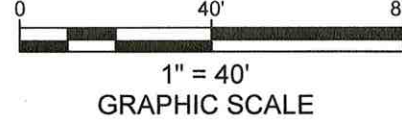


LEGEND

EXISTING LOT LINE	— — — — —
PROPOSED WATER SERVICE	— W —
PROPOSED ABSORPTION TRENCH	=====
100 FT WETLAND BUFFER	~~~~~
PROPOSED SILT FENCE	— SF —
EXISTING WOOD FENCE	— — — — —
PROPOSED CONTOUR	— 812 —
DEEP TEST PIT LOCATION	DT-3
PERC TEST PIT LOCATION	PT-3

SITE PLAN



- MAP NOTES:
1. PROJECT PARCEL BOUNDARY BASED ON METES AND BOUNDS DESCRIPTION(S) FOUND IN DEED (LIBER 1251, PAGE 116), DATED 9/14/1968.
 2. ADJACENT PARCEL BOUNDARIES ARE BASED ON 2021 DUTCHESS COUNTY TAX MAP DATA.
 3. ALL SHOWN TOPOGRAPHIC INFORMATION IS BASED ON NYS CLEARING HOUSE LIDAR CONTOUR DATA PROVIDED DUTCHESS COUNTY.
 4. EXISTING CONDITIONS BASED ON 2021 AERIAL IMAGERY AND FIELD INVESTIGATION CONDUCTED ON 3/20/2023

PROPOSED FILLPADS CONTRACTOR NOTES:

1. THE PROPOSED GRADING FOR FILL PADS ARE ONLY TO BE CONSTRUCTED WHEN THE 100% RESERVE SEPTIC SYSTEMS ARE IN NEED OF INSTALLATION AFTER PRIMARY SYSTEMS HAVE FAILED.

GARAGE ACCESSORY APT. PRIMARY SDS - BASIS OF DESIGN:

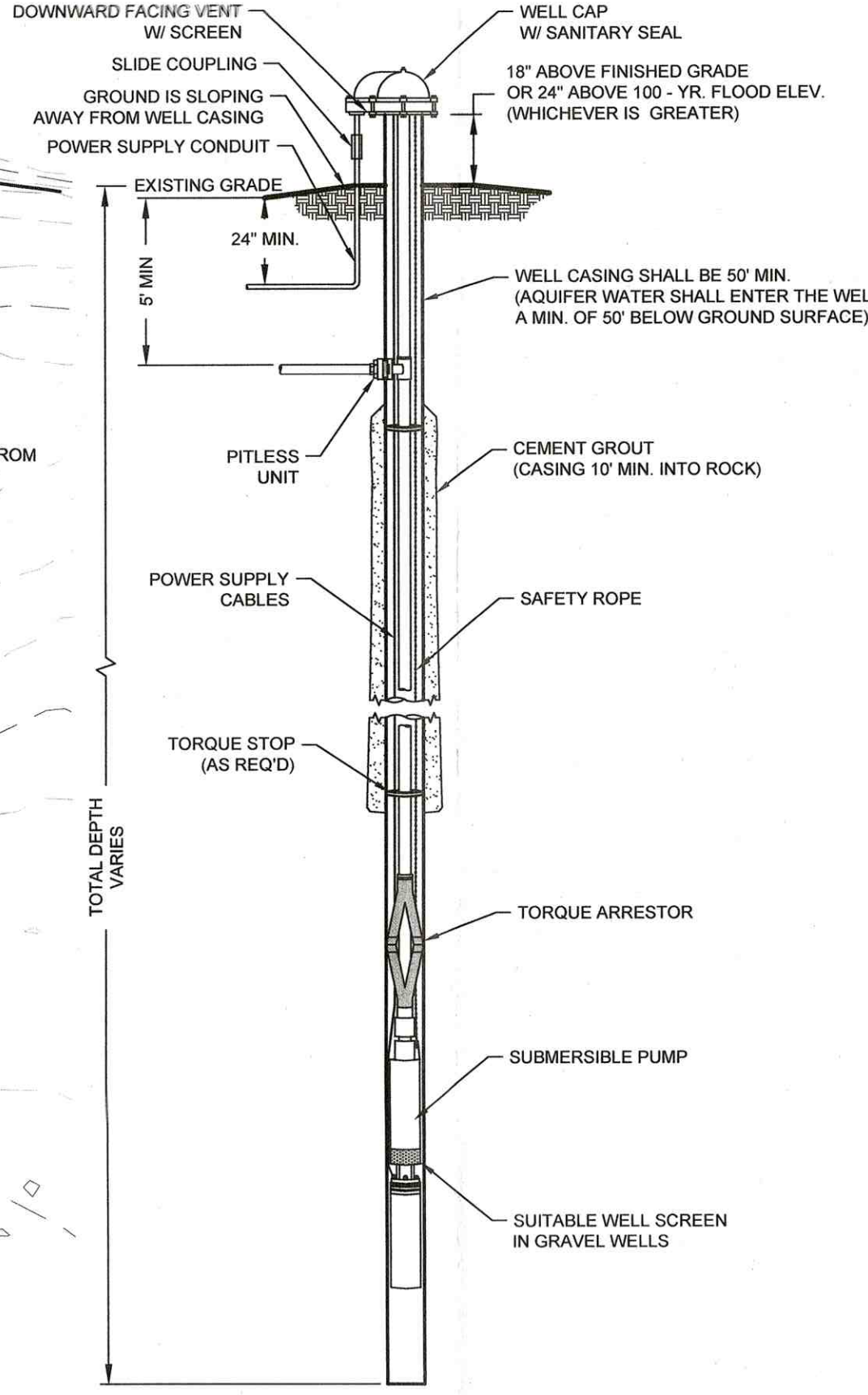
BUILDING TYPE:	RESIDENTIAL
SYSTEM TYPE:	GRAVELLESS ABSORPTION TRENCHES
DESIGN FLOW RATE: 220 GPD	
USE:	FLOW (GPD)
2 BEDROOM MAXIMUM	220
TOTAL	220
STABILIZED PERC RATE:	3 MIN./INCH
APPLICATION RATE	1.2 GAL/DAY/SQ.FT.
ABSORPTION AREA	220 GPD / 1.2 GAL/DAY/SQ.FT. = 183.33 SQ-FT
GRAVELLESS ABSORPTION AREA	183.33 SQ-FT X 0.75 = 137.5
REQUIRED TRENCH LENGTH	137.5 SQ-FT / 2 FT WIDE TRENCH = 68.75 LF OF TRENCH
TRENCH DEPTHS	18" - 24"
LATERAL SPACING	6' O.C.
NO. OF LATERALS	7 (TOTAL OF 14 QUICKS E036 CHAMBERS OR TOTAL OF 14 ARC-24 CHAMBERS)
LENGTH OF LATERALS	10' IF USING QUICKS E036, 10' IF USING ARC-24
DEPTH TO ROCK:	84" (DT-1)
DEPTH TO WATER:	N/A
DEPTH OF FILL REQ.	0'
LOWEST SEWERABLE ELEV. (LSE)	421'

GARAGE ACCESSORY APT. 100% RESERVE SDS - BASIS OF DESIGN:

BUILDING TYPE:	RESIDENTIAL
SYSTEM TYPE:	GRAVELLESS ABSORPTION TRENCHES
DESIGN FLOW RATE: 220 GPD	
USE:	FLOW (GPD)
2 BEDROOM MAXIMUM	220
TOTAL	220
STABILIZED PERC RATE:	3 MIN./INCH
APPLICATION RATE	1.2 GAL/DAY/SQ.FT.
ABSORPTION AREA	220 GPD / 1.2 GAL/DAY/SQ.FT. = 183.33 SQ-FT
GRAVELLESS ABSORPTION AREA	183.33 SQ-FT X 0.75 = 137.5 SQ-FT
REQUIRED TRENCH LENGTH	137.5 SQ-FT / 2 FT WIDE TRENCH = 68.75 LF OF TRENCH
TRENCH DEPTHS	18" - 24"
LATERAL SPACING	6' O.C.
NO. OF LATERALS	7 (TOTAL OF 14 QUICKS E036 CHAMBERS OR TOTAL OF 14 ARC-24 CHAMBERS)
LENGTH OF LATERALS	10' IF USING QUICKS E036, 10' IF USING ARC-24
DEPTH TO ROCK:	67" (DT-3)
DEPTH TO WATER:	N/A
DEPTH OF FILL REQ.	2'
LOWEST SEWERABLE ELEV. (LSE)	421'

