## GENERAL

- 1. THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY, AND THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MEANS AND METHODS OF CONSTRUCTION AND SHALL TAKE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. INCLUDING, BUT NOT LIMITED TO, SHORING, BRACING, AND TEMPORARY EXCAVATIONS, AND SHALL BE IN ACCORDANCE WITH ALL STATE AND FEDERAL SAFETY REQUIREMENTS.
- 3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, AND SITE CONDITIONS BEFORE STARTING WORK AND SHALL NOTIFY THE ARCHITECT AND ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
- 4. ALL OMISSIONS AND CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER BEFORE PROCEEDING WITH WORK SO INVOLVED.
- 5. ANY CONFLICTS ON THE DRAWINGS MUST BE RESOLVED WITH THE ARCHITECT AND ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION.
- 6. THE CONTRACTOR SHALL DETERMINE THE LOCATION OF UTILITY SERVICES IN THE AREA TO BE EXCAVATED PRIOR TO BEGINNING EXCAVATION.
- 7. NO PIPES, DUCTS, SLEEVES, CHASES, ETC. SHALL BE PLACED IN SLABS, BEAMS, OR WALLS UNLESS SPECIFICALLY SHOWN OR NOTED. NOR SHALL ANY STRUCTURAL MEMBER BE CUT FOR PIPES, DUCTS, OR OTHER ITEMS UNLESS OTHERWISE NOTED. CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FOR INSTALLATION OF ANY ADDITIONAL PIPES, DUCTS, OR OTHER ITEMS. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATIONS.
- 8. ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF THE LOCAL BUILDING CODE AND SHALL COMPLY WITH AND BE INSTALLED IN ACCORDANCE WITH ALL THE REQUIREMENTS OF ALL LEGALLY CONSTITUTED PUBLIC AUTHORITIES HAVING JURISDICTION, INCLUDING ALL COUNTY AND LOCAL ORDINANCES, AND THE SAFETY ORDERS OF THE STATE INDUSTRIAL ACCIDENT COMMISSION, OSHA.
- 9. WHERE A SECTION OR TYPICAL DETAIL IS SHOWN FOR ONE CONDITION IT SHALL APPLY FOR ALL LIKE OR SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
- 10. NO CHANGES ARE TO BE MADE TO THESE PLANS WITHOUT THE KNOWLEDGE AND WRITTEN CONSENT OF MST MANUFACTURING, LLC.
- 11. ANY REFERENCE TO THE WORDS APPROVED, OR APPROVAL IN THESE DOCUMENTS SHALL BE HERE DEFINED TO MEAN GENERAL ACCEPTANCE OR REVIEW AND SHALL NOT RELIEVE THE CONTRACTOR AND/OR HIS SUB-CONTRACTORS OF ANY LIABILITY IN FURNISHING THE REQUIRED MATERIALS OR LABOR SPECIFIED.
- 12. CONCRETE SLAB-ON-GRADE HAS NOT BEEN DESIGNED FOR CONSTRUCTION LOADS OR SPECIFIC OCCUPANT SERVICE LOADS BY THE STRUCTURAL ENGINEER.
- 13. VIBRATIONAL EFFECTS OF MECHANICAL EQUIPMENT HAVE NOT BEEN CONSIDERED BY THE STRUCTURAL ENGINEER.
- 14. THIS SHEET AND SUBSEQUENT DRAWINGS CONTAIN MANUFACTURER'S MINIMUM RECOMMENDATIONS ONLY. SPECIFICATIONS OF PROJECT STRUCTURAL ENGINEER SUPERCEDE THESE RECOMMENDATIONS.
- 15. SEE ENGINEER AND/OR ARCHITECT'S SPECIFICATIONS AND ADDITIONAL REQUIREMENTS.OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE OBSERVATION OF SAFETY METHODS, BRACING, OR SUPPORT AND SHALL NOT BE CONSTRUED AS INSPECTION NOR APPROVAL OF CONSTRUCTION.

## INSTALLATION INSTRUCTIONS

### INSTALLATION NOTES BELOW ARE A SUMMARY. REFER TO INSTALLATION MANUAL FOR ADDITIONAL REQUIREMENTS FOR PROPER TANK INSTALLATION

- 1. ALL TANKS MUST BE VISUALLY INSPECTED IN THE FIELD TO ENSURE NO DAMAGE HAS OCCURRED FROM SHIPPING AND HANDLING.
- 2. IN ADDITION TO THE MANUFACTURER'S INSTRUCTIONS, THE INSTALLATION MUST COMPLY WITH ALL APPLICABLE BUILDING CODES.
- 3. SHIP TANKS ON SUPPORT SADDLES PROVIDED.
- 4. PLACE SADDLES NEAR EACH END OF TANK, DISTRIBUTING WEIGHT EVENLY.
- 5. MOVE TANKS BY LIFTING, USING LIFTING LUGS PROVIDED. DO NOT REMOVE TANKS BY DRAGGING OR ROLLING OFF OF CARRIER. USE DOUBLE SLING WITH A MINIMUM OF 8" OF CABLE ON EACH SIDE FOR LIFTING. PLACE TANKS ON GROUND USING SADDLES PROVIDED, AND CHOCK BOTH SIDES OF TANK TO ENSURE IT WILL NOT ROLL IN WINDY CONDITIONS.
- 6. RECOMMENDED LIFTING EQUIPMENT:
  - EXCAVATION EQUIPMENT THAT IS CAPABLE OF PRODUCING A LEVEL BOTTOM HOLE
  - AND CAN PLACE BACKFILL MATERIAL AT ALL POINTS OF THE EXCAVATION - CRANE AND OR LIFTING EQUIPMENT THAT IS CAPABLE OF LIFTING AND PLACING
  - TANKS AND ANCHORING DEVICES
  - TAPE MEASURE - SPIRIT LEVEL OR TRANSIT
  - TAMPING ROD - HAND SHOVELS
  - 8' LIFTING CHAIN OR SLING WITH HOOK ENDS. LARGER TANKS REQUIRE USE OF
  - SPREADER BAR - SOIL COMPACTING EQUIPMENT.
- 7. VISUAL INSPECTION:
- ALL TANKS SHALL BE VISUALLY INSPECTED OVER THE ENTIRE VESSEL, PAYING PARTICULAR ATTENTION TO LOCATION OF SHIPPING CRADLES AND STRAPPING. INSPECT FOR THE FOLLOWING DEFECTS: - VISIBLE FRACTURES IN THE WALL OR RIBS.
- DELAMINATING.
- SCRATCHES, ABRASIONS, OR GAUGES EXTENDING MORE THAN 1/16" INTO THE LAMINATE OF THE FIBERGLASS.
- STRESS CRACKS (FINE SPIDER WEB LIKE CRACKS DEEP INTO THE STRUCTURE).
- 8. IF ANY DAMAGE IS PRESENT, THE TANK SHALL NOT BE INSTALLED UNTIL IT IS INSPECTED AND REPAIRED BY AN AUTHORIZED PERSON.
- 9. BURIAL DEPTH SPECIFICATIONS
  - ACCESSIBILITY WHILE ALL TANKS ARE STRUCTURALLY DESIGNED FOR 2FT TO 6FT OF BURIAL DEPTH, IT IS NOT RECOMMENDED TO INSTALL TANKS DEEPER THAN 4FT AS THIS WILL LEAD TO MAINTENANCE AND ACCESSIBILITY ISSUES.
  - PLUMBING AND APPURTENANCES ALL TANKS ARE DELIVERED WITH ENOUGH PLUMBING AND FIXTURES FOR A 4FT BURIAL DEPTH. CONTRACTOR WILL NEED TO PROVIDE ANY ADDITIONAL PLUMBING FOR TANKS BURIED DEEPER THAN 4FT
- GREATER THAN 6FT BURIAL DEPTH PROJECTS REQUIRING GREATER THAN 6FT BURIAL DEPTH MUST BE CONSULTED WITH A PROFESSIONAL CIVIL OR GEOTECHNICAL ENGINEER BEFORE INSTALLATION.
- 10. BACKFILL SPECIFICATIONS:
  - THE CONTRACTOR, ENGINEER, ARCHITECT, OR OWNER SHALL DETERMINE IF A TRAFFIC-RATED INSTALLATION IS REQUIRED. EXCAVATION SIZE AND BACKFILL SPECIFICATIONS WILL DIFFER WHEN TANK IS INSTALLED TO MEET TRAFFIC RATING REQUIREMENTS, AS DETAILED ON SUBSEQUENT DRAWINGS.
- THE TANK MUST BE INSTALLED WITH SPECIFIED PRIMARY BACKFILL ONLY IN THE REGION IMMEDIATELY AROUND THE TANK. THE PRIMARY BACKFILL MUST EXTEND A MINIMUM OF 12 INCHES ON SIDES AND ENDS. PRIMARY BACKFILL UNDER THE TANK IS TO BE A MINIMUM OF 12 INCHES.
- 11. SPECIFIED BACKFILL MATERIALS:
- PEA GRAVEL:
- NATURALLY ROUNDED AGGREGATE WITH A PARTIAL SIZE OF NOT LESS THAN 1/8 INCH AND NOT GREATER THAN 3/4 INCH. GRAVEL MUST BE CLEAN AND FREE FLOWING, AND FREE FROM DEBRIS. CRUSHED STONE:
- CRUSHED STONE OR GRAVEL WITH PARTIAL SIZE NOT LESS THAN 1/8 INCH AND NOT GREATER THAN 1/2 INCH. AGGREGATE MUST BE CLEAN AND FREE FLOWING, AND FREE FROM DEBRIS.
- 12. SECONDARY BACKFILL SPECIFICATION:
  - SECONDARY BACKFILL CAN ONLY BE USED AT THE ABOVE-SPECIFIED DISTANCE FROM THE TANK WALLS. SECONDARY BACKFILL CAN BE USED AT MORE THAN 18 INCHES ABOVE TANK.
  - COURSE SAND OR GRAVEL: - COURSE SAND OR GRAVEL CONTAINING ROCKS NO LARGER THAN 1 1/2 INCHES.
  - BACKFILL SHALL BE CLEAN AND FREE FROM DEBRIS.
  - DURING PLACEMENT THIS BACKFILL MATERIAL MUST BE COMPACTED TO 95% RELATIVE COMPACTION. (AS MEASURED BY ASTM DI557 PROCEDURE.) SELECT NATIVE BACKFILL:
  - SELECT NATIVE BACKFILL CONTAINING ROCKS NO LARGER THAN 1 1/2 INCHES. THIS MATERIAL CAN BE USED OUTSIDE OF ABOVE NOTED DISTANCES FROM THE
  - DURING PLACEMENT THIS BACKFILL MATERIAL MUST BE COMPACTED TO 95% RELATIVE COMPACTION. (AS MEASURED BY ASTM DI557 PROCEDURE.)
- 12. ALL BACKFILL MATERIAL MUST BE FREE OF ICE AND SNOW AT TIME OF INSTALLATION, AND SHALL NOT CONTAIN LUMPS OR FROZEN MATERIAL AT ANY TIME DURING INSTALLATION.
- 13. USE OF BACKFILL AND BEDDING MATERIAL OTHER THAN THAT SPECIFIED ABOVE WITHOUT PRIOR WRITTEN APPROVAL WILL VOID TANK WARRANTY.
- 14. FILTER FABRIC LINER: IT IS GEOLOGIST, GEOTECHNICAL ENGINEER OR OTHER QUALIFIED PROFESSIONAL RESPONSIBILITY TO DETERMINE IF A FILTER FABRIC LINER IS REQUIRED. THE FILTER FABRIC PREVENTS THE MIXING OF PEA GRAVEL WITH NATIVE SOIL AND KEEPS THE BACKFILL STABLE.
- 15. BEDDING AND BACKFILL INSTRUCTIONS FOR WET HOLE INSTALLATION: PREPARE EXCAVATION ACCORDING TO REQUIRED SIZE AND DEPTH. LEVEL BOTTOM OF HOLE. INSTALL APPROPRIATE PUMPING EQUIPMENT AT SIDE OF EXCAVATION LOWER THAN INTENDED BOTTOM OF EXCAVATION. MAINTAIN WATER LEVEL AS LOW AS POSSIBLE. LEVEL BOTTOM OF HOLE USING PRIMARY BACKFILL MATERIAL.
- 16. PLACEMENT OF TANK ANCHORS: PLACE TANK ANCHORS INTO EXCAVATION AT DESIRED DISTANCE APPROPRIATE FOR TANK DIAMETER. USE SETS OF CONCRETE DEADMEN DEPENDING ON THE LENGTH OF TANK. ALWAYS PROVIDE SUFFICIENT CLEARANCE TO ALLOW THE DEADMEN ANCHOR POINT TO BE SET OUTSIDE OF THE TANK "SHADOW". SEE STRUCTURAL DRAWINGS FOR DETAILS.

