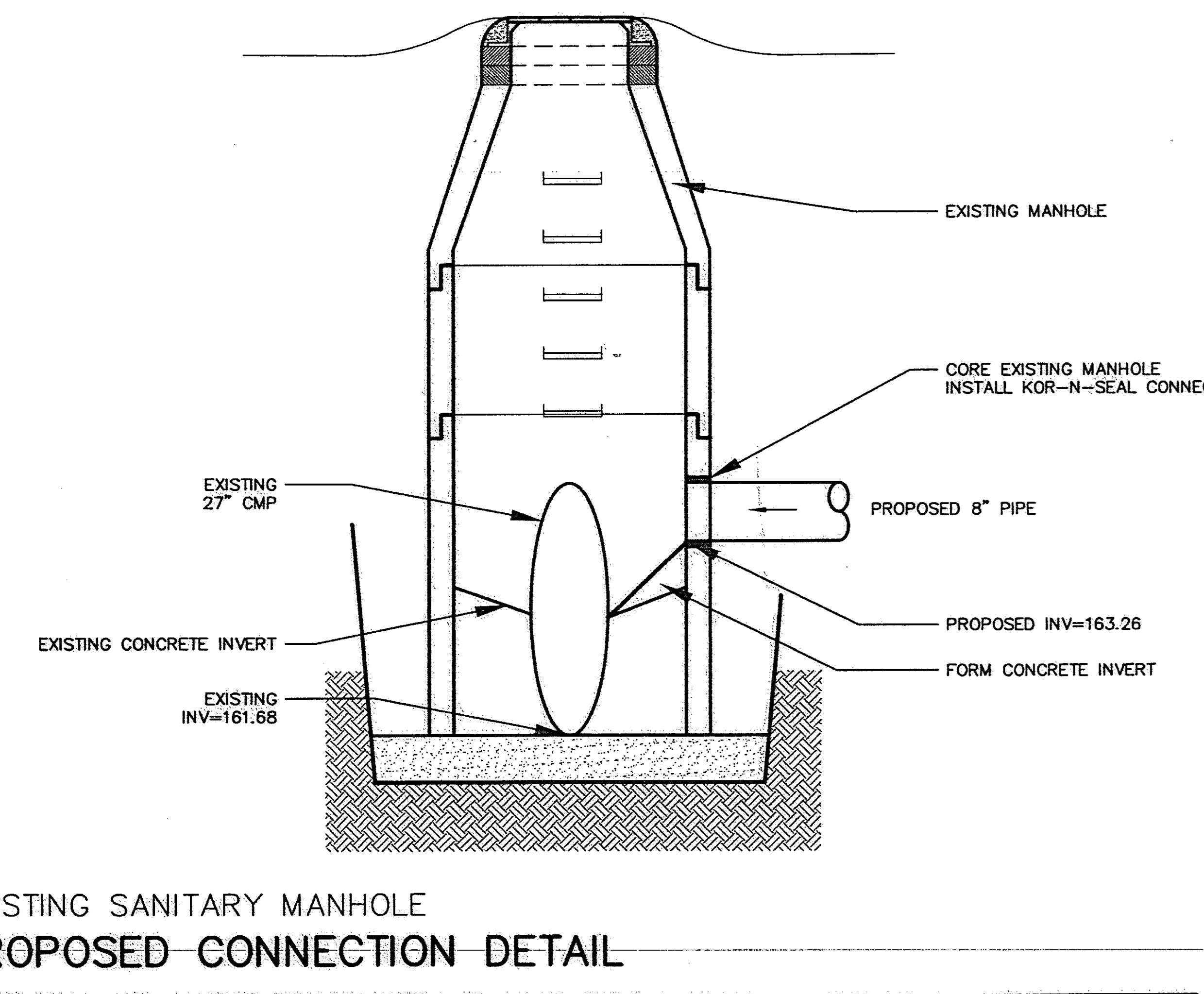


GENERAL NOTES

- 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 DOCUMENTATION OF EXISTING UTILITIES FACILITIES BY THE CONTRACTOR 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. RISKS, GATES, DERTS, CLEARANCES AND LOCATION AT CROSSINGS MUST BE VERIFIED PRIOR TO COMMENCEMENT 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 EXISTING UNDERGROUND UTILITIES INSTALLED AND ENCOUNTERED SO THE ENGINEER CAN USE THESE RECORDS FOR 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 BETHLEHEM & ALBANY COUNTY CODES AND REGULATIONS GOVERNING THE INSTALLATION OF SUCH UTILITIES.
- THE ENGINEER RESERVES THE RIGHT TO EXAMINE ALL WORK DONE ON THE PROPOSED UTILITIES AND TO DETERMINE 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 REQUIRED TO ENSURE 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 BETHLEHEM AND ACOH RULES AND REGULATIONS.
- SANITARY SEWERS SHALL BE INSTALLED AND ACCEPTED IN ACCORDANCE WITH THE TOWN OF BETHLEHEM SEWER DISTRICTS' AND ACOH RULES AND REGULATIONS.
- ALL BACKFILL USED IN TRENCHES WITHIN ROADWAY AREAS SHALL BE PLACED IN MAXIMUM SIX (6) INCH LIFTS AND COMPAKTED 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 COMPAKTED BY MEANS OF A MECHANICAL COMPACTOR BETWEEN LIFTS.
- CONTRACTOR SHALL ADJUST RIM/TOP OF FRAME ELEVATIONS TO PROVIDE FINISHED GRADES FOR ALL UTILITIES LOCATED WITHIN LIMITS OF PROPOSED WORK.
- NO SUMP PUMP, 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.

