DEMOLITION NOTES:

1. ALL REMOVALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR FOR PROPER DISPOSAL.
2. THE CONTRACTOR SHALL NOT DISTURB WORK WITHIN OR ALLOW ACCESS OVER ANY AREAS OUTSIDE OF THE LIMITS OF DISTURBANCE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DELINEATE AND PROTECT ALL AREAS OUTSIDE THE LIMITS OF DISTURBANCE WITH CONSTRUCTION FENCING, SIGNAGE, ETC.
3. INSTALL SILT FENCING PRIOR TO ANY DEMOLITION ACTIVITIES AS SHOWN ON SHEET C-101.
4. UNLESS OTHERWISE NOTED REMOVE ALL EXISTING UTILITIES AND SERVICES NOT TO BE USED. DO NOT ABANDON IN PLACE UNLESS NOTED.
5. PROVIDE, ERECT, AND MAINTAIN TEMPORARY BARRIERS AND SECURITY DEVICES.
6. MAINTAIN EXISTING UTILITIES TO REMAIN IN SERVICE AND PROTECT THEM AGAINST DAMAGE DURING SELECTIVE DEMOLITION OPERATIONS. DO NOT INTERRUPT EXISTING UTILITIES SERVING OPERATING FACILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY OWNER AND AUTHORITIES HAVING JURISDICTION.
7. NOTIFY ADJACENT OWNERS OF WORK THAT MAY AFFECT THEIR PROPERTY, POTENTIAL NOISE, UTILITY OUTAGE, OR DISRUPTION. COORDINATE WITH OWNER.
8. PREVENT MOVEMENT OR SETTLEMENT OF ADJACENT STRUCTURES. PROVIDE BRACING AND SHORING.
9. LOCATE AND IDENTIFY ALL EXISTING UTILITIES WITHIN THE CONSTRUCTION AREA. DISCONNECT AND SEAL OR CAP OFF UTILITY SERVICES THAT WILL BE AFFECTED BY THIS PROJECT. NOTIFY AFFECTED UTILITY COMPANIES BEFORE STARTING WORK AND COMPLY WITH THEIR REQUIREMENTS. VERIFY THAT UTILITIES HAVE BEEN DISCONNECTED AND CAPPED.
10. PROTECT EXISTING FEATURES THAT ARE NOT TO BE DEMOLISHED.
11. CONDUCT OPERATIONS WITH MINIMUM INTERFERENCE TO PUBLIC OR PRIVATE ACCESSES.
12. MAINTAIN EGRESS AND ACCESS AT ALL TIMES. DO NOT CLOSE OR OBSTRUCT ROADWAYS OR SIDEWALKS WITHOUT PERMITS.
13. CEASE OPERATIONS IMMEDIATELY IF ADJACENT STRUCTURES APPEAR TO BE IN DANGER. NOTIFY AUTHORITY HAVING JURISDICTION.
14. ROUGH GRADE AND COMPACT AREAS AFFECTED BY DEMOLITION TO MAINTAIN SITE GRADES AND CONTOURS.
15. FIELD VERIFY EXISTING CONDITIONS AND CORRELATE WITH REQUIREMENTS INDICATED ON DEMOLITION PLAN TO DETERMINE EXTENT OF SELECTIVE DEMOLITION REQUIRED.
16. CONDUCT DEMOLITION OPERATIONS TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT BUILDINGS AND FACILITIES TO REMAIN. ENSURE SAFE PASSAGE OF PEOPLE AROUND SELECTIVE DEMOLITION AREA.
17. USE WATER MIST, TEMPORARY ENCLOSURES AND OTHER SUITABLE METHODS TO LIMIT THE SPREAD OF DUST AND DIRT. COMPLY WITH GOVERNING ENVIRONMENTAL PROTECTION REGULATIONS. DO NOT USE WATER WHEN IT MAY DAMAGE EXISTING CONSTRUCTION, SUCH AS ICE, FLOODING, AND POLLUTION.
18. REMOVE AND TRANSPORT DEBRIS IN A MANNER THAT WILL PREVENT SPILLAGE ON ADJACENT SURFACES AND AREAS.
19. CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF DUST, DIRT AND DEBRIS CAUSED BY SELECTIVE DEMOLITION OPERATIONS. RETURN ADJACENT AREAS TO CONDITION EXISTING BEFORE START OF SELECTIVE DEMOLITION.
20. PROMPTLY DISPOSE OF DEMOLISHED MATERIALS. DO NOT ALLOW DEMOLISHED MATERIALS TO ACCUMULATE ON-SITE. DO NOT BURN DEMOLISHED MATERIALS ON-SITE.
21. THE CONTRACTOR SHALL NOTIFY "DIG SAFE NEW YORK" AT (800) 962-7962 AT LEAST TWO FULL WORKING DAYS PRIOR TO COMMENCEMENT OF ANY WORK IN ACCORDANCE WITH UFPO CODE RULE 53. 16 NYCRR PART.
22. ANY ITEM THAT MAY CONFLICT WITH SITE DEVELOPMENT AND IS NOT IDENTIFIED ON THIS PLAN SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AS SOON AS POSSIBLE.
23. ANY ITEM IDENTIFIED TO BE RELOCATED SHALL BE CAREFULLY REMOVED AND STORED BY THE DEMOLITION CONTRACTOR UNTIL REQUESTED FOR REINSTALLATION.
24. THE CONTRACTOR SHALL RESTORE ANY UTILITY STRUCTURE, PIPE UTILITY, PAVEMENT, CURBS, SIDEWALKS, DRAINAGE STRUCTURE, SWALE OR LANDSCAPED AREAS DISTURBED DURING DEMOLITION TO THEIR ORIGINAL CONDITION OR BETTER TO THE SATISFACTION OF THE OWNER, AND LOCAL MUNICIPALITIES.
25. THE DEMOLITION CONTRACTOR PRIOR TO START OF WORK, SHALL INSTALL AND KEEP EROSION CONTROL MEASURES IN PLACE UNTIL THE COMMENCEMENT OF SITE DEVELOPMENT CONSTRUCTION, OR AS DEEMED NECESSARY BY THE ENGINEER.
26. UTILITY LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATELY LOCATED FROM FIELD SURVEYS OR UTILITY COMPANY RECORDS. IT SHALL BE THE DEMOLITION CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE EXACT LOCATION AND DEPTH OF ALL UTILITY LINES PRIOR TO START OF DEMOLITION.

CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL PROVIDE VEHICULAR AND PEDESTRIAN ACCESS TO ALL PROPERTIES AT ALL TIMES.
2. THE CONTRACTOR SHALL BARRICADE AND PROPERLY SECURE THE CONSTRUCTION SITE. THE CONTRACTOR SHALL KEEP THE CONSTRUCTION SITE IN A CLEAN AND ORDERLY FASHION EACH DAY AFTER THE WORK HAS STOPPED.
3. THE CONTRACTOR SHALL PROTECT AND MAINTAIN EXISTING CONDITIONS FROM CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL AVOID DISTURBING AREAS SHOWN TO REMAIN UNALTERED ON THE TOWN APPROVED PLANS. THE RESTORATION OF DISTURBED AREAS SHALL BE TO A CONDITION EQUAL TO OR BETTER THAN PRIOR TO CONSTRUCTION.

UTILITY NOTES:

1. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS.
2. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ALL UTILITIES, WHETHER IN THE GROUND OR OVERHEAD. THE CONTRACTOR SHALL NOTIFY "DIG SAFE NEW YORK" AT (800) 962-7962 AT LEAST TWO FULL WORKING DAYS PRIOR TO COMMENCEMENT OF ANY WORK.
3. LOCATION OF EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION.
4. SIZE OF WATER SERVICE LINE TO BE VERIFIED BY MECHANICAL, ELECTRICAL, PLUMBING (MEP) DESIGNER FOR THE BUILDINGS.
5. WATER SERVICE BACKFLOW PREVENTION SHALL BE PROVIDED WITHIN BUILDINGS PER LOCAL CODE.

STORMWATER NOTES:

1. STORM SEWER PIPE SHALL BE "HIGH-DENSITY, CORRUGATED POLYETHYLENE" PIPE (HDPE) WITH SMOOTH INTERIOR WALLS, UNLESS OTHERWISE NOTED.
2. ALL ROOF LEADERS SHALL BE CONNECTED TO STORM WATER COLLECTION SYSTEM, UNLESS OTHERWISE NOTED.
3. ROOF DRAINS SHOWN HEREON FOR COORDINATION PURPOSES ONLY. DESIGN AND CONSTRUCTION BY OTHERS.
4. MAINTENANCE OF THE STORMWATER SYSTEM AND MANAGEMENT FACILITIES SHALL BE PERFORMED IN ACCORDANCE WITH THE "STORMWATER POLLUTION PREVENTION PLAN" AND RELATED DETAIL SHEETS.

