2024 Standard Plan Revision Summary

Standard Plan A-50.10-02 Embankment Widening at Bridge End with Wing Wall – SME requested revision to the plan to update plan references in callout and revise Tapered Barrier Toe Detail and Title.

Standard Plan C-20.41-05 Box Culvert Embedded Anchor Guardrail Steel Post ~ Type 31 – SME requested revision to the plan to update General Note 4.

Standard Plan C-20.43-01 Box Culvert Bolt-Thru Anchor Guardrail Steel Post ~ Type 31 – SME requested revision to the plan to update General Note 4.

Standard Plan C-20.44-00 Short Radius Guardrail System (SRGS) ***(New Plan)*** – SA/SME requested creation of a Std. Plan based on MASH intersection guardrail design based off NCHRP 15-53 project.

Standard Plan C-20.55-00 Beam Guardrail Bull Nose Terminal Type 2 ***(New Plan)*** – SA/SME requested creation of a Std. Plan based on MASH compliant Bull Nose Guardrail Terminal Standard Plan (Midwest design) per MwRSF Research report No. TRP-03-418-20.

Standard Plan C-22.40-11 Beam Guardrail Type 31 Non-Flared Terminal (All Posted Speeds) – SME requested revision to the plan to add "Length of Need" (LON) dimension to each Elevation View.

Standard Plan C-22.45-07 Beam Guardrail Type 31 Non-Flared Terminal (Posted Speed - 45 MPH and Below) – SME requested revision to the plan to add "Length of Need" (LON) dimension to each Elevation View.

Standard Plan C-24.10-05 Guardrail Connection to Bridge Rail or Concrete Barrier – SME requested revision to the plan to revise Note 1 and add new Note 2 to General Notes. Revise General note references in views.

Standard Plan C-25.32-00 Beam Guardrail (Type 31) Transition Section Type 25 ***(New Plan)*** – SA/SME requested creation of a Std. Plan based on MASH intersection guardrail design based off NCHRP 15-53 project (same report as for C-20.44).

Standard Plan C-60.10-04 Concrete Barrier Type F (Precast) – SME requested revision to the plan to add permissible lifting holes to Elevation. Revise dimensioning to welded washer detailing for Connecting Pin Assembly Detail.

Standard Plan C-60.15-01 Concrete Barrier Type F with Scuppers (Precast) – SME requested revision to the plan to revise dimensioning to welded washer detailing for Connecting Pin Assembly Detail.

Standard Plan C-60.30-02 Type F Transition to Type 2 Barrier Plan – SME requested revision to the plan to revise dimensioning to welded washer detailing for Connecting Pin Assembly Detail.

Standard Plan C-60.40-01 Type F to CIP Single-Slope Barrier Transition (Cast-In-Place) – SME requested revision to the plan to revise dimensioning to welded washer detailing for Connecting Pin Assembly Detail.

Standard Plan C-60.45-01 Type F to Precast Single-Slope Barrier Transition (Precast) – SME requested revision to the plan to revise dimensioning to welded washer detailing for Connecting Pin Assembly Detail.

Standard Plan C-60.50-01 Type F to Single-Slope Bridge Barrier Transition – SME requested revision to the plan to revise dimensioning to welded washer detailing for Connecting Pin Assembly Detail. Section A - revise overall barrier height dimension.

Standard Plan C-60.60-01 Type F to Type F Bridge Barrier Transition – SME requested revision to the plan to revise dimensioning to welded washer detailing for Connecting Pin Assembly Detail.

Standard Plan C-60.80-02 Type F Terminal End Section – SME requested revision to the plan to revise dimensioning to welded washer detailing for Connecting Pin Assembly Detail.

Standard Plan C-70.15-01 Single-Slope Concrete Barrier with Scuppers (Precast) – SME requested revision to the plan to add missing overall length dimension to Top View.

Standard Plan F-10.18-04 Roundabout Cement Concrete Curbs – SME requested revision to the plan to provide clarity to Sections (add Diamond notes). Revised Curb detail and Section C to clarify.

Standard Plan F-45.10-05 Detectable Warning Surface – SME requested revision to the plan to correct note reference on Perpendicular Curb Ramp Plan View.

Standard Plan H-10.10-01 Tree, Shrub and Groundcover Planting Details – SME requested plan revision to better align with WSDOT policy.

Standard Plan H-10.11-00 Tree Protection Detail *(New Plan)* – SME requested plan creation to address WSDOT tree protection policy.

