Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1,20,101	Var	65	99

Sarju D. Patel 10-27-11
REGISTERED CIVIL ENGINEER DATE

2-4-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SARJU D. PATEL No. C 65611 Exp 09-30-13 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.

DRAINAGE QUANTITIES

DRAINAGE SYSTEM No. (PLAN Sht No.)	DRAINAGE UNIT No.	ROUTE	POST MILE	REMOVE INLET EA	REMOVE CULVERT EA	REMOVE FLARED END SECTION EA	REMOVE DOWN DRAIN EA	REMOVE HEADWALL EA	ABANDON CULVERT LF	SAND BACKFILL CY	HDPE PLASTIC PIPELINER (20" OD SDR 26) LF	JACKED 24" WSP (.250" THICK) LF	APC 24" LF	APC 36" LF	APC 48" LF	24" ALTERNITAVE PIPE DOWNDRAIN LF	(N) ALTERNATIVE PIPE CULVERT ELBOW EA	ANCHOR ASSEMBLY EA	24" ALTERNATIVE FLARE END SECTION EA	RSP (METHOD B) (LIGHT) CY	RSP (METHOD B) (1/4 TON) CY	RSP (METHOD B) FABRIC SQYD	36" PRECAST CONCRETE PIPE INLET LF	(N) HEIGHT OF INLET LF	MINOR CONCRETE (MINOR STRUCTURE) CY	Misc IRON & STEEL LB	(N) Max COVER LF	MARKER (Culv) EA	DESCRIPTION	DRAINAGE UNIT No.	DRAINAGE SYSTEM No. (PLAN Sht No.)
39	a	20	30.29		1																								REMOVE CULVERT (18" x 56.4' CMP)	a	39
	b												57.2			2											4.20	2	24" APC	b	
	c																								1.20				24" HW	c	
	d															~~124.5~~			1										24" AFES	d	
40	a	20	30.59		1																								REMOVE CULVERT (24" x 55.1' CMP)	a	40
	b												54.1																24" APC	b	
	c																								1.20		3.72	2	24" HW	c	
	d																				9.3	22.7							RSP (1/4 T, METHOD B)	d	
41	a	20	30.67	1																									REMOVE INLET	a	41
	b				1																								REMOVE CULVERT (18" x 57.1' CMP)	b	
	c												55.9														6.64	2	24" APC	c	
	d																							13.5	1.88	238			GO - DI W/24-12X GRATE	d	
	e																				9.3	22.7							RSP (1/4 T, METHOD B)	e	
42	a	20	31.00		1																								REMOVE CULVERT (18" x 61.4' CMP)	a	42
	b												55.9														4.57	2	24" APC	b	
	c																								1.20				24" HW	c	
	d																				23.3	42.6							RSP (1/4 T, METHOD B)	d	
43	a	20	31.72		1																								REMOVE CULVERT (18" x 73.5' CMP)	a	43
	b												73.6														2.29	2	24" APC	b	
	c																		1										24" AFES	c	
	d																		1										24" AFES	d	
44	a	20	31.84		1																								REMOVE CULVERT (24" x 60.4' CMP)	a	44
	b												64.5														6.78	2	24" APC	b	
	c																								1.20				24" HW	c	
	d																		1										24" AFES	d	
45	a	20	31.99		1																								REMOVE CULVERT (18" x 38.7' CMP)	a	45
	b				1																								REMOVE CULVERT (18" x 15.4' CMP)	b	
	c								1	1.73																			ABANDON CULVERT (18" x 26.2' CMP)	c	
	d													69.0													8.90	2	36" APC	d	
	e																								1.95				36" HW	e	
	f															2				17.9		38.4							RSP (LIGHT, METHOD B)	f	
TOTALS				1	8	-	-	-	1	1.73	-	-	361.2	69.0	-	~~124.5~~	-	-	4	17.9	41.9	126.4	-	-	8.63	238	-	14			

*(N) = NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

2 REVISED PER ADDENDUM NO.2 DATED JULY 3, 2013

DRAINAGE QUANTITIES

DQ-7

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
03-DESIGN
FUNCTIONAL SUPERVISOR: ROBERT E. POLGAR
CALCULATED-DESIGNED BY: SARJU D. PATEL
CHECKED BY: W. KEITH MACK
REVISED BY
DATE REVISED

