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SHEET NUM.											PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
12	13	26	28	29	30						01/SAE/OT	EXT	TOTAL				
															TRAFFIC CONTROL		
											12	621	00100	12	EACH	RPM	
											12	621	54000	12	EACH	RAISED PAVEMENT MARKER REMOVED	
3											3	626	00110	3	EACH	BARRIER REFLECTOR, TYPE 2, BIDIRECTIONAL	
					218						218	630	03100	218	FT	GROUND MOUNTED SUPPORT, NO. 3 POST	
					8						8	630	08600	8	EACH	SIGN POST REFLECTOR	
											24	630	85100	24	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	
					24						16	630	86002	16	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
				0.5	16						0.5	644	00104	0.5	MILE	EDGE LINE, 6"	
				0.29							0.29	644	00300	0.29	MILE	CENTER LINE	
				30							30	644	00500	30	FT	STOP LINE	
																MAINTENANCE OF TRAFFIC	
											LS	614	12420	LS		DETOUR SIGNING	
											48	614	11110	48	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
																INCIDENTALS	
											LS	614	11000	LS		MAINTAINING TRAFFIC	
											LS	623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
											LS	624	10000	LS		MOBILIZATION	

GENERAL SUMMARY

PRE-SR 177-0.70

CALCULATED  
A WH  
CHECKED  
EVM

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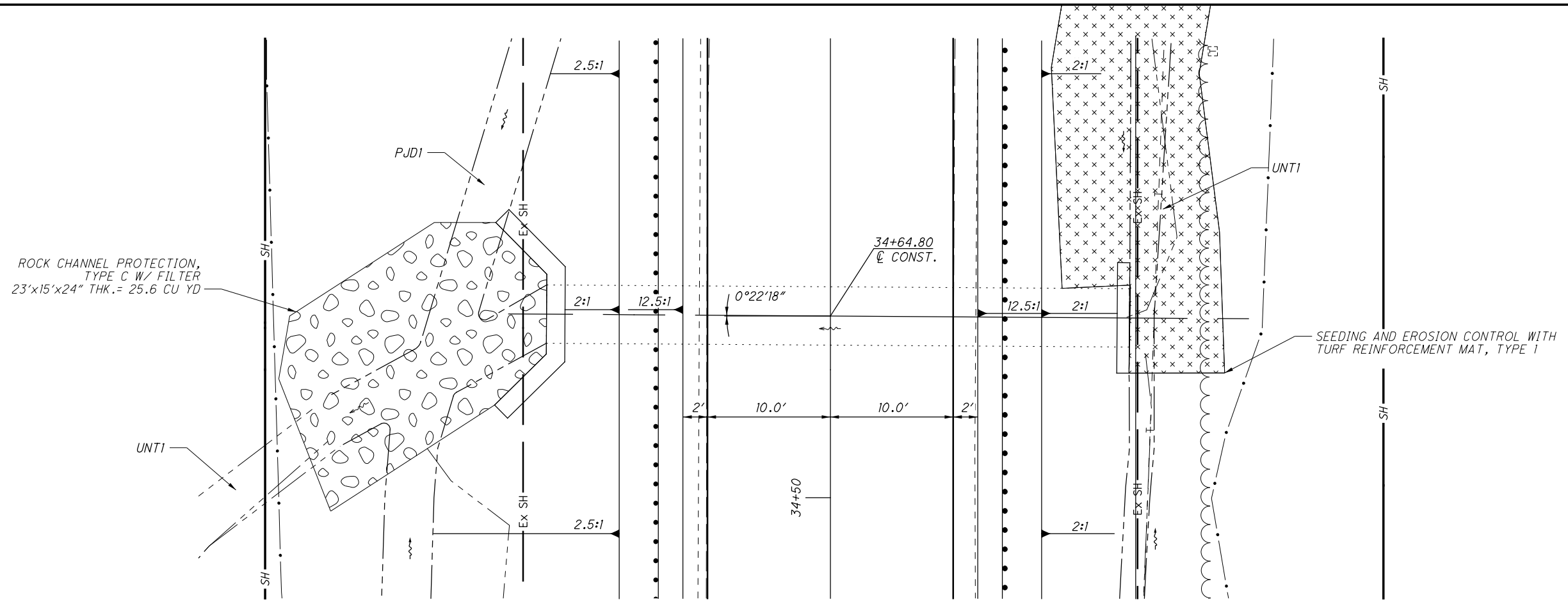
REF. NO.	SHEET		STATION TO STATION		SIDE	203	203	601	602	605	605	611	611	611	659	659	659	659	659	659	670	832	832	832	832	836		
	BEGIN	END	SR 177			EARTH EXCAVATION	EMBANKMENT	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER	CONCRETE MASONRY	6" UNCLASSIFIED PIPE UNDERDRAINS	6" BASE PIPE UNDERDRAINS	PRECAST REINFORCED CONCRETE OUTLET	CATCH BASIN ADJUST TO GRADE	36" CONDUIT TYPE B	6" CONDUIT TYPE F FOR UNDERDRAINS	SOIL ANALYSIS TEST	TOPSOIL	SEEDING AND MULCHING	REPAIR SEEDING AND MULCHING	COMMERCIAL FERTILIZER	LIME	WATER	DITCH EROSION PROTECTION MAT TYPE B	STORM WATER POLLUTION PREVENTION PLAN	STORM WATER POLLUTION PREVENTION INSPECTIONS	STORM WATER POLLUTION PREVENTION INSPECTIONS SOFTWARE	EROSION CONTROL	SEEDING AND EROSION CONTROL WITH TURF REINFORCEMENT MAT, TYPE 1
						CY	CY	CY	CY	FT	FT	EACH	EACH	FT	FT	EACH	CY	SY	SY	TON	ACRE	MGAL	SY	LSUM	LSUM	LSUM	EACH	SY
D-1	16		34+48.90	34+71.72	LT			26																				
D-2	16		34+60.13	35+56.82	RT																							
D-3	16		35+63.00		LT																							
D-4	16		34+93.40	35+35.60	LT							1																
D-5	16		34+64.90		LT				8.8				42															
D-6	15		34+64.60		RT				1.1																			
UD-1	15		29+51.00	31+25.00	LT					174				10														
UD-2	15		29+51.00	31+25.00	RT					198																		
UD-3	15	16	31+25.00	34+52.00	LT					327	327	1		10														
UD-4	15	16	31+25.00	34+52.00	RT						327	1		10														
UD-5	16		34+69.71	36+26.82	LT						157			10														
UD-6	16		34+68.26	35+71.89	RT						104	1		10														
UD-7	16	17	37+17.00	43+30.00	LT						613	1		10														
UD-8	16	17	36+75.00	43+30.00	RT						655	1		10														
LENGTH OF PROJECT					LT/RT	4157	682								2								1	1	1	25000		
SOUTHWEST					LT										238	2096	106	0.29	0.44	11.38	208							
NORTHWEST					LT										197	1731	87	0.24	0.36	9.39	292							
NORTHEAST					RT										215	1895	96	0.26	0.39	10.28								
SOUTHEAST					RT										250	2203	111	0.31	0.46	11.95							127	
<b>TOTALS CARRIED TO GENERAL SUMMARY</b>						4157	682	26	9.9	699	2183	6	1	42	70	2	900	7925	400	1.1	1.65	43	500	1	1	1	25000	127

