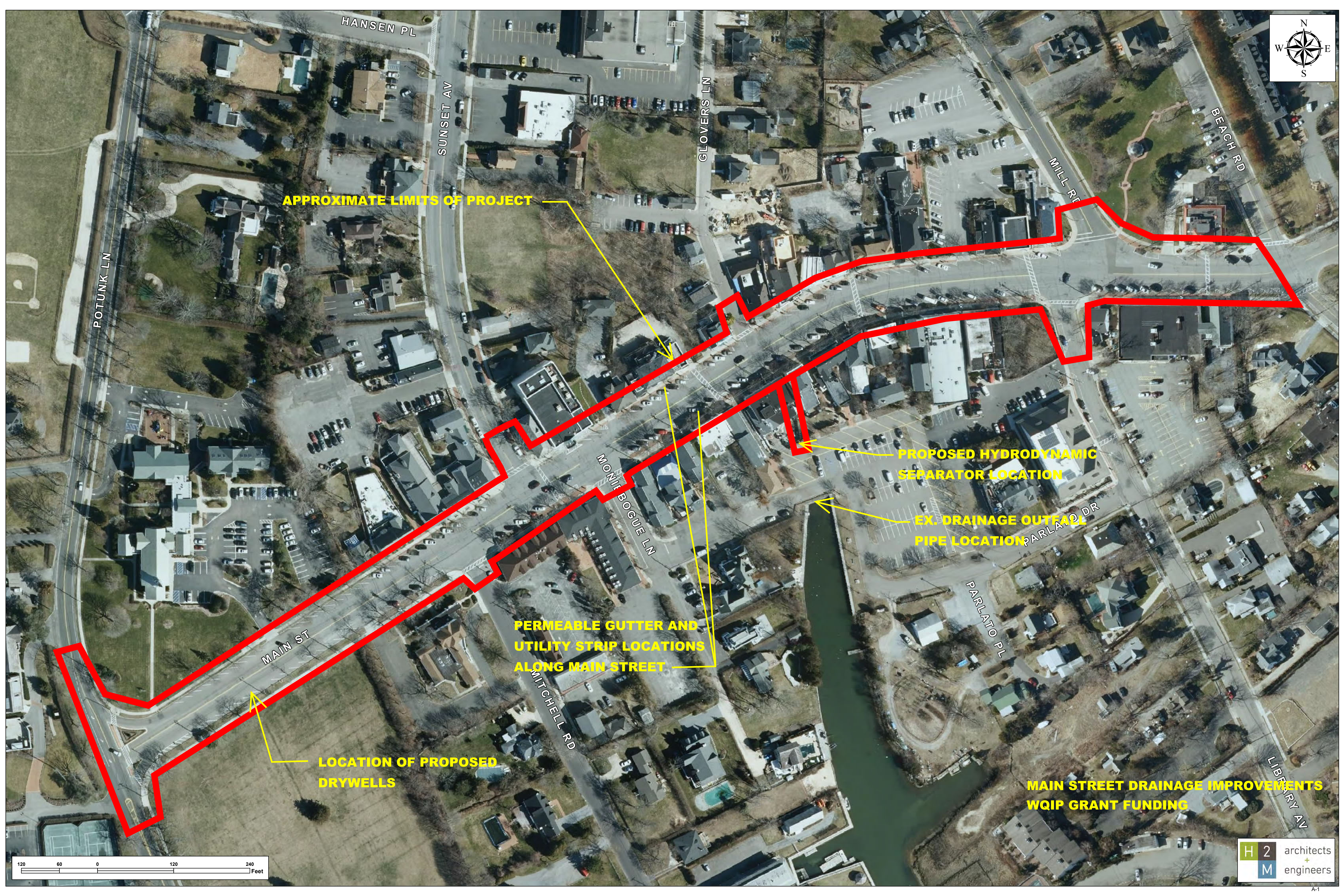
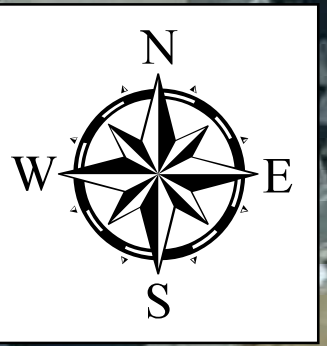
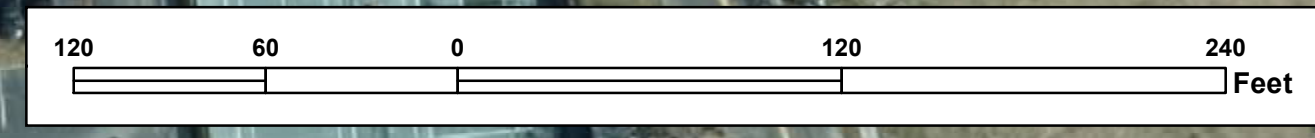




**MAIN STREET DRAINAGE IMPROVEMENTS
WQIP GRANT FUNDING**

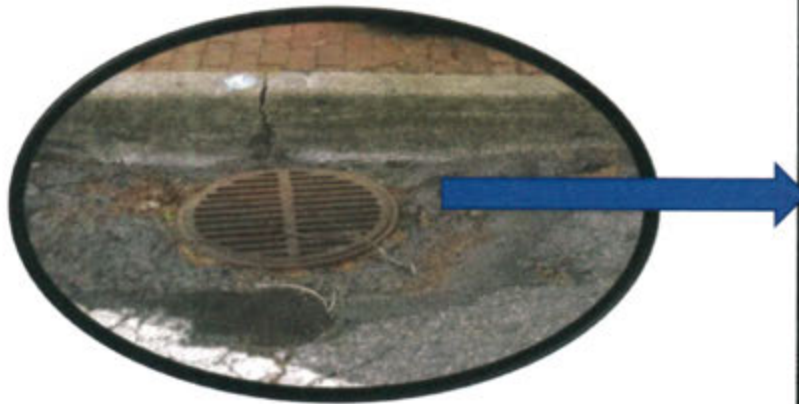




August 16, 2017

Components : EXSITING DRAINAGE INLETS

H 2
M





August 16, 2017

Components : EXISTING DRAINAGE PIPE CONDITIONS

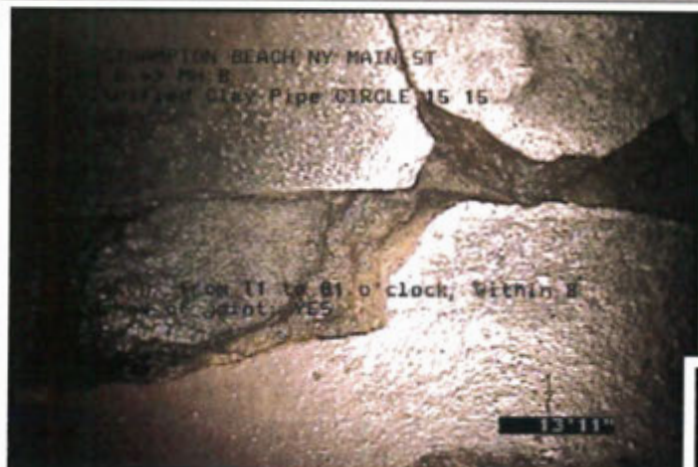


Photo: 1_1_4_12092016_094916_A.JPG, VCR No.: DVD01 TV-91
13.9FT, Broken, from 11 to 01 o'clock, within 8 inches of joint: YES

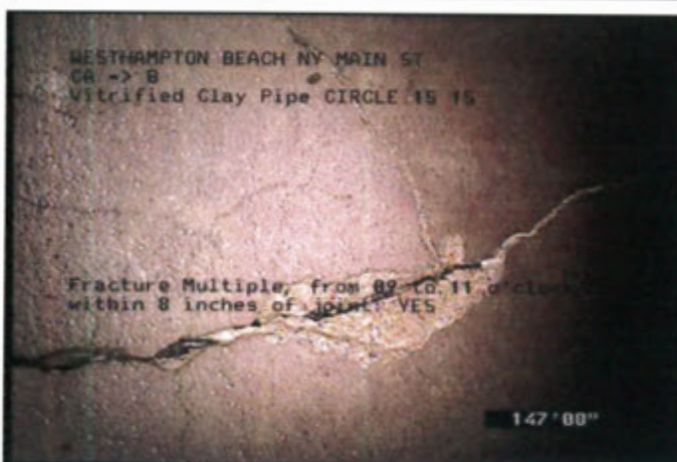


Photo: 3_1_7_13092016_091353_A.JPG, VCR No.: DVD01 TV-91
147.7FT, Fracture Multiple, from 09 to 11 o'clock, within 8 inches of joint: YES

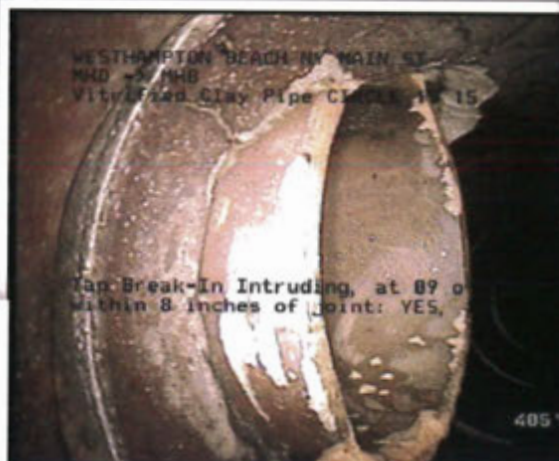


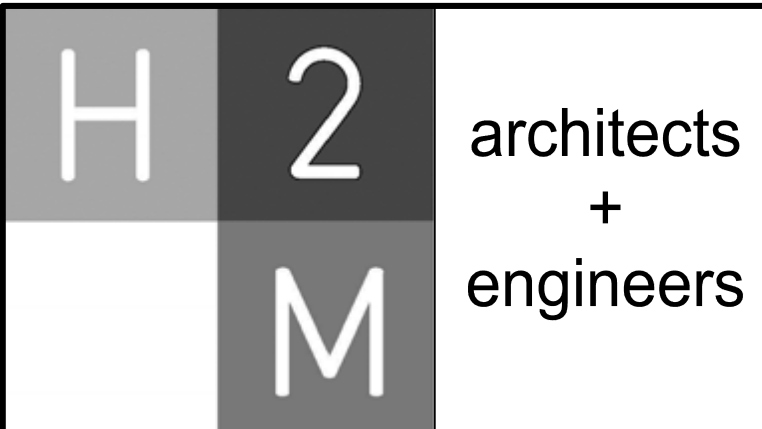
Photo: 2_1_21_12092016_123712_A.JPG, VCR No.: DVD01 TV-91
405.4FT, Tap Break-In Intruding, at 09 o'clock, -, -, within 8 inches of joint: YES, 12", 2"



Photo: 6_1_2_13092016_104043_B.JPG, VCR No.: DVD01 TV-91
28FT, Deposits Settled Compacted, 5 %of cross sectional area, from 05 to 07 o'clock, , within 8 inches of joint: YES



Photo: 6_1_3_13092016_103953_B.JPG, VCR No.: DVD01 TV-91
53.9FT, Upstream Manhole, Survey Ends



CONSULTANTS:

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PROJECT NO.: WHBV 1701	DATE: JUN 2018	SCALE: AS SHOWN	

Main Street Improvement



STATUS **90% SUBMISSION**

SHEET TITLE

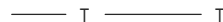
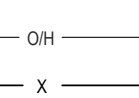
**EXISTING CONDITIONS AND
REMOVALS PLAN**

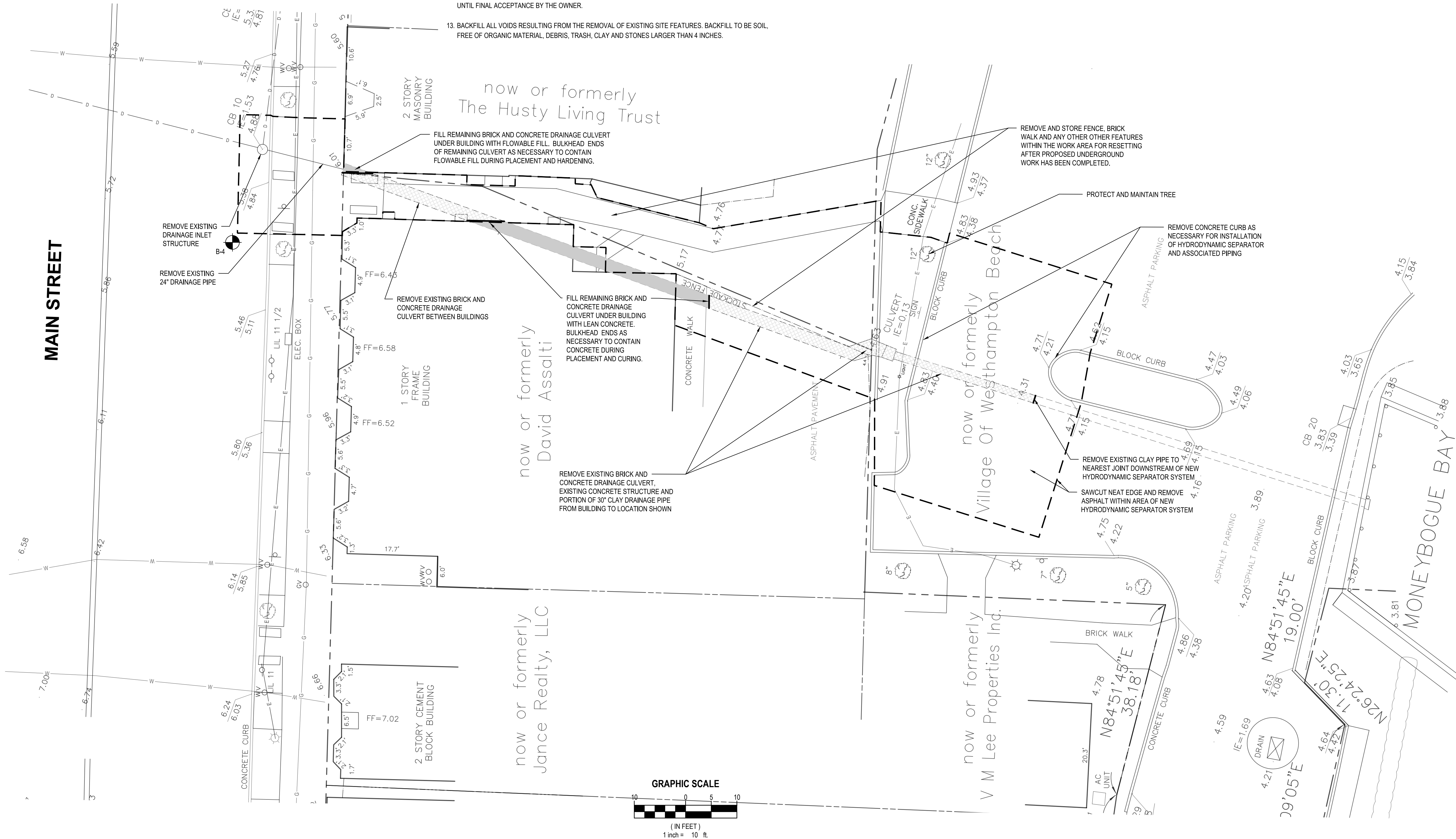
DRAWING No. C1.0	SHEET No. 1 OF 3
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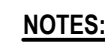
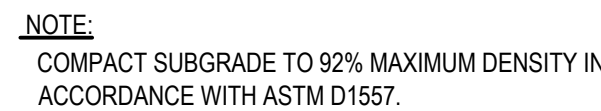
LEGEND

- EOI
END OF INFORMATION PERTAINS TO THE LOSS OF SIGNAL THAT HAS BEEN APPLIED TO AN
UNDERGROUND UTILITY AND THEN DETECTED TO ELECTRONICALLY LOCATE THE UTILITY
COMMONLY FOUND WHERE UTILITIES CHANGE TO NON-CONDUCTIVE MATERIALS, ARE CUT
OR AT END OF UTILITY.

DESCRIPTION	SYMBOL
DRAINAGE MANHOLE	
CATCH BASIN	
HYDRANT	
WATER MANHOLE	
WATER VALVE	
SANITARY MANHOLE	
ELECTRIC MANHOLE	
LIGHT	
PULL BOX	
TRAFFIC SIGNAL BOX	
UTILITY POLE/GUY POLE	
TELEPHONE MANHOLE	
CABLE TELEVISION BOX	
GAS METER	
GAS VALVE	
SIGN	
SOIL BORING	

DESCRIPTION	SYMBOL
MANHOLE	
DECIDUOUS TREE	
CURB	
DROP CURB	
STORM DRAIN	
WATER MAIN	
UNDERGROUND GAS	
UNDERGROUND ELECTRIC	
UNDERGROUND TELEPHONE	
OVERHEAD WIRES	
FENCE	
SPOT ELEVATION	
TOP/BOT CURB GRADE	
LIMIT OF DISTURBANCE	
AREA OF DRAINAGE CULVERT TO BE FILLED W/ CONCRETE	





1. CONCRETE TO ACHIEVE 4000 PSI STRENGTH AT 28 DAYS
2. COMPACT SUBGRADE TO 92% MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D1557.
3. APPLY BROOM FINISH PERPENDICULAR TO DIRECTION OF TRAVEL.

NTS (321216.13 H2MX1) - U



1. WOOD FLOAT AND BRUSH FINISH ON ALL SURFACES ABOVE GRADE.
2. AT ALL CURB ENDINGS, PROVIDE SMOOTH TRANSITION DOWN TO PAVED SURFACE.
3. PROVIDE 1/2" PREFORMED EXPANSION MATERIAL AT 20' ON CENTER AND AT ALL CORNERS. SET EXPANSION MATERIAL 1/2" BELOW EXPOSED SURFACES AND SEAL JOINT.
4. CONCRETE TO ACHIEVE 4000 PSI STRENGTH AT 28 DAYS.

(321613.16 SUFF 1)



FIELD INLET IS TO BE PRECAST CONCRETE AND CAPABLE OF SUPPORTING AASHTO HS20 HIGHWAY LOADING.

NTS



1. MANHOLE IS TO BE REINFORCED PRECAST CONCRETE AND CAPABLE OF SUPPORTING THE AASHTO HS-20 HIGHWAY LOADING.
2. MANHOLE CONSTRUCTION TO CONFORM TO ASTM C913
3. PROVIDE ADDITIONAL RISERS AS REQUIRED.
4. FLEXIBLE GASKET TO CONFORM TO THE REQUIREMENTS OF ASTM C990.

34913.13 H2MX1)



1. IF DEPTH OF TRENCH EXCEEDS 5', THE CONTRACTOR MUST PROVIDE SHEETING AND BRACING OR A SHEETING BOX IN ACCORDANCE WITH OSHA REGULATIONS. AS AN ALTERNATIVE, IF PERMITTED BY THE ENGINEER, THE TRENCH WALLS MAY BE CUT BACK TO A 1:1 SLOPE OR THE NATURAL ANGLE OF REPOSE FOR THE SOIL, WHICHEVER IS GREATER.
2. WITHIN 9" OF PAVEMENT SUBGRADE ELEVATION (WHERE APPLICABLE) COMPACT BACKFILL TO 92% MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D1557. ALL OTHER BACKFILL MATERIAL TO BE COMPACTED TO 90% MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D1557.

The diagram shows a cross-section of a filter assembly. At the top, two lifting straps are shown. Below them is a horizontal structure labeled 'INLET CASTING COMPLETELY ENCLOSED BY FILTER FABRIC'. Below that is another horizontal structure labeled 'INLET CASTING'. A note points to the filter fabric area, stating: '1. REMOVE ACCUMULATED DEBRIS REQUIRED TO MAINTAIN FILTER FABRIC.' The note is underlined.

The image contains two cross-sectional diagrams of a curb filter installation. The top diagram shows a curb with an inlet casting, a curb filter, and an overflow gap. The bottom diagram shows a curb with an inlet casting, a curb filter, and an overflow gap. Both diagrams include labels for various components and a list of notes.

Top Diagram Labels:

- INLET CASTING COMPLETELY ENCLOSED BY FILTER FABRIC
- EXTEND TUBE BEYOND CURB OPENING
- OVERFLOW GAP
- CURB AND GUTTER INLET
- CURB FILTER
- LIFTING STRAPS

Bottom Diagram Labels:

- MAINTAIN GAP FOR OVERFLOW
- CURB FILTER
- LIFTING STRAPS
- INLET CASTING COMPLETELY ENCLOSED BY FILTER FABRIC
- INLET CASTING

NOTES

1. REMOVE ACCUMULATED SEDIMENT AND DEBRIS AS REQUIRED TO MAINTAIN ADEQUATE FLOW THROUGH FILTER FABRIC.
2. REMOVE INLET PROTECTION UPON PERMANENT STABILIZATION OF CONSTRUCTION SITE.



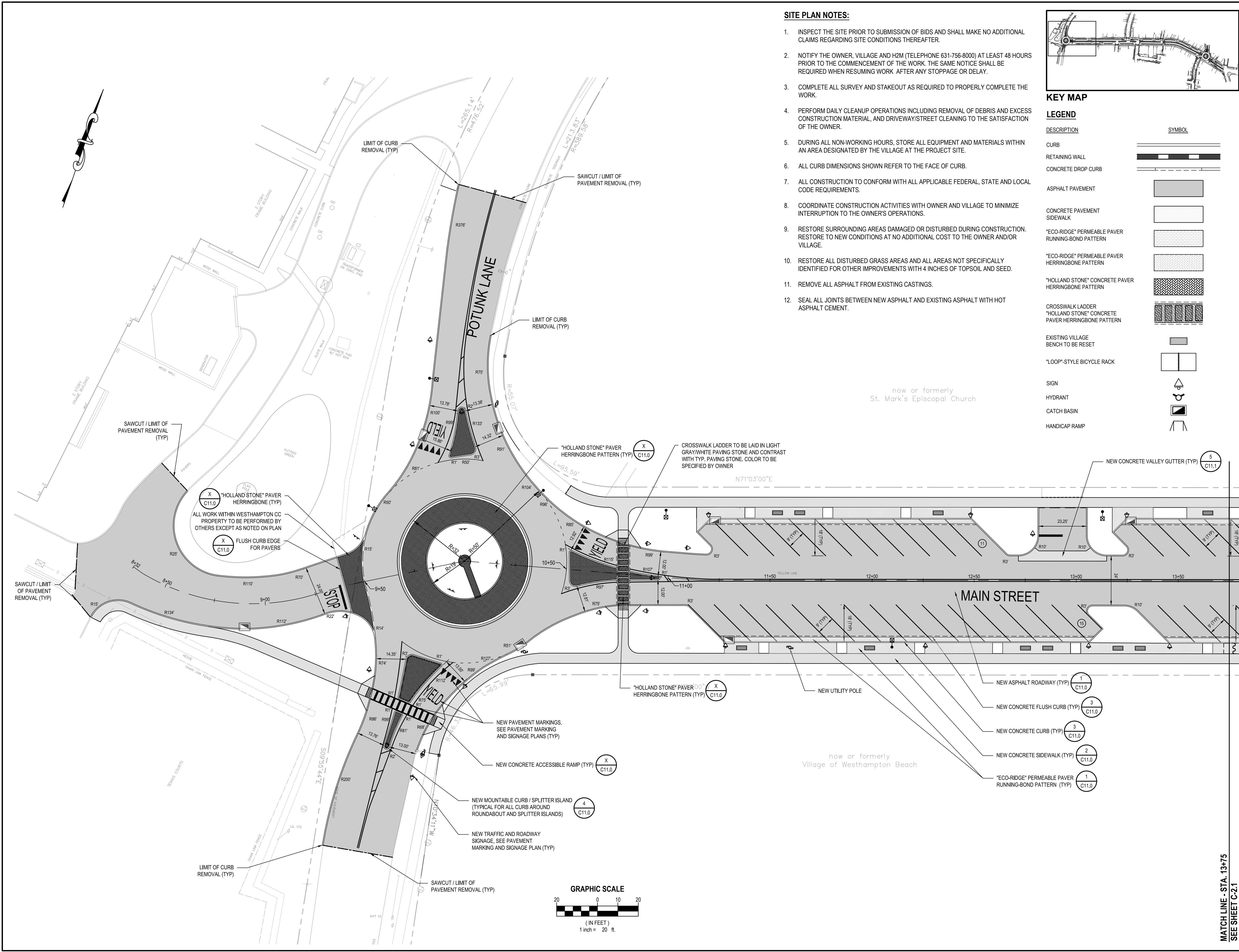
NTS

SOIL BORING NOTE

1. SOIL BORINGS PERFORMED BY CARLIN-SIMPSON
& ASSOCIATES ON 11/1/2017.

C3.0

3



1. INSPECT THE SITE PRIOR TO SUBMISSION OF BIDS AND SHALL MAKE NO ADDITIONAL CLAIMS REGARDING SITE CONDITIONS THEREAFTER.
2. NOTIFY THE OWNER, VILLAGE AND H2M (TELEPHONE 631-756-8000) AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF THE WORK. THE SAME NOTICE SHALL BE REQUIRED WHEN RESUMING WORK AFTER ANY STOPPAGE OR DELAY.
3. COMPLETE ALL SURVEY AND STAKEOUT AS REQUIRED TO PROPERLY COMPLETE THE WORK.
4. PERFORM DAILY CLEANUP OPERATIONS INCLUDING REMOVAL OF DEBRIS AND EXCESS CONSTRUCTION MATERIAL, AND DRIVEWAY/STREET CLEANING TO THE SATISFACTION OF THE OWNER.
5. DURING ALL NON-WORKING HOURS, STORE ALL EQUIPMENT AND MATERIALS WITHIN AN AREA DESIGNATED BY THE VILLAGE AT THE PROJECT SITE.
6. ALL CURB DIMENSIONS SHOWN REFER TO THE FACE OF CURB.
7. ALL CONSTRUCTION TO CONFORM WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL CODE REQUIREMENTS.
8. COORDINATE CONSTRUCTION ACTIVITIES WITH OWNER AND VILLAGE TO MINIMIZE INTERRUPTION TO THE OWNER'S OPERATIONS.
9. RESTORE SURROUNDING AREAS DAMAGED OR DISTURBED DURING CONSTRUCTION. RESTORE TO NEW CONDITIONS AT NO ADDITIONAL COST TO THE OWNER AND/OR VILLAGE.
10. RESTORE ALL DISTURBED GRASS AREAS AND ALL AREAS NOT SPECIFICALLY IDENTIFIED FOR OTHER IMPROVEMENTS WITH 4 INCHES OF TOPSOIL AND SEED.
11. REMOVE ALL ASPHALT FROM EXISTING CASTINGS.
12. SEAL ALL JOINTS BETWEEN NEW ASPHALT AND EXISTING ASPHALT WITH HOT ASPHALT CEMENT.



DESCRIPTION

DESCRIPTION	SYMBOL
CURB	
RETAINING WALL	
CONCRETE DROP CURB	
ASPHALT PAVEMENT	
CONCRETE PAVEMENT SIDEWALK	
"ECO-RIDGE" PERMEABLE PAVEMENT RUNNING-BOND PATTERN	
"ECO-RIDGE" PERMEABLE PAVEMENT HERRINGBONE PATTERN	
"HOLLAND STONE" CONCRETE PAVEMENT HERRINGBONE PATTERN	
CROSSWALK LADDER "HOLLAND STONE" CONCRETE PAVEMENT HERRINGBONE PATTERN	
EXISTING VILLAGE BENCH TO BE RESET	
"LOOP"-STYLE BICYCLE RACK	
SIGN	
HYDRANT	
CATCH BASIN	
HANDICAP RAMP	

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PROJECT No.: WHBV 1701	DATE: JUN 2018	SCALE: AS SHOWN	

CLIENT

**Incorporated Village of
Westhampton Beach**

Main Street Improvement



**165 Mill Road
Westhampton Beach, NY 11978**

CONTRACT

STATUS

90% SUBMISSION

SHEET TITLE

ROADWAY ALIGNMENT PLAN

DRAWING No.

C2.0

7/

C:\Users\bmurrell\appdata\local\temp\AcqPublish_12432\SC2.0 - Roadway Alignment Plan.dwg Last Modified: Jul 09, 2018 - 4:26pm Plotted on: Jul 09, 2018 - 4:39pm By bmurrell



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CONSULTANTS

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PROJECT No.: WHBV 1701	DATE: JUN 2018	SCALE: AS SHOWN	

CLIENT

Incorporated Village of Westhampton Beach

Main Street Improvement



**165 Mill Road
Westhampton Beach, NY 11978**

CONTRACT

STATUS **90% SUBMISSION**

SHEET TITLE

ROADWAY ALIGNMENT PLAN

DRAWING No.

