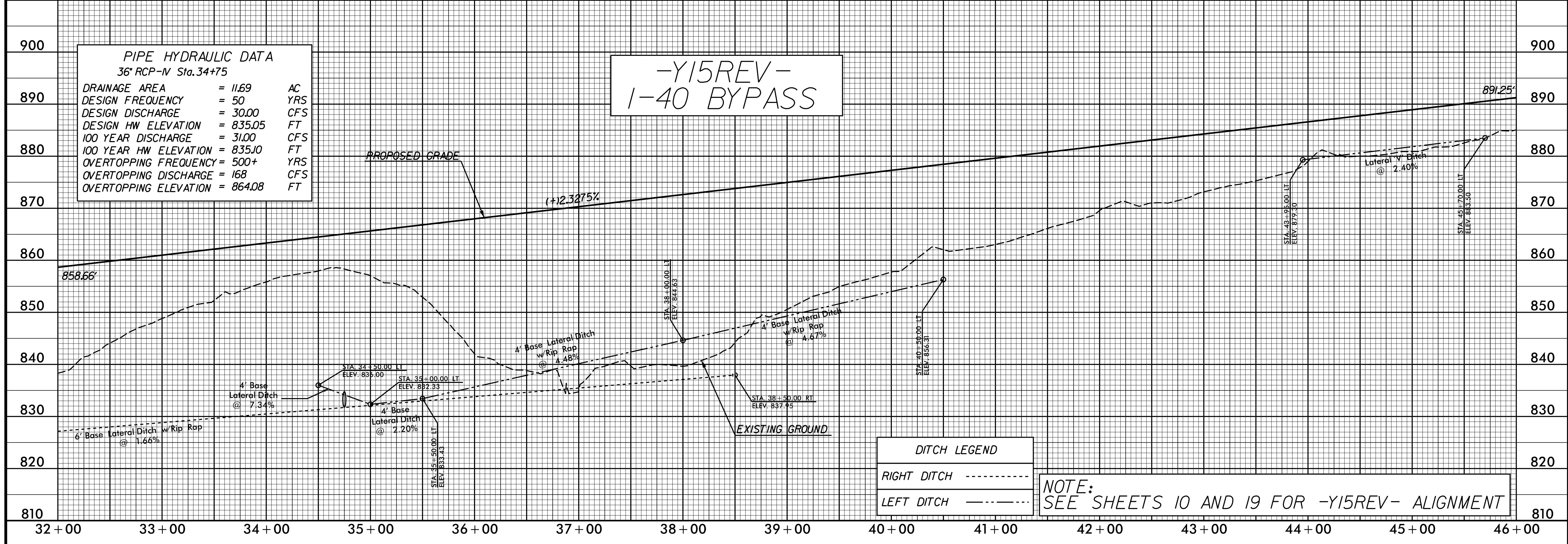


**CULVERT HYDRAULIC DATA**  
8' x 6' RCBC Sta.30+13

DRAINAGE AREA	= 0.33	SQ. MI.
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 370	CFS
DESIGN HW ELEVATION	= 831.24	FT
100 YEAR DISCHARGE	= 430	CFS
100 YEAR HW ELEVATION	= 831.93	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 1380	CFS
OVERTOPPING ELEVATION	= 851.93	FT

**PIPE HYDRAULIC DATA**  
36" RCP-IV Sta.34+75

DRAINAGE AREA	= 11.69	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 30.00	CFS
DESIGN HW ELEVATION	= 835.05	FT
100 YEAR DISCHARGE	= 31.00	CFS
100 YEAR HW ELEVATION	= 835.10	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 168	CFS
OVERTOPPING ELEVATION	= 864.08	FT



**DITCH LEGEND**

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

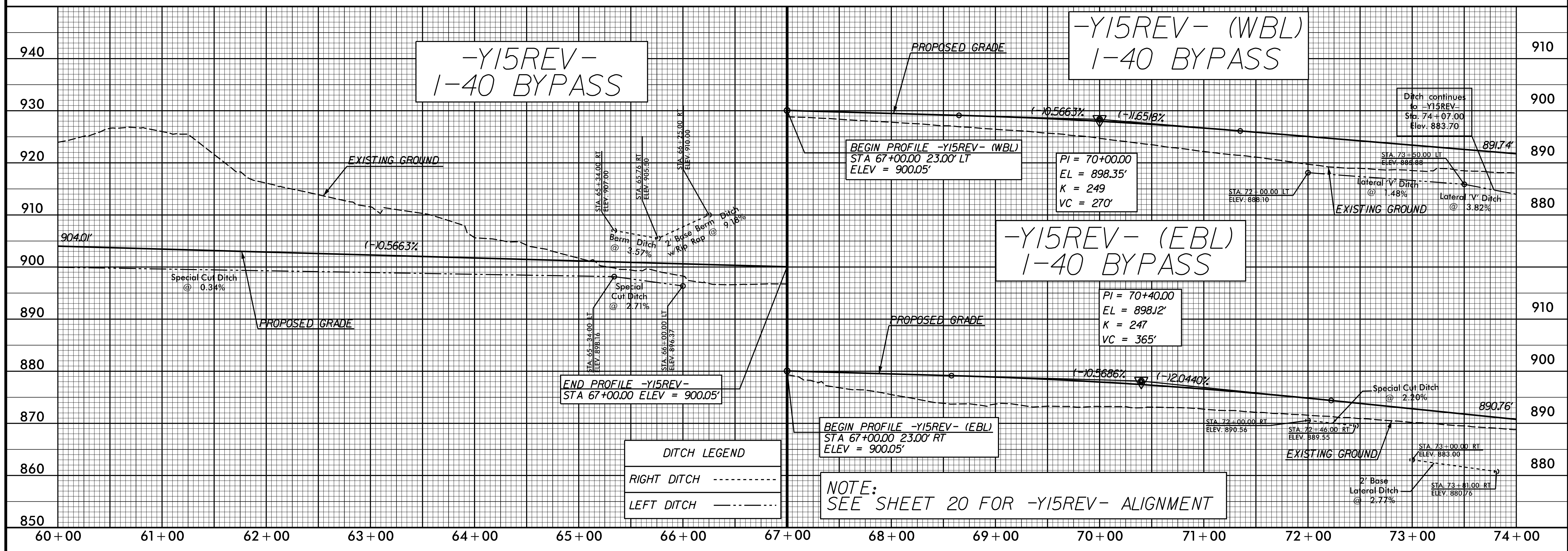
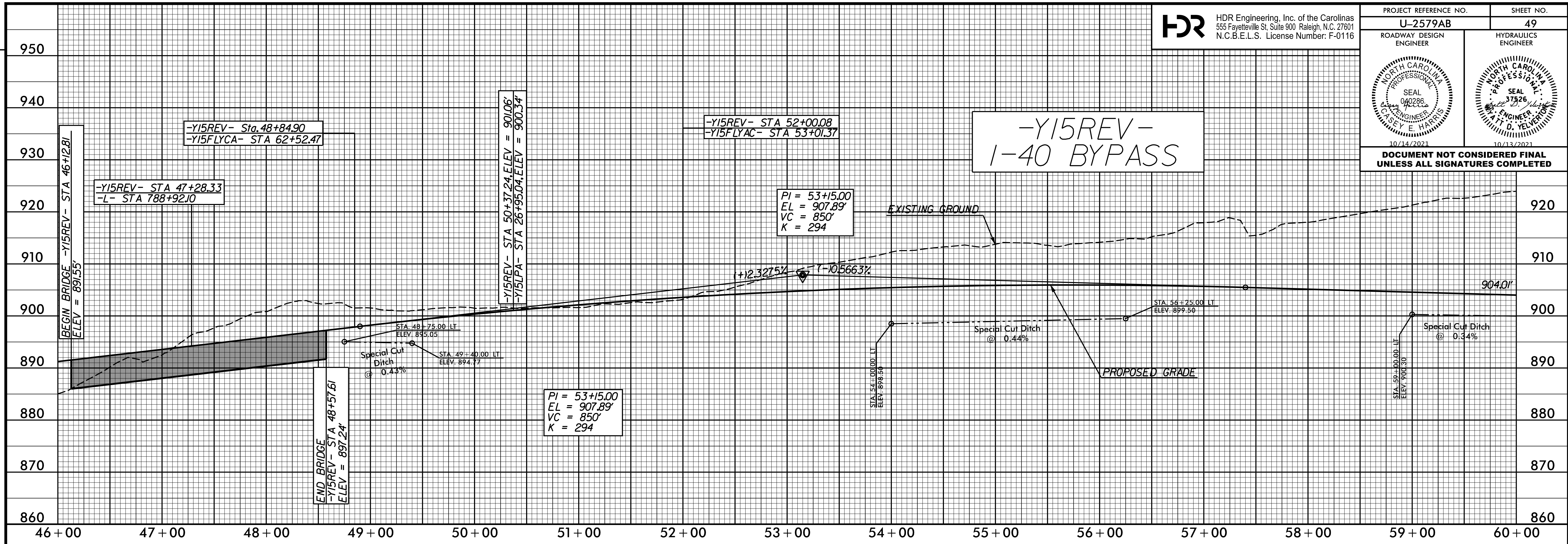
NOTE:  
SEE SHEETS 10 AND 19 FOR -Y15REV- ALIGNMENT

PLOT DRIVER: NCDOT\_color\_eng\_50.plt  
USER: SPEREIRA  
DATE: 8/27/2021  
TIME: 1:40:59 PM  
PENTABLE: NCDOT\_pshpfl.conventional.tbl  
FILE: \

REVISIONS



PROJECT REFERENCE NO. <b>U-2579AB</b>	SHEET NO. <b>49</b>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

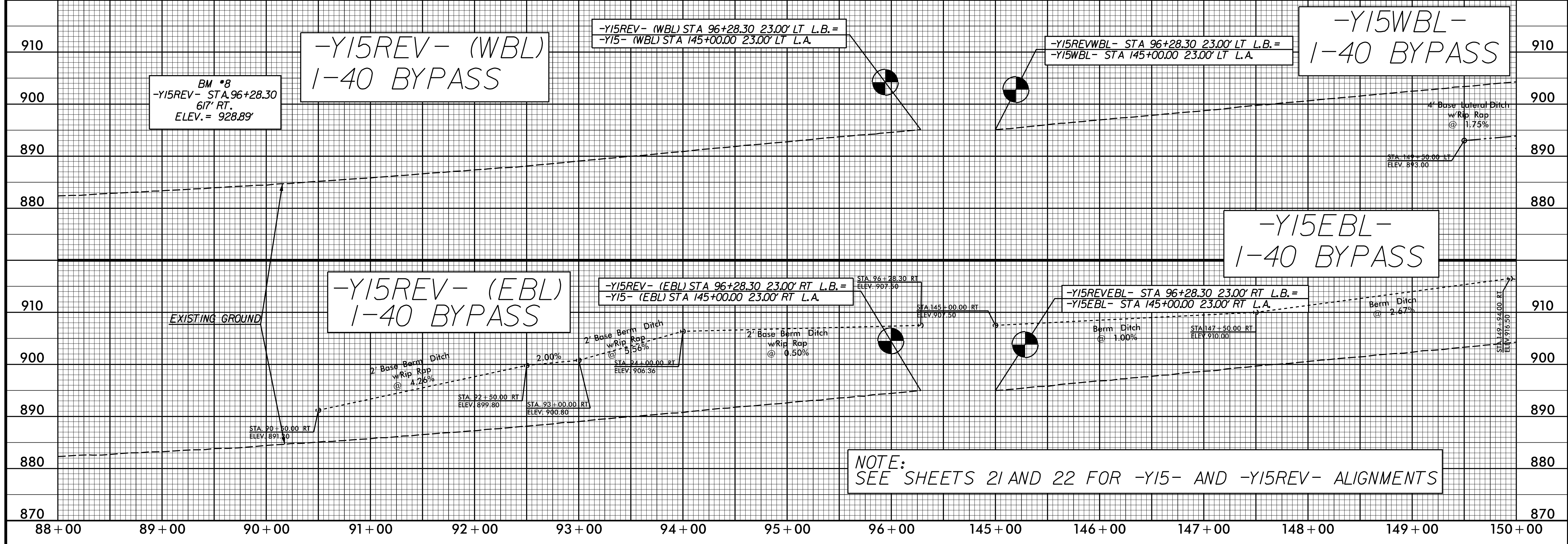
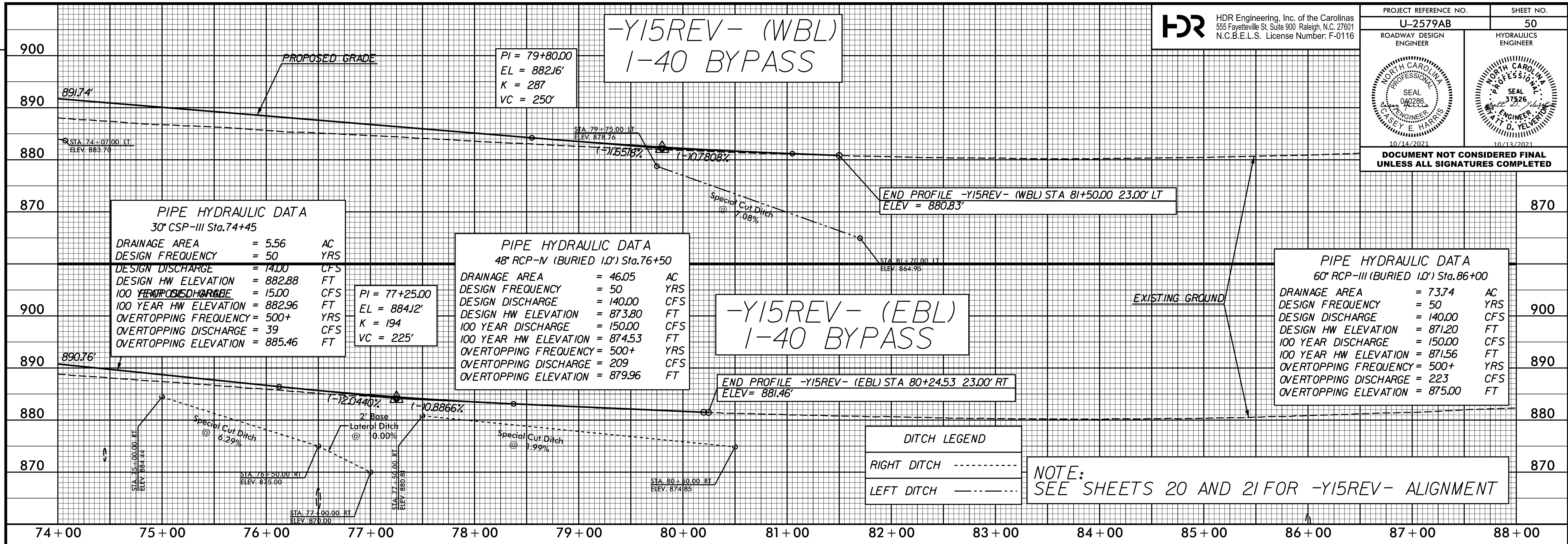


PLOT DRIVER: NCDOT\_color\_eng\_50.plt  
 USER: SPEREIRA  
 FILE: \PENTABLE: NCDOT\_pshpfl.conventional.tbl  
 DATE: 8/27/2021  
 TIME: 1:41:11 PM

REVISIONS



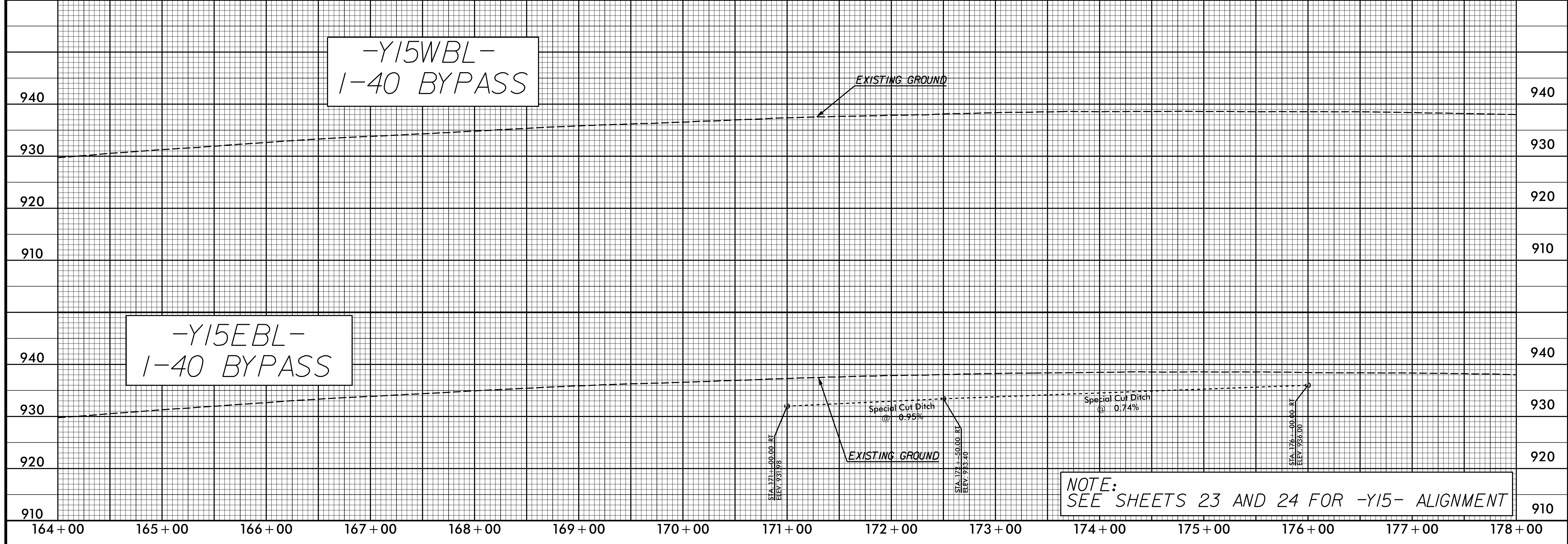
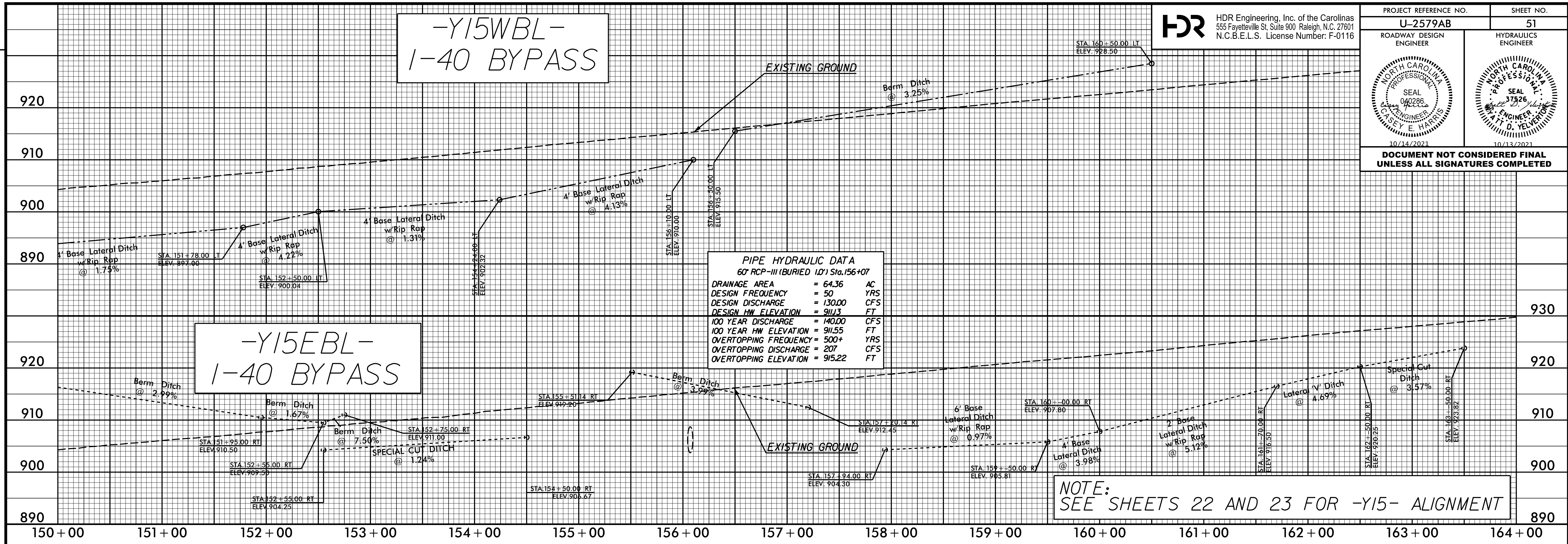
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



