

2015 STANDARD PLANS DIGEST

October 30, 2015

The 2015 edition of the California Department of Transportation Standard Plans is based on U.S. Customary units. This is the third edition since the Department has reverted back to U.S. Customary units as its base units.

The 2015 edition of the Department's Standard Plans is to be used in conjunction with the 2015 edition of the Department's Standard Specifications.

The 2015 edition of the Department's Standard Plans was primarily developed by using the 2010 edition of the Department's Standard Plans. The various lists of abbreviations throughout the standard plans were consolidated into one list and named the "A3" series. Some notes that are specifications have been deleted from the standard plans and put into the standard specifications or standard special provisions. These changes and others are listed in the digest below.

This digest only identifies the more significant changes in the 2015 edition of the Standard Plans in comparison with the 2010 edition Standard Plans and is not comprehensive. It will be necessary to view all the plans carefully.

The digest is arranged in the same order as the series of plans that appear in the hardcopy book. The order is: "A" Series, "P" Series, "C" Series, "D" Series, "H" Series, "T" Series, "B" Series, "RS" Series, "S" Series, and "ES" Series.

STANDARD PLAN	CHANGES
	General notes: <ul style="list-style-type: none"> • Removed the following abbreviations from various plan sheets because they are covered by A3 series: FS, GP, ID, OD, OG. • Removed the following symbols from the legend or notes on various plan sheets because they are covered by A10 series: original ground, direction of travel.
"A" Series	
A3A thru A3C	<ul style="list-style-type: none"> • Abbreviations from 2010 A10A, A10B, H1, B0-1, and ES-1A have been consolidated into one list and placed on these sheets for the 2015 edition. • Symbols have been removed from the abbreviation list and have been placed in Table C on sheet A3C. • 2010 A10A, A10B, and H1 are not part of the 2015 edition.
A10A thru A10E	<ul style="list-style-type: none"> • Abbreviations are in the A3 series for the 2015 edition. Therefore, sheet numbers A10A and A10B were redirected to lines and symbols. Some of the lines and symbols from sheets A10C through A10E were redistributed to sheets A10A and A10B. • Revised sheet titles from "Lines and Symbols" to "Legend - Lines and Symbols." • Revised symbols under "Symbology for Design Features." • Added symbol for "Finished Grade Line." • Relocated fiber roll symbology from 2010 A10C to 2015 H1. • Moved striping and signing related symbols out of ""Symbology for Design Features" and put under its own heading. • Added the following lines under "Subsurface Facilities": <ul style="list-style-type: none"> • New and existing recycled water lines • Existing irrigation conduit • Existing electrical systems conduit • Revised heading from "Photogrammetric mapping . . ." to "Topographic mapping . . ." • Added a section for drafting symbols. • Added a section for utility cell symbology. • Added a symbol for "Void" under "Topographic Mapping Lines and Symbols."

