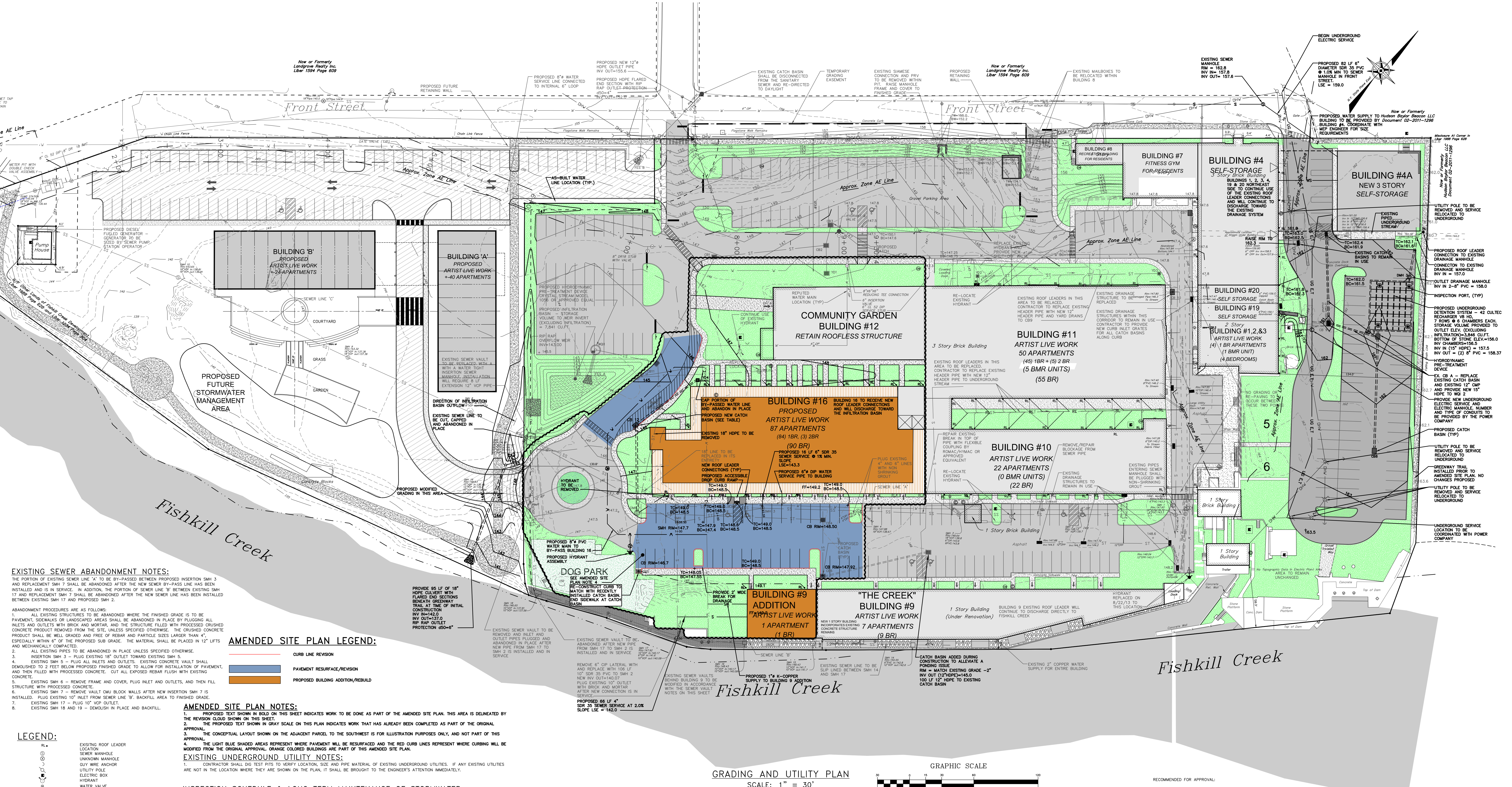




EXISTING SEWER ABANDONMENT NOTES:
THE PORTION OF EXISTING SEWER LINE "A" TO BE BY-PASSED BETWEEN PROPOSED INSERTION SMH 3 AND REPLACEMENT SMH 7 SHALL BE ABANDONED AFTER THE NEW SEWER BY-PASS LINE HAS BEEN INSTALLED AND IS IN SERVICE. IN ADDITION, THE PORTION OF SEWER LINE "B" BETWEEN EXISTING SMH 17 AND REPLACEMENT SMH 7 SHALL BE ABANDONED AFTER THE NEW SEWER LINE HAS BEEN INSTALLED BETWEEN EXISTING SMH 17 AND PROPOSED SMH 2.

ABANDONMENT PROCEDURES ARE AS FOLLOWS:
1. ALL EXISTING STRUCTURES TO BE ABANDONED WHERE THE FINISHED GRADE IS TO BE PAVED. SIDEWALKS OR LANDSCAPED AREAS SHALL BE ABANDONED IN PLACE BY FLOODING ALL INLETS AND OUTLETS WITH BRICK AND MORTAR. THE STRUCTURE FILLED WITH PROCESSED CRUSHED CONCRETE PRODUCT REMOVED FROM THE SITE, UNLESS SPECIFIED OTHERWISE. THE CRUSHED CONCRETE PRODUCT SHALL BE WELL GRADED AND FREE OF REBAR AND PARTICLES LARGER THAN 4". ESPECIALLY WITHIN 6" OF THE PROPOSED SUB GRADE. THE MATERIAL SHALL BE PLACED IN 12" LIFTS AND MECHANICALLY COMPACTED.
2. ALL EXISTING PIPES TO BE ABANDONED IN PLACE UNLESS SPECIFIED OTHERWISE.
3. INSERTION SMH 3 - PLUG EXISTING 18" OUTLET TOWARD EXISTING SMH 5.
4. EXISTING SMH 5 - PLUG ALL INLETS AND OUTLETS. EXISTING CONCRETE VAULT SHALL DEMOLISHED TO 2 FEET BELOW PROPOSED FINISHED GRADE TO ALLOW FOR INSTALLATION OF PAVEMENT, AND THEN FILLED WITH PROCESSED CONCRETE. CUT ALL EXPOSED REBAR FLUSH WITH EXISTING CONCRETE.
