Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	8	41

LICENSED LANDSCAPE ARCHITECT

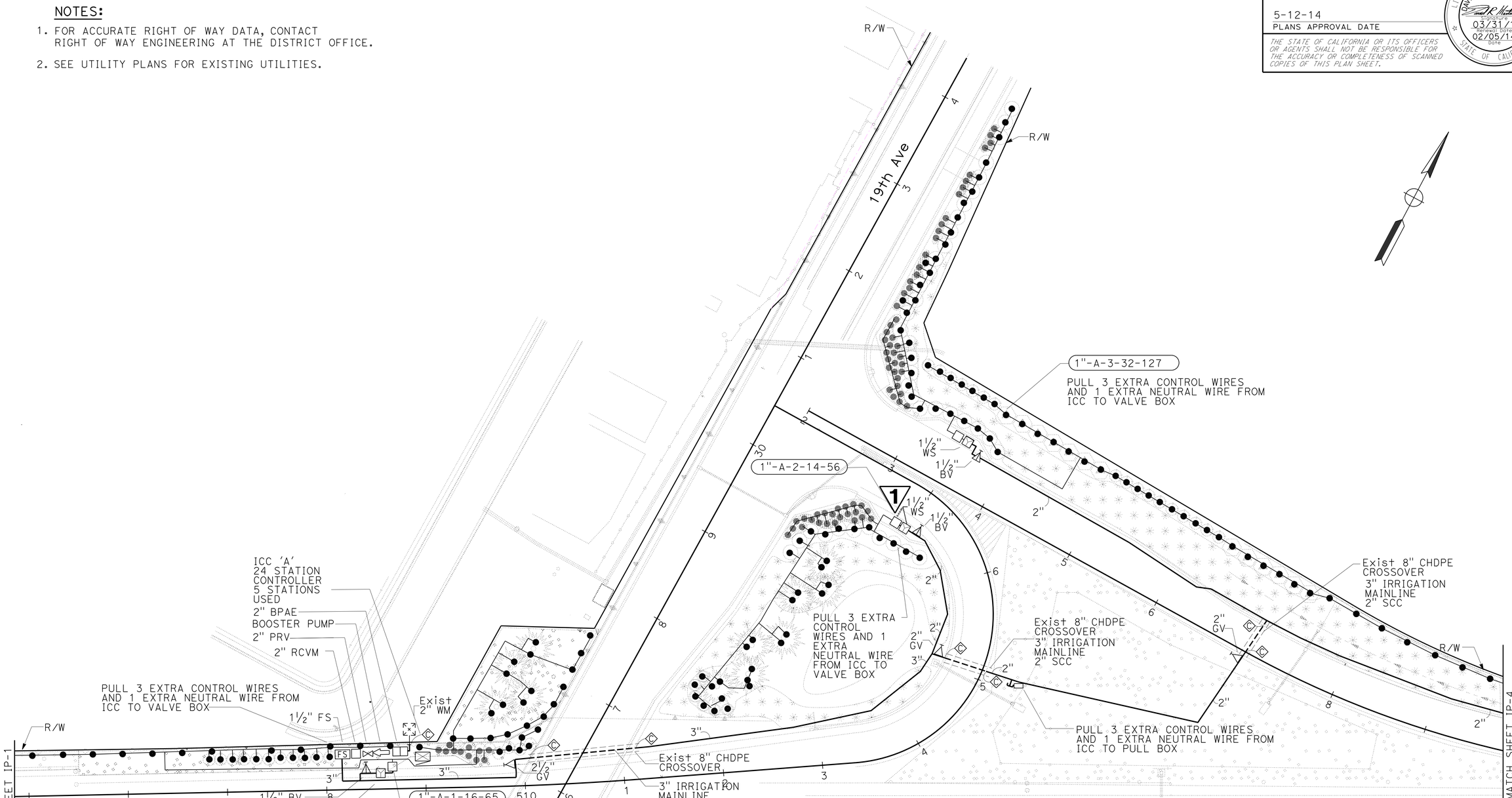
5-12-14
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
DAVID R. MARTIN #5088
Expiration Date
03/31/15
Renewal Date
02/05/14
Date
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.

