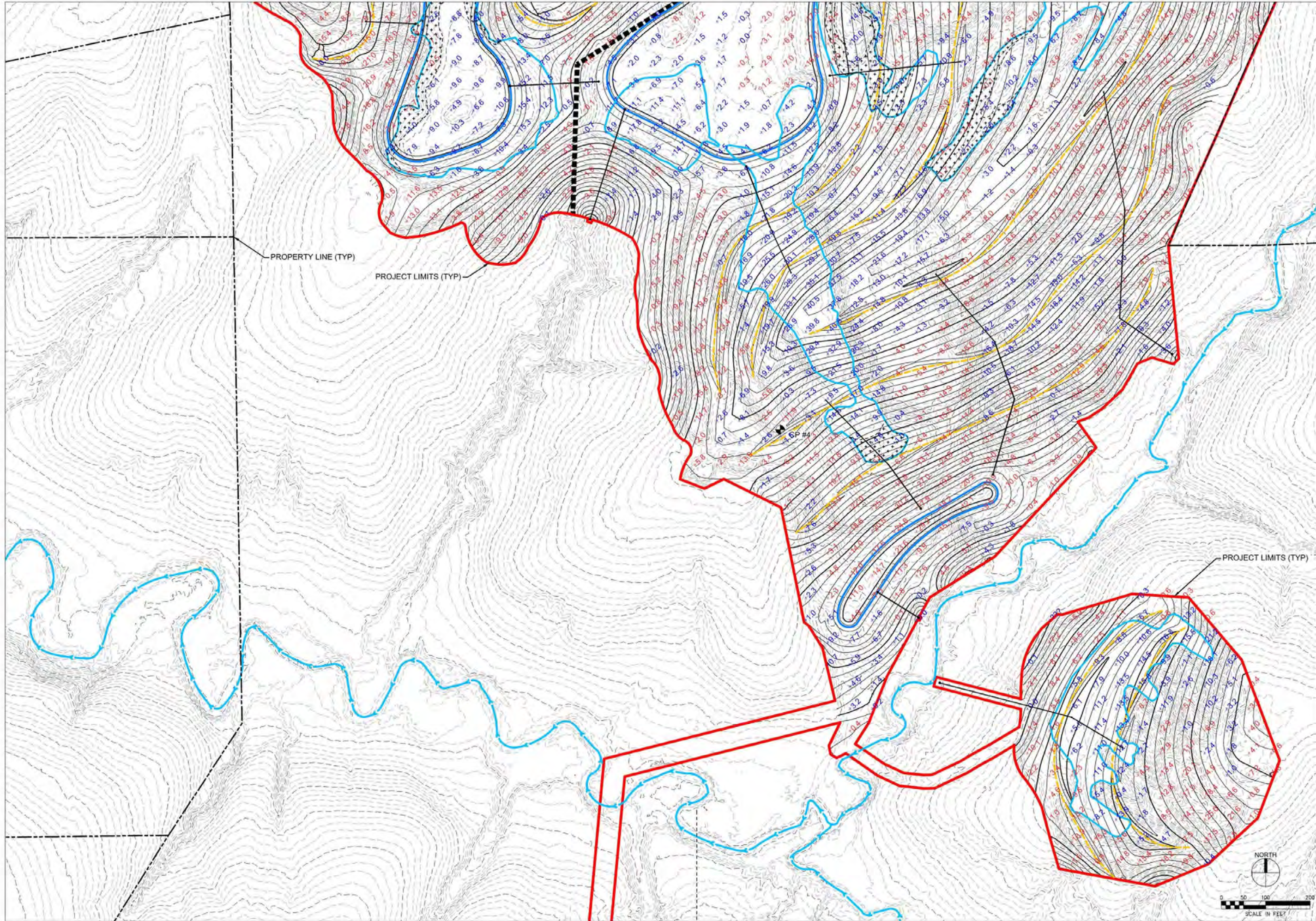


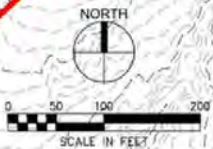
DESIGN BY: MMO	DRAWN BY: ANI	CHKD. BY: LTM	ISSUED: 6/27/2024	REVISED: ---	S-H PROJECT NUMBER: 2142203050
PELLA NORTH AND SOUTH AML RECLAMATION PROJECT			DIVISION OF SOIL CONSERVATION AND WATER QUALITY IOWA DEPARTMENT OF AGRICULTURE AND LAND STEWARDSHIP HENRY A. WALLACE BUILDING 502 E. 9th STREET, DES MOINES, IOWA 50319 (515) 281-4246		
SHEET 17 OF 43					
			SHIVEHATTERY ARCHITECTURE+ENGINEERING 4425 Western Parkway, Suite 100 West Des Moines, Iowa 50266 515.233.1044 Fax: 515.233.0022 shivehattery.com Iowa Illinois Missouri Illinois Firm Number: 164-000214		



PROPERTY LINE (TYP)

PROJECT LIMITS (TYP)

PROJECT LIMITS (TYP)



S-H PROJECT NUMBER: 2142203050

ISSUED: 6/27/2024
 REVISED: ---
 CHKD. BY: LTM

DESIGN BY: MMO
 DRAWN BY: ANI

DIVISION OF SOIL CONSERVATION
 AND WATER QUALITY
 IOWA DEPARTMENT OF AGRICULTURE
 AND LAND STEWARDSHIP
 HENRY A. WALLACE BUILDING
 502 E. 9th STREET, DES MOINES, IOWA 50319
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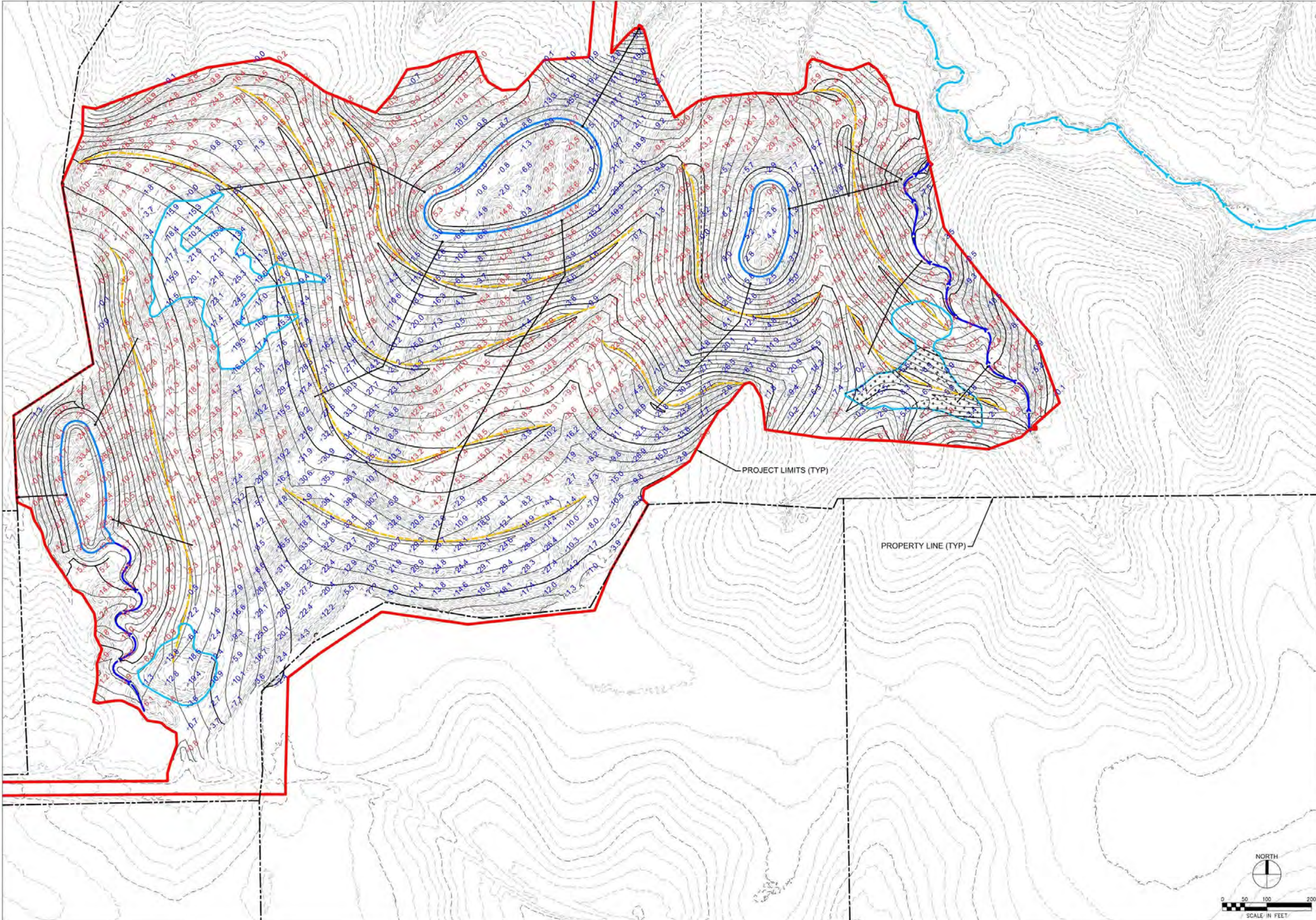



PELLA NORTH AND SOUTH
 AML RECLAMATION PROJECT

CUT-FILL PLAN

SHEET
 18 OF 43

SHIVEHATTERY
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 4425 Western Parkway, Suite 100 | West Des Moines, Iowa 50266
 515.235.6104 | fax 515.235.6022 | shivehattery.com
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DESIGN BY: MMO	DRAWN BY: ANI	CHKD. BY: LTM	ISSUED: 6/27/2024	REVISED: ---	S-H PROJECT NUMBER: 2142203050
PELLA NORTH AND SOUTH AML RECLAMATION PROJECT			DIVISION OF SOIL CONSERVATION AND WATER QUALITY IOWA DEPARTMENT OF AGRICULTURE AND LAND STEWARDSHIP HENRY A. WALLACE BUILDING 502 E. 9th STREET, DES MOINES, IOWA 50319 (515) 281-4246		
CUT-FILL PLAN					
SHEET 19 OF 43			SHIVEHATTERY ARCHITECTURE+ENGINEERING <small>4425 Western Parkway, Suite 100 West Des Moines, Iowa 50266 515.233.6104 fax 515.233.6022 shivehattery.com Iowa Illinois Missouri Illinois Firm Number: 164-000214</small>		

PIPES							
NO.	LENGTH (FT)	DIAMETER (IN)	MATERIAL	UPSTREAM INVERT (FT)	DOWNSTREAM INVERT (FT)	SLOPE	NOTES
P1A	83.4	8	DWPE	838.0	836.7	1.60%	
P1B	185.4	8	DWPE	836.7	819.0	9.57%	
P2	126.9	10	DWPE	819.0	813.0	4.73%	DL
P3	128.0	8	DWPE	819.0	807.0	9.41%	
P4	100.5	10	DWPE	807.0	797.0	10.00%	DL
P5	191.9	8	DWPE	838.0	819.0	9.95%	
P6	140.7	10	DWPE	819.0	817.2	1.30%	DL
P7	112.2	8	DWPE	823.5	822.0	1.34%	DL
P8	335.3	8	DWPE	839.0	826.0	3.88%	
P9	107.0	10	DWPE	826.0	823.0	2.81%	
P10	74.7	12	DWPE	823.0	822.0	1.35%	DL
P11	277.6	8	DWPE	839.0	826.0	4.69%	
P12	180.8	10	DWPE	826.0	823.0	1.66%	
P13	88.1	12	DWPE	823.0	822.0	1.13%	DL
P14	200.4	12	PPHP	815.0	814.0	0.50%	ASC
P15	117.4	8	DWPE	818.0	814.0	3.41%	DL
P16	250.6	8	DWPE	839.0	824.0	6.00%	
P17	117.9	10	DWPE	824.0	818.0	5.10%	
P18	163.1	12	DWPE	818.0	814.0	2.45%	DL
P19	183.4	8	DWPE	831.5	818.0	7.38%	
P20	173.6	10	DWPE	818.0	814.0	2.30%	DL
P21	164.2	8	DWPE	831.0	818.0	7.94%	
P22	132.5	10	DWPE	818.0	814.0	3.02%	DL
P23	114.9	8	DWPE	826.5	818.0	7.42%	
P24	145.9	10	DWPE	818.0	814.0	2.74%	DL
P25A	97.2	12	PPHP	807.0	802.0	5.15%	ASC
P25B	165.0	12	PPHP	802.0	775.0	16.59%	
P26	270.3	8	DWPE	835.0	816.0	7.05%	
P27A	122.3	10	DWPE	816.0	810.6	4.43%	
P27B	122.9	10	DWPE	810.6	797.0	11.12%	
P28	144.5	12	DWPE	797.0	780.0	11.84%	DL
P29	202.8	8	DWPE	835.0	816.0	9.41%	
P30	137.9	10	DWPE	816.0	797.0	13.91%	
P31	177.3	12	DWPE	797.0	784.0	7.35%	DL
P32	203.6	8	DWPE	816.0	797.0	9.37%	
P33	124.7	10	DWPE	797.0	784.0	10.48%	DL
P34	108.7	12	PPHP	777.0	771.5	5.07%	ASC
P35	134.6	8	DWPE	811.0	804.0	5.21%	
P36	309.8	10	DWPE	804.0	765.0	12.69%	DL

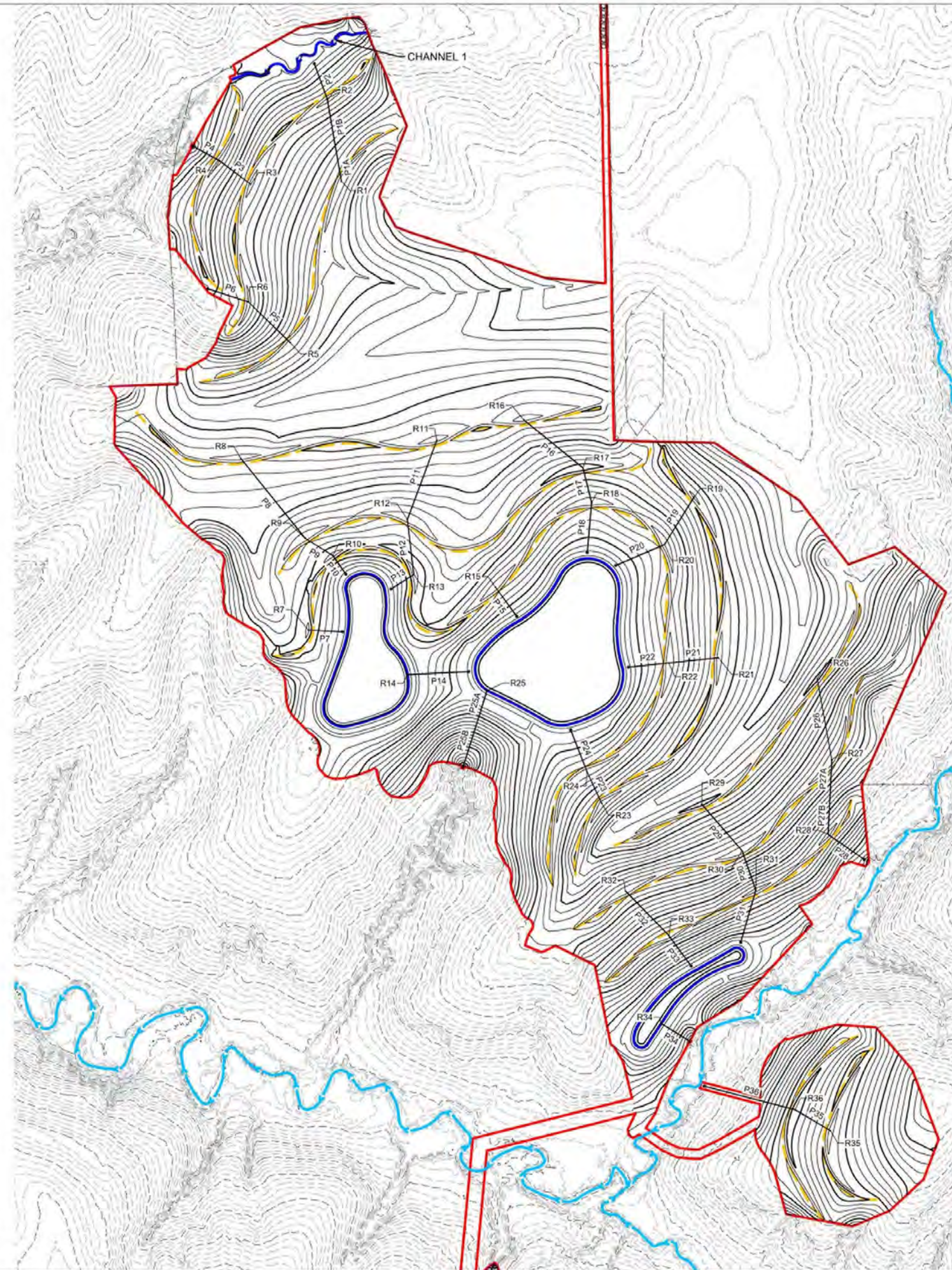
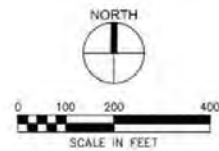
NOTE:
 ASC = 5'X5' ANTI-SEEPAGE COLLAR - SEE DETAIL
 DL = DAYLIGHT - SEE DETAIL

CHANNELS			
CHANNEL	BOTTOM WIDTH (FT)	DEPTH (FT)	SIDE SLOPES
1	4	1.2	5:1

- NOTES:
- SEE DETAILS, PIPE PROFILES, AND GRADING PLANS FOR ADDITIONAL INFORMATION.
 - PIPE LENGTHS FOR PIPES LISTED WITH "DL" IN THE NOTES COLUMN INCLUDE A 20' OUTLET SECTION
 - NO PVC OUTLET SECTION REQUIRED FOR PPHP PIPES.

RISER INTAKES				
NO.	SIZE (IN)	TYPE	TERRACE FLOWLINE / RIM ELEVATION	INVERT ELEV OUT
R1	10	MR	845.0	845.0
R2	12	MR	826.0	826.0
R3	10	MR	826.0	826.0
R4	12	MR	814.0	814.0
R5	10	MR	845.0	845.0
R6	12	MR	826.0	826.0
R7	10	MR	830.0	830.5
R8	10	MR	846.0	846.0
R9	12	MR	833.0	833.0
R10	12	MR	830.0	830.0
R11	10	MR	846.0	846.0
R12	12	MR	833.0	833.0
R13	12	MR	830.0	830.0
R14	48	CR	821.0	821.0
R15	10	MR	825.0	825.0
R16	10	MR	846.0	846.0
R17	12	MR	831.0	831.0
R18	12	MR	825.0	825.0
R19	10	MR	838.5	838.5
R20	12	MR	825.0	825.0
R21	10	MR	838.0	838.0
R22	12	MR	825.0	825.0
R23	10	MR	833.5	833.5
R24	12	MR	825.0	825.0
R25	48	CR	813.0	813.0
R26	10	MR	842.0	842.0
R27	12	MR	823.0	823.0
R28	12	MR	804.0	804.0
R29	10	MR	842.0	842.0
R30	12	MR	823.0	823.0
R31	12	MR	804.0	804.0
R32	10	MR	823.0	823.0
R33	12	MR	803.0	803.0
R34	48	CR	783.0	783.0
R35	10	MR	818.0	818.0
R36	12	MR	811.0	811.0

NOTE:
 MR = METAL RISER - SEE DETAIL
 CR = CONCRETE RISER WITH TRASH RACK - SEE DETAIL



S-H PROJECT NUMBER: 2142203050

CHKD. BY: LTM
 ISSUED: 6/27/2024
 REVISED: ---

DESIGN BY: MMO
 DRAWN BY: ANI

DIVISION OF SOIL CONSERVATION
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 IOWA DEPARTMENT OF AGRICULTURE
 AND LAND STEWARDSHIP
 HENRY A. WALLACE BUILDING
 502 E. 9th STREET, DES MOINES, IOWA 50319
 (515) 281-4246



PELLA NORTH AND SOUTH
 AML RECLAMATION PROJECT
 DRAINAGE PLAN - PELLA NORTH

SHIVEHATTERY
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 515.225.1044 | Fax 515.225.0022 | shivehattery.com
 Iowa | Illinois | Missouri | Minnesota | Wisconsin | Indiana | Ohio | Kentucky | Tennessee | Mississippi | Alabama | Georgia | Florida

PIPES							
NO.	LENGTH (FT)	DIAMETER (IN)	MATERIAL	UPSTREAM INVERT (FT)	DOWNSTREAM INVERT (FT)	SLOPE	NOTES
P37	145.2	8	DWPE	783.0	773.0	6.90%	DL
P38	161.3	8	DWPE	800.0	785.0	9.34%	
P39	81.3	10	DWPE	785.0	782.0	3.69%	DL
P40	103.5	8	DWPE	800.0	799.0	0.97%	DL
P41A	81.5	12	PPHP	790.0	788.0	2.45%	ASC
P41B	167.4	12	PPHP	788.0	774.0	8.39%	
P42A	135.4	8	DWPE	825.5	817.7	5.79%	
P42B	136.1	8	DWPE	817.7	802.0	11.59%	
P43	87.8	10	DWPE	802.0	797.0	5.70%	DL
P44A	84.0	12	PPHP	798.0	792.0	7.16%	ASC
P44B	172.5	12	PPHP	792.0	763.6	16.67%	
P45	217.5	10	DWPE	836.0	832.0	1.84%	
P46	289.5	10	DWPE	832.0	823.0	3.11%	
P47A	90.8	12	DWPE	823.0	821.5	1.65%	
P47B	91.2	12	DWPE	821.5	813.0	9.37%	
P48	122.6	12	DWPE	813.0	805.0	6.54%	DL
P49	167.3	8	DWPE	832.0	823.0	5.39%	
P50	210.6	10	DWPE	823.0	813.0	4.75%	
P51	100.5	12	DWPE	813.0	805.0	7.99%	DL
P52	205.7	8	DWPE	832.0	823.0	4.38%	
P53	133.9	10	DWPE	823.0	813.0	7.49%	
P54	144.9	12	DWPE	813.0	805.0	5.53%	DL
P55	216.7	8	DWPE	828.0	817.0	5.08%	DL
P56	187.5	8	DWPE	828.0	817.0	5.88%	DL
P57	107.1	12	PPHP	811.0	809.9	1.03%	ASC

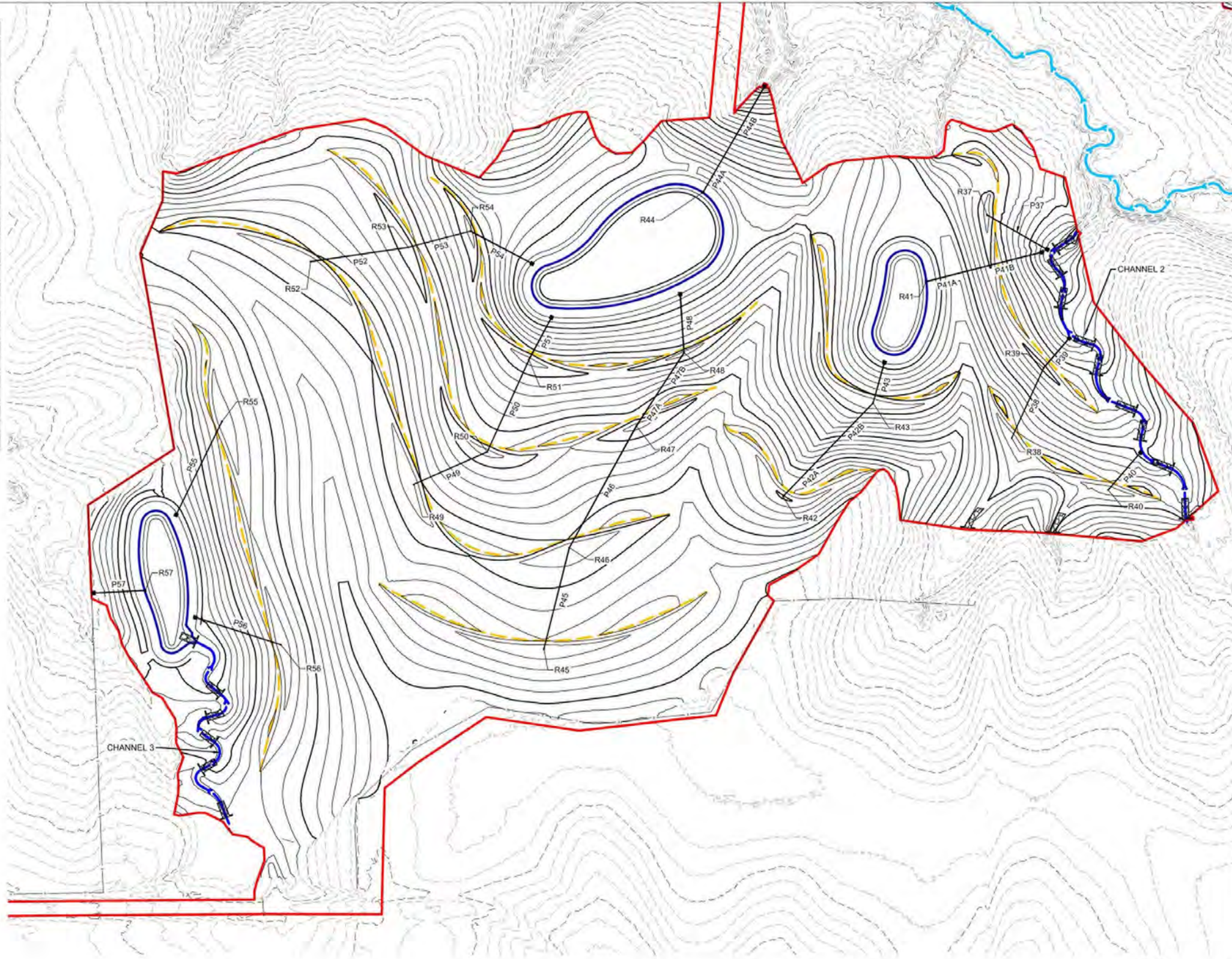
NOTE:
 ASC = 5'X5' ANTI-SEEPAGE COLLAR - SEE DETAIL
 DL = DAYLIGHT - SEE DETAIL

RISER INTAKES				
NO.	SIZE (IN)	TYPE	TERRACE FLOWLINE / RIM ELEVATION	INVERT ELEV OUT
R37	10	MR	790.0	790.0
R38	10	MR	807.0	807.0
R39	12	MR	792.0	792.0
R40	10	MR	807.0	807.0
R41	48	CR	796.0	796.0
R42	10	MR	832.5	832.5
R43	12	MR	809.0	809.0
R44	48	CR	804.0	804.0
R45	10	MR	843.0	843.0
R46	12	MR	839.0	839.0
R47	12	MR	830.0	830.0
R48	12	MR	820.0	820.0
R49	10	MR	839.0	839.0
R50	12	MR	830.0	830.0
R51	12	MR	820.0	820.0
R52	10	MR	839.0	839.0
R53	12	MR	831.0	831.0
R54	12	MR	820.0	820.0
R55	10	MR	835.0	835.0
R56	10	MR	835.0	835.0
R57	48	CR	816.0	816.0

NOTE:
 MR = METAL RISER - SEE DETAIL
 CR = CONCRETE RISER WITH TRASH RACK - SEE DETAIL

CHANNELS			
CHANNEL	BOTTOM WIDTH (FT)	DEPTH (FT)	SIDE SLOPES
2	4	1.2	5:1
3	4	1.2	5:1

- NOTES:
- SEE DETAILS, PIPE PROFILES, AND GRADING PLANS FOR ADDITIONAL INFORMATION.
 - PIPE LENGTHS FOR PIPES LISTED WITH "DL" IN THE NOTES COLUMN INCLUDE A 20' OUTLET SECTION
 - NO PVC OUTLET SECTION REQUIRED FOR PPHP PIPES.



