

**Project:** OR38: Luder Creek Culvert Replacement  
**Highway:** Umpqua Highway  
**Designer:** Eric Vought  
**County:** Douglas County

**Contract #:**  
**Key #:** 18264  
**Mile Point:** 11.67 to 11.98  
**Bid Date:**

**Note: This Form has been updated since this review was performed. Please use the revised fillable PDF form available from Section N.1 in Appendix N.**

COMPUTER FILE INDEX

CHK	IN	N/A	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	All files listed are included in submittal
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	All alignment file names match alignment names on plan sheets
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Project data including name, highway, county, contract number, key number, project limits and bid date provided
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	File naming is consistent, logical and no longer than 28 characters
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Files do not include restricted characters listed in Appendix M of the ODOT HDM

BID ITEM QUANTITY CALCULATIONS

CHK	IN	N/A	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Quantity calculations for all bid items
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Quantity spreadsheets included
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hand calculations included
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Inroads volume reports included
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Quantities on estimate match quantities on plan sheets for earthwork, aggregate and asphalt

ALIGNMENT DATA

CHK	IN	N/A	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Bearings and curve data match plans
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Profile grades and vertical curves match plans
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PC, PI and PT stations match plans
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Check superelevation data included with profiles against superelevation details in plan set. Check that vertical curves are include in electronic design
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Descriptions included for all alignments
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Check integrity of each horizontal and vertical alignment using InRoads element tools to ensure continuity and direction
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Alignments not used for final design removed from alignment data, such as alternative design alignments

SURFACE DATA

CHK	IN	N/A	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Enough surfaces included to define project design including ditches, ponds, finish ground at abutments, and other graded areas
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Separate LandXML files for each surface
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Display features and check horizontally against design file
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Display components, features and triangles in a 3D file and look from many angles to find irregularities or bumps in the surface and check surface to surface for a good match
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Display contours in 3D file at one tenth foot interval and look for irregularities and gaps especially at corridor matches
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Use "smooth shadows" and "thematic" display styles under view attributes to help identify triangulation errors (HDM 16.3.6)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Cut cross sections for each surface and check offsets, elevations, shoulder slopes and super elevation every 25 feet and at key stations
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Check that low points in surface match inlet locations
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Finish grade cross slope/curbs match at project limits

CORRIDOR MAP INDEX

CHK	IN	N/A	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Display surface boundaries and verify names and locations in map index match surfaces names and locations

CROSS SECTION DATA

CHK	IN	N/A	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Cross sections included for each alignment
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Cross sections include labels to identify associated alignments
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Spacing no more than 25 feet apart, should match spacing used for quantity calculations
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Key features labeled with offset and elevation (centerline, edge of pavement, top face of curb, etc.)

CHK	IN	N/A	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Cross sections included at key stations (typical section changes, alignment cardinal points, drainage facilities, taper start and stop locations, guardrail/barrier start/stop locations, centerline of approaches, curb/pavement return points, luminaire and signal pole locations
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Cross sections include labels to identify alignment
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Check offsets, elevations and superelevations every 25 feet and at key stations

**Notes:**

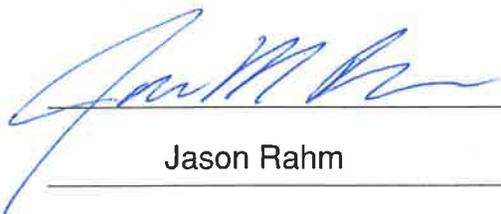
CHK: Item has been reviewed and is complete and accurate for the purpose of bidding.

IN: Item has been reviewed and is incomplete/insufficient for the purpose of bidding. See comment form for additional information.

N/A: Item is not applicable to the project for the purpose of bidding.

Reviewer to provide completed comment form and any additional documents (such as rendered views, thematic views, etc.) in pdf form, which communicate the design issue(s) requiring resolution to the designer.

**Completed by:**



Reviewer (signature)

Jason Rahm

Reviewer (print name)

Date

10/12/15

**Acknowledged by:**



Designer (signature)

Eric Vought

Designer (print name)

12/03/2015

**Comments:**

See attached comment form.