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. SEE UTILITY PLANS FOR EXISTING UTILITIES.



APPROVED FOR IRRIGATION WORK ONLY

1 REPLACED PER ADDENDUM No. 1 DATED NOVEMBER 24, 2014

IRRIGATION PLAN

SCALE: 1"=50'

IP-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT: BRAD COLE
CALCULATED-DESIGNED BY: DAVID MARTIN
CHECKED BY: KEVIN GALLO
REVISED BY
DATE REVISED

LAST REVISION 05-02-14
DATE PLOTTED => 20-NOV-2014
TIME PLOTTED => 17:13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	10	41

LICENSED LANDSCAPE ARCHITECT

5-12-14
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
DAVID R. MARTIN #5098
Signature
03/31/15
Renewal Date
02/05/14
Date
STATE OF CALIFORNIA

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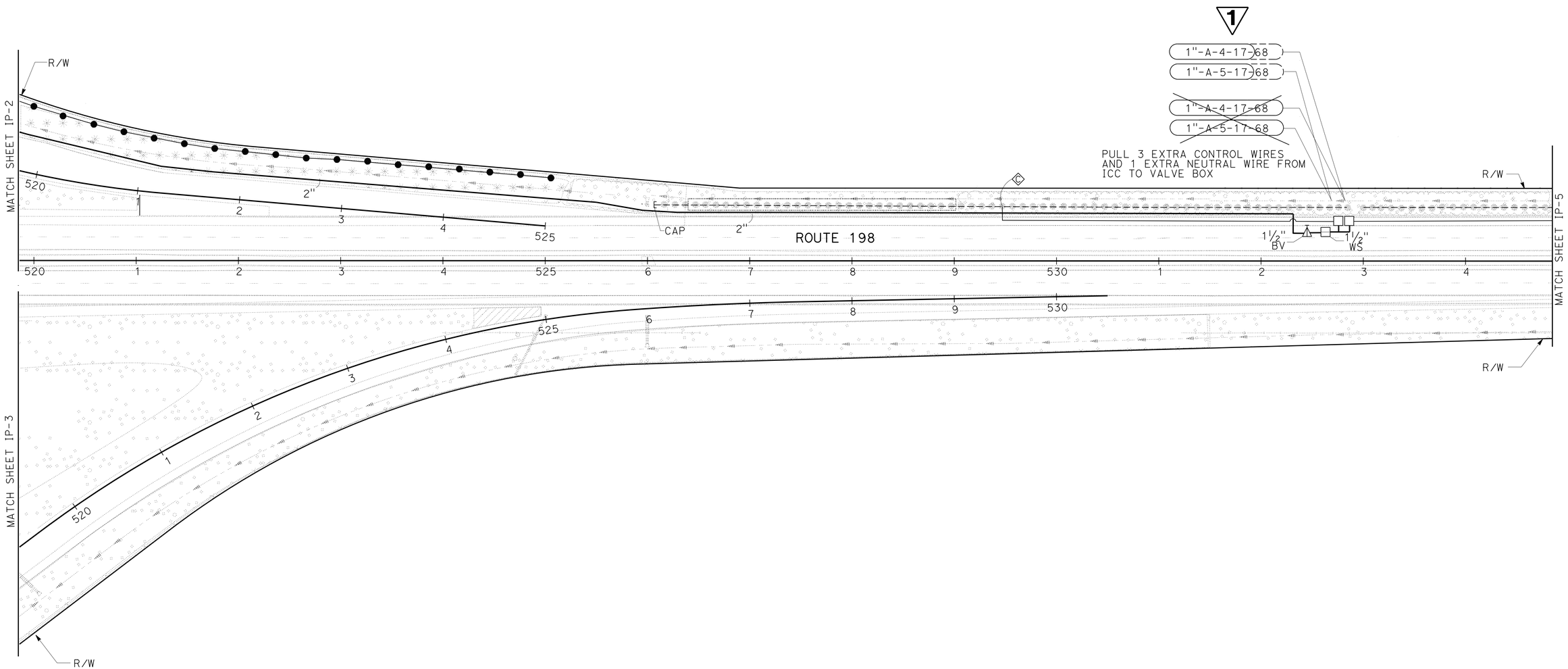


