ROBERT LAGA
Chairman

NICHOLAS FANNIN
Vice Chairman

ROSE TROMBETTA
Secretary

TOWN OF CARMEL
ENVIRONMENTAL CONSERVATION BOARD

60 McAlpin Avenue
Mahopac, New York 10541
Tel. (845) 628-1500 - Ext. 190
www.ci.carmel.ny.us

BOARD MEMBERS

Edward Barnett
Vincent Turano
John Starace

ENVIRONMENTAL CONSERVATION BOARD AGENDA

MARCH 16, 2017 – 7:30 P.M.

ELIGIBLE FOR A PERMIT

APPLICANT	ADDRESS	TAX MAP #	COMMENTS
1. 70 Old Route 6 (Formerly Tompkins Recycling)	60 Old Route 6	55.11-1-15	Re-development of Existing Property
2. Lobel Fairy Island, LLC.	8 Fairy Lane	75.8-1-53	Construct 16' x 40' Pool with Spa, Retaining Wall, Pool Terrace & Pool Equipment

SUBMISSION OF AN APPLICATION OR LETTER OF PERMISSION

2. Stevens, Harry	103 Hill Street	64.18-1-23	Construct 3 Car Attached Garage

ESCROW RETURN

3. Moskowitz, Jay	47 Tyler Court	64.15-1-65	Construct Dock

MISCELLANEOUS

4. Meadowland Extension	1979 Route 6	55.15-1-20	Environmental Assessment (EAF)

5. Minutes – 12/01/16, 01/19/17 & 02/16/17

PUTNAM ENGINEERING, PLLC.
Engineers and Architects

March 13, 2017

Mr. Robert Laga, Chairman
Town of Carmel Environmental Conservation Board
Carmel Town Hall
60 McAlpin Avenue
Mahopac, NY 10541

Re: Tompkins recycling
60 Old Route 6
Carmel, NY

Dear Chairman Laga and Members of the Board:

The plans have been revised as requested at the February 16th meeting. The following revisions have been made:

1. Added the stockpile detail to sheet C-310 (dtl #6/C-310).
2. The fueling area is shown on the Phased Construction drawings sheets C-140 and C-141.
3. The area of disturbance is broken down and included in the February submission package (8 ½ x 11 docs).
4. A copy of the contingency plan has been provided which discusses spills inside the building.
5. I contacted N.Y.S.D.E.C. and they will be re-approving the wetland delineation.
6. A copy of the SWPPP has been placed in the file.

Sincerely,

PUTNAM ENGINEERING, PLLC

Paul M. Lynch, P.E.

PML/tal

(L01719)

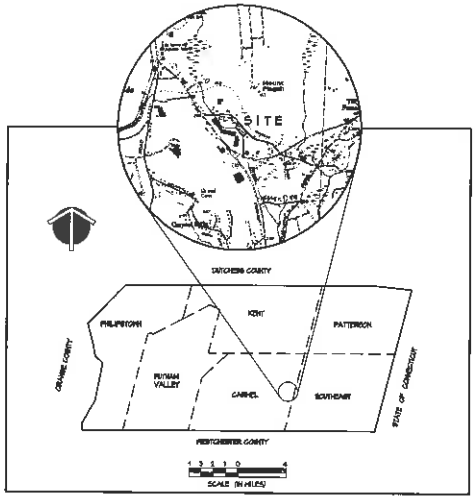
4 Old Route 6, Brewster, New York 10509 • (845) 279-6789 • Fax (845) 279-6769

PROPOSED SITE PLAN PREPARED FOR:

TOMPKINS RECYCLING FACILITY

CONSTRUCTION AND DEBRIS PROCESSING CENTER & RECYCLING

60 OLD ROUTE 6
TOWN of CARMEL
PUTNAM COUNTY, NEW YORK



LOCATION MAP

DRAWING SCHEDULE

DRAWING NO.	SHEET NO.	DRAWING TITLE
G-100	1	COVER SHEET
G-100	2	RESTRAINT MAP
C-10	3	EXISTING CONDITIONS PLAN
C-100	4	SITE LAYOUT PLAN
C-400	5	GRADING & DRAINAGE PLAN
C-410	6	EXCAVATION AND FILL PLAN FOR WETLAND BUFFER
C-411	7	EROSION AND SEDIMENT CONTROL PLAN
C-510	8	LANDSCAPE & SWMP DRAINAGE PLAN
C-460	9	WETLAND BUFFER ENHANCEMENT PLAN & SOIL EXCAVATION AND FILL PLAN
C-200	10	PROFILES
C-200	11	PROFILES & GEOMETRY LAYOUT PLAN
C-500	12	DETAILS
C-500	13	DETAILS
C-500	14	DETAILS
C-500	15	DETAILS

PUTNAM VALLEY ENGINEERING & LAND SURVEYING, P.C.
ENGINEERS • ARCHITECTS
4 OLD TURNPIKE, PO BOX 1000, PUTNAM VALLEY, NEW YORK 10579
(845) 279-4704 FAX (845) 279-4164
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REVISIONS

NO.	DATE	DESCRIPTION
1	10/05	PROJECT PHASE & COMMENTS
2	2/06	REVISED PHASE & COMMENTS
3	3/06	SITE PLAN
4	4/06	SITE PLAN
5	5/06	SITE PLAN
6	6/06	SITE PLAN
7	7/06	SITE PLAN
8	8/06	SITE PLAN
9	9/06	SITE PLAN
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571	7/53	SITE PLAN
572	8/53	SITE PLAN
573	9/53	SITE PLAN
574	10/53	SITE PLAN
575	11/53	SITE PLAN
576	12/53	SITE PLAN
577	1/54	SITE PLAN
578	2/54	SITE PLAN
579	3/54	SITE PLAN
580	4/54	SITE PLAN
581	5/54	SITE PLAN
582	6/54	SITE PLAN
583	7/54	SITE PLAN
584	8/54	SITE PLAN
585	9/54	SITE PLAN
586	10/54	SITE PLAN
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733	1/67	SITE PLAN
734	2/67	SITE PLAN
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736	4/67	SITE PLAN
737	5/67	SITE PLAN
738	6/67	SITE PLAN
739	7/67	SITE PLAN
740	8/67	SITE PLAN
741	9/67	SITE PLAN
742	10/67	SITE PLAN
743	11/67	SITE PLAN
744	12/67	SITE PLAN
745	1/68	SITE PLAN
746	2/68	SITE PLAN
747	3/68	SITE PLAN
748	4/68	SITE PLAN
749	5/68	SITE PLAN
750	6/68	SITE PLAN
751	7/68	SITE PLAN
752	8/68	SITE P

LEGEND:

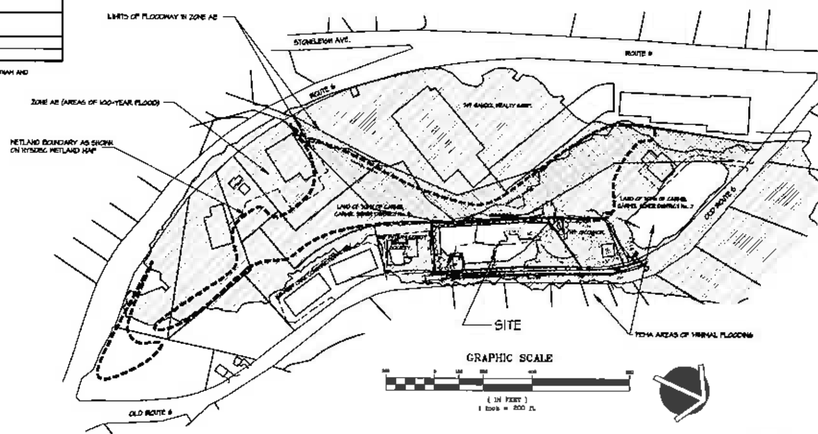
- EXISTING CONTOUR
- EXISTING BUILDING
- PROPERTY LINE
- WETLAND BOUNDARY AS SHOWN ON NYSDEC WETLAND MAP
- FLAGGED WETLAND BOUNDARY
- FEMA ZONE BOUNDARY
- FEMA LIMITS OF FLOODWAY IN ZONE AE
- FEMA ZONE AE (AREAS OF 100-YEAR FLOOD)
- FEMA OTHER AREAS (AREAS OF MINIMAL FLOODING)
- SOIL TYPE
- SOIL BOUNDARY

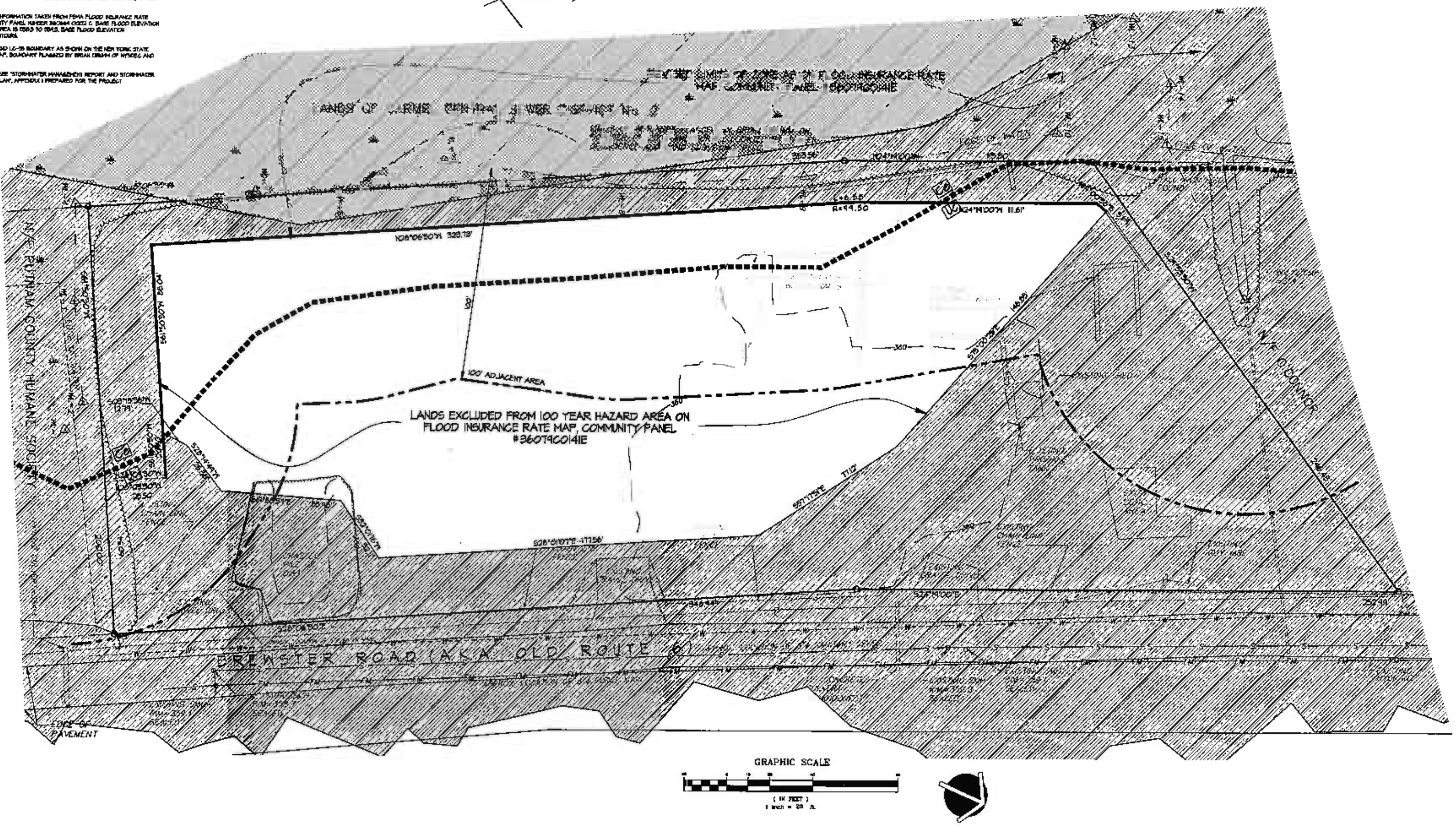
NOTES:

1. THE VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88). 2 FOOT CONTOUR INTERVAL.
2. FLOODPLAIN BOUNDARY INFORMATION TAKEN FROM FEMA FLOOD INSURANCE RATE MAPS KNOWN AS COMMUNITY PANEL NUMBER 36079C 0141 E. BASE FLOOD ELEVATION RANGE GIVEN FOR SITE AREA IS [illegible] TO [illegible]. BASE FLOOD ELEVATION INTERPOLATED FROM CONTOURS.
3. STATE REGULATED WETLAND LC-35 BOUNDARY AS SHOWN ON THE NEW YORK STATE FRESHWATER WETLAND MAP. BOUNDARY FLAGGED BY BRIAN DRUMM OF NYSDEC AND SURVEY LOCATED.
4. FOR REFERENCED MAPS SEE "STORMWATER MANAGEMENT REPORT AND STORMWATER POLLUTION PREVENTION PLAN, APPENDIX I PREPARED FOR THE PROJECT

SOILS LEGEND		
SOIL SYMBOL	SOIL GROUP	SOIL NAME
Ca	A/D	CARLISLE MUCK
Ud		UDORTHENTS, WET SUBSTRATUM

NOTE: APPROXIMATE LIMITS OF SOIL TYPES TAKEN FROM SOIL SURVEY OF PUTNAM AND WESTCHESTER COUNTIES, 1994.





PUTNAM ENGINEERING PLLC
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(845) 279-4704 FAX (845) 279-5764

PURSUANT TO NEW YORK STATE EDUCATION LAW, ARTICLE 145, SECTION 7209 SUBDIVISION 2, "IT IS A VIOLATION OF THIS LAW FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER ANY ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ENGINEER IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION."

REVISIONS

NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION
3	[illegible]	ADDED ZBA APPROVAL	13	[illegible]	DEP, DEC SUBMISSION
4	[illegible]	REVISED PER P.B. COMMENTS	14	[illegible]	P.B. & ZBA SUBMISSION
5	[illegible]	P.B. SUBMISSION	15	[illegible]	CHANGES PER NYSDEC
6	[illegible]	INTERIM SUBMISSION	16	[illegible]	REVISED PER NYSDEC
7	[illegible]	INTERIM & NYSDEC SUBMISSION	17	[illegible]	DEC SUBMISSION
8	[illegible]	CHANGES PER NYSDEC	18	[illegible]	REV. PER T.E. COMMENTS
9	[illegible]	CHANGES PER NYSDEC	19	[illegible]	RESUBMISSION TO ZBA
10	[illegible]	CHANGES PER NYSDEC	20	[illegible]	REVISION PER FEMA MAP
11	[illegible]	P.B. SUBMISSION	21	[illegible]	[illegible]
12	[illegible]	DEP, DEC SUBMISSION	22	[illegible]	[illegible]

PROJECT
TOMPKINS RECYCLING FACILITY
CONSTRUCTION AND DEBRIS PROCESSING CENTER & RECYCLING
60 OLD ROUTE 6
TOWN of CARMEL
PUTNAM COUNTY, NEW YORK
TAX MAP No 55.11, BLOCK 1, LOT 8

DATE [illegible]
PROJECT MANAGER BK
DRAWN BY RJK
CHECKED BY THL
SCALE AS NOTED

DRAWING
RESTRAINT MAP

PROJECT NUMBER [illegible]
DRAWING NUMBER
C-100

SHEET 2 OF 5

LIST OF ADJOINERS (500' RADIUS)

55.7-1-1	DP88 LLC and	308 NORTH BEDFORD RD	MOUNT KISCO, NY 10549
	STORAGE DEPOT SALT LAKE LLC	4541 SOUTH 500 WEST	MURRAY, UT 84123
55.7-1-2	COUNTY OF PUTNAM	40 GLENEIDA AVE	CARMEL, NY 10512
55.7-1-3	LIBERTY BELL TRUCKING	200 SOUTH WHITE ROCK ROAD	HOLMES, NY 12531
55.7-1-4	LIBERTY BELL TRUCKING	200 SOUTH WHITE ROCK ROAD	HOLMES, NY 12531
55.7-1-5	LIBERTY BELL TRUCKING	200 SOUTH WHITE ROCK ROAD	HOLMES, NY 12531
55.8-1-4	PUTNAM PLAZA LLC	741 BROADWAY	WHITE PLAINS, NY 10601
55.8-1-6	RYBARG INC., PUTNAM CHAPTER	50 INTERNATIONAL BLVD	BREWSTER, NY 10509
56.2-1-5	WEST LAKE CONSTRUCTION & DEV.	P O BOX 804	MAHOPAC, NY 10541
55.11-1-41	PUTNAM CO HUMANE SOC	P.O BOX 297	CARMEL, NY 10512
55.8-1-9	O'CONNOR, ROBERT E TRUST	142 BALLYHACK RD,	BREWSTER, NY 10509
55.11-1-17	TOWN OF CARMEL	60 McALPIN AVE,	MAHOPAC, NY 10541
55.11-1-18	LIBERTY BELL TRUCKING	200 SOUTH WHITE ROCK ROAD	HOLMES, NY 12531
55.11-1-19	LIBERTY BELL TRUCKING	200 SOUTH WHITE ROCK ROAD	HOLMES, NY 12531
55.11-1-20	LIBERTY BELL TRUCKING	200 SOUTH WHITE ROCK ROAD	HOLMES, NY 12531
55.11-1-22	71 OLD ROUTE 6, INC.	71 OLD ROUTE 6	CARMEL, NY 10512
55.11-1-501	COUNTY OF PUTNAM	40 GLENEIDA	CARMEL, NY 10512

OWNER/APPLICANT APPROVAL

THE UNDERSIGNED OWNER OF THE PROPERTY HEREON STATES THAT HE IS FAMILIAR WITH THESE DRAWINGS, THEIR CONTENTS AND THEIR LEGENDS AND HEREBY CONSENTS TO ALL THEIR SAID TERMS AND CONDITIONS AS STATED HEREON. FURTHER, THE OWNER CONSENTS TO THE FILING OF THIS MAP

SIGNED THIS ________ DAY OF ________, 20___

PLANNING BOARD APPROVAL

APPROVED BY RESOLUTION OF THE PLANNING BOARD OF THE TOWN OF CARMEL, NEW YORK, ON THE

_______ DAY OF ________, 20____.

ANY CHANGES, ERASURE, MODIFICATION OR REVISION OF THE PLAN, AS APPROVED, SHALL VOID THIS APPROVAL.

SIGNED THIS ______ DAY OF ________, 20___ BY

____

SECRETARY

THE FRESHWATER WETLAND BOUNDARY AS REPRESENTED ON THESE PLANS ACCURATELY DEPICTS THE LIMITS OF FRESHWATER WETLAND LC-55 AS DELINEATED BY MR. BRIAN DRUMM ON OCTOBER 17, 2006.

DEC STAFF:

Brian Drumm

DATE

2/20/2007

SEAL

WETLAND BOUNDARY DELINEATIONS AS VALIDATED BY THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION REMAIN VALID FOR TEN YEARS UNLESS EXISTING EXEMPT ACTIVITIES, AREA HYDROLOGY, OR LAND USE PRACTICES CHANGE. AFTER 10 YEARS THE BOUNDARY MUST BE REVALIDATED BY DEC STAFF. REVALIDATION MAY INCLUDE A NEW DELINEATION AND SURVEY OF THE WETLAND BOUNDARY.

ANY PROPOSED CONSTRUCTION, GRADING, FILLING, EXCAVATING, CLEARING OR OTHER REGULATED ACTIVITY IN THE FRESHWATER WETLAND OR WITHIN 100' OF THE WETLAND BOUNDARY AS DEPICTED ON THIS PLAN REQUIRES A PERMIT FROM THE NYSDEC UNDER ARTICLE 24 OF THE ENVIRONMENTAL CONSERVATION LAW (FRESHWATER WETLANDS ACT) PRIOR TO COMMENCEMENT OF WORK.

TOTAL SQUARE FOOTAGE OF AREA TO BE DISTURBED WITHIN THE 100' ADJACENT BUFFER AREA TO FRESHWATER WETLAND LC-55.	54,400 SF
APPROXIMATE CUBIC YARDS OF FILL WITHIN THE 100' ADJACENT BUFFER AREA TO FRESHWATER WETLAND LC-55.	2780 CY

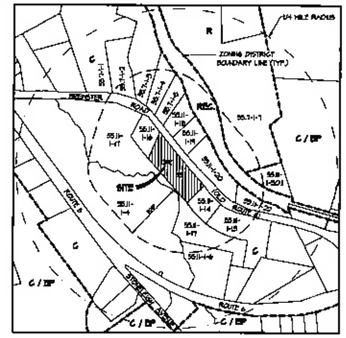
SOILS LEGEND

SYMBOL	NAME	HYD. GROUP
Ca	CARLISLE MUCK	A/D
Uc	UDORTHENTS, WET SUBSTRATUM	-

NOTE: APPROXIMATE LIMITS OF SOIL TYPES TAKEN FROM SOIL SURVEY OF PUTNAM AND WESTCHESTER COUNTIES, 1994

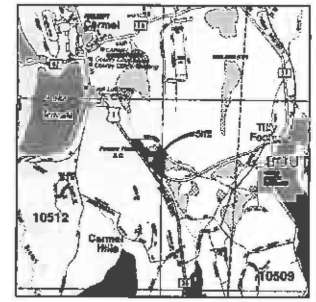
GENERAL NOTES:

1. SITE INFORMATION TAKEN FROM A PLAN ENTITLED "EXISTING TOPOGRAPHY SECTION 55, BLOCK 1, LOT 5 & 4.2" AS PREPARED BY ZEN DESIGN CONSULTANTS INC. DATED 8-14-2006. THE TOPOGRAPHIC DATA HAS BEEN ADJUSTED TO 1988 DATUM.
2. OWNER/ APPLICANT: 70 OLD ROUTE 6 LLC
   P.O. BOX 508
   BEDFORD, N.Y. 10506
3. SITE DATA: TAX MAP 55.11-1-5
   LOT AREA = 2.45 ACRES (106,[illegible] S.F.)
4. ZONING DISTRICT C- COMMERCIAL
5. THE VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88). 2 FOOT CONTOUR INTERVAL.
6. INTERPRETATION THAT ROLL-OFF CONTAINERS ARE PERMITTED WAS CONFIRMED BY THE ZONING BOARD OF APPEALS ON JUNE 28, 2007.
7. THE ZONING BOARD OF APPEALS DETERMINED ON OCTOBER 25, 2007 THAT THE PROPOSED USE OF CONSTRUCTION DEBRIS PROCESSING CENTER AND RECYCLING IS A MORE RESTRICTIVE USE THAN THE CURRENT AUTOMOBILE RECYCLING AND AS SUCH IS PERMITTED.



AREA MAP

SCALE: 1" = 400'

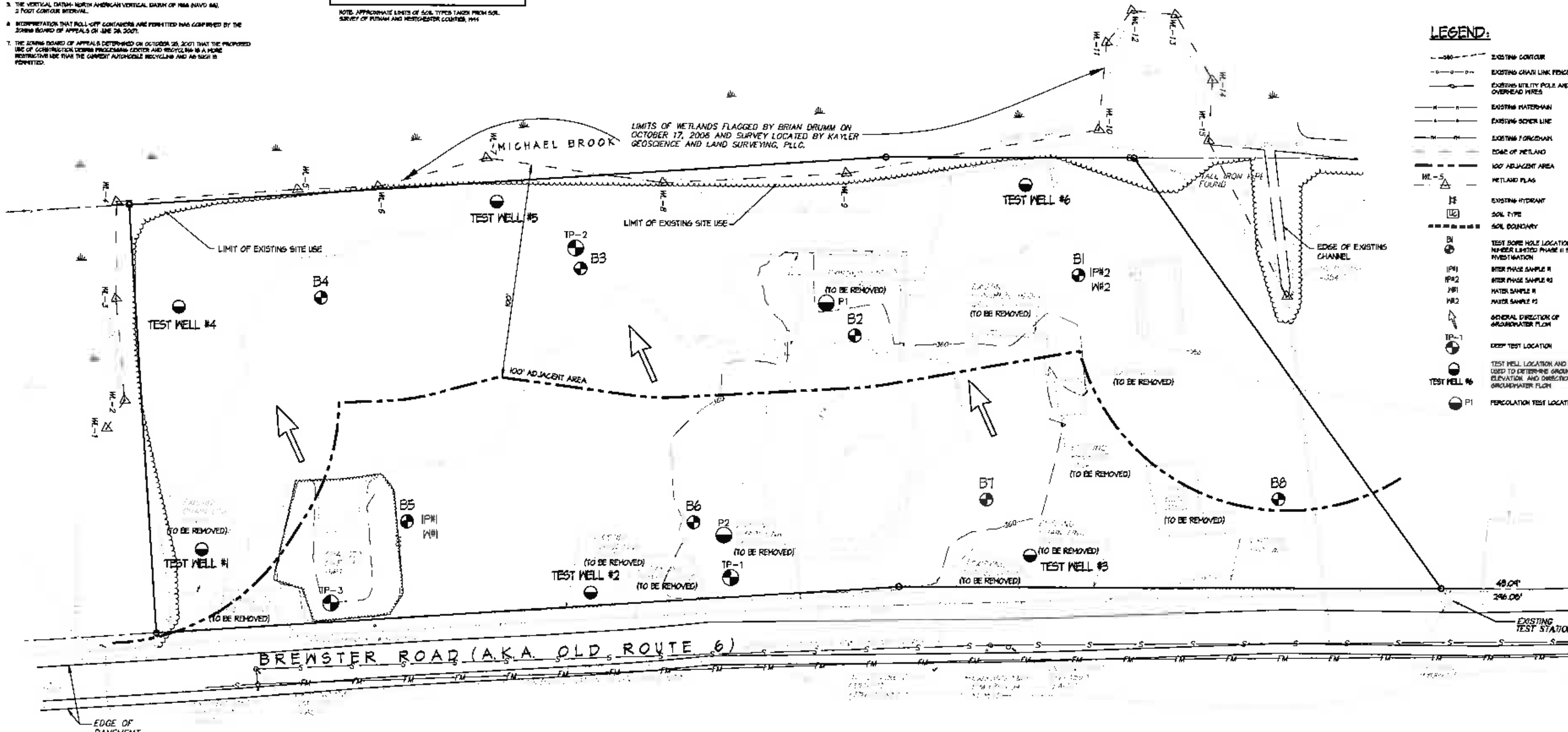


LOCATION MAP

SCALE: 1" = 2000'

LEGEND:

360	EXISTING CONTOUR
	EXISTING CHAIN LINK FENCE
	EXISTING UTILITY POLE AND OVERHEAD WIRES
	EXISTING WATERMAIN
	EXISTING SEWER LINE
	EXISTING FORCEMAIN
	EDGE OF WETLAND
	100' ADJACENT AREA
WL-5	WETLAND FLAG
	EXISTING HYDRANT
Uc	SOIL TYPE
	SOIL BOUNDARY
B1	TEST BORE HOLE LOCATION AND NUMBER LIMITED PHASE II SITE INVESTIGATION
IP#1	INTER PHASE SAMPLE #1
IP#2	INTER PHASE SAMPLE #2
W#1	WATER SAMPLE #1
W#2	WATER SAMPLE #2
	GENERAL DIRECTION OF GROUNDWATER FLOW
TP-1	DEEP TEST LOCATION
TEST WELL #6	TEST WELL LOCATION AND NUMBER USED TO DETERMINE GROUNDWATER ELEVATION AND DIRECTION OF GROUNDWATER FLOW
P1	PERCOLATION TEST LOCATION



EXISTING CONDITIONS PLAN

GRAPHIC SCALE

(IN FEET)
1 inch = 20 ft.

PUTNAM ENGINEERING, PLLC
ENGINEERS - ARCHITECTS
4 OLD ROUTE 6, BREWSTER, NEW YORK 10509
(845) 279-6784 FAX (845) 279-6764

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PROJECT: TOMPKINS RECYCLING FACILITY
CONSTRUCTION AND DEBRIS PROCESSING CENTER & RECYCLING
60 OLD ROUTE 6
TOWN of CARMEL
PUTNAM COUNTY, NEW YORK
TAX MAP No. 55.11, BLOCK 1, LOT 5

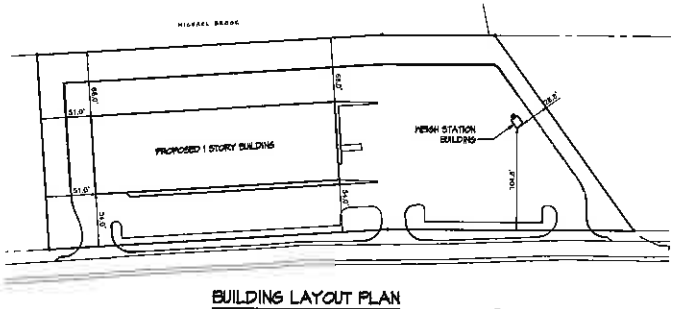
DATE: 10/03/06
PROJECT MANAGER: BL
DRAWN BY: N/A
CHECKED BY: PNL
SCALE: AS NOTED

DRAWING: EXISTING CONDITIONS PLAN

PROJECT NUMBER: 5366

DRAWING NUMBER: C-110

SHEET 3 OF 5



BUILDING LAYOUT PLAN

GRAPHIC SCALE

SCHEDULE of DISTRICT REGULATIONS

C COMMERCIAL	REQUIRED	PROVIDED
MIN. LOT AREA (SF)	40,000	108,171
MIN. LOT WIDTH (FT)	200	496
MIN. LOT DEPTH (FT)	200	200
MINIMUM YARDS/SETBACKS		
FRONT (FT)	40	54
SIDE (FT)	25	51
REAR (FT)	50	14
MAX. BLDG. HEIGHT (FT)	35	29
MIN. FLOOR AREA (SF)	3000	30,000
MAX. LOT COVERAGE (%)	30	11.5

OFF-STREET PARKING & LOADING

OFF-STREET PARKING: PER CHAPTER 65-11(D)
WAREHOUSE/STORAGE/HEAVY COMMERCIAL ESTABLISHMENT:
ONE PARKING SPACE FOR EVERY 1000 S.F. OF FLOOR AREA
30,000 SF / 1000 = 30 SPACES

TOTAL SPACES REQUIRED: 21
TOTAL SPACES PROVIDED: 25

OFF-STREET LOADING: PER CHAPTER 65-11(E)
WAREHOUSE/STORAGE/HEAVY COMMERCIAL ESTABLISHMENT:
ONE LOADING SPACE FOR FIRST 10,000SF OF FLOOR AREA
PLUS 1 ADDITIONAL SPACE FOR EACH ADDITIONAL 30,000S.F. OF FLOOR AREA

TOTAL SPACES REQUIRED: 3
TOTAL SPACES PROVIDED: 3

SITE LAYOUT LEGEND:

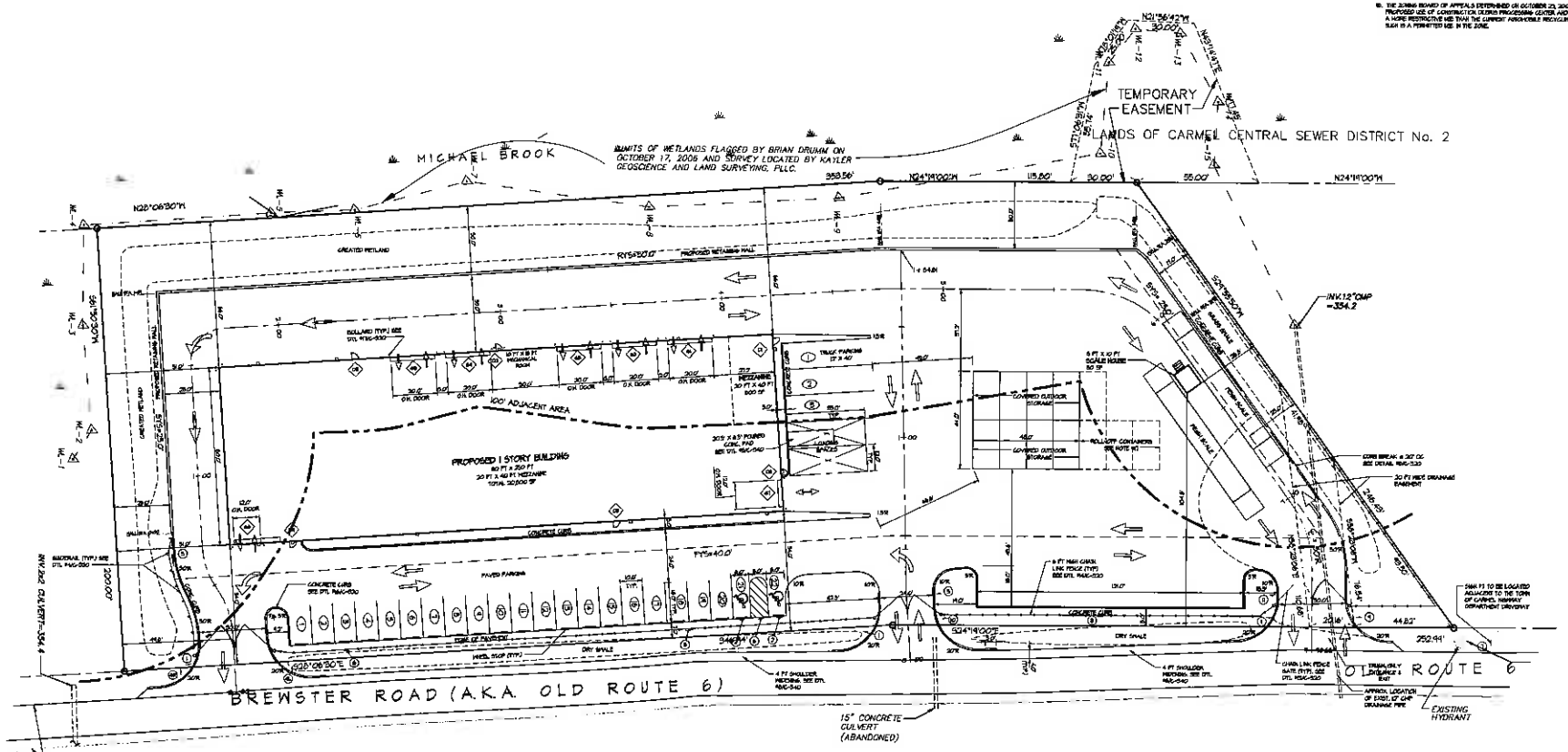
- SIGN WITH DESIGNATION/LOCATION NUMBER (REFER TO DETAIL SHEET C-320)
- PROPOSED RETAINING WALL
- PROPOSED CONCRETE CURB
- PROPOSED CHAIN LINK FENCE
- PROPOSED GUIDERAIL
- TRAFFIC DIRECTIONAL ARROW
- PROPOSED PARKING SPACES
- PROPOSED WALL MOUNTED LIGHT
- PROPOSED LOADING AREA
- PROPOSED ROLL OFF CONTAINER
- 5 FT WIDE PEDESTRIAN DOOR
- OVERHEAD DOOR
- 100' ADJACENT AREA
- WL-5 WETLAND FLAG

LIGHTING NOTES:

1. ALL EXTERIOR LIGHTING TO BE INSTALLED SHALL BE DOWNWARD DIRECTED AND SHALL NOT RESULT IN LIGHT SPILLING OFF THE SITE. POLE MOUNTED LIGHTING SHALL BE INSTALLED WITH CUT-OFF LUMINAIRES.
2. NO OUTDOOR STORAGE SPACE SHALL BE LIGHTED

GENERAL NOTES:

1. SITE INFORMATION TAKEN FROM A PLAN ENTITLED "EXISTING TOPOGRAPHY SECTION 86, BLOCK 1, LOT 2 & 4.1" AS PREPARED BY JOS DRIMAN CONSULTANTS, INC. DATED 9-11-2002. THE TOPOGRAPHIC DATA HAS BEEN ADJUSTED TO 1988 DATUM.
2. OWNER/APPLICANT: TC OLD ROUTE 6 LLC
   P.O. BOX 508
   BEDFORD, N.Y. 10506
3. PROPOSED USE: COMMERCIAL
4. ALL UTILITIES SHALL BE INSTALLED UNDERGROUND AND IN CONFORMANCE WITH LOCAL CODES AND UTILITY COMPANY REQUIREMENTS.
5. ALL ON-SITE TRAFFIC CIRCULATION IS TWO-WAY UNLESS NOTED OTHERWISE.
6. HANDICAP PARKING SPACES, ACCESS AISLE AND HANDICAP SYMBOLS SHALL BE DEMARKATED WITH 4 INCH BLUE PAINTED LINES. ALL OTHER PARKING SPACES SHALL BE DEMARKATED WITH 4 INCH WHITE PAINTED LINES.
7. SITE DATA: TAX MAP 86.1-1-6
   LOT AREA = 2.48 ACRES (108,171 S.F.)
8. ZONING DISTRICT: C COMMERCIAL
9. ALL GARBAGE SHALL CONFORM TO THE REQUIREMENTS OF CHAPTER 60-11 OF THE ZONING CODE OF THE TOWN OF CARMEL.
10. SEWER SERVICE SHALL BE PROVIDED BY CONNECTION TO CARMEL SEWER DISTRICT #2. WATER SERVICE SHALL BE PROVIDED BY CONNECTION TO CARMEL WATER DISTRICT #2.
11. ALL EXTERIOR LIGHTING TO BE INSTALLED SHALL BE DOWNWARD DIRECTED AND SHALL NOT RESULT IN LIGHT SPILLING OFF THE SITE. POLE MOUNTED LIGHTING SHALL BE INSTALLED WITH CUT-OFF LUMINAIRES.
12. THE VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) 2 FOOT CONTOUR INTERVAL.
13. THERE ARE NO OUTDOOR AREAS PROPOSED FOR SELLING OR DISPLAY.
14. ESTIMATE OF EMPLOYEES: 25
15. DESCRIPTION OF OPERATION: CONSTRUCTION AND DEMOLITION DEBRIS RECYCLING CENTER.
16. TYPE OF MACHINERY AND EQUIPMENT TO BE USED: ROLL-OFF TRUCKS, EXCAVATORS, LOADERS, ROCK CRUSHER, STAFF RANGER.
17. INTERPRETATION THAT ROLL-OFF CONTAINERS ARE PERMITTED WAS CONFIRMED BY THE ZONING BOARD OF APPEALS ON JUNE 20, 2007.
18. THE ZONING BOARD OF APPEALS DETERMINED ON OCTOBER 23, 2007 THAT THE PROPOSED USE OF CONSTRUCTION DEBRIS PROCESSING CENTER AND RECYCLING IS A MORE RESTRICTIVE USE THAN THE CURRENT INDUSTRIAL RECYCLING AND NO SUCH IS A PERMITTED USE IN THE ZONE.



