

## 2008 Oregon Standard Specifications for Construction Summary of Changes

These summaries of changes between the 2002 Oregon Standard Specifications for Construction and the 2008 Oregon Standard Specifications for Construction are a high level overview of major changes. Additional changes may not be noted in these summaries, so the users of the specifications are responsible for knowing what is included in the specifications.

If you notice a major difference between the two books and it is not included in these summaries, and you think it will help others, please contact ODOT Specifications ([ODOTSpecifications@odot.state.or.us](mailto:ODOTSpecifications@odot.state.or.us)) and we can add to these summaries.

The summaries do not include any stand alone special provisions at this time.



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## PART 00100 – GENERAL REQUIREMENTS

### **SECTION 00110 - ORGANIZATION, CONVENTIONS, ABBREVIATIONS, AND DEFINITIONS**

Since the Standards are now in 2 volumes, 00110.00, 00110.05 and the definitions were changed to accommodate this.

00110.05 Conventions and Grammar has the term “allowed” rather than “permitted” which is intended to be used throughout the Standards, unless an actual permit is referenced.

Added Bid Documents, Days, Supplier, and Ton to definitions list in 0010.20.

### **SECTION 00120 - BIDDING REQUIREMENTS AND PROCEDURES**

The option of electronic bidding has been added into Standard from the special provisions.

00120.30 the actual website address will be listed in the special provisions.

### **SECTION 00130 - AWARD AND EXECUTION OF CONTRACT**

00130.10 the actual website address will be listed in the special provisions.

Note that 00130.80 has an additional requirement for the public works bond before On-Site work is allowed. (see 00170.10(f), 00170.20, & 00180.21)

Otherwise, this whole section remains essentially the same, with only minor wording or formatting changes.

### **SECTION 00140 - SCOPE OF WORK**

00140.40 now has classed the differing site conditions as Type 1 or Type 2.

The ORS excerpt from 00140.50 was removed. Legal requirements are still in effect and have not changed

Otherwise this whole section is essentially the same.

### **SECTION 00150 - CONTROL OF WORK**

00150.10(a) two items have been added to the Order of Precedence list:

- Contract Change Orders have the highest precedence

- All other contract documents not listed have the lowest precedence

00150.20(b) Inspection facilities now include “shoring”

00150.40(b) the term “superintendent” has been replaced with the concept of “a single designated representative responsible for the Project”.

00150.40(c) Use of Consultants subsection is deleted.

The OAR & ORS for Utility Notification excerpts from 00150.50(e) were removed. Legal requirements are still in effect and have not changed

00150.94 Post-Construction Review added (optional not mandatory).

### **SECTION 00160 - SOURCE OF MATERIALS**

00160.10 paragraph order has been changed but content remains the same, except for the excess materials sentence at the end of subsection 00160.10(b) which is modified to “sole discretion of the Agency (see 00195.80)” from “sole discretion of the Engineer”.

00160.40 now contains a reference to special provision 00235 for details regarding sources.

### **SECTION 00165 - QUALITY OF MATERIALS**

00165.20 now more clearly delineates the material specifications and test methods required for field tested and non-field tested materials.

00165.30(c) last paragraph changed from “acceptance testing” to “verification testing”, and incorporated non-specification materials are to be evaluated according to 00165.01 and 00150.25.

00165.50(c) now allows isolation of partial or entire sublots.

### **SECTION 00170 - LEGAL RELATIONS AND RESPONSIBILITIES**

List of other agencies in 00170.01 has changed and expanded to include Tribal Governments, the Columbia River Gorge Commission, and Lane Regional Air Pollution Authority.

00170.05 has added another requirement when dealing with Antitrust Rights.

00170.10(f) and 00170.20 have been added due to the additional requirement for a public works bond (see 00130.80 & 00180.21)

The ORS excerpts from 00170.63 and 00170.65 were removed. Legal requirements are still in effect and have not changed

00170.65(a) additional language added to deal with 25% retainage for failure to submit certified payroll statements for the Contractor and all subcontractors. (see 00195.50(b) and 00195.50(e))

00170.65(b) contains modified language requiring the Contractor to compare Davis/Bacon wages and BOLI wages even on federal aid projects.

00170.65(e) has changed the Owner/Operator rules – SSN is no longer required, but there is additional data required.

00170.70 insurance coverage has been added into Standard from the special provisions.

00170.85(b) contains extensive changes in warranties. FHWA prohibits the use of the project warranty in 00170.85(b-2) on all federal aid projects.

## **SECTION 00180 - PROSECUTION AND PROGRESS**

00180.21(d) subcontracts must contain language about the public works bond and the payment of specified minimum wages. (see 00130.80, 00170.10(f) & 00170.20)

00180.31 the “Engineers decisions ... are final” has been moved up to the introductory paragraph.

00180.33 is deleted since ODOT does not work in metric units.

Throughout the scheduling specification (00180.41) “approved Project schedule” has been replaced with “accepted Project schedule”.

00180.41 in Type “A”, “B”, and “C” schedules the requirement to show completion of utility relocation work has been added.

00180.41(b-1) the bullet on priority and sequencing has been rewritten as a paragraph to clear up what is required in the schedule submission. In addition “ten workdays” is changed to “10 Calendar Days”.

00180.41(b-2) “seven workdays after submission” has been changed to “10 Calendar Days after submission”.

00180.41(c) Type “C” schedule has been extensively modified and now includes the requirement of an electronic schedule submission. It also requires a monthly Project narrative.

00180.41(e) has been modified to ensure Contract Time is adjusted “using the most recently accepted Project Work schedule.”

00180.41(h) the Project narrative has been added to the list of required submittals for withholding payments, or suspensions of Work.

00180.42 some minor wording changes, but content is essentially the same.

00180.50(d) wording changes to clear up the ideas of Calendar Day Calculation and Fixed Date Calculation.

00180.50(g) specifically allows the Agency to restart the time charges due to the Contractor's failure to timely complete the task list on the Second Notification.

