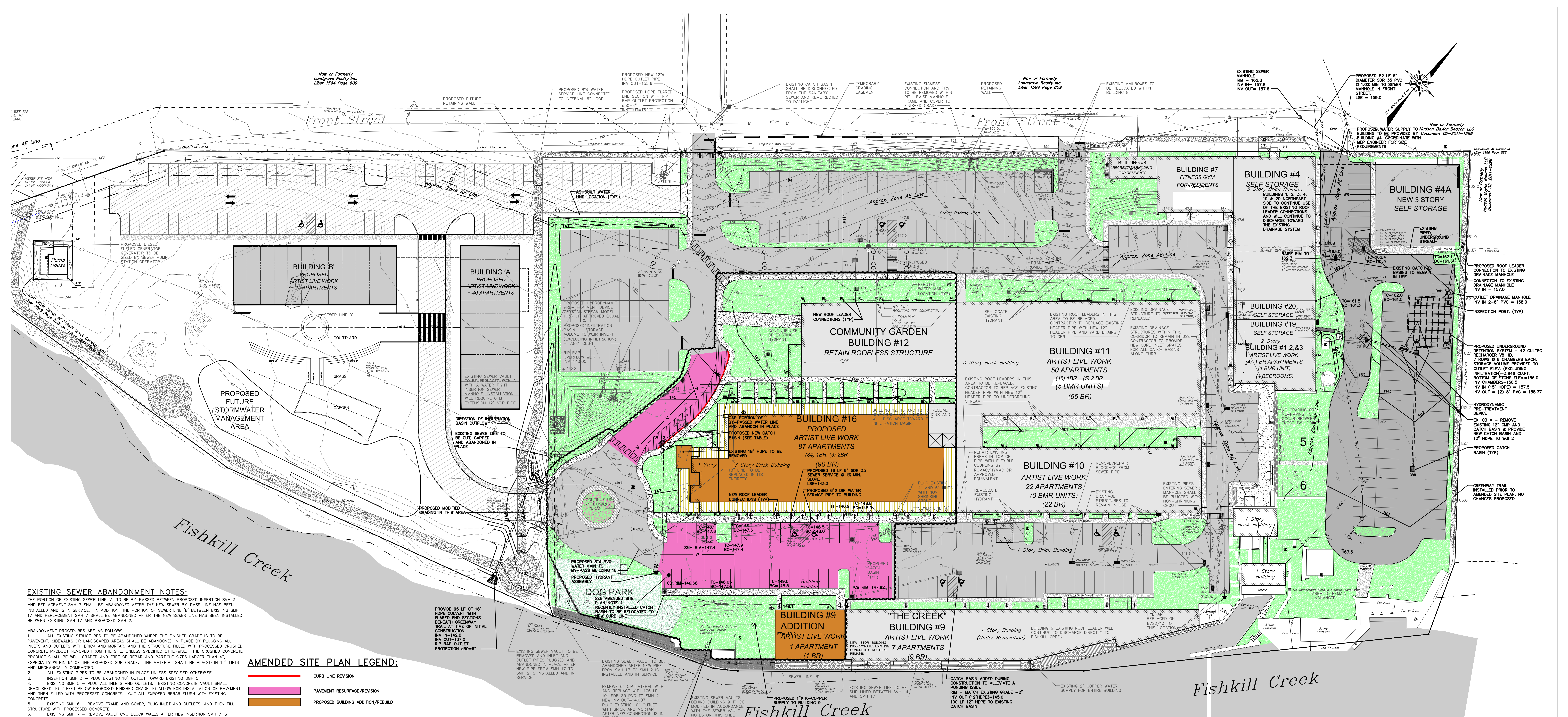




EXISTING SEWER ABANDONMENT NOTES:

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 PLUGGING ALL INLETS AND OUTLETS WITH BRICK AND MORTAR, AND 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 DEBRIS 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 - PLUS EXISTING 18" OUTLET TOWARD EXISTING SMH 5.
4. EXISTING SMH 5 - PLUS ALL INLETS AND OUTLETS. EXISTING CONCRETE VAULT SHALL DEMOLISHED TO 2 FEET BELOW PROPOSED FINISHED GRADE TO ALLOW FOR INSTALLATION OF PAVENT, AND THEN FILLED WITH PROCESSED CONCRETE. CUT ALL EXPOSED REBAR FLUSH WITH EXISTING CONCRETE.
5. EXISTING SMH 6 - REMOVE FRAME AND COVER, PLUS INLET AND OUTLETS, AND THEN FILL STRUCTURE WITH PROCESSED CONCRETE.
6. EXISTING SMH 7 - REMOVE VAULT CUB BLOCK WALLS AFTER NEW INSERTION SMH 7 IS INSTALLED. PLUS EXISTING 10" INLET FROM SEWER LINE "B". BACKFILL AREA TO FINISHED GRADE.
7. EXISTING SMH 17 - PLUS 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. 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 PINK SHADDED AREAS REPRESENT WHERE PAYMENT WILL BE RESURFACED AND THE RED CURB LINES REPRESENT WHERE CURBING WILL BE MODIFIED FROM THE ORIGINAL APPROVAL. ORANGE COLORED BUILINGS ARE PART OF THIS AMENDED SITE PLAN.

EXISTING UNDERGROUND UTILITY NOTES:

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 ATTENTION IMMEDIATELY.

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 BUMP 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 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).

