

**VILLAGE OF PORT CHESTER
BOARD OF TRUSTEES
Meeting, Monday, April 13, 2015
Regular Meeting: 7:00 P.M.
VILLAGE JUSTICE COURTROOM
350 North Main Street
Port Chester, New York
AGENDA**

TIME: 7:00 P.M.

I	AFFIDAVIT OF PUBLICATION AND NOTICE OF PUBLICATION RE:	ACTION
1	Public Hearing on Fiscal Year 2015-2016 Budget <u>Village Manager's Tentative Budget Presentation</u>	
2	Public Hearing to consider the application of Ability Beyond Disability to establish a community residence for six adults with developmental disabilities to be licensed by the New York Office for People with Developmental Disabilities.	
II	PUBLIC COMMENTS	ACTION
III	DISCUSSIONS	ACTION
	Bulkhead RFP	
IV	RESOLUTIONS	ACTION
	Finance	
5	Awarding BID 2015-04 - Sanitary Sewer And Storm Drain Cleaning And Television Inspection (Bid No. 15-04).	
V	CORRESPONDENCE	ACTION
1	From the Traffic Commission regarding overnight parking for 1 Landmark Square during painting in the parking garage.	
VI	PUBLIC COMMENTS AND BOARD COMMENTS	ACTION

TIME: _____

AFFIDAVIT OF PUBLICATION
AND
NOTICE OF PUBLICATION RE

PUBLIC HEARING – #1
Tentative Budget 2015-2016

CLICK ON THE LINK BELOW
2015-2016 Tentative Budget

(This will take a minute or two...)



**VILLAGE OF PORT CHESTER
TENTATIVE BUDGETS
PRESENTATION
FISCAL YEAR
JUNE 1, 2015 TO MAY 31, 2016**

APRIL 13, 2015



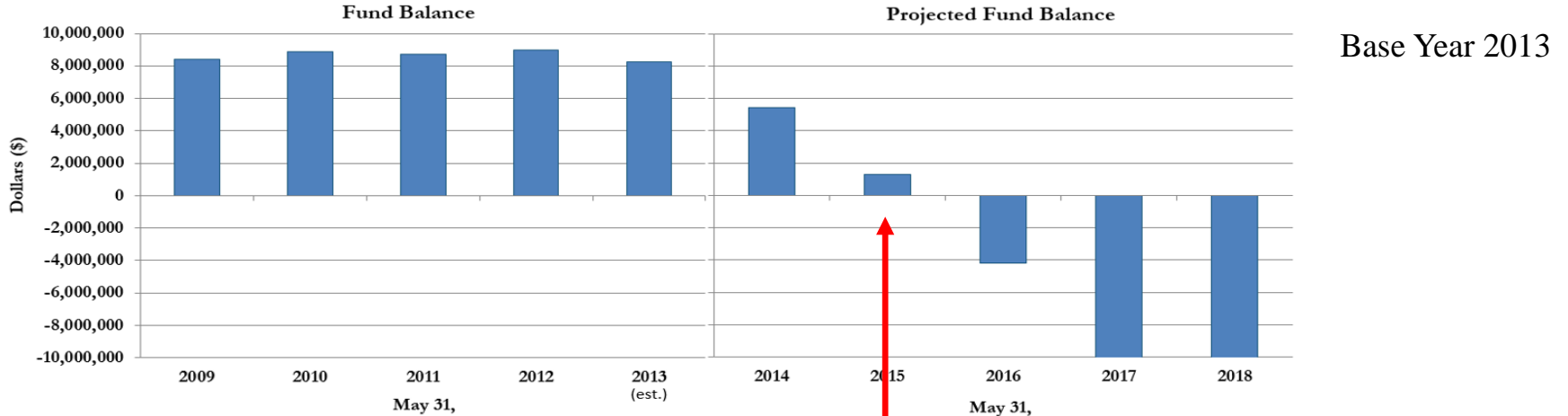
BUDGET AT A GLANCE

Total Assessed Value:	\$2,377,321,251
Assessed Value % Increase	.79%
Total Appropriations:	\$ 38,596,409
FY 14' – 15' Adopted	\$ 37,684,166
% Change over FY 14'-15' adopted budget	2.42%
\$ Change in Appropriations	\$ 912,243
Estimated Revenues:	
Real Property Tax Levy (proposed)	\$22,913,160
Other Revenues	\$15,240,970
Appropriated Fund Balance	\$ 315,494
Appropriated Debt Service Reserves	\$ 50,000
Sidewalk Assessment Levy	\$ 26,785
Percentage Tax Levy Increase:	1.61%
Impact on Average Single Family Household:	12.74%

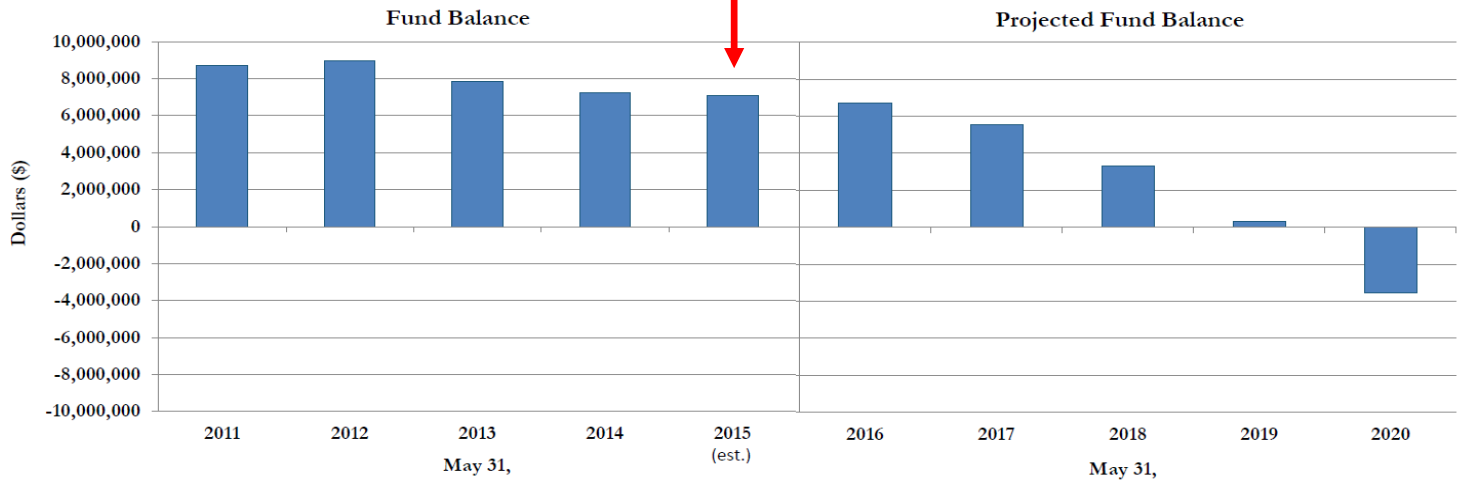
(Note: the average assessed value for a single family home increased from \$384,583 in FY 14'-15' to \$434,397 in FY 15'-16'. There was actually about a .016% decrease in the Homestead tax levy, but an overall increase in the final tax bill resulted due the increase in the value of our homes.)



5 YEAR OPERATING TRENDS



Two Year Trends
& Projections





GENERAL FUND BUDGET AT A GLANCE

Appropriations	\$38,596,409
Real Property Tax Levy	\$22,913,160
Other Revenues	\$15,240,970
Appropriated Fund Balance	\$315,494
Appropriated W.C. Reserves	\$50,000
Appropriated Debt Service Reserves	\$50,000
Sidewalk Assessment Levy	\$26,785
Total Assessed Value	\$2,377,321,251
Assessed Value % Decrease	.79%
Percentage Tax Levy Increase	1.61%



WHAT IS THE PROPERTY TAX CAP?

- On June 24, 2011 the property tax cap was signed into law (see Chapter 97 of the NYS Laws of 2011). This new law takes effect in local years beginning January 1, 2012 and extends through June 15, 2016.
- The tax cap law establishes a limit on the annual growth of property taxes levied by local governments and school districts to two percent (2%) or the rate of inflation, whichever is less.

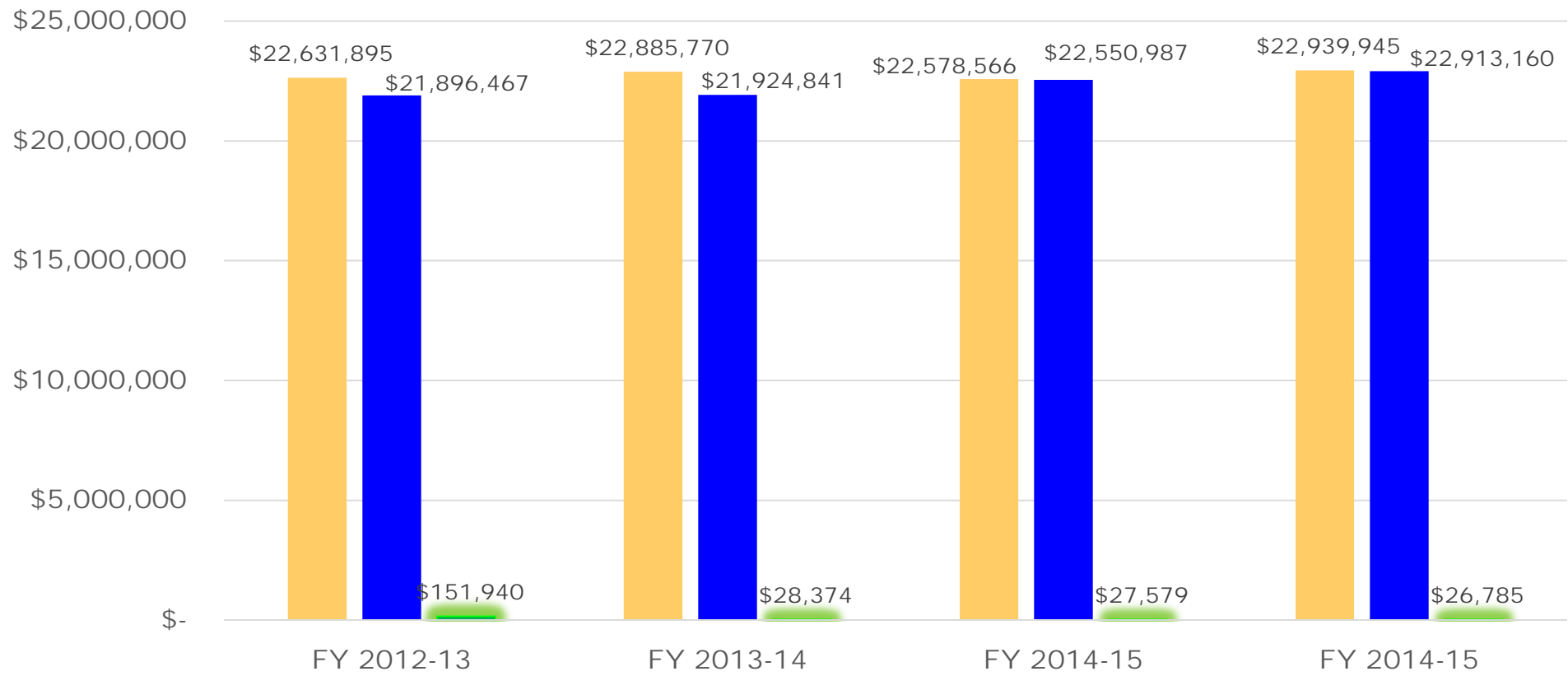


FY 2015-16 TAX CAP CALCULATION

Tax Levied in FYE 05/31/2015	\$22,550,987
Plus Sidewalk Assessment in FYE 5/31/2015	<u>27,579</u>
Total Property Tax Levied	\$22,578,566
Times VOPC Tax base growth factor (1.0000)	\$22,578,566
Plus PILOTS Budgeted Receivables FYE 5/31/2015	<u>812,781</u>
Total Property Tax Levied plus pilots-FY 25/31/2015	\$23,391,347
Minus Tort Actions that exceeds 5% of Tax Levy	-0-
Times Allowable Levy Growth Factor (1.0168)	\$23,784,322
Minus PILOT Receivable in FYE 5/31/2016	<u>\$(844,377)</u>
2015 Tax Levy Limit (before exclusions)	\$22,939,945
Plus Available Carryover from FYE 5/31/2015	\$0
Plus Pension Costs Exclusions	<u>\$0</u>
TOTAL PROP TAX LIMITATION FYE 5/31/2016	\$22,939,945
Proposed Tax Levy for FYE 5/13/2016 (plus SWB \$26,785)	<u>\$22,939,945</u>
(Difference Between Property Tax Limit & Proposed Levy for FY 2015-16)	\$0



REAL PROPERTY TAX CAP COMPARISON TO TAX LEVY





FY 2015-16 TAX RATE CALCULATION

	<u>Assessed Value</u>	<u>Percentage</u>	<u>Tax Levy</u>
Homestead	\$1,485,274,253	55.740822%	\$12,771,983.73
Non-Homestead	<u>892,046,998</u>	<u>44.259178%</u>	<u>10,141,176.27</u>
Total	<u>\$2,377,321,251</u>	<u>100.000000%</u>	<u>\$22,913,160.00</u>

Homestead Tax Rate: \$8.599074 (% Increase = -0.19%)

Non-Homestead Tax Rate: \$11.368433 (% Increase = 1.72%)



TRADITIONAL SINGLE FAMILY TAX COMPARISON

FY 2014-15

FY 2015-16

Average Assessed Value

\$384,583

\$434,397

Homestead Tax Rate

\$8.615274

\$8.599074

(per \$1,000)

Average Village Tax

\$3,313

\$3,735

Average Tax Bill Increase

\$422

Average Percentage Increase

12.74%



OTHER REVENUE HIGHLIGHTS

➤ Other Revenues FY 2015-16	\$15,240,970
➤ Other Revenues FY 2014-15	<u>\$14,685,818</u>
➤ Increase in Other Revenues	\$555,152
➤ Percentage Increase	3.78%

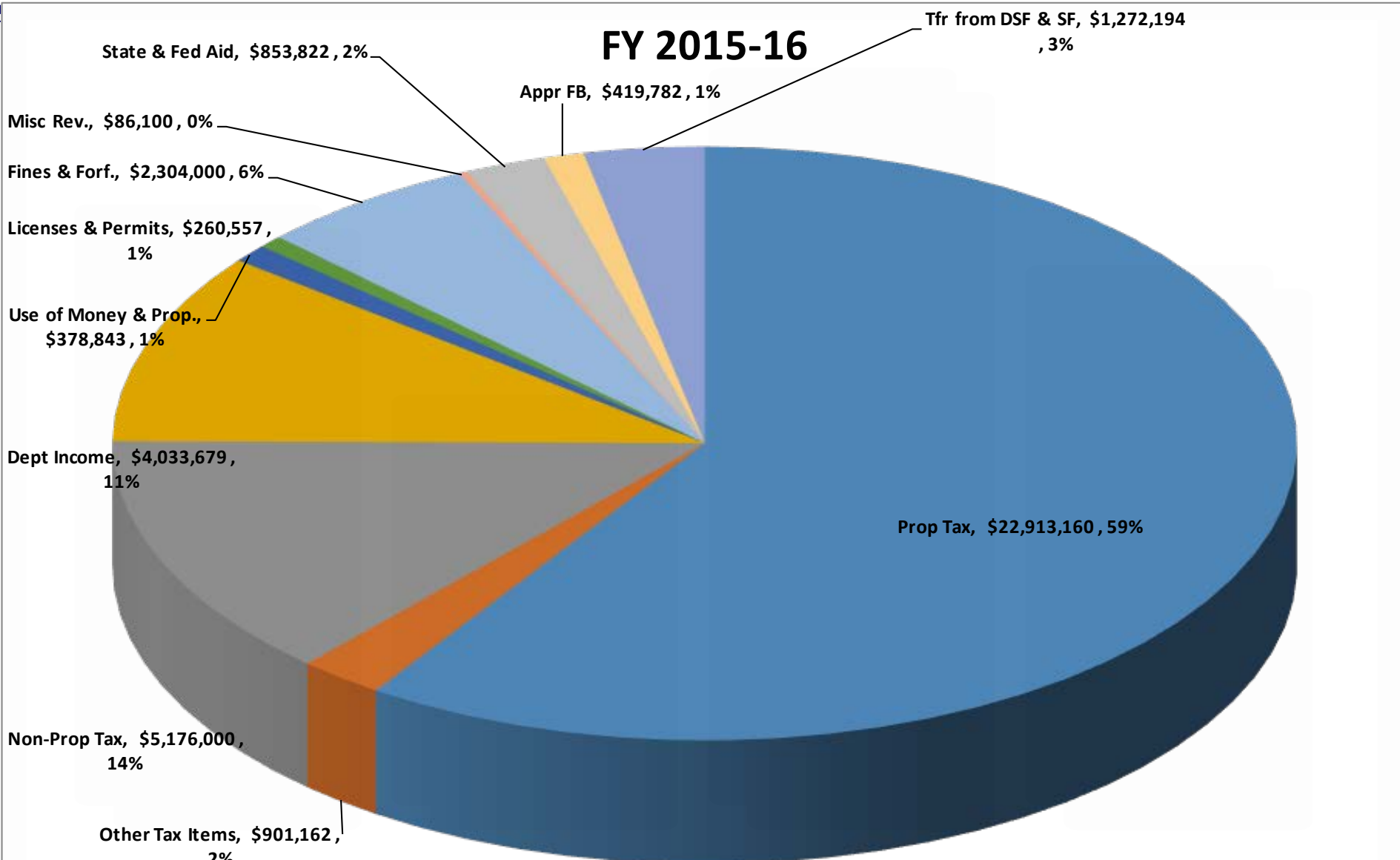


GENERAL FUND BUDGETED REVENUES COMPARISON BY FUNCTION

	Adopted	Adopted	Adopted	Adopted	Adopted	Tentative	Amount	%
	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	I/(D)	I/(D)
Real Property Tax Items	23,187,552	21,958,225	21,896,468	21,896,467	22,550,987	22,913,160	362,173	1.61%
Other Tax Items	607,481	740,262	738,001	818,194	857,697	901,162	43,465	5.07%
Non-Property Tax Items	3,450,000	4,199,000	4,379,001	4,772,000	4,946,000	5,176,000	230,000	4.65%
Departmental Income	3,025,943	2,958,821	3,130,393	3,726,736	4,064,369	4,033,679	(30,690)	-.76%
Use of Money & Property	350,000	411,700	221,167	404,966	407,309	378,843	(28,466)	-6.99%
Licenses & Permits	143,380	154,630	185,430	224,522	234,167	260,557	26,390	11.27%
Fines & Forfeitures	1,804,000	2,019,000	2,204,001	2,014,000	2,254,500	2,304,000	49,500	2.20%
Miscellaneous Revenues	56,500	76,000	81,000	136,000	66,000	86,100	20,100	30.45%
State Aid	628,194	616,569	604,936	695,129	743,617	724,311	(19,306)	-2.60%
Federal Aid	109,439	107,360	124,282	124,082	139,738	129,511	(10,227)	-7.32%



GENERAL FUND REVENUES BY FUNCTION - \$38,596,409





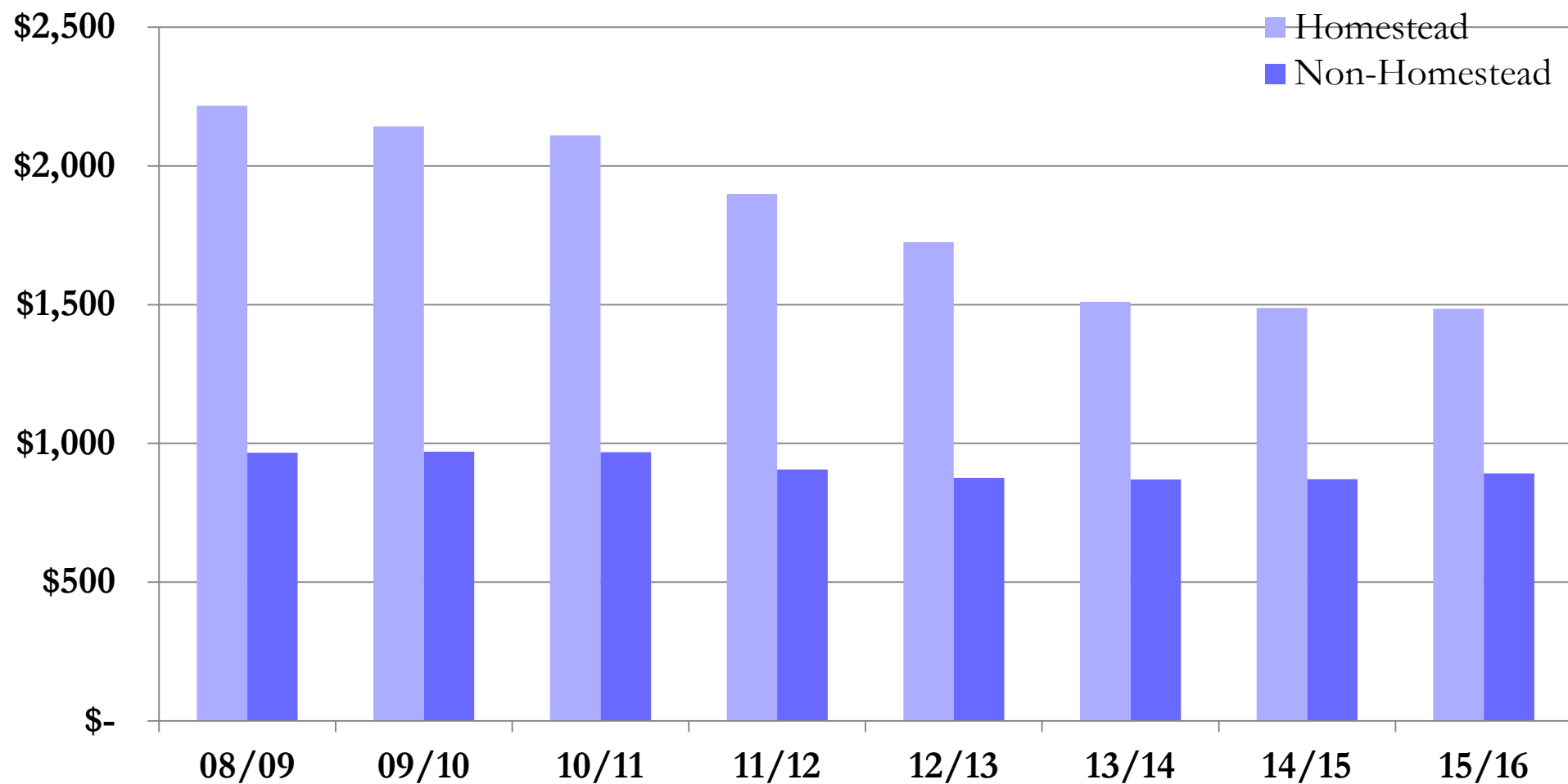
ASSESSED VALUATION HISTORY & TREND

	09-10	10-11	11-12	12-13	13-14	14-15	15-16
HOMESTEAD	\$2,141,735,833	\$2,109,949,846	\$1,899,018,347	\$1,724,588,576	\$1,509,768,381	\$1,487,811,791	\$1,485,274,253
NON-HOMESTEAD	969,731,732	968,295,228	906,172,448	876,347,721	869,820,705	870,855,155	892,046,998
TOTAL	\$3,111,467,565	\$3,078,245,074	\$2,805,190,795	\$2,600,936,297	\$2,379,589,086	\$2,358,666,946	\$2,377,321,251
Increase/ (Decrease)	(\$71,022,093)	(\$33,222,491)	(\$273,054,279)	(\$204,254,498)	(\$221,347,211)	(\$20,922,140)	\$18,654,305
% Increase/ (Decrease)	(2.23%)	(1.07%)	(8.87%)	(7.28%)	(8.51%)	(.88%)	.79%



ASSESSED VALUATION HISTORY & TREND GRAPH

Since 2008/09 Total Assess Values Decreased by Approx. \$805,168,407 or 25.3%



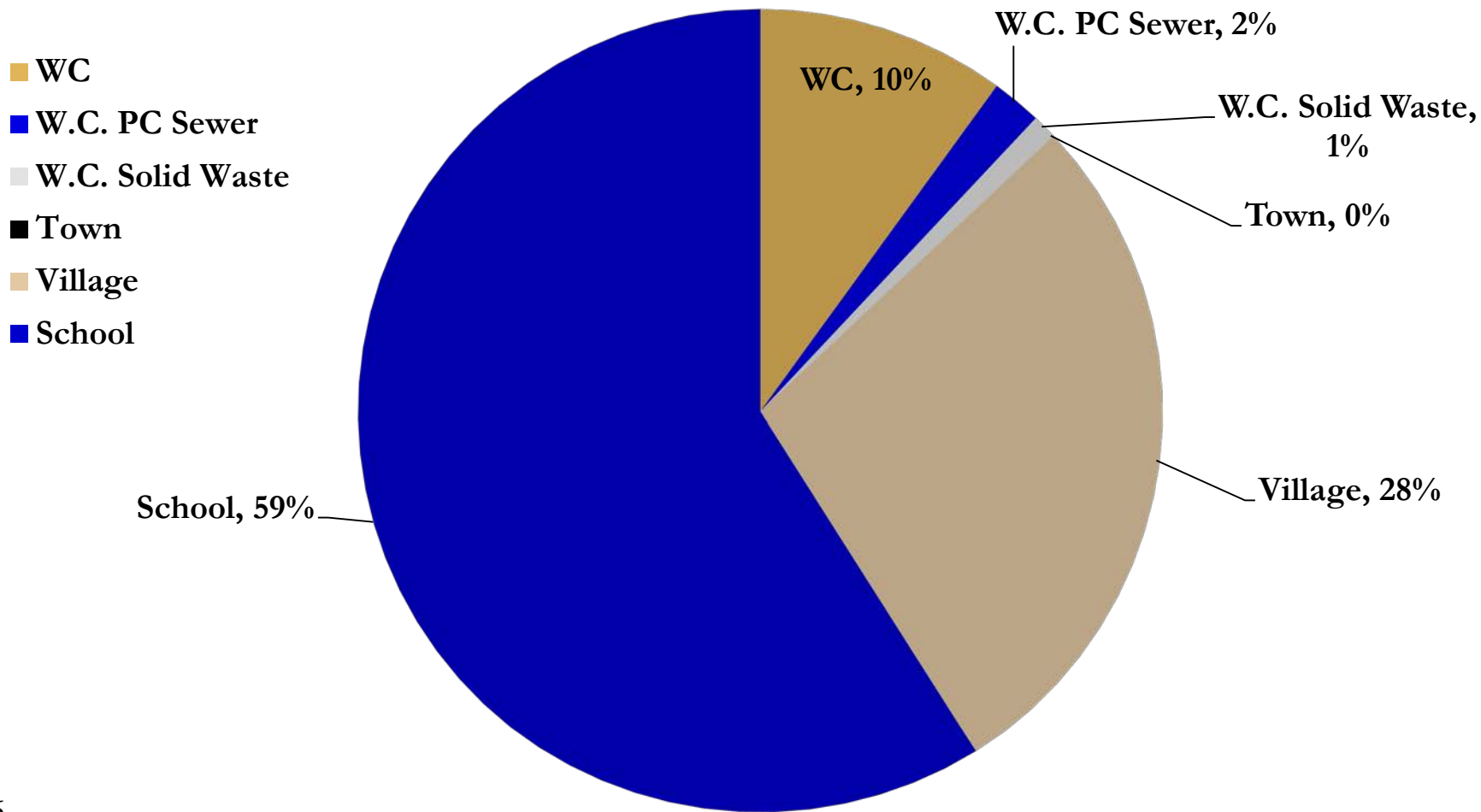


TAX LEVY % CHANGE OR INCREASE (10 Year History)

<u>Budget Years</u>	<u>Tax Levied</u>	<u>Tax Levy +, (-)</u>
FY 2005-2006	\$18,442,189	21.90%
FY 2006-2007	\$20,640,129	11.92%
FY 2007-2008	\$21,772,390	5.49%
FY 2008-2009	\$22,547,730	3.56%
FY 2009-2010	\$22,870,783	1.43%
FY 2010-2011	\$23,187,552	1.39%
FY 2011-2012	\$21,958,225	(5.30%)
FY 2012-2013	\$21,896,467	(.28%)
FY 2013-2014	\$21,896,467	0.00%
FY 2014-2015	\$22,550,987	2.99%
FY 2015-2016	\$22,913,160 (Proposed)	1.61%

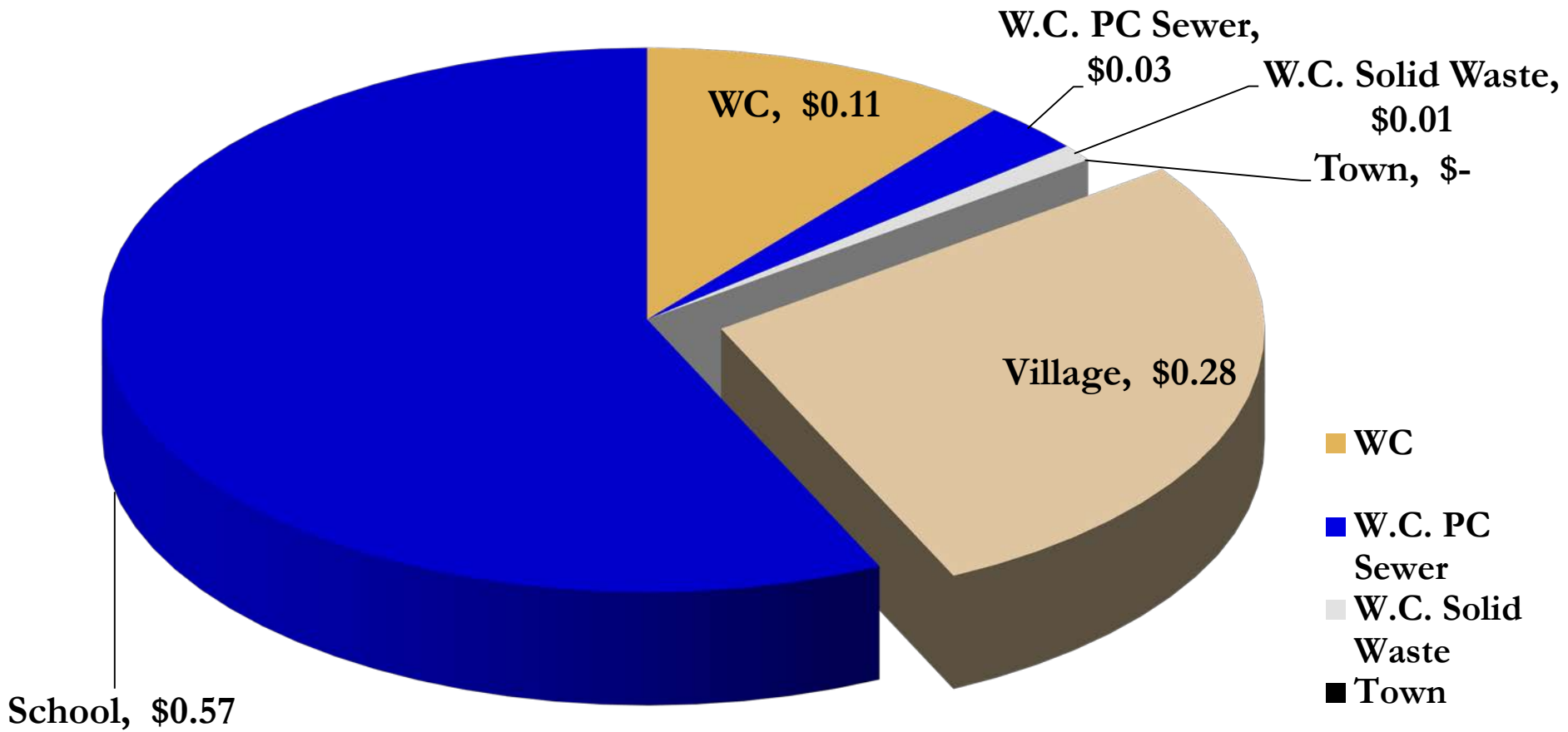


HOW YOUR TAX DOLLAR IS SPENT (Homestead & Non-Homestead)



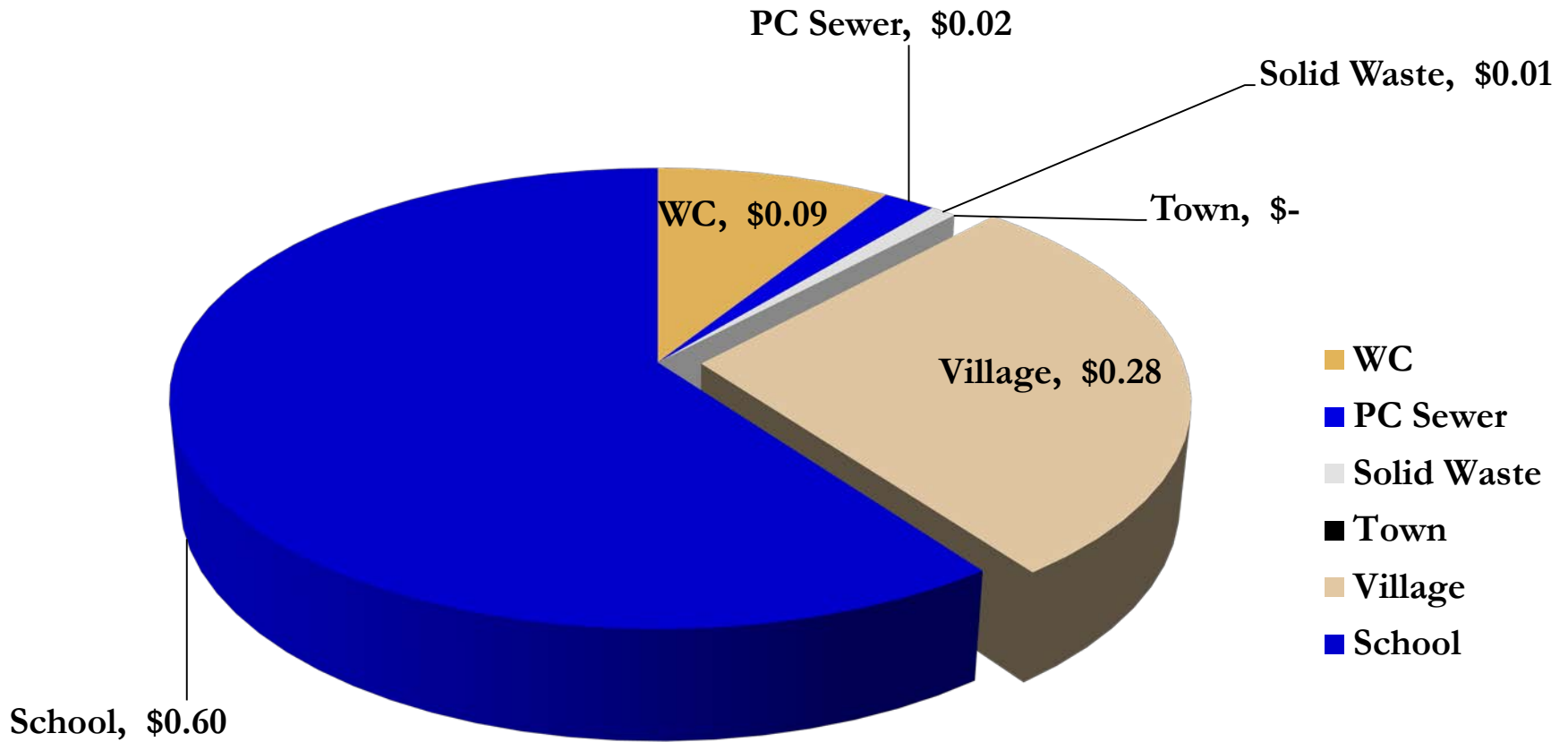


HOMESTEAD TAX \$1.00 (Residential)



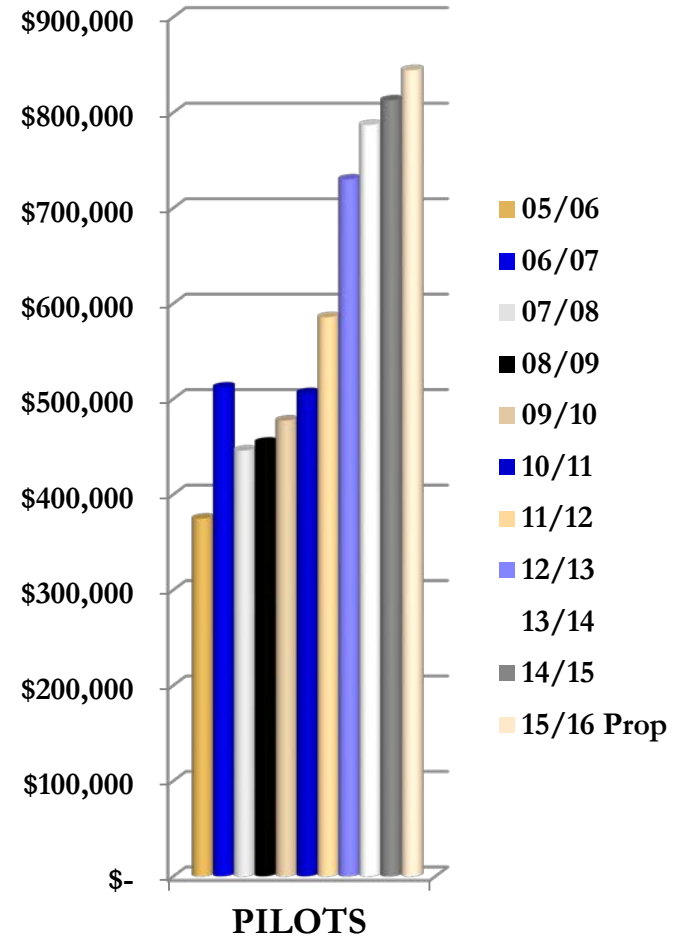
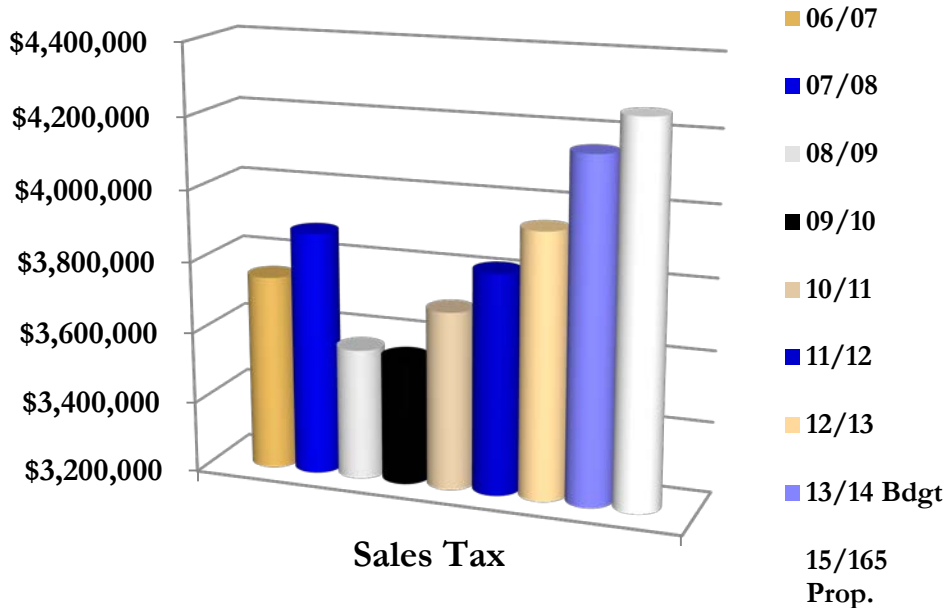
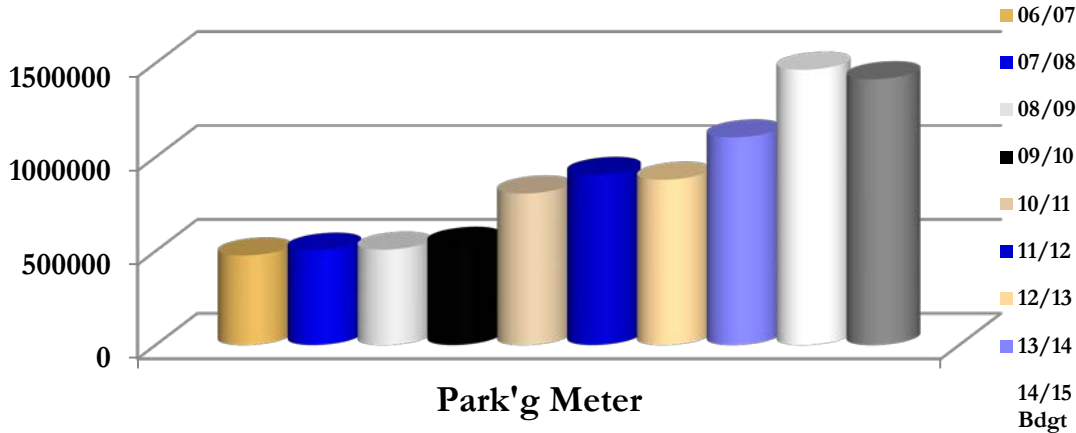


NON-HOMESTEAD TAX \$1.00 (Commercial)





GENERAL FUND OTHER MAJOR REVENUES





GENERAL FUND APPROPRIATION INCREASE

FY 2015-16 (Proposed)	\$38,596,409
FY 2014-15 (Adopted)	\$37,684,166
Appropriation Increase	\$912,243
Percentage Increase	2.42%



GENERAL FUND APPROPRIATIONS BY FUNCTION

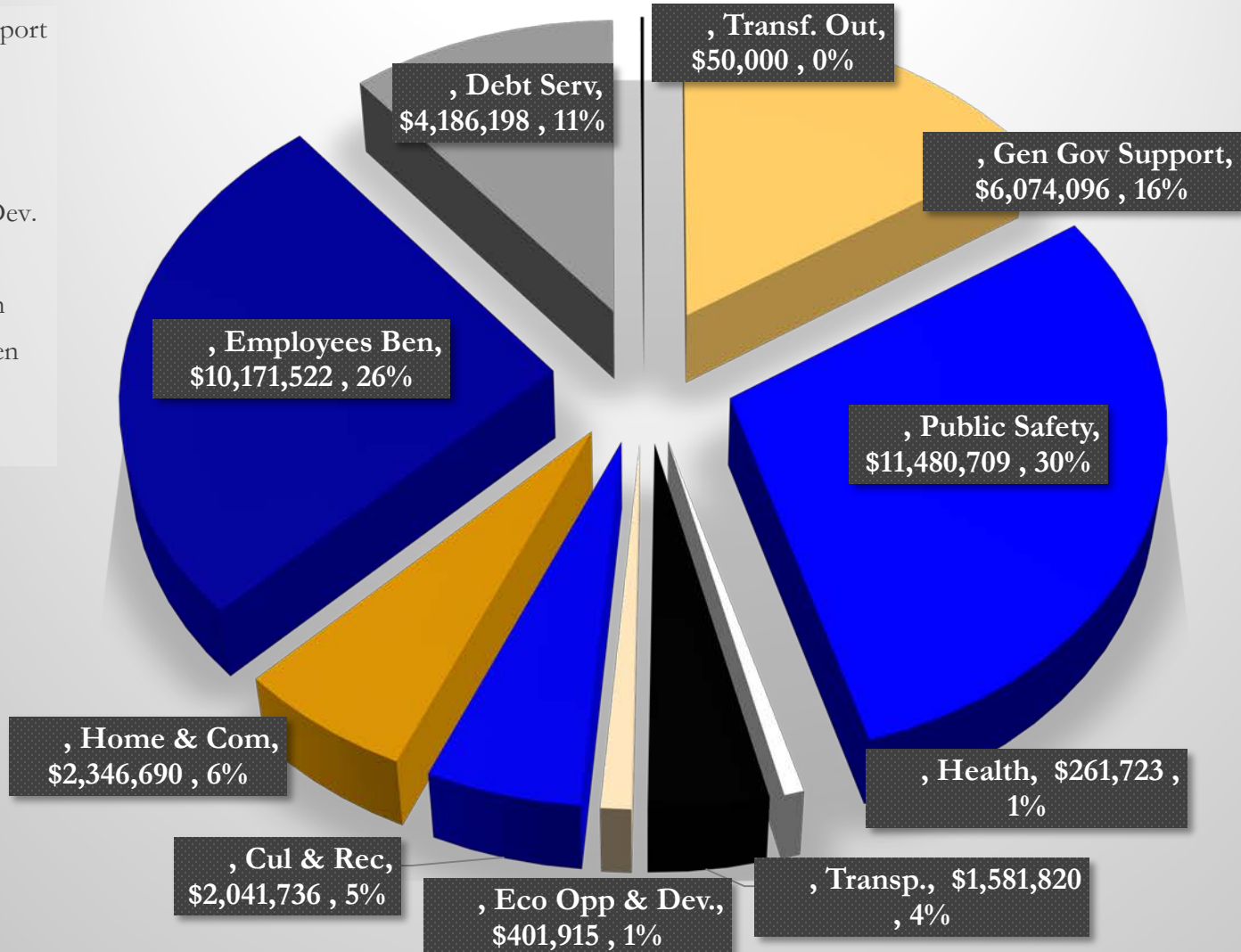
	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	I/(D)	% I/(D)
General Government Support	5,731,348	5,277,166	5,223,832	5,722,910	5,777,905	6,074,096	296,191	5.13%
Public Safety	10,502,802	10,563,255	11,151,690	10,800,962	10,943,903	11,480,709	536,806	4.91%
Health	275,834	275,834	275,834	275,834	275,834	261,723	(14,111)	(5.12%)
Transportation	1,541,764	1,531,750	1,598,036	1,580,943	1,619,827	1,581,820	(38,007)	(2.35%)
Economic Opportunities & Dev.	402,107	412,393	380,660	373,577	393,935	401,915	7,980	2.03%
Culture & Recreation	2,122,954	2,016,864	1,919,095	1,932,843	2,031,001	2,041,736	10,735	.53%
Home & Community Services	2,253,979	2,285,216	2,184,371	2,299,733	2,348,214	2,346,690	(1,524)	(.06%)
Employee Benefits	8,024,500	8,713,731	9,100,192	9,698,077	10,075,458	10,171,522	96,064	.95%
DEBT SERVICE:								
Principal	2,581,081	2,716,000	2,740,000	2,830,000	3,163,750	3,260,650	96,900	3.06%
Interest	1,551,237	1,413,198	1,140,909	1,047,217	1,004,339	925,548	(78,791)	(7.85%)
Total Appropriations	34,987,606	35,205,407	35,714,619	36,562,096	37,634,166	38,546,409	912,243	2.42%
(Deficiency) of Rev. (under) Exp.	(1,625,117)	(1,963,840)	(2,149,940)	(1,750,000)	(1,369,782)	(1,639,086)	(269,304)	(19.66%)



APPROPRIATIONS BY FUNCTION

FY 2015-16 - \$38,596,409

- Gen Gov Support
- Public Safety
- Health
- Transp.
- Eco Opp & Dev.
- Cul & Rec
- Home & Com
- Employees Ben
- Debt Serv
- Transf. Out





GENERAL FUND OTHER FINANCING SOURCES (USES) & NET CHANGE IN FUND BALANCE

	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16	(I)/(D)	% I/(D)
OTHER FINANCING SOURCES (USES)								
Transfers In	950,000	800,000	1,250,000	1,000,000	1,000,000	1,273,592	273,592	27.36%
Transfers Out	(97,212)	-	(50,000)	(50,000)	(50,000)	(50,000)	-	0.00%
Total Other Financing Sources (Uses)	852,788	800,000	1,200,000	950,000	950,000	1,223,592	273,592	28.80%
Net Change in Fund Balance	(772,329)	(1,163,840)	(949,940)	(965,818)	(419,782)	(415,494)	4,288	(1.02%)
Fund Balances - Beginning (audited actual to FY2014-15)	8,855,985	8,713,106	8,977,355	7,849,982	7,228,169	6,808,387	(419,782)	(5.81%)
Fund Balances - Ending	8,083,656	7,549,266	8,027,415	6,884,164	6,808,387	6,392,893	(415,494)	-6.10%
<i>N.B.: FY 2010-11 to FY 2014-15 Beginning Audited Fund Balance</i>								



UNRESERVED FUND BALANCE

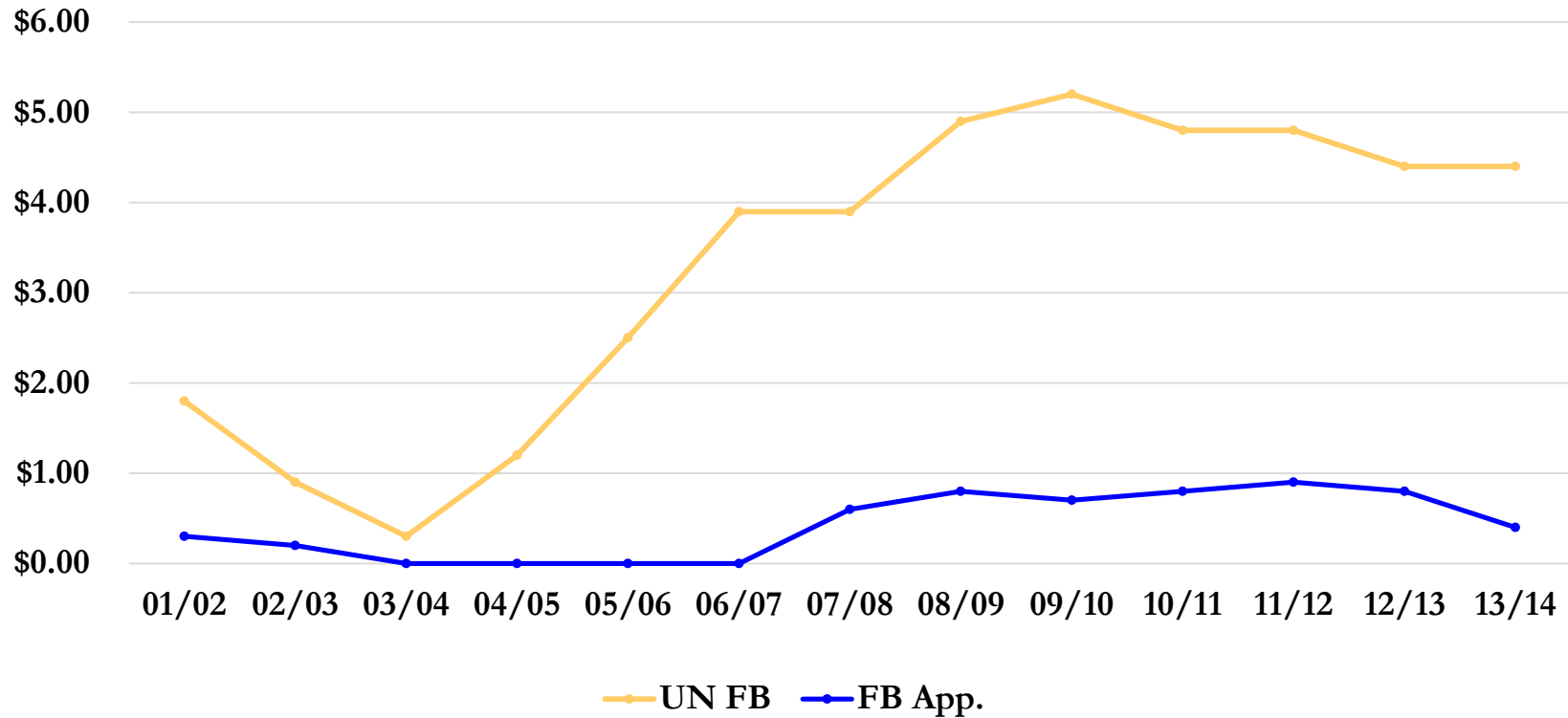
Thirteen Year History

Fiscal Year	Unreserved Fund Balance	Fund Balance Approp.	Fund Balance (Used), Added	Tax Levy % Increase/Decrease
2001-02	\$1,755,750	\$300,000	\$(838,830)	3.47%
2002-03	889,238	150,000	(1,777,514)	1.54%
2003-04	325,416	0	(721,362)	12.64%
2004-05	1,217,893	0	1,575,446	13.84%
2005-06	2,539,236	0	1,348,316	21.90%
2006-07	3,895,981	0	1,447,953	11.92%
2007-08	3,938,970	550,000	2,067,685	5.49%
2008-09	4,938,802	750,000	966,055	3.56%
2009-10	5,166,457	650,000	483,498	1.43%
2010-11	4,768,937	825,000	(142,879)	1.39%
2011-12	4,827,309	865,000	264,250	-5.30%
2012-13	4,381,505	800,000	(1,127,374)	-0.28%
2013-14	4,350,014	369,782	(621,813)	.00%



UNRESERVED FUND BALANCE

Thirteen Year History



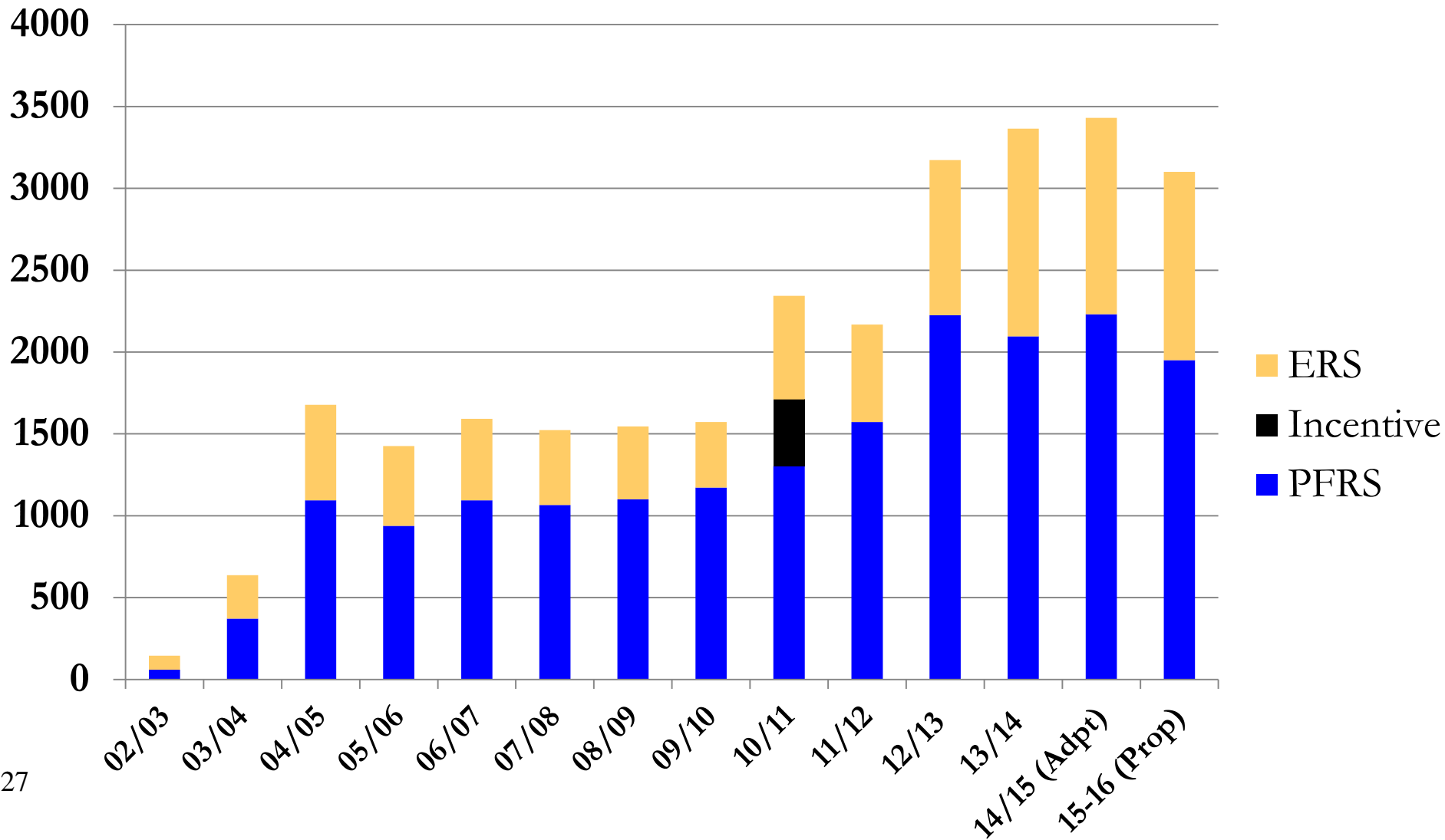


PENSION COST HISTORY

FY	ERS	INCENTIVE	PFRS	TOTAL
2002-03	\$86,309		\$59,351	\$145,660
2003-04	\$264,369		\$372,086	\$636,455
2004-05	\$582,084		\$1,095,041	\$1,677,125
2005-06	\$486,144		\$939,142	\$1,425,286
2006-07	\$498,166		\$1,093,933	\$1,592,099
2007-08	\$457,259		\$1,066,054	\$1,523,313
2008-09	\$445,335		\$1,100,032	\$1,545,367
2009-10	\$400,337		\$1,171,660	\$1,571,997
2010-11	\$633,122	\$407,622	\$1,302,688	\$2,343,432
2011-12	\$595,380		\$1,572,028	\$2,167,408
2012-13	\$947,949		\$2,224,525	\$3,172,474
2013-14	\$1,268,465		\$2,095,616	\$3,364,081
2014-15 (Bdg.)	\$1,200,000		\$2,231,434	\$3,431,434
2015-16	\$1,150,000		\$1,950,000	\$3,100,000



PENSION COST TREND





LONG TERM DEBT SUMMARY

2015-16

- **Balance at 6/1/15** **\$30,655,650**
- **Principal Payment** **\$2,795,650**
- **Balance at 5/31/16** **\$27,860,000**

- **Interest Payment** **\$884,794**



SHORT TERM DEBT SUMMARY

FY 2015-16

•Balance at 6/1/15	\$4,075,000
•Principal Payment	465,000
•Balance at 5/31/15	\$3,610,000
•Interest Payment	\$40,750



OUTSTANDING LONG TERM DEBT

for the Next Ten Years

May 31,	Principal	Interest	Total
2016	2,795,650	884,794	3,680,444
2017	2,870,000	812,216	3,682,216
2018	2,955,000	731,464	3,686,464
2019	3,030,000	651,404	3,681,404
2020	3,105,000	563,753	3,668,753
2021	3,190,000	469,496	3,659,496
2022	2,885,000	374,249	3,259,249
2023	2,675,000	289,184	2,964,184
2024	2,275,000	210,265	2,485,265
2025	2,345,000	135,571	2,480,571



FULL TIME EMPLOYEES BY FUNCTION

FY 2010-11 FY 2011-12 FY 2012-13 FY 2013-14 FY 2014-15 FY 2015-16

General Government	27	25	24	27	29	30
Public Safety	85	83	84	85.5	87.5	88.5
Transportation	14	14	14	13	12	11
Economic Opportunity & Dev.	2	2	2	2	2	2
Culture & Recreation	6	5	4	4	4	4
Home & Community Services	<u>21</u>	<u>21</u>	<u>22</u>	<u>22.5</u>	<u>23.5</u>	<u>23.5</u>
Total	155	150	150	154	158	159



Village of Port Chester Tentative Sewer Fund Budget Presentation Fiscal Year June 1, 2015 to May 31, 2016

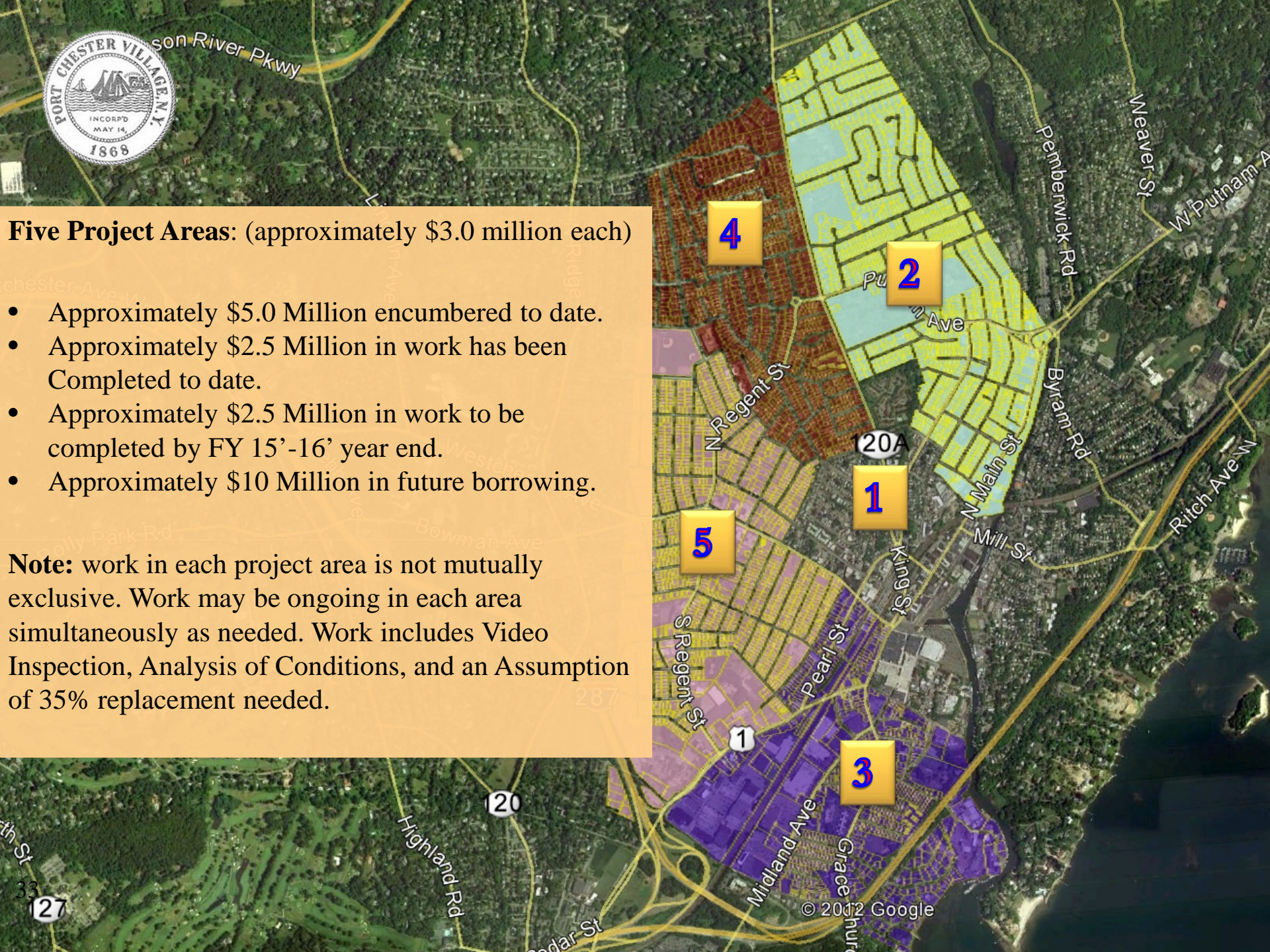
APRIL 6, 2015



Five Project Areas: (approximately \$3.0 million each)

- Approximately \$5.0 Million encumbered to date.
- Approximately \$2.5 Million in work has been Completed to date.
- Approximately \$2.5 Million in work to be completed by FY 15'-16' year end.
- Approximately \$10 Million in future borrowing.

Note: work in each project area is not mutually exclusive. Work may be ongoing in each area simultaneously as needed. Work includes Video Inspection, Analysis of Conditions, and an Assumption of 35% replacement needed.





Sewer Fund Projected Budget

VILLAGE OF PORT CHESTER
SEWER ENTERPRISE FUND REVENUES
MODIFIED & PROJECTED BUDGETS

	FY 2013-14	FY 2014-15	FY 2014-15	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	FY 2020-21
	ACTUAL	ADOPTED	MODIFIED	ACTUAL	TENTATIVE	PROJECTED	PROJECTED	PROJECTED	PROJECTED	PROJECTED
SEWER FUND - 007-007-										
2122 - SEWER USER FEES	\$ 1,318,559	\$ 1,745,822	\$ 1,745,822	\$ 945,070	\$ 1,466,057	\$ 1,510,038	\$ 1,555,339	\$ 1,602,000	\$ 1,650,060	\$ 1,699,561
2128 - INT & PEN ON SEWER ACCOUNTS	\$ 17,416	\$ 5,000	\$ 5,000	\$ 9,758	\$ 12,809	\$ 13,834	\$ 14,966	\$ 15,604	\$ 16,911	\$ 17,000
2597 - SEWER SRV/CONNECTION CHR	\$ 22,000	\$ 22,000	\$ 22,000	\$ -	\$ 37,500	\$ 37,613	\$ 37,725	\$ 37,839	\$ 37,952	\$ 38,066
4995 - APPROPRIATED FUND BALANCE			\$ 230,984					\$ -	\$ 189,067	\$ 142,570
TOTAL REVENUES	\$ 1,357,975	\$ 1,772,822	\$ 2,003,806	\$ 954,828	\$ 1,516,366	\$ 1,561,485	\$ 1,608,030	\$ 1,655,443	\$ 1,893,990	\$ 1,897,197

SEWER RATES (1,063,000 YEARLY CCF: New Base Consumption)
PERCENT INCREASE

\$ 1.338999	\$ 1.338999	\$ 1.379169	\$ 1.420544	\$ 1.463160	\$ 1.507055	\$ 1.552267	\$ 1.598835
	0.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%



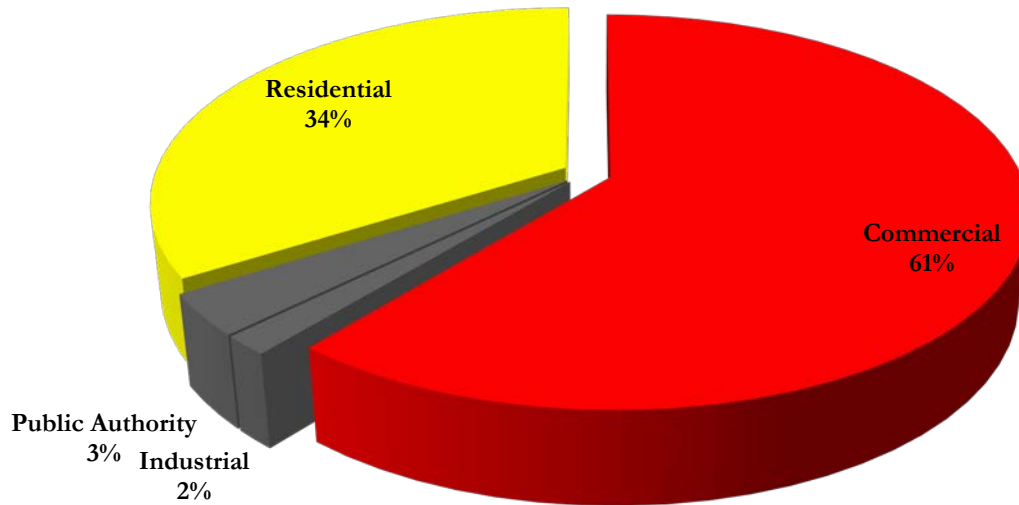


Sewer Fund Budget at a Glance

Appropriations	\$1,516,366
Sewer Rents	\$1,466,057
Other Revenues	\$37,500
Estimated Water Consumption	
Based on Prior Year Per CCF	1,063,000
Sewer Rates Per CCF	\$1.379169
Avg. Yearly Sewer Consumption CCF	120 CCF
Avg. Yearly Sewer Bill (120 x \$1.379169)	\$165.50



Village Water Consumption by Land Use



Source: United Water of Westchester

<u>Land Use</u>	<u>Units of Water Consumed (CCF)</u>	<u>% of Total Consumption</u>
Commercial	64,837	61%
Industrial	16,869	2%
Public Authority	36,230	3%
Residential	361,064	34%
Total	1,063,000	100%



Sewer Rate Calculation FY 2015-16

Sewer Rent Revenues	\$1,466,057
Prior Year Water Consumption	1,063,000 CCF
Rate per CCF	\$1.379169



Long Term Sewer Debt Summary FY 2015-16

• Balance at 6/1/15	\$2,633,538
• Principal Payment	\$221,702
• Balance at 5/31/15	\$2,411,836
• Interest Payment	\$90,497



Outstanding Long Term Sewer Debt for the Next Ten Years

May 31,	Principal	Interest	Total
2016	\$221,702	90,497	\$312,199
2017	228,247	76,281	304,528
2018	236,120	68,754	304,874
2019	244,114	61,624	305,738
2020	250,193	53,608	303,801
2021	258,362	46,279	304,641
2022	266,640	38,615	305,255
2023	248,041	30,640	278,681
2024	206,058	22,978	229,036
2025	213,161	15,428	228,589



Short Term Sewer Debt FY 2015-16

Balance at 6/1/2015	\$3,902,100
Principal Payment	292,100
Balance at 5/31/16	\$3,610,000

BAN will be converted to long-term debt in the future.



QUESTIONS & COMMENTS



Revenue Enhancements

Tentative 2015-16 Budget

Total Proposed	:\$ 365,000
1. Parking Ticket fines	:\$ 300,000
2. Tipping Fees	:\$ 45,000
3. Parking Meter "Covers"	:\$ 20,000



Parking Ticket Fines - Description

Tickets issued for parking in violation of village ordinance. Including failure to pay parking meters, overtime parking, blocking sidewalks, fire hydrants, driveways, etc., expired registrations/inspections, license plate violations and others.



Parking Ticket Fines - Reasoning

1. Last increase was in 2007
2. Brings revenue in from outside of the village
3. Helps to maintain the pace of parking turnover
4. Port Chester prices are relatively low compared to surrounding communities



Parking Ticket Fines - Comparison

Process: Compared Ticket Prices in 13 other local communities (segregated into groups)

- **Villages**

- Ryebrook, Tuckahoe, Mamaroneck, Pelham, Pleasantville, Bronxville, Elmsford

- **Cities**

- Yonkers, Rye, Newburg, New Rochelle, Mt. Vernon

- **Communities with Similar Density**

- Tuckahoe, Pelham, Ossining, Yonkers, Mt. Vernon



Parking Ticket Fines – Comparison

Found average prices for each group and compared to Port Chester's Prices.