PLOT DRIVER: NCDOT\_color\_eng\_50.plt  
USER: SPEREIRA  
DATE: 8/27/2021  
TIME: 1:41:25 PM  
FILE: \

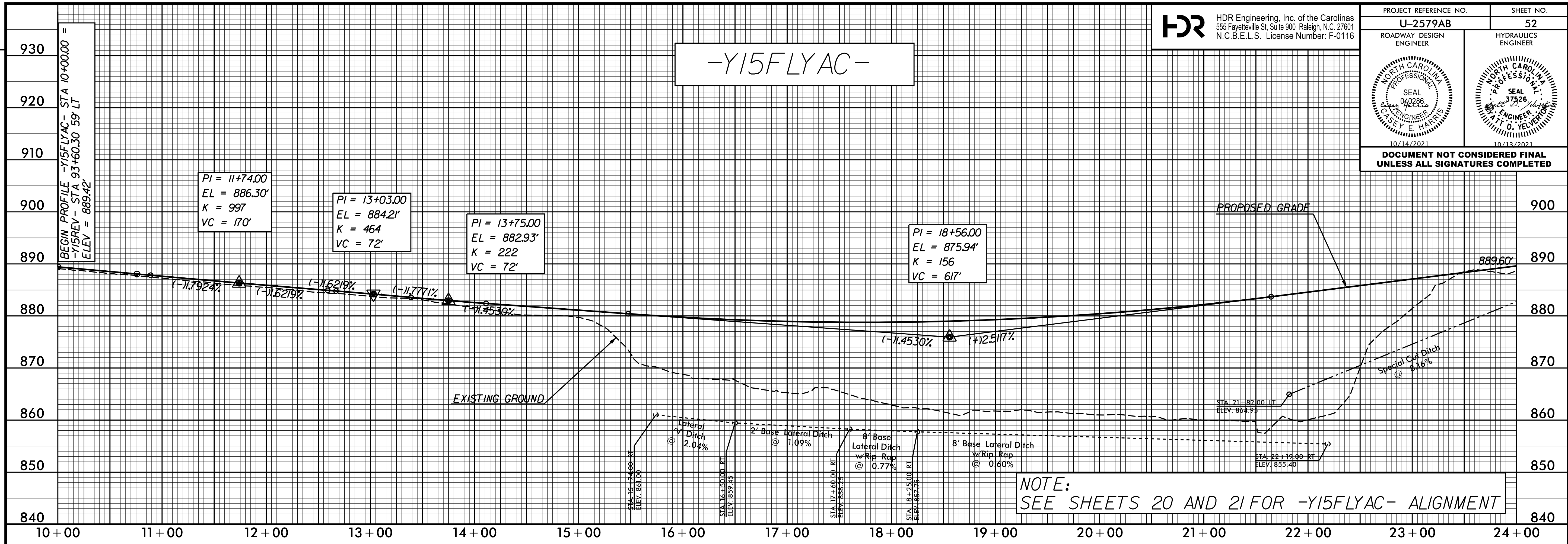
REVISIONS



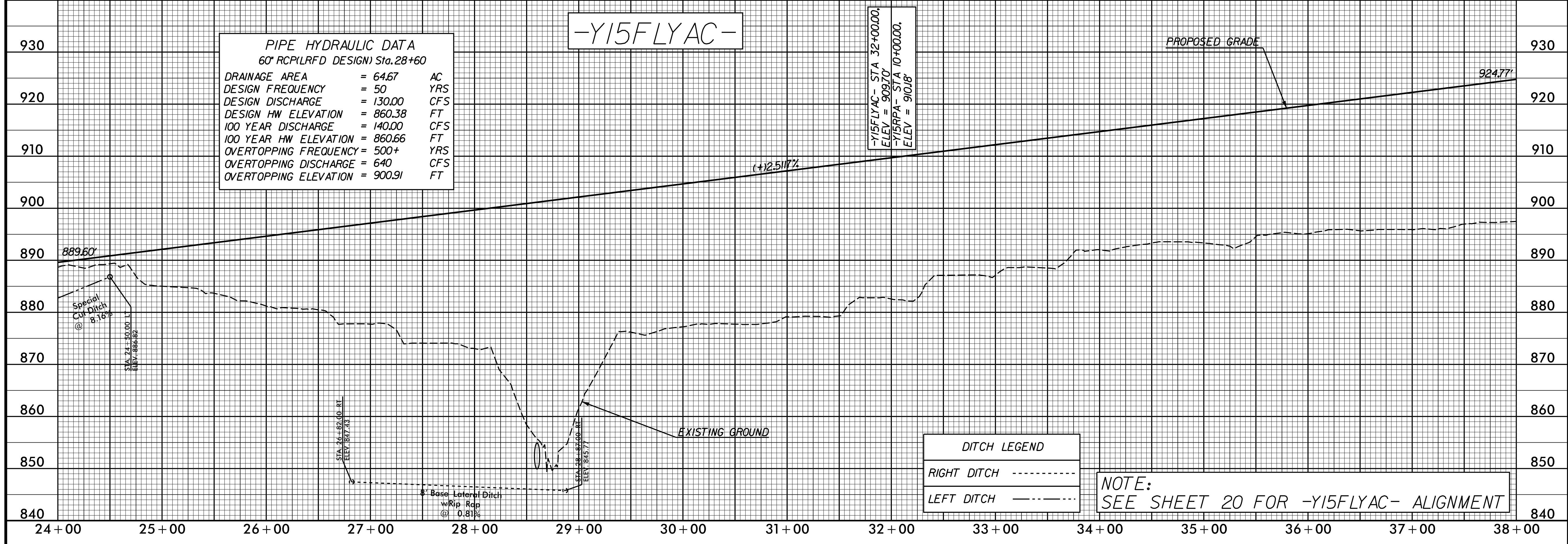


PLOT DRIVER: NCDOT\_ncdot\_color\_eng\_50.plt  
 USER: CHARRIS  
 FILE: NCDOT\NCDOT-U2579AB\6.0.CAD.BTM\6.2.Work\In\_Progress\U-2579AB\Roadway\Proj\U2579ab\_rdy\_dsh.plt.51.dgn  
 PENTABLE: NCDOT\_dshpfl\_conventional.tbl  
 TIME: 3:23:29 PM  
 DATE: 7/13/2021

REVISIONS



NOTE:  
SEE SHEETS 20 AND 21 FOR -Y15FLYAC- ALIGNMENT



**PIPE HYDRAULIC DATA**  
60" RCPLRFD DESIGN Sta. 28+60

DRAINAGE AREA	= 64.67	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 130.00	CFS
DESIGN HW ELEVATION	= 860.38	FT
100 YEAR DISCHARGE	= 140.00	CFS
100 YEAR HW ELEVATION	= 860.66	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 640	CFS
OVERTOPPING ELEVATION	= 900.91	FT

**DITCH LEGEND**

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

NOTE:  
SEE SHEET 20 FOR -Y15FLYAC- ALIGNMENT

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\_psh.plt.52.dgn  
 DATE: 7/13/2021  
 TIME: 3:23:43 PM

REVISIONS



**PIPE HYDRAULIC DATA**  
42" RCP-N Sta.38+75

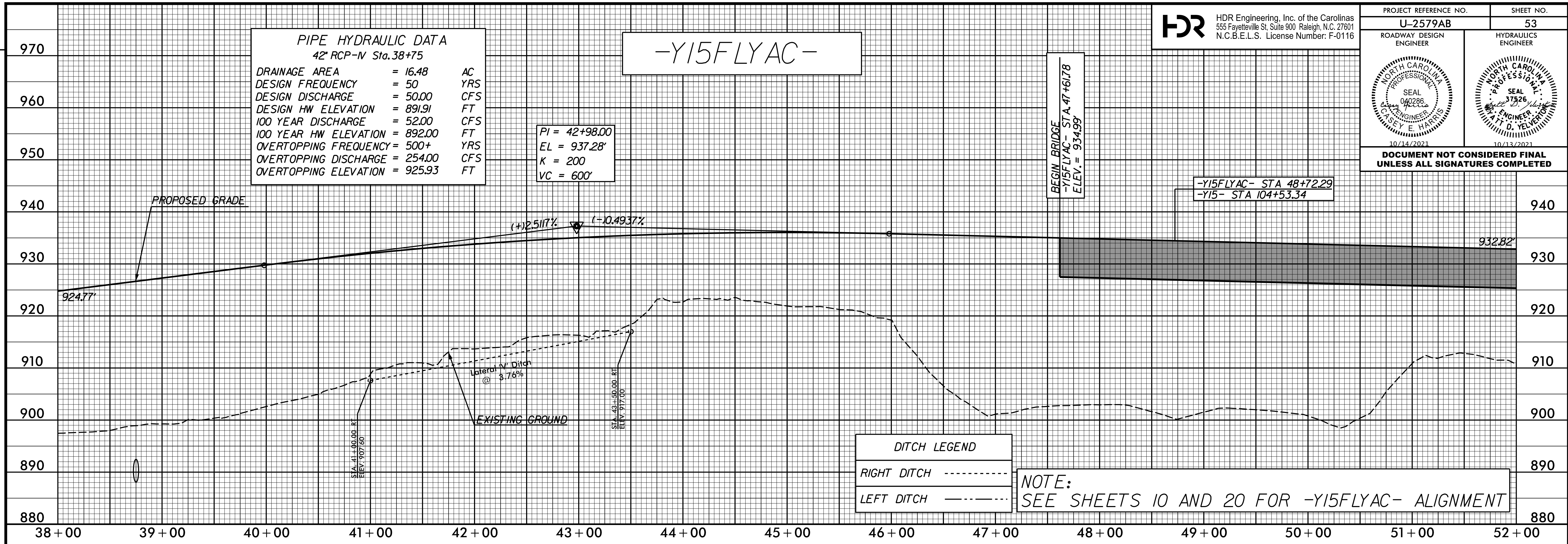
DRAINAGE AREA	= 16.48	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 50.00	CFS
DESIGN HW ELEVATION	= 891.91	FT
100 YEAR DISCHARGE	= 52.00	CFS
100 YEAR HW ELEVATION	= 892.00	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 254.00	CFS
OVERTOPPING ELEVATION	= 925.93	FT

**-Y15FLYAC-**

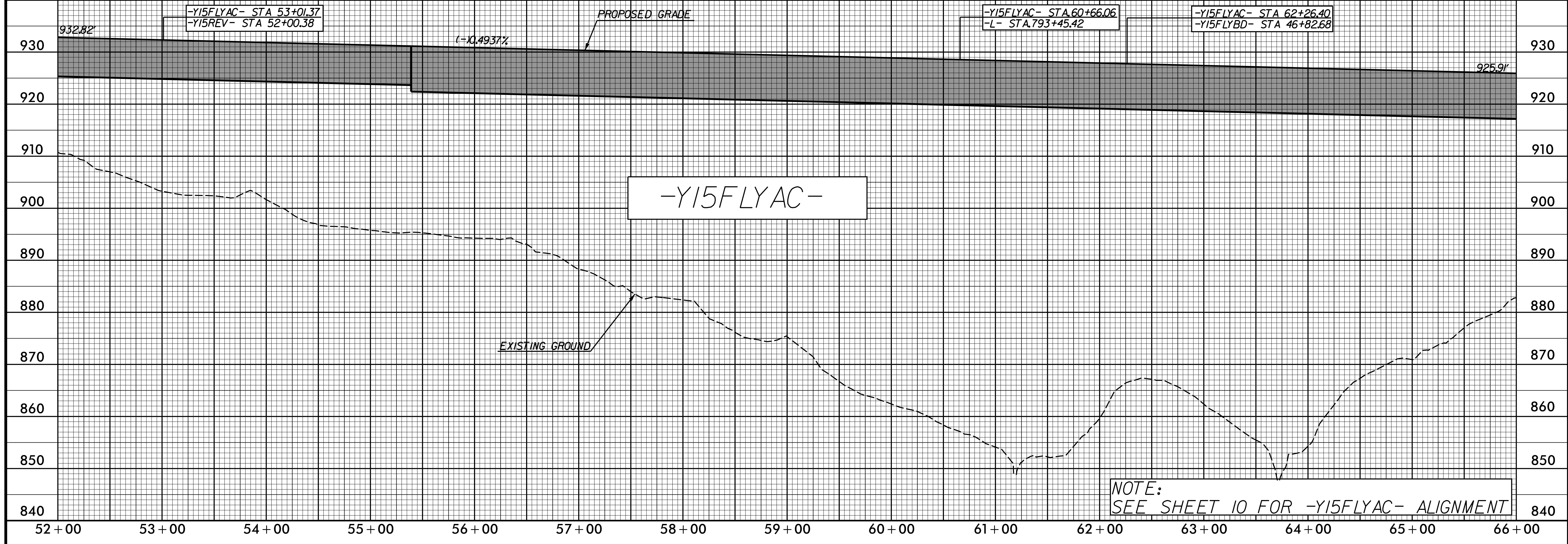
PI = 42+98.00  
EL = 937.28'  
K = 200  
VC = 600'

BEGIN BRIDGE  
-Y15FLYAC- STA 47+61.78  
ELEV. = 934.99'

-Y15FLYAC- STA 48+72.29  
-Y15- STA 104+53.34



**NOTE:**  
SEE SHEETS 10 AND 20 FOR -Y15FLYAC- ALIGNMENT



**-Y15FLYAC-**

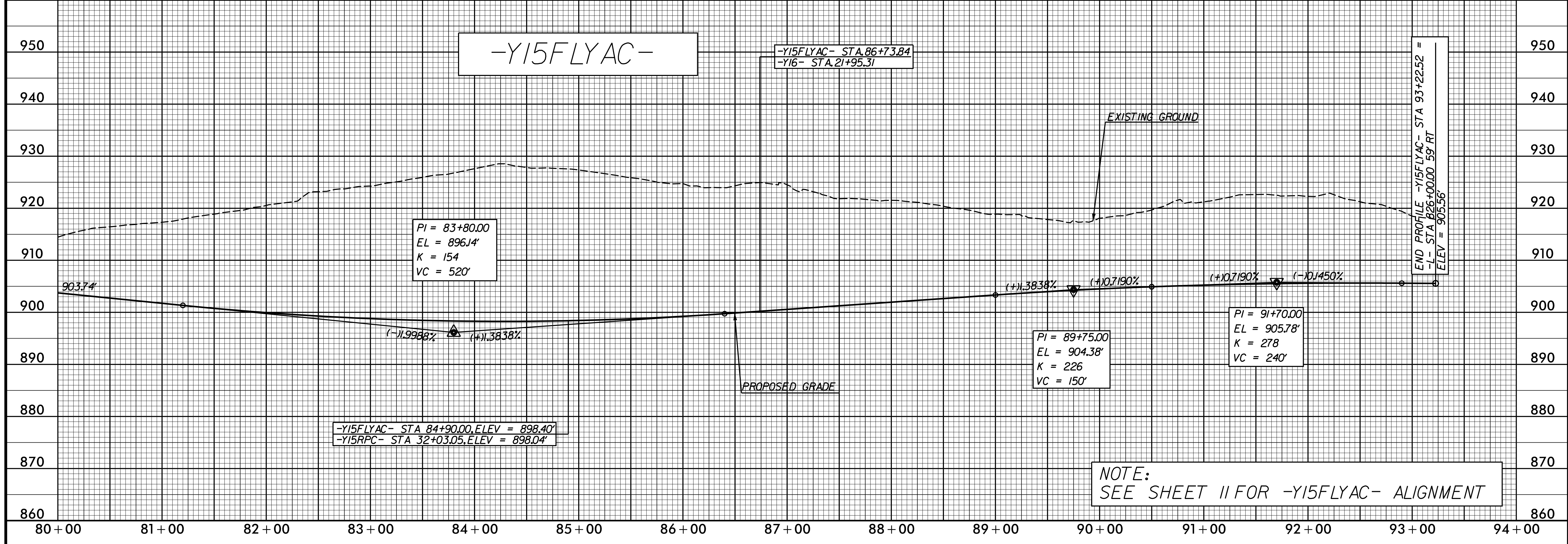
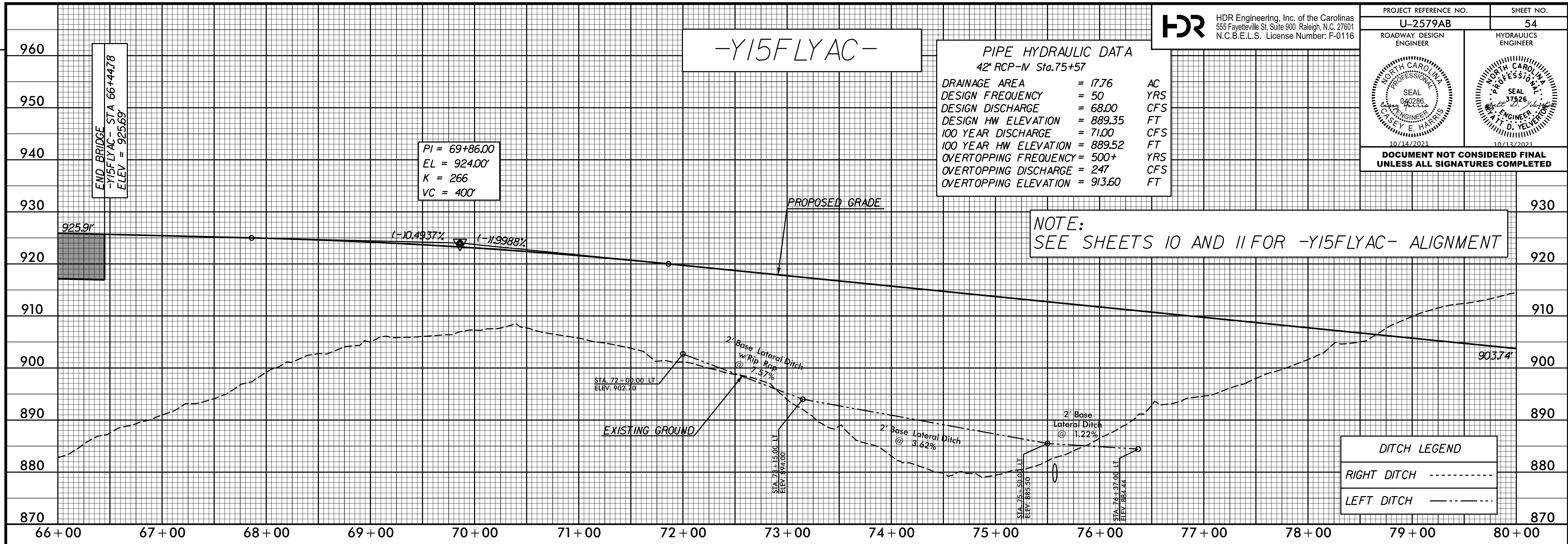
**NOTE:**  
SEE SHEET 10 FOR -Y15FLYAC- ALIGNMENT

