

HYDRAULIC COMPUTATIONS

ADDRESS 213 BAYSIDE AVENUE
BREEZY POINT, NY 11697

LOT 16340
BLOCK 50
ZONING R4

STORM WATER DISPOSAL NOTE:

BASED ON THE EXISTING SITE CONSTRAINTS, INCLUDING SHALLOW LOT, HIGH WATER TABLE, AND SOIL CONDITIONS, I HAVE DETERMINED THAT A PRACTICAL DIFFICULTY PROHIBITS COMPLIANCE WITH THE NYC PLUMBING CODE REQUIREMENTS FOR STORM WATER DISPOSAL THE NEW DESIGN EITHER REDUCES IMPERVIOUS SURFACES, OR WILL NOT INCREASE IMPERVIOUS SURFACES BY MORE THAN 200 SF FROM THE EXISTING CONDITION OWING TO THE ELEVATION OF BUILDING, REMOVAL OF EXISTING IMPERVIOUS SURFACES, INSTALLATION OF GRAVEL FILL UNDERNEATH THE BUILDING. FURTHER, BASE ON THE COMMUNITY TEST BORINGS AND GEOTECHNICAL DATA RECEIVED, THE ON-SITE SOILS HAVE ADEQUATE STORAGE CAPACITY TO HOLD THE STORM WATER. THE STORM WATER DISPOSAL FROM THE PREVIOUS STRUCTURE WAS CAPTURED WITH GUTTERS, LEADERS, AND SPLASH BLOCKS AND THIS SYSTEM WILL BE CONTINUED TO DISPOSE STORM WATER TO PVIOUS SURFACES ON SITE. THE RUNOFF FROM THE ROOF AREA, AWNINGS AND CANOPIES WILL NOT BE DIRECTED TOWARDS PUBLIC RIGHT OF WAY OR ADJACENT PROPERTIES. IMPERVIOUS AREA CALCULATION:

TOTAL AREA OF LOT = 1,619 SF

EXISTING IMPERVIOUS AREA = 727 SF PER SURVEY

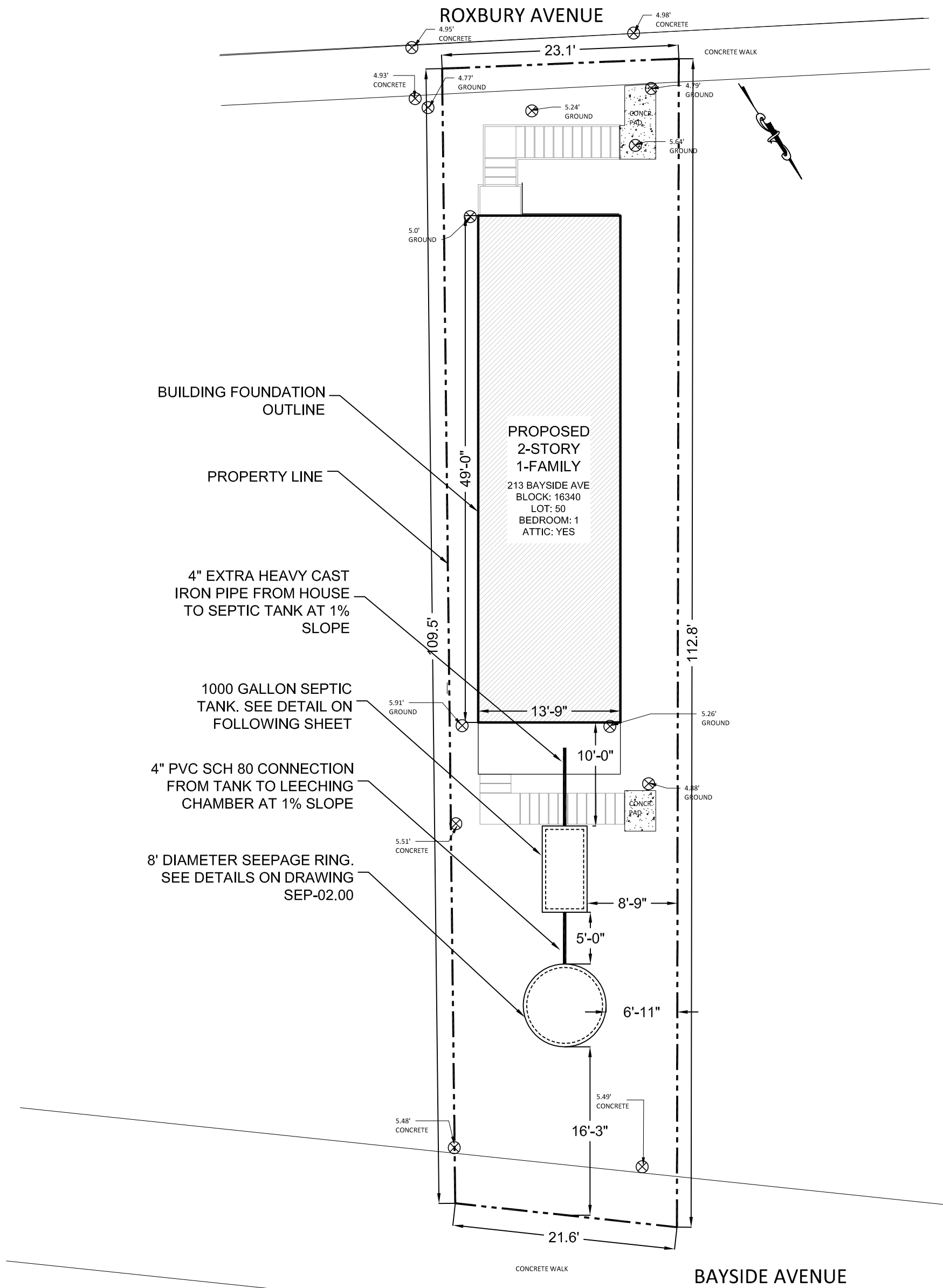
PROPOSED IMPERVIOUS AREA = 880 SF

PROPOSED - 200 < EXISTING => OK.

GENERAL NOTES:

- THESE PLANS ARE APPROVED ONLY FOR THE WORK INDICATED ON THE NYC DEPARTMENT OF BUILDINGS SEPTIC COMPLIANCE UNIT APPLICATION.
- ELEVATIONS REFER TO NORTH AMERICA VERTICAL DATUM OF 1988 (NAVD88).
- IN ACCORDANCE WITH THE NYC BUILD IT BACK PROGRAM GUIDELINES, APPLICANT/ARCHITECT'S SPECIAL INSPECTION AGENCY SHALL PERFORM CONTROLLED INSPECTION OF ALL SEPTIC SYSTEM COMPONENTS PRIOR TO BACKFILL. THE CONTRACTOR SHALL PROVIDE 72 HOURS MINIMUM NOTICE TO THE ARCHITECT TO ALLOW TIME FOR INSPECTION AND SHALL NOT BACKFILL PRIOR TO INSPECTION. CONTRACTOR SHALL BACKFILL ONCE INSTRUCTED BY APPLICANT/ARCHITECT.
- INSTALLATION SHALL FOLLOW REQUIREMENTS AS SET FORTH IN THE SEPTIC COMPLIANCE UNIT GUIDELINES, MEANING THE NYC DEPARTMENTS OF BUILDINGS AND ENVIRONMENTAL PROTECTION'S "PROPOSED REGULATIONS GOVERNING INDIVIDUAL PRIVATE ON-SITE SEWAGE TREATMENT SYSTEMS IN NEW YORK CITY" (SEPT. 1996) INCLUDING APPENDICES
- THIS PROJECT REQUESTS WAIVER FOR THE REQUIREMENTS AS SET FORTH IN THE SEPTIC COMPLIANCE UNIT GUIDELINES OF THE ITEMS IDENTIFIED BELOW BASED ON THE NYCD0B RULE 8001-01 INDIVIDUAL PRIVATE ON-SITE SEWAGE DISPOSAL SYSTEMS.
 - NON-COMPLIANT GEOMETRIC DESIGN
 - DEPTH OF THE WATER TABLE
- PROPOSED LOCATION OF SEPTIC SYSTEM AS SHOWN ATTEMPTS TO MAXIMIZE THE EXTENT TO WHICH NYC DOB SEPTIC COMPLIANCE UNIT REQUIRED SETBACKS, CLEARANCES, AND OFFSETS CAN BE MAINTAINED BASED ON EXISTING SITE CONSTRAINTS. ALL DIMENSIONS ARE APPROXIMATE AND BASED ON ASSUMED FIELD CONDITIONS AND ESTIMATED DIMENSIONS OF PRE-CAST PRODUCTS. CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS TO LOCATIONS AND LAYOUT IN FIELD BASED ON ACTUAL CONDITIONS ENCOUNTERED. CONTRACTOR SHALL INFORM THE ARCHITECT OF ANY SUGGESTED LAYOUT CHANGES PRIOR TO INSTALLATION AND RECORD THE ACTUAL INSTALLED LOCATION FOR AS-BUILT DOCUMENTATION.
- ALL EXISTING CONDITIONS ARE BASED ON A PROPERTY SURVEY BY OTHERS AND THE ACCURACY AND COMPLETENESS OF INFORMATION IS AS DESCRIBED IN THAT SURVEY. EXISTING CONDITIONS INFORMATION, INCLUDING EXACT LOCATIONS OF UNDERGROUND AND OVERHEAD UTILITIES, IS NOT GUARANTEED TO BE COMPLETE OR CORRECT. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD AND NOTIFY ARCHITECT OF RECORD OF ANY DISCREPANCIES.
- EXACT LOCATION AND TYPE OF EXISTING SEWAGE DISPOSAL SYSTEM WAS NOT KNOWN AT TIME OF DESIGN. CONTRACTOR TO IDENTIFY, LOCATE AND REMOVE EXISTING ON-SITE PRIVATE SEWAGE DISPOSAL SYSTEM PRIOR TO INSTALLATION OF PROPOSED SYSTEM.
- CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE ANY EXISTING FEATURES NOT IDENTIFIED FOR REMOVAL, INCLUDING EXISTING CESSPOOLS OR SEPTIC SYSTEMS SERVICING ADJACENT RESIDENCES. CONTRACTOR SHALL MODIFY WORK METHODS ACCORDINGLY AND SHALL BE RESPONSIBLE FOR ANY DAMAGE INCURRED AS A RESULT OF THE CONTRACTOR'S ACTIVITIES.
- DECOMMISSIONED SEPTIC SYSTEMS MUST BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE LAWS AND REGULATIONS. PIPES ENTERING A LEACHING FIELD MUST BE SEALED AND CLEAN FILL USED.
- THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT THE EXISTING CONDITIONS SHOWN ON THE PLAN MAY VARY DUE TO ONGOING AND ANTICIPATED CONSTRUCTION CONTRACTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH OTHER CONTRACTORS WHO HAVE ONGOING WORK IN THESE AREAS AND TO ARRANGE THE CONSTRUCTION SCHEDULE SO AS NOT TO DISRUPT OR INTERFERE WITH THE WORK OF OTHER CONTRACTORS.
- ALL BACKFILL MATERIALS SHALL BE IN ACCORDANCE WITH SCU GUIDELINES APPENDIX 2.
- HOUSE DRAIN CONNECTION FROM THE HOUSE TO THE SEPTIC TANK SHALL NOT BE LESS THAN 4" DIAMETER EXTRA HEAVY CAST IRON PIPE WITH A MINIMUM SLOPE OF 1/4 INCHES PER FOOT UNLESS OTHERWISE NOTED.
- OUTLET PIPE FROM THE SEPTIC TANK TO THE SEEPAGE RING SHALL BE 4" DIAMETER PVC SCHEDULE 80 WITH A MINIMUM SLOPE OF 1/8 INCH PER FOOT UNLESS OTHERWISE NOTED.
- WHENEVER POSSIBLE, A MINIMAL HORIZONTAL SEPARATION DISTANCE OF 10 FEET SHALL EXIST BETWEEN THE PIPING FOR AN INDIVIDUAL PRIVATE ON-SITE SEWAGE TREATMENT SYSTEM AND ANY WATER SERVICE LINE. SEE SCU GUIDELINES FOR ADDITIONAL UTILITY CLEARANCE REQUIREMENTS.
- CONTRACTOR SHALL REMOVE ANY INSTALLED SHEETING AS BACKFILLING PROGRESSES.
- BASED ON OBSERVATION WELL READINGS IN THE 2016 SUBSURFACE EXPLORATION PROGRAM, BASED ON OBSERVATION WELL READINGS IN THE 2016 SUBSURFACE EXPLORATION PROGRAM, GROUNDWATER LEVELS IN THE B1B NEIGHBORHOOD OF BREEZY POINT, QUEENS RANGED FROM 3 TO 6.5 FEET BELOW GROUND SURFACE, CORRESPONDING APPROXIMATELY TO ELEVATION +1.9 TO ELEVATION +5.4. GROUNDWATER LEVELS IN THE B1B NEIGHBORHOOD OF ROXBURY, QUEENS RANGED FROM 2 TO 4.6 FEET BELOW GROUND SURFACE, CORRESPONDING APPROXIMATELY TO ELEVATION +0.3 TO ELEVATION +3.3. NO SEPARATE PAYMENT SHALL BE MADE FOR MODIFYING WORK METHODS DUE TO GROUNDWATER. PRIOR TO ANY CONSTRUCTION WORK, THE CONTRACTOR SHALL PERFORM GROUNDWATER TEST IN ACCORDANCE WITH SECTION 23.12 OF THE "RULES RELATING TO INDIVIDUAL ON-SITE SEWAGE TREATMENT SYSTEMS". CONTACT THE ARCHITECT IF THE GROUNDWATER ELEVATION DETERMINED BY TESTING PRECLUDES CONSTRUCTION IN GENERAL CONFORMANCE WITH THESE DRAWINGS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTAL OF SHOP DRAWINGS FOR SEPTIC TANKS, SEEPAGE RINGS, AND ASSOCIATED LAYOUT AND FITTINGS PRIOR TO FURNISHING AND INSTALLATION OF MATERIALS.
- APPLICABLE NOTES ON DWG. G-100.00 ARE INCORPORATED BY REFERENCE TO BE FOLLOWED BY THE CONTRACTOR.
- CONTRACTOR SHALL RESTORE SURFACE TREATMENTS DISTURBED BY THE INSTALLATION OF PRIVATE SEWAGE SYSTEM AS SHOWN ON THE ARCHITECTURAL AND LANDSCAPE PLANS AND TO THE SATISFACTION OF THE ARCHITECT. SURFACE TREATMENTS TO BE RESTORED INCLUDE BUT ARE NOT LIMITED TO TOPSOIL AND SEED, PAVEMENT, DRIVEWAYS, WALKWAYS, CURB, AND SIDEWALK. CONTRACTOR TO SUBMIT SHOP DRAWINGS AND/OR MATERIALS LIST TO THE ENGINEER FOR APPROVAL PRIOR TO FURNISH AND INSTALLATION

NOTE: REPLACEMENT UPGRADE OF EXISTING PRIVATE DISPOSAL. SANDY DAMAGE AND AS PER A-4335 RUNG FEE WAIVED, AND OSA RUNG WAIVED.



