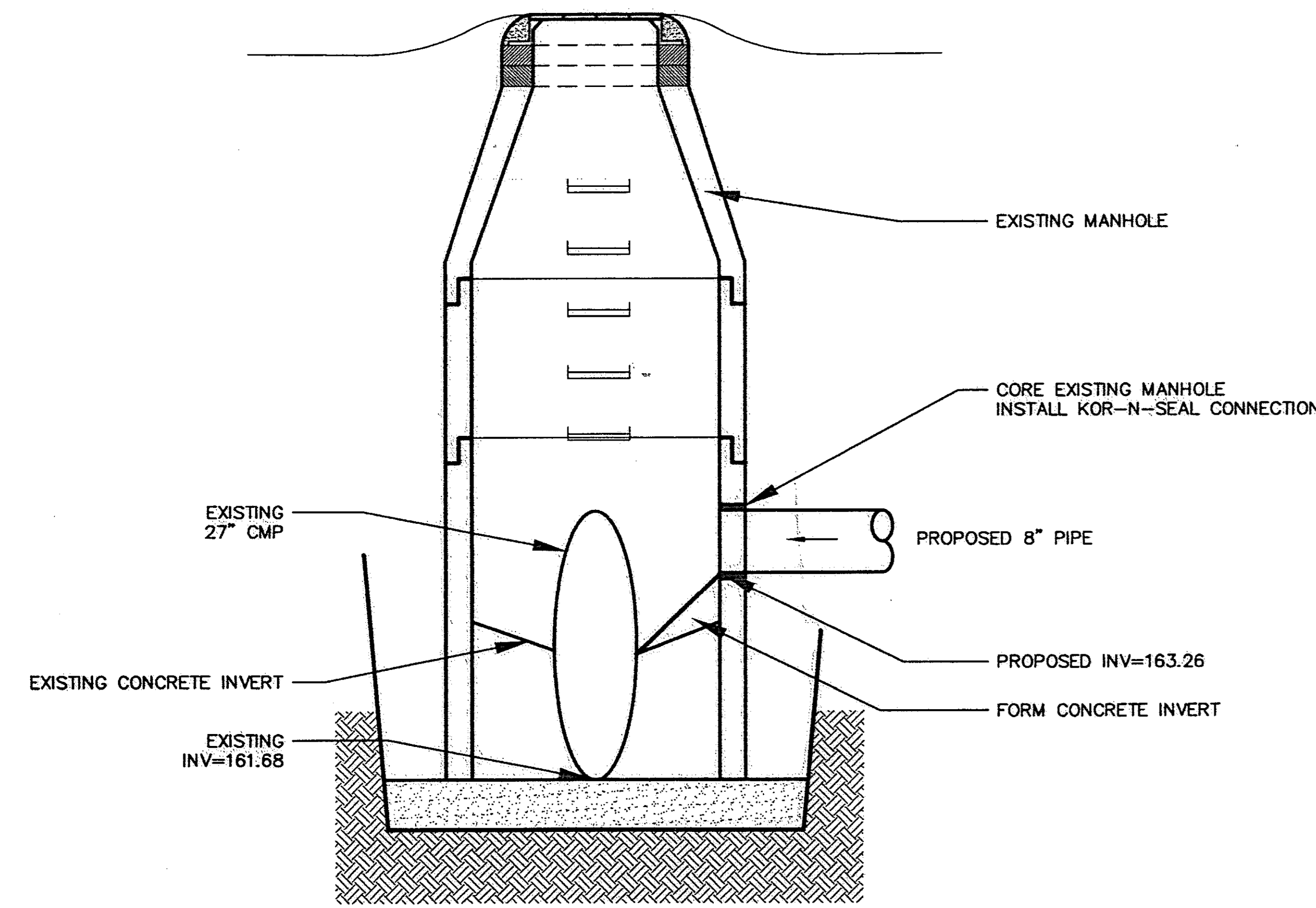


GENERAL NOTES

- ALL WORK SHALL BE DONE IN STRICT COMPLIANCE WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES, STANDARDS, ORDINANCES, RULES AND REGULATIONS.
- EXISTING WATER MAIN & SANITARY SEWER SHOWN HEREIN WERE OBTAINED FROM EXISTING AVAILABLE RECORD DRAWINGS. THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE. THEIR ACTUAL LOCATION SHALL BE VERIFIED BY THE CONTRACTOR BY CONTACTING THE UNDERGROUND FACILITIES PROTECTIVE ORGANIZATION AND MUNICIPAL AGENCIES HAVING JURISDICTION SEVENTY-TWO (72) HOURS PRIOR TO ANY EXCAVATING AND/OR CONSTRUCTION. (1-800-962-7962).
- CONSTRUCTION OF ALL PROPOSED UTILITIES MUST BEGIN AT ITS POINT OF CONNECTION TO THE EXISTING UTILITY OR AT THE LOWEST POINT IN THE SYSTEM. RIMS, GRATES, INVERTS, CLEARANCES AND LOCATION AT CROSSINGS MUST BE VERIFIED PRIOR TO THE BEGINNING OF CONSTRUCTION. THE ENGINEER MUST BE NOTIFIED AT LEAST TWENTY-FOUR (24) HOURS IN ADVANCE OF ANY INSTALLATION TO BE ABLE TO PROVIDE OBSERVATION AS REQUIRED. THE CONTRACTOR MUST KEEP A RECORD OF ALL UNDERGROUND UTILITIES INSTALLED AND ENCOUNTERED SO THE ENGINEER CAN USE THE RECORDS FOR THE PREPARATION OF RECORD DRAWINGS REQUIRED BY THE LOCAL MUNICIPALITY.
- WHEN CROSSING EXISTING UTILITIES WITH PROPOSED UTILITIES, CONTRACTOR SHALL COORDINATE SUCH CROSSINGS WITH THE RESPECTIVE MUNICIPAL AGENCIES AND UTILITY COMPANIES HAVING JURISDICTION OVER THE EXISTING UTILITIES.
- ALL PROPOSED UTILITIES AND APPURTENANCES SHALL BE CONSTRUCTED IN COMPLIANCE WITH THE TOWN OF BETHELEHEM & ALBANY COUNTY CODES AND REGULATIONS GOVERNING THE INSTALLATION OF SUCH UTILITIES.
- THE ENGINEER RESERVES THE RIGHT TO EXAMINE ALL WORK DONE ON THIS PROJECT AT ANY TIME TO DETERMINE THE CONFORMANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS OF THIS PROJECT, AS INTENDED AND INTERPRETED BY THE ENGINEER.
- MISCELLANEOUS WORK NOT SPECIFICALLY SHOWN ON THE CONTRACT DRAWINGS SUCH AS PATCHING, BLOCKING, TRIMMING, ETC., SHALL BE PERFORMED AS REQUIRED TO MAKE THE WORK COMPLETE, AND FUNCTIONAL.
