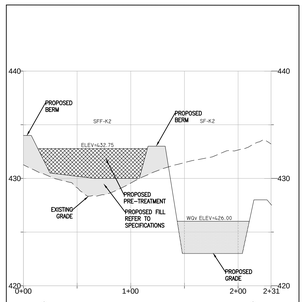
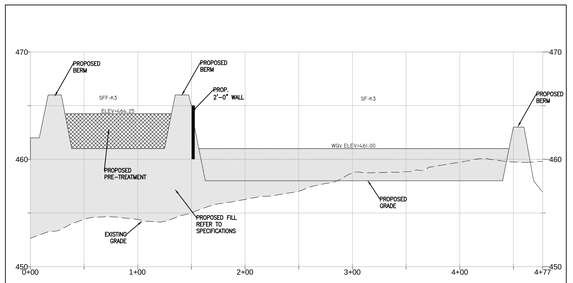
DETENTION BASIN SECTIONS



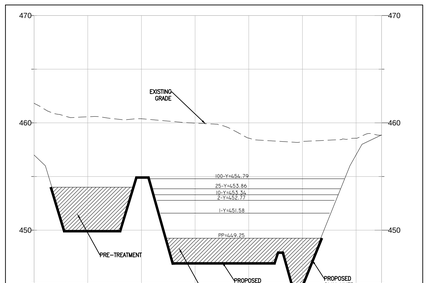
Alignment - SF K2 Line 1 Cross Section

Vertical Scale: 1" = 5'
Horizontal Scale: 1"=50'



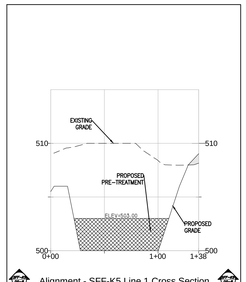
Alignment - SF K3 Line 1 Cross Section

Vertical Scale: 1" = 5'
Horizontal Scale: 1"=50'



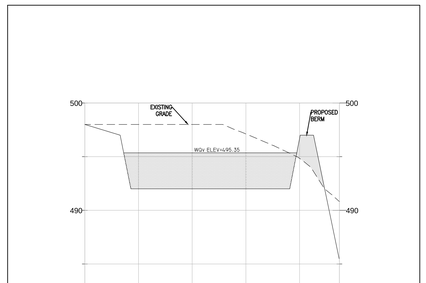
Alignment - ED K3 Line 1 Cross Section

Vertical Scale: 1" = 5'
Horizontal Scale: 1"=50'



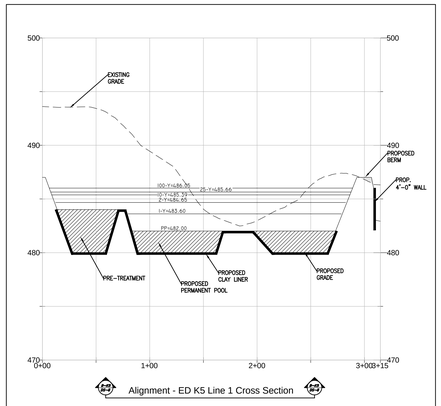
Alignment - SFF-K5 Line 1 Cross Section

Vertical Scale: 1" = 5'
Horizontal Scale: 1"=50'



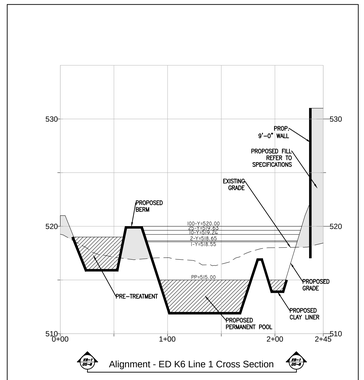
Alignment - SF K5 Line 1 Cross Section

Vertical Scale: 1" = 5'
Horizontal Scale: 1"=50'



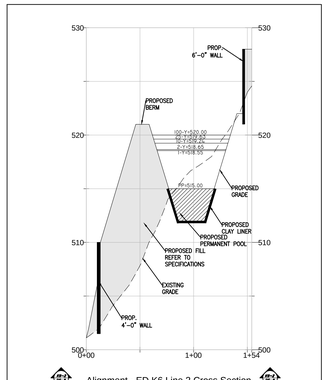
Alignment - ED K5 Line 1 Cross Section

Vertical Scale: 1" = 5'
Horizontal Scale: 1"=50'