WATER NOTES:

1. THE WATER MAIN SHALL BE INSTALLED AT A CONTINUOUS GRADE WITH NO ABRUPT HIGH POINTS OR LOW POINTS.
2. ALL WATER LINES SHALL BE CEMENT-LINED DUCTILE IRON PIPE (DI), CLASS 52, UNLESS OTHERWISE SPECIFIED OR APPROVED BY THE TOWN OF BETHLEHEM. ALL WATER MAIN CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS OF THE TOWN OF BETHLEHEM AND TOWN ENGINEER.
3. THE WATER MAIN MAY BE FLEXED WITHIN PIPE SPECIFICATION OR LAID DEEPER IN AREAS WHERE CROSSINGS OF THE SANITARY SEWER OR STORM SEWER OCCUR TO ACHIEVE THE REQUIRED 1.5' VERTICAL SEPARATION DISTANCE. REFER TO THE 'WATERLINE OFFSET' DETAIL.
4. TOWN OF BETHLEHEM AND TOWN ENGINEER SHALL BE NOTIFIED 48 HOURS PRIOR TO PRESSURE AND LEAKAGE TESTING OF THE WATER MAIN.
5. ALL NEW WATER MAIN INSTALLATIONS SHALL BE HYDROSTATICALLY TESTED PER AWWA STANDARD C 600 (LATEST REVISION) AT A PRESSURE OF 150 PSI. ALLOWABLE LEAKAGE SHALL BE AS DEFINED IN SECTION 5.2 OF SAID AWWA SPECIFICATION.
6. APPROVED AND TESTED WATER MAIN SHALL BE DISINFECTED PER AWWA SECTION C 651, AS DIRECTED BY THE TOWN OF BETHLEHEM AND TOWN ENGINEER.
7. ALL FACILITIES SHALL BE CONSTRUCTED WITH WATER CONSERVING PLUMBING FIXTURES.
8. WATER MAIN TESTING SHALL BE PERFORMED UNDER THE SUPERVISION OF THE PROJECT ENGINEER, TOWN ENGINEER, AND THE TOWN OF BETHLEHEM. CERTIFICATIONS SHALL BE SUBMITTED TO THE TOWN OF BETHLEHEM AND TOWN ENGINEER PRIOR TO THE TOWN ALLOWING THE USE OF THE SYSTEM.
9. EACH BUILDING SHALL BE EQUIPPED WITH A BACKFLOW PREVENTOR.
10. THE UNDERGROUND SITE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL BURIED PIPING TO THE LOCATION OF THE PROPOSED BUILDING CONNECTION POINT (I.E. INSIDE THE BUILDING). THIS INCLUDES THE TESTING AND CERTIFICATION OF ALL WATER SERVICE WORK FROM THE TOWN WATER CONNECTION POINT TO THE PROPOSED BUILDING INTERIOR CONNECTION POINT.

WATER MAIN TESTING:

1. AFTER TRENCH HAS BEEN BACKFILLED, HYDROSTATIC ACCEPTANCE TESTS, CONSISTING OF A PRESSURE TEST AND A LEAKAGE TEST, SHALL BE PERFORMED ON ALL SECTIONS OF WATER MAINS INSTALLED. LEAKAGE TEST SHALL BE CONDUCTED CONCURRENTLY WITH PRESSURE TEST. TEST SECTION SHALL BE LIMITED TO ABOUT 2000 FT (MAX.) UNLESS OTHERWISE APPROVED BY THE ENGINEER.
2. AFTER ALL TESTS AND INSPECTIONS HAVE BEEN PERFORMED EVIDENCE OF COMPLIANCE SHALL BE FORWARDED TO OWNER/ENGINEER AND THE MUNICIPALITY PRIOR TO ACCEPTANCE.
3. ALL WATER FOR TESTS SHALL BE FURNISHED AND DISPOSED OF BY CONTRACTOR AT THE CONTRACTOR'S EXPENSE. SOURCE AND/OR QUALITY OF WATER WHICH THE CONTRACTOR PROPOSES TO USE IN TESTING LINES SHALL BE ACCEPTABLE TO THE ENGINEER.
4. HYDROSTATIC PRESUMPTIVE TESTS MAY BE PERFORMED WHEN SYSTEM IS PARTIALLY BACKFILLED TO SIMPLY CHECK WORK, BUT ACCEPTANCE OF SYSTEM SHALL BE BASED ON HYDROSTATIC TESTS RUN ON FINISHED SYSTEM AFTER IT HAS BEEN COMPLETELY BACKFILLED. ALL HYDROSTATIC TESTS SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 4 OF AWWA STANDARD C651 CURRENT ADDITION.
5. FOR THE PRESSURE TEST, SYSTEM SHALL BE PRESSURIZED AND MAINTAINED AT A MINIMUM PRESSURE OF 150 PSI, OR 1.5 TIMES THE WORKING PRESSURE, WHICHEVER IS GREATER, BASED ON THE ELEVATION OF THE LOWEST POINT IN THE SECTION UNDER TEST AND CORRECTED TO ELEVATION OF THE GAUGE. PROVISIONS SHALL BE MADE TO RELIEVE AIR TRAPPED AT HIGH POINTS IN THE SYSTEM THROUGH ADJACENT HYDRANTS OR THROUGH TAPS AND CORPORATION STOPS INSTALLED FOR THIS PURPOSE BY THE CONTRACTOR. AFTER SAID PRESSURE HAS BEEN MAINTAINED SUCCESSFULLY, WITH FURTHER PUMPING AS REQUIRED, FOR A PERIOD OF AT LEAST 2 HOURS, THE SECTION OF THE TEST SHALL BE CONSIDERED TO HAVE PASSED THE PRESSURE TEST.
6. LEAKAGE TEST SHALL BE PERFORMED CONCURRENTLY USING A MINIMUM TEST PRESSURE OF 150 PSI, OR 1.5 TIMES THE WORKING PRESSURE, WHICHEVER IS GREATER, BASED ON THE ELEVATION OF THE LOWEST POINT IN THE SECTION UNDER TEST AND CORRECTED TO ELEVATION OF THE GAUGE. LEAKAGE TEST DURATION SHALL BE A MINIMUM OF 2 HOURS AFTER LEAKAGE RATE HAS STABILIZED.
7. THE MAXIMUM ALLOWABLE LEAKAGE (GPM) SHALL BE SHOWN IN THE FOLLOWING TABLE: ALLOWABLE LEAKAGE IN GALLONS PER 1,000 FT (305 M) OF PIPELINE (GPH).

