

See Sheet 1A For Index of Sheets
See Sheet 1B For Standard Symbology Sheet

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

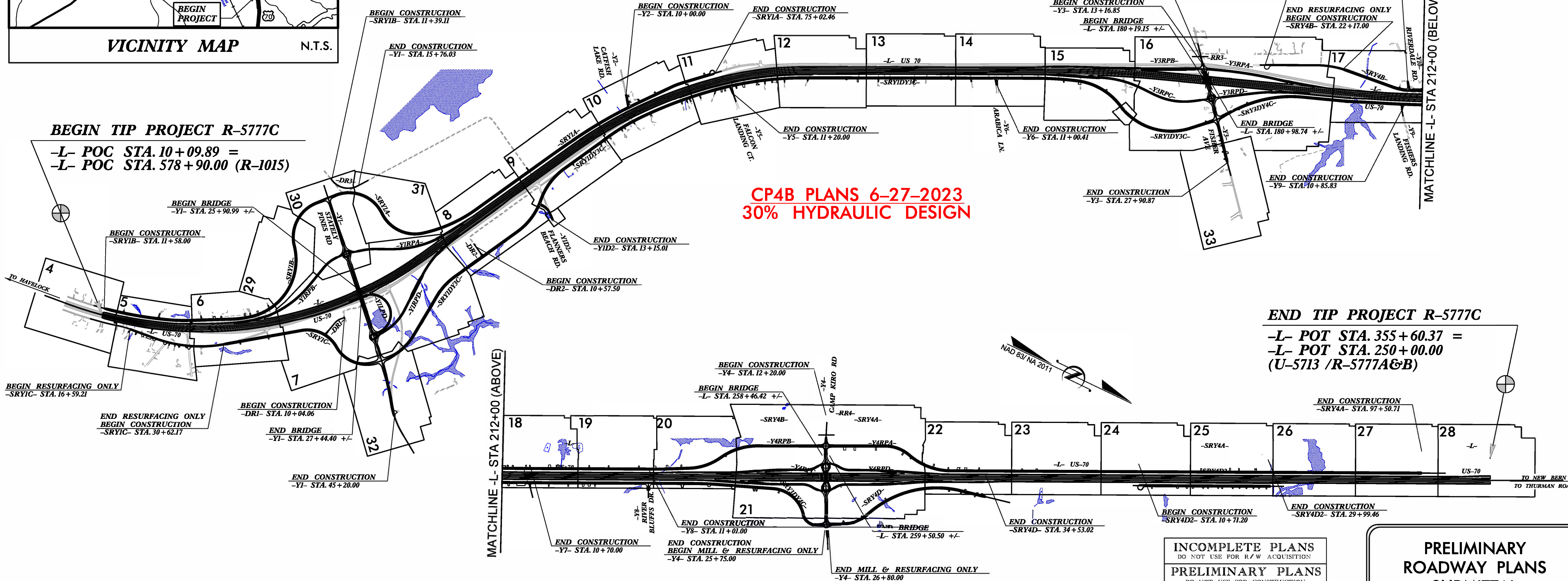
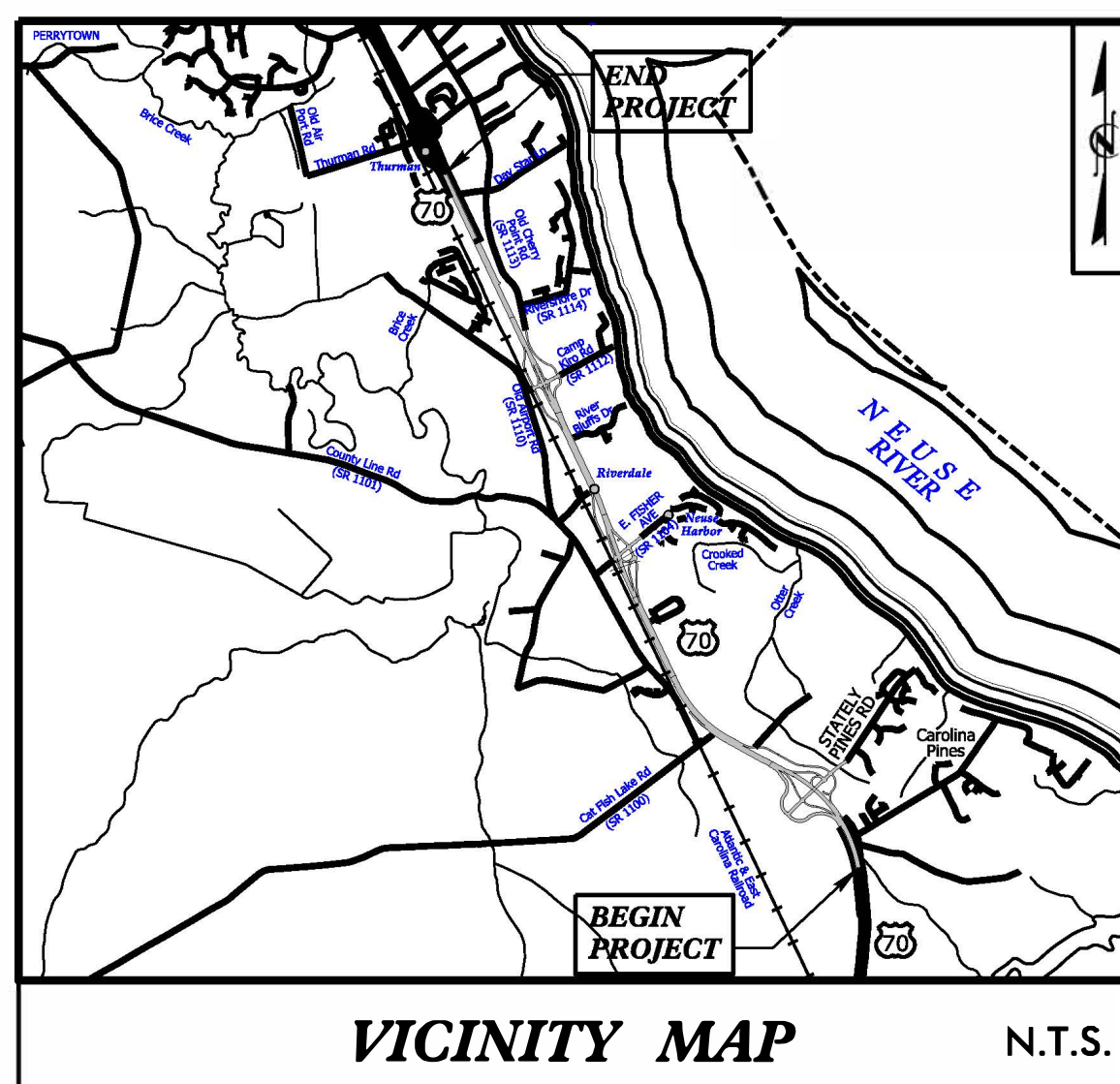
CRAVEN COUNTY

LOCATION: U.S. 70 FROM THE HAVELOCK BYPASS TO EAST OF S.R. 1116 (THURMAN ROAD)

TYPE OF WORK: GRADING, DRAINAGE, PAVING, SIGNING, ITS AND STRUCTURES

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5777C	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
44648.3.4	N/A	DESIGN-BUILD	

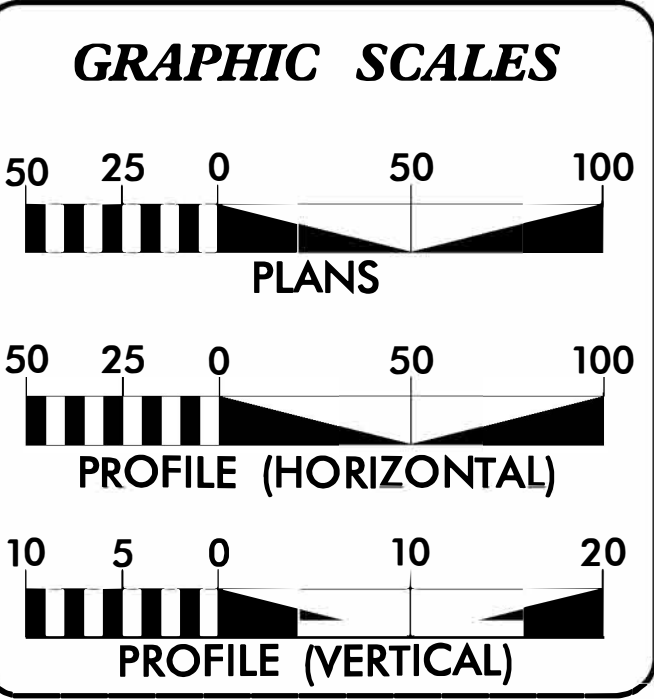
TIP PROJECT: R-5777C



THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARY OF THE CITY OF NEW BERN
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.
THIS IS A CONTROLLED ACCESS PROJECT WITH ACCESS BEING LIMITED TO INTERCHANGES.

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

PRELIMINARY
ROADWAY PLANS
SUBMITTAL
SUBMITTAL #S-010R1



DESIGN DATA

ADT 2019 =	31,800
ADT 2045 =	41,800
K =	9%
D =	55%
T =	8%*
V =	75 MPH
* (TTST = 3% + DUAL 5%)	
FUNC. CLASSIFICATION =	INTERSTATE STATEWIDE TIER

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT R-5777C =	6.486 MILES
LENGTH STRUCTURE TIP PROJECT R-5777C =	0.058 MILES
TOTAL LENGTH OF TIP PROJECT R-5777C =	6.544 MILES

NCDOT CONTACT: **BYRON KYLE**
NCDOT - DESIGN-BUILD UNIT

PLANS PREPARED FOR THE NCDOT BY:

Balfour Beatty **BARNHILL CONTRACTING COMPANY** **stc**

NC LICENSE NUMBER F-0991
900 W TRADE ST STE 715, CHARLOTTE, NC 28202

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: **JANUARY 17, 2023**

LETTING DATE: **JANUARY 17, 2023**

J. ADAM FREEMAN, PE
PROJECT ENGINEER

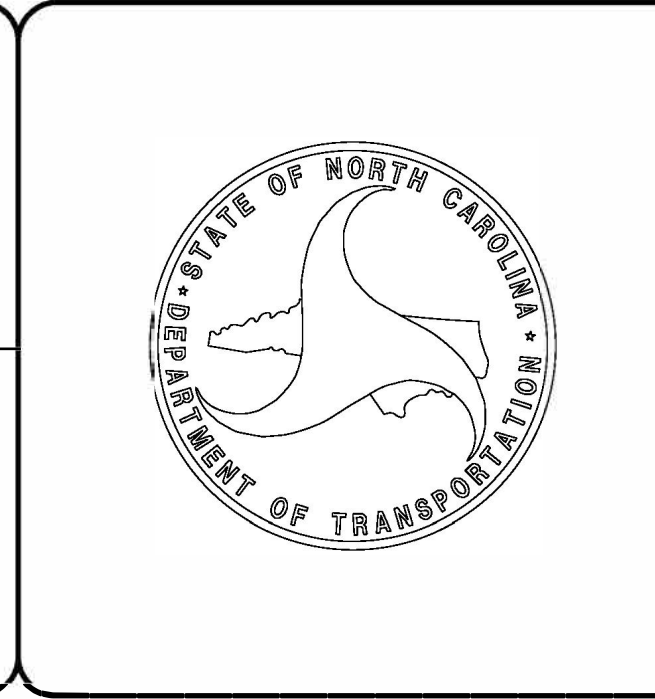
NARONG PHAL, PE
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

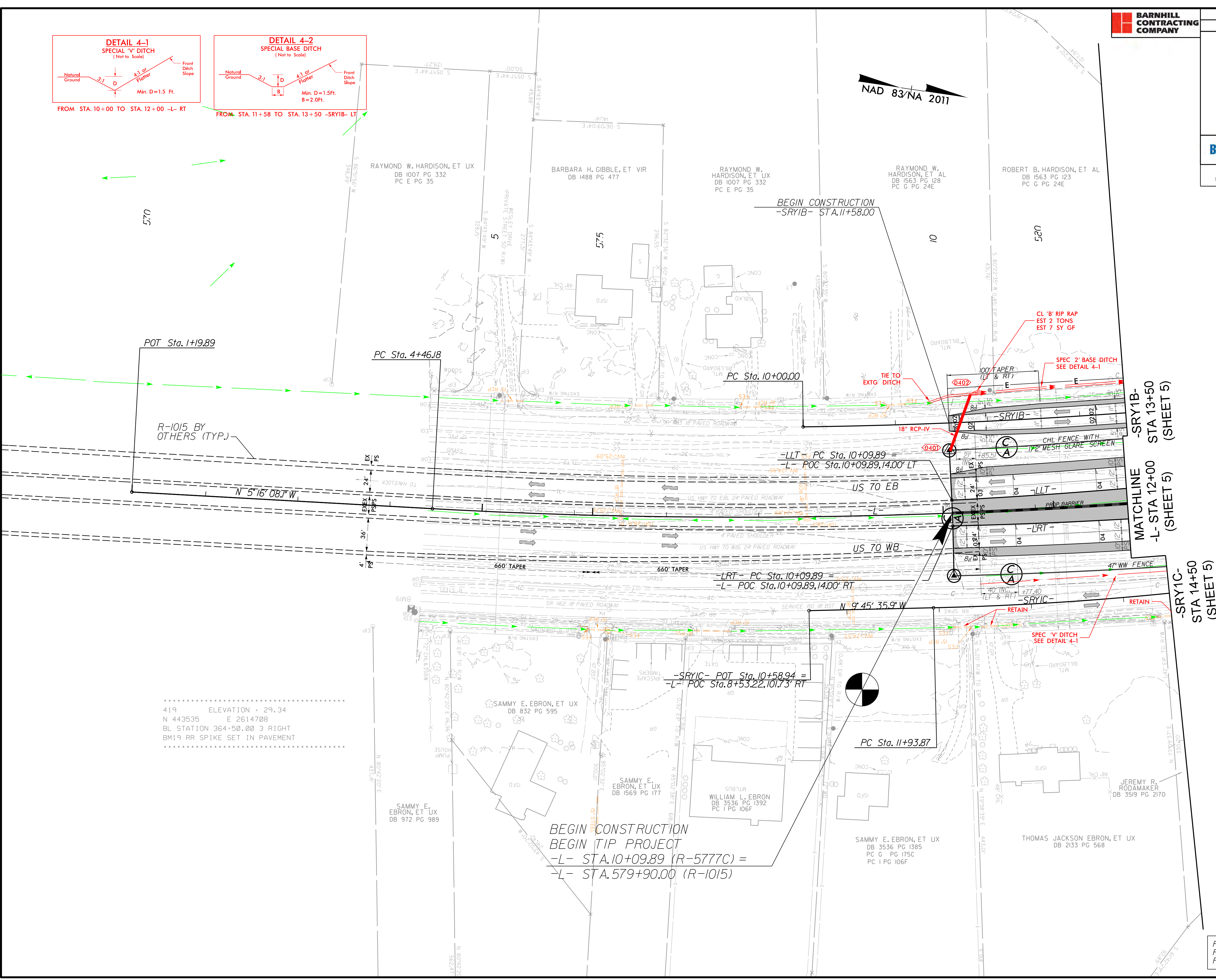
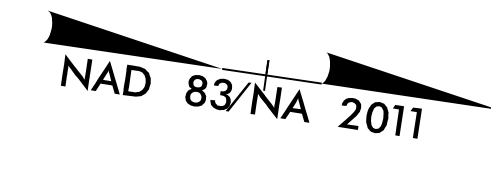
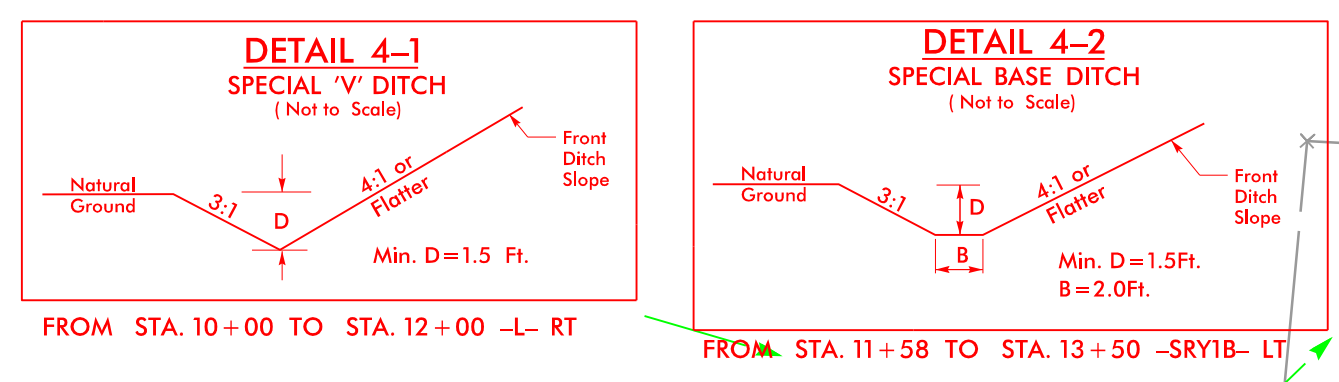
ROADWAY DESIGN ENGINEER

SIGNATURE: _____ P.E.



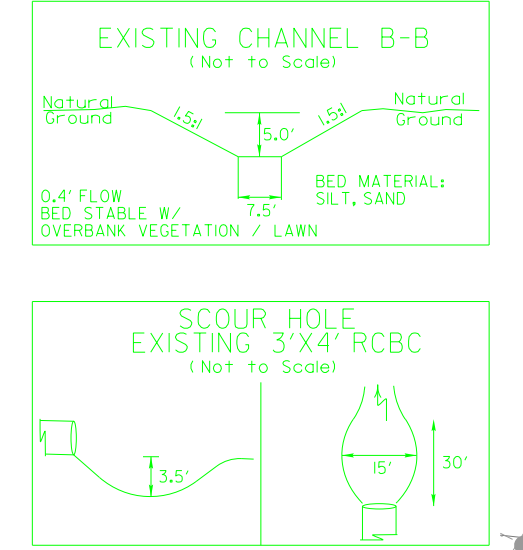
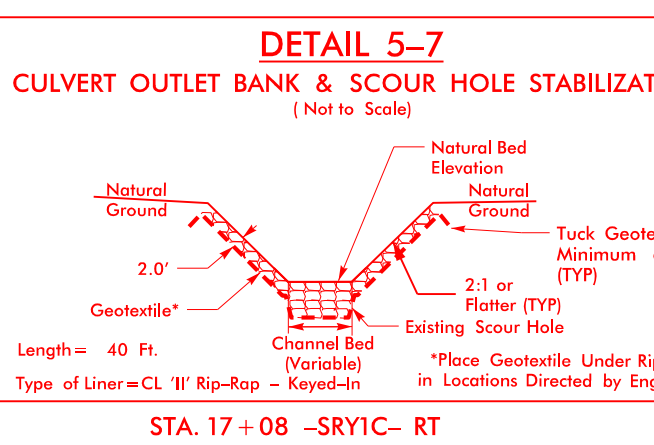
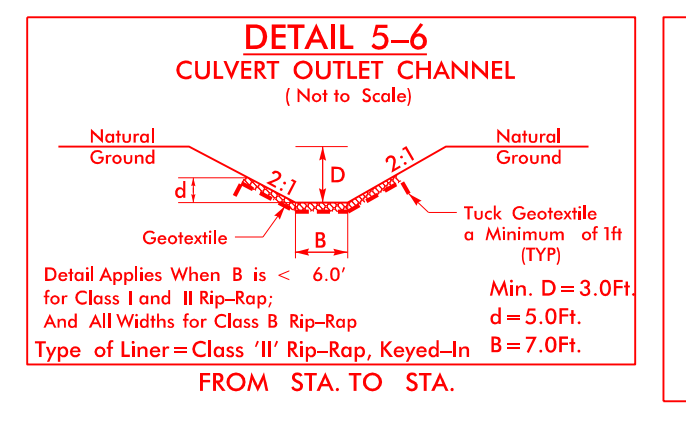
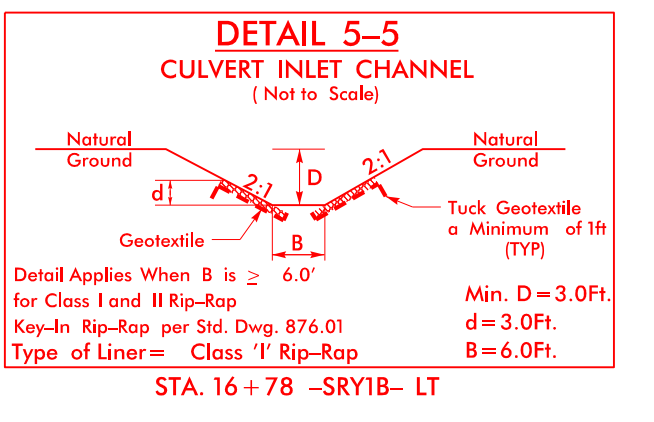
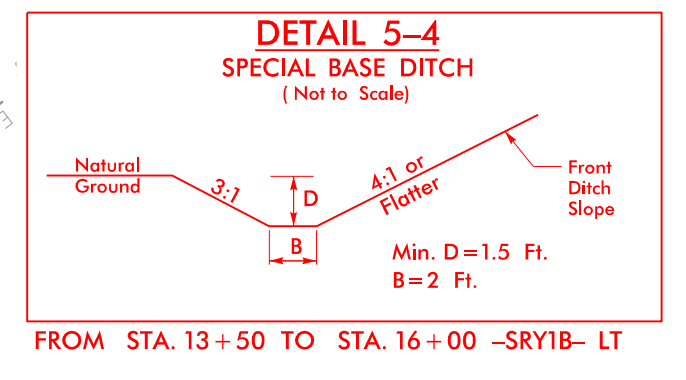
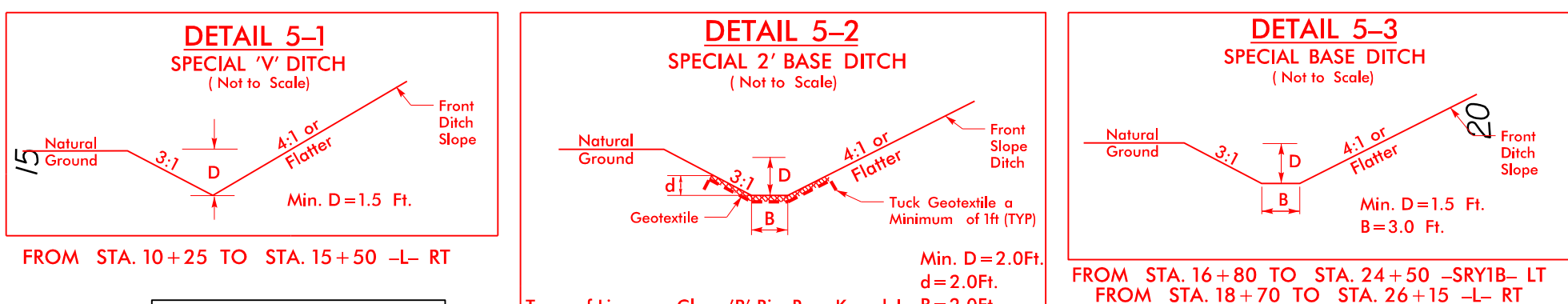
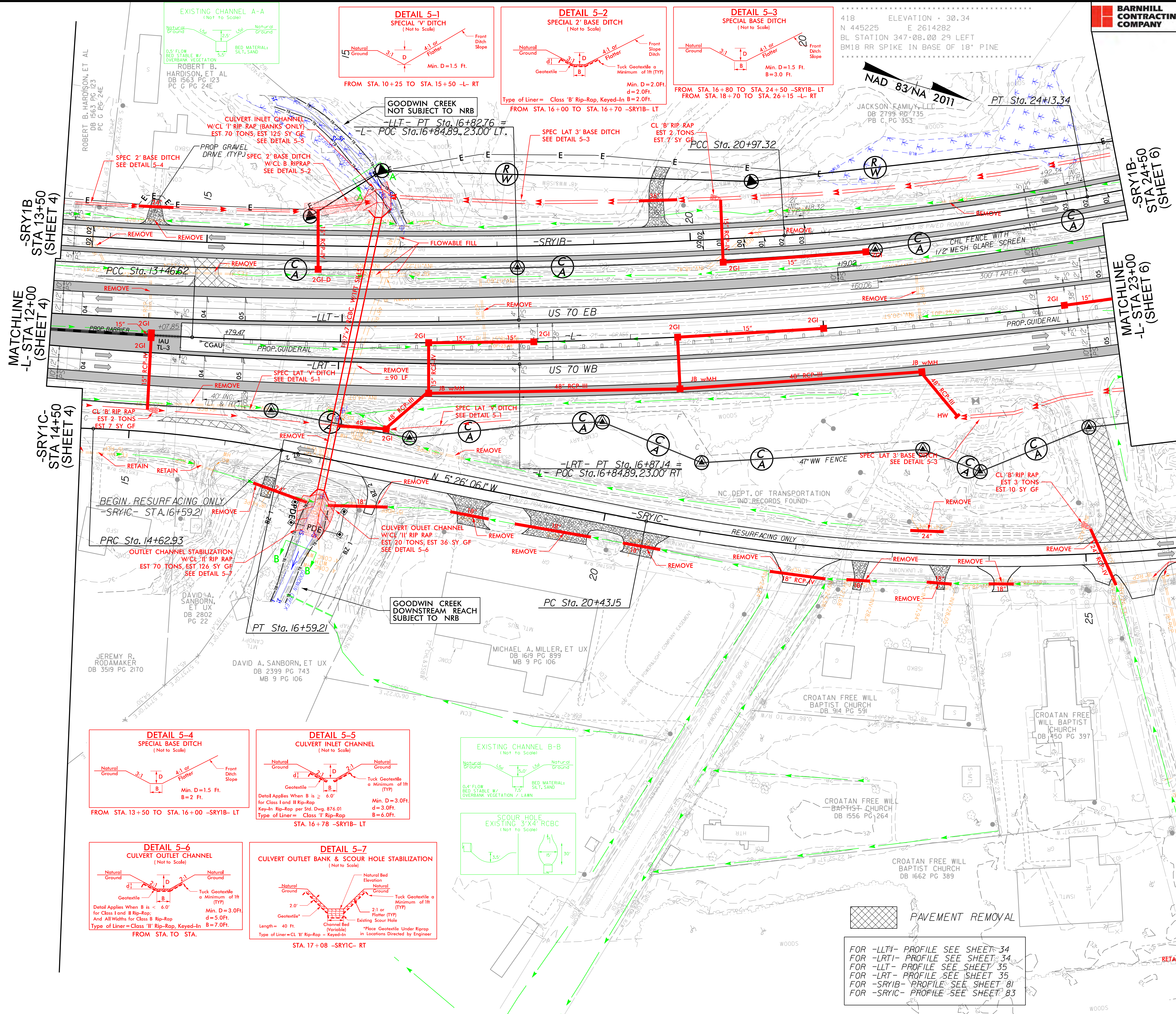
2/27/2023
R-5777C_Hyd_SH_01.dgn
Belcam

CONTRACT: C204695



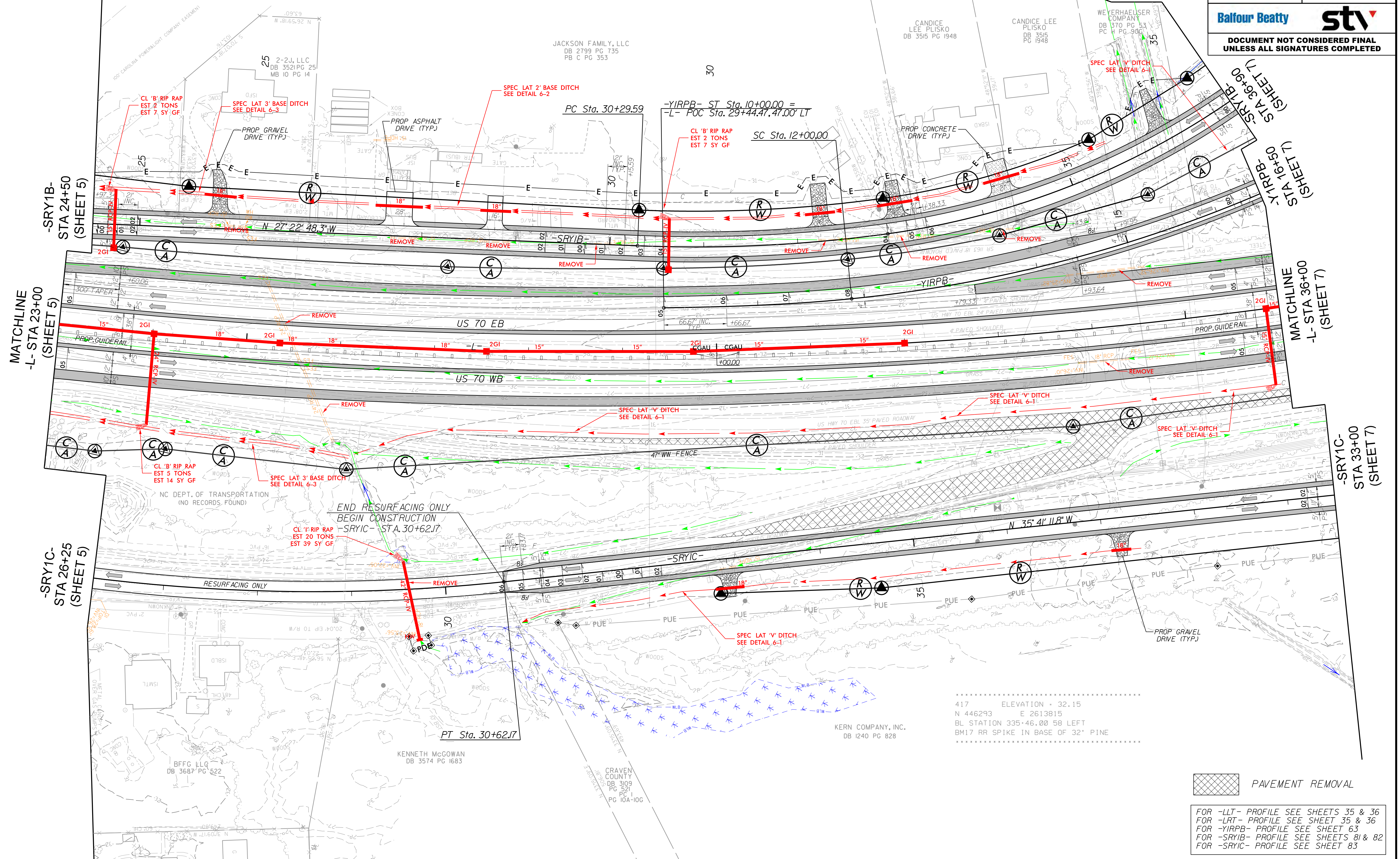
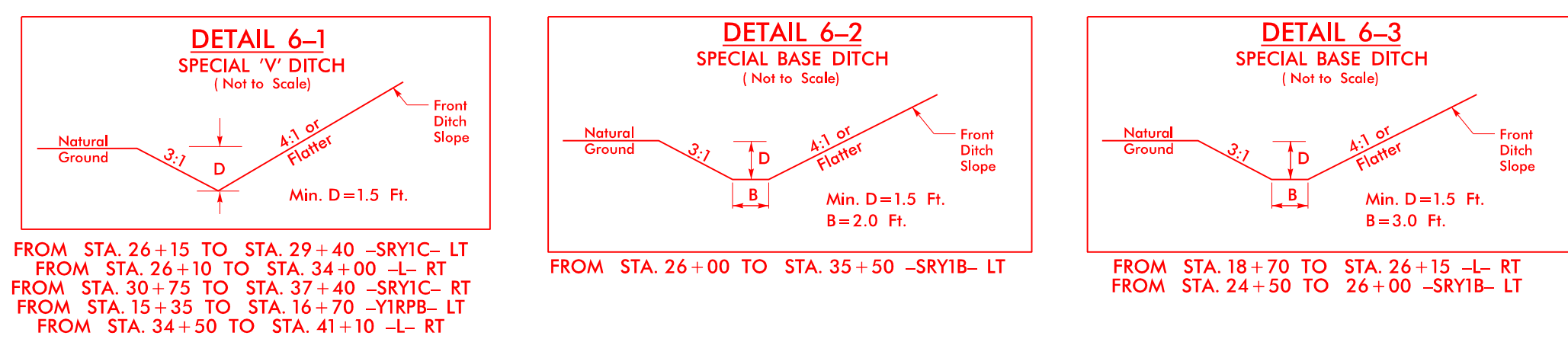
.....
 419 ELEVATION - 29.34
 N 443535 E 2614708
 BL STATION 364+50.00 3 RIGHT
 BM19 RR SPIKE SET IN PAVEMENT

FOR -LLT- PROFILE SEE SHEET 34
 FOR -LRT- PROFILE SEE SHEET 34
 FOR -SRY1B- PROFILE SEE SHEET 81



FOR -LTY- PROFILE SEE SHEET 34
FOR -LRTI- PROFILE SEE SHEET 34
FOR -LRT- PROFILE SEE SHEET 35
FOR -LRT- PROFILE SEE SHEET 35
FOR -SRY1B- PROFILE SEE SHEET 81
FOR -SRY1C- PROFILE SEE SHEET 83

6/21/2023
R-5777C-Hydr_PSH_05.dgn



R-5777C-Hydr_PSH_06.dgn

PAVEMENT REMOVAL
 FOR -LLT- PROFILE SEE SHEETS 35 & 36
 FOR -LRT- PROFILE SEE SHEET 35 & 36
 FOR -YIRPB- PROFILE SEE SHEET 63
 FOR -SRYIB- PROFILE SEE SHEETS 81 & 82
 FOR -SRYIC- PROFILE SEE SHEET 83

6/2/23

6/21/2023
R-5777C_Hyd_PSH_07.dgn

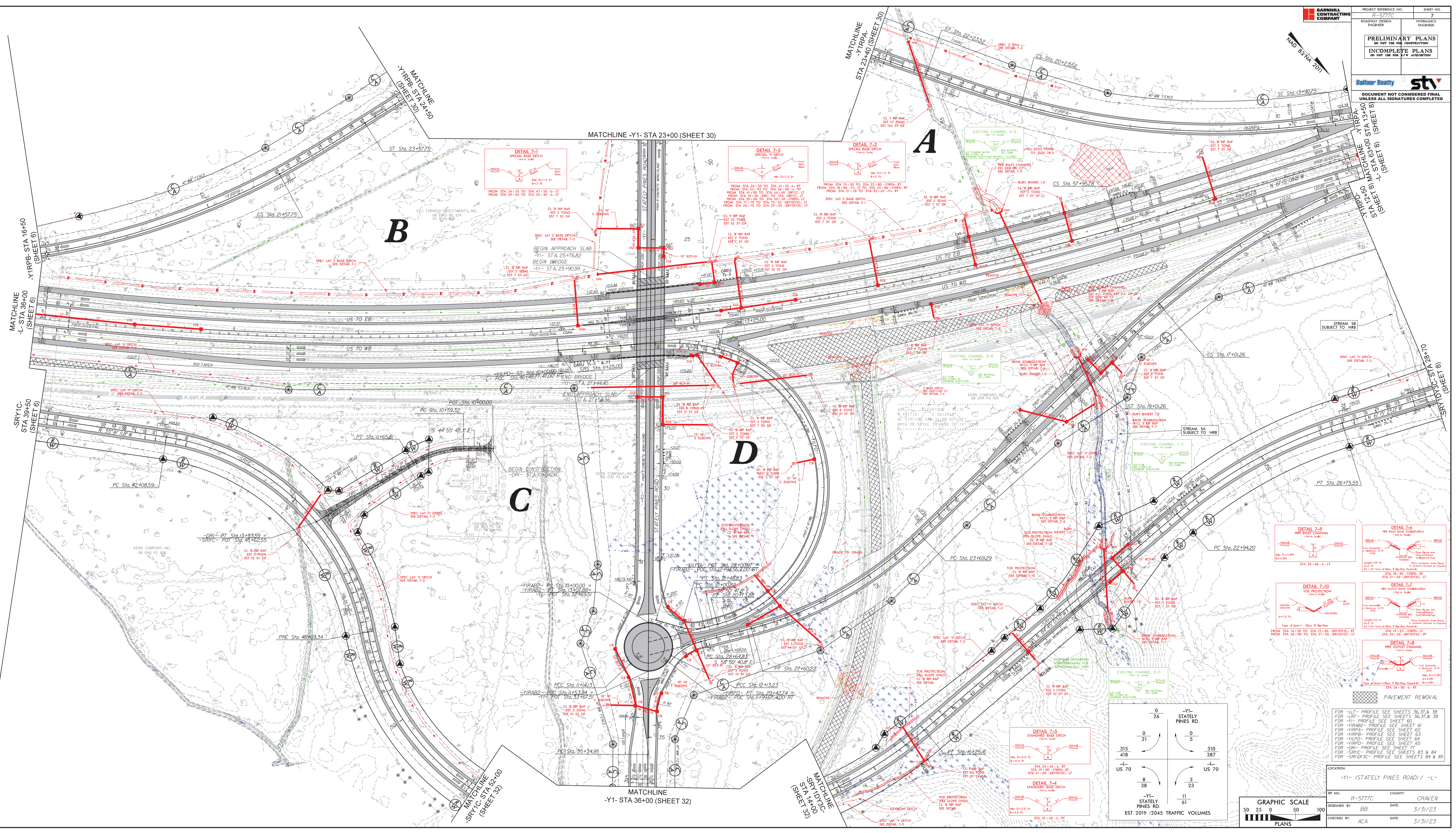
BARNHILL CONTRACTING COMPANY

PROJECT REFERENCE NO: R-5777C SHEET NO: 7
 ROADWAY DESIGN ENGINEER HYDRAULICS ENGINEER

PRELIMINARY PLANS
 DO NOT USE FOR CONSTRUCTION
INCOMPLETE PLANS
 DO NOT USE FOR E/F ACQUISITION

Ballou Realty stv

DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED



DETAIL 7-9
 18" V-DITCH
 SEE DETAIL 7-3

DETAIL 7-10
 18" V-DITCH
 SEE DETAIL 7-3

DETAIL 7-11
 18" V-DITCH
 SEE DETAIL 7-3

DETAIL 7-12
 18" V-DITCH
 SEE DETAIL 7-3

DETAIL 7-13
 18" V-DITCH
 SEE DETAIL 7-3

DETAIL 7-14
 18" V-DITCH
 SEE DETAIL 7-3

DETAIL 7-15
 18" V-DITCH
 SEE DETAIL 7-3

DETAIL 7-16
 18" V-DITCH
 SEE DETAIL 7-3

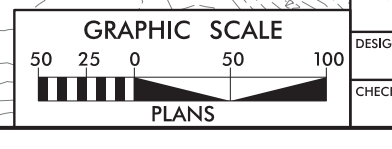
DETAIL 7-17
 18" V-DITCH
 SEE DETAIL 7-3

DETAIL 7-18
 18" V-DITCH
 SEE DETAIL 7-3

DETAIL 7-19
 18" V-DITCH
 SEE DETAIL 7-3

DETAIL 7-20
 18" V-DITCH
 SEE DETAIL 7-3

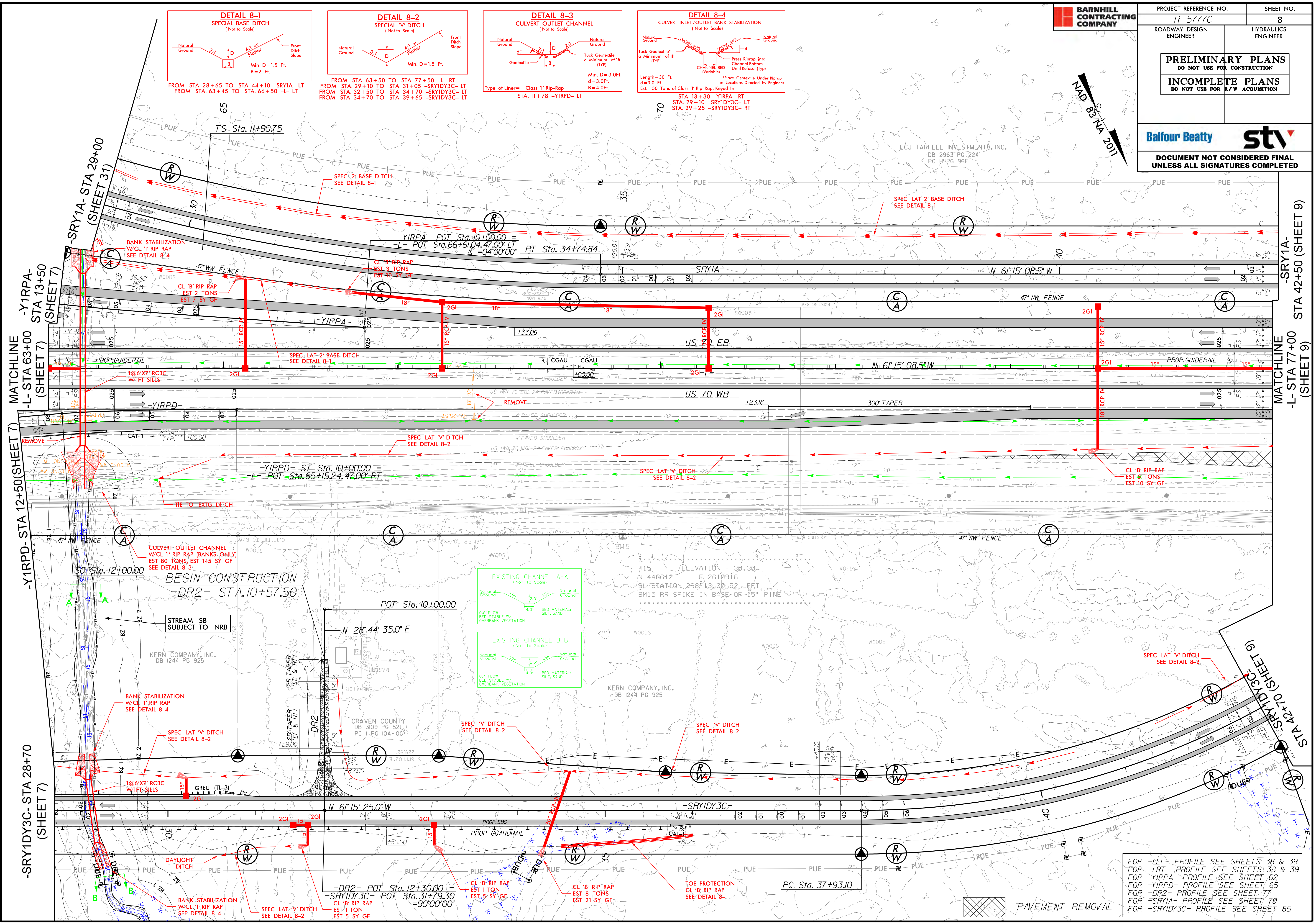
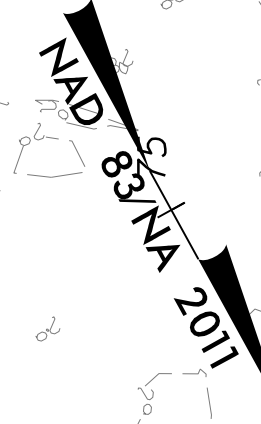
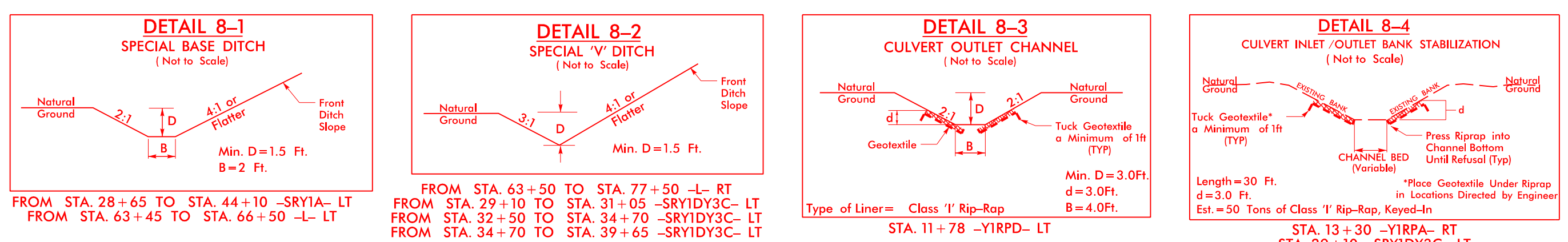
0	26	-Y1- STALEY PINES RD.	0	5
315	21		310	387
418				
US 70			US 70	
8	38		3	23
-Y1- STALEY PINES RD.	11		61	
EST. 2019 / 2045 TRAFFIC VOLUMES				



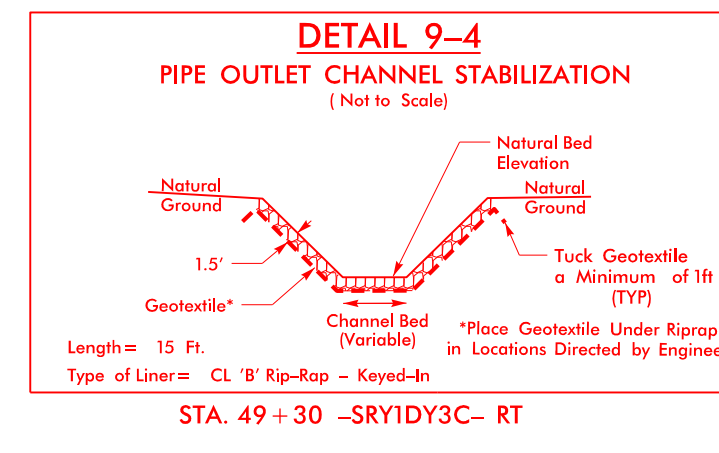
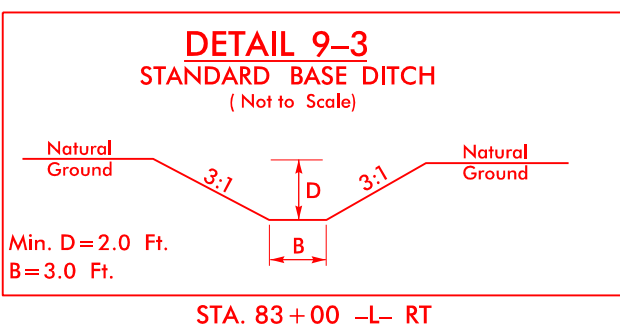
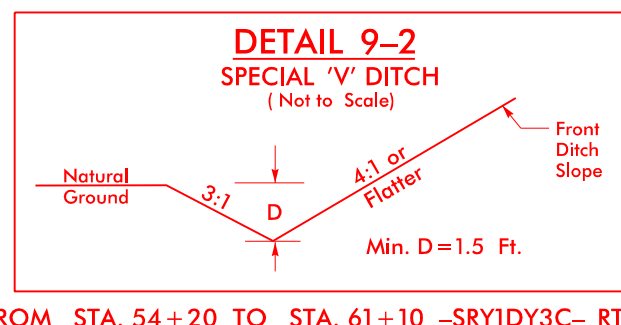
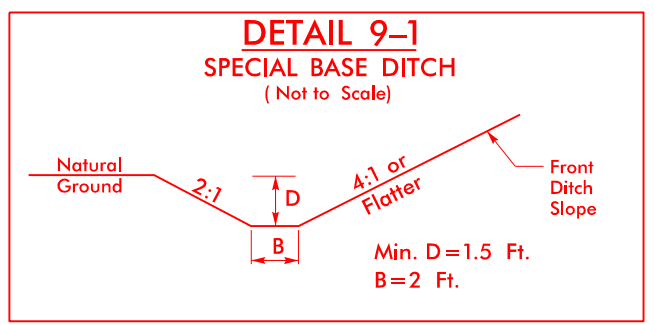
FOR -Y1- PROFILE SEE SHEETS 36, 37, & 38
 FOR -Y1- PROFILE SEE SHEETS 36, 37, & 38
 FOR -Y1- PROFILE SEE SHEET 60
 FOR -Y1- PROFILE SEE SHEET 60
 FOR -Y1- PROFILE SEE SHEET 63
 FOR -Y1- PROFILE SEE SHEET 64
 FOR -Y1- PROFILE SEE SHEET 65
 FOR -Y1- PROFILE SEE SHEET 65
 FOR -Y1- PROFILE SEE SHEETS 83 & 84
 FOR -Y1- PROFILE SEE SHEETS 83 & 84

LOCATION:
 -Y1- (STALEY PINES ROAD) / -L-

TP NO: R-5777C COUNTY: CRANEH
 DESIGNED BY: BB DATE: 3/31/23
 CHECKED BY: ACA DATE: 3/31/23



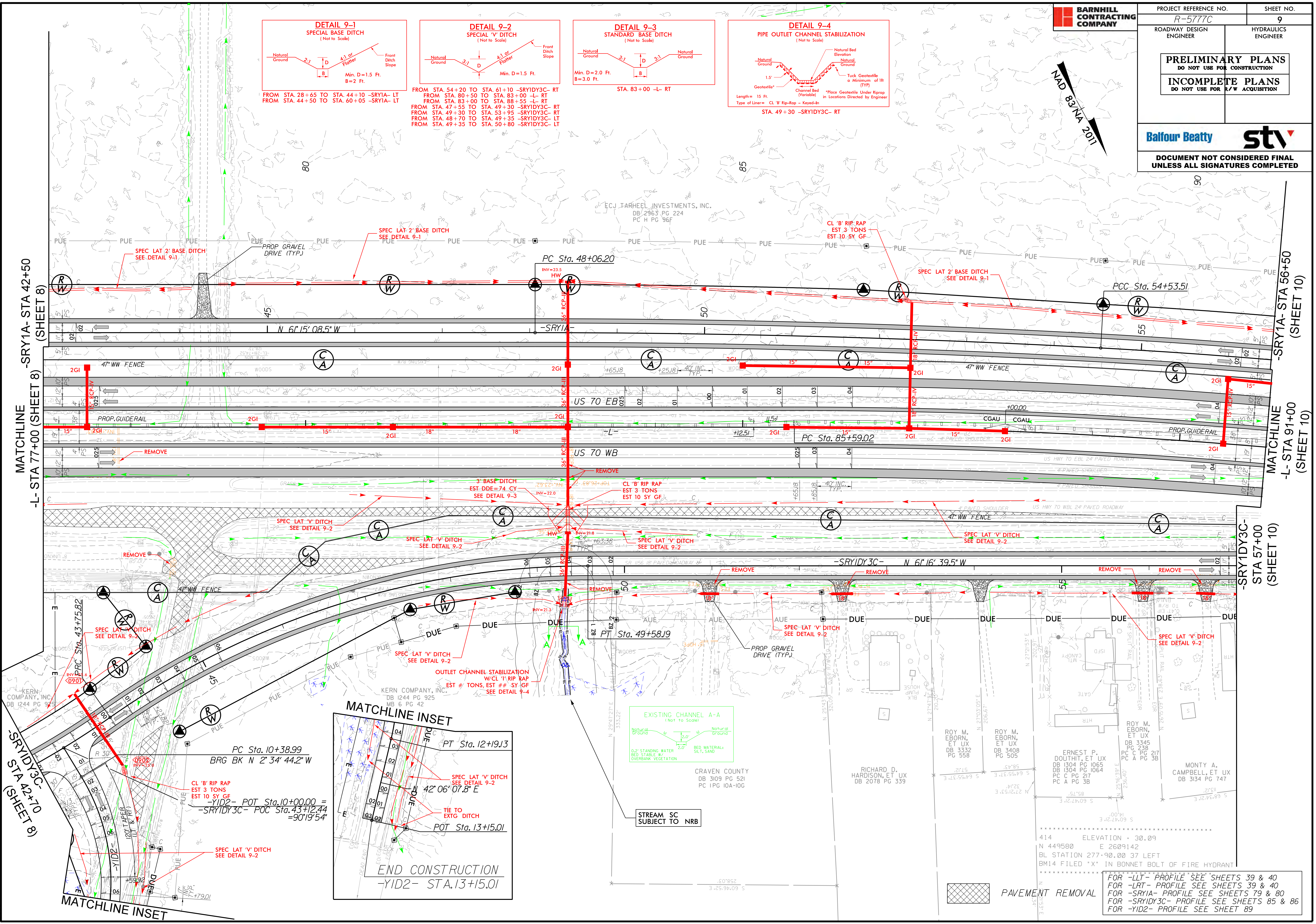
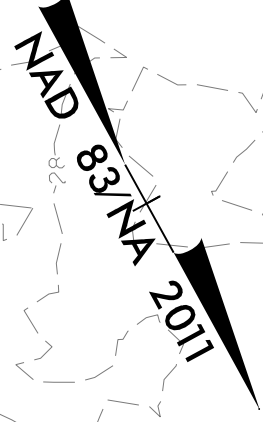
FOR -LLT- PROFILE SEE SHEETS 38 & 39
 FOR -LRT- PROFILE SEE SHEETS 38 & 39
 FOR -YIRPA- PROFILE SEE SHEET 62
 FOR -YIRPD- PROFILE SEE SHEET 65
 FOR -DR2- PROFILE SEE SHEET 77
 FOR -SRVIA- PROFILE SEE SHEET 79
 FOR -SRVIDY3C- PROFILE SEE SHEET 85



FROM STA. 28+65 TO STA. 44+10 -SRY1A- LT
FROM STA. 44+50 TO STA. 60+05 -SRY1A- LT
FROM STA. 54+20 TO STA. 61+10 -SRY1DY3C- RT
FROM STA. 80+50 TO STA. 83+00 -L- RT
FROM STA. 83+00 TO STA. 88+55 -L- RT
FROM STA. 47+55 TO STA. 49+30 -SRY1DY3C- RT
FROM STA. 49+30 TO STA. 53+95 -SRY1DY3C- RT
FROM STA. 48+70 TO STA. 49+35 -SRY1DY3C- LT
FROM STA. 49+35 TO STA. 50+80 -SRY1DY3C- LT

STA. 83+00 -L- RT

STA. 49+30 -SRY1DY3C- RT



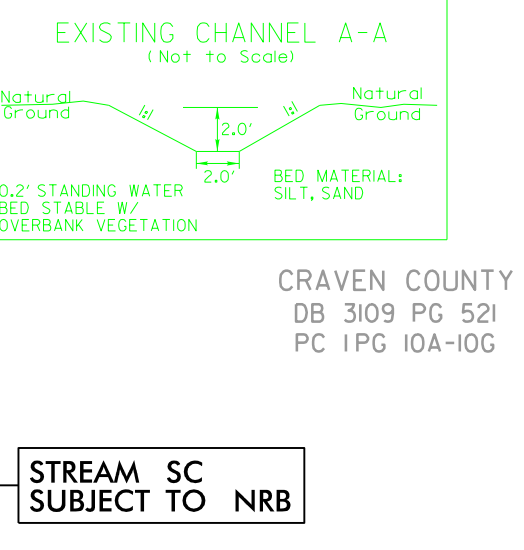
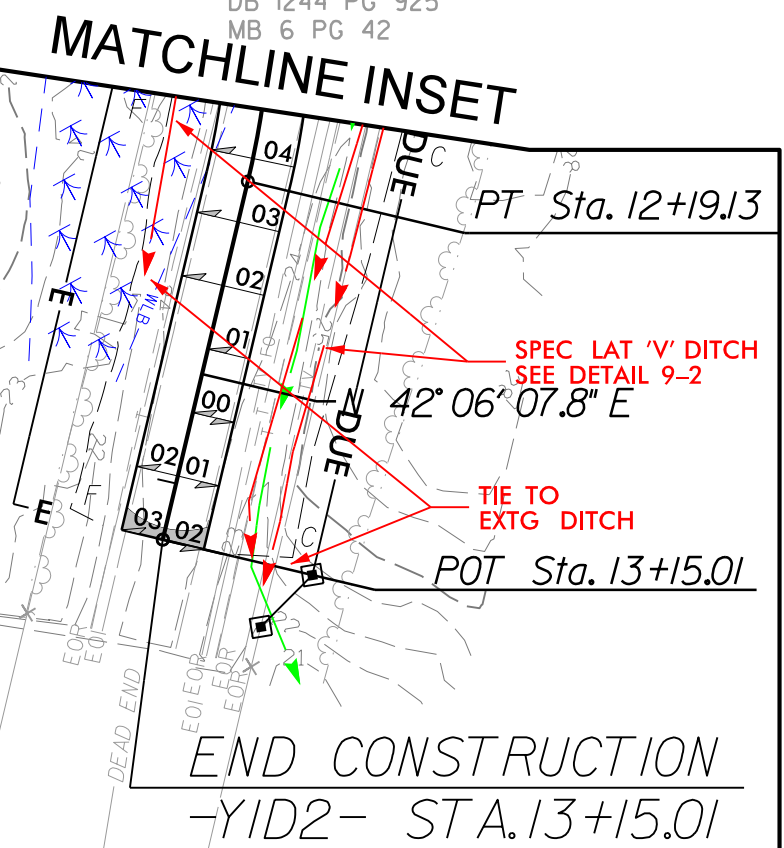
MATCHLINE
-L- STA 77+00 (SHEET 8)

MATCHLINE
-SRY1DY3C- STA 42+50 (SHEET 8)

MATCHLINE
-SRY1A- STA 56+50 (SHEET 10)

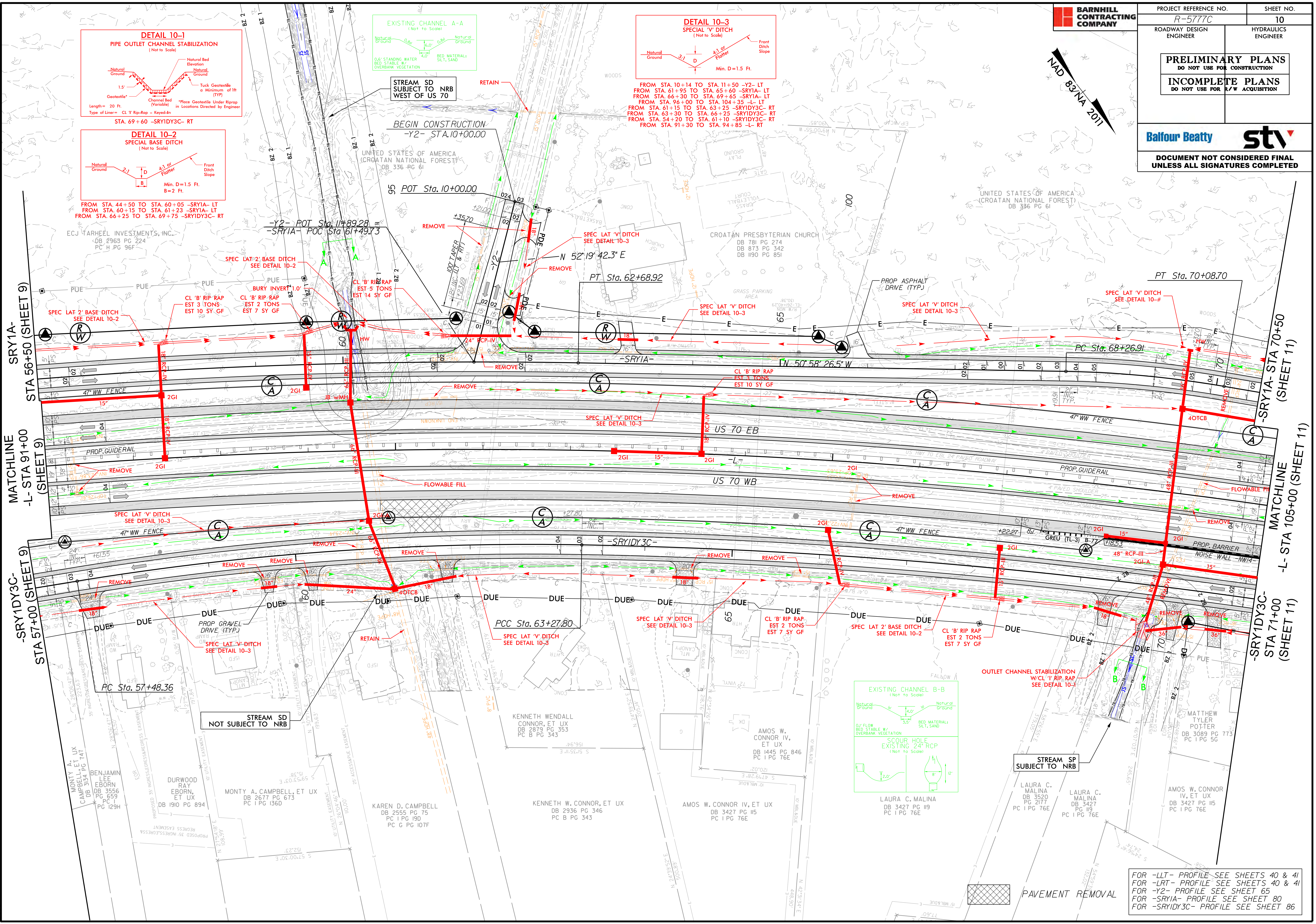
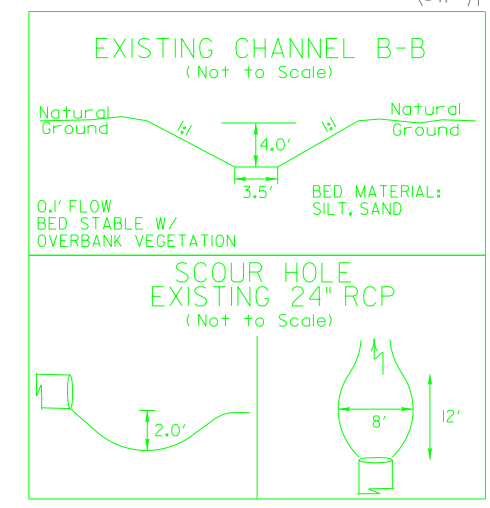
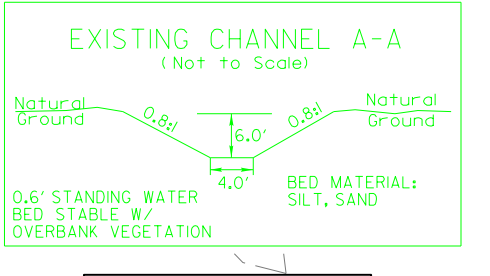
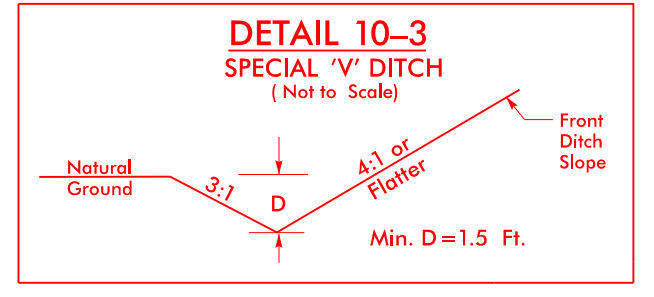
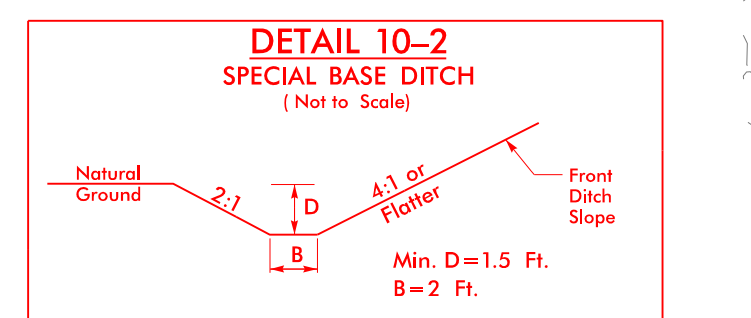
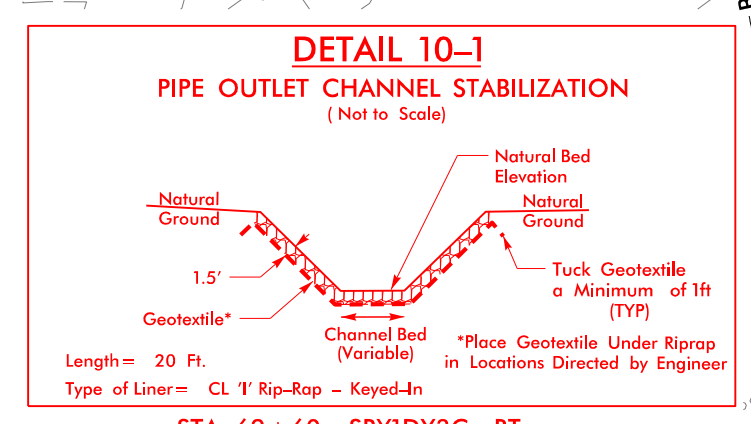
MATCHLINE
-L- STA 91+00 (SHEET 10)

MATCHLINE
-SRY1DY3C- STA 57+00 (SHEET 10)