00180.60 includes the requirement of the Contractor to state whether or not he/she expects to accelerate as a result of a delay (and potential delay claim).

00180.70(b) uses the concept of "a single designated representative responsible for the Project".

00180.80(c) first bullet changed to include "for comparison with the last revision of the Project Work schedule" and the second bullet changes submittal time to 15 Days (not 21 Days) for consistency. (see 00199.30(b))

00180.80(d) bullet now reads "Delays that do not affect the specified or Adjusted Contract Time" rather than "Delays that do not affect the Contract completion date". Two additional bullets have been added to the list dealing with different areas of material sources and substitution of equipment.

00180.80(e) fundamental change in Contract Time adjustment review. If the Contractor disagrees with the Engineer's findings, the Contractor may request a review according to 00199.40. (see 00199.00 & 00199.40)

## **SECTION 00190 - MEASUREMENT OF PAY QUANTITIES**

00190.00 the International System of Units is no longer used in ODOT Contracts.

00190.10 has been rewritten and expanded to include each of the different basis commonly referenced in the measurement sections of the Standard Specifications.

No other changes made to this section.

## **SECTION 00195 - PAYMENT**

00195.12(b) the actual website address will be listed in the special provisions.

00195.50(b) additional items that are exempt from retainage are escalation/de-escalation clauses, bonuses, or others decided by ODOT. The requirement for 25% retainage for failure of the Contractor to submit certified statements is also added. (see below and 00170.65(a))

00195.50(c) deleted the retainage option that required the Contractor request that retainage be deposited in an interest bearing account – it is automatically so deposited.

00195.50 (c-3) deleted certain types of bonds and securities for retainage.

00195.50(e) adds required language concerning the 25% retainage for failure to submit certified payroll statements. (see above and 00170.65(a))

No other changes made to this section.

### **SECTION 00196 - PAYMENT FOR EXTRA WORK**

No changes made to this section.

### **SECTION 00197 - PAYMENT FOR FORCE ACCOUNT WORK**

00197.20 the publisher for the “Blue Books” has changed but not the telephone number.

### **SECTION 00199 - DISAGREEMENTS, PROTESTS, AND CLAIMS**

00199.00 has been, and throughout the entire Section, edited to include Contract Time in the normal claim process, going through the PM review, Region review and the Contract Administration Engineer review. (see 00180.80(e) & below)

00199.30(b) expanded to delineate the requirements for a complete claim that can be analyzed by the Agency. Requires a certain format be submitted.

00199.40 has been rewritten to accommodate the claims for additional compensation, additional time or both. (see 00180.80(e) & above)

## PART 00200 – TEMPORARY FEATURES AND APPURTENANCES

### **SECTION 00205 - FIELD LABORATORY, WEIGHHOUSE, ETC.**

This section remains essentially intact, with only minor wording or formatting changes.

### **SECTION 00210 - MOBILIZATION**

This section remains essentially intact, with only minor wording or formatting changes.

### **SECTION 00220 - ACCOMMODATIONS FOR PUBLIC TRAFFIC**

A subsection for work zone notifications including Over-Dimensional Vehicle Restrictions and Road Closures was added.

A subsection (**00220.40(e) Lane Restrictions**) has been added, standardizing much of the language that was in the Special Provisions.

Adds requirements for winter shutdowns.

### **SECTION 00225 - WORK ZONE TRAFFIC CONTROL**

References to the standard drawings were included throughout this section, but the particular drawing number was not included.

Standardized signing requirements were added to 00225.02.

TOD signs and a striping plan were added to the requirements for the Traffic Control Plan.

Wording was added strengthening the requirements for traffic control during cold planning and paving.

Acceptance requirements for Traffic Control Devices was made more stringent.

The Project superintendent may not be the designated TCS.

Temporary concrete barrier must be pinned under certain circumstances.

A subsection has been added for Reflective Barrier Panels.

The proper procedure for placing temporary striping prior to permanent durable striping is delineated.

A subsection detailing the requirements for portable traffic signals has been added.

A subsection for Flagger Station Lighting has been added, along with corresponding bid items.

Maintenance for the TCD's through the life of the project has been emphasized with the addition of subsections for temporary concrete barrier, temporary traffic signals, and flagger station lighting.

Striping and Stripe Removal Mobilization has been removed as a bid item.

Flagger Station Lighting has been added as a bid item.

### **SECTION 00240 - TEMPORARY DRAINAGE FACILITIES**

This section remains essentially intact, with only minor wording or formatting changes.

### **SECTION 00280 - EROSION AND SEDIMENT CONTROL**

Requirements for the Erosion and Sediment Control Plan are laid out in greater detail and are much stronger.

This Section has been arranged according to the function of the Erosion Control Device. The various devices are categorized into the Best Management Practices (BMP) for three different areas:

1. Erosion Prevention BMP
2. Runoff Control BMP
3. Sediment Control BMP

This layout is followed in the portions of the Section for Materials, Construction, and Payment. However, there does not appear to be a significant change in content for these items.

A section entitled Labor has been added, primarily detailing the duties of the Erosion and Sediment Control Manager.

The payment schedule for the Lump Sum item "Erosion Control" has been altered.

### **SECTION 00290 - ENVIRONMENTAL PROTECTION**

The list of regulating agencies have been removed from this Section and moved to 00170.01.

Staging and Disposal Site requirements have been added.

The subsection regarding solid waste management has been enlarged and clarified.

The subsection regarding hazardous waste management has been expanded and is very much strengthened.

A requirement for the Contractor to have the services of a professional on-call spill response team has been added.

Air pollution control measures defined and made stronger.

Language has been added regarding migratory birds, bats, and plant habitat.

The subsection regarding wetlands has been expanded and strengthened.

Much of the language contained in the Special Provisions regarding Cultural Resources has been moved to this version of the Specifications.

The definition for payment for the lump sum item "Pollution Control Plan" has been greatly expanded. The items included in the list make this a much broader issue. Also, a payment schedule has been included.