SITE LAYOUT PLAN

GRAPHIC SCALE

(IN FEET)
1 inch = 30 ft.

PUTNAM VALLEY ENGINEERING
ENGINEERING - ARCHITECTS
4 OLD ROUTE 6, BREWSTER, NEW YORK 10509
(845) 279-6264 FAX (845) 279-6394

REVISIONS

1	11/12/07	REVISED PER TOWN COMMENTS
2	12/12/07	REVISED PER TOWN COMMENTS
3	1/15/08	REVISED PER TOWN COMMENTS
4	2/12/08	REVISED PER TOWN COMMENTS
5	3/12/08	REVISED PER TOWN COMMENTS
6	4/14/08	REVISED PER TOWN COMMENTS
7	5/12/08	REVISED PER TOWN COMMENTS
8	6/12/08	REVISED PER TOWN COMMENTS
9	7/12/08	REVISED PER TOWN COMMENTS
10	8/12/08	REVISED PER TOWN COMMENTS
11	9/12/08	REVISED PER TOWN COMMENTS
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13	11/12/08	REVISED PER TOWN COMMENTS
14	12/12/08	REVISED PER TOWN COMMENTS
15	1/12/09	REVISED PER TOWN COMMENTS
16	2/12/09	REVISED PER TOWN COMMENTS
17	3/12/09	REVISED PER TOWN COMMENTS
18	4/12/09	REVISED PER TOWN COMMENTS
19	5/12/09	REVISED PER TOWN COMMENTS
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24	10/12/09	REVISED PER TOWN COMMENTS
25	11/12/09	REVISED PER TOWN COMMENTS
26	12/12/09	REVISED PER TOWN COMMENTS
27	1/12/10	REVISED PER TOWN COMMENTS
28	2/12/10	REVISED PER TOWN COMMENTS
29	3/12/10	REVISED PER TOWN COMMENTS
30	4/12/10	REVISED PER TOWN COMMENTS

PROJECT: TOMPKINS RECYCLING FACILITY
CONSTRUCTION AND DEBRIS PROCESSING CENTER & RECYCLING
60 OLD ROUTE 6
TOWN OF CARMEL, PUTNAM COUNTY, NEW YORK
TAX MAP No. 86.1, BLOCK 1, LOT 6

DATE: 10/09/06
PROJECT MANAGER: JM
DRAWN BY: RCL
CHECKED BY: JM
SCALE: AS NOTED

DRAWING: SITE LAYOUT PLAN

PROJECT NUMBER: 06-0509

DRAWING NUMBER: C-120

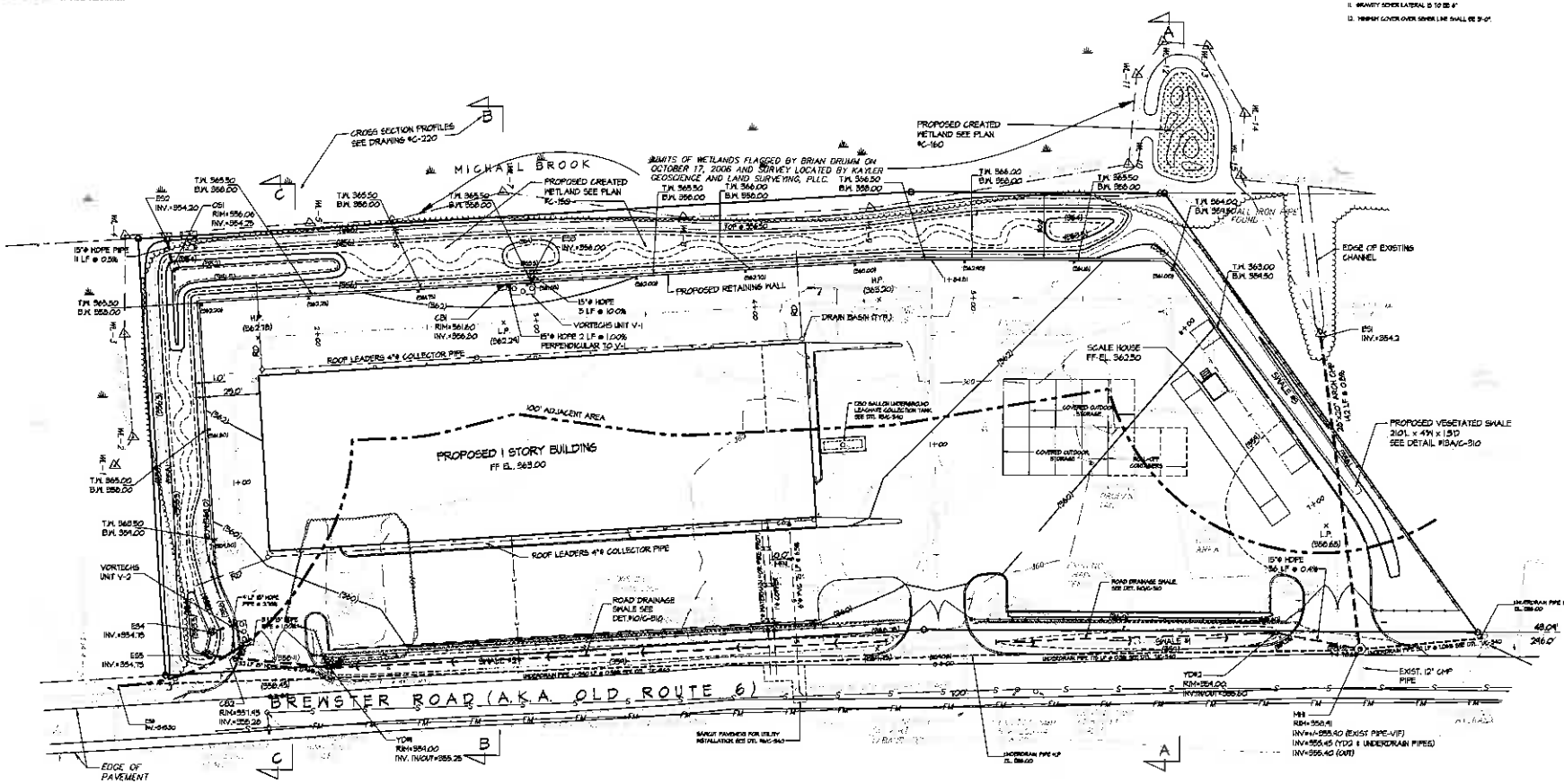
SHEET 4 OF 8

GRADING AND UTILITIES LEGEND

- WATER MAIN
- SANITARY SEWER PIPE
- FORCE MAIN PIPE
- STORMWATER PIPE
- EXISTING CONTOURS
- PROPOSED CONTOURS
- EXISTING UTILITY POLE
- CURB VALVE
- SANITARY SEWER CLEANOUT
- PROPOSED RETAINING WALL
- PROPOSED STORMWATER PIPE
- UNDERGROUND ELECTRIC SERVICE
- EXISTING VEGETATION

GRADING & UTILITIES NOTES:

1. FOR NEW YORK STATE LAW, THE CONTRACTOR SHALL CALL THE UNDERGROUND FACILITIES PROTECTIVE ORGANIZATION (UPO) AT 1-800-962-7962, TWO (2) FULL DAYS PRIOR TO PERFORMING ANY EXCAVATION WORK.
2. SITE INFORMATION TAKEN FROM A PLAN ENTITLED "EXISTING TOPOGRAPHIC SECTION 66, BLOCK 1, LOT 9 & 47" AS PREPARED BY ZEH DEMAN CONSULTANTS, INC. DATED 8-14-2006.
3. ALL UTILITIES SHALL BE INSTALLED UNDERGROUND AND IN CONFORMANCE WITH LOCAL CODES AND UTILITY COMPANY REQUIREMENTS.
4. SEWER SERVICE SHALL BE PROVIDED BY CONNECTION TO CARMEL SEWER DISTRICT #2. WATER SERVICE SHALL BE PROVIDED BY CONNECTION TO CARMEL WATER DISTRICT #2.
5. ALL EXTERIOR LIGHTING TO BE INSTALLED SHALL BE DOWNWARD DIRECTED AND SHALL NOT RESULT IN LIGHT SPILLING OFF THE SITE. POLE MOUNTED LIGHTING SHALL BE INSTALLED WITH CUT-OFF LUMINAIRES.
6. THE VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) 2 FOOT CONTOUR INTERVAL.
7. EXISTING UTILITIES (VALVE BOXES, MANHOLE FRAMES AND RING, CATCH BASIN FRAMES AND GRATES, ETC) SHALL BE ADJUSTED AS REQUIRED TO MEET NEW FINISHED GRADES.
8. JOINTS IN SANITARY, STORM AND WATER PIPES TO BE OFFSET AT ALL CROSSINGS.
9. 1998-91 COVER OVER WATER LINE SHALL BE 4'-0"
10. TRACER WIRE #4 AWG TO BE PLACED IN ALL WATER MAIN TRENCHES AT A DEPTH OF 2'-0" BELOW FINISHED GRADE.
11. GRAVITY SEWER LATERAL IS TO BE 6"
12. MINIMUM COVER OVER SEWER LINE SHALL BE 3'-0".



GRADING and UTILITIES PLAN

GRAPHIC SCALE

(IN FEET)
1 inch = 80 ft.

PARKER ENGINEERING PLLC
ENGINEERS - ARCHITECTS
4 OLD ROUTE 6, BREWSTER, NEW YORK 10509
(845) 279-6700 FAX: (845) 279-0784

REVISIONS					
NO.	DATE	DESCRIPTION	BY	CHK	DESCRIPTION
1	10/06	PER PLANNING BOARD COMMENTS	DJ	DJ	CHP FOR SUBMISSION
2	11/06	PER PLANNING BOARD COMMENTS	DJ	DJ	PER PLANNING BOARD
3	12/06	PER PLANNING BOARD COMMENTS	DJ	DJ	PER PLANNING BOARD
4	1/07	PER PLANNING BOARD COMMENTS	DJ	DJ	PER PLANNING BOARD
5	2/07	PER PLANNING BOARD COMMENTS	DJ	DJ	PER PLANNING BOARD
6	3/07	PER PLANNING BOARD COMMENTS	DJ	DJ	PER PLANNING BOARD
7	4/07	PER PLANNING BOARD COMMENTS	DJ	DJ	PER PLANNING BOARD
8	5/07	PER PLANNING BOARD COMMENTS	DJ	DJ	PER PLANNING BOARD
9	6/07	PER PLANNING BOARD COMMENTS	DJ	DJ	PER PLANNING BOARD
10	7/07	PER PLANNING BOARD COMMENTS	DJ	DJ	PER PLANNING BOARD
11	8/07	PER PLANNING BOARD COMMENTS	DJ	DJ	PER PLANNING BOARD
12	9/07	PER PLANNING BOARD COMMENTS	DJ	DJ	PER PLANNING BOARD
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14	11/07	PER PLANNING BOARD COMMENTS	DJ	DJ	PER PLANNING BOARD
15	12/07	PER PLANNING BOARD COMMENTS	DJ	DJ	PER PLANNING BOARD
16	1/08	PER PLANNING BOARD COMMENTS	DJ	DJ	PER PLANNING BOARD
17	2/08	PER PLANNING BOARD COMMENTS	DJ	DJ	PER PLANNING BOARD
18	3/08	PER PLANNING BOARD COMMENTS	DJ	DJ	PER PLANNING BOARD

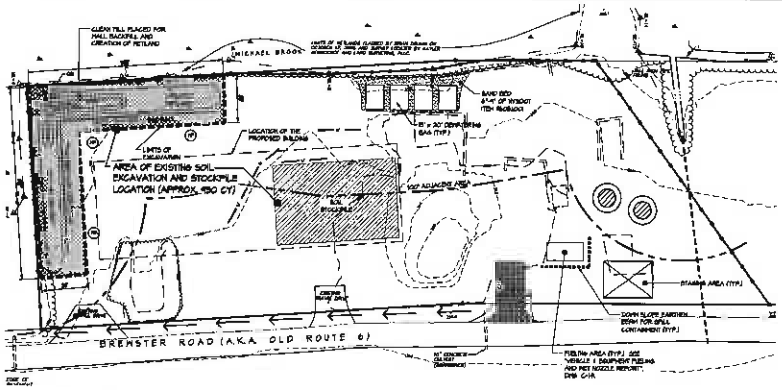
PROJECT: TOMPKINS RECYCLING FACILITY
CONSTRUCTION AND DEBRIS PROCESSING CENTER & RECYCLING
60 OLD ROUTE 6
BREWSTER, NEW YORK
PUTNAM COUNTY, NEW YORK
TAX MAP NO 38.11, BLOCK 1, LOT 9

DATE: 03/06
PROJECT MANAGER: DJ
DRAWN BY: MJC
CHECKED BY: DJ
SCALE: AS NOTED

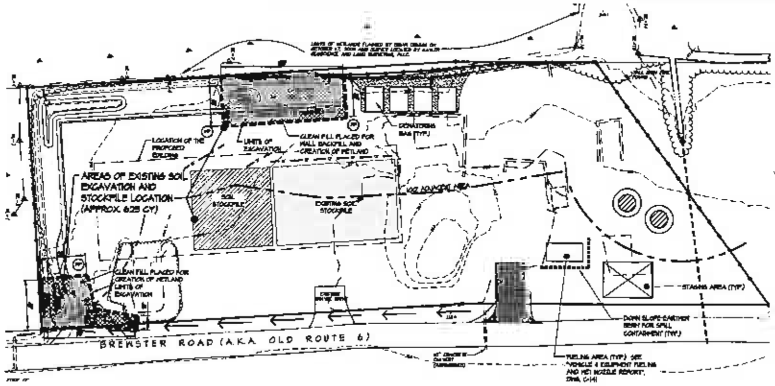
DRAWING: GRADING and UTILITIES PLAN

PROJECT NUMBER: 6388
DRAWING NUMBER: C-130

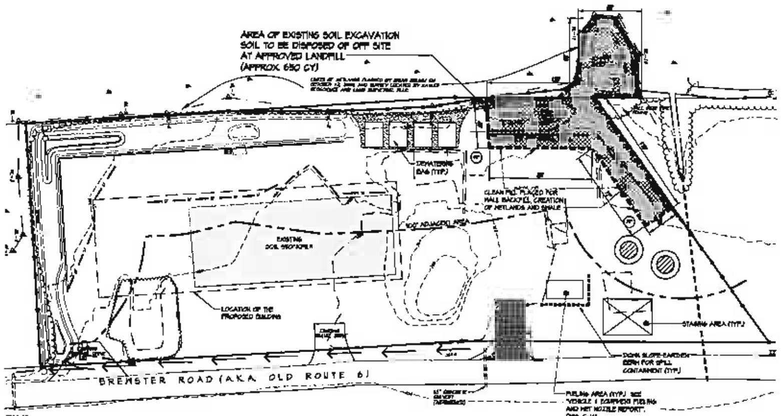
SHEET 5 OF 6



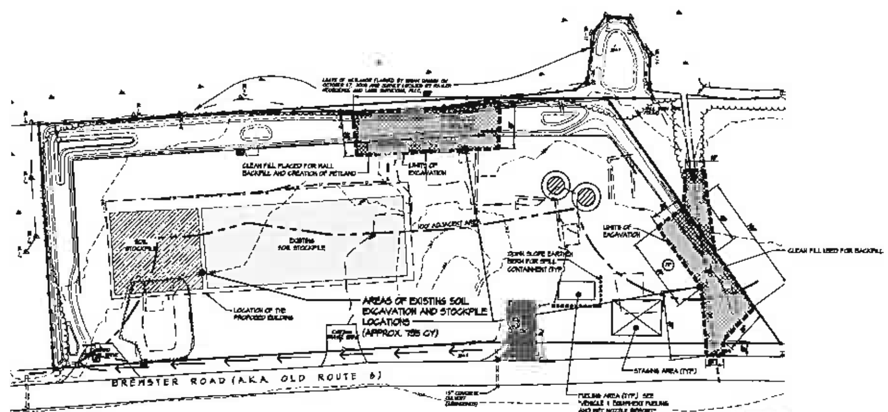
STAGE 1



STAGE 2



STAGE 3



STAGE 4

SEQUENCE OF CONSTRUCTION

1. INSTALL STABILIZED CONSTRUCTION ENTRANCE AS SHOWN ON THE PLAN;
2. REMOVE DEBRIS AND UNWANTED VEGETATION FROM WETLAND AND STREAM AREAS AS SHOWN ON DRAWING AC-140;
3. INSTALL SAFETY ORANGE FENCE AND SILT FENCE ALONG PROPERTY LINES AND WETLAND PERIMETER;
4. INSTALL PERIMETER DIKE/SWALE AS SHOWN ON THE DRAWING ALONG OLD ROUTE 6.

STAGE 1

5. CREATE FILTER SAND BED (NYSDOT ITEM 605.3001) FOR PLACEMENT UNDER DEWATERING BAGS. INSTALL DEWATERING BAGS;
6. MARK LIMITS OF EXCAVATION AS SHOWN ON STAGE 1 DRAWING;
7. INSTALL WELL POINTS AS SHOWN ON PLANS PREPARED BY OTHERS. SEE "WELL POINTING" NOTES DESCRIBED ON THIS DRAWING (C-140). THE WELL POINT (WP) LOCATIONS SHOWN ON THIS PLAN ARE DIAGRAMMATIC IN NATURE; IT MAY BE NECESSARY TO INSTALL MORE THAN WHAT IS SHOWN.
8. EXCAVATE THE AREA TO DEPTHS NECESSARY FOR PROPOSED CONSTRUCTION. REFER TO DRAWING AC-220 FOR TYPICAL DEPTHS;
9. PLACE THE EXCAVATED SOIL AS SHOWN ON THE DRAWING, WITHIN THE FUTURE BUILDING FOOTPRINT;
10. BRING IN CLEAN FILL FOR RETAINING WALL SUBBASE, WALL BACKFILL AND CREATED WETLAND (ALL IMPORTED FILL FOR THE SITE SHALL INCLUDE A MANIFEST ATTESTING TO IT BEING CLEAN FILL);
11. BUILD THE RETAINING WALL;
12. BACKFILL THE WALL WITH CLEAN FILL. GRADE THE PROPOSED WETLAND AREA AS SHOWN ON THE DRAWING;
13. INSTALL TEMPORARY OUTLET STRUCTURE OS1 ALONG WITH OUTLET PIPE

STAGE 2

14. MARK LIMITS OF EXCAVATION AS SHOWN ON STAGE 2 DRAWING;
15. INSTALL WELL POINTS AS SHOWN ON PLANS PREPARED BY OTHERS. SEE "WELL POINTING" NOTES DESCRIBED ON THIS DRAWING (C-140). THE WELL POINT (WP) LOCATIONS SHOWN ON THIS PLAN ARE DIAGRAMMATIC IN NATURE; IT MAY BE NECESSARY TO INSTALL MORE THAN WHAT IS SHOWN.
16. EXCAVATE THE AREA TO DEPTHS NECESSARY FOR PROPOSED CONSTRUCTION. REFER TO DRAWING AC-220 FOR TYPICAL DEPTHS;
17. PLACE THE EXCAVATED SOIL AS SHOWN ON THE DRAWING, WITHIN THE FUTURE BUILDING FOOTPRINT;
18. BRING IN CLEAN FILL FOR RETAINING WALL SUBBASE, WALL BACKFILL AND CREATED WETLAND;
19. BUILD THE RETAINING WALL;
20. BACKFILL THE WALL WITH CLEAN FILL. GRADE THE PROPOSED WETLAND AREA AS SHOWN ON THE DRAWING;
21. INSTALL VORTECHS UNITS V-1 AND V-2, CATCH BASINS CB1 AND CB2 AND YARD DRAIN YD1 ALONG WITH THE CONNECTING AND OUTGOING PIPES. PROTECT INLETS PER DETAIL 15/C-310. THE STRUCTURES ARE NOT TO RECEIVE ANY STORMWATER FLOW UNTIL AT LEAST AN ASPHALT BINDER COURSE IS PLACED

STAGE 3

22. MARK LIMITS OF EXCAVATION AS SHOWN ON STAGE 3 DRAWING;
23. INSTALL WELL POINTS AS SHOWN ON PLANS PREPARED BY OTHERS. SEE "WELL POINTING" NOTES DESCRIBED ON THIS DRAWING (C-140). THE WELL POINT (WP) LOCATIONS SHOWN ON THIS PLAN ARE DIAGRAMMATIC IN NATURE; IT MAY BE NECESSARY TO INSTALL MORE THAN WHAT IS SHOWN.
24. CLEAN THE DEBRIS PILE NEAR THE NORTHEAST CORNER OF THE PROPERTY;
25. EXCAVATE THE AREA TO DEPTHS NECESSARY FOR PROPOSED CONSTRUCTION. REFER TO DRAWING AC-220 FOR TYPICAL DEPTHS;
26. PLACE THE EXCAVATED SOIL AS SHOWN ON THE DRAWING, WITHIN THE FUTURE BUILDING FOOTPRINT;
27. BRING IN CLEAN FILL FOR RETAINING WALL SUBBASE, WALL BACKFILL AND CREATED WETLAND;
28. BUILD THE RETAINING WALL;
29. BACKFILL THE WALL WITH CLEAN FILL. GRADE THE PROPOSED WETLAND AREA AS SHOWN ON THE DRAWING;

STAGE 4

30. MARK LIMITS OF EXCAVATION AS SHOWN ON STAGE 4 DRAWING;
31. INSTALL WELL POINTS AS SHOWN ON PLANS PREPARED BY OTHERS. SEE "WELL POINTING" NOTES DESCRIBED ON THIS DRAWING (C-140). THE WELL POINT (WP) LOCATIONS SHOWN ON THIS PLAN ARE DIAGRAMMATIC IN NATURE; IT MAY BE NECESSARY TO INSTALL MORE THAN WHAT IS SHOWN.
32. EXCAVATE THE AREA NEAR THE NORTHERN PROPERTY LINE TO DEPTHS NECESSARY FOR PROPOSED CONSTRUCTION. REFER TO DRAWING AC-220 FOR TYPICAL DEPTHS;

[illegible] INSTALL MH AND THE ARCH PIPE;

[illegible] BRING IN THE CLEAN FILL. CREATE SWALE #1;

35. DRAG THE DEWATERING BAGS ONTO THE FILL AREA WITHIN THE PROPOSED BUILDING FOOTPRINTS. REMOVE THE SAND BED;
36. MARK LIMITS OF EXCAVATION NEAR THE WESTERN PROPERTY LINE;
37. EXCAVATE THE AREA TO DEPTHS NECESSARY FOR PROPOSED CONSTRUCTION. REFER TO DRAWING AC-220 FOR TYPICAL DEPTHS;
38. PUMP GROUNDWATER TO THE CREATED WETLAND MICROPOOL IF NECESSARY;
39. BRING IN CLEAN FILL FOR RETAINING WALL SUBBASE, WALL BACKFILL AND CREATED WETLAND;
40. BUILD THE RETAINING WALL;
41. BACKFILL THE WALL WITH CLEAN FILL. GRADE THE PROPOSED WETLAND AREA AS SHOWN ON THE DRAWING;

WELL POINTING

1. DESCRIPTION
THIS ITEM SHALL GOVERN FOR THE TEMPORARY DEWATERING OF EXCAVATION WORK, IN GENERAL SHALL INCLUDE:
A) DESIGNING, FURNISHING, INSTALLING, TESTING, OPERATING, MONITORING AND MAINTAINING A SYSTEM TO CONTROL GROUND WATER AND SURFACE WATER AS REQUIRED TO COMPLY WITH THE PERFORMANCE REQUIREMENTS SPECIFIED.
B) CONTROLLING AND REMOVING SEEPAGE AND SURFACE WATER FROM THE EXCAVATION, INCLUDING EXCAVATION SLOPE EROSION CONTROL.
C) PREVENTION OF SURFACE WATER FROM ENTERING THE TRENCH AND DIVERTING THE SURFACE WATER AWAY FROM THE SITE.
D) REMOVAL OF THE TEMPORARY DEWATERING SYSTEM AFTER COMPLETION OF THE SPECIFIED PORTION OF WORK.
E) REMOVAL OF GROUND WATER AND SURFACE WATER FROM ALL REMAINING EXCAVATION, AFTER REMOVAL OF THE TEMPORARY DEWATERING SYSTEM, UNTIL CONSTRUCTION HAS REACHED FINISHED GRADES.

2. QUALITY ASSURANCE
THE DEWATERING SYSTEM SHALL BE PERFORMED BY A FIRM WHICH HAS AT LEAST FIVE (5) YEARS OF SUCCESSFUL EXPERIENCE IN THE FIELD OF DEWATERING.

THE CONTRACTOR OR WELL POINTING FIRM SHALL ENGAGE A QUALIFIED SURVEYOR TO PERFORM ALL LAYOUTS AND MEASUREMENTS. THE SURVEYOR SHALL LAYOUT THE WORK TO THE LINES AND GRADES REQUIRED BEFORE INSTALLATION AND SHALL DETERMINE THE LOCATION OF EACH WELL POINT, PIEZOMETER AND OTHER DATA, AS REQUIRED.

THE SURVEYOR SHALL RECORD AND MAINTAIN ALL INFORMATION PERTINENT TO EACH WELL POINT AND PIEZOMETER. THE TEMPORARY DEWATERING SYSTEM AS SPECIFIED IN THESE SPECIFICATIONS SHALL BE THE MINIMUM SYSTEM REQUIRED FOR CONTROLLING GROUNDWATER, REGARDLESS OF SOURCE. THE INSTALLED SYSTEM SHALL BE CAPABLE OF LOWERING AND MAINTAINING THE GROUNDWATER TO AT LEAST 5-FEET BELOW THE BOTTOM OF THE EXCAVATION AND UNTIL THE REQUIRED UTILITIES ARE INSTALLED WITHIN THESE LIMITS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE ENTIRE TEMPORARY DEWATERING SYSTEM AND SHALL MAKE WHATEVER MODIFICATIONS AND ADDITIONS TO THE SYSTEM AS MAY BE REQUIRED FOR THE SYSTEM TO FULFILL ITS REQUIREMENTS.

3. PERFORMANCE REQUIREMENTS
THE CONTRACTOR SHALL:
A) DESIGN, FURNISH, INSTALL, TEST, OPERATE, MONITOR AND MAINTAIN THE MINIMUM WELL POINT SYSTEM AS SPECIFIED HEREIN, INCLUDING ALL DISCHARGE PIPING AND CONNECTIONS AT POINT OF DISCHARGE, SUFFICIENT TO LOWER THE GROUND WATER LEVEL OR HYDROSTATIC HEAD BELOW THE BOTTOM OF THE EXCAVATION OR LOWER, SO AS TO PREVENT SEEPAGE OF WATER INTO THE EXCAVATION AND PERMIT INSTALLATION OF ALL UTILITIES "IN THE DRY".
B) DESIGN, FURNISH AND INSTALL, TEST, OPERATE, MONITOR AND MAINTAIN WHATEVER ADDITIONAL SYSTEM THAT MAY BE NECESSARY TO SUPPLEMENT THE MINIMUM WELL POINT SYSTEM AS SPECIFIED HEREIN, AND TO MAINTAIN THE EXCAVATION FREE OF GROUNDWATER SEEPAGE AND SURFACE WATER, REGARDLESS OF SOURCE.
C) THE PERIPHERY OF THE ENTIRE EXCAVATION SHALL BE SUITABLY DIKED AND THE DIKES MAINTAINED TO PREVENT SURFACE WATER FROM ENTERING THE EXCAVATION.
D) ALL WATER SEEPING, FALLING OR RUNNING INTO THE EXCAVATION AS IT IS DUG, AND UNTIL THE TEMPORARY DEWATERING SYSTEM IS REMOVED AS SPECIFIED, SHALL BE PROMPTLY PUMPED OUT.
E) DISPOSE OF ALL SEEPAGE AND SURFACE WATER REMOVED FROM THE PROJECT, REGARDLESS OF SOURCE, BY METHODS APPROVED BY THE ENGINEER.
F) TAKE APPROPRIATE AND APPROVED MEASURES TO PREVENT EROSION OF THE EXCAVATED SOILS AND RAMP SLOPES.

4. MAINTENANCE
THE CONTRACTOR SHALL PROVIDE SYSTEM MAINTENANCE INCLUDING, BUT NOT LIMITED TO, AT LEAST DAILY SUPERVISION BY SOMEONE SKILLED IN THE OPERATION, MAINTENANCE, AND REPLACEMENT OF SYSTEM COMPONENTS AND SHALL PROVIDE ONE (1) SPARE (CONNECTED) DIESEL POWERED PUMP, AND ALL OTHER EQUIPMENT AND WORK REQUIRED BY THE ENGINEER TO MAINTAIN THE EXCAVATION IN A DEWATERED AND HYDROSTATICALLY RELIEVED CONDITION. DEWATERING AND PRESSURE RELIEF SHALL BE A CONTINUOUS OPERATION AND INTERRUPTIONS DUE TO POWER OUTAGES, OR ANY OTHER REASON, SHALL NOT BE PERMITTED. A RESPONSIBLE OPERATOR CAPABLE OF STARTING, RUNNING AND MAINTAINING SYSTEM AND STARTING STANDBY EQUIPMENT SHALL BE ON DUTY AT ALL TIMES. SOME RESPONSIBLE PERSON SHALL CONTINUOUSLY MONITOR THE DEWATERING AND SURFACE WATER CONTROL SYSTEM UNTIL THE CONTRACTOR HAS RECEIVED APPROVAL FROM THE ENGINEER THAT HE MAY DISCONTINUE SURFACE AND/OR GROUNDWATER CONTROL.

5. CORRECTION OF WORK
THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE FAILURE OF ALL COMPONENTS OF THE TEMPORARY DEWATERING WORK AND FOR ALL DAMAGES TO WORK IN THE EXCAVATION AREA CAUSED BY THE FAILURE TO PROVIDE, MAINTAIN, AND OPERATE THE TEMPORARY DEWATERING SYSTEM, AS SPECIFIED. CONTRACTOR SHALL RESTORE ALL DAMAGED WORK, INCLUDING FAILED COMPONENTS OF THE WORK, IN THIS SPECIFICATION TO A CONDITION AS GOOD OR BETTER THAN EXISTED PRIOR TO FAILURE OF COMPONENTS.

6. JOB CONDITIONS
THE CONTRACTOR SHALL PROVIDE PROTECTION OF PERSONS AND PROPERTY BY AT LEAST:
A) BARRICADING OPEN EXCAVATIONS OCCURRING AS PART OF THIS WORK AND POST WITH WARNING LIGHTS. OPERATE WARNING LIGHTS DURING THE HOURS FROM DUSK TO DAWN, EACH DAY. ALL BARRICADES, SIGNS AND OTHER TYPES OF DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE MUTCD.
B) PROTECT STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS AND OTHER FACILITIES FROM DAMAGE CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNDERMINING, WASHOUT AND OTHER HAZARDS CREATED BY TEMPORARY DEWATERING SYSTEM INSTALLATION AND OPERATION.

THE CONTRACTOR SHALL RESTORE ALL STREETS, DRIVEWAYS, CURBS, SIDEWALKS AND OTHER EXISTING ITEMS TO A CONDITION AS GOOD AS OR BETTER THAN EXISTED BEFORE WORK HAS COMMENCED, AT NO ADDITIONAL COST TO TOWN OF CARMEL.

LEGEND:

- SOIL EXCAVATION
- PROPOSED SOIL STOCKPILE (FOR THAT STAGE)
- EXISTING SOIL STOCKPILE (CUMULATIVE OF STAGES)
- EXISTING CONTOURS
- EXISTING DRAINAGE PIPE
- EXISTING VEGETATION LINE
- STABILIZED CONSTRUCTION ENTRANCE
- TEMPORARY STAGING AREA
- TEMPORARY PERIMETER DIKE/SWALE
- LIMIT OF EXCAVATION
- SILT FENCE
- CONSTRUCTION FENCE AND SILT FENCE
- INLET PROTECTION
- CLEAN FILL STOCKPILE
- WELL POINT

EXCAVATION AND FILL PLAN FOR WETLAND BUFFER

GRAPHIC SCALE

(IN FEET)
1 inch = 40 ft.

PUTNAM ENGINEERING PLLC
ENGINEERS - ARCHITECTS
4 OLD ROUTE 6, BREWSTER, NEW YORK 10509
(845) 279-8784 FAX (845) 279-8764

PROJECT: TOMPKINS RECYCLING FACILITY
CONSTRUCTION AND DEBRIS PROCESSING CENTER & RECYCLING
60 OLD ROUTE 6
TOWN of CARMEL
PUTNAM COUNTY, NEW YORK
TAX MAP No. 55.11, BLOCK 1, LOT 5

DATE: 10/13/05
PROJECT MANAGER: BK
DRAWN BY: ACK
CHECKED BY: PHL
SCALE: AS NOTED

DRAWING: EXCAVATION and FILL PLAN FOR WETLAND BUFFER

PROJECT NUMBER: 6280

DRAWING NUMBER: C-140

SHEET 6 OF 8

GENERAL NOTES

1. THE SITE SHALL BE DISTURBED ONLY WHERE NECESSARY. ONLY THE SMALLEST PRACTICAL AREA OF LAND SHALL BE EXPOSED (NO MORE THAN 5 ACRES) AT ANY ONE TIME DURING DEVELOPMENT. WHEN LAND IS EXPOSED, THE EXPOSURE SHALL BE KEPT TO THE SHORTEST PRACTICAL PERIOD OF TIME BY IMMEDIATE STABILIZATION PER THE STABILIZATION NOTES, UNLESS SPECIFIED OTHERWISE. ALL DISTURBED AREAS ARE CONSIDERED "STABILIZED" WHEN 80% OF UNIFORM, PERENNIAL VEGETATIVE COVER IS ACHIEVED OR EQUIVALENT STABILIZATION MEASURES (SUCH AS MULCHES, EROSION CONTROL BLANKET, ETC.) HAVE BEEN PROPERLY EMPLOYED, NO WORK SHALL CONTINUE BEFORE PRIOR DISTURBANCE IS STABILIZED.

2. WHEREVER FEASIBLE, NATURAL VEGETATION SHALL BE RETAINED AND PROTECTED.

3. AREAS UNDERGOING EARTHWORK, WHERE SOIL IS TO BE LEFT EXPOSED FOR MORE THAN FIFTEEN DAYS, SHOULD BE STABILIZED WITH EITHER TEMPORARY OR PERMANENT VEGETATIVE COVER. TEMPORARY COVER SHOULD BE USED WHEN THE PROJECT SCHEDULE DOES NOT COINCIDE WITH THE OPTIMUM PLANTING SEASON. IN GENERAL, OPTIMUM PLANTING TIMES FOR GRASSES ARE MARCH 15th TO MAY 31st AND SEPTEMBER 1st TO NOVEMBER 15th. DURING OPTIMUM PLANTING TIMES PERMANENT VEGETATIVE COVER WILL BE INSTALLED. SEE SPECIFICATIONS FOR FURTHER DETAILS.

4. THE PROJECT OWNER / DEVELOPER OR DESIGNATED REPRESENTATIVE SHALL ARRANGE A PRE-CONSTRUCTION MEETING INVITING THE CONTRACTOR, REPRESENTATIVES OF TOWN OF CARMEL, NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION AND NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION, AND TOWN AND PROJECT ENGINEERS, PRIOR TO START OF CONSTRUCTION ACTIVITIES.

