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 DIAMET	ER 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					
	MINIMUM CLEAR	LAP SPLICE I			
BAR #	(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			
# 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

10 W	AIRPAR	- K VISTA BLVD
	DAYTON	NV 89403
1(877)-4 WW	SEPTIC W MICRC	[1(877)473-78 SEPTEC COM
GENERAL	NO	
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GROUNE 2. RISERS A	WATER COND	ITIONS APTERS NOT SUPPLIED
MICROS 3. PLUMBI	EPTEC NG DIMENSION	IS FROM OUTSIDE EDG
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APPROV 12. GEOLOG	ED BY LOCAL IST OR SHOUL	CODE OR SOIL ENGINE D DETERMINE IF
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13.3. MID OF V	DLE THREE TA	NK CHAMBERS ARE $\frac{3}{4}$ I
14. TO DETE OF EART	ERMINE THE EC	UIVALENT FLUID WEI F THE TANK AND
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DRAWN:	DATE:	JOB NUMBER
AJM	2/10/21	ES6 INSTALLATIO
AJM	2/10/21	ES6 INSTALLATIO
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AJM REVISION:	2/10/21 REV DATE: BY: 09/15/2023	ES6 INSTALLATIO
AJM REVISION:- 1	2/10/21 REV DATE: BY: 09/15/2023 MJS	ES6 INSTALLATION /ISION: DESCRIPTION ADDRESS CHANGE A OUTLET HEIGHT
AJM REVISION:- 1	2/10/21 REV DATE: BY: 09/15/2023 MJS	ES6 INSTALLATION /ISION: DESCRIPTION ADDRESS CHANGE A OUTLET HEIGHT
AJM REVISION: 1	2/10/21 REV DATE: BY: 09/15/2023 MJS	ES6 INSTALLATION

SITE INFORMATION:

ES 6 INSTALLATION DRAWING

SHEET TITLE:

GENERAL NOTES

SHEET NUMBER:

IN6-01



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





93/4

ALARM CONTROL PANEL



S C A L E 1:5 AIR COMPRESSOR DETAIL

S C A L E

1:5



ES 6 INSTALLATION DRAWING

SHEET TITLE:

ALARM CONTROL PANEL AND AIR COMPRESSOR DETAIL

SHEET NUMBER:

IN6-02











TANK INSTALLATION LAYOUT (PLAN VIEW)

	10 W 1(877)-4 WW	Micr Airpari Dayton Septic W.Micro	COSEPTEC K VISTA BLVD , NV 89403 [1(877)473-7842] DSEPTEC.COM	
	GENERAL: 1. THE MIL BE PUM GROUNI 2. RISERS A MICROS 3. PLUMBI TANK TO 4. CONTRA PLUMBI THAN 4H 5. SITE-SPH NOT LIM OTHER H GROUNI SHOULD ENGINE	DDLE THREE C PED DRY, ESPE DWATER CONE AND RISER AD EPTEC NG DIMENSION O INVERT OF IN ACTOR TO PRO NG FOR ANY E T ECIFIC CHARAC ITED TO: BUR EXTERNAL LO. DWATER, AND D BE CONFIRMI ER BEFORE INS	TES HAMBERS SHOULD NEVER CIALLY IN HIGH DITIONS APTERS NOT SUPPLIED BY NS FROM OUTSIDE EDGE OF NLET AND OUTLET VIDE ADDITIONAL BURIAL DEPTH GREATER CTERISTICS INCLUDING BUT IAL DEPTH, TRAFFIC OR ADING, SEASONAL SOIL CHARACTERISTICS ED WITH A LOCAL DESIGN STALLATION	
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RED BACKFILL AREA IF REQUIRED ECH OR SOIL ENGINEER	 13. ANCHORING AND ANTI-FLOATATION DESIGNS ARE NOT A ONE-SIZE-FITS-ALL DESIGN AND CONSIDER THE FOLLOWING CONDITIONS: 13.1. AT LEAST 2FT OF COVER 13.2. GROUNDWATER AT GRADE 13.3. MIDDLE THREE TANK CHAMBERS ARE ³/₄ FULL OF WATER 14. TO DETERMINE THE EQUIVALENT FLUID WEIGHT OF EARTH OVER TOP OF THE TANK AND COUNTERWEIGHT, A GEOTECHNICAL ENGINEER OR OTHER PROFESSIONAL SHOULD BE CONSULTED 15. CONTROL JOINTS FOR ANCHORS ARE DETERMINED BY GENERAL CONTRACTOR 			
1:16 1				
	DRAWN:	DATE:	JOB NUMBER:	
NOTES.	AJM	2/10/21	ES6 INSTALLATION	
1 CONTROL JOINTS	DEVISION	RE DATE:	VISION:	
 CONTROL JOINTS DETERMINED BY CONTRACTOR 3" GAP MUST REMAIN BETWEEN CONCRETE SLAB AND FIBERGLASS RISERS 	1	BY: 09/15/2023 MJS	ADDRESS CHANGE AND OUTLET HEIGHT	
KIGERG				
	SITE INFORMATION:			
	ES 6 INSTALLATION DRAWING		5 6 ON DRAWING	
		SHEE	T TITLE:	
	H	H20 TRAFFIC SLAB INSTALLATION		
		SHEET	NUMBER:	
SCALE 1:16 2		ING	5-06	