## PART 00300 – ROADWORK

### **SECTION 00310 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS**

Disposal of material is now done according to 00290.20(c).

The subsection **00310.93 Incidental Basis** has been removed. The paragraph for incidental basis is added under 00310.90.

### **SECTION 00320 - CLEARING AND GRUBBING**

Disposal of material is now done according to 00290.20(c).

The subsection **00320.91 Incidental Basis** has been removed. The paragraph for incidental basis is added under 00320.90.

### **SECTION 00330 - EARTHWORK**

Blasting requirements are removed and referenced to Section 00335.

The deflection requirement for Moisture-Density Testable Materials has been expanded.

A subsection for compaction requirements for small irregular fill areas has been added.

A subsection for daily progress reports for projects with 2,500 cubic yards of fill has been added.

### **SECTION 00331 - SUBGRADE STABILIZATION**

This section remains essentially intact, with only minor wording or formatting changes.

### **SECTION 00332 - SURFACING STABILIZATION**

This section has been moved to the Wearing Surfaces portion of the book and has been renamed **00748 Asphalt Concrete Pavement Repair**.

### **SECTION 00335 - BLASTING METHODS AND PROTECTION OF EXCAVATION BACKSLOPES**

A Materials section has been added which limits the age of the explosives.

Blasting notification requirements have been expanded.

The blasting plan review has also been expanded.

A blasting report has been added as a requirement after each blast.

#### **SECTION 00340 - WATERING**

The statement regarding adjudicated water that has been in the Special Provisions has been added to this section.

#### **SECTION 00344 - TREATED SUBGRADE**

This section remains essentially intact, with only minor wording or formatting changes.

#### **SECTION 00350 - GEOSYNTHETIC INSTALLATION**

This section remains essentially intact, with only minor wording or formatting changes.

#### **SECTION 00370 - FINISHING ROADBEDS**

The subsection **00370.91 Incidental Basis** has been removed. The paragraph for incidental basis is added under 00370.90.

#### **SECTION 00390 - RIPRAP PROTECTION**

This section remains essentially intact, with only minor wording or formatting changes.

#### **SECTION 00396 - SHOTCRETE SLOPE STABILIZATION**

This section remains essentially intact, with only minor wording or formatting changes.

#### **SECTION 00398 - ROCK SLOPE STABILIZATION AND REINFORCEMENT**

This is a new Section based on an existing unique special provision.

PART 00400 – DRAINAGE AND SEWERS

**SECTION 00405 - TRENCH EXCAVATION, BEDDING AND BACKFILL**

This section remains essentially intact, with only minor wording or formatting changes.

Subsection **00405.92 Incidental Basis** has been removed.

**SECTION 00406 - TUNNELING, BORING AND JACKING**

This section remains essentially intact, with only minor wording or formatting changes.

**SECTION 00410 - PIPE LINING**

This is a new Section. Study it carefully!

**SECTION 00420 - SALVAGING PIPE**

This section remains essentially intact, with only minor wording or formatting changes.

**SECTION 00430 - SUBSURFACE DRAINS**

Reclaimed glass has been removed as a granular drain backfill material.

**SECTION 00432 - WEARING SURFACE DRAINS**

This is a new Section which previously has been available as a Special Provision.

**SECTION 00435 - PREFABRICATED VERTICAL DRAINS**

This is an old Section with a new name. It was in the 2002 Standard Specifications as **00435 Wick Drains**.

With the exception of the name change, this Section remains essentially unchanged.

**SECTION 00440 - COMMERCIAL GRADE CONCRETE**

This is now a stand alone specification section.

Applicable materials sections for commercial grade concrete were added.

The compressive strength requirement has been lowered from 3300 psi to 3000 psi.

#### **SECTION 00442 - CONTROLLED LOW STRENGTH MATERIALS**

The 28-day compressive strength was lowered from 150 psi – 250 psi to 100 psi – 200 psi.

#### **SECTION 00445 - SANITARY, STORM, CULVERT, SIPHON AND IRRIGATION PIPE**

Solid Wall Polyethylene Pipe has been added.

Tracer wire installation procedures were made less stringent.

Deflection testing for flexible pipe may now be conducted concurrently with video inspection.

The multiple payment sections have been rolled into one under 00445.91.

#### **SECTION 00450 - STRUCTURAL PLATE SHAPED STRUCTURES**

This section has a new name. The section remains essentially intact, with only minor wording or formatting changes. The measurement and payment sections are set up differently, but the content remains unchanged.

#### **SECTION 00460 - PAVED CULVERT END SLOPES**

This section remains essentially intact, with only minor wording or formatting changes.

#### **SECTION 00470 - MANHOLES, CATCH BASINS AND INLETS**

All references to concrete sumps have been removed.

#### **SECTION 00475 - DRAIN WELLS**

This section remains essentially intact, with only minor wording or formatting changes.

### **SECTION 00480 - DRAINAGE CURBS**

This section remains essentially intact, with only minor wording or formatting changes.

### **SECTION 00490 - WORK ON EXISTING SEWERS AND STRUCTURES**

This section remains essentially intact, with only minor wording or formatting changes.

### **SECTION 00495 - TRENCH RESURFACING**

This section remains essentially intact, with only minor wording or formatting changes.

PART 00500 – BRIDGES

**SECTION 00501 - BRIDGE REMOVAL**

00501.40 Removal and Disposal references Section 00290 and 00310.

**SECTION 00503 - BRIDGE DECK COLD PAVEMENT REMOVAL**

This is a new section, removing bridge deck cold plane pavement removal from Section 00620 and placing it here.

The requirements for removal are made more stringent, including control of work, scheduling, and disposal of materials.

**SECTION 00510 - STRUCTURE EXCAVATION AND BACKFILL**

Backfill gradation requirements are moved to the Materials portion of the Manual.

Language was added stating that cofferdams and shoring will be designed in accordance with the Bridge Design & Drafting Manual.