# REINFORCED CONCRETE

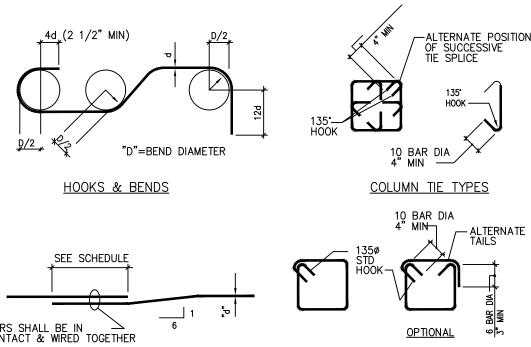
- 1. CEMENT TO BE TYPE V CONFORMING TO ASTM C-150.
- 2. AGGREGATES SHALL CONFORM TO ASTM C-33 FOR STRUCTURAL NORMAL-WEIGHT CONCRETE (1" MAXIMUM SIZE) AND ASTM C-330 FOR STRUCTURAL LIGHTWEIGHT CONCRETE
- 3. READY-MIX CONCRETE SHALL BE MIXED AND DELIVERED IN ACCORDANCE WITH ASTM C-94.
- 4. CONCRETE DESIGN MIXES SHALL BE IN ACCORDANCE WITH SECTION 1905 OF THE CALIFORNIA BUILDING CODE (CBC) OR APPROPRIATE LOCAL BUILDING CODES AND SHALL BE STAMPED AND SIGNED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE OF JURISDICTION.
- 5. ALL CONCRETE SHALL SATISFY THE MINIMUM STRENGTH REQUIREMENTS. THE MINIMUM ULTIMATE COMPRESSIVE STRENGTH (F'C) AT 28 DAYS SHALL BE AS FOLLOWS: - 2500 PSI SLABS ON GRADE
- 2500 PSI CONCRETE BEAMS \*
- USE fc'=4500 PSI, W/C=0.45, TYPE V CEMENT WHERE SULFATE IS SEVERE, CORROSIVE SOIL OCCURS.
- 6. SUBMIT HISTORICAL TEST DATA FOR ALL MIX DESIGNS. TEST DATA SHALL MEET THE REQUIREMENTS OF SEC. 1905.3 OF THE CBC OR APPROPRIATE LOCAL BUILDING CODES WHEN HISTORICAL DATA IS NOT AVAILABLE. THE REQUIRED CONCRETE COMPRESSIVE STRENGTH SHALL BE INCREASED IN ACCORDANCE WITH TABLE 19-A-7. THE CONCRETE SUPPLIER MUST BEAR THE TOTAL RESPONSIBILITY THAT THE MIX DESIGNS WILL ATTAIN THE REQUIRED STRENGTH AND SHRINKAGE CHARACTERISTICS. ACCEPTANCE OF MIX DESIGN WILL BE BASED ONLY ON CONFORMANCE OF SPECIFIED DESIGN STRENGTH AND DESIGN SLUMP.
- 7. THE MINIMUM CEMENT CONTENT PER CUBIC YARD OF CONCRETE SHALL BE AS FOLLOWS: - 5 1/4 SACKS FOR 2500 PSI STRENGTH
- 5 1/2 SACKS FOR 3000 PSI OR GREATER STRENGTH - WATER/CEMENT RATIO NOT TO EXCEED 0.45
- 8. THE MAXIMUM CONCRETE SLUMP SHALL BE 3" + / 1" For slabs on grade AND 4" +/- 1" FOR ALL OTHER WORK.
- 9. THE USE OF FLY ASH SHALL BE CONSIDERED TO IMPROVE CONCRETE WORKABILITY AND DURABILITY ONLY. FLY ASH SHALL NOT BE CONSIDERED TO REDUCE THE MINIMUM CEMENT CONTENT. FLY ASH SHALL NOT BE USED IN POST-TENSIONED CONCRETE. FLY ASH SHALL CONFORM TO ASTM C-618, CLASS F. THE AMOUNT OF FLY ASH USED SHALL NOT EXCEED 15% OF THE CEMENT CONTENT.
- 10. ADMIXTURES MAY BE USED WITH THE APPROVAL OF THE ENGINEER. ADMIXTURES USED TO INCREASE THE WORKABILITY OF THE CONCRETE SHALL NOT BE CONSIDERED TO REDUCE THE SPECIFIED MINIMUM CEMENT CONTENT. WHEN ADMIXTURES ARE UTILIZED, SUBMIT MANUFACTURER'S PRODUCT INFORMATION WITH THE CONCRETE MIX DESIGN. ADMIXTURES CONTAINING CALCIUM CHLORIDE SHALL NOT BE USED.
- 11. AIR ENTRAINMENT OF 4% SHALL BE PROVIDED FOR SLABS ON GRADE. AIR-ENTRAINING ADMIXTURES SHALL CONFORM TO ATM C-260.
- 12. PROJECTING CORNERS OF SLABS, BEAMS, WALLS, COLUMNS, ETC. SHALL BE FORMED WITH A 3/4" CHAMFER UNLESS OTHERWISE NOTED.
- 13. CONCRETE FORM TOLERANCES SHALL BE WITHIN THE STANDARDS SET FORTH IN ACI 117.
- 14. ALL REINFORCING STEEL, ANCHOR BOLTS, DOWELS AND OTHER INSERTS SHALL BE SECURED IN POSITION AND INSPECTED BY THE LOCAL BUILDING DEPARTMENT INSPECTOR PRIOR TO THE POURING OF ANY CONCRETE.
- 15. THE LOCATION OF ALL CONSTRUCTION JOINTS, NOT SPECIFICALLY INDICATED ON THE DRAWINGS, SHALL BE APPROVED BY THE ENGINEER PRIOR TO PLACING REINFORCING STEEL.
- 16. REFER TO AND VERIFY WITH ARCHITECTURAL DRAWINGS ANY MOULDS, GROOVES, REVEALS, SCUPPERS, ORNAMENTS, CLIPS OR TEXTURES REQUIRED TO BE CAST INTO CONCRETE AND FOR LOCATION AND EXTENT OF DEPRESSIONS, CURBS, AND RAMPS
- 17. WHEN POURING AN ANTI-FLOTATION COLLAR, THE SLAB CAN BE POURED TO ALLOW A TROUGH AROUND THE INLET AND OUTLET PIPES.
- 18. PIPE MAY PASS THROUGH STRUCTURAL CONCRETE IN SLEEVES, BUT SHALL NOT BE EMBEDDED THEREIN. SLEEVES SHALL BE WRAPPED WITH EXPANSION JOINT FILLER MATERIAL TO ALLOW CONCRETE TO CURE WITHOUT RESTRAINT. PIPES OR CONDUITS EXCEEDING ONE-THIRD THE SLAB OR WALL THICKNESS SHALL NOT BE STRUCTURAL AND/OR ELECTRICAL DRAWINGS FOR LOCATION OF SLEEVES, ACCESSORIES, ETC.
- 19. CONCRETE FLOOR SLABS VARIATION FROM LEVEL TO BE NOT MORE THAN 1/8" IN TEN FEET.
- 20. DRY PACK: MIX, IN PROPORTIONS BY VOLUME, ONE PART CEMENT TO TWO-AND-ON-HALF PARTS FINE AGGREGATE. SCREENING OUT MATERIALS RETAINED ON NO. 4 SIEVE. MIX WITH WATER TO CONSISTENCY SUCH THAT, WHEN BALL OF MIXTURE IS COMPRESSED IN HAND, BALL WILL MAINTAIN SHAPE, SHOWING FINGER MARKS, BUT NOT SHOWING SURFACE WATER.

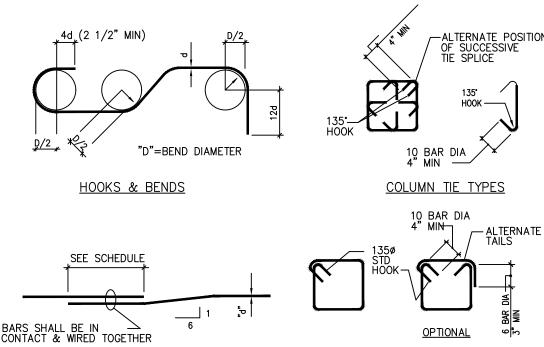
### DIMENSIONS

- 1. DIMENSIONS SHALL BE DEFINED TO INCLUDE BOTH HORIZONTAL DIMENSIONS AND VERTICAL DIMENSIONS (ELEVATIONS). 2. WRITTEN DIMENSIONS SHALL SUPERCEDE SCALED DRAWINGS.
- 3. SEE MANUFACTURE DRAWINGS FOR DIMENSIONS NOT NOTED ON STRUCTURAL DRAWINGS
- TIE DOWN
- 1. GEOLOGIST OR GEOTECHNICAL ENGINEER OR OTHER QUALIFIED PROFESSIONAL SHALL DETERMINE IF TIE DOWNS ARE REQUIRED AND IF CORROSIVE PROTECTION MATERIALS (GALVANIZED, STAINLESS STEEL OR EPOXY COATING) ARE NEEDED.
- 2. IF APPLICABLE, 2 STAINLESS STEEL (OR EQUIVALENT) STRAPS WILL BE USED, AS DETAILED ON SUBSEQUENT DRAWINGS.
- 3. AS WITH ANY DEADMAN, WATER-TABLE HEIGHT AND BURIAL DEPTH MUST BE CONSIDERED IN SIZING THE DEADMAN SYSTEM.
- 4. ALWAYS PROVIDE SUFFICIENT CLEARANCE TO ALLOW THE DEADMEN ANCHOR POINT TO BE SET OUTSIDE OF THE TANK "SHADOW".