PLOT DRIVER: NCDOT\_pcolor\_eng\_50.plt  
 USER: CHARRIS  
 DATE: 7/13/2021  
 TIME: 3:23:55 PM  
 FILE: NCDOT\NCDOT-U2579AB\6.0.CAD.BTM\6.2.Work\In\_Progress\U-2579AB\Roadway\Proj\U2579ab\_rdy\_psh.plt.53.dgn

REVISIONS

**PIPE HYDRAULIC DATA**  
42" RCP-N Sta.75+57

DRAINAGE AREA	= 17.76	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 68.00	CFS
DESIGN HW ELEVATION	= 889.35	FT
100 YEAR DISCHARGE	= 71.00	CFS
100 YEAR HW ELEVATION	= 889.52	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 247	CFS
OVERTOPPING ELEVATION	= 913.60	FT

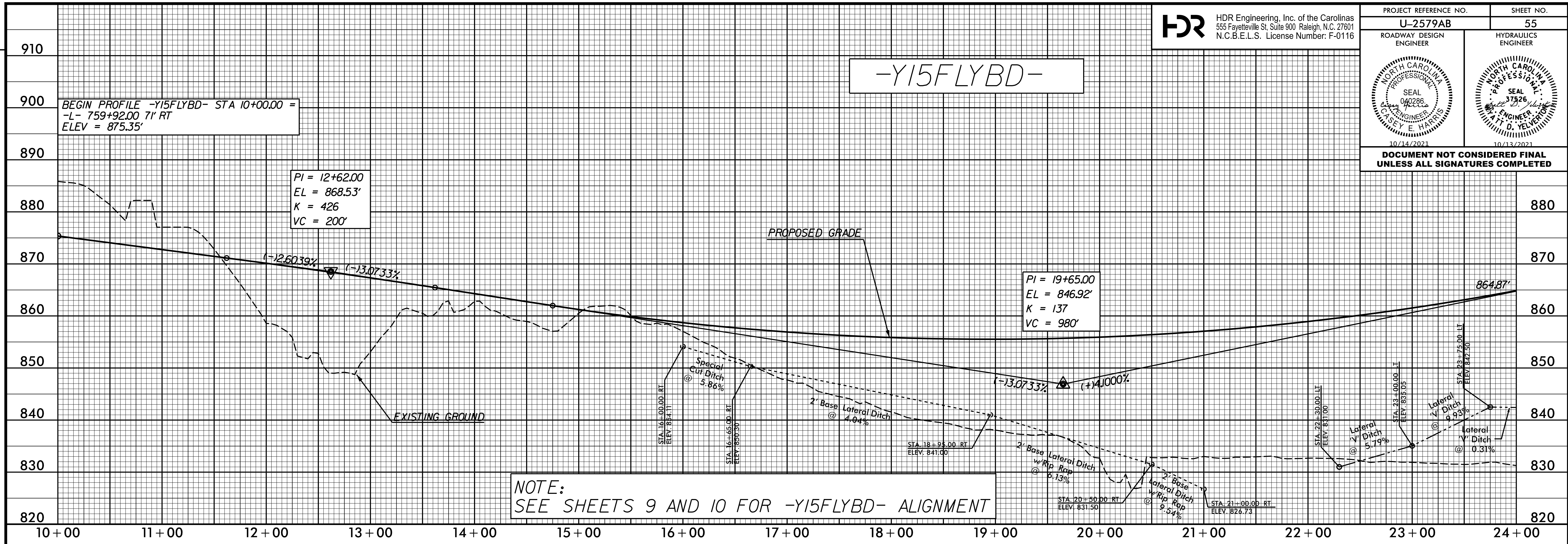


REVISIONS

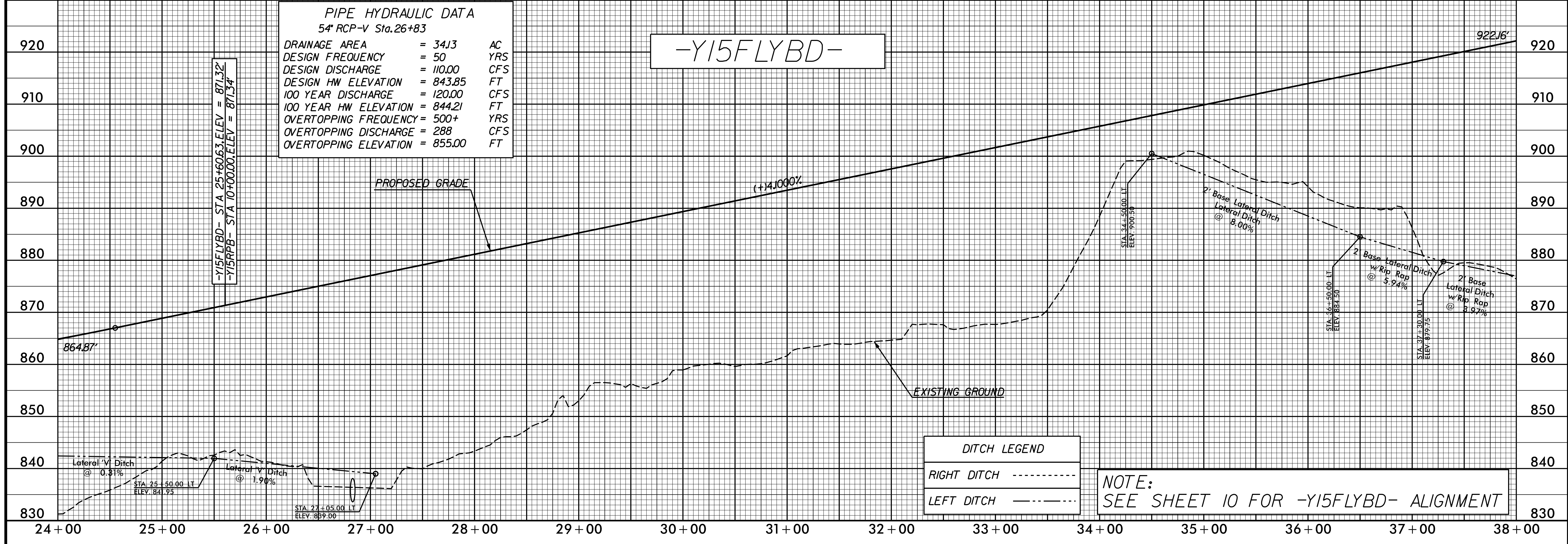
PLOT DRIVER: NCDOT\_color\_eng\_50.plt  
 USER: CHARRIS  
 DATE: 7/13/2021  
 TIME: 3:24:07 PM  
 FILE: NCDOT\NCDOT-U2579AB\6.0.CAD.BTM\6.2.Work\In\_Progress\U-2579AB\Roadway\Proj\U2579ab\_rdy\_dsh.plt.54.dgn



PROJECT REFERENCE NO. <b>U-2579AB</b>	SHEET NO. <b>55</b>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	



NOTE:  
SEE SHEETS 9 AND 10 FOR -Y15FLYBD- ALIGNMENT



**PIPE HYDRAULIC DATA**  
54" RCP-V Sta.26+83

DRAINAGE AREA	= 3413	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 110.00	CFS
DESIGN HW ELEVATION	= 843.85	FT
100 YEAR DISCHARGE	= 120.00	CFS
100 YEAR HW ELEVATION	= 844.21	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 288	CFS
OVERTOPPING ELEVATION	= 855.00	FT

**DITCH LEGEND**

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

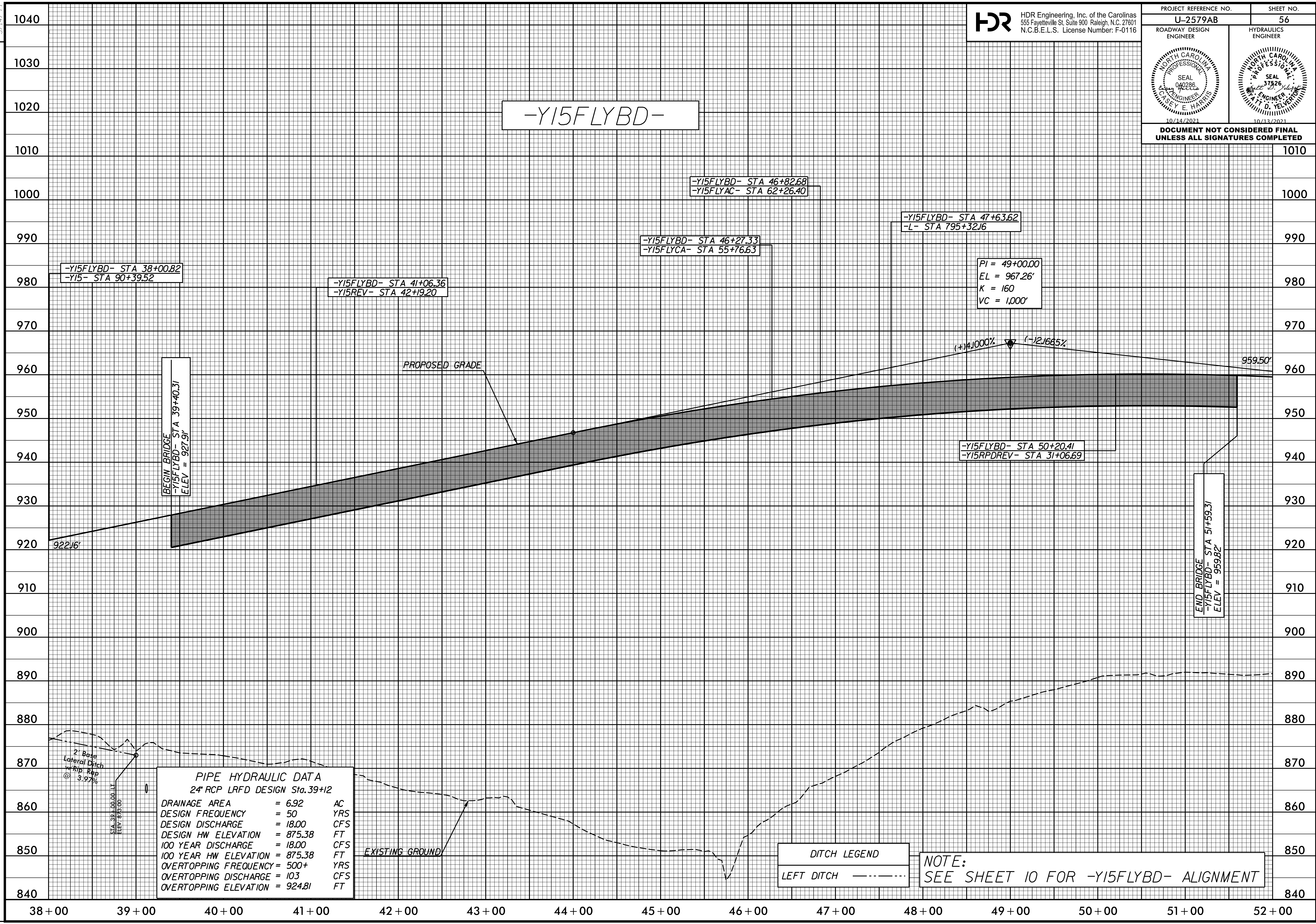
NOTE:  
SEE SHEET 10 FOR -Y15FLYBD- ALIGNMENT

PLOT DRIVER: NCDOT\_ncdot\_color\_eng\_50.plt  
 USER: CHARRIS  
 DATE: 7/13/2021  
 TIME: 3:24:19 PM  
 FILE: NCDOT\NCDOT-U2579AB\6.0.CAD.BTM\6.2.Work\In\_Progress\U-2579AB\Roadway\Proj\U2579ab\_rdy\_dsh.plt.55.dgn

REVISIONS

5/14/21

PROJECT REFERENCE NO. <b>U-2579AB</b>	SHEET NO. <b>56</b>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



**PIPE HYDRAULIC DATA**  
24" RCP LRFD DESIGN Sta. 39+12

DRAINAGE AREA	= 6.92	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 18.00	CFS
DESIGN HW ELEVATION	= 875.38	FT
100 YEAR DISCHARGE	= 18.00	CFS
100 YEAR HW ELEVATION	= 875.38	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 103	CFS
OVERTOPPING ELEVATION	= 924.81	FT

**DITCH LEGEND**

LEFT DITCH	-----
------------	-------

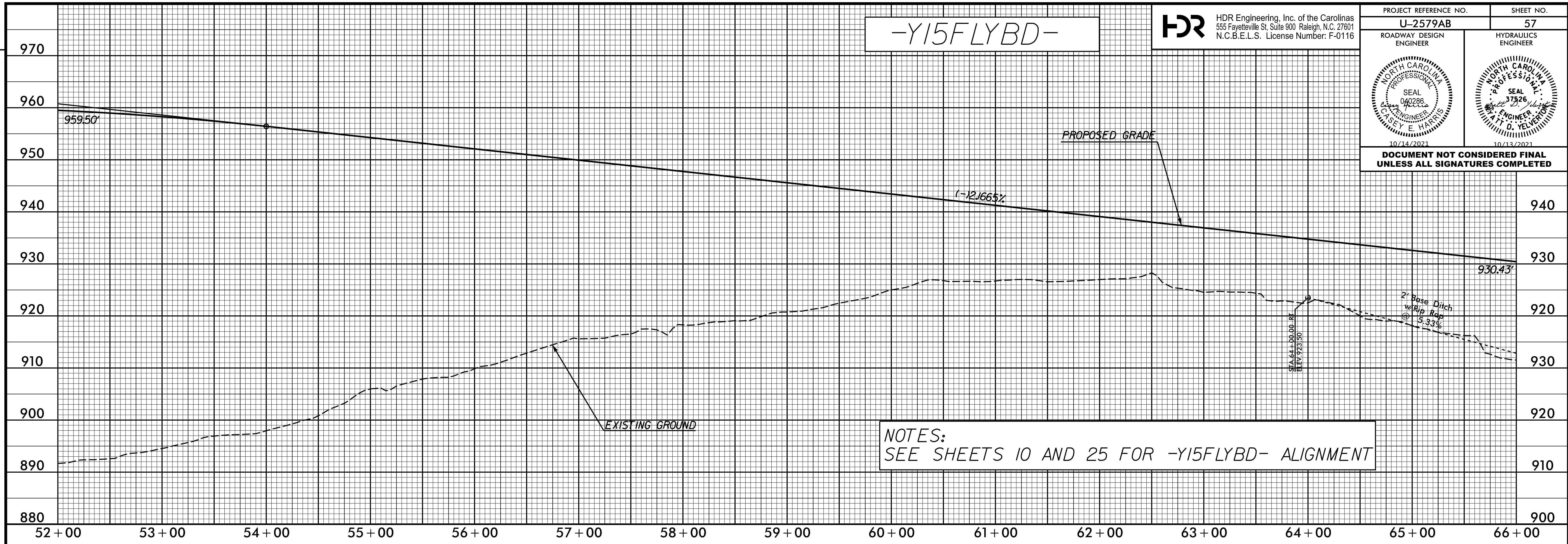
**NOTE:**  
SEE SHEET 10 FOR -Y15FLYBD- ALIGNMENT

PLOT DRIVER: NCDOT...color\_eng\_50.plt  
 USER: CHARRIS  
 DATE: 7/13/2021  
 TIME: 3:24:31 PM  
 FILE: NCDOT\NCDOT-U2579AB\6.0.CAD.BTM\6.2.Work\In\_Progress\U-2579AB\Roadway\Proj\U2579ab\_r\_dy\_psh.plt.56.dgn

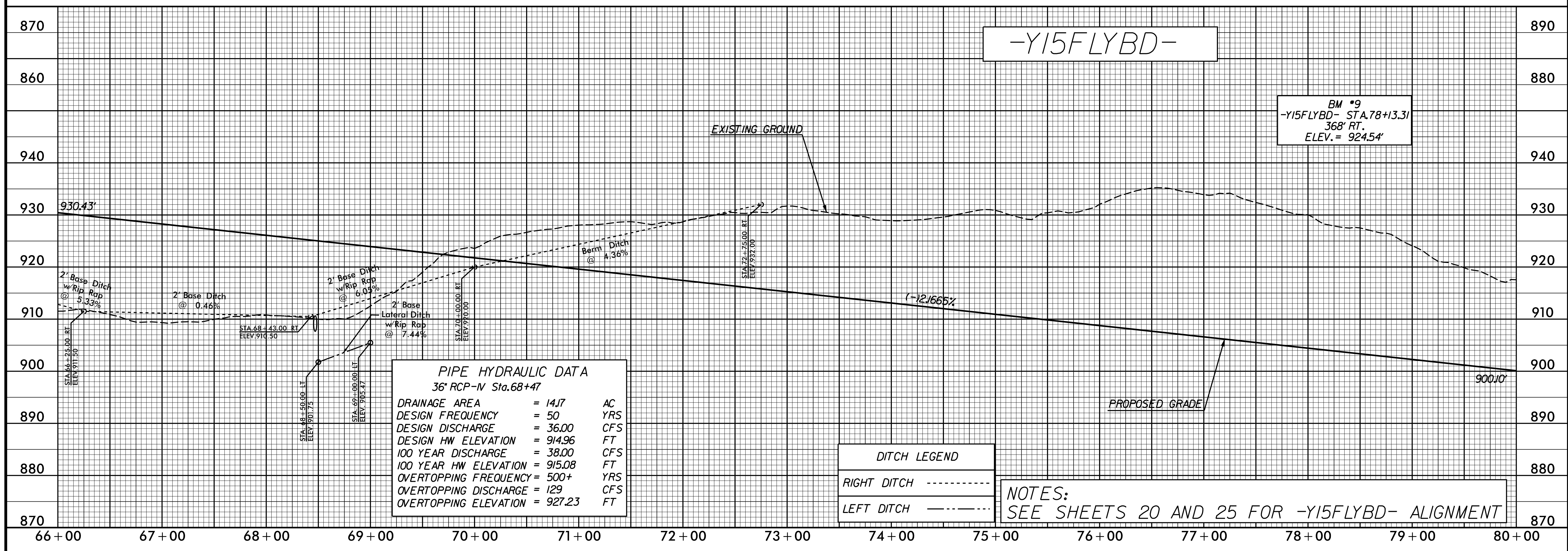
REVISIONS



PROJECT REFERENCE NO. <b>U-2579AB</b>	SHEET NO. <b>57</b>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



NOTES:  
SEE SHEETS 10 AND 25 FOR -Y15FLYBD- ALIGNMENT



**PIPE HYDRAULIC DATA**  
36" RCP-IV Sta.68+47

DRAINAGE AREA	= 14.7	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 36.00	CFS
DESIGN HW ELEVATION	= 914.96	FT
100 YEAR DISCHARGE	= 38.00	CFS
100 YEAR HW ELEVATION	= 915.08	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 129	CFS
OVERTOPPING ELEVATION	= 927.23	FT

