

ZONING SUMMARY - COMMERCIAL - WHATELY MASSACHUSETTS

REGULATION REQUIREMENTS	TOWN REGULATIONS	REQUIRED	PROPOSED
LOT AREA	40,000 SQ FT	60,000 SQ FT	72,963 SQ FT
LOT FRONTAGE	175 FT	200 FT	426.78 FT
FRONT SETBACK	50 FT	50 FT	60 FT
SIDE SETBACK	20 FT	20 FT	29.3 FT
REAR SETBACK	20 FT	20 FT	57.1 FT
IMPERVIOUS AREA	----	<50% OF SITE	28.2% (20,580 SQ FT)
GREEN / OPEN SPACE	----	>50% OF SITE	71.8% (52,383 SQ FT)
BUILDING COVERAGE	----	<30% OF SITE	6.7% (4,896 SQ FT)
TOTAL DISTURBED AREA	<43,560 SQ FT	<43,560 SQ FT	~33,000 SQ FT (MAX)
DRIVEWAY AISLE WIDTH	12 FT (MIN)	12 FT (MIN)	12 FT
PARKING SPACES	8 SPACES	8 SPACES	8 SPACES
ADA PARKING SPACES	1 SPACE	1 SPACE	1 SPACE
PARKING SPACE SIZE	8.5' X 18'	9' X 18'	9' X 18'
LANDSCAPING	TBD	TBD	TBD

(THE ENTIRETY OF THE SITE CAN BE CLASSIFIED AS "UPLAND" FROM THE NEIGHBORING WETLANDS)

GENERAL NOTES

THE DEVELOPER/CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY LOCAL AND STATE APPROVALS AND/OR PERMITS PRIOR TO THE BEGINNING OF ANY SITE IMPROVEMENTS. THE DEVELOPER/CONTRACTOR SHALL CONFORM TO ALL REQUIREMENTS OF THE LOCAL AND STATE AGENCIES.

THE LOCATION OF ALL UTILITIES SHOWN HEREON IS BASED ON THE BEST AVAILABLE DATA. THE LOCATIONS ARE APPROXIMATE AND ALL UTILITIES MAY NOT BE SHOWN. PRIOR TO BEGINNING ANY CONSTRUCTION THE DEVELOPER/CONTRACTOR WILL BE RESPONSIBLE FOR CONTACTING "DIG SAFE" AT 1-888-344-7233 AND HAVE ALL UTILITIES MARKED ON THE GROUND. ALL LINES AND POINTS ARE PERPENDICULAR OR PARALLEL TO LINES FROM WHICH THEY ARE MEASURED UNLESS OTHERWISE NOTED. ALL DIMENSIONING ARE TAKEN TO BACK OF CURB FOR DRIVE ISLES & PARKING AREAS.

THE SITE CONTRACTOR SHALL COORDINATE ELECTRIC, TELEPHONE AND CABLE SERVICES WITH THE LOCAL UTILITY COMPANIES AND THE BUILDING CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ALL UNDERGROUND UTILITIES TO THE CONNECTION POINT AT THE FRONT OF THE BUILDING FOR EACH STRUCTURE.

LIGHT LOCATIONS SHOWN ON LAYOUT PLAN ARE FOR REFERENCE PURPOSES ONLY. A LIGHTING PLAN SHALL BE DONE BY A LICENSED ELECTRICIAN OR QUALIFIED PROFESSIONAL LIGHT POSTS SHOULD BE COORDINATED BY CONTRACTOR BASED OFF PHOTOMETRIC PLANS.

ALL DIMENSIONING WITHIN THE DRIVEWAYS AND CURBED AISLES ILLUSTRATE THE WIDTH OF THE TRAVELED WAY FROM THE TOE OF THE CURB TO THE TOE OF THE CURB. NO DIMENSIONING ON THE SITE PLANS ARE INTENDED TO ILLUSTRATE THE BACK OF THE CURB DIMENSIONING. THE CONTRACTOR SHALL VERIFY ALL LAYOUT, DIMENSIONS, GRADES AND REPORT ANY AND ALL DISCREPANCIES TO THE ENGINEER.

ALL AREAS DISTURBED BY CONTRACTOR SHALL BE LOAMED AND SEEDED UNLESS OTHERWISE NOTE. ALL NEW SURFACE TO MEET EXISTING SURFACES WITH SMOOTH AND CONTINUOUS LINE AND GRADE

TO THE EDGE OF THE ROADWAY, AS APPLICABLE, THE SUBGRADE COMPACTED TO A MINIMUM 95% OF MAXIMUM DRY DENSITY, AND THE PAVEMENT REPLACED IN MULTIPLE COURSES TO MATCH THE EXISTING DEPTH OF PAVEMENT (4-INCHES MIN.) WITH A MAXIMUM COURSE THICKNESS OF 2-INCHES. ALL DISTURBED SUBGRADE AREAS ARE TO BE RECONSTRUCTED WITH A MINIMUM OF 12-INCHES OF PROCESSED GRAVEL COMPACTED IN 2 EQUAL LIFTS. AFTER COMPACTION, ALL SEAMS BETWEEN NEW AND EXISTING PAVEMENT ARE TO BE SEALED WITH A 4-INCH MINIMUM WIDTH ELASTIC, RUBBERIZED ASPHALTIC MEMBRANE TAPE.

ALL SAW CUT PAVEMENT SHALL BE JOINTED AND SEALED. ALL AREAS WHERE THE EXISTING ROADWAY PAVEMENT WILL BE DISTURBED, SUCH AS AT THE NEW DRIVEWAY ENTRANCES, AND AT ANY STRUCTURE MODIFICATIONS, THE PAVEMENT IS TO BE SAWCUT TO ITS FULL DEPTH BACK A MINIMUM OF 1-FOOT BEYOND THE EDGE OF DISTURBANCE, PARALLEL OR PERPENDICULAR

THE SITE HAS BEEN CONFIGURED FOR A WB-50 VEHICLE CONFIGURATION AND CAN SUCCESSFULLY BE NAVIGATED BY LAYING OUT THE PROPER TURNING RADIUS' ON SITE

JD ROSS - JDR BUILDERS

PROPOSED COMMERCIAL BUILDING

EGYPT ROAD
WHATELY MASSACHUSETTS

SIERUTA ENGINEERING

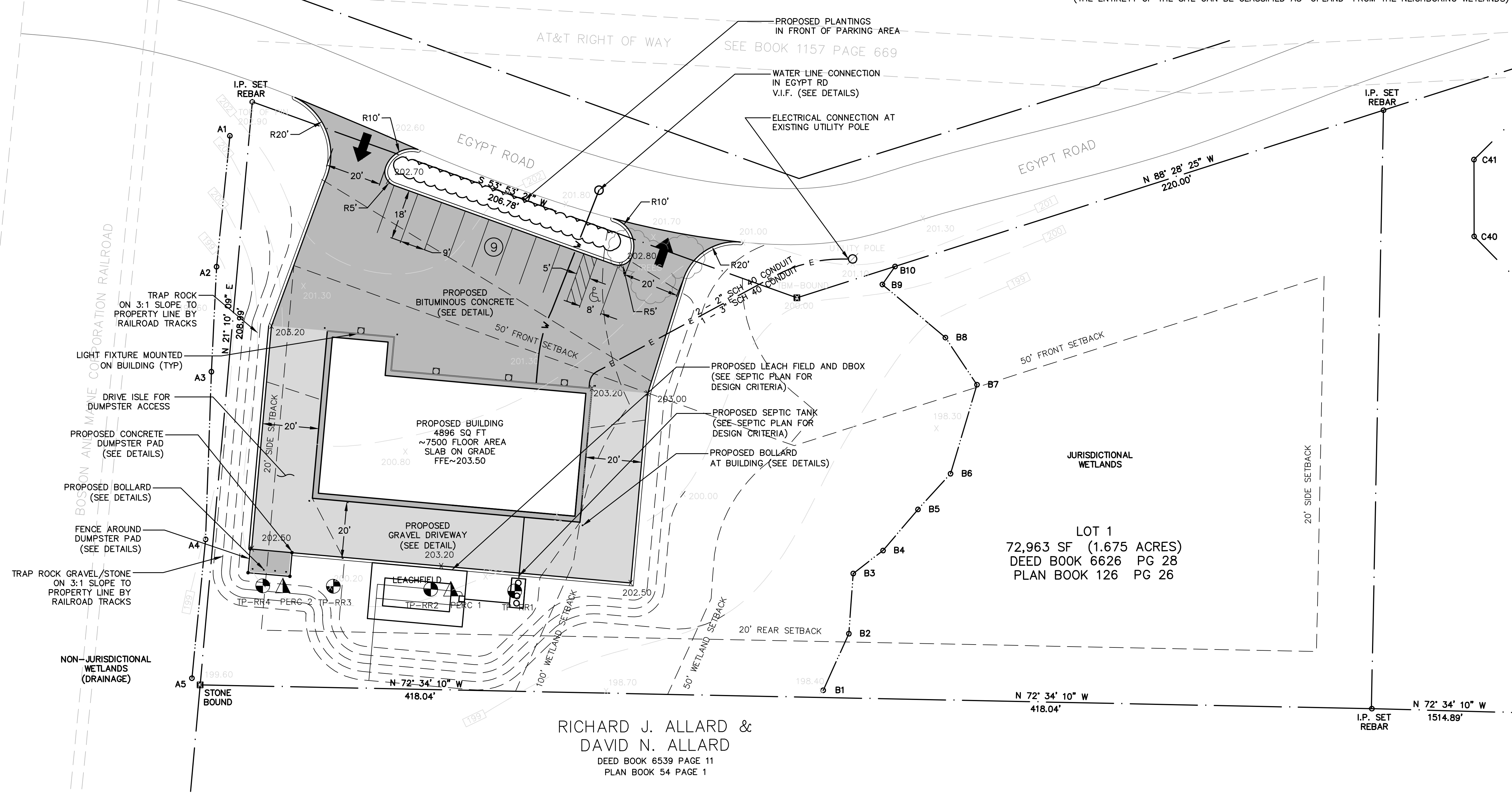
REGISTERED CIVIL AND ENVIRONMENTAL ENGINEERS
18 DEPOT ROAD
LEVERETT MA 01054
413-548-6658 413-549-1817 413-627-7244
PREPARED BY: JONATHAN SIERUTA E.I.T.
APPROVED BY: WILLIAM J. SIERUTA P.E.
SIERUTAENGINEERING@YAHOO.COM

PROJECT: JDR BUILDERS EGYPT RD

DATE: APRIL 23, 2023

SCALE: 1"=20'

U1.0



RICHARD J. ALLARD &
DAVID N. ALLARD
DEED BOOK 6539 PAGE 11
PLAN BOOK 54 PAGE 1

PERCOLATION TEST INFORMATION

TEST PIT RR-1		TEST PIT RR-2	
TOP SOIL	A	TOP SOIL	A
SINGLE GRAIN FRIABLE	10YR 2/2 FINE SAND	SINGLE GRAIN FRIABLE	10YR 2/2 FINE SAND
11	0-11	11	0-11
SANDY SUBSOIL	Bw	SANDY SUBSOIL	Bw
7.5YR 4/6 FINE SAND	NO STONE	7.5YR 4/6 FINE SAND	NO STONE
17	11-28	14	11-25
SINGLE GRAIN FRIABLE	C1	SINGLE GRAIN FRIABLE	C1
56	28-84	61	25-86
FINE SAND	10YR 5/4 FINE SAND	FINE SAND	10YR 5/4 FINE SAND
SINGLE GRAIN FRIABLE	SINGLE GRAIN FRIABLE	SINGLE GRAIN FRIABLE	SINGLE GRAIN FRIABLE
NO GRAVEL NO COBBLES AND STONES		NO GRAVEL NO COBBLES AND STONES	
H20 - 48" WEeping - 48" MOTTLING 2.5Y 2.5/2 @ 45" EHW T @ 45"		H20 - 45" WEeping - 45" MOTTLING 2.5Y 2.5/2 @ 42" EHW T @ 42"	

PERCOLATION TEST INFORMATION

TEST PIT RR-3		TEST PIT RR-4	
TOP SOIL	A	TOP SOIL	A
SINGLE GRAIN FRIABLE	10YR 2/2 FINE SAND	SINGLE GRAIN FRIABLE	10YR 2/2 FINE SAND
11	0-11	11	0-11
SANDY SUBSOIL	Bw	SANDY SUBSOIL	Bw
7.5YR 4/6 FINE SAND	NO STONE	7.5YR 4/6 FINE SAND	NO STONE
17	11-28	14	11-25
SINGLE GRAIN FRIABLE	C1	SINGLE GRAIN FRIABLE	C1
60	28-88	59	25-84
FINE SAND	10YR 5/4 FINE SAND	FINE SAND	10YR 5/4 FINE SAND
SINGLE GRAIN FRIABLE	SINGLE GRAIN FRIABLE	SINGLE GRAIN FRIABLE	SINGLE GRAIN FRIABLE
NO GRAVEL NO COBBLES AND STONES		NO GRAVEL NO COBBLES AND STONES	
H20 - 40" WEeping - 40" MOTTLING 2.5Y 2.5/2 @ 37" EHW T @ 37"		H20 - 40" WEeping - 40" MOTTLING 2.5Y 2.5/2 @ 36" EHW T @ 36"	

LATITUDE/LONGITUDE - 42°25'07"/72°37'06" - SOIL SURVEY - NRCS CUSTOM SOILS REPORT FOR EGYPT RD BY SIERUTA ENGINEERING

DATE: 08/17/2015
ENGINEER: DOUGLAS MACLEAY
WITNESS: VALERIE BIRD BOH

PERMEABILITY TEST 1 (08/17/2015)
PERC 1 @ RR-2 DEPTH - 30"
ACTUAL RATE - >2.00 MIN/IN
DESIGN RATE - 5.00 MIN/IN
60" SEPARATION REQUIRED - PER 310 CMR 15.212 (CLASS I SOIL)