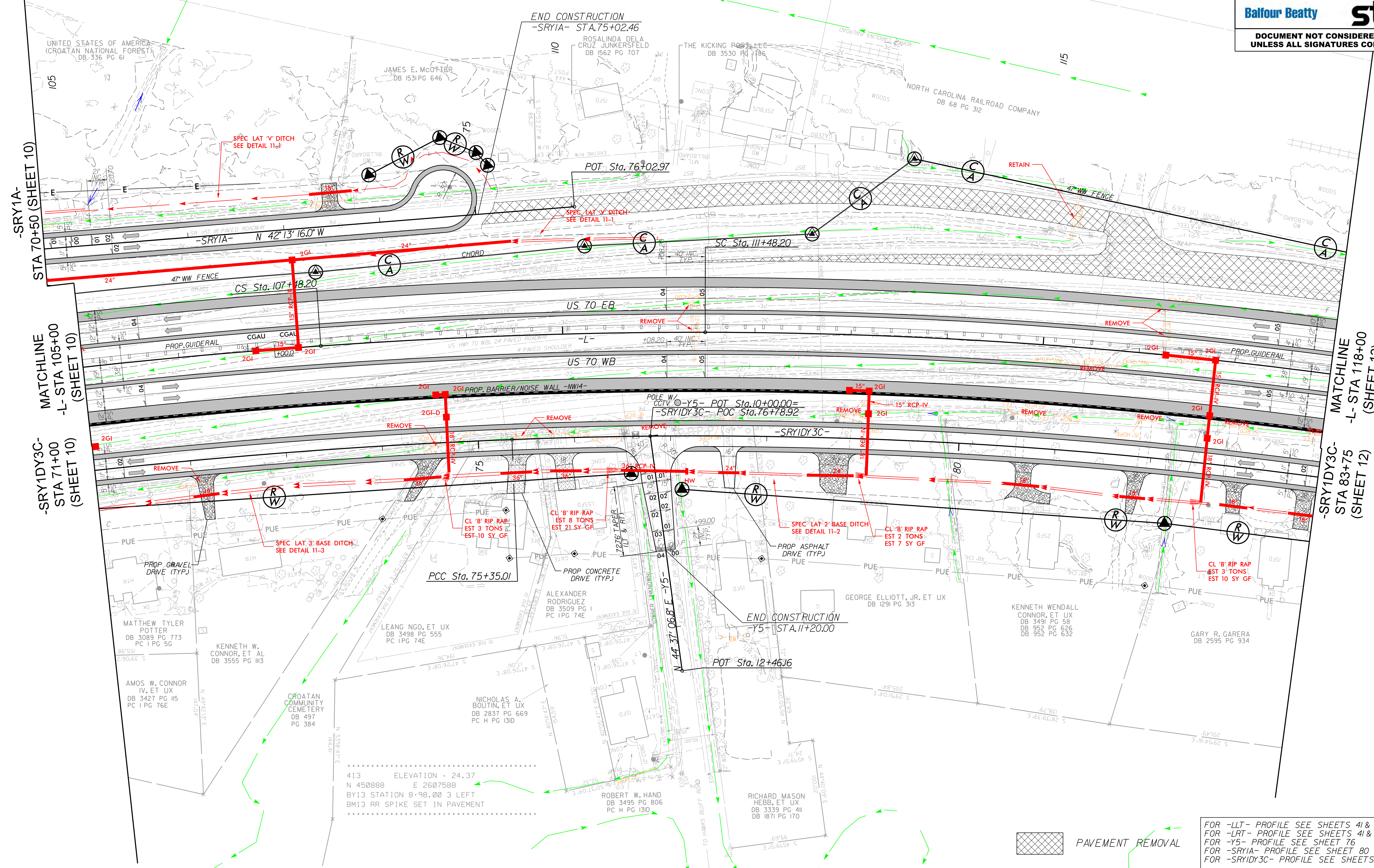
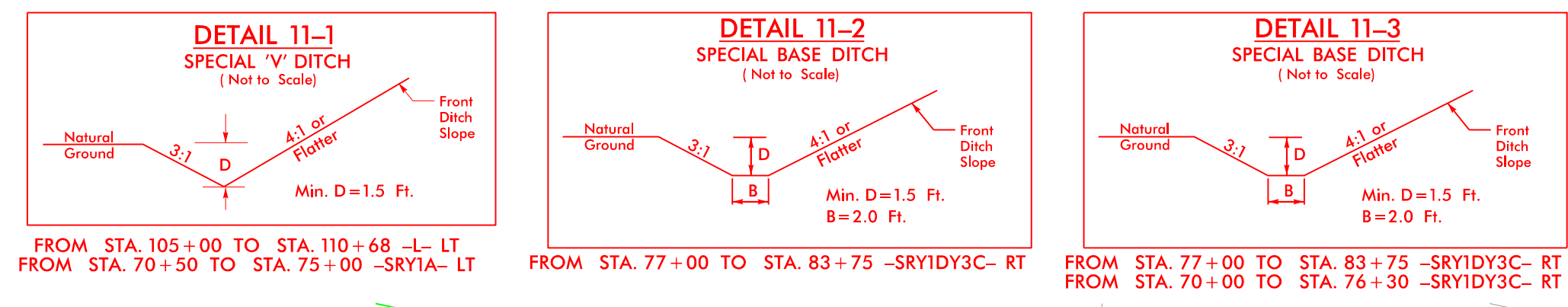
FOR -LLT- PROFILE SEE SHEETS 39 & 40
FOR -LRT- PROFILE SEE SHEETS 39 & 40
FOR -SRY1A- PROFILE SEE SHEETS 79 & 80
FOR -SRY1DY3C- PROFILE SEE SHEETS 85 & 86
FOR -YID2- PROFILE SEE SHEET 89

6/21/2023
R-5777C-Hyd_PSH_09.dgn



FOR -LLT- PROFILE SEE SHEETS 40 & 41
 FOR -LRT- PROFILE SEE SHEETS 40 & 41
 FOR -Y2- PROFILE SEE SHEET 65
 FOR -SR1YA- PROFILE SEE SHEET 80
 FOR -SR1DY3C- PROFILE SEE SHEET 86

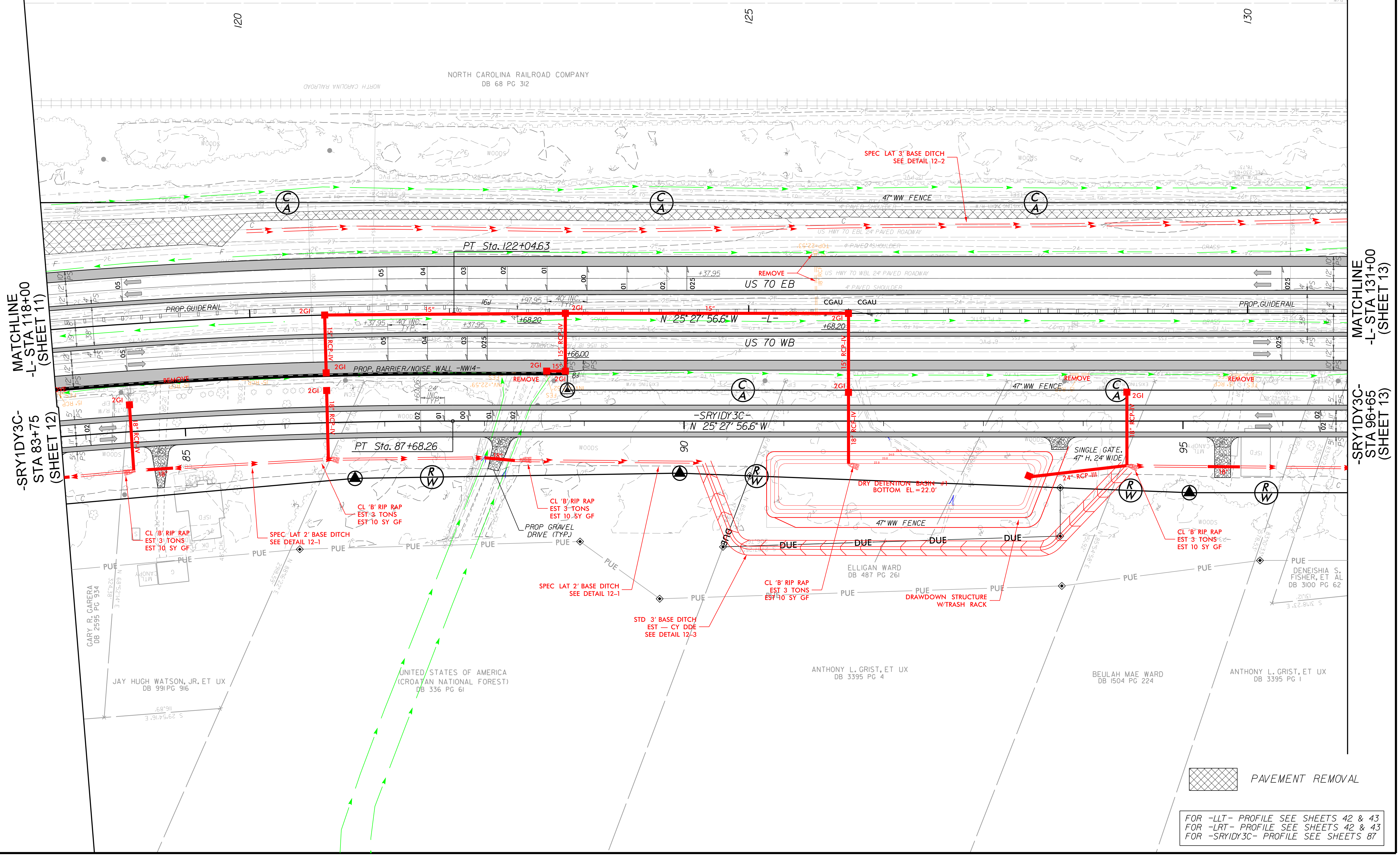
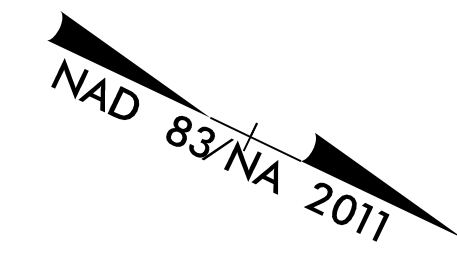
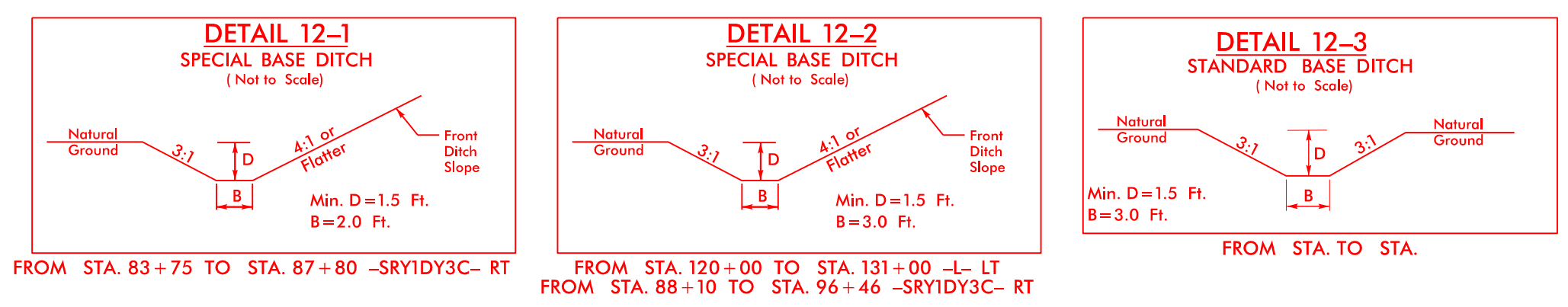
6/21/2023
 R-5777C-Hydro_PSH-10.dgn



6/21/2023 R-5777C-Hydr_PSH_11.dgn

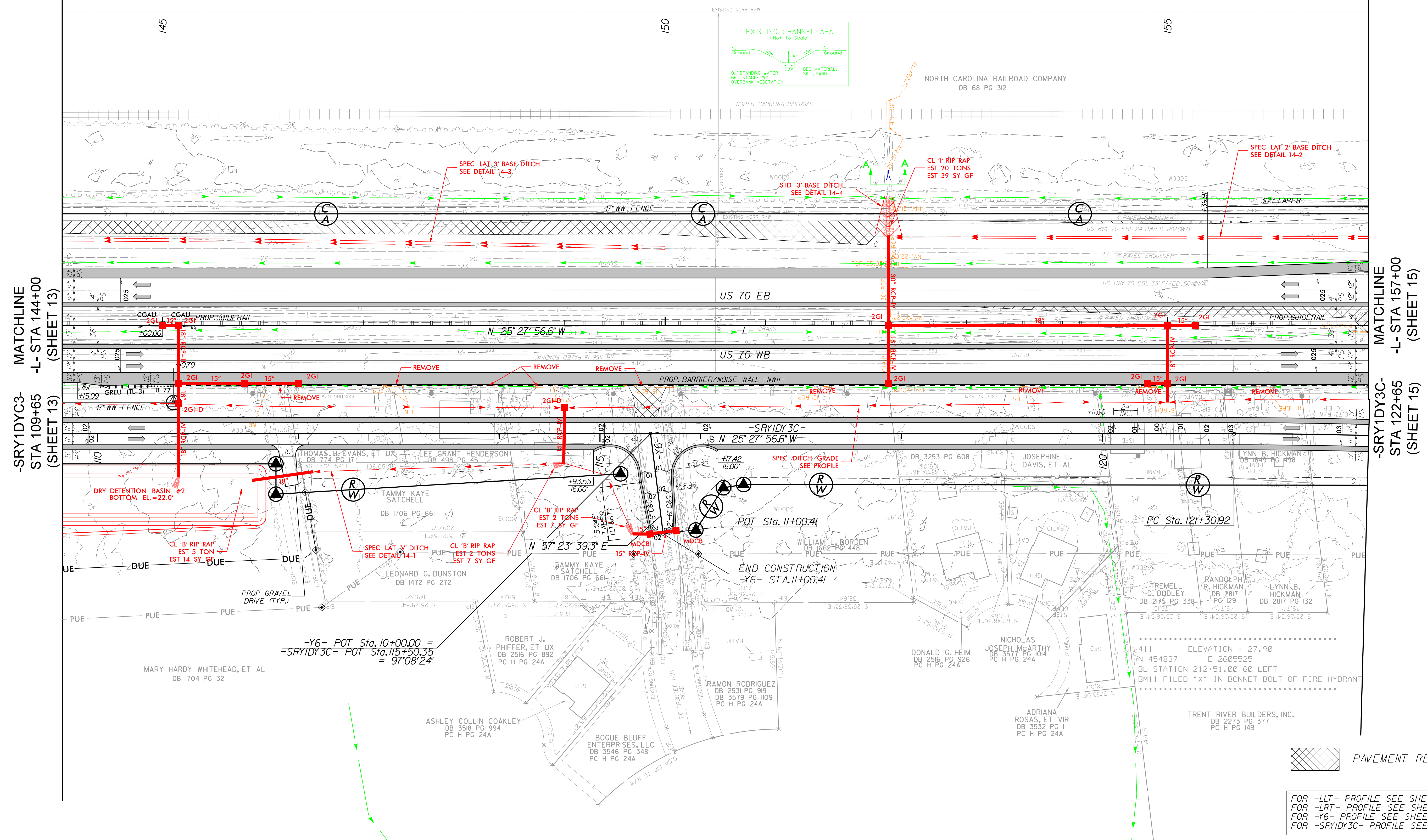
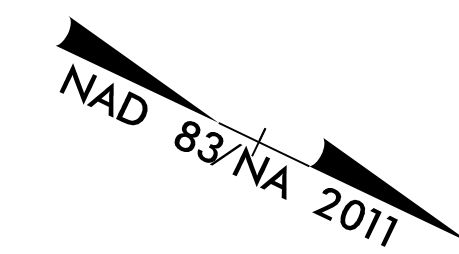
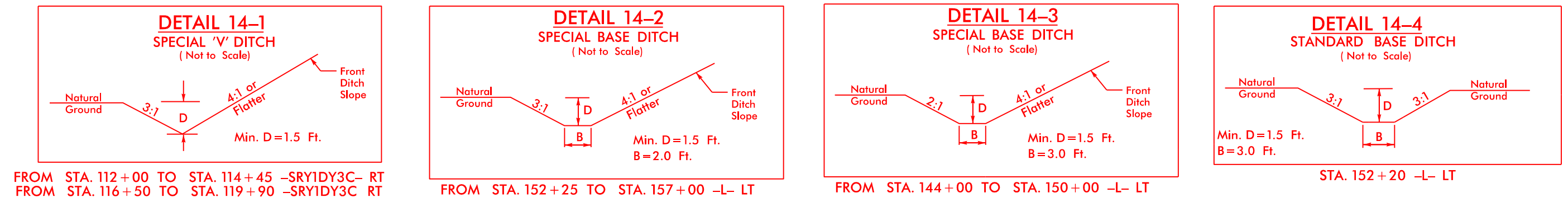
FOR -LLT- PROFILE SEE SHEETS 41 & 42
 FOR -LRT- PROFILE SEE SHEETS 41 & 42
 FOR -Y5- PROFILE SEE SHEET 76
 FOR -SRY1A- PROFILE SEE SHEET 80
 FOR -SRY1DY3C- PROFILE SEE SHEETS 86 & 87

BARNHILL CONTRACTING COMPANY	PROJECT REFERENCE NO.	SHEET NO.
	R-5777C	12
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION		
INCOMPLETE PLANS DO NOT USE FOR A/W ACQUISITION		
Balfour Beatty	stv	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		



6/21/2023 R-5777C-Hydr_PSH_12.dgn

FOR -LLT- PROFILE SEE SHEETS 42 & 43
 FOR -LRT- PROFILE SEE SHEETS 42 & 43
 FOR -SR1DY3C- PROFILE SEE SHEETS 87



PAVEMENT REMOVAL

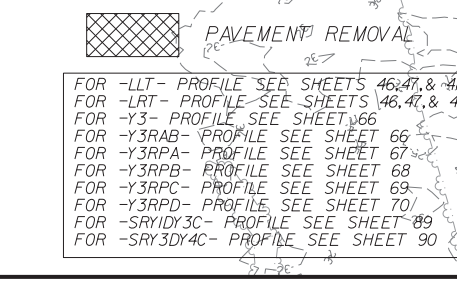
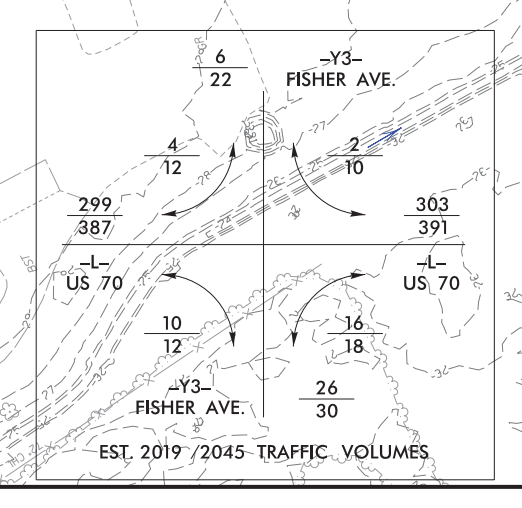
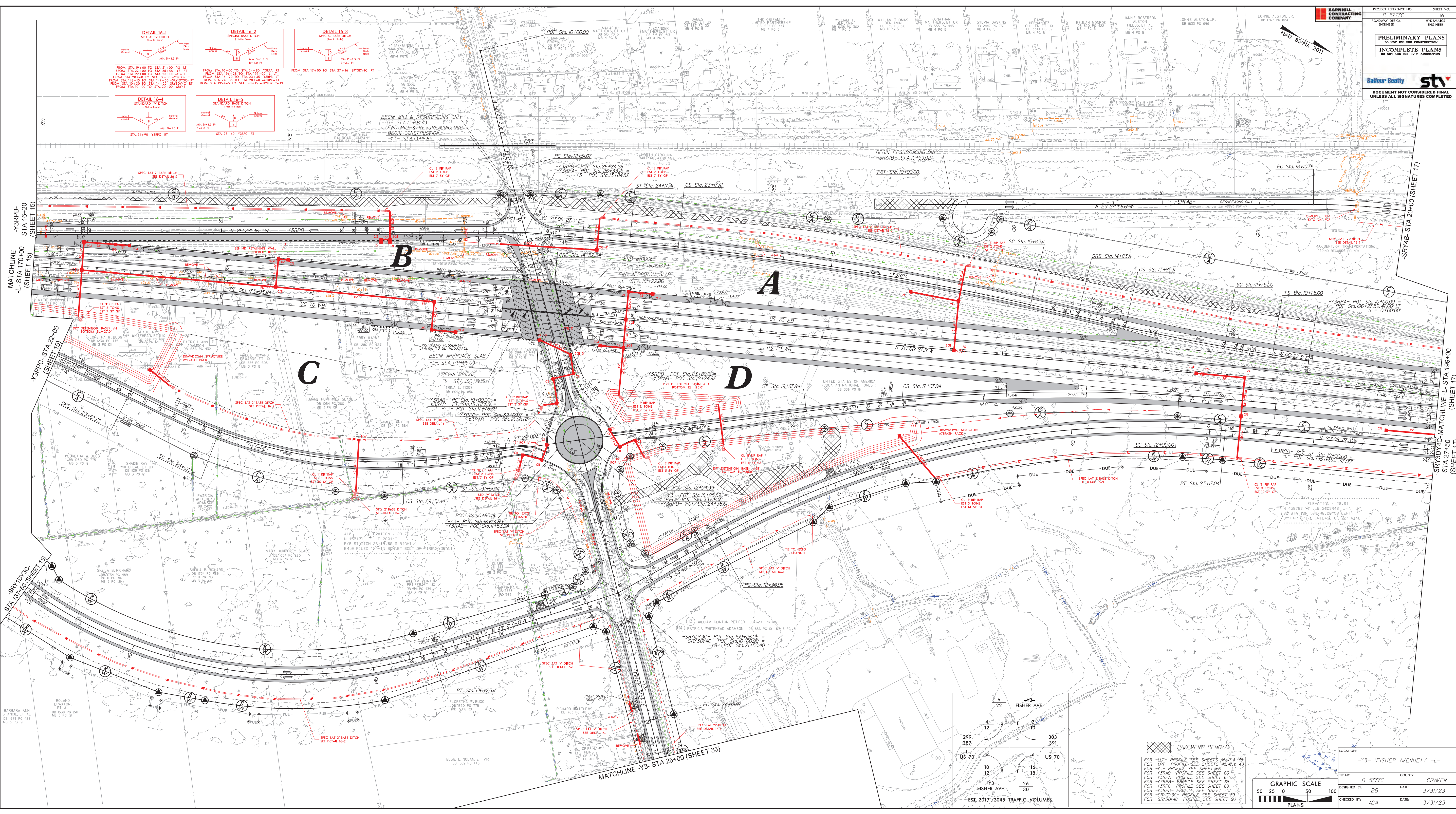
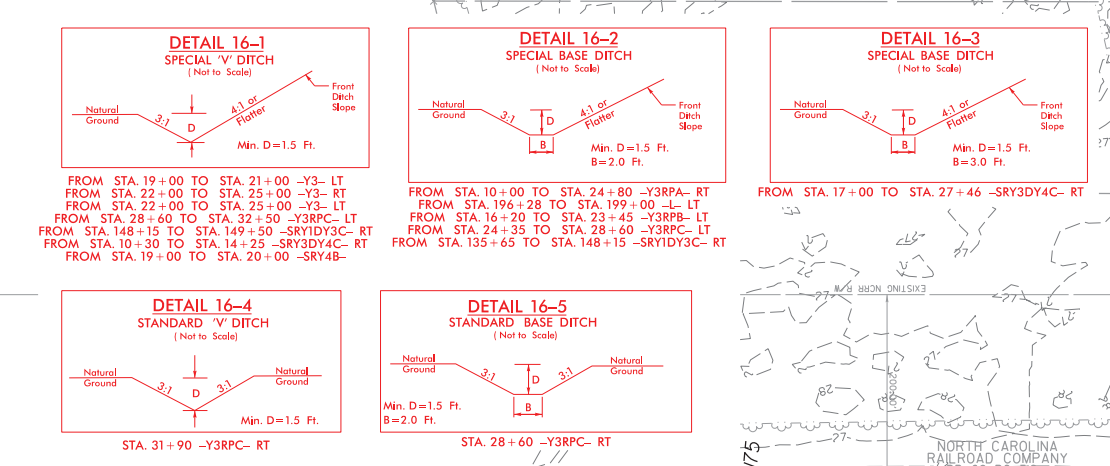
FOR -LLT- PROFILE SEE SHEETS 44 & 45
 FOR -LRT- PROFILE SEE SHEETS 44 & 45
 FOR -Y6- PROFILE SEE SHEET 76
 FOR -SRYDY3C- PROFILE SEE SHEET 88

6/21/2023 R-5777C-Hydr_PSH_14.dgn

6/2/99

REVISIONS

6/21/2023
R-5777C_Hgd.dgn
16.dwg



LOCATION: -Y3- (FISHER AVENUE) / -L-	
TP NO. R-5777C	COUNTY: CRANEH
DRAWN BY: BB	DATE: 3/31/23
CHECKED BY: ACA	DATE: 3/31/23

PROJECT REFERENCE NO. R-5777C SHEET NO. 16

ROADWAY DESIGN ENGINEER HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

INCOMPLETE PLANS
DO NOT USE FOR E/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

BARNHILL CONTRACTING COMPANY

Ballou & Beatty stv

MATCHLINE -Y3RPB- STA 16+20 (SHEET 15)

MATCHLINE -L- STA 170+00 (SHEET 15)

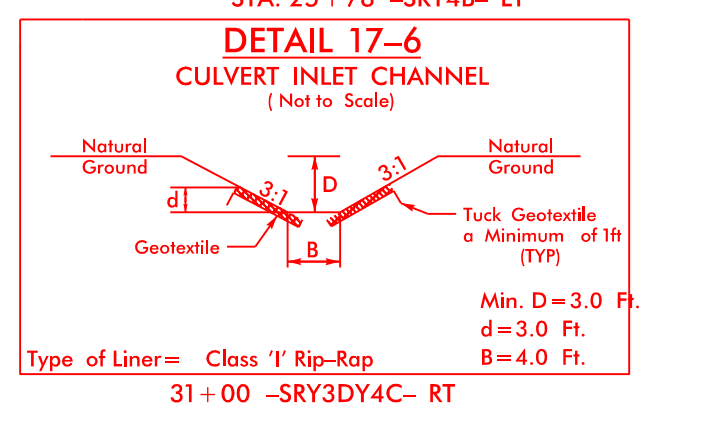
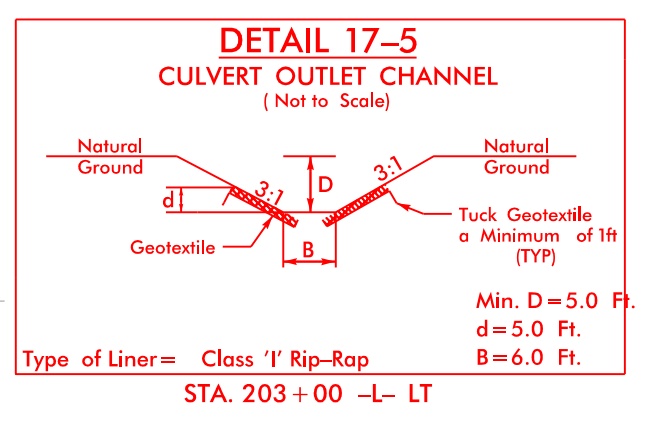
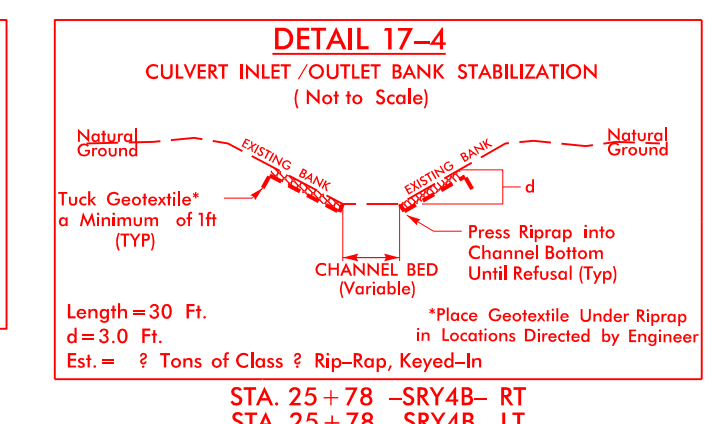
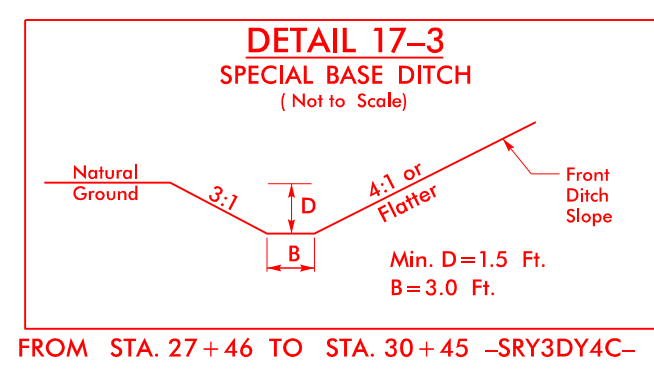
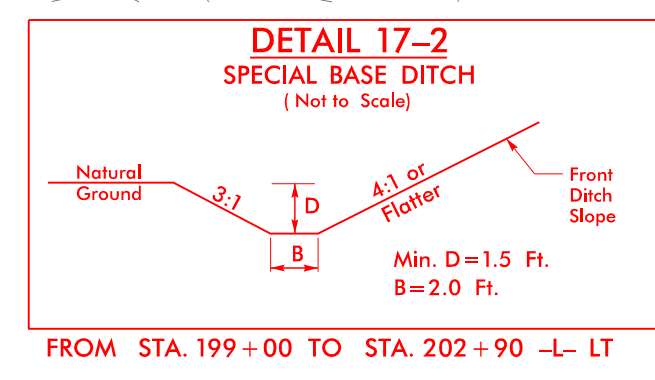
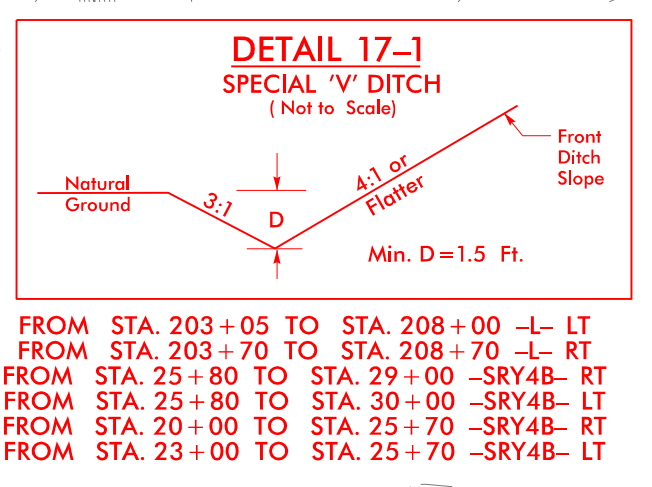
MATCHLINE -Y3RPC- STA 22+00 (SHEET 15)

MATCHLINE -Y3- STA 25+00 (SHEET 33)

MATCHLINE -Y3R4B- STA 20+00 (SHEET 17)

MATCHLINE -L- STA 199+00 (SHEET 17)

MATCHLINE -Y3- STA 25+00 (SHEET 33)



-SRY4B- STA 20+00 (SHEET 16)

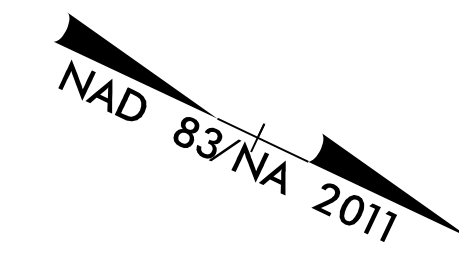
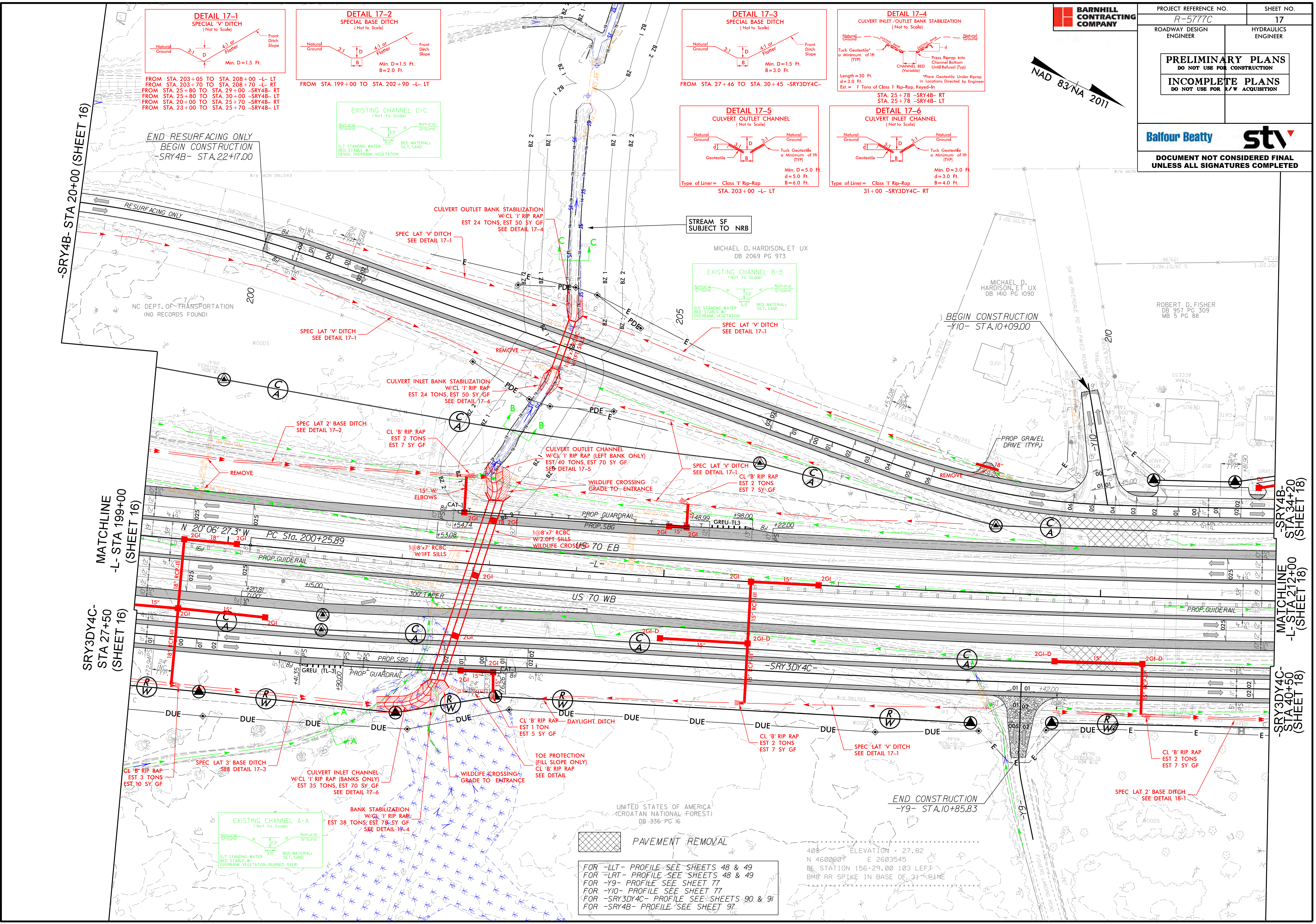
MATCHLINE
-L- STA 199+00
(SHEET 16)

SRY3DY4C-
STA 27+50
(SHEET 16)

MATCHLINE
-SRY4B-
STA 34+20
(SHEET 18)

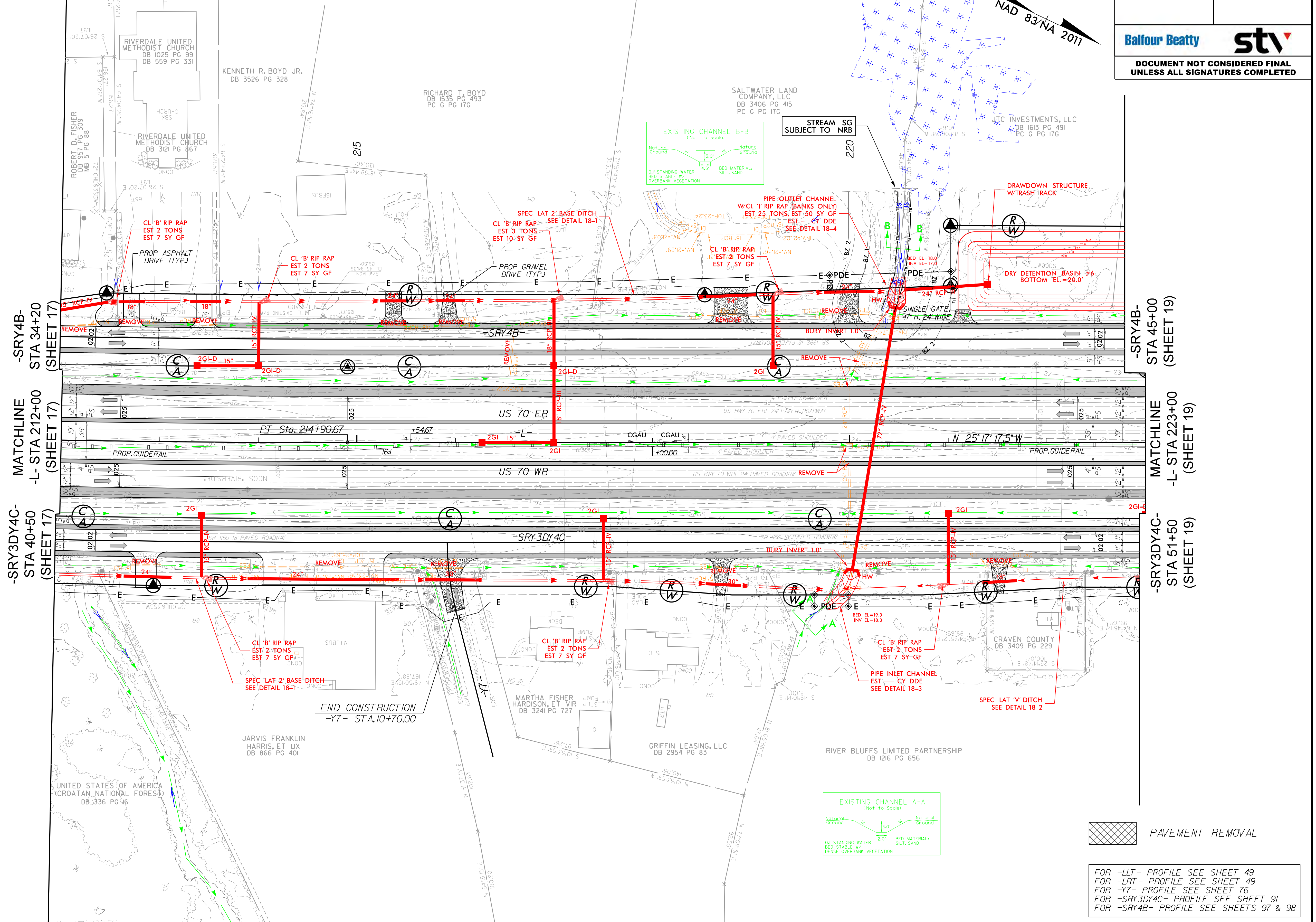
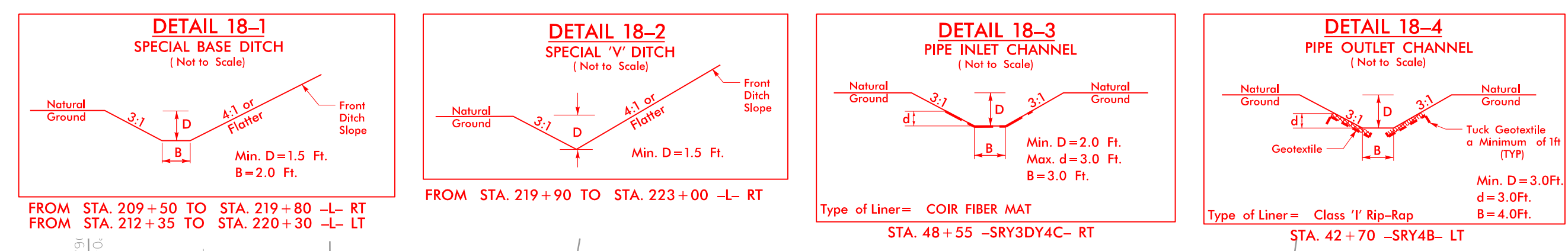
MATCHLINE
-L- STA 212+00
(SHEET 18)

-SRY3DY4C-
STA 40+50
(SHEET 18)



FOR -LLT- PROFILE SEE SHEETS 48 & 49
FOR -LRT- PROFILE SEE SHEETS 48 & 49
FOR -Y9- PROFILE SEE SHEET 77
FOR -Y10- PROFILE SEE SHEET 77
FOR -SRY3DY4C- PROFILE SEE SHEETS 90 & 91
FOR -SRY4B- PROFILE SEE SHEET 97

ELEVATION = 27.82
N 4600807 E 2603545
BL STATION 156+29.00 103 LEFT
BM RR SPIKE IN BASE OF 31' PINE

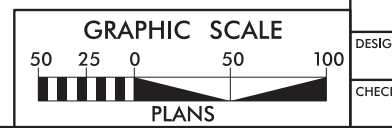
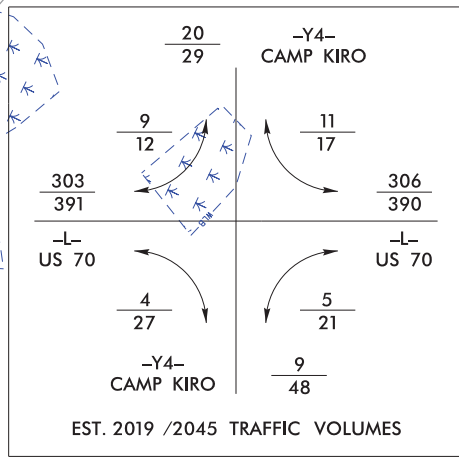
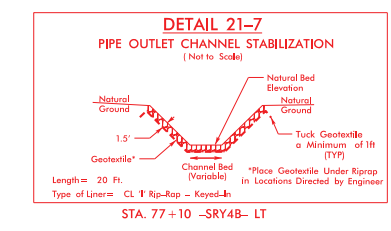
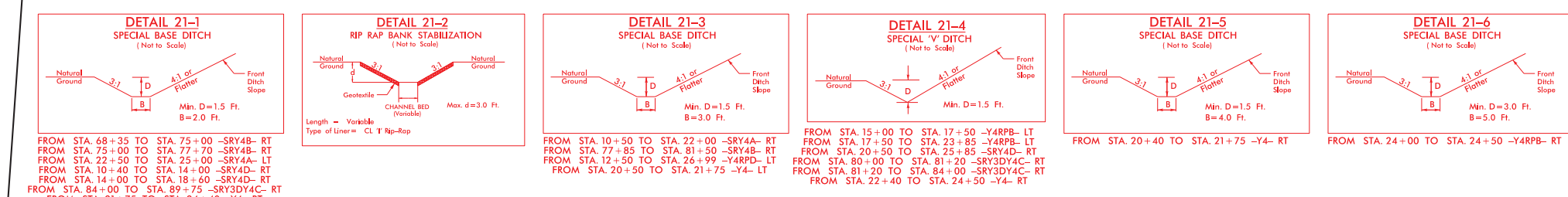
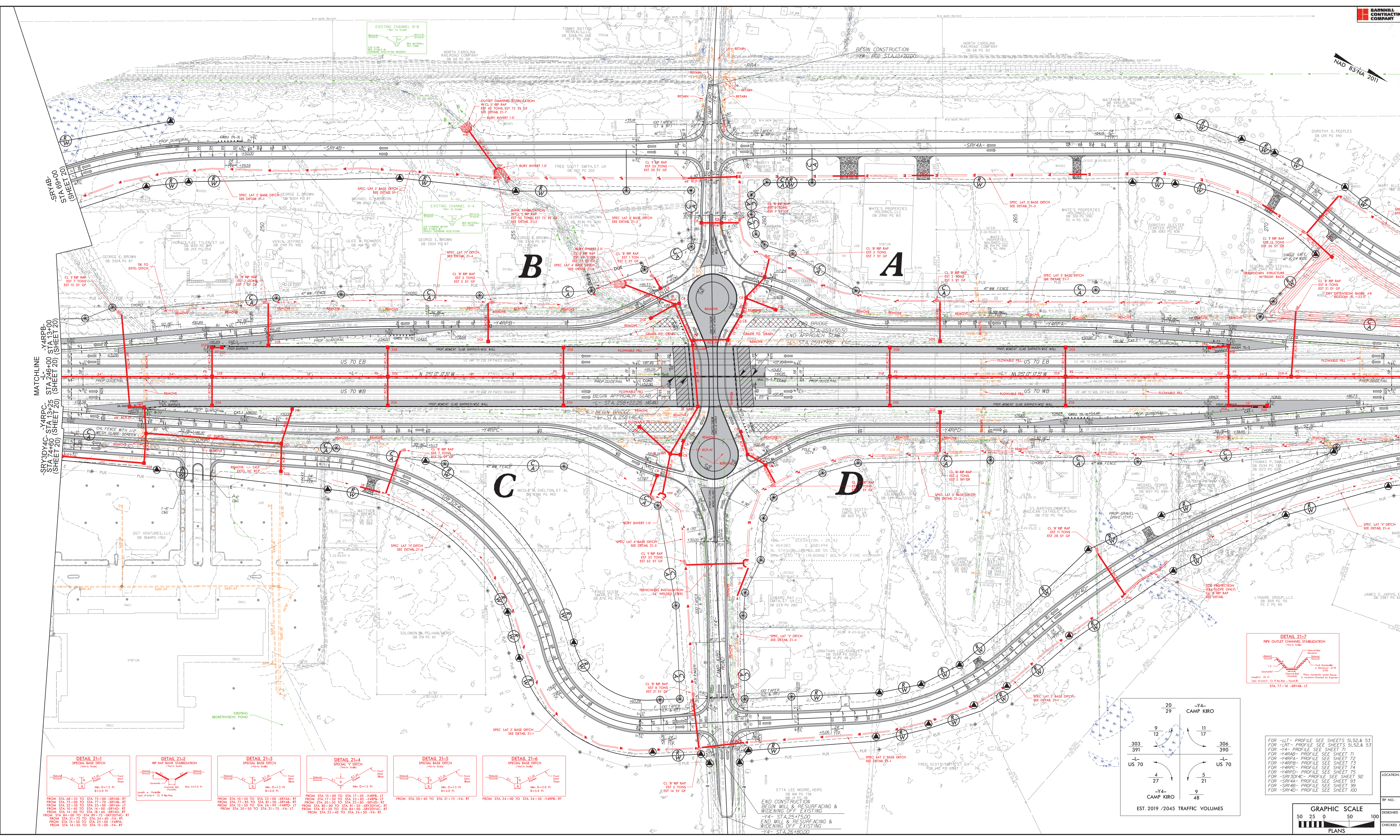


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FOR -LLT- PROFILE SEE SHEET 49
 FOR -LRT- PROFILE SEE SHEET 49
 FOR -Y7- PROFILE SEE SHEET 76
 FOR -SRY3DY4C- PROFILE SEE SHEET 91
 FOR -SRY4B- PROFILE SEE SHEETS 97 & 98

6/2/23

6/21/2023
R-5777C_Hyd_PSI_21.dgn



PROJECT REFERENCE NO. R-5777C
SHEET NO. 21
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION
INCOMPLETE PLANS
DO NOT USE FOR E/W ACQUISITION

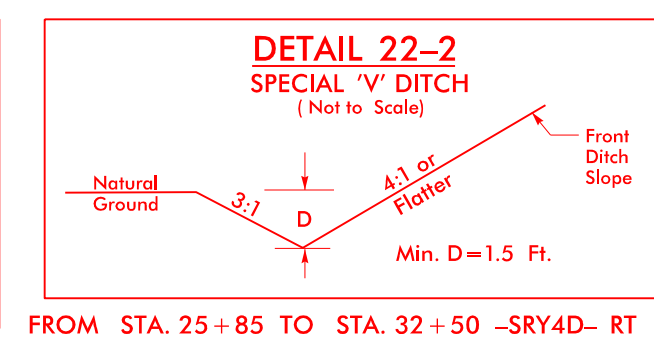
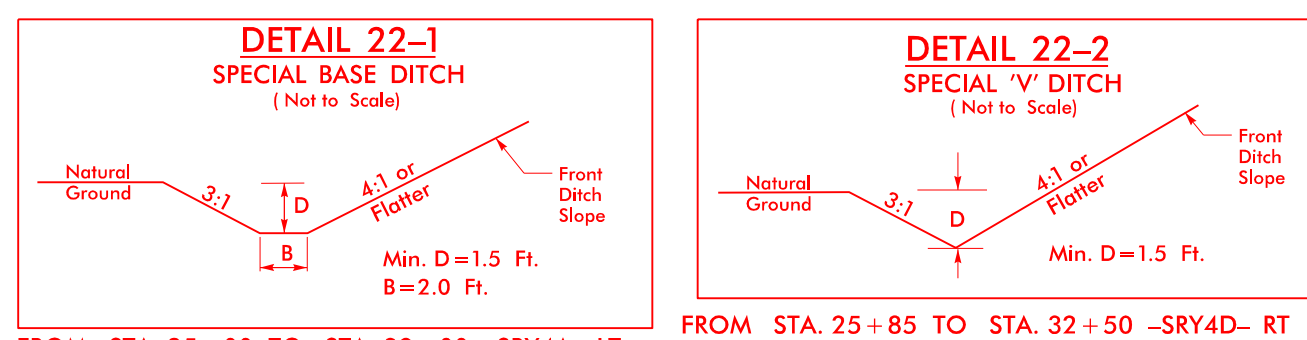
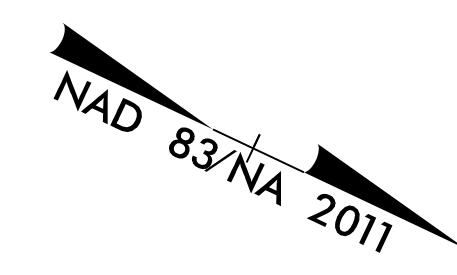
BARNHILL CONTRACTING COMPANY

stv
Stallour Beatty

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

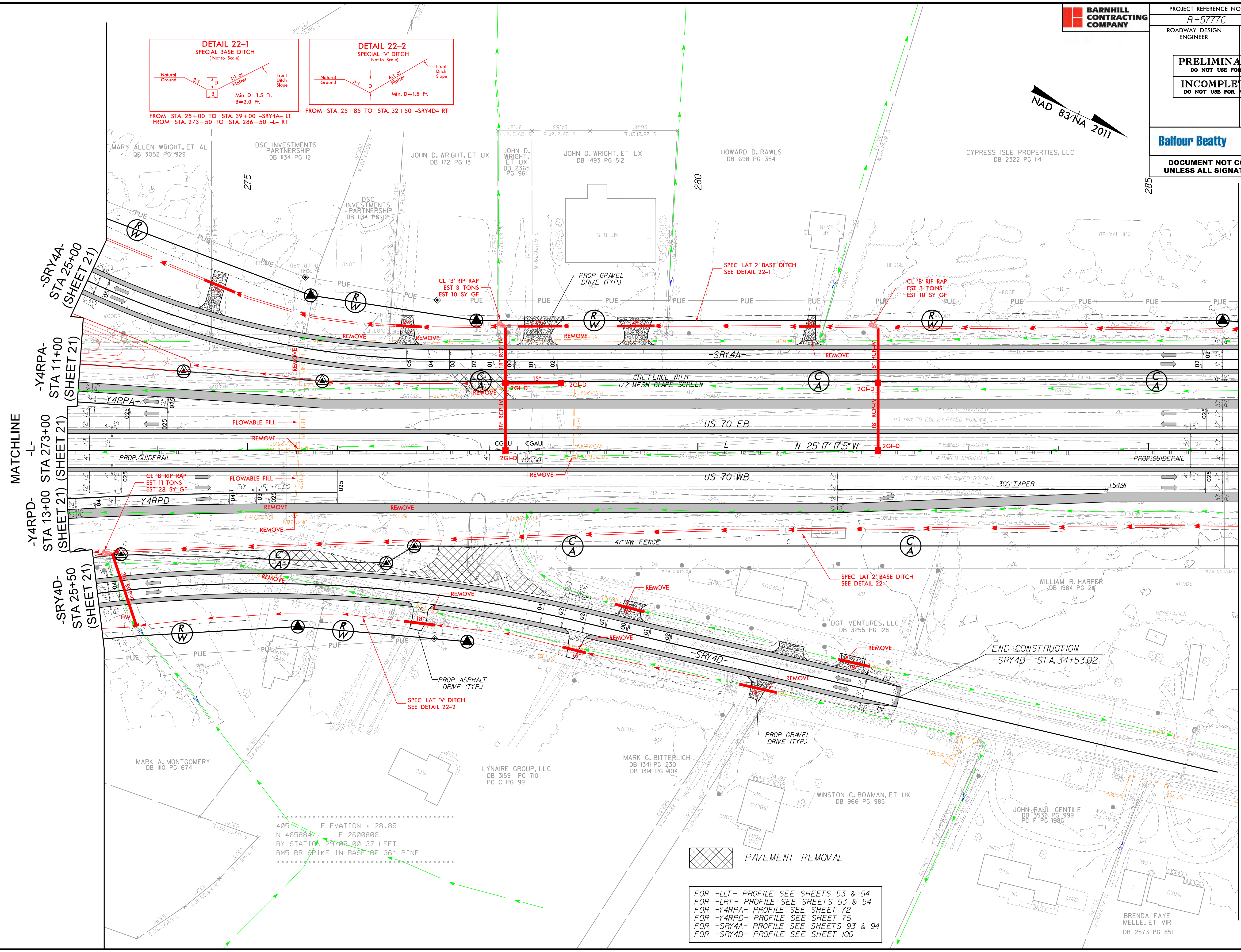
LOCATION: -Y4- (CAMP KIRO ROAD) / -L-

TP NO. R-5777C COUNTY: CRAVEN
DESIGNED BY: BB DATE: 3/31/23
CHECKED BY: ACA DATE: 3/31/23



FROM STA. 25+00 TO STA. 39+00 -SRY4A- LT
 FROM STA. 273+50 TO STA. 286+50 -L- RT

FROM STA. 25+85 TO STA. 32+50 -SRY4D- RT



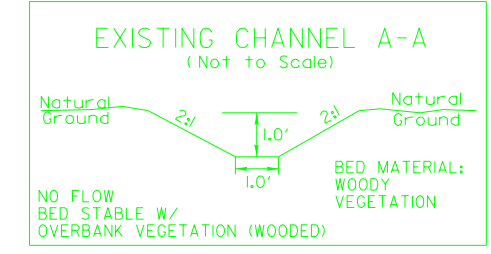
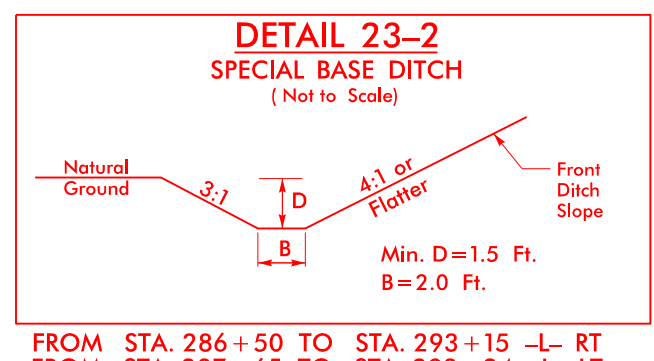
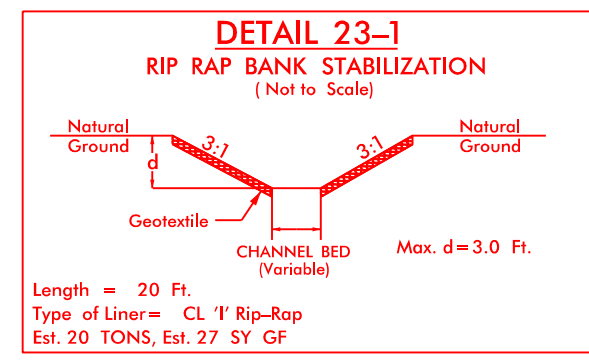
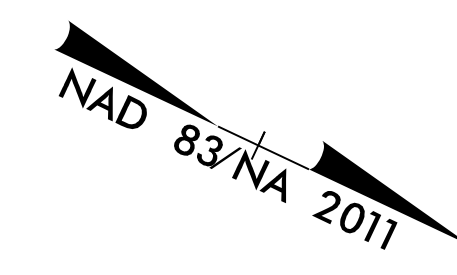
MATCHLINE

MATCHLINE -SRY4A- STA 37+90 (SHEET 23)
 -L- STA 286+00 (SHEET 23)

PAVEMENT REMOVAL

FOR -LL- PROFILE SEE SHEETS 53 & 54
 FOR -LRT- PROFILE SEE SHEETS 53 & 54
 FOR -Y4RPA- PROFILE SEE SHEET 72
 FOR -Y4RPD- PROFILE SEE SHEET 75
 FOR -SRY4A- PROFILE SEE SHEETS 93 & 94
 FOR -SRY4D- PROFILE SEE SHEET 100

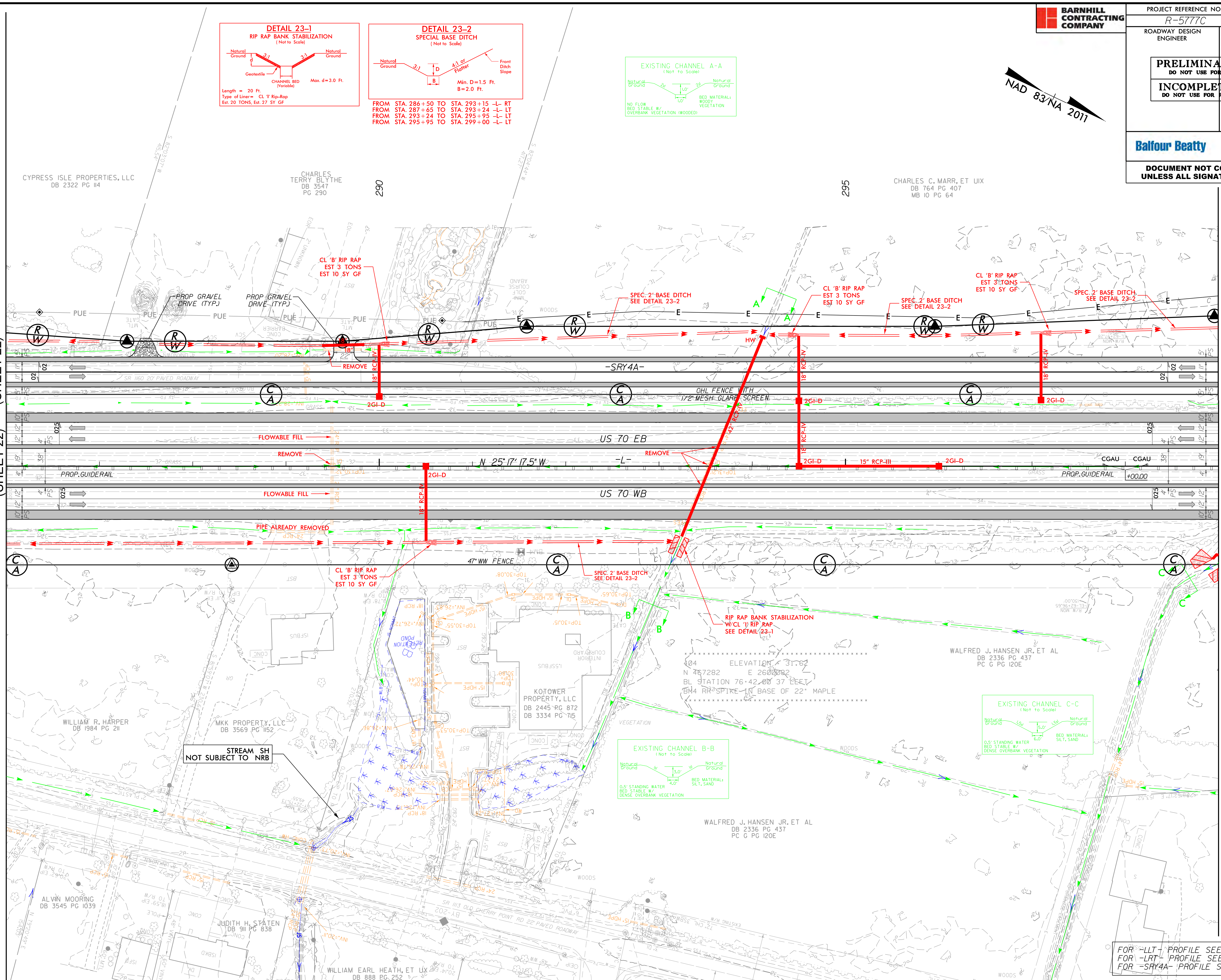
405 ELEVATION = 28.85
 N 465884 E 2600806
 BY STATION 29+05.00 37 LEFT
 BMS RR SPIKE IN BASE OF 36' PINE



FROM STA. 286+50 TO STA. 293+15 -L- RT
FROM STA. 287+65 TO STA. 293+24 -L- LT
FROM STA. 293+24 TO STA. 295+95 -L- LT
FROM STA. 295+95 TO STA. 299+00 -L- LT

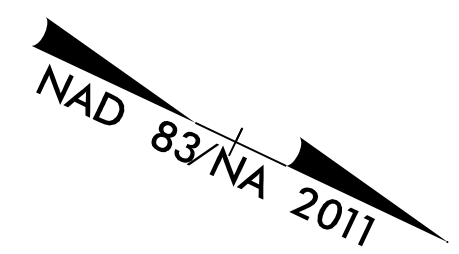
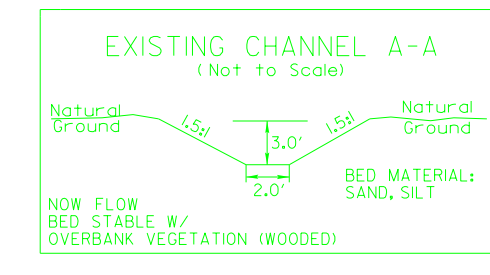
MATCHLINE -SRY4A-
L- STA 286+00 (SHEET 22)

MATCHLINE -SRY4A-
L- STA 299+00 (SHEET 24)

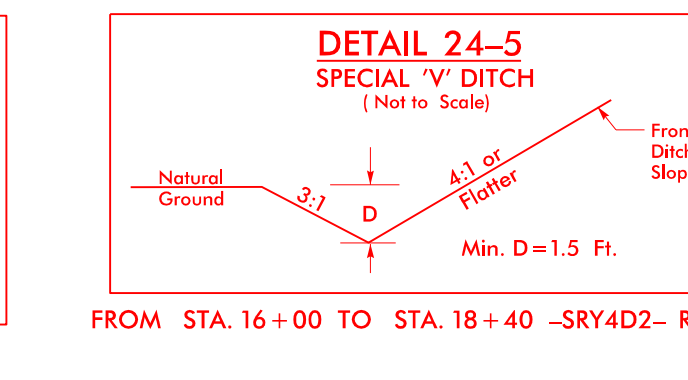
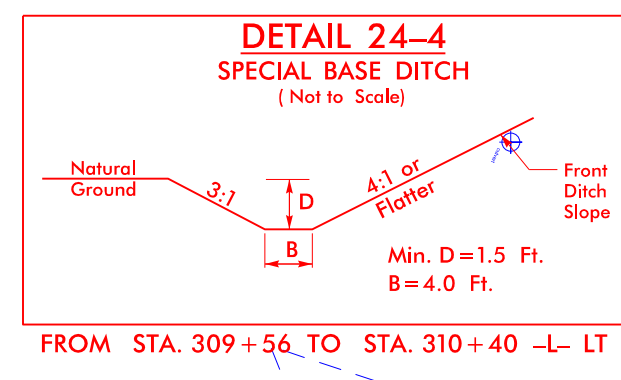
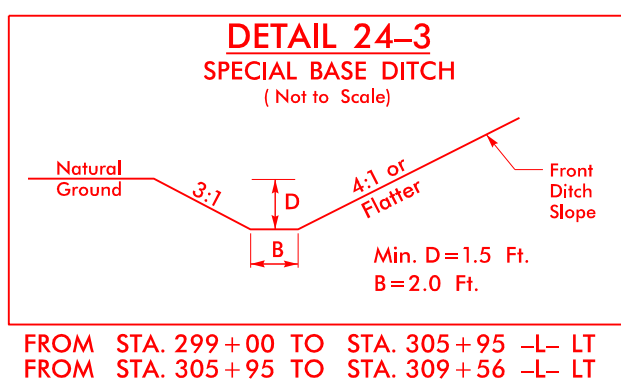
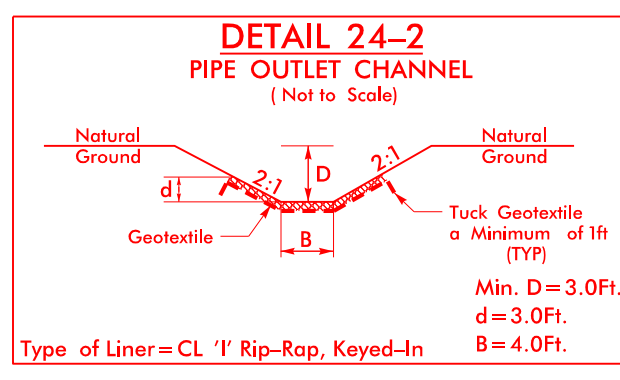
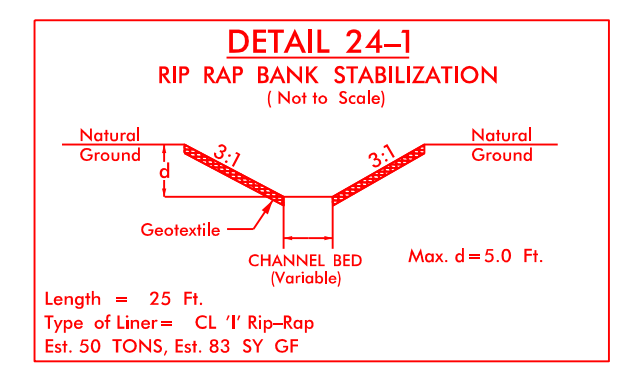
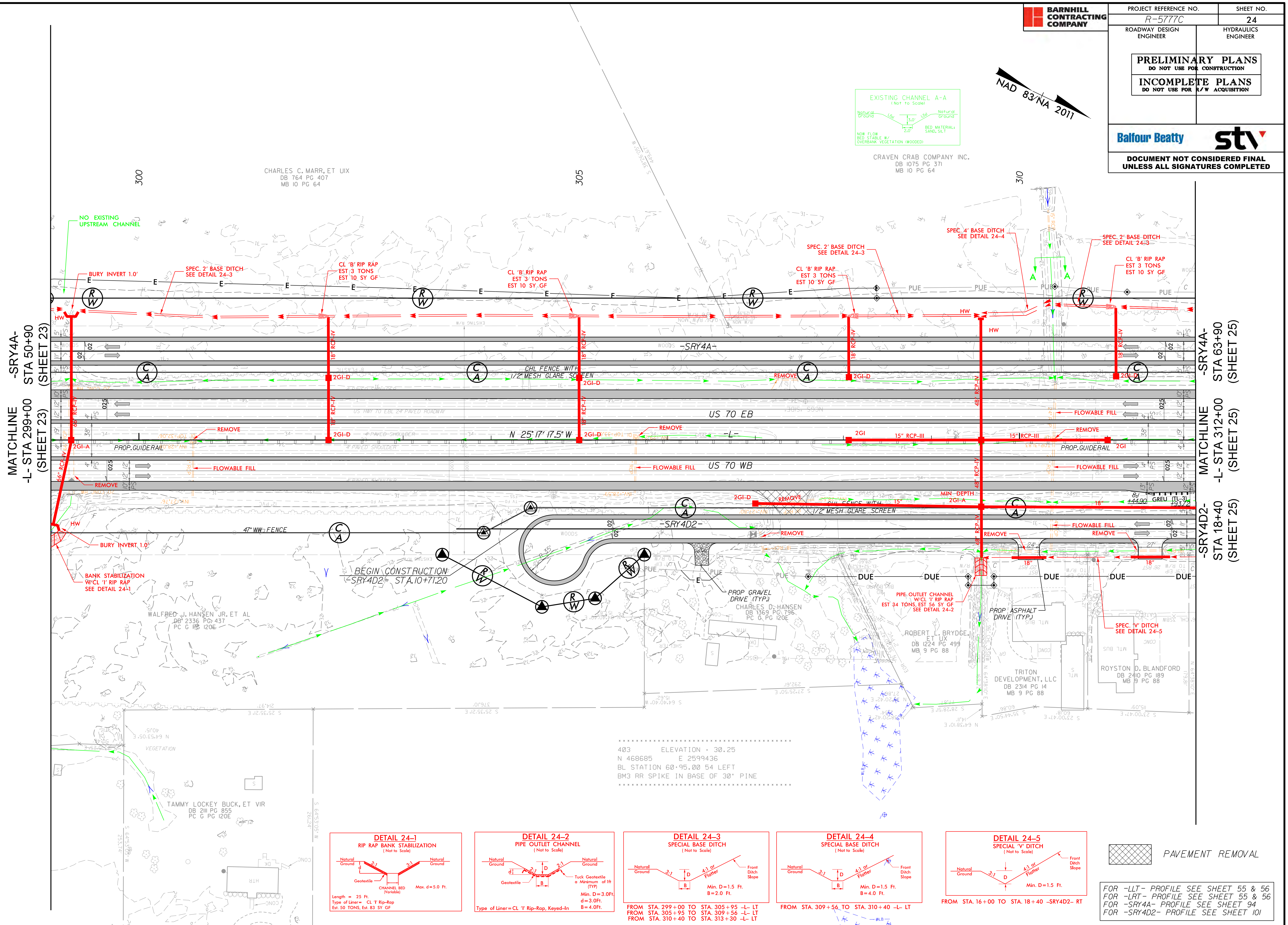