MAIN HOUSE 100% RESERVE SDS - BASIS OF DESIGN:

BUILDING TYPE:	RESIDENTIAL
SYSTEM TYPE:	GRAVELLESS ABSORPTION TRENCHES
DESIGN FLOW RATE: 550 GPD	
USE:	FLOW (GPD)
5 BEDROOM MAXIMUM	550
TOTAL	550
STABILIZED PERC RATE:	5 MIN./INCH
APPLICATION RATE	1.2 GAL/DAY/SQ.FT.
ABSORPTION AREA	550 GPD / 1.2 GAL/DAY/SQ.FT. = 458.33 SQ-FT
GRAVELLESS ABSORPTION AREA	458.33 SQ-FT X 0.75 = 343.75 SQ-FT
REQUIRED TRENCH LENGTH	343.75 SQ-FT / 2 FT WIDE TRENCH = 171.875 LF OF TRENCH
TRENCH DEPTHS	18" - 24"
LATERAL SPACING	6' O.C.
NO. OF LATERALS	4 (TOTAL OF 36 QUICKS E036 CHAMBERS OR TOTAL OF 36 ARC-24 CHAMBERS)
LENGTH OF LATERALS	45' IF USING QUICKS E036, 45' IF USING ARC-24
DEPTH TO ROCK:	37" (DT-1)
DEPTH TO WATER:	N/A
DEPTH OF FILL REQ.	4'
LOWEST SEWERABLE ELEV. (LSE RESERVE ONLY)	426.5'



TYPICAL WELL DETAIL

- NOTES:
1. TO BE INSTALLED PER THE REQUIREMENTS OF 5-B-10NYCRR
- WAIVER NOTES:
1. THE PLANS SHOW SOME KNOWN SUBSURFACE STRUCTURES, ABOVE GROUND STRUCTURES AND/OR UTILITIES BELIEVED TO EXIST IN THE WORKING AREA, EXACT LOCATIONS OF WHICH MAY VARY FROM THE LOCATIONS INDICATED. IN PARTICULAR, THE CONTRACTOR IS WARNED THAT THE EXACT OR EVEN APPROXIMATE LOCATIONS OF SUCH PIPELINES, SUBSURFACE STRUCTURES AND/OR UTILITIES IN THE AREA MAY BE SHOWN OR MAY NOT BE SHOWN, AND IT SHALL BE HIS (THE CONTRACTOR'S) RESPONSIBILITY TO PROCEED WITH GREAT CARE IN EXECUTING ANY WORK.
 2. PRIOR TO THE INSTALLATION OF ANY NEW STRUCTURE, PIPELINE OR EQUIPMENT WHICH REQUIRES CONNECTION TO OR CROSSING OF ANY EXISTING STRUCTURE, PIPELINE OR EQUIPMENT, THE CONTRACTOR IS DIRECTED TO LOCATE SUCH EXISTING STRUCTURE, PIPELINE OR EQUIPMENT TO ASCERTAIN IF SAID ITEM IS IN CONFLICT OR CONTRADICTION TO THE INTENT OF THE CONTRACT PLANS OR SPECIFICATIONS.
 3. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY CONDITIONS THAT VARY FROM THOSE SHOWN ON THE PLANS. THE CONTRACTOR'S WORK SHALL NOT VARY FROM THE PLANS WITHOUT THE EXPRESSED APPROVAL OF THE ENGINEER.
 4. THE CONTRACTOR IS INSTRUCTED TO COOPERATE WITH ANY AND ALL OTHER CONTRACTORS PERFORMING WORK ON THIS JOB SITE DURING THE PERFORMANCE OF THIS CONTRACT.
 5. THE OPERATION OF THE EXISTING FACILITY IS NOT TO BE DISRUPTED UNTIL THE PORTIONS OF THE NEW FACILITY HAVE BEEN ACCEPTED, APPROVED BY THE ENGINEER, AND ARE IN OPERATION.

EXISTING SDS REMOVAL NOTES FOR 2-BEDROOM GARAGE ACCESSORY APARTMENT:

1. THE EXISTING SEPTIC TANK SHALL BE PUMPED OUT AND HAULED TO A NYSDC CERTIFIED DISPOSAL SITE AND THE TANK SHALL BE CRUSHED, AND BURIED IN A SEPARATE SUITABLE ONSITE LOCATION.
2. THE EXISTING SEWAGE DISPOSAL SYSTEM LATERALS SHALL BE DISCONNECTED AND ABANDONED IN PLACE.
3. A NEW YORK STATE LICENSED PROFESSIONAL ENGINEER SHALL CERTIFY IN WRITING TO THE DUTCHESS COUNTY DEPARTMENT OF HEALTH THAT THE EXISTING SDS WAS DISCONNECTED AND NO LONGER IN USE ACCORDING TO DCDOH REGULATIONS.

- EXISTING CONDITION NOTES:
1. THE PLANS SHOW SOME KNOWN SUBSURFACE STRUCTURES, ABOVE GROUND STRUCTURES AND/OR UTILITIES BELIEVED TO EXIST IN THE WORKING AREA, EXACT LOCATIONS OF WHICH MAY VARY FROM THE LOCATIONS INDICATED. IN PARTICULAR, THE CONTRACTOR IS WARNED THAT THE EXACT OR EVEN APPROXIMATE LOCATIONS OF SUCH PIPELINES, SUBSURFACE STRUCTURES AND/OR UTILITIES IN THE AREA MAY BE SHOWN OR MAY NOT BE SHOWN, AND IT SHALL BE HIS (THE CONTRACTOR'S) RESPONSIBILITY TO PROCEED WITH GREAT CARE IN EXECUTING ANY WORK.
 2. PRIOR TO THE INSTALLATION OF ANY NEW STRUCTURE, PIPELINE OR EQUIPMENT WHICH REQUIRES CONNECTION TO OR CROSSING OF ANY EXISTING STRUCTURE, PIPELINE OR EQUIPMENT, THE CONTRACTOR IS DIRECTED TO LOCATE SUCH EXISTING STRUCTURE, PIPELINE OR EQUIPMENT TO ASCERTAIN IF SAID ITEM IS IN CONFLICT OR CONTRADICTION TO THE INTENT OF THE CONTRACT PLANS OR SPECIFICATIONS.
 3. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY CONDITIONS THAT VARY FROM THOSE SHOWN ON THE PLANS. THE CONTRACTOR'S WORK SHALL NOT VARY FROM THE PLANS WITHOUT THE EXPRESSED APPROVAL OF THE ENGINEER.
 4. THE CONTRACTOR IS INSTRUCTED TO COOPERATE WITH ANY AND ALL OTHER CONTRACTORS PERFORMING WORK ON THIS JOB SITE DURING THE PERFORMANCE OF THIS CONTRACT.
 5. THE OPERATION OF THE EXISTING FACILITY IS NOT TO BE DISRUPTED UNTIL THE PORTIONS OF THE NEW FACILITY HAVE BEEN ACCEPTED, APPROVED BY THE ENGINEER, AND ARE IN OPERATION.

DEEP TEST RESULTS (5/23/2023):

HOLE #	TOTAL DEPTH	ROCK DEPTH	WATER DEPTH	MOTTLED DEPTH	SOIL DESCRIPTION
1	84"	N/A	N/A	N/A	0'-6" TOP SOIL 6"-84" FINE SAND
2	36"	36"	N/A	N/A	0'-6" TOP SOIL 6"-36" SANDY SILT
3	87"	67"	N/A	N/A	0'-6" TOP SOIL 6"-67" SANDY SILT
4	52"	52"	N/A	N/A	0'-10" TOP SOIL 10"-52" SANDY SILT
5	37"	37"	N/A	N/A	0'-6" TOP SOIL 6"-37" SANDY SILT

PERC TEST RESULTS (5/24/2023):

Test Hole No.	Test Hole Depth	Soil Type	Soaked	TEST RUNS
				* 1 2 3 4
1	24"	SANDY SILT	YES	Finish 11:29 11:32 11:36 Start 11:28 11:30 11:33 Time 1 min 2 min 2 min 11:42 11:45 11:49
2	24"	FINE SAND	YES	Finish 11:40 11:42 11:46 Start 11:39 11:41 11:45 Time 2 min 3 min 3 min 11:51 11:54 11:57
3	24"	SANDY SILT	YES	Finish 11:50 11:52 11:55 Start 11:49 11:51 11:54 Time 1 min 2 min 2 min 12:04 12:09 12:14
4	24"	SANDY SILT	YES	Finish 12:00 12:04 12:09 Start 11:59 12:01 12:05 Time 4 min 5 min 5 min

- ADDITIONAL DOH NOTES:
1. THE PERCOLATION TESTS WERE PRE-SOAKED IN ACCORDANCE WITH DC EHS POLICY AND STANDARD "PERCOLATION TEST PROCEDURE" AS PER DC47 OF THE DEPARTMENT OF HEALTH'S PLAN SUBMISSION GUIDE.