DESIGN INFORMATION

ALL CONSTRUCTION TO BE IN ACCORDANCE WITH 310 CMR 15.0 TITLE 5 AND ALL OTHER LOCAL BOARD OF HEALTH REGULATIONS

FINISH GRADING TO BE AS SHOWN ON PLANVIEW. ALL DISTURBED AREAS TO BE LOAMED AND SEEDED

DESIGN CRITERIA

USE: PROPOSED COMMERCIAL BUILDING W/ 4 UNITS - 2 TENANTS/OCCUPANTS/UNIT
SLAB ON GRADE NO GARBAGE DISPOSAL UNIT

DESIGN FLOW: SHALL BE DETERMINED PER 310 CMR 15.223
REQUIRED: 20 GALLONS PER OCCUPANT = 8 OCC. X 20 GAL = 160 GAL/DAY
NO DISPOSAL UNIT NO BASEMENT

SEPTIC TANK: SHALL BE DETERMINED PER 310 CMR 15.223
160 GALLONS / DAY X 200% = 320 GALLONS / DAY

MINIMUM TANK SIZE PERMITTED PER 310 CMR 15.223 = 1500 GALLONS
USE A TWO COMPARTMENT (2000 GALLON PRECAST CONCRETE TANK)
DIMENSIONS (L x W x H) = 12'-2" x 5' x 6' - 48" FLOW LINE
FROM BASE TO INLET INVERT IS 56" ON A TYPICAL TWO COMPARTMENT TANK
SECOND COMPARTMENT TO ACT AS PUMP CHAMBER (500 GALLONS)

LEACHING SYSTEM: DUE TO SOIL CONDITIONS A LEACH FIELD DESIGN IS TO BE USED PER 310 CMR 15.252

EFFECTIVE DEPTH - 6"
EFFECTIVE WIDTH - 10"
EFFECTIVE LENGTH - 24"
BOTTOM AREA = 240 FT²

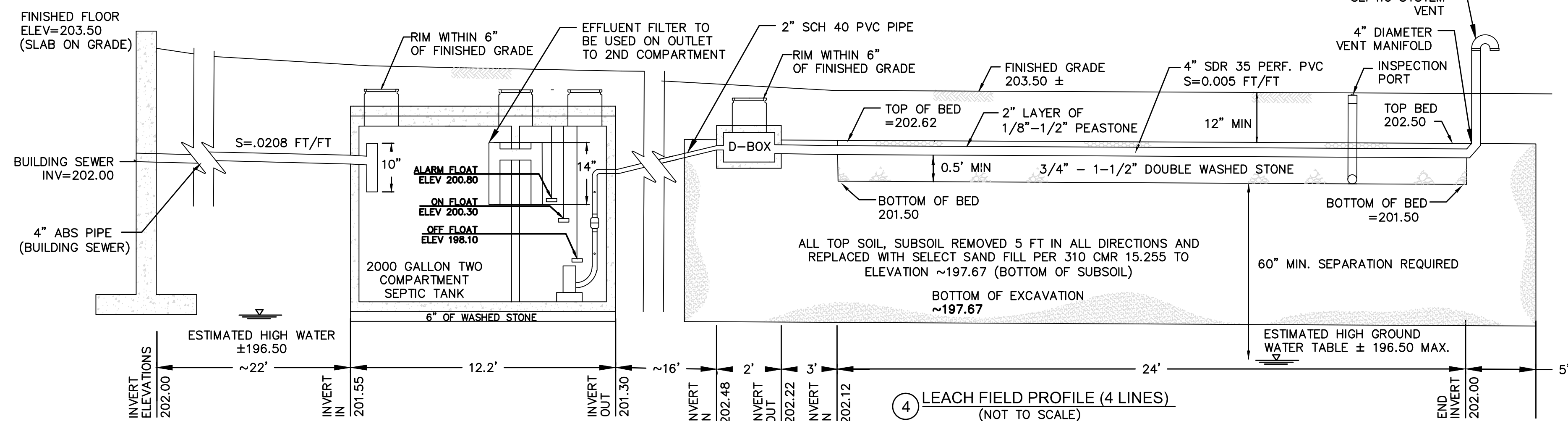
PERMEABILITY TEST 1
PERC 1 @ TP1-1 PERC 2 @ TP1-2
ACTUAL RATE - >2.00 MIN/IN
DESIGN RATE - 5.00 MIN/IN
BOTTOM AND SIDEWALL AREA = 0.74 GAL/FT²
60" SEPARATION REQUIRED PER 310 CMR 15.212 AND LEVERETT CODE REGULATIONS

CLASS I SOIL - SAND
USE LEACH FIELD DESIGN WITH 5' SEPARATION BETWEEN

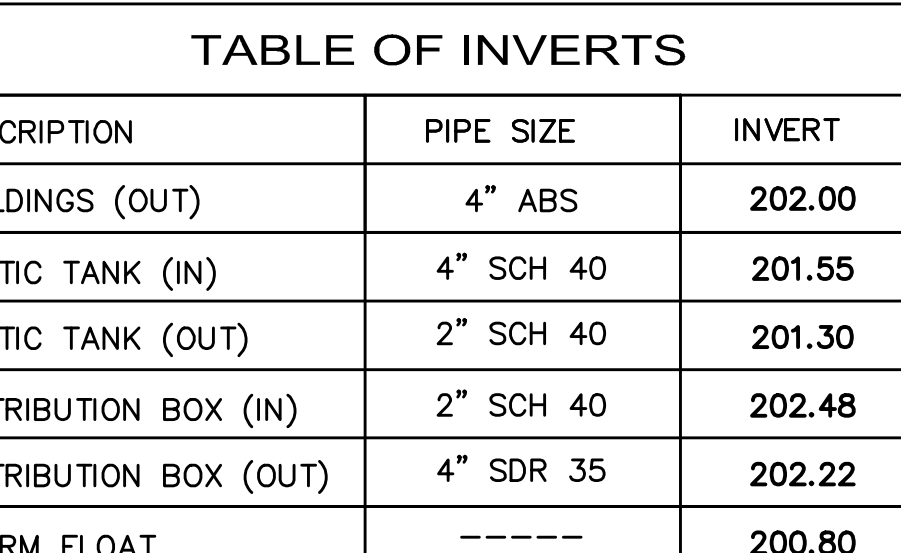
TOTAL PERMEABILITY = 0.74 (10' x 24') = 176 GALLONS / DAY
TBM SET @ TOP OF BOUND (CENTER OF LOT) ELEVATION 200.00

SEPTIC SYSTEM PLAN VIEW
1" = 20'

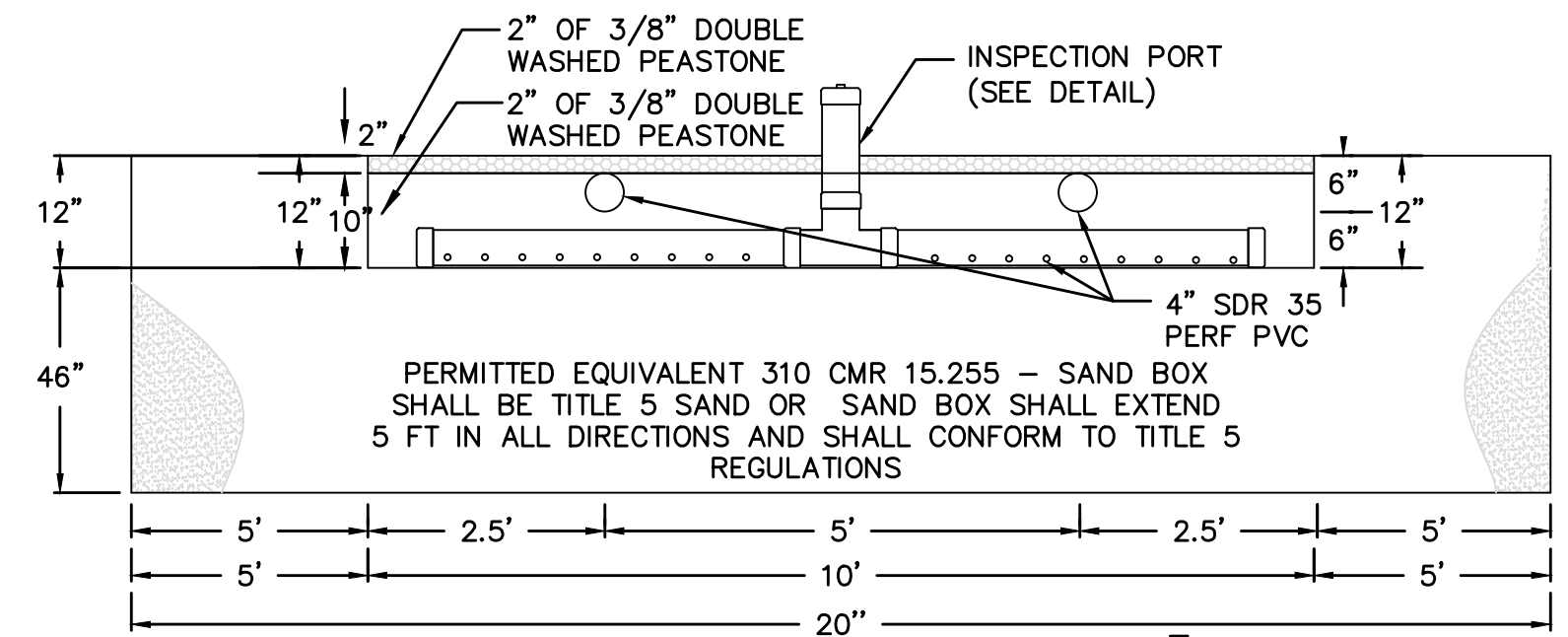
TABLE OF INVERTS		
DESCRIPTION	PIPE SIZE	INVERT
BUILDINGS (OUT)	4" ABS	202.00
SEPTIC TANK (IN)	4" SCH 40	201.55
SEPTIC TANK (OUT)	2" SCH 40	201.30
DISTRIBUTION BOX (IN)	2" SCH 40	202.48
DISTRIBUTION BOX (OUT)	4" SDR 35	202.22
ALARM FLOAT	-----	200.80
ON FLOAT	-----	200.30
OFF FLOAT	-----	198.10



④ LEACH FIELD PROFILE (4 LINES) (NOT TO SCALE)



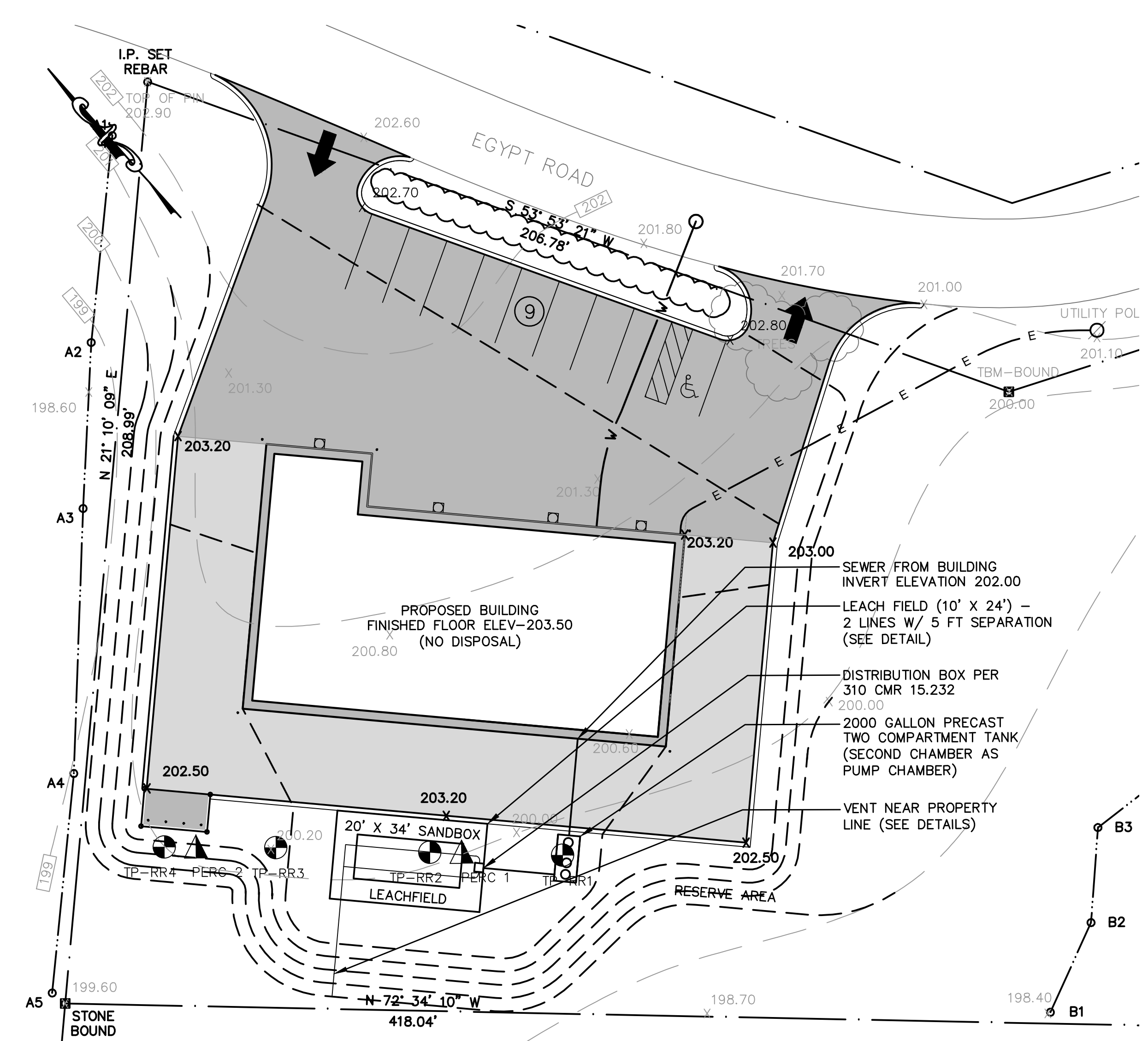
② INSPECTION PORT DETAIL (NOT TO SCALE)



