GENERAL NOTES
1. REFER TO THE ROADWAY PLANS FOR THE ACTUAL CONFIGURATION AND LOCATION OF TRAFFIC SIGNAL HEADS AND SIGNS MENTIONED.
2. ALL SIGNS SHALL BE FABRICATED WITH A203 GRADE 35 STEEL.
3. ALL MAST ARMS SHALL BE MADE OF ROUND OR DODECAGONAL (12 SIDES) TUBES WITH A 0.14 IN/FT TAPER.
4. ALL MAST ARMS SHALL BE FABRICATED FROM ASTM A572 GRADE 65 STEEL.
5. ALL SIGNS SHALL BE MADE OF GALVANIZED STEEL.
6. ALL SIGNS SHALL BE MOUNTED WITH A GALVANIZED BRACKET.

DESIGN DATA
1. DRAWING SHEETS AND SIGNAL HEADS ARE IN SCALE WITH THE MAST LENGTHS. THIS CONFIGURATION IS TO PROVIDE A CAPABLE SAFETY SITUATION.

POLE DATA

<table>
<thead>
<tr>
<th>MAST ARM LENGTH (FT)</th>
<th>BASE SECTION</th>
<th>END SECTION</th>
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ALTERNATE TRAFFIC SIGNAL
25'- 55' SINGLE MAST ARMS

STANDARD PLAN NO. S-614-40A
Safety & Traffic Engineering
KCM/RLO
Issued by: Safety & Traffic Engineering Branch July 4, 2012

Sheet Revisions
Sheet No. 1 of 4
### MAST ARM DATA

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<tr>
<th>Base Section</th>
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<th>Galloping Deflection Limits (a)</th>
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<td>WIDTH (IN.)</td>
<td>TIP (FT.)</td>
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<td>-------------</td>
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- STOP ALL WELDS "SHORT OF PLATE EDGES"
- DEFLECTION TOO SMALL TO MEASURE.
- SEE GENERAL NOTE 28 ON SHEET 1 OF 4.
- SEE GENERAL NOTE 26 ON SHEET 1 OF 4.

**BASE SECTION LENGTH INCLUDES THE SPLICE LENGTH AS PER THE "MAST ARM SLIP SPLICE DETAIL" BELOW.**

**END SECTION WITH ½" SHIM HOLES**

- ⅝" NON-MACHINED HOLES
- ⅞" NON-MACHINED HOLES
- 1" HOLES THROUGH NON-MACHINED HOLES OR SIMPLER PLATE, TOP HoLES IN PLATE SIMPLER PLATE AFTER GALVANIZING

**C HOOK DETAIL**

- "C" HOOK DETAIL
- 1" HOLES THROUGH NON-MACHINED HOLES OR SIMPLER PLATE, TOP HoLES IN PLATE SIMPLER PLATE AFTER GALVANIZING

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**ALTERNATE TRAFFIC SIGNAL**

25' - 55' SINGLE MAST ARMS

**STANDARD PLAN NO.**

S-614-40A

**Issue By:** Safety & Traffic Engineering Branch July 4, 2012

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**Computer File Information**

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**Colorado Department of Transportation**

2629 W. Howard Place
Denver, Colorado 80204
Phone: 303-757-9143  Fax: 303-757-9119

Safety & Traffic Engineering  KCM/RLO
### STANDARD PLAN NO. S-614-40A

**ALTERNATE TRAFFIC SIGNAL**

**25' - 55' SINGLE MAST ARMS**

Issued by: Safety & Traffic Engineering Branch July 4, 2012

Sheet No. 4 of 4

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### SOCKET WELD DATA

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*Note: All dimensions are in inches.*

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### BACKING RING WELD DATA

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*Note: All dimensions are in inches.*

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**CONSTRUCTION REQUIREMENTS**

- **BASE PLATE DETAIL**
- **SECTION**
- **PLASTIC NUT COVER**
- **PULL BOX**
- **GROUND LINE FINISHED**
- **LEVELING NUT**
- **COVER**
- **PLASTIC NUT**
- **LEVELING NUT**
- **PULL BOX**
- **GROUND LINE FINISHED**
- **LEVELING NUT**

**Sheet_S-614-40A_4of4.dgn**

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