

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**  
 DESIGN  
 FUNCTIONAL SUPERVISOR  
 NOMER GUTTIEREZ  
 CALCULATED/DESIGNED BY  
 CHECKED BY  
 GABE ELEFANTE  
 RICHARD BOYER  
 REVISED BY  
 DATE REVISED  
 7/16/14  
 G.E.E.  
 07/24/14  
 09/12/14  
 G.E.E.  
 09/22/14  
 10/09/14

### ROADWAY ITEMS

LOCATION	STATION	TACK COAT	COLD PLANE AC PAVEMENT	PEDESTRIAN BARRICADE
		TON	SQYD	EA
SUTTER STREET	0+42.46 TO 2+08.13	0.12		
ROUTE 49	242+26, 35' Lt			1
PARKING LOT	0+33 TO 2+10	0.08		
ROUTE 49	241+13 TO 242+05		31	
PARKING LOT	0+45 TO 2+20		60	
SUTTER STREET	1+48, 15' Rt			1
SUTTER STREET	1+84.13 TO 2+08.13		65	
TOTAL		0.20	156	2

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Amo	49	4.3,4.6	27	84

10-09-14  
 REGISTERED CIVIL ENGINEER DATE  
 10-20-14  
 PLANS APPROVAL DATE

RICHARD J. BOYER  
 No. 75844  
 Exp. 6-30-16  
 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.

### PRE/POST CONSTRUCTION SURVEYS

SHEET No.	LOCATION	CURVE NUMBER	CURB RAMP NUMBER	NUMBER OF SURVEY	DESCRIPTION
				EA	
C-3	SUTTER St		1	2	CURB RAMP
C-2	SUTTER St		2	2	CURB RAMP
C-3	SUTTER St		3	2	CURB RAMP
C-3	SUTTER St		4	2	CURB RAMP
C-2	SUTTER St		5	2	CURB RAMP
C-3	ROUTE 49		6	2	CURB RAMP
C-1	SUTTER St	9		2	DRIVEWAY
C-1	SUTTER St	10		2	DRIVEWAY
TOTAL				16	

### 1 MAINTAINING EXISTING TRAFFIC MANAGEMENT SYSTEM ELEMENTS DURING CONSTRUCTION

PM	DETECTOR TYPE	QUANTITY (EA)	ELEMENT	*L/T	*I/E	DIRECTION/LANE No.
4.25	LOOP	4	SIGNAL	(L)	I	NB LEFT TURN
	LOOP	3	SIGNAL	(L)	I	NB LANE 1
	LOOP	3	SIGNAL	(L)	I	NB LANE 2
	LOOP	1	COUNT	(L)	E	SB LANE 1
	LOOP	1	COUNT	(L)	E	SB LANE 2
	LOOP	1	COUNT	(L)	E	NB LANE 1
	LOOP	1	COUNT	(L)	E	NB LANE 2
	LOOP	4	SIGNAL	(L)	E	SB LEFT TURN
	LOOP	3	SIGNAL	(L)	I	SB LANE 1
	LOOP	3	SIGNAL	(L)	I	SB LANE 2
	LOOP	2	SIGNAL	(L)	I	WB LEFT TURN
	LOOP	3	SIGNAL	(L)	I	WB RIGHT TURN

\*L= LEADING LOOP; T= TRAILLING LOOP; I= INGRESS (THE INBOUND SET OF LOOPS);  
 E= EGRESS (THE OUTBOUND SET OF LOOPS)

NOTE:  
 SIGNAL DETECTORS AT ROUTE 49/88 SOUTH JUNCTION ARE APPROXIMATE.