Granular Wall Backfill material was changed to meet the requirements of 02630.11 (Open-Graded Aggregate).

Granular Structure Backfill material was changed to meet the requirements of 02630.10 (Dense-Graded Aggregate).

**SECTION 00512 - DRILLED SHAFTS**

The materials requirement for concrete was moved to Section 02001.

CSL access tubes were added to both the Materials and Construction sections.

The requirements for personnel in subsection 00512.30 were extended.

The requirements for submittals in subsection 00512.40 were extended.

A Drill Shaft Coordination meeting was added.

The Drilled Shaft Testing and Acceptance was made more rigorous.

Several measurement and payment items were added.

## **SECTION 00520 - DRIVEN PILES**

All references to the word “capacity” were changed to “resistance” and the word “ultimate” was changed to “nominal”.

A hydraulic impact hammer was added to 00520.20(a).

The Pile Hammer Requirements Table in 00520.20(d-2) was modified.

The Wave Equation Method was added in 00520.20(d-3).

Piles are now required to fully penetrate through embankments at bridge ends.

Measurement and payment items were added for Preboring Piles and Jetting Piles.

In 00520.42 Nominal Pile Bearing Resistance the resistance equation was changed from the ODOT Gates equation to the FHWA Gates Equation.

## **SECTION 00530 - STEEL REINFORCEMENT FOR CONCRETE**

A subsection for Concrete Inserts was added (00530.14).

Additional requirements were added for storing epoxy coated rebar.

Additional language was added concerning welded splices.

The bar chart was replaced with a reference to CRSI.

## **SECTION 00535 - RESIN BONDED ANCHOR SYSTEMS**

The testing requirements for the materials were relaxed to match those from the manufacturer.

## **SECTION 00540 - STRUCTURAL CONCRETE**

The section name was changed from “Concrete Bridges” to “Structural Concrete”.

The requirements for batching and hauling were removed from subsections 00540.20 and 00540.21.

Work bridges were added to subsection 00540.29.

The QCT requirements were moved to 02001.50.

Subsection 00540.46 dealing with mixing and batching materials was removed.

Subsection 00540.47 dealing with transporting concrete was greatly condensed.

Several of the concrete strength definitions were changed.

Several modifications were made in the deck cure.

The surface finish texturing for the deck will be performed by saw cutting (00540.50(c)).

Concrete stain has been added as an alternate surface finish.

Crack inspection and sealing has been added as the final step before acceptance of a bridge deck.

Concrete pay items have been divided into areas by use. A bid item has been added for saw cut texturing.

#### **SECTION 00545 - REINFORCED CONCRETE BRIDGE END PANELS**

The description for pipe under end panels in subsection 00545.10 has been expanded.

The surface finish texturing for the end panels will be performed by saw cutting. (00545.42).

#### **SECTION 00550 - PRECAST PRESTRESSED CONCRETE MEMBERS**

The concrete mix design, QCT, batching and hauling requirements moved to Section 02001.

Subsection 00550.30 has been removed. That information is in Section 02001.

References to concrete piling were removed.

Lifting points are to be determined by the manufacturer.

A subsection was added on erection stability.

#### **SECTION 00555 - POST TENSIONING**

Subsection 00555.03 Anchoring Devices has been greatly reduced, citing AASHTO requirements.

Grout trial batch processes are more detailed.

Requirements for a Post Tensioning Supervisor and Grouting Technician were added.

Test reports for anchoring devices are now required.

#### **SECTION 00560 - STRUCTURAL STEEL BRIDGES**

This section remains essentially intact, with only minor wording or formatting changes.

#### **SECTION 00570 - TIMBER STRUCTURES**

Language was added requiring that bolt holes need to be drilled larger than the bolt.

Measurement references for deck covering materials were added.

#### **SECTION 00581 - BRIDGE DRAINAGE SYSTEMS**

This section remains essentially intact, with only minor wording or formatting changes.

#### **SECTION 00582 - BRIDGE BEARINGS**

Specific design requirements were removed and references were made to AASHTO.

Guide bars were added.

The limiting ring in Disk Bearings was eliminated.

References to coatings for steel bearings moved to Section oo594.

#### **SECTION 00583 - ELECTRICAL CONDUIT IN STRUCTURES**

This section remains essentially intact, with only minor wording or formatting changes.

#### **SECTION 00584 - ELASTOMERIC CONCRETE NOSING**

Requirements were strengthened for the manufactures representative.

A manufacturers warranty was added.

#### **SECTION 00585 - EXPANSION JOINTS**

The various installation procedures were removed and the manufacturer's installation instructions were added.

The manufacturer's representative was required to be on site during installation.

A manufacturer's warranty was added.

The nominal depth for asphaltic plug joints changed to 2¼".

Asphaltic plug joint bid items were added.

### **SECTION 00587 - BRIDGE RAILS**

This section remains essentially intact, with only minor wording or formatting changes.

### **SECTION 00591 - WATERPROOFING MEMBRANE**

The definition of "warranted" vs. "warrantable" was clarified.

The requirements for the Manufacturer's Representative were expanded, including allowing a Contractor's employee to act as the representative.

The warranty details were expanded.

A 25% retainage was added until the warranty is received.

### **SECTION 00593 - POWDER COATING METAL STRUCTURES**

This is a new Section.

### **SECTION 00594 - PREPARING AND COATING METAL STRUCTURES**

The definition of structural steel was changed to metal structure to cover most paint projects.

Bridge rail, joints, and bearings were added to the miscellaneous metal definition.

Subsections were added for containment and waste handling.

FHWA color coding was specified for weathering and non-weathering steel.

The color coding was removed and refers to the QPL.

In subsection 00594.11(e) the numerous lists of specifications were eliminated.

An inspection schedule was added.

Water jetting was added as an option for surface preparation.

The method of payment was changed / clarified by creating five separate bid items.

### **SECTION 00595 - REINFORCED CONCRETE BOX CULVERTS**

This section remains essentially intact, with only minor wording or formatting changes.