DATE	REVISION
8/28/2024	REVISED AS PER DCDOH COMMENTS
12/17/2024	REVISED AS PER DCDOH COMMENTS
1/9/2025	REVISED AS PER DCDOH COMMENTS
3/3/2025	REVISED AS PER DCDOH COMMENTS

ENGINEERING, DESIGN, & PLANS PREPARED BY:

RENNIA ENGINEERING DESIGN, PLLC

CIVIL • ENVIRONMENTAL • STRUCTURAL
6 Dover Village Plaza, Suite 5, P.O. Box 400, Dover Plains, NY 12522
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IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW FOR ANY PERSON TO ALTER THESE PLANS, SPECIFICATIONS OR REPORTS IN ANY WAY, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER.



TOWN OF DOVER

DUTCHESS COUNTY, NY

ACCESSORY APARTMENT SEWAGE DISPOSAL SYSTEM

DATE	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY	JOB NO.	SHEET NO.
8/1/2023	1" = 40'	RED	RED	RAR	14-028	1 of 2

VICINITY PLAN

SCALE: 1" = 2,000'

RECOMMENDED FOR APPROVAL

Donald D. Miller

DUTCHESS COUNTY DEPARTMENT OF HEALTH APPROVED

DATE: 3-21-2025

PROJECT: Fila - SANITARY DISPOSAL SYSTEM & WELL LOCATION FOR A 2-BEDROOM ACCESSORY APT.

TOWN OF DOVER
John Fila P.E.
SUPERVISING PUBLIC HEALTH ENGINEER

DUTCHESS COUNTY DOH - APPROVAL BLOCK

OWNER'S CONSENT NOTE:

THE UNDERSIGNED OWNER OF THE PROPERTY HEREON STATES THAT I AM FAMILIAR WITH THIS MAP, ITS CONTENTS AND LEGENDS AND HEREBY CONSENT TO ALL SAID TERMS AND CONDITIONS AS STATED HEREON AND TO THE FILING OF THIS PLAN IN THE OFFICE OF THE CLERK OF THE COUNTY OF DUTCHESS, IF REQUIRED.

