

READ THIS FIRST

This Project Spec Document may need additional modifications to suit your project. It is recommended that you proofread each section, paying attention to any “Notes” boxes such as this one--you should remove these “Notes” sections as you go. Also, do a search for all bracket characters “ [] “ as they are used to show you areas containing options or project specific details (you can use Microsoft Word’s Find feature {Ctrl-F} to jump to an open bracket “ [“ character quickly). Again, these bracket characters should be removed.

It is important that every paragraph be numbered to allow for easy referencing. If you use the document’s built in styles and formatting your outline should be fine (turn on the formatting toolbar by going to View > Toolbars > Formatting). Most paragraphs will use the style “Numbered Material” and can be promoted (Shift) or demoted (Shift-Tab).

You should not have to manually enter extra spaces, carriage returns or outline characters such as A, B, C, or 1.01, 1.02; the formatting will do this for you. The entire document is 11 pt. Arial. If you paste items in, you may need to reapply the “Numbered Material” format.

PART 1 GENERAL

1.01 DESCRIPTION

- A. The Contractor shall provide flaggers, signs, and other traffic control devices not otherwise specified as being furnished by the Port. The Contractor shall erect and maintain all construction signs, warning signs, detour signs, and other traffic control devices necessary to warn and protect the public at all times from injury or damage as a result of the Contractor’s operations, which may occur on highways, roads, drives, or streets, or terminals. No Work shall be done on or adjacent to the above locations until all necessary signs and traffic control devices are in place.
- B. These flaggers, signs, and other traffic control devices shall be used for the safety of the public, the Contractor’s employees, and Port’s personnel and to facilitate the movement of the traveling public. They may be used for the separation or merging of public and construction traffic when in accordance with a specific accepted traffic control plan.
- C. Upon failure of the Contractor to immediately provide flaggers; erect, maintain, and remove signs; or provide, erect, maintain, and remove other traffic control devices when directed to do so by the Engineer, the Port may, without further notice to the Contractor or the Surety, perform any of the above and deduct all of the costs from the Contractor’s payments.
- D. The Contractor shall be responsible for providing adequate flaggers, signs, and other traffic control devices for the protection of the Work and the public at all times regardless of whether or not the flaggers, signs, and other traffic control devices are directed by the Engineer, furnished by the Port, or paid for by the Port or by any modifications made by the Contractor. The Contractor shall be liable for injuries and damages to persons and property suffered by reason of the Contractor’s operations or any negligence in connection therewith.
- E. The Contractor shall advise the Engineer a minimum of two weeks prior to implementing any lane closures or diversions using a Construction Advisory Form.

1.02 CONFORMANCE TO ESTABLISHED STANDARDS

- A. Flagging, signs, and all other traffic control devices furnished or provided shall conform to the standards established in the latest adopted edition of the Manual on Uniform Traffic Control Devices (MUTCD) published by the U.S. Department of Transportation and the Modifications to the MUTCD for Streets and Highways for the State of Washington.

1.03 SUBMITTALS

- A. Traffic Control Supervision Designation
- B. Traffic Control Plan

PART 2 PRODUCTS

2.01 SIGNS, SIGNALS, AND DEVICES

- A. Post-mounted and wall-mounted traffic control and informational signs as specified herein.
- B. Manual and Automatic Traffic Control Signals: As approved by local jurisdictions.
- C. Traffic Cones and Drums, Flares and Lights: As approved by local jurisdictions.
- D. Flagger Equipment: As required by local jurisdictions.
- E. Manual on Uniform Traffic Control Devices (MUTCD) approved equipment.

