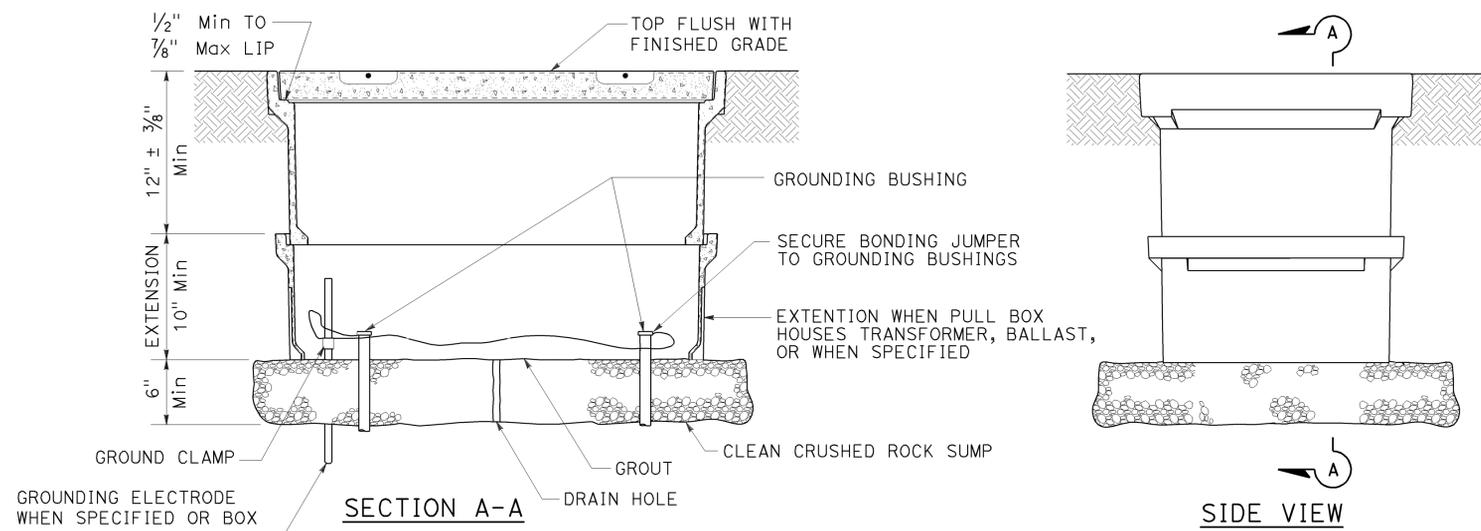


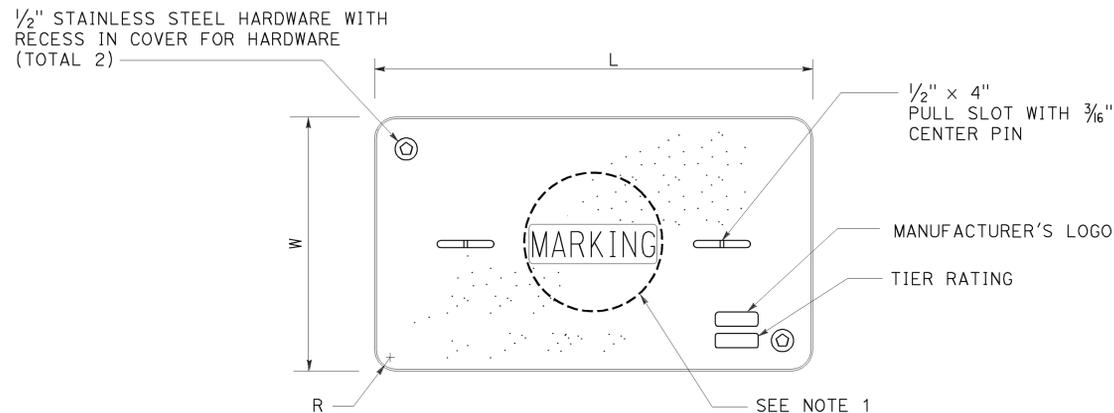
|      |        |                      |                          |           |              |
|------|--------|----------------------|--------------------------|-----------|--------------|
| DIST | COUNTY | ROUTE                | POST MILES TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
| 07   | LA     | 5,10,14<br>60,91,etc | Var                      | 101       | 103          |

