

LEGEND	
EXISTING PROPERTY LINE	---
PROPOSED PROPERTY LINE	---
PROPOSED SETBACK	---
ADJACENT PROPERTY LINE	---
PROPOSED EASEMENT	---
EXISTING CONTOUR	--- 200 ---
EXISTING HYDRANT	HYD
EXISTING UTILITY POLE	UTG 19
EXISTING SANITARY MANHOLE	S
EXISTING SANITARY MANHOLE	S
EXISTING STORM SEWER	---
EXISTING WATER MAIN	---
WETLAND BOUNDARY	WETLAND BOUNDARY
WETLAND IMPACT	WETLAND IMPACT
PROPOSED CONTOUR	--- 200 ---
PROPOSED SANITARY MANHOLE	S
PROPOSED SANITARY MAIN	---
PROPOSED SANITARY LATERAL	---
PROPOSED WATER MAIN	---
PROPOSED WATER SERVICE	---
PROPOSED STORM SEWER	---
PROPOSED CATCH BASIN	CB

SANITARY INSTALLATION NOTES:

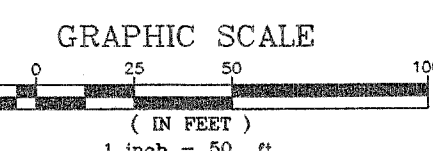
1. ALL GRAVITY PIPE SHALL BE SDR-26 SEWER PIPE SHALL MEET ASTM D-2241
2. INSTALLATION SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS, TOWN OF BETHELEH SPECIFICATIONS, AGENCY REQUIREMENTS, AND ALL APPLICABLE MANUFACTURERS SPECIFICATIONS.
3. BEDDING AND BACKFILL MATERIAL SHALL BE COMPACTED TO A MINIMUM OF 95% OF THE STANDARD PROCTOR DENSITY. ALL BACKFILL MATERIAL SHALL BE NYSDOT ITEM 203.07.
4. PRIOR TO ANY WORK ON THE SANITARY SEWER, THE CONTRACTOR SHALL OBTAIN THE NECESSARY PERMITS FROM THE TOWN SEWER DEPARTMENT.
5. ALL SANITARY SENSORS OR EXTENSIONS TO SANITARY SEWERS, INCLUDING MANHOLES, SHALL SATISFY REQUIREMENTS OF A FINAL INFILTRATION TEST BEFORE THEY WILL BE APPROVED AND WASTEWATER FLOW PERMITTED BY THE TOWN. THE INFILTRATION RATE SHALL NOT EXCEED 25 GALLONS PER 24 HOURS PER INCH NOMINAL DIAMETER IN INCHES. AN EXFILTRATION TEST MAY BE SUBSTITUTED FOR THE INFILTRATION TEST. THE SAME RATE SHALL NOT BE EXCEEDED. THE EXFILTRATION TEST SHALL BE PERFORMED BY THE APPLICANT, UNDER THE SUPERVISION OF THE SUPERINTENDENT, WHO SHALL HAVE THE RESPONSIBILITY FOR MAKING PROPER AND ACCURATE MEASUREMENTS REQUIRED. THE EXFILTRATION TEST CONSISTS OF FILLING THE PIPE WITH WATER TO PROVIDE A HEAD OF AT LEAST 5 FEET ABOVE THE TOP OF THE PIPE OR 5 FEET ABOVE GROUNDWATER, WHICHEVER IS HIGHER, AT THE HIGHEST POINT UNDER TEST, AND THEN MEASURING THE LOSS OF WATER FROM THE PIPE SECTION UNDER TEST. BY THE AMOUNT OF WATER WHICH MUST BE ADDED TO MAINTAIN THE ORIGINAL LEVEL. HOWEVER, UNDER NO CIRCUMSTANCES SHALL THE HEAD AT THE DOWNSIDE MANHOLE EXCEED TEN (10) FEET OR FILL TO WITHIN SIX (6) INCHES OF THE TOP OF THE DOWNSIDE MANHOLE. IN THIS TEST, THE TEST SECTION MUST REMAIN FILLED WITH WATER FOR AT LEAST 24 HOURS PRIOR TO TAKING ANY MEASUREMENTS. EXFILTRATION SHALL BE MEASURED BY THE DROP OF WATER LEVEL IN A STANDPIPE WITH A CLOSED BOTTOM END, OR IN ONE OF THE SEWER MANHOLES SERVING THE TEST SECTION, WHEN A STANDPIPE AND PLUG ARRANGEMENT IS USED IN THE UPPER MANHOLE IN THE TEST SECTION, THERE SHALL BE SOME POSITIVE METHOD FOR RELEASING ENTRAPPED AIR PRIOR TO TAKING ANY MEASUREMENTS.
6. ALSO PRIOR TO INFILTRATION / EXFILTRATION TESTING, ALL PLASTIC PIPE, IN THE TEST SECTION, SHALL BE TESTED FOR DEFLECTION. DEFLECTION TESTING SHALL INVOLVE THE PULLING OF A RIGID BALL OR MANHOLE, WHOSE DIAMETER IS 95 PERCENT OF THE PIPE INSIDE DIAMETER, THROUGH THE PIPE. ANY LENGTH OF PIPE WITH A DEFLECTION GREATER THAN 5 PERCENT SHALL BE REPLACED. THE TEST SECTION SHALL BE FLUSHED JUST PRIOR TO DEFLECTION TESTING. THE TEST SHALL NOT BE PERFORMED WITH A MECHANICAL PULLING DEVICE.
7. ALL FORCE MAINS SHALL BE SUBJECTED TO HYDROSTATIC PRESSURE OF 150 PERCENT OF THE NORMAL OPERATING PRESSURE. THE DURATION OF THE TEST, AT PRESSURE, SHALL BE AT LEAST 2 HOURS. BEFORE CONDUCTING THE TEST, THE PIPE SHALL BE FILLED WITH WATER AND ALL AIR SHALL BE EXPELLED. DURING THE TEST, WATER SHALL BE ADDED, AS NEEDED, TO MAINTAIN THE AMOUNT OF WATER ADDED SHALL BE RECORDED SO AS TO CALCULATE LEAKAGE. LEAKAGE SHALL NOT EXCEED 25 GALLONS PER DAY PER INCH NOMINAL PIPE DIAMETER. DURING THE TEST, THE OWNER AND THE SUPERINTENDENT SHALL WALK THE ROUTE OF THE FORCE MAIN AND EXAMINE THE EXPOSED PIPE AND THE GROUND COVERING ANY BACKFILLED PIPE TO DISCOVER LEAKS. LEAKAGE IN EXCESS OF THAT SPECIFIED ABOVE SHALL BE CORRECTED WITH NEW MATERIAL AT THE OWNER'S EXPENSE AND THE TEST REPEATED. ANY OBSERVED LEAKS SHALL BE REPAIRED AT THE OWNER'S EXPENSE. EACH TEST SECTION LENGTH SHALL BE AS APPROVED BY THE SUPERINTENDENT, BUT IN NO EVENT LONGER THAN ONE THOUSAND (1,000) FEET.