### **SECTION 00596 - RETAINING WALLS**

The three definitions for classes of MSE Granular Backfill were deleted.

MSE Granular backfill requirements (00596.11(g)) have changed.

00596.41 - 100% compaction is required for backfill.

### **SECTION 00597 - SOUND WALLS**

This section remains essentially intact, with only minor wording or formatting changes.

### **SECTION 00599 - CONCRETE SLOPE PAVING**

This section remains essentially intact, with only minor wording or formatting changes.

PART 00600 – BASES

**SECTION 00610 - RECONDITIONING EXISTING ROADWAY**

This section remains essentially intact, with only minor wording or formatting changes.

Subsection **00610.91 Incidental Basis** has been removed. The incidental basis is now covered under 00610.90.

**SECTION 00620 - COLD PLANE PAVEMENT REMOVAL**

All references to removal of surfacings on bridge decks has been moved to a new Section **00503 Bridge Deck Cold Plane Pavement Removal**.

**SECTION 00635 - GRID ROLLED AGGREGATE SUBBASE**

This is a new Section which previously has been available as a Special Provision.

**SECTION 00640 - AGGREGATE BASE AND SHOULDERS**

This section remains essentially intact, with only minor wording or formatting changes.

**SECTION 00641 - AGGREGATE SUBBASE, BASE, AND SHOULDERS**

Requirements for aggregate subbase are now in 00641.10(b).

A visual compaction requirement for open-graded base aggregate has been added.

Two bid items for plant mix aggregate base have been added.

**SECTION 00680 - STOCKPILED AGGREGATES**

Measurement and payment sections slightly modified.

## PART 00700 – WEARING SURFACES

### **SECTION 00705 - ASPHALT PRIME COAT AND EMULSIFIED ASPHALT FOG COAT**

This section remains essentially intact, with only minor wording or formatting changes.

MC-250 asphalt removed from 00705.11(b) Prime Coats list of acceptable materials.

### **SECTION 00706 - EMULSIFIED ASPHALT SLURRY SEAL SURFACING**

Subsections 00705.23 and 00705.48, rollers and rolling – language changed to require the need for rolling to be specified in the project special provisions.

### **SECTION 00710 - SINGLE APPLICATION EMULSIFIED ASPHALT SURFACE TREATMENT**

The steel roller is now required on all applications (00710.23).

### **SECTION 00715 - MULTIPLE APPLICATION EMULSIFIED ASPHALT SURFACE TREATMENT**

The list of emulsified asphalt (00715.11(a & b)) allowed is reduced.

### **SECTION 00730 - EMULSIFIED ASPHALT TACK COAT**

The name of the section has been changed from “Asphalt Tack Coat”.

### **SECTION 00735 - EMULSIFIED ASPHALT CONCRETE PAVEMENT**

The gradation for the choke aggregate has been altered.

### **SECTION 00744 - MINOR HOT MIXED ASPHALT CONCRETE (MHMAC) PAVEMENT**

The name of the section has been changed from “Hot Mixed Asphalt Concrete (HMAC) Pavement”. The addition of the word “Minor” occurs throughout the Section.

Aggregate properties (00744.10) were modified to be more similar to requirements in Section 00745. The test for fractured faces has been added to the list of tests required.

The JMF design must have been developed or verified within 3 years, reduced from 5 years (00744.13).

The design method for the JMF has been changed from Marshall to Superpave. Quality Control Personnel has been added (00744.30).

The season and temperature requirements are made clearer (00744.40).

The requirement for correction of defects has been added to this Section.

The references for construction of longitudinal and transverse joints have been replaced by the required procedures.

### **SECTION 00745 - HOT MIXED ASPHALT CONCRETE (HMAC)**

RAP material is now allowed in Level 4 pavements (00745.03).

PG 64-22 or PG 64-28 may be substituted under certain circumstances (00745.11).

The design method for the JMF for Level 1 HMAC has been changed from Marshall to Superpave.

### **SECTION 00746 - CRACK SEALING FLEXIBLE PAVEMENTS**

The sealant must now meet the requirements of ASTM D 6690.

Measurement and payment may now be done by either length (foot) or weight (pound).

### **SECTION 00748 - ASPHALT CONCRETE PAVEMENT REPAIR**

This is a new Section to this portion of the Specifications. It was originally Section **00332 Surfacing Stabilization**.

Other than the name and section number change, this Section is essentially unchanged.

### **SECTION 00749 - MISCELLANEOUS ASPHALT CONCRETE STRUCTURES**

The compaction requirements were clarified (00749.45).

Other than that, this section remains essentially intact, with only minor wording or formatting changes.

## **SECTION 00755 - CONTINUOUSLY REINFORCED CONCRETE PAVEMENT**

References to concrete mixture and testing have been moved to Section 02001.

The profilometer has been added to the smoothness testing equipment as an option to use in smoothness testing.

The list of CCT and QCT duties have been moved to Section 02001.

Batching and mixing requirements have been moved to 02001.40.

## **SECTION 00756 - PLAIN CONCRETE PAVEMENT**

References to concrete mixture and testing moved to Section 02001.

The profilometer has been added to the smoothness testing equipment as an option to use when graphic profile testing is required.

The proof rod specification has been clarified.

The list of CCT and QCT duties have been moved to Section 02001.

Batching and mixing requirements have been moved to 02001.40.

## **SECTION 00759 - MISCELLANEOUS PORTLAND CEMENT CONCRETE STRUCTURES**

The requirement for the truncated dome for sidewalk ramps has been added.

Concrete Bus Shelter Pads and Concrete Mowing Strip have been added as bid items.

PART 00800 – PERMANENT TRAFFIC SAFETY AND GUIDANCE DEVICES

**SECTION 00810 - METAL GUARDRAIL**

This section remains essentially intact, with only minor wording or formatting changes.

The only real change is a modification to the measurement subsection, involving not listing the individual items to be measured on a unit basis.