## REINFORCING STEEL

- 2. ALL WELDED REBAR SHALL CONFORM WITH ASTM A706.
- EDITION.
- LATEST EDITION.
- 6. LAPS AT BAR SPLICES SHALL BE PER LAP SPLICE DETAILS.
- BONDING
- ENGINEER. BENDS SHALL BE MADE COLD.
- BARS SPLICED OVER THE SUPPORTS.
- CONCRETE CLEAR COVER, UNLESS NOTED OTHERWISE: FOOTINGS (CONCRETE DEPOSITED AGAINST EARTH)... CONCRETE REINFORCING (INCLUDING COLUMN TIES... BEAMS AND GIRDERS ... SLAB (#11 OR SMALLER).
- 12. ALL REINFORCING STEEL, ANCHOR BOLTS, DOWELS, AND INSERTS SHALL BE WELL
- 13. UNLESS OTHERWISE NOTED IN DETAILS, FURNISH #3 SPACER TIES AT REINFORCING IN PLACE.





LAP SPLICE

BEND DIAMETER SCHEDULE				
BAR SIZE	BEND DIAMETER			
#3 THRU #5	D = 4d			
#6 THRU #8 D = 6d				
#9 THRU #11	D = 8d			
#14 THRU #18	D = 10d			

3000 PSI MIN. CONCRETE					
	REINFORCING BAR LAP SPLICE				
BAR #	MINIMUM CLEAR BAR SPACING	LAP SPLICE L			
	(BAR DIAMETER)	* TOP BARS			
#4	MORE THAN 2	30			
#5	MORE THAN 2	37			
#6	MORE THAN 2	44			
#7	MORE THAN 2	81			
#8	MORE THAN 2	93			
#9	MORE THAN 2	104			
<b>#</b> 10	MORE THAN 2	116			
#11	MORE THAN 2	127			

\* HORIZONTAL REINFORCEMENT SO PLACED THAT MORE THAN 12" OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE DEVELOPMENT LENGTH OR SPLICE

1. BAR REINFORCEMENT SHALL CONFORM WITH ASTM A615, GRADE 60 UNO.

3. WELDING OF REINFORCING STEEL SHALL CONFORM WITH AWS D1.4.-92 OR LATEST

4. WELDED WIRE FABRIC SHALL CONFORM WITH ASTM A185 GRADE 65 FOR PLAIN WIRE AND ASTM A497 GRADE 80 FOR DEFORMED WIRE. ALL MESH SHALL HAVE A MINIMUM SIDE AND END LAP OF 1 1/2" MESH OR 9", WHICHEVER IS GREATER. 5. REINFORCING DETAILING, BENDING AND PLACING SHALL BE IN ACCORDANCE WITH CONCRETE REINFORCING STEEL INSTITUTE "MANUAL OF STANDARD PRACTICE"

7. VERTICAL BARS IN WALLS SHALL BE ACCURATELY POSITIONED AT THE CENTER OF WALL. UNLESS OTHERWISE NOTED ON DETAILS, & SHALL BE TIED IN POSITION AT TOP AND BOTTOM AND AT INTERVALS NOT EXCEEDING 192 BAR DIA.

8. BARS SHALL BE CLEAN OF MUD, OIL OR OTHER COATINGS LIKELY TO IMPAIR

9. REINFORCING BARS SHALL NOT BE RE-BENT WITHOUT APPROVAL OF STRUCTURAL

10. UNLESS SHOWN OTHERWISE, REINFORCING BARS IN CONTINUOUS CONCRETE BEAMS AND SPANDRELS SHALL HAVE TOP BARS SPLICED AT THE MIDSPAN AND BOTTOM

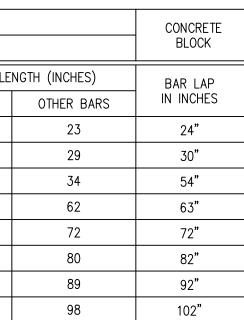
11. REINFORCING STEEL SHALL BE PROVIDED WITH THE FLOWING AMOUNTS OF CONCRETE SURFACE (FORMED) EXPOSED TO EARTH OR WEATHER .... 2" ..1 1/2"

> ..1 1/2' ..3/4 "BOTTOM TOP

SECURED IN POSITION PRIOR TO PLACING CONCRETE OR GROUT.

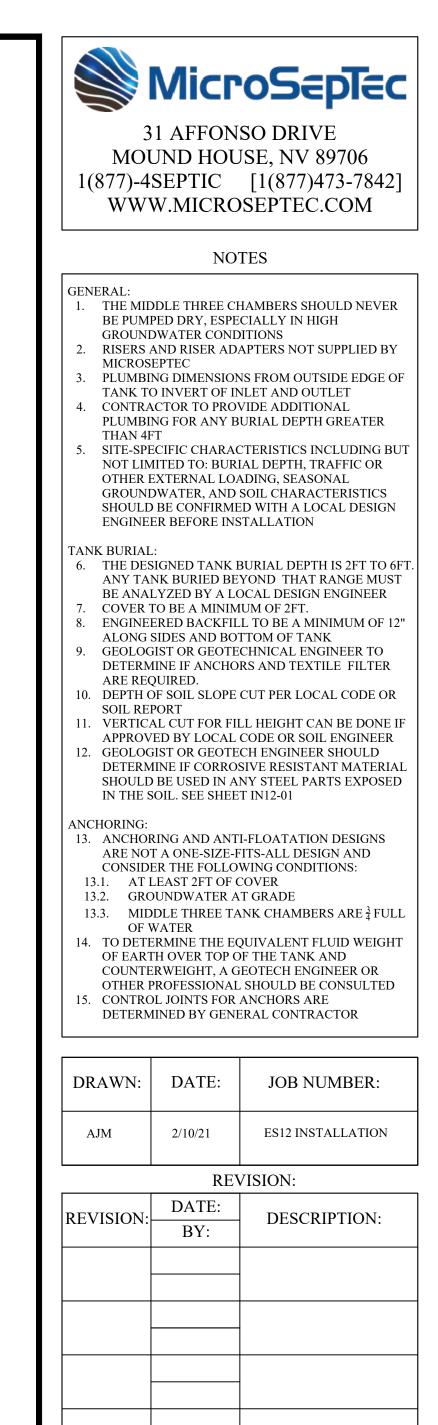
APPROXIMATELY 2"-6" ON CENTER IN ALL BEAMS AND FOOTINGS TO SECURE

**BEAM STIRRUPS** NOTE: FOR SIZE AND SPACING OF ALL TIES ANI STIRRUPS REFER TO FOOTING SCHEDULE AND/OR DETAILS.



S C A L E

NONE



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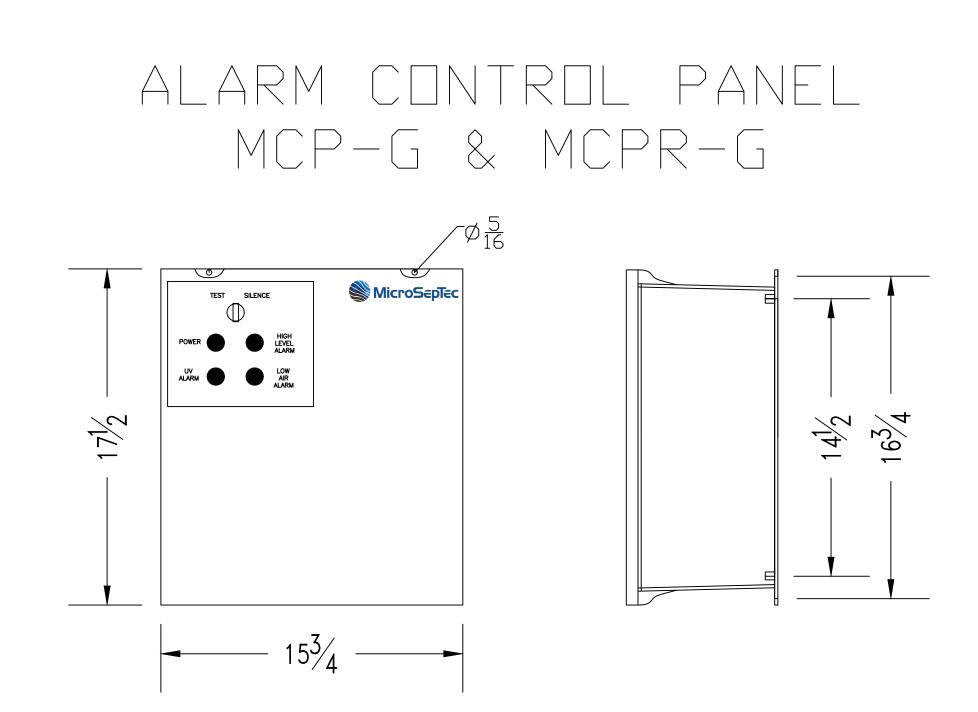
ES 12 INSTALLATION DRAWING

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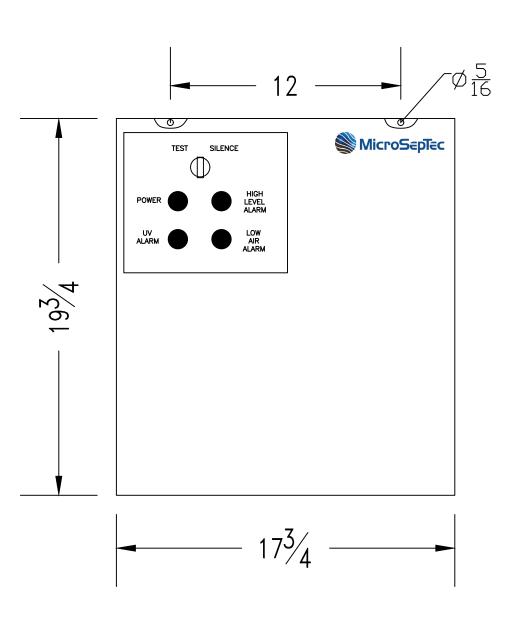
### GENERAL NOTES