**1 REPLACED PER ADDENDUM No. 1 DATED MAY 15, 2015**

**SUMMARY OF QUANTITIES Q-2**

### IRRIGATION CONDUIT

SHEET No.	IRRIGATION CONDUIT	LOCATION	STATION	SIDE		WATER SUPPLY LINE	3" SCHEDULE 40 PVC PIPE CONDUIT
				L+	R+	(N)	
		SIZE (INCH)			LF		
C-4	1	ROUTE 49	241+05	X		1"	10
C-4	2	ROUTE 49	241+26	X		1"	43
C-4	3	ROUTE 49	241+51	X		3/4"	29
C-4	4	ROUTE 49	241+69	X		1"	83
C-4	5	ROUTE 49	242+14	X		3/4"	30
TOTAL							195

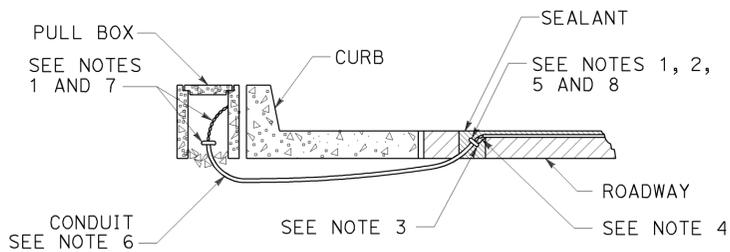
(N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Am	49	4.3,4.6	78A	84

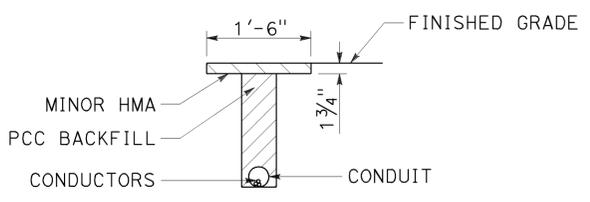
Theresa Gabriel  
 REGISTERED ELECTRICAL ENGINEER  
 July 19, 2013  
 PLANS APPROVAL DATE  
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

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

TO ACCOMPANY PLANS DATED 10-20-14

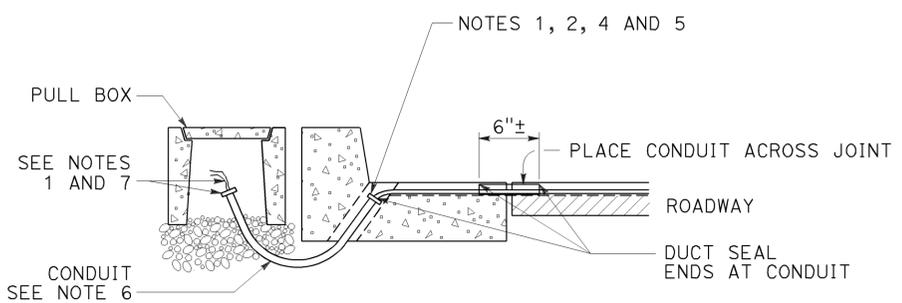


**TYPE A**  
**CURB TERMINATION DETAIL**

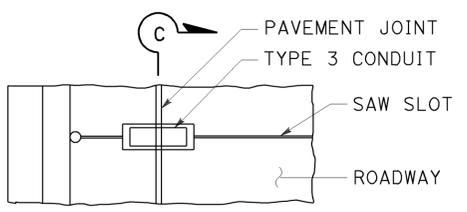


**"T" TRENCH**  
**DETAIL T**

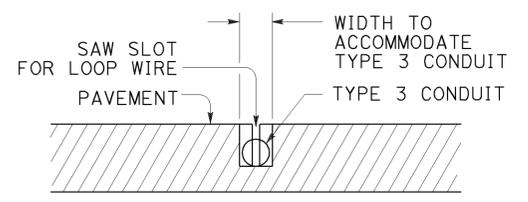
5/16" x 1 1/2" SCREW (BRASS, STAINLESS STEEL OR OTHER NON-CORRODING MATERIAL)



