

JUN-29-2003 11:25

INDEPENDENT TESTING LABORATORIES, INC.

Locations in New York And New Jersey

129-11 18th Avenue - College Point, N.Y. 11356

The City Of New York Department Of Buildings

Concrete Testing Laboratory License No.24

CONCRETE MIX DESIGN110-704-0330
Fax: 718-762-1334

REPORT NO. LRMD-2415

JOB NO.

DATE APRIL 26, 2002

SHEET 1 of 2

CLIENT: QUADROZZI CONCRETE CORPORATION
73-20 AMSTEL BOULEVARD/ARVERNE, NEW YORK 11692

OBJECT LOCATION: NEW YORK CITY DEPARTMENT OF TRANSPORTATION
VARIOUS LOCATION/FIVE BOROUGH

GENERAL CONTRACTOR: UNKNOWN

CONCRETE CONTRACTOR: UNKNOWN

CONCRETE PRODUCER: QUADROZZI CONCRETE CORPORATION
73-20 AMSTEL BOULEVARD/ARVERNE NEW YORK 11692

FINAL MIX DESIGN (DRY BATCH WEIGHTS)

CLASS B-32 P.S.I. 3200 TYPE AE PLACEMENT CONVENTIONAL

BATCH WEIGHTS-LB/CY		SOURCE AND TYPE					
CEMENT	564	NEW YORK CEMENT COMPANY	TYPE I/II	ASTM C-150	B.S.A. CAL # 131-37-SM		
FINE AGGREGATE	1255	ROANOKE SAND & GRAVEL		ASTM C-33	S.G. = 2.62		
COARSE AGGREGATE	1900	TILCON/DOLOMITE	#67	ASTM C-33	S.G. = 2.82		
WATER (GALS.)	30.1	POTABLE		ASTM C-94			
ADMIXTURE OZ. #1	5.6	MASTERBUILDERS/MBAE 90		ASTM C-260			
ADMIXTURE OZ. #2	NONE						
WATER/CEMENT RATIO	(0.44) 5.02	SLUMP IN.	2-4	AIR %	5-7	COLORIMETRIC TEST PLATE NO.	ONE (1)

AGGREGATE GRADATION - Cumulative Percent Finer

SIEVES	#100	#50	#30	#16	#8	#4	3/8"	1/2"	3/4"	1"	1 1/2"	2"	2 1/2"	FM
F. AGG.	5.1	22.4	43.5	69.2	92.4	97.3	100							2.67
C. AGG.					2.7	6.4	39.2		94.2	100				6.58

TRIAL MIX DESIGN PROPORTIONS

BATCH	BAGS	CEMENT	F.AGG	C.AGG	WATER	ADMIX#1	ADMIX#2	SLUMP IN."	WT. P.C.F.	W/C RATIO	AIR%
1.	5.00	470	1340	1900	29.8	4.7	NONE	4.00	146.6	5.96	5.3
2.	6.00	564	1255	1900	30.1	5.6	NONE	3.50	147.0	5.02	6.0
3.	6.50	611	1120	1900	31.9	6.1	NONE	3.50	146.6	4.91	6.0
4.	7.00	658	1120	1900	32.9	6.6	NONE	3.00	146.4	4.70	6.2

FINE AGGREGATE WEIGHTS 104.3 OVEN DRY S.S.D. MATERIALS 0.5 PERCENT ABSORPTION
COARSE AGGREGATE WEIGHTS 103.4 OVEN DRY S.S.D. MATERIALS 0.5 PERCENT ABSORPTION

COMPRESSIVE STRENGTH TEST - P.S.I. (6" x 12" CYLINDERS)

7 DAY RESULTS		AVERAGE		28 DAY RESULTS		AVERAGE	
1.	2387	2317	2352	3236	3272	3201	3307
2.	3095	3201	3148	4244	4386	4350	4226
3.	3484	3554	3519	4757	4598	4615	4810
4.	3979	3873	3926	5394	6529	5482	5412

DISTRIBUTION: 3-QUADROZZI CONCRETE CORPORATION

CCM
CONTRACTING CO., INC.
59-10 57 STREET
MASPETH, N.Y. 11378
(718) 356-9334



INDEPENDENT TESTING LABORATORIES, INC.
(THIS MIX DESIGN IS NOT VALID WITHOUT OUR IMPRESSED CORPORATE SEAL)