•Villages

- The average Village in our study charges 5.5% more than Port Chester Does

•Cities

- The average City in our study charges 39.6% more than Port Chester Does

•Communities with Similar Density

- The average Dense Community in our study charges 58.3% more than Port Chester Does



Parking Ticket Fines – Proposal

Developed a set of ticket prices equating to a 23% increase while remaining competitive with our neighbors.

Application of expected percent increase to Tentative FY15-16 ticket revenues indicates a conservative revenue increase of **\$300,000**



Parking Ticket Fines – Data

<u>Violation Type</u>	<u>Port Chester Ticket Price</u>	<u>Proposed Price</u>	<u>Average Village</u>	<u>Average City</u>	<u>Density Average</u>
01 METER PARKING	\$25.00	\$28.00	\$23.57	\$27.00	\$29.00
02 ONE PLATE	\$30.00	\$75.00	\$40.00	\$57.50	\$86.67
03 PROHIBITED PARK	\$25.00	\$35.00	\$42.86	\$40.00	\$53.00
04 LOADING ZONE	\$25.00	\$40.00	\$45.00	\$53.00	\$87.50
05 OVERTIME 319-23	\$25.00	\$35.00	\$26.43	\$35.00	\$37.00
06 NO PARK/CORNER	\$20.00	\$35.00	\$41.00	\$43.75	\$61.67
07 ILLEGAL SIGN	\$30.00	\$40.00	\$30.00	\$45.00	\$50.00
08 EXP.INSPECTION	\$75.00	\$75.00	\$50.00	\$66.00	\$58.00
09 EXP.REGISTRATIO	\$75.00	\$75.00	\$47.86	\$70.00	\$85.00
10 BROKEN METER	\$20.00	\$35.00	\$20.00	\$26.67	\$27.50
11 LIMITED MARINA	\$25.00	\$35.00	\$35.00	\$35.00	\$38.75
12 COVERED PLATE	\$90.00	\$90.00	\$37.50	\$57.50	\$70.00
14 NO PERMIT	\$40.00	\$50.00	\$49.00	\$45.00	\$59.00
14B DECAL PERMIT	\$40.00	\$50.00	\$45.00	\$45.00	\$59.00
15 DOUBLE PARKING	\$75.00	\$75.00	\$55.00	\$78.00	\$85.00
16 BLOCKED DRIVEWA	\$50.00	\$50.00	\$33.00	\$47.50	\$57.00
17 12"FROM CURB	\$30.00	\$40.00	\$45.00	\$32.50	\$50.00
18 PARK/SIDEWALK	\$50.00	\$50.00	\$27.00	\$42.50	\$63.33
19 BUS STOP	\$50.00	\$50.00	\$40.00	\$55.00	\$75.00
20 FIRE HYDRANT	\$125.00	\$125.00	\$65.00	\$111.25	\$86.00
21 STOP SIGN 30'	\$20.00	\$35.00	\$20.00	\$31.67	\$30.00
22 PARK LEFT/CURB	\$75.00	\$75.00	\$18.75	\$38.33	\$40.00
23 NIGHT MARINA	\$25.00	\$40.00	\$31.00	\$48.00	\$55.00
25 OVERTIME 319-35	\$25.00	\$35.00	\$27.50	\$31.00	\$33.00
33 ALTERNATE SIDE	\$20.00	\$35.00	\$30.00	\$50.00	\$55.00
37 REAR WHEELS/CRB	\$20.00	\$35.00	\$30.00	\$45.00	\$50.00
38 TAXIS ONLY	\$20.00	\$35.00	\$31.67	\$40.00	\$53.33
39 BUS STOP ONLY	\$50.00	\$50.00	\$30.00	\$55.00	\$75.00
43 FIRE ZONE	\$125.00	\$125.00	\$72.14	\$110.00	\$85.00
44 BLOCKING INTER	\$75.00	\$75.00	\$75.00	\$50.00	\$67.50
54 NIGHTTIME PROHIB	\$25.00	\$40.00	\$34.00	\$53.75	\$55.00
56 NO PARKING 1-6	\$25.00	\$40.00	\$34.00	\$53.75	\$55.00
63 ABANDONED VEH	\$75.00	\$200.00	\$212.50	\$191.67	\$400.00
65 SNOW ORDINANCE	\$25.00	\$35.00	\$50.00	\$55.00	\$59.00
68 NO PARK/COM.VEH	\$30.00	\$45.00	\$25.00	\$81.25	\$86.67
86 HANDICAP PARKIN	\$75.00	\$90.00	\$95.00	\$132.50	\$126.25
90 IMPROPER PLATE	\$30.00	\$75.00	\$40.00	\$57.50	\$86.67
97 STREET CLEANING	\$20.00	\$35.00	\$20.00	\$60.00	\$75.00
98 IN CROSSWALK	\$50.00	\$50.00	\$46.25	\$58.33	\$67.50
Total Revenue	\$ 1,727,290.00	\$2,232,258.00	\$ 1,822,177.00	\$ 2,410,446.00	\$ 2,733,911.00



Parking Ticket Fines – Implementation

1. Can be changed by resolution to take effect June 1st.
2. Must update ticket forms for pricing to be enforceable. Estimated to take 1.5 to 2 months.
3. Ticket revenue takes several months to collect and last years tickets will account for the bulk of 1st quarter revenues.

(Adopting before June 1st will maximize returns in the FY15-16 Budget.)



Tipping Fees – Description

Fees paid by residents and Contractors to dump green waste, and household garbage/bulk trash at our Fox Island site. (does NOT include waste picked up around town by DPW on normal garbage days) Includes permits paid by contractors once a year for the right to dump Green Waste.



Tipping Fees – Reasoning

Waste Type	2010	2015	Change
Organic Waste	\$ 15.35	\$ 16.61	8.2%
Solid Waste	\$ 25.00	\$ 27.36	9.4%

1. Have not increased fees since 2010.
2. Pass through expense has been increased by Westchester County.



Tipping Fees – Process

City Carting - Somers	\$110 per ton
City Carting - Stamford	\$125 per ton
Waste Management - Yonkers	\$165 per ton

1. Compared local prices to maintain competitiveness.
2. Applied previous 5 years and anticipated current year Westchester County increases to existing prices to develop 10% increase proposal.



Tipping Fees – Proposal

Port Chester's fees			Current	Proposed
Minimum charge up to 1,000 pounds			\$100.00	\$110.00
	1,000 pounds to 1,999 pounds		\$100.00	\$110.00
	2,000 pounds to 2,500 pounds		\$120.00	\$137.50
	2,501 pounds to 3,000 pounds		\$140.00	\$165.00
	3,001 pounds to 3,500 pounds		\$160.00	\$192.50
	3,501 pounds to 4,000 pounds		\$200.00	\$220.00
	4,001 pounds to 5,000 pounds		\$220.00	\$247.50
	Over 5,000 pounds		\$280.00	\$302.50
Use of dumping facilities - Green Waste				
	Per ton	Prorated	\$50.00	\$ 55.00

	FY 2015-2016 Tentative	With 10% increase in fees.
SOLID WASTE	\$ 22,700	\$ 24,970
GREEN WASTE	\$ 428,000	\$ 470,800

Total increase: approx \$45,000



Tipping Fees – Implementation

1. This fee can be updated by resolution of the Board.
2. Fees have already been advertised for the 2015 season. Implementation June 1st will mean that cash receipts are not likely to be affected until Spring of 2016.



Parking Meter Covers – Description

Parking Meter Covers is a term describing literal bags that were at one time purchased to cover parking meters for a temporary period of time.

Since the Implementation of Digital Parking Meter's this law has been somewhat out of date.

There still needs to be a process for shutting down parking spaces and recovering revenue that would otherwise be collected.



Parking Meter Covers – Reasoning

1. Parking meter spaces are designated for revenue generation, and to create a public good. Logically, these meter covers should reimburse the community for the potential loss in revenue from the removal of that spot, as well as disincentivize the removal of public spaces from our parking stock. The current price structure does neither.
2. Meter covers have not been increased since the increase in meter fees last year.



Parking Meter Covers – Proposal

Parking Spaces in Port Chester are worth \$15 a day (15 hours of operation X \$1 an hour) but we sell the meter covers for a discounted \$6.50. This should change to be more fair to the parking public.

Parking Meter Cover		Per Day, Per Space	
Existing			
	Single		\$ 6.50
	Double		\$ 13.00
Proposed			
	Single		\$ 15.00

Parking Meter Covers represented \$15,312 of Parking Meter Revenue in FY14-15. If we instituted an increase to \$15 per meter bag, the Parking Meter Revenue line could be increased by \$20,000

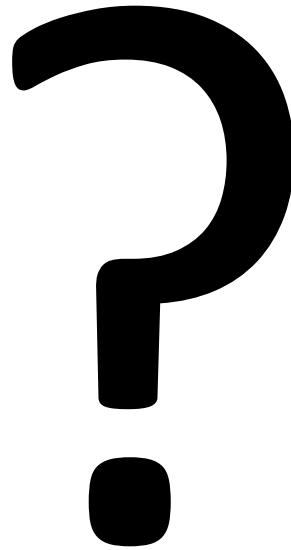


Parking Meter Covers - Implementation

1. This fee should be updated by a local law, which eliminates the “by meter head” language and instead offers a “license to occupy” for temporarily blocking of parking spaces. The license should be limited to temporary uses and should be payable by the day.
2. Implementation of this new license on June 1st can be immediately enforced.



Questions



Emailed Mayor
3-11-15



March 9, 2015

Neil J. Pagano, Mayor
Village of Port Chester
222 Grace Church St
Port Chester, NY 10573

VILLAGE OF PORT CHESTER

MAR 11 2015

RECEIVED *M*

Dear Mayor Pagano,

Pursuant to Section 41.34 of Mental Hygiene Law of the State of New York, this letter shall serve as formal notification of Ability Beyond Disability's intent to establish a community residential home to be located on property we own on Betsy Brown Road, adjacent to 51 Betsy Brown Road. This will be a home for six (6) adults with developmental disabilities, licensed under the Office for People with Developmental Disabilities (OPWDD).

Ability Beyond is a not-for-profit agency with business offices at 4 Berkshire Boulevard, Bethel, CT and 120 Kisco Avenue, Mt. Kisco, NY. We have a 60 plus year history of providing community services for people with disabilities and look forward to working with you and other Village officials in creating this home.

You may recall that we had initiated this process earlier and withdrew it as we sorted through other issues we became aware of regarding the property on which we plan to build the home. We are now prepared to proceed with addressing sub-division and site plan/development as well as this step pursuant to Section 41.34 of Mental Hygiene Law.

We have been advised by OPWDD that the area surrounding our property is not "saturated" with facilities of this nature and that they support our efforts to develop the planned home. We would be pleased to provide you with a printout of a directory listing similar facilities in the area. Under Section 41.34, the Village may 1) Support the site proposed, 2) Offer another suitable site(s) that could accommodate the home or 3) Object because the concentration of facilities of this nature would substantially alter the nature and character of the area. If the Village does not respond within forty (40) days, Ability Beyond may proceed with establishing the home.

It is our intent to immediately begin working with Village officials to secure necessary approvals and, again, we look forward to working with you and your Village colleagues throughout the process.

Sincerely,

A handwritten signature in black ink, appearing to read "T. Fanning".

Thomas H. Fanning,
President/CEO

cc: David Steinmetz

PUBLIC NOTICE

PUBLIC NOTICE is hereby given that the Board of Trustees hereby schedules a public hearing on Monday, April 13, 2015 at 7:00 P.M., or as soon thereafter at the Port Chester Justice Courtroom, 2nd Floor, 350 North Main Street, Port Chester, New York, to consider the application of Ability Beyond Disability to establish a community residence for six adults with developmental disabilities to be licensed by the New York Office for People with Developmental Disabilities.

Interested persons are invited to attend and will be afforded the opportunity to be heard at this time. The copy of the proposed local law is available at the Village Clerk's office or online at the Village website www.portchesterny.com.

Date: March 27, 2015

/s/ JANUSZ R. RICHARDS
JANUSZ R. RICHARDS
Village Clerk
Village of Port Chester, New York

MT VERNON GROUP HOME R
152 EAST PROSPECT STREET FACILITY ID: 00010009 GROUP SERVED: AGE: 16-18 SEX: M/F
MOUNT VERNON 10550 CAPACITY: 0010 SCHOOL DISTRICT CODE - 660900 PERSONS SERVED: JUVENILE DELINQUENT
DEPENDENT-NEGLECTED
PINS
LICENSING AGENCY: OFFICE OF CHILDREN AND FAMILY SERVICES TYPE: GROUP HOME
SPONSOR:
JEWISH BOARD OF FAMILY AND CHILDREN'S SERVICES SERVICES: RESID. CHILD CARE GENERAL SUPERVISION
120 WEST 57TH STREET SOC. SERV./COUNSELING
NEW YORK NY 10019 TEL. (212)582 -9100 SPONSORSHIP: NOT-FOR-PROFIT HEALTH SUPERVISION

SHALOM NURSING HOME R
10 CLAREMONT AVENUE FACILITY ID: 5903310N GROUP SERVED: AGE: 16-99 SEX: M/F
MOUNT VERNON 10550 CAPACITY: 0240 SCHOOL DISTRICT CODE - 660900 PERSONS SERVED: NURSING CARE REQUIRE
LICENSING AGENCY: NEW YORK STATE DEPARTMENT OF HEALTH TYPE: NURSING HOME
SPONSOR:
NATIONAL COUNCIL OF YOUNG ISRAEL SERVICES: SKILLED NURSING CARE
3 WEST 16TH STREET ACTIVITIES PROGRAM
NEW YORK NY 10001 TEL. (212) 929-1525 SPONSORSHIP: NOT-FOR-PROFIT

WARTBURG NURSING HOME R
BRADLEY AVENUE FACILITY ID: 5903309N GROUP SERVED: AGE: 16-99 SEX: M/F
MOUNT VERNON 10552 CAPACITY: 0240 SCHOOL DISTRICT CODE - 660900 PERSONS SERVED: NURSING CARE REQUIRE
HEALTH SERVICES REQ.
LICENSING AGENCY: NEW YORK STATE DEPARTMENT OF HEALTH TYPE: COMB NURSING HOME & HEALTH RELATED
SPONSOR:
WARTBURG ORPHAN'S FARM SCHOOL SERVICES: RESID. PERS. SERV.
BRADLEY AVENUE SKILLED NURSING CARE
MOUNT VERNON NY 10552 TEL. (914) 699-0800 SPONSORSHIP: NOT-FOR-PROFIT ACTIVITIES PROGRAM

38 CARPENTER AVENUE IRA R
38 CARPENTER AVENUE APT 2 FACILITY ID: 00014866 GROUP SERVED: AGE: 00-99 SEX: M/F
MT KISCO 10549 CAPACITY: 0005 SCHOOL DISTRICT CODE - PERSONS SERVED: MENTALLY RETARDED/DV
LICENSING AGENCY: OFF OF MENTAL RETARDATION & DEVEL DISAB TYPE: INDIV RESIDENTIAL ALTERNATIVE (IRA)
SPONSOR:
DATAHR REHABILITATION INSTITUTE SERVICES: RESID./HABILIT. SERV.
96 LEXINGTON AVENUE
MT KISCO TEL. SPONSORSHIP: NOT-FOR-PROFIT

COUNTY: WESTCHESTER MUNICIPALITY: MT VERNON CITY OF

HEALTH SERVICE AREA: 7

01/23/15 PAGE 0031

DILLARD HOME FOR ADULTS R
187 COTTAGE AVE
MT VERNON 10550

FACILITY ID: 0800FO09
CAPACITY: 0021 SCHOOL DISTRICT CODE - 660900

GROUP SERVED: AGE: 18-99 SEX: M/F
PERSONS SERVED: DEPENDENT ADULT

LICENSING AGENCY: NEW YORK STATE DEPARTMENT OF HEALTH
SPONSOR:
BERNARD DILLARD

TYPE: PROPRIETARY HOME FOR ADULTS

SERVICES: CONGREGATE CARE
PERSONAL CARE/SUPV.

TEL. (914) 699-4294 SPONSORSHIP: PROPRIETARY

COUNTY: WESTCHESTER MUNICIPALITY: NEW CASTLE TOWN OF

HEALTH SERVICE AREA: 7

14 DONALD LANE ICF
14 DONALD LANE
OSSINING 10562

FACILITY ID: 00017454
CAPACITY: 0006 SCHOOL DISTRICT CODE -

01 GROUP SERVED: AGE: 00-99 SEX: M/F
PERSONS SERVED: MENTALLY RETARDED/DV

LICENSING AGENCY: OFF OF MENTAL RETARDATION & DEVEL DISAB
SPONSOR:
RICHMOND CHILDREN'S CENTER
272 NORTH BEDFORD ROAD
MT. KISCO

TYPE: COMMUNITY-BASED ICF/DD

SERVICES: RESID./HABILIT. SERV.

TEL. (914)471-4105 SPONSORSHIP:

14 HAWKES CLOSE ROAD IRA
14 HAWKES CLOSE ROAD
OSSINING 10562

FACILITY ID: 00015204
CAPACITY: 0008 SCHOOL DISTRICT CODE -

01 GROUP SERVED: AGE: 18-61 SEX: M/F
PERSONS SERVED: MENTALLY RETARDED/DV

LICENSING AGENCY: OFF OF MENTAL RETARDATION & DEVEL DISAB
SPONSOR:
COMMUNITY BASED SERVICES, INC.
3 FIELDS LANE
NORTH SALEM

TYPE: INDIV RESIDENTIAL ALTERNATIVE (IRA)

SERVICES: RESID./HABILIT. SERV.

TEL. (914)277-4771 SPONSORSHIP: NOT-FOR-PROFIT

4 LOCUST ROAD IRA
4 LOCUST ROAD
OSSINING 10562

FACILITY ID: 00017593
CAPACITY: 0005 SCHOOL DISTRICT CODE -

01 GROUP SERVED: AGE: 18-61 SEX: M/F
PERSONS SERVED: MENTALLY RETARDED/DV

LICENSING AGENCY: OFF OF MENTAL RETARDATION & DEVEL DISAB
SPONSOR:
CARDINAL MCCLOSKEY SERVICES
115 STEVENS AVENUE, LL5
VALHALLA

TYPE: INDIV RESIDENTIAL ALTERNATIVE (IRA)

SERVICES: RESID./HABILIT. SERV.

TEL. (914)997-8000 SPONSORSHIP:

NEW CASTLE CR
11 SETH CANYON DRIVE
NEW CASTLE 10549

FACILITY ID: 00013026
CAPACITY: 0012 SCHOOL DISTRICT CODE - 660102

GROUP SERVED: AGE: 00-99 SEX: M/F
PERSONS SERVED: MENTALLY RETARDED/DV

LICENSING AGENCY: OFF OF MENTAL RETARDATION & DEVEL DISAB
SPONSOR:
COMMUNITY LIVING CORPORATION
600 BEDFORD RD
MT KISCO NY 10549 TEL.

TYPE: SUPERVISED COMMUNITY RESIDENCE

SERVICES: RESID./HABILIT. SERV.
ADL
COUNSELING

SPONSORSHIP: NOT-FOR-PROFIT

7 RIVERVIEW FARM ROAD IRA
7 RIVERVIEW FARM ROAD
OSSINING 10562

FACILITY ID: 00010750
CAPACITY: 0007 SCHOOL DISTRICT CODE - 661401

01 GROUP SERVED: AGE: 18-61 SEX: M/F

PERSONS SERVED: MENTALLY RETARDED/DV

LICENSING AGENCY: OFF OF MENTAL RETARDATION & DEVEL DISAB
SPONSOR:
WESTCHESTER COUNTY CHAPTER, NYS ARC, INC.
121 WESTMORELAND AVENUE
WHITE PLAINS TEL. (914)428-8330

TYPE: INDIV RESIDENTIAL ALTERNATIVE (IRA)

SERVICES: RESID./HABILIT. SERV.

SPONSORSHIP: NOT-FOR-PROFIT

1499 NORTH AVENUE IRA
1499 NORTH AVENUE
NEW ROCHELLE 10804

FACILITY ID: 00015512
CAPACITY: 0006 SCHOOL DISTRICT CODE -

01 GROUP SERVED: AGE: 18-61 SEX: M/F

PERSONS SERVED: MENTALLY RETARDED/DV

LICENSING AGENCY: OFF OF MENTAL RETARDATION & DEVEL DISAB
SPONSOR:
JEWISH BOARD OF FAMILY AND CHILDREN'S SERVICES, INC.
120 WEST 57TH STREET
7TH FLOOR, NEW YORK TEL. (212)582-9100

TYPE: INDIV RESIDENTIAL ALTERNATIVE (IRA)

SERVICES: RESID./HABILIT. SERV.

SPONSORSHIP:

24 BELVIDERE AVENUE IRA
24 BELVIDERE AVENUE
NEW ROCHELLE

FACILITY ID: 00015044
CAPACITY: 0006 SCHOOL DISTRICT CODE -

GROUP SERVED: AGE: 00-99 SEX: M/F
PERSONS SERVED: MENTALLY RETARDED/DV

LICENSING AGENCY: OFF OF MENTAL RETARDATION & DEVEL DISAB
SPONSOR:
YOUNG ADULT INSTITUTE AND WORK- SHOP, INC
460 WEST 34TH STREET
NEW YORK TEL.

TYPE: INDIV RESIDENTIAL ALTERNATIVE (IRA)

SERVICES: RESID./HABILIT. SERV.

SPONSORSHIP: NOT-FOR-PROFIT

42 STRATTON ROAD ICF 01 GROUP SERVED: AGE: 18-61 SEX: M/F
 42 STRATTON ROAD FACILITY ID: 00011273 PERSONS SERVED: MENTALLY RETARDED/DV
 NEW ROCHELLE 10804 CAPACITY: 0010 SCHOOL DISTRICT CODE - 662300

LICENSING AGENCY: OFF OF MENTAL RETARDATION & DEVEL DISAB TYPE: INSTITUTION
 SPONSOR:
 YOUNG ADULT INSTITUTE AND WORK- SHOP, INC. SERVICES: RESID./HABILIT. SERV.
 460 WEST 34TH STREET
 NEW YORK TEL. (212)563-7474 SPONSORSHIP: NOT-FOR-PROFIT

45 SPENCER DRIVE WEST IRA 01 GROUP SERVED: AGE: 00-99 SEX: M/F
 45 SPENCER DRIVE WEST FACILITY ID: 00017188 PERSONS SERVED: MENTALLY RETARDED/DV
 NEW ROCHELLE 10801 CAPACITY: 0006 SCHOOL DISTRICT CODE -

LICENSING AGENCY: OFF OF MENTAL RETARDATION & DEVEL DISAB TYPE: INDIV RESIDENTIAL ALTERNATIVE (IRA)
 SPONSOR:
 YOUNG ADULT INSTITUTE & WKSHOP SERVICES: RESID./HABILIT. SERV.
 460 WEST 34TH STREET
 NEW YORK TEL. (212)563-7474 SPONSORSHIP:

66 ELK AVENUE ICF 01 GROUP SERVED: AGE: 18-61 SEX: M/F
 66 ELK AVENUE FACILITY ID: 00017262 PERSONS SERVED: MENTALLY RETARDED/DV
 NEW ROCHELLE 10804 CAPACITY: 0008 SCHOOL DISTRICT CODE -

LICENSING AGENCY: OFF OF MENTAL RETARDATION & DEVEL DISAB TYPE: INSTITUTION
 SPONSOR:
 CEREBRAL PALSY OF WESTCHESTER, IN SERVICES: RESID./HABILIT. SERV.
 1186 KING STREET
 RYE BROOK TEL. (914)937-3800 SPONSORSHIP:

70 HANSON LANE IRA 01 GROUP SERVED: AGE: 00-99 SEX: M/F
 70 HANSON LANE FACILITY ID: 00017503 PERSONS SERVED: MENTALLY RETARDED/DV
 NEW ROCHELLE 10804 CAPACITY: 0004 SCHOOL DISTRICT CODE -

LICENSING AGENCY: OFF OF MENTAL RETARDATION & DEVEL DISAB TYPE: INDIV RESIDENTIAL ALTERNATIVE (IRA)
 SPONSOR:
 CEREBRAL PALSY OF WESTCHESTER, I SERVICES: RESID./HABILIT. SERV.
 1186 KING STREET
 RYE BROOK TEL. (914)937-3800 SPONSORSHIP:

ABBOTT HOUSE (GE) GROUP SERVED: AGE: 10-18 SEX: M/F
 19 ROCHELLE PLACE FACILITY ID: 00009510 PERSONS SERVED: DEPENDENT-NEGLECTED
 NEW ROCHELLE 10801 CAPACITY: 0011 SCHOOL DISTRICT CODE - 661100 JUVENILE DELINQUENT
 PINS
 LICENSING AGENCY: OFFICE OF CHILDREN AND FAMILY SERVICES TYPE: GROUP HOME
 SPONSOR:
 ABBOTT HOUSE SERVICES: RESID. CHILD CARE GENERAL SUPERVISION
 100 N BROADWAY SOC. SERV./COUNSELING
 IRVINGTON/HUDSON NY 10533 TEL. SPONSORSHIP: NOT-FOR-PROFIT HEALTH SUPERVISION

39 SULLIVAN ROAD IRA 01 GROUP SERVED: AGE: 18-61 SEX: M/F
 39 SULLIVAN ROAD FACILITY ID: 00011688 PERSONS SERVED: MENTALLY RETARDED/DV
 NORTH SALEM 10560 CAPACITY: 0010 SCHOOL DISTRICT CODE - 661301

LICENSING AGENCY: OFF OF MENTAL RETARDATION & DEVEL DISAB TYPE: INDIV RESIDENTIAL ALTERNATIVE (IRA)
 SPONSOR: HUDSON VALLEY DDSO SERVICES: RESID./HABILIT. SERV.
 P.O.BOX 470 THIELLS TEL. (845)947-6000 SPONSORSHIP: PUBLIC

DEVEAU ROAD CR-IRA GROUP SERVED: AGE: 00-99 SEX: M/F
 8 DEVEAN ROAD FACILITY ID: 00009632 PERSONS SERVED: MENTALLY RETARDED/DV
 NORTH SALEM 10560 CAPACITY: 0006 SCHOOL DISTRICT CODE - 661301

LICENSING AGENCY: OFF OF MENTAL RETARDATION & DEVEL DISAB TYPE: INDIV RESIDENTIAL ALTERNATIVE (IRA)
 SPONSOR: CARDINAL MCCLOSKEY SERVICES SERVICES: RESID./HABILIT. SERV.
 2 HOLLAND AVENUE ADL
 WHITE PLAINS 10603 TEL. SPONSORSHIP: NOT-FOR-PROFIT COUNSELING

SALEM HILLS NURSING CARE CENTER GROUP SERVED: AGE: 16-99 SEX: M/F
 BOX 66 ROUTE 22 FACILITY ID: 5960301N PERSONS SERVED: NURSING CARE REQUIRE
 PURDYS STATION 10579 CAPACITY: 0126 SCHOOL DISTRICT CODE - 661300 HEALTH SERVICES REQ.

LICENSING AGENCY: NEW YORK STATE DEPARTMENT OF HEALTH TYPE: COMB NURSING HOME & HEALTH RELATED
 SPONSOR: SALEM HILLS NURSING CARE CENTER SERVICES: RESID. PERS. SERV.
 BOX 66, ROUTE 22 SKILLED NURSING CARE
 PURDYS STATION TEL. SPONSORSHIP: PROPRIETARY ACTIVITIES PROGRAM

WATERVIEW HILLS NURSING CENTER INC GROUP SERVED: AGE: 16-99 SEX: M/F
 OLD ROUTE 22 PO BOX 257 FACILITY ID: 5960300N PERSONS SERVED: NURSING CARE REQUIRE
 PURDY STATION 10578 CAPACITY: 0130 SCHOOL DISTRICT CODE - 661301

LICENSING AGENCY: NEW YORK STATE DEPARTMENT OF HEALTH TYPE: NURSING HOME
 SPONSOR: WATERVIEW HILLS NURSING CTR INC SERVICES: SKILLED NURSING CARE
 PO BOX 257 OLD ROUTE 22 ACTIVITIES PROGRAM
 PURDY STATION NY 10578 TEL. (914) 277-3691 SPONSORSHIP: PROPRIETARY

PHELPS MENTAL HEALTH CENTER N GROUP SERVED: AGE: 18-99 SEX: M/F
701 NORTH BROADWAY FACILITY ID: 00012198 PERSONS SERVED: MENTALLY DISABLED
NORTH TARRYTOWN 10591 CAPACITY: 0019 SCHOOL DISTRICT CODE - 660401

LICENSING AGENCY: OFFICE OF MENTAL HEALTH TYPE: PSYCHIATRIC HOSPITAL
SPONSOR: PHELPS MEMORIAL HOSPITAL ASSOCIATION SERVICES: INPATIENT/TREATMENT
701 NORTH BROADWAY
NORTH TARRYTOWN NY 10591 TEL. (914)-631-5100 SPONSORSHIP: NOT-FOR-PROFIT

FAITH ADULT HOME N GROUP SERVED: AGE: 18-99 SEX: M/F
141 SPRING STREET FACILITY ID: 0800F119 PERSONS SERVED: DEPENDENT ADULT
OSSINING 10562 CAPACITY: 0014 SCHOOL DISTRICT CODE - 661401

LICENSING AGENCY: NEW YORK STATE DEPARTMENT OF HEALTH TYPE: PROPRIETARY HOME FOR ADULTS
SPONSOR: ILEY M HENRY SERVICES: CONGREGATE CARE
PERSONAL CARE/SUPV.
TEL. (914) 762-8492 SPONSORSHIP: PROPRIETARY

304 JACLYN LANE IRA N GROUP SERVED: AGE: 00-99 SEX: M/F
304 JACLYN LANE FACILITY ID: 00015083 PERSONS SERVED: MENTALLY RETARDED/DV
OSSINING 10562 CAPACITY: 0008 SCHOOL DISTRICT CODE -

LICENSING AGENCY: OFF OF MENTAL RETARDATION & DEVEL DISAB TYPE: INDIV RESIDENTIAL ALTERNATIVE (IRA)
SPONSOR: COMMUNITY LIVING CORPORATION SERVICES: RESID./HABILIT. SERV.
600 BEDFORD ROAD
MT KISCO TEL. () - SPONSORSHIP: NOT-FOR-PROFIT

53 SOMERSTOWN ROAD IRA N GROUP SERVED: AGE: 00-99 SEX: M/F
53 SOMERSTOWN ROAD FACILITY ID: 00014977 PERSONS SERVED: MENTALLY RETARDED/DV
OSSINING 10562 CAPACITY: 0006 SCHOOL DISTRICT CODE -

LICENSING AGENCY: OFF OF MENTAL RETARDATION & DEVEL DISAB TYPE: INDIV RESIDENTIAL ALTERNATIVE (IRA)
SPONSOR: HAWTHORNE FOUNDATION, INC SERVICES: RESID./HABILIT. SERV.
5 BRADHURST AVENUE
HAWTHORNE TEL. SPONSORSHIP: NOT-FOR-PROFIT

LIVING INDEPENDENTLY FOR THE ELDERLY
36 HAMILTON AVE
OSSINING 10562

FACILITY ID: 0800S118
CAPACITY: 0008 SCHOOL DISTRICT CODE - 661401

GROUP SERVED: AGE: 18-99 SEX: M/F
PERSONS SERVED: DEPENDENT ADULT

LICENSING AGENCY: NEW YORK STATE DEPARTMENT OF HEALTH
SPONSOR:
LIVING INDEPENDENTLY

TYPE: ENRICHED HOUSING

SERVICES: ROOM/BOARD/HSE. SOCIAL REHABILITATION
PERSONAL CARE/SUPV.
CASE MANAGEMENT

TEL. (914) 762-0971 SPONSORSHIP: PROPRIETARY

OSSINING OPEN DOOR ASSOCIATES EHP
15 MAPLE PLACE
OSSINING 10562

FACILITY ID: 0800S121
CAPACITY: 0018 SCHOOL DISTRICT CODE - 661401

GROUP SERVED: AGE: 65-99 SEX: M/F
PERSONS SERVED: DEPENDENT ADULT

LICENSING AGENCY: NEW YORK STATE DEPARTMENT OF HEALTH
SPONSOR:
WESTCHESTER CO

TYPE: ENRICHED HOUSING

SERVICES: ROOM/BOARD/HSE. SOCIAL REHABILITATION
PERSONAL CARE/SUPV.
CASE MANAGEMENT

TEL. (914) 941-4509 SPONSORSHIP: PROPRIETARY

VICTORIA HOME FOR RETIRED MEN ANDWOMEN
N MALCOLM STREET
OSSINING 10562

FACILITY ID: 5905305N
CAPACITY: 0049 SCHOOL DISTRICT CODE - 661401

GROUP SERVED: AGE: 16-99 SEX: M/F
PERSONS SERVED: NURSING CARE REQUIRE
HEALTH SERVICES REQ.

LICENSING AGENCY: NEW YORK STATE DEPARTMENT OF HEALTH
SPONSOR:
VICTORIA HOME FOR RETIRED MEN AN D

TYPE: COMB NURSING HOME & HEALTH RELATED

SERVICES: RESID. PERS. SERV.
SKILLED NURSING CARE
ACTIVITIES PROGRAM

TEL. SPONSORSHIP: NOT-FOR-PROFIT

BETHEL NURSING HOME COMPANY INC D
17 NARRAGANSETT AVENUE
OSSINING 10562

FACILITY ID: 5905303N
CAPACITY: 0078 SCHOOL DISTRICT CODE - 661401

GROUP SERVED: AGE: 60-99 SEX: M/F
PERSONS SERVED: NURSING CARE REQUIRE

LICENSING AGENCY: NEW YORK STATE DEPARTMENT OF HEALTH
SPONSOR:
BETHEL NURSING HOME COMPANY INC
19 NARRAGANSETT AVENUE
OSSINING NY 10562

TYPE: NURSING HOME

SERVICES: SKILLED NURSING CARE
ACTIVITIES PROGRAM

TEL. (914) 941-7300 SPONSORSHIP: NOT-FOR-PROFIT

BRIAR CREST NURSING HOME D
 31 OVERTON ROAD FACILITY ID: 5905300N GROUP SERVED: AGE: 16-99 SEX: M/F
 OSSINING 10562 CAPACITY: 0086 SCHOOL DISTRICT CODE - 661401 PERSONS SERVED: NURSING CARE REQUIRE

LICENSING AGENCY: NEW YORK STATE DEPARTMENT OF HEALTH TYPE: NURSING HOME
 SPONSOR: BRIAR CREST CORPORATION SERVICES: SKILLED NURSING CARE
 31 OVERTON ROAD ACTIVITIES PROGRAM
 OSSINING NY 10562 TEL. (914) 941-4047 SPONSORSHIP: PROPRIETARY

CARDINAL MCCLOSKEY EMERGENCY RESIDENCE/TREC GROUP SERVED: AGE: 10-18 SEX: M/F
 155 NORTH HIGHLAND AVENUE FACILITY ID: 00010034 PERSONS SERVED: JUVENILE DELINQUENT
 OSSINING 10562 CAPACITY: 0020 SCHOOL DISTRICT CODE - 661401 DEPENDENT-NEGLECTED
 PINS

LICENSING AGENCY: OFFICE OF CHILDREN AND FAMILY SERVICES TYPE: GROUP RESIDENCE
 SPONSOR: CARDINAL MCCLOSKEY SCHOOL SERVICES: RESID. CHILD CARE HEALTH/MEDICAL
 980 MAMORONECK AVENUE SOC. SERV./COUNSELING
 WHITE PLAINS NY 10605 TEL. (914) 997-8000 SPONSORSHIP: NOT-FOR-PROFIT RECREATION

CEDAR MANOR NURSING HOME I
 CEDAR LANE FACILITY ID: 5905302N GROUP SERVED: AGE: 16-99 SEX: M/F
 OSSINING 10562 CAPACITY: 0153 SCHOOL DISTRICT CODE - 661401 PERSONS SERVED: NURSING CARE REQUIRE

LICENSING AGENCY: NEW YORK STATE DEPARTMENT OF HEALTH TYPE: NURSING HOME
 SPONSOR: MYSHRALL VIOLET SERVICES: SKILLED NURSING CARE
 CEDAR LANE ACTIVITIES PROGRAM
 OSSINING NY 10562 TEL. (914) 762-1600 SPONSORSHIP: PROPRIETARY

FRIEDMAN REHAB INSTITUTE FOR CHILDREN GROUP SERVED: AGE: 05-13 SEX: M/F
 SPRING VALLEY ROAD FACILITY ID: 5961301N PERSONS SERVED: HEALTH SERVICES REQ.
 OSSINING 10562 CAPACITY: 0044 SCHOOL DISTRICT CODE - 661401

LICENSING AGENCY: NEW YORK STATE DEPARTMENT OF HEALTH TYPE: HEALTH RELATED FACILITY
 SPONSOR: FRIEDMAN REHAB INSTITUTE SERVICES: RESID. PERS. SERV.
 SPRING VALLEY ROAD ACTIVITIES PROGRAM
 OSSINING NY 10562 TEL. (914) 762-2110 SPONSORSHIP: NOT-FOR-PROFIT

GREEN CHIMNEY'S CEDAR LANE L
 185 CEDAR LANE FACILITY ID: 00002483 GROUP SERVED: AGE: 08-21 SEX: M
 OSSINING 10562 CAPACITY: 0008 SCHOOL DISTRICT CODE - 661401 PERSONS SERVED: JUVENILE DELINQUENT
 DEPENDENT-NEGLECTED
 PINS

LICENSING AGENCY: OFFICE OF CHILDREN AND FAMILY SERVICES TYPE: GROUP HOME
 SPONSOR: GREEN CHIMNEY'S CHILDREN'S SERVICES, INC SERVICES: RESID. CHILD CARE GENERAL SUPERVISION
 PUTNAM LAKE RD-CALLER 719 SOC. SERV./COUNSELING
 BREWSTER NY 10509 TEL. (914) 279-2995 SPONSORSHIP: NOT-FOR-PROFIT HEALTH SUPERVISION

MARYKNOLL NURSING HOME INC L
 MARYKNOLL FACILITY ID: 5961302N GROUP SERVED: AGE: 18-99 SEX: M/F
 OSSINING 10545 CAPACITY: 0060 SCHOOL DISTRICT CODE - 661401 PERSONS SERVED: NURSING CARE REQUIRE

LICENSING AGENCY: NEW YORK STATE DEPARTMENT OF HEALTH TYPE: NURSING HOME
 SPONSOR: MARYKNOLL NURSING HOME INC SERVICES: SKILLED NURSING CARE
 MARYKNOLL ACTIVITIES PROGRAM
 OSSINING NY 10545 TEL. 914-941-7575 SPONSORSHIP: NOT-FOR-PROFIT

NARRAGANSETT HOUSE L
 47 NARRAGANSETT AVE FACILITY ID: 00005777 GROUP SERVED: AGE: 18-99 SEX: M/F
 OSSINING 10562 CAPACITY: 0012 SCHOOL DISTRICT CODE - 661401 PERSONS SERVED: MENTALLY RETARDED/DV
 PHYSICAL HANDICAP

LICENSING AGENCY: OFF OF MENTAL RETARDATION & DEVEL DISAB TYPE: COMMUNITY-BASED ICF/DD
 SPONSOR: LETCHWORTH DDSO SERVICES: RESID./HABILIT. SERV.
 PO BOX 470-HUMAN RESOURCES ADL
 THIELLS NY 10984 TEL. 914-631-8188 SPONSORSHIP: PUBLIC COUNSELING

STONY LODGE HOSPITAL L
 CROTON DAM ROAD FACILITY ID: 00007188 GROUP SERVED: AGE: 14-99 SEX: M/F
 OSSINING 10562 CAPACITY: 0061 SCHOOL DISTRICT CODE - 661401 PERSONS SERVED: MENTALLY DISABLED

LICENSING AGENCY: OFFICE OF MENTAL HEALTH TYPE: PSYCHIATRIC HOSPITAL
 SPONSOR: STONY LODGE HOSPITAL SERVICES: INPATIENT/TREATMENT
 CROTON DAM ROAD
 OSSINING NY 10562 TEL. 914-941-7400 SPONSORSHIP: PROPRIETARY

BETHEL METHODIST HOME L
 19 NARRAGANSETT AVENUE FACILITY ID: 5905306N GROUP SERVED: AGE: 16-99 SEX: M/F
 OSSINING 10562 CAPACITY: 0112 SCHOOL DISTRICT CODE - 342700 PERSONS SERVED: NURSING CARE REQUIRE
 HEALTH SERVICES REQ.

LICENSING AGENCY: NEW YORK STATE DEPARTMENT OF HEALTH TYPE: COMB NURSING HOME & HEALTH RELATED
 SPONSOR: BETHEL METHODIST HOME INC SERVICES: RESID. PERS. SERV.
 SKILLED NURSING CARE
 TEL. SPONSORSHIP: NOT-FOR-PROFIT ACTIVITIES PROGRAM

COUNTY: WESTCHESTER MUNICIPALITY: PEEKSKILL

HEALTH SERVICE AREA: 7

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FIELD HOME L
RD 4 BOX 278 CATHERINE ST
PEEKSKILL 10566

FACILITY ID: O800EO11
CAPACITY: 0038 SCHOOL DISTRICT CODE - 661500

GROUP SERVED: AGE: 18-99 SEX: M/F
PERSONS SERVED: DEPENDENT ADULT

LICENSING AGENCY: NEW YORK STATE DEPARTMENT OF HEALTH
SPONSOR:
FIELD HOME INC

TYPE: NOT-FOR-PROFIT HOME FOR ADULTS

SERVICES: CONGREGATE CARE
PERSONAL CARE/SUPV.

TEL. (914) 737-0099 SPONSORSHIP: NOT-FOR-PROFIT

COUNTY: WESTCHESTER MUNICIPALITY: PEEKSKILL CITY OF

HEALTH SERVICE AREA: 7

1 STACEY COURT IRA
1 STACEY COURT
PEEKSKILL 10566

FACILITY ID: 00017232
CAPACITY: 0006 SCHOOL DISTRICT CODE -

01 GROUP SERVED: AGE: 00-99 SEX: M/F
PERSONS SERVED: MENTALLY RETARDED/DV

LICENSING AGENCY: OFF OF MENTAL RETARDATION & DEVEL DISAB
SPONSOR:
INSTITUTES OF APPLIED HUMAN DYNA
32 WARREN AVENUE
TARRYTOWN

TYPE: INDIV RESIDENTIAL ALTERNATIVE (IRA)

SERVICES: RESID./HABILIT. SERV.

TEL. (914)220-4333 SPONSORSHIP:

17 SHAW HIGHWAY IRA
17 SHAW HIGHWAY
PEEKSKILL 10566

FACILITY ID: 00011426
CAPACITY: 0010 SCHOOL DISTRICT CODE - 661500

01 GROUP SERVED: AGE: 18-61 SEX: M/F
PERSONS SERVED: MENTALLY RETARDED/DV

LICENSING AGENCY: OFF OF MENTAL RETARDATION & DEVEL DISAB
SPONSOR:
WESTCHESTER COUNTY CHAPTER, NYS ARC, INC.
121 WESTMORELAND AVENUE
WHITE PLAINS

TYPE: INDIV RESIDENTIAL ALTERNATIVE (IRA)

SERVICES: RESID./HABILIT. SERV.

TEL. (914)428-8330 SPONSORSHIP: NOT-FOR-PROFIT

3 PEMART AVE IRA
3 PEMART AVE
PEERSKILL 10566

FACILITY ID: 00015791
CAPACITY: 0006 SCHOOL DISTRICT CODE -

01 GROUP SERVED: AGE: 00-99 SEX: M/F
PERSONS SERVED: MENTALLY RETARDED/DV

LICENSING AGENCY: OFF OF MENTAL RETARDATION & DEVEL DISAB
SPONSOR:
WESTCHESTER COUNTY CHAPTER, NYS
121 WESTMORELAND AVENUE
WHITE PLAINS

TYPE: INDIV RESIDENTIAL ALTERNATIVE (IRA)

SERVICES: RESID./HABILIT. SERV.

TEL. (914)428-8330 SPONSORSHIP:

COUNTY: WESTCHESTER MUNICIPALITY: POUND RIDGE TOWN OF

HEALTH SERVICE AREA: 7

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4 LOWER SHAD ROAD IRA
4 LOWER SHAD ROAD
POUND RIDGE 10576

FACILITY ID: 00017737
CAPACITY: 0006 SCHOOL DISTRICT CODE -

01

GROUP SERVED: AGE: 00-99 SEX: M/F
PERSONS SERVED: MENTALLY RETARDED/DV

LICENSING AGENCY: OFF OF MENTAL RETARDATION & DEVEL DISAB
SPONSOR:
COMMUNITY BASED SERVICES, INC.
3 FIELDS LANE
NORTH SALEM

TYPE: INDIV RESIDENTIAL ALTERNATIVE (IRA)

SERVICES: RESID./HABILIT. SERV.

TEL. (914)277-4771 SPONSORSHIP:

LYNDEL RD CR-IRA
3 LYNDEL RD
POUND RIDGE 10576

FACILITY ID: 00013564
CAPACITY: 0006 SCHOOL DISTRICT CODE - 660102

GROUP SERVED: AGE: 00-99 SEX: M/F
PERSONS SERVED: MENTALLY RETARDED/DV

LICENSING AGENCY: OFF OF MENTAL RETARDATION & DEVEL DISAB
SPONSOR:
COMMUNITY LIVING CORP
600 BEDFORD RD
MT. KISCO NY 10549

TYPE: INDIV RESIDENTIAL ALTERNATIVE (IRA)

SERVICES: RESID./HABILIT. SERV.
ADL
COUNSELING

TEL. SPONSORSHIP: NOT-FOR-PROFIT

POUND RIDGE HOUSE ICF
40 TRINITY PASS RD RR #3
POUND RIDGE 10576

FACILITY ID: 00010752
CAPACITY: 0006 SCHOOL DISTRICT CODE - 660102

GROUP SERVED: AGE: 18-99 SEX: M/F
PERSONS SERVED: MENTALLY RETARDED/DV

LICENSING AGENCY: OFF OF MENTAL RETARDATION & DEVEL DISAB
SPONSOR:
WESTCHESTER COUNTY CHAPTER NYSARC
74 WESTMORELAND AVENUE
WHITE PLAINS NY 10606

TYPE: COMMUNITY-BASED ICF/DD

SERVICES: RESID./HABILIT. SERV. COUNSELING
MEDICAL
ADL

TEL. SPONSORSHIP: NOT-FOR-PROFIT

COUNTY: WESTCHESTER MUNICIPALITY: RYE BROOK TOWN OF

HEALTH SERVICE AREA: 7

RYE BROOK ICF
544 WESTCHESTER AVENUE
RYE BROOK 10573

FACILITY ID: 00011729
CAPACITY: 0008 SCHOOL DISTRICT CODE - 661800

GROUP SERVED: AGE: 00-99 SEX: M/F
PERSONS SERVED: MENTALLY RETARDED/DV

LICENSING AGENCY: OFF OF MENTAL RETARDATION & DEVEL DISAB
SPONSOR:
WESTCHESTER COUNTY CHAPTER NYS ARC, INC.
74 WESTMORELAND AVENUE
WHITE PLAINS NEW YORK

TYPE: COMMUNITY-BASED ICF/DD

SERVICES: RESID./HABILIT. SERV. COUNSELING
MEDICAL
ADL

TEL. 914 428 8330 SPONSORSHIP: PUBLIC

MIRIAM OSBORN MEMORIAL HOME ASSOCIATION
 501 THEODORE FREMD AVENUE FACILITY ID: 5954800P GROUP SERVED: AGE: 16-99 SEX: M/F
 RYE 10580 CAPACITY: 0109 SCHOOL DISTRICT CODE - 661800 PERSONS SERVED: HEALTH SERVICES REQ.

LICENSING AGENCY: NEW YORK STATE DEPARTMENT OF HEALTH TYPE: HEALTH RELATED FACILITY
 SPONSOR: MIRIAM OSBORN MEMORIAL HOME ASSOCIATION SERVICES: RESID. PERS. SERV. ACTIVITIES PROGRAM
 TEL. SPONSORSHIP: PUBLIC

RYE PSYCHIATRIC HOSPITAL CENTER C
 754 BOSTON POST ROAD FACILITY ID: 00007187 GROUP SERVED: AGE: 13-99 SEX: M/F
 RYE 10580 CAPACITY: 0041 SCHOOL DISTRICT CODE - 661800 PERSONS SERVED: MENTALLY DISABLED

LICENSING AGENCY: OFFICE OF MENTAL HEALTH TYPE: PSYCHIATRIC HOSPITAL
 SPONSOR: RYE PSYCHIATRIC HOSPITAL CTR INC SERVICES: INPATIENT/TREATMENT
 754 BOSTON POST ROAD
 RYE NY 10580 TEL. 914-967-4567 SPONSORSHIP: PROPRIETARY

THE OSBORN C
 101 THEALL ROAD FACILITY ID: 5954300N GROUP SERVED: AGE: 65-99 SEX: F
 RYE 10580 CAPACITY: 0084 SCHOOL DISTRICT CODE - 661800 PERSONS SERVED: NURSING CARE REQUIRE

LICENSING AGENCY: NEW YORK STATE DEPARTMENT OF HEALTH TYPE: NURSING HOME
 SPONSOR: MIRIAM OSBORN MEMORIAL HOME SERVICES: SKILLED NURSING CARE ACTIVITIES PROGRAM
 501 THEODORE FREMD AVENUE
 RYE NY 10580 TEL. (914) 967-4100 SPONSORSHIP: NOT-FOR-PROFIT

260 LINCOLN AVENUE ICF 01 GROUP SERVED: AGE: 18-61 SEX: M/F
 260 LINCOLN AVENUE FACILITY ID: 00017260 PERSONS SERVED: MENTALLY RETARDED/DV
 RYE BROOK 10573 CAPACITY: 0012 SCHOOL DISTRICT CODE -

LICENSING AGENCY: OFF OF MENTAL RETARDATION & DEVEL DISAB TYPE: INSTITUTION
 SPONSOR: CEREBRAL PALSY OF WESTCHESTER, IN SERVICES: RESID./HABILIT. SERV.
 1186 KING STREET
 RYE BROOK TEL. (914)937-3800 SPONSORSHIP:

COUNTY: WESTCHESTER MUNICIPALITY: RYE TOWN OF

HEALTH SERVICE AREA: 7

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261 KING STREET IRA
261 KING STREET
PORTCHESTER

10573

FACILITY ID: 00010222
CAPACITY: 0007

SCHOOL DISTRICT CODE - 661800

01

GROUP SERVED: AGE: 18-61 SEX: M/F
PERSONS SERVED: MENTALLY RETARDED/DV

LICENSING AGENCY: OFF OF MENTAL RETARDATION & DEVEL DISAB

TYPE: INDIV RESIDENTIAL ALTERNATIVE (IRA)

SPONSOR:

YOUNG ADULT INSTITUTE AND WORK- SHDP, INC.

SERVICES: RESID./HABILIT. SERV.

460 WEST 34TH STREET
NEW YORK

TEL. (212)563-7474

SPONSORSHIP: NOT-FOR-PROFIT

COUNTY: WESTCHESTER MUNICIPALITY: RYEBROOK

HEALTH SERVICE AREA: 7

62 WOODLAND AVENUE IRA
62 WOODLAND AVENUE
RYEBROOK

10580

FACILITY ID: 00012789
CAPACITY: 0008

SCHOOL DISTRICT CODE - 661904

01

GROUP SERVED: AGE: 18-61 SEX: M/F
PERSONS SERVED: MENTALLY RETARDED/DV

LICENSING AGENCY: OFF OF MENTAL RETARDATION & DEVEL DISAB

TYPE: INDIV RESIDENTIAL ALTERNATIVE (IRA)

SPONSOR:

YOUNG ADULT INSTITUTE AND WORKSHOP, INC

SERVICES: RESID./HABILIT. SERV.

460 WEST 34TH STREET
NEW YORK

TEL. (212)563-7474

SPONSORSHIP: NOT-FOR-PROFIT

COUNTY: WESTCHESTER MUNICIPALITY: SCARSDALE TOWN OF

HEALTH SERVICE AREA: 7

SCARSDALE HOUSE
1241 POST ROAD
SCARSDALE

10583

FACILITY ID: 00011099
CAPACITY: 0009

SCHOOL DISTRICT CODE - 662001

GROUP SERVED: AGE: 18-99 SEX: M/F

PERSONS SERVED: MENTALLY DISABLED

LICENSING AGENCY: OFFICE OF MENTAL HEALTH

TYPE: COMM RESIDENCE/SUPERVISED LIVING

SPONSOR:

66 FULTON ST WHITE PLAINS NY 10606

SERVICES: RESIDENTIAL/ADL

1004 PARK AVENUE
PEEKSKILL NY 10566

TEL. (914) 736-9343

SPONSORSHIP: NOT-FOR-PROFIT

FUTURA HOUSE/THE EDMONT HOUSE
371 OLD ARMY ROAD FACILITY ID: 00012487 GROUP SERVED: AGE: 18-99 SEX: M/F
SCARSDALE 10583 CAPACITY: 0010 SCHOOL DISTRICT CODE - 662001 PERSONS SERVED: MENTALLY DISABLED

LICENSING AGENCY: OFFICE OF MENTAL HEALTH TYPE: COMM RESIDENCE/SUPERVISED LIVING
SPONSOR: FUTURA HOUSE FOUNDATION INC SERVICES: RESIDENTIAL/ADL
222 MAMARONECK AVE
WHITE PLAINS NY 10603 TEL. SPONSORSHIP: NOT-FOR-PROFIT

SCARSDALE RESIDENCE
1 FOXHALL ROAD FACILITY ID: 00010104 GROUP SERVED: AGE: 18-99 SEX: M/F
SCARSDALE 10583 CAPACITY: 0008 SCHOOL DISTRICT CODE - 662001 PERSONS SERVED: MENTALLY RETARDED/DV

LICENSING AGENCY: OFF OF MENTAL RETARDATION & DEVEL DISAB TYPE: COMMUNITY-BASED ICF/DD
SPONSOR: WESTCHESTER COUNTY ARC SERVICES: RESID./HABILIT. SERV.
74 WESTMORELAND AVENUE ADL
WHITE PLAINS NY 10606 TEL. (914) 428-8330 SPONSORSHIP: NOT-FOR-PROFIT COUNSELING

SPRAIN BROOK MANOR NURSING HOME
77 JACKSON AVENUE FACILITY ID: 5910300N GROUP SERVED: AGE: 16-99 SEX: M/F
SCARSDALE 10583 CAPACITY: 0121 SCHOOL DISTRICT CODE - 662001 PERSONS SERVED: NURSING CARE REQUIRE

LICENSING AGENCY: NEW YORK STATE DEPARTMENT OF HEALTH TYPE: NURSING HOME
SPONSOR: H BOOK ET AL SERVICES: SKILLED NURSING CARE
HOLMES NY 12531 TEL. (914) 472-3200 SPONSORSHIP: PROPRIETARY ACTIVITIES PROGRAM

738 EAST MAIN STREET IRA 01 GROUP SERVED: AGE: 18-61 SEX: M/F
738 EAST MAIN STREET FACILITY ID: 00017859 PERSONS SERVED: MENTALLY RETARDED/DV
SHRUB OAK 10588 CAPACITY: 0006 SCHOOL DISTRICT CODE -

LICENSING AGENCY: OFF OF MENTAL RETARDATION & DEVEL DISAB TYPE: INDIV RESIDENTIAL ALTERNATIVE (IRA)
SPONSOR: RICHMOND CHILDREN'S CENTER SERVICES: RESID./HABILIT. SERV.
272 NORTH BEDFORD ROAD
MT. KISCO TEL. (914)471-4105 SPONSORSHIP:

3793 MARCY STREET IRA O1 GROUP SERVED: AGE: 00-99 SEX: M/F
 3793 MARCY STREET FACILITY ID: 00017487 PERSONS SERVED: MENTALLY RETARDED/DV
 MOHEGAN LAKE 10547 CAPACITY: 0006 SCHOOL DISTRICT CODE -
 LICENSING AGENCY: OFF OF MENTAL RETARDATION & DEVEL DISAB TYPE: INDIV RESIDENTIAL ALTERNATIVE (IRA)
 SPONSOR: OPENGATE, INC. SERVICES: RESID./HABILIT. SERV.
 28 WARREN STREET
 SOMERS TEL. (914)277-5350 SPONSORSHIP:

NEW YORK UNITED HOSPITAL MEDICALCENTER GROUP SERVED: AGE: 16-99 SEX: M/F
 406 BOSTON POST ROAD FACILITY ID: 5906000N PERSONS SERVED: NURSING CARE REQUIRE
 PORT CHESTER 10573 CAPACITY: 0040 SCHOOL DISTRICT CODE - 661904
 LICENSING AGENCY: NEW YORK STATE DEPARTMENT OF HEALTH TYPE: NURSING HOME
 SPONSOR: NEW YORK UNITED HOSPITAL MEDICAL CENTER SERVICES: SKILLED NURSING CARE
 406 BOSTON POST ROAD ACTIVITIES PROGRAM
 PORT CHESTER NY 10573 TEL. (914) 939-7000 SPONSORSHIP: NOT-FOR-PROFIT

UNITED HOSP PSYCHIATRIC IP UNIT C GROUP SERVED: AGE: 00-99 SEX: M/F
 406 BOSTON POST ROAD FACILITY ID: 00011996 PERSONS SERVED: MENTALLY DISABLED
 PORT CHESTER 10573 CAPACITY: 0028 SCHOOL DISTRICT CODE - 661904
 LICENSING AGENCY: OFFICE OF MENTAL HEALTH TYPE: PSYCHIATRIC HOSPITAL
 SPONSOR: NEW YORK UNITED HOSPITAL MEDICAL CENTER SERVICES: INPATIENT/TREATMENT
 406 BOSTON POST RD
 PORT CHESTER NY 10563 TEL. (914) 939-7000 SPONSORSHIP:

HIGH POINT HOSPITAL C GROUP SERVED: AGE: 11-99 SEX: M/F
 UPPER KING STREET FACILITY ID: 00007186 PERSONS SERVED: MENTALLY DISABLED
 PORT CHESTER 10573 CAPACITY: 0045 SCHOOL DISTRICT CODE - 661904
 LICENSING AGENCY: OFFICE OF MENTAL HEALTH TYPE: PSYCHIATRIC HOSPITAL
 SPONSOR: HIGH POINT HOSPITAL SERVICES: INPATIENT/TREATMENT
 UPPER KING STREET
 PORT CHESTER NY 10573 TEL. 914-939-4420 SPONSORSHIP: PROPRIETARY

KING STREET HOME INC C GROUP SERVED: AGE: 18-99 SEX: M/F
 787 KING STREET FACILITY ID: 5906300N PERSONS SERVED: NURSING CARE REQUIRE
 PORT CHESTER 10573 CAPACITY: 0120 SCHOOL DISTRICT CODE - 661904 HEALTH SERVICES REQ.
 LICENSING AGENCY: NEW YORK STATE DEPARTMENT OF HEALTH TYPE: COMB NURSING HOME & HEALTH RELATED
 SPONSOR: KING STREET HOME INC SERVICES: RESID. PERS. SERV.
 787 KING STREET SKILLED NURSING CARE
 PORT CHESTER NY 10573 TEL. (914) 937-5800 SPONSORSHIP: PROPRIETARY ACTIVITIES PROGRAM

KING STREET HOUSE C
562 KING STREET FACILITY ID: 00010386 GROUP SERVED: AGE: 18-99 SEX: M/F
PORT CHESTER 10573 CAPACITY: 0008 SCHOOL DISTRICT CODE - 661904 PERSONS SERVED: MENTALLY RETARDED/DV

LICENSING AGENCY: OFF OF MENTAL RETARDATION & DEVEL DISAB TYPE: COMMUNITY-BASED ICF/DD
SPONSOR:
LETCWORTH DDSO SERVICES: RESID./HABILIT. SERV. COUNSELING
PO BOX 470-HUMAN RESOURCES MEDICAL
THIELLS NY 10984 TEL. (914) 631-8188 SPONSORSHIP: PUBLIC ADL

PORT CHESTER NURSING HOME C
1000 HIGH STREET FACILITY ID: 5906302N GROUP SERVED: AGE: 16-99 SEX: M/F
PORT CHESTER 10573 CAPACITY: 0160 SCHOOL DISTRICT CODE - 661904 PERSONS SERVED: NURSING CARE REQUIRE

LICENSING AGENCY: NEW YORK STATE DEPARTMENT OF HEALTH TYPE: NURSING HOME
SPONSOR:
NATIONAL COUNCIL OF YOUNG ISRAEL SERVICES: SKILLED NURSING CARE
3 WEST 16TH STREET ACTIVITIES PROGRAM
NEW YORK NY 10011 TEL. (212) 929-1525 SPONSORSHIP: NOT-FOR-PROFIT

HUMAN DEVELOPMENT HOUSE C
381 IRVING AVENUE FACILITY ID: 00011886 GROUP SERVED: AGE: 18-99 SEX: M/F
PORT CHESTER 10573 CAPACITY: 0014 SCHOOL DISTRICT CODE - 661904 PERSONS SERVED: MENTALLY DISABLED

LICENSING AGENCY: OFFICE OF MENTAL HEALTH TYPE: COMM RESIDENCE/SUPERVISED LIVING
SPONSOR:
HUMAN DEVELOPMENT SERVICES OF PORT CHESTER, INC. SERVICES: RESIDENTIAL/ADL
PO BOX 110
PORT CHESTER NY 10573 TEL. 914 939 2005 SPONSORSHIP: NOT-FOR-PROFIT

UNITED HOSPITAL SUBSTANCE ABUSE UNIT
406 BOSTON POST ROAD FACILITY ID: 00011089 GROUP SERVED: AGE: 16-99 SEX: M/F
PORT CHESTER 10573 CAPACITY: 0012 SCHOOL DISTRICT CODE - 661904 PERSONS SERVED: ALCOHOLISM

LICENSING AGENCY: OFFICE OF ALCOHOL AND SUBSTANCE ABUSE TYPE: ALCOHOLISM FACILITY
SPONSOR:
NEW YORK UNITED HOSPITAL MEDICAL CENTER SERVICES: RESID. TREATM./REHAB.
406 BOSTON POST ROAD
PORTCHESTER NY 10573 TEL. (914) 235-6633 SPONSORSHIP: NOT-FOR-PROFIT

PUBLIC COMMENTS

DISCUSSION



VILLAGE OF
PORT CHESTER

222 Grace Church Street, Port Chester, New York 10573

AGENDA MEMO

Planning and Development Department

Village BOT Meeting Date: 4/13/2015

Item Type: Discussion Item

Description	Yes	No	Description	Yes	No
Fiscal Impact		X	Public Hearing Required		X
Funding Source:			BID #		
Account #:			Strategic Plan Priority Area		
			Revitalizing Waterfront		
Agreement	X		Manager Priorities		
Strategic Plan Related	X		Planning & Zoning		

Sponsor's Name: Christopher D. Steers, Village Manager
 Christopher Ameigh, Asst. to the Village Manager
 Jessica Youngblood, Planner

Agenda Heading Title
(Will appear as indicated below on Agenda)
 BULKHEAD RFP

Summary

Background:

The Village of Port Chester received a grant from the New York State Department of State (NYS DOS) for up to \$225,420 for the final design, construction documentation and applicable permits for the rehabilitation of the collapsed bulkhead and construction of an ‘activity node’ as part of the 2013 Consolidated Funding Application process coordinated by the Mid-Hudson Regional Economic Development Council. Per the executed contract, the Village posted the RFP February 2015 and closed the response window on March 16, 2015. The Village received four (4) qualified responses: COWI Group/Ocean and Coastal Consultants Engineering, LLC; McLaren Engineering Group; Boswell Engineering; and Langan Engineering.

At this time, Village Staff have thoroughly reviewed each response and provided a summary matrix for each response for RFP and NYSDOS contract compliance. Also provided is a memo from the Village Engineer, Dolph Rotfeld doing the same.

Overview of Responses:

- Each firm complies with the requirements of the RFP/NYSDOS contract. Further, some of the submissions provide better understanding and therefore a more thorough response to the enumerated task list per NYSDOS contract (COWI/OCC, Langan, and McLaren).
- Three firms can provide additional out-of-scope services for an additional cost, including construction management and inspection (COWI/OCC, Langan, and McLaren).
- The estimated timeframe for completion ranges from 4.5 months (Boswell) to 13 months (Langan, McLaren)
- The pre-scope/contract fee schedule include:
 - \$193,032 – COWI/OCC
 - \$228,289 – Boswell
 - \$275,754 – McLaren
 - \$398,000 – Langan
- All firms submitted relevant and local project experience documentation

Recommendation

Presently, Staff recommends interviewing all four firms; however, Staff can narrow it down to two firms if the Board prefers. Staff anticipates conducting interviews within the next month.

Proposed Action

Request comments and authorize Staff to schedule firm interviews.

Attachments

- | |
|---|
| <ul style="list-style-type: none">• RFP for Bulkhead Rehabilitation and Activity Node Creation• Summary Matrix• Summary Memo: Dolph Rotfeld, Village Engineer |
|---|

**REQUEST FOR PROPOSAL (RFP)
FULL DESIGN AND CONSTRUCTION PLANS FOR THE REPAIR OF THE COLLAPSED
BULKHEAD SECTION ALONG BYRAM RIVER and CONSTRUCTION OF “ACTIVITY NODE”
PLUS APPLICABLE PERMIT WORK.**

THE VILLAGE OF PORT CHESTER, NEW YORK

REQUEST FOR PROPOSAL (RFP)

**FULL DESIGN AND CONSTRUCTION PLANS FOR THE REPAIR OF THE COLLAPSED
BULKHEAD SECTION ALONG BYRAM RIVER and CONSTRUCTION OF “ACTIVITY
NODE” PLUS APPLICABLE PERMIT WORK**

**THE VILLAGE OF PORT CHESTER, NEW YORK
FEBRUARY 18, 2015**

OVERVIEW

The Village of Port Chester is presently soliciting proposals from qualified consultants to develop design and construction documents for a collapsed bulkhead along the Byram River waterfront and a supported platform (the “Activity Node”) to promote public waterfront access and education.

Applicant must submit proposals by March 16, 2015, 4PM, after which time and date no proposals will be accepted.

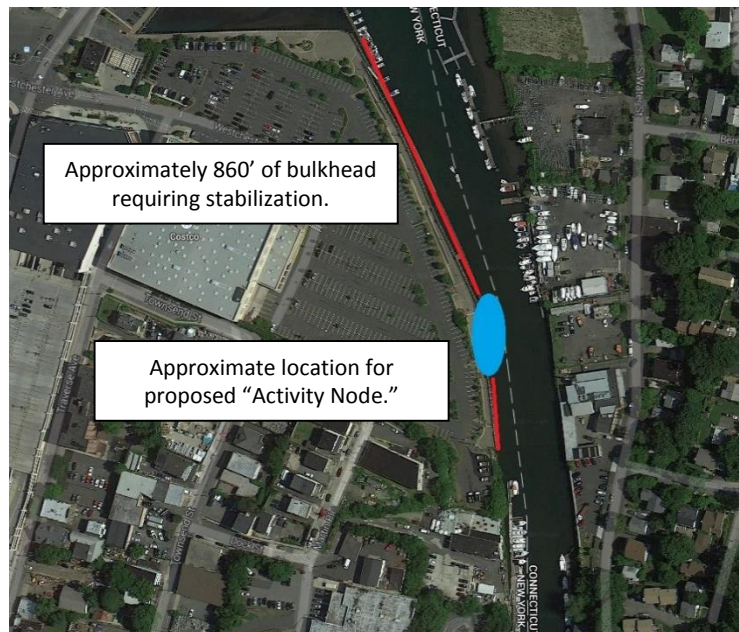


Figure 1 Location Map, Bulkhead and Activity Node

PROJECT BACKGROUND

The Village of Port Chester bulkhead along the Byram River requires replacement for the breached section located at the southern terminus of its extent (see Location Map above). In order to facilitate repair, the Village of Port Chester received a grant of up to \$225,420 through the New York State Department (DOS) of State’s Local Waterfront Revitalization Program (LWRP) for final design and construction documents plus all applicable permits to repair the breached bulkhead and create an activity node in its place.

**REQUEST FOR PROPOSAL (RFP)
FULL DESIGN AND CONSTRUCTION PLANS FOR THE REPAIR OF THE COLLAPSED
BULKHEAD SECTION ALONG BYRAM RIVER and CONSTRUCTION OF “ACTIVITY NODE”
PLUS APPLICABLE PERMIT WORK.**

THE VILLAGE OF PORT CHESTER, NEW YORK

SCOPE OF WORK

The scope of work consists of the design phase for the stabilization of approximately 860 feet of the existing shoreline for bulkhead replacement and construction of an “Activity Node” in the area of the collapsed bulkhead. The tasks for the scope of work correspond to the ‘Work Plan,’ “Attachment C,” as contained within the issued and executed contract with the New York State Department of State to the Village of Port Chester (see “Attachment C” for full details relating to scope items #6-13 to be completed by the selected Consultant).

The selected Consultant must comply with all terms and conditions of the Village’s contract with the NYS Department of State (NYSDOS) for this work. The following tasks summarized below must be completed by the selected Consultant:

- Task 6, Kick Off Meeting
- Task 7, Site Reconnaissance and Schematic Designs
- Task 8, Public Meeting
- Task 9, Construction Requirement Analysis
- Task 10, Environmental Quality Review
- Task 11, Draft Final Design
- Task 12, Final Design and Construction Documents
- Task 13, Permitting

Note: See “Attachment C” for full details relating to each Scope Item to be completed by the selected Consultant.

The scope of work will include conducting site-specific reconnaissance, including investigations and inspections and preparing a condition survey report, a hydrographic survey and the schematic design of three (3) possible design solutions with objective assessments. The preparation of three schematic designs will put the Village in a position to make an informed decision regarding construction alternatives to repair the collapsed bulkhead. The selected schematic design will serve as the basis for the final design and engineering/construction plans and specifications. The products of this study include final design and construction documents with detailed cost estimates.