5. TEMPORARY MEASURES SHALL BE MAINTAINED BY PROJECT OWNER / DEVELOPER OR A DESIGNATED REPRESENTATIVE (SUCH AS THE GENERAL CONTRACTOR) DURING THE ENTIRE CONSTRUCTION PERIOD. AFTER THE CONSTRUCTION IS COMPLETED A PERMANENT MEASURES SHALL BE MAINTAINED BY THE PROPERTY OWNER(S). LEGALLY BINDING DOCUMENTS SHALL BE INCLUDED WITH THE SALE OF THE PROPERTY (PROPERTIES) TO ENSURE FUTURE OWNERS MAINTAIN THE STORMWATER FACILITIES.

DEVELOPER/OWNER:

70 OLD ROUTE 6 LLC
P.O. BOX 308
BEDFORD, NY 10506

6. THE PROJECT OWNER / DEVELOPER OR DESIGNATED REPRESENTATIVE SHALL RETAIN THE SERVICE OF QUALIFIED PERSONNEL (LICENSED PROFESSIONAL ENGINEER, CERTIFIED PROFESSIONAL IN EROSION & SEDIMENT CONTROL-CPESC OR SOIL SCIENTIST) TO PERFORM SITE INSPECTIONS DURING THE CONSTRUCTION PERIOD AND FINAL SITE INSPECTION AT PROJECT COMPLETION.

7. THE CONTRACTOR SHALL MAKE AVAILABLE ON SITE, ALL EQUIPMENT, MATERIALS AND LABOR NECESSARY TO EFFECT EMERGENCY REPAIR AND REPLACEMENT OF THE EROSION CONTROL MEASURES.

8. SITE INSPECTIONS DURING CONSTRUCTION PERIOD SHALL BE PERFORMED AT LEAST EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT OF 0.5 INCHES OR GREATER. DURING WINTER, IF THE SOIL DISTURBANCE IS COMPLETELY SUSPENDED AND THE SITE IS PROPERLY STABILIZED, INSPECTION FREQUENCY MAY REDUCE, BUT SHALL MAINTAIN A MINIMUM OF MONTHLY INSPECTIONS IN ALL SITUATIONS (EVEN WHEN THERE IS TOTAL WINTER SHUTDOWN). DURING PERIODS OF REDUCED INSPECTION FREQUENCY, INSPECTIONS MUST STILL BE DONE AFTER EVERY STORM EVENT OF 0.5 INCHES OR GREATER. TO BE ALLOWED TO REDUCE INSPECTION FREQUENCIES, THE OPERATOR MUST COMPLETE STABILIZATION ACTIVITIES (PERIMETER CONTROLS, TRAPS, BARRIERS, ETC.) BEFORE PROPER INSTALLATION IS PRECLUDED BY SNOW COVER OR FROZEN GROUND. IF VEGETATION IS DESIRED, SEEDING, PLANTING, AND/OR SODDING MUST BE SCHEDULED TO AVOID DIE-OFF FROM FALL FROSTS AND ALLOW FOR PROPER GERMINATION/ESTABLISHMENT.

9. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST BY SPRINKLING EXPOSED AREAS PERIODICALLY WITH WATER.

10. THE PROJECT OWNER / DEVELOPER OR DESIGNATED REPRESENTATIVE SHALL KEEP INSPECTION REPORTS AND LOGS AT THE SITE. A SUMMARY OF INSPECTION ACTIVITIES SHALL BE POSTED AT A PUBLICLY ACCESSIBLE AREA OF THE SITE ON A MONTHLY BASIS.

11. PRIOR TO START OF CONSTRUCTION ACTIVITIES, THE PROJECT OWNER / DEVELOPER OR DESIGNATED REPRESENTATIVE SHALL CERTIFY ON THE INSPECTION LOG THAT A SWPPP HAS PROPERLY PREPARED FOR THE PROJECT AND CONFORMS TO ALL FEDERAL, STATE AND LOCAL EROSION & SEDIMENT CONTROL REQUIREMENTS.

12. THE PROJECT OWNER / DEVELOPER OR DESIGNATED REPRESENTATIVE SHALL PROVIDE A PHONE NUMBER TO THE DIRECTOR OF CODE ENFORCEMENT FOR USE IN EMERGENCY SITUATIONS.

13. THE OWNER/DEVELOPER SHALL MAINTAIN THE CONSTRUCTION SITE FREE OF DEBRIS, LITTER AND CONSTRUCTION CHEMICALS. A DUMPSTER SHALL BE LOCATED ON THE SITE AND PICK UP ARRANGED WHEN IT IS FULL.

ON SITE POLLUTION CONTROL MEASURES

A. POLLUTION PREVENTION MEASURES TO CONTROL LITTER, CONSTRUCTION CHEMICALS AND CONSTRUCTION DEBRIS.

1. THERE SHALL BE A RECEPTACLE PLACED ON THE SITE TO TEMPORARILY STORE GARBAGE, DEBRIS OR CONSTRUCTION WASTE MATERIALS. THE CONTAINER SHALL NOT BE USED TO TRANSFER ANY GARBAGE FROM ANY OTHER OFF-SITE ACTIVITY.

2. THE RECORD OWNER SHALL BE RESPONSIBLE FOR KEEPING THE SITE FREE OF LITTER AT ALL TIMES DURING CONSTRUCTION ACTIVITIES THE OWNER MAY DESIGNATE A CONTRACTOR IN CHARGE AS A RESPONSIBLE PARTY.

3. THE SITE SHALL BE INSPECTED AT THE END OF EACH WORKDAY AND TRASH, DEBRIS AND GARBAGE SHALL BE PICKED UP AND PLACED IN ON-SITE DUMPSTERS OR OTHERWISE REMOVED FROM THE SITE.

4. A PORTABLE TOILET FACILITY SHALL BE PROVIDED FOR CONSTRUCTION WORKERS AND AN ADDITIONAL FACILITY FOR EVERY 10 ON-SITE WORKERS.

5. CONSTRUCTION VEHICLES SHALL BE SERVICED OFF-SITE AT A PROPER FACILITY. LEAKING OR ILL REPAIRED VEHICLES SHALL NOT BE LOCATED ON SITE. NO OIL CHANGES ARE PERMITTED ON SITE. FUELING OF VEHICLES ON SITE SHALL BE CAREFULLY PERFORMED WITH AN APPROVED DISPENSER NOZZLE HOSE AND PUMP. SPILLS SHALL PROMPTLY BE REPORTED TO THE NYSDEC AND TOWN. SORBO PADS AND ROLLS SHALL BE USED TO TEMPORARILY CONTAIN ANY SPILLS.

6. CHEMICAL SOIL ADDITIVES OR HERBICIDES SHALL NOT BE USED ON SITE DURING CONSTRUCTION.

7. THE CONTAINERS SHALL BE OF SUFFICIENT SIZE FOR THE CONSTRUCTION ACTIVITY. CONTAINERS SHALL BE EMPTIED BY AN APPROVED CARTER TO A PROPER FACILITY WHEN FULL. CONTAINERS SHALL BE COVERED TO PREVENT INFILTRATION OF RAIN AND WEATHER AND TO PREVENT WINDBORNE DEBRIS REMOVAL.

8. PAINTS, CHEMICALS OR OTHER TOXIC SUBSTANCES SHALL NOT BE PLACED IN TRASH CONTAINERS. PAINTS, CHEMICALS OR TOXIC SUBSTANCES SHALL BE REMOVED FROM SITE BY AN APPROVED/LICENSED CARTER.

9. THERE SHALL BE NO OPEN FIRES OR BARREL FIRES PERMITTED.

10. DEBRIS OR TRASH PILES ARE NOT PERMITTED. DEBRIS SHALL BE PLACED IN CONTAINERS. TEMPORARY PILES OF BRUSH OR STUMPS SHALL BE PROTECTED BY SILT FENCE SIMILAR TO TOPSOIL STOCKPILES.

B. ON SITE STORAGE OF CONSTRUCTION AND WASTE MATERIALS

1. CONSTRUCTION MATERIALS STORED ON SITE ARE ANTICIPATED TO BE:

A. SAND, STONE AND CRUSHED ROCK
B. BRUSH OR TREE STUMPS
C. SOIL STOCKPILES
D. BUILDING PRODUCTS (WOOD, STEEL FRAMING, INSULATOR BOARDS, PLYWOOD, PIPE, DRAINAGE STRUCTURES)
E. CONSTRUCTION EQUIPMENT AND MACHINERY
F. DUMPSTERS OR STORAGE CONTAINERS

2. POLLUTION CONTROLS SHALL CONSIST OF:

A. POLLUTION PREVENTION MEASURES DESCRIBED IN SECTION "A".
B. THE COVERING OF EXPOSED PRODUCTS WHEN NOT IN USE

SEQUENCE OF CONSTRUCTION

IN ORDER TO EFFECTIVELY CONTROL EROSION AND SEDIMENT, CONTRACTOR SHALL FOLLOW THE LOCATION, MATERIALS AND PROCEDURES SHOWN ON THE "EXCAVATION AND FILL PLAN", DRAWING C-140, "EROSION AND SEDIMENT CONTROL PLAN", DRAWING C-141, DETAILS SHOWN ON SHEETS C-510 AND THE FOLLOWING SEQUENCE OF CONSTRUCTION.

1. CONTRACTOR TO RETAIN ALL EROSION CONTROL MEASURES AS SHOWN ON DRAWING 4C-140.

2. RELOCATE THE STABILIZED CONSTRUCTION ENTRANCE TO THE PROPOSED GATE #2 LOCATION AS SHOWN ON THE PLAN

3. EXCAVATE TRENCHES FOR DRY SWALES #1 & #2 AND FOR UNDERDRAIN PIPES. INSTALL YARD DRAIN #2 AND MANHOLE MH ALONG WITH CONNECTING AND OUTGOING PIPES. TRENCHES TO BE BACKFILLED IMMEDIATELY UPON COMPLETION OF INSTALLATION OF PIPES. EXPOSED SOIL TO BE STABILIZED IMMEDIATELY AFTER BACKFILL.

4. PROTECT INLET PER DETAIL 10/C-510.

5. INSTALL TEMPORARY EARTH DIKE/SWALE #2.

6. ROUGH GRADE THE SITE. FILL MATERIAL SHALL BE FREE FROM ROOTS, VEGETATION AND OVERSIZED STONES. FILL TO BE PLACED IN 8 INCH LIFTS AND COMPACTED TO 95% DRY DENSITY BY MECHANICAL MEANS. STABILIZE DISTURBED AREAS IMMEDIATELY AFTER GRADING PER "STABILIZATION NOTES". ALL FILL IMPORTED FOR THE SITE SHALL INCLUDE A MANIFEST ATTESTING TO IT BEING CLEAN FILL.

7. CONSTRUCT BUILDING TO INCLUDE GREEN ROOF, AND WEIGHT STATION. INSTALL ROOF DRAINS. CONNECT THE BUILDING TO THE UTILITY LINES. COMPLETE GRADING AROUND THE BUILDING.

8. INSTALL PROPOSED CURBING AND PAVEMENT. BRING PAVEMENT TO BINDER COURSE ELEVATION.

9. COMPLETE REMAINING SITE WORK, FINAL GRADING AND BUILDING CONSTRUCTION.

10. CLEAN ACCUMULATED SEDIMENT IN TEMPORARY SWALES. RESTORE AND UPGRADE TO PERMANENT SWALES. CLEAN ALL DRAINAGE STRUCTURES.

11. REMOVE ANY ACCUMULATED SEDIMENT FROM THE CREATED WETLAND. REMOVE TEMPORARY RISER PIPE. INSTALL TRASH RACK ON OUTLET STRUCTURE. COL GRADE BOTTOM AS SHOWN ON THE PLAN. PLANT WETLAND VEGETATION AS SHOWN ON DRAWING C-180.

12. RAISE CATCH BASINS AND MANHOLE RIMS TO TOP COURSE ELEVATION. REMOVE TEMPORARY CONSTRUCTION ENTRANCES. RESTORE PAVEMENT AT THIS LOCATION AND INSTALL TOP COURSE PAVEMENT FOR THE ENTIRE SITE.

13. REMOVE ALL TEMPORARY EROSION CONTROL MEASURES TO INCLUDE SILT FENCE.

14. UPON COMPLETION OF ALL ABOVE ACTIVITIES AND SATISFACTORY ESTABLISHMENT OF VEGETATION ON ALL DISTURBED AREAS, CONTRACTOR TO PERFORM FINAL CLEANING OF THE PROJECT SITE.

STABILIZATION NOTES:

1. TEMPORARY VEGETATIVE COVER:

A. SCARIFY COMPACTED SOIL AREAS.
B. LIME AS REQUIRED TO PH 6.5.
C. FERTILIZE WITH 10-10-10 AT RATE 300 LBS/AC.
D. INCORPORATE AMENDMENTS INTO SOIL WITH DISC HARROW.
E. SEED AS FOLLOWS:

* SPRING/SUMMER/EARLY FALL PLANTING: ANNUAL RYEGRASS AND CEREAL OATS AT 50 LBS/ACRE.

* LATE FALL/EARLY WINTER PLANTING: AROOSTOOK WINTER RYE AT 100 LBS/AC.

MULCH SEEDS WITH 2 TONS OF STRAW PER ACRE. ANCHOR AS NEEDED.

DURING WINTER CONSTRUCTION OR PERIODS OF WET WEATHER, TEMPORARY SLOPE STABILIZATION SHALL BE PROVIDED BY EITHER A ROLLED EROSION CONTROL PRODUCT OR A HEAVY MULCH LAYER SUITABLY ANCHORED. THE CONTRACTOR MUST RESEED THE AREA IN THE SPRING WITH THE APPROPRIATE SEEDING.

DURING DRY WEATHER CONSTRUCTION, ALL SEEDED AREAS ARE TO BE ADEQUATELY WATERED TO INSURE VEGETATED COVER.

2. PERMANENT VEGETATIVE COVER.

A. GRADE TO FINISHED SLOPES.
B. SCARIFY COMPACTED SOIL AREAS.
C. TOPSOIL WITH NOT LESS THAN FOUR (4) INCHES OF SUITABLE TOPSOIL MATERIAL.
D. LIME AS REQUIRED TO PH 6.5.
E. FERTILIZE WITH 10-6-4 AT RATE 300 LBS/AC.
D. SEED AS FOLLOWS:

TYPE I — FOR USE ON MOWED AREAS (INCLUDING SWALES):

SEED	LBS/AC
KENTUCKY BLUE GRASS	20
CREEPING RED FESCUE	20
RED TOP OR RYE GRASS	5

TYPE II — FOR USE ON BASIN SIDE SLOPES AND ON NON-MOWED AREAS: USE "ERNMX-178" SEED MIX (ERNST CONSERVATION SEEDS, LLP) OR EQUIVALENT. SEEDS INCLUDED IN THE MIX ARE LISTED BELOW. APPLICATION RATE IS LBS/ACRE.

SOLIDAGO	INDIAN GRASS	OX EYE SUNFLOWER
BIG BLUESTEM	VIRGINIA WILD RYE	BLACK EYED SUSAN
LITTLE BLUESTEM	FOX SEDGE	SOFT RUSH
FALSE INDIGO	PARTRIDGE PEA	COMMON MILKWEED
SILKY DOGWOOD	BLUE VERVAIN	WILD BERGAMOT

WILDFLOWER AREAS TO BE MOWED ONCE PER YEAR IN LATE FALL.
MULCH SEEDS WITH 2 TONS OF STRAW PER ACRE. ANCHOR AS NEEDED.

TYPE III — FOR USE ON GREEN ROOFS USE "NON-MOW COVER MIX" SEED MIX (ERNST CONSERVATION SEEDS, LLP) OR EQUIVALENT. SEEDS INCLUDED IN THE MIX ARE LISTED BELOW. APPLICATION RATE IS LBS/ACRE.

PENNLAWN CREEPING RED FESCUE
RESCUE 911 HARD FESCUE
"STONEHENGE" HARD FESCUE
ANNUAL RYEGRASS

MAINTENANCE PROGRAM:

1. THE PROJECT CONTRACTOR WILL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES WITHIN THE PROJECT PROPERTY.

2. PRIOR TO THE DETERMINATION OF A PROJECT CONTRACTOR THE PROJECT APPLICANT SHALL BE RESPONSIBLE FOR MAINTENANCE OF ALL TEMPORARY AND PERMANENT MEASURES.

TEMPORARY MEASURES

A. SILT FENCE. SEDIMENT SHALL BE REMOVED FROM BEHIND THE FENCE WHEN IT BECOMES 0.5 FEET DEEP AT THE FENCE. IT SHOULD ALSO BE INSPECTED WEEKLY AND PRIOR TO AND WITHIN 24 HOURS AFTER ALL FORECASTED STORM EVENTS, REPAIR SHALL BE PERFORMED AS NEEDED.

B. SWALES. PROPOSED SWALES ARE USED AS DIVERSION SWALES DURING THE CONSTRUCTION PHASE. THESE SWALES ARE TO BE INSPECTED WEEKLY AND PRIOR TO AND WITHIN 24 HOURS AFTER ALL FORECASTED STORM EVENTS FOR SCOUR AND EROSION. REMOVE DEPOSITS OR SEDIMENT OR OTHER OBSTRUCTIONS.

C. CONSTRUCTION ENTRANCE. CONSTRUCTION ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. VISUAL INSPECTION SHALL BE PERFORMED DAILY THROUGHOUT THE PROJECT CONSTRUCTION. TOP DRESSING WITH ADDITIONAL STONE OR ADDITIONAL LENGTH AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.

D. INLET PROTECTION. INLET PROTECTION SHALL BE INSPECTED WEEKLY AND PRIOR TO AND WITHIN 24 HOURS AFTER ALL FORECASTED STORM EVENTS. SEDIMENTS AND DEBRIS SHALL BE REMOVED FROM BEHIND THE FENCE IF PRESENT. REPAIR SHALL BE PERFORMED AS NEEDED.

E. PERIMETER DIKE/SWALES. TO BE INSPECTED WEEKLY AND PRIOR TO AND WITHIN 24 HOURS AFTER ALL FORECASTED STORM EVENTS FOR SCOUR AND EROSION. REMOVE DEPOSITS OR SEDIMENTS OR OTHER OBSTRUCTIONS.

F. WELL POINTS. A RESPONSIBLE OPERATOR CAPABLE OF MAINTAINING THE DEWATERING SYSTEM SHALL BE ON DUTY AT ALL TIMES. REPLACEMENT OF SYSTEM COMPONENTS, TO INCLUDE ONE DIESEL POWERED PUMP SHALL BE AVAILABLE ON THE SITE.

VEHICLE & EQUIPMENT FUELING and WET NOZZLE REPORT:

DESCRIPTION AND PURPOSE

VEHICLE EQUIPMENT FUELING PROCEDURES AND PRACTICES ARE DESIGNED TO PREVENT FUEL SPILLS AND LEAKS, AND REDUCE OR ELIMINATE CONTAMINATION OF STORMWATER. THIS CAN BE ACCOMPLISHED BY FUELING IN DESIGNATED AREAS ONLY, IMPLEMENTING SPILL CONTROLS, AND TRAINING EMPLOYEES AND SUBCONTRACTORS IN PROPER FUELING PROCEDURES.

SUITABLE APPLICATIONS

THESE PROCEDURES ARE SUITABLE ON ALL CONSTRUCTION SITES WHERE VEHICLE AND EQUIPMENT FUELING TAKES PLACE.

LIMITATIONS

ONSITE VEHICLE AND EQUIPMENT FUELING SHOULD ONLY BE USED WHERE IT IS IMPRACTICAL TO SEND VEHICLES AND EQUIPMENT OFFSITE FOR FUELING.

IMPLEMENTATION

- DISCOURAGE "TOPPING-OFF" OF FUEL TANKS.
- ABSORBENT SPILL CLEANUP MATERIALS AND SPILL KITS SHALL BE AVAILABLE IN FUELING AREAS AND ON FUELING TRUCKS, AND SHOULD BE DISPOSED OF PROPERLY AFTER USE.
- DRIP PANS OR ABSORBENT PADS SHOULD BE USED DURING VEHICLE AND EQUIPMENT FUELING, UNLESS THE FUELING IS PERFORMED OVER AN IMPERMEABLE SURFACE IN A DEDICATED FUELING AREA.
- USE ABSORBENT MATERIALS ON SMALL SPILLS. DO NOT HOSE DOWN OR BURY THE SPILL. REMOVE THE ADSORBENT MATERIALS PROMPTLY AND DISPOSE OF PROPERLY.
- AVOID MOBILE FUELING OF MOBILE CONSTRUCTION EQUIPMENT AROUND THE SITE; RATHER, TRANSPORT THE EQUIPMENT TO DESIGNATED FUELING AREAS. WITH THE EXCEPTION OF TRACKED EQUIPMENT SUCH AS BULLDOZERS AND LARGE EXCAVATORS, MOST VEHICLES SHOULD BE ABLE TO TRAVEL TO A DESIGNATED AREA WITH LITTLE LOST TIME.
- EMPLOYEES AND SUBCONTRACTORS SHALL BE TRAINED IN PROPER FUELING AND CLEANUP PROCEDURES.
- WHEN FUELING MUST TAKE PLACE OUTSIDE, DESIGNATE AN AREA AWAY FROM DRAINAGE COURSES TO BE USED.
- DEDICATED FUELING AREAS SHOULD BE PROTECTED FROM STORMWATER RUNON AND RUNOFF, AND SHOULD BE LOCATED AT LEAST 50 FT AWAY FROM DOWNSTREAM DRAINAGE FACILITIES AND WATERCOURSES. FUELING MUST BE PERFORMED ON LEVEL-GRADE AREAS.
- PROTECT FUELING AREAS WITH BERMS AND DIKES TO PREVENT RUNON, RUNOFF, AND TO CONTAIN SPILLS.
- NOZZLE USED IN VEHICLE AND EQUIPMENT FUELING SHOULD BE EQUIPPED WITH AN AUTOMATIC SHUTOFF TO CONTROL DRIPS. FUELING OPERATIONS SHOULD NOT BE LEFT UNATTENDED.
- FEDERAL, STATE AND LOCAL REQUIREMENTS SHOULD BE OBSERVED FOR ANY STATIONARY ABOVE GROUND STORAGE TANKS.

INSPECTION AND MAINTENANCE

- VEHICLES AND EQUIPMENT SHOULD BE INSPECTED EACH DAY OF USE FOR LEAKS. LEAKS SHOULD BE REPAIRED IMMEDIATELY OR PROBLEM VEHICLES OR EQUIPMENT SHOULD BE REMOVED FROM THE PROJECT SITE.
- KEEP AMPLE SUPPLIES OF SPILL CLEANUP MATERIALS ONSITE.
- IMMEDIATELY CLEAN UP SPILLS AND PROPERLY DISPOSE OF CONTAMINATED SOIL AND CLEANUP MATERIALS.

PERMANENT MEASURES

GRASS SWALE MAINTENANCE ITEM	SATISFACTORY / UNSATISFACTORY	COMMENTS
1. DEBRIS CLEANOUT (MONTHLY) CONTRIBUTING AREAS CLEAN OF DEBRIS		
2. CHECK DAMS OR ENERGY DISSIPATORS (ANNUAL, PRIOR TO AND WITHIN 24 HOURS AFTER ALL FORECASTED MAJOR STORMS) NO EVIDENCE OF FLOW GOING AROUND STRUCTURES NO EVIDENCE OF EROSION AT DOWNSTREAM TOE SOIL PERMEABILITY GROUNDWATER/BEDROCK		
3. VEGETATION (MONTHLY) MOWING DONE WHEN NEEDED MINIMUM MOWING DEPTH NOT EXCEEDED NO EVIDENCE OF EROSION AT DOWNSTREAM TOE FERTILIZED PER SPECIFICATION		
4. DEWATERING (MONTHLY) DEWATERS BETWEEN STORMS		
5. SEDIMENT DEPOSITION (ANNUAL) CLEAN OF SEDIMENT		
6. OUTLET/OVERFLOW SPILLWAY (ANNUAL) GOOD CONDITION, NO NEED FOR REPAIRS NO EVIDENCE OF EROSION		

GREEN ROOF MAINTENANCE ITEM	SATISFACTORY / UNSATISFACTORY	COMMENTS
1. VISUAL INSPECTION (EVERY 6 MONTHS) A) VEGETATION VIABILITY (WATER WHEN NECESSARY) B) SIGN OF WATER LEAKAGE		
2. MAINTENANCE (EVERY 6 MONTHS) A) WEEDING OF INVASIVE SPECIES B) FERTILIZE IF NECESSARY C) MEMBRANE INSPECTION (REPLACE WHEN NECESSARY)		

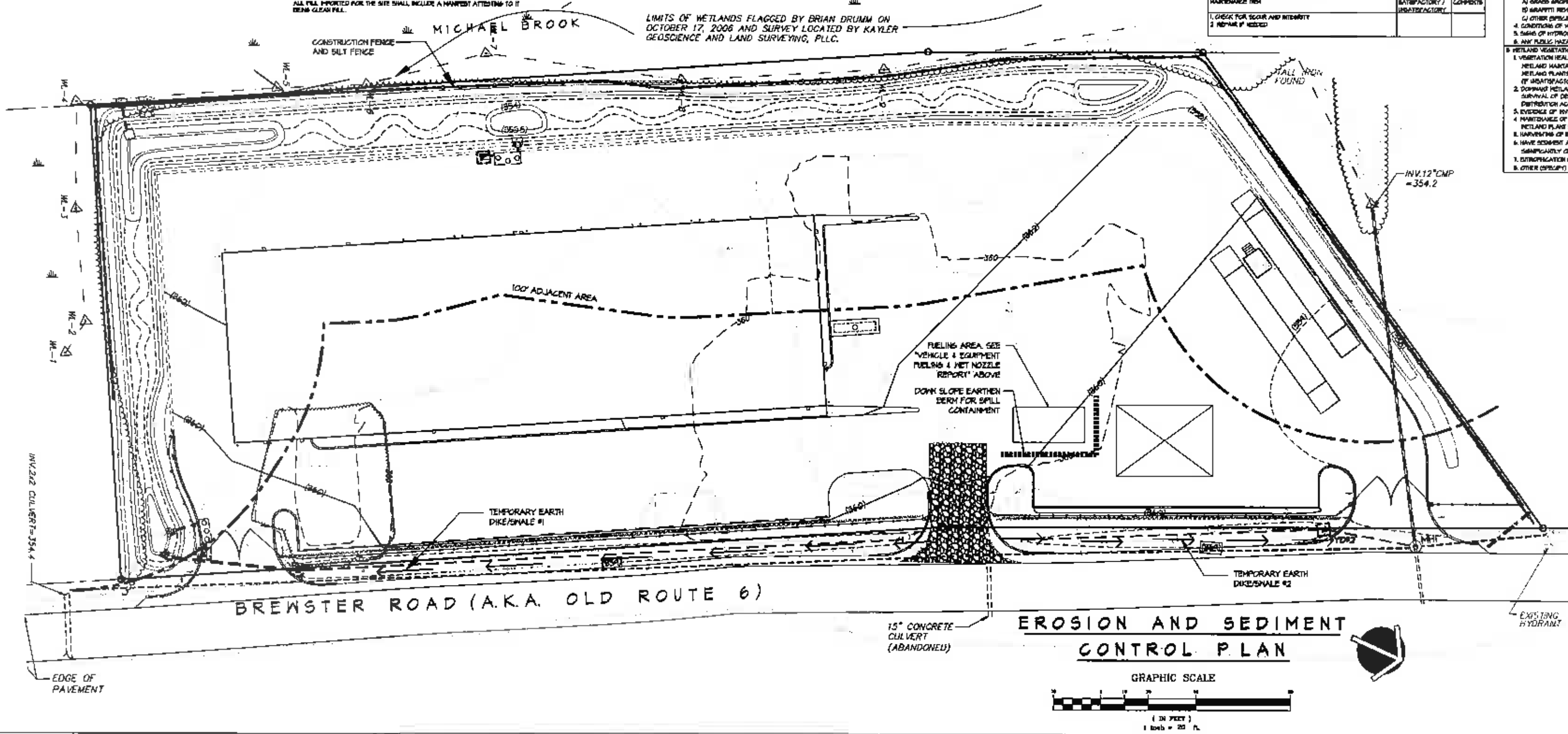
VORTECHS MAINTENANCE ITEM	SATISFACTORY / UNSATISFACTORY	COMMENTS
1. VISUAL INSPECTION (EVERY 3 MONTHS) A) SEDIMENT ACCUMULATION B) LEVEL OF GREASE ON THE WATER SURFACE		
2. MAINTENANCE (EVERY 6 MONTHS OR AS ESTABLISHED AFTER FIRST YEAR OF OPERATION) A) VACUUM WHEN SEDIMENT ACCUMULATES WITHIN 6 INCHES OF THE DRY WEATHER WATER LEVEL B) SIGN OF EROSION AROUND STRUCTURE C) OVERALL FUNCTION OF FACILITY IN GOOD CONDITION, NO NEED FOR REPAIR		

CATCH BASIN / YARD DRAIN / MANHOLE MAINTENANCE ITEM	SATISFACTORY / UNSATISFACTORY	COMMENTS
1. VISUAL INSPECTION (EVERY 3 MONTHS) 1. SEDIMENT ACCUMULATION AT: A) RIM B) SUMP 2. SIGN OF EROSION AROUND STRUCTURE 3. SIGN OF STORMWATER BYPASS		
2. MAINTENANCE (EVERY 3 MONTHS) A) REMOVE SEDIMENT IN SUMP IF GREATER THAN 12" DEEP B) CLEAR RIM OF DEBRIS AND LEAVES C) CLEAR DEBRIS IN INLET CHANNEL D) REPAIR ERODED PORTION OF INLET CHANNEL (IF ANY)		

STORM PIPES (TWICE A YEAR AND BEFORE ALL MAJOR FORECASTED STORMS) MAINTENANCE ITEM	SATISFACTORY / UNSATISFACTORY	COMMENTS
1. STRUCTURAL INTEGRITY 2. SIGN OF CLOGGING		

RIP RAP OUTLET PROTECTION (ONCE A YEAR AND AFTER MAJOR STORMS) MAINTENANCE ITEM	SATISFACTORY / UNSATISFACTORY	COMMENTS
1. CHECK FOR SCOUR AND INTEGRITY 2. REPAIR IF NEEDED		

STORMWATER POND/WETLAND MAINTENANCE ITEM	SATISFACTORY / UNSATISFACTORY	COMMENTS
A. EMBANKMENT AND EMERGENCY SPILLWAY (ANNUAL, PRIOR TO AND WITHIN 24 HOURS AFTER ALL FORECASTED MAJOR STORMS) 1. VEGETATION AND GROUND COVER ADEQUATE 2. EMBANKMENT EROSION 3. ANIMAL BURROWS 4. UNAUTHORIZED PLANTING 5. CRACKING, BULGING, OR SLIDING OF DAM A) UPSTREAM FACE B) DOWNSTREAM FACE C) AT OR BEYOND TOE DOWNSTREAM UPSTREAM D) EMERGENCY SPILLWAY 6. POND, TOE & CHIMNEY DRAINS CLEAR AND FUNCTIONING 7. SEEPS/LEAKS ON DOWNSTREAM FACE 8. SLOPE PROTECTION OR RIPRAP FAILURE 9. VERTICAL/HORIZONTAL ALIGNMENT OF TOP OF DAM "AS-BUILT" 10. EMERGENCY SPILLWAY CLEAR OF OBSTRUCTIONS AND DEBRIS 11. OTHER (SPECIFY)		
2. RISER AND PRINCIPAL SPILLWAY (ANNUAL) TYPE: REINFORCED CONCRETE CORRUGATED PIPE MASONRY 1. LOW FLOW ORIFICE OBSTRUCTED 2. LOW FLOW TRASH RACK A) DEBRIS REMOVAL NECESSARY B) CORROSION CONTROL 3. WEIR TRASH RACK MAINTENANCE A) DEBRIS REMOVAL NECESSARY B) CORROSION CONTROL 4. EXCESSIVE SEDIMENT ACCUMULATION INSIDER RISER 5. CONCRETE/MASONRY CONDITION RISER AND BARRELS A) CRACKS OR DISPLACEMENT B) MINOR SPALLING (<1") C) MAJOR SPALLING (REBARS EXPOSED) D) JOINT FAILURES E) WATER TIGHTNESS 6. METAL PIPE CONDITION 7. CONTROL VALVE A) OPERATIONAL/EXERCISED B) CHAINED AND LOCKED 8. POND DRAIN VALVE A) OPERATIONAL/EXERCISED B) CHAINED AND LOCKED 9. OUTFALL CHANNELS FUNCTIONING 10. OTHER (SPECIFY)		
3. PERMANENT POOL (WET PONDS) (MONTHLY) 1. UNDESIRABLE VEGETATION GROWTH 2. FLOATING OR FLOATABLE DEBRIS REMOVAL REQUIRED 3. VISIBLE POLLUTION 4. SHORELINE PROBLEM 5. OTHER (SPECIFY)		
4. SEDIMENT FOREBAYS 1. SEDIMENTATION NOTED 2. SEDIMENT CLEANOUT WHEN DEPTH >50% DESIGN DEPTH		
5. DRY POND AREAS 1. VEGETATION ADEQUATE 2. UNDESIRABLE VEGETATIVE GROWTH 3. UNDESIRABLE WOODY VEGETATION 4. LOW FLOW CHANNELS CLEAR OF OBSTRUCTIONS 5. STANDING WATER OR WET SPOTS 6. SEDIMENT AND/OR TRASH ACCUMULATION 7. OTHER (SPECIFY)		
6. CONDITION OF OUTFALLS (ANNUAL, AFTER MAJOR STORMS) 1. RIPRAP FAILURES 2. SLOPE EROSION 3. STORM DRAIN PIPES 4. ENDWALLS/HEADWALLS 5. OTHER (SPECIFY)		
7. OTHER (MONTHLY) 1. ENCROACHMENT ON POND, WETLAND OR EASEMENT AREA 2. COMPLAINTS FROM RESIDENTS 3. AESTHETICS A) GRASS GROWING REQUIRED B) GRAFFITI REMOVAL NEEDED C) OTHER (SPECIFY) 4. CONDITIONS OF MAINTENANCE ACCESS ROUTES 5. SIGNS OF HYDROCARBON BUILDUP 6. ANY PUBLIC HAZARDS (SPECIFY)		
8. WETLAND VEGETATION (ANNUAL) 1. VEGETATION HEALTHY AND GROWING WETLAND MAINTAINING 50% SURFACE AREA COVERAGE OF WETLAND PLANTS AFTER THE SECOND GROWING SEASON. (IF UNSATISFACTORY, REINFORCEMENT PLANTINGS NEEDED) 2. DOMINANT WETLAND PLANTS SURVIVAL OF DESIRED WETLAND PLANT SPECIES DISTRIBUTION ACCORDING TO LANDSCAPING PLAN? 3. EVIDENCE OF INVASIVE SPECIES 4. MAINTENANCE OF ADEQUATE WATER DEPTHS FOR DESIRED WETLAND PLANT SPECIES 5. HARVESTING OF EMERGENT PLANTINGS NEEDED 6. HAVE SEDIMENT ACCUMULATIONS REDUCED POOL VOLUME SIGNIFICANTLY OR ARE PLANTS "CHOKED" WITH SEDIMENT 7. EUTROPHICATION LEVEL OF THE WETLAND 8. OTHER (SPECIFY)		



EROSION CONTROL LEGEND:

	EXISTING CONTOURS
	EXISTING DRAINAGE PIPE
	EXISTING VEGETATION LINE
	TEMPORARY STAGING AREA
	STABILIZED CONSTRUCTION ENTRANCE
←— ←—	TEMPORARY SWALE
	LIMIT OF DISTURBANCE
— SF —	SILT FENCE
	CONSTRUCTION FENCE
	INLET PROTECTION

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ENGINEERS – ARCHITECTS
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PURSUANT TO NEW YORK STATE EDUCATION LAW, ARTICLE 145, SECTION 7209, SUBDIVISION 2, IT IS A VIOLATION OF THIS LAW FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ENGINEER IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

REVISIONS

NO.	DATE	DESCRIPTION
3	[illegible]	ISSUED FOR APPROVAL
4	[illegible]	REVISED PER T.E. COMMENTS
5	[illegible]	P.B. SUBMISSION
6	[illegible]	NYCDEP SUBMISSION
7	[illegible]	NYCDEP & NYSDEC SUBMISSION
8	[illegible]	CHANGES PER NYSDEC
9	[illegible]	CHANGES PER NYSDEC
10	[illegible]	CHANGES PER NYSDEC
11	[illegible]	P.B. SUBMISSION
12	[illegible]	DEP DEC SUBMISSION
13	[illegible]	DEP DEC SUBMISSION
14	[illegible]	P.B. Z.B.A. SUBMISSION
15	[illegible]	CHANGED PER NYSDEC
16	[illegible]	REVISED PER NYSDEC
17	[illegible]	DEC SUBMISSION
18	[illegible]	REV. PER T.E. COMMENTS
19	[illegible]	RESUBMISSION TO P.B.
20	[illegible]	SUBMISSION FOR FINAL
21	[illegible]	INFORMATION FOR PERMIT
22	[illegible]	REVISION TO DETAIL SHEET

PROJECT: TOMPKINS RECYCLING FACILITY
CONSTRUCTION AND DEBRIS PROCESSING CENTER & RECYCLING
80 OLD ROUTE 6
TOWN OF CARMEL
PUTNAM COUNTY, NEW YORK
TAX MAP No. 55.11, BLOCK 1, LOT 15

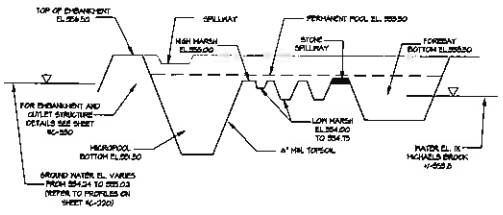
DATE: [illegible]
PROJECT MANAGER: BK
DRAWN BY: [illegible]
CHECKED BY: [illegible]
SCALE: AS NOTED

DRAWING: EROSION AND SEDIMENT CONTROL PLAN

PROJECT NUMBER: [illegible]

DRAWING NUMBER: C-141

SHEET 7 OF 8



SCHEMATIC WETLAND PROFILE

N.T.S.