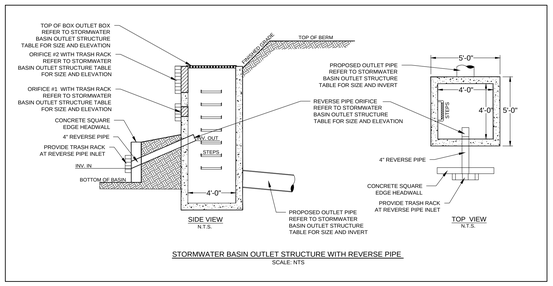
Alignment - ED K6 Line 1 Cross Section

Vertical Scale: 1" = 5'
Horizontal Scale: 1"=50'

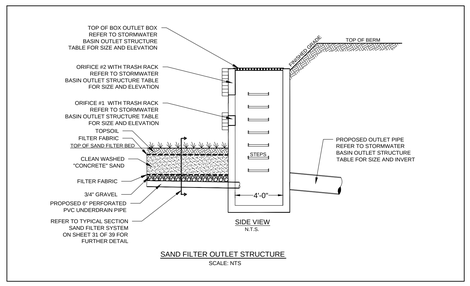


Alignment - ED K6 Line 2 Cross Section

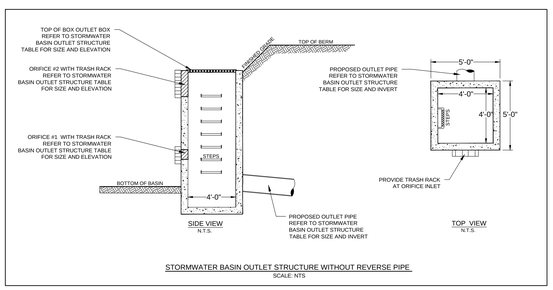
Vertical Scale: 1" = 5'
Horizontal Scale: 1"=50'



