

Special Provisions for Central Oregon Intergovernmental Council

2022 Bend and Redmond Bus Stop Improvements Project

April 2022

Owner:

Central Oregon Intergovernmental
Council
334 NE Hawthorne Ave
Bend, OR 97701

The logo for COIC (Central Oregon Intergovernmental Council) consists of the letters "COIC" in a bold, blue, sans-serif font.

Engineer:

Century West Engineering
1020 SW Emkay Drive, Suite 100
Bend, OR 97702
Phone: 541.322.8962

The logo for Century West Engineering features a stylized graphic of three slanted parallel lines to the left of the text "CENTURY WEST" in a bold, sans-serif font. Below this, the word "ENGINEERING" is written in a smaller, spaced-out, all-caps sans-serif font.

Table of Contents

SECTION 00210 - MOBILIZATION.....	ERROR! BOOKMARK NOT DEFINED.
SECTION 00220 - ACCOMMODATIONS FOR PUBLIC TRAFFIC.....	ERROR! BOOKMARK NOT DEFINED.
SECTION 00221 – COMMON PROVISIONS FOR WORK ZONE TRAFFIC CONTROL.....	ERROR! BOOKMARK NOT DEFINED.
SECTION 00222 - TEMPORARY TRAFFIC CONTROL SIGNS	2
SECTION 00280 - EROSION AND SEDIMENT CONTROL	2
SECTION 00305 - CONSTRUCTION SURVEY WORK.....	2
SECTION 00310 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS	2
SECTION 00330 - EARTHWORK.....	3
SECTION 00640 - AGGREGATE BASE AND SHOULDERS	3
SECTION 00744 - ASPHALT CONCRETE PAVEMENT.....	3
SECTION 00759 - MISCELLANEOUS PORTLAND CEMENT CONCRETE STRUCTURES	4
SECTION 00860 - LONGITUDINAL PAVEMENT MARKINGS - CURB	5
SECTION 00905 - REMOVAL AND REINSTALLATION OF EXISTING SIGNS.....	7
SECTION 00930 – METAL SIGN SUPPORTS.....	7
SECTION 01030 - SEEDING.....	7
SECTION 01040 - PLANTING	7
SECTION 02001 - CONCRETE.....	7
SECTION 02050 - CURING MATERIALS.....	8
SECTION 02630 - BASE AGGREGATE	9

SECTION 00210 - MOBILIZATION

Comply with Section 00210 of the Standard Specifications.

SECTION 00220 - ACCOMMODATIONS FOR PUBLIC TRAFFIC

Comply with Section 00220 of the Standard Specifications modified as follows:

00220.02(a) General Requirements - Add the following bullets) to the end of the bullet list:

- When an abrupt edge is created by excavation, protect traffic according to the "Excavation Abrupt Edge" and the "Typical Abrupt Edge Delineation" configurations shown on the Standard Drawings.

00220.03(b) Closures - Add the following bullet to the end of this section:

- The City of Bend & City of Redmond will require contractor to submit traffic control plans for approval prior to construction.
- Contractor shall obtain a Temporary Traffic Control Permit from the City of Bend prior to construction.
- Contractor shall follow the "City of Redmond Lane & Street Closures Required Notifications and Advisories" in solicitation.

00220.40(e)(1) Closed Lanes - Replace this subsection, except for the subsection number and title, with the following:

Single Lane Closures – One Traffic Lane may be closed during the following times:

- At the discretion of the City of Bend and City of Redmond

SECTION 00221 - COMMON PROVISIONS FOR WORK ZONE TRAFFIC CONTROL

Comply with Section 00221 of the Standard Specifications

SECTION 00222 – TEMPORARY TRAFFIC CONTROL SIGNS

Comply with Section 00222 of the Standard Specifications.

SECTION 00280 - EROSION AND SEDIMENT CONTROL

Comply with Section 00280 of the Standard Specifications modified as follows:

00280.06 Erosion and Sediment Control Manager - Delete this subsection.

00280.62 Inspection and Monitoring - Replace this subsection, except for the subsection number and title, with the following:

Inspect the Project Site and all ESC devices for potential erosion or sediment movement on a weekly basis and when 1/2 inch or more of rainfall occurs within a 24-hour period, including weekends and holidays.

