

SUMMARY OF DRAINAGE STRUCTURES

STR. NO.	P&P SHEET	LOCATION DESCRIPTION	SIDEDRAIN OR CROSSDRAIN	CLASS AA CONCRETE 509(D)	REINF. STEEL	INL. GPI TYPE 1 DES. 2 611(G)	18" CORR. GALV. STEEL PIPE 613(B)	24" CORR. GALV. STEEL PIPE 613(B)	30" CORR. GALV. STEEL PIPE 613(B)	A4 CULV. END TRTMT. (GR) 613(M)
				①	511(A)	EA.	L.F.	L.F.	L.F.	EA.
1	16	STA. 28+35; 146' LT. STD. GPI TYPE 1 (DES. 2) W/ 24 L.F. 30" CGSP	S	-	-	1	-	-	24	-
2	16	STA. 28+71.80; 49.11' RT. EX. 6'X5' RCB 73' RT.	C	71.12	9760	-	-	-	-	-
3	16	STA. 36+61; 32' LT. 50 L.F. 18" CGSP	S	-	-	-	54	-	-	2
4	17	STA. 2865+27.9; 56.3' RT. C.R.L. PUBLIC RD #4 EX. 5'X4.25' RCB 38' LT.	C	45.80	5546	-	-	-	-	-
T1	31	STA. 36+98.9; 30.22 LT CL DET 2 60 L.F. 18" CGSP	S	-	-	-	60	-	-	-
T2	31	STA. 38+64.6; 18.5' LT 24" CGSP DROP INLET W/ 79' L.F. 18 CGSP	C	-	-	-	79	3	-	-
TOTAL				116.92	15,306	1	193	3	24	2

① COST FOR UNCL. EXCAV. AND STR. EXCAV. SHALL BE INCLUDED IN THE UNIT PRICE BID PER C.Y. FOR CLASS AA AND CLASS A CONCRETE.

② FOR ALL PIPE CONDUITS: TRENCH EXCAVATION AND BACKFILL WILL NOT BE PAY ITEMS ON THIS PROJECT. COSTS FOR TRENCH EXCAVATION AND BACKFILL IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS SHALL BE INCLUDED IN THE UNIT PRICE BID PER L.F. FOR THE PIPE.

③ COST OF 24" CGSP TO INCLUDE THE DROP INLET GRATE AND CONCRETE BOTTOM AS DETAILED ON DETAIL SHT. 31

SUMMARY OF GUARDRAIL

DETAIL SHT.	Station to Station (C Survey)	LOCATION		BEAM GUARDRAIL W-BEAM SINGLE 623 (A)	ANCHOR UNITS		TOTAL LENGTH INCLUDING ANCHOR UNITS	GUARDRAIL WIDENING QUANTITIES			
		LEFT	RIGHT		GUARD RAIL BRIDGE CONN. THREE BEAM 623 (I)	GUARDRAIL END TREATMENT (31") 623 (G)		PRIME COAT 408	SUPERPAVE TYPE S4 (PG64-22 OK) 411(C)	CLASS "C" CONCRETE 509(D)	GUARDRAIL CURING 623
		L.F.	L.F.		EA.	EA.		L.F.	GAL.	TON	C.Y.
25	22+65.98 TO 24+05.17		X	68.75	1	1	134.38	38	12.1	4.04	1
25	22+88.30 TO 24+05.17	X		56.25	1	1	121.88	34	10.8	-	-
26	28+06.75 TO 29+40.53	X		68.75	1	1	134.38	36	11.4	-	-
26	28+06.75 TO 29+09.27		X	37.50	1	1	103.12	43	13.4	-	-
Totals:				231.25	4	4	-	151	47.8	9.85	2

⑥ CLASS "C" CONCRETE IS FOR CONCRETE SLOPE DRAINS AND SPLASH BASINS AS SHOWN IN THE PLANS

SUMMARY OF REMOVALS

PHASE	①									PAY ITEMS				
	FENCE	5'X4.25' RCB INCL. HDWLLS.	5'X6' RCB INCL. HDWLLS.	AREA INLET	SIGNS NOT TO BE RESET	PAVED DITCH ④	18" CMP ③	21" CMP ③	SAW CUT	COLD MILLING PAYMENT	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	REMOVAL OF ASPHALT PAVEMENT	REMOVAL OF GUARDRAIL	REMOVE & RESET MAILBOX
	L.F.	L.F.	EA.	EA.	EA.	L.F.	L.F.	L.F.	L.F.	S.Y.	L.SUM	S.Y.	L.F.	EA.
1	551	-	1	1	1	262	-	51	25	-	1	-	152	1
2	597	-	-	-	-	-	-	-	41	898	-	5080	151	-
3	-	1	-	1	-	-	141	-	-	-	-	7257	296	-
TOTALS:	1148	1	1	2	1	262	141	51	66	898	1	② 12,337	599	1

① NOT MEASURED FOR PAYMENT BUT TO BE INCLUDED IN THE LUMP SUM ITEM "REMOVAL OF STRUCTURES AND OBSTRUCTIONS". PROVIDED FOR INFORMATION ONLY.