S-H PROJECT NUMBER: 2142203050

REVISED: ---
 ISSUED: 6/27/2024
 CHKD. BY: LTM

DESIGN BY: MMO
 DRAWN BY: ANI

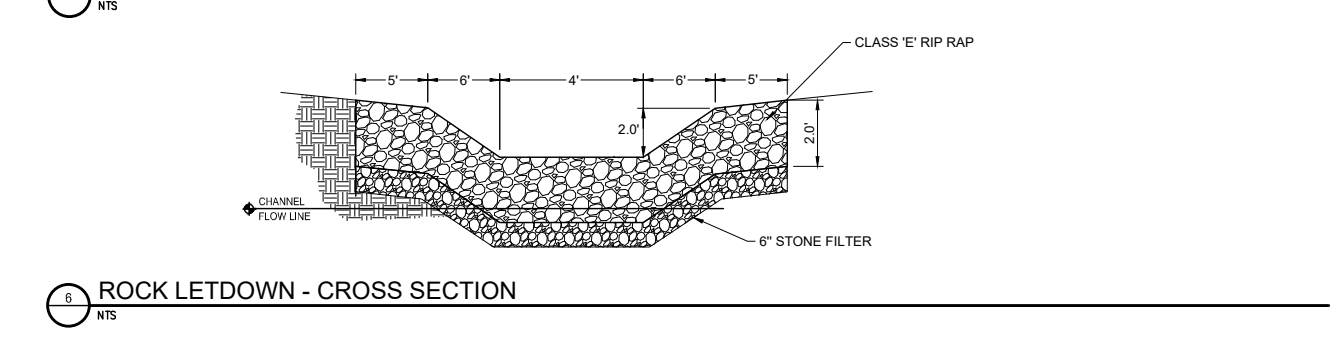
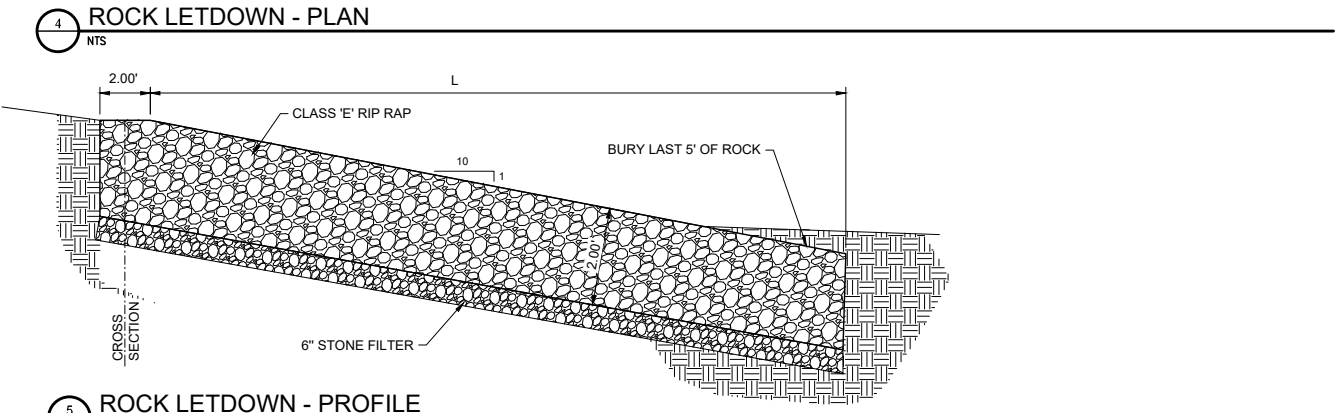
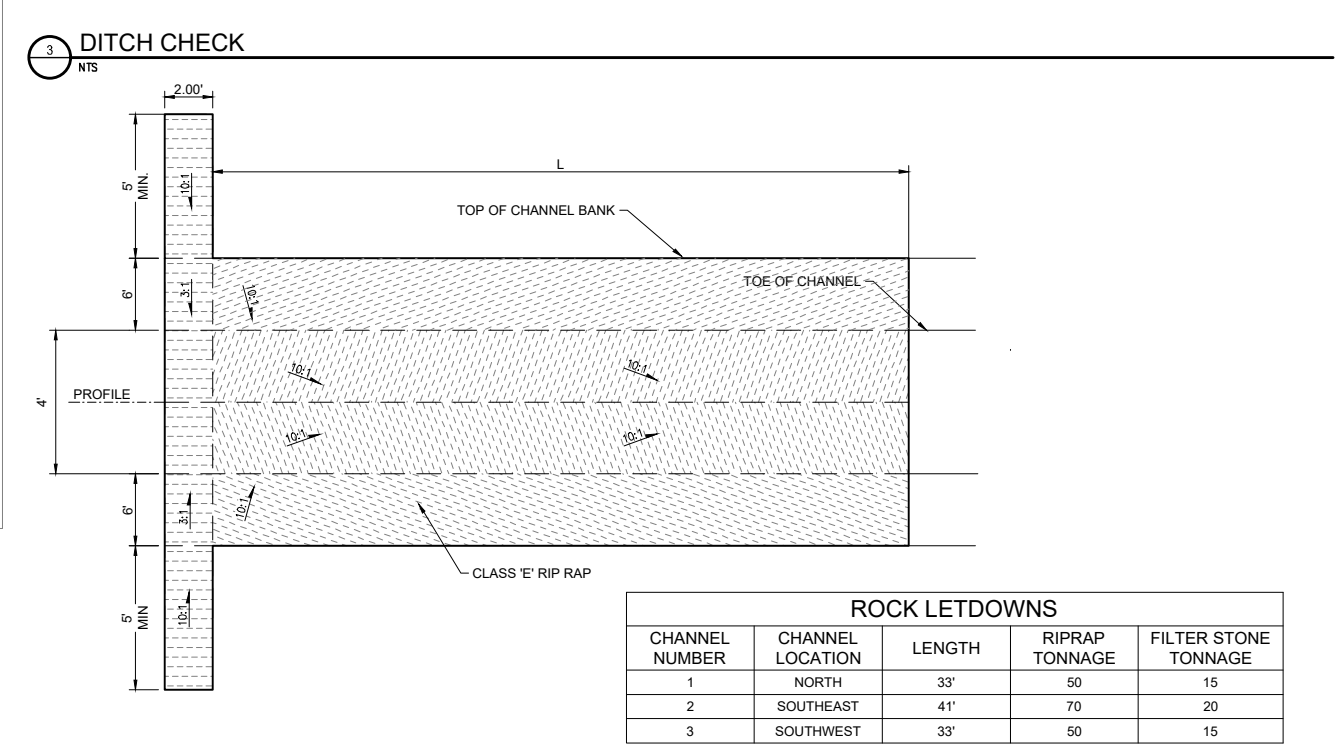
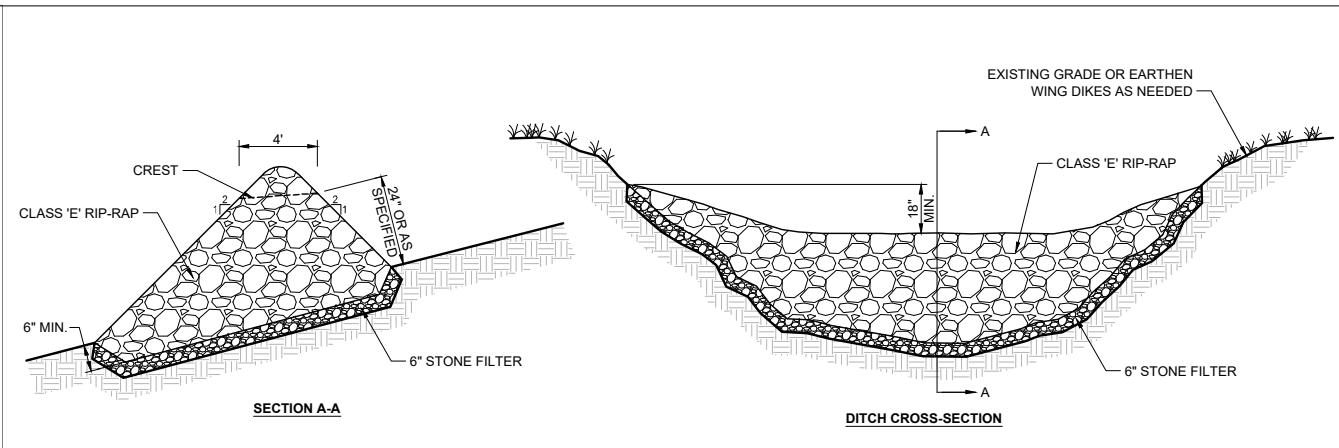
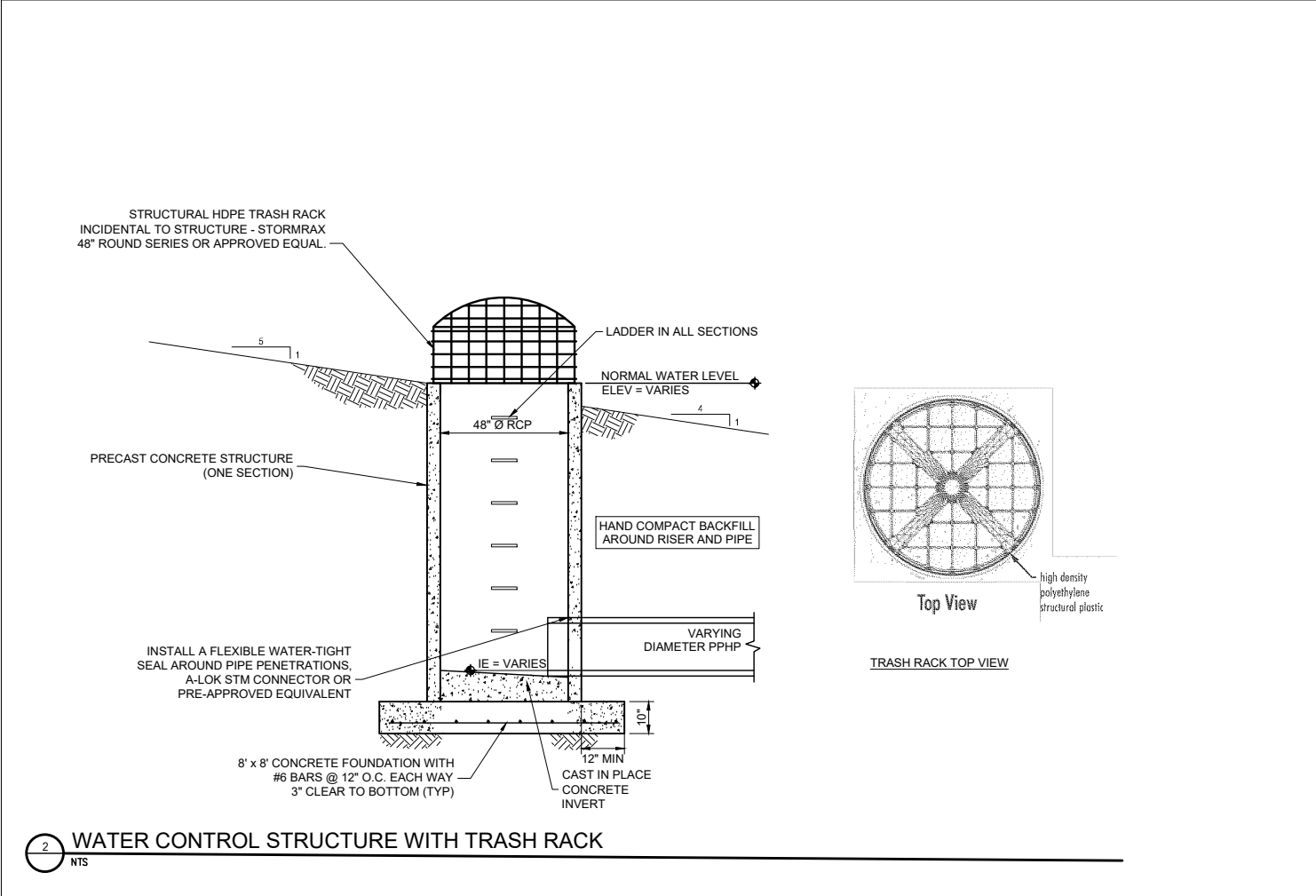
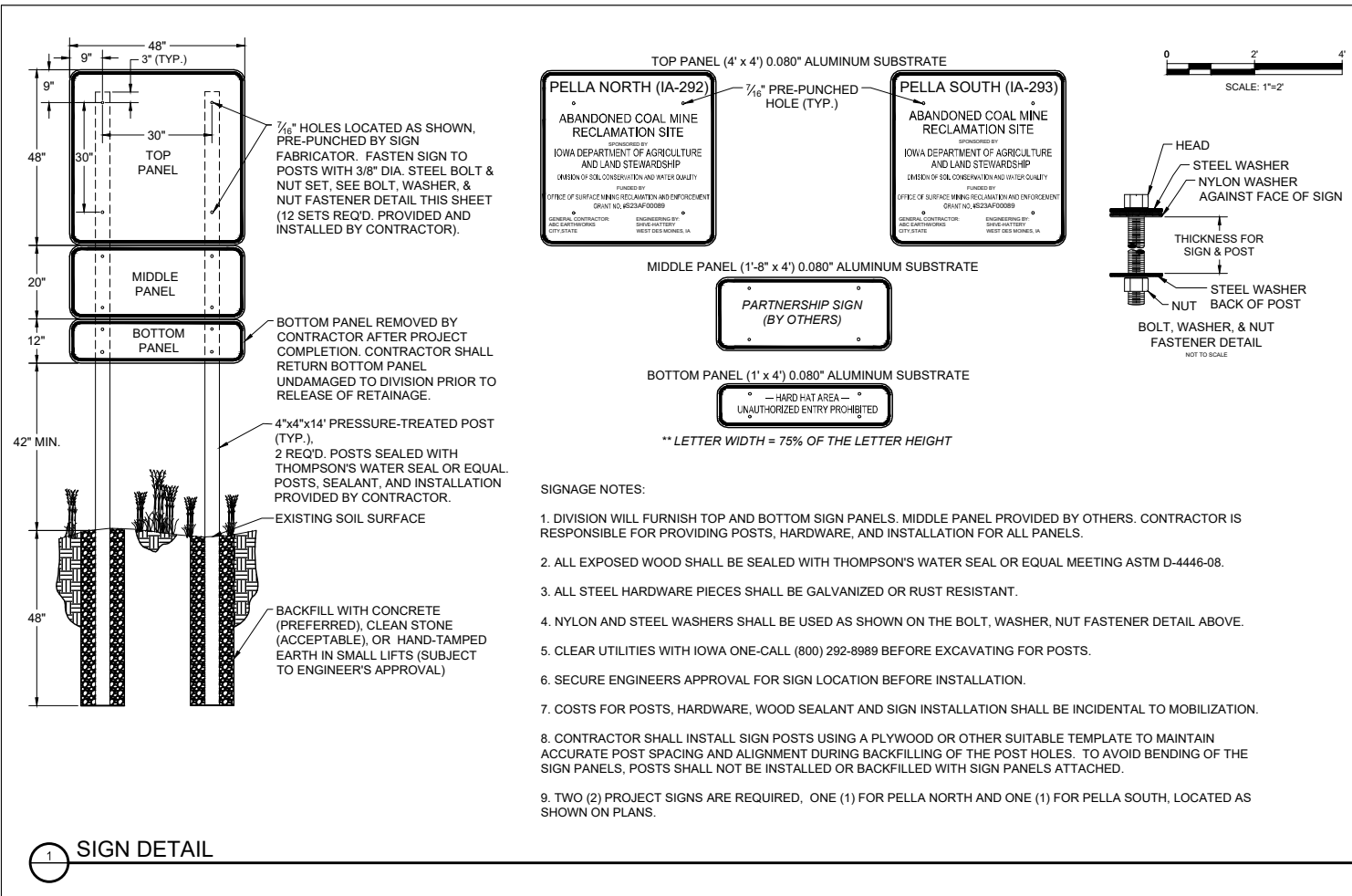
DIVISION OF SOIL CONSERVATION
 AND WATER QUALITY
 IOWA DEPARTMENT OF AGRICULTURE
 AND LAND STEWARDSHIP
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PELLA NORTH AND SOUTH
 AML RECLAMATION PROJECT
 DRAINAGE PLAN - PELLA SOUTH



SH-PROJECT NUMBER: 2142203050

SHIVEHATTERY ARCHITECTURE+ENGINEERING

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Iowa | Illinois | Missouri | Illinois Firm Number: 184-000214

ISSUED: 6/27/2024

REVISOR: ---

CHKD. BY: LTM

DRAWN BY: MMO

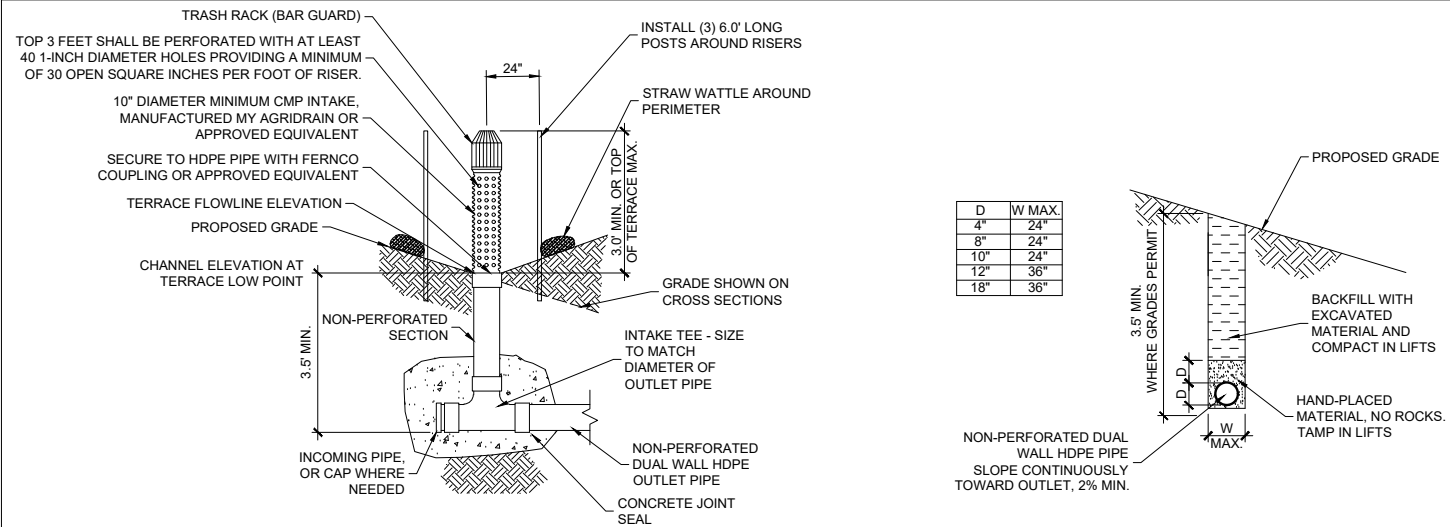
DESIGN BY: MMO

DIVISION OF SOIL CONSERVATION AND WATER QUALITY
IOWA DEPARTMENT OF AGRICULTURE AND LAND STEWARDSHIP
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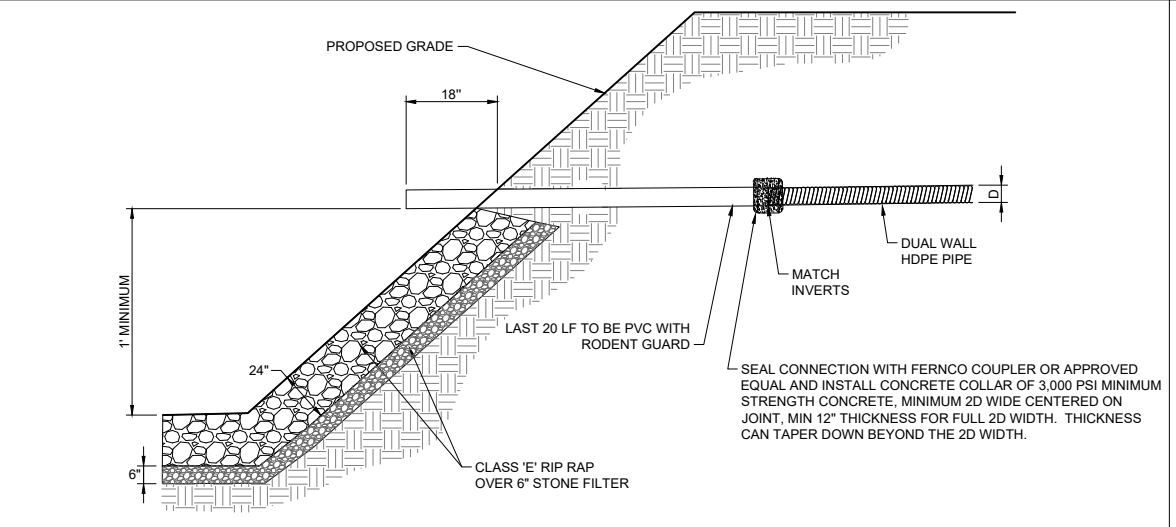
PELLA NORTH AND SOUTH AML RECLAMATION PROJECT

