



TR5: Technical Report
Pile Driving
Must be typewritten.

DEPT BLDGS Job No. 121324290
Scan Code ESHS4604916

Sheet number 1 of 5 sheets

1 Location Information Required for all applications.

House No(s) 501 Street Name West 30th Street

Borough Manhattan Block 702 Lot 50 BIN 1012456 CB No. 104

2 Applicant Information Required for all applications.

Last Name Gallagher First Name Marc Middle Initial J

Business Name Langan Eng., Env., Suveying and L.A., D.P.C. Business Telephone (212) 479-5400

Business Address 21 Penn Plaza Business Fax (212) 479-5444

City New York State NY Zip 10001 Mobile Telephone

E-Mail mgallagher@langan.com License Number 081664

☒ P.E. ☐ R.A.

3 Pile Driving Contractor Required for all applications.

Last Name Cahill First Name James Middle Initial J

Business Name Case Foundation Company Business Telephone (610) 353-0600

Business Address 850 Cassatt Road, Suite 370 Business Fax (610) 644-1495

City Berwyn State PA Zip 19312 Mobile Telephone

4 Pile Information Required for all applications.

Type Drilled Caisson

Material Grade 50 Steel/12 ksi Concrete

Load Capacity varies (see below) tons

5 Hammer Information Required for all applications.

Make N/A

Model Number N/A

Energy N/A

6 Statements and Signatures 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.

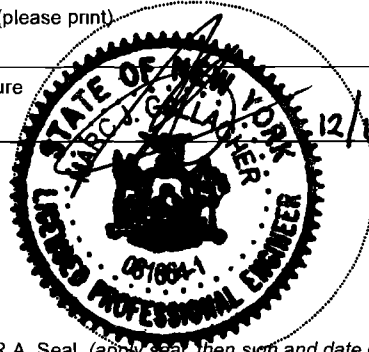
Falsification of any statement is a misdemeanor and is punishable by a fine or imprisonment, or both.

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)

Signature

Date



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

Approvals - Internal Use Only

Examined and Recommended for Approval

Approved

Examiner Name

Borough Commissioner Signature

Date

Signature

Date

7 Test Report												
Column Number	Pile Number	Diameters: Drilled Caissons			Elevations: BPMD		Pile Length from Tip to Cutoff	Assumed Elevation Good Bearing Material	Average Net Penetration for Last Five Blows	Calculated Bearing Capacity (Tons)	Deviated from Designed Location (N or S, E or W)	Variation from Plumb
		Tip	Cutoff	2/3 up from Tip	Tip	Cutoff						
	C-1	60	64	64	-40.20	-6.58	33.62	-21.00	N/A	5150	0.22N, 0.05E	<2%
	C-2	60	64	64	-44.90	-6.58	38.32	-25.70	N/A	5350	0.10N, OK	<2%
	C-3	60	64	64	-58.40	-6.58	51.82	-38.70	N/A	5150	0.31S, 0.16E	<2%
	C-4	60	64	64	-45.90	-6.25	39.65	-26.00	N/A	4650	0.16S, OK	<2%
	C-5	60	64	64	-40.10	-6.25	33.85	-23.90	N/A	4650	OK, 0.31E	<2%
	C-6	60	64	64	-34.30	-6.25	28.05	-18.00	N/A	4650	0.12N, 0.03W	<2%
	C-7	60	64	64	-45.60	-10.58	35.02	-28.15	N/A	4650	0.40S, 0.38E	<2%
	C-8	60	64	64	-50.38	-10.28	40.10	-31.28	N/A	5150	0.03S, 0.46E	<2%
	C-9	60	64	64	-64.84	-10.33	54.51	-35.92	N/A	7450	0.11S, 0.15E	<2%
	C-10	60	64	64	-60.67	-10.33	50.34	-30.91	N/A	7450	0.22N, 0.24E	<2%
	C-11	60	64	64	-61.00	-10.33	50.67	-31.91	N/A	7450	0.05S, 0.19W	<2%
	C-12	60	64	64	-62.82	-16.50	46.32	-35.82	N/A	7050	0.01S, 0.03E	<2%
	C-13	60	64	64	-63.28	-16.50	46.78	-36.12	N/A	7050	0.16N, 0.55W	<2%
	C-14	60	64	64	-62.04	-16.50	45.54	-34.71	N/A	7050	0.17S, 0.05W	<2%
	C-15	60	64	64	-59.24	-16.50	42.74	-35.07	N/A	6200	0.09N, 0.08E	<2%
	C-16	60	64	64	-60.32	-16.50	43.82	-37.19	N/A	6200	0.19S, 0.13E	<2%
	C-17	60	64	64	-57.26	-16.50	40.76	-32.14	N/A	6200	0.09N, 0.31E	<2%
	C-18	60	64	64	-56.78	-16.50	40.28	-30.58	N/A	6450	0.14N, OK	<2%