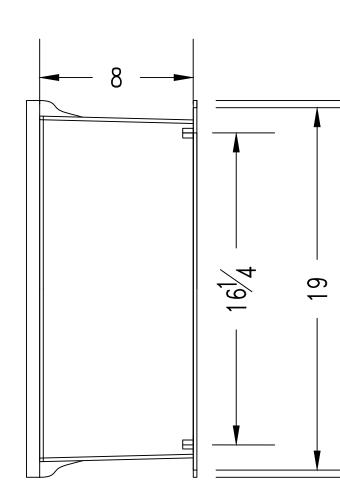
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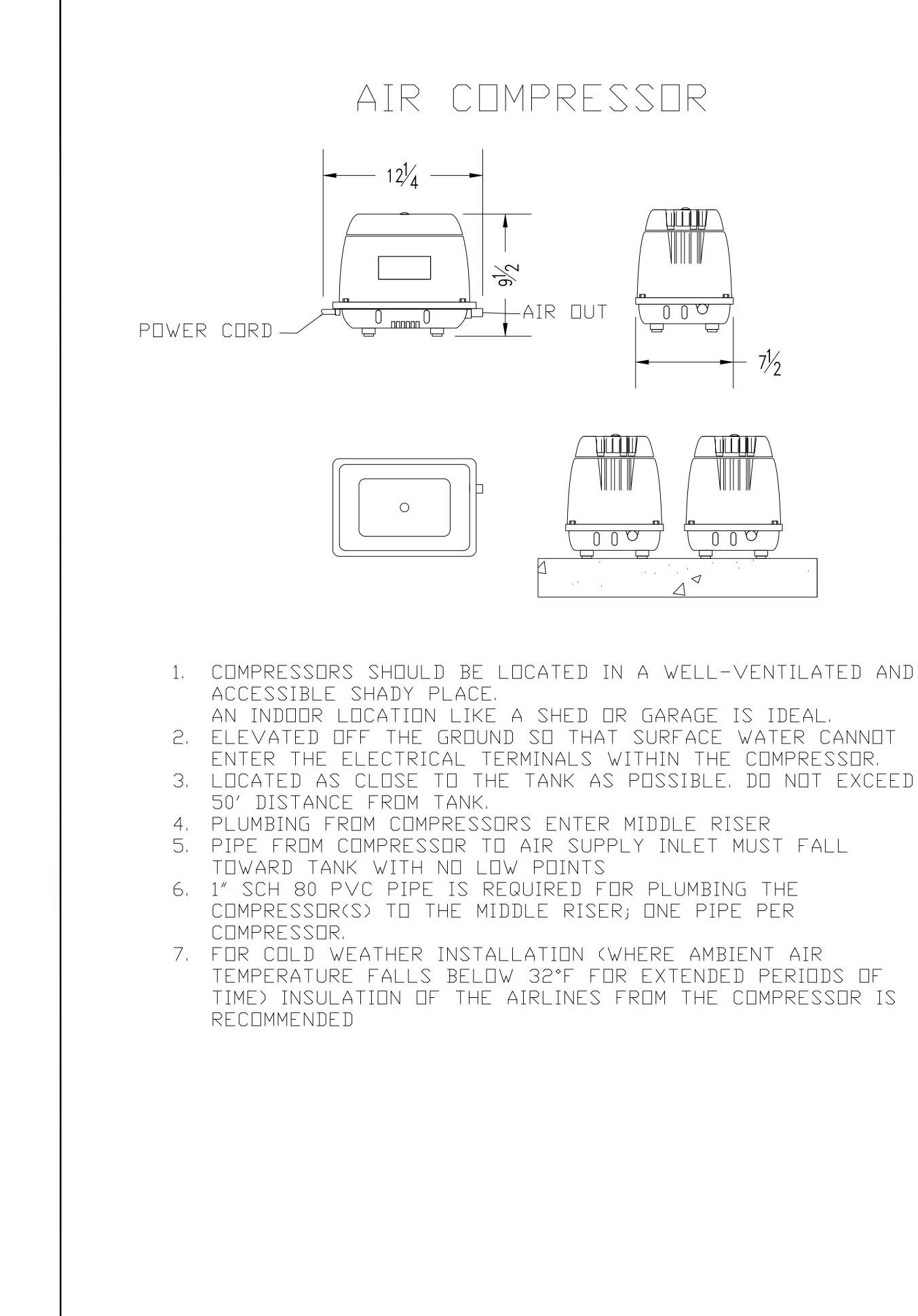
ALARM CONTROL PANEL MCPR-1DP & MCPR-2DP





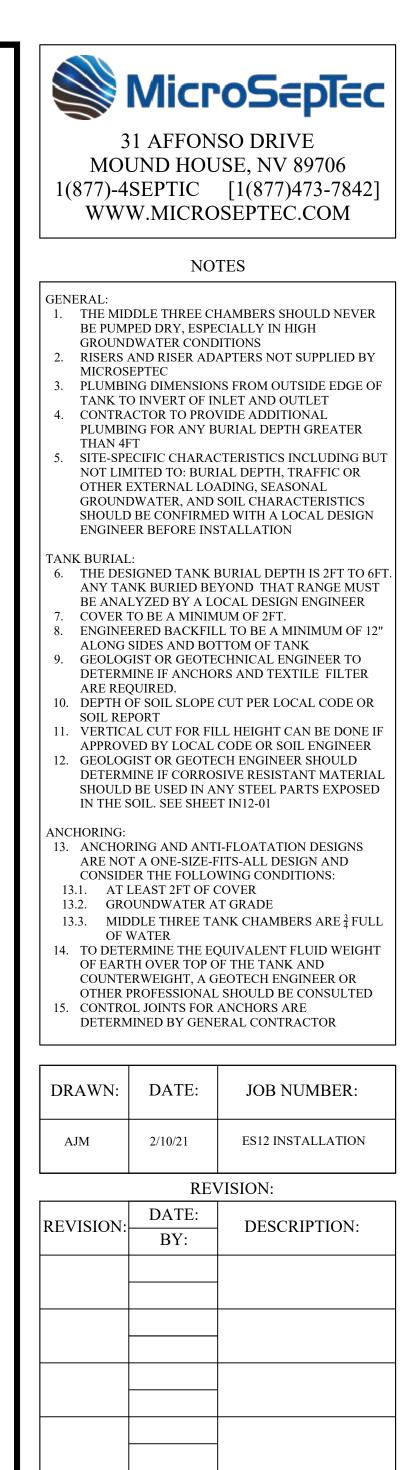
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ALARM CONTROL PANEL



S C A L E

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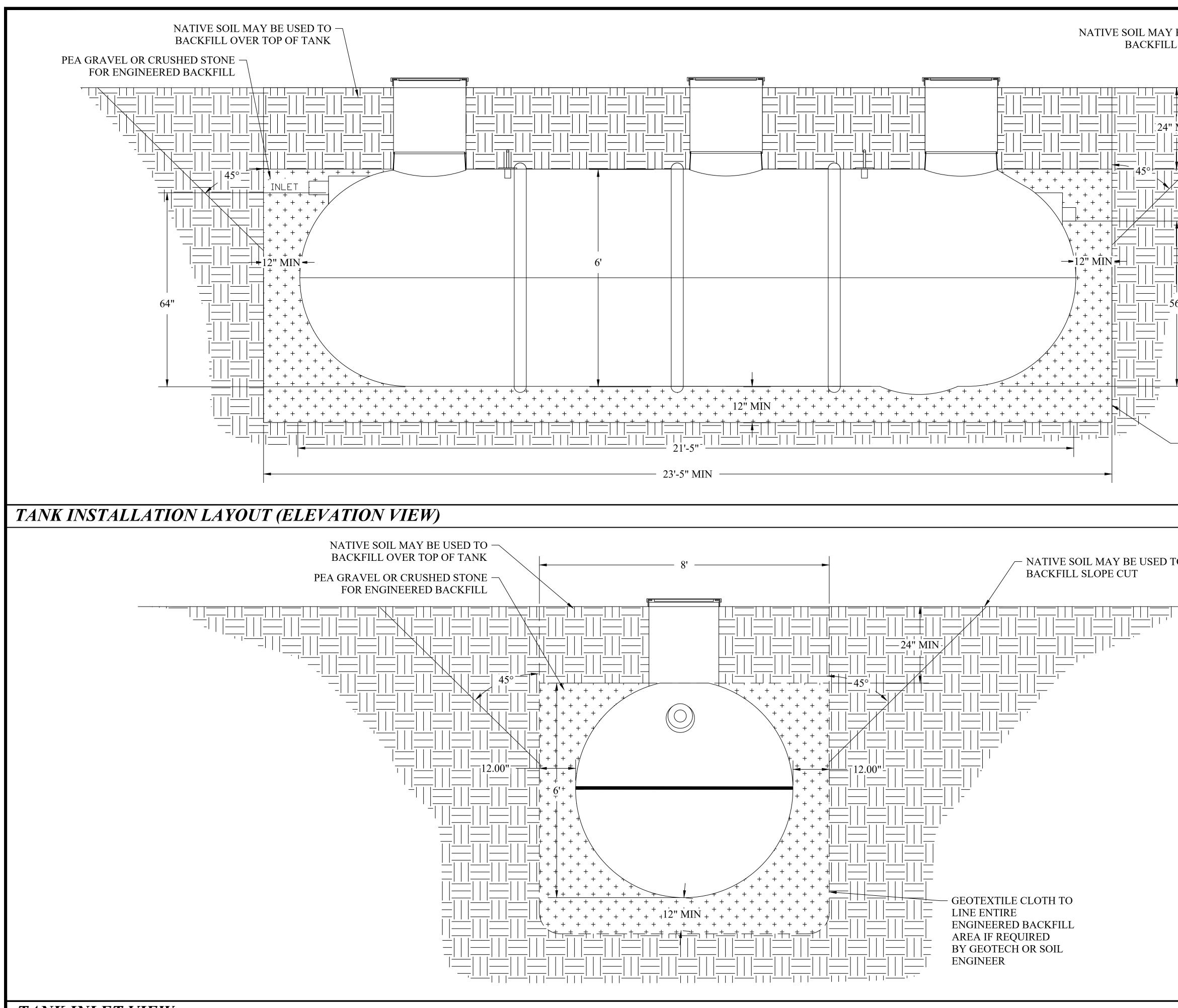
ES 12 INSTALLATION DRAWING

SHEET TITLE:

ALARM CONTROL PANEL AND AIR COMPRESSOR DETAIL

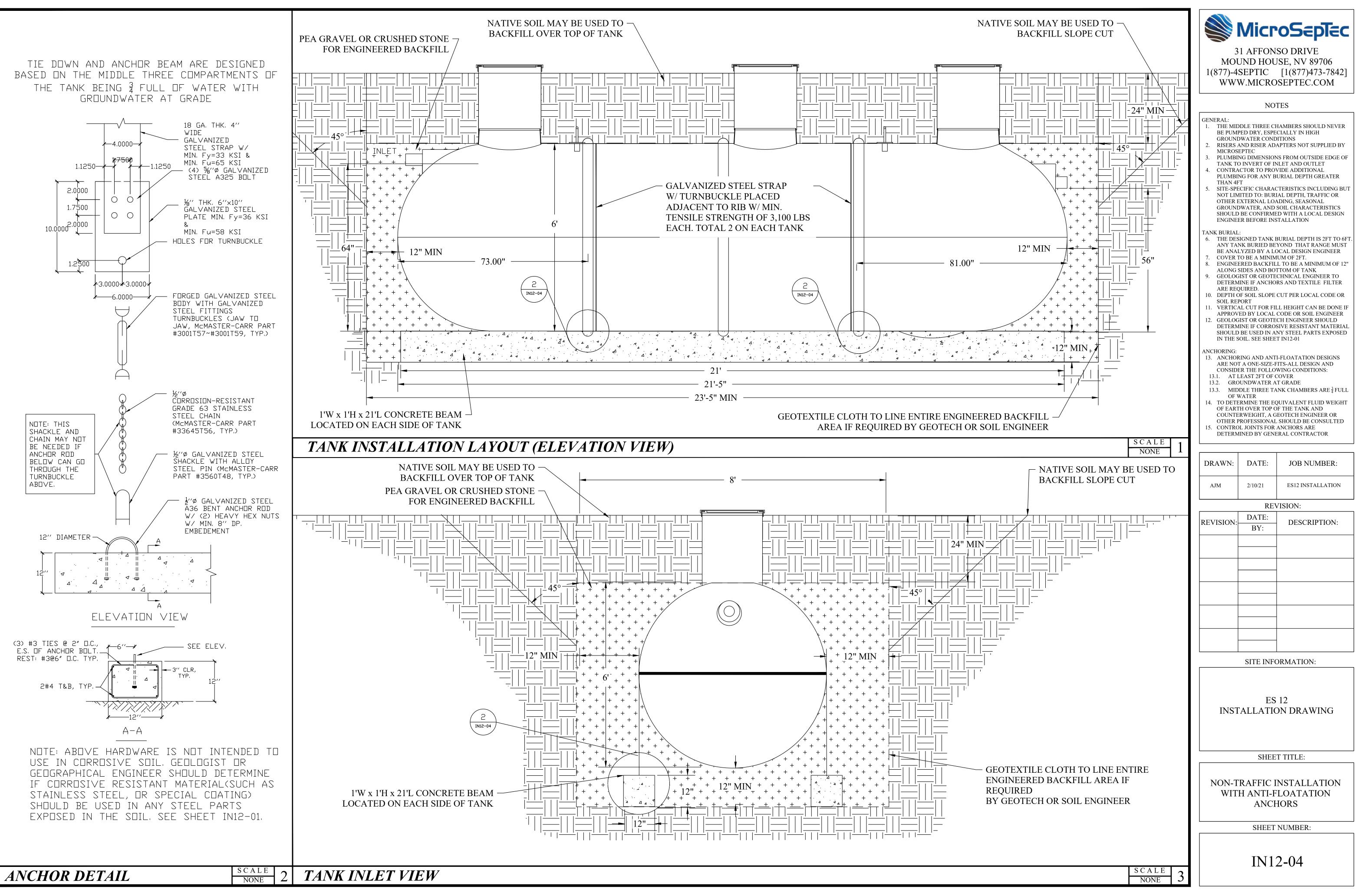
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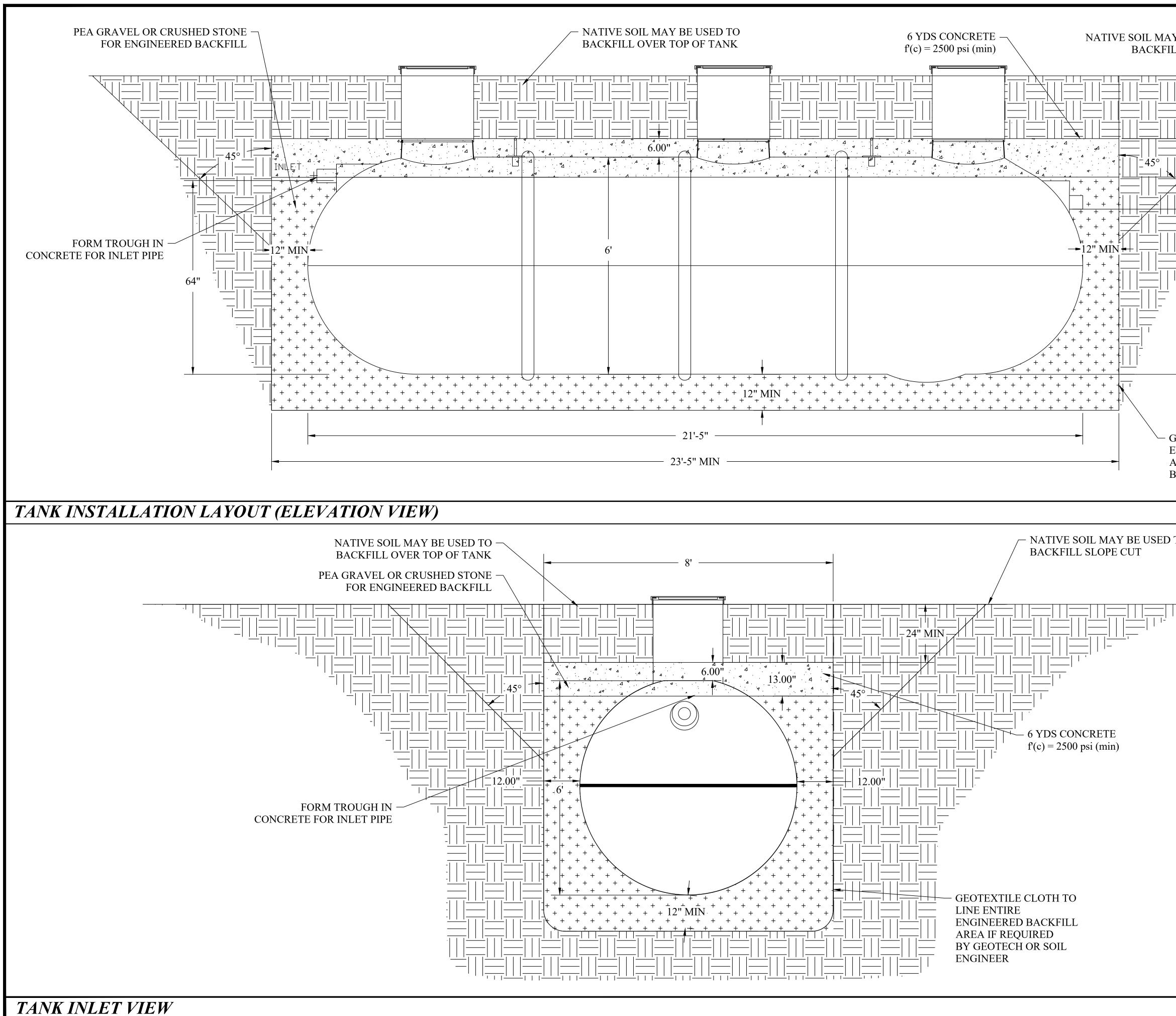
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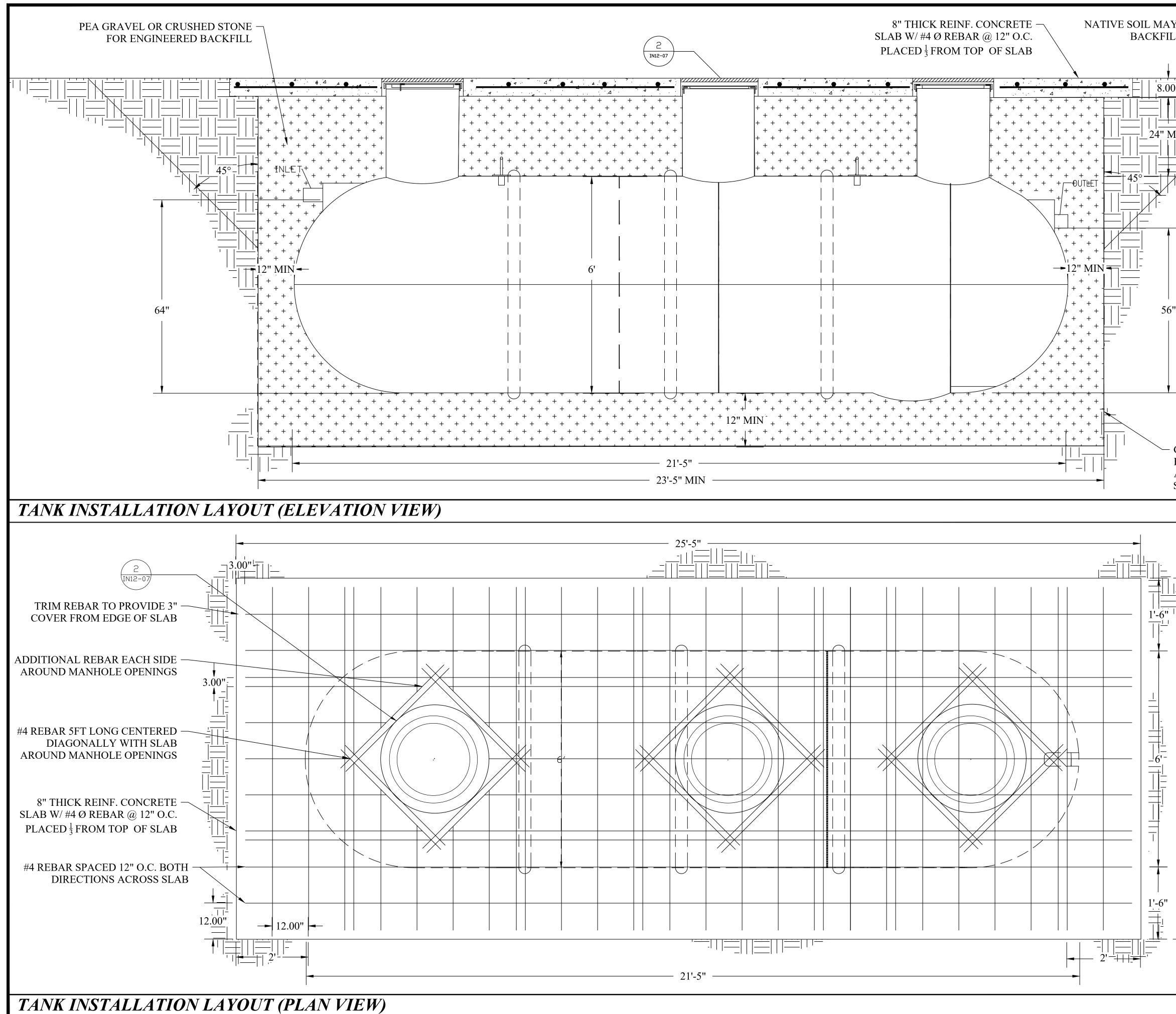
TANK INLET VIEW