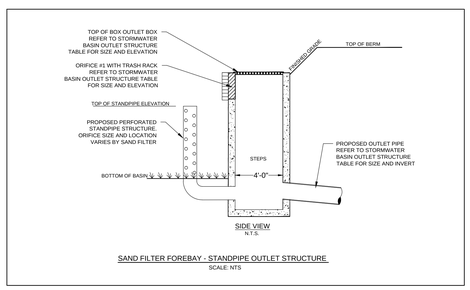
STORMWATER BASIN OUTLET STRUCTURE WITH REVERSE PIPE
SCALE: NTS



SAND FILTER OUTLET STRUCTURE
SCALE: NTS



STORMWATER BASIN OUTLET STRUCTURE WITHOUT REVERSE PIPE
SCALE: NTS



SAND FILTER FOREBAY - STANDPIPE OUTLET STRUCTURE
SCALE: NTS

STORMWATER BASIN OUTLET STRUCTURE TABLE

Basin	Outlet Pipe			RPI/Standpipe/Underdrain			Orifice #1			Orifice #2			Orifice #3			Top of Outlet Box		Emergency Overflow	
	Size (in)	Inv.In	Inv. Out	Size (in)	Type	Inv.	Size (in)	Type	Inv.	Size (in)	Type	Inv.	Size (in)	Type	Inv.	Size (in)	Inv.	Size (ft)	Inv.
SFF-A3a	15	337.00	336.90	12	S.P.	338.75	-	-	-	-	-	-	-	-	-	24 x 24	338.75	8	339.00
SF-A3a	12	332.50	332.10	6	U.D.	332.50	-	-	-	-	-	-	-	-	-	48 x 48	336.85	10	337.10
SFF-A3b	15	348.00	347.50	12	S.P.	350.00	18 x 12	R.V.O. (2)	350.00	-	-	-	-	-	-	24 x 24	351.00	8	351.00
SF-A3b	12	339.5	338.7	6	U.D.	339.50	12 x 12	R.V.O.	344	-	-	-	-	-	-	36 x 36	344.9	10	345
ED-A4	24	358.00	356.00	2	RPI	361.25/363	13 x 9	R.V.O.	364.47	22 x 12	R.V.O. (2)	366.00	-	-	-	48 x 48	366.97	10	367.00
SFF-B2	12	456.00	440.00	12	S.P.	458.55	-	-	-	-	-	-	-	-	-	-	-	8	459.00
SF-B2	12	431.5	428	6	U.D.	431.50	12 x 12	R.V.O.	437	-	-	-	-	-	-	36 x 36	438	10	438
B-B3	36	414.00	404.00	-	-	-	6	C.V.O.	420.50	18 x 12	R.V.O. (3)	424.00	-	-	-	48 x 48	425.00	10	425.00
PW-C2	18	460	449	1.7	RPI	460.75/463	13 x 11	R.V.O. (4)	465.05	-	-	-	-	-	-	48 x 48	465.98	10	466
SFF-G1	12	520.00	519.50	15	S.P.	522.90	-	-	-	-	-	-	-	-	-	48 x 48	522.90	8	523.00
SF-G1	12	515.50	515.12	6	U.D.	515.50	12 x 12	R.V.O.	519.50	-	-	-	-	-	-	48 x 48	520.00	10	521.00
B-G1	18	511.00	509.00	-	-	-	4	C.V.O.	512.50	28 x 18	R.V.O.	514.00	-	-	-	36 x 36	516.00	10	517.00
I-G2	15	447.00	437.00	-	-	-	24 x 12	R.V.O.	451.50	-	-	-	-	-	-	36 x 36	453.00	10	453.00
I-G3a	18	399.00	389.00	-	-	-	24 x 7	R.V.O. (3)	402.42	-	-	-	-	-	-	48 x 48	402.85	10	403.00
I-G3b	15	439.00	429.00	-	-	-	18 x 11	R.V.O. (2)	442.08	-	-	-	-	-	-	48 x 48	442.96	10	443.00
B-G4a	48x24	418.00	416.00	-	-	-	1	C.V.O.	420.00	5	C.V.O.	422.75	20 x 10	R.V.O. (2)	424.00	48 x 48	424.85	10	425.00
SFF-G5	12	432.00	431.50	15	S.P.	434.90	-	-	-	-	-	-	-	-	-	24 x 24	434.90	10	435.00
SF-G5	12	425.50	425.13	6	U.D.	425.50	-	-	-	-	-	-	-	-	-	36 x 36	430.9	10	431.02
B-G5	24	419.00	416.00	-	-	-	4	C.V.O.	420.50	21.4 x 12	R.V.O. (2)	424.00	-	-	-	36 x 36	425.00	10	425.00
SFF-G6	12	460.00	459.00	24	S.P.	462.80	-	-	-	-	-	-	-	-	-	36 x 36	462.80	10	463.00
SF-G6	12	453.50	453.00	6	U.D.	453.50	-	-	-	-	-	-	-	-	-	48 x 48	458.75	10	459.00
B-G6	24	447.50	446.50	-	-	-	4	C.V.O.	448.50	24 x 12	R.V.O. (2)	451.90	-	-	-	36 x 36	452.90	10	453.00
SFF-G7	8	452.00	451.50	15	S.P.	454.80	-	-	-	-	-	-	-	-	-	24 x 24	454.90	10	455.00
SF-G7	12	445.50	442.00	6	U.D.	445.50	-	-	-	-	-	-	-	-	-	36 x 36	450.85	10	451.00
SFF-K2	12	430.00	428.00	24	S.P.	432.75	-	-	-	-	-	-	-	-	-	36 x 36	432.85	10	433.00
SF-K2	15	420.50	420.00	6	U.D.	420.50	24 x 9	R.V.O. (2)	426.00	-	-	-	-	-	-	48 x 48	426.75	10	427.00
SFF-K3	36	462.00	461.00	24	S.P.	464.25	24 x 8	R.V.O. (3)	464.25	-	-	-	-	-	-	36 x 36	464.92	10	465.00
SF-K3	36	455.50	455.00	6	U.D.	455.50	26 x 8	R.V.O. (4)	461.00	-	-	-	-	-	-	48 x 48	461.65	10	462.00
ED-K3	24	446.50	445.50	2	RPI	448/449.25	24 x 17	R.V.O. (2)	453.00	-	-	-	-	-	-	48 x 48	454.75	10	455.00
SFF-K5	24	500.00	495.00	18	S.P.	503.00	24 x 11	R.V.O. (3)	504.00	-	-	-	-	-	-	48 x 48	504.92	10	505.00
SF-K5	24	488.50	487.00	6	U.D.	488.50	-	-	-	-	-	-	-	-	-	48 x 48	494.35	10	495.00
ED-K5	24	480.00	478.00	2	RPI	480.5/482	39 x 9	R.V.O. (4)	485.25	-	-	-	-	-	-	48 x 48	486.00	10	486.05
ED-K6	30	512.00	510.00	2	RPI	514.5/515	22 x 16	R.V.O. (4)	518.50	-	-	-	-	-	-	48 x 48	519.95	14	520.05

