INTRO.AP1

INTRODUCTION

The following Amendments and Special Provisions shall be used in conjunction with the 2012 Standard Specifications for Road, Bridge, and Municipal Construction.

AMENDMENTS TO THE STANDARD SPECIFICATIONS

The following Amendments to the Standard Specifications are made a part of this contract and supersede any conflicting provisions of the Standard Specifications. For informational purposes, the date following each Amendment title indicates the implementation date of the Amendment or the latest date of revision.

Each Amendment contains all current revisions to the applicable section of the Standard Specifications and may include references which do not apply to this particular project.

1-01.AP1

Section 1-01, Definition and Terms
January 2, 2012

1-01.3 Definitions

The definition for **"Bid Documents**" is revised to read:

> The component parts of the proposed Contract which may include, but are not limited to, the Proposal Form, the proposed Contract Provisions, the proposed Contract Plans, Addenda, and, for projects with Contracting Agency subsurface investigations, the Summary of Geotechnical Conditions and subsurface boring logs (if any).

1-02.AP1

Section 1-02, Bid Procedures and Conditions
January 2, 2012

1-02.4(2) Subsurface Information

The first two sentences in the first paragraph are revised to read:

> If the Contracting Agency has made subsurface investigation of the site of the proposed work, the boring log data, soil sample test data, and geotechnical recommendations reports obtained by the Contracting Agency will be made available for inspection by the Bidders at the location specified in the Special Provisions. The Summary of Geotechnical Conditions, as an appendix to the Special Provisions, and the boring logs shall be considered as part of the Contract.

1-03.AP1

Section 1-03, Award and Execution of Contract
April 2, 2012

1-03.1(1) Tied Bids

This section's title is revised to read:

> **1-03.1(1) Identical Bid Totals**

1-08.AP1

Section 1-08, Prosecution and Progress
April 2, 2012

1-08.1 Subcontracting

In the eighth paragraph, "Contracting Agency" is revised to read "WSDOT".

1-08.3(1) General Requirements

The following new paragraph is inserted after the first paragraph:

> Total float belongs to the project and shall not be for the exclusive benefit of any party.

1-08.7 Maintenance During Suspension

The second paragraph is revised to read:

> At no expense to the Contracting Agency, the Contractor shall provide through the construction area safe, smooth, and unobstructed roadways and pedestrian access routes for public use during the suspension (as required in Section 1-07.23 or the Special Provisions.) This may include a temporary road, alternative pedestrian access route or detour.

1-09.AP1

Section 1-09, Measurement and Payment
April 2, 2012

1-09.2(5) Measurement

The second sentence in the first paragraph is revised to read:

> The frequency of verification checks will be such that at least one test weekly is performed for each scale used in weighing contract items of Work.

3-04.AP3

Section 3-04, Acceptance of Aggregate
April 2, 2012

3-04.3(7)D4 An Entire Lot

The last sentence is deleted.

3-04.5 Payment

In the second paragraph, the reference "Section 3-04.3(6)C " is revised to read "Section 3-04.3(8)".

In Table 1, the row containing the item "Gravel Borrow for Geosynthetic Retaining Wall" is revised to read:

9-03.14(4)	Gravel Borrow for Geosynthetic Retaining Wall	4000	2000	$30	$60

5-01.AP5

Section 5-01, Cement Concrete Pavement Rehabilitation
April 2, 2012

5-01.3(2)B Portland Cement Concrete

The fifth sentence in the third paragraph is revised to read:

The lower Specification limit for compressive strength shall be 4,000-psi.

The last two sentences in the third paragraph are deleted.

5-01.3(11) Concrete Slurry

This section including title is revised to read:

5-01.3(11) Concrete Slurry and Grinding Residue

All concrete slurry and grinding residue shall be removed from the pavement surface on a continual basis immediately behind the grinding or cutting operations. Slurry shall not be allowed to drain into an area open to traffic, off of the paved surface or into any drainage structure.

The Contractor shall collect the concrete slurry and grinding residue from the pavement surface and dispose of it in accordance with Section 2-03.3(7)C.

Opening to traffic shall meet the requirements of Section 5-05.3(17).

5-04.AP5

Section 5-04, Hot Mix Asphalt
April 2, 2012

5-04.3(10)B3 Longitudinal Joint Density

The section including title is revised to read:

5-04.3(10)B3 Vacant

6-02.AP6

Section 6-02, Concrete Structures
April 2, 2012

6-02.3(16) Plans for Falsework and Formwork

Item No. 4 in the seventh paragraph is revised to read:

4. Conditions required by other Sections of 6-02.3(17), Falsework and Formwork.

Item's No. 5, 6, 7, and 8 in the seventh paragraph are deleted.

The following paragraph is inserted after the seventh paragraph:

Plan approval can be done by the Project Engineer for footings and walls 4 to 8 feet high (excluding pedestal height) provided:

1. Concrete placement rate is 4 feet per hour or less.

2. Facing is ¾-inch plywood with grades as specified per Section 6-02.3(17)I.

3. Studs, with plywood face grain perpendicular, are 2 by 4's spaced at 12 inches.

4. Walers with 3,000 pound safe working load ties spaced at 24 inches are two 2 by 4's spaced at 24 inches.

6-02.3(17)F Bracing

In the first paragraph, the phrase "per Section 6-02.3(17)I" is revised to read "in accordance with Section 6-02.3(17)I".

This section is supplemented with the following new sub-section:

6-02.3(17)F5 Temporary Bracing for Bridge Girders During Diaphragm and Bridge Deck Concrete Placement

Prestressed concrete girders shall be braced to resist forces that would cause rotation or torsion in the girders caused by the placing of precast concrete deck panels and concrete for the bridge deck.

Bracing shall be designed and detailed by the Contractor and shall be shown in the falsework/formwork plans submitted to the Engineer for approval. These braces shall be furnished, installed, and removed by the Contractor at no additional cost to the Contracting Agency. The Contractor may consider the bracing effects of the diaphragms in developing the falsework/formwork plans. The Contractor shall account for the added load from concrete finishing machines and other construction loadings in the design of the bracing.