AVG TEST PRESSURE	NOMINAL PIPE DIAMETER (IN)				
PSI (BAR)	4	6	8	10	12
450 (31)	0.64	0.95	1.27	1.59	1.91
400 (28)	0.60	0.90	1.20	1.50	1.80
350 (24)	0.56	0.84	1.12	1.40	1.69
300 (21)	0.52	0.78	1.04	1.30	1.56
275 (19)	0.50	0.75	1.00	1.24	1.49
250 (17)	0.47	0.71	0.95	1.19	1.42
225 (16)	0.45	0.68	0.90	1.13	1.35
200 (14)	0.43	0.64	0.85	1.06	1.28
175 (12)	0.40	0.59	0.80	0.99	1.19
150 (10)	0.37	0.55	0.74	0.92	1.10
125 (9)	0.34	0.50	0.67	0.84	1.01
100 (7)	0.30	0.45	0.60	0.75	0.90

8. IF LEAKAGE IN SYSTEM EXCEED THE SPECIFIED AMOUNT, THE CONTRACTOR SHALL AT NO ADDED COST TO THE OWNERS, LOCATE, REPAIR, AND/OR REPLACE DEFECT(S) AND RETEST PIPING SYSTEM.

DISINFECTION OF POTABLE WATER MAINS:

1. DISINFECTION WILL BE ACCOMPLISHED AFTER PIPE HAS PASSED ANY LEAKAGE TESTS.
2. THE MUNICIPALITY AND THE ENGINEER SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO THE START OF PRESSURE TESTING, LEAKAGE TESTING AND DISINFECTION.
3. DISINFECTION WILL BE PERFORMED IN ACCORDANCE WITH AWWA STANDARD C651 LATEST EDITION. EXCLUDING SECTION 5.1 COVERING THE TABLET METHOD.
4. CHLORINE-WATER SOLUTION IS PREPARED BY ADDING SODIUM HYPOCHLORITE TO WATER IN ACCORDANCE WITH THE FOLLOWING TABLE (VERIFY AGAINST TOWN REQUIREMENTS): CHLORINE REQUIRED TO PRODUCE 25 MG/L CONCENTRATION IN 100 FT OF PIPE BY DIAMETER

PIPE SIZE (IN)	1000 PERCENT CHLORINE (LB)	1 PERCENT CHLORINE SOLUTIONS (GAL)
6	0.030	0.36
8	0.054	0.65

NOTE: 1% SOLUTIONS REQUIRE 1 LB. OF SODIUM HYPOCHLORITE IN 8 GAL OF WATER.