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A40A	<ul style="list-style-type: none"> • Canceled this sheet (i.e., Shoulder Rumble Strip Details - Rolled-in Indentations) because this installation is no longer practiced.
A62B	<ul style="list-style-type: none"> • Removed references and details pertaining to metal and timber crib walls.
A73C	<ul style="list-style-type: none"> • Eliminated Type I delineator from the delineator table.
A76G	<ul style="list-style-type: none"> • Corrected reference in Note 2 from "A76" to "A76I."
A77L1	<ul style="list-style-type: none"> • Relocated Note 16 (i.e., Install posts in soil.) to the specifications. • Removed "lap rail elements in direction of traffic" from details - already covered in specifications.
A77L2	<ul style="list-style-type: none"> • Relocated Note 15 (i.e., Install posts in soil.) to the specifications. • Removed "lap rail elements in direction of traffic" from details - already covered in specifications.
A77L3	<ul style="list-style-type: none"> • Relocated Note 4 (i.e., Install posts in soil.) and Note 6 (i.e., Holes excavation in the slope to construct the buried post end anchor shall be backfilled with selected earth, placed in layers approximately 1'-0" thick. Each layer shall be moistened and thoroughly compacted.) to the specifications.
A77S1	<ul style="list-style-type: none"> • Relocated Note 4 (i.e., Install line post, steel foundation tube and soil plate in soil.) to the specifications.
A77T2	<ul style="list-style-type: none"> • Relocated Note 2 (i.e., Holes excavation in the slope to construct the buried post end anchor shall be backfilled with selected earth, placed in layers approximately 1'-0" thick. Each layer shall be moistened and thoroughly compacted.) to the specifications.
A77U5	<ul style="list-style-type: none"> • Deleted Note 2 (i.e., All posts for any standard barrier run shall be of the same type: Wood or Steel.) because this is already covered in the specifications. • Relocated Note 3 (i.e., Install posts in soil.) to the specifications.
A78A	<ul style="list-style-type: none"> • Relocated 2nd sentence of Note 8 (i.e., Spacing of barrier markers to match spacing of raised pavement markers on adjacent median edgeline pavement delineation.) to the specifications. • Relocated Note 9 (i.e., Install posts in soil.) to the specifications.
A78B	<ul style="list-style-type: none"> • Relocated Note 11 (i.e., Install posts in soil.) to the specifications. • Removed "lap rail elements in direction of traffic" from details - already covered in specifications.
A78E1	<ul style="list-style-type: none"> • Removed "lap rail elements in direction of traffic" from detail - already covered in specifications.
A78E2	<ul style="list-style-type: none"> • Removed "lap rail elements in direction of traffic" from detail - already covered in specifications.
A78E3	<ul style="list-style-type: none"> • Removed "lap rail elements in direction of traffic" from detail - already covered in specifications.
A81A	<ul style="list-style-type: none"> • Relocated Note 6 (i.e., Place the top of the Type R marker panel 1" below the module lid.) to the specifications.
A81B	<ul style="list-style-type: none"> • Relocated Note 6 (i.e., Place the top of the Type R marker panel 1" below the module lid.) to the specifications.
A81C	<ul style="list-style-type: none"> • Relocated Note 7 (i.e., Place the Type P marker panel so that the bottom of the panel is at the bottom of the module.) to the specifications.
A86	<ul style="list-style-type: none"> • Deleted Note 4 (i.e., Line post spacing for wood post equals 12'-0" maximum. Line post spacing for metal post equals 10'-0" maximum.) because spacing already shown on the details.
A86A	<ul style="list-style-type: none"> • Deleted Note 2 (i.e., Line post spacing for wood post equals 12'-0" maximum. Line post spacing for metal post equals 10'-0" maximum.) because spacing already shown on the details.
A86B	<ul style="list-style-type: none"> • Relocated Note 7 (i.e., Reinforcing must comply with ASTM A 706.) to the specifications.
A88A	<ul style="list-style-type: none"> • Reformatted the slope in Note 9 from "1:20 (5.0%)" to "1V:20H (5.0%)".
"P" Series	
P2 and P3B	<ul style="list-style-type: none"> • Changed the dowel bar spacing to match the "Transverse Joint Dowel Bar Layout" detail on sheet P10. Extended the arrow for the lower JPCP lane to include the 2' section.
P4	<ul style="list-style-type: none"> • Added abbreviation "D" for Thickness of CRCP.

