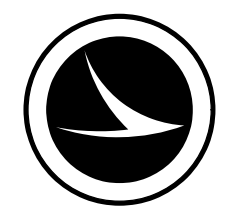


SHEET NUMBER								PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.	
P.3	P.4	P.11	P.12	P.19	P.20	P.26	P.27	01/NFP	EXT	TOTAL					
													ROADWAY		
		LS						LS	201	11001	LS		CLEARING AND GRUBBING, AS PER PLAN, AROUND CULVERTS (ATB-45-17.196)	P.11	
				LS				LS	201	11001	LS		CLEARING AND GRUBBING, AS PER PLAN, AROUND CULVERTS (ATB-193-11.140)	P.19	
						LS		LS	201	11001	LS		CLEARING AND GRUBBING, AS PER PLAN, AROUND CULVERTS (TRU-193-23.897)	P.26	
			2					2	202	20010	2	EACH	HEADWALL REMOVED (ATB- 45-17.196)		
					2			2	202	20010	2	EACH	HEADWALL REMOVED (ATB-193-11.140)		
							2	2	202	20010	2	EACH	HEADWALL REMOVED (TRU-193-23.897)		
		285		162				603	202	23000	603	SY	PAVEMENT REMOVED		
								12	202	35100	12	FT	PIPE REMOVED, 24" DIAMETER AND UNDER		
			152		43			235	202	35200	235	FT	PIPE REMOVED, OVER 24" DIAMETER		
		245		116				628	203	10000	628	CY	EXCAVATION		
								255	203	20000	255	CY	EMBANKMENT		
		215		16				728	204	10000	728	SY	SUBGRADE COMPACTION		
LS		310		252				LS	SPECIAL	69091000	LS		AS-BUILT CONSTRUCTION PLANS	P.3	
								LS	SPECIAL	69098400	LS		SURVEY CONTROL VERIFICATION (ATB-45-17.196)	P.11	
				LS				LS	SPECIAL	69098400	LS		SURVEY CONTROL VERIFICATION (ATB-193-11.140)	P.19	
							LS	LS	SPECIAL	69098400	LS		SURVEY CONTROL VERIFICATION (TRU-193-23.897)	P.26	
													EROSION CONTROL		
			5					4	9	601	11000	9	SY	RIPRAP, TYPE D	
					14			14	601	11001	14	SY	RIPRAP, TYPE D, AS PER PLAN	P.19	
								59	59	601	32010	59	CY	ROCK CHANNEL PROTECTION, TYPE A WITH AGGREGATE FILTER	
			10		15			25	601	32110	25	CY	ROCK CHANNEL PROTECTION, TYPE B WITH AGGREGATE FILTER		
6								6	601	32200	6	CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER		
		92		42				193	659	00300	193	CY	TOPSOIL		
								1,741	659	10000	1,741	SY	SEEDING AND MULCHING		
		832		377				0.23	659	20000	0.23	TON	COMMERCIAL FERTILIZER		
		0.11		0.05				0.36	659	31000	0.36	ACRE	LIME		
		0.17		0.08				9	659	35000	9	MGAL	WATER		
		4		2				4,000	832	30000	4,000	EACH	EROSION CONTROL		
								132	132	836	10030	132	SY	SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE 3	
													DRAINAGE		
				LS				LS	503	11100	LS		COFFERDAMS AND EXCAVATION BRACING (ATB-193-11.140)		
			LS					LS	503	11100	LS		COFFERDAMS AND EXCAVATION BRACING (ATB-45-17.196)		
								LS	503	11100	LS		COFFERDAMS AND EXCAVATION BRACING (TRU-193-23.897)		
		1.8			31.2			31.4	64.4	602	20000	64.4	CY	CONCRETE MASONRY	
		84			44			85	193	605	31100	193	FT	AGGREGATE DRAINS	
60								60	611	00900	60	FT	6" CONDUIT, TYPE B		
60								60	611	01400	60	FT	6" CONDUIT, TYPE E		
60								60	611	01500	60	FT	6" CONDUIT, TYPE F		
								12	611	04600	12	FT	12" CONDUIT, TYPE C		
			143					143	611	19200	143	FT	42" CONDUIT, TYPE A, 706.02 OR 707.01/707.02 (0.064 ALUMINIZED) OR 707.33		
					40			40	80	611	53200	80	FT	48" X 76" CONDUIT, TYPE A, 706.04	
													PAVEMENT		
			312		296			920	254	01000	920	SY	PAVEMENT PLANING, ASPHALT CONCRETE, (T=3")		
			58		28			109	301	56000	109	CY	ASPHALT CONCRETE BASE, PG64-22, (449)		
			52		42			122	304	20000	122	CY	AGGREGATE BASE, (T=6")		
			55		47			151	407	20000	151	GAL	NON-TRACKING TACK COAT		
			34		29			92	408	10001	92	GAL	PRIME COAT, AS PER PLAN, (@ 0.40 GAL/SY)	P.3	
								129	441	70000	129	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22, (T=3")		
			50		39			9	617	10101	9	CY	COMPACTED AGGREGATE, AS PER PLAN, (T=1")	P.3	
			3		3										
													TRAFFIC CONTROL		
			15		15			45	630	02100	45	FT	GROUND MOUNTED SUPPORT, NO. 2 POST		
			2		2			6	630	80100	6	SF	SIGN, FLAT SHEET, 730.20		
								2	630	84900	2	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL		
								2	630	86002	2	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL		
			0.07		0.04			0.17	642	00104	0.17	MILE	EDGE LINE, 6", TYPE 1		
			0.03		0.02			0.08	642	00300	0.08	MILE	CENTER LINE, TYPE 1		