WATER SUPPLY NOTES:

1. ALL WATER MAINS SHALL BE CL 250 DUCTILE IRON PIPE WITH PUSH ON JOINTS. ALL FITTINGS SHALL HAVE A PRESSURE RATING OF 250 PSI.
2. PER THE LATEST EDITION OF AWWA STANDARD C600-99, THE WATER MAIN SHALL BE HYDROSTATIC PRESSURE TESTED AT 150 PSI FOR 2 HOURS. THE TEST PRESSURE SHALL BE APPLIED TO WATER MAINS ONLY. AFTER THE SPECIFIED PRESSURE TEST HAS COMPLETED AND ANY AND ALL REPAIRS HAVE BEEN MADE, THE WATER MAIN SHALL BE SUBJECTED TO A LEAKAGE TEST.
3. THE WATER LINE SHALL BE FLUSHED AND DISINFECTED PRIOR TO BACTERIOLOGICAL TESTING. CHLORINE LEVELS SHALL BE MEASURED DURING BACTERIOLOGICAL TESTING AND REFLECT NORMAL OPERATING LEVELS. THE WATERLINES CANNOT BE PUT ON-LINE UNTIL TWO CONSECUTIVE DAYS WITH GOOD RESULTS HAVE BEEN COMPLETED AND TEST RESULTS HAVE BEEN RECEIVED BY THE NEW YORK STATE DEPARTMENT OF HEALTH. DISINFECTION SHALL BE PERFORMED IN ACCORDANCE WITH AWWA C651.99.
4. WATER MAINS AND SEWERS SHALL BE LOCATED SUCH THAT AN 18 INCH VERTICAL SEPARATION IS MAINTAINED AT POINTS WHERE THEY CROSS. ALSO, A 10'-0" HORIZONTAL DISTANCE BETWEEN THE TWO SHALL BE MAINTAINED IN AREAS WHERE THEY RUN PARALLEL. AT CROSSINGS, ONE FULL LENGTH OF WATER PIPE SHALL BE LOCATED SO THAT BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE.
5. WATERWORKS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL STANDARDS AND SPECIFICATIONS. WATERLINE INSTALLATION SHALL BE IN ACCORDANCE WITH AWWA C600-99.
6. WATER SERVICE TO EACH BUILDING SHALL BE PROVIDED USING 3/4" TYPE K COPPER PIPE.
7. ALL D.I. PIPE TO BE USED SHALL MEET ALL APPROPRIATE AWWA STANDARDS.
8. PRESSURE AND LEAKAGE TEST SHALL BE PERFORMED ON THE WATER SYSTEM, AND RESULTS SHALL CONFORM TO ALL APPROPRIATE AWWA STANDARDS.
9. INDIVIDUAL WATER SERVICES TO BE INSTALLED AND METERED AS REQUIRED BY THE TOWN.
10. ALL WATERLINE MATERIALS SHALL BE IN COMPLIANCE WITH TOWN SPECIFICATIONS.
11. WATER MAIN INSTALLATION SHALL BE IN COMPLIANCE WITH TOWN SPECIFICATIONS AND COORDINATED WITH THE APPROPRIATE AUTHORITIES. ALL MANUFACTURER'S DATA FOR VALVES, FITTINGS, HYDRANTS, AND APPURTENANCES SHALL BE SUBMITTED TO THE TOWN OF BETHELEH FOR REVIEW AND APPROVAL.
12. STERILIZATION & TESTING
- THE TOWN SHALL BE NOTIFIED AND HAVE A REPRESENTATIVE PRESENT FOR CHLORINATION
- MAINS TO BE FLUSHED AND CHLORINATED, A CHLORINE RESIDUAL OF NOT LESS THAN 50ppm SHALL BE MAINTAINED FOR 24 HRS.
- MAINS SHALL BE TESTED AT 150 PSI PRESSURE AT WHICH THEY SHALL NOT LOSE MORE THAN 0.74 GALLONS OF WATER PER 2 HOURS PER 1,000 FEET.