For preparation of the RFP documents, the respondent shall become familiar with the current condition of the bulkhead. The proposer shall include a detailed explanation of its understanding of the problem and of the work that needs to be done during the information gathering, in order to prepare the proposed design and construction documents.

**REQUEST FOR PROPOSAL (RFP)
FULL DESIGN AND CONSTRUCTION PLANS FOR THE REPAIR OF THE COLLAPSED
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THE VILLAGE OF PORT CHESTER, NEW YORK

The expected outcome will include an understanding of the expectations associated with the bulkhead repair and proposal for increased public recreational use, the environmental issues, if any, and necessary mitigation and the site conditions that will impact the rehabilitation. The goal is also to open new access for enjoyment of the Byram River to residents and visitors.

The response to the RFP for professional engineering services is required to contain the following information and not to exceed thirty (30) pages.

The following qualifications and experience of the proposing firm will be required:

- The firm must have a minimum of ten years of experience in the design and construction supervision of bulkheads. The lead design person shall be currently registered and licensed as a Professional Engineer by the State of New York and have the same experience as the firm preparing the response to this RFP.
- The firm must have an in-house geotechnical engineering expertise under direction of a New York State licensed Professional Engineer.
- The firm must have an in-house New York State Licensed Professional Engineer that will provide resident engineering inspection services during construction.
- It would be preferable for the firm to have an in-house dive team with five (5) years’ experience and at least one diver being a licensed NYS Professional Engineer.
- A list of recent and relevant experience in similar-type services and projects including information such as project cost, size, location, owner, etc. Also provide reference information for the above including a project contact name, telephone number and address.
- Resumes of key individuals that will be assigned to the project.
- The firm must submit to the Village a Certificate from the NYS Education Department authorizing it to provide Professional Engineering Services; insurance policies for Professional Liability (Errors & Omission) and General Liability for \$5,000,000 each; and Workmen's Compensation, NYS Unemployment and NYS Disability shall be carried by the proposer.

Selection Criteria

The selection of the consultant shall be based on both the proposal and interview. The proposal is weighed 70 percent and the interview 30 percent.

PROPOSAL EVALUATION CRITERIA (70 PERCENT OF TOTAL SCORE)

Specialized Experience of Firm (25 percent)

This includes specialized experience directly relating to this project, demonstrated ability to complete the work within the required schedule, quality control/assurances programs, and the depth of in-house support.

Project Personnel (50 percent)

This includes the role, commitment and qualifications (including possession of applicable licenses and certifications) of key personnel in the areas assigned.

This 50% is divided as follows:

Principal	5 percent
Project Manager	30 percent
Project Engineer	15 percent

It is preferred that the Principal-in-Charge, Project Manager and Project Engineer possess appropriate specialty certifications.

Approach to the Work (25 percent)

This includes the approach to the project scope outlined in the RFP, the understanding of the project scope and schedule of work and the interfacing tasks.

INTERVIEW EVALUATION CRITERIA (30 PERCENT OF TOTAL SCORE)

Presentation (30 percent)

- Style
- Content
- Ability to meet time constraints
- Effectiveness
- Communication/presentation skills

Questions and Answers (40 percent): Questions will be both technical and managerial in nature.

- Technical experience
- Managerial experience
- Creativity
- Communication skills

Project Team (30 percent)

- Principal-in-Charge
- Project Manager
- Project Engineer

After Village approval of the submitted response materials for overall understanding of project, including cost estimates (i.e. proposal evaluation) and upon completion of the interview process, the Village will select a consultant to conduct the scope of work described within this RFP.

FEE SCHEDULE

The fee shall be in two parts; one for the design and bid documents, and a second for construction administration and inspection. The fee could be either in LUMP SUM; DIRECT SALARY OVERHEAD and FIXED FEE, with a NOT-TO-EXCEED AMOUNT, or HOURLY RATES with a NOT-TO-EXCEED AMOUNT. The fee method and amount shall be placed in a separate sealed envelope. A contract and fee shall be negotiated with the first chosen responder. If not successful the Village will negotiate with the second choice responder.

The selected consultant shall provide a timeline for completeness of tasks as part of the RFP submission. Bid documents shall be ready for contractors within an agreed upon timeframe between the Village of Port Chester and the selected consultant after acceptance of completed design, not to exceed a timeframe of six (6) weeks.

The Village reserves the right and at its sole discretion to exercise, the following rights and options with respect to this Request for Proposals:

1. To reject any and all proposals;
2. To issue additional solicitations for proposals and/or amendments to this Request for Proposals;
3. To waive any irregularities in proposals received after notification to proposers affected;
4. To select any proposal as the basis for negotiations of a contract, including fees, and to negotiate with proposers for amendments or other modifications to their proposals;
5. To conduct investigations with respect to the qualifications of each proposer;
6. To exercise at its discretion and apply its judgment with respect to any aspect of this Request for Proposals, the evaluation of proposals and the negotiation and award of any contract;
7. To select the proposal that best satisfies the interests of the Village and not necessarily on the basis of price or any other single factor.
8. The Village of Port Chester will not be liable for any costs incurred by any respondent in the preparation, submittal, presentation or revision of its submission; the Village will not be obligated to pay and will not pay any costs in connection with the preparation of such submissions. All

submissions shall become the property of The Village of Port Chester and will not be returned.

PROPOSAL SUBMISSION

All proposals should include a statement by the proposer concerning professional liability for negligent acts, errors and omissions and any other insurance coverage that would protect the Village of Port Chester from loss or harm should the proposal be accepted. A duly authorized official of the proposer should sign the proposal. Respondents are required to submit one (1) original and ten (10) copies of their proposal. Proposals and attachments must be received no later than 4:00 pm on March 16, 2015 and should be addressed as follows:

Christopher Steers, Village Manager
re: Bulkhead RFP Submission
Village of Port Chester – Village Hall
222 Grace Church Street
Port Chester, New York 10573

All inquiries should be addressed via email to Mary Ann Veltri, mveltri@portchesterny.com and received no later than March 2, 2015 at 4:00pm EST.

Submission shall include the following:

1. The consultant's understanding of the project, and a description of your approach to the Scope of Work.
2. Documentation on the firm and sub-consultants (if any), including qualifications to prepare scope of work.
3. Samples of work demonstrating the ability to complete the type of work as required in the Scope of Work, particularly samples of those managed by the project manager assigned to this project. The Village is interested in design and construction documents, permits and cost estimates that the consultant has prepared for waterfront infrastructure projects that have been constructed. Provide name, phone number and email address of client contact for the sample projects.
4. Demonstration of the Consultant's (or sub-consultant's) estimating accuracy by providing project cost estimate, low bid, and final construction cost for at least six projects that have been constructed.
5. A description of each staff member and sub-consultant who will be involved with this project and a description of their role in the project. This description should identify the person who will be designated as the day-to-day Project Manager.
6. A schedule detailing when each task will be completed, with a cost for each task.
7. Budget and expense information that details all costs, including:

- i. personnel expenses which state the name and title of each individual assigned to the project
 - ii. their hourly rate and the number of estimated hours the individual will be working on the project.
 - iii. The same information shall be submitted in detail for sub-consultants, if any.
8. MWBE Requirements: Pursuant to NYS Executive Law Article 15-A and 5 NYCRR Parts 142-144, for the purposes of this procurement, the NYS Department of State establishes an overall goal of 20% for Minority and Women-Owned Business Enterprises (MWBE) participation, 10% for Minority Owned Business Enterprises ("MBE") participation and 10% for Women-Owned Business Enterprises ("WBE") participation. For the purposes of meeting these participation goals, please identify whether the M/WBE will be the consultant, sub-consultant, or if a waiver will be requested.

The Village of Port Chester is an equal opportunity employer. Any consultants and/or sub-consultants qualified and certified as Minority/Women Business Enterprises are encouraged to submit proposals. The awarded consultant and/or sub-consultants shall make a good faith effort to ensure that W/MBE are given the maximum opportunity to compete for any sub-contracts.

- 9. Indicate any additional assistance expected from the Village.

SCOPE OF WORK (must be submitted with Proposal):

TASK	PROPOSED COST
Task 6, Kick Off Meeting	\$
Task 7, Site Reconnaissance and Schematic Designs	\$
Task 8, Public Meeting	\$
Task 9, Construction Requirement Analysis	\$
Task 10, Environmental Quality Review	\$
Task 11, Draft Final Design	\$
Task 12, Final Design and Construction Documents	\$
Task 13, Permitting	\$
Total Cost	

Note: There will be no allowance for reimbursable expenses. All costs, including copying, mailings, and travel should be included in the tasks above.

ATTACHMENT C - WORK PLAN

Contractor: Village of Port Chester
Contract Number: C1000444
Program Contact Person: Christopher Gomez
Phone: 914-937-6780
Fax: 914-939-2733
Email: cgomez@portchesterny.com

Byram River Bulkhead Design

1. Project Description

The Village of Port Chester will develop design and construction drawings for a collapsed bulkhead along the Byram River waterfront. The completion of the final design will facilitate the replacement of the failed bulkhead, which is pivotal to the resurgence of the waterfront.

The completion of this project will serve as the initial step to reactivate the Byram River waterfront by reopening the public walkway and promenade, catalyzing increased foot traffic in the area, and benefitting local business owners. This project is a key component to economic development and advances the Village's Local Waterfront Revitalization Program and Comprehensive Plan.

2. Project Attribution and Number of Copies

The Contractor must ensure that all materials printed, constructed, and/or produced acknowledge the contributions of the Department to the project. The materials must include the Department of State logo and the following acknowledgment:

"This (document, report, map, etc.) was prepared for the New York State Department of State with funds provided under Title 11 of the Environmental Protection Fund Act."

The Contractor must submit to the Department all required products, clearly labeled with the NYS Comptroller's Contract # as indicated on the Face Page of this contract and where applicable, the related Task # from this Work Plan. The Contractor shall submit:

- Draft products: two paper copies of each product. In addition, all draft products must be submitted as an electronic copy in Word or Word Perfect and Adobe Acrobat Portable Document Format –PDF (created using 300 dpi scanning resolution).
- Final products: two paper copies of each product. In addition, all final products (including reports, designs, maps, drawings, and plans) must be submitted as an electronic copy in Word Perfect or Microsoft Word and Adobe® Acrobat® Portable Document Format - PDF (created using 300 dpi scanning resolution) and be submitted on a labeled CD-R type CD. The CD must be labeled with the contractor name, the Departments contract #, and project title.
- Electronic data for all Geographic Information System-based mapping products must be included in either ArcGIS format, or similar product acceptable to the Department, and comply with the requirements for Contract GIS Products.

ATTACHMENT C - WORK PLAN

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Contract Number: C1000444
Program Contact Person: Christopher Gomez
Phone: 914-937-6780
Fax: 914-939-2733
Email: cgomez@portchesterny.com

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- Electronic data for all Geographic Information System-based mapping products must be included in either ArcGIS format, or similar product acceptable to the Department, and comply with the requirements for Contract GIS Products.

- Electronic data for all designs, drawings, and plans must be submitted in the original software that they were created (such as CAD format or other similar product acceptable to the Department) as well as in JPEG or GIF format.
- Pictures and photographs must be dated and captioned with the location and a brief description of the activity being documented. Electronic data for all pictures and photographs must be submitted in JPG or GIF format or other similar product acceptable to the Department.

The contributions of the Department must also be acknowledged in community press releases and other notices issued for the project, including web site postings and other forms of digital distribution. Project press releases and other notices shall be submitted to the Department for review and approval prior to release, to ensure appropriate attribution.

3. Compliance with Procurement Requirements

The municipal attorney, chief legal officer or financial administrator of the municipality shall certify in writing to the Department that applicable provisions of General Municipal Law were fully complied with.

4. Project Components

Task 1: Project Kick-off Meeting

The Contractor, the Department, project partners and any other appropriate entities shall hold an initial meeting to review the project scope, project requirements, roles and responsibilities of project partners, the selection process for procuring consultants, State Environmental Quality Review Act (SEQRA) compliance requirements, the number of public meetings and techniques for public involvement proposed for the project, and any other information which would assist in project completion. In addition, the composition of a project advisory committee shall be discussed during the project kick-off meeting. The Contractor, or a designated project partner, shall prepare and distribute to all project partners a brief meeting summary clearly indicating the agreements/understandings reached at the meeting. Work on subsequent tasks shall not proceed prior to Department approval of the proposed approach as outlined in the meeting summary.

Products: Project kick-off meeting held with appropriate parties. Written meeting summary outlining agreements/understandings reached.

Task 2: Project Advisory Committee

The Contractor shall establish a project advisory committee to oversee all aspects of the project in cooperation with municipal officials and the project consultant(s), if applicable. The committee shall be representative of project stakeholders, including representatives of State and municipal agencies with jurisdiction over project activities or the project area, and non-governmental and community based organizations. A draft list of proposed members shall be circulated to the Department for review and approval prior to establishment of the committee.

Products: Draft and final list of proposed members of project advisory committee. Project advisory committee established.

Task 3: Request for Proposals

The Contractor shall draft a Request for Proposals (RFP) including a complete project description with site conditions, expected final results, a schedule for completion, and criteria for selecting a preferred proposal.

The Contractor shall submit the RFP to the Department for review and approval prior to release for solicitation of proposals.

Products: Approved RFP released through advertisement in local papers, the New York State Contract Reporter, and other appropriate means.

Task 4: Consultant Selection and Compliance with Procurement Requirements

In consultation with the Department, the Contractor and an appropriate review committee shall review all proposals received as a result of the RFP. At a minimum, the following criteria are suggested for use in evaluating consultant responses:

- Quality and completeness of the response.
- Understanding of the proposed scope of work.
- Applicability of proposed alternatives or enhancements to information requested.
- Cost-effectiveness of the proposal.
- Qualifications and relevant experience with respect to the tasks to be performed.
- Reputation among previous clients.
- Ability to complete all project tasks within the allotted time and budget.

Incomplete proposals that do not address all of the requested components should not be accepted for review and consideration.

For preparation/certification of final designs and construction documents, and for supervision of construction, a licensed professional engineer, architect or landscape architect licensed to practice in New York State is required.

The municipal attorney, chief legal officer or financial administrator of the municipality shall certify in writing to the Department that applicable provisions of General Municipal Law were fully complied with.

The Contractor's procurement record and consultant selection is subject to approval by the Department.

Products: Consultant(s) selected and approved by the Department. Written certification of compliance with procurement procedures.

Task 5: Subcontract Preparation and Execution

The Contractor shall prepare a draft subcontract or subcontracts to conduct project work with the consultant(s) selected. The subcontract(s) shall contain a detailed work plan with adequate opportunity for review at appropriate stages of project completion, a payment schedule (payments should be tied to receipt of products), and a project cost. The subcontract(s) shall specify the composition of the entire consultant team, including firm name and area of responsibility/expertise, and those professionals from the consultant team or consulting firm that will be directly involved in specific project tasks. The Contractor shall submit the draft subcontract(s) to the Department for review and approval, and shall incorporate the Department's comments in the final subcontract(s). A copy of the final, executed subcontract shall be submitted to the Department.

Products: Draft and final, executed consultant subcontracts.

Task 6: Second Project Meeting

In consultation with the Department, the Contractor shall hold a second project meeting with the consultant(s), and other project partners as appropriate, to review project requirements, site conditions, and roles and responsibilities; identify new information needs and next steps; and transfer any information to the consultant(s) which would assist in completion of the project. The consultant(s) shall prepare and distribute a brief meeting summary clearly indicating the agreements/understandings reached at the meeting. Work on subsequent tasks shall not proceed prior to Department approval of the proposed approach as outlined in the meeting summary.

Products: Second project meeting held with appropriate parties. Written meeting summary outlining agreements/understandings reached.

Task 7: Site Reconnaissance and Schematic Designs

A. Site Reconnaissance

The Contractor or its consultant(s) shall conduct site-specific reconnaissance, in preparation for design. Work shall include, at a minimum, identification and mapping of the following:

- Site survey showing extent of project boundary
- Ownership/grant/lease status of all lands to be incorporated into the design
- Manmade structures, buildings, or facilities on or adjacent to the site
- Above and below ground infrastructure, including stormwater treatment structures
- Transportation/circulation systems (truck, car, bus, ferry, train, pedestrian, bicycle, etc.) that serve or are located near the site
- Adjacent land and water uses
- Historic and archeological resources
- Soil and, as appropriate, core sampling to determine site stability
- Topography and hydrology
- Natural resources, including location of mature trees
- View corridors
- Zoning and other applicable designations
- Analysis of site constraints, needs and opportunities

Products: Map(s) and written summary describing the above information and any other appropriate information identified during the project kick-off meeting.

B. Schematic Designs

The Contractor or its consultant(s) shall prepare alternative schematic designs of the facility or facilities, considering and including a summary of the following:

- Best management practices to be employed to avoid or reduce water quality impairments from upland runoff or in-water activities, and
- Impacts, if any, to State designated Significant Coastal Fish and Wildlife Habitat areas, Scenic Areas of Statewide Significance, other Coastal Management Program special management areas, or other sensitive resources, and how those impacts should be avoided or mitigated.

Unless otherwise specified during the project kick-off meeting, the Contractor or its consultant(s) shall prepare a minimum of three alternative schematic designs for review by the project advisory committee and the Department.

In consultation with the Department and the project advisory committee, the Contractor shall select one of the alternative schematic designs as the basis for final design and engineering/construction plans and specifications, or shall work with the consultant(s) to develop a final schematic design incorporating elements of or building upon the alternative schematic designs. Final design and engineering/construction plans and specifications shall be prepared based on the selected schematic design.

Products: Alternative schematic designs. Schematic design alternative selected.

Task 8: Public Meeting

In consultation with the Department, a public information meeting shall be conducted to solicit public input on the schematic designs to assist in selecting a preferred alternative. A written summary of public input obtained at this meeting shall be prepared and provided to the Department for review and comment.

Products: Public information meeting held. Minutes/Summary of meeting prepared and submitted to the Department.

Task 9: Construction Requirement Analysis

The Contractor or its consultant(s) shall prepare an analysis of all federal, state and local requirements for the selected schematic design alternative, including necessary permits and approvals, and a description of how these requirements will be satisfied by the design. This analysis shall be submitted to appropriate project partners and the Department for review. A pre-permitting meeting with the Department and the identified federal, state and local entities may be required to discuss any revisions needed to satisfy regulatory requirements. Work on final design shall not proceed prior to the Department approval of the construction requirement analysis and the pre-permitting meeting, if necessary.

Products: Written construction requirement analysis. Pre-permitting meeting with identified entities.

Task 10: Environmental Quality Review

The Contractor or its consultant(s) shall prepare all documents necessary to comply with the State Environmental Quality Review Act (SEQRA) through determination of significance. If a positive declaration is made, a Draft Environmental Impact Statement shall be prepared.

Products: SEQRA documents and, if necessary, a Draft Environmental Impact Statement.

Task 11: Draft Final Design

The Contractor or its consultant(s) shall prepare a draft final design based on the selected schematic design alternative. The draft final design shall include all required maps, tables, data, written discussions, and other information identified in the contract and subcontract work plans and during the project kick-off meeting. The draft final design shall be provided to the Department and the project advisory committee for review at least two weeks prior to the due date for comments. Department comments must be addressed to the satisfaction of the Department in subsequent revisions of the products and the final design.

Products: Draft final design and supporting materials.

Task 12: Final Design and Construction Documents

The Contractor or its consultant(s) shall prepare the final design and construction drawings, plans, specifications, and cost estimates. The final design and construction documents shall be provided to the Department and the project advisory committee for review at least two weeks prior to the due date for comments. Final design and construction documents are subject to approval by the Department. These documents must be certified by a licensed professional engineer, architect, or landscape architect and the appropriate seal must be affixed to these documents.

Products: Final design and construction documents, certified by a licensed professional engineer, architect or landscape architect.

Task 13: Permits

After the final design and construction documents have been approved by the Department, the Contractor or its consultant(s) shall prepare the necessary permit or other approval applications and obtain the required permits or approvals. A pre-application meeting with the Department and the appropriate federal, state and local regulatory authorities may be required to discuss the necessary permit or other approval applications. Prior to filing, the Contractor or its consultant(s) shall submit all applications to the Department for review and comment.

Potential permitting and approval agencies include but are not limited to:

- federal agencies such as the United States Army Corps of Engineers;
- the Department, pursuant to the consistency provisions of the federal Coastal Zone Management Act;
- other New York State agencies such as the Department of Environmental Conservation; the Office of General Services pursuant to the Public Lands Law, or similar authorization from the Power Authority (in certain areas of the St. Lawrence Seaway) or Canal Authority (in the State Canal System), in order to use or occupy certain State-owned lands or waters overlying those lands; and the Office of Parks, Recreation, and Historic Preservation or the State Historic Preservation Officer; and
- agencies of a county, city, town, village, or special purpose district, including but not limited to: town boards, boards of trustees, or city councils; planning commissions, boards or departments; and/or building or health officials.

Prior to construction the Contractor or its consultant(s) shall also demonstrate that the project is in compliance with 6 NYCRR Part 502, "Floodplain Management Criteria For State Projects" by obtaining a floodplain development permit, if local regulations establish such requirements, or by submitting a signed certification, by an official authorized to enforce local floodplain management regulations, that the project complies with the requirements of the statute.

Copies of all required permits and approvals shall be submitted to the Department upon receipt.

Products: All required permits and approvals received. Written certification of compliance with floodplain management regulations, if applicable.

If project includes construction, continue with the following tasks.

Task 14: MWBE Quarterly Reports

The contractor and its consultants and/or contractors shall submit MWBE Quarterly Reports (every March 31, June 30, September 30, and December 31) on the form provided, including a breakdown of payments issued to state-certified MWBE firms during the quarter.

Products: MWBE reports submitted to DOS during the life of the contract.

Task 15: Project Status Reports

The Contractor or its consultant(s) shall submit project status reports semi-annually (every June 30 and December 31) on the form provided, including a description of the work accomplished, the status of all tasks in this work plan, schedule of completion of remaining tasks, and an explanation of any problems encountered.

Products: Completed project status reports submitted to DOS during the life of the contract.

Task 16: Final Project Summary Report and Measurable Results forms

The Contractor or its consultant(s) shall work with the Department project manager to complete the Final Project Summary Report and Measurable Results forms. Final payment shall not be authorized until these forms have been completed and filed with project deliverables.

Products: Completed Final Project Summary Report and Measurable Results forms submitted to DOS.

5. Project Management Responsibilities

The Contractor shall administer the grant, execute a contract with the Department, and ensure the completion of work in accordance with the approved Work Plan. Unless otherwise specified in the Project Description or under Project Components, the Contractor and/or its approved consultant(s) or subcontractor(s) shall conduct all work as described in the component tasks.

The Contractor:

- will be responsible for conducting all project work in conformance with the Work Plan included in the executed contract with the Department.
- will be responsible for all project activities including drafting request for proposals and managing subcontracts with consultants and sub consultants.
- will certify to the Department that the procurement record for project consultants and subcontractors complies with the applicable provisions of General Municipal Law.
- will receive approval from the Department for any and all consultant subcontracts before beginning project work.
- will be responsible for submission of all products and payment requests.
- will be responsible for coordinating participation and soliciting comments from local government personnel, project volunteers, and the public.
- will keep the Department informed of all important meetings for the duration of this contract.

- will receive approval from the Department before purchase of any equipment.
- will secure all necessary permits and perform all required environmental reviews.
- will ensure that all materials printed, constructed, and/or produced reflect the Department logo, feature the Secretary of State and the Governor, and acknowledge the contributions of the Department to the project.
- will ensure that all products prepared as a part of this contract shall include the NYS Comptroller's contract # as indicated on the Face Page of this contract.
- will ensure the project objectives are being achieved.
- will ensure that comments received from the Department and the project advisory committee, or other advisory group, are satisfactorily responded to and reflected in subsequent work.
- will recognize that payments made to consultants or subcontractors covering work carried out or products produced prior to receiving approval from the Department will not be reimbursed unless and until the Department finds the work or products to be acceptable.

The Department:

- will review and approve or disapprove of subcontracts between the Contractor and consultant(s) and any other subcontractor(s).
- will participate in initial project kick-off meeting and subsequent meetings that are important to the project.
- will review all draft and final products and provide comments as necessary to meet the objectives.
- must approve or disapprove any and all design, site plan, and preconstruction documents before construction may begin.

Dolph Rotfeld Engineering, P.C.

M E M O

TO: CHRIS STEERS, VILLAGE MANAGER

FROM: DOLPH ROTFELD, P.E., BCEE 

SUBJECT: BULKHEAD RFP RESPONSES

DATE: April 2, 2015

As per your request I reviewed the material submitted by four responders. My basic comments are as follows.

BOSWELL ENGINEERING

The timing of the Task and related costs appear not to be realistic and unbalanced. The description and number of borings most likely may not provide enough information for design. Not much experience of an important sub-consultant has been shown. James Kelly is listed in the organizational chart as QA/QC yet he does not appear in the personnel chart listing the make-up of project fees. The write up did not project an experienced approach to the project.

LANGAN

The technical response was not very strong and convincing of an innovative approach for three potential options to bring about a cost-effective solution. Not to include into the work plan sub-surface investigations, but only as an option is the wrong choice. Even the basic fee amount is excessive; and personnel fee should have been given for individuals listed in the chart.

McLAREN ENGINEERING GROUP

Good description of proposed work. Presented an interesting concept for new bulkhead but using armor stone as one of the requested options. It was not clear if this was to be throughout the length of replacement. Future maintenance would be of concern. The choice of sub-consultants is good but may be more than needed. The proposal called for technical documents and design criteria to be provided by the Village. The proposer has the responsibility to do all investigation necessary for its designs. The fee although not the highest is still large.

Dolph Rotfeld Engineering, P.C.

April 2, 2015

Mr. Chris Steers
Bulkhead RFP
Page 2

OCC/COWI CONSULTANTS

Presented a very good understanding of the project and the challenges to come up with a cost-effective option. The sub-consultants appear to be quite experienced in the work required of them. The question of cost for providing assistance to the village or actual preparation of environmental impact statement or Short Environmental Assessment Form has to be included. This should not be expensive.

Combining the depth of project goals, understanding of the problems and solutions with the professional fees, I would rank OCC/COWI as the first choice for the assignment.



March 10, 2015

Christopher Steers, Village Manager
Village of Port Chester – Village Hall
222 Grace Church Street
Port Chester, New York 10573

Re: Bulkhead RFP Submission:
Full Design and Construction Plans for the
Repair of the Collapsed Bulkhead Section along
Byram River and Construction of “Activity Node”
plus Applicable Permit Work
Our File No. PR-15-6477

Dear Mr. Steers:

Howard L. Boswell, Engineer and Land Surveyor, P.E. (Boswell), in accordance with your Request for Proposal (RFP), is pleased to submit one (1) original and ten (10) copies of our Response Proposal for the above-referenced project with the fee schedule in a separate, sealed envelope per RFP instructions.

Boswell has the resources and is prepared to provide the engineering design and construction inspection services for the repair of the breached bulkhead along the Byram River. **Boswell** has an experienced and seasoned staff of professionals, including an in-house dive team, who have successfully completed multiple bulkhead repair and reconstruction projects. In addition, our highly knowledgeable staff has an excellent professional relationship with the New York State Department of State (DOS).

Boswell's team of professional engineers will be led by John R. Valentin, P.E. (NY) the designated Project Manager for this project. I am signing this Proposal as a duly authorized official of the company. We appreciate the opportunity to submit and look forward to applying our professional excellence towards the successful completion of this project.

Very truly yours,

HOWARD L. BOSWELL, ENGINEER AND LAND SURVEYOR



Kevin J. Boswell, P.E.

KJB/REM/alc
Enclosure



Administrative Information

Company Name: Howard L. Boswell, Engineer and Land Surveyor, P.C.
a.k.a. Boswell Engineering

Corporate Headquarters: 330 Phillips Avenue
South Hackensack, NJ 07606

Telephone: 201-641-0770
Fax: 201-641-2970
E-mail: marketing@boswellengineering.com
Website: www.boswellengineering.com

Principal-In-Charge: Stephen T. Boswell, Ph.D., P.E., P.P., LSRP, SECB

Project Manager: John R. Valentin, P.E.

Business Organization: Professional Corporation (New York)

Principals: Stephen T. Boswell -330 Phillips Ave., So. Hackensack, NJ
Kevin T. Boswell - 330 Phillips Ave., So. Hackensack, NJ
Bruce D. Boswell - 799 Madison Ave., Albany, NY

Years in Business/
Current Mgmt: 91 years / 33 years

Sub-consultants: U&S Engineers, P.C. (DBE) – Geotechnical Investigation
Richard Grubb & Associates, Inc. – Cultural Resources

Professional Liability: As required, Boswell will provide professional liability for negligent acts, errors and omissions and any other insurance coverage that would protect the Village of Port Chester from loss or harm, should this proposal be accepted.



SCOPE OF WORK

Problem Understanding

The Byram River waterfront is a vital component of the Village of Port Chester's (Village's) economic development, as noted in the Village's Local Waterfront Revitalization Program and Comprehensive Plan. Maintaining public access to this waterfront promenade provides a much needed recreational component for residents and visitors alike while promoting local businesses in the area. It is our understanding that the portion of the bulkhead included in this RFP (approximately 860 linear feet) is in need of stabilization, with some areas collapsed and closed off for use, impairing the walkway's connectivity.

From cursory research, it appears this bulkhead segment was constructed by a private entity and later turned over to the Village. Some have speculated that the original design did not properly account for drainage, causing the existing vinyl wall at the face of the bulkhead to fail and exposing same to continued erosion. Over the years deterioration has continued, and the Village has been actively seeking funding to assist with the needed repairs. Recently, the Village secured a \$225,420 grant through the New York State Department of State's (DOS) Local Waterfront Revitalization Program (LWRP) for engineering design and bid documents. The intent is to have the design include improvements to the bulkhead as well as an Activity Node promoting public waterfront access and education.

Project Approach

Because of the firm's long-term involvement in waterfront, as well as underwater structures, Boswell Engineering (Boswell) fully understands the scope of this project. Boswell has reviewed the Request for Proposal (RFP) along with the attachments provided for the proposed improvements. Boswell has also visited the site and performed a cursory inspection of the deteriorated areas. Our project approach will be in keeping with Tasks 6 – 13 as outlined in Attachment C – Work Plan, and our work will meet all of the requirements listed in the RFP.

Boswell has completed a number of similar projects in New Jersey and New York and was recently selected by Westchester County to provide the engineering services for bulkhead and seawall repairs at Glen Island Park in New Rochelle. In addition, Boswell not only has the necessary engineering expertise, with multiple New York State (NYS) Licensed Professional Engineers, but also has an in-house dive team with numerous divers licensed as NYS Professional Engineers, as well as the necessary environmental scientists needed to secure all permits.

Our firm will complete all of the activities listed in the RFP under the direction of John R. Valentin, P.E. who will serve as Project Manager. To begin, Boswell will attend a project kickoff meeting with all key stakeholders. At this meeting, project goals, requirements, and timelines will be reviewed and roles and responsibilities will be assigned. Boswell will prepare and distribute a meeting summary and will not proceed with subsequent tasks until the DOS approves the project approach detailed in the meeting minutes. Once approval is received, Boswell will complete a boundary and topographic survey, identifying all existing structures and delineating the project boundary as well as ownership limits.



This survey will be augmented by a hydrographic survey of the waterway bottom adjacent to the bulkhead. The hydrographic survey will be plotted on a 10 foot grid showing contour lines at 1 foot intervals and will be conducted using a range-azimuth system in combination with a digital recording depth sounder to collect mud line coordinates referenced to the National Oceanic Datum (or a datum referenced to a benchmark established upland of the bulkhead).

Complementing the hydrographic survey, Boswell will perform an underwater diver investigation to identify the existence of debris and other obstructions that might interfere with the potential installation of sheet piling and dredging operations during construction. The dive crew will consist of a three-man team operating from a 25 foot workboat equipped with surface-supplied air, commercial hard hat diver gear with two-way audio communications and underwater cameras. The dive team will inspect, document, and photograph (where underwater visibility permits) all areas of the existing bulkhead, paying particular attention to portions which might be salvageable and repaired. A report of all findings and recommendations will be prepared at the conclusion of the site reconnaissance stage.

The site reconnaissance work will also include completing a Phase 1A cultural resources assessment in accordance with the *Phase I Archaeological Report Format Requirements* (2005) of the New York State Office of Parks, Recreation, and Historic Preservation (OPRHP) and the *Standards for Cultural Resource Investigations* devised by the New York Archaeological Council (1994). The Phase IA assessment will be performed by an archaeologist meeting the National Park Service standards of 36 CFR 61. The purpose of the Phase IA cultural resources assessment is to assess the potential for significant archaeological sites within the project area for the proposed undertaking. No subsurface archaeological testing (identification-level survey) is proposed as part of the Phase IA assessment.

As part of the work under this phase, Boswell will employ a comprehensive approach to managing the environmental constraints unique to the site. Accordingly, our team will perform an in depth-field investigation to identify any critical habitat and verify the absence of wetlands within 100 feet of the proposed project limits. Upon identification of all regulated areas, Boswell will begin preparation of the preliminary environmental studies.

The geotechnical engineering services done at this stage will consist of performing a subsurface investigation, field boring supervision including preparing boring logs, laboratory testing, and preparation of a geotechnical report for the repair of the defined bulkhead section. It is anticipated that conventional geotechnical drilling and sampling can be used. It is envisioned that eight (8) Standard Penetration Test (SPT, ASTM D1586) borings to a maximum of 50 feet deep per boring will be performed. New York State Department of Environmental Conservation (NYSDEC) permits, as required, will be obtained by the drilling sub-contractor. The borings will be inspected and supervised in the field and boring logs will be prepared as per the Burmister soil classification system.

Once all site reconnaissance work is completed, Boswell will prepare three alternative schematic designs to review with the DOS and the Village. Laboratory testing for the evaluation of soil properties will be performed on selected samples. Recommendations for three viable wall repairs from a geotechnical viewpoint will be developed, and a preliminary analysis for these recommended repairs will also be performed. The geotechnical findings, laboratory results, analysis and recommendations will form part of the alternative schematic designs to be developed under this task.



Schematic designs to be evaluated may include replacement of the failed areas and minor modifications to the remaining sections; replacement of the failed section and major modifications to the remaining sections; and complete replacement of the defined bulkhead section. From a brief review, it does not appear that there will be impacts to State designated Significant Coastal Fish and Wildlife Habitat areas, Scenic Areas of Statewide Significance, or other State Coastal Management Programs. Following this design development and in consultation with the DOS, Boswell will conduct a public meeting to solicit input on the design schematics and assist in choosing a preferred alternative. Boswell will work with the Village and DOS to ensure the public's input is solicited through a variety of platforms including feedback at the meeting but also through the Village's website and other social media as suitable.

After a final design is selected and the potential environmental disturbances can be more accurately quantified, Boswell will prepare a Construction Requirement Analysis (Analysis) listing all permits, approvals, and requirements and detailing how each requirement will be met. Due to the disturbances to the tidally influenced Byram River, the project will require a NYSDEC Tidal Wetlands Permit and Protection of Waters Permit, as well as an Army Corps of Engineers (ACOE) Nationwide Permit 13.

The NYSDEC permits are required since the proposed activities are located within tidally flowed Waters of the United States. The ACOE Nationwide Permit (NWP) authorizes the, "repair, rehabilitation or replacement of any previously authorized, currently serviceable structure, or fill, or of any currently serviceable structure or fill authorized by Code of Federal Regulations, 33 CFR 330.3, provided that the structure or fill is not to be put to uses differing from those uses specified or contemplated for it in the original permit or the most recently authorized modification." Minor deviations or filled area including those due to changes in the materials, construction techniques or current construction codes or safety standards which are necessary to make repair, rehabilitation, or replacement are permitted provided that the adverse environmental effects resulting from such repair, rehabilitation, or replacement are minimal.

In addition to the above permits, a Floodplain Development Permit is required for all activities located within a special flood hazard area as shown on the Flood Insurance Rate Map. This federally mandated program for "State projects" is regulated at the municipal level through the Village of Port Chester with support from the NYDEC, as needed. Boswell will prepare the necessary Floodplain Development Application for the proposed activities as set forth at 6 NYCRR Part 502 and Chapter 181-11 of the Village of Port Chester Municipal Code. The other permitting component for this project is the Soil Erosion and Sediment Control Certification. In addition, an NYSDEC State Pollution Discharge Elimination System (SPDES) General Permit for Stormwater Discharge will also be required since the project has a total disturbance exceeding one (1) acre of land.

Work on final design will proceed once the DOS has approved the Analysis detailing each of the aforementioned permits. Boswell will then complete the necessary documents for a determination of significance by the State Environmental Quality Review Act (SEQRA). In accordance with SEQRA, the project meets the requirements of a Type II Action since the proposed activities consist of the repair and replacement of previously authorized structures. Technically an environmental review is not required for this type of activity since repair and rehabilitation projects were determined to have no significant adverse environmental impacts.



Village of Port Chester

Technical Proposal

*Engineering Design and Construction Plans
for the Repair of the Collapsed
Bulkhead Section along Byram River*

However, in order to ensure strict compliance with the regulations, a Short Environmental Assessment Form (SEAF) will be completed. The SEAF will reference the effect the project will have on public safety, health and welfare; the protection of public and private property; and the preservation and enhancement of natural resources and the environment. In accordance with SEQRA, Boswell anticipates evaluating: Land Resources (soil, geography and topography); Air Quality; Climate Impact; Hazardous Materials; Water Resources and Water Quality; Wetlands; Floodplain Management; Vegetation; Wildlife; Threatened and Endangered Species; Site and Adjacent Land Use; Environmental Justice; Noise; Zoning and Traffic; Public Services and Utilities; and, Public Health, Safety and Security. We will also conduct an analysis for any impacts to the above and include a listing of all applicable local, State and federal permits required. Although Boswell does not anticipate the need to prepare a Draft Environmental Impact Statement, the cost to provide the additional material associated with this type of document is included as part of this task.

Boswell will then prepare draft final plans for review and submittal to the DOS and the Village. Once comments are received and addressed, we will prepare all final construction documents including plans, specifications, and cost estimates. After these documents have been approved by the DOS and the Village, Boswell will prepare the necessary application packages for the various State and federal permits previously noted. This will consist of all deliverables required to secure the necessary permits including, but not limited to: compliance statements, administrative forms, photo-documentation, public notification, location maps, threatened and endangered species inventories, qualifications, acquisition of tidelands documents and environmental drawings. Prior to filing for permits, all applications shall be submitted to the DOS for review and comment.



Cost Estimating Experience

Boswell is adept at accurately estimating project construction costs, relying on experience accumulated over 91 years in the industry. In addition, our engineers work closely with our construction inspection staff to ensure each design can be adequately built and is well suited to the conditions and limitations of the site. Following is a summary of cost estimating on prior projects.

Project	Waterfront	Cost Estimate	Low Bid	Final Construction Cost
Castle Point and Sinatra Park Walkway Reconstruction	Hudson River	\$9,900,000.00	\$9,638,786.25	\$9,061,000.00
Joe Ashlin Bulkhead Reconstruction	Passaic River	\$390,000.00	\$400,000.00	\$400,000.00
Port Liberté Bulkhead Reconstruction	Hudson River	\$3,100,000.00	\$3,000,000.00	\$3,000,000.00
Waterside Plaza Improvements	Hudson River	\$1,150,000.00	\$1,200,000.00	\$1,200,000.00
Stevens Institute of Technology Waterfront Walkway	Hudson River	\$3,500,000.00	\$3,200,000.00	\$3,200,000.00
Shelter Bay Waterfront Promenade	Hudson River	\$960,000.00	\$945,000.00	\$945,000.00

CASTLE POINT AND SINATRA PARK

ENVIRONMENTAL PERMITTING & REGULATORY COMPLIANCE

Hoboken, New Jersey

SCOPE OF SERVICES:

- Individual Waterfront Development Permit
- Army Corps of Engineers Individual Permit
- Engineering Design and Construction Management

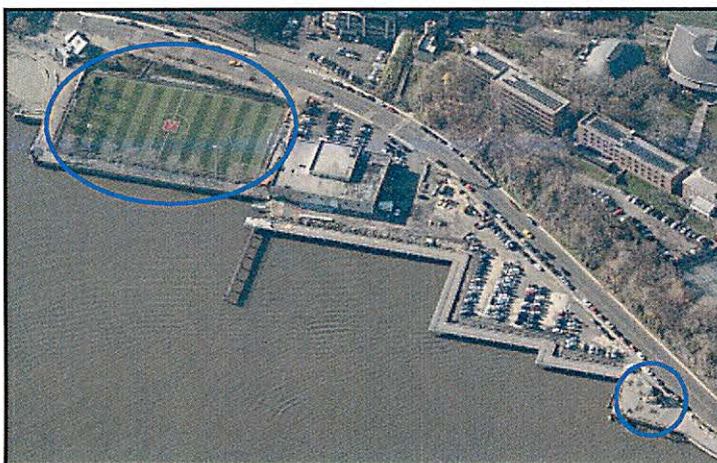
DESCRIPTION:

Resulting from a catastrophic failure of an existing waterfront recreation facility and the ever increasing need for passive and active recreation, the City of Hoboken authorized Boswell Engineering (Boswell) to provide the design and construction administration services for the Castle Point and Sinatra Park Walkway Reconstruction Project.



Boswell was directly responsible for the engineering design, construction administration, and construction inspection for the reconstruction of two facilities along Hoboken's Hudson River waterfront. The reconstruction of Castle Point, a picturesque passive recreation area consisted of the rehabilitation of approximately 3,100 square feet of existing waterfront structure and the re-establishment of the gazebo and waterfront promenade areas, including site lighting and amenities. The reconstruction of Sinatra Park, the larger, more complex portion of the project consisted of the reconstruction of the soccer field and promenade which sits atop a new 19,000 square foot platform. The complete Sinatra Park scope of work entailed the reconstruction of approximately 96,000 square feet of park and recreation areas. Sinatra Park was originally constructed on a wooden platform in the early 1900's. The structure failed due to its age and marine borer infestation. The replacement platform was constructed utilizing steel pile foundations with pre-cast concrete pile-caps and deck panels. The facility has a new synthetic-turf soccer field along with a riverfront promenade offering spectacular views along the Hudson River. Incorporated into this project are improvements to the existing sports-lighting system, new spectator bleachers, new galvanized fencing specifically utilized allowing less obstructed views of the NYC skyline, decorative site lighting and new solar-powered trash/recycling compactors. This project included the reconstruction of an existing ADA compliant ramp accessing the existing waterfront amphitheater.

Due to the proximity of the site to the Hudson River, our office secured the requisite permits from the New Jersey Department of Environmental Protection (NJDEP) and the Army Corps of Engineers (ACOE).



SCOPE OF SERVICES:

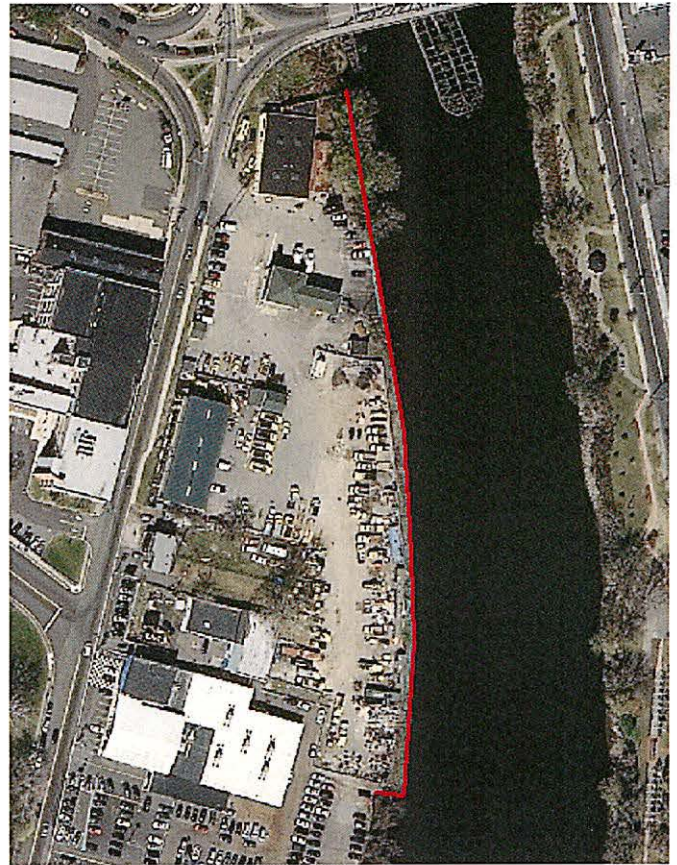
- Individual Waterfront Development Permit
- Army Corps of Engineers Individual Permit
- Passaic River Bank Stabilization

DESCRIPTION:

Boswell prepared a site plan, Individual Waterfront Development Permit and Army Corps of Engineers Individual Permit for the reconstruction of a 106 linear foot section of an existing bulkhead in the City of Passaic, New Jersey. The existing bulkhead was severely damaged by Superstorm Sandy causing the property to shift towards the Passaic River. The restoration of the failed bulkhead prevented future sediment from escaping into the river and restored the structural integrity of the entire property.

During a separate storm event, post Superstorm Sandy, a small section of the wall collapsed causing a parked water truck as well as a large amount of sediment to fall into the Passaic River. The truck was later removed while the property owner had to deal with the hardship of not utilizing the property for its intended purpose until the bulkhead was repaired.

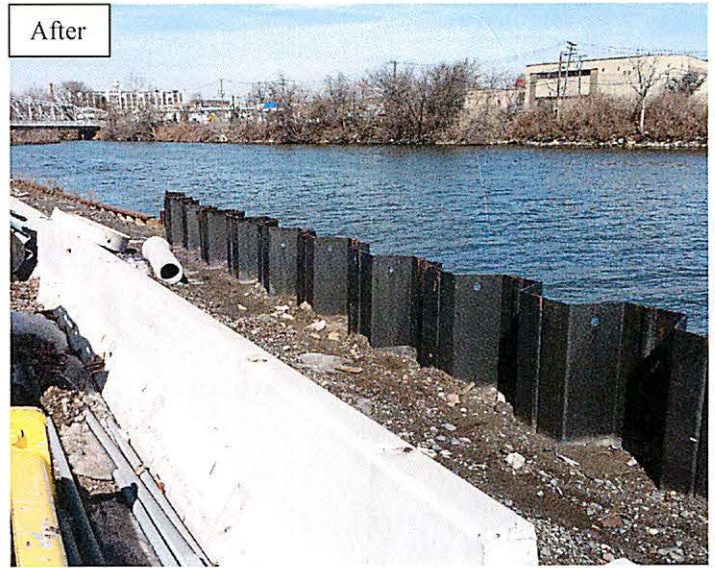
The bulkhead reconstruction included 43 foot long AZ18-700 sheets driven into the riverbed with 4 to 8 inches from the existing face of the damaged structure. New tie rods were anchored to a concrete deadman set approximately 32 feet landward of the proposed wall section. The tie rods will be spaced at 10 foot intervals and are shimmed and fastened to the new wall with MC 12 x 50 walers, restoring stability to this section of the property and preventing a structural failure.



Before



After



RIVER DRIVE (CR 507) IMPROVEMENTS

ENVIRONMENTAL PERMITTING & REGULATORY COMPLIANCE

Garfield, New Jersey

SCOPE OF SERVICES:

- Comprehensive Design and Bid Documents
- Construction Management
- Division of Land Use Regulation Permits
- NJDEP Mitigation/Conservation Restriction
- Green Acres Minor Diversion of Use

DESCRIPTION:

The project involved the widening, realignment and intersection improvements necessary to upgrade a 0.87 mile section of an existing county road and improve driver safety. Additionally, the project proposes to construct a riverside park adjacent to the Passaic River to increase public open space and promote outdoor recreation within the City.



The objective of the project was to improve River Drive, while providing the local residents with a fully accessible riverside park. Previously, the area surrounding the subject properties consisted of densely developed urban land with a mixture of residential homes, automobile repair shops, service stations, retail stores, and industrial properties. The proposed improvements replaced the existing commercial/industrial properties adjacent to the Passaic River with a variety of recreational features such as a 3,924 L.F. riverfront bike path, one (1) playground area, one (1) pavilion, two (2) parking areas and a paver sidewalk with wooden benches and decorative lighting fixtures. The improvements were supported by a 15' high steel and concrete panel wall system along the embankment of the watercourse.

The linear riverfront park, designed to take advantage of the scenic views of the Passaic River and the Historic Dundee Dam, also includes a great lawn, a walkway along the river and a canoeing/kayak trail on the Passaic River with boat launch facilities on either side of the Dundee Dam.

This project is a result of a concerted effort over a period of two decades to acquire multiple properties and to formulate the funding sources necessary to modernize this roadway, together with creating a significant recreational asset which will serve as the benchmark for Garfield's future development along the Passaic River. The River Drive Improvement project won the 2012 New Jersey Society of Municipal Engineers Award for Municipal Management Project of the Year.



SHELTER BAY, HUDSON COVE & THE MOORINGS

ENVIRONMENTAL PERMITTING & REGULATORY COMPLIANCE

Edgewater, New Jersey

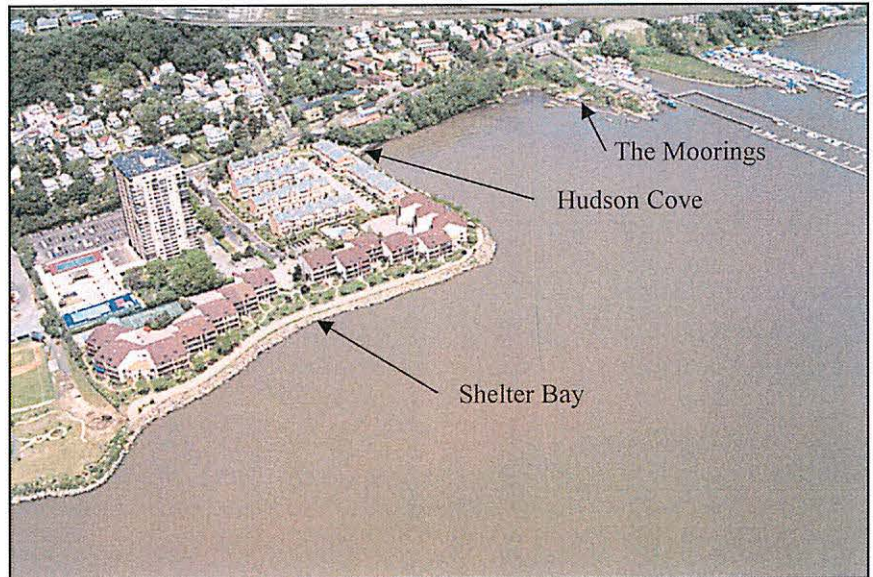
SCOPE OF SERVICES:

- Federal & State Environmental Permitting;
- Waterfront Walkway Design; and,
- Hudson River Bank Stabilization.

DESCRIPTION:

Over the years Boswell completed three (3) contiguous development projects along the Hudson River waterfront. The projects included:

- Shelter Bay;
- Hudson Cove; and
- The Moorings.

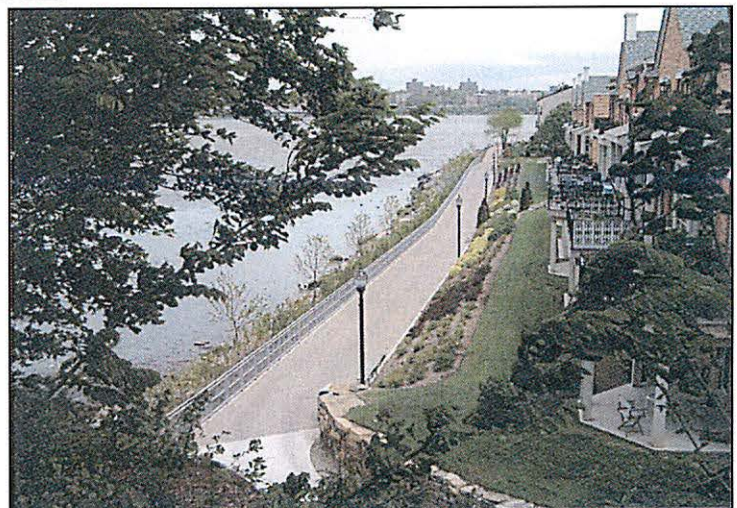


The projects involved acquiring all necessary Federal and State permitting and completing the design for three (3) townhouse complexes located immediately adjacent to the Hudson River in Edgewater, New Jersey. Prior to the design Boswell met with all involved agencies to ascertain the necessary permits. All projects were required to construct a Hudson River Waterfront Walkway consistent with the walkway located at Liberty State Park. Boswell played an integral role in preparing the guidelines utilized for the current walkway designs stretching from Jersey City in the south to Fort Lee in the north.

At Shelter Bay, Boswell designed a shoreline protection system that has withstood the wave and tidal action of the Hudson River for almost 20-years. A similar design was utilized at Grand Cove and achieved the same results.

At The Moorings, Boswell proposed the restoration and ecosystem enhancement of the shoreline. A dry laid rock retaining wall will be constructed along the proposed waterfront walkway. The proposed wall is located to provide for a uniform walkway along the water's edge. The wall's purpose is to provide protection to the natural and scenic resources by limiting the disturbed area. The walkway requires filling some areas below the spring high tide. The areas are currently filled with large debris. Since the walkway is a water dependent use in this area, the fill is permitted. In areas which are on the waterward side of the proposed wall, the fill can be removed to create additional mudflats or retained and landscaped to provide for additional access to the waterfront.

Realignment of the existing filled shoreline, which is a previously realigned water area, is necessary to create a more uniform area to support the proposed walkway. The realignment has no adverse impacts of water quality, flood hazard or species reduction. The areas located below the current high water line are filled with debris from prior docks and barges. The project concerns the removal of the debris and the realignment of the shoreline to provide greater access to the waterfront and to enhance the natural and scenic resources in the area.



SCOPE OF SERVICES:

- Individual Waterfront Development Permit
- Army Corps of Engineers Individual Permit
- Hudson River Bank Stabilization

DESCRIPTION:

Boswell prepared a site plan, Individual Waterfront Development Permit and Army Corps of Engineers Individual Permit for the reconstruction of a 1,391 linear foot section of an existing bulkhead and a portion of the Hudson River Waterfront Walkway in the City of Jersey City, New Jersey. The existing bulkhead and waterfront walkway were destroyed beyond repair by Superstorm Sandy. The restoration of the collapsed bulkhead prevented water from entering the site near Constitution Way during periods of high tide while restoring the structural integrity of the property.

The bulkhead reconstruction project was designed to install new AZ36 steel sheeting with wood pile caps and aluminum pipe railing within the same footprint as the previously existing failed bulkhead to minimize environmental disturbances. The project also included the restoration of the decking and lighting along the severely damaged Hudson River Waterfront Walkway which had been closed to the public since Superstorm Sandy.

The main goals of the project were to achieve the following objectives:

- Restore the existing waterfront- The waterfront has presently been revitalized in several key areas, and will continue to progress using methods consistent with the New Jersey Department of Community Affairs's Office of Smart Growth.
- Restore the Port Liberté Bulkhead- The structural integrity of the surrounding properties had been compromised when the bulkhead failed during Superstorm Sandy. This caused an exponential increase of property damage due to flooding by what should have only been minor storms.
- Reestablish the public's right of access- Since its destruction during Superstorm Sandy the Hudson River Waterfront Walkway had been closed to the public preventing the public from enjoying unparalleled views of the Manhattan skyline on a daily basis.



HUDSON RIVER WATERFRONT WALKWAY

ENVIRONMENTAL PERMITTING & REGULATORY COMPLIANCE

Hoboken, New Jersey

SCOPE OF SERVICES:

- Individual Waterfront Development Permit
- Army Corps of Engineers Individual Permit

DESCRIPTION:

Boswell prepared a site plan, Individual Waterfront Development Permit and Army Corps of Engineers Individual Permit for the construction of a 840 linear foot section of the Hudson River Waterfront Walkway and the installation of an 8 foot public fishing pier and dock in the City of Hoboken, New Jersey. The installation of this waterfront walkway eliminated a known "gap area" creating a contiguous river walk from Castle Point Park to Sinatra Park. The project also included the rehabilitation of a collapsed bulkhead and parking facility located adjacent to the walkway.



The riverfront walkway extension was constructed as a free-standing structure supported by 14 inch steel shell piles for maximum durability. This design was necessary since the existing on-site pier was not structurally sound and portions of the bulkhead had already collapsed. The steel pilings were crowned with concrete pile caps to support the decking which consists of 12 inch pre-cast concrete planks and 6 inch x 9 inch brick pavers.

The main goals of the project were to achieve the following objectives:

- Redevelop the existing waterfront- The waterfront has presently been revitalized in several key areas, and will continue to progress using methods consistent with the New Jersey Department of Community Affairs's Office of Smart Growth.
- Reestablish the public's right of access- Recently the City of Hoboken, through property acquisition and coordination with private owners, has allowed the public to enjoy the unparalleled views of the Manhattan skyline on a daily basis.
- Provide the public with a number of recreational facilities and areas of open space- The proposed walkway enhanced the type of activities offered along the Hudson River waterfront by providing the public with an 8 foot wide fishing pier and docking facility for oceanic research vessels owned by the Stevens Institute of Technology.
- Decrease traffic congestion- In the past, the public was not given the option of walking to the ferry or PATH system. However, following construction of Pier A and Sinatra Park, an overwhelming percent of commuters prefer to use these pedestrian corridors.
- Waterfront Education- The walkway project will also provide the public with educational material, in the form of signs and dedications, to inform the public concerning the historical value and economic significance of the Hudson River Waterfront over the past 100-years.

The project was completed in 2009 and is an integral part of the waterfront walkway.





DESCRIPTIONS OF KEY PERSONNEL

The following are descriptions of the key personnel that will be assigned to this project. An organizational chart, as well as, resumes for each has been included in this section for reference.

Principal: Stephen T. Boswell, PhD, P.E., P.P., LSRP, SECB

With over 35 years of experience in the engineering industry, Dr. Boswell is the current managing officer of the firm and will serve as the Principal-in-Charge for this project. In this capacity, Dr. Boswell will oversee all design and construction management efforts and will hold the ultimate responsibility for the quality and timeliness of this project.

Project Manager: John R. Valentin, P.E.

Mr. Valentin will serve as Project Manager, handling all day-to-day tasks and communications with both the Village and the DOS. Mr. Valentin has over 31 years of structural engineering experience related to the design and construction of bulkhead repairs, bridges, retaining walls, and buildings. As Project Manager, Mr. Valentin will coordinate with the various disciplines to ensure all deadlines are met. In addition, Mr. Valentin possesses the necessary geotechnical engineering expertise to interpret all geotechnical findings and provide a design suitable to the site conditions.

Project Engineer: Ljupcho T. Naumchevski, P.E.

As Project Engineer, Mr. Naumchevski will utilize the diving information and rely on his structural engineering expertise to assist Mr. Valentin in developing the 3 design schematics. Mr. Naumchevski has completed numerous pier inspections and bulkhead rehabilitation projects in New York over his 25 year career and will leverage this knowledge for the benefit of the project.

Diving Task Leader: Michael J. Ganas, P.E.

Mr. Ganas will oversee all diving tasks, coordinating the hydrographic survey work as well as the underwater diving investigation of the bulkhead. With more than 33 years of marine engineer experience and over 900 successfully completed projects, Mr. Ganas is adept at identifying and highlighting key site constraints on bulkhead repair projects.

Survey Task Leader: Michael P. Wheeler, P.L.S.

Mr. Wheeler will oversee all survey work and ensure that the final survey is an accurate depiction of existing conditions and includes all pertinent ownership information as described in the RFP. With more than 35 years of experience, Mr. Wheeler understands the necessity of a detailed and thorough survey to ensure a successful design and construction.



Village of Port Chester

Technical Proposal

*Engineering Design and Construction Plans
for the Repair of the Collapsed
Bulkhead Section along Bvram River*

Cultural Resources Task Leader: Paul McEachen

Mr. McEachen will direct the Phase 1A Cultural Resources Assessment during the site reconnaissance phase of this project. Mr. McEachen has successfully collaborated with our firm on similar projects in the past.

Geotechnical Task Leader: Upendra L. Karna, P.E.

Mr. Upendra will oversee the geotechnical investigation work for this project. Mr. Upendra has over 28 years of geotechnical and foundation design experience and has partnered with our firm on multiple projects in the past.

Permitting Task Leader: Frank Rossi, LSRP

Mr. Rossi will lead all permitting efforts including the SEQRA review. Over his 32 year career in environmental permitting, Mr. Rossi has developed an excellent professional relationship with federal and state agencies including the US Army Corps of Engineers, the Federal Emergency Management Agency (FEMA), and the New York State Department of Environmental Conservation (NYSDEC).

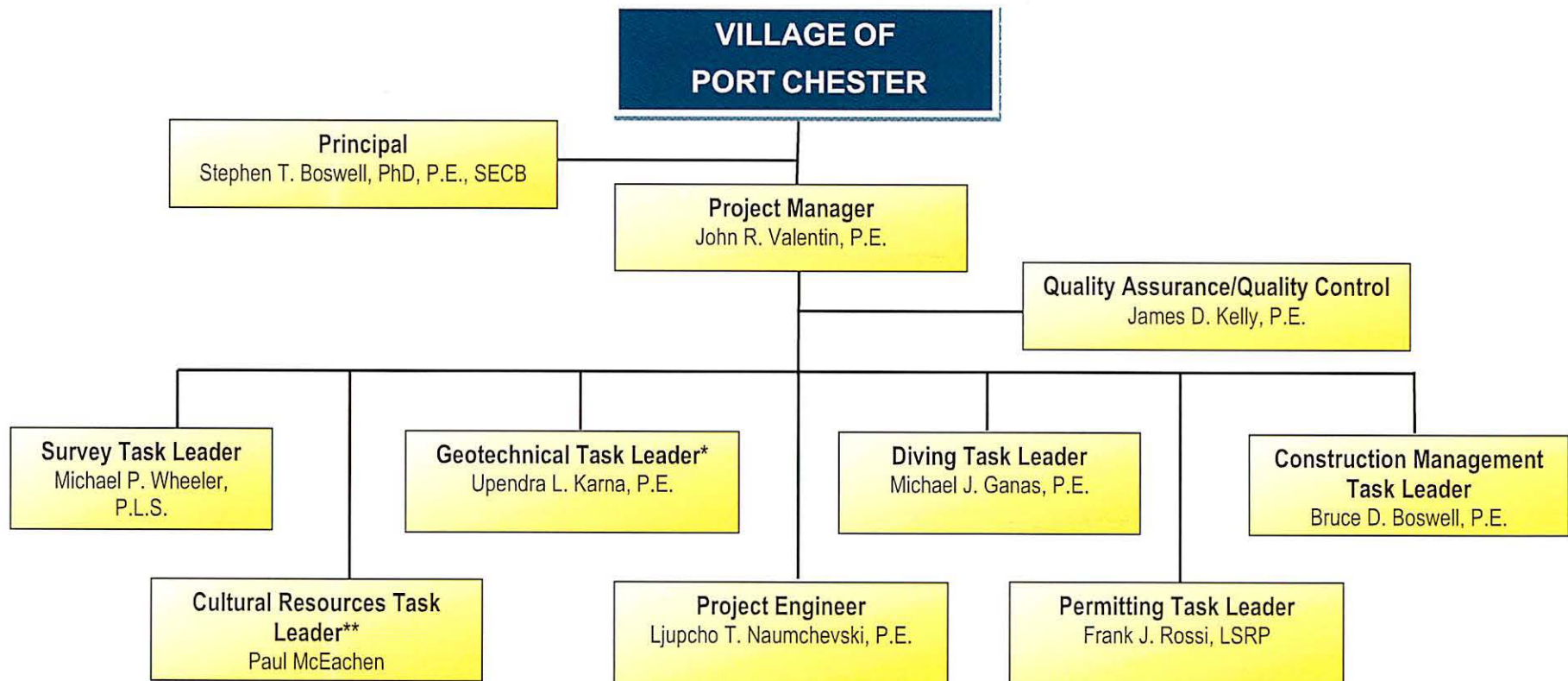
Construction Management Task Leader: Bruce Boswell, P.E.

Mr. Boswell will oversee the construction administration and inspection services associated with this project. In this capacity, he will ensure that all construction activities are documented and that the project is properly closed out once construction is completed.



Organizational Chart

Engineering Design and Construction Plans for the Repair of the Collapsed Bulkhead Section along Byram River



Subconsultants:

*U&S Engineers, P.C. (DBE)

**Richard Grubb & Associates, Inc.

STEPHEN T. BOSWELL, Ph.D., P.E., P.P., LSRP, SECB
PRINCIPAL



YEARS OF EXPERIENCE: 35 Years

EDUCATION:

B.A. Biology/Chemistry, New York University
M.A. Biological Sciences, William Paterson University
Degree of Civil Engineer (Double Master's Degree), Stevens Institute of Technology
Ph.D. Environmental Engineering, Stevens Institute of Technology

REGISTRATION:

Professional Engineer - Arizona, Arkansas, California, Connecticut, Delaware, Georgia, Illinois, Iowa, Kansas, Kentucky, Maine, Maryland, Michigan, Minnesota, Nevada, New Hampshire, New Jersey, New York, North Carolina, North Dakota, Ohio, Pennsylvania, South Carolina, Texas, Vermont, Virginia, West Virginia and Wisconsin
NICET - Certified, Highway Construction
Certified Public Works Manager
Qualified Environmental Professional

GUBERNATORIAL APPOINTMENTS:

Dr. Boswell was appointed by the Governor of the State of New Jersey and confirmed by the State Senate to the New Jersey Council on Environmental Quality.
Dr. Boswell was appointed by the Governor of the State of New Jersey as a Member of the Regional Intergovernmental Transportation Coordinating Study Commission.

EXPERIENCE:

Dr. Boswell is the President and CEO of Boswell Engineering, directing all phases of the business. Under his direction the firm has provided the design and construction engineering for hundreds of miles of newly constructed, redesigned or relocated roads and major state and interstate highways and bridges throughout the northeastern United States. He is also the appointed municipal, planning board, and zoning board of adjustment engineer for over 30 communities. As a recognized expert in his field, Dr. Boswell has served as an expert witness for numerous public and private entities in litigation, arbitration and mediation proceedings.

As the managing officer of Boswell Engineering, Dr. Boswell is ultimately responsible for the quality and timeliness of all projects performed by the firm. A sampling of significant projects in various engineering disciplines of the firms is listed below:

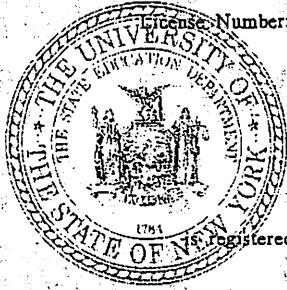
- **Castle Point and Sinatra Park Waterfront Walkway Reconstruction, Hoboken, NJ.** This project involved the inspection, design, and preparation of contract plans for the replacement of collapsed portions of the sea walls at Castle Point (150') and Sinatra Park (38'). Items of work include construction of new pile supported retaining walls and platform structures, concrete repairs and pile jacketing at portions of existing seawall to remain, and replacement of damaged walkway and soccer field sections. Acquisition of the necessary NJDEP and ACOE permits was also performed. (Approximately \$9 Million in construction costs).
- **NYSTA, Albany County, NY.** Design for the rehabilitation of 20 miles of roadway and the rehabilitation of five (5) bridges between MP 141.3 and MP 161 (approximately \$16 Million in construction costs).

STEPHEN T. BOSWELL, Ph.D., P.E., P.P., LSRP, SECB

- **New York State Department of Transportation (NYSDOT).** Highway design, bridge design, bridge inspection, and constructibility review for specific projects in the six (6) county area of Region 2 under the 1993-1997 Design Service Agreement (\$1.75 Million fee).
- **NYSDOT.** Construction supervision for the Stage II and State III reconstruction of six (6) kilometers on I-287/CWE (Exits 2 to 8) and the rehabilitation of four (4) bridges and 14 bridge replacements in Westchester County (approximately \$250 Million in construction cost).
- **NYSDOT.** Underwater inspections and fathometric surveys including videotape documentation of 450 bridges and waterfront facilities under 2 contracts, NYSDOT Regions 3,4,5 & 6 and NYSDOT Regions 10 & 11 (\$3.8 Million fee).
- **New York State Thruway Authority (NYSTA).** Construction supervision for the reconfiguration of I-87/I-287 from the Tappan Zee Bridge Toll Plaza to the Saw Mill Parkway Crossing on I-287 a distance of approximately three (3) miles (approximately \$200 Million in construction cost).
- **County of Albany, New York.** Design and construction supervision of eight (8) highway and bridge projects under two (2) agreements (approximately \$26.5 Million in construction cost).
- **New Jersey Turnpike Authority (NJTA), Middlesex County, NJ.** Design for the construction of a new four (4) lane 3.6 mile section of Route 92 including four (4) bridges, a toll plaza and an administration building (approximately \$70 Million in construction cost).
- **NJTA.** Construction supervision for the construction of Interchange 15X which involves a new ramp network over and under the mainline and a new segment of local roadways connecting to the new interchange (approximately \$190 Million in construction cost).
- **New Jersey Transit. Design/Build/Operate/Maintain (DBOM) Project** for a 35 mile section of the Southern NJ Light Rail Transit System between Camden and Trenton. Boswell's responsibilities include facilities engineering - *civil, utility and traffic engineering, and right-of-way*, technical services - *permitting, survey and mapping*, and environmental services (approximately \$600 Million in construction cost).
- **County of Bergen, NJ.** Design and construction engineering services for the River Road Public/Private Partnership in Edgewater, NJ involving the reconstruction of three (3) miles of five (5) lane roadway including signalization and two (2) municipal parking lots (approximately \$12 Million in construction cost).
- **Connecticut Department of Transportation.** Design for the rehabilitation and/or replacement of 13 bridges under the Infrastructure Renewal Program (approximately \$15 Million in construction cost).
- **New Jersey Department of Transportation (NJDOT).** Design services and constructibility review associated with a NJDOT Design/Build contract for the replacement of three (3) bridges in Maplewood, North Plainfield and Plainfield, NJ (approximately \$2.6 Million in construction cost).
- **NJDOT, Randolph, NJ.** Design for the reconstruction of four (4) miles of Sussex Turnpike (approximately \$26 Million in construction cost).
- **NJDOT.** Construction management for the reconfiguration of the Route 4 & 17 Interchange (approximately \$50 Million in construction cost).