GENERAL SUMMARY

DESIGN AGENCY



DESIGNER
NKF

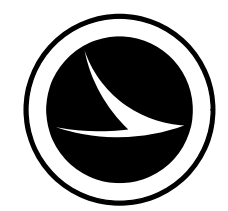
REVIEWER
MJP 3/27/25

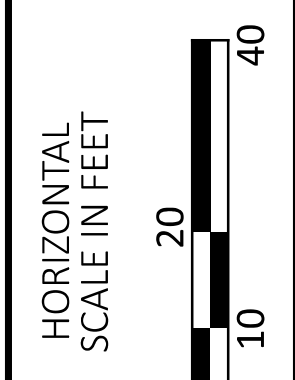
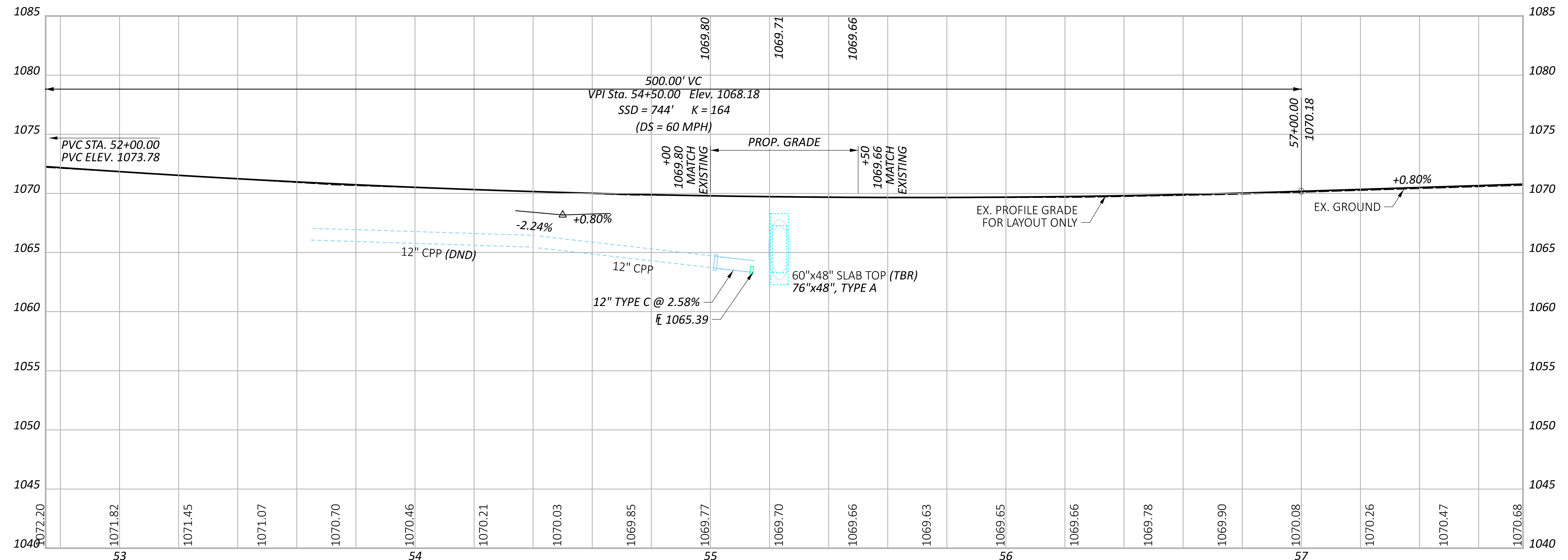
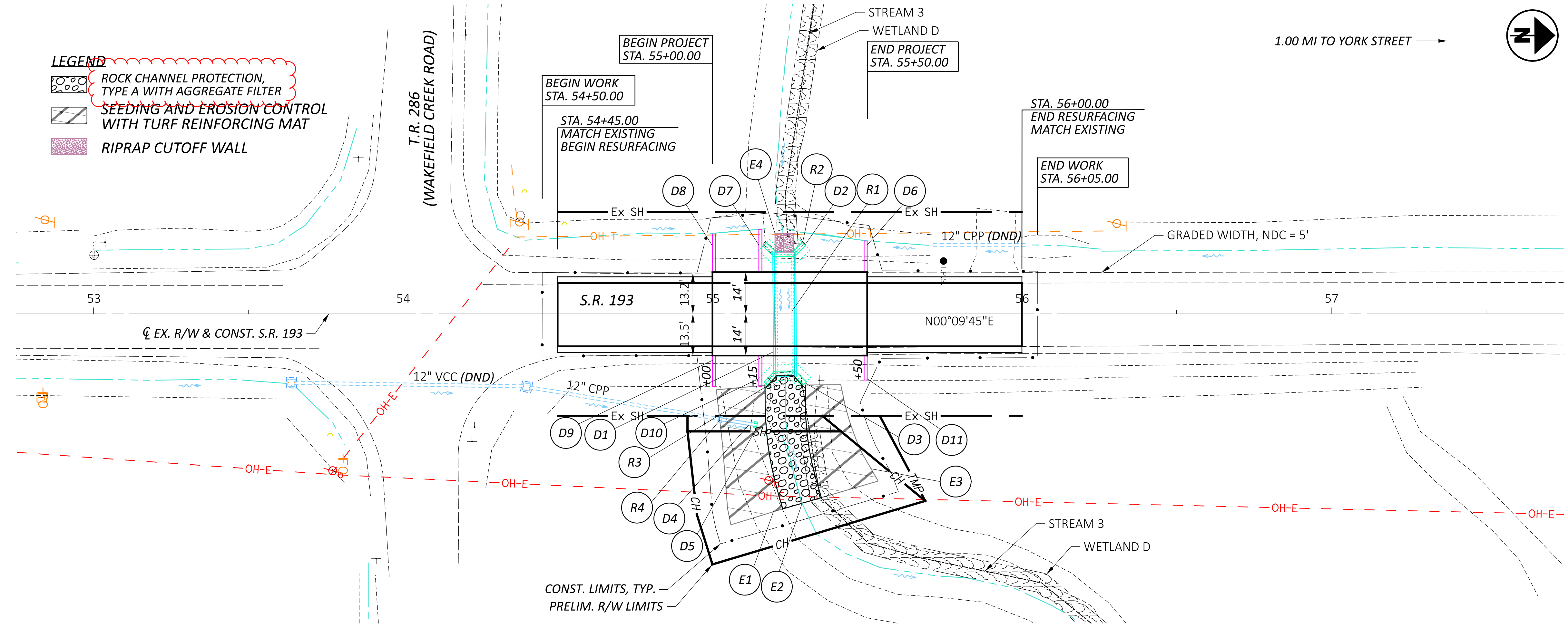
PROJECT ID
122339