WETLAND PLANTING LEGEND:

WETLAND BUFFER SEED MIX: RIPARIAN BUFFER MIX (ERNM-118 OR EQUIVALENT) SEEDED AT 15 POUNDS PER ACRE.

SEEDING WILL BE SUPPLEMENTED WITH BARE ROOT PLANT MATERIAL AT SPACING OF 3 FEET ON CENTER AS SHOWN ON PLAN. THE FOLLOWING SPECIES ARE TO BE USED:

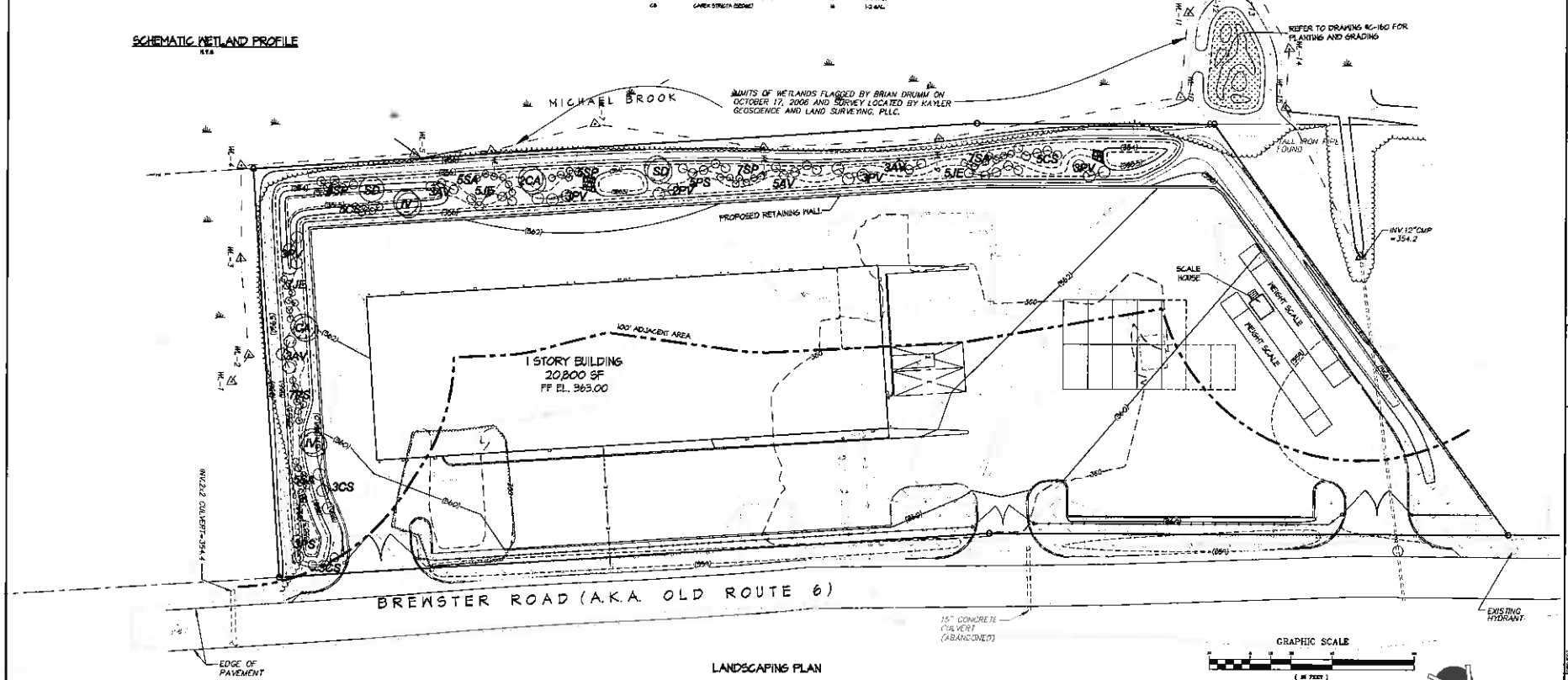
SYMBOL	PLANTING	# OF PLANTS	SIZE
CA	CLETHRA ALNIFOLIA (SWEET PEPPERBUSH)	3	2-3 GAL.
SP	SPIRAEA PUMILA (GLENWOOD SPICE-SQUARE)	17	1-2 GAL.
AV	ARONIA PRUNIFOLIA VERNALIS (BROOK BERRY)	14	1-2 GAL.
SA	SPIRAEA ALBA (MEADOWSWEET) DILIFLORA	19	1-2 GAL.
IV	ILEX VERTICILLATA (WINTERBERRY HOLLY)	2	2-3 GAL.
PV	PANICUM VIRGATUM (SWITCHGRASS)	14	1-2 GAL.
JE	JUNCUS EFFUSUS (SOFT RUSH)	11	1-2 GAL.
PS	POLYSTICHUM SPP. (SHIELDFERN)	6	1-2 GAL.
SD	SALIX DISCOLOR (PUSSY WILLOW)	3	2-3 GAL.
CS	CAREX STRICTA (SEDGE)	16	1-2 GAL.

LEGEND

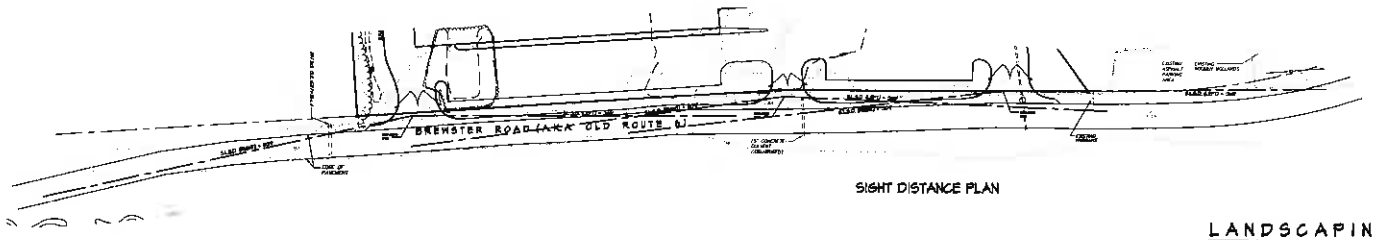
- 490 — EXISTING CONTOURS
- 360 — PROPOSED CONTOURS
- PROPOSED RETAINING WALL
- PROPOSED STORMWATER PIPE
- EXISTING VEGETATION
- GRASSED AREA (TO BE MOWED)

PLANTING NOTES:

1. ALL PLANT MATERIALS SHALL BE NURSERY GROWN, FULLY THRIVING AND IN A HEALTHY CONDITION FREE OF INSECTS, PEST, DISEASE OR DAMAGE AT THE TIME OF INSTALLATION.
2. ALL PLANTS SHALL BE BALLED AND BURLAPPED OR CONTAINER GROWN.
3. ALL LANDSCAPED AREAS SHALL BE MAINTAINED IN A HEALTHY GROWING CONDITION THROUGHOUT THE DURATION OF THE SITE PLAN SERVICE. PLANTS NOT SO MAINTAINED SHALL BE REPLACED WITH HEALTHY REPLACEMENT OF COMPARABLE SIZE, TYPE AND VARIETY AT THE DISCRETION OF THE TOWN ENVIRONMENTAL PROTECTION OVERSIGHT COMMITTEE.
4. TOPSOIL FOR DISTURBED AREAS WITH NOT LESS THAN FOUR (4) INCHES OF REPLACE TOPSOIL MATERIAL.
5. DISTURBED AREAS IN ACCORDANCE WITH THE SLOPE STABILIZATION METHOD OF CHAPTER 10.4.6.



LANDSCAPING PLAN



SIGHT DISTANCE PLAN

LINE OF SIGHT COMPUTATIONS

CALCULATION BASED ON "POLICY ON GEOMETRIC DESIGN OF HIGHWAYS & STREETS" AASHTO

SSD = 1.47*V*(J+Tc)

DESIGN SPEED V = 50 MPH
Tc=4(sec) Tc=5(sec) J=2
NORTHBOUND - LEVEL (LESS THAN 0.3% SLOPE)
SOUTHBOUND - LEVEL (LESS THAN 0.3% SLOPE)

S.L.S.D. (LEFT) = 1.47*50*(2+4) =365'
S.L.S.D. (RIGHT) = 1.47*50*(2+5) =509'

LANDSCAPING AND SIGHT DISTANCE PLAN

GRAPHIC SCALE
(IN FEET)
1 inch = 40 ft.

BUSINESS ENGINEERING
CIVIL ENGINEERS • LAND SURVEYORS
4 OLD ROUTE 6 BREWSTER, NEW YORK 10509
(845) 279-8461 FAX (845) 279-8461

REVISIONS

10	10/24/06	REVISED PER TOWN COMMENTS	
9	10/24/06	REVISED PER TOWN COMMENTS	
8	10/24/06	REVISED PER TOWN COMMENTS	
7	10/24/06	REVISED PER TOWN COMMENTS	
6	10/24/06	REVISED PER TOWN COMMENTS	
5	10/24/06	REVISED PER TOWN COMMENTS	
4	10/24/06	REVISED PER TOWN COMMENTS	
3	10/24/06	REVISED PER TOWN COMMENTS	
2	10/24/06	REVISED PER TOWN COMMENTS	
1	10/24/06	REVISED PER TOWN COMMENTS	

PROJECT: TOMPKINS RECYCLING FACILITY
CONSTRUCTION AND DEBRIS PROCESSING CENTER & RECYCLING
60 OLD ROUTE 6
TOWN OF CARMEL
PUTNAM COUNTY, NEW YORK
TAX MAP 16 - SEC. 1 BLOCK 1 LOT 3

DATE: 10/24/06
PROJECT MANAGER: BK
DRAWN BY: BK
CHECKED BY: PKL
SCALE: AS NOTED

DRAWING: LANDSCAPE AND SIGHT DISTANCE PLAN

PROJECT NUMBER: 6084
DRAWING NUMBER: C-150

SHEET 8 OF 15

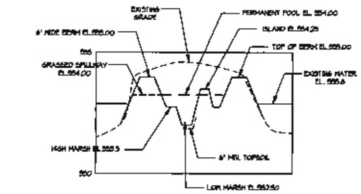
Wetland and Buffer Restoration Notes:

1. The wetland and stream corridor adjacent to Michael's Brook will be cleared of debris and fallen trees to restore flow.
2. The small peninsula area of historic debris in the northwest portion of the site will be cleared, cleaned out and re-graded as an extension of the wetland area, as shown on the plan. Shrubs and herbaceous material will be added as shown and the area over-seeded with ERNMX-137 Wetland Mix for Shaded OBL / FACW Areas or equivalent at 15 lbs / acre.
3. Any invasive plant species will be removed from wetland adjacent areas by hand without use of mechanical devices.
4. Existing culverts under Old Route 6 will be cleared and normal flow restored.

Plant List for Wetland Buffer Enhancement Areas

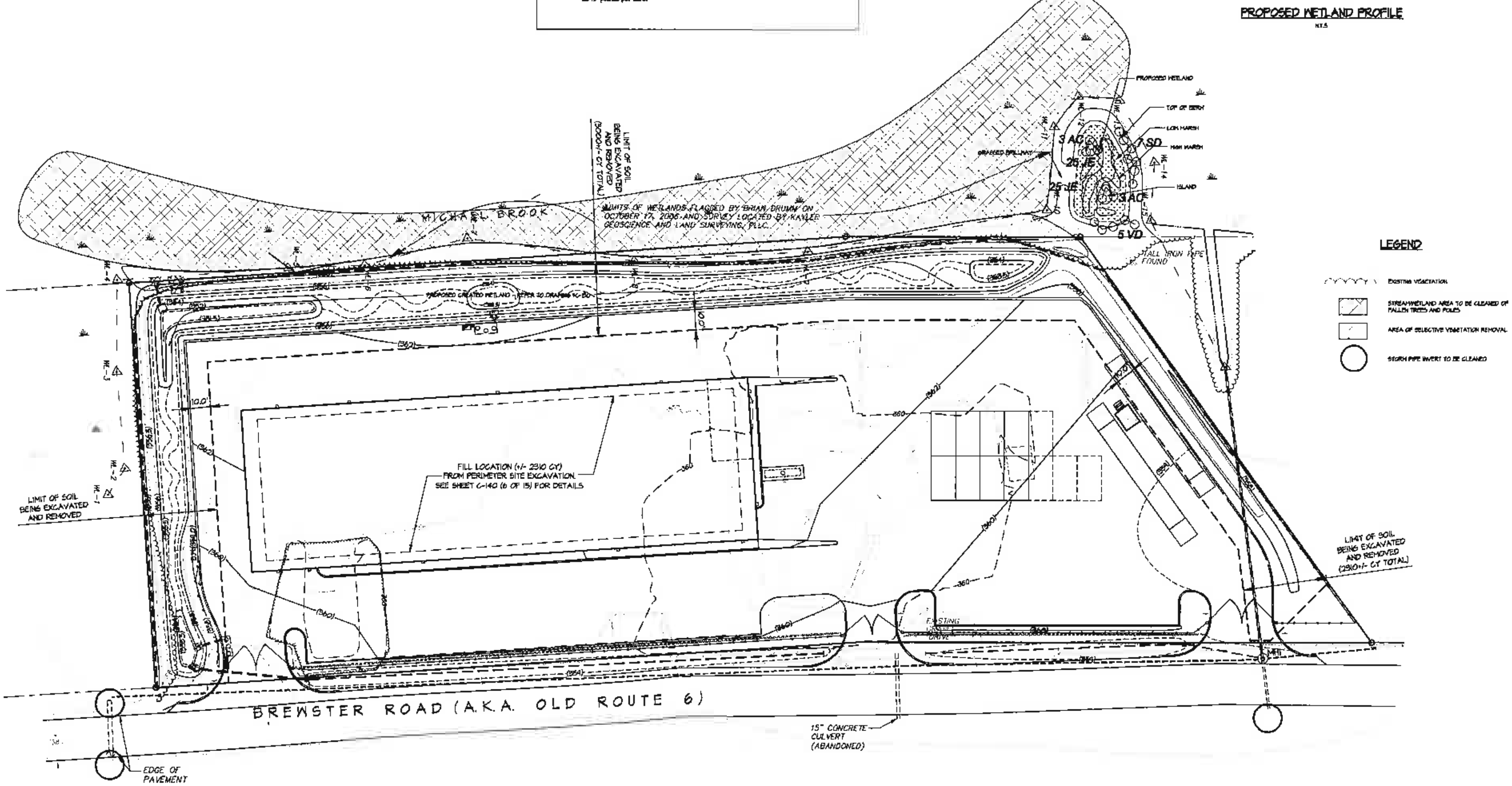
ID	Scientific Plant Name	Common Plant Name	Qty	Root	Size
Trees					
AC	Amelanchier canadensis	Shadblow	6	canned	5-gal.
Shrubs					
SD	Salix discolor	Pussy willow	7	canned	3-gal.
VD	Viburnum dentatum	Arrowwood	5	canned	3-gal.
Herbaceous species					
JE	Juncus effusus	Soft rush	50	2" plug	

Wetland buffer seed mix
Riparian Buffer Mix (ERNMX 178 or equivalent) seeded at 15 pounds per acre.



PROPOSED WETLAND PROFILE

N.T.S



WETLAND BUFFER ENHANCEMENT PLAN

& SOIL EXCAVATION AND FILL PLAN

GRAPHIC SCALE

(IN FEET)
1 inch = 30 ft.

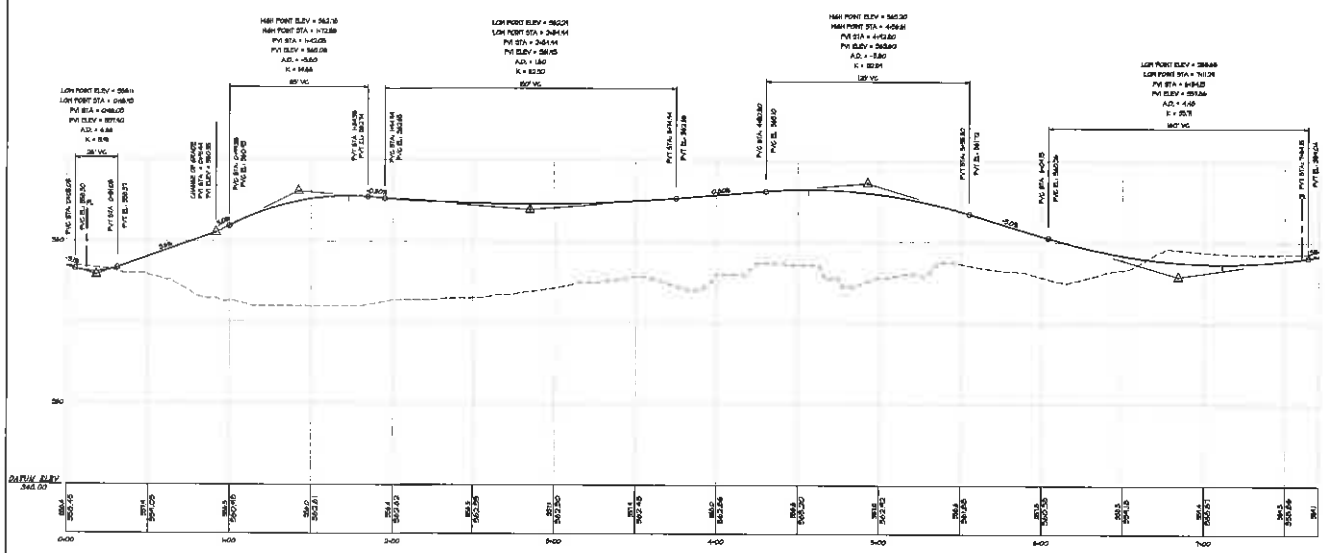
Putnam Engineering PLLC
Engineers - Architects
4 Old Route 6, Brewster, New York 10509

PROJECT
TOMPKINS RECYCLING FACILITY
CONSTRUCTION AND DEBRIS PROCESSING CENTER & RECYCLING
80 OLD ROUTE 6
TOWN of CARMEL
PUTNAM COUNTY, NEW YORK
TAX MAP No 55.11, BLOCK 1, LOT 15

DRAWING
WETLAND BUFFER ENHANCEMENT PLAN & SOIL EXCAVATION AND FILL PLAN

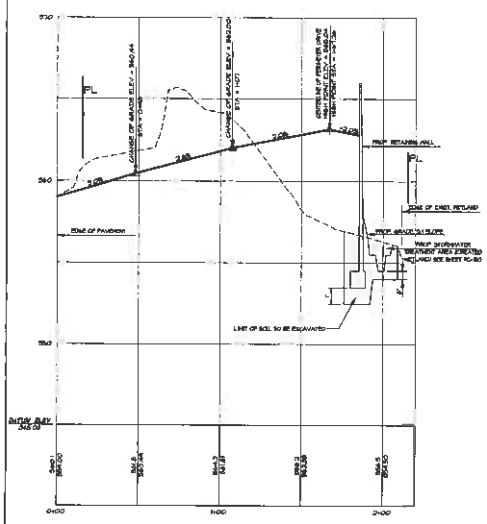
SCALE: AS NOTED

DRAWING NUMBER
C-160



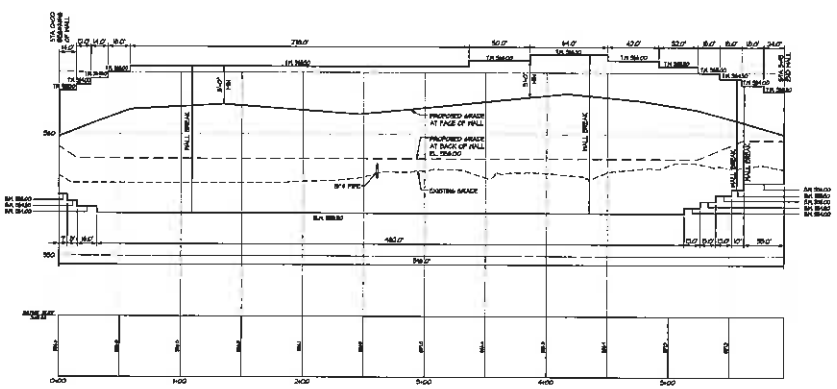
PERIMETER DRIVE PROFILE

SCALE: HORZ. 1"=50'
VERT. 1"=5'



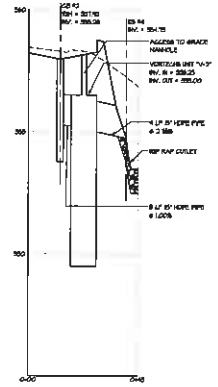
CENTER DRIVEWAY PROFILE

SCALE: HORZ. 1"=50'
VERT. 1"=5'



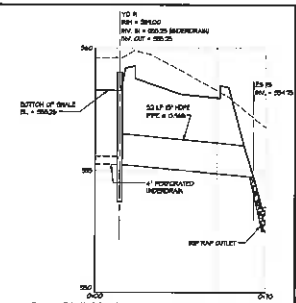
RETAINING WALL PROFILE - DEVELOPED

SCALE: HORZ. 1"=40'
VERT. 1"=4'



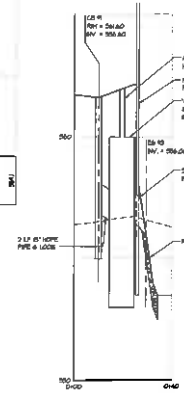
STORMWATER PROFILE CB2-ES4

SCALE: HORZ. 1"=30'
VERT. 1"=2'



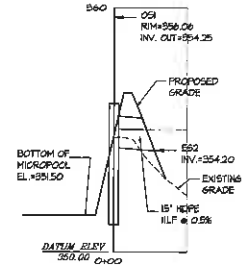
STORMWATER PROFILE YD1-ES5

SCALE: HORZ. 1"=30'
VERT. 1"=2'



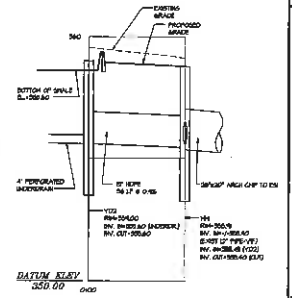
STORMWATER PROFILE CB1-ES3

SCALE: HORZ. 1"=30'
VERT. 1"=2'



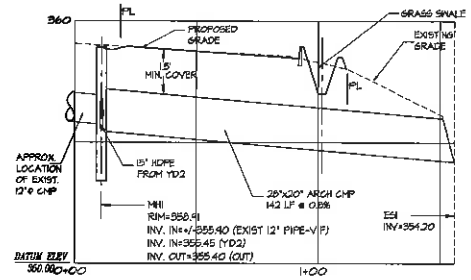
STORMWATER PROFILE OS1-ES2

SCALE: HORZ. 1"=30'
VERT. 1"=2'



STORMWATER PROFILE YD2-MH1

SCALE: HORZ. 1"=30'
VERT. 1"=2'



STORMWATER PROFILE MH1-ES1

SCALE: HORZ. 1"=30'
VERT. 1"=2'

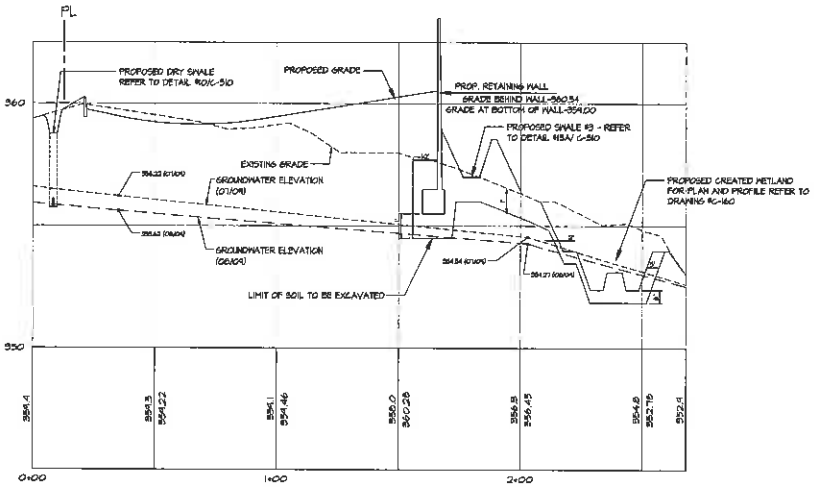
PARKER VILLENEUVE ASSOCIATES
ENGINEERS - ARCHITECTS
4 OLD POINTE & SPRINGFIELD, NEW YORK 12866
(518) 274-0784 FAX (518) 274-0784

TOMPKINS RECYCLING FACILITY
CONSTRUCTION AND DEBRIS PROCESSING CENTER & RECYCLING
60 OLD ROUTE 6
TOWN OF CORINTH
SAARATOGA COUNTY, NEW YORK
TAX MAP No. 59.1, BLOCK 1, LOT 5

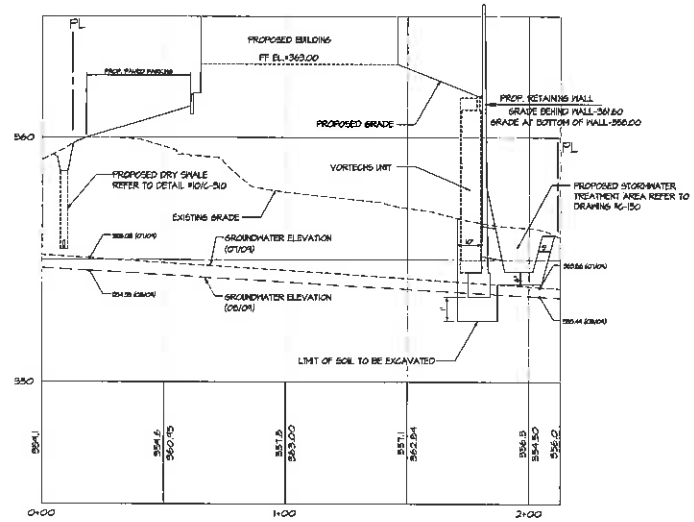
PROFILES

PROJECT NUMBER
C-210

SHEET 10 OF 16



A-A



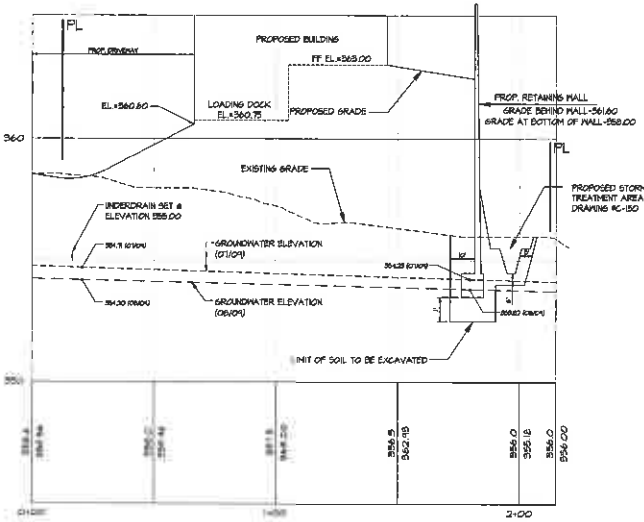
B-B

SITE CROSS SECTION PROFILES

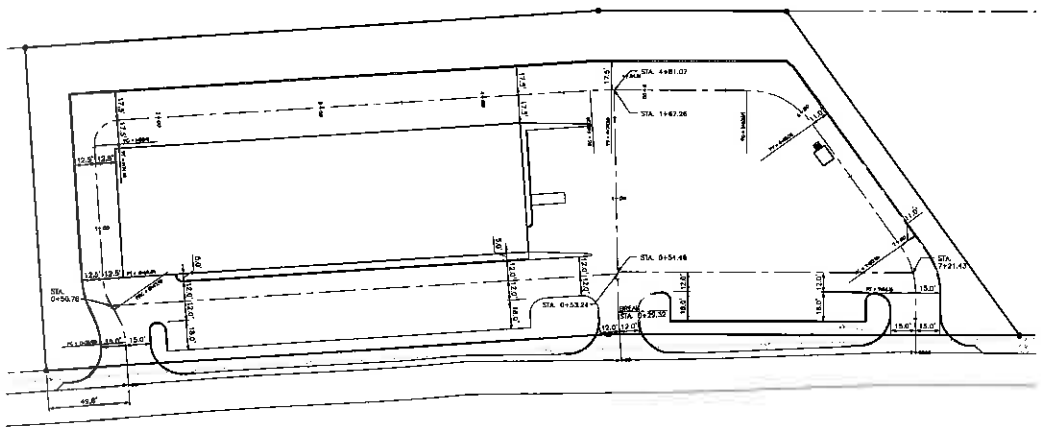
SCALE: HORZ. 1"=30'
VERT. 1"=2'

REFER TO GRADING PLAN, DRAWING #C-130 FOR LOCATIONS

NOTES:
GROUNDWATER ELEVATIONS ARE SHOWN BASED ON FIELD MEASUREMENTS TAKEN IN JULY AND AUGUST 2009 AT TEST HOLES (B-40) LOCATIONS. THE VALUES SHOWN ELEVATIONS ON THIS DRAWING IS A RESULT OF PREVIOUS INTERPOLATIONS SINCE THE SECTION LINES DO NOT MATCH UP WITH TEST HOLE LOCATIONS.



C-C



GEOMETRY LAYOUT PLAN

SCALE: 1"=50'

REVISIONS

NO.	DATE	DESCRIPTION	BY	DATE	DESCRIPTION
1	10/09	PROPOSED PARK & RIDE LOCATION	BK	10/09	PER PLANNING BOARD
2	10/09	RE-SUBMIT PARK & RIDE LOCATION	BK	10/09	PER PLANNING BOARD
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100	10/09	PER PLANNING BOARD	BK	10/09	PER PLANNING BOARD

PARKER CORPORANDELLI ENGINEERS - ARCHITECTS
4 OLD ROUTE 6, BREWSTER, NEW YORK 10509
(845) 279-4294 FAX (845) 279-0194

PROJECT: TOMPKINS RECYCLING FACILITY
CONSTRUCTION AND DEBRIS PROCESSING CENTER & RECYCLING
60 OLD ROUTE 6
TOWN of CARMEL
PUTNAM COUNTY, NEW YORK
TAX MAP No. 56.11, BLOCK 1, LOT 15

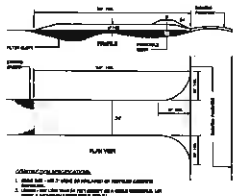
DATE: 10/12/09
PROJECT MANAGER: BK
DRAWN BY: BK
CHECKED BY: PKL
SCALE: AS NOTED

DRAWING: PROFILES & GEOMETRY LAYOUT PLAN

PROJECT NUMBER: 6384

DRAWING NUMBER: C-220

SHEET 11 OF 8

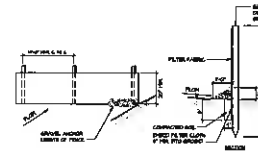


CONSTRUCTION SPECIFICATIONS

1. GRAVEL SIZE - USE 2" STONE OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - AS SHOWN ON PLANS BUT NOT LESS THAN 50 FEET (EXCEPT ON SINGLE RESIDENCE LOT WHERE ACCESS IS LIMITED TO LESS THAN 50 FEET).
3. THICKNESS - NOT LESS THAN 6 INCHES.
4. WIDTH - TWENTY FOOT (20') MINIMUM BUT SHALL NOT BE LESS THAN THE FULL WIDTH AT POINTS OF INGRESS AND EGRESS WHERE INGRESS AND EGRESS OCCUR ON A PUBLIC ROAD.
5. FILTER CLOTH - NOT TO BE PLACED OVER THE EXISTING GROUND.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD THE ENTRANCE SHALL BE PIPED ACROSS THE ENTRANCE.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANING OF ANY PAVEMENT OR SURFACE WHICH EXHIBITS THE PRESENCE OF MUD. ALL MUD SPILLED, DROPPED, OR WASHED ONTO PUBLIC ROADWAYS MUST BE REMOVED IMMEDIATELY.
8. DRAINAGE - PROVISIONS MUST BE MADE TO ACCOMMODATE STORM WATER FLOW. ALL WATER FLOWING FROM THE SITE SHALL BE DISCHARGED INTO A DRAINAGE SYSTEM OR ONTO A STABILIZED AREA.
9. SEDIMENT - ALL SEDIMENT MUST BE REMOVED FROM SURFACE WATER BEFORE IT LEAVES THE SITE.
10. MAINTENANCE - THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO THE ENTRANCE AND PERFORM ANY MAINTENANCE NECESSARY TO KEEP THE ENTRANCE IN GOOD CONDITION.

1 / C-310 STABILIZED CONSTRUCTION ENTRANCE DETAIL

N.T.S.



CONSTRUCTION NOTES FOR SILT FENCE:

1. WHEN TWO SECTIONS OF FILTER CLOTH JOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
2. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

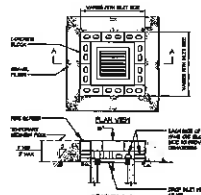
POSTS: SIZE: EITHER "T" OR "U" TYPE OR 2" HARDWOOD

FILTER CLOTH: FILTER X, MIRAFI 100X, STABILINCA, TAICH OR APPROVED EQUAL

PREFABRICATED UNIT: ACTIVAR, SAVANNAH OR APPROVED EQUAL

2 / C-310 SILT FENCE DETAIL

N.T.S.

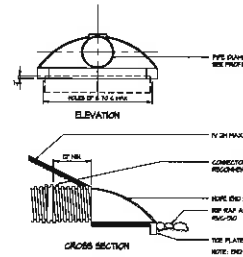


CONSTRUCTION SPECIFICATIONS

1. LAY CRS BLOCK AS SHOWN ON THE STRUCTURE OF THE SITE PLAN DRAWINGS. FOUNDATION SHALL BE 3 INCHES HIGHER BELOW THE OF INLET AND BLOCKING SHALL BE PLACED AGAINST INLET THE REPAIR.
2. BACKFILL ALONG AN 12 INCH BEND WITH SHALL BE PLACED OVER BLOCK OPENING TO SUPPORT BARRIER.
3. USE CLEAN STONE OR GRAVEL, 12 MM SIZE SURROUNDED PLACED 3 INCHES BELOW THE TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER.
4. FILTER CLOTH SHALL BE FASTENED AND THE TOP SEAMLESS TO ITS OPENING. OVERLAPPING THE BARRIER AND ALSO ALLOWED TO 12 INCHES DEPTH. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
5. THE REPORT MAY SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE CONSTRUCTED DRAINAGE AREA HAS BEEN PROPERLY STABILIZED

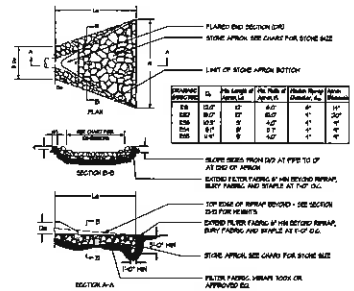
5 / C-310 STONE & BLOCK DROP INLET PROTECTION DETAIL

N.T.S.



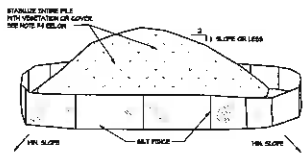
4 / C-310 END SECTION DETAIL

N.T.S.



3 / C-310 RIP-RAP OUTLET PROTECTION DTL.

N.T.S.