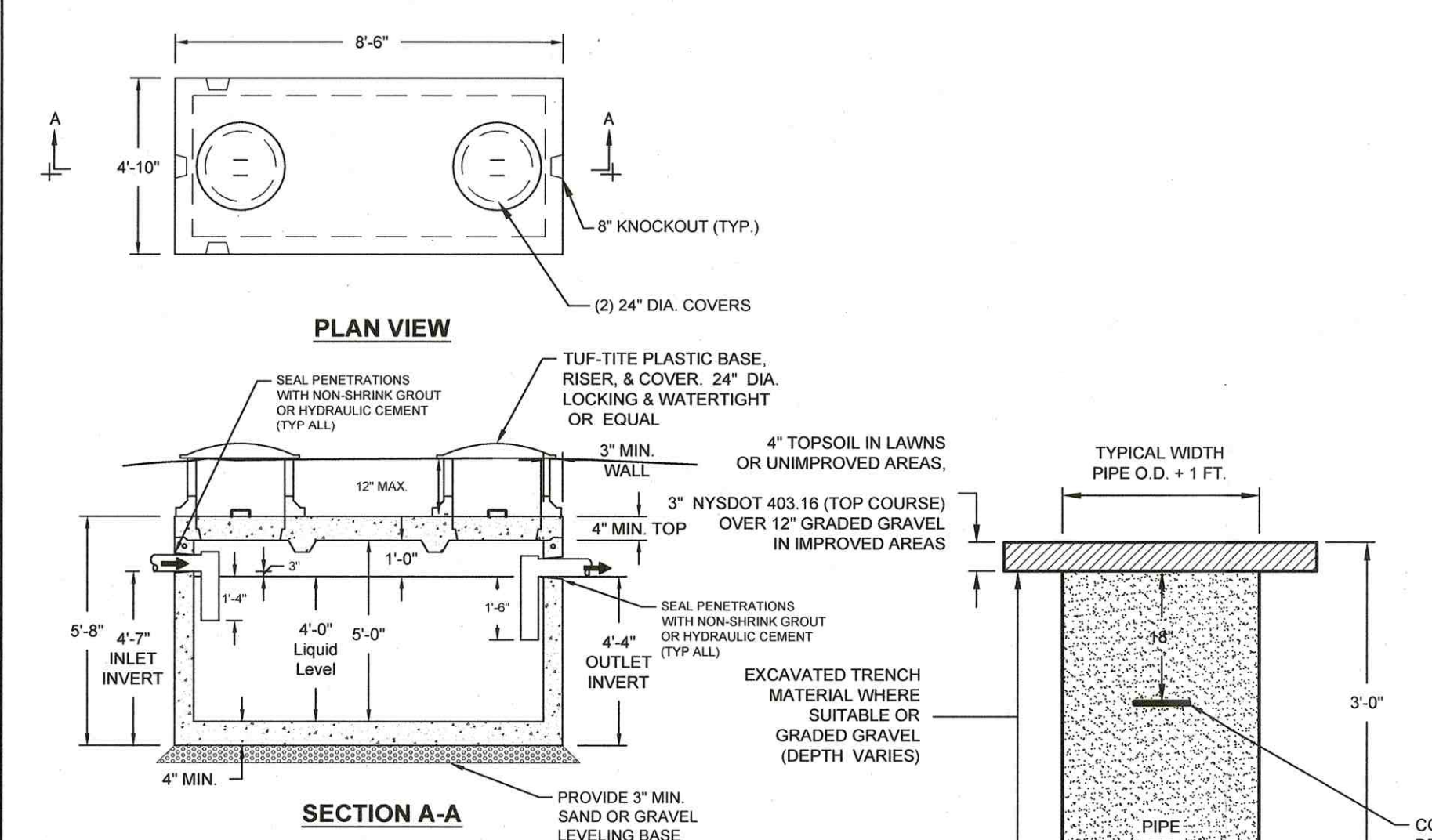
SIGNED THIS 6 DAY OF March 2025

John Fila OWNER'S SIGNATURE

John Fila OWNER'S NAME

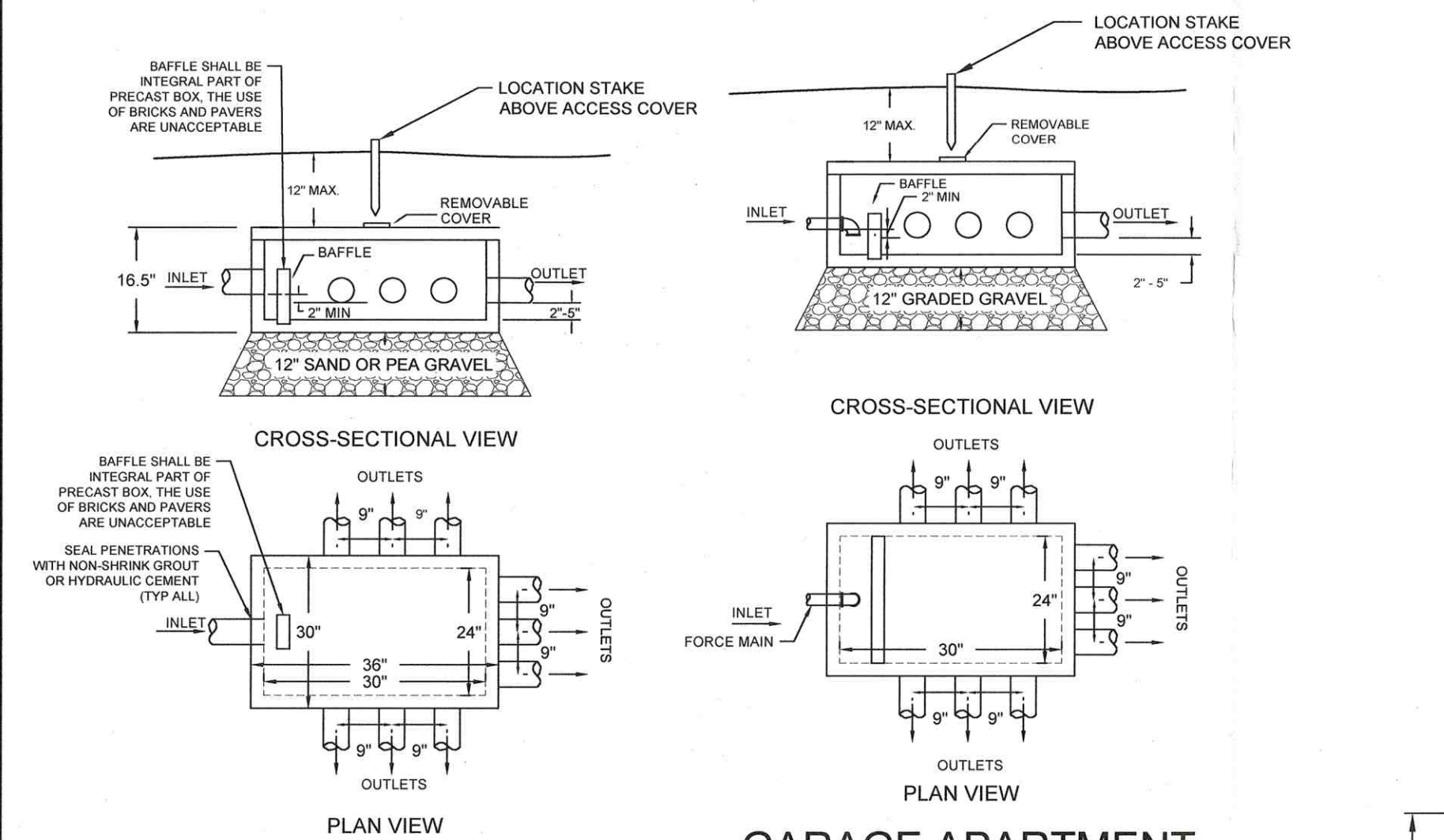
SITE DATA

ZONING DISTRICT: "RU" RURAL DISTRICT
LOT SIZE: 3.32 ACRES
TAX GRID No.: 132600-7061-00-507209
PROPERTY ADDRESS: 72 RAMAH ROAD WINGDALE, NY 12594
PROPERTY OWNER: JOHN FILA 72 RAMAH ROAD WINGDALE, NEW YORK 12594



1,000 GALLON SEAMLESS SEPTIC TANK DETAIL

- NOTES:
1. CONCRETE SEPTIC TANK TO BE NEW AND WATERTIGHT.
 2. TOP TO SUPPORT AASHTO H10 NON-TRAFFIC LOAD.
 3. DIMENSIONS AND CONFIGURATION MAY VARY DEPENDING UPON MANUFACTURER.
 4. ALL PIPE PENETRATIONS TO USE 4" WATERTIGHT HDPE PIPE SEALS.
 5. BUTYL RUBBER SEALANT AT ALL JOINTS.
 6. CONCRETE STRENGTH - 4000 PSI AT 28 DAYS.
 7. STEEL REINFORCEMENT: #4 REBAR, 6" X 6" X 10ga WWM.
 8. INLET/OUTLET BAFFLES MAY BE USED INSTEAD OF SANITARY TEES.
 9. CONTRACTOR SHALL DEMONSTRATE THAT THE SEPTIC TANK IS WATER TIGHT AND TEST SHALL BE WITNESSED BY DESIGN ENGINEER OR A DOH REPRESENTATIVE.
 10. MAXIMUM DEPTH OVER SEPTIC TANK IS 12" WITHOUT RISERS. PROVIDE RISER FOR DEPTHS GREATER THAN 12".
 11. GRADE IS TO SLOPE AWAY FROM THE MANHOLES.