APPROVED FOR IRRIGATION WORK ONLY

1 REPLACED PER ADDENDUM No. 1 DATED NOVEMBER 24, 2014

IRRIGATION PLAN

SCALE: 1"=50'

IP-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT: BRAD COLE
CALCULATED-DESIGNED BY: DAVID MARTIN
CHECKED BY: KEVIN GALLO
REVISED BY
DATE REVISED

LAST REVISION 04-09-14
DATE PLOTTED => 20-NOV-2014
TIME PLOTTED => 17:13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	13	41

LICENSED LANDSCAPE ARCHITECT

5-12-14
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT DAVID R. MARTIN #5094 STATE OF CALIFORNIA Expiration Date 03/31/15 Renewal Date 02/05/14 Date

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.

SUBTOTALS PER PLAN SHEET ON MAIN SUPPLY SIDE OF CONTROL VALVE

DESCRIPTION			UNIT	SHEET NUMBER 1	2	3	4	SUBTOTALS
BPA		2"	EA		1	1		2
IRRIGATION CONTROLLER		24 STATION	EA		1	1		2
VALVES AND ASSEMBLIES	PRV	2"	EA		1	1		2
	RCV	1"	EA		~~3~~ 2	~~3~~ 2	2	8 ~~6~~
		1½"	EA		~~1~~	~~1~~		~~2~~
		2"	EA		1	1		2
	GV	2½"	EA		1	2		3
		2"	EA		2	2		4
	BV	1½"	EA		3	3	1	7
	FS	1½"	EA		1	1		2
	WYE	1½"	EA		3	3	1	7
CONDUIT	CSP							
	WSP							
PLASTIC PIPE SUPPLY LINE	SCHEDULE 40	¾ INCH	LF					
		1 INCH	LF					
		1¼ INCH	LF					
		1½ INCH	LF					
		2 INCH	LF		1200	1575	1400	4175
		3 INCH	LF					
	CL 315	2 INCH	LF					
		2½ INCH	LF					
		3 INCH	LF		670	580		1250
		4 INCH	LF					
		6 INCH	LF					
	GSP	2½ INCH	LF			130		130
	DIP							
	CP							

TOTAL QUANTITIES

TOTALS	UNIT	DESCRIPTION		
2	EA	2"		BPA
2	EA	24 STATION		IRRIGATION CONTROLLER
2	EA	2"	PRV	VALVES AND ASSEMBLIES
8 ~~6~~	EA	1"	RCV	
~~2~~	EA	1½"		
2	EA	2"		
3	EA	2½"	GV	
4	EA	2"		
7	EA	1½"	BV	
2	EA	1½"	FS	
7	EA	1½"	WYE	
			CSP	CONDUIT
			WSP	
5175	LF	¾ INCH	SCHEDULE 40	PLASTIC PIPE SUPPLY LINE
1830	LF	1 INCH		
975	LF	1¼ INCH		
860	LF	1½ INCH		
4220	LF	2 INCH		
	LF	3 INCH		
	LF	2 INCH	CL 315	
	LF	2½ INCH		
1250	LF	3 INCH		
	LF	4 INCH		
	LF	6 INCH		
130	LF	2½ INCH	GSP	
			DIP	
			CP	
514	EA	RSA	SPRINKLER TYPE	

1 REPLACED PER ADDENDUM No. 1 DATED NOVEMBER 24, 2014

IRRIGATION QUANTITIES

IQ-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT: BRAD COLE
CALCULATED-DESIGNED BY: DAVID MARTIN
CHECKED BY: KEVIN GALLO
REVISED BY
DATE REVISED

