



TR3: Technical Report
Concrete Design Mix
Must be typewritten.

DEPT BLDGS Job No. 321278960
Scan Code ESHS8296419

The TR3 is required prior to permit

1 Location Information Required for all applications.							
House No(s) 79		Street Name Malcolm X Boulevard (For work 4/18/16 and onwards only)					
Borough Brooklyn		Block 1617		Lot 2		BIN 3043854 CB No. 303	

2 Applicant Information - Licensed Concrete Testing Lab Required for all applications.							
Director Last Name BANERJEE		Director First Name DEBABRATA		Director Middle Initial			
Business Name IMPACT CONCRETE & CONTROL INSPECTION INC				Business Telephone (718) 939-7774			
Business Address 15-46 129TH STREET				Business Fax (718) 939-6444			
City COLLEGE POIN		State NEW YORK		Zip 11356		Mobile Telephone (917) 577-7540	
E-Mail DBANER@GMAIL.COM							
Director's Lic. Number 081431				☒ P.E. ☐ R.A.		Concrete Testing Lab Lic. Number 64	

3 Strength Requirements and Design Required for all applications. Attach Trial Mixture Report and/or Field Experience Results.							
				Mix #1	Mix #2	Mix #3	
Method of Determining Proportions (Trial Mixture and/or Field Experience)				☒ Trial Mix ☐ Field Experience	☐ Trial Mix ☐ Field Experience	☐ Trial Mix ☐ Field Experience	
Date Trial Mixture Performed				10-30-14			
Specified Strength (f' c)				4000			
Required Strength (f' cr)				5200			
Specified Test Age (Days)				28			

	Material Type	Material Source	ASTM Standard				
Cementitious #1 (lbs)	Cement	Lehigh Type I/II	C-150	360	lbs.	lbs.	lbs.
Cementitious #2 (lbs)	Slag	Lehigh Alcem	C-989	240	lbs.	lbs.	lbs.
Cementitious #3 (lbs)					lbs.	lbs.	lbs.
Fine Aggregate (lbs)	Sand	LI Natural	C-33	1350	lbs.	lbs.	lbs.
Coarse Aggregate #1 (lbs)	Stone	Tilcon	C-33	1700	lbs.	lbs.	lbs.
Coarse Aggregate #2 (lbs)					lbs.	lbs.	lbs.
Coarse Aggregate #3 (lbs)					lbs.	lbs.	lbs.
Amount of Water (gals)	Water	NYC	C-94	32.0	gals.	gals.	gals.
Admixture #1 (oz)	Air	Sika Air	C-260	1.4	oz	oz	oz
Admixture #2 (oz)	HRWR	Sika Viscocrete 2100	C-494	30.0	oz	oz	oz
Admixture #3 (oz)					oz	oz	oz
Other	SUPPLIER MAY ADJUST	ADMIXTURE AS PER	NYC OOB				
Water-Cement Ratio	BULLETIN 2010-018			0.444			
Slump/Spread (inches ± tolerance)				8 ± 1	±	±	±
Air Content (% ± tolerance)				6.0 % ± 1.5	% ±	% ±	% ±
Unit Weight (lbs./ft³)				142.8 lbs./ft³	lbs./ft³	lbs./ft³	lbs./ft³

4 Concrete Testing Lab Director's Statement and Signature Required for all applications.

I hereby state that the above information is correct and complete to the best of my knowledge and that the above tests were performed in accordance with all Administrative Code Provisions and Departmental Rules, Regulations and Directives

Falsification of any statement is a misdemeanor and is punishable by a fine or imprisonment, or both

It is unlawful to give to a city employee, or for a city employee to accept, any benefit, monetary or otherwise, either as a gratuity for properly performing the job or in exchange for special consideration. Violation is punishable by imprisonment or fine or both.

Name (please print)

DEBABRATA

Signature

Date

04-18-16

P.E. / R.A. Seal (apply seal, then sign and date over seal)

5 Concrete Producer's Statement and Signature Required for all applications. Must be filled out by Owner of Production Facility.

I certify that the material type and source in section 3 above are available at my facility and that I will use such materials to produce the concrete mix(es) specified in section 3. I further certify that I will produce and deliver such mix(es) to the project site in accordance with the applicable code provisions of the NYC construction codes and that such mix(es) are appropriate for the placement conditions for the project identified in section 1 above (BC 1905.8.2).

