Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sut	99	10.9/14.7	130	330

REGISTERED CIVIL ENGINEER 12-19-08 DATE

6-22-09
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER RODOLFO AVILA Jr. No. 63700 Exp. 9-30-10 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

3 REVISED PER ADDENDUM No. 3 DATED MARCH 30, 2010

4 REVISED PER ADDENDUM No. 4 DATED APRIL 1, 2010

DRAINAGE QUANTITIES

3 4

DRAINAGE PLAN No.	DRAINAGE SYSTEM No.	DRAINAGE UNIT	REMOVE CULVERT (LF)	ABANDON CULVERT (EA)	~~ABANDON STANDPIPE (EA)~~	SAND BACKFILL (CY)	REMOVE INLET (EA)	REMOVE FES (EA)	REMOVE HEADWALL (EA)	REMOVE WINGWALL (EA)	REMOVE SIPHON (EA)	18" REINFORCED CONCRETE PIPE (LF)	24" REINFORCED CONCRETE PIPE (LF)	30" REINFORCED CONCRETE PIPE (LF)	36" REINFORCED CONCRETE PIPE (LF)	48" REINFORCED CONCRETE PIPE (LF)	12" CSP (.079" THICK) (LF)	18" CSP (.079" THICK) (LF)	18" SLOTTED CSP (.079" THICK) (LF)	24" CSP (.079" THICK) (LF)	24" CSP DD (0.079" THICK) (LF)	24" ANCHOR ASSEMBLY (EA)	24" DD SLIP JOINT (EA)	24" STEEL FES (EA)	18" CONCRETE FES (EA)	24" CONCRETE FES (EA)	(N) BAR REINFORCING STEEL (LB)	MISCELLANEOUS IRON AND STEEL (LB)	MINOR CONCRETE (MINOR STRUCTURE) (CY)	* ROCK SLOPE PROTECTION (LIGHT, METHOD B) (CY)	* ROCK SLOPE PROTECTION FABRIC (SQYD)	(N) HEIGHT OF INLET "H" (LF)	(N) FRAME AND GRATE (TYPE 24-12X) (EA)	(N) TYPICAL COVER (LF)	* CLASS 4 CONCRETE (BACKFILL) (CY)	DESCRIPTION	STATION	DRAINAGE SYSTEM No.	DRAINAGE UNIT
4	8	i																										473	2.27			5'-0"	2			TYPE GDO INLET	"BR" 202+00 TO 212+00	8	i
		j																		84.3																24" CSP			j
		k																						1												24" STEEL FES			k
4	9	a		1		28.5																														ABANDON 30" X 157'.0 RCP	"BR" 212+88.3	9	a
5		b					1																													REMOVE INLET			b
5		c	20.5																																	REMOVE 24" X 20.5' RCP			c
4	10	a	70.4																															2.4		REMOVE 18" x 70.4' RCP	"JE" 32+61.0	10	a
		b	26.0																															2.8		REMOVE 18" x 26.0' RCP			b
~~4~~	~~11~~	~~a~~				~~0.1~~																														~~ABANDON STANDPIPE~~	~~"JE" 32+47.9~~	~~11~~	~~a~~
4	12	a	48.6																																	REMOVE 18" x 48.6' RCP	"GH" 115+54.5	12	a
		b										45.0																								18" RCP			b
4	13	a																							1											18" CONCRETE FES	"GH" 117+41.0	13	a
		b										45.0																								18" RCP			b
		c																							1											18" CONCRETE FES			c
~~4~~	~~14~~	~~a~~				~~0.1~~																														~~ABANDON STANDPIPE~~	~~"JE" 25+17.0~~	~~14~~	~~a~~
5	15	a																							1											18" CONCRETE FES	"GH" 103+00.0	15	a
		b										48.5																								18" RCP			b
		c																							1											18" CONCRETE FES			c
5	16	a							1																											REMOVE HEADWALL	"GH" 105+91.0	16	a
		b								1																										REMOVE WINGWALL			b
		c										12.0																								18" RCP			c
		d																									50		0.91							HEADWALL			d
6	17	a																										473	2.27			5'-0"	2			TYPE GDO INLET	"BR" 248+50.0	17	a
		b																		70.2																24" CSP			b
		c																			31.6	3	1												24" CSP DD; 25° ELBOW			c
		d																												6.22	18.22					RSP			d
6	18	a																										473	2.27			5'-0"	2			TYPE GDO INLET	"BR" 251+50.0	18	a
		b																		59.8																24" CSP			b
		c																			28.2	3	1												24" CSP DD; 25° ELBOW			c
		d																												6.22	18.22					RSP			d
6	19	a																										473	2.27			5'-0"	2			TYPE GDO INLET	"BR" 253+70.4	19	a
		b																		60.0																24" CSP			b
		c																			13.5	2	1												24" CSP DD; 25° ELBOW			c
		d																												6.22	18.22					RSP			d
SHEET TOTAL			165.5	1	2	28.5	1		1	1		150.5								274.3	73.3	8	3	1	4			1892	9.99	18.66	54.66								

(N) NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY
* FOR TOTAL SEE SUMMARY OF QUANTITIES

DRAINAGE QUANTITIES

DQ-2

SYLVIA S. CHAN — REVISED BY
RODOLFO AVILA JR. — DATE REVISED
CALCULATED-DESIGNED BY
CHECKED BY
FUNCTIONAL SUPERVISOR
GERALD WONG

