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Site / Civil Engineer: Hudson Land Design 174 Main Street Beacon, New York 12508



INSPECTION SCHEDUL
STORMWATER STRUCT
CATCH BASINS AND PIPING:
ALL CATCH BASINS SHALL BE INSPECTED

HYDRODYNAMIC DEVICE:

THE VORTEX UNITS SHALL BE INSPECTED QUARTERLY DURING THE FIRST YEAR OF OPERATION. THE MANUFACTURER RECOMMENDS THAT THE CDS UNITS BE INSPECTED BI-ANNUALLY (ONCE IN THE SPRING AND ONCE IN THE FALL). THE STRUCTURE SHALL BE VISUALLY INSPECTED FOR BLOCKAGES OR OBSTRUCTIONS IN THE INLET OR SEPARATION SCREEN. THE INSPECTION SHOULD ALSO QUANTIFY ACCUMULATION OF HYDROCARBONS, SEDIMENT AND TRASH WITHIN THE SYSTEM. INSPECTIONS AND MAINTENANCE SHALL BE PERFORMED BY QUALIFIED PERSONNEL WITH ADEQUATE TRAINING IN THESE TYPES OF UNITS. THE UNITS SHALL BE CLEANED BY VACUUM TRUCK ONCE A YEAR (EXCEPT FOR THE FIRST YEAR WHERE MORE FREQUENT CLEANINGS MAY BE REQUIRED). UNDERGROUND DETENTION/INFILTRATION:

CLEANED OUT OF THE INFILTRATION BASIN ANNUALLY. EXISTING UNDERGROUND UTILITY NOTES: ATTENTION IMMEDIATELY.

GENERAL CONSTRUCTION NOTES: LOCATIONS BY CONTACTING UFPO @ 1-800-962-7962.

3. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS AND INVERTS OF ALL CATCH BASINS & STORM SEWER LINES, SANITARY MANHOLES & SEWER LINES, WATERLINES AND OTHER UNDERGROUND UTILITY LINES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOT ASSUME THAT ALL LOCATIONS AS SHOWN ON THE PLAN ARE CORRECT. INVESTIGATIVE TEST PITS MAY BE REQUIRED TO VERIFY LOCATIONS. 4. PIPE CONNECTIONS TO ALL CATCH BASINS SHALL BE MADE WATERTIGHT, WITH PARTICULAR ATTENTION BEING PAID TO

POST CONSTRUCTION NOTES: 1.

STRUCTURE	STRUCTURE DETAILS				
CB1	RIM = 125.10 SUMP = 121.10 CB1-CB2 INV OUT = 122.10				
CB3	RIM = 125.70 SUMP = 120.60 CB2-CB3 INV IN = 121.30 CB3-CB5 INV OUT = 121.20				
CB4	RIM = 126.00 SUMP = 121.80 YD4-CB4 INV IN = 123.10 CB4-CB5 INV OUT = 123.00				
CB5	RIM = 125.90 SUMP = 120.10 CB4-CB5 INV IN = 122.50 CB5-CB6 INV OUT = 122.40				
CB6	RIM = 123.50 SUMP = 118.00 CB5-CB6 INV IN = 120.60 CB3-CB5 INV IN = 120.60 CB6-CB7 INV OUT = 120.50				
CB7	RIM = 121.08 SUMP = 117.00 CB6-CB7 INV IN = 118.10 CB7-WQI1 INV OUT = 118.00				
CB8	RIM = 118.40 SUMP = 112.50 YD6-CB8 INV IN = 113.60 CB8-WQI1 INV OUT = 113.50				

STORM SEWER STRUCTURE TABLE

STORM SEWER PIPE TABLE					
PIPE NAME	LENGTH	SIZE AND MATERIAL	SLOPE		
CB1-CB2	35 LF	15" Ø CORR HDPE	1.15%		
CB2-CB3	24 LF	15" Ø CORR HDPE	1.26%		
CB3-CB5	63 LF	15" Ø CORR HDPE	0.95%		
CB4-CB5	44 LF	15" Ø CORR HDPE	1.14%		
CB5-CB6	84 LF	15" Ø CORR HDPE	2.15%		
CB6-CB7	93 LF	15" Ø CORR HDPE	2.59%		
CB7-WQI1	8 LF	15" Ø CORR HDPE	5.07%		
CB8-WQI1	56 LF	15" Ø CORR HDPE	1.07%		
ES1-ES2	25 LF	15" Ø CORR HDPE	1.22%		