C2.1

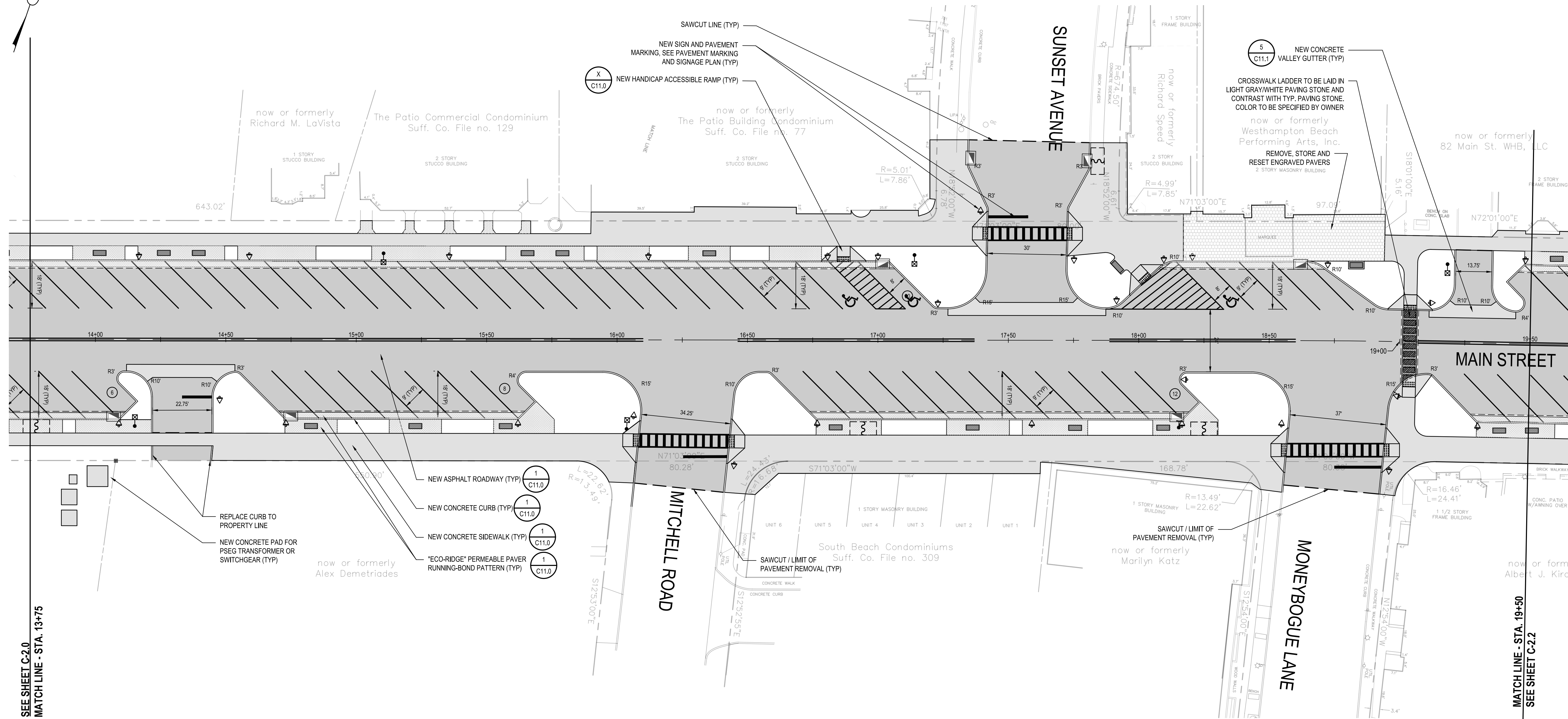
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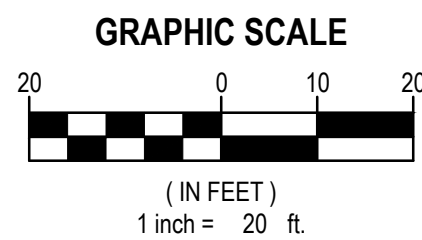
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OF



SEE SHEET C-2.0
MATCH LINE - STA. 13+75

MATCH LINE - STA. 19+50
SEE SHEET C-2.2





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PROJECT No.: WHBV 1701		DATE: JUN 2018	SCALE: AS SHOWN

CLIENT

**Incorporated Village of
Westhampton Beach**

Main Street Improvement



165 Mill Road
Westhampton Beach, NY 11978

CONTRACT

STATUS **90% SUBMISSION**

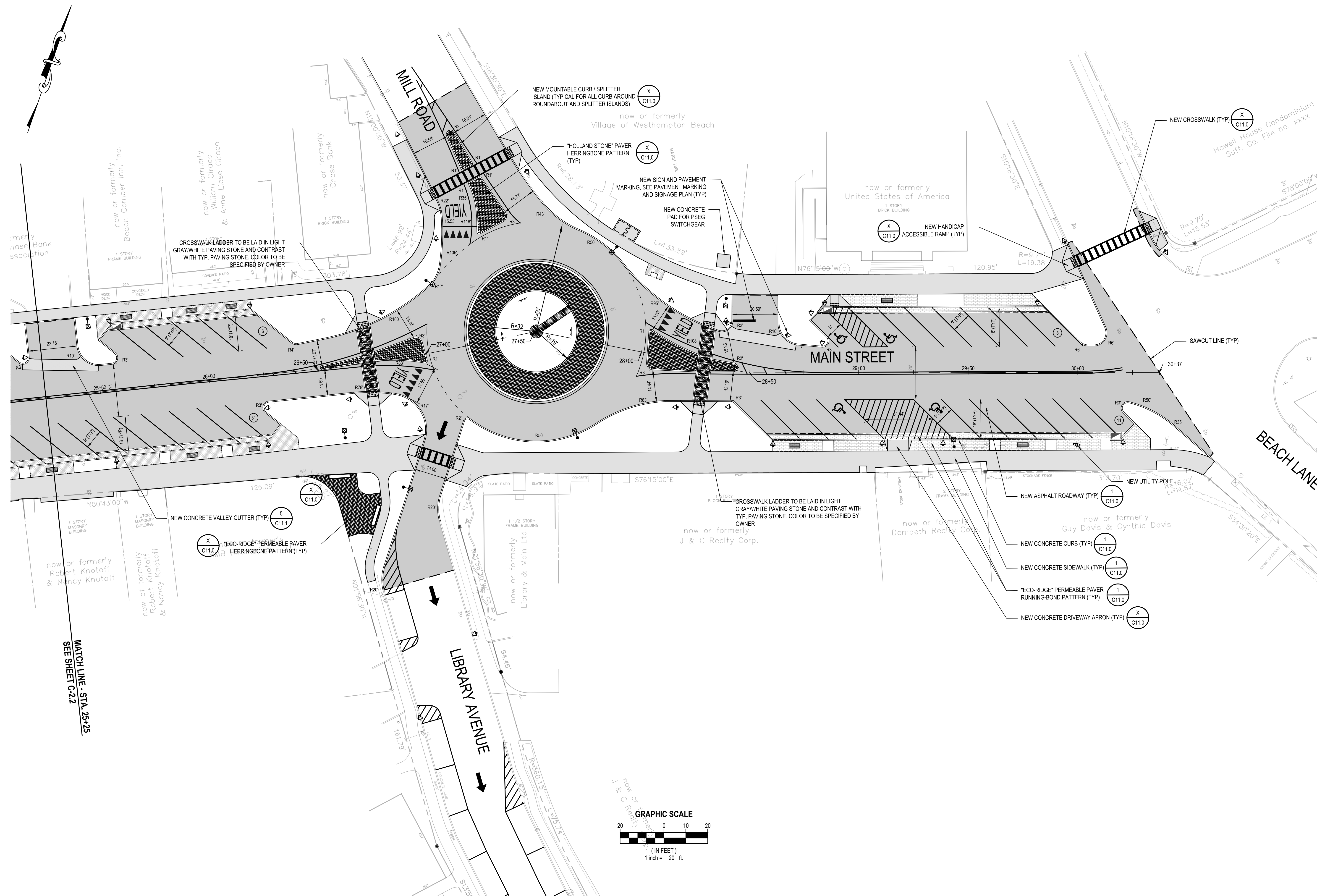
SHEET TITLE

ROADWAY ALIGNMENT PLAN

DRAWING No.

C2.3

SHEET No.
10
OF
A-10



**Village of Westhampton Beach
Main Street Drainage Improvements
Budget Summary**

7/11/18

Planning/Engineering/Design - Contractual	Town CPF Request	Matching Funds Committed	Matching Funds Pending	Estimated Total Project Costs
H2M Main Street Improvement Study (NOTES 1,2)	\$ -	\$ 22,605	\$ -	\$ 22,605
H2M Main Street Roadway Improvements Engineering (NOTES 1,3)	\$ 100,000	\$ 130,000	\$ -	\$ 230,000
Fox Land Surveying - Survey and markout (NOTES 1,2)	\$ -	\$ 39,325	\$ -	\$ 39,325
Subtotal	\$ 100,000	\$ 191,930	\$ -	\$ 291,930
Construction and Site Improvements				
Potunk Lane to Beach Road (NOTE 4)	\$ 828,700	\$ -	\$ 500,000.00	\$ 1,328,700
Alleyway Between Main Street and Municipal Parking Lot	\$ 392,025			\$ 392,025
Construction Administration @ 8%	\$ 137,658			\$ 137,658
Subtotal	\$ 1,358,383	\$ -	\$ 500,000.00	\$ 1,858,383
Total	\$ 1,458,383	\$ 191,930	\$ 500,000.00	\$ 2,150,313

NOTES:

1. Costs relate to overall roadway improvement project which includes drainage system assessment, engineering and design
2. Preaward expenditures
3. Includes preaward expenditures of \$119,194 to date with balance to be expended toward final design and related tasks
4. Matching funds pending includes \$500,000 in two legislative awards sponsored by Thiele/LaValle (\$250,000 each) undergoing DASNY approvals

Village of Westhampton Beach
Drainage Improvements
Alleyway Between Main Street and Municipal Parking Lot
90% Cost Opinion
7/10/2018 **H2M#: WHBV1701**

Item	Quantity		Unit Price		Total
Mobilization	1	ls	\$ 10,000	ls	\$ 10,000
Sawcut existing pavement	150	lf	\$ 5	lf	\$ 750
Remove and dispose existing concrete curb	90	lf	\$ 10	lf	\$ 900
Remove and dispose existing roadway pavement	35	cy	\$ 25	cy	\$ 875
Remove and dispose existing sidewalk pavement	250	sf	\$ 2	sf	\$ 500
Remove brick furnishing zone pavers (Town R.O.W.)	100	sf	\$ 2	sf	\$ 200
Remove ex CB	1	ea	\$ 800	ea	\$ 800
Remove ex drainage piping	30	lf	\$ 20	ea	\$ 600
Remove ex 2.5' x 4' box culvert	70	lf	\$ 225	lf	\$ 15,750
Flowable Fill of Remaining Culvert (incl. bulkhead)	25	cy	\$ 200	cy	\$ 5,000
Removal of unsuitable material	120	cy	\$ 25	cy	\$ 3,000
Clean fill	60	cy	\$ 25	cy	\$ 1,500
Temporary asphalt pavement - sidewalk (2")	5	ton	\$ 110	ton	\$ 550
Temporary RCA Base - sidewalk (2")	5	cy	\$ 25	cy	\$ 125
Temporary "tip up" asphalt curb	20	lf	\$ 10	lf	\$ 200
New area drain (Drainage)	1	ea	\$ 4,500	ea	\$ 4,500
New 6' dia. manhole (Drainage)	3	ea	\$ 7,000	ea	\$ 21,000
New 24" RCP (Drainage)	5	lf	\$ 80	lf	\$ 400
New 30" RCP (Drainage)	36	lf	\$ 100	lf	\$ 3,600
New 29x45" Elliptical RCP (Drainage)	120	lf	\$ 500	lf	\$ 60,000
New Stormwater Treatment Structure (Hydrodynamic Separator)	2	ea	\$ 75,000	ea	\$ 150,000
New 5' x 5' bypass manhole w/ weir	1	ea	\$ 5,000	ea	\$ 5,000
New 5' x 5' junction manhole	1	ea	\$ 5,000	ea	\$ 5,000
Reconstruct block window wells	5	ea	\$ 500	ea	\$ 2,500
Remove, store & reset brick pavers (alleyway)	535	sf	\$ 15	sf	\$ 8,025
New asphalt wearing course (NYSDOT Type 6F) (1.5")	20	ton	\$ 110	ton	\$ 2,200
New asphalt binder course (NYSDOT Type 1) (2")	25	ton	\$ 110	ton	\$ 2,750
New crushed stone base (6")	35	cy	\$ 30	cy	\$ 1,050
New 6" concrete curb	75	lf	\$ 30	lf	\$ 2,250
Erosion and Sediment Controls	1	ls	\$ 3,000	ls	\$ 3,000
MPT	1	ls	\$ 5,000	ls	\$ 5,000
General conditions, bonds, insurance	1	ls	\$ 10,000	ls	\$ 10,000
Subtotal					\$ 327,025
Contingencies 20%			0.2		\$ 65,000
Total Base Construction Cost					\$ 392,025

**Village of Westhampton Beach
Main Street Improvements
Potunk Lane to Beach Road
90% Cost Opinion
7/10/2018 H2M#: WHBV1701**

Item	Quantity		Unit Price		Total	CPF REQUEST (NOTE 1)
Mobilization	1	ls	\$ 50,000	ls	\$ 50,000	\$ -
						\$ -
Sawcut existing pavement	3,050	lf	\$ 5	lf	\$ 15,250	\$ 15,250
Remove and dispose existing concrete curb	4,700	lf	\$ 10	lf	\$ 47,000	\$ 47,000
Remove and dispose existing roadway pavement	2,325	cy	\$ 25	cy	\$ 58,125	\$ 58,125
Remove and dispose existing sidewalk pavement	14,750	sf	\$ 2	sf	\$ 29,500	\$ 29,500
Remove brick furnishing zone pavers	1,900	sf	\$ 2	sf	\$ 3,800	\$ 3,800
Remove crosswalk paint at Beach Lane	225	sf	\$ 5	sf	\$ 1,125	\$ -
Remove trees	54	ea	\$ 650	ea	\$ 35,100	\$ 35,100
Remove ex CB	11	ea	\$ 800	ea	\$ 8,800	\$ 8,800
Remove ex DMH	9	ea	\$ 800	ea	\$ 7,200	\$ 7,200
Remove ex drainage piping	2,100	lf	\$ 20	ea	\$ 42,000	\$ 42,000
Remove ex drainage chamber (near Glovers Lane)	1	ea	\$ 4,000	ea	\$ 4,000	\$ 4,000
Remove ex decorative light poles and foundations	26	ea	\$ 1,000	ea	\$ 26,000	\$ 26,000
Temporary sidewalk repair (asphalt)	1,000	sf	\$ 2	sf	\$ 2,000	\$ 2,000
Temporary roadway center striping (paint)	2,700	lf	\$ 1	lf	\$ 2,700	\$ 2,700
New 10' diameter drywells w/ slab (Drainage)	13	ea	\$ 5,000	ea	\$ 65,000	\$ 65,000
New roadway catchbasin (Drainage)	25	ea	\$ 4,500	ea	\$ 112,500	\$ 112,500
New manhole (Drainage)	13	ea	\$ 3,500	ea	\$ 45,500	\$ 45,500
New 15" RCP (Drainage)	700	lf	\$ 50	lf	\$ 35,000	\$ 35,000
New 18" RCP (Drainage)	550	lf	\$ 60	lf	\$ 33,000	\$ 33,000
New 24" RCP (Drainage)	1,200	lf	\$ 70	lf	\$ 84,000	\$ 84,000
Remove and dispose temporary asphalt curb	20	lf	\$ 10	lf	\$ 200	\$ 200
Remove and dispose temporary sidewalk pavement	1,350	sf	\$ 2	sf	\$ 2,700	\$ 2,700
Sewer force main for future connection (4" PVC DR18)	215	lf	\$ 75	lf	\$ 16,125	\$ 16,125
4" PVC Conduit (PSEG)	3,825	lf	\$ 15	lf	\$ 57,375	\$ -
6" PVC Conduit (PSEG)	3,120	lf	\$ 20	lf	\$ 62,400	\$ -
New pullbox (PSEG)	19	ea	\$ 1,000	ea	\$ 19,000	\$ -
New 1 1/2" conduit (Altice)	38,876	lf	\$ 5	lf	\$ 194,380	\$ -
New fiber optic PVC conduit (Altice)	3,000	lf	\$ 10	lf	\$ 30,000	\$ -
New pullbox (Altice)	11	ea	\$ 1,000	ea	\$ 11,000	\$ -
New 1 1/2" PVC Conduit (Verizon)	145	lf	\$ 5	lf	\$ 725	\$ -
New 3" PVC Conduit (Verizon)	6,000	lf	\$ 10	lf	\$ 60,000	\$ -
New manhole (Verizon)	4	ea	\$ 5,000	ea	\$ 20,000	\$ -
New pullbox (Verizon)	13	ea	\$ 1,000	ea	\$ 13,000	\$ -
New fiber optic 2" PVC conduit (Police Cameras)	4,950	lf	\$ 7	lf	\$ 34,650	\$ -
New pullbox (Police Cameras)	31	ea	\$ 1,000	ea	\$ 31,000	\$ -
Remove, store & reset engraved pavers at theater	1,400	sf	\$ 10	sf	\$ 14,000	\$ -
Remove & replace unsuitable road base material (CPF NOTE: 375 CY for areas of new drainage)	525	cy	\$ 40	cy	\$ 21,000	\$ 15,000
New asphalt wearing course (NYSDOT Type 6F) (1.5")	1,325	ton	\$ 110	ton	\$ 145,750	\$ -

New asphalt binder course (NYSDOT Type 1) (2")	1,750	ton	\$ 110	ton	\$ 192,500	\$ -
New crushed stone base (6") (CPF NOTE: 1500 CY for areas of new drainage)	2,700	cy	\$ 30	cy	\$ 81,000	\$ 45,000
New concrete raised crosswalk	8	cy	\$ 500	cy	\$ 4,000	\$ -
New concrete sidewalk	37,000	sf	\$ 10	sf	\$ 370,000	\$ -
"ECO-RIDGE" Permeable Pavers (RB Pattern)	15,050	sf	\$ 20	sf	\$ 301,000	\$ 301,000
"ECO-RIDGE" Permeable Pavers (HB Pattern)	400	sf	\$ 25	sf	\$ 10,000	\$ 10,000
"HOLLAND STONE" Concrete Pavers (HB Pattern)	5,750	sf	\$ 15	sf	\$ 86,250	\$ -
New trees & landscaping	1	ls	\$ 305,000	ls	\$ 305,000	\$ -
Irrigation to Ground Plantings	1	ls	\$ 60,000	ls	\$ 60,000	\$ -
New flush concrete curb	2,700	lf	\$ 20	lf	\$ 54,000	\$ -
New mountable concrete curb (Roundabouts)	1,050	lf	\$ 25	lf	\$ 26,250	\$ -
New 6" concrete curb	5,450	lf	\$ 30	lf	\$ 163,500	\$ -
New concrete valley gutter	1,550	sf	\$ 10	sf	\$ 15,500	\$ -
New curb ramps	29	ea	\$ 1,200	ea	\$ 34,800	\$ -
New painted crosswalks (6'-wide)	1,050	sf	\$ 20	sf	\$ 21,000	\$ -
New paver crosswalks	900	sf	\$ 40	sf	\$ 36,000	\$ -
"Loop" Bicycle Rack	7	ea	\$ 1,250	ea	\$ 8,750	\$ -
New parking striping (white)	5,700	lf	\$ 1	lf	\$ 5,700	\$ -
New roadway center striping (yellow)	3,500	lf	\$ 1	lf	\$ 3,500	\$ -
New signage allowance	1	ls	\$ 5,000	ls	\$ 5,000	\$ -
New Decorative Street Lighting (25 poles & wiring)	1	ls	\$ 371,500	ls	\$ 371,500	\$ -
MPT (CPF Note: See Note 2)	1	ls	\$ 150,000	ls	\$ 150,000	\$ 40,500
General conditions, bonds, insurance (CPF Note: See Note 2)	1	ls	\$ 75,000	ls	\$ 75,000	\$ 20,250
Subtotal					\$ 3,821,155	\$ 1,107,250
Contingencies 20%			0.2		\$ 764,000	\$ 221,450
Total Base Construction Cost					\$ 4,585,155	\$ 1,328,700
Granite Block Curb - Option A	5,450	lf	\$ 100	lf	\$ 545,000	\$ -
Subtotal					\$ 4,202,655	\$ -
Contingencies 20%			0.2		\$ 841,000	\$ -
Total Base Construction Cost - Option A					\$ 5,043,655	\$ -

Exclusions:

- * Supply and installation of all underground utility wiring (PSEG, Altice, Verizon & Police Cameras)
- * Supply and installation of surveillance cameras
- * Removal of overhead wires and poles
- * Reconnection of all utilities to existing buildings
- * Water Main and hydrant installation / water service offsets
- * Gas Main Offsets

Notes:

1. CPF Costs are comprised of CPF eligible stormwater improvement system costs only as a subset of the overall costs associated with this portion of the Main Street Improvement Project.
2. MPT and General conditions are calculated at 27% of Total estimated MPT and General Conditions. This figure was determined by calculating total drainage related costs as percentage of total project cost. (i.e. \$1,255,800 is 27% of \$4,585,155)

Incorporated Village of Westhampton Beach

165 Mill Road, Westhampton Beach, New York 11978

Phone: (631) 288-1654 * Fax: (631) 288-4332

clerk@westhamptonbeach.org



Hon. Maria Z. Moore
Mayor

Hon. Stephen A. Frano
Hon. Rob Rubio
Hon. Brian Tymann
Hon. Ralph Urban
Trustees

Elizabeth Lindtvit
Village Clerk/Treasurer

Esseks, Hefter & Angel
Village Attorney



April 13, 2017

Mr. Brian J. Murrell
H2M Architects & Engineers
538 Broad Hollow Road
4th Floor East
Melville, NY 11747

Dear Brian:

Please be advised that the Board of Trustees of the Village of Westhampton Beach approved the following resolution at their April 13, 2017 meeting:

Accept Proposal for Engineering Design

WHEREAS, H2M has submitted a detailed proposal dated March 23, 2017 to provide professional design/bidding services related to the reconstruction of Main Street,

BE IT RESOLVED, that the Board of Trustees hereby accept the proposal submitted by H2M in the amount of \$230,000.00 to be funded from the Capital Account H9500 Roads.

If I can provide any additional information or assistance to you at this time, feel free to contact me at (631) 702-1551 or at clerk@westhamptonbeach.org.

Sincerely yours,

Elizabeth Lindtvit
Village Clerk-Treasurer



architects + engineers

538 Broad Hollow Road, 4th Floor East
Melville, NY 11747

tel 631.756.8000
fax 631.694.4122

March 23, 2017

Mayor Maria Moore, Esq
Inc. Village of Westhampton Beach
Village Hall - 165 Mill Road
Westhampton Beach, New York 11978
Attention: Mayor Moore and Village Board of Trustees

**Re: Village of Westhampton Beach
Improvements to Main Street Roadway, Drainage and Streetscape
Proposal for Professional Engineering Services
H2M Proposal No.: LP170207**

Dear Honorable Mayor Moore:

As requested, H2M architects + engineers (H2M) has prepared this proposal for professional engineering design services related to the reconstruction of the roadway, sidewalks and drainage systems along the Westhampton Beach Main Street area, between Potunk Lane and Beach Road (approximately 2,100 feet) as well as extending approximately 275 feet north of Main Street along Sunset Avenue.

Based on preliminary assessments and recommendations that H2M has provided the Village, and discussions with you, the Village Board members and Village staff, it is our understanding the Village has decided to move forward with plans for the complete reconstruction of the roadway and streetscape areas along Main Street, between Potunk Lane and Beach Road including a small portion of Sunset Avenue. The project improvements include the following:

- Replace roadway pavement, sidewalks and curbing;
- Implement traffic calming measures (i.e., provide curbed, landscaped peninsulas to define parking and pedestrian crossings, reduce existing roadway width);
- Increase sidewalk area widths, due to reduction in roadway width;
- Improve traffic safety and circulation at the Mill Road, Main Street and Library Avenue intersection by adding curb extensions to better define the intersection;
- Replace decorative street lighting along Main Street (with continued supplemental roadway lighting from existing cobra head lighting on utility poles);
- Install "dry" sanitary sewer force main across Main Street near Moneybogue Lane for future sewer district use;
- Replace drainage system between Potunk Lane and Mill Road (any improvements to drainage system directed towards Beach Lane are excluded);
- Realign drainage pipe between buildings south of Main Street which will connect to the existing 30" clay pipe to outfall;
- Implement stormwater quality improvements by either reducing the amount of runoff or treating the stormwater runoff prior to discharge into Moneybogue Canal.

Because of the Village's desire to restrict construction during the summer season (Memorial Day to Labor Day) the project is expected to be performed over two construction seasons. While H2M will not be specifying the Contractor's means and methods and phasing of this project, we anticipate that the

first construction season would focus on the removal and replacement of the drainage system and removal of the surface features (e.g. asphalt and concrete roadway section, trees, curb, sidewalk) that would be impacted by the routing of the new drainage system. During this time, public utility upgrades by the Suffolk County Water Authority and National Grid, as well as placement of the "dry" sewer force main across Main Street for the future sewer district connection could be performed. At the conclusion of the first construction season, temporary asphalt would be placed over the disturbed roadway and sidewalk areas, so that vehicular and pedestrian access would be provided within the Village during the summer months. The second construction season would involve removal of the temporary asphalt as well as the removal of the remaining roadway asphalt, curbing and sidewalk. The project would be completed with the installation of the new curbing, sidewalk, streetscape (i.e. plantings, hardscape and benches), roadway pavement and street lighting prior to Village's summer season.

Based on the above information, the following is an outline of the professional engineering services and tasks to be completed for this project:

TASK 1 - SOIL BORINGS

As part of the preparation of the design plans, specifications and contract documents, H2M will require soil borings to be performed within the roadway limits. These borings will be used to determine the soil conditions below the existing roadway section, which is necessary to design the proper asphalt pavement section, and possible inclusion of geogrid reinforcement, once the existing concrete panels have been demolished and removed. The borings will also identify the elevation of the groundwater table, which will be useful information for the contractor as they evaluate potential dewatering costs for the drainage system installation. H2M will retain a subcontractor to perform the soil boring work and will solicit several cost proposals from local geotechnical and drilling firms. H2M personnel will monitor the soil borings that are undertaken.

Since the size, depth, and number of soil borings are indeterminate at this time, we have provided an allowance for this work. The actual costs will not exceed this allowance unless unusual field conditions are encountered that would require substantial additional work. Prior to authorizing any additional work, H2M would seek further authorization from the Village.

TASK 2 - TRIBUTARY DRAINAGE ANALYSIS TO MONEYBOGUE CANAL OUTFALL

To size the replacement drainage piping that conveys stormwater runoff through the Main Street improvement area, prior to discharge through the existing outfall at Moneybogue Canal, we propose to perform a tributary drainage analysis of the contributing watershed. We will utilize the Village's Drainage Structure Maps and available historic topographic survey information for this analysis. This information will also be used in the sizing of a potential hydrodynamic separator for stormwater treatment prior to discharge into Moneybogue Canal.

TASK 3 - CONCEPTUAL STREETSCAPE, PLANTINGS & SIDEWALK LIGHTING PLAN

H2M's landscape architects and electrical engineers propose to meet with the Village to further refine the desired streetscaping, plantings and decorative lighting program within the project area. Based on feedback and comments received during this meeting, H2M would prepare conceptual renderings for two streetscaping options and one lighting option that will be suitable for a public meeting presentation. Regarding street lighting, our understanding is that the existing overhead wiring will remain along Main Street and that the existing cobra head style lighting on the utility poles will be maintained. This existing lighting provides the most roadway lighting. The proposed decorative sidewalk lighting will be set at a lower height than the existing utility pole lighting. The sidewalk lighting will be primarily used for

illuminating the pedestrian sidewalk areas and to supplement the existing street lighting. This task will also include attendance by H2M landscape architects at one public informational meeting.

TASK 4 - DESIGN/CONTRACT DOCUMENTS

H2M proposes to issue plans at the 60% and 100% milestones. The 60% progress plans will be issued to the Village for review and comment. Once comments are obtained from the Village, H2M will schedule a meeting with the Village to review and address comments. Upon resolution of the Village comments, H2M would proceed with completing 100% final design plans, specifications and contract documents for the solicitation of a public bid. The final bid set will include the following:

- Cover Sheet with project location map;
- Sheet Index and legends;
- Typical Roadway Sections;
- Existing Conditions / Removals Plan;
- Roadway Alignment Plan;
- Grading Plan and Roadway Profile Plan;
- Pavement Marking and Signage Plan;
- Sediment & Erosion Control Plan;
- Maintenance & Protection of Traffic Plan;
- Traffic Detour Plan;
- Construction Detail;
- Streetscape & Landscaping Plan;
- Decorative Lighting Plan.

The proposed work items identified on the plan sheets will include the following:

- Limits of construction;
- Removal of street trees;
- Complete removal of the existing pavement section (concrete panel with asphalt overlay);
- Complete removal and replacement of sidewalk, up to existing building frontages along Main Street;
- Curb replacement and roadway realignment, including full curb extensions at all intersections and crosswalks;
- Proposed roadway and sidewalk area grading to provide positive surface drainage away from existing Main Street building frontages;
- Driveway apron replacement in conjunction with curb and gutter replacement or as necessary;
- Handicap ramp replacement and construction at existing and new pedestrian crosswalk locations;
- Drainage improvements and replacement, including the piped connection of commercial building roof downspouts that currently discharge towards Main Street;
- Utility adjustments to avoid proposed drainage and curb realignment (if required);
- New utility strip treatment behind curb and permeable paver gutter;
- New pavement marking layout for realigned roadway and angled on-street parking;

North +
South ?

- New decorative street lighting with planter arms, including wiring, controllers, grounding and power connection;
- Specific details for the construction items including curb, pavement section, curb cuts, driveway aprons, sidewalk, permeable paver section, drainage structures and pipe and utility adjustments, etc. Standard Village details and specifications, if available, will be utilized in the preparation of the contract documents.