5. EXISTING SMH 6 - REMOVE FRAME AND COVER, PLUG INLET AND OUTLETS, AND THEN FILL STRUCTURE WITH PROCESSED CONCRETE.
6. EXISTING SMH 7 - REMOVE VAULT CMU BLOCK WALLS AFTER NEW INSERTION SMH 7 IS INSTALLED. PLUG EXISTING 10" INLET FROM SEWER LINE "B". BACKFILL AREA TO FINISHED GRADE.
7. EXISTING SMH 17 - PLUG 10" VCP OUTLET.
8. EXISTING SMH 18 AND 19 - DEMOLISH IN PLACE AND BACKFILL.

AMENDED SITE PLAN LEGEND:

- CURB LINE REVISION
- PAVEMENT RESURFACE/REVISION
- PROPOSED BUILDING ADDITION/REBUILD

AMENDED SITE PLAN NOTES:
1. THE PROPOSED TEXT SHOWN IN BOLD ON THIS SHEET INDICATES WORK TO BE DONE AS PART OF THE AMENDED SITE PLAN. THIS AREA IS DELINEATED BY THE REVISION CLOUD SHOWN ON THIS SHEET.
2. THE PROPOSED TEXT SHOWN IN GRAY SCALE ON THIS PLAN INDICATES WORK THAT HAS ALREADY BEEN COMPLETED AS PART OF THE ORIGINAL APPROVAL.
3. THE CONCEPTUAL LAYOUT SHOWN ON THE ADJACENT PARCEL TO THE SOUTHWEST IS FOR ILLUSTRATION PURPOSES ONLY, AND NOT PART OF THIS APPROVAL.
4. THE LIGHT BLUE SHADED AREAS REPRESENT WHERE PAVEMENT WILL BE RESURFACED AND THE RED CURB LINES REPRESENT WHERE CURBING WILL BE MODIFIED FROM THE ORIGINAL APPROVAL. GRADE COLORED BUILDINGS ARE PART OF THIS AMENDED SITE PLAN.