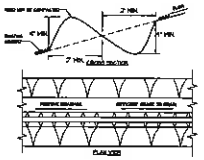


INSTALLATION NOTES

1. AREA SHOWN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 1:3
3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH SILT FENCING.
4. SPRING/SUMMER/FALL SEEDING: SEED WITH PERENNIAL RYE GRASS @ 40 LBS/AC. STABILIZATION FROM NOVEMBER 1 THROUGH MARCH 31 SHALL BE BY A ROLLED EROSION CONTROL PRODUCT OR MAY BE HYDROSEEDED WITH WINTER RYE WITH A HEAVY MULCH LAYER. REFER TO STOCKPILE IN SPRING AS NOTED ABOVE.
5. SEE SILT FENCE DETAIL FOR SILT FENCE INSTALLATION SPECIFICATIONS.

6 / C-310 TOPSOIL STOCKPILE DETAIL

N.T.S.



CONSTRUCTION SPECIFICATIONS

1. ALL PERIMETER DIKE/SWALE SHALL HAVE UNINTERRUPTED FLOWING GRADE TO AN OUTLET.
2. DIVERSION SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY.
3. COMPACTED EARTH FILL OR UNCONFINED AREA SHALL EXHIBIT NO AN UNCONFINED AREA AS NON-EROSION VELOCITY.
4. THE SWALE SHALL BE EXCAVATED OR FORMED TO LINE GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE EXPECTED FLOWS IN THE DIVERSION.
5. STABILIZATION OF THE AREA DISTURBED BY THE DIKE AND SWALE SHALL BE DONE IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR TEMPORARY SEEDING AND MULCHING, AND SHALL BE DONE WITHIN 24 DAYS.
6. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

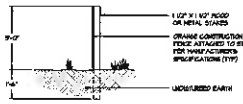
MAX. DRAINAGE AREA LIMIT: 3 ACRES

7 / C-310 PERIMETER DIKE/SWALE DTL

N.T.S.

NOTES:

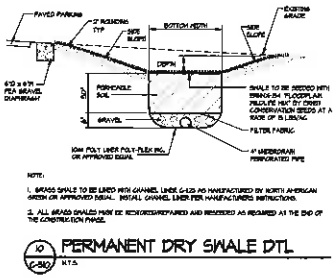
1. SPACING MAY VARY AS PER MANUFACTURER'S RECOMMENDATIONS. MAXIMUM SPACING IS 8'-0".
2. JOIN CONSTRUCTION FENCE SECTIONS BY OVERLAPPING END STAKES.
3. INSPECT AND REPAIR PERIODICALLY TO MAINTAIN THE INTEGRITY OF THE CONSTRUCTION AREA.



9 / C-310 CONSTRUCTION FENCE DETAIL

N.T.S.

SWALE #	TOP WIDTH (ft)	DEPTH (ft)	BOTTOM WIDTH (ft)	SIDE SLOPE	SWALE SLOPE	SWALE LENGTH (ft)
1	5.0	0.78	2.00	2:1	0.88	180
2	8.3	1.0	4.00	3:1	0.35	240

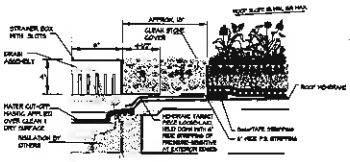


NOTE:

1. GRASS SWALE TO BE LINED WITH CHANNEL LINER G-125 AS MANUFACTURED BY NORTH AMERICAN GREEN OR APPROVED EQUAL. INSTALL CHANNEL LINER PER MANUFACTURERS INSTRUCTIONS.
2. ALL GRASS SWALES MUST BE RESTORED/REPAIRED AND RESEEDED AS REQUIRED AT THE END OF THE CONSTRUCTION PHASE.

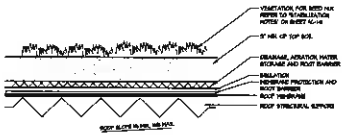
10 / C-310 PERMANENT DRY SWALE DTL

N.T.S.



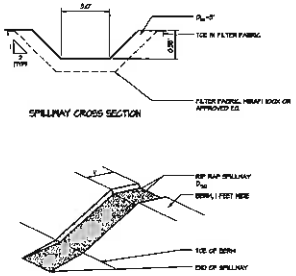
11 / C-310 ROOF DRAIN DETAIL

N.T.S.



12 / C-310 GREEN ROOF DETAIL

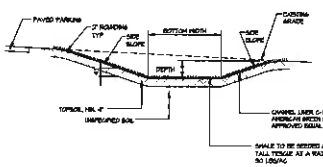
N.T.S.



13 / C-310 RIP RAP SPILLWAY DETAILS

N.T.S.

SWALE #	TOP WIDTH (ft)	DEPTH (ft)	BOTTOM WIDTH (ft)	SIDE SLOPE	SWALE SLOPE	SWALE LENGTH (ft)
3	12.0	1.0	4.00	3:1	0.88	240

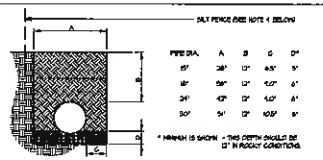


NOTE:

ALL GRASS SWALES MUST BE RESTORED/REPAIRED AND RESEEDED AS REQUIRED AT THE END OF THE CONSTRUCTION PHASE.

13A / C-310 PERMANENT GRASS SWALE DTL

N.T.S.



PIPE DIA.	A	B	C	D*
15"	28"	12"	6.5"	9"
18"	59"	12"	12.0"	6"
24"	42"	12"	4.0"	6"
30"	54"	12"	10.5"	9"

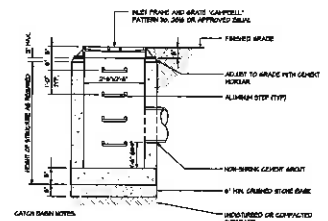
* MINIMUM IS SHOWN - THIS DEPTH SHOULD BE 12" IN ROCKY CONDITIONS.

NOTES:

1. BACKFILL UNDER AND AROUND THE PIPE SHALL BE PLUS GRAVEL OR SAND UP TO A POINT 12" ABOVE THE PIPE. PLUS GRAVEL, SAND OR NATIVE PERMEABLE MATERIAL IS ACCEPTABLE FROM WALL FORM TO THE SURFACE.
2. A COMPACTION LEVEL UP TO 95% MUST BE ACHIEVED PRIOR TO THE BACKFILL IS REQUIRED AND SHALL BE ACHIEVED USING A MECHANICAL TAMPER.
3. NO BRICKS OF PIPE SHALL BE BACKFILLED UNTIL INSPECTED AND APPROVED BY THE MUNICIPAL INSPECTOR.
4. INSTALL SILT FENCE AT DOWN GRADIENT SIDE OF ALL TRENCHES AS CROSS SLOPES AND AT 50 FOOT INTERVALS FROM TRENCHES IN PERPENDICULAR TO SLOPES. SEE DETAIL 3 SHEET FOR SILT FENCE DETAIL.
5. MATERIAL IS AS PER ASTM D-3350 OR EQUAL SHOULD BE CORRUGATED PLASTIC PIPE.

14 / C-310 STORM DRAIN TRENCH DETAIL

N.T.S.

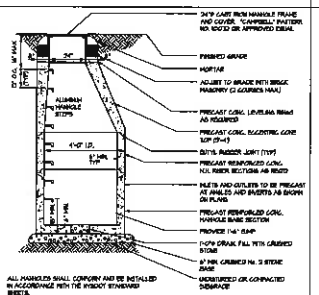


CATCH BASIN NOTES:

1. WALL THICKNESS, 6" POURED CONCRETE OR PRECAST CONC. SECTIONS, CLASS A CONCRETE.
2. ALL CATCH BASINS SHALL CONFORM AND BE INSTALLED IN ACCORDANCE WITH THE NYSDOT STANDARD SHEETS.
3. POURED OR PRECAST WALLS SHALL BE REINFORCED WITH [illegible]; BOTTOM SHALL BE SIMILAR.

14A / C-310 CATCH BASIN DETAIL

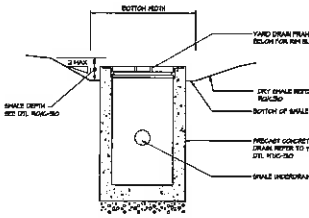
N.T.S.



ALL MANHOLES SHALL CONFORM AND BE INSTALLED IN ACCORDANCE WITH THE NYSDOT STANDARD SHEETS.

15 / C-310 DRAINAGE MANHOLE DETAIL

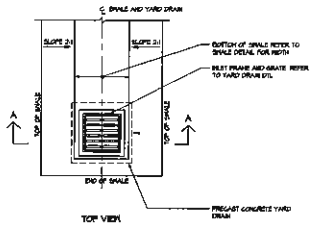
N.T.S.



SECTION A-A

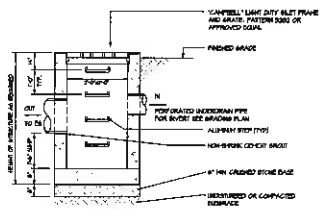
16 / C-310 YARD DRAIN IN SWALE DETAIL

N.T.S.



TOP VIEW

SWALE #	BOTTOM OF SWALE (ft) GRADE	BOTTOM OF SWALE (ft)	TOP OF SWALE (ft)	SWALE GRADE (%)	TOP OF SWALE (ft)
1	559.40	0.75	559.00	559.84	559.00
2	559.20	1.0	559.00	559.62	559.25



YARD DRAIN NOTES:

1. WALL THICKNESS, 6" POURED CONCRETE OR PRECAST CONC. SECTIONS, CLASS A CONCRETE.
2. ALL YARD DRAINS SHALL CONFORM AND BE INSTALLED IN ACCORDANCE WITH THE NYSDOT STANDARD SHEETS.
3. POURED OR PRECAST WALLS SHALL BE REINFORCED WITH [illegible]; BOTTOM AND TOP SHALL BE SIMILAR.

17 / C-310 YARD DRAIN DETAIL

N.T.S.

VIGLIETTI & BEGLEY
ENGINEERS - ARCHITECTS
4 OLD ROUTE 6, BREWSTER, NEW YORK 10509
(845) 279-4234 FAX (845) 279-4364

REVISIONS

NO.	DATE	DESCRIPTION
[illegible]	[illegible]	[illegible]

PROJECT

TOMPKINS RECYCLING FACILITY
CONSTRUCTION AND DEMOLITION PROCESSING CENTER & RECYCLING
40 OLD ROUTE 6
TOWN OF CARMEL,
PUTNAM COUNTY, NEW YORK
TAX MAP 64.18-1-1, BLOCK 1, LOT 15

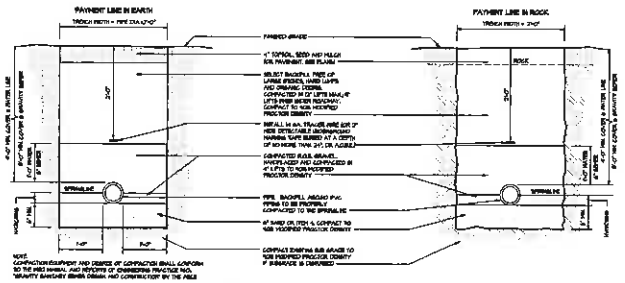
DRAWING

DETAILS

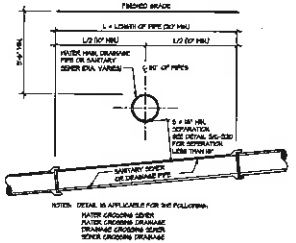
PROJECT NUMBER: 4289

DRAWING NUMBER: C-310

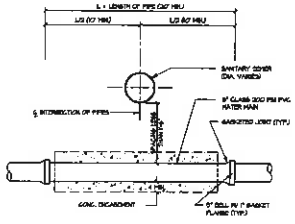
SHEET 8 OF 8



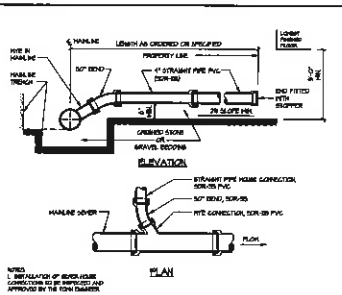
1 C-320 UTILITY TRENCH DETAILS



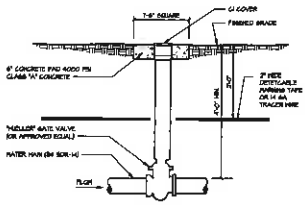
2 C-320 UTILITY PIPE CROSSING DETAIL
SEPARATION GREATER THAN OR EQUAL TO 18"



3 C-320 UTILITY CROSSING DETAIL
SEPARATION LESS THAN 18"

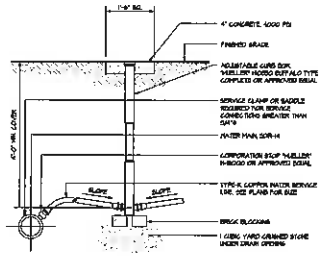


4 C-320 SEWER SERVICE CONNECTION DTL.

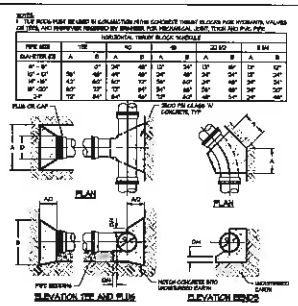


NOTE:
INSTALL 3" WIDE DETECTABLE UNDERGROUND WARNING TAPE BURIED AT A DEPTH OF NO MORE THAN 24", OR AS REQUIRED, OR INSTALL 14 GAUGE TRACER WIRE & 2'-0" DEPTH ALONG WATER MAIN AND PLACE UP IN THE GATE VALVE BOX TO FACILITATE CONNECTION

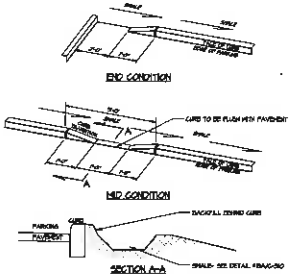
5 C-320 WATER VALVE DETAIL



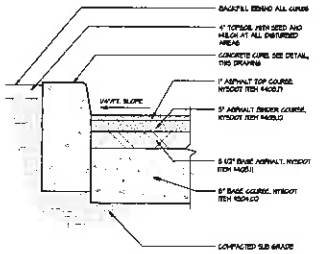
6 C-320 WATER SERVICE CONNECTION DETAIL



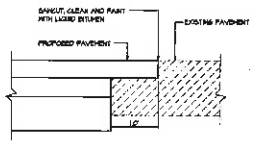
7 C-320 HORIZONTAL THRUST BLOCK DETAILS



8 C-320 CURB BREAK DETAIL

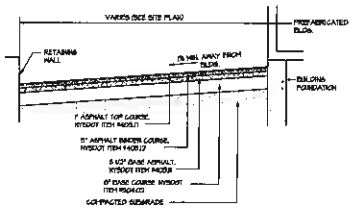


9 C-320 PAVEMENT DETAIL

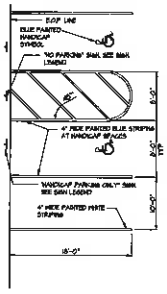


MINIMUM PAVEMENT THICKNESS TO BE SAME AS PROPOSED OVERLAYS OR MATCH THICKNESS OF EXISTING PAVEMENT, WHICH EVER IS GREATER.

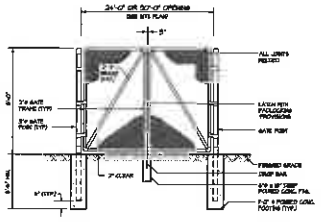
10 C-320 PAVEMENT MATCH TREATMENT DETAIL



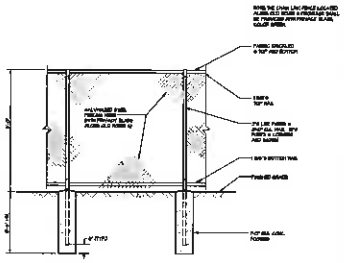
11 C-320 YARD/ DRIVEWAY DETAIL



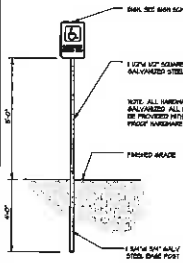
12 C-320 HANDICAPPED PARKING DETAIL



13 C-320 CHAIN LINK GATE DETAIL



14 C-320 CHAIN LINK FENCE DETAIL

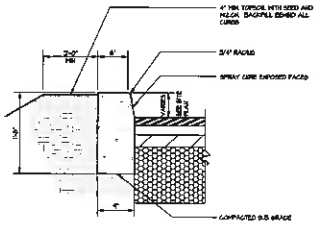


15 C-320 TRAFFIC SIGN DETAIL

LOC. NO.	TEXT NO.	SIGN	N.Y.S.D.O.T. NOTE.D. 1	SIZE	DESCRIPTION
-	1	STOP	R1-1	30"x30"	WHITE LETTERS RED BACKGROUND
-	2	REVERSE PARKING	R7-8	12"x18"	GREEN LETTERS BLUE SYMBOL WHITE BACKGROUND
-	3	ONE WAY DRIVE	R5-15	18"x24"	WHITE LETTERS RED BACKGROUND.
-	4	ONE WAY ONE WAY	R6-2	12"x24"	BLACK LETTERS BLACK SYMBOL WHITE BACKGROUND.
-	5	ONLY	R5-3	12"x18"	BLACK SYMBOL BLACK LETTERS WHITE BACKGROUND.
-	6	NO PARKING EXCEPT HERE	R7-1	12"x18"	RED LETTERS RED SYMBOL WHITE BACKGROUND

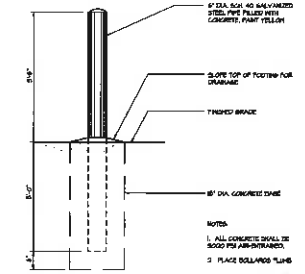
LOC. NO.	TEXT NO.	SIGN	N.Y.S.D.O.T. NOTE.D. 1	SIZE	DESCRIPTION
-	7	CAUTION	-	18"x30"	RED LETTERS WHITE BACKGROUND
-	8	PERMIT PARKING ON SUNDAY	-	12"x18"	BLACK LETTERS WHITE BACKGROUND.
-	9	TRUCK NO PARKING ONLY	-	18"x18"	BLACK LETTERS WHITE BACKGROUND.
-	10	CAR NO PARKING ONLY	-	18"x18"	BLACK LETTERS WHITE BACKGROUND.
-	11	SIGN TO BE PROVIDED BY OWNER	-	24"x24"	BLACK LETTERS BLACK SYMBOLS WHITE BACKGROUND

16 C-320 CONCRETE CURB DETAIL
SCALE: 3/4"=1'-0"

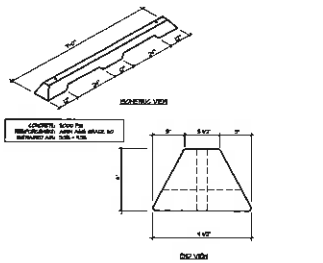


ALL CONCRETE SHALL BE 3000 PSI AIR-ENTRAINED WITH EXPANSION JOINTS EVERY 12'-0"

17 C-320 BOLLARD DETAIL



18 C-320 PRECAST CONC. WHEEL STOP DETAIL



PUTNAM ARCHITECTS
PLANNERS · ARCHITECTS
4 OLD ROUTE 6, BREWSTER, NEW YORK 10509
(845) 279-6264 FAX (845) 279-6364

SEQ	DATE	DESCRIPTION	BY
1	11/1/05	PRELIMINARY SUBMISSION	
2	11/15/05	PRELIMINARY SUBMISSION	
3	12/1/05	PRELIMINARY SUBMISSION	
4	12/15/05	PRELIMINARY SUBMISSION	
5	1/5/06	PRELIMINARY SUBMISSION	
6	1/19/06	PRELIMINARY SUBMISSION	
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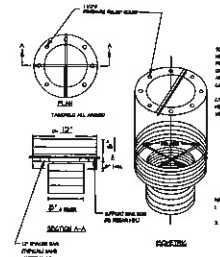
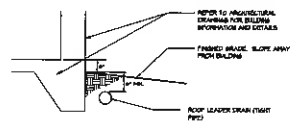


1 C-350 TEMPORARY TRASH RACK DETAIL
N.T.S.



2 C-350 TYPICAL DRAIN DETAIL
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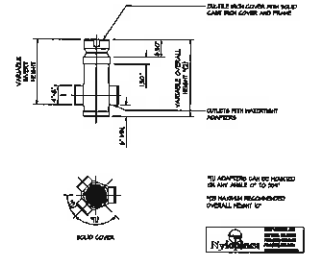

3 C-350 DRAIN BASIN W/SOLID COVER DTL
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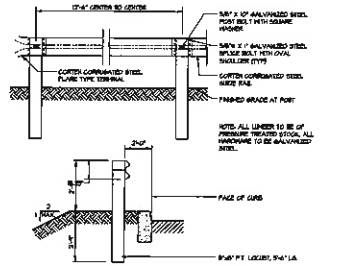
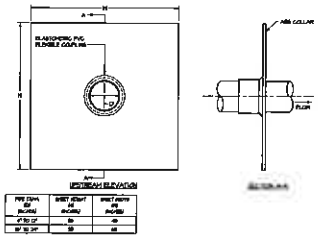
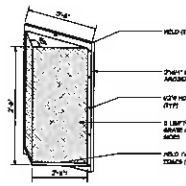


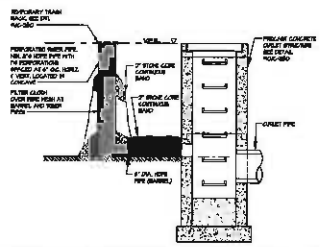
4 C-350 BEAM TYPE GUIDE RAIL DETAIL
N.T.S.



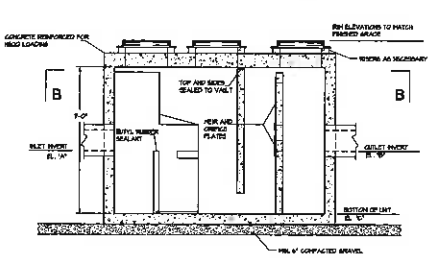
5 C-350 ANTI-SEEPAGE COLLAR DETAIL
N.T.S.

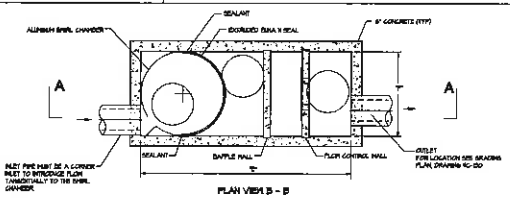


6 C-350 TRASH RACK PROTECTION DETAIL
N.T.S.

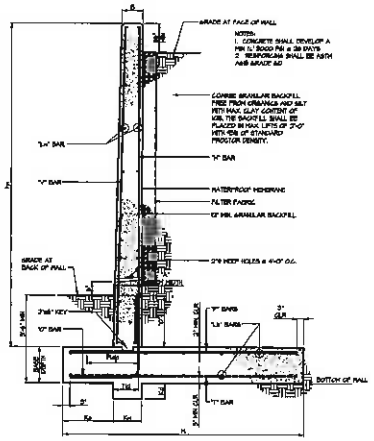


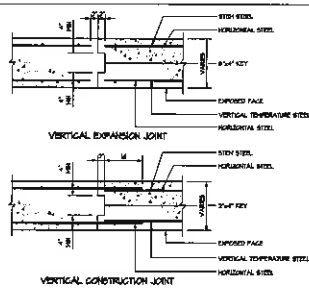
7 C-350 TEMPORARY OUTLET STRUCTURE DETAIL
N.T.S.

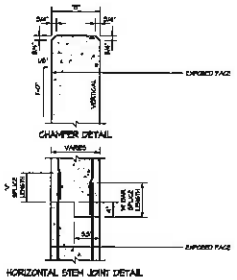


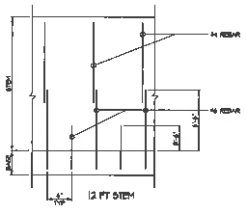


8 C-350 VORTECHS® UNIT DETAIL
N.T.S.





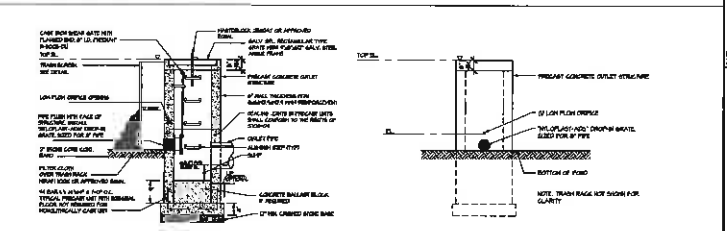




RETAINING WALL REINFORCEMENT

MAX. HEIGHT ABOVE BASE (Ht)	WIDTH OF WALL "WW"	HEEL	BASE "W"	TOE	BASE DEPTH	KEY			STEM REINFORCEMENT			BASE REINFORCEMENT							NOTE: STEM SPLICE OF W.S. W/ DOWEL		NOTE: STEM SPLICE
						Ks	WIDTH Bw	DEPTH Dw	M BARS	DEVELOPMENT LENGTH - Ldb	M BARS - LONG. TEMPERATURE	V BARS - VERTICAL PIVOT REINFORCEMENT	"B" BARS - DOWELS BELOW	"B" BARS BELOW	"B" BARS BELOW	PBW	"T" BARS BELOW	"TBW	LB BARS BELOW HEEL BARS	LBW	LTW
6'-0"	4' H'	1'-7"	3'-6"	1'-2"	4"	1'-2"	4"	4"	12" BARS @8in	—	4 No. 4	11 @ 12"	4 No. 4	11 @ 12"	4 No. 4	1-#4	4 No. 4	1-#4	11 @ 12"	—	1-#4
10'-0"	10' / 6'	3'-10"	5'-6"	1'-10"	10"	1'-10"	10"	12"	14 @ 12"	—	4 No. 4	11 @ 12"	14 @ 12"	11 @ 12"	14 @ 12"	1-#4	14 @ 12"	1-#4	11 @ 12"	1-#4	6-#4

11 C-350 TYPICAL RETAINING WALL DETAIL
N.T.S.



OUTLET STRUCTURE SCHEDULE

HOLE SPECIFICATION	MIN. EL.	BASE		MAX. EL.	RANGE IN	HOLE SIZE IN	VARIABLE ORIFICE		FIXED ORIFICE		MIN. OF RANGE BELOW
		DIAMETER	HEIGHT				DIA. (EST)	SIZE	DIA. (EST)	SIZE	
#2 3	[illegible]	1'-0" x 1'-0"	1'-0" x 1'-0"	[illegible]	[illegible]	10	[illegible]	0"	—	—	2"	[illegible]

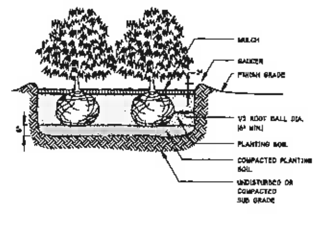
10 C-350 PERMANENT OUTLET STRUCTURE DETAIL

PARKER ENGINEERING PLLC
ENGINEERS - ARCHITECTS
4 OLD ROUTE 6, BREWSTER, NEW YORK 10509
(845) 279-4294 FAX (845) 279-4294

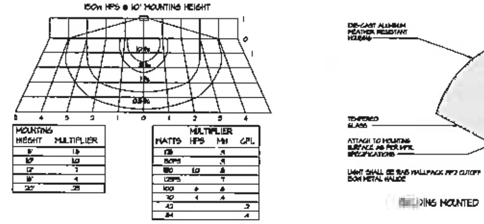
TOMPKINS RECYCLING FACILITY
CONSTRUCTION AND DEMOLITION PROCESSING CENTER & RECYCLING
60 OLD ROUTE 6
PUTNAM VALLEY, NEW YORK
TAX MAP No. 55.11, BLOCK 1, LOT 8

DETAILS

DRAWING NUMBER
C-330



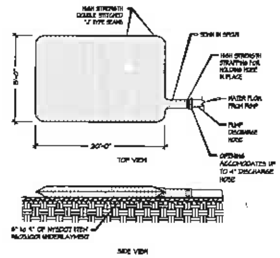
1 / C-340 **SHRUB PLANTING DETAIL**
N.T.S.



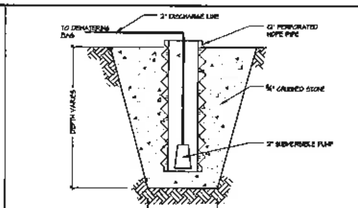
MOUNTING HEIGHT	MULTIPLIER
8'	1.5
10'	1.0
12'	.7
16'	.4
20'	.25

WATTS	MULTIPLIER HPS	MH	CFL
175		.5	
50PS		.5	
150	1.0	.8	
125PS		.7	
100	.6	.6	
70	.4	.4	
42			.3
84			.4

2 / C-340 **SITE LIGHTING DETAILS**
N.T.S.



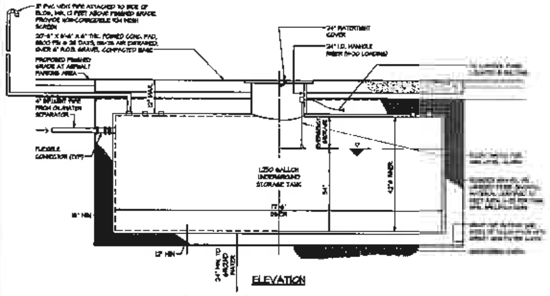
3 / C-340 **DEWATERING BAG DETAIL**
N.T.S.



NOTES:

1. CONTRACTOR SHALL INSTALL 2" SUBMERSIBLE ELECTRIC PUMPS IN EACH WELL POINT AND PROVIDE HOSE AS REQUIRED TO DISCHARGE ALL EXTRACTED GROUNDWATER INTO DEWATERING BAG SILT CONTROL SYSTEM.
2. THE CONTRACTOR SHALL PROVIDE A CONTINUOUS ELECTRIC SUPPLY TO MAINTAIN UNINTERRUPTED DEWATERING THROUGHOUT WALL AND WETLAND CONSTRUCTION.
3. CONTRACTOR SHALL REPLACE DEWATERING BAG AS REQUIRED TO MAINTAIN TURBID FREE DISCHARGE THROUGHOUT DEWATERING OPERATIONS. CONTRACTOR SHALL REMOVE FULL SILT BAGS AND DISPOSE THEM AT DEDICATED LOCATION.
4. UPON COMPLETION OF WALL CONSTRUCTION AND BACKFILL, THE CONTRACTOR SHALL REMOVE THE SUBMERSIBLE PUMPS AND ABANDON WELL POINTS IN PLACE BY CUTTING OFF ALL PIPES A MIN. 2' BELOW FINISHED GRADE AND BACKFILLING.

4 / C-340 **WELL POINT DETAIL**
N.T.S.



NOTES:

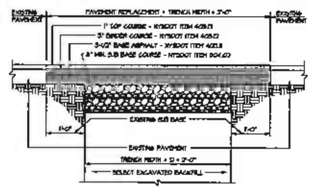
1. INSTALLATION TO CONFORM TO MANUFACTURERS AND NYSDEC REQUIREMENTS.
2. 1,250 GALLON 42" DIA. DOUBLE WALL STEEL TANK MANUFACTURED BY FREE SURFACE CO. INC., OR EQUAL. TANK TO BE DESIGNED FOR AASHTO H-20 LOADING.
3. HIGH WATER SWITCH MAY BE HUNG FROM A STAINLESS STEEL BRACKET ATTACHED TO THE RISER PIPE.
4. THE CONTROL WIRING SHALL BE MADE DIRECTLY TO THE CONTROL PANEL TO BE LOCATED INSIDE BUILDING WITH AUDIBLE ALARM AND FLASHING LIGHT.
5. SACRIFICIAL ANODES TO BE WELDED TO TANK FOR CATHODIC PROTECTION OF PRIMARY TANK INTERIOR AND THE EXTERNAL SURFACE OF THE OUTER SHELL.
6. THE INTERSTITIAL SPACE SHALL BE ELECTRONICALLY MONITORED FOR TIGHTNESS. THE WIRING SHALL BE MADE DIRECTLY TO THE CONTROL PANEL WITH AUDIBLE ALARM AND FLASHING LIGHT.

OPERATING ELEVATIONS

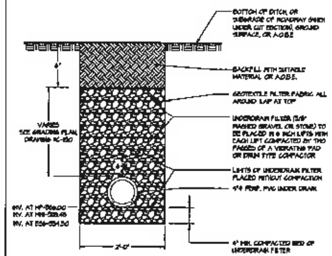
ELEVATION OF FLOAT BASED ON DEPTH OF WATER IN TANK

FINISHED GRADE @ RISER	562.55
TOP OF TANK	561.30
HIGH LEVEL ALARM	560.66
BOTTOM OF TANK	557.80
GROUNDWATER	555.00

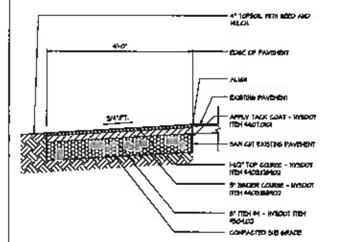
5 / C-340 **1,250 GALLON LEACHATE STORAGE TANK DETAIL**
N.T.S.



6 / C-340 **PAVEMENT RESTORATION DETAIL at OLD ROUTE 6**
N.T.S.



7 / C-340 **UNDERDRAIN DETAIL**
N.T.S.



8 / C-340 **SHOULDER WIDENING DETAIL**
N.T.S.

PUTNAM ENGINEERING PLLC
ENGINEERS - ARCHITECTS
4 OLD ROUTE 6, BREWSTER, NEW YORK 10509
(845) 279-9724 FAX (845) 279-9184

"PURSUANT TO NEW YORK STATE EDUCATION LAW, ARTICLE 145, SECTION 7209 SUBDIVISION 2, "IT IS A VIOLATION OF THIS LAW FOR ANY PERSON UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ENGINEER IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION."

REVISIONS

NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION
[illegible]	[illegible]	ADDED ZBA APPROVAL	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	REVISED PER P.B. COMMENTS	[illegible]	[illegible]	PB. ECB SUBMISSION
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	CHANGES PER NYSDEC
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	REVISED PER NYSDEC
[illegible]	[illegible]	NYCDEP & NYSDEC SUBMISSION	[illegible]	[illegible]	DEC SUBMISSION
[illegible]	[illegible]	CHANGES PER NYSDEC	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	CHANGES PER NYSDEC	[illegible]	[illegible]	[illegible]
10	[illegible]	P.B. SUBMISSION	[illegible]	[illegible]	REVISION PER FEMA MAP
11	[illegible]	[illegible]	[illegible]	[illegible]	REVISION FOR PERMIT RENEWAL
12	[illegible]	DEC DEC SUBMISSION	22	[illegible]	REVISION TO DETAIL SHEET

PROJECT
TOMPKINS RECYCLING FACILITY
CONSTRUCTION AND DEBRIS PROCESSING CENTER & RECYCLING
60 OLD ROUTE 6
TOWN of CARMEL
PUTNAM COUNTY, NEW YORK
TAX MAP No 55.11, BLOCK 1, LOT 8

DATE	10/30/06
PROJECT MANAGER	BK
DRAWN BY	RCA
CHECKED BY	PHL
SCALE	AS NOTED

DRAWING
DETAILS

PROJECT NUMBER 10286

DRAWING NUMBER
C-340

SHEET 8 OF 8

CONTINGENCY PLAN

FOR A

RECYCLABLES HANDLING AND RECOVERY, AND CONSTRUCTION AND DEMOLITION DEBRIS PROCESSING FACILITY

AS DEFINED BY 6 NYCRR PARTS 360-1, 360-11, 360-12, & 360-16

PREPARED FOR

TOMPKINS RECYCLING FACILITY INC
60 OLD ROUTE 6
CARMEL, NY 10512

PREPARED BY

PUTNAM ENGINEERING, PLLC.
4 Old Route 6
Brewster, NY 10509
(845) 279 - 6789
Facsimile (845) 279 – 6769

December 10, 2008
(Revised May 12, 2010)
(Revised November 15, 2010)
(Revised April 10, 2012)

STATE OF NEW YORK
ESHWAR KOSURI
LICENSED PROFESSIONAL ENGINEER

June 15, 2012

Eshwar Kosuri, P. E., BCEE

Date

TABLE OF CONTENTS

TABLE OF CONTENTS ____ *i*

SECTION 1.0 INTRODUCTION ____ *3*

1.1 PURPOSE ____ **3**

1.2 OPERATOR RESPONSIBILITY ____ **3**

SECTION 2.0 CONTROL OF RELEASES TO THE ENVIRONMENT ____ *4*

2.1 GENERAL ____ **4**

2.2 NOTIFICATION ____ **4**

2.3 SPILL CONTROL ____ **4**

2.3.1 SPILL RESPONSE KIT ____ 4

2.3.2 SAFETY AND EMERGENCY EQUIPMENT ____ 5

2.3.3 SPILL CLEANUP ____ 5

2.3.4 SPILL RESPONSE CONTRACTOR ____ 6

2.4 NOISE CONTROL ____ **6**

2.5 DUST CONTROL ____ **6**

2.5.1 RECYCLABLES HANDLING AND RECOVERY AND CONSTRUCTION AND DEMOLITION DEBRIS PROCESSING OPERATIONS ____ 6

2.6 ODOR CONTROL ____ **7**

2.6.1 RECYCLABLES HANDLING AND RECOVERY AND CONSTRUCTION AND DEMOLITION DEBRIS PROCESSING OPERATIONS ____ 7

2.7 VECTOR CONTROL ____ **7**

2.7.1 RECYCLABLES HANDLING AND RECOVERY AND CONSTRUCTION AND DEMOLITION DEBRIS PROCESSING FACILITY OPERATIONS ____ 7

2.8 CONFINEMENT OF SOLID WASTE ____ **7**

2.9 CONTROL OF LEACHATE ____ **7**

2.10 UNUSUAL TRAFFIC CONITIONS ____ **8**

2.11 UNAUTHORIZED WASTE CONTROL ____ **8**

SECTION 3.0 EQUIPMENT BREAKDOWN ____ *9*

3.1 GENERAL ____ **9**

3.2 EQUIPMENT BREAKDOWN ____ **9**

3.3 FACILITY SHUTDOWN ____ **9**

3.3.1 RECYCLABLES HANDLING AND RECOVERY AND CONSTRUCTION AND DEMOLITION DEBRIS PROCESSING FACILITY OPERATIONS ____ 9

TABLE OF CONTENTS - CONTINUED

SECTION 4.0 FIRES AND EXPLOSION ____ *10*

4.1 FIRE PROTECTION ____ **10**

4.2 FACILITY'S EMERGENCY RESPONSE ____ **10**

4.2.1 FIRE ____ 10

4.2.2 EXPLOSION ____ 10

4.2.3 PERSONAL INJURY ____ 10

4.3 LOCAL RESPONSE AGENCY ARRANGEMENTS ____ **11**

4.3.1 BREWSTER FIRE DEPARTMENT (BFD) ____ 11

4.3.2 TOWN OF CARMEL POLICE DEPARTMENT ____ 11

4.4 PLAN COORDINATION WITH LOCAL RESPONSE AGENCIES ____ **11**

4.5 SITE EVACUATION ____ **11**

APPENDIX A DRAWINGS

DRAWING 9 - EVACUATION ROUTE PLAN

APPENDIX B TABLES

TABLE 1 - LOCAL FIRE SERVICES

TABLE 2 - LOCAL POLICE SERVICES

TABLE 3 - LOCAL EMERGENCY MEDICAL SERVICES

TABLE 4 - GOVERNMENT RESPONSE AGENCIES

TABLE 5 - OPERATIONS MANAGERS AND EMERGENCY COORDINATORS

TABLE 6 - WASTE TRANSPORTERS

APPENDIX C COORDINATION LETTERS

APPENDIX D COMMITMENT LETTER FOR HANDLING/HAULING OF C&D MATERIALS

CONTINGENCY PLAN
RECYCLABLES HANDLING AND RECOVERY
CONSTRUCTION AND DEMOLITION DEBRIS
PROCESSING FACILITY
TOMPKINS RECYCLING FACILITY INC
CARMEL, NEW YORK

SECTION 1.0 INTRODUCTION

1.1 PURPOSE

This contingency plan will address the hazards most likely to be encountered during the operation of the solid waste transfer, recyclables handling and recovery, and construction and demolition debris processing facility. These hazards will include fire, explosion, chemical spills, equipment breakdown, and releases into the environment. This plan is not, however, to be construed as a compilation of all possible emergencies or hazards, which might occur at the facility.