Dr. Boswell has authored numerous environmental impact statements and wetlands reports and has been qualified as an expert by: the New York Superior Court, Brooklyn, New York on structural engineering and has dealt extensively with the SEQRA process in New York State and the ECRA/ISRA process in New Jersey.

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BOSWELL STEPHEN THOMAS
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is registered to practice in New York State through 08/31/2016 as a(n)
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LICENSEE/REGISTRANT

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EXECUTIVE SECRETARY

John W. [Signature]
COMMISSIONER OF EDUCATION
D. De E. [Signature]
DEPUTY COMMISSIONER
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STRUCTURAL ENGINEERING
CERTIFICATION BOARD

STEPHEN T. BOSWELL
CERTIFICATION NUMBER 1046-0705

FULFILLS THE PRESCRIBED REQUIREMENTS AND IS HEREBY GRANTED
CERTIFICATION IN THE PRACTICE OF STRUCTURAL ENGINEERING.

EFFECTIVE June 01, 2014

EXPIRES July 01, 2015

JOHN R. VALENTIN, P.E.
PROJECT MANAGER



YEARS OF EXPERIENCE: 32 Years

EDUCATION: BSCE, University of Pittsburgh

REGISTRATION: Professional Engineer - New Jersey, New York

EXPERIENCE:

Mr. Valentin has over 32 years of structural experience related to the inspection, design and construction of bridges and buildings. He has served as a Project Manager and a Project Engineer on structural projects for numerous governmental agencies including but not limited to the New Jersey Turnpike Authority (NJTA), New Jersey Department of Transportation (NJDOT), New York City Transit (NYC Transit), New York City Department of Transportation (NYCDOT), the Triborough Bridge and Tunnel Authority (TBTA), Metro-North Railroad (Metro-North), New York State Department of Transportation (NYSDOT), New York State Thruway Authority (NYSTA), and the Port Authority of NY & NJ (PANY&NJ).

Project/structural engineer on the following design and inspection contracts:

- Dulles International Airport Main Terminal Expansion and Ramp Widening.
- PANY&NJ Rehabilitation of Highway Bridges at JFK International Airport.
- NYCDOT Rehabilitation of Williamsburg Bridge.
- Design of I-10 Casa Grande Highway in Phoenix, Arizona.
- TBTA Throgs Neck Bridge Steel Stringer Repair Contract.

Representative project experience includes

- **Castle Point and Sinatra Park Waterfront Walkway Reconstruction, Hoboken, NJ:** Structural Project Engineer responsible for the design and preparation of contract plans for the replacement of collapsed portions of the sea walls at Castle Point and Sinatra Park. Items of work include construction of new pile supported retaining walls and platform structures, concrete repairs and pile jacketing at portions of existing seawall to remain, and replacement of damaged waterfront walkway and soccer field sections.
- **NYSDOT - Brooklyn Bridge, Brooklyn, New York:** Inspector for the biennial inspection of this structure including preparation of bridge inspection and condition reports.
- **PANY&NJ - New Jersey Marine Terminal Bridges, Port Newark and Port Elizabeth, NJ:** Quality Control Engineer for the inspection and preparation of condition survey reports of seven (7) bridges for the Quality Assurance Division.
- **PANY&NJ QAD, Condition Survey of Port Newark Berths 2-36.** Structural Task Leader on this project for structural capacity analysis of Berth 6 at Port Newark. The project entailed underwater inspection to verify the extent of deterioration to the berth structural elements (timber piles, timber pile caps and timber decking) and analysis to determine the remaining capacity of the berth structure based on the field measured, reduced cross sections.
- **Metro-North - Movable Bridges:** Inspector for rehabilitation of the Cos Cob and Devon double-leaf bascule span moveable bridges and the Walk swing span movable bridge along the New Haven line. Responsibilities included inspection of these truss structures, preparation of contract plans and performance of rating analysis of the structural steel trusses using AREA Design Criteria for Railroad Engineering.

JOHN R. VALENTIN, P.E.

- **County of Bergen – Repair of Colonial Road Arch Over Pond Brook, Structure No. 0200-20A, Borough of Franklin Lakes, New Jersey:** Project Manager for the project which included the replacement of the existing 22' single span historic arch structure, with of a new 3-sided rigid frame structure tied into the existing 3-sided rigid frame structure to the north of the existing arch. New wing walls and headwall were designed as part of the reconstruction. The project also involved surveying, hydraulic/hydrologic study, Permit Applications and Maintenance and Protection of Traffics.
- **County of Warren - Reconstruction of Bridge No. 10031 County Route 519 Over the Lopatcong Creek, Township of Harmony, NJ:** Structural Task Leader for the Preliminary and Final Design for replacement of an existing, 22' single span bridge over Lopatcong Creek with a 27' span – 3-sided precast concrete rigid frame structure. Major components of the project included roadway widening and realignment, structure replacement with precast including wingwalls, foundation design, hydraulic analysis, survey and wetland delineation, MPT/Detour plan preparation, design of a bypass roadway for a temporary bridge to allow for road closure and rapid structure construction, ROW takings and descriptions, utility relocation and NJDEP permitting. (2012)
- **County of Warren – Culvert #01006 Replacement, County Route #612 Over a Tributary to the Pequest River, Township of Allamuchy, New Jersey:** Structural Task Leader for the proposed project which included the replacement of an existing culvert which carries Johnsonburg Road over a Tributary to the Pequest River. The existing 9' x 5' was replaced with a 12' x 5' three sided rigid frame concrete culvert matching the general alignment. A full hydraulics analysis was performed. In addition to the precast 3-sides rigid frame, the design also featured precast footings, wingwalls, and parapets.
- **County of Warren - Reconstruction of Bridge #08001A, Charles Street Over Trout Brook, Town of Hackettstown, New Jersey:** Structural Task Leader for the superstructure replacement of this existing 32 feet single span, pre-stressed concrete, adjacent voided slab structure. The scope of services include: topographic survey, superstructure replacement design (proposed superstructure will also be pre-stressed concrete, adjacent voided slab beams with a composite concrete deck, MPT (detour), utility relocation, drainage design and environmental permitting.
- **Borough of Oakland - Allerman Brook Improvements, Bergen County, NJ:** Structural Task Leader on this project which included design of reinforced concrete and gabion retaining walls for the stabilization of Allerman Book resulting from severe erosion in the Borough of Oakland.
- **300 Prospect Street – Prospect Towers, Garage Collapse, City of Hackensack, NJ:** Project Manager for the damage assessment inspection of this 2-story below grade structure which suffered a catastrophic collapse on July 10, 2010. Duties included the assessment of structural damage to the parking deck structure and determination of the structural integrity of the adjacent 18-story residential building abutting the failed structure. Duties also included the review of calculations performed by the owner's engineer for the analysis of the adjacent residential structure, as well as review of the design and contract plans for the reconstruction of the parking garage. Regular inspections were also performed during the reconstruction to ensure conformance with the design contract documents.
- **New Jersey Turnpike Authority (NJTA) GSP Division - Driscoll Bridge Rehabilitation and Widening Project:** Project Manager for one of the largest bridge construction projects in New Jersey. This improvement project entailed the construction of a new 96-foot wide parallel bridge to the west of the existing bridge.

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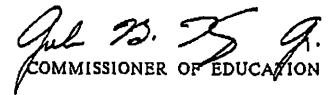
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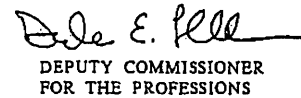
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HACKENSACK NJ 07601-0000

is registered to practice in New York State through 04/30/2016 as a(n)
PROFESSIONAL ENGINEER

LICENSEE/REGISTRANT


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MICHAEL P. WHEELER, P.L.S.
SURVEY TASK LEADER



YEARS OF EXPERIENCE: 35 Years

EDUCATION: A.A.S., Alfred State College – Survey Technology 1978

REGISTRATION: State of New York, 1986

EXPERIENCE:

Mr. Wheeler is an experienced land surveyor with over 35 years of expertise in all phases of surveying. Mr. Wheeler is in charge of all aspects of survey including computations, research and drafting for Boswell's Albany Office. Mr. Wheeler is responsible for overseeing the scheduling, equipping and time management of field parties, obtaining all information pertinent to survey projects, maintaining field and office supplies, job pricing and general instruction.

Mr. Wheeler has had hundreds of surveys under his supervision, ranging from preparation of ROW and acquisition maps, to complex boundary and topographic surveys for large developers and governmental agencies.

Representative projects include:

- **New York State Office of Parks, Recreation and Historic Preservation.** Three (3) year term agreement surveying contract state wide for lands owned or to be purchased by the Office of Parks and Recreation. Relevant projects under this contract including.
 - **Odyssey Farm, Copake, New York.** Boundary survey of a 310-acre parcel purchased by the Office of Parks and Recreation in the town of Copake, New York
- **New York State Office of General Services.** Three (3) three (3)-year Survey Term Agreement for the New York State Office of General Services (1998 – 2007). Topography, boundary, utility and acquisition mapping for numerous NYSOGS projects. Relevant projects under these agreements are as follows:
 - **D.C.S. Training Academy, Albany, New York** – This work consisted of boundary, topographic and utility survey of the entire facility which totaled 37± acres. Underground utility mark outs were performed by Utility Survey Corp with **Boswell** providing the horizontal and vertical location of the utilities.
 - **Fishkill Correctional Facility, Beacon, New York** – This work consisted of a topographic and utility survey of the entire facility including Camp Beacon which totaled 500± acres. The aerial mapping was performed by Sanborn with **Boswell** providing the ground control.
 - **Capnet Schenectady Build Project – Various Streets in the City of Schenectady, New York** – **Boswell** performed right of way and utility surveys on over two (2) miles of roadway in the City of Schenectady. Major streets included in this project were Broadway, State and Clinton. The purpose of this survey was for the design of a fiber optic line to be built in order to service the new NYSDOT Region 1 Office Building in Schenectady.
- **New York State Thruway Authority.** Survey Term Agreement for the New York State Thruway Authority. Topography, boundary, utility and acquisition mapping for numerous Thruway projects.

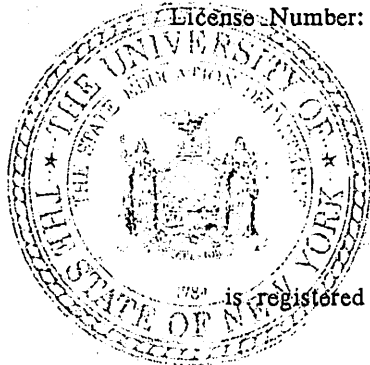
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PAUL J. McEACHEN CULTURAL RESOURCES TASK LEADER (36 CFR 61)

YEARS OF EXPERIENCE:

With this firm:

1998-Present

With other firms: 3

EDUCATION:

MA 1996

Memorial University
Anthropology

BA 1993

University of Windsor
Anthropology and
Classics

PROFESSIONAL

TRAINING:

CRM Essentials:

Restoring Your Skills,
Trenton, NJ
October 2005

Section 106 Workshop,
Albany, NY
November 2008

PROFESSIONAL

REGISTRATION:

Register of Professional
Archaeologists

PROFESSIONAL

SOCIETIES:

Archaeological Society of
New Jersey

Society for American
Archaeology

Eastern States
Archaeological
Federation

Middle Atlantic
Archaeological
Conference

Professional Experience Summary:

Paul J. McEachen provides technical oversight on most archaeological projects undertaken in New York. Mr. McEachen has served as a Principal Investigator on all phases of archaeological investigations, and specializes in prehistoric archaeology. Mr. McEachen has prepared and directed cultural resources surveys in accordance with Section 106 of the National Historic Preservation Act, NEPA, and various municipal and state cultural resource regulations. He exceeds the qualifications set forth in the Secretary of Interior's Standards for Archaeologists [36 CFR 61].

Representative Project Experience:

Hendler Property Development, Goshen Township, Orange County, NY (Sponsor: Epic Orange, LLC) Provided oversight for a Phase I archaeological survey conducted for the 35-acre property in compliance with the State Environmental Quality Review Act (SEQRA). One potentially significant prehistoric archaeological site was identified. Developed a scope of work for a Phase II archaeological survey in consultation with the New York State Office of Parks, Recreation, and Historic Preservation (OPRHP).

Target Rock National Wildlife Refuge, Town of Huntington, Suffolk County, NY (Sponsor: USFWS) Provided oversight for a Phase I archaeological survey for a new observation platform and trail at Target Rock National Wildlife Refuge. The archaeological survey was performed in compliance with Section 106 of the National Historic Preservation Act. Background research determined that the Area of Potential Effects (APE) had high sensitivity for pre-contact archaeological resources and a high sensitivity for American Revolutionary-related archaeological resources. Prehistoric quartz debitage and several historic artifacts dating from the late nineteenth to early twentieth century were identified. Federal and state archaeological site forms were prepared. In consultation with the US Fish and Wildlife Service, the project was redesigned to avoid the archaeological site.

Marine Corps Reserve Center Syracuse, City of Syracuse, Onondaga County, NY (Sponsor: Department of Navy) Directed a Phase IB archaeological survey at the Marine Corps Reserve Center in Syracuse, New York. Subsurface testing was performed in areas previously identified as having prehistoric and historic archaeological sensitivity. The archaeological testing identified areas of disturbance and a limited amount of nineteenth- and twentieth-century artifacts were found in low densities and from disturbed contexts. No historic archaeological features were identified and the historic artifacts were not considered potentially significant. No prehistoric artifacts were recovered.

Hartley Road Substation, Town of Goshen, Orange County, NY (Sponsor: Orange and Rockland Utilities) Provided oversight for a Phase IA and IB archaeological survey for the proposed construction of the Hartley Road Substation. The work was performed to comply with SEQRA. As a result of the survey the APE was determined to have a high potential for prehistoric archaeological resources and a low potential for historic archaeological resources. The Phase IB archaeological survey identified no significant archaeological resources. No further survey was recommended and the OPRHP concurred.

Proposed Project Assignment

Team Leader-Geotechnical, Pavement and Scour

Years of Experience

28

Professional Registration

Professional Engineer:
New Jersey, Delaware,
Pennsylvania and New York

Education

B.E. – Civil Engineering,
Rajasthan University, India,
1980; MSCE, Southern
Illinois University, 1988; and
D.Eng. (Geotechnical/Geo-
environmental), NJIT, 2001

Training

FHWA (NHI): Ground
Modification Technique ,
Geosynthetics for
Transportation facilities, Pile
Foundation Design and
Construction , Drilled Shaft
Design and Construction ,
Soil Nailing Design and
Construction , Scour
Evaluations for the Highway
Bridges, LRFD Geotechnical
Substructure Design

Publication/Presentation

Various Geotechnical Papers
presented at the National and
International Conferences

Professional Affiliation

President (09-10) ASCE
New Jersey Section, Past
President ASCE South NJ
Branch, Advisor-IAC; The
College of New Jersey.

Key Qualifications

Dr. Karna brings over 28
years of experience in the
management, design and
construction of highway
embankments and
pavements, and bridge
foundation work primarily for
public transportation projects

- Geotechnical investigation, foundation Design, hydraulic modeling and scour evaluation for the GSP Patcong Creek bridge widening and rehabilitation. Provided foundation evaluation of the existing bridge, recommendations for the widening portion of bridge. Also provided the foundation recommendations for the roadway widening portion. Developed hydraulic modeling, evaluated scour values and scour countermeasures. Chien-kuo, 732-247-0900 (2009-1012)
- Geotechnical Investigation and foundation design for New Jersey Turnpike widening project exit 6 to 9. Provided preliminary geotechnical engineering service for the entire widening and final geotechnical engineering service and foundation recommendations for the Section 7 widening. The project consists of many complex bridges, culvert and high retaining walls. Various soil modification techniques were evaluated and employed. Scour and countermeasure design evaluated for the culvert structure. Underdrains under pavement were evaluated. John Keller, 732-247-0900,(2008-2009)
- Geotechnical engineering and foundation recommendation report for the Seaview Drive Secaucus Transfer project. Complex geotechnical evaluations and recommendations were provided for two miles of connecting roadway crossing through wetlands. Innovative geotechnical solutions such as VCC, surcharge, wick drains, geotextiles, two stage MSE retaining walls and various soil modification techniques were evaluated and recommended. The structures were supported on piles and drilled shafts. Scour and countermeasures evaluated for the structures. Geotechnical instrumentations designed and results evaluated. Steve Buente, 732-247-0900,(2002-2004)
- Geotechnical Quality Control Engineer for the NJ Turnpike extension (proposed Route 92). Work involved the overall review/quality control of all geotechnical and foundation design recommendations for entire sections. Steve Buente, 732-247-0900(1999-2000)
- New Jersey Turnpike new interchange with US Route 130. This involved geotechnical investigation and foundation designs for bridges, structures, electronic toll lanes, utility buildings and roadways utilizing soil improvement techniques. Geotechnical instrumentations designed and evaluated. Pavement design. Construction cost: Steve Buente,732-247-0900, (1996-1998)
- I-95/Scotch Road improvement. First integral abutment bridge design project for the state of NJ. A unique foundation system using steel piles and rock socketed piles and spread footing (pier only) was designed to satisfy the bridge integral abutment design. Hydraulics modeling and scour/countermeasure. Pavement design. Kuangyu Yang, 609-530-5302 (1996-1999)
- Geotechnical investigation and foundation design for the Route 21 viaduct over Amtrak, NJ Transit, Route I-78 and the Conrail Waverley Yards in Newark, NJ. This project for the NJDOT included the development of the subsurface investigation plan, management of the soil boring contract and the geotechnical analysis and foundation recommendations for the viaduct, interchange bridges and embankment stability. Embankment pre-loading and structure seismic design are evaluated and recommended for the project. Supervision and evaluation of Static and Dynamic (PDA) pile load test results. Pavement design and rehabilitation. Const. cost: \$180M, Bruce Riegel,609-530-4232(1993-1997)
- Geotechnical investigation, foundation design for the sound barrier wall for the NJ Turnpike between exit 9 and 10, and Newark Bay extension. Steve Buente, 732-247-0900, (1994-1995)
- Geotechnical investigation and foundation design for Route 49 bridges over Alloways Creek and Salem River in Salem County, NJ. The bridge is a three span structure supported on 130 feet long eight feet diameter drilled shafts designed in a high velocity tidal area. A unique multi staged load testing program was designed & implemented for the first time on an NJDOT project. Soft embankment stabilization and soil improvement techniques were designed using geotextile, wick drain and staged surcharging techniques. Geotech instruments designed, monitored. Mike Kasbekar, 609-530-6627,(2003-2006)

- Geotechnical investigation, foundation design, scours evaluation/countermeasure design and pavement design of **S. Salem St. Bridge (County Rd of Morris)**. Hardev Dave 609-530-3594,(2006-2009)
- Geotechnical investigation and foundation recommendations for Rt.70 Over Manasquan River. Unique floating foundation schemes on pipe piles were utilized. Soil modification techniques were employed. Hydraulic modeling and scour evaluation. Pavement design and rehab. Mark Dietrich, 609—530-2519,(2004-2008)
- Geotechnical engineering and management of scour value and countermeasure design of 44 state bridges located mostly in northern New Jersey. Countermeasures at many bridges are under construction. In depth scour evaluation of more than 50 bridges throughout New Jersey. Scott Thorn, 609-530-6358, (2002-2009)
- Reviewed and tested the draft LRFD geotechnical design manual for deep foundations for FHWA. Recommendations and suggestions were provided for the final version before the manual is implemented by AASHTO. Kuangyu Yang, 609-530-5302,(2006)
- Geotechnical investigation, foundation design, hydraulic modeling, scour evaluation and pavement design of **Texas Road bridge (County Rd of Monmouth)**. Kuangyu, Yang 609-530-5302,(2000-2001)
- Geotechnical investigation, foundation design, hydraulic modeling, scour evaluation and pavement design of **Amwell Road bridge (County Rd of Somerset)**. Kuangyu, Yang 609-530-5302,(2005-2007)
- In depth stage II scour evaluations for 10 NJ State owned bridges in 2002 and 10 State owned bridges in 2004. Sal Baig 609-530-5606, (2002-2004)
- Geotech investigation and design inputs for GSP Mallika River Bridge. (2008)
- Geotechnical engineering and foundation design of Hartford Road Bridge (county bridge of Burlington). Pile foundations and soil modification techniques were used. Kiong Chan, 609-530-5354,(2000-2001)
- Geotechnical engineering and foundation recommendation for the Route 73 Meadow Road intersection and **Main Street (Burlington Co. Rd.)**. Foundations on shallow and deep foundation scheme. Extensive settlement on wetlands was evaluated. Pavement design and scour evaluation. Kiran Patel,609-530-2463,(2004-2009)
- Route I-287 noise barrier walls and sign structures, consisting of about four miles of concrete and/or timber noise barrier walls and seventeen sign structures in Somerset and Morris Counties. The work included performing Soil borings and preparing a geotechnical recommendations report.
- Geotechnical investigation and foundation design for NJDOT's Route I-78 (23) Connector, an Urban Interchange improvement project. Developed subsurface investigation plan, administered the boring program and foundation recommendations, roadway pavements and embankment design. Evaluated the existing bridge structure foundations. Kuangyu Yang, 609-530-5302,(1996-1997)
- Geotechnical investigation and foundation recommendations for replacement of the Whitehead Road bridge over electrified Amtrak's Northeast Corridor. Extensive coordination with NJ Transit, Conrail and Amtrak was reqd. The project involved extensive proprietary retaining walls. Kuangyu Yang, 609-530-5302,(1997-1998)
- Responsible for the levee/flood wall and tieback anchored bulkhead designs for the Passaic River Flood Protection Project for the USCOE. The project included Joseph G. Minish Park development along the Passaic River in Newark. Construction cost estimate: \$ 120 M. Paul Tuminello,212-264-0437,(1994-1997)
- I-295 (3) ramp widening in wetland area, which involved the use of surcharging with vertical strip drainage. The design included the use of soil reinforcement for steep slope stabilization and field instrumentation for performance monitoring. Tom Howell, 856-235-7200,(1996-1997)
- Geotechnical engineering/foundation design for the railroad station and platforms, the pedestrian bridge, the bus maintenance facility and the parking lots and roadways for the NJ Transit Hamilton Complex. Pavement design for roadways. Construction cost \$40M.Mike Sidani, 609-807-9500, (1993-1994)
- Widening for Route 31 in Hunterdon County which included special Surface/Subsurface drainage and sinkhole remediation techniques. GPR testing review for the roadway design and rehabilitation. Drew Markewitz, 973-898-0300, (1994-1995)

Lippincott Engineering, Riverside, NJ,Overseas Experience including Graduate Studies (1980-1993)

- Established subsurface investigation programs, supervised drilling crews, created laboratory testing programs and prepared geotechnical reports for numerous projects. Analyzed landfill cover slope stability utilizing geofabrics and used various soil improvement techniques. Included were commercial, industrial and institutional facilities, underground pipe crossings, bridges and roadways, water tanks, water treatment facilities, landfills and other structures. Evaluated and recommended rehabilitation of existing Dams and Buildings. As Resident Geotechnical Quality Control Engineer, supervised the geotechnical aspects of landfill construction of Salem County Landfill expansion project. Designed and supervised earthen and concrete dams in Nepal. Coordinated with various international agencies and consultants.

LJUPCHO T. NAUMCHEVSKI, P.E.
PROJECT MANAGER



YEAR OF EXPERIENCE: 25 years

EDUCATION: BSCE, Kiril and Metodij University, Skopje, Macedonia

REGISTRATION: Professional Engineer – New York, Delaware, Pennsylvania,
Connecticut, New Jersey

DIVING CERTIFICATIONS:

PADI Certified Open Water Diver
BUE On-The-Job Training in Commercial Hard Hat Diving Techniques
BUE On-The-Job Training in Underwater Inspection of Bridges
Confined Space Entry – OSHA 29 CFR 1910.146 (g) (4)
ADCI (Association of Diving Contractors International) Surface-Supplied Air Diver Supervisor I.D.
489, Certification No. 44197
40-Hour Health and Safety for Hazardous Waste Site Investigation Personnel
Safety Inspection for In-Service Bridges – FHWA National Highway Institute Certificate of Training
(80 hr. course)
2005 Bridge Inspection Workshop, New York State Department of Transportation (5-Day Course)
2005, 2007, 2009, 2010, 2012 & 2014 Annual Bridge Inspector's Training, New York State Department
of Transportation (80 hrs. total)
2007 Inspecting Steel Bridges for Fatigue, New York State Department of Transportation (8 hrs.)
2010 Behavior Failure Mechanisms and Inspection of R/C and Prestressed Concrete Bridges, New York
State Department of Transportation (8 hrs.)

EXPERIENCE:

Mr. Naumchevski is a key staff member of Boswell Underwater Engineering (BUE), a division of Boswell Engineering specializing in the investigation and structural evaluation and design of marine infrastructures. As a BUE staff member, he serves in the capacity of project manager, chief engineer diver, and hydrographic/fathometric surveyor and has physically performed underwater diving inspections on the submerged components of more than 720 bridges spanning waterways and conducted over 420 hydrographic/fathometric surveys. He has gained substantial experience over a 23 year span on diving projects requiring underwater inspections of port and harbor facilities, bridge substructures, piers, relieving platforms, waterfront bulkheads, submerged pipeline installations, and offshore platforms, logging over 4100 hours underwater on inspection assignments. Concurrent with this, he has developed a handsome track record of hydrographic/fathometric surveying experience, a substantial amount of which involved scour investigations of bridges spanning waterways and pre-and-post dredging surveys.

In addition, his background includes structural design and analysis of bridges, box culverts, and marine facilities, as well as bridge, pier, and relieving platform rehabilitation design and rating. He is skilled in commercial hard hat diving techniques, underwater photographic and videotape documentation, ultrasounding of metal structural elements for determining section loss, and hydrographic surveying techniques using electronic range-azimuth and differential GPS systems. He is an expert at identifying and evaluating the extent of biodeterioration caused by marine borer intrusion in submerged timber structures through core sampling techniques. He is also actively engaged in BUE's in-house marine

LJUPCHO NAUMCHEVSKI, P.E.

borer research test board program, which seeks new ways of controlling marine borer intrusion in timber structures.

A sampling of Mr. Naumchevski's significant projects working as a Project Manager, Team Leader, and Project Engineer includes:

- ***PANY&NJ QAD Division On-Call Waterfront Condition Survey Contracts.*** On-Site P.E. Diver/Team Leader performing condition surveys, structural evaluations, and repair designs on over 51 major assignments for the Port Authority of New York & New Jersey Quality Assurance Division involving shipping berths, piers, bulkheads, and relieving platforms comprised of timber, steel and reinforced concrete. Some of the facilities included Port Newark and Port Elizabeth, NJ, the New Jersey Auto Marine Terminal, Brooklyn Piers 9A and 9B, NY, Howland Hook Marine Terminal, NY, Manhattan Ferry Terminals, and Airports. (Five (5) Consecutive Term Agreements 405-00-02, 2000-2002; 405-03-007, 2003-2005; 405-06-018, 2006-2008; 405-09-025, 2009-2011; 405-12-022, 2012-2015) (January '00 - Present).
- ***PANY&NJ Materials Engineering Division (MED) On-Call Waterfront Technical Service Contracts.*** On-Site P.E. Diver/Team Leader on over 200 inspection assignments involving port and harbor facilities, shipping berths, and waterfront structures owned by the Port Authority of New York and New Jersey. One-hundred ten (110) of these assignments involved underwater construction inspection. Twelve (12) Consecutive Term Agreements 426-89-14 (1989), 410-90-007M (1990-1991), 410-92-003M (1992-1993), 426-94-010 (1994), 426-95-001 (1995), 426-96-009 (1996-1997), 426-98-012 (1998), 426-99-003 (1999-2002), 426-03-015 (2003-2005), 426-06-006 (2006-2008), 426-09-012 (2009-2012), 426-13-058 (2013-2015)) (February '92 – Present).
- ***NYS DOT Regions 1 through 11 Bridge Diving Inspections & Fathometer Surveys.*** Project Manager & On-Site P.E. Diver/Team Leader on thirteen (13) consecutive NYS DOT Bridge Diving Contracts during the last 16 years (including five (5) overlapping contract agreements) involving routine underwater inspections of 1,500 bridge structures (5,360 SSU) and fathometer surveys of an additional 720 bridges located in the Eastern, Western, and Southern Regions of New York State. New York State Department of Transportation. (April '91 - Present).
- ***MTA Metro-North Railroad Bridge Undergrade Inspections.*** Senior Engineer Diver/Team Leader on project involving underwater and above water inspections of 26 railroad bridges supporting four (4) commuter rail lines. MTA Metro-North Railroad.

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NAUMCHEVSKI LJUPCHO TODOR
BOSWELL ENGINEERING
330 PHILLIPS AVENUE
SOUTH HACKENSACK NJ 07606-0000

is registered to practice in New York State through 04/30/2016 as a(n)
PROFESSIONAL ENGINEER

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MICHAEL J. GANAS, P.E.
DIVING TASK LEADER



YEARS OF EXPERIENCE: 33 years

EDUCATION: BSCE, Cornell University
MSCE, New Jersey Institute of Technology
MBA, Fairleigh Dickinson University

REGISTRATION:

Professional Engineer - New Jersey, New York, Connecticut, Maine, Pennsylvania,
North Carolina, Florida, Virginia, and Arkansas
Professional Planner - New Jersey

DIVING CERTIFICATIONS:

Deep Sea Commercial Diver - Coastal Diving Academy
SSI Advanced Open Water Scuba Diving Instructor
NAUI Advanced Open Water Scuba Diver
Civil Defense Scuba Rescue Squad
Confined Space Entry – OSHA 29 CFR 1910.146 (g) (4)
ADCI (Association of Diving contractors International) Surface-Supplied Air Diver I.D. 379,
Certification No. 17897
Underwater Inspection and Repair of Bridges, George Washington University
2006 Bridge Inspection Workshop, New York State Department of Transportation (5-Day Course)
2006 & 2008 Annual Bridge Inspector's Training, New York State Department of Transportation (4.5
hrs. ea.)
2011 & 2013 Annual Bridge Inspector's Training, New York State Department of Transportation (14.5
hrs. ea.)
2011 Inspection Steel Bridges for Fatigue, New York State Department of Transportation (6 hrs.)

EXPERIENCE:

Mr. Ganas has over 33 years of extensive experience in management and administration of more than 900 marine engineering and construction projects. He has also managed numerous projects entailing rehabilitation/repair design of dam structures. He is the Managing Vice-President of Boswell Underwater Engineering, a division of Boswell Engineering specializing in the investigation, structural evaluation, and design of marine structures and hydrographic/fathometric surveying of waterway bottoms. With a substantial background on civil, structural, and construction engineering projects, he is skilled in project management and administration, cost estimating/analysis, project planning and control, and possesses a strong background in marine construction techniques. Having performed over 400 hydrographic surveys, hydrography and fathometric charting techniques are among his forte, including scour analysis and scour remediation of bridge substructures, subaqueous mapping locating of utility crossings, and contour mapping of channel improvement and reprofiling projects.

With over 3,800 hours logged underwater as a construction and inspection diver, Mr. Ganas has considerable insight relating to factors affecting subaqueous construction and inspection. This experience has manifested itself in published technical material which he has authored.

MICHAEL J. GANAS, P.E., P.P.

A sampling of Mr. Ganas' significant projects includes:

- ***PANY&NJ Waterfront Condition Surveys Technical Services on Call-In Basis for both MED & QAD.*** Project Manager on over 348 projects (spanning 17 consecutive term agreements) conducted on various port and harbor facilities and marine structures such as piers, wharves, bulkheads, relieving platforms, intake screens, and sluice gates. Projects involved underwater condition surveys, repair designs, and construction inspection of concrete, steel, and timber waterfront facilities, often including hydrographic/fathometric surveys of adjacent waterway bottoms. Inspections frequently utilized core sampling, NDT ultrasounding instrumentation, electronic differential GPS or range-azimuth hydrographic survey systems, videotape and photographic documentation. Fifteen (15) consecutive contracts; Term Agreements 426-89-14, 40-90-007M, 410-92-003M, 426-94-010, 426-95-001, 426-96-009, 426-97-007, 426-98-012 & 426-99-003, 426-06-006, 426-09-012, 405-00-02, 405-03-007, 405-06-18, 405-09-025, 405-12-022. Port Authority of New York and New Jersey (1989 - Present).
- ***PANY&NJ Waterfront Condition Surveys Technical Services on Call-In Basis for both MED & QAD.*** Project Manager on over 348 projects (spanning 17 consecutive term agreements) conducted on various port and harbor facilities and marine structures such as piers, wharves, bulkheads, relieving platforms, intake screens, and sluice gates. Projects involved underwater condition surveys, repair designs, and construction inspection of concrete, steel, and timber waterfront facilities, often including hydrographic/fathometric surveys of adjacent waterway bottoms. Inspections frequently utilized core sampling, NDT ultrasounding instrumentation, electronic differential GPS or range-azimuth hydrographic survey systems, videotape and photographic documentation. Term Agreements 426-89-14, 40-90-007M, 410-92-003M, 426-94-010, 426-95-001, 426-96-009, 426-98-012 & 426-99-003, 426-03-015, 426-06-006, 426-09-012, 426-13-058, 405-00-02, 405-03-007, 405-06-18, 405-09-025, 405-12-022. Port Authority of New York and New Jersey (1989 - Present).
- ***NYS DOT Regions 1 through 11 Bridge Diving Inspections & Fathometer Surveys.*** Director & Quality Control Engineer on 15 contracts (5 overlapping and concurrent) involving underwater inspections of 1,712 water-spanning bridges (6,887 SSU) and 842 fathometric surveys of waterways through 2012. New York State Department of Transportation. (January '91 - Present).
- ***Fathometer Survey of the Atlantic Beach Bridge at Atlantic Beach, New York.*** Project Manager on project involving fathometric surveys of the Atlantic Beach Bridge owned by the Nassau County Bridge Authority. Fathometric data was compared to the previous surveys performed by Boswell to determine if any significant changes had occurred. (2012, 2011, 2009).
- ***BICC Cables - Dock Facility North and West of Building No. 8 Hudson River Stage, Point Street Facility, Yonkers, New York.*** BUE prepared a Rehabilitation and Design Concept of the entire dock facility connecting Building No. 19 with the Hudson River Stage Building (EPRI Lab). Applied for permit allocation for rehabilitation of the dock facility. Work was performed in 2001.

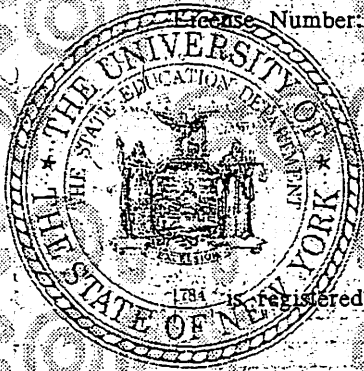
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GANAS MICHAEL J
BOSWELL ENGINEERING
330 PHILLIPS AVE
SOUTH HACKENSACK NJ 07606-0000

is registered to practice in New York State through 06/30/2018 as a(n)
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LICENSEE/REGISTRANT

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ACTING COMMISSIONER OF EDUCATION

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FRANK J. ROSSI, LSRP
PERMITTING TASK LEADER



YEARS OF EXPERIENCE: 32 Years

EDUCATION: MS, Chemical Engineering, New Jersey Institute of Technology
BS, Chemistry, Fairleigh Dickinson University

REGISTRATIONS: NJDEP Licensed Site Remediation Professional (LSRP)

CERTIFICATIONS:

NJDEP Licensed for UST – Installation, Testing, Closure and Subsurface Evaluation
OSHA 40-Hour HAZMAT & 8-Hour Annual Refresher
OSHA 10-Hour Construction Safety
AHERA Asbestos Inspector/Management Planner
Confined Space Entry
EPA/HUD Certified Lead Inspector
Certified Wetland Delineator

EXPERIENCE:

Mr. Rossi has over 30 years of experience as a project manager/senior environmental/chemical engineer. He has a strong diverse background in chemical, civil and environmental engineering. Mr. Rossi also has extensive hands-on experience in all types of field applications, including but not limited to, Preliminary Assessments (PA), Site/Remedial Investigations (SI/RI), underground storage tank (UST) removals and installations, remedial investigations/feasibility studies (RI/FS) and remedial actions. In addition to the aforementioned Mr. Rossi's previous chemical engineering experience at several international firms makes him uniquely suited for the design and operation of soil and groundwater remediation systems.

For over two decades Mr. Rossi has also specialized in state and federal permit acquisition, wetlands delineation, as well as coastal and waterfront development projects. Mr. Rossi has performed multi-disciplined environmental permitting efforts for numerous clients. His responsibilities include wetlands delineation and assessment as well as floodplain management and flood mitigation. He has experience in many areas of coastal design projects including the preparation of state and federal environmental permits for the US Army Corps of Engineers (USACOE); New York State Department of Environmental Conservation (NYSDEC); NY State Historic Preservation Office (SHPO); New Jersey Department of Environmental Protection (NJDEP) including Coastal Area Facility Review Act (CAFRA), Waterfront Development, Coastal and Freshwater Wetlands; and US Fish and Wildlife Service.

His experience includes:

- Project manager for the initial site/remedial investigation of the Port Authority's PATH tunnels following the World Trade Center (WTC) attack. Managed two (2) assessment teams traveling through the tunnels from Jersey City (Exchange Place) beneath the Hudson River to the former

FRANK J. ROSSI, LSRP

World Trade Center station at Ground Zero. The project was designed to investigate the tunnels for PCBs released from the WTC electrical transformers, petroleum hydrocarbons from the building's ruptured underground storage tanks (UST) as well as the presence of any other contaminants washed into the tunnels by both the fire fighting and dust suppression efforts at Ground Zero.

- Project Manager for the environmental permitting portion of the Southern New Jersey Light Rail Design/Build/Operate/Maintain (DBOM) project. This project involved the construction of a 35-mile section of railroad between Camden and Trenton New Jersey. The railroad passed through numerous environmentally sensitive wetland areas requiring Mr. Rossi's expertise in identifying the various State and Federal permits required for construction. A brief list of the permits identified and obtained for this project included NJDEP Freshwater Wetlands, ACOE Coastal Wetlands and US Coast Guard.
- Project manager for the preparation of engineering and environmental plans for the Riverview Club and Towers, a 1-million square foot multi-use, residential, hotel, retail, banquet facility and marina on the Hackensack waterfront. Conducted all phases of the project's wetland assessments, delineations, and permitting. Included the legalization of 3-acres of fill on wetlands through an interagency negotiation with the NJMC, ACOE, NJDEP, National Oceanic and Atmospheric Administration (NOAA) and the US Environmental Protection Agency (EPA).
- Project manager for Yohann Plaza, a project that included preparing a site plan for a 100,000-square foot retail shopping center and 25,000 square foot restaurant along the Hudson River waterfront. Prepared the waterfront development permit in compliance with the NJDEP coastal zone policies. Also prepared an ACOE Section 404 B program permit for the construction of a sea wall along the Hudson River as well as dredging and existing pier removal permits in conjunction with the EPA.
- Project manager for the decommissioning and demolition of a former Nike missile site in Mahwah, NJ. Performed a detailed environmental investigation for USTs, PCB containing electrical transformers and capacitors, asbestos and lead based paint. Once the site's environmental concerns were identified, managed the remedial action of hazardous all materials including PCB transformers and USTs and the abatement of asbestos and lead based paint. Following the hazardous materials removal, designed a treatment system to dewater the site's missile silos.
- Project manager for the environmental portion of the reconstruction of a bridge over the Hirschfeld Brook in New Milford, New Jersey. Mr. Rossi's expertise was required on an emergency basis when petroleum contaminated groundwater was encountered during the excavation of the bridge's abutments. Since the excavation required continuous dewatering, Mr. Rossi designed a groundwater treatment that included a Frac Tank as an oil/water separator and large granulated activated carbon units. Due to the system's effectiveness, the NJDEP granted the project an expedited permit that allowed the treated water to be discharged to the brook. The treatment system and subsequent discharge approval provided a significant cost savings and minimized serious project over-runs and delays.
- Project manager for the Preliminary Assessment (PA) and Site Investigation (SI) and emergency remedial action (RA) at the Garden State Industrial Park warehouse complex. Performed and authored a detailed PA report; identified four (4) previously undocumented USTs through the use of ground penetrating radar (GPR); conducted the emergency removal of the four (4) leaking USTs in close proximity to facility and municipal production wells; performed SI following tank removal; field designed contamination interceptor systems utilizing geosynthetics.

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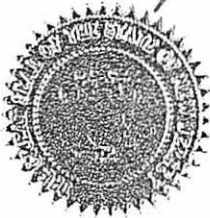



Licensed Site Remediation Professional

The New Jersey Site Remediation Professional Licensing Board, hereby certifies

FRANK J ROSSI JR

*as a Licensed Site Remediation Professional in the State of New Jersey
pursuant to the Site Remediation Reform Act, N.J.S.A. 58:10C-1 et seq.*




MARK J. PEDERSON
Chairman, SRPLB

6/4/14

DATE

BRUCE D. BOSWELL, P.E.
CONSTRUCTION MANAGEMENT TASK LEADER



YEARS OF EXPERIENCE: 34 Years

EDUCATION: BSCE, New Jersey Institute of Technology

REGISTRATION:

Professional Engineer - Arkansas, Florida, Georgia, Illinois, New York, New Jersey,
Vermont and Virginia
NAUI - Diving Certification

EXPERIENCE:

Mr. Boswell has extensive experience relating to the design and construction of various state, interstate county and private engineering projects. Mr. Boswell's experience includes transportation engineering, site development, bulkhead and pier reconstructions, and the construction management and supervision of highway and bridge construction projects. He has served as Resident Engineer on various assignments and as the Project Manager/Coordinator in charge of construction projects for Vermont, New York State Department of Transportation (NYSDOT), New York State Thruway Authority (NYSTA) various county and local projects.

Mr. Boswell, the firm's acting manager of both the Albany and White Plains, New York offices, has extensive experience in both construction and design for major highway and bridge projects. Mr. Boswell also guides the firm in the handling of field problems and serves as the primary reference for all Resident Engineers, available to immediately answer and/or coordinate a rapid response to technical questions from construction engineering field staff. Mr. Boswell has been responsible for construction projects in excess of one billion dollars.

Mr. Boswell has received training in commercial hard-hat diving techniques and underwater inspection of bridges and dams. His experience in this area includes investigation and structural evaluation of marine infrastructures, dams and bridges spanning waterways.

Representative projects under Mr. Boswell's direction include:

- Reconstruction of I287/I87. Principal-in-Charge of one hundred eighty million dollar construction project for the NYSTA and NYSDOT. To date this project is one of the largest that the NYSTA has ever let. Project includes replacement of twelve (12) bridges, major rock cuts, sound wall installation and other relative highway work. Boswell was also responsible for all survey for this project and revised all the modeling so that accurate quantities for the project could be obtained. This project is located in a highly traveled area in which public relations had to be utilized to keep the traveling public inform of the day to day conditions.
- NYSOGS Term Agreement. Principal-in-Charge from NYSOGS surveying term agreement. Boswell has successfully completed two (2) three year term agreements and has been selected to begin a third (3rd) three year term agreement for surveying services. This work includes extensive utility location and topographic surveys in various prisons in eastern portion of New York State.
- Albany Parking Authority. Principal-in-Charge of the Quackenbush Square Garage. This ten million project included all site engineering, survey, mechanical and electrical along with construction inspection for the construction of a seven (7) story nine hundred space parking structure located in the City of Albany. This project also included extensive archeological site with Boswell coordinating construction around the sensitive areas.

BRUCE D. BOSWELL, P.E.

- Albany County Department of Public Works. Principal-in-Charge for the survey, design and construction supervision for the highway and intersection reconstruction of 25 miles of county roads along CR 154 Osborne Road, CR 308 New Scotland Road, CR 252 Knox Cove Road, and CR 103 Blodgett Road.
- Albany County Department of Public Works. Principal in-Charge for the survey, design and construction supervision for the rehabilitation/replacement of five (5) bridge structures: Switzkill Road CR-1 Bridge over the Fox Creek, Cole Hill Road CR-2 Bridge over the Fox Creek, South Albany Road CR 53 Bridge over the Onesquethaw Creek, Snyder Bridge Road CR 102 Bridge over the Onesquethaw Creek, and Krumkill Road CR 306 Bridge over the Normanskill Creek.
- NYSTA - Berkshire Spur. Construction inspection for roadway rehabilitation of MP BS17.9 to 24.3, east and westbound, and safety improvements at B-3 interchange.
- County of Albany, New York. Construction inspection for the reconstruction of 17 miles of county roads along CR 253, 308, and 108; and four (4) bridges along CR 10, 53, 2 and 1.
- County of Albany, New York - Osborne Road in the Town of Colonie. Construction inspection for the reconstruction of approximately five (5) miles of roadway with intersection signalization and improvements.
- NJHA - Garden State Parkway Asbury Toll Plaza Widening. New bridge construction, pavement overlay, guide rail installation and construction of new administration building.
- NJHA - Garden State Parkway Essex Toll Plaza Widening. Pavement overlay, median barrier replacement and various drainage improvements.

AFFILIATIONS:

American Public Works Association (APWA)
American Society of Civil Engineers
Association of Bridge Contractors and Designer (ABCD)
New York Association of Consulting Engineers, Inc. (NYACE)
Society of Professional Engineers

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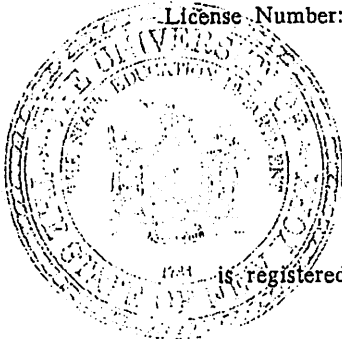
UPON RECEIPT OF THIS REGISTRATION CERTIFICATE YOUR PREVIOUSLY ISSUED REGISTRATION CERTIFICATE IS NULL AND VOID. PLEASE DESTROY THE PREVIOUSLY ISSUED REGISTRATION CERTIFICATE.

SEE BACK FOR IMPORTANT INFORMATION

The University of the State of New York
Education Department
Office of the Professions
REGISTRATION CERTIFICATE
Do not accept a copy of this certificate

License Number: 067219-1

Certificate Number: 8329611

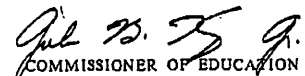


BOSWELL BRUCE DAVID
799 MADISON AVE.
ALBANY NY 12208-0000

is registered to practice in New York State through 08/31/2016 as a(n)
PROFESSIONAL ENGINEER

LICENSEE/REGISTRANT

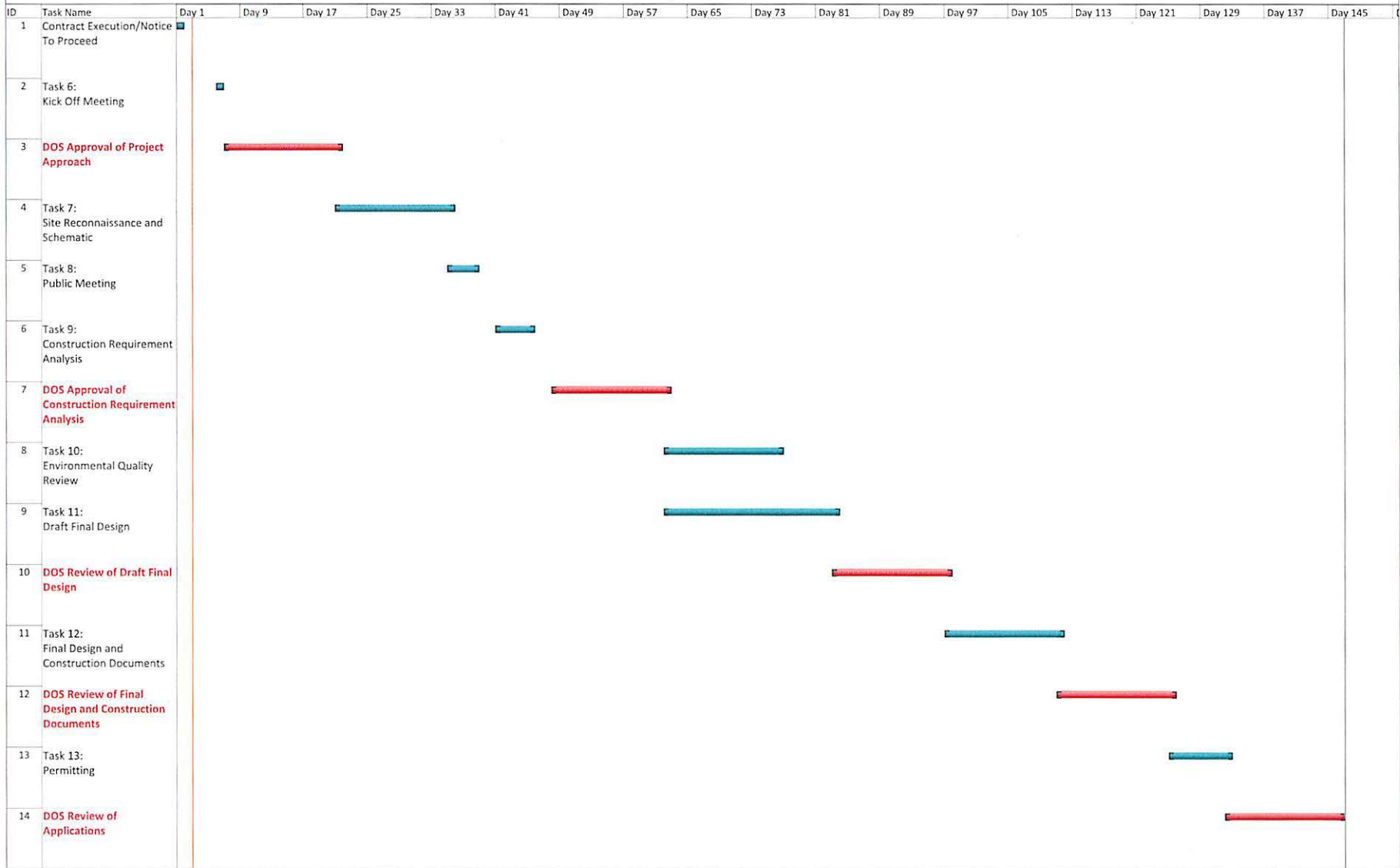

EXECUTIVE SECRETARY


COMMISSIONER OF EDUCATION


DEPUTY COMMISSIONER
FOR THE PROFESSIONS

This document is valid only if it has not expired, name and address are correct, it has not been tampered with and is an original - not a copy. To verify that this registration certificate is valid or for more information please visit www.op.nysed.gov.

Full Design and Construction Plans for the Repair of Collapsed Bulkhead Section Along Byram River
Village of Port Chester
Anticipated Schedule



Task		Project Summary		Inactive Milestone		Manual Summary Rollup		Deadline	
Split		External Tasks		Inactive Summary		Manual Summary		Progress	
Milestone		External Milestone		Manual Task		Start-only			
Summary		Inactive Task		Duration-only		Finish-only			



Verification Searches

The information furnished at this web site is from the Office of Professions' official database and is updated daily, Monday through Friday. The Office of Professions considers this information to be a secure, primary source for license verification.

Business Entity Information *

02/27/2015

Name : HOWARD L BOSWELL ENGINEER AND LAND SURVEYOR PC

Street Address :

799 MADISON AVENUE
ALBANY, NY 122080000

Business Entity : Professional Service Corporation

PSC # : 007687

Initial Filing Date : 01/08/71

Current through : 12/31/16

Certificate of Authorization to provide Land Surveying Services in New York State :

YES CERT# 0010893 EXPIRES 06/17

Certificate of Authorization to provide Professional Engineering Services in New York State :

YES CERT# 0009399 EXPIRES 08/15

Officers, Directors, Shareholders : Click on license number link to the left of professional's name for detailed information.

[15 049717](#) WHEELER MICHAEL P -

[16 051815](#) KELLY JAMES D -

[16 065208](#) BOSWELL KEVIN JAMES -

[16 067010](#) BOSWELL STEPHEN THOMAS -

[16 067219](#) BOSWELL BRUCE DAVID -

* Use of this online verification service signifies that you have read and agree to the [terms and conditions of use](#). See [HELP glossary](#) for further explanations of terms used on this page.

- Use your browser's back key to return to establishment list.
- You may [search](#) to see if there has been recent disciplinary action against this registered establishment.



GJEM

INSURANCE AGENCY, INC., A BRANCH OFFICE OF

Leading with Experience™

OTTERSTEDT
INSURANCE AGENCY

Joseph Gentile, CIC

Ezio I. Altamura, AAI, CIC, CWCP, NJWCP

Mathew M. McArow

March 16, 2015

Peter Pedalino, CFO
Boswell Engineering
330 Phillips Avenue
South Hackensack, NJ

Re: Professional Liability – Errors & Omission
Insurance Coverage for Specific Project

Dear Mr. Pedalino:

Pursuant to your request, we have contacted your insurance company Zurich North America and received approval to grant an increase in coverage for Professional Liability (Errors & Omissions), policy #EOC3826449, from \$2 Million to \$5 Million subject to a completed supplemental application. This coverage will be increased on a project specific basis in accordance with your needs.

Please contact my office once you are ready to proceed with the coverage increase.

Sincerely,

GJEM-Otterstedt Agency



Matthew M. McArow
Senior Vice President



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
12/8/2014

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER GJEM/Otterstedt Agency 363 Cedar Lane Teaneck, NJ 07666	CONTACT NAME: Mathew M. McArow
	PHONE (A/C, No, Ext): (201) 641-3800 FAX (A/C, No): (201) 227-5035
	E-MAIL ADDRESS:
	INSURER(S) AFFORDING COVERAGE
	NAIC #
INSURED Boswell Engineering Inc. 330 Phillips Avenue P.O. Box 3152 South Hackensack, NJ 07606	INSURER A : Hanover Insurance Co.
	INSURER B : Great American
	INSURER C : Manufacturers Alliance Ins Co
	INSURER D : Zurich American (REU) 16535
	INSURER E :
	INSURER F :

COVERAGES CERTIFICATE NUMBER: REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL SUBR INSD WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC <input type="checkbox"/> OTHER:		ZHY7920144	12/03/2014	12/03/2015	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 100,000 MED EXP (Any one person) \$ 5,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 3,000,000 PRODUCTS - COM/POP AGG \$ 3,000,000
A	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS		AHY7924529	12/03/2014	12/03/2015	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
B	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input checked="" type="checkbox"/> RETENTION \$ 10,000		TUU0249172	12/03/2014	12/03/2015	EACH OCCURRENCE \$ 15,000,000 AGGREGATE \$ 15,000,000
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N <input checked="" type="checkbox"/> N/A	201301-04-74-96-5Y	12/06/2014	12/06/2015	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
D	Prof. Liability		EOC3826449	03/27/2014	03/27/2015	Claims Made 2,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

CERTIFICATE HOLDER SAMPLE CERTIFICATE	CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
	AUTHORIZED REPRESENTATIVE



New York State Department of Taxation and Finance

Quarterly Combined Withholding, Wage Reporting, And Unemployment Insurance Return

NYS-45 WEB

Reference these numbers in all correspondence:

UI Employer registration number **45-79810** **3**

Withholding identification number **22-3276439**

Employer legal name:
BOSWELL UNDERWATER INSPECTION, INC

Mark an X in only one box to indicate the quarter (a separate return must be completed for each quarter) and enter the year.

Jan 1 - Mar 31	Apr 1 - Jun 30	July 1 - Sep 30	Oct 1 - Dec 31	✓	Year	14
1	2	3	4		YY	

Do you offer dependent health insurance benefits to any employee? Yes No

If seasonal employer, mark an X in the box

Number of employees

Enter the number of full-time and part-time covered employees who worked during or received pay for the week that includes the 12th day of each month.

a. First month	b. Second month	c. Third month	Disaster relief
1	1	1	

Part A - Unemployment insurance (UI) information

1. Total remuneration paid this quarter **18,444.00**

2. Remuneration paid this quarter to in excess of the UI wage base since January 1 **8,144.00**

3. Wages subject to contribution (subtract line 2 from line 1) **10,300.00**

4. UI contributions due
UI rate **9.525 %** **981.08**

5. Re-employment service fund (multiply line 3 x .00075) **7.73**

6a. Interest on contributions

6b. UI previously underpaid with interest **0.00**

7. Total of lines 4, 5, 6a and 6b **988.81**

8. Enter UI previously overpaid **0.00**

9. Total UI amounts due (if line 7 is greater than line 8, enter difference) ... **988.81**

10. Total UI overpaid (if line 8 is greater than line 7, enter the difference) *

Part B - Withholding tax (WT) information

12. New York State tax withheld **1,032.83**

13. New York City tax withheld **0.00**

14. Yonkers tax withheld **0.00**

15. Total tax withheld (add lines 12, 13, and 14) **1,032.83**

16. WT credit from previous quarter's return (see instr.) **0.00**

17. Form NYS-1 payments made for quarter **0.00**

18. Total payments (add lines 16 and 17) **0.00**

19. Total Wt amounts due (if line 15 is greater than line 18, enter difference) ... **1,032.83**

20. Total WT overpaid (if line 18 is greater than line 15, enter difference here and mark an X in 20a or 20b) * **0.00**

20a. Apply to outstanding liabilities and/or refund

20b. Credit to next quarter withholding tax

21. Total payment due (add lines 9 and 19) **2,021.64**

* An overpayment of either tax cannot be used to offset the amount due on the other tax.

Part C - Wage Reporting Summary

C Total UI total remuneration/gross wages paid this quarter 18,444.00	Total number of employees 1
D Total gross wages or distribution 60,335.82	E Total tax withheld 3,426.56

Sign your return: I certify that the information on this return and any attachments is to the best of my knowledge and belief true, correct, and complete.

Taxpayer's signature _____ Signer's name _____ Title _____

Date **01/19/2015 11:31:01** Telephone number _____



GUARDIAN[®]

03/02/2015

BOSWELL ENGINEERING INC
330 PHILLIPS AVENUE
SOUTH HACKENSAC, NJ 07606

Dear Planholder:

As mandated by the New York State Workers' Compensation Board, enclosed is a copy of your revised DB120, Certificate of Disability Coverage, to be displayed in your place of employment. This replaces your current poster and will expire on the date noted on the certificate. As long as your policy is active, you will receive a new certificate each year.

Sincerely,

Global Maintenance Billing
State Mandated Department

Dental

Life

Disability Protection

Critical Illness

Section 125/FlexPlan

Vision Care

The Guardian Life Insurance Company of America, New York, NY 10004

2009-0079

STATE OF NEW YORK
WORKERS' COMPENSATION BOARD

NOTICE OF COMPLIANCE
DISABILITY BENEFITS LAW
TO EMPLOYEES

1. If you are unable to work because of an illness or injury not work-related, you may be entitled to receive weekly benefits from your employer, or his or her insurance company, or from the Special Fund for Disability Benefits.
2. To claim benefits you must file a claim form, within 30 days from the first date of your disability, but in no event more than 26 weeks from such date.
3. Use one of the following claim forms:
-If, when your disability begins, you are employed or are unemployed for four weeks or less, use claim form DB-450, which you may obtain from your employer, his or her insurance carrier, your health provider or any office of the Workers' Compensation Board, and send it to your employer or the insurance carrier named below.
-If, when your disability begins, you have been unemployed more than four weeks, use claim Form DB-300, which you may obtain from any Unemployment Insurance Office, your health provider, or any office of the Workers' Compensation Board. Send completed claim form to the Workers' Compensation Board, Disability Benefits Bureau, Albany, New York 12241. **IMPORTANT:** Before filing your claim, your health provider must complete the "Health Care Provider's Statement" on the claim form, showing your period of disability.
4. You are entitled to be treated by any physician, chiropractor, dentist, nurse-midwife, podiatrist or psychologist of your choice. However, unlike workers' compensation, your medical bills will not be paid unless your employer and/or union provide for the payment of such bills under a Disability Benefits Plan or Agreement.
5. If you are ill or injured during the time you are receiving Unemployment Insurance Benefits, file a claim for Disability Benefits as soon as you sustain the injury or illness, by following the instructions outlined above.
6. If you are out of work in excess of seven days, your employer is required to send you a Disability Benefits Statement of Rights (Form DB-271S).
7. Other information about Disability Benefits may be obtained by writing or calling the nearest Workers' Compensation Board Office.

WORKERS' COMPENSATION BOARD OFFICES

Albany, 12241 - 100 Broadway - Menands - (866) 750-5157
Binghamton, 13901 - State Office Bldg. - 44 Hawley St. - (866) 802-3604
Brooklyn, 11201 - 111 Livingston St. - Brooklyn - (800) 877-1373
Buffalo, 14202 - 369 Franklin Street - (866) 211-0645
Hauppauge, 11788 - 220 Rabro Drive - Suite 100 - (866) 681-5354
Hempstead, 11550 - 175 Fulton Avenue - (866) 805-3630
New York, 10027 - 215 W. 125th St. - Manhattan - (800) 877-1373
Peekskill, 10566 - 41 North Division St. - (866) 746-0552
Queens, 11432 - 168-46 91st Ave. - Jamaica - (800) 877-1373
Rochester, 14614 - 130 Main Street West - (866) 211-0644
Syracuse, 13203 935 James St. - (866) 802-3730

www.wcb.state.ny.us

The undersigned employer is in compliance with the provisions of the Disability Benefits Law (El patron abajo firmante esta en conformidad con las disposiciones de la ley de Beneficios por Incapacidad).

Disability Benefits, when due, will be paid by (Los Beneficios por Incapacidad, cuando debidos, seran pagados por):

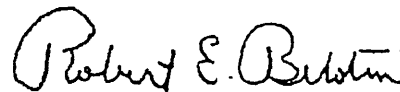
Name, Address and Phone No. of DB Insurance Carrier

Guardian Life Insurance Company of America
7 Hanover Square, New York NY 10004
800-268-2525

Effective: From 01/01/1992 To 03/31/2016
(En Vigor Desde) (Hasta)

Policy No. 00994287-0000
(Poliza No.)

1. Si usted no puede trabajar debido a enfermedad o lesión no relacionada con el trabajo, podría tener derecho a recibir beneficios semanales de su patrón o de la compañía de seguros de él/ella o del Fondo Especial para Beneficios por Incapacidad.
2. Para reclamar beneficios usted debe presentar una forma de reclamación, dentro de 30 días a partir de la primera fecha de su incapacidad, pero en ningún caso más de 26 semanas de dicha fecha.
3. Use una de las siguientes formas de reclamación:
-Si, cuando comience su incapacidad usted está empleado o ha estado desempleado por cuatro semanas o menos, use la forma de reclamación (Form DB-450), la cual puede obtener de su patrón o de la compañía de seguros de él/ella, o de su proveedor de cuidados de salud, o bien de cualquier oficina de la Junta de Compensación Obrera, y envíela a su patrón o a la compañía de seguros nombreda abajo.
-Si cuando comience su incapacidad, usted ha estado desempleado más de cuatro semanas, use la forma de reclamación (Form DB-300), la cual puede obtener en cualquier Oficina de Seguro de Desempleo, de su proveedor de salud, o bien de cualquier oficina de la Junta de Compensación Obrera. Envíe la forma de reclamación, debidamente terminada, a Workers' Compensation Board, Disability Benefits Bureau, Albany, New York 12241. **IMPORTANTE:** Antes de presentat usted su reclamación, es necesario que su proveedor de salud complete la declaración del médico ("Health Care Provider's Statement") en la Forma de relamacion, indicando el periodo de su incapacidad.
4. Usted tiene derecho a ser tratado por cualquier médico, quiropráctico, dentista, enfermera-partera, podiatra o psicólogo que usted elija. Pero, contrario ala compensación obrera, sus cuentas médicas no seran pagadas a menos que su patrón y/o Unión haga el pago de tales cuentas médicas bajo un Plan o Convenio de Beneficios por Incapacidad.
5. Si estuviera usted enfermo o lesionado durante el tiempo que esté recibiendo beneficios del Seguro de Desempleo, presente una reclamación para Beneficios por Incapacidad, siguiendo las instrucciones arriba descritas, tan pronto como sufra la lesión o la enfermedad.
6. Si usted está desempleado por mas de siete días, su patrón está obligado a enviarle la Declaración de Derechos de Beneficios por Incapacidad (Form DB-271S).
7. Otras informaciones relativas a Beneficios por Incapacidad pueden obtenerse escribiendo o llamando ala oficina más cercana de la Junta de Compensación Obrera.



ROBERT E. BELOTEN
CHAIR/PRESIDENTE

The benefits provided are (Los beneficios provistos son)

Statutory

Under a Plan or Agreement

Class(es) of employees covered (Clase(s) de empleados amparados)

Name of employer (Nombre del Patron)

BOSWELL ENGINEERING INC

By: The Guardian Life Insurance Company of America

THIS NOTICE MUST BE POSTED CONSPICUOUSLY IN AND ABOUT THE EMPLOYER'S PLACE OR PLACES OF BUSINESS.

DB-120 (1-11)

Prescribed by Chair
Workers' Compensation Board
State of New York

THE WORKERS' COMPENSATION BOARD EMPLOYS AND SERVES
PEOPLE WITH DISABILITIES WITHOUT DISCRIMINATION.

LA JUNTA DE COMPENSACION OBRERA EMPLEA Y
SIRVE A PERSONAS INCAPACITADAS SIN DISCRIMINAR.

STATE OF NEW YORK
WORKERS' COMPENSATION BOARD

NOTICE OF COMPLIANCE
DISABILITY BENEFITS LAW
TO EMPLOYEES

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3. Use one of the following claim forms:
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Syracuse, 13203 935 James St. - (866) 802-3730

ESTADO DE NUEVA YORK
JUNTA DE COMPENSACION OBRERA

AVESO DE CUMPLIMIENTO
LEY DE BENEFICIOS POR
INCAPACIDAD LOS EMPLEADOS

1. Si usted no puede trabajar debido a enfermedad o lesión no relacionada con el trabajo, podría tener derecho a recibir beneficios semanales de su patrón o de la compañía de seguros de él/ella o del Fondo Especial para Beneficios por Incapacidad.
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ROBERT E. BELOTEN
CHAIR/PRESIDENTE

www.wcb.state.ny.us

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Name, Address and Phone No. of DB Insurance Carrier

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Effective: From 10/01/2000 To 03/31/2016
(En Vigor Desde) (Hasta)

Policy No. 00994287-0001
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Statutory

Under a Plan or Agreement

Class(es) of employees covered (Clase(s) de empleados amparados)

Name of employer (Nombre del Patron)

BOSWELL UNDERWATER INSPECTION,
INC.

By: The Guardian Life Insurance Company of America

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PEOPLE WITH DISABILITIES WITHOUT DISCRIMINATION.

LA JUNTA DE COMPENSACION OBRERA EMPLEA Y
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DB-120 (1-11)

Prescribed by Chair
Workers' Compensation Board
State of New York

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ABOUT THE EMPLOYER'S PLACE OR PLACES OF BUSINESS.

New Jersey Unified Certification Program

NJUCP



THE PORT AUTHORITY OF NY & NJ

CERTIFIED

DISADVANTAGED BUSINESS ENTERPRISE

U & S ENGINEERS, PC.

This certificate acknowledges that the above named firm is certified as a Disadvantaged Business Enterprise as defined in Title 49, Part 26 of the US Code of Federal Regulations. This certificate will remain in effect for three years from the certification date and must be updated annually. **NJ TRANSIT** must be notified within 30 days of any changes in the business that may affect ownership and control.

Your firm will be listed in the NJ UCP directory under the following NAICS Code(s).

NAICS CODE	541330 Engineering Services
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NJ TRANSIT certified your firm as a DBE on behalf of all NJ UCP partners.

Signed: 
Emmett Lewis, Director
Office of Business Development

Signed: 
Lauren Williams
Business Development Specialist

CERTIFICATION DATE: December 30, 2011

EXPIRATION DATE: December 30, 2014

THE PORT AUTHORITY OF NY & NJ

Anthony R. Coscia
Chairman

Christopher O. Ward
Executive Director

Certified

By

Office of Business & Job Opportunity

H&S Engineers, P.C.

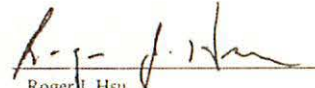
Certificate PA ID - 30092

This certificate acknowledges that the above named firm is certified as a **MINORITY BUSINESS ENTERPRISE (ARCHITECTURAL & ENGINEERING PROGRAM)**. This company has met the criteria for ownership and control as established by the Port Authority Policy for Revised Minority, Woman and Small Business Enterprise (M/W/SBE) Programs, dated June 10, 1993.

This certification will remain in effect for five years from the date of notice and may be extended only upon submission by you, and acceptance by the Port Authority of a recertification application attesting that the ownership and control of the business, on which this certificate is granted, has not changed. This office must be notified within 30 days of any material changes in the business which affect ownership and control. Failure to do so may result in the revocation of this certification and/or imposition of other sanctions. Please reference the above number on all correspondence directed to this office.



Lash Green
Director
Certified: February 9, 2011



Roger U. Hsu
Manager, Certification
Scheduled Re-evaluation: February 9, 2016

16 March 2015

Christopher Steers, Village Manager
Village Hall
222 Grace Church Street
Port Chester, New York 10573

**Re: Bulkhead RFP Submission
Village of Port Chester
Langan Project No. 170350001**

Dear Mr. Steers:

Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C. (Langan) is pleased to submit this proposal to provide professional engineering services for the repair of the collapsed bulkhead section along Byram River, and for the construction of the "Activity Node" platform. Per the RFP document, we are submitting one original and ten copies of our technical and fee proposals in separate envelopes.

Langan is a full-service, multi-discipline engineering consulting firm that has 45 years of experience working on projects throughout the New York Metropolitan Area. We employ over 900 professionals around the world, and have access to a pool of nearly 400 technical staff in the tri-state region. Drawing upon our geotechnical and waterfront expertise, Langan has a record of successfully completing bulkhead design and rehabilitation projects for public and private clients alike. We are able to design bulkheads, pier and wharf platforms, and shoreline embankments, as well as perform existing waterfront structure evaluations, subsurface investigations, and construction inspection.

