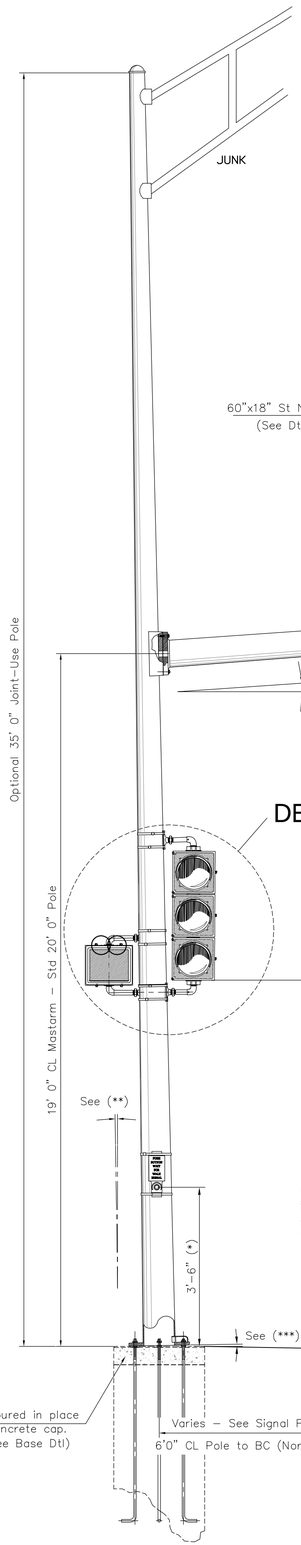
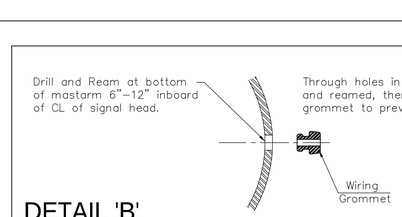
FHWA REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KANSAS	87N-0503-01	2009	72	101

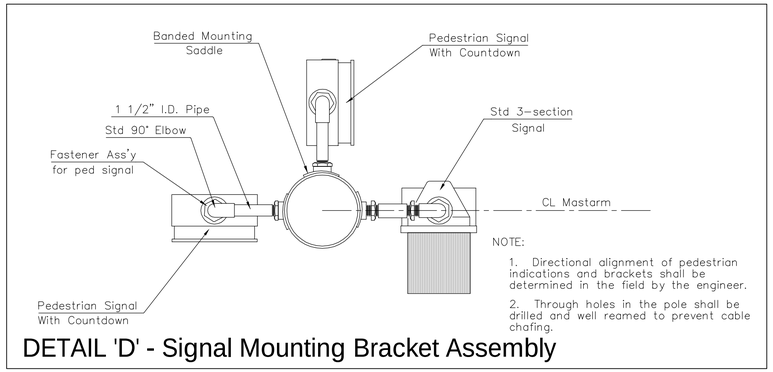
FEDERAL Project No. ARRA-N050(301)



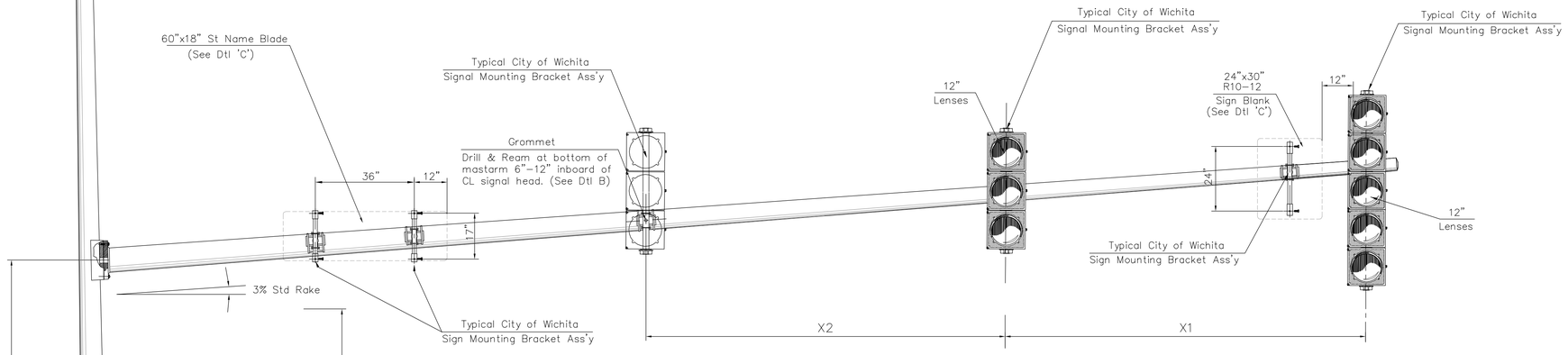
DETAIL 'D'

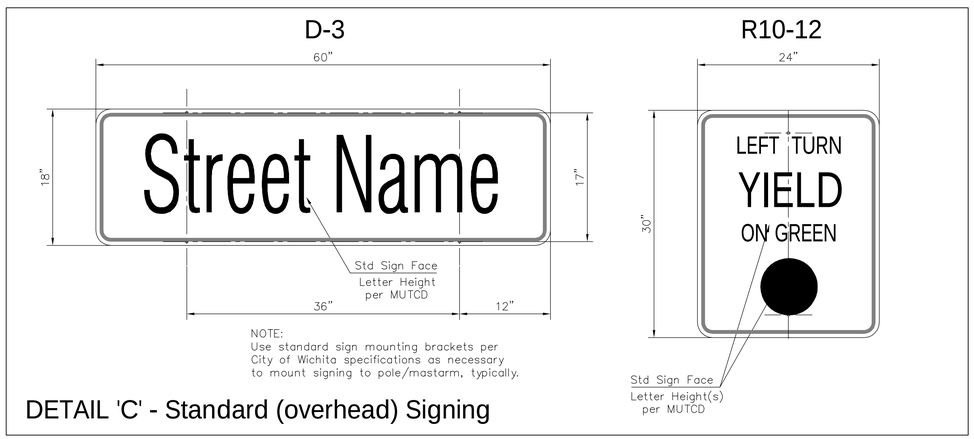


DETAIL 'B'