STREAM SH NOT SUBJECT TO NRB

FOR -LLT- PROFILE SEE SHEETS 54 & 55
FOR -LRT- PROFILE SEE SHEETS 54 & 55
FOR -SRY4A- PROFILE SEE SHEET 94



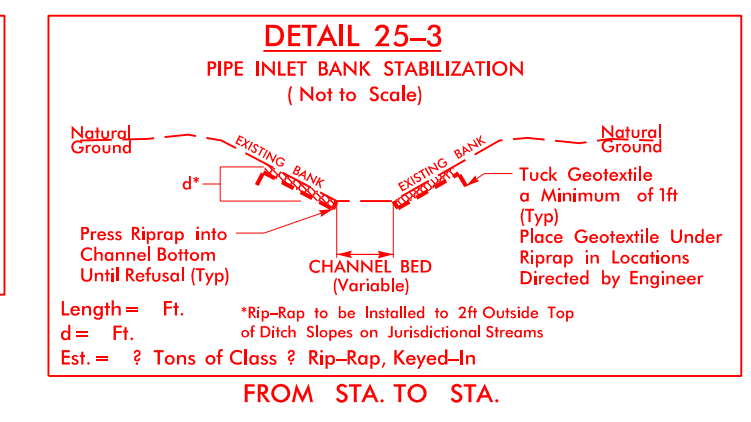
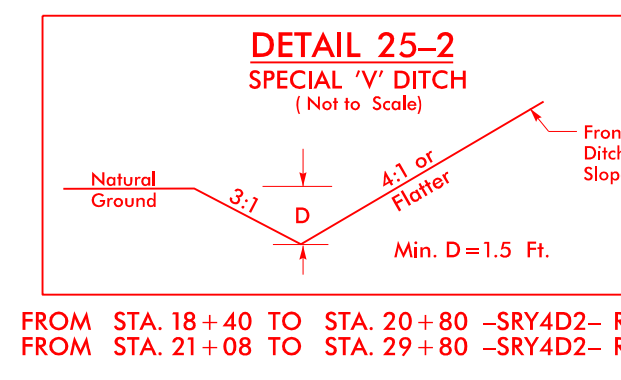
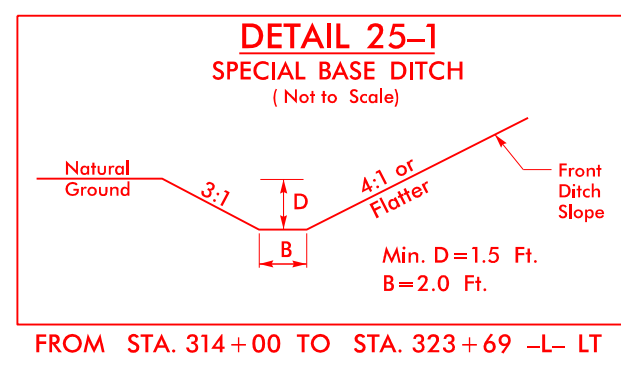
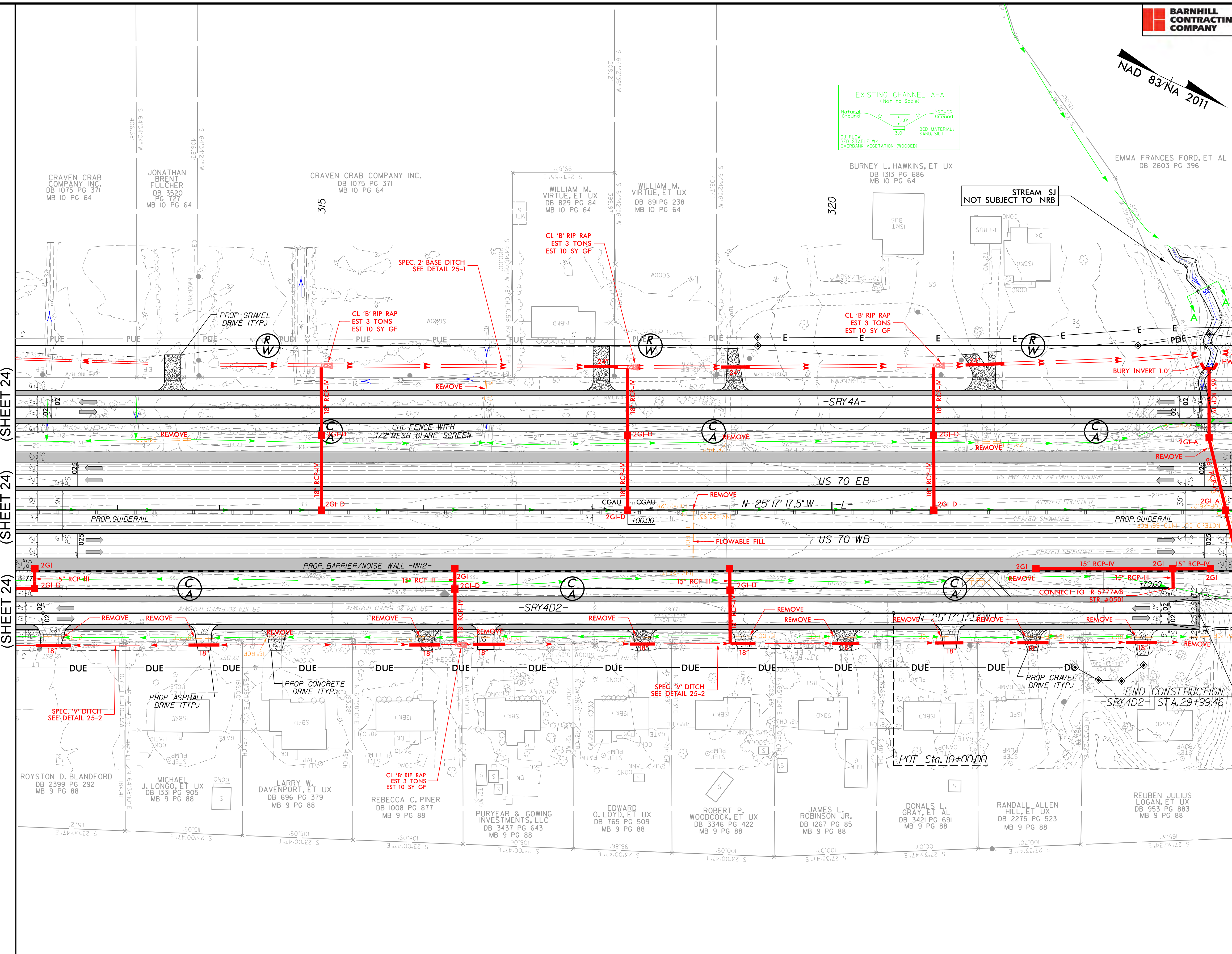
CRAVEN CRAB COMPANY INC.
DB 1075 PG 371
MB 10 PG 64



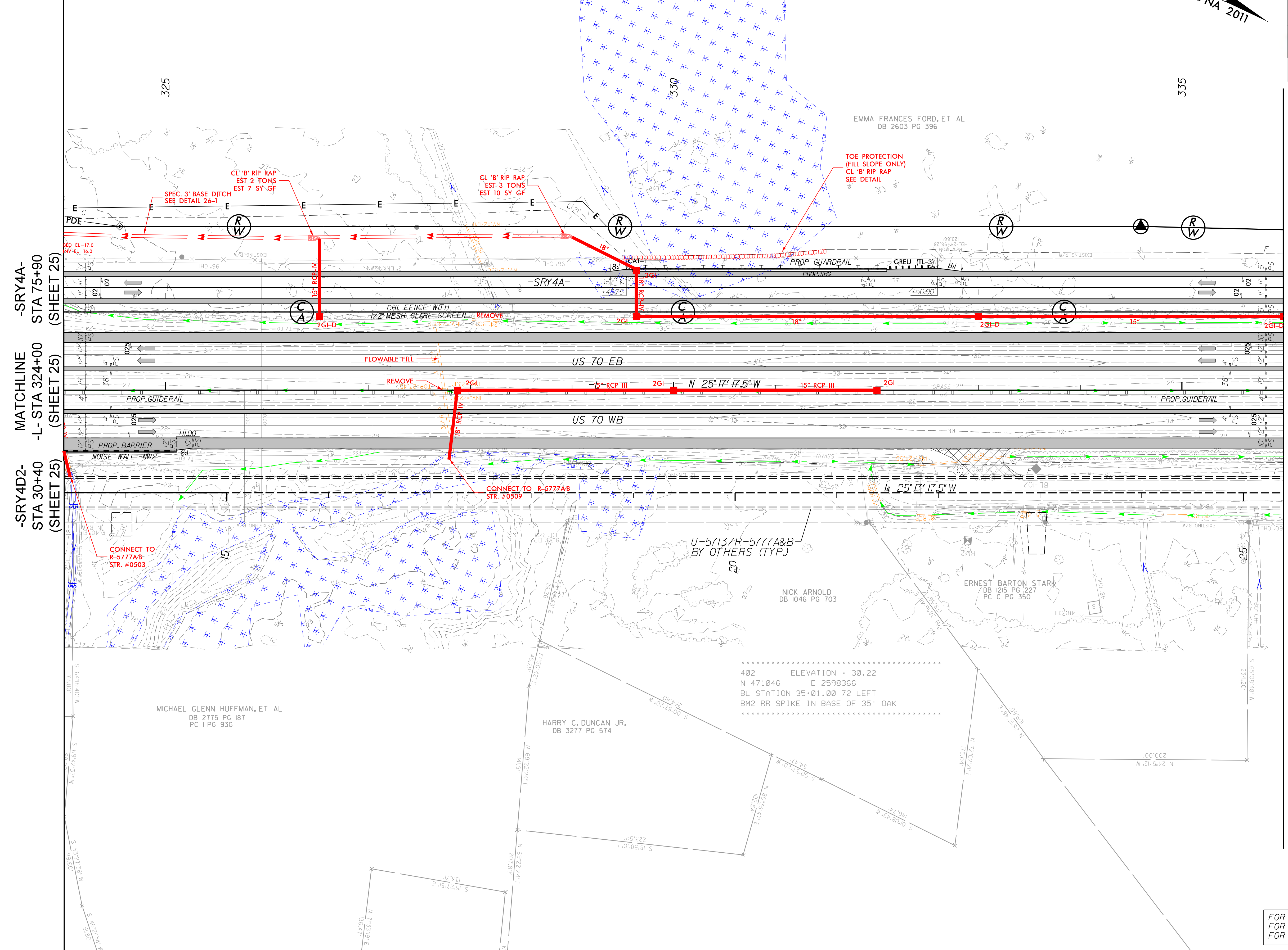
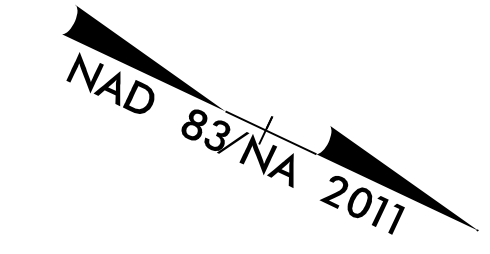
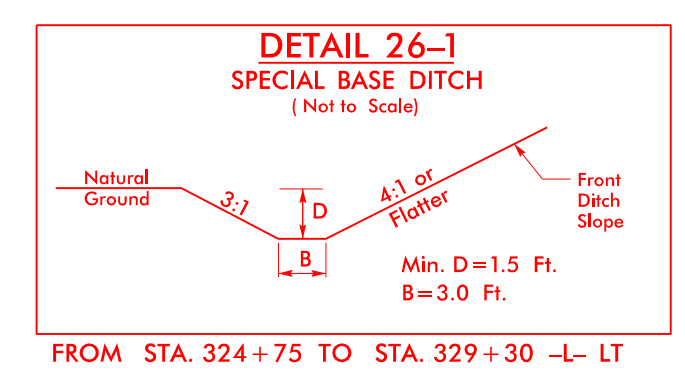
PAVEMENT REMOVAL

FOR -L-T- PROFILE SEE SHEET 55 & 56
FOR -L-R- PROFILE SEE SHEET 55 & 56
FOR -SRY4A- PROFILE SEE SHEET 94
FOR -SRY4D2- PROFILE SEE SHEET 101

R-5777C-Hyd_PSH_24.dgn



FOR -LLT- PROFILE SEE SHEETS 56 & 57
FOR -LRT- PROFILE SEE SHEETS 56 & 57
FOR -SRY4A- PROFILE SEE SHEETS 94 & 95
FOR -SRY4D2- PROFILE SEE SHEET 101



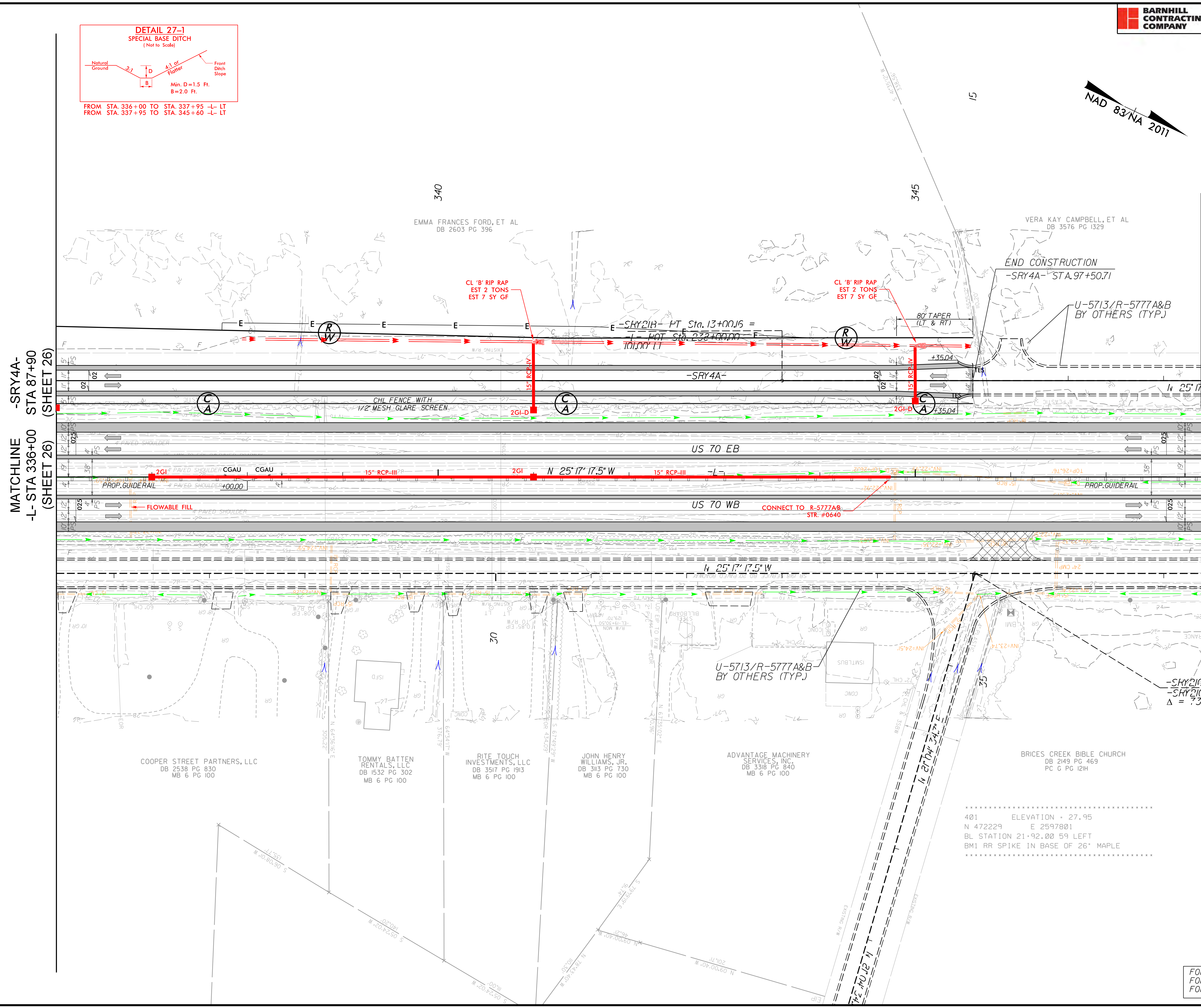
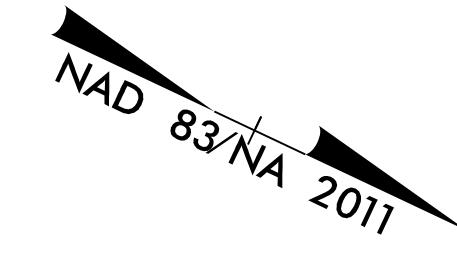
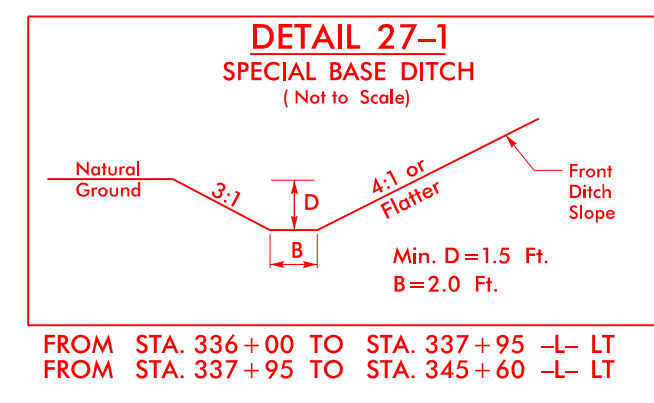
-SRY4A- STA 75+90 (SHEET 25)
 MATCHLINE -L- STA 324+00 (SHEET 25)
 -SRY4D2- STA 30+40 (SHEET 25)

-SRY4A- STA 87+90 (SHEET 27)
 MATCHLINE -L- STA 336+00 (SHEET 27)

6/21/2023
 R-5777C-Hyd_PSH_26.dgn
 BAA



FOR -LLT- PROFILE SEE SHEETS 57 & 58
 FOR -LRT- PROFILE SEE SHEETS 57 & 58
 FOR -SRY4A- PROFILE SEE SHEET 95



MATCHLINE -SRY4A- STA 87+90 (SHEET 26)
-L- STA 336+00 (SHEET 26)

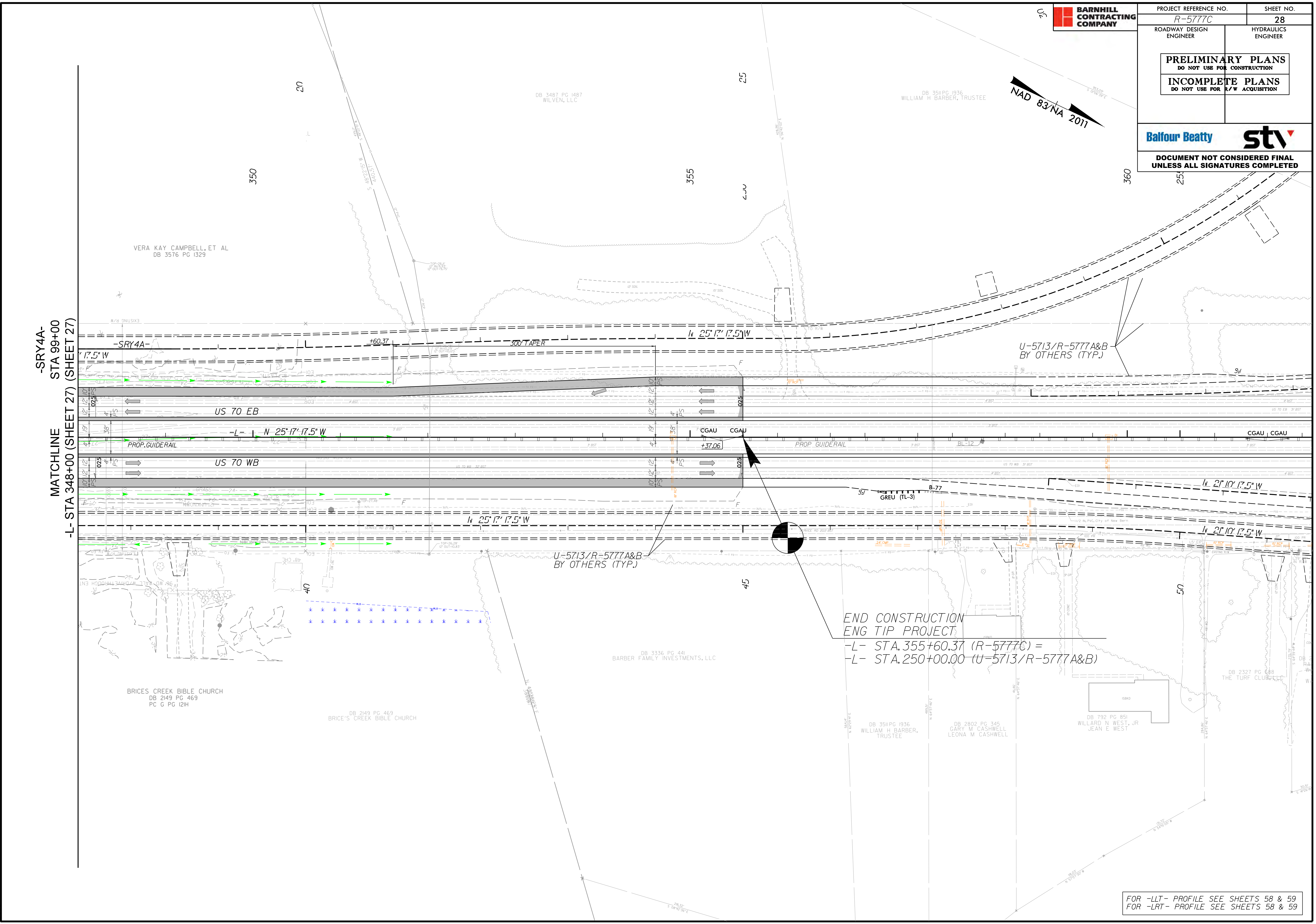
MATCHLINE -SRY4A- STA 99+90 (SHEET 28)
-L- STA 348+00 (SHEET 28)

6/21/2023
R-5777C-Hyd_PSH_27.dgn



FOR -LLT- PROFILE SEE SHEET 57
FOR -LRT- PROFILE SEE SHEET 57
FOR -SRY4A- PROFILE SEE SHEETS 95 & 96

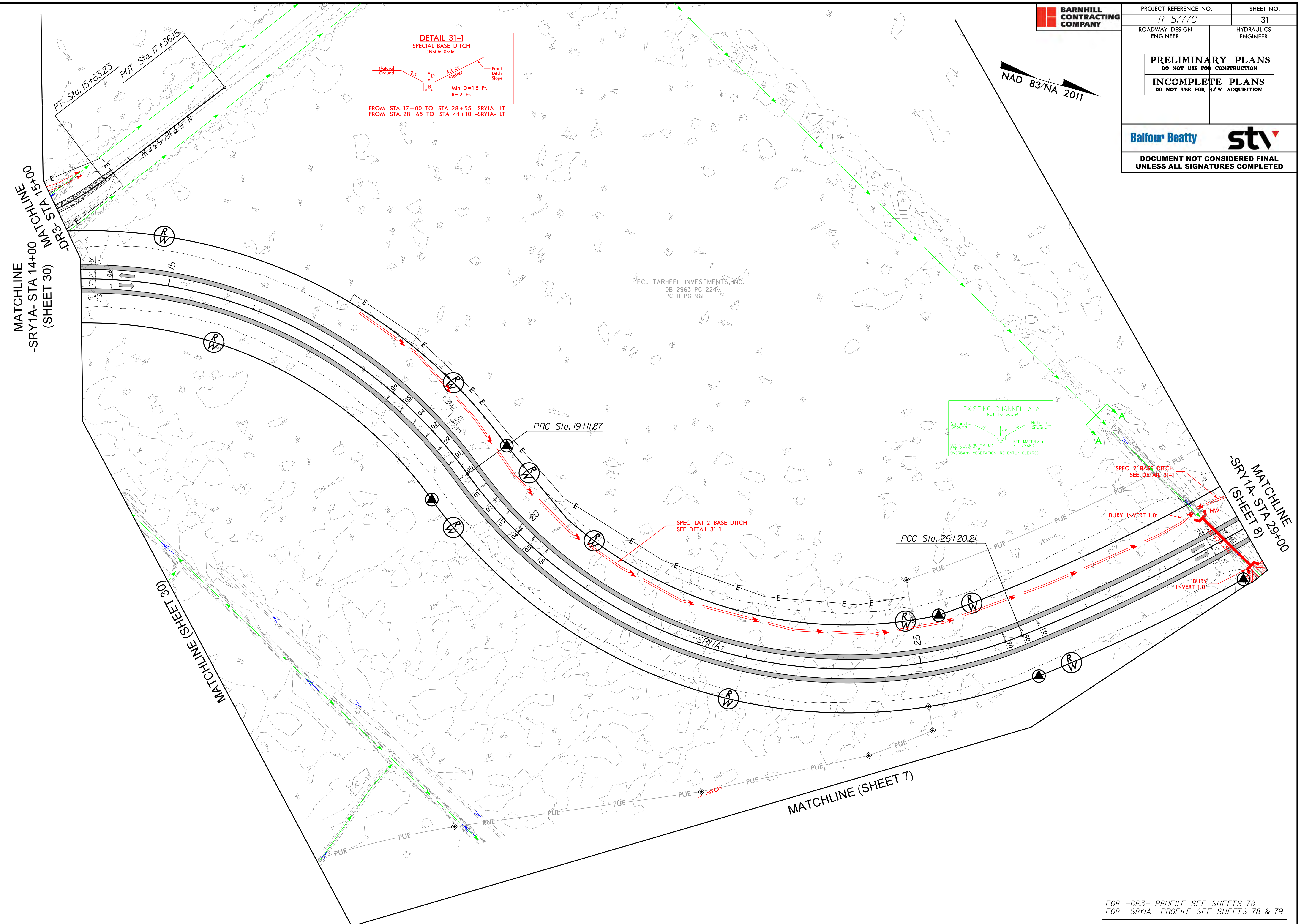
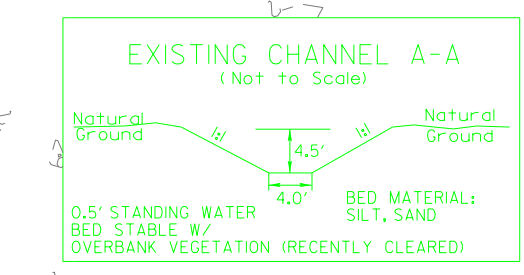
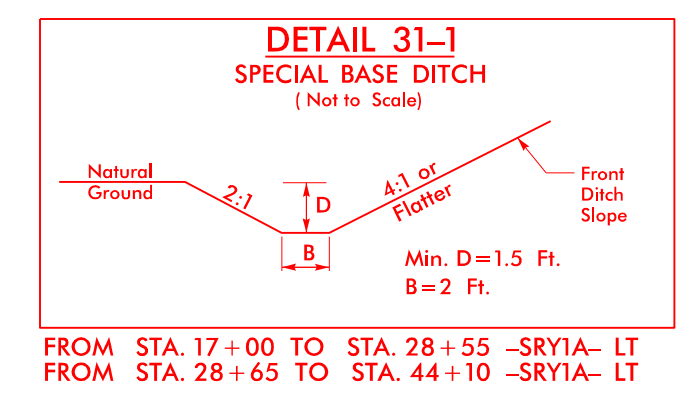
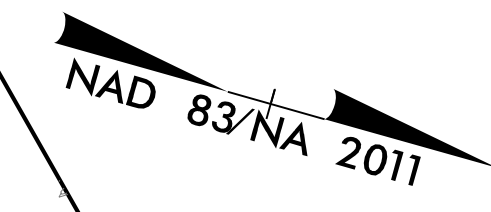
PROJECT REFERENCE NO. R-5777C		SHEET NO. 28	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION			
INCOMPLETE PLANS DO NOT USE FOR A/W ACQUISITION			
Balfour Beatty		stv	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			



END CONSTRUCTION
 ENG TIP PROJECT
 -L- STA. 355+60.37 (R-5777C) =
 -L- STA. 250+00.00 (U-5713/R-5777A&B)

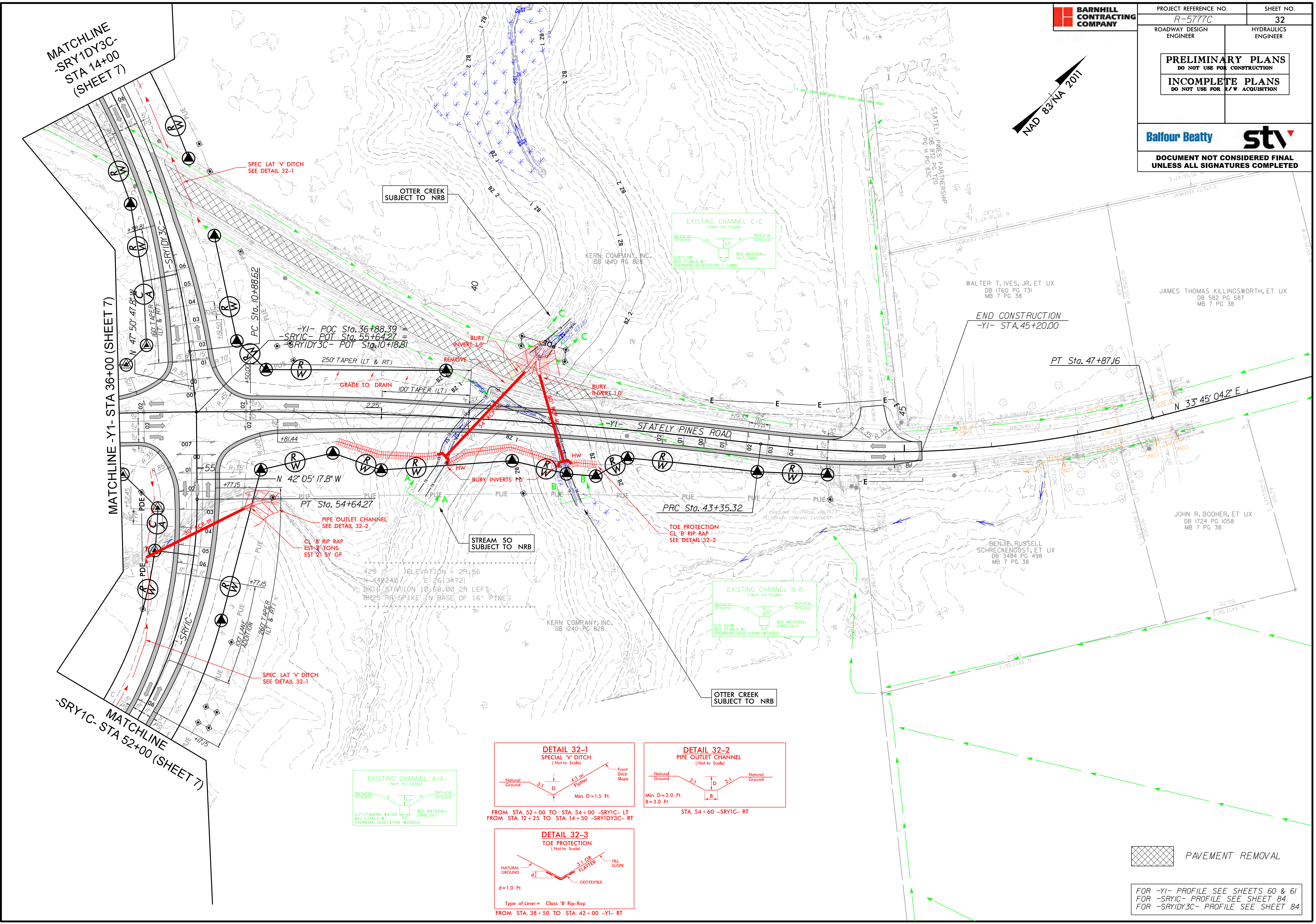
FOR -LLT- PROFILE SEE SHEETS 58 & 59
 FOR -LRT- PROFILE SEE SHEETS 58 & 59

6/21/2023
 R-5777C-Hyd_PSH_28.dgn
 BSA



6/21/2023
R-5777C-Hydr_PSH_31.dgn
BAA

FOR -DR3- PROFILE SEE SHEETS 78
FOR -SRY1A- PROFILE SEE SHEETS 78 & 79



MATCHLINE -SRYDY3C- STA 14+00 (SHEET 7)

MATCHLINE -Y1- STA 36+00 (SHEET 7)

MATCHLINE -SRY1C- STA 52+00 (SHEET 7)

OTTER CREEK SUBJECT TO NRB

EXISTING CHANNEL C-C
(Not to Scale)
Natural Ground
Natural Ground
0.5' FLOW
BED STABLE W/ OVERBANK VEGETATION / LAWN
BED MATERIAL: SILT, SAND

WALTER T. IVES, JR. ET UX
DB 1760 PG 731
MB 7 PG 38

JAMES THOMAS KILLINGSWORTH, ET UX
DB 582 PG 587
MB 7 PG 38

END CONSTRUCTION -Y1- STA. 45+20.00

PT Sta. 47+87.16

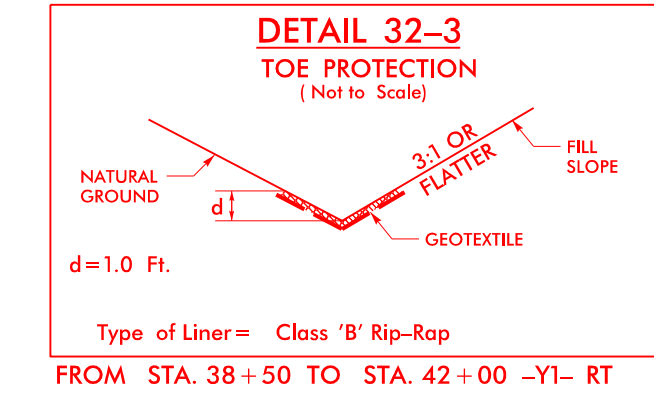
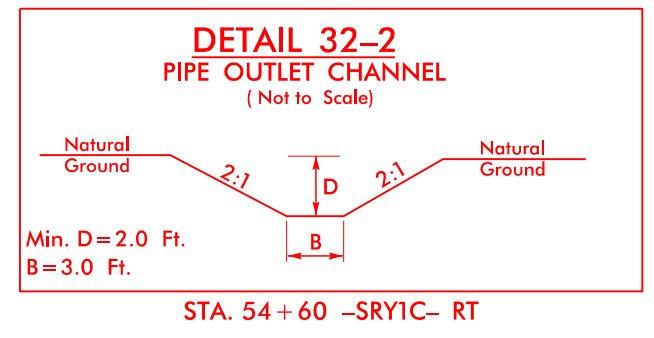
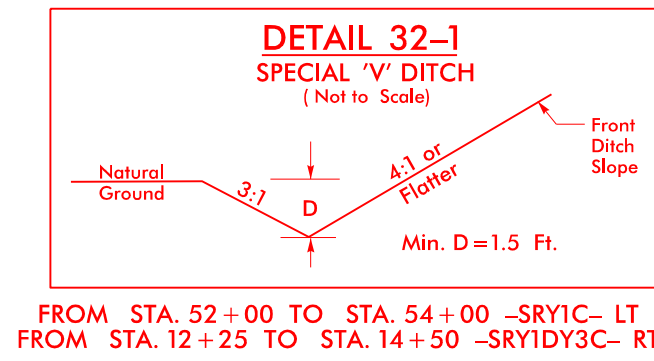
JOHN R. BOOHER, ET UX
DB 1724 PG 1058
MB 7 PG 38

BENJIE RUSSELL SCHRECKENGOST, ET UX
DB 3484 PG 498
MB 7 PG 38

STREAM SO SUBJECT TO NRB

OTTER CREEK SUBJECT TO NRB

EXISTING CHANNEL A-A
(Not to Scale)
Natural Ground
Natural Ground
0.5' STANDING WATER
BED STABLE W/ OVERBANK VEGETATION (WOODED)
BED MATERIAL: SAND, SILT



PAVEMENT REMOVAL

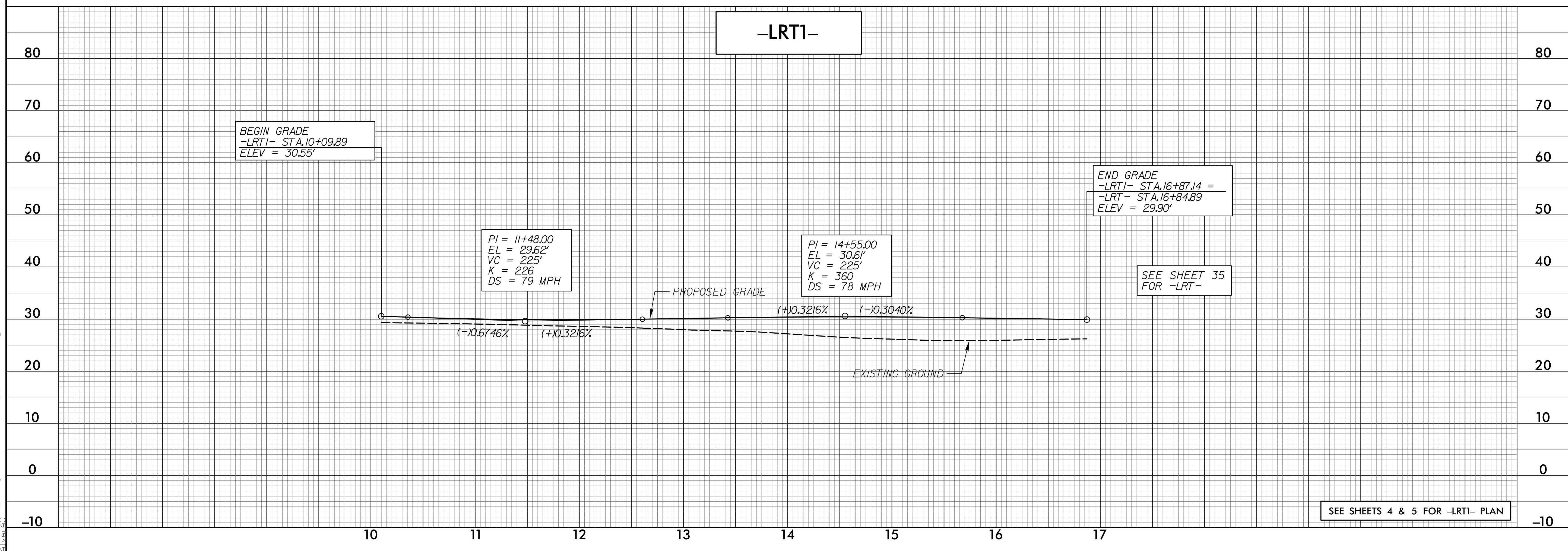
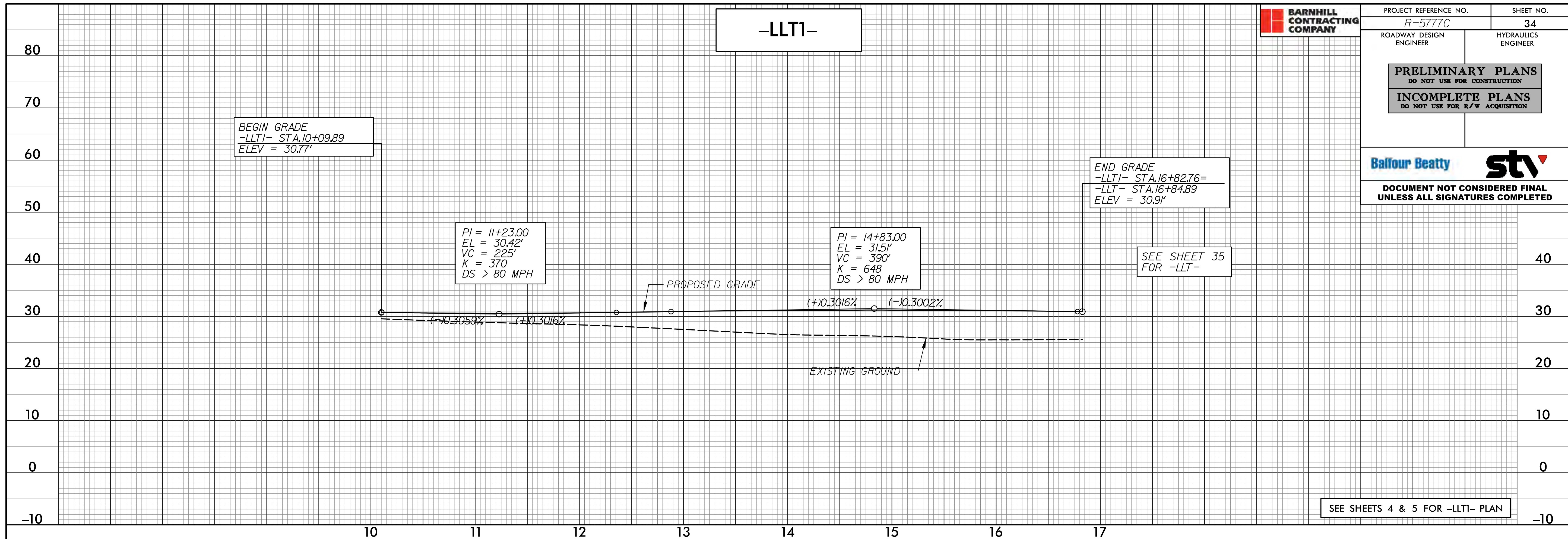
FOR -Y1- PROFILE SEE SHEETS 60 & 61
FOR -SRY1C- PROFILE SEE SHEET 84
FOR -SRYDY3C- PROFILE SEE SHEET 84

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION



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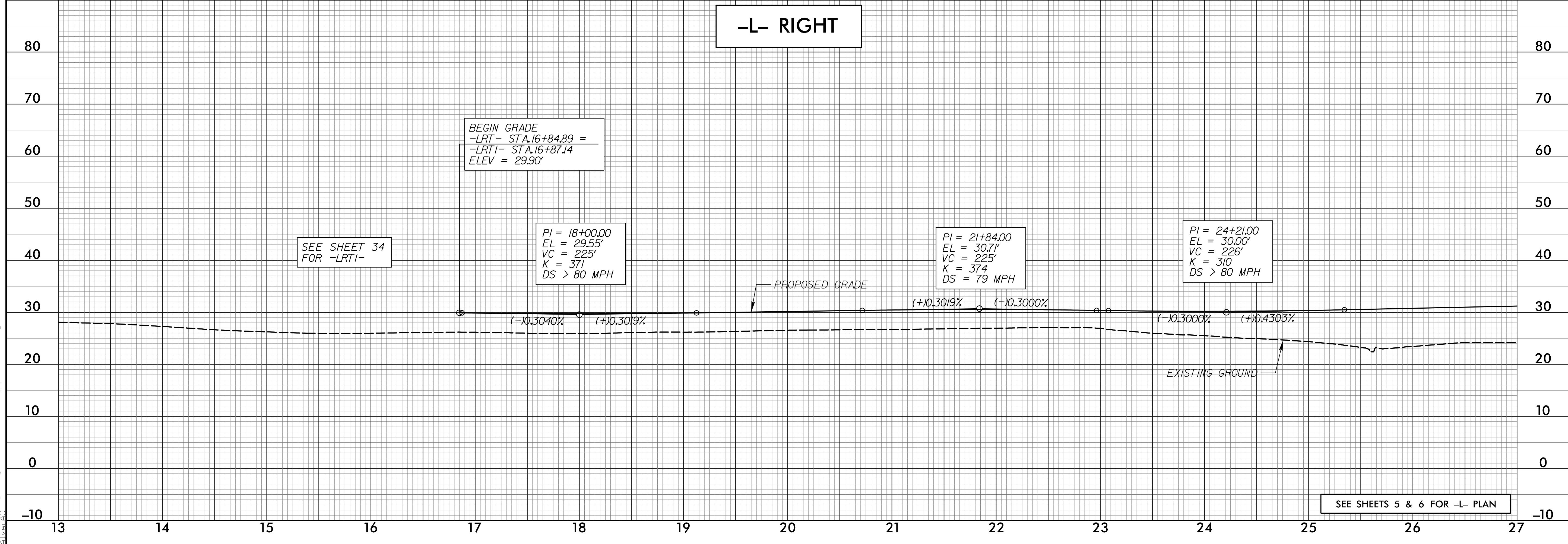
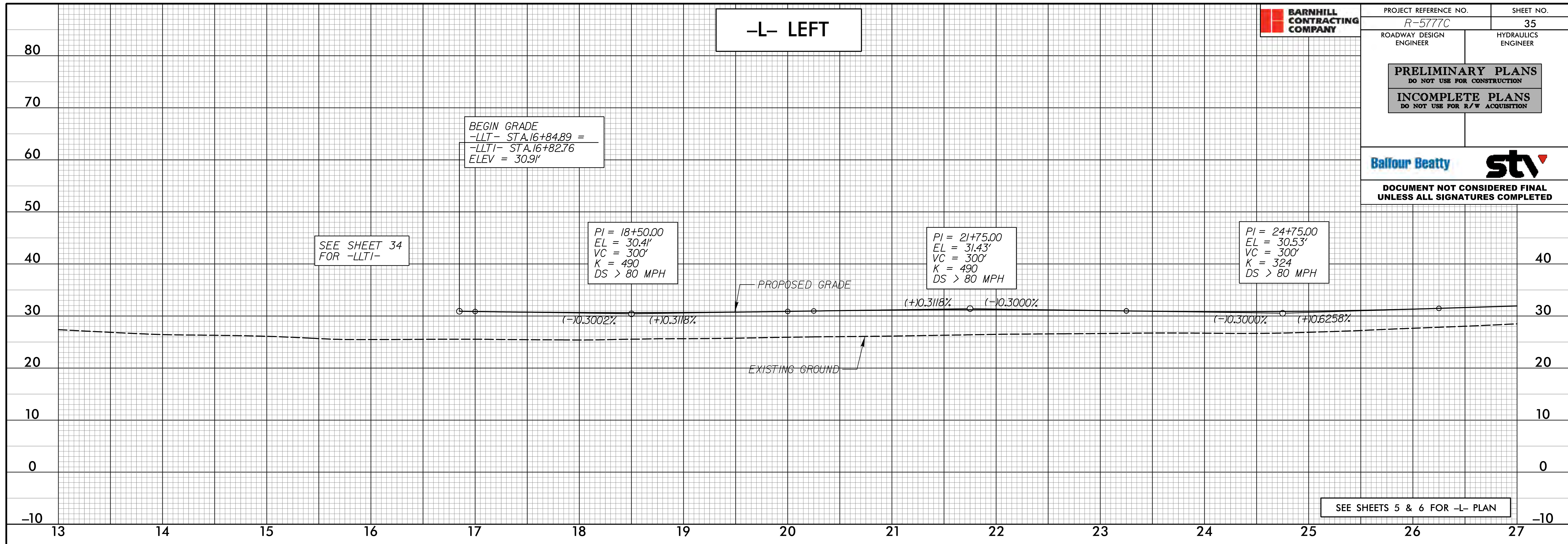
4/12/2023
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PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION



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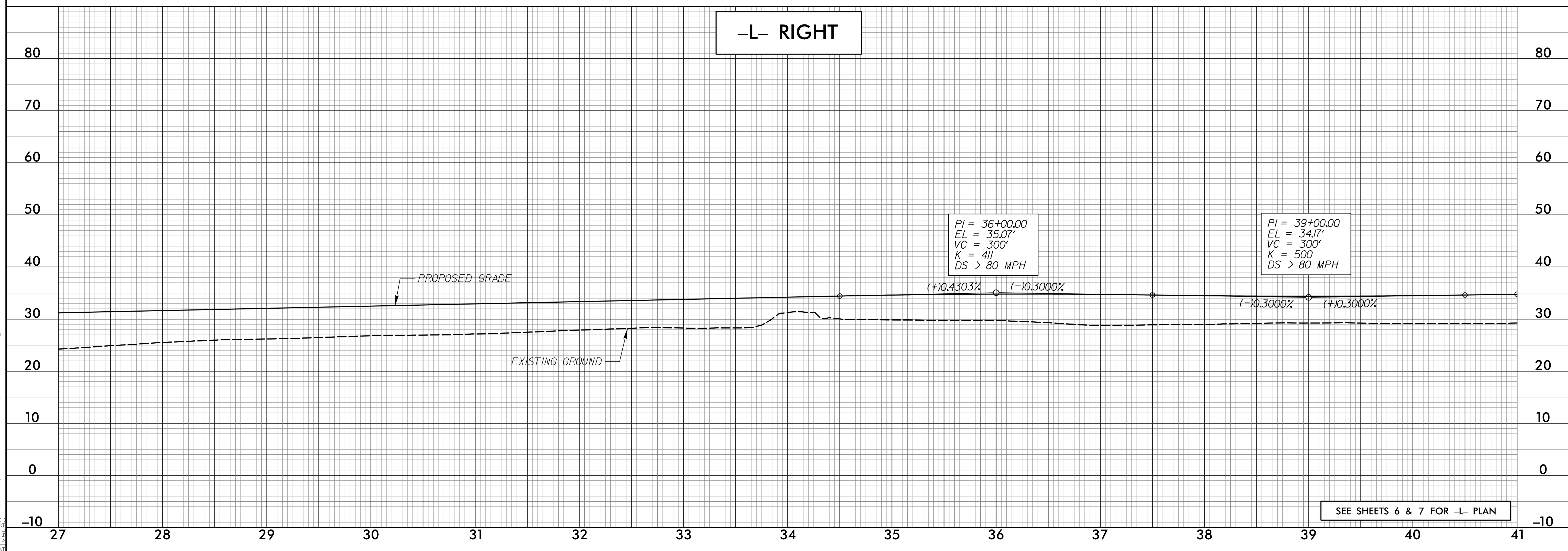
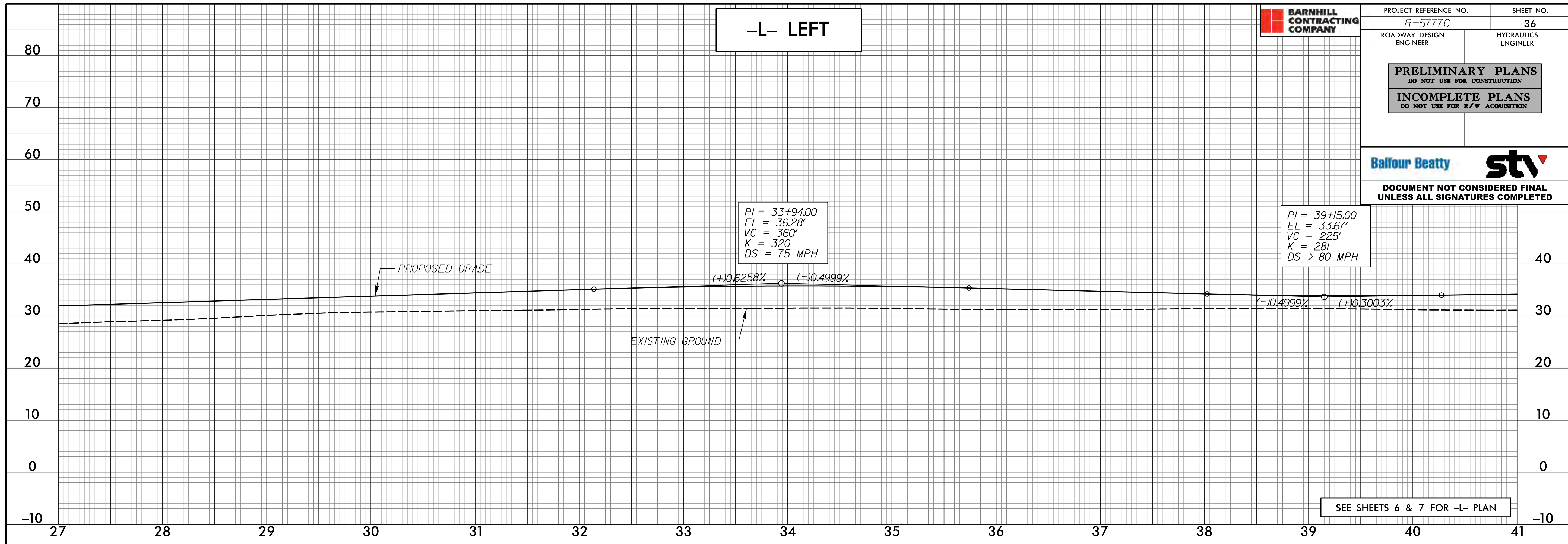
4/12/2023
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PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION



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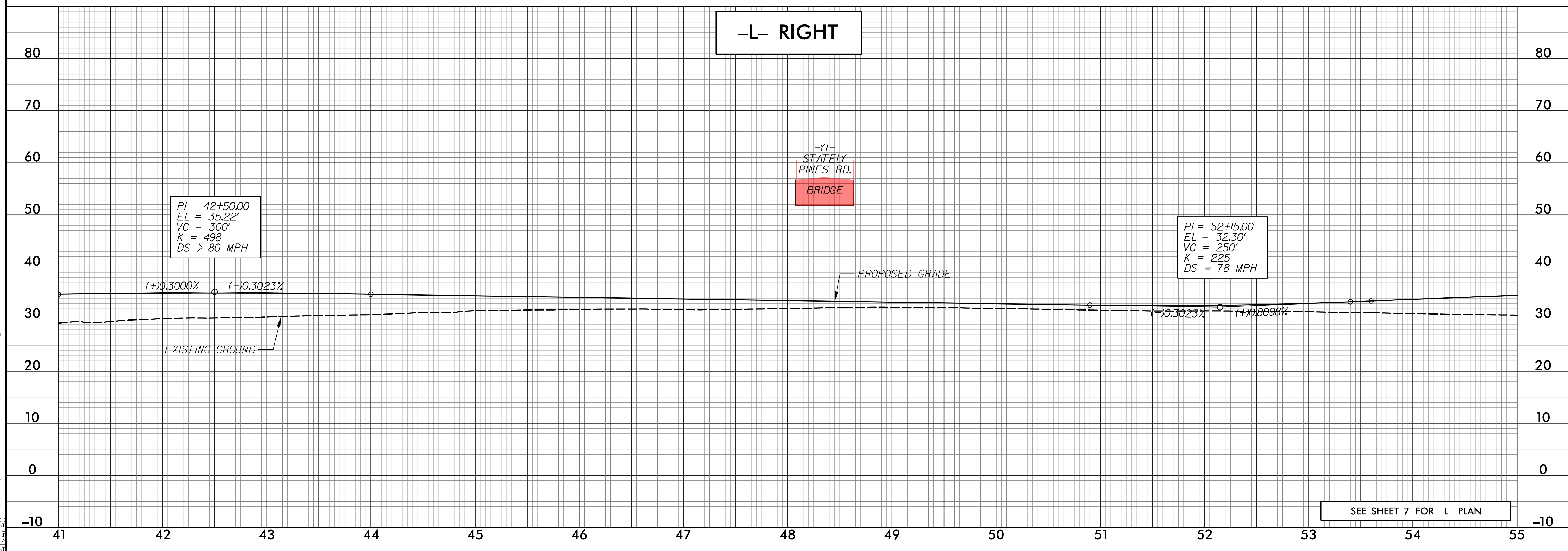
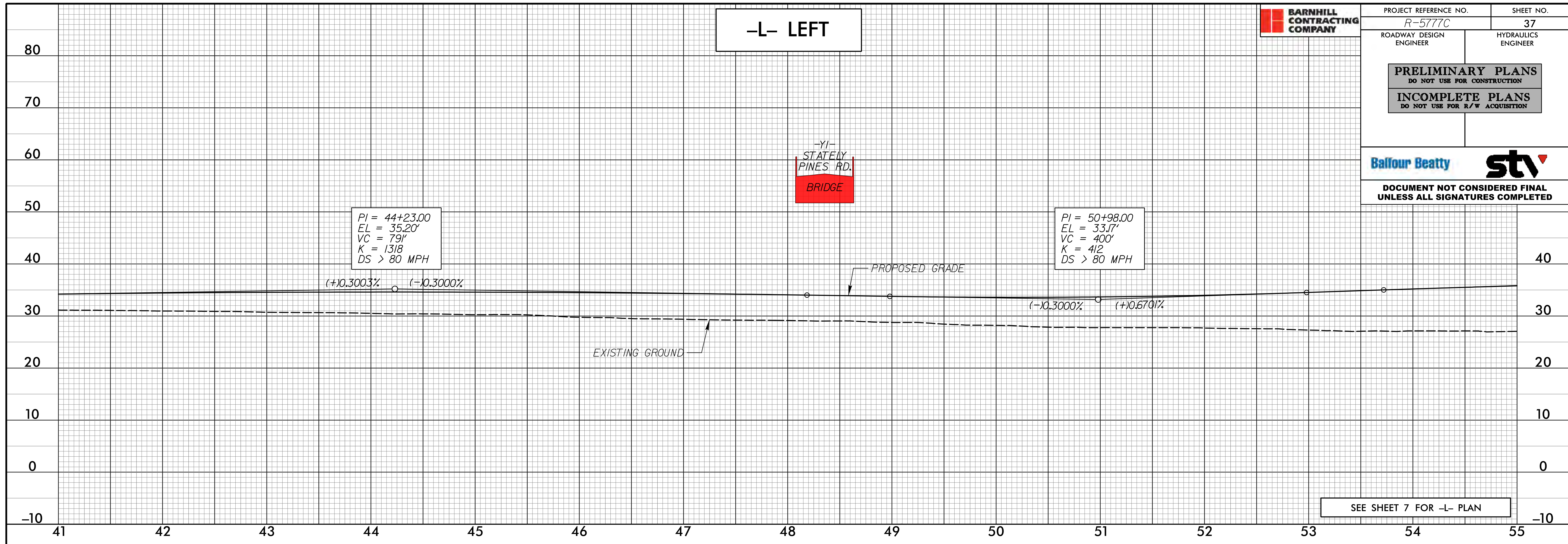
4/12/2023
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PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION



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4/12/2023
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PRELIMINARY PLANS
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INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

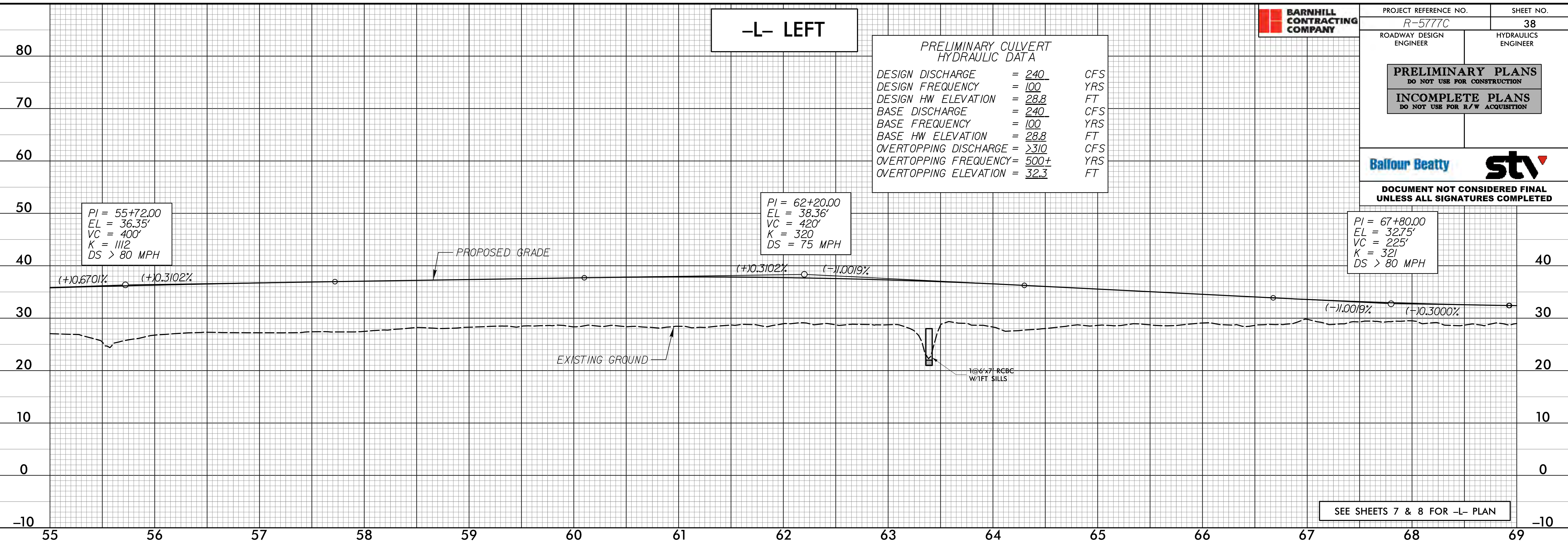


DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

-L- LEFT

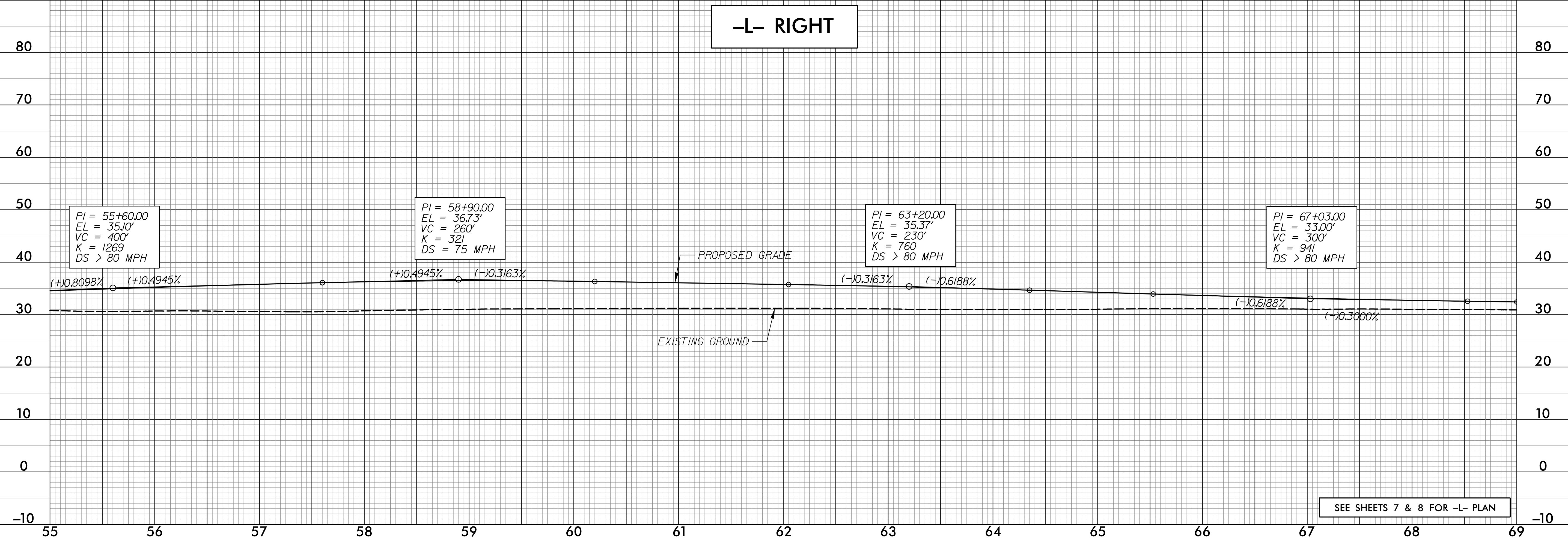
PRELIMINARY CULVERT HYDRAULIC DATA

DESIGN DISCHARGE	= 240	CFS
DESIGN FREQUENCY	= 100	YRS
DESIGN HW ELEVATION	= 28.8	FT
BASE DISCHARGE	= 240	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 28.8	FT
OVERTOPPING DISCHARGE	= >310	CFS
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING ELEVATION	= 32.3	FT