2.02 FLAGGING, SIGNS, AND ALL OTHER TRAFFIC CONTROL DEVICES

- A. Traffic Control Labor
 - 1. The Contractor shall furnish all personnel for flagging, escorting, and for the setup and removal of all traffic control devices.
 - 2. Temporary traffic control devices and construction signs necessary to control traffic during construction operations.
 - 3. Flaggers and spotters shall have a current certification (flagging card) acceptable to the State Department of Labor and Industries (WAC 296-155-305). Workers engaged in flagging or traffic control shall wear reflective vests and hard hats. During hours of darkness, white overalls or white or yellow rain gear shall also be worn. The vests and other apparel shall be in conformance with "High Visibility Apparel" requirements of the Standard Specifications. During hours of darkness, flagger stations shall be illuminated to ensure that flaggers can easily be seen without causing glare to the traveling public. The Contractor shall furnish the MUTCD standard Stop/Slow paddles (18 inches wide, letters 6 inches high and reflectorized) for the flagging operations.
 - 4. Where required by local authorities, the Contractor shall arrange and pay for Law Enforcement personnel to assist in traffic control.
- B. Construction Signs
 - 1. All signs required by the accepted traffic control plan(s) as well as any other appropriate signs prescribed by the Engineer will be furnished by the [Port] [Contractor]. The Contractor shall provide the posts or supports and erect and maintain the signs in a clean, neat, and presentable condition until the necessity for them has ceased. All non-applicable signs shall be

removed or completed covered with either metal or plywood during periods when they are not needed. When the need for any of these signs has ceased, the Contractor, upon acceptance of the Engineer, shall take down these signs, posts, or supports. All posts or supports shall be removed from the project and shall remain the property of the Contractor. [The Port-furnished signs shall be returned to the Engineer in good condition. All such signs lost, stolen, damaged, or destroyed shall be replaced by the Contractor in kind at the Contractor's expense or their value will be deducted from the Contractor's payments.]

2. Construction signs will be divided into two classes. Class A construction signs are those signs that remain in service throughout the construction or during a major phase of the Work. They are mounted on posts, existing fixed structures, or substantial supports of a semi-permanent nature. Sign and support installation for Class A signs shall be in accordance with the Contract Plans or the Standard Plans. Class B construction signs are those signs that are placed and removed daily, or are used for short durations which may extend for one or more days. They are mounted on portable or temporary mountings. If it is necessary to add weight to the signs for stability, only a bag of sand that will rupture on impact shall be used. The bag of sand shall: (1) be furnished by the Contractor, (2) have a maximum weight of 40 pounds, and (3) be suspended no more than 1 foot from the ground. In the event of disputes, the Engineer will determine if a construction sign is considered as a Class A or B construction sign.
3. When Class A or B construction signs are required, the Work to provide these signs shall be:
 - a. Furnishing, removing and disposing of the posts or supports for the signs;
 - b. [Initial acquisition from the Engineer and ultimate return to the Engineer of the required Port-furnished signs;]
 - c. Initial installation and subsequent removal of both Class A and B construction signs; and
 - d. All other incidentals necessary for providing Class A or B construction signs according to the accepted traffic control plan(s).
4. Signs, posts, or supports that are lost, stolen, damaged, destroyed, or those which the Engineer deems to be unacceptable, while their use is required on the project, shall be replaced by the Contractor without additional compensation.

C. No Passing Zones

1. The striping of no passing zones that are to be obliterated in excess of 150 feet by paving operations shall be replaced by "Do Not Pass" and "Pass With Care" signs. The signs shall be located not less than 2 feet outside the usable shoulder or less than 7 feet above the edge of pavement. The number of necessary signs will be specified in the Contract provisions. The Contractor shall provide posts and install the Port-furnished signs. The signs shall be maintained by the Contractor until construction operations are complete. When the project includes striping by the Contractor, the

signs and posts shall be removed by the Contractor when the no passing zones are reestablished by striping. The signs shall be returned to the Port, and the posts will become the property of the Contractor. When the Contractor is not responsible for striping, the posts and signs shall become the property of the Port and will be removed by Port forces when the no passing zones are reestablished by striping. Payment to perform the Work required for this subsection will be under the item "Construction Sign Class A."

D. Temporary Traffic Control Devices

1. The Work required for this item shall be furnishing barricades, flashers, cones, barrels, and other channelization devices, unless a pay item is in the bid proposal for a specific device and the Contract provisions specify payment in a different manner. The item "Temporary Traffic Control Devices" includes:
 - a. Initial delivery to the project site (or temporary storage) in good repair and in clean usable condition,
 - b. Repair or replacement when they are damaged and they are still needed on the project, and
 - c. Removal from the project site when they are no longer needed on the project.