PROJECT DETAILS

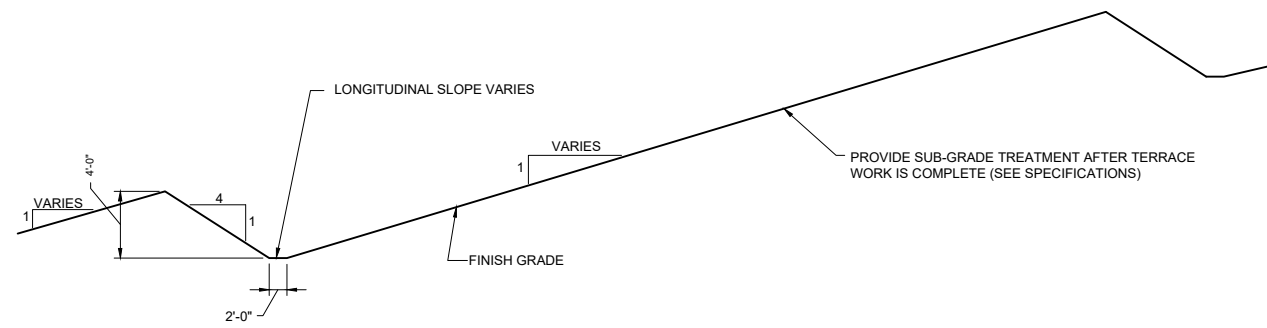
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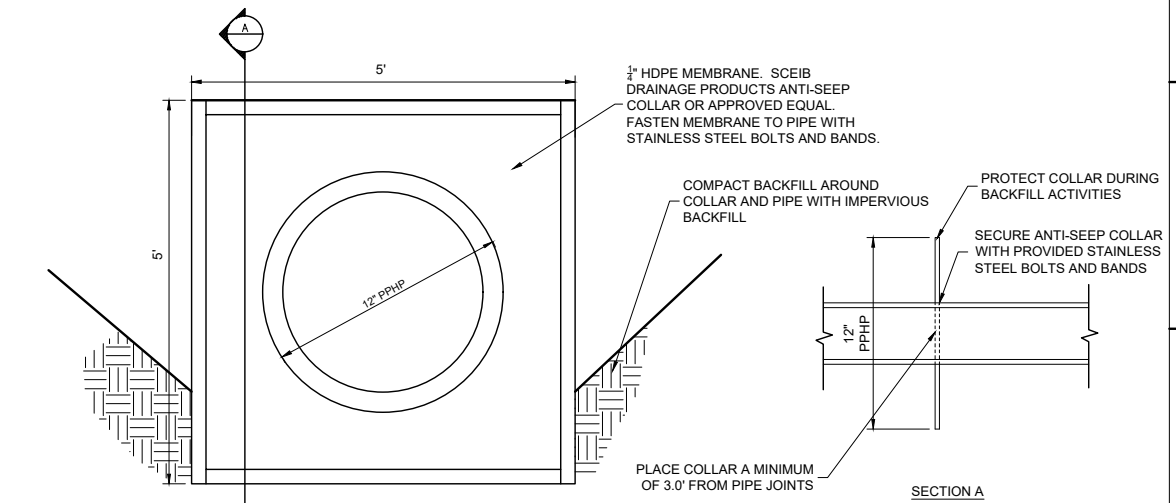
1 CMP RISER - TERRACE



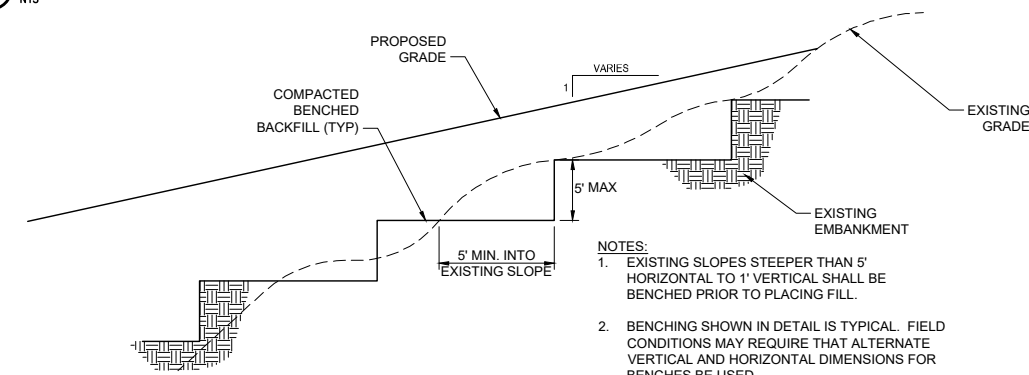
5 PIPE OUTLET PROTECTION



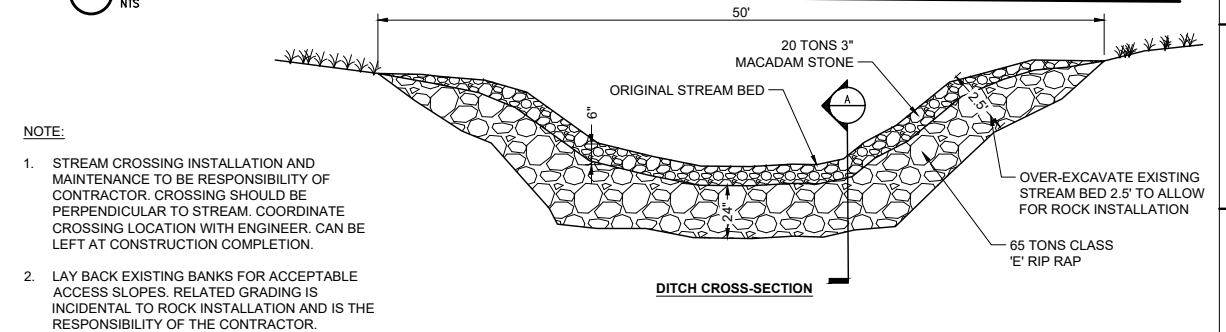
2 TERRACE - 4' HEIGHT



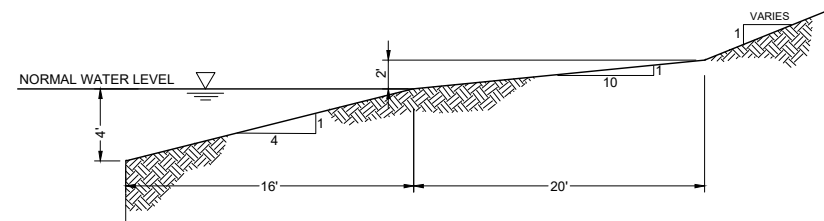
6 HDPE ANTI-SEEPAGE COLLAR



3 TYPICAL BENCHING DETAIL



7 CONSTRUCTION STREAM CROSSING



4 TYPICAL WETLAND EDGE

S-H PROJECT NUMBER: 2142203050

SHIVEHATTERY
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Iowa | Illinois | Missouri | Illinois Firm Number: 184-000214

ISSUED: 6/27/2024

REVISION: ---

CHKD. BY: LTM

ANI

DRAWN BY: MMO

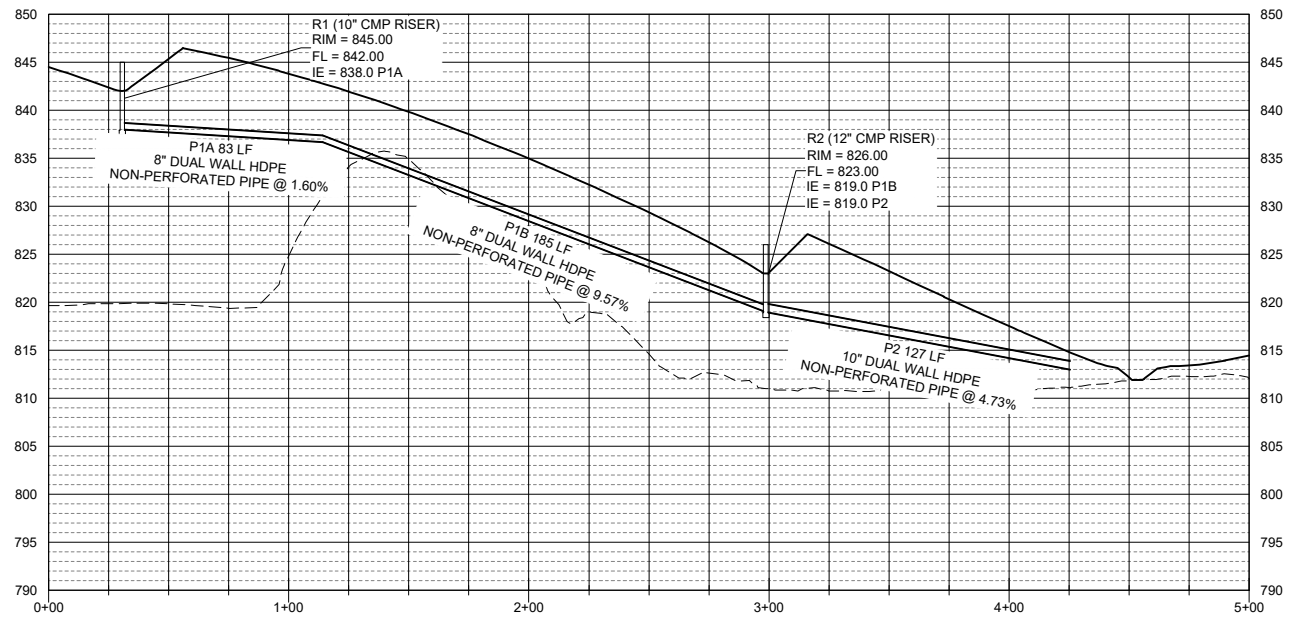
DESIGN BY: MMO

DIVISION OF SOIL CONSERVATION
AND WATER QUALITY
IOWA DEPARTMENT OF AGRICULTURE
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HENRY A. WALLACE BUILDING
502 E. 9th STREET, DES MOINES, IOWA 50319
(515) 281-4246



PELLA NORTH AND SOUTH
AML RECLAMATION PROJECT

PROJECT DETAILS



P1-2 PROFILE

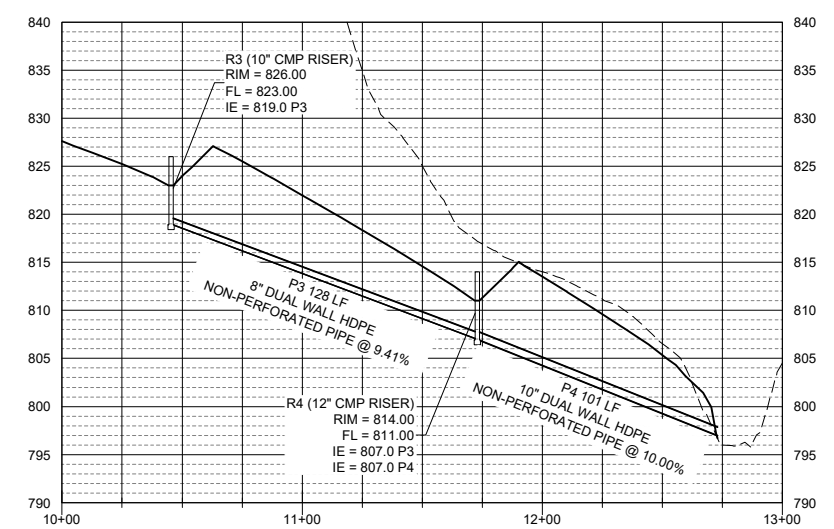
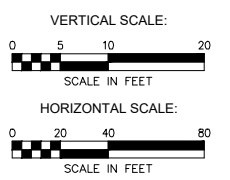
PPHP PIPE COVER INFORMATION

SIZE (IN)	MIN (FT)	MAX (FT)
12"	1	16

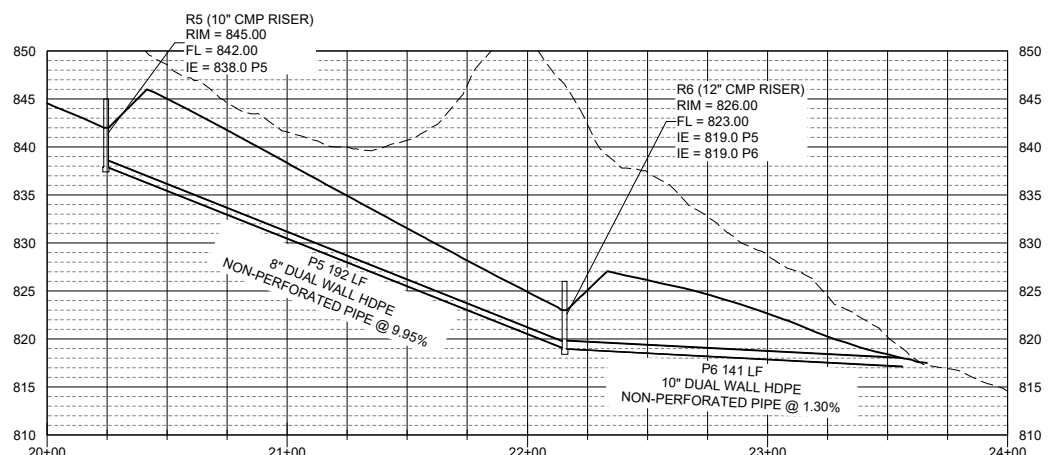
HDPE PIPE COVER INFORMATION

SIZE (IN)	MIN (FT)	MAX (FT)
8"	1	11
10"	1	11
12"	1	11

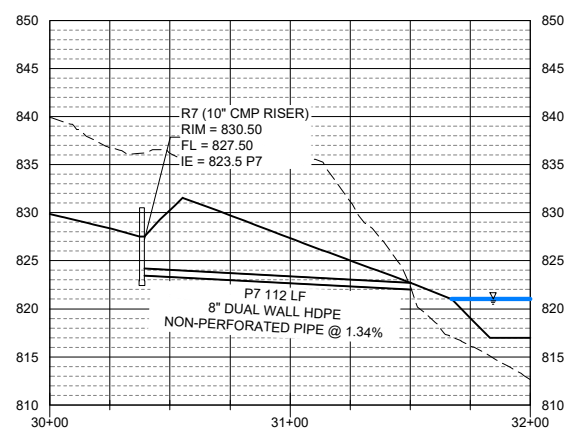
- NOTES:
- PIPE PROFILES ARE SHOWN FOR CONTEXT. MAINTAIN A MINIMUM PIPE SLOPE OF 1% AND DO NOT EXCEED MAX PIPE COVER LISTED IN TABLES ABOVE. REFER TO PROJECT SPECIFICATIONS FOR TRENCH SIZE, BEDDING, BACKFILL REQUIREMENTS. PIPES INSTALLED THROUGH FILL ZONES REQUIRE WAITING PERIOD AFTER PROPOSED GRADES ARE ACHIEVED AND PRIOR TO PIPE INSTALLATION. REFER TO PROJECT SPECIFICATIONS.
 - WHERE PIPES ARE SHOWN TO OUTLET BELOW GRADE, CREATE 4' WIDE SWALE FROM PIPE OUTLET TO FLOWLINE OF NEAREST CHANNEL OR NORMAL WATER LEVEL OF NEAREST WETLAND.



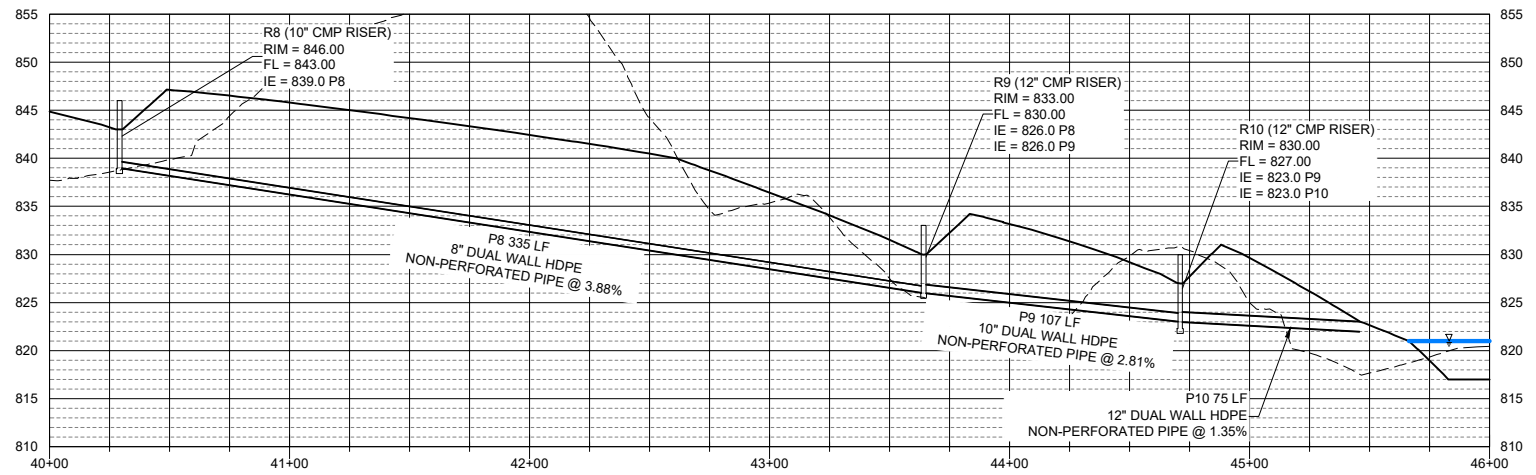
P3-4 PROFILE



P5-6 PROFILE



P7 PROFILE



P8-10 PROFILE

S-H PROJECT NUMBER: 2142203050

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DESIGN BY: MMO
 DRAWN BY: ANI

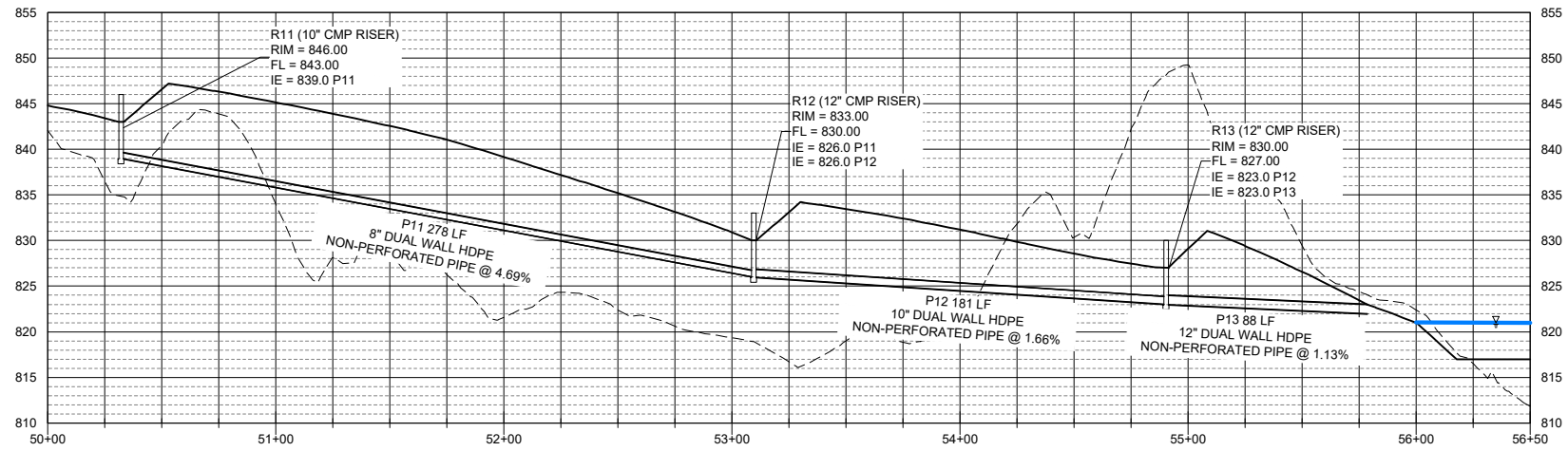
DIVISION OF SOIL CONSERVATION
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 IOWA DEPARTMENT OF AGRICULTURE
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 HENRY A. WALLACE BUILDING
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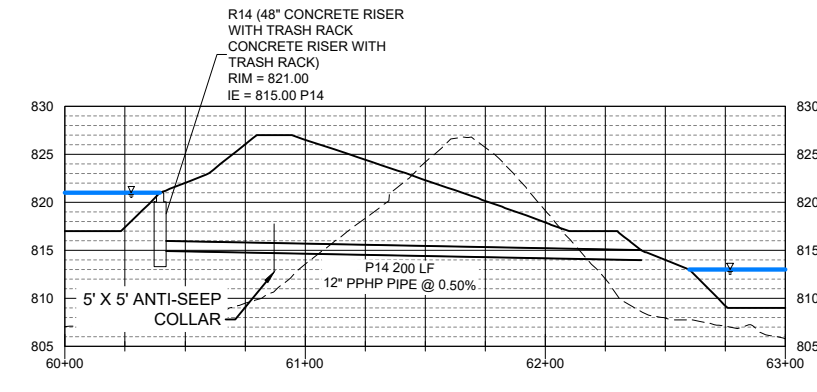
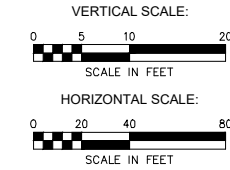
PELLA NORTH AND SOUTH
 AML RECLAMATION PROJECT

PIPE PROFILES

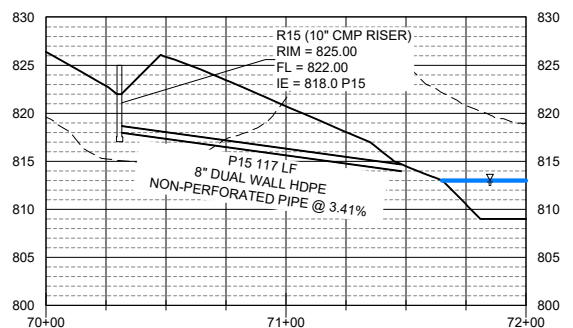
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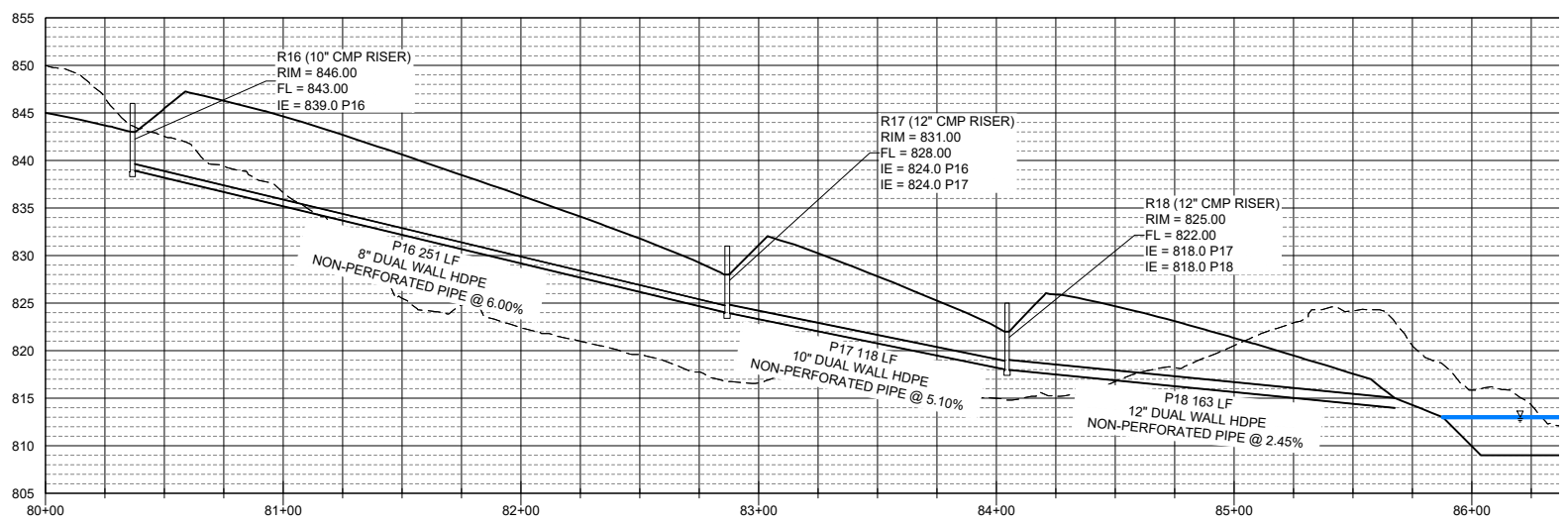
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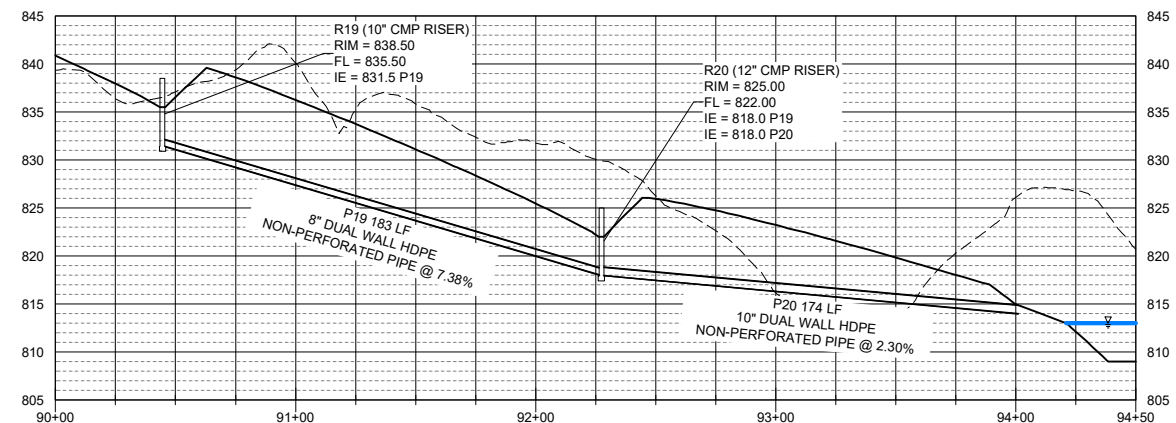
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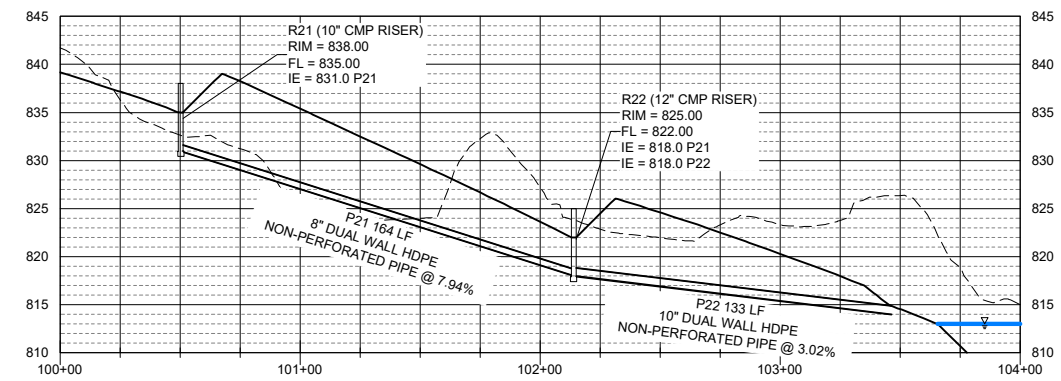
P15 PROFILE