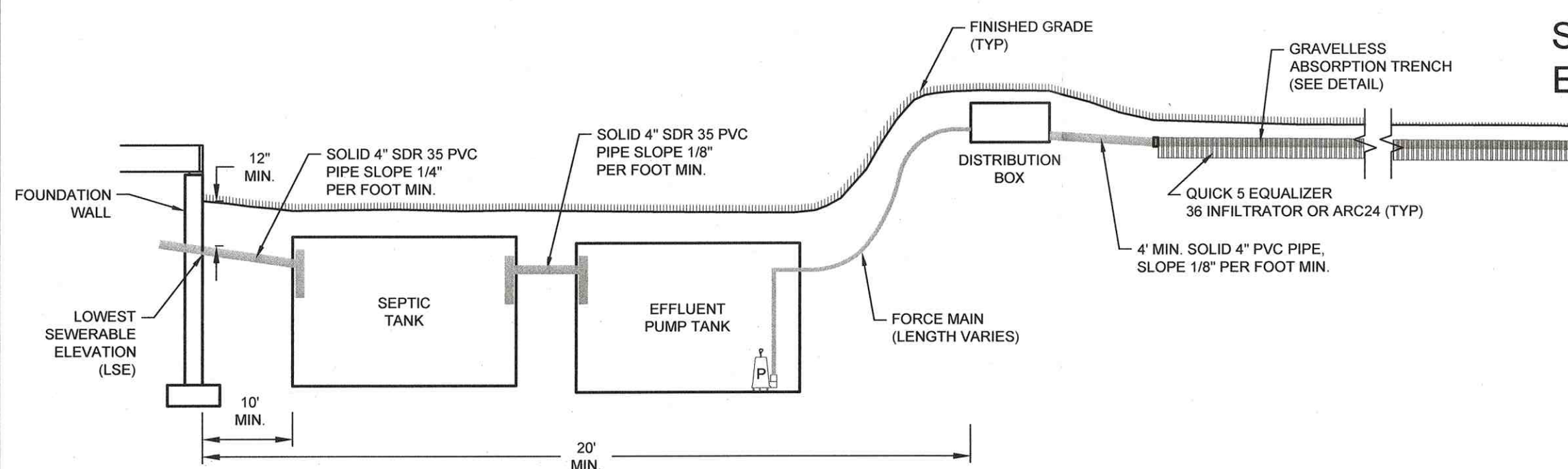


5-BEDROOM HOME RESERVE PRE-CAST CONCRETE DISTRIBUTION BOX

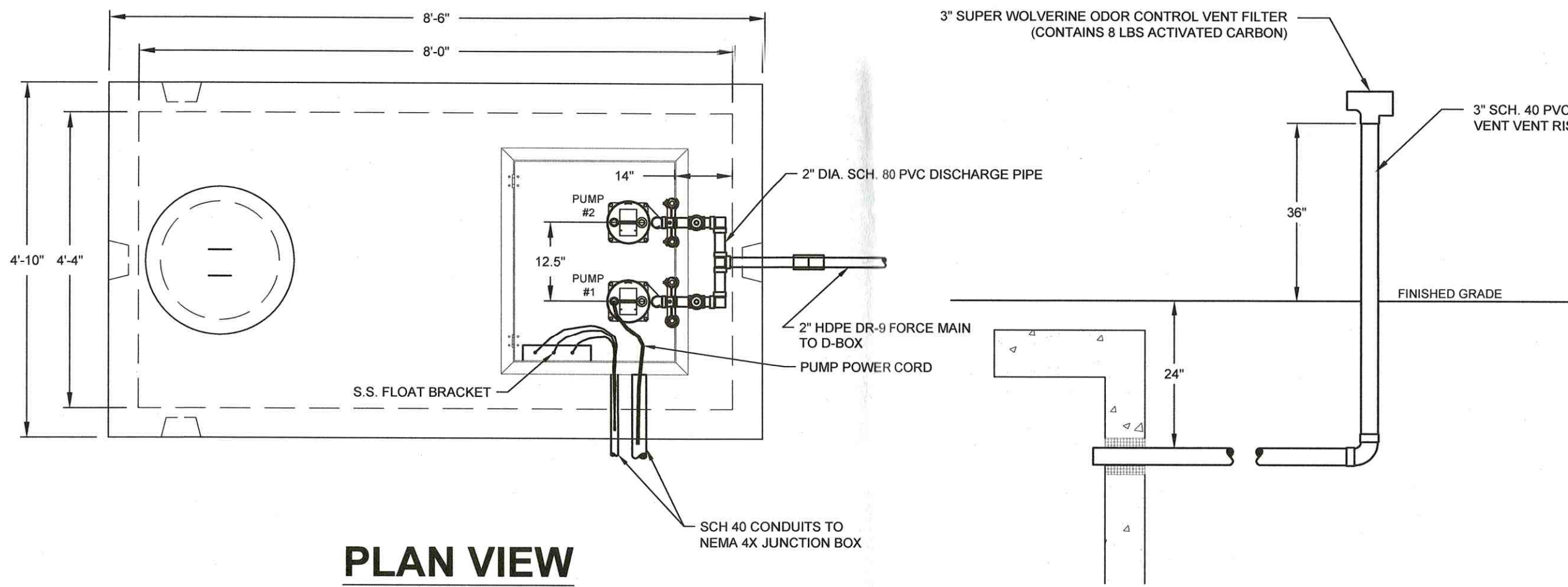
- NOTES:
1. PROVIDE A MINIMUM OF 4" OF SOLID PIPE BETWEEN DISTRIBUTION BOX AND LATERALS.
 2. BOX SHALL BE SET LEVEL.
 3. INVERT OF ALL OUTLETS TO BE SET AT SAME ELEVATION, SPEED LEVELERS TO BE USED IF NECESSARY.
 4. FILL UNUSED OUTLETS WITH CONCRETE.
 5. NUMBER OF PENETRATIONS AS REQUIRED PER DESIGN SCHEDULE.
 6. DESIGN LOADING: AASHTO H10.
 7. CONCRETE STRENGTH: 5,000 P.S.I. 28 DAYS.
 8. STEEL REINFORCEMENT: 6" X 6" X W2.9 X W2.9 WWM.
 9. DIMENSIONS MAY VARY BETWEEN MANUFACTURERS.

GARAGE APARTMENT FORCE MAIN PRE-CAST CONCRETE DISTRIBUTION BOX

- NOTES:
1. PROVIDE A MINIMUM OF 4" OF SOLID PIPE BETWEEN DISTRIBUTION BOX AND LATERALS.
 2. BOX SHALL BE SET LEVEL.
 3. INVERT OF ALL OUTLETS TO BE SET AT SAME ELEVATION, SPEED LEVELERS TO BE USED IF NECESSARY.
 4. FILL UNUSED OUTLETS WITH CONCRETE.
 5. NUMBER OF PENETRATIONS AS REQUIRED PER DESIGN SCHEDULE.
 6. DESIGN LOADING: AASHTO H10.
 7. CONCRETE STRENGTH: 5,000 P.S.I. 28 DAYS.
 8. STEEL REINFORCEMENT: 6" X 6" X W2.9 X W2.9 WWM.
 9. DIMENSIONS MAY VARY BETWEEN MANUFACTURERS.

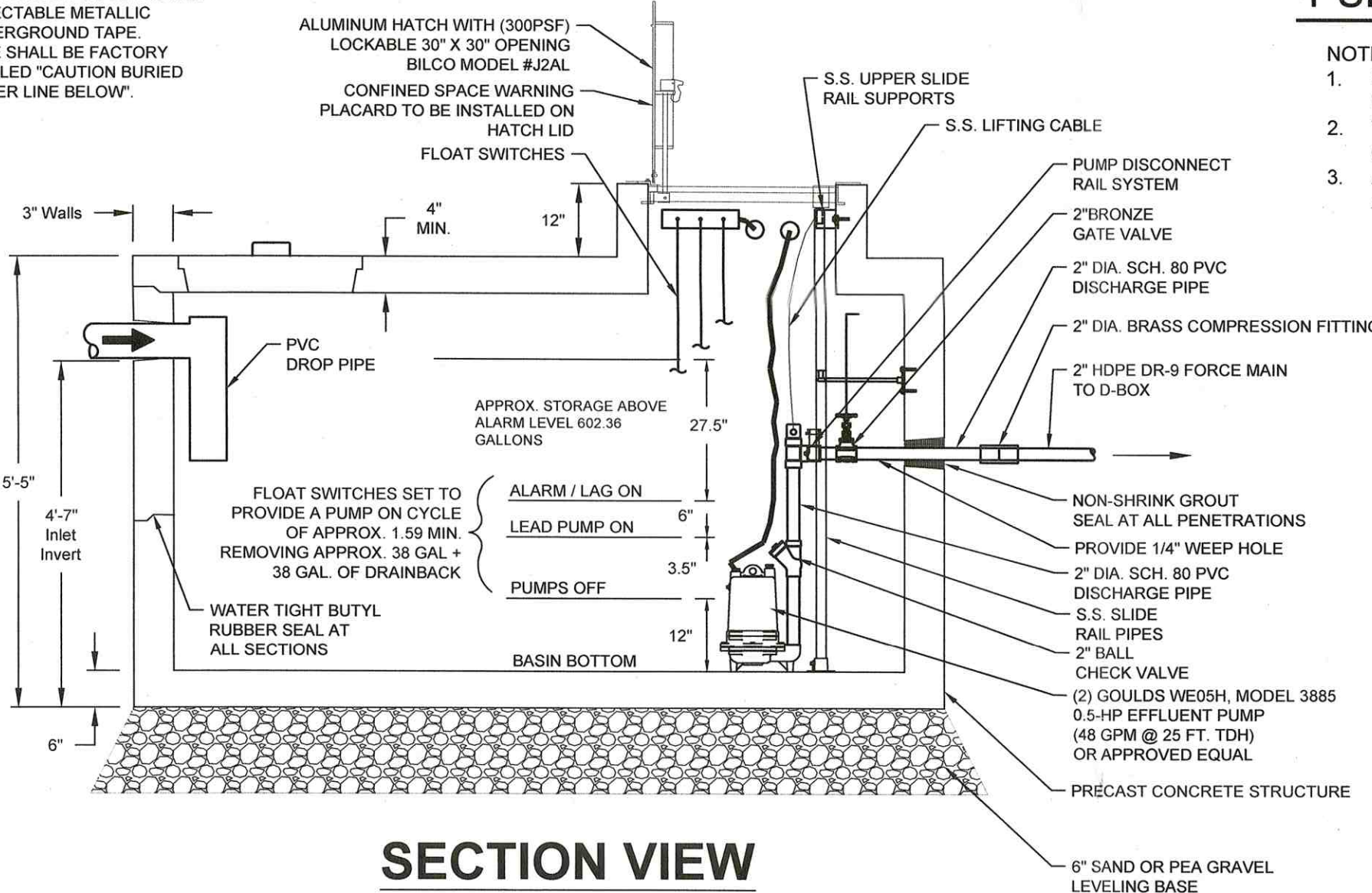


TYPICAL DISPOSAL SYSTEM PROFILE



PUMP CHAMBER VENT DETAIL

- NOTES:
1. SITE CONTRACTOR SHALL INSTALL A VENT IN THE WASTEWATER PUMP CHAMBER.
 2. THE VENT SHALL BE INSTALLED WITH AN ACTIVATED CARBON FILTER TO CONTROL ODORS.
 3. ALL VENTS SHALL BE MAINTAINED AND INSPECTED ON A QUARTERLY BASIS.



SECTION VIEW

1,000 GALLON PUMP TANK W/ SLIDE RAILS DETAIL

- NOTES:
1. CONCRETE PUMP TANK TO BE NEW AND WATERTIGHT.
 2. TOP TO SUPPORT AASHTO H10 NON-TRAFFIC LOAD.
 3. DIMENSIONS AND CONFIGURATION MAY VARY DEPENDING UPON MANUFACTURER.
 4. ALL PIPE PENETRATIONS TO USE 4" WATERTIGHT HDPE PIPE SEALS.
 5. BUTYL RUBBER SEALANT AT ALL JOINTS.
 6. CONCRETE STRENGTH - 4000 PSI AT 28 DAYS.
 7. STEEL REINFORCEMENT: #4 REBAR, 6" X 6" X 10ga WWM.
 8. INLET/OUTLET BAFFLES MAY BE USED INSTEAD OF SANITARY TEES.
 9. CONTRACTOR SHALL DEMONSTRATE THAT THE PUMP TANK IS WATER TIGHT AND TEST SHALL BE WITNESSED BY DESIGN ENGINEER OR A DOH REPRESENTATIVE.
 10. MAXIMUM DEPTH OVER PUMP TANK IS 12". PROVIDE RISER FOR DEPTHS GREATER THAN 12".
 11. REFER TO ENGINEER'S REPORT FOR PUMP SETTINGS FOR 100% RESERVE SYSTEM.
 12. THE GRADE SHALL SLOPE AWAY FROM THE ACCESS PORT.