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P5A and P5B	<ul style="list-style-type: none"> Revised Note 6 (i.e., For longitudinal contraction and construction joint details, see Standard Plan P16.) to "For longitudinal contraction joint details, see Standard Plan P16."
P8	<ul style="list-style-type: none"> Added a date stamp on the Type II slab layout detail.
P10	<ul style="list-style-type: none"> Added "hardened" to new concrete description.
P12	<ul style="list-style-type: none"> Relocated Note 3 (i.e., All wire intersections must be resistance welded.) to the specifications.
P17	<ul style="list-style-type: none"> Relocated Note 3 (i.e., All wire intersections must be resistance welded.) to the specifications.
P30	<ul style="list-style-type: none"> Defined "D" dimension on the details as pavement thickness.
P31A	<ul style="list-style-type: none"> Added "U" dimension on the details for base thickness.
P31B	<ul style="list-style-type: none"> Revised sheet references in Notes 3 and 6.
P32A	<ul style="list-style-type: none"> Revised terminology for "expanded polyethylene" to "expanded polystyrene." Revised terminology for "bond breaker" to "base bond breaker."
P50 thru P53	<ul style="list-style-type: none"> Renumbered 2010 D99A thru D99D to 2015 P50 thru P53.
"D" Series	
D72	<ul style="list-style-type: none"> Revised call out for "Grate Type 600" to "Grate Type 24" in Type GOL detail.
D73A	<ul style="list-style-type: none"> Deleted reference to Standard Specification section 51-1.02 in Note 10.
D75C	<ul style="list-style-type: none"> Relocated Note 6 (i.e., All steel hardware to be galvanized after fabrication. All hardware to be aluminum if installed in aluminum pipe inlet. See Standard Specifications or Special Provisions.) to the specifications.
D77A	<ul style="list-style-type: none"> Deleted Note 2 (i.e., Contractor has the option of using cast ductile iron, cast carbon steel, welded, bolted, or cast end block grate.) because this is already covered in the specifications.
D87B	<ul style="list-style-type: none"> Relocated Note 3 (i.e., Plastic pipe and fittings used for overside drains shall be from one manufacturer for each installation.) to the specifications.
D87C	<ul style="list-style-type: none"> Deleted Note 6 (i.e., Concrete containing not less than 420 pounds of cementitious material per cubic yard.) because this is already covered in the specifications.
D93B	<ul style="list-style-type: none"> Relocated Note 5 (i.e., Use epoxy resin adhesive conforming to Standard Specification 95-2.03 for bonding slip joint pipe to cross drain.) to the specifications.
D98B	<ul style="list-style-type: none"> Deleted Note 5 (i.e., All coupling band connections shall be galvanized or coated in accordance with the Standard Specifications.) because this is already covered in the specifications.
D98C	<ul style="list-style-type: none"> Relocated first 2 sentences of Note 1 (i.e., Precast polymer concrete drain sections are available in non-sloped uniform depth sections 4-7/16" to 12" or in 0.6 percent pre-sloped sections with graduated depths from 4-7/16" to 12".) to the specifications.
"H" Series	
H1 thru H9	<ul style="list-style-type: none"> Renumbered 2010 H2 thru H9A to 2015 H1 thru H9.
"T" Series	
T1A	<ul style="list-style-type: none"> Relocated Note 3 (i.e., Temporary crash cushion arrays shall not encroach on the traveled way.) and Note 4 (i.e., Place the top of Type R marker panel 1" below the module lid.) to the specifications. Deleted Note 7 (i.e., Use of pallets is optional.) because this is already covered in the specifications.
T1B	<ul style="list-style-type: none"> Relocated Note 3 (i.e., Temporary crash cushion arrays shall not encroach on the traveled way.) and Note 4 (i.e., Place the Type P marker panel so that the bottom of the panel rests upon the pallet.) to the specifications. Deleted Note 7 (i.e., Use of pallets is optional.) because this is already covered in the specifications.
T2	<ul style="list-style-type: none"> Relocated Note 4 (i.e., If the fixed object or approach end of the temporary railing is less than 15'-0" from the edge of traveled way, a temporary crash cushion is required in a construction or work zone.), Note 5 (i.e., Temporary crash cushion arrays shall not encroach on the traveled way.), and Note 7 (i.e., Place the Type P marker panel so that the bottom of the panel rests upon the pallet and faces traffic.) to the specifications.