- ALL DISTURBED AREA TO RECEIVE TOPSOIL AND SEED, EXCEPT AS OTHERWISE NOTED.
- THE CONTRACTOR SHALL:
 - VERIFY ALL CONDITIONS IN THE FIELD PRIOR TO COMMENCEMENT OF WORK AND NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES.
 - EXAMINE THE SITE AND INCLUDE IN HIS WORK THE EFFECT OF ALL EXISTING CONDITIONS OF THE WORK.
 - PROVIDE AND INSTALL ALL MATERIALS AND PERFORM ALL WORK IN ACCORDANCE WITH RECOGNIZED GOOD STANDARD PRACTICE. HOLD THE OWNER HARMLESS AGAINST ANY AND ALL CLAIMS ARISING FROM WORK DONE BY THE CONTRACTOR ON THE SITE.
- WATER SYSTEM IMPROVEMENTS, INCLUDING WATER MAINS AND HYDRANTS SHALL BE INSTALLED, TESTED AND ACCEPTED IN ACCORDANCE WITH THE TOWN OF BETHELEHEM AND ACOOH RULES AND REGULATIONS.
- SANITARY SEWERS SHALL BE INSTALLED AND ACCEPTED IN ACCORDANCE WITH THE TOWN OF BETHELEHEM SEWER DISTRICTS' AND ACOOH RULES AND REGULATIONS.
- ALL BACKFILL USED IN TRENCHES WITHIN ROADWAY AREAS SHALL BE PLACED IN MAXIMUM SIX (6) INCH LIFTS AND COMPACTED BY MEANS OF A MECHANICAL COMPACTOR BETWEEN LIFTS.
- WHEN BACKFILLING AROUND PROPOSED OR EXISTING STRUCTURES, MATERIAL SHALL BE PLACED IN MAXIMUM SIX (6) INCH LIFTS AND COMPACTED BY MEANS OF A MECHANICAL COMPACTOR BETWEEN LIFTS.
- CONTRACTOR SHALL ADJUST RIM/TOP OF FRAME ELEVATIONS TO PROPOSED FINISHED GRADES FOR ALL UTILITIES LOCATED WITHIN LIMITS OF PROPOSED WORK.
- NO SUMP PUMPS, ROOF DRAINS, CELLAR DRAINS OR FOOTING DRAINS SHALL BE CONNECTED TO ANY SANITARY SEWER.
- SEWER MAINS IN RELATION TO WATER MAINS: WHERE POSSIBLE SEWERS SHALL BE LAID AT LEAST 10.0 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATER MAIN. VERTICAL SEPARATION SHALL BE MAINTAINED TO PROVIDE A MINIMUM OF 18 INCHES BETWEEN THE SEWER AND WATER MAIN CROSSINGS. WHEN IMPOSSIBLE TO OBTAIN THE SEPARATION, SEE DETAIL ON THIS SHEET.
- HYDRANTS THAT ARE PROPOSED AT THE END OF DEAD END RUNS REQUIRE RESTRAINT ON THE LAST 3 FULL LENGTH SECTIONS OF THE WATER MAIN.