At the commencement of design for the project, H2M will contact the known operators of utilities in the area to advise them of the Village's intended schedule and to determine if there are any plans for replacing or upgrading their facilities on Main Street. If so, they will be advised to complete the utility upgrades in coordination with the Village construction under this program. In addition, we have included a \$8,000 allowance to coordinate with these utility operators in the event that buried utilities need to be relocated to facilitate the underground drainage construction. The surface castings of the utilities will be adjusted as necessary to meet the new roadway grades as part of the roadway improvement contract.

TASK 5 - STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

Construction activities for the project will involve land disturbance in excess of 1.0 acre in an area that may be tributary to waters of the United States (either overland or via a Village, Town, County or State storm drainage system). Therefore, the NYSDEC regulations require the preparation and filing of a Notice of Intent (NOI), Stormwater Pollution Prevention Plan (SWPPP) and a Notice of Termination (NOT) with the NYSDEC. The preparation of these documents is to be in accordance with the SPDES General Permit for Stormwater Discharges from Construction Activities (GP-0-15-002). As part of the process, the Village is required to approve the SWPPP by completing an MS4 Acceptance Form. H2M will be responsible for preparing and submitting the NOI, SWPPP and the MS4 Acceptance form, for the project. This proposal includes a line item fee for this work.

For the purposes of this proposal, we have assumed that one comprehensive SWPPP will be prepared for the entire site.

As the construction activities for this project are anticipated to potentially disturb more than 5 acres at a given time, twice weekly SWPPP inspections are required under Permit No. GP-0-15-002. We have not provided a budget amount for the NYS required, twice weekly SWPPP inspections. If the Client wishes to have H2M provide this service, it would be the subject of a separate agreement.

OK
Lic. Prof.

TASK 6-HISTORIC AND ARCHEOLOGICAL DUE DILIGENCE

Under New York State Law, sites which are subject to the requirements of the SPDES General Permit GP-0-15-002 are also subject to the State Historic Preservation Act (SHPA) screening and consultation process to identify and address potential impacts on archeological and historic resources. Construction activities that have the potential to affect historic and/or archeological resources would not be eligible for coverage under General Permit GP-0-15-002 unless the screening and consultation process has been completed and the required documentation demonstrating that potential impacts have been avoided or mitigated is obtained and maintained on site. This documentation must be in place in order to complete and submit the above-mentioned NOI.

A preliminary examination of the project area utilizing the NYSDEC Environmental Assessment Form Mapper indicates that it is located within an archeologically sensitive area. That being the case, further coordination with NYS Office of Parks, Recreation and Historic Preservation (OPRHP) or other governmental review agencies will be required in order to make a determination on potential impacts to archeologically sensitive areas, and documentation of their determination will be required.

Effort under this task will consist of the following:

- Review of the project site using the NYSDEC Environmental Assessment Form Mapper;
- Prepare maps of the project site;
- Complete a Request for State Historic Preservation Act Review form and submit, along with project maps and project description, to OPRHP and NYSDEC to elicit a determination.

This proposal assumes that OPRHP will issue a Letter of No Impact in response to the Request for State Historic Preservation Act Review form. The preparation of additional documentation and/or the conducting of archeological studies, as may be requested by OPRHP in response to the Request for State Historic Preservation Act Review, are not included as part of this proposal.

TASK 7 - BIDDING

Once the construction documents are completed and upon authorization by the Village, H2M will furnish 15 sets of bid documents to the Village for distribution to prospective bidders. The Village will arrange for the project to be advertised. H2M will prepare the Notice to Bidders, assist the Village in soliciting bids, respond to contractor RFI's, attend the bid opening, review and tabulate the bids, verify the contractors' references and work experience and make a recommendation to the Board of Trustees for award of the construction contract.

CONSTRUCTION ADMINISTRATION / OBSERVATION

With a project of this magnitude, construction administration and observation services will likely be required. H2M can provide these services, and if desired, will present a separate proposal to the Village once the project construction start date and level of needed assistance is further defined.

ADDITIONAL SERVICES

The Scope of Services outlined above generally represents the work anticipated to prepare the plans, specifications and bid documents for the Village. The basic services listed above do not include the following services which may be required or requested on this project, and which, if needed, will be provided as additional services:

- The fees outlined herein are based on providing a complete set of plans for bidding by the Village. If engineering revisions are required after we have commenced engineering drawings, as a result of concept changes requested by the Village or the reviewing agencies, these revisions will be considered as additional services to be performed under an amended agreement. If this situation occurs, we will immediately notify you to establish a clear understanding of our status in this regard;
- NYSDEC, Army Corps of Engineers, Department of State permitting plans and applications;
- Utility relocation plans within the project limits, including design of relocated utility poles;
- Changes to the power supply design for the decorative street lighting due to the elimination of the utility poles along Main Street;
- Changes to the overall street and sidewalk illumination design, due to the elimination of utility poles containing cobra head style lighting;

Mayor Maria Moore, Esq.
H2M Proposal No.: LP170207
March 23, 2017
Page 6 of 7

- Design of water supply for automatic irrigation option of decorative light poles with hanging planter arms;
- Short and Long Form Environmental Assessment Form, Environmental studies, Environmental Impact Statement, permitting and/or SEQRA process;
- Archaeological studies and reports; visual impact studies, reports or graphics;
- Providing construction administration and observation services;
- Preparation of construction staging plans;
- Preparation of easement mapping and descriptions;
- Land surveying and as-built survey services;
- Traffic studies and traffic engineering services.

FEE PROPOSAL

H2M proposes to complete the above services in accordance with the following lump sum fee schedule.

Task 1-Soil Boring / Pavement Recommendation	\$ 15,000 (allowance)
Task 2-Drainage Tributary to Ex. Box Culvert	\$ 9,500 (lump sum)
Task 3-Streetscape / Pedestrian Lighting Concepts	\$ 27,000 (lump sum)
Task 4-Design/Contract Documents	\$149,500 (lump sum)
Tasks 5 & 6-SWPPP & initial OPRHP submission	\$ 8,000 (lump sum)
Task 7-Bidding	\$ 5,000 (lump sum)
Utility Coordination Assistance	\$ 8,000 (allowance)
Reimbursable Expenses (Printing)	\$ 1,000 (estimated fee)
Meetings (beyond those noted under Task 3)	\$ 7,000 (estimated fee)
Total	\$230,000

OPINION OF PROBABLE COST

Based on a review of the street and project scope, our preliminary opinion of probable cost for this project is approximately \$4,900,000. This estimate includes a 20% contingency.

Our opinion of probable construction cost will be refined during the design phase once the bearing capacity of the underlying soils is determined from the geotechnical investigation, as there may be a need for geogrid reinforcement. Another area which may impact the cost opinion is the extent of streetscaping, landscaping and lighting amenities which need to be programmatically defined and developed.

We trust that this proposal meets your requirements. If there are questions concerning any aspect of this proposal, please contact our office. We are available to meet with you and other Village officials, as required. We appreciate the opportunity to submit this proposal and look forward to working with the Village on this project. If you find this proposal acceptable, please sign the enclosed proposal statement and forward one copy to our office, authorizing us to proceed with the design.

If there are any questions, please contact the undersigned at 631-756-8000 ext. 1719.

Mayor Maria Moore, Esq.
H2M Proposal No.: LP170207
March 23, 2017
Page 7 of 7



Very truly yours,

H2M architects + engineers

A handwritten signature in cursive script that reads "Brian J. Murrell".

Brian J. Murrell
Senior Discipline Engineer
Civil Engineering Division

cc: FMR - H2M
MWK - H2M

Enclosure: Exhibit 1 – Limits of Project
Proposal Statement

J:\LPS\01 Melville\017100 Civil Engineering\Roadway Improvement\Westhampton Beach Village\LP170207 Main Street Roadway and Drainage Design\LP170207 Proposal.docx

SPL ERROR - IllegalMediaSize

POSITION : 0x2e95bc (3052988)

SYSTEM : h6fw_5.61/xl_tbl

LINE : 743

VERSION : SPL 5.61 06-13-2012



538 Broad Hollow Road, 4th Floor East
Melville, NY 11747 | tel 631.756.8000

July 11, 2018

**Re: Incorporated Village of Westhampton Beach
Main Street Improvement
EPA's Spreadsheet Tool for Evaluating Pollutant Load (STEPL)
H2M Project No.: WHBV 1701**

In connection to the above referenced project, H2M architects + engineers (H2M) utilized the EPA's Spreadsheet Tool for Evaluating Pollutant Load (STEPL) to calculate the anticipated pollutant load reduction by the Best Management Practices (BMPs) proposed for the Main Street improvements.

The primary BMP water quality proposed (Contech Vortechs® stormwater treatment system) is a hydrodynamic separator (Oil/Grit Separator in STEPL) designed to enhance gravitational separation of floating and settleable materials from stormwater flows.

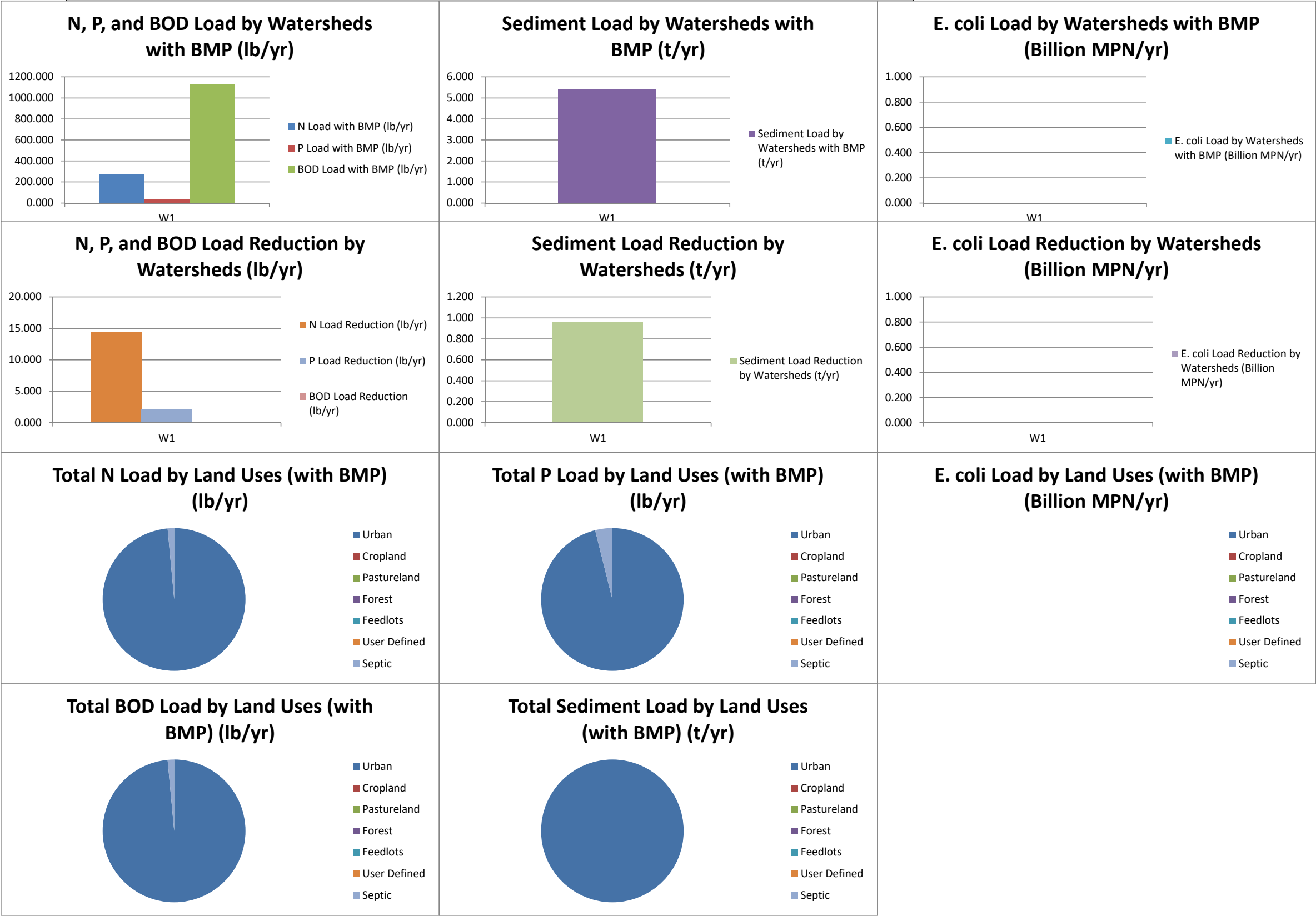
The STEPL calculations are based on the following assumptions for the watershed area tributary to the Oil/Grit Separator:

- Watershed Area: 44.25 acres;
- Constituent Land uses:
 - 33.53% Commercial;
 - 13.15% Institutional;
 - 13.31% Transportation (roadways);
 - 2.00% Multi-Family;
 - 23.90% Single-Family;
 - 5.40% Vacant; and
 - 8.71% Open Space
- Estimated 55 septic systems within the watershed, with an average population of 3 persons and a Septic Failure Rate of 0.19%.

Based on the STEPL calculations, a sediment reduction of 1 ton per year is anticipated due to the Oil/Grit separator. Total pollutant load summary charts and graphs output from STEPL are attached.

It should be noted that the calculated pollutant load reductions resulting from the Main Street Improvements do not take into consideration other BMPs proposed with this project, namely proposed sections of porous pavement and new drywells. These additional BMPs will be installed upstream of the oil/grit separator. The STEPL tool does not provide for calculating BMPs in series. Therefore, only the primary BMP was considered for calculating the anticipated pollutant reduction. However, these additional BMPs will provide pre-treatment of stormwater runoff and will result in additional pollutant reduction over and above that provided by the oil/grit separator alone.

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1. Total load by subwatershed(s)																				
Watershed	N Load (no BMP)	P Load (no BMP)	BOD Load (no BMP)	Sediment Load (no BMP)	E. coli Load (no BMP)	N Reduction	P Reduction	BOD Reduction	Sediment Reduction	E. coli Reduction	N Load (with BMP)	P Load (with BMP)	BOD (with BMP)	Sediment Load (with BMP)	E. coli Load (with BMP)	%N Reduction	%P Reduction	%BOD Reduction	%Sed Reduction	%E. coli Reduction
	lb/year	lb/year	lb/year	t/year	Billion MPN/yr	lb/year	lb/year	lb/year	t/year	Billion MPN/yr	lb/year	lb/year	lb/year	t/year	Billion MPN/yr	%	%	%	%	%
W1	292.8	42.5	1128.3	6.4	0.0	14.4	2.0	0.0	1.0	0.0	278.4	40.5	1128.3	5.4	0.0	4.9	4.8	0.0	15.0	0.0
Total	292.8	42.5	1128.3	6.4	0.0	14.4	2.0	0.0	1.0	0.0	278.4	40.5	1128.3	5.4	0.0	4.9	4.8	0.0	15.0	0.0

2. Total load by land uses (with BMP)					
Sources	N Load (lb/yr)	P Load (lb/yr)	BOD Load (lb/yr)	Sediment Load (t/yr)	E. coli Load (Billion MPN/yr)
Urban	274.34	38.89	1111.93	5.41	0.00
Cropland	0.00	0.00	0.00	0.00	0.00
Pastureland	0.00	0.00	0.00	0.00	0.00
Forest	0.00	0.00	0.00	0.00	0.00
Feedlots	0.00	0.00	0.00	0.00	0.00
User Defined	0.00	0.00	0.00	0.00	0.00
Septic	4.01	1.57	16.38	0.00	0.00
Gully	0.00	0.00	0.00	0.00	0.00
Streambank	0.00	0.00	0.00	0.00	0.00
Groundwater	0.00	0.00	0.00	0.00	0.00
Total	278.35	40.46	1128.30	5.41	0.00

Water Index Number	Waterbody Name (WI/PWL ID)	County	Type	Class	Cause/Pollutant	Suspected Source	Year
Part 1 - Individual Waterbody Segments with Impairment Requiring TMDL Development (cont.)							
<u>Atlantic Ocean/Long Island Sound Drainage Basin (con't)</u>							
(MW3.4) LIS (portion 2c)	Milton Harbor (1702-0063)	Westchester	Estuary	SB	Floatables	Urb/Storm, Municipl	2002
(MW3.4) LIS (portion 2c)	Milton Harbor (1702-0063)	Westchester	Estuary	SB	Pathogens	Urb/Storm, Municipl	2002
(MW3.4) LIS-11	Blind Brook, Lower (1702-0062)	Westchester	River	SC	Silt/Sediment	Urb/Storm Runoff	2002
(MW3.4) LIS-11	Blind Brook, Upper, and tribs (1702-0130)	Westchester	River	C	Silt/Sediment	Urb/Storm Runoff	2002
(MW3.6) LIS (portion 2d)	Port Chester Harbor (1702-0260)	Westchester	Estuary	SB	Floatables	Urb/Storm, Municipl	2002
(MW3.6) LIS (portion 2d)	Port Chester Harbor (1702-0260)	Westchester	Estuary	SB	Pathogens	Urb/Storm, Municipl	2002
(MW3.6) LIS-13	Byram River, Lower (1702-0132)	Westchester	Estuary	SC	Pathogens	Onsite WTS, Urb Runoff	2004
(MW4.2b) LIS-MB (portion 2)	Manhasset Bay, and tidal tribs (1702-0141)	Nassau	Estuary	SB	Pathogens	Urb/Storm Runoff	2002
(MW4.3a) LIS-HH	Hempstead Harbor, south, & tidal tribs (1702-0263)	Nassau	Estuary	SB	Pathogens	Urb/Storm Runoff	2002
(MW4.4a) LIS-OBH-MNC-45-P150a	Beaver Lake (1702-0152)	Nassau	Lake	C	Phosphorus	Urban/Storm Runoff	2012
(MW5.3) LIS-62-P296	Millers Pond (1702-0013)	Suffolk	Lake	C	Phosphorus/Low D.O. ²	Urban/Storm Runoff	2002
(MW5.4c) LIS (portion 5)	Long Island Sound, Suffolk Co, Central (1702-0265)	Suffolk	Estuary	SA	Pathogens	Urban/Storm Runoff	2012
(MW6.1d) GB..GPB-P495	Mattituck/Marratooka Pond (1701-0129)	Suffolk	Lake	A	Phosphorus/Low D.O. ²	Other (in-lake recycling)	2002
(MW7.1b) AO-P815	Agawam Lake (1701-0117)	Suffolk	Lake	C	Phosphorus/Low D.O. ²	Onsite WTS, Urb Runoff	2008
(MW7.1b) AO-SB	Shinnecock Bay and Inlet (1701 0033) ¹¹	Suffolk	Estuary	SA	Nitrogen	Onsite WTS, Urb Runoff	2010
(MW7.1c) AO-QB	Quantuck Bay (1701-0042) ¹¹	Suffolk	Estuary	SA	Nitrogen/Low D.O. ²	Onsite WTS, Urb Runoff	2010
(MW7.2a) AO-MB (portion 1)	Moriches Bay, East (1701-0305) ¹¹	Suffolk	Estuary	SA	Nitrogen/Low D.O. ²	Onsite WTS, Urb Runoff	2010
(MW7.2a) AO-MB (portion 2)	Moriches Bay, West (1701-0038) ¹¹	Suffolk	Estuary	SA	Nitrogen/Low D.O. ²	Onsite WTS, Urb Runoff	2010
(MW7.2a) AO-MB-168a thru 175	Tidal Tribs to West Moriches Bay (1701-0312) ¹²	Suffolk	Estuary	SC	Pathogens	Urban/Storm, Agric,OWTS	2006
(MW7.2a) AO-MB-168a thru 175	* Tidal Tribs to West Moriches Bay (1701-0312) ¹²	Suffolk	Estuary	SC	Nitrogen/Low D.O. ²	Urban/Storm, Agric,OWTS	2006
(MW7.3) AO GSB (portion 1)	+ Great South Bay, East (1701-0039) ¹¹	Suffolk	Estuary	SA	Nitrogen/Low D.O. ²	Onsite WTS, Urb Runoff	2010
(MW7.3) AO GSB (portion 2)	+ Great South Bay, Middle (1701-0040) ¹¹	Suffolk	Estuary	SA	Nitrogen/Low D.O. ²	Onsite WTS, Urb Runoff	2010
(MW7.3) AO GSB (portion 3)	+ Great South Bay, West (1701-0173) ¹¹	Suffolk	Estuary	SA	Nitrogen/Low D.O. ²	Onsite WTS, Urb Runoff	2010
(MW7.5) AO-GSB-185-P889	Canaan Lake (1701-0018)	Suffolk	Lake	B(T)	Phosphorus	Urban/Storm Runoff	2002
(MW7.5) AO-GSB-185-P889	Canaan Lake (1701-0018)	Suffolk	Lake	B(T)	Silt/Sediment	Urban/Storm Runoff	2002
(MW7.7) AO-GSB-193..P304	+ Lake Ronkonkoma (1701-0020)	Suffolk	Lake	B	Pathogens	Urban/Storm Runoff	2002
(MW7.7) AO-GSB-193..P304	+ Lake Ronkonkoma (1701-0020)	Suffolk	Lake	B	Phosphorus	Urban/Storm Runoff	2002
(MW7.8) AO-GSB-194	Champlin Creek, Upper, and tribs (1701-0019)	Suffolk	River	C(TS)	Thermal Changes	Urban/Storm Runoff	2002
(MW8.1a) AO-SOB-216 thru 219	Tidal Tribs to South Oyster Bay (1701-0200)	Nassau	Estuary	SC	Pathogens	Urban/Storm Runoff	2012

¹¹ Other tributary embayments to these larger waters (e.g., **Penniman Creek**, Nicoll Bay, Patchogue Bay, **Bellport Bay**) are also considered to be included within these listings and will be addressed in the TMDL/Watershed Strategy for the larger waterbodies.

¹² Includes Upper Forge River, which is the trib of primary concern. The Lower Forge River is included in *Part 2c - Shellfishing Waters* portion of the list.

From: Holdridge, Lorraine A (DEC) <lorraine.holdridge@dec.ny.gov>
Sent: Tuesday, April 17, 2018 1:09 PM
To: Maria Moore <mayormoore@westhamptonbeach.org>; christopher.gobler@stonybrook.edu
Cc: Van Patten, Susan E (DEC) <susan.vanpatten@dec.ny.gov>; Rickard, Sarah E (DEC) <sarah.rickard@dec.ny.gov>
Subject: RE: NYS List of Impaired Water Bodies

Hello Mayor Moore,

It was a pleasure speaking with you this afternoon.

Regarding your question on the “impaired” status of Moniebogue Bay, the 303(d) List of Impaired waters (http://www.dec.ny.gov/docs/water_pdf/303dListfinal2016.pdf) specifically calls out (Part 1, page 9), Shinnecock Bay, Quantuck Bay and Moriches Bays as being impaired with the cause/pollutant being nitrogen/Low DO with a suspected source from onsite WTS and/or urban runoff AND these waters are footnoted with the following: “Other tributary embayments to these larger waters (e.g., Penniman Creek, Nicoll Bay, Patchogue Bay, Bellport Bay) are also considered to be included within these listings and will be addressed in the TMDL/Watershed Strategy for the larger waterbodies.”

This information is on page 9 of the 303(d) list. So, while Moniebogue Bay is not specifically called out on Part 1, footnote 11 indicates that tributary embayments to the specifically listed waters are also considered to be listed on Part 1. Since Moniebogue Bay is tributary to both Shinnecock and Quantuck Bays, it is clear that it is listed per footnote 11 as being impaired by nitrogen pollution resulting in low dissolved oxygen which impairs a waters minimum best use for fish propagation and survival and that the primary suspects source of that pollution is from onsite septic systems. I do not see Moniebogue Bay as being listed as being impaired by pathogens (it is not on Part 2c)

If you have any questions regarding this listing, or the footnote beyond this, please contact Sarah Richard at 518-402-8155

Have a great day and thank you for your support of water quality!

Lorraine Holdridge, P.E.

Environmental Engineer II, Division of Water

New York State Department of Environmental Conservation

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Full Environmental Assessment Form
Part 1 - Project and Setting

Instructions for Completing Part 1

Part 1 is to be completed by the applicant or project sponsor. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification.

Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information; indicate whether missing information does not exist, or is not reasonably available to the sponsor; and, when possible, generally describe work or studies which would be necessary to update or fully develop that information.

Applicants/sponsors must complete all items in Sections A & B. In Sections C, D & E, most items contain an initial question that must be answered either "Yes" or "No". If the answer to the initial question is "Yes", complete the sub-questions that follow. If the answer to the initial question is "No", proceed to the next question. Section F allows the project sponsor to identify and attach any additional information. Section G requires the name and signature of the project sponsor to verify that the information contained in Part 1 is accurate and complete.

A. Project and Sponsor Information.

Name of Action or Project: Village of Westhampton Beach Main Street Roadway, Drainage and Streetscape Improvement Project		
Project Location (describe, and attach a general location map): Main Street R-O-W between Potunk Avenue and Beach Lane		
Brief Description of Proposed Action (include purpose or need): The project improvements include the following in order to upgrade the existing streetscape, stormwater management, and public health and safety associated with Main Street: Replace roadway pavement, sidewalks and curbing; Implement traffic calming measures (i.e., provide curbed, landscaped peninsulas to define parking and pedestrian crossings, reduce existing roadway width); Increase sidewalk area widths, due to reduction in roadway width; Improve traffic safety and circulation at the Mill Road, Main Street and Library Avenue intersection by adding curb extensions to better define the intersection; Relocate existing overhead utility lines underground; Replace decorative street lighting along Main Street (with continued supplemental roadway lighting from existing cobra head lighting on utility poles); Install "dry" sanitary sewer force main across Main Street near Moneybogue Lane for future sewer district use; Replace drainage system between Potunk Lane and Mill Road (any improvements to drainage system directed towards Beach Lane are excluded); Realign drainage pipe between buildings south of Main Street which will connect to the existing 30" clay pipe to outfall; Implement stormwater quality improvements by either reducing the amount of runoff or treating the stormwater runoff prior to discharge into Moneybogue Canal.		
Name of Applicant/Sponsor: Village of Westhampton Beach		Telephone: 631-288-1654
		E-Mail: info@westhamptonbeach.org
Address: 165 Mill Road,		
City/PO: Westhampton Beach	State: NY	Zip Code: 11978
Project Contact (if not same as sponsor; give name and title/role): Mayor Maria Z. Moore		Telephone: 631-288-1654
		E-Mail: Mayormoore@westhamptonbeach.org
Address: 165 Mill Road,		
City/PO: Westhampton Beach	State: NY	Zip Code: NY
Property Owner (if not same as sponsor): Same as above		Telephone:
		E-Mail:
Address:		
City/PO:	State:	Zip Code:

B. Government Approvals

B. Government Approvals, Funding, or Sponsorship. ("Funding" includes grants, loans, tax relief, and any other forms of financial assistance.)

Government Entity	If Yes: Identify Agency and Approval(s) Required	Application Date (Actual or projected)
a. City Council, Town Board, ☒ Yes ☐ No or Village Board of Trustees	Village Board of Trustees	Summer 2018
b. City, Town or Village ☐ Yes ☒ No Planning Board or Commission		
c. City Council, Town or ☐ Yes ☒ No Village Zoning Board of Appeals		
d. Other local agencies ☐ Yes ☒ No		
e. County agencies ☐ Yes ☒ No		
f. Regional agencies ☐ Yes ☒ No		
g. State agencies ☒ Yes ☐ No	NYS DEC SPDD's and Tidal Wetlands	Summer 2018
h. Federal agencies ☐ Yes ☐ No		
i. Coastal Resources.		
i. Is the project site within a Coastal Area, or the waterfront area of a Designated Inland Waterway?		☒ Yes ☐ No
ii. Is the project site located in a community with an approved Local Waterfront Revitalization Program?		☐ Yes ☒ No
iii. Is the project site within a Coastal Erosion Hazard Area?		☐ Yes ☒ No

C. Planning and Zoning

C.1. Planning and zoning actions.

Will administrative or legislative adoption, or amendment of a plan, local law, ordinance, rule or regulation be the only approval(s) which must be granted to enable the proposed action to proceed? ☐ Yes ☒ No

- If Yes, complete sections C, F and G.
- If No, proceed to question C.2 and complete all remaining sections and questions in Part 1

C.2. Adopted land use plans.

a. Do any municipally- adopted (city, town, village or county) comprehensive land use plan(s) include the site where the proposed action would be located? ☒ Yes ☐ No

If Yes, does the comprehensive plan include specific recommendations for the site where the proposed action would be located? ☒ Yes ☐ No

b. Is the site of the proposed action within any local or regional special planning district (for example: Greenway Brownfield Opportunity Area (BOA); designated State or Federal heritage area; watershed management plan; or other?) ☐ Yes ☒ No

If Yes, identify the plan(s):

c. Is the proposed action located wholly or partially within an area listed in an adopted municipal open space plan, or an adopted municipal farmland protection plan? ☐ Yes ☒ No

If Yes, identify the plan(s):

C.3. Zoning

a. Is the site of the proposed action located in a municipality with an adopted zoning law or ordinance. ☒ Yes ☐ No
If Yes, what is the zoning classification(s) including any applicable overlay district?
Business 1 District (B1)

b. Is the use permitted or allowed by a special or conditional use permit? ☒ Yes ☐ No

c. Is a zoning change requested as part of the proposed action? ☐ Yes ☒ No
If Yes,

i. What is the proposed new zoning for the site? _____

C.4. Existing community services.

a. In what school district is the project site located? Westhampton Beach

b. What police or other public protection forces serve the project site?