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Remarks

1. Diameters is in inches
2. Pile length and elevations in feet
3. Deviation is in feet
4. Variation from plumb is in percent

7

Column Number	Pile Number	Diameters: Drilled Caissons			Elevations: BPMD		Pile Length from Tip to Cutoff	Assumed Elevation Good Bearing Material	Average Net Penetration for Last Five Blows	Calculated Bearing Capacity (Tons)	Deviated from Designed Location (N or S, E or W)	Variation from Plumb
		Tip	Cutoff	2/3 up from Tip	Tip	Cutoff						
	C-37	60	64	64	-54.16	-14.58	39.58	-31.60	N/A	6250	0.51S, 0.29E	<2%
	C-38	60	64	64	-57.15	-14.58	42.57	-32.49	N/A	6250	0.17S, 0.44E	<2%
	C-39	60	64	64	-57.23	-14.58	42.65	-38.12	N/A	5350	0.16S, 0.03E	<2%
	C-40	60	64	64	-49.88	-14.58	35.30	-30.74	N/A	5350	0.67S, 0.13E	<2%
	C-41	60	64	64	-43.58	-6.25	37.33	-26.58	N/A	4650	0.05S, OK	<2%
	C-42	60	64	64	-41.99	-15.67	26.32	-25.59	N/A	4950	0.89N, 0.19W	<2%
	C-43	60	64	64	-47.38	-15.67	31.71	-28.78	N/A	4950	0.15N, 0.17E	<2%
	C-44	60	64	64	-56.60	-14.50	42.10	-36.20	N/A	5150	0.04N, 0.60E	<2%
	C-45	60	64	64	-57.35	-14.50	42.85	-35.15	N/A	5150	0.25S, 0.14W	<2%
	C-46	60	64	64	-53.07	-12.67	40.40	-35.57	N/A	4650	0.05N, 0.10W	<2%
	C-47	60	64	64	-51.63	-12.67	38.96	-35.13	N/A	4650	0.22N, 0.04W	<2%
	C-48	60	64	64	-49.81	-12.67	37.14	-33.51	N/A	4650	0.15N, 0.05W	<2%
	C-49	60	64	64	-49.90	-12.67	37.23	-32.50	N/A	4650	0.13N, 0.32W	<2%
	C-50	60	64	64	-52.23	-12.67	39.56	-33.23	N/A	4650	0.16N, 0.35W	<2%
	C-51	60	64	64	-55.07	-12.67	42.40	-37.28	N/A	4650	0.50N, 0.36W	<2%
	C-52	60	64	64	-52.33	-6.25	46.08	-35.43	N/A	4950	0.42S, 0.16E	<2%
	C-53	60	64	64	-42.56	-8.25	34.31	-26.56	N/A	4650	0.01S, 0.13W	<2%
	C-54	60	64	64	-61.94	-0.42	61.52	-37.74	N/A	6150	0.02N, 0.04E	<2%

8

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