5. PRODUCT DETERIORATION MUST BE CONSIDERED IN COMPUTING THE QUANTITY OF SODIUM HYPOCHLORITE REQUIRED FOR THE DESIRED CONCENTRATION.
6. CHLORINE-WATER SOLUTION SHALL BE INTRODUCED INTO THE WATER MAIN WITH A GASOLINE OR ELECTRICALLY POWERED CHEMICAL FEED PUMP DESIGNED FOR FEEDING CHLORINE SOLUTIONS. FEED LINES SHALL BE OF SUCH MATERIAL AND STRENGTH TO PERMIT THEM TO WITHSTAND SAFELY THE MAX PRESSURE THAT MAY BE CREATED BY PUMP. ALL CONNECTIONS SHALL BE CHECKED FOR TIGHTNESS BEFORE HYPOCHLORITE SOLUTION IS APPLIED TO MAIN.
7. THE CONTRACTOR SHALL FURNISH AND INSTALL A CORPORATION STOP JUST DOWNSTREAM FROM THE NEWLY INSTALLED GATE VALVE OR AS OTHERWISE SHOWN ON DRAWINGS OR APPROVED BY ENGINEER.
8. GENERALLY, THE FOLLOWING PROCEDURE SHALL BE USED TO DISINFECT THE NEW MAIN. THE CONTRACTOR SHALL HOWEVER, REVIEW THEIR PROPOSED PROCEDURES WITH THE ENGINEER AT LEAST 48 HOURS PRIOR TO THE START OF DISINFECTION. ALL DISINFECTION PROCEDURES MUST BE APPROVED BY THE ENGINEER BEFORE DISINFECTION STARTS.
   A. ALL GATE VALES AND HYDRANTS MUST BE CLOSED. THE NEW MAIN SHOULD ALREADY BE FULL OF WATER FROM THE HYDROSTATIC TESTS; IF NOT, IT SHALL BE FILLED.
   B. MIX CHLORINE-WATER SOLUTION IN 55 GALLON DRUMS; CONNECT FEED LINE TO PUMP AND NEW MAIN.
   C. OPEN GATE VALVE ON THE HYDRANT LEAD OF END HYDRANT; THEN OPEN HYDRANT FULLY. (NOTE: HYDRANT MUST ALWAYS BE EITHER FULLY OPEN OR FULLY CLOSED. THE HYDRANT FLOW MAY BE CONTROLLED BY THROTTLING THE GATE VALVE ON THE HYDRANT LEAD).
   D. START PUMPING CHLORINE-WATER SOLUTION INTO WATER MAIN; THEN OPEN UPSTREAM GATE VALVE SLOWLY UNTIL FLOW FROM HYDRANT IS PROPORTIONATE TO THE AMOUNT OF CHLORINE-WATER SOLUTION BEING PUMPED (30 PARTS WATER TO 1 PART CHLORINE-WATER SOLUTION). IF A WATER METER IS NOT AVAILABLE, DISCHARGE RATE MAY BE DETERMINED USING EITHER A PITOT GAUGE IN THE DISCHARGE OR BY MEASURING THE TIME TO FILL A CONTAINER OF KNOW VOLUME (SUCH AS A 55 GAL. BARREL). THE PUMPING RATE CAN BE DETERMINED BY MEASURING THE DROP IN LIQUID LEVEL IN A GIVEN LENGTH OF TIME. (NOTE: A STANDARD 55 GAL. STEEL BARREL CONTAINS 19.75 GAL/FT OF DEPTH OR 1.64 GAL/IN OF DEPTH).
   E. AFTER HYDRANT FLOW AND PUMPING RATE HAVE BEEN ADJUSTED, MAINTAIN A CONSTANT FLOW SO THAT CHLORINE CONCENTRATION IN THE MAIN IS MAINTAINED AT A MINIMUM OF 25 PPM.
   F. PERIODICALLY CHECK HYDRANT DISCHARGE FOR CHLORINE CONCENTRATION BY USING A FIELD CHLORINE RESIDUAL TEST KIT. MAINTAIN HYDRANT DISCHARGE AND PUMPING RATE UNTIL THE MINIMUM CHLORINE CONCENTRATION OF 25 PPM HAS BEEN ACHIEVED THROUGHOUT THE ENTIRE MAIN.
   G. AFTER THE REQUIRED CONCENTRATION HAS BEEN ACHIEVED, ALL VALVES AND HYDRANTS ON THE MAIN LINE BETWEEN THE UPSTREAM GATE VALVE AND DISCHARGE HYDRANT SHALL BE OPERATED IN ORDER TO DISINFECT THE INTERNAL APPURTENANCES. DO NOT OPERATE ANY GATE VALVE THAT IS LOCATED ON A CONNECTION TO AN EXISTING MAIN THAT IS IN SERVICE.
9. AFTER THE ENGINEER HAS TAKEN A WATER SAMPLE AND VERIFIED THE MINIMUM 25 PPM CHLORINE CONCENTRATION, THE CONTRACTOR SHALL RETAIN THE CHLORINATED WATER IN THE MAIN BY THE FOLLOWING METHOD:
   A. FIRST, CLOSE THE UPSTREAM GATE VALVE.
   B. SECOND, CLOSE THE DISCHARGE HYDRANT.
   C. THIRD, SHUT OFF THE PUMP.
10. CHLORINATED WATER SHALL REMAIN IN THE MAIN FOR A MINIMUM OF 24 HOURS.
11. IF THE CHLORINE RESIDUAL IS LESS THAN 10 PPM, REPEAT SYSTEM TREATMENT.
12. ANY SECTION OF PIPE, VALVES, OR FITTINGS, INCLUDING TAPPING SLEEVES AND VALVES WHICH ARE INSTALLED OUTSIDE THE LIMITS OF THE SYSTEM SUBJECTED TO THE CHLORINATION PROCEDURES SPECIFIED ABOVE, SHALL BE SPRAYED OR SWABBED WITH A 1% HYPOCHLORITE SOLUTION PRIOR TO INSTALLATION.
13. AFTER THE ENGINEER HAS TAKEN A WATER SAMPLE AND VERIFIED THE MINIMUM 10 PPM CHLORINE RESIDUAL, CONTRACTOR SHALL THOROUGHLY FLUSH CHLORINATED WATER FROM THE MAIN BY THE FOLLOWING METHOD:
   A. FIRST, OPEN THE DISCHARGE HYDRANT.
   B. SECOND, OPEN THE UPSTREAM GATE VALVE.
   C. THIRD, OPEN ANY HYDRANTS ON THE MAIN LINE TO REMOVE ALL CHLORINATED WATER FROM THE HYDRANT LEADS.
14. FLUSH THE MAIN WITH POTABLE WATER IN SUCH A MANNER THAT SHALL NOT ADVERSELY AFFECT FISH, PLANT, OR ANIMAL LIFE.
15. THE QUANTITY AND LOCATION OF WATER SAMPLES TO BE TAKEN SHALL BE DETERMINED BY THE ENGINEER.
16. WATER SAMPLES SHALL BE TAKEN BY THE CONTRACTOR IN STERILIZED BOTTLES.
17. ANALYZE WATER SAMPLES IN ACCORDANCE WITH STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER, 14TH EDITION, PUBLISHED BY AWWA, 6666 WEST QUINCY AVE., DENVER, CO 80235.
18. IF A BACTERIOLOGICAL TEST PROVES THE WATER QUALITY TO BE UNACCEPTABLE; REPEAT SYSTEM TREATMENT.
19. IF A BACTERIOLOGICAL TEST PROVES WATER TO BE ACCEPTABLE; REMOVE FEED LINE AND CORPORATION STOP. CORPORATION STOP WILL BE REPLACED WITH THREADED BRASS PLUG UNLESS OTHERWISE DIRECTED BY ENGINEER.
20. SAMPLES MUST BE BACTERIOLOGICALLY SAFE BEFORE WATER MAIN IS PLACED IN SERVICE.