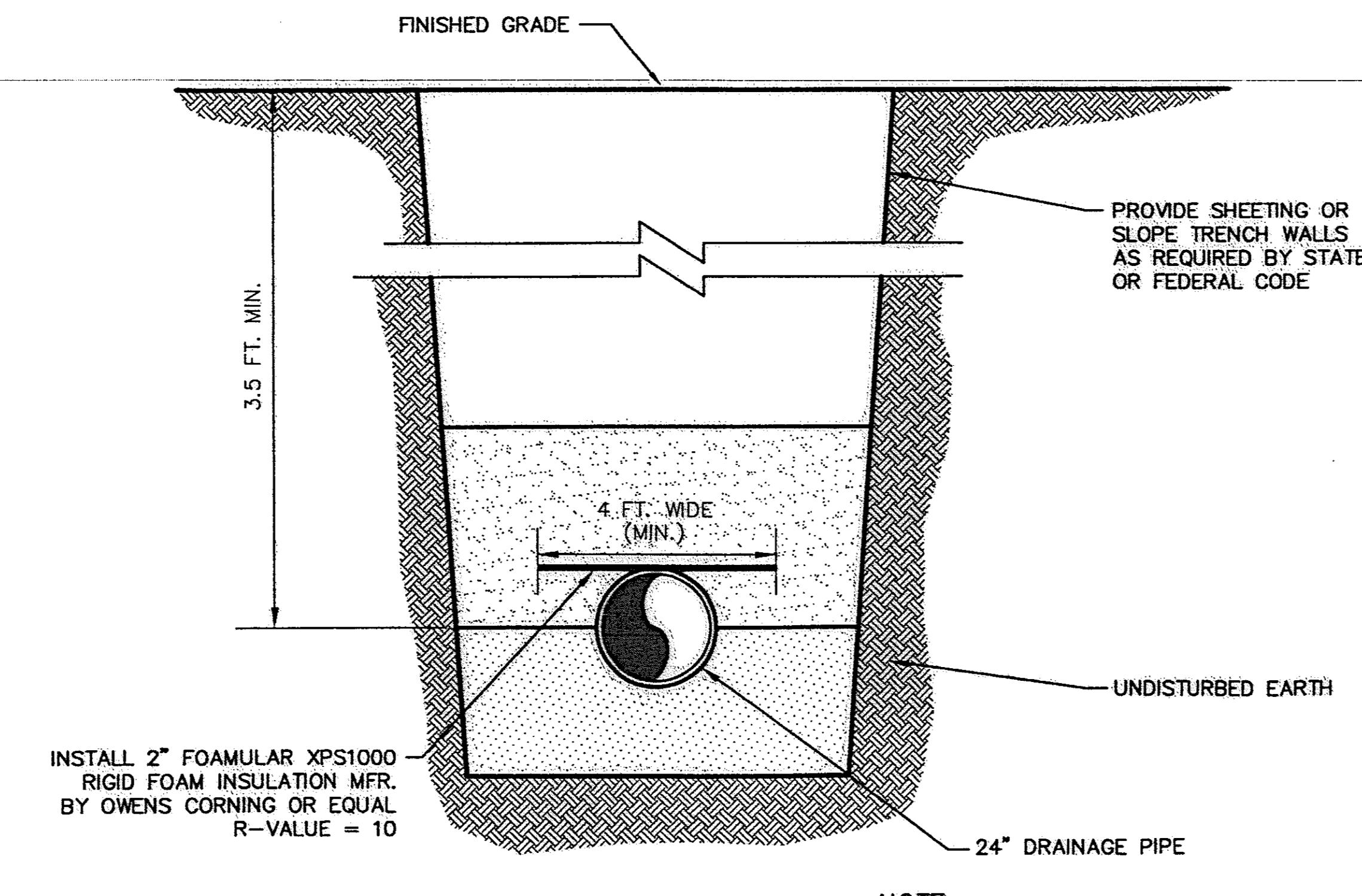


PROPOSED CONNECTION DETAIL

TYPICAL SECTION N.T.S.

CONTRACTOR GENERAL WORK PLAN:

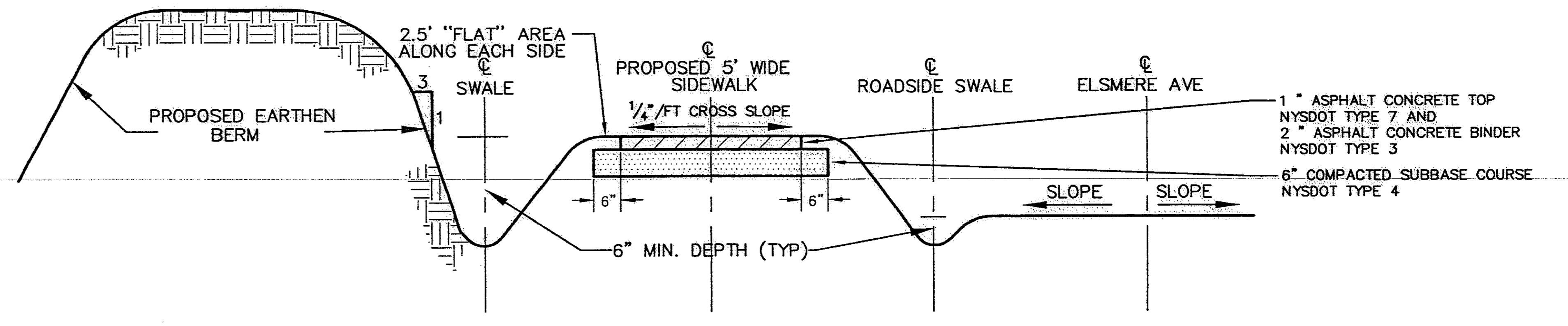
- NOTIFY THE TOWN OF BETHLEHEM DEPARTMENT OF PUBLIC WORKS.
- MAKE PROVISIONS TO MAINTAIN EXISTING FLOWS.
- EXCAVATE AND LOCATE SANITARY SEWER MAIN.
- CONFIRM LAYOUT OF PROPOSED WORK.
- CORE EXISTING CONCRETE WALL.
- CONSTRUCT PROPOSED SANITARY SEWER MAIN.
- REVIEW THAT COMPLETED INSTALLATION IS ACCEPTABLE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



PIPE INSULATION DETAIL

TYPICAL SECTION N.T.S.