**SECTION 00811 - CABLE BARRIER**

This is a new Section which was previously available as a Unique Special Provision.

**SECTION 00812 - ADJUSTING GUARDRAIL**

This section remains essentially intact, with only minor wording or formatting changes.

**SECTION 00815 - BOLLARDS**

This section remains essentially intact, with only minor wording or formatting changes.

**SECTION 00820 - CONCRETE BARRIER**

Barrier markers and reflective sheeting have been removed from the Specifications.

The two bid items for reflectorized barrier have been removed.

**SECTION 00822 - GLARE SHIELDS**

This section remains essentially intact, with only minor wording or formatting changes.

**SECTION 00830 - IMPACT ATTENUATORS**

Instead of just referring to the QPL, the materials section now has a list of ten different types of attenuators based on several different factors.

## **SECTION 00840 - DELINEATORS AND MILEPOST MARKER POSTS**

The production, surface preparation, testing and acceptance of the delineators have been greatly expanded.

Requirements have been added regarding delineators on guardrail and concrete barrier.

## **SECTION 00850 - COMMON PROVISIONS FOR PAVEMENT MARKINGS**

This is an entirely new Section that deals with pavement markings in the same way that Section 00960 deals with electrical items. It gives the requirements for determining the appropriate materials, equipment to use, people required to be on-site, preparation, layout and installation of the various materials, and the Warranties required.

There are no measurement or payment items listed with this Section. These items come with the various following Sections.

## **SECTION 00851 - PAVEMENT MARKING REMOVAL**

This was Section 00863 in the 2002 Standard Specifications. The only significant change is the addition of measurement and payment for Pavement Bar Removal.

## **SECTION 00855 - PAVEMENT MARKERS**

This was Section 00860 in the 2002 Standard Specifications.

The materials section has been removed and is covered in 00850.

The payment section is changed in that the bid item list has expanded.

## **SECTION 00856 - SURFACE MOUNTED TUBULAR MARKERS**

This is a new Section which previously has been available as a Special Provision (previously SP00866).

## **SECTION 00857 - RUMBLE STRIPS**

This was Section 00865 in the 2002 Standard Specifications. The Construction section has several items deleted.

Transverse Rumble Strips have been added to this Section in both the equipment and payment portions.

#### **SECTION 00860 - LONGITUDINAL PAVEMENT MARKINGS - PAINT**

This was Section 00861 in the 2002 Standard Specifications. This Section looks entirely different, with most of the information having been moved to 00850. Basically, it consists of installation procedures, measurement, and payment.

The pay item has been changed to “Longitudinal Pavement Markings - Paint”.

#### **SECTION 00865 - LONGITUDINAL PAVEMENT MARKINGS - DURABLE**

This was Section 00862 in the 2002 Standard Specifications. This Section looks entirely different, with most of the information having been moved to 00850. Basically, it consists of installation procedures, measurement, and payment.

The pay items have been expanded to include wet weather and marking tape items.

#### **SECTION 00866 - LONGITUDINAL PAVEMENT MARKINGS - HIGH PERFORMANCE**

This is a new Section. It has been included previously by Special Provision (old SP00864).

#### **SECTION 00867 - TRANSVERSE PAVEMENT MARKINGS - LEGENDS AND BARS**

This was Section 00850 in the 2002 Standard Specifications. This Section looks entirely different, with most of the information having been moved to 00850. Basically, it consists of installation procedures, warranty requirements, measurement, and payment.

PART 00900 – PERMANENT TRAFFIC CONTROL AND ILLUMINATION SYSTEMS

**SECTION 00905 - REMOVAL AND REINSTALLATION OF EXISTING SIGNS**

This section remains essentially intact, with only minor wording or formatting changes.

**SECTION 00910 - WOOD SIGN POSTS**

This section remains essentially intact, with only minor wording or formatting changes.

**SECTION 00920 - SIGN SUPPORT FOOTINGS**

This section remains essentially intact, with only minor wording or formatting changes.

A requirement was added regarding removing forms and subsequent loading.

**SECTION 00930 - METAL SIGN SUPPORTS**

The definitions section has been modified.

Working drawings are required for more types of structures.

The pay item schedule has been altered, with several items removed and adjustable sign mounts paid by lump sum.

**SECTION 00940 - SIGNS**

The long list of sign types has been moved to 02910.02.

The alternate materials option has been removed.

**SECTION 00941 - SIGN COVERS**

This section remains essentially intact, with only minor wording or formatting changes.

**SECTION 00950 - REMOVAL OF ELECTRICAL SYSTEMS**

This is an old Section with a new name. It was in the 2002 Standard Specifications as 00950 Removal and Reinstallation of Highway Illumination and Traffic Signals.

All references to salvaging, stockpiling, and reinstalling existing systems have been removed from the entire Section.

The payment schedule has been changed. Payment is either by lump sum or is incidental depending on circumstances.

### **SECTION 00960 - COMMON PROVISION FOR ELECTRICAL SYSTEMS**

This is an old Section with a new name. It was in the 2002 Standard Specifications as 00960 Common Provisions for Highway Illumination and Traffic Signals.

The list of materials requirements has been moved to Section 02920.

Conduit in foundations must be fiberglass.

Conduit elbows must be fiberglass.

Placing conduit under paved surfaces by jacking has been eliminated as an option.

The requirements for conduit used in electrical installations have been greatly modified. Both materials and installation requirements have changed.

Additional subsections for cable and wire, wiring practices, coating, electrical service, grounding and bonding, and electrical energy have been included.

Structural requirements have been removed from this Section and moved to a newly created Section 00962 Metal Illumination and Traffic Signal Supports.

### **SECTION 00962 - METAL ILLUMINATION AND TRAFFIC SIGNAL SUPPORTS**

This is a new Section that removes the structural components from Section 00960 and delineates them here.

### **SECTION 00963 - SIGNAL SUPPORT DRILLED SHAFTS**

This is a new Section modifying Section 00512 drilled shafts for signal foundation construction.