- CONTRACTOR MUST PROTECT ALL SURFACE WATERS FROM SILTATION DURING CONSTRUCTION WITH APPROPRIATE MEASURES INCLUDING, BUT NOT LIMITED TO PLACING HAY BALES AND SILTATION FENCING AROUND WORK AS A MINIMUM. HAY BALES AND SILTATION FENCING SHALL BE PLACED AS SHOWN ON THE PLAN IN ALL DRAINAGE SWALES AT INTERVALS REQUIRED TO CONTROL SILTATION. UNTIL RIP-RAP IS INSTALLED, AFTER RIP-RAP IS INSTALLED, PROTECT RIP-RAP FROM SILTATION. CONTRACTOR SHALL REMOVE ALL PRIOR TO PROJECT COMPLETION.
- ALL WATER MAIN PIPE TO BE USED MUST MEET ALL APPROPRIATE AWWA STANDARDS.
- PRESSURE AND LEAKAGE TESTS MUST BE PERFORMED ON THE WATER SYSTEM, AND RESULTS MUST CONFORM TO ALL APPROPRIATE AWWA STANDARDS.
- ALL PRECAST CONCRETE STRUCTURES SHALL BE TRAFFIC RATED.
- PRESSURE AND LEAKAGE TESTS MUST BE PERFORMED ON THE SANITARY SEWER SYSTEM. THE RESULTS ARE TO CONFORM TO THE TOWN OF BETHELEHEM SEWER DISTRICT AND ALBANY COUNTY DEPARTMENT OF HEALTH STANDARDS.
- CONTRACTOR IS ADVISED THAT CONSTRUCTION PROCEDURES AND MATERIALS TO BE USED FOR ALL WORK WILL HAVE TO COMPLY WITH THE WRITTEN SPECIFICATIONS AND STANDARDS OF THE VARIOUS TOWN OF BETHELEHEM DEPARTMENTS INCLUDING PUBLIC WORKS, HIGHWAY, SEWER AND WATER. CONTRACTOR IS RESPONSIBLE FOR SECURING AND COMPLYING WITH THOSE RESPECTIVE DEPARTMENTS WRITTEN SPECIFICATIONS, DRAWINGS, AND STANDARDS.
- CONTROLLED FILL IS DEFINED IN THE GEOTECHNICAL REPORT ENTITLED "WALDENMAIER PLANNED RESIDENCE COMMUNITY", BETHELEHEM, NEW YORK, FILE NO. 8002", PREPARED BY HERMON C. HOFFMAN, P.E., DATED NOVEMBER 20, 2002. CONTROLLED FILL SHALL BE RELATIVELY CLEAN, GRANULAR BORROW FILL AND CAN BE SPREAD IN LIFTS NOT EXCEEDING 12 INCHES IN LOOSE THICKNESS. THESE MATERIALS SHALL BE COMPACTED TO A MINIMUM OF 95% OF THE MAXIMUM ASTM SPECIFICATION D 1557-91 DENSITY, MODIFIED PROCTOR. ALL CONTROLLED FILL SHALL BE FREE OF ORGANIC AND/OR FROZEN MATERIAL. FREE-DRAINING CONTROLLED FILL SHOULD HAVE LESS THAN 10% FINES PASSING THE #200 SIEVE.