SANITARY SEWER STRUCTURE TABLE							
STRUCTURE		STF	RUCT	URE I	DE	TAILS	
EX SMH	RIM = 89.97 SMH5 TO EX SMH INV IN = 83.75				3.75		
SMH1	SMF	11–SMI		= 12 INV (.90 T = 120.	80
SMH2	SMF	12-SMI		= 13 INV (.17 T = 124.	00
SMH3	SMH2-SMH3 INV IN = 120.30 SMH3-SMH4 INV OUT = 120.20 RIM = 117.59			50			
SMH4							
RIM = 92.53 SMH5 SMH4-SMH5 INV IN = 85.00 SMH5 TO EX SMH INV OUT = 84.90				-			
SANITARY SEWER PIPE TABLE							
PIPE NAME		ENGTH	SIZ	E ANI	2	MATERIAL	SLO

PIPE NAME	LENGTH	SIZE AND MATERIAL	SLOPE
SMH1-SMH2	84 LF	8"SDR-35 PVC	0.59%
SMH2-SMH3	49 LF	8"SDR-35 PVC	7.51%
SMH3-SMH4	287 LF	8"SDR-35 PVC	2.58%
SMH4-SMH5	51 LF	8" SDR-26 PVC	20.00%
SMH5 TO EX SMH	81 LF	8"SDR-35 PVC	1.42%

<u>E & LONG TERM MAINTENANCE OF</u>

) AFTER EACH STORM EVENT FOR SEDIMENT ACCUMULATION, AND DEBRIS, AND REMOVE AS NECESSARY. WHEN SEDIMENT ACCUMULATION WITHIN THE CATCH BASIN SUMP REACHES 1/2 OF THE SUMP DEPTH, IT SHALL BE REMOVED. ASSOCIATED PIPING SHALL BE INSPECTED ANNUALLY AND ACCUMULATED SEDIMENT SHALL BE REMOVED AS NEEDED.

THE UNDERGROUND DETENTION/INFILTRATION AREA SHALL BE INSPECTED MONTHLY FOR SEDIMENT AND DEBRIS ACCUMULATION. INFLOW PIPES. OUTLET STRUCTURES AND SPILLWAYS SHOULD ALSO BE INSPECTED FOR SEDIMENT AND DEBRIS MONTHLY. ANY ACCUMULATED SEDIMENT OR DEBRIS SHOULD BE REMOVED AS NECESSARY BY MEANS OF A VACUUM TRUCK. AFTER STORM EVENTS, THE UNDERGROUND DETENTION /INFILTRATION AREA'S DE-WATERING DURATION SHOULD ALSO BE MONITORED. IF IT TAKES LONGER THAN 24 HOURS TO DE-WATER, THE BASIN SHALL BE JET CLEANED TO PROVIDE FULL DE-WATERING IN 24 HOURS. SEDIMENT SHALL BE

1. CONTRACTOR SHALL DIG TEST PITS TO VERIFY LOCATION, SIZE AND PIPE MATERIAL OF EXISTING UNDERGROUND UTILITIES. IF ANY EXISTING UTILITIES ARE NOT IN THE LOCATION WHERE THEY ARE SHOWN ON THE PLAN, IT SHALL BE BROUGHT TO THE ENGINEER'S

1. ALL OTHER UTILITIES (TELEPHONE, ELECTRIC, GAS, CABLE, ETC.) SHALL BE INCORPORATED PRIOR TO CONSTRUCTION. ALL SUCH UTILITY DESIGNS SHALL BE DEVELOPED IN COOPERATION WITH THE RESPECTIVE UTILITY COMPANIES. 2. THE CONTRACTOR SHALL PERFORM A UTILITIES CALL-OUT PRIOR TO CONSTRUCTION TO VERIFY ALL UNDERGROUND UTILITY

CONNECTIONS LOCATED WITHIN 10 FEET OF SEWER MAINS (AND SERVICE LATERALS).

UPON COMPLETION OF CONSTRUCTION OF THE STORMWATER FACILITIES, AS-BUILT DRAWINGS OF ALL STORMWATER PRACTICES AND AN OPERATION AND MAINTENANCE PLAN MANUAL SHALL BE PROVIDED TO THE CITY OF BEACON.

STORM SEWER STRUCTURE TABLE					
STRUCTURE	STRUCTURE DETAILS				
EX CB1	RIM = 103.16 SUMP = 98.92 EX CB1-YD7 INV OUT = 98.90				
EX CB3	RIM = 81.86 SUMP = 76.94 STMH3-EX CB3 INV IN = 67.80 EX CB3 OUT INV OUT = 67.09				
STMH1	RIM = 121.00 SUMP = 110.60 INF A OUT-STMH1 INV IN = 111.90 STMH1-STMH2 INV OUT = 111.60				
STMH2	RIM = 100.07 SUMP = 88.60 YD8-STMH2 INV IN = 89.60 STMH1-STMH2 INV IN = 89.70 STMH2-EX CB2 INV OUT = 89.60				
STMH3	$\begin{array}{rl} {\sf RIM} &= 84.89 \\ {\sf SUMP} &= 77.50 \\ {\sf INF} \; {\sf B}(1) - {\sf STMH3} & {\sf INV} \; {\sf IN} &= 79.50 \\ {\sf INF} \; {\sf B}(2) - {\sf STMH3} & {\sf INV} \; {\sf IN} &= 80.30 \\ {\sf STMH3} - {\sf EX} \; {\sf CB3} & {\sf INV} \; {\sf OUT} &= 73.30 \\ \end{array}$				
WQI1	RIM = 120.50 SUMP = 111.80 CB7-WQI1 INV IN = 117.60 CB8-WQI1 INV IN = 112.90 WQI1-CULTEC INV OUT = 112.80				
YD1	RIM = 139.00 SUMP = 133.80 YD1-YD2 INV OUT = 136.00				