SEE SHEETS 7 & 8 FOR -L- PLAN

-L- RIGHT



SEE SHEETS 7 & 8 FOR -L- PLAN

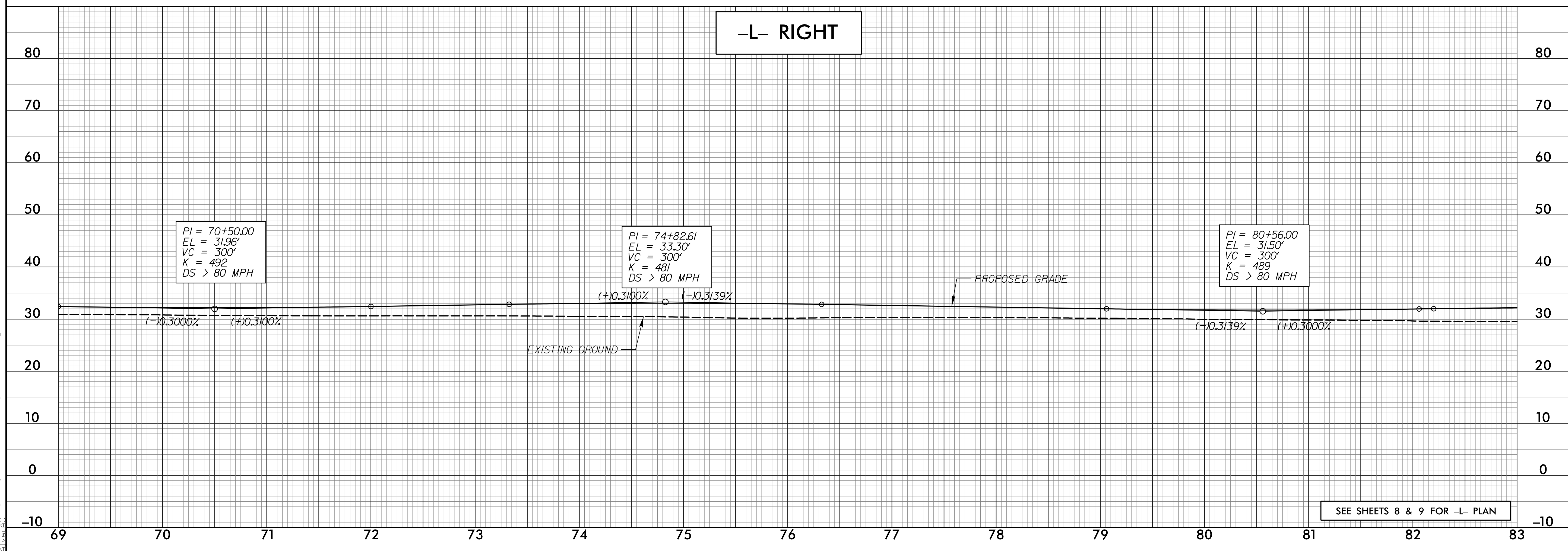
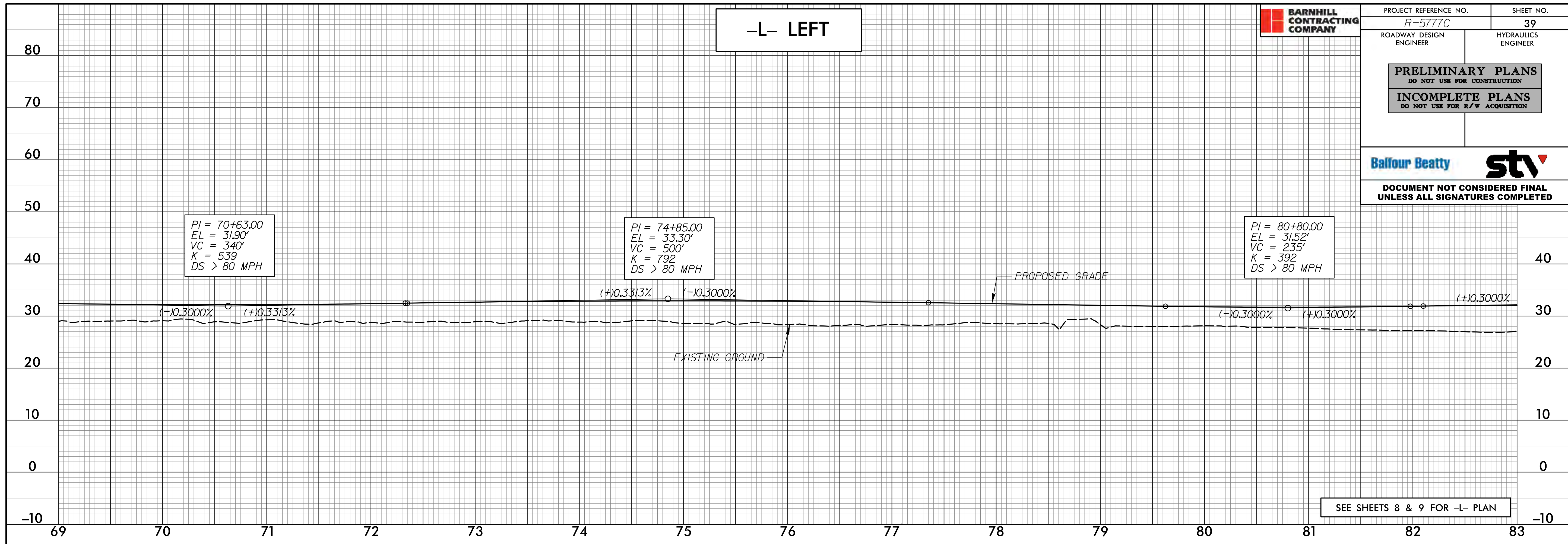
4/12/2023
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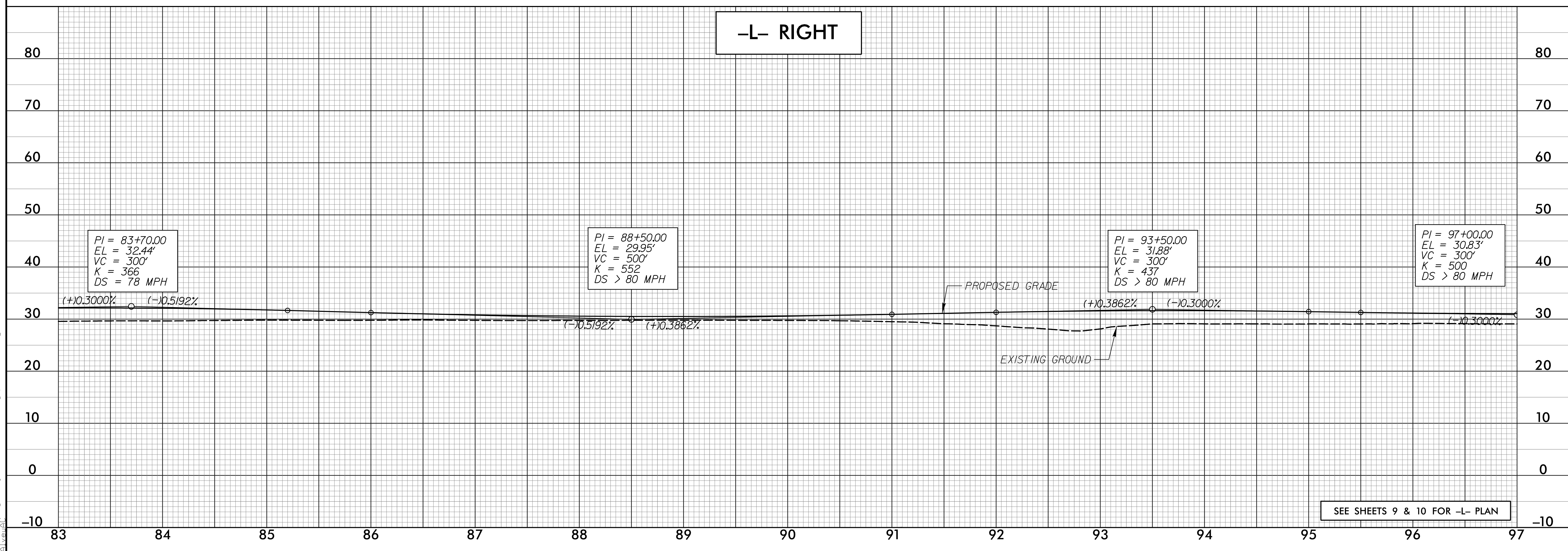
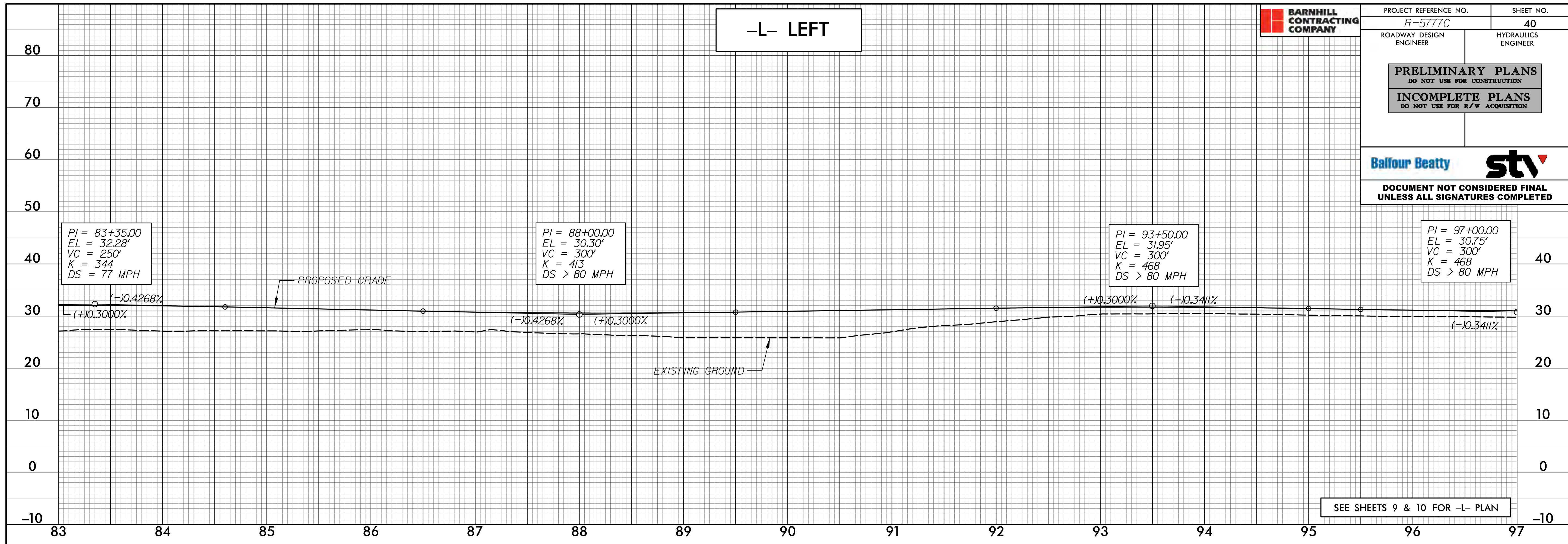
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION



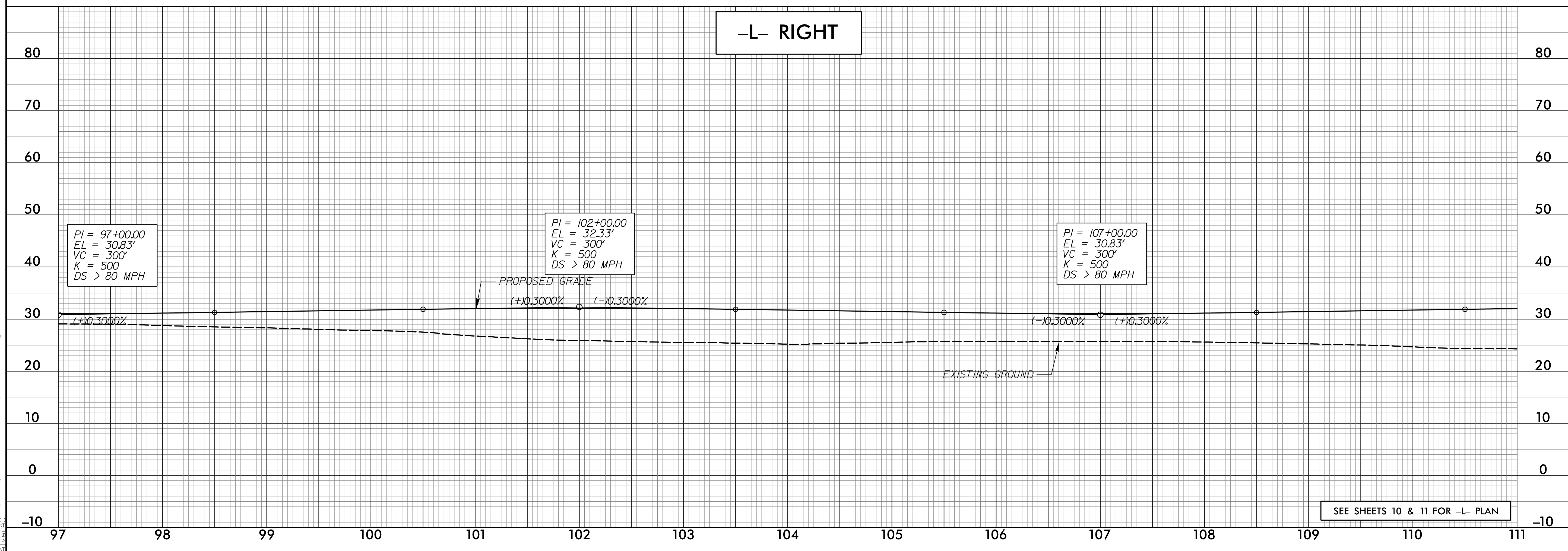
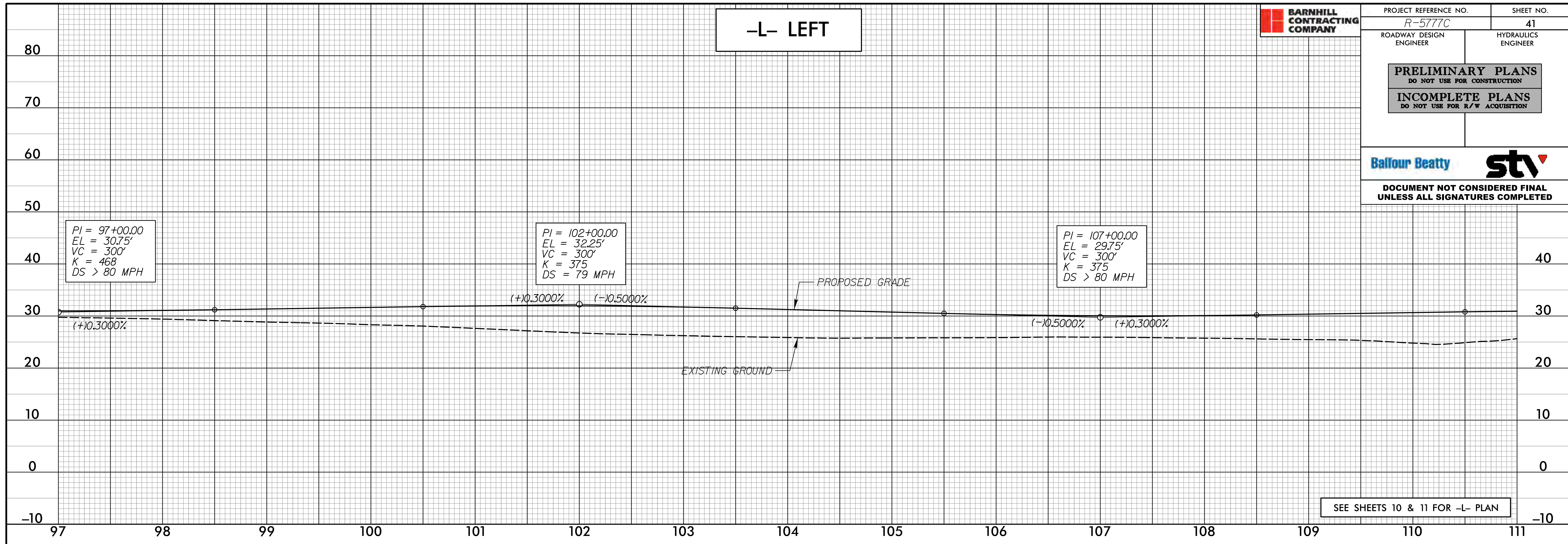
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



4/12/2023
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4/12/2023
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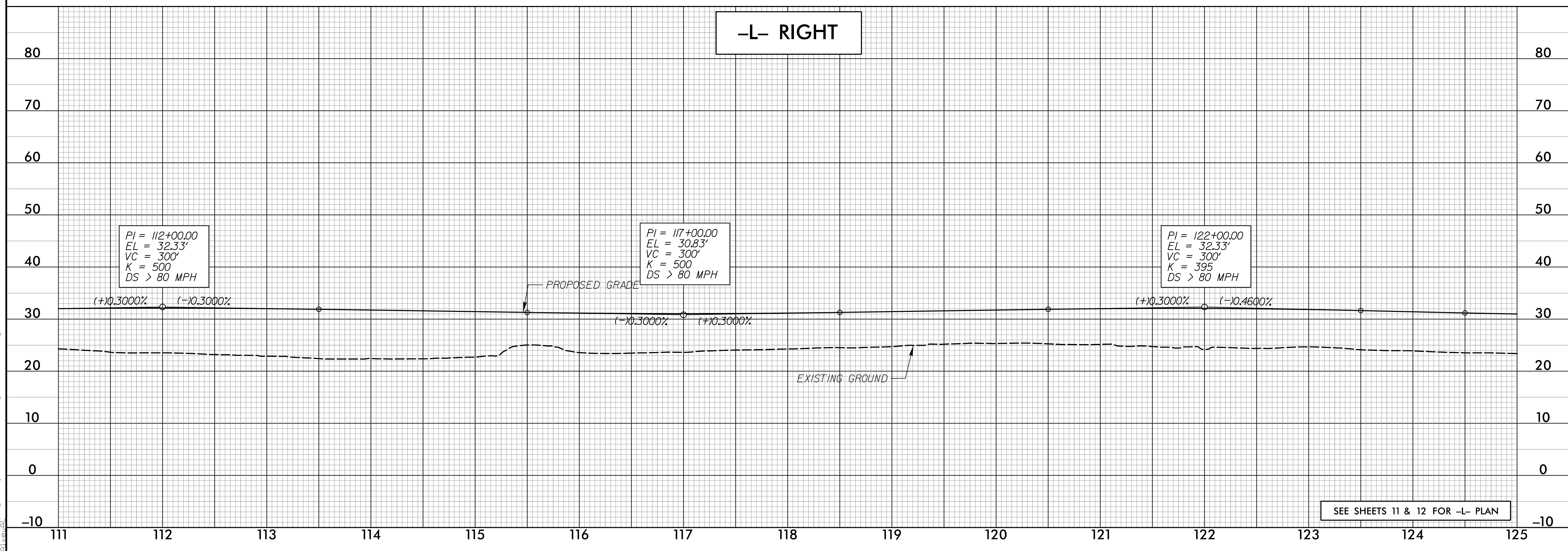
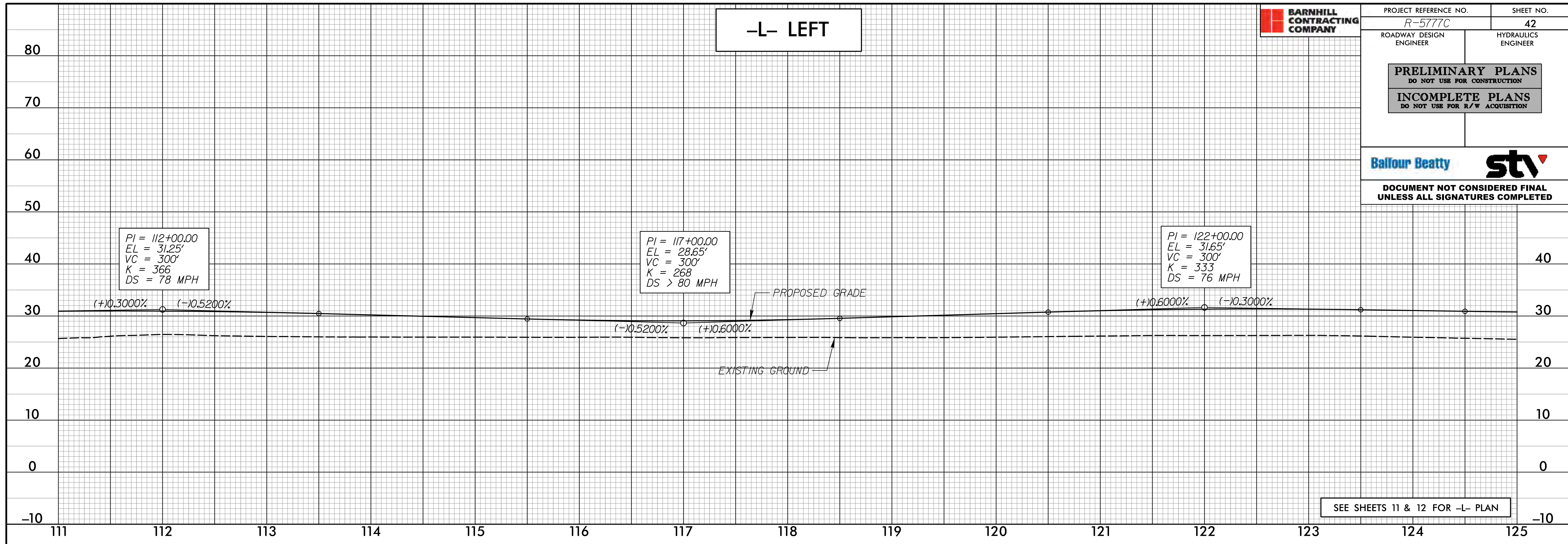
4/12/2023
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PRELIMINARY PLANS
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INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



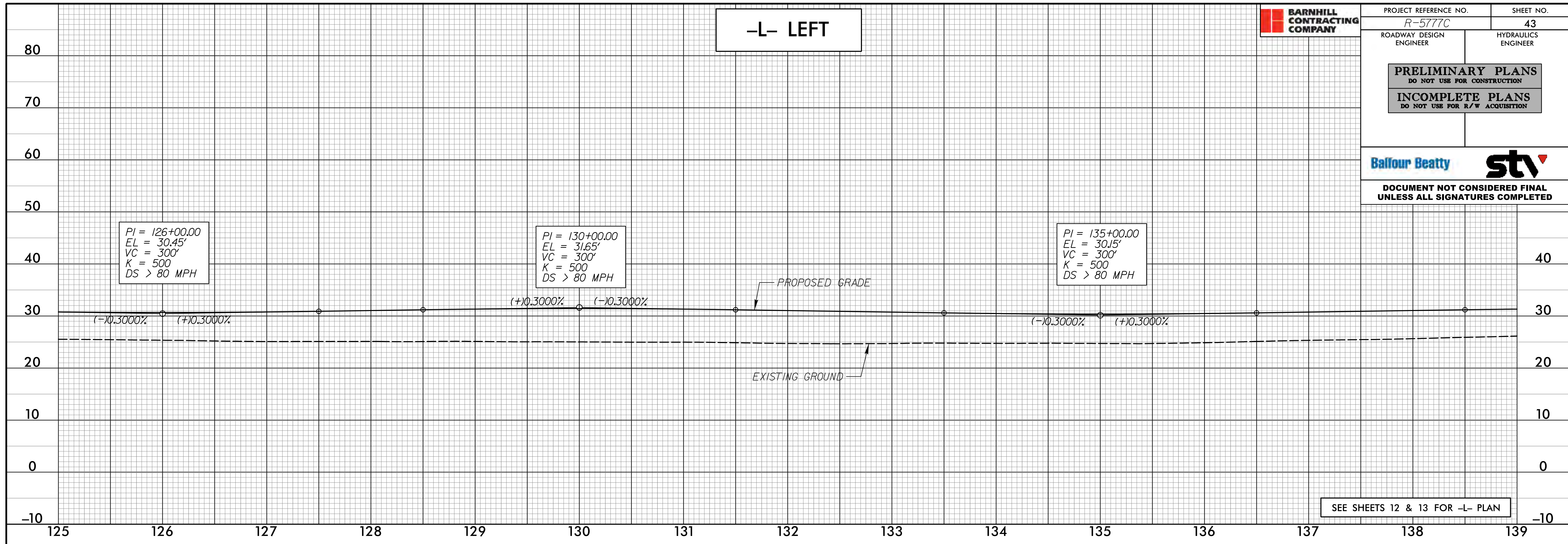
4/12/2023
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PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

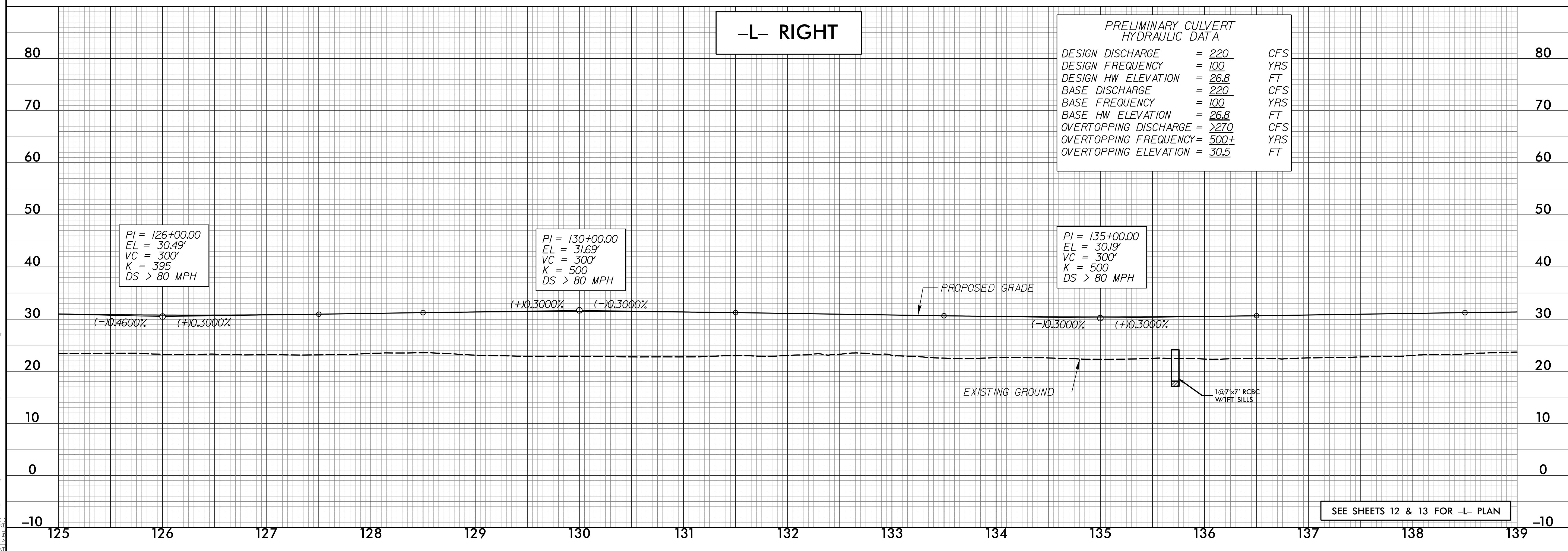
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



SEE SHEETS 12 & 13 FOR -L- PLAN



SEE SHEETS 12 & 13 FOR -L- PLAN

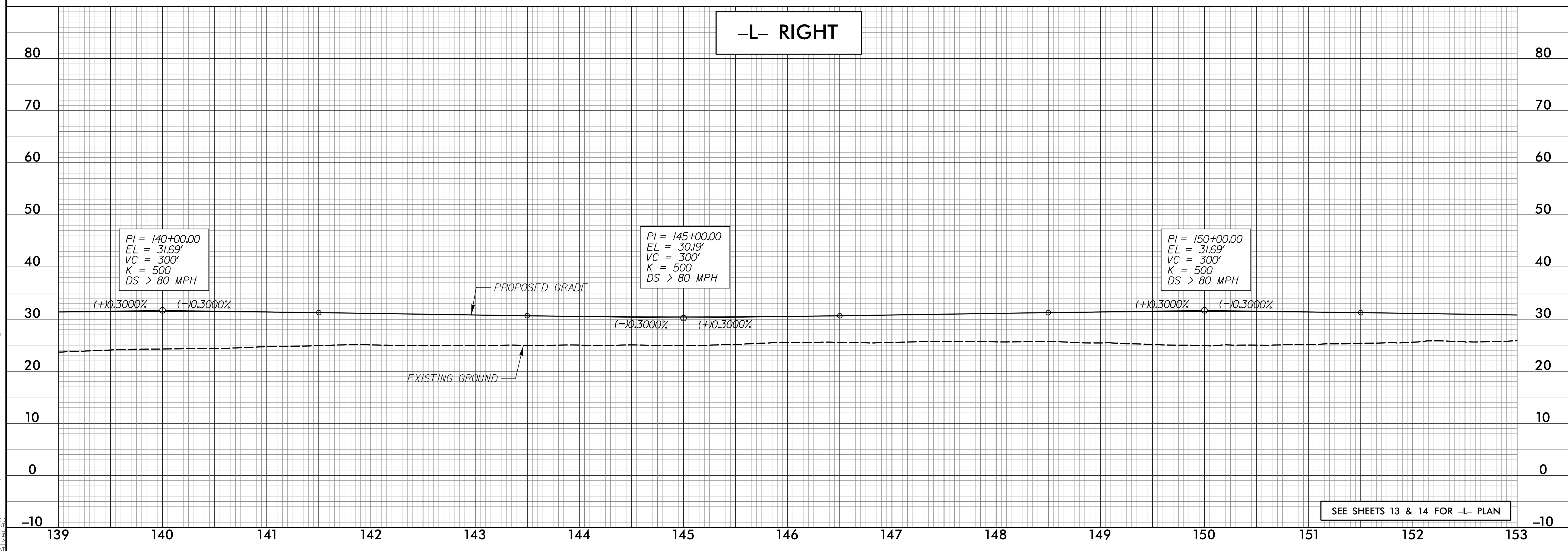
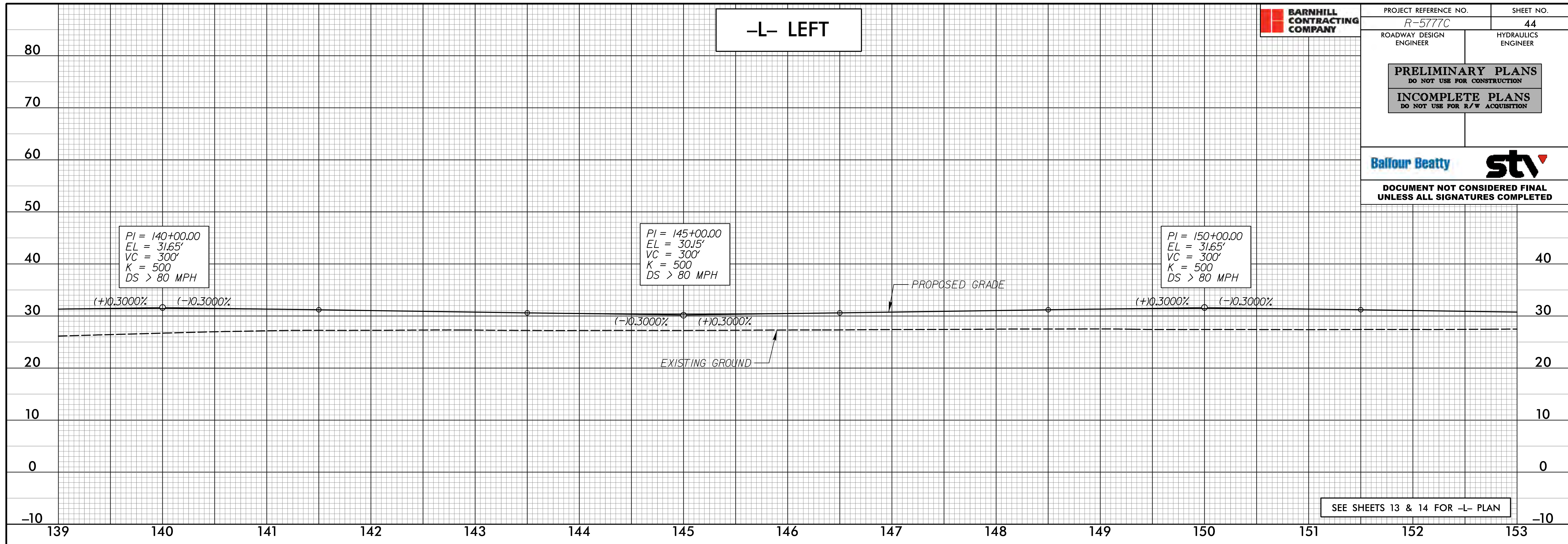
4/12/2023
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PRELIMINARY PLANS
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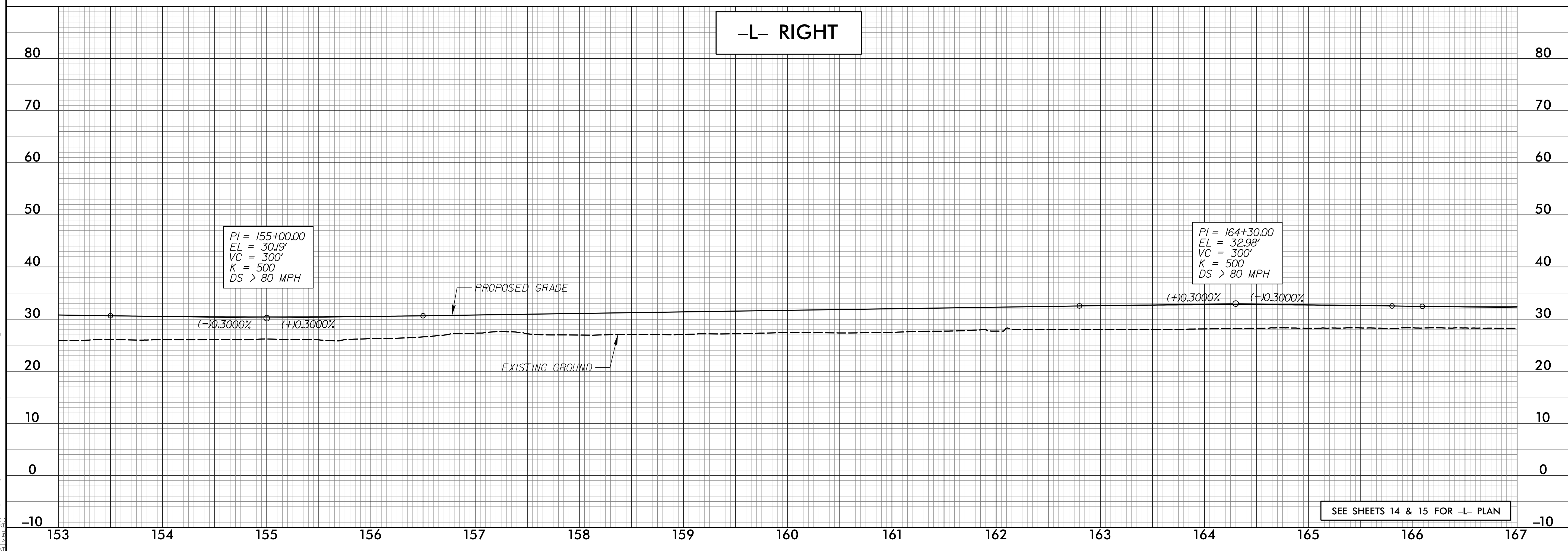
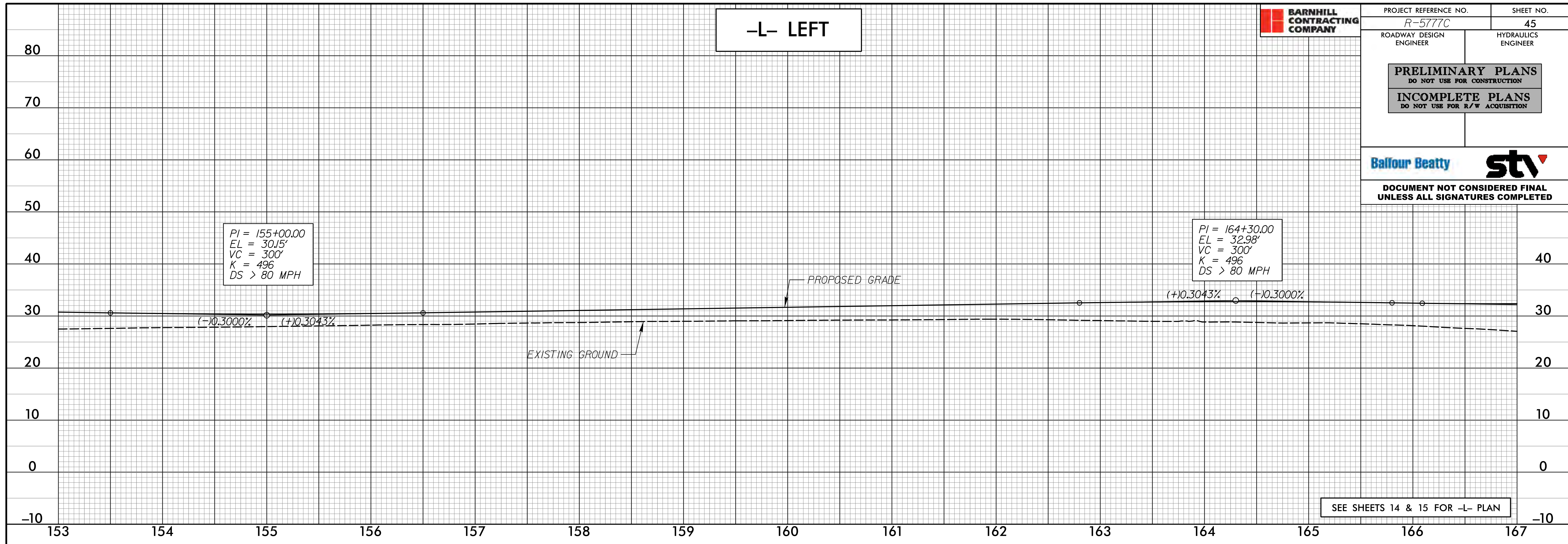
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



4/12/2023
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4/12/2023
 C:\Users\j\OneDrive\Documents\Projects\PSHNR-5777C-rdy_psh45_PFL.dgn

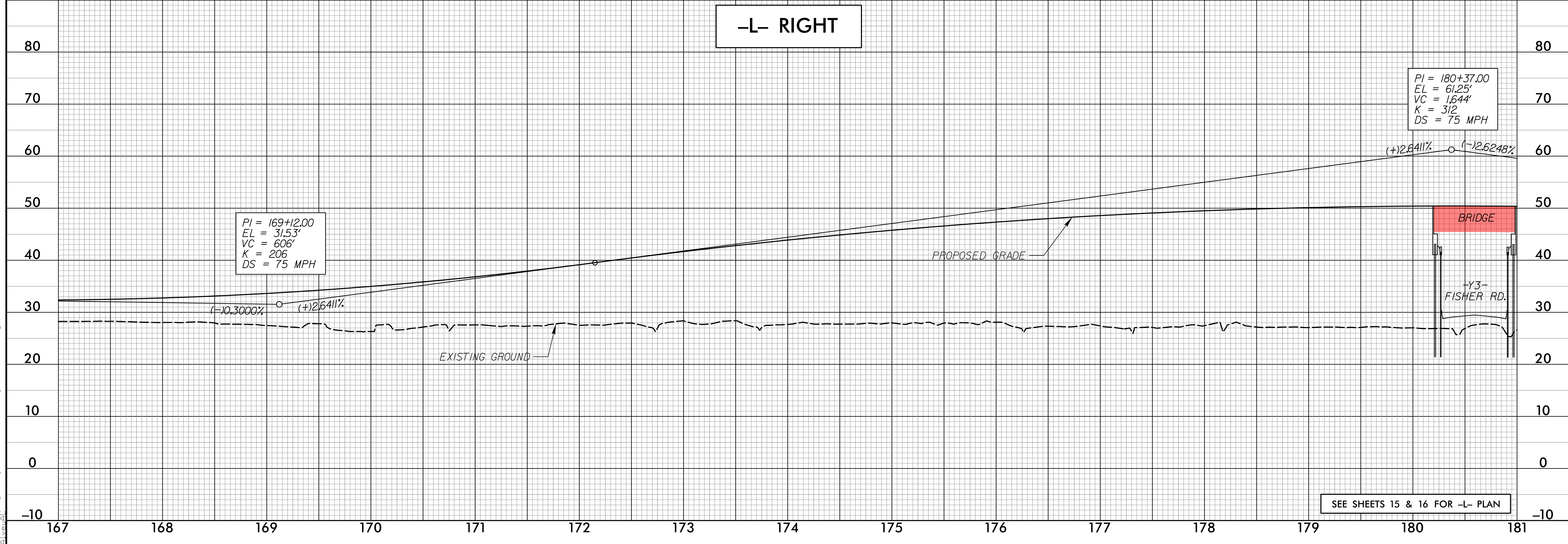
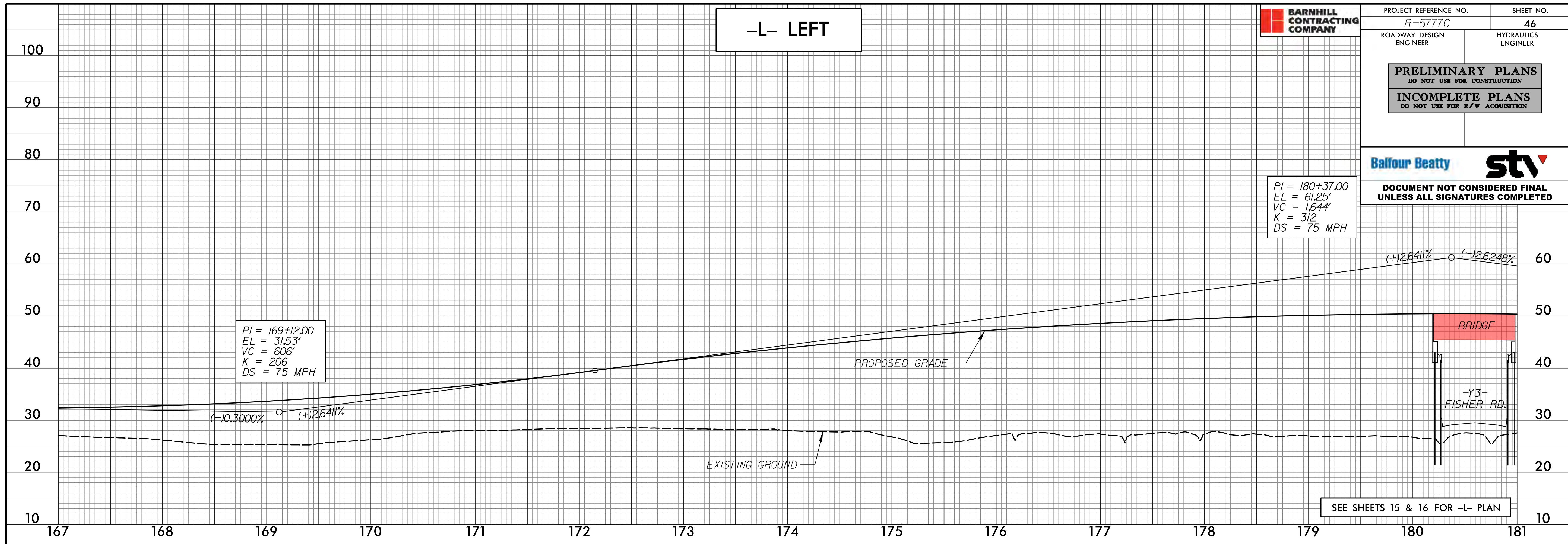
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

PI = 180+37.00
EL = 61.25'
VC = 1,644'
K = 312
DS = 75 MPH



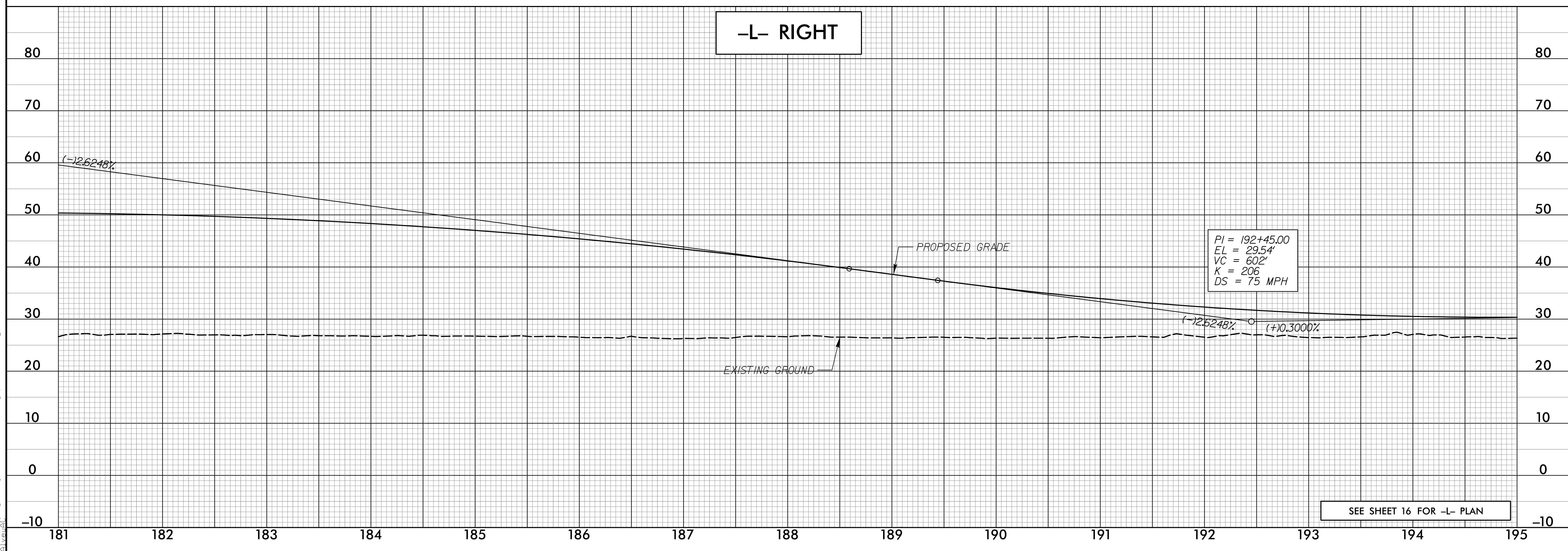
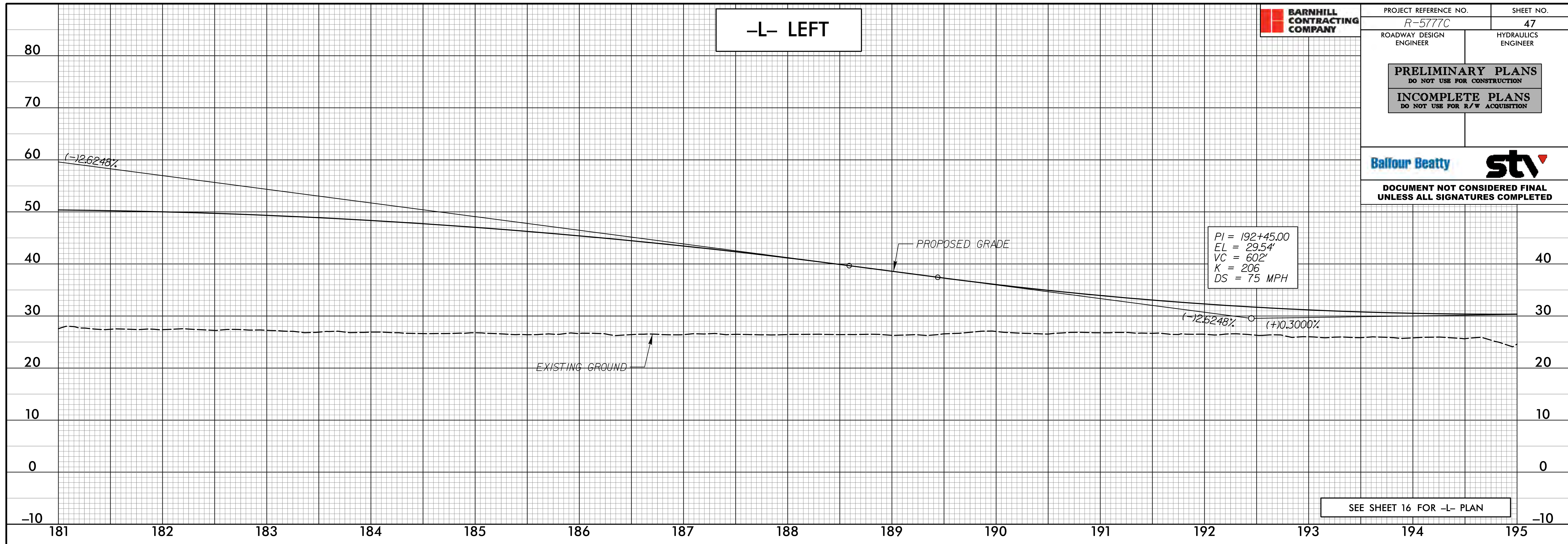
4/12/2023
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PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

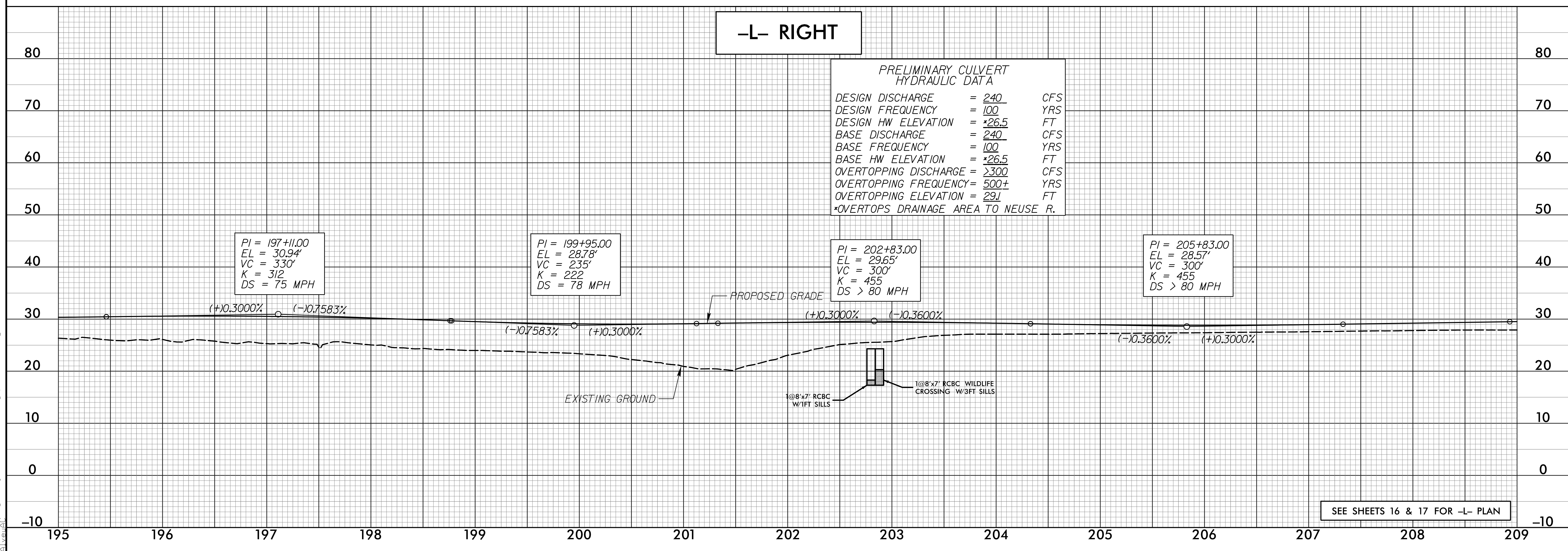
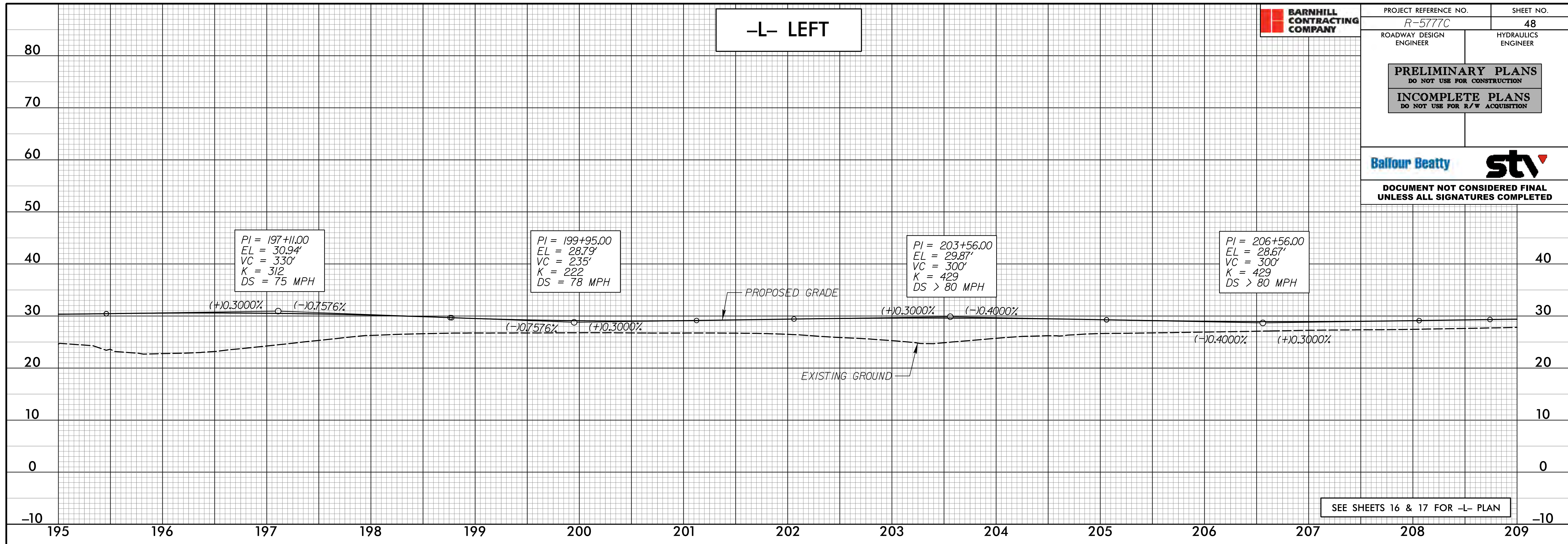


4/12/2023
 C:\Users\j\OneDrive\Documents\Projects\PSHR-5777C-rdy_psh47_PFL.dgn

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



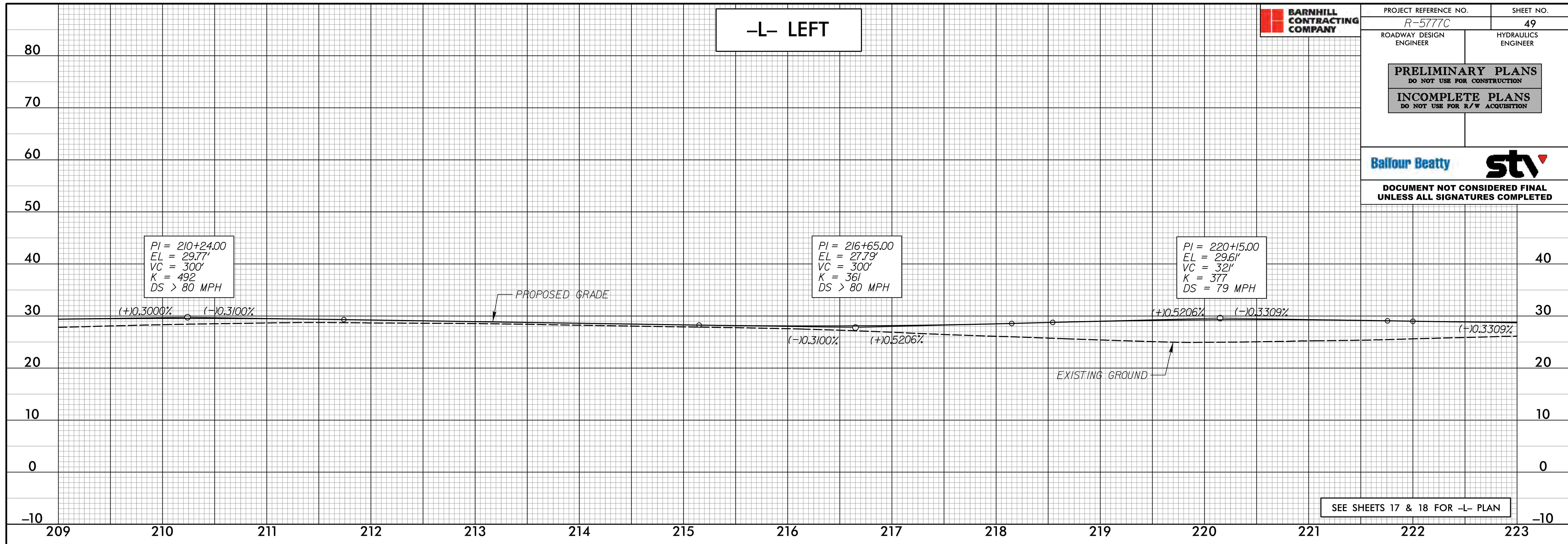
4/12/2023
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PRELIMINARY PLANS
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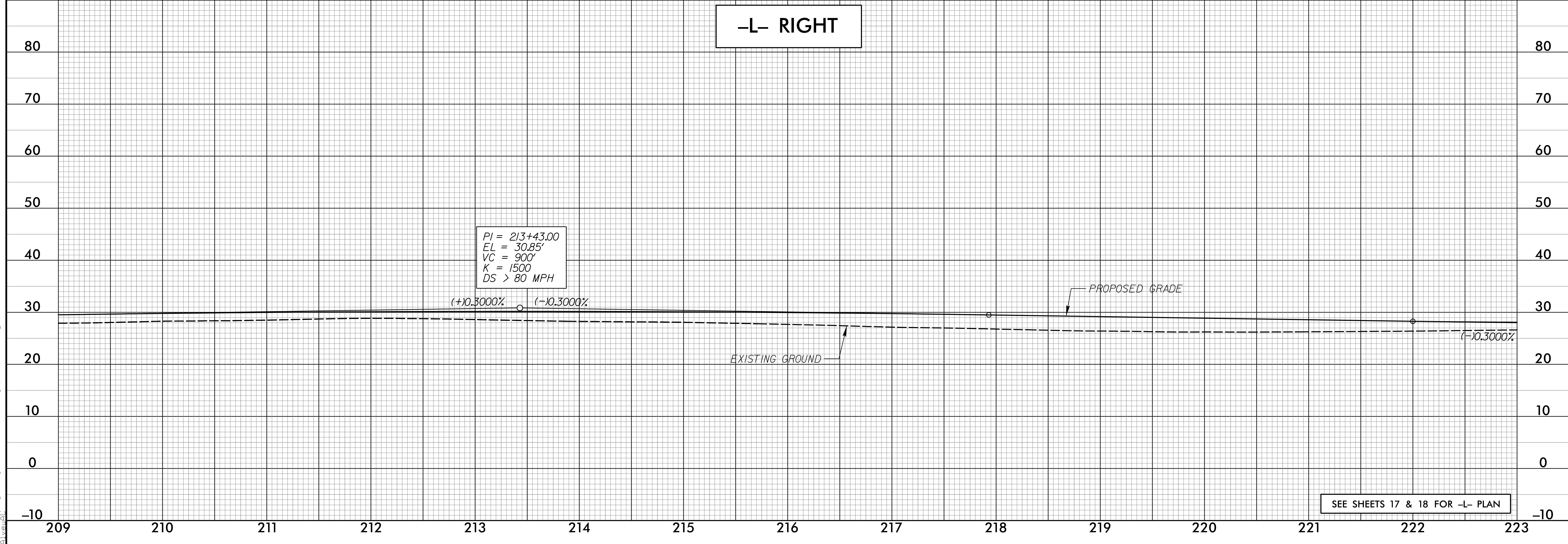
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



SEE SHEETS 17 & 18 FOR -L- PLAN



SEE SHEETS 17 & 18 FOR -L- PLAN

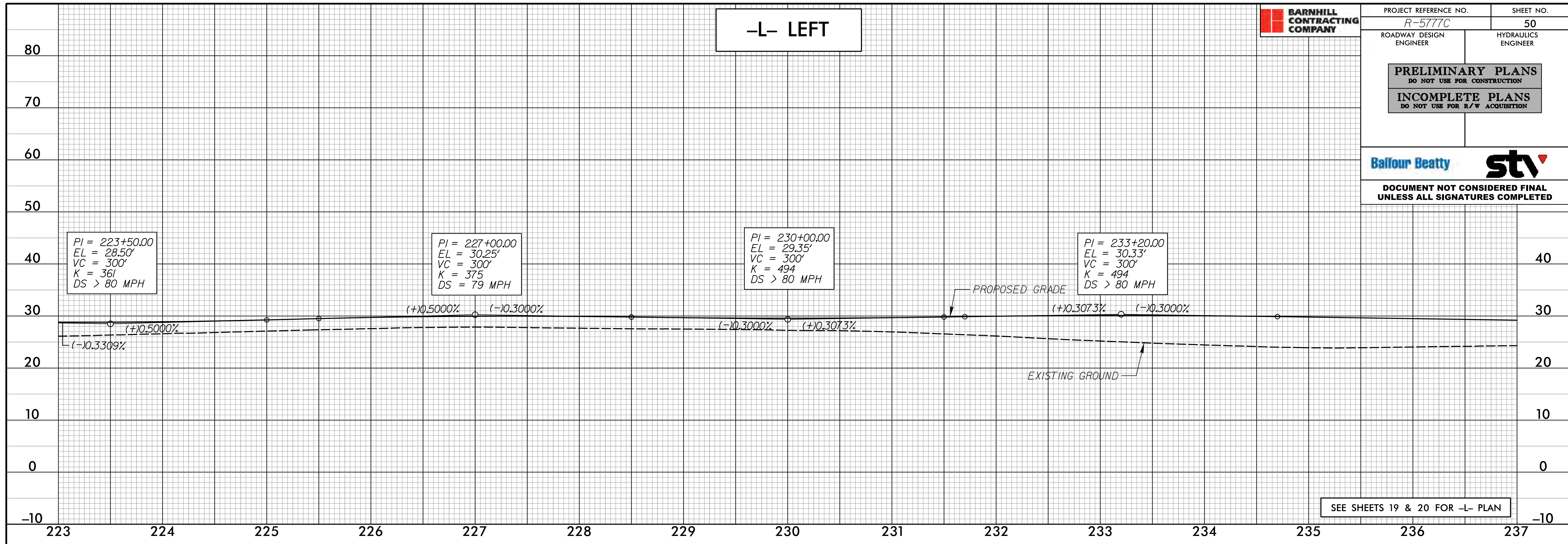
4/12/2023
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PRELIMINARY PLANS
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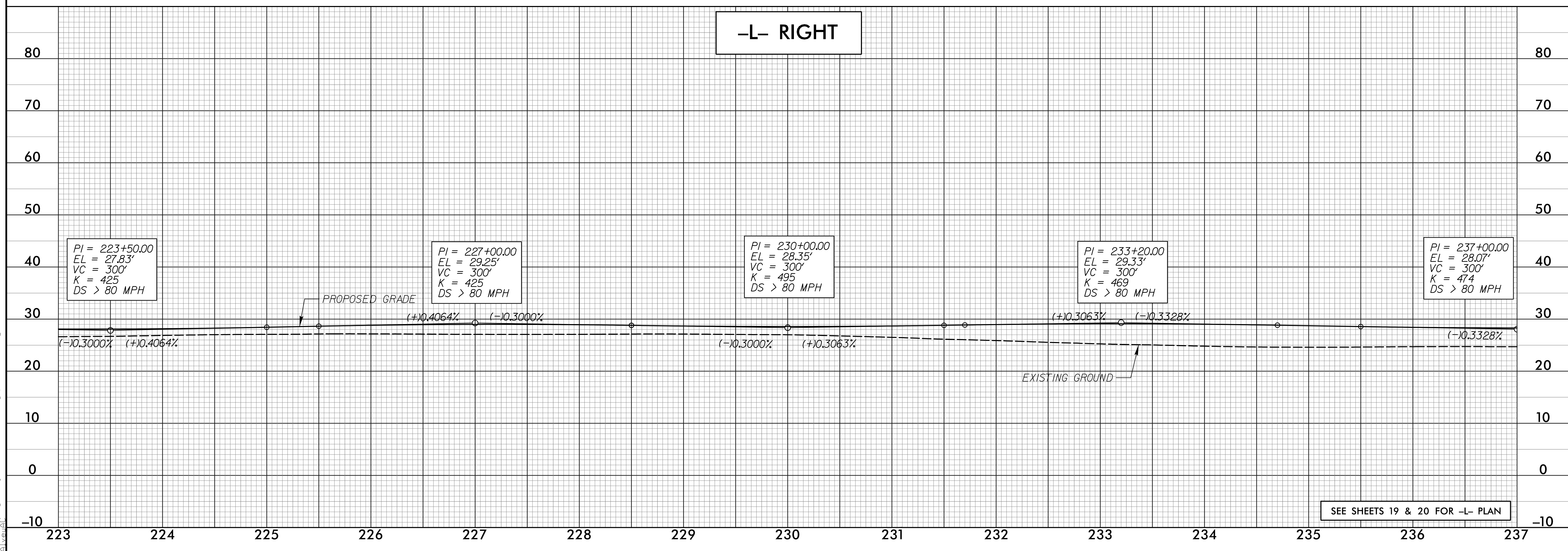
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