PERMIT APPLICATION NOTES:

- PROPOSED NEW BUILDING IS CONSIDERED WITHIN THE GUIDELINES ESTABLISHED IN THE 1992 GENERAL WAIVER REQUEST 10 NYCRR PART 75.
- THE PROPOSED BUILDING IS PRESENTLY AND WILL REMAIN A ONE FAMILY DWELLING WITH 1 BEDROOM. THE VOLUME OF WASTE WATER GENERATED BY THE HOUSEHOLD WILL NOT CHANGE.
- THERE ARE NO KNOWN WELLS WITHIN 100 FEET OF THE PROPOSED SEWAGE SYSTEM.
- PERCOLATION RATE DATA FOR PROJECT SITE IS NOT AVAILABLE AND WAIVER IS REQUESTED FOR STATEN ISLAND COOPERATIVE AS PART OF NYC BUILD-IT-BACK PROGRAM. IT IS ASSUMED THAT THE SOIL STRATUM TO WHICH THE EFFLUENT WILL DISCHARGE HAS A PERCOLATION RATE EQUIVALENT TO OR NOT SLOWER THAN THAT OF THE EXISTING SYSTEM.
- MINIMUM REQUIRED CAPACITY OF THE PROPOSED SEPTIC TANK IS 1,000 GALLONS IN ACCORDANCE WITH SCU 1,000 GALLONS IN ACCORDANCE WITH SCU IN ACCORDANCE WITH SCU GUIDELINES APPENDIX 7.
- ONLY RESIDENTIAL AND DOMESTIC SANITARY WASTE IS TO ENTER THE PROPOSED PRIVATE SEWAGE DISPOSAL SYSTEM. STORM WATER OR GROUND WATER SHALL NOT BE DISCHARGED INTO SEPTIC TANK OR SEEPAGE RING.
- NO TREES OR SHRUBS SHALL BE PLANTED WITHIN TEN FEET OF THE PERIMETER OF A SEEPAGE PIT.
- NO AT-GRADE WALKS OR DRIVEWAYS SHALL BE CONSTRUCTED OVER THE PRIVATE SEWAGE SYSTEM UNLESS OTHERWISE NOTED.
- WASHING MACHINES DRAINING TO SEPTIC SYSTEM SHALL USE A CONCENTRATED, LOW SUDSING, LOW OR NO PHOSPHATE BIO-DEGRADABLE LAUNDRY DETERGENT ONLY.
- A PORTION OF THIS WORK MAY BE LOCATED WITHIN WETLANDS. COMPLY WITH APPLICABLE ENVIRONMENTAL PERMITS.

BUILDING DATA	
BOROUGH :	QUEENS
ADDRESS :	213 BAYSIDE AVENUE
BLOCK :	16340
LOT :	50
ZONING :	R4
ZONING MAP NO. :	29D
BIN :	4464495
NO. OF STORIES :	2
HEIGHT OF BUILDING :	33± FEET
FIRE DISTRICT	YES

DOB APPROVAL

DOB B-SCAN STICKER

DRAWING NAME:

SEPTIC SYSTEM

SITE PLAN AND NOTES

DRAWN BY: DK SHEET:

CHECKED BY: MC

SCALE: AS NOTED

DATE: 02/19/18

PAGE

OF

SEP-01.00



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PROJECT: APP-012364

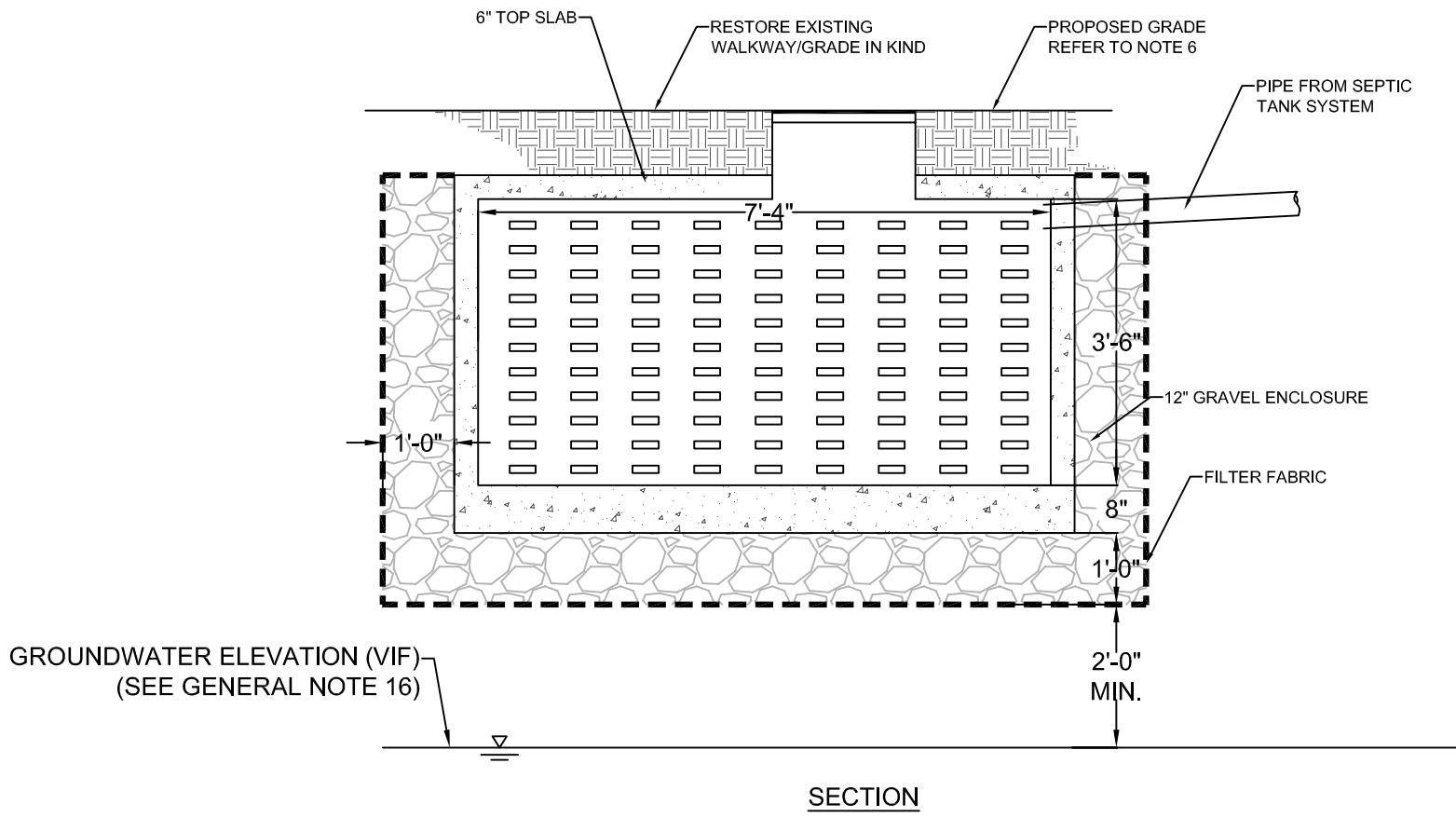
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SEPTIC TANK DETAIL NOTES:

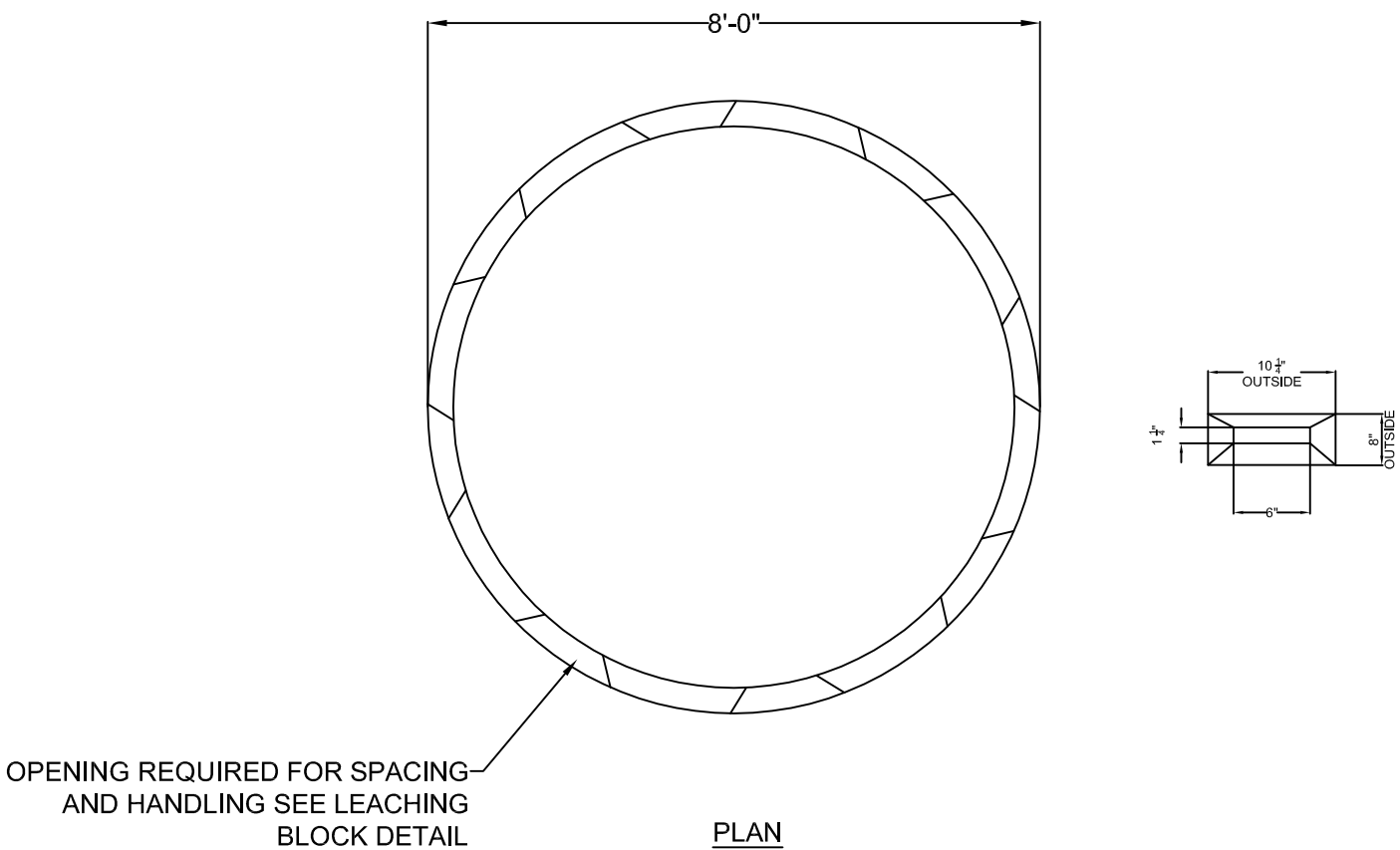
1. INSTALLATION AND MATERIALS OF THE CONCRETE SEPTIC TANK SHALL ADHERE TO ALL RULES AND REGULATIONS FOUND IN THE NYCD08 SEPTIC COMPLIANCE UNIT (SCU) GUIDELINES FOR INDIVIDUAL PRIVATE ON-SITE SEWAGE TREATMENT SYSTEMS AND ASTM C1227, WHICHEVER IS MORE STRINGENT.
2. SEPTIC TANK SHALL BE WATERTIGHT AND ABLE TO SUPPORT A-16 (HS20-44) LOAD RATING AS DEFINED BY ASTM C890 AFTER INSTALLATION. CONCRETE SHALL HAVE A MINIMUM STRENGTH OF 4,000 POUNDS PER SQUARE INCH (PSI) AT 28 DAYS SET.
3. REINFORCEMENT SHALL MEET ASTM A615, GRADE 60. REINFORCEMENT SHALL MEET ASTM A615, GRADE 60.
4. SEPTIC TANK SHALL HAVE EITHER SANITARY TEES OR INLET AND OUTLET BAFFLES IN ACCORDANCE WITH SCU SEPTIC TANK SHALL HAVE EITHER SANITARY TEES OR INLET AND OUTLET BAFFLES IN ACCORDANCE WITH SCU GUIDELINES.
5. WHERE TOP OF SEPTIC TANK AS INSTALLED PROTRUDES ABOVE EXISTING GRADE, CONTRACTOR SHALL BERM WHERE TOP OF SEPTIC TANK AS INSTALLED PROTRUDES ABOVE EXISTING GRADE, CONTRACTOR SHALL BERM LOCALLY AROUND PROPOSED STRUCTURES AND PIPES AS REQUIRED TO PROVIDE ADEQUATE COVER.
6. ACCESS OPENINGS SHALL BE A MINIMUM OF 20 INCHES IN DIAMETER. FOR TANKS THAT WILL HAVE COVERS AT THE FINISHED GRADE ELEVATION, ACCESS COVERS SHALL BE WATER TIGHT, LOCKABLE, AND RATED FOR A MINIMUM OF A-16 (H20-44) LOAD RATING AS DEFINED BY ASTM C890.
7. CONTRACTOR IS ADVISED THAT ACCESS TO SITE MAY BE LIMITED DUE TO EXISTING SITE CONSTRAINTS. CONTRACTOR TO CONFIRM AVAILABLE SITE ACCESS PRIOR TO BID AND FURNISH SEGMENTED SEPTIC TANK AS REQUIRED TO ENSURE DELIVERY AND INSTALLATION CAN BE COMPLETED GIVEN SITE CONSTRAINTS. IN THE EVENT THAT THE CONTRACTOR BELIEVES THE SITE CONSTRAINTS PROHIBIT DELIVERY OF A TANK MEETING THE PROJECT REQUIREMENTS, THE CONTRACTOR SHALL NOTIFY ARCHITECT PRIOR TO BID.
8. SEE DWG. NO. SEP-03 FOR ADDITIONAL NOTES AND REQUIREMENTS.

SEEPAGE RING DETAIL NOTES:

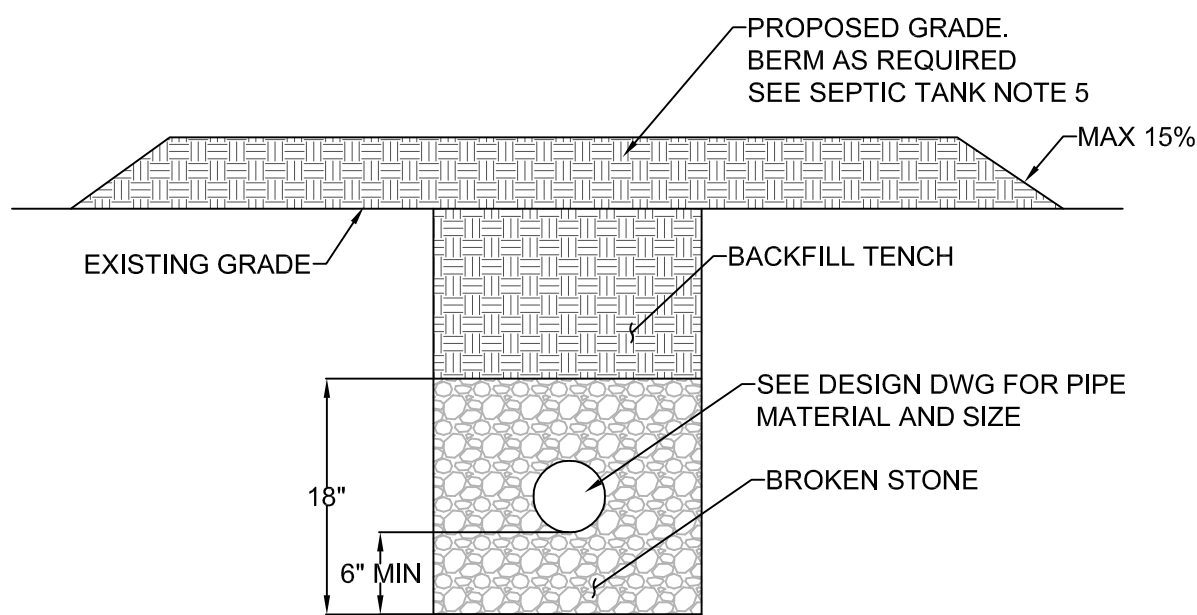
1. SEEPAGE PITS SHALL MEET THE REQUIREMENTS AS FOUND IN THE NYCD08 SEPTIC COMPLIANCE UNIT (SCU) GUIDELINES FOR INDIVIDUAL PRIVATE ON-SITE SEWAGE TREATMENT SYSTEMS AND ASTM C1227, WHICHEVER IS MORE STRINGENT
2. SEEPAGE PIT SHALL BE ABLE TO SUPPORT A-16 (HS20-44) LOAD RATING AS DEFINED BY ASTM C890 AFTER INSTALLATION SEEPAGE PIT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 POUNDS PER SQUARE INCH (PSI) AT 28 DAYS SET
3. SEEPAGE PITS SHALL BE BUILT UPON A 2 FOOT THICK FOUNDATION OF CONCRETE SAND, AS SHOWN IN APPENDIX 8 OF THE NYCD08 SEPTIC COMPLIANCE UNIT GUIDELINES FOR INDIVIDUAL PRIVATE ON-SITE SEWAGE TREATMENT SYSTEMS. THE FOUNDATION SHALL COVER THE ENTIRE BOTTOM OF THE SEEPAGE PIT EXCAVATION REGARDLESS OF OVER EXCAVATION AND SHALL UNDERLAY ALL COMPONENTS INCLUDING THE SAND COLLAR.
4. SEPARATION BETWEEN SAND AND GRAVEL SHALL BE MAINTAINED BY A MESH SCREEN WHICH MAY BE LEFT IN PLACE OR A STEEL FORM WHICH IS TO BE REMOVED AFTER INSTALLATION OF SAND AND GRAVEL.
5. REINFORCEMENT SHALL MEET ASTM A615 GRADE 60; WELDED WIRE MESH SHALL MEET ASTM A185.