DETAIL 'D' - Signal Mounting Bracket Assembly





DETAIL 'C' - Standard (overhead) Signing

Pole base shown is for information only. Optional bases that may be purchased may vary in actual appearance in accordance with manufacturing company's specifications

(**) The back rake for pole is as follows:

1° back rake (1/4 bubble) for mastarms 40' and under
1 1/2° back rake (1/3 bubble) for mastarms over 40'

(***) The rake for pole base is as follows:

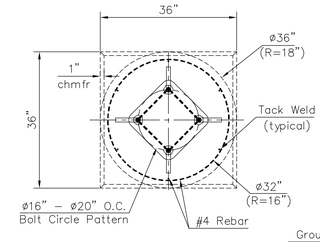
2% back rake (1/4 bubble) for mastarms 40' and under
2.6% back rake (1/3 bubble) for mastarms over 40'

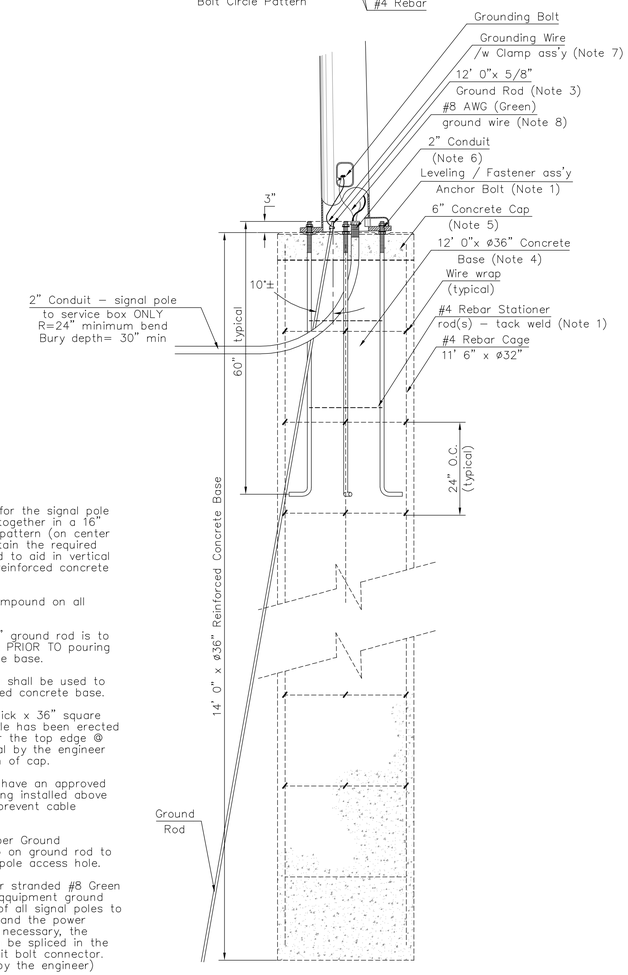
(*) Height of Pedestrian pushbutton assembly is determined as 3'6" from the sidewalk finish grade to the center of the pedestrian pushbutton.

2. Install pushbutton underneath corresponding pedestrian signal head on the side of pole nearest crosswalk.

3. The word messasge on the Pushbutton assembly is to be cast with the housing as one unit.

Pedestrian Pushbutton and Sign Unit Detail





NOTES FOR DETAIL 'A':

1. The anchor bolts for the signal pole shall be tack welded together in a 16" or 20" diameter bolt pattern (on center as is shown) to maintain the required bolt circle pattern and to aid in vertical positioning while the reinforced concrete base is being poured.

2. Use anti-seize compound on all threads.

3. The 12' 0" x 5/8" ground rod is to be positioned in place PRIOR TO pouring the reinforced concrete base.

4. Class 'A' concrete shall be used to construct the reinforced concrete base.

5. Construct a 6" thick x 36" square concrete cap after pole has been erected and plumbed. Chamfer the top edge @ 1". Subject to approval by the engineer PRIOR TO construction of cap.

6. All conduits shall have an approved plastic or metal bushing installed above the base @ 3" ± to prevent cable chafing.

7. Use #6 Bare Copper Ground Conductor from clamp on ground rod to ground bolt in signal pole access hole.

8. A single conductor stranded #8 Green Wire shall carry the eqquipment ground from the ground lug of all signal poles to the controller cabnet and the power disconnect box. When necessary, the equipment ground can be spliced in the service box with a split bolt connector. (Subject to approval by the engineer)

DETAIL 'A' - Reinforced Concrete Pole Base

Drawing File: E:\eng\Hydraulic Kellogg to Harry Pave\Details\Marking, Sign and Signal Details.Dwg

September 2009

Design: KK	Project No. 07-10-E-968 CAPITAL IMPROVEMENT PROJECT
Drawn: Staff	Signal Pole Details
Approved: JFB	HYDRAULIC AVENUE PAVING - KELLOGG TO HARRY
Scale: NOTED	

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ENGINEERING | SURVEYING | PLANNING | LANDSCAPE ARCHITECTURE

SHEET 72 OF 101