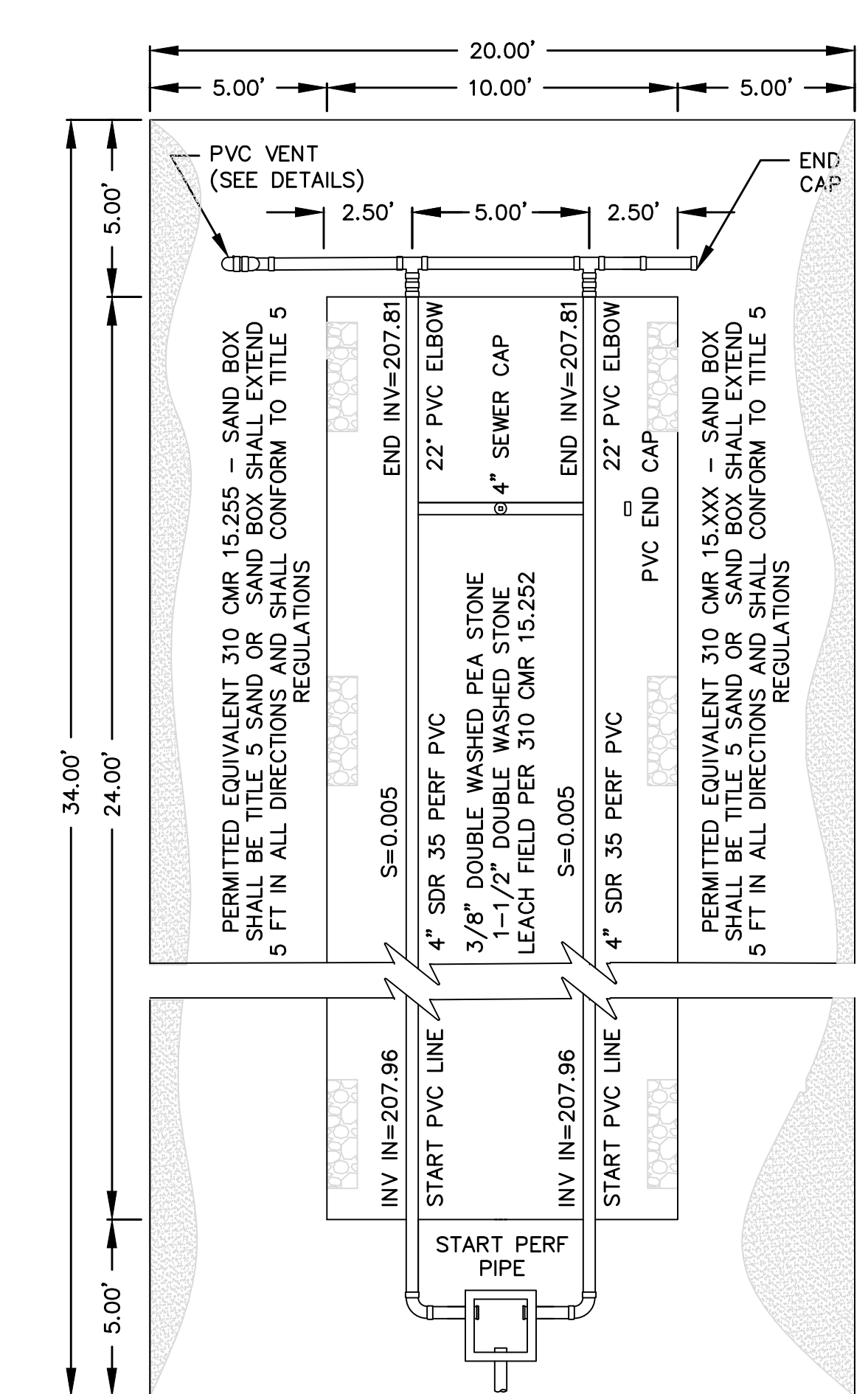
③ LEACH FIELD DETAIL (4 LINES) (NOT TO SCALE)

① LEACH FIELD PROFILE VIEW (4 LINES) (NOT TO SCALE)

- NOTES:
- BED AND FILL SHALL CONFORM TO TITLE 5 REQUIREMENTS
 - BED BOTTOM SHALL BE SET AT SAME ELEVATION THROUGHOUT.
 - 5 FT SAND BOX IN ALL DIRECTIONS
 - FIRST 2 FT OF ALL LINES LEVEL AT 208.06
 - DISTRIBUTION BOX PER 15.232



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GENERAL NOTES

SEPTIC TANK TO HAVE INLET AND OUTLET TEES IN ACCORDANCE WITH 310 CMR 15.227 SECTIONS

SEPTIC TANK AND DISTRIBUTION BOX TO BE SET LEVEL ON 6" DEEP FOUNDATION PAD OF WASHED STONE

ALL STONE TO DOUBLE WASHED STONE FREE OF ALL SILT AND FINES PER 310 CMR 15.247

ALL PIPE JOINTS WITH TANK AND DISTRIBUTION BOX TO BE ASPHALT ROPE SEALED OR SILICON CAULKING SEALED

ALL COMPONENTS OF SYSTEM TO BE MARKED WITH METALLIC TAPE AND STEEL PLATES

AN INSPECTION PORT TO BE INSTALLED IN EACH TRENCH AS SHOWN ON PLANVIEW

EFFLUENT FILTERS SHALL BE INSTALLED IN THE SEPTIC TANK IN THE OUTLET TEE TO CHAMBER

SOIL ABSORPTION SYSTEM SHALL BE VENTED AND SHALL BE MANIFOLDED ON THE END OF THE LEACH TRENCHES AS SHOWN ON PLAN

ALL CONSTRUCTION TO BE IN ACCORDANCE WITH 310 CMR 15.0 (TITLE V) S AND ALL OTHER LOCAL BOARD OF HEALTH REGULATIONS

FINISH GRADING TO BE AS SHOWN ON PLANVIEW. ALL DISTURBED AREAS TO BE LOAMED AND SEEDED

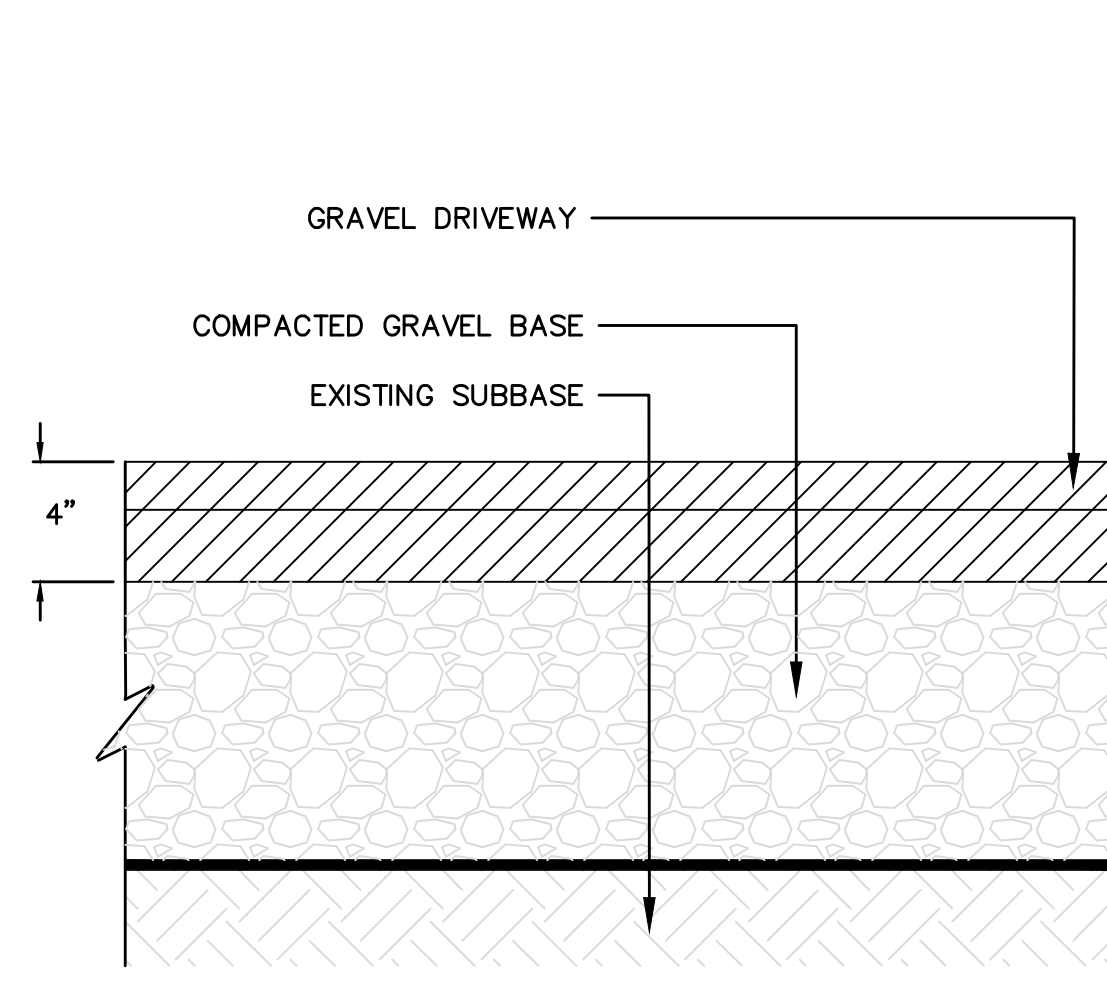
ALARM CONTROLS TO BE ON SEPARATE CIRCUITS AND SET TO SOUND WHEN THE LIQUID LEVEL REACHES ABOVE THE SHOWN ELEVATIONS ON PLANS. THIS IS TRUE FOR ALL CONTROLS AND FLOATS FOR ALL PUMP CHAMBERS ON SITE.

INSPECT AND MAINTAIN COMPONENTS AS RECOMMENDED BY THE MANUFACTURER AND REQ'D BY 310 CMR 15.254(2)D PUMP SLUDGE FROM THE BOTTOM OF THE PUMP CHAMBER AT LEAST ONCE PER 3 YEARS OR WHEN PUMPING OCCURS

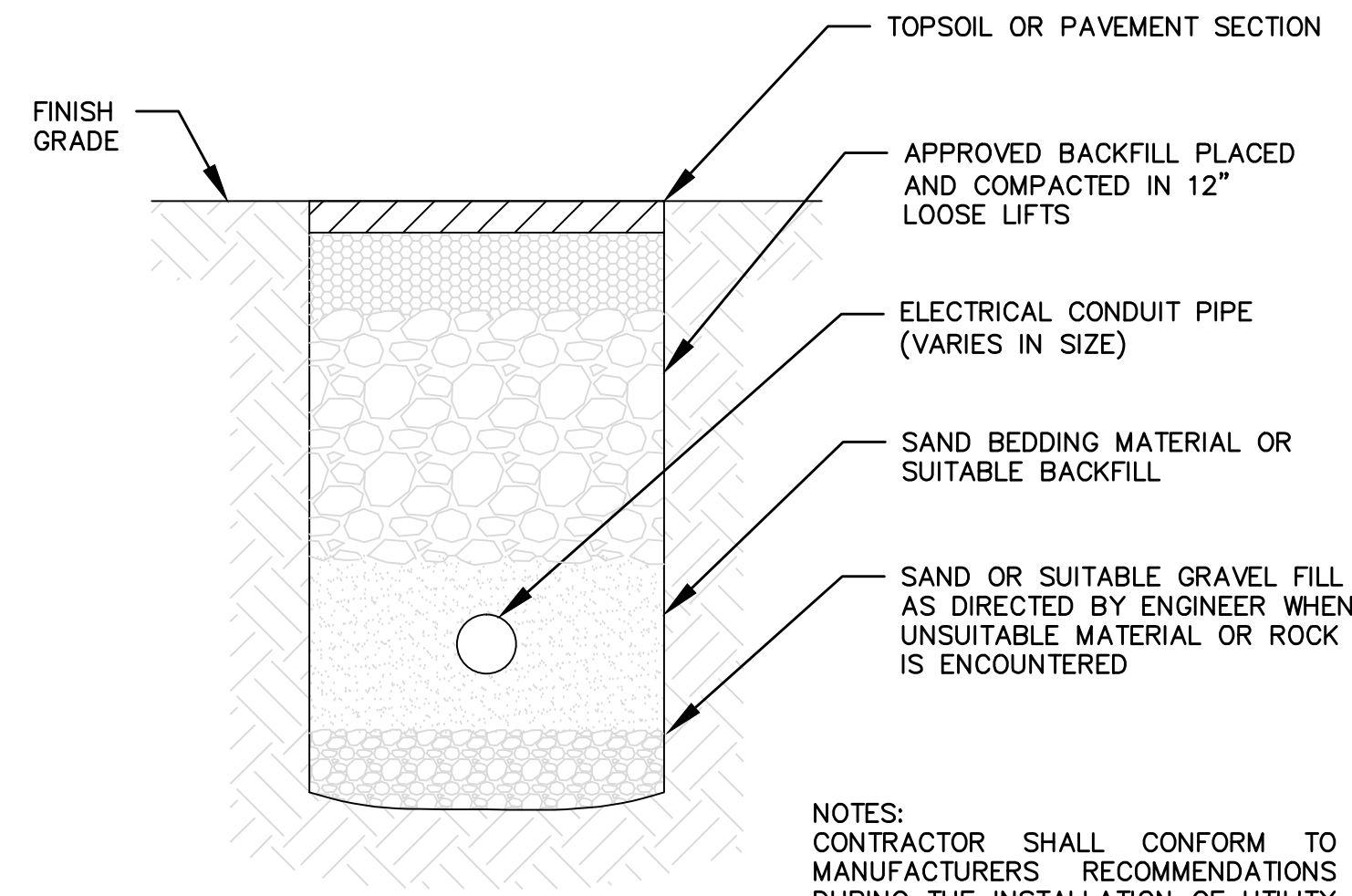
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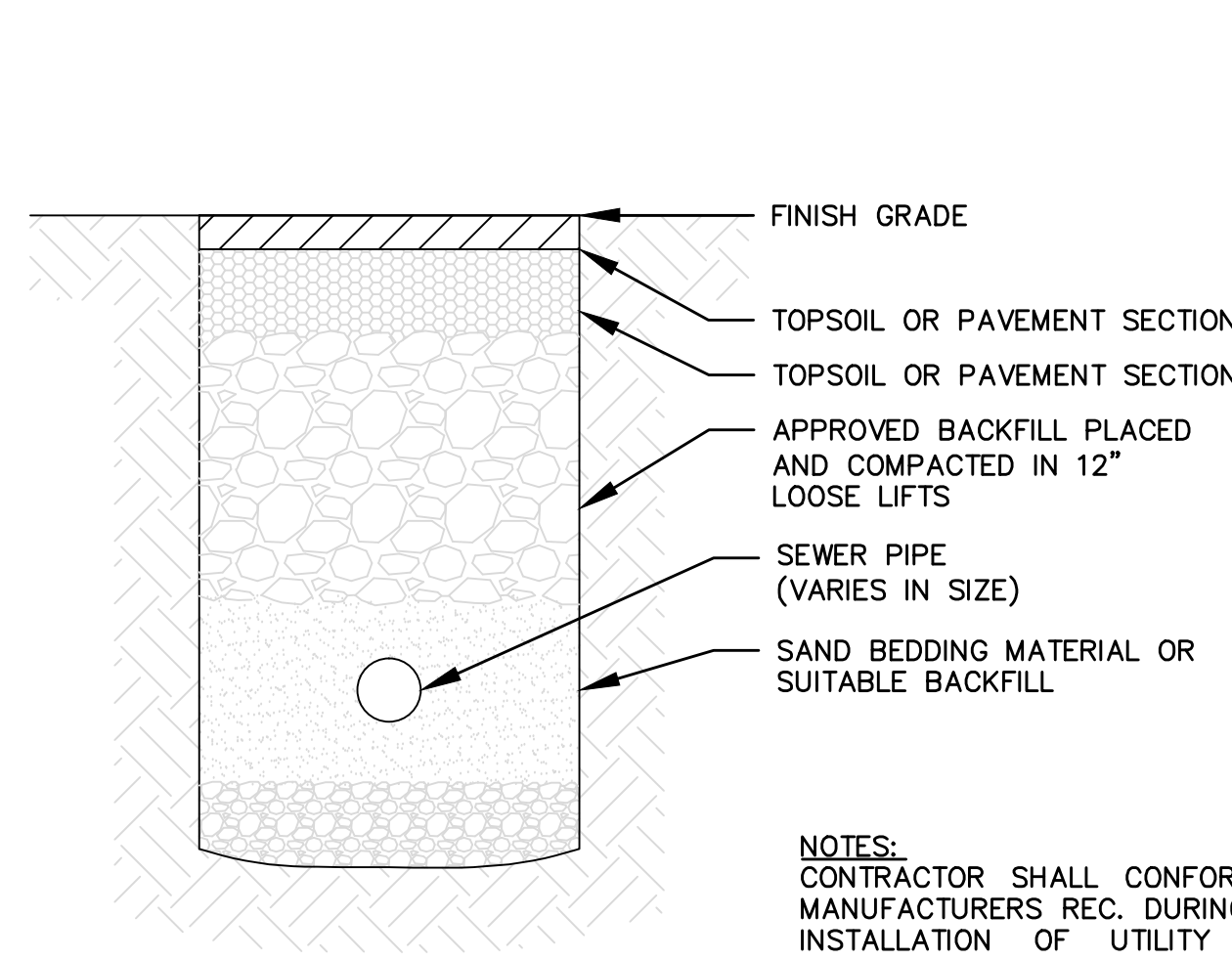
PROJECT: JDR BUILDERS EGYPT RD
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SHEET: U2.0