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
NORTH REGION
OFFICE OF DESIGN, SOUTH
DESIGN BRANCH 9

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LAST REVISION 00-00-00 | DATE PLOTTED => 01-APR-2010 | TIME PLOTTED => 10:22

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sut	99	10.9/14.7	131	330

REGISTERED CIVIL ENGINEER 12-19-08 DATE

6-22-09
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER RODOLFO AVILA Jr. No. 63700 Exp. 9-30-10 CIVIL STATE OF CALIFORNIA

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3 REVISED PER ADDENDUM No. 3 DATED MARCH 30, 2010

4 REVISED PER ADDENDUM No. 4 DATED APRIL 1, 2010

DRAINAGE QUANTITIES

DRAINAGE PLAN No.	DRAINAGE SYSTEM No.	DRAINAGE UNIT	REMOVE CULVERT (LF)	ABANDON CULVERT (EA)	~~ABANDON STANDPIPE (EA)~~ 3	SAND BACKFILL (CY)	REMOVE INLET (EA)	REMOVE FES (EA)	REMOVE HEADWALL (EA)	REMOVE WINGWALL (EA)	REMOVE SIPHON (EA)	18" REINFORCED CONCRETE PIPE (LF)	24" REINFORCED CONCRETE PIPE (LF)	30" REINFORCED CONCRETE PIPE (LF)	36" REINFORCED CONCRETE PIPE (LF)	48" REINFORCED CONCRETE PIPE (LF)	12" CSP (.079" THICK) (LF)	18" CSP (.079" THICK) (LF)	18" SLOTTED CSP (.079" THICK) (LF)	24" CSP (.079" THICK) (LF)	24" CSP DD (0.079" THICK) (LF)	24" ANCHOR ASSEMBLY (EA)	24" DD SLIP JOINT (EA)	24" STEEL FES (EA)	18" CONCRETE FES (EA)	24" CONCRETE FES (EA)	BAR REINFORCING STEEL (N) (LB)	MISCELLANEOUS IRON AND STEEL (LB)	MINOR CONCRETE (MINOR STRUCTURE) (CY)	ROCK SLOPE PROTECTION (LIGHT, METHOD B) * (CY)	ROCK SLOPE PROTECTION FABRIC * (SQYD)	HEIGHT OF INLET "H" (N) (LF)	FRAME AND GRATE (TYPE 24-12X) (N) (EA)	TYPICAL COVER (N) (LF)	CLASS 4 CONCRETE (BACKFILL) * (CY)	DESCRIPTION	STATION	DRAINAGE SYSTEM No.	DRAINAGE UNIT
6	20	a												32.0																							30" RCP	"BR" 259+46.5	20	a
8	21	a													20.0																						36" RCP	"M2" 306+82.0	21	a
		b													46.5																						36" RCP	"M2" 306+82.0		b
8	22	a	34.8																																		REMOVE 12" x 34.8' CPP	"M2" 307+15.0	22	a
		b											34.8																								24" RCP			b
		c																										75		1.20							HEADWALL			c
9	23	a																									1										24" CONCRETE FES	"M2" 314+60.0	23	a
		b											93.4																								24" RCP			b
		c																									1										24" CONCRETE FES			c
9	24	a	116.8																																		REMOVE 18" x 116.8' RCP	"M2" 327+78.8	24	a
		b											156.8																								24" RCP			b
9	25	a									1																										REMOVE SIPHON	"M2" 328+27.0	25	a
		b									1																										REMOVE SIPHON			b
		c	142.4																																		REMOVE 36" x 142.4' RCP			c
		d														204.4															42.0	148.9				16.5	48" RCP			d
		e																										320		5.4							HEADWALL			e
		f																										320		5.4							HEADWALL			f
4	26	a											96.0																								24" RCP	"JE" 32+00.0	26	a
5	27	a											91.7																								24" RCP	"JW" 61+00.0	27	a
6	28	a																											473	2.27			5'-0"	2			TYPE GDO INLET	"BR" 258+50.0 TO 260+91.5	28	a
		b																147.0																			18" CSP			b
		c																											473	2.27			5'-0"	2			TYPE GDO INLET			c
		d																	88.5																		18" SLOTTED CSP			d
		e																											473	2.59			6'-0"	2			TYPE GDO INLET			e
		f																		68.0																	24" CSP			f
		g																													12.50	35.00					RSP			g
FROM IPE																																				5.5	SEE UTILITY DETAILS SHEET			
SHEET TOTAL			294.0			4					2		472.7	32.0	66.5	204.4		147.0	88.5	68.0						2		1419	20.97	54.5	183.9								
	DQ-1		291.7				1	6	3				229.0		18.0		48.4			1000.0						4		1892	21.07										
	DQ-2		165.5	1	2	28.5	1		1	1		150.5								274.3	73.3	8	3	1	4			1892	9.99	18.66	54.66								
GRAND TOTAL			751.2	1	2	28.5	2	6	4	1	2	150.5	701.7	32.0	84.5	204.4	48.4	147.0	88.5	1342.3	73.3	8	3	1	4	6		5203	52.03	73.16	238.56				22.0				

(N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.
* FOR TOTAL SEE SUMMARY OF QUANTITIES

DRAINAGE QUANTITIES

DQ-3

REVISED BY | DATE REVISED

SYLVIA S. CHAN | RODOLFO AVILA JR.

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR: GERALD WONG

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
NORTH REGION
OFFICE OF DESIGN, SOUTH
DESIGN BRANCH 9

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