**DITCH LEGEND**

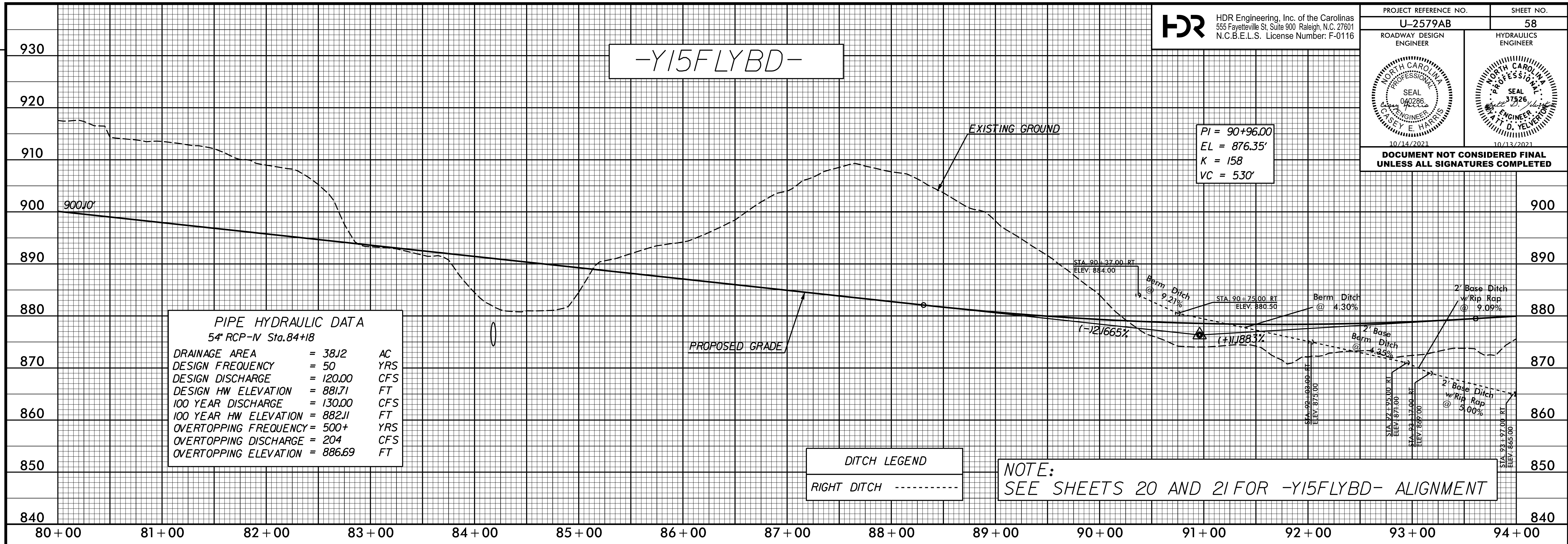
RIGHT DITCH	-----
LEFT DITCH	-----

NOTES:  
SEE SHEETS 20 AND 25 FOR -Y15FLYBD- ALIGNMENT

REVISIONS

PLOT DRIVER: NCDOT...color\_eng\_50.plt  
 USER: CHARRIS  
 DATE: 7/13/2021  
 TIME: 3:24:43 PM  
 FILE: NCDOT\NCDOT-U2579AB\6.0.CAD.BTM\6.2.Work\In\_Progress\U-2579AB\Roadway\Proj\U2579ab\_rdy\_psh.plt.57.dgn

PENTABLE: NCDOT\_pshpfl.conventional.tbl

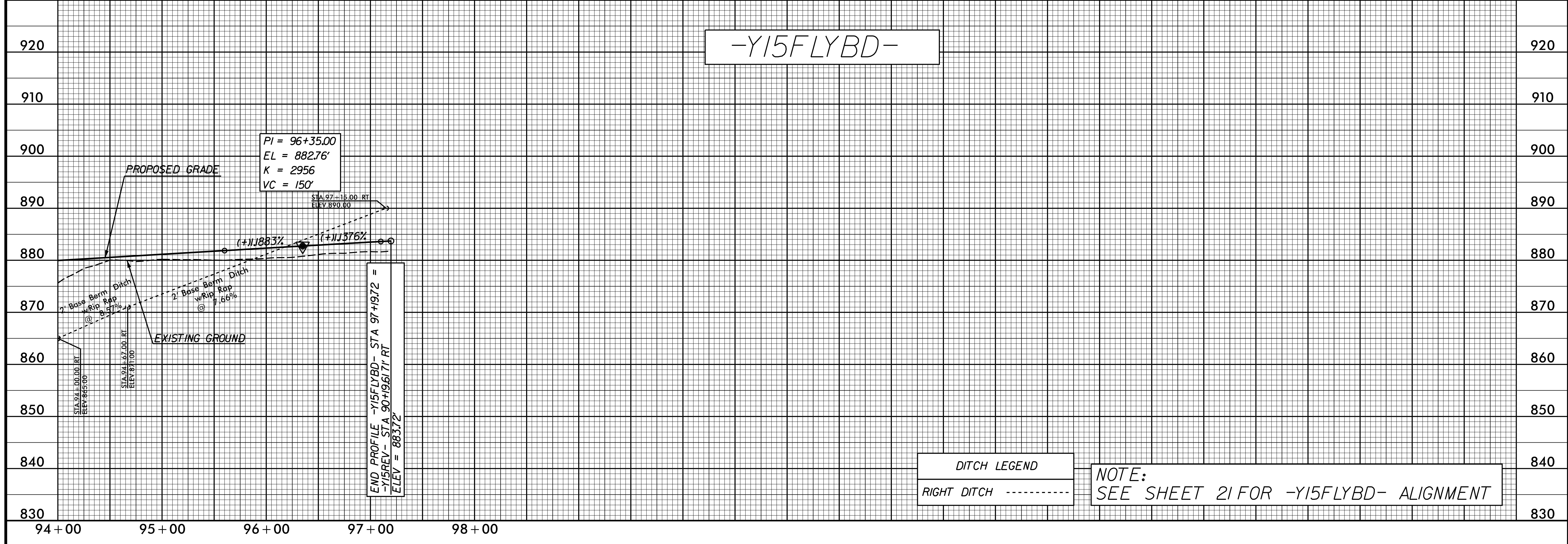


**PIPE HYDRAULIC DATA**  
54" RCP-N Sta.84+18

DRAINAGE AREA	= 38.12	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 120.00	CFS
DESIGN HW ELEVATION	= 881.71	FT
100 YEAR DISCHARGE	= 130.00	CFS
100 YEAR HW ELEVATION	= 882.11	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 204	CFS
OVERTOPPING ELEVATION	= 886.69	FT

**DITCH LEGEND**  
RIGHT DITCH -----

**NOTE:**  
SEE SHEETS 20 AND 21 FOR -Y15FLYBD- ALIGNMENT



END PROFILE -Y15FLYBD- STA 97+19.72 =  
-Y15REV- STA 90+196.71 RT  
ELEV = 883.72'

**DITCH LEGEND**  
RIGHT DITCH -----

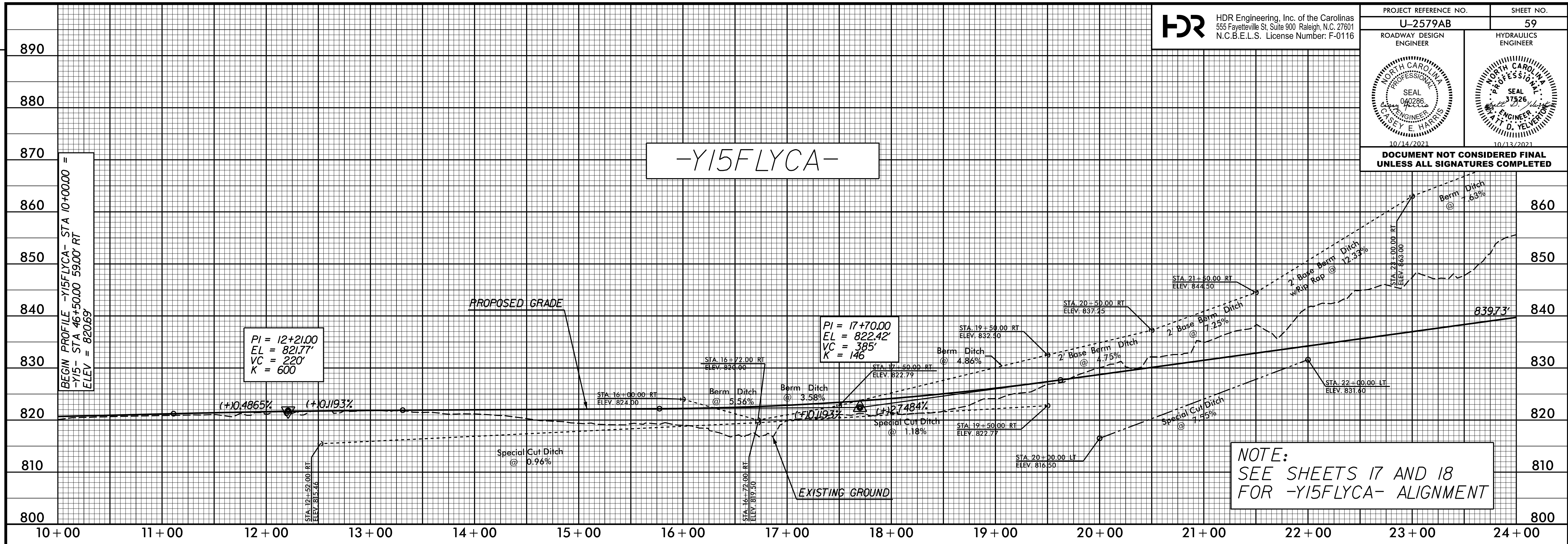
**NOTE:**  
SEE SHEET 21 FOR -Y15FLYBD- ALIGNMENT

PLOT DRIVER: NCDOT\_pnf\_color\_eng\_50.plt  
USER: CHARRIS  
DATE: 7/13/2021  
TIME: 3:24:55 PM  
FILE: NCDOT\NCDOT-U2579AB\6.0.CAD.BTM\6.2.Work\In\_Progress\U-2579AB\Roadway\Proj\U2579ab\_rdy\_psh.plt.58.dgn

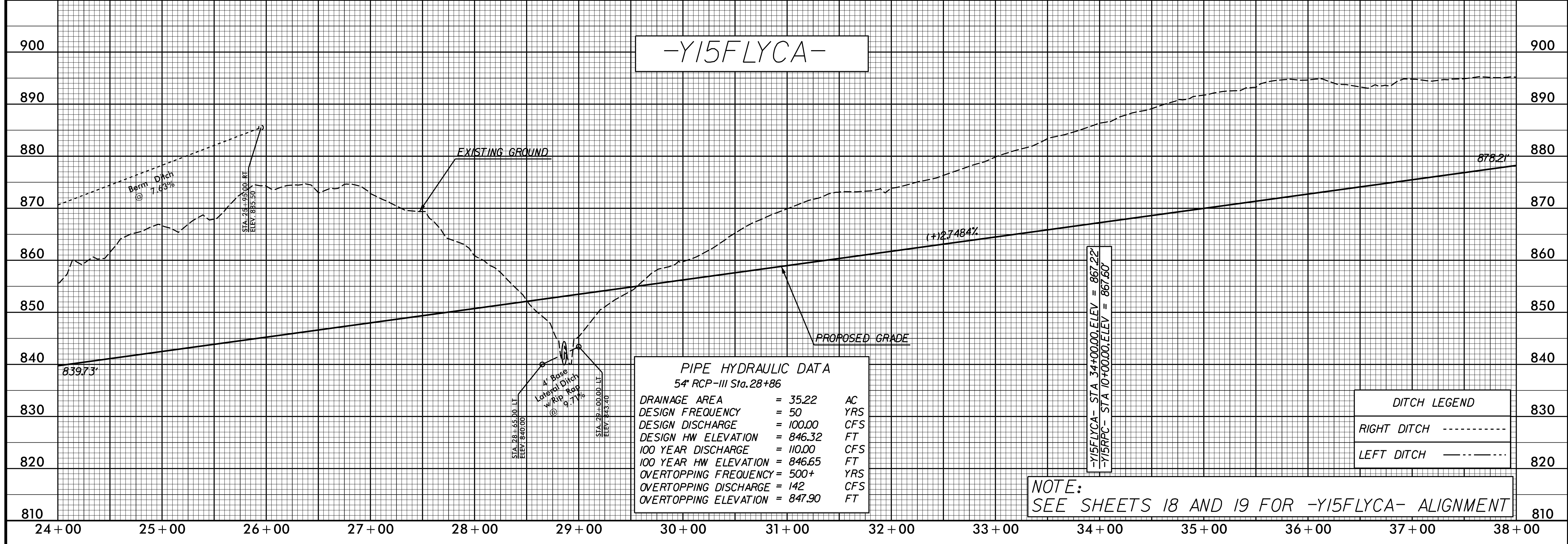
REVISIONS



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



**NOTE:**  
SEE SHEETS 17 AND 18  
FOR -Y15FLYCA- ALIGNMENT



**PIPE HYDRAULIC DATA**  
54" RCP-III Sta. 28+86

DRAINAGE AREA	= 35.22	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 100.00	CFS
DESIGN HW ELEVATION	= 846.32	FT
100 YEAR DISCHARGE	= 110.00	CFS
100 YEAR HW ELEVATION	= 846.65	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 142	CFS
OVERTOPPING ELEVATION	= 847.90	FT

**DITCH LEGEND**

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

**NOTE:**  
SEE SHEETS 18 AND 19 FOR -Y15FLYCA- ALIGNMENT

PLOT DRIVER: NCDOT\_color\_eng\_50.plt  
 USER: CHARRIS  
 DATE: 7/13/2021  
 TIME: 3:25:07 PM  
 FILE: NCDOT\NCDOT-U2579AB\6.0.CAD.BTM\6.2.Work\In\_Progress\U-2579AB\Roadway\Proj\U2579ab\_rdy\_psh.plt.59.dgn

REVISIONS

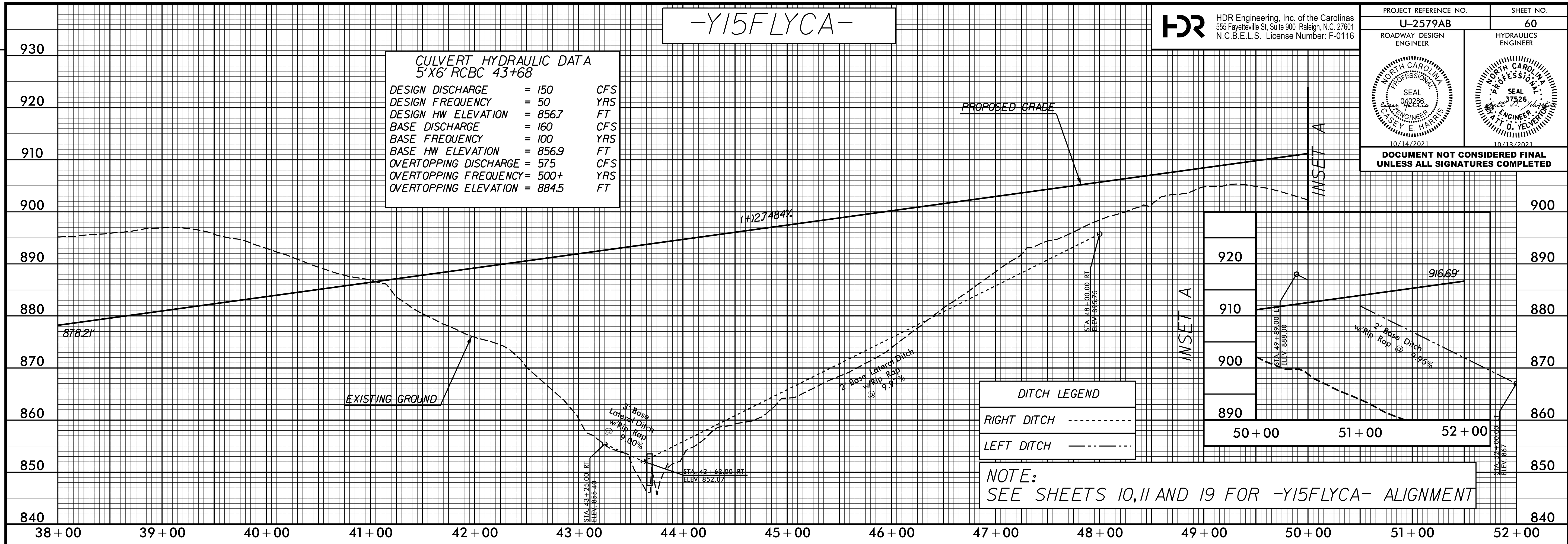
# -Y15FLYCA-

**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

PROJECT REFERENCE NO. <b>U-2579AB</b>	SHEET NO. <b>60</b>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

**CULVERT HYDRAULIC DATA**  
5'X6' RCBC 43+68

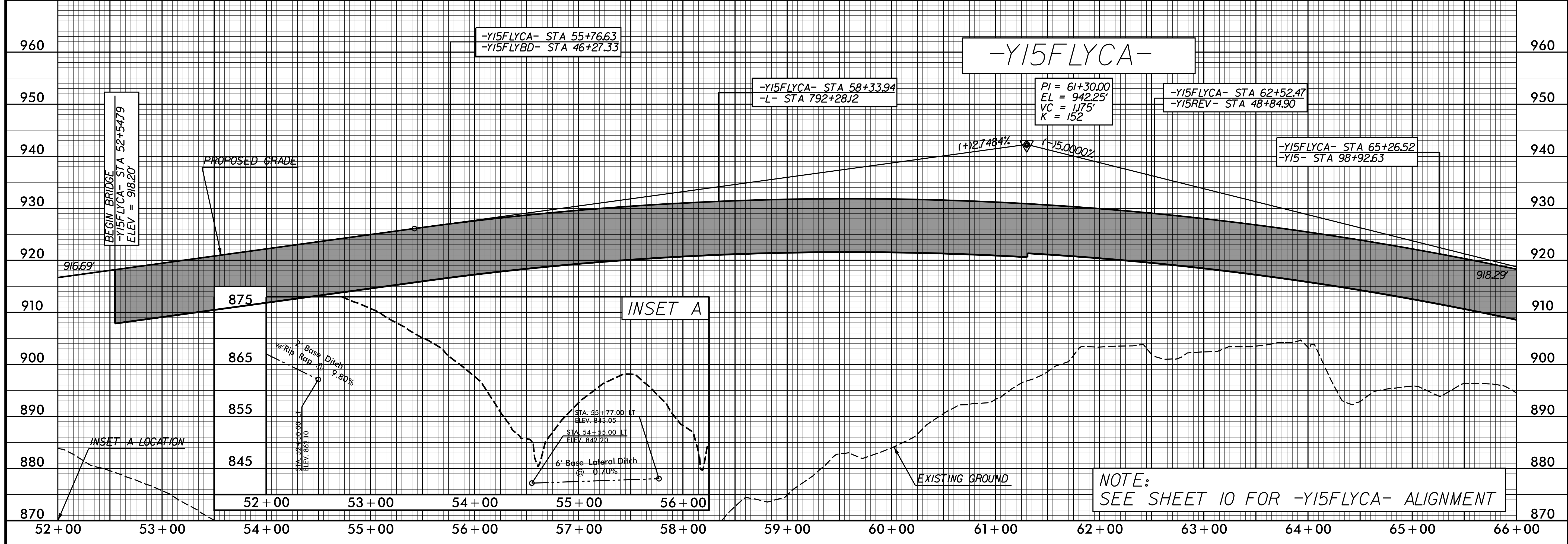
DESIGN DISCHARGE	= 150	CFS
DESIGN FREQUENCY	= 50	YRS
DESIGN HW ELEVATION	= 856.7	FT
BASE DISCHARGE	= 160	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 856.9	FT
OVERTOPPING DISCHARGE	= 575	CFS
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING ELEVATION	= 884.5	FT