Village of Westhampton Beach Police Department

c. Which fire protection and emergency medical services serve the project site?

Westhampton Beach Fire District, and Ambulance District

d. What parks serve the project site?

The Village Green, and the Great Lawn.

D. Project Details

D.1. Proposed and Potential Development

a. What is the general nature of the proposed action (e.g., residential, industrial, commercial, recreational; if mixed, include all components)? Street improvements within a central business district

b. a. Total acreage of the site of the proposed action? 4.5 acres

b. Total acreage to be physically disturbed? 4.5 acres

c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 10+ acres

c. Is the proposed action an expansion of an existing project or use? ☐ Yes ☒ No

i. If Yes, what is the approximate percentage of the proposed expansion and identify the units (e.g., acres, miles, housing units, square feet)? % _____ Units: _____

d. Is the proposed action a subdivision, or does it include a subdivision? ☐ Yes ☒ No

If Yes,

i. Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types)

ii. Is a cluster/conservation layout proposed? ☐ Yes ☐ No

iii. Number of lots proposed? _____

iv. Minimum and maximum proposed lot sizes? Minimum _____ Maximum _____

e. Will proposed action be constructed in multiple phases? ☒ Yes ☐ No

i. If No, anticipated period of construction: _____ months

ii. If Yes:

• Total number of phases anticipated 2

• Anticipated commencement date of phase 1 (including demolition) 3 month _____ year

• Anticipated completion date of final phase 3 month _____ year

• Generally describe connections or relationships among phases, including any contingencies where progress of one phase may determine timing or duration of future phases: _____

First phase: removal and replacement of the drainage system and removal of the surface features, and perform public utility upgrades. Second phase: the installation of the new curbing, sidewalk, streetscape (i.e. plantings, hardscape and benches), roadway pavement and street lighting.

f. Does the project include new residential uses? ☐ Yes ☒ No				
If Yes, show numbers of units proposed.				
	<u>One Family</u>	<u>Two Family</u>	<u>Three Family</u>	<u>Multiple Family (four or more)</u>
Initial Phase	_____	_____	_____	_____
At completion of all phases	_____	_____	_____	_____

g. Does the proposed action include new non-residential construction (including expansions)? ☐ Yes ☒ No	
If Yes,	
i. Total number of structures _____	
ii. Dimensions (in feet) of largest proposed structure: _____ height; _____ width; and _____ length	
iii. Approximate extent of building space to be heated or cooled: _____ square feet	

h. Does the proposed action include construction or other activities that will result in the impoundment of any liquids, such as creation of a water supply, reservoir, pond, lake, waste lagoon or other storage? ☐ Yes ☒ No	
If Yes,	
i. Purpose of the impoundment: _____	
ii. If a water impoundment, the principal source of the water: ☐ Ground water ☐ Surface water streams ☐ Other specify: _____	
iii. If other than water, identify the type of impounded/contained liquids and their source. _____	
iv. Approximate size of the proposed impoundment. Volume: _____ million gallons; surface area: _____ acres	
v. Dimensions of the proposed dam or impounding structure: _____ height; _____ length	
vi. Construction method/materials for the proposed dam or impounding structure (e.g., earth fill, rock, wood, concrete): _____	

D.2. Project Operations

a. Does the proposed action include any excavation, mining, or dredging, during construction, operations, or both? (Not including general site preparation, grading or installation of utilities or foundations where all excavated materials will remain onsite) ☐ Yes ☒ No	
If Yes:	
i. What is the purpose of the excavation or dredging? _____	
ii. How much material (including rock, earth, sediments, etc.) is proposed to be removed from the site?	
• Volume (specify tons or cubic yards): _____	
• Over what duration of time? _____	
iii. Describe nature and characteristics of materials to be excavated or dredged, and plans to use, manage or dispose of them. _____	
iv. Will there be onsite dewatering or processing of excavated materials? ☐ Yes ☐ No	
If yes, describe. _____	
v. What is the total area to be dredged or excavated? _____ acres	
vi. What is the maximum area to be worked at any one time? _____ acres	
vii. What would be the maximum depth of excavation or dredging? _____ feet	
viii. Will the excavation require blasting? ☐ Yes ☐ No	
ix. Summarize site reclamation goals and plan: _____	

b. Would the proposed action cause or result in alteration of, increase or decrease in size of, or encroachment into any existing wetland, waterbody, shoreline, beach or adjacent area? ☐ Yes ☒ No	
If Yes:	
i. Identify the wetland or waterbody which would be affected (by name, water index number, wetland map number or geographic description): _____	

ii. Describe how the proposed action would affect that waterbody or wetland, e.g. excavation, fill, placement of structures, or alteration of channels, banks and shorelines. Indicate extent of activities, alterations and additions in square feet or acres:

iii. Will proposed action cause or result in disturbance to bottom sediments? ☐ Yes ☐ No
If Yes, describe: _____

iv. Will proposed action cause or result in the destruction or removal of aquatic vegetation? ☐ Yes ☐ No
If Yes:

- acres of aquatic vegetation proposed to be removed: _____
- expected acreage of aquatic vegetation remaining after project completion: _____
- purpose of proposed removal (e.g. beach clearing, invasive species control, boat access): _____
- proposed method of plant removal: _____
- if chemical/herbicide treatment will be used, specify product(s): _____

v. Describe any proposed reclamation/mitigation following disturbance: _____

c. Will the proposed action use, or create a new demand for water? ☐ Yes ☒ No
If Yes:

i. Total anticipated water usage/demand per day: _____ gallons/day

ii. Will the proposed action obtain water from an existing public water supply? ☐ Yes ☐ No
If Yes:

- Name of district or service area: _____
- Does the existing public water supply have capacity to serve the proposal? ☐ Yes ☐ No
- Is the project site in the existing district? ☐ Yes ☐ No
- Is expansion of the district needed? ☐ Yes ☐ No
- Do existing lines serve the project site? ☐ Yes ☐ No

iii. Will line extension within an existing district be necessary to supply the project? ☐ Yes ☐ No
If Yes:

- Describe extensions or capacity expansions proposed to serve this project: _____
- Source(s) of supply for the district: _____

iv. Is a new water supply district or service area proposed to be formed to serve the project site? ☐ Yes ☐ No
If Yes:

- Applicant/sponsor for new district: _____
- Date application submitted or anticipated: _____
- Proposed source(s) of supply for new district: _____

v. If a public water supply will not be used, describe plans to provide water supply for the project: _____

vi. If water supply will be from wells (public or private), maximum pumping capacity: _____ gallons/minute.

d. Will the proposed action generate liquid wastes? ☐ Yes ☒ No
If Yes:

i. Total anticipated liquid waste generation per day: _____ gallons/day

ii. Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial; if combination, describe all components and approximate volumes or proportions of each): _____

iii. Will the proposed action use any existing public wastewater treatment facilities? ☐ Yes ☒ No
If Yes:

- Name of wastewater treatment plant to be used: _____
- Name of district: _____
- Does the existing wastewater treatment plant have capacity to serve the project? ☐ Yes ☐ No
- Is the project site in the existing district? ☐ Yes ☐ No
- Is expansion of the district needed? ☐ Yes ☐ No

• Do existing sewer lines serve the project site? _____ • Will line extension within an existing district be necessary to serve the project? _____ If Yes: • Describe extensions or capacity expansions proposed to serve this project: _____	☐ Yes ☐ No ☐ Yes ☐ No	
iv. Will a new wastewater (sewage) treatment district be formed to serve the project site? _____ If Yes: • Applicant/sponsor for new district: _____ • Date application submitted or anticipated: _____ • What is the receiving water for the wastewater discharge? _____	☐ Yes ☐ No	
v. If public facilities will not be used, describe plans to provide wastewater treatment for the project, including specifying proposed receiving water (name and classification if surface discharge, or describe subsurface disposal plans): _____		
vi. Describe any plans or designs to capture, recycle or reuse liquid waste: _____		
e. Will the proposed action disturb more than one acre and create stormwater runoff, either from new point sources (i.e. ditches, pipes, swales, curbs, gutters or other concentrated flows of stormwater) or non-point source (i.e. sheet flow) during construction or post construction? _____ If Yes: i. How much impervious surface will the project create in relation to total size of project parcel? _____ Square feet or _____ 3.5 acres (impervious surface) _____ Square feet or _____ 4.5 acres (parcel size) ii. Describe types of new point sources. <u>N/A The will not create new point sources but is to make improvement to existing conditions, which will reduce the amount of pervious surfaces.</u> iii. Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent properties, groundwater, on-site surface water or off-site surface waters)? <u>Upgraded stormwater management facilities</u> • If to surface waters, identify receiving water bodies or wetlands: _____ <u>Moneybogue Canal - upgrade existing outfall with a new hydrodynamic separator for stormwater treatment prior to discharge into Moneybogue Canal</u> • Will stormwater runoff flow to adjacent properties? _____	☒ Yes ☐ No ☐ Yes ☒ No	
iv. Does proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater? _____	☒ Yes ☐ No	
f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel combustion, waste incineration, or other processes or operations? _____ If Yes, identify: i. Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles) _____ ii. Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers) _____ iii. Stationary sources during operations (e.g., process emissions, large boilers, electric generation) _____	☐ Yes ☒ No	
g. Will any air emission sources named in D.2.f (above), require a NY State Air Registration, Air Facility Permit, or Federal Clean Air Act Title IV or Title V Permit? _____ If Yes: i. Is the project site located in an Air quality non-attainment area? (Area routinely or periodically fails to meet ambient air quality standards for all or some parts of the year) _____ ii. In addition to emissions as calculated in the application, the project will generate: • _____ Tons/year (short tons) of Carbon Dioxide (CO₂) • _____ Tons/year (short tons) of Nitrous Oxide (N₂O) • _____ Tons/year (short tons) of Perfluorocarbons (PFCs) • _____ Tons/year (short tons) of Sulfur Hexafluoride (SF₆) • _____ Tons/year (short tons) of Carbon Dioxide equivalent of Hydrofluorocarbons (HFCs) • _____ Tons/year (short tons) of Hazardous Air Pollutants (HAPs)		☐ Yes ☒ No ☐ Yes ☐ No

h. Will the proposed action generate or emit methane (including, but not limited to, sewage treatment plants, landfills, composting facilities)? ☐ Yes ☒ No

If Yes:

i. Estimate methane generation in tons/year (metric): _____

ii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion to generate heat or electricity, flaring): _____

i. Will the proposed action result in the release of air pollutants from open-air operations or processes, such as quarry or landfill operations? ☐ Yes ☒ No

If Yes: Describe operations and nature of emissions (e.g., diesel exhaust, rock particulates/dust): _____

j. Will the proposed action result in a substantial increase in traffic above present levels or generate substantial new demand for transportation facilities or services? ☐ Yes ☒ No

If Yes:

i. When is the peak traffic expected (Check all that apply): ☐ Morning ☐ Evening ☐ Weekend
☐ Randomly between hours of _____ to _____.

ii. For commercial activities only, projected number of semi-trailer truck trips/day: _____

iii. Parking spaces: Existing _____ Proposed _____ Net increase/decrease _____

iv. Does the proposed action include any shared use parking? ☐ Yes ☐ No

v. If the proposed action includes any modification of existing roads, creation of new roads or change in existing access, describe: _____

vi. Are public/private transportation service(s) or facilities available within ½ mile of the proposed site? ☐ Yes ☐ No

vii. Will the proposed action include access to public transportation or accommodations for use of hybrid, electric or other alternative fueled vehicles? ☐ Yes ☐ No

viii. Will the proposed action include plans for pedestrian or bicycle accommodations for connections to existing pedestrian or bicycle routes? ☐ Yes ☐ No

k. Will the proposed action (for commercial or industrial projects only) generate new or additional demand for energy? ☐ Yes ☒ No

If Yes:

i. Estimate annual electricity demand during operation of the proposed action: _____

ii. Anticipated sources/suppliers of electricity for the project (e.g., on-site combustion, on-site renewable, via grid/local utility, or other): _____

iii. Will the proposed action require a new, or an upgrade to, an existing substation? ☐ Yes ☐ No

l. Hours of operation. Answer all items which apply.

i. During Construction: • Monday - Friday: _____ 7am - 4pm • Saturday: _____ • Sunday: _____ • Holidays: _____	ii. During Operations: • Monday - Friday: _____ continuous • Saturday: _____ continuous • Sunday: _____ continuous • Holidays: _____ continuous
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m. Will the proposed action produce noise that will exceed existing ambient noise levels during construction, operation, or both? ☐ Yes ☒ No If yes: i. Provide details including sources, time of day and duration: _____	
ii. Will proposed action remove existing natural barriers that could act as a noise barrier or screen? ☐ Yes ☒ No Describe: _____	
n. Will the proposed action have outdoor lighting? ☒ Yes ☐ No If yes: i. Describe source(s), location(s), height of fixture(s), direction/aim, and proximity to nearest occupied structures: Replace existing street lights that are dark sky compliant	
ii. Will proposed action remove existing natural barriers that could act as a light barrier or screen? ☐ Yes ☒ No Describe: _____	
o. Does the proposed action have the potential to produce odors for more than one hour per day? ☐ Yes ☒ No If Yes, describe possible sources, potential frequency and duration of odor emissions, and proximity to nearest occupied structures: _____	
p. Will the proposed action include any bulk storage of petroleum (combined capacity of over 1,100 gallons) or chemical products 185 gallons in above ground storage or any amount in underground storage? ☐ Yes ☒ No If Yes: i. Product(s) to be stored _____ ii. Volume(s) _____ per unit time _____ (e.g., month, year) iii. Generally describe proposed storage facilities: _____	
q. Will the proposed action (commercial, industrial and recreational projects only) use pesticides (i.e., herbicides, insecticides) during construction or operation? ☐ Yes ☒ No If Yes: i. Describe proposed treatment(s): _____ _____	
ii. Will the proposed action use Integrated Pest Management Practices? ☐ Yes ☐ No	
r. Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)? ☐ Yes ☒ No If Yes: i. Describe any solid waste(s) to be generated during construction or operation of the facility: • Construction: _____ tons per _____ (unit of time) • Operation : _____ tons per _____ (unit of time) ii. Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste: • Construction: _____ • Operation: _____ iii. Proposed disposal methods/facilities for solid waste generated on-site: • Construction: _____ • Operation: _____	

s. Does the proposed action include construction or modification of a solid waste management facility? ☐ Yes ☒ No

If Yes:

i. Type of management or handling of waste proposed for the site (e.g., recycling or transfer station, composting, landfill, or other disposal activities): _____

ii. Anticipated rate of disposal/processing:

- _____ Tons/month, if transfer or other non-combustion/thermal treatment, or
- _____ Tons/hour, if combustion or thermal treatment

iii. If landfill, anticipated site life: _____ years

t. Will proposed action at the site involve the commercial generation, treatment, storage, or disposal of hazardous waste? ☐ Yes ☒ No

If Yes:

i. Name(s) of all hazardous wastes or constituents to be generated, handled or managed at facility: _____

ii. Generally describe processes or activities involving hazardous wastes or constituents: _____

iii. Specify amount to be handled or generated _____ tons/month

iv. Describe any proposals for on-site minimization, recycling or reuse of hazardous constituents: _____

v. Will any hazardous wastes be disposed at an existing offsite hazardous waste facility? ☐ Yes ☐ No

If Yes: provide name and location of facility: _____

If No: describe proposed management of any hazardous wastes which will not be sent to a hazardous waste facility: _____

E. Site and Setting of Proposed Action

E.1. Land uses on and surrounding the project site

a. Existing land uses.

i. Check all uses that occur on, adjoining and near the project site.

☐ Urban ☐ Industrial ☒ Commercial ☐ Residential (suburban) ☐ Rural (non-farm)

☐ Forest ☐ Agriculture ☐ Aquatic ☐ Other (specify): _____

ii. If mix of uses, generally describe: _____

b. Land uses and covertypes on the project site.

Land use or Covertype	Current Acreage	Acreage After Project Completion	Change (Acres +/-)
• Roads, buildings, and other paved or impervious surfaces	4.5	4.5	0
• Forested			
• Meadows, grasslands or brushlands (non-agricultural, including abandoned agricultural)			
• Agricultural (includes active orchards, field, greenhouse etc.)			
• Surface water features (lakes, ponds, streams, rivers, etc.)			
• Wetlands (freshwater or tidal)			
• Non-vegetated (bare rock, earth or fill)			
• Other Describe: _____			

c. Is the project site presently used by members of the community for public recreation? ☐ Yes ☒ No
i. If Yes: explain: _____

d. Are there any facilities serving children, the elderly, people with disabilities (e.g., schools, hospitals, licensed day care centers, or group homes) within 1500 feet of the project site? ☐ Yes ☒ No
If Yes,
i. Identify Facilities: _____

e. Does the project site contain an existing dam? ☐ Yes ☒ No
If Yes:
i. Dimensions of the dam and impoundment:
• Dam height: _____ feet
• Dam length: _____ feet
• Surface area: _____ acres
• Volume impounded: _____ gallons OR acre-feet
ii. Dam's existing hazard classification: _____
iii. Provide date and summarize results of last inspection: _____

f. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility, or does the project site adjoin property which is now, or was at one time, used as a solid waste management facility? ☐ Yes ☒ No
If Yes:
i. Has the facility been formally closed? ☐ Yes ☐ No
• If yes, cite sources/documentation: _____
ii. Describe the location of the project site relative to the boundaries of the solid waste management facility: _____

iii. Describe any development constraints due to the prior solid waste activities: _____

g. Have hazardous wastes been generated, treated and/or disposed of at the site, or does the project site adjoin property which is now or was at one time used to commercially treat, store and/or dispose of hazardous waste? ☐ Yes ☒ No
If Yes:
i. Describe waste(s) handled and waste management activities, including approximate time when activities occurred: _____

h. Potential contamination history. Has there been a reported spill at the proposed project site, or have any remedial actions been conducted at or adjacent to the proposed site? ☐ Yes ☒ No
If Yes:
i. Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site Remediation database? Check all that apply: ☐ Yes ☐ No
☐ Yes – Spills Incidents database Provide DEC ID number(s): _____
☐ Yes – Environmental Site Remediation database Provide DEC ID number(s): _____
☐ Neither database
ii. If site has been subject of RCRA corrective activities, describe control measures: _____

iii. Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? ☐ Yes ☒ No
If yes, provide DEC ID number(s): _____
iv. If yes to (i), (ii) or (iii) above, describe current status of site(s): _____

v. Is the project site subject to an institutional control limiting property uses? ☐ Yes ☐ No	
• If yes, DEC site ID number: _____ • Describe the type of institutional control (e.g., deed restriction or easement): _____ • Describe any use limitations: _____ • Describe any engineering controls: _____ • Will the project affect the institutional or engineering controls in place? ☐ Yes ☐ No • Explain: _____	
E.2. Natural Resources On or Near Project Site	
a. What is the average depth to bedrock on the project site? _____ >100 feet	
b. Are there bedrock outcroppings on the project site? ☐ Yes ☒ No	
If Yes, what proportion of the site is comprised of bedrock outcroppings? _____ %	
c. Predominant soil type(s) present on project site:	
urban	100 %
_____	_____ %
_____	_____ %
d. What is the average depth to the water table on the project site? Average: _____ 6.0 feet	
e. Drainage status of project site soils:	
☒ Well Drained:	100 % of site
☐ Moderately Well Drained:	_____ % of site
☐ Poorly Drained	_____ % of site
f. Approximate proportion of proposed action site with slopes:	
☒ 0-10%:	100 % of site
☐ 10-15%:	_____ % of site
☐ 15% or greater:	_____ % of site
g. Are there any unique geologic features on the project site? ☐ Yes ☒ No	
If Yes, describe: _____	
h. Surface water features.	
i. Does any portion of the project site contain wetlands or other waterbodies (including streams, rivers, ponds or lakes)? ☐ Yes ☒ No	
ii. Do any wetlands or other waterbodies adjoin the project site? ☒ Yes ☐ No	
If Yes to either i or ii, continue. If No, skip to E.2.i.	
iii. Are any of the wetlands or waterbodies within or adjoining the project site regulated by any federal, state or local agency? ☒ Yes ☐ No	
iv. For each identified regulated wetland and waterbody on the project site, provide the following information:	
• Streams: Name _____ Classification _____	
• Lakes or Ponds: Name _____ Classification _____	
• Wetlands: Name _____ Approximate Size _____	
• Wetland No. (if regulated by DEC) _____	
v. Are any of the above water bodies listed in the most recent compilation of NYS water quality-impaired waterbodies? ☐ Yes ☒ No	
If yes, name of impaired water body/bodies and basis for listing as impaired: _____	
i. Is the project site in a designated Floodway? ☐ Yes ☒ No	
j. Is the project site in the 100 year Floodplain? ☒ Yes ☐ No	
k. Is the project site in the 500 year Floodplain? ☒ Yes ☐ No	
l. Is the project site located over, or immediately adjoining, a primary, principal or sole source aquifer? ☒ Yes ☐ No	
If Yes:	
i. Name of aquifer: Sole Source Aquifer Names: Nassau-Suffolk SSA	

m. Identify the predominant wildlife species that occupy or use the project site: Species commonly found in an urban built environment on the south shore of Long Island	
n. Does the project site contain a designated significant natural community? ☐ Yes ☒ No If Yes: i. Describe the habitat/community (composition, function, and basis for designation): _____ ii. Source(s) of description or evaluation: _____ iii. Extent of community/habitat: • Currently: _____ acres • Following completion of project as proposed: _____ acres • Gain or loss (indicate + or -): _____ acres	
o. Does project site contain any species of plant or animal that is listed by the federal government or NYS as endangered or threatened, or does it contain any areas identified as habitat for an endangered or threatened species? ☐ Yes ☒ No	
p. Does the project site contain any species of plant or animal that is listed by NYS as rare, or as a species of special concern? ☐ Yes ☒ No	
q. Is the project site or adjoining area currently used for hunting, trapping, fishing or shell fishing? ☐ Yes ☒ No If yes, give a brief description of how the proposed action may affect that use: _____	
E.3. Designated Public Resources On or Near Project Site	
a. Is the project site, or any portion of it, located in a designated agricultural district certified pursuant to Agriculture and Markets Law, Article 25-AA, Section 303 and 304? ☐ Yes ☒ No If Yes, provide county plus district name/number: _____	
b. Are agricultural lands consisting of highly productive soils present? ☐ Yes ☒ No i. If Yes: acreage(s) on project site? _____ ii. Source(s) of soil rating(s): _____	
c. Does the project site contain all or part of, or is it substantially contiguous to, a registered National Natural Landmark? ☐ Yes ☒ No If Yes: i. Nature of the natural landmark: ☐ Biological Community ☐ Geological Feature ii. Provide brief description of landmark, including values behind designation and approximate size/extent: _____	
d. Is the project site located in or does it adjoin a state listed Critical Environmental Area? ☐ Yes ☒ No If Yes: i. CEA name: _____ ii. Basis for designation: _____ iii. Designating agency and date: _____	

e. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on, or has been nominated by the NYS Board of Historic Preservation for inclusion on, the State or National Register of Historic Places?	☒ Yes ☐ No
If Yes:	
i. Nature of historic/archaeological resource: ☐ Archaeological Site ☒ Historic Building or District	
ii. Name: <u>US Post Office--Westhampton Beach</u>	
iii. Brief description of attributes on which listing is based: <u>Architecture</u>	
f. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory?	☐ Yes ☒ No
g. Have additional archaeological or historic site(s) or resources been identified on the project site?	☐ Yes ☒ No
If Yes:	
i. Describe possible resource(s): _____	
ii. Basis for identification: _____	
h. Is the project site within five miles of any officially designated and publicly accessible federal, state, or local scenic or aesthetic resource?	☐ Yes ☒ No
If Yes:	
i. Identify resource: _____	
ii. Nature of, or basis for, designation (e.g., established highway overlook, state or local park, state historic trail or scenic byway, etc.): _____	
iii. Distance between project and resource: _____ miles.	
i. Is the project site located within a designated river corridor under the Wild, Scenic and Recreational Rivers Program 6 NYCRR 666?	☐ Yes ☒ No
If Yes:	
i. Identify the name of the river and its designation: _____	
ii. Is the activity consistent with development restrictions contained in 6NYCRR Part 666?	
	☐ Yes ☒ No

F. Additional Information

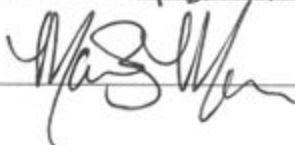
Attach any additional information which may be needed to clarify your project.

If you have identified any adverse impacts which could be associated with your proposal, please describe those impacts plus any measures which you propose to avoid or minimize them.

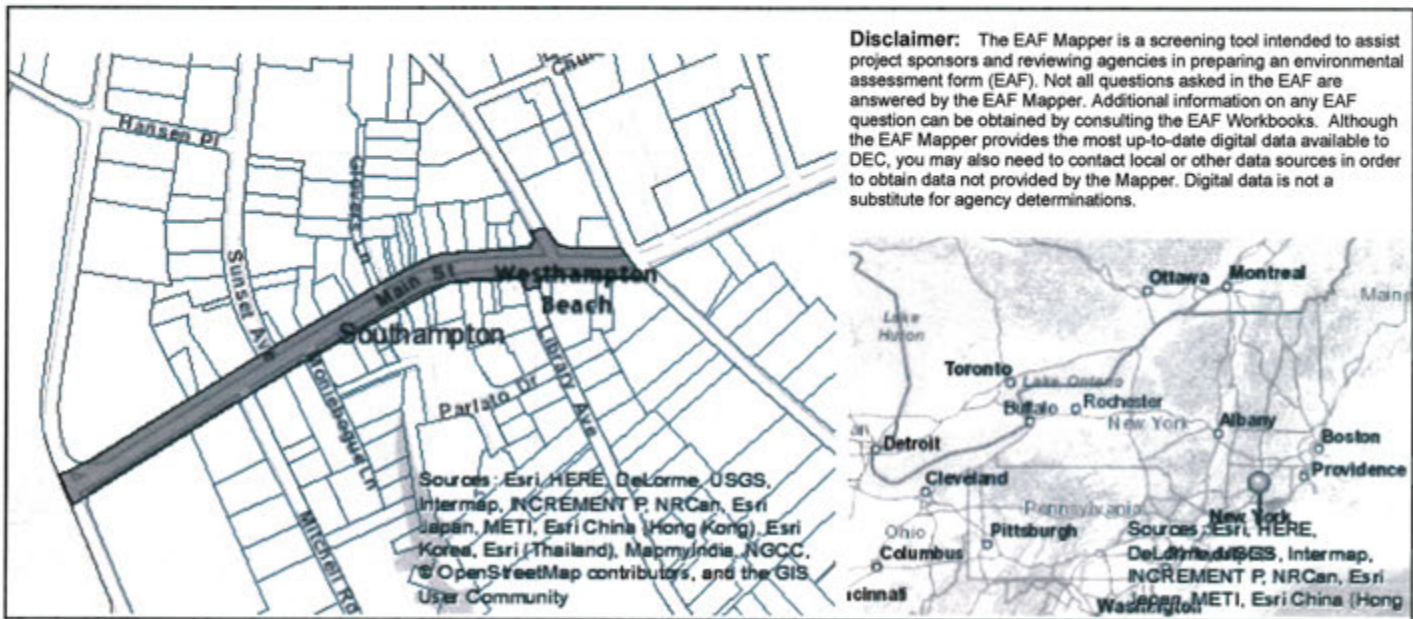
G. Verification

I certify that the information provided is true to the best of my knowledge.

Applicant/Sponsor Name Maria Moore Date 6/1/18

Signature  Title Mayor

PRINT FORM



B.1.i [Coastal or Waterfront Area]	Yes
B.1.ii [Local Waterfront Revitalization Area]	No
C.2.b. [Special Planning District]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h [DEC Spills or Remediation Site - Potential Contamination History]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Listed]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Environmental Site Remediation Database]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.iii [Within 2,000' of DEC Remediation Site]	No
E.2.g [Unique Geologic Features]	No
E.2.h.i [Surface Water Features]	No
E.2.h.ii [Surface Water Features]	Yes
E.2.h.iii [Surface Water Features]	Yes - Digital mapping information on local and federal wetlands and waterbodies is known to be incomplete. Refer to EAF Workbook.
E.2.h.v [Impaired Water Bodies]	No
E.2.i. [Floodway]	No
E.2.j. [100 Year Floodplain]	Yes
E.2.k. [500 Year Floodplain]	Yes
E.2.l. [Aquifers]	Yes
E.2.l. [Aquifer Names]	Sole Source Aquifer Names: Nassau-Suffolk SSA
E.2.n. [Natural Communities]	No
E.2.o. [Endangered or Threatened Species]	No

E.2.p. [Rare Plants or Animals]	No
E.3.a. [Agricultural District]	No
E.3.c. [National Natural Landmark]	No
E.3.d [Critical Environmental Area]	No
E.3.e. [National Register of Historic Places]	Yes - Digital mapping data for archaeological site boundaries are not available. Refer to EAF Workbook.
E.3.e.ii [National Register of Historic Places - Name]	US Post Office--Westhampton Beach
E.3.f. [Archeological Sites]	No
E.3.i. [Designated River Corridor]	No

Full Environmental Assessment Form
Part 2 - Identification of Potential Project Impacts

Agency Use Only [If applicable]
 Project : WHB - Street Improvement Project
 Date : 6/1/18

Part 2 is to be completed by the lead agency. Part 2 is designed to help the lead agency inventory all potential resources that could be affected by a proposed project or action. We recognize that the lead agency's reviewer(s) will not necessarily be environmental professionals. So, the questions are designed to walk a reviewer through the assessment process by providing a series of questions that can be answered using the information found in Part 1. To further assist the lead agency in completing Part 2, the form identifies the most relevant questions in Part 1 that will provide the information needed to answer the Part 2 question. When Part 2 is completed, the lead agency will have identified the relevant environmental areas that may be impacted by the proposed activity.

