

<b>Contract No.:</b>	<b>EA No.:</b> IN7872	<b>Lab No.:</b>	<b>05-000966</b>
Project: CONCRETE MIX DESIGN- STRUCTURAL CLASS 30	County:	<b>Data Sheet No.:</b> NONE	
Highway:		FA No.:	
Contractor:		Bid Item No.:	
Project Manager:	Org Unit:	Sample No.:	NA
Submitted By: GORDON DRAKE	Org Unit: OBEC	Qty Represented:	NA
Material Source: EUGENE SAND & GRAVEL		DATE-Sampled: NA	Received: 05/ 1/25
		Tested: 05/ 3/21	Reported: <b>MAR 22 2005</b>
<b>Type of Test: Mix Design Review - Structural</b>	<b>Use: Class 30.0-19.0 mm</b>	<b>- Class 4350 psi</b>	

**REVIEW OF CONTRACTOR CONCRETE MIX DESIGN - TM 741x - METRIC**

Mix Producer: EUGENE SAND & GRAVEL Contractor Mix Design No.: ESG 261

The request to review Structural Class 30 concrete mix design was evaluated according to the 2002 Standard Specifications.

Average Compressive Strength: 34.0 MPa @ 28 days

Based on a review of the mix proportions and the available information it has been determined that the mix design complies with the specifications. This mix design is approved for use on ODOT projects. Use in accordance with and as allowed by project Special Provisions.

Mix proportions as submitted by : EUGENE SAND & GRAVEL Exposure : MODERATE

Cement	280 kg/m3	GLACIER NW	Type I Dalian ONODA
Fly Ash	70 kg/m3	Boral	Class C Centralia
19-4.75	1090 kg/m3 SSD	Gssd : 2.682 Abs : 2.0 %	Source : 20-048-3
4.75-0	649 kg/m3 SSD	Gssd : 2.560 Abs : 4.3 %	Source : 20-048-3 FM : 2.88
Water	162 kg/m3	W/C Ratio : 0.46	Slump : 125 mm
Air Content	5.0 %		
Density	2251.1 kg/m3		
	Air Entrainment Agent : Degussa/AE-90		
	Water Reducer : Degussa/Pozzolith 80		

This report does not supersede, delete or amend the project specifications. Our review of this mix design does not relieve the Contractor of the responsibility to produce satisfactory concrete.

741X = \$ 0.	<b>REMARKS:</b> Mix Design <b>DOES</b> comply with specifications.  *	<b>TOTAL CHARGES: \$ 0.00</b>
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REPORT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT WRITTEN APPROVAL OF THIS LABORATORY.

*Norm Davis*  
Laboratory Services Manager