SEE SHEETS 19 & 20 FOR -L- PLAN



SEE SHEETS 19 & 20 FOR -L- PLAN

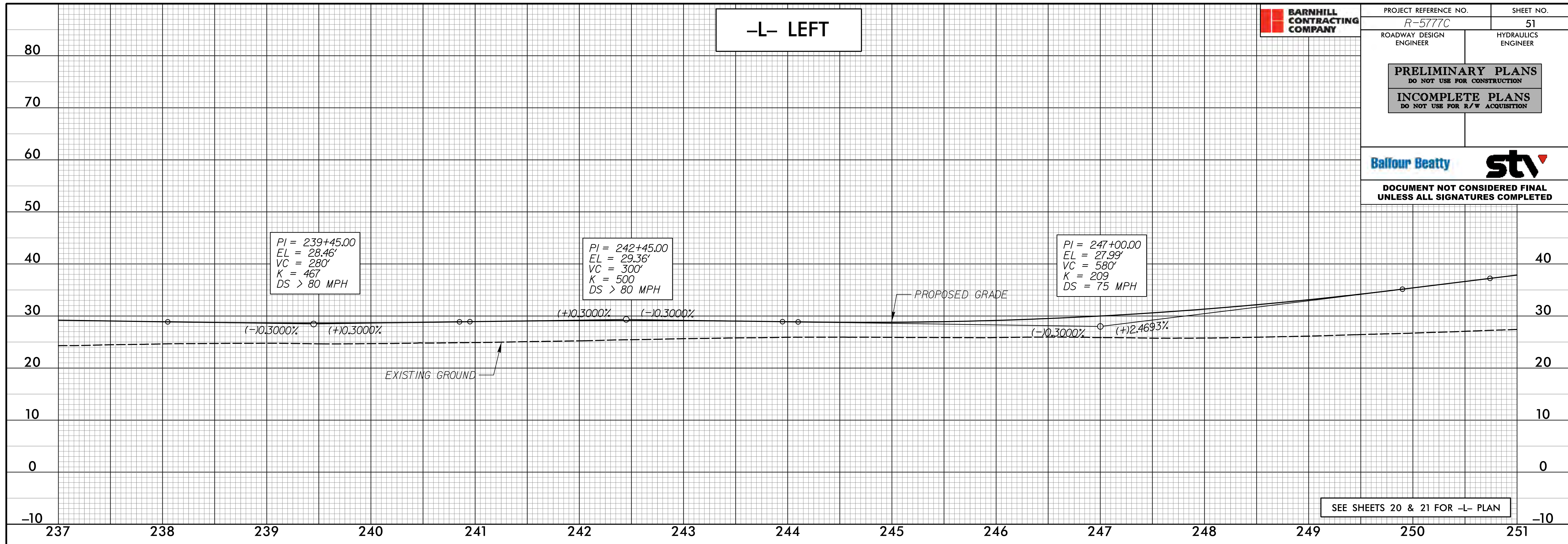
4/12/2023
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PRELIMINARY PLANS
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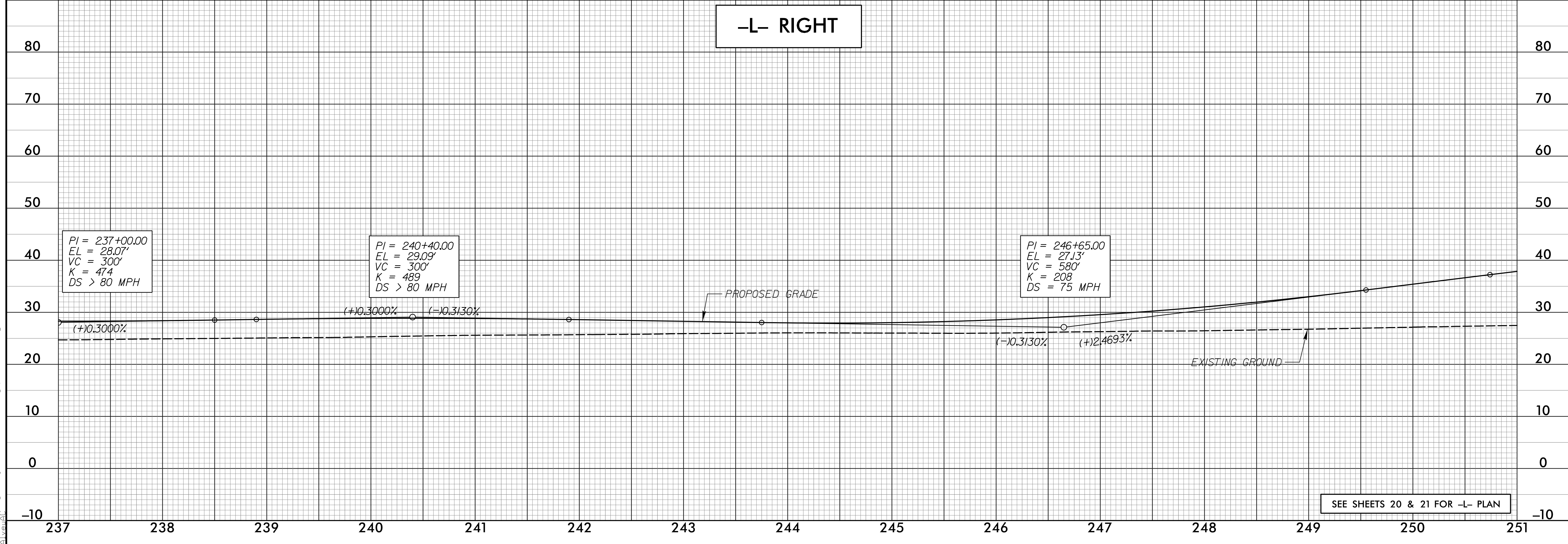
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



SEE SHEETS 20 & 21 FOR -L- PLAN



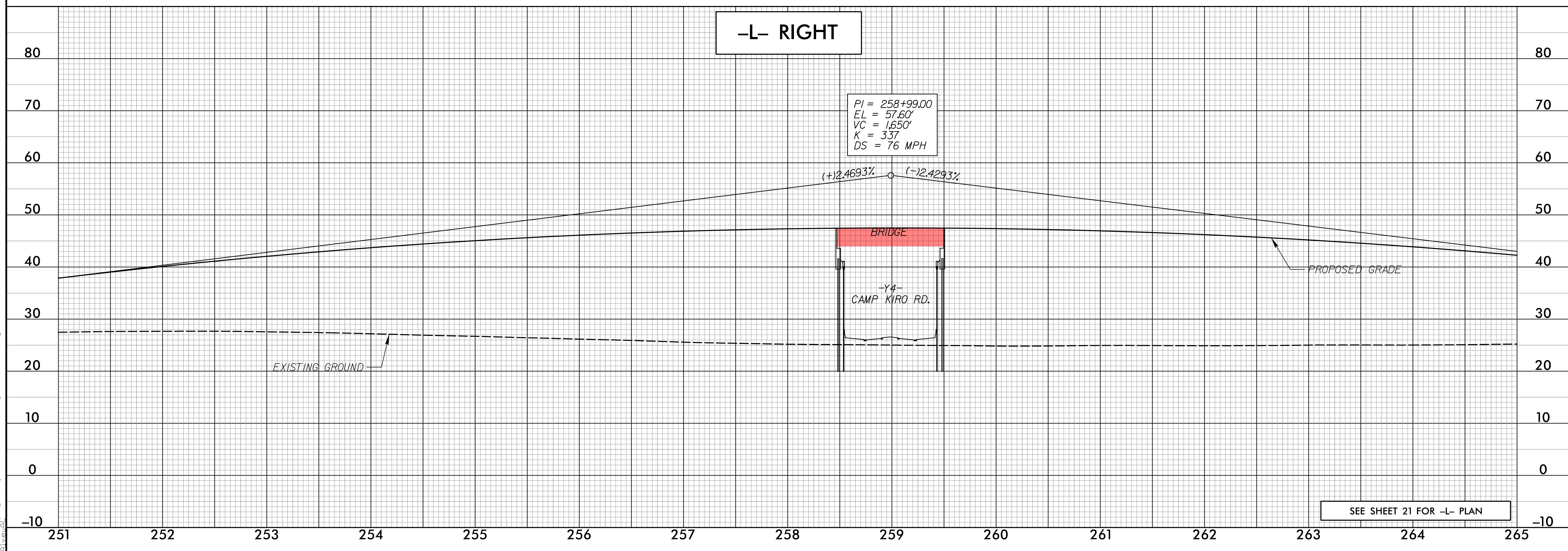
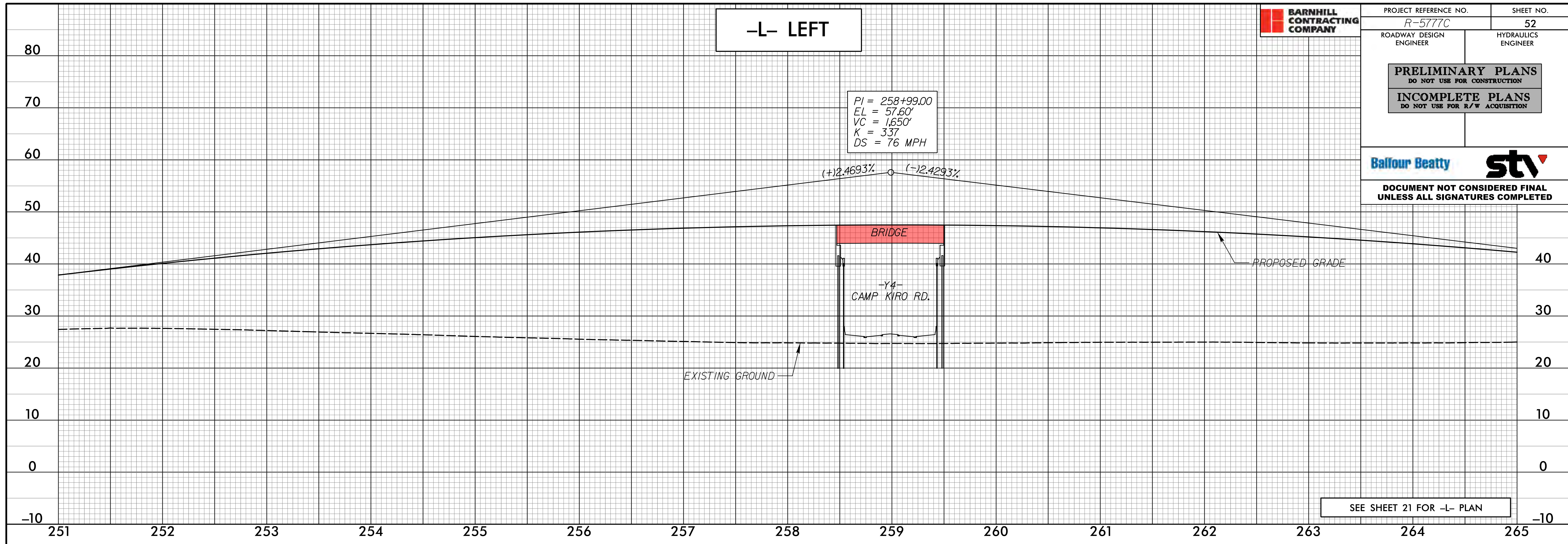
SEE SHEETS 20 & 21 FOR -L- PLAN

4/12/2023
 C:\Users\j\OneDrive\Work\Projects\PSHR-R-5777C-L-rdy-esh51-PFL.dgn

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



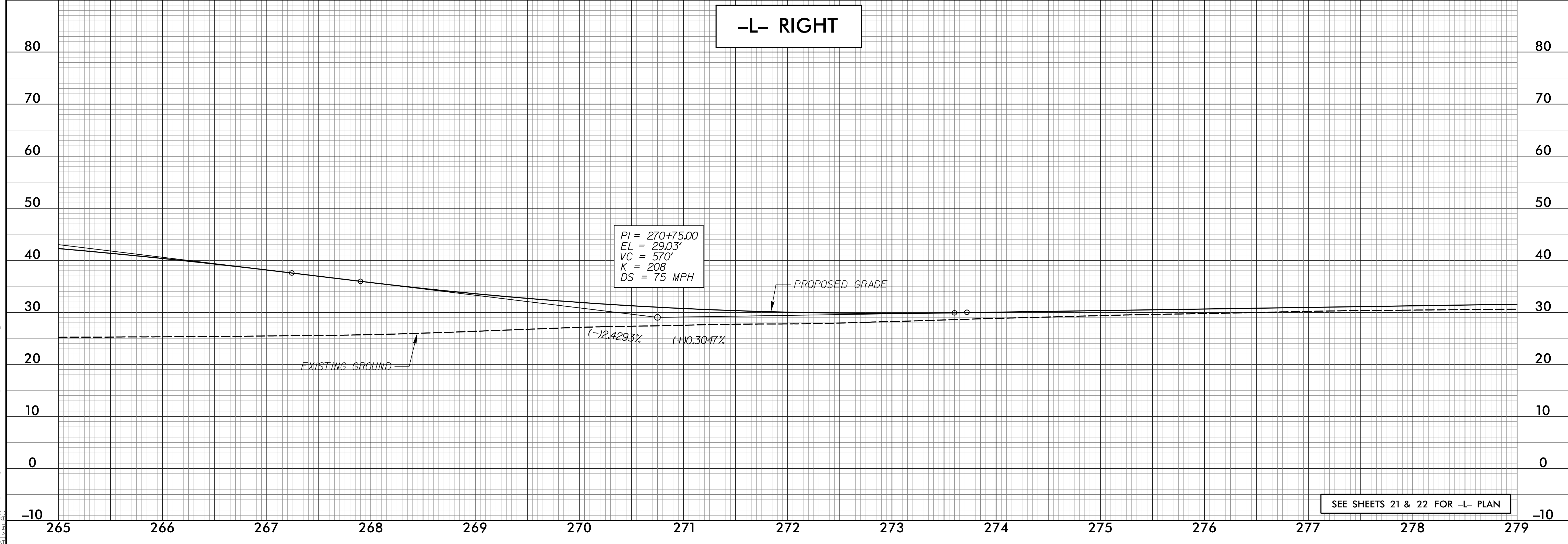
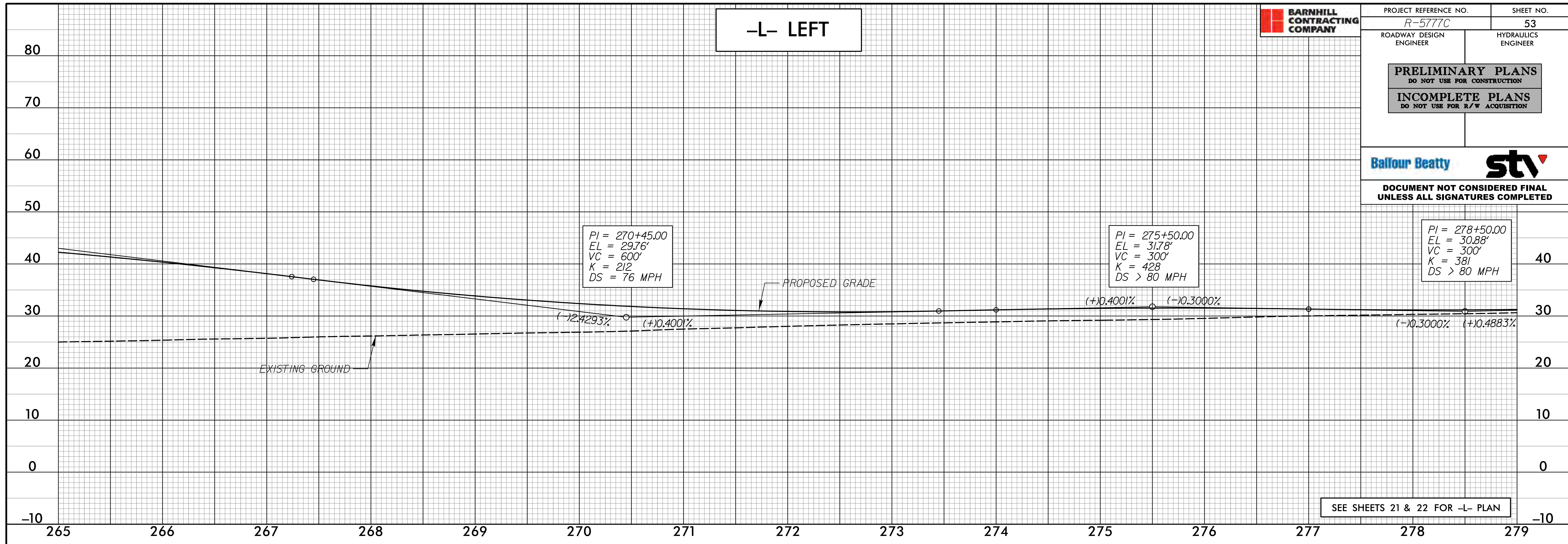
4/12/2023
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PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

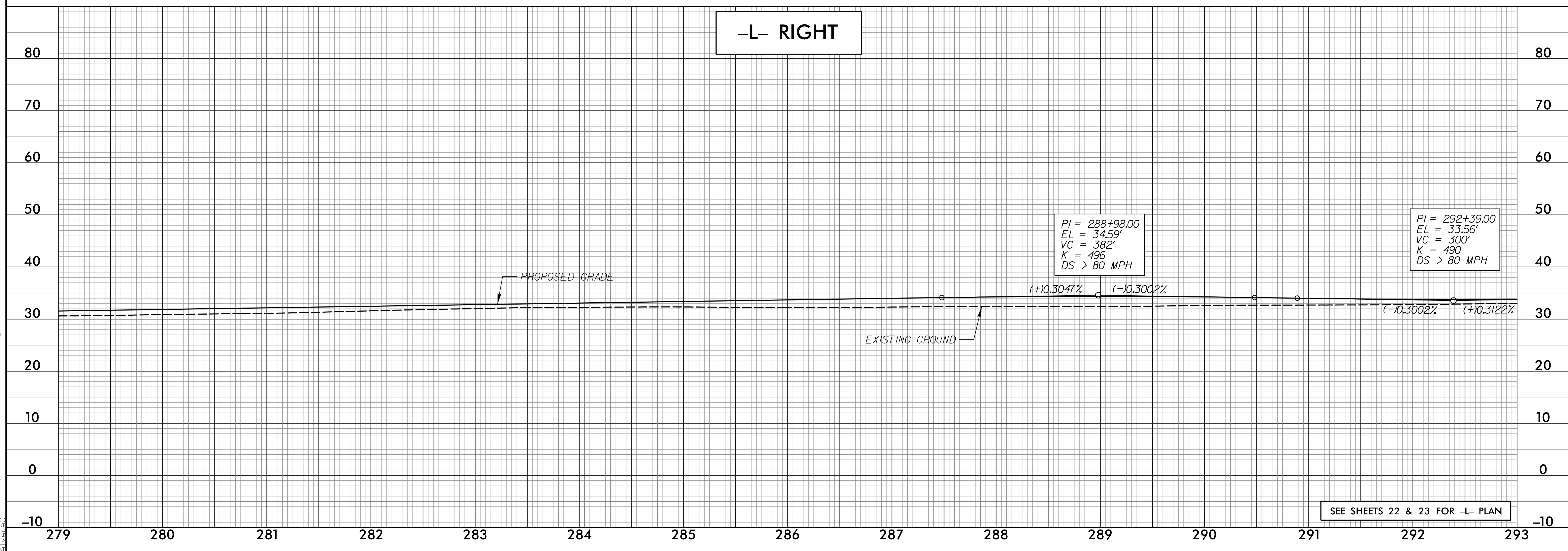
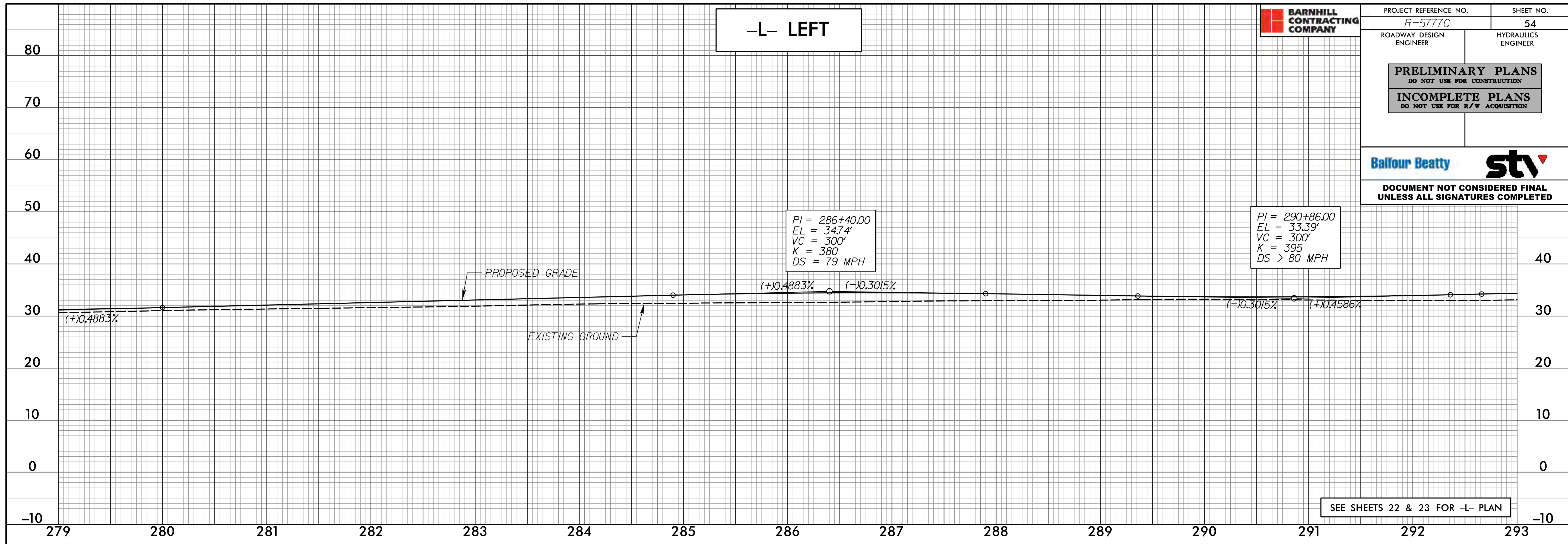
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION



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4/12/2023
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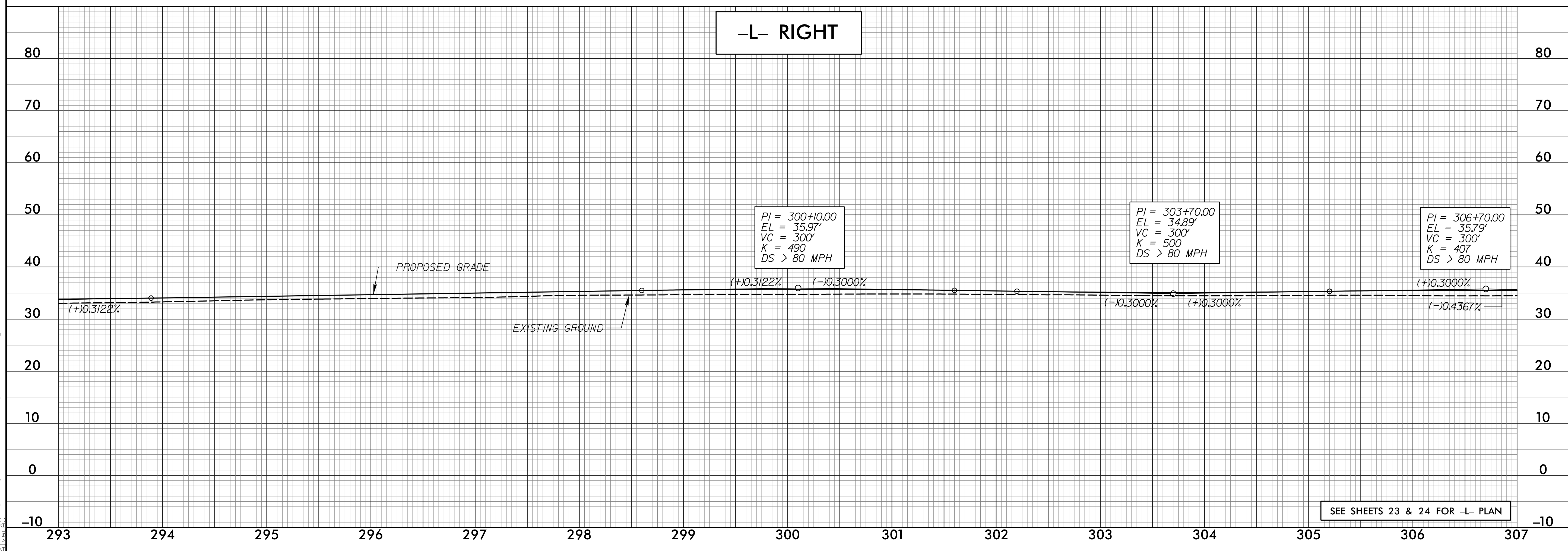
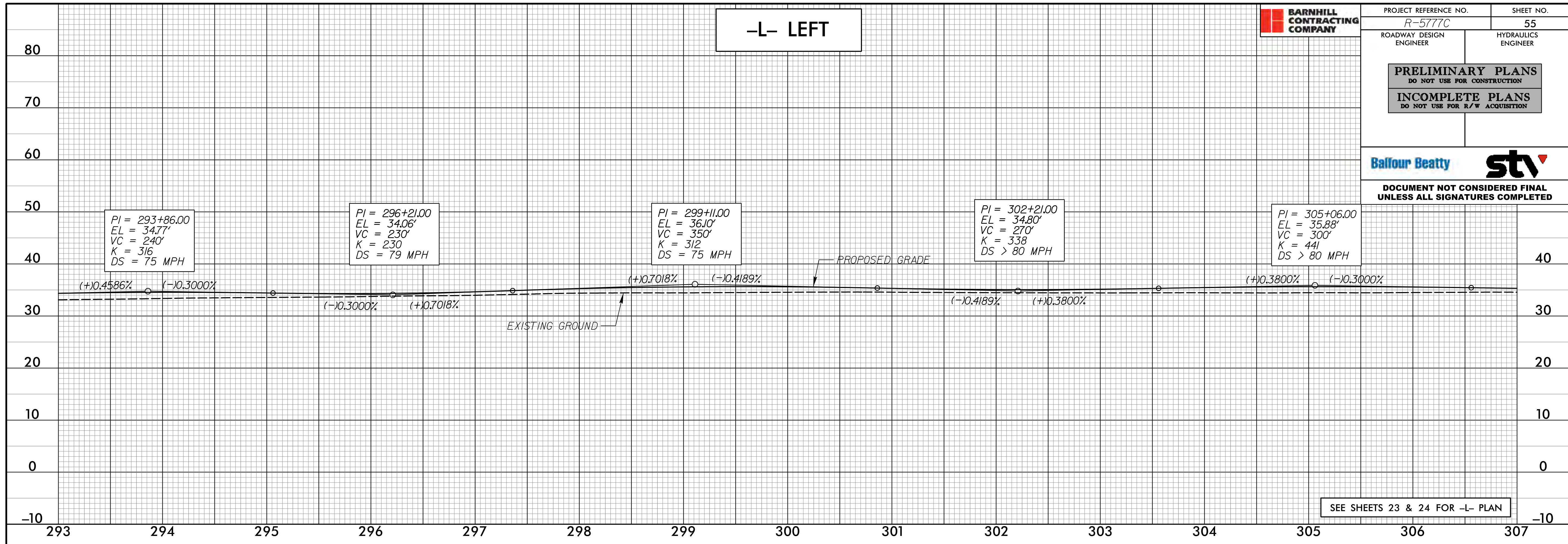
4/12/2023
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PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



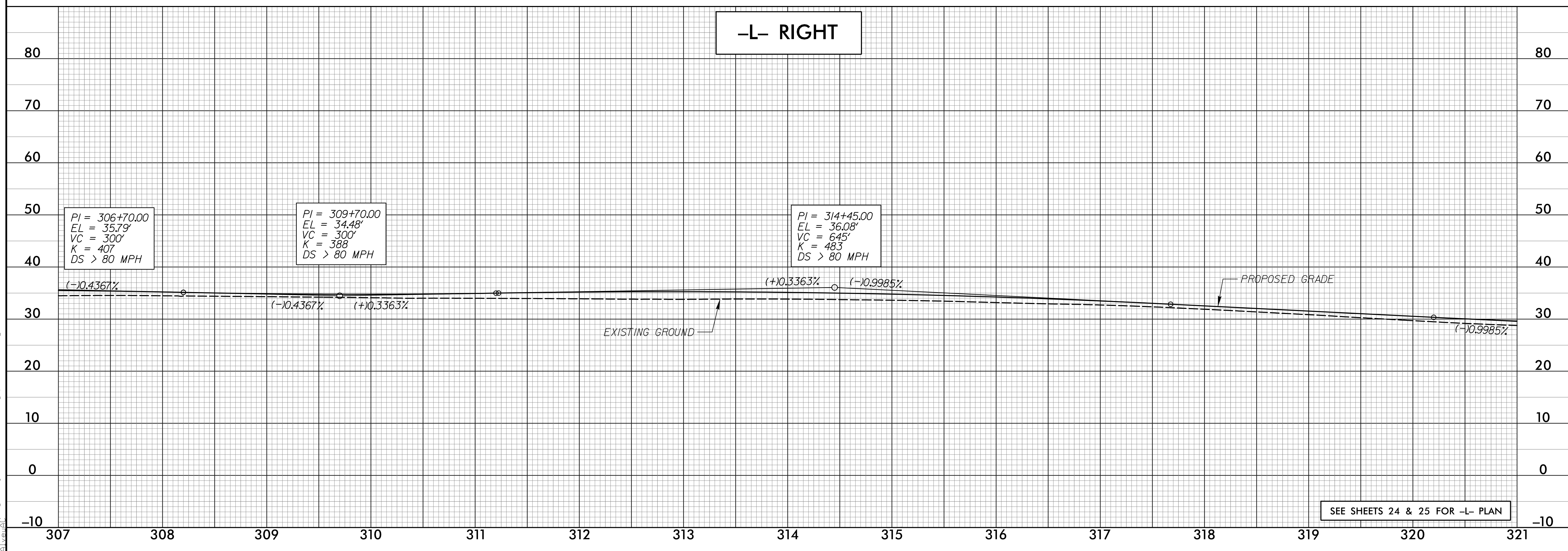
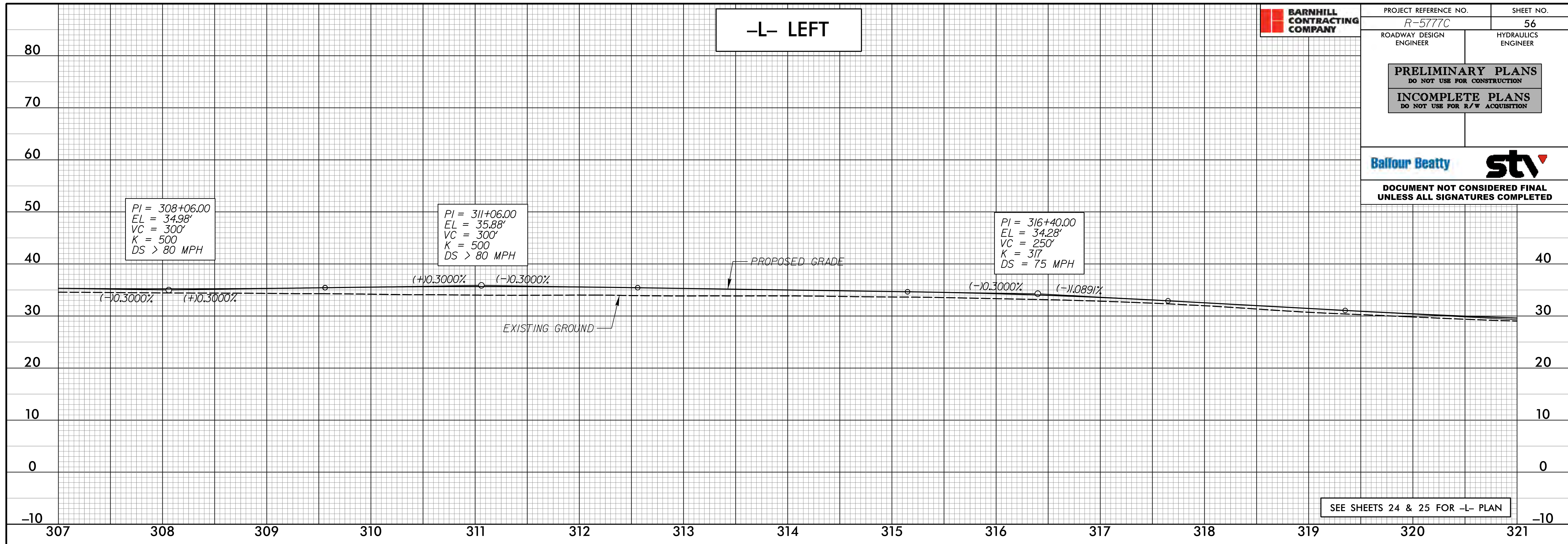
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PRELIMINARY PLANS
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INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



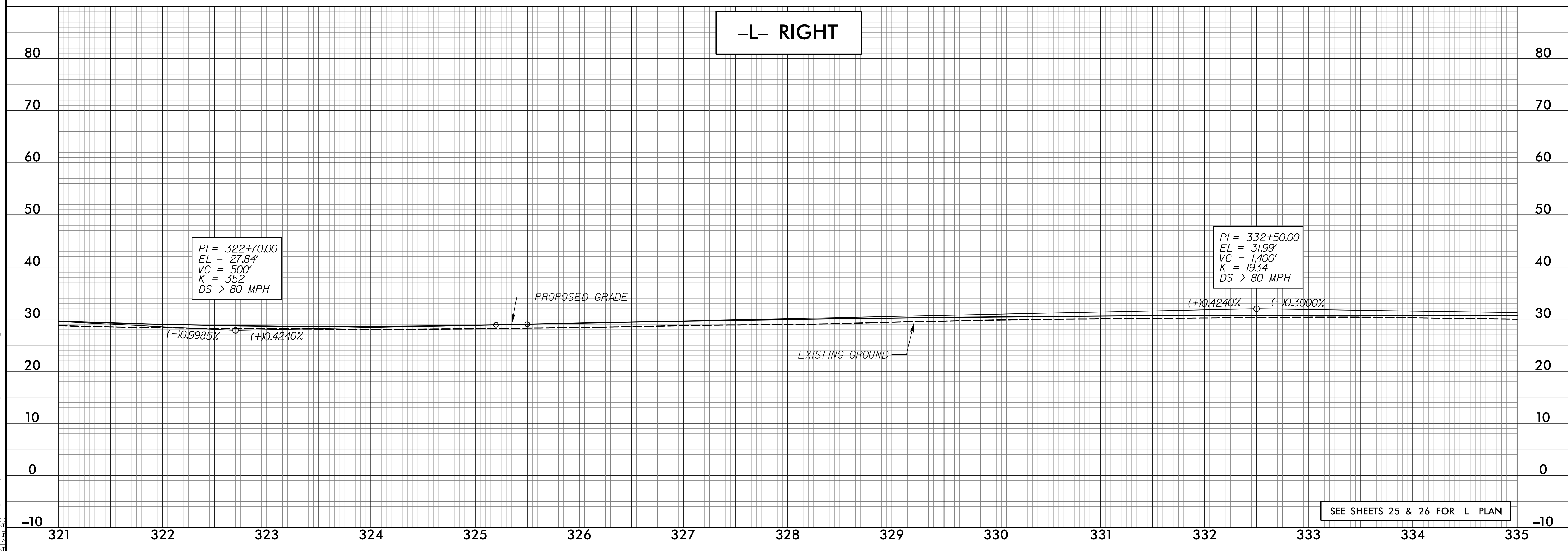
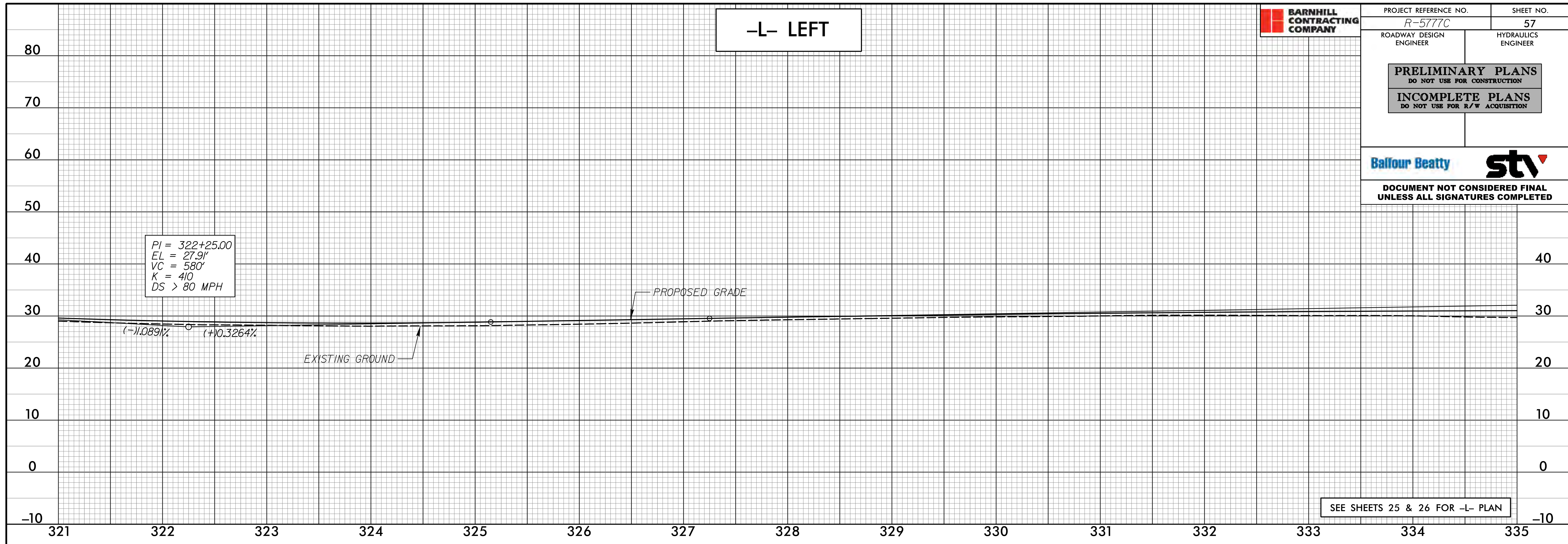
4/12/2023
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PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION



DOCUMENT NOT CONSIDERED FINAL
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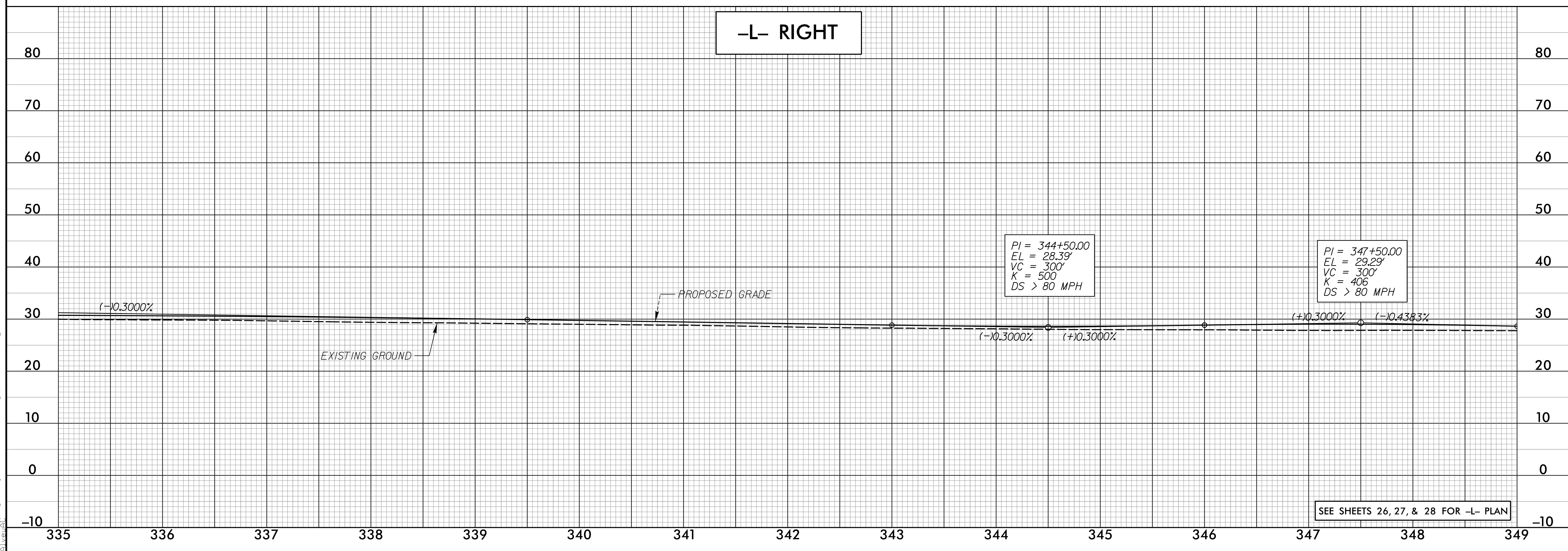
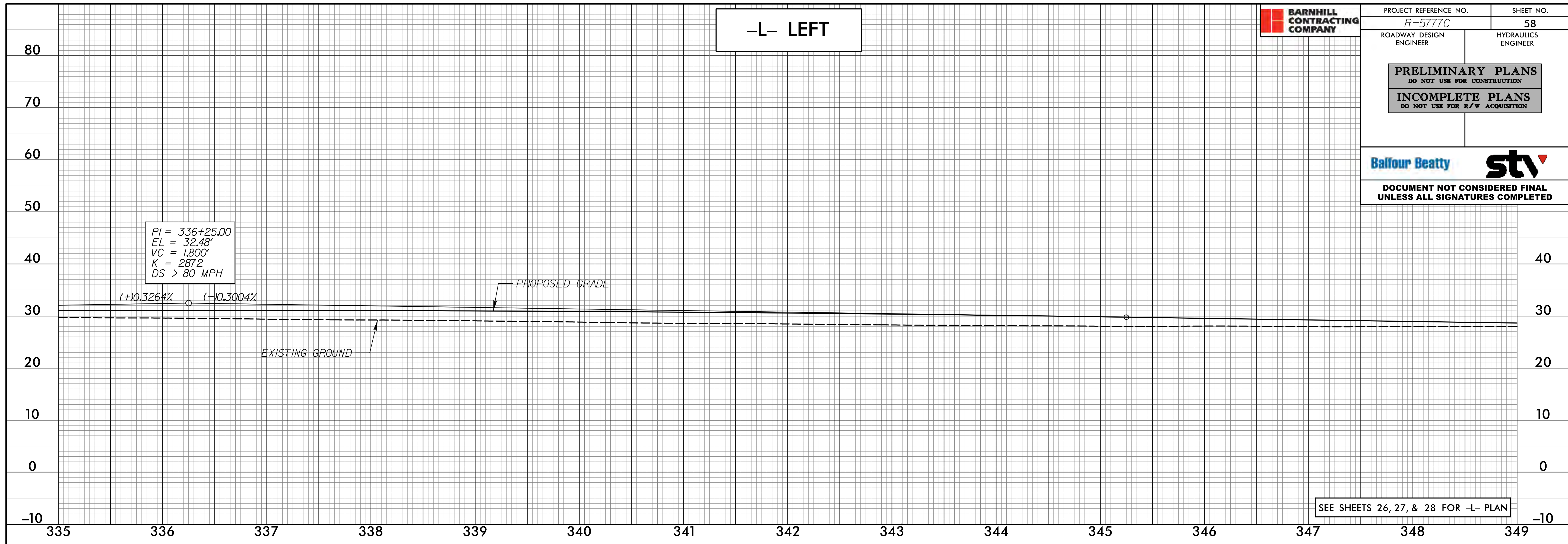
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PRELIMINARY PLANS
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INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

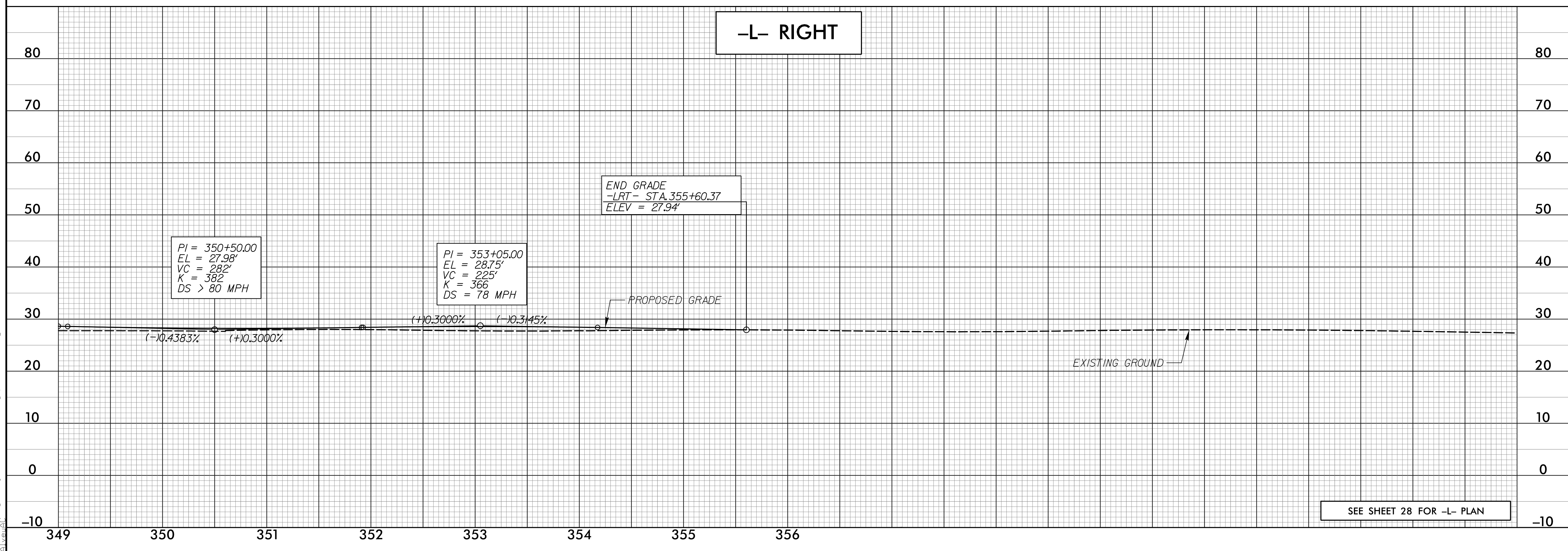
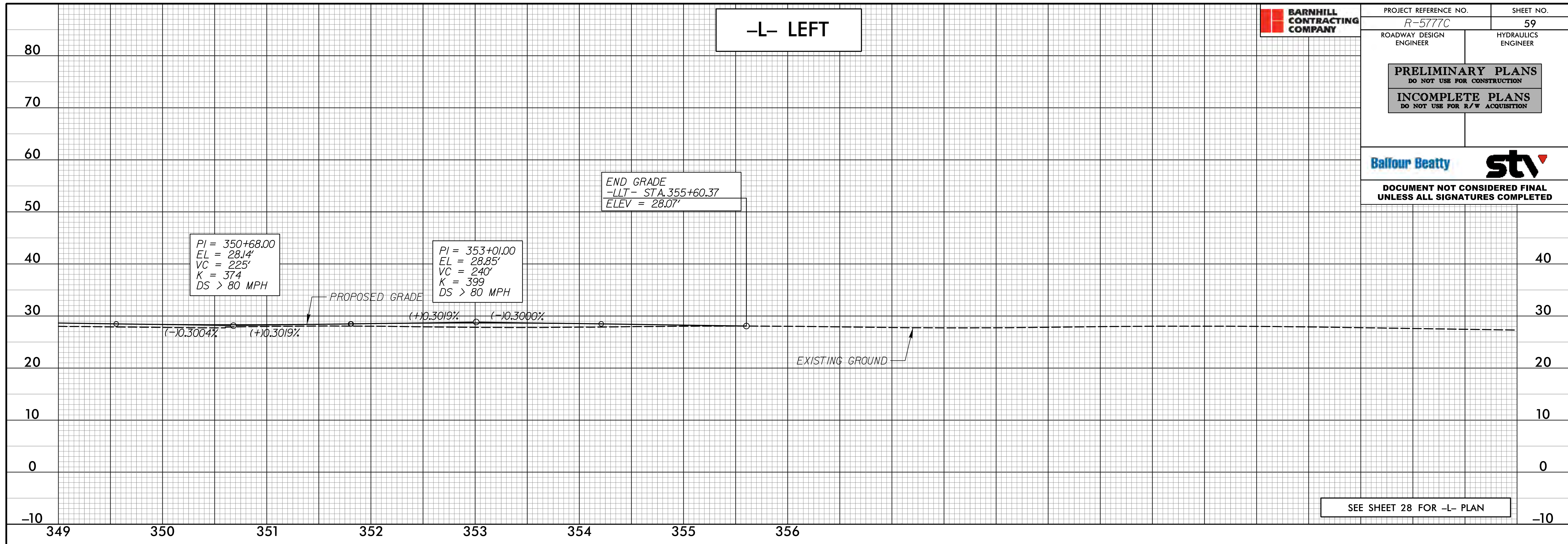


4/12/2023
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PRELIMINARY PLANS
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INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



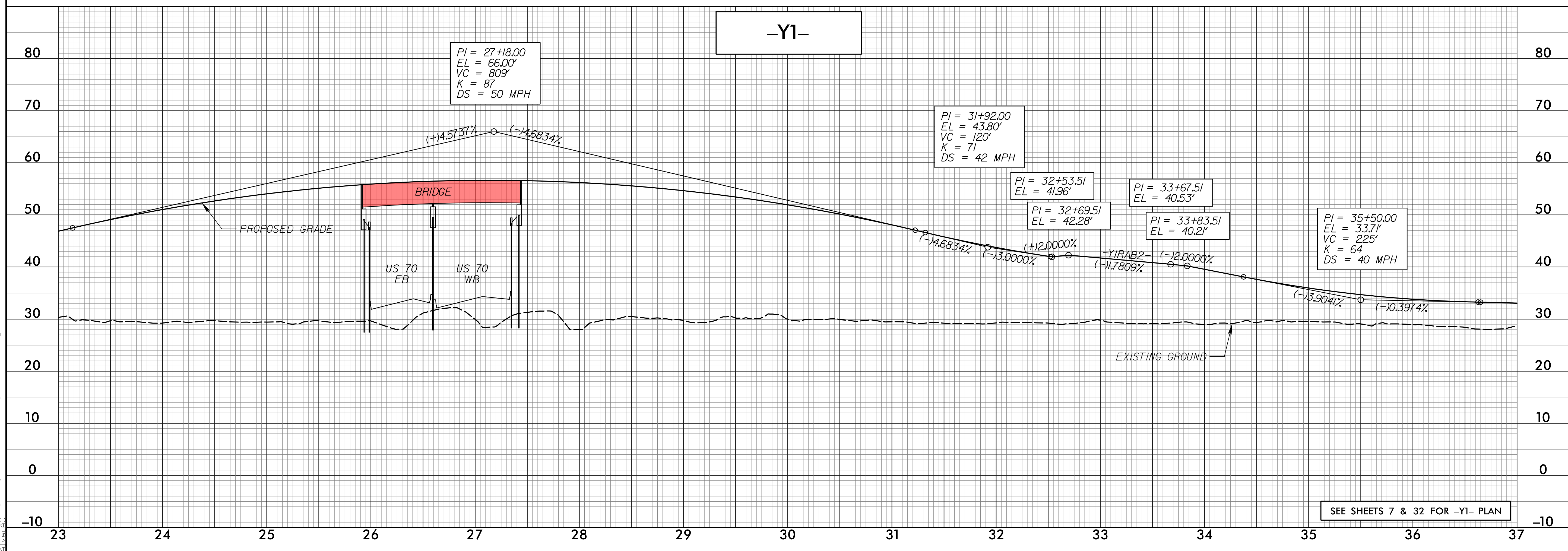
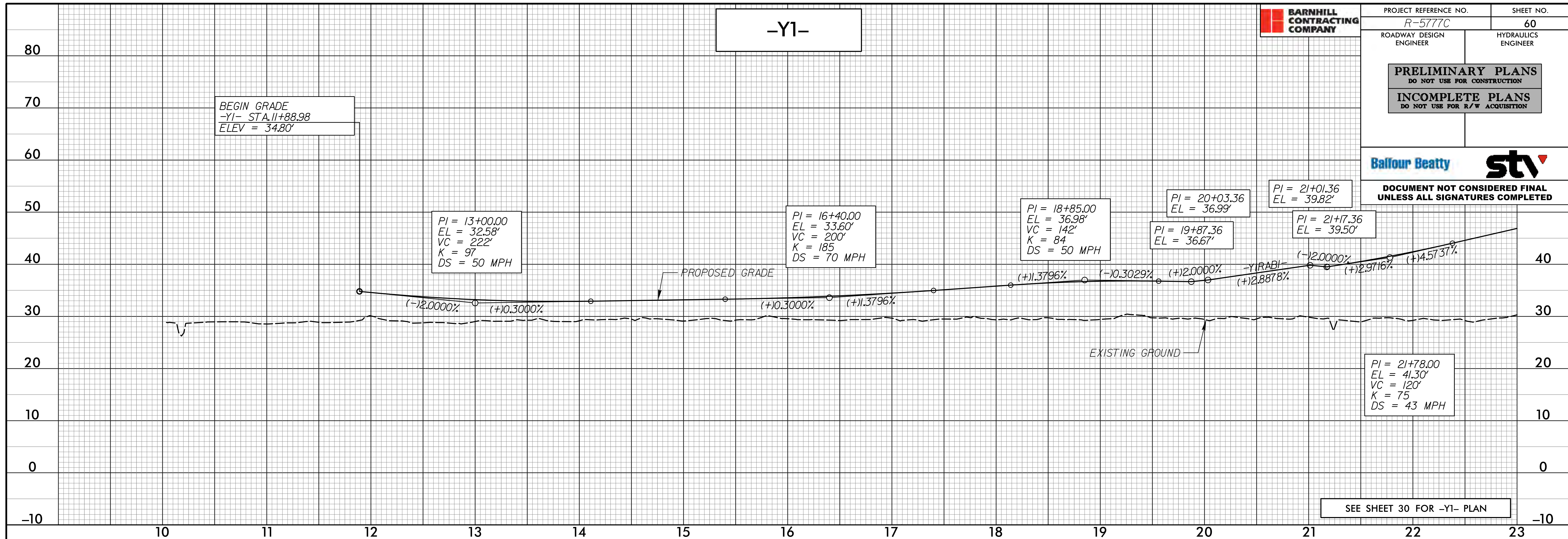
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PRELIMINARY PLANS
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INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



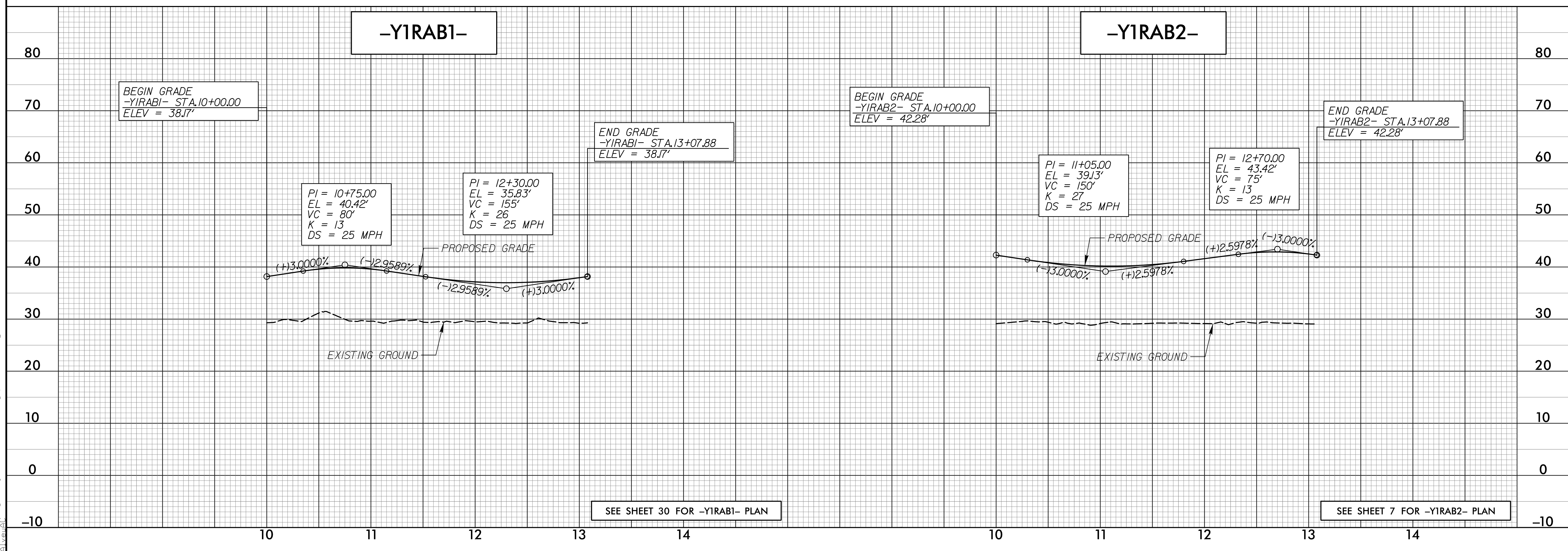
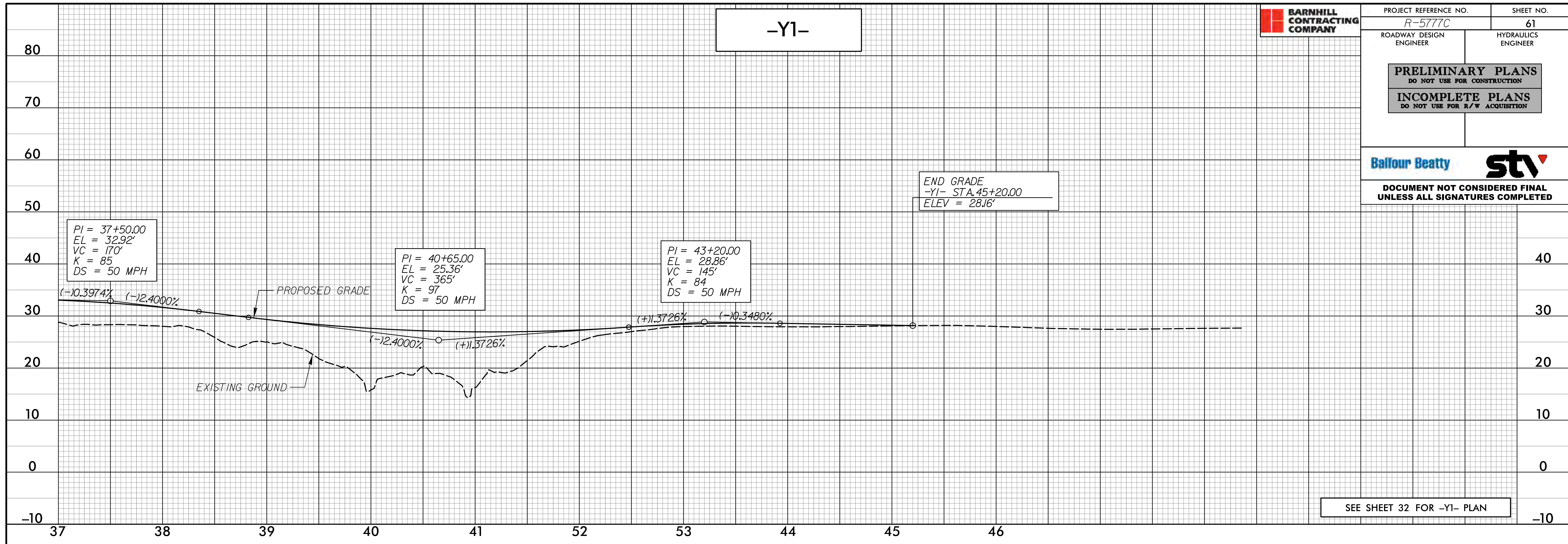
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PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



4/12/2023
 C:\Users\pcoj\OneDrive\Documents\Projects\PSHR-5777C-rdy-esh61_PFL.dgn

PRELIMINARY PLANS
 DO NOT USE FOR CONSTRUCTION
INCOMPLETE PLANS
 DO NOT USE FOR R/W ACQUISITION



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PRELIMINARY CULVERT HYDRAULIC DATA
 DESIGN DISCHARGE = 190 CFS
 DESIGN FREQUENCY = 25 YRS
 DESIGN HW ELEVATION = 27.6 FT
 BASE DISCHARGE = 240 CFS
 BASE FREQUENCY = 100 YRS
 BASE HW ELEVATION = 28.8 FT
 OVERTOPPING DISCHARGE = 2310 CFS
 OVERTOPPING FREQUENCY = 500+ YRS
 OVERTOPPING ELEVATION = 34.4 FT

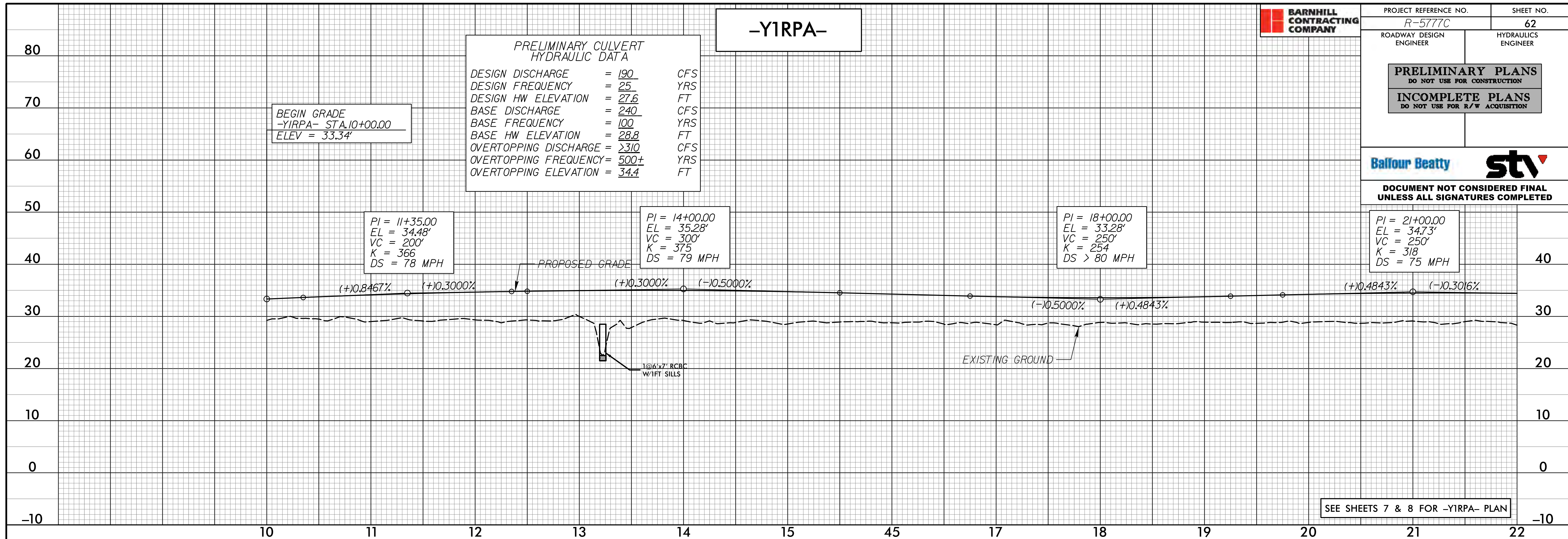
BEGIN GRADE
 -YIRPA- STA. 10+00.00
 ELEV = 33.34'

PI = 11+35.00
 EL = 34.48'
 VC = 200'
 K = 366
 DS = 78 MPH

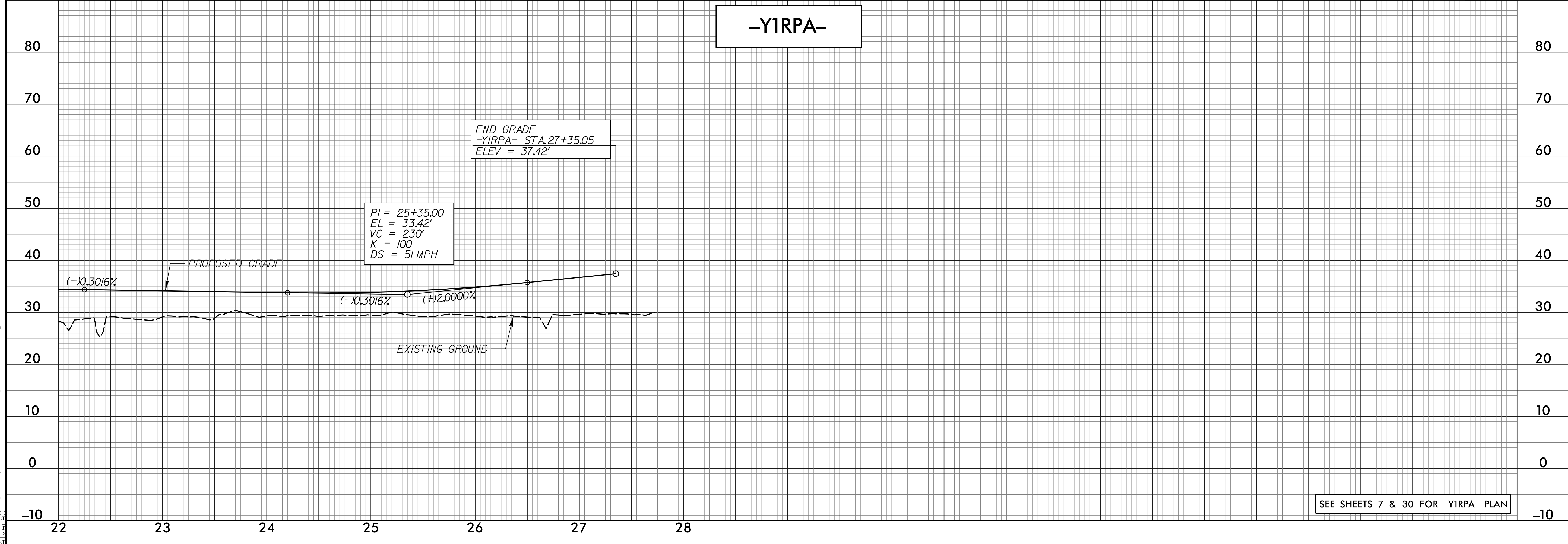
PI = 14+00.00
 EL = 35.28'
 VC = 300'
 K = 375
 DS = 79 MPH