If the lead agency is a state agency **and** the action is in any Coastal Area, complete the Coastal Assessment Form before proceeding with this assessment.

Tips for completing Part 2:

- Review all of the information provided in Part 1.
- Review any application, maps, supporting materials and the Full EAF Workbook.
- Answer each of the 18 questions in Part 2.
- If you answer "Yes" to a numbered question, please complete all the questions that follow in that section.
- If you answer "No" to a numbered question, move on to the next numbered question.
- Check appropriate column to indicate the anticipated size of the impact.
- Proposed projects that would exceed a numeric threshold contained in a question should result in the reviewing agency checking the box "Moderate to large impact may occur."
- The reviewer is not expected to be an expert in environmental analysis.
- If you are not sure or undecided about the size of an impact, it may help to review the sub-questions for the general question and consult the workbook.
- When answering a question consider all components of the proposed activity, that is, the "whole action".
- Consider the possibility for long-term and cumulative impacts as well as direct impacts.
- Answer the question in a reasonable manner considering the scale and context of the project.

1. Impact on Land Proposed action may involve construction on, or physical alteration of, the land surface of the proposed site. (See Part 1. D.1) <i>If "Yes", answer questions a - j. If "No", move on to Section 2.</i> ☐ NO ☒ YES			
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may involve construction on land where depth to water table is less than 3 feet.	E2d	☒	☐
b. The proposed action may involve construction on slopes of 15% or greater.	E2f	☒	☐
c. The proposed action may involve construction on land where bedrock is exposed, or generally within 5 feet of existing ground surface.	E2a	☒	☐
d. The proposed action may involve the excavation and removal of more than 1,000 tons of natural material.	D2a	☒	☐
e. The proposed action may involve construction that continues for more than one year or in multiple phases.	D1e	☒	☐
f. The proposed action may result in increased erosion, whether from physical disturbance or vegetation removal (including from treatment by herbicides).	D2e, D2q	☒	☐
g. The proposed action is, or may be, located within a Coastal Erosion hazard area.	B1i	☒	☐
h. Other impacts: _____		☒	☐

2. Impact on Geological Features

The proposed action may result in the modification or destruction of, or inhibit access to, any unique or unusual land forms on the site (e.g., cliffs, dunes, minerals, fossils, caves). (See Part 1. E.2.g)

☒ NO☐ YES

If "Yes", answer questions a - c. If "No", move on to Section 3.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. Identify the specific land form(s) attached: _____	E2g	☐	☐
b. The proposed action may affect or is adjacent to a geological feature listed as a registered National Natural Landmark. Specific feature: _____	E3c	☐	☐
c. Other impacts: _____		☐	☐

3. Impacts on Surface Water

The proposed action may affect one or more wetlands or other surface water bodies (e.g., streams, rivers, ponds or lakes). (See Part 1. D.2, E.2.h)

☐ NO☒ YES

If "Yes", answer questions a - l. If "No", move on to Section 4.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may create a new water body.	D2b, D1h	☒	☐
b. The proposed action may result in an increase or decrease of over 10% or more than a 10 acre increase or decrease in the surface area of any body of water.	D2b	☒	☐
c. The proposed action may involve dredging more than 100 cubic yards of material from a wetland or water body.	D2a	☒	☐
d. The proposed action may involve construction within or adjoining a freshwater or tidal wetland, or in the bed or banks of any other water body.	E2h	☒	☐
e. The proposed action may create turbidity in a waterbody, either from upland erosion, runoff or by disturbing bottom sediments.	D2a, D2h	☒	☐
f. The proposed action may include construction of one or more intake(s) for withdrawal of water from surface water.	D2c	☒	☐
g. The proposed action may include construction of one or more outfall(s) for discharge of wastewater to surface water(s).	D2d	☒	☐
h. The proposed action may cause soil erosion, or otherwise create a source of stormwater discharge that may lead to siltation or other degradation of receiving water bodies.	D2e	☒	☐
i. The proposed action may affect the water quality of any water bodies within or downstream of the site of the proposed action.	E2h	☒	☐
j. The proposed action may involve the application of pesticides or herbicides in or around any water body.	D2q, E2h	☒	☐
k. The proposed action may require the construction of new, or expansion of existing, wastewater treatment facilities.	D1a, D2d	☒	☐

I. Other impacts: _____ _____		☐	☐
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4. Impact on groundwater

The proposed action may result in new or additional use of ground water, or may have the potential to introduce contaminants to ground water or an aquifer.

☒ NO

☐ YES

(See Part 1. D.2.a, D.2.c, D.2.d, D.2.p, D.2.q, D.2.t)

If "Yes", answer questions a - h. If "No", move on to Section 5.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may require new water supply wells, or create additional demand on supplies from existing water supply wells.	D2c	☐	☐
b. Water supply demand from the proposed action may exceed safe and sustainable withdrawal capacity rate of the local supply or aquifer. Cite Source: _____	D2c	☐	☐
c. The proposed action may allow or result in residential uses in areas without water and sewer services.	D1a, D2c	☐	☐
d. The proposed action may include or require wastewater discharged to groundwater.	D2d, E2l	☐	☐
e. The proposed action may result in the construction of water supply wells in locations where groundwater is, or is suspected to be, contaminated.	D2c, E1f, E1g, E1h	☐	☐
f. The proposed action may require the bulk storage of petroleum or chemical products over ground water or an aquifer.	D2p, E2l	☐	☐
g. The proposed action may involve the commercial application of pesticides within 100 feet of potable drinking water or irrigation sources.	E2h, D2q, E2l, D2c	☐	☐
h. Other impacts: _____ _____		☐	☐

5. Impact on Flooding

The proposed action may result in development on lands subject to flooding.

☐ NO

☒ YES

(See Part 1. E.2)

If "Yes", answer questions a - g. If "No", move on to Section 6.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may result in development in a designated floodway.	E2i	☒	☐
b. The proposed action may result in development within a 100 year floodplain.	E2j	☒	☐
c. The proposed action may result in development within a 500 year floodplain.	E2k	☒	☐
d. The proposed action may result in, or require, modification of existing drainage patterns.	D2b, D2e	☒	☐
e. The proposed action may change flood water flows that contribute to flooding.	D2b, E2i, E2j, E2k	☒	☐
f. If there is a dam located on the site of the proposed action, is the dam in need of repair, or upgrade?	E1e	☒	☐

g. Other impacts: _____ _____		☐	☐
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6. Impacts on Air The proposed action may include a state regulated air emission source. ☒ NO ☐ YES (See Part 1. D.2.f., D.2.h, D.2.g) <i>If "Yes", answer questions a - f. If "No", move on to Section 7.</i>			
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. If the proposed action requires federal or state air emission permits, the action may also emit one or more greenhouse gases at or above the following levels: i. More than 1000 tons/year of carbon dioxide (CO ₂) ii. More than 3.5 tons/year of nitrous oxide (N ₂ O) iii. More than 1000 tons/year of carbon equivalent of perfluorocarbons (PFCs) iv. More than .045 tons/year of sulfur hexafluoride (SF ₆) v. More than 1000 tons/year of carbon dioxide equivalent of hydrochloroflourocarbons (HFCs) emissions vi. 43 tons/year or more of methane	D2g D2g D2g D2g D2g D2h	☐ ☐ ☐ ☐ ☐ ☐	☐ ☐ ☐ ☐ ☐ ☐
b. The proposed action may generate 10 tons/year or more of any one designated hazardous air pollutant, or 25 tons/year or more of any combination of such hazardous air pollutants.	D2g	☐	☐
c. The proposed action may require a state air registration, or may produce an emissions rate of total contaminants that may exceed 5 lbs. per hour, or may include a heat source capable of producing more than 10 million BTU's per hour.	D2f, D2g	☐	☐
d. The proposed action may reach 50% of any of the thresholds in "a" through "c", above.	D2g	☐	☐
e. The proposed action may result in the combustion or thermal treatment of more than 1 ton of refuse per hour.	D2s	☐	☐
f. Other impacts: _____ _____		☐	☐

7. Impact on Plants and Animals The proposed action may result in a loss of flora or fauna. (See Part 1. E.2. m.-q.) ☒ NO ☐ YES <i>If "Yes", answer questions a - j. If "No", move on to Section 8.</i>			
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may cause reduction in population or loss of individuals of any threatened or endangered species, as listed by New York State or the Federal government, that use the site, or are found on, over, or near the site.	E2o	☐	☐
b. The proposed action may result in a reduction or degradation of any habitat used by any rare, threatened or endangered species, as listed by New York State or the federal government.	E2o	☐	☐
c. The proposed action may cause reduction in population, or loss of individuals, of any species of special concern or conservation need, as listed by New York State or the Federal government, that use the site, or are found on, over, or near the site.	E2p	☐	☐
d. The proposed action may result in a reduction or degradation of any habitat used by any species of special concern and conservation need, as listed by New York State or the Federal government.	E2p	☐	☐

e. The proposed action may diminish the capacity of a registered National Natural Landmark to support the biological community it was established to protect.	E3c	☐	☐
f. The proposed action may result in the removal of, or ground disturbance in, any portion of a designated significant natural community. Source: _____	E2n	☐	☐
g. The proposed action may substantially interfere with nesting/breeding, foraging, or over-wintering habitat for the predominant species that occupy or use the project site.	E2m	☐	☐
h. The proposed action requires the conversion of more than 10 acres of forest, grassland or any other regionally or locally important habitat. Habitat type & information source: _____	E1b	☐	☐
i. Proposed action (commercial, industrial or recreational projects, only) involves use of herbicides or pesticides.	D2q	☐	☐
j. Other impacts: _____		☐	☐

8. Impact on Agricultural Resources The proposed action may impact agricultural resources. (See Part 1. E.3.a. and b.) ☒ NO ☐ YES <i>If "Yes", answer questions a - h. If "No", move on to Section 9.</i>			
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may impact soil classified within soil group 1 through 4 of the NYS Land Classification System.	E2c, E3b	☐	☐
b. The proposed action may sever, cross or otherwise limit access to agricultural land (includes cropland, hayfields, pasture, vineyard, orchard, etc).	E1a, E1b	☐	☐
c. The proposed action may result in the excavation or compaction of the soil profile of active agricultural land.	E3b	☐	☐
d. The proposed action may irreversibly convert agricultural land to non-agricultural uses, either more than 2.5 acres if located in an Agricultural District, or more than 10 acres if not within an Agricultural District.	E1b, E3a	☐	☐
e. The proposed action may disrupt or prevent installation of an agricultural land management system.	E1 a, E1b	☐	☐
f. The proposed action may result, directly or indirectly, in increased development potential or pressure on farmland.	C2c, C3, D2c, D2d	☐	☐
g. The proposed project is not consistent with the adopted municipal Farmland Protection Plan.	C2c	☐	☐
h. Other impacts: _____		☐	☐

9. Impact on Aesthetic Resources The land use of the proposed action are obviously different from, or are in sharp contrast to, current land use patterns between the proposed project and a scenic or aesthetic resource. (Part 1. E.1.a, E.1.b, E.3.h.) <i>If "Yes", answer questions a - g. If "No", go to Section 10.</i>			
		☒ NO	☐ YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. Proposed action may be visible from any officially designated federal, state, or local scenic or aesthetic resource.	E3h	☐	☐
b. The proposed action may result in the obstruction, elimination or significant screening of one or more officially designated scenic views.	E3h, C2b	☐	☐
c. The proposed action may be visible from publicly accessible vantage points: i. Seasonally (e.g., screened by summer foliage, but visible during other seasons) ii. Year round	E3h	☐ ☐	☐ ☐
d. The situation or activity in which viewers are engaged while viewing the proposed action is: i. Routine travel by residents, including travel to and from work ii. Recreational or tourism based activities	E3h E2q, E1c	☐ ☐	☐ ☐
e. The proposed action may cause a diminishment of the public enjoyment and appreciation of the designated aesthetic resource.	E3h	☐	☐
f. There are similar projects visible within the following distance of the proposed project: 0-1/2 mile 1/2 -3 mile 3-5 mile 5+ mile	D1a, E1a, D1f, D1g	☐	☐
g. Other impacts: _____		☐	☐

10. Impact on Historic and Archeological Resources The proposed action may occur in or adjacent to a historic or archaeological resource. (Part 1. E.3.e, f. and g.) <i>If "Yes", answer questions a - e. If "No", go to Section 11.</i>			
		☐ NO	☒ YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may occur wholly or partially within, or substantially contiguous to, any buildings, archaeological site or district which is listed on or has been nominated by the NYS Board of Historic Preservation for inclusion on the State or National Register of Historic Places.	E3e	☒	☐
b. The proposed action may occur wholly or partially within, or substantially contiguous to, an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory.	E3f	☒	☐
c. The proposed action may occur wholly or partially within, or substantially contiguous to, an archaeological site not included on the NY SHPO inventory. Source: _____	E3g	☒	☐

d. Other impacts: _____		☐	☐
If any of the above (a-d) are answered "Moderate to large impact may occur", continue with the following questions to help support conclusions in Part 3:			
i. The proposed action may result in the destruction or alteration of all or part of the site or property.	E3e, E3g, E3f	☐	☐
ii. The proposed action may result in the alteration of the property's setting or integrity.	E3e, E3f, E3g, E1a, E1b	☐	☐
iii. The proposed action may result in the introduction of visual elements which are out of character with the site or property, or may alter its setting.	E3e, E3f, E3g, E3h, C2, C3	☐	☐

11. Impact on Open Space and Recreation The proposed action may result in a loss of recreational opportunities or a reduction of an open space resource as designated in any adopted municipal open space plan. (See Part 1. C.2.c, E.1.c., E.2.q.) If "Yes", answer questions a - e. If "No", go to Section 12.			
		☒ NO	☐ YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may result in an impairment of natural functions, or "ecosystem services", provided by an undeveloped area, including but not limited to stormwater storage, nutrient cycling, wildlife habitat.	D2e, E1b E2h, E2m, E2o, E2n, E2p	☐	☐
b. The proposed action may result in the loss of a current or future recreational resource.	C2a, E1c, C2c, E2q	☐	☐
c. The proposed action may eliminate open space or recreational resource in an area with few such resources.	C2a, C2c E1c, E2q	☐	☐
d. The proposed action may result in loss of an area now used informally by the community as an open space resource.	C2c, E1c	☐	☐
e. Other impacts: _____		☐	☐

12. Impact on Critical Environmental Areas The proposed action may be located within or adjacent to a critical environmental area (CEA). (See Part 1. E.3.d) If "Yes", answer questions a - c. If "No", go to Section 13.			
		☒ NO	☐ YES
	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may result in a reduction in the quantity of the resource or characteristic which was the basis for designation of the CEA.	E3d	☐	☐
b. The proposed action may result in a reduction in the quality of the resource or characteristic which was the basis for designation of the CEA.	E3d	☐	☐
c. Other impacts: _____		☐	☐

13. Impact on Transportation

The proposed action may result in a change to existing transportation systems.
(See Part 1. D.2.j)

☐ NO☒ YES

If "Yes", answer questions a - f. If "No", go to Section 14.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. Projected traffic increase may exceed capacity of existing road network.	D2j	☒	☐
b. The proposed action may result in the construction of paved parking area for 500 or more vehicles.	D2j	☒	☐
c. The proposed action will degrade existing transit access.	D2j	☒	☐
d. The proposed action will degrade existing pedestrian or bicycle accommodations.	D2j	☒	☐
e. The proposed action may alter the present pattern of movement of people or goods.	D2j	☒	☐
f. Other impacts: _____		☐	☐

14. Impact on Energy

The proposed action may cause an increase in the use of any form of energy.
(See Part 1. D.2.k)

☒ NO☐ YES

If "Yes", answer questions a - e. If "No", go to Section 15.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action will require a new, or an upgrade to an existing, substation.	D2k	☐	☐
b. The proposed action will require the creation or extension of an energy transmission or supply system to serve more than 50 single or two-family residences or to serve a commercial or industrial use.	D1f, D1q, D2k	☐	☐
c. The proposed action may utilize more than 2,500 MWhrs per year of electricity.	D2k	☐	☐
d. The proposed action may involve heating and/or cooling of more than 100,000 square feet of building area when completed.	D1g	☐	☐
e. Other Impacts: _____			

15. Impact on Noise, Odor, and Light

The proposed action may result in an increase in noise, odors, or outdoor lighting.
(See Part 1. D.2.m., n., and o.)

☒ NO☐ YES

If "Yes", answer questions a - f. If "No", go to Section 16.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may produce sound above noise levels established by local regulation.	D2m	☐	☐
b. The proposed action may result in blasting within 1,500 feet of any residence, hospital, school, licensed day care center, or nursing home.	D2m, E1d	☐	☐
c. The proposed action may result in routine odors for more than one hour per day.	D2o	☐	☐

d. The proposed action may result in light shining onto adjoining properties.	D2n	☐	☐
e. The proposed action may result in lighting creating sky-glow brighter than existing area conditions.	D2n, E1a	☐	☐
f. Other impacts: _____ _____		☐	☐

16. Impact on Human Health

The proposed action may have an impact on human health from exposure to new or existing sources of contaminants. (See Part 1.D.2.q., E.1. d. f. g. and h.)

☒ NO

☐ YES

If "Yes", answer questions a - m. If "No", go to Section 17.

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action is located within 1500 feet of a school, hospital, licensed day care center, group home, nursing home or retirement community.	E1d	☐	☐
b. The site of the proposed action is currently undergoing remediation.	E1g, E1h	☐	☐
c. There is a completed emergency spill remediation, or a completed environmental site remediation on, or adjacent to, the site of the proposed action.	E1g, E1h	☐	☐
d. The site of the action is subject to an institutional control limiting the use of the property (e.g., easement or deed restriction).	E1g, E1h	☐	☐
e. The proposed action may affect institutional control measures that were put in place to ensure that the site remains protective of the environment and human health.	E1g, E1h	☐	☐
f. The proposed action has adequate control measures in place to ensure that future generation, treatment and/or disposal of hazardous wastes will be protective of the environment and human health.	D2t	☐	☐
g. The proposed action involves construction or modification of a solid waste management facility.	D2q, E1f	☐	☐
h. The proposed action may result in the unearthing of solid or hazardous waste.	D2q, E1f	☐	☐
i. The proposed action may result in an increase in the rate of disposal, or processing, of solid waste.	D2r, D2s	☐	☐
j. The proposed action may result in excavation or other disturbance within 2000 feet of a site used for the disposal of solid or hazardous waste.	E1f, E1g E1h	☐	☐
k. The proposed action may result in the migration of explosive gases from a landfill site to adjacent off site structures.	E1f, E1g	☐	☐
l. The proposed action may result in the release of contaminated leachate from the project site.	D2s, E1f, D2r	☐	☐
m. Other impacts: _____ _____			

17. Consistency with Community Plans

The proposed action is not consistent with adopted land use plans.

(See Part 1. C.1, C.2. and C.3.)

If "Yes", answer questions a - h. If "No", go to Section 18.

☒ NO

☐ YES

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action's land use components may be different from, or in sharp contrast to, current surrounding land use pattern(s).	C2, C3, D1a E1a, E1b	☐	☐
b. The proposed action will cause the permanent population of the city, town or village in which the project is located to grow by more than 5%.	C2	☐	☐
c. The proposed action is inconsistent with local land use plans or zoning regulations.	C2, C2, C3	☐	☐
d. The proposed action is inconsistent with any County plans, or other regional land use plans.	C2, C2	☐	☐
e. The proposed action may cause a change in the density of development that is not supported by existing infrastructure or is distant from existing infrastructure.	C3, D1c, D1d, D1f, D1d, E1b	☐	☐
f. The proposed action is located in an area characterized by low density development that will require new or expanded public infrastructure.	C4, D2c, D2d D2j	☐	☐
g. The proposed action may induce secondary development impacts (e.g., residential or commercial development not included in the proposed action)	C2a	☐	☐
h. Other: _____ _____		☐	☐

18. Consistency with Community Character

The proposed project is inconsistent with the existing community character.

(See Part 1. C.2, C.3, D.2, E.3)

If "Yes", answer questions a - g. If "No", proceed to Part 3.

☒ NO

☐ YES

	Relevant Part I Question(s)	No, or small impact may occur	Moderate to large impact may occur
a. The proposed action may replace or eliminate existing facilities, structures, or areas of historic importance to the community.	E3e, E3f, E3g	☐	☐
b. The proposed action may create a demand for additional community services (e.g. schools, police and fire)	C4	☐	☐
c. The proposed action may displace affordable or low-income housing in an area where there is a shortage of such housing.	C2, C3, D1f D1g, E1a	☐	☐
d. The proposed action may interfere with the use or enjoyment of officially recognized or designated public resources.	C2, E3	☐	☐
e. The proposed action is inconsistent with the predominant architectural scale and character.	C2, C3	☐	☐
f. Proposed action is inconsistent with the character of the existing natural landscape.	C2, C3 E1a, E1b E2g, E2h	☐	☐
g. Other impacts: _____ _____		☐	☐

PRINT FULL FORM

Full Environmental Assessment Form
Part 3 - Evaluation of the Magnitude and Importance of Project Impacts
and
Determination of Significance

Part 3 provides the reasons in support of the determination of significance. The lead agency must complete Part 3 for every question in Part 2 where the impact has been identified as potentially moderate to large or where there is a need to explain why a particular element of the proposed action will not, or may, result in a significant adverse environmental impact.

Based on the analysis in Part 3, the lead agency must decide whether to require an environmental impact statement to further assess the proposed action or whether available information is sufficient for the lead agency to conclude that the proposed action will not have a significant adverse environmental impact. By completing the certification on the next page, the lead agency can complete its determination of significance.

Reasons Supporting This Determination:

To complete this section:

- Identify the impact based on the Part 2 responses and describe its magnitude. Magnitude considers factors such as severity, size or extent of an impact.
- Assess the importance of the impact. Importance relates to the geographic scope, duration, probability of the impact occurring, number of people affected by the impact and any additional environmental consequences if the impact were to occur.
- The assessment should take into consideration any design element or project changes.
- Repeat this process for each Part 2 question where the impact has been identified as potentially moderate to large or where there is a need to explain why a particular element of the proposed action will not, or may, result in a significant adverse environmental impact.
- Provide the reason(s) why the impact may, or will not, result in a significant adverse environmental impact
- For Conditional Negative Declarations identify the specific condition(s) imposed that will modify the proposed action so that no significant adverse environmental impacts will result.
- Attach additional sheets, as needed.

There were no moderate to large impacts identified in the LEAF Part 2, therefore, there are no significant adverse impacts associated with the subject project. In fact, several aspects of the project, including the drainage improvements, traffic circulation improvements, undergrounding of the existing utility lines, and the proposed aesthetic improvements will result in beneficial environmental impacts, as described in the accompanying negative declaration resolution adopted by the Village Board of Trustees.

Determination of Significance - Type 1 and Unlisted Actions

SEQR Status: ☐ Type 1 ☒ Unlisted

Identify portions of EAF completed for this Project: ☒ Part 1 ☒ Part 2 ☒ Part 3

Upon review of the information recorded on this EAF, as noted, plus this additional support information

and considering both the magnitude and importance of each identified potential impact, it is the conclusion of the
Trustees of the Village of Westhampton Beach as lead agency that:

☒ A. This project will result in no significant adverse impacts on the environment, and, therefore, an environmental impact statement need not be prepared. Accordingly, this negative declaration is issued.

☐ B. Although this project could have a significant adverse impact on the environment, that impact will be avoided or substantially mitigated because of the following conditions which will be required by the lead agency:

There will, therefore, be no significant adverse impacts from the project as conditioned, and, therefore, this conditioned negative declaration is issued. A conditioned negative declaration may be used only for UNLISTED actions (see 6 NYCRR 617.d).

☐ C. This Project may result in one or more significant adverse impacts on the environment, and an environmental impact statement must be prepared to further assess the impact(s) and possible mitigation and to explore alternatives to avoid or reduce those impacts. Accordingly, this positive declaration is issued.

Name of Action: Village of Westhampton Beach Main Street Roadway, Drainage and Streetscape Improvement Project

Name of Lead Agency: Village of Westhampton Beach

Name of Responsible Officer in Lead Agency: Maria Z. Moore

Title of Responsible Officer: Mayor

Signature of Responsible Officer in Lead Agency:

Date: 6/1/18

Signature of Preparer (if different from Responsible Officer)

Date: 6/1/18

For Further Information:

Contact Person: Mayor Maria Z. Moore

Address: 165 Mill Road, WHB, NY 11978

Telephone Number: 631-288-1654

E-mail: Mayormoore@westhamptonbeach.org

For Type I Actions and Conditioned Negative Declarations, a copy of this Notice is sent to:

Chief Executive Officer of the political subdivision in which the action will be principally located (e.g., Town / City / Village of)

Other involved agencies (if any)

Applicant (if any)

Environmental Notice Bulletin: <http://www.dec.ny.gov/enb/enb.html>

The Board of Trustees of the Village of Westhampton Beach held their Regular Meeting on Thursday, June 7, 2018 at 5 p.m. in the Municipal Building, 165 Mill Road, Westhampton Beach.

PRESENT: Mayor Maria Z. Moore
Deputy Mayor Ralph Urban
Trustee Stephen Frano
Trustee Rob Rubio
Trustee Brian Tymann

Clerk-Treasurer Elizabeth Lindtvit
Village Attorney-Stephen Angel

SEQRA Determination on the Village of Westhampton Beach Main Street Roadway, Drainage and Streetscape Improvement Project

Motion made by Deputy Mayor Urban:

WHEREAS, the Trustees of the Village of Westhampton Beach are considering the Main Street Roadway, Drainage and Streetscape Improvement Project (the "Main Street Improvement Project"), which consists of upgrades to the existing streetscape, improvements to the existing storm water management, and the enhancement of public health and safety along Main Street; and

WHEREAS, in particular, the Main Street Improvement Project will provide the following improvements:

- Replacement of the existing roadway pavement, sidewalks and curbing;
- Implementation of traffic calming measures consisting of curbed, landscaped peninsulas to define parking and pedestrian crossing and reduce existing roadway width;
- Increased sidewalk area widths that will enhance pedestrian circulation;
- Addition of curbed extensions at the Mill Road, Main Street and Library Avenue intersection that will better define the intersection and improve traffic safety and circulation;
- Relocation of the existing overhead utility lines underground, which will enhance pedestrian access and circulation along Main Street and improve public health and safety by removing the existing overhead utility lines and poles that currently: (i) obstruct firefighting capabilities along Main Street and create a hazardous condition to firefighters and building occupants; (ii) inhibit property owners from performing necessary work and maintenance on the facades of their buildings; (iii) create a health and safety hazard during extreme weather events due to their vulnerability to power outages, downed wires and other damage; (iv) create a hazard for vehicular traffic along Main Street; and (v) impede pedestrian access and circulation along Main Street;
- Replacement of the existing decorative street lighting along Main Street (with continued supplemental roadway lighting from existing cobra head lighting on utility poles);
- Installation of "dry" sanitary sewer force main across Main Street near Moniebogue Lane for future sewer district use;
- Replacement of the drainage system between Potunk Lane and Mill Road (any improvements to drainage system directed towards Beach Lane are excluded);
- Realignment of the drainage pipe between buildings south of Main Street, which will connect to the existing 30" clay pipe to outfall;
- Implementation of storm water quality improvements by either reducing the amount of runoff or treating the storm water runoff prior to discharge into Moniebogue Canal.; and

WHEREAS, after preparation and review of the Long Environmental Assessment Form Parts I and II, as prescribed by 6NYCRR Part 617, State Environmental Quality Review

Act (SEQR) for the subject Unlisted Action, the Village Trustees have considered the magnitude and importance of each potential impact; and

WHEREAS, an uncoordinated review was conducted, pursuant to SEQR on the subject unlisted action, as there are no other involved agencies associated with the subject action; and

WHEREAS, the Village Trustees find that the proposed Main Street Improvement Project will not result in any potentially large impacts and therefore will not have a significant impact on the environment; and

WHEREAS, the Village Trustees further find that any minor impacts resulting from the Main Street Improvement Project will be temporary in nature and associated with the work involved in replacing and/or upgrading the existing infrastructure along Main Street, including the sidewalks, roadway pavement, curbing, lighting, utility lines, landscaping and drainage systems, which will provide long-term environmental benefits;

WHEREAS, the Village Trustees further find that several aspects of the project, including the drainage improvements, traffic circulation improvements, undergrounding of the existing utility lines, and the proposed aesthetic improvements will result in beneficial environmental impacts; now therefore

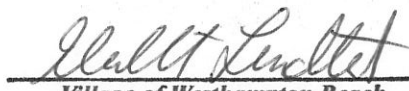
BE IT RESOLVED, pursuant to SEQRA 6 NYCRR Part 617, the Village Trustees hereby adopt a negative declaration (determination of non-significance) for the Main Street Roadway, Drainage and Streetscape Improvement Project, and authorize the Mayor of the Incorporated Village of Westhampton Beach, Maria Moore, to complete and sign the FEAF Part 3, indicating that the proposed action will not result in any significant environmental impacts.