SHEET TOTAL
P.9 34

REF NO.	SHEET NO.	STATION TO STATION				ITEM DESCRIPTION										
		FROM	TO	FROM	TO	202	202	202	503	601	602	611	611	605	836	601
						FT	EACH	FT	LS	SY	CY	FT	FT	FT	SY	CY
R1	P.28	55+23.21	LT	55+23.46	RT	40										
R2	P.28	55+23.21	LT	55+23.21	LT		1									
R3	P.28	55+23.46	RT	55+23.46	RT		1									
R4	P.28	55+02.20	RT	55+14.46	RT			12								
D1	P.28	55+23.21	LT	55+23.46	RT							40				
D2	P.28	55+23.21	LT	55+23.21	LT						15.6					
D3	P.28	55+23.46	RT	55+23.46	RT						15.6					
D4	P.28	55+02.20	RT	55+14.46	RT							12				
D5	P.28	55+14.46	RT	55+14.46	RT						0.2					
D6	P.28	55+00.00	LT	55+00.00	LT									10		
D7	P.28	55+15.00	LT	55+15.00	LT									14		
D8	P.28	55+50.00	LT	55+50.00	LT									13		
D9	P.28	55+00.00	RT	55+00.00	RT									10		
D10	P.28	55+15.00	RT	55+15.00	RT									10		
D11	P.28	55+50.00	RT	55+50.00	RT									8		
E1	P.28	55+07.00	LT	55+07.00	LT										73	
E2	P.28	55+23.46	RT	55+23.46	RT				LS							59
E3	P.28	55+42.00	LT	55+42.00	LT										59	
E4	P.28	55+23.21	LT	55+23.21	LT				LS	4						
TOTALS CARRIED TO GENERAL SUMMARY						40	2	12	LS	4	31.4	40	12	65	132	59