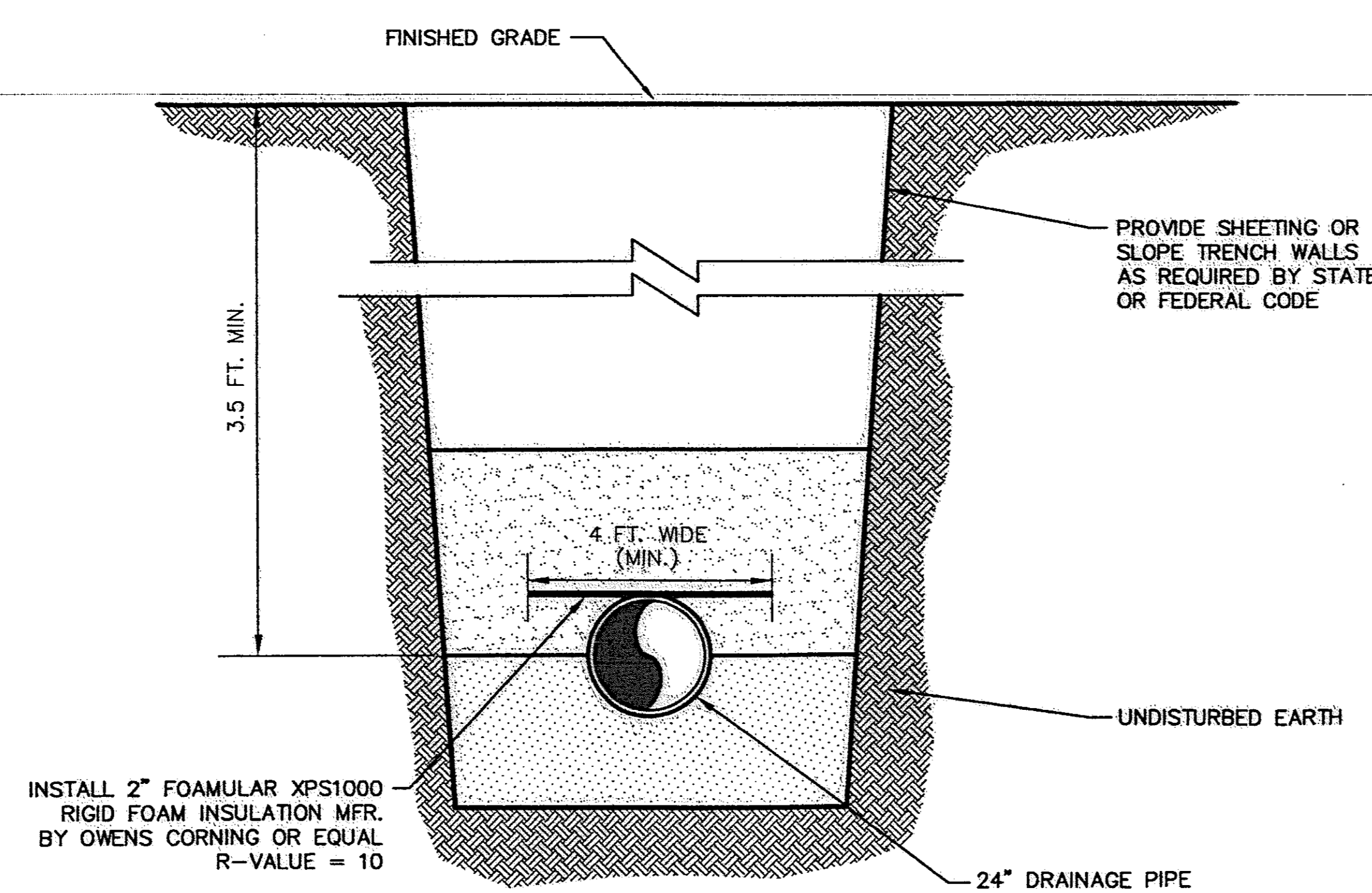


EXISTING SANITARY MANHOLE PROPOSED CONNECTION DETAIL

TYPICAL SECTION

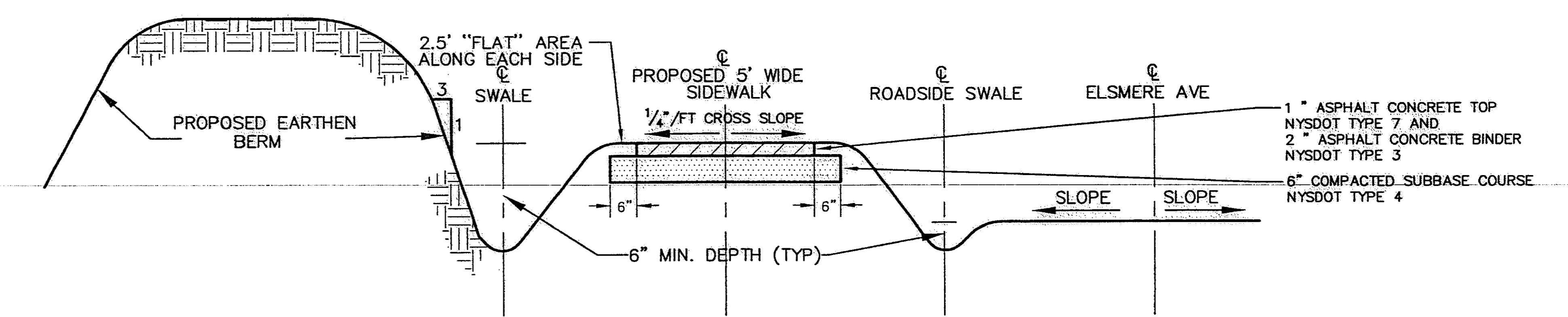
CONTRACTOR GENERAL WORK PLAN:

- NOTIFY THE TOWN OF BETHELEHEM DEPARTMENT OF PUBLIC WORKS.
- MAKE PROVISIONS TO MAINTAIN EXISTING FLOWS.
- EXCAVATE AND LOCATE SANITARY SEWER MAIN.
- CONFIRM LAYOUT OF PROPOSED WORK.