- LEGEND:**
- EXISTING ROOF LEADER
 - SEWER MANHOLE
 - UNKNOWN MANHOLE
 - GUY WIRE ANCHOR
 - UTILITY POLE
 - ELECTRIC BOX
 - HYDRANT
 - WATER VALVE
 - ROUND DROP INLET
 - ELECTRIC METER
 - UTILITY POLE WITH LIGHT
 - COMMUNICATION BOX
 - OVERHEAD WIRES
 - FENCE
 - DROP INLET
 - GAS METER
 - LAMP
 - UNKNOWN VALVE
 - EXISTING WATER EDGE
 - PROPOSED EASEMENT LINE
 - PROPOSED CATCH BASIN WITH INLET PROTECTION
 - PROPOSED CLEANOUT
 - PROPOSED HYDRANT
 - PROPOSED WATER VALVE
 - PROPOSED SANITARY MANHOLE
 - PROPOSED RETAINING WALL
 - PROPOSED CULVERT
 - PROPOSED UNDERDRAIN
 - PROPOSED ROOF LEADER PIPE
 - PROPOSED MAJOR CONTOUR
 - PROPOSED SPOT ELEVATION
 - EXISTING CATCH BASIN
 - EXISTING UTILITY POLE
 - PROPOSED CLEANOUT
 - PROPOSED SEWER SERVICE LINE
 - PROPOSED WATER SUPPLY LINE
 - PROPOSED FENCE
 - IMPERVIOUS SURFACE
 - PROPOSED RIP RAP
 - UTILITY CROSSING LOCATION
 - PROPOSED ROOF LEADER LOCATION

INSPECTION SCHEDULE & LONG TERM MAINTENANCE OF STORMWATER STRUCTURES

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

HYDRODYNAMIC DEVICES:
THE VORTEX UNITS SHALL BE INSPECTED QUARTERLY DURING THE FIRST YEAR OF OPERATION. THE MANUFACTURER RECOMMENDS THAT THE COS 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).

INFILTRATION BASIN:
THE INFILTRATION BASIN 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. PLANTINGS SHALL BE INSPECTED MONTHLY FOR HEIGHT, FERTILIZER, QUANTITY AND UNAUTHORIZED INVASIVE OR INAPPROPRIATE SPECIES. AFTER STORM EVENTS, THE INFILTRATION BASIN DEWATERING DURATION SHOULD ALSO BE MONITORED. THE BASIN FLOOR SHALL BE MOVED AS REQUIRED; HOWEVER, THE GRASS HEIGHT SHALL NOT EXCEED 18". SEDIMENT SHALL BE CLEANED OUT OF THE INFILTRATION BASIN ANNUALLY.

BIORETENTION AREAS:
BIORETENTION AREAS 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. PLANTINGS SHALL BE INSPECTED MONTHLY FOR HEIGHT, FERTILIZER, QUANTITY AND UNAUTHORIZED INVASIVE OR INAPPROPRIATE SPECIES. GRASS HEIGHT SHALL BE KEPT BELOW 6" IN HEIGHT. AFTER STORM EVENTS, THE BIORETENTION'S DEWATERING DURATION SHOULD ALSO BE MONITORED. SEDIMENT SHALL BE CLEANED OUT OF THE BIORETENTION AREA ANNUALLY.