The proposed Langan team will be headed by Principal-in-Charge Gregory Biesiadecki, PE, LEED AP; Project Manager Kenneth Huber, PE; and supported by highly-qualified staff with expertise in various disciplines, including geotechnical/waterfront and site/civil engineering, landscape architecture, environmental quality review, permitting and surveying. The capabilities of our team will be further augmented by the following subconsultants:

- Atlantic Engineering, LLC – Dive Inspection
- Ellana Construction Consultants, Inc. (WBE) – Cost Estimation Services
- Rogers Surveying, PLLC – Hydrographic Survey
- Atlantic Testing Laboratories, Limited (WBE) – Drilling and Boring Services (if required)

Each of these subconsultants is well-regarded in their respective field and meets the required professional qualifications set forth in the RFP document. Langan is also committed to the inclusion of Minority- and Woman-owned Business Enterprises (M/WBE) on our project teams, and Ellana Construction Consultants and Atlantic Testing Laboratories will help achieve the 20% participation goal required of this project.

Langan also has sufficient professional liability insurance coverage for negligent acts, errors and omissions, as well as other forms of insurance coverage that would protect the Village of Port Chester from loss or harm, should the proposal be accepted.

We thank you again for the opportunity to serve you. Should you have any questions about our proposal or service offerings, please contact the undersigned at 212.479.5403/gbiesiadecki@langan.com or 914.323.7410/cutschig@langan.com.

Sincerely,

**Langan Engineering, Environmental, Surveying
and Landscape Architecture, D.P.C.**



Charles Utschig, PE
Associate



Gregory L. Biesiadecki, PE, LEED AP
Principal/Vice President

cc: K. Huber



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Technical Approach



Technical Approach

UNDERSTANDING OF THE PROJECT

The project site within the Village of Port Chester, New York, is on the east bank of the Byram River as shown in the figure below. The site is adjacent to a Costco parking lot that is at the eastern terminus of Westchester Avenue.

The bulkhead and walkway is owned by the Village of Port Chester. A bulkhead was built in 2001 along approximately 1500 linear feet (ft) of the river as part of the Waterfront at Port Chester development. We understand that the bulkhead design engineer was Vachris Engineering of Garden City, New York.

The bulkhead design included 12 inch wide by 9 inch deep PVC sheets that are externally supported by timber piles spaced every 8 ft. The piles are connected by several levels of timber walers running along the face of the sheeting. It is our understanding that the PVC sheets penetrate into the mudline up to 10 ft and in some cases do not penetrate the river bottom.

The PVC sheets are capped with a steel channel and are topped with a PVC railing. Several outfalls penetrate through the sheeting near the mudline. The PVC bulkhead abuts a steel sheetpile bulkhead at its northern terminus.

Outboard and parallel to the bulkhead is a gangway of wooden floats for the public to rent mooring slips for their boats. This gangway is kept in place by a row of piles several ft outboard of the existing bulkhead. It is our understanding that this gangway is removed in the winter.

The up to 20 ft wide walkway surface consists of dry-laid concrete unit pavers on an aggregate base and a strip of concrete paving at the back of the bulkhead. Other design features include landscape planting between the walkway and Costco parking lot to the west of and decorative post-top luminaires. There is a retaining wall between the parking lot and walkway; the parking lot grade is several feet higher than the walkway. The walkway is lined with pavers and is illuminated by along the center of the walkway and appears to drain through the bulkhead.

During our September 2010 visit, we also noted signs of bulkhead movement and corresponding paver settlement along the entire length. One section of the bulkhead, near the southern end, exhibited significant movement. We understand that in late 2010, this section of the bulkhead collapsed.

Our observations in 2015 suggest that the remaining bulkhead has continued to rotate out towards the river and the pavers have continued to settle.



Walkway and bulkhead in September 2010



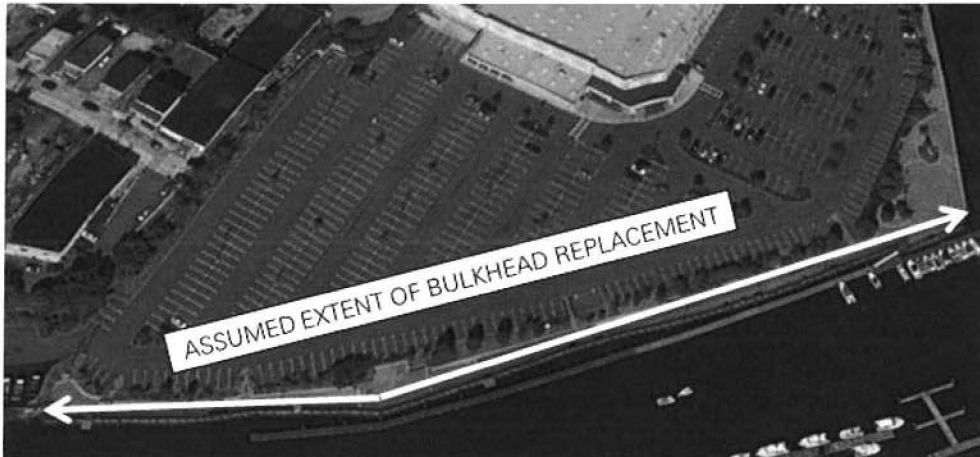
Walkway and bulkhead in March 2015



Technical Approach

The RFP's scope of work requires that a design be prepared that replaces about 860 ft of bulkhead and adds an "Activity Node" platform in the area of the collapsed bulkhead to promote waterfront access and education.

The photo below shows our assumed limits of bulkhead replacement:



It is our understanding that the Activity Node platform is intended for passive activities and fishing. The town is also interested in possibly including educational placards that provide information about Byram River and Long Island Sound and a launch platform for paddleboats.

We have some familiarity with the subsurface conditions in the area as we performed a geotechnical investigation for the improvements at the Retail H parcel. Based on this work, we are aware that schistose gneiss bedrock is found relatively close to the surface grade in the area. This shallow rock is exposed south of the parking lot.

TECHNICAL APPROACH

Langan is a multidisciplinary professional design services firm with over 60 years of experience in waterfront development projects. Unlike many of our competitors, Langan can offer a unified multidisciplinary design approach with all major disciplines under one roof. Founded in 1970, Langan employs more than 900 professionals. Technical excellence, practical experience and client responsiveness are qualities brought by Langan to every project. Langan's broad range of services includes the following:

- Geotechnical Engineering
- Foundation Design
- Site/Civil Engineering
- Environmental Engineering
- Earthquake/Seismic
- Surveying
- 3D Laser Scanning
- Building Information Modeling (BIM)
- Natural Resources Assessments & Permitting

Technical Approach

SCOPE OF SERVICES

Langan proposes to provide the following services for the Village of Port Chester.

Task 6 Kick Off Meeting (Second Project Meeting)

Langan will meet with the Village, the Project Advisory Committee, the NYSDOS, and other project partners to review project requirements, site conditions, roles and responsibilities, and to identify information needs and next steps.

We anticipate that we will receive and review before this meeting any available original design plans, borings logs, bulkhead investigation reports, and other similar documentation regarding the existing bulkhead. We will summarize the review findings and how they impact the information needs and next steps as part of the kick off meeting.

Langan will prepare and distribute the kickoff summary which will clearly indicate the agreements and understandings reached at the meeting. We understand that we will not proceed with the site reconnaissance until we receive approval of our proposed approach as outlined in the meeting summary.

Task 7 Site Reconnaissance and Schematic Designs

Site Reconnaissance

Langan and our subcontractors will conduct a reconnaissance of the bulkhead to identify and document the following:

- Site topographic survey including:
 - o Ownership/grant/lease status of all lands to be incorporated into the design
 - o Manmade structures on or immediately adjacent to the bulkhead
 - o Above and below ground infrastructure including stormwater treatment structures
- Hydrographic survey
- Underwater dive inspection
- Transportation/circulation systems that serve or are located near the site
- Adjacent land and water uses
- Historic and archeological resources (based on a desktop study)
- Topography and hydrology
- Natural resources including the inventory and assessment of mature trees
- View corridors
- Zoning and other applicable designations
- Analysis of site, environmental and recreational constraints and opportunities
- Assessment of pedestrian connections, waterfront accessibility, site lighting and planting

The hydrographic survey will be completed by Rogers Surveying. The underwater investigation will be completed by Atlantic Engineering whose lead diver for the project will be a New York State-registered professional engineer who is a certified commercial diver and bridge inspector.

We have assumed for the purposes of our cost proposal that we will be provided geotechnical information that was used for the design of the existing bulkhead and that the information adequately characterize the subsurface conditions. We have provided an add/alt price for a full subsurface exploration should one be necessary.

Technical Approach

Langan will consider a number of replacement bulkhead alternatives and will not limit them to only in-kind replacement ideas. Some of these ideas that will be explored further include:

- Anchored steel sheetpile bulkhead
- Concrete gravity wall bulkhead supported on piles
- Concrete-stepped bulkheads supported on timber piles

After the geotechnical and marine engineering issues are addressed, our focus will turn to the surfaces, furnishings, lighting, benches, etc., are the things that people will see, feel, touch and react to on the restored walkway. They need to be familiar to the users. Our job will be to engage people with this new waterfront, to make it memorable and a destination that they return to again and again. Langan's landscape architects will provide the design vision to integrate and coordinate the team's disciplinary expertise for this project.

We will consider various options for the new walkway paving, site lighting and planting, making sure these features are well integrated with the engineering aspects of the project. Walkway paving options may include concrete, brick or asphalt unit paving over a bituminous setting bed and concrete base. We will present ideas to utilize decorative LED luminaires to improve lighting levels and user's sense of security and safety. The new LED lighting presents an opportunity to minimize long term maintenance and minimize energy costs. Sustainable, urban-tolerant planting with seasonal interest will be critical to providing an attractive waterfront for years to come.

After the three alternatives are presented at the public meeting (Task 8) and after receiving written guidance from the Project Advisory Committee and the NYSDOS, Langan will select one of the alternative schematic designs to advance the design to full construction plans and specifications. We will not start the final plans until after receiving approval for the construction requirement analysis and the pre-permit application meeting (Task 9).

Task 8 Public Meeting

After the alternatives are reviewed by the Project Advisory Committee and the NYSDOS, Our landscape architects/urban designers will work in close collaboration with the community to strengthen the connections between the village and the river's edge and on transforming the site into a vibrant public asset. We expect there to be an open dialogue with the local community and project stakeholders, paying particular attention to issues of waterfront access, recreation and other activities. Langan will present the alternatives at a public meeting. The public will be given an opportunity to provide input and ask questions, which will be considered in selecting an alternate for final design. We will also post our presentation online to solicit comments and suggestions after the meeting. We propose to develop a teamwork methodology that will push the project forward by folding a highly creative design-based approach into scientific and engineering issue-driven solutions, forming the framework of our design. We will provide a written summary of the public's feedback for the Village's and NYSDOS's review and comment.

Task 9 Construction Requirement Analysis

Langan will analyze the federal, state, and local regulatory requirements for the selected alternative. This work will include reviewing all necessary permits and approvals and a description of how these requirements will be satisfied by the design. We will request that a pre-permit application meeting with the NYSDOS and identified federal, state, and local regulatory agencies to identify potential regulatory issues with the selected alternative. A written summary of our findings will be distributed to the appropriate project partners.

Technical Approach

Task 10 Environmental Quality Review

Langan will prepare and submit documents necessary to comply with the State Environmental Quality Review Act (SEQR) through determination of significance. If a positive declaration is made, Langan will prepare a Draft Environmental Impact Statement.

Task 11 Draft Final Design

Langan will prepare a draft final design based on the selected schematic design alternative. The draft final design will include all required maps, tables, data, written discussions, and other information identified in our contract and during the project kick-off meeting.

The draft final design plans will be provided to the Project Advisory Committee and the NYSDOS for review at least two weeks prior to the due date for comments. Comments will be satisfactorily addressed in the final design submission.

Task 12 Final Design and Construction Documents

Langan will prepare the final design plans, specifications, and cost estimates. We will provide them at least two weeks before the due date for comments to the Project Advisory Committee and the NYSDOS. Our design plans will be signed and sealed by a licensed professional engineer.

Task 13 Permits

Langan will request a permit application meeting with the appropriate regulatory bodies during Task 9 to confirm that there are no potential significant issues with the design from a regulatory standpoint.

After the final design plans, specifications, and other required construction documents are approved by the NYSDOS, Langan will prepare the necessary permit and other approval applications and submit them to the village and NYSDOS for review and comment. We will submit the applications as required after satisfactorily addressing any comments received. We have assumed that any permit application fees will be paid for directly by the Village.

We will provide responses to requests for additional information from the regulatory agencies. We have assumed that the responses will not require significant modification of the design plans.

As part of this task, Langan will demonstrate that the project is in compliance with 6 NYCRR 502 "Floodplain Management Criteria for State Projects" by obtaining a floodplain development permit, if needed, or by submitting a signed certification by an official authorized to enforce local floodplain management regulations that the project complies with the requirement of the statute.





Project Team



Langan Project Team Organization



Gregory Biesiadecki, PE, LEED AP
Principal-in-Charge

Charles Utschig, PE
QA/QC Manager

Kenneth Huber, PE
Project Manager

Michael Finan, PE, LEED AP
Project Engineer
Site/Civil Engineering /
Environmental Quality Review /
Permitting

Steven Laudati, RLA
Project Landscape Architect

Erik Muller, PE, LEED AP
Project Engineer
Geotechnical / Waterfront
Engineering

Steven Waldemer, PLS
Project Surveyor
Topographical/Boundary/
Utility Survey

**Ellana Construction
Consultants (WBE)**
Cost Estimation Services

Atlantic Engineering
Dive Inspection

**Atlantic Testing
Laboratories (WBE)**
Drilling and Boring Services

Rogers Surveying
Hydrographic Survey

Project Team

LANGAN KEY PERSONNEL

Gregory Biesiadecki, PE, LEED AP – Principal-in-Charge

Mr. Biesiadecki will serve as the Principal-in-Charge and assume overall responsibility for the technical and administrative aspects of the project. He will oversee quality assurance/quality control, and stay in frequent contact with the Project Manager to monitor project progress.

Charles Utschig, PE – QA/QC Manager

Mr. Utschig will ensure that Langan's quality standards are being upheld throughout the duration of the project, in accordance with Langan's Quality Management Program. He will oversee all project tasks and review deliverables, reporting directly to the Principal-in-Charge.

Kenneth Huber, PE – Project Manager

Mr. Huber will serve as the Project Manager and be the day-to-day contact person for the Village of Port Chester. He will provide technical oversight for all services rendered by the project team, as well as constructive feedback to Project Personnel. Mr. Huber will ensure that the project progresses according to schedule and will be responsible for budgetary control.

Erik Muller, PE, LEED AP – Project Engineer | Geotechnical / Waterfront Engineering

Mr. Muller will be responsible for all geotechnical and waterfront engineering tasks throughout the duration of the project. He will lead the dive inspection of waterfront structures and subsurface investigation, develop design recommendations for the rehabilitation program, and produce construction documents for the selected design. Mr. Muller will coordinate activities with the dive inspection, drilling and boring, and cost estimation subconsultants.

Michael Finan, PE, LEED AP – Project Engineer | Site/Civil Engineering, Environmental Quality Review, Permitting

Mr. Finan will lead the natural resource assessment, environmental quality review and regulatory permitting processes, and be responsible for any site/civil engineering tasks associated with the reconstruction of the bulkhead walkway and design of the "activity node." Key tasks include site reconnaissance, preparation of SEQRA documentation and Draft Environmental Impact Statement (if required); federal, state and local permit approval applications; and conceptual site and infrastructure design.

Steven Laudati, RLA – Project Landscape Architect

Mr. Laudati will be responsible for preparing the landscape design and construction documents for the rehabilitation of the existing bulkhead walkway, which is to be replaced in-kind, as well as the landscape elements associated with the "activity node" platform.

Steven Waldemer, PLS – Project Surveyor | Topographic/Boundary/Utility Survey

Mr. Waldemer will be responsible for preparing various surveys during site reconnaissance, specifically detailing site topography and the extent of project boundary. He will also coordinate the activities of the hydrographic surveying subconsultant.

Project Team

SUBCONSULTANTS

Atlantic Engineering, LLC – Dive Inspection

Atlantic Engineering, LLC (Atlantic Engineering) provides complete underwater measurements, condition surveys, testing, 35mm and video photography, and report documentation, under the oversight of owner Bryan Juncosa, PE. Mr. Juncosa has 36 years' experience performing in-depth inspections of marine structures above and below water, including bulkheads, platforms, piers, pipelines, dams, tunnels and culverts. He possesses a thorough understanding of both state and federal requirements, ensuring that projects are documented to the most stringent technical specifications.



Ellana Construction Consultants, Inc. (WBE) – Cost Estimation Services

Ellana Construction Consultants, Inc. (Ellana) is a certified Woman-owned Business Enterprise (WBE) that provides cost management, project control, owner representation and professional training services to a wide range of A/E/C industry clients. The firm's staff of 20 employees includes architects, engineers and construction experts poised to provide quality cost estimating, scheduling, administration and project cost control services at all stages of design and construction.



Rogers Surveying, PLLC – Hydrographic Survey

Rogers Surveying, PLLC (Rogers) provides a full range of land and hydrographic surveying services to federal, state and local agencies, architects, builders, construction companies, attorneys and title companies. Rogers uses the most state-of-the-art hydrographic surveying equipment, including Reson 7101 Wide Swath Multibeam to collect the data, TSS 320 POS/MV for real-time vessel heave, pitch and roll corrections, and Hypack software to both collect and process Multibeam data.



Atlantic Testing Laboratories, Limited (WBE) – Drilling and Boring Services

Atlantic Testing Laboratories, Limited (ATL) is a certified Woman-owned Business Enterprise (WBE), that provides full service engineering support services. ATL specializes in subsurface investigation, water-based investigation, geotechnical engineering, environmental services, special inspections, construction materials testing, pavement engineering, and nondestructive testing services.







Gregory Biesiadecki, PE, LEED AP

Principal-in-Charge

Mr. Biesiadecki is an experienced geotechnical engineer whose practice involves subsurface investigations, design and construction supervision of foundations for waterfront structures, bridges and buildings; development of rehabilitation and expansion programs of existing facilities; assessment of structural conditions, seismic vulnerability and slope stability evaluation; temporary and permanent excavation support systems; underpinning and slurry walls; pre-construction conditions surveys; and analysis of existing and imposed stresses on tunnel linings.

Selected Projects

Bush Terminal Bulkhead Rehabilitation, Brooklyn, NY – Principal for the rehabilitation of approximately 280-foot-long wharf. Project included the outboard extension of the wharf over a 30 foot length to accommodate the planned expansion of Marginal Street and the extension of a 100-year-old brick CSO outfall.

184 Kent Avenue Waterfront Redevelopment, Brooklyn, NY – Principal leading marine, geotechnical and site/civil engineering services for this waterfront redevelopment project. Services involved the repair of the existing waterfront structure (i.e., bulkhead) and placement of fill behind the bulkhead to allow for the reconstruction of the existing building foundation and construction of a new waterfront walkway along the bulkhead.

Hunts Point Waterfront Rehabilitation Project, Bronx, NY – Principal for three distinct waterfronts along the waterfront of Hunts Point involving 3,000 feet of waterfront that is contaminated by a former large manufactured gas plant facility. Responsibilities included overseeing the demolition of the failing bulkheads and piers, excavation of contaminated fill material, adapting the bulkhead design to conditions discovered in the field, and oversight of new bulkhead construction.

The Boathouse at Canal Dock, New Haven, CT – Principal and Engineer-of-Record for the design of a new 50,000 SF recreation pier. The new 50,000 SF pier is designed to support a two-story building with a 14,000 SF footprint. An offshore and onshore subsurface investigation program included drilled geotechnical borings, cone penetrometer tests, and test pits. The design effort included analyses of the pile foundation elements and of the platform using finite analysis software. Langan as lead consultant had extensive coordination with the building's architect and structural engineer, project MEP, and landscape architects. Was also responsible for the rehabilitation design of an adjoining bulkhead. Produced the design drawing set that was used for the construction of the platform and bulkhead rehabilitation. Provided construction administration services through to pier completion.

Northside Piers (164 Kent Avenue), Brooklyn, NY – Project Engineer responsible for marine engineering services for mixed-use development located on five-acres of the Williamsburg waterfront. Responsibilities include assisting the developer with zoning and development regulations in site design requirements for features such as open space, public access, landscaping, pier, and esplanade construction, each pursuant to the recently adopted Williamsburg Rezoning Plan.

Education:

M.E., Structural and Geotechnical Engineering
The Cooper Union of the Advancement of Science and Art

B.E., Civil Engineering
The Cooper Union of the Advancement of Science and Art

Years of Experience:

30 years

Professional Registration:

Professional Engineer (PE) in NY, CT

LEED Accredited Professional
(LEED AP)

Affiliations:

American Society of Civil Engineers – Member

Metropolitan Section, Zone 1
District 1, former Section Treasurer and Director, Geotechnical Group Chair, Forensic Engineering Group Chair

Metropolitan Waterfront Alliance – Member, WEDG Committee

American Council of Engineering Companies – Member, Structural Codes Committee

Structural Engineers Association of NY – Member, Underpinning Committee

The Cooper Union, Adjunct Professor, Undergraduate and Graduate Level
New York University, PE Review Course Instructor

Contact Information:

21 Penn Plaza, 360 W. 31st Street, 8th Floor
New York, NY 10001
212.479.5403 (t)
212.479.5444 (f)
gbiesiadecki@langan.com



Charles Utschig, PE

QA/QC Manager

Mr. Utschig has over 32 years of experience in the field of civil engineering, specializing in real estate development of all types including recreational, commercial, residential and industrial. He has directed and supervised a team of engineers, designers, computer operators and draftspeople. Mr. Utschig has extensive experience in the design of sewer and water systems, including pump stations, stormwater management systems, highway improvements, including traffic signal design, drainage systems, and the preparation of Environmental Impact Statements.

Selected Projects

Scenic Hudson Park at Peekskill Landing, Peekskill, NY – Project Manager overseeing site/civil, geotechnical, marine and structural engineering, and landscape architecture services for the revitalization of an underutilized park on the Hudson River. Responsible for developing construction documents and specifications for site elements that included walking trails, a gazebo and trellis, an elevated boardwalk overlooking the Hudson River, kayak launch, and pedestrian bridge. Also responsible for preparing, processing and securing permits from New York State Department of Environmental Protection and United States Army Corps of Engineers, which included coastal consistency determination and flood prevention analysis.

Southern Waterfront Trail and Park, Peekskill, NY – Project Manager for the revitalization of a park on the Hudson River waterfront, which was funded by New York State grant money as well as matching funds from the City of Peekskill. The project included extensive shoreline stabilization, which was coordinated with state agencies including the Hudson River Sustainable Shorelines Project, incorporating “green” technologies. A key aspect of this design effort was to develop a scope of work that worked within the city’s budget, and this goal was achieved. In addition, permitting was a key issue, and all permits were obtained in accordance with the established project schedule.

Ferry Point Waterfront Park, Bronx, NY – Project Manager responsible for the development of civil engineering drawings for the planning and redevelopment of a 192-acre former landfill into a multi-use public park. Services included preparation of site layout, grading, drainage and utility designs, integrated stormwater management and irrigation system, construction plans and specifications. Obtained permits from various New York City public agencies, and prepared drawings and documents in support of the Uniform Land Use Review Procedure (ULURP) to de-map an unimproved city street and map a sewer corridor.

Drainage & Related Site Improvements along Murray Avenue from Colonial Avenue to Bryson Street, Mamaroneck, NY – Principal-in-Charge who performed a detailed assessment of the drainage system in the vicinity of Murray Avenue and develop a design solution that worked within the County’s budgetary constraints and would resolve the more severe flood events. Prepared a detailed drainage study of the areas contributing to this problem, including a hydraulic analysis of the existing piping system, verification of the existing utilities and a detailed research of all available historical data. Using this information, prepared and presented eight design alternatives to the County of Westchester; then prepared construction documents for the preferred solution which included raising and reconstruction of a portion of Murray Avenue and the installation of a 740 LF of 36-inch storm drain pipe which was interconnected with the existing drainage system.

Education:

B.S., Civil Engineering
Widener University

Years of Experience:

32 years

Professional Registration:

Professional Engineer (PE) in NY, CT, NJ,
FL

Affiliations:

American Society of Civil Engineers –
Member

National Water Well Association

Harrison Zoning Board of Appeals –
Chairman

Florida Society of Professional Engineers

Contact Information:

707 Westchester Avenue, Suite 304
White Plains, NY 10604
914.323.7410 (t)
914.323.7401 (f)
cutschig@langan.com



Ken Huber, PE

Project Manager

Mr. Huber has 14 years of experience in geotechnical, site/civil and waterfront engineering. His experience includes development and supervision of subsurface investigations; development, installation and monitoring of geotechnical instrumentation; design of shallow and deep foundation systems; evaluation of earth slope stability; design of retaining walls, reinforced earth, anchored bulkheads, and other earth retaining structures; design of excavation support systems; design and construction of waterfront structures; preparation of geotechnical engineering reports and recommendations; and coordination and supervision of construction inspection services. Mr. Huber has served as an instructor for the firm's in-house training programs on subsurface investigation instrumentation, and engineering inspection during construction.

Selected Projects

Gowanus Canal Bulkhead Replacement, Brooklyn, NY – Project Manager responsible for conducting the investigation of and developing the repair design for a deteriorated timber bulkhead along the Gowanus Canal. Scope of work included a "swim-by" inspection of the bulkhead to assess the existing condition, a subsurface investigation to determine subsurface soil conditions, design of remedial measures to protect the bulkhead, and design of a new anchored steel sheet pile bulkhead.

The Boathouse at Canal Dock, New Haven, CT – Project Manager for the design of a new 50,000 SF recreation pier. The new 50,000 SF pier is designed to support a two-story building with a 14,000 SF footprint. An offshore and on-shore subsurface investigation program included drilled geotechnical borings, cone penetrometer tests, and test pits. The design effort included analyses of the pile foundation elements and of the platform using finite analysis software. Langan as lead consultant had extensive coordination with the building's architect and structural engineer, project MEP, and landscape architects. Was also responsible for the rehabilitation design of an adjoining bulkhead. Produced the design drawing set that was used for the construction of the platform and bulkhead rehabilitation. Provided construction administration services through to pier completion.

Bay Head Yacht Club, Bay Head, NJ – Project Manager for geotechnical and marine engineering, and permitting associated with the renovation of this yacht club, installation of new piles and replacement of the existing bulkhead. Langan's engineering services included geotechnical/marine bulkhead investigations, flood load analysis, and geotechnical subsurface investigations and foundation recommendations. Permitting activities included submittal of a Coastal Jurisdictional Determination with the NJDEP, and preparation of a USACE application for maintenance activities. Langan also coordinated with other applicable agencies, including the New Jersey State Historic Preservation Office.

Colgate-Palmolive Waterfront Rehabilitation, Jersey City, NJ – Design engineer responsible for the design of 1100 linear feet of an anchored sheet pile bulkhead, combined sewer outfall box culvert, a public waterfront walkway, pile-supported scenic overlooks, and pier along the Hudson River. Work included subsurface investigation; geotechnical, structural, and site engineering; construction drawings and specifications; and construction inspection. Project engineer responsible for construction inspection, contractor submittal reviews, and instrumentation program to monitor the progress of the surcharge program and to monitor the loading of the anchored sheet pile wall and relieving platform.

Education:

M.S., Civil Engineering
Virginia Polytechnic Institute and State University

B.E., Civil Engineering
Stevens Institute of Technology

Years of Experience:

14 years

Professional Registration:

Professional Engineer (PE) in NY, NJ, PA

Affiliations:

American Society of Civil Engineers

Geo-Institute

Tau Beta Pi

Contact Information:

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New York, NY 10001
212.479.5415 (t)
212.479.5444 (f)
khuber@langan.com



Erik Muller, PE, LEED AP

Project Engineer | Geotechnical / Waterfront Engineering

Mr. Muller is a waterfront engineer whose experience involves waterfront, environmental and geotechnical site assessments in New York and New Jersey. His current responsibilities include field and office management of waterfront engineering inspections and design. His waterfront work experience includes bulkheads, riprap embankments, piers and dredge programs. Mr. Muller also has extensive experience with environmental and geotechnical investigations, including sampling of soil, sediment, surface water, and groundwater; preparation of environmental and geotechnical reports; and health and safety monitoring.

Education:

M.S., Ocean Engineering
University of New Hampshire

B.S., Electrical Engineering
SUNY Maritime College

Years of Experience:

12 years

Professional Registration:

Professional Engineer (PE) in NY

LEED Accredited Professional
(LEED AP)

OSHA 40-Hour HAZWOPER

OSHA 8-Hour Supervisor

U.S. Nuclear Regulatory Commission
RSO and Operator's Course

Affiliations:

American Society of Civil Engineers –
Member of Coasts, Oceans, Ports, and
Rivers Institute

Metropolitan Waterfront Alliance –
Member, WEDG Committee

Contact Information:

21 Penn Plaza, 360 W. 31st Street, 8th Floor
New York, NY 10001
212.479.5418 (t)
212.479.5444 (f)
emuller@langan.com

Selected Projects

Bush Terminal Bulkhead Rehabilitation, Brooklyn, NY– Project Engineer for the rehabilitation of approximately 280 ft long wharf. Project included the out-board extension of the wharf over a 30 ft length to accommodate the planned expansion of Marginal Street and the extension of a 100-year-old brick CSO outfall.

Gowanus Canal Bulkhead Replacement, Brooklyn, NY – Project Engineer responsible for conducting the investigation of and developing the repair design for a deteriorated timber bulkhead along the Gowanus Canal. Scope of work included a “swim-by” inspection of the bulkhead to assess the existing condition, a sub-surface investigation, design of remedial measures to protect the bulkhead, and design of a new anchored steel sheet pile bulkhead.

South Lloyd Street Bulkhead, New Haven, CT – Project Engineer providing design services for 900-foot bulkhead replacement, boat launch, and outfall. Performed peer review of design implemented by another consultant, and found the selected design was inappropriate given the prevailing soil properties, Developing plans that allows for the utilization of the previously purchased sheet piles by adding intermediate king pile sheets and a tieback and waler system.

The Boathouse at Canal Dock, New Haven, CT – Project Engineer responsible for wave analysis modeling effort and design of bulkhead rehabilitation program for the existing 1,400-ft-long steel sheet pile bulkhead. Provided structural engineering design services for a 55,000-SF pier platform and construction administration services.

FedEx Distribution Facility, Queens, NY – Project Engineer that was responsible for evaluating the structural condition of the site's relieving platform and sheet pile bulkhead. Designed and oversaw the stabilization of the relieving platform, which consisted of filling the voids under the platform with flowable fill. Provided oversight during the mitigation effort, which involved the removal of hazardous debris from a tidal flat at a nearby public park.

Hunts Point Waterfront Rehabilitation, Bronx, NY – Project Engineer providing resident engineering services for three distinct waterfronts along the Hunts Point Peninsula, involving 3,000 LF of waterfront contaminated by a former large manufactured gas plant facility. Responsibilities included overseeing the demolition of the failing bulkheads and piers, excavation of contaminated fill material, adapting the bulkhead design to conditions discovered in the field, and oversight during new bulkhead construction.

155 West Street Waterfront Redevelopment, Brooklyn, NY – Project Engineer responsible for geotechnical and marine engineering services in support of the mixed-use residential development of a site on the East River, which includes the development of waterfront recreation space. Tasks included land and water sub-surface investigations and foundation design, and pier/bulkhead evaluation and structural engineering design of new bulkhead and wharf.



Michael Finan, PE, LEED AP

Project Engineer | Site/Civil Engineering / Environmental Quality Review / Permitting

Mr. Finan has 14 years of experience in land development projects in addition to structural, environmental, and architectural projects. He has a broad range of experience in the various scopes of site/civil engineering and environmental planning, and possesses extensive knowledge of various federal, state and municipal permitting approval processes. Prior to joining Langan, Mr. Finan was responsible for the management, design, and construction of a variety of private and public projects in Westchester County.

Selected Projects

V.E. Macy Park, Ardsley, NY – Project Engineer for the reconstruction and related site improvements for roadway and parking lot. In addition, assisted in the design and construction management of the bulkhead along the existing lake. Responsible for preparation of project specifications, construction documents and bid review for Westchester County DPW. Also provided site/civil engineering services in support of the design of the new roof system for the existing building.

Scenic Hudson Park at Peekskill Landing, Peekskill, NY – Project Engineer responsible for site/civil engineering services for the revitalization of an underutilized park on the Hudson River. Responsible for developing construction documents and specifications for site elements that included walking trails, a gazebo and trellis, an elevated boardwalk overlooking the Hudson River, kayak launch, and pedestrian bridge. Also responsible for preparing, processing and securing permits from New York State Department of Environmental Protection and United States Army Corps of Engineers, which included coastal consistency determination and flood prevention analysis.

Southern Waterfront Trail and Park, Peekskill, NY – Project Engineer for site/civil engineering and permitting services for the revitalization of a park on the Hudson River waterfront, which was funded by New York State grant money as well as matching funds from the City of Peekskill. The project included extensive shoreline stabilization, which was coordinated with state agencies including the Hudson River Sustainable Shorelines Project, incorporating “green” technologies. A key aspect of this design effort was to develop a scope of work that worked within the city’s budget, and this goal was achieved. In addition, permitting was a key issue, and all permits were obtained in accordance with the established project schedule.

FDNY Randall’s Island Fire Training Facility, New York, NY – Project Engineer for the design and preparation of technical specifications for the entrance to the Fire Training Facility. The site design included the relocation and reconstruction of drainage facilities, curbing, and entrance grades in addition to erosion and sediment controls in accordance with NYCDEP guidelines. Prepared a Lighting design and layout for the new guard booth and emergency gate.

North/South County Trail, Various Locations, Westchester County, NY – Project Manager who was retained by the County to provide an assessment and to prepare construction documents for repair work at several locations along the North and South County Trailway which were damaged due to severe weather conditions. The repair work included damage to the asphalt trailway, eroded slopes, drainage culverts, and erosion conditions. A visual inspection was performed of the entire North and South County trails which was conducted over a two week period.

Education:

B.S., Civil and Environmental Engineering
Rutgers University

Years of Experience:

14 years

Professional Registration:

Professional Engineer (PE) in NY

LEED Accredited Professional (LEED AP)

Affiliations:

New York Society of Professional
Engineers – Member

Contact Information:

707 Westchester Avenue, Suite 304
White Plains, NY 10604
914.323.7411 (t)
914.323.7401 (f)
mfinan@langan.com



Steven Laudati, RLA

Project Landscape Architect

Education:

B.S., Landscape Architecture
University of Massachusetts, Amherst

Years of Experience:

15 years

Professional Registration:

Registered Landscape Architect (RLA) in
NY, CT, PA

Affiliations:

American Society of Landscape Architects

Illumination Engineering Society of North
America

Lyndhurst Zoning Board of Adjustment

Contact Information:

619 River Drive Center 1
Elmwood Park, NJ 07407
201.398.4521 (t)
201.673.6675 (f)
slaudati@langan.com

Mr. Laudati has over 15 years of experience in landscape architecture and site planning. He has been involved in the design, management and construction of numerous projects throughout New York, New Jersey and Connecticut, and as well as projects in Central America. His project work consists of urban/ streetscape design, waterfront development, residential/ mixed-use development, school/university design, land development and green roofs. His responsibilities include site layout and planning and planting, lighting and site architecture design. He specializes in site/streetscape lighting, playground and brownfield redevelopment projects. He brings expertise in evaluating and designing projects in urban environments. His designs aim to embrace sustainable design principles with the constraints of project budgets.

Selected Projects

DMAVA Park and Hudson River Walkway, Jersey City, NJ – Project Landscape Architect for the design of this public park and waterfront walkway, which is comprised of 1,700 LF of new timber boardwalk and paved esplanade, and a 2.75-acre park. Responsible for preparing agency review drawings, and design of hardscape elements such as unit paving, curbing, pedestrian guardrails and the boardwalk.

J. Owen Grundy Park Rehabilitation, Jersey City, NJ – Project Landscape Architect for the reconstruction of 300 feet of waterfront walkway along the Hudson River, adjacent to a regional mass-transit hub. Responsibilities included the construction detailing of unit paving, decorative site lighting, site furnishings and plantings along the walkway. Also coordinated the detailing of these site features with the engineers designing the anchored steel sheet pile bulkhead, concrete pile cap, grading and extensive existing utilities.

Park at Cape May Street, Harrison, NJ – Project Landscape Architect for the design of a new five-acre park along the banks of the Passaic River as part of the 135-acre, mixed-use Harrison MetroCenter development. Tasks included design of the site layout, walkway site lighting, site amenities and planting. Also responsible for preparing detailed planting plans as part of the New Jersey Department of Environmental Protection permit application process.

Long Wharf, New Haven, CT – Project Landscape Architect involved with the master planning, landscape architecture, and site architecture design for a proposed 3.2-acre waterfront recreation development on the New Haven Harbor. The design featured the relocated historic Yale Boathouse, a new pier, courtyard and nautically inspired festival sheds. Responsible for preparation of the conceptual design of pier paving, site lighting and landscape planting.

Colgate-Palmolive Waterfront Redevelopment, Jersey City, NJ – Project Landscape Architect for the development of an attractive waterfront promenade and major infrastructure improvements, supporting a 6.5 million-SF commercial development. The project also involved the design of a new 1,100-LF anchored sheet pile bulkhead, as the existing bulkhead was in poor condition, and a new relieving platform.

Liberty State Park Picnic Grounds, Jersey City, NJ – Project Landscape Architect for the design of new picnic facilities at the southern end of the park, that includes passive open space, two new picnic pavilions and rest rooms, trails and a new parking lot, with views of the Statue of Liberty and Lower Manhattan. Tasks included design of landscape/site architectural components, and overseeing the production of contract documents and managing staff.



Steven Waldemer, PLS

Project Surveyor | Topographic / Utility / Boundary Surveying

Mr. Waldemer is an experienced survey analyst with extensive knowledge in project management and a variety of surveying techniques. His practice spans a wide range of scenarios, including projects for transportation, airports/aviation, and railway. Mr. Waldemer's area of expertise include geodetic, topographic, and boundary surveys; GIS and GPS data analysis; 3D laser scanning; and tunnel surveys. He also has significant experience in the areas of right-of-way, as-built, and construction surveys. Mr. Waldemer has a comprehensive knowledge of field and office logistics, and has been instrumental in the completion of large projects for private developers and public agencies nationwide.

Selected Projects

New York City Housing Authority, New Lane Shoreline Protection Design, Staten Island, NY – Project Surveyor in support of the shoreline stabilization of an approximately 240-foot long embankment along Upper New York Bay. A six-story apartment building is within 30 feet of the top of the embankment. The storm surge from Hurricane Sandy caused parts of the embankment to collapse and general toe erosion elsewhere. Other elements of the project included replacement of stormwater outfall, repairs to sidewalks, fence curb and fencing.

Greenpoint Landing, Brooklyn, NY– Project Surveyor in support of the major development of 20 upland acres on eight full city blocks along the East River. The project includes the design and construction of 10 residential towers, street infrastructure, a public waterfront walkway, and a pier. Performed topographic survey, subdivision plans for the full 20 acres, and additional ALTA surveys. Also provided written descriptions of the entire property outbounds, and all existing and proposed lots within the development project.

Pier 17 Redevelopment, New York, NY – Project Surveyor in support of the mater plan for the redevelopment of Pier 17 at South Street Seaport, with development plans consisting of retail space and open-air pedestrian walkways along the waterfront. Performed topographic, boundary and utility master surveys of the existing pier structure and the surround area.

Metropolitan Transportation Authority, Coney Island Rail Yard, Flood Protection, Brooklyn, NY – Project Surveyor for the design and construction of a long-term flood mitigation/resiliency system for this 75-acre rail yard complex, which was significantly damaged by Hurricane Sandy. Performed comprehensive topographic, boundary and utility surveys of the entire complex, which bordered public streets.

New York University Langone Medical Center, Various Campus Transformation Projects, New York, NY – Project Surveyor supporting a number of new development and expansion projects in this hospital complex, including the construction of the Kimmel Pavilion, Energy Building, Science Building, Emergency Department Expansion, Tisch Hospital Elevator Expansion, and flood and other natural hazard mitigation efforts. Responsible for developing campus-wide topographic and boundary surveys, as well as negotiating and establishing numerous easements throughout the campus.

Years of Experience:

20 years

Professional Registration:

Professional Land Surveyor (PLS) in NY

Affiliations:

New York State Association of Professional Land Surveyors – Member

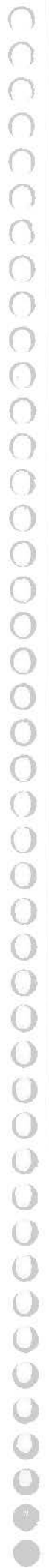
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swaldemer@langan.com





Relevant Experience



Relevant Experience



J. OWEN GRUNDY PARK REHABILITATION

Jersey City, NJ

In 2003, the existing Hudson Riverfront walkway adjacent to the J. Owen Grundy Park collapsed, exposing numerous voids beneath the walkway. Langan was contracted to provide emergency engineering services to provide a temporary design to safely allow pedestrian access to this area. Following the temporary stabilization of the collapse, Langan provided full design and construction oversight services related to the reconstruction of the bulkhead and walkway. Langan's design services included a full site survey; the design of over 300 feet of anchored steel sheet pile bulkhead and concrete pile cap; site/civil design related to grading and utilities; and landscape architecture services for the design of unit paving, site lighting, and other site architectural elements. Additionally, Langan provided the natural resource-related support to obtain the necessary U.S. Army Corps of Engineers and New Jersey Department of Environmental Protection permits for the project.

Client	City of Jersey City
Size	300 LF
Cost	\$8,000,000 (construction)
Reference	Glenn Wrigley, City of Jersey City; 201.547.5900, 575 Route 440, Jersey City, NJ 07305



184 KENT AVENUE WATERFRONT REDEVELOPMENT

Brooklyn, NY

The approximately 400,000 SF development consists of residential and commercial uses, and waterfront recreation space. The project involved the renovation and restoration of an existing six-story former industrial/warehouse building and the addition of a seventh story. The project also included the demolition of a deteriorated relieving platform, provisions for public access to, and along, the waterfront, and building stabilization and inclusion of a intertidal vegetated structure along the shoreline. Langan developed design schemes for bulkhead repairs and placement of fill behind the bulkhead. This allowed for the reconstruction of the existing building foundation and construction of a new waterfront walkway along the bulkhead. In addition, regulatory permits required to restore the site's waterfront from the United States Army Corps of Engineers, New York State Department of Environmental Conservation, and New York City Department of City Planning were obtained.

Client	JMH Development
Size	400,000 SF (Total Development)
Cost	\$410,000 (Langan fee)
Reference	Glen Ravn, Great Northern Consulting Co. (Formerly with JMH Development); 917.797.7464, PO Box 252, Rockville Centre, NY 11570

Relevant Experience



COLGATE-PALMOLIVE WATERFRONT REDEVELOPMENT

Jersey City, NJ

After 150 years of industrial use, Colgate-Palmolive had a vision to redevelop the project site into a world class commercial center. This required major infrastructure improvements and the construction of an attractive waterfront promenade to support the 6.5 million-SF development. Langan provided geotechnical, structural, site/civil, environmental and traffic engineering, and landscape architecture services. The condition of the existing bulkhead was poor and falling into the Hudson River in some areas. A new 1,100-LF anchored sheet pile bulkhead was designed to protect the shoreline, and a 1,000-LF, 8-ft x 10-ft box culvert manifold was designed to collect the flow from four existing regulating chambers and direct the flow to a new netting chamber prior to discharge. A new relieving platform was designed to reduce the size of the steel sheets required and to support the box culvert manifold. Three pile-supported scenic outlooks were also designed along the waterfront promenade.

Client	Colgate-Palmolive Company
Size	1,100 LF
Cost	\$13,500,000 (construction)
Reference	Louise Matthews, Bacardi (formerly with Colgate-Palmolive; 212.370.7520, 200 Park Avenue, New York, NY 10166



SCENIC HUDSON PARK AT PEEKSKILL LANDING*

Peekskill, NY

Chuck Utschig and Michael Finan were retained by the City of Peekskill to develop construction documents and specifications for this multi-use park facility that includes walking trails, a gazebo and trellis, an elevated boardwalk overlooking the Hudson River, kayak launch, and pedestrian bridge. They were responsible for site/civil, geotechnical, marine, and structural engineering services, and landscape architecture and permitting services. A key aspect to the development of this recreational space was the complex permitting process. Messrs. Utschig and Finan prepared, processed and secured required permit approvals from the NYSDEC and US Army Corps of Engineers, which included a coastal consistency determination and a flood prevention analysis.

Client	City of Peekskill
Size	12 acres
Cost	\$3,600,000 (construction)
Reference	Anthony Ruggiero, City of Peekskill; 914.737.3400, 840 Main Street, Peekskill, NY 10566

*Note: This project represents the individual professional experience of Charles Utschig and Michael Finan, who performed this work while employed with another consulting firm.

Relevant Experience



DMAVA PARK AND HUDSON RIVER WALKWAY

Jersey City, NJ

Langan designed the DMAVA Park project for the NJDEP, including 1,600 linear feet of new Hudson River Waterfront Walkway, a new bulkhead and waterfront esplanade, a new timber boardwalk, and a 3-acre park along the Morris Canal Basin, across from Liberty State Park. The first phase of the project included the new timber boardwalk, a rip-rap protected shoreline pathway with a kayak launch and other recreational features, and the heavy construction for the park bulkhead, including surcharged soil improvements for the planned attractive waterfront promenade. During construction, Langan provided construction administration and on-site construction management services. Langan also provided continuous construction inspection services.

Client	New Jersey Department of Property Management and Construction
Size	1,600 LF
Cost	\$13,500,000 (construction)
Reference	Richard Herrero, State of New Jersey Department of the Treasury; 609.292.6558, 20 West State Street, 3rd Floor, Trenton, NJ 08625



BUSH TERMINAL BULKHEAD REHABILITATION

Brooklyn, NY

The New York City Economic Development Corporation is planning for a major overhaul of the complex's truck routing, which required the rehabilitation of the failing bulkheads and the extension of a 100-year-old, six-foot diameter brick combined sewer outfall (CSO).

Langan completed a geotechnical investigation and a bulkhead investigation prior to start of the design process. Our bulkhead rehabilitation plans were developed to meet the planned revised truck routing and to minimize the construction effort. As part of value engineering design effort, we designed the new bulkhead for the area around the CSO to consist of cantilevered sheet piles that were laterally supported by riprap placed on the exterior. The existing timber sheeting bulkhead to the south was covered in geotextile and had riprap placed against it. Langan successfully obtained NYSDEC and USACE wetland permits to authorize project waterfront work. To mitigate the landward extension of the bulkheads, part of the decaying platform that was outboard of the project bulkhead was partially removed (the remainder is being "banked" for future use).

Client	New York City Economic Development Corporation
Size	260 LF
Cost	\$143,500 (Langan fee)
Reference	Greg Clancy, RXR Realty (formerly with NYCEDC); 917.575.0714; 1330 Avenue of the Americas, Suite 500, New York, NY 10019

Relevant Experience



HUNTS POINT BULKHEAD REHABILITATION

Bronx, NY

Langan provided survey, waterfront engineering, geotechnical engineering, demolition design, permitting and construction oversight for the rehabilitation of about 1,000 feet of deteriorated East River waterfront on a Manufactured Gas Plant brownfield. A new combined rip-rap and concrete bulkhead was constructed and will be incorporated into a public esplanade. The bulkhead was designed to prevent wave overtopping during a 100 year storm and survive seismic loading. Langan prepared the federal and state waterfront permit applications required for this work. Langan also prepared contractor bid packages and evaluated the submitted proposals.

Client	New York City Economic Development Corporation
Size	3,000 LF
Cost	\$1,000,000 (construction)
Reference	Greg Clancy, RXR Realty (formerly with NYCEDC); 917.575.0714; 1330 Avenue of the Americas, Suite 500, New York, NY 10019



GOWANUS CANAL BULKHEAD REPLACEMENT

Brooklyn, NY

Benson Scrap Metal is an active metal yard located along 175 feet of the wester side of the Gowanus Canal. The existing bulkhead is listed as a historic structure and is in poor condition, due to the deterioration of the timber elements of the bulkhead. Langan is providing geotechnical engineering, bulkhead design and waterfront permitting for bulkhead replacement. Our scope included a "swim-by" inspection of the bulkhead to assess the existing condition, a subsurface investigation to determine subsurface soil conditions, design of remedial measures to protect the bulkhead, and design of a new anchored steel sheet pile bulkhead. The new bulkhead was designed to replace existing bulkhead and accommodate the United States Environmental Protection Agency's (USEPA) proposed clean up activities. USEPA helped secure regulatory approvals, which would have been difficult to obtain without their assistance.

Client	Benson Scrap Metal
Size	175 LF
Cost	\$304,000 (Langan fee)
Reference	Larry Petrosino, Benson Scrap Metal; 718.722.7754, 543 Smith Street, Brooklyn, NY 11231

Relevant Experience



THE BOATHOUSE AT CANAL DOCK

New Haven, CT

Langan is the prime consultant for the City of New Haven's state and federal funded Canal Dock and Long Wharf Park projects. Projects will include the construction of a one-acre pile-supported platform, a 30,000-SF Community Boathouse, the stabilization and reconstruction of over 1,500 LF of shoreline, and the revitalization of Long Wharf Park.

Langan's responsibilities include overall project management, geotechnical, site/civil, and structural engineering, as well as surveying and regulatory permitting with the Connecticut Department of Energy and Environmental Protection and United States Army Corps of Engineers. As part of our work, Langan performed a water-born geotechnical investigation of the subsurface soil underlying New Haven Harbor, upland boring and test pit investigation, and existing sheet pile bulkhead evaluation.

Client	New Haven City Plan Department
Size	30,000 SF (Community Boathouse); 1,500 LF (shoreline)
Cost	\$37,000,000 (construction)
Reference	Donna Hall, City of New Haven Economic Development; 203.946.7842, 165 Church Street, 4R, New Haven, CT 06510



155 WEST STREET WATERFRONT REDEVELOPMENT

Brooklyn, NY

The project consists of the development of a 36-story high-rise tower, two 12-story low-rise buildings and waterfront recreation space, on a site along the East River in the Williamsburg section. Completed work includes land and water geotechnical subsurface investigations and foundation design, pier/bulkhead evaluation, Phase I and II Environmental Site Assessments, hazardous materials site assessment, and conceptual engineering design of the site utilities. In addition, we prepared and submitted the regulatory permits from various federal, state and city agencies that are required for the waterfront rehabilitation. Currently we are developing the structural engineering design of the new bulkhead and wharf replacement.

Client	Palin Enterprises
Size	120,000 SF (total development)
Cost	Not Available
Reference	Dean Palin, Palin Enterprises; 212.253.5000, 235 Park Avenue South, 8th Floor, New York, NY 10003

Relevant Experience



SOUTH LLOYD STREET BULKHEAD

New Haven, CT

Langan is providing bulkhead design services for a 900-foot stretch of public waterfront. The site plans include an 800-foot-long sheet pile bulkhead, boat launch, and outfall. An engineering firm had prepared design documents for a new sheet pile bulkhead, but the new bulkhead started to overturn shortly after construction was started. Langan was asked to provide a peer review of the implemented design. We identified in the provided design documentation that the design engineer incorrectly derived the soil properties, resulting in the selection of an inappropriate design. Langan provided plans that allow the utilization of the previously purchased sheet piles by adding intermediate “king pile” sheets and a tieback and waler system.

Client	City of New Haven Economic Development
Size	900 LF
Cost	Not Available
Reference	Helen Rosenberg, City of New Haven Economic Development; 203.946.5889, 165 Church Street, 4R, New Haven, CT 06510



FEDEX DISTRIBUTION FACILITY

Long Island City, NY

Langan’s multi-disciplined team provided services in support of the development of an 8.8-acre distribution facility along Dutch Kills, a tributary of Newtown Creek. Marine engineers evaluated the structural condition of the site’s relieving platform and sheet pile bulkhead. Langan designed and oversaw the stabilization of the relieving platform, which consisted of filling the voids under the platform with flowable fill. We will provide oversight during mitigation activities, which involved the removal of hazardous debris from a tidal flat at a nearby public park.

Client	SunCap Property Group, LLC
Size	140,000 SF (total development)
Cost	\$56,000,000 (construction)
Reference	Flint McNaughton, SunCap Property Group; 704.945.8005, 6101 Carnegie Boulevard, Suite 180, Charlotte, NC 28209

Relevant Experience

DEMONSTRATION OF ESTIMATING ACCURACY

The following information is provided by subconsultant Ellana, who will provide cost estimation services:

PROJECT NAME	OWNER	ESTIMATED COST	LOW BID	FINAL CONSTRUCTION COST
SUNY Maritime College, Rehabilitation/Upgrade of HVAC System, Bronx, NY	The Dormitory Authority of the State of New York	\$4,600,000	\$4,450,000	\$4,600,000
PS 89K, Brooklyn, NY	New York City School Construction Authority	\$31,950,000	\$34,000,000	\$32,000,000
Eagle Academy High School, Bronx, NY	New York City School Construction Authority	\$40,000,000	\$41,200,000	\$39,200,000
Western Connecticut State University, Visual and Performing Arts Center, Danbury, CT	Western Connecticut State University	\$74,478,000	\$72,100,000	\$74,000,000
CHOATE Rosemary School, New St. John Hall, Wallingford, CT	CHOATE Rosemary School	\$13,412,000	\$13,696,244	\$13,000,000
SUNY Stony Brook University, Life Science Building Mechanical Systems Upgrade, Stony Brook, NY	The Dormitory Authority of the State of New York	\$13,764,000	\$13,267,000	\$14,000,000





Appendix A: Qualification Documentation



**THE UNIVERSITY OF THE STATE OF NEW YORK
EDUCATION DEPARTMENT**

THIS IS TO CERTIFY THAT HAVING MET THE REQUIREMENTS OF SECTION 7210 OF THE EDUCATION LAW AND IN ACCORDANCE THEREWITH THIS CERTIFICATE OF AUTHORIZATION IS GRANTED WHICH ENTITLES

**LANGAN ENGINEERING ENVIRONMENTAL SURVEYING AND
LANDSCAPE ARCHITECTURE DPC
619 RIVER DRIVE CENTER
4TH FLOOR
ATTN MR DAVID T GOCKEL
ELMWOOD PARK, NJ 07407-1338**

TO PROVIDE PROFESSIONAL ENGINEERING SERVICES IN THE STATE OF NEW YORK FOR THE PERIOD 08/01/2012 TO 07/31/2015.

Douglas E. Lentivech

DOUGLAS E LENTIVECH
DEPUTY COMMISSIONER
FOR THE PROFESSIONS

CERTIFICATE NUMBER
0009629



John B. King Jr.

JOHN B KING JR
PRESIDENT OF THE UNIVERSITY
AND COMMISSIONER OF EDUCATION

**THE UNIVERSITY OF THE STATE OF NEW YORK
EDUCATION DEPARTMENT**

THIS IS TO CERTIFY THAT HAVING MET THE REQUIREMENTS OF SECTION 7210 OF THE EDUCATION LAW AND IN ACCORDANCE THEREWITH THIS CERTIFICATE OF AUTHORIZATION IS GRANTED WHICH ENTITLES

**LANGAN ENGINEERING ENVIRONMENTAL SURVEYING AND
LANDSCAPE ARCHITECTURE DPC
619 RIVER DRIVE CENTER
4TH FLOOR
ATTN MR DAVID T GOCKEL
ELMWOOD PARK, NJ 07407-1338**

TO PROVIDE LAND SURVEYING SERVICES IN THE STATE OF NEW YORK FOR THE PERIOD 08/01/2012 TO 07/31/2015.

Douglas E. Lentivech

DOUGLAS E LENTIVECH
DEPUTY COMMISSIONER
FOR THE PROFESSIONS

CERTIFICATE NUMBER
0009630



John B. King Jr.

JOHN B KING JR
PRESIDENT OF THE UNIVERSITY
AND COMMISSIONER OF EDUCATION

*The University of the State of New York
Education Department
Office of the Professions*

REGISTRATION CERTIFICATE

Do not accept a copy of this certificate

License Number: 063718-1

Certificate Number: 8545733



**BIESIADDECKI GREGORY LEON
220 WASHINGTON DRIVE
WATCHUNG NJ 07069-0000**

is registered to practice in New York State through 06/30/2017 as a(n)
PROFESSIONAL ENGINEER

LICENSEE/REGISTRANT


EXECUTIVE SECRETARY


COMMISSIONER OF EDUCATION


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FOR THE PROFESSIONS

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REGISTRATION CERTIFICATE
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License Number: 093150-1

Certificate Number: 8413750

HUBER KENNETH ANDREW
APT B
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NEW PROVIDNCE NJ 07974-2941

is registered to practice in New York State through 11/30/2016 as a(n)
PROFESSIONAL ENGINEER



LICENSEE/REGISTRANT



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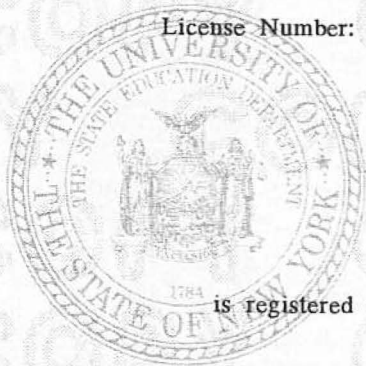
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Office of the Professions

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Certificate Number: 8835672

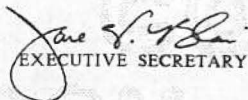


JUNCOSA BRYAN JOSEPH
445 PEPPERIDGE TREE
LANE
KINNELON

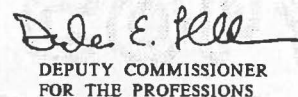
NJ 07405-0000

is registered to practice in New York State through 02/28/2018 as a(n)
PROFESSIONAL ENGINEER

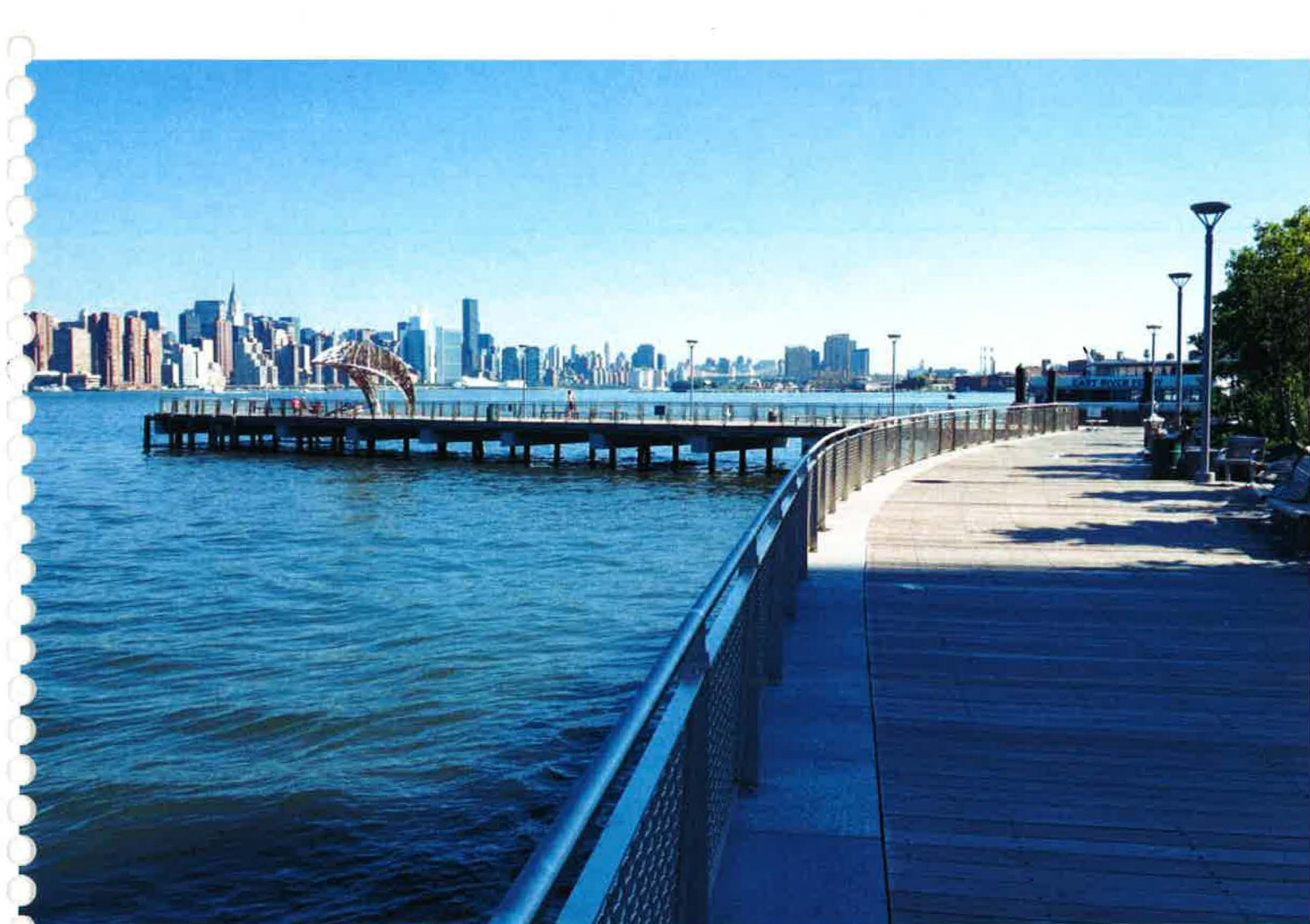
LICENSEE/REGISTRANT


EXECUTIVE SECRETARY


ACTING COMMISSIONER OF EDUCATION


DEPUTY COMMISSIONER
FOR THE PROFESSIONS

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Appendix B: Insurance





CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

3/13/2015

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Greyling Insurance Brokerage 450 Northridge Parkway Suite 102 Atlanta GA 30350	CONTACT NAME: Jerry Noyola
	PHONE (A/C No. Ext): (770) 552-4225 FAX (A/C No.): (866) 550-4082
	E-MAIL ADDRESS: jerry.noyola@greyling.com
INSURER(S) AFFORDING COVERAGE	
INSURER A: Zurich American Insurance	NAIC # 16535
INSURER B: American Guarantee & Liability	26247
INSURER C: Alterra Excess & Surplus Ins.	33189
INSURER D:	
INSURER E:	
INSURER F:	

INSURED
Langan Engineering, Environmental,
Surveying & Landscape Architecture, D.P.C.
619 River Drive Center 1
Elmwood Park NJ 07407

COVERAGES CERTIFICATE NUMBER: 14-15 (Langan D.P.C.) REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	GENERAL LIABILITY <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR			GLO9242433-02	4/1/2014	4/1/2015	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 300,000 MED EXP (Any one person) \$ 5,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input checked="" type="checkbox"/> LOC						
A	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO ALL OWNED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS			BAP9242432-02	4/1/2014	4/1/2015	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
	<input checked="" type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS						
B	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> EXCESS LIAB			AUC-9242434-02	4/1/2014	4/1/2015	EACH OCCURRENCE \$ 12,000,000 AGGREGATE \$ 12,000,000
	<input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> CLAIMS-MADE DED <input checked="" type="checkbox"/> RETENTION \$ 0						
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below			WC9242431-02	4/1/2014	4/1/2015	<input checked="" type="checkbox"/> WC STATUTORY LIMITS <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
	Y/N <input checked="" type="checkbox"/> N N/A						
C	Professional Liability E&O-Incl. Pollution Liab.			MAX7PL0001189	4/1/2014	4/1/2015	Per Claim \$5,000,000 Aggregate \$5,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

CERTIFICATE HOLDER

CANCELLATION

For Proposal Only

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

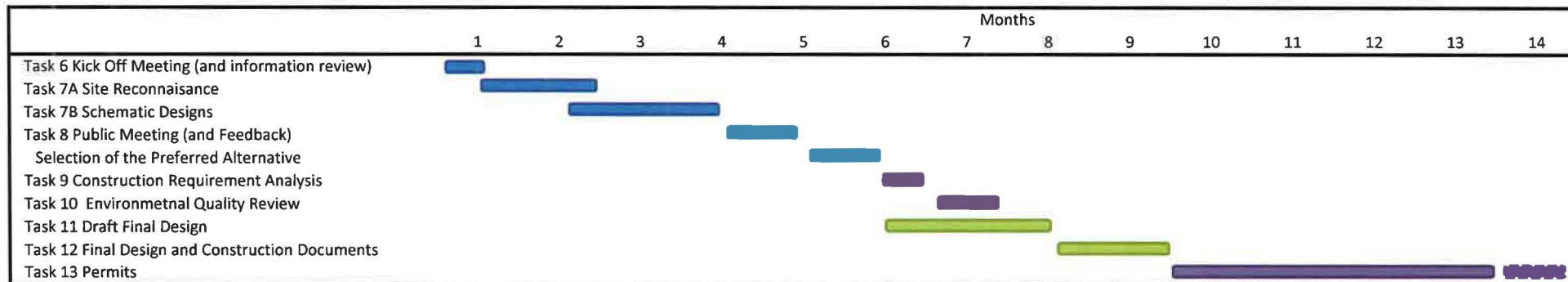
Gregg Bundschuh/JERRY



Fee Proposal

Task 6, Kick Off Meeting	\$10,000
Task 7, Site Reconnaissance and Schematic Designs	100,000
Task 8, Public Meeting	18,000
Task 9, Construction Requirement Analysis	10,000
Task 10, Environmental Quality Review	22,000
Task 11, Draft Final Design	90,000
Task 12, Final Design and Construction Documents	40,000
Task 13, Permitting	<u>40,000</u>
TOTAL	330,000
ADD ALTERNATE: Subsurface Investigation and Report	68,000

Schedule





Proposal For:

The Village of Port Chester Collapsed Bulkhead Design and Construction Plans



Submitted by The Office of



Due Date :
March 16, 2015
4:00 PM



bridge, highway & rail engineering
entertainment engineering
subaqueous investigation
civil & site engineering
structural design
marine facilities
geotechnics
surveying
forensics

March 16, 2015

Village of Port Chester – Village Hall
222 Grace Church Street
Port Chester, New York 10573

Attn: Christopher Steers
Village Manager

Re: Design and Construction Plans for Repair of Byram River Bulkhead - RFP No: RFP-VP-1000444 - McLaren File No. 150163

Dear Mr. Steers:

M.G. McLaren P.C. (McLaren) is pleased to submit one (1) original, and ten (10) copies, of our proposal to provide engineering consulting services for the subject project. Based on our unique experience and qualifications, we strongly believe that we are ideally suited to provide the highest level of engineering services to the Village of Port Chester; hereinafter referred to as the "Village."

McLaren is eager to meet or exceed your needs, preferences and requirements on this contract based on but not limited to the following key attributes:

- **38 Years of Engineering Excellence...**McLaren possess a 38-year history of providing full design, engineering, and inspection services that includes bridges, roadways, structures of all types, waterfront facilities, site/civil, and surveying for clients in both the public and private sector. Our portfolio features over 12,000 projects with various degrees of complexity.
- **Marine Design and Engineering Expertise...**Our experienced staff of marine and ocean engineers possesses expertise in design of all types of marine structures, including dams, piers, wharves, bulkheads, floating docks, and floating terminals, built to different criteria for numerous applications. We are familiar with both traditional and advanced materials and various methods of construction, costs, specifications, and means of analysis.
- **In House Dive Teams...**McLaren is able to mobilize up to six (6) fully equipped dive teams upon a moment's notice. Our Team Leaders are On-Staff P.E. Licensed Inspectors/Divers, and all of our Inspectors/Divers are NBIS and ADCI Certified. They are specialists in low visibility and cold weather dive inspections of dams, culverts, and bridges, and have considerable experience in the inspection of internal pipes utilizing ROVs and the latest in underwater videography and photography.
- **In House Geotechnical Expertise...**Our in-house Geotechnical Engineer has over 20 years of experience in the development of boring plans and specifications, geotechnical engineering and reporting, design development, development of construction documents, and construction phase services.
- **Marine Geotechnical Expertise...**Having installed over a thousand marine structures, we are well aware of the peculiarities of obtaining borings on the water with barge mounted equipment. Further we are well schooled in interpreting the result of such investigations and developing appropriate design parameters for both vertical and lateral loads.
- **Construction Inspection & Management Expertise...**McLaren's team of expert marine engineers is extremely familiar with design and construction of waterfront structures. Our exceptional knowledge of all types of marine structures – bulkheads, piers, ferry terminals, berthing systems, etc. – and our long history of working closely with many waterfront development/rehabilitation projects makes

Offices: New York, Maryland, Florida, Connecticut, California

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Alabama • Arizona • Arkansas • California • Colorado • Connecticut • Delaware • District of Columbia • Florida • Georgia • Hawaii • Idaho • Illinois
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New Hampshire • New Jersey • New Mexico • New York • North Carolina • Ohio • Oklahoma • Oregon • Pennsylvania • Rhode Island
South Carolina • Tennessee • Texas • Trinidad & Tobago • Utah • USVI • Vermont • Virginia • Washington • West Virginia • Wisconsin • Wyoming

M.G. McLaren P.C.

100 Snake Hill Road
West Nyack, NY 10994

Phone (845) 353-6400

Fax (845) 353-6509

e-mail: mgmclaren@mgmclaren.com

On the web: www.mgmclaren.com

March 13, 2015

McLaren qualified to offer resident engineering and construction management services during the construction of the Port Chester bulkhead.

- **"APPLIED INGENUITY"**...The motto, goal and indeed, mantra at McLaren is "Applied Ingenuity." It is our intent to be ever improving - exploring new solutions to old problems and constantly striving to serve our clients better. We will never rest on our accomplishments nor will we be satisfied with what we did yesterday. Ours is a determination to perform better than we did on the last project.

McLaren has a continuing interest in supporting the opportunities for businesses certified as minority or women owned by the New York State Department of Economic Development. We augment our staff and capabilities for this assignment with the able assistance of our subconsultants, listed below.