**CROSS SECTION**

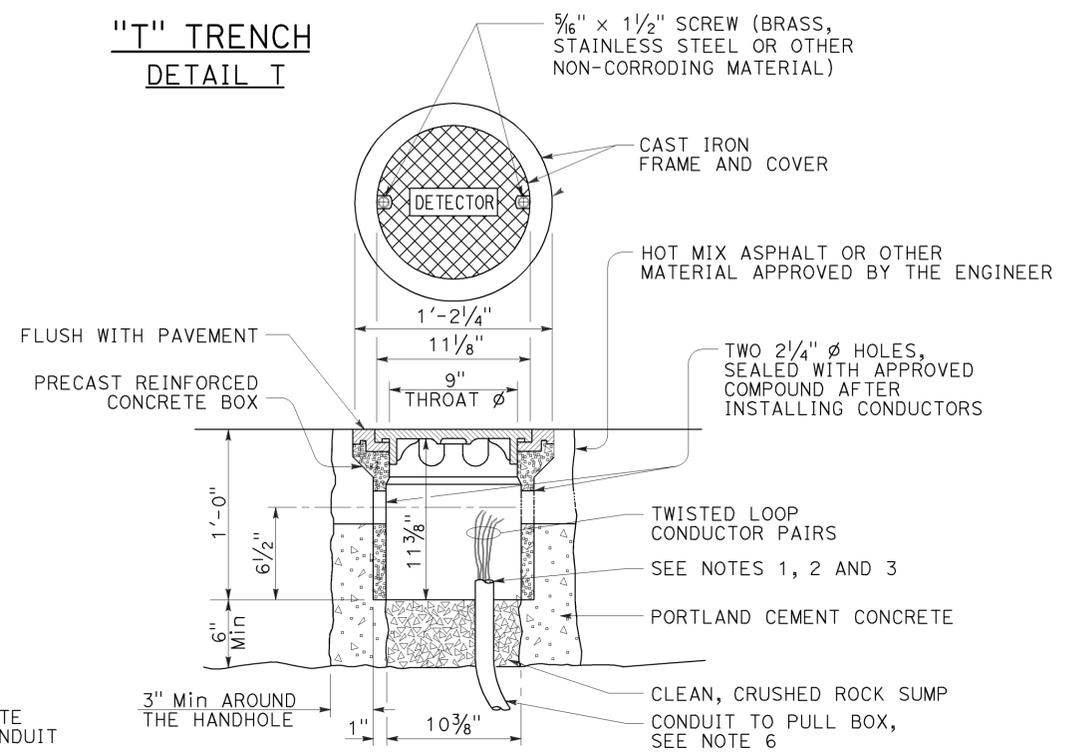


**PLAN VIEW**

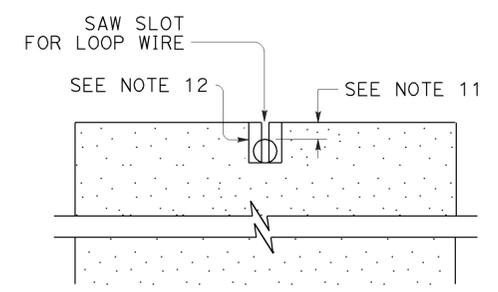


**SECTION C-C**

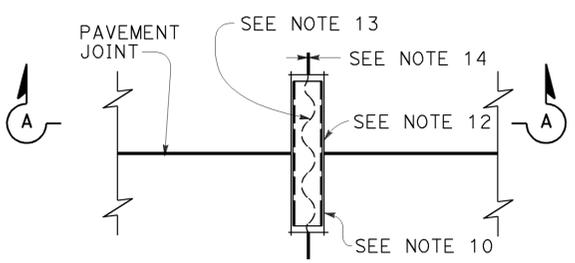
**TYPE B**  
**CURB TERMINATION DETAIL**