- CORE EXISTING CONCRETE WALL.
- CONSTRUCT PROPOSED SANITARY SEWER MAIN.
- REVIEW THAT COMPLETED INSTALLATION IS ACCEPTABLE TO THE DEPARTMENT OF PUBLIC WORKS AND OBTAIN APPROVAL TO BACKFILL.



PIPE INSULATION DETAIL

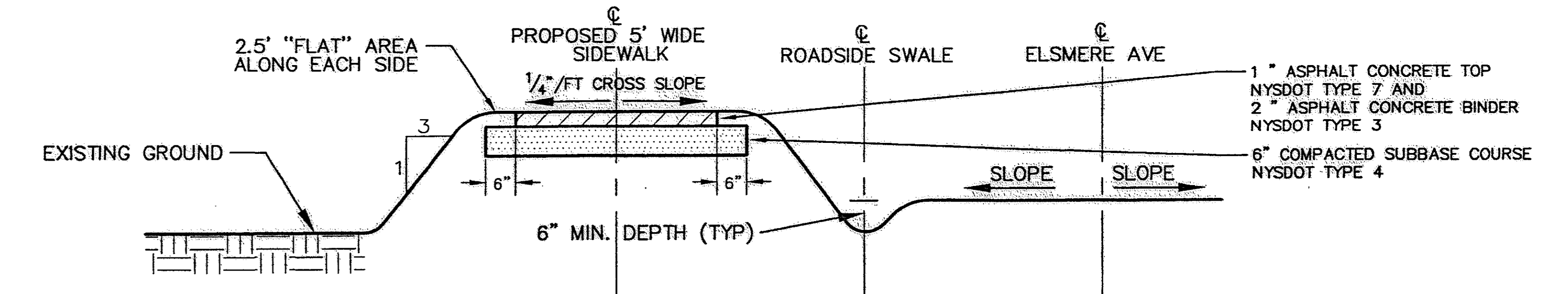
TYPICAL SECTION



PROPOSED SIDEWALK AT ELSMERE AVENUE DETAIL

(AT LOCATIONS WITH BERMS)

