NOTES


2. STREET LIGHT POLE FOUNDATIONS, BOLTS, AND REINFORCEMENT CAGES SHALL BE PER OCT 30, 2015 CALTRANS STANDARD PLANS AND SPECIFICATIONS DRAWING ES-7N. CAGES DO NOT REQUIRE WELDING.

3. STREET LIGHT LOCATIONS SHALL BE SHOWN ON IMPROVEMENT PLANS, POLE SPACING SHALL BE PROVIDED BY CITY OF NAPA ELECTRICAL DIVISION.

4. DEVELOPER SHALL CONTACT &E TO ESTABLISH STREET LIGHT SERVICE LOCATIONS, THEN PROVIDE CITY OF NAPA PUBLIC WORKS DEPARTMENT WITH SAME LOCATIONS, IN ACCORDANCE WITH THE LS2A RATE SCHEDULE.

5. LED FIXTURE SIZE MAY BE INCREASED ON COLLECTOR AND ARTERIAL STREETS OR AS OTHER WISE DETERMINED BY THE CITY OF NAPA ELECTRICAL DIVISION.

6. STREET LIGHT FIXTURE SHALL BE 120 VOLT LED CREE COBRA HEAD WITH TWIST LOCK PHOTO ELECTRIC CONTROL RECEPTACLE ON TOP. REFER TO IMPROVEMENT PLANS FOR SIZE.

7. PHOTO ELECTRIC CONTROL SHALL BE FISHER-PIERCE ELL-124.

8. STREET LIGHT WIRE FROM PULL BOX TO FIXTURE SHALL BE #10 THHN SOLID OR #10 THW STRANDED (TS) WIRE.

9. ALL FIELD WIRING SHALL BE #8 THHN OR THW STRANDED.

10. BOND WIRE SHALL BE CONNECTED TO ALL POLES AND GROUND RODS IN THE SYSTEM.

11. INSTALL 1/2" x 8’ COPPER CLAD GROUND ROD IN CENTER OF EACH FOUNDATION.

12. THERE SHALL BE NO SPLICES IN POLE BASE.

13. ALL CONDUITS SHALL BE 24' DEEP IN THE CLEAR FROM FINISH GRADE, 2" SAND BED, 12” MINIMUM SAND COVER.

14. PULL BOXES SHALL BE PLACED NEXT TO EACH STREET LIGHT AND AT PG&E SECONDARY BOX Locations THAT FEED STREET LIGHTS; ADDITIONAL PULL BOXES SHALL BE INSTALLED IN CONDUIT RUNS EXCEEDING 200' OR AS OTHERWISE DIRECTED BY THE ENGINEER. BOX LIDS SHALL BE MARKED “STREET LIGHTING” AND SHALL HAVE HOLD DOWN BOLTS.

15. IN UNDEVELOPED AREAS CONSTRUCT A 30’X30” CONC. PAD (4” THICK). IF A ROUND FOOTING IS Poured, STOP AT THE ELEVATION OF THE BOTTOM OF THE SIDEWALK.

16. DUE TO POSSIBLE CONFLICTING UTILITIES, STREET LIGHTS ARE SUBJECT TO RELOCATION WITH CITY OF NAPA ELECTRICAL DIVISION APPROVAL.

17. COBRA HEAD MODEL NUMBERS SHALL BE LISTED ON THE IMPROVEMENT PLANS.

18. IT IS THE RESPONSIBILITY OF THE DEVELOPER OR THEIR REPRESENTATIVE TO CONTACT THE MANUFACTURER FOR THE LATEST MODEL NUMBERS/TYPES.

19. THE CONTRACTOR SHALL BE RESPONSIBLE TO CALL U.S.A (811) AT LEAST 2 WORKING DAYS PRIOR TO ANY EARTHWORK.

20. CONTACT CITY OF NAPA ELECTRICAL DIVISION AT (707) 257-9588 FOR INSPECTION 24 HOURS PRIOR TO POURING CONCRETE AND/OR BACKFILLING CONDUIT. CONTACT CITY OF NAPA ELECTRICAL DIVISION FOR FINAL INSPECTION AND TURN-ON.