EROSION AND SEDIMENT CONTROL NOTES:

1. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE IN STRICT COMPLIANCE WITH THE "NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL" CURRENT EDITION.
2. ESTABLISH THE LIMIT OF DISTURBANCE FOR ANY PROPOSED SITE CLEARING OR GRADING.
3. ESTABLISH THE LOCATION OF PROPOSED EROSION AND SEDIMENT CONTROL MEASURES (STABILIZED CONSTRUCTION ENTRANCE, SILT FENCE, TOPSOIL STOCKPILE AREA, ETC.). CLEAR SAID LOCATION FOR INSTALLATION.
4. INSTALL STABILIZED CONSTRUCTION ENTRANCE.
5. INSTALL SEDIMENT BARRIERS AND TRAPS (SILT FENCE, BASIN TRAPS, OUTLET PROTECTION, ETC.). INSTALL ADDITIONAL TRAPS AND BARRIERS AS NEEDED DURING GRADING.
6. INSTALL RUNOFF CONTROL MEASURES (DIVERSIONS, OUTLET PROTECTION, ETC.). INSTALL ADDITIONAL RUNOFF CONTROL MEASURES AS NEEDED DURING GRADING.
7. CLEAR AND GRADE THE PROPOSED AREA OF DISTURBANCE.
8. EXCESS SOIL TO BE STOCKPILED WITHIN THE LIMITS OF SITE DISTURBANCE IF NOT USED IMMEDIATELY FOR GRADING PURPOSES. INSTALL SILT FENCE AROUND SOIL STOCKPILES.
9. APPLY SURFACE STABILIZATION MEASURES. AREAS UNDERGOING CLEARING OR GRADING AND WHERE WORK IS DELAYED OR COMPLETED AND WILL NOT BE REDISTURBED FOR 21 DAYS OR MORE SHOULD BE STABILIZED WITH TEMPORARY OR PERMANENT VEGETATIVE COVER WITHIN 14 DAYS.
10. SEEDED AREAS TO BE MULCHED WITH STRAW OR HAY MULCH. SPREAD UNIFORMLY AT A RATE OF 2 TONS PER ACRE.
11. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES THROUGHOUT THE COURSE OF CONSTRUCTION.
12. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST BY SPRINKLING EXPOSED SOIL AREAS PERIODICALLY WITH WATER AS REQUIRED. THE CONTRACTOR IS TO SUPPLY ALL EQUIPMENT AND WATER.
13. WHEN ALL DISTURBED AREAS ARE STABLE, ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED.