ROADWAY AND DRAINAGE SUBSUMMARY - TRU-193-23.897

DESIGN AGENCY

 DESIGNER
 NKF
 REVIEWER
 MJP 3/27/25
 PROJECT ID
 122339
 SHEET TOTAL
 P.27 34

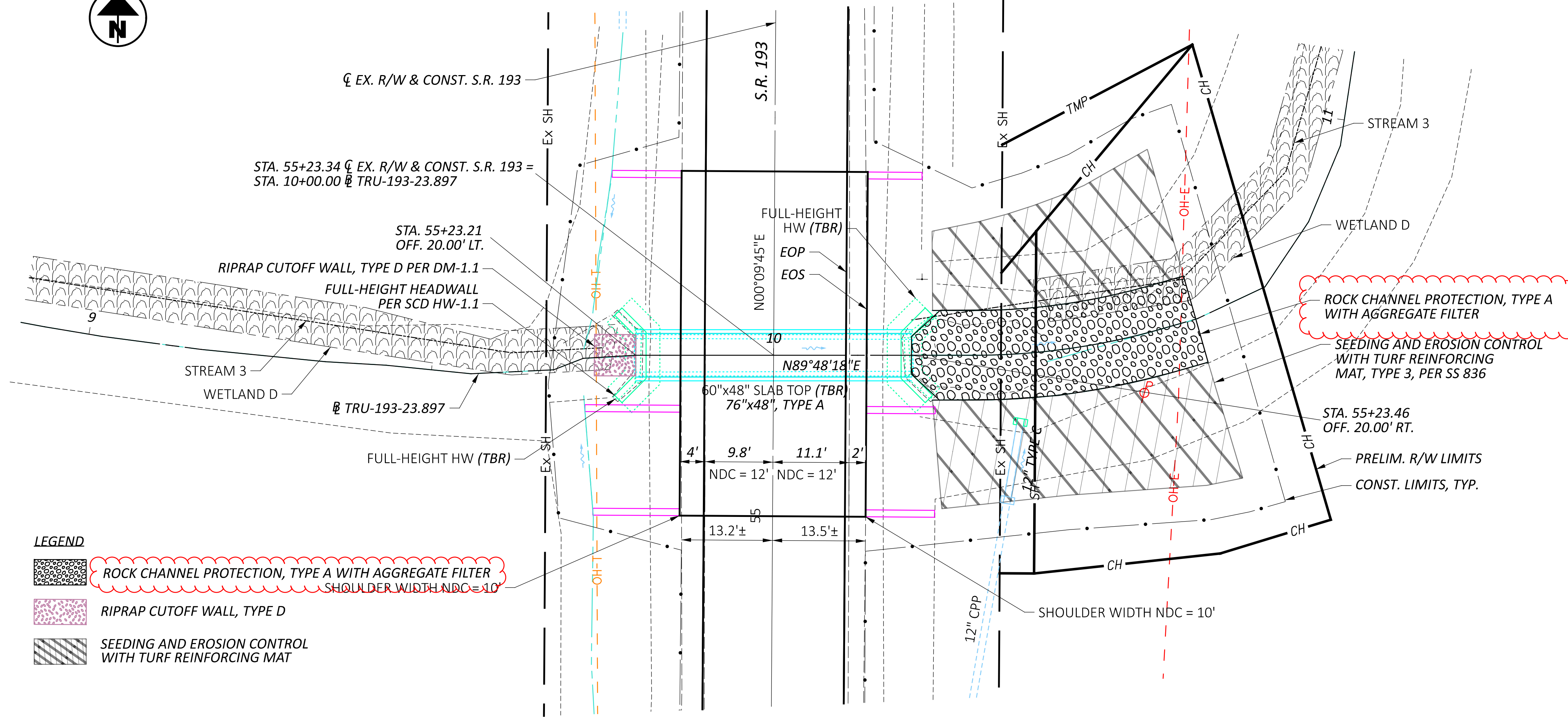


PLAN AND PROFILE
 TRU-193-23.897

DESIGN AGENCY	
DESIGNER	NKF
REVIEWER	MJP 3/27/25
PROJECT ID	122339
SHEET	TOTAL
P.28	34



FOR BENCHMARK INFORMATION, SEE SHEET P.26
 FOR ESTIMATED QUANTITIES, SEE SHEET P.27

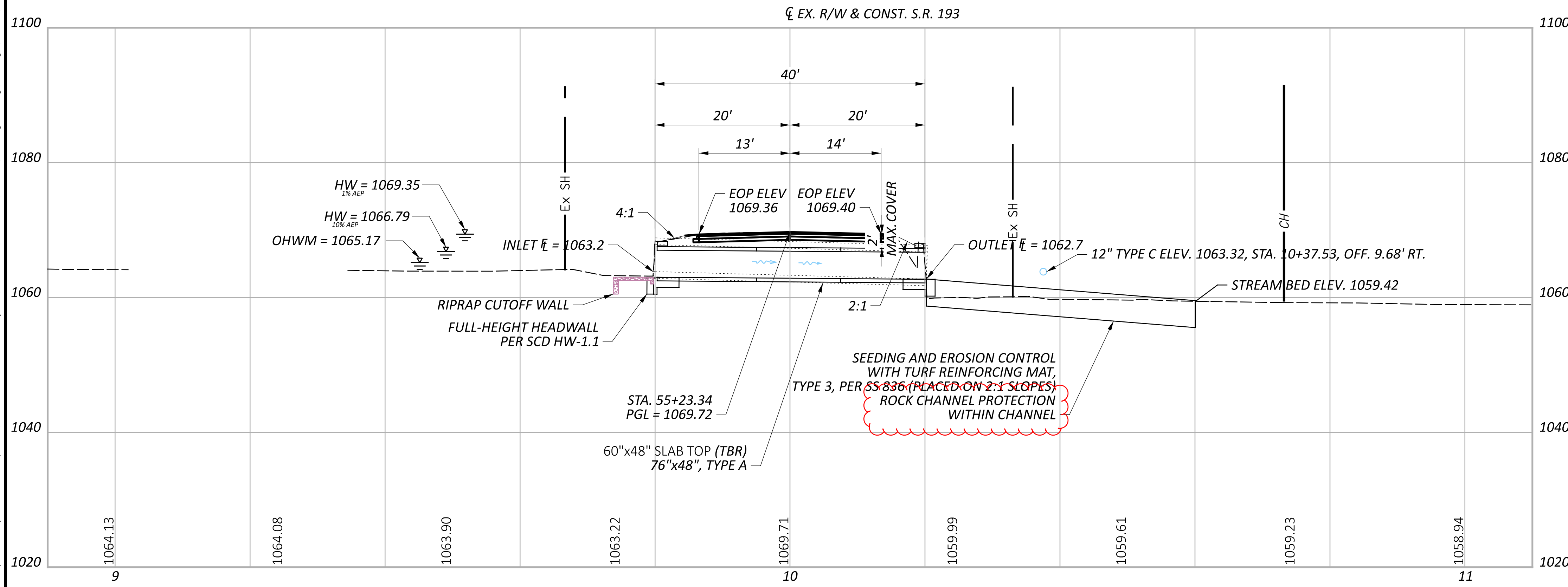


- LEGEND**
- ROCK CHANNEL PROTECTION, TYPE A WITH AGGREGATE FILTER
 - RIPRAP CUTOFF WALL, TYPE D
 - SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT

HYDRAULIC DATA		
DRAINAGE AREA =	154 ACRES	
Q (10%) =	110 CFS	V (10%) = 14.1 FT/S
Q (1%) =	216 CFS	V (1%) = 17.2 FT/S
ORDINARY HIGH WATER MARK:	1065.8 FT	HW (10%) = 1066.79 FT
DESIGN SERVICE LIFE:	75 YEARS	HW (1%) = 1069.35 FT
ABRASION LEVEL:	1	
pH:	8.2	

EXISTING CULVERT	
TYPE:	SLAB TOP
SIZE:	60"x48"
SKREW:	NONE
ALIGNMENT:	TANGENT
DATE BUILT:	UNKNOWN
CONDITION:	FAIR
CFN:	1800945

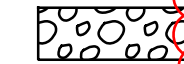
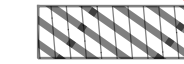
PROPOSED CULVERT	
TYPE:	76"x48" CONDUIT, TYPE A, 706.04
SKREW:	NONE
ALIGNMENT:	TANGENT
CFN:	1999395