E. One-Way Piloted Traffic Control Through Construction Zone

1. The construction sometimes requires that traffic be maintained on a portion of the roadway during the progress of the Work using one-way piloted traffic control. If this is the case, the Contractor's operation shall be confined to one-half the roadway, permitting traffic on the other half. If, in the opinion of the Engineer, one-way piloted traffic control is necessary, it shall be provided for as follows:

Choose one of the following as applicable:

- a. [Port-Furnished One-Way Piloted Traffic Control. The Port will furnish, without cost to the Contractor; two flaggers to control traffic at the ends of the pilot car control area and will furnish a pilot car and driver to lead the traffic through the area. All other necessary flaggers within the limits of the pilot car control area shall be furnished by the Contractor as provided in Paragraph "Traffic Control Labor". If the Port is to provide piloted traffic control, the Contract provisions will prescribe the extent of the Port-Furnished One-Way Piloted Traffic Control.]
 - b. [Contractor-Furnished One-Way Piloted Traffic Control. The Contractor shall furnish the pilot car(s) and driver(s) for the pilot car control area. Any necessary flaggers shall be furnished by the Contractor as provided in Paragraph "Traffic Control Labor".]
2. As conditions permit, the Contractor shall, at the end of each day, leave the Work area in such condition that it can be traveled without damage to the Work, without danger to traffic, and without one-way piloted traffic control. The Engineer will be the sole judge as to whether or not piloting can be

dispensed with after working hours. If piloting is required after working hours due to carelessness or negligence on the part of the Contractor to properly condition the Work at the end of the day, such piloting costs shall be borne by the Contractor. If the Port is furnishing the piloting, the costs charged to the Contractor will include the pilot car, the pilot car driver, and the two flaggers.

3. The Contractor shall be responsible for protection of the Work and traffic at all times regardless of flagging and pilot car services furnished [by the Port], and the Contractor shall be liable for damages and injuries suffered by reason of the Contractor's operations or any negligence in connection therewith.

PART 3 EXECUTION

3.01 CONSTRUCTION PARKING CONTROL

- A. Control vehicular parking to prevent interference with public traffic and parking, access by emergency vehicles, and Owner's operations. Monitor parking of construction personnel's vehicles. Maintain vehicular access to and through parking areas. Prevent parking on or adjacent to access roads or in non-designated areas.

3.02 TRAFFIC CONTROL PERSONNEL

Edit/Include this paragraph as appropriate.

- A. Traffic Control Supervisor
 1. The Contractor shall designate an individual or individuals to perform the Traffic Control Supervisor's (TCS) duties for the project. The TCS shall be certified as a work site traffic control supervisor by one of the organizations listed below.
 - a. Advanced Traffic Safety Services Association (ATSSA)
 - b. Evergreen Safety Council (ESC)
 - c. Northwest Laborers Employees Training Trust (NWLETT)
 2. The TCS's duties shall include:
 - a. Discussing proposed traffic control measures and coordinating implementation of the Contractor-adopted traffic control plan(s) with the Engineer.
 - b. Coordinating all traffic control operation, including those of subcontractors, suppliers, and any adjacent construction or maintenance operation.
 - c. Coordinating the project's activities (such as ramp closures, road closures, and lane closures) with appropriate police, fire control agencies, city or county, Engineer, medical emergency agencies, school districts, and transit companies.
 - d. Inspecting traffic control devices for proper location, visibility, installation, message, cleanliness, and effect on the traveling public. Traffic control devices should be inspected each work shift except that Class A signs need to be checked only once a week. Traffic

control devices left in place for 24 hours or more should also be inspected once during the non-working hours when they are initially set up (during daylight or darkness, whichever is opposite of the working hours).

- e. Reviewing nighttime lighting and its effect on the traveling public.
 - f. Preparing a daily traffic report which shall be submitted to the Engineer with the Contractor's Daily Report to become a part of the project records. Include in the report such items as:
 - (1) When signs and traffic control devices are installed and removed,
 - (2) Locations of signs and traffic control devices,
 - (3) Revisions to the traffic control plan,
 - (4) Lighting utilized at night, and
 - (5) Observations of traffic conditions.
 - g. Ensuring that corrections are made if traffic control devices are not functioning as required. The TCS may make minor revisions to the traffic control plan to accommodate site conditions as long as the original intent of the traffic control plan is maintained and the revision has concurrence of the Engineer.
 - h. Overseeing all requirements of the Contract that contribute to the convenience, safety, and orderly movement of vehicular and pedestrian traffic.
 - i. Having the latest adopted edition of the MUTCD including the Modifications to the MUTCD for Streets and Highways for the State of Washington and applicable standards and specifications available at all times on the project.
 - j. Attending all project meetings where traffic management is discussed. Traffic control management shall be provided by the TCS on a 24-hour per day basis.
3. The Contractor shall maintain a 24-hour telephone number at which the TCS can be contacted. The Contractor shall make arrangements so the TCS will be available every working day, on call at all times, and available upon the Engineer's request at other than normal working hours. During non-work periods, the TCS shall be able to respond within a 45-minute time period after notification by the Engineer. The TCS shall have appropriate manpower, equipment, and material available at all times in order to expeditiously correct any deficiency in the traffic control system.
4. The Contractor shall identify an alternate TCS that can assume the duties of the assigned or primary TCS in the event of that person's inability to perform. Such alternate TCSs shall be adequately trained and certified to the same degree as the primary TCS.
5. A reflective vest and a hard hat shall be worn by the TCS.

- 6. The Contractor shall provide a vehicle for every TCS. The vehicle used by the TCS shall be equipped with a roof or post-mounted flashing amber light visible for 360 degrees.
 - 7. The TCS shall not act as a flagger except in an emergency or in relief for short periods of time. Possession of a current flagging card by the TCS is mandatory.
- B. Provide trained and equipped flaggers to regulate traffic when construction operations or traffic encroach on public traffic lanes.

3.03 FLARES AND LIGHTS

If Work is on a terminal, consult PM for current policy

- A. Use flares and lights during hours of low visibility to delineate traffic lanes and to guide traffic.

3.04 TRAFFIC CONTROL PLANS

- A. Traffic control plan or plans appearing in the Contract drawings show a method of handling traffic. The Contractor shall designate and adopt in writing the specific traffic control plan or plans required for their method of performing the Work. All flaggers are to be shown on the traffic control plan except for emergency situations. If the Contractor's methods differ from the Contract traffic control plan(s), the Contractor shall propose modification of the traffic control plan(s) by showing the necessary construction signs, flaggers, and other traffic control devices required for the project. The Contractor's letter designating and adopting the specific traffic control plan(s) or any proposed modified plan(s) shall be submitted to the Engineer for acceptance at least ten calendar days in advance of the time the signs and other traffic control devices will be required.
- B. Contractor shall obtain any approvals of traffic control plans required by local jurisdictions.

3.05 HAUL ROUTES

- A. [See Section 01 55 16 - Haul Routes for specific requirements in addition to the following general requirements.]

OR

- B. [Drawings indicate haul routes designated by authorities for use of construction traffic. Contractor shall secure any necessary Permits/Approvals.]
- C. Confine construction traffic to designated haul routes.
- D. Provide traffic control at critical areas of haul routes to regulate traffic or to minimize interference with public traffic.

3.06 TRAFFIC SIGNS AND SIGNALS

- A. At approaches to site and on site, install at crossroads, detours, parking areas, and elsewhere as needed to direct construction and affected public traffic.
- B. Install and operate manual or automatic traffic control signals to direct and maintain orderly flow of traffic in areas under Contractor's control, and areas affected by Contractor's operations at all times.
- C. Relocate as Work progresses, to maintain effective traffic control.

3.07 REMOVAL

- A. Remove equipment and devices [when no longer required] [at Substantial Completion]. Restore surfaces to original condition. Remove post settings to a depth of two (2) feet.

PART 4 MEASUREMENT AND PAYMENT

4.01 GENERAL

- A. No separate measurement or payment will be made for the Work required by this section. The cost for this portion of the Work will be considered incidental to, and included in the payments made for the applicable bid items in the [Schedule of Unit Prices] [Lump Sum price] bid for the Project. [If FHWA (WSDOT) funding involved in project, unit prices may be required.]

End of Section