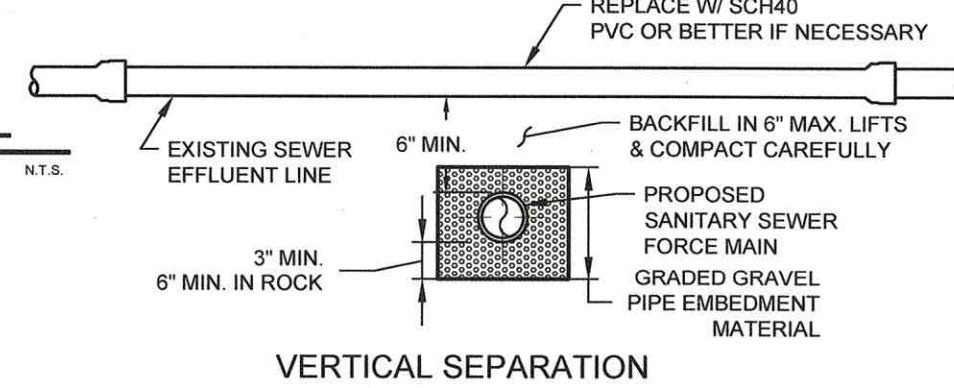


CONFINED SPACE WARNING SIGN DETAIL

- NOTES:
1. PROVIDE OSHA COMPLIANT CONFINED SPACE SIGN AT ALL REQUIRED LOCATIONS.
 2. SIGN SHALL HAVE YELLOW BACKGROUND AND BLACK LETTERS.
 3. SIGN SHALL BE AFFIXED TO THE INSIDE OF THE ACCESS HATCH COVER OF THE VALVE PIT.
 4. ENAMEL-COATED 1mm ALUMINUM SIGN.

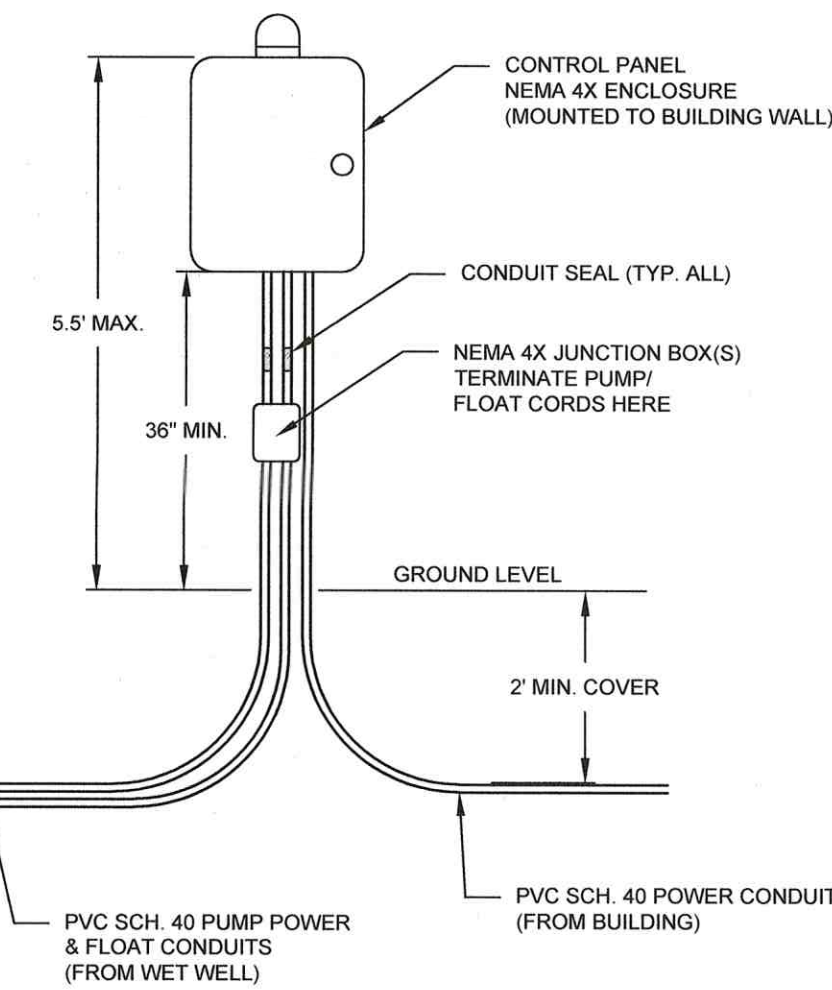
PUMP SYSTEM TESTING REQUIREMENTS

1. THE FORCE MAIN SHALL BE SUBJECTED TO A 2 HOUR HYDROSTATIC PRESSURE TEST OF 1.5 X THE AVERAGE WORKING PRESSURE OF THE LINE IF NOT INSTALLED AS ONE CONTINUOUS COIL.
2. THE PUMP CHAMBER SHALL BE SUBJECT TO A 24 HOUR WATER EXFILTRATION TEST IF NOT INSTALLED AS ONE PIECE. THE MAXIMUM LEAKAGE ALLOWANCE FOR ALL MANHOLES / PUMP CHAMBERS SHALL BE 2.424 TABLESPOONS (0.00947 GALLON) PER FOOT DIAMETER PER FOOT OF DEPTH PER 24 HOURS.
3. REPLACE W/ SCH40 PVC OR BETTER IF NECESSARY.



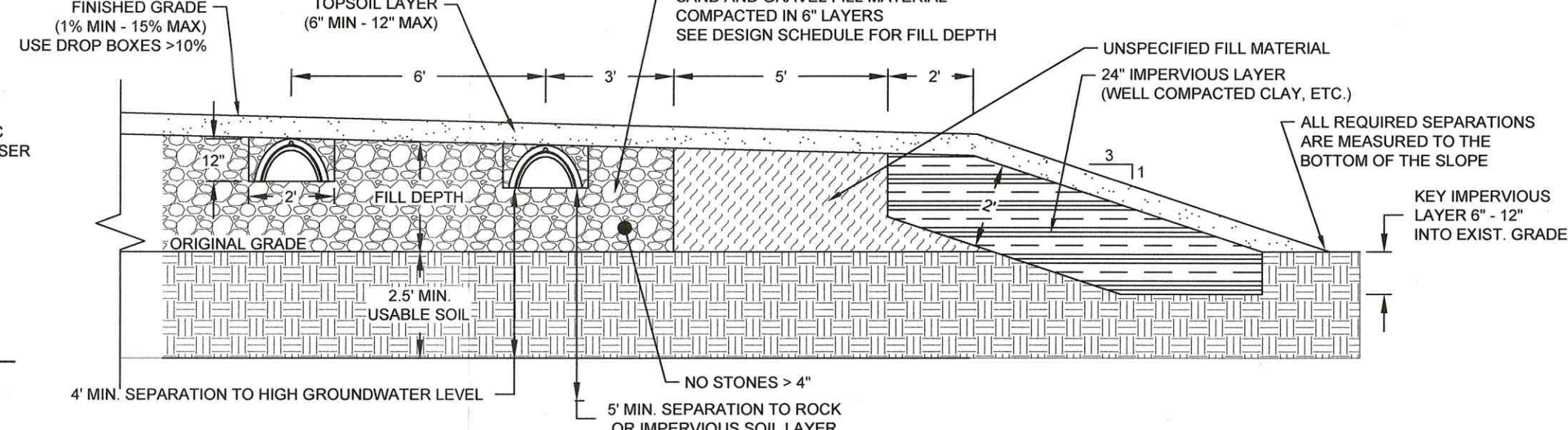
SEWER FORCE MAIN & EXISTING SEWER EFFLUENT LINE CROSS SECTION DETAIL

- NOTE:
1. NO DEVIATION IN THE SEPARATION REQUIREMENTS WILL BE PERMITTED WITHOUT THE EXPRESS APPROVAL OF THE ENGINEER. WHEN SEPARATION DISTANCES CANNOT BE MAINTAINED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR FURTHER INSTRUCTIONS AND DIRECTIVES.
 2. IF EXISTING SEWER EFFLUENT LINES ARE FOUND TO BE IN POOR CONDITION OR DO NOT MEET THE MINIMUM STRENGTH REQUIREMENTS, THE SECTION OF EXPOSED SEWER EFFLUENT LINE SHALL BE REPLACED WITH A SCH-40 PVC OR BETTER PIPING.