Falsework support brackets and braces shall not be welded to structural steel bridge members or to steel reinforcing bars.

6-02.3(17)F4 Temporary Bracing for Bridge Girders

This section including title is revised to read:

6-02.3(17)F4 Temporary Bracing for Bridge Girders During Erection

Steel girders shall be braced in accordance with Section 6-03.3(7)A.

Prestressed concrete girders shall be braced sequentially during girder erection. The bracing shall be designed and detailed by the Contractor and shall be shown in the falsework/formwork plans submitted to the Engineer for approval. The Contractor shall furnish, install, and remove the bracing at no additional cost to the Contracting Agency.

At a minimum, the Contractor shall brace girders at each end and at midspan to prevent lateral movement or rotation. This bracing shall be placed prior to the release of each girder from the erection equipment. If the bridge is constructed with cast-in-place concrete diaphragms, the bracing may be removed once the concrete in the diaphragms has been placed and cured for a minimum of 24 hours.

6-02.3(25)N Prestressed Concrete Girder Erection

The third sentence in the fifth paragraph is revised to read:

The girders shall be braced in accordance with Sections 6-02.3(17)F4 and 6-02.3(17)F5.

6-02.3(26)E5 Leak Tightness Testing

The first sentence in the first paragraph is revised to read:

The Contractor shall test each completed duct assembly for leak tightness after placing concrete but prior to placing post tensioning reinforcement.

The second paragraph is revised to read:

Prior to testing, all grout caps shall be installed and all vents, grout injection ports, and drains shall either be capped or have their shut-off valves closed. The Contractor shall pressurize the completed duct assembly to an initial air pressure of 50 psi. This pressure shall be held for five minutes to allow for internal adjustments within the assembly. After five minutes, the air supply valve shall be closed. The Contractor shall monitor and measure the pressure maintained within the closed assembly, and any subsequent loss of pressure, over a period of one minute following the closure of the air supply valve. The maximum pressure loss for duct assemblies equal to or less than 150 feet in length shall be 25 psig. The maximum pressure loss for duct assemblies greater than 150 feet in length shall be 15 psig. If the pressure loss exceeds the allowable, locations of leakage shall be identified, repaired or reconstructed using methods approved by the Engineer. The repaired system shall then be retested. The cycle of testing, repair and retesting of each completed duct assembly shall continue until the completed duct assembly completes a test with pressure loss within the specified amount.

6-03.AP6

Section 6-03, Steel Structures
April 2, 2012

6-03.3(28)A Method of Shop Assembly

The first sentence in Item 2.C. is revised to read:

For Trusses and Girders – After the first stage has been completed, each subsequent stage shall be assembled to include: at least one truss panel or girder shop section of the previous stage and two or more truss panels or girder shop sections added at the advancing end.

6-07.AP6

Section 6-07, Painting
April 2, 2012

6-07.3(9)A Paint System

The first sentence in the second paragraph is revised to read:

All paint coating components of the selected paint system shall be produced by the same manufacturer.

6-07.3(10)H Paint System

The first and second sentences in the second paragraph are revised to read:

All paint coating components of the selected paint system shall be produced by the same manufacturer.

6-10.AP6

Section 6-10, Concrete Barrier
April 2, 2012

6-10.5 Payment

In the second paragraph, the bid item “Conc. Class 4000” is revised to read:

“Conc. Class 4000___”

6-12.AP6

Section 6-12, Noise Barrier Walls
January 2, 2012

6-12.3(3) Shaft Construction

The third sentence in the fifth paragraph is revised to read:

When efforts to advance past the obstruction to the design shaft tip elevation result in the rate of advance of the shaft drilling equipment being significantly reduced relative to the rate of advance for the rest of the shaft excavation, then the Contractor shall remove the obstruction under the provisions of Section 6-12.5.

6-12.5 Payment

This section is supplemented with the following:

“Removing Noise Barrier Wall Shaft Obstructions”, estimated.

Payment for removing obstructions, as defined in Section 6-12.3(3), will be made for the changes in shaft construction methods necessary to remove the obstruction. The Contractor and the Engineer shall evaluate the effort made and reach agreement on the equipment and employees utilized, and the number of hours involved for each. Once these cost items and their duration have been agreed upon, the payment amount will be determined using the rate and markup methods specified in Section 1-09.6. For the purpose of providing a common proposal for all bidders, the Contracting Agency has entered an amount for the item "Removing Noise Barrier Wall Shaft Obstructions" in the bid proposal to become a part of the total bid by the Contractor.

If the shaft construction equipment is idled as a result of the obstruction removal work and cannot be reasonably reassigned within the project, then standby payment for the idled equipment will be added to the payment calculations. If labor is idled as a result of the obstruction removal work and cannot be reasonably reassigned within the project, then all labor costs resulting from Contractor labor agreements and established Contractor policies will be added to the payment calculations.

The Contractor shall perform the amount of obstruction work estimated by the Contracting Agency within the original time of the contract. The Engineer will consider a time adjustment and additional compensation for costs related to the extended duration of the shaft construction operations, provided:

1. the dollar amount estimated by the Contracting Agency has been exceeded, and;

2. the Contractor shows that the obstruction removal work represents a delay to the completion of the project based on the current progress schedule provided in accordance with Section 1-08.3.

6-14.AP6

Section 6-14, Geosynthetic Retaining Walls
January 2, 2012

6-14.2 Materials

The referenced section for the following item is revised to read:

Grout	9-20.3(4)

In the first paragraph, the following items are inserted after the item "Gravel Borrow For Geosynthetic Retaining Wall":

Polyurethane Sealant	9-04.2(3)
Closed Cell Foam Backer Rod	9-04.2(3)A

6-15.AP6

Section 6-15, Soil Nail Walls
January 2, 2012

6-15.2 Materials

The referenced section for the following item is revised to read:

Grout	9-20.3(4)

6-15.3(3) Submittals

Item f beneath item number 3 is revised to read:

f. Mix design and procedures for placing the grout.