**DETECTOR HANDHOLE DETAIL**

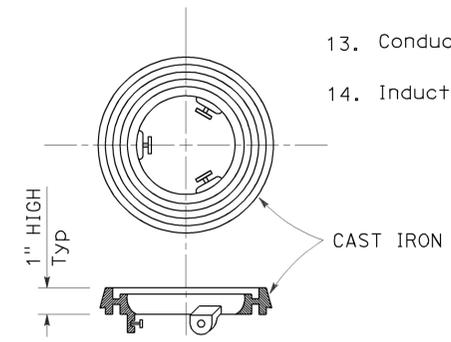


**SECTION A-A**

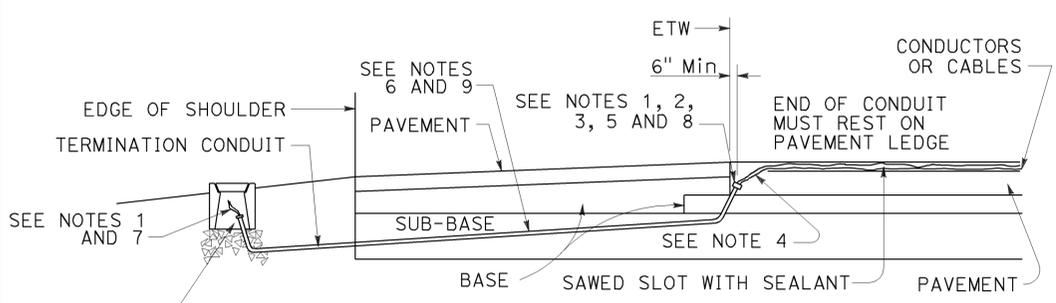


**PLAN VIEW**

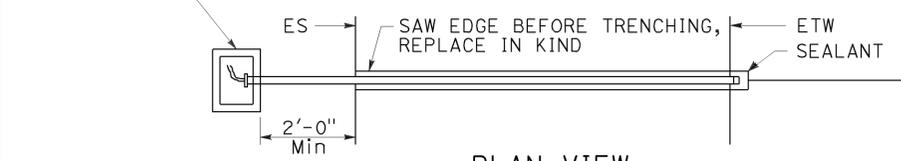
**TYPICAL LOOP LEAD-IN DETAIL**  
**AT PAVEMENT JOINT**



**LOCKING GRADE RING**



**CROSS SECTION**



**PLAN VIEW**

**SHOULDER TERMINATION DETAILS**

**NOTES:**

- Bushing shall be used at end of conduit.
- Tape detector conductors or cables 3" each side of bushings.
- Install duct seal compound to each end of termination conduit before installing sealant.
- Round all sharp edges where detector conductors or cables have to pass.
- End of conduit shall be 3/8" below roadway surface.
- Conduit size      Loop conductors  
 1"C minimum      1 to 2 pairs  
 1 1/2"C minimum      3 to 4 pairs  
 2"C minimum      5 or more pairs
- Splice detector conductors or cables to detector lead-in-cable.
- Location of detector handhole when shown on plans.
- When the shoulder and traveled way are paved with the same material and there is no joint between them, the conduit shall extend only 2'-0" into the shoulder pavement.
- 3/4"C, Type 3 conduit 6" long minimum, plug both ends with duct compound to keep out sealant.
- 1/2" Minimum between top of conduit and pavement surface.
- Sawcut shall not exceed 1" in width and 1/8" longer than conduit to be installed.
- Conductors with 1/2" minimum slack inside conduit.
- Inductive loop detector saw slot.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**ELECTRICAL SYSTEMS**  
**(CURB TERMINATION**  
**AND HANDHOLE)**  
NO SCALE

RSP ES-5D DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN ES-5D DATED MAY 20, 2011 - PAGE 451 OF THE STANDARD PLANS BOOK DATED 2010.

**ADDED PER ADDENDUM No. 1 DATED MAY 15, 2015**

**REVISED STANDARD PLAN RSP ES-5D**

**2010 REVISED STANDARD PLAN RSP ES-5D**