1.2 OPERATOR RESPONSIBILITY

It will be the sole responsibility of the facility operator to ensure that the facility will be operated, at a minimum, in conformance with the Occupational Safety and Health Agency (OSHA) regulations detailed in 29 CFR Parts 1900 through 1910, inclusive, 6 NYCRR Parts 360-1, 360-11, 360-12, and 360-16, the conditions delineated in the facility's Permit to Operate a Solid Waste Management Facility, and any other pertinent local regulations, so that the health and welfare of all workers and the public at large will be adequately safeguarded.

A copy of this plan, adequate for posting and review, along with all pertinent lists, to include address and phone numbers, of all concerned emergency agencies, as presented in Appendix B of this Plan, shall be conspicuously posted at the facility. In addition, all operating personnel will be required to become familiar with this plan so that emergency procedures can be implemented immediately with only quick reference to the plan.

SECTION 2.0 CONTROL OF RELEASES TO THE ENVIRONMENT

2.1 GENERAL

This section will address the actions to be taken by the recyclables handling and recovery, and construction and demolition debris facility's personnel in the event there is an inadvertent release to the environment.

2.2 NOTIFICATION

In the event of a spill or any release to the environment, the employees will be instructed to contact the Operations Manager identified in Table 5 - Operations Managers and Emergency Coordinators, Appendix B or most senior person at the facility for immediate assistance. The person notified will determine the extent and nature of the spill and/or environmental release. Once the extent of the spill and/or environmental release has been determined, the person notified will direct remedial efforts as outline in this Section. Furthermore, spills or incidents involving regulated medical waste, hazardous or toxic waste and/or materials will be reported by telephone, without delay, to the concerned agencies listed in Table 4 - Governmental Response Agencies, Appendix B of this plan. Said notice will be made within twenty-four (24) hours of the incident. In addition, within seventy two (72) hours of the spill or any release to the environment, the Emergency Coordinator identified in Table 5 - Operations Managers and Emergency Coordinators, Appendix B will submit a written report of the incident to the Solid and Hazardous Materials Engineer at the New York State Department of Environmental Conservation (NYSDEC) Regional Office with a copy to the Director, Division of Solid and Hazardous Materials at the New York State Department of Environmental Conservation (NYSDEC) Central Office. The contact telephone numbers and addresses are listed in Table 4 - Governmental Response Agencies, Appendix B.

2.3 SPILL CONTROL

2.3.1 SPILL RESPONSE KIT

In order to respond to potential spills of liquids, materials adequate for spill response will be readily available at all times. These absorbent materials, such as Sol Speed Dri, or an approved equal, neutralizing agents such as sodium bicarbonate for acid spills and boric acid for caustic spills, and containers adequate for the containment and clean up of potential spills will always be available on site. The spill response kit maintained by the facility consists of the following items:

- four (4) clean fifty-five (55) gallon drums.
- fifty (50) pounds of boric acid.
- fifty (50) pounds of sodium bicarbonate.
- four hundred (400) pounds of Sol Speed Dri, or approved equal.
- five (5) three (3) foot by three (3) foot absorbent pads.
- five (5) long handle shovels.
- two (2) long handle brooms.

- two (2) small hand brushes.
- two (2) long handle squeegees.
- two (2) short handle squeegees.
- safety drum plugs.
- wet/dry vacuums.
- over pack salvage containers.

2.3.2 SAFETY AND EMERGENCY EQUIPMENT

In order to protect facility personnel during the facility's spill response, adequate safety and emergency equipment will be readily available at the facility. The safety and emergency equipment maintained by the facility will consist of the following items:

- ten (10) Tyvek coveralls.
- four hundred (400) feet yellow caution tape.
- five (5) traffic cones.
- ten (10) pairs latex gloves.
- ten (10) pairs work gloves.
- five (5) pairs rubber boots.
- first aid kits and eye wash.
- goggles.
- liquid resistant gloves and boots.

The location of the facility's spill response kit is delineated on Drawing - Facility Plan, Appendix A.

2.3.3 SPILL CLEANUP

No spill cleanup will be undertaken unless adequate personal protective equipment (e.g. protective clothing, respirators, and eye protection) and safety measures are employed. Spill cleanup will proceed with all due speed. Generic spill responses (cleanup) procedures are detailed below.

2.3.3.1 SPILL CONTAINMENT

The initial spill response will consist of containing the spill to the immediate area. This will be accomplished by diking the area around the spill with Sol Speed Dri or approved equal or absorbent pads. Once the spill is properly contained, spill cleanup will proceed in accordance with the generic spill responses (cleanup) detailed below.

2.3.3.2 ACID SPILL CLEANUP

Acid spills will be covered with an absorbent, liberally covered with sodium bicarbonate, mixed, and placed into a container for removal. All containers will be sealed as they are filled.

2.3.3.3 CAUSTIC SPILL CLEANUP

Caustic spills will be covered with an absorbent, liberally covered with boric acid, mixed, and placed into a container for removal. All containers will be sealed as they are filled.

2.3.3.4 SOLVENT SPILL CLEANUP

Solvent spills will be covered with an absorbent and placed into a container for removal. All containers will be sealed as they are filled.

2.3.3.5 OIL SPILL CLEANUP

Oil spills will be covered with an absorbent and placed into a container for removal. All containers will be sealed as they are filled.

2.3.4 SPILL RESPONSE CONTRACTOR

Northeast Environmental, 225 Valley Place, Mamaroneck, New York 10543, (914) 777-1930 or an approved, comparable, alternate will be retained to be available on a twenty-four (24) hour basis to respond to hazardous waste/material incidents. The services provided by this contractor will consist of, at a minimum, technical advice, spill remediation, should the materials at hand be inadequate to properly respond to the spill, and the removal and subsequent disposal of any hazardous material or waste resulting from spill response efforts.

2.4 NOISE CONTROL

Noise will be controlled by conducting the waste processing operations within the recycling building located on the site. In addition, it should be noted that the only major noise sources within the facility will be the delivery trucks, the excavator, the front-end loaders, and the roll-off trucks. The delivery trucks, the excavator, front-end loaders, and the roll-off trucks will be equipped with mufflers in accordance with the motor vehicle regulations. Therefore, the noise level generated by this equipment will be similar to the noise levels generated by the truck traffic on the surrounding roadways.

2.5 DUST CONTROL

2.5.1 RECYCLABLES HANDLING AND RECOVERY AND CONSTRUCTION AND DEMOLITION DEBRIS PROCESSING OPERATIONS

Dust will be controlled by conducting the waste processing operations within the recycling building located on the site. In addition, the small quantities of dust will be also controlled by water spraying if the recycling building proves to be ineffective in controlling the small quantities of dust that may be encountered at the C & D unloading area, C & D tipping and sorting area, the construction and demolition debris residual waste storage area, the transfer truck loading area, and the railcar loading area and pit. Hose bibs and hoses will be provided throughout the recycling building dust for control proposes.

2.6 ODOR CONTROL

2.6.1 RECYCLABLES HANDLING AND RECOVERY AND CONSTRUCTION AND DEMOLITION DEBRIS PROCESSING OPERATIONS

The waste processing operations do not generate offensive odors due to the nature of the commingled recyclables and construction and demolition debris waste stream. However, if offensive odors are encountered within the facility, the offensive odors will be controlled by conducting the waste processing operations within the recycling building located on the site. In addition, the odors will be controlled by the Air-Reaxtor Inc. Fogmaster Mirco-Jet Drum Service Unit if the recycling building proves to be ineffective in controlling the offensive odors that may be encountered at the C & D unloading area, the C & D tipping and sorting area, the construction and demolition debris residual waste storage area, the transfer truck loading area, and the railcar loading area and pit. The Air-Reaxtor, Inc. Fogmaster Mirco-Jet Drum Service Unit sprays Air-Reaxtor, Inc. OWD Organic Waste and Decomposition Odor Counteractant.

2.7 VECTOR CONTROL

2.7.1 RECYCLABLES HANDLING AND RECOVERY AND CONSTRUCTION AND DEMOLITION DEBRIS PROCESSING FACILITY OPERATIONS

The characteristics of the commingled recyclables and construction and demolition debris waste stream should minimize the presence of vectors within the facility and at the site. However, if encountered, vectors will be controlled by extermination.

2.8 CONFINEMENT OF SOLID WASTE

Solid waste such as liter (blowing paper) will be confined to the site by locating the unloading areas, the tipping and sorting areas, the municipal solid waste storage area, the construction and demolition debris residual waste storage area, the transfer truck loading area, and the railcar loading area and pit loading area within the recycling building at the site. Additional confinement will be provided by the high chain link fence that surrounds the property. Confinement of dirt that may adhere to the wheels of the vehicles exiting the facility will be provided by paving the site with asphalt pavement.

2.9 CONTROL OF LEACHATE

2.9.1 RECYCLABLES HANDLING AND RECOVERY AND CONSTRUCTION AND DEMOLITION DEBRIS PROCESSING FACILITY OPERATIONS

The characteristics of the commingled recyclables and construction and demolition debris waste stream should minimize the presence of leachate within the facility. However, if leachate is encountered at the facility, it will be vacuumed up with a wet/dry vacuum, drummed, and properly disposed. Prior to disposal, the drums will be sampled for laboratory analysis to classify the leachate for disposal. The recovered liquid sample will be analyzed by a New York State Department of Health (NYSDOH) approved laboratory for waste disposal parameters (i.e. TCLP RCRA Inorganic Compounds, Flashpoint, Reactivity, Corrosivity, and pH). Once the waste disposal classification has been determined, the appropriate licensed waste hauler, identified in Table 6 - Waste Transporters, Appendix B, will remove the drum from facility or will pump out the drum and dispose the drum/liquid at a permitted disposal facility. Should leachate be suspected of contaminating a portion of the site, the appropriate portions of the subsurface

investigation outlined in the Closure Plan will be implemented to determine the extent of the contamination and develop a remedial action plan, if required. Floor drains connecting to a 1250 gallon storage tank will be located as shown on drawing C-004. The 1250 gallon double walled storage tank will be provided along with an alarm in the tank that will notify the operator when to schedule pumping. The control panel and alarm will be located in the second (2nd) floor office. The alarm will be set to notify the operator when the tank has 1,000 gallons in it. An emergency alarm will be set to go off at the 1,100 gallon level.

Water usage is expected to be at a rate of 3 to 5 gallons a minute and be used approximately 10 minutes a day. The daily loading will approximate 50 gallons per day and require 20 days before pumping. The tank has been set so as to be two feet above the seasonally high groundwater table. The tanks will be constructed of carbon steel and be cathodically protected. The cathodic protection system will be inspected once per year. The interstitial space will be monitored for tightness at least once per week by the facility operator using either pressure monitoring, vacuum monitoring, electronic monitoring or an approved (by DEC) equivalent method.

The liquid that is pumped will be disposed of at a NYSDEC approved treatment, storage, or disposal facility.

2.10 UNUSUAL TRAFFIC CONDITIONS

In the event of unusual traffic conditions, accident or traffic congestion, Tompkins will hold all outbound delivery trucks and roll-off trucks at the facility until unusual traffic condition subsides. Tompkins will notify the roll-off container service companies that provide roll-off trucks to transport the recovered recyclables of unusual traffic conditions as that the can advised this trucks by two-way radio to use alternate routes to the facility or to remain at the last pickup location until unusual traffic condition subsides. Tompkins can not divert any of the inbound delivery trucks because these trucks are controlled by other waste collection and roll-off container service companies.

2.11 UNAUTHORIZED WASTE CONTROL

In the event that an unauthorized or hazardous waste is identified within the confines of the facility, it will be treated as outlined in the Waste Control Plan.

SECTION 3.0 EQUIPMENT BREAKDOWN

3.1 GENERAL

In the event of malfunction of the on-site equipment such as the Air-Reaxtor Inc. Fogmaster Mirco-Jet Drum Service Odor Control Units, the excavator, the front end-loaders, or the one hundred (100) ton truck scale several alternatives depending on the magnitude of the equipment malfunction will be available to the facility as outline in Section 3.2 below.

3.2 EQUIPMENT BREAKDOWN

The following actions will be taken by the facility in the order given below, as appropriate, to remedy equipment malfunction:

1. Troubleshoot and repair.
2. Use standby equipment.
3. Rent replacement equipment.
4. By-pass effected operation.

3.3 FACILITY SHUTDOWN

3.3.1 RECYCLABLES HANDLING AND RECOVERY AND CONSTRUCTION AND DEMOLITION DEBRIS PROCESSING FACILITY OPERATIONS

In the event of a facility shutdown, which will be greater that twenty-four (24) hour, the facility will not accept any additional waste. The incoming commingled recyclables and construction and demolition debris will be diverted to Seneca Meadows, Inc., a landfill for disposal. Recovered recyclables (uncontaminated asphalt pavement, brick and other masonry products, cardboard, concrete, ferrous and nonferrous metals, paper, rock, soil, and wood) previously accepted at the facility will be stored in the recyclables storage area for up to sixty (60) days in accordance with the provisions of 6 NYCRR 360-16.4(f)(4). Construction and demolition debris residual waste previously accepted at the facility will be stored in the construction and demolition debris residual waste storage area for up to thirty (30) days in accordance with the provisions of 6 NYCRR 360-16.4(f)(2). If the facility shut down continues for more than thirty (30) days, the facility will removal all construction and demolition debris residual waste from the facility as outlined in the Operation and Maintenance Manual. In addition, if the facility shut down continues for more than sixty (60) days, the facility will remove all recovered recyclables from the facility as outlined in the Operation and Maintenance Manual.

In addition, the Emergency Coordinator identified in Table 5 - Operations Managers and Emergency Coordinators, Appendix B will immediately notify the Solid and Hazardous Materials Engineer at the New York State Department of Environmental Conservation (NYSDEC) Regional Office by telephone of the facility shutdown. Said notice will be made within twenty-four (24) hours of the incident. In addition, within seventy two (72) hours of the shutdown, the Emergency Coordinator will submit a written report of the incident to the Solid and Hazardous Materials Engineer at the New York State Department of Environmental Conservation (NYSDEC) Regional Office with a copy to the Director, Division of Solid and

Hazardous Materials at the NYSDEC Central Office. The contact telephone numbers and addresses are listed in Table 4 - Governmental Response Agencies, Appendix B.

SECTION 4.0 FIRES AND EXPLOSION

4.1 FIRE PROTECTION

Fire protection equipment consisting of fire extinguishers and fire hoses and standpipes and fire sprinkler system will be provided in the facility. Fire extinguishers and fire hoses will be available at the facility's unloading areas, tipping and sorting areas, recyclables storage area, municipal solid waste storage area, construction and demolition debris residual waste storage area, the transfer truck loading area, and the residual waste loading area. All fire extinguishers are capable of fighting class A, B, and C fires as defined by the Underwriters Laboratories.

4.2 FACILITY'S EMERGENCY RESPONSE

4.2.1 FIRE

In cases of fire at the facility, the emergency coordinator identified in Table 5 - Operations Managers and Emergency Coordinators, Appendix B will assess if the emergency response equipment maintain by the facility (fire extinguishers and hoses) is adequate for the emergency on hand. If the emergency coordinator determines that Tompkins can respond to the emergency in progress with the forces and equipment available, he will implement the appropriate action (fight fire with fire extinguishers or hoses). If he determines that Tompkins cannot respond to the fire with the forces and equipment at hand, he will immediately contact the local fire response units listed in Tables 1 - Local Fire Services, Appendix B.

4.2.2 EXPLOSION

In a case of an explosion at the facility, the emergency coordinator identified in Table 5 - Operations Managers and Emergency Coordinators, Appendix B will immediately contact the emergency response units listed in Table 1 - Local Fire Services, Table 2 - Local Police Services, and Table 3 - Local Emergency Medical Services, Appendix B.

4.2.3 PERSONAL INJURY

In cases of personal injury at the facility, the emergency coordinator identified in Table 5 - Operations Managers and Emergency Coordinators, Appendix B will assess if the emergency response equipment maintain by the transfer facility (first aid kits) is adequate for the emergency on hand. If the energy coordinator determines that Tompkins can respond to the emergency in progress with the forces and equipment available, he will implement the appropriate action (treat injured personnel with first aid kit). If he determines that Tompkins cannot respond to the injury with the forces and the equipment at hand, he will immediately contact the local emergency medical response unit listed in Table 1- Local Fire Services, Appendix B.

4.3 LOCAL RESPONSE AGENCY ARRANGEMENTS

4.3.1 CARMEL FIRE DEPARTMENT (CFD)

The Carmel Fire Department (CFD) will respond to fire calls at the facility with engine and truck companies from their station located at 94 GLENEIDA AVENUE , CARMEL, NEW YORK. In addition, the Carmel Fire Department (CFD) will respond to medical emergencies and physical injuries with their rescue and ambulance companies from their station located at 94 GLENEIDA AVENUE, CARMEL , NEW YORK. The contact telephone number and address are listed in Table 1 - Local Fire Services, Appendix B.

4.3.2 TOWN OF CARMEL POLICE DEPARTMENT

The Town of Carmel Police Department will respond from the 60 McAlpin Avenue, Mahopac, NY 10541, (Telephone: 845-628-1300; Fax: 845-628-2597) to all emergency calls at the facility from either 911, precinct or from mutual aid calls from the Brewster Fire Department (BFD). The contact telephone number and address are listed in Table 2 - Local Police Services, Appendix B.

4.3.3 PUTNAM HOSPITAL CENTER (PHC)

The Carmel Fire Department (CFD) has a standing transportation agreement with Putnam Hospital Center located within the traveling distances as identified in the appendix for the emergency treatment of the sick/injured. In addition, no formal arrangements are required with either hospital/Medical Center because it provides twenty-four (24) hour per day walk in emergency medical care at their Emergency Room. The contact telephone number and address are listed in Table 3 - Local Emergency Medical Services, Appendix B.

4.4 PLAN COORDINATION WITH LOCAL RESPONSE AGENCIES

Copies of this plan have been forwarded the emergency response agencies delineated in Section 4.3 of this plan for the review. Copies of the letters transmitting this plan to emergency response agencies delineated in Section 4.3 of this plan are contained in Appendix C.

4.5 SITE EVACUATION

In the event that the emergency response equipment maintained at the facility is inadequate for the task at hand and the nature of the emergency is such that there is a real and present risk of injury to the facility personnel, the facility will be evacuated. Appropriate agencies, specifically the Town of Carmel Police Department and Brewster Fire Department (Emergency), will be immediately notified of such a decision so that any dangers to the public at large may be promptly and adequately assessed. The emergency coordinator listed Table 5 - Operations Managers and Emergency Coordinators, Appendix B will make the decision to evacuate the facility and will, at that time, indicate his decision by activating the alarm (portable air horn) dedicated to such an evacuation. The evacuation will proceed according to posted evacuation routes; personnel will assemble in pre-designated assembly areas. Roll calls will be performed at the assembly areas so that all personnel may be accounted for.

Evacuation routes will be labeled as per 29 CFR 1910.145 and any applicable, local rules, and regulations. The proposed evacuation routes have been delineated on Drawing 9 - Evacuation Route Plan, Appendix A. Additionally, the management will periodically conduct evacuation exercises so that the employees will become familiar with the excavation routes and assembly areas.

KEANE
COPPELMAN
GREGORY
ENGINEERS, P.C.
CIVIL & ENVIRONMENTAL CONSULTANTS

113 SMITH AVENUE
MOUNT KISCO, NY 10549
T:(914) 241-2235
F:(914) 241-6787

March 8, 2016

Mr. Richard J. Franzetti P.E., Town Engineer
Town of Carmel Environmental Conservation Board
60 McAlpin Avenue
Mahopac, New York 10541

Regarding: Lobel, 8 Fairy Residence – Proposed Pool
8 Fairy Lane, Mahopac
TM# 75.8-1-53
Carmel (T)

Dear Mr. Franzetti, P.E.,

This office has finalized the Site Plan and Construction Details for the pool proposed at the above referenced address. Plans have been revised to address all of the concerns expressed by the Environmental Conservation Board and your review memorandum dated June 9, 2016. Attached please find three (3) copies of the revised plans and SWPPP for your review. Plans have been revised as follows:

1. *NYC DEP has issued the approval for the SWPPP on March 7, 2017.*

2. *Additional information to support the EAF has been provided regarding questions 12b, 15, 16, and 20.*

3. *The construction access is limited in order to protect existing trees adjacent to the driveway. The access has been increased to 11 ft. which is sufficient as only an excavator and small skidsteer will be accessing the lower area.*

4. *Plans have been revised to minimize the overland flow contributing to the rain garden. The rain garden will be capturing and treating stormwater runoff generated by the proposed pool terrace which is less than the suggested 1,000 sf. NYCDEP required the rain garden to be sized to accommodate the volume of runoff generated by the 1-year, 24 hour storm event. Sizing calculations are provided in the SWPPP and on the plan.*

5. *NYCDEP required the rain garden to be sized to capture the 1 year-24 hour storm event. A calculation has been performed comparing the 90% storm event to the 1-year 24 hour storm event and the rain garden has been sized to accommodate the larger volume. A value of 2.79 inches was used to determine the 90% storm volume.*

6. *A Typical rain garden section is provided on the detail sheet that indicates how the terrace drainage is connected to it.*

7. *Rain garden sizing calculations have been provided to NYCDEP and can be found in the SWPPP report in Appendix C and on the Construction Details sheet.*

8. *A product data sheet and instructions for oil boom are attached for your review.*

9. *All proposed grades are shown on the plan.*

10. *The 100ft wetland buffer line has been shown on the drawing.*

11. *The plan has been revised to indicate the use of straw bales instead of hay bales.*

12. *A copy of the complete set of plans including the Landscape Plan is being provided to the Town of Carmel Wetland Inspector for review and approval.*

13. *The SWPPP has been updated to satisfy comments of NYCDEP, and includes the components of Part III in the GP-0-15-002*

14. *A Town of Carmel Building Permit will be obtained.*

15. *The requirements of the Integrated Plot Plan have been provided on the Site Plan.*

In addition, we are providing you with a NYSDEC Notice of Intent and the MS4 Acceptance Form for your review.

Should you have any questions regarding the above responses or require any additional information please feel free to contact us. The owner respectfully submits the updated information to conclude the review of the application.

Very Truly Yours,

Peter J. Gregory, P.E.
PG/tm

Environmental Protection

Vincent Sapienza
Acting Commissioner

Paul V. Rush, P.E.
Deputy Commissioner
Bureau of Water Supply
prush@dep.nyc.gov

465 Columbus Avenue
Valhalla, NY 10595
T: (845) 340-7800
F: (845) 334-7175

March 7, 2017

Mr. Peter J. Gregory, P.E.
Keane Coppelman Gregory Engineers P.C.
13 Smith Avenue
Mt. Kisco, NY 10549

Via email: PGREGORY@KCENGINEERS.COM

Re: Lobel Residence Pool - SWPPP
8 Fair Lane, (T) Carmel
Tax Map # 75.8-1-53
Amawalk Reservoir Basin
DEP Log # 2016-AM-0503-SP.1

Dear Mr. Gregory:

This letter is to inform you that your application to engage in the above referenced regulated activity pursuant to the "Rules and Regulations for the Protection from Contamination, Degradation and Pollution of the New York City Water Supply and Its Sources" (Regulations) was approved on March 7, 2017.

The Department reserves the right to modify, suspend or revoke this approval based on the grounds set forth in Section 18-26 of the Regulations. The activity proposed in your application only applies to the terms of this approval and is subject to the Regulations cited above. Failure to comply with the conditions of the approval may be the cause for suspension of this approval and initiation of an enforcement action. Should modification, suspension or revocation of an approval be necessary, the Department will notify the regulated party, via certified mail or personal service prior to modifying, suspending or revoking the approval. The notice will state the alleged facts or conduct which appear to warrant the intended action and explain the procedures to be followed.

The Regulations provide that an applicant may appeal the imposition of a substantial condition in an approval by filing a petition, in writing, with NYCDEP and with the New York City Office of Administrative Trials and Hearings (OATH) within thirty days of the date this determination was mailed.

NYCDEP may inspect and monitor the erosion control practices at the project site during construction. Therefore, a pre-construction meeting must be held at least two days prior to the start of any work. The owner, design professional, contractor and NYCDEP personnel must attend.

Please contact Mary Galasso at (914) 749 – 5265 to schedule this pre-construction meeting.

Sincerely,

Mary P. Galasso
Supervisor
Stormwater Programs EOH

c: Mark Lobel for 8 Fairy Lane LLC, owner, meat1096@aol.com
Rose Trombetta, (T) Carmel Planning, rtrombetta@ci.carmel.ny.us
Rich Franzetti, P.E., (T) Carmel Engineering, rjf@ci.carmel.ny.us
Armand DeAngelis, NYSDEC, armand.deangelis@dec.ny.gov

New York City
Department of Environmental Protection

STORMWATER POLLUTION PREVENTION PLAN DETERMINATION

Pursuant to the authority granted under:

Article 11 of the New York State Public Health Law;
Rules and Regulations For The Protection From Contamination, Degradation and Pollution Of The New York City Water Supply and Its Sources, 15 RCNY Chapter 18, 10 NYCRR Part 128.

New York City Department of Environmental Protection makes the following determinations with respect to the stormwater pollution prevention plan described below:

Name of Project: Lobel Residence Pool

Location: 8 Fairy Lane
(T) Carmel, Putnam County, New York
Tax Map # 75.8-1-53

Owner: Mark Lobel
8 Fairy Lane, LLC

Address: 8 Fairy Lane
Mahopac, NY 10541

Drainage Basin: Amawalk Reservoir

General Description:

The proposed project consists of construction of a swimming pool, terrace, and pool equipment pad at an existing single family residence served by an on-site subsurface sewage treatment system and well. Approximately 1750 square feet of new impervious surface is proposed. DEP review and approval of a SWPPP is required by Section 18-39 (b)(3)(x) of the Watershed Regulations --Construction of a new impervious surface in the East of Hudson Watershed in a Designated Main Street Area. Stormwater management and runoff reduction will be achieved using a rain garden.

The Stormwater Pollution Prevention Plan shall be implemented in accordance with the plan titled "Stormwater Pollution Prevention Plan" Keane, Coppelman, Gregory Engineers, P.C.dated September 16, 2016 and last revised February 23, 2017. (see appendix A).

(XX) Approved ( ) Denied

Conditions of Approval:

This approval is granted with the following conditions:

- The regulated activity must be conducted in compliance with the plans as approved, listed in Appendix A, all applicable accepted standards, and all applicable laws, rules and regulations.
- Any alteration or modification of the SWPPP must be approved by DEP prior to implementation; DEP may opt to issue an amended SWPPP Determination.
- The applicant must schedule a pre-construction conference prior to the start of construction. Present at the meeting should be the applicant, the design engineer, the general contractor, and DEP staff.
- The applicant must notify DEP at least forty-eight (48) hours prior to the commencement of construction activity so that compliance inspections may be scheduled by DEP.
- All erosion and sediment controls must be properly installed and maintained until the site has been stabilized and the risk of erosion eliminated. Final stabilization is defined in the General Permit as all soil disturbing activities at the site have been completed, and that a uniform perennial vegetative cover with a density of 80% cover for the area has been established or equivalent stabilization measures (such as the use of mulches or geotextiles) have been employed.
- The applicant is required to submit as-built drawings for all stormwater management and water quality facilities.
- The stormwater management and water quality facilities must be maintained in accordance with the maintenance schedule included in the SWPPP as approved by DEP.
- This approval shall expire and thereafter be null and void unless construction is completed within Five (5) years of the date of issuance or within any extended period of time approved by DEP upon good cause shown.
- In the event that the material submitted is inaccurate or misleading, this approval is not valid and construction of this project is in violation of DEP regulations
- Failure to comply with any of the conditions of this approval is a violation of this approval and the *Rules and Regulations For The Protection From Contamination, Degradation and Pollution Of The New York City Water Supply and Its Sources*.
- This approval and all conditions of the approval are binding on the owner of the property where the facility is to be located. Any references to the "applicant" in this approval or in

any conditions of this approval shall be deemed to refer to the owner of such property.

- If the applicant sells or otherwise transfers title of Lobel Pool before all construction planned for the property is completed and the site is stabilized, the applicant shall require the new owner ("Buyer") to comply with the SWPPP approved by the New York City Department of Environmental Protection on March 6, 2017 including, but not limited to, conservation easements, negative covenants, all provisions relating to erosion and sediment control during construction and to all maintenance of the stormwater management facilities once construction is complete. In particular, the applicant shall provide the Buyer with a copy of the SWPPP and shall cause the following real covenants and restrictions to be recorded with the deed for Lobel Pool with the following provisions:

  (1) Buyer hereby acknowledges, covenants, warrants, and represents that he/she shall install and maintain any and all erosion controls and stormwater management facilities on the premises in accordance with the SWPPP, such SWPPP being attached hereto as Exhibit __.

  (2) Buyer's installation and maintenance of the erosion control and stormwater management facilities shall be for the benefit of the City of New York as well as for the owners of Lobel Pool.

  (3) Buyer's obligation to install and maintain any and all erosion controls and stormwater management facilities on the premises in accordance with the attached SWPPP shall be perpetual, shall run with the land, and shall be binding on Buyer's heirs, successors, and assigns.

  (4) Buyer hereby covenants, warrants and represents that any lease, mortgage, subdivision, or other transfer of Lobel Pool SWPPP, or any interest therein, shall be subject to the restrictive covenants contained herein pertaining to the installation and maintenance of erosion control and stormwater management facilities, and any deed, mortgage, or other instrument of conveyance shall specifically refer to the attached SWPPP and shall specifically state that the interest thereby conveyed is subject to covenants and restrictions contained herein.

- Prior to conveying title to Lobel Pool, the applicant shall submit to the New York City Department of Environmental Protection a proposed deed containing the aforementioned real covenants and restrictions.

This approval and all conditions of the approval are binding on the owner of the property where the stormwater management facilities are to be located. Any references to the "applicant" in this approval or in any conditions of this approval shall be deemed to refer to the owner of such property.

Date: March 7, 2017

Determination made by:

Mary P. Galasso
Supervisor
Stormwater programs, EOH
DEP Regulatory and Engineering Programs

This determination letter must be maintained by the applicant and be readily available for inspection at the construction site.

APPENDIX A

The following documents were prepared by Keane, Coppelman, Gregory Engineers, P.C. for Lobel Pool:

1. Stormwater Pollution Prevention Plan dated September 16, 2016 and last revised February 23, 2017.

2. Drawing entitled "Pre-Development Drainage Map" dated September 3, 2014, last revised February 23, 2017.

3. Drawing entitled "Post-Development Drainage Map" dated September 3, 2014, last revised February 23, 2017.

4. Sheet 1 of 3 entitled "Existing Conditions" dated December 3, 2015, last revised February 23, 2017.

5. Sheet 2 of 3 entitled "Site Plan" dated December 3, 2015, last revised February 23, 2017.

6. Sheet 3 of 3 entitled "Construction Details" dated December 3, 2015, last revised February 23, 2017.

7. Drawing C-131 entitled "Pipe Installation within ROW Plan" dated September 3, 2014, last revised May 23, 2016.

The following drawing was prepared by Imbiano-Quigley Landscape Architects for Lobel Pool:

8. Sheet L-2 entitled "Planting Plan" dated February 12, 2016.

617.20
Appendix B
Short Environmental Assessment Form

Instructions for Completing

Part 1 - Project Information. The applicant or project sponsor is responsible for the completion of Part 1. 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.

Complete all items in Part 1. You may also provide any additional information which you believe will be needed by or useful to the lead agency; attach additional pages as necessary to supplement any item.

Part 1 - Project and Sponsor Information

Lobel Fairy Island, LLC Pool

Name of Action or Project:
Lobel Residence Pool

Project Location (describe, and attach a location map):
8 Fairy Lane, Mahopac, New York, 10541 - Town of Carmel

Brief Description of Proposed Action:
Construction of a 18' wide x 40' long swimming pool with spa, retaining wall, pool terrace, pool equipment and stormwater mitigation system in form of a rain garden.