LAST REVISION 05-02-14
DATE PLOTTED => 21-NOV-2014
TIME PLOTTED => 09:10

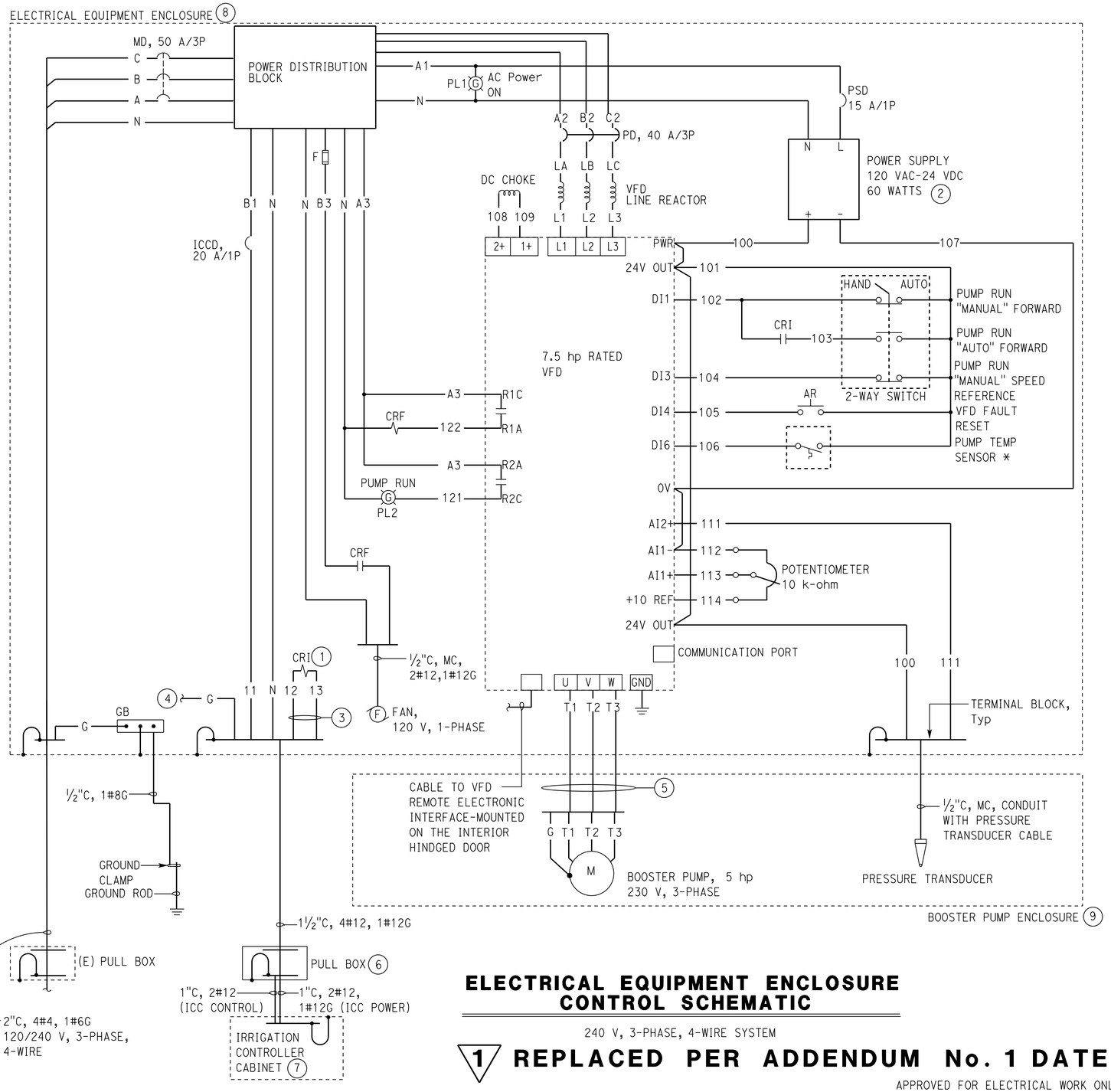
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	25	41

REGISTERED ELECTRICAL ENGINEER — DATE 5-7-2014

PLANS APPROVAL DATE 5-12-14

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.