6-15.3(6) Soil Nailing

This section is supplemented with the following:

The Contractor shall make and cure grout cubes once per day in accordance with WSDOT Test Method T 813. These samples shall be retained by the Contractor until all associated verification and proof testing of the soil nails has been successfully completed. If the Contractor elects to test the grout cubes for compressive strength, testing shall be conducted by an independent laboratory and shall be in accordance with the WSDOT FOP for AASHTO T106.

6-16.AP6

Section 6-16, Soldier Pile and Soldier Pile Tieback Walls
January 2, 2012

6-16.3(3) Shaft Excavation

The third sentence in the seventh paragraph is revised to read:

When efforts to advance past the obstruction to the design shaft tip elevation result in the rate of advance of the shaft drilling equipment being significantly reduced relative to the rate of advance for the rest of the shaft excavation, then the Contractor shall remove the obstruction under the provisions of Section 6-16.5.

6-16.5 Payment

This section is supplemented with the following:

"Removing Soldier Pile Shaft Obstructions", estimated.

Payment for removing obstructions, as defined in Section 6-16.3(3), will be made for the changes in shaft construction methods necessary to remove the obstruction. The Contractor and the Engineer shall evaluate the effort made and reach agreement on the equipment and employees utilized, and the number of hours involved for each. Once these cost items and their duration have been agreed upon, the payment amount will be determined using the rate and markup methods specified in Section 1-09.6. For the purpose of providing a common proposal for all bidders, the Contracting Agency has entered an amount for the item "Removing Soldier Pile Shaft Obstructions" in the bid proposal to become a part of the total bid by the Contractor.

If the shaft construction equipment is idled as a result of the obstruction removal work and cannot be reasonably reassigned within the project, then standby payment for the idled equipment will be added to the payment calculations. If labor is idled as a result of the obstruction removal work and cannot be reasonably reassigned within the project, then all labor costs resulting from Contractor labor agreements and established Contractor policies will be added to the payment calculations.

The Contractor shall perform the amount of obstruction work estimated by the Contracting Agency within the original time of the contract. The Engineer will consider a time adjustment and additional compensation for costs related to the extended duration of the shaft construction operations, provided:

1. the dollar amount estimated by the Contracting Agency has been exceeded, and;

2. the Contractor shows that the obstruction removal work represents a delay to the completion of the project based on the current progress schedule provided in accordance with Section 1-08.3.

6-17.AP6

Section 6-17, Permanent Ground Anchors
January 2, 2012

6-17.3(3) Submittals

The first sentence in the sixth paragraph is revised to read:

The Contractor shall submit the mix design for the grout conforming to Section 9-20.3(4) and the procedures for placing the grout to the Engineer for approval.

6-17.3(7) Installing Permanent Ground Anchors

The following new paragraph is inserted after the sixth paragraph:

The Contractor shall make and cure grout cubes once per day in accordance with WSDOT Test Method T 813. These samples shall be retained by the Contractor until all associated verification, performance and proof testing of the permanent ground anchors has been successfully completed. If the Contractor elects to test the grout cubes for compressive strength, testing shall be conducted by an independent laboratory and shall be in accordance with the WSDOT FOP for AASHTO T106.

7-02.AP7

Section 7-02, Culverts
April 2, 2012

7-02.5

The bid item "Steel Rib Reinforced Polyethylene Culvert Pipe _____ In. Diam.", per linear foot is revised to read:

"St. Rib Reinf Polyethlene Culv. Pipe _____ In. Diam.", per linear foot

7-04.AP7

Section 7-04, Storm Sewers
April 2, 2012

7-04.3(1)B Exfiltration Test – Storm Sewers

The fifth column title "PE^{4}" is revised to read "PP^{4}" from the table titled, "**Storm Sewer Pipe Schedules".**

7-04.5

The bid item "Steel Rib Reinforced Polyethylene Storm Sewer Pipe _____ In Diam", per linear foot is revised to read:

"St. Rib Reinf Polyethlene Storm Sewer Pipe _____ In. Diam", per linear foot

7-05.AP7

Section 7-05, Manholes, Inlets, Catch Basins, and Drywells
April 2, 2012

7-05.3 Construction Requirements

The third paragraph is supplemented with the following:

Leveling and adjustment devices that do not modify the structural integrity of the metal frame, grate or cover, and do not void the originating foundry's compliance to these specifications and warranty is allowed. Approved leveling devices are listed in the Qualified Products List. Leveling and adjusting devices that interfere with the backfilling, backfill density, grouting and asphalt density will not be allowed. The

hardware for leveling and adjusting devices shall be completely removed when specified by the Project Engineer.

8-01.AP8

Section 8-01, Erosion Control and Water Pollution Control
April 2, 2012

8-01.3(2)D Mulching

The following two new paragraphs are inserted after the fourth paragraph:

Short-Term Mulch shall be hydraulically applied at the rate of 2500 pounds per acre and may be applied in one lift.

Moderate-Term Mulch and Long-Term Mulch shall be hydraulically applied at the rate of 3500 pounds per acre with no more than 2000 pounds applied in any single lift.

8-01.3(2)E Soil Binders and Tacking Agents

The first paragraph is revised to read:

Tacking agents or soil binders applied using a hydroseeder shall have a mulch tracer added to visibly aid uniform application. This tracer shall not be harmful to plant, aquatic, or animal life. A minimum of 125 pounds per acre and a maximum of 250 pounds per acre of Short-Term Mulch shall be used as a tracer.

The last two paragraphs are deleted.

8-01.3(2)F Dates for Application of Final Seed, Fertilizer, and Mulch

In the first paragraph, “Engineer” is revised to read “Project Engineer”.

Note 1 of the table in the first paragraph is revised to read:

[1] Where Contract timing is appropriate, seeding, fertilizing, and mulching shall be accomplished during the fall period listed above

The third paragraph is deleted.