P16-18 PROFILE



P19-20 PROFILE



P21-22 PROFILE

S-H PROJECT NUMBER: 2142203050

REVISED: ---

ISSUED: 6/27/2024

CHKD. BY: LTM

ANI

DRAWN BY: ANI

MMO

DESIGN BY: MMO

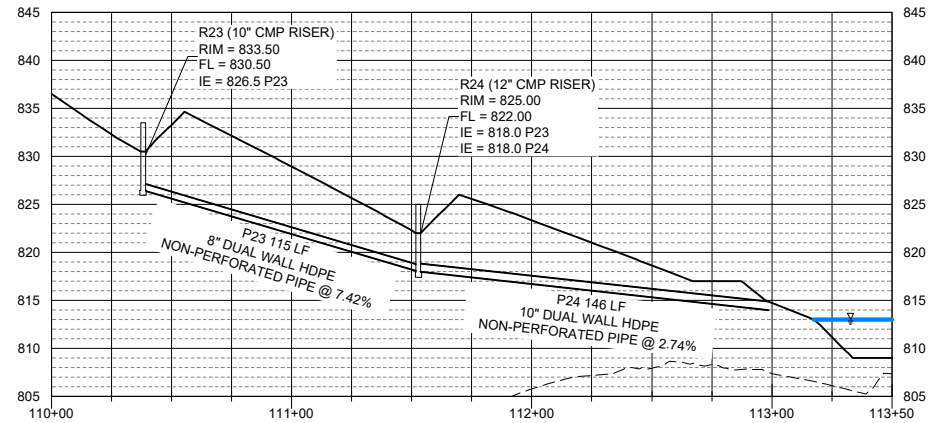
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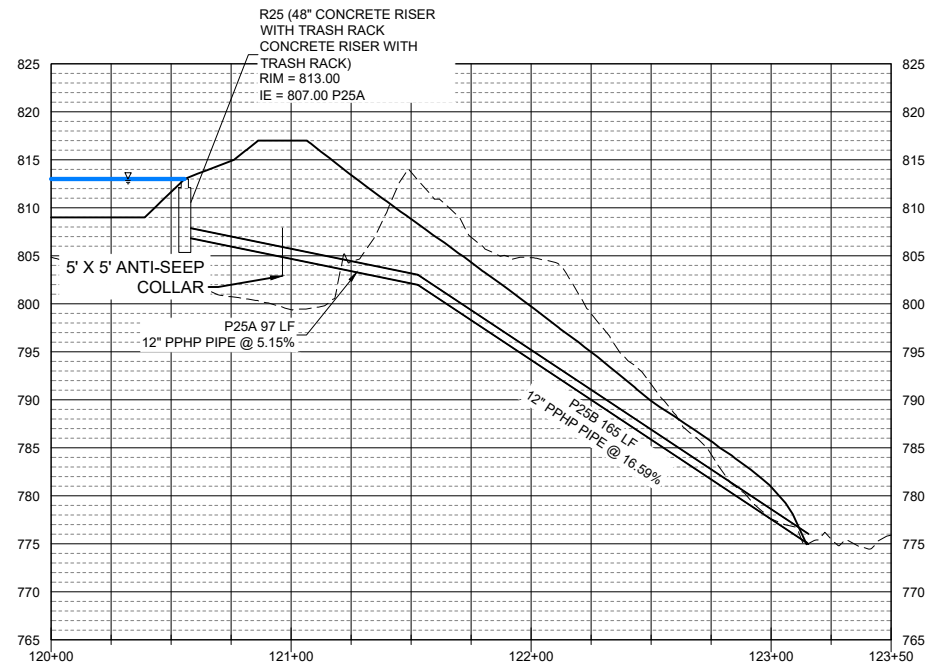
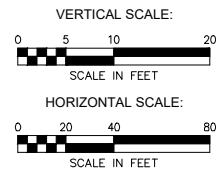
PELLA NORTH AND SOUTH
AML RECLAMATION PROJECT

PIPE PROFILES

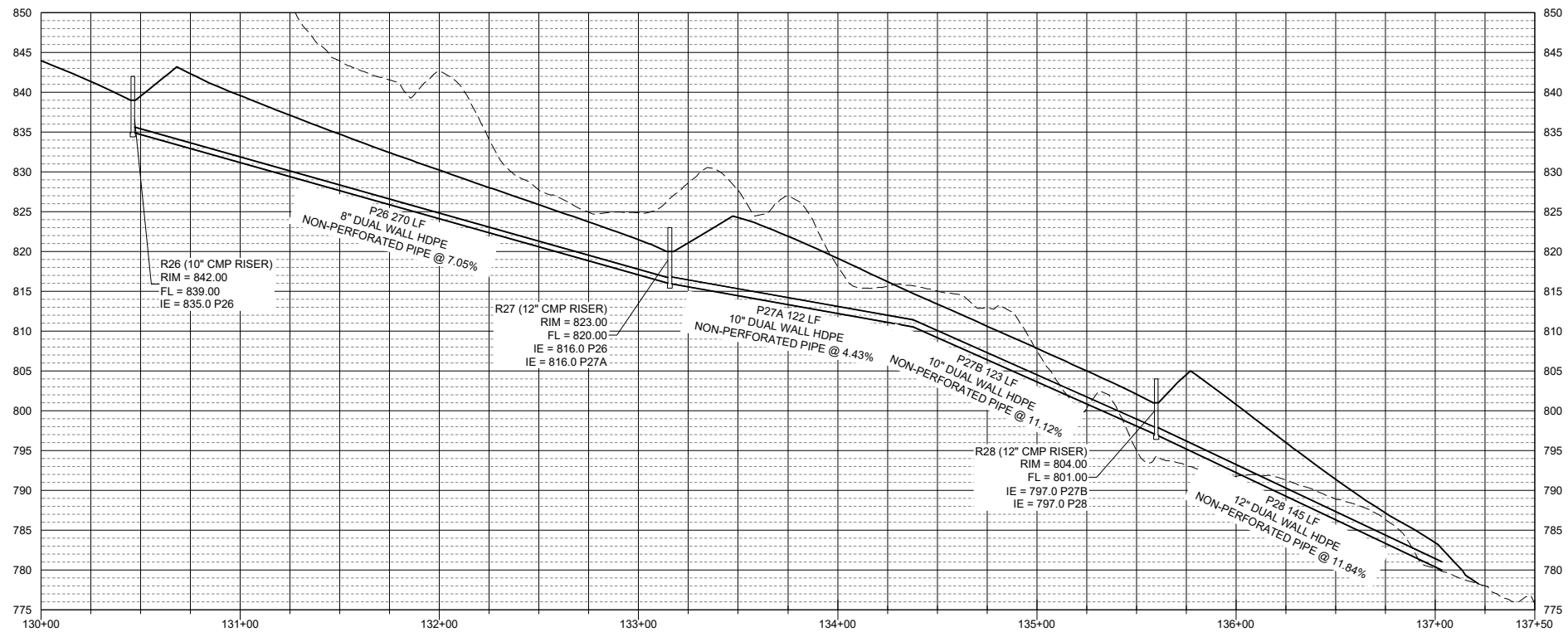
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P23-24 PROFILE



P25 PROFILE



P26-28 PROFILE

S-H PROJECT NUMBER: 2142203050

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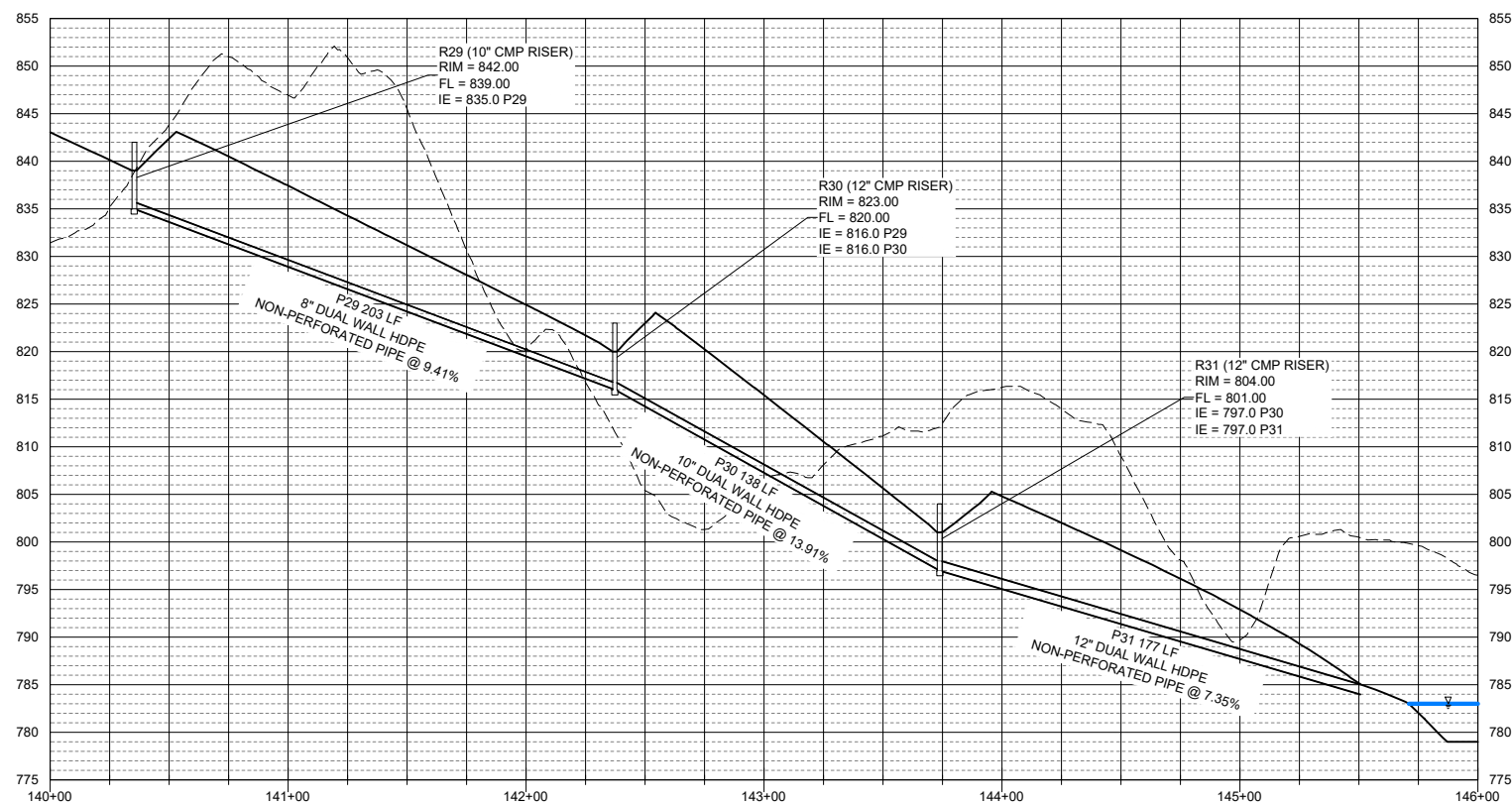
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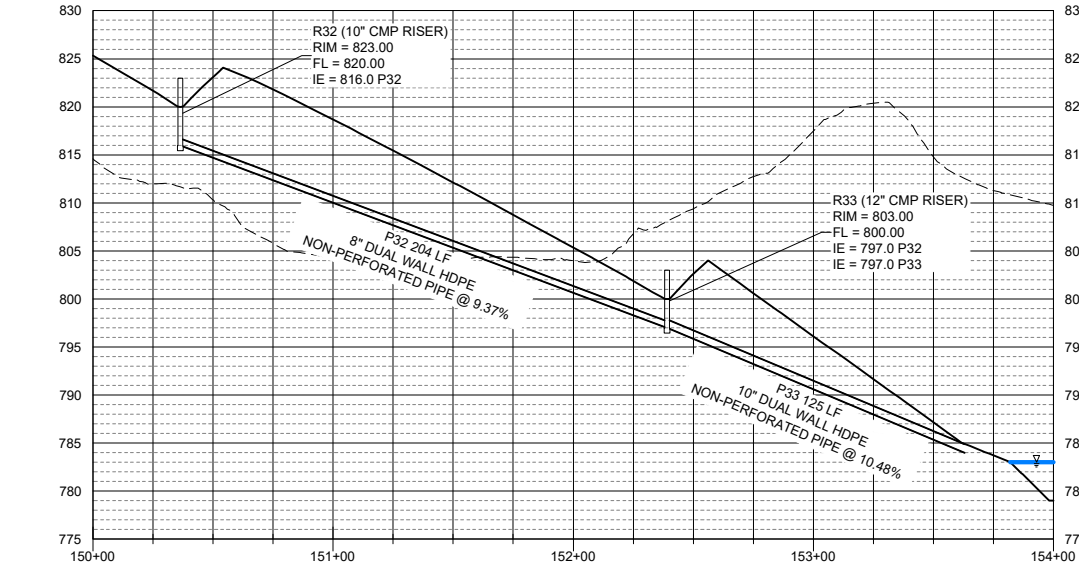


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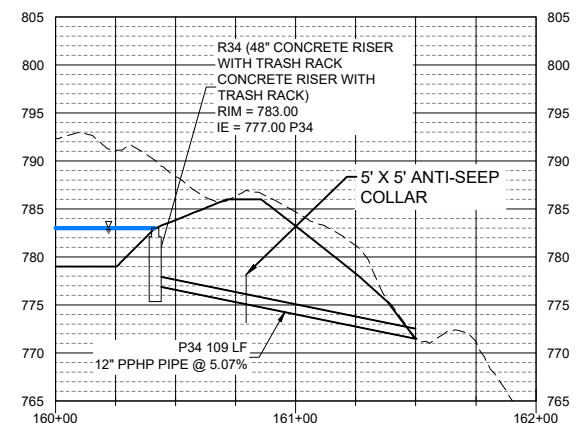
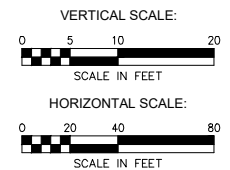
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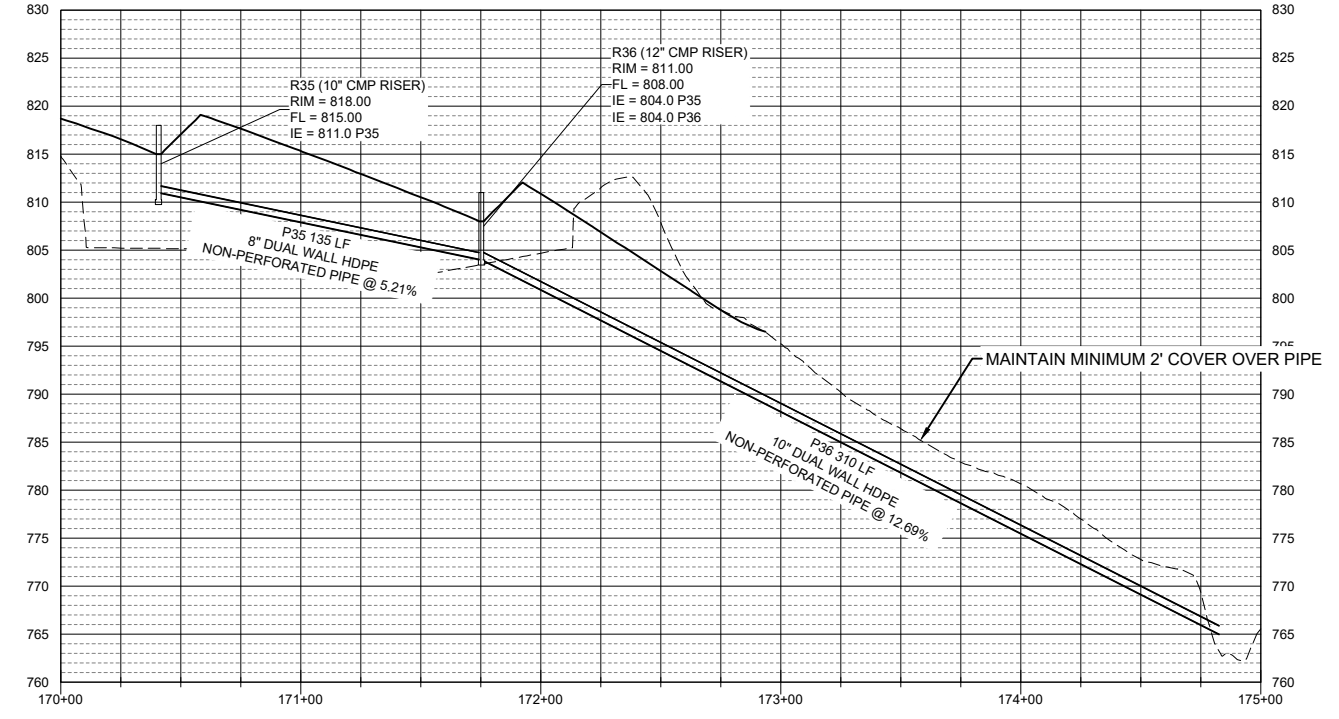
P29-31 PROFILE



P32-33 PROFILE



P34 PROFILE



P35-36 PROFILE

DESIGN BY: MMO DRAWN BY: ANI CHKD. BY: LTM ISSUED: 6/27/2024 REVISED: --- S-H PROJECT NUMBER: 2142203050

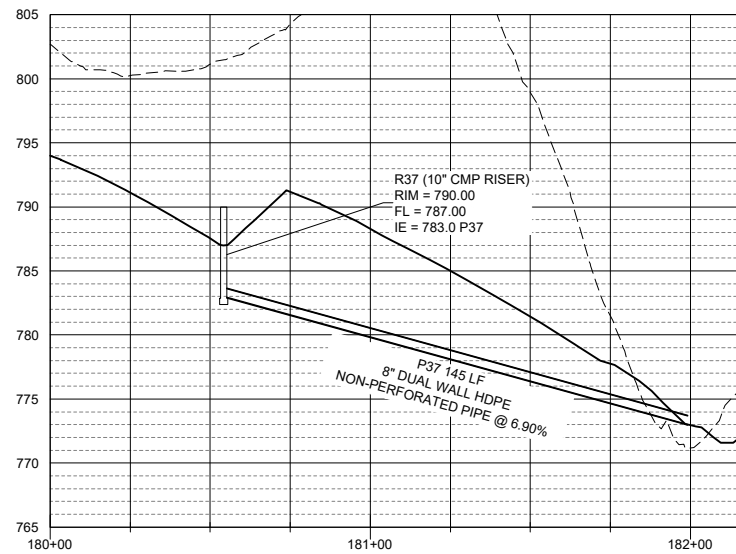
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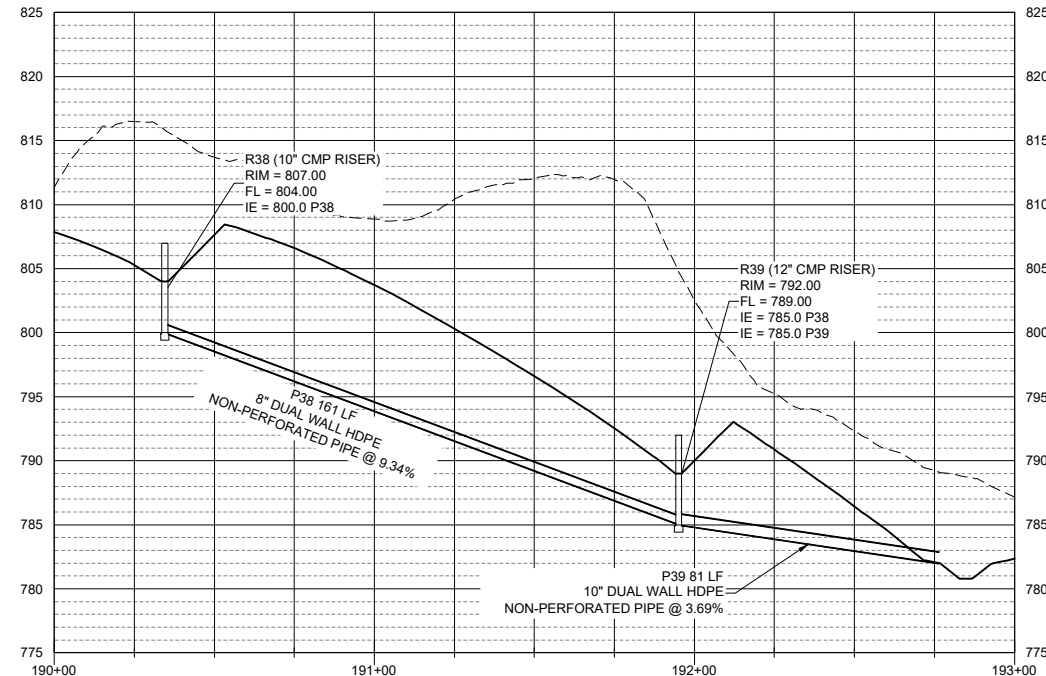
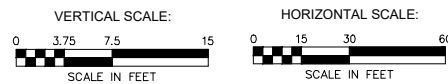
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PIPE PROFILES