Name of Applicant or Sponsor:	Telephone: 914-241-2235
Peter J. Gregory, P.E. Keane Coppelman Gregory Engineers, P.C.	E-Mail: pgregory@kcgengineers.com

Address:
113 Smith Avenue

City/PO:	State:	Zip Code:
Mount Kisco	NY	10549

	NO	YES
1. Does the proposed action only involve the legislative adoption of a plan, local law, ordinance, administrative rule, or regulation? If Yes, attach a narrative description of the intent of the proposed action and the environmental resources that may be affected in the municipality and proceed to Part 2. If no, continue to question 2.	☑	☐
2. Does the proposed action require a permit, approval or funding from any other governmental Agency? If Yes, list agency(s) name and permit or approval: Town of Carmel - Wetland Permit & Building Permit; NYS DEC - Freshwater Wetlands Permit; Westchester County Department of Health - OWTS Construction Permit	☐	☑

3.a. Total acreage of the site of the proposed action? 0.5175 acres
b. Total acreage to be physically disturbed? 0.1779 acres
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 0.5175 acres

4. Check all land uses that occur on, adjoining and near the proposed action.
☐ Urban ☐ Rural (non-agriculture) ☐ Industrial ☐ Commercial ☑ Residential (suburban)
☐ Forest ☐ Agriculture ☐ Aquatic ☐ Other (specify): _____
☐ Parkland

	NO	YES	N/A
5. Is the proposed action,			
a. A permitted use under the zoning regulations?	☐	☑	☐
b. Consistent with the adopted comprehensive plan?	☐	☑	☐

	NO	YES
6. Is the proposed action consistent with the predominant character of the existing built or natural landscape?	☐	☑
7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area? If Yes, identify: _____	☑	☐
8. a. Will the proposed action result in a substantial increase in traffic above present levels?	☑	☐
b. Are public transportation service(s) available at or near the site of the proposed action?	☐	☑
c. Are any pedestrian accommodations or bicycle routes available on or near site of the proposed action?	☑	☐
9. Does the proposed action meet or exceed the state energy code requirements? If the proposed action will exceed requirements, describe design features and technologies: _____	☐	☑
10. Will the proposed action connect to an existing public/private water supply? If No, describe method for providing potable water: Existing private potable water well	☑	☐
11. Will the proposed action connect to existing wastewater utilities? If No, describe method for providing wastewater treatment: Existing on-site wastewater treatment system	☑	☐
12. a. Does the site contain a structure that is listed on either the State or National Register of Historic Places?	☑	☐
b. Is the proposed action located in an archeological sensitive area?	☐	☑
13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain wetlands or other waterbodies regulated by a federal, state or local agency?	☐	☑
b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody? If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres: Water Body - Lake Mahopac	☑	☐
14. Identify the typical habitat types that occur on, or are likely to be found on the project site. Check all that apply: ☐ Shoreline ☐ Forest ☐ Agricultural/grasslands ☐ Early mid-successional ☐ Wetland ☐ Urban ☑ Suburban		
15. Does the site of the proposed action contain any species of animal, or associated habitats, listed by the State or Federal government as threatened or endangered?	☐	☑
16. Is the project site located in the 100 year flood plain?	☐	☑
17. Will the proposed action create storm water discharge, either from point or non-point sources? If Yes, a. Will storm water discharges flow to adjacent properties? ☑ NO ☐ YES	☐	☑
b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)? If Yes, briefly describe: ☑ NO ☐ YES		

	NO	YES
18. Does the proposed action include construction or other activities that result in the impoundment of water or other liquids (e.g. retention pond, waste lagoon, dam)? If Yes, explain purpose and size:	✓	
19. Has the site of the proposed action or an adjoining property been the location of an active or closed solid waste management facility? If Yes, describe:	✓	
20. Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or completed) for hazardous waste? If Yes, describe: Site Name: Mahopac Business District Wells. Site Code: 340013. Size: 6 Acres. Hazardous Waste: Tetrachloroethene, Trichloroethylene, Tetrachloroethylene. Hazardous Waste Disposal Period: 1950s? to 1979.		✓

I AFFIRM THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE

Applicant/sponsor name: _____ Date: 3.7.17

Signature: _____

Part 2 - Impact Assessment. The Lead Agency is responsible for the completion of Part 2. Answer all of the following questions in Part 2 using the information contained in Part 1 and other materials submitted by the project sponsor or otherwise available to the reviewer. When answering the questions the reviewer should be guided by the concept "Have my responses been reasonable considering the scale and context of the proposed action?"

	No, or small impact may occur	Moderate to large impact may occur
1. Will the proposed action create a material conflict with an adopted land use plan or zoning regulations?		
2. Will the proposed action result in a change in the use or intensity of use of land?		
3. Will the proposed action impair the character or quality of the existing community?		
4. Will the proposed action have an impact on the environmental characteristics that caused the establishment of a Critical Environmental Area (CEA)?		
5. Will the proposed action result in an adverse change in the existing level of traffic or affect existing infrastructure for mass transit, biking or walkway?		
6. Will the proposed action cause an increase in the use of energy and it fails to incorporate reasonably available energy conservation or renewable energy opportunities?		
7. Will the proposed action impact existing: a. public / private water supplies?		
b. public / private wastewater treatment utilities?		
8. Will the proposed action impair the character or quality of important historic, archaeological, architectural or aesthetic resources?		
9. Will the proposed action result in an adverse change to natural resources (e.g., wetlands, waterbodies, groundwater, air quality, flora and fauna)?		

	No, or small impact may occur	Moderate to large impact may occur
10. Will the proposed action result in an increase in the potential for erosion, flooding or drainage problems?	☐	☐
11. Will the proposed action create a hazard to environmental resources or human health?	☐	☐

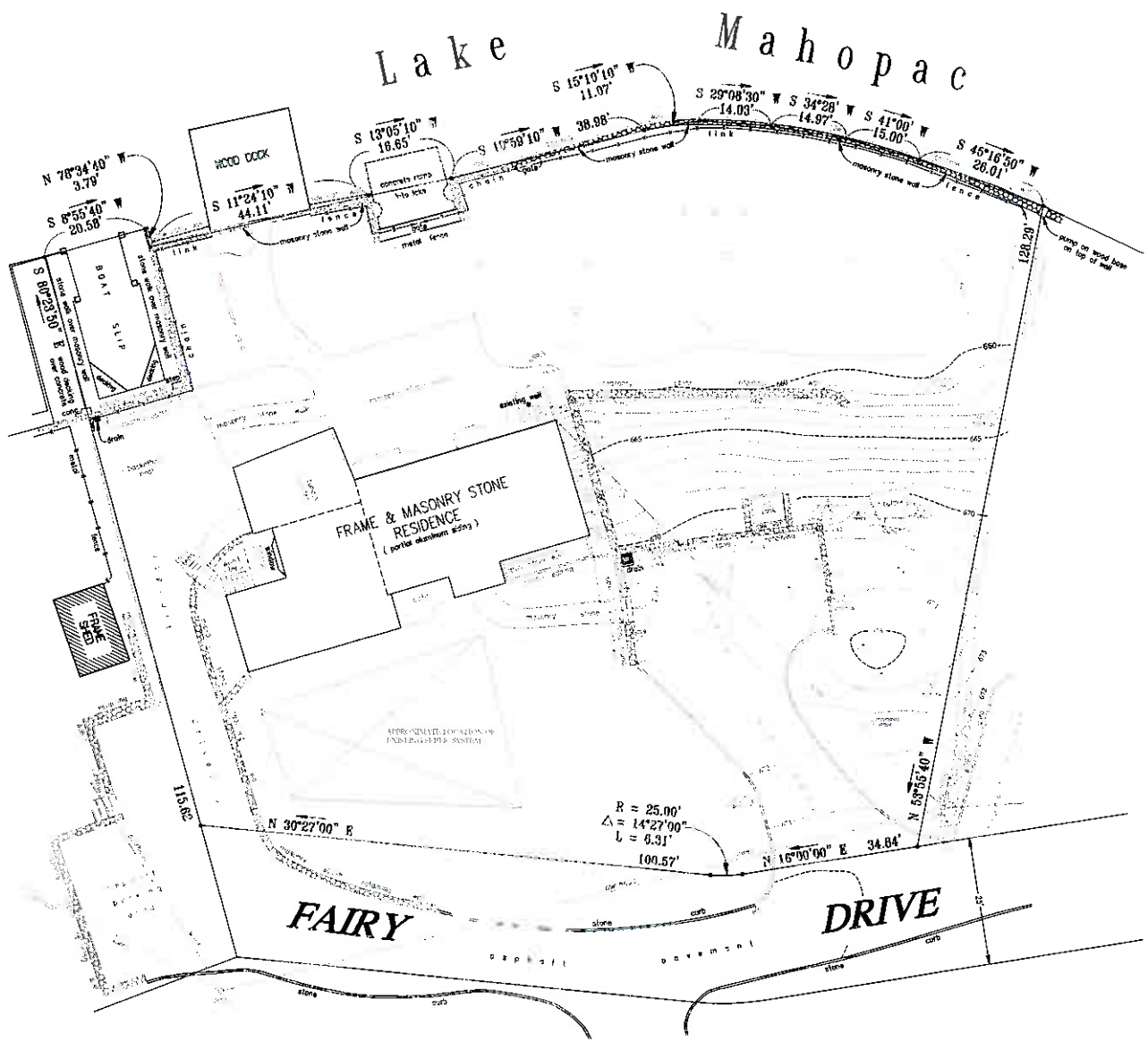
Part 3 - Determination of significance. The Lead Agency is responsible for the completion of Part 3. For every question in Part 2 that was answered "moderate to large impact may occur", or if there is a need to explain why a particular element of the proposed action may or will not result in a significant adverse environmental impact, please complete Part 3. Part 3 should, in sufficient detail, identify the impact, including any measures or design elements that have been included by the project sponsor to avoid or reduce impacts. Part 3 should also explain how the lead agency determined that the impact may or will not be significant. Each potential impact should be assessed considering its setting, probability of occurring, duration, irreversibility, geographic scope and magnitude. Also consider the potential for short-term, long-term and cumulative impacts.

☐ Check this box if you have determined, based on the information and analysis above, and any supporting documentation, that the proposed action may result in one or more potentially large or significant adverse impacts and an environmental impact statement is required.

☐ Check this box if you have determined, based on the information and analysis above, and any supporting documentation, that the proposed action will not result in any significant adverse environmental impacts.

Name of Lead Agency	Date
Print or Type Name of Responsible Officer in Lead Agency	Title of Responsible Officer
Signature of Responsible Officer in Lead Agency	Signature of Preparer (if different from Responsible Officer)

PRINT



PROJECT NOTES

1. OWNER/APPLICANT
   LOBEL FAIRY ISLAND, LLC
   8 FAIRY LANE
   MAHOPAC, NEW YORK 10541
   914.337.7868

2. PROJECT SITE ADDRESS
   8 FAIRY LANE
   MAHOPAC, NEW YORK 10541
   (T) CARMEL

3. TOWN OF CARMEL TAX MAP INFORMATION
   SECTION 78.06 BLOCK 1 LOT 53

   TOTAL AREA OF PARCEL = 22,544 SF (0.5175 ACRES)

   TOWN OF CARMEL RESIDENTIAL ZONING DISTRICT

4. WATERSHED BASIN: NEW YORK CITY

"UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS DRAWING IS A VIOLATION OF SECTION 7209 (2) OF THE NEW YORK STATE EDUCATION LAW"

PLAN SCALE 1" = 10'

PETER J. GREGORY, PE LIC # 071326

REVISIONS

NO	DATE	BY	DESCRIPTION
1	1/30/17	JRM	DEP REVIEW DATED 1/27/17
2	2/23/17	JRM	DEP REVIEW
3	5/8/17	JRM	TOWN ENGINEER REVIEW DATED 5/9/16
4			
5			

EXISTING CONDITIONS

LOBEL RESIDENCE POOL
8 FAIRY LANE
TOWN OF CARMEL
PUTNAM COUNTY, NEW YORK

DRAWN BY MAG | CHECKED BY PJG

KEANE COPPELMAN GREGORY
ENGINEERS, P.C.
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WWW.KCGENGINEERS.COM

DATE 12/03/2015 | SHEET 1 OF 3

PROJECT NOTES

1 OWNER/APPLICANT
LOBEL FAIRY ISLAND, LLC
8 FAIRY LANE
MAHOPAC, NEW YORK 10541
914-337-7805

2 PROJECT SITE ADDRESS:
8 FAIRY LANE
MAHOPAC, NEW YORK 10541
(T) CARMEL

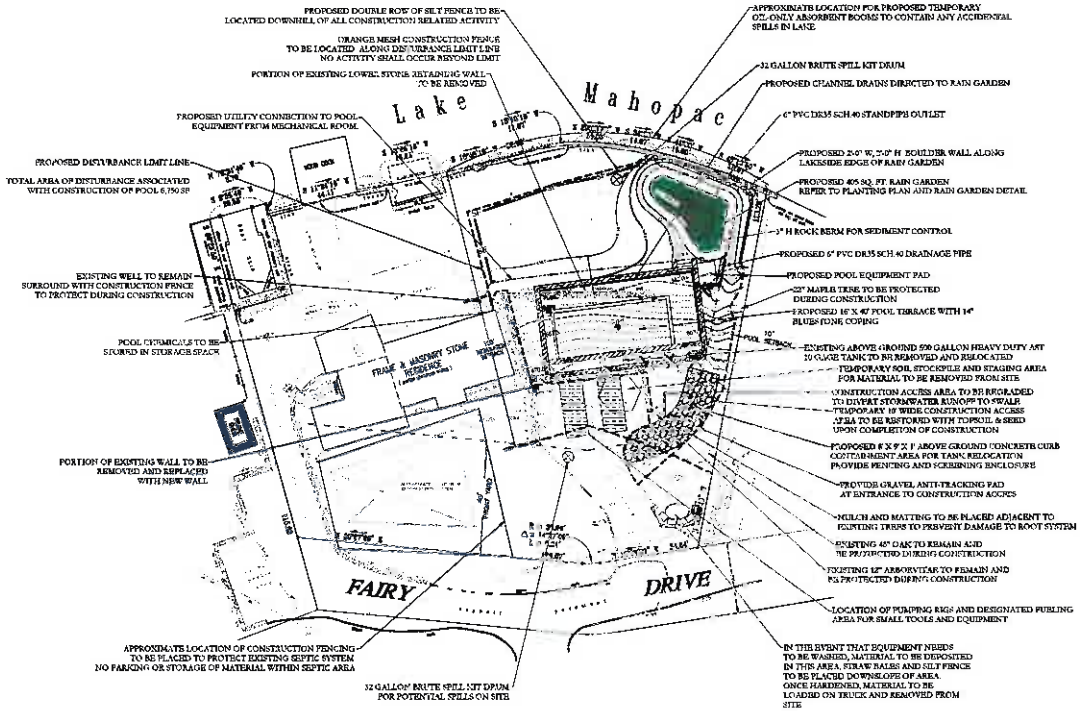
3 TOWN OF CARMEL TAX MAP INFORMATION
SECTION. 75.08 BLOCK 1 LOT 53

TOTAL AREA OF PARCEL = 22,544 SF (0.5175 ACRES)

TOWN OF CARMEL RESIDENTIAL ZONING DISTRICT

4 WATERSHED BASIN: NEW YORK CITY

5 AN INVESTIGATION FOR THE PRESENCE OF USACOE WETLANDS WAS CONDUCTED BY PAUL DIENNIS ON MAY 11, 2016



LOCATION MAP
NOT TO SCALE

TP(#) SYMBOL FOR DEEP TEST HOLE

TEST PIT 1
0 L MULCH
0'-6" ORGANIC
6'-12" DARK BROWN LOAM
12"-24" GRAY FINE-MED SANDY LOAM
24" LEDGE
*24" LEDGE

TEST PIT 2
0 L MULCH
0'-6" ORGANIC
6'-12" DARK BROWN LOAM
12"-33" GRAY FINE-MED SANDY LOAM
33" LEDGE
*30" LEDGE

PROJECT NOTES
1. ALL CONSTRUCTION RELATED ACTIVITY SHALL OCCUR WITHIN THE LIMITS OF DISTURBANCE INDICATED ON THIS PLAN. THE LIMIT LINE SHALL BE CLEARLY DELINEATED ON THE FIELD THROUGHOUT THE CONSTRUCTION PERIOD WITH ORANGE MESH CONSTRUCTION FENCE. NO ENCROACHMENT SHALL OCCUR BEYOND THESE LIMITS BY WORKERS, MACHINERY, OR MATERIAL STORAGE.
2. A SPILL KIT SHALL BE MAINTAINED ON THE PROPERTY THROUGHOUT THE CONSTRUCTION PERIOD TO DEAL QUICKLY AND EFFECTIVELY WITH ACCIDENTAL SPILLS. REFER TO SPILL PLAN ON SHEET 3. SPILL CONTROL PLAN TO STOP THE SOURCE OF THE SPILL, CONTAIN THE SPILL, CLEAN THE SPILL, AND DISPOSE OF ANY MATERIAL CONTAMINATED BY THE SPILL. PRIOR TO THE START OF ANY CONSTRUCTION THE PLAN SHALL GO INTO EFFECT, AND TERMINATE UPON SITE STABILIZATION
3. PRIOR TO THE APPLICATION OF THE POOL GUNITE, PLASTIC SHEETING SHALL BE SECURED ON ALL FOUR SIDES OF THE APPLICATION TO PREVENT ANY OVERSPRAY FROM THE GUNITE DAMAGING ADJACENT AREA.
4. WET MIX "SHOT CRETE" WILL BE DELIVERED TO THE SITE FOR APPLICATION. NO MIXING SHALL OCCUR ON THE PROPERTY. SHOULD WASHOUT OCCUR ON THE SITE DURING CONSTRUCTION, ANY SPOILS SHALL BE DIRECTED TO WASHOUT BASIN AREA INDICATED ON PLAN
5. PUMPING RIG FOR GUNITE APPLICATION SHALL BE LOCATED ON EXISTING ASPHALT DRIVEWAY FACING FORWARD WITH PUMPING BOOM EXTENDED OVER PROPOSED POOL LOCATION FOR ACCESS TO POOL AND WALLS
6. NO FUELING OF MACHINERY SHALL OCCUR WITHIN REGULATED AREA. IN THE EVENT THAT SMALL EQUIPMENT NEEDS TO BE REFUELED, IT SHALL OCCUR ON EXISTING ASPHALT DRIVEWAY WITH NECESSARY PRECAUTIONS AS REQUIRED BY THE SPILL PLAN
7. THE EXISTING SEWAGE DISPOSAL SYSTEM SHALL BE CORDONED OFF WITH ORANGE MESH CONSTRUCTION FENCE. NO PARKING OF VEHICLES, TRAFFIC, OR STORAGE OF MATERIAL SHALL OCCUR WITHIN THIS DESIGNATED AREA.
8. THE STAGING OF EQUIPMENT AND STORAGE OF ALL CONSTRUCTION MATERIAL SHALL OCCUR WITHIN THE DESIGNATED STAGING AREA, OUTSIDE OF REGULATED AREA.
9. FOR THE REMOVAL AND RELOCATION OF THE EXISTING ABOVE GROUND OIL TANK, A MANIFEST SHALL BE SUBMITTED AND SIGNED BY THE OWNER INDICATING THE PROPER REMOVAL OF ANY FUEL OIL IN THE TANK AND THAT ALL FEED AND RETURN LINES WERE PROPERLY REMOVED WITHIN THE REGULATED AREA.
10. THE OWNER ACKNOWLEDGES THAT THE TOWN OF CARMEL AND OTHER AGENCIES HAVING JURISDICTION SHALL HAVE THE RIGHT TO ENTER THE PROPERTY, AT REASONABLE TIMES AND IN A REASONABLE MANNER FOR PURPOSES OF INSPECTION IN CONSIDERATION OF THE ENVIRONMENTAL AREA.

"UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS DRAWING IS A VIOLATION OF SECTION 7209 (2) OF THE NEW YORK STATE EDUCATION LAW"

TOTAL AREA OF DISTURBANCE WITHIN TOWN REGULATED WETLAND BUFFER - 4,670 SF

SOIL TYPES WITHIN PROJECT AREA:
C.C - CHARLTON-CHATFIELD COMPLEX, ROLLING, VERY ROCKY

TOWN OF CARMEL NOTES

1 ANY CHANGES, ALTERATIONS, AND/OR MODIFICATIONS SHALL BE REVIEWED AND APPROVED BY THE BUILDING INSPECTOR AND/OR TOWN ENGINEER AND/OR DEP, PRIOR TO PERFORMING SUCH WORK.

2 APPLICANT MUST NOTIFY TOWN OF CARMEL ENGINEERING DEPARTMENT AT LEAST 3 DAYS PRIOR TO THE COMMENCEMENT OF ANY WORK ON THE SITE. CONTACT NUMBER IS 845-628-1500 EX. 143

3 PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY, THE ENGINEER SHALL ISSUE A "CERTIFICATE OF CONSTRUCTION COMPLIANCE" INDICATING THAT ALL IMPROVEMENTS SHOWN ON THE APPROVED INTEGRATED PLOT PLAN (IPP) HAVE BEEN COMPLETED SUBSTANTIALLY IN COMPLIANCE WITH THE SAME.

LEGEND

X DENOTES TREES TO BE REMOVED

—SF— SF DENOTES SILT FENCE

DENOTES LIMIT OF DISTURBANCE

DENOTES 100' WETLAND SETBACK

DENOTES GRAVEL ANTI-TRACKING PAD

PLAN SCALE 1"= 20'

REVISIONS

NO.	DATE	BY	DESCRIPTION
4	8/14/16	JRM	USACOE REPORT
5	12/2/16	JRM	DEP REVIEW
6	1/30/17	JRM	DEP REVIEW DATED 1/27/17
7	2/23/17	JRM	DEP REVIEW
8	3/6/17	JRM	TOWN ENGINEER REVIEW DATED 6/9/16

SITE PLAN

LOBEL RESIDENCE POOL
8 FAIRY LANE
TOWN OF CARMEL
PUTNAM COUNTY, NEW YORK

DRAWN BY: MAG | CHECKED BY: FJG

KEANE COPPELMAN GREGORY
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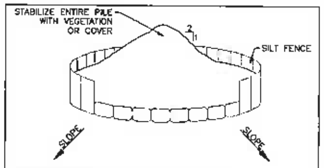
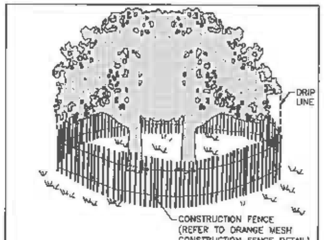
WWW.KCGENGINEERS.COM

DATE: 12/03/2015 | SHEET 2 OF 3

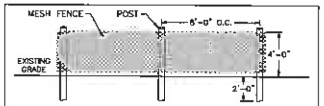


INSTALLATION NOTES:
1) AREA CHOSEN FOR STOCKPILING SHALL BE DRY AND STABLE
2) MAXIMUM SLOPE OF STOCKPILE SHALL BE 1:2
3) UPON COMPLETION OF SOIL STOCKPILE, EACH PILE SHALL BE SURROUNDED WITH SILT FENCING, THEN STABILIZED WITH VEGETATION OR COVERED
4) SEE SPECIFICATIONS FOR INSTALLATION OF SILT FENCE

SOIL STOCKPILING DETAIL
SCALE: NTS

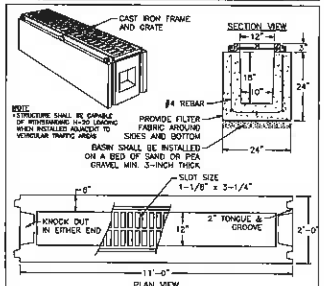


TREE PROTECTION DETAIL
SCALE: NTS



INSTALLATION NOTES:
1) MESH TO BE PLACED ON "OUTSIDE" FACE OF POST TO RENDER NON-CLIMABLE
2) MESH COLOR TO BE BLAZE ORANGE

TYPICAL ORANGE MESH CONSTRUCTION FENCE
SCALE: NTS



NOTE
* STRUCTURE SHALL BE CAPABLE OF WITHSTANDING H-20 LOADING WHEN INSTALLED ADJACENT TO VEHICULAR TRAFFIC AREAS

SPECIFICATIONS
CONCRETE MIN. STRENGTH: 4,000 PSI AT 28 DAYS
REINFORCEMENT: #4 REBAR / ASTM A615
AIR ENTRAINMENT: 5%

INSTALLATION NOTES:
1) ALL STRUCTURES MUST BE WATERTIGHT, STRUCTURAL SOUND, DURABLE AND NOT SUBJECT TO CORROSION, DECAY, FROST ACTION OR CRACKING
2) PRECAST CONCRETE STRUCTURES SHALL BE INSTALLED LEVEL AND FIRMLY BEDDED ON SAND OR PEA GRAVEL MINIMUM 3-INCH THICK

PRECAST CONCRETE TRENCH DRAIN INLET
SCALE: NTS

POOL TREATMENT SYSTEM & DRAWDOWN
1. POOL WILL UTILIZE A SALT CHLORINE GENERATOR DISINFECTION SYSTEM.
2. POOL WILL CONSIST OF A SELF CONTAINED LOOPED CARTRIDGE FILTRATION SYSTEM AND WILL NOT REQUIRE ANY BACKWASHING.
3. POOL WATER SHALL NOT BE TREATED FOR TEN DAYS PRIOR TO WINTER DRAWDOWN.
4. WINTER DRAWDOWN WILL REQUIRE LOWERING WATER LEVEL 18 INCHES TO EXPOSE TILE BAND AND ALLOW FOR DRAINING OF CIRCULATION LINES
5. UNTREATED WATER WILL BE DIRECTED TO THE STORMWATER PRACTICE.
6. POOL IS EQUIPPED WITH AN AUTOMATIC POOL COVER WHICH WILL CLOSE THE POOL FOR THE WINTER.

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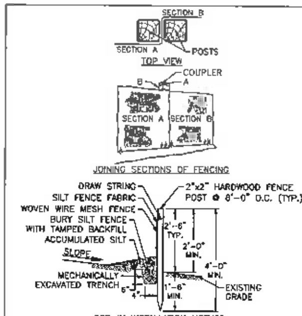


SILT FENCE SPECIFICATIONS:
1) USE AMCO FABRICS SILT SCREEN OR EQUAL SUBJECT TO APPROVAL BY ENGINEER
2) THE STANDARD SILT FENCE CONFIGURATION IS RECOMMENDED FOR MOST APPLICATIONS IN WESTCHESTER COUNTY. EXTRA STRENGTH SYNTHETIC FILTER FABRIC, OR STANDARD STRENGTH FILTER FABRIC WITH WOVEN WIRE MESH FENCE SUPPORT MAY BE USED. SILT FENCES SHOULD BE USED ONLY WHERE SHEET OR OVERLAND FLOWS ARE EXPECTED
3) THE HEIGHT OF A SILT FENCE SHALL NOT EXCEED 36-INCHES (HIGHER FENCES MAY IMPOUND VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE)
4) CONTINUOUS LENGTHS OF FILTER FABRIC SHOULD BE USED TO MINIMIZE THE NUMBER OF JOINTS NEEDED. WHEN JOINTS ARE NECESSARY, FILTER FABRIC SHALL BE SPLICED TOGETHER AT A SUPPORT POST ONLY, WITH A MINIMUM 6-INCH OVERLAP, AND SEALED SECURELY
5) POSTS SHALL BE INSTALLED NO LESS THAN 8-FEET APART, AND DRIVEN TO A MINIMUM DEPTH OF 18-INCHES. POSTS MAY BE SPACED 10-FEET APART IF THE FILTER FABRIC IS SUPPORTED BY WOVEN WIRE MESH
6) WOVEN WIRE MESH SUPPORT, WHEN USED, SHOULD BE SECURED TO THE POSTS WITH HEAVY DUTY 1-INCH WIRE STAPLES, TIE WIRES, OR HOG RINGS; THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2-INCHES
7) FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE POSTS. STAPLES SHALL BE PLACED A MINIMUM OF 2-INCHES APART
8) FILTER FABRIC SHALL EXTEND INTO AND COVER THE BOTTOM OF THE 6-INCH DEEP BY 4-INCH WIDE MECHANICALLY EXCAVATED TRENCH. THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE FILTER FABRIC
9) WHEN SILT FENCE LENGTHS EXCEED ONE-HUNDRED FEET, EACH 100-FOOT SECTION SHOULD TERMINATE IN AN END SEGMENT THAT CURVES UP SLOPE TO INTERCEPT CONCENTRATED RUNOFF. THE "HOOK" SHOULD JOIN AT THE LINEAR PORTION OF THE NEXT SILT FENCE SEGMENT. THIS DESIGN MAXIMIZES SEDIMENT CAPTURE AND PREVENTS THE ACCUMULATION OF RUNOFF ALONG THE UP SLOPE SIDE OF THE SILT FENCE
10) SILT FENCES SHALL BE MAINTAINED UNTIL ALL UP SLOPE AREAS OF SOIL DISTURBANCE HAVE BEEN THOROUGHLY AND PERMANENTLY STABILIZED
11) PRIOR TO THE COMMENCEMENT OF ANY SOIL DISTURBANCE ACTIVITIES, ALL SILT FENCING DOWN SLOPE OF DISTURBANCE AREA(S) SHALL BE IN PLACE AS INDICATED ON THE PLANS

TIMING:
1) SILT FENCES SHALL BE INSTALLED PRIOR TO ANY SOIL DISTURBANCE ACTIVITIES ON-SITE. SILT FENCE SHALL REMAIN IN PLACE UNTIL THE UPLAND CONTRIBUTING AREA(S) IS THOROUGHLY AND PERMANENTLY STABILIZED. THE EFFECTIVE FUNCTIONAL TIME FRAME OF A SYNTHETIC FABRIC SILT FENCE IS APPROXIMATELY 6 MONTHS

MAINTENANCE:
1) SILT FENCES SHALL BE INSPECTED WITHIN 12 HOURS AFTER EACH SIGNIFICANT RAINFALL EVENT (GREATER THAN 0.5-INCH OF RAINFALL) AND AT LEAST DAILY DURING PROLONGED RAINFALL. INSPECTION OF SILT FENCE FOR PHYSICAL DAMAGE (WHICH MAY RESULT FROM CONSTRUCTION ACTIVITIES, FALLEN BRANCHES, ANIMAL ACTIVITY, VANDALISM, ETC.) SHALL BE MADE WEEKLY. IF FILTER FABRIC SHOWS SIGNS OF DECOMPOSITION DUE TO AGE OR IS DAMAGED, REPAIRS AND OR REPLACEMENT SHALL BE MADE WITHIN 12 HOURS
2) SEDIMENT DEPOSITION SHALL BE REMOVED AFTER EACH SIGNIFICANT RAINFALL EVENT OR WHENEVER THE DEPOSITS EXCEED 1/3 THE HEIGHT OF THE ABOVE GRADE PORTION OF THE SILT FENCE
3) ALL SEDIMENT DEPOSITION REMAINING AFTER REMOVAL OF THE SILT FENCE SHALL BE IMMEDIATELY GRADED AND SEEDED. CONTAMINATED SEDIMENT DEPOSITS SHALL BE DISPOSED OF IN ACCORDANCE WITH APPLICABLE REGULATIONS

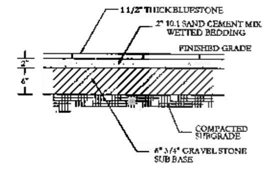
RAIN GARDEN – WATER QUALITY VOLUME (WQV) CALCULATIONS:

BASED ON HYDROCAD REPORT, REQUIRED VOLUME = 0.006 ACRE FEET = 261.36 CU. FT.

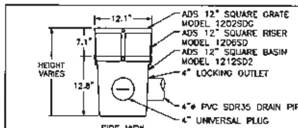
ARG = AREA OF RAIN GARDEN = 405 SQUARE FEET
DSM = DEPTH OF SOIL MEDIA = 1 FOOT
PSM = POROSITY OF SOIL MEDIA = 0.2
VSM = VOLUME OF SOIL MEDIA = (405)(1)(0.2) = 81 CUBIC FEET
DDL = DEPTH OF DRAINAGE LAYER = 0.5 FEET
PDL = POROSITY OF DRAINAGE LAYER = 0.4
VDL = VOLUME OF DRAINAGE LAYER = (405)(0.5)(0.4) = 81 CUBIC FEET
DP = PONDING DEPTH = 0.25 FEET

WQV OF RAIN GARDEN = VSM + VDL + (DP * ARG)
= 81 + 81 + (0.25 * 405)
WQV OF RAIN GARDEN = 263.25 CUBIC FT

REQUIRED < AVAILABLE
261.36 CU. FT. < 263.25 CU. FT.

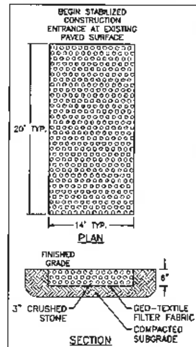


BLUESTONE TERRACE SECTION
SCALE: NTS



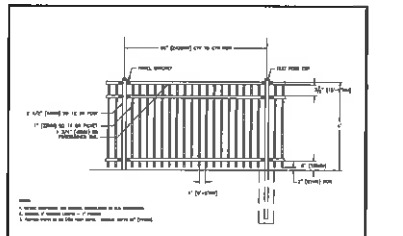
INSTALLATION NOTES
1. BASE TO BE FIRMLY BEDDED ON A 6" THICK LAYER OF CRUSHED STONE OR PEA GRAVEL
2. PROVIDE RISER(S) AS NECESSARY
3. REFER TO PLAN FOR SIZE AND INVERTS OF PIPING
3. GRATE OR LID MUST BE INSTALLED PRIOR TO BACKFILLING

ADS DRAINTECH SQUARE BASIN DRAIN INLETS
SCALE: NTS



INSTALLATION NOTES:
1) STONE SIZE – USE 3-INCH CRUSHED STONE OR RECLAIMED/RECYCLED CONCRETE EQUIVALENT
2) LENGTH – AS REQUIRED, BUT NOT LESS THAN 50-FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 20-FOOT MINIMUM LENGTH WOULD APPLY)
3) THICKNESS – NOT LESS THAN 6-INCHES
4) WIDTH – 20-FOOT (14-FOOT FOR SINGLE RESIDENCE LOT) MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCUR
5) FILTER CLOTH – WILL BE PLACED OVER THE ENTIRE AREA (FILTER CLOTH WILL NOT BE REQUIRED ON A SINGLE FAMILY RESIDENCE LOT) PRIOR TO PLACING OF STONE
6) SURFACE WATER – ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED
7) MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT OF WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT OF WAY MUST BE REMOVED THOROUGHLY.
8) WASHING – WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT OF WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE
9) PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL OCCUR AFTER EACH RAINFALL EVENT

STABILIZED CONSTRUCTION ENTRANCE
SCALE: NTS



ORNAMENTAL IRON POOL FENCE DETAIL (TYPICAL)
NTS

BEFORE THE START OF CONSTRUCTION:
1. THE CONTRACTOR SHALL NOTIFY THE TOWN OF CARMEL; WETLAND INSPECTOR, BUILDING INSPECTOR, TOWN ENGINEER, AND NYCDEP ON INTENTION TO COMMENCE WORK.
2. THE SURVEYOR SHALL STAKE OUT THE LIMIT OF DISTURBANCE LINE.
3. THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING ON SITE WITH THE WETLAND INSPECTOR, TOWN ENGINEER, AND BUILDING INSPECTOR TO DISCUSS THE LIMIT OF DISTURBANCE, THE CONSTRUCTION SEQUENCE AND SCHEDULE, AND EROSION CONTROL MEASURES.
4. THE CONTRACTOR SHALL PROCEED WITH CONSTRUCTION ACTIVITY ACCORDING TO THE SEQUENCE OUTLINED BELOW ONLY AFTER ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES, AND SPILL PREVENTION MEASURES HAVE BEEN PUT IN PLACE AS SHOWN ON THE SITE PLAN, SHEET 2 OF 3.
5. THERE WILL BE NO STOCKPILING OF MATERIAL OR ROCK CRUSHING ON SITE.
6. CONTRACTOR SHALL CORDON OFF EXISTING SEPTIC SYSTEM AND WELL FOR PROTECTION DURING CONSTRUCTION. CONSTRUCTION FENCE SHALL BE INSTALLED ALONG LIMIT OF DISTURBANCE LINE TO MINIMIZE DISTURBANCE AND PROTECT EXISTING SEPTIC AREA AND WELL.
7. EXISTING TREES INDICATED FOR REMOVAL SHALL BE FELLED AND CUT INTO SMALL PIECES AND REMOVED OFF SITE. BRANCHES ARE TO BE CHIPPED, CAST INTO TRUCK, AND REMOVED OFF-SITE.
8. EROSION AND SEDIMENT CONTROLS TO BE INSTALLED ALONG LAKE EDGES AS INDICATED ON PLAN. MEASURES TO INCLUDE SILT FENCE AND STAKED HAYBALES AS PER PLAN.
9. SPILL KITS ARE TO BE PLACED IN THEIR RESPECTIVE AREAS. OIL-ONLY BOOMS FROM SPILL KIT ARE TO BE PLACED AND SECURED ON THE LAKE TO CONTAIN ANY POTENTIAL OIL SPILLS OR DEBRIS CAST INTO THE WATER.
10. ONCE EROSION CONTROL MEASURES AND SPILL PREVENTION MEASURES/KITS ARE IN PLACE, THE WETLAND INSPECTOR SHALL MAKE AN INSPECTION PRIOR TO THE START OF CONSTRUCTION.