8-01.3(5) Placing Plastic Covering

The second and third paragraphs are revised to read:

Clear plastic covering shall be used to promote seed germination when seeding is performed outside of the Dates for Application of Final Seed in Section 8-01.3(2)F. Black plastic covering shall be used for stockpiles or other areas where vegetative growth is unwanted.

The plastic cover shall be installed and maintained in a way that prevents water from cutting under the plastic and prevents the plastic cover from blowing open in the wind.

8-01.3(6) Check Dams

This section is revised to read:

Check dams shall be installed as soon as construction will allow, or when designated by the Engineer. The Contractor may substitute a different check dam, in lieu of what is

specified in the contract, with approval of the Engineer. The check dam is a temporary or permanent structure, built across a minor channel. Water shall not flow through the check dam structure. Check dams shall be constructed in a manner that creates a ponding area upstream of the dam to allow pollutants to settle, with water from increased flows channeled over a spillway in the check dam. The check dam shall be constructed to prevent erosion in the area below the spillway. Check dams shall be placed perpendicular to the flow of water and installed in accordance with the Standard Plans. The outer edges shall extend up the sides of the conveyance to prevent water from going around the check dam. Check dams shall be of sufficient height to maximize detention, without causing water to leave the ditch. Check dams shall meet the requirements in Section 9-14.5(4).

8-01.3(7) Stabilized Construction Entrance

The first paragraph is revised to read:

Temporary stabilized construction entrance shall be constructed in accordance with the Standard Plans, prior to beginning any clearing, grubbing, embankment or excavation. All quarry spall material used for stabilized construction entrance shall be free of extraneous materials that may cause or contribute to track out.

8-01.3(9)B Gravel Filter, Wood Chip, or Compost Berm

The first paragraph is revised to read:

Filter berms shall retain sediment and direct flows. The gravel filter berm shall be a minimum of 1 foot in height and shall be maintained at this height for the entire time they are in use. Rock material used for filter berms shall meet the grading requirements in Section 9-03.9(2), but shall not include any recycled materials as outlined in Section 9-03.21.

8-01.3(9)C Straw Bale Barrier

This section including title is revised to read:

8-01.3(9)C Vacant

8-01.3(11) Vacant

This section including title is revised to read:

8-01.3(11) Outlet Protection

Outlet protection shall prevent scour at the outlets of ponds, pipes, ditches or other conveyances. All quarry spall material used for outlet protection shall be free of extraneous material and meet the gradation requirements in Section 9-13.6.

8-01.3(13) Temporary Curb

This section is revised to read:

Temporary curbs shall divert or redirect water around erodible soils.

Temporary curbs shall be installed along pavement edges to prevent runoff from flowing onto erodible slopes. Water shall be directed to areas where erosion can be controlled. The temporary curbs shall be a minimum of 4 inches in height. Ponding shall not be in roadways.

8-01.4 Measurement

The third paragraph is revised to read:

Check dams will be measured per linear foot one time only along the completed check dam. No additional measurement will be made for check dams that are required to be rehabilitated or replaced due to wear.

This section is supplemented with the following:

Outlet Protection will be measured per each initial installation at an outlet location.

8-01.5 Payment

This section is supplemented with the following:

"Outlet Protection", per each.

8-02.AP8

Section 8-02, Roadside Restoration
April 2, 2012

8-02.5 Payment

The paragraph following bid item "Coarse Compost", per cubic yard" is revised to read:

The unit Contract price per cubic yard for "Fine Compost", Medium Compost" or "Coarse Compost" shall be full pay for furnishing and spreading the compost onto the existing soil.

8-03.AP8

Section 8-03, Irrigation Systems
April 2, 2012

8-03.3(7) Flushing and Testing

The fifth paragraph is deleted.

8-04.AP8

Section 8-04, Curbs, Gutters, and Spillways
April 2, 2012

8-04.3(1) Cement Concrete Curbs, Gutters, and Spillways

This section is supplemented with the following new sub-section:

8-04.3(1)B Roundabout Cement Concrete Curb and Gutter

Roundabout cement concrete curb and gutter and roundabout splitter island nosing curb shall be shaped and finished to match the shape of the adjoining curb as shown in the Plans. All other requirements for cement concrete curb and cement concrete curb and gutter shall apply to roundabout cement concrete curb and gutter.

8-04.4 Measurement

This section is supplemented with the following:

Roundabout splitter island nosing curb will be measured per each.

8-04.5 Payment

The bid item, “Roundabout Truck Apron Cement Concrete Curb”, per linear foot is deleted.

This section is supplemented with the following:

“Roundabout Cement Concrete Curb and Gutter”, per linear foot

The unit Contract price per linear foot for “Roundabout Cement Concrete Curb and Gutter” shall be full payment for all costs for the Work including transitioning the roundabout cement concrete curb and gutter to the adjoining curb shape.

“Roundabout Splitter Island Nosing Curb”, per each.

The unit Contract price per each for “Roundabout Splitter Island Nosing Curb” shall be full payment for all costs for the Work including transitioning the roundabout splitter island nosing curb to the adjoining curb shape.

8-12.AP8

Section 8-12, Chain Link Fence and Wire Fence
April 2, 2012

In this Section “Engineer” is revised to read “Project Engineer”.

8-12.1 Materials

This section is supplemented with the following:

Paint 9-08.1(2)B

8-12.3(1)A Posts

The words “for Type 3 and Type 4 fences” and “on Type 3 and Type 4 fences” are deleted from this section.

The first sentence of the fifth paragraph is revised to read:

After the post is set and plumbed, the hole shall be filled with Grout Type 4.

The third sentence in the sixth paragraph is replaced with the following two sentences:

After the post is set and plumbed, the hole in the portion of the post in solid rock shall be filled with Grout Type 4. The grout shall be thoroughly worked into the hole so as to leave no voids.

The seventh paragraph is deleted.

The ninth paragraph is revised to read:

Steep slopes or abrupt topography may require changes in various elements of the fence. It shall be the responsibility of the Contractor to provide all posts of sufficient length to accommodate the chain link fabric.