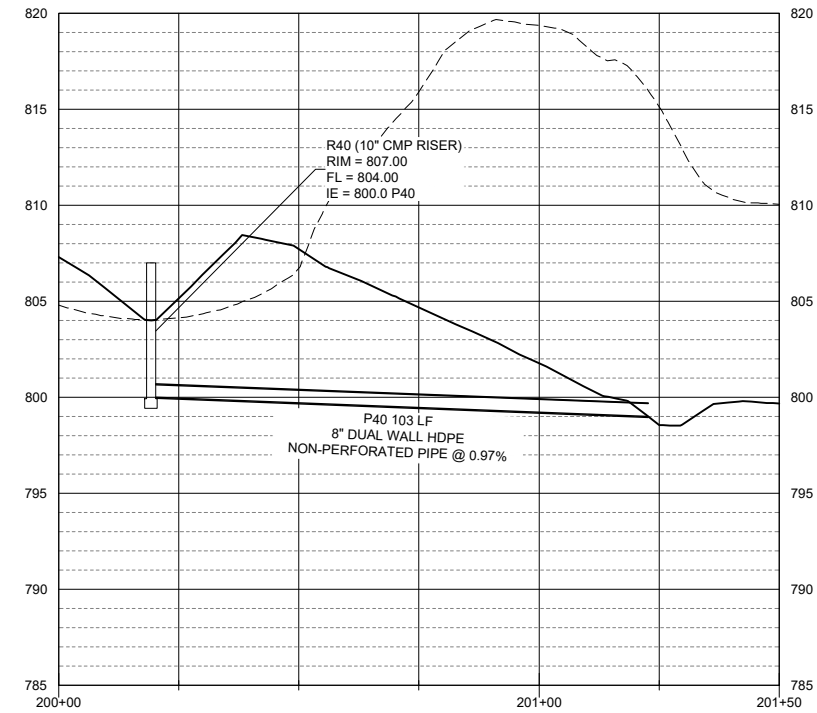
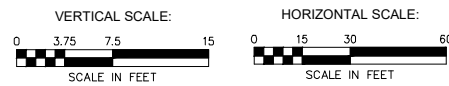
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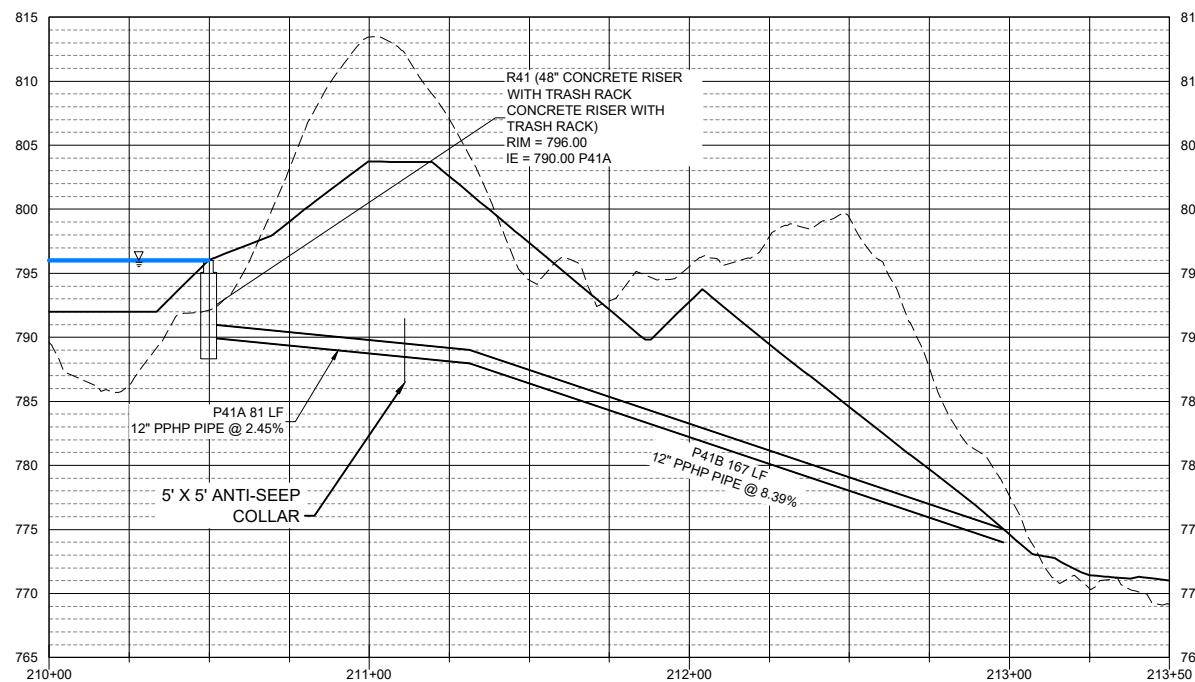
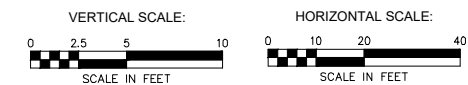
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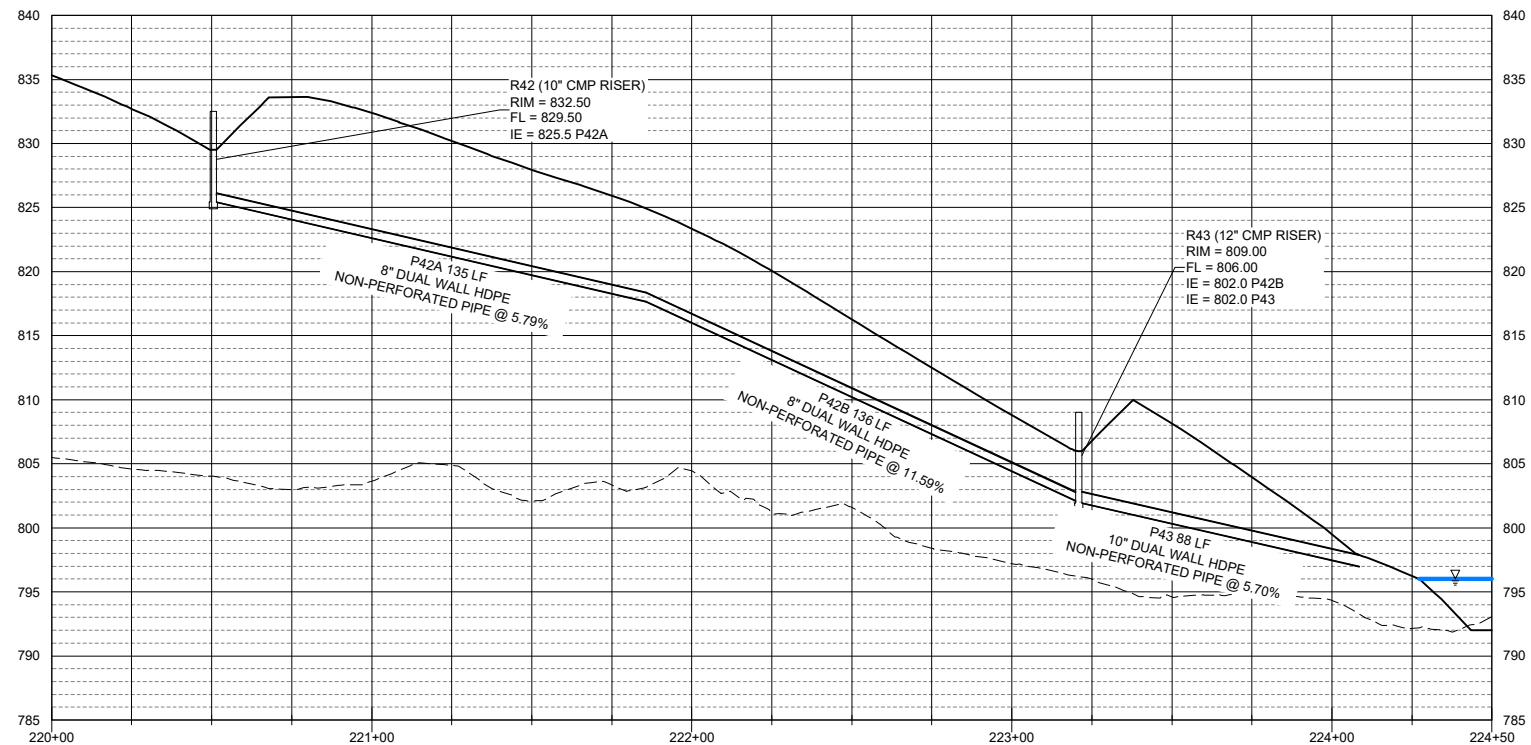
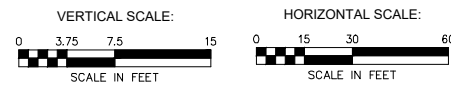
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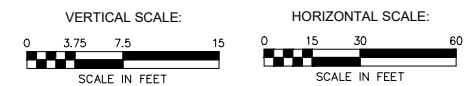
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P41 PROFILE



P42-43 PROFILE



S-H PROJECT NUMBER: 2142203050

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DRAWN BY:

MMO

DESIGN BY:

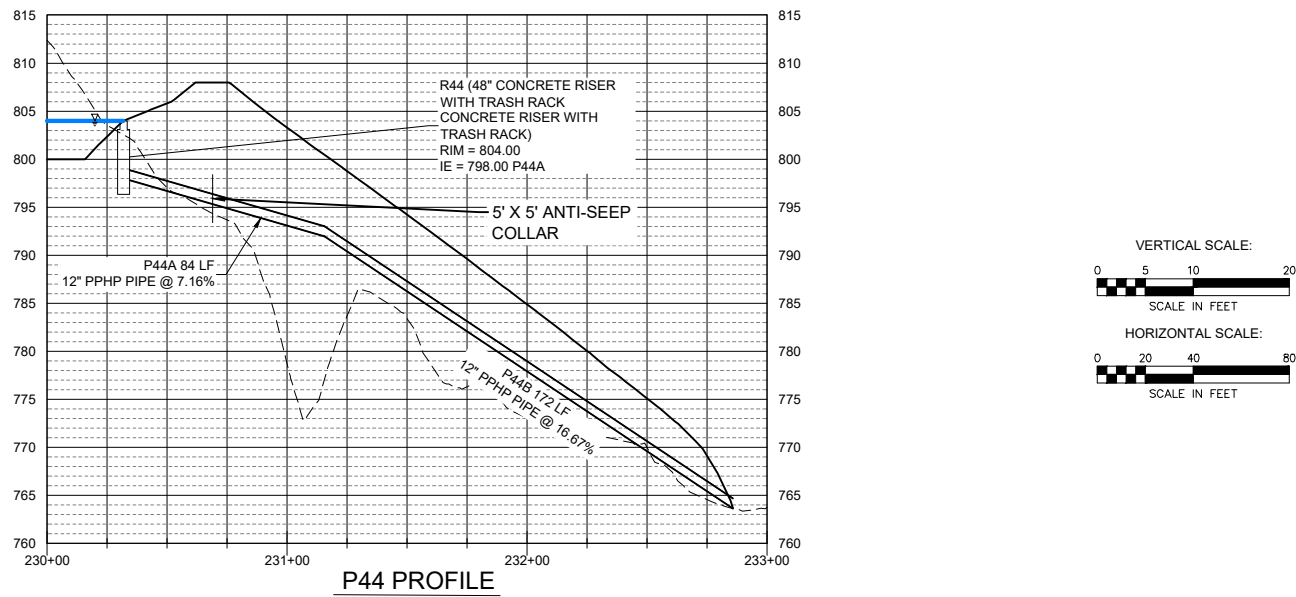
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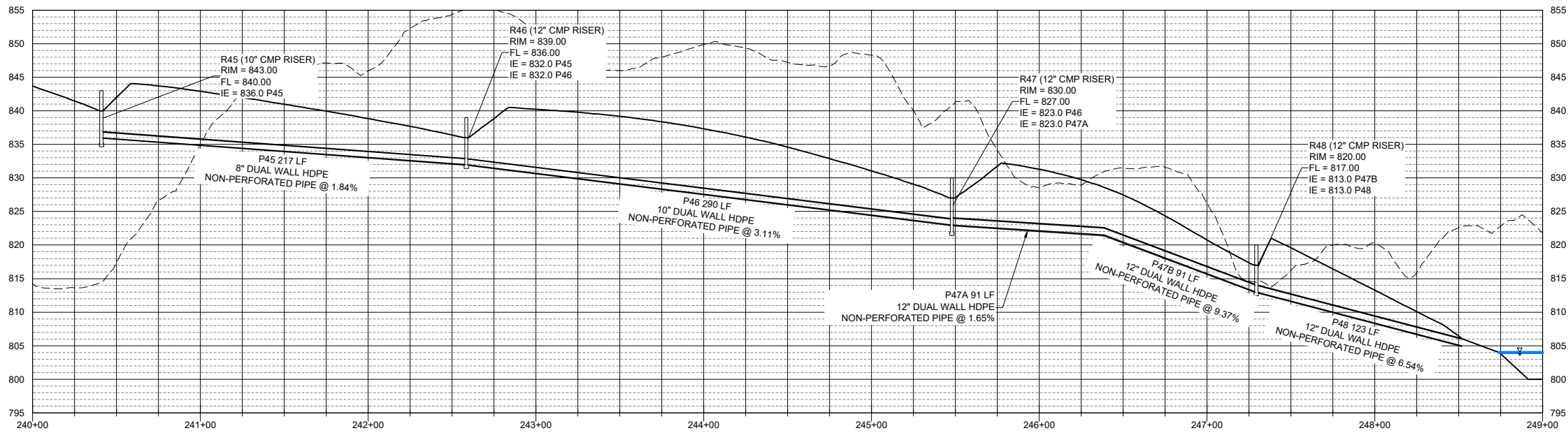
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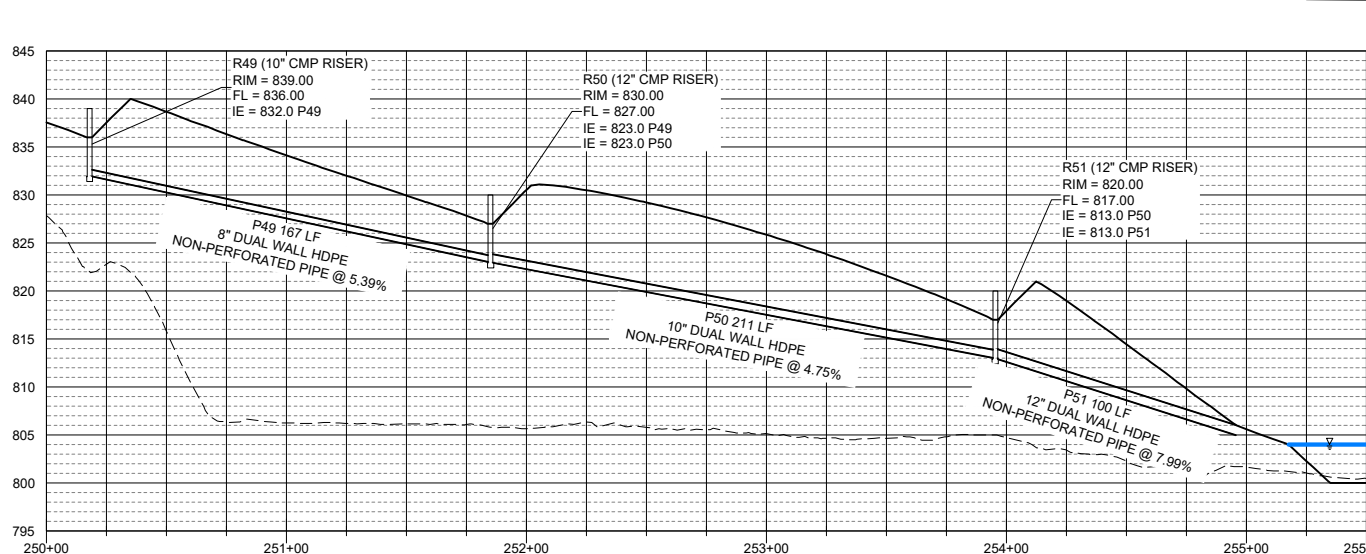
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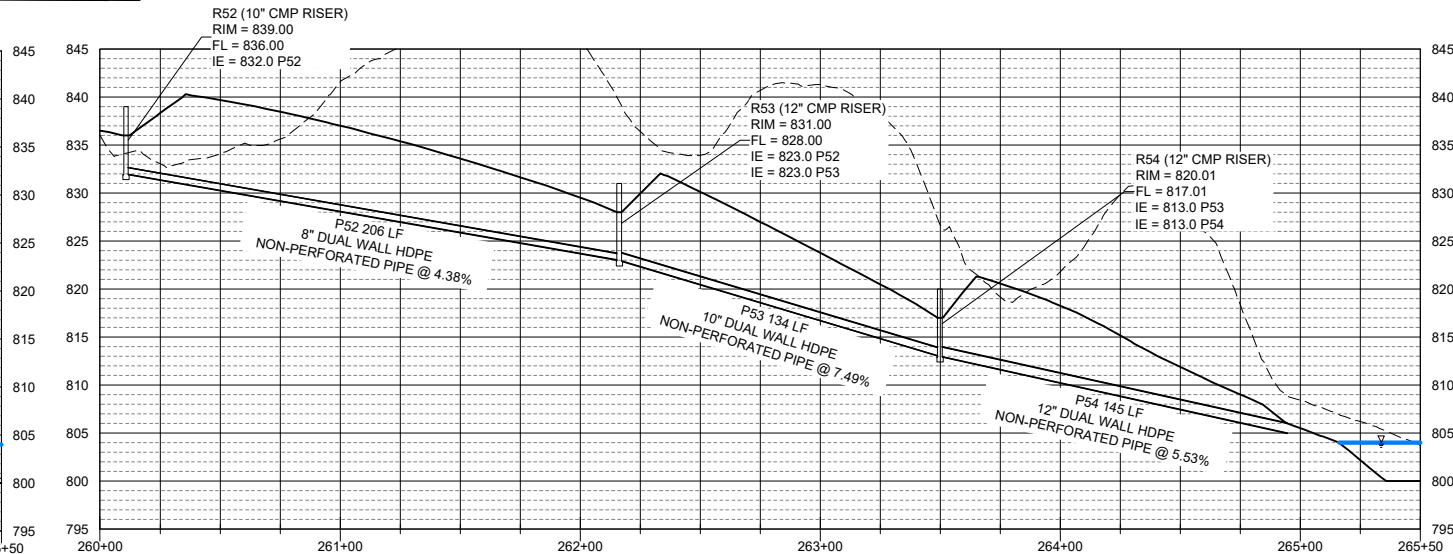
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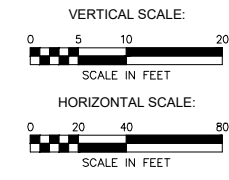
P45-48 PROFILE



P49-51 PROFILE



P52-54 PROFILE



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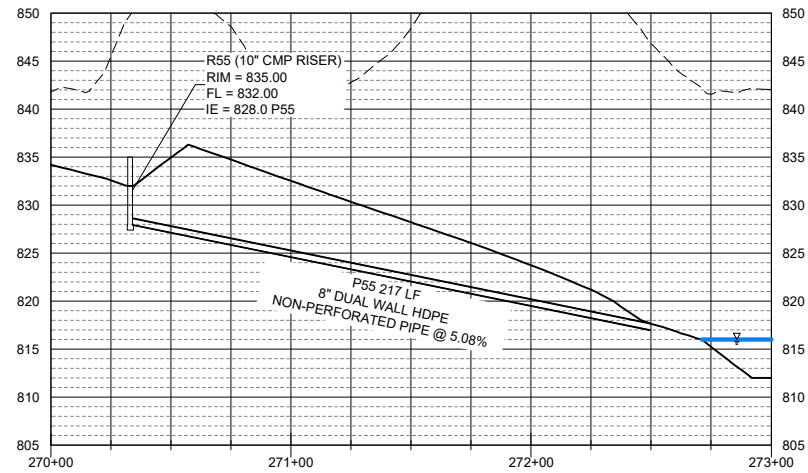
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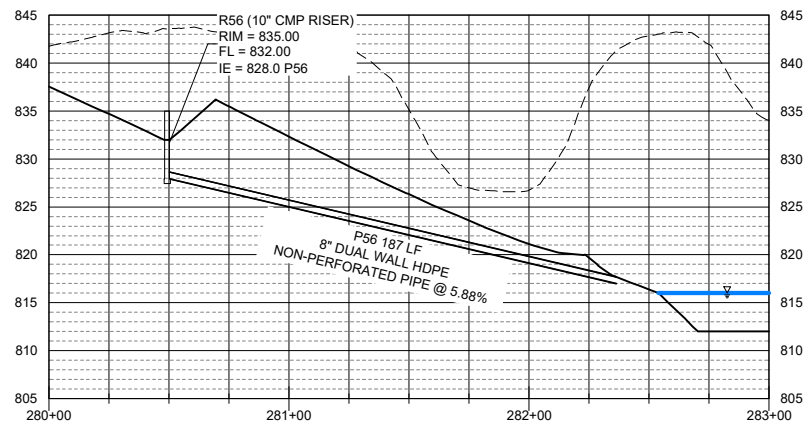
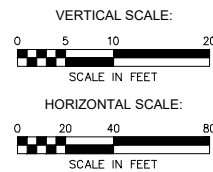


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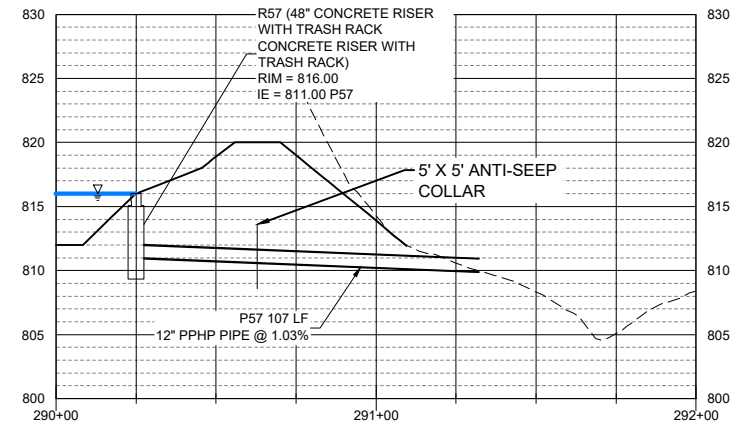
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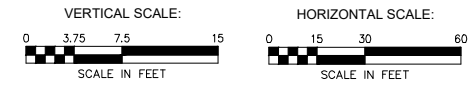
P55 PROFILE



P56 PROFILE



P57 PROFILE



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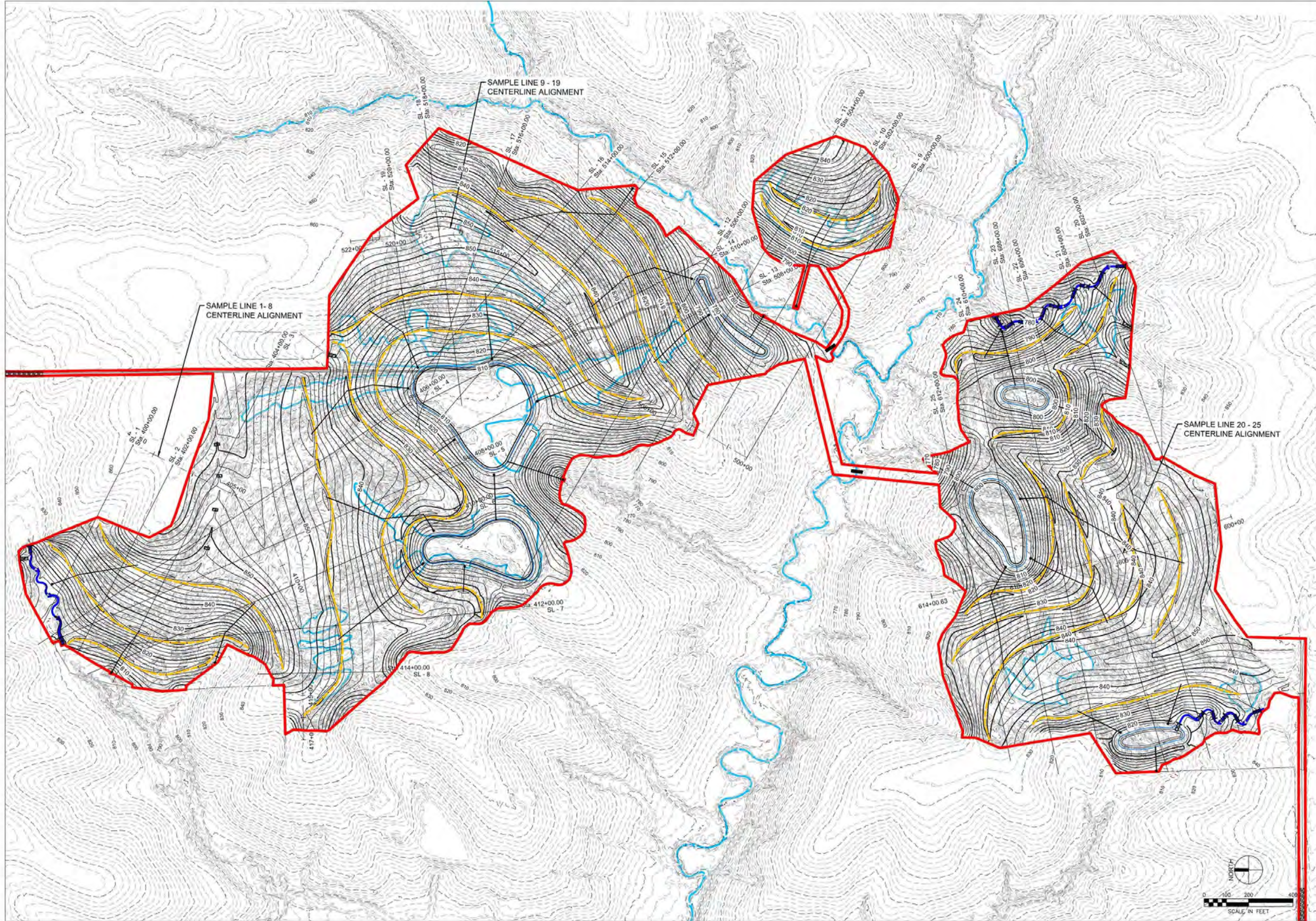
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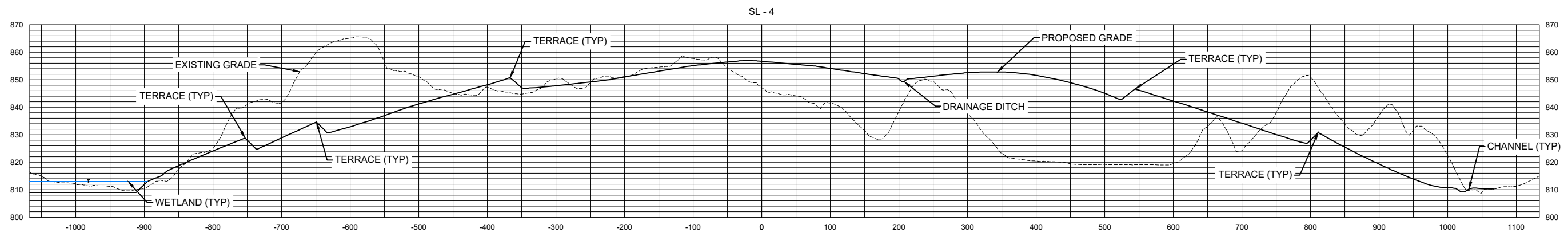
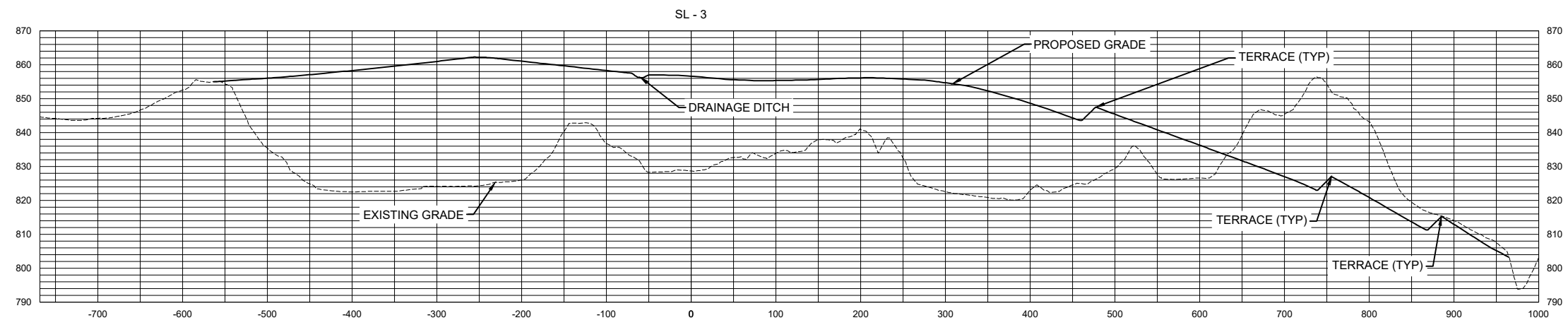
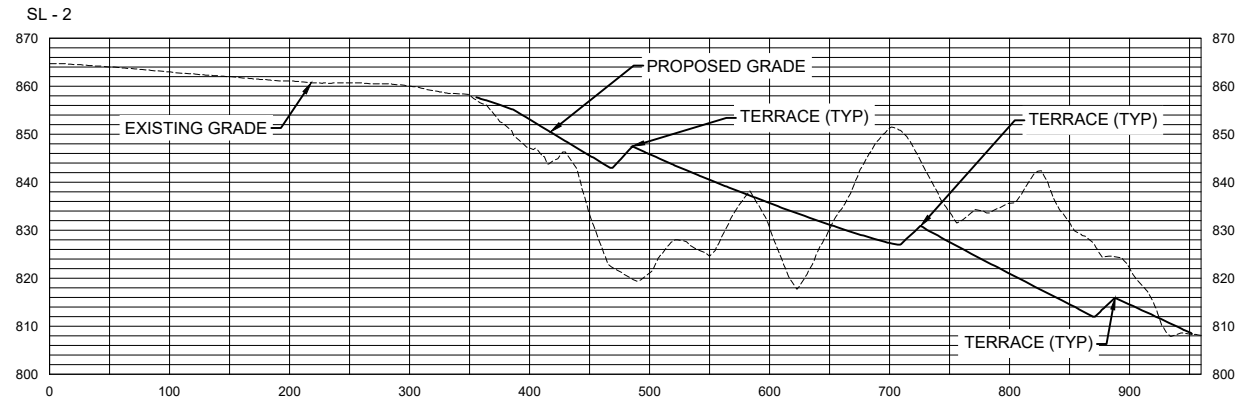
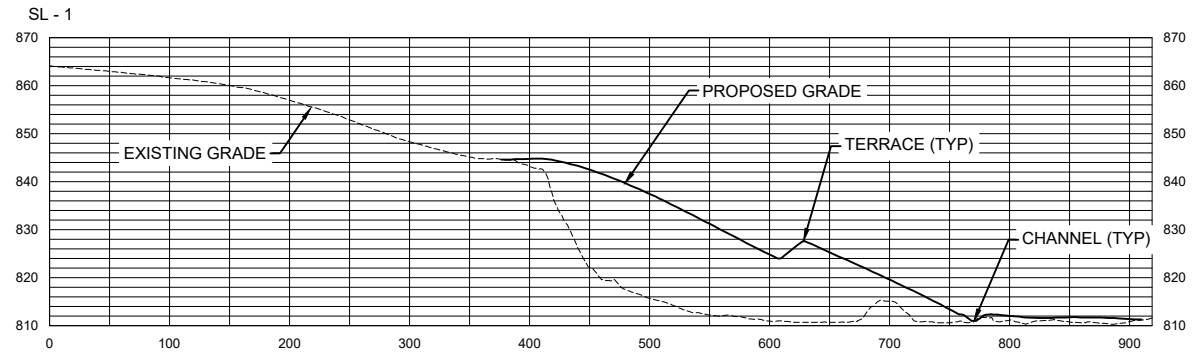
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 DRAWN BY: ANI