21. ALL CONDUIT SHALL BE SEALED WITH APPROVED DUCT SEAL. CONDUITS FOR FUTURE EXTENSIONS SHALL BE CAPPED WITH CONDUIT PLUGS.
CITY OF NAPA
PUBLIC WORKS DEPARTMENT

CALTRANS STANDARD PLAN ES-7N
ELECTRICAL SYSTEMS

DRAWN BY: BRL
DATE: 06/2018
CHECKED BY: SEC
APPROVED BY: JRL
SCALE: NONE
FIELD NOTES:

2015 REVISED STANDARD PLAN RSP ES-7N

DRAWN BY:
DATE:
SCALE:
FIELD NOTES:

CHECKED BY:
APPROVED BY:
DRAWING NO.

CALTRANS STANDARD PLAN ES-7N
ELECTRICAL SYSTEMS

G:\PubWrks\Standard Details - Electrical Updated Standard Plans DWG\View E-4 Caltrans ES-7N.dwg
NOTES

1. REFER TO THE CITY OF NAPA DOWNTOWN SPECIFIC PLAN FOR APPROVED LOCATIONS OF THIS STANDARD STREET LIGHT. ALL OTHER STREET LIGHTS TO BE USED OUTSIDE THE DOWNTOWN SPECIFIC PLAN AREA SHALL CONFORM TO CITY STANDARD DRAWING E-1.

2. FOOTING SHALL BE 24" DIAMETER BY 3' DEEP CONCRETE. TOP OF FOOTING SHALL BE Flush WITH SIDEWALK.

3. ACCESS DOOR SECURED TO BASE WITH TAMPER PROOF HEX SOCKET SECURITY MACHINE SCREWS.

4. ACCESS DOOR SHALL BE POSITIONED AWAY FROM STREET.

5. BOLTS SHALL BE 5/8" x 18" x 3" GALVANIZED STREET LIGHT BOLTS WITH 11" BOLT CIRCLE

6. POLE SHALL ADHERE TO SHAKESPEARE CS - CORAL GABLES 12' FLAT BLACK SPEC ANCHOR PLACE AND TENON. SPECIFICATION NO: ACG20-12AF1103

7. LED SHALL ADHERE TO LIGHT EFFICIENT DESIGN STANDARDS FOR LED-8029

8. GLOBE AND ASSEMBLY SHALL BE ELA COMPANY INC. GLOBE AND ASSEMBLY SHALL BE AN ACORN GLOBE WITH 9" OPENING, MEDIUM BASE PORCELAIN SOCKET WITH 1.5" x 1/8-27#4066, 120V BUTTON PHOTOCELL, CAST BALLAST HOUSING FITTER INCANDESCENT, MEDIUM BASE, ACRYLIC DIFFUSER AND STIPPLED. GLOBE ASSEMBLY TO BE APPROVED BY CITY OF NAPA STAFF.
SECONDARY BOX SERVICE INSTALLATION

INSTALL NO. 3 1/2 PULL BOX WITH 1/2"X8' COPPER CLAD GROUND ROD. INSTALL FUSE HOLDER WITH 30 AMP FUSE. EXTEND CONDUIT AND SERVICE WIRES (EXCEPT GROUND WIRE) TO PG&E SECONDARY BOX.

SECONDARY BOX SERVICE INSTALLATION

A 13"[WIDTH]X 24"[LENGTH]X 26"[DEPTH] SPLICE BOX IS REQUIRED WITH A 2° 90 DEGREE SCHEDULE 40 PVC CONDUIT BEND ON A 24" RADIUS FROM THE BOX TO THE POWER POLE. THE CONDUIT SHALL EXTEND NO MORE THAN 1/2" INSIDE THE BOX. INSTALL 1/2"X8' COPPER CLAD GROUND ROD IN THE FARTHEST CORNER OF THE PULL BOX AWAY FROM THE WOOD POLE. INSTALL FUSE HOLDER WITH 30 AMP FUSE. PG&E WILL PROVIDE THE WIRES DOWN THE POLE TO THE BOX AND CONNECT TO THE WIRES IN THE BOX.