Theresa Gabriel  
 REGISTERED ELECTRICAL ENGINEER  
 July 19, 2013  
 PLANS APPROVAL DATE  
 No. E15129  
 Exp. 6-30-14  
 ELECTRICAL  
 STATE OF CALIFORNIA

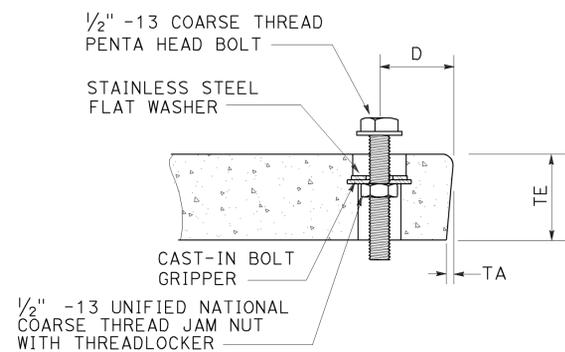
TO ACCOMPANY PLANS DATED 8-11-14



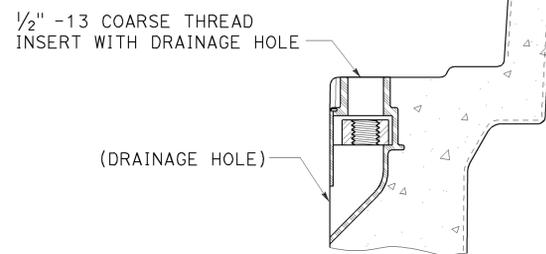
**INSTALLATION DETAILS  
DETAIL A**



**COVER TOP VIEW**



**TYPICAL COVER CAPTIVE BOLT  
OR SIMILAR**



**TYPICAL THREADED INSERT  
OR SIMILAR**

**NOTES:**

- 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;
  - No. 3 1/2 pull box.
    - "SIGNAL" - Traffic signal circuits with or without lighting or sign lighting circuits.
    - "LIGHTING" - Lighting or sign lighting circuits where voltage is under 600 V.
  - No. 5, 6, 9 or 9A pull box.
    - "TRAFFIC SIGNAL" - Traffic signal circuits with or without lighting or sign lighting circuits.
    - "LIGHTING" - Lighting or sign lighting circuits where voltage is under 600 V.
    - "LIGHTING-HIGH VOLTAGE" - Lighting 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.
    - "COMMUNICATIONS" - Communication circuits.
    - "TOS COMMUNICATIONS" - TOS communication 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.
    - "BOOSTER PUMP" - Booster pump circuit.
- 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 1/8" greater.
- 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 1/8". Top outside radius of covers and pull boxes shall have a 1/8" radius.
- Pull box extension may be another pull box as long as the bottom edge of the pull box can fit into the cover opening.
- All dimensions for the cover for non-traffic pull box are nominal values.

| DIMENSION TABLE |                   |                         |                |              |             |        |    |      |        |                |
|-----------------|-------------------|-------------------------|----------------|--------------|-------------|--------|----|------|--------|----------------|
| PULL BOX        | PULL BOX          |                         |                | COVER        |             |        |    |      |        |                |
|                 | MINIMUM DEPTH BOX | MINIMUM DEPTH EXTENSION | MAXIMUM WEIGHT | L            | W           | R      | TE | TA   | D      | MAXIMUM WEIGHT |
| No. 3 1/2       | 12"               | N/A                     | 40 lb          | 1' - 3 3/8"  | 10 1/8"     | 1 3/8" | 2" | 1/8" | 1 3/4" | 30 lb          |
| No. 5           | 12"               | 10"                     | 55 lb          | 1' - 11 1/4" | 1' - 1 3/4" | 1 3/8" | 2" | 1/8" | 1 3/4" | 60 lb          |
| No. 6           | 12"               | 10"                     | 70 lb          | 2' - 6 1/2"  | 1' - 5 1/2" | 1 3/8" | 2" | 1/8" | 2"     | 85 lb          |

