

E. D. Appolonia Consulting Engineers, Inc.

APPENDIX G

CONCRETE MIX DESIGN

CONCRETE MIX DESIGN FORM

District Indiana

Date January 8, 1971

Contractor M. F. Fetterolf Coal Company, Boswell, Pennsylvania

Route _____ Section _____ County _____

Concrete Producer A. F. MOREAU & SONS, INC., Indiana, Pennsylvania

Pennsylvania Department of Mines and Mineral Industries
Project SL 107-4
Ernest Mine Complex

MATERIALS

Material	Type	Producer - Location - Source	S. G.	Abs.	Na ₂ SO ₄	L. A.
Cement	I	Medusa Portland - Wampum, Pa.				
Fine Aggregate	A	Glacial Sand, Kittaning	2.58	1.41		
Coarse Aggregate	A	Latrobe Stone, Latrobe	2.67	0.52		A
Water		Clymer Water, Indiana, Pa.				B
Admixture - AEA						

CLASS 3000 psi CONCRETE MIX SUMMARY (Cubic Yard Basis)

Cement, <u>5.5</u> Bags	=	<u>517</u> lbs.	
Fine Aggregate, S.S.D. (F.M. = <u>2.71</u> : 0.20)	=	<u>1364</u> lbs.	
Coarse Aggregate, S.S.D. (Size <u>2B</u>)	=	<u>1710</u> lbs.	
Coarse Aggregate, S.S.D. (Size _____)	=	_____ lbs.	
Water, <u>6.6</u> Gallons per Bag, <u>36.3</u> Gallons	=	<u>302</u> lbs.	
Admixture:			
Air Entraining as required			
Retarding as required			
Total	=	<u>3893</u> lbs.	= <u>144</u> lbs./cu. ft.
		<u>27.00</u> cu. ft.	

Slump Range: 3-4 "

Entrained Air: 6.5 ± 1.5%

Design Strength: 28 days 3000 average psi _____ days _____ average psi

Designed by Ludwig Wineman Title Plant Technician Date 1-8-71

Reviewed by Contractor _____ Title _____ Date _____

Project Engineer _____ Date _____

Asst. Construction Engineer _____ Date _____

Materials Engineer _____ Date _____

Approved by District Engineer _____ Date _____