

This document summarizes the changes on each sheet of traffic signal standards that have been Updated.

12/4/2024:

- **SIG-050-A** (Wood Pole Guys And Setting Depth)
 - Sheet 1
 - a. Modified note to remove screw anchor
- **SIG-070-A** (Pedestal Foundation)
 - Sheet 1
 - a. Modified collar fastener to “Allen Socket Head Bolt”
- **SIG-072-A** (Helix Pedestal Foundation)
 - Removed from Statewide Special Details and moved to Oakland County Special Details (OC-072-A)
 - Sheet 1
 - a. Updated Handhole access to 2” x 3” minimum access handhole
- **SIG-311-A** (Bracketing for Signal Head/Case Sign Combinations (Diagonal))
 - Sheet 5
 - a. Updated fastener to “Carriage Bolt with Nyloc Nuts”

10/29/2024:

- **SIG-020-B:**
 - Updated standard name from “SIG-020-A” to “SIG-020-B”
 - Updated plan date
 - Removed disappearing legend sign from the strain pole loading table and included its weight and wind area in Load Parameters
- **SIG-021-B:**
 - Sheet 1
 - a. Updated standard name from “SIG-021-A” to “SIG-021-B”
 - b. Updated plan date
 - Sheet 2
 - a. Updated standard name from “SIG-021-A” to “SIG-021-B”
 - b. Updated plan date
 - c. Updated Pole Base Landing thickness for Size 1 Strain pole to 5/8”
 - d. Added reference to SIG-020-B in Note 1
 - e. Updated Note 4 regarding weld electrode, making it Note 5 and clarifying its intent to control the strength of the weld consumable material
 - f. Updated the pole ID tag in Detail 3 to include steel specification
 - Sheet 3
 - a. Updated standard name from “SIG-021-A” to “SIG-021-B”
 - b. Updated plan date
 - c. Updated the hand hole frame inside bend radius

- d. Updated the hand hole weld symbol in Section C
- Sheet 4
 - a. Updated standard name from "SIG-021-A" to "SIG-021-B"
 - b. Updated plan date
- Sheet 5
 - a. Updated standard name from "SIG-021-A" to "SIG-021-B"
 - b. Updated plan date
 - c. Corrected a typographical error in Note 3
- Sheet 6
 - a. Updated standard name from "SIG-021-A" to "SIG-021-B"
 - b. Updated plan date
 - c. Added an detail for anchor bolt washer placement (Detail 10)
 - d. Updated foundation plan in Detail 8 to show concrete clear cover
- Sheet 7
 - a. Updated standard name from "SIG-021-A" to "SIG-021-B"
 - b. Updated plan date
 - c. Updated detail number for Details 12 and 11
- **SIG-022-A:** This is a new standard.
- **SIG-023-A:** This is a new standard.
- **SIG-030-B:**
 - Updated standard name from "SIG-030-A" to "SIG-030-B"
 - Updated plan date
 - Updated referenced standards' names
 - Added 55ft and 60ft arms to the loading table
 - Added 18' steel truss bracket with a radar vehicle detector attached to it
 - Updated note regarding TL1
 - Added weight and wind area of 18' truss bracket to the mast arm loading table (cont'd)
- **SIG-031-B**
 - Sheet 1
 - a. Updated standard name from "SIG-031-A" to "SIG-031-B"
 - b. Updated plan date
 - c. Updated Elevation view to show a steel truss bracket
 - Sheet 2
 - a. Updated standard name from "SIG-031-A" to "SIG-031-B"
 - b. Updated plan date
 - c. Added 55ft and 60ft arms to the tables
 - d. Updated the note #10 regarding the vibration mitigation device
 - e. Updated the Arm and Pole ID tags in Detail 2 to include steel specification
 - f. Included steel truss bracket in Tapered Steel Mast Arm Pole Table
 - Sheet 3
 - a. Updated standard name from "SIG-031-A" to "SIG-031-B"
 - b. Updated plan date
 - Sheet 4
 - a. Updated standard name from "SIG-031-A" to "SIG-031-B"

