

GOVERNMENT HOSPITALS & HEALTH FACILITIES CORPORATION
TERRITORIAL HOSPITAL REDEVELOPMENT TEAM

4007 Estate Diamond Ruby
Christiansted, VI 00821
(340)-778-6311



9048 Sugar Estate
St. Thomas, VI 00802
(340)776-8311

Amendment Four (4)

IFB-001-THRT-T-023 (C) Renovation of the Charlotte Kimelman Cancer Institute
May 24, 2023

Insert Questions and Answers:

Question: Please have the HVAC Engineer pass on the contact information for COMPUTROLS. They are a listed vendor in specification section 230900-2.1-A-1 and are not a widely used vendor in the Project area.

Answer: **Oldach Associated - Catano, PR**
PR-869, Las Palmas Industrial Park
Catano PR 00962
(787) 641-2420

<https://www.computrols.com/dealers/puerto-rico-distribution-partner/>

Question: Can THRT prepare an OCRM (Owner Contractor Responsibility Matrix) for all equipment and FFE?

Answer: **See Amendment One (1) dated May 9, 2023 currently posted on the website below:**
<https://www.srmedicalcenter.org/community/doing-business-with-srmc>.

Question: Please issue Appendix B BID FEE SCHEDULE as an Excel file.

Answer: **To protect the integrity of the file, an excel file will not be shared.**

Question: Please provide the specifications for the water tanks and any associated delegate foundation systems.

Answer: **The full specification is attached. It's custom fab and specs have been put together by the rep.**

Question: Please provide any supplementary structural design related to fuel tanks for the generator.

Answer: **This should be covered by whoever is specifying the fuel tanks. Any supports or connections should be pre-engineered.**

Question: Can THRT please provide the extent of reusable handrails for the purposes of estimating? This is subjective and it would be good to have all bidders hold the same quantity of reused railings.

Answer: **Handrails to be reused at glass stairs and at stairs that is not being relocated only.**

Question: Please confirm if we should include signage. If so, please provide signage plans.

Answer: **Contractor to include all code required signage (ADA restroom and fire escape signage). Contractor to also include \$500 allowance for Temporary Construction signage required by USVI. All room identification and building name signage to be under separate RFP.**

"Together We Are Stronger"

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Question: Portions of the exterior façade located plan North between gridlines 3 and 7 appear to be drawn as a true radius, however there is no radius point indicated. Please clarify whether the exterior curtainwall is to be a true radius or a segmented radius.

Answer: Exterior curtainwall is to be a segmented radius to be an extension of the original radius between gridlines 8 and 10.

Question: Enlarged plan A2/A413 appears to show the wood veneer paneling is applied to the walls either side of the entrance to the Appearance Center and continues on around the corner into C115 and into Corridor C1C1, but there are no elevations showing these locations. Please clarify the extent of the wood veneer by issuing additional elevations or other clarifying information.

Answer: Elevation of C115 north is called out on A1/A101B as B2/A412. There is no elevation of the southside of Corridor C1C1, but wood paneling turns into recess and ends at inside corner similar to C115. These details would be similar to A6/A802; outside corners to be mitered.

Question: The Responsibility Matrix indicates that the contractor is to include a Pneumatic Tube System in their price. No specifications have been provided for a Pneumatic Tube System, and the drawings do not appear to indicate a pneumatic tube system. Please clarify design intent and/or provide an Allowance for all bidders to include in their bid price for this work.

Answer: There is no pneumatic tube system in this project.

Question: The Responsibility Matrix indicates that the contractor is to include interior signage in their proposal, however there are no signage specifications and no signage drawings. Please clarify design intent and/or provide an Allowance for all bidders to include in their bid price for this work.

Answer: Contractor to include all code required signage (ADA restroom and fire escape signage). Contractor to also include \$500 allowance for Temporary Construction signage required by USVI. All room identification and building name signage to be under separate RFP.

Question: Are the Fire, Access Security and CCTV systems to be stand alone or part of the existing SRMC Systems or are they to be integrated with those systems? If so to what extent?

Answer: The CKCI Fire Alarm can be of a different manufacturer than the hospital's existing system, is standalone, but needs to be able to communicate a CKCI alarm condition to the hospital's fire alarm system and also be able to accept an alarm condition notification from the hospital to the CKCI system as noted in specifications. Access Security and CCTV are stand alone.

Question: Refer to drawing IF000. Stainless steel corner guards are specified as manufactured by Nystrom Products; however, this firm no longer manufactures or sells stainless steel corner guards. Are comparable products produced by InPro or Construction Specialties acceptable? If not, advise as to replacement acceptable manufacturers.

Answer: This is acceptable.