REGISTERED PROFESSIONAL ENGINEER — Javid Amirazodi — No. E 17509 — Exp. 6-30-15 — ELEC — STATE OF CALIFORNIA



* PUMP TEMP SENSOR IS LOCATED INSIDE BOOSTER PUMP ENCLOSURE

VFD I/O BOARD		
TERMINAL		DESCRIPTION
1	24V OUT	24V CONTROL VOLTAGE
2	DI1	DIGITAL INPUT 1-PUMP RUN FORWARD
3	DI3	DIGITAL INPUT 3-SWITCHING SPEED REFERENCE
4	DI4	DIGITAL INPUT 4-VFD FAULT RESET
5	DI6	DIGITAL INPUT 6-TEMPERATURE SENSOR SIGNAL
6	AI2	ANALOG INPUT-PRESSURE TRANSDUCER INPUT
7	AI1-	ANALOG INPUT-POTENTIOMETER
8	AI1+	ANALOG INPUT-POTENTIOMETER
9	+10 REF	ANALOG INPUT-COMMON
10	R1A	RELAY LOGIC OUTPUT, NO CONTACT
11	R1C	COMMON
12	R2A,	RELAY LOGIC OUTPUT, NO CONTACT
13	R2C	COMMON

NOTES:

1. Control relay irrigation, 24 Volts AC coil.
2. 60 Watt, 120VAC - 24VDC, din rail mounted, aluminum housing and UL listed power supply.
3. To master valve/pump start terminals inside the irrigation controller cabinet.
4. Connect to ground bus.
5. 1"C, 3#8, 1#10G. Booster pump motor cables integrated with equipment grounding conductor.
6. No. 5 (T) Pull Box exact location to be determined by the engineer.
7. For exact location of Irrigation Controller Cabinet, see District plan sheets.
8. See sheet EE1-~~2~~ 3 for electrical equipment enclosure details and see sheet M-1 for exact location.
9. See sheet M-1 for Booster Pump Enclosure details.

ELECTRICAL EQUIPMENT ENCLOSURE CONTROL SCHEMATIC

240 V, 3-PHASE, 4-WIRE SYSTEM

1 **REPLACED PER ADDENDUM No. 1 DATED NOVEMBER 24, 2014**

APPROVED FOR ELECTRICAL WORK ONLY

DESIGN SUPERVISOR	DESIGN	BY Steven Roy	CHECKED Javid Amirazodi
DESIGN ENGINEER	DETAILS	BY Dali Zhou	CHECKED Steven Roy
	QUANTITIES	BY Steven Roy	CHECKED Javid Amirazodi

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES ELECTRICAL-MECHANICAL-WATER AND WASTEWATER DESIGN

BRIDGE No. — POST MILE R8.9/R10.1

BOOSTER PUMP SYSTEM — SCHEMATIC DIAGRAM

SHEET EE1-2

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3597 CONTRACT No.: 06-325514
PROJECT NUMBER & PHASE: 06120000521

DISREGARD PRINTS BEARING EARLIER REVISION DATES → 3-18-14 4-4-14 5-7-14

REVISION DATES (PRELIMINARY STAGE ONLY) SHEET OF

TAEMWW Imperial - CCSC Rev. 01/13

20-NOV-2014 17:13

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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Kin	198	R8.9/R10.1	41A	41

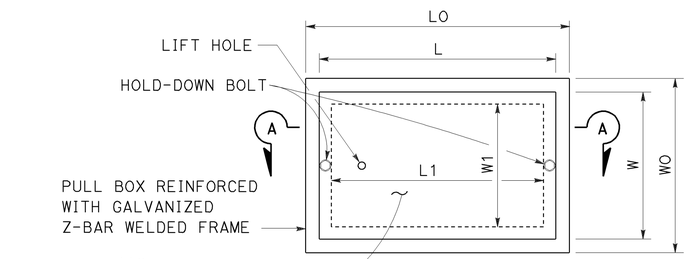
Theresa Gabriel
REGISTERED ELECTRICAL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

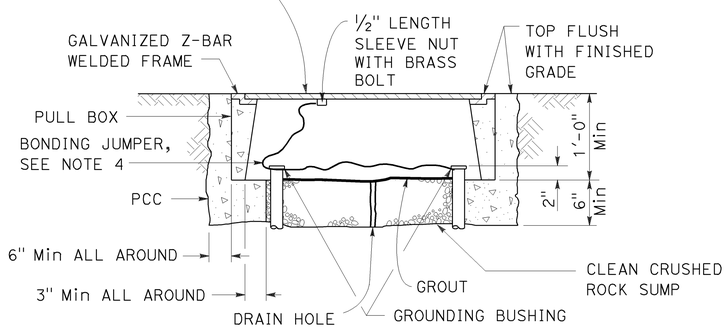
REGISTERED PROFESSIONAL ENGINEER Theresa Aziz Gabriel No. E15129 Exp. 6-30-14 ELECTRICAL STATE OF CALIFORNIA

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.