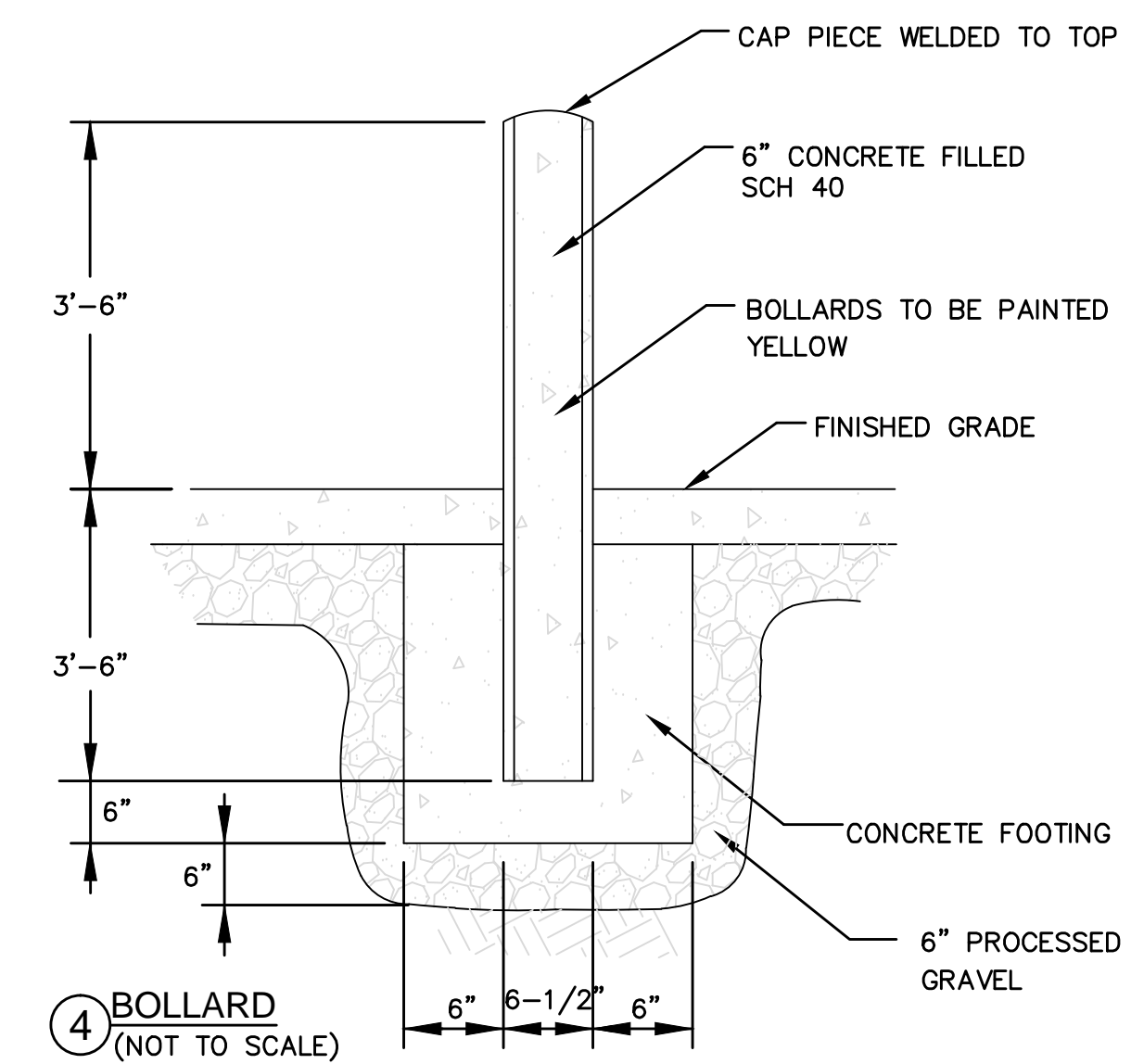
1 GRAVEL DRIVEWAY DETAIL (REAR OF BUILDING)
(NOT TO SCALE)



2 ELECTRICAL TRENCH DETAIL
(NOT TO SCALE)



3 SEWER LINE TRENCH DETAIL
(NOT TO SCALE)



4 BOLLARD
(NOT TO SCALE)

NOTES:
CONTRACTOR SHALL CONFORM TO MANUFACTURERS RECOMMENDATIONS DURING THE INSTALLATION OF UTILITY PIPE. DETAIL SHOW FOR ILLUSTRATIVE PURPOSES ONLY. INSTALLATION OF ELECTRICAL LINES SHALL BE COORDINATED WITH THE LOCAL UTILITY COMPANY.

NOTES:
CONTRACTOR SHALL CONFORM TO MANUFACTURERS REC. DURING THE INSTALLATION OF UTILITY PIPE. DETAIL SHOW FOR ILLUSTRATIVE PURPOSES ONLY. INSTALLATION OF WATER MAINS SHALL BE COORDINATED WITH THE CITY OF HOLYOKE, MA WATER AND SEWER COMMISSION.

GENERAL NOTES

THESE PLANS AND SPECIFICATIONS ARE INTENDED TO BE EXPLANATORY OF THE WORK TO BE DONE AND OF EACH OTHER, BUT SHOULD ANY OMISSIONS, ERRORS OR DISCREPANCIES APPEAR THEY SHALL BE SUBJECT TO CORRECTION AND INTERPRETATION BY THE DESIGN ENGINEER.

ALL CONSTRUCTION AND CONSTRUCTION ACTIVITIES SHALL CONFORM TO STATE AND LOCAL REQUIREMENTS. INCLUDING BUT NOT LIMITED TO THE TOWN OF WHATELY FRANKLIN COUNTY, COMMONWEALTH OF MASSACHUSETTS AND OSHA.

ALTERNATIVE MANUFACTURERS FOR MATERIALS SHOWN ON THESE PLANS MAY BE USED ONLY UPON WRITTEN APPROVAL BY THE DESIGN ENGINEER. ALTERNATE MANUFACTURERS WILL NOT BE APPROVED IF THE USE OF THEIR EQUIPMENT REQUIRES DESIGN CHANGES.

IF ANY PART OF THIS DESIGN IS TO BE ALTERED IN ANY WAY, THE DESIGN ENGINEER AND THE APPROVING AGENCIES SHALL BE NOTIFIED IN WRITING AND THEIR APPROVAL OBTAINED PRIOR TO CONSTRUCTION.

NO RAINWATER LEADER OR ANY DRAIN OTHER THAN SANITARY SEWER LINES SHALL DISCHARGE OR BE CONNECTED TO THE SANITARY SYSTEM. NO INDUSTRIAL WASTE SHALL BE DISCHARGED INTO THE SANITARY SYSTEM.

THE INSTALLER SHALL CONTACT THE WHATELY BOARD OF HEALTH PRIOR TO THE START OF CONSTRUCTION AND CONFORM TO ALL INSPECTION REQUIREMENTS OF THE WHATELY BOARD OF HEALTH BEFORE, DURING AND AFTER CONSTRUCTION.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SEE THAT ALL PERMITS AND APPROVALS ARE OBTAINED. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL SAFETY CODES IN THE CONSTRUCTION OF THIS SUBSURFACE SEWAGE DISPOSAL SYSTEM

8. THE LOCATION OF EXISTING UTILITIES IS APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. NOTIFY "DIG-SAFE" AT 1-888-344-7233 AT LEAST 72 HOURS PRIOR TO ANY SITE DEMOLITION OR EXCAVATION.

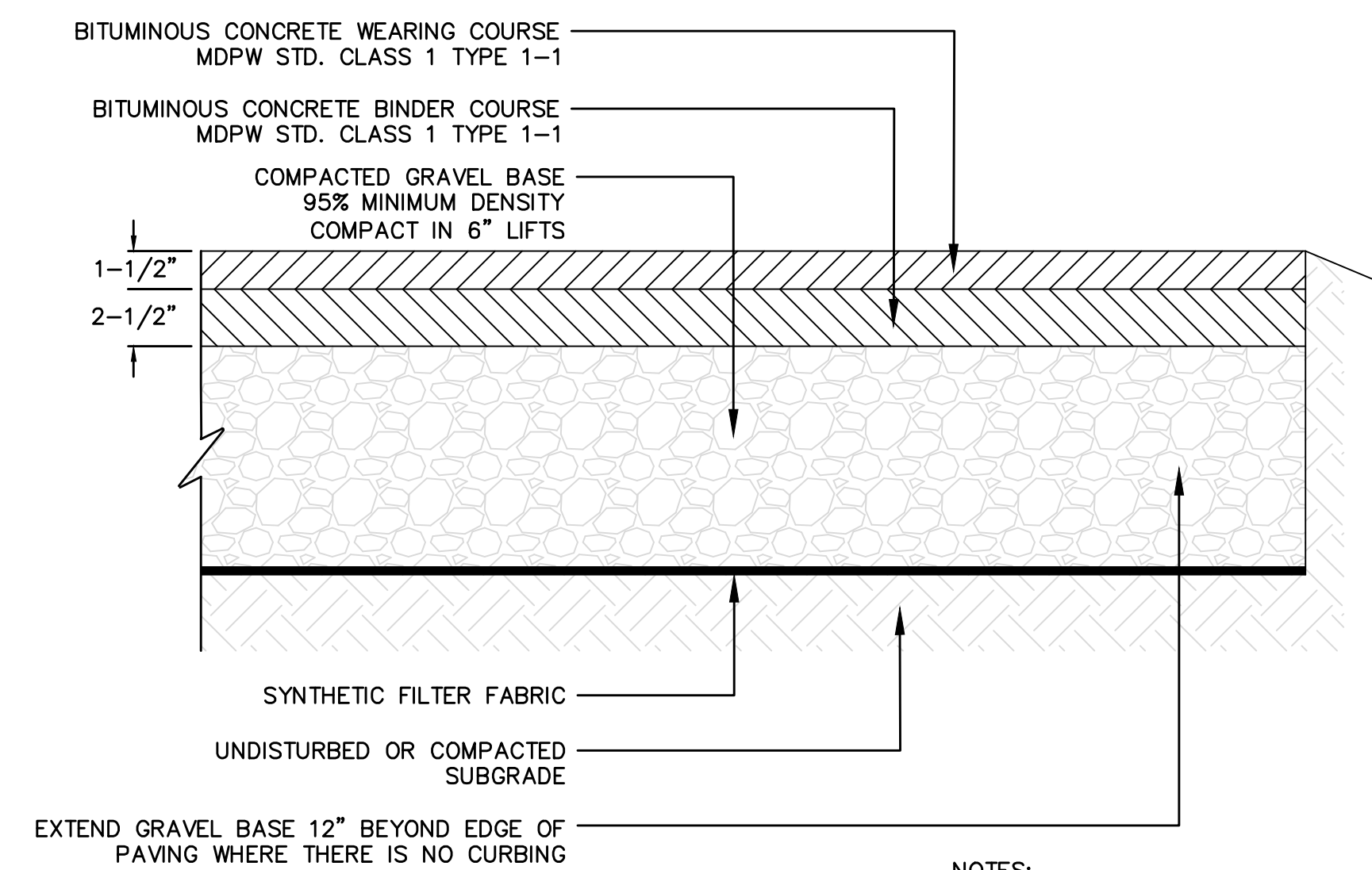
NO WATER SUPPLY LINES ARE TO BE CONSTRUCTED WITHIN 10 FEET OF THE LEACHING AREA OR SEPTIC TANK.

THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE DESIGN ENGINEER IMMEDIATELY IF CONDITIONS ENCOUNTERED DIFFER FROM THOSE SHOWN.

ALL STONE TO BE DOUBLE WASHED STONE FREE OF ALL SILT AND FINES

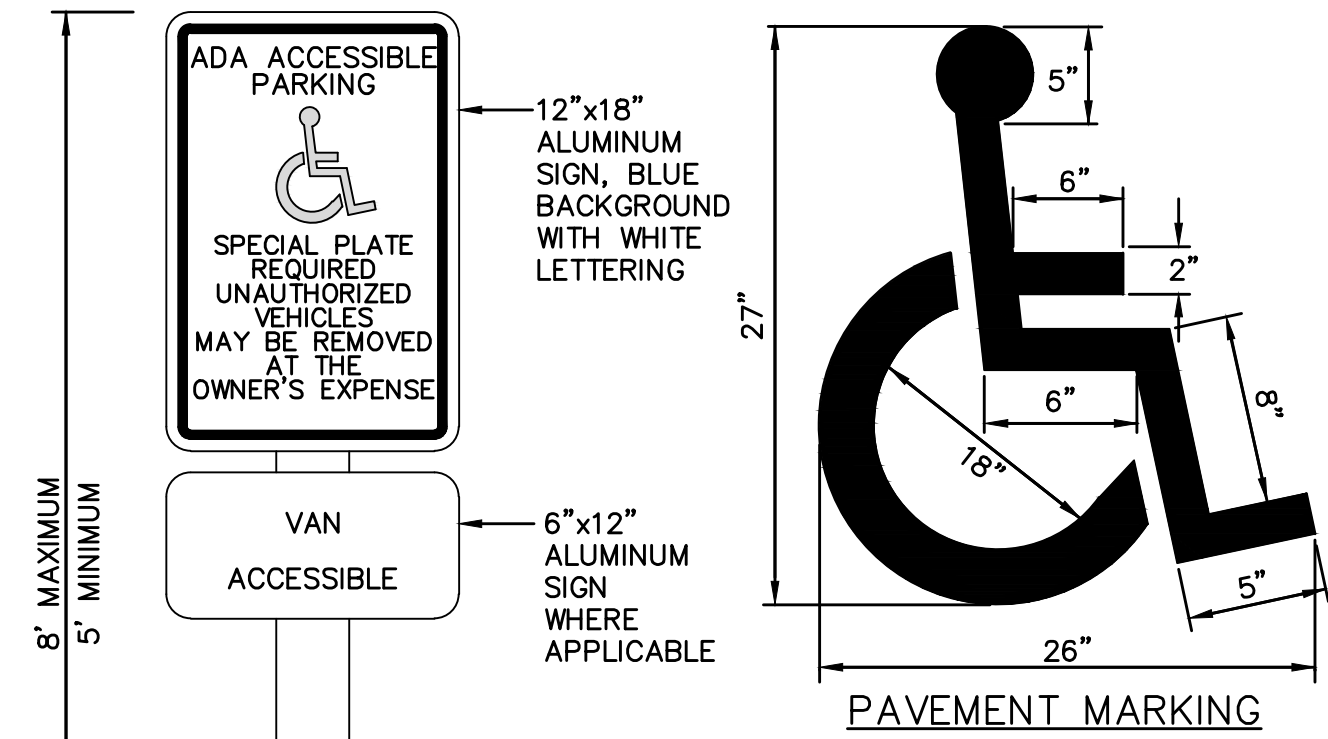
ALL TOP AND SUBSOIL TO BE REMOVED 5 FT IN ALL DIRECTIONS AND REPLACED WITH SELECT SAND FILL PER 310 CMR 15.255

THE BUILDING SEWER SHALL BE CONSTRUCTED OF FOUR (4) INCH DIAMETER, SCH 40 PVC PIPE EQUIPPED WITH WATERTIGHT JOINTS. THE BUILDING SEWER SHALL BE LAID IN A STRAIGHT LINE, ON A COMPACTED FIRM BASE, AT A CONTINUOUS GRADE PER PLANS



5 PROPOSED BITUMINOUS CONCRETE PAVING
(NOT TO SCALE)

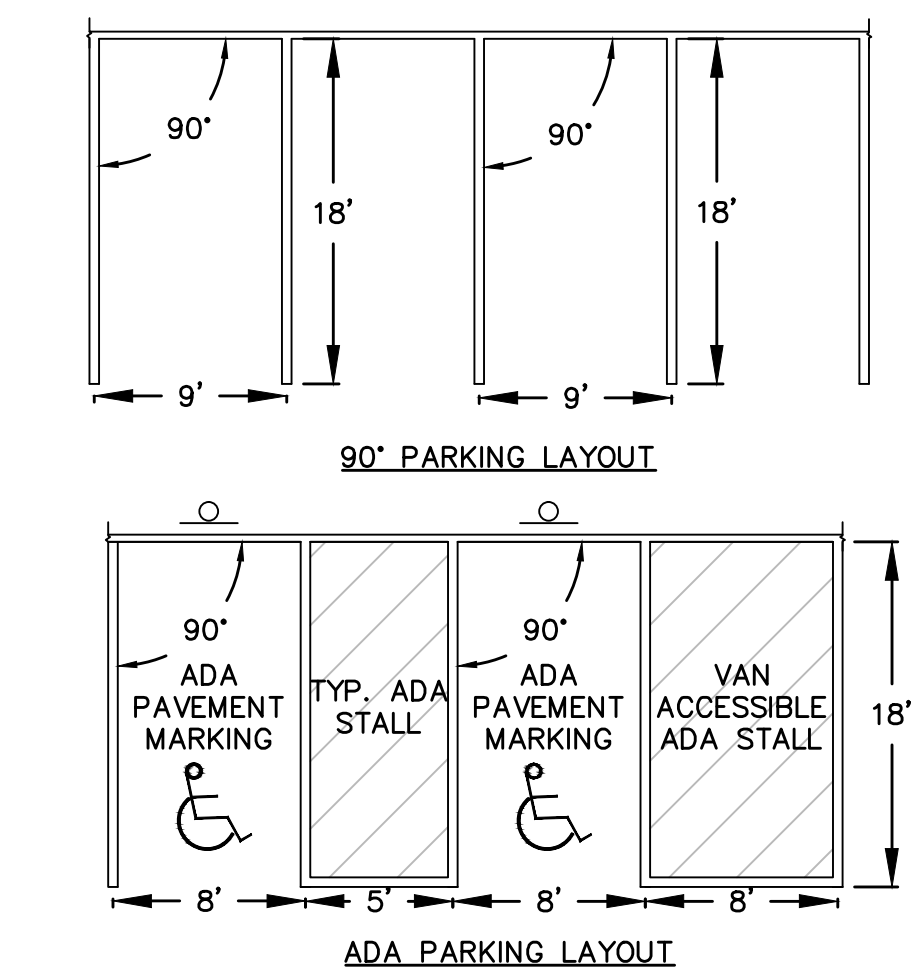
NOTES:
DEPTH OF BASE MATERIAL MAY BE INCREASED IF UNSUITABLE OR UNSTABLE CONDITIONS ARE ENCOUNTERED IN THE FIELD



6 ADA ACCESSIBLE PARKING SIGNAGE
(NOT TO SCALE)

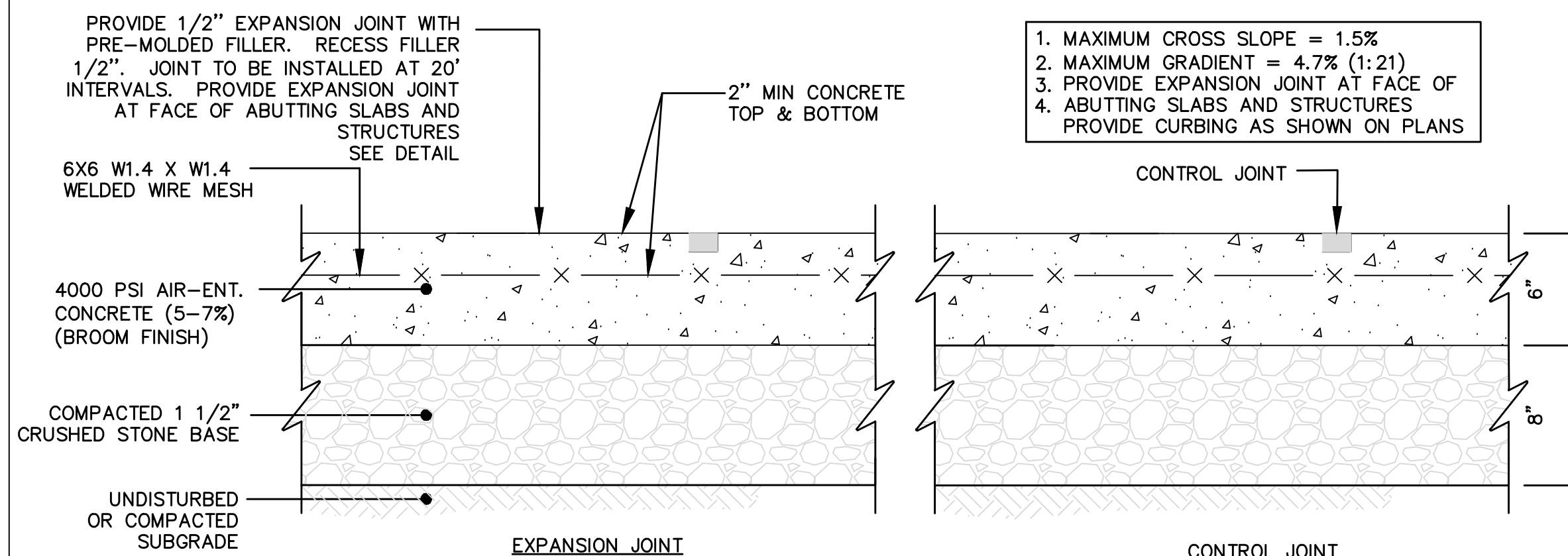
NOTES:
ALL ADA ACCESSIBLE PARKING AND SIGNAGE SHALL BE IN CONFORMANCE WITH THE RULES AND REGULATIONS OF THE ARCHITECTURAL ACCESS BOARD. SIGNS SHALL BE LOCATED BY THE CONTRACTOR IN A LOCATIONS WHERE THEY CANNOT BE OBTAINED BY VEHICLE PARKED IN THE SPACE

CONTRACTOR SHALL PROVIDE ALL STRIPING ON SITE. STRIPING SHOWN ON CIVIL PLANS IS FOR REFERENCE PURPOSES ONLY



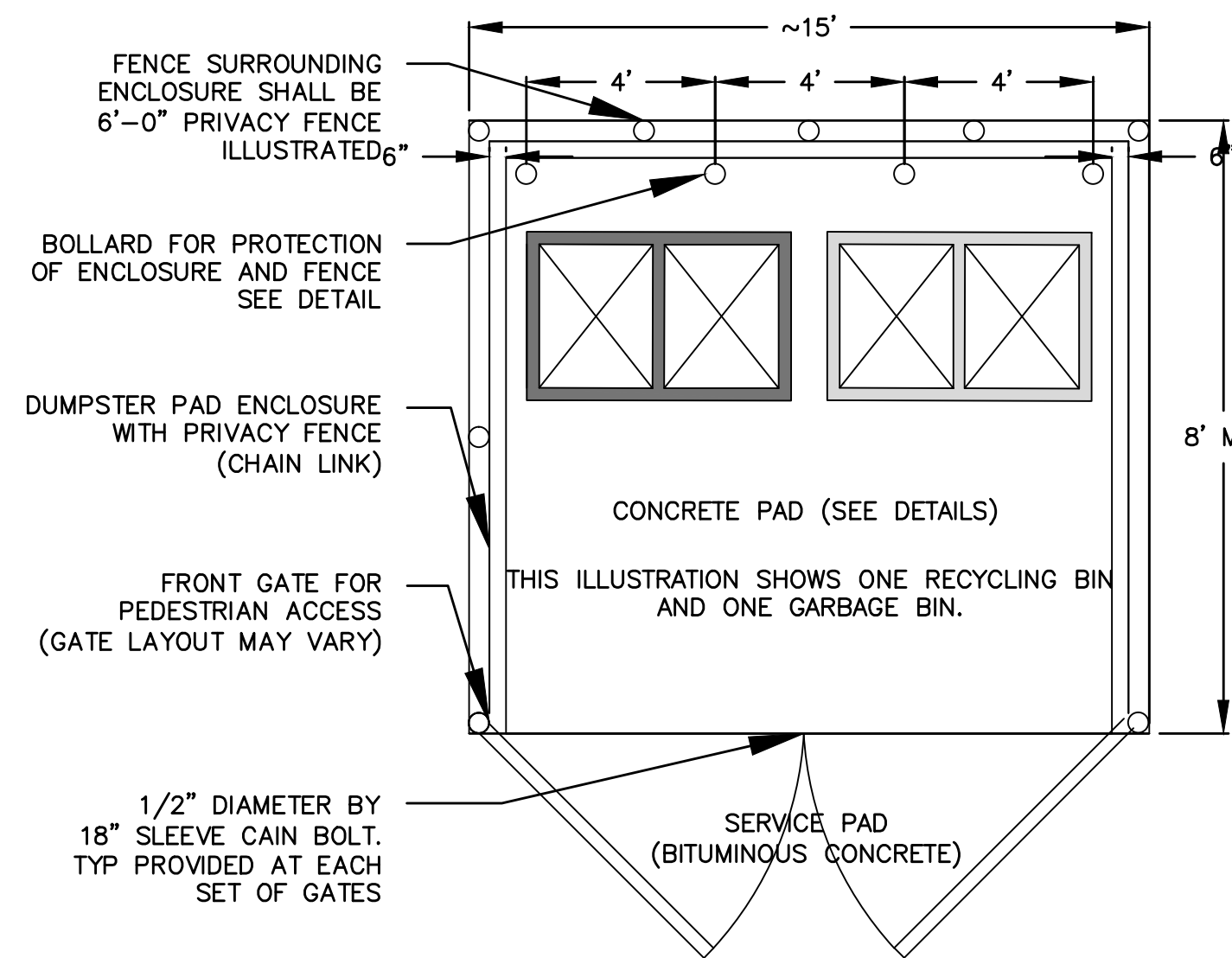
7 VARIOUS PARKING STALL LAYOUTS
(NOT TO SCALE)