BE USED TO L SLOPE CUT		3 MOU 1(877)-4	1 AFFON: JND HOU SEPTIC	<b>OSEPTEC</b> SO DRIVE SE, NV 89706 [1(877)473-7842] SEPTEC.COM
			NO	
		BE PUMI GROUNE 2. RISERS A MICROS 3. PLUMBII TANK TO 4. CONTRA PLUMBII THAN 4F 5. SITE-SPE NOT LIM OTHER E GROUNE SHOULD	DLE THREE CH PED DRY, ESPE OWATER COND AND RISER ADA EPTEC NG DIMENSION O INVERT OF IN CTOR TO PROV NG FOR ANY BU T CIFIC CHARAC IITED TO: BURI EXTERNAL LOA OWATER, AND S	IAMBERS SHOULD NEVER CIALLY IN HIGH ITIONS APTERS NOT SUPPLIED BY IS FROM OUTSIDE EDGE OF ILET AND OUTLET VIDE ADDITIONAL URIAL DEPTH GREATER TERISTICS INCLUDING BU' AL DEPTH, TRAFFIC OR IDING, SEASONAL SOIL CHARACTERISTICS D WITH A LOCAL DESIGN
56"		TANK BURIAL6.THE DES ANY TAI BE ANAI7.COVER T8.ENGINEI ALONG S9.GEOLOG DETERM ARE REQ10.DEPTH C SOIL REI11.VERTICA APPROV12.GEOLOG DETERM SHOULD IN THE SANCHORING: 13.ANCHORING:	: IGNED TANK E NK BURIED BEY LYZED BY A LC TO BE A MINIM ERED BACKFIL SIDES AND BOT IST OR GEOTE UIRE IF ANCHOI OUIRED. OF SOIL SLOPE O ORT AL CUT FOR FIL ED BY LOCAL O IST OR GEOTE UINE IF CORROS BE USED IN AN OIL. SEE SHEET	BURIAL DEPTH IS 2FT TO 6F YOND THAT RANGE MUST DCAL DESIGN ENGINEER UM OF 2FT. L TO BE A MINIMUM OF 12' 'TOM OF TANK CHNICAL ENGINEER TO RS AND TEXTILE FILTER CUT PER LOCAL CODE OR LL HEIGHT CAN BE DONE IF CODE OR SOIL ENGINEER CH ENGINEER SHOULD SIVE RESISTANT MATERIAI NY STEEL PARTS EXPOSED F IN12-01
– GEOTEXTILE CLOTH TO LINE ENTIRE ENGINEERED BACKFILL AREA IF REQUIRED BY GEOTECH SOIL ENGINEER	F .	CONSIDE 13.1. AT I 13.2. GRC 13.3. MID OF V 14. TO DETE OF EART COUNTE OTHER P 15. CONTRO	ER THE FOLLOW LEAST 2FT OF C DUNDWATER A DLE THREE TA VATER ERMINE THE EQ TH OVER TOP O RWEIGHT, A G PROFESSIONAL D JOINTS FOR A	T GRADE NK CHAMBERS ARE <sup>3</sup> / <sub>4</sub> FULL UIVALENT FLUID WEIGHT F THE TANK AND EOTECH ENGINEER OR SHOULD BE CONSULTED
NON		DRAWN:	DATE:	JOB NUMBER:
ТО		AJM	2/10/21	ES12 INSTALLATION
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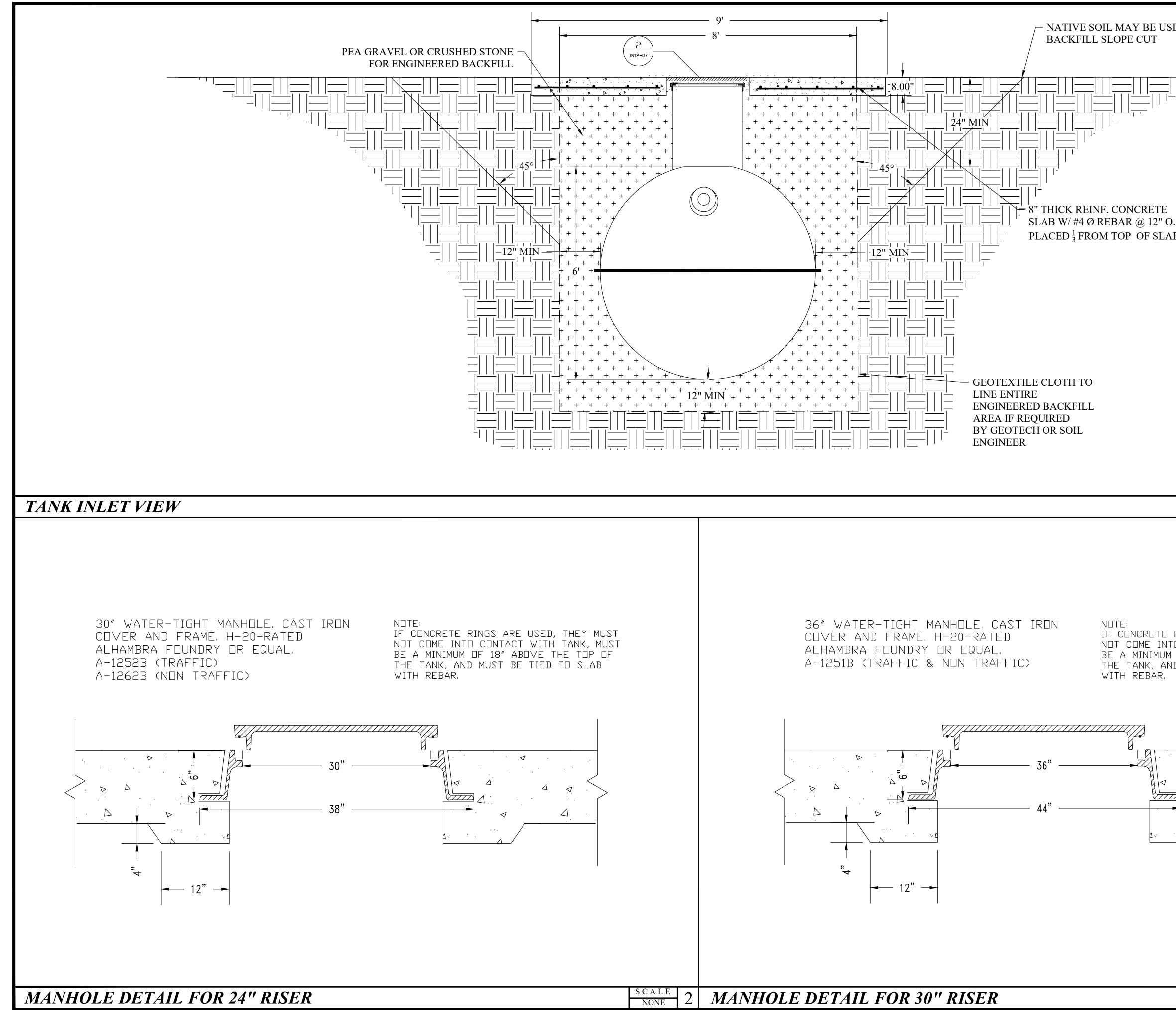




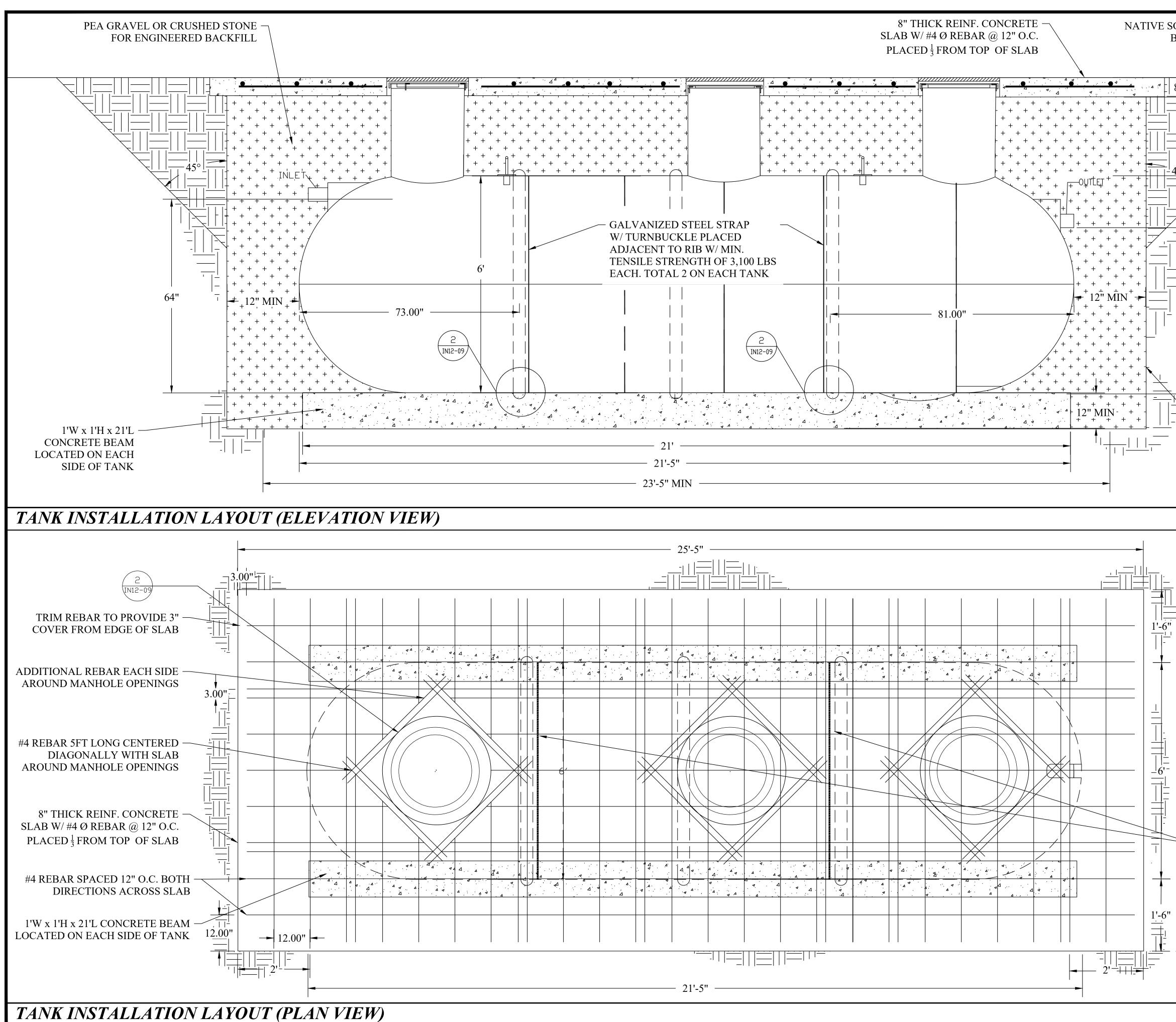
AY BE USED TO -			<b>OSEPTEC</b> SO DRIVE
	MOU 1(877)-45	JND HOU SEPTIC	SO DRIVE JSE, NV 89706 [1(877)473-7842] DSEPTEC.COM
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ТО	AJM	2/10/21	ES12 INSTALLATION
		REV	VISION:
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			NSTALLATION LOATATION LAR
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SCALE NONE 2		IN1	2-05