Question: Refer to specification section 10 26 01. Gage thickness is not indicated for stainless steel corner guards; please confirm 16 gauge is acceptable.

Answer: This is acceptable.

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Question: Refer to drawing IF102 in the Infusion Bays and details D3, E3, and E4/A427. Divider screen RP-1 is noted between the Infusion Bays and at the end caps, and per the referenced details appears to run from the top of the cabinets up, but no detail shows how high. Elevation B1/A427 has a dimension of 5'-6" from finish floor, but it is unclear what the 5'-6" dimension is for. Is RP-1 intended to separate the back-to-back cabinets, run on top, or is there to be a stem wall dividing the cabinets (sim. to E4/A427), and what elevation does RP-1 run to?

Answer: There is a partial height wall between the Infusion Bay pods; similar to detail E4/A427. RP-1 starts at the top of this wall. RP-1 at the Infusion Bays extends to the sloped ceiling; top detail to be similar to detail B5/A821.

**ALL OTHER TERMS AND CONDITIONS REMAIN UNCHANGED.
A COPY OF THIS AMMENDMENT MUST BE RETURNED WITH YOUR BID**

"Together We Are Stronger"

REL.: 0

DATE: August 17, 2022

BY:

SUMMARY OF TANK DESIGN INPUT DATA

STRUCTURE MODEL	22 20	
FOUNDATION TYPE	Steel Floor	
SPECIFIC GRAVITY	1.000	
H/V PRESSURE RATIO	1.000	
FREEBOARD	40.000 in	1016.000 mm
ROOF TYPE	Knuckle	
ROOF WEIGHT	5.000 psf	24.410 kg/m ²
SC ROOF HEIGHT	2.500 in	63.500 mm
DC ROOF PROJ AREA	59.370 sq ft	5.516 sq m
DC ROOF CENTROID	18.970 in	481.838 mm
TOTAL ROOF HEIGHT	53.800 in	1366.520 mm
GROUND SNOW LOAD	0.000 psf	
PF	0.0 psf	
Ce	1.00	
Is	1.20	
Ct	1.00	
ROOF SNOW LOAD PER IBC 2018/2021 w ASCE 7-16	25.000 psf	1.198 kPa
WIND DESIGN LOAD PER	IBC 2018/2021	w D103 / ASCE 7-16*(68.09 psf)*
EXPOSURE DIRECTION	ALL	
EXPOSURE FACTOR	C	
RISK CATEGORY	IV	
WIND SPEED	185.000 mph	83.250 m/s
Kzt	1.300	
Ke	1.000	
TANK SPACING CATEGORY	Group	
Cf	1.300	
Gust Factor, G	0.850	
WIND STIFFENER DESIGN PRESSURE	68.09 psf	
WIND PRESSURE ROOF SINGLE CURVATURE	68.086 psf	
WIND PRESSURE ROOF DOUBLE CURVATURE	68.086 psf	
SEISMIC DESIGN	IBC 2018/2021	
Ss	1.234	
S1	0.431	
TL	12.0	
SEISMIC IMPORTANCE FACTOR	1.500	
SEISMIC DESIGN CATEGORY	D	
SDs	0.828	
SD1	0.537	
SITE CLASS	D	
FA	1.006	
FV	1.869	
J SELF ANCHORED	2.113	
FLAT BOTTOM GROUND SUPPORTED ANCHORED TANK.		
DESIGN BASE SHEAR	V =0.214 W	
ANALYSIS PROCEDURE	AWWA D103-09	
ALLOWABLES USED	AWWA D103-09/NFPA22	
DESIGN METHOD	ALLOWABLE STRESS DESIGN	
Add Anchors even if not required?	NO	
FLOOR O.D	22.500 ft	6858.000 mm
AQUA2 VERSION	5.0.2.2	
TANK PART LIST REVISION No.	N/A	
FND. PART LIST REVISION No.	N/A	

REL.: 0

DATE: August 17, 2022

BY:

SUMMARY OF INTERNALLY ASSIGNED PARAMETERS

BOLT DIAMETER	0.500 in	12.700 mm
HOLE DIAMETER	0.562 in	14.288 mm
TOP COURSE EDGE DIST	1.000 in	25.400 mm
STEEL FLOOR IN FNDN	0.094 in	2.388 mm
DIST T/FTG TO B/FLR	0.000 in	0.000 mm
TOTAL FNDN THICKNESS	0.094 in	2.388 mm
STEEL FLOOR MATERIAL	50000 psi	345 MPa
SHEET DENSITY	590.000 pcf	9451 kg/m ³
STEEL ELASTIC MODULUS	30000000 psi	206843 MPa
STEEL