Seconded by Trustee Frano and unanimously approves 4 Ayes, 0 Nays

DATED: June 7, 2018


Elizabeth Lindtvit

I HEREBY CERTIFY that the within is a true and correct copy of the original on file in my office and of the whole thereof.


Village of Westhampton Beach Clerk

Dated: June 7, 2018

Vortechs[®] Guide Operation, Design, Performance and Maintenance



Vortechs®

The Vortechs system is a high-performance hydrodynamic separator that effectively removes finer sediment (e.g. 50-microns (μm), oil, and floating and sinking debris. The swirl concentration operation and flow controls work together to minimize turbulence and provide stable storage of captured pollutants. Precast models can treat peak design flows up to 30-cfs (850-L/s); cast-in-place models handle even greater flows. A typical system is sized to provide a specific removal efficiency of a predefined particle size distribution (PSD).

Operation Overview

Stormwater enters the swirl chamber inducing a gentle swirling flow pattern and enhancing gravitational separation. Sinking pollutants stay in the swirl chamber while floatables are stopped at the baffle wall. Vortechs systems are usually sized to efficiently treat the frequently occurring runoff events and are primarily controlled by the low flow control orifice. This orifice effectively reduces inflow velocity and turbulence by inducing a slight backwater that is appropriate to the site.

During larger storms, the water level rises above the low flow control orifice and begins to flow through the high flow control. Any layer of floating pollutants is elevated above the invert of the Floatables Baffle Wall, preventing release. Swirling action increases in relation to the storm intensity, while sediment pile remains stable. When the storm drain is flowing at peak capacity, the water surface in the system approaches the top of the high flow control. The Vortechs system will be sized large enough so that previously captured pollutants are retained in the system, even during these infrequent events.

As a storm subsides, treated runoff decants out of the Vortechs system at a controlled rate, restoring the water level to a dry-weather level equal to the invert of the inlet pipe. The low water level facilitates easier inspection and cleaning, and significantly reduces maintenance costs by reducing pump-out volume.

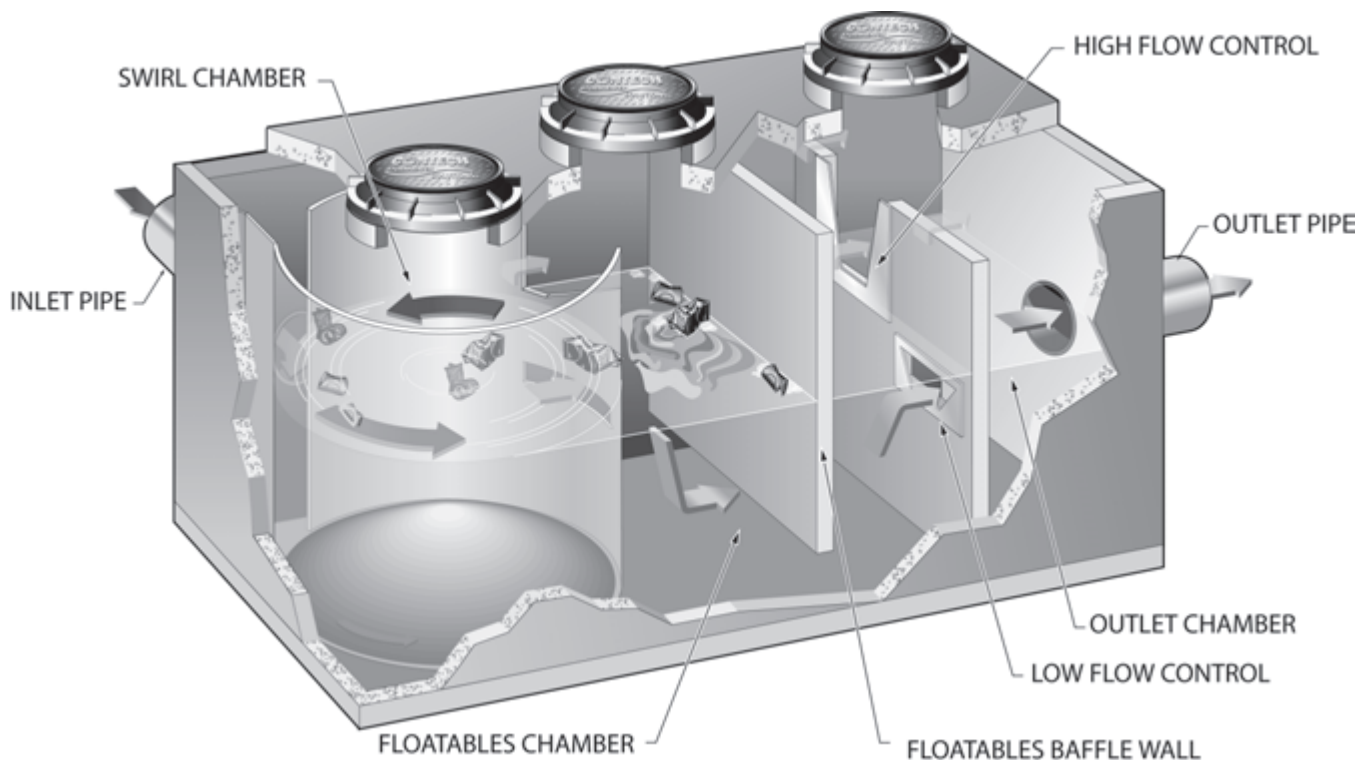
Design Basics

Each Vortechs system is custom designed based on site size, site runoff coefficient, regional precipitation intensity distribution, and anticipated pollutant characteristics. There are two primary methods of sizing a Vortechs system. The first is to determine which model size provides the desired removal efficiency at a given flow for a defined particle size or PSD. The second and more in depth method is the summation of Rational Rainfall Method™ which uses a summation process described below in detail and is used when a specific removal efficiency of the net annual sediment load is required.

Typically Vortechs systems are designed to achieve an 80% annual solids load reduction based on lab generated performance curves for either 50- μm particles, or a particle gradation found in typical urban runoff (see performance section of this manual for more information).

The Rational Rainfall Method™

Differences in local climate, topography and scale make every site hydraulically unique. It is important to take these factors into consideration when estimating the long-term performance of any stormwater treatment system. The Rational Rainfall Method combines site-specific information with laboratory generated performance data, and local historical precipitation records to estimate removal efficiencies as accurately as possible.



Short duration rain gauge records from across the United States and Canada were analyzed to determine the percent of the total annual rainfall that fell at a range of intensities. US stations' depths were totaled every 15 minutes or hourly and recorded in 0.01-inch increments. Depths were recorded hourly with 1-mm resolution at Canadian stations. One trend was consistent at all sites; the vast majority of precipitation fell at low intensities and high intensity storms contributed relatively little to the total annual depth.

These intensities, along with the total drainage area and runoff coefficient for each specific site, are translated into flow rates using the Rational Rainfall Method. Since most sites are relatively small and highly impervious, the Rational Rainfall Method is appropriate. Based on the runoff flow rates calculated for each intensity, operating rates within a proposed Vortechs system are determined. Performance efficiency curve determined from full scale laboratory tests on defined sediment PSDs is applied to calculate solids removal efficiency. The relative removal efficiency at each operating rate is added to produce a net annual pollutant removal efficiency estimate.

Once a system size is established, the internal elements of the system are designed based on information provided by the site engineer. Flow control sizes and shapes, sump depth, oil spill storage capacity, sediment storage volume and inlet and outlet orientation are determined for each system. In addition, bypass weir calculations are made for off-line systems.

Flow Control Calculations

Low Flow Control

The low flow control, or orifice, is typically sized to submerge the inlet pipe when the Vortechs system is operating at 20% of its treatment capacity. The orifice is typically a Cippoletti shaped aperture defined by its flat crest and sides which incline outwardly at a slope of 1 horizontal to 4 vertical.

$$Q_{\text{orifice}} = C_d \cdot A \cdot \sqrt{2gh}$$

Where:

Q_{orifice} = flow through orifice, cfs (L/s)

C_d = orifice coefficient of discharge = 0.56 (based on lab tests)

A = orifice flow area, ft² (m²) (calculated by orifice geometry)

h = design head, ft (m) (equal to the inlet pipe diameter)

g = acceleration due to gravity (32.2-ft/s² (9.81-m/s²))

The minimum orifice crest length is 3-in (76-mm) and the minimum orifice height is 4-in (102-mm). If flow must be restricted beyond what can be provided by this size aperture, a Fluidic-Amp™ HydroBrake flow control will be used. The HydroBrake allows the minimum flow constriction to remain at 3-in (76-mm) or greater while further reducing flow due to its unique throttling action.

High Flow Control

The high flow control, or weir, is sized to pass the peak system capacity minus the peak orifice flow when the water surface elevation is at the top of the weir. This flow control is also a Cippoletti type weir.

The weir flow control is sized by solving for the crest length and head in the following equation:

$$Q_{\text{weir}} = C_d \cdot L \cdot (h)^{3/2}$$

Where:

Q_{weir} = flow through weir, cfs (L/s)

C_d = Cippoletti weir coefficient = 3.37 (based on lab testing)

h = available head, ft (m) (height of weir)

L = design weir crest length, ft (m)

Bypass Calculations

In most all cases, pollutant removal goals can be met without treating peak flow rates and it is most feasible to use a smaller Vortechs system configured with an external bypass. In such cases, a bypass design is recommended by Contech Engineered Solutions for each off-line system. To calculate the bypass capacity, first subtract the system's treatment capacity from the peak conveyance capacity of the collection system (minimum of 10-year recurrence interval). The result is the flow rate that must be bypassed to avoid surcharging the Vortechs system. Then use the following arrangement of the Francis formula to calculate the depth of flow over the bypass weir.

$$H = (Q_{\text{bypass}} / (C_d \cdot L))^{2/3}$$

Where:

H = depth of flow over bypass weir crest, ft (m)

Q_{bypass} = required bypass flow, cfs (L/s)

C_d = discharge coefficient = 3.3 for rectangular weir

L = length of bypass weir crest, ft

The bypass weir crest elevation is then calculated to be the elevation at the top of the Cippoletti weir minus the depth of flow.

Hydraulic Capacity

In the event that the peak design flow from the site is exceeded, it is important that the Vortechs system is not a constriction to runoff leaving the site. Therefore, each system is designed with enough hydraulic capacity to pass the 100-year flow rate. It is important to note that at operating rates above 100-gpm/ft² (68-Lps/m²) of the swirl chamber area (peak treatment capacity), captured pollutants may be lost.

When the system is operating at peak hydraulic capacity, water will be flowing through the gap over the top of the flow control wall as well as the orifice and the weir.

Performance

Full Scale Laboratory Test Results

Laboratory testing was conducted on a full scale Vortechs model 2000. The 150- μm curve demonstrates the results of tests using particles that passed through a 60-mesh sieve and were retained on a 100-mesh sieve. The 50- μm curve is based on tests of particles passing through a 200-mesh sieve and retained on a 400-mesh sieve (38- μm). A gradation with an average particle size (d50) of 80- μm , containing particles ranging from 38–500- μm in diameter was used to represent typical stormwater solids. (Table 1)

Particle Size Distribution (μm)	Percentage of Sample Make-Up
<63	42%
63 - 75	4%
75 - 100	9%
100 - 150	7%
150 - 250	11%
>250	27%

Table 1: Particle gradation of typical urban runoff used for efficiency curve

As shown, the Vortechs system maintains positive total suspended solids (TSS), defined by the tested gradations, removal efficiencies over the full range of operating rates. This allows the system to effectively treat all runoff from large, infrequent design storms, as well as runoff from more frequent low-intensity storms.

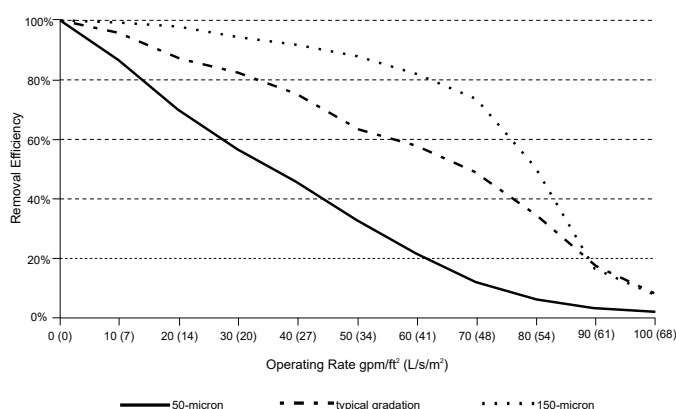


Figure 1: Vortechs model 2000 Removal Efficiencies

Typical Vortechs systems are designed to treat peak flows from 1.6-cfs (45-L/s) up to 30-cfs (850-L/s) online without the need for bypass. However, external bypasses can be configured to convey peak flows around the system if treatment capacity is exceeded. The system can also be configured to direct low flows from the last chamber of the system to polishing treatment when more stringent water quality standards are imposed. In all configurations, high removal efficiencies are achieved during the lower intensity storms, which constitute the majority of annual rainfall volume.

Full report available at www.conteches.com/vortechs.

Laboratory Testing

Full reports available at www.conteches.com/vortechs

Technical Bulletin 1: Removal Efficiencies for Selected Particle Gradations

Technical Bulletin 2: Particle Distribution of Sediments and the Effect on Heavy Metal Removal

Technical Bulletin 3: Sizing for Net Annual Sediment Removal

Technical Bulletin 3a: Determining Bypass Weir Elevation for Off-Line Systems

Technical Bulletin 4: Modeling Long Term Load Reduction: The Rational Rainfall Method

Technical Bulletin 5: Oil Removal Efficiency

Field Monitoring

Following are brief summaries of the field tests completed to date.

Full reports available at www.conteches.com/vortechs

DeLorme Mapping Company

Yarmouth, ME

Contech Engineered Solutions

Prior to this premier field test of the Vortechs system, Contech developed an extensive body of laboratory data to document total suspended solids (TSS) removal efficiency. Contech performed this field study in order to compare the performance predicted using laboratory data to the performance of a correctly sized system in the field.

The study site was the headquarters of DeLorme Mapping in Yarmouth, Maine. The building, driveway, parking lot and ancillary facilities were constructed in 1996. A Vortechs model 11000 was installed to treat runoff from the 300-space, 4-acre (1.62-ha) parking lot.

Testing Period	May 1999 to Dec 1999
# of Storms Sampled	20
Mean Influent Concentration	328-mg/L
Mean Effluent Concentration	60-mg/L
Removal Efficiency	82%

The main purpose of the DeLorme study was to verify that the sizing methodology developed from our full-scale laboratory testing was valid and an accurate means of predicting field performance. The results of the study confirmed our sizing methodology.

Village Marine Drainage

Lake George, NY

New York State Department of Environmental Conservation, Division of Water

The New York State DEC used funds obtained in a Section 319 grant to initiate a study of the effectiveness of the Vortechs system to remove sediment and other pollutants transported

by stormwater to Lake George, Lake George Village, New York. "Since the 1970s, when there was a rapid increase in the rate and concentration of development along the southwestern shores of Lake George, we have been concerned about the impact of stormwater discharges into the lake," said Tracy West, co-author of the study.

Testing Period	Feb 2000 to Dec 2000
# of Storms Sampled	13
Mean Influent Concentration	801-mg/L
Mean Effluent Concentration	105-mg/L
Removal Efficiency	88%

The study concluded that the Village and Town of Lake George should consider installing additional Vortechs systems in areas where sedimentation and erosion have been identified as non-point source pollution problems.

Harding Township Rest Area Harding Township, NJ RTP Environmental Associates

This third party evaluation was performed under a U.S. Environmental Protection Agency grant, administered by the New Jersey Department of Environmental Protection. A. Roger Greenway, principal of RTP Environmental Associates, Inc., conducted the study in conjunction with Thonet Associates, which assisted with data analysis and helped develop best management practices (BMP) recommendations.

The Vortechs model 4000 was sized to handle a 100-year storm from the 3 acre (1.21 ha) paved parking area at the Harding Rest Stop, located off the northbound lane of I-287 in Harding Township, New Jersey.

Testing Period	May 1999 to Nov 2000
# of Storms Sampled	5
Mean Influent Concentration (TSS)	493-mg/L
Mean Effluent Concentration (TSS)	35-mg/L
Removal Efficiency (TSS)	93%
Mean Influent Concentration (TPH)	16-mg/L
Mean Effluent Concentration (TPH)	5-mg/L
Removal Efficiency (TPH)	67%

The study concluded that truck rest stops and similar parking areas would benefit from installing stormwater treatment systems to mitigate the water quality impacts associated with stormwater runoff from these sites.

Timothy Edwards Middle School

South Windsor, CT

UCONN Department of Civil & Environmental Engineering

This study of the Vortechs system was published as a thesis by Susan Mary Board, as part of the requirements for a Master of Science degree from the University of Connecticut. Her objective was to determine how well the Vortechs system retained pollutants from parking lot runoff, including total suspended solids (TSS), nutrients, metals, and petroleum hydrocarbons.

A Vortechs model 5000 was installed in 1998 to treat runoff from the 82-space parking lot of Timothy Edwards Middle School. The entire watershed was approximately 2 acres (0.81 ha), and was 80% impervious.

Testing Period	Jul 2000 to Apr 2001
# of Storms Sampled	weekly composite samples taken
Mean Influent Concentration	324-mg/L
Mean Effluent Concentration	73-mg/L
Removal Efficiency	77%

Additionally, the Vortechs system was particularly effective in removing zinc (85%), lead (46%), copper (56%), phosphorus (67%) and nitrate (54%).

The study concluded that the Vortechs system significantly reduced effluent concentrations of many pollutants in stormwater runoff.



Maintenance

The Vortechs system should be inspected at regular intervals and maintained when necessary to ensure optimum performance. The rate at which the system collects pollutants will depend more heavily on site activities than the size of the unit, e.g., unstable soils or heavy winter sanding will cause the swirl chamber to fill more quickly but regular sweeping will slow accumulation.

Inspection

Inspection is the key to effective maintenance and is easily performed. Pollutant deposition and transport may vary from year to year and regular inspections will help ensure that the system is cleaned out at the appropriate time. Inspections should be performed twice per year (i.e. spring and fall) however more frequent inspections may be necessary in equipment washdown areas and in climates where winter sanding operations may lead to rapid accumulations. It is useful and often required as part of a permit to keep a record of each inspection. A simple inspection and maintenance log form for doing so is provided on the following page, and is also available on conteches.com.

The Vortechs system should be cleaned when inspection reveals that the sediment depth has accumulated to within 12 to 18 inches (300 to 450 mm) of the dry-weather water surface elevation. This determination can be made by taking two measurements with a stadia rod or similar measuring device; one measurement from the manhole opening to the top of the sediment pile and the other from the manhole opening to the water surface. Note: To avoid underestimating the volume of sediment in the chamber, the measuring device must be carefully lowered to the top of the sediment pile. Finer, silty particles at the top of the pile typically offer less resistance to the end of the rod than larger particles toward the bottom of the pile.

Cleaning

Cleaning of the Vortechs system should be done during dry weather conditions when no flow is entering the system. Clean-out of the Vortechs system with a vacuum truck is generally the most effective and convenient method of excavating pollutants from the system. If such a truck is not available, a "clamshell" grab may be used, but it is difficult to remove all accumulated pollutants using a "clamshell".

In installations where the risk of petroleum spills is small, liquid contaminants may not accumulate as quickly as sediment. However, an oil or gasoline spill should be cleaned out immediately. Motor oil and other hydrocarbons that accumulate on a more routine basis should be removed when an appreciable layer has been captured. To remove these pollutants, it may be preferable to use adsorbent pads to solidify the oil since these pads are usually much easier to remove from the unit individually and less expensive to dispose of than the oil/water emulsion that may be created by vacuuming the oily layer. Floating trash can be netted out if you wish to separate it from the other pollutants.

Cleaning of a Vortechs system is typically done by inserting a vacuum hose into the swirl chamber and evacuating this chamber of water and pollutants. As water is evacuated, the water level outside of the swirl chamber will drop to a level roughly equal to the crest of the lower aperture of the swirl chamber.

Floating pollutants will decant into the swirl chamber as the water level is drawn down. This allows most floating material to be withdrawn from the same access point above the swirl chamber. Floating material that does not decant into the swirl chamber during draw down should be skimmed from the baffle chamber. Sediment may accumulate outside the swirl chamber. If this is the case, it may be necessary to pump out other chambers. It is advisable to check for sediment accumulation in all chambers during inspection and maintenance.

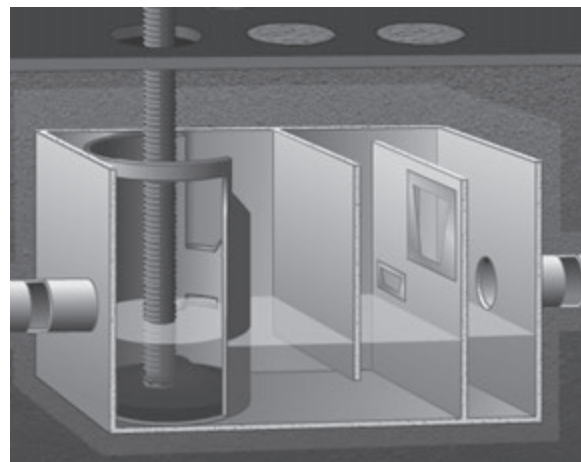
These maintenance recommendations apply to all Vortechs systems with the following exceptions:

1. It is strongly recommended that when cleaning systems larger than the Model 16000 the baffle chamber be drawn down to depth of three feet prior to beginning clean-out of the swirl chamber. Drawing down this chamber prior to the swirl chamber reduces adverse structural forces pushing upstream on the swirl chamber once that chamber is empty.
2. Entry into a Vortechs system is generally not required as cleaning can be done from the ground surface. However, if manned entry into a system is required the entire system should be evacuated of water prior to entry regardless of the system size.

Manhole covers should be securely seated following cleaning activities to prevent leakage of runoff into the system from above and also to ensure proper safety precautions. If anyone physically enters the unit, Confined Space Entry procedures need to be followed.

Disposal of all material removed from the Vortechs system should be done in accordance with local regulations. In many locations, disposal of evacuated sediments may be handled in the same manner as disposal of sediments removed from catch basins or deep sump manholes. Check your local regulations for specific requirements on disposal.

Contech has created a network of Certified Maintenance Providers (CCMP's) to provide maintenance on Vortechs systems. To find a CCMP in your area please visit www.conteches.com/maintenance.



Vortechs Inspection & Maintenance Log

Vortech Model: _____ Location: _____

[illegible]

1. The water depth to sediment is determined by taking two measurements with a stadia rod: one measurement from the manhole opening to the top of the sediment pile and the other from the manhole opening to the water surface. If the difference between these measurements is less than eighteen inches the system should be cleaned out. Note: To avoid underestimating the volume of sediment in the chamber, the measuring device must be carefully lowered to the top of the sediment pile.
2. For optimum performance, the system should be cleaned out when the floating hydrocarbon layer accumulates to an appreciable thickness. In the event of an oil spill, the system should be cleaned immediately.



Support

- Drawings and specifications are available at www.conteches.com.
- Site-specific design support is available from our engineers.

800-338-1122
www.conteches.com

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Contech Engineered Solutions LLC provides site solutions for the civil engineering industry. Contech's portfolio includes bridges, drainage, sanitary sewer, stormwater, earth stabilization and wastewater treatment products. For information on other Contech division offerings, visit conteches.com or call 800.338.1122

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Hydrodynamic Separation



Solutions
Guide

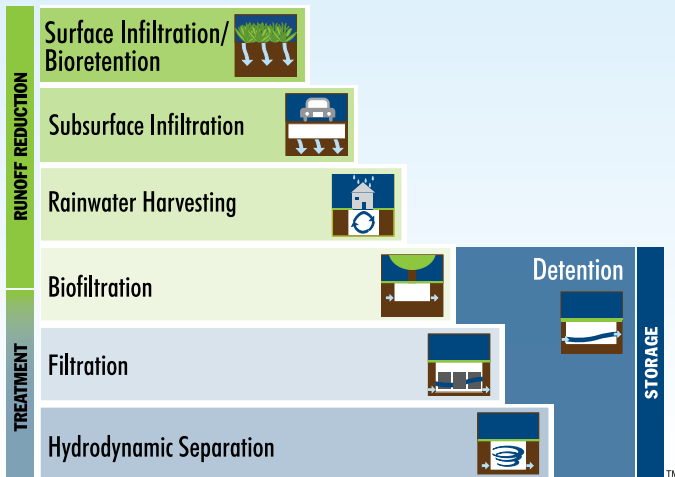


Hydrodynamic Separation



Selecting the Right Stormwater Solution Just Got Easier...

It's simple to choose the right stormwater solution to achieve your goals with the Contech Stormwater Solutions Staircase. First, select the runoff reduction practices that are most appropriate for your site, paying particular attention to pretreatment needs. If the entire design storm cannot be retained, select a treatment best management practice (BMP) for the balance. Finally, select a detention system to address any outstanding downstream erosion.



© 2015 Contech Engineered Solutions LLC

Removing Pollutants with Hydrodynamic Separation

Contech's hydrodynamic separation (HDS) products have been providing reliable stormwater treatment solutions for more than 20 years. With performance proven in the lab and in the field at sites across the country, these systems are widely accepted for effective solids removal. They are an optimal choice for pretreatment systems, especially efficient on gross solids, trash and debris, while also removing total suspended solids (TSS).

Fundamentals of HDS

- Create a low velocity vortex action to:
 - Increase efficiency by increasing length of flow path and eliminating short circuiting
 - Concentrate solids in stable, low velocity flow field
- Incorporate flow controls to:
 - Minimize turbulence and velocity
 - Prevent flow surges and resuspension
 - Retain floating pollutants. Provide easy access to captured pollutants to make maintenance easy

Learn more about hydrodynamic separation at www.ContechES.com/treatment

DYOHDS™ Tool Design Your Own Hydrodynamic Separator

Features

- Choose from three HDS technologies - CDS®, Vortechs® and VortSentry® HS
- Site specific questions ensure the selected unit will comply with site constraints
- Unit size based on selected mean particle size and targeted removal percentage
- Localized rainfall data allows for region specific designs
- PDF report includes detailed performance calculations, specification and standard drawing for the unit that was sized



Design Your Own (DYO) Hydrodynamic Separator
online at www.ContechES.com/dyohds

Applications

HDS products work well as standalone or end-of-pipe treatment systems and can easily be implemented in a retrofit scenario. They are particularly effective at removal of solids, trash and debris – and can help you meet TMDL requirements for these pollutants. HDS systems are also optimal pretreatment systems – and an important building block in a low impact development (LID) design. By removing solids, trash and debris prior to detention, infiltration or re-use systems, you can significantly increase their service life.

Water Quality

HDS products provide high-performance stormwater pollutant removal. These systems are effective in removing solids to meet water quality goals and can be designed to achieve site treatment goals for TSS or oil.



Pretreatment for Low Impact Development

(LID) Designs

Hydrodynamic separation systems installed as pretreatment reduce downstream loading to reduce maintenance.

Inlet and Outlet Pollution Control

Our HDS products are especially effective for solids and trash and debris. They can be installed at either the inlet or outlet of a drainage system to prevent pollutants from being discharged into lakes, streams or the ocean.



VortSentry HS is an effective option where space is limited



CDS protects detention system from sediment build-up and reduces maintenance



A CDS was installed to pretreat for a bioswale in Newport Beach, CA

The CDS is a swirl concentrator hybrid technology that provides continuous deflective separation – a combination of swirl concentration and indirect screening – into a uniquely capable product. It effectively screens, separates and traps debris, sediment and oil from stormwater runoff and is an ideal system to meet trash Total Maximum Daily Load (TMDL) requirements.