GENERAL CONSTRUCTION NOTES:
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 LOCATIONS BY CONTACTING UPPO @ 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 CONNECTIONS LOCATED WITHIN 10 FEET OF SEWER MAINS (AND SERVICE LATERALS).

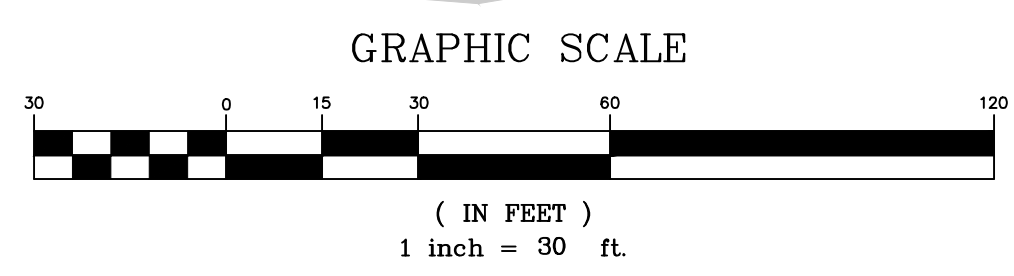
POST CONSTRUCTION NOTES:
1. UPON COMPLETION OF CONSTRUCTION OF THE STORMWATER FACILITIES, AS-BUILT DRAWINGS OF ALL STORMWATER PRACTICES AND AN OPERATION AND MAINTENANCE PLAN MANUAL SHALL BE PROVIDED TO THE CITY OF BEACON.

EXISTING SEWER VAULT NOTES:
1. ALL EXISTING SEWER VAULTS BEHIND BUILDING 9 (SMH 14, 15, 16, AND 17) ALONG FISHKILL CREEK SHALL BE MADE WATERTIGHT BY REPAIRING LEAKS WITH NON-SHRINKING GROUT, AND THEN BY APPLICATION OF TWO COATS OF BITUMINUM VAL COATING WITHIN THE VAULT.
2. ANY LATERAL CONNECTIONS TO SEWER VAULTS THAT WILL NOT BE USED SHALL BE PLUGGED WITH BRICK AND MORTAR FOR LARGER PIPES, OR NON-SHRINKING GROUT FOR SMALLER PIPES.
3. REFER TO SEWER INFILTRATION AND INFLOW REPORT AND SANITARY STRUCTURE REPAIR SCHEDULE ON THIS SHEET FOR ADDITIONAL REPAIRS AND CORRECTIVE MEASURES TO BE TAKEN.

DRAINAGE STRUCTURE SCHEDULE										
STRUCTURE ID	RIM ELEVATION (FT)	INVERT (FROM CB# OR PIPE#)			LENGTH (FT)	SLOPE (%)	PIPE # (INCHES)	DOWNSTREAM STRUCTURE		
		IN (FT)	IN (FT)	IN (FT)						
WQI 1	145.0			140.54 (CB 11)	140.34	18	1.89	24	FES 4	
CB 1	146.8			142.13	141.88	110	0.50	18	CB 11	
CB 2	145.8	142.9 (YD 1)		142.8 (CB 3)	142.7	105	0.54	15	CB 1	
CB 3	147.3			143.7	18	5.63	15	CB 2		
YD 1	146.2			143.5	25	1.00	12	CB 2		
CB 4	147.5	144.30 (12" RL)		144.05 (CB 6)	144.05	170	0.50	15	DMH 1	
DMH 1	147.8	144.0 (12" RL)	143.2 (CB 5)	143.2 (CB 4)	142.90	82	0.95	18	CB 12	
CB 5	146.6			143.6	53	0.75	15	DMH 1		
DMH 2	145.0	142.30 (YD 4)	142.30 (12" RL)	141.80 (CB 12)	141.80	40	1.12	18	CB 11	
CB 6	147.3			144.3	50	0.50	15	CB 4		
CB 11	144.4		141.33 (CB 1)	141.33 (DMH 2)	140.63	57	0.50	24	WQI 3	
YD 2	147.0			144.0	13	1.00	15	UG STREAM		
WQI 2	160.7		157.7 (CB 8)	157.95 (EX CB A)	156.6	5	2.00	15	UG DETENTION	
CB 8	162.5			159.3	102	1.76	15	DMH 3		
CB 9	160.85			158.7	158.6	45	1.44	12	WQI 3	
DMH 3	161.4			158.0	157.42	37	1.44	15	EX DMH	
CB 10	147.80			144.07	144.0	7	0.50	12	UG STREAM	
YD 2	147.0			145.1	166	0.50	12	YD 3		
YD 3	147.8			144.27	144.17	20	0.50	12	CB 9	
FES 4					140.00					
UG DET					156.5	158.37	7	2.37	(2) 8" PVC	DMH 3
CB 12	145.3	142.1 (DMH 1)			142.1	27	1.0	18	DMH 2	
YD 4	146.0	142.7			142.7	41	1.0	12	DMH 2	