If a significant noncompliance or serious water quality issue occurs that could endanger health or the environment, verbally report it to the Engineer within 24 hours.

SECTION 00305 - CONSTRUCTION SURVEY WORK

Comply with Section 00305 of the Standard Specifications.

SECTION 00310 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS

Comply with Section 00310 of the Standard Specifications modified as follows:

00310.90 Payment - Add the following to the end of this subsection:

No separate or additional payment will be made for removal or disposal Work included in Section 00330 according to 00310.02.

00310.92 Separate Item Basis - Add the following Pay Item to the Pay Item list:

- (i) Removal of Walk, Curb, Surfacing..... Square Yard

Add the following to the end of this subsection:

Item (i) includes all removal Work associated with bus stop improvements, including but not limited to PCC Saw Cutting. Item (i) does not include Asphalt Pavement Saw Cutting.

SECTION 00330 - EARTHWORK

Comply with Section 00330 of the Standard Specifications modified as follows:

00330.80 Measurement – Replace the entire section with the following paragraph:

No measurement for quantities will be made for excavation required for sidewalk and bus pad base aggregate.

00330.90 Payment – Replace the entire section with the following paragraph:

No payment will be made for quantities for excavation required for sidewalk and bus pad base aggregate.

00330.92 Kinds of Incidental Earthwork - Add the following bullets to the end of the bullet list:

- Earthwork and excavation required for bus pad and sidewalk base aggregate.

SECTION 00640 - AGGREGATE BASE AND SHOULDERS

Comply with Section 00640 of the Standard Specifications.

SECTION 00744 - ASPHALT CONCRETE PAVEMENT

Comply with Section 00744 of the Standard Specifications modified as follows:

00744.11(a) Asphalt Cement - Add the following to the end of this subsection:

Provide **PG 64-28** grade asphalt cement for this Project.

00744.44(b) Drop-Offs - Replace the bullet that begins “Provide warning signs and markings...” with the following bullet:

- Provide warning signs and markings according to Sections 00221, 00222, 00224 and 00225 where abrupt or sloped edge drop-offs greater than 1 inch in height occur.

00744.90 Payment – Replace this subsection, except for the subsection number and title, with the following:

The accepted quantities of ACP incorporated into the Project, whether or not recycled materials are used, will be paid for at the Contract unit price, per ton, for the item “Level 3, 1/2 inch ACP”.

Payment will be payment in full for furnishing and placing all materials, and for furnishing all Equipment, labor, and Incidentals necessary to complete the Work as specified.

No separate or additional payment will be made for:

- Asphalt cement, mineral filler, lime, and anti-stripping or other additives

SECTION 00759 - MISCELLANEOUS PORTLAND CEMENT CONCRETE STRUCTURES

Comply with Section 00759 of the Standard Specifications modified as follows:

Add the following subsection:

00759.03(d) Corrective Action Plan - Unless minor corrective actions are approved by the engineer, deficient panels shall be replaced at the Contractor's expense.

At least 21 Calendar Days before concrete Structures Work is scheduled to begin, submit a corrective action plan. The corrective action plan shall address procedures to correct deficient Structures through minor corrective action or replacement according to 00759.55(a), and include:

- List of minor corrective actions that will be used to correct deficiencies, according to 00759.50 and 00759.55.
- Procedures for performing corrective action.
- Proposed concrete grinding Equipment and method of grinding.
- Proposed concrete repair Material used for resurfacing ground concrete surfaces according to Section 02015.
- Construction activities, Equipment and staging necessary to complete corrective action Work.

The Engineer will review the corrective action plan(s) and provide a response to the Contractor within 5 Days after receiving the plan. Do not begin concrete Structure Work until the corrective action plan is approved by the Engineer.

00759.50(a) General - Add the following paragraphs to the end of this subsection:

In addition, finish concrete surfaces of Structures to be within the established Slopes and dimensions allowed by the Standard Drawings and Plans. Repair or remove and replace Structures not meeting the Standard Drawings and Plans at no additional cost to the Agency.

Submit a corrective action plan for each non-compliant Structure after receiving notice of non-compliance from the Engineer. Perform correction of defects according to 00759.55.

00759.50(c) Driveways, Walks, and Surfacing - Replace this subsection, except for the subsection number and title, with the following:

Prevent segregation of the concrete during placement. Strike-off the concrete to the grade shown, and float the surface smooth. After the water sheen disappears, edge the joints and remove edging tool marks prior to final finishing. Lightly cross-broom the surface to a uniform texture. Do not trowel joints or edges after brooming surface.

