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**General Notes**

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**6-02 - Concrete Structures**

- Note 1 All grout shall be mixed in accordance with the manufacturer's written recommendations. If aggregates extenders are to be used, they shall be limited to the class, if applicable, and the amount recommended by the manufacturer
  
- Note 2 The splices may only be used when and where shown in the plans or as approved by the WSDOT Bridge and Structures Branch.
  
- Note 3 The Project Engineers Office will need to forward a copy of the completed QPL page to the Fabrication Inspection Office for notification as soon as this material is approved for use.
  
- Note 4 Approved shop drawings are required before fabrication

**6-03 - Steel Structures**

- Note 1 The Project Engineers Office will need to forward a copy of the completed QPL page to the Fabrication Inspection Office for notification as soon as this material is approved for use.
  
- Note 2 Approved shop drawings are required before fabrication
  
- Note 3 Submit repair procedures for approval before repairs are started

**6-07 - Coating (Paint) Facility**

- Note 1 The Project Engineers Office will need to forward a copy of the completed QPL page to the Fabrication Inspection Office for notification as soon as this material is approved for use.
  
- Note 2 Approved shop drawings are required before fabrication

**6-10 - Precast Concrete Barrier**

- Note 1 The Project Engineers Office will need to forward a copy of the completed QPL page to the Fabrication Inspection Office for notification as soon as this material is approved for use.

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**6-12 - Precast Concrete Noise Barrier Walls**

Note 1 The Project Engineers Office will need to forward a copy of the completed QPL page to the Fabrication Inspection Office for notification as soon as this material is approved for use.

**6-13 - Precast Concrete Structural Earth Walls**

Note 1 The Project Engineers Office will need to forward a copy of the completed QPL page to the Fabrication Inspection Office for notification as soon as this material is approved for use.

Note 2 Approved shop drawings are required before fabrication

**8-02 - Chemical Pesticides**

Note 1 The licensed applicator or operator shall complete a Commercial Pesticide Application Record (DOT Form 540-509 EF) each day the pesticide is applied, and furnish a copy to the Engineer by the following business day.

**8-11 - Guardrail Terminal**

Note 1 Assembly and installation of Beam Guardrail Flared Terminals and Beam Guardrail Nonflared Terminals shall be supervised at all times by a manufacturer's representative, or an installer that has been trained and certified by the unit's manufacturer. A copy of the installer's certification shall be provided to the Engineer prior to installation. Assembly and installation shall be in accordance with the manufacturer's recommendations.

Note 2 When wood post and blocks received from the manufacturer are integral with the system they will require a Manufacturer's Certificate of Compliance per WSDOT Std Spec 1-06.3 for acceptance. The MCC will state they conform to WDOT standards for Grading and Treatment per WSDOT Std Spec 9-09.

Note 3 When wood post and blocks not integral with the system are received they shall have the QPL acceptance code 2110.

**9-02 - Bituminous Materials**

Note 1 Check Approved Mix Design for Anti-stripping requirements.

**9-04 - Joint and Crack Sealing Materials**

Note 1 Lubricating adhesive shall be as recommended by the manufacturer.

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**9-05 - Drainage Structures, Culverts, and Conduits**

- Note 1 Steel End Sections (Tapered) shall conform to Std. Plan B-80.20-00 or B-80.40-00 for size and shape of pipe shown in the contract plans.
  
- Note 2 Steel End Sections (Flared) shall conform to Std. Plan B-70.60-00 for size and shape of pipe shown in the contract plans.
  
- Note 3 Pipe shall be coated with a protective treatment in accordance to Std Spec. 9-05.4(3), 9-05.4(4) or 9-05.4(5), whichever is applicable and if required.
  
- Note 4 Aluminum End Sections (Flared) shall conform to Std. Plan B-70.60-00 for size and shape of pipe shown in the contract plans.
  
- Note 5 Joints for PVC pipe shall conform to ASTM D 3212 using elastomeric gasket conforming to ASTM F 477.
  
- Note 6 Gaskets meeting section 9-04.4(3) are required.
  
- Note 7 The Project Office will need to forward a copy of the completed QPL page to the Fabrication Inspection Office for notification as soon as this material is approved for use.
  
- Note 8 Gaskets meeting section 9-04.4(4) are required
  
- Note 9 Approved shop drawings are required before fabrication

**9-06 - Structural Steel / Related Material**

- Note 1 Project office will need to forward a copy of the completed QPL page to the Fabrication Inspection Office for notification as soon as this material is approved for use.
  
- Note 2 Approved shop drawings are required before fabrication

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**9-07 - Epoxy Coated Steel Reinforcing Bar**

- Note 1 Project office will need to forward a copy of the completed QPL page to the Fabrication Inspection Office for notification as soon as this material is approved for use.
  
- Note 2 This applicator is approved to bend steel reinforcing bar after epoxy application per Std Spec Section 9-07.1(2).