**DITCH LEGEND**

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

**NOTE:**  
SEE SHEETS 10, 11 AND 19 FOR -Y15FLYCA- ALIGNMENT



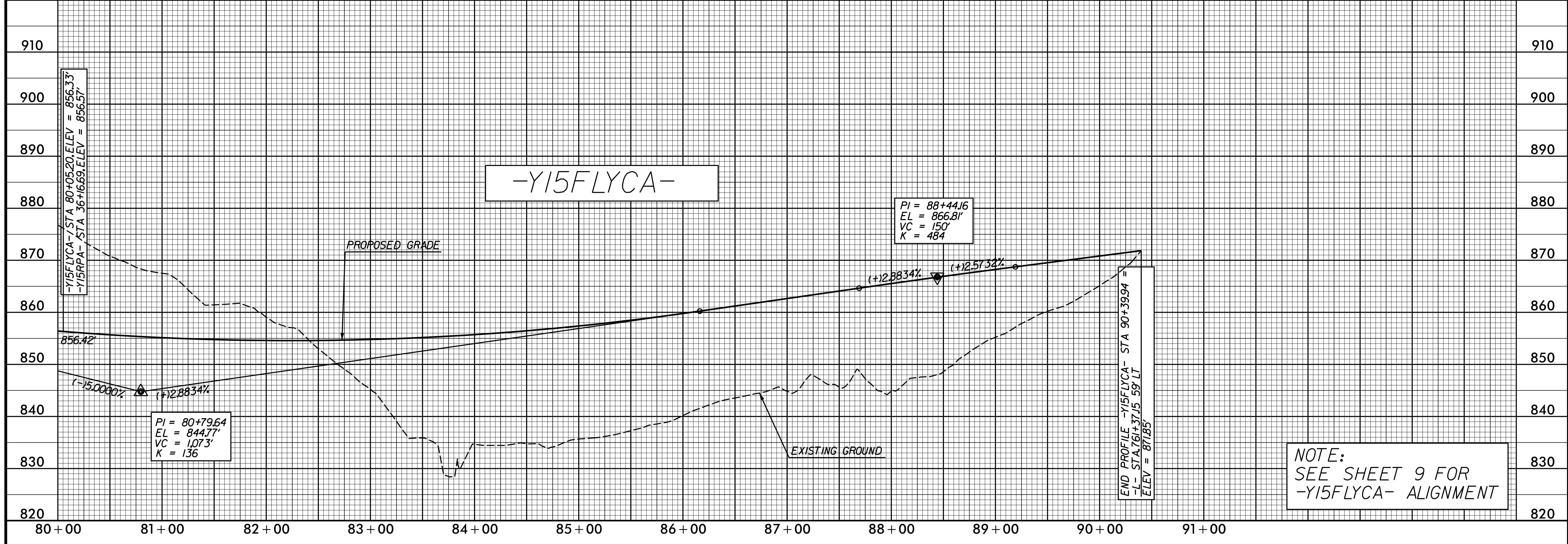
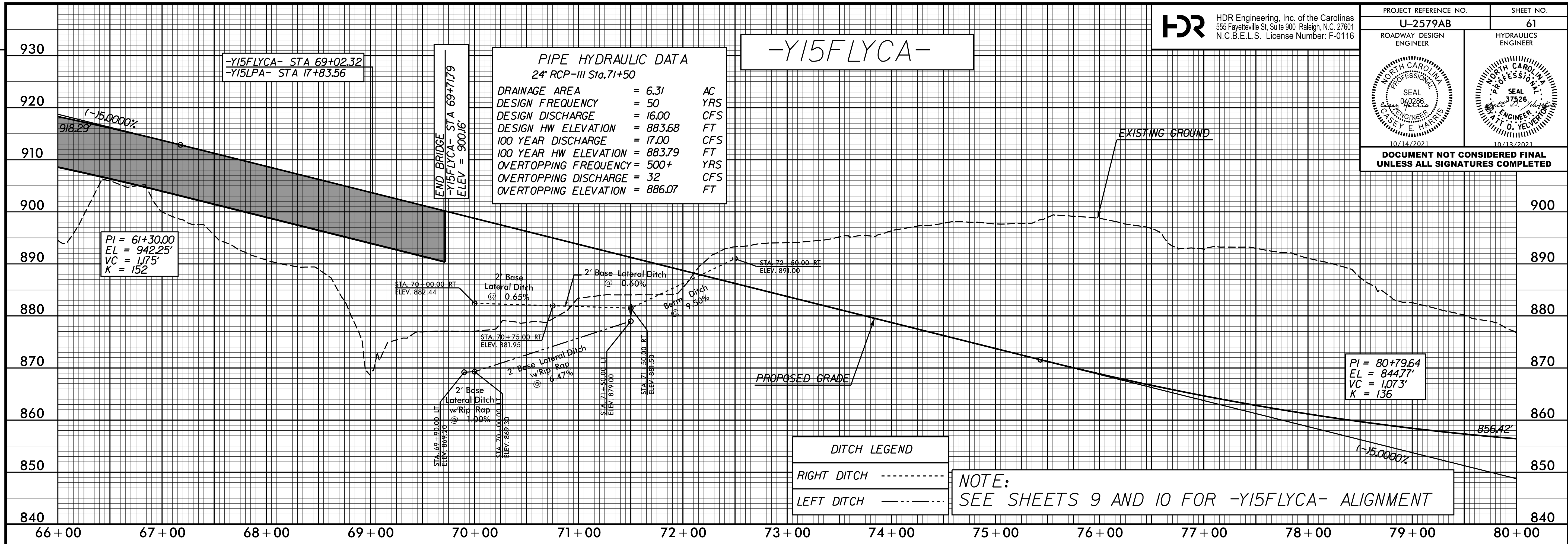
**NOTE:**  
SEE SHEET 10 FOR -Y15FLYCA- ALIGNMENT

REVISIONS

PLOT DRIVER: NCDOT\_color\_eng\_50.plt  
 USER: CHARRIS  
 DATE: 7/13/2021  
 TIME: 3:25:19 PM  
 FILE: NCDOT\NCDOT-U2579AB\6.0.CAD.BTM\6.2.Work\In\_Progress\U-2579AB\Roadway\Prj\U2579ab\_rdy\_psh.plt.60.dgn



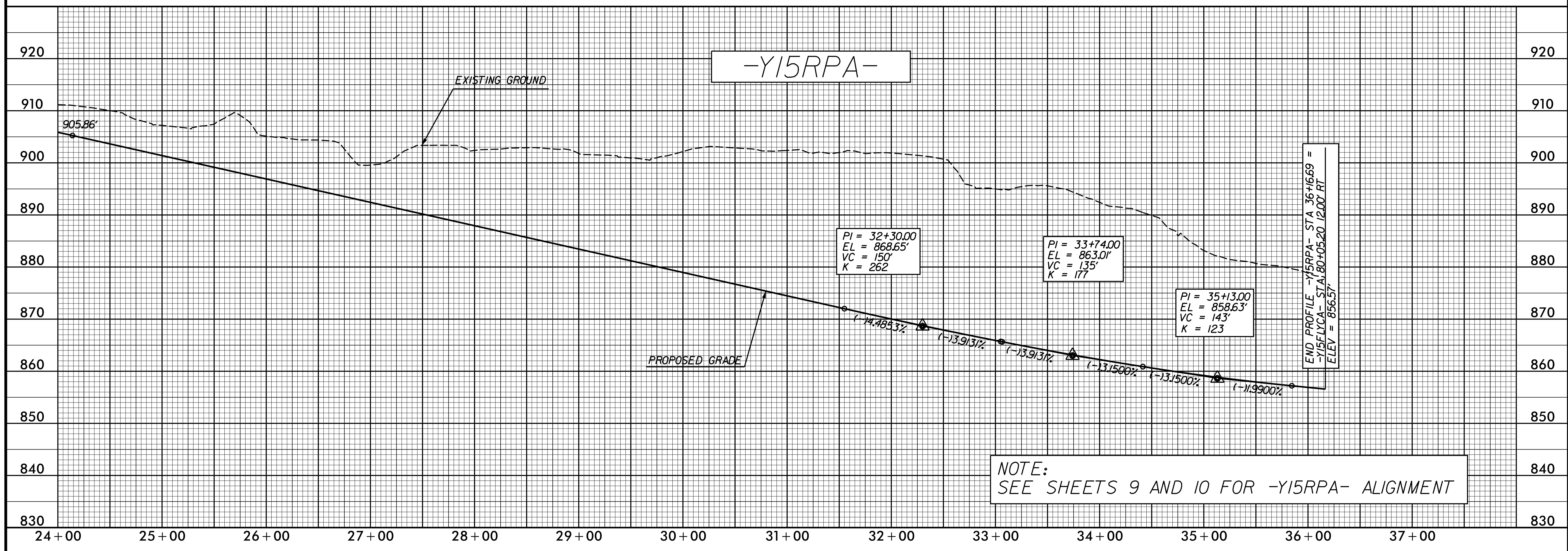
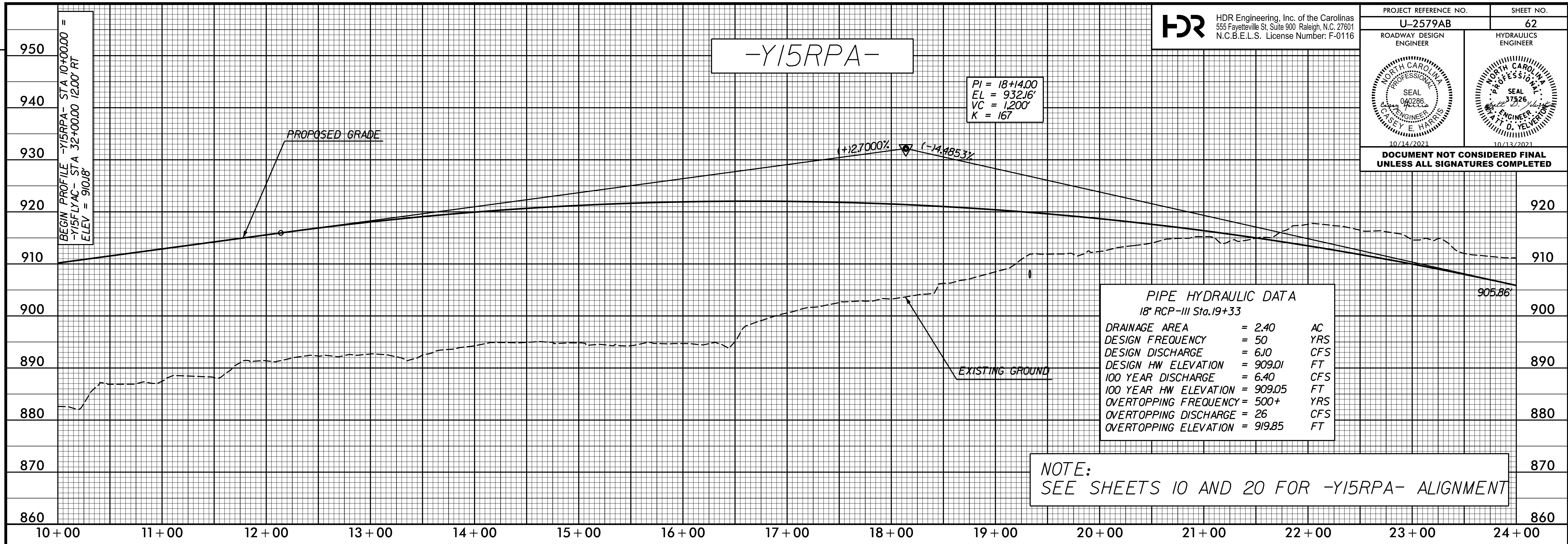
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



**NOTE:**  
SEE SHEET 9 FOR  
-Y15FLYCA- ALIGNMENT

PLOT DRIVER: NCDOT\_pdf\_color\_eng\_50.plt  
 USER: CHARRIS  
 DATE: 7/13/2021  
 TIME: 3:25:32 PM  
 FILE: NCDOT\NCDOT-U2579AB\6.0.CAD.BTM\6.2.Work\In\_Progress\U-2579AB\Roadway\Proj\U2579ab\_rdy\_dsh.plt.61.dgn

REVISIONS



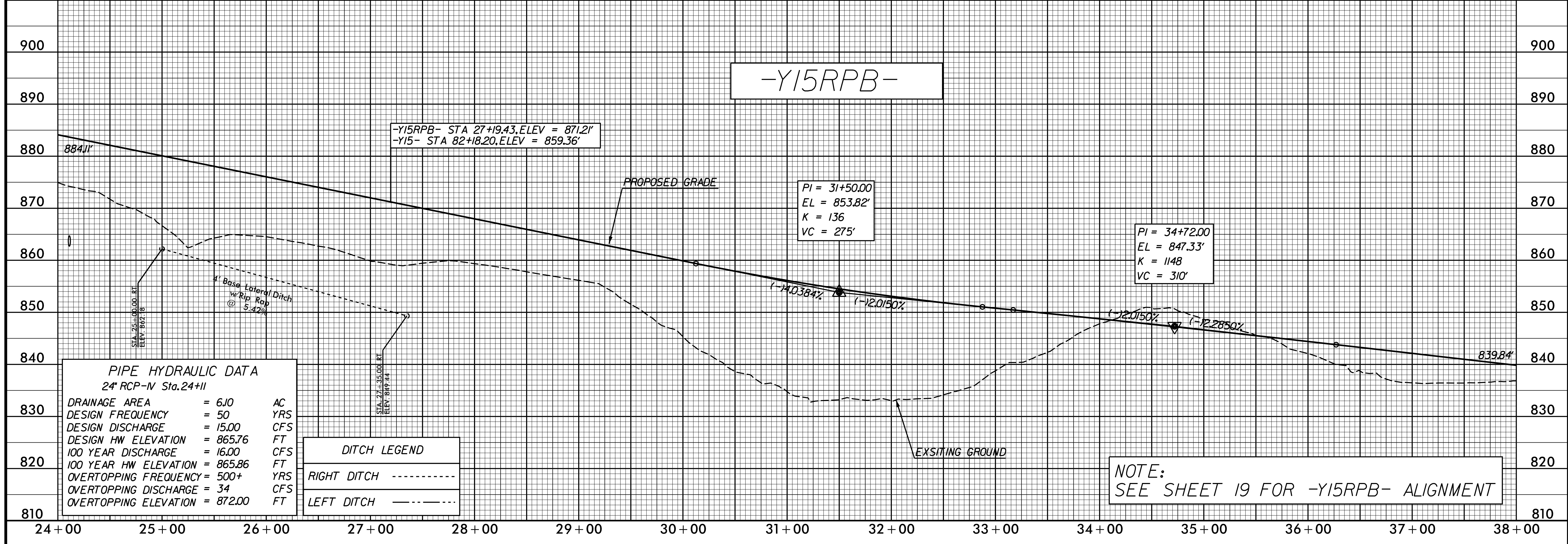
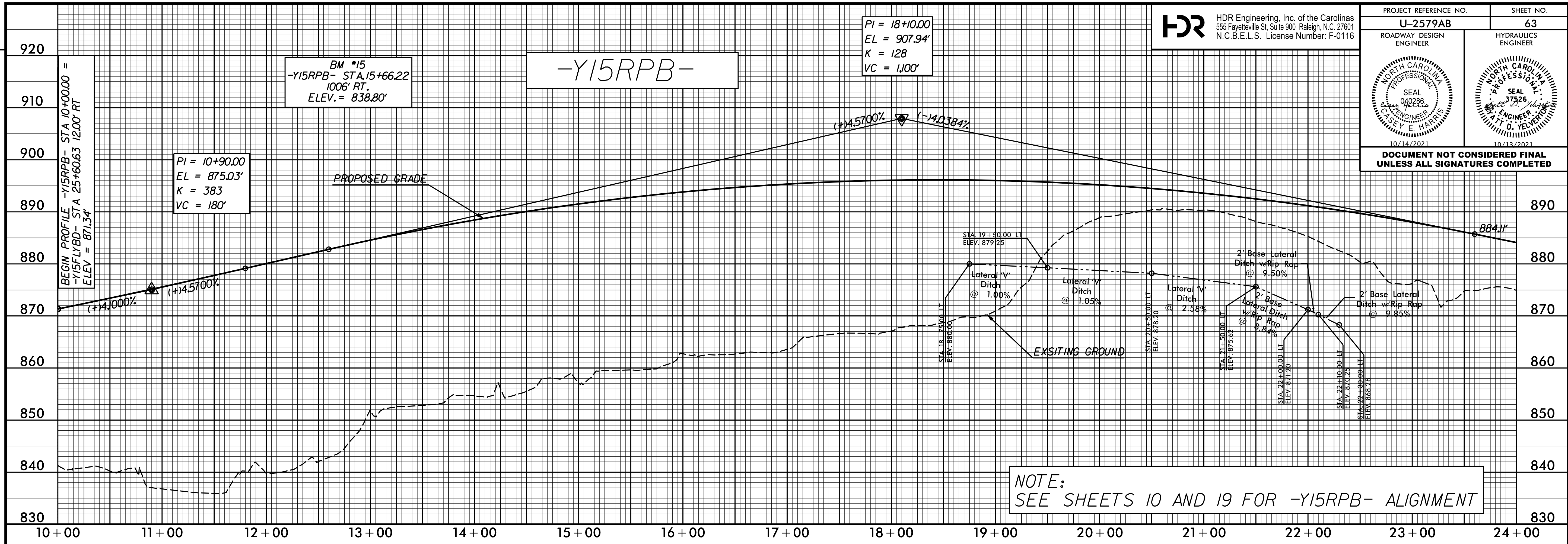
REVISIONS

PLOT DRIVER: NCDOT\_color\_eng\_50.plt  
USER: CHARRIS  
DATE: 7/13/2021  
TIME: 3:25:45 PM  
FILE: NCDOT\NCDOT-U2579AB\6.0.CAD.BTM\6.2.Work\In\_Progress\U-2579AB\Roadway\Proj\U2579ab\_r\_dy\_psh.plt.62.dgn

BEGIN PROFILE -Y15RPA- STA 10+00.00 =  
-Y15FLYAC- STA 32+00.00 12.00 RT  
ELEV = 910.18'



DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED



**PIPE HYDRAULIC DATA**  
24" RCP-IV Sta. 24+11

DRAINAGE AREA	= 610	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 15.00	CFS
DESIGN HW ELEVATION	= 865.76	FT
100 YEAR DISCHARGE	= 16.00	CFS
100 YEAR HW ELEVATION	= 865.86	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 34	CFS
OVERTOPPING ELEVATION	= 872.00	FT