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T2 (cont'd)	<ul style="list-style-type: none"> Deleted Note 11 (i.e., Use of pallets is optional.) because this is already covered in the specifications.
T4	<ul style="list-style-type: none"> Relocated Note 6 (i.e., Openings in the screen of 3'-0" length shall be provided at 200' intervals.) to the specifications.
T10 thru T14	<ul style="list-style-type: none"> Deleted "Unless otherwise specified in the Special Provisions" and similar clauses.
T10A	<ul style="list-style-type: none"> Deleted Note 14 (i.e., When specified in the special provisions, a W20-2 "Detour Ahead" sign is to be used in place of the W20-3 "Freeway Closed Ahead" sign.) because this doesn't exist in the special provisions.
"B" Series	
B2-3	<ul style="list-style-type: none"> Deleted Note 2 (i.e., Lapped splices in spiral pile reinforcement shall be lapped at least 80 wire/bar diameters. Spiral pile reinforcement at splices and at ends shall be terminated with a 135° hook with a 6" tail hooked around a longitudinal bar.) because this is already covered in the specifications.
B2-5	<ul style="list-style-type: none"> Deleted Note 4 (i.e., Lapped splices in spiral pile reinforcement shall be lapped 80 wire diameters minimum. Spiral pile reinforcement at splices and at ends shall be terminated by a 135° hook with 6" tail hooked around a longitudinal bar or strand.) because this is already covered in the specifications. Relocated Note 8 (i.e., Alternative "W" piles shall not be used for corrosive environments.) to the specifications.
B2-8	<ul style="list-style-type: none"> Deleted Note 2 (i.e., Lapped splices in spiral pile reinforcement shall be lapped 80 wire diameters minimum. Spiral pile reinforcement at splices and at ends shall be terminated by a 135° hook with 6" tail hooked around a longitudinal bar or strand.) because this is already covered in the specifications. Relocated Note 4 (i.e., Alternative "W" piles shall not be used for corrosive environments.) to the specifications.
B7-5	<ul style="list-style-type: none"> Deleted note (i.e., Galvanize drain after fabrication.) because this is already covered in the specifications.
B11-47	<ul style="list-style-type: none"> Relocated Note 10 (i.e., Provide thimbles at all cable loops.) to the specifications.
B11-51	<ul style="list-style-type: none"> Revised sheet title from "Tubular Hand Railing" to "Tubular Handrailing." Relocated Note 2 (i.e., Rail tubes shall be shop bent or fabricated to fit horizontal curve when radius is less than 950'.) to the specifications.
B11-52	<ul style="list-style-type: none"> Relocated Note 6 (i.e., Provide thimbles at all cable loops.) to the specifications.
B11-65	<ul style="list-style-type: none"> Relocated Note 2 (i.e., Tubing shall be bent or fabricated to fit horizontal curve when radius is less than 895'.) to the specifications.
B11-69	<ul style="list-style-type: none"> Relocated Note 3 (i.e., Tubing shall be bent or fabricated to fit horizontal curve when radius is less than 896'.) to the specifications.
B14-3	<ul style="list-style-type: none"> Revised sheet reference in Note I.
B15-5	<ul style="list-style-type: none"> Deleted Note 2 (i.e., Lapped splices in spiral reinforcement shall be lapped at least 80 wire diameters. Spiral reinforcement at splices and at ends shall be terminated with a 135° hook with a 6" tail hooked around a longitudinal bar.) because this is already covered in the specifications.
B15-6	<ul style="list-style-type: none"> Deleted Note E (i.e., Concrete to be used for the barrier shall contain not less than 590 pounds of cementitious material per cubic yard.) because this is already covered in the specifications.
B15-8	<ul style="list-style-type: none"> Deleted Note 2 (i.e., Lapped splices in spiral reinforcement shall be lapped at least 80 wire diameters. Spiral reinforcement at splices and at ends shall be terminated with a 135° hook with a 6" tail hooked around a longitudinal bar.) because this is already covered in the specifications.
B15-15	<ul style="list-style-type: none"> Deleted Note 1 (i.e., Lapped splices in spiral reinforcement shall be lapped at least 80 wire diameters. Spiral reinforcement at splices and at ends shall be terminated with a 135° hook with a 6" tail hooked around a longitudinal bar.) because this is already covered in the specifications.

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"S" Series	
S31	<ul style="list-style-type: none"> • Reformatted table by using roman numerals.
S32	<ul style="list-style-type: none"> • Reformatted table by using roman numerals.
S50	<ul style="list-style-type: none"> • Revised sheet title from "Overhead Signs - Lightweight Extinguishable Message Sign and Flashing Beacons Mounting Details" to "Overhead Signs - Lightweight Extinguishable Message Sign and Flashing Beacons."
S88	<ul style="list-style-type: none"> • Revised 2nd sentence of Note 4 from "Retroreflective stick-ons are applied at time of installation." to "Apply during installation."
S92	<ul style="list-style-type: none"> • Deleted Note 4 (i.e., All rivets shall be 3/16" in diameter and anodized aluminum.) because this is already covered in the specifications.
"ES" Series	
ES-1A thru ES-1C	<ul style="list-style-type: none"> • Revised sheet title from "Electrical Systems (Legend and Abbreviations)" to "Electrical Systems (Legend)."
ES-1A	<ul style="list-style-type: none"> • Added the following symbols to the table titled "Commonly Used Symbols for United States Customary Units of Measurement": <ul style="list-style-type: none"> • kV kilovolt • kVA kilovolt amperes • kW kilowatt • mA milliamperes • VA Volt-ampere