The tenth paragraph is revised to read:

All round posts shall have approved top caps fastened securely to the posts. The base of the top cap fitting for round posts shall feature an apron around the outside of the posts.

8-12.3(1)B Top Rail

This section's content including title is deleted and replaced with:

8-12.3(1)B Vacant

8-12.3(1)C Tension Wire and Tension Cable

This section's content including title is revised to read:

8-12.3(1)C Tension Wire

Tension Wires shall be attached to the posts as detailed in the Plans or as approved by the Engineer.

8-12.3(1)D Chain Link Fabric

The first three paragraphs are revised to read:

Chain link fabric shall be attached after the cables and wires have been properly tensioned.

Chain link fabric shall be placed on the face of the post away from the Highway, except on horizontal curves where it shall be placed on the face on the outside of the curve unless otherwise directed by the Project Engineer.

Chain link fabric shall be placed approximately 1-inch above the ground and on a straight grade between posts by excavating high points of ground. Filling of depressions will be permitted only upon approval of the Project Engineer.

The third sentence of the fourth paragraph is revised to read:

The top and bottom edge of the fabric shall be fastened with hog rings to the top and bottom tension wires as may be applicable, spaced at 24-inch intervals.

8-12.3(1)E Chain Link Gates

The third paragraph is deleted.

8-12.3(2)A Posts

In the second paragraph, "commercial" is deleted.

The first sentence of the fifth paragraph is revised to read:

After the post is set and plumbed, the hole shall be filled with Grout Type 4.

The fourth sentence in the sixth paragraph is replaced with the following two sentences:

After the post is set and plumbed, the hole in the portion of the post in solid rock shall be filled with Grout Type 4. The grout shall be thoroughly worked into the hole so as to leave no voids.

The tenth paragraph is revised to read:

> Where the new fence joins an existing fence, the 2 shall be attached in a manner satisfactory to the Project Engineer, and end or corner posts shall be set as necessary.

The eleventh paragraph is deleted.

8-12.5 Payment

The paragraph following the item "Chain Link Fence Type ____", per linear foot is revised to read:

> The unit Contract price per linear foot for "Chain Link Fence Type ___" shall be full payment for all costs for the specified Work including brace post installation and all other requirements of Section 8-12 for Chain Link Fence, unless covered in a separate Bid Item in this Section.

The following paragraph is inserted after the item "End, Gate, Corner, and Pull Post for Chain Link Fence", per each:

> The unit Contract price per each for "End, Gate, Corner, and Pull Post for Chain Link Fence" shall be full payment for all costs for the specified Work.

The following paragraph is inserted after the item "Single 6 Ft. Chain Link Gate", per each:

> The unit Contract price per each for "Double 14 Ft. Chain Link Gate", "Double 20 Ft. Chain Link Gate", and "Single 6 Ft. Chain Link Gate", shall be full payment for all costs for the specified Work.

The following paragraph is inserted after the item "Wire Fence Type ____", per linear foot:

> The unit Contract price per each for "Wire Fence Type ____" shall be full payment for all costs for the specified Work including payment for clearing of the fence line.

The following paragraph is inserted after the item "Double Wire Gate 20 Ft. Wide", per each:

> The unit contract price per each for "Single Wire Gate 14 Ft. Wide" and "Double Wire Gate 20 Ft. Wide" shall be full payment for all costs for the specified Work.

The paragraph following the item "Access Control Gate", per each is revised to read:

> The unit contract price per each for "Access Control Gate" shall be full payment for all costs to perform the specified Work.

8-15.AP8

Section 8-15, Riprap
April 2, 2012

8-15.1 Description

The second paragraph is revised to read:

Riprap will be classified as heavy loose riprap, light loose riprap, and hand placed riprap.

8-20.AP8

Section 8-20, Illumination, Traffic Signal Systems, And Electrical
January 2, 2012

8-20.3(9) Bonding, Grounding

The first sentence in the second paragraph is replaced with the following two sentences:

All conduit installed shall have an equipment ground conductor installed in addition to the conductors noted in the Contract. Conduit with innerducts shall have an equipment ground conductor installed in each innerduct that has an electrical conductor.

8-21.AP8

Section 8-21, Permanent Signing
April 2, 2012

8-21.2 Materials

The third sentence is revised to read:

Materials for sign mounting shall conform to Section 9-28.11.

8-21.3(9)A Fabrication of Steel Structures

The first sentence in the first paragraph is revised to read:

Fabrication shall conform to the applicable requirements of Section 6-03 and 9-06.

This section is supplemented with the following:

All fabrication, including repairs, adjustments or modifications of previously fabricated sign structure members and connection elements, shall be performed in the shop, under an Engineer approved shop drawing prepared and submitted by the Contractor for the original fabrication or the specific repair, adjustment or modification. Sign structure fabrication repair, adjustment or modification of any kind in the field is not permitted. If fabrication repair, adjustment or modification occurs after a sign structure member or connection element has been galvanized, the entire member or element shall be re-galvanized in accordance with AASHTO M 111.

8-21.3(9)B Vacant

This section including title is revised to read:

8-21.3(9)B Erection of Steel Structures

Erection shall conform to the applicable requirements of Sections 6-03 and 8-21.3(9)F. Section 8-21.3(9)F notwithstanding, the Contractor may erect a sign bridge prior to completion of the shaft cap portion of one foundation for one post provided the following conditions are satisfied:

1. The Contractor shall submit design calculations and working drawings of the temporary supports and falsework supporting the sign bridge near the location of the incomplete foundation to the Engineer for approval in accordance with

Section 6-01.9. The submittal shall include the method of releasing and removing the temporary supports and falsework without inducing loads and stress into the sign bridge.

2. The Contractor shall submit the method used to secure the anchor bolt array in proper position with the sign bridge while casting the shaft cap concrete to complete the foundation.