NOTES:
CONTRACTOR SHALL PROVIDE ALL STRIPING ON SITE. STRIPING SHOWN ON CIVIL PLANS IS FOR REFERENCE PURPOSES ONLY

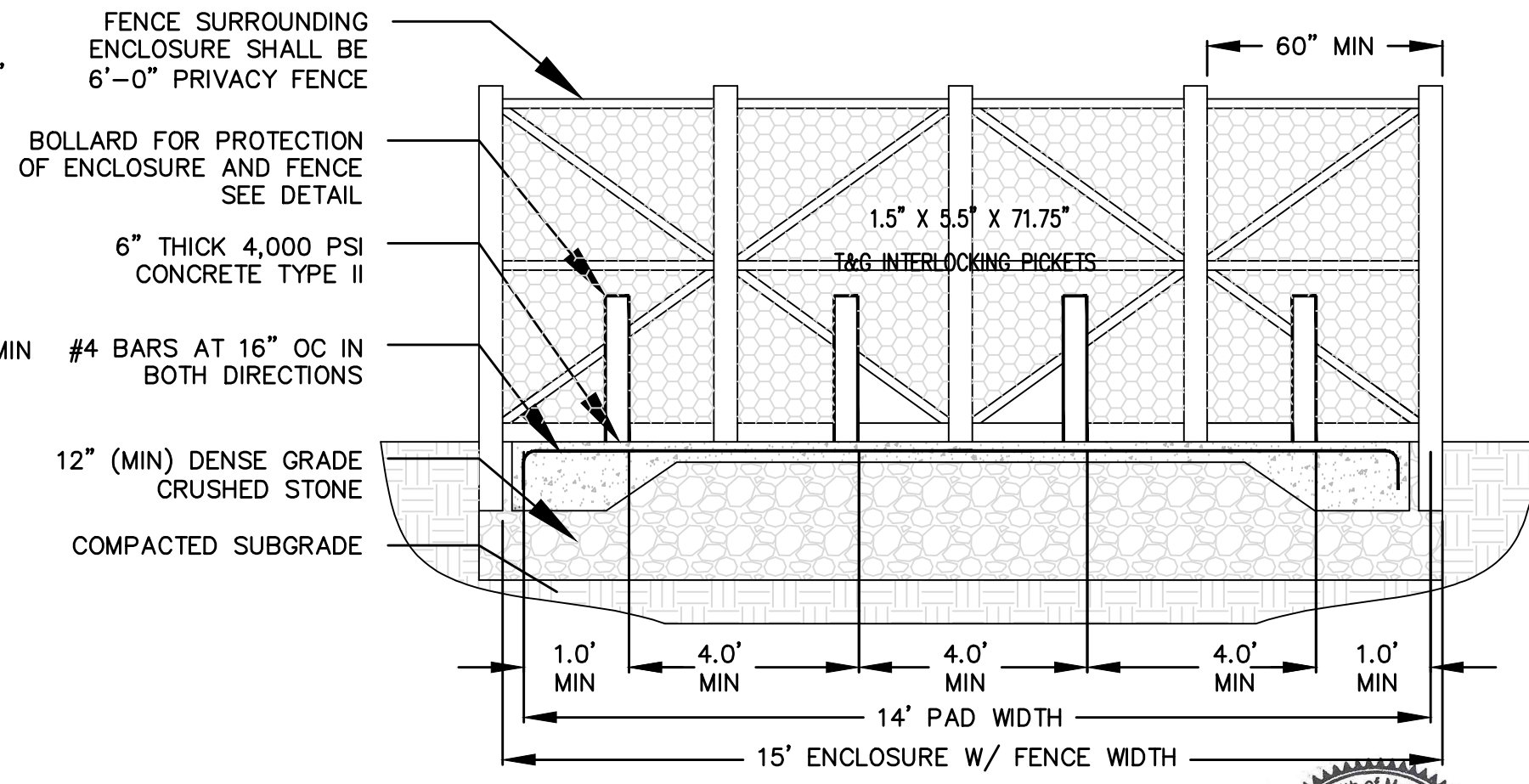


8 CONCRETE SIDEWALK
(NOT TO SCALE)

1. MAXIMUM CROSS SLOPE = 1.5%
2. MAXIMUM GRADIENT = 4.7% (1:21)
3. PROVIDE EXPANSION JOINT AT FACE OF ABUTTING SLABS AND STRUCTURES
4. ABUTTING SLABS AND STRUCTURES PROVIDE CURBING AS SHOWN ON PLANS



9 DUMPSTER PAD AND FENCE DETAIL (PLANVIEW)
(NOT TO SCALE)

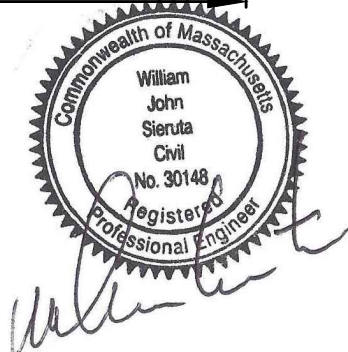


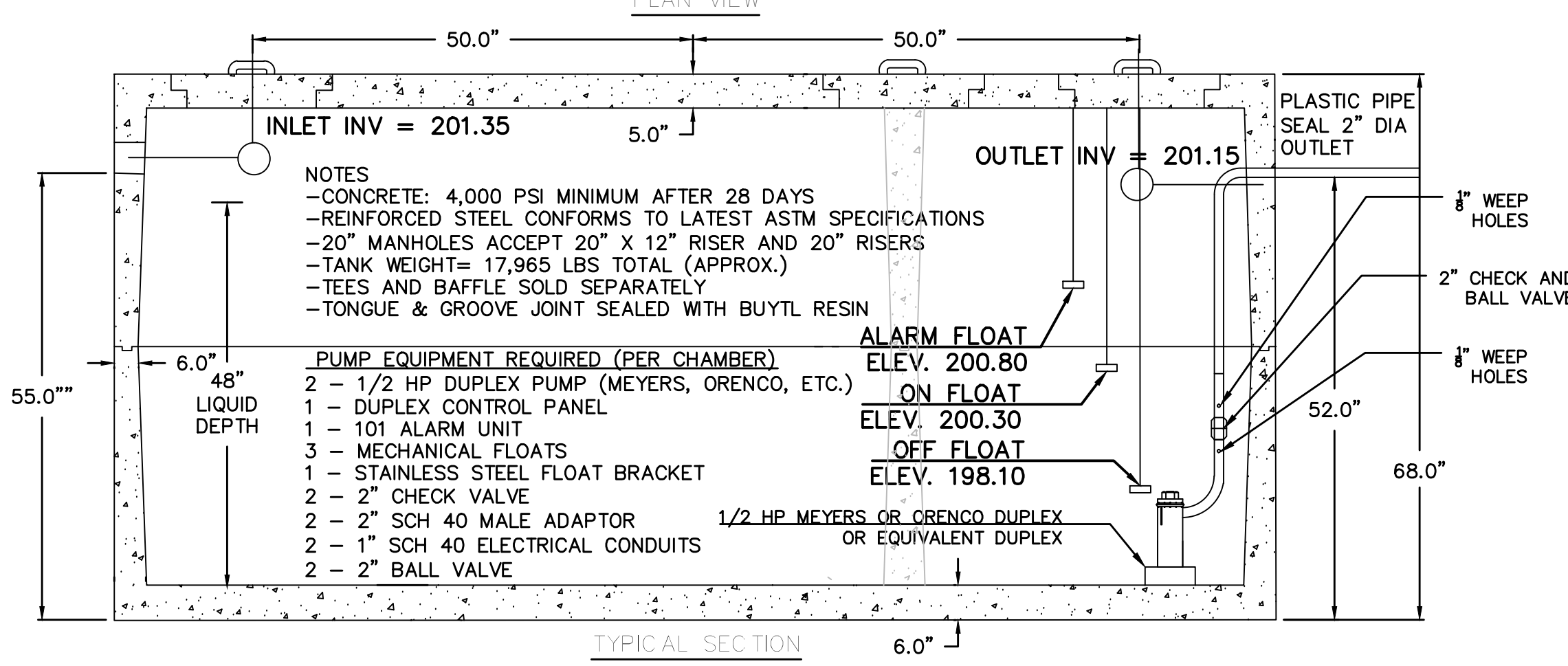
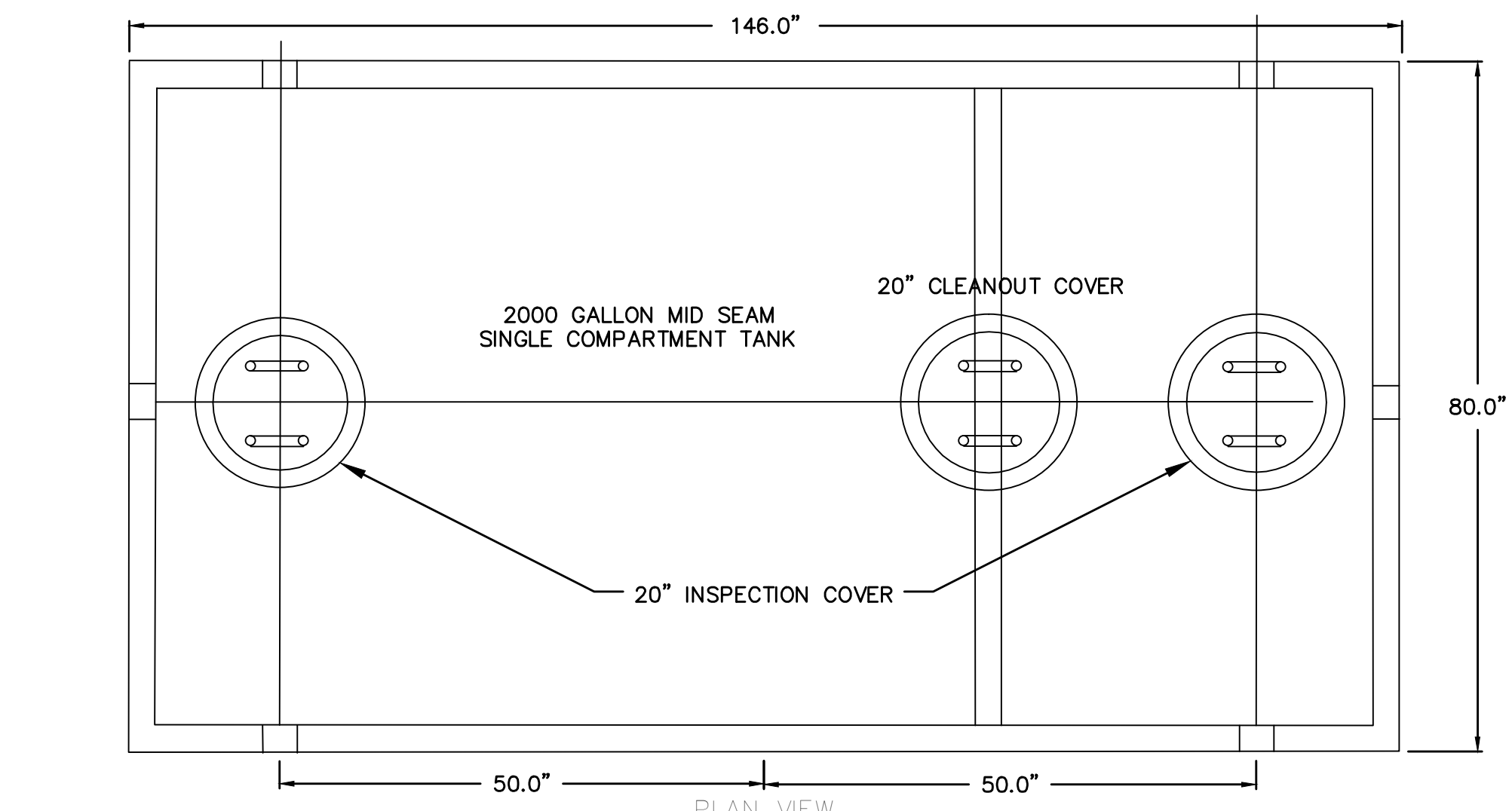
10 6'-0" PRIVACY FENCE (DUMPSTER PAD)
(NOT TO SCALE)