FLOOD ELEVATION NOTES:
1. THE 100 YEAR FLOOD ELEVATION SHOWN ON THIS PLAN WAS TAKEN FROM FEMA FLOOD PANEL #20217 C00046E, COMPLETED IN MAY 2, OF 2012.
2. THE 100 YEAR FLOOD ELEVATION WITHIN THE VICINITY OF THE EXISTING BUILDINGS IS 147.0. THE LOWEST FINISHED FLOOR ELEVATION (FFE) OF THE BUILDINGS SHALL BE LOCATED A MINIMUM OF 2 FEET ABOVE THE 100 YEAR FLOOD ELEVATION.
3. THE FFE OF BUILDING 16 AND BUILDING 9 ADDITION ARE SET AT 146.2.

GRADING AND UTILITY PLAN
SCALE: 1" = 30'



EXISTING SANITARY STRUCTURE REPAIR SCHEDULE									
STRUCTURE ID OR PIPE/STATION	RIM ELEVATION (FT)	INVERT (FROM SMHs OR PIPES)			LENGTH (FT)	SLOPE (%)	PIPE # (INCHES)	DOWNSTREAM STRUCTURE	NOTES
		IN (FT)	IN (FT)	IN (FT)					
EX SMH 1	147.92			146.07	106	1.29	10	DMH 1	REPAIRS/IMPROVEMENTS
EX SMH 2	146.2			137.87 (18")	140.0 (12")	137.87	15	DMH 1	PLUG 2-4" AND 1-6" PVC PIPES FROM DRAINAGE AND ELECTRICAL STRUCTURES, RE-PARGE MANHOLE
LINE A STA. 4+83									RE-PARGE MANHOLE
LINE A STA. 3+76									CUT OUT PIPE SECTION WITH BLOCKAGE AND REPLACE WITH 18" SDR 35 AND FLEXIBLE PIPE COUPLERS
EX SMH 4	147.2			138.68 (10")	140.0 (6")	138.18	50	DMH 1	CUT OUT PIPE SECTION WITH BLOCKAGE AND REPLACE WITH 18" SDR 35 AND FLEXIBLE PIPE COUPLERS
LINE A STA. 2+26									PLUG 4" & 6" CP PIPES FROM FLOOR DRAINS, RE-PARGE MANHOLE
EX SMH 5	146.2			137.87 (18")	140.0 (12")	137.87	15	DMH 1	PLACE INSERTION MANHOLE ON LINE, PLUG EXISTING 18" VCP OUTLET AFTER NEW PIPES ARE INSTALLED
EX SMH 6	147.0			138.68 (10")	140.0 (6")	138.18	50	DMH 1	FILL VAULT WITH GRAVEL AFTER NEW GRAVITY SEWER BY-PASS IS INSTALLED
EX SMH 7	146.2			137.87 (18")	140.0 (12")	137.87	15	DMH 1	PLUG 10" PIPE FROM SMH 19, REPLACE VAULT WITH NEW CONCRETE INSERTION "DOGHOUSE" MANHOLE
EX SMH 8, 9, & 10									RE-PARGE MANHOLE
EX SMH 11 & 12									LOCATE MANHOLES AND PROVIDE EASEMENT RINGS TO GRADE, RE-PARGE MANHOLES IF NECESSARY
EX SMH 14, 15, 16, & 17									PROVIDE WATER-TIGHT COVER, PROVIDE 2 COATS OF BITUMINUM COATING WITHIN MANHOLE INTERIOR. REMOVE ALL BRUSH AND TREES LOCATED QUAD SEWER LINE TO PREVENT FUTURE ROOT INTRUSION
EX SMH 19	147.0			138.68 (10")	140.0 (6")	138.18	50	DMH 1	REMOVE VAULT AND PLUG PIPES AFTER NEW PIPE IS INSTALLED FROM SMH 17 TO PROPOSED SMH 2.