3. The Contractor shall erect the sign bridge and temporary supports and falsework, complete the remaining portion of the incomplete foundation, and remove the temporary supports and falsework, in accordance with the working drawing submittals as approved by the Engineer.

8-21.3(9)F Foundations

The eighth paragraph is replaced with the following three new paragraphs:

After construction of concrete foundations for sign bridge and cantilever sign structures, the Contractor shall survey the foundation locations and elevations, the anchor bolt array locations and lengths of exposed threads. The Contractor shall confirm that the survey conforms to the sign structure post, beam, span and foundation design geometry shown in the Plans, and shall identify any deviations from the design geometry shown in the Plans. When deviations are identified, the Contractor shall notify the Engineer, and such notice shall be accompanied by the Contractor's proposed method(s) of addressing the deviations, including removal and reconstruction of the shaft cap portion of the affected concrete foundation as outlined in this Section, or fabrication repair, adjustment or modification, with associated shop drawings, in accordance with Section 8-21.3(9)A.

If the Contractor's survey indicates that a concrete foundation has been constructed incorrectly for a sign structure that has already been fabricated, the Contractor may remove and reconstruct the shaft cap portion of the foundation, in accordance with Section 1-07.13, provided the following conditions are satisfied:

1. The Contractor shall submit the method and equipment to be used to remove the portion of the concrete foundation to be removed and reconstructed to the Engineer for approval in accordance with Section 1-05.3. The submittal shall include confirmation that the equipment and the method of operation is appropriate to ensure that the existing anchor bolt array and primary shaft vertical steel reinforcing bars will not be damaged.

2. All steel reinforcing bars, except for steel reinforcing bars extending from the bottom portion of the foundation to remain, shall be removed and disposed of in accordance with Sections 2-02.3 and 2-03.3(7)C, and shall be replaced with new steel reinforcing bars conforming to the size, dimensions and geometry shown in the Plans. All concrete of the removed portion of the foundation shall be removed and disposed of in accordance with Sections 2-02.3 and 2-03.3(7)C.

3. The Contractor shall adjust the primary shaft vertical steel reinforcing bars as necessary in accordance with Section 6-02.3(24)C to provide clearance for the anchor bolt array.

Sign structures shall not be erected on concrete foundations until the Contractor confirms that the foundations and the fabricated sign structures are either compatible with each other and the design geometry shown in the Plans, or have been modified in accordance with this Section and as approved by the Engineer to be compatible with each other, and the foundations have attained a compressive strength of 2,400-psi.

8-21.5 Payment

This section is supplemented with the following:

All costs in connection with surveying completed concrete foundations for sign bridges and cantilever sign structures shall be included in the lump sum contract price for "Structure Surveying", except that when no Bid item is included in the Proposal for "Structure Surveying" then such costs shall be included in the lump sum contract price(s) for "Sign Bridge No. ___" and "Cantilever Sign Structure No. ___".

8-25.AP8

Section 8-25, Glare Screen
April 2, 2012

In this section, "tension cable" and "cable" are deleted.

8-25.3(3) Posts

The first sentence in the first paragraph is revised to read:

Posts shall be constructed in accordance with the Standard Plans and applicable provisions of Section 8-12.3(1)A.

The last paragraph is revised to read:

All round posts for Type 1 Design B and Type 2 glare screen shall be fitted with a watertight top securely fastened to the post. Line posts shall have tops designed to carry the top tension wire.

8-25.3(5) Tension Cables

This section including title is revised to read:

8-25.3(5) Vacant

9-03.AP9

Section 9-03, Aggregates
April 2, 2012

9-03.14(1) Gravel Borrow

Note [1] is deleted, including the reference in the table.

9-03.14(2) Select Borrow

Note [1] is deleted.

Note [2] is re-numbered Note [1], including the reference in the table.

9-03.14(4) Gravel Borrow for Geosynthetic Retaining Wall

This section is revised to read:

All backfill material for geosynthetic retaining walls shall consist of granular material, either naturally occurring or processed, and shall be free draining, free from organic or otherwise deleterious material. The material shall be substantially free of shale or other soft, poor durability particles, and shall not contain recycled materials, such as glass, shredded tires, portland cement concrete rubble, or asphaltic concrete rubble. The backfill material shall meet the following requirements for grading and quality:

Sieve Size	Percent Passing
1 ¼ " [1]	99-100
1"	90-100
No. 4	50-80
No. 40	30 max.
No. 200	7.0 max.
Sand Equivalent	50 min.

All percentages are by weight

Property	Test Method	Allowable Test Value
Los Angeles Wear 500 rev.	AASHTO T 96	35 percent max.
Degration Factor	WSDOT Test Method 113	15 min.
pH, permanent walls	AASHTO T 289	4.5-9
pH, temporary walls	AASHTO T 289	3-10

Wall backfill material satisfying these grading and property requirements shall be classified as nonaggressive.

9-03.21(1) General Requirements

The first sentence in the first paragraph is revised to read:

Hot Mix Asphalt, Concrete Rubble, Recycled Glass (glass cullet), and Steel Furnace Slage may be used as, or blended uniformly with naturally occurring materials for aggregates.

9-03.21(1)C Vacant

This section including title is revised to read:

9-03.21(1)C Recycled Glass (Glass Cullet)

Glass Cullet shall meet the requirements of AASHTO M 318 with the additional requirement that the glass cullet is limited to the maximum amounts set in Section 9-03.21(1)E for recycled glass. Prior to use the Contractor shall provide certification to the Project Engineer that the recycled glass meets the physical properties and deleterious substances requirements in AASHTO M-318.

9-03.21(1) E Table on Maximum Allowable Percent (By Weight) of Recycled Material

The column heading "Recycled Glass" is revised to read "Recycled Glass (Glass Cullet) in the table.

In the column “Recycled Glass (Glass Cullet)” all amounts are revised to read “20” beginning with the item “Ballast” and continuing down until the last item in the table.