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FORM 808-35AM 08-27-03

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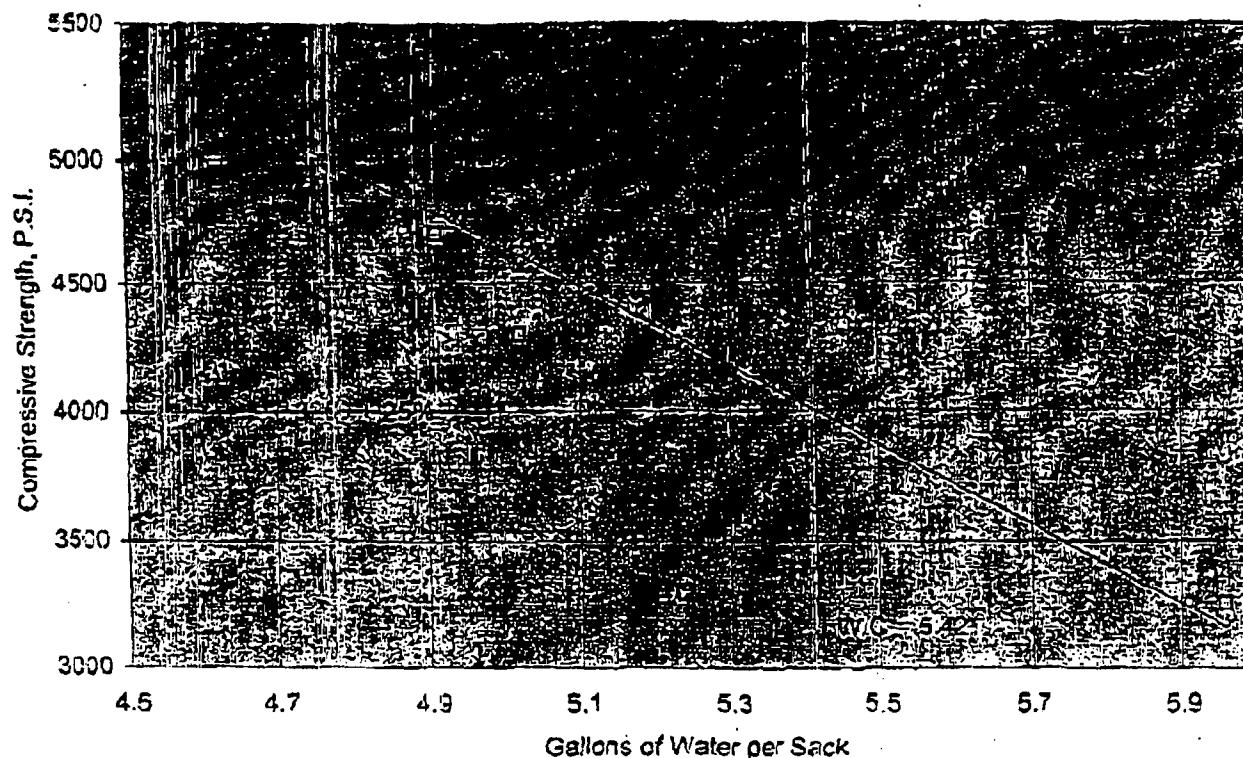
CONCRETE MIX DESIGN

718-961-8530

Fax: 718-762-1334

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DATE APRIL 26, 2002SHEET 2 of 2**Water/Cement Ratio Curve****Notes:**

1. All quantities are shown for the production of one c.y. of concrete. If in the actual production the quantities as shown do not yield exactly one c.y. of concrete required adjustment shall be made in the quantities of aggregates. The content of cement per one c.y. of concrete shall maintained unchanged as shown.
2. The weights of aggregates are shown for oven dry conditions as per ASTM C-29-71, Section 3.1. Increase weights when moist aggregates are used to compensate for weigh added by surface moisture.
3. The quantity of water shown is based on aggregates in an oven dry condition. Decrease the amount of water shown for all moisture, surface and absorbed, that is actually contained by the aggregates.
4. Adjusted for variations in Fineness Modulus of fine aggregate as per ASTM C-33, Section 4.5 and in accordance with the recommended Practice for Selecting Proportions for Normal Weight Concrete ACI 316-83. When the difference of Fineness Modulus of the Fine Aggregate is more than 0.2 for each
 - a) Below the Design Fineness Modulus
Deduct fifty pounds (forty pounds light weight) from the dry batch weight of the Fine Aggregate.
Add fifty pounds (twenty pounds light weight) from the dry batch weight of the Coarse Aggregate.
 - b) Above the Design Fineness Modulus
Deduct fifty pounds (forty pounds light weight) from the dry batch weight of the Fine Aggregate.
Add fifty pounds (twenty pounds light weight) from the dry batch weight of the Coarse Aggregate.
5. Measuring materials shall comply with ASTM C94-74, section 7.
6. Entrained and entrapped air percentages are as recommended in ACI 316R-3.7-83.
7. Re-Use Design Mixes are in accordance with New York City B.S.A. call#750-80 BCR.

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