

Traffic Signal Electric Cable Sequence Table

CONDUCTOR NUMBER	BASE/TRACER COLOR	CABLE SIZE								
		2C	5C	7C	9C	12C	15C	18C	21C	25C
1	BLACK									
2	WHITE									
3	RED									
4	GREEN									
5	ORANGE									
6	BLUE									
7	WHITE/BLACK									
8	RED/BLACK									
9	GREEN/BLACK									
10	ORANGE/BLACK									
11	BLUE/BLACK									
12	BLACK/WHITE									
13	RED/WHITE									
14	GREEN/WHITE									
15	BLUE/WHITE									
16	BLACK/RED									
17	WHITE/RED									
18	ORANGE/RED									
19	BLUE/RED									
20	RED/GREEN									
21	ORANGE/GREEN									
22	BLACK/WHITE/RED									
23	WHITE/BLACK/RED									
24	RED/BLACK/WHITE									
25	GREEN/BLACK/WHITE									

General Notes:

- All electrical connections in the signal pole base, controller cabinet and signal heads shall be made with "Burndy Hylug" or an approved equal.
- Luminaire electrical conductors to be installed in traffic signal poles and from the controller to each traffic signal pole, shall be solid copper type THW or THWN 75 degree Celsius 600 volt. An alternate type of insulation may be used if approved by the resident engineer prior to installation.
- Each traffic signal pole shall be grounded to the ground rod located in the footing. No. 4 AWG solid bare copper wire shall be connected from the ground rod to the grounding lug at the base of the pole. See SCD1-1-(Latest Revision).
- A 4-section S-13L has been shown as an example. A 5-section S-19L or a 5-section S-17L may be placed in lieu of S-13L as shown on the plans.
- APS (Accessible Pedestrian Signal and Pedestrian Pushbutton) is an integrated device that communicates information about the WALK and DONT WALK Intervals at Signalized Intersections in Non-Visual Formats (i.e., Audible Tones and Vibrotactile Surfaces) to Pedestrians who are Blind or have Low Vision. (Proposed Accessibility Guidelines for Pedestrian Facilities in the Public Right-of-Way, Advisory R209) Note that the Manual on Uniform Traffic Control Devices (MUTCD) in Paragraph 2 of Section 4E.11 Requires that APS Provide Both Audible and Vibrotactile Walk Indications. Note that the Draft PROWAG Definition States that an APS Provides information in both audible and vibrotactile formats, while the MUTCD says audible "and/or" vibrating surfaces.
- When a Conductor Signal Cable Run Length from the Traffic Signal Cabinet to a Signal Pole with APS Push Button exceeds 500 feet, Consider the Following Information when Installing Equipment.
 - Less than 500' - Install a single #14 AWG Cable
 - More than 500' but less than 1,000' - Install #12 AWG Cable
 - More than 1,000' - Ask ODOT
- Terminal block shown is diagrammatic and size may vary by wiring need. Provide terminal block appropriately sized to serve equipment as shown in the plans.

Approved By
Bridge Engineer: *[Signature]* Date: 3-24-16

Approved By
Traffic Engineer: *[Signature]* Date: 3/14/2016

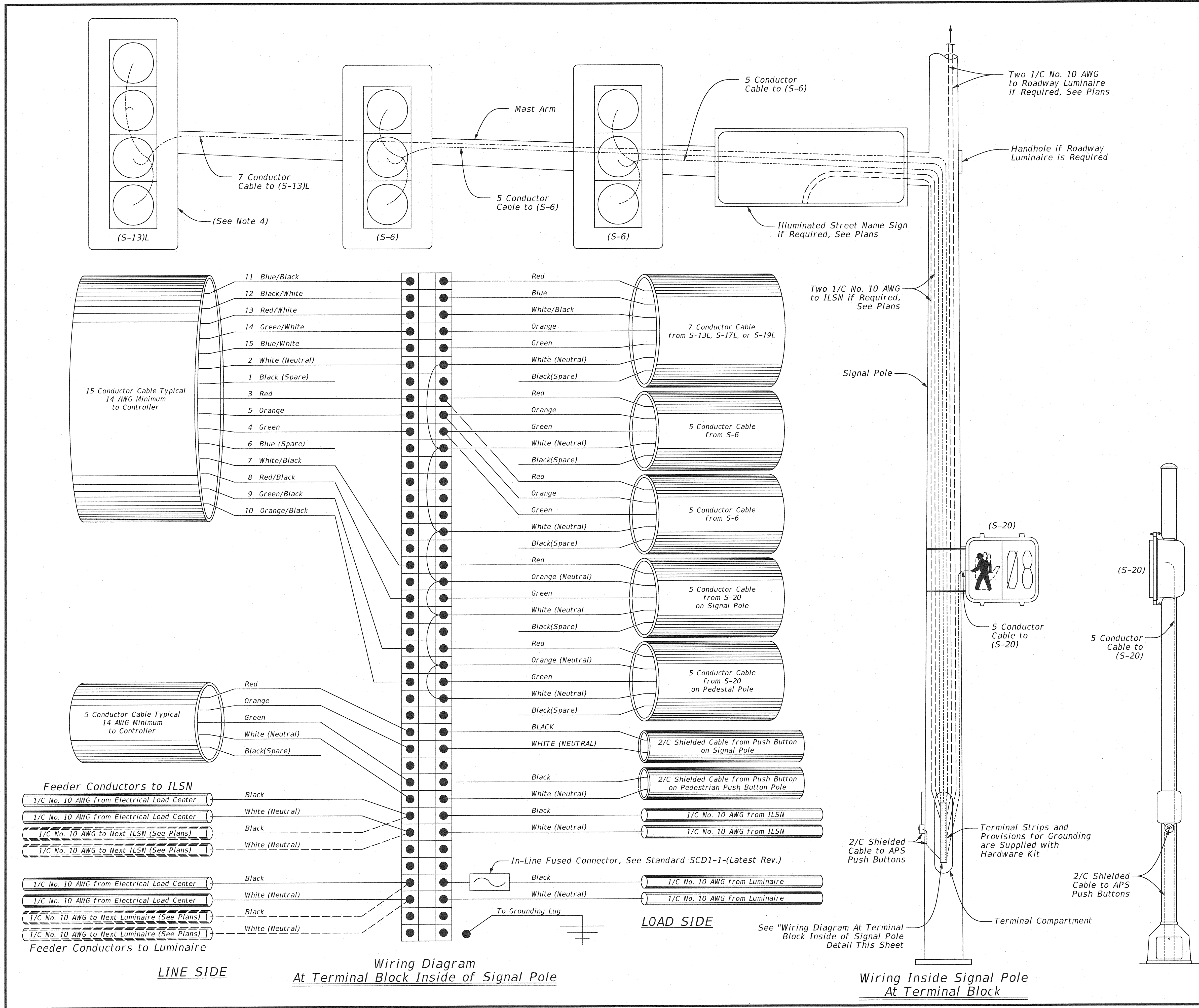
ODOT

Traffic Standard
Traffic Signal Pole Wiring and Cable Termination Details

2009 Specifications

PWD1-2	00
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T-206



Wiring Diagram At Terminal Block Inside of Signal Pole

Wiring Inside Signal Pole At Terminal Block