Name (print)

Gerard Bergano

Title

Member

Signature

Gerard Bergano

Date

NRMCA Certification Expiration Date (BC 1085.8.2)

Business Name

Stillwell Ready Mix

Business Telephone (718) 373-3384

Business Address

2543 Stillwell Ave

Business Fax:

City Brooklyn

State NY

Zip 11423

6 Design Applicant's Statement and Signature Required for all applications. Must be filled out by P.E./R.A. responsible for plans.

I certify I have reviewed the concrete design mix(es) reported by the licensed testing lab and found them to be in compliance with the approved construction documents (BC 1905.8).

Name (please print)

Signature

Date

P.E. / R.A. Seal (apply seal, then sign and date over seal)

7 Building Owner's Statement and Signature Required for all applications.

Falsification of any statement is a misdemeanor and is punishable by a fine or imprisonment, or both. It is unlawful to give to a city employee, or for a city employee to accept, any benefit, monetary or otherwise, either as a gratuity for properly performing the job or in exchange for special consideration. Violation is punishable by a fine or imprisonment, or both. I understand that if I am found after hearing to have knowingly or negligently falsified or allowed to be falsified any certificate, form, signed statement, application, report or certification of the correction of violation required under the provisions of this code or of a rule of any agency, I may be barred from filing further applications or documents with the Department.

Name (print)

Mardcha Levi

Title

Owner

Signature

Mardcha Levi

Date

5/10/16

IMPACT

CONCRETE & CONTROL INSPECTIONS, INC.

15-46 129TH STREET, COLLEGE POINT, NEW YORK 11356

TEL: (718) 939-7774 FAX: (718) 939-6444

CONCRETE MIX DESIGN REPORT

CLIENT:	Regional	DATE:	10/30/14
		LAB NO.:	2014-10-30-14
		MIX TYPE:	3/4 Pump
Project:	Impact Reference Mix for Impact's Client for Project	METHOD:	Trial
	79 Malcolm X Boulevard, Brooklyn (For work 4/18/16 and onwards)	SAMPLED BY:	Stillwell
Supplier:	Stillwell Ready Mix	Expire on:	10/30/2016

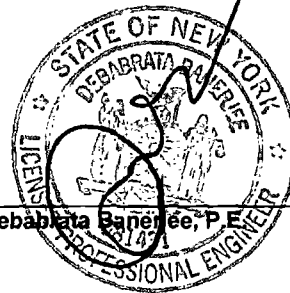
4000 psi + 1200 A.E. Concrete Pump @ 28 Days

Product	Source & Type	ASTM	S.G.	NYS Source No.
Cement	Lehigh-II	ASTM C150	3.15	-
Slag	Lehigh Allcem	ASTM C989	2.88	-
Fly Ash	-	ASTM C618	2.20	-
Silica Fume	-	ASTM C1240	2.20	-
Fine Agg.	L I Natural	ASTM C33	2.63	-
Coarse Agg.	NYSand and Stone (#67)	ASTM C330	2.77	-
Water	NYC Potable	ASTM C94	1.00	-
Admixture 1	Sika- Sika AIR	ASTM C260	1.03	-
Admixture 2	Sika-Viscocrete 2100	ASTM C494	1.20	-
Admixture 3	-	-	-	-

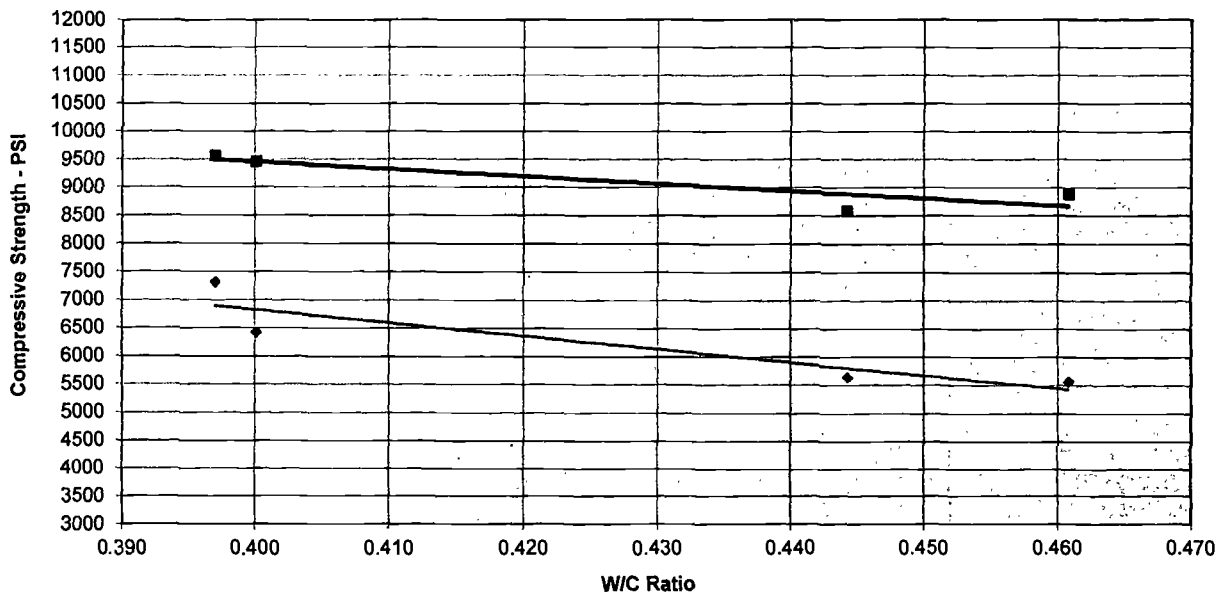
Recommended Mix Design

#2

Cement (lbs.)	360	Sacks	6.38
Slag (lbs.)	240		
Fly Ash (lbs.)	0		
Microsilica (lbs.)	0		
Fine Agg. (lbs.)	1350		
Coarse Agg. (lbs.)	1700		
Water (gals.)	32.0		
Admixture 1 (oz.)	1.4		
Admixture 2 (oz.)	30.0		
Admixture 3 (oz.)			
Slump (in.)	8"±1"		
Air Content (%)	6 % ±1.5%		
U. Wt. P.C.F.	142.8		
W/C Ratio	0.444		



Compressive Strength vs. Water Cement Ratio



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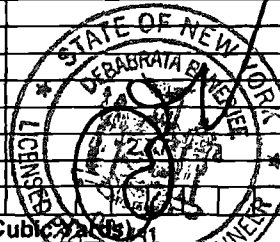
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Aggregate Gradation Passing Percent Finer

Sieve Size	F.A.	C.A. (#67)
2"		
1 1/2"		
1"		100.0
3/4"		94.00
1/2"		41.00
3/8"	100.0	22.60
# 4	99.7	2.3
# 8	93.1	1.6
# 16	79.6	
# 30	53.4	
# 50	17.4	
# 100	4.0	
FM		
Unit Weight Dry Rodded		
Specific Gravity	2.63	
Colometric Test	Plate # 1	



TRIAL MIXES - DRY BATCH WEIGHTS (lbs./Cubic Yard)

Point	Yield	Cement	Slag	FlyAsh	Silica	F.A.	C.A.	Water	Adx 1	Adx 2	Adx 3	Adx 4	Adx 5	Adx 6	Adx 7	Adx 8	Adx 9	Adx 10	Adx 11	Adx 12	Adx 13	Adx 14	Adx 15	Adx 16	Adx 17	Adx 18	Adx 19	Adx 20	Adx 21	Adx 22	Adx 23	Adx 24	Adx 25	Adx 26	Adx 27	Adx 28	Adx 29	Adx 30	Adx 31	Adx 32	Adx 33	Adx 34	Adx 35	Adx 36	Adx 37	Adx 38	Adx 39	Adx 40	Adx 41	Adx 42	Adx 43	Adx 44	Adx 45	Adx 46	Adx 47	Adx 48	Adx 49	Adx 50	Adx 51	Adx 52	Adx 53	Adx 54	Adx 55	Adx 56	Adx 57	Adx 58	Adx 59	Adx 60	Adx 61	Adx 62	Adx 63	Adx 64	Adx 65	Adx 66	Adx 67	Adx 68	Adx 69	Adx 70	Adx 71	Adx 72	Adx 73	Adx 74	Adx 75	Adx 76	Adx 77	Adx 78	Adx 79	Adx 80	Adx 81	Adx 82	Adx 83	Adx 84	Adx 85	Adx 86	Adx 87	Adx 88	Adx 89	Adx 90	Adx 91	Adx 92	Adx 93	Adx 94	Adx 95	Adx 96	Adx 97	Adx 98	Adx 99	Adx 100	Adx 101	Adx 102	Adx 103	Adx 104	Adx 105	Adx 106	Adx 107	Adx 108	Adx 109	Adx 110	Adx 111	Adx 112	Adx 113	Adx 114	Adx 115	Adx 116	Adx 117	Adx 118	Adx 119	Adx 120	Adx 121	Adx 122	Adx 123	Adx 124	Adx 125	Adx 126	Adx 127	Adx 128	Adx 129	Adx 130	Adx 131	Adx 132	Adx 133	Adx 134	Adx 135	Adx 136	Adx 137	Adx 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888	Adx 889	Adx 890	Adx 891	Adx 892	Adx 893	Adx 894	Adx 895	Adx 896	Adx 897	Adx 898	Adx 899	Adx 900	Adx 901	Adx 902	Adx 903	Adx 904	Adx 905	Adx 906	Adx 907	Adx 908	Adx 909	Adx 910	Adx 911	Adx 912	Adx 913	Adx 914	Adx 915	Adx 916	Adx 917	Adx 918	Adx 919	Adx 920	Adx 921	Adx 922	Adx 923	Adx 924	Adx 925	Adx 926	Adx 927	Adx 928	Adx 929	Adx 930	Adx 931	Adx 932	Adx 933	Adx 934	Adx 935	Adx 936	Adx 937	Adx 938	Adx 939	Adx 940	Adx 941	Adx 942	Adx 943	Adx 944	Adx 945	Adx 946	Adx 947	Adx 948	Adx 949	Adx 950	Adx 951	Adx 952	Adx 953	Adx 954	Adx 955	Adx 956	Adx 957	Adx 958	Adx 959	Adx 960	Adx 961	Adx 962	Adx 963	Adx 964	Adx 965	Adx 966	Adx 967	Adx 968	Adx 969	Adx 970	Adx 971	Adx 972	Adx 973	Adx 974	Adx 975	Adx 976	Adx 977	Adx 978	Adx 979	Adx 980	Adx 981	Adx 982	Adx 983	Adx 984	Adx 985	Adx 986	Adx 987	Adx 988	Adx 989	Adx 990	Adx 991	Adx 992	Adx 993	Adx 994	Adx 995	Adx 996	Adx 997	Adx 998	Adx 999	Adx 1000	Adx 1001	Adx 1002	Adx 1003	Adx 1004	Adx 1005	Adx 1006	Adx 1007	Adx 1008	Adx 1009	Adx 1010	Adx 1011	Adx 1012	Adx 1013	Adx 1014	Adx 1015	Adx 1016	Adx 1017	Adx 1018	Adx 1019	Adx 1020	Adx 1021	Adx 1022	Adx 1023	Adx 1024	Adx 1025	Adx 1026	Adx 1027	Adx 1028	Adx 1029	Adx 1030	Adx 1031	Adx 1032	Adx 1033	Adx 1034	Adx 1035	Adx 1036	Adx 1037	Adx 1038	Adx 1039	Adx 1040	Adx 1041	Adx 1042	Adx 1043	Adx 1044	Adx 1045	Adx 1046	Adx 1047	Adx 1048	Adx 1049	Adx 1050	Adx 1051	Adx 1052	Adx 1053	Adx 1054	Adx 1055	Adx 1056	Adx 1057	Adx 1058	Adx 1059	Adx 1060	Adx 1061	Adx 1062	Adx 1063	Adx 1064	Adx 1065	Adx 1066	Adx 1067	Adx 1068	Adx 1069	Adx 1070	Adx 1071	Adx 1072	Adx 1073	Adx 1074	Adx 1075	Adx 1076	Adx 1077	Adx 1078	Adx 1079	Adx 1080	Adx 1081	Adx 1082	Adx 1083	Adx 1084	Adx 1085	Adx 1086	Adx 1087	Adx 1088	Adx 1089	Adx 1090	Adx 1091	Adx 1092	Adx 1093	Adx 1094	Adx 1095	Adx 1096	Adx 1097	Adx 1098	Adx 1099	Adx 1100	Adx 1101	Adx 1102	Adx 1103	Adx 1104	Adx 1105	Adx 1106	Adx 1107	Adx 1108	Adx 1109	Adx 1110	Adx 1111	Adx 1112	Adx 1113	Adx 1114	Adx 1115	Adx 1116	Adx 1117	Adx 1118	Adx 1119
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COMPRESSIVE STRENGTH RESULTS (ASTM C39) - P.S.I. (4" x8" Cylinders) — 7 & 28 Days Breaks

Point	w/c ratio	7 Days Results	Average	28 Days Results	Average
1	0.461	5512	5632	5572	8734
2	0.444	5832	5454	5643	8769
3	0.400	6349	6494	6422	9154
4	0.397	7210	7426	7318	9442
					9727
					9224
					9617
					9925
					9564
					9360
					9824
					9417
					9259
					9196
					9218
					9726
					10025
					10625
					10125
					10122
					9958
					9699
					9926

Same proportions used as 2013 due to no compli

Tag Used 78928-78959