PELLA NORTH AND SOUTH
 AML RECLAMATION PROJECT

PIPE PROFILES



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CROSS SECTION PLAN					
SHEET 31 OF 43			SHIVEHATTERY ARCHITECTURE+ENGINEERING 4425 Western Parkway, Suite 100 West Des Moines, Iowa 50366 515.225.6104 Fax: 515.225.0022 shivehattery.com Iowa Illinois Missouri Rhode Island Wisconsin Minnesota North Dakota South Dakota		



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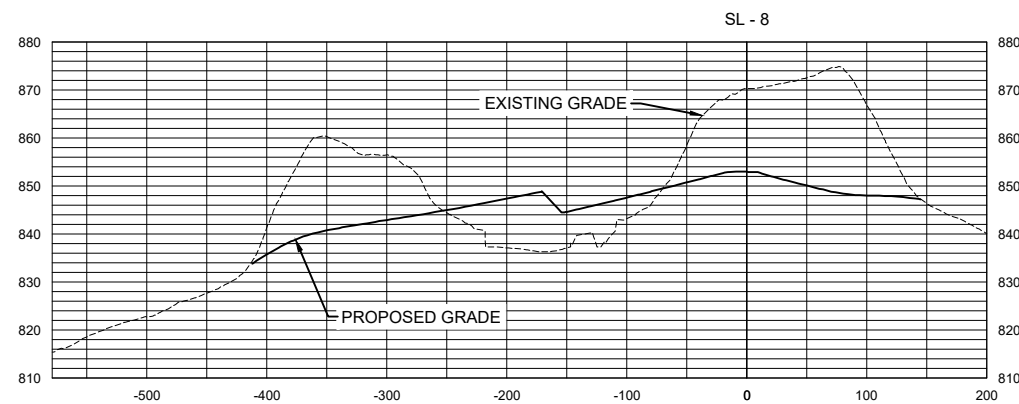
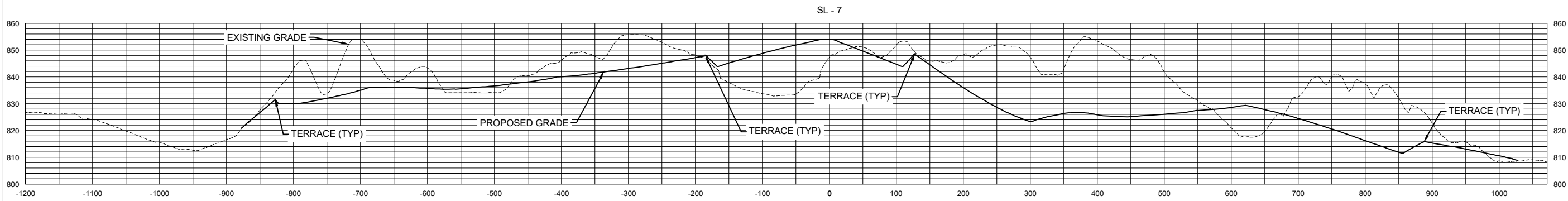
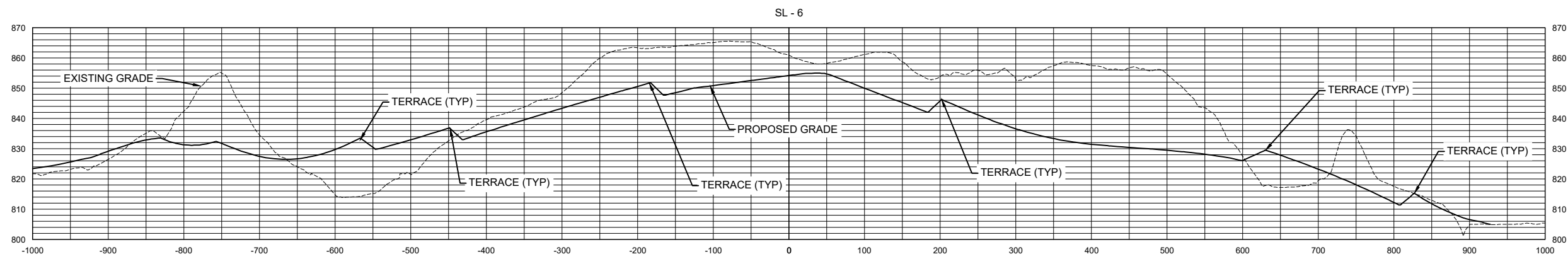
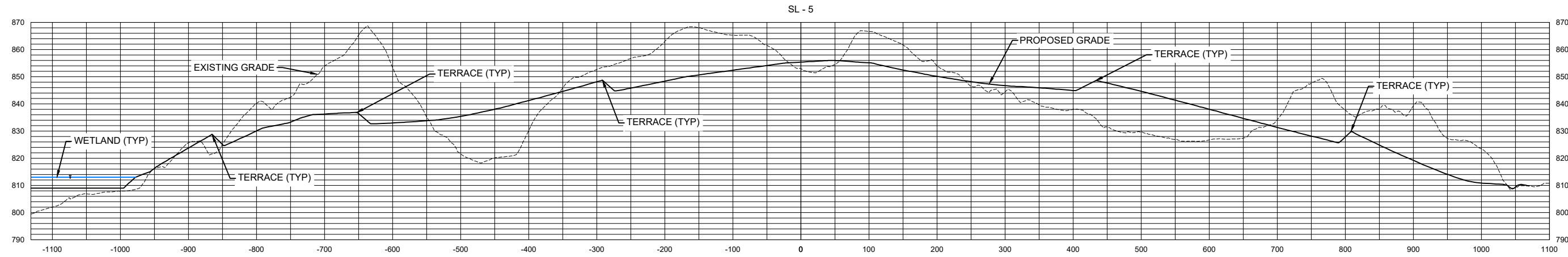
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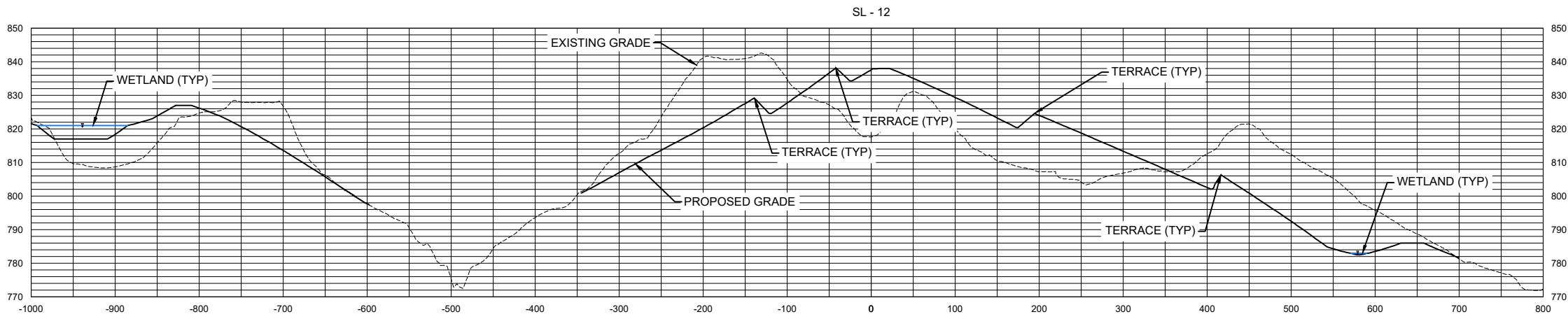
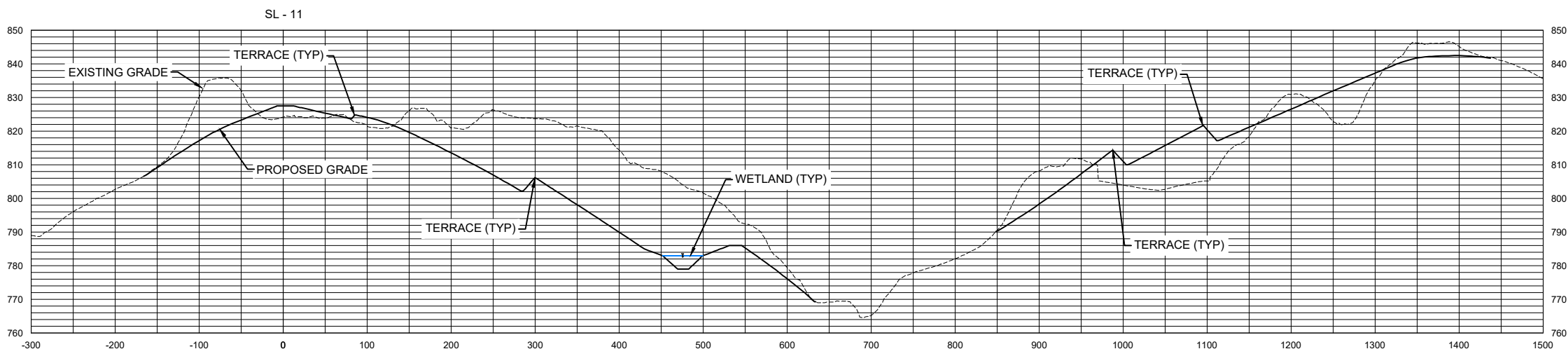
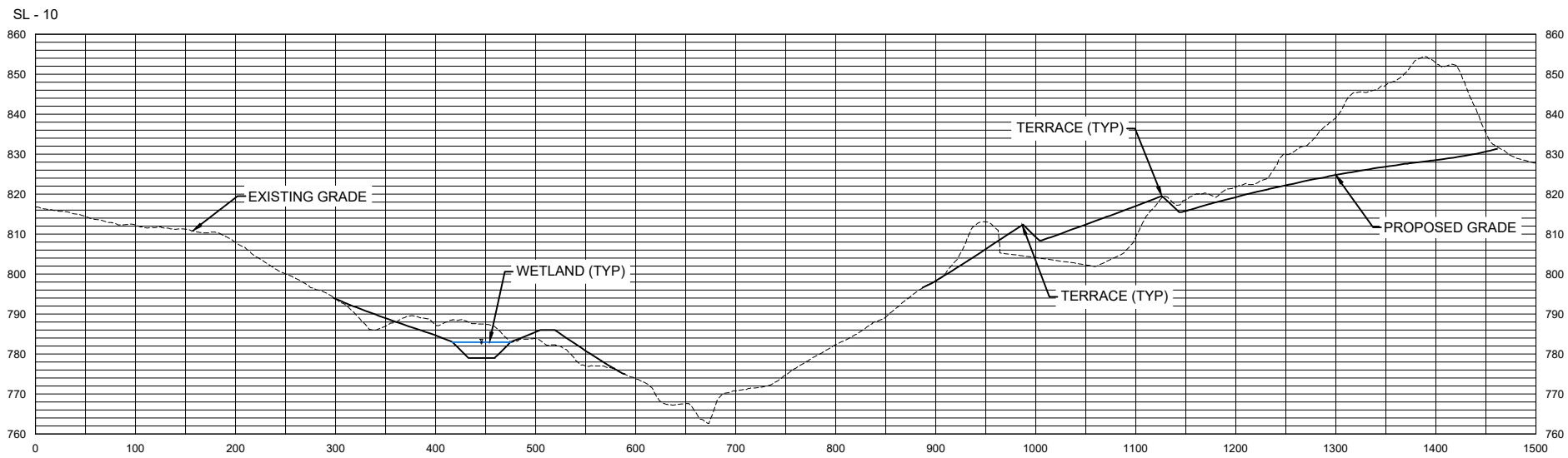
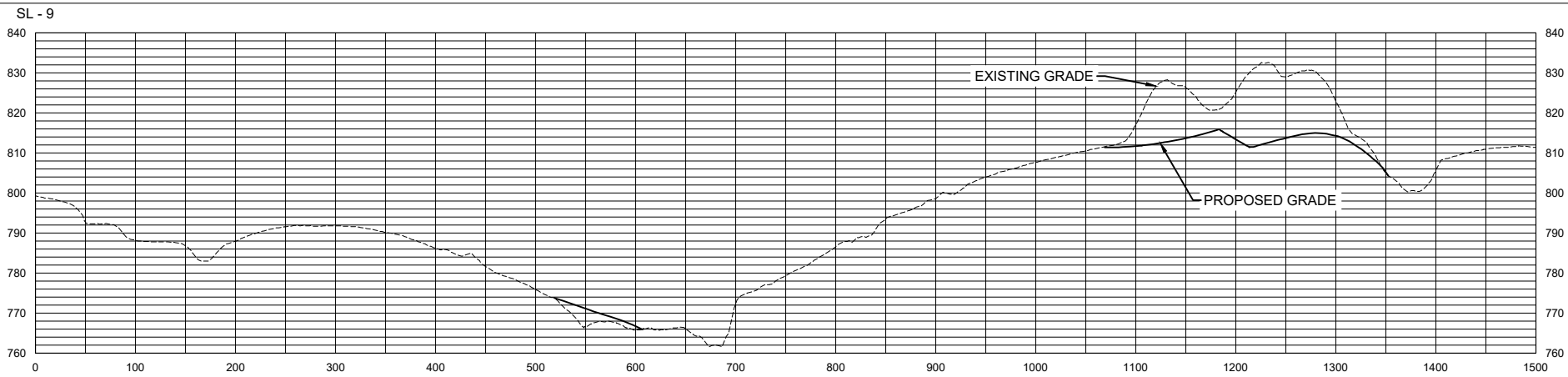
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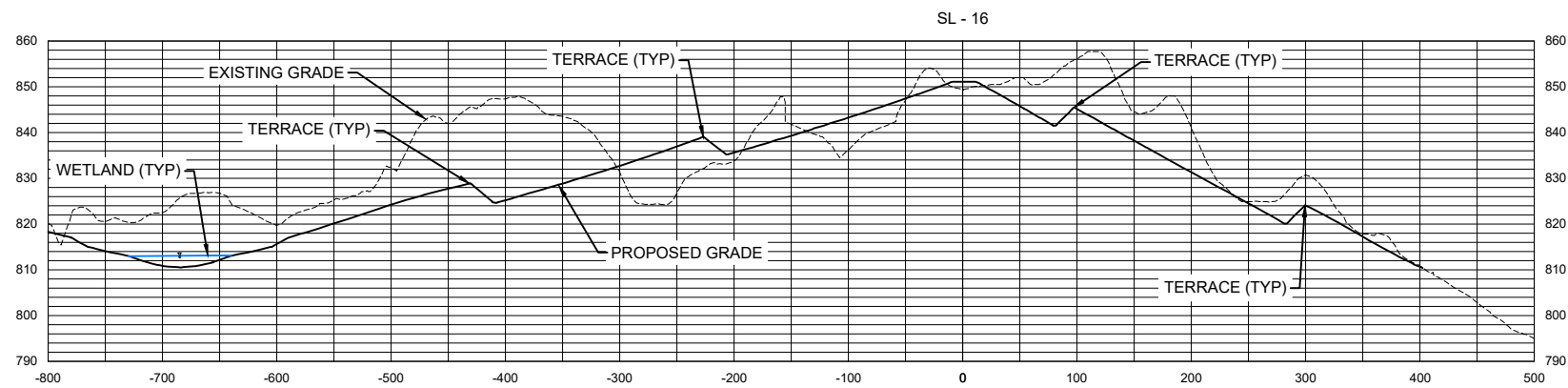
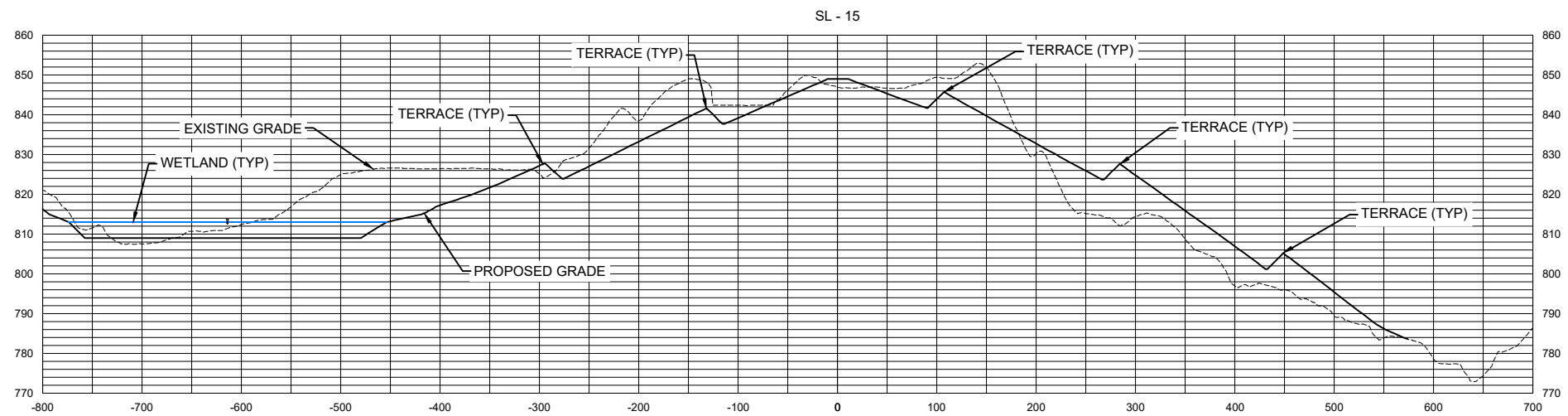
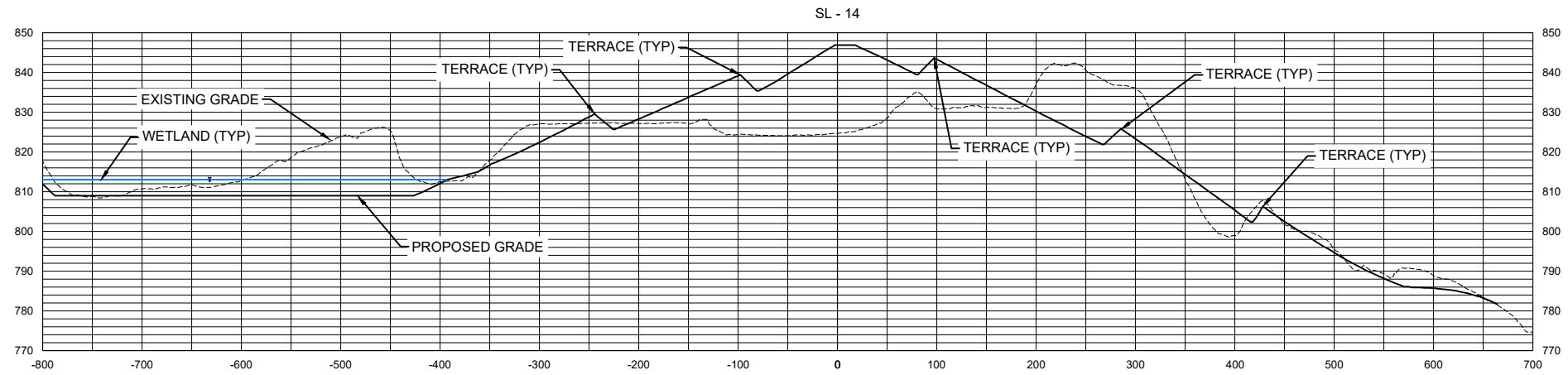
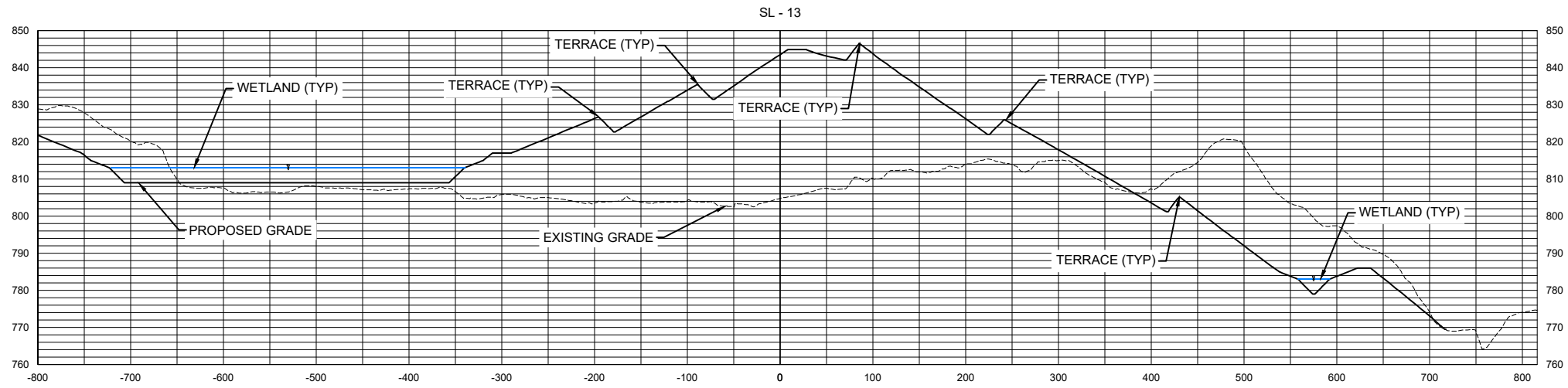
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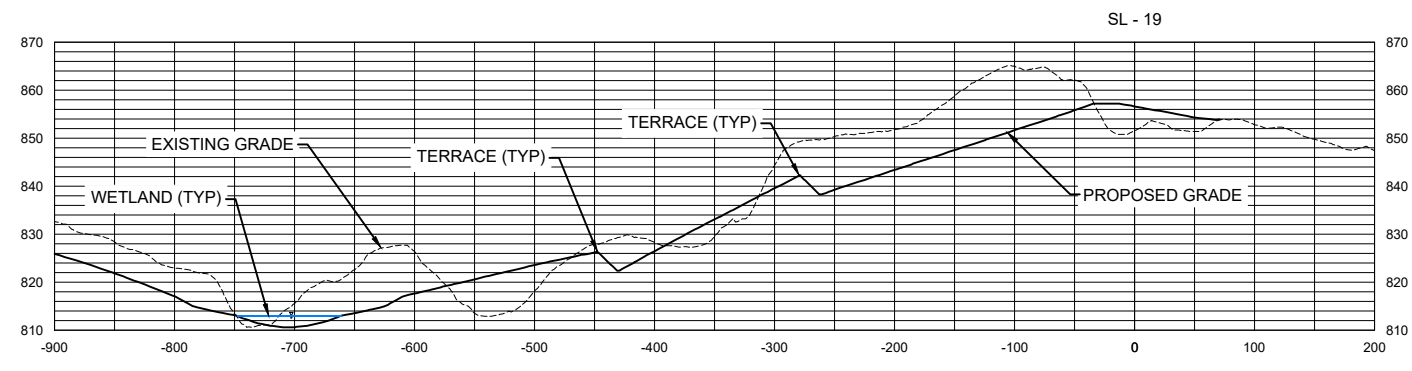
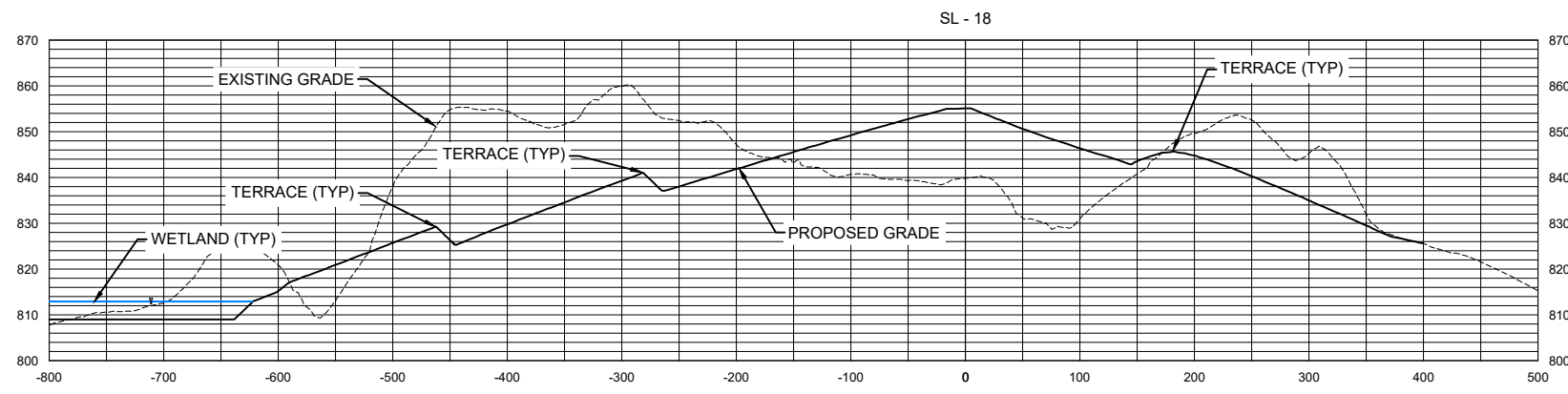
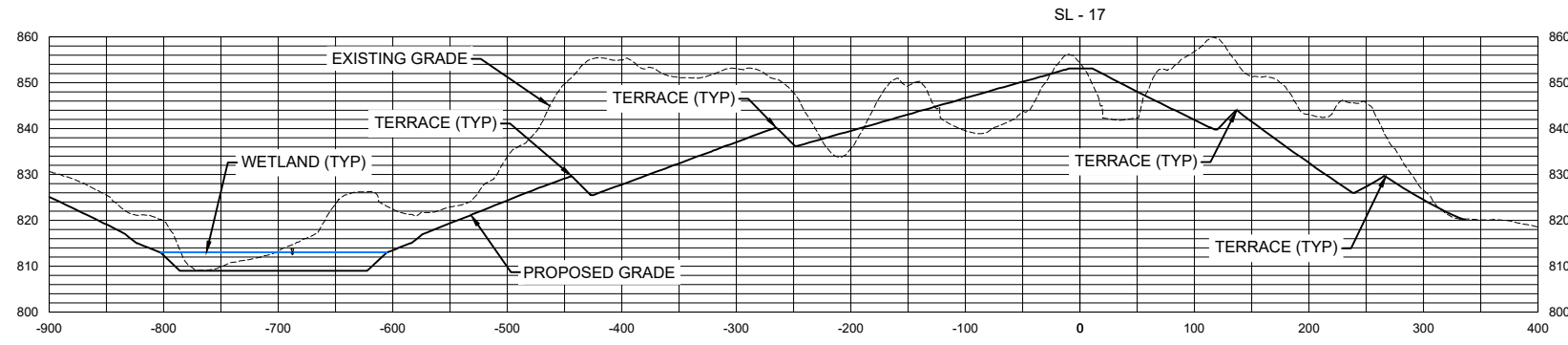
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DRAWN BY: ANI