- **Elizabeth Kennedy Landscape Architect, PLLC (EKLA) MBE/WBE Certified**...is led by Elizabeth Kennedy, RLA, ASLA. Ms. Kennedy's planning and design approach is based on a clear analytical perspective that derives from construction industry experience, training in environmental psychology and landscape architecture, and the practical insights of a small business owner. What distinguishes her thinking is the diversity of her background - it introduces an alternate point of view that influences clients to think differently about landscape architecture and its possibilities.
- **Historical Perspectives, Inc. (HPI) WBE Certified**...is a cultural resources consulting firm that offers a wide variety of services from SEQR compliance for cultural resources, Section 106 coordination, archival research and archaeological reconnaissance surveys to visual impact analysis and historic structures recordation. Specialists in producing assessments for environmental review procedures, HPI has been in business for over thirty years. HPI is fully qualified to record sites to Historic American Engineering Record (HAER) and Historic American Buildings Survey (HABS) levels, as required by many federally-funded projects.
- **Jersey Boring and Drilling (JBD) WBE Certified**...is a fifth generation, family owned business that provides geotechnical, environmental drilling and sampling services includes Test borings, Well installations, Geotechnical instrumentation installations, Concrete and asphalt coring, and Maintenance and protection of traffic. They have worked with us on many projects throughout New York.
- **Setty & Associates, Ltd. PC (Setty) MBE Certified**...is a full service engineering firm, now in its 30th year. Their professionals include electrical, mechanical, plumbing, fire protection, commissioning and controls engineers. Offered services include condition assessments, design programming, design, design-build, RFP development, construction management, and commissioning services.

McLaren strongly believes that our qualifications and corporate depth meet your requirements and will provide the Village with technically sound, and cost efficient design solutions. We look forward to providing our services on this contract and further developing our professional relationship with you. Please do not hesitate to contact me at (845) 353-6400 or wmccarthy@mglmclaren.com, if you have any questions or require any additional information.

Very truly yours,

The Office of
M.G. McLaren, P.C.



William J. McCarthy, III
Director of Business Development

Enclosures

cc: File 150163, WJM

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M.G. McLaren, P.C.

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COST PROPOSAL (SEPARATE ENVELOPE)

Section 1

Project Understanding & Approach

The Village of Port Chester (the “Village”) is seeking to retain a professional engineering consultant to provide inspection, design and construction phase services for the “stabilization” of the bulkhead section along the Byram River, with an “Activity Node.” McLaren Engineering Group’s (McLaren) extensive experience in the design of **public access** marine and waterfront structures, forensics analysis of failure, along with our expertise in waterfront construction administration and inspection, will allow us to provide a safe, well-timed, and economic response to the Village. Moreover, McLaren is intimately familiar with this project site, having inspected the bulkhead pre- and post-collapse, with schematic designs submitted. For this phase, we will provide a design that considers compliance with applicable building codes and design guides, constructability, serviceability, integration into the community, and durability in the marine environment.

McLaren’s understanding of the project scope and familiarity with the site is predicated on the following:

- Review of the Village of Port Chester RFP dated February 9, 2015;
- Extensive experience with the inspection and design of all types of public access waterfront structures including piers, piles, bulkheads, ferry terminals, wharves and more over the last three decades by the same McLaren Inspectors that will be assigned to this project;
- Extensive experience in the management and integration of the waterfront into the collective Local Waterfront Revitalization Plans (LWRP).

It is understood that the main objective of this project is to analyze and provide a design to stabilize the bulkhead, avoid future failures, and provide a waterfront activity node. It is intended that the bulkhead be brought back to a level of quality, safety, durability, and reliability that meet the Village’s needs, requirements and preferences. To that end, stabilization of the bulkhead may not be the most economical and long term solution; McLaren will evaluate complete replacement options as part of this work. McLaren’s expertise in waterfront structural design, constructability, serviceability, and construction administration/inspection will contribute significantly to the safe and economic repair design. In addition, McLaren has gained tremendous experience regarding site access, tide, currents, debris, boat traffic, permit requirements, and security. Our knowledge and understanding of the issues involved with this project are summarized below.

KEY ISSUES

Integration...The integration of the structure and promenade into the LWRP and the surrounding community on both sides of the river is absolutely paramount. What the structure is will determine its future use, for good and bad, and can dramatically affect the public’s access to the water.

Project Team...McLaren’s project team, with Elizabeth Kennedy Landscape Architect, PLLC (EKLA) brings strength in interpretive programming and design – an attribute central to developing a richly diverse open space solution as the activity node. Port Chester’s Byram River, once the driver of the Village’s economic fortunes, exerts an emotional tug on all who explore it, as even today, within a short distance, one can quickly gain a physical sense of the Village’s history and imagine how the timeline of the river’s use led to the contemporary mix of picturesque, industrial and civic places along its edge. Activating any point, or node, along the section of waterfront restored under this project should involve some level of controlled, safe community engagement with the water. Access can be visual, where the river forms a backdrop to activities staged before it; or physical, where, through a series of “get-downs” people can make their way down to water level, at mean high tide or lower. Providing opportunities for both organized and informal public use has proved critical to the success of community open space redevelopment, and it will be the McLaren Project Team’s intent to ensure that the final design approach to the shoreline restoration embraces this principle.

The project can result in a riverfront stretch that will function more broadly as an ecological, recreational and educational resource better integrated with the nearby downtown area and the Village’s burgeoning cultural food and arts scenes, if a mix of shoreline restoration techniques are considered. Techniques can be appropriate to specific situations: for example, bulkheads can be implemented along industrialized waterfront to be restored, while revetment treatments can be used to expand possibilities for passive recreation. How these, and opportunities to re-incorporate lost pleasure-craft berths, will be studied as part of overall program development.

EKLA and McLaren will first develop three shoreline stabilization/restoration concepts, each with distinct approaches to waterfront use programming. The concepts will fall within the parameters of the LWRP, and

incorporate easily achieved urban design approaches that can be used to extend the approved restoration approach as a system beyond the project's work limits. EKLA will also draft a public engagement plan to solicit targeted public input. A final schematic-level project-specific master plan will be developed from responses to the concepts and Village directives; this will also determine the final scope of permitting required to restore the project shoreline.

EKLA will continue to work closely with McLaren to configure restoration profiles section by section, so that detailed designs – particularly in the instance of a richly diverse programming and restoration approach – can be aggressively advanced. Where possible, landscape designs will integrate green infrastructure and stormwater management strategies in the design approach to strengthen main street connections to the riverfront.

Coordination...At the heart of the McLaren team's approach is a series of working sessions that will include key Village staff, members of the Project Advisory Committee, the LWRP and the consultant team as well as representatives of other agencies, users, and community members at the discretion of the Village. We believe this type of collaborative and interactive effort is critical given the importance of building community support, securing the necessary approvals, and ensuring timely and cost effective completion of the work. The objective of the interactive workshop sessions will be to set realistic goals, establish priorities, and develop a clear and unified conceptual approach that has the enthusiastic support of the project team and the community. A detailed description of our proposed process and work tasks follows a bit further in this proposal section.

Schedule...McLaren efforts will focus on establishing and maintaining communication between our Subconsultants, the Village, property owners and all involved parties. Utilizing up-to-date scheduling software, including Microsoft Project®, McLaren will prepare and coordinate a plan that stays on schedule while allowing time to resolve any issues that may arise or delay the project. The Project Manager will be responsible for determining the schedule impacts and providing the Village with an analysis, revised schedule, justifications for time adjustment, and solutions for mitigating the delays and maximizing early completions in the master schedule.

Durability...The materials selected for the construction must be durable and low maintenance; and the design parameters, such as the design event and structural loading established at the onset of the project will be used to verify and confirm the durability of the proposed design. The design details and materials specified for the project shall be long-lasting, easily repaired and maintained, and have as low first cost as possible. McLaren believes that there is an opportunity to redesign the area to minimize the impact of wakes on the river while allowing for greater life span of the structure.

Geotechnical Stability...It will be imperative that the design of the mitigated system consider the geotechnical stability in vertical settlement, sliding and overturning. Specific attention should be given to the geotechnical stability during high erosion and scour events associated with flood and storm events. The current bulkhead has already failed, so the site constraints are significant; the structure must be able to conform and extend the shoreline stability for a significant amount of years. It may be that "stabilizing" the bulkhead is not the correct solution, and that a complete replacement and re-design would be more effective and match the goals of the LWRP better.

Constructability...The constructability of a waterfront structure shall always be considered during the design process and development of the construction documents. McLaren knows, through our experience, that waterfront construction is impacted by many factors such as tidal changes and sometimes difficult or limited site access. It also means the integration into the natural surroundings and activities on the waterfront. McLaren will provide a design that can accommodate these conditions and allow for an efficient and simplified installation process.

Timely Permits...McLaren will identify all required environmental permits as part of our effort. It is our experience that early communications with regulatory agencies and other agencies having jurisdiction over the project is vital to the successful and timely completion of a project. Improperly or incomplete permit applications can lead to significant delays in the construction schedule. McLaren has a demonstrated history of providing expert, timely permitting services for waterfront projects throughout New York State. The integration of the public access, landscaping approaches, and maximization of water surface/water quality are all involved with this phase.

PROJECT APPROACH

McLaren will develop a well-integrated program to properly address these concerns ensuring a successful project both in the short-term and the long-term. McLaren will follow all scope of work guidelines and requirements clearly described in the RFP. This scope of work will not be reiterated herein. The execution of the project will be performed in a series of sequential, yet integrated tasks as follows:

- Task 6 – Kick Off Meeting
- Task 7 – Site Reconnaissance and Schematic Designs
- Task 8 – Public Meeting
- Task 9 – Construction Requirement Analysis
- Task 10 – Environmental Quality Review
- Task 11 – Draft Final Design
- Task 12 – Final Design and Construction Documents
- Task 13 – Permitting

TASK 6 – KICK OFF MEETING

As a first step towards developing an efficient Project program, McLaren will initiate a kick-off meeting with the Village to ensure a clear understanding of the project's goals and objectives but more importantly to gain a complete understanding of the needs, preferences and requirements of the Village. This kick-off meeting will also serve to open lines of communication between McLaren and the Village. It is our goal that these lines of communication remain open throughout the duration of the Project.

McLaren will prepare the minutes of this and all meetings and issue them to all appropriate parties within five business days of the meeting.

TASK 7 – SITE RECONNAISSANCE AND SCHEMATIC DESIGNS

McLaren will perform a site investigation of the bulkhead and "Activity Node" area to gain an intimate knowledge of the project site which include its design issues and constraints relative to this contract and the Village's prescribed scope of work. During the site visit McLaren will obtain information that is determined missing or unavailable after completion of Task 6. McLaren will take necessary field measurements to compensate for missing information.

McLaren will meet with and interview appropriate parties that will be affected by this project to make certain we possess a clear understanding of the project requirements, needs and preferences of all those involved. We will gain a complete understanding of existing concerns, issues, problems and functional programs directly related to the site. Site investigations will include:

- Existing above and below ground infrastructure; including stormwater treatment structures
- Pedestrian and Vehicular circulation
- Analysis at shore connection to existing circulation systems
- Adjacent land and water uses
- Above and below water inspections
- Historic and Archeological resources
- Soil analysis; Core Sampling and Testing
- Topographic Survey
- Hydrographic Survey
- Site survey showing extent of project boundary
- Ownership/grant/lease status of all lands to be incorporated into the design
- Manmade structures, buildings, or facilities on or adjacent to the site
- Natural resources, including location of mature trees
- View corridors
- Zoning and other applicable designations
- Analysis of site constraints, needs and opportunities
- Environmental conditions and other ecological elements
- Environmental loadings including wind, wave and tide
- Linkage to existing communities

Task 7.1 – Survey

McLaren will provide a hydrographic, topographic, and property survey of all lands proposed to be included in the Activity Node and waterfront promenade, as well as the landside area within 25 feet and any area between public lands and the mean low water line. The survey will include the following information:

- Topographic survey with one foot contours. Survey will be to low tide elevation.
- Hydrographic surveys will be limited to the areas determined to require slope/shoreline stabilization. This survey will be performed before completion of the Conceptual Phase as water depths and limits of the collapse are significant to the concepts and re-design.
- Ownership/grant/lease status of all lands to be incorporated into the design.
- All manmade structures, building or facilities on or within ten feet of the public promenade right-of-way.
- Above and below ground infrastructure, including stormwater management structures.
- Locate trees greater than 4-inches DBH.

Task 7.2 – Inventory and Data Gathering

Site reconnaissance and research will be conducted to develop general site, context and user information. Using the topographic survey developed in Task 7.1 we will prepare a project base plan drawing that will be used as a basis for the planning and design work.

- a. **Background Research:** Any existing information about the site will be reviewed and summarized. In particular, we will make note of information developed during previous site master planning efforts and the previous design/construction of the bulkhead and esplanade.
- b. **Context:** Off-site issues relevant to the project will be identified including access and circulation, adjacent land uses, view corridors, transportation and pedestrian connections and general neighborhood context. Existing zoning will be identified and mapped.
- c. **Site Conditions:** Important existing features including general topography, slope conditions, drainage patterns, surface water and wetlands, rock outcroppings, vegetation, and wildlife patterns will be identified and mapped. Existing structures as well as known infrastructure will be identified. A vegetative survey will be conducted to assess native and non-native plant occurrences on the site as well as to locate trees greater than 4-inches DBH. McLaren will inspect the shoreline and make a determination as to the degree and extent of stabilization that will be required and provide a summary of our findings.
- d. **Infrastructure:** The consultant team will review any available relevant utility records that can be supplied by the Village. A field investigation will be conducted to verify the location and identity any visible surface utilities and to reconcile all discrepancies with the existing documentation.
- e. **Regulatory Issues:** Pertinent ADA Standards, applicable codes, and environmental regulations will be identified as well as the requirements for any necessary permits and approvals. In particular, NYS DEC/USACOE application and permitting requirements will be identified and incorporated in the park planning criteria.

Task 7.3 - Phase 1 Environmental Site Assessment

McLaren will perform a Phase I Environmental Site Assessment (Phase I ESA) of the bulkhead collapse. The Phase I ESA will be performed in accordance with the American Society of Testing and Materials (ASTM) – *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* (E 1527-05) and will consist of the following tasks:

- A site reconnaissance to identify obvious visual signs of contamination and/or potential sources of hazardous materials;
- A review of prior site uses for at least the past 50 years through review of Sanborn Maps and/or historic aerial photography as available;
- Determination if the fill lost during the collapse impacts the waterway, soil samples and testing will have to be undertaken as part of this phase;
- A review of available Federal, State, and local agency environmental records provided by a commercial database firm to identify documented hazardous waste activity or environmental non-compliance at the subject property and surrounding properties;

- A statement regarding the suspected presence of asbestos containing materials based on a preliminary visual inspection of readily accessible areas;
- Review of records concerning the presence or past existence of underground or aboveground storage tanks (USTs/ASTs);
- Where possible, interviews with personnel/local officials that have firsthand knowledge of the sites; and,
- Utilize all existing, relevant information that may be available from the Village of Port Chester including previous designs and sheetpile driving records.

McLaren will prepare a Draft and a Final Phase I Environmental Site Assessment (ESA) Report for the project area that will present any potential or known adverse environmental conditions. Asbestos sampling and analysis and a lead paint survey are not included in this scope of services as the existing structure was reconstructed post 2000.

Task 7.4 – Geotechnical Investigation

The geotechnical investigation will focus on the stability of soils and elevation of bedrock especially relative to the shoreline for all lands under control of the Village and proposed to be part of the Activity Node and promenade.

McLaren will assemble and review all available subsurface information, both marine and upland, provided by the Village for the proposed sites. Following our review of available information, we will determine the required quantity and preferred location for additional marine borings that will be required to proceed with the conceptual and schematic design phases. The marine borings would likely be specified to a depth of 50 ft below the existing mudline. If bedrock is encountered at shallower depths, as is expected, rock cores would be advanced until five feet of competent rock are encountered. The marine borings would be obtained from a barge mounted drill rig and/or a truck rig in the Costco parking lot. The marine soil borings will be instrumental in providing an efficient and economical design for the proposed bulkhead which is directly related to the root cause of the initial failure. The marine soil borings are necessary, in addition to the upland borings, as the subsurface conditions in the water can vary greatly from the conditions observed upland.

During the process of obtaining marine soil borings, McLaren will perform the following services:

- Establish the subsurface design criteria to be provided to the Village
- Prepare a marine boring plan and obtain all necessary approvals relative to the work
- Provide field oversight on the drilling barge during the marine investigation and document the results of the subsurface exploration. The information obtained will be utilized in the design of all applicable phases on the Project work
- Assist the drilling Contractor in obtaining the necessary agency approvals to perform this work

Upon completion of the marine soil boring investigation program and any necessary laboratory testing, McLaren will prepare a Marine Geotechnical Report documenting the findings in a clear and concise fashion. McLaren will assist in submitting a complete Geotechnical Report including findings of both the marine and upland investigations to the Village.

Task 7.5 – Underwater Investigations

McLaren shall mobilize a three (3)-man dive team to perform underwater inspections for the purposes of preparing a condition survey report. It is anticipated that one (1) day of diving will be required to gain a full understanding of the subsurface conditions.

The three (3) man dive teams will each comprise a P.E. Diver/Team Leader, Engineer/Diver, and a Tender. All team members performing field inspections maintain the training and medical certifications required under Contract Diving Operations sections 30.A.06 to 30.A.10 of the U.S. Army Corps of Engineers (USACE) EM-385. The three-man field investigation teams comprise 100-percent commercial divers certified by the Association of Diving Contractors International (ADCI). Our dive teams are OSHA compliant meeting the guidelines of 29 CFR 1910 Subpart T – Commercial Diving Operations. The team members are trained in general OSHA regulations (10-hr), Oxygen First Aid and are all Emergency First Responders CPR/AED/First Aid. Safety shall always remain the highest priority for our field inspection teams. By fielding teams that comprise both a Team Leader and a Dive Supervisor, the dive plan and equipment are constantly being reviewed and examined. By this manner, McLaren is proud of having zero OSHA violations, of any gravity, within our 38-year history.

During a typical dive operation, the diver will perform an inspection using surface supplied air and continuous two-way communication. The diver receives filtered air from a low-pressure volume tank and that is continuously filled using a gasoline powered air compressor. The volume tank and compressor are located on the surface (boat or van) from which air is forced under low pressure through an umbilical to the diver. The umbilical consists of a tether (strength) line, a low-pressure air hose, a two way communications wire, and a pneumofathometer hose. The diver is equipped with a dry or wet suit, gloves, fins, a dive helmet, an independent emergency air supply, and any necessary hand tools. The diver will perform either a visual (swim-by) and/or a tactical (hands-on) inspection of the underwater elements, from which information is reported through continuous two-way communication. A note taker records the observed information and directs the sequence of inspection. The tender will maintain the ongoing dive operations by providing support to the diver. At the end of the field term, our crews, headed by the Team Leader, will assemble the report by first reducing the field notes, assimilating data, compiling photographs and gaining an understanding of the work, which has been assembled.

At the end of each day, and within 48 hours, our crews, headed by the Team Leader, will assemble a Field Inspection Report summarizing the findings and pertinent information obtained from the inspection.

Task 7.6 - Archeological and Historic Resource Survey

A series of research tasks are required to move the SEQRA analyses of cultural resources forward for the proposed 860-foot bulkhead stabilization efforts along the Port Chester Byram River waterfront. The New York State Office of Historic Preservation (SHPO) has very precise procedures for the implementation of cultural resource evaluations (New York Archaeological Council *Standards*, 1994; New York Archaeological Council *Handbook*, 2000; OPRHP *Format Guidelines*, 2005; CRIS, 2014). In compliance with the state review process, McLaren's consultant Historical Perspectives, Inc. (HPI) will evaluate the linear bulkhead and, specifically, the "Activity Node," for both historic resources and potential sensitivity for archaeological resources.

Initial surveys of cultural resources, often referred to as a Phase IA, include documentary research and pedestrian inspections, and encompass both historic resources and archaeological resources. The Phase I project impact analysis for archaeology is restricted to those land areas that will be directly impacted by the project action, the Area of Potential Effect (APE), while the analysis for historic resources must consider a wider study area for both visual and contextual impacts. HPI's assessment for both types of resources will rely on documentary research and field inspection tasks, as listed below.

- a. Identify historic properties and archaeological resources on or near the project bulkhead that are designated, inventoried, and/or are under consideration for designation by city/state/federal designation agencies.
- b. Collect site disturbance data to determine site integrity. HPI will utilize the full range of data that the McLaren team will have available (e.g., ACOE records). In cases where a site has been extensively disturbed, e.g., periodically rebuilt wooden piers and bulkheads, the disturbance will be documented by the archaeological research team and the disturbance data included in the environmental review report. No further archaeological tasks will be necessary for previously disturbed sections of the bulkhead.
- c. Conduct a site reconnaissance to establish baseline conditions of the property and surrounding views, as well as identify potential historic resources. Photographs of existing conditions will be taken. If indicated, conduct archival research.

Prepare a technical report for the bulkhead, with photographs and a photo key map, historic maps, and a location map, which will be incorporated into the environmental review report. The technical report will recommend "no impact" or "further study needed."

Task 7.7 - Wetland Assessment and Ecological Evaluation

McLaren will provide a Federal – USACE wetland assessment and ecological evaluation for the Project area. According to the New York State Department of Environmental Conservation Environmental Resource Mapper there are no known regulated Freshwater or Tidal wetlands in the vicinity of the property and no other watercourse other than the Byram River. Services will include:

- a. **Federal Wetland Assessment/ Delineation:** Complete a field assessment/delineation in accordance with the USACE Wetlands Delineation Manual (January 1987), Routine Determination Method and recent Northcentral/Northeast supplement as well as the NYSDEC 1974 Tidal Wetlands Aerial Photo delineation

- b. **Ecological Evaluation:** Review available data and other pertinent site information to determine the suitability of the project area for endangered and threatened species and conduct field reconnaissance (Phase 1 Habitat Suitability Assessment) to determine if rare, threatened, or endangered wildlife or plant species or unique habitat is present in the project area.

Obtain information from the New York State Department of Environmental Conservation – Natural Heritage Program regarding known occurrences of State listed threatened/endangered species on or in the vicinity of the property. Currently, the NYSDEC lists twenty four (24) animals, plants that are threatened or endangered within the Westchester and Greenwich County areas.

- c. **Report:** Prepare a report of findings based upon analysis of information synthesized from the above tasks. The report will include a discussion of the existing habitat types on the site and the biology of endangered and/or threatened species located or potentially located in the project area, potential impacts from the proposed project, and proposed mitigation if necessary.

Task 7.6 – Condition Survey Report

McLaren will prepare and submit a draft condition survey report summarizing the findings of our site investigations. The report will include written text, photos, sketches, diagrams, drawings, maps and the like to provide a clear and comprehensive understanding of site conditions, design issues as well as design constraints and associated recommended mitigations. The report will also include a description of the proposed project program and program requirements.

McLaren will issue a draft copy of the condition survey report to the Village for their review and review by any regulatory agencies involved with the project for review and comment. Upon receipt of review comments, McLaren will incorporate same as appropriate and issue a Final Condition Survey Report in a quantity directed by the Village.

Task 7.7 – Schematic Designs

Upon completion of the site investigation, McLaren will have a clear understanding of the existing conditions of the site. Utilizing the results of these tasks, McLaren will develop three (3) possible design solutions that, at a minimum, will consider the points listed below for the established design criteria. McLaren will develop and evaluate conceptual designs for the project. For each conceptual design alternative presented, McLaren will provide a detailed description of the proposed design concept, along with an objective assessment of that concept. The design criteria will be consistent with the planned use of the project site. The points of consideration are as follows:

- **Technical Suitability** – McLaren will evaluate the technical viability of each alternative for structural soundness, stability, and integration consistent with the LWRP – that is, a value engineering approach for the design criteria will be employed.
- **Construction Cost Estimate** – As directed by the Village, McLaren will evaluate construction costs in preliminary detail to permit comparative economic assessments of alternatives. McLaren will develop pre-construction cost estimates for the design concepts in assessing the feasibility of the concept for further development, and establishing a tentative budget. Contingencies will be established to allow for the level of information available at this stage.
- **Regulatory/Permitting Issues** – Agencies such as the USACE, the NYSDEC, Coastal Design Management, among others, will be consulted as required. Pertinent ADA Standards, applicable codes, and environmental regulations will be identified as well as the requirements for any necessary permits and approvals.
- **Ease of Construction** – Constructability, health and safety during construction and impacts on construction schedules will be evaluated for each alternative as impacted by the practical performance of the work.
- **Future Maintenance Requirements** – Alternatives will be selected to provide low maintenance solutions so as to minimize the need for future maintenance repairs.

Design Alternatives Report... During a meeting with the Village and the project advisory committee, McLaren will present our schematic design alternatives. The drawings will be presented to provide a clear definition of the improvements and development of the proposed design concepts. At a minimum, this drawing set will include a cover sheet, general notes, plans, sections, and details indicating the specified improvements. Technical specifications will also be provided with this submission.

TASK 8 - PUBLIC MEETING

After a Negative Declaration or Notice of Completion of Draft Environmental Impact Statement has been completed by the Village, McLaren will prepare a Power Point Presentation and graphics for a public information meeting to present the proposed schematic alternatives. We understand that this public information meeting will be held concurrently with any required public hearing on a Draft Environmental Impact Statement (if prepared). We will work with the Village to provide documents and a project description that can be posted on the Village web site in advance of the meeting to allow the public time to understand the project and formulate questions. It is important to also allow a period after the meeting for the public to provide written comments. McLaren will prepare a written summary which will be provided to the Village for review and comment.

TASK 9 - CONSTRUCTION REQUIREMENT ANALYSIS

McLaren will prepare an analysis of all federal, state, and local requirements for the selected schematic design alternative, including necessary permits and approvals, and a description of how these requirements will be satisfied by the design. This analysis will be submitted to the Village for review and upon approval by the Village submitted to appropriate project partners and the Department of State for review. A pre-permitting meeting with the Department of State and the identified federal, state and local entities may be required to discuss any revisions needed to satisfy regulatory requirements. Minutes of the pre-permitting meeting will be provided.

TASK 10 – ENVIRONMENTAL QUALITY REVIEW

McLaren will conduct the environmental review in accordance with the State Environmental Quality Review Act (SEQRA) and its implementing regulations 6 NYCRR Part 617. Because of minimal impact on the site, and rehabilitation of the existing structures, Type II actions are applicable to this project. Type II actions have been found categorically to not have significant adverse impacts on the environment, or actions that have been statutorily exempted from SEQR review. Type II actions do not require a negative or positive declaration, or an environmental impact statement (EIS), hence it is excluded. However, in order to determine a final Type II action decision, we will prepare EAF (environment assessment form) and submit it to the NYSDEC.

McLaren is highly experienced and proactive in coordinating with the regulatory agencies. The applicable permits required for this project include the SPDES General Permit for NYSDEC Stormwater Discharges from Construction Activity, Water Quality Protection; USACE nationwide permit and US Coast Guard permit.

TASK 11 – DRAFT FINAL DESIGN

Task 11.1 – Design Development (60%)

Upon approval of the selected schematic design alternative, McLaren shall develop the Construction Design Documents, which will include drawings, technical specifications, cost estimates and calculations. The designs to be developed and produced in this phase would be based upon the improvements shown on the technical documents provided by the Village.

McLaren will be responsible for producing a full construction design package including new drawings, revisions to existing drawings and technical/contractual specifications as follows:

- Develop physical drawings separated by each discipline
- Update existing Village drawings to reflect the new layout and modifications
- Produce a bill of materials shown on drawings and included in package
- Develop construction specifications in conformance with Village's standard format

At this stage, the plans will constitute a 60 percent completion. The plans will contain sufficient details to provide a general definition of the proposed design concepts and construction staging. A draft technical specification will be provided with this submission. At a minimum, this drawing set will include a cover sheet, general notes, plans, sections, and details indicating the specified improvements. McLaren's opinion of probable construction cost will be developed using a contingency of 20 percent. The 60 percent design development set of documents will be submitted to the Village for review and comment. McLaren will continue with developing the documents during the review to maintain project schedules.

TASK 12 – FINAL DESIGN AND CONSTRUCTION DOCUMENTS

Design Development (100%)

McLaren will incorporate any comments received and continue to develop the drawings to 100 percent completion. Along with the set of 100 percent complete drawings, McLaren will submit a set of standard technical specifications and an opinion of probable construction cost using a 15 percent contingency. A written response to all comments will be provided.

Final design and construction documents will be provided to the Village and the project advisory committee for review. Once final comments and approval are received, McLaren will incorporate the comments into the Design Documents and submit the final drawings and technical specifications. A final design calculation package will also be included with this submission. Documents will be certified by a licensed professional engineer and affixed with a corporate seal. McLaren will prepare a complete package of bid-ready contract documents. The package will include:

- Instructions to bidders
- Bid documents
- Contract language, including applicable federal and state provisions
- Special notes
- Specifications
- Plans
- A list of supplemental information available to bidders (i.e., subsurface exploration logs, record as-built plans, etc.)
- Other pertinent information

TASK 13 – PERMITTING

Concurrent with the Design Phase, McLaren shall commence with the pre-permitting tasks of the project. McLaren will develop the pre-permit documents from the recommendations using the results of the Design Phase described above. These documents will include:

- A Project Narrative
- Preliminary Policy Consistency Documents (Coastal Zone Management)
- Permit Applications
- Site Drawings

McLaren will prepare the necessary permit or other approval applications for required permits or approvals. A pre-application meeting with the Department of State and the appropriate federal, state and local regulatory authorities will be held as necessary to discuss the necessary permit or other approval applications. Prior to filing, McLaren will submit all application of the Department of State for review and comment. Potential permitting and approval agencies include but are not limited to:

- US Army Corps of Engineers
- NY State Department of State for consistency with the federal Coastal Zone Management Act
- NY Department of Environmental Conservation
- NY Office of General Services pursuant to the Public Lands Law (including LWRP conformance)
- NY Office of Parks Office of Parks, Recreation and Historic Preservation or the SHPO

Also, prior to construction McLaren will demonstrate that the project is in compliance with 6 NYCRR 502 "Floodplain Management Criteria for State Projects" by submitting a signed certification, by an official authorized to enforce local floodplain management regulations that the project complies with the requirements of the statute.

CONSTRUCTION PHASE SERVICES (VALUE ADDED)

Construction Phase services will be included at the direction of the Village. As directed in the RFP, these services have been separated in our Cost Proposal and will typically include the services outlined below.

CONSTRUCTION ADMINISTRATION (CA)

McLaren can provide "Value Added" construction phase services to ensure the project is built to plans and specifications, built efficiently to meet time constraints, provided with timely review of shop drawings, and provided with cost effective change orders. We believe integration of the CA with the Design is integral to a

quality job, and our clients find that it is the most cost effective arrangement. Following the award of the construction contract, McLaren typically provides construction support services that include as a minimum the following services:

- ✓ Attendance at construction kick-off meeting
- ✓ Review and approval of construction schedule
- ✓ Identify conditions that could impact the timely completion of construction
- ✓ Periodic Inspection of Construction Activities to Ensure Compliance with Plans and Specifications, including submittal of advisory reports
- ✓ Preparation of Preliminary and Final Punch Lists
- ✓ Technical Assistance during Construction
- ✓ Written Clarification and Interpretation of Bid Documents
- ✓ Review of Contractor Submittals (shop drawings and product data)
- ✓ Check and approve shop drawings, material samples and catalog cuts
- ✓ Review and Recommend Approval of Change Orders or Substitution Requests
- ✓ Management of Files and Records
- ✓ Provide final inspection and sign-off on construction permits.
- ✓ Close-Out

CONSTRUCTION INSPECTION (CI)

Similarly, McLaren believes that an on site representative from the design team will provide the highest quality job. McLaren typically provides a full time, on site, Resident Engineer (RE) during the construction of the bulkhead. Services include:

1. RE shall review act as point of contact for Contractor and Liaison between Contractor and the Village.
2. RE shall coordinate and monitor construction progress and schedule, including, but not limited to preparing daily logs of contractor time on site, weather, contractor manpower, deliveries, disposals, special occurrences, job progress, and work completed.
3. RE shall prepare a weekly summary of the daily reports for submittal to the Village.
4. RE shall work with Contractor to determine extent of repair area for above water repairs.
5. RE shall assist in final inspection, approval of work and certification of Contractor’s requests for payment.

SCHEDULE

McLaren understands that for a project to be considered successful, it must not only meet the project technical goals but also be performed within the time constraints determined by our clients. McLaren understands that we must be available on a timeline dictated by the Village. Therefore, it is our pledge to provide all requested labor, material, and equipment necessary to the Village on a timely basis and within the target dates outlined in the RFP and below.

ACTIVITY	MILESTONE DATE
Notice to Proceed	April 6, 2015
Kick Off Meeting	April 7, 2015
Mobilization	April 20, 2015
Site Reconnaissance and Schematic Designs	April 20 through May 20, 2015
Site Investigations	April 20 through May 20, 2015
Schematic Design (30%)	May 29, 2015
Public Meeting	June 30, 2015
Construction Requirement Analysis	July 1 through July 15, 2015
Environmental Quality Review	July 1 through July 31, 2015
Draft Final Design (60%)	August 30, 2015
Final Design and Construction Documents (100%)	October 30, 2015
Permitting	August 2015 to March 2016
Commence Construction	May 2, 2016

A cost for each Task outlined above is provided in our Cost Proposal, in a separate sealed envelope.

McLaren
ENGINEERING GROUP
APPLIED INGENUITY

M. G. McLAREN, P.C.
100 Snake Hill Road, West Nyack, NY 10994
Tel: (949) 353-6400 Fax: (949) 353-6509 www.mclaren.com

PROJECT

**PORT CHESTER
BULKHEAD REPAIR
PORT CHESTER, NEW YORK**

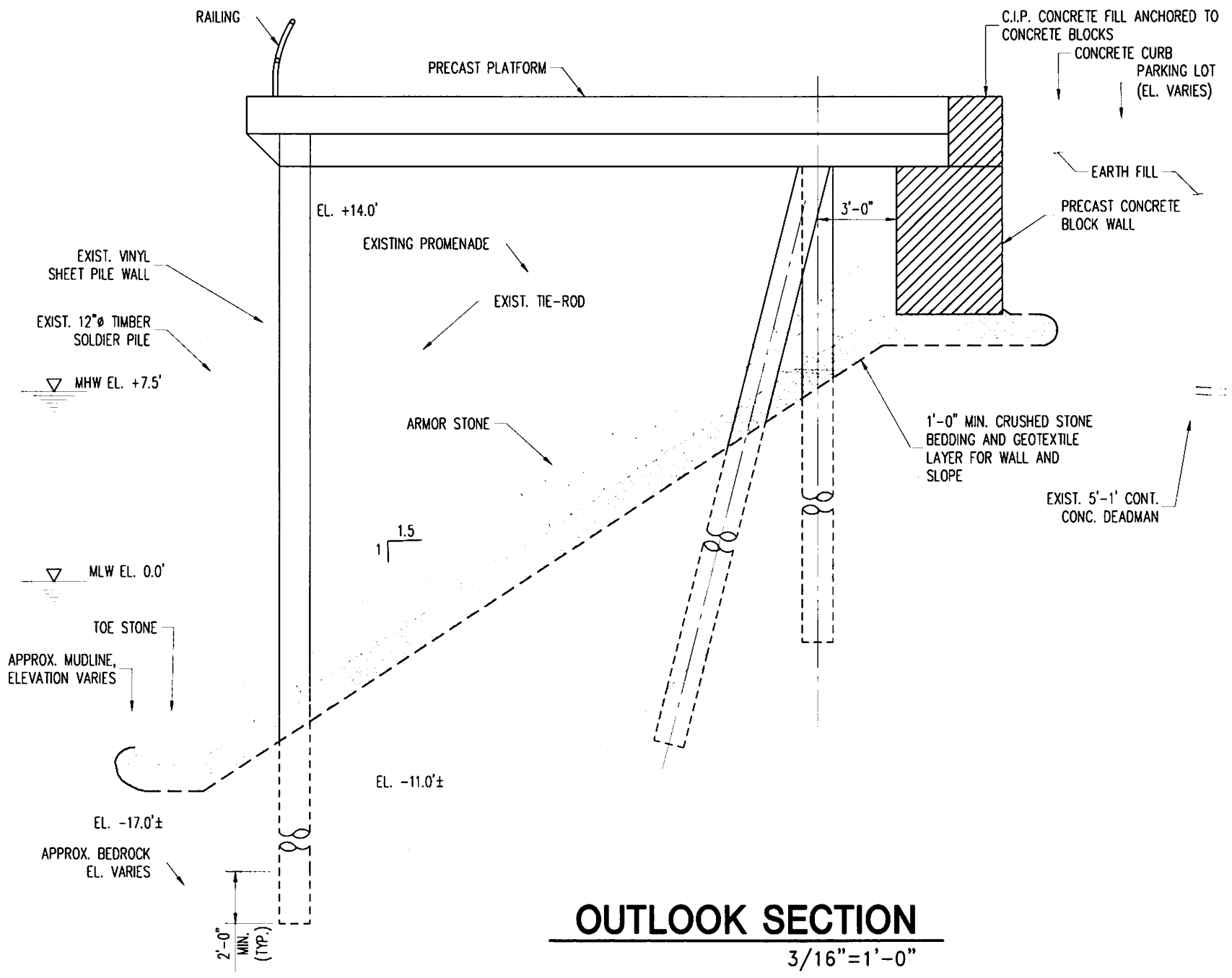
SHEET TITLE

OUTLOOK SECTION

PROJ. NO.	150163	DRAWING NO.	SK
SCALE	AS NOTED		
DATE	3/13/15		
DRAWN BY	EHC		
CHECKED BY	SET		

1 OF 2 SHTS

031315-1



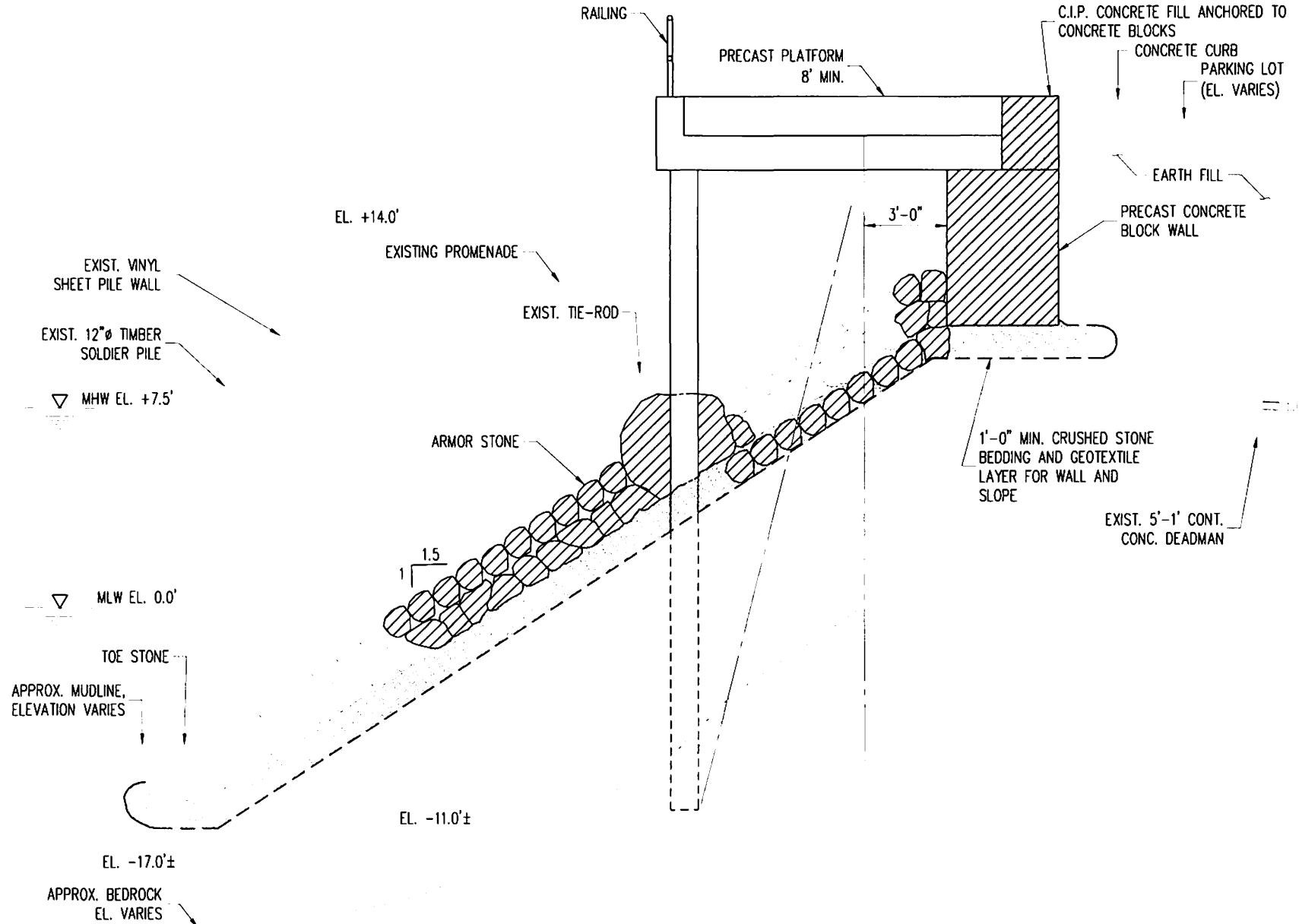
OUTLOOK SECTION
3/16" = 1'-0"

MCLaren
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SHEET TITLE
PROMENADE
 PROJECT
PORT CHESTER BULKHEAD REPAIR
PORT CHESTER, NEW YORK

PROJ. NO.	150163
SCALE	AS NOTED
DATE	3/13/15
DRAWN BY	EHC
CHECKED BY	SET

DRAWING NO.
SK
031315-2
 2 OF 2 SHTS



PROMENADE

3/16" = 1'-0"

Founded in 1977, **McLaren Engineering Group (McLaren)** has a 38-year history of providing multidiscipline consulting engineering services to clients worldwide. Headquartered in West Nyack, NY, with offices in New York, NY; Orlando, FL; Baltimore, MD; and San Francisco, CA, McLaren provides full-service professional engineering through eight (8) technical divisions that include: Marine; Waterborne Transportation; Site/Civil; Survey; Structural; Bridge/Highway/Rail; Forensics; and Entertainment. McLaren's marine division provides marine inspection and design of all types of waterfront structures and facilities, underwater inspection services, pier and port planning and design, coastal engineering services, hydrographic surveys and geotechnical investigations.

Our 150 person staff includes skilled civil, geotechnical, structural, marine, and mechanical engineers, P.E. licensed underwater inspectors, construction management specialists, specification writers and CAD designers experienced in the latest computer-aided design equipment and software. McLaren's success in providing timely, innovative, and cost effective solutions has led to steady growth in the size of our divisions.

MARINE ENGINEERING AND WATERFRONT DEVELOPMENT

McLaren distinguishes itself as one of the nation's leading experts in the underwater inspection, assessment, design and construction inspection of waterfront structures. As a recognized leader in the waterfront facilities development industry, McLaren has provided design, engineering, and inspection services for many of these type projects nationwide. Waterfront/shoreline development projects are particularly geared for McLaren as we can cover many of the work elements and aspects of a project with our multidiscipline services. Our depth of experience and expertise encompass all aspects of marine design and construction, including:

- Application of Advanced Materials
- Breakwaters/Riprap
- Bulkheads, Relieving Platforms, Quay Walls – rehabilitation / new construction
- Cathodic Protection – investigation / design
- Crane/Crane Rails and Off-Loading Machinery and Equipment
- Dredging
- Dry Docks
- Effects of Water Chemistry on Materials
- Fendering and Berthing Energy Absorption
- Floating Structures (terminals & piers)
- Gangways/ADA Compliance
- Geotechnical Studies and Design
- Launches (Kayak and Crew)
- Marina Designs/Studies/Permitting
- Marine Borer Studies and Remediation, Infestation and Appropriate Mitigation
- Marine Terminal Operations Analysis
- Multi-modal Facilities
- Navigation Aids
- Permitting
- Pier Design – rehabilitation / new construction
- Port and Marine Terminal Planning and Development
- Recreational Marinas for Pleasure Craft
- Relieving Platforms
- RO-RO Facilities
- Seismic Design
- Terminals – berthing, loading and conveying systems
- Tidal Influences
- Timber structure design and repairs
- Underwater Engineering Inspections
- Wharves

McLaren's professional staff includes specialists in coastal engineering, who are expert in wave analysis, wave attenuation, sediment transport, environmental loading, and structural coastal interaction. McLaren provides waterfront facility master planning, development/design, and design-build RFP document preparation services. Port terminals and marine layout planning, dry bulk handing/conveying, container terminal feasibility studies/design, TEU loading/unloading analyses, RO-RO and LO-LO planning/design, liquid bulk transshipment planning and design, cruise ship terminal design, all are within the realm of expertise offered by McLaren's Marine Division.

Through our extensive experience in this rather specialized field, we can offer expertise in: cost estimating, life cycle analysis, and construction supervision. Our underwater inspection capabilities provide assurance that construction is carried out in conformance with plans.

SUBAQUEOUS MARINE INSPECTION SERVICES

McLaren has extensive experience in underwater inspection and structural assessment, varying in type from quay walls and piers to bridge foundations and dams. Much of our underwater work has been performed along the Eastern seaboard, which provides probably the greatest variation of diving media in the nation. As only one example, McLaren has successfully performed the underwater investigation, design, and construction inspection of waterfront structures; comprising of approximately 75 percent of the perimeter of Manhattan, within the last decade.

The many varied underwater inspections performed by our dive crews have provided us with a tremendous database for the effects of water chemistry and flow on the life of various marine construction types and materials. Through these projects McLaren has become proficient in many specialized engineering concepts, such as: Marine Borer and Zebra Mussel Identification; Effects of Current Velocity on Scour; Cathodic Protection – both Galvanic and Impressed; Measurement of Water Resistivity and Stray Current; Low Visibility Diving (Tactile Investigations); Cold Weather Diving; Underwater Videography and Photography; Ultrasonic Testing; Various Cleaning Methods – Pneumatic Brush, Hand Scraper, Water Blaster; Statistical Relevance of Representative Sampling; Structural Analysis/Design of Structural Repairs/Construction Inspection; Comprehensive Report Preparations and Surveys.

WATERBORNE TRANSPORTATION DESIGN SERVICES

McLaren's involvement with the ferry transport industry began in the early 1980s when we were asked to provide engineering support and consultation for the temporary floating ferry terminal at Battery Park City in lower Manhattan. That work has led to the design of more than 50 ferry landings in the Northeast, and we are now working on the second generation of terminals, which comprise some very significant structures. Our history of experience includes work for port authorities, economic development entities, state departments of transportation, and private ferry operators. McLaren's Waterborne Transportation expertise lies within Ferry Terminals in oceans and rivers, marinas, and navy architecture. McLaren works with all of these key issues, and finds solutions working with:

- Range of Motion
- Berthing Analysis
- Environmental Modeling
- Gangways
- Hydrodynamic Modeling
- Mooring Analysis

ENVIRONMENTAL PERMITTING

McLaren has successfully prepared the environmental permit applications and guided clients through the maze of waterfront-related permits and approvals for large municipal projects. McLaren's suggestions for innovative project alternatives have greatly reduced the potential for impacts to aquatic biota and the estuarine habitats, thereby allowing the project to be successfully permitted within a relatively short time frame. Furthermore, by eliminating certain impact issues, the need for extensive fieldwork is greatly reduced. McLaren is intimately familiar with the process and issues that must be addressed in permitting waterfront projects. Because agency review of permit applications can be a lengthy process, McLaren strives to:

- Design projects to minimize potential problems during the review period to the extent practicable
- Get review agency approval of overall project approach and concept as early as possible
- Develop project construction schedules (including those for producing construction drawings) that recognize the uncertainties regarding the timing of permit issuance

Geotechnics. Developable land has become less abundant over the past decade as restrictions have increased. Marginal sites have now become viable ones; however, they are often associated with difficult ground. The geotechnical challenges offered by these sites require creative engineering skills and technical expertise. Whether the solution is piling, dynamic compaction, or other means of ground modification, McLaren can assess and recommend the appropriate method. We have stabilized old buildings, underpinned and lifted others, and have designed foundations for hundreds of structures. We have in-depth expertise in providing economical foundation design for clients. McLaren explores all feasible alternatives in geotechnical design, such as reusing existing piles to provide cost effective solutions. We examine the most economical solutions to determine if they will meet the long terms needs of the project. Geotechnical services offered by McLaren include: Subsurface

Investigations; Soil Strength Parameter; Underpinning Design; Foundation Design; Retaining Walls; Seismic Analysis; and Ground Improvement.

SURVEY CAPABILITIES

Our multiple, fully equipped survey crews have experience with commercial and residential applications, municipal facilities, and highway and rail facilities. They often work in conjunction with our Site/Civil Division in site development projects, while their hydrographic surveying balances our Marine Division's underwater inspection services. McLaren's extensive experience portfolio includes surveying and mapping. Our Surveying and Mapping Services Include but are not limited to the following:

- ALTA/ASCM Title Surveys
- As-Built Surveys
- Boundary Surveys
- Construction Stake-Out
- Control Surveys
- Easement Preparation
- Est. of Monument and Benchmarks
- Expert Witness
- Facility Surveys
- FEMA Elevation Certificates
- GPS Control
- Hydrographic Surveys
- Land Ownership Dispute Resolution
- Preliminary/Final Plats
- Route Surveys
- ROW Mapping
- Site Plans
- Structure Movement Monitoring
- Subdivisions/Zoning
- Topographic Surveys
- Utility Surveys

Hydrographic Surveys. Routine hydrographic surveys are conducted using the Portable Seafloor Hydrolite System which includes Sonarmite BT Echo Sounder (for water depth) linked to a Trimble R-8 RTK GPS data logger (for location on the planet) using industry-standard Hypack Max Software supported by an ODOM Digibar Pro Velocity Calibrator (to tell us the speed of sound in water) and a Valeport Model 740 Tide Gauge (to monitor the varying water elevation). The data is then related to the appropriate datum to assure that the underwater information seamlessly integrates with the above water land data. Survey planning, execution and post-processing are accomplished using Hypack Max Software.

OUR SUBCONSULTANTS



ELIZABETH KENNEDY LANDSCAPE ARCHITECT, PLLC
Brooklyn Navy Yard, 63 Flushing Ave # 264
Brooklyn, NY 11205

The best site design solutions embody a sense of time and place. Open space management consulting firm **Elizabeth Kennedy Landscape Architect, PLLC (EKLA)** works with clients on the basis of this ethos. For 20 years EKLA PLLC has provided landscape planning, design and site management assistance to public and private organizations from offices in the historic Brooklyn Navy Yard. The firm specializes in landscapes for cultural preservation and green infrastructure.

Elizabeth Kennedy, ASLA, leads EKLA PLLC. A Design Trust for Public Space research fellow, Van Alen Institute competition juror, and working principal, she is a recognized expert in the interpretation and preservation of cultural sites through landscape design. Registered to practice landscape architecture in New York State, she is a graduate of Cornell University in environmental analysis and also attended Cornell's MA program in landscape architecture. She holds basic certificates in wetland planning and construction from Rutgers Experimental Agriculture Station.



HISTORICAL PERSPECTIVES, INC.
P.O. Box 529
Westport, CT 06881

Historical Perspectives, Inc. (HPI) is a cultural resources consulting firm that offers a wide variety of services from SEQR compliance for cultural resources, Section 106 coordination, archival research and archaeological reconnaissance surveys to visual impact analysis and historic structures recordation. Specialists in producing assessments for environmental review procedures, HPI has been in business for over thirty years. Having developed and maintained a reputation for integrity and thoroughness, the firm has successfully guided projects

through various state and city agencies, including the New York State Department of Environmental Conservation, the NYC Landmarks Preservation Commission, the Connecticut State Historic Preservation Office, and the New York State Historic Sites Bureau.

HPI has undertaken a wide range of waterfront and transportation projects in the Tri-State area, including preparation of National Register of Historic Places Nominations and documenting historic bridges. Some of HPI's notable bridge projects have included the Willis Avenue Bridge, the 19th century High Bridge spanning the Harlem River, the Borden Avenue [retractile] Bridge over Dutch Kills in Queens; and, the Bayonne Bridge linking Staten Island with New Jersey. Waterfront studies have included the introduction of the Town of Stratford Bikeway on Long Island Sound, the Management Plan for the Lyon Cemetery on Byram Shore Road in Greenwich, the Town of Rye properties on Milton Road: Rye Meeting House and the Junius Bird Homestead, and the Mamaroneck Beach and Yacht Club.



Jersey Boring and Drilling

36 Pier Lane West
Fairfield NJ 07004

Jersey Boring and Drilling (JBD) is a fifth generation, family owned business that provides geotechnical, environmental drilling and sampling services includes Test borings, Well installations, Geotechnical instrumentation installations, Concrete and asphalt coring, and Maintenance and protection of traffic. JBD is a small, women owned business. They are certified as a WBE/SBE by government agencies in New Jersey, New York and Pennsylvania.

The majority of our qualified staff of forty employees have in excess of fifteen years of experience in their field and many have been employed by JBD for more than twenty years. They team to provide geotechnical and environmental drilling, concrete core drilling, as well as, material testing and inspection services to the construction industry. They have rigs capable of performing varied drilling needs. Their testing lab, Jersey Essay Labs, is certified by AASHTO, ASTM and CCRL.

Their drilling areas of expertise includes land or water; highways, bridges, tunnels and dams; elevator shafts, basements and low clearance; and confined spaces. Their fleet of diversified drill rigs consists of truck mounted; skid, gas, diesel and electric; rubber tire all terrain; rubber and steel track; portable electric; limited access, low clearance; and direct push sampling equipment.



SETTY & ASSOCIATES, LTD. PC

121 West 27th Street, Ste. 1100
New York, NY 10001

Setty & Associates, Ltd. PC (Setty) is a full service engineering firm, now in its 30th year. Our professionals include electrical, mechanical, plumbing, fire protection, commissioning and controls engineers. Offered services include condition assessments, design programming, design, design-build, RFP development, construction management, and commissioning services. Setty has delivered hundreds of professional service projects throughout the world.

Setty has experience with many types of facilities and systems. The variety of space and system types, associated with The Village of Port Chester, is well supported by our experience. In particular, we have extensive experience in electrical and lighting design, as well as electrical upgrades and replacements for municipalities, parks & recreation areas, and waterfront projects, for rehabilitations and renovations, as well as new construction.

Additionally, Setty is a Minority-owned Business Enterprise (MBE), certified by the following agencies: New York State Empire State Development; New York City Small Business Services; Port Authority of New York and New Jersey; Nassau County, Long Island, NY; New York City School Construction Authority (Pre-qualified).

Section 3 Project Experience

As a recognized leader in the waterfront facilities development industry, McLaren has provided design, engineering, and inspection services for all types of marine structures; including piers, wharves, marinas, bulkheads, quay walls, terminals, rip rap, dry docks, and bridges. In New York Harbor alone, our inspection P.E. divers have inspected over 2 million piles over the last decade. McLaren has an excellent history of inspection, engineering and design experience working for both public and private entities. McLaren is currently providing or has recently provided within the last three (3) years marine and structural engineering services for clients such as the Port Authority of New York and New Jersey, County of Westchester, Rockland County, NYCDPR, NYCDOT, NYCEDC, NYCDDC, NY Waterway, NYSDOT, New Jersey Transit Corporation, City of Long Branch, U.S. Gypsum, Turner Construction, Consolidated Edison Company, and the U.S. Navy, to name only a few.

As expert designers of all types of waterfront structures and sites, our team is well attuned to the critical nature of design versus cost. The integration of innovative designs, new materials and functionality must be carefully crafted within the proper context. We have enjoyed success in monitoring costs by developing regular cost estimates, and checking these against budget as the project evolves. As a result, we have been able to provide accurate estimates for the repair and rehabilitation of many types of waterfront structures. Furthermore, as an inspection and design engineering firm, we can identify these issues in the early stages of a project and mitigate the need for costly change orders for additional work that may drive the price of a particular project.

Both McLaren and our Team of Subconsultants have many years of proven success with projects of this type. Due to page limitations, we have included a brief summary of McLaren's similar experience below. At the request of the Village, we can provide additional projects for the McLaren Team.

Inspection and Design at The Village of Dobbs Ferry Waterfront Park – Dobbs Ferry, NY; McLaren provided the necessary professional engineering services associated with the reconstruction of the Village's Hudson River Waterfront Park. The Village was not only interested in stabilizing its shoreline, but developing the waterfront areas for recreational and/or practical use. Located on the eastern edge of the Hudson River, the overall length of the waterfront edge is approximately 2,500 linear feet. The project was partially funded by the New York State Department of State (NYS DOS) Division of Coastal Resources (DCR). Work plans, schedules, and project tasks were performed/provided in conformance with DCR requirements. Services included marine engineering and surveying services, to evaluate and design the most cost-effective means, to develop and rehabilitate the shoreline. The engineering services provided by McLaren included: Inspection and assessment of the existing stone rip-rap revetment condition along the shoreline; Hydrographic survey; Design of shoreline stabilization improvements including new rip-rap revetment, and tied back sheet pile bulkhead; Design of an approximately 75 ft long timber fishing pier and floating docks capable of supporting up to 8 transient boaters; Preparation of a cost analysis; Development of construction documents; Permitting assistance; Construction administrative services; bid phase support; construction consulting services; public hearing attendance; and NYSDOS project reporting. A key element to the success of this project was resolving coastal design issues associated with significant environmental forces as well as federal and state coastal permitting processes. McLaren worked to resolve the physical and visual impacts on the surrounding environment. **Type of Services:** Marine Engineering and Design; Hydrographic Survey; Permitting. **Construction Value:** \$2,000,000 **Firm Value:** \$360,000 **Client/Project Owner:** Village of Dobbs Ferry **Contact:** Mr. Marcus Serrano - 112 Main Street, Dobbs Ferry, NY 10522 – (914) 231-8502

Waterfront Revitalization – 4th & 5th Street Piers at Kent Avenue – Brooklyn, NY; McLaren provided underwater investigation, marine and geotechnical engineering design, permitting, cost estimating construction inspection and construction administration services for the redevelopment project along Williamsburg waterfront in Brooklyn, NY. During the investigation stage, McLaren inspected all waterfront structures which included existing pile fields and bulkheads and performed a hydrographic survey of the project area. McLaren also provided permitting services, conceptual design and supervision of the taking of boring samples. The demolition phase consisted of demolition, removal, and disposal of remnants of the existing piers and bulkheads, and the construction phase, consisted of constructing new steel pile bulkheads, platforms, and pier structures, as well as the installation of railings, electric supply, and lighting of the deck of the platforms and piers. McLaren provided detail design, construction inspection and construction administration services during these phases. **Type of Services:** Underwater Investigation; Marine Engineering Design; Geotechnical Engineering; Permitting;

Cost Estimating; Bid Document Preparation; Construction Inspection Construction Admin. **Construction Value:** N/A **Firm Value:** \$1,355,725 **Client/Project Owner:** RD Management Corp. **Contact:** Mr. Al Rossi – 810 Seventh Ave, 28th Floor, New York, New York 10019 - (212) 265-6600, Ext. 305

Staten Island Homeport Bulkhead/Seawall Rehabilitation – Staten Island, NY; Under a marine services contract to the Turner Construction Company, McLaren provided design and construction support services for long-term rehabilitation of a collapsed portion of steel sheet pile bulkhead located at Staten Island Homeport. Approximately 200 feet of tied back steel sheet pile bulkhead failed immediately north of a berthing pier. McLaren provided a detailed topside and underwater inspection to determine the cause of failure. Information for the design of permanent repairs was also established. McLaren provided engineering analysis and design for a replacement tied back bulkhead. The permanent system is capable of supporting a live load of 150 psf. The design included two important differences from the original design: (a) the steel sheet piles size was modified to an equivalent of a Bethlehem PZ40 sheet pile, and (b) the wale for the tie back system was located on the offshore face of the bulkhead, rather than on the inshore face in order to obviate the connection failures inherent in the original design. A full set of construction drawings and technical specifications were prepared, as well as construction cost estimates and assistance with bidding. In addition, McLaren designed a sacrificial anode cathodic protection system for the bulkhead and provided construction support services. **Type of Services:** Marine Engineering; Above Water Inspection; Underwater Inspection; Design Services; Construction Support **Construction Value:** N/A **Firm Share:** \$100,000 (Phase 1) **Client/Project Owner:** Turner Construction Company/NYCEDC **Contact:** Turner - Brooklyn Army Term., Box 40, 140 58th Street - Brooklyn, NY 11220 - (718) 630-2442

Ferry Shore Facilities – Waterfront Facility Inspection and Design (2005-2012); McLaren was hired to provide on an as-needed basis architectural, engineering, and construction related services for various NYCDOT ferry facilities citywide. Ferry facilities' components/structures included but were not limited to the following: piers, pontoons, gangways; moveable bridges; ship fendering and mooring systems; passenger terminal buildings; soil retaining structures; associated MEP systems; dredged channels; fuel/oil storage; maintenance/industrial buildings; elevated traffic structures; rail/rapid transit stations; bus terminals; and parking facilities.

For Pier 1 and Pier 2 Condition Assessment – Staten Island Ferry, McLaren provided the necessary design and construction support services for the repair of two high level timber pile supported concrete deck piers (Piers 1 and 2) and wharves (Wharf 2 through 3). These repairs included not only the pier and wharf structures, but also the timber fender system surrounding each pier and wharf. McLaren performed a Level I underwater inspection of both piers, and the adjacent wharf and bulkhead structures, with a Level II and III inspection of a considered sample of waterfront structures. **Type of Services:** Site/Civil Engineering; Marine Engineering; Geotechnical Engineering; Structural Assessment; Design Services; Permitting; Construction Support Services **Construction Value:** \$100,000,000 (est.) **Firm Value:** \$4,200,000 **Client/Project Owner:** NYCDOT **Contact:** Mr. Earl J. Baim, PE - (212) 487-8369

SUNY Maritime Rehabilitation of Campus Pier & Other Waterfront Structures - Throgs Neck, NY; As a Subconsultant, McLaren performed an inspection of marine structures and provided rehabilitation and repair design services for the SUNY Maritime Campus' entire waterfront. McLaren performed an in-depth inspection of the steel sheet pile bulkhead at the college's Student Activity Building to fully assess the extent of deterioration. McLaren designed the replacement of the C channel whaler providing lateral support to the steel sheet piling, and designed the replacement timber bracing between the piles supporting the boat crane. McLaren designed the replacement of the timber bracing between the piles supporting the campus boat shed and re-point approximately 3,400 feet of the college's seawall as well. In addition to work on the bulkhead, the project involved an in-depth inspection of the campus' Main Pier and comparison to a previous cursory investigation to assess the full extent of damage and deterioration. McLaren performed a structural and load rating analysis of the pier. In addition, we provided the rehabilitation design of the 5,000 square foot deck surface and pier in a way to help prevent future occurrences of significant damage and deterioration as was found during the inspection process. **Type of Services:** Site/Civil Engineering; Marine Engineering; Geotechnical Engineering; Structural Assessment; Design Services; Permitting; Construction Support Services **Construction Value:** \$7,302,000 **Firm Value:** \$1,061,854 **Client/Project Owner:** State University Construction Fund/SUNY Maritime College **Contact:** Mr. Richard Brown – 353 Broadway, Albany, NY 12246 – (518) 320-3204

Brooklyn Navy Yard Areawide Waterfront Services (1999-2012); - As part of Brooklyn Navy Yard Development Corporation's 10-year Master Plan to revitalize the Navy Yard as an economic development facility, McLaren Engineering Group (McLaren) was selected to provide specific area waterfront rehabilitation services at this 213-acre site. Improvements have been made to various marine structures at the facility, including Piers C, D, G and K; Berths 3A, 6, 7, 7A, 14A, 17, 18, 20A and 20B.

McLaren first performed above water and underwater inspection and assessment of piers, low-level relieving platforms, bulkheads/seawalls, and wharves. Preliminary and final design services, with construction cost estimates, were then provided for the rehabilitation. Each of the repair packages was fully designed and constructed, and McLaren provided full engineering services throughout those phases. Specifically, the following were performed for each of the waterfront structures listed above: Data Accumulation and Research; In-Depth and Detailed Underwater and Above Water Condition Surveys and Assessments; Preparation of a Condition Survey Report; Preparation of an Alternatives Study and Feasibility Report with Costs; Preparation of Environmental Permits and Coordination Meetings with NYSDEC and USACE; Preparation of Bid Documents (Contract Drawings, Technical Specifications and Boilerplate/General Specifications) – Submittals to 30%, 70%, 100% and Final Stages; Bidding Assistance and Evaluation/Contractor Selection; Construction Inspection using Underwater Inspection Crews; and Construction Administration Support Services (Shop Drawings/Submittals, Clarifications, Meetings, As-Built Documentation, Scheduling). Prior to repairs, the structures were in a dilapidated state. Because the facilities are old timber structures, McLaren was exposed to nearly every type of timber construction – and nearly every type of condition for which a solution was needed. **Type of Services:** Marine Engineering; Above Water Inspections; Underwater Inspections; Design Services; Construction Cost Estimating; Bid Document Preparation; Permitting; Construction Administration; Construction Inspection. **Construction Value:** \$24,000,000 (Cumulative) **Firm Value:** \$1,400,000 **Client/Project Owner:** Brooklyn Navy Yard Development Corp. **Contact:** - Mr. James Corley, Jr. - (718) 852-1441

Restoration of Long Slip Bulkhead – Hoboken, NJ; McLaren provided Marine, Structural, and Geotechnical Engineering services for the restoration of the Long Slip Bulkhead along the Hoboken Train Terminal Complex. The bulkhead had experienced rapid deterioration, including cracking in sections of the wall, development of sinkholes, obvious shifting of the retaining wall, and in some cases complete failure of the retaining wall. According to the client (NJ Transit Corporation), the settlements were the effect of the nearby construction activities, the decay of the timber cribs supporting the bulkhead, and the settlement of the soil at the site. McLaren performed a full site investigation and survey, an environmental assessment, and a geotechnical investigation. To complete this, McLaren coordinated with the client along with other agencies in order to work at the busy train terminal. Once the site investigation was complete, McLaren developed four different concept plans for consideration. Upon the clients' final review of each alternative, McLaren designed construction documents for which we provided construction administration services, bidding assistance and construction inspections. **Type of Services:** Marine, Structural, and Geotechnical Engineering. **Construction Value:** N/A **Firm Value:** \$112,840 **Client/Project Owner:** E2 Project Management, LLC / New Jersey Transit Corporation **Contact:** James C. Murawski – 87 Hibernia Avenue, Rockaway, NJ 07866 - (973) 299-5200 x208 – james.murawski@e2pm.com

Green Street Pier, Stabilization, Demolition and Reconstruction – Brooklyn, NY; The Green Street Pier and shoreline Improvement Project includes the design and construction of shoreline stabilization, two (2) water taxi landings, and the rehabilitation of the existing Green Street Pier and bulkhead. As a subconsultant, McLaren provided engineering inspection and design services as they related to the various shoreline treatments, pier structure and basic utilities. Scope of Services included the preparation of documents and filing for permit applications (U.S. Army Corps., New York State Department of Environmental Conservation, Coastal Zone Management, DSBS), development of preliminary and final design, as well as development of contract bid documents, which include construction drawings, technical specifications, and an opinion of probable construction cost with each phase of submission. Such documents were provided in three stages: Stage I – Shoreline Stabilization; Stage II – Demolition; and Stage III – Pier Reconstruction. Under this contract, McLaren was also tasked to provide bid phase support and construction administration services. **Type of Services:** Marine Engineering; Inspection and Design Services; Bid Phase Support; Construction Administration. **Construction Value:** \$16,000,000 **Firm Share:** \$625,500 **Client/Project Owner:** Park Tower Group **Contact:** Ms. Marian Klein Feldt - 499 Park Avenue, 27th Fl. New York, NY 10022-1240 - (212) 310-9642

PROJECT ORGANIZATION

Our view is that corporate qualifications and historical experience mean little without the commitment of senior level staff. The strength of our project team, therefore, is the people we assign. A summary of our project team is provided below. Detailed resumes of our proposed staff are also included, located in Section 5.

KEY PERSONNEL

All work associated with this contract will be assigned to and managed by McLaren's West Nyack, New York corporate headquarters. We have the staffing resources to fill the requirements of the Village of Port Chester, as well as any additional needs that may arise.

The McLaren Teams are led by Professional Engineers and a Professional Land Surveyor, all licensed in the state of New York. Each Team Leader has a minimum of 20-years of experience in their specialty. In the case of our divers, the team has a minimum of 24 years providing inspection and design services. Overall, our teams' expertise encompasses marine inspections, geotechnical investigations, surveying, civil engineering, waterfront design and construction, and resident engineering services. This experience provides the foundation for a deep understanding of applicable construction practices, codes, standards and requirements. Set forth below are brief bios of the key staff that will be assigned to this project with their respective roles indicated.

MCLAREN ENGINEERING GROUP

Malcolm G. McLaren, P.E., SECB will serve as **Principal-In-Charge** for this contract. Mr. McLaren is a registered professional engineer in the state of New York and has more than 40 years of design, engineering and inspection experience for marine, bridge/highway/rail, structural, site/civil, geotechnical, and forensics projects nationwide. As Principal-In-Charge, Mr. McLaren will provide management review, ensure that the appropriate resources of the team are available to conduct the work, and will provide senior-level input to technical aspects of the project.