9-04.AP9

Section 9-04, Joint And Crack Sealing Materials
January 2, 2012

9-04.2 Joint Sealants

This section is supplemented with the following new sub-sections:

9-04.2(3) Polyurethane Sealant

Polyurethane sealant shall conform to ASTM C 920 Type S Grade NS Class 25 Use M.

Polyurethane sealant shall be compatible with the closed cell foam backer rod. When required, compatibility characteristics of sealants in contact with backer rods shall be determined by Test Method ASTM C 1087.

9-04.2(3)A Closed Cell Foam Backer Rod

Closed cell foam backer rod for use with polyurethane sealant shall conform to ASTM C 1330 Type C.

9-06.AP9

Section 9-06, Structural Steel and Related Materials
April 2, 2012

9-06.5(2) High Strength Bolts

In this section, “AASHTO M 291” is revised to read “ASTM A 563”.

9-10.AP9

Section 9-10, Piling
April 2, 2012

9-10.4 Steel Pile Tips and Shoes

In the first paragraph “ASTMA A 148 Grade 60-90” is revised to read “ASTMA A 148 Grade 90-60”.

9-14.AP9

Section 9-14, Erosion Control and Roadside Planting
April 2, 2012

9-14.3 Fertilizer

The second sentence in the first paragraph is revised to read:

It may be separate or in a mixture containing the percentage of total nitrogen, available phosphoric acid, and water-soluble potash or sulfur in the amounts specified.

9-14.4(2) Hydraulically Applied Erosion Control Products (HECPs)

The fourth row in Table 1 is revised to read:

Heavy Metals	EPA 6020A Total Metals	Antimony – < 4 mg/kg

		Arsenic – < 6 mg/kg Barium – < 80 mg/kg Boron –< 160 mg/kg Cadmium – < 2 mg/kg Total Chromium – < 4 mg/kg Copper – < 10 mg/kg Lead – < 5 mg/kg Mercury – < 2 mg/kg Nickel – < 2 mg/kg Selenium – < 10 mg/kg Strontium – < 30 mg/kg Zinc – < 30 mg/kg

9-14.4(2)A Long Term Mulch

In the first paragraph, the phrase "within 2 hours of application" is deleted.

9-14.4(4) Wood Strand Mulch

The third paragraph is revised to read:

The Contractor shall provide Material Safety Data Sheet (MSDS) that demonstrates that the product is not harmful to plant life and a test report performed in accordance with WSDOT Test Method 125 demonstrating compliance to this specification prior to acceptance.

9-14.4(8) Compost

The second paragraph is revised to read:

Compost production and quality shall comply with WAC 173-350 and for biosolids composts, WAC 173-308.

The third paragraph is to read:

Compost products shall meet the following physical criteria:

1. Compost material shall be tested in accordance with U.S. Composting Council Testing Methods for the Examination of Compost and Composting (TMECC) 02.02-B, "Sample Sieving for Aggregate Size Classification".

Fine compost shall meet the following gradation:

Sieve Size	Percent Passing	
	Minimum	Maximum
1"	100	
$^{5}/_{8}$"	90	100
¼"	75	100

Note Maximum particle length of 4 inches.

Medium compost shall meet the following gradation:

Sieve Size	Percent Passing

	Minimum	Maximum
1”	100	
5/8”	85	100
¼”	70	85

Note Maximum particle length of 4 inches. Medium compost shall have a carbon to nitrogen ration (C:N) between 18:1 and 35:1. The carbon to nitrogen ration shall be calculated using dry weight of “Organic Carbon” using TMECC 04.01A divided by the dry weight of “Total N” using TMECC 04.02D.

Coarse compost shall meet the following gradation:

Sieve Size	Percent Passing	
	Minimum	Maximum
2”	100	
1”	90	100
¾”	70	100
¼”	40	60

Note Maximum particle length of 6 inches. Coarse compost shall have a carbon to nitrogen ratio (C:N) between 25:1 and 35:1. The carbon to nitrogen ratio shall be calculated using the dry weight of “Organic Carbon” using TMECC 04.01A divided by the dry weight of “Total N” using TMECC 04.02D.

2. The pH shall be between 6.0 and 8.5 when tested in accordance with U.S. Composting Council TMECC 04.11-A, “1:5 Slurry pH”.

3. Manufactured inert material (plastic, concrete, ceramics, metal, etc.) shall be less than 1 percent by weight as determined by U.S. Composting Council TMECC 03.08-A “Classification of Inerts by Sieve Size”.

4. Minimum organic matter shall be 40 percent by dry weight basis as determined by U.S. Composting Council TMECC 05.07A “Loss-On-Ignition Organic Matter Method (LOI)”.

5. Soluble salt contents shall be less than 4.0 mmhos/cm when tested in accordance with U.S. Composting Council TMECC 04.10 “Electrical Conductivity.”

6. Maturity shall be greater than 80 percent in accordance with U.S. Composting Council TMECC 05.05-A, “Germination and Root Elongation”.

7. Stability shall be 7-mg CO2–C/g OM/day or below in accordance with U.S. Composting Council TMECC 05.08-B “Carbon Dioxide Evolution Rate”.

8. The compost product shall originate from organic waste as defined in WAC 173 350 as “Type 1 Feedstocks”, “Type 2 Feedstocks”, and/or “Type 3 Feedstocks”. The Contractor shall provide a list of feedstock sources by percentage in the final compost product.

9. The Engineer may also evaluate compost for maturity using U.S. Composting Council TMECC 05.08-E "Solvita® Maturity Index". Fine compost shall score a number 6 or above on the Solvita® Compost Maturity Test. Medium and coarse compost shall score a 5 or above on the Solvita® Compost Maturity Test.

9-14.4(8)A Compost Approval

This section's title is revised to read:

9-14.4(8)A Compost Submittal Requirements

The first sentence in this section up until the colon is revised to read:

The Contractor shall submit the following information to the Engineer for approval:

Item No. 2 in the first paragraph is revised to read:

2. A copy of the Solid Waste Handling Permit issued to the manufacturer by the Jurisdictional Health Department in accordance with WAC 173-350 (Minimum Functional Standards for Solid Waste Handling) or for biosolid composts a copy of the Coverage Under the General Permit for Biosolids Management issued to the manufacturer by the Department of Ecology in accordance with WAC 173-308 (Biosolids Management).