ESTIMATED QUANTITIES

PRE-SR 177-0.70

CALCULATED  
A WH  
CHECKED  
EVM

13  
43



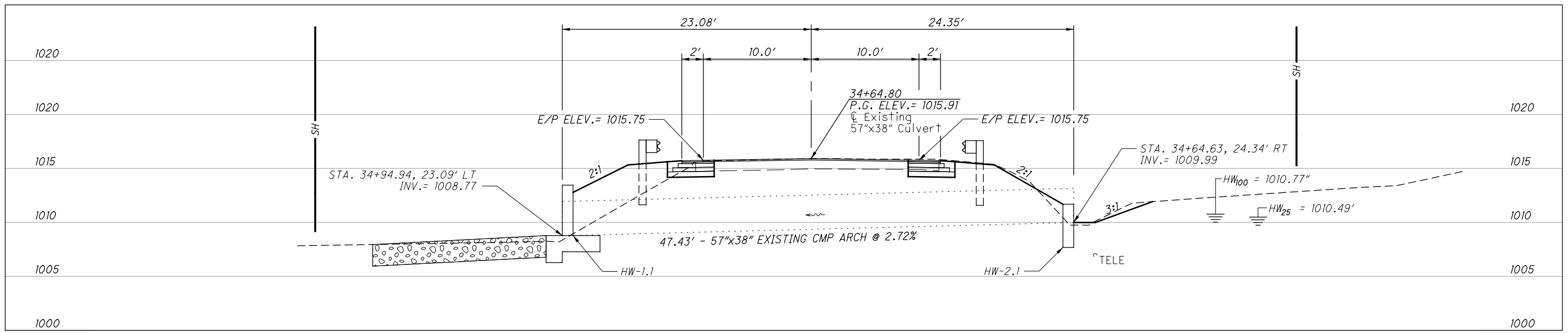
HYDRAULIC DESIGN DATA	
DRAINAGE AREA	= 107.54 AC.
Q <sub>25</sub>	= 68.21 CFS
Q <sub>100</sub>	= 87.64 CFS
HW <sub>25</sub>	= 1010.49'
HW <sub>100</sub>	= 1010.77'
V <sub>25</sub>	= 10.01 FT/S
V <sub>100</sub>	= 10.75 FT/S
ORDINARY HIGH WATER MARK:	= 1010.32'
DESIGN SERVICE LIFE:	N/A

EXISTING STRUCTURE	
TYPE:	CORRUGATED METAL PIPE ARCH
SIZE:	57"x38"
SKEW:	0°22'18" L.F. ALIGNMENT: TANGENT
DATE BUILT:	UNKNOWN
CONDITION:	FAIR

TABLE OF MODIFIED DIMENSIONS FOR STANDARD HW-1.1

PIPE DIA. D	H	a	b	c	t <sub>s</sub>	Bar#	θ ≈ 0°			
							L <sub>2</sub>	h <sub>2</sub>	Conc. CMP (cy)	Steel (lbs.)
57"x38"	5'-0"	3'-0"	1'-6"	2'-9"	1'-6"	#5	3'-3"	3'-6"	8.8	831

ESTIMATED QUANTITIES			
ITEM	QUAN.	UNIT	DESCRIPTION
503	1	LSUM	COFFERDAMS AND EXCAVATION BRACING
503	14	CU YD	UNCLASSIFIED EXCAVATION
601	26	CU YD	ROCK CHANNEL PROTECTION, TYPE C, WITH FILTER
602	9.9	CU YD	CONCRETE MASONRY
836	127	SQ YD	SEEDING AND EROSION CONTROL WITH TURF REINFORCEMENT MAT, TYPE I



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