The 24 inch smart level will be used to measure bus pad and sidewalk cross slopes on the Pedestrian Access Route, Loading and Alightment Zones, Shelter and Bench pads.

Add the following subsection:

00759.55 Correction of Deficient Structures - Unless otherwise approved, notify the Engineer before performing corrective action. Correct deficiencies at no additional cost to the Agency. Perform corrective actions as directed, according to the approved corrective action plan, and according to the following:

(a) Minor Corrective Action - Submit Equipment and procedure for minor corrective action to the Engineer for approval. Minor corrective action can be performed to correct a deficiency up to 1 square foot per panel. Limit minor corrective action to one area per panel. Perform minor corrective action according to the following:

(1) Concrete Grinding - Grinding to correct high area deficiencies is limited to 3/16 inch. Use equipment meeting the requirements of 00759.23. Resurface all ground concrete surfaces according to 00759.55(a)(2).

(2) ACP Grinding - Taper grind to match existing Pavement with a minimum grinding width of 1 foot for each 1/4 inch of ACP removed.

(b) Acceptance of Structures - Once the corrective work or replacement has been completed, acceptance will be based on the Engineer's inspection and approval of the Structure.

00759.90 Payment – Modify this section as follows:

Delete the following pay items:

- (l) Truncated Domes on New Surfaces
- (m) Truncated Domes on Existing Surfaces

Add the following pay items and paragraph:

- (o) Concrete Walks, 4" Thick
- (p) Concrete Bus Shelter Pad, 6" Thick

Items (o) and (p) include restoration of pavers as necessary.

Add the following sentence to the end of the paragraph that begins "No separate or additional payment will be..."

No separate or additional payment will be made for truncated dome detectable warning panels.

SECTION 00860 - LONGITUDINAL PAVEMENT MARKINGS - CURB

Comply with Section 00860 of the Standard Specifications modified as follows:

Materials

00860.10 Materials – Furnish yellow paint, color #13538 from the QPL.

00860.45 Installation - Replace this subsection with the following:

- Apply two separate applications of painted curb markings. Retrace the second application directly over the first application, within 1/16 inch as follows:
 - Apply the second application after 2 hours but within 48 hours of the first application.
- Apply each painted marking application at a thickness of 15 mils wet, equivalent to 17 gallons per mile for a 4 inch wide solid stripe.
- Apply reflective elements for each application at a minimum rate of 5 pounds per gallon of paint. Embed, by means of paint wicking, a minimum of 80 percent of the reflective elements in the paint to a minimum depth of 50 percent of their diameter.

Minimum initial retroreflectivity shall be the following:

- Yellow – 200 mcd/m²/lx

00860.80 Measurement - Replace this subsection with the following:

The quantities of painted curb markings will be measured on the length basis. Painted curb markings shall the cover the entire width and face of curb.

00860.90 Payment - Replace the paragraph that begins with “The accepted quantities...” with the following:

The accepted quantities of painted curb markings will be paid for at the Contract unit price, per foot, for the item “Curb Marking, Paint.

SECTION 00905 - REMOVAL AND REINSTALLATION OF EXISTING SIGNS

Comply with Section 00905 of the Standard Specifications.

SECTION 00930 - METAL SIGN SUPPORTS

Comply with Section 00930 of the Standard Specifications modified as follows:

00930.80 Measurement – Replace the entire section with the following sentence: Measurement will be made on a per each basis.

00930.90 Payment - Modify this subsection as follows:

(q) Perforated Steel Square Tube Anchor Sign Supports.....each

SECTION 01030 - SEEDING

Comply with Section 01030 of the Standard Specifications modified as follows:

01030.13(f) Types of Seed Mixes - Add the following to the end of this subsection:

Provide the following seed mix formulas:

- **Lawn Seeding**

SECTION 01040 - PLANTING

Comply with Section 01040 of the Standard Specifications.

SECTION 02001 - CONCRETE

Comply with Section 02001 of the Standard Specifications modified as follows:

02001.02 Abbreviations and Definitions: Replace the sentence that begins “**Pozzolans** - Fly ash, silica fume...” with the following sentence:

Pozzolans - Fly ash, natural Pozzolans, silica fume, and high-reactivity Pozzolans.