TO ACCOMPANY PLANS DATED 5-12-14



TOP VIEW



SECTION A-A

No. 3½(T), No. 5(T) AND No. 6(T) TRAFFIC PULL BOX

NOTES:

1. Traffic pull box shall be provided with steel cover and special concrete footing. Steel cover shall have embossed non-skid pattern.
2. Steel reinforcing shall be as regularly used in the standard products of the respective manufacturer.
3. Pull box covers shall be marked as follows: "SERVICE" Service circuits between service point and service disconnect; "SPRINKLER-CONTROL" Sprinkler control circuits, 50 V or less; "CALTRANS" On all pull boxes, except pull boxes marked "SPRINKLER-CONTROL"; and "TELEPHONE" Telephone service.
   - A) No. 3½(T) pull box.
     - 1) "SIGNAL" - Traffic signal circuits with or without lighting or sign lighting circuits.
     - 2) "LIGHTING" - Lighting or sign lighting circuits where voltage is under 600 V.
   - B) No. 5(T) or 6(T) pull box.
     - 1) "TRAFFIC SIGNAL" - Traffic signal circuits with or without lighting or sign lighting circuits.
     - 2) "LIGHTING" - Lighting or sign lighting circuits where voltage is under 600 V.
     - 3) "LIGHTING-HIGH VOLTAGE" - Lighting or sign lighting circuits where voltage is above 600 V.
     - 4) "IRRIGATION" - Circuits to irrigation controller 120 V or more.
     - 5) "RAMP METER" - Ramp meter circuits.
     - 6) "COUNT STATION" - Count or speed monitor circuits.
     - 7) "COMMUNICATION" - Communication circuits.
     - 8) "TOS COMMUNICATIONS" - TOS communications line.
     - 9) "TOS POWER" - TOS power.
     - 10) "TDC POWER" - Telephone demarcation cabinet power.
     - 11) "CCTV" - Closed circuit television circuits.
     - 12) "TMS" - Traffic monitoring station circuits.
     - 13) "CMS" - Changeable message sign circuits.
     - 14) "HAR" - Highway advisory radio circuits.
     - 15) "BOOSTER PUMP" - Booster pump circuit.
4. Bonding jumper for metal covers shall be 3' long, minimum.
5. The nominal dimensions of the opening in which the cover sets shall be the same as the cover dimensions except the length and width dimensions shall be ⅛" greater.
6. Covers and boxes shall be interchangeable with California standard male and female gages. When interchanged with a standard male or female gage, the top surfaces shall be flush within ⅛".

DIMENSION TABLE

PULL BOX	PULL BOX						COVER				
	MINIMUM * THICKNESS	MINIMUM DEPTH BOX AND EXTENSION	WO	LO	L1	W1	L **	W **	R	EDGE THICKNESS	EDGE TAPER
No. 3½(T)	1½"	1'-0"	1'-5"± 1"	1'-8⅞"±	1'-2½"±	10⅝"± 1"	1'-8"±	1'-1¾"±	0"	½"	NONE
No. 5(T)	1¾"	1'-0"	1'-11½"± 1"	2'-5½"±	1'-7"±	1'-1"± 1"	2'-3"±	1'-4"±	0"	½"	NONE
No. 6(T)	2"	1'-0"	2'-6"± 1"	2'-11½"±	1'-11½"±	1'-5"± 1"	2'-9"±	1'-8"±	0"	½"	NONE

* EXCLUDING CONDUIT WEB ** TOP DIMENSION

1 ADDED PER ADDENDUM No. 1 DATED NOVEMBER 24, 2014

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (TRAFFIC PULL BOX)

NO SCALE

RSP ES-8B DATED JULY 19, 2013 SUPERSEDES RSP ES-8B DATED JANUARY 20, 2012 THAT SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-8B

2010 REVISED STANDARD PLAN RSP ES-8B

7-15-13