SANITARY SEWER STRUCTURE SCHEDULE									
STRUCTURE ID	RIM ELEVATION (FT)	INVERT (FROM SMHs OR PIPES)			LENGTH (FT)	SLOPE (%)	PIPE # (INCHES)	DOWNSTREAM STRUCTURE	NOTES
		IN (FT)	IN (FT)	IN (FT)					
EX SMH 17	147.92			146.07	106	1.29	10	DMH 1	
SMH 1	146.2	137.87 (18")		140.0 (12")	137.87	15	DMH 1	EX SMH 8	
SMH 2	147.2	138.18 (16")		138.68 (10")	138.18	50	DMH 1	SMH 2	
SMH 3	148.0	138.34 (18")		140.0 (6")	138.34	75	DMH 1	SMH 2	

NOTES:
1) SMH = SEWER MANHOLE, LSE = LOW SEWER INVERT, VCP = VITRIFIED CLAY PIPE, EX = EXISTING
2) CB = CATCH BASIN, OCS = OUTLET CONTROL STRUCTURE, YD = YARD DRAIN, WQI = HYDRODYNAMIC WATER QUALITY INLET, RL = ROOF LEADER
3) ROOF LEADERS SHALL BE 10" & HOPE @ 1.0% UNLESS SPECIFIED OTHERWISE.

RECOMMENDED FOR APPROVAL:

MAYOR OF THE CITY OF BEACON _____ DATE _____

APPROVED BY RESOLUTION OF THE CITY COUNCIL OF THE CITY OF BEACON

ON THE _____ DAY OF _____, 20____

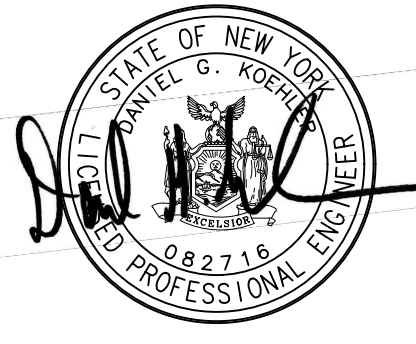
APPROVED BY RESOLUTION OF THE PLANNING BOARD OF THE CITY OF BEACON, NEW YORK, ON THE _____ DAY OF _____, 20____ SUBJECT TO ALL REQUIREMENTS AND CONDITIONS OF SAID RESOLUTION, ANY CHANGE, ERASURE, MODIFICATION OR REVISION OF THIS PLAN, AS APPROVED, SHALL VOID THIS APPROVAL.

SIGNED THIS _____ DAY OF _____, 20____ BY _____

_____ CHAIRMAN

_____ SECRETARY

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



REVISIONS:		
NO.	DATE	DESCRIPTION
1	8/29/17	PER PLANNING BOARD COMMENTS
2	9/26/17	PER PLANNING BOARD COMMENTS
3	10/31/17	PER PLANNING BOARD COMMENTS
4	11/28/17	PER PLANNING BOARD COMMENTS