PI = 18+00.00
 EL = 33.28'
 VC = 250'
 K = 254
 DS > 80 MPH

PI = 21+00.00
 EL = 34.73'
 VC = 250'
 K = 318
 DS = 75 MPH



SEE SHEETS 7 & 8 FOR -YIRPA- PLAN



SEE SHEETS 7 & 30 FOR -YIRPA- PLAN

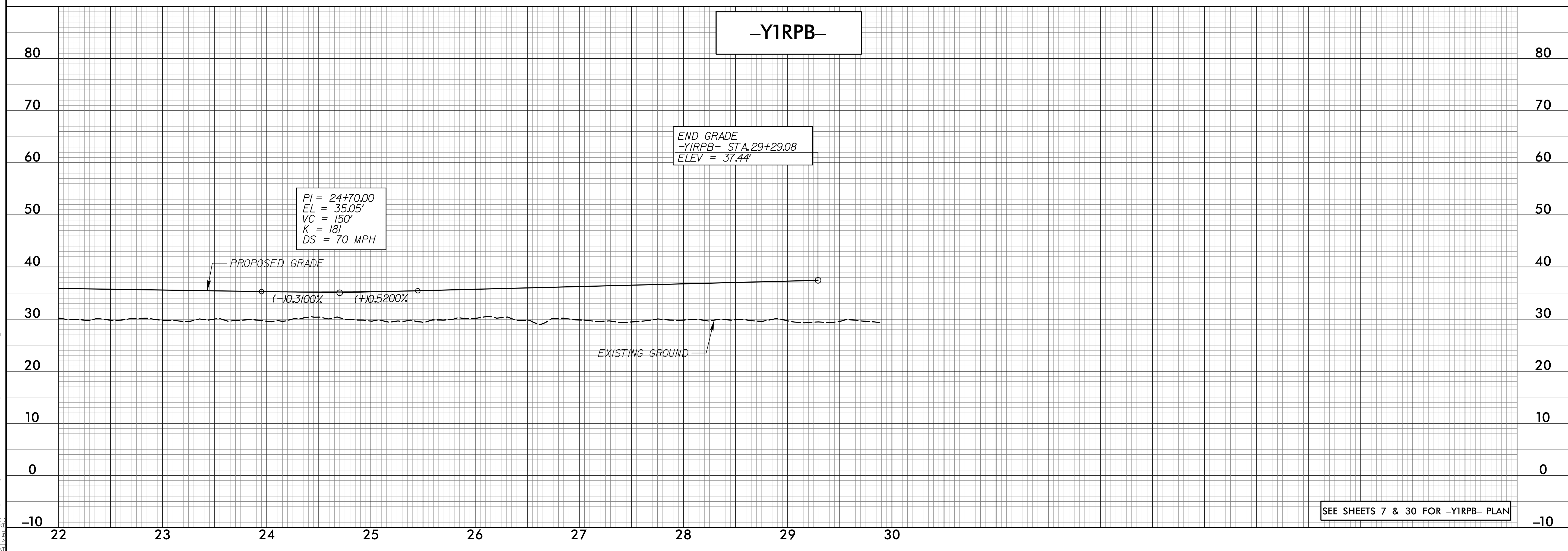
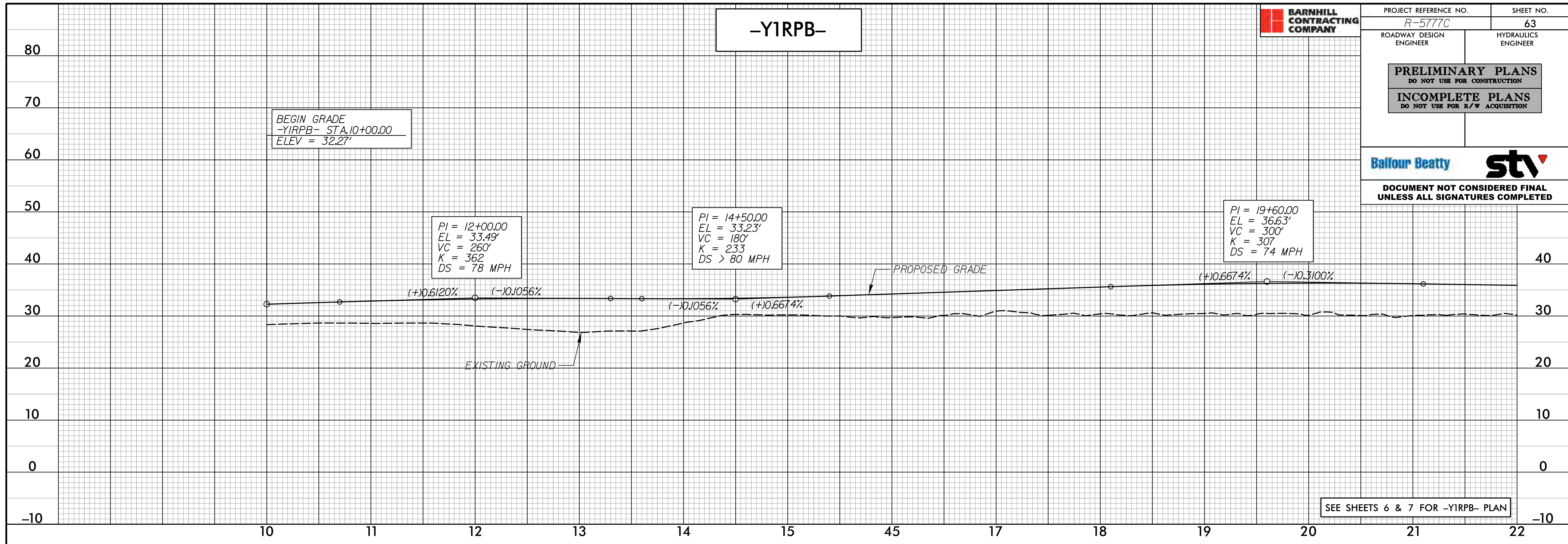
4/12/2023
 C:\Users\pcoj\OneDrive\Documents\Projects\PSHR-5777C-rdy-esh62-PFL.dgn

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



4/12/2023
 C:\Users\j\OneDrive\Work\Projects\PSHR-5777C-rdy-esh63-PFL.dgn

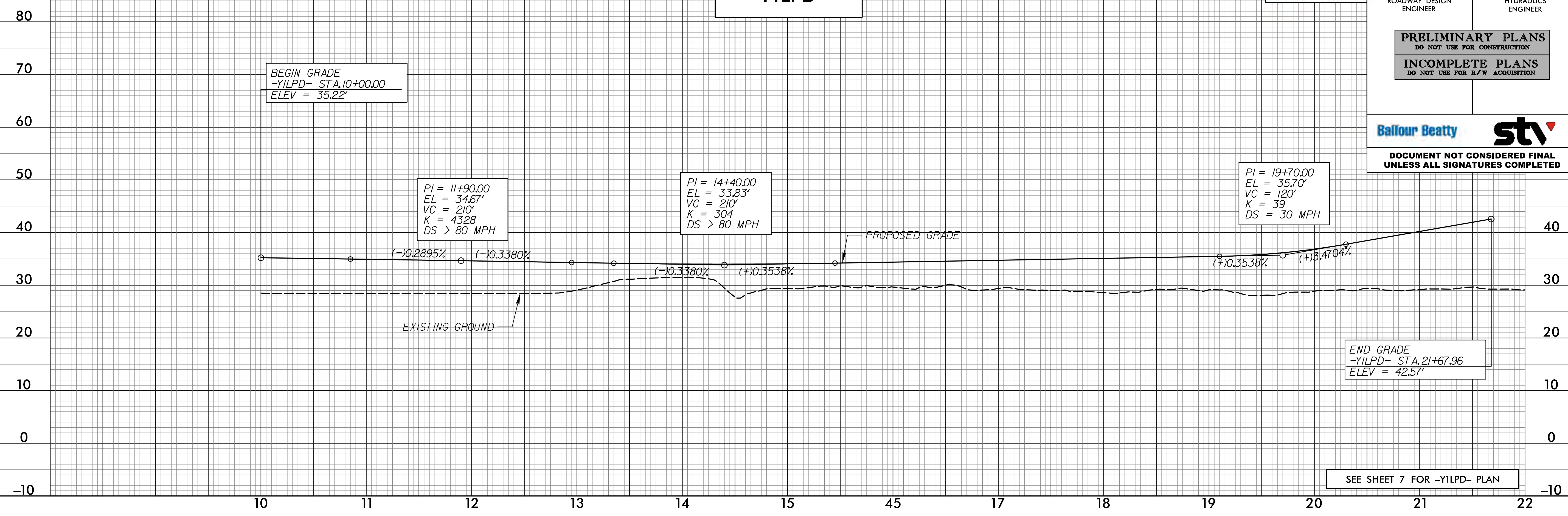
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

-YILPD-



SEE SHEET 7 FOR -YILPD- PLAN

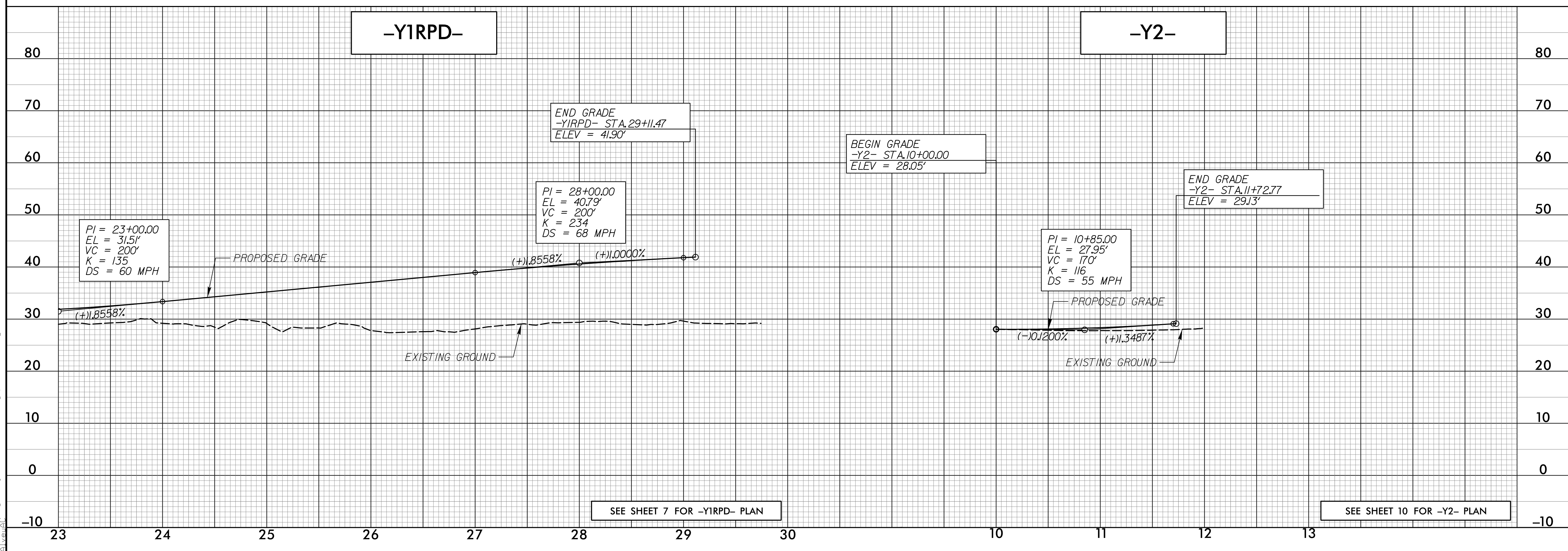
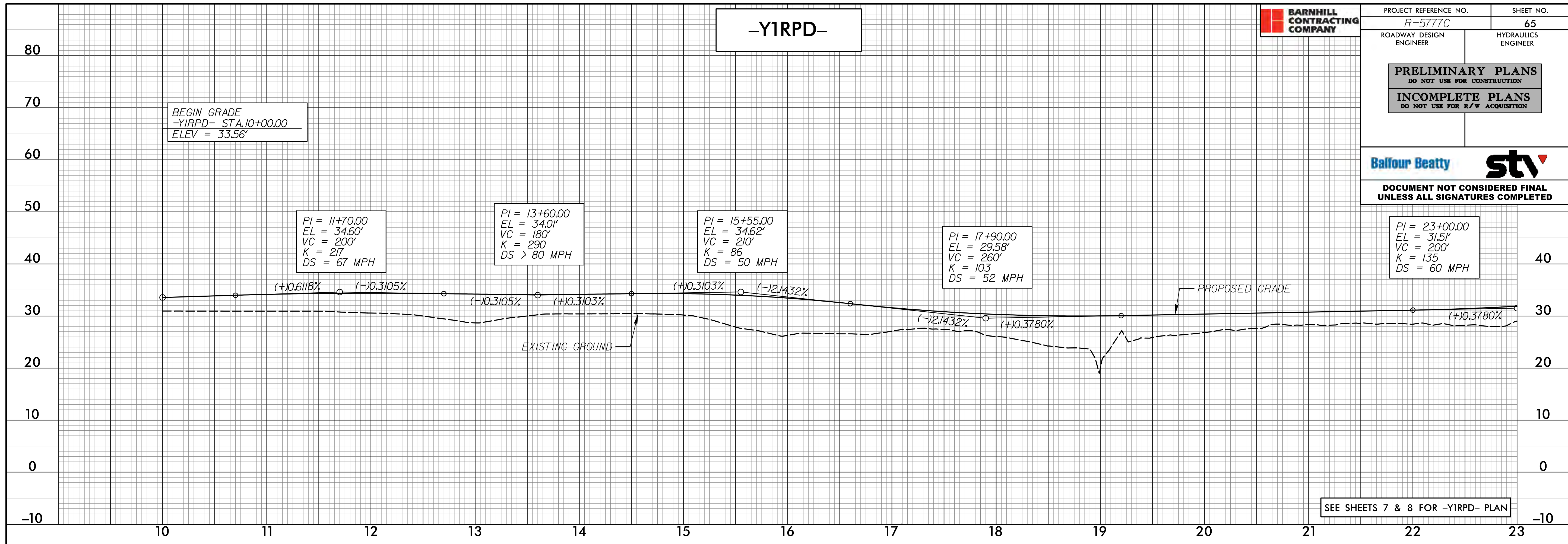
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PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



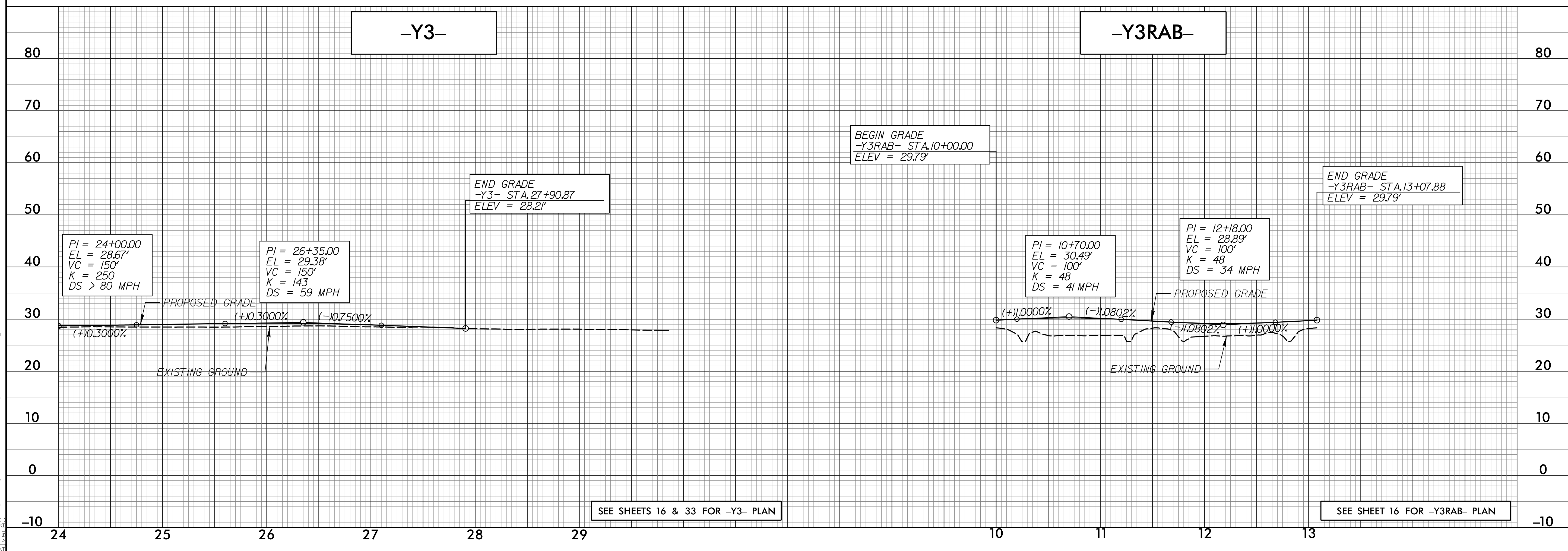
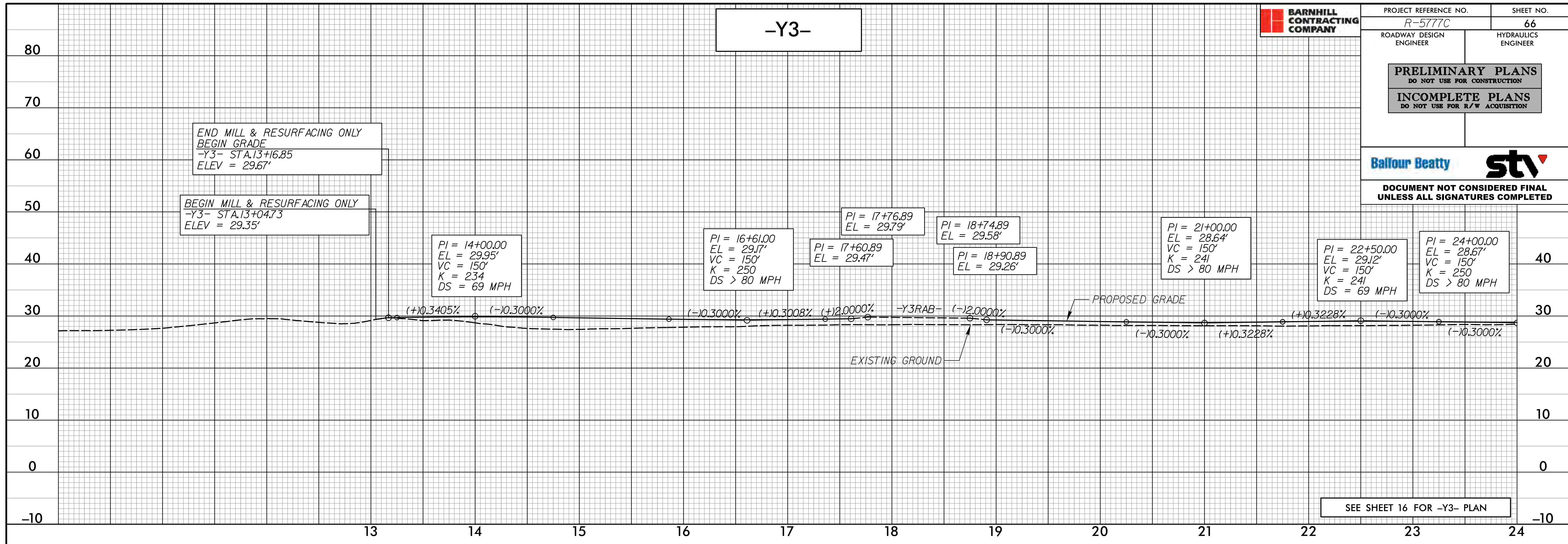
4/12/2023
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PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



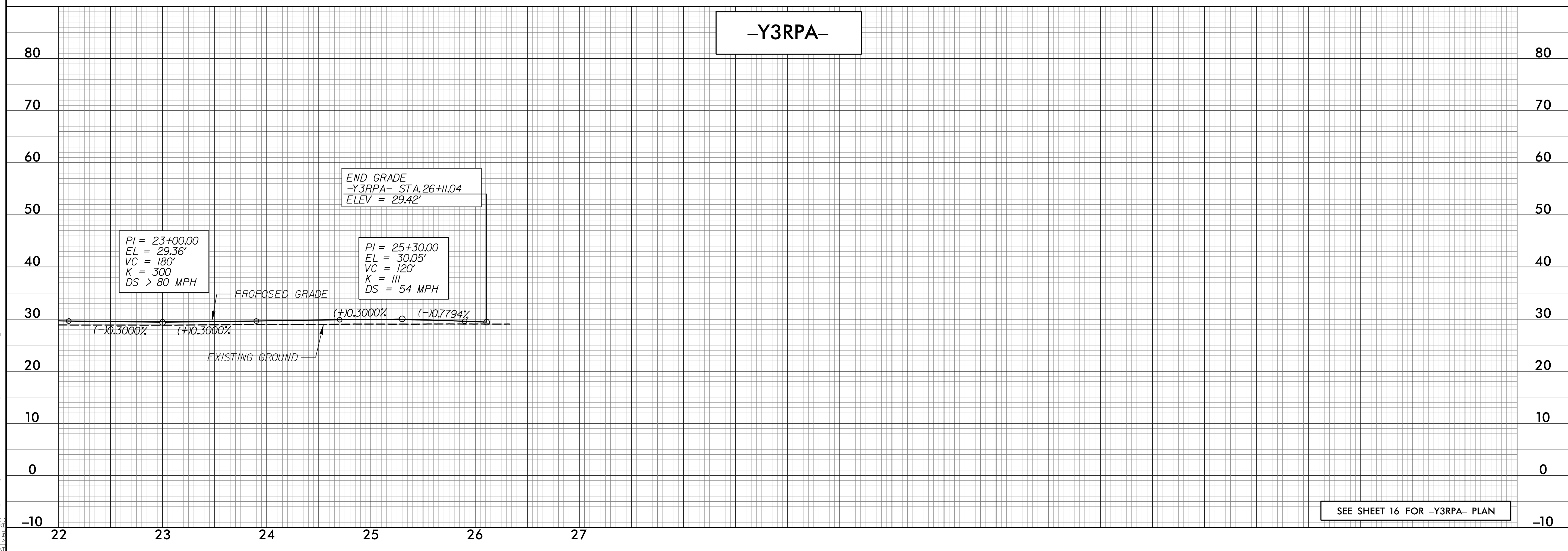
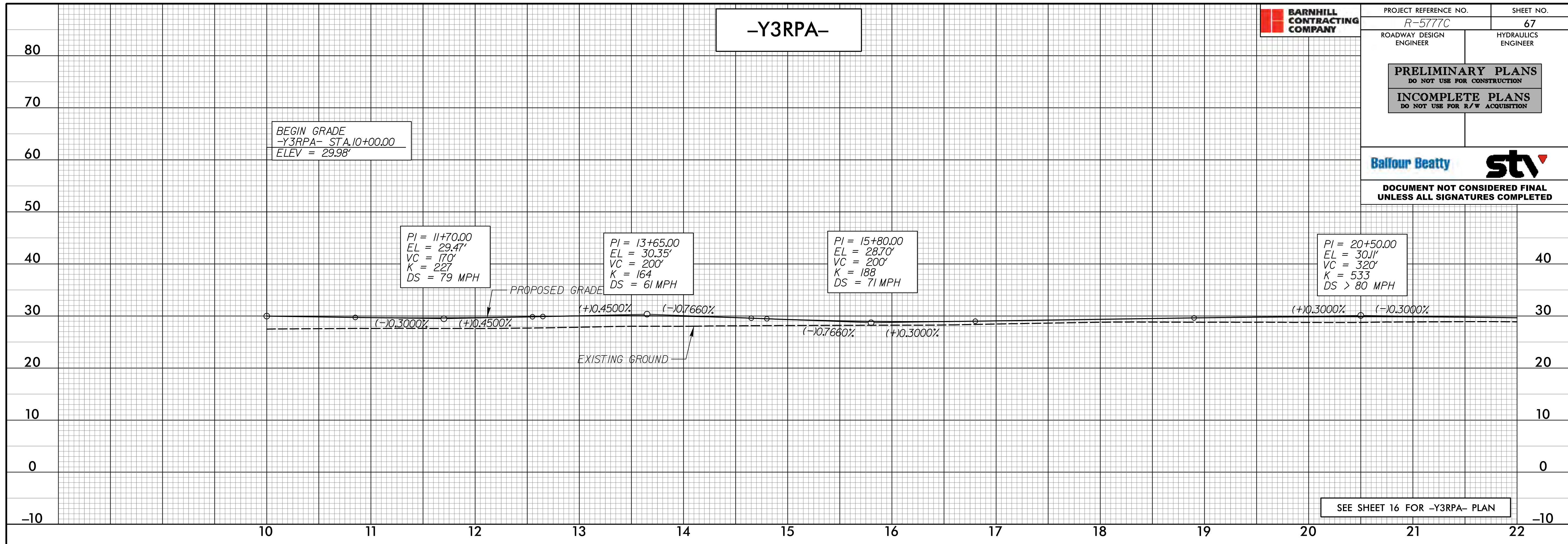
4/12/2023
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PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



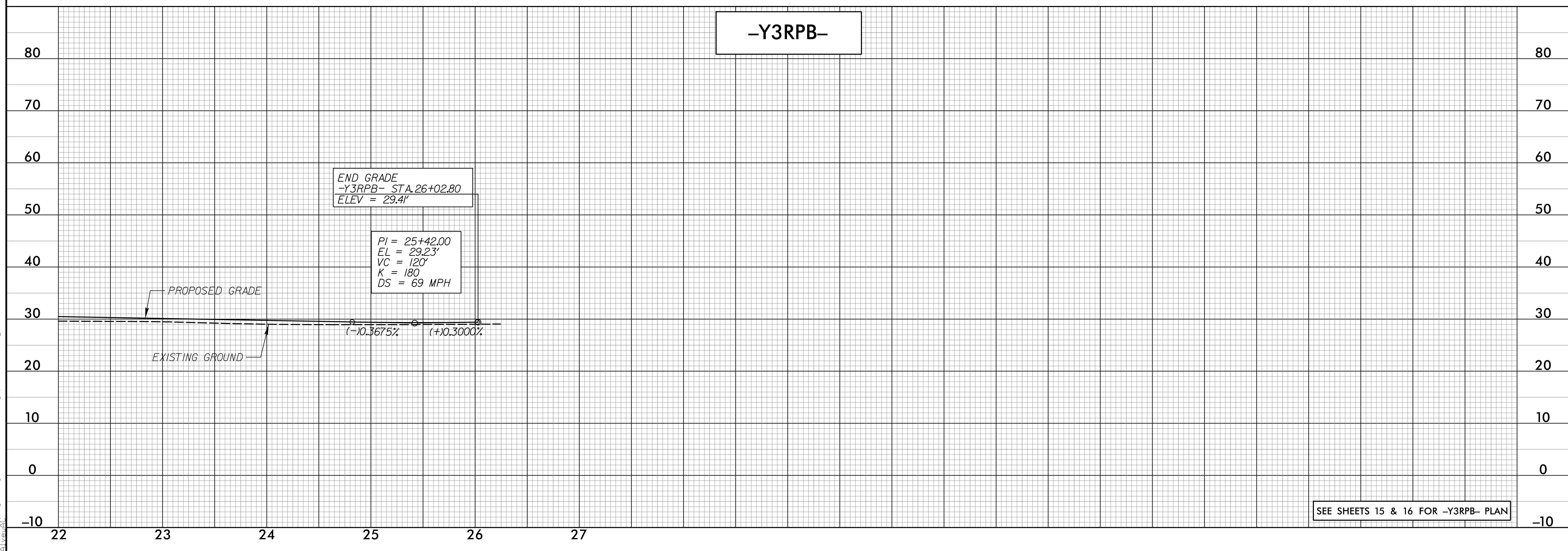
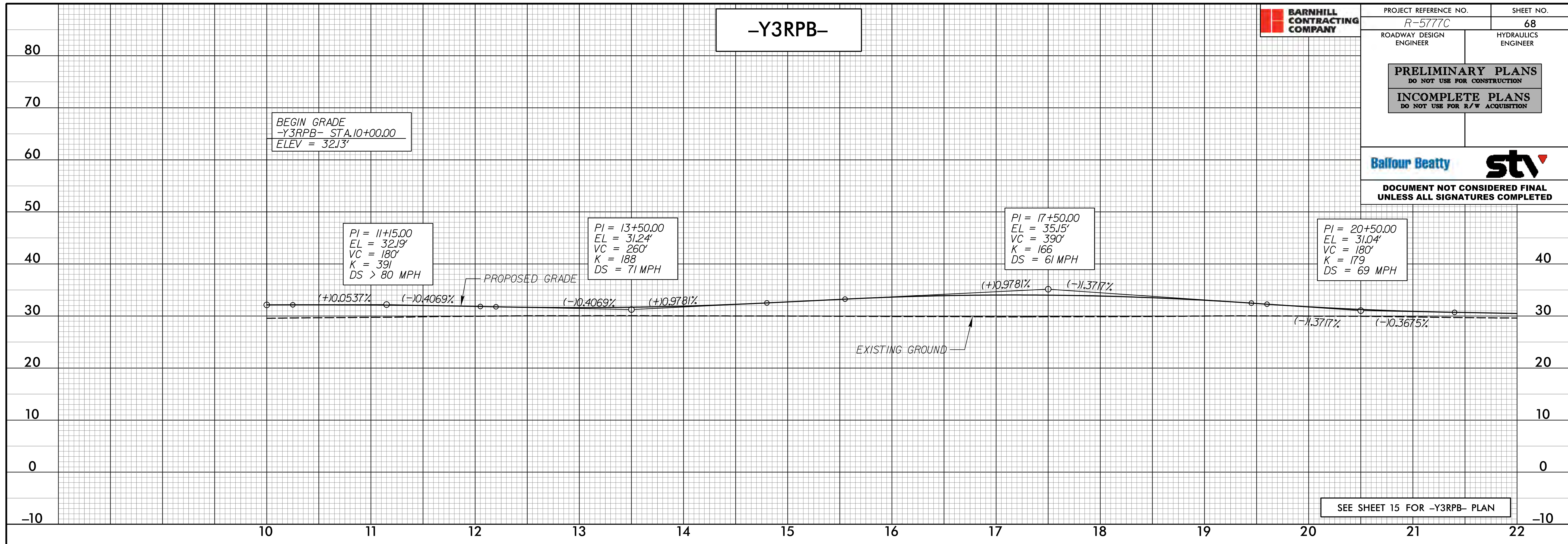
4/12/2023
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PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



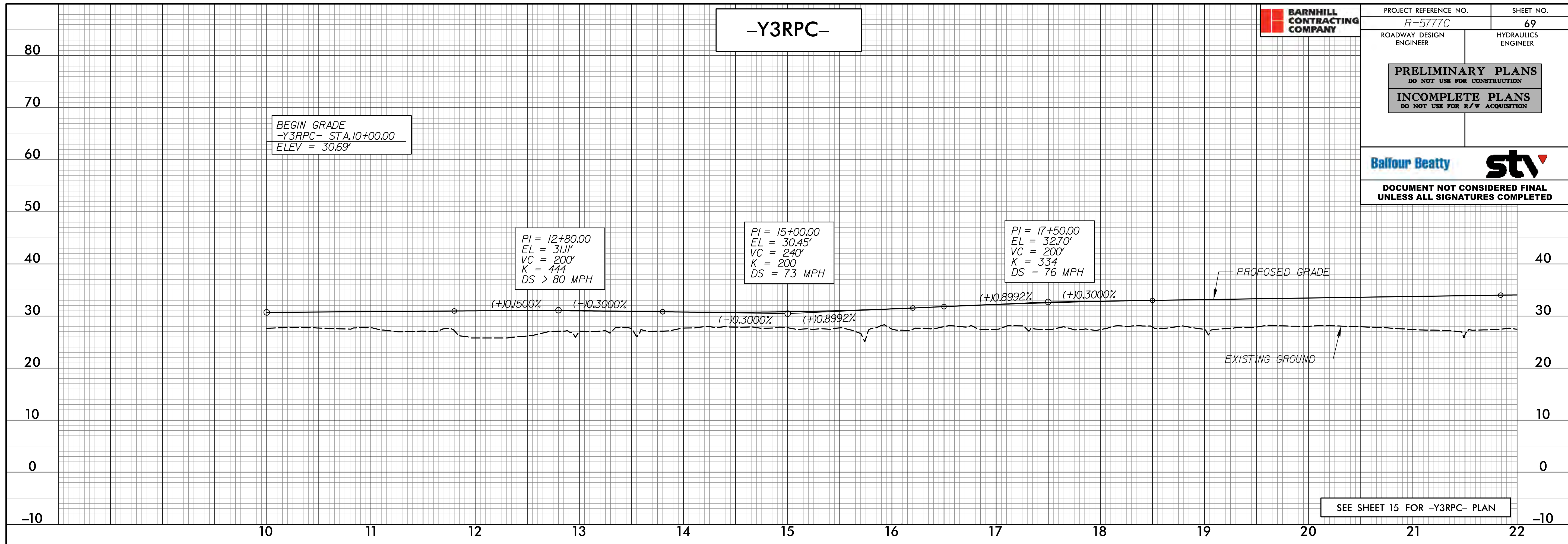
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PRELIMINARY PLANS
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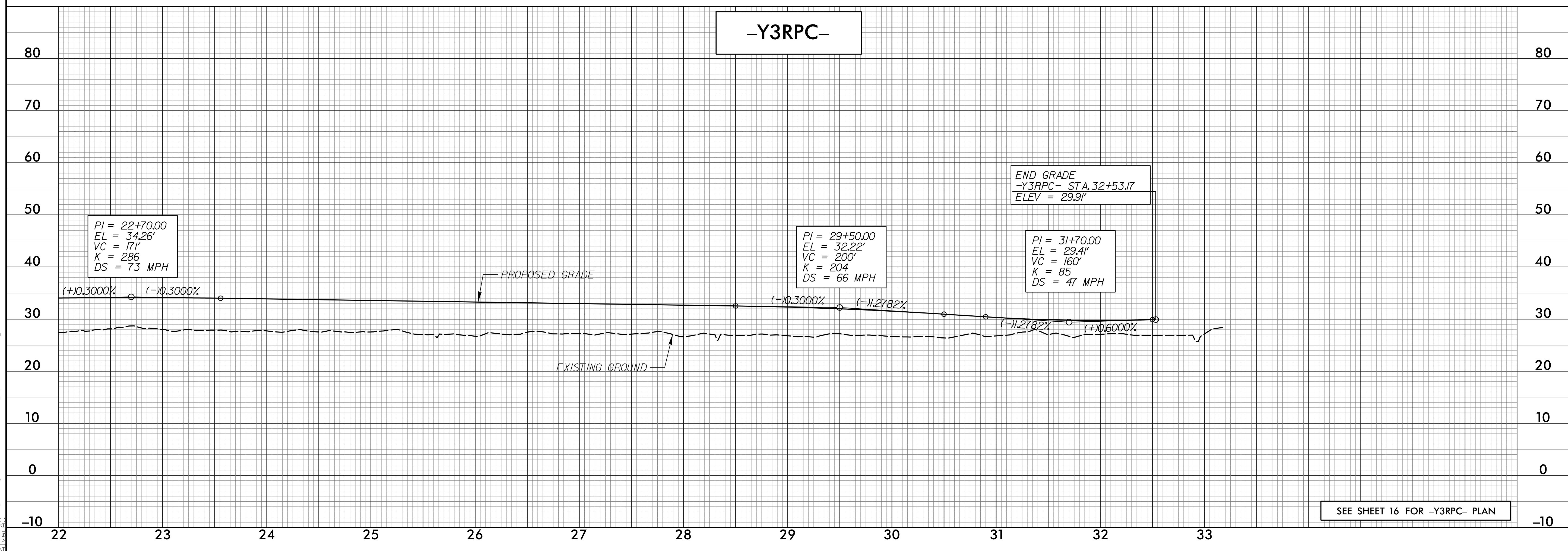
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



SEE SHEET 15 FOR -Y3RPC- PLAN



SEE SHEET 16 FOR -Y3RPC- PLAN

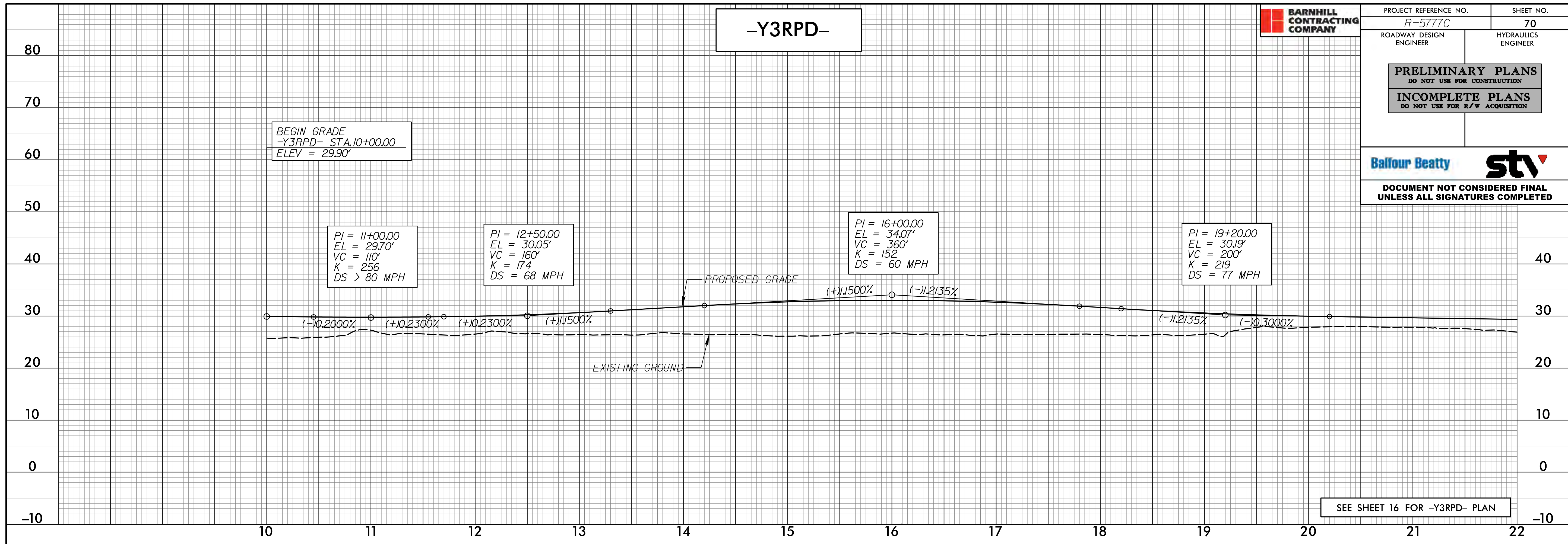
4/12/2023
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PRELIMINARY PLANS
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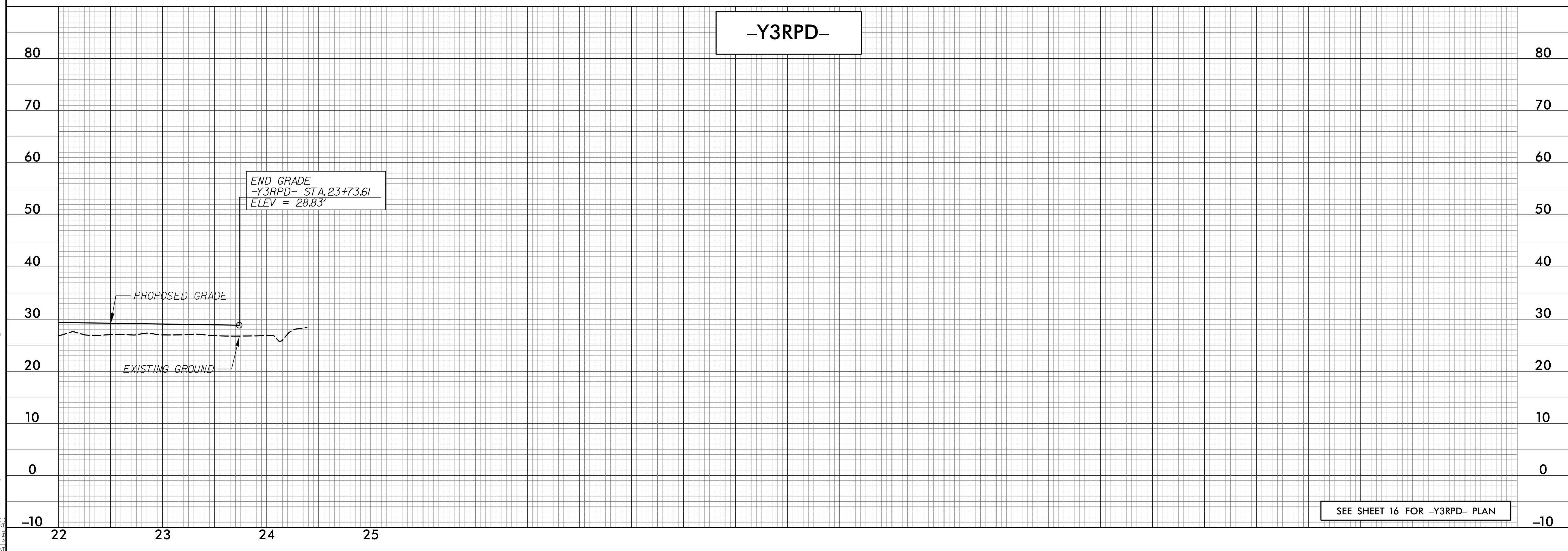
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



SEE SHEET 16 FOR -Y3RPD- PLAN



SEE SHEET 16 FOR -Y3RPD- PLAN

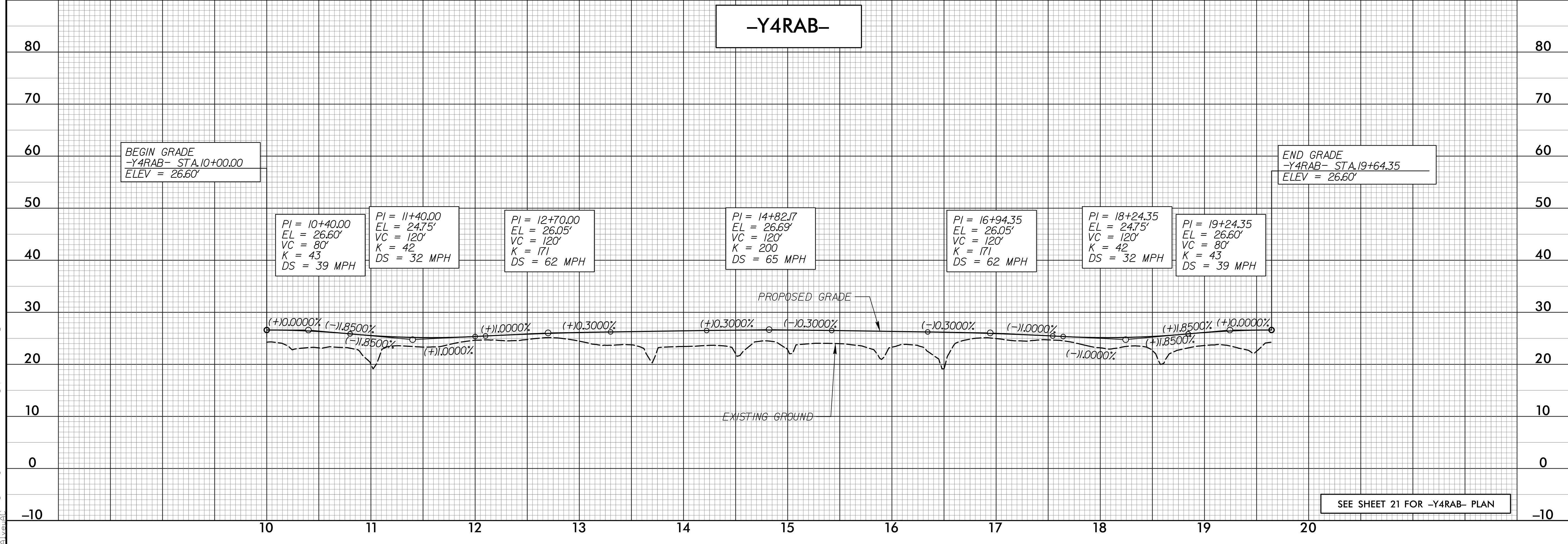
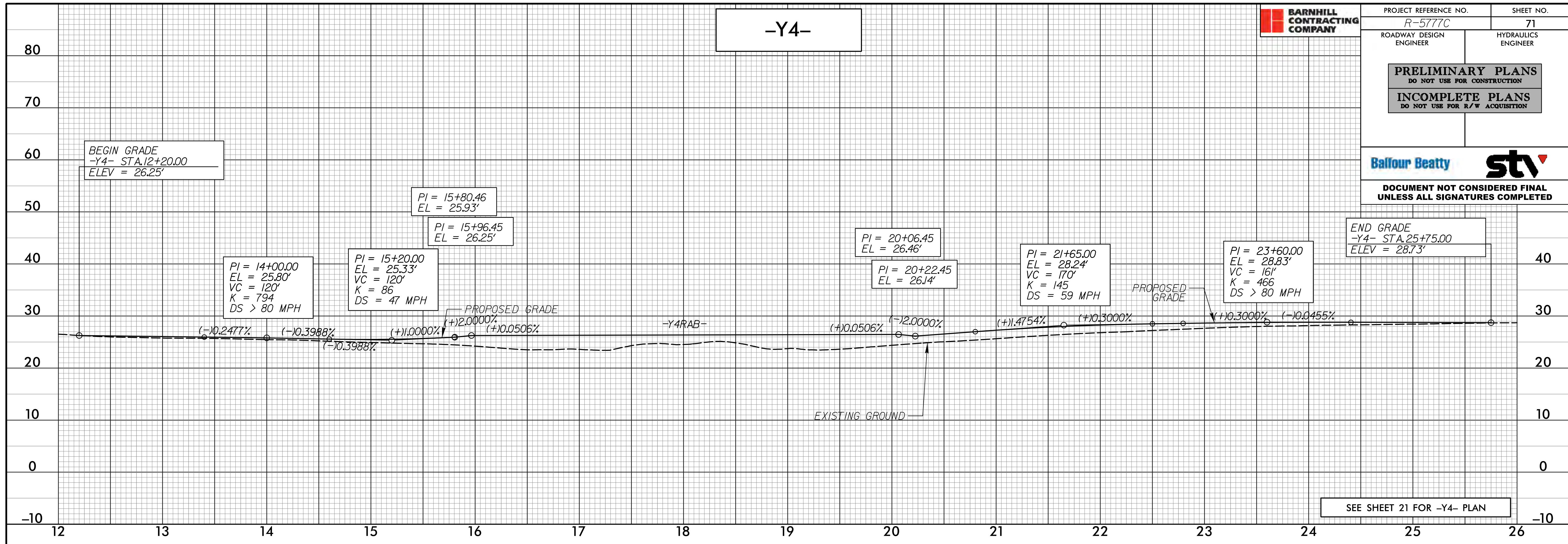
4/12/2023
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PRELIMINARY PLANS
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INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION



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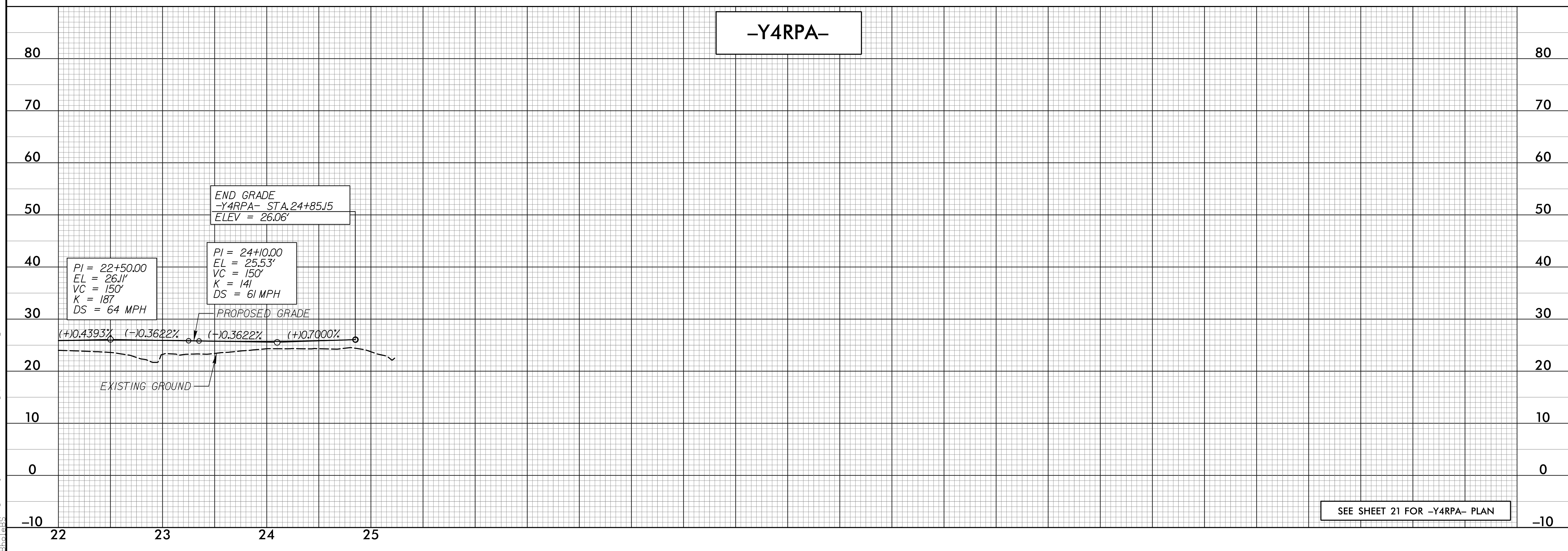
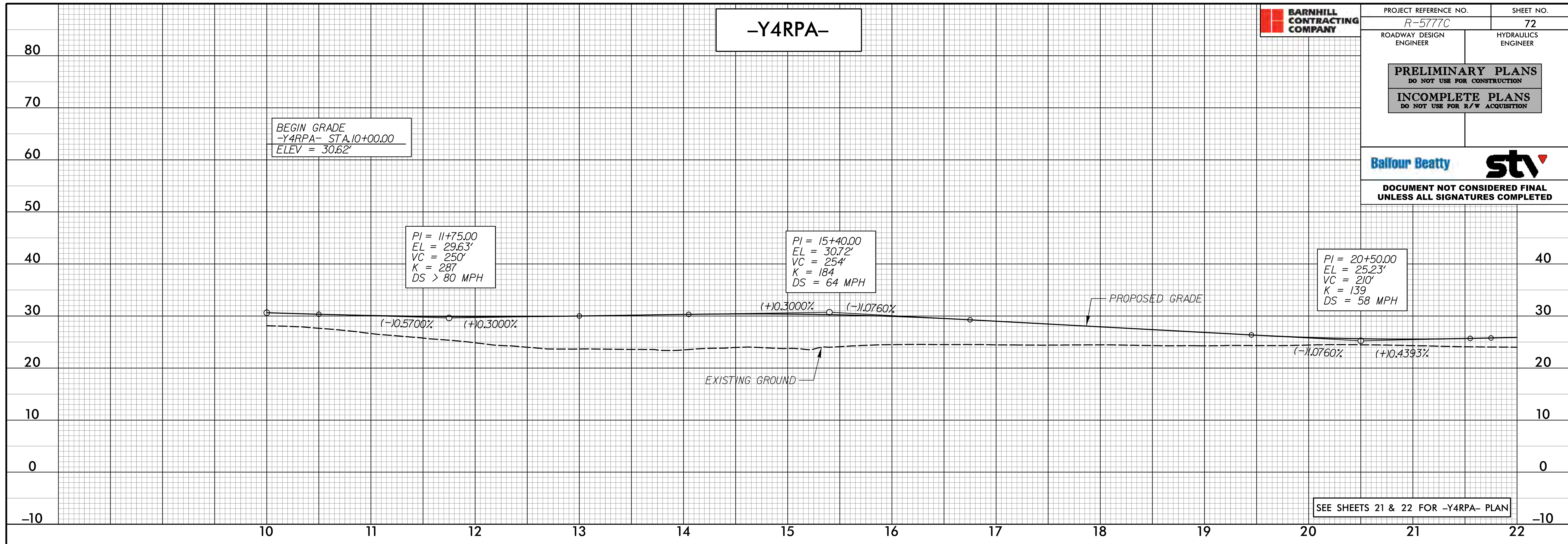
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DO NOT USE FOR R/W ACQUISITION



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

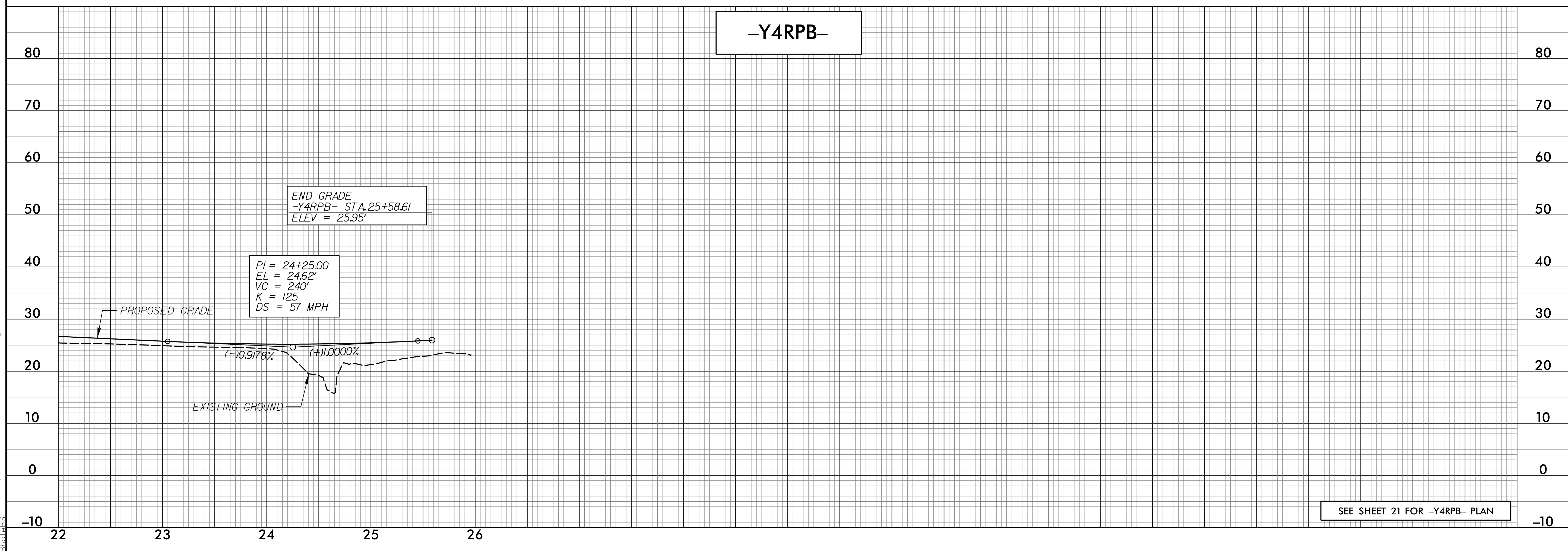
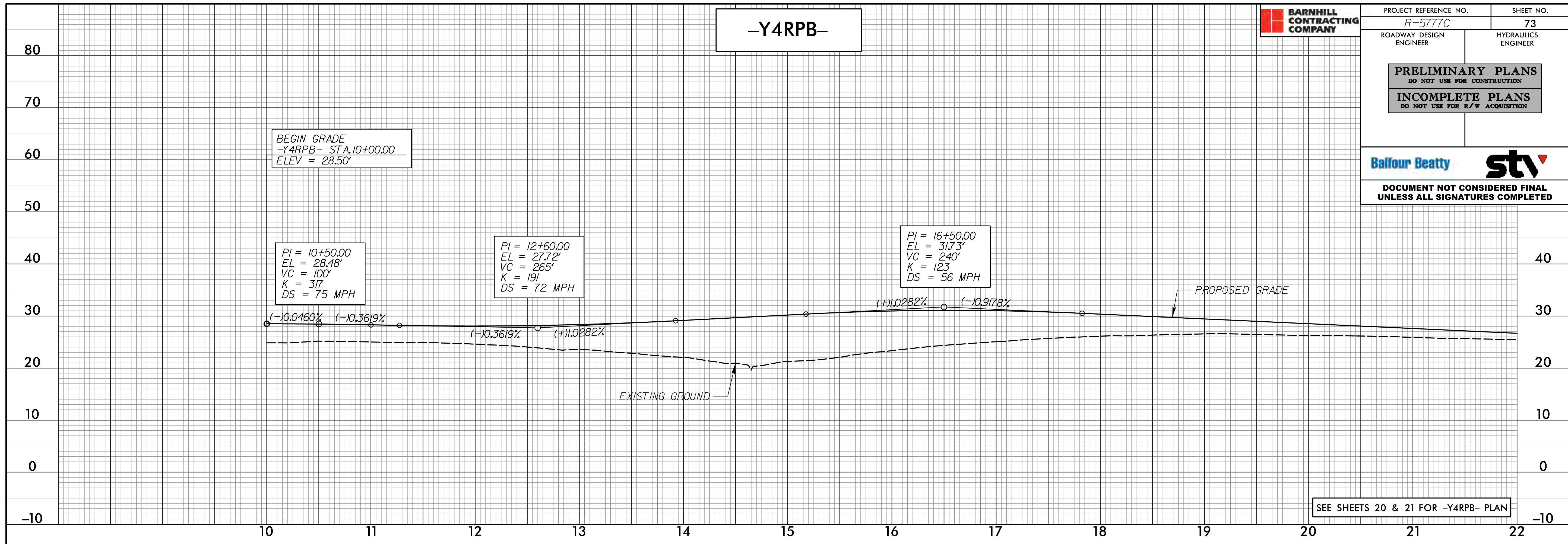


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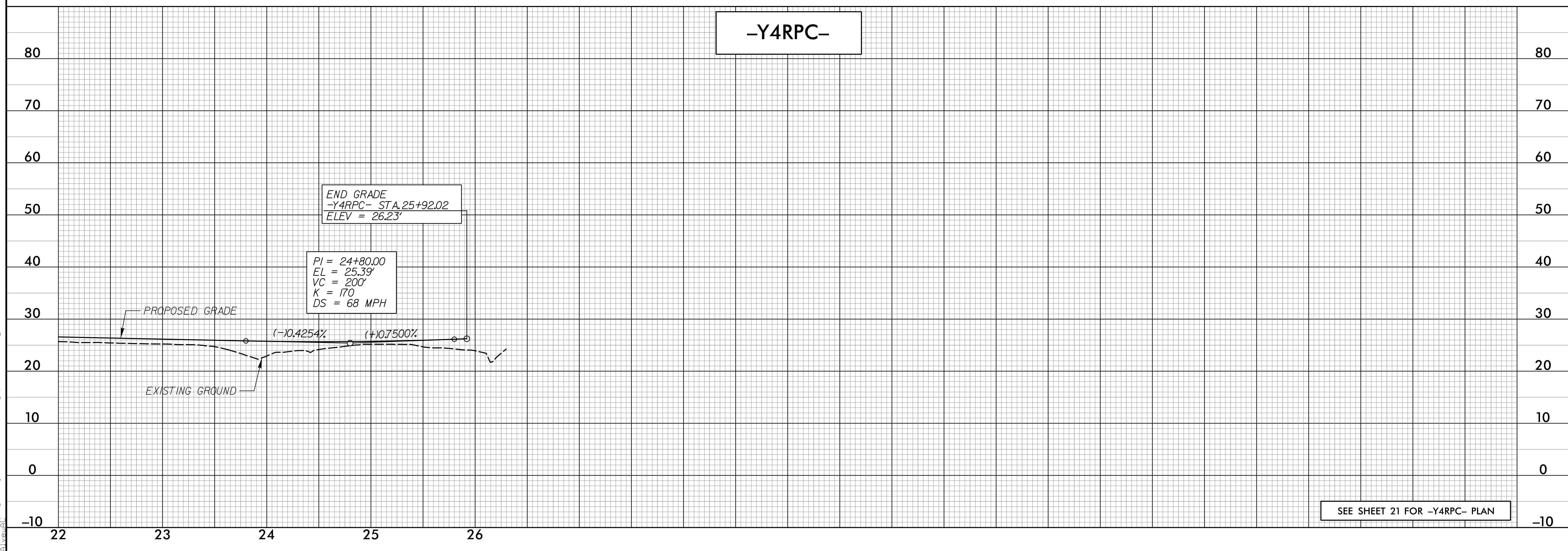
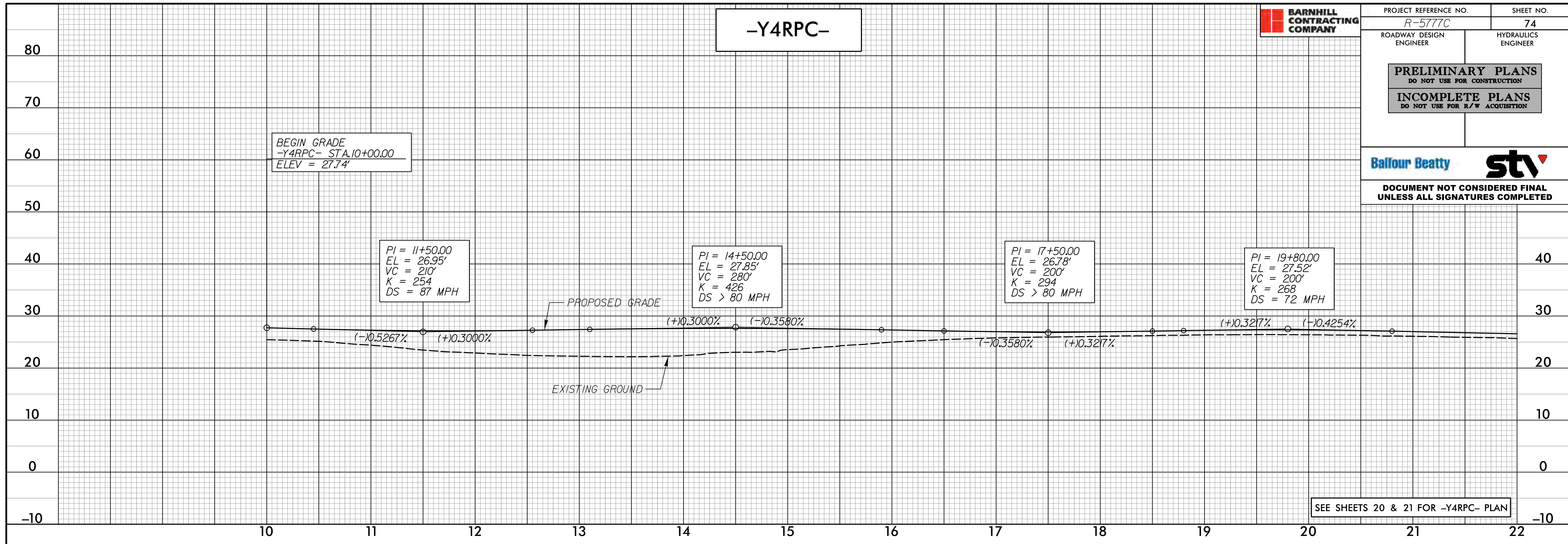
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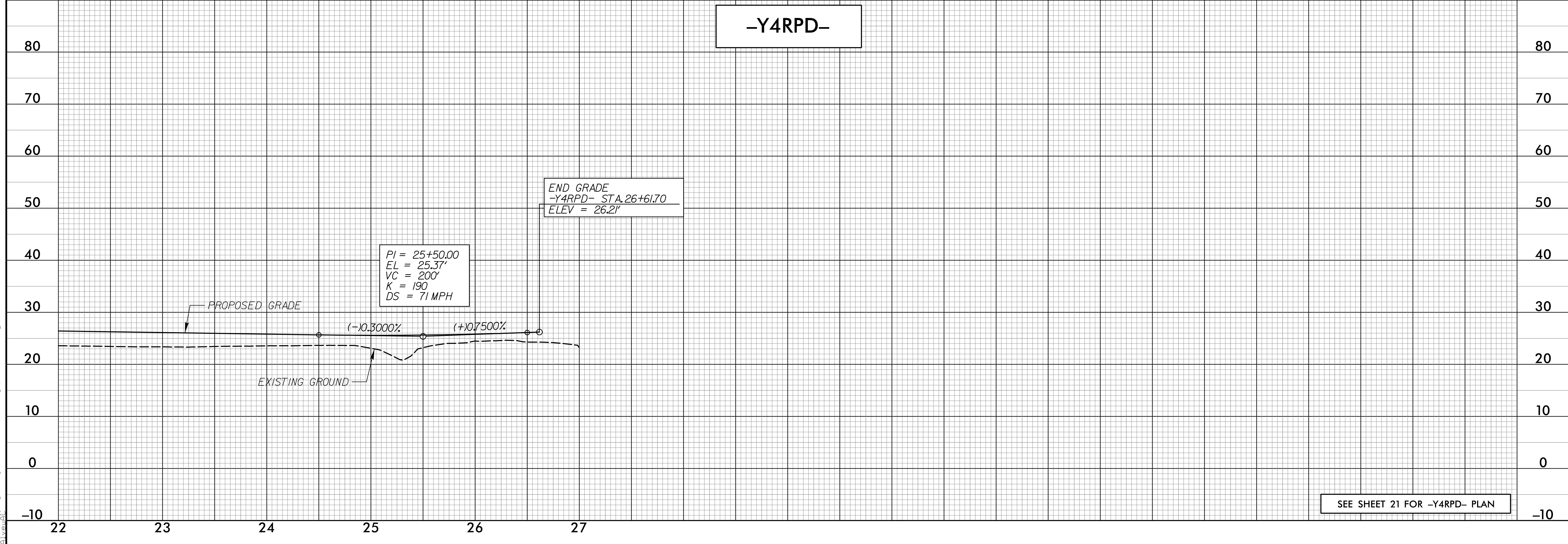
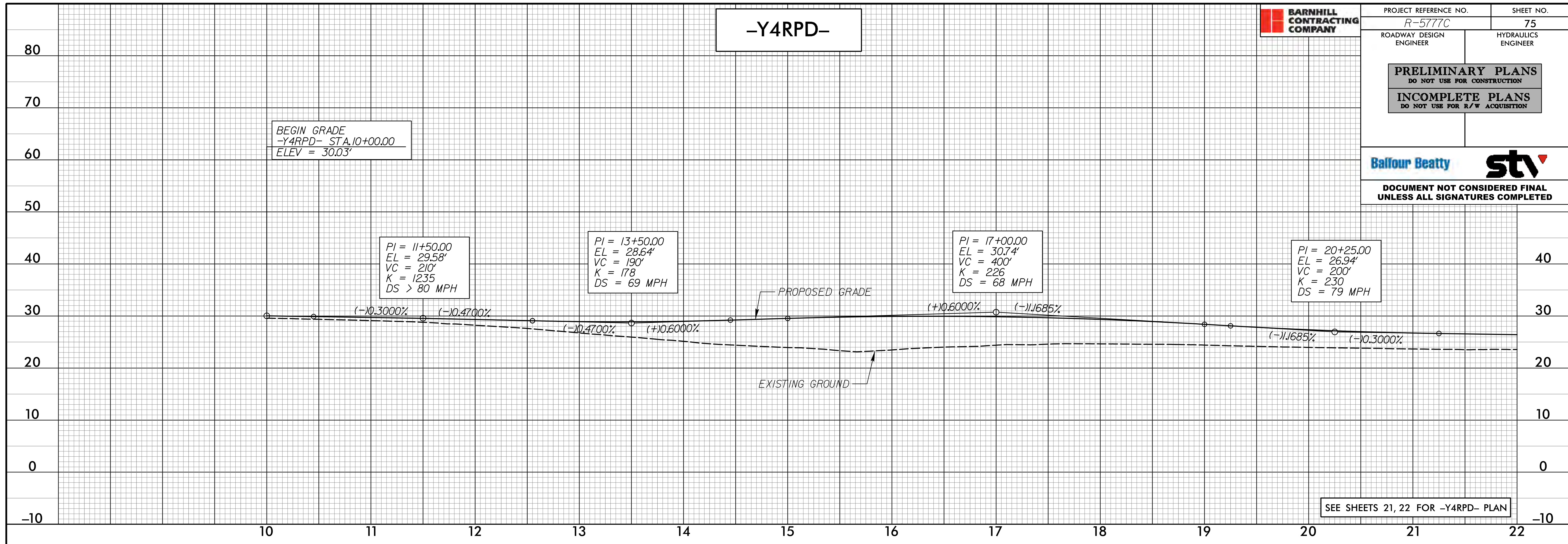
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INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