9-14.5(2) Erosion Control Blanket

The second sentence in the first paragraph is revised to read:

The Contractor shall supply independent test results from the National Transportation Product Evaluation Program (NTPEP) meeting the following requirements in Tables 6 and 7:

9-14.5(4) Geotextile Encased Check Dam

This section including title is revised to read:

9-14.5(4) Check Dams

All materials used for check dams shall be non-toxic and not pose a threat to wildlife when installed.

This section is supplemented with the following new sub-sections:

9-14.5(4)A Biodegradable Check Dams

Biodegradable check dams shall meet the following requirements:

Biodegradable Check Dams	Materials
Wattle Check Dam	9-14.5(5)
Compost Sock Check Dam	9-14.5(6)
Coir Log Check Dam	9-14.5(7)

The Contractor may substitute a different biodegradable check dam as long as it complies with the following and is approved by the Engineer:

1. Made of natural plant fiber.

2. Netting if present shall be biodegradable.

9-14.5(4)B Non-biodegradable Check Dams

Non-biodegradable check dams shall meet the following requirements:

1. Geotextile materials shall conform to section 9-33 for silt fence.

2. Other such devices that fulfill the requirements of section 9-14.5(4) and shall be approved by the Engineer prior to installation.

9-14.6(1) Description

In item No. C in the fourth paragraph, “22-inch” is revised to read “2-inch”.

9-16.AP9

Section 9-16, Fence and Guardrail
April 2, 2012

9-16.1(1)A Post Material for Chain Link Fence

The last sentence in the last paragraph is deleted.

9-16.1(1)C Tension Wire and Tension Cable

This section including title is revised to read:

9-16.1(1)C Tension Wire

Tension wire shall meet the requirements of AASHTO M 181. Tension wire galvanizing shall be Class 1.

9-16.1(1)D Fittings and Hardware

The last paragraph is deleted.

9-16.1(2) Approval

This section is deleted.

9-16.6(3) Posts

This section is revised to read:

Line posts for Types 1 and 2 glare screens shall be 2 inch inside diameter galvanized steel pipe with a nominal weight of 3.65 pounds per linear foot. End, corner, brace, and pull posts for Type 1 Design A and B and Type 2 shall be 2 ½ inch inside diameter galvanized steel pipe with a nominal weight of 5.79 pounds per linear foot. Intermediate pull posts (braced line posts) shall be as specified for line posts.

The base material for the manufacture of steel pipes used for posts shall conform to the requirements of ASTM A 53, except the weight tolerance on tubular posts shall be applied as provided below.

Posts provided for glare screen will have an acceptance tolerance on the weight per linear foot, as specified, equal to plus or minus 5 percent. This tolerance will apply to each individual post.

All posts shall be galvanized in accordance with AASHTO M 181 Section 32. The minimum average zinc coating is per square foot of surface area. This area is defined as the total area inside and outside. A sample for computing the average of mass of coating is defined as a 12-inch piece cut from each end of the galvanized member.

9-16.6(5) Cable

This section including title is revised to read:

9-16.6(5) Vacant

9-16.6(6) Cable and Tension Wire Attachments

This section including title is revised to read:

9-16.6(6) Tension Wire Attachments

All tension wire attachments shall be galvanized steel conforming to the requirements of AASHTO M 232 unless otherwise specified. Eye bolts shall have either a shoulder or a back-up nut on the eye end and be provided with an eye nut where needed or standard hex nut and lock washer ⅜-inch diameter for tension wire and of sufficient length to fasten to the type of posts used. Turnbuckles shall be of the shackle end type, ½ inch diameter, with standard take-up of 6 inches and provided with ⅜ inch diameter pins.

9-16.6(9) Fabric Bands and Stretcher Bars

The first paragraph is revised to read:

Fabric bands shall be ⅛ inch by 1inch nominal. Stretcher bars shall be $^{3}/_{16}$ inch by ¾ inch nominal or $^{5}/_{16}$ inch diameter round bar nominal. A $^{5}/_{16}$ inch diameter round stretcher bar shall be used with Type 1. Nominal shall be construed to be the area of the cross section of the shape obtained by multiplying the specified width by thickness. A variation of minus 5-percent from this theoretical area shall be construed as “nominal” size. All shall be galvanized to meet the requirements of ASTM F 626.

9-20.AP9

Section 9-20, Concrete Patching Material, Grout, and Mortar
January 2, 2012

9-20.3(3) Grout Type 3 for Unconfined Bearing Pad Applications

This section is revised to read:

Grout Type 3 shall be a prepackaged material meeting the requirements of ASTM C 928 – Table 1, R2 Concrete or Mortar.

9-20.3(4) Grout Type 4 for Multipurpose Applications

In the third sentence of the first paragraph, the reference “0.40” is revised to read “0.45”.

9-23.AP9

Section 9-23, Concrete Curing Materials and Admixtures
April 2, 2012

9-23.2 Liquid Membrane-Forming Concrete Curing Compounds

In the first paragraph, “moisture loss” is revised to read “water retention”.

9-29.AP9

Section 9-29, Illumination, Signal, Electrical
April 2, 2012

9-29.10(2) Decorative Luminaries

The second sentence in the third paragraph is deleted.

9-29.25 Amplifier, Transformer, and Terminal Cabinets

In item No. 2.C., “Transformer 23.1 to 12.5 KVA” is revised to read “Transformer 3.1 to 12.5 KVA”.

9-34.AP9

Section 9-34, Permanent Marking Material
April 2, 2012

9-34.2 Paint

The second paragraph is revised to read:

> Blue and black paint shall comply with the requirements for yellow paint in Section 9-34.2(4) and Section 9-34.2(5), with the exception that blue and black paints do not need to meet the requirements for titanium dioxide, directional reflectance, and contrast ration.