Replace the sentence that begins “**Supplementary Cementitious Materials** - Fly ash, silica fume...” with the following sentence:

Supplementary Cementitious Materials - Pozzolans and ground granulated blast furnace slag.

02001.15(a) Current Mix Designs - Replace this subsection, except for the subsection number and title, with the following:

Mix designs that meet the requirements for the specified class of concrete and are currently being used or have been used within the past 24 months on any project, public or private, may be submitted for review. Provide individual test results that comprise the average if more than one data point exists. For paving designs the flexural strength testing must be from within the last two years. For HPC designs the length change and permeability tests must be from within the last two years.

02001.20(a) Strength - Replace Table 2001-1 with the following Table 2001-1:

Table 02001-1

Concrete Strength and Water/Cementitious Material (w/cm) Ratio		
Type of Concrete	Strength f'_c (psi)	Maximum w/cm Ratio
Structural	3300	0.50
	3300 (Seal)	0.45
	4000	0.48
	4000 (Drilled Shaft)	
	HPC4500	0.40
	HPC(IC)4500	
5000 +		
Paving	4000	0.44
PPCM's (with cast-in-place decks and no entrained air)	5000	0.48
	5500	0.44
	6000 +	0.42

SECTION 02050 - CURING MATERIALS

Comply with Section 02050 of the Standard Specifications modified as follows:

02050.10 Liquid Compounds - Replace the paragraph that begins "Furnish liquid membrane-forming curing..." with the following paragraph:

Furnish liquid membrane-forming curing compounds from the QPL and meeting the requirements of ASTM C309. Before use, submit a one quart sample from each lot for testing. Samples will be

tested according to ODOT TM 721. Samples are not required for curing compounds used on Commercial Grade Concrete.

SECTION 02630 – BASE AGGREGATE

Comply with Section 02630 of the Standard Specifications.

Size Number	Nominal Size Square Openings	Sieve Size											
		(2½ in.)	(2 in.)	(1½ in.)	(1 in.)	(¾ in.)	(½ in.)	(¾ in.)	(No. 4)	(No. 8)	(No. 16)	(No. 50)	(No. 200)
3	(2 to 1 in.)	100	90 to 100	35 to 70	0 to 15	—	0 to 5	—	—	—	—	—	**
357*	(2 in. to No. 4)	100	95 to 100	—	35 to 70	—	10 to 30	—	0 to 5	—	—	—	**
4	(1½ to ¾ in.)	—	100	90 to 100	20 to 55	0 to 15	—	0 to 5	—	—	—	—	**
467*	(1½ to No. 4)	—	100	95 to 100	—	35 to 70	—	10 to 30	0 to 5	—	—	—	**
5	(1 to ½ in.)	—	—	100	90 to 100	20 to 55	0 to 10	0 to 5	—	—	—	—	**
56	(1 to ¾ in.)	—	—	100	90 to 100	40 to 85	10 to 40	0 to 15	0 to 5	—	—	—	**
57	(1 to No. 4)	—	—	100	95 to 100	—	25 to 60	—	0 to 10	0 to 5	—	—	**
6	(¾ to ¾ in.)	—	—	—	100	90 to 100	20 to 55	0 to 15	0 to 5	—	—	—	**
67	(¾ to No. 4)	—	—	—	100	90 to 100	—	20 to 55	0 to 10	0 to 5	—	—	**
68	(¾ to No. 8)	—	—	—	100	90 to 100	—	30 to 65	5 to 25	0 to 10	0 to 5	—	**
7	(½ to No. 4)	—	—	—	—	100	90 to 100	40 to 70	0 to 15	0 to 5	—	—	**
78	(½ to No. 8)	—	—	—	—	100	90 to 100	40 to 75	5 to 25	0 to 10	0 to 5	—	**
8	(¾ to No. 8)	—	—	—	—	—	100	85 to 100	10 to 30	0 to 10	0 to 5	—	**
89	(¾ to No. 16)	—	—	—	—	—	100	90 to 100	20 to 55	5 to 30	0 to 10	0 to 5	**

* Use two or more separated sizes which when combined meet these gradation limits.

** See 02690.20(a). Do Not evaluate material passing the No. 200 sieve according to 00165.40.