Features & Benefits

One-of-a-Kind Screening Technology

- Captures and retains 100% of floatables and neutrally buoyant debris 2.4mm or larger
- Effectively removes solids down to 100µm
- Self-cleaning screen – the only non-blocking screening technology available
- Water velocities within the swirl chamber continually shear debris off the screen to keep it clean
- Various screening apertures available

Proven Performance

CDS has been verified by some of the most stringent stormwater technology evaluation organizations in North America, including:

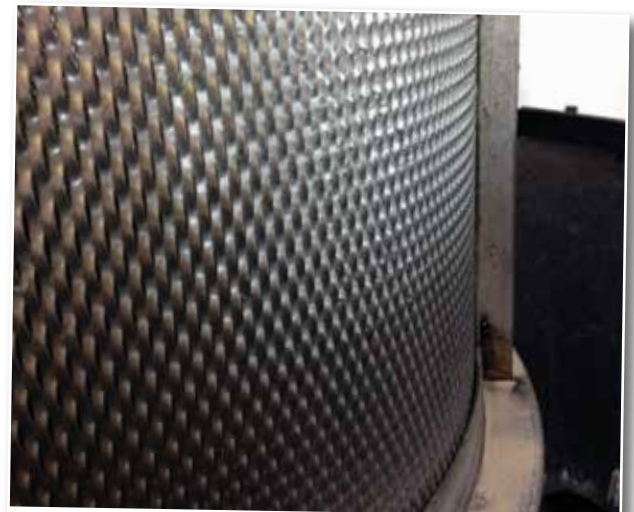
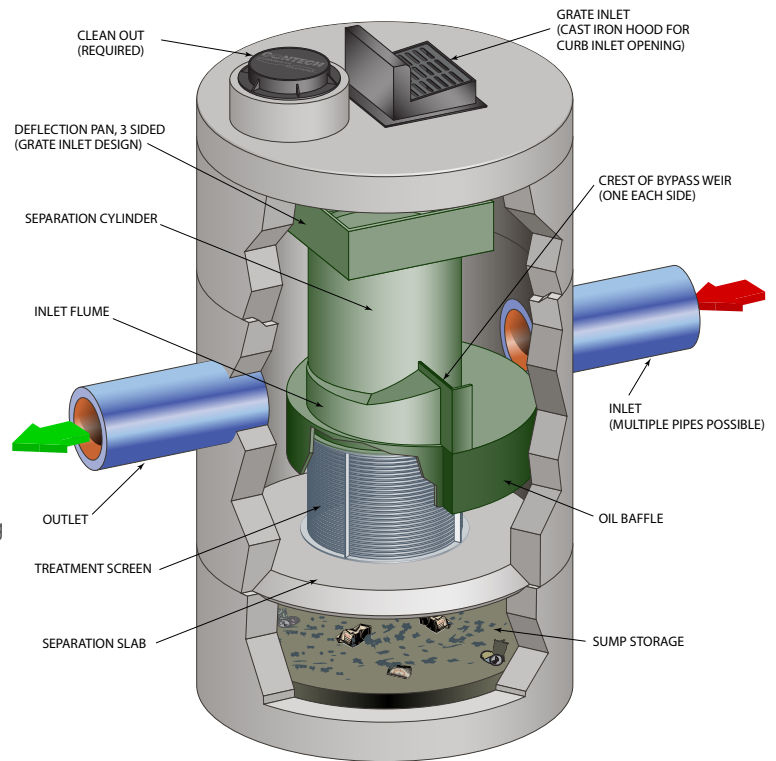
- Washington State Department of Ecology
- New Jersey Department of Environmental Protection
- Canadian Environmental Technology Verification (ETV)

Excellent Pollutant Retention

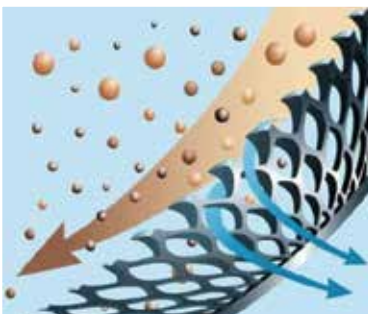
- Isolated Storage Sump eliminates scour potential
- Oil Baffle improves hydrocarbon removal

Multiple Options to Meet Site-Specific Needs

- Inline, offline, grate inlet and drop inlet configuration
- Accepts multiple pipe inlets and 90-180° angles – eliminate the need for junction manholes
- Internal and external peak bypass options available



The CDS screen captures and retains 100% of floatables and neutrally buoyant debris 2.4mm+



Continuous deflective separation — water velocities within the swirl chamber continually shear debris off the screen to keep it clean



The Vortechs system's swirl concentrator and flow controls work together to create a low energy environment, ideal for capturing and storing fine particles and other pollutants of concern. With comprehensive lab and field testing, the system delivers proven results and site-specific solutions.

Features & Benefits

Shallow Profile

- Easy and cost-effective installation, especially on sites with high groundwater or bedrock
- Typical invert only 3 feet below pipe

Effective Fine Solids Removal

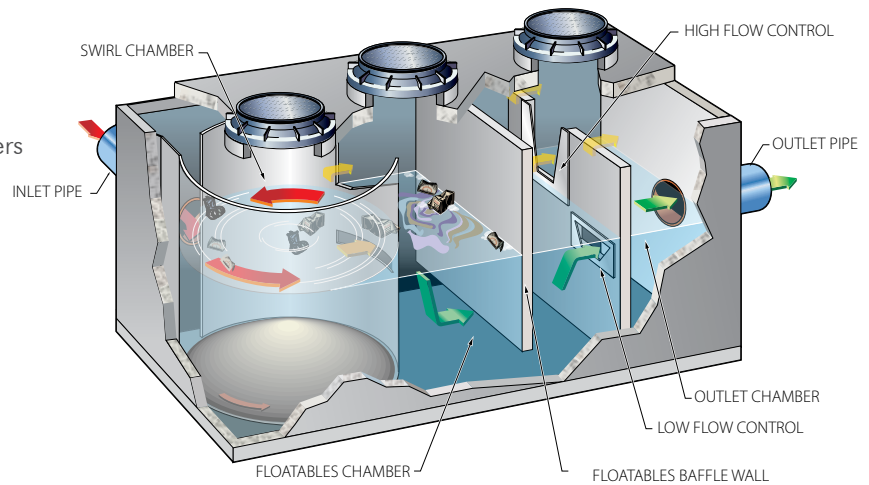
- Large swirl chamber – Enhances very fine particle removal (down to 50 microns)
- Flow controls reduce inflow velocity and increase residence time
- Largest treatment zone surface area of any swirl concentrator system available

Easy Maintenance

- Unobstructed access to stored pollutants
- Sealed swirl chamber decreases clean-out volume

Proven Performance

- Performance verified by NJ CAT and WA Ecology



Large diameter swirl chamber for enhancement of sediment removal in a low profile unit

Our systems are widely accepted for effective solids removal ❖ ❖ ❖



VortSentry® HS

The VortSentry HS hydrodynamic separator has a small footprint making it an effective pretreatment or treatment option for projects where space is at a premium.

Helical Flow Pattern

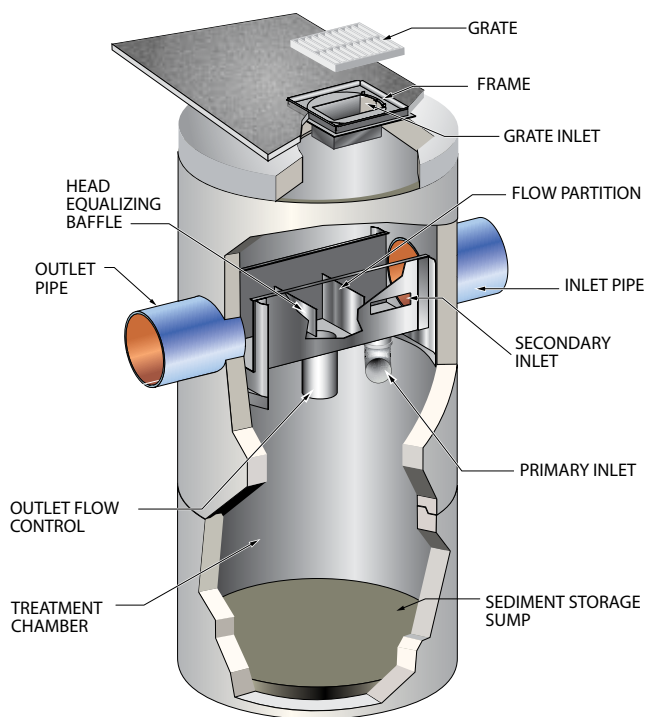
- Enhances trapping and containment of pollutants
- Provides effective removal of settleable solids and floating contaminants

Unique Internal Bypass

- Accepts a wide range of pipe sizes to treat and convey a wide range of flows
- Higher flows can be diverted without the use of external bypass structures
- Secondary inlet enhances floatable debris capture

Flexible, Compact Design

- Small manhole footprint
- Inlet and grated inlet configuration available



VortSentry®

Similar to the VortSentry HS, the VortSentry is a compact manhole hydrodynamic separator; however it does not have the same treatment flow routing components/controls as the VortSentry HS does. This limits the flow rate and pipe sizes the system can accept. The VortSentry has received approval and is accepted by many municipalities, and is currently available in only those areas. Please see www.ContechES.com/vortsentry for more information.



VSHS unique internal bypass design treats high flows and bypasses peak flow, eliminating washout

Maintenance

All stormwater treatment systems – whether natural or manufactured – should be maintained regularly. Despite the widespread implementation of BMPs, water quality goals will not be met if the treatment structures are not properly cleaned and maintained.

Systems vary in their maintenance needs, and the selection of a cost-effective and easy-to-access treatment system can mean a huge difference in maintenance expenses for years to come.

We design our products to minimize maintenance and make it as easy and inexpensive as possible to keep our systems working properly.

Inspection

Inspection is the key to effective maintenance. Pollutant deposition and transport may vary from year to year and site to site. Semi-annual inspections will help ensure that the system is cleaned out at the appropriate time. Inspections should be performed more frequently where site conditions may cause rapid accumulation of pollutants.

Vortechs, VortSentry and VortSentry HS

These systems should be cleaned out when sediment has accumulated to a specific depth (refer to the respective maintenance guidelines for details). Maintaining these systems is easiest when there is no flow entering the system. A vacuum truck is generally the most effective and convenient method of excavating pollutants from the systems.

CDS

The recommended cleanout of solids within the CDS unit's sump should occur at 75% of the sump capacity. Access to the CDS unit is typically achieved through two manhole access covers – one allows inspection and cleanout of the separation chamber and sump, and another allows inspection and cleanout of sediment captured and retained behind the screen. A vacuum truck is recommended for cleanout of the CDS unit and can be easily accomplished in less than 30 minutes for most installations.



A vacuum truck excavates pollutants from the systems



A CDS unit can be easily cleaned in less than 30 minutes

Find maintenance information for all our products at
www.ContechES.com/maintenance ❖ ❖ ❖



Next Steps

Learn more

See our HDS systems in action at www.ContechES.com/videos

Connect with Us

We're here to make your job easier – and that includes being able to get in touch with us when you need to. www.ContechES.com/localresources

Start a Project

If you are ready to begin a project, visit us at www.ContechES.com/startaproject

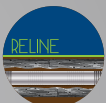
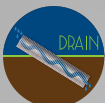
Contech Engineered Solutions LLC provides site solutions for the civil engineering industry. Contech's portfolio includes bridges, drainage, retaining walls, sanitary sewer, stormwater, erosion control and soil stabilization products.

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COMPLETE SITE SOLUTIONS



Stormwater Solutions

Helping to satisfy stormwater management requirements on land development projects

- Stormwater Treatment
- Detention/Infiltration
- Rainwater Harvesting
- Biofiltration/Bioretenation

Pipe Solutions

Meeting project needs for durability, hydraulics, corrosion resistance, and stiffness

- Corrugated Metal Pipe (CMP)
- Steel Reinforced Polyethylene (SRPE)
- High Density Polyethylene (HDPE)
- Polyvinyl Chloride (PVC)

Structures Solutions

Providing innovative options and support for crossings, culverts, and bridges

- Plate, Precast & Truss bridges
- Hard Armor
- Retaining Walls
- Tunnel Liner Plate

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FSC

A-73



Experience

H2M

Sidney B. Browne & Son LLP
Greenman Pederson Inc.

Education

B.S., Civil Engineering, Clarkson
University

License/Certifications

Engineer in Training, NY

Brian Murrell, EIT

Senior Discipline Engineer

Mr. Murrell has over 26 years of civil engineering experience which includes design and management of projects for both private and municipal clients. His experience includes design of municipal roadway, drainage and parking lot improvement projects, private commercial site plans, private residential site plans, single family residential subdivisions and multifamily subdivisions.

Selected project experience:

- Towne House at Lido Beach – Drainage and Paving Improvements: Design of drainage improvements within portions of the existing ±13 acre condominium complex where flooding problems have been occurring. Due to groundwater conditions, a shallow chamber system has been designed to supplement the site's aging drainage system and to provide the required stormwater runoff storage volume. While addressing the drainage issues, the plans also include repaving the existing asphalt parking areas within the complex.

Prior to joining H2M, Mr. Murrell worked for a consulting firm where he most recently has been involved in the Town of Babylon design components of the Wyandanch Rising Transit Oriented Development project near the Wyandanch station of the Long Island Rail Road.

Selected Town of Babylon project experience:

- Wyandanch Rising –Phase 1 Roadway (Town of Babylon): Design of all roadways within the Phase 1 area (north of LIRR tracks) of the Transit Oriented Development in Wyandanch (approximately ±5,000 linear feet of roadway). Design included grading, drainage, roadway alignment and lighting, as well as coordination with the utility companies to install their underground facilities within the roadway right of ways.
- Wyandanch Rising – Phase 1 Sewer (Town of Babylon): Design of gravity sewer mains to serve the future proposed buildings of Wyandanch Rising – Phase 1 (approximately ±2,000 linear feet of gravity sewer). Project involved working with the Town of Babylon, Town planning consultants and private developer consultants to provide proper connection points for all future users within the Transit Oriented Development.
- Straight Path (CR 2) Roadway and Traffic Signal Improvements: Design of traffic calming and aesthetic improvements to Straight Path through the Wyandanch Rising project area. Project design included the narrowing of the roadway, new traffic signals, bus stop locations, street lighting, connection with new transit plaza and associated roadways, and the addition of planted roadway medians as part of the Town and County's overall redevelopment of the train station area in Wyandanch.
- Wyandanch Railroad Station Commuter Parking: Design of the replacement commuter surface parking necessary to accommodate the Transit Oriented Development in Wyandanch. Work involved preparation of temporary and permanent parking area designs to replace the existing parking that was being removed due to the development adjacent to the existing Wyandanch train station. Design included drainage, grading, sediment and erosion control, site lighting and pavement design.
- Head Start Facility (Town of Babylon): Prepared sewer connection and on-site sanitary abandonment plans and SCDHS/SCDPW applications for the new Head Start facility in Wyandanch.
- Geiger Lake Park Improvements, Wyandanch/Deer Park (Town of Babylon): Design services for the development of Geiger Lake Park for the Town of Babylon. Design responsibilities included temporary on-site sanitary facilities for the spray park restroom facilities, wet extended detention pond (for treatment of adjacent neighborhood stormwater runoff drainage prior to entering Geiger Lake) and playground to supplement existing spray park.



Brian Murrell, EIT

Senior Discipline Engineer

Selected project experience prior to H2M:

Selected Nassau County DPW road design experience:

- Meadowmere Park Drainage Improvement, Inwood, NY (NCDPW / Town of Hempstead): Design engineer for the reconstruction of eight streets (approximately 4,250 feet) in a community that experienced tidal flooding on a regular basis. The design included road raising and new drainage systems with concrete valve structures and rubber tide gates to protect against tidal flooding. Due to the minimal existing front yard building setbacks, the design included extensive grading of adjacent yards and addition of yard drains to relieve any stormwater collecting on low lying properties.
- Bay Park Road Raising and Drainage Improvement, East Rockaway, NY (NCDPW / Town of Hempstead / Village of East Rockaway): Design engineer for the reconstruction of ten streets in a community that experienced tidal flooding on a regular basis. The design included road raising and new drainage systems with concrete valve structures and rubber tide gates to protect against tidal flooding. Transitions from new road elevations to adjoining properties, including property restorations, were presented on individual property improvement plans. Low lying properties were provided with yard drains to relieve potential stormwater ponding.

Selected hospital design experience:

- Emergency Department Expansion, North Shore University Hospital, Manhasset, NY (NSLIJ): Design engineer responsible for grading, drainage, re-routing of existing utilities and access road relocation for the emergency department expansion.
- Incubator laboratory Expansion, North Shore University Hospital, Manhasset, NY (NSLIJ): Design engineer responsible for locating retaining walls, re-routing utilities, grading, drainage and access road relocation for proposed southern expansion of building.

Selected athletic field design experience:

- St. Mary's R.C. High School Synthetic Field Installation, Manhasset, NY (Diocese of Rockville Center): Design engineer responsible for grading and sub-surface drainage plans for the installation of a synthetic turf soccer / lacrosse field.

Selected single family and subdivision design experience:

- Stone Hill at North Hills subdivision, North Hills, NY: Design engineer responsible for individual lot plans at the 82 lot, 80 acre subdivision. Lot plans involved situating house and driveway, setting first floor elevations, design of grading and drainage (including underdrain and foundation footing drainage systems) and designing on-site sanitary systems.
- Harbor Ridge Estates subdivision, Port Washington, NY: Design engineer responsible for the site work for the 28 acre senior housing subdivision. Design involved grading, drainage and sewer design to accommodate the 125 homes and approximately 9,000 lf of roadway.
- Single Family Residence, 26 Lloydhaven Drive, Lloyd Harbor, NY: Design engineer on a severely sloped 5.6 acre residential property. Design responsibilities included grading, drainage, on-site sanitary, erosion control and driveway designs. The property included multiple on-site sanitary systems (main house and staff house) requiring approval by SCDHS.
- Single Family Residence, 85 Snake Hollow Road, Lloyd Harbor, NY: Design engineer on the 3.9 acre residential property which included a main house, pool, cabana, extensive driveways and a tennis court. Design responsibilities included grading, drainage, on-site sanitary, erosion control and driveway designs. The property included multiple on-site sanitary systems (main house and pool cabana) requiring approval by SCDHS.

Selected commercial site plan experience:

- Port Washington Tennis Academy, Port Washington, NY: Engineer responsible for site work design, including grading, drainage, parking lot, and locating proposed retaining walls.
- Country Glen Center, Carle Place, NY: Engineer responsible for redesigning existing parking lot including layout and drainage changes to accommodate building changes to the Country Glen Shopping Center in Carle Place.



Inc. Village of Patchogue

River Avenue Drainage Improvements

The Inc. Village of Patchogue needed to prepare a map and plan and construction bid documents for installation of drainage improvements in conjunction with the installation of a low pressure sewer system with a grinder pump station at each home along River Avenue (south of Price Street), Sunset Lane, Price Street and Maple Avenue.

services

Existing drainage systems in the area were limited and not adequate to drain stormwater. Streets were regularly. Groundwater was approximately two feet below grade which limited the function of the on-site sanitary system for the homes. All parcels were within the zero to two year groundwater travel time to the Great South Bay. Several studies have documented the impacts of excessive nitrogen from sanitary systems in reducing dissolved oxygen levels to the detriment of aquatic life and in supporting harmful algal blooms. In conjunction with this study to provide sanitary sewers, we investigated the feasibility of making storm drainage-related improvements to help address existing conditions related to the proposed sanitary sewer improvements. The report potential drainage improvements that could be implemented while the roadways were disturbed during the construction of the sanitary sewers.

The drainage improvements included the installation of approximately 4,750 linear feet of porous concrete gutter, along with drainage pipe and underground stone storage space along the shoulders of each of the roadways. In addition, a shallow vegetated stormwater management basin was proposed to temporarily store excess during storm events. This system was incorporated to help alleviate during storm events and improve drainage in this low-lying section of Patchogue.

During design, we conducted a utility coordination meeting with representatives of National Grid, the Village DPW and the County Water Authority. Our personnel also met with homeowners to review the proposed installation location of the on-site pump station and low pressure sewer connection. Plans were submitted

We worked with the Dormitory Authority of the State of New York (DASNY), County and the Village of Patchogue in order to receive funding through two DASNY grants, an Infrastructure Program Grant provided by County, and the Village of Patchogue Sewer Fund. Remaining funds were bonded by the Village.

We provided a resident engineer during construction. Construction phase services included full time construction inspection, shop drawing review, review of contractor payment requests and periodic meetings. During construction the project scope was expanded to include the abandonment of the existing on site sanitary system at each home.

Client

Inc. Village of Patchogue
14 Baker Street
Patchogue, NY 11772

Joseph Dean
Superintendent
(631) 475-4300

Construction Cost

\$2,229,990 (BID)
\$1,797,490 (CO 1)
\$2,336,150 (CO2)

Completion

2016

Awards

2018 ASCE Long Island Branch
Quality of Life Award

The drainage improvements included the installation of approximately 4,750 linear feet of porous concrete gutter...





College of Staten Island

Road Reconstruction

The College of Staten Island called for reconstruction of two miles of roads including realignment of three roads, relocation of roadway lighting, installation of traffic calming elements, and new signage to improve safety.

services

H2M was retained to assess the condition of the two-mile road that encircles the College of Staten Island campus and make recommendations to improve the

Originally the roads were in poor condition and included several sharp curves and steep gradients. These physical issues combined with limited drainage infrastructure, resulted in roadside erosion; and combined with younger drivers produced a high accident rate. We recommended the installation of curbs and additional drainage infrastructure throughout the road to collect stormwater and minimize erosion. In anticipation of increased vehicle and volumes over the next 20 years, we also utilized a new pavement section, re-aligned sections of the road to provide additional and pedestrian facilities, relocated existing roadway lighting, integrated crosswalks with speed humps, and



The challenge of this project was the need to maintain access to all existing parking lots throughout the campus. Since work had to be completed while school was in session, losing access to parking lots was simply not an option. Therefore, we developed maintenance and phasing plans that maintained access to all parking lots while still allowing parts of the road to be closed for construction.

Client

DASNY
The College of Staten Island

Jack Martin
Project Manager

Construction Cost

\$7,600,000

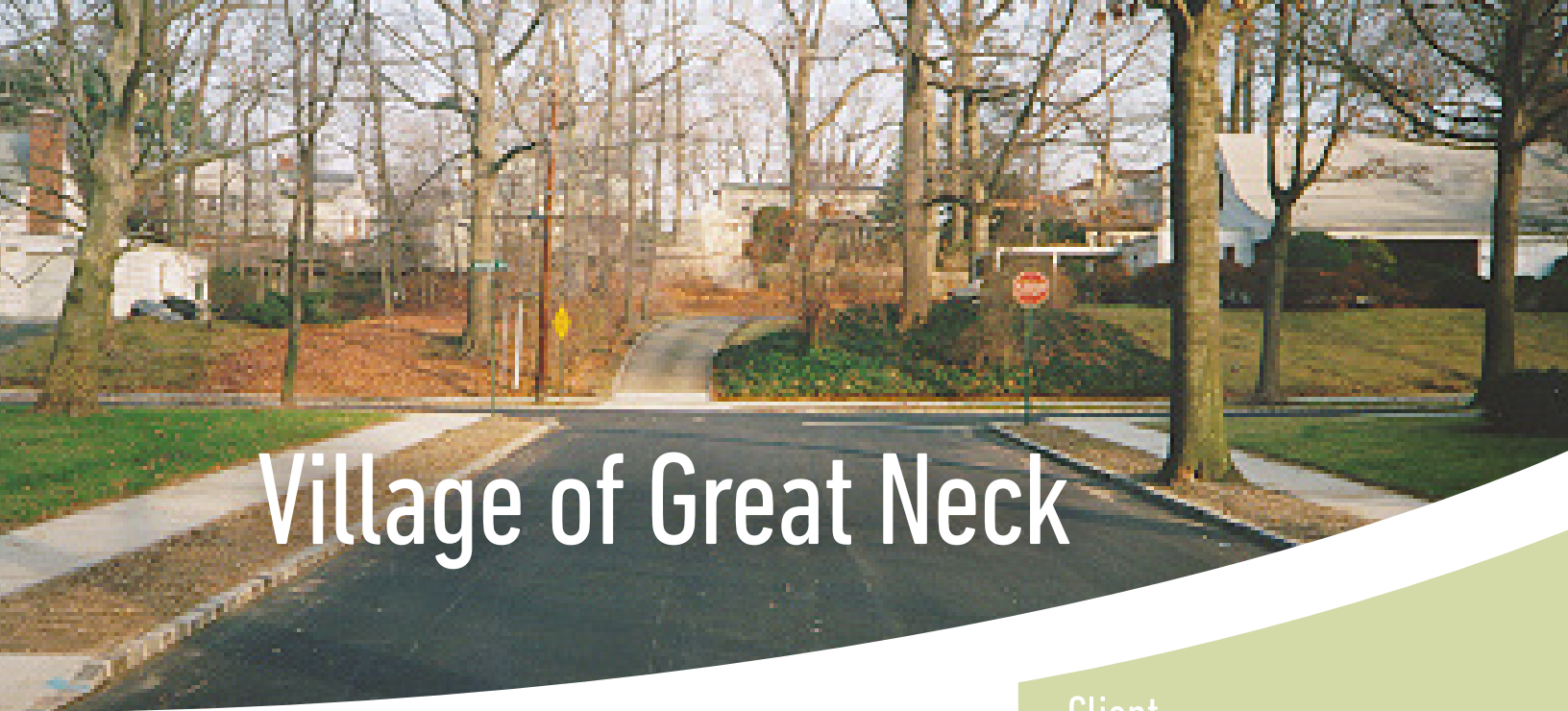
Completed

March 2017

Services Provided

Civil Engineering
Electrical Engineering

We also utilized a new pavement section, realigned sections of the road.....



Village of Great Neck

Roadway Improvement Program

From 1994 to 2012, we have provided ongoing engineering and construction phase services to the Village of Great Neck with their roadway improvement program on an annual basis.

services

The scope of work varied from year to year depending on the existing road construction and degree of deterioration. Roadway have included full pavement replacement, in-place pavement recycling and milling/resurfacing. In addition, projects have included drainage improvement, adjustments, curb replacements, sidewalk replacements and pavement marking.

For each project we provided topographic surveying, engineering design and construction phase services which included part-time inspection of the project



Client

Inc. Village of Great Neck
Ralph Kreitzman
Mayor
(516) 482-0119

Construction Cost

\$1 million (annually)

Completed

1994-2012

Services Provided

Survey
Drainage Design
Roadway Design
Construction Administration
Construction Inspection

Roadway
modifications
have included
full pavement
replacement...



Village of Bayville

Traffic Calming

West Harbor Drive is a four-lane roadway through a developed area in the Village of Bayville consisting mostly of residential use. A large percentage of traffic on West Harbor Drive uses it to bypass the adjacent business districts.

.....

challenge

Limited control devices encouraged speeding. West Harbor Drive had no sidewalk or shoulders, therefore pedestrians walked on the grass and bicyclists rode in the vehicle travel lanes. The Village desired to increase the safety of Village residents by decreasing the incidences of speeding and providing a safe location for bicyclists and pedestrians to enjoy the roadway.

solution

We assigned a survey crew to obtain topographic data for the project area (+/- 2,500 linear feet). The survey data was collected using Trimble Dual Frequency GPS receivers in conjunction with Trimble Total Stations.

After completing a preliminary design, we designed the project to include the installation of bike lanes in each direction, reduction from a four lane roadway to two lane, installation of a striped center median, dedicated left turn lanes, a sidewalk on the south side of West Harbor Drive, and installation of handicap ramps and crosswalks. This project was a Locally Administered Federal Aid Project (LAFAP), and was designed in accordance with the associated guidelines.

Client

Inc. Village of Bayville
34 School Street
Bayville, New York

Douglas Watson
Mayor
(516) 628-1439

Construction Cost

\$391,000

Services Provided

Land Surveying
Civil Engineering

The Village desired to increase the safety of Village residents by decreasing the incidences of speeding...



Town of Hempstead

Streetscape Reconstruction

In 2006, we began working with the Town of Hempstead Department of Planning and Economic Development in their ongoing effort to redevelop business districts at various locations within the Town.

services

Our task was to improve the quality of the streetscape within designated business districts and coordinate the work with the Town's Department of Planning and Economic Development, NCDPW, NYSDOT, business owners, architects, and the Town's Street Lighting Division. Under our scope with the Town, we re-paved, designed new walkways, added new decorative lighting, street furniture, landscaping, and provided the communities with a new look and vision. Some projects were located in West Hempstead, Oceanside, and Uniondale; and involved surveying, complete landscape architecture and civil engineering designs.

H2M completed three streetscape projects for the Town in West Hempstead, Oceanside, and Uniondale. The West Hempstead project, which was completed in 2008, consisted of the reconstruction of approximately 650 linear feet of sidewalk on the south side of Hempstead Turnpike between Nassau Boulevard and Munson Avenue. The Oceanside project consisted of the reconstruction of approximately 1,020 linear feet of sidewalk on the west side of Long Beach Road between Poole Street and Tilrose Avenue, and a 180 foot section of streetscape improvements adjacent to a Town parking lot. The Uniondale project consisted of the reconstruction of approximately 650 linear feet of sidewalk on the east side of Nassau Road between the Southern State Parkway and Uniondale Avenue. These projects included utility mark-out, surveying, streetscape design, preparation of bid documents, and construction administration and inspection. The design consisted of creating a pavement pattern using concrete and decorative brick banding within the sidewalk area and strategically locating decorative sidewalk lighting, wire friendly street trees, benches and trash receptacles, as well as new curbing, handicap ramps, roadway restoration, and grading improvements. These improvements corrected the poor condition of the existing sidewalks, as well as enhanced the visual appearance of the business districts.

The streetscape improvements will begin to connect the various business districts with a more uniform look throughout the Town.

Client

Town of Hempstead
Department of Planning and
Economic Development

Joseph Marshiano
(516) 538-7100

Construction Cost

\$125,000 annually

Completed

2006-2014

Services Provided

Land Surveying
Landscape Architecture
Site Engineering
Construction Administration
Construction Inspection

Improvements corrected the poor condition of the existing sidewalks, as well as enhanced the visual appearance....



THE SENATE
STATE OF NEW YORK

KENNETH P. LAVALLE
SENATOR
1ST SENATE District

28 NORTH COUNTRY ROAD
MOUNT SINAI, NEW YORK 11766
(516) 473-1461

CHAIRMAN, MAJORITY CONFERENCE
CHAIRMAN
COMMITTEE ON HIGHER EDUCATION

July 12, 2018

Honorable. Maria Z. Moore
Village of Westhampton Beach
165 Mill Road
Westhampton Beach, NY 11978

Re: Village of Westhampton Beach Downtown Infrastructure Projects

Dear Mayor Moore,

I am pleased to write in support of two proposals submitted by the Village of Westhampton Beach to the Town of Southampton Community Preservation Fund (CPF), and other funding sources as appropriate:

- **Main Street Improvement Project – Drainage Improvements**
- **Sewer System Phase I**

It is my understanding that these projects support objectives of the Southampton Town CPF Water Quality Improvement Project Plan, Suffolk County Water Resources Management Plan, and Suffolk County Harmful Algal Bloom Action Plan. In addition, because they will contribute to year round vitality and sustainability in the Village's downtown commercial district, they are also aligned with the New York State Downtown Revitalization Initiative and Long Island Regional Economic Development Council priorities.

