

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** ELECTRICAL DESIGN

REVISOR  
 ZAHRA NIKNAFS  
 STEVEN BLOCK

DESIGNER  
 CALCULATED/DESIGNED BY  
 CHECKED BY

FUNCTIONAL SUPERVISOR  
 STEVEN BLOCK

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Col	20	28.2/30.5	20A	26

Steven Block 8-9-13  
 REGISTERED ELECTRICAL ENGINEER DATE  
 8-13-13  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 STEVEN E. BLOCK  
 No. 14716  
 Exp. 06-30-15  
 ELECTRICAL  
 STATE OF CALIFORNIA

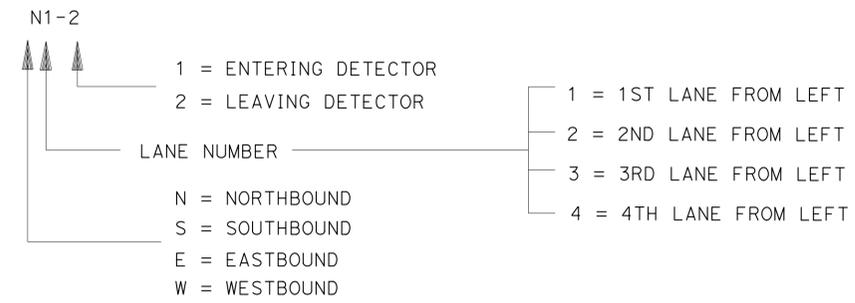
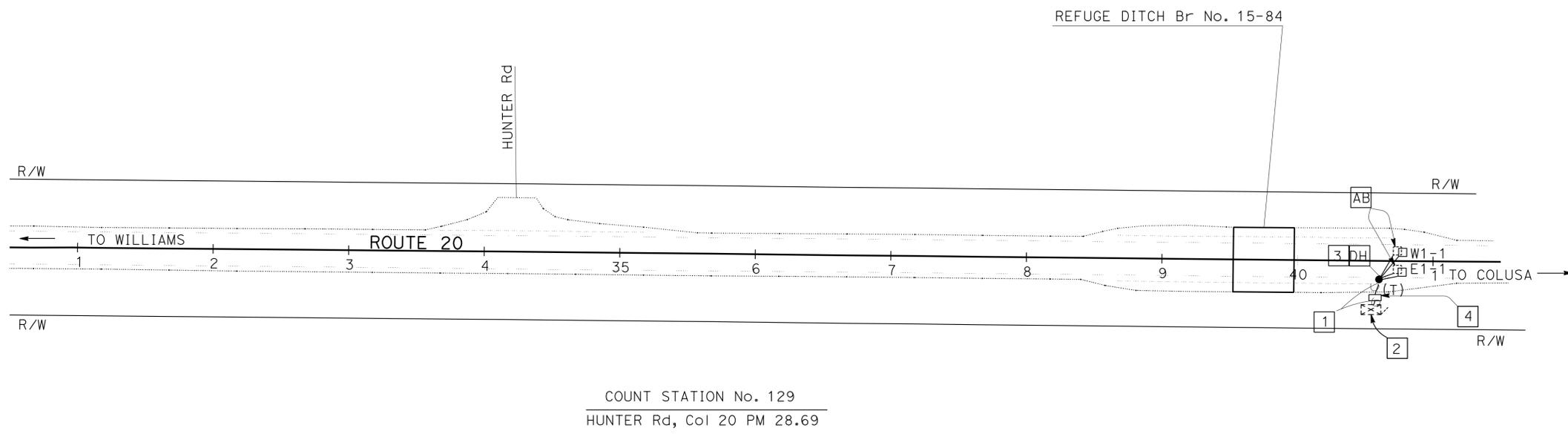
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

**NOTES:**

- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- HAND DIG AREA.

**LEGEND (THIS SHEET ONLY)**

- RC EXISTING LOOP WIRE, INSTALL NEW LOOP WIRE.
- EXISTING TYPE H CONTROLLER CABINET. COIL 4' OF LOOP WIRE IN CABINET. LABEL WIRES AS SHOWN ON PLAN.
- RC dh
- RC pb



**FREEWAY DETECTOR IDENTIFICATION**

**2** ADDED PER ADDENDUM No. 2  
 DATED AUGUST 13, 2013

**MODIFY TRAFFIC MONITORING STATION (COUNT)**

APPROVED FOR ELECTRICAL WORK ONLY

SCALE: 1" = 50'

**E-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans**® ELECTRICAL DESIGN

FUNCTIONAL SUPERVISOR  
 STEVEN BLOCK

CALCULATED, DESIGNED BY  
 CHECKED BY

ZAHRA NIKNAFS  
 STEVEN BLOCK

REVISOR BY  
 DATE

REVISOR BY  
 DATE

REVISOR BY  
 DATE

REVISOR BY  
 DATE

**2**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Col	20	28.2/30.5	20B	26

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**MODIFY TRAFFIC MONITORING STATION (COUNT)**