			10 W 1 (877)-4 WW	Micr Airpari Dayton Septic W.Micro	SEPTEC .COM
				NO	TES
			GENERAL: 1. THE MID BE PUME GROUNE 2. RISERS A MICROSE 3. PLUMBIN TANK TO 4. CONTRA PLUMBIN THAN 4F 5. SITE-SPE NOT LIM OTHER E GROUND SHOULD ENGINEE	DLE THREE CI PED DRY, ESPE DWATER COND AND RISER AD EPTEC NG DIMENSION O INVERT OF IN CTOR TO PRO NG FOR ANY B T CCIFIC CHARAG ITED TO: BUR EXTERNAL LO DWATER, AND BE CONFIRMI ER BEFORE INS	HAMBERS SHOULD NEVER ICIALLY 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 STALLATION
LE CLOTH TO LINE ENTIRE ED BACKFILL AREA IF REQU CH OR SOIL ENGINEER	UIRED		TANK BURIAL6.THE DES ANY TAN BE ANAI7.COVER T8.ENGINEH ALONG S9.GEOLOG DETERM ARE REQ10.DEPTH C SOIL REH11.VERTICA APPROV12.GEOLOG CORROS USED IN SEE SHEIANCHORING:13.13.ANCHOR ARE NOT CONSIDH13.1.AT I 13.2.13.3.MID OF V14.TO DETE OR EART CONSUL 15.15.CONTRO	: IGNED TANK I NK BURIED BE LYZED BY A LO TO BE A MINIM ERED BACKFIL SIDES AND BO UIST OR GEOTE UINE IF ANCHO UIRED. OF SOIL SLOPE PORT AL CUT FOR FIL ED BY LOCAL UIST OR SHOUL IVE RESISTAN ANY STEEL PA ET IN06-01 RING AND ANT F A ONE-SIZE-F ER THE FOLLO LEAST 2FT OF CO UNDWATER A DLE THREE TA VATER ERMINE THE EC TH OVER TOP CO RWEIGHT, A G ER PROFESSION TED OL JOINTS FOR	BURIAL DEPTH IS 2FT TO 6FT. YOND THAT RANGE MUST DCAL DESIGN ENGINEER IUM OF 2FT. L TO BE A MINIMUM OF 12" TTOM OF TANK CHNICAL ENG. TO RS AND TEXTILE FILTER CUT PER LOCAL CODE OR LL HEIGHT CAN BE DONE IF CODE OR SOIL ENGINEER D DETERMINE IF T MATERIAL SHOULD BE ARTS EXPOSED IN THE SOIL.
	S C A L E 1:16	1	DETERM	INED BY GENI	ERAL CONTRACTOR
	· · · ·		DRAWN:	DATE:	JOB NUMBER:
			AJM	2/10/21	ES6 INSTALLATION
 COTES: CONTROL JOINTS DETERMINED BY CONTRACTOR 3" GAP MUST REMAIN BETWEEN CONCRETE SLAB AND FIBERGLASS RISERS 			REVISION:	REV DATE: BY: 09/15/2023 MJS	VISION: DESCRIPTION: ADDRESS CHANGE AND OUTLET HEIGHT
1'W x 1'H x 18'L CONCRETE BEAM LOCATED ON EACH				SITE INFO	DRMATION:
SIDE OF TANK			INST	ES ALLATIO	S 6 ON DRAWING
			SHEET TITLE: H20 TRAFFIC SLAB WITH ANTI-FLOATATION ANCHORS		
	S C A L E 1:16	2		SHEET	NUMBER:





TANK INSTALLATION LAYOUT (PLAN VIEW)

	10 W 1 (877)-4 WW	Micr Airpari Dayton Septic W.Micro	COSEPTEC K VISTA BLVD , NV 89403 [1(877)473-7842] DSEPTEC.COM	
		NO	TES	
- 4 YDS CONCRETE f(c) = 2500 psi (min)	GENERAL: 1. THE MIE BE PUMI GROUNI 2. RISERS A MICROS 3. PLUMBIE TANK TO 4. CONTRA PLUMBIE THAN 4F 5. SITE-SPE NOT LIM OTHER F GROUNI SHOULD ENGINE	DLE THREE C PED DRY, ESPE DWATER CONI AND RISER AD EPTEC NG DIMENSION O INVERT OF IN CTOR TO PRO NG FOR ANY E CIFIC CHARAG ITED TO: BUR EXTERNAL LO. DWATER, AND BE CONFIRMI ER BEFORE INS	HAMBERS SHOULD NEVER ECIALLY IN HIGH DITIONS APTERS NOT SUPPLIED BY NS FROM OUTSIDE EDGE OF NLET AND OUTLET VIDE ADDITIONAL BURIAL DEPTH GREATER CTERISTICS INCLUDING BUT IAL DEPTH, TRAFFIC OR ADING, SEASONAL SOIL CHARACTERISTICS ED WITH A LOCAL DESIGN STALLATION	
ILE CLOTH TO LINE ENTIRE RED BACKFILL AREA IF REQUIRED SCH OR SOIL ENGINEER	 1ANK BURIAL 6. THE DES ANY TAI BE ANAI 7. COVER 7 8. ENGINEI ALONG 5 9. GEOLOG DETERM ARE REC 10. DEPTH C SOIL REI 11. VERTICA APPROV 12. GEOLOG CORROS USED IN SEE SHE ANCHORING: 13. ANCHOF ARE NOT CONSIDI 13.1. AT I 13.2. GRC 13.3. MID OF V 14. TO DETE OF EART COUNTE OR OTHI CONSUL 15. CONTRC DETERM 	: IGNED TANK I NK BURIED BE LYZED BY A LA TO BE A MINIM ERED BACKFII SIDES AND BO IST OR GEOTE INE IF ANCHO UIRED. F SOIL SLOPE PORT AL CUT FOR FI ED BY LOCAL HST OR SHOUL IVE RESISTAN ANY STEEL P. ET IN06-01 RING AND ANT T A ONE-SIZE-J ER THE FOLLO LEAST 2FT OF O UNDWATER A DLE THREE TA VATER ERMINE THE EQ THOVER TOP O RWEIGHT, A C ER PROFESSIO TED DL JOINTS FOR INED BY GEN	BURIAL DEPTH IS 2FT TO 6FT. EVOND THAT RANGE MUST OCAL DESIGN ENGINEER IUM OF 2FT. L TO BE A MINIMUM OF 12" TTOM OF TANK ECHNICAL ENG. TO ORS AND TEXTILE FILTER CUT PER LOCAL CODE OR LL HEIGHT CAN BE DONE IF CODE OR SOIL ENGINEER LD DETERMINE IF T MATERIAL SHOULD BE ARTS EXPOSED IN THE SOIL. T-FLOATATION DESIGNS FITS-ALL DESIGN AND WING CONDITIONS: COVER AT GRADE ANK CHAMBERS ARE ³ / ₄ FULL QUIVALENT FLUID WEIGHT OF THE TANK AND GEOTECHNICAL ENGINEER NAL SHOULD BE ANCHORS ARE ERAL CONTRACTOR	
1:10	DRAWN:	DATE:	JOB NUMBER:	
	AIM	2/10/21	ES6 INSTALLATION	
NOTES:		2/10/21		
 CONTROL JOINTS DETERMINED BY CONTRACTOR 3" GAP MUST REMAIN BETWEEN CONCRETE SLAB AND FIBERGLASS RISERS 	REVISION:	RE DATE: BY: 09/15/2023 MJS	DESCRIPTION: ADDRESS CHANGE AND OUTLET HEIGHT	
	ES 6 INSTALLATION DRAWING			
	H20 ANTI-	SHEET TITLE: H20 TRAFFIC SLAB WITH ANTI-FLOATATION COLLAR		
		SHEET	NUMBER:	
SCALE 1:16 2		ING	5-10	