Shea Thorvaldsen will serve as the **Project Manager/QC Engineer** for this contract. Mr. Thorvaldsen has more than 18 years of marine, site/civil and geotechnical engineering for waterfront structures. He has provided design, inspection, and cost estimating services for marine structures and various projects nationwide. Mr. Thorvaldsen has a diverse background that includes the management and on-site supervision of numerous waterfront project components from the principal's role down to the supervisory/foreman roles. This includes engineering, design build, resident engineering inspections, SWPPP inspections, permitting, estimating & budgeting, bid review & award, cost management and control, project scheduling, submittal and shop drawing management, payment and change order processing, safety, punch list administration, engineering and project closeout capabilities. Mr. Thorvaldsen's role as Project Manager will entail, but not be limited to the following:

- The Project Manager will serve as a single portal of contact and control between the Village and the staff assigned to the project to ensure cost efficient project management, clear direction to all project staff personnel and timely response to the Village.
- Providing direct oversight with regard to project execution and accountability
- Verifying and approving the project schedule and budget
- Implementing project changes as requested by the Village
- Providing all staff resources necessary for successful project implementation and completion
- Providing review and approval of project performance and deliverables

James V. Green, P.E. will serve as **Team Leader/PE Diver** for this contract. Mr. Green is a structural engineer and certified diver with over 24 years of experience. His background encompasses project management, resident engineering, field investigation, and construction inspection services, as well as report preparation and review, subaqueous investigation, and extensive structural analysis and design. His background includes experience in all facets of structural and civil engineering design on the waterfront, including bridges, ferry terminals, shipping facilities, piers and wharves, and foundation engineering. He is involved in the preparation of permit applications, EIS documentation, and consistency review documents, and coordination with agencies on permitting issues such as the USACE, the DEC, the Department of State, National Marine Fisheries Service, the Fish and Wildlife Service, and other local agencies.

Luke Daur, P.E., LEED AP will serve as the **Lead Geotechnical Engineer** for this contract. Mr. Daur holds a BS degree in Civil Engineering, PE license in NY and is a LEED Accredited Professional, he has 20 years of experience in a wide variety of site development and design projects in which he has supervised the design, field investigations and construction management of a wide range of construction activities. He possesses in-depth knowledge in civil, geotechnical and structural design, inspection and evaluation, drainage/water filtration, local and state permitting, and utility design and contract administration. His expertise includes foundation design, retaining wall design, bulkheads, slope stability, consolidation settlement, dam inspections, computer modeling and design recommendations for deep foundation support of piers and structures, forensic analysis of structural settlement, design of surcharging program, mass fill placement and compaction, laboratory testing and analysis of soil samples and pavement design.

Donald O. Viele, PLS will serve as the **Lead Surveyor** for this contract. Mr. Viele has over 33 years of land surveying experience, 10 of which as President/Owner/Operator of a Land Surveying firm in Livingston Manor, NY. His experience incorporates all aspects of the Land Surveying industry including sub-divisions, boundary surveys, zoning easements, topographic surveys, flight control, line and grade, residential housing, commercial buildings, state highways and bridges. He is thoroughly familiar with the requirements of various agencies such as Army Corps of Engineers, various Departments of Environmental Protection, Departments of Environmental Conservation relating to wetland delineations and location of wetlands and buffer zones. He has also served as an expert witness, in the New York State Circuit Court, on property disputes and accident cases.

Elizabeth J Kennedy, RLA, ASLA (EKLA) will serve as the **Principal Landscape Architect** for this contract. Ms. Kennedy founded EKLA PLLC in 1994. A registered landscape architect and working principal, she is an expert in green infrastructure, landscape restoration, designing for resilience, and cultural sites development and management. Ms. Kennedy is a Design Trust for Public Space Research Fellow and served as one of seven distinguished jurors for the Van Alen Institute's "Design Ideas for New York's Other River" competition. She facilitated peer professional charrettes for the Design Trust and, more recently, public design workshops for New York City Metropolitan Transit Authority.

Julie Abell Horn, M.A., RPA (HPI) will serve as the **Lead Archaeologist** for this contract. Ms. Abell Horn meets the professional qualifications of the National Park Service's 36CFR 61 and is certified by the Register of Professional Archaeologists (RPA). She has served as a Deputy Principal Investigator, Primary Author, or Project Manager for numerous cultural resource evaluations in New York, New Jersey, Pennsylvania, and Connecticut as part of HPI's team since 2003, as well as in many other states in the Northeast and Mid-Atlantic regions in previous positions. She has managed extensive primary research programs and written numerous comprehensive reports for both urban, rural, and waterfront sites. This has included undertaking historic and archival research, report writing and editing, artifact analysis, database management, statistical analysis, and computer graphics. Ms. Abell Horn's experience includes completing Environmental Impact Studies, Field Investigations, and Cultural Resource Assessments.

Conrad Dela Cruz, P.E. (Setty) will serve as the **Senior Electrical Engineer** for this contract. Mr. Dela Cruz has over 30 years of experience in the analysis and design of electrical systems for new construction, as well as for renovation and expansion projects in the hospitality, retail, corporate and academic sectors. Responsible for design and analysis of power, lighting, control system and fire alarm systems, he has performed power system studies and design-built construction engineering support services. His designs include transformer replacement, PCB abatement switchgear upgrades, fire detection systems, UPS, computer room service design, high voltage substations, exterior and site lighting, and lightning protection.

Malcolm G. McLaren, P.E., SECB
President & Chief Executive Officer
Project Role: Principal-In-Charge

Education:

Master of Science, Structural Engineering, Rutgers University, 1975
Bachelor of Science, Civil Engineering, Cornell University, 1973

Professional Registration:

Licensed Professional Engineer: New York #056880; and 44 other States and Commonwealths
Association of Diving Contractors International (ADCI) Certified Diver; National Association of SCUBA Diving Schools (NASDS) Certified Diver; OSHA – 10 Hour Construction Industry Outreach

Experience:

Mr. McLaren has more than 40 years of design, engineering and inspection experience for structural, bridge/highway/rail, site/civil, geotechnical, marine, and forensics projects nationwide. He has participated as engineer or manager on more than 11,000 projects varying in scope and difficulty. Design specialties include design of mixed-use high rise building structures; land use development; waterfront structure inspection and rehabilitation, especially relative to marine borer activity; design of unique bridge and rail structures; waterborne transportation facility design; intermodal transportation planning; and the design and use of composite materials. Representative projects include:

- **Brooklyn Navy Yard Areawide Waterfront Rehabilitation Design Services Contract; Project Executive;** Design of repairs, reinforcing, and protection of waterfront structures. Above and underwater inspection and assessment of piers, low-level relieving platforms, bulkheads/seawalls, and wharves. Services provided included preliminary and final design as well as preparation of construction cost estimates for the rehabilitation.
- **Village of Dobbs Ferry Waterfront Park Shoreline Stabilization; Project Executive;** Design a new riprap revetment and section of sheet piling bulkhead wall; preparation of cost analysis for construction; meetings with Village Officials; and environmental permitting. Construction documents and administration were provided. The project was partially funded by the NYSDOS Division of Coastal Resources (DCR); in conformance with DCR Program Work Plans.
- **Waterfront Revitalization – 4th and 5th Street Piers; Brooklyn, NY; for RD Management Corp; Project Executive;** Design, construction inspection and construction administration services. Work performed included the investigation of the waterfront structures including existing pile fields and bulkheads, hydrographic survey of the project area, as well as boring plans, waterfront site investigation, permitting services, conceptual designs and supervising the taking of geotechnical boring samples.
- **Staten Island Homeport Steel Sheet Pile Bulkhead/Seawall Rehabilitation; for NYCEDC; Project Executive;** McLaren provided engineering analysis and design for a replacement tied back bulkhead. A full set of construction drawings and technical specifications were prepared, as well as construction cost estimates and bid assistance.
- **Transmitter Park; for NYCEDC/NYCDPR/AECOM; Project Executive;** Open space improvements that include a pier, waterfront esplanade, and a waterfront park. Services included underwater inspection of timber low-level relieving platform and concrete seawall, schematic design, and consultation for the proposed park.
- **Harlem River Park Esplanade Waterfront Condition Assessment; for NYCDPR; Project Executive;** Shoreline rehabilitation, and bikeway designs for a 4,100 foot long linear park. Project included geotechnical studies, toxicity studies, waterfront condition assessment, marine borer activity assessment, water quality studies, structural analysis, soil borings, and a survey of the site.
- **Harbors at Haverstraw; for Ginsburg Development, LLC; Project Executive;** Waterfront redevelopment contract includes site/civil engineering; waterfront site development services that include marina development, geotechnical engineering, bathymetric survey of the shoreline, shoreline investigation and assessment, and shoreline design alternatives; and construction administration.

Shea Thorvaldsen
Director, Marine Division
Project Role: Project Manager/QC Engineer

Education:

B.S./Civil Engineering, Tulane University – New Orleans, 1997

Professional Registration and Certifications:

Engineer-in-Training: Louisiana

Professional Association of Diving Instructors (PADI) Rescue Diver

Emergency First Responder/O2 Provider

OSHA 30, OSHA 10

Experience:

Mr. Thorvaldsen has more than 18 years of marine, site/civil and geotechnical engineering for waterfront structures. Mr. Thorvaldsen has a diverse background that includes the management and on-site supervision of numerous waterfront project components from the principal's role down to the supervisory/foreman roles. This includes engineering, design build, resident engineering inspections, SWPPP inspections, permitting, estimating & budgeting, bid review & award, cost management and control, project scheduling, submittal and shop drawing management, payment and change order processing, safety, punch list administration, engineering and project closeout capabilities.

- **Marine Assessment, Design and Construction Administration of the Fulton Fish Market Substructure Repairs; New York, NY; for Turner Construction Company/ New York City Economic Development Corporation; Project Manager/Engineer;** which included condition survey of the pile-supported concrete platforms at Fulton Fish Market, design of concrete encasement repairs, permit applications, and resident engineering services.
- **Pier 81 Bulkhead & Waterfront; New York, NY; for the Hudson River Park Trust; Project Manager/Cost Estimator;** demolition and replacement of a Low Level Relieving Platform (LLRP) at Pier 81 in New York. The project included replacement of the LLRP with a steel Sheetpile bulkhead and upland cutoff wall, cellular concrete fill and encasement of the complete bulkhead.
- **SUNY Maritime Campus Waterfront; Bronx, NY; for the State University Construction Fund; Project Manager/Cost Estimator;** Construction of a waterfront pier and platform that includes: pipe piles, precast caps and slabs, bulkheads, land piles caps and grade beams, marine demolition and revetments, and divers and encasements for piles.
- **A11 Dock Shoreline Stabilization; Astoria, NY; for Consolidated Edison; Project Manager;** In charge of schedule and financial oversight, client relations and company performance, and daily operators on the approximately \$4.68 million dollar rehabilitation and shoreline stabilization of a relieving platform in Astoria on the East River. Included demolition of the platform, underwater excavation and demolition, amendment of soils (contaminated and non), and stone revetment construction. Also prepared the estimate for the job.
- **Pier Completion – Pier 62, Hudson River Park Trust; New York NY; Principal;** 1.8 million dollar completion of pier 62 to include marine timber pile and fendering construction, underwater and structural concrete formwork and repairs, and project closeout for defaulted General Contractor.
- **India Street Pier (Design Build) and The Edge Pier Construction, North 5th Street Pier; Greenpoint Brooklyn, NY; Executive Project Manager;** Mobilization, purchasing, schedule and financial oversight, client relations and company performance on three Brooklyn Waterfront projects for 7.4MM, 5.5MM and 4.8MM respectively. Included sheet pile bulkheads, pipe pile foundations and precast construction, finishes, and ferry landings.
- **Bulkhead Rehabilitation; Rockaways, NY; for FPL Energy; Executive Project Manager;** in charge of mobilization, purchasing, schedule and financial oversight, client relations and company performance on the approximately \$1.45 million dollar rehabilitation and soil nailing of a bulkhead off Jamaica Bay.

James V. Green, P.E.
Senior Engineer/P.E. Diver
Project Role: Team Leader/P.E. Diver

Education:

Bachelor of Science, Civil Engineering, Manhattan College, 1992
Associate of Science, Engineering Science, Rockland Community College, 1988

Professional Registrations and Certifications:

Professional Engineer: New York 078453-01-2001; and 9 other States
Transportation Worker Identification Credentials (TWIC); National Bridge Inspection Standards (NBIS), 2005 – Course #FHWA-NHI-130055; NBIS, 2010 – Refresher Course #FHWA-NHI-130053; Association of Diving Contractors International (ADCI), Surface-Supplied Air Diving Supervisor, #4733; Open Water Diver Certification, 1994; OSHA Confined Space Entry and Fall Protection, 2006; OSHA 30 Hour Occupational Safety and Health Training in Construction Safety & Health; Fatigue and Fracture Critical Bridge Inspection Course 20110257, March 2011; ASTI Certification Courses - CPR/AED, Emergency Oxygen Administration, Bloodborne Pathogens & OPIM and Universal First Aid - 2/25/2013 - 2/25/2015

Experience:

Mr. Green is a structural engineer and certified diver with over 24 years of experience. His background encompasses project management, resident engineering, field investigation, and construction inspection services, as well as report preparation and review, subaqueous investigation, and extensive structural analysis and design. His background includes experience in all facets of structural and civil engineering design on the waterfront, including bridges, ferry terminals, shipping facilities, piers and wharves, and foundation engineering. He is involved in the preparation of permit applications, EIS documentation, and consistency review documents, and coordination with and between agencies on permitting issues.

- **Underwater Inspection of Waterfront Structures at the Brooklyn Navy Yard: for BNY Development Corporation; Team Leader/P.E. Diver;** Underwater condition assessment of facilities including piers, bulkheads, and relieving platforms. Project included pre-construction survey and construction inspection of timber piles, concrete pile caps, underdeck, and pile wraps. Report included a condition assessment, structural analysis, repair recommendations, and cost estimates.
- **Waterfront Revitalization - 4th and 5th Street Piers at Kent Avenue; for RD Management Corp; Assistant Project Manager;** Mr. Green performed an investigation of the 4th and 5th Street Piers – an assessment that included a hydrographic survey and a geotechnical investigation/sampling – while managing the construction inspection and permitting processes.
- **Port Elizabeth Berths 88-98 & Turntable; for PANYNJ; P.E. Diver;** Involved with underwater inspection of timber and steel piles, pile caps and extensions and assessment of the concrete edge beam, wharf topside, and steel sheet pile bulkhead. Mr. Green assisted in the preparation of a report indicating inspection findings, presenting pertinent photographs, and priority repair recommendations.
- **Underwater Condition Inspection of 4 Bulkheads at the New York Marine Terminal; for PANYNJ; P.E. Diver;** High and low-level inspection of the relieving platforms and bulkheads. The project involved visual inspection of all above water elements including the deck underside, edge beams, reinforced concrete pile extensions, and stay lathing/bracing, as well as detailed underwater inspection services for the bulkheads.
- **Resident Engineering Inspection for the Hunter's Point South Infrastructure and Park; for LiRo Engineers, Inc.; Inspection Team Leader;** responsible for the construction supervision and inspection services at Hunter's Point South. Mr. Green is inspecting new rip-rap and bulkhead installed at the site, in addition to construction of a marsh.
- **FDNY Marine 9 Barracks at Staten Island Homeport, for NYCEDC; Waterfront Inspector/P.E. Diver;** for the provision of construction management services at the FDNY Barracks and wave attenuator at the Stapleton Pier. Mr. Green reviewed the design, prepared cost estimates, and performed a construction inspection at the project site.

Luke Daur, P.E., LEED AP
Senior Civil Engineer
Project Role: Lead Geotechnical Engineer

Education:

Bachelor of Science, Civil Engineering, Manhattan College, 1989
US Navy Civil Engineering Corp Training 1992 (6 months)

Professional Registrations and Certifications:

Professional Engineer: New York, 090149 – 2012 / LEED Accredited Professionals (LEED AP), 2009

Experience:

Mr. Daur holds a BS degree in Civil Engineering, PE license in NY and is a LEED Accredited Professional, he has 20 years of experience in a wide variety of site development and design projects in which he has supervised the design, field investigations and construction management of a wide range of construction activities. He possesses in-depth knowledge in civil, geotechnical and structural design, inspection and evaluation, drainage/water filtration, local and state permitting, and utility design and contract administration. His expertise includes foundation design, retaining wall design, bulkheads, slope stability, consolidation settlement, dam inspections, computer modeling and design recommendations for deep foundation support of piers and structures, forensic analysis of structural settlement, design of surcharging program, mass fill placement and compaction, laboratory testing and analysis of soil samples and pavement design. His experience and training in the US Navy (Civil Engineering Corp), as well as his practical experience in the civilian engineering world gives him a large pool of experience and knowledge in all aspects of the engineering industry. Representative projects include:

- **Tarrytown Castle on Hudson; for KTG Group, Inc.; Lead Geotechnical Engineer;** Mr. Daur formulated a boring plan that encompassed investigation inside and outside of an active resort facility. He provided a geotechnical report that contained recommendations for foundations, soil mitigation measures, and seismic design characteristics.
- **Chelsea Piers - Pile Load Testing Services, NYC, NY; for Chelsea Piers Management, Inc.; Lead Geotechnical Engineer;** Engineering consulting services associated with the static load tests being performed on the three (3) existing piles that support the piers and the Chelsea Piers structures.
- **420 Kent Avenue; Geotechnical Engineering Services; Brooklyn, NY; Lead Geotechnical Engineer;** Soil borings, rock corings, identification and classification of soil stratigraphy and bedrock, and recommendations for site earthwork and foundation construction. Geotechnical reports for each building site complete with engineering analysis and recommendations.
- **77 Commercial Street; Brooklyn, NY; for Clipper Equity; Lead Geotechnical Engineer;** Mr. Daur was responsible for the supervision of 20+ boring samples as required by NYCDOB; field investigation including development of boring plan and specifications; geotechnical engineering and report; design development; development of construction documents; and construction phase services.
- **SUNY Master Plan-Maritime; Bronx, NY; for Perkins Eastman; Geotechnical Engineer;** provided a summary of soils and drainage and local climate conditions. Provided PE the summary for their analysis of climate conditions with regard to building forms and landscape buffers and identifying site improvement opportunities and constraints.
- **Henry Hudson Quadricentennial Waterfront Park and Promenade; Lead Civil Engineer;** Tasks included: hydrographic surveys of areas requiring slope/shoreline stabilization, phase I ESA, soil investigation, archeological and historic resource survey, wetland assessment and ecological evaluation, schematic design alternatives, SEQR, construction requirement analysis, final design and construction documents, permits, and bid and construction phase services.
- **Transmitter Park; Brooklyn, NY; for NYCEDC/NYCDPR/AECOM; Lead Design Engineer;** Services included design of park infrastructure and grading, stormwater design and permitting, DEP connection permit and construction phase services, and consultation for the proposed park.

Donald O. Viele, P.L.S.
Survey Division Chief / Principal Surveyor
Project Role: Lead Surveyor

Education:

Mohawk Valley Community College, Survey Technology, 1983

Professional Registrations:

Licensed Land Surveyor: New York #050454-1

Software/Equipment Proficiency:

Carlson 2014 Survey Software, AutoCAD, GPS and Total Station Equipment, Microsoft Word, Outlook, Excel, Theodolite and Levels

Experience:

Mr. Viele has over 33 years of land surveying experience, 10 of which as President/Owner/Operator of a Land Surveying firm in Livingston Manor, NY. His experience incorporates all aspects of the Land Surveying industry including sub-divisions, boundary surveys, zoning easements, topographic surveys, flight control, line and grade, residential housing, commercial buildings, state highways and bridges. He is thoroughly familiar with the requirements of various agencies such as Army Corps of Engineers, various Departments of Environmental Protection, Departments of Environmental Conservation relating to wetland delineations and location of wetlands and buffer zones. He has also served as an expert witness, in the New York State Circuit Court, on property disputes and accident cases. Work experience includes:

- **NJDOT - FEMA Category B - EPM – Sonar/Bathymetric Surveys; for Parsons Brinkerhoff/NJDOT; *Principal Surveyor***; responsible for the sonar/bathymetric surveys for approximately 100 nautical miles of state channels, utilizing single beam sonar of sufficient density to determine the depth and 3D contour of the channel bottom in an effort to locate and map debris as part of the NJDOT Hurricane Sandy Recovery FEMA Category B - Emergency Protective Measures effort.
- **Town of Haverstraw Henry Hudson Quadricentennial Park and Waterfront Promenade; *Principal Surveyor***; Topographic survey, boundary and property surveys associated with the design and construction of the new park.
- **Survey & Site/Civil Engineering Services; NYCDPR; *Lead Surveyor***; providing various surveying services which include: topographic, boundary, property, utility, wetland delineation and mapping services.
- **The Castle; Tarrytown, NY; for KTG; *Principal Surveyor***; Boundary and topographic surveys performed as part of the planned expansion at The Castle in Tarrytown, NY.
- **NYCDOT/NYCDDC Topographic Surveys –B. Thayer Associates; *Project Manager/Lead Surveyor***; Surveying services to provide final mapping to specifications to the satisfaction of the NYCDDC for 8 different locations (approximately 5,415 linear feet) throughout Staten Island, NY.
- **NYS DOT Region 10 RDSA – Surveying Services; for Stantec Consulting Services, Inc.; *Lead Surveyor***; Hydrographic and Side Scan Surveys. Surveys are being performed over the entire length of the bridges and 100' on either side of the bridge, encompassing the piers with lead lines from the piers for contouring. Survey Plot and Report will be provided detailing the findings of the surveys.
- **Underwater Sonar Inspection of the Newark Upper Bay Railroad Bridge; Norfolk Southern Corporation; *Principal Surveyor*** responsible Fathometric and Sonar Surveys performed to determine the structural and scour conditions of 32 underwater piers on the Upper Bay Lift Bridge. The underwater evaluation of the submerged piers was accomplished using underwater acoustic imaging techniques, plan view imaging and vertical imaging.
- **West Point USMA United States Army Garrison, for Di Iorio Construction Corp.; *Principal Surveyor*** responsible for the Topographic Survey, Utility Survey and CSXT Railroad property survey.
- **Crestron Electronics Building & Parking Expansion, Orangetown Warehouse; for Crestron Electronics; *Principal Surveyor*** responsible for the boundary, topographic, parking expansion, wetland study, and construction stake out and permitting services for approximately 18 acres.



ELIZABETH J KENNEDY, RLA, ASLA, NOMA-NYCOBA Principal

EDUCATION

BS College of Human Ecology,
Cornell University, 1978

Graduate Studies in Landscape
Architecture, Cornell University,
1978-1981

REGISTRATION/CERTIFICATION

Registered Landscape Architect,
New York State (04-001449-01),
Licensed in 1994

PROFESSIONAL AFFILIATIONS

Member, American Society of
Landscape Architects

Member, National Trust for
Historic Preservation Forum

Member, Society for Ecological
Restoration

Member, National Organization
of Minority Architects

Member, Association for
Preservation Technology
International

Member, Municipal Arts Society

Elizabeth J Kennedy founded EKLA PLLC in 1994. A registered landscape architect and working principal, she is an expert in green infrastructure, landscape restoration, designing for resilience, and cultural sites development and management.

Under her direction, EKLA PLLC has received awards for excellence in design, preservation and sustainable site design from the Public Design Commission, New York Landmarks Conservancy, Preservation League of New York State, US EPA and the Mayors Office of Sustainability, the National Organization of Minority Architects, NY AIA, and Long Island AIA. She has received notable awards for her contribution to landscape architecture and professional development from the Association of Minority Entrepreneurs of New York, the NAACP's New York Chapter, and NYC's Department of Small Business Services.

Ms. Kennedy is a Design Trust for Public Space Research Fellow and served as one of seven distinguished jurors for the Van Alen Institute's "Design Ideas for New York's Other River" competition. She facilitated peer professional charrettes for the Design Trust and, more recently, public design workshops for New York City Metropolitan Transit Authority. She speaks regularly in public on issues in urban design, community revitalization, sustainable cultural preservation, and green roof design, with stints as a conference panelist at Harvard Graduate School of Design, the Smithsonian Institution's Cooper Hewitt National Design Museum, SOBRO, Sustainable Brooklyn, National Organization of Minority Architects, and Pratt Center for Community Development.

Ms. Kennedy's construction knowledge stems from hands-on experience. Between 1993 and 1994, she profitably managed the development of 77 new affordable housing units under NYC Partnership's Housing Program, for which she implemented cost tracking and estimating procedures, prepared bids, and supervised trade labor performing sitework. Before working in housing development, she managed several landscape construction crews, and supervised large tree installations and specimen materials transplanting. She has since written specifications for the protection and restoration of heritage trees and living landmarks listed on the National Register of Historic Places.

Built by Women Award for Landscape, Brooklyn Navy Yard Roof Farm, 2014

FELLOWSHIPS

Design Trust for Public Space Research
Fellow, "Designing for Security:
Guidelines for the Art Commission of
NYC," 1997-1998

Robert J. Eidlitz Fellow in Architecture,
Cornell University, 1981

E. Gorton Davis Fellow in Landscape
Architecture, Cornell University, 1981

CIVIC AWARDS & PUBLIC SERVICE

Built by Women Award for Landscape,
Weeksville Heritage Center, 2014

Brooklyn Chamber of Commerce
Black History Month Celebration,
in Recognition of Outstanding
Contributions to the Borough of
Brooklyn, 2012

NYC Department of Small Business
Services MWBE Rising Star Award.
2008

AMENY Award, Minority
Entrepreneur of the Year. 2005

Congressional Achievement Award,
by Office of Congressman Gregory
Meeks, 2005

NAACP New York Chapter, Woman
of Achievement in Landscape
Architecture Award, 2004

Juror: Van Alen Institute, "Design
Ideas for New York's Other River"
competition, 1998

Board Member: Brooklyn Center for
the Urban Environment, 1997-2005

HISTORICAL PERSPECTIVES INC.



Julie Abell Horn, M.A., RPA meets the professional qualifications of the National Park Service's 36CFR 61 and is certified by the Register of Professional Archaeologists (RPA). She has served as a Deputy Principal Investigator, Primary Author, or Project Manager for numerous cultural resource evaluations in New York, New Jersey, Pennsylvania, and Connecticut as part of HPI's team since 2003, as well as in many other states in the Northeast and Mid-Atlantic regions in previous positions. She has managed extensive primary research programs and written numerous comprehensive reports for both urban, rural, and waterfront sites. This has included undertaking historic and archival research, report writing and editing, artifact analysis, database management, statistical analysis, and computer graphics. Ms. Abell Horn's experience includes completing Environmental Impact Studies, Field Investigations, and Cultural Resource Assessments.

Ms. Abell Horn has served as Project Manager for the following New York projects.

- **Bronx River Greenway Archaeological Assessment**, Bronx Park, City of New York Parks and Recreation, The Bronx River Alliance, NYS DOT and NYC DOT;
- **PepsiCo World Headquarters**, Archaeological Sensitivity Assessment for Master Plan, Harrison, NY;
- **Pelham Bay Park Shoreline Restoration**, Archaeological Sensitivity Assessment and Test Excavations, City of New York Parks and Recreation, Bronx;
- **Staten Island North Shore Land Use Study** for the NYC and Staten Island Economic Development Corporation;
- **Staten Island West Side Light Rail Alternatives Analysis** for the Staten Island Economic Development Corporation;
- **Bayonne Bridge Navigational Clearance Program, Archaeological Assessment**, Port Authority of New York and New Jersey;
- **Brynwood Golf and Country Club**, Phase I Archaeological and Historic Resources Investigation, NYS Route 22, Armonk, NY;
- **Yonkers, Austin Avenue Multi-Use Development Project, Stew Leonard Dr., Sprain Rd. and Austin Ave.**, Phase IA and IB Archaeological Assessment, Westchester Co., NY
- **Brooklyn IKEA Site**, Phase IA Archaeological Assessment, Block 612, Lot 130, Red Hook, Erie Basin, Brooklyn; and,
- **St. Nersess Armenian Seminary**, Phase IA and IB Archaeological Assessment, North Castle, NY.

Education

University of California, Berkeley, California, B.A. (Anthropology)
George Mason University, Fairfax, Virginia, M.A. (Applied History)

Professional Affiliations

Register of Professional Archaeologists
Society for Historical Archaeology

P.O. Box 529 • Westport • Connecticut • 06881

Roger Clements

Principal, FRICS, CCC



Years of Experience:	40 years
Education:	Anglia Ruskin University, Cambridge, England, Bachelor of Science Quantity Surveying 1976
Registrations/Certifications:	AACE International, Certified Cost Consultant (CCC), Fellow of the Royal Institute of Chartered Surveyors (FRICS)

Mr. Clements currently serves as Principal of Toscano Clements Taylor. Roger has four decades of experience preparing estimates from Conceptual through Construction Documents on all construction trades in both the public and private sectors. His particular areas of expertise include Courthouses, Healthcare, Higher Education and Wastewater Treatment Facilities. In his position as Director of Projects, Roger manages teams of several estimators to ensure that all estimates are delivered on schedule. He regularly attends design meetings and coordinates all changes with the clients. He has a successful record in controlling schedule, budget and program requirements for major facilities while maintaining harmonious consultant-client relations from project inception to completion. Roger has worked on several On Call Cost Estimating term contracts for SUCF, NYU Langone Medical Center, DASNY, PANYNJ and NYC SCA agencies.

Project Experience:

- **Battery Park City Esplanade Repairs**, Battery Park City, NY
- **Battery Park City Pier A**, Battery Park City, NY
- **Hudson River Park Trust Pier 40**, New York, NY
- **Yonkers Saw Mill Daylighting Riverwalk**, Yonkers, NY
- **NYC OMB Super Storm Sandy Recovery**, New York, NY
- **NYC EDC Brooklyn Army Terminal**, Brooklyn, NY
- **NYC EDC Bush Terminal Strategic Plan**, Brooklyn, NY
- **NYC EDC Queens West Stage**, Long Island City, NY
- **Buffalo Grain Elevator Alley: Connecting Terminal, Ohio St Bridge, Skyway Bridge**, Buffalo, NY
- **Suffolk County Department of Parks, Recreation & Conservation Smith Point Park Restoration**, Suffolk County, NY
- **Roosevelt Government Operations Center-New Construction & Historic Preservation (1905)**, Mineola, NY
- **Canary Wharf Redevelopment**, London, England, London
- **Bethworks Redevelopment of Steelwork Complex**, Bethlehem, PA
- **FDNY Engines - Task Orders**, New York, NY
- **NYC DPR Conference House Park Pavilion**, Staten Island, NY
- **NYC DPR Highline Park Maintenance Building**, New York, NY
- **NYC DPR Kosciusko Pool**, Brooklyn, NY
- **NYU Langone Medical Center On Call Task Orders**, New York, NY
- **Philadelphia Navy Yard, Quarters M5 +M6**, Philadelphia, PA
- **Oyster Bay Railroad Museum**, Oyster Bay, NY
- **Far Rockaway Park Buildings**, Far Rockaway, NY
- **Coast Guard Buffalo Master Site Plan**, Buffalo, NY
- **Columbia University Manhattanville Campus**, New York, NY
- **DEP Citywide Sludge Dewatering Facilities Improvement Contract**, New York, NY
- **DEP West of Hudson Headquarters & Laboratory Consolidation**, Kingston, NY
- **DOC Otis Bantam Corrections Center on Rikers Island**, Bronx, NY
- **Jamaica Water Pollution Control Plan Aeration Systems**, Jamaica, NY
- **Southampton Bath and Tennis Club**, Southampton, NY
- **SUNY Maritime Master Plan**, Throggs Neck, NY
- **TBTA Marine Parkway / Gil Hodges Bridge Toll Plaza & Service Building**, New York, NY
- **TBTA Toll Plaza & Service Buildings on the Triborough Bridge**, New York, NY
- **Town of Huntington Boat House**, Huntington, NY

ROLE:

Senior Electrical Engineer

YEARS EXPERIENCE:

Total: 34 with Firm: 7

REGISTRATIONS:

2000/Professional Engineer/NY
2009/ICC Electrical Plans Examiner
2010/ICC Commercial Energy
Inspector

EDUCATION:

BS/1980/Electrical Engineering

Mr. Dela Cruz has over 30 years of experience in the analysis and design of electrical systems for new construction, as well as for renovation and expansion projects in the hospitality, retail, corporate and academic sectors. Responsible for design and analysis of power, lighting, control system and fire alarm systems, he has performed power system studies and design-built construction engineering support services. His designs include transformer replacement, PCB abatement switchgear upgrades, fire detection systems, UPS, computer room service design, high voltage substations, exterior and site lighting, and lightning protection. His experience includes:

CUNY NYCCT – NAMM HALL ATRIUM, FEASIBILITY STUDY & LIGHTING DESIGN, BROOKLYN, NY

- ▷ Provided electrical feasibility study report for lighting upgrades in the Namm Hall Atrium, at New York City College of Technology.
- ▷ Provided Electrical Lighting Upgrade services and site survey for investigation of existing lighting system.
- ▷ Developed a computer generated lighting calculation simulation of the existing lighting system as baseline, and evaluated for future options.
- ▷ Performed code analysis and calculations as per NYCECC.

SOUTHWEST WATERFRONT, MASTER UTILITY PLANNING AND DESIGN WASHINGTON, DC

- ▷ Setty provided mechanical, plumbing and electrical master planning services for the 26-acre mixed-use Southwest Waterfront which is anticipated to be the first DC neighborhood on the waterfront.
- ▷ Providing MEP design services for Parcels 1, 2, 3A and 4 which includes residential, retail, hotel, cultural, office and parking.

THE YARDS, SOUTHEAST FEDERAL CENTER FOR FOREST CITY, WASHINGTON, DC

- ▷ Setty provided MEP design services for the five acre park.
- ▷ Engineered power for receptacles, pole light, tree up lights, building up lights and accent lighting.
- ▷ The Yards Park located in Washington, D.C. is one of the two parks selected at Urban Land Institute (ULI)'s Fall Meeting in Chicago as **2013 Urban Open Space Award** winning project.

BROOKLYN ARMY TERMINAL (BAT), SEWER EJECTOR SYSTEM UPGRADE & ENGINEERING DESIGN, BROOKLYN, NY

- ▷ Providing engineering and designing an upgrade to the sewer ejector system at the Brooklyn Army Terminal.
- ▷ Investigation of Existing Sewer Ejector System Pipe and Manhole Structures.
- ▷ Design Electrical Power Panel required for system.

DRES, IDIQ CONTRACT: 2850 NY AVE NE METROPOLITAN POLICE STATION, WASHINGTON, DC

- ▷ Provide MEP design services for the Metropolitan Police Station.
- ▷ Electrical design includes new branch circuitry, as required to support tenant lighting and devices, as extended from existing base building power distribution panel boards provided for Tenant use.
- ▷ Plumbing design includes connection of new tenant fixtures to an existing plumbing infrastructure.



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
6/2/2014

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER PG Genatt Group LLC 3333 NEW HYDE PARK RD SUITE 409 NEW HYDE PARK NY 11042	CONTACT NAME: Julio Delgado PHONE (A/C, No, Ext): 516-869-8788 E-MAIL ADDRESS:	FAX (A/C, No): 1-516-706-2973
	INSURER(S) AFFORDING COVERAGE	
INSURED M.G. McLaren P.C. McLaren Technical Services Inc. 100 Snake Hill Road West Nyack NY 10994	INSURER A: Ironshore Indemnity Inc NAIC # 23647	
	INSURER B:	
	INSURER C:	
	INSURER D:	
	INSURER E:	
	INSURER F:	


COVERAGES **CERTIFICATE NUMBER:** 131335808 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
	GENERAL LIABILITY <input type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC						EACH OCCURRENCE \$ DAMAGE TO RENTED PREMISES (Ea occurrence) \$ MED EXP (Any one person) \$ PERSONAL & ADV INJURY \$ GENERAL AGGREGATE \$ PRODUCTS - COMP/OP AGG \$
	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> NON-OWNED AUTOS						COMBINED SINGLE LIMIT (Ea accident) \$ BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
	<input type="checkbox"/> UMBRELLA LIAB <input type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED RETENTION \$						EACH OCCURRENCE \$ AGGREGATE \$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below						<input type="checkbox"/> WC STATUTORY LIMITS <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ E.L. DISEASE - EA EMPLOYEE \$ E.L. DISEASE - POLICY LIMIT \$
A	PROFESSIONAL LIABILITY			001037203	6/13/2014	6/13/2015	\$2,000,000 \$2,000,000 \$50,000 EACH CLAIM AGGREGATE SIR

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

EVIDENCE OF INSURANCE

CERTIFICATE HOLDER M.G. MCLAREN, P.C. 100 SNAKE HILL ROAD WEST NYACK NY 10994	CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
	AUTHORIZED REPRESENTATIVE 



CERTIFICATE OF LIABILITY INSURANCE

Page 1 of 1
DATE (MM/DD/YYYY)
06/10/2014

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Willis of New York, Inc. c/o 26 Century Blvd. P. O. Box 305191 Nashville, TN 37230-5191	CONTACT NAME:		
	PHONE (A/C, NO, EXT):	877-945-7378	FAX (A/C, NO): 888-467-2378
	E-MAIL ADDRESS:	certificates@willis.com	
INSURED M.G. McLaren P.C. McLaren Technical Services Inc 100 Snake Hill Road West Nyack, NY 10994	INSURER(S) AFFORDING COVERAGE		NAIC #
	INSURER A:	Continental Casualty Company	20443-001
	INSURER B:	National Fire Insurance Company of Hartford	20478-001
	INSURER C:	Continental Casualty Company	20443-076
	INSURER D:	Continental Casualty Company	20443-004
	INSURER E:		
	INSURER F:		

COVERAGES CERTIFICATE NUMBER: 21689188 REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN. THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADD'L SUBR INSRD WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	GENERAL LIABILITY <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> contractual Liability <input checked="" type="checkbox"/> Ind Contractors GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC		B6011138099	6/13/2014	6/13/2015	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 300,000 MED EXP (Any one person) \$ 10,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000
B	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS HIRED AUTOS <input type="checkbox"/> NON-OWNED AUTOS		B6011105569	6/13/2014	6/13/2015	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
C	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input checked="" type="checkbox"/> RETENTION \$ 10,000		3013168162	6/13/2014	6/13/2015	EACH OCCURRENCE \$ 5,000,000 AGGREGATE \$ 5,000,000
D	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N N N/A	3013166461	6/13/2014	6/13/2015	<input checked="" type="checkbox"/> WC STATU-TORY LIMITS OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach Acord 101, Additional Remarks Schedule, if more space is required)

CERTIFICATE HOLDER

CANCELLATION

Evidence of Insurance	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
	AUTHORIZED REPRESENTATIVE



Contact:

William J. McCarthy III

**McLaren Engineering Group
100 Snake Hill Road
West Nyack, NY 10994**

**131 West 35th Street, 4th Floor
New York, NY 10001**

845.353.6400



bridge, highway & rail engineering
entertainment engineering
subaqueous investigation
civil & site engineering
structural design
marine facilities
geotechnics
surveying
forensics

March 16, 2015

Village of Port Chester – Village Hall
222 Grace Church Street
Port Chester, New York 10573

Attn: Christopher Steers
Village Manager

Re: **COST PROPOSAL** for Design and Construction Plans for Repair of Byram River Bulkhead - RFP No:
RFP-VP-1000444 - McLaren File No. 150163

Dear Mr. Steers:

M.G. McLaren P.C. (McLaren) is pleased to submit one (1) original, and ten (10) copies, of our cost proposal to provide engineering consulting services for the subject project. Based on our unique experience and qualifications, we strongly believe that we are ideally suited to provide the highest level of engineering services to the Village of Port Chester; hereinafter referred to as the “Village.”

McLaren is eager to meet or exceed your needs, preferences and requirements on this contract based on but not limited to the following key attributes:

- **38 Years of Engineering Excellence...**McLaren possess a 38-year history of providing full design, engineering, and inspection services that includes bridges, roadways, structures of all types, waterfront facilities, site/civil, and surveying for clients in both the public and private sector. Our portfolio features over 12,000 projects with various degrees of complexity.
- **Marine Design and Engineering Expertise...**Our experienced staff of marine and ocean engineers possesses expertise in design of all types of marine structures, including dams, piers, wharves, bulkheads, floating docks, and floating terminals, built to different criteria for numerous applications. We are familiar with both traditional and advanced materials and various methods of construction, costs, specifications, and means of analysis.
- **In House Dive Teams...**McLaren is able to mobilize up to six (6) fully equipped dive teams upon a moment’s notice. Our Team Leaders are On-Staff P.E. Licensed Inspectors/Divers, and all of our Inspectors/Divers are NBIS and ADCI Certified. They are specialists in low visibility and cold weather dive inspections of dams, culverts, and bridges, and have considerable experience in the inspection of internal pipes utilizing ROVs and the latest in underwater videography and photography.
- **In House Geotechnical Expertise...**Our in-house Geotechnical Engineer has over 20 years of experience in the development of boring plans and specifications, geotechnical engineering and reporting, design development, development of construction documents, and construction phase services.
- **Marine Geotechnical Expertise...**Having installed over a thousand marine structures, we are well aware of the peculiarities of obtaining borings on the water with barge mounted equipment. Further we are well schooled in interpreting the result of such investigations and developing appropriate design parameters for both vertical and lateral loads.
- **Construction Inspection & Management Expertise...**McLaren’s team of expert marine engineers is extremely familiar with design and construction of waterfront structures. Our exceptional knowledge of all types of marine structures – bulkheads, piers, ferry terminals, berthing systems, etc. – and our long history of working closely with many waterfront development/rehabilitation projects makes

Offices: New York, Maryland, Florida, Connecticut, California

Licensed in:

Alabama • Arizona • Arkansas • California • Colorado • Connecticut • Delaware • District of Columbia • Florida • Georgia • Hawaii • Idaho • Illinois
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M.G. McLaren P.C.

100 Snake Hill Road

West Nyack, NY 10994

Phone (845) 353-6400

Fax (845) 353-6509

e-mail: mgmclaren@mgmclaren.com

On the web: www.mgmclaren.com

March 13, 2015

McLaren qualified to offer resident engineering and construction management services during the construction of the Port Chester bulkhead.

- **“APPLIED INGENUITY”**...The motto, goal and indeed, mantra at McLaren is “Applied Ingenuity.” It is our intent to be ever improving - exploring new solutions to old problems and constantly striving to serve our clients better. We will never rest on our accomplishments nor will we be satisfied with what we did yesterday. Ours is a determination to perform better than we did on the last project.

McLaren has a continuing interest in supporting the opportunities for businesses certified as minority or women owned by the New York State Department of Economic Development. We augment our staff and capabilities for this assignment with the able assistance of our subconsultants, listed below.

- **Elizabeth Kennedy Landscape Architect, PLLC (EKLA) MBE/WBE Certified**...is led by Elizabeth Kennedy, RLA, ASLA. Ms. Kennedy’s planning and design approach is based on a clear analytical perspective that derives from construction industry experience, training in environmental psychology and landscape architecture, and the practical insights of a small business owner. What distinguishes her thinking is the diversity of her background – it introduces an alternate point of view that influences clients to think differently about landscape architecture and its possibilities.
- **Historical Perspectives, Inc. (HPI) WBE Certified**...Is a cultural resources consulting firm that offers a wide variety of services from SEQR compliance for cultural resources, Section 106 coordination, archival research and archaeological reconnaissance surveys to visual impact analysis and historic structures recordation. Specialists in producing assessments for environmental review procedures, HPI has been in business for over thirty years. HPI is fully qualified to record sites to Historic American Engineering Record (HAER) and Historic American Buildings Survey (HABS) levels, as required by many federally-funded projects.
- **Jersey Boring and Drilling (JBD) WBE Certified**...Is a fifth generation, family owned business that provides geotechnical, environmental drilling and sampling services includes Test borings, Well installations, Geotechnical instrumentation installations, Concrete and asphalt coring, and Maintenance and protection of traffic. They have worked with us on many projects throughout New York.
- **Setty & Associates, Ltd. PC (Setty) MBE Certified**...is a full service engineering firm, now in its 30th year. Their professionals include electrical, mechanical, plumbing, fire protection, commissioning and controls engineers. Offered services include condition assessments, design programming, design, design-build, RFP development, construction management, and commissioning services.

McLaren strongly believes that our qualifications and corporate depth meet your requirements and will provide the Village with technically sound, and cost efficient design solutions. We look forward to providing our services on this contract and further developing our professional relationship with you. Please do not hesitate to contact me at (845) 353-6400 or wmccarthy@mgmclaren.com, if you have any questions or require any additional information.

Very truly yours,

The Office of
M.G. McLaren, P.C.



William J. McCarthy, III
Director of Business Development

Enclosures

cc: File 150163, WJM

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M.G. McLaren, P.C.

Cost Proposal

TASK	PROPOSED COST
Task 6, Kick Off Meeting	\$ 5,718
Task 7, Site Reconnaissance and Schematic Designs	\$ 73,064
Task 8, Public Meeting	\$ 15,418
Task 9, Construction Requirement Analysis	\$ 11,788
Task 10, Environmental Quality Review	\$ 6,238
Task 11, Draft Final Design	\$ 72,016
Task 12, Final Design and Construction Documents	\$ 65,016
Task 13, Permitting	\$ 26,496
Total Cost	\$ 275,754
<i>Note: There will be no allowance for reimbursable expenses. All costs, including copying, mailings, and travel should be included in the tasks above.</i>	

TASK	PROPOSED COST
Construction Administration	\$ 19,100
Construction Inspection	\$ 92,400
Total Cost	\$ 111,500
<i>Note: There will be no allowance for reimbursable expenses. All costs, including copying, mailings, and travel should be included in the tasks above.</i>	

Cost Proposal Breakdown

McLaren Engineering Group

Personnel Classification and Average Hourly Rates																					
	McLaren G. Mc Larn, P.E., S.E.C.B.	Shoa Thorvaldson	Shoa Thorvaldson	Sr. Eng. III/IV	Sr. Eng. III	Staff Eng. I/III	Staff Eng. I	Jr. Eng.	Cross-Sectional Engineer	Lead Driver	Diver	Tender	Assoc. Land (PW=Party Chief)	Principal Survey (PW=Instrument Person)	Junior Technician (PW=Kodiak)	Chief CAD Operator	Senior CAD Operator	CAD Operator	Junior CAD Operator	TBD	TOTAL TIME & FEE
	\$245	\$215	\$185	\$165	\$140	\$120	\$110	\$100	\$165	\$155	\$155	\$130	\$155	\$90	\$80	\$135	\$125	\$100	\$75	TBD	\$85
TASK 6 - Kick Off Meeting																					
Project Meeting	4		4																		16
Total Time	4		4																		16
Subtotal PHASE 1	\$980	\$0	\$740	\$0	\$0	\$960	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,680
With Multiplier	\$980	\$0	\$740	\$0	\$0	\$960	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,680
TASK 7 - Site Reconnaissance and Schematic Designs																					
Site Reconnaissance	1		4																		21
Underwater Inspection	1		4																		63
Hydrographic Survey																					72
Topographic Survey																					8
Geotechnical Investigations	2		1	24																	96
Schematic Designs (30%)	2		4			16															72
Meetings (1)	2		4																		64
Total Time	8		17	32	0	32	0	80	0	8	8	8	32	80	40	6	4	104	0	0	459
Subtotal PHASE 2	\$1,960	\$0	\$3,145	\$5,280	\$0	\$3,840	\$0	\$8,000	\$0	\$1,240	\$1,240	\$1,040	\$4,960	\$7,200	\$1,200	\$810	\$500	\$10,400	\$0	\$0	\$52,815
With Multiplier	\$1,960	\$0	\$3,145	\$5,280	\$0	\$3,840	\$0	\$8,000	\$0	\$1,240	\$1,240	\$1,040	\$4,960	\$7,200	\$1,200	\$810	\$500	\$10,400	\$0	\$0	\$52,815
TASK 8 - Public Meeting																					
Public Meeting	8		8			16															72
Total Time	8		8			16															72
Subtotal PHASE 3	\$490	\$0	\$490	\$0	\$0	\$960	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,940
With Multiplier	\$490	\$0	\$490	\$0	\$0	\$960	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,940
TASK 9 - Construction Requirement Analysis																					
Construction Requirement Analysis	2		8			16															26
Total Time	2		8			16															26
Subtotal PHASE 4	\$490	\$0	\$490	\$0	\$0	\$960	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,940
With Multiplier	\$490	\$0	\$490	\$0	\$0	\$960	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,940
TASK 10 - Environmental Quality Review																					
Environmental Quality Review	1		8			16															25
Total Time	1		8			16															25
Subtotal PHASE 5	\$215	\$0	\$1,720	\$0	\$0	\$3,440	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,250
With Multiplier	\$215	\$0	\$1,720	\$0	\$0	\$3,440	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,250
TASK 11 - Draft Final Design																					
Draft Final Design	8	12	12	36		64	80	16	24							6	16	64	16		338
Construction Documents (60%)	4		12			16			8												56
Cost Estimates																					0
Total Time	12	12	24	36	0	16	64	96	32	0	0	0	0	0	0	6	16	64	16	0	394
Subtotal PHASE 6	\$2,940	\$2,580	\$4,440	\$5,940	\$0	\$1,920	\$7,040	\$9,600	\$5,280	\$0	\$0	\$0	\$0	\$0	\$0	\$810	\$2,000	\$6,400	\$1,200	\$0	\$50,150
With Multiplier	\$2,940	\$2,580	\$4,440	\$5,940	\$0	\$1,920	\$7,040	\$9,600	\$5,280	\$0	\$0	\$0	\$0	\$0	\$0	\$810	\$2,000	\$6,400	\$1,200	\$0	\$50,150
TASK 12 - Final Design and Construction Documents																					
Final Design and Construction Documents	8	12	10	36		64	80	16	24							6	16	64	16		336
Construction Documents (100%)	4		12			16			8												56
Cost Estimates																					0
Total Time	12	12	22	36	0	16	64	96	32	0	0	0	0	0	0	6	16	64	16	0	392
Subtotal PHASE 7	\$2,940	\$2,580	\$4,070	\$5,940	\$0	\$1,920	\$7,040	\$9,600	\$5,280	\$0	\$0	\$0	\$0	\$0	\$0	\$810	\$2,000	\$6,400	\$1,200	\$0	\$49,780
With Multiplier	\$2,940	\$2,580	\$4,070	\$5,940	\$0	\$1,920	\$7,040	\$9,600	\$5,280	\$0	\$0	\$0	\$0	\$0	\$0	\$810	\$2,000	\$6,400	\$1,200	\$0	\$49,780
TASK 13 - Permitting																					
Permitting - Conformance with General Permit	4		8			32	32	16													128
Meetings	2		8			16	16	8													42
Total Time	6		16			48	48	24													170
Subtotal PHASE 8	\$1,470	\$0	\$2,940	\$0	\$0	\$5,280	\$4,800	\$4,800	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$19,570
With Multiplier	\$1,470	\$0	\$2,940	\$0	\$0	\$5,280	\$4,800	\$4,800	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$19,570

Cost Proposal Breakdown

Elizabeth Kennedy Landscape Architect, PLLC

Project: Bulkhead Repair Project
 Prepared For: The Village of Port Chester
 Multiplier for this job: 1.00
 Total fee (from below): \$58,200

Prepared By:

Personnel Classification and Average Hourly Rates														
	Elizabeth J Kennedy, RLA, ASLA	Yifan Sun, Associate ASLA, LEED	TBD											
	Principal Landscape Architect	Assistant Landscape Architect/PM	Junior Designer/CADD	Sr. Eng. III/IV	Sr. Eng. I/II	Jr. Eng.	Chief CAD Operator	Senior CAD Operator	CAD Operator	Junior CAD Operator	Technical Designer Manager	Sr. Technical Designer	Technical Typist	TOTAL TIME & FEE
	\$200	\$75	\$60											
TASK 6 - Kick Off Meeting														
	4	4												8
														0
Total Time	4	4	0	0	0	0	0	0	0	0	0	0	0	8
Sub-total PHASE 1	\$800	\$300	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,100
With Multiplier	\$800	\$300	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,100
TASK 7 - Site Reconnaissance and Schematic Designs														
	4	120	40											164
														0
Total Time	4	120	40	0	0	0	0	0	0	0	0	0	0	164
Sub-total PHASE 2	\$800	\$9,000	\$2,400	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$12,200
With Multiplier	\$800	\$9,000	\$2,400	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$12,200
TASK 8 - Public Meeting														
	4	8	40											52
														0
Total Time	4	8	40	0	0	0	0	0	0	0	0	0	0	52
Sub-total PHASE 3	\$800	\$600	\$2,400	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,800
With Multiplier	\$800	\$600	\$2,400	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,800
TASK 9 - Construction Requirement Analysis														
	10	20												30
														0
Total Time	10	20	0	0	0	0	0	0	0	0	0	0	0	30
Sub-total PHASE 4	\$2,000	\$1,500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,500
With Multiplier	\$2,000	\$1,500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,500
TASK 10 - Environmental Quality Review														
	4	4												8
														0
Total Time	4	4	0	0	0	0	0	0	0	0	0	0	0	8
Sub-total PHASE 5	\$800	\$300	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,100
With Multiplier	\$800	\$300	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,100

TASK 11 - Draft Final Design														
	20	120	80											220
														0
Total Time	20	120	80	0	0	0	0	0	0	0	0	0	0	220
Sub-total PHASE 6	\$4,000	\$9,000	\$4,800	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$17,800
With Multiplier	\$4,000	\$9,000	\$4,800	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$17,800
TASK 12 - Final Design and Construction Documents														
	20	80	20											120
														0
Total Time	20	80	20	0	0	0	0	0	0	0	0	0	0	120
Sub-total PHASE 7	\$4,000	\$6,000	\$1,200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$11,200
With Multiplier	\$4,000	\$6,000	\$1,200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$11,200
TASK 13 - Permitting														
	10	40												50
														0
Total Time	10	40	0	0	0	0	0	0	0	0	0	0	0	50
Sub-total PHASE 8	\$2,000	\$3,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,000
With Multiplier	\$2,000	\$3,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,000
Percent Total Time	12%	61%	28%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	88%
Total Time	76	396	180	0	0	0	0	0	0	0	0	0	0	652 hours
TOTAL FEE:														\$55,700
OUT-OF-POCKET EXPENSES														
Presentation Graphics														\$500
Printing & Reprographics, NTE														\$1,500
Travel Expenses - Plant Materials Tagging , NTE														\$500
														\$0
														\$0
TOTAL EXPENSES														\$2,500
TOTAL FEE (with Multiplier and Expenses)														\$58,200

Cost Proposal Breakdown

Historical Perspectives, Inc.

Historical Perspectives, Inc.

Project: Bulkhead Repair Project
 Prepared For: The Village of Port Chester
 Multiplier for this job: 1.99
 Total fee (from below): \$3,634

	Personnel Classification and Average Hourly Rates							TOTAL TIME & FEE
	Project Executive	Quality Control Engineer	Project Manager	Cece Saunders, RPA	Julie Abell Horn, M.A., RPA	Barbara Magee		
				Sr. Eng. III/IV	Sr. Eng. I/II	Staff Eng. II/III	Technical Typist	
			\$51	\$22	\$20			
TASK 6 - Kick Off Meeting								
								0
								0
								0
								0
								0
								0
								0
Total Time	0	0	0	0	0	0	0	0
Sub-total PHASE 1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
With Multiplier	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TASK 7 - Site Reconnaissance and Schematic Designs								
Historic and Cultural Resources Reconnaissance Survey				16	40	4		60
								0
								0
								0
								0
Total Time	0	0	0	16	40	4	0	60
Sub-total PHASE 2	\$0	\$0	\$0	\$816	\$880	\$80	\$0	\$1,776
With Multiplier	\$0	\$0	\$0	\$1,624	\$1,751	\$159	\$0	\$3,534
TASK 8 - Public Meeting								
								0
								0
								0
								0
								0
Total Time	0	0	0	0	0	0	0	0
Sub-total PHASE 3	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
With Multiplier	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TASK 9 - Construction Requirement Analysis								
								0
								0
								0
								0
								0
Total Time	0	0	0	0	0	0	0	0
Sub-total PHASE 4	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
With Multiplier	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

Cost Proposal Breakdown

Setty & Associates, Ltd. PC

Setty

Date:

Project: Bulkhead Repair Project
 Prepared For: The Village of Port Chester
 Multiplier for this job: 2.32
 Total fee (from below): \$12,020

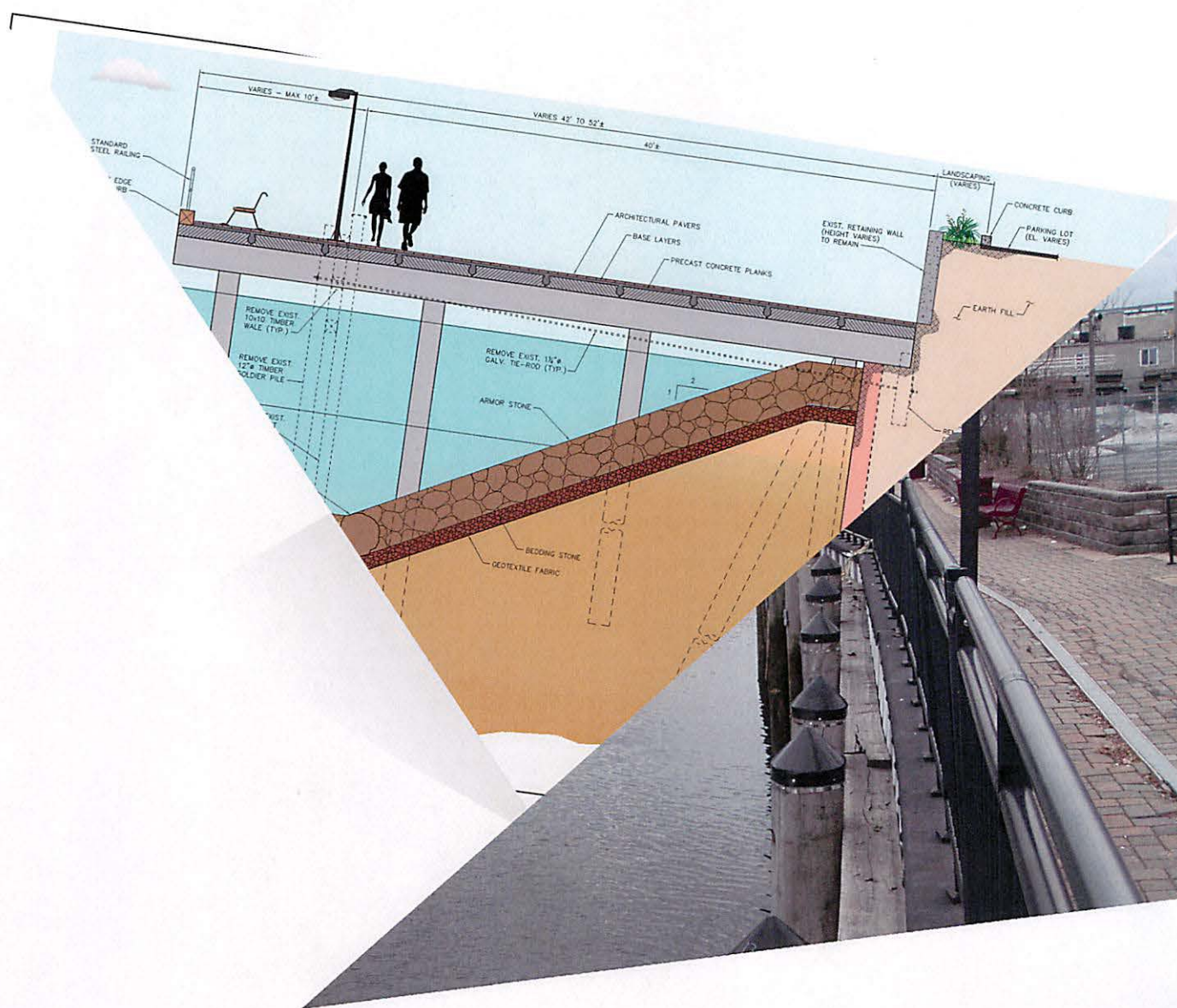
Prepared By:

Personnel Classification and Average Hourly Rates								
	Boggarm S. Setty, P.E., FASHRAE, FAGEE	Prashant Joshi	Conrad Dela Cruz, P.E.	Conrad Dela Cruz, PE	Varun Lamba	Ayman Tawadrous	Elissa Delfico	
	Project Executive	Quality Control Engineer	Project Manager	Sr. Electrical Engineer	Jr. Eng.	CAD Operator	Technical Typist	TOTAL TIME & FEE
	\$135	\$79	\$82	\$82	\$46	\$31	\$25	
TASK 6 - Kick Off Meeting								
Attend Meeting				2.00				2.00
								0.00
Total Time	0.00	0.00	0.00	2.00	0.00	0.00	0.00	2.00
Sub-total PHASE 1	\$0	\$0	\$0	\$164	\$0	\$0	\$0	\$164
With Multiplier	\$0	\$0	\$0	\$380	\$0	\$0	\$0	\$380
TASK 7 - Site Reconnaissance and Schematic Designs								
Background Drawings Set-up				0.50	0.50	4.00		5.00
Survey Visit				2.00	2.00			4.00
Utility Company info & coordination			0.50	1.00	1.00	1.00	0.50	4.00
Electrical Power & Area Lighting input in three schemes				1.50	1.50	6.00		9.00
Submit/present/describe basis of elec.design schematics		0.50	0.50	1.00	1.00	1.00	0.50	4.50
Total Time	0.00	0.50	1.00	6.00	6.00	12.00	1.00	26.50
Sub-total PHASE 2	\$0	\$40	\$82	\$492	\$276	\$375	\$25	\$1,290
With Multiplier	\$0	\$92	\$190	\$1,141	\$640	\$870	\$58	\$2,992
TASK 8 - Public Meeting								
Attend			2.00					2.00
								0.00
Total Time	0.00	0.00	2.00	0.00	0.00	0.00	0.00	2.00
Sub-total PHASE 3	\$0	\$0	\$164	\$0	\$0	\$0	\$0	\$164
With Multiplier	\$0	\$0	\$380	\$0	\$0	\$0	\$0	\$380
TASK 9 - Construction Requirement Analysis								
Survey visit investigation for selected scheme				1.00	2.00			3.00
Calculate/Lighting analysis for design				1.50	1.50			3.00
Coordinate w/ design team & Port Chester project team				1.00	1.00	1.00		3.00
Design analysis description, fixture cuts, location drawings				2.00	2.00	8.00	1.00	13.00
								0.00
Total Time	0.00	0.00	0.00	5.50	6.50	9.00	1.00	22.00
Sub-total PHASE 4	\$0	\$0	\$0	\$451	\$299	\$281	\$25	\$1,056
With Multiplier	\$0	\$0	\$0	\$1,046	\$694	\$653	\$58	\$2,451

TASK 10 - Environmental Quality Review								
								0.00
								0.00
Total Time	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-total PHASE 5	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
With Multiplier	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TASK 11 - Draft Final Design								
Drawings				0.50	1.00	16.00		17.50
Specs				1.00	1.00			2.00
Coordination w/ comments & project team				1.00	1.00	1.00		3.00
Prepare and submit set		1.00		0.50	1.00	0.50	0.50	3.50
								0.00
Total Time	0.00	1.00	0.00	3.00	4.00	17.50	0.50	26.00
Sub-total PHASE 6	\$0	\$79	\$0	\$246	\$184	\$547	\$13	\$1,068
With Multiplier	\$0	\$183	\$0	\$571	\$427	\$1,269	\$29	\$2,479
TASK 12 - Final Design and Construction Documents								
Drawings				0.50	1.00	16.00		17.50
Specs				1.00	1.00			2.00
Coordination w/ comments & project team				1.00	1.00	1.00		3.00
Prepare and submit set		1.00		0.50	1.00	0.50	0.50	3.50
								0.00
Total Time	0.00	1.00	0.00	3.00	4.00	17.50	0.50	26.00
Sub-total PHASE 7	\$0	\$79	\$0	\$246	\$184	\$547	\$13	\$1,068
With Multiplier	\$0	\$183	\$0	\$571	\$427	\$1,269	\$29	\$2,479
TASK 13 - Permitting								
Stamp drawings, pick up permit review comments			0.50	1.00		1.00		2.50
								0.00
Total Time	0.00	0.00	0.50	1.00	0.00	1.00	0.00	2.50
Sub-total PHASE 8	\$0	\$0	\$41	\$82	\$0	\$31	\$0	\$154
With Multiplier	\$0	\$0	\$95	\$190	\$0	\$73	\$0	\$358
Percent Total Time	0%	2%	3%	19%	19%	53%	3%	100%
Total Time	0	3	4	21	21	57	3	107 hours
TOTAL FEE:								\$11,518
OUT-OF-POCKET EXPENSES								
								\$0
Printing			10	x	6			\$60
Deliveries			40	x	6			\$240
Mileage	8	x	50	x	0.505			\$202
								\$0
								\$0
TOTAL EXPENSES								\$502
TOTAL FEE (with Multiplier and Expenses)								\$12,020

2015 MARCH 16
THE VILLAGE OF PORT CHESTER, NEW YORK

FULL DESIGN AND CONSTRUCTION PLANS FOR THE REPAIR OF THE COLLAPSED BULKHEAD SECTION ALONG BYRAM RIVER AND CONSTRUCTION OF "ACTIVITY NODE" PLUS APPLICABLE PERMIT WORK



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1. PROJECT UNDERSTANDING & APPROACH

Task 1 through Task 5 are not applicable to the solicited scope of work.

TASK 6, KICK OFF MEETING

The OCC team will begin the project with a collaborative kickoff meeting involving key personnel from the Village and other project stakeholders. The goals of this meeting will be to:

- › Review the team's technical approach to collectively discuss methodologies, issues, and design questions
- › Identify key factors that will impact the project; such as regulatory constraints, future site usage, and usage of adjacent properties
- › Discuss relevant documents available to the team possessed by the Village, including previous studies, reports, and inspections
- › Discuss and clarify the project's goals, deliverables and presentable results;
- › Discuss the team's Quality Assurance program;
- › Discuss the project schedule and milestone dates

Minutes of the meeting will be prepared and distributed to the Village and the project team for record. An updated project schedule will be prepared and distributed based on the discussion.

Deliverables: Meeting minutes

TASK 7, SITE RECONNAISSANCE AND SCHEMATIC DESIGNS

Subtask A: Site Reconnaissance

Upon completion of the Kickoff Meeting and approval of the proposed work plan, the project team will begin performing a detailed site investigation consisting of document research and field reconnaissance. The site investigation will include:

- › Review of available information provided by the Village;
- › Compile known online mapping sources for environmental conditions, including best known FEMA flood zone designation;
- › Topographic survey of the property, including the nearshore bathymetry;
- › Property boundary survey;
- › Utility location mapping;
- › Identification of transportation/circulation systems nearby;
- › Adjacent land and water use mapping;
- › Identification of historical and archeological resources;
- › Mapping of natural resources, including mature trees;

- › Identification of view corridors;
- › Existing infrastructure mapping including:
 - Pavement
 - Concrete curbs
 - Perimeter fencing
 - Wood utility poles
 - Storm drains & catch basins
 - Earth retaining structures
 - Exposed outfall terminuses
 - Shoreline structural remnants
 - Shoreline reinforcements, if present
- › Subsurface geotechnical investigation to establish the soil conditions within the bulkhead area including:
 - Explore the subsurface soil and groundwater conditions within the project area. A minimum of 3 land and 3 water borings will be taken along the length of the bulkhead;
 - Perform jet probes every 20 feet along the existing bulkhead line in order to determine the top of rock elevation. This will be performed via boat by a 3-person crew of engineers and technicians;
 - Estimate the geotechnical engineering properties of the encountered subsurface materials using standard penetration tests (SPT) and rock coring. The rock coring will provide essential information on the quality of rock (Rock Quality Designation, RQD);
 - Evaluate the design requirements discussed above and encountered subsurface conditions;
 - Prepare design recommendations and design parameters; and
 - Prepare recommendations for earthwork operations and related considerations consistent with the proposed improvements.
- › Above water site inspection to evaluate the existing site conditions. The inspection will be performed via land and boat by a 3-person engineering team led by the project engineer.

OCC will subcontract with Hydro Data, Inc., a woman-owned business enterprise (WBE), to perform the bathymetric survey of the Byram River. The bathymetric survey will be performed by an ACSM certified hydrographer. The crew will be equipped with a survey vessel, survey grade RTK GPS positioning system and an Innerspace Model "455" digital depth sounder. Water depths with an accuracy of ± 0.1 cm will be recorded.

OCC will also subcontract with Pereira Engineering, a minority-owned business enterprise (MBE), to perform land surveying and prepare the existing condition plan including location of utilities and other infrastructure. Pereira will also provide supplemental site/civil engineering services during the design phases related to grading, drainage and land-based infrastructure.

The information gathered in the site investigation task will inform the project team in developing an appropriate rehabilitation plan. Results of the geotechnical investigation will be presented in a formal written report which will include location drawing, detailed logs of the test borings, results of all laboratory tests, and specific conclusions and recommendations. All data will be reported on the New York State Plane Coordinate System of NAD 83 and vertically on NAVD 88.



Subtask B: Schematic Designs

The project team will begin developing an appropriate rehabilitation plan based on the site information gathered and the development goals outlined by the Village during the kickoff meeting. Three schematic designs will be produced and will each include:

- › Schematic site plan illustrating main project elements
- › Schematic cross-section(s) illustrating the bulkhead rehabilitation
- › Schematic cross-section(s) illustrating the activity node

The schematic designs will be accompanied by a brief narrative discussion of the alternatives. Elements such as environmental impacts, potential construction challenges, and relative costs between the alternatives will be discussed, however full cost estimates will not be developed for the early stage work in this task.

The schematic designs and accompanying narratives will be provided to the Village for comment and discussion. A review meeting will be scheduled between the Village and the project team to discuss the progress to date. The rehabilitation plan selected by the Village will be used in the preparation of the remaining tasks.

Deliverables: Existing condition plans, geotechnical report, schematic design plans and narratives (pdf format)

TASK 8, PUBLIC MEETING

In conjunction with the Village, OCC's project manager and project engineer will participate in one public meeting to present the three alternatives developed in Task 7. Presentation boards and/or powerpoint slides will be prepared to convey each schematic design and solicit feedback. OCC will prepare a written summary of the comments received during the meeting.

Scheduling, advertisement, venue reservation, and other meeting amenities are assumed to be provided by the Village.

Deliverables: Meeting minutes

TASK 9, CONSTRUCTION REQUIREMENT ANALYSIS

An overview of the existing federal, state, and local regulatory processes will be compiled and the selected schematic design will be assessed for permitability. OCC will identify the regulating agencies likely to be involved in the review, approval and permitting of the project and provide a summary of the likely permits, reviews and approvals that it is anticipated would be required for implementation. The agency review and permit matrix will be provided in tabular format and annotated addressing specific project elements.