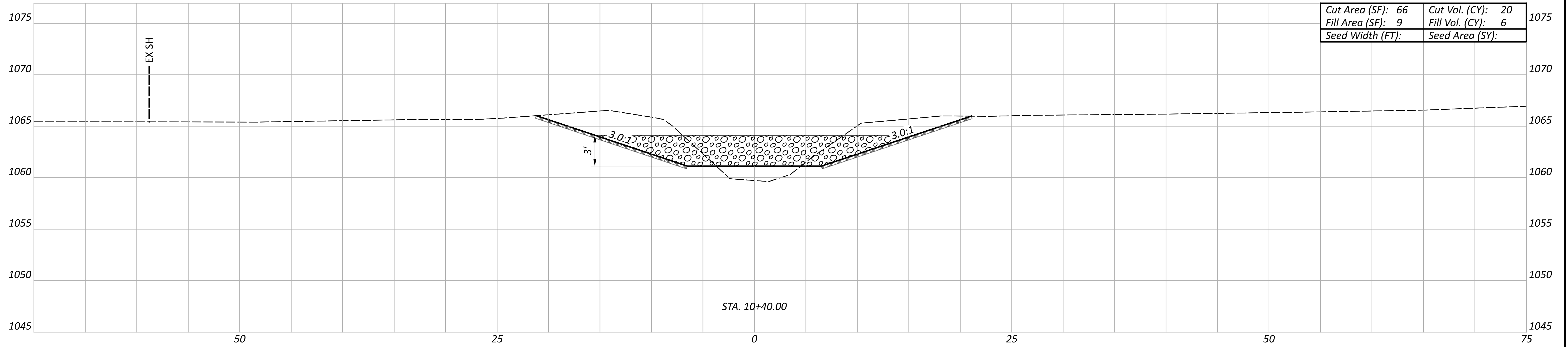


CULVERT DETAIL
 TRU-193-23.897

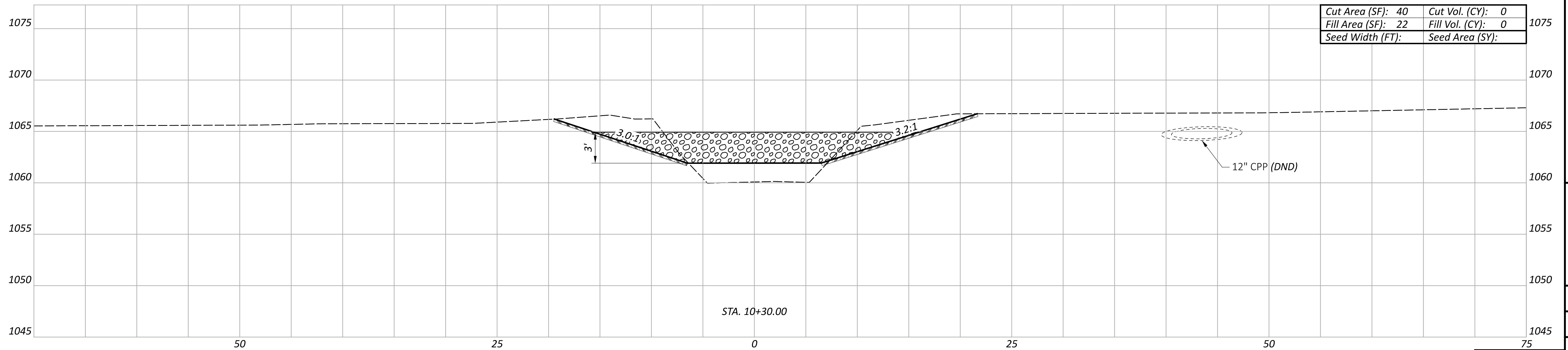
DESIGN AGENCY	
DESIGNER	NKF
REVIEWER	MJP 3/27/25
PROJECT ID	122339
SUBSET	TOTAL
1	1
SHEET	TOTAL
P.32	34

LEGEND

-  ROCK CHANNEL PROTECTION, TYPE A WITH AGGREGATE FILTER
-  SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT



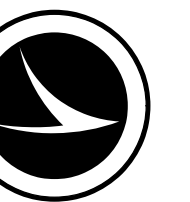
Cut Area (SF): 66	Cut Vol. (CY): 20
Fill Area (SF): 9	Fill Vol. (CY): 6
Seed Width (FT):	Seed Area (SY):



Cut Area (SF): 40	Cut Vol. (CY): 0
Fill Area (SF): 22	Fill Vol. (CY): 0
Seed Width (FT):	Seed Area (SY):