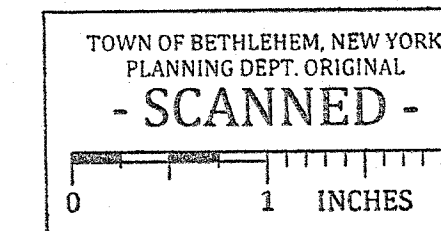
NOTE: 48 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL CONTACT DIO SATELY NEW YORK TO LOCATE ALL UNDERGROUND UTILITIES. 1-800-962-7962

FOR MUNICIPAL APPROVAL ONLY
NOT FOR CONSTRUCTION



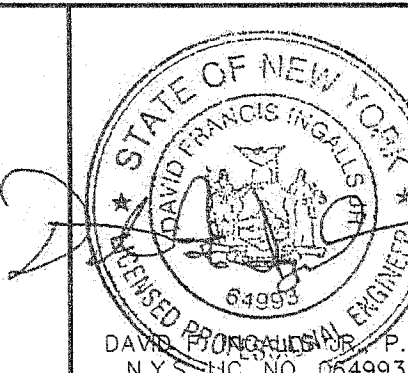
ALBANY COUNTY DEPARTMENT OF HEALTH
DIVISION OF ENVIRONMENTAL HEALTH SERVICE
By direction of the Commissioner of Health, these plans are hereby approved. See first sheet for date and signature.

ALBANY COUNTY HEALTH DEPARTMENT APPROVAL



PLANNING BOARD
TOWN OF BETHELEH
ALBANY COUNTY, NEW YORK
By direction of the Chairman,
These drawings are hereby approved.
See sheet(s) 1-5
for date and signature

BETHELEH PLANNING BOARD APPROVAL



ingalls

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ALBANY COUNTY TOWN OF BETHELEH
STATE OF NEW YORK
DATE: NOVEMBER 24, 2015 CHECKED BY: J.F. JOB NO. 13-062
DRAWN BY: C.D.L. CAD FILE: 13-062 Utilities.dwg
SCALE: 1"=50'
SHEET 5 OF 13

NO.	DATE	REVISIONS	BY
6	5/1/17	REVISED LOT 2, 3 & 4	J.P.J.
5	4/2/17	ISSUED FOR FINAL PLAT APPROVAL	JCH
4	1/19/17	REVISED PER TOWN COMMENTS	JCH
3	1/15/17	REVISED PER TOWN & TDC COMMENTS	JCH
2	10/1/16	REVISED PER TOWN & TDC COMMENTS	JCH
1	5/13/16	REVISED PER TOWN & TDC COMMENTS	C.D.L.
NO.	DATE	REVISIONS	BY