OCC's project manager and project engineer will participate in one pre-permitting meeting with the relevant regulators to discuss the project.

Deliverables: Summary Memo and Meeting Minutes

TASK 10, ENVIRONMENTAL QUALITY REVIEW

OCC will prepare documents necessary to comply with the State Environmental Quality Review Act (SEQRA) through determination of significance. OCC's experience on similar bulkhead rehabilitation projects in the State of New York has been that it is unlikely that a positive declaration will be made. As such, a Draft Environmental Impact Statement is not included in the scope of work and would be considered as an additional service if it is determined to be necessary.

Deliverables: SEQRA documents

TASK 11, DRAFT FINAL DESIGN

The project team will perform required structural analyses and design and prepare a comprehensive set of drawings and technical specifications to illustrate and detail the requirements for the bulkhead rehabilitation and activity node and develop an Opinion of Probable Costs (OPC) for the rehabilitation.

Draft Final Design Drawings

A draft final drawing submission will be made at the 90% design stage for review and comment by the Village. Comments received will be addressed in a written response to the Village prior to finalization of the design. Necessary revisions will be included in the 100% Construction Documents.

Specifications

The project team will prepare a separate technical specifications document that defines the project standards for materials, workmanship, and testing. A draft final specifications submission will be made at the 90% design stage for review and comment by the Village. Comments received will be addressed in a written response to the Village prior to finalization of the design. Necessary revisions will be included in the 100% Construction Documents.

Cost Estimate

The project team will use our extensive knowledge of marine construction operations and costs to prepare an engineer's opinion of probable cost for the construction work presented in the drawing set. The estimate will include all work to be performed and broken out by discipline. Submission of OPC will be made at the 90% design stage for review and comment by the Village. Comments received will be addressed in a written response to the Village prior to finalization of the design. Necessary revisions will be included in the 100% Construction Documents.

Deliverables: 90% Plans, Technical Specifications and OPC (pdf format)

TASK 12, FINAL DESIGN AND CONSTRUCTION DOCUMENTS

OCC will incorporate any necessary revisions to the construction documents received during the Village's review in Task 11 into a final Construction Document package including plans, specifications and OPC. Final recommendations by the regulatory agencies will be incorporated into the final Construction Documents if they are available.

All project documents including calculations, drawings, specification, and cost estimates will be given a final thorough review for quality assurance in accordance with OCC's ISO 9001 certified Quality Management Plan. Construction drawings will be signed and sealed by a professional engineer registered in the state of New York.

An electronic copy of the final construction documents will be provided on portable media (CD). PDF and Microsoft Office formats will be provided for the documents. Three (3) hard copies of signed and sealed design calculations will be provided.

Deliverables: Plans, Technical Specifications, OPC and Calculation Package (electronic format, pdf and Word documents)

TASK 13, PERMITTING

Waterfront activities seaward of the high tide line, including repairs to or construction of bulkheads, are regulated at the State and Federal levels. OCC will prepare and submit permit applications to the U.S. Army Corps of Engineers (USACE), the New York State Department of Environmental Conservation (NYSDEC), and the New York State Department of State (NYSDOS) Division of Coastal Resources, and local regulatory authorities.

It is assumed that a stormwater pollution prevention plan (SWPPP) is not necessary for this project as the existing site drainage already includes best practices for stormwater management. Therefore, we have not included this in our scope and would consider it as additional services if it is necessary.

The comprehensive permit application package will be prepared which will include:

- › Permit application forms including: NYSDEC/USACE Joint Permit Application Form, USACE Environmental Quality Form, NYSDEC Environmental Assessment Form, and NYSDOS Coastal Consistency Assessment Form
- › Project Narrative to include description of the site, the proposed project, potential adverse effects to the environment, alternatives to the project, and the sequence of construction.
- › Location maps, charts, and aerial photos.
- › Drawings formatted to agency specifications depicting the existing site and proposed work
- › Current site photos.

Additional studies, such as an Essential Fish Habitat study or an Environmental Impact Statement, may be required as part of the application process. Should these studies be required, OCC can assist in the preparation of these studies as an additional service under a separately negotiated agreement.

Acting as agents on behalf of the Village, OCC will submit the permit application package to the State and Federal regulatory agencies. Permit application fees, or other fees incurred as part of the filing process, may be required by one or more agencies and shall be provided at the time of submission by the Village. At this time, the NYSDEC charges an application fee of \$900. The USACE does not charge an application fee.

During the review process, agencies may request additional information necessary for them to complete their compliance determination. As agents to the permit, OCC will serve as technical support for the administration of the permit process in the event the regulatory agencies request additional information. Follow-up items may include discussions with the regulators, additional project narratives, and/or drawing revisions. The cost associated with this proposal task includes two rounds of coordination/revisions with the USACE and the NYSDEC. Additional substantial revisions will be performed under a separately negotiated agreement.

The services described herein are intended to facilitate the preparation, submittal, and follow up services that are required for obtaining permits from all regulatory agencies. However, since the final decision to authorize activities rests solely with the regulatory agencies, there is no guarantee of success in obtaining permits simply by filing necessary applications and supporting materials. While we are confident in our ability to develop and procure the necessary permits based on our extensive regulatory experience, there may be changes in regulatory law, political climate, and/or numerous other factors beyond the control of the Village or OCC which may impede the process.

Deliverables: Permit Applications and supporting documents (pdf format)

ADDITIONAL SERVICES

TASK 14, BID ASSISTANCE

OCC will assist the Village as required during the bid process to include: conduct an on-site pre-bid meeting to review the scope of work with the prospective construction bidders; review requests for information/clarification submitted by the bidders during the specified period with the bid phase; and assist the Village in preparation of any necessary bid addenda. OCC will review bids and make recommendation of award.

Deliverables: Meeting minutes, addenda (as needed), bid summary and recommendation

TASK 15A, LIMITED CONSTRUCTION PHASE SERVICES

It is assumed that the Village will, internally or through an appointed representative, provide construction management for the project. Therefore, the costs included in our proposal assume the following limited scope of work:

Review of Contractor Submittals, RFIs, and Questions

As the Engineer of Record, OCC can review and respond to all trade relevant Contractor submittals required by the Construction Documents. In addition, OCC can review and respond to trade relevant Contractor RFIs that are transmitted through the Village's Representative.

Quality Assurance Site Visits

The project team will provide part-time site support services, limited to 12 site visits during construction, to verify the quality of the work and contractor progress. Attendance at progress meetings, when deemed necessary, should be coordinated when the project team is on site and will be intended for discussion of project issues related to progress and potential design revisions.

Design Revisions and Additions

It is our experience through years of work on the New York waterfront, that revisions to the existing design may be required due to changing conditions, and/or unknown conditions. In response to findings of the Contractor and the Village's Representative, the project team can develop sketches to offer additional clarifications of the design intent to facilitate project completion. Design re-evaluation and provision of alternate designs are not included and can be performed under separate agreement.

As the end of construction approaches, the project team will prepare a final punchlist of items necessary for the contractor to reach final completion.

Deliverables: Submittal reviews, RFIs, Field Reports

TASK 15B, FULL-TIME RESIDENT ENGINEERING

Under this task, OCC will provide full-time construction review of the work. We will provide an Engineer II level staff on-site with part time review by the Project Manager and Construction Engineer. The assumed construction duration is 5 months in the field (100 work days) with 6 weeks (30 work days) for mobilization and 4 weeks (20 work days) for closeout document preparation.

During construction, OCC will:

- › Provide Submittal and RFI review;
- › Prepare daily field reports (submitted to the Village weekly);
- › Administer bi-weekly project meetings on-site (meeting minutes sent within 72 hours);
- › Witness and review contractor field activities to monitor conformance with contract documents;
- › Document conditions of existing bulkhead during demolition;
- › Take daily site digital photographs;
- › Perform punchlist inspection (including underwater inspection); and,
- › Prepare summary closeout documents.

Deliverables: Submittals reviews, RFIs, Field Reports, Close-out Documents and Record Drawings

2. SCHEDULE

Our Team recognizes the importance of working closely with our clients, helping to establish and fully understand the specific needs and timing of projects. We know from experience that the key to successful project execution is having a clear understanding of the root causes of potential delays, and implementing proactive strategies to mitigate their effects when possible. All of the OCC Team members have sufficient capacity in their current and projected workloads to provide the necessary level of service for the Village.

Each member ensures that other project commitments are manageable and that adequate and timely attention to the project will be assured.

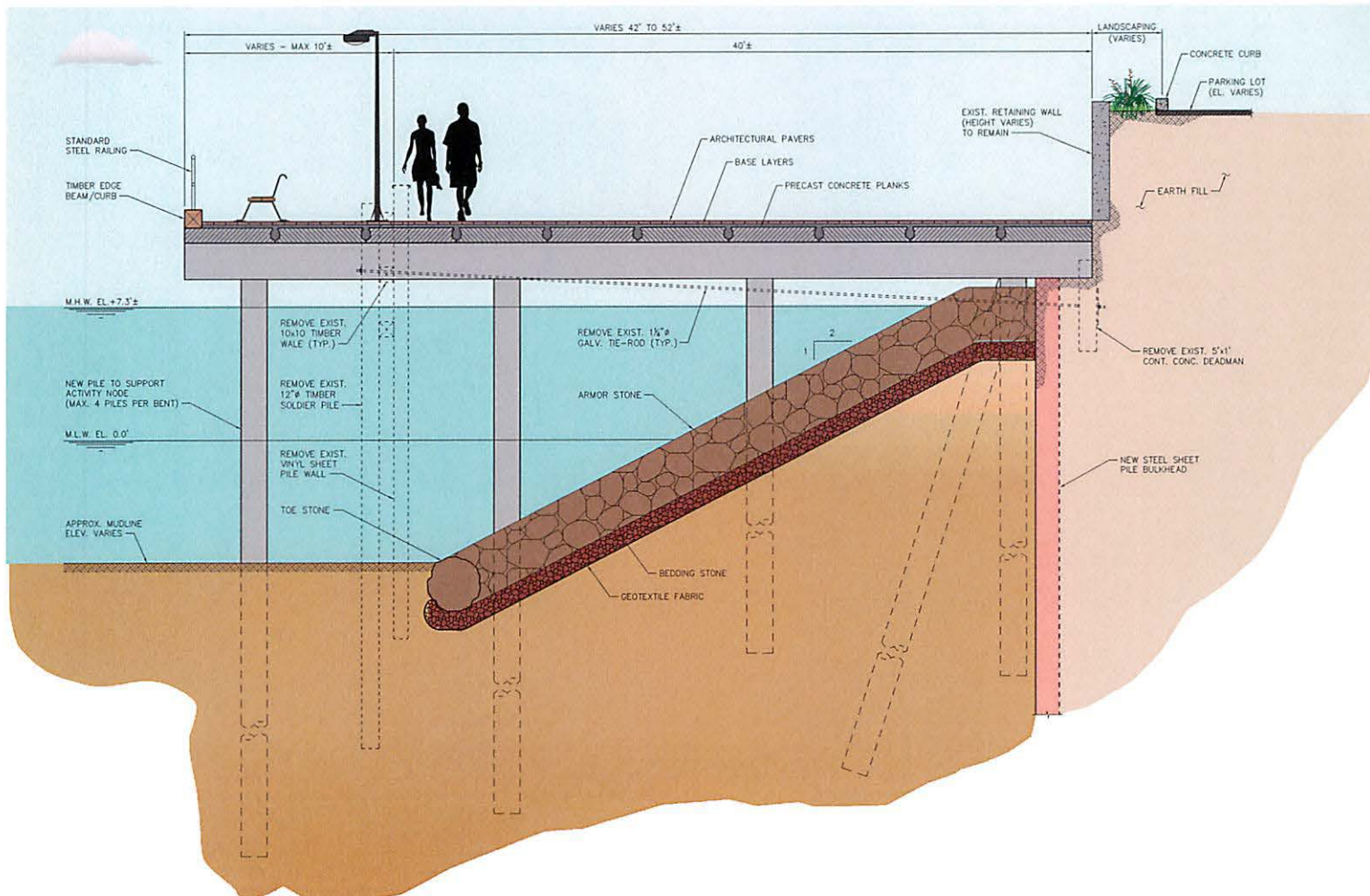
We have included a detailed schedule in this section for your review.



3. FIRM QUALIFICATIONS & RELEVANT EXPERIENCE

Ocean and Coastal Consultants Engineering, P.C. (OCC) is an 86 person consulting engineering firm, with a rich history of providing specialized Coastal, Marine and related Engineering professional services within Long Island Sound, its tributaries including the Byram River, New York Harbor and around the world. Since founded in 1983, OCC has provided professional waterfront engineering services to multiple private and public entities including the US Army Corp of Engineers, US Coast Guard, FEMA, the City of New York, and other municipalities. OCC's dedication to clients and commitment to quality is personified in an extensive Quality Management System program, certified to ISO 9001:2008 standards, that ensures the highest quality work product delivers exceptional customer service.

In 2007, OCC became part of the COWI Group, an internationally renowned consulting company based in Denmark which provides worldwide expertise in engineering, economics and environment. In 2008, COWI was ranked the number 1 international design firm in marine and port facilities by the Engineering News Record (ENR). OCC's association with COWI allows us to provide a local presence and world-class coastal engineering expertise. OCC won the COPRI



Project Excellence Award for a beach restoration project completed in 2010 on Eustatia Island in the British Virgin Islands that successfully weathered a direct hit from Hurricane Earl. OCC was also an emergency responder to New York City Economic Development Corp immediately following super storm Sandy coastal events.

OCC's offices are strategically located to service ports and harbors, coastal communities and maritime enterprises in the New England, Mid-Atlantic and Southeast regions, including offices in Connecticut and Manhattan, both convenient to the Village of Port Chester. Our local team has extensive knowledge in the unique challenges and opportunities in this area and has a great deal of experience working within the Byram River, including previous inspection and concept development specifically at this site for the Village as well as bulkhead and marina design, permitting and construction phase services for the site located across the river at 88 South Water Street in Greenwich.

OCC employs a wide variety of professional staff capable of providing unique expertise for solving complex problems in the coastal and offshore environments. Nearly 2/3 of OCC employees have engineering degrees; of those more than half are registered Professional Engineers. In addition, OCC employs twenty (20) engineer-divers, ten (10) of which are Professional Engineers. The professional staff at OCC develop designs for the rehabilitation of existing waterfront infrastructure as well as designs for new coastal and marine structures, dredging projects, beach nourishment and erosion control projects and marina and recreational waterfront facilities. The unique combination of individuals who are both professionally licensed coastal, structural and geotechnical engineers and commercially certified divers provide OCC clients with a wide variety of expert consulting services. Along with inspection, design and construction support services, OCC's experience with Federal, state and local regulatory permitting provides a complete package for the Village of Port Chester.

PLANNING AND DESIGN SERVICES

Marine Structures are cornerstones of the nation's security and economy and these structures are often composed of multiple infrastructures systems. As such, the requirements of planning or designing the construction or upgrade of a marine structure requires an understanding of often complex and demanding structural and operational elements. Our approach evaluates the full life-cycle of a facility from concept to decommissioning, delivering cost-effective solutions that consider the entire facility and owner goals. OCC engineers with specialized training in the inspection, design, repair, and construction of marine structures including geotechnical foundation design understand the significant wind and wave forces on marine and port structures and the effect of the marine environment on timber, steel, and concrete components. The structural and geotechnical engineers are responsible for performing the structural analysis and design of a project, and working closely with the drafting, construction and environmental staff to prepare construction documents and technical specifications that meet all goals of the project.

INSPECTION, MAINTENANCE AND REHABILITATION

Consistent and effective inspection and maintenance programs extend the useful life of marine structures. OCC offers professional inspection and evaluation services performed by marine engineers. These same engineers work with our clients and develop rehabilitation and repair options integrated with the overall facility and owner program. Our input and assistance avoids costly shutdowns, and optimizes financial investment.

ENVIRONMENTAL AND REGULATORY SUPPORT

OCC's regulatory specialists, utilizing the knowledge, experience, and professional relationships built through decades in the industry; streamline the regulatory/permitting process by working closely with owners, our designers, and the regulatory agencies for positive project outcomes. From project initiation, our team of specialists will perform the tasks required to successfully obtain federal, state, and local permits for projects that include dredging/filling or construction along U.S. coast and waterways including: site and habitat survey and evaluation, preparation of required permit applications, coordination between owner and agencies, public forum representation, and the design and negotiation of mitigation plans.

Along with the inspection, design and construction support services, OCC has extensive experience with marine permitting at the Federal, state and local levels. Within the past 10 years alone, OCC has filed over 100 permit applications for waterfront projects located in Westchester County as well as New York Harbor and Hudson River regions and under the jurisdiction of the U.S. Army Corps of Engineers and New York State Department of Environmental Conservation. OCC has a 100% success rate either initially or with minor modifications that still met our Client's objectives. OCC's experience with permitting will provide a complete package for the Village of Port Chester because our design concepts take into account the applicable regulations and will incorporate into the design, components that help enhance the in-water habitat that may make the proposals more pleasing to the agencies.

Our in-house regulatory experts, led by **Mr. Michael Ludwig, Manager of Regulatory Services and Senior Biologist** and **Ms. Azure Dee Sleicher, P.E.**, work closely with the agencies to prepare an application that meets the owner's needs and also complies with regulatory guidelines. Mr. Ludwig brings over forty years of experience integrating resource protection into coastal and offshore development projects. Prior to OCC, he spent the majority of his career working for the Federal government as the Field Coordinator for Regulatory Affairs in Connecticut, New York and Rhode Island. Under this authority, Mr. Ludwig has had key roles in the development and refinement of most of the current rules and regulations that regulate development in the waters of the United States. Ms. Sleicher has over 14 years of experience working with NYSDEC combining expertise in coastal engineering, coastal processes and design of waterfront structures with her background in environmental engineering to design projects that are not only appropriate for the marine environment that they are located in, but with attention to minimizing impacts to natural resources consistent with the goals of the NYSDEC.

CONSTRUCTION SUPPORT SERVICES

At OCC, our many years of experience in the design of marine structures and inspection of marine construction, provides an excellent foundation to develop understanding of construction techniques and constraints, and of the important role of quality assurance in the construction of marine structures. Our professional team of construction specialists comprises of engineers, inspectors, and ACI concrete technicians who can handle all components of a complete construction support system and understand the complex relationship between owner, construction manager, engineer, and contractor; we work closely with all parties to attempt to prevent problems from arising and to solve those issues that inevitably occur. Our services include: procurement and bid support services; submittal and RFI review, Resident Engineering; erection engineering; design review and revision; and project close-out services. In addition, OCC's construction specialists are able to draw upon their vast industry experience to develop opinion of probable costs (OPCs) for construction. Not only do the OPCs include estimates for materials, labor and equipment based on quantity take-offs from the design plans but also take into account

the variables of working on the shoreline. These include proper scheduling of tasks that are tidal dependent and work that must be performed underwater. OCC takes pride in our estimating accuracy and has provided a list of completed projects with our original OPC, low bid and final construction costs below.

Estimating Accuracy

Project Name	Location	Bulkhead Length	Year Constructed	OPC Amount	Bid Amount	Final Construction
Croton Yacht Club Bulkhead	Croton-on-Hudson, NY	400	2014	\$2,963,000.00	\$2,499,887.00	\$2,613,506.22
Coffee Street Bulkhead (ATF)	Brooklyn, NY	415	2006	\$2,850,000.00	\$2,750,000.00	\$2,775,400.00
Steel Point Bulkhead	Bridgeport, CT	1600	2004	\$5,950,000.00	\$4,545,104.00	\$5,283,708.85
Center Point Terminal Barge Berth	Newark, NJ	NA	2010	\$4,315,200.00	\$4,235,923.00	\$4,296,163.00
English Station Bulkhead Replacement Phase 3	New Haven, CT	1200	2003	\$5,660,000.00	\$4,364,300.00	\$4,707,537.54
Milford South Street Retaining Wall	Milford, CT	40	2014	\$133,000.00	\$98,116.00	\$107,544.40

OCC brings an unparalleled combination of Coastal, Structural and Environmental Engineering experience, along with our knowledge of the Long Island Sound and Byram River environment. Through our singular focus on projects in the marine environment, OCC can effectively deliver successful, innovative, and resilient engineering solutions to our clients. The shoreline is a continually changing, dynamic environment shaped by wind, waves, and currents. Coastal marine structures must provide protection against forces related to typical and storm-related wind and wave actions. OCC's team of experienced coastal and structural engineers have an understanding of the marine environment developed over thirty years of practice. This understanding allows us to design solutions that work in tandem with nature -- not against it. The results are resilient and cost-effective designs which reduce environmental impacts while providing long-term performance.

To fulfill the Minority and Women-Owned Business Enterprises (MWBE) participation goals of this project, OCC has secured **Pereira Engineering** (MBE) and **Hydro Data** (WBE) to provide value-added services required to execute this project. Pereira Engineering is an established site/civil engineering and land surveying firm located in Shelton, CT with extensive experience and MBE certification in Westchester County. Pereira Engineering, led by Principle Joseph Pereira, PE, will perform site reconnaissance including topographic survey and preparation of existing site plans as well as provide design assistance at the schematic and final design phases related to site work, grading, storm water management and other infrastructure.

Hydro Data, Inc. is a marine site survey organization dedicated to providing hydrographic, oceanographic and geophysical data acquisition and data presentation services. Hydro Data, Inc. provides support to private, commercial and government clients offering services for dredging projects, underwater construction and water quality monitoring. Hydro Data is a Women-Owned Business led by Nancy Byrne and will perform hydrographic survey and jet probing services identified in the Site Reconnaissance task.

VILLAGE OF CROTON-ON-HUDSON, NEW YORK

CROTON YACHT CLUB

BULKHEAD REPLACEMENT



The Croton Yacht Club, established in 1957, owns and operates a 125 slip marina on properties leased from the Village of Croton. An existing steel bulkhead, approximately 500 feet in length, surrounds three sides of the property. Approximately 400 feet of the sheeting and anchoring system is severely corroded & is reaching the point of failure.

OCC's scope of work consisted of a Documentation Phase to prepare an existing condition plan. OCC performed an above water inspection of the facility superstructures and limited topographic survey. OCC contracted with a licensed hydrographer to prepare a bathymetric survey. OCC performed a wind and wave analysis to determine the appropriate environmental loads to be applied to the bulkhead. OCC also prepared and coordinated a soil boring program. Lastly, as part of this task, OCC performed a stray current analysis to determine if stray currents from the nearby Metro-North railroad are impacting the bulkhead. The results of the testing found that the site is subject to both dynamic and static stray current activity and that accelerated corrosion will occur if it is not mitigated by design and/or active protection of the new facilities.

In the analysis phase, OCC developed two (2) alternate design concepts for replacement of the bulkhead. The concepts consisted of steel sheet pile bulkhead overshooting with 1) ground anchors, and 2) a traditional deadman anchor system. An impressed current cathodic protection system was recommended to mitigate the stray currents. A riprap revetment was considered but rejected due to site constraints. Additionally, a cantilevered bulkhead was evaluated but determined not feasible due to soil conditions.

OCC prepared a Design Protocol Report that outlined the design criteria for the project along with the conceptual designs, constructability discussion for the proposed work, estimates of services life, and an Opinion of Probable Cost (OPC) for each concept.

After the Client selection the overshooting with ground anchor option, OCC prepared and submitted permit applications to the USACE, NYSDEC, and NYSDOS. OCC also prepared final design and contract documents for construction upon issuance of the permits. OCC provided resident engineering services during construction.

FACTS

- Client: Village of Croton-on-Hudson
- Reference: Marco Gennarelli, Superintendent of Public Works, 1 Van Wyck Street, Croton-on-Hudson, NY, 10520, 914.271.3775
- Engineering Cost: \$38,000
- Year of Completion: 2014
- Project Role: Prime Consultant
- Permits/Agency: NYSDEC, USACE, NYDOS

KILL VAN KULL, STATEN ISLAND, NEW YORK AND BAYONNE, NEW JERSEY

IMTT PIER 1 BULKHEAD REHABILITATION



FACTS

- Client: IMTT
- Reference: Jim Osman, 250 E. 22nd Street, Bayonne, NJ, 07002, 201.858.6871
- Engineering Cost: \$150,000
- Construction Cost: \$1.75 million
- Year of Completion: 2011
- Project Role: Prime Consultant
- Permits/Agency: US Army Corps of Engineers (USACE), NJ Dept of Environmental Protection (NJDEP)

OCC conducted a complete site survey of approximately 540 linear feet of bulkhead to be rehabilitated at Pier 1, one of IMTT-Bayonne's largest and most frequently used Pier's for the transshipment of petrochemicals. The existing bulkhead in the vicinity of the Pier was comprised of failing timber cribbing, a timber sheet and soldier pile wall with a failing shotcrete face.

Due to various loading conditions upland of the existing bulkhead, constructability interferences with existing infrastructure and the Clients' need to keep Pier 1 operational during construction, the final design was comprised of 295 linear feet of cantilevered steel sheet pile bulkhead (Phases I & III), 110 linear feet of anchored steel sheet pile bulkhead coupled with a reinforced concrete deadman system (Phase III) and 135 linear feet of an innovative king/batter pipe pile and wale concept (Phase II).

OCC developed this innovative construction detail to stabilize approximately 70 linear feet of bulkhead beneath Pier 1 that could not be conventionally over sheeted with steel sheet piles due to pipeline interference and clearance issues. This detail is comprised of a 24" diameter steel king pile, an 18" diameter steel batter pile, a robust moment connection and several stiff W18 wales needed to resist the enormous load from 70 unbraced linear feet of concrete backfill.

Constructability was the main priority for this phase of the rehabilitation. The moment connection was prefabricated using pipe sections that were a little larger than the piles being installed. Chairs for the wale connections were also pre-installed onto the moment connection. The king pile was driven first, and then the moment connection was slid over and welded to the top of the king pile. The hollow sleeve for the batter pile could now be used as a pile driving guide to help maintain the 4:1 slope needed to keep the batter pile out of the dredged berth. The 70-foot long W18x143 wales were then snaked between the face of the existing timber crib and the king piles, with clearance as minimal as four (4) feet in some areas. Divers then installed corrugated decking behind the wales and begin backfilling with concrete. To help control deflection of the W18 wales during backfilling, the concrete was installed in three (3) lifts over three (3) days.

TUCKAHOE, NEW YORK

USACE - NY DISTRICT SECT 14 STREAMBANK PROTECTION PROJECT



As a subcontractor to Earthworks, OCC developed detailed plans and specifications for the stabilization of approximately 240 linear feet of Bronx River shoreline along Yonkers Avenue in Tuckahoe, NY. This section of roadway contains vital infrastructure and utilities, and is the only emergency access route between the City of Yonkers and the Village of Tuckahoe. The east side of this busy street is supported by a dry-stacked stone retaining wall located along a 90-degree bend in the Bronx River. Due to the sharp bend, the existing stone wall was continually being undermined by high stream velocities during floods within the Bronx River.

The close proximity of the roadway, as well as the presence of rock ledge on the site required OCC to develop a combination of design elements to stabilize the stream bank and roadway. The final design consisted of a new reinforced concrete retaining wall with rock reinforcement bolts, a steel sheet pile/king pile combination wall, and a steel sheet pile bulkhead for scour protection.

In accordance with the Corps requirements, OCC provided a detailed design report at the 60% and 90% design stages. OCC also assisted the Corps with obtaining the required Stream Encroachment Permit from the NYSDEC as well as preparing a soil erosion and sediment control plan for the Westchester Soil Conservation District. Technical specifications for this project were prepared using SPECSINTACT software. Quantity Take-Offs and Construction Cost Estimates were developed with the MCACES software.

FACTS

- Client: United States Army Corps of Engineers
- Reference: Ms. Elena Manno, 917.790.8371
- Engineering Cost: \$150,000
- Construction Cost: \$1.8 million
- Year of Completion: 2010
- Project Role: Structural Engineer
- Permits/Agency: NYSDEC

BROOKLYN, NEW YORK, NEW YORK

SOUTH BROOKLYN MARINE TERMINAL BULKHEAD REHABILITATION



FACTS

- Client: New York City Economic Development Corp.
- Reference: Daniel Zarrilli, P.E., 110 William St., Brooklyn, NY, 11230, 212.312.3774
- Engineering Cost: \$400,000
- Construction Cost: \$14.1 million
- Year of Completion: 2011
- Project Role: Prime Consultant
- Permits/Agency: NYCDEC, USACOE, NYDOS, NYC Planning & NYC DSBS Waterfront Permits

OCC performed inspection, design, permitting, and follow-up consulting services during construction for the rehabilitation of the South Brooklyn Marine Terminal in Brooklyn, New York. The rehabilitation effort was undertaken in order to restore a vital waterfront industrial site for possible use as an automobile delivery, storage, and transfer facility with accessibility by water, rail, and roadway. The project budget for OCC's portion of the rehabilitation was approximately \$14.3 million.

OCC's design tasks for the site included the rehabilitation of approximately 1200 linear feet of existing steel sheet pile bulkhead and two separate steel cellular bulkhead structures. Due to the poor condition of the existing steel sheets, OCC specified a new steel sheet pile bulkhead driven immediately offshore

of the existing bulkhead. Design of the new bulkhead's tie-back system utilized new tie-rods connected to existing steel and concrete anchorage structures. Onsite mitigation for the over sheeting was made available through the specification of a partial removal of an existing deteriorated crib structure and replacement with a rip rap revetment.

A pneumatic fender system was designed for the offshore berth to accommodate a 4700 gross tonnage.

Roll On Roll Off "RORO" vessel. OCC determined that service life of the cell structures would be prolonged most effectively by the installation of a new sacrificial anode system. OCC also provided design and resident engineering services for the emergency stabilization of a failed portion of the bulkhead.

On site construction began in the fall of 2009 and is projected to continue through the end of 2010. OCC's follow on services include the review of select contractor submittals and an advisory role for the project's construction management company.

STEEL POINT STATION, BRIDGEPORT HARBOR, CONNECTICUT

REHABILITATION OF WATERFRONT STRUCTURES



FACTS

- Client: The United Illuminating Company
- Reference: Ronald A. Blaskey, Project Manager, 157 Church Street, New Haven, CT, 06510, 203.362.1408
- Engineering Cost: \$500,000
- Construction Cost: \$3.5 Million
- Construction Date: June 2006
- Project Role: Prime Consultant
- Permits/Agency: State of CT Dept of Environment Protection Office of

Ocean and Coastal Consultants (OCC) was retained to perform a detailed structural inspection of the Steel Point property located along Bridgeport Harbor, CT.

The inspection involved approximately 1600 linear feet of waterfront structures consisting of steel sheet pile bulkheads, pile-supported concrete piers, intake and discharge structures, and high tension power line foundations. The work included historical research of the site and upland exploratory excavation to investigate existing foundations and tie back systems.

The work also included above and below water inspections of the following: steel pile-supported concrete Coal Unloading Wharf (700 linear feet), submerged rip rap bank under the wharf, and deteriorated steel sheet pile bulkheads. OCC designed remedial repairs and developed an opinion of probable cost for these repairs.

OCC prepared complete permit applications to the Federal and State regulatory agencies for the entire parcel. Permits were obtained for retaining and maintaining the wharf, bulkheads, and intake structures. OCC prepared Contract Documents for the demolition of the existing wharf and construction of a new marine grade steel bulkhead with ground anchor supports.

Ocean and Coastal Consultant also assisted the owner throughout the bid selection process, as well as provided full-time resident engineering / construction administration services (not at risk) during construction.

POUGHKEEPSIE, NEW YORK

WATERFRONT BULKHEAD AND REVTMENT DESIGN



FACTS

- Client: City of Poughkeepsie
- Reference: Richard DuPilka, 845.451.4074
- Engineering Cost: \$250,000
- Construction Cost: \$10,500,000
- Construction Date: 2010
- Project Role: Sub Consultant
- Permits/Agency: US Army Corps of Engineers, NYS Department of Environmental Conservation Department of State

The project consisted of evaluation and design of shoreline stabilization of two (2) contiguous properties fronting the Hudson River. Ocean and Coastal Consultants (OCC) documented the condition of the shoreline and designed various schemes based on the site conditions and project requirements.

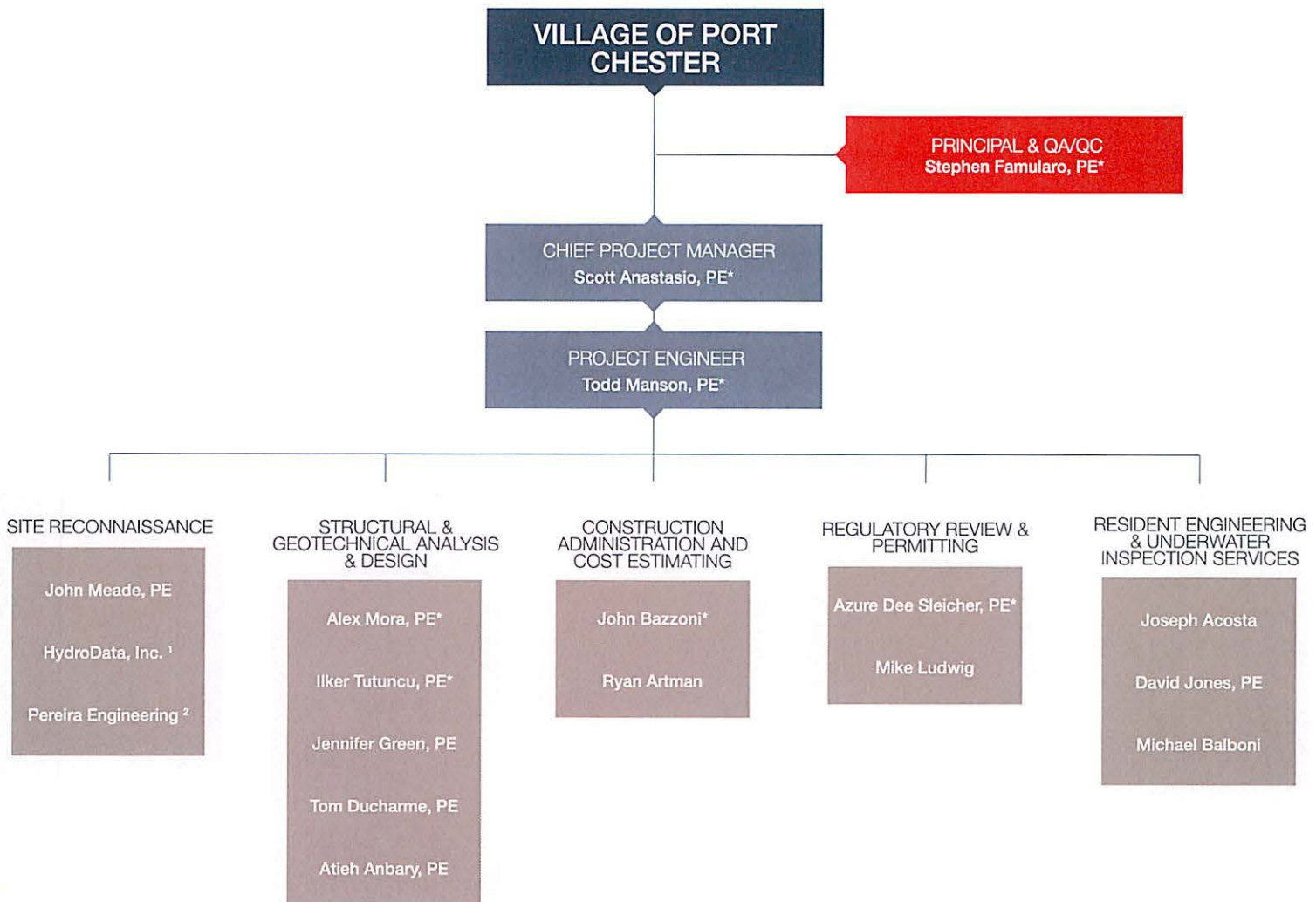
OCC performed a landside site survey to document the onsite existing waterfront structures including topography, review and documentation of the condition of the waterfront structures, and a hydrographic survey of the immediate area fronting the structures. Along the approximately 3,000 linear feet of shoreline, the structures varied in type and condition. The types of waterfront structures along this shoreline include deteriorated timber bulkheads; collapsed earth-filled relieving platform structures, and other failed shoreline stabilization structures.

OCC developed several designs to stabilize the shoreline depending on the type of existing structure to be replaced, the water depths, and other use criteria dictated by the Owner. Portions of the upland of the site were to undergo environmental remediation which required installation of approximately 1,150 linear feet of steel sheet pile bulkhead along the shoreline to prevent future migration of residual contaminants into the waters of the Hudson River. Where a solid barrier was not required for remedial purposes, OCC designed approximately 1,900 linear feet of riprap revetment to stabilize the shoreline.

Working closely with the Owner and regulatory agencies, OCC prepared regulatory permit applications. OCC also prepared final design and contract documents and assisted the Owner during the bid process.

OCC performed full-time Resident Engineering services during the construction of the shoreline structures.

project team organization



* - RESUME INCLUDED
1 - WBE FIRM
2 - MBE FIRM

OUR SPECIFIC KNOWLEDGE OF THE PROJECT SITE AND EXTENSIVE WATERFRONT INSPECTION AND STRUCTURAL ENGINEERING EXPERIENCE IS THE STRENGTH BEHIND OUR TEAM.

Stephen Famularo

PE, D.PE

PRINCIPAL & QA/QC

Ocean and Coastal
Consultants  COWI

Education

M.Sc., Coastal Engineering, University
of California at Berkley, 1996

B.Sc., Civil Engineering, Manhattan
College, 1995

Professional Registrations

Professional Engineer
NY, CT, NJ and CA

Professional Associations

American Society of Civil Engineers

Coasts, Oceans, Ports and Rivers
Institute (COPRI)

Training

Kirby Morgan Dive Systems, Inc. -
Helmet and Band Mask Operator/User
Training, 2007

OSHA Confined Space Safety Entrant
and Attendant Program (29CFR1910.1)

TWIC Card

Mr. Famularo is a Project Principal with over eighteen years experience in waterfront development and rehabilitation projects. This experience includes structural inspection, designing, providing resident engineering services, developing and implementing inspection databases, or Geographic Information Systems (GIS), and wave transformation analysis. He is also a trained commercial diver in surface-supplied air diving. He has conducted numerous above and underwater investigations of marine facilities throughout the Eastern United States and the Caribbean. He also has extensive experience in recognizing biological, chemical and mechanical deterioration in timber, concrete and steel elements.

Mr. Famularo has prepared inspection reports for the NYC Economic Development Corporation (NYCEDC), Port Authority of New York and New Jersey, and various oil companies and transshipment terminals such as International-Matex Tank Terminals, Valero, Hess, and ExxonMobil. In preparing these reports, Mr. Famularo performs calculations of existing and future structural capacities, recommends durable and cost effective rehabilitation measures, and prepares opinions of probable cost.

Mr. Famularo has developed and administers OCC's diver training program. This program provides instruction in safe diving practices and underwater inspection and assessment. He is actively involved developing a national diving training standard for engineer-divers through the American Society of Civil Engineers and the Association of Diving Contractors International.

PROJECT EXPERIENCE

Governors Island Ferry Terminal, Piers 13 and 14, and Pier 16 in New York City - Project manager and lead diver on all phases of the rehabilitation of waterfront structures. He performed initial above and underwater assessments, prepared permits for city, state and local agencies, prepared repair design drawings and specifications, and provided resident engineering services. This work consisted of timber wale and cap strengthening and replacement, timber pile encasement with concrete and grout, and steel HP-section pile encasement.

South Brooklyn Marine Terminal Bulkhead Rehabilitation - Performed an underwater investigation to develop design criteria. Approximately 1140 ft of steel sheet pile bulkhead, 190 ft of riprap revetment, and cathodic protection for the steel sheet pile required rehabilitation. About 525 ft of shoreline was demolished or repaired. EDC 2010 Waterfront Inspections - Performed a routine investigation of NYCEDC owned waterfront properties in accordance with NYCEDC Inspection Guidelines Manual.

Sheepshead Bay Bulkhead Inspection - Responded to a structural failure to provide an immediate analysis of existing conditions. Immediate repairs to the waterfront facility were prepared upon the completion of underwater and above water inspections and structural analysis.

ATF Bulkhead Design - Rehabilitated a severely deteriorated steel pile bulkhead. After establishing the current MHW line, new bulkheads were aligned to not result in a net fill volume or more mitigation. Soil boring and test pit prograbulkheadms were utilized for locating subsurface debris, buried timber cribbing structures, and aiding pile designs.

EDC, BAT Pier 1 & GIS - Inspected a deteriorated timber pile supported concrete pier, timber bulkhead, revetment, and timber crib wall to develop a comprehensive plan for rehabilitation. Underwater and above water investigations were conducted. Designs for a replacement pier, steel sheet pile bulkhead, and revetment were created. Permits for emergency and permanent construction work were procured. Resident engineering services were provided.

Scott R. Anastasio

PE

CHIEF PROJECT MANAGER

Ocean and Coastal
Consultants  |  COWI

Education

B.Sc., Ocean Engineering, University of Rhode Island, 1996

Professional Registrations

Professional Engineer (NY and CT)

Training

NCEES

OSHA Confined Space Safety Entrant, Attendant, Supervisor (29 CFR 1910.146)

OSHA 10 Hour Construction

OSHA HAZWOPER 40-hr. Training (29 CFR 1910.120)

Surface Supplied Diving Operations/2002/Florida State University

Dan O2 Oxygen Provider/Advanced Oxygen Provider/On-Site Neurological Assessment Provider

Kirby Morgan Dive Systems, Inc. – Helmet and Band Mask Operator/User Training/2013

CPR/AED/First Aid/Bloodborne Pathogens Training

TWIC Card

Mr. Anastasio has over 17 years of practical experience with dredging, site investigations, permitting, contract document preparation, and marine construction. Typical project related duties include data collection and analysis, report generation, development of design drawings and specifications, regulatory compliance, quality assurance, direct client interaction, resident engineering during construction and project administration. Mr. Anastasio is actively involved in data collection for site characterization and structural assessment including above water and underwater inspections as well as topographic and hydrographic surveying. Above and underwater inspections involve investigating current conditions, report writing, repair design and specifications, and repair cost estimates. Mr. Anastasio has performed numerous waterfront investigations for multiple residential, municipal, and commercial clients. As Resident Project Representative (RPR), he has been involved with all phases of project administration, design, and construction. A few of his responsibilities during various phases of project completion have been planning and development, permit preparation, generating specifications and designs, constructability reviews, bid assistance, and construction administration including review of RFIs, Change Orders, Payment Applications and Construction Schedules. Typical projects have involved structure demolition, underwater pile encasement, pile posting repair, pile driving, galvanic corrosion protection, seawall maintenance repair, bulkhead installation, and dredging.

PROJECT EXPERIENCE

UI Steel Point Waterfront Rehabilitation - The project involved the installation of approximately 1,200 linear feet of steel pile bulkhead and the demolition of an 800 square foot concrete wharf. As the full-time Resident Project Representative, Mr. Anastasio advanced the project from the bid phase through construction completion and successfully confirmed the Contractor fulfilled their contractual requirements in an expedient manner. Mr. Anastasio's field duties included review and evaluations of shop drawings, project layouts, construction methodologies, payment requests, change orders, and schedule. Additional responsibilities including the investigation of equipment and materials, quality assurance, presentation of daily reports to the client, observation of pile driving, ground anchor installation and concrete pours, testing compliance, and conduct weekly project meetings.

ATF/Snapple Rehabilitation, Brooklyn, NY - Provided design, permitting, and construction administration services for rehabilitation of warehouse building foundation on Upper New York Bay. Construction included repairs to existing cast-in-place concrete foundation piles, installation of a new anchored bulkhead composed of steel H-piles and treated timber lagging, and placement of Controlled Low Strength Material (CLSM) beneath the existing building floor. The CLSM was installed to replace existing fill that had scoured away, the CLSM restored lateral support for the supporting piles. 2008.

Piers 16, Manhattan, New York - Project manager and lead diver on all phases of the sub-structural rehabilitation project, which included timber pile structural repairs and topside electrical repairs.

Pier 42, Manhattan, New York - Project manager and lead diver on all phases of the rehabilitation project. Performed a routine inspection of Pier 42 along the East River. The work included concrete structural encasements on existing H-piles, anode installations on piles and caps, concrete deck rehabilitation, and shotcrete application to pile caps.

Todd Manson

PE

PROJECT ENGINEER

Ocean and Coastal
Consultants  | COWI

Education

B.Sc., Ocean Engineering, University of Rhode Island, 2007

Professional Registrations

Professional Engineer (RI)

Professional Associations

American Society of Civil Engineers (ASCE)

Coasts, Oceans, Ports & Rivers Institute (COPRI)

Training

TWIC Card

OSHA 10 Hour Construction Safety

CPR/AED 1st Aid Certified

NYSDEC Erosion and Sediment Control (E&SC) Qualified Inspector

Mr. Manson is a coastal engineer and project manager with an array of shoreline design and inspection experience. He is an active participant in the inspection, design and assessment of piers, wharves, bulkheads and seawalls, revetments and other shoreline stabilization structures. He possesses a specialty in waterfront/ocean engineering, and has expertise in wave modeling, erosion and sediment transportation and related disciplines. Mr. Manson also has worked with various local, state and federal environmental permitting agencies to procure approvals for the project's construction.

PROJECT EXPERIENCE

Howard Beach Boardwalk, Queens, NY – Project manager and permitting specialist for the design and permitting of a pedestrian walkway damaged by Hurricane Sandy in Hawtree Basin in the Howard Beach section of Queens. The site is squeezed between the Hawtree wetlands and MTA rail tracks, limiting site access and requiring a unique solution for construction. The project is expected to gain approval from the regulatory agencies and finish construction by the end of 2013.

Sherman Creek Shoreline Restoration; Manhattan, NY, for Mathews Nielsen Landscape Architects P.C./NYCDPR - Senior Coastal Engineer responsible for providing shoreline cleanup and restoration to underutilized New York City parkland along the Harlem River. Construction documents outlined the removal of the deteriorated pier structures as well as provided an ecologically friendly "soft shoreline" solution for shoreline stabilization.

Scenic Hudson's Long Dock Park; Beacon, New York - Coastal Engineer for the design of shoreline stabilization solutions at Long Dock Park in Beacon. Working with the design team, Mr Manson assisted in the production of construction documents which included new bulkheading and a new pebble beach kayak launch. Additional responsibilities included coordination on obtaining related environmental permits, assistance with the bid phase support, and construction administrative services.

Design of an Oceanfront Pier, Ferry Terminal and Waterfront Destination, City of Long Branch, New Jersey - Coastal Engineer for the schematic design phase of services needed to construct a new 133,000 square feet oceanfront pier in Long Branch, New Jersey. Mr. Manson's responsibilities included examining the ocean climate and preparing a preliminary environmental forces study, preliminary examination of potential ferry operations at the proposed pier, and early coordination with state and federal environmental regulatory agencies to discuss the potential impacts related to oceanfront construction.

Bulkhead at Lincoln Harbor, Weehawken, NJ, for Hartz Mountain - Coastal Engineer tasked with assisting in the design and preparation of construction drawings for repair of bulkhead at Lincoln Harbor using composite sheetpiling and deadmen. Responsibilities also included the procurement of state and federal environmental permits for the proposed repair as well as construction administration services.

Mariner's Cove & The Landing; Edgewater, NJ, for SSR Realty - Coastal Engineer for engineering and design services related to the repairs to the Hudson River Waterfront Walkway at Mariner's Landing in Edgewater, NJ. Damaged during the storms of March, 2010, Mr. Manson was involved in all phases of the project which included inspection/investigation, preparation of repair design documents, procurement of environmental permits and construction administration services.

Azure Dee Sleicher

PE, ENV SP

**REGULATORY REVIEW &
PERMITTING**

Ocean and Coastal
Consultants  | 

Education

M.S., Coastal Engineering, Florida
Institute of Technology, 2000

B.S. Environmental Engineering,
Syracuse University, 1998

Professional Registrations

Professional Engineer (NY, NJ and CT)

Professional Associations

American Society of Civil Engineers -
Coasts

Coasts, Oceans, Ports & Rivers Institute

Ms. Sleicher has a wide range of experience in both the coastal and environmental engineering disciplines. Such experience includes design and analysis of structures for coastal erosion control and prevention, as well as marine structures for ports and harbors. Related duties have included construction supervision, surveying, site investigations (both above and underwater as a PE-Diver), and regulatory compliance. She has strong theoretical background in coastal processes and practical experience in wave dynamics, sediment transport, hydraulics, and scour assessment. She has utilized coastal engineering software and shore protection methods of the U.S. Army Corps of Engineers (USACE) and other authorities to determine wave climates and design conditions. Ms. Sleicher has been responsible for a variety of coastal engineering modeling projects, including shoreline stabilization and beach erosion assessment for private and public waterfront development projects. She has assisted in or managed the design, modeling and permitting of numerous recreational marine facilities, including boardwalks, piers, and marina docking structures. She has extensive experience with the regulatory requirements of the U.S. Army Corps of Engineers, and environmental regulation, and impact assessment requirements of the New York State Department of Environmental Conservation and the New York State Department of State Division of Coastal Resources. Ms. Sleicher also has regulatory and coastal engineering expertise with FEMA projects including determination of flood zones and loads consistent with FEMA's practices and compliance with flood zone requirements.

PROJECT EXPERIENCE

Croton Yacht Club Bulkhead Replacement - Village of Croton-on-Hudson, NY – Project Manager for replacement of an existing 400 foot long steel bulkhead. OCC performed full design services and all permitting with NYSDEC, USACE, NYSDOS and local agencies to replace the bulkhead. OCC performed resident engineering services during construction in late 2014.

DeLaval and STP Properties, Poughkeepsie, NY - Project Engineer/Project Manager for design of shoreline stabilization consisting of steel sheet pile bulkhead and riprap revetment. Other tasks included preparing regulatory permit applications and coordination with the agencies during review, final designs, contract documents, assistance during the bid process, and providing resident engineering services during construction.

Manursing Island Club, Rye, NY - Project Manager provided renovation plans for existing waterfront structures. Structures included a deteriorated steel bulkhead and an eroded, poorly designed concrete revetment. Concepts and opinions of probable costs for revetment replacement and bulkhead rehabilitation were presented. Permits were secured at the state, federal and local levels. Final design and contract documents were prepared. OCC performed construction administration services as required.

Tropicana Bulkhead, Whitestone, NY - OCC provided design, permitting, and construction administration services for approximately 550 linear feet of shoreline stabilization of a site on the East River in Whitestone, New York. Construction included a cantilevered steel sheet pile bulkhead and riprap revetment. Ms. Sleicher designed the revetment and assisted in the permit application process.

South Brooklyn Marine Terminal Bulkhead Rehabilitation – Prepared state and federal permit applications as well as local coastal consistency assessment for rehabilitation of riprap revetment and steel sheet pile bulkhead.

Ilker Tutuncu

PhD, PE

**STRUCTURAL & GEOTECHNICAL -
ANALYSIS & DESIGN**

Ocean and Coastal
Consultants  | **COWI**

Education

Ph.D., Civil/Environmental Engineering,
Cornell University, 2001

M.Sc., Structural Engineering, Middle
East Technical University, 1995

B.Sc., Civil Engineering, Middle East
Technical University, 1992

Professional Registrations

Professional Engineer (CA)

Structural Engineer (CA)

LEED Accredited Professional - 2005

Professional Associations

Professional Engineer (NY and CT)

Mr. Tutuncu has broad-based capabilities that include 16 years of experience in conceptual design, detail design, inspection, and condition assessment of coastal and marine structures; marine facilities and terminals; bulk storage silos; oil import, storage and export facilities; buried pipeline systems; and industrial and hotel buildings. He also has 3 years of experience in advanced research, numerical and analytical modeling, finite element analysis and full-scale laboratory testing of pipelines.

PROJECT EXPERIENCE

NYCEDC Intrepid Museum Pier 86, New York City - Marine Structural Engineer responsible for the evaluation and development of alternative piling options and the final design of the pier deck for the 780-foot-long (238-meter) Intrepid Museum pier.

Costa Azul LNG Terminal, Mexico - Marine Structural Engineer for review and revision of the berthing and mooring design criteria for this LNG import terminal—the first LNG receipt terminal on the west coast of North America.

Newtown Creek Shoreline Structures, NY - Marine Structural Engineer for the final design of a steel sheet pile bulkhead wall and a pile-supported precast concrete platform.

Brooklyn Bridge Park Master Plan, NY - Marine Structural Engineer for the conceptual design of a 230-foot-long (70-meter-long) steel pile-supported, precast concrete pier as part of the Brooklyn Bridge Park Master Plan. Brooklyn Bridge Park is an 85-acre (34.4-hectare) park currently under construction on the Brooklyn waterfront in the vicinity of the Manhattan and Brooklyn bridges. Two sections of the park – Pier 1 and Pier 6 – opened in 2010 and the remainder of Phase 1 is expected to be complete in 2013.

West 30th Street Heliport Relocation Study, New York City Economic Development Corporation (NYCEDC), New York City - Marine Structural Engineer for evaluation of the feasibility of relocating existing heliport to one of two other waterfront sites. Responsibilities included evaluation of barge and fixed pier structures for two general layouts at two site locations.

Strategic Initiative for Rebuilding and Resiliency (SIRR), New York, NY - Marine Structural Engineer responsible for coordination of marine engineering components of the study, development of coastal protection typologies applicable to different site conditions to minimize storm surge damage, and assisting cost estimating of these typologies.

Port of Guam Modernization Plan, Piti, Guam - Marine Engineering Manager responsible for the detail design to upgrade or replace six cargo berths, the Hotel Wharf and the Seaplane Ramp at the Jose D. Leon Guerrero Commercial Port – the biggest U.S. deep-water port in the Western Pacific region – which lies on the shores of Apra Harbor in west central Guam. The master plan calls for nearly \$200 million in capital improvement upgrades to the port. Key modernization initiatives include upgrading the terminal operating system to allow for automated invoicing, cargo and container tracking, financial management and maintenance management; expansion of wharf space to accommodate larger vessels as well as increase overall vessel handling capacity; acquisition of additional gantry cranes to allow for increased cargo movement through the port and to enhance overall productivity and efficiency and expansion of existing facilities to support the fishing and cruise line industries.

John V. Bazzoni, Jr.

CONSTRUCTION ADMINISTRATION & COST ESTIMATING

Ocean and Coastal
Consultants  COWI

Education

B.Sc., Construction Engineering Tech.,
Central CT State Univ., 1987

Professional Registrations

OSHA Confined Space Safety Entrant,
Attendant, Supervisor (29 CFR 1910.146)

OSHA 10-hr General Industry Certification

OSHA 10-hr and 30-hr Construction
Certifications

OSHA HAZWOPER 40-hr Training (29 CFR
1910.120)

Surface Supplied Diving Operations/2002/
Florida State University

Kirby Morgan Dive Systems, Inc. – Helmet
and Band Mask Operator/User Training/2010

Dan O2 Oxygen Provider, Advanced
Oxygen Provider and On-Site Neurological
Assessment Provider

CPR/AED/First Aid/ Bloodborne Pathogens
Training

TWIC Card

Mr. Bazzoni has over 28 years of experience as a construction professional in the construction and engineering field with experience in positions of responsibility representing both Contractors and Engineers. He has fulfilled duties and responsibilities as Construction Engineer, Project Engineer, Field Engineer, and Project Manager. He successfully applies his practical knowledge to projects involving inspection, rehabilitation, and construction of all types of coastal structures. Mr. Bazzoni is responsible for coordinating and overseeing all estimating services including production of Opinions of Probable Cost for all marine construction programs performed by OCC. During the design development phase, he works closely with OCC designers to develop constructible and economically feasible design details and Specifications, minimizing the possibility of construction claims, while satisfying project criteria. Mr. Bazzoni performs quality control reviews of each of OCC's designs prior to their issuance for bidding or construction. His extensive marine construction and design experience and careful review is a critical component in OCC's success in development of exceptional construction documents.

Mr. Bazzoni's expertise and experience is a valuable resource to OCC's clients that retain OCC for construction phase services. Mr. Bazzoni is an expert in marine Construction Administration, overseeing and serving as a valuable resource and mentor to OCC's staff that provide construction phase services. Under Mr. Bazzoni's guidance, OCC staff members assist OCC's clients in effectively managing their construction projects, helping to ensure that the projects are completed with the highest quality, within the allocated budget, and on schedule.

PROJECT EXPERIENCE

Seawall Investigation & Repair Design, Governors Island, NY - Provided design, permitting, and Construction Administration services for rehabilitation of stone seawalls along the perimeter of historical Governor's Island in New York Harbor. 2003.

NYCDOT FDR Marine Borers, RE Services, New York, NY - Assistant Project Manager for this emergency project, the work was performed on a fast track basis to address immediate stability concerns as well as preventing long term deterioration from marine borers. The work involved installations of bored-in piles, epoxy grout encapsulation of timber piles, wrapping of timber piles, structural concrete encasements, and placement of lightweight concrete fill.

Yonkers Avenue Bulkhead, Tuckahoe, NY - Construction Engineer for stabilizing 240 LF of riverfront and adjacent roadway located at a 90-degree bend in the Bronx River. The design included construction of a steel combination wall with piles rock-socketed into fractured marble bedrock, as well as a reinforced concrete retaining wall. Provided site assessment, structural design, development of plans and specifications using SPECSINTACT, and assisted the USACE with review of contractor submittals and RFI's during construction.

Tropicana Bulkhead, Whitestone, NY - Provided design, permitting, and Construction Administration services for approximately 550 linear feet of shoreline stabilization of a site on the East River in Whitestone, New York. Construction included a cantilevered

Alex Mora

PE

TECHNICAL ENGINEER

Ocean and Coastal
Consultants  COWI

Education

M.E. Civil Engineering Structures, City
University of NY, City College, 1993

B.Sc., Civil Engineering, Catholic
University in Santiago de Guayaquil
Ecuador, 1990

Professional Registrations

Professional Engineer
NY, CT, NJ and IA

OSHA Confined Space Safety Entrant,
Attendant and Supervisor (29 CFR
1910.146)

OSHA HAZWOPER 40-hr Training (29
CFR 1910.120)

TWIC Card

Professional Associations

ASCE COPRI Seismic Design of Piers
and Wharves Committee

CSCE Fairfield County Branch

Mr. Mora is a Lead Technical Engineer with extensive experience in the design and analysis of timber, steel, and concrete structures. With over 20 years of experience designing a variety of structures, Mr. Mora has a strong professional and theoretical background in the design and analysis of waterfront facilities. His work has included the seismic analysis and design of steel, wood, and concrete structures in response to induced vibrations, field and analytical investigations to evaluate the strength of structures, and the rehabilitation and strengthening of existing steel and concrete structures. With a strong combination of field investigation, structural assessment, and construction monitoring experience, as well as analysis and design, Mr. Mora is valuable in all phases of structural analysis, design, and construction. Mr. Mora is very proficient in PC-based systems and software for analysis and modeling, including STAAD-Pro structural analysis software. He is also experienced with TOPCON survey equipment and a variety of structural analysis instrumentation.

PROJECT EXPERIENCE

DeLaval and STP Properties, Poughkeepsie, NY – Lead structural engineer for steel sheetpile bulkhead. Performed structural analysis and prepared detailed design and technical specifications.

United Illuminating English Station Phase 3 Bulkhead Rehabilitation Project, Bridgeport, CT - Project engineer for this project consisting of sheeting approximately 1200 linear feet of steel sheet pile bulkhead, and replacement of the existing anchor system with new ground anchors.

UI English Station Bulkhead Rehabilitation, New Haven, CT - Rehabilitated a site comprised approximately of 2600 linear feet of deteriorated waterfront consisting of anchored steel sheet pile bulkheads, intake and discharge structures, active high voltage submarine cable crossings, and 115 kV overhead high-tension power lines. Services included initial evaluations, investigations, permitting services, contractual development, bid assistance, bid analysis and recommendations, construction administration, etc.

USACE Yonkers Ave Bulkhead Design, Tuckahoe, NY - Developed detailed plans and specifications for 240 linear feet of steel sheet pile to stabilize the shoreline between Elm Street and Main Street on Yonkers Avenue in Tuckahoe, NY. In addition, a rip-rap apron was installed at the 90 degree bend of the Bronx River..

Ichabod's Landing Bulkhead, Hawthorne, NY - Provided preliminary design, final engineering and preparation of Bid Documents for the construction of a steel sheet pile cantilever bulkhead as well as repairing an anchored sheet pile bulkhead to restore its capacity and extend its service life. Assisted the client during the bid process. Performed field review during construction to document that the final project was in substantial compliance with the design and with the regulatory authorization. 2006.

Tropicana Bulkhead, Whitestone, NY - Provided preliminary design, final engineering and preparation of Bid Documents for the construction of a steel sheet pile cantilever bulkhead.

Hudson River Waterfront Walkway at Weehawken, NJ - Provided preliminary design, final engineering and preparation of Bid Documents for the construction of a steel sheet pile cantilever bulkhead.

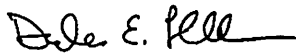
5. REQUIRED FORMS

THE UNIVERSITY OF THE STATE OF NEW YORK EDUCATION DEPARTMENT

THIS IS TO CERTIFY THAT HAVING MET THE REQUIREMENTS OF SECTION 7210 OF THE EDUCATION LAW AND IN ACCORDANCE THEREWITH THIS CERTIFICATE OF AUTHORIZATION IS GRANTED WHICH ENTITLES


OCEAN AND COASTAL CONSULTANTS ENGINEERING PC
35 CORPORATE DRIVE
SUITE 1200
TRUMBULL, CT 06611-0000

TO PROVIDE PROFESSIONAL ENGINEERING SERVICES IN THE STATE OF NEW YORK FOR THE PERIOD 01/01/2013 TO 12/31/2015.



DOUGLAS E LENTIVECH
DEPUTY COMMISSIONER
FOR THE PROFESSIONS

CERTIFICATE NUMBER
0009782



JOHN B KING JR
PRESIDENT OF THE UNIVERSITY
AND COMMISSIONER OF EDUCATION

RESOLUTIONS



VILLAGE OF
PORT CHESTER

222 Grace Church Street, Port Chester, New York 10573

AGENDA MEMO

Department: Village Engineer

BOT Meeting Date: 4/13/2015

Item Type: Resolution

Sponsor's Name: Dolph Rotfeld, Village Engineer

Description	Yes	No	Description	Yes	No
Fiscal Impact	<input type="checkbox"/>	<input type="checkbox"/>	Public Hearing Required	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Funding Source:			BID # 15-04		
Account #:			Strategic Plan Priority Area		
	Yes	No	Choose a Strategic Plan Area		
Agreement	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Manager Priorities		
Strategic Plan Related	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Choose a Manager Priority		

Agenda Heading Title
(Will appear on the Agenda as indicated below)

Awarding BID 2015-04 - Sanitary Sewer And Storm Drain Cleaning And Television Inspection (Bid No. 15-04).

Summary

Background:

This contract will be used to assist the Village in its evaluation of the Village sewer systems condition. It will also be used to identify illicit connections and leaks as part of the EPA Administrative Order.

Proposed Action

That the Board of Trustees adopt the Resolution

Attachments

Analysis Sheet
 Award Recommendation

AWARDING BID FOR
SANITARY SEWER AND STORM DRAIN CLEANING & TELEVISION
INSPECTION

On motion of TRUSTEE seconded by TRUSTEE , the following resolution was adopted by the Board of Trustees of the Village of Port Chester, New York:

WHEREAS, the Village of Port Chester has advertised for bids for Sanitary Sewer and Storm Drain Cleaning and Television Inspection (Bid No. 2015-04); and

WHEREAS, the Village received two bids for this work; and

WHEREAS, the Village's consulting engineer, Dolph Rotfeld Engineering, P.C., recommends that the Board accept the low bid of National Water Main Cleaning Co. Kearney, New Jersey which bid which meets all the specifications as set forth in the bid documents. Now therefore, be it

RESOLVED, that the Board of Trustees hereby awards the bid for Sanitary Sewer and Storm Drain Cleaning and Television Inspection to National Water Main Cleaning Co., 1806 Harrison Avenue, Kearney, New Jersey 07032 in the amount of \$186,580.00; and be it

FURTHER RESOLVED, that the Village Manager is hereby authorized to enter into an agreement with the contractor; and be it

FURTHER RESOLVED, that the funding for said work be appropriated from the Sewer Improvement Project 5.8120.400.2013.132 in the Capital Fund.

APPROVED AS TO FORM:

Anthony M. Cerreto, Village Attorney

Dolph Rotfeld Engineering, P.C.

CONSULTANTS & DESIGNERS

200 White Plains Road, Tarrytown, NY 10591 • (914) 631-8600

April 3, 2015

Mr. Christopher Steers
Village Manager
222 Grace Church Street
Port Chester, N.Y. 10573

RE: 2015 Sanitary Sewer Cleaning and Television Inspection
Bid No. 15-02
Port Chester, New York

Dear Mr. Steers:

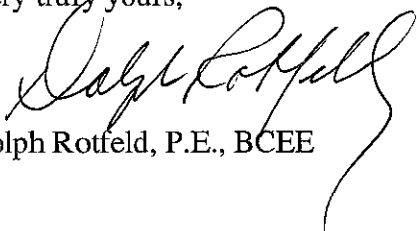
On Friday April 3, 2015 two bids were received for the above referenced project. The apparent low qualified bidder was National Water Main Cleaning Co. of Kearny NJ with a Total Bid Price of \$186,580.00. The second bidder was Fred A. Cook at \$198,500.00

This office has worked with National Water Main Cleaning Co. on other projects of similar scope and we have found that their work is satisfactory.

We therefore recommend that the contract be awarded to National Water Main Cleaning Co. by the Board of Trustees at the April 6th 2015 meeting. This will keep us in the schedule acceptable to the USEPA.

Please advise us of your decision so we can schedule a meeting with National Water Main regarding contract signing, insurance policies and a tentative work schedule.

Very truly yours,



Dolph Rotfeld, P.E., BCEE

C: A. Cerreto, Village Attorney
J. Richards, Village Clerk

VILLAGE OF PORT CHESTER

BID ANALYSIS SHEET

BID #2015-04

BID FOR:	SANITARY SEWER AND STORM DRAIN CLEANING & TELEVISION INSPECTION		
BID OPENING DATE:	APRIL 3, 2015	TIME:	11:00 A.M.
BID PUBLICATION DATE:	MARCH 27, 2015		
SPECIFICATIONS AVAILABLE:	MARCH 27, 2015		

Please Print Name and Address			
BIDDER:	National Water Main Cleaning Co.		
ADDRESS:	1806 Harrison Avenue		
ADDRESS:			
CITY:	Kearney	STATE:	NJ
		ZIP CODE:	07032
E-MAIL:	Alexandra@nwmcc.com		
PHONE #:	201-726-1264	FAX #:	201-726-1284
AMOUNT:	186,580.00		

Please Print Name and Address			
BIDDER	Fred A. Cook, Jr.		
ADDRESS:	P.O. Box 70		
ADDRESS:			
CITY:	Montrose	STATE:	NY
		ZIP CODE:	10548
E-MAIL:			
PHONE #:	914-739-3300	FAX #:	914-739-8525
AMOUNT:	198,500.00		

Please Print Name and Address			
BIDDER:			
ADDRESS:			
ADDRESS:			
CITY:		STATE:	
		ZIP CODE:	
E-MAIL:			
PHONE #:		FAX #:	
AMOUNT:			

VILLAGE OF PORT CHESTER

BID ANALYSIS SHEET

The following were present at the opening of the bids (☑):

Village Clerk:	<input checked="" type="checkbox"/>	Janusz Richards
Deputy Village Clerk:	<input type="checkbox"/>	Vita Sileo
Village Attorney	<input type="checkbox"/>	Anthony (Tony) Cerreto
Department Head:	<input type="checkbox"/>	
Village Engineer:	<input checked="" type="checkbox"/>	Dolph Rotfeld
Project Engineer:	<input type="checkbox"/>	Dan Peluso
Other:	<input checked="" type="checkbox"/>	<i>Dan Santillo</i>
Other:	<input checked="" type="checkbox"/>	<i>He Oke</i>
Other:	<input type="checkbox"/>	
Other:	<input type="checkbox"/>	
Other:	<input type="checkbox"/>	
Other:	<input type="checkbox"/>	
Other:	<input type="checkbox"/>	

Dan

CORRESPONDENCE

TRAFFIC COMMISSION
Port Chester, New York

April 9, 2015

Mayor Dennis Pilla and the Board of Trustees
Village of Port Chester

Dear Mayor Pilla and the Board of Trustees:

The Traffic Commission has reviewed the letter dated April 6, 2015, from Nardo Associates regarding 1 Landmark Square Parking Garage Spot Painting of Steel.

The Commission along with Sgt. Steven Barbara, Port Chester Police Department Traffic Division, recommend rescinding for a 15 day period commencing once the proper permits are issued, the parking regulations as stated below and in the attached email from Sgt. Barbara:

Village Code on Vehicle and Traffic, Schedule XIV: Section 319-75 pursuant to the provisions of Section 319- 21A; Nighttime Parking Prohibited Certain Hours. (All Night Parking 1am-6am)

<u>Name of</u>	<u>Side</u>	<u>Direction of</u>	<u>Location</u>
		<u>Travel</u>	
Locust Avenue	East	North	from Horton Avenue to Rectory Street
Orchard Street	East	North	from Wilkins Avenue to Rectory Street
Highland Street	North	West	from Locust Avenue to Willett Avenue

Village Code on Vehicle and Traffic, Schedule XV: Section 319-76 pursuant to the provisions of Section 319-12B; Parking Prohibited Certain Times.

(Street Cleaning 8:30am-11:30am, Thursday & Friday))

<u>Name of</u>	<u>Side</u>	<u>Direction of</u>	<u>Location</u>
		<u>Travel</u>	
Wilkins Avenue	North	West	from N. Main Street to Locust Avenue
Wilkins Avenue	South	West	from N. Main Street to Locust Avenue

Sincerely,

Joseph Gianfrancesco

Joseph Gianfrancesco
Traffic Commission

JG:vs
attachment

Cc: Christopher Steers
Christopher Ameigh

**PUBLIC COMMENTS
AND
BOARD COMMENTS**