**9-09 - Timber and Lumber**

- Note 1 Timber and lumber must be marked with a certified lumber grade stamp provided by West Coast Lumber Inspection Bureau (WCLIB), Western Wood Products Association (WWPA), Pacific Lumber Inspection Bureau (PLIB), or a grading bureau certified by the American Lumber Standards Committee. A Grading Certificate must accompany each order of timber and lumber for use in structures as specified in Section 9-09.2. See Appendix B for examples of typical Grade Stamps.
  
- Note 2 Posts less than 6 x 6 may be accepted by visual inspection. Document that each post is stamped with the correct lumber grade.
  
- Note 3 The Project Office will need to forward a copy of the completed QPL page to the Fabrication Inspection Office for notification as soon as this material is approved for use.

**9-10 - Steel Piles / Casings**

- Note 1 If field welding is required, the project office will need to forward a copy of the completed QPL page to the Fabrication Inspection Office for notification as soon as this material is approved for use.

**9-10 - Concrete Structures**

- Note 2 Approved shop drawings are required before fabrication
  
- Note 3 The Project Engineers Office will need to forward a copy of the completed QPL page to the Fabrication Inspection Office for notification as soon as this material is approved for use.

**9-12 - Precast Concrete Catch Basins, Manholes and Inlets**

- Note 1 The Project Office will need to forward a copy of the completed QPL page to the Fabrication Inspection Office for notification as soon as this material is approved for use.

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**9-14 - Erosion Control and Roadside Plantings**

Note 1     Verify that the fertilizer formulation, as stated in the Manufacturer's Certification, is the same as specified in the Contract's Special Provisions. Pay particular attention to the percentage of nitrogen derived from either isobutylidene diurea (IBDU), cyclo-di-urea (CDU), or other source as specified. Retain a bag label showing content analysis.

**9-16 - Guardrail Posts and Blocks**

Note 1     Wood post and blocks will be marked with a certified lumber grade stamp provided by West Coast Lumber Inspection Bureau (WCLIB), Western Wood Products Association (WWPA), Pacific Lumber Inspection Bureau (PLIB), or a grading bureau certified by the American Lumber Standards Committee. See Appendix B for examples of typical Grade Stamps.

**9-18 - Precast Concrete Curb**

Note 1     The Project Engineers Office will need to forward a copy of the completed QPL page to the Fabrication Inspection Office for notification as soon as this material is approved for use.

Note 2     Approved shop drawings are required before fabrication

**9-19 - Precast Concrete Girders**

Note 1     The Project Office will need to forward a copy of the completed QPL page to the Fabrication Inspection Office for notification as soon as this material is approved for use.

**9-21 - Raised Pavement Markers**

Note 1     Adhesive for this lane marker may be either epoxy or bitumen.

Note 2     The adhesive for this lane marker shall be hot melt bituminous adhesive ONLY.

Note 3     Installation of this type of Raised Pavement Marker is not allowed on multi-lane divided highways.

Note 4     The verification sample shall consist of three (3) RPM's per job lot (from different boxes) for each color.

Note 5     This type of Raised Pavement Marker may be used as Recessed Pavement Markers. See Std. Plan M20.30-00

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<b>Specification Section -</b>	<b>Name</b>	<b>Note</b>
<b>9-22 - Monument Case</b>		
Note 1		Project office will need to forward a copy of the completed QPL page to the Fabrication Inspection Office for notification as soon as this material is approved for use.
<b>9-23 - Liquid Membrane-Forming Compounds</b>		
Note 1		Fugitive red dye must be added to the liquid membrane forming compound, per manufacturer's recommendations, before it may be used on a construction project.
<b>9-26 - Epoxy Resins</b>		
Note 1		See ASTM C 881 for epoxy type, grade and class definitions.
<b>9-28 - Fabricator of Permanent Signs</b>		
Note 1		The Project Office will need to forward a copy of the completed QPL page to the Fabrication Inspection Office for notification as soon as this material is approved for use.
<b>9-28 - Fabricator of Permanent Sign Structures</b>		
Note 2		Approved shop drawings are required before fabrication
<b>9-28 - Fabricator of Permanemt Signs and Sign Structures</b>		
Note 3		When the sign fabricator provides sign mounting hardware in a sealed package the package will be stamped or tagged "WSDOT INSPECTED" All other untagged or unstamped sign mounting hardware, sealed or otherwise, will require a "Manufacturer's Certificate of Compliance".
<b>9-29 - Illumination, Signals, Electrical</b>		
Note 1		Use ONLY wire/cable pulling compounds recommended by the wire/cable manufacturer
Note 2		Fuses with rejection ferrule are NOT APPROVED for in-line use. The letter "R" in the model designation usually denotes this type of fuse.
Note 3		This product may be incorporated into an existing system. In order to assemble a new Traffic Signal Controller Assembly the assembly manufacturer must have a WSDOT Approved Quality Control Program.