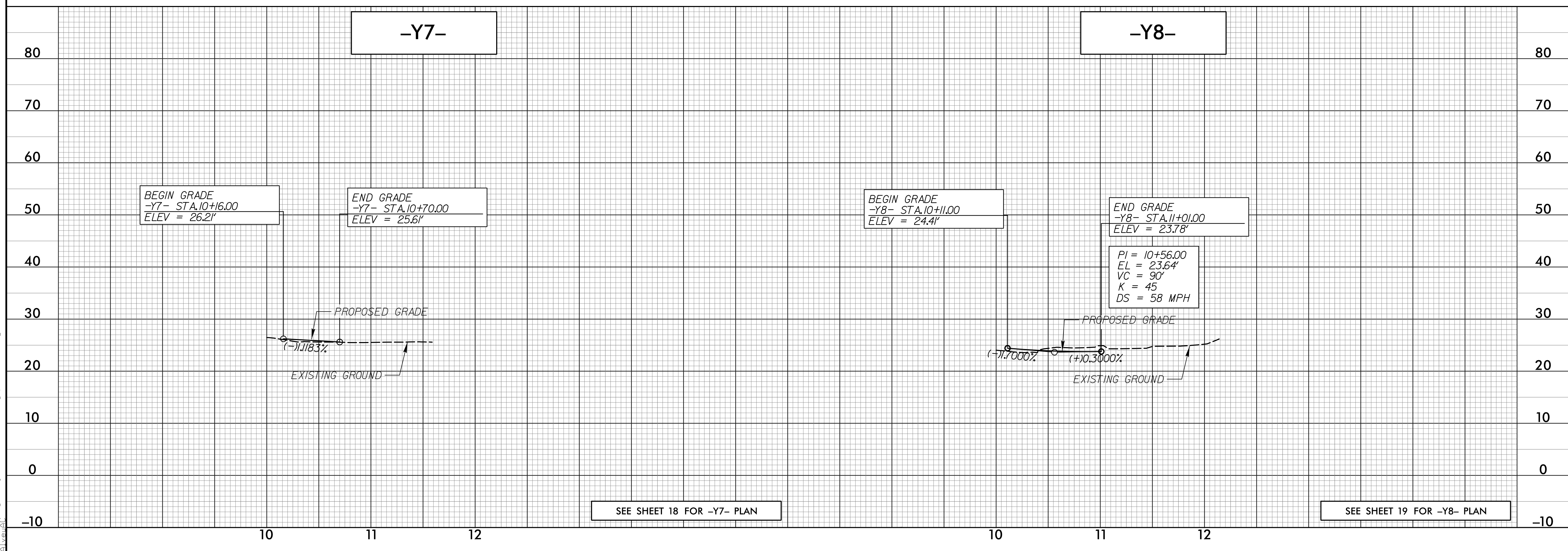
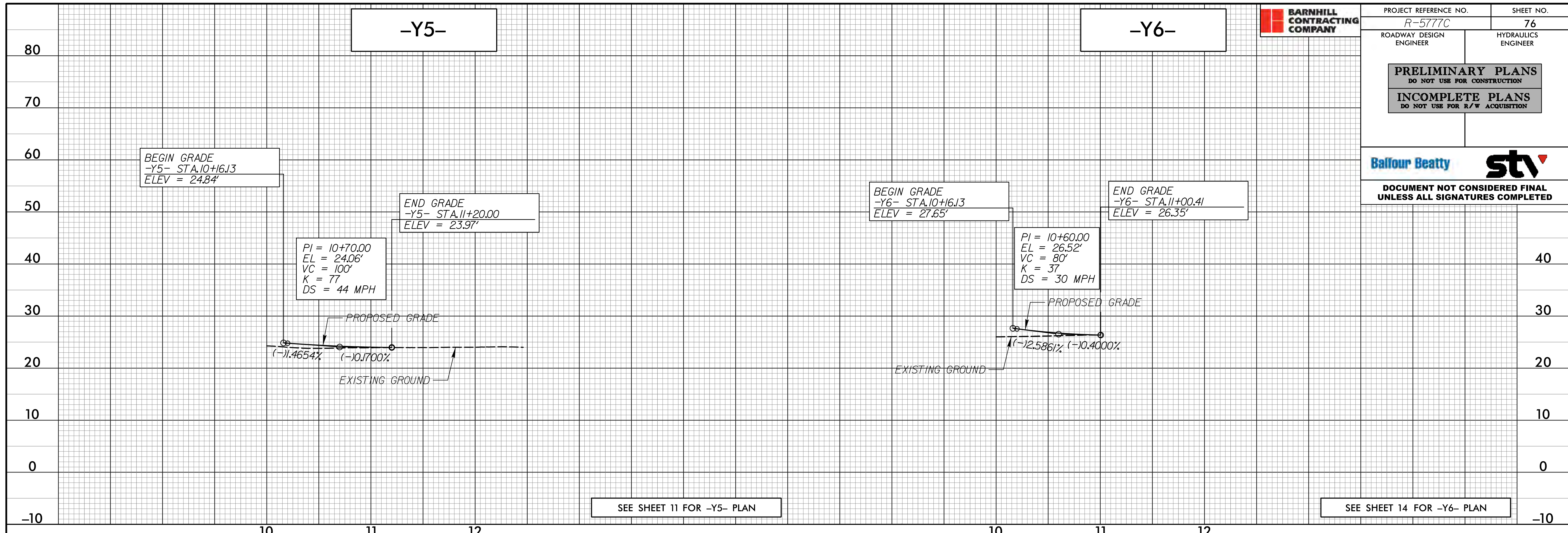
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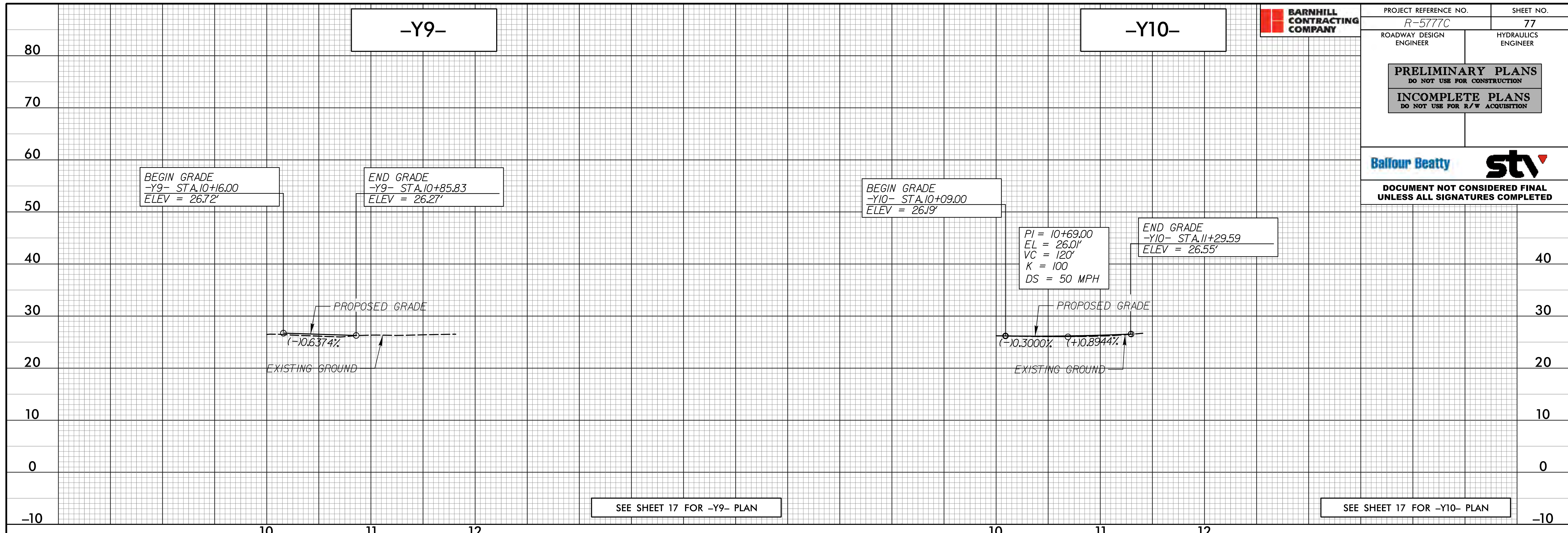
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INCOMPLETE PLANS
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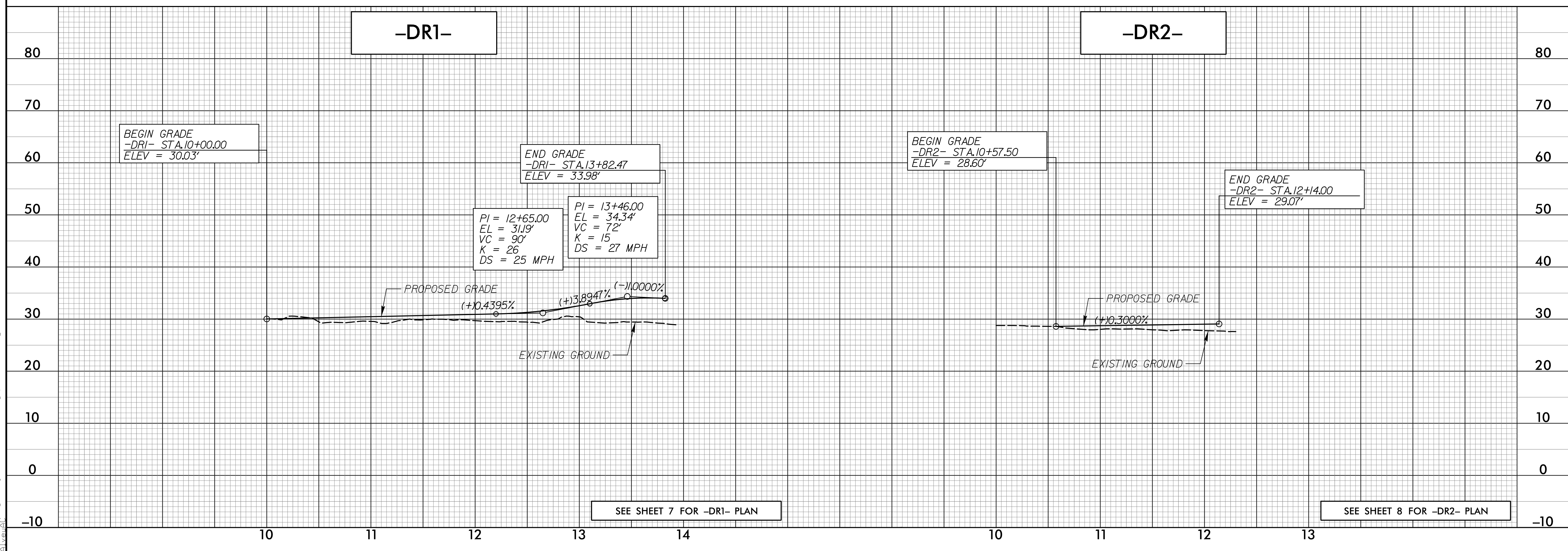


DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



SEE SHEET 17 FOR -Y9- PLAN

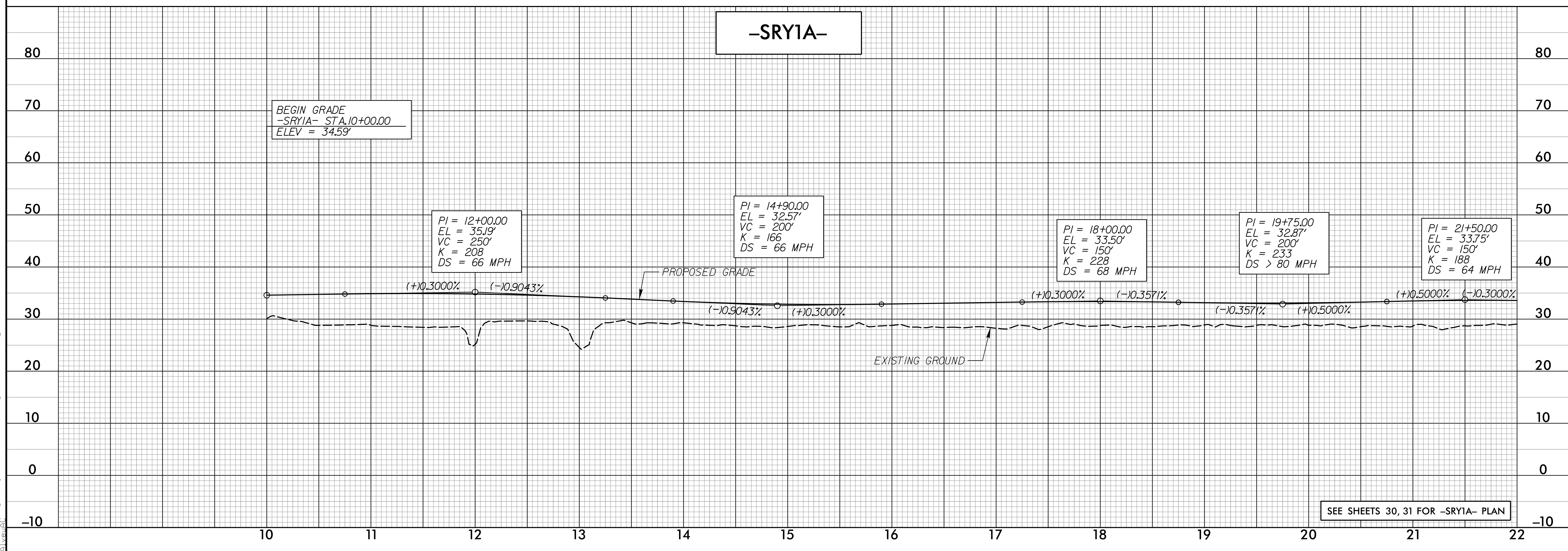
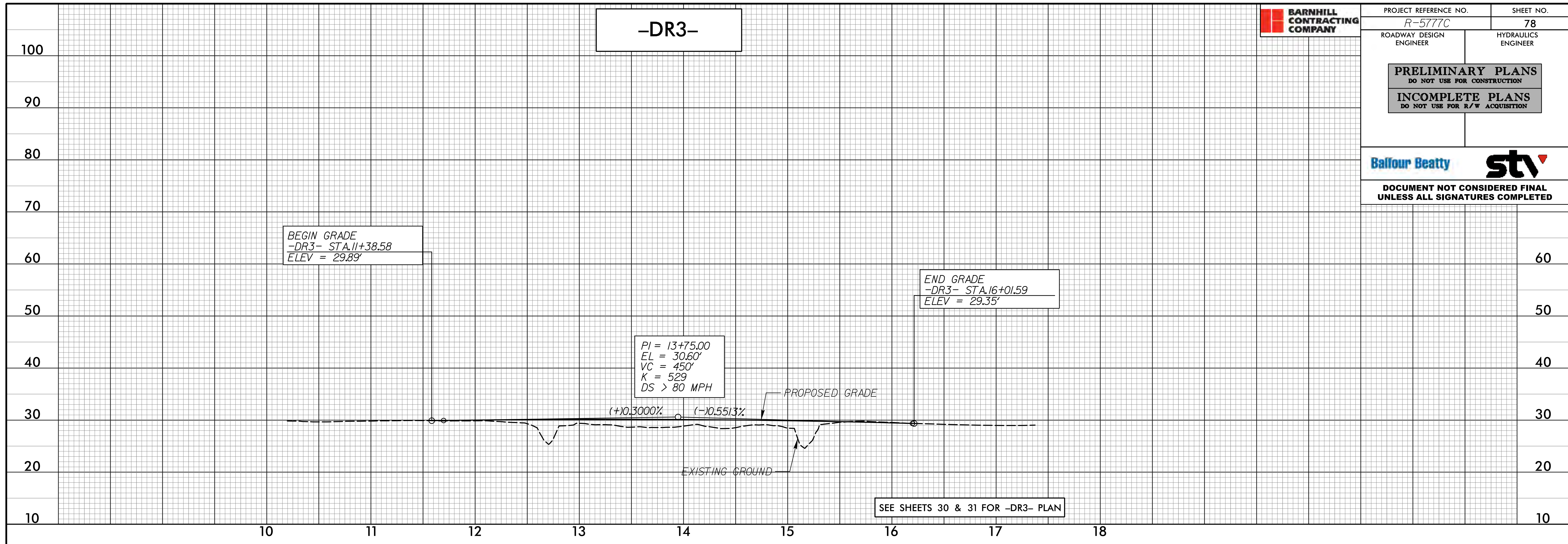
SEE SHEET 17 FOR -Y10- PLAN



SEE SHEET 7 FOR -DR1- PLAN

SEE SHEET 8 FOR -DR2- PLAN

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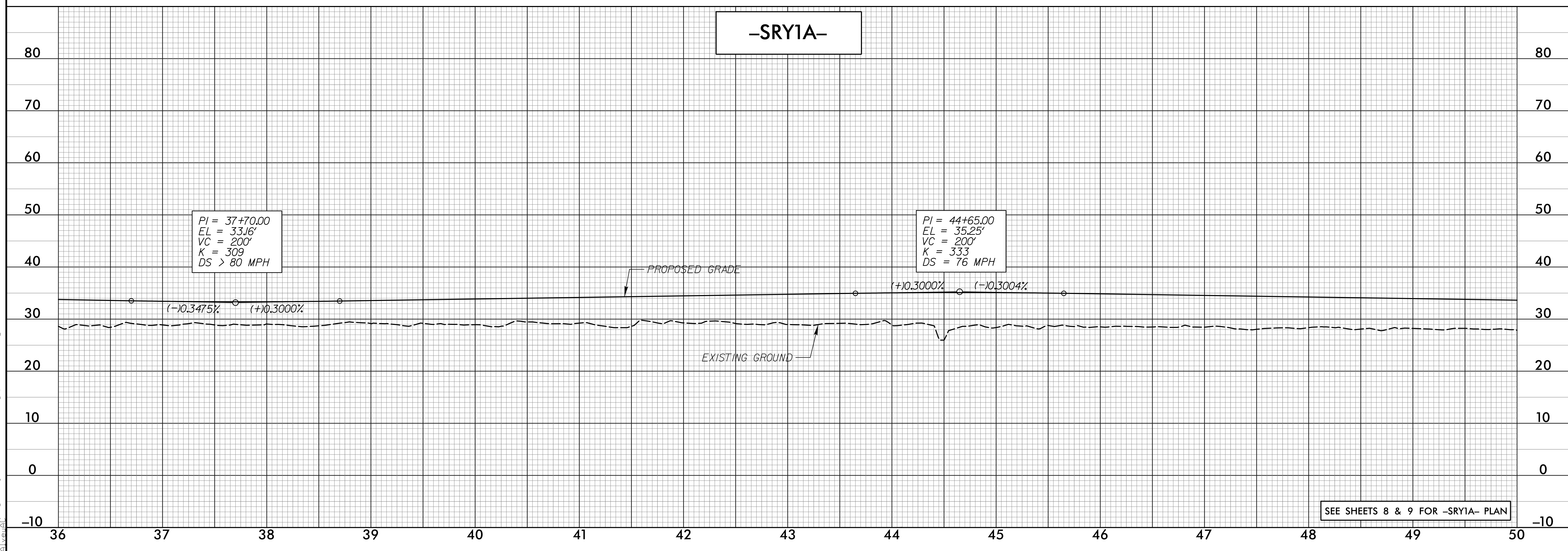
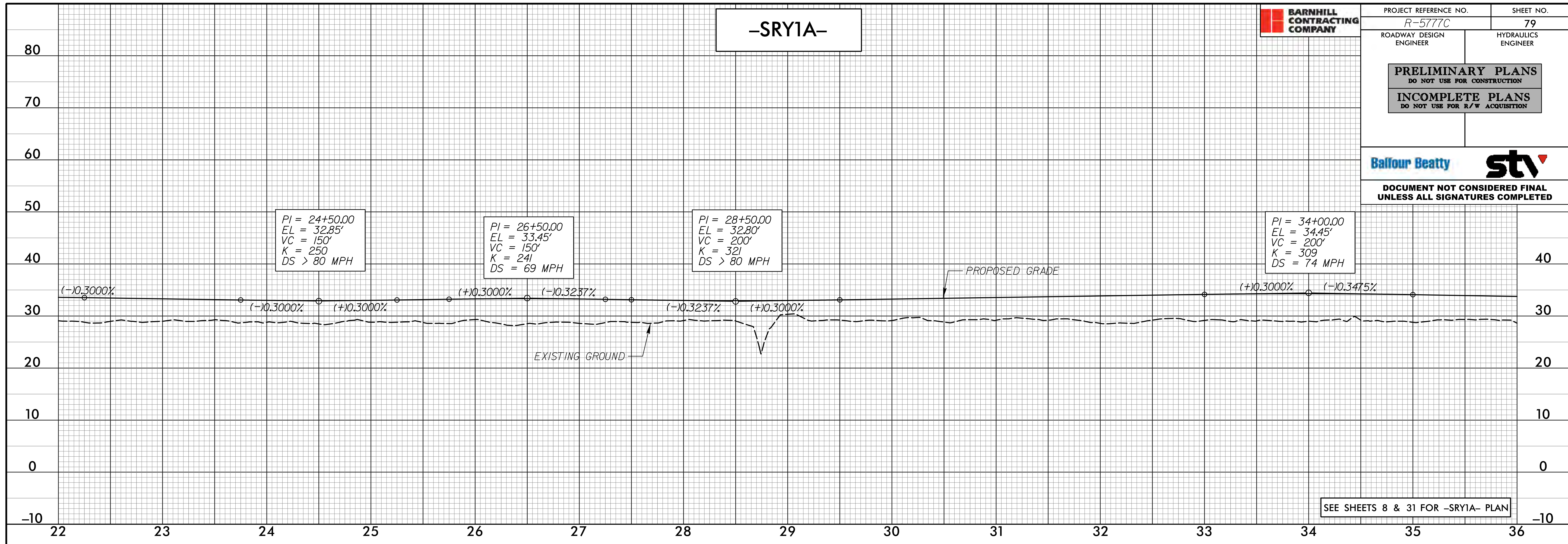
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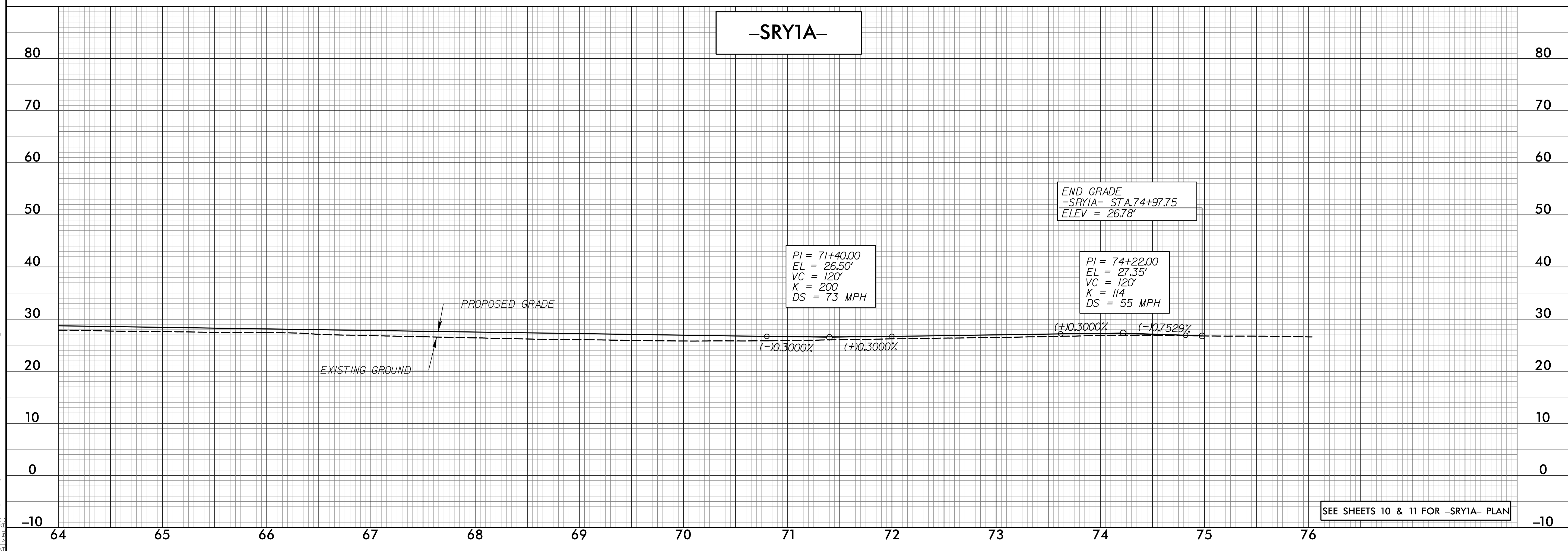
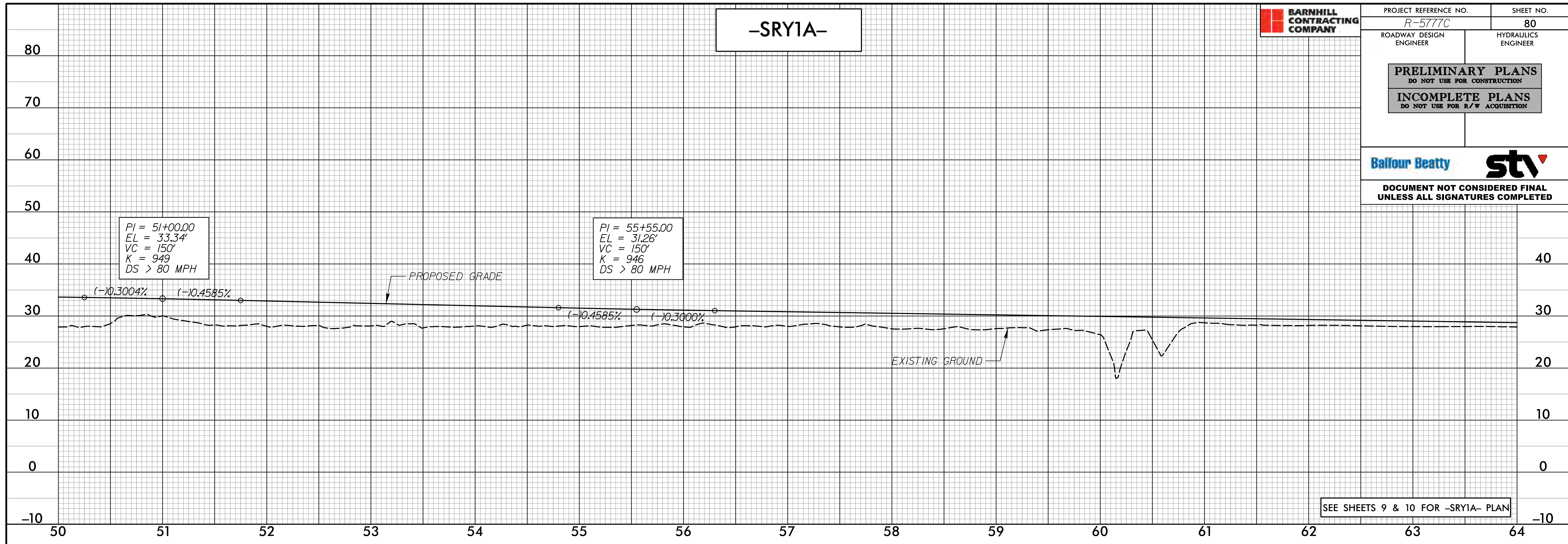
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PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

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4/12/2023
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PRELIMINARY PLANS
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-SRY1B-

PRELIMINARY CULVERT HYDRAULIC DATA

DESIGN DISCHARGE	= 310	CFS
DESIGN FREQUENCY	= 25	YRS
DESIGN HW ELEVATION	= 221	FT
BASE DISCHARGE	= 400	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 235	FT
OVERTOPPING DISCHARGE	= 510	CFS
OVERTOPPING FREQUENCY	= 500±	YRS
OVERTOPPING ELEVATION	= 308	FT

BEGIN GRADE
-SRY1B- STA.11+58.00
ELEV = 28.27'

PI = 21+20.00
EL = 26.69'
VC = 150'
K = 847
DS > 80 MPH

SEE SHEETS 4 & 5 FOR -SRY1B- PLAN

-SRY1B-

PI = 26+00.00
EL = 26.76'
VC = 150'
K = 266
DS > 80 MPH

PI = 31+62.00
EL = 30.01'
VC = 150'
K = 249
DS > 80 MPH

PI = 34+20.00
EL = 33.05'
VC = 120'
K = 185
DS = 64 MPH

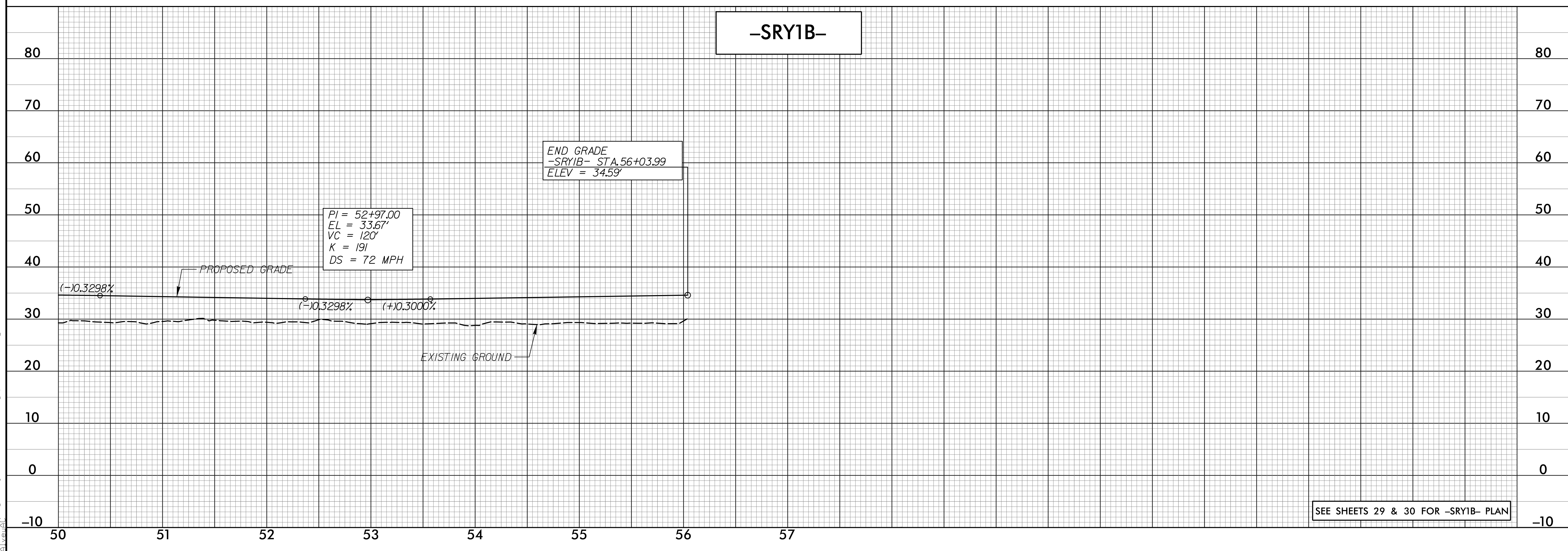
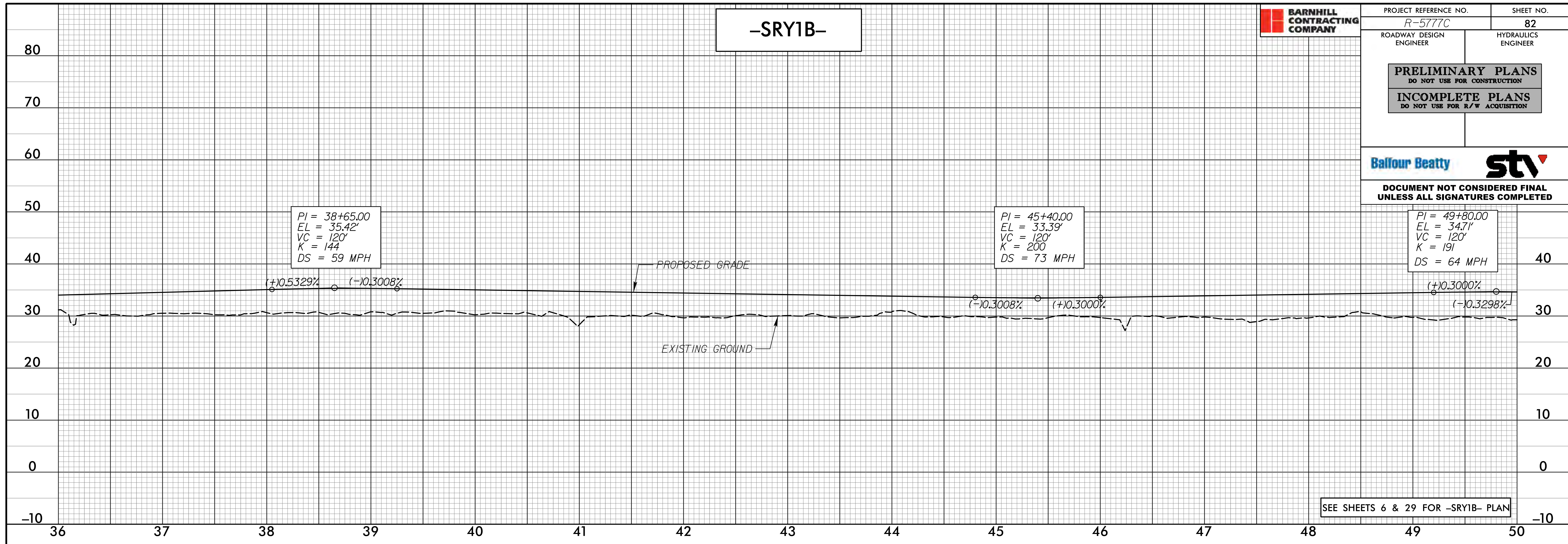
SEE SHEETS 5 & 6 FOR -SRY1B- PLAN

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION



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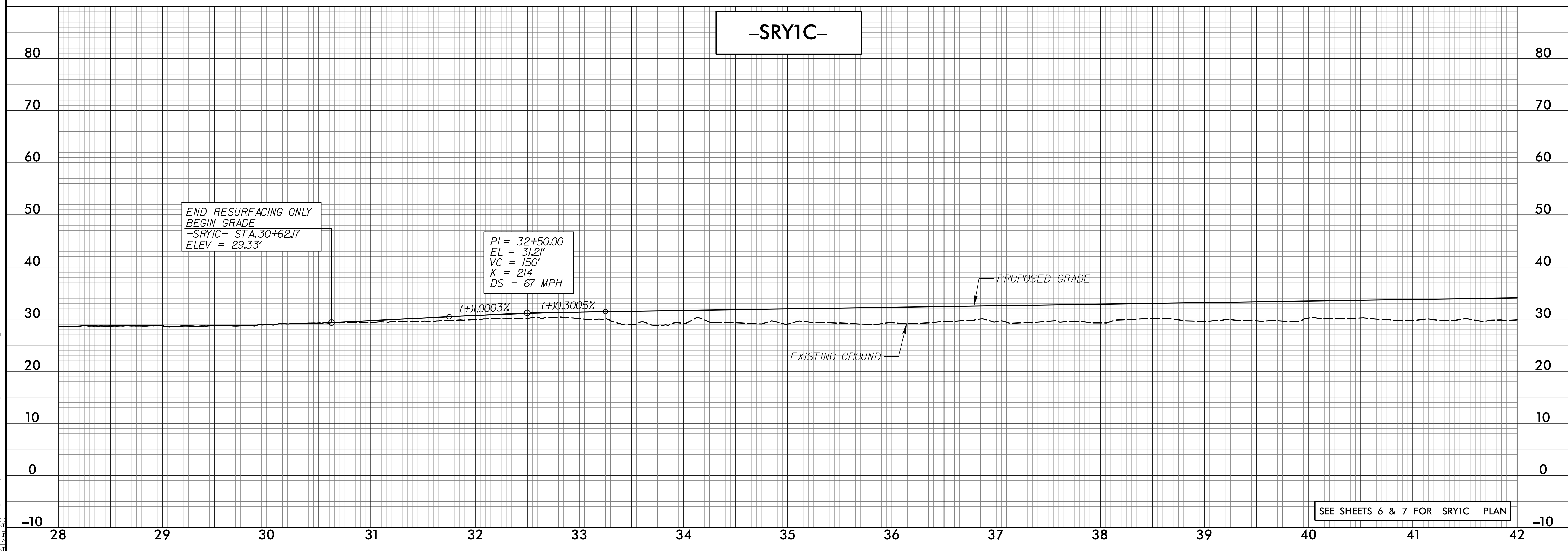
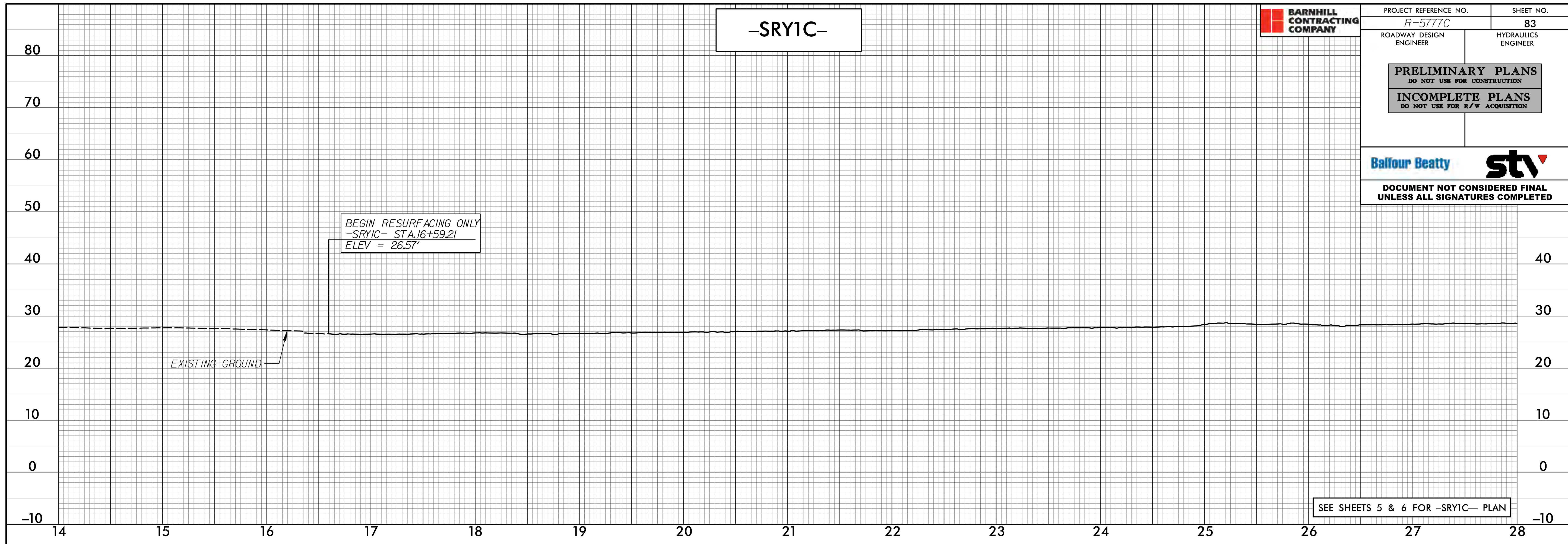
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PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION



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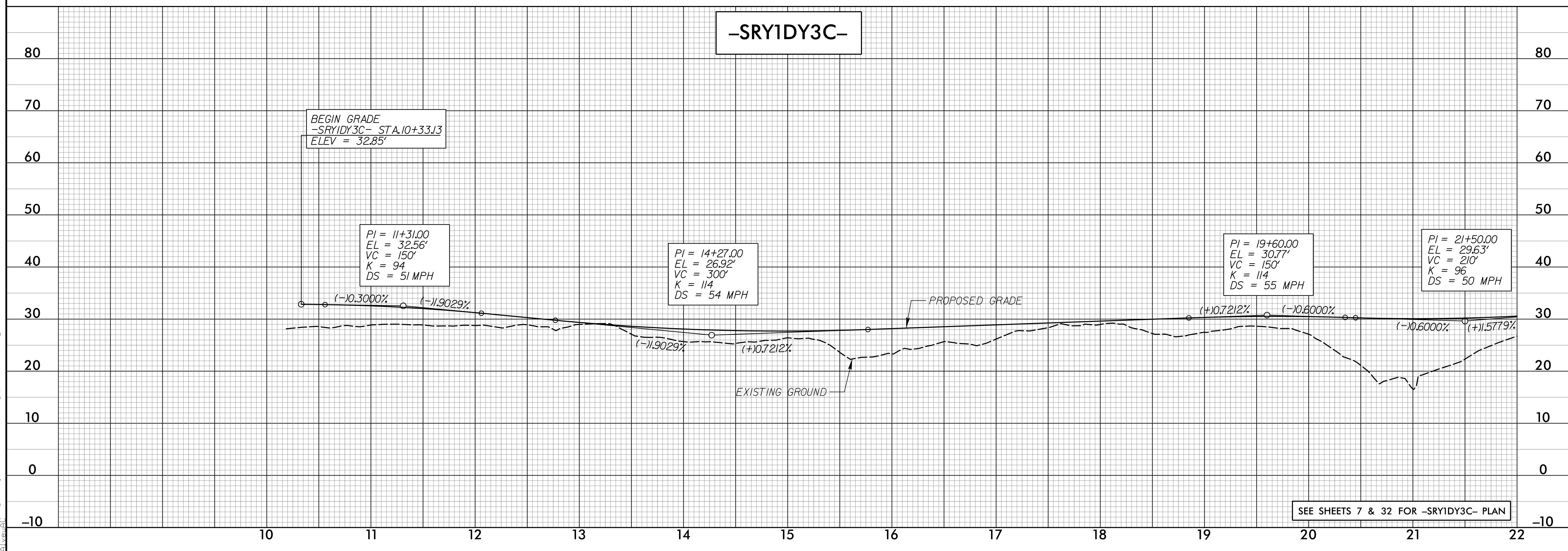
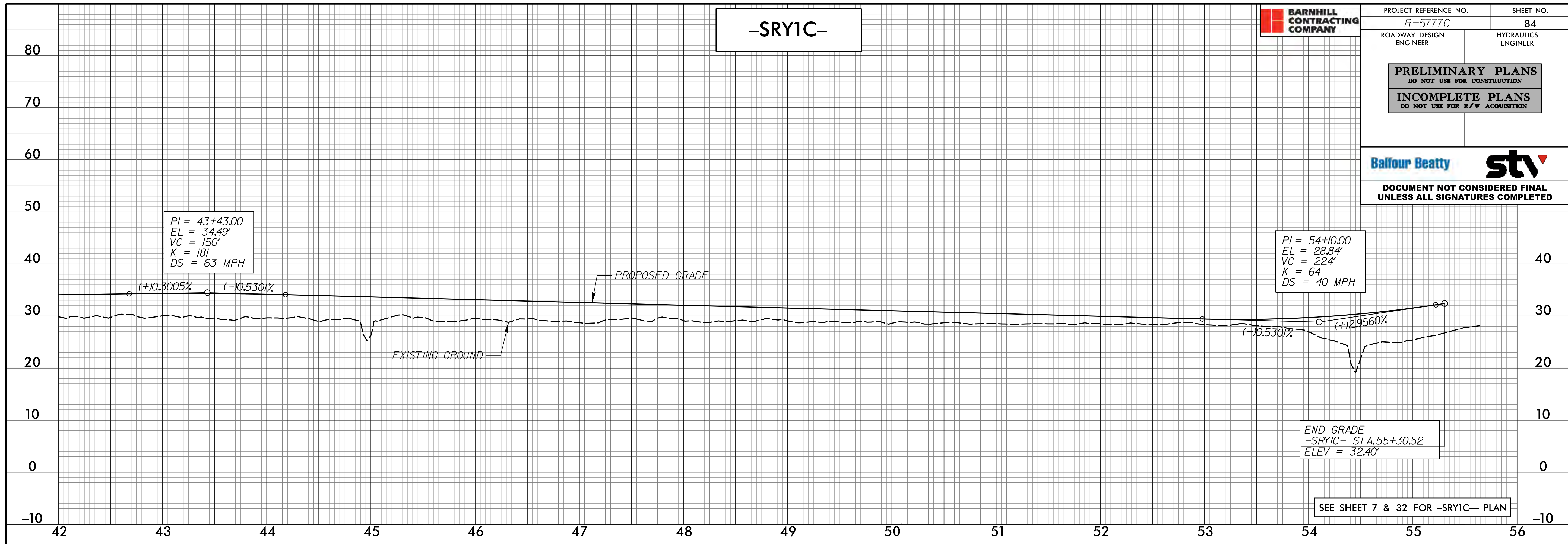
4/12/2023
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PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION



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4/12/2023
 C:\Users\pco\OneDrive\Documents\Projects\PSHR-R-5777C-rdy-esh84_PFL.dgn

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

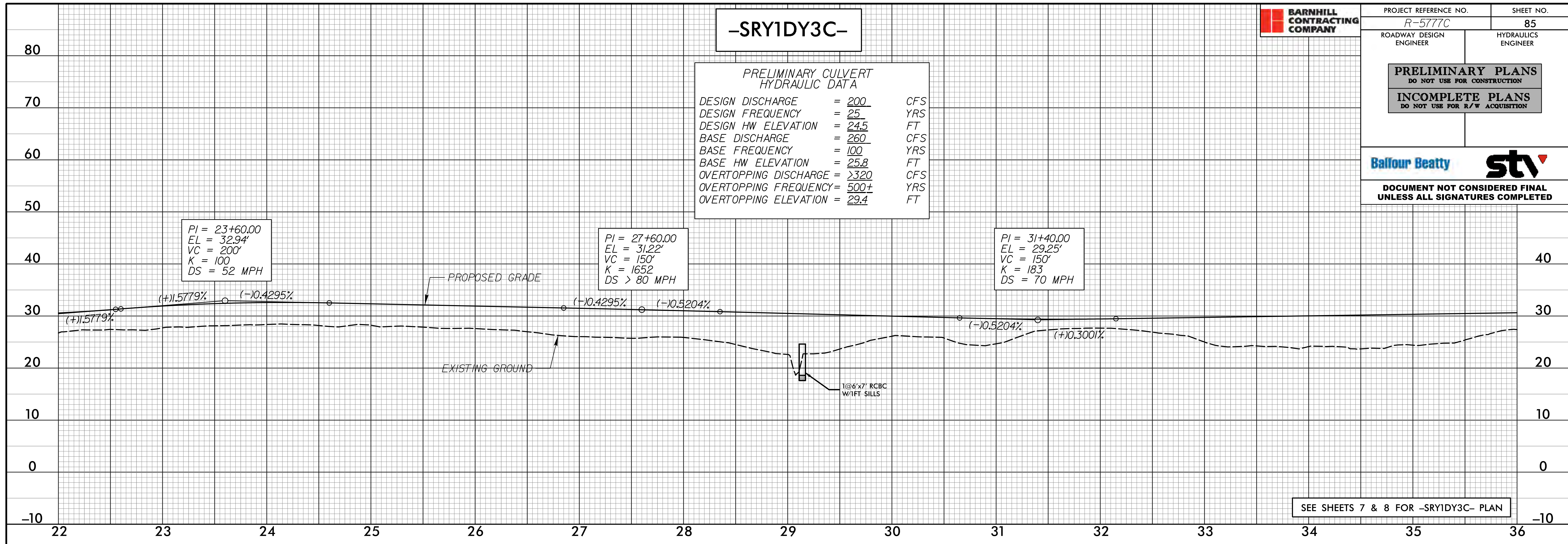


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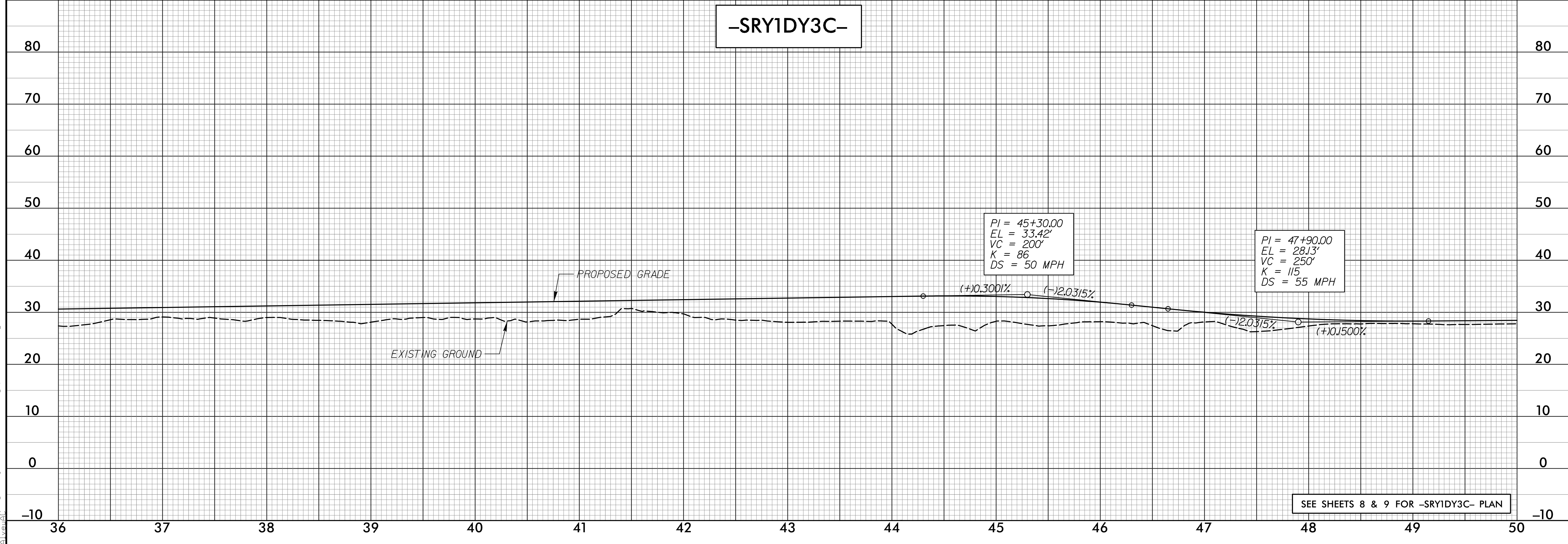
-SRY1DY3C-

PRELIMINARY CULVERT HYDRAULIC DATA

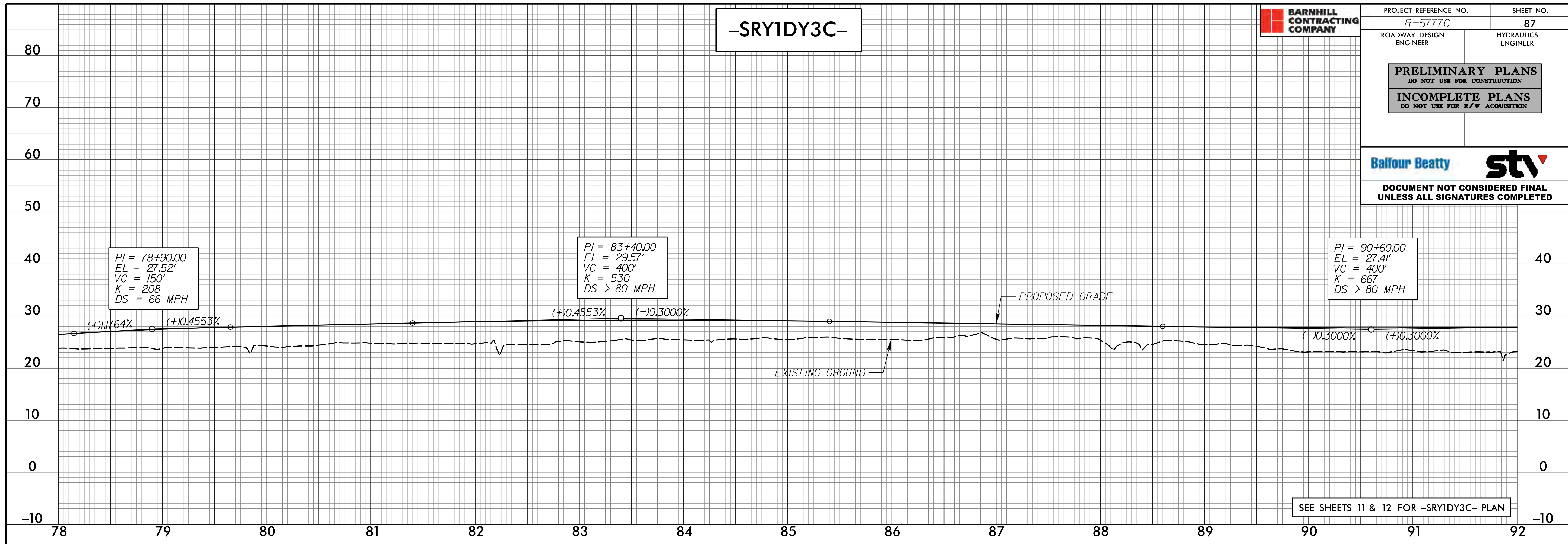
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DESIGN FREQUENCY	= 25	YRS
DESIGN HW ELEVATION	= 24.5	FT
BASE DISCHARGE	= 260	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 25.8	FT
OVERTOPPING DISCHARGE	= 2320	CFS
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING ELEVATION	= 29.4	FT



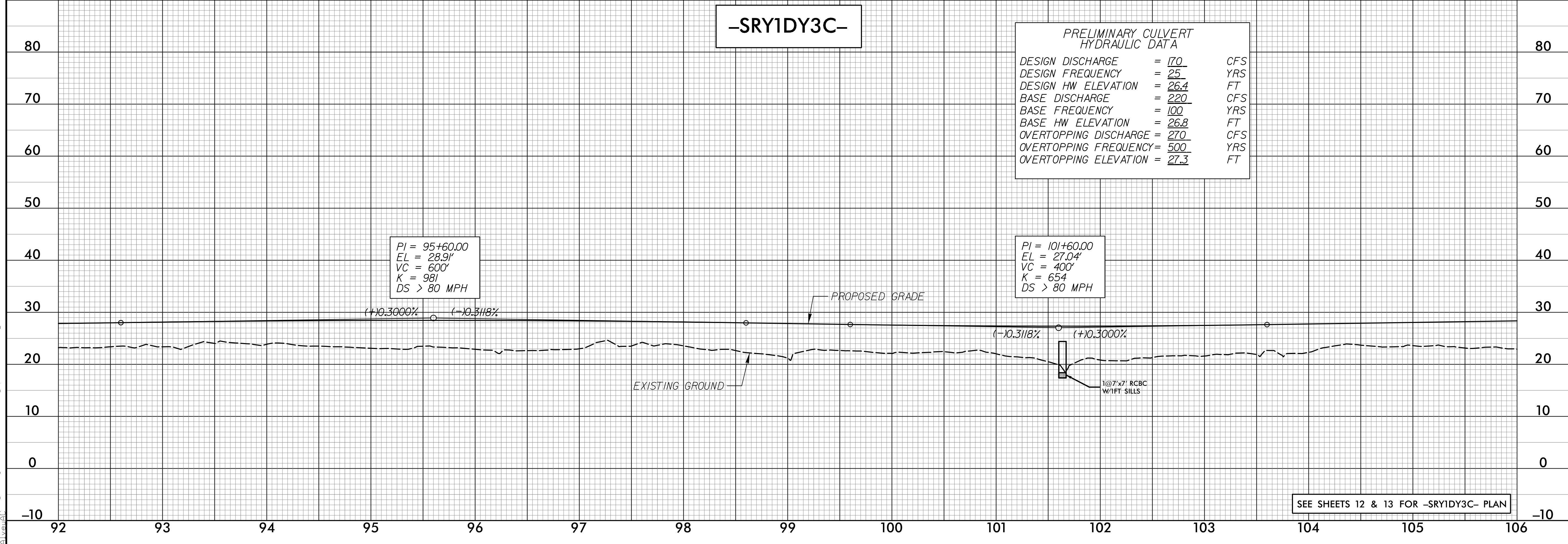
-SRY1DY3C-



4/12/2023
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SEE SHEETS 11 & 12 FOR -SRY1DY3C- PLAN

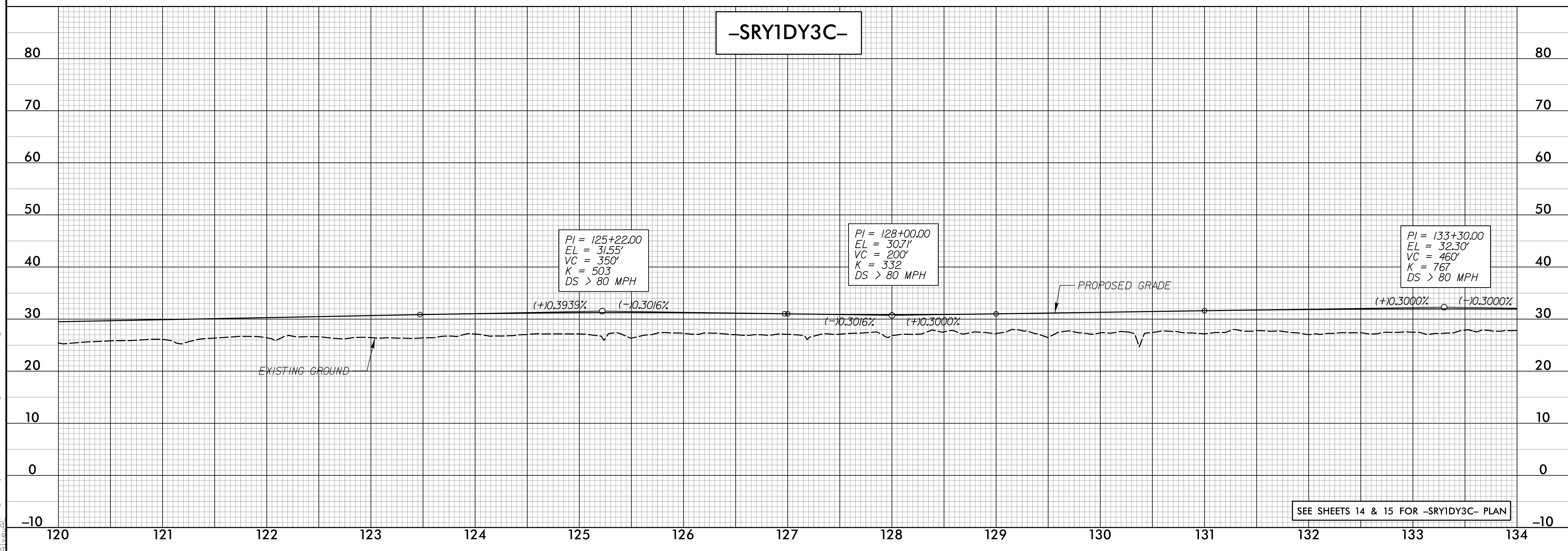
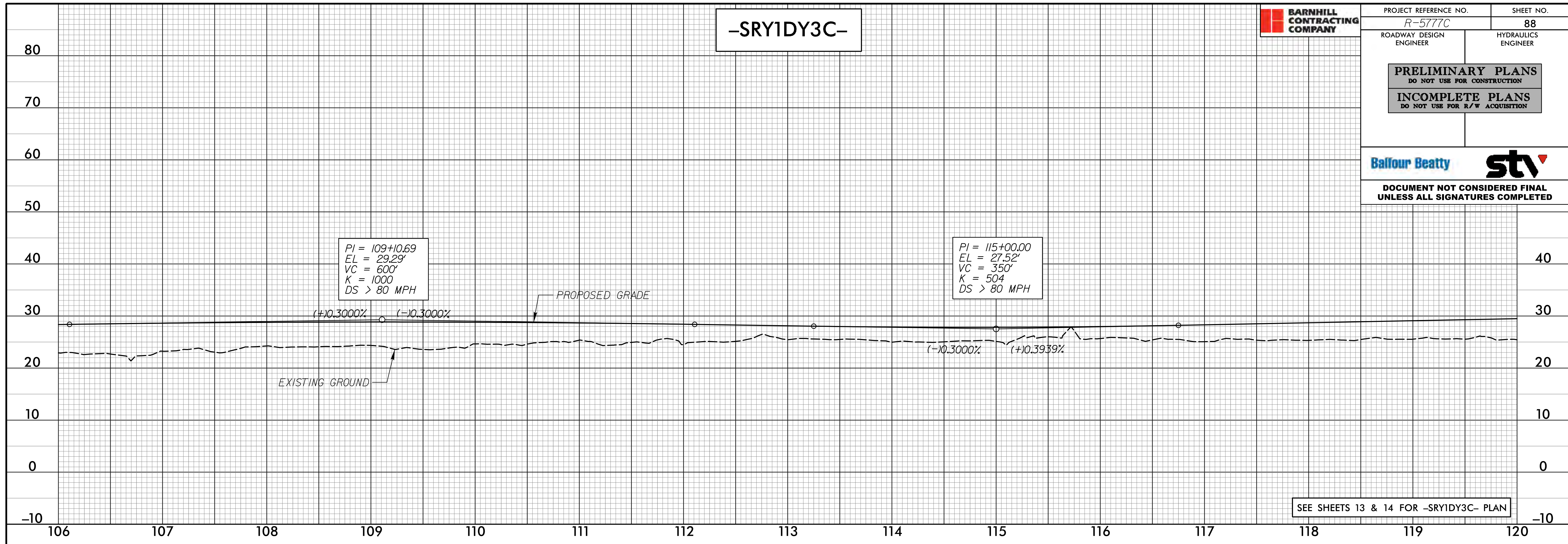


PRELIMINARY CULVERT HYDRAULIC DATA

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DESIGN FREQUENCY	= 25	YRS
DESIGN HW ELEVATION	= 26.4	FT
BASE DISCHARGE	= 220	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 26.8	FT
OVERTOPPING DISCHARGE	= 270	CFS
OVERTOPPING FREQUENCY	= 500	YRS
OVERTOPPING ELEVATION	= 27.3	FT

SEE SHEETS 12 & 13 FOR -SRY1DY3C- PLAN

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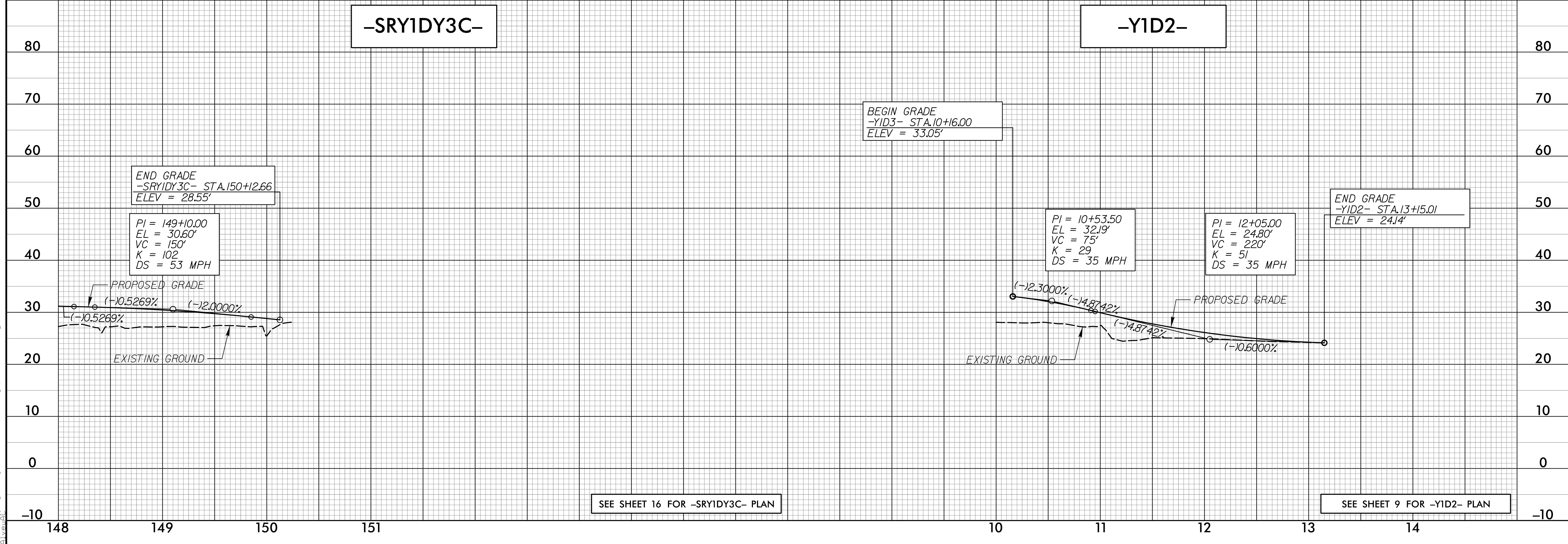
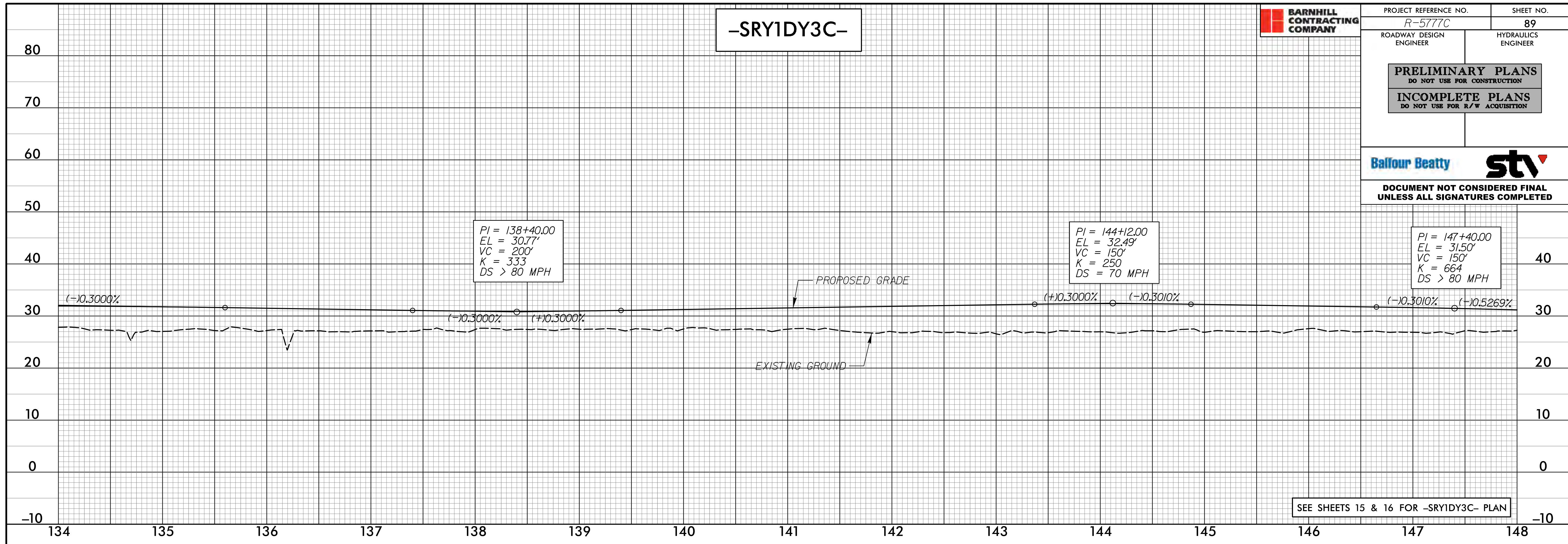
4/12/2023
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PRELIMINARY PLANS
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INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION



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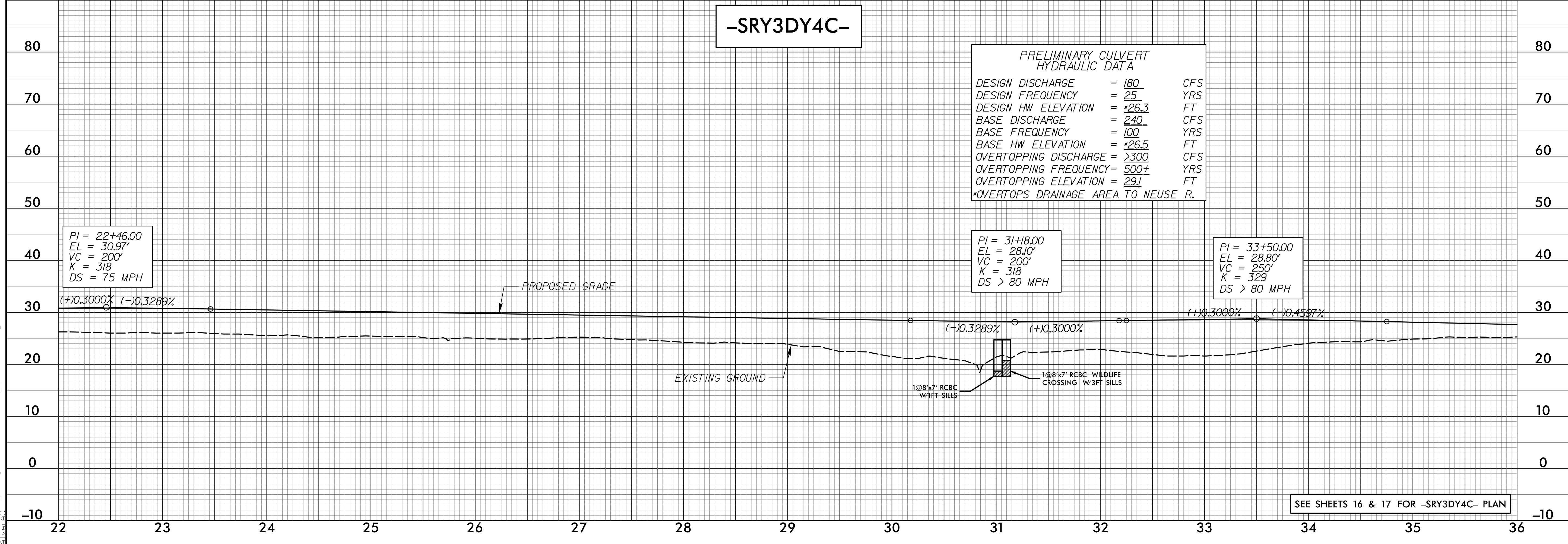
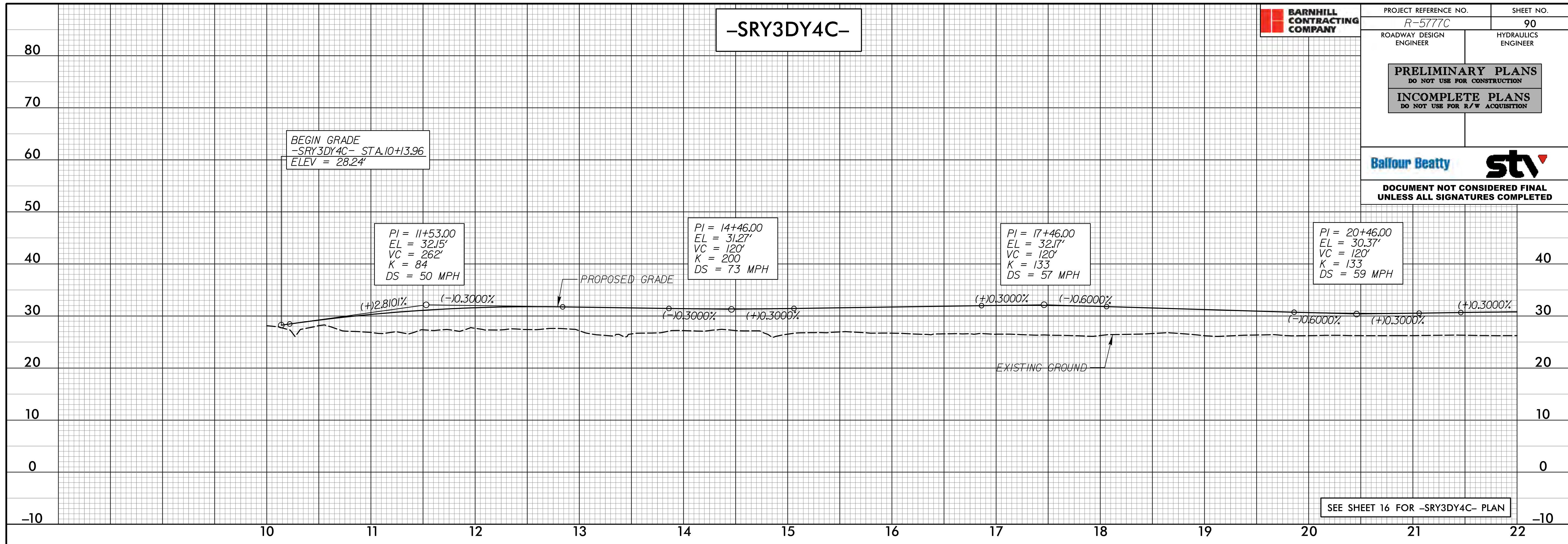
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PRELIMINARY CULVERT HYDRAULIC DATA

DESIGN DISCHARGE	= 180	CFS
DESIGN FREQUENCY	= 25	YRS
DESIGN HW ELEVATION	= *26.3	FT
BASE DISCHARGE	= 240	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= *26.5	FT
OVERTOPPING DISCHARGE	= >300	CFS
OVERTOPPING FREQUENCY	= 500±	YRS
OVERTOPPING ELEVATION	= 29.1	FT

*OVERTOPS DRAINAGE AREA TO NEUSE R.