CONSTRUCTION SEQUENCE

1. CONTRACTOR SHALL PREPARE CONSTRUCTION ENTRANCE AND INSTALL GRAVEL ANTI TRACKING PAD AT ENTRANCE PRIOR TO CLEARING ACTIVITY. DUMPSTERS TO BE PLACED WITHIN EXISTING DRIVEWAY FOR LOADING OF STUMPS AND DEBRIS TO BE REMOVED. INSTALL A WOOD CHIP BERM AT LOW END OF DUMPSTER FOR ANY IN-BOX RUNOFF.
2. INSTALL SEDIMENT CONTROL MEASURES AS INDICATED ON THE SITE PLAN, SHEET 2 OF 3. MEASURES SHALL INCLUDE INLET PROTECTION FOR ANY CATCH BASIN/INLETS LOCATED DOWNHILL OF CONSTRUCTION AREA INCLUDING THOSE ON FAIRY LANE AND WITHIN DRIVEWAY ON THE NORTHERN SIDE OF THE PROPERTY.
3. CONTRACTOR SHALL BEGIN SITE EARTH WORK BY CREATING ACCESS TO LOWER STAGING AREA IN LAWN, STRIPPING LOOSE MATERIAL OFF SLOPE BY COMBING POOL AND WALL AREA TO EXPOSE BEDROCK. LOOSE MATERIAL AND STONE SHALL BE PULLED INTO LAWN AREA CREATING BERM/PAD BY WHICH MACHINERY WILL BE STAGED TO BEGIN ROCK REMOVAL.
4. THE EXISTING STONE WALL AT THE END OF THE DRIVEWAY SHALL BE REMOVED WITH A TEMPORARY SAFETY BARRIER FENCE INSTALLED FOR FALL PROTECTION.
5. ROCK TO BE SPALLED WITH HAMMER TOWARD BASE OF MACHINE. THE STAGING PAD ELEVATION SET AT HEIGHT IN ORDER FOR EXCAVATOR TO REACH CHIPPED ROCK FROM LAWN AREA AND CAST INTO TRUCKS IN DRIVEWAY FOR REMOVAL. ROCK CHIPPING AND REMOVAL SHALL CONTINUE TO A DEPTH OF 6" BELOW WALL FOOTING ELEVATION AND 1'-0" BELOW BOTTOM OF POOL ELEVATION. ALL EXCAVATED MATERIAL TO BE REMOVED FROM SITE.
6. CONSTRUCTION ON WALL TO BEGIN BY FORMING FOOTINGS, PLACING STEEL REINFORCING AND POURING CONCRETE.
7. ONCE WALL FOOTINGS ARE INSTALLED, CONTRACTOR TO EXCAVATE FOR POOL SHELL. INSTALL GRAVEL BEDDING AT BASE. PLACE FORMS, INSTALL STEEL, AND INSTALL PLUMBING AND ELECTRICAL CONDUIT.
8. SIMULTANEOUSLY, CONTRACTOR TO INSTALL FORMWORK, STEEL AND CONDUITS FOR RETAINING WALLS. POUR CONCRETE FOR WALL.
9. STRIP RETAINING WALL FORMS. PREPARE ADJACENT AREA FOR POOL CONSTRUCTION AND GUNITE POOL.
10. CONTRACTOR TO INSTALL STONE VENEER ON WALL AND CONSTRUCT LOWER RETAINING WALL ALONG FRONT OF POOL. WHEN MASONRY WALL WORK COMPLETE, CONTRACTOR TO INSTALL POOL COPING.
11. INSTALL TERRACE DRAIN INLETS. CONSTRUCT POOL TERRACE. DRAIN LINE DIRECTED TOWARD RAIN GARDEN TO BE TEMPORARILY CAPPED UNTIL TERRACE AREA IS STABILIZED.
12. LOWER LAWN AREA TO BE PREPARED FOR RAIN GARDEN CONSTRUCTION AND RESTORATION. EXCESS ROCK AND CONSTRUCTION MATERIAL TO BE REMOVED FROM LOWER LAWN AREA. SOIL TO BE SCARIFIED AND PREPARED FOR CONSTRUCTION OF RAIN GARDEN.
13. BEGIN RAIN GARDEN INSTALLATION BY EXCAVATING TO REQUIRED DEPTH AND PLACING GRAVEL LAYER. PLACE UNDERDRAIN AND OUTLET PIPING IN GRAVEL BED. INSTALL PERIMETER BERM AROUND RAIN GARDEN. AT COMPLETION OF BERM, INSTALL PLANTINGS.
14. INSTALL FILTER MEDIA LAYER AS PER RAIN GARDEN SPECIFICATIONS. REFER TO CONSTRUCTION DETAILS AS INDICATED IN PLAN SET.
15. INSTALL PLANTING MATERIAL AT POOL AREA AND THOSE FOR SCREENING.
16. SPREAD TOPSOIL IN LOWER LAWN AREA, SEED AND MULCH.
17. REMOVE ACCESS ROAD AND RESTORE ALL DISTURBED AREAS WITH TOPSOIL AND SEED, LANDSCAPE AS PER LANDSCAPING PLAN.
18. INSTALL ABOVE GROUND OIL TANK IN NEW LOCATION. CONSTRUCT TANK PAD AND CONTAINMENT AREA. RUN FEED LINES INTO DWELLING.
19. CONTRACTOR TO PLACE MULCH IN RAIN GARDEN AND INSTALL PLANTINGS AS PER LANDSCAPE PLAN.
20. ALLOW SITE TO STABILIZE. STABILIZATION MEANS ALL SOIL DISTURBANCE ACTIVITIES HAVE CEASED AND A UNIFORM, PERENNIAL VEGETATIVE COVER WITH A DENSITY OF 80% OVER THE ENTIRE PERVIOUS SURFACE HAS BEEN ESTABLISHED. UPON ACHIEVING REQUIRED STABILIZATION STANDARD, UNPLUG DRAIN LINE FEEDING RAIN GARDEN AND PLACE "ON-LINE." SURFACE WATER WITHIN BOOM AREA TO BE SKIMMED AND ALONG WITH BOOM, MATERIAL TO BE DISCARDED. REMOVE CONSTRUCTION FENCING.
21. THE WETLAND INSPECTOR SHALL INSPECT THE SITE TO VERIFY THAT THE WORK IS COMPLETE AND THE SITE IS STABLE BEFORE THE EROSION CONTROL MEASURES ARE TO BE REMOVED.

SPILL PREVENTION PLAN:
SPILL PLAN GOES INTO EFFECT AT SUCH TIME CONSTRUCTION IS STARTED AS STATED IN CONSTRUCTION SEQUENCE.

RESPONSIBLE PERSONS:
MARK LOBEL, OWNER
POOL CONTRACTOR, TBD

RESPONSIBILITIES
RESPONSIBLE PERSON IS REQUIRED TO COORDINATE RESPONSE TO EMERGENCY.
SUPERVISORS SHALL ENSURE THAT EMPLOYEES ARE FAMILIAR WITH THE PROCEDURE AND RECEIVE NECESSARY TRAINING.
EMPLOYEES MUST FOLLOW PROCEDURES IN THE EVENT OF A SPILL.

EMERGENCY CONTACT NUMBERS
EMERGENCY SERVICES: 911
NYS SPILL HOTLINE: 1-800-457-7362

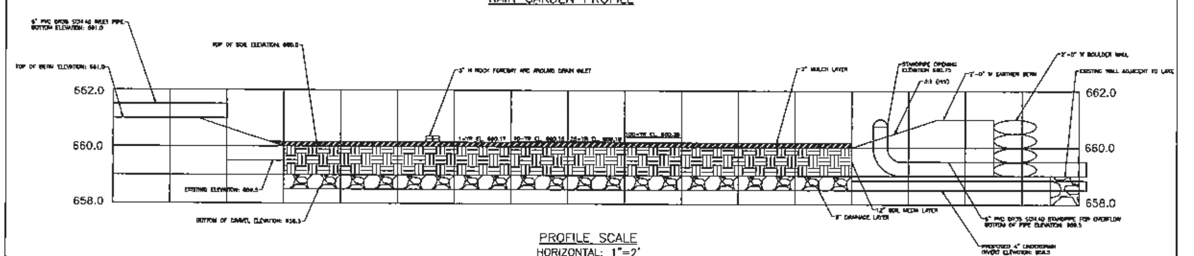
EMPLOYEES SHOULD CLEAN SPILLS ONLY IF PROPERLY TRAINED AND PROTECTED. OTHERWISE, THEY SHOULD REPORT ANY SPILL TO RESPONSIBLE PERSONS AND WARN OTHER EMPLOYEES.

EVACUATION
PERSONS IN THE IMMEDIATE VICINITY SHOULD EVACUATE THE PREMISES IF THE SPILL POSES AN IMMEDIATE HEALTH HAZARD. IF THE SPILL IS OF MEDIUM OR LARGE SIZE, OR HAZARDOUS, EMERGENCY RESPONSE PERSONNEL SHOULD BE NOTIFIED IMMEDIATELY. THE SPILLED MATERIAL SHOULD ALSO BE IDENTIFIED.
SMALL SPILL = < 2' AT MAJOR DIMENSION
MEDIUM SPILL = 2' TO 6' AT MAJOR DIMENSION
LARGE SPILL = > 6' AT MAJOR DIMENSION

SPILL CONTROL TECHNIQUES & CLEAN-UP
THE EMPLOYEE NEEDS TO DECIDE IF THE SPILL IS SMALL ENOUGH TO HANDLE WITHOUT OUTSIDE ASSISTANCE. ONLY EMPLOYEES WITH TRAINING IN SPILL RESPONSE SHOULD ATTEMPT TO CONTAIN OR CLEAN THE SPILL.
1. SPILL RESPONSE TEAM SHOULD BARRICADE THE SPILL AREA, DISCONNECT ALL SOURCES OF IGNITION AND CONTACT THE FIRE DEPARTMENT IF THE CHEMICAL IS FLAMMABLE.
2. PROPER PERSONAL PROTECTIVE EQUIPMENT SHALL BE WORN. IN ADDITION, THE EMPLOYEE IS TO BE AWARE OF THE HAZARDS ASSOCIATED WITH THE SPILL AND HAVE ADEQUATE VENTILATION.
3. CONTAIN THE SPILL.
4. CLEAN THE SPILL.
5. DISPOSE OF THE SPILL IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.

REPORTING SPILLS
ALL CHEMICAL SPILLS, REGARDLESS OF SIZE, SHOULD BE REPORTED AS SOON AS POSSIBLE TO A RESPONSIBLE PERSON. THE RESPONSIBLE PERSON WILL DETERMINE WHETHER THE SPILL HAS THE POTENTIAL TO AFFECT THE ENVIRONMENT AND MUST BE REPORTED TO 911 OR THE NYS SPILL HOTLINE.

RAIN GARDEN PROFILE



PROFILE SCALE
HORIZONTAL: 1"=2'
VERTICAL: 1"=2'

PETER J GREGORY, PE LIC # 07528

REVISIONS

NO	DATE	BY	DESCRIPTION
2	4/8/16	JRM	ECB COMMENTS FROM MEETING 3/3/16
3	5/15/16	JRM	USACOE REPORT
4	1/30/17	JRM	DEP REVIEW DATED 1/27/17
5	2/23/17	JRM	DEP REVIEW
6	3/8/17	JRM	TOWN ENGINEER REVIEW DATED 6/9/16

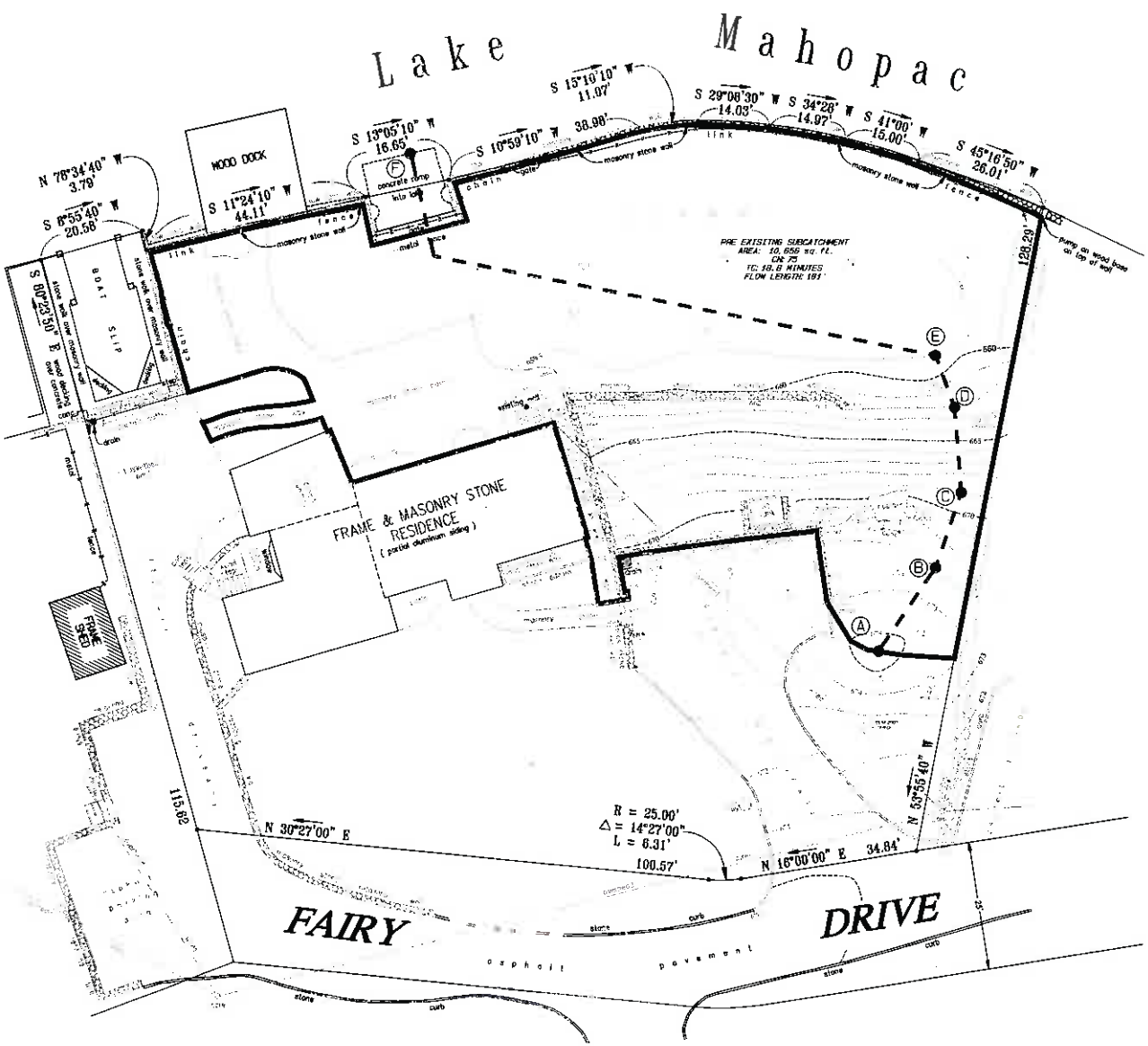
CONSTRUCTION DETAILS

LOBEL RESIDENCE POOL
8 FAIRY LANE
TOWN OF CARMEL
PUTNAM COUNTY, NEW YORK

DRAWN BY: MAG | CHECKED BY: PJG

KEANE COPPELMAN GREGORY ENGINEERS, P.C.
CIVIL & ENVIRONMENTAL CONSULTANTS
113 SMITH AVENUE MOUNT KISCO, NEW YORK 10549
T: (914) 241-2235 F: (914) 241-6787
WWW.KCGENGINEERS.COM

DATE 12/30/2015 SHEET 3 OF 3



PLAN SCALE: 1"= 10'

PETER J. GREGORY, PE LIC # 071526

REVISIONS

NO	DATE	BY	DESCRIPTION
1	1/30/17	JRM	DEP REVIEW DATED 1/27/17
2	2/22/17	JRM	DEP REVIEW
3	5/8/17	JRM	TOWN ENGINEER REVIEW DATED 6/9/16
4			
5			

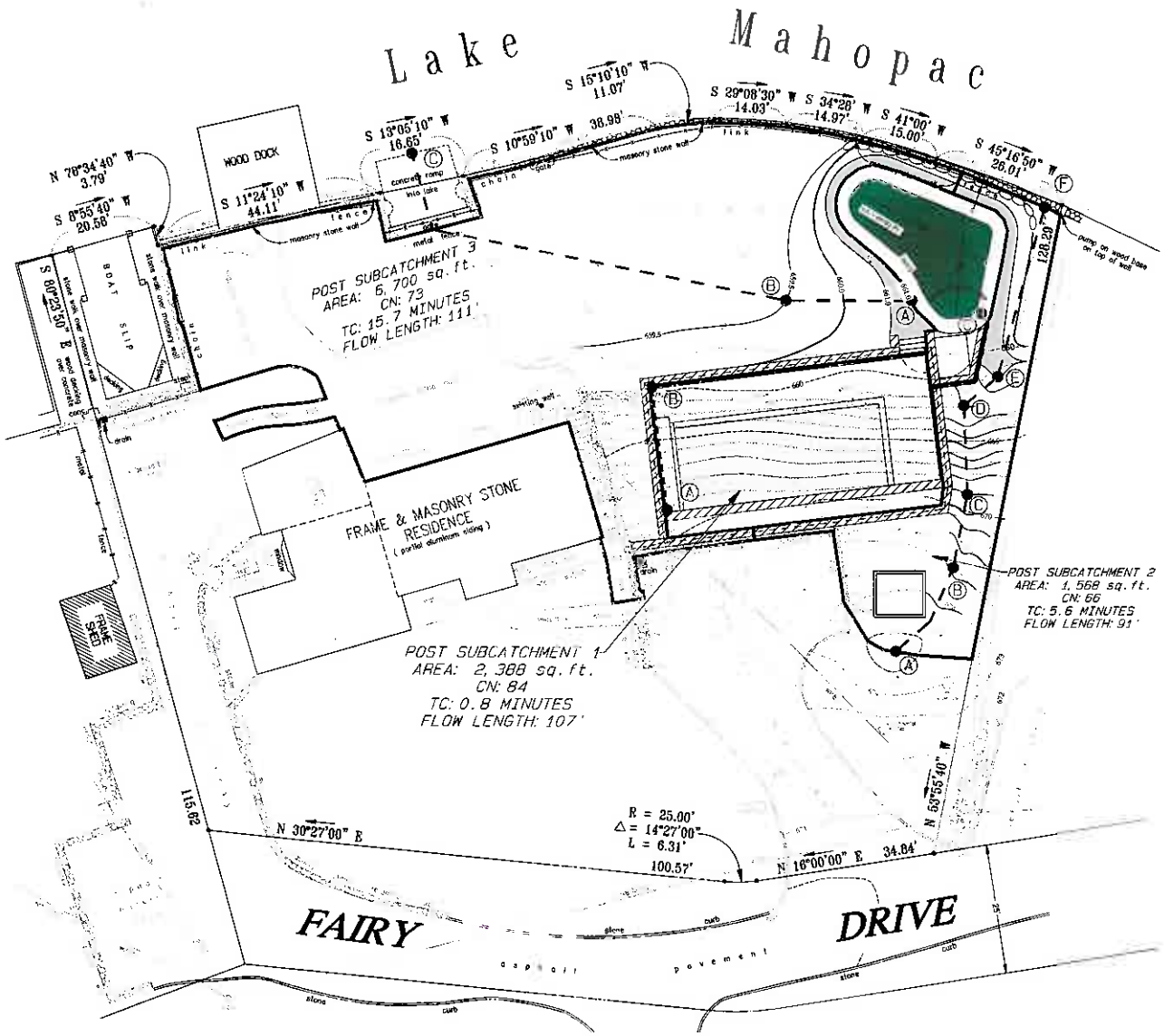
PRE-DEVELOPMENT DRAINAGE MAP

LOBEL RESIDENCE POOL
8 FAIRY LANE
TOWN OF CARMEL
PUTNAM COUNTY, NEW YORK

DRAWN BY MAG | CHECKED BY PJG

KEANE COPPELMAN GREGORY
ENGINEERS, P.C.
CIVIL & ENVIRONMENTAL CONSULTANTS
113 SMITH AVENUE MOUNT KISCO, NEW YORK 10549
T: (914) 241-2295 F: (914) 241 4787
WWW.KCGENGINEERS.COM

DATE 9/16/2016 | SHEET



PLAN SCALE 1" = 10'

PETERS GREGORY, P.E. LLC & KCGE

REVISIONS

NO	DATE	BY	DESCRIPTION
1	1/30/17	JRM	DEP REVIEW DATED 1/27/17
2	2/23/17	JRM	DEP REVIEW
3	3/8/17	JRM	TOWN ENGINEER REVIEW DatED 6/9/16
4			
5			

POST DEVELOPMENT DRAINAGE MAP

LOBEL RESIDENCE POOL
8 FAIRY LANE
TOWN OF CARMEL
PUTNAM COUNTY, NEW YORK

DRAWN BY: MAG | CHECKED BY: PJG

KEANE COPPELMAN GREGORY
ENGINEERS, P.C.
CIVIL & ENVIRONMENTAL CONSULTANTS
113 SOUTH AVENUE MOUNT KISCO, NEW YORK 10549
T: (914) 241-2255 F: (914) 241-6707
WWW.KCGENGINEERS.COM

DATE: 9/16/2016 | SHEET

New York State Department of Environmental Conservation
Division of Water
625 Broadway, 4th Floor
Albany, New York 12233-3505

MS4 Stormwater Pollution Prevention Plan (SWPPP) Acceptance Form

for

Construction Activities Seeking Authorization Under SPDES General Permit

*(NOTE: Attach Completed Form to Notice Of Intent and Submit to Address Above)

I. Project Owner/Operator Information	
1. Owner/Operator Name:	8 Fairy Island, LLC
2. Contact Person:	Mark Lobel
3. Street Address:	8 Fairy Lane
4. City/State/Zip:	Mahopac, New York 10541
II. Project Site Information	
5. Project/Site Name:	Lobel Residence Pool
6. Street Address:	8 Fairy Lane
7. City/State/Zip:	Mahopac, New York 10541
III. Stormwater Pollution Prevention Plan (SWPPP) Review and Acceptance Information	
8. SWPPP Reviewed by:	Richard J. Franzetti
9. Title/Position:	Town Engineer
10. Date Final SWPPP Reviewed and Accepted:	3/13/17
IV. Regulated MS4 Information	
11. Name of MS4:	Town of Carmel
12. MS4 SPDES Permit Identification Number: NYR20A	094
13. Contact Person:	Richard J. Franzetti
14. Street Address:	60 Mc Alpin Ave.
15. City/State/Zip:	Mahopac, NY 10541
16. Telephone Number:	845 628 2087

(NYS DEC - MS4 SWPPP Acceptance Form - January 2010)

MS4 SWPPP Acceptance Form - continued

V. Certification Statement - MS4 Official (principal executive officer or ranking elected official) or Duly Authorized Representative

I hereby certify that the final Stormwater Pollution Prevention Plan (SWPPP) for the construction project identified in question 5 has been reviewed and meets the substantive requirements in the SPDES General Permit For Stormwater Discharges from Municipal Separate Storm Sewer Systems (MS4s).
Note: The MS4, through the acceptance of the SWPPP, assumes no responsibility for the accuracy and adequacy of the design included in the SWPPP. In addition, review and acceptance of the SWPPP by the MS4 does not relieve the owner/operator or their SWPPP preparer of responsibility or liability for errors or omissions in the plan.

Printed Name:	Richard Franzetti
Title/Position:	Town Engineer
Signature:	[illegible]
Date:	3/13/17

VI. Additional Information

ROBERT LAGA
Chairman

NICHOLAS FANNIN
Vice-Chairman

ROSE TROMBETTA
Secretary

TOWN OF CARMEL
ENVIRONMENTAL CONSERVATION BOARD

60 McAlpin Avenue
Mahopac, New York 10541
Tel. (845) 628-1500 - Ext. 190
www.ci.carmel.ny.us

BOARD MEMBERS

Edward Barnett
Vincent Turano
John Starace

APPLICATION FOR WETLAND PERMIT OR LETTER OF PERMISSION

Name of Applicant: Harry Stevens

Address of Applicant: 103 Hill st **Email:**

Telephone# **Name and Address of Owner if different from Applicant:**

Property Address: 103 Hill St. Mahopac NY 10541 **Tax Map #** [redacted] 64.18-1-23
Agency Submitting Application if Applicable:
Location of Wetland: Front of house near road
Size of Work Section & Specific Location: 40 x 30 Attached to right side of house
Will Project Utilize State Owned Lands? If Yes, Specify: NO

Type and extent of work (feet of new channel, yards of material to be removed, draining, dredging, filling, etc). A brief description of the regulated activity (attach supporting details). Removing of existing garage and black top and buiding an attached 3 car garage [redacted] 40x30

Proposed Start Date: 2017 **Anticipated Completion Date:** 2017 **Fee Paid $** 225.00

****

CERTIFICATION

I hereby affirm under penalty of perjury that information provided on this form is true to the best of my knowledge and belief, false statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law. As a condition to the issuance of a permit, the applicant accepts full legal responsibility for all damage, direct or indirect, or whatever nature, and by whomever suffered, arising out of the project described here-in and agrees to indemnify and save harmless the Town of Carmel from suits, actions, damages and costs of every name and description resulting from the said project.

Harry Stevens
SIGNATURE

3/6/17
DATE

617.20
Appendix B
Short Environmental Assessment Form

Instructions for Completing

Part 1 - Project Information. The applicant or project sponsor is responsible for the completion of Part 1. 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.

Complete all items in Part 1. You may also provide any additional information which you believe will be needed by or useful to the lead agency; attach additional pages as necessary to supplement any item.

Part 1 - Project and Sponsor Information

Name of Action or Project:
[redacted] Building attached garage

Project Location (describe, and attach a location map):
103 Hill St Mahopac, NY 10541 [redacted]

Brief Description of Proposed Action:
Removing existing garage and blacktop and building a 3 car garage.

Name of Applicant or Sponsor:	Telephone: 914-804-8886
Harry Stevens	E-Mail: HS7865@verizon.net

Address:
103 Hill St [redacted]

City/PO:	State:	Zip Code:
Mahopac	NY	10541

	NO	YES
1. Does the proposed action only involve the legislative adoption of a plan, local law, ordinance, administrative rule, or regulation? If Yes, attach a narrative description of the intent of the proposed action and the environmental resources that may be affected in the municipality and proceed to Part 2. If no, continue to question 2.	✓	
2. Does the proposed action require a permit, approval or funding from any other governmental Agency? If Yes, list agency(s) name and permit or approval:	✓	

3.a. Total acreage of the site of the proposed action? .0275 [redacted] acres
b. Total acreage to be physically disturbed? .0275 [redacted] acres
c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? _____ acres

4. Check all land uses that occur on, adjoining and near the proposed action.
☐ Urban ☐ Rural (non-agriculture) ☐ Industrial ☐ Commercial ☑ Residential (suburban)
☐ Forest ☐ Agriculture ☐ Aquatic ☐ Other (specify): _____
☐ Parkland

	NO	YES	N/A
5. Is the proposed action,			
a. A permitted use under the zoning regulations?			✓
b. Consistent with the adopted comprehensive plan?			✓

	NO	YES
6. Is the proposed action consistent with the predominant character of the existing built or natural landscape?		✓
7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area? If Yes, identify:	✓	
8. a. Will the proposed action result in a substantial increase in traffic above present levels?	✓	
b. Are public transportation service(s) available at or near the site of the proposed action?	✓	
c. Are any pedestrian accommodations or bicycle routes available on or near site of the proposed action?	✓	
9. Does the proposed action meet or exceed the state energy code requirements? If the proposed action will exceed requirements, describe design features and technologies:		✓
10. Will the proposed action connect to an existing public/private water supply? If No, describe method for providing potable water: (well) None	✓	
11. Will the proposed action connect to existing wastewater utilities? If No, describe method for providing wastewater treatment: none	✓	
12. a. Does the site contain a structure that is listed on either the State or National Register of Historic Places?	✓	
b. Is the proposed action located in an archeological sensitive area?	✓	
13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain wetlands or other waterbodies regulated by a federal, state or local agency?		✓
b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody? If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres:	✓	

14. Identify the typical habitat types that occur on, or are likely to be found on the project site. Check all that apply:
☐ Shoreline ☐ Forest ☐ Agricultural/grasslands ☐ Early mid-successional
☑ Wetland ☐ Urban ☐ Suburban

	NO	YES
15. Does the site of the proposed action contain any species of animal, or associated habitats, listed by the State or Federal government as threatened or endangered?	✓	
16. Is the project site located in the 100 year flood plain?	✓	
17. Will the proposed action create storm water discharge, either from point or non-point sources? If Yes, a. Will storm water discharges flow to adjacent properties? ☑ NO ☐ YES	✓	
b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)? If Yes, briefly describe: ☑ NO ☐ YES		

	NO	YES
18. Does the proposed action include construction or other activities that result in the impoundment of water or other liquids (e.g. retention pond, waste lagoon, dam)? If Yes, explain purpose and size:	✓	
19. Has the site of the proposed action or an adjoining property been the location of an active or closed solid waste management facility? If Yes, describe:	✓	
20. Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or completed) for hazardous waste? If Yes, describe:	✓	

I AFFIRM THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE

Applicant/sponsor name: Harry Stevens Date: 3/8/17

Signature:

Part 2 - Impact Assessment. The Lead Agency is responsible for the completion of Part 2. Answer all of the following questions in Part 2 using the information contained in Part 1 and other materials submitted by the project sponsor or otherwise available to the reviewer. When answering the questions the reviewer should be guided by the concept "Have my responses been reasonable considering the scale and context of the proposed action?"

	No, or small impact may occur	Moderate to large impact may occur
1. Will the proposed action create a material conflict with an adopted land use plan or zoning regulations?		
2. Will the proposed action result in a change in the use or intensity of use of land?		
3. Will the proposed action impair the character or quality of the existing community?		
4. Will the proposed action have an impact on the environmental characteristics that caused the establishment of a Critical Environmental Area (CEA)?		
5. Will the proposed action result in an adverse change in the existing level of traffic or affect existing infrastructure for mass transit, biking or walkway?		
6. Will the proposed action cause an increase in the use of energy and it fails to incorporate reasonably available energy conservation or renewable energy opportunities?		
7. Will the proposed action impact existing: a. public / private water supplies?		
b. public / private wastewater treatment utilities?		
8. Will the proposed action impair the character or quality of important historic, archaeological, architectural or aesthetic resources?		
9. Will the proposed action result in an adverse change to natural resources (e.g., wetlands, waterbodies, groundwater, air quality, flora and fauna)?		

	No, or small impact may occur	Moderate to large impact may occur
10. Will the proposed action result in an increase in the potential for erosion, flooding or drainage problems?		
11. Will the proposed action create a hazard to environmental resources or human health?		

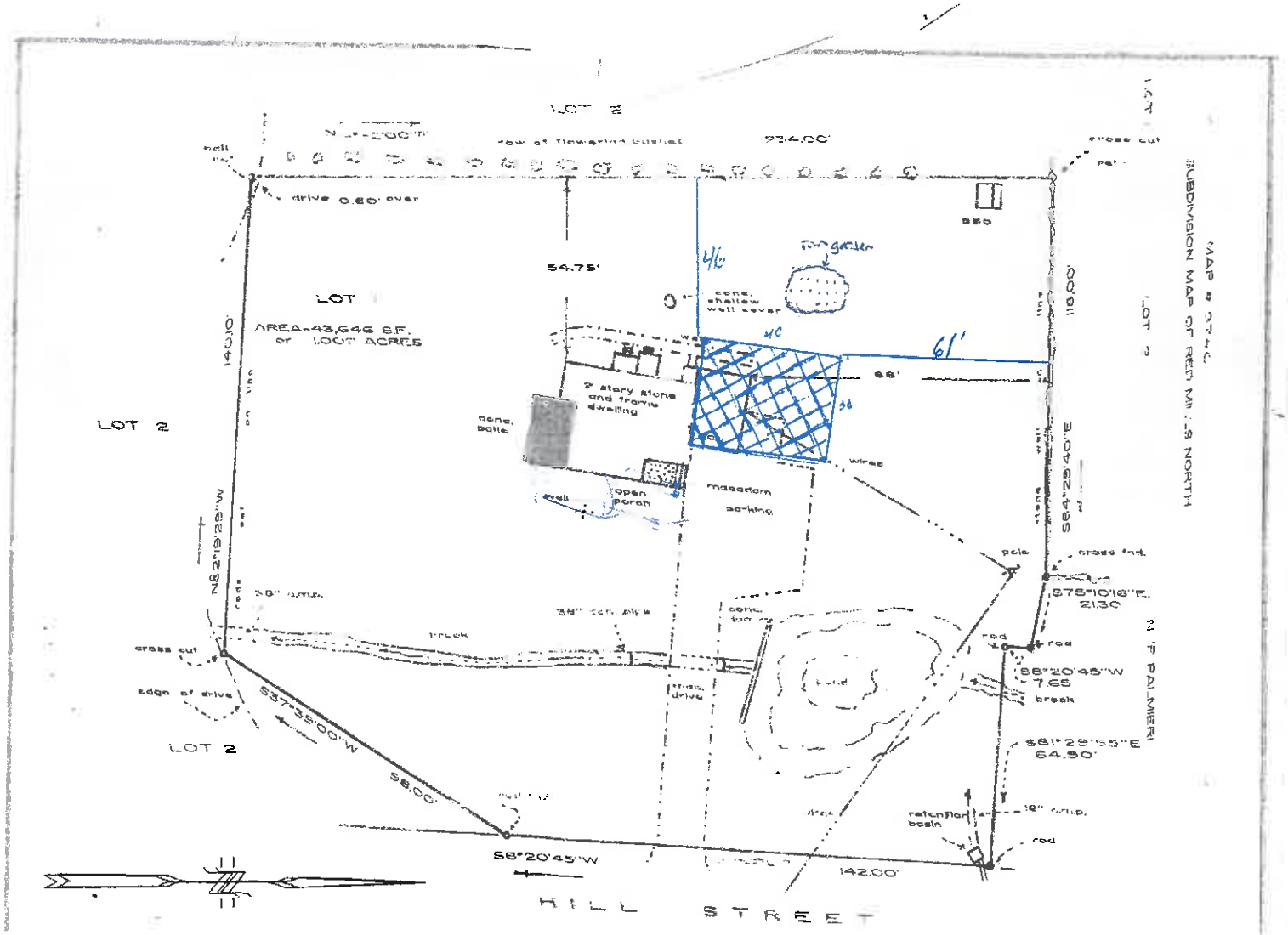
Part 3 - Determination of significance. The Lead Agency is responsible for the completion of Part 3. For every question in Part 2 that was answered "moderate to large impact may occur", or if there is a need to explain why a particular element of the proposed action may or will not result in a significant adverse environmental impact, please complete Part 3. Part 3 should, in sufficient detail, identify the impact, including any measures or design elements that have been included by the project sponsor to avoid or reduce impacts. Part 3 should also explain how the lead agency determined that the impact may or will not be significant. Each potential impact should be assessed considering its setting, probability of occurring, duration, irreversibility, geographic scope and magnitude. Also consider the potential for short-term, long-term and cumulative impacts.

☐ Check this box if you have determined, based on the information and analysis above, and any supporting documentation, that the proposed action may result in one or more potentially large or significant adverse impacts and an environmental impact statement is required.

☐ Check this box if you have determined, based on the information and analysis above, and any supporting documentation, that the proposed action will not result in any significant adverse environmental impacts.

Name of Lead Agency	Date
Print or Type Name of Responsible Officer in Lead Agency	Title of Responsible Officer
Signature of Responsible Officer in Lead Agency	Signature of Preparer (if different from Responsible Officer)

1=30


LOT 2
LOT
AREA-43,646 S.F.
or 1.00± ACRES
54.75'
140.10'
118.00'
23.4.00'
drive 0.60' over
2 story stone and frame dwelling
conc. pole
open porch
macadam parking
wires
pole
cross fnd.
S75°10'16"E.
21.30'
S64°29'40"E
S61°29'55"E
64.50'
S6°20'45"W
7.65
S6°20'45"W
142.00'
S37°35'00"W
58.00'
N82°19'28"W
cross cut
edge of drive
retention basin
HILL STREET
SUBDIVISION MAP OF REO MILLS NORTH
MAP # 3744
N. F. PALMIERI
4/6
61'
56'
66'
fan garden

From: Trombetta,Rose
To: Franzetti,Richard
Subject: 02-14-17 - Escrow Return for Moskowitz dock
Date: Tuesday, February 14, 2017 12:09:36 PM

Rose Trombetta

Planning Office
Carmel Town Hall
60 McAlpin Ave
Mahopac, NY 10541
845-628-1500 Ext. 190
Office Hours Mon – Wed 10:30 – 3:30 pm
Thurs – 11:30 – 3:00 pm
Fri – Closed

-----Original Message-----
From: JAY MOSKOWITZ [mailto:tipstrader@gmail.com]
Sent: Tuesday, February 14, 2017 12:02 PM
To: Trombetta,Rose
Subject: Escrow

Rose-

I have completed the work in constructing my dock at 47 Tyler Court in accordance with the permit which I received from the Town of Carmel Environmental Control Board in January 2016. Please return my $500 escrow fee to:

Jay Moskowitz
838 West End Ave
Apt 12B
New York, NY 10025

Thank you

Jay Moskowitz

Richard J.Franzetti, P.E.
Town Engineer

(845) 628-1500
(845) 628-2087
Fax (845) 628-7085

Office of the Town Engineer
60 McAlpin Avenue
Mahopac, New York 10541

MEMORANDUM

To: Environmental Conservation Board

From: Richard J. Franzetti P.E. Town Engineer

Date: February 23, 2017

Re: 47 Tyler Court – TM 64.15-1-65 – Escrow Return

In response to the attached request by the above applicant, a representative of the Engineering Department (Department) performed a field inspection of the referenced property on February 23, 2017 to evaluate the current status of the site construction, for the purpose of determining whether a bond return was warranted.

All of the site improvements required pursuant to the Environmental Board approval have now been completed and the escrow can be returned.

I trust that this is adequate for your needs. If you have any questions, please don't hesitate to contact me.