SPDES GENERAL PERMIT GP-0-08-001 COMPLIANCE NOTES:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH THE FOLLOWING:

1. THE CONTRACTOR AND HIS/HER SUBCONTRACTORS SHALL READ AND UNDERSTAND THE CONDITIONS OF THE "NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC) STATE POLLUTANT DISCHARGE ELIMINATION (SPDES) GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES" GP-0-08-001 FOR THIS PROJECT.
2. THE CONTRACTOR AND HIS/HER SUBCONTRACTORS SHALL SIGN A COPY OF THE GENERAL PERMIT GP-0-08-001 CERTIFICATION STATEMENT AS IDENTIFIED IN APPENDICES OF THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP).
3. THE OWNER/OPERATOR SHALL FILE A NOTICE OF INTENT (NOI) WITH THE NYSDEC PRIOR TO THE COMMENCING OF CONSTRUCTION ACTIVITIES.
4. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS NECESSARY FOR THE WORK OUTLINED WITHIN THE SWPPP AND PLANS.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF ALL SWPPP MEASURES OUTLINED IN THE SWPPP AND PROJECT DRAWINGS.
6. THE CONTRACTOR SHALL HOLD A PRECONSTRUCTION CONFERENCE WITH THE OWNER AND/OR OWNER'S REPRESENTATIVE, QUALIFIED PROFESSIONAL, AND TOWN ENGINEER AT LEAST ONE WEEK PRIOR TO COMMENCEMENT OF CONSTRUCTION.
7. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION THE CONTRACTOR SHALL INSTALL ALL EROSION AND SEDIMENT CONTROL MEASURES AS DEPICTED ON THE PLANS. ONCE INSTALLED, THE CONTRACTOR/OWNER SHALL HAVE A QUALIFIED PROFESSIONAL, AS DEFINED WITHIN THE NYSDEC SPDES GENERAL PERMIT GP-0-08-001, CONDUCT A PRECONSTRUCTION SITE ASSESSMENT PRIOR TO THE COMMENCEMENT OF CONSTRUCTION TO CERTIFY THAT ALL EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN ADEQUATELY INSTALLED AND IMPLEMENTED.
8. THE CONTRACTOR/OWNER SHALL HAVE A QUALIFIED PROFESSIONAL CONDUCT SITE INSPECTIONS DURING CONSTRUCTION. EVERY 7 CALENDAR DAYS. REFER TO THE NYSDEC SPDES GENERAL PERMIT GP-0-08-001 AND THE SWPPP FOR WHAT EACH INSPECTION SHALL CONSIST OF.
9. THE OWNER/OPERATOR SHALL MAINTAIN A RECORD OF ALL EROSION AND SEDIMENT CONTROL INSPECTION REPORTS AT THE SITE IN A SITE LOG BOOK. THE SITE LOG BOOK SHALL BE MAINTAINED ON-SITE AND BE MADE AVAILABLE TO THE PERMITTING AUTHORITY. THE OWNER/CONTRACTOR SHALL POST AT THE SITE, IN A PUBLICLY ASSESSABLE LOCATION, A SUMMARY OF THE SITE INSPECTION ACTIVITIES ON A MONTHLY BASIS.
10. THE OWNER/OPERATOR SHALL FILE A NOTICE OF TERMINATION (NOT) WITH THE NYSDEC ONCE CONSTRUCTION ACTIVITIES HAVE CEASED, THE SITE HAS BEEN STABILIZED, AND A FINAL ASSESSMENT HAS BEEN PERFORMED BY A QUALIFIED PROFESSIONAL.