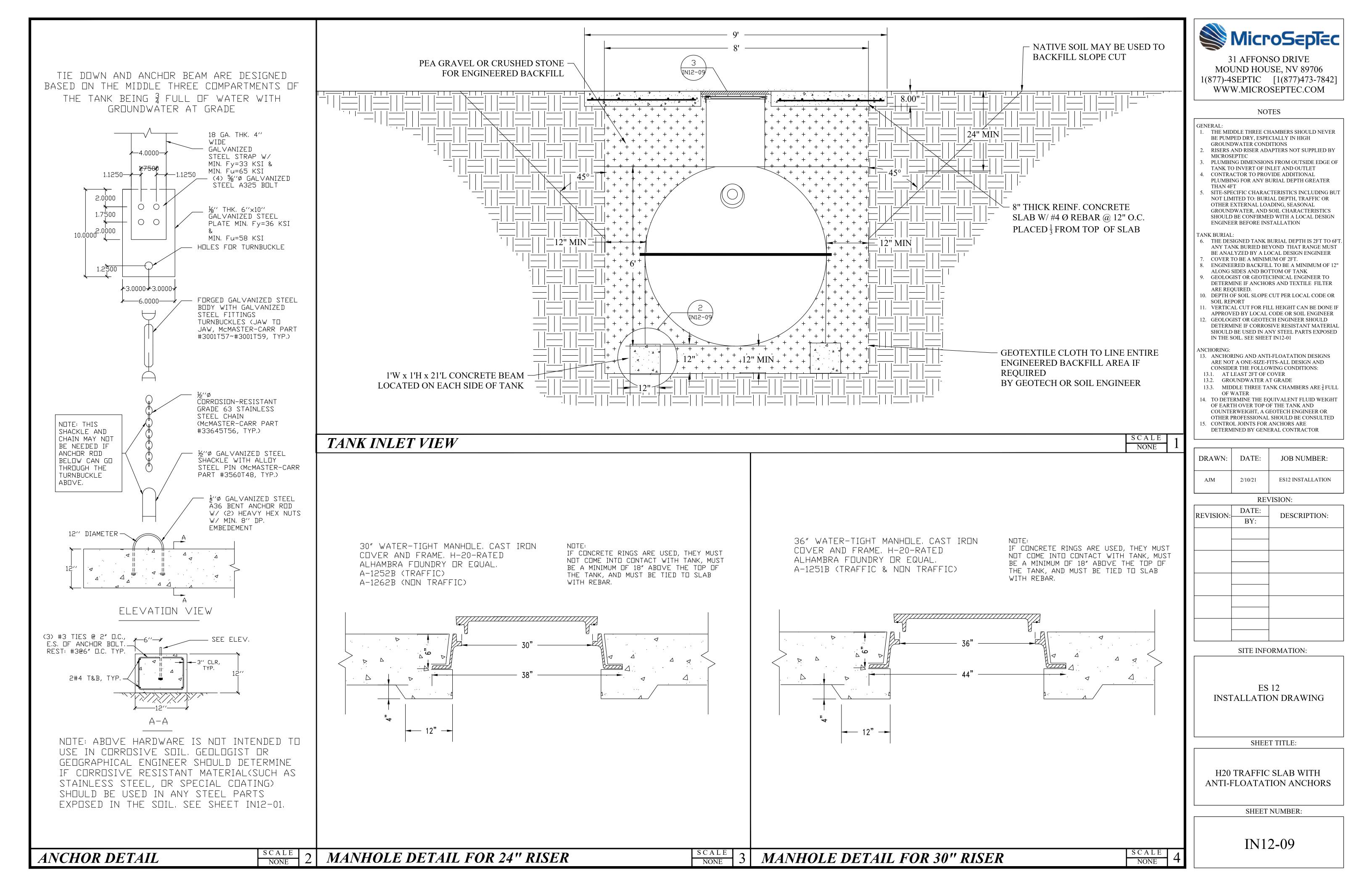
BE USED TO L SLOPE CUT	3 MOU 1(877)-4	1 AFFON UND HOU SEPTIC	<b>SO DRIVE</b> JSE, NV 89706 [1(877)473-7842] DSEPTEC.COM
		NO	TES
	BE PUMI GROUNI 2. RISERS A MICROS 3. PLUMBI TANK TO 4. CONTRA PLUMBI THAN 4F 5. SITE-SPF NOT LIM OTHER F GROUNI SHOULD	PED DRY, ESPE DWATER CONE AND RISER AD EPTEC NG DIMENSION O INVERT OF IN ACTOR TO PRO NG FOR ANY E T ECIFIC CHARAG MITED TO: BUR EXTERNAL LO DWATER, AND	APTERS NOT SUPPLIED BY NS FROM OUTSIDE EDGE OF NLET AND OUTLET VIDE ADDITIONAL SURIAL DEPTH GREATER CTERISTICS INCLUDING BUT IAL DEPTH, TRAFFIC OR ADING, SEASONAL SOIL CHARACTERISTICS ED WITH A LOCAL DESIGN
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	AJM	2/10/21	ES12 INSTALLATION
<u>NOTES:</u>		RE	VISION:
<ol> <li>CONTROL JOINTS DETERMINED BY CONTRACTOR</li> <li>3" GAP MUST REMAIN BETWEEN CONCRETE SLAB AND FIBERGLASS RISERS</li> </ol>	REVISION:	DATE: BY:	DESCRIPTION:
9'		SITE INF	DRMATION:
	INST	TALLATI(	12 ON DRAWING
	SHEET TITLE: H20 TRAFFIC SLAB INSTALLATION		
		SHEET	NUMBER:
SCALE NONE 2		IN1	2-06

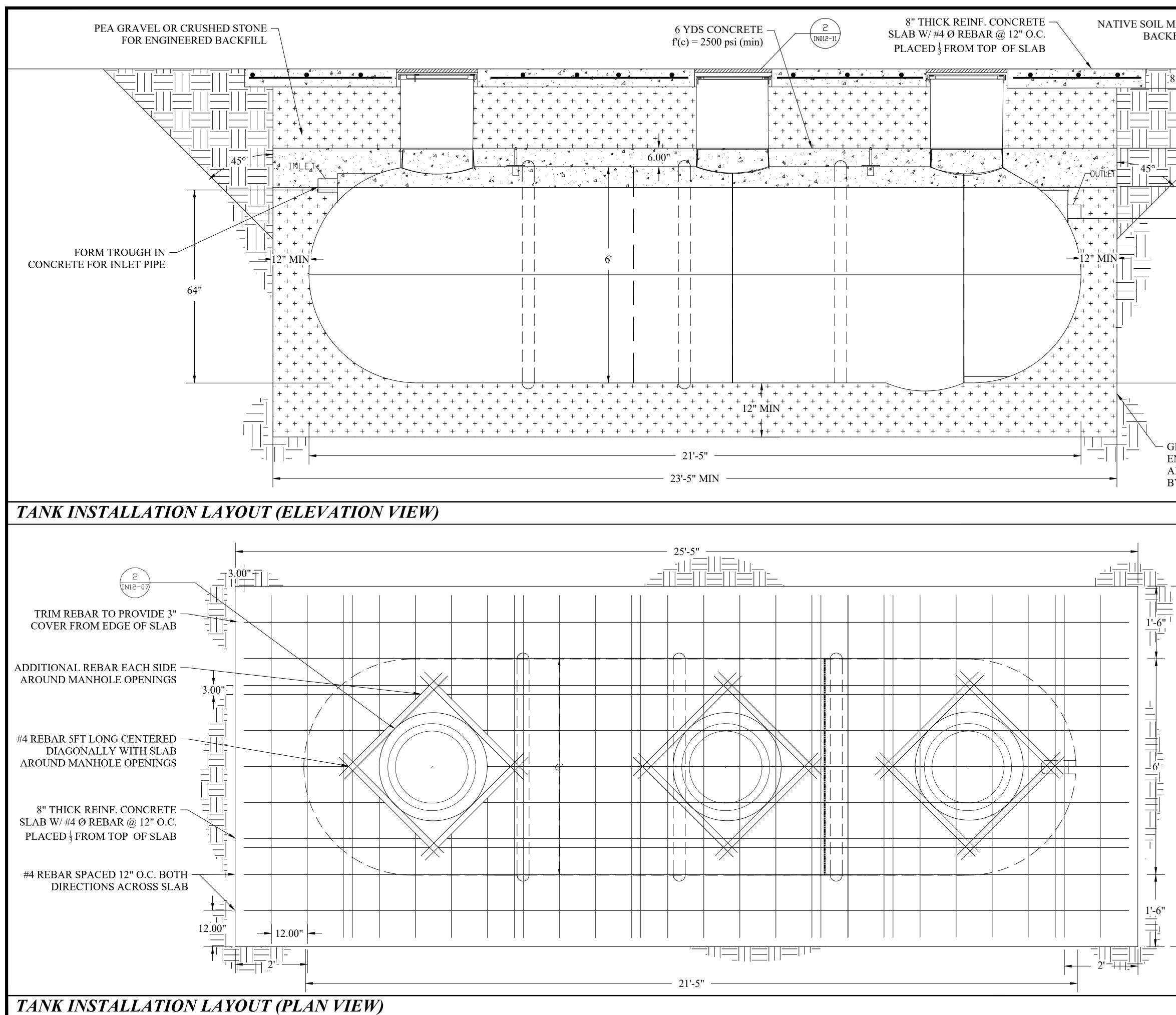


ED TO	3 MOI	1 AFFON UND HOU	<b>SO DRIVE</b> JSE, NV 89706 [1(877)473-7842]
			SEPTEC.COM
р.С. В	BE PUM GROUNI 2. RISERS MICROS 3. PLUMBI TANK T 4. CONTRA PLUMBI THAN 41 5. SITE-SPI NOT LIN OTHER 1 GROUNI SHOULE ENGINE TANK BURIAL 6. THE DES	PED DRY, ESPE DWATER COND AND RISER AD. EPTEC NG DIMENSION O INVERT OF IN ACTOR TO PROV NG FOR ANY B ST ECIFIC CHARAC (ITED TO: BUR) EXTERNAL LOA DWATER, AND D BE CONFIRME ER BEFORE INS .: SIGNED TANK F	HAMBERS SHOULD NEVER CIALLY IN HIGH DITIONS APTERS NOT SUPPLIED BY NS FROM OUTSIDE EDGE OF NLET AND OUTLET VIDE ADDITIONAL URIAL DEPTH GREATER CTERISTICS INCLUDING BUT IAL DEPTH, TRAFFIC OR ADING, SEASONAL SOIL CHARACTERISTICS ED WITH A LOCAL DESIGN
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SCALE NONE 1	DRAWN:	DATE:	JOB NUMBER:
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RINGS ARE USED, THEY MUST O CONTACT WITH TANK, MUST OF 18" ABOVE THE TOP OF D MUST BE TIED TO SLAB			
<1		SITE INFO	ORMATION:
	INST	TALLATIO	12 DN DRAWING
		SHEE	T TITLE:
	I	INSTAL	
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SCALE NONE 3		IN12	2-07