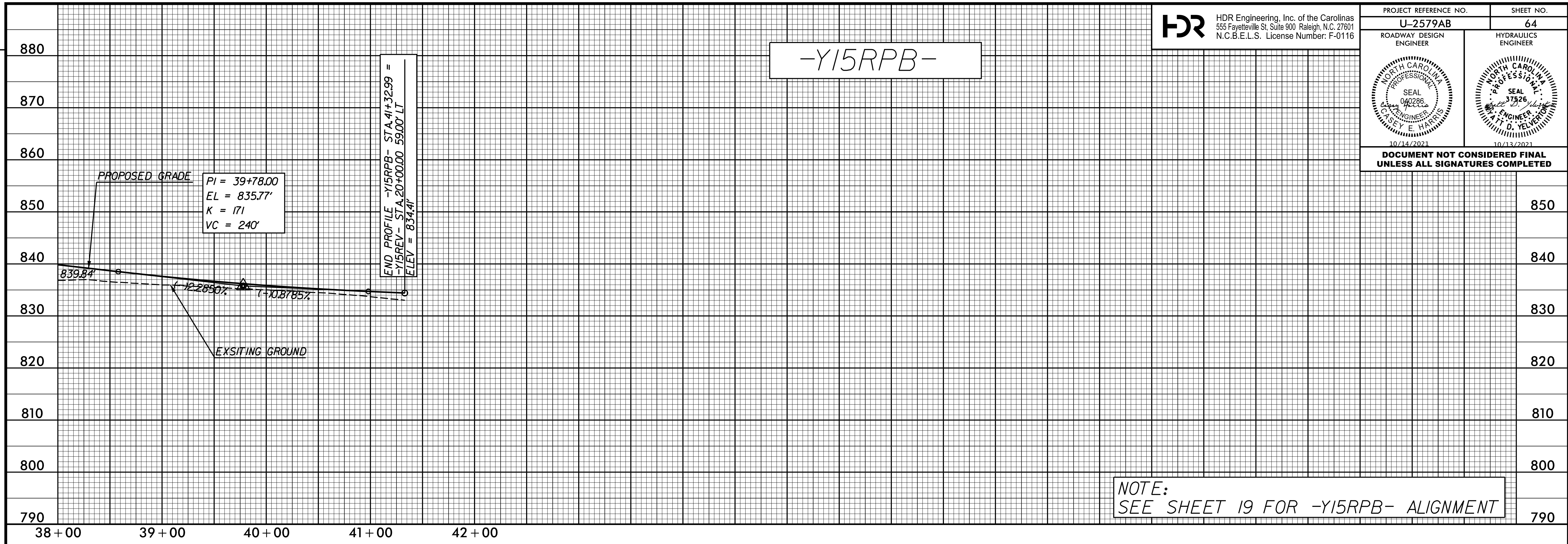
**DITCH LEGEND**

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

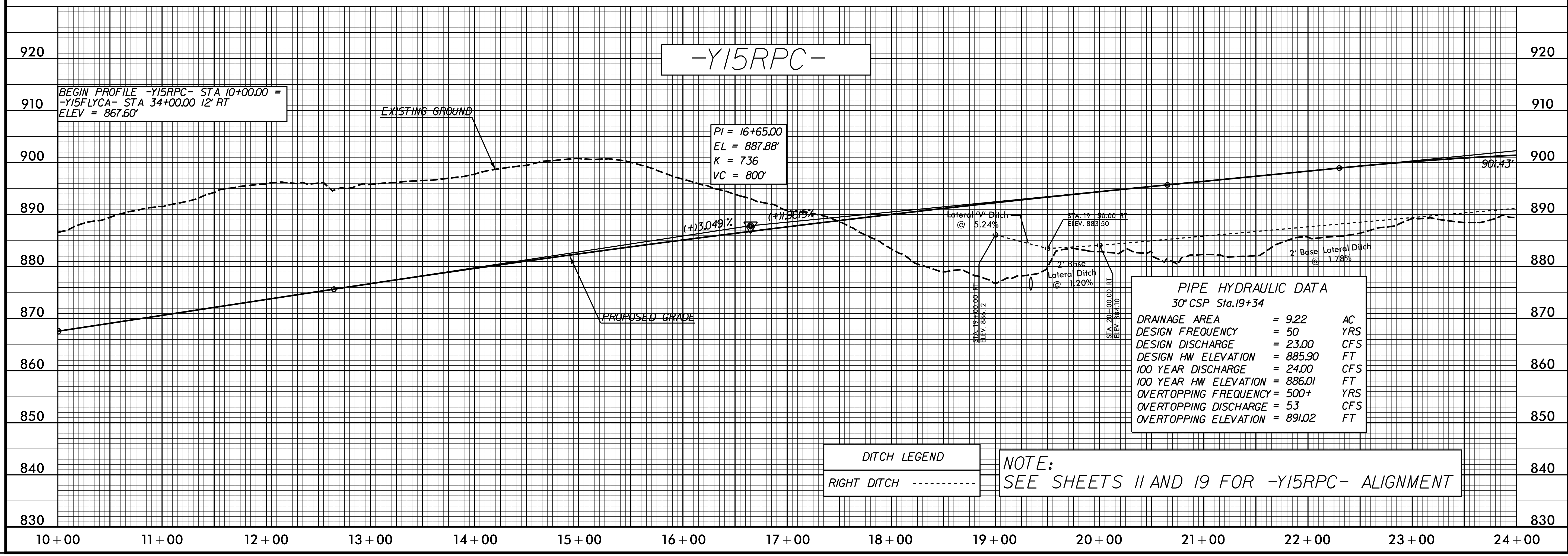
REVISIONS

PLOT DRIVER: NCDOT\_pdf\_color\_eng\_50.plt  
 USER: CHARRIS  
 DATE: 7/13/2021  
 TIME: 3:25:58 PM  
 FILE: NCDOT\NCDOT-U2579AB\6.0.CAD.BTM\6.2.Work\In\_Progress\U-2579AB\Roadway\Proj\U2579ab\_rdy\_dsh.plt.63.dgn

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



**NOTE:**  
SEE SHEET 19 FOR -Y15RPB- ALIGNMENT



**PIPE HYDRAULIC DATA**  
30" CSP Sta.19+34

DRAINAGE AREA	= 9.22	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 23.00	CFS
DESIGN HW ELEVATION	= 885.90	FT
100 YEAR DISCHARGE	= 24.00	CFS
100 YEAR HW ELEVATION	= 886.01	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 53	CFS
OVERTOPPING ELEVATION	= 891.02	FT

**DITCH LEGEND**  
RIGHT DITCH - - - - -

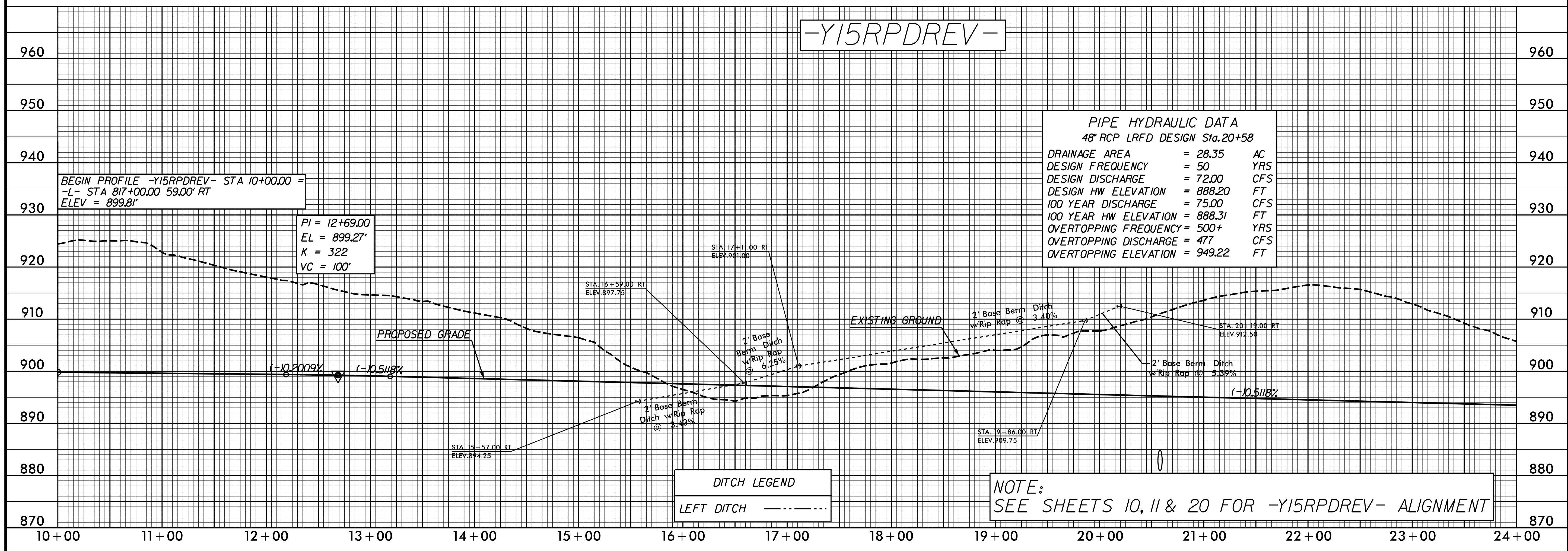
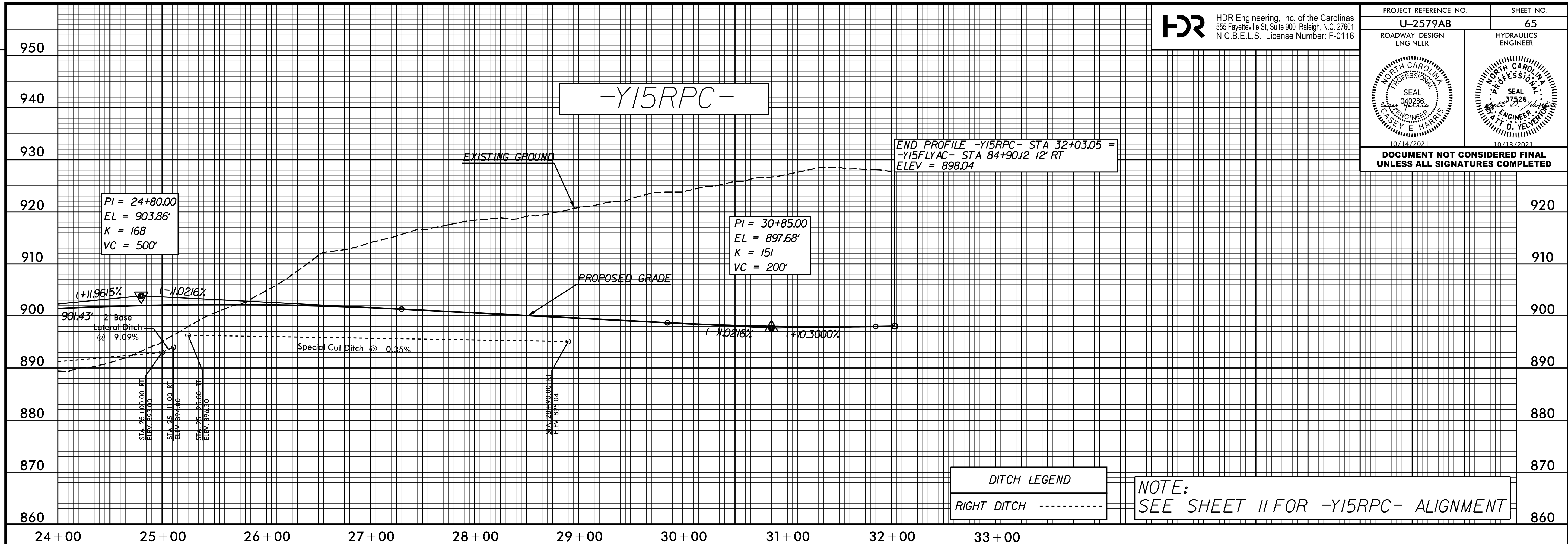
**NOTE:**  
SEE SHEETS 11 AND 19 FOR -Y15RPC- ALIGNMENT

PLOT DRIVER: NCDOT...color\_eng\_50.plt  
 USER: CHARRIS  
 DATE: 7/13/2021  
 TIME: 3:26:11 PM  
 FILE: NCDOT\NCDOT-U2579AB\6.0.CAD.BTM\6.2.Work.In\_Progress\U-2579AB\Roadway\Proj\U2579ab\_rdy\_dsh.plt.64.dgn

REVISIONS



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



REVISIONS

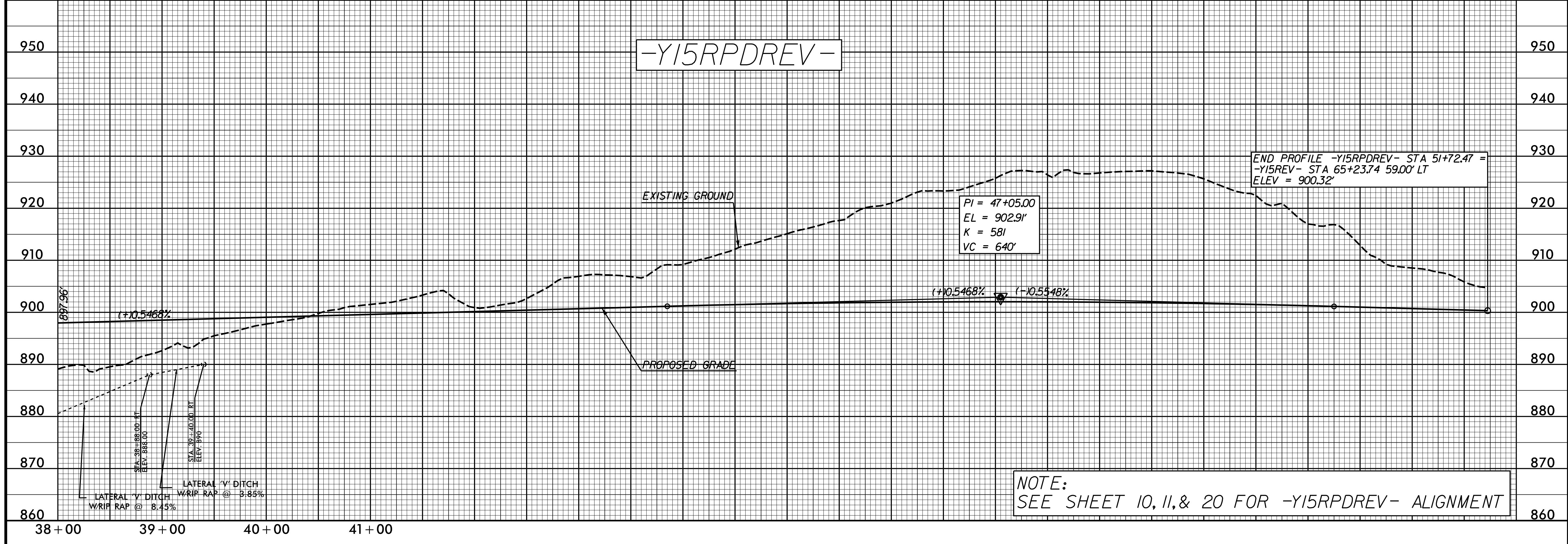
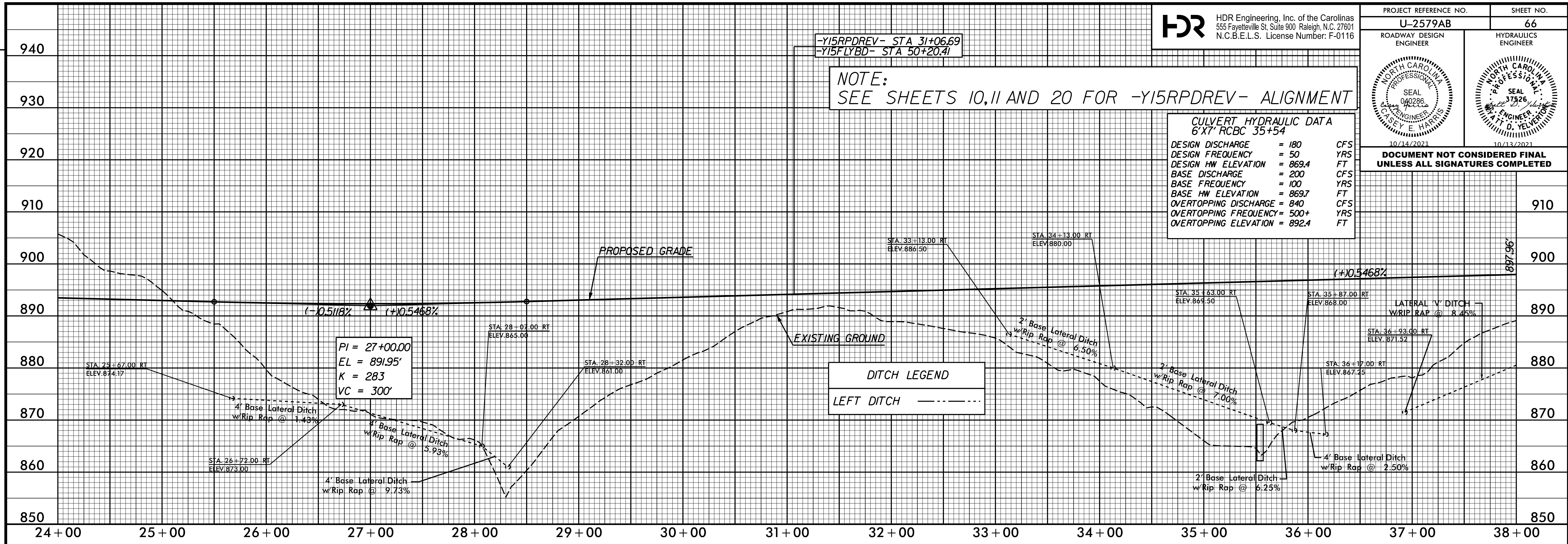
PLOT DRIVER: NCDOT\_color\_eng\_50.plt  
USER: CHARRIS  
DATE: 7/13/2021  
TIME: 3:26:27 PM  
FILE: NCDOT\NCDOT-U2579AB\6.0.CAD.BTM\6.2.Work\In\_Progress\U-2579AB\Roadway\Proj\U2579ab\_rdy\_dsh.plt.65.dgn

**NOTE:**  
SEE SHEETS 10, 11 AND 20 FOR -Y15RPDREV- ALIGNMENT

**CULVERT HYDRAULIC DATA**  
6'X7' RCBC 35+54

DESIGN DISCHARGE	= 180	CFS
DESIGN FREQUENCY	= 50	YRS
DESIGN HW ELEVATION	= 869.4	FT
BASE DISCHARGE	= 200	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 869.7	FT
OVERTOPPING DISCHARGE	= 840	CFS
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING ELEVATION	= 892.4	FT

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



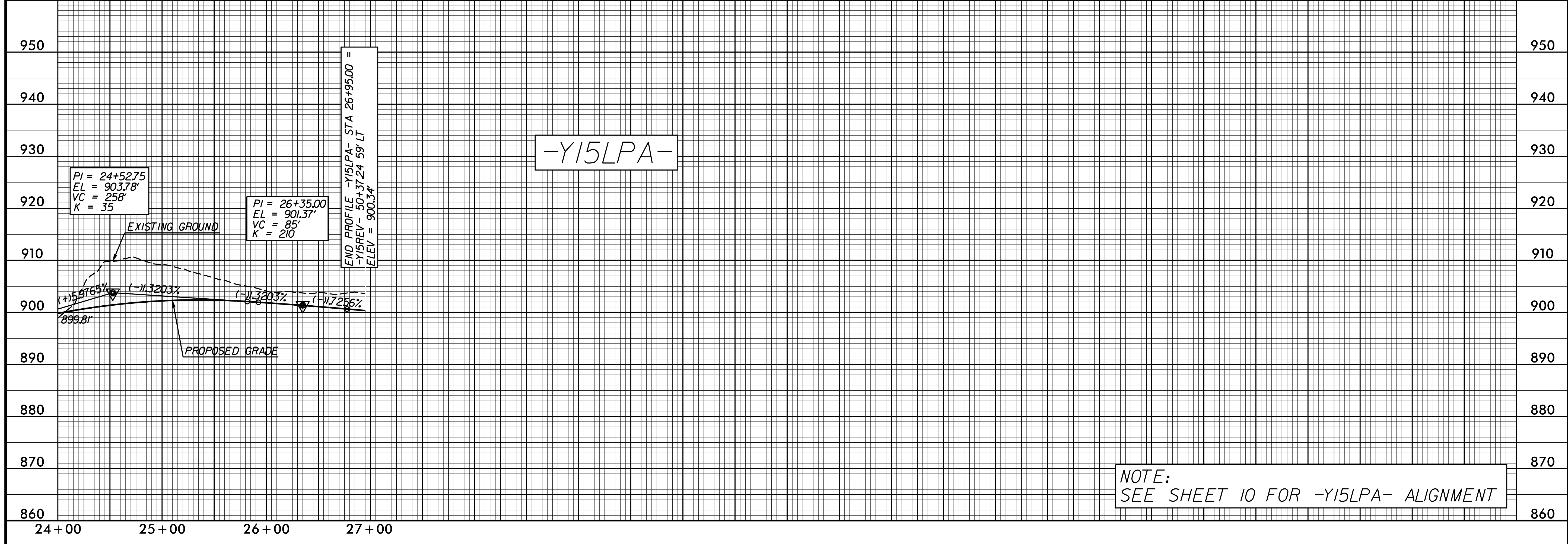
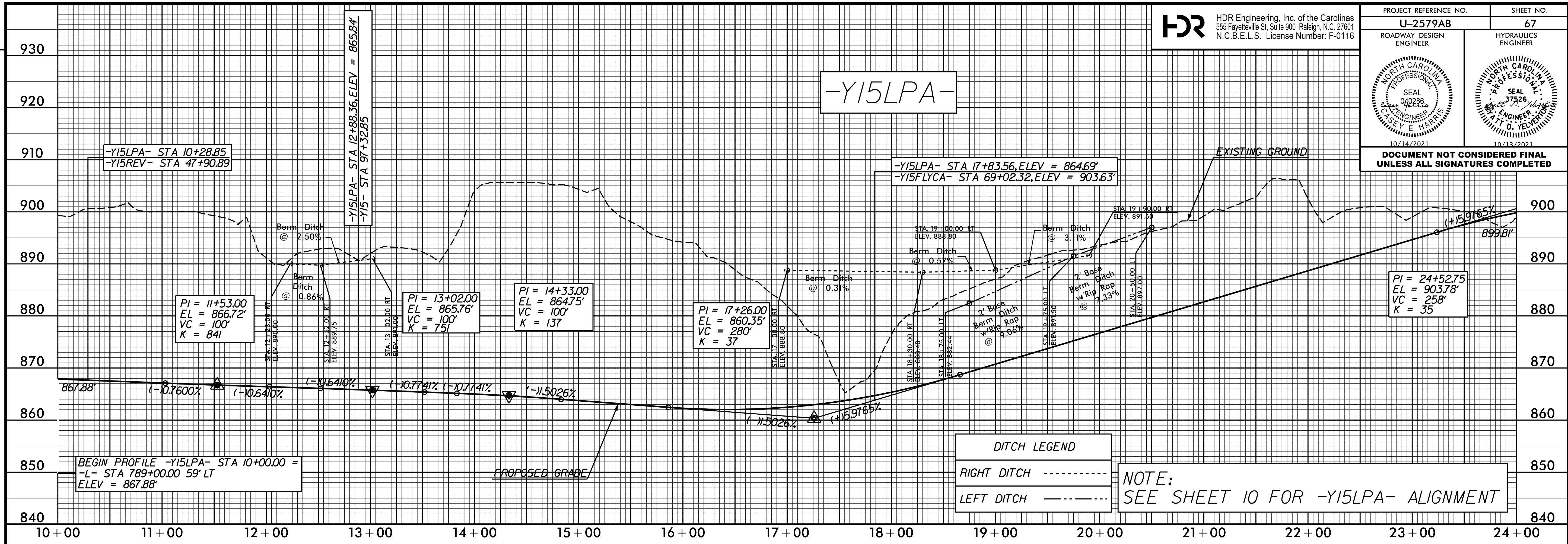
REVISIONS