The proposed projects will improve failing and insufficient stormwater infrastructure and reduce the flow of contaminated stormwater runoff into Monicogue Bay watershed. The sewer system will allow for substantial reduction of nitrogen entering the watershed by eliminating onsite septic systems and installing a conveyance system for sewage treatment that will serve a projected 156 Suffolk County tax lots, primarily commercial. These projects are being undertaken in concert with extensive downtown revitalization plan that also encompasses traffic calming, beautification and pedestrian infrastructure improvements.

Sewage treatment is critically important for the Village and regional economy. These important projects will contribute to a revitalized, more economically and environmentally sustainable downtown business district that supports local and regional tourism and maritime industries. Thank you for allowing me the opportunity to write in support of these projects. I am hopeful that you will give them every consideration

Sincerely yours,

Kenneth P. LaValle



THE ASSEMBLY
STATE OF NEW YORK
ALBANY

COMMITTEES
Ways and Means
Education
Environmental Conservation
Oversight, Analysis and Investigation
Transportation

FRED W. THIELE, JR.
Assemblyman 1st District

CHAIR
Committee on Small Business

July 9, 2018

Hon. Maria Z. Moore
Village of Westhampton Beach
165 Mill Road
Westhampton Beach, NY 11978

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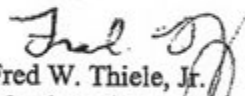
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These important projects will contribute to a revitalized, more economically and environmentally sustainable downtown business district that supports local and regional tourism and maritime industries. I hope they will receive full consideration for funding support.

Sincerely,


Fred W. Thiele, Jr.
Member of Assembly

OFFICE OF THE COUNTY LEGISLATURE
COUNTY OF SUFFOLK

Bridget Fleming
Second Legislative District

Chair
Ways & Means Committee

Vice-Chair
Health Committee



Committee Member
Public Safety
Environment, Planning
and Agriculture
Public Works, Transportation
and Energy

July 11, 2018

Hon. Maria Z. Moore
Village of Westhampton Beach
165 Mill Road
Westhampton Beach, NY 11978

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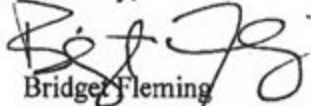
75 Washington Street, P.O. Box 1827, Sag Harbor, NY 11963
Phone: (631) 852-8400 Fax: (631) 852-8404
Email: bridget.fleming@suffolkcountyny.gov

Hon. Maria Z. Moore
July 11, 2018
Page Two

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These important projects will contribute to a revitalized, more economically and environmentally sustainable downtown business district that supports local and regional tourism and maritime industries. I hope they will receive full consideration for funding support.

Sincerely,


Bridget Fleming
Suffolk County Legislator
Second Legislative District

BF/car

BMB ENTERPRISES, LLC
245 East 63rd Street
Suite 1202
New York, NY 10065

(212) 980-1212
Fax: (212) 980-0005
BarryBlaw@gmail.com

July 9, 2018

Hon. Maria Z. Moore
Village of Westhampton Beach
165 Mill Road
Westhampton Beach, NY 11978

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Sincerely,

A handwritten signature in cursive script, appearing to read "Barry Bernstein".

Barry M. Bernstein



July 9, 2018

Hon. Maria Z. Moore
Village of Westhampton Beach
165 Mill Road
Westhampton Beach, NY 11978

Re: Village of Westhampton Beach Downtown Infrastructure Projects

Dear Mayor Moore,

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Sincerely

NICHOLAS A. VERO, ARCHTIECT

A handwritten signature in dark ink, appearing to read 'N. A. Vero', with a long horizontal flourish extending to the right.

Nicholas A. Vero

Joan Boyce, Ltd.
fine jewelry

116-118 Main Street Westhampton Beach, NY 11978

July 9, 2018

Hon. Maria Z. Moore
Village of Westhampton Beach
165 Mill Road
Westhampton Beach, NY 11978

Re: Village of Westhampton Beach Downtown Infrastructure Projects

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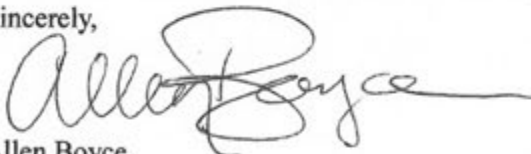
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Sincerely,

A handwritten signature in cursive script, appearing to read "Allen Boyce", with a long horizontal flourish extending to the right.

Allen Boyce

July 9, 2018

Hon. Maria Z. Moore
Village of Westhampton Beach
165 Mill Road
Westhampton Beach, NY 11978

Re: Village of Westhampton Beach Downtown Infrastructure Projects

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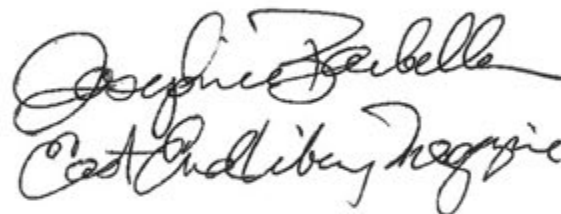
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Sincerely,



Josephine Reibelle
Ct. Audubon Regoie

July 9, 2018

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Village of Westhampton Beach
165 Mill Road
Westhampton Beach, NY 11978

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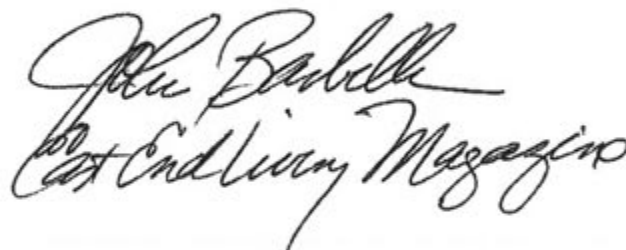
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Sincerely,



John Barbell
East End Living Magazine

July 9, 2018

Hon. Maria Z. Moore
Village of Westhampton Beach
165 Mill Road
Westhampton Beach, NY 11978

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Sincerely,

Jaume Citarelli
WHB 50 MAIN, LLC

July 9, 2018

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Village of Westhampton Beach
165 Mill Road
Westhampton Beach, NY 11978

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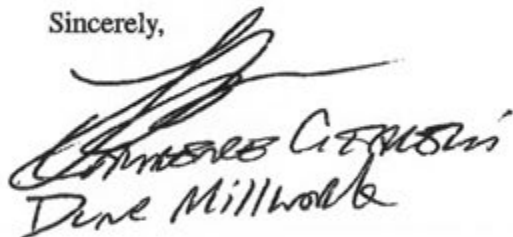
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Sincerely,



Denise Millwork

July 9, 2018

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Village of Westhampton Beach
165 Mill Road
Westhampton Beach, NY 11978

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Sincerely,

Lena Citarelli
Interiors By Lena



149 Main Street Holdings LLC
DeeAngelo's "Pleasant Avenue" Cafe
149 Main Street
Westhampton Beach, NY 11978
631.288.2009

July 9, 2018

Hon. Maria Z. Moore
Village of Westhampton Beach
165 Mill Road
Westhampton Beach, NY 11978

Re: Village of Westhampton Beach Downtown Infrastructure Projects

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Sincerely,

DeeAngelo's
owner

KERRIGAN
COUNTRY REALTY



July 9, 2018

Hon. Maria Z. Moore
Village of Westhampton Beach
165 Mill Road
Westhampton Beach, NY 11978

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Sincerely,

Dee Kerrigan
Owner/Broker

July 9, 2018

Hon. Maria Z. Moore
Village of Westhampton Beach
165 Mill Road
Westhampton Beach, NY 11978

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The drainage improvements will improve failing and insufficient stormwater infrastructure and reduce the flow of contaminated stormwater runoff into Moniebogue Bay watershed, which is tributary to a NYS 303(d) waterbody. The sewer system will allow for substantial reduction of nitrogen entering the watershed by eliminating onsite septic systems and installing a conveyance system for sewage treatment that will serve a projected 156 Suffolk County tax lots, primarily commercial. These projects are being undertaken in concert with extensive downtown revitalization plan that also encompasses traffic calming, beautification and pedestrian infrastructure improvements.

Sewage treatment is critically important for the Village and regional economy. Currently, commercial property owners suffer economic hardship from the constant pumping of failed systems and inability to incorporate uses allowable under current zoning due to inadequacy of septic capacity. If these issues are not addressed, they will no doubt have an overall negative impact on the Village. Tourism will likely suffer as well should water quality degradation continue unabated. Loss of the commercial enterprises will erode the tax base and negatively impact the attractiveness of the Village.

These important projects will contribute to a revitalized, more economically and environmentally sustainable downtown business district that supports local and regional tourism and maritime industries. I hope they will receive full consideration for funding support.

Sincerely,

Antoinette Plajja-Mundinger

*Village Resident and Main Street Business Owner
516-527-2231-cell if needed.*

July 9, 2018

Hon. Maria Z. Moore
Village of Westhampton Beach
165 Mill Road
Westhampton Beach, NY 11978

Re: Village of Westhampton Beach Downtown Infrastructure Projects

Dear Mayor Moore,

We write to express our strong support for two proposals submitted by the Village of Westhampton Beach to the Town of Southampton Community Preservation Fund (CPF), and other funding sources as appropriate:

- **Main Street Improvement Project – Drainage Improvements**
- **Sewer System Phase I**

These projects support objectives of the Southampton Town CPF Water Quality Improvement Project Plan, Suffolk County Water Resources Management Plan, and Suffolk County Harmful Algal Bloom Action Plan. In addition, because they will contribute to year round vitality and sustainability in the Village's downtown commercial district, they are also aligned with the New York State Downtown Revitalization Initiative and Long Island Regional Economic Development Council priorities.

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These important projects will contribute to a revitalized, more economically and environmentally sustainable downtown business district that supports local and regional tourism and maritime industries. We hope they will receive full consideration for funding support.

Sincerely,

A handwritten signature in blue ink, appearing to be 'SZ' followed by a stylized flourish.

Stanley Zinberg
Chairman of the Board
WHBPAC

A handwritten signature in blue ink, appearing to be 'MS' followed by a long, sweeping flourish.

Marcus Stinchi
Board Member
WHBPAC



7 Glovers Lane
Westhampton Beach, NY 11978

Email info@whbcc.org
Website westhamptonchamber.org

Phone 631.288.3337
Fax 631.288.3322

Executive Committee

July 9, 2018

President
Noelle Bass

Hon. Maria Z. Moore
Village of Westhampton Beach
165 Mill Road
Westhampton Beach, NY 11978

Vice-President
Philip Grossman

Treasurer
Paul Heiselman

Re: Village of Westhampton Beach Downtown Infrastructure Projects

Dear Mayor Moore:

2018
Board of Directors

Noelle Bass

Philip Grossman

Paul Heiselman

Lorriane Girard

Lillian Schon

Barbara Shapland

Karl MacDonald

Ari Goodman

Simon Jorna

On behalf of the Greater Westhampton Chamber of Commerce I write to express my strong support for two proposals submitted by the Village of Westhampton Beach to the Town of Southampton Community Preservation Fund (CPF), and other funding sources as appropriate:

Main Street Improvement Project – Drainage Improvements

Sewer System Phase I

These projects support objectives of the Southampton Town CPF Water Quality Improvement Project Plan, Suffolk County Water Resources Management Plan, and Suffolk County Harmful Algal Bloom Action Plan. In addition, because they will contribute to year round vitality and sustainability in the Village's downtown commercial district, they are also aligned with the New York State Downtown Revitalization Initiative and Long Island Regional Economic Development Council priorities.

The drainage improvements will improve failing and insufficient stormwater infrastructure and reduce the flow of contaminated stormwater runoff into Moniebogue Bay watershed, which is tributary to a NYS 303(d) waterbody. The sewer system will allow for substantial reduction of nitrogen entering the watershed by eliminating onsite septic systems and installing a conveyance system for sewage treatment that will serve a projected 156 Suffolk County tax lots, primarily commercial. These projects are being undertaken in concert with extensive downtown revitalization plan that also encompasses traffic calming, beautification and pedestrian infrastructure improvements.

Sewage treatment is critically important for the Village and regional economy. Currently, commercial property owners suffer economic hardship from the constant pumping of failed systems and inability to incorporate uses allowable under current zoning due to inadequacy of septic capacity. If these issues are not addressed, they will no doubt have an overall negative impact on the Village. Tourism will likely suffer as well should water quality degradation continue unabated. Loss of the commercial enterprises will erode the tax base and negatively impact the attractiveness of the Village. These important projects will contribute to a revitalized, more economically and environmentally sustainable downtown business district that supports local and regional tourism and maritime industries. I hope they will receive full consideration for funding.

Yours truly

Philip Grossman
Vice President





7 LIBRARY AVE • WESTHAMPTON BEACH, NY 11978
PHONE: 631-288-3335 • FAX: 631-288-5715

Danielle Waśkiewicz
Library Director

July 9, 2018

Hon. Maria Z. Moore
Village of Westhampton Beach
165 Mill Road
Westhampton Beach, NY 11978

Re: Village of Westhampton Beach Downtown Infrastructure Projects

Dear Mayor Moore,

I write to express my strong support for two proposals submitted by the Village of Westhampton Beach to the Town of Southampton Community Preservation Fund (CPF), and other funding sources as appropriate:

- **Main Street Improvement Project – Drainage Improvements**
- **Sewer System Phase I**

These projects support objectives of the Southampton Town CPF Water Quality Improvement Project Plan, Suffolk County Water Resources Management Plan, and Suffolk County Harmful Algal Bloom Action Plan. In addition, because they will contribute to year round vitality and sustainability in the Village's downtown commercial district, they are also aligned with the New York State Downtown Revitalization Initiative and Long Island Regional Economic Development Council priorities.

In addition, this project is vital to our community, our patrons. The Westhampton Free Library itself will benefit from the sewer system and it will reduce nitrogen entering the watershed from its visitors each day. Recently, the Library had to obtain Pine Barren Credits, by resolution, for our current renovation project.

The drainage improvements will improve failing and insufficient stormwater infrastructure and reduce the flow of contaminated stormwater runoff into Moniebogue Bay watershed, which is tributary to a NYS 303(d) waterbody. The sewer system will allow for substantial reduction of nitrogen entering the watershed by eliminating onsite septic systems and installing a conveyance system for sewage treatment. These projects are being undertaken in concert with extensive downtown revitalization plan that also encompasses traffic calming, beautification and pedestrian infrastructure improvements. These improvements allow the Library to see more patrons and more visitors and allow us to serve the community where and when needed.

Sewage treatment is critically important for the Village and the Library. Our tourism relies on clean water, which directly relates to the health of the Library during the tourist season. The Library does receive donations from tourists and our summer residents that help support our commitment to the community. Without clean waters, the visits will be less, the funds will be less and service will be impacted.



7 LIBRARY AVE • WESTHAMPTON BEACH, NY 11978
PHONE: 631-288-3335 • FAX: 631-288-5715

Danielle Waskiewicz

Library Director

These important projects will contribute to a revitalized, more economically and environmentally sustainable downtown business district that supports local and regional tourism and maritime industries. I hope they will receive full consideration for funding support.

Sincerely,

A handwritten signature in dark ink, appearing to read "Danielle Waskiewicz", with a long horizontal flourish extending to the right.

Danielle Waskiewicz, Director



Westhampton Beach Historical Society

P.O. Box 686
Westhampton Beach, NY 11978

Serving the Greater Westhampton Area

Hon. Maria Z. Moore
Village of Westhampton Beach
165 Mill Road
Westhampton Beach, NY 11978

July 12, 2018

Re: Village of Westhampton Beach Downtown Infrastructure Projects

Dear Mayor Moore,

I write to express my strong support for two proposals submitted by the Village of Westhampton Beach to the Town of Southampton Community Preservation Fund (CPF), and other funding sources as appropriate:

- **Main Street Improvement Project – Drainage Improvements**
- **Sewer System Phase I**

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These important projects will contribute to a revitalized, more economically and environmentally sustainable downtown business district that supports local and regional tourism and maritime industries. I hope they will receive full consideration for funding support.

Sincerely,

Jon Stanat
President

Westhampton Beach Historical Society

59 Lilac Road
Westhampton Beach, NY 11978
July 9, 2018

Hon. Maria Z. Moore
Village of Westhampton Beach
165 Mill Road
Westhampton Beach, NY 11978

Re: Village of Westhampton Beach Downtown Infrastructure Projects

Dear Mayor Moore,

I write to express my strong support for two proposals submitted by the Village of Westhampton Beach to the Town of Southampton Community Preservation Fund (CPF), and other funding sources as appropriate:

- **Main Street Improvement Project – Drainage Improvements**
- **Sewer System Phase I**

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These important projects will contribute to a revitalized, more economically and environmentally sustainable downtown business district that supports local and regional tourism and maritime industries. I hope they will receive full consideration for funding support.

Sincerely,



Diane S. Mullen

36 Lilac Road
Westhampton Beach, NY 11978
July 9, 2018

Hon. Jay Schneiderman
Southampton Town Supervisor
116 Hampton Road
Southampton, NY 11968

Re: Town Board support for full CPF funding of Village of Westhampton Beach WQIPP

Dear Supervisor Schneiderman:

15%

Our village has made substantial contributions to the Community Preservation Fund (CPF) beginning in 1999 and continuing to date. An examination of the expenditure of CPF funds reflects that through June 30, 2017 residents of the Village of Westhampton Beach have paid \$30,783,296.40 into the fund. Of this CPF money only 15% has been expended in the village.

143%

The Village of Sagaponack has had 143% of the revenues it has paid returned to it and expended in the Village of Sagaponack for a total of \$72,250,177.98. This difference has been understandable because the original purpose of the CPF was exclusively farmland preservation. That has changed.

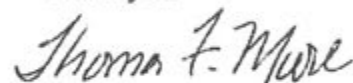
In the 2016 referendum, residents supported the amendment of the Community Preservation Fund to provide funding for water quality improvement projects with 80% voting in favor of the amendment. Nothing is more efficient at removing nitrogen from wastewater than a sewer treatment facility like the one that is available to our village through a cooperative agreement with Suffolk County. Our village desires to connect existing businesses and residences that are in a priority zone in the Town's Water Quality Improvement Project Plan. The efficacy and priority of this proposal is not in dispute.

100%

I urge the Board to authorize the complete funding of the Village of Westhampton Beach wastewater infrastructure project and so much of the drainage infrastructure project that is eligible for CPF water quality funds with only a contingent reduction from full funding for any amounts secured by the village from other state and federal grants.

It is the exclusive responsibility of the Town Board, our elected officials, to ensure that CPF revenues are put to the best use and distributed fairly.

Thank you



Thomas F. Moore

cc: Town Board and Village Board

Patti Schaefer
67 Lilac Road
Westhampton Beach, NY 11978

July 9, 2018

Hon. Maria Z. Moore
Village of Westhampton Beach
165 Mill Road
Westhampton Beach, NY 11978

Re: Village of Westhampton Beach Downtown Infrastructure Projects

Dear Mayor Moore,

I am writing to express my strong support for two proposals submitted by the Village of Westhampton Beach to the Town of Southampton Community Preservation Fund and other funding sources as appropriate:

- **Main Street Improvement Project – Drainage Improvements**
- **Sewer System Phase I**

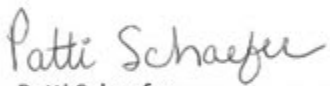
The drainage improvements will improve the failing storm water infrastructure identified in the engineers' report and mitigate the flow of contaminated runoff into Moniebogue Bay, a vital tributary to a NYS 303(d) waterbody. The sewer system will eliminate onsite septic systems, which we now know are responsible for up to 75% of the region's nitrogen pollution, and serve a projected 156 primarily commercial County tax lots. These projects are being undertaken in concert with appropriate downtown revitalization plans that also encompass traffic calming, beautification and pedestrian infrastructure improvements.

Sewage treatment is critically important for the Village and regional economy. Currently, commercial property owners suffer economic hardship from the constant pumping of failed systems and inability to incorporate uses allowable under current zoning due to inadequacy of septic capacity. If these issues are not addressed, they will have an overall negative impact on the Village. Tourism will suffer as water quality degradation continues unabated and the loss of the commercial enterprises will erode the tax base and negatively impact the attractiveness of the Village.

As an east end resident and chair of the Village's Conservation Advisory Committee, I was proud to vote for the extension of CPF funds that also included the 20% provision for water quality improvements. In my opinion, the projects being undertaken by the Village fall squarely within the Town's criteria for use of these funds. More broadly, they also support the objectives of the County's Water Resources Management Plan and Harmful Algal Bloom Action Plan. Because they will promote year-round vitality in the Village's downtown commercial district, they also align with the State's Downtown Revitalization Initiative and REDC priorities.

These important projects will contribute to a revitalized, more economically and environmentally sustainable downtown business district that supports local and regional tourism and maritime industries. I hope they will receive full consideration for funding support.

Sincerely,


Patti Schaefer

July 9, 2018

Hon. Maria Z. Moore
Village of Westhampton Beach
165 Mill Road
Westhampton Beach, NY 11978

Re: Village of Westhampton Beach Downtown Infrastructure Projects

Dear Mayor Moore,

I write to express my strong support for two proposals submitted by the Village of Westhampton Beach to the Town of Southampton Community Preservation Fund (CPF), and other funding sources as appropriate:

- **Main Street Improvement Project – Drainage Improvements**
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Sincerely,



Camden Ackerman
52 Main St #2
Westhampton Beach NY

July 9, 2018

Hon. Maria Z. Moore
Village of Westhampton Beach
165 Mill Road
Westhampton Beach, NY 11978

Re: Village of Westhampton Beach Downtown Infrastructure Projects

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Sincerely,

Naomi Elberfeldt
Green + Productions

July 9, 2018

Hon. Maria Z. Moore
Village of Westhampton Beach
165 Mill Road
Westhampton Beach, NY 11978

Re: Village of Westhampton Beach Downtown Infrastructure Projects

Dear Mayor Moore,

I write to express my strong support for two proposals submitted by the Village of Westhampton Beach to the Town of Southampton Community Preservation Fund (CPF), and other funding sources as appropriate:

- **Main Street Improvement Project – Drainage Improvements**
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Sincerely,

Jim Badzick
27 Sunswyck Lane
W1H3 NY 11978

**MAUREEN L. JONES
220 MAIN STREET
WESTHAMPTON BEACH, NY 11978**

July 9, 2018

Hon. Maria Z. Moore
Village of Westhampton Beach
165 Mill Road
Westhampton Beach, NY 11978

Re: Village of Westhampton Beach Downtown Infrastructure Projects

Dear Mayor Moore,

I write to express my strong support for two proposals submitted by the Village of Westhampton Beach to the Town of Southampton Community Preservation Fund (CPF), and other funding sources as appropriate:

- **Main Street Improvement Project – Drainage Improvements**
- **Sewer System Phase I**

These projects support objectives of the Southampton Town CPF Water Quality Improvement Project Plan, Suffolk County Water Resources Management Plan, and Suffolk County Harmful Algal Bloom Action Plan. In addition, because they will contribute to year round vitality and sustainability in the Village's downtown commercial district, they are also aligned with the New York State Downtown Revitalization Initiative and Long Island Regional Economic Development Council priorities.

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These important projects will contribute to a revitalized, more economically and environmentally sustainable downtown business district that supports local and regional tourism and maritime industries. I hope they will receive full consideration for funding support.

Sincerely,


Maureen L. Jones
220 Main Street
Westhampton Beach, NY 11978

July 11, 2018

Hon. Maria Moore
Village of Westhampton Beach
165 Mill road
Westhampton Beach, NY 11978

Re: Village of Westhampton Beach Downtown Infrastructure Projects

Dear Mayor Moore,

As a full time resident of Westhampton Beach and one who is concerned about our Village business district, as well as our water quality, I am in total support of the two proposals submitted by the Village of Westhampton Beach. These issues have been talked about for years, but have never been addressed as they are now by our current Board and Mayor Moore. I refer to the two proposals submitted to the Town of Southampton Community Preservation Fund (CPF) and other funding sources as appropriate:

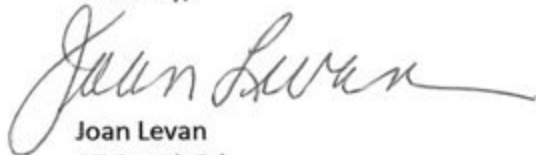
- 1) Main Street Improvement Project-Drainage Improvements
- 2) Sewer System Phase 1

Both of these projects support the objectives of the Southampton Town CPF Water Quality Improvement Project Plan, Suffolk County Water Resources Management Plan, and Suffolk County Harmful Algal Bloom Action Plan. In addition, because they will contribute to year round vitality and sustainability in our downtown commercial district they are also aligned with the NYState Downtown Revitalization Initiative and Long Island Regional Economic Development Council priorities.

I don't believe I need to extol the virtues of what drainage improvements mean or the importance of sewage treatment. Suffice it to say, our Village is in dire need of upgrading so that we can revitalize our downtown business district and continue to attract local and regional tourism and maritime industries.

I hope both of these initiatives will receive full consideration for funding support.

Sincerely,

A handwritten signature in cursive script, appearing to read "Joan Levan".

Joan Levan
17 Oneck Rd.
Westhampton Beach, NY 11978

July 9, 2018

Hon. Maria Z. Moore
Village of Westhampton Beach
165 Mill Road
Westhampton Beach, NY 11978

Re: Village of Westhampton Beach Downtown Infrastructure Projects

Dear Mayor Moore,

I write to express my strong support for two proposals submitted by the Village of Westhampton Beach to the Town of Southampton Community Preservation Fund (CPF), and other funding sources as appropriate:

- **Main Street Improvement Project – Drainage Improvements**
- **Sewer System Phase I**

These projects support objectives of the Southampton Town CPF Water Quality Improvement Project Plan, Suffolk County Water Resources Management Plan, and Suffolk County Harmful Algal Bloom Action Plan. In addition, because they will contribute to year round vitality and sustainability in the Village's downtown commercial district, they are also aligned with the New York State Downtown Revitalization Initiative and Long Island Regional Economic Development Council priorities.

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These important projects will contribute to a revitalized, more economically and environmentally sustainable downtown business district that supports local and regional tourism and maritime industries. I hope they will receive full consideration for funding support.

Sincerely,



Robert Lilley
23 church Lane
Westhampton Beach, NY 11978

July 9, 2018

Hon. Maria Z. Moore
Village of Westhampton Beach
165 Mill Road
Westhampton Beach, NY 11978

Re: Village of Westhampton Beach Downtown Infrastructure Projects

Dear Mayor Moore,

I write to express my strong support for two proposals submitted by the Village of Westhampton Beach to the Town of Southampton Community Preservation Fund (CPF), and other funding sources as appropriate:

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Sincerely,



July 9, 2018

Hon. Maria Z. Moore
Village of Westhampton Beach
165 Mill Road
Westhampton Beach, NY 11978

Re: Village of Westhampton Beach Downtown Infrastructure Projects

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These important projects will contribute to a revitalized, more economically and environmentally sustainable downtown business district that supports local and regional tourism and maritime industries. I hope they will receive full consideration for funding support.

Sincerely,



July 9, 2018

Hon. Maria Z. Moore
Village of Westhampton Beach
165 Mill Road
Westhampton Beach, NY 11978

Re: Village of Westhampton Beach Downtown Infrastructure Projects

Dear Mayor Moore,

I write to express my strong support for two proposals submitted by the Village of Westhampton Beach to the Town of Southampton Community Preservation Fund (CPF), and other funding sources as appropriate:

- **Main Street Improvement Project – Drainage Improvements**
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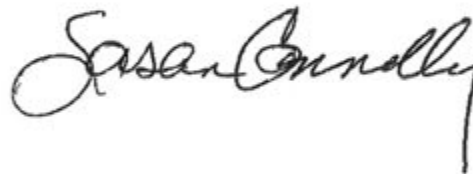
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A handwritten signature in dark ink, appearing to read "Susan Connolly". The signature is fluid and cursive, with the first name "Susan" written in a larger, more prominent script than the last name "Connolly".

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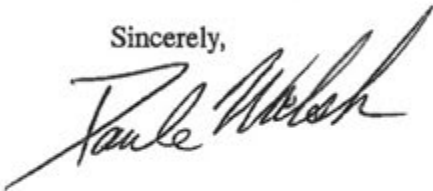
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Sincerely,

A handwritten signature in black ink, appearing to read "Joe Walsh". The signature is fluid and cursive, with the first name "Joe" being larger and more prominent than the last name "Walsh".

July 9, 2018

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165 Mill Road
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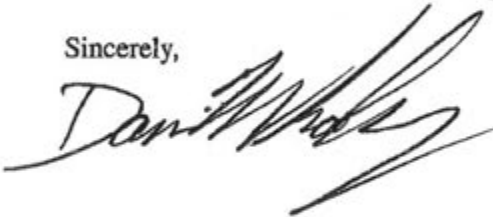
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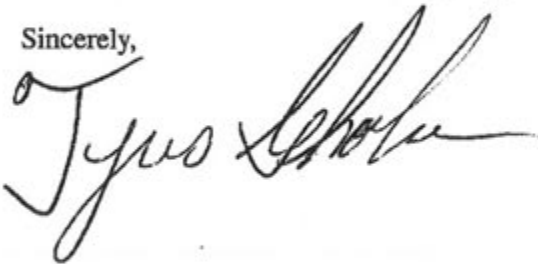
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