- b. Updated plan date
 - c. Updated Details 7 and 8 to include requirements for 55ft and 60ft arms
 - d. Updated Section B to include requirements for 55ft and 60ft arms
 - e. Added a requirement to smooth the edges of the field drilled hole in pole in Detail 7
- Sheet 5
 - a. Updated standard name from "SIG-031-A" to "SIG-031-B"
 - b. Updated plan date
 - c. Updated hand hole weld symbol in Details 12 and 14
 - d. Updated Detail 14 to include 1/2" diameter drilled and tapped holes
- Sheet 6
 - a. Updated standard name from "SIG-031-A" to "SIG-031-B"
 - b. Updated plan date
 - c. Updated Section D to include 2" diameter anchor bolts for 55ft and 60ft mast arms
 - d. Updated Section D to change the base plate hole from Pole ID – 1" to Pole ID – 2"
- **SIG-032-B**
 - Sheet 1
 - a. Updated standard name from "SIG-032-A" to "SIG-032-B"
 - b. Updated plan date
 - c. Added vibration mitigation device in the elevation view
 - d. Updated Elevation view to show a steel truss bracket
 - Sheet 2
 - a. Updated standard name from "SIG-032-A" to "SIG-032-B"
 - b. Updated plan date
 - c. Added 55ft and 60ft arms to the tables
 - d. Added a note regarding the vibration mitigation device requirement
 - e. Updated the Arm and Pole ID tags in Detail 2 to include steel specification
 - f. Included steel truss bracket in Tapered Steel Mast Arm Pole Table
 - Sheet 3
 - a. Updated standard name from "SIG-032-A" to "SIG-032-B"
 - b. Updated plan date
 - c. Updated Section A to include requirements for 55ft and 60ft arms
 - Sheet 4
 - a. Updated standard name from "SIG-032-A" to "SIG-032-B"
 - b. Updated plan date
 - c. Updated Details 7 and 8 to include requirements for 55ft and 60ft arms
 - d. Updated Sections B and C to include requirements for 55ft and 60ft arms
 - e. Added a requirement to smooth the edges of the field drilled hole in pole in Detail 7
 - Sheet 5
 - a. Updated standard name from "SIG-032-A" to "SIG-032-B"
 - b. Updated plan date
 - c. Updated hand hole weld symbol in Details 12 and 14
 - d. Updated Detail 14 to include 1/2" diameter drilled and tapped holes
 - Sheet 6
 - a. Updated standard name from "SIG-032-A" to "SIG-032-B"

- b. Updated plan date
 - c. Updated Section D to include 2" diameter anchor bolts for 60ft mast arms
 - d. Updated Detail 16 to include 3" thick base plate for 45'-60' arms
 - e. Updated Section D to change the base plate hole from Pole ID – 1" to Pole ID – 2"
- **SIG-033-B**
 - Sheet 1
 - a. Updated standard name from "SIG-033-A" to "SIG-033-B"
 - b. Updated plan date
 - c. Updated Elevation view to show a steel truss bracket
 - Sheet 2
 - a. Updated standard name from "SIG-033-A" to "SIG-033-B"
 - b. Updated plan date
 - c. Added 55ft and 60ft arms to the tables
 - d. Updated the Arm and Pole ID tags in Detail 2 to include steel specification
 - e. Included steel truss bracket in Tapered Steel Mast Arm Pole Table
 - Sheet 3
 - a. Updated standard name from "SIG-033-A" to "SIG-033-B"
 - b. Updated plan date
 - c. Updated Section A to include requirements for 55ft and 60ft arms
 - d. Added table including the clamp widths for 30', 36' and 40' poles (20'-50' arms & 55'-60' arms)
 - Sheet 4
 - a. Updated standard name from "SIG-033-A" to "SIG-033-B"
 - b. Updated plan date
 - c. Updated Details 7 and 8 to include requirements for 55ft and 60ft arms
 - d. Updated Sections B and C to include requirements for 55ft and 60ft arms
 - e. Added a requirement to smooth the edges of the field drilled hole in pole in Detail 7
 - f. Updated the plate thickness for arm to pole connection in Detail 8
 - Sheet 5
 - a. Updated standard name from "SIG-033-A" to "SIG-033-B"
 - b. Updated plan date
 - c. Updated hand hole weld symbol in Details 12 and 14
 - d. Updated Detail 14 to include 1/2" diameter drilled and tapped holes
 - Sheet 6
 - a. Updated standard name from "SIG-033-A" to "SIG-033-B"
 - b. Updated plan date
 - c. Updated Section D to change the base plate hole from Pole ID – 1" to Pole ID – 2"
- **SIG-040-C**
 - Sheet 1
 - a. Updated standard name from "SIG-040-B" to "SIG-040-C"
 - b. Updated plan date
 - Sheet 2
 - a. Updated standard name from "SIG-040-B" to "SIG-040-C"