PLOT DRIVER: NCDOT\_pdf\_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\_dsh.plt.66.dgn

PENTABLE: NCDOT\_pshp.plt.conventional.tbl  
 TIME: 3:26:40 PM  
 DATE: 7/13/2021



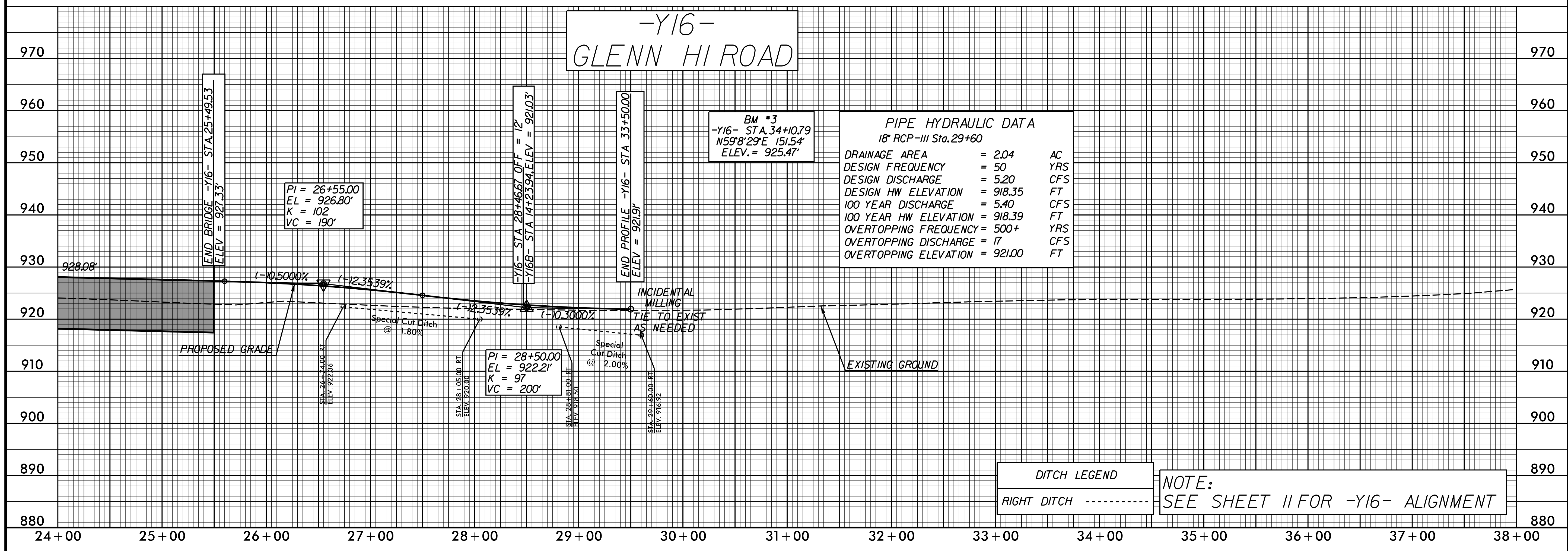
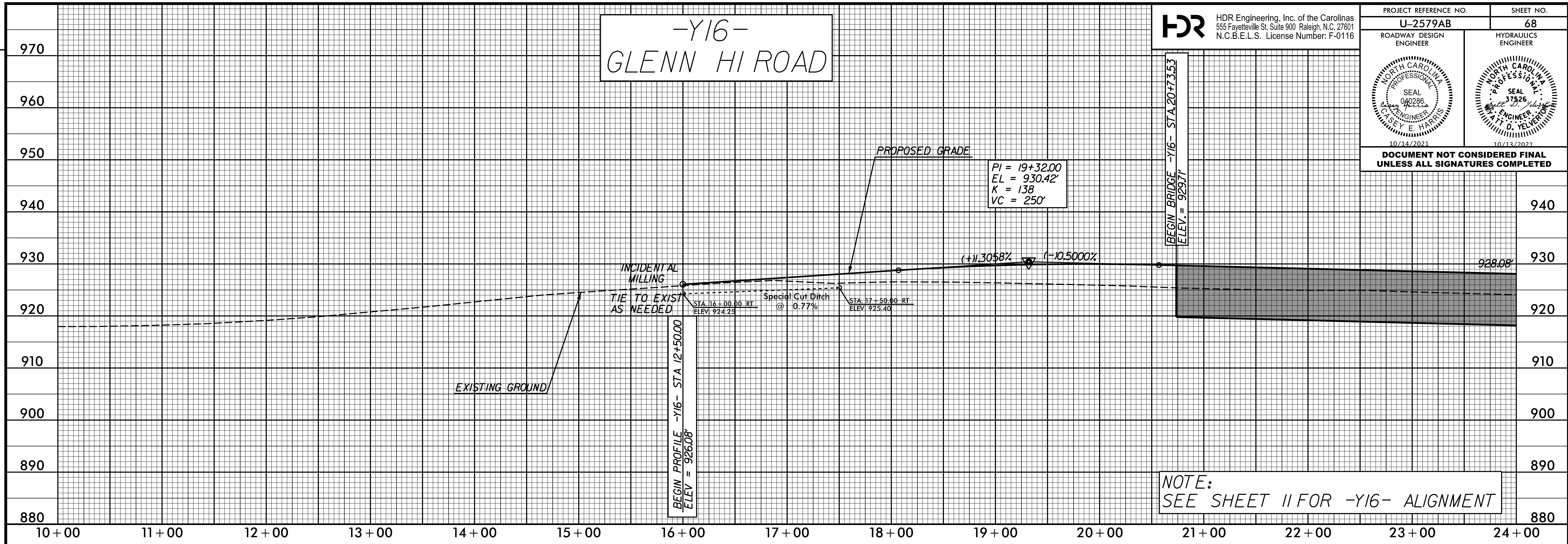
PROJECT REFERENCE NO. <b>U-2579AB</b>	SHEET NO. <b>67</b>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



REVISIONS

PLOT DRIVER: NCDOT\_ncdot\_color\_eng\_50.plt  
 USER: CHARRIS  
 DATE: 7/13/2021  
 TIME: 3:26:52 PM  
 FILE: NCDOT\NCDOT-U2579AB\6.0.CAD.BTM\6.2.Work\k.In\_Progress\U-2579AB\Roadway\Proj\U2579ab\_r\_dy\_psh.plt.67.dgn

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

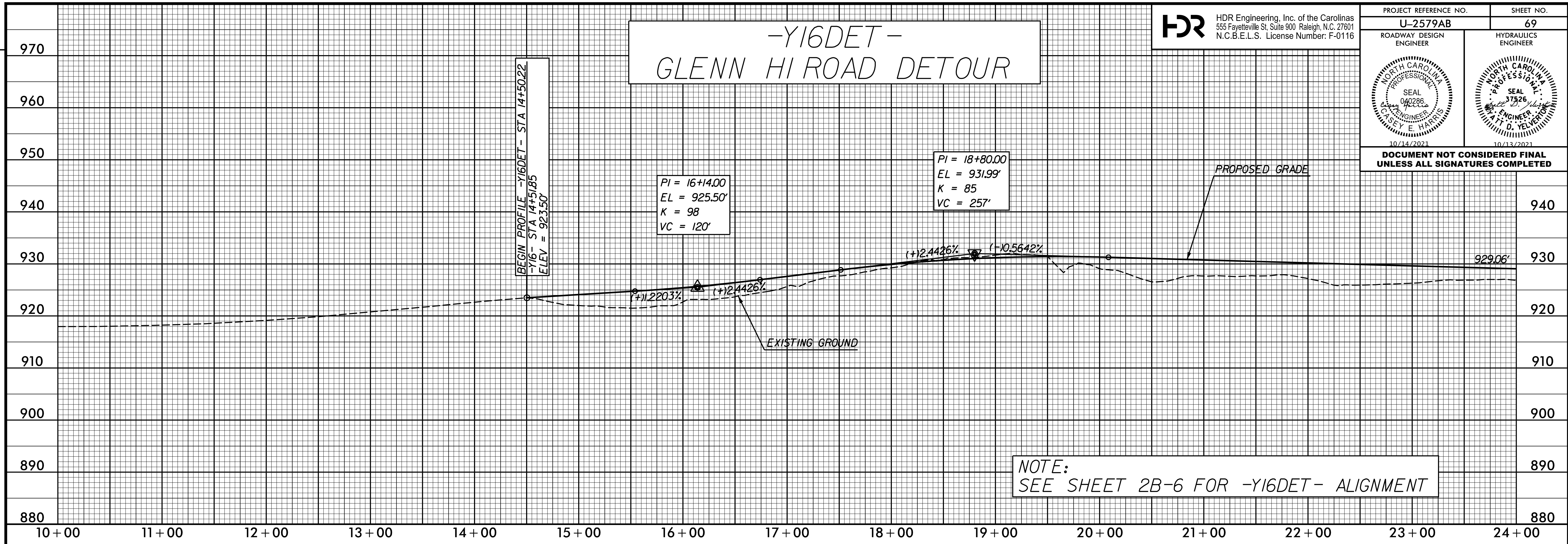


REVISIONS

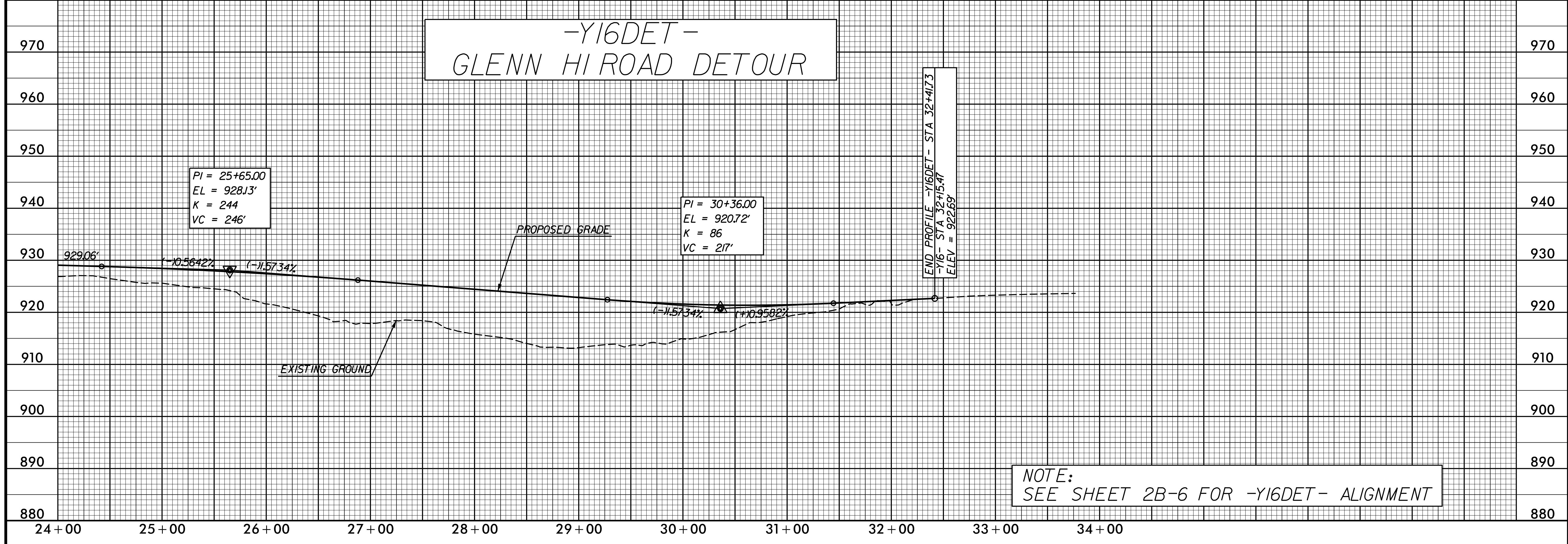
PLOT DRIVER: NCDOT\_ncdot\_color\_eng\_50.plt  
 USER: CHARRIS  
 FILE: NCDOT\NCDOT-U2579AB\6.0.CAD.BTM\6.2.Work\In\_Progress\U-2579AB\Roadway\Proj\U2579ab\_rdy\_psh.plt.68.dgn

PENTABLE: NCDOT\_pshpfl.conventional.tbl  
 DATE: 7/13/2021  
 TIME: 3:27:06 PM





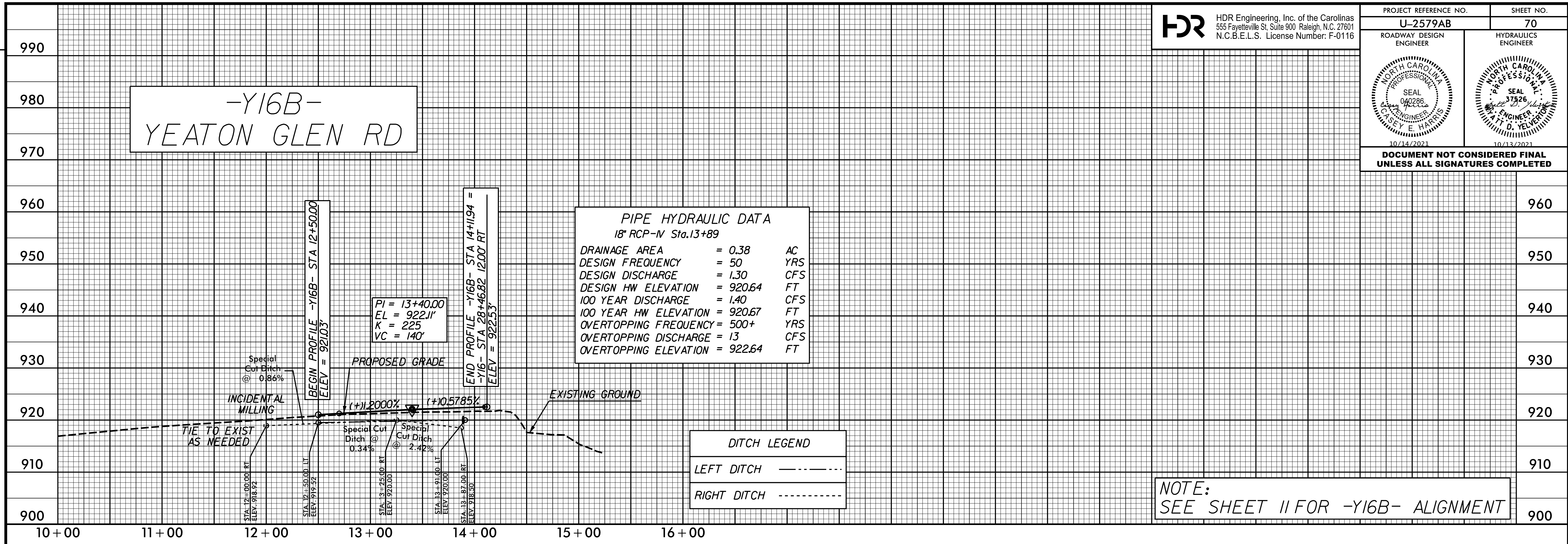
NOTE:  
SEE SHEET 2B-6 FOR -Y16DET- ALIGNMENT



NOTE:  
SEE SHEET 2B-6 FOR -Y16DET- ALIGNMENT

REVISIONS

PLOT DRIVER: NCDOT\_color\_eng\_50.plt  
 USER: CHARRIS  
 DATE: 7/13/2021  
 TIME: 3:27:17 PM  
 FILE: NCDOT\NCDOT-U2579AB\6.0.CAD.BTM\6.2.Work\In\_Progress\U-2579AB\Roadway\Proj\U2579ab\_rdy\_psh.plt.69.dgn