### **SECTION 00970 - HIGHWAY ILLUMINATION**

Cable and wiring requirements have been altered slightly.

The mounting details for the Photocontrol Electronic Relay are changed slightly.

Double arm luminaire should be fed separately from the pole base.

### **SECTION 00980 - SIGN ILLUMINATION**

This section has been removed from the 2008 Standard Specifications.

### **SECTION 00990 - TRAFFIC SIGNALS**

The materials list has been moved to Section 02920.

Cable and wire installation instructions have been minimized.

The subsection dealing with the interconnect cable has been formatted differently, making it easier to follow. It appears that the content has not been altered significantly.

The subsection dealing with cabinets has been greatly reduced, removing most of the installation instructions.

The Audible Pedestrian Signal has been removed from this version of the Specifications.

The number of twisted wires in a detector loop saw cut has been limited to two pairs.

Advance warning signs and interior illuminated signs have been eliminated from the Traffic Control Signs subsection.

Only one wire termination in each terminal block end is allowed. Additional taps via factory jumper between terminal blocks.

Loop the feeder to loop wire splice with silicon wire nuts inside a "klik-it" enclosure.

Subsection 00990.48 Coating has been removed from this Section.

The details of the controller equipment testing are removed.

Measurement and payment on the unit basis has been removed as an option. All items will be paid on the lump sum basis.

## PART 01000 – RIGHT-OF-WAY DEVELOPMENT AND CONTROL

### **SECTION 01030 - SEEDING**

The list of publications regarding Noxious Weeds has been eliminated.

More definitions were added to subsection 01030.02.

The labeling requirements for seeds have been strengthened.

Native plant seeding has been added as a type of seed mix.

A requirement for a Weed Control Coordinator has been added.

Weed control has been greatly emphasized in this edition of the Specifications.

A subsection for optional seeding and mulching for small areas has been added.

Measurement and payment by lump sum has been eliminated.

### **SECTION 01040 - PLANTING**

Moisture retention chemicals have been added.

Groundcover planting establishment inspection procedures have been added.

The measurement and payment subsections were formatted differently.

The pay schedule during the plant establishment period is more stringent.

### **SECTION 01050 - FENCES**

Rock protection fences and slope protection mats have been removed from this Section. They are now covered in new Section 00398.

### **SECTION 01070 - MAILBOX SUPPORTS**

This section remains essentially intact, with only minor wording or formatting changes.

### **SECTION 01090 - GRAVEL BEDS AND BLANKETS**

This section remains essentially intact, with only minor wording or formatting changes.

PART 01100 – WATER SUPPLY SYSTEMS

**SECTION 01120 – IRRIGATION SYSTEMS**

Added detectable wire to section 01120.21.

Additional clarification added to 01120.70 – As-built Plans and System Operation.

**SECTION 01140 - POTABLE WATER PIPE AND FITTINGS**

Added section for Water and Sanitary Sewer separation (01140.41(f)).

Measurement and Payment items have been modified.

**SECTION 01150 - POTABLE WATER VALVES**

This section remains essentially intact, with only minor wording or formatting changes.

**SECTION 01160 - HYDRANTS AND APPURTENANCES**

This section remains essentially intact, with only minor wording or formatting changes.

**SECTION 01170 – POTABLE WATER SERVICE CONNECTIONS, 2 INCH AND  
SMALLER**

Field Testing requirements have changed.

## PART 02000 & 03000 – MATERIALS

### **SECTION 02001 - CONCRETE**

Commercial Grade Concrete (CGC) was removed from 02001. CGC will now be completely stand-alone in Section 00440.

The design requirements for minimum cementitious materials content have been eliminated.

Paving concrete and precast prestressed concrete materials have been included.

Some of the definitions have been changed or added.

The design requirements for high performance concrete were added.

A superset extender for bridge decks is now required.

The requirements for aggregates have been extended.

Concrete production has been referenced to the various ASTM sections.

Qualifications for quality control personnel have been moved to this Section.

### **SECTION 02010 - PORTLAND CEMENT**

This section remains essentially intact, with only minor wording or formatting changes.

### **SECTION 02020 - WATER**

This section remains essentially intact, with only minor wording or formatting changes.

### **SECTION 02030 - MODIFIERS**

This section remains essentially intact, with only minor wording or formatting changes.

### **SECTION 02050 - CHEMICAL ADMIXTURES**

Curing blankets and liquid evaporation reducer compounds have been added to this Section.

## **SECTION 02060 - SEALERS**

This Section is unchanged.

## **SECTION 02070 - BONDING AGENTS**

This Section is unchanged.

## **SECTION 02080 - GROUT**

This section remains essentially intact, with only minor wording or formatting changes.

Tendon grout has been added.

## **SECTION 02090 - LIME**

This section remains essentially intact, with only minor wording or formatting changes.

## **SECTION 02110 - POSTS, BLOCK, AND BRACES**

Only treated posts from approved suppliers will be accepted.

Southern Yellow Pine has been added as an acceptable wood for guardrail posts.

Western Cedar and Port Orford Cedar have been removed as acceptable wood or sign posts.

## **SECTION 02120 - POLES AND PILING**

This section remains essentially intact, with only minor wording or formatting changes.

## **SECTION 02130 - TIMBER AND LUMBER**

This section remains essentially intact, with only minor wording or formatting changes.

## **SECTION 02140 - GLUED LAMINATED TIMBER MEMBERS**

This section remains essentially intact, with only minor wording or formatting changes.

### **SECTION 02150 - LUMBER AND TIMBER CONNECTORS**

A subsection for lightweight metal connectors has been added.

### **SECTION 02190 - PRESERVATIVE TREATMENT OF TIMBER**

This section remains essentially intact, with only minor wording or formatting changes.

Several types of preservatives were added.

### **SECTION 02210 - COATING MATERIALS FOR TIMBER AND CONCRETE**

Sampling and testing requirements by the Agency have been eliminated.

