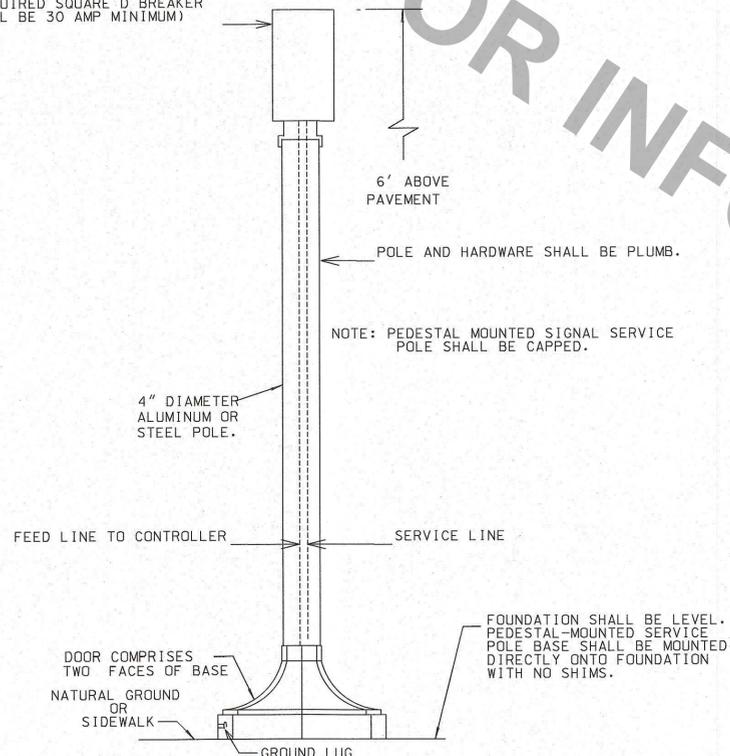


PEDESTAL-MOUNTED SIGNAL SERVICE POLE INSTALLATION

ELECTRICAL SERVICE DISCONNECT RAIN-TIGHT ENCLOSURE (REQUIRED SQUARE D BREAKER SHALL BE 30 AMP MINIMUM)

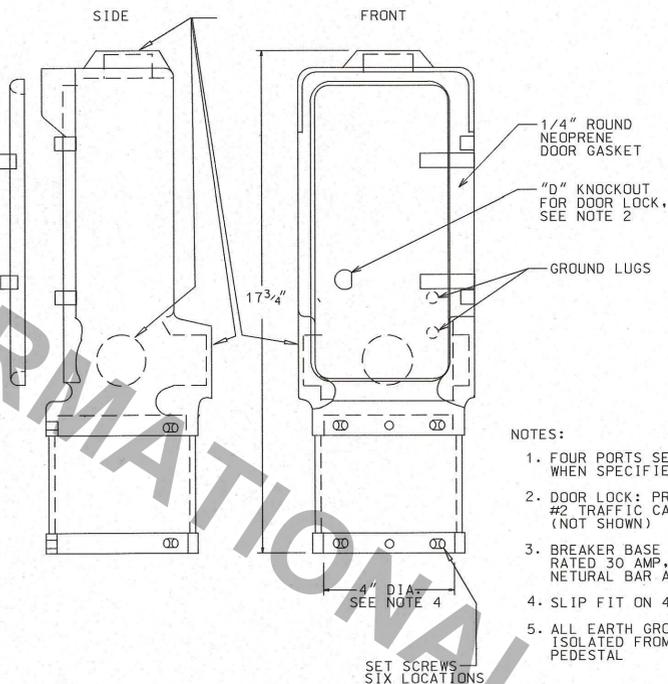


(FOR FOUNDATION USE STANDARD DETAIL FOR SIGNAL PEDESTAL FOUNDATION)

NOTES:

- UNDERGROUND CONDUIT SHALL BE INSTALLED IN A STRAIGHT LINE FROM START TO FINISH. ANY DEVIATION FROM A STRAIGHT LINE WILL REQUIRE PRIOR APPROVAL BY THE PROJECT ENGINEER.
- THE CONTRACTOR SHALL NOT RECEIVE DIRECT PAY FOR VERTICAL RUN AT THE START AND FINISH POINTS AS WELL AS ADDITIONAL CONDUIT DUE TO A DEVIATION FROM A STRAIGHT LINE INSTALLATION.
- ALL CONCRETE SHALL BE "CLASS A" IN ACCORDANCE WITH SECT. 901 OF THE STD. SPEC'S.
- ALL SERVICE POLES SHALL BE GROUNDED WITH #6 AWG BARE SOLID GROUNDING WIRE.
- INSTALL NEW GROUND ROD. CONNECT GROUND ROD TO SIGNAL PEDESTAL BY NEW GROUND WIRE.
- SERVICE SHALL BE 120/240 V. AC AND WIRED WITH THHN-THWN OR XHHW #6 AWG, TWO BLACKS, AND ONE WHITE NEUTRAL, 3 CONDUCTOR, CONCENTRIC CABLE SHALL BE INSTALLED WHERE SERVICE WILL ATTACH TO OR ENTER STEEL SIGNAL POLE.
- SERVICE CONDUCTORS SHALL BE RUN IN A SEPARATE CONDUIT TO CONTROLLER BASE.
- ALL EXPOSED METAL SHALL BE PAINTED AS PER LADOTD STANDARD SPECIFICATIONS.

ELECTRICAL SERVICE DISCONNECT RAIN-TIGHT ENCLOSURE FOR PEDESTAL MOUNTED SIGNAL SERVICE POLE



NOTES:

- FOUR PORTS SEALED. (1 1/2" FPT WHEN SPECIFIED)
- DOOR LOCK: PROVIDE MATCHED #2 TRAFFIC CABINET KEY. (NOT SHOWN)
- BREAKER BASE IS SQUARE D RATED 30 AMP, 240 VAC WITH NEUTRAL BAR AND GROUND LUG.
- SLIP FIT ON 4" PEDESTAL POLE.
- ALL EARTH GROUNDS SHALL BE ISOLATED FROM NEUTRAL BUS AT PEDESTAL

WIRING FOR FLASHING BEACON

HEADS SHALL BE WIRED FOR A SIMULTANEOUS FLASH FOR EACH APPROACH.
NO SPARE CONDUCTORS REQUIRED
RED - FLASH CIRCUIT #1
BLACK - FLASH CIRCUIT #2
WHITE - AC COMMON
GREEN - CASE GROUND

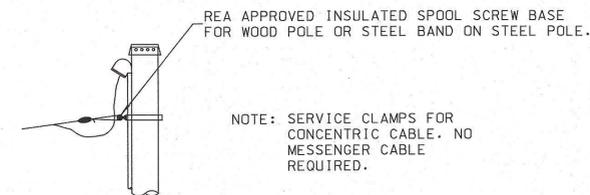
WIRING DETAIL FOR TRAFFIC SIGNAL HEADS & HANGERS

INDICATIONS	TERMINAL BLOCK	2-6 CONDUCTOR CABLES	1-10 CONDUCTOR CABLE
HEAD 1 GREEN	1	GREEN CABLE 1	GREEN
HEAD 1 AMBER	2	YELLOW CABLE 1	YELLOW
HEAD 1 RED	3	RED CABLE 1	RED
HEAD 2 GREEN	4	GREEN CABLE 2	G/BLACK
HEAD 2 AMBER	5	YELLOW CABLE 2	Y/BLACK
HEAD 2 RED	6	RED CABLE 2	R/BLACK
COMMON	7	WHITE CABLE 1 & 2	WHITE
GREEN ARROW	8	BLACK CABLE 1	BLACK
AMBER ARROW	9	BLACK CABLE 2	W/ BLACK
	10		
	11		
CASE GROUND	12	BLUE CABLE 1 & 2	BLUE

NOTE: EIGHTEEN CIRCUIT DISCONNECT HANGERS SHALL BE SIMILARLY WIRED WITH SOLID INDICATIONS WIRED FIRST FOLLOWED BY ARROW INDICATIONS. ON SPAN MOUNTED SIGNAL INSTALLATIONS, ALL BULBS SHALL BE INDIVIDUALLY WIRED FROM CONTROLLER. ALL CABLES SHALL BE CONTINUOUS RUN WITHOUT SPLICES EXCEPT AS SHOWN FOR MAST ARM INSTALLATIONS AT DISCONNECT HANGERS SHOWN ON PLANS OR WHERE JUNCTIONS ARE SHOWN ON THE PLANS. ALL WIRES SHALL BE TERMINATED IN HANGER. CONDUCTORS THAT ARE UNUSED IN SIGNAL THAT DO NOT HAVE INDICATIONS SHOWN ABOVE SHALL BE SPARE CONDUCTORS AND SHALL NOT BE USED. THE HARNESS FROM THE SIGNAL TERMINAL BLOCK SHALL BE WIRED IN ACCORDANCE TO THE ABOVE TABLE. UNUSED CONDUCTORS SHALL BE BONELESS IN HEAD WITH ENDS TAPED TO PREVENT GROUNDING TO CASES.