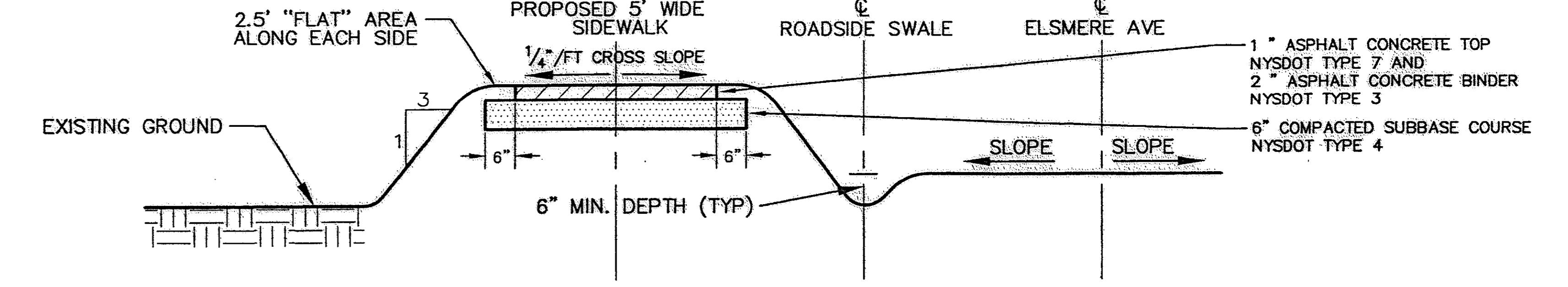
NOTE: 1. PIPE INSULATION SHALL BE INSTALLED AT LOCATIONS WHERE DEPTH OF COVER IS 3.5 FT. OR LESS MEASURED FROM THE FINISH GRADE TO THE SPRING LINE OF THE PIPE.



PROPOSED SIDEWALK AT ELSMERE AVENUE DETAIL

(AT LOCATIONS WITH BERMS)

