5 Legends & Bubbles

The legend sheet for all plan types shall contain all definitions for bubbles that are shown on the Signal, Detector, and any other plan sheets. The legend also shows the signal head types along with the signal and sign mounting options. Other items may be included on this sheet if space allows.

Some of the more common bubble notes are shown in the example below:

Figure 5-1 / Common Bubble Notes

LEGEND CONTINUED EGENDCONTROLLERS WIRES & CABLES Install a model 332S cabinet & control equipment N-C Install (N=number) No. 8 AWG THWN (Signal system common) with riser frame, orient louvered door as shown Install (N=number) No. 12 AWG THWN Install model 2070 controller in W-12C for (Vehicle, Pedestrian and Ramp model 33x cabinet meter pedestal common) Install Controller cabinet (See Signal Plan) Install (N=number) No. (G=AWG wire size) XHHW wires Railroad controller (By Others) Install (N=number) No. (G=AWG wire size) THWN wires POLE Install (N=number) twisted pair PE-39 (gel filled) interconnect cable Install (T=type) standard traffic signal mast arm pole PL Install poly pull line (See, "Pole Entrance Chart") Install (L=lenath) foot traffic signal mast arm Ph Includes 3 spare wires for phase (Ph=phase) as per table Install pedestrian signal pedestal with frangible base CONDUITS Retain and protect existing power pole (Power source) SIGNALS Install (S=size) inch conduit (c)Install phase (Ph=phase) vehicle signal Detector conduit (See Detector Plan) Install phase (Ph=phase) countdown pedestrian signal (EC) Electrical conduit (See Signal Plan) with clamshell mount and pushbutton with 'H' mount SIGNS Install 2" conduit stub (For future use, cap ends) Install aluminum (30"x36", type "W7") "LEFT TURN YIELD ON GREEN BALL" sign (R10-12) (RR) Conduit installed (By Others) FR Install (36"x36") NO RIGHT TURN "SYMBOL" GR part time restriction sign (R3-1) Install conduit and wire as required by power company See signing plans for details Install 6" max.sand pocket block-out ★ See signing plans for a consign and attachment | ★ See signing plans for a consign and attachment | ★ See signing plans for a consign and attachment | ★ See signing plans for a consistency | ★ See signing plans for a consign and attachment | ★ See signing plans for a consistency | ★ See signing plans for a consistenc with (S=size) inch conduit to junction box Retain and protect existing electrical conduit Install base mounted service cabinet, 120/240 volt metered, (BMC) FIRE PREEMPTION Install channel (Ch=channel), (N=number) barrel fire preemption detector unit Install recessed terminal cabinet, see T.R.S. DWG NO. XXXXX Install channel (Ch=channel) fire preemption detector feeder cable Install 17"x10"x12" (min. dimension) precast concrete junction box Install 17"x10"x12" (min. dimension) precast concrete junction box with concrete apron SIGNAL MOUNTING OPTIONS | Install 22"x12"x12" (min. dimension) | precast concrete junction box | Install 22"x12"x12" (min. dimension) | precast concrete junction box with concrete apron B = Adjustable signal bracket assembly w/rain cap(s) (Install 1" metallic chase nipple) SIGN MOUNTING OPTIONS Install 30"x17"x12" (min. dimension) AB = Adjustable sign bracket assembly w/rain cap(s) precast concrete junction box Junction box (See Signal Plan) SIGNAL HEAD TYPES 2 = 12" R, 12" Y, 12" G Junction box (See Detector Plan) 3L = 12" RLTA, 12" YLTA, 12" GLTA 4 = 12" R. 12" Y. 12" G. 12" GLTA Junction box installed (By Others) Retain and protect existing junction box DETECTION Install (X=number of cables) phase (Ph=phase) loop feeder cables Install phase (Ph=phase) 6' round or 4' diamond

Install (N=number) pair of loop wires

All contract plans shall be plotted "B" size (11"x17") The Legend sheet is typically scaled at 100:1. This is set with Annotation Scale. You can turn this on and off from many different locations including

- The drawing scale toolbar
- The place active cell dialog
- The place text dialog

For additional information on using Annotation Scale click on the following link: MicroStation Users Guide.