CONTROL PANEL DETAIL

- NOTES:
1. ALL ELECTRICAL WORK TO BE PERFORMED SHALL CONFORM TO THE NATIONAL ELECTRIC CODE (NEC).
 2. ELECTRICAL CONTRACTOR TO DETERMINE CONDUIT SIZES IN ACCORDANCE WITH THE NEC.
 3. ELECTRICAL CONTRACTOR TO COORDINATE ALL REQUIRED PENETRATIONS & SIZES WITH SITE CONTRACTOR AND/OR PRECAST MANUFACTURER.
 4. ALL FASTENERS, BOLTS, ETC. USED TO MOUNT THE ELECTRICAL EQUIPMENT SHALL BE HOT DIPPED GALVANIZED OR STAINLESS STEEL.



TYPICAL FILL SECTION DETAIL

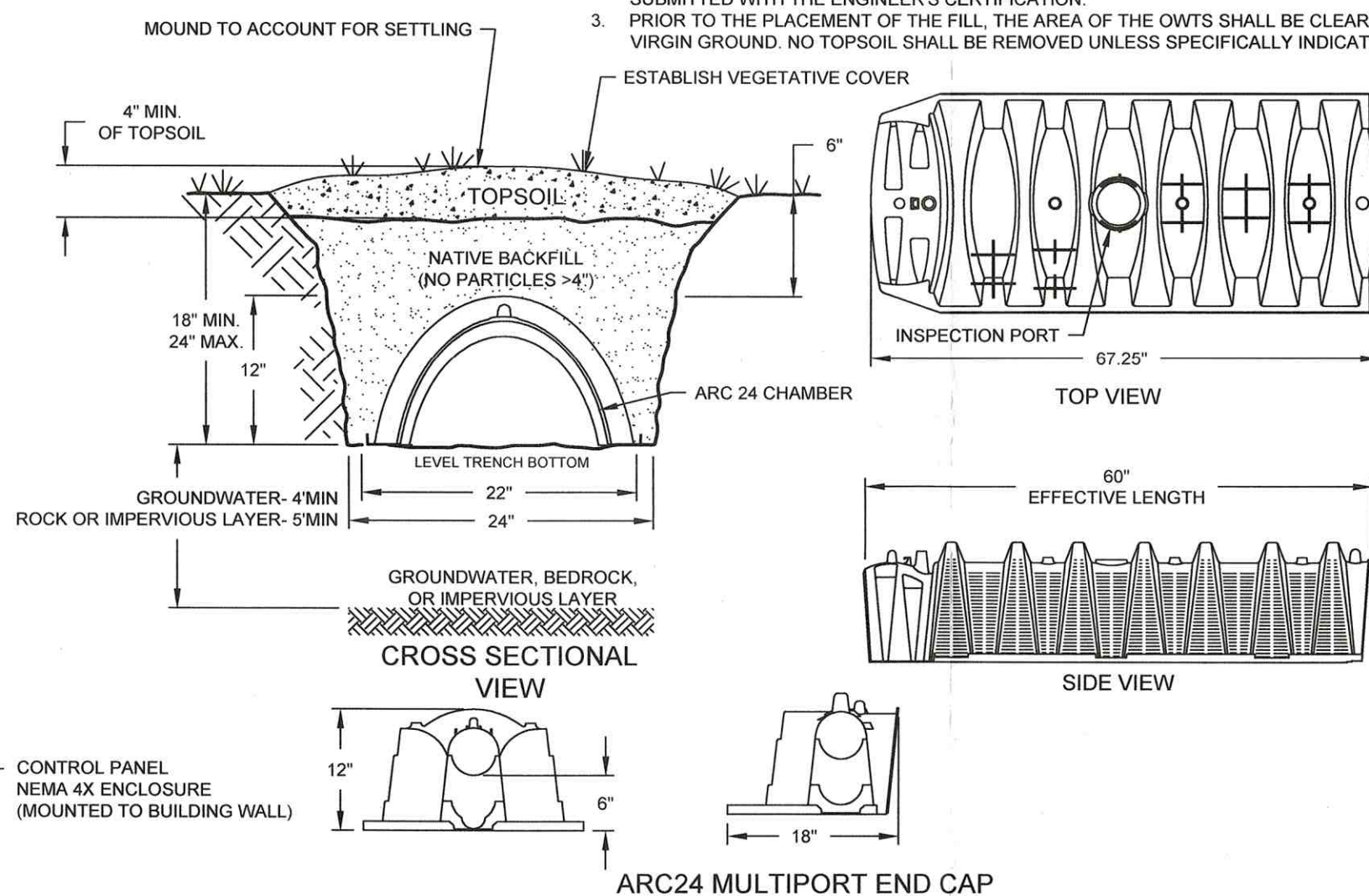
DCDOH NOTES FOR TYPE I CONVENTIONAL FILL SYSTEM.

N.T.S.

1. REPLACEMENT OWTS SHALL BE SUFFICIENTLY SEPARATED FROM THE PRIMARY OWTS SUCH THAT IMPERVIOUS FILL FROM THE PRIMARY OWTS DOES NOT INTERFERE WITH THE REPLACEMENT OWTS DESIGN.
2. FILL SHALL CONSIST OF SAND AND GRAVEL FILL WITH NO STONES > 4". THE SAND AND GRAVEL FILL MUST EXTEND 3 FEET BEYOND THE CENTER OF THE TRENCH. AFTER THE SAND AND GRAVEL FILL, THERE MUST BE 7 FEET OF ADDITIONAL SOIL, WITH THE FINAL 2 FEET BEING IMPERVIOUS SOIL WITH A ONE VERTICAL TO THREE HORIZONTAL SLOPE. THE TOE OF THE SLOPE SHALL EXTEND INTO THE VIRGIN SOIL 6 TO 12 INCHES DEEP AND 24 INCHES WIDE. TOPSOIL AND GRASS SEED SHALL BE APPLIED OVER THE FILL PER THE APPROVED PLAN.
3. THE PERCOLATION RATE OF THE SAND AND GRAVEL FILL SHALL BE EQUIVALENT TO OR LESS THAN THE PERCOLATION RATE OF THE NATURAL SOIL AND SHALL BE NO MORE THAN 15 MINUTES PER INCH STABILIZED RATE. THE DESIGN APPLICATION RATE SHALL BE BASED ON THE PERCOLATION RATE OF THE NATURAL SOIL. THE DESIGN APPLICATION RATE OF THE FILL SHALL BE USED WHERE THE PERCOLATION RATE OF THE FILL IS GREATER THAN THE PERCOLATION RATE OF THE NATURAL SOIL.
4. PRIOR TO THE PLACEMENT OF THE FILL, THE AREA OF THE OWTS SHALL BE CLEARED OF DEBRIS, AND ALL BRUSH, TREES, OR OTHER VEGETATION CUT TO THE LEVEL OF THE VIRGIN GROUND. NO TOPSOIL SHALL BE REMOVED UNLESS SPECIFICALLY INDICATED ON THE PLANS.
5. THE SAND AND GRAVEL FILL SHALL BE MECHANICALLY COMPACTED IN 6 INCH LAYERS IN A MANNER WHICH WILL ALLOW ADEQUATE PERCOLATION THROUGHOUT THE FILL, OR BE ALLOWED TO SETTLE AND STABILIZE FOR A PERIOD OF AT LEAST SIX MONTHS TO INCLUDE ONE FREEZE-THAW CYCLE.
6. FOR LOTS PROPOSED TO BE IMPROVED WITH FILL OTHER THAN SAND AND GRAVEL FILL, FILL SHALL BE A GRAVELLY LOAM (GRAVEL, SAND, SILT, AND CLAY MIXTURE). OWTS SHALL BE SIZED BASED ON THE PERCOLATION RATE OF THE FILL OR NATURAL SOIL, WHICHEVER IS GREATER, AND THE FILL SHALL BE ALLOWED TO SETTLE AND STABILIZE FOR A PERIOD OF AT LEAST SIX MONTHS TO INCLUDE ONE FREEZE-THAW CYCLE.
7. DEEP TESTS AND PERCOLATION TESTS SHALL BE REQUIRED IN THE FILL AFTER SETTLING AND STABILIZATION, (OR COMPACTION, IF SAND AND GRAVEL IS USED).
8. THE FILL INCLUDING LOCATION, MATERIAL AND DIMENSION, MUST BE IN PLACE AND CERTIFIED TO DC EHS BY A DESIGN PROFESSIONAL AS BEING SUITABLE FOR THE INSTALLATION OF THE OWTS. THE DESIGN PROFESSIONAL SHALL CERTIFY IN WRITING THAT THE FILL MATERIAL IS IN PROPER LOCATION, OF THE PROPER QUANTITY AND DIMENSIONS, AND OF PROPER QUALITY. PROPER QUALITY MUST BE DEMONSTRATED BY STABILIZED PERCOLATION TESTS, THE RESULT OF WHICH SHALL BE SUBMITTED WITH THE ENGINEER'S CERTIFICATION.