Standard Plan H-10.15-01 Live Stake Installations – SME requested plan revision to better align with WSDOT Live Stake installations policy.

Standard Plan H-10.16-00 Live Fascine Bundle Installations *(New Plan)* – SME requested plan creation to address WSDOT Live Fascine Bundle Installation policy.

Standard Plan J-10.25-01 Transformer Cabinet (480V/240V - 240V/120V): Standardized the design regardless of input and output voltages, removed the secondary main breaker to allow for full use of the 12-position breaker panel, added the option for inclusion of a lighting circuit (including photocell), and added a surge protection device to allow for direct wiring of Variable Message Signs (we will no longer receive a load center in a VMS cabinet, removing the need for a specialized VMS cabinet).

Standard Plans J-20.01-01 Light and Signal Standard Index and Identification, **J-21.10-05 Type PS, Type 1, RM & FB Signal Standard Foundation Details, J-21.16-02 Flashing Beacon Type 1 Signal Standard Details, J-22.15-03 Ramp Meter (Type RM) Signal Standard Details, J-22.17-00 Ramp Meter Signal Installation Details *(New Plan)*** - This block of plans has been revised to accomplish two things:

1. Slip-base foundations are being replaced with frangible bolt installations. This allows us to use one base plate, anchor bolt arrangement, and foundation design for both fixed and breakaway poles, with the only difference being the inclusion of breakaway bolt connections (ex: Transpo Pole-Safe), and for any site to be breakaway without significant modifications. Slip base pole drawings will be retained internally to support ordering maintenance spares, but all new construction will be square base plates.
2. Simplify the number of pole types. To reduce the number of pole types, omit duplicate information, and make the types more clear, the short vertical poles have been revised into four basic setups: PS (8 ft, square base), RM (8 ft, triangle base), I (10 ft, square base), and FB (15 ft, square base). To support this, J-22.17 was split out as a separate plan for Type I Ramp Meter Signal installations as it uses different pole types for different base configurations – J-22.15 was reduced to just the Type RM pole itself (no foundation or base details).

Standard Plan J-20.05-00 Pedestrian Pushbutton (PPB) Location and Orientation *(New Plan)* - This is a new plan that shows proper field placement and orientation of accessible pedestrian pushbuttons. This had been in the works for a while, but the pending requirement that all PPBs be accessible (not necessarily APS) pushed this to the top of the list. Along with pending Design Manual revisions (1330 and 1510), this will now be an issue for flashing beacon systems (including RRFBs).

Standard Plan J-20.15-04 Accessible Breakaway Pedestrian Pushbutton (PPB) Post - Breakaway PPB Post: Revised to show both a flat and curb based installation. The fixed base version has been deleted and will no longer be allowed for new construction.

Standard Plan J-28.30-04 Steel Light Standard Foundation Types A & B - Per discussions with maintenance, we are moving the supplemental ground connection so that it only bonds the pole anchor bolts to the foundation reinforcing steel. This will perform the same function as the previous setup that connected the reinforcing steel to the ground lug in the pole while remaining intact in case of a knockdown (typically the current design is sheared and no longer usable).

Standard Plan J-55.05-00 Aluminum Wire Inline (Butt) Splice Details *(New Plan)* - Pending guidance will require the use of aluminum wire for all power circuits (single-conductor wire) in King, Pierce, and Snohomish Counties, at a minimum, due to repetitive theft issues. Additional areas and/or projects will be added at the request of Signal Maintenance Managers. Since aluminum wire splicing is less forgiving than copper wire splicing, additional details were necessary.

Standard Plan L-5.10-02 Bridge Railing Type Chain Link Pipe Rail – SME requested revision to the plan to incorporate StdPlan GSP items.

Standard Plan M-12.10-03 Roundabout Pavement Markings – SME/SA requested the plan sheet order be revised to bring the pavement marking plan that is a more common configuration to the fore front.

Standard Plan M-20.30-05 Longitudinal Marking Supplement with Raised Pavement Markers – SME requests revision to General Notes 1 – 3 to remove "shall be" from the notes.

2024 Retired Standard Plans (Plan Content will be available - Plan Sheet Library for detailing purposes)

C-2c Guardrail Placement Median Bull Nose (Cases 9A, 9B & 9C)

C-4f Beam Guardrail Bull Nose Terminal

C-20.42-06 Guardrail Placement Strong Post ~ Type 31 Intersection Design