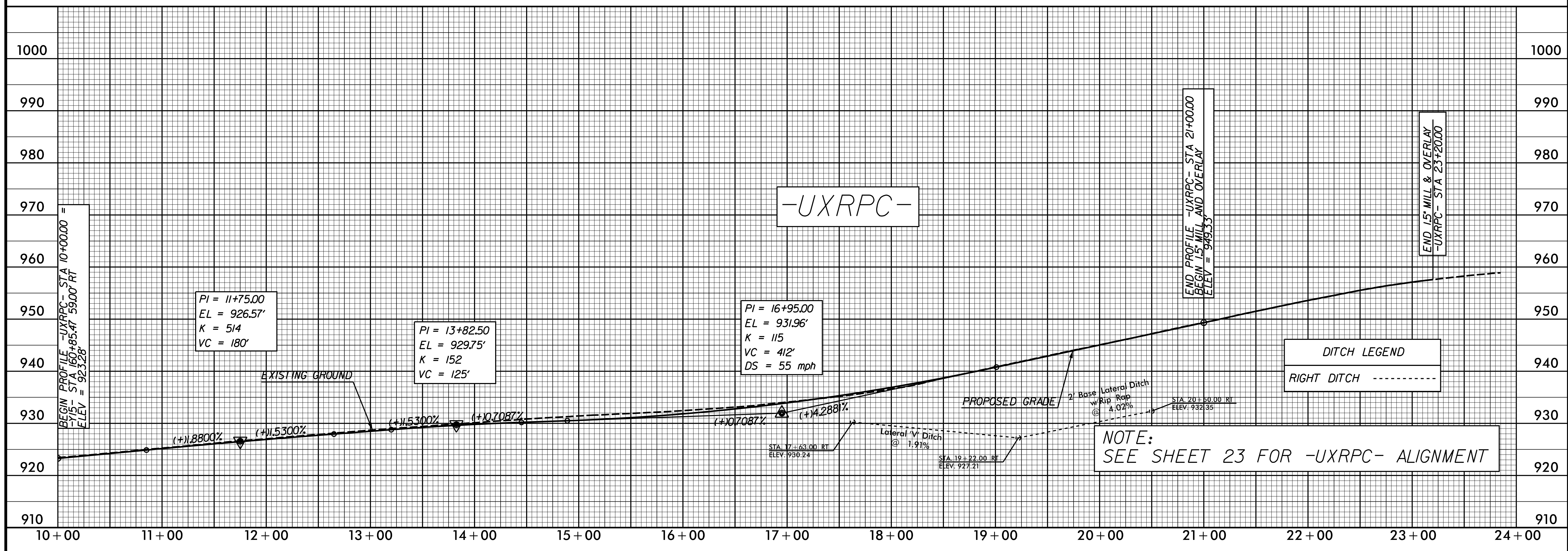
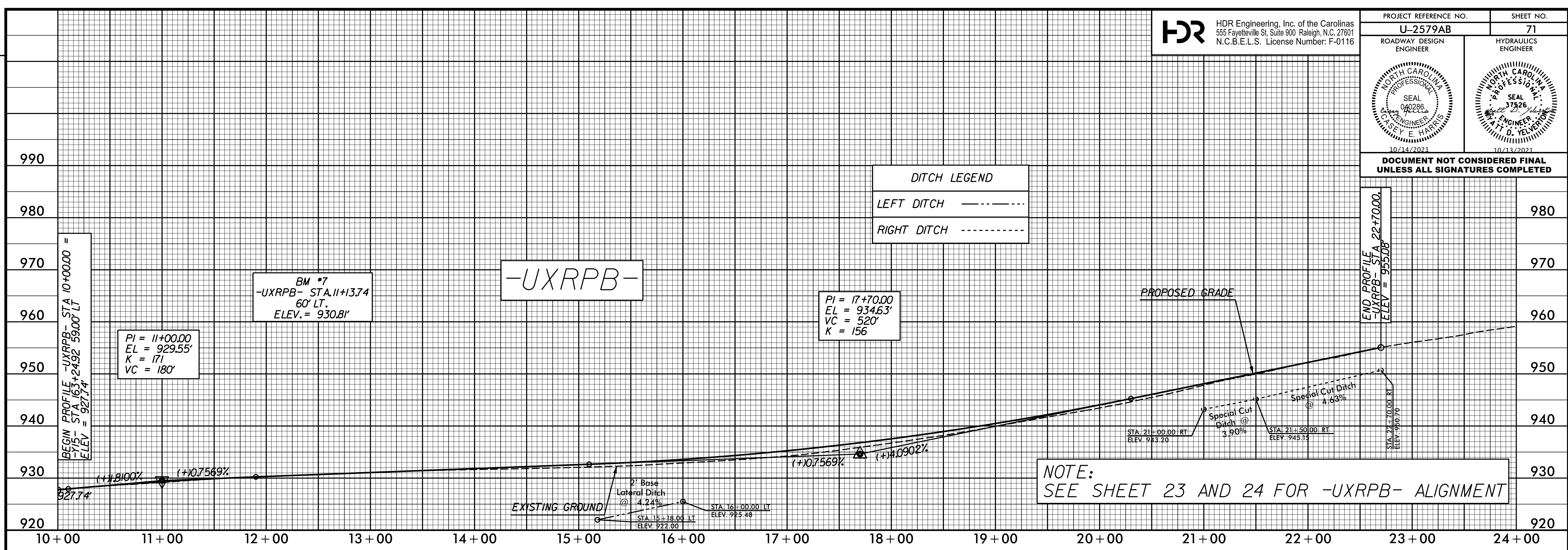


REVISIONS

PLOT DRIVER: NCDOT\_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.70.dgn

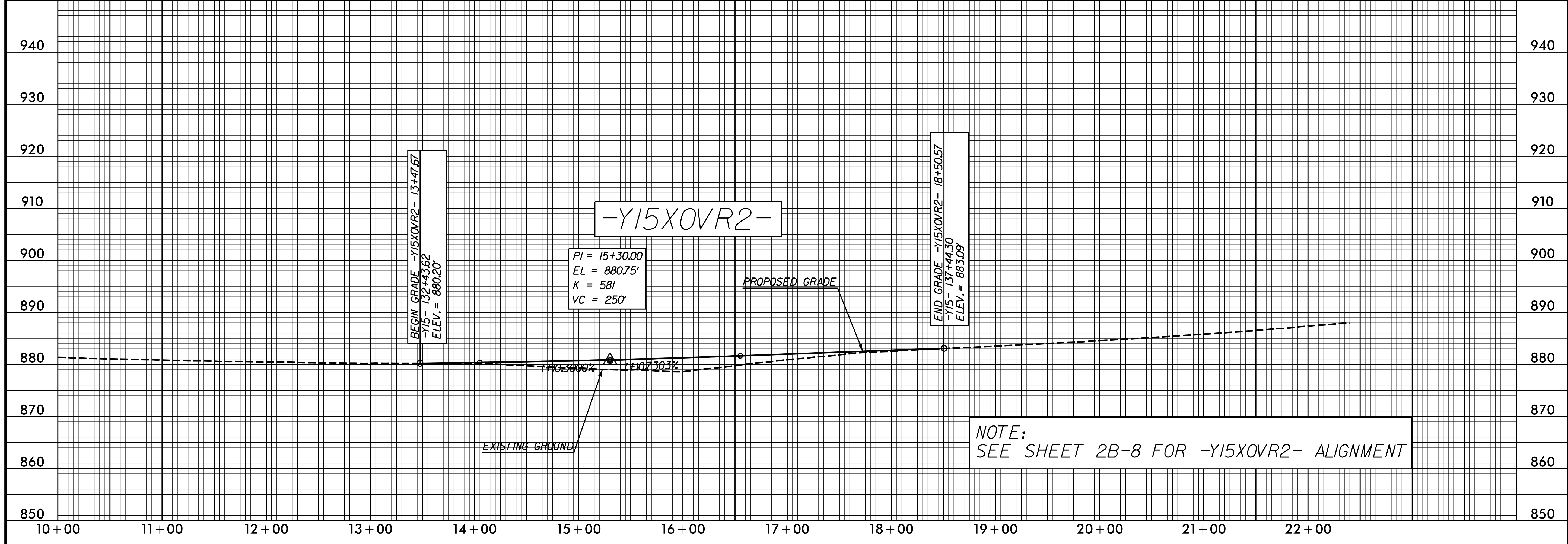
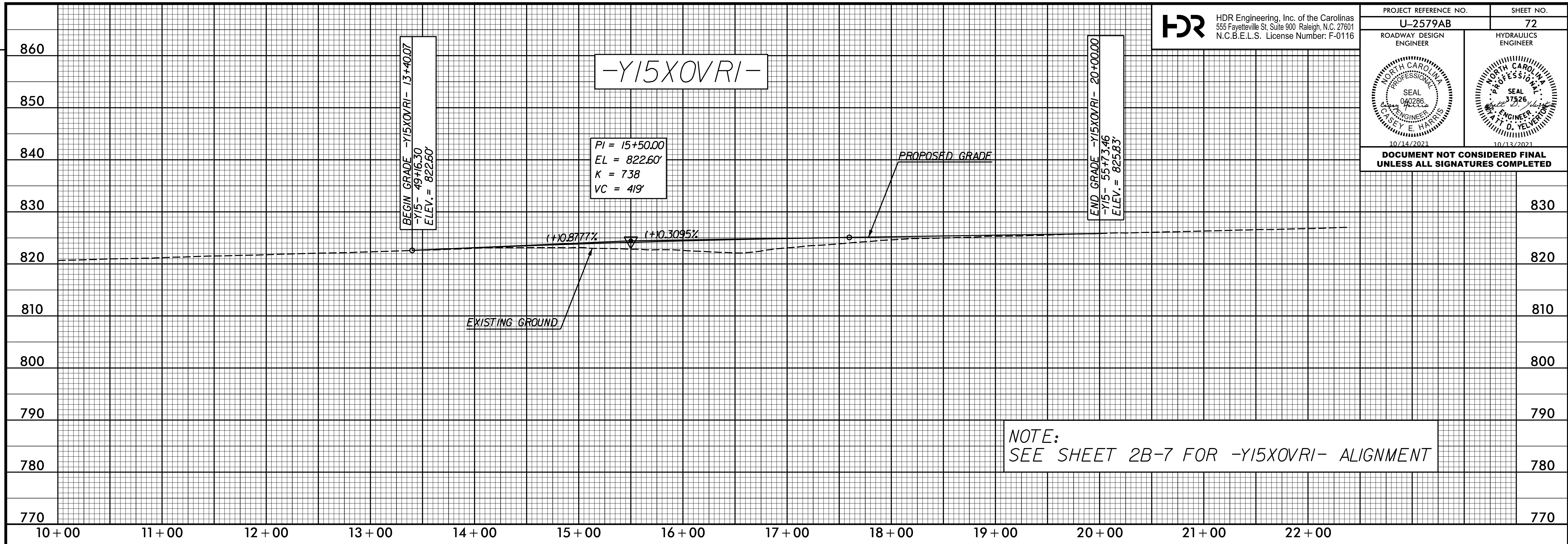
PENTABLE: NCDOT\_pshpfl\_conventional.tbl  
DATE: 7/13/2021  
TIME: 3:27:30 PM





REVISIONS

PLOT DRIVER: NCDOT\_color\_eng\_50.plt  
 USER: CHARRIS  
 DATE: 7/13/2021  
 TIME: 3:27:43 PM  
 FILE: NCDOT\NCDOT-U2579AB\6.0.CAD.BTM\6.2.Work.In.Progress\U-2579AB\Roadway\Proj\U2579ab\_rdy\_dsh.plt.71.dgn



REVISIONS

PLOT DRIVER: NCDOT\_pdf\_color\_eng\_50.plt  
 USER: CHARRIS  
 DATE: 7/13/2021  
 TIME: 3:27:55 PM  
 FILE: NCDOT\NCDOT-U2579AB\6.0.CAD.BTM\6.2.Work\In\_Progress\U-2579AB\Roadway\Proj\U2579ab\_rdy\_psh.plt.72.dgn

860  
850  
840  
830  
820  
810  
800  
790  
780  
770

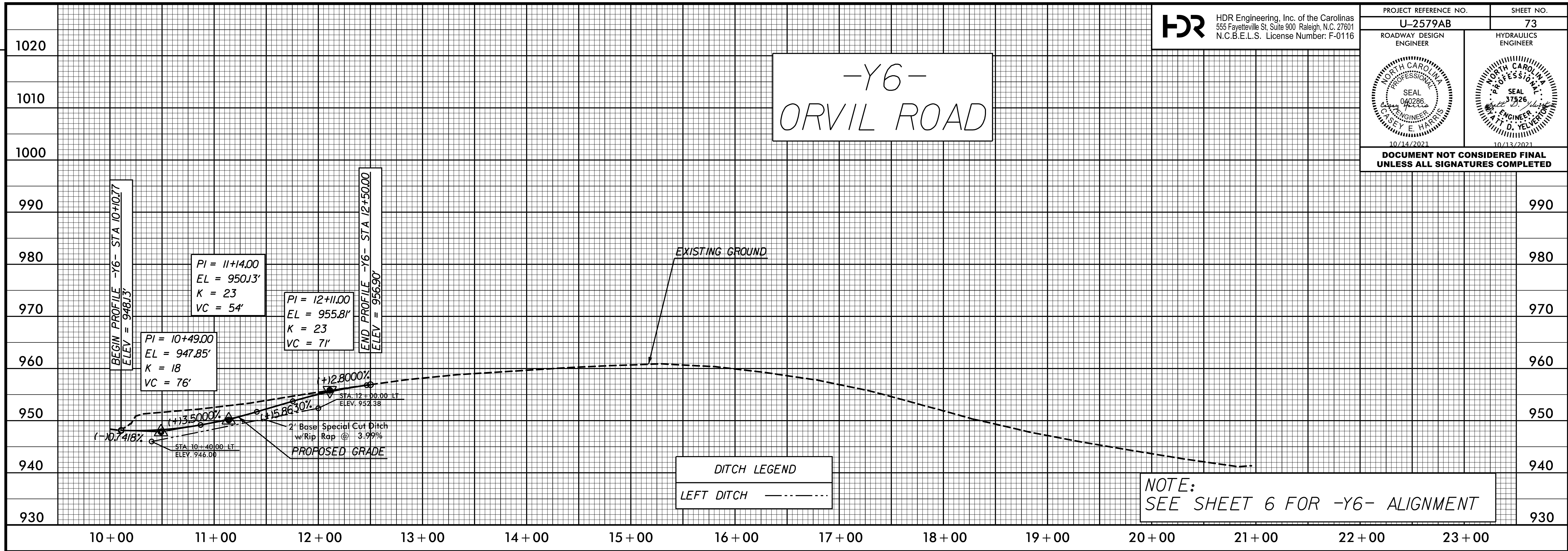
10+00 11+00 12+00 13+00 14+00 15+00 16+00 17+00 18+00 19+00 20+00 21+00 22+00

940  
930  
920  
910  
900  
890  
880  
870  
860  
850



PROJECT REFERENCE NO. <b>U-2579AB</b>	SHEET NO. <b>73</b>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

-Y6-  
ORVIL ROAD

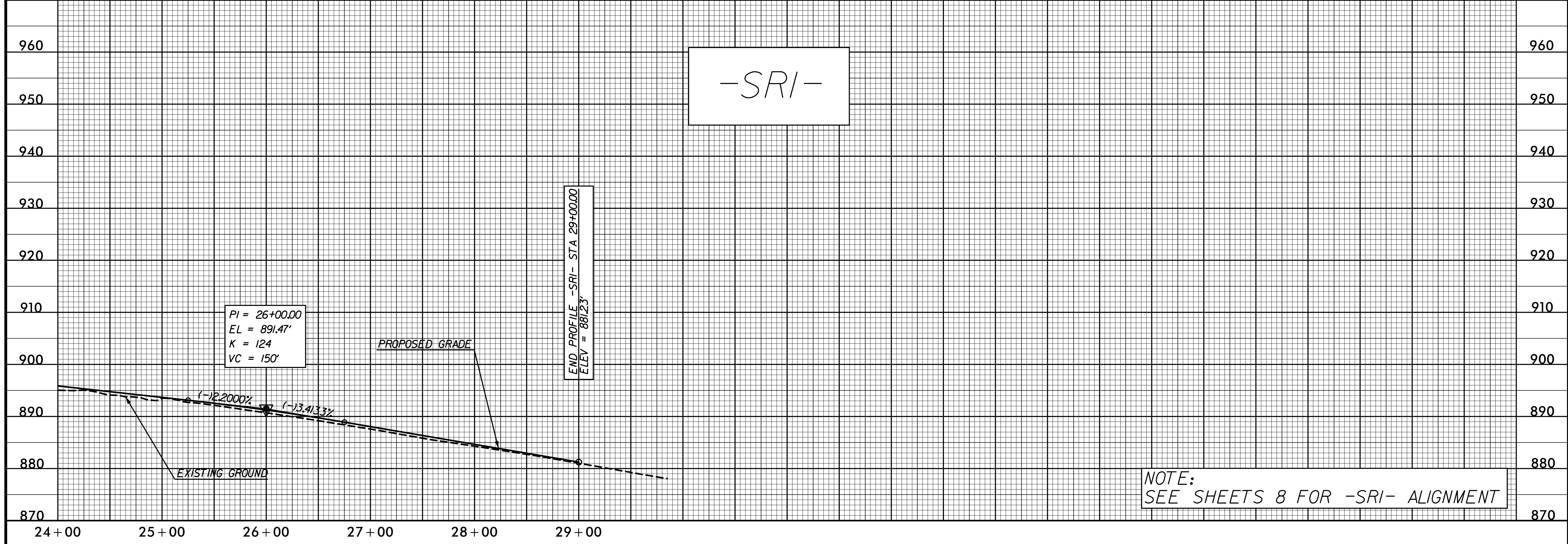
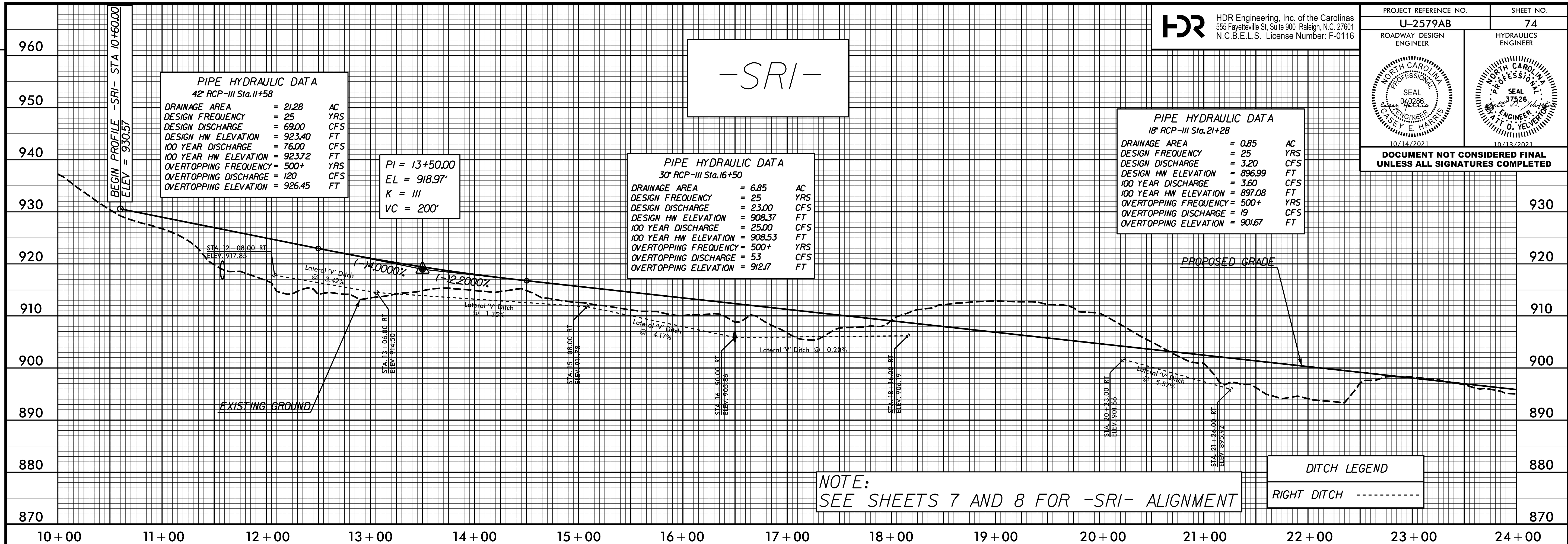


**REVISIONS**

PLOT DRIVER: NCDOT\_pdf\_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.73.dgn

PENTABLE: NCDOT\_pshp.plt.conventional.tbl  
 DATE: 7/13/2021  
 TIME: 3:28:07 PM

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



REVISIONS

PLOT DRIVER: NCDOT\_color\_eng\_50.plt  
 USER: CHARRIS  
 DATE: 7/13/2021  
 TIME: 3:28:19 PM  
 FILE: NCDOT\NCDOT-U2579AB\6.0.CAD.BTM\6.2.Work\In\_Progress\U-2579AB\Roadway\Proj\U2579ab\_r\_dy\_psh.plt.74.dgn

PENTABLE: NCDOT\_pshpfl\_conventional.tbl