WOOD POLE SERVICE INSTALLATION

INSTALL NO. 3 1/2 PULL BOX ADJACENT TO EACH STREET LIGHT POLE ALONG WITH A FUSE HOLDER AND A 10 AMP FUSE (BUSS#HEB A-A FOR FNM FUSES OR EQUAL TO) THERE SHALL BE NO SPLICES IN POLE BASES.
NOTES

1. SPRINKLER CONTROLLER SERVICE LOCATIONS SHALL BE ESTABLISHED PRIOR TO CONSTRUCTION.

2. ELECTRICAL SERVICE CONDUIT SIZE SHALL BE 1-1/2" SCHEDULE 40 18" DEEP.

3. CONDUCTORS SHALL BE MINIMUM NO. 10 (ONE WHITE, ONE RED) PULLED WITH A NUMBER 10 BARE COPPER BOND WIRE. BOND WIRE SHALL CONNECT TO ALL CONTROLLERS AND GROUND RODS IN THE SYSTEM.

4. CONTROLLER CABINETS SHALL BE INSTALLED PER CITY OF NAPA SPECIFICATIONS.

5. INSTALL 6"X6"X4" LANDING CAN WITH GROUND BUS. INSTALL #8 ARMORED GROUND CABLE FROM GROUND BUS TO CABINET FOUNDATION BOLT. INSTALL 1/2" OFFSET NIPPLE FROM LANDING CAN TO ONE SINGLE GANG HANDY BOX. INSTALL ONE GFCI DUPLEX RECEPTACLE INTO HANDY BOX.

6. INSTALL 14/3 SJO CORD WITH STRAIN RELIEF FROM SPRINKLER CONTROLLER BOX. INSTALL 90 DEGREE CORD CAP ON OTHER END OF SJO CORD AND PLUG INTO GFCI RECEPTACLE.

7. CONTACT CITY OF NAPA ELECTRICAL DIVISION PRIOR TO BACKFILLING ANY ELECTRICAL CONDUIT TRENCHES.

8. CONTACT CITY OF NAPA ELECTRICAL DIVISION FOR ELECTRICAL SERVICE LOCATIONS AND PRIOR TO STARTING ELECTRICAL WORK (707) 257-9588.

9. INSTALL 1/2"X8' COPPER CLAD GROUND ROD.
PULL BOX W/ STEEL RING & COVER (S-14)

CENTER IN LANE (TYP.)

TYPE "A" LOOP (TYP.)

8' X 8' LOOPS TO BE WOUND IN ALTERNATE DIRECTIONS (TYP.)

9' TYP.

12''

PULL BOX & LOOPS INSTALLATION

LOOP CABLES (LOOP CABLES NOT IN SAWCUT SHALL BE COVERED WITH SAND & PATCHED WITH ASPHALT. CONCRETE SHALL NOT BE PLACED AROUND WIRES.)

PULL BOX W/ STEEL RING & COVER PER CITY STD. S-14. COVER TO BE MARKED "ELECT".

2" COND. SLEEVE (THROUGH WALL OF BOX.)

P.C.C. COLLAR

2" COND. SLEEVE (THROUGH WALL OF BOX.)

LOOP CABLES

PULL BOX WITH STEEL RING & COVER

2" CONDUIT SLEEVE TO #5 PULL BOX (ONE CONDUIT FOR EACH SET OF LOOPS.) DO NOT ENTER THROUGH BOX WALL.

TYPE "A" & "D" LOOPS

TYPE "A" LOOPS (4 TURNS)

TYPE "D" LOOP (6 TURNS)

CITY OF NAPA

PUBLIC WORKS DEPARTMENT

INDUCTIVE LOOPS FOR TRAFFIC SIGNALS

DRAWN BY: BRL
CHECKED BY: SEC
DATE: 06/2018
APPROVED BY: JRL
SCALE: NONE
FIELD NOTES:

DRAWING NO. E-9