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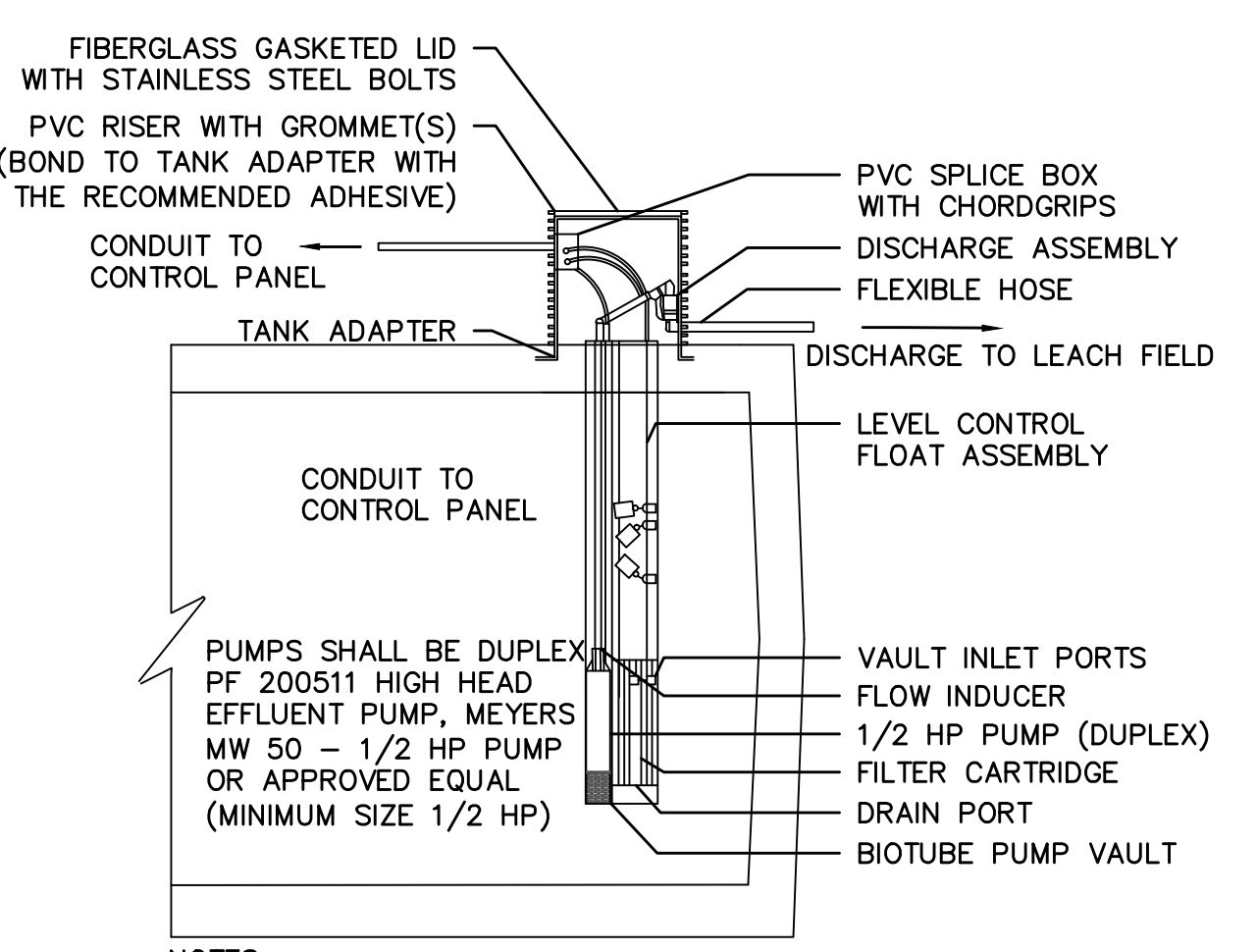
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1 3000 GALLON TWO COMPARTMENT UNDERGROUND STORAGE TANK W/ PUMP CHAMBER (NOT TO SCALE)

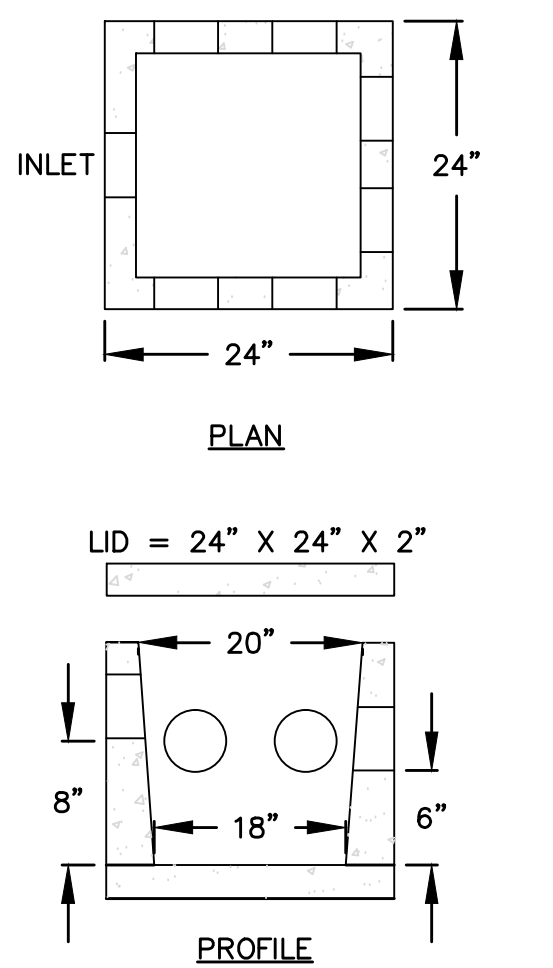


NOTES:
 DETAIL TAKEN FROM DIAGRAM FROM EXISTING SEPTIC SYSTEM DESIGN AND DESCRIPTIONS BY SUPPLIER. ALL WORK TO BE DONE BY LICENSED PROFESSIONAL. INSTALLATION SHALL CONFORM TO MANUFACTURERS RECOMMENDATIONS. DETAIL SHOW FOR ILLUSTRATIVE PURPOSES ONLY AND DETAIL MAY NOT REFLECT WHAT IS DONE IN THE FIELD

ACCORDING TO TITLE V 15.231 DUPLEX PUMPS SHALL BE REQUIRED FOR ALL COMMERCIAL PROPERTIES BOYANCY FORCE CALCULATIONS—2000 GALLON TANK TANK WEIGHT: 17,965 FROM MANUFACTURER: US) GROUNDWATER ELEVATION ASSUMPTION: DOWN 42" ELEV=196.50 TANK BOTTOM ELEVATION = 196.68; WATER TABLE ELEVATION = 196.50 NO BALLAST REQUIRED

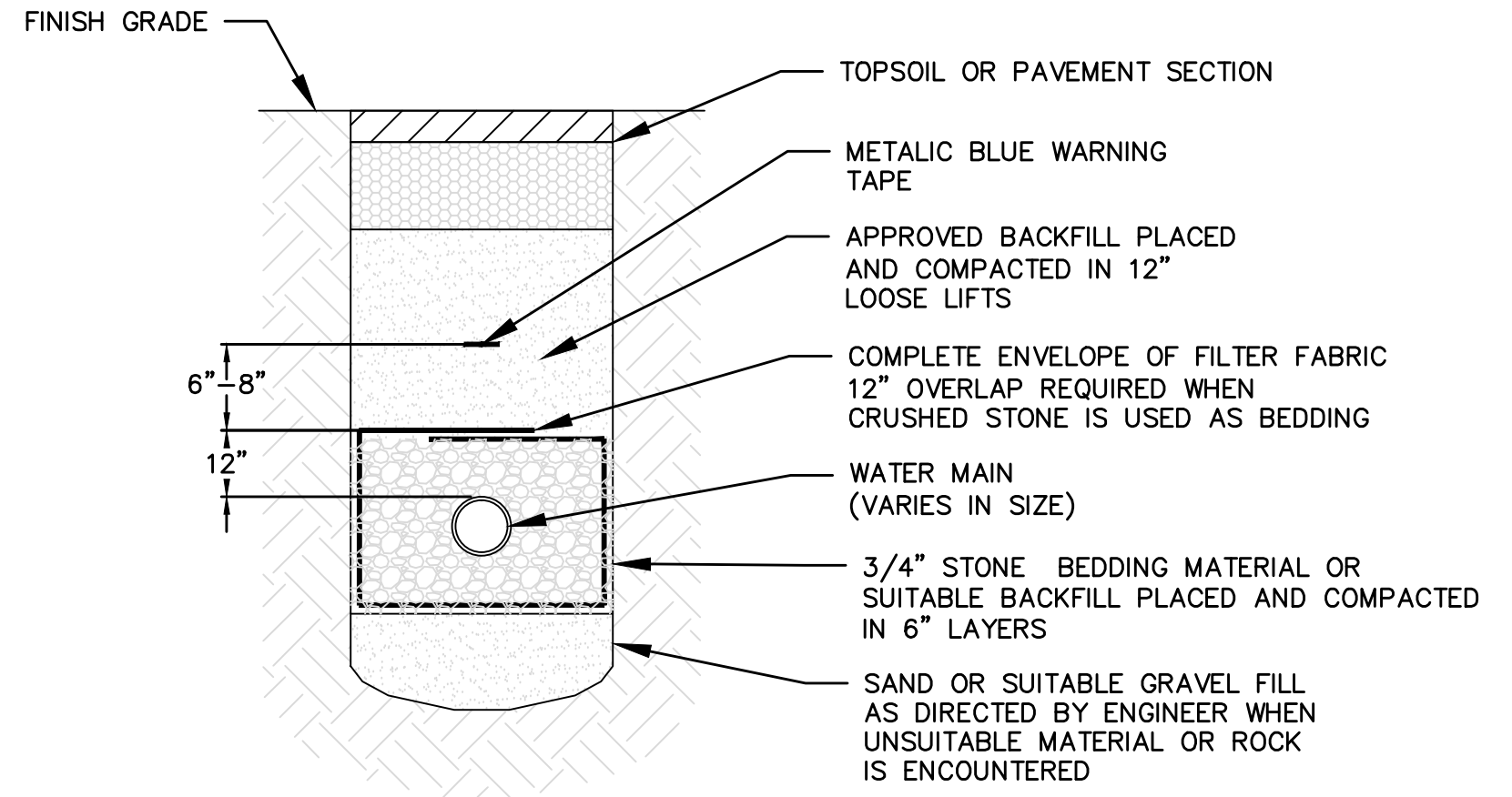
DOSE (200.30-198.10) X 125 GALLON PER FT = 275 GALLON PER DOSE

2 PUMP SETUP DETAIL (NOT TO SCALE)



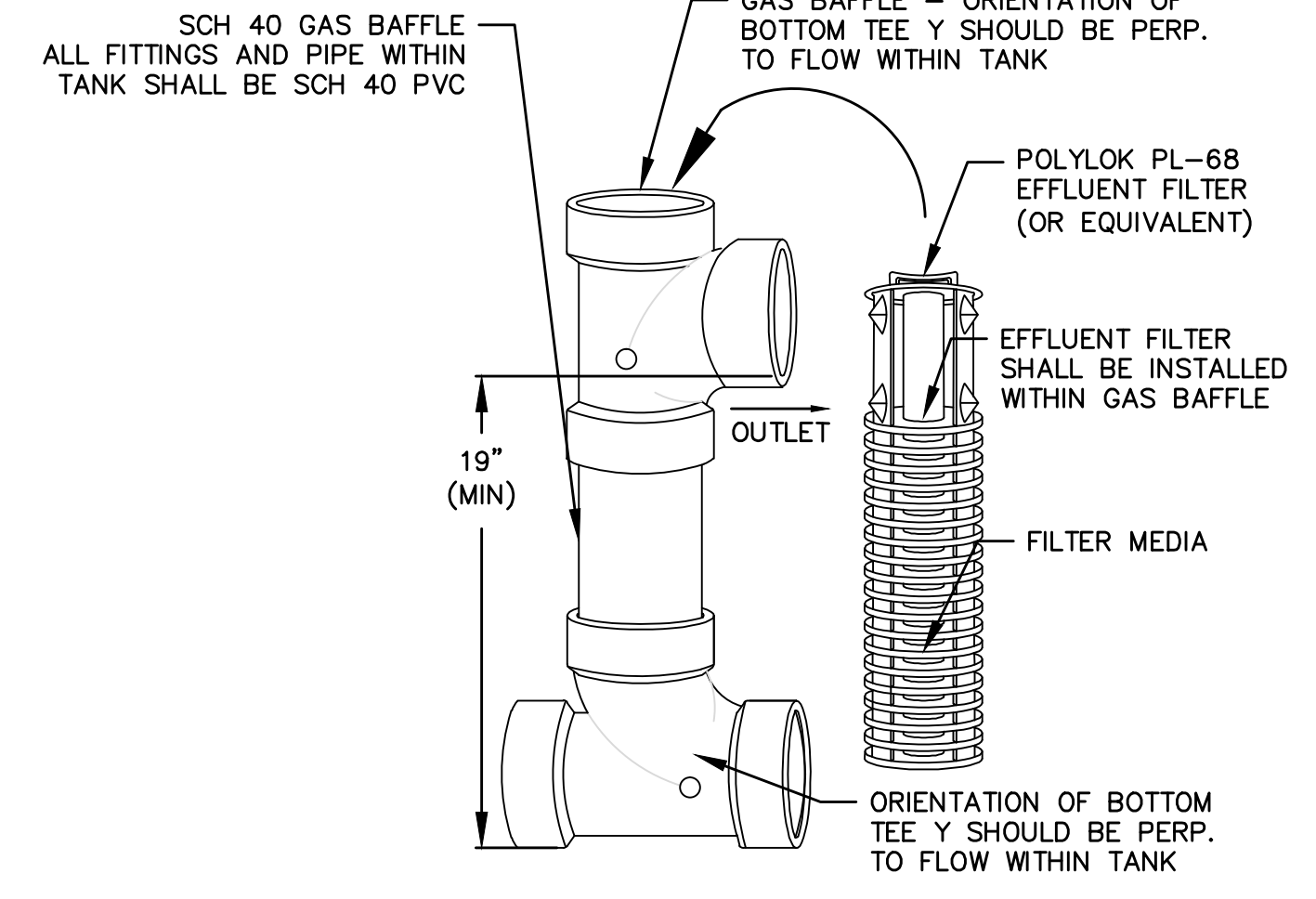
NOTES:
 • THE INITIAL TWO FEET OF ALL PIPE OUT OF THE DISTRIBUTION BOX TO BE SET LEVEL.
 • DISTRIBUTION BOX SHALL CONFORM TO TITLE 5 REQUIREMENTS
 • SEE GENERAL NOTES ON SHEET 1 & 2.
 • BOTTOM ON LEVEL STABLE BASE (6" OF WASHED STONE OR COMPACTED GRAVEL IN FILL AREAS)

4 DISTRIBUTION BOX DETAIL (NOT TO SCALE)



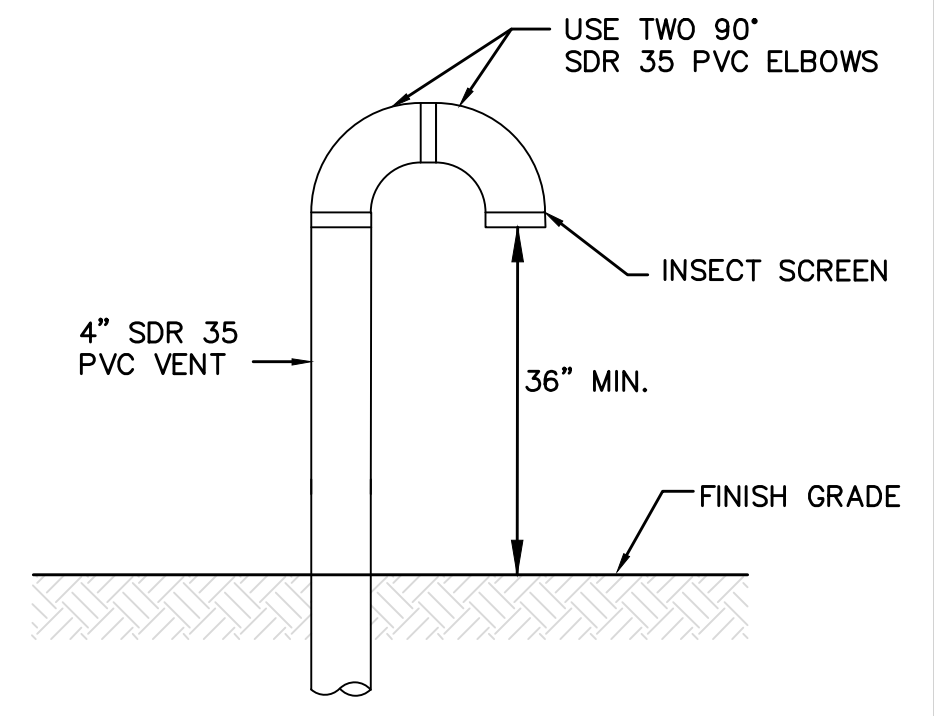
NOTES:
 DETAIL SHOW FOR ILLUSTRATIVE PURPOSES ONLY. INSTALLATION OF WATER MAINS SHALL BE COORDINATED WITH THE CITY OF HOLYOKE, MA WATER AND SEWER COMMISSION. ALL PIPE SHALL BE CLASS 52 PUSH JOINT DIOL.