The legend plan shall include:

- All definitions (Bubble Notes) for bubbles that are present on the signal and detector plan sheets. This must be shown under the correct heading,
- Show all vehicle signal head types, sign types and signal/sign mounting types,
- Show the cross reference note to all other plan sheets in the signal plan set,
- Title block in the lower right hand corner of the legend sheet,
- Show all the TM450 thru TM498 standard drawings that will be needed for the project in the area provided in the lower right hand title block.

Note: Only the first sheet shall show the standard drawings required for the project. This area on all other signal plan sheets shall be left blank.

See examples on the next 3 pages. The figure below of a Legend sheet shows two legend headings and common bubble note headings already in place. This sheet is ready to have bubble notes placed under the correct headings.

The Headings are in the Install portion of the Place Notes Signals Tool. See Figure 5-3.

The Legend Headings are located under the Signal Plans, Plan Sheet Notes tab. See Figure 5-4.

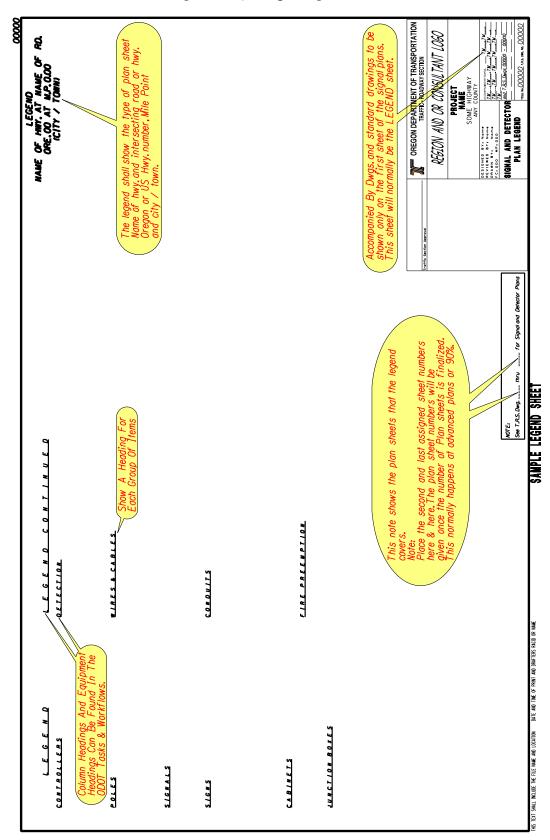


Figure 5-2 | Sample Legend Sheet

Place Note Signals

Note Type: Install
Category: Poles
Note: Heading: POLES

Help

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Figure 5-3 | Bubble Note Headings

Figure 5-4 | Legend Heading



The example below of a finished legend sheet with bubble notes and mounting options placed under the correct headings.

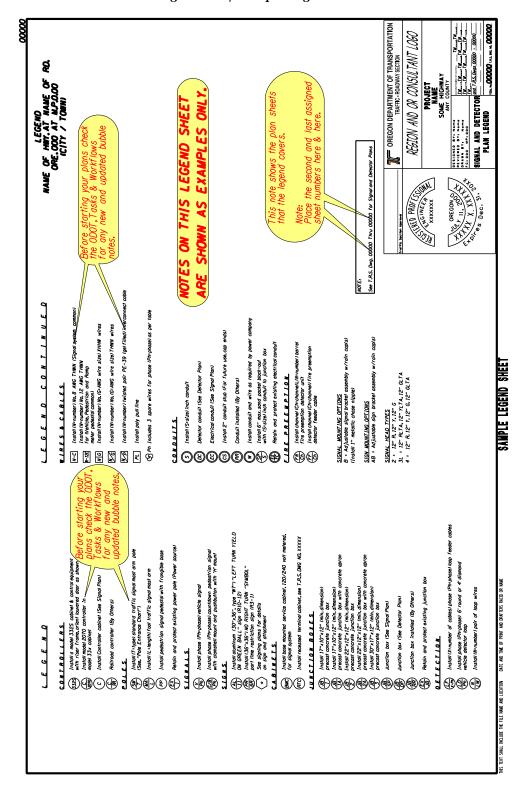


Figure 5-5 | Sample Legend Sheet

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