Requirements for concrete sealers have been replaced by referencing the QPL.

### **SECTION 02320 - GEOSYNTHETICS**

This section remains essentially intact, with only minor wording or formatting changes.

(There appears to be something wrong with the way the Property Values Chart was copied into the document. It looks to be chopped off at the bottom).

### **SECTION 02340 - ROCK GABION BASKETS**

This section remains essentially intact, with only minor wording or formatting changes.

### **SECTION 02350 - METAL BIN RETAINING WALLS**

This section remains essentially intact, with only minor wording or formatting changes.

### **SECTION 02410 - CONCRETE AND PLASTIC PIPE**

Solid Wall High Density Polyethylene Pipe has been added .

Requirements for Polyvinyl Pipe have been made more stringent.

#### **SECTION 02420 - METAL PIPE**

This section remains essentially intact, with only minor wording or formatting changes.

#### **SECTION 02430 - STRUCTURAL PLATE PIPE**

This section remains essentially intact, with only minor wording or formatting changes.

#### **SECTION 02440 - JOINT MATERIALS**

This section remains essentially intact, with only minor wording or formatting changes.

#### **SECTION 02450 - MANHOLE AND INLET MATERIALS**

Compliance requirements for state highways per AASHTO were made stronger.

#### **SECTION 02470 - POTABLE WATER PIPE MATERIALS**

This section remains essentially intact, with only minor wording or formatting changes.

#### **SECTION 02475 - POTABLE WATER FITTING MATERIALS**

This section remains essentially intact, with only minor wording or formatting changes.

#### **SECTION 02480 - POTABLE WATER VALVE MATERIALS**

This section remains essentially intact, with only minor wording or formatting changes.

#### **SECTION 02485 - HYDRANT AND APPURTENANCE MATERIALS**

This section remains essentially intact, with only minor wording or formatting changes.

**SECTION 02490 - POTABLE WATER SERVICE CONNECTION MATERIALS, 2 INCH AND SMALLER**

This section remains essentially intact, with only minor wording or formatting changes.

**SECTION 02480 - POTABLE WATER VALVE MATERIALS**

This section remains essentially intact, with only minor wording or formatting changes.

**SECTION 02510 - REINFORCEMENT**

This section remains essentially intact, with only minor wording or formatting changes.

**SECTION 02515 - PRESTRESSING REINFORCEMENT**

This section remains essentially intact, with only minor wording or formatting changes.

**SECTION 02520 - STEEL AND CONCRETE PILES**

A subsection under steel piles titled "Reinforced Pile Tips" was added. All material requirements, sampling, testing and approval requirements regarding steel pile tip reinforcement were consolidated into this one subsection.

**SECTION 02530 - STRUCTURAL STEEL**

The reference to copper bearing steel has been removed.

The requirement that the ultrasonic inspection be done after flanges have been removed has been eliminated.

**SECTION 02540 - FORGINGS, SHAFTING, CASTING AND NONFERROUS MATERIALS**

This section remains essentially intact, with only minor wording or formatting changes.

**SECTION 02560 - FASTENERS**

This section remains essentially intact, with only minor wording or formatting changes.

#### **SECTION 02570 - COMPOSITE BEARINGS**

The requirement that the cotton warp and filling yarn be two ply has been removed.

#### **SECTION 02571 - ELASTOMERIC BEARING PADS**

The bearing tests and acceptance criteria have been made more stringent with the addition of several tests.

#### **SECTION 02610 - SPECIAL FILTER MATERIAL**

This section remains essentially intact, with only minor wording or formatting changes.

#### **SECTION 02630 - BASE AGGREGATE**

This section remains essentially intact, with only minor wording or formatting changes.

#### **SECTION 02640 - SHOULDER AGGREGATE**

This section remains essentially intact, with only minor wording or formatting changes.

#### **SECTION 02690 - PCC AGGREGATES**

This section remains essentially intact, with only minor wording or formatting changes.

#### **SECTION 02695 - RECLAIMED GLASS (MIXED WASTE CULLET)**

This section remains essentially intact, with only minor wording or formatting changes.

#### **SECTION 02810 - BRIDGE RAIL**

This section remains essentially intact, with only minor wording or formatting changes.

## **SECTION 02820 - METAL GUARDRAIL**

This section remains essentially intact, with only minor wording or formatting changes.

## **SECTION 02830 - HANDRAIL**

This section remains essentially intact, with only minor wording or formatting changes.

## **SECTION 02840 - PAVEMENT MARKING MATERIALS**

This section has been removed from the 2008 Specifications. This information may now be found in the new Section **00850 Common Provisions for Pavement Markings**.

## **SECTION 02850 - DELINEATORS**

This section has been removed from the 2008 Specifications. This information may now be found in the new Section **00850 Common Provisions for Pavement Markings**.

## **SECTION 02910 - SIGN MATERIALS**

The long list of types of signs has been moved from 00940 to this Section.

Permanent plywood signs are now required to be of high density plywood.

The subsections for the various sheetings have been removed. Sheetings are now called out in the QPL. The list of fabrication requirements has been removed.

Subsection 02910.60(b) has been drastically changed, with acceptance now being a quality compliance certificate from the manufacturer.

The Manufacturer's Warranty is now detailed very clearly.

## **SECTION 02920 - COMMON ELECTRICAL MATERIALS**

The old Section **02920 Highway Illumination and Traffic Signal Materials** has been divided into three separate Sections. This is the first of the three new sections. It deals with items that are common to all electrical installations.

### **SECTION 02925 - TRAFFIC SIGNAL MATERIALS**

This is a new Section that specifically deals with traffic signal items, with common items identified in Section 02920.

### **SECTION 02926 - HIGHWAY ILLUMINATION MATERIALS**

This is a new Section that specifically deals with highway illumination items, with common items identified in Section 02920.

### **SECTION 03010 – FENCING MATERIALS**

Rock protection fences and slope protection mat have been removed from this Section.