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

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

**REVISED STANDARD PLAN RSP ES-8A**

2010 REVISED STANDARD PLAN RSP ES-8A

|      |        |                      |                          |           |              |
|------|--------|----------------------|--------------------------|-----------|--------------|
| DIST | COUNTY | ROUTE                | POST MILES TOTAL PROJECT | SHEET NO. | TOTAL SHEETS |
| 07   | LA     | 5,10,14<br>60,91,etc | Var                      | 102       | 103          |

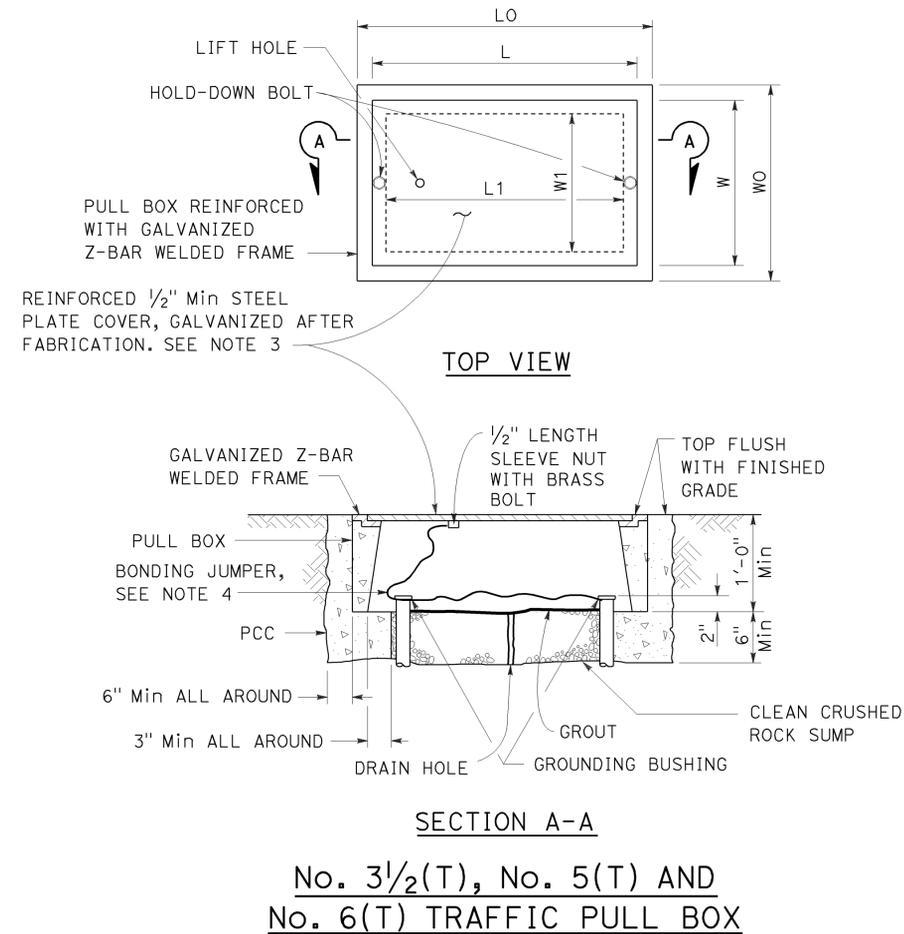
Theresa Gabriel  
REGISTERED ELECTRICAL ENGINEER