3 WATER LINE TRENCH DETAIL (NOT TO SCALE)

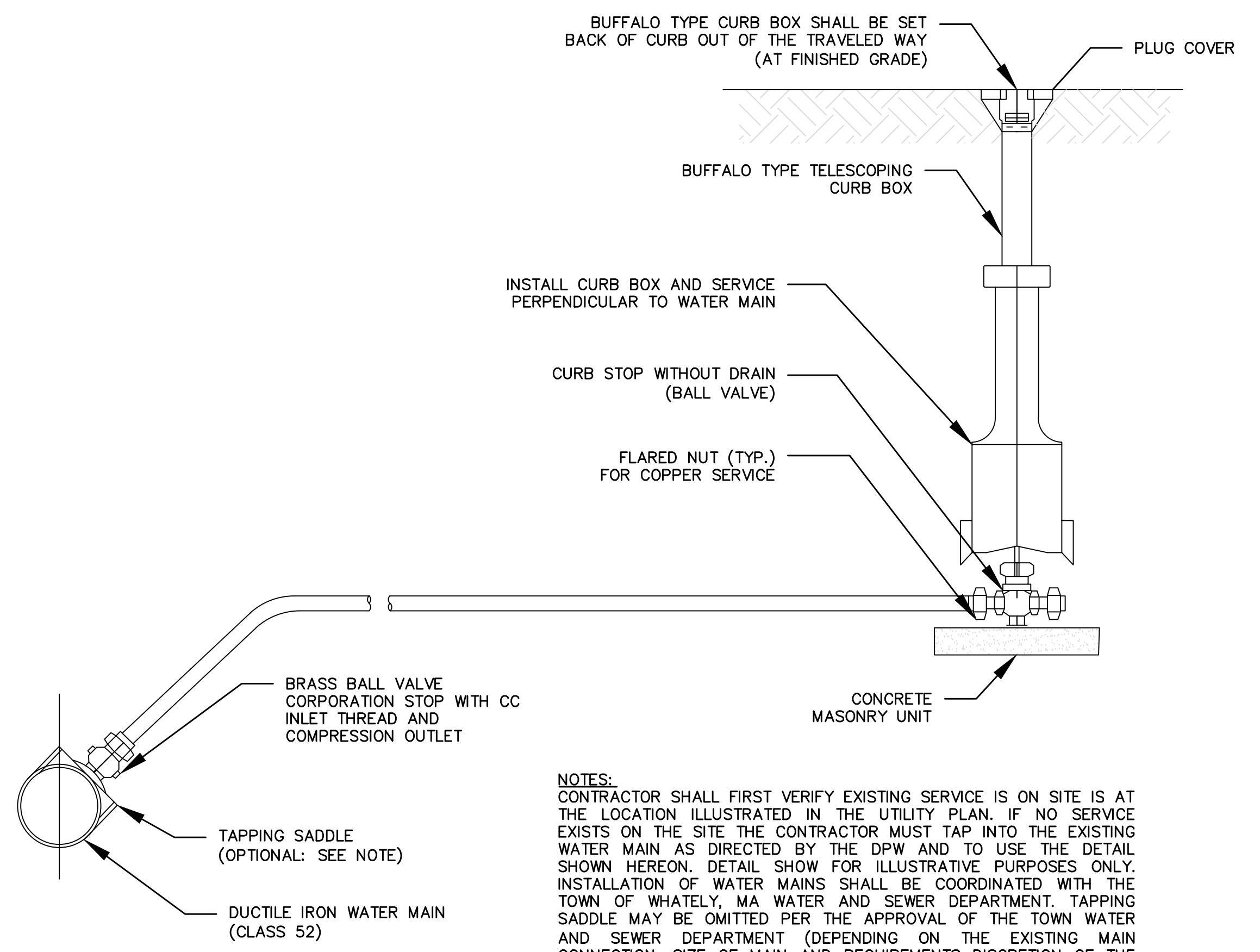


NOTES:
 • FILTER SHALL BE CLEANED AT LEAST ONCE PER YEAR AND DURING INSPECTION AND DURING PUMPING OF SEPTIC TANK
 • A POLYLOK PL-68 EFFLUENT FILTER OR EQUIVALENT FILTER SHALL BE USED (CONSULT ENGINEER OR DISTRIBUTOR)

5 GAS BAFFLE W/FILTER DETAIL (NOT TO SCALE)

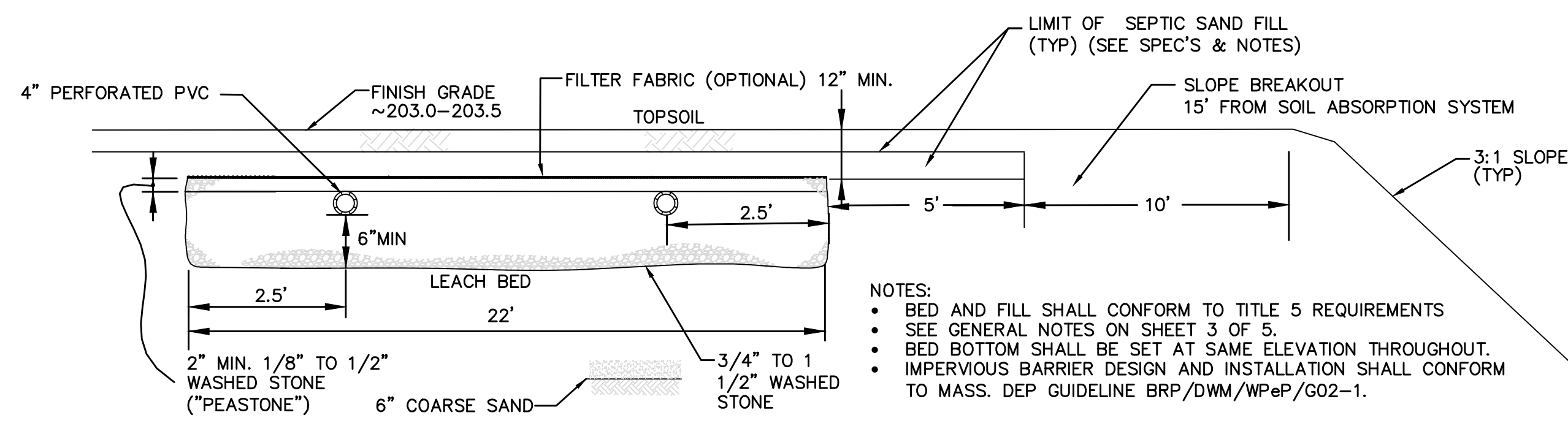


6 MANIFOLD VENT DETAIL (NOT TO SCALE)



NOTES:
 CONTRACTOR SHALL FIRST VERIFY EXISTING SERVICE IS ON SITE IS AT THE LOCATION ILLUSTRATED IN THE UTILITY PLAN. IF NO SERVICE EXISTS ON THE SITE THE CONTRACTOR MUST TAP INTO THE EXISTING WATER MAIN AS DIRECTED BY THE DPW AND TO USE THE DETAIL SHOWN HEREON. DETAIL SHOW FOR ILLUSTRATIVE PURPOSES ONLY. INSTALLATION OF WATER MAINS SHALL BE COORDINATED WITH THE TOWN OF WHATELY, MA WATER AND SEWER DEPARTMENT. TAPPING SADDLE MAY BE OMITTED PER THE APPROVAL OF THE TOWN WATER AND SEWER DEPARTMENT (DEPENDS ON THE EXISTING MAIN CONNECTION, SIZE OF MAIN AND REQUIREMENTS DISCRETION OF THE TOWN). IF TAPPING SADDLE IS TO BE USED THE SADDLE SHALL HAVE A STAINLESS STEEL BANK AND STAINLESS STEEL THREADED ROD AND NUTS. BODY OF SADDLE SHALL BE EPOXY COATED.

4 WATER SERVICE CONNECTION (NOT TO SCALE)



NOTES:
 • BED AND FILL SHALL CONFORM TO TITLE 5 REQUIREMENTS
 • SEE GENERAL NOTES ON SHEET 3 OF 5.
 • BED BOTTOM SHALL BE SET AT SAME ELEVATION THROUGHOUT.
 • IMPERVIOUS BARRIER DESIGN AND INSTALLATION SHALL CONFORM TO MASS. DEP GUIDELINE BRP/DWM/WPEP/G02-1.

7 LEACH FIELD DETAIL WITH IMPERVIOUS BARRIER (NOT TO SCALE)

GENERAL NOTES

THESE PLANS AND SPECIFICATIONS ARE INTENDED TO BE EXPLANATORY OF THE WORK TO BE DONE AND OF EACH OTHER, BUT SHOULD ANY OMISSIONS, ERRORS OR DISCREPANCIES APPEAR THEY SHALL BE SUBJECT TO CORRECTION AND INTERPRETATION BY THE DESIGN ENGINEER.

ALL CONSTRUCTION AND CONSTRUCTION ACTIVITIES SHALL CONFORM TO STATE AND LOCAL REQUIREMENTS. INCLUDING BUT NOT LIMITED TO THE TOWN OF WHATELY FRANKLIN COUNTY, COMMONWEALTH OF MASSACHUSETTS AND OSHA.

ALTERNATIVE MANUFACTURERS FOR MATERIALS SHOWN ON THESE PLANS MAY BE USED ONLY UPON WRITTEN APPROVAL BY THE DESIGN ENGINEER. ALTERNATE MANUFACTURERS WILL NOT BE APPROVED IF THE USE OF THEIR EQUIPMENT REQUIRES DESIGN CHANGES.

IF ANY PART OF THIS DESIGN IS TO BE ALTERED IN ANY WAY, THE DESIGN ENGINEER AND THE APPROVING AGENCIES SHALL BE NOTIFIED IN WRITING AND THEIR APPROVAL OBTAINED PRIOR TO CONSTRUCTION.

NO RAINWATER LEADER OR ANY DRAIN OTHER THAN SANITARY SEWER LINES SHALL DISCHARGE OR BE CONNECTED TO THE SANITARY SYSTEM. NO INDUSTRIAL WASTE SHALL BE DISCHARGED INTO THE SANITARY SYSTEM.

THE INSTALLER SHALL CONTACT THE WHATELY BOARD OF HEALTH PRIOR TO THE START OF CONSTRUCTION AND CONFORM TO ALL INSPECTION REQUIREMENTS OF THE WHATELY BOARD OF HEALTH BEFORE, DURING AND AFTER CONSTRUCTION.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SEE THAT ALL PERMITS AND APPROVALS ARE OBTAINED. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL SAFETY CODES IN THE CONSTRUCTION OF THIS SUBSURFACE SEWAGE DISPOSAL SYSTEM

8. THE LOCATION OF EXISTING UTILITIES IS APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. NOTIFY "DIG-SAFE" AT 1-888-344-7233 AT LEAST 72 HOURS PRIOR TO ANY SITE DEMOLITION OR EXCAVATION.

NO WATER SUPPLY LINES ARE TO BE CONSTRUCTED WITHIN 10 FEET OF THE LEACHING AREA OR SEPTIC TANK.

THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE DESIGN ENGINEER IMMEDIATELY IF CONDITIONS ENCOUNTERED DIFFER FROM THOSE SHOWN.

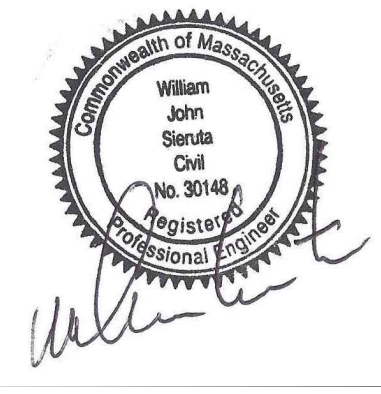
ALL STONE TO BE DOUBLE WASHED STONE FREE OF ALL SILT AND FINES

ALL TOP AND SUBSOIL TO BE REMOVED 5 FT IN ALL DIRECTIONS AND REPLACED WITH SELECT SAND FILL PER 310 CMR 15.255

THE BUILDING SEWER SHALL BE CONSTRUCTED OF FOUR (4) INCH DIAMETER, SCH 40 PVC PIPE EQUIPPED WITH WATERTIGHT JOINTS. THE BUILDING SEWER SHALL BE LAID IN A STRAIGHT LINE, ON A COMPACTED FIRM BASE, AT A CONTINUOUS GRADE PER PLANS

JD ROSS - JDR BUILDERS
 PROPOSED COMMERCIAL BUILDING
 EGYPT ROAD
 WHATELY MASSACHUSETTS

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PROJECT: JDR BUILDERS EGYPT RD
 DATE: APRIL 23, 2023
 SHEET: U4.0
 SCALE: N/A