TOPSOIL SPECIFICATIONS:

1. EXISTING EXCESS TOPSOIL TO BE REMOVED AND STORED IN TOPSOIL STOCKPILES SUFFICIENTLY REMOVED FROM OTHER EXCAVATION OR DISTURBANCE TO AVOID MIXING. SILT FENCE SHALL BE INSTALLED AROUND TOPSOIL STOCKPILE AREAS.

A. SITE PREPARATION:
1. COMPLETE ROUGH GRADING AND FINAL GRADE, ALLOWING FOR DEPTH OF TOPSOIL TO BE ADDED.
2. SCARIFY ALL COMPACT, SLOWLY PERMEABLE, MEDIUM AND FINE TEXTURED SUBSOIL AREAS. SCARIFY AT APPROXIMATELY RIGHT ANGLES TO THE SLOPE DIRECTION IN SOIL AREAS THAT ARE STEEPER THAN 5%
3. REMOVE REFUSE, WOODY PLANT PARTS, STONES OVER 3 INCHES IN DIAMETER, AND OTHER LITTER.

B. TOPSOIL MATERIALS:
1. NEW TOPSOIL SHALL BE BETTER THAN OR EQUAL TO THE QUALITY OF THE EXISTING ADJACENT TOPSOIL. IT SHALL MEET THE FOLLOWING CRITERIA:

A. ORIGINAL LOAM TOPSOIL, WELL DRAINED HOMOGENEOUS TEXTURE AND OF UNIFORM GRADE, WITHOUT THE ADMIXTURE OF SUBSOIL MATERIAL AND FREE OF DENSE MATERIAL, HARDPAN, CLAY, STONES, SOD OR OTHER OBJECTIONABLE MATERIAL.

B. CONTAINING NOT LESS THAN 5% NOR MORE THAN 20% ORGANIC MATTER IN THAT PORTION OF A SAMPLING PASSING A 1/4" SIEVE WHEN DETERMINED BY THE WET COMBUSTION METHOD ON A SAMPLE DRIED AT 105°C.

C. CONTAINING A pH VALUE WITHIN THE RANGE OF 6.5 TO 7.5 ON THAT PORTION OF THE SAMPLE WHICH PASSES A 1/4" SIEVE.

D. CONTAINING THE FOLLOWING WASHED GRADATIONS:

SIEVE DESIGNATION	% PASSING
1"	100
1/4"	97-100
NO 200	20-60

C. APPLICATION AND GRADING:
1. TOPSOIL SHALL BE DISTRIBUTED TO A UNIFORM DEPTH OF 4" OVER THE AREA. IF SHALL NOT BE PLACED WHEN IT IS PARTLY FROZEN, MUDDY, OR ON FROZEN SLOPES OR OVER ICE, SNOW, OR STANDING WATER.
2. TOPSOIL PLACED AND GRADED ON SLOPES STEEPER THAN 5% SHALL BE PROMPTLY FERTILIZED, SEEDED, MULCHED AND STABILIZED BY "TRACKING" WITH SUITABLE EQUIPMENT.

VEGETATIVE COVER SPECIFICATIONS:

A. TEMPORARY VEGETATIVE COVER (DURING CONSTRUCTION):
1. SITE PREPARATION
   (SAME AS PERMANENT VEGETATIVE COVER)
2. SEED MIX: (APPLY AT RATE OF 3 TO 4 LBS PER 1000 SF)

AMOUNT BY: WEIGHT	MINIMUM % SPECIES OR VARIETY	PURITY	GERMINATION
90%	ANNUAL RYEGRASS	98%	90%
10%	ORGANIC MATTER	98%	90%
100%			

3. SEEDING
   (SAME AS PERMANENT VEGETATIVE COVER)
4. MULCH MATERIALS

MATERIAL	APPLICATION RATE	DEPTH
WOOD CHIPS OR SHAVINGS	10-20 TONS/ACRE (MIN)	2-7"
HAY OR STRAW	2 TONS/ACRE (MIN)	90% SURFACE COVERAGE

ANCHOR MULCH MATERIALS BY PULLING A MULCH ANCHORING TOOL (BLUNT STRAIGHT DISCS), i.e. CRIMPER TOOL, OVER MULCH AS NEAR TO THE CONTOUR AS POSSIBLE. MULCH MATERIAL SHOULD BE "TUCKED" INTO SOIL SURFACE ABOUT 3".

MULCH MAY ALSO BE ANCHORED WITH APPLICATION OF WOOD CELLULOSE FIBER BY HYDROSEEDER. ANCHOR IMMEDIATELY AFTER MULCHING USING