CHANNEL CROSS SECTIONS
 TRU-193-23.897

DESIGN AGENCY



DESIGNER

NKF

REVIEWER

MJP MM-DD-YY

PROJECT ID

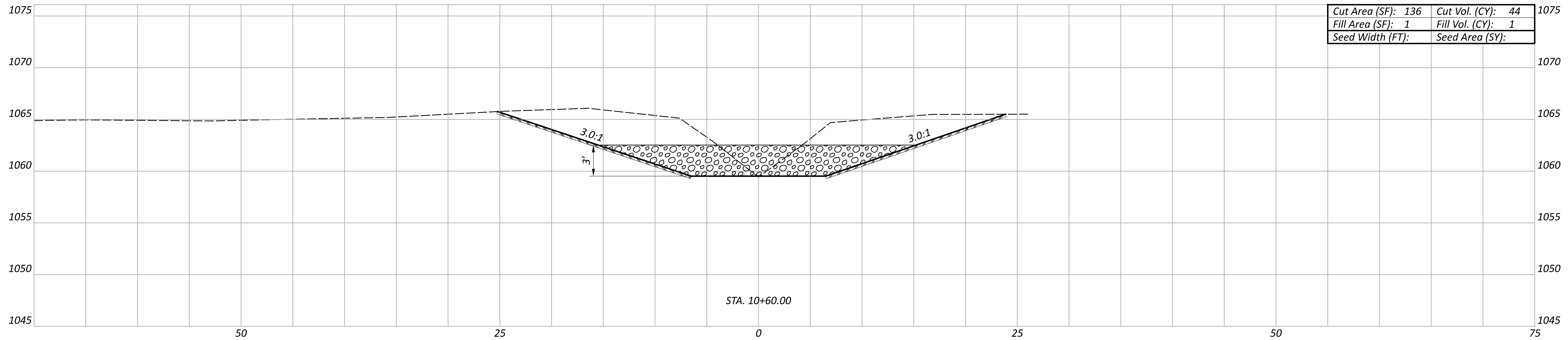
122339

Sheet Totals			SHEET	TOTAL
Seeding	Cut	Fill	P.33	34
	20	6		

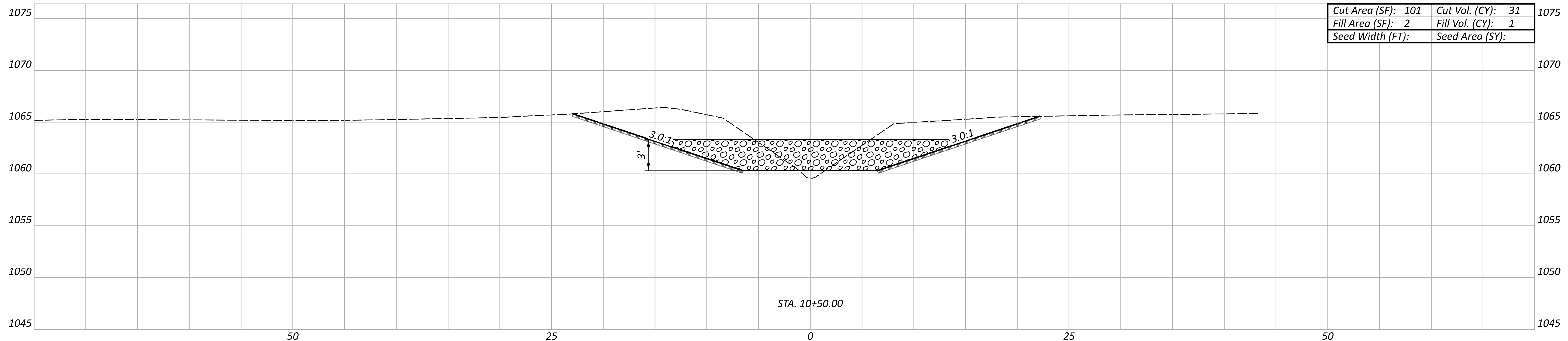
LEGEND

 ROCK CHANNEL PROTECTION, TYPE A WITH AGGREGATE FILTER

 SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT



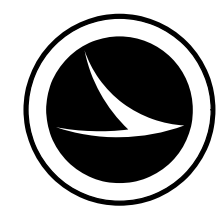
Cut Area (SF):	136	Cut Vol. (CY):	44
Fill Area (SF):	1	Fill Vol. (CY):	1
Seed Width (FT):		Seed Area (SY):	



Cut Area (SF):	101	Cut Vol. (CY):	31
Fill Area (SF):	2	Fill Vol. (CY):	1
Seed Width (FT):		Seed Area (SY):	

CHANNEL CROSS SECTIONS
 TRU-193-23.897

DESIGN AGENCY



DESIGNER
 NKF

REVIEWER
 MJP MM-DD-YY

PROJECT ID
 122339

Sheet Totals			TOTAL	
Seeding	Cut	Fill	SHEET	TOTAL
	75	2	P.34	34