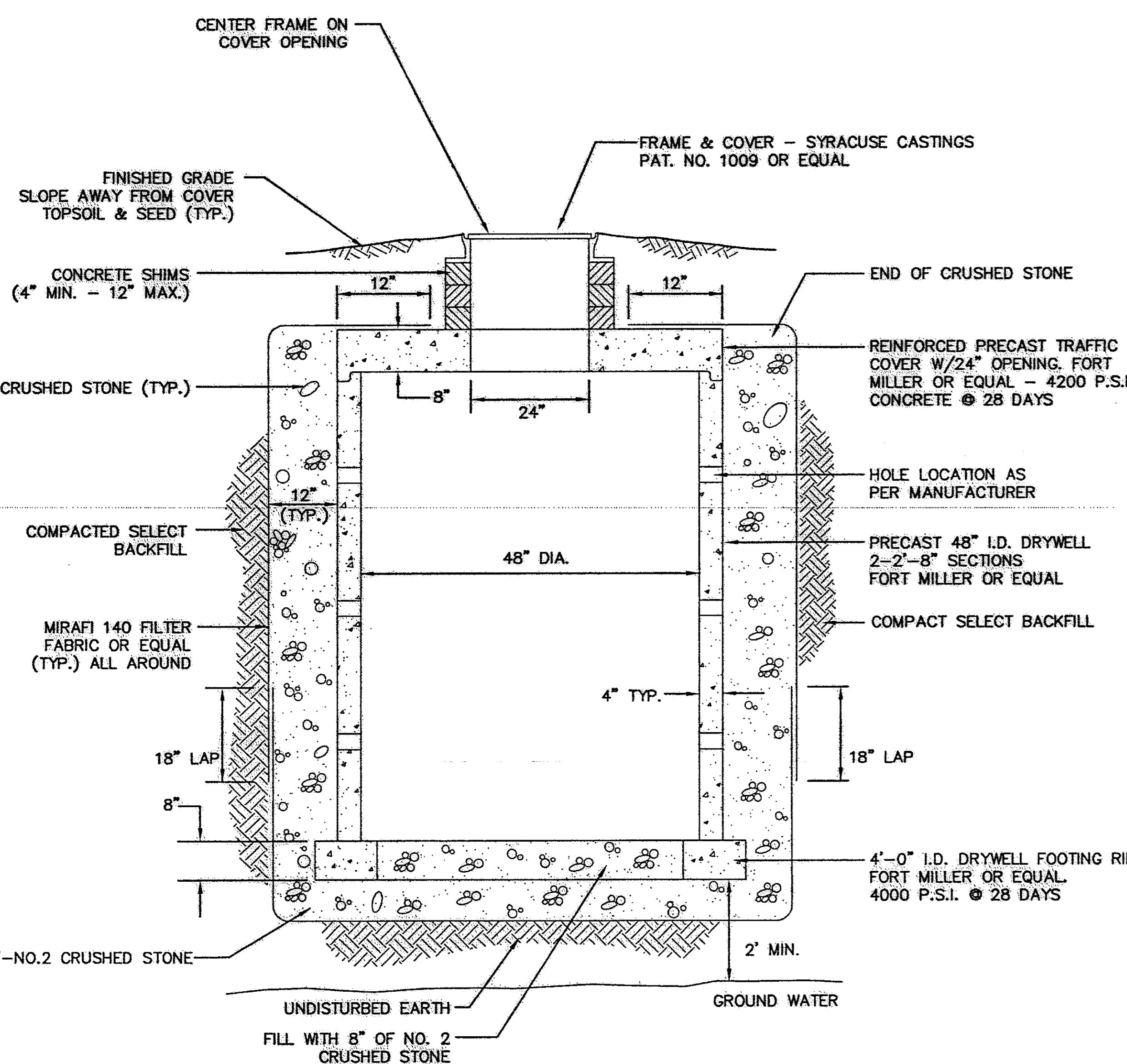
TYPICAL SECTION



PROPOSED SIDEWALK AT ELSMERE AVENUE DETAIL

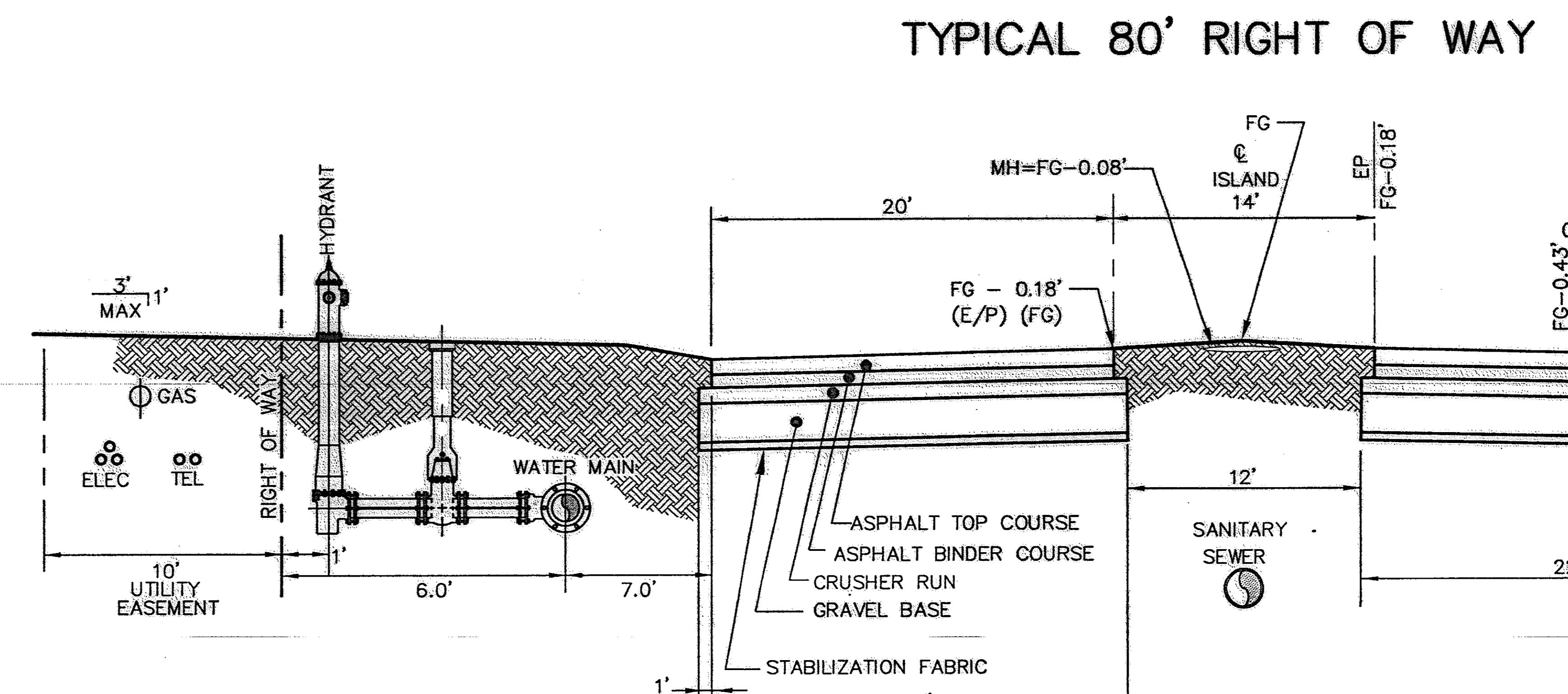
(AT LOCATIONS WITHOUT BERMS)

TYPICAL SECTION



SEEPAGE PIT DETAIL

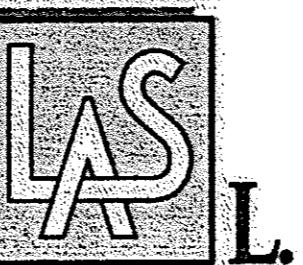
TYPICAL SECTION N.T.S.



BOULEVARD TYPICAL SECTION

N.T.S.

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

D 04/25/03 REVISED PER TOWN COMMENTS & A.C.D.O.H. COMMENTS	B.M.D.	 L. SIPPERLY & ASSOCIATES ENGINEERS • SURVEYORS • LAND PLANNERS 688 TROY-SCHEECTADY ROAD, LATHAM, NY. 12110 PHONE: (518) 782-1800 FAX: (518) 782-1232 06-06-03	
C 02/07/03 REVISED PER TOWN COMMENTS	M.R.T.		
B 11/11/02 REVISED PER TOWN COMMENTS	D.E.O.		
A 9/24/02 ISSUED FOR REVIEW	I.B.O.		
Rev no 1 Date	Description		
REVISIONS			

DESIGNED BY:
 DRAWN BY: J.P.P./D.E.O.
 CHECKED BY: N.C.
 APPROVED BY: L.T.S.
 SCALE: AS NOTED
 DATE: MAY 10, 2002
 ISSUED: 06-06-03

WALDENMAIER PLANNED
RESIDENTIAL DEVELOPMENT
ELSMERE AVENUE & FEURA BUSH ROAD
TOWN OF BETHLEHEM
STATE OF NEW YORK
10
10 OF 20
REV. NO. D
DWS. NO. G-02092B

MISCELLANEOUS DETAILS (2)