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**9-29 - Illumination, Signals, Electrical**

Note 4 The Project Office will need to forward a copy of the completed QPL page to the Fabrication Inspection Office for notification as soon as this material is approved for use.

Note 5 Verify that the correct size crimp splice is used and the proper tool is used for installation.

**9-30 - Water Distribution Materials**

Note 1 Fire Hydrants shall be of the type shown in the plans. Requests for substitutions in make and/or model must be approved by the contracting agency.

**9-31 - Elastomeric Bearing Pads**

Note 1 The Project Engineers Office will need to forward a copy of the completed QPL page to the Fabrication Inspection Office for notification as soon as this material is approved for use.

Note 2 Approved shop drawings are required before fabrication

**9-34 - Pavement Marking Material**

Note 1 This material is allowed as an alternate to a double application of paint. The thermoplastic material shall be applied at a minimum thickness of 30 mils, with coated intermixed and drop-on glass beads.

Note 2 This product is not allowed on Bituminous Surface Treatment (BST) pavement.

Note 3 This RPM is approved for long term application (up to 6 months). RPMs approved for permanent application may also be used.

Note 4 This RPM is approved for short term application (14 days or less). RPMs approved for permanent or long term application may also be used.

Note 5 This RPM is approved for short term (14 days or less) on seal coats.

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**9-34 - Pavement Marking Material**

Note 6 This material can be used to temporarily cover existing pavement markings.

**9-35 - Truck Mounted Attenuator**

Note 1 Units fabricated after 1998 must comply with NCHRP 350 requirements.

**GSP 54 - Bollards**

Note 1 Approved shop drawings are required before fabrication

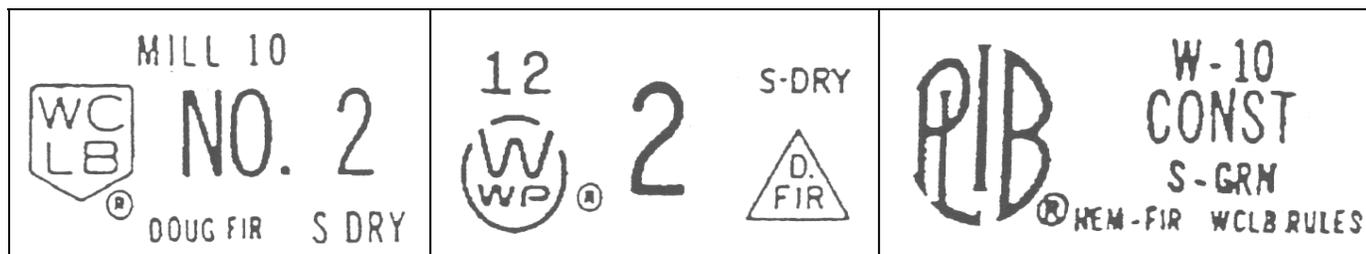
Note 2 The Project Engineers Office will need to forward a copy of the completed QPL page to the Fabrication Inspection Office for notification as soon as this material is approved for use.

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Section 9-09 - Timber and Lumber



Section 9-26 - Epoxy Resins

ASTM C 881-99 definitions for Types, Grades, and Classes of Epoxy Resins are as follows:

TYPE	APPLICATION	CLASS
<b>Type I</b>	Non-load bearing applications for bonding hardened concrete to hardened concrete and other materials and as a binder in epoxy mortar or epoxy concrete.	A, B, or C
<b>Type II</b>	Non-load bearing applications for bonding freshly mixed concrete to hardened concrete.	A, B or C
<b>Type III</b>	Bonding skid-resistant materials to hardened concrete, and as a binder in epoxy mortar or epoxy concrete used in traffic bearing surfaces (or surfaces subject to thermal or mechanical movements).	A, B or C
<b>Type IV</b>	Load bearing applications for bonding hardened concrete to hardened concrete and other materials and as a binder in epoxy mortar or epoxy concrete.	A, B or C
<b>Type V</b>	Load bearing applications for bonding freshly mixed concrete to hardened concrete.	A, B or C
<b>Type VI</b>	Bonding and sealing segmental pre-cast elements with internal tendons and for span-by-span erection when temporary post tensioning is applied.	D, E or F
<b>Type VII</b>	Non-stress carrying sealer for segmental pre-cast elements when temporary post tensioning is not applied as in span-by-span erection.	D, E or F

Grade 1	Grade 2	Grade 3
Low Viscosity	Medium Viscosity	Non-Sagging Consistency

Class A	Class B	Class C	Class D	Class E	Class F
Below 40 °F	40 to 60 °F	Above 60 °F	40 to 65 °F	60 to 80 °F	75 to 90 °F

Classes A, B, and C are defined for Types I through V, and Classes D, E, and F are defined for Types VI and VII, in accordance with the range of temperatures for which they are suitable. The temperature in question is usually that of the surface of the hardened concrete to which the bonding system is to be applied. This temperature may be considerably different from that of the air.