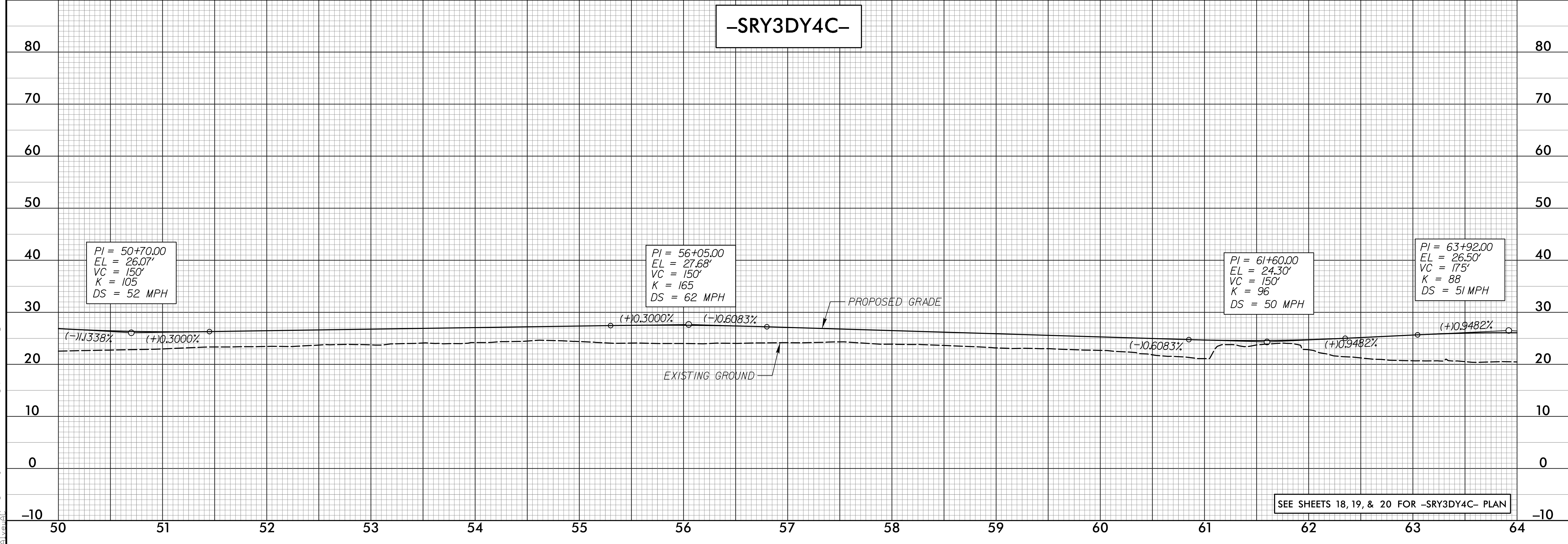
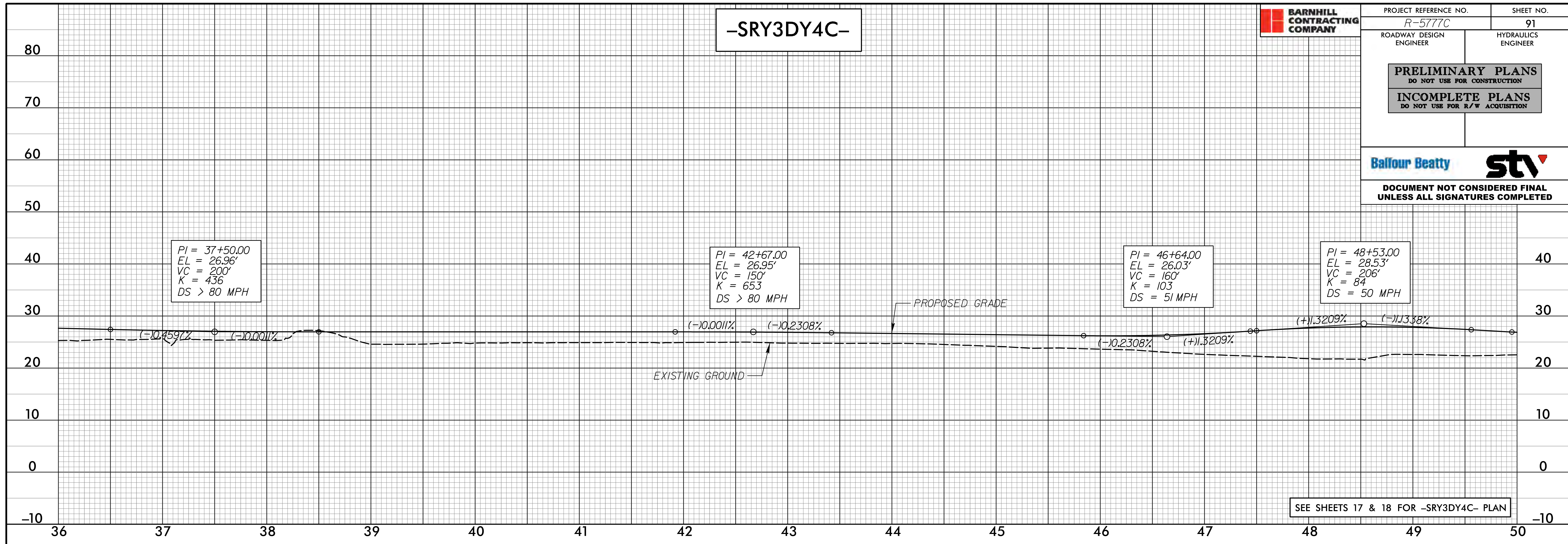
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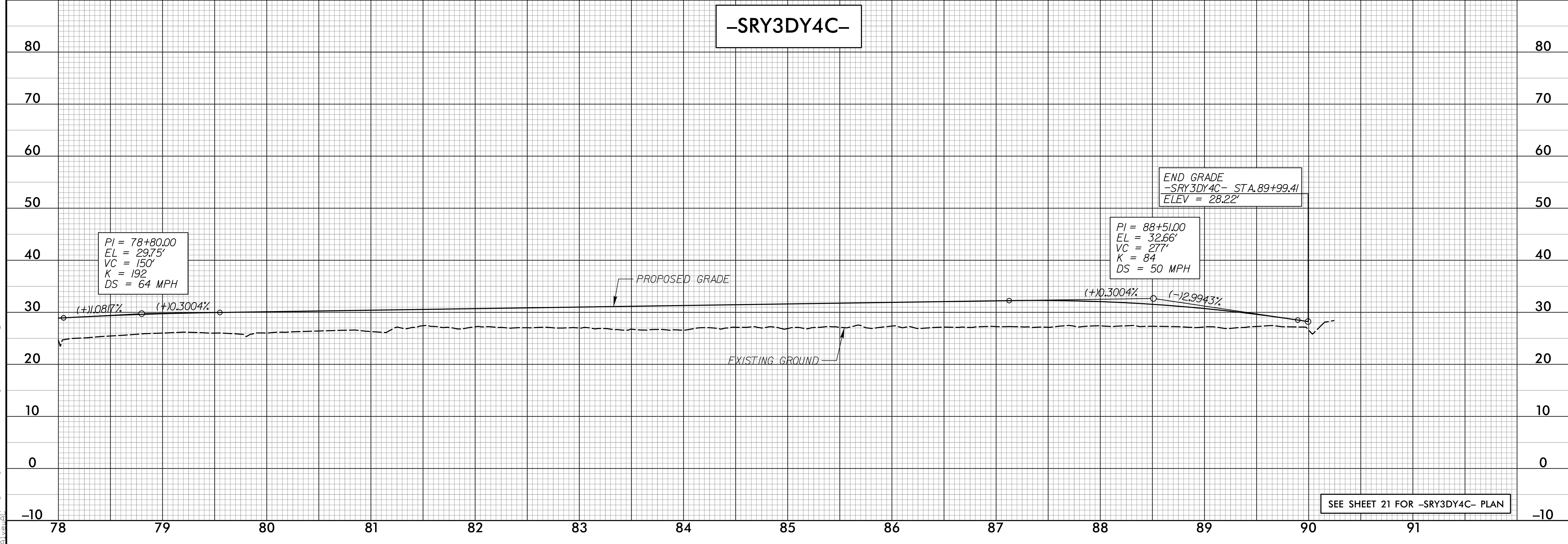
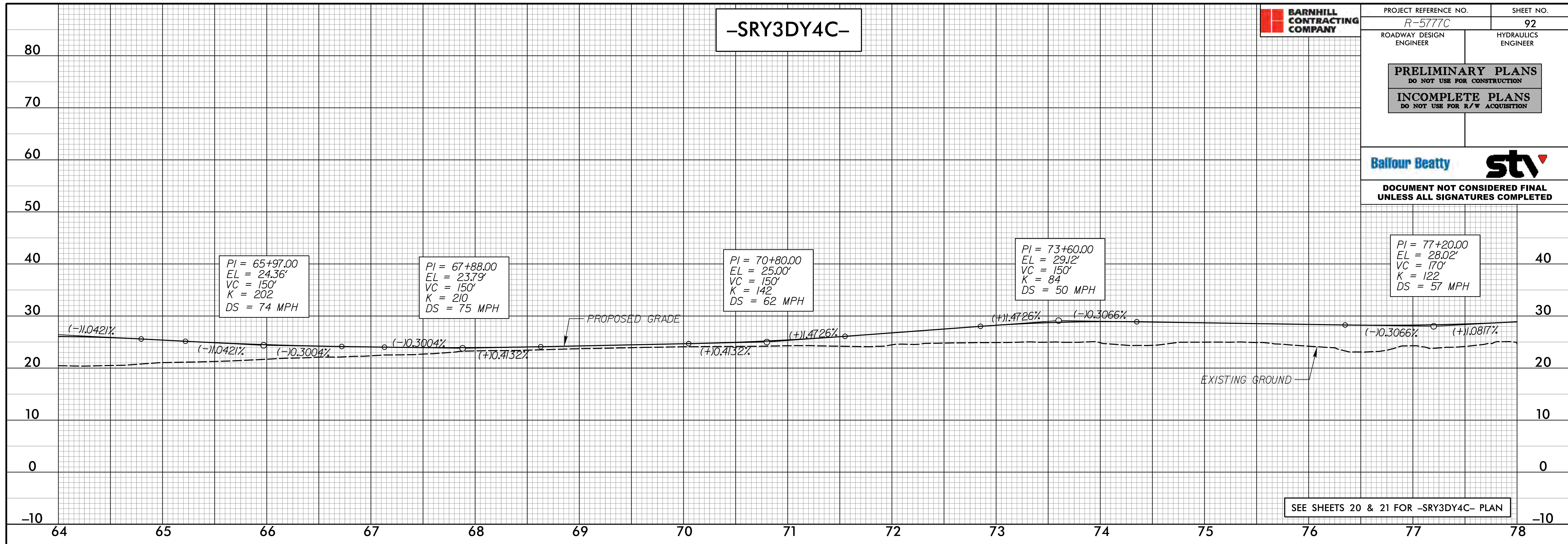
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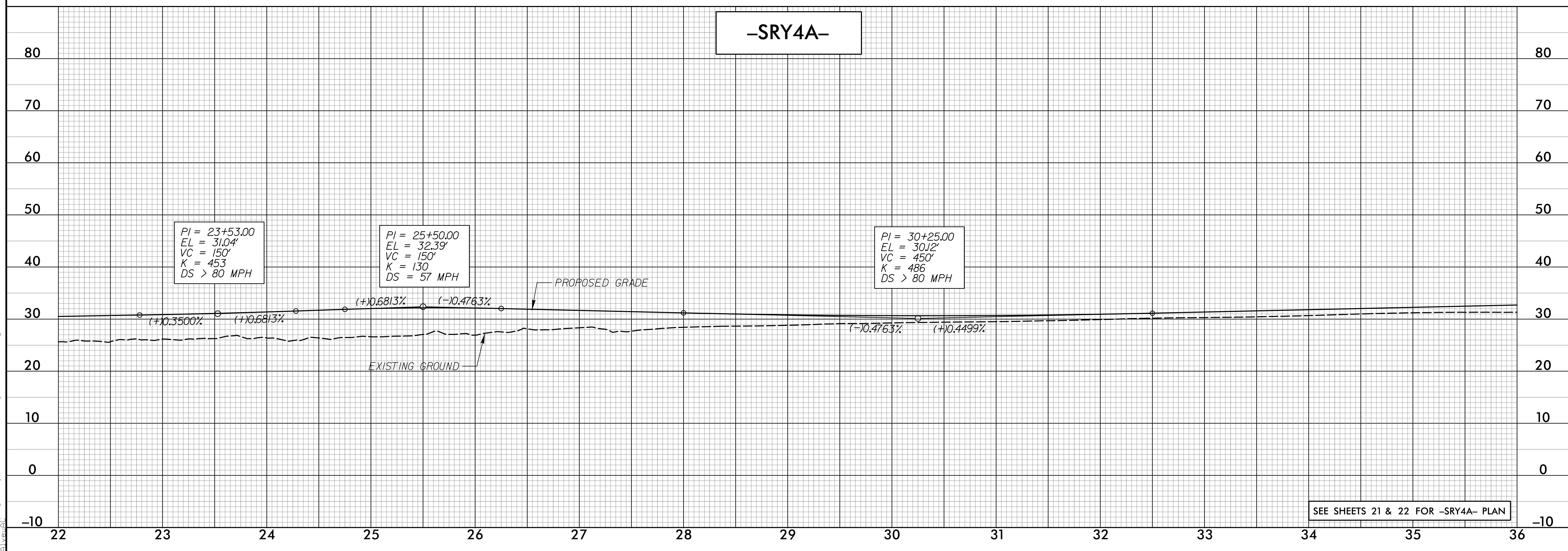
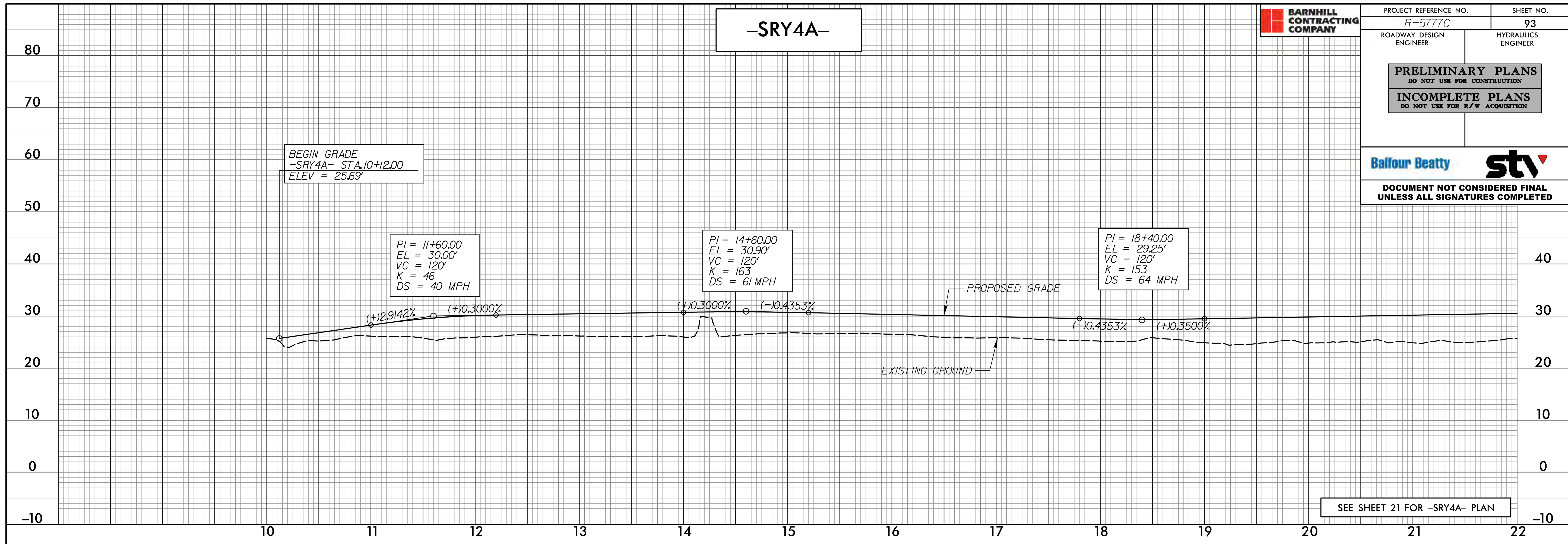
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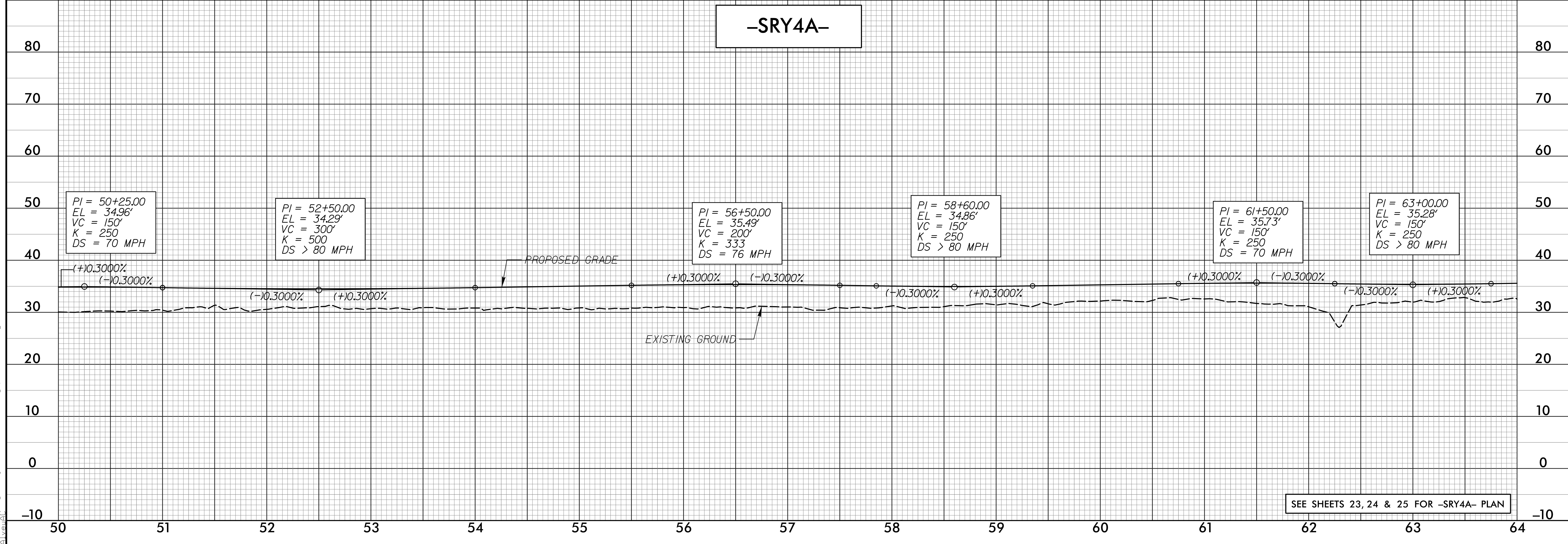
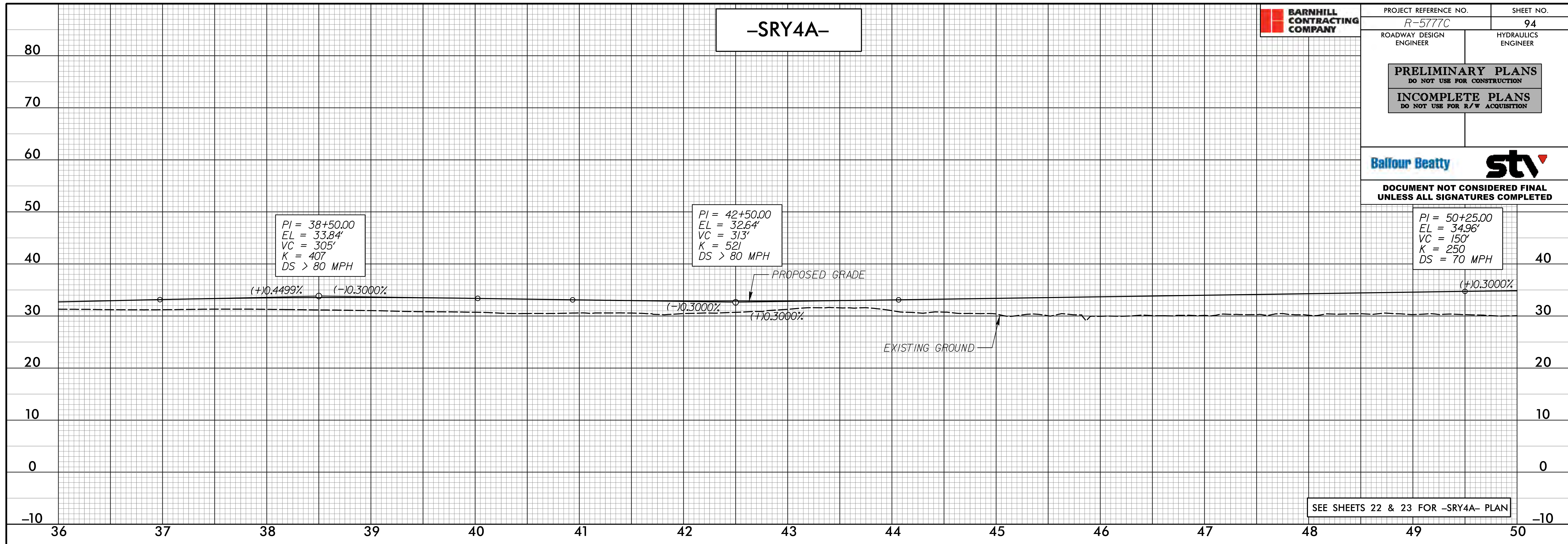
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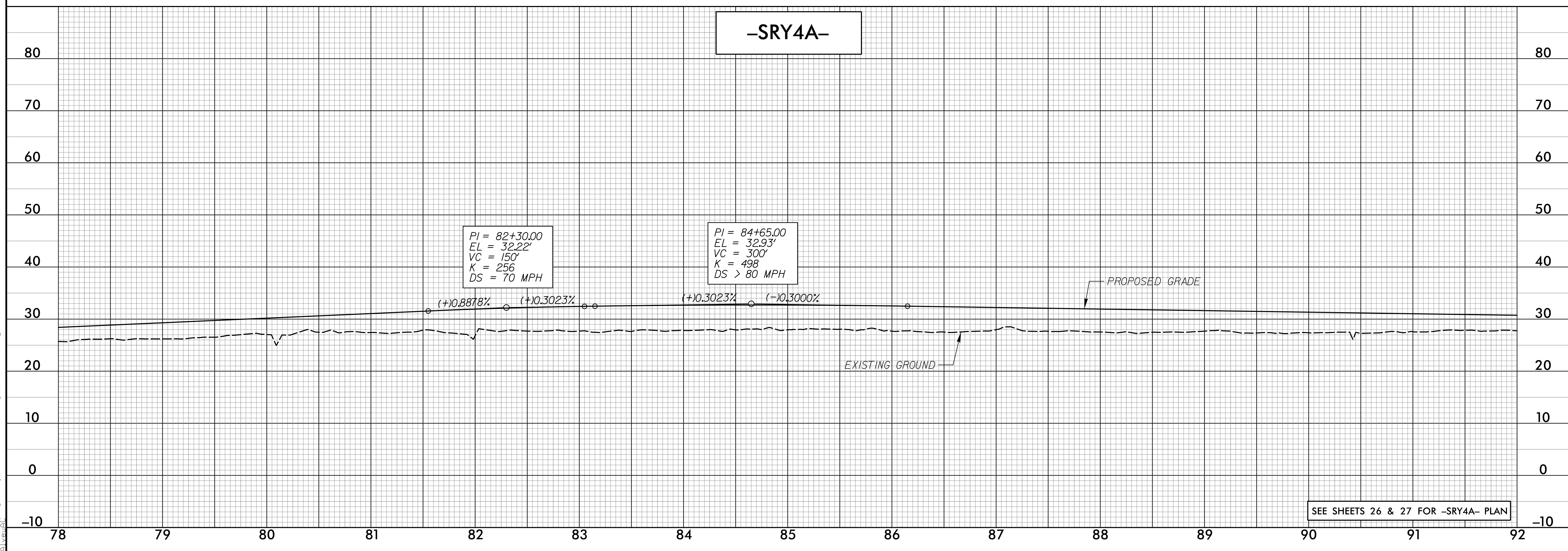
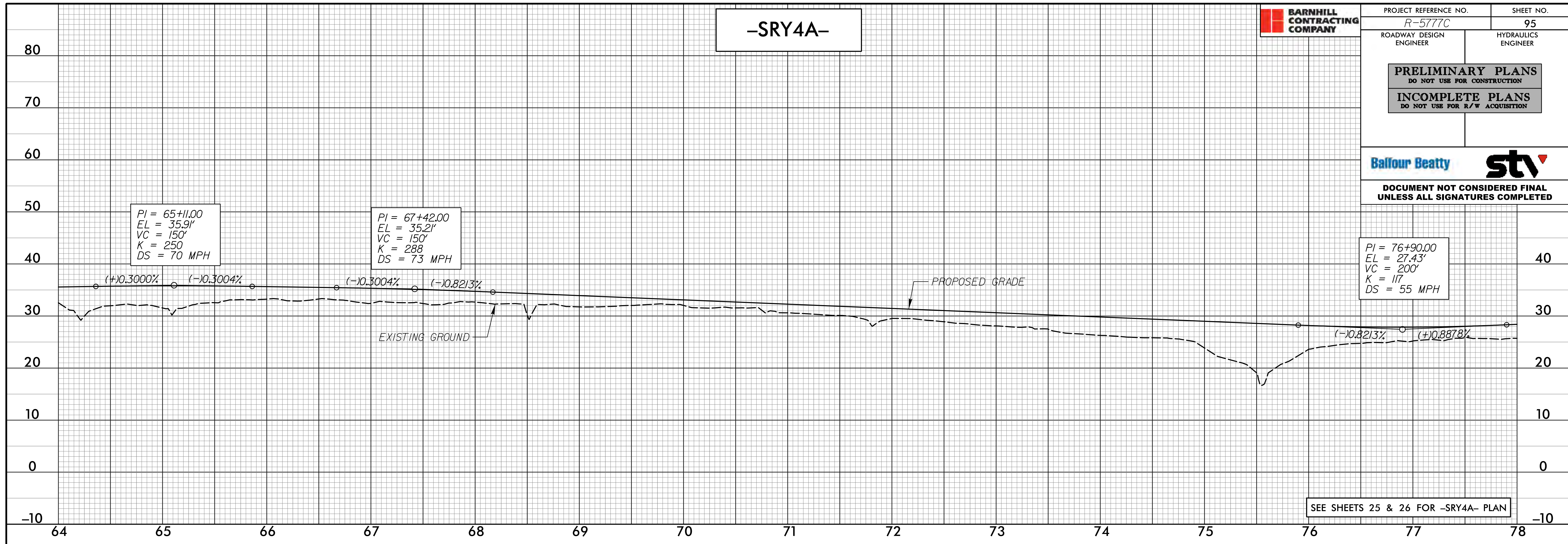
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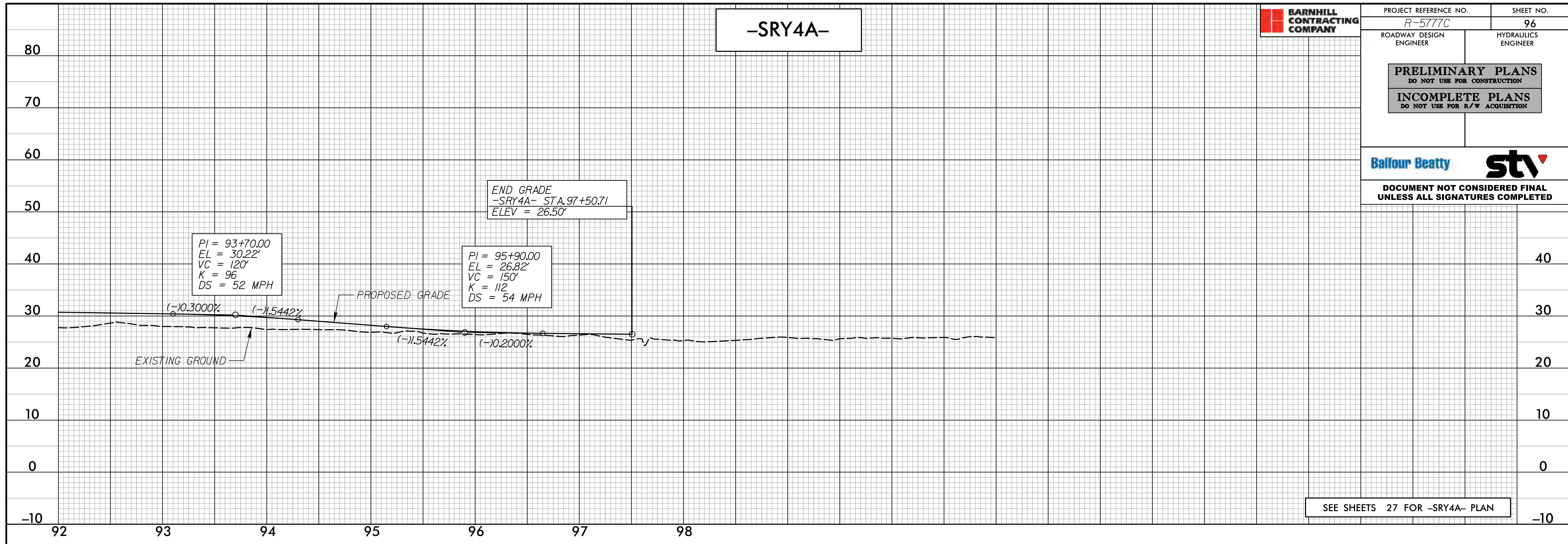
PRELIMINARY PLANS
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-SRY4A-



SEE SHEETS 27 FOR -SRY4A- PLAN

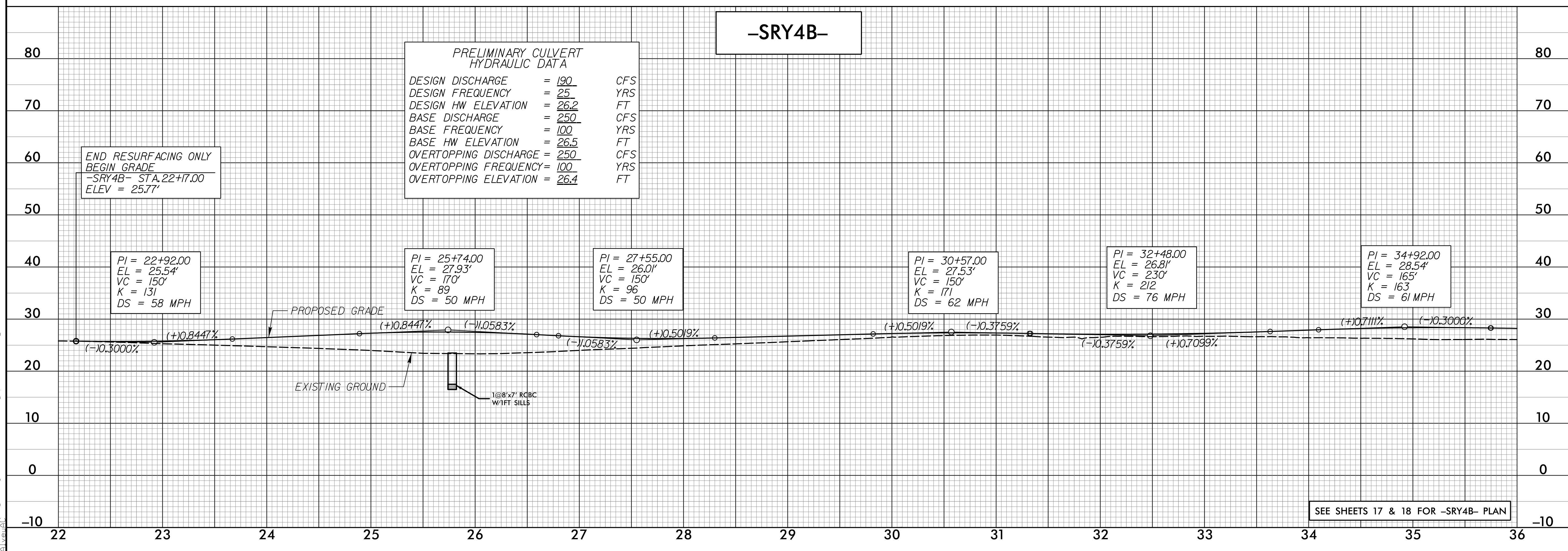
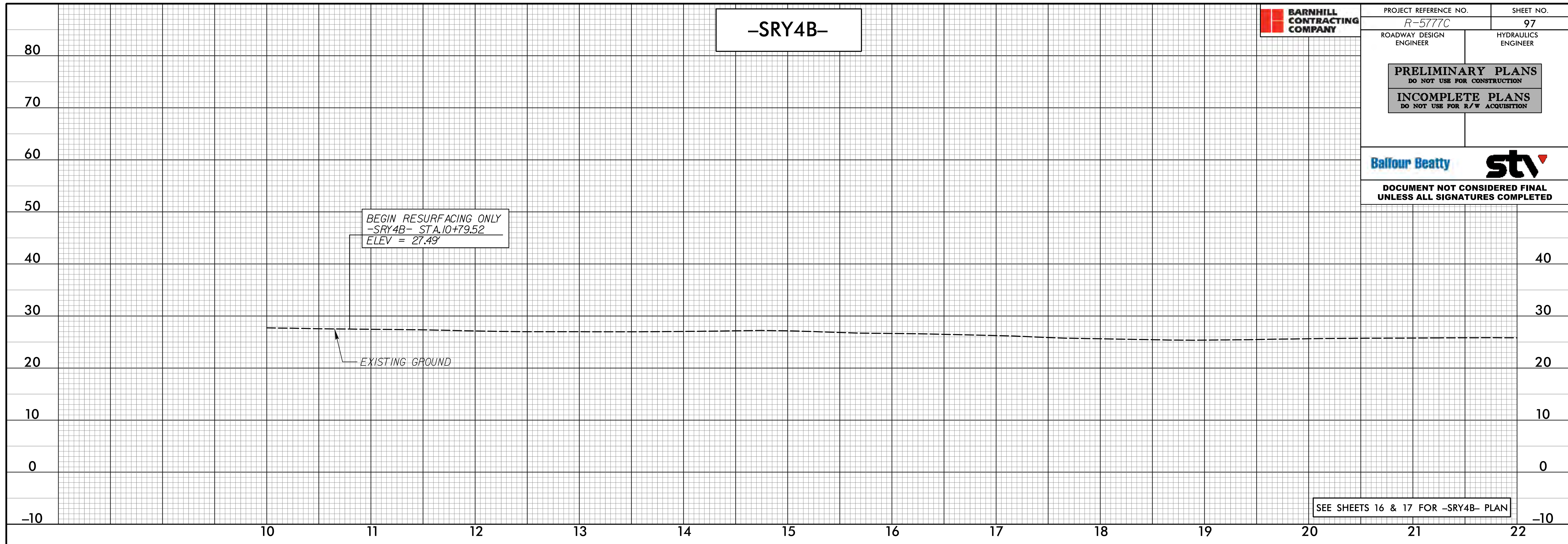
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PRELIMINARY PLANS
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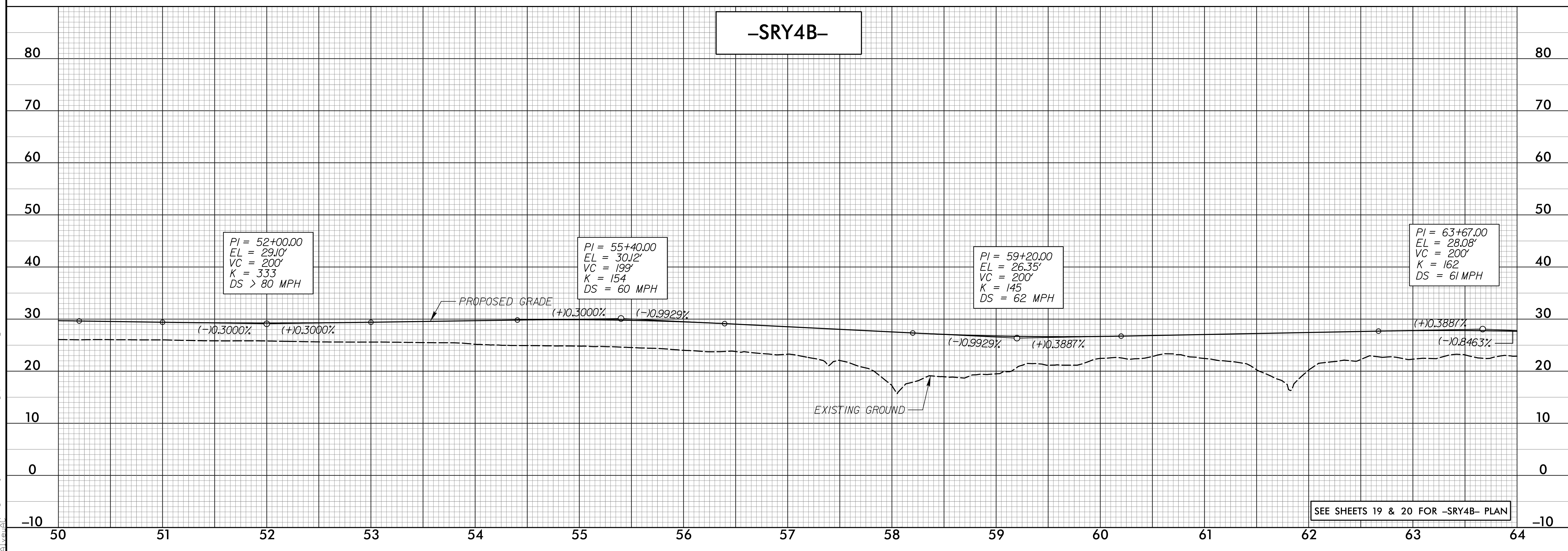
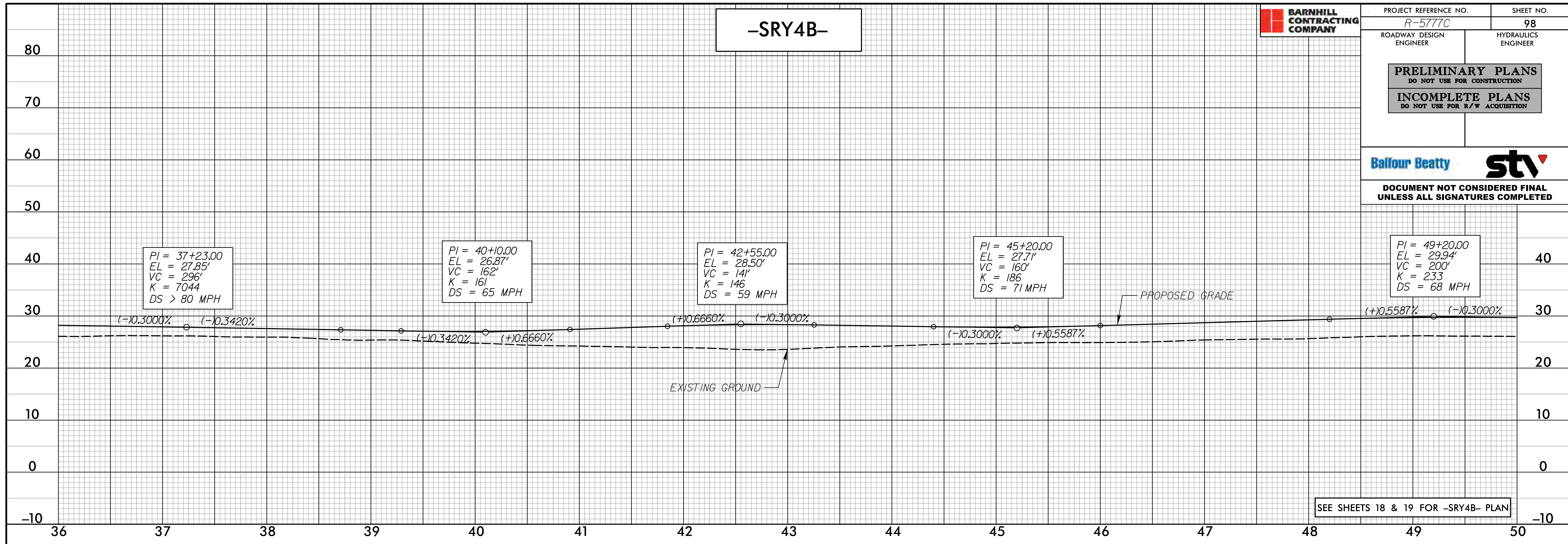
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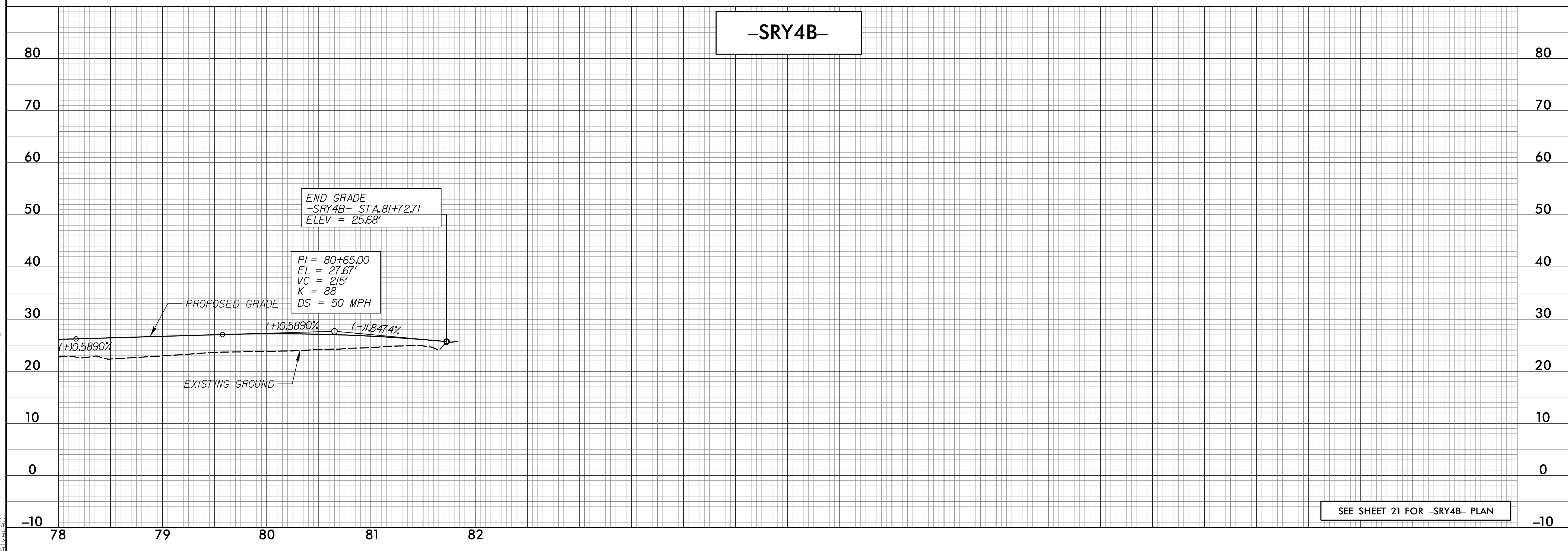
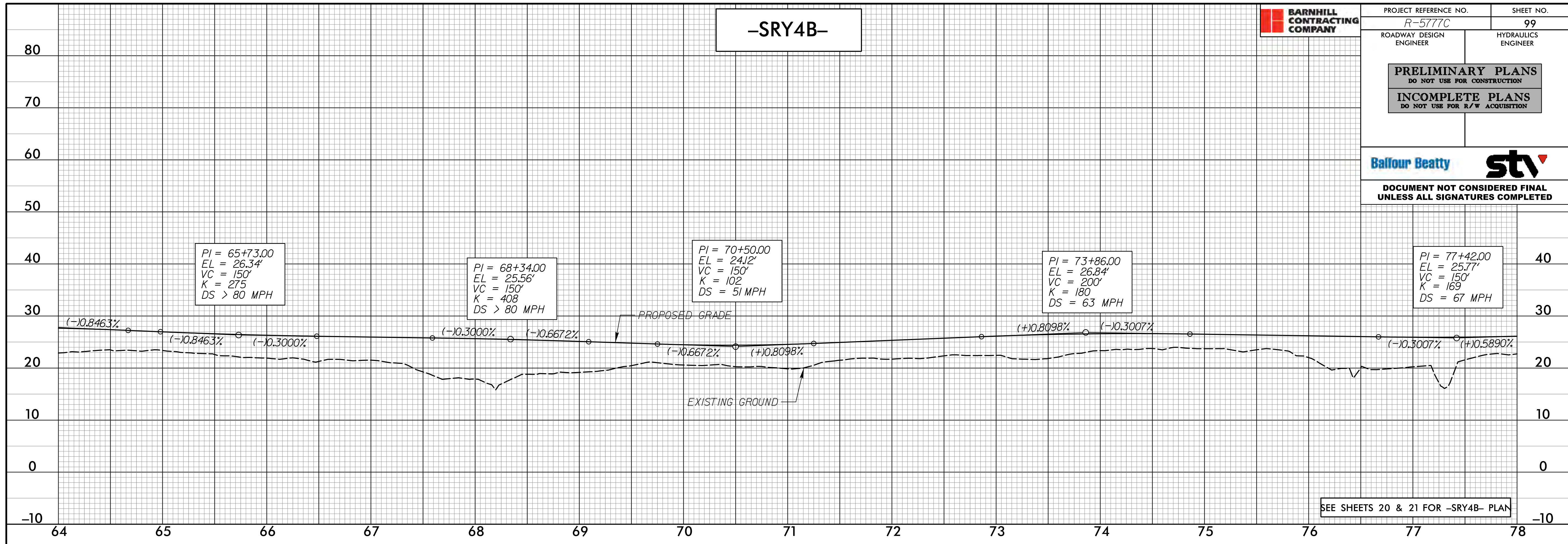
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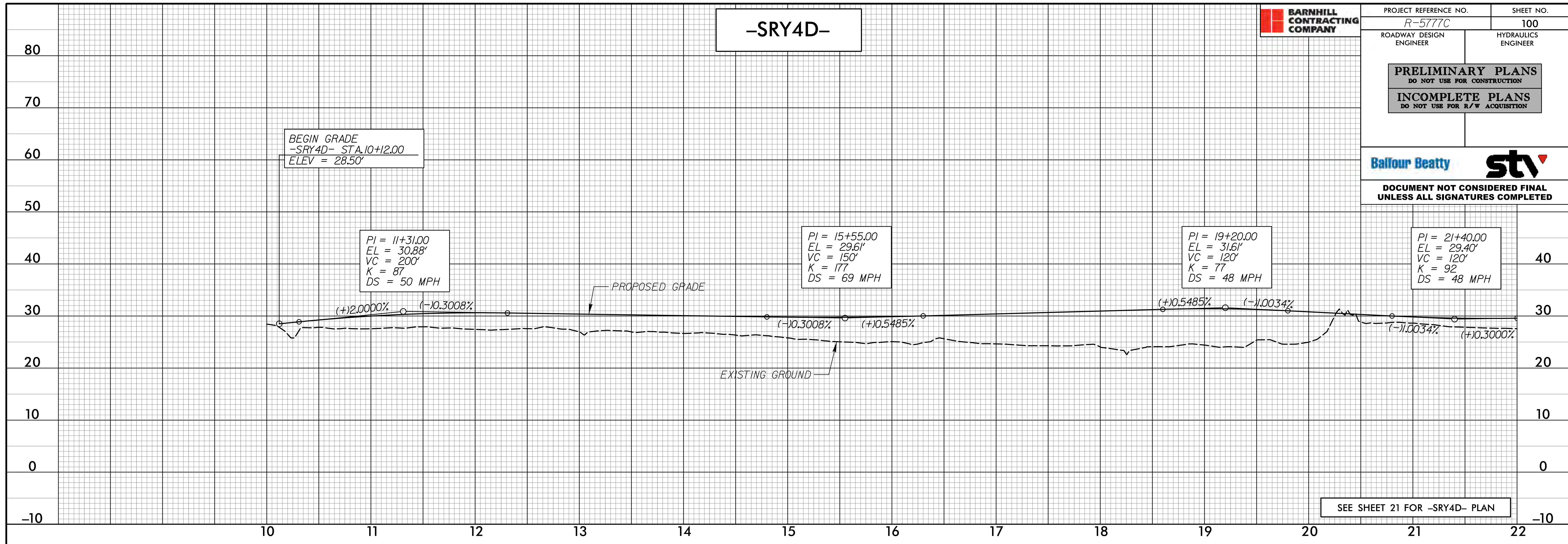
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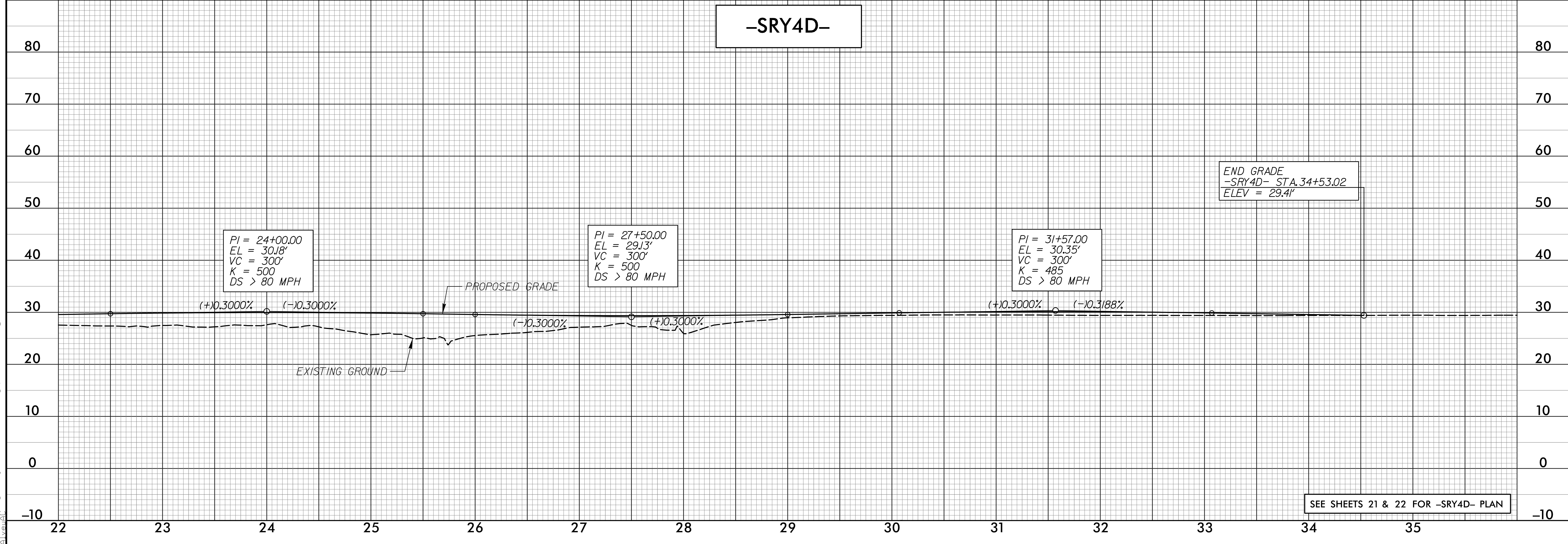
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION



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SEE SHEET 21 FOR -SRY4D- PLAN



SEE SHEETS 21 & 22 FOR -SRY4D- PLAN

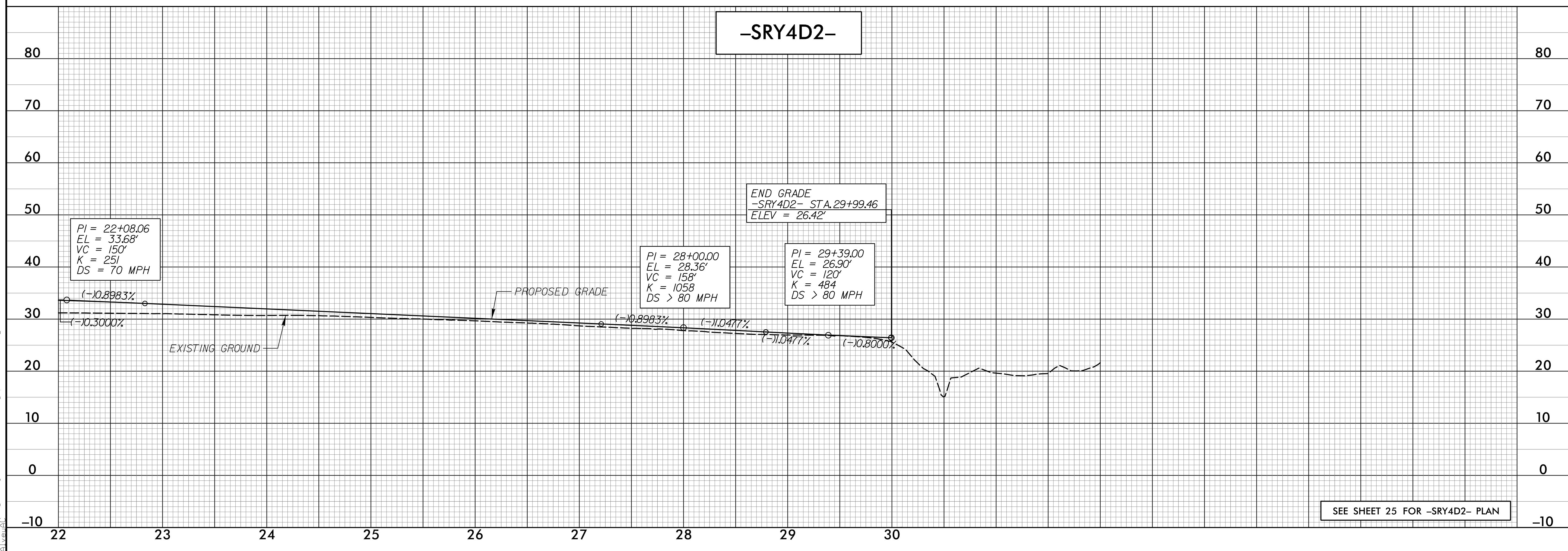
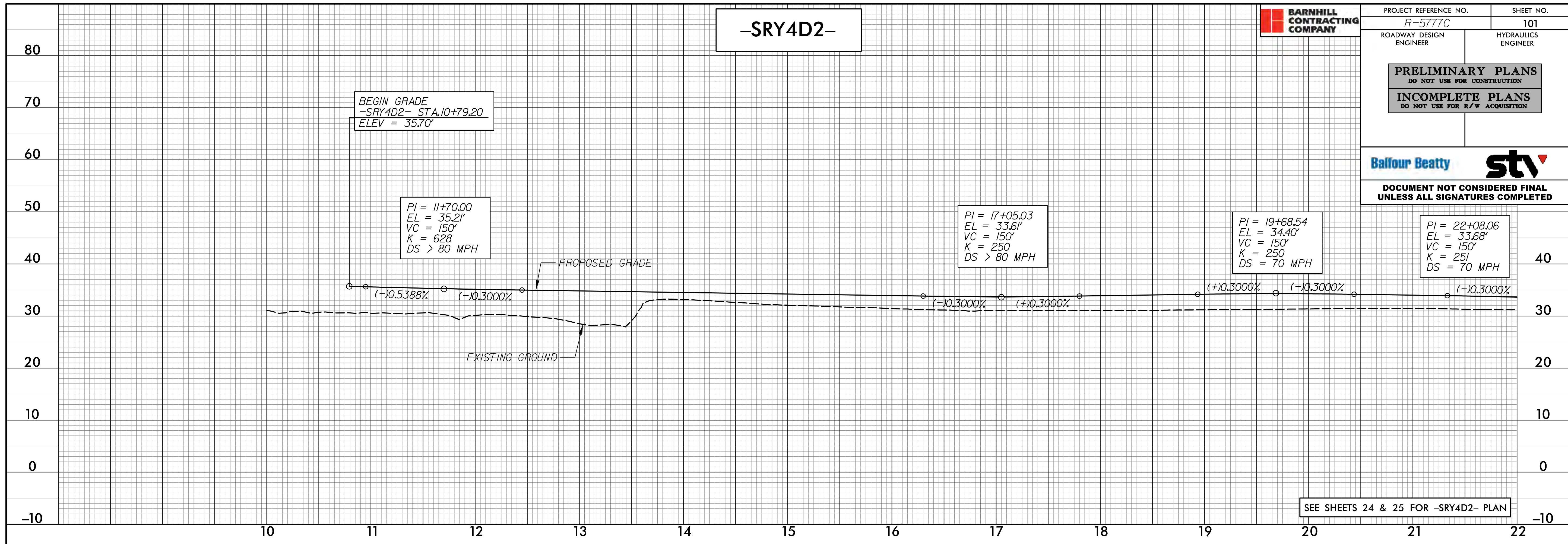
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PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



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