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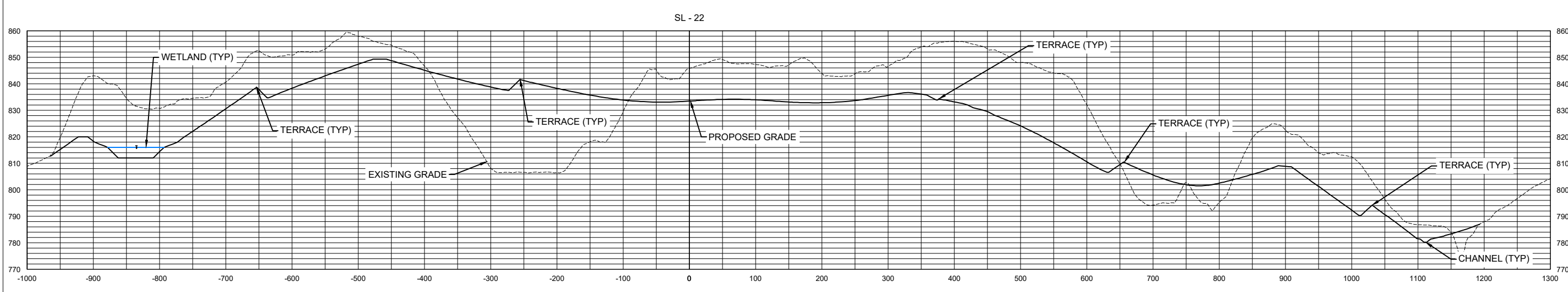
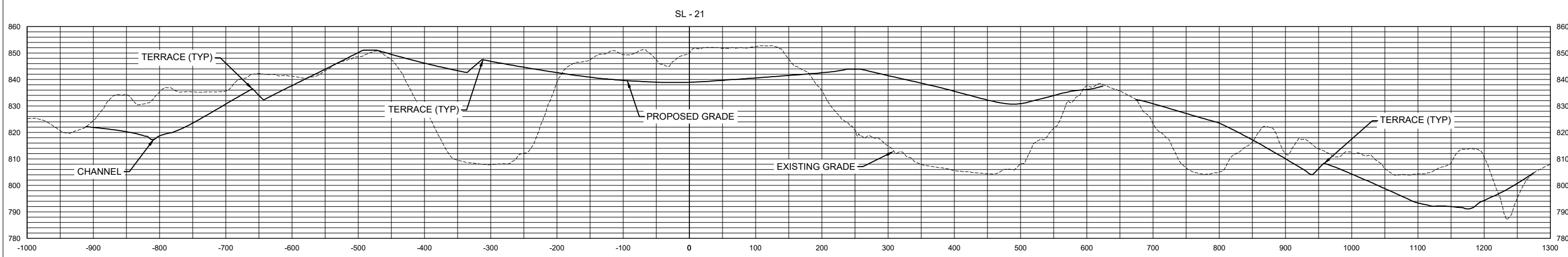
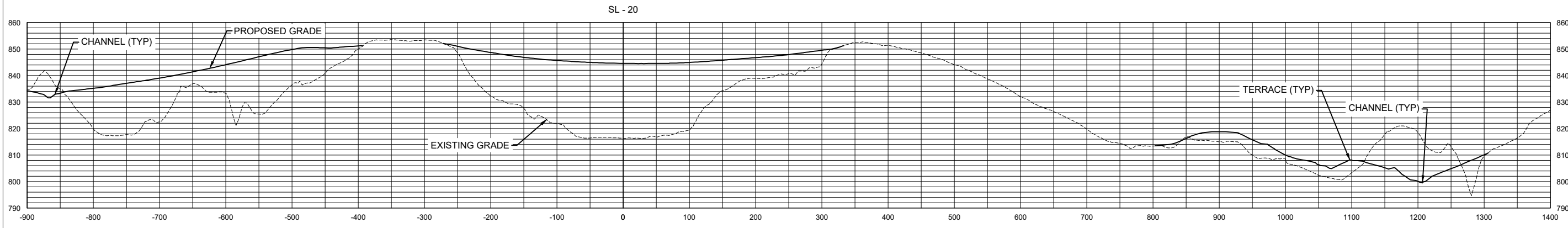
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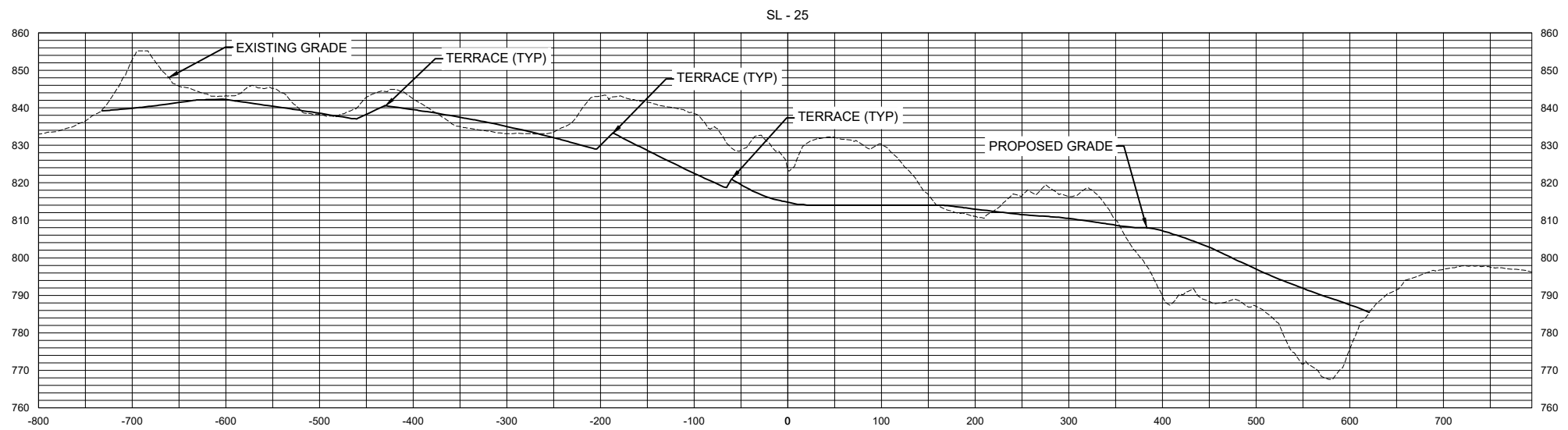
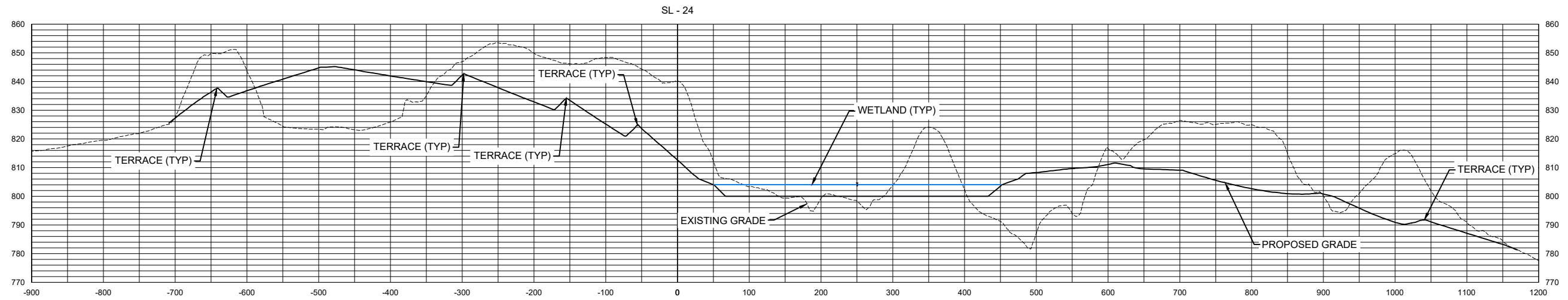
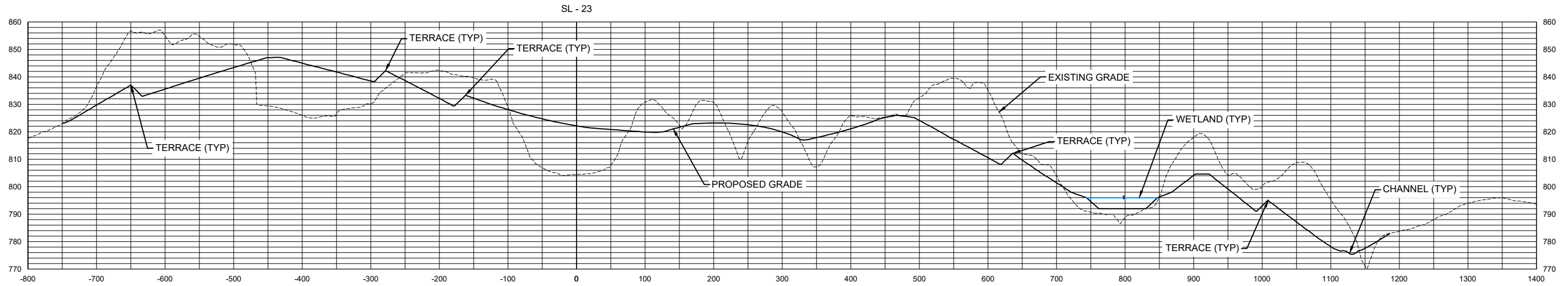
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PELLA NORTH AND SOUTH
 AML RECLAMATION PROJECT
 CROSS SECTIONS

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S-H PROJECT NUMBER: 2142203050

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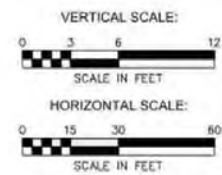
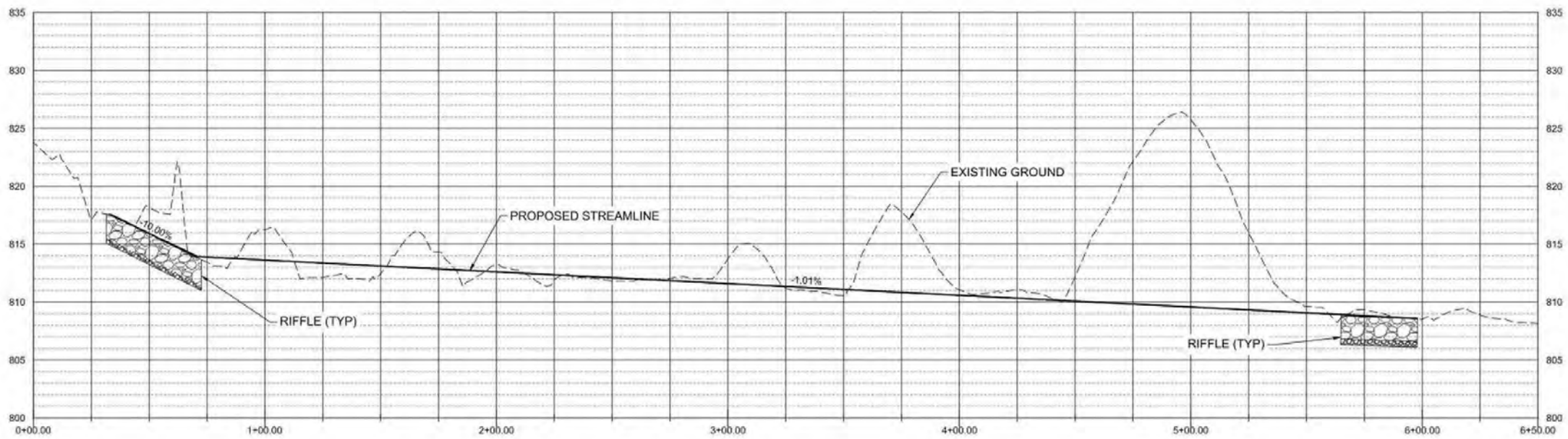
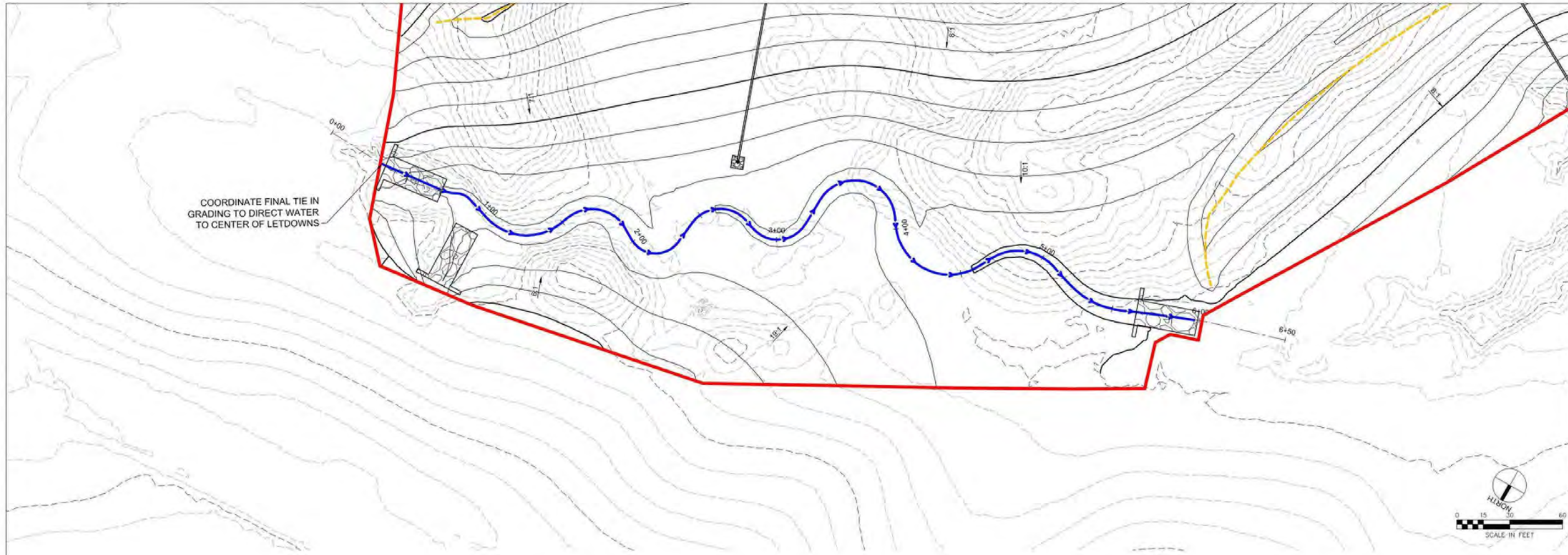
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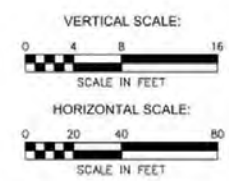
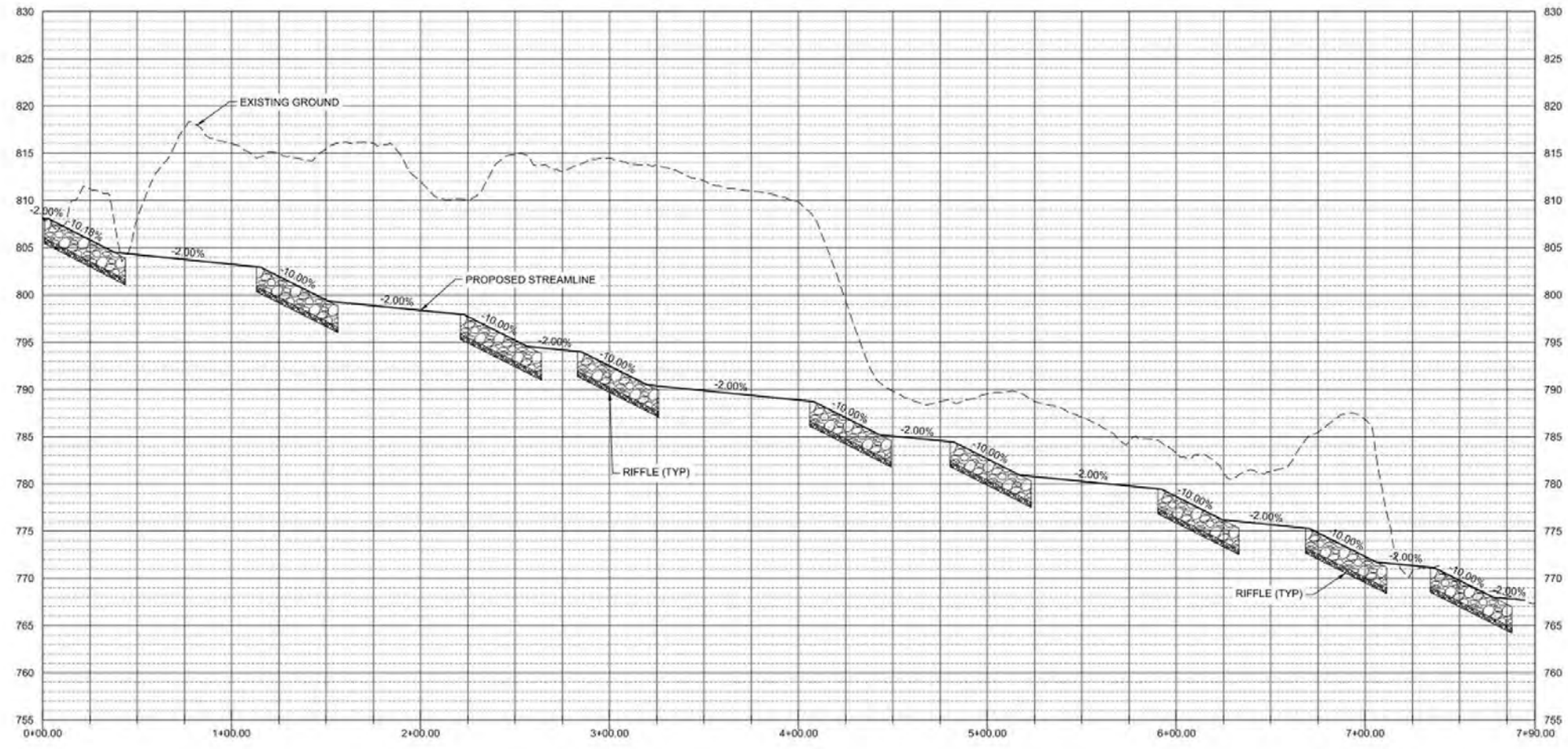
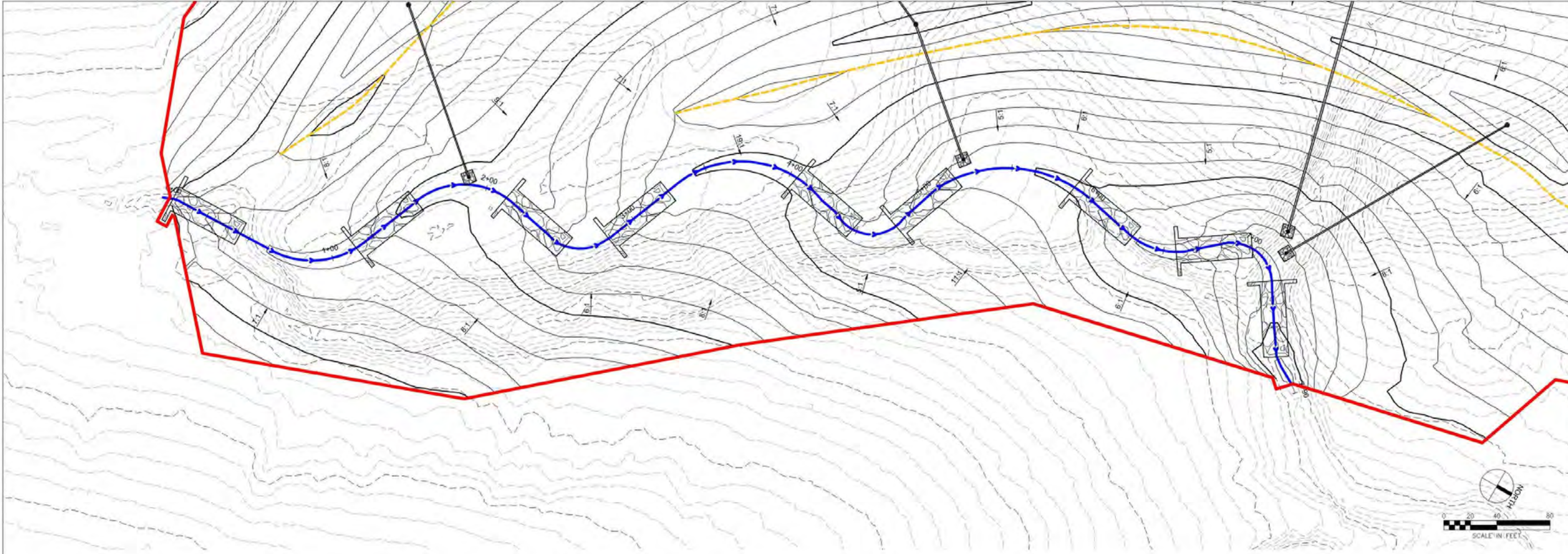
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PELLA NORTH AND SOUTH
 AML RECLAMATION PROJECT
 NORTH STREAM CHANNEL PROFILE

