

**CHANGE LIST for:
MDOT Traffic and Safety Mast Arm Traffic Signals**

Located at <http://mdotwas1.mdot.state.mi.us/public/tands/plans.cfm>

September 18, 2012:

SIG-284-A Sheet 3 of 4 Deleted “and lock washers (12)” for anchor bolt cage assembly on the Elevation detail.

March 20, 2012:

SIG-284-A: Sheet 2 of 4: Revised Standoff distance to 1” Max (distance from the top of foundation to the bottom of the leveling nut):
Changed text from ‘1 ¾” max’ to ‘**1” max**’

November 15, 2011:

SIG-284-A: Sheets 2 and 3: Revised bottom ring plate from 12 to 6 holes. Clarified galvanizing of hardware: Only exposed end of anchor bolts must be galvanized. Only exposed nuts and washers must be galvanized. Embedded ring plate, nuts, and washers need not be galvanized.

February 15, 2011: The following updates were made to the web site:

Revised “Criteria for Selection of Traffic Signal Mast Arm Poles and Mast Arms For Local Agencies” to reflect new designations for Mast Arm Special Details. Removed link to special provisions and added note to “Contact Lansing Signals (517-373-2323) for current mast arm special provisions.”

Mast Arm FUSP: Removed link to this special provision and added comment to “Contact Lansing Signals unit for current mast arm special provisions.”

Removed special detail: SIG-280-A “Traffic Signal Mast Arm Standard Foundations”.

Added special detail: SIG-284-A “Traffic Signal Mast Arm Standard Foundations”. Changed the mast arm standard foundation requirements and changed from a four bolt to a six anchor bolt system. Changed the number and size of schedule 80 PVC conduits to be used in mast arm standard foundations on sheet number 1. Added grounding requirements (note #5) from the mast arm standard to be secured to the foundation reinforcement. The foundation depth table was revised and removed from the special detail. The new Mast Arm Foundation Chart can be found in the Correspondence/Guidelines area of the website as SIG-DESIGN-284-A. Changed the special detail number **from** SIG-280-A **to** SIG-284-A to match the new pay item code number.

SIG-281-A Sheets 1 thru 4 Category I Changed to accommodate the six anchor bolt foundation.

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SIG-282-A Sheets 1 thru 4 Category II Changed to accommodate the six anchor bolt foundation.

SIG-283-A Sheets 1 thru 4 Category III Changed to accommodate the six anchor bolt foundation.

April 21, 2009: The following updates were made to the web site:

SIG 280-A Added note regarding different bolt circle diameters for the different category mast arms. Removed all references to beveled washers

SIG 282-A Changed diameter of anchor bolt hole in base plate from 2-1/8" to 2-1/4"

SIG 283-A Changed material specification for Luminaire Arm Clamp from A108 to ASTM A36. Changed diameter of anchor bolt hole in base plate from 2-1/8" to 2-1/4"

April 22, 2008: The following updates were made to the web site.

Under the subcategory MAST ARM TRAFFIC SIGNALS: The documents ST-32, ST-33 & ST-34 were updated as follows:

ST-32: on sheet 2 of 4: Deleted columns on the small chart indicating "Qty" & "Design No." The quantity column was not used and the design numbers listed were incorrect or irrelevant.

ST-33: on sheet 2 of 4:

1. On the large specification chart: a text change was made to the column header from "ARM SIZE" to read "DIMENSIONS".
2. On the smallest specification chart, text changes were made in the pole size column.
 - a. "OE" was replaced with 0.3125
 - b. "7+7E" was replaced with 0.3580
 - c. "3+3E" was replaced with 0.5000

The previous designations were invalid and had no corresponding size associated with them in our standards specs book or elsewhere.

St-34: on sheet 2 of 4: Simple text change on the chart titled "Material Specification" The existing text "ANCO' LOCK NUTS" was changed to read "ANCO' LOCK NUTS OR EQUIVALENT" This change will allow the use of non-proprietary hardware.

February 19, 2008: The following updates were made to the web site.

Under the subcategory MAST ARM TRAFFIC SIGNALS: The documents ST-32, ST-33, ST-34 & ST-35 were updated. As these updates are actually of unapproved "standards" and have the new standards border, these are listed as "special details" in the F.H.W.A. signature line. Additionally, the original detail names (ST-32, 33, 34, 35) were used instead of the newer "standards" naming convention. The original dates (9/24/07 or 9/28/07) that the revisions were made by Access Engineering to become "standards" were replaced by the web update date of 2/19/08. This will keep all related documents dated the same.

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These revised special details are meant to be interim documents until all of the standards created by Access Engineering can be approved and uploaded to the web. Future standards dates will be changed to reflect the newest web update dates.

August 31, 2006: The following updates were made to the web site. The subcategory MAST ARM TRAFFIC SIGNALS under TRAFFIC SIGNALS was added. The following documents, or links to them, were placed in this category and their respective category if applicable: Criteria, ST-32, ST-33, ST-34, Traffic and Safety Note 261, and special provision for "Traffic Signal Mast Arm Pole and Mast Arm (Trunkline).

These documents are to be used by any agency interested in having mast arm supported traffic signals on trunkline roadways. The document titled Criteria for Selection of Traffic Signal Mast Arm Poles and Mast Arms For Local Agencies should be reviewed first since it describes the different category mast arms available and the costs associated with each (including any applicable inspection fees)."