

MIX DESIGN REVIEW CHECKLIST

CS-JN PW-7018		JMF # P1-SM-B2 McCoig Plant M-40		
REVIEWER Ian Duncan		APPROVED ☒	REJECTED ☐	DATE 07/06/20
THE SUBMITTAL MUST INCLUDE THE FOLLOWING:			YES	NO
Form 1976 – Job Mix Formula (JMF) Concrete Field Communication			☒	☐
Source of Materials			☒	☐
Batch Weights of Constituent Materials (Dry)			☒	☐
For Optimized Gradations Only – Individual Aggregate Gradations			☐	☐
Specific Gravity of Constituent Materials (Dry - Required, SSD - Optional)			☒	☐
Typical Ranges: Type I Portland Cement: 3.15 (approximate) Class F Fly Ash: 2.20 – 2.70 Class C Fly Ash: 2.55 – 2.80 Slag Cement: 2.85 – 2.95 Coarse Aggregate: 2.55 – 2.85 Intermediate Aggregate: 2.55 – 2.85 Fine Aggregate: 2.60 – 2.80				
Dry Loose or Dry Rodded Unit Weight of Coarse Aggregate			☒	☐
Water/Cementitious Ratio (w/cm) – 0.45 max			☒	☐
Volume (dry, rodded) of coarse aggregate per unit volume concrete – 65 – 75% (inclusive)			☒	☐
Aggregate Absorptions and Correction Factors			☒	☐
Typical Absorptions: Coarse Aggregate: ≤ 2.5% Intermediate Aggregate: ≤ 2.5% Fine Aggregate: ≤ 2.0%				
Alkali-Silica Reactivity (ASR) testing results for fine aggregate			☒	☐
Date of completion within the last 2 years			☒	☐
Conforms with one of the methods in c.5.A of 12SP604B			☒	☐
STRENGTH, COMPRESSION				
The Lower Specification Limit (LSL) at 28 days, or			☒	☐
70% of the Lower Specification Limit (LSL) at 7 days (Method 1 verification only)			☐	☐
SUPPLEMENTAL CEMENTITIOUS MATERIALS (SCM)				
If Used, Maximum Slag Cement Replacement is 40% (Minimum replacement 25% for P1M and DM)			☒	☐
If Used, Maximum Fly Ash Replacement is 40% (Minimum replacement 25% for P1M and DM)			☐	☐
If Both Are Used, They Must Not Exceed 40% of Cementitious Material			☐	☐

DOCUMENTATION

Air Content	6.52	(%)
Slump	4.63	Inch
Compressive Strength	5510	Psi
Concrete Age at Time of Test	28	Days
Verification Method Use (ref. c.5.B.2 of 12SP604B)	1 ☐ 2 ☒ 3 ☐ 4 ☐	

QPL/APPROVED SOURCE CHECK

	YES	NO	N/A
Coarse Aggregate	☒	☐	☐
Intermediate Aggregate	☐	☐	☒
Fine Aggregate	☒	☐	☐
Cement	☒	☐	☐
Fly Ash	☐	☐	☒
Slag Cement	☒	☐	☐
Admixtures	☒	☐	☐
Specified Dosage Greater Than Minimum or Within Dosage Range	☒	☐	☐

CEMENTITIOUS CONTENT

Meets Requirements (ref. Table 1 of 12SP604B)	☐	☐	
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YIELD AND OPTIMIZED GRADATION CHECK

Mix Design Yields (Use Concrete Job Mix Formula Yield Calculator)	☒	☐	
If Used, Optimized Aggregate Gradation Meets Appendix 1 requirements of 12SP602D	☐	☐	☐

NOTES/COMMENTS

JMF P1-SW is approved for use in curb, sidewalk, driveways, pavement water reducing admixture used. Maximum time to discharge = 60 minutes