- b. Updated plan date
 - c. Updated drilled shaft stickup dimension in Detail 2
- Sheet 3
 - a. Updated standard name from "SIG-040-B" to "SIG-040-C"
 - b. Updated plan date
 - c. Updated Section B to include minimum clear cover requirement and 2" diameter anchor bolts for 55ft and 60ft mast arms
 - d. Updated Detail 3 to include requirements for 2" diameter anchor bolts for 55ft and 60ft mast arms
 - e. Updated Detail 4 to include requirements for 55ft and 60ft arms, and the maximum shaft stickup requirement
- Sheet 4
 - a. Updated standard name from "SIG-040-B" to "SIG-040-C"
 - b. Updated plan date
 - c. Reformatted the notes
- **SIG-060-B**
 - Sheet 1
 - a. Updated standard name from "SIG-060-A" to "SIG-060-B"
 - b. Updated plan date
 - c. Updated CAD workspace to current MDOT workspace
 - d. Updated sheet borders to current MDOT border style
 - e. Revised U-Bolt note to say "U-BOLT WITH HEX NUT, FLAT WASHER & LOCK WASHER (SEE U-BOLT AND CHANNEL SIZING TABLE)"
 - f. Added 1/2" edge distance callout between channel edge and gusset plate edge
 - g. Updated gusset plate callout from "3/8" ASTM A-36 plate" to "1/4" ASTM A-36 PLATE" per MDOT SSC.
 - h. Removed "3/8" x 4" ASTM A-36 flat bar" callout.
 - i. Updated "Top View" label to "PLAN – STEEL POLE MOUNTED TRUSS BRACKET ASSEMBLY"
 - j. Added U-Bolt and Channel Sizing table
 - k. Updated stiffener callout from "1/4" x 2" ASTM A36 plate" to "1/4" ASTM A36 PLATE"
 - l. Updated ground wire callout from "... per typical" to "... per mounted equipment details"
 - m. Updated mounting plate callout from 3/8" thickness to 1/4" thickness per SSC
 - n. Updated channel callout to reference U-Bolt and channel sizing table
 - o. Updated "Front View" label to "ELEVATION – STEEL POLE MOUNTED TRUSS BRACKET ASSEMBLY"
 - p. Removed "Steel Pole Mount Truss Bracket Assembly" title
 - q. Relabeled ""Dimensions" Size Table" to "TRUSS BRACKET DIMENSIONS AND LIMITS"
 - r. Added maximum device weight and project surface area limits to truss bracket dimensioning table with a note describing the additions.
 - Sheet 2
 - a. Updated standard name from "SIG-060-A" to "SIG-060-B"
 - b. Updated plan date
 - c. Updated CAD workspace to current MDOT workspace
 - d. Updated sheet borders to current MDOT border style
 - e. Updated "Top View" label to "PLAN – WOOD POLE MOUNTED TRUSS BRACKET ASSEMBLY"

- f. Updated ground wire callout from "... per typical" to "... per mounted equipment details"
 - g. Updated "Front View" label to "ELEVATION – WOOD POLE MOUNTED TRUSS BRACKET ASSEMBLY"
 - h. Removed Wood Pole Mount Truss Bracket Assembly" title
 - i. Updated "Mounting Plate Detail" label to "DETAIL – MOUNTING PLATE"
 - j. Relabeled ""Dimensions" Size Table" to "TRUSS BRACKET DIMENSIONS"
- o. Sheet 3
 - a. Updated standard name from "SIG-060-A" to "SIG-060-B"
 - b. Updated plan date
 - c. Updated CAD workspace to current MDOT workspace
 - d. Updated sheet borders to current MDOT border style
 - e. Updated "Top View" label to "PLAN – WOOD POLE MOUNTED TRUSS BRACKET ASSEMBLY"
 - f. Updated ground wire callout from "... per typical" to "... per mounted equipment details"
 - g. Updated "Front View" label to "ELEVATION – WOOD POLE MOUNTED TRUSS BRACKET ASSEMBLY"
 - h. Removed "Wood Pole Mount Truss Bracket Assembly" title
 - i. Updated Mounting Plate Detail" label to "DETAIL – MOUNTING PLATE"
 - j. Relabeled ""Dimensions" Size Table" to "TRUSS BRACKET DIMENSIONS"
- **SIG-DESIGN-154-A:** This is a new standard developed for the 36" diameter foundation.
- **SIG-DESIGN-284-B**
 - a. Updated standard name from "SIG-DESIGN-284-A" to "SIG-DESIGN-284-B"
 - b. Updated plan date
 - c. Added foundation lengths for >50 to 60 ft arms
 - d. Updated foundation length for single arm, low sand, and arm length from 20 to 50 feet (previously 19.5 ft)
 - e. Updated "Note: A Detailed Site Specific Design is Required for the Following Conditions" to "Note: A Detailed Site Specific Design is Required for **Any** of the Following Conditions"
 - f. Updated the arm length requirement for a detailed site specific design (update to Note 2)
 - g. Updated "ground surface" to "finished ground surface" in Note 3
 - h. Updates to Other Notes: (1) Updated the depth of upper soil modeled as disturbed soil; (2) Soil modeled as low strength granular material and (3) Updated "drilled shaft head deflection" to "drilled shaft head lateral deflection"