



WEAVER GENERAL CONSTRUCTION COMPANY
 3679 S. Huron St., Suite 404
 Englewood, CO 80110
 Phone: (303) 789-4111 FAX: (303) 789-4310

SUBMITTAL TRANSMITTAL

January 12, 2011

WGC Submittal No: 03300-009.C

PROJECT: **Harold Thompson Regional WRF**
 Birdsall Rd.
 Fountain, CO 80817
 Job No. 2908

ENGINEER: **GMS, Inc.**
 611 No. Weber St., #300
 Colorado Springs, CO 80903
 719-475-2935 Roger Sams

OWNER: **Lower Fountain Metropolitan
 Sewage Disposal District**
 901 S. Santa Fe Ave.
 Fountain, CO 80817
 719-382-5303 James Heckman

CONTRACTOR: **Baker Concrete Construction**
 1904 Jasper Street
 Aurora, CO 80011
 937-536-9000 Nick Dewald

SUBJECT: Resubmittal of Concrete Mixture Design for Walls and Slabs

Note: Attached you will find the concrete re-submittal for Harold Thompson. As previously stated, Baker Concrete is does not recommend placing low slump concrete in 26' tall walls. Baker agrees with our ready mixed supplier's comments below regarding the need for a higher slump in the walls/columns/beams/mats.

SPEC SECTION: 03300 - Cast-In-Place Concrete

PREVIOUS SUBMISSION DATES: 10/22/10

DEVIATIONS FROM SPEC: ___ YES X NO

CONTRACTOR'S STAMP: This submittal has been reviewed by Weaver General Construction and approved with respect to the means, methods, techniques, & safety precautions & programs incidental thereto. Weaver General Construction also warrants that this submittal complies with contracted documents and comprises on deviations thereto:

Contractor's Stamp:

Engineer's Stamp:

Date: 12/28/10
 Reviewed by: H.C. Myers
 (X) Reviewed Without Comments
 () Reviewed With Comments

**ENGINEER'S
 COMMENTS:** _____



Rocky Mountain Premix, Inc.
 2895 Capital Drive
 Colorado Springs, CO 80915
 Office: (719) 591-8080
 Fax: (719) 550-8000
 Dispatch: (719) 638-8000

Concrete Mixture Design # A70F (Walls, Footings, and General Use)

MIX DESIGN MATERIALS

Material	Amount / Cubic Yard		Specific Gravity
Sand	1300	lbs.	2.60
Aggregate Size 57/67	1590	lbs.	2.64
Cement (Type I/II)	559	lbs.	3.15
Fly Ash (Class F)	99	lbs.	2.34
Water	263	lbs. (31.6 gal.)	1.00
POLYHEED 997 (water reducer)	45.0	oz. (6.84 oz./cwt)	n/a
MB AE 90 (air entrainment)	8.0	oz. (1.22 oz./cwt)	n/a

DESIGN PHYSICAL PROPERTIES (As Tested)

Unit Weight	141.1	lbs./cu. Ft.
W/(C+P) Ratio	0.40	
Air Content	5.6	%
Slump	5	in.
Percent Fly Ash	15	%
Cementitious Content	658	lbs.
Percent Coarse Agg.	55	%
Yield	1.00	cy

SPECIFIED PHYSICAL PROPERTIES

Compressive Strength F _c	4500	psi (Min)
W/(C+P) Ratio	0.42	(Max.)
Air Content	5-7	%
Slump	1-3 (5-8)	in. (Range)
Percent Fly Ash (Class F)	15-20	% Range
Cementitious Content	N/A	lb/cy (Min.)
Percent Coarse Agg.	N/A	%
Yield	0.99-1.02	cy (Range)

The above weights are based upon aggregates in a saturated surface dry condition. Batch plant corrections must be made for moisture in aggregates.

COMPRESSIVE STRENGTH RESULTS (From Laboratory Trial)

Cylinder Break Time	#1	#2	#3	#4	#5	#6	#7	#8	#9	Average Strength (psi)
1-Day	1990	2090								2040
7-Day			3790	3780						3790
28-Day					5370	5320	5450			5380
56-Day								5640	5670	5660

Compressive strength results rounded to nearest 10 psi per ASTM C 39

MATERIAL SUPPLIERS AND SOURCES

Material	Company	Source
Fine Aggregate	RMMA	Clevenger Pit
Coarse Aggregate	RMMA	Clevenger Pit
Cement (Type I/II)	GCC	Pueblo
Fly Ash (Class F)	Boral	Denver
Mid Range Water Reducer	BASF	POZZOLITH 997
Air Entrainment Agent	BASF	MB AE 90