July 19, 2013  
PLANS APPROVAL DATE

Theresa Aziz Gabriel  
No. E15129  
Exp. 6-30-14  
ELECTRICAL

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 8-11-14



**NOTES:**

- 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 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.
  - No. 3 1/2(T) pull box.
    - "SIGNAL" - Traffic signal circuits with or without lighting or sign lighting circuits.
    - "LIGHTING" - Lighting 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 lighting or sign lighting circuits.
    - "LIGHTING" - Lighting or sign lighting circuits where voltage is under 600 V.
    - "LIGHTING-HIGH VOLTAGE" - Lighting 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.
    - "BOOSTER PUMP" - Booster pump circuit.
- Bonding jumper for metal covers shall be 3' long, minimum.
- 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 1/8" greater.
- 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 1/8".

| PULL BOX     | PULL 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 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**

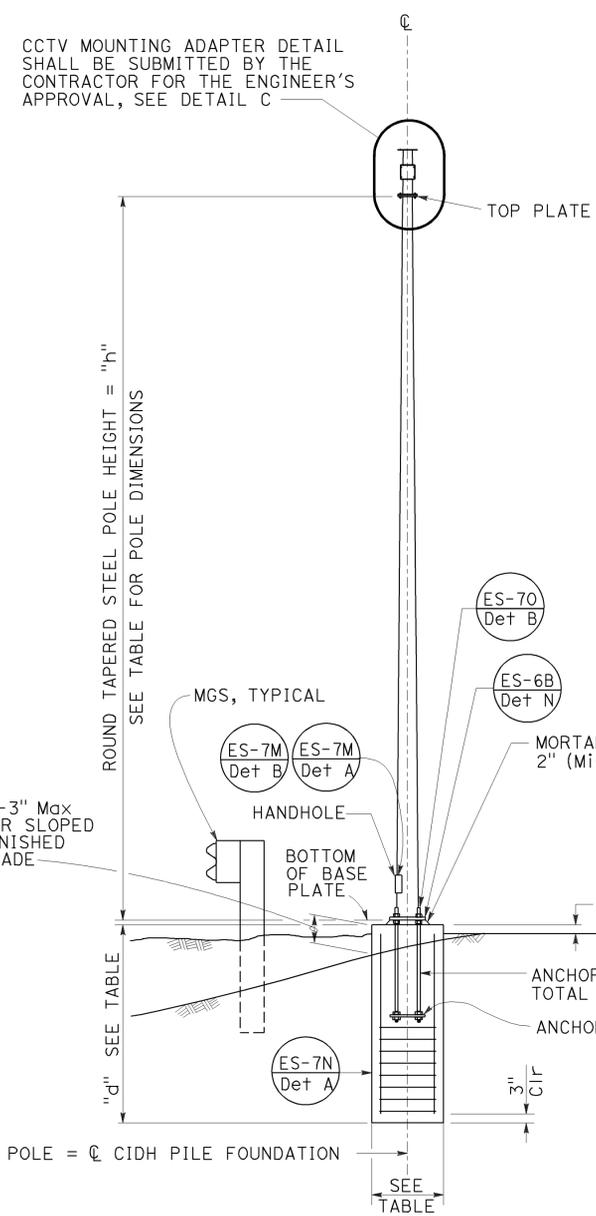
2010 REVISED STANDARD PLAN RSP ES-8B

|      |        |                      |                          |           |              |
|------|--------|----------------------|--------------------------|-----------|--------------|
| Dist | COUNTY | ROUTE                | POST MILES TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 07   | LA     | 5,10,14<br>60,91,etc | Var                      | 103       | 103          |

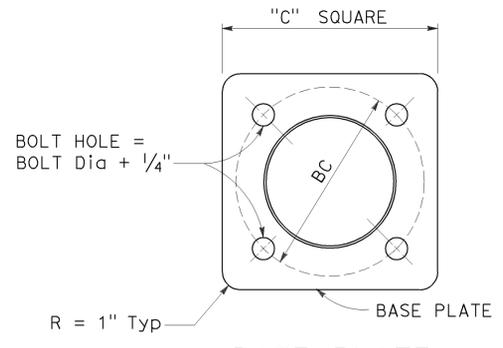
Stanley P. Johnson  
 REGISTERED CIVIL ENGINEER  
 November 15, 2013  
 PLANS APPROVAL DATE  
 No. CS7793  
 Exp. 3-31-14  
 CIVIL  
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

| POLE TYPE | POLE DATA  |        |        |           | BASE PLATE DATA |           |                     |                  | CIDH  |       |
|-----------|------------|--------|--------|-----------|-----------------|-----------|---------------------|------------------|-------|-------|
|           | HEIGHT "h" | Min OD |        | THICKNESS | "c"             | THICKNESS | ANCHOR BOLT SIZE    | BC = BOLT CIRCLE | Dia   | "d"   |
|           |            | BASE   | TOP    |           |                 |           |                     |                  |       |       |
| CCTV 25   | 25'        | 7 3/8" | 3 3/4" | 0.1793"   | 1'-1"           | 1"        | 1 1/2" $\phi$ x 36" | 11 1/2"          | 2'-6" | 7'-0" |
| CCTV 30   | 30'        | 8"     |        |           | 1'-1 1/2"       |           |                     | 1'-0"            |       | 7'-6" |
| CCTV 35   | 35'        | 8 5/8" |        |           | 1'-2"           |           |                     | 1'-1"            |       | 8'-0" |
| CCTV 40   | 40'        | 9 3/8" |        |           | 1'-1 1/2"       |           |                     | 1'-1 1/2"        |       | 8'-0" |
| CCTV 45   | 45'        | 10"    |        |           | 1'-3"           |           |                     | 1'-2"            |       | 8'-6" |