② INCL. 3267 S.Y. DETOUR PAV'T. CONSTR. ON THIS PROJECT.

③ REMOVAL OF THE PIPE INCLUDES REMOVAL OF HDWLL. OR END TREATMENT.

SUMMARY OF EARTHWORK QUANTITIES

CONSTRUCTION PHASE	P&P SHEET	STATION TO STATION	UNCLASSIFIED EXCAVATION 202 (A)	EMBANKMENT	EMBANKMENT (+ 15%) ①	WASTE	UNCLASSIFIED BORROW 202(D)	CUMULATIVE TOTAL
			C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.
DETOUR	15	STA. 15+15.34 TO STA. 25+12.00 C.R.L. ROCK CRUSHER RD.	130	-	-	130	-	-
	16	STA. 27+34.00 TO STA. 36+53.50 C.R.L. ROCK CRUSHER RD.	43	5073	5834	-	5791	-
PHASE 2	15	STA. 15+15.34 TO STA. 25+12.00 C.R.L. ROCK CRUSHER RD.	1625	10,565	12,149	-	10,524	-
	16	STA. 27+34.00 TO STA. 39+97 C.R.L. ROCK CRUSHER RD.	10,007	14,310	16,456	-	6449	-
	17	STA. 2858+86.36 TO STA. 2862+51.14 C.R.L. PUBLIC RD. #4	1305	2669	3069	-	1764	-
	-	VOLUME OF EXISTING PAVEMENT REMOVED	-1129	-	-	-	1129	-
	-	-	-	-	-	-	-	25,527 ③
PHASE 3	15	STA. 15+15.34 TO STA. 25+12.00 C.R.L. ROCK CRUSHER RD.	5685	469	539	5145	-	-
	16	STA. 27+34.00 TO STA. 39+97 C.R.L. ROCK CRUSHER RD.	7188	166	191	6997	-	-
	17	STA. 2863+49.28 TO STA. 2868+55.09 C.R.L. PUBLIC RD. #4	3502	9777	11,244	-	7742	-
	-	VOLUME OF EXISTING PAVEMENT REMOVED	-887	-	-	-	887	-
TOTALS:			27,469 ④	-	49,483	-	-	-

① EMBANKMENT WILL NOT BE A PAY ITEM ON THIS PROJECT. THE COST TO CONSTRUCT THE EMBANKMENTS AS SHOWN IN THE PLANS SHALL BE COMPRISED OF THE PRICE BID FOR THE EXCAVATION AND THE BORROW PAY ITEMS. THE CONTRACTOR SHALL FIRST SELECT FILL MATERIAL FROM EXCAVATED SOILS, AS APPROVED BY THE ENGINEER AND THEN MAKE UP THE VOLUME DIFFERENCE IN APPROVED UNCLASSIFIED BORROW SECURED FROM OTHER SOURCES. THE CONTRACTOR WILL BE RESPONSIBLE FOR LOCATING A SOURCE FOR APPROVED BORROW MATERIAL. THE VOLUME SHOWN FOR EMBANKMENT INCLUDES 15% FOR COMPACTION.

② EXCAVATION WILL NOT BE MEASURED IN THE FIELD BUT WILL BE PAID FOR AS THE PLAN QUANTITY OF UNCLASSIFIED EXCAVATION TIMES THE UNIT PRICE BID PER C.Y. OF EXCAVATION. SEE SECTION 109.01(b) OF THE STANDARD SPECIFICATIONS.

③ THIS IS THE ESTIMATED PAY QUANTITY FOR UNCLASSIFIED BORROW.

④ THIS IS THE ESTIMATED PAY QUANTITY FOR UNCLASSIFIED EXCAVATION.

DESIGN	JHJ	SUMMARY SHEET (2 OF 2)
DRAWN	JHJ	
CHECKED	DEF	
APPROVED	SJG	
SQUAD	G/K ENGR.	
JOB PIECE NO. 30363(04)		SHEET NO. 9