LEGEND

SFF = SAND FILTER FOREBAY
SF = SURFACE SAND FILTER
ED = MICROPOOL EXTENDED DETENTION BASIN
I = INFILTRATION BASIN
B = DRY BASIN
RPI. = REVERSE PIPE INLET - INVERT = IN/OUT
S.P. = STAND PIPE
U.D. = UNDERDRAIN
C.V.O. = CIRCULAR VERTICAL ORIFICE
R.V.O. = RECTANGULAR VERTICAL ORIFICE
(2) = NUMBER OF IDENTICAL ORIFICES
DIMENSION 10 x 13 = WIDTH (INCHES) x HEIGHT (INCHES)

NOTES:

PP = PERMANENT POOL ELEVATION

1-Y = 1 YEAR STORM = CHANNEL PROTECTION VOLUME ELEVATION
WQV ELEVATION (NYSDEC & NYCDEP)

2-Y = 2 YEAR STORM

10-Y = 10 YEAR STORM = OVER BANK PROTECTION ELEVATION

25-Y = 25 YEAR STORM ELEVATION

100-Y = 100 YEAR STORM = EXTREME YEAR EVENT ELEVATION

VERTICAL GRAPHIC SCALE

5 0 2.5 5 10 20

(IN FEET)
1 inch =5 ft.

HORIZONTAL GRAPHIC SCALE

50 0 25 50 100 200

(IN FEET)
1 inch =50 ft.

REV.	DESCRIPTION	BY	DATE
1	NYC DEP COMMENTS	PL	July 24, 2006
2	TOWN REVIEW	PL	Nov 15, 2006
3	TOWN REVIEW	PL	Sept 2, 2008
4	TOWN REVIEW	DPG	April 16, 2010
5	TOWN PLANNER MEMO (7/8/2010) & TOWN ENGINEER MEMO (7/9/2010)	DPG	December 29, 2010
6	TOWN PLANNER MEMO (9/9/2011) & TOWN ENGINEER MEMO (9/3/2011)	DPG	February 24, 2012
7	COMPLETENESS SUBMISSION	DPG	July 31, 2012
8	ACCEPTED DRAWING SET	DPG	September 12, 2012
9	RESOLUTION 139-13	PJG	April 22, 2013

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STATE OF NEW YORK
DANIEL J. COPPELMAN
No. 071226
LICENSED PROFESSIONAL ENGINEER

DETENTION BASIN CROSS SECTIONS (SHEET 2)
HIGHGATE - WOODLANDS AT NORTH SALEM
REED ROAD AND HARDSCRABBLE ROAD
TOWN OF NORTH SALEM
COUNTY OF WESTCHESTER
STATE OF NEW YORK

DRAWN BY: PL CHECKED BY: DC
SCALE: AS NOTED
DATE: NOVEMBER 1, 2005
JOB NUMBER
SHEET DS-8, 37 of 39

ANY DETAIL NOT SPECIFICALLY SHOWN ON THE SITE PLAN WILL BE UTILIZED WHEN FIELD CONDITIONS WARRANT AS DIRECTED BY THE ENVIRONMENTAL MONITOR

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS DRAWING IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2, OF THE NEW YORK STATE EDUCATION LAW.