SHEET
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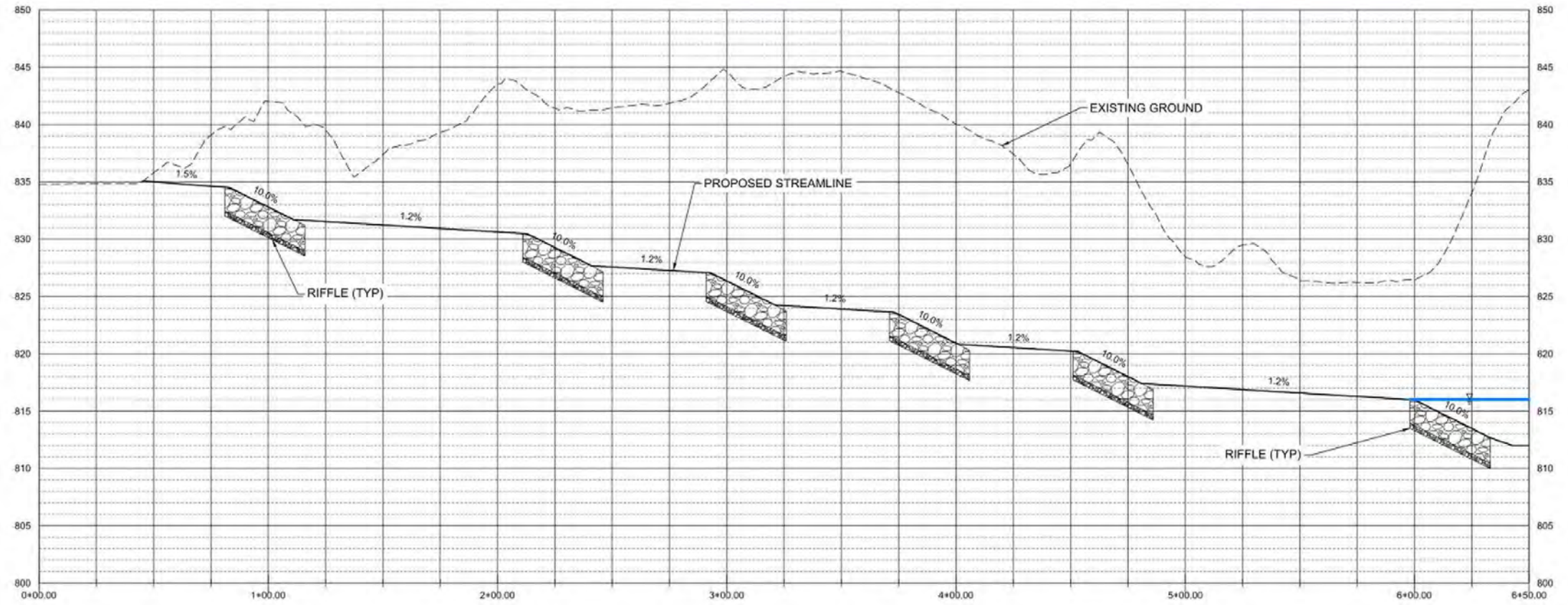
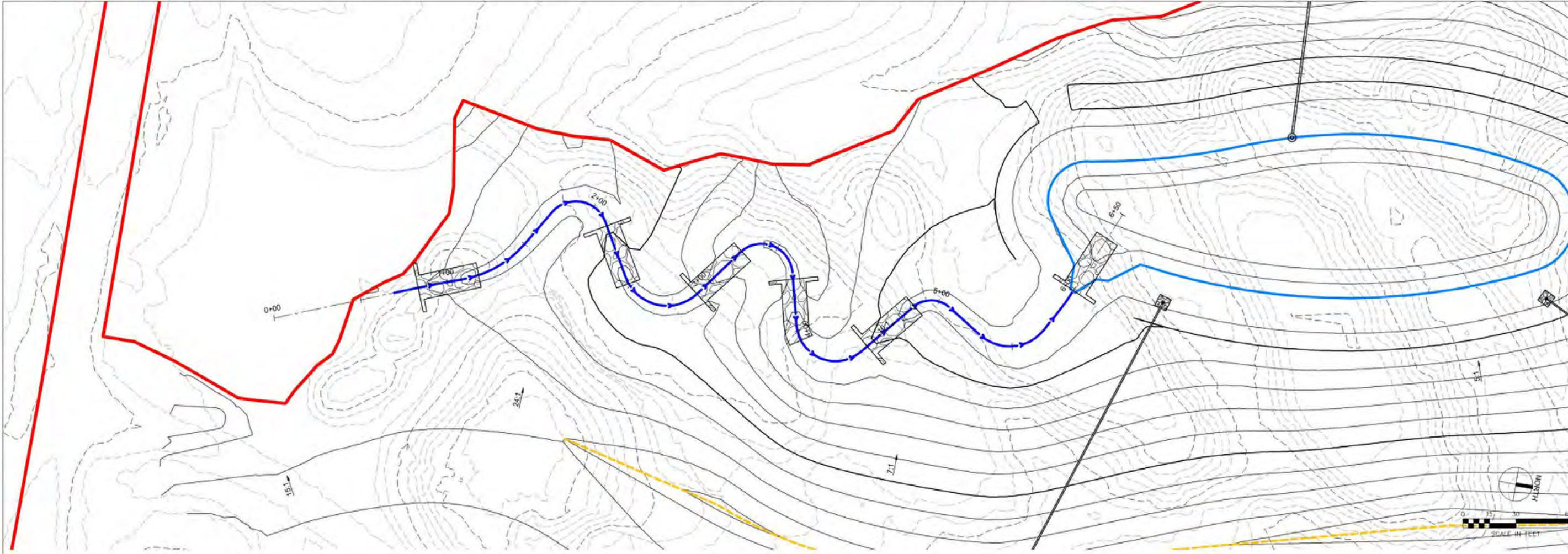
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PELLA NORTH AND SOUTH
AML RECLAMATION PROJECT
SOUTHEAST STREAM CHANNEL PROFILE



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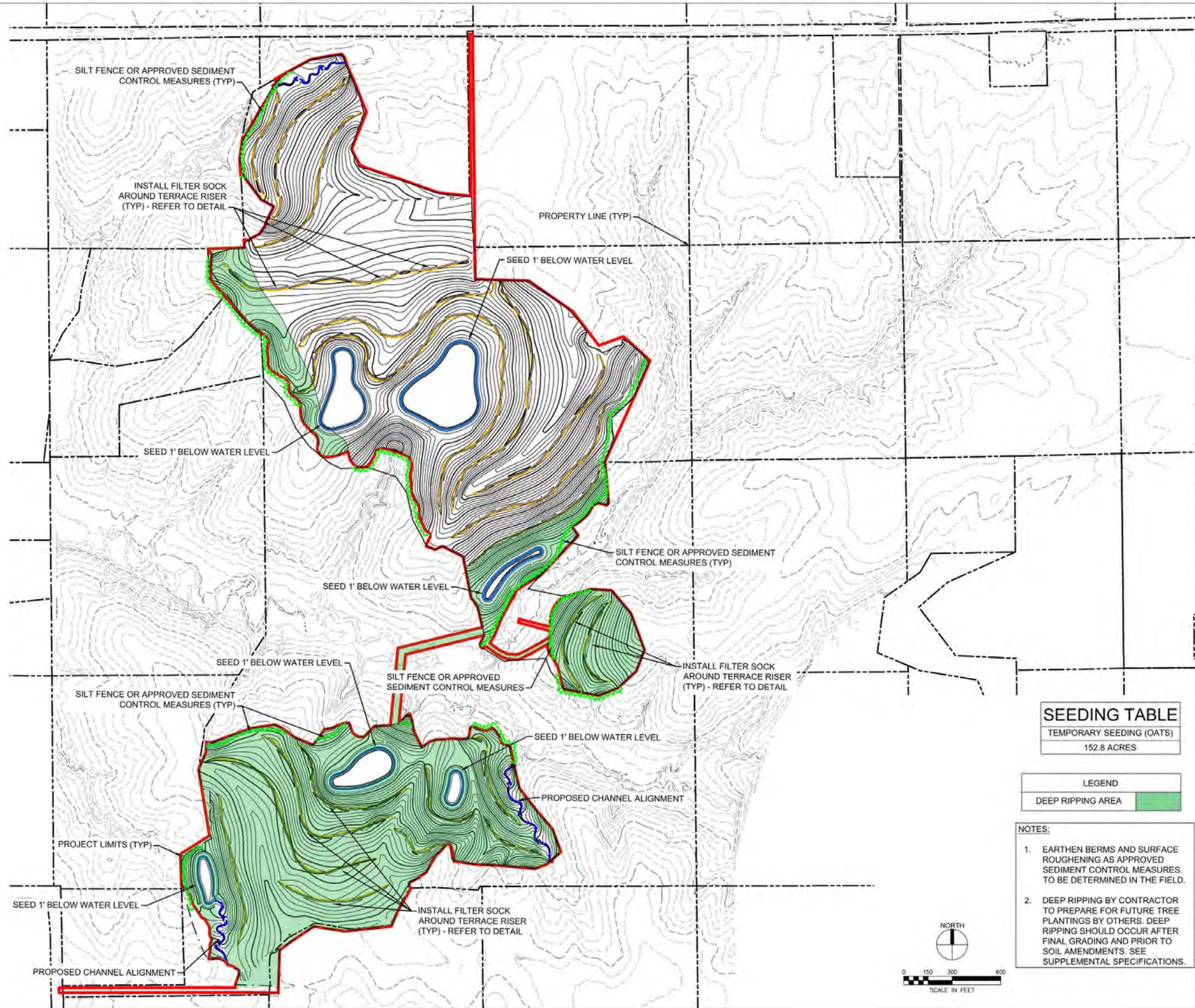
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PELLA NORTH AND SOUTH
AML RECLAMATION PROJECT
SOUTHWEST CHANNEL PROFILE



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SEEDING TABLE

TEMPORARY SEEDING (OATS)
152.8 ACRES

LEGEND

DEEP RIPPING AREA	
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- NOTES:**
1. EARTHEN BERMS AND SURFACE ROUGHENING AS APPROVED SEDIMENT CONTROL MEASURES. TO BE DETERMINED IN THE FIELD.
 2. DEEP RIPPING BY CONTRACTOR TO PREPARE FOR FUTURE TREE PLANTINGS BY OTHERS. DEEP RIPPING SHOULD OCCUR AFTER FINAL GRADING AND PRIOR TO SOIL AMENDMENTS. SEE SUPPLEMENTAL SPECIFICATIONS.

DESIGN BY: MMO DRAWN BY: MMO CHKD. BY: LTM ISSUED: 6/27/2024 REVISED: --- S-H PROJECT NUMBER: 2142203050		PELLA NORTH AND SOUTH AML RECLAMATION PROJECT SWPPP & SEEDING PLAN	SHEET 42 OF 43
DIVISION OF SOIL CONSERVATION AND WATER QUALITY IOWA DEPARTMENT OF AGRICULTURE AND LAND STEWARDSHIP HENRY A. WALLACE BUILDING 502 E. 9th STREET, DES MOINES, IOWA 50319 (515) 281-4246		SHIVEHATTERY ARCHITECTURE+ENGINEERING <small>4425 Webster Parkway, Suite 100 West Des Moines, Iowa 50266 515.225.6104 fax 515.225.0022 shivehattery.com Iowa Illinois Missouri Florida Firm Number: 184-000214</small>	

STORM WATER POLLUTION PREVENTION PLAN (SWPPP) SUMMARY

SITE INFORMATION:

1. SITE IS LOCATED IN SECTIONS 23 & 26, TOWNSHIP 76 NORTH, RANGE 18 WEST, MARION COUNTY, IOWA.
2. THIS SWPPP COVERS THE RECLAMATION OF APPROXIMATELY (162.0) ACRES OF STRIP MINED LAND.
3. THE PREDOMINATE SOIL TYPES ARE: MINE SPOIL (5025)
4. RUNOFF FROM THE CONSTRUCTION AREA WILL FLOW INTO AN UNNAMED TRIBUTARY TO THE DES MOINES RIVER.
5. THE AVERAGE NRCS RUNOFF CURVE NUMBER FOR THIS LAND AFTER PERMANENT VEGETATION IS ESTABLISHED IS ESTIMATED TO BE 84, BASED ON GRASSLAND WITH 50%-75% COVER. SOILS ON THIS SITE ARE SHOWN IN THE NRCS SOIL SURVEY AS BEING IN THE "D" HYDROLOGIC SOIL GROUP.

GENERAL:

1. THIS PROJECT WILL BE COVERED BY NPDES GENERAL PERMIT NO. 2 WHICH REGULATES STORMWATER DISCHARGE ASSOCIATED WITH INDUSTRIAL ACTIVITY FOR CONSTRUCTION ACTIVITIES.
2. THIS SHEET IS INCLUDED IN THE PLANS TO SUMMARIZE THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP). PARTICULAR INFORMATION CAN BE FOUND IN THE SWPPP DOCUMENTATION, WHICH SHALL INCLUDE:
 - A) THE SWPPP NARRATIVE DEVELOPED BY THE ENGINEER EXPLAINING HOW GENERAL PERMIT No. 2 REQUIREMENTS WILL BE MET
 - B) A COPY OF THE PERMIT AUTHORIZATION
 - C) CONTRACTOR AND SUB-CONTRACTOR CERTIFICATION STATEMENTS
 - D) ANTICIPATED SEQUENCE OF CONSTRUCTION EVENTS
 - E) DRAWINGS SHOWING LOCATIONS OF EROSION AND SEDIMENT CONTROL PRACTICES
 - F) COMPLETED INSPECTION REPORTS
 - G) MODIFICATIONS AND REPAIR DOCUMENTATION
3. THE SWPPP DOCUMENTATION SHALL BE KEPT AND MAINTAINED BY THE DIVISION IN AN ELECTRONIC FORM ACCESSIBLE TO DIVISION PERSONNEL, ENGINEER, AND CONTRACTOR AT ALL TIMES. THE ELECTRONIC SWPPP DOCUMENTATION MUST BE MADE AVAILABLE WITHIN THREE (3) HOURS OF A REQUEST FROM REGULATORY PERSONNEL.
4. THE PRIME CONTRACTOR AND ALL ITS SUBCONTRACTORS SHALL CONDUCT THEIR OPERATIONS IN A MANNER WHICH MINIMIZES EROSION AND PREVENTS SEDIMENTS FROM LEAVING THE CONSTRUCTION SITE. THE PRIME CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION AND COMPLIANCE OF THE SWPPP FOR THE ENTIRE CONTRACT. THIS RESPONSIBILITY SHALL BE FURTHER SHARED WITH ALL OF ITS SUB-CONTRACTORS.
5. THE WORK SHALL BE DONE IN ACCORDANCE WITH THE SWPPP, THE CONTRACT DRAWINGS, AND SECTION 02120 OF THE PROJECT SPECIFICATIONS. IN THE EVENT OF CONFLICT BETWEEN THESE REQUIREMENTS AND WATER POLLUTION CONTROL LAWS, RULES OR REGULATIONS OF OTHER FEDERAL, STATE OR LOCAL AGENCIES, THE MORE RESTRICTIVE LAWS, RULES OR REGULATIONS SHALL APPLY.
6. CONTRACTOR SHALL FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR THE INSTALLATION OF ALL BMPs IDENTIFIED IN THE SWPPP.

RECORD OF CHANGES:

- | | |
|----------------|--------------|
| 1. DATE: _____ | DESCRIPTION: |
| 2. DATE: _____ | DESCRIPTION: |
| 3. DATE: _____ | DESCRIPTION: |

EROSION AND SEDIMENT CONTROLS (GENERAL):

1. GRANULAR SURFACING SHALL BE INSTALLED AND MAINTAINED AT THE ENTRANCE INTO THE SITE AND ANY IDENTIFIED PARKING AREAS TO CONTROL MUD FROM BEING TRACKED FROM THE SITE. TRACKING OF SEDIMENTS OFF-SITE WILL BE REDUCED BY AVOIDING VEHICLE TRAFFIC ACROSS WET SURFACE SOILS. IF GRANULAR SURFACING AT THE SITE ENTRANCE DOES NOT EFFECTIVELY PREVENT TRACKING OF MUD FROM THE SITE, THEN VEHICLE TIRES SHALL BE MANUALLY CLEANED TO THE EXTENT PRACTICABLE. CONTRACTOR SHALL REMOVE TRACKED MUD AND SOIL FROM ADJOINING ROADWAYS.
2. WATER SHALL BE APPLIED TO HAUL ROADS AND OTHER DISTURBED EARTHEN SURFACES AS NECESSARY TO CONTROL DUST THROUGHOUT THE CONTRACT PERIOD.
3. WATER PUMPED DURING CONSTRUCTION OPERATIONS SHALL BE HANDLED IN A PROPER MANNER. EROSION AND SCOUR SHALL BE PREVENTED AT POINTS WHERE THE PUMP(S) DISCHARGE. LEVEL SPREADERS, RIP-RAP, AND/OR OTHER ENERGY ABSORBING DEVICES OR APPROPRIATE BMPs SHALL BE USED.
4. EXISTING VEGETATION IN AREAS NOT NEEDED FOR CONSTRUCTION SHALL BE PRESERVED.
5. WHERE INDICATED ON DRAWINGS, SEDIMENT CONTROL PRACTICES SHALL BE INSTALLED AT OR ALONG THE PERIMETER OF THE CONSTRUCTION AREA PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITY.
6. RISERS, INLETS, INTAKES, AND OTHER SUCH WATER-CONVEYING STRUCTURES SHALL BE PROTECTED WITH FILTER SOCK AT THE TIME OF THEIR INITIAL INSTALLATION.
7. IN AREAS WHERE THE PRESENCE OF FILTER SOCK OR STRAW WATTLE WILL INTERFERE WITH CONSTRUCTION ACTIVITIES, DIVERSION DITCHES AND TEMPORARY SEDIMENT TRAPS SHALL BE UTILIZED UNTIL THE SILT FENCE OR OTHER PRACTICES CAN BE INSTALLED.
8. LOCATIONS AND QUANTITIES OF BMPs SHOWN ON THE DRAWINGS ARE APPROXIMATE. ACTUAL LOCATIONS OR QUANTITIES ARE TO BE DETERMINED IN THE FIELD WITH THE APPROVAL OF THE DIVISION OR THE PROJECT ENGINEER.
9. AS THE WORK PROGRESSES, ADDITIONAL EROSION CONTROL MEASURES DEEMED NECESSARY, AS DETERMINED BY THE DIVISION OR ENGINEER AFTER INVESTIGATION, SHALL BE FURNISHED, INSTALLED AND MAINTAINED BY THE CONTRACTOR.
10. IF CONSTRUCTION ACTIVITY IS NOT PLANNED TO OCCUR IN A DISTURBED AREA FOR AT LEAST FOURTEEN (14) DAYS, THE AREA SHALL BE STABILIZED AS SOON AS PRACTICABLE AND WITHIN FOURTEEN (14) DAYS FOLLOWING THE LAST DISTURBANCE (UNLESS THE GROUND IS FROZEN OR SNOW COVERED) BY SURFACE ROUGHENING, TEMPORARY SEEDING, OR OTHER APPROVED METHOD.
11. EROSION CONTROL MEASURES BY THE CONTRACTOR SHALL CONTINUE UNTIL VEGETATIVE GROUND COVER IS ESTABLISHED AND ACCEPTED BY THE DIVISION.
12. ALL AREAS DISTURBED BEYOND CONSTRUCTION LIMITS SHOWN ON THIS PLAN MUST BE SEEDED AND STABILIZED. THE SEED MIXTURE USED SHOULD INCLUDE SPECIES SIMILAR TO AND COMPATIBLE WITH THE SURROUNDING VEGETATION.
13. BMP'S SHALL BE INSTALLED PRIOR TO ANY TREE GRUBBING ACTIVITIES.

OTHER POLLUTION CONTROLS:

1. THE CONTRACTOR SHALL MAINTAIN THE CONSTRUCTION SITE FREE OF ALL WASTES INCLUDING LITTER, USED PARTS, USED OIL AND CONTAINERS, TIRES, AND ANY OTHER WASTES GENERATED BY CONSTRUCTION ACTIVITIES. SANITARY WASTE GENERATED ON SITE SHALL BE TREATED AND DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REQUIREMENTS. CONTRACTOR DISPOSAL OF UNUSED CONSTRUCTION MATERIALS AND WASTES SHALL ALSO COMPLY WITH FEDERAL, STATE, AND LOCAL REGULATIONS.
2. CONCRETE WASHOUT RESIDUE SHOULD BE CONTAINED AND HAULED OFF SITE ONCE IT HARDENS. AREAS WHERE CONCRETE WASHOUT OCCURS SHALL BE FILLED AND STABILIZED.

TOPSOIL PRESERVATION:

THE SITE IS AN ABANDONED COAL MINE RECLAMATION PROJECT; NO TOPSOIL EXISTS PRIOR TO RECLAMATION-RELATED CONSTRUCTION ACTIVITIES. THEREFORE, THE TOPSOIL PRESERVATION REQUIREMENT WILL NOT BE MET. THE SITE CONSISTS OF MINE SPOIL MATERIAL CLASSIFIED AS MINE PITS AND DUMPS - SOIL TYPE 502 ON USDA SOIL SURVEY MAPS. AFTER FINAL GRADE IS ACHIEVED, AGRICULTURAL LIME WILL BE APPLIED AT A RATE TO BE DETERMINED BY SOIL TESTS. THE AGRICULTURAL LIME, ALONG WITH 5 TONS OF MULCH WILL BE INCORPORATED INTO THE UPPER ONE (1) FOOT OF THE MINE SPOIL TO PRODUCE A GROWING MEDIUM AS OUTLINED IN PROJECT SPECIFICATION 02400. AFTER A PERIOD OF TIME TO ALLOW FOR NEUTRALIZATION AND MULCH DECOMPOSITION, THE SITE WILL BE PREPARED FOR SEEDING. AGRICULTURAL LIME, FERTILIZER, SEED AND CRIMPED MULCH WILL BE APPLIED AS OUTLINED IN PROJECT SPECIFICATION 02700.

INSPECTIONS:

1. SITE INSPECTION IS THE RESPONSIBILITY OF THE DIVISION WITH ASSISTANCE FROM CONTRACTOR WHEN REQUESTED; SITE INSPECTIONS SHALL BE PERFORMED BY QUALIFIED PERSONNEL. INSPECTIONS SHALL BE PERFORMED ONCE EVERY SEVEN (7) DAYS.
2. ALL INSTALLED BMPs SHALL BE INSPECTED FOR CONDITION AND EFFECTIVENESS.
3. SITE INSPECTION REPORTS SHALL BE PROPERLY SIGNED BY THE PERSON CONDUCTING THE INSPECTION. THE REPORT SHALL INCLUDE:
 - A) DATE, NAME AND TITLE/POSITION OF THE INSPECTOR;
 - B) WEATHER INFORMATION;
 - C) LOCATION OF SEDIMENT/POLLUTANT DISCHARGE(S);
 - D) BMPs THAT ARE NEEDED, REQUIRE MAINTENANCE, OR HAVE FAILED,
 - E) CORRECTIVE ACTIONS REQUIRED;
 - F) CHANGES/UPDATES TO THE SWPPP.
4. THE FINDINGS OF EACH INSPECTION SHALL BE RECORDED AND KEPT IN AN ELECTRONIC FORMAT WITH THE ELECTRONIC SWPPP.
5. IF INSPECTIONS FIND DEFICIENCIES, THE CONTRACTOR SHALL BEGIN CORRECTIVE ACTION ON ALL DEFICIENCIES AS SOON AS PRACTICABLE.
6. THE SWPPP MAY BE REVISED BASED ON FINDINGS OF THE INSPECTIONS. SUCH REVISIONS SHALL BE MADE WITHIN SEVEN (7) DAYS OF THE INSPECTION. THE CONTRACTOR SHALL IMPLEMENT ALL REVISIONS.
7. COPIES OF INSPECTION REPORTS WILL BE RETAINED WITH THE SWPPP FOR THREE (3) YEARS FROM THE DATE THE PERMIT COVERAGE TERMINATES.

MAINTENANCE:

1. THE CONTRACTOR SHALL MAINTAIN ALL EROSION AND SEDIMENT CONTROL PRACTICES IN PROPER WORKING ORDER FOR THE DURATION OF THE CONTRACT. IF A PRACTICE IS NO LONGER NEEDED AS DETERMINED BY THE DIVISION OR ENGINEER, IT SHALL BE REMOVED.
2. MAINTENANCE INCLUDES CLEANING, REPAIRING, OR REPLACING AS REQUIRED. IN GENERAL, MAINTENANCE SHALL BE PERFORMED PRIOR TO THE NEXT ANTICIPATED STORM EVENT.
3. REMOVE SEDIMENT FROM SEDIMENT TRAPS, DITCHES, AND SILT FENCES WHEN THEIR INSTALLED CAPACITY IS REDUCED BY FIFTY (50) PERCENT OR MORE.

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AML RECLAMATION PROJECT

SWPPP NOTES