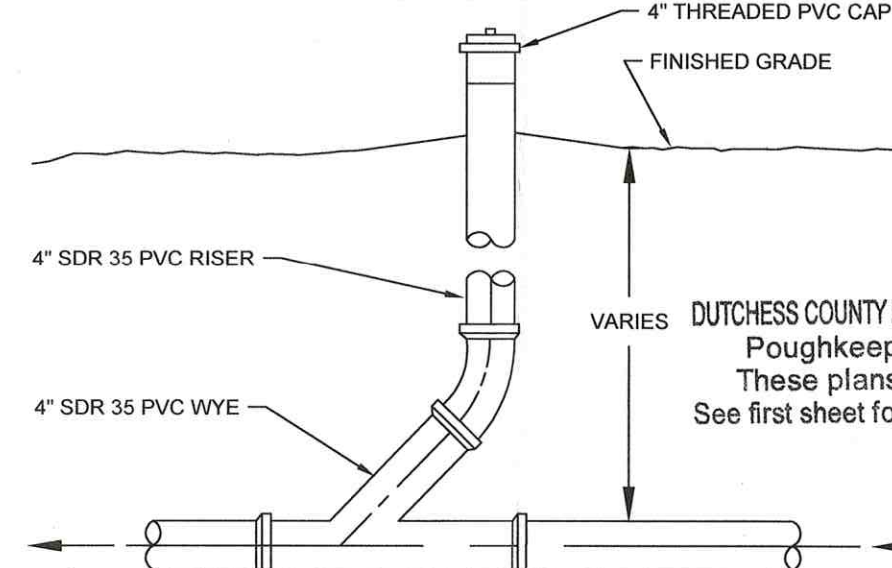
DCDOH ADDITIONAL NOTES FOR FILL SECTIONS:

1. SEPTIC FILL SPECIFICATION: SAND AND GRAVEL FILL, WITH A STABILIZED PERCOLATION RATE WHICH IS LESS THAN OR EQUIVALENT TO THE PERCOLATION RATE OF THE VIRGIN SOIL, AND NO MORE THAN 15 MINUTES PER INCH SHALL BE USED.
2. A NEW YORK STATE REGISTERED DESIGN PROFESSIONAL SHALL CERTIFY IN WRITING THAT THE FILL MATERIAL IS IN THE PROPER LOCATION, OF THE PROPER QUANTITY AND DIMENSIONS, AND OF PROPER QUALITY. PROPER QUALITY MUST BE DEMONSTRATED BY STABILIZED PERCOLATION TESTS, THE RESULTS OF WHICH SHALL BE SUBMITTED WITH THE ENGINEER'S CERTIFICATION.
3. PRIOR TO THE PLACEMENT OF THE FILL, THE AREA OF THE OWTS SHALL BE CLEARED OF DEBRIS, AND ALL BRUSH, TREES, OR OTHER VEGETATION CUT TO THE LEVEL OF VIRGIN GROUND. NO TOPSOIL SHALL BE REMOVED UNLESS SPECIFICALLY INDICATED ON THE PLANS.



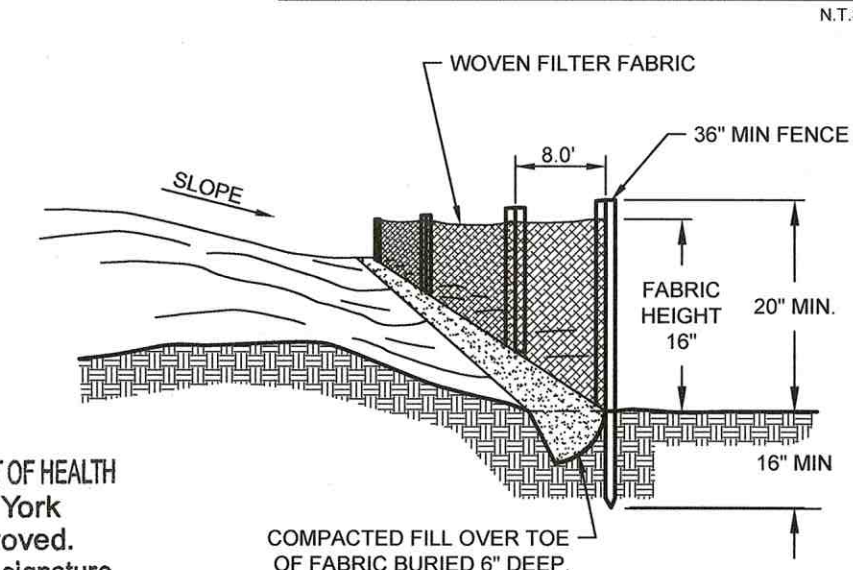
GRAVELLESS ABSORPTION TRENCH DETAIL

- NOTES:
1. TO RECEIVE 25% TRENCH LENGTH REDUCTION, GRAVELLESS CHAMBERS SHALL BE ARC 24 BY ADVANCED DRAINAGE SYSTEMS OR OTHER APPROVED EQUAL AS LISTED BY THE NYSDOH AND APPROVED BY THE LOCAL COUNTY DEPARTMENT OF HEALTH (QUICKS EQUALIZER 36 IS AN APPROVED EQUAL UPON MANUFACTURER).
 2. EXACT CHAMBER DIMENSIONS AND CONFIGURATION MAY VARY DEPENDING UPON MANUFACTURER.
 3. THE SYSTEM SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
 4. NATIVE SOIL USED FOR SIDEWALL BACKFILL SHALL BE ON SITE NATIVE MATERIAL FREE OF DEBRIS AND STONES. NO HEAVY CLAY OR SILT SHALL BE INCLUDED. COARSE SAND OR FINE GRAVEL MAY ALSO BE USED WHEN THE ON SITE SOIL IS UNSUITABLE FOR BACKFILL.



TYPICAL PIPE CLEANOUT DETAIL

BUILDING SEWER LINE TRENCH DETAIL



TYPICAL SILT FENCE DETAIL

- NOTES:
1. LOCATE POSTS DOWNSIDE OF FABRIC TO HELP SUPPORT FENCING.
 2. BURY TOE OF FENCE APPROXIMATELY 6" DEEP TO PREVENT UNDERCUTTING.
 3. WHEN JOINTS ARE NECESSARY, SECURELY FASTEN THE FABRIC AT A SUPPORT POST WITH OVERLAP TO THE NEXT POST.

DATE	REVISION
8/28/2024	REVISED AS PER DCDOH COMMENTS
1/9/2025	REVISED AS PER DCDOH COMMENTS
3/3/2025	REVISED AS PER DCDOH COMMENTS

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LANDS OF FILA

TOWN OF DOVER

DUTCHESS COUNTY, NY

ACCESSORY APARTMENT SDS DETAILS

DATE	SCALE	DESIGNED BY	DRAWN BY	CHECKED BY	JOB NO.	SHEET NO.
6/1/2023	NTS	RED	RED	RAR	14-028	2 of 2