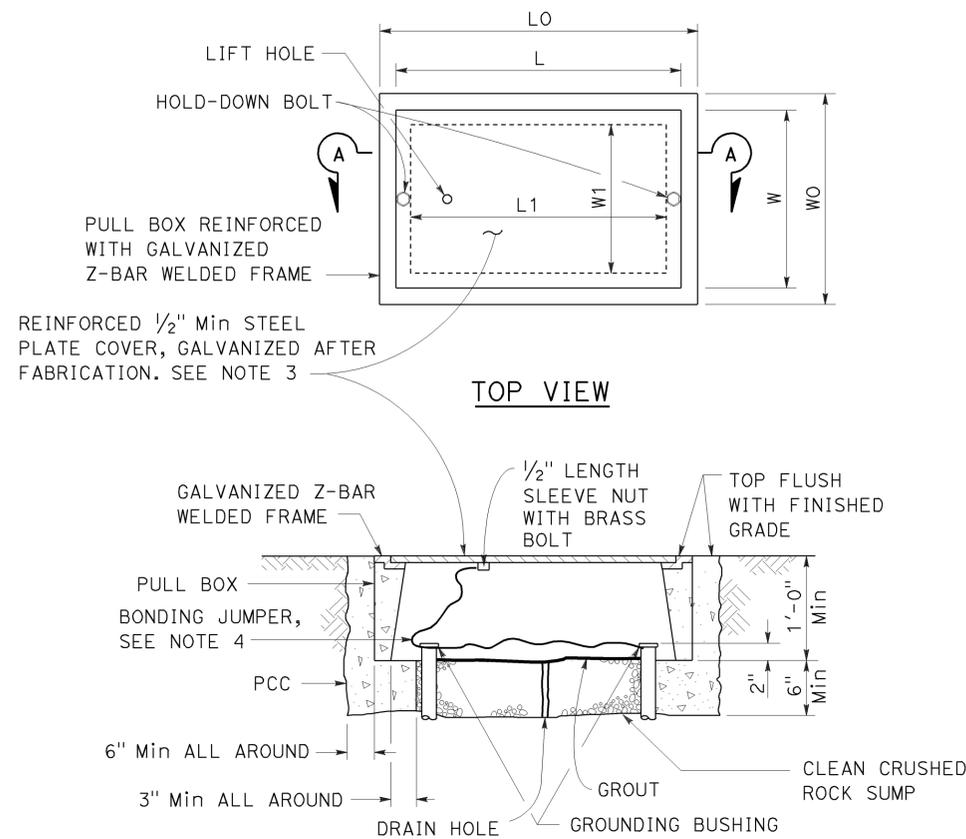
SHEET No.	(N) TYPE A LOOP	(N) DETECTOR HANDHOLE	(N) No. 5 PB TRAFFIC PB
	EA	EA	EA
E-1	2	1	1

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

**2** ADDED PER ADDENDUM No. 2  
 DATED AUGUST 13, 2013

**ELECTRICAL QUANTITIES**

**E-2**



TOP VIEW

SECTION A-A

**No. 3 1/2(T), No. 5(T) AND No. 6(T) TRAFFIC PULL BOX**

TO ACCOMPANY PLANS DATED 8-13-13

**NOTES ON PULL BOXES:**

- Traffic pull box shall be provided with steel cover and special concrete footing. Steel cover shall have embossed non-skid pattern.
- Steel reinforcing shall be as regularly used in the standard products of the respective manufacturer.
- Pull box covers must 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.
  - No. 3 1/2(T) pull box.
    - "SIGNAL" - Traffic signal circuits with or without street or sign lighting circuits.
    - "ST LIGHTING" - Street or sign lighting circuits where voltage is under 600 V.
  - No. 5(T) or 6(T) pull box.
    - "TRAFFIC SIGNAL" - Traffic signal circuits with or without street or sign lighting circuits.
    - "STREET LIGHTING" - Street or sign lighting circuits where voltage is under 600 V.
    - "STREET LIGHTING-HIGH VOLTAGE" - Street or sign lighting circuits where voltage is above 600 V.
    - "IRRIGATION" - Circuits to irrigation controller 120 V or more.
    - "RAMP METER" - Ramp meter circuits.
    - "COUNT STATION" - Count or speed monitor circuits.
    - "COMMUNICATION" - Communication circuits.
    - "TOS COMMUNICATIONS" - TOS communications line.
    - "TOS POWER" - TOS power.
    - "TDC POWER" - Telephone demarcation cabinet power.
    - "CCTV" - Closed circuit television circuits.
    - "TMS" - Traffic monitoring station circuits.
    - "CMS" - Changeable message sign circuits.
    - "HAR" - Highway advisory radio circuits.
- Bonding jumper for metal covers shall be 3' long, minimum.
- The nominal dimensions of the opening in which the cover sets must be the same as the cover dimensions except the length and width dimensions shall be 1/8" greater.
- Covers and boxes must be interchangeable with California standard male and female gages. When interchanged with a standard male or female gage, the top surfaces must be flush within 1/8".

**2 ADDED PER ADDENDUM No. 2 DATED AUGUST 13, 2013**

PULL BOX	BOX						COVER				
	MINIMUM * THICKNESS	MINIMUM DEPTH BOX AND EXTENSION	W0	L0	L1	W1	L **	W **	R	EDGE THICKNESS	EDGE TAPER
No. 3 1/2(T)	1 1/2"	1'-0"	1'-5"± 1"	1'-8 7/8"±	1'-2 1/2"±	10 5/8"± 1"	1'-8"±	1'-1 3/4"±	0"	1/2"	NONE
No. 5(T)	1 3/4"	1'-0"	1'-11 1/2"± 1"	2'-5 1/2"±	1'-7"±	1'-1"± 1"	2'-3"±	1'-4"±	0"	1/2"	NONE
No. 6(T)	2"	1'-0"	2'-6"± 1"	2'-11 1/2"±	1'-11 1/2"±	1'-5"± 1"	2'-9"±	1'-8"±	0"	1/2"	NONE

\* EXCLUDING CONDUIT WEB      \*\* TOP DIMENSION

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**ELECTRICAL SYSTEMS  
 (TRAFFIC RATED PULL BOX)**  
 NO SCALE

RSP ES-8B DATED JANUARY 20, 2012 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.