6. CONTRACTOR SHALL INSTALL PROPOSED SEEPAGE PIT SO THAT THE BOTTOM OF PROPOSED PIT IS AT OR ABOVE THE BOTTOM OF THE EXISTING SEEPAGE PIT/CESSPOOL OR GROUNDWATER ELEVATION, WHICHEVER IS HIGHER. IN THE EVENT THAT THIS CONDITION CANNOT BE MET, THE CONTRACTOR SHALL INSTALL THE PROPOSED SEEPAGE PIT SUCH THAT ITS TOP ELEVATION MATCHES THE TOP ELEVATION OF THE EXISTING STRUCTURE.
7. WHERE TOP OF PROPOSED SEEPAGE PIT AS INSTALLED PROTRUDES ABOVE EXISTING GRADE, CONTRACTOR SHALL BERM LOCALLY AROUND PROPOSED STRUCTURES AND PIPES AS REQUIRED TO PROVIDE ADEQUATE COVER.
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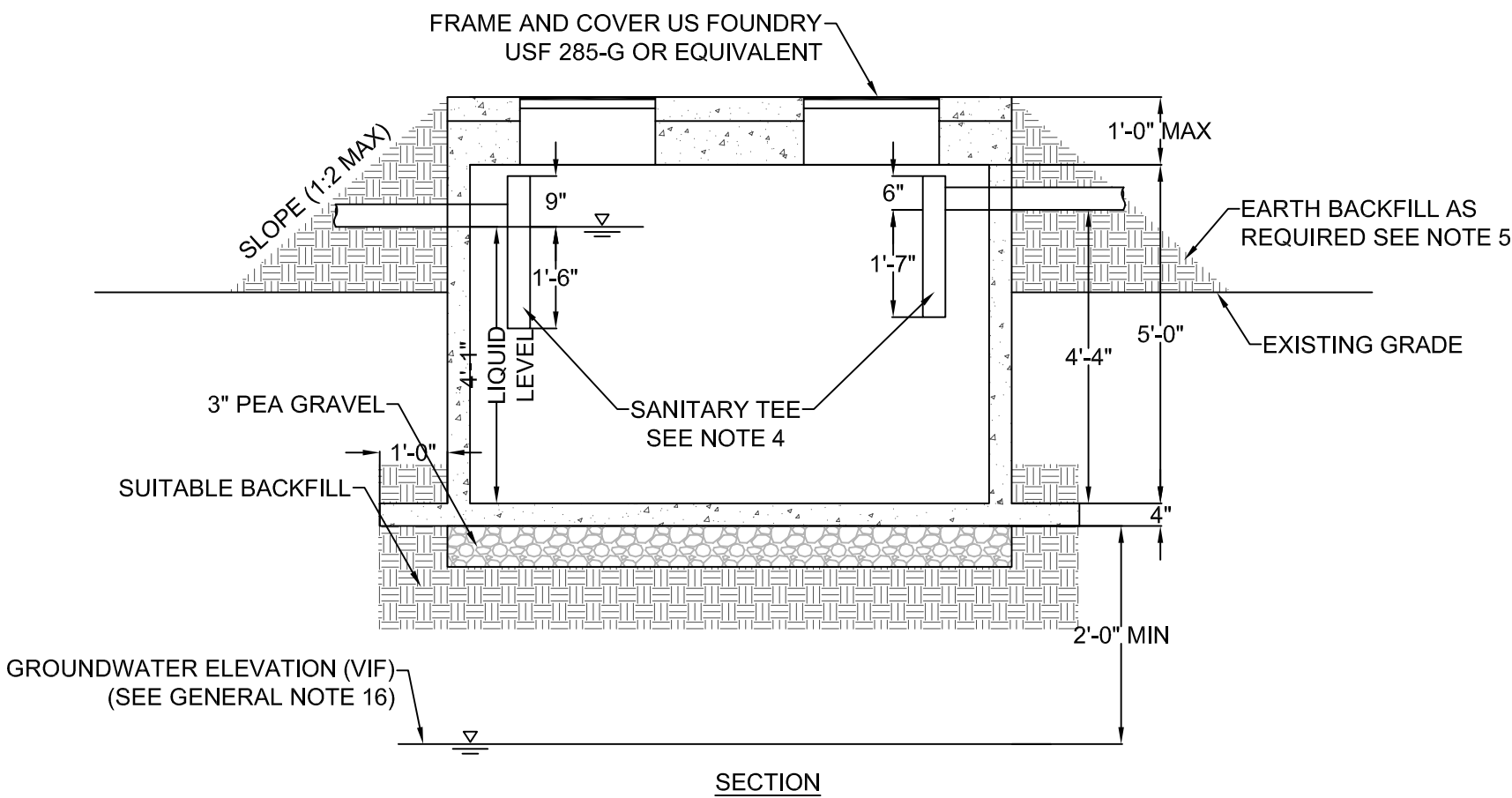
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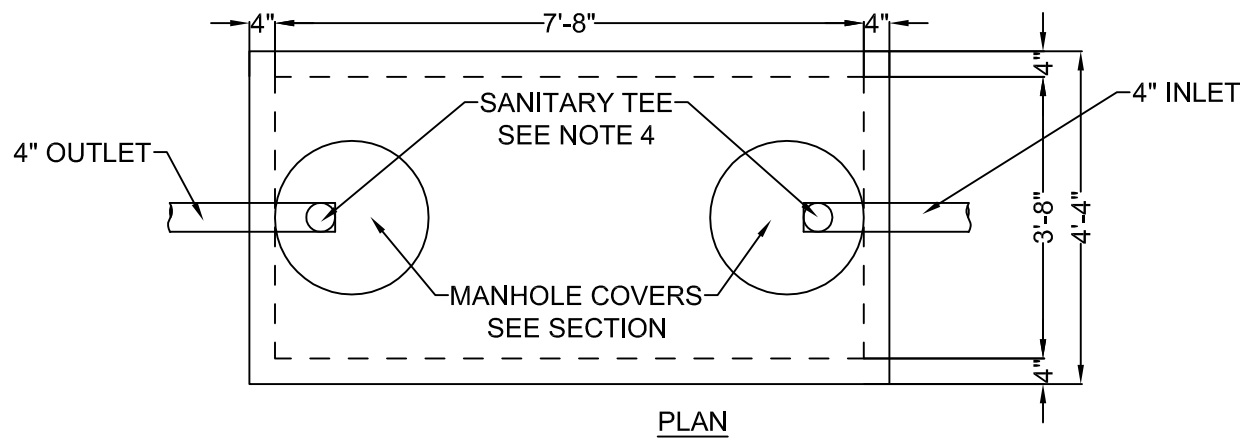
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1 TRENCH DETAIL
SCALE: N.T.S.



3 SEPTIC TANK SECTION
SCALE: N.T.S.



5 SEPTIC TANK DETAIL
SCALE: N.T.S.

NO.	PURPOSE	DATE



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DRAWING NAME:

SEPTIC SYSTEM

NOTES AND DETAILS

DRAWN BY: DK SHEET:

CHECKED BY: MC

SCALE: AS NOTED

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