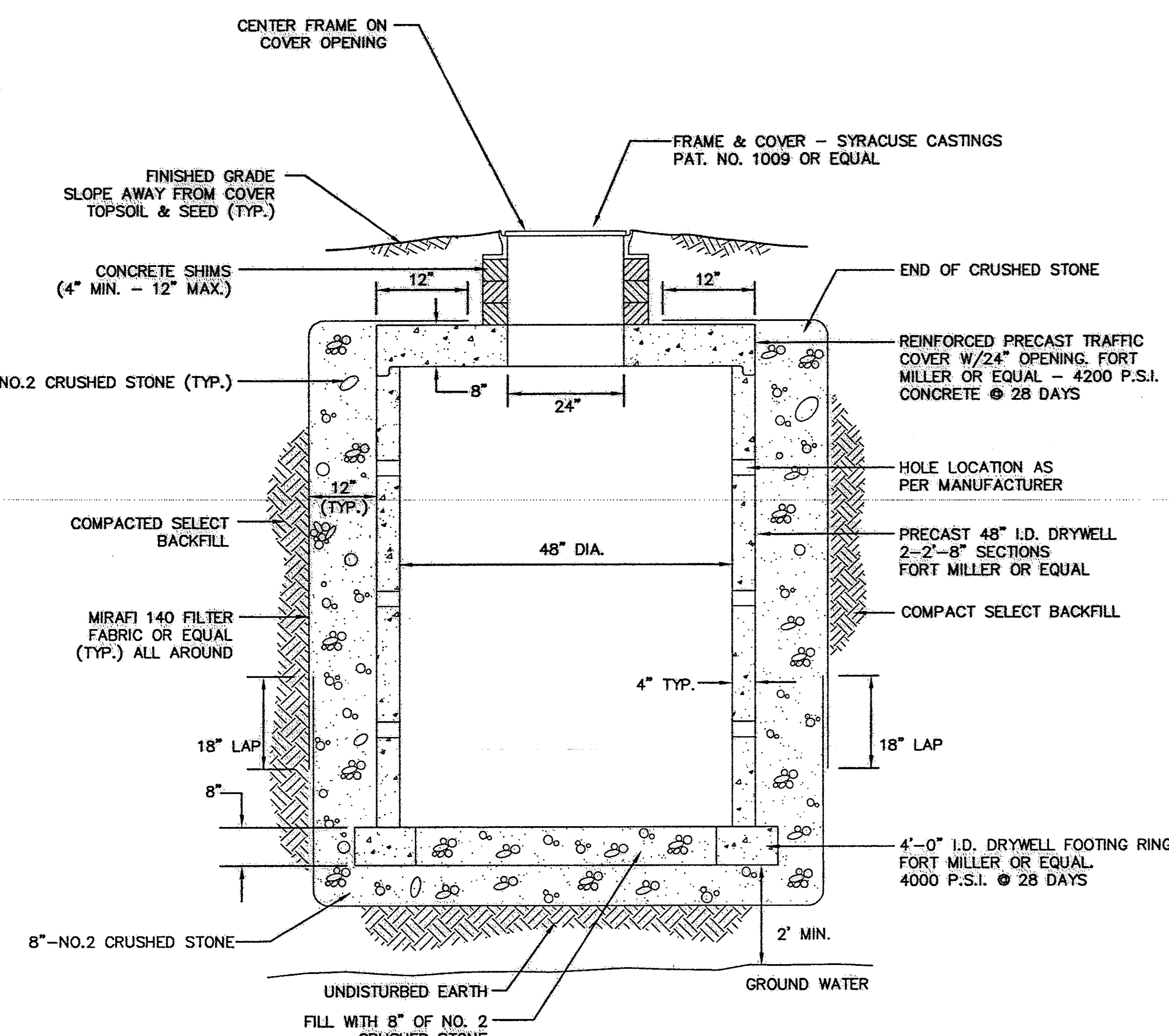
TYPICAL SECTION



PROPOSED SIDEWALK AT ELSMERE AVENUE DETAIL

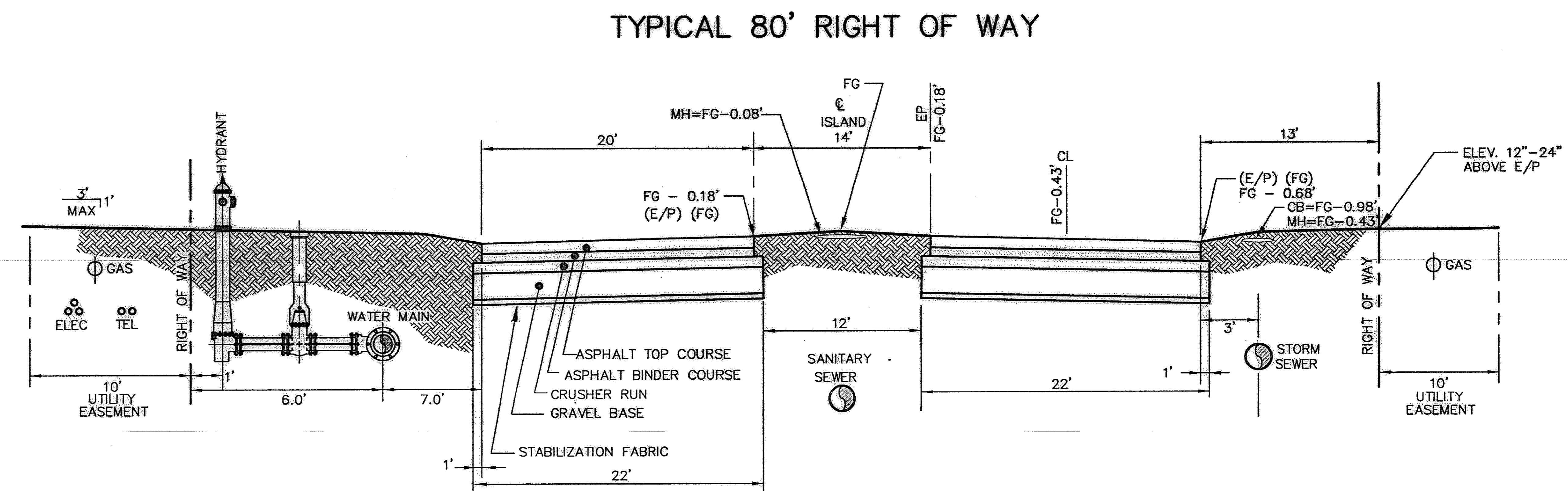
(AT LOCATIONS WITHOUT BERMS)

TYPICAL SECTION



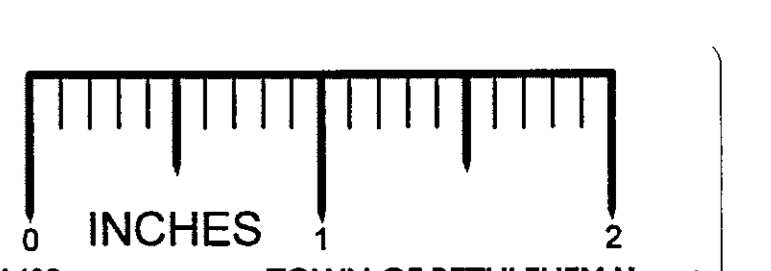
SEEPAGE PIT DETAIL

TYPICAL SECTION



BOULEVARD TYPICAL SECTION

NOTES:
1. ROAD PROFILES BASED ON EXISTING AND PROPOSED GRADES AT CENTER OF ISLAND



<p>L. SIPHERLY & ASSOCIATES ENGINEERS • SURVEYORS • LAND PLANNERS 696 TROY-SCHNEEDY ROAD, LATHAM, N.Y. 12110 PHONE: (518) 782-1800 FAX: (518) 782-1282</p>		<p>DESIGNED BY: J.P.P./D.E.O. CHECKED BY: N.C. APPROVED BY: L.L.S. SCALE: AS NOTED DATE: MAY 10, 2002 ISSUED:</p>	<p>WALDENMAIER PLANNED RESIDENTIAL DEVELOPMENT ELSMERE AVENUE & FEURA BUSH ROAD COUNTY OF ALBANY TOWN OF BETHELEHEM STATE OF NEW YORK</p>	<p>SHEET NUMBER 10 10 OF 20 REV. NO. DWS. NO. 06-06-03</p>
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