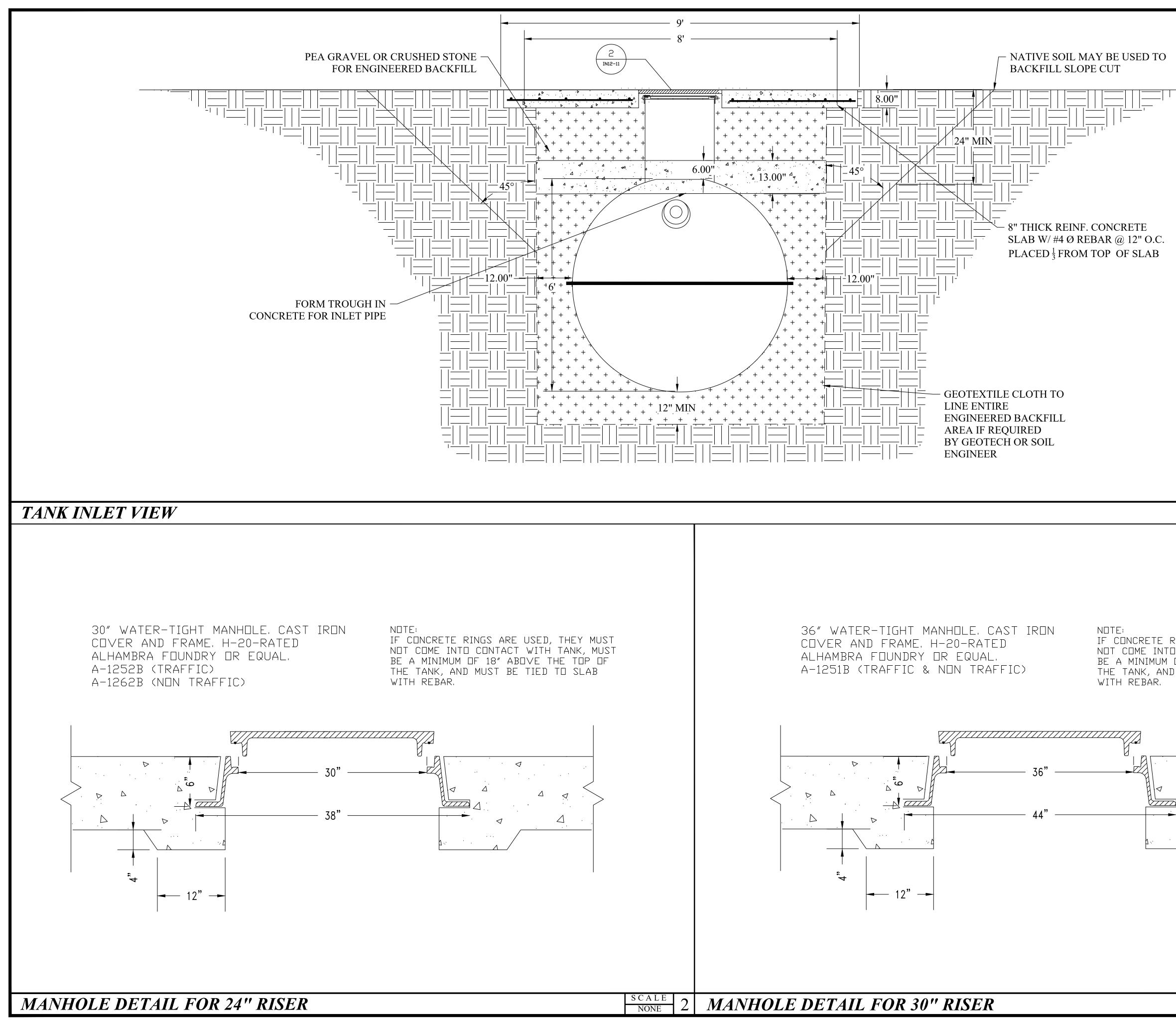


SOIL MAY BE USED TO – BACKFILL SLOPE CUT			oSepTec
	MOU 1(877)-4	UND HOU SEPTIC	SO DRIVE JSE, NV 89706 [1(877)473-7842] DSEPTEC.COM
		NO	TES
$\frac{1}{1} = \frac{24"}{1} = \frac{1}{1}$	BE PUMI GROUNI 2. RISERS A MICROS 3. PLUMBI TANK TO 4. CONTRA PLUMBI THAN 4F 5. SITE-SPF NOT LIM OTHER F GROUNI SHOULD	PED DRY, ESPE DWATER CONE AND RISER AD EPTEC NG DIMENSION O INVERT OF IN ACTOR TO PRO NG FOR ANY B T ECIFIC CHARAG MITED TO: BUR EXTERNAL LO DWATER, AND	APTERS NOT SUPPLIED BY NS FROM OUTSIDE EDGE OF NLET AND OUTLET VIDE ADDITIONAL SURIAL DEPTH GREATER CTERISTICS INCLUDING BUT IAL DEPTH, TRAFFIC OR ADING, SEASONAL SOIL CHARACTERISTICS ED WITH A LOCAL DESIGN
56"	TANK BURIAL6.THE DES ANY TA BE ANAL7.COVER T8.ENGINEL ALONG T9.GEOLOC DETERM ARE REC10.DEPTH C SOIL REL11.VERTICA APPROV12.GEOLOC DETERM SHOULD	.: SIGNED TANK I NK BURIED BE LYZED BY A LO TO BE A MINIM ERED BACKFII SIDES AND BO SIST OR GEOTE INE IF ANCHO QUIRED. DF SOIL SLOPE PORT AL CUT FOR FI ED BY LOCAL SIST OR GEOTE INE IF CORRO	BURIAL DEPTH IS 2FT TO 6FT. YOND THAT RANGE MUST OCAL DESIGN ENGINEER IUM OF 2FT. L TO BE A MINIMUM OF 12" TTOM OF TANK CCHNICAL ENGINEER TO RS AND TEXTILE FILTER CUT PER LOCAL CODE OR LL HEIGHT CAN BE DONE IF CODE OR SOIL ENGINEER ICH ENGINEER SHOULD SIVE RESISTANT MATERIAL NY STEEL PARTS EXPOSED
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	AJM	2/10/21	ES12 INSTALLATION
- <u>NOTES:</u>		REV DATE:	VISION:
1.       CONTROL JOINTS         DETERMINED BY         CONTRACTOR         2.       3" GAP MUST REMAIN         BETWEEN CONCRETE         SLAB AND FIBERGLASS         RISERS	REVISION:	BY:	DESCRIPTION:
KISEKS			
9'		SITE INFO	ORMATION:
GALVANIZED STEEL STRAP W/ TURNBUCKLE PLACED ADJACENT TO RIB W/ MIN.	INST		12 ON DRAWING
TENSILE STRENGTH OF 3,100 LBS		SHEE	T TITLE:
EACH. TOTAL 2 ON EACH TANK			SLAB WITH TION ANCHORS
		SHEET	NUMBER:
SCALE 2		IN1	2-08
NONE $\angle$			l





IAY BE USED TO FILL SLOPE CUT		3 MOU 1(877)-4	1 AFFON UND HOU SEPTIC	<b>SO DRIVE</b> JSE, NV 89706 [1(877)473-7842]
$\frac{\left 1\right ^{\frac{1}{1}}}{1} \left 1\right ^{\frac{1}{1}} \left 1\right ^{\frac{1}{1}} \left 1\right ^{\frac{1}{1}}$		WW		DSEPTEC.COM
13.00"		BE PUMI GROUNI 2. RISERS A MICROS 3. PLUMBI TANK TO 4. CONTRA PLUMBI THAN 4F 5. SITE-SPF NOT LIM OTHER F GROUNI	DDLE THREE C PED DRY, ESPE DWATER CONI AND RISER AD EPTEC NG DIMENSIOI O INVERT OF II CTOR TO PRO NG FOR ANY E T ECIFIC CHARAG MITED TO: BUR EXTERNAL LO. DWATER, AND	HAMBERS SHOULD NEVER ECIALLY IN HIGH
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NONE		DRAWN:	DATE:	JOB NUMBER:
		AJM	2/10/21	ES12 INSTALLATION
NOTES: 1. CONTROL JOINTS DETERMINED BY CONTRACTOR 2. 3" GAP MUST REMAIN BETWEEN CONCRETE SLAB AND FIBERGLASS RISERS		REVISION:	RE DATE: BY:	VISION: DESCRIPTION:
9'			SITE INF	ORMATION:
		INST	TALLATI(	T TITLE:
			FLOATA	C SLAB WITH TION COLLAR
SCALE NONE 2	2			2-10



	3 MOU 1(877)-4	1 AFFON JND HOU SEPTIC	SO DRIVE SE, NV 89706 [1(877)473-7842] SEPTEC.COM
	L	NO	TES
	BE PUMI GROUNE 2. RISERS A MICROS 3. PLUMBI TANK TO 4. CONTRA PLUMBI THAN 4F 5. SITE-SPE NOT LIM OTHER E GROUNE SHOULD	DLE THREE CI PED DRY, ESPE DWATER COND AND RISER AD. EPTEC NG DIMENSION D INVERT OF IN CTOR TO PRO' NG FOR ANY B T SCIFIC CHARAG IITED TO: BUR EXTERNAL LOAD DWATER, AND	HAMBERS SHOULD NEVER CIALLY IN HIGH MITIONS APTERS NOT SUPPLIED BY AS FROM OUTSIDE EDGE OF VLET AND OUTLET VIDE ADDITIONAL URIAL DEPTH GREATER CTERISTICS INCLUDING BUT AL DEPTH, TRAFFIC OR ADING, SEASONAL SOIL CHARACTERISTICS ED WITH A LOCAL DESIGN
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RINGS ARE USED, THEY MUST D CONTACT WITH TANK, MUST OF 18" ABOVE THE TOP OF D MUST BE TIED TO SLAB			
		SITE INFO	DRMATION:
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			SLAB WITH TION COLLAR
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SCALE NONE 3		IN1	2-11