LAST REVISION 00-00-11
DATE PLOTTED => 03-JUL-2013
TIME PLOTTED => 09:34

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	1,20,101	Var	66	99

Daryu D Patel 11-1-11
REGISTERED CIVIL ENGINEER DATE

2-4-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER SARJU D. PATEL No. C 65611 Exp. 09-30-13 CIVIL STATE OF CALIFORNIA

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DRAINAGE QUANTITIES

DRAINAGE SYSTEM No. (PLAN Sht No.)	DRAINAGE UNIT No.	ROUTE	POST MILE	REMOVE INLET	REMOVE CULVERT	REMOVE FLARED END SECTION	REMOVE DOWN DRAIN	REMOVE HEADWALL	ABANDON CULVERT	SAND BACKFILL	HDPE PLASTIC PIPELINER (20" OD SDR 26)	JACKED 24" WSP (.250" THICK)	APC 24"	APC 36"	APC 48"	24" ALTERNITAVE PIPE DOWNDRAIN	(N) ALTERNATIVE PIPE CULVERT ELBOW	ANCHOR ASSEMBLY	24" ALTERNATIVE FLARE END SECTION	RSP (METHOD B) (LIGHT)	RSP (METHOD B) (1/4 TON)	RSP (METHOD B) FABRIC	36" PRECAST CONCRETE PIPE INLET	(N) HEIGHT OF INLET	MINOR CONCRETE (MINOR STRUCTURE)	Misc IRON & STEEL	(N) MAXIUM COVER	MARKER (Culv)	DESCRIPTION	DRAINAGE UNIT No.	DRAINAGE SYSTEM No. (PLAN Sht No.)
				EA	EA	EA	EA	EA	LF	CY	LF	LF	LF	LF	LF	LF	EA	EA	EA	CY	CY	SQYD	LF	LF	CY	LB	LF	EA			
46	a	101	48.90		1																								REMOVE CULVERT (8" x 43.8' CMP)	a	46
	b												47.6														3.36	2	24" APC	b	
Sht DQ-2 TOTALS				2	7	-	-	1	1	8.28	-	77.3	215.6	-	-	-	-	-	1	8.1	8.8	47.8	4.1	-	10.26	454	-	12			
Sht DQ-3 TOTALS				1	8	-	1	1	-	-	-	-	272.1	-	59.2	-	-	-	-	10.9	-	32.4	-	-	4.52	238	-	14			
Sht DQ-4 TOTALS				2	8	-	1	2	-	-	-	-	353.7	-	-	7.6	1	-	2	3.8	43.0	103.3	5.0	-	5.40	454	-	14			
Sht DQ-5 TOTALS				-	7	1	1	-	-	-	73.7	-	203.9	160.8	-	34.9	2	3	-	63.6	22.7	187.2	-	-	7.95	-	-	16			
Sht DQ-6 TOTALS				-	8	-	2	-	-	-	-	-	314.9	59.7	-	72.3	1	8	2	9.3	47.9	130.1	-	-	6.75	-	-	16			
Sht DQ-7 TOTALS				1	8	-	-	-	1	1.73	-	-	361.2	69.0	-	~~124.5~~	-	-	4	17.9	41.9	88.0	-	-	8.63	238	-	14			
Sht DQ-8 TOTALS				-	1	-	-	-	-	-	-	-	47.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2			
GRAND TOTALS				6	47	1	5	4	2	10.01	73.7	77.3	1769.0	289.5	59.2	~~239.3~~ 114.8 2	4	11	9	113.6	164.3	627.2	9.1	-	43.51	1384	-	88			

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2 REVISED PER ADDENDUM NO.2 DATED JULY 3, 2013

DRAINAGE QUANTITIES

DQ-8

SARJU D. PATEL — REVISED BY — DATE REVISED
W. KEITH MACK — CALCULATED-DESIGNED BY — CHECKED BY
ROBERT E. POLGAR — FUNCTIONAL SUPERVISOR
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 03-DESIGN

LAST REVISION 00-00-11 DATE PLOTTED => 03-JUL-2013 TIME PLOTTED => 09:34