STRUCTURE	STRUCTURE DETAILS
YD2	RIM = 135.90 SUMP = 131.90 YD1-YD2 INV IN = 133.00 YD2-YD3 INV OUT = 132.90
YD3	RIM = 131.76 SUMP = 127.70 YD2-YD3 INV IN = 128.80 YD3-CB2 INV OUT = 128.70
YD4	RIM = 129.00 SUMP = 125.10 YD4-CB4 INV OUT = 126.10
YD5	RIM = 117.20 SUMP = 113.30 YD5-YD6 INV OUT = 114.30
YD7	RIM = 94.50 SUMP = 90.50 EX CB1-YD7 INV IN = 91.60 YD7-YD8 INV OUT = 91.50
YD8	RIM = 92.20 SUMP = 85.34 YD7-YD8 INV IN = 89.80 YD8-STMH2 INV OUT = 89.80

STORM SEWER STRUCTURE TABLE

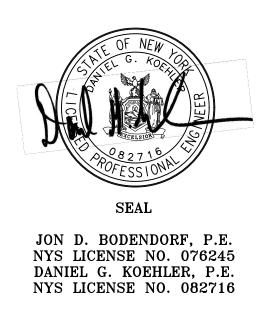
STORM SEWER PIPE TABLE						
PIPE NAME	LENGTH	SIZE AND MATERIAL	SLOPE			
EX CB1-YD7	128 LF	15" Ø CORR HDPE	5.70%			
INF A OUT-STMH1	8 LF	12" Ø CORR HDPE	1.32%			
INF B(1)-STMH3	32 LF	4" Ø CORR HDPE	4.69%			
INF B(2)-STMH3	32 LF	6" ø CORR HDPE	4.69%			
STMH1-STMH2	124 LF	15" Ø CORR HDPE	17.72%			
STMH2-EX CB2	87 LF	15" Ø CORR HDPE	1.04%			
STMH3-EX CB3	37 LF	15" Ø CORR HDPE	14.91%			
WQI1-CULTEC	11 LF	15" Ø CORR HDPE	16.52%			
YD1-YD2	82 LF	15" Ø CORR HDPE	3.64%			

STORM SEWER PIPE TABLE						
PIPE NAME	LENGTH	SIZE AND MATERIAL	SLOPE			
YD2-YD3	66 LF	15" Ø CORR HDPE	6.24%			
YD3-CB2	81 LF	15" Ø CORR HDPE	8.68%			
YD4-CB4	101 LF	15" Ø CORR HDPE	2.96%			
YD5-YD6	29 LF	15" Ø CORR HDPE	1.04%			
YD6-CB8	24 LF	15" Ø CORR HDPE	1.24%			
YD7-YD8	64 LF	15" Ø CORR HDPE	2.64%			
YD8-STMH2	38 LF	15" Ø CORR HDPE	0.53%			

APPROVED BY RESOLUTION OF THE PLANNING BOARD OF THE CITY OF BEACON, NEW YORK, ON THE ______ DAY OF ______, 20_____, SUBJECT TO ALL REQUIREMENTS AND CONDITIONS OF SAID RESOLUTION. ANY CHANGE, ERASURE, MODIFICATION OR REVISION OF THIS PLAT, AS APPROVED, SHALL VOID THIS APPROVAL. SIGNED THIS _____ DAY OF _____, 20____, BY

_ CHAIRMAN

SECRETAR IN ABSENCE OF THE CHAIRMAN OR SECRETARY, THE ACTING CHAIRMAN OR ACTING SECRETARY RESPECTIVELY MAY SIGN IN THIS PLACE.



REVI	SIONS:			
NO.	NO. DATE DESCRIPTION			
1	8/29/2017	PER PLANNING BOARD COMMENTS	DGK	
2	9/26/2017	PER PLANNING BOARD COMMENTS	DGK	
3	10/31/2017	REVISED RETAINING WALL	DGK	
4	11/28/2017	REVISED STAIRWAY TO FERRY STREET	DGK	

Grading and Utility Plan Sheet 7 of 11

River Ridge Townhouses Beacon, New York Scale: As Noted July 25, 2017