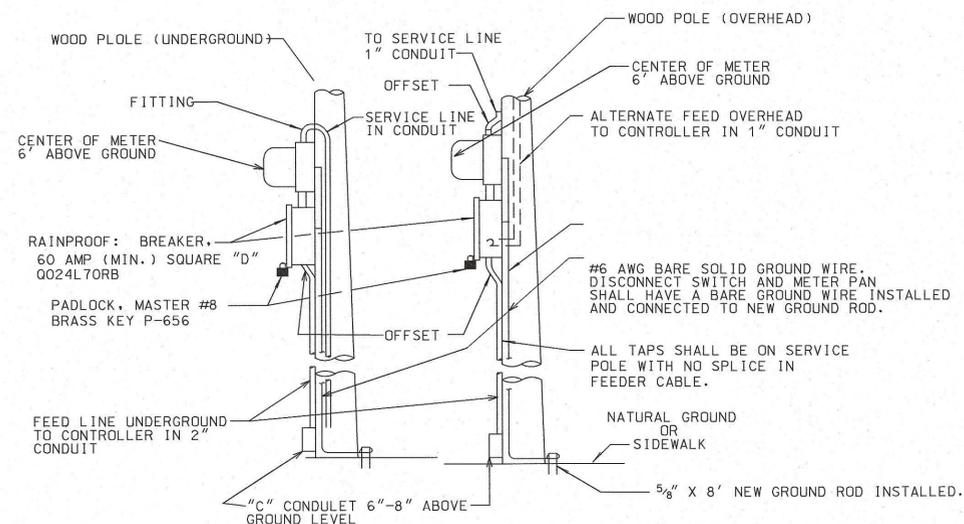
OVERHEAD SERVICE TO CONTROLLER

(AS CALLED FOR IN THE PLANS OR APPROVED BY PROJECT ENGINEER)



TYPICAL ELECTRICAL SERVICE

(BREAKER SIZED ACCORDING TO THE LOAD WITH MINIMUM BREAKER SIZE OF 60 AMP)



NOTES:

- UNDERGROUND CONDUIT SHALL BE INSTALLED IN A STRAIGHT LINE FROM START TO FINISH. ANY DEVIATION FROM A STRAIGHT LINE WILL REQUIRE PRIOR APPROVAL BY THE PROJECT ENGINEER.
- ALL SERVICE POLES SHALL BE GROUNDED WITH #6 AWG BARE SOLID GROUNDING WIRE.
- INSTALL NEW GROUND ROD AND WIRE.
- SERVICE SHALL BE 120/240 V. AC AND WIRED WITH THHN-THWN OR XHHW #6 AWG, TWO BLACKS, AND ONE WHITE NEUTRAL, 3 CONDUCTOR, CONCENTRIC CABLE SHALL BE INSTALLED WHERE SERVICE WILL ATTACH TO OR ENTER STEEL SIGNAL POLE.
- SERVICE CONDUCTORS SHALL BE RUN IN A SEPARATE CONDUIT TO CONTROLLER BASE.
- CONDUIT STRAPS SHALL BE 2 HOLE, HEAVY DUTY AND SHALL BE INSTALLED BEGINNING AT FITTING OFFSET OR COUPLING, SPACED AT 5' INTERVALS MAXIMUM ON EACH SIDE OF CONDULETS AND ADJACENT TO CABINET. 1/4" X 3" HDG LAG SCREWS SHALL BE USED ON STRAPS.
- ALL EQUIPMENT SHALL BE ATTACHED TO POLE WITH HDG LAG SCREWS.
- AN ELECTRICAL SERVICE SHALL NEVER BE BUILT ON A MAST ARM OR STRAIN POLE.



SHEET NUMBER	PARISH	FEDERAL PROJECT	STATE PROJECT
DESIGNED	S. MCCARROLL	S. MCCARROLL	2/16/2015
CHECKED	D. LORIO	L. WANG	11 OF 14
DATE			
REVISION DESCRIPTION			
DATE			
NO.			
TRAFFIC SIGNAL STANDARD DETAILS ELECTRICAL SERVICE AND WIRING DETAILS			
TSD-10			
TRAFFIC ENGINEERING			