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. 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 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 MONTHLY 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 UPFO 81-1-800-962-7962.
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 BITUMINOUS 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.

GRADING AND UTILITY PLAN

SCALE: 1" = 30'

GRAPHIC SCALE



| DRAINAGE STRUCTURE SCHEDULE |                   |                           |                 |                  |             |           |                 |                      |              |
|-----------------------------|-------------------|---------------------------|-----------------|------------------|-------------|-----------|-----------------|----------------------|--------------|
| STRUCTURE ID                | RM ELEVATION (FT) | INVERT (FROM CB# OR PIPE) |                 |                  | LENGTH (FT) | SLOPE (%) | PIPE # (INCHES) | DOWNSTREAM STRUCTURE |              |
|                             |                   | IN (FT)                   | IN (FT)         | OUT (FT)         |             |           |                 |                      |              |
| WOI 1                       | 145.0             |                           |                 | 140.54 (CB 11)   | 140.34      | 18        | 1.89            | 24                   | FES A        |
| CB 1                        | 146.8             |                           |                 | 142.13           | 141.88      | 110       | 0.50            | 18                   | CB 11        |
| CB 2                        | 145.9             |                           | 142.9 (YO 1)    | 142.8 (CB 3)     | 142.7       | 105       | 0.34            | 15                   | CB 1         |
| CB 3                        | 147.3             |                           |                 | 143.7            | 143.5       | 18        | 5.63            | 15                   | CB 2         |
| YO 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 (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)   | 140.83      | 57        | 0.50            | 24                   | WO 1         |
| CB 7                        | 147.0             |                           |                 | 144.0            | 13          | 1.00      | 15              |                      | UG 1         |
| WOI 2                       | 160.7             |                           | 157.7 (CB 8)    | 157.95 (EX CB A) | 156.6       | 5         | 2.00            | 15                   | UG DETENTION |
| CB 8                        | 162.5             |                           |                 | 159.5            | 102         | 1.76      | 18              |                      | WO 3         |
| CB 9                        | 160.85            |                           |                 | 158.7            | 158.6       | 45        | 1.44            | 12                   | WO 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    |
| YO 2                        | 147.0             |                           |                 | 145.1            | 166         | 0.50      | 12              |                      | YO 3         |
| YO 3                        | 147.8             |                           |                 | 144.17           | 144.17      | 20        | 0.50            | 12                   | CB 9         |
| FES A                       |                   |                           |                 |                  | 140.00      |           |                 |                      |              |
| UG DET.                     |                   |                           |                 |                  |             |           |                 |                      |              |
| CB 12                       | 145.3             |                           | 142.1 (DMH 1)   |                  | 156.5       | 158.37    | 7               | 2.37                 | (2) 8" PVC   |
|                             |                   |                           |                 |                  | 142.1       | 27        | 1.0             | 18                   | DMH 2        |

| SANITARY SEWER STRUCTURE SCHEDULE |                   |                            |              |             |             |           |                 |                      |          |
|-----------------------------------|-------------------|----------------------------|--------------|-------------|-------------|-----------|-----------------|----------------------|----------|
| STRUCTURE ID OR PIPE / STATION    | RM ELEVATION (FT) | INVERT (FROM SMH# OR PIPE) |              |             | LENGTH (FT) | SLOPE (%) | PIPE # (INCHES) | DOWNSTREAM STRUCTURE |          |
|                                   |                   | IN (FT)                    | IN (FT)      | OUT (FT)    |             |           |                 |                      |          |
| EX SMH 17                         | 147.82            |                            |              | 137.27      | 106         | 1.29      | 10              |                      | SMH 2    |
| EX SMH 11 & 12                    | 146.2             |                            | 137.87 (18") | 140.0 (12") | 137.87      | EXISTING  | 18              |                      | EX SMH 8 |
| SMH 2                             | 147.2             | 138.18 (18")               | 138.68 (10") | 140.0 (6")  | 138.18      | 157       | 0.197           | 18                   | SMH 1    |
| SMH 3                             | 148.0             | 138.34 (18")               |              |             | 138.34      | 76        | 0.211           | 18                   | SMH 2    |

- NOTES:
- 1) SMH = SEWER MANHOLE, LSE = LOW SEWER INVERT, VCP = VITRIFIED CLAY PIPE, EX = EXISTING
  - 2) PROPOSED SMH 1 AND SMH 3 ARE INSERTION (DOGHOUSE) MANHOLES
  - 3) PROPOSED SMH 1 WILL REQUIRE AN 8 LF EXTENSION TO BE PLACED ON THE END OF THE 12" VCP

FLOOD ELEVATION NOTES:

1. THE 100 YEAR FLOOD ELEVATION SHOWN ON THIS PLAN WAS TAKEN FROM FEMA FLOOD PANEL 360217 000464E, COMPLETED IN MAY 2, OF 2012.

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
- 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 MINOR CONTOUR
- 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

Owner:  
**Beacon HIP Lofts, LLC**  
39 Front Street  
Beacon, NY 12508

Architect:  
**Aryeh Siegel, Architect**  
514 Main Street  
Beacon, New York 12508

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

Landscape Design:  
**LQ Design**  
P.O. Box 244  
Beacon, NY 12508

Surveyor:  
**TEC Land Surveying**  
Main Street  
Beacon, New York 12508

Amendment to Special Use Permit  
Grading And Utility Plan

Sheet 6 of 10

**Beacon HIP Lofts**

Beacon, New York  
Scale: As Noted  
July 25, 2017