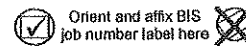




**TR3: Technical Report
Concrete Design Mix**
Must be typewritten.



The TR3 is required prior to permit

1 Location Information *Required for all applications.*

House No(s) 69-24 Street Name Bayfield Avenue
Borough Queens Block 16043 Lot 21 BIN 4302888 CB No.

2 Applicant Information - Licensed Concrete Testing Lab *Required for all applications.*

Director Last Name Dietrich Director First Name Kurt Director Middle Initial H
Business Name All Island Testing Associates, Inc. Business Telephone (631) 273-5717
Business Address 75B Pine Aire Drive Business Fax (631) 273-2457
City Bayshore State NY Zip 11706 Mobile Telephone
E-Mail allislandtesting@aol.com
Director's Lic. Number 070677 ☒ P.E. ☐ R.A. Concrete Testing Lab Lic. Number 84

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	5/4/17		
Specified Strength (f' c)	4000		
Required Strength (f' cr)	-		
Specified Test Age (Days)	3		

	Material Type	Material Source	ASTM Standard			
Cementitious #1 (lbs)	Type III	Hercules	C-150	752 lbs.	lbs.	lbs.
Cementitious #2 (lbs)				lbs.	lbs.	lbs.
Cementitious #3 (lbs)				lbs.	lbs.	lbs.
Fine Aggregate (lbs)	Sand	110 Sand and Gravel	C-33	1146 lbs.	lbs.	lbs.
Coarse Aggregate #1 (lbs)	#57 Stone	Azzil	C-33	1800 lbs.	lbs.	lbs.
Coarse Aggregate #2 (lbs)				lbs.	lbs.	lbs.
Coarse Aggregate #3 (lbs)				lbs.	lbs.	lbs.
Amount of Water (gals)	City	City	C-94	34.0 gals.	gals.	gals.
Admixture #1 (oz)	Sika Air	Sika	C-260	5.6 oz	oz	oz
Admixture #2 (oz)	Viscocrete 2100	Sika	C-494	48.9 oz	oz	oz
Admixture #3 (oz)	Sikatard 440	Sika	C-494	15.0 oz	oz	oz
Other						
Water-Cement Ratio				.377		
Slump/Spread (inches ± tolerance)				7 ± 1	±	±
Air Content (% ± tolerance)				5.5 %± 1.5	%±	%±
Unit Weight (lbs./ft³)				147.8 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)

KURT H. DIETRICH

Signature

Date

11-30-17

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) A. Rocco Rossini

Title Vice President

Signature

Date

11/30/17

NRMCA Certification Expiration Date (BC 1095.8.2)

Business Name Seville Central Mix

Business Telephone 516-868-3000

Business Address 157 Albany Avenue

Business Fax: 516-868-1290

City Freeport

State NY

Zip 11520

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 1905.6).

Name (please print)

MEAME CRAGG

Signature

Date

12/6/17

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 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)

Title

Signature

Date

ALL ISLAND TESTING ASSOCIATES, INC.

NYC DOB Lab #84

75B Pine Aire Drive, Bay Shore, NY 11706

Phone (631) 273-5717, Fax (631) 273-2457

CS112217

November 22, 2017

CLIENT: **CitiStructure LLC.**
44 Hudson Place, 2nd Floor
Hoboken, NJ 07030

PROJECT: **69-24 Bayfield Avenue, Queens**

REQUIRED *f'cr*: 4000 PSI @ 3 Days

TYPE: Conventional, A/E, MRWR, Hydration Control,

CONCRETE SUPPLIER: Seville Central Mix

The following materials were submitted by the concrete supplier as typical of those proposed to be for this project.

CEMENT: Hercules Type III, ASTM C-150
SAND: 110 Sand And Gravel, ASTM C-33
STONE: Azzil, ASTM C-33
ADMIXTURE: Sika Air (C-260)Sikatard 440 &
Viscocrete 2100(C-494) – Sika

GRADATION TEST

<u>SAND</u>		<u>#57 STONE</u>	
<u>SIEVE SIZE</u>	<u>PERCENT PASSING</u>	<u>SIEVE SIZE</u>	<u>PERCENT PASSING</u>
3/8	100.0		
4	98.1	1"	100.0
8	80.9	1/2	51.9
16	71.3	#4	8.5
30	42.7	#8	2.7
50	11.6	#16	.4
100	2.4		
F.M..... 2.68			
S.G..... 2.64		S.G.- 2.85	
U.W.D.R..... 101.2			
Colormetric Test..... Plate No. 1			

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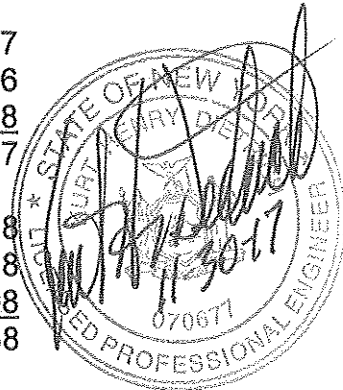
CS112217

DRIED WEIGHTS PER CUBIC YARD CONVENTIONAL

MIX NO.	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
TRIAL MIX DATE:	5/4/17	5/4/17	5/4/17	5/4/17
TYPE III CEMENT (lbs)	660	685	720	752
SAND (lbs)	1219	1202	1177	1146
STONE (lbs)	1800	1800	1800	1800
SIKA AIR (oz)	5.0	5.2	5.4	5.6
% AIR	5.9	5.7	5.5	5.5
GALS OF WATER	33.4	33.6	33.8	34.0
VISCOCRETE 2100(oz)	42.9	44.5	46.8	48.9
SIKATARD 440(oz)*	13.2	13.7	14.4	15.0
SLUMP (")	7.75	7.5	7.5	7.5
W/C RATIO	.42	.409	.39	.377
UNIT WEIGHT (#/ft ³)	147.0	147.3	147.8	147.8
YIELD	26.93	26.93	26.93	26.93

COMPRESSIVE STRENGTHS (4" x 8" Cylinders)

3 DAY	3018	3487	3875	4218
P.S.I.	3186	3386	3786	4398
	<u>3175</u>	<u>3428</u>	<u>3894</u>	<u>4457</u>
AVERAGE	3126	3434	3852	4358
7 DAY	4238	4648	5178	5497
P.S.I.	4149	4658	5048	5586
	<u>4082</u>	<u>4572</u>	<u>5089</u>	<u>5678</u>
AVERAGE	4156	4626	5105	5587
28 DAY	5648	6218	6648	7018
P.S.I.	5797	6173	6542	7158
	<u>5648</u>	<u>6018</u>	<u>6586</u>	<u>7298</u>
AVERAGE	5698	6136	6592	7158



Based on the above, we suggest Mix No. 4 for 4000 P.S.I. in 3 days at a maximum slump of 7 ± 1 ".

REMARKS: Chemical Admixtures might be adjusted as needed depending on Site and weather conditions following manufacturer's recommendations and upon approval of the Engineer of Record.

*-This is an initial dosage rate of Sikatard 440. Dosage may change due to jobsite location and ambient temperatures.

Respectfully Submitted,
ALL ISLAND TESTING

Daniel Quick
Daniel Quick

NOTE: These Trial Batches are Specific Only to the Listed Project & Concrete Supplier and are NOT VALID without a signature in ink. Any alterations