

January 01, 200X

KCMMB Administrator
George Butler Associates, Inc.
One Renner Ridge
9801 Renner Blvd.
Lenexa, Kansas 66219

Subject: Kansas City Metro Materials Board
Submittal of Concrete Mix Designs for 200X

Dear KCMMB Administrator,

Please consider the following concrete mix designs and supporting information for approval for the Kansas City Metro Materials Board. Also please find a check for \$XX.00 (\$50/per mix design) made payable to XXXXX.

Please consider the following mixes:

<u>MIX DESIGNATION</u>	<u>COMPRESSIVE STRENGTH</u>	<u>SLUMP</u>
XXXXXXXXXX	4000 psi	2" +/- 1"

Thank you.

Sincerely,

Mr. John Doe

KCMMB Year	3/1/2008	to	2/28/2009
Date	3/1/2008		
Supplier Name	Concrete Producer		
Mix Designation*	KCMMB	4K	
Design Strength	4000	psi	

Contact Information:	
Name	John Doe
Phone	913-555-5555
E-mail	KCMMB@gbutler.com
Fax	913-555-5555

Certification						10/1/2007	to	2/28/2009
Material	Supplier or Certifier	Type/Gradation	ASTM	Date	Quantity			
Cement	Cement Producer	I/II	C150	12/19/2007	450	lbs		75.00%
Slag	Cement Producer	100	C989	12/1/2007	150	lbs		25.00%
Coarse Aggregate	Coarse Agg. Prod.	57/67	C33	10/12/2007	1650	lbs		55.00%
Fine Aggregate	Fine Agg Prod.	C33	C33	11/19/2007	1350	lbs		45.00%
Water	City				230	lbs		27.58 gal

Admixtures	KDOT Approved Type		
Air Entrainer			1.5 oz/cwt
Water Reducer	Type A		30 oz/cwt
Retarder	Type D		12 oz/cwt
			oz/cwt
			oz/cwt
			oz/cwt
			oz/cwt
Slump		3 +/-	1 in
Design Air			6.5 %
Unit Weight (@ design air content)			141.85 pcf
Water/cementitious Ratio			0.383

Strength Test Results**			
Date	Cylinder Strength	Avg.	Strengths Meet Specification
4/25/2007	5390	5325	
4/25/2007	5260		
6/30/2007	5425	5307.5	
6/30/2007	5190		
8/19/2007	5320	5295	
8/19/2007	5270		
Average Strength if 3 tests per ACI 318	5309	Required Strength per Spec.	5200

OR

Number of Cylinders	Std. Deviation	ACI Modifier	Required Strength

*If the mix designation provided does not include 4K, 5K, or HE the mix designation will have the appropriate suffix attached as shown.

**Provide Laboratory strength tests worksheets in PDF.

T=	151.71	(Unit Weight @ 0% Air)			
Design	Minimum Allowable Unit Weights				
6.5%	5.0%	6.0%	6.5%	7.0%	8.0%
141.85	142.69	141.18	140.43	139.68	138.18

Notes:
Cells in light green are lists and options must be selected from the pull down menu
Cells in red require a date to be entered which falls within a certain time period.

CONCRETE COMPRESSIVE STRENGTH TEST

COMPANY

Report Number: XXXXXX

Address

Service Date: December 1, 200X

Phone

Client: Company
Attn: John Doe
Address

Report Date: December 15, 200X
Project:

Project Number: XXXXXX

Material Information

Specified Strength: 4000 psi @ 28 Days

Batch Time: 7:30 Plant: XX
Supplier: COMPANY
Truck No: XX Ticket No: XXXXX
Mix I.D. No.: KCMMB XX

Sample Information

Sample Time: 8:00 Date Cast: December 1, 200X
Technician: XXXX
Weather Conditions:
Accumulative Yards: XX
Placement Method:
Sample Locations:
Placement Location:

Field Test Data

<u>Test</u>	<u>Result</u>	<u>Specification</u>
Slump, inches:	X.XX	X.X +/- 1.0
Air Content, %:	X.X	X.X +/- 1.5
Concrete Temperature, °F:	XX	
Ambient Temperature, °F:	XX	
Plastic Unit Weight, pcf:		

Laboratory Test Data

Set No.	Specimen ID	Diameter (inches)	Area (sq. inches)	Date Received	Specimen Weight (lbs)	Date Tested	Age at Test (days)	Maximum Load (lbs)	Compressive Strength (psi)	Fracture Type
XX	1	6.0	28.27	12/02/0X	28.40	12/07/0X	28	XXX,XXX	X,XXX	X
XX	2	6.0	28.27	12/02/0X	28.40	12/07/0X	28	XXX,XXX	X,XXX	X
XX	3	6.0	28.27	12/02/0X	28.40	12/07/0X	28	XXX,XXX	X,XXX	X
XX	4	6.0	28.27	12/02/0X	28.40	12/07/0X	28	XXX,XXX	X,XXX	X
XX	5	6.0	28.27	12/02/0X	28.40	12/07/0X	28	XXX,XXX	X,XXX	X
XX	6	6.0	28.27	12/02/0X	28.40	12/07/0X	28	XXX,XXX	X,XXX	X

Reviewed by: _____

REQUIRED CERTIFICATIONS

1. Certification, from the cement supplier, that Portland Cement materials meet the current requirements of ASTM C-150.
2. Certification, from the cement supplier, that Blended Hydraulic Cement materials meet the current requirements of ASTM C-595.
3. Certification, from the ready mix supplier, that slag materials meet the current requirements of ASTM C-989.
4. Certification, from the ready mix supplier, that fly ash materials meet the current requirements of ASTM C-618.
5. Certification that the coarse aggregate meets the current ASTM C-33 5S requirements (including the magnesium sulfate test for soundness).
6. Certification that the fine aggregate meets the current ASTM C-33 requirements.
7. Certification that all admixtures are approved by the Kansas Department of Transportation.

AGGREGATE SUPPLY COMPANY NAME
ADDRESS

January 1, 200X

To Whom It May Concern:

This is to certify that concrete coarse aggregate produced by Company Name meets the requirements of ASTM C33 for Class 5S aggregate.

Attached are copies of recent pertinent test results as well as gradation history for the ASTM 56/67 aggregate Company Name produces.

Sincerely,

John Doe

COMPANY NAME

ADDRESS

January 1, 200X

Job No. XXXX

**SUBJECT: AGGREGATE LABORATORY ANALYSES
FROM COMPANY NAME
LOCATION**

To Whom It May Concern:

Please find attached the laboratory testing performed for the above referenced project. Samples were obtained on December XX, 200X by John Doe for the Company Name and type rock from Plant X.

The aggregate test as requested were performed by our laboratory as follows:

TEST PERFORMED	PLANT NO. X (TYPE)
Sieve Analysis	ASTM C136
Material finer than #200 Sieve	ASTM C117
Clay lumps & Friable particles	ASTM C142
Los Angeles Abrasion	ASTM C131
Magnesium Sulfate Soundness	ASTM C88
Specific Gravity	ASTM C127

If there are any questions regarding the information submitted, please contact us.

Sincerely,

John Doe