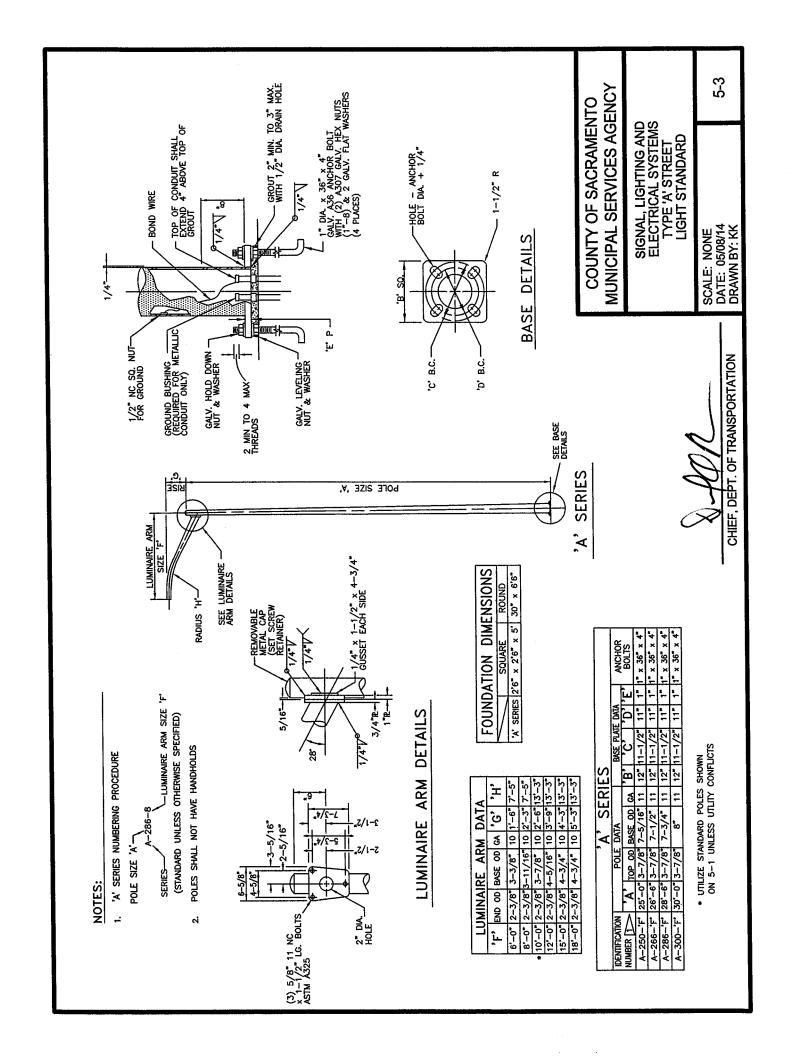
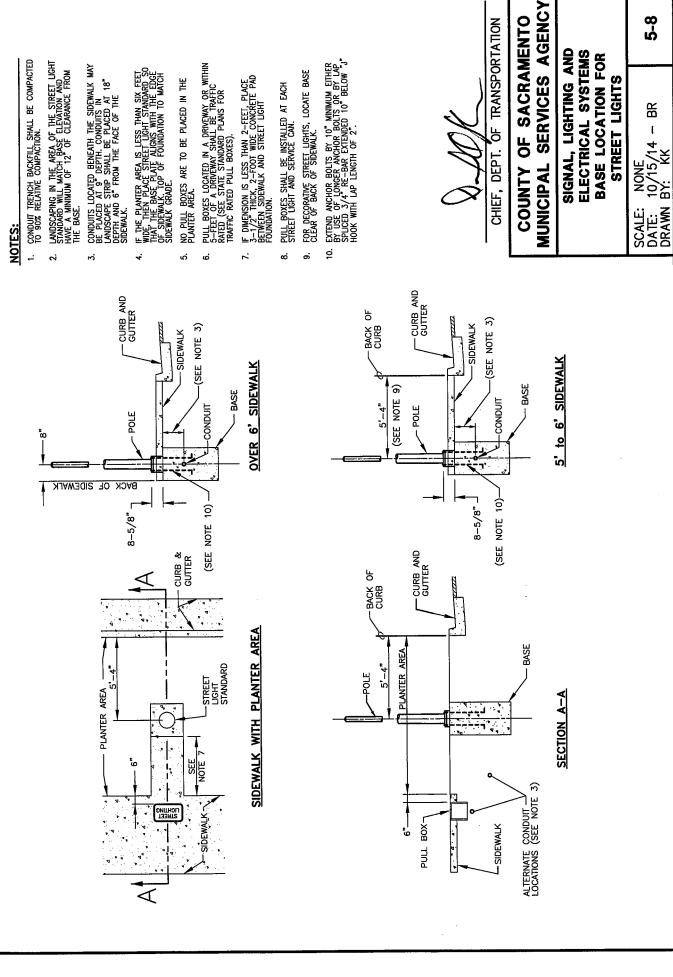
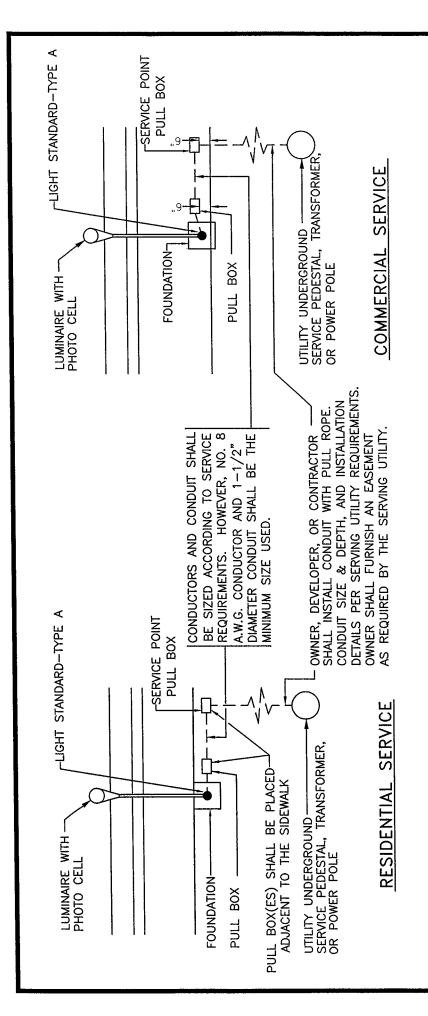
DRAWING NUMBER	TITLE
5-3	SIGNALS, LIGHTING AND ELECTRICAL SYSTEMS TYPE 'A' STREET LIGHT STANDARD
5-8	SIGNALS, LIGHTING AND ELECTRICAL SYSTEMS BASE LOCATION FOR STREET LIGHTS
5-12	SIGNALS, LIGHTING AND ELECTRICAL SYSTEMS DIRECT SERVICE INSTALLATION TO STREET LIGHTING STANDARD
5-13	STREET LIGHT PULL BOX
5-16	SIGNALS, LIGHTING AND ELECTRICAL SYSTEMS TYPE 'B' STREET LIGHT STANDARD
5-20B	SIGNALS, LIGHTING AND ELECTRICAL SYSTEMS TRAFFIC RATED PULL BOX WITH STEEL TRAFFIC COVER
5-24	INDUCTION DETECTORS
5-25	TYPE "B" DETECTOR HANDHOLE DETAIL
5-30	SIGNALS, LIGHTING AND ELECTRICAL SYSTEMS - UNMETERED SERVICE ENCLOSURE (CAN) (120/208V, 120/240V, 277/480V)
5-31	SIGNALS, LIGHTING AND ELECTRICAL SYSTEMS - UNMETERED SERVICE ENCLOSURE (CAN) WITH STEP-DOWN TRANSFORMER (277/480V to 120/240V)
5-32	SIGNALS, LIGHTING AND ELECTRICAL SYSTEMS METERED SERVICE ENCLOSURE (CAN) (120/208V, 120/240V)
5-33	SIGNALS, LIGHTING AND ELECTRICAL SYSTEMS METERED SERVICE ENCLOSURE (CAN) WITH STEP-DOWN TRANSFORMER (277/480V to 120/240V)
5-34	SIGNALS, LIGHTING AND ELECTRICAL SYSTEMS PULL BOX
5-40	TRAFFIC SIGNAL CONTROLLER CABINET & SERVICE CAN WITH BATTERY BACKUP FOUNDATIONS
5-41	METERED SERVICE ENCLOSURE WITH BATTERY BACKUP
5-44	DETECTOR LOOP LOCATION DETAILS







### NOTES:

- ALL COUNTY OWNED FACILITIES SHALL BE WITHIN RIGHT-OF-WAY OR EASEMENT FOR PUBLIC UTILITIES AND PUBLIC FACILITIES.
- SEE STANDARD DRAWING 5-13 FOR SERVICE POINT PULL BOX DETAILS AND WIRING DIAGRAM.
- 3. SEE STANDARD DRAWING 5-34 FOR PULL BOX DETAILS.
- 4. SEE STANDARD DRAWINGS 5-3 FOR STREET LIGHT DETAILS.
- THE SERVING UTILITY WILL INSTALL AND MAINTAIN CONDUCTORS FROM THEIR UNDERGROUND SERVICE PEDESTAL, TRANSFORMER, OR POWER POLE TO THE SERVICE POINT PULL BOX. ĸ,

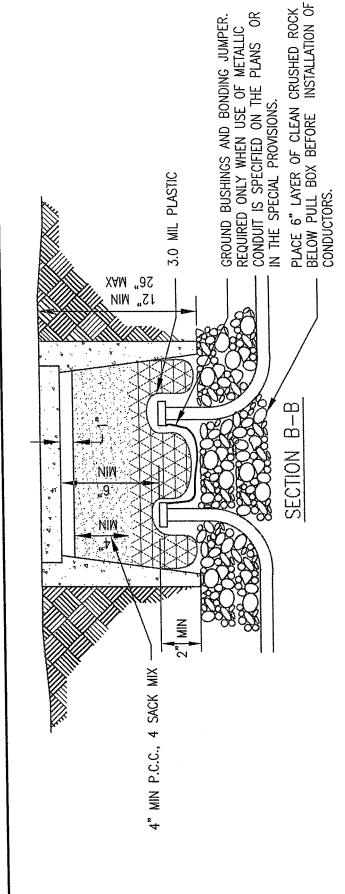
## COUNTY OF SACRAMENTO MUNICIPAL SERVICES AGENCY

SIGNAL, LIGHTING AND ELECTRICAL SYSTEMS DIRECT SERVICE INSTALLATION TO STREET LIGHTING STANDARD

SCALE: NONE DATE: 05/08/14 DRAWN BY: KK

5-12

CHIEF, DEPT. OF TRANSPORTATION



EGEND:

ELECTRICAL WIRING — FILL WITH SAND AFTER PLASTIC AND WIRES ARE IN PLACE.

CONCRETED AREA - 4 SACK CONCRETE MINIMUM 4" THICK.

1. THIS DETAIL IS NOT TO BE USED FOR TRAFFIC SIGNAL PULL BOXES.
2. INSTALL GROUND ROD IN PULL BOX OR POLE BASE CLOSEST TO SERVICE CAN.
3. ORGANIZE AND COMPRESS THE WIRES AT THE BOTTOM OF THE PULL BOX.

NOTES:

COVER WIRES AND CONDUIT OPENINGS WITH 3.0 MIL PLASTIC TO PROTECT

CONDUIT OPENINGS FROM SAND INTRUSION.

FILL WITH SAND AS SHOWN.

. ف ς.

POUR CONCRETE IN THE PULL BOX OVER SAND TO LEVEL 1" BELOW

PULL BOX LID. ALL PULL BOXES SHALL HAVE PROVISIONS FOR LOCKING.

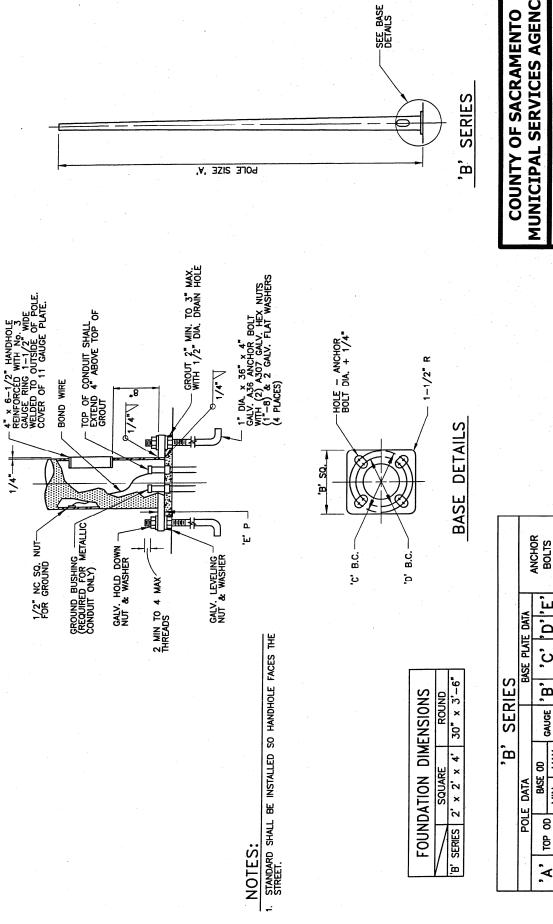
## MUNICIPAL SERVICES AGENCY COUNTY OF SACRAMENTO

PULL BOXES LOCATED IN A DRIVEWAY OR WITHIN 5-FEET OF A DRIVEWAY OR ON THE ROADWAY SHALL BE TRAFFIC RATED.

### STREET LIGHT PUIL BOX 05/08/14 KK SCALE: NONE DATE: 05/08 DRAWN BY: KK

823

CHIEF, DEPT. OF TRANSPORTATION



## **MUNICIPAL SERVICES AGENCY COUNTY OF SACRAMENTO**

TYPE 'B' STREET LIGHT STANDARD SIGNALS, LIGHTING AND ELECTRICAL SYSTEMS

1" 1" × 36" × 4"

10" 9-1/2" 9"

20'-0"2-7/8" 5.61" | 5.85"

10, E,

ပ်

,B

GAUGE 0

BASE OD

TOP 00

, `^

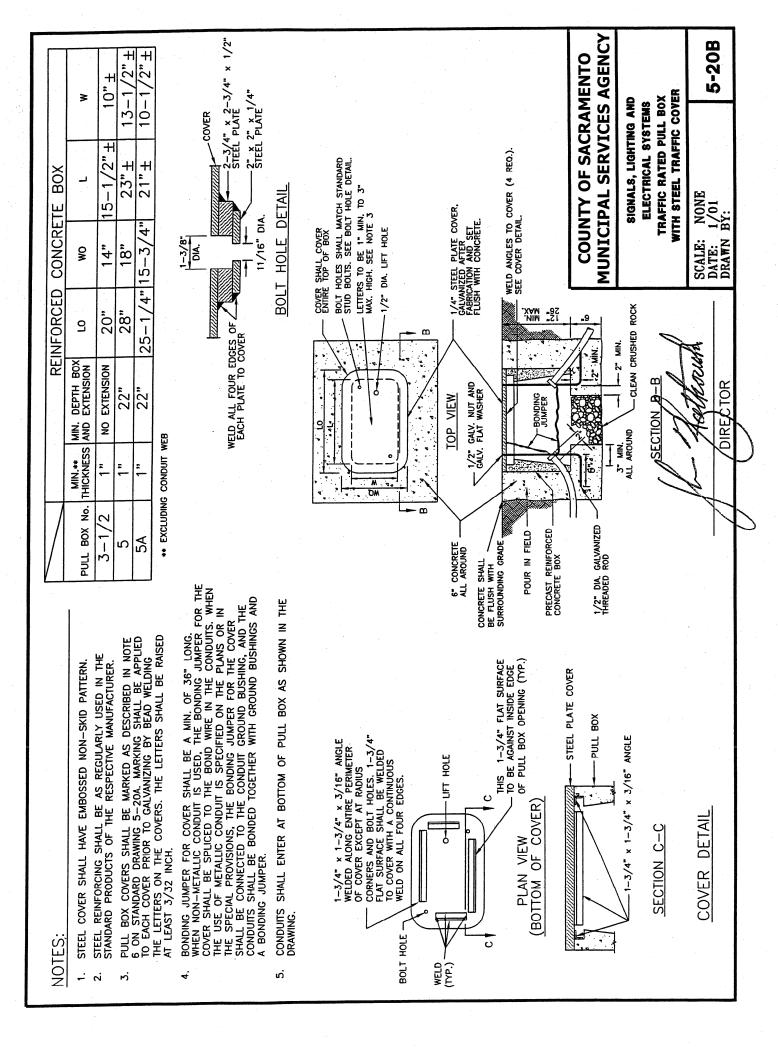
MAX

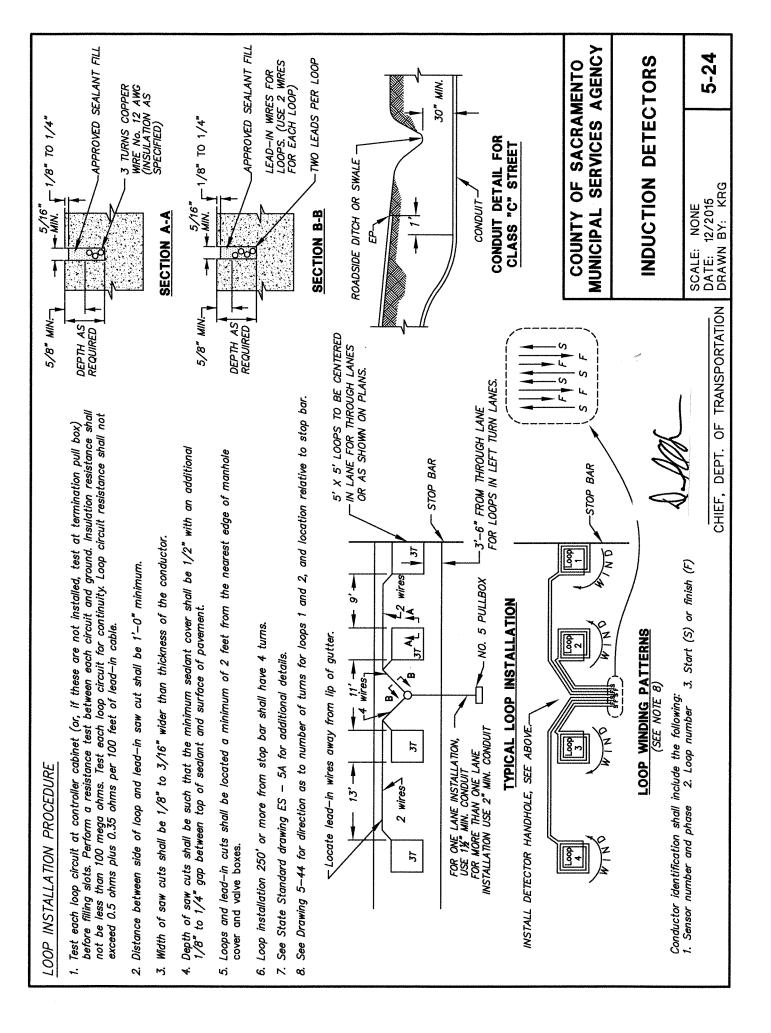
Z

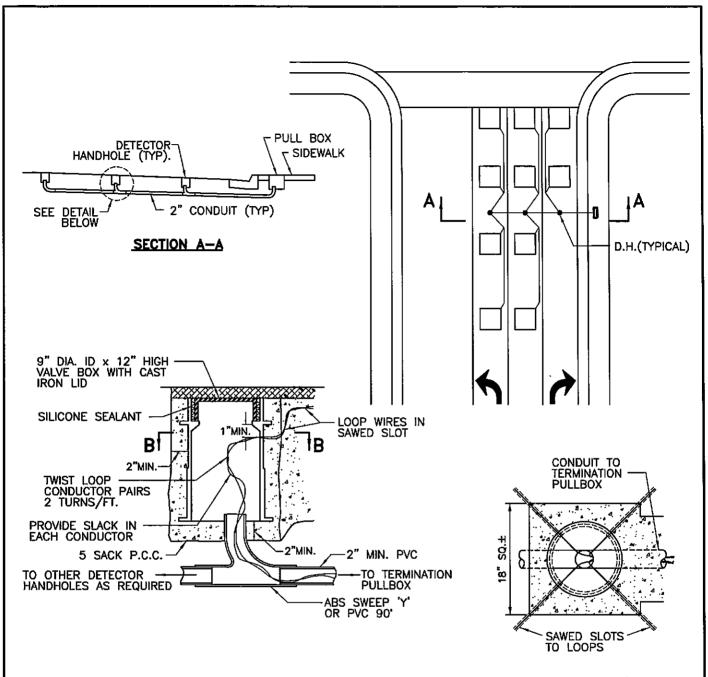
SCALE: NONE DATE: 10/03 DRAWN BY:

TRANSPORTATION

CHIÉF, DEPT. OF







### SECTION B-B

### **INSTALLATION REQUIREMENTS:**

- 18" SQ.± P.C.C. ENCASEMENT OUTLINE SHALL BE SAW CUT TO A MINIMUM DEPTH OF 3", EXCEPT WHERE AC OVERLAY IS TO BE PLACED.
- THE PRECAST VALVE BOX WITH CAST IRON LID SHALL BE FABRICATED OF CALCIUM CARBONATE AND POLYESTER RESINS WITH FIBERGLASS REINFORCING AND DESIGNED FOR HEAVY TRAFFIC LOADS.
- CAST IRON LID SHALL BE MARKED "DETECTOR" AND SHALL BE SECURED IN PLACE BY APPLYING WATERPROOF SILICONE SEALANT. VALVE BOX LOCATION SHALL BE AS SHOWN ON THE PLANS.
- 4. THE EXCAVATION AROUND THE HANDHOLE SHALL BE BACKFILLED WITH 5 SACK P.C.C.

CHIEF, DEPT. OF TRANSPORTATION

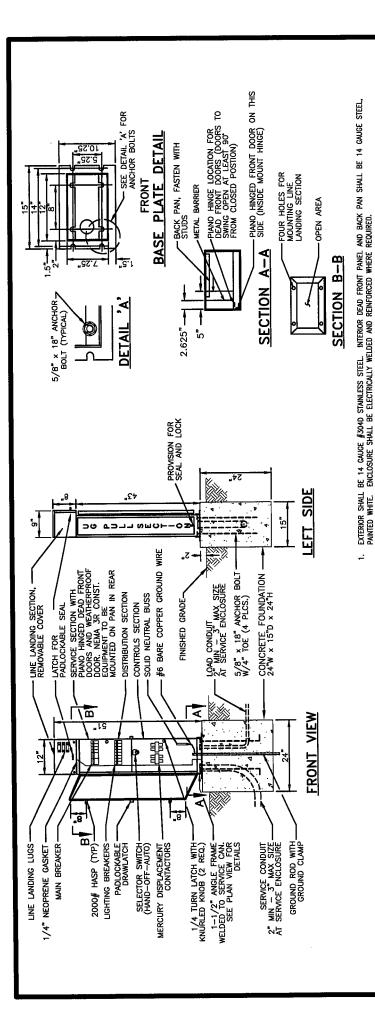
- 5. THE HANDHOLE SHALL BE PROTECTED WITH COLD PATCH OR OTHER SUITABLE PROTECTION UNTIL PERMANENT AC BACKFILL IS PLACED.
- 6. THE CEMENT USED TO JOIN THE ABS SWEEP "Y" TO THE PVC CONDUIT SHALL BE CAPABLE OF PROVIDING A SOLVENT TYPE WELD BETWEEN THE TWO MATERIALS.

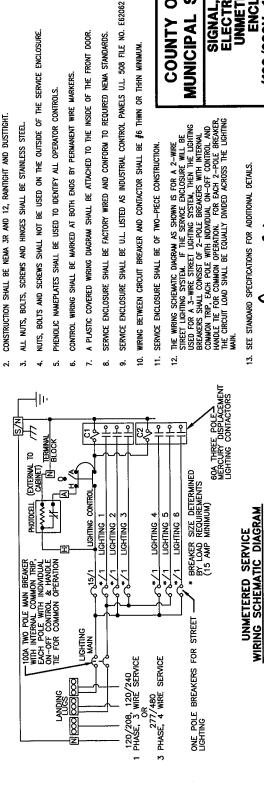
COUNTY OF SACRAMENTO MUNICIPAL SERVICES AGENCY

TYPE "B" DETECTOR HANDHOLE DETAIL

SCALE: NONE DATE: 12/2007

DRAWN BY: COUNTY D.O.T.





# COUNTY OF SACRAMENTO 11. SERVICE ENCLOSURE SHALL BE OF TWO-PIECE CONSTRUCTION

SERVICES AGENCY

MUNICIPAL

SIGNAL, LIGHTING AND ELECTRICAL SYSTEMS UNMETERED SERVICE ENCLOSURE CAN 5/280V, 120/240V, 277/480V)

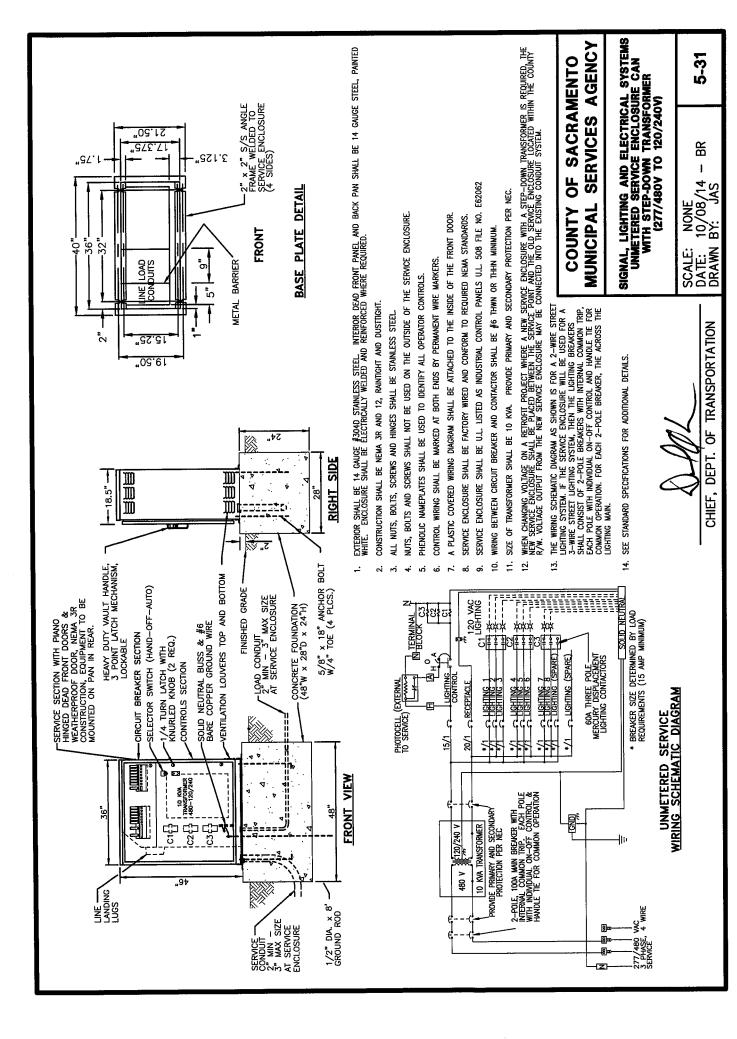
器 1 NONE 10/07/14 -(120/280V, SCALE: NO DATE: 10/ DRAWN BY:

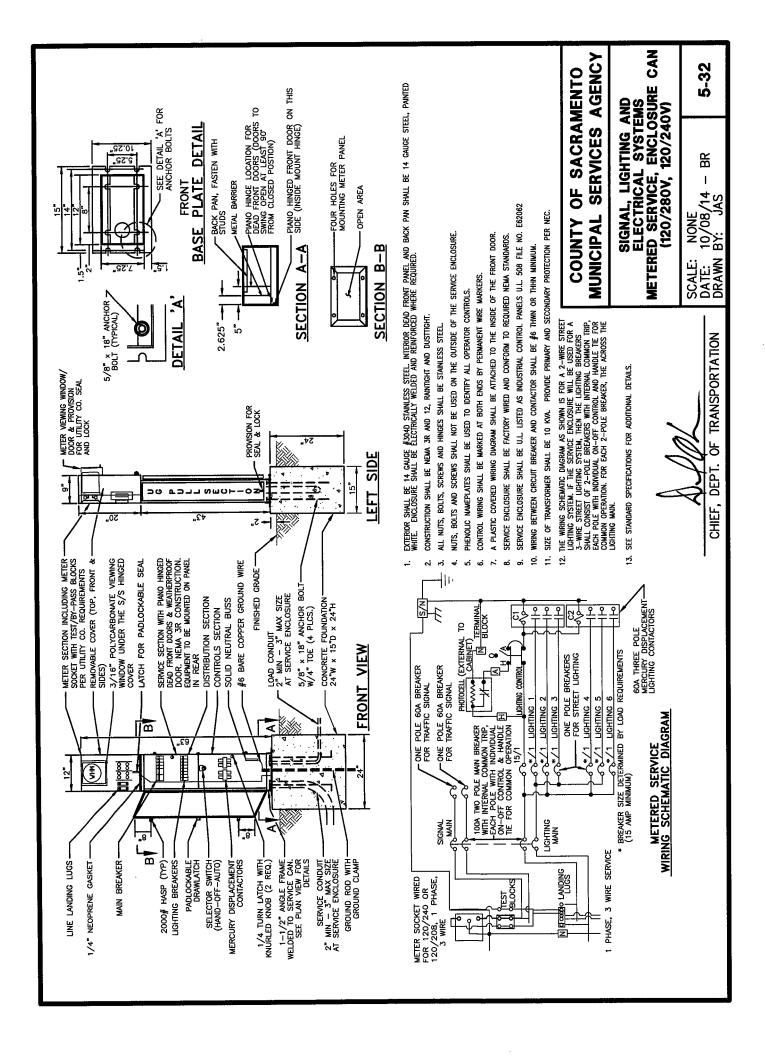
5-30

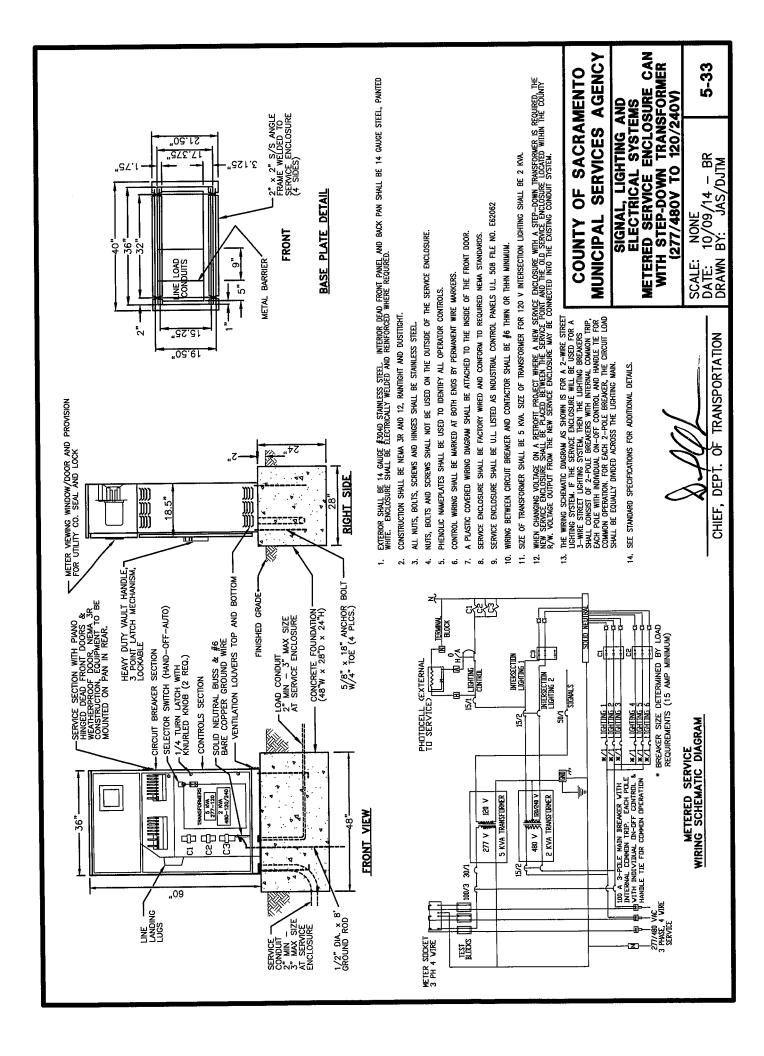
SEE STANDARD SPECIFICATIONS FOR ADDITIONAL DETAILS.

TRANSPORTATION

ģ CHIEF, DEPT.







	RE	REINFORCED CONCRETE BOX	CRETE B	ŏ	COMF	COMPOSITE BOX	REINFOR	CED CON	IC. OR C	REINFORCED CONC. OR COMPOSITE COVER	COVER
PULL BOX No.	MIN.** THICKNESS	PULL BOX No. THICKNESS AND EXTENSION	9	WO	MIN.** MIN. THICKNESS AND I	MIN. DEPTH BOX AND EXTENSION	###]	W***	æ	EDGE	EDGE TAPER
3-1/2	-	NO EXTENSION	20-	14"	5/16"	5/16" NO EXTENSION 15-3/8" 10-1/8" 1-1/8" 1-3/4"	15-3/8"	10-1/8"	1-1/8"	1-3/4"	1/8"
5	-	22"	28"	18"	5/16"	20*	23-1/4"	23-1/4"   13-3/4"   1-1/4"	1-1/4"	2"	1/8"
5A	-	22"	25-1/4" 15-3/4"	15-3/4"	5/16"	20*	20-5/8"	20-5/8" 10-1/2" 1-1/4"	1-1/4"	2"	1/8"
9	1-1/2"	24"	36"	23"	3/8"	20*	30-5/8"	30-5/8" 17-5/8" 1-1/4"	1-1/4"	2.	1/8"

- 1. IN UNIMPROVED AREAS AND PLANTERS, THE TOP OF PULL BOXES SHALL BE PLACED 0.10 FOOT ABOVE THE SURROUNDING GRADE OR, WHEN ADJACENT TO A CURB, FLUSH WITH THE TOP OF THE CURB. THE SURROUNDING GRADE SHALL BE EAMINED UP TO MATCH THE TOP OF THE CONCRETE COLLAR, UNLESS ORTHERWISE NOTED, AND WHERE PRACTICAL, PULL BOXES SHOWN IN THE VICINITY OF CURBS SHALL BE PLACED ADJACENT TO THE BACK OF CURB, AND PULL BOXES SHOWN ADJACENT TO STANDARDS SHALL BE PLACED ON THE SIDE OF THE FOUNDATION FACING AMAY
  - IN SIDEWALK AREAS, THE TOP OF PULL BOXES SHALL BE PLACED FLUSH WITH THE SIDEWALK GRADE.
- PLACEMENT OF PULL BOXES IN AREAS SUBJECT TO VEHICULAR TRAFFIC LOADS (INCLUDES TRAFFIC LANES, BING LANES, SHOULDERS, AND DRIVEWAYS) SHALL BE ANDIDD WHENEVER POSSIBLE. IF UNANODABLE, THEN A TRAFFIC RATED PULL BOX WITH STEEL TRAFFIC COVER SHALL BE USED. SEE STÂTE STANDARD PLANS.
- PULL BOXES SHALL NOT BE PLACED WITHIN THE BOUNDARIES OF SIDEWALK RAMPS.
- 5. PULL BOXES SHOULD NOT BE PLACED WITHIN PLANTER AREAS WHENEVER POSSIBLE.

- 6. PULL BOX COVERS SHALL BE MARKED AS FOLLOWS:

  1) "TRAFFIC SIGNAL CIRCUITS WITH OR WITHOUT STREET
  LIGHTING CIRCUITS.

  2) "STREET LIGHTING" STREET LIGHTING CIRCUITS WHERE NO
  VOLTAGE IS ABOVE BOOV.

  3) "STREET LIGHTING—HIGH VOLTAGE" STREET LIGHTING CIRCUITS
  WHERE VOLTAGE IS ABOVE BOOV.

  4) "SERVICE" SERVICE CIRCUITS BETWEEN SERVICE POINT AND SERVICE DISCONNECT.

  5) "SPRINKLER" SERVICE CIRCUITS BETWEEN SERVICE POINT AND SERVICE OF STRINGLER CIRCUITS.

  6) "IRRAFIONE" STRAITON" COUNTROL "SPRINKLER CIRCUITS.

  7) "RAMP MEITE" RAMP MEITER CIRCUITS.

  8) "COUNT STATION" COUNT AND/OR SPRED MONITOR CIRCUITS.

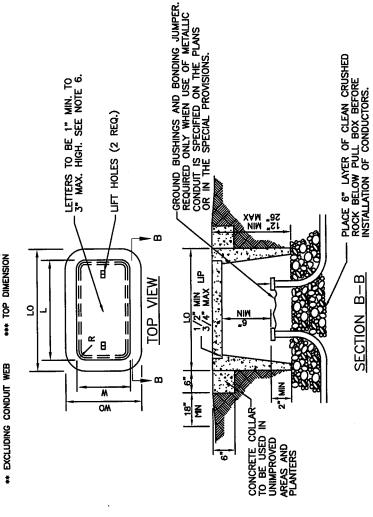
  9) "COMMINICATION" COMMINICATION CIRCUITS.

  10) "TELEPHONE" TELPHONE SERVICE.

  11) "TOS COMMUNICATIONS" TOS COMMUNICATIONS TRUNK LINE.

  12) "TOS POWER" TELPHONE DEMARCATION CABINET POWER.

- 7. COVERS SHAL FIT FLUSH WITH THE TOP OF PULL BOXES. THERE SHALL BE 1/8" MAXIMUM CLEARANCE ALL AROUND BETWEEN COVERS AND PULL BOX OPENINGS.
- ALL COVERS AND BOXES SHALL BE INTERCHANGEABLE WITH CALIFORNIA STANDARD MALE AND FEMALE GAUGES. WHEN INTERCHANGED WITH A STANDARD MALE OR FEMALE GAUGE, THE TOP SURFACES SHALL BE FLUSH WITHIN 1/8 INCH.
  - The top edges of all concrete covers and pull boxes shall have a 1/4" min. Radius.
- 10. STACKING OF PULL BOXES IS PERMITTED (TWO PULL BOXES MAXIMUM).
- STEEL REINFORCING SHALL BE AS REGULARLY USED IN THE STANDARD PRODUCTS OF THE RESPECTIVE MANUFACTURER.
  - refer to state standard plans and specifications for use of electrical vaults and traffic rated pull boxes. 2
    - 13. REFER TO STANDARD DRAWING 5—13 FOR STREET LIGHT PULL BOXES.
- 14. WHEN INSTALLING INTERCONNECT CONDUCTORS, THE CONDUCTORS SHALL BE SEALED USING THE PROCEDURE SPECIFIED ON STANDARD DRAWING 5-13.
- IF BLECTRICAL VAULT IS REQUIRED FOR INSTALLATION, IT SHALL BE A CHRISTY CONCRETE P48 BOX OR EQUIVALENT. ī,

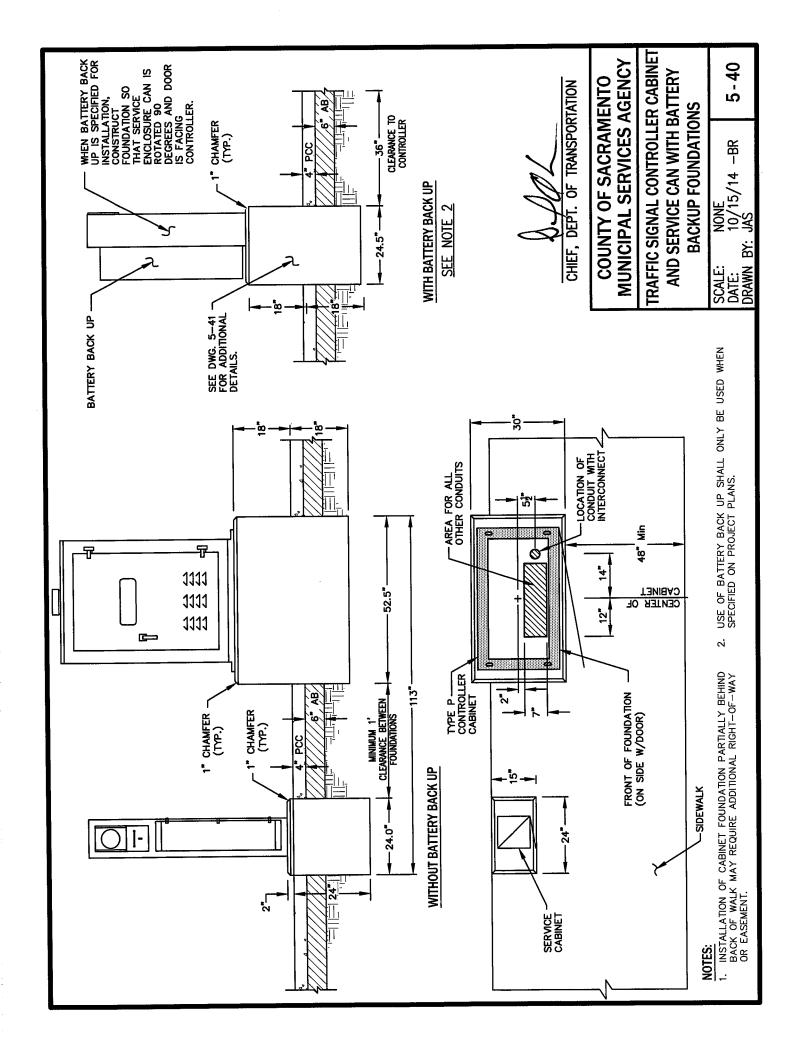


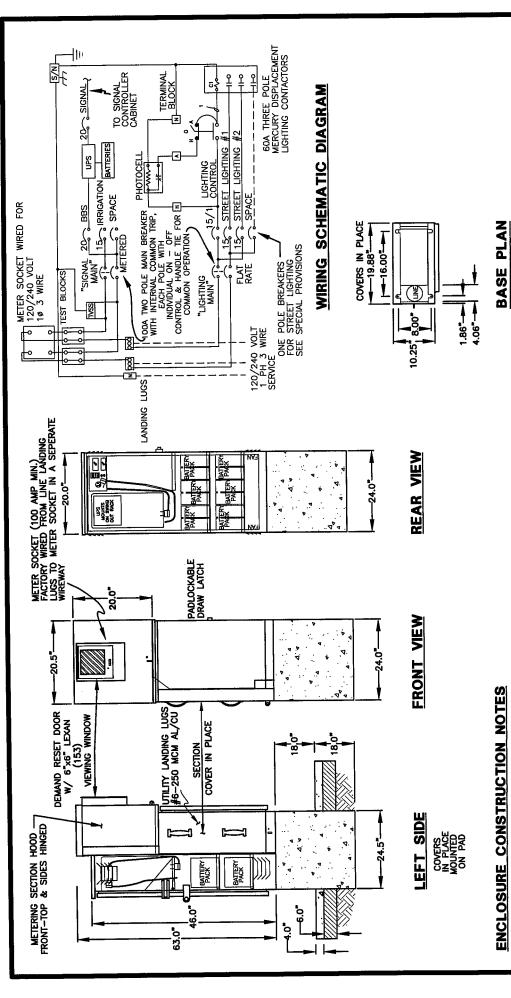
## SERVICES AGENCY COUNTY OF SACRAMENTO MUNICIPAL

SIGNAL, LIGHTING AND ELECTRICAL SYSTEMS PULL BOX

R i DATE: 10/29/14 DRAWN BY: KK SCALE:

CHIEF, DEPT. OF TRANSPORTATION





### SERVICES AGENCY OF SACRAMENTO COUNTY MUNICIPAL

# METERED SERVICE ENCLOSURE WITH BATTERY BACKUP (120/240V)

ı NONE 10/09/2014 -BY: JAS SCALE: DATE: DRAWN I

CHIEF, DEPT. OF TRANSPORTATION

A PLASTIC COVERED WIRING DIAGRAM WILL BE ATTACHED TO THE INSIDE OF THE FRONT DOOR. ENCLOSURE WILL BE FACTORY WIRED AND CONFORM TO REQUIRED NEMA

MARKERS.

က် တဲ

۲.

ANODIZE AFTER FABRICATION.

STANDARDS.

ထံ

ENCLOSURE. NAMEPLATES WILL BE PROVIDED AS REQUIRED. CONTROL WIRING WILL BE MARKED AT BOTH ENDS BY PERMANENT WIRE

ALL NUTS, BOLTS AND SCREWS WILL BE STAINLESS STEEL. NUTS, BOLTS & SCREWS WILL NOT BE VISIBLE FROM OUTSIDE OF

9 K 4

EXTERIOR, 1/8" ALUMINUM, AND INTERIOR 14 GA COLD ROLLED STEEL

ELECTRICALLY WELDED AND REINFORCED WHERE REQUIRED.

CONSTRUCTION WILL BE NEMA 3R, RAINTIGHT.

5-41

器