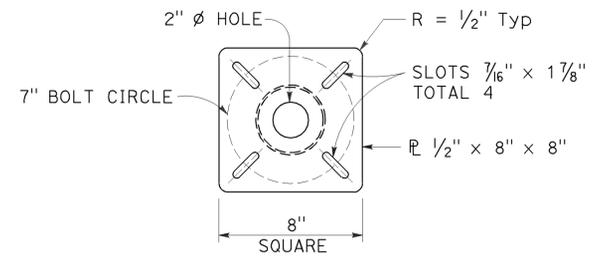
TO ACCOMPANY PLANS DATED 8-11-14



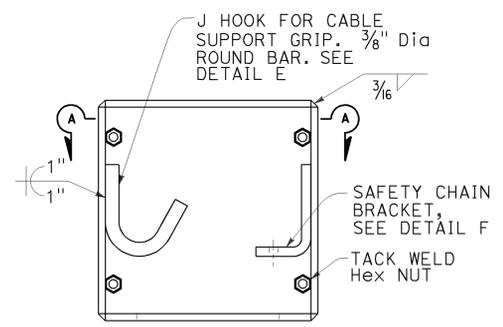
ELEVATION A



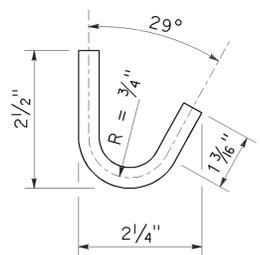
BASE PLATE  
DETAIL A



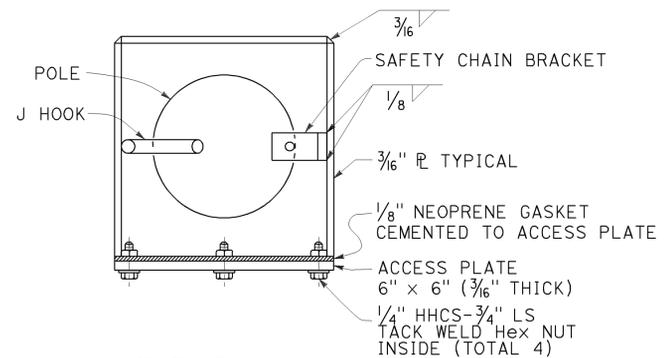
TOP PLATE  
DETAIL B



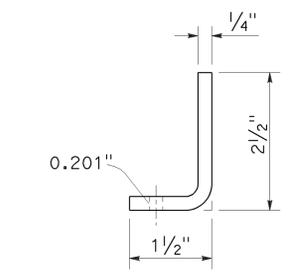
BOX ENCLOSURE  
DETAIL D



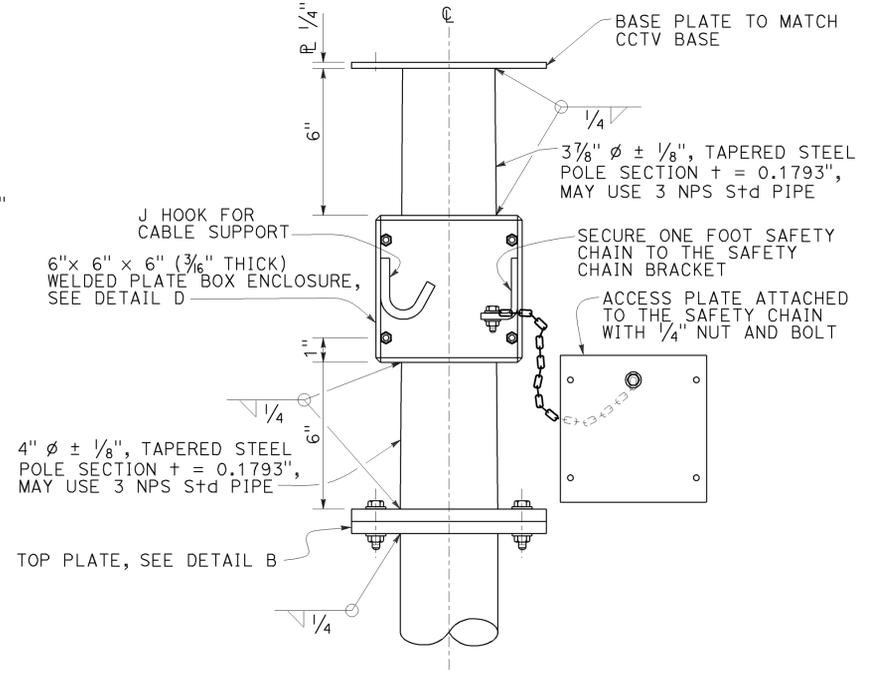
J HOOK  
DETAIL E



SECTION A-A



SAFETY CHAIN BRACKET  
DETAIL F



CLOSED CIRCUIT TELEVISION MOUNTING ADAPTER  
DETAIL C

NOTES:

- The Contractor shall verify controlling field dimensions before ordering or fabricating any material.
- During pole installation, the post shall be raked as necessary with the use of leveling nuts to provide a plumb pole axis.
- Wind Loadings (3-second gust): 100 mph
- Unit Stresses (Structural Steel):
  - fy = 55,000 psi (tapered steel tube and anchor bolts)
  - fy = 50,000 psi (unless otherwise noted)
- Unit Stresses (Reinforced Concrete):
  - f'c = 3,625 psi
  - fy = 60,000 psi

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**ELECTRICAL SYSTEMS  
(CLOSED CIRCUIT TELEVISION,  
25' TO 45' POLE)**

NO SCALE

RSP ES-16B DATED NOVEMBER 15, 2013 SUPERSEDES STANDARD PLAN ES-16B DATED MAY 20, 2011 - PAGE 501 OF THE STANDARD PLANS BOOK DATED 2010.

**REVISED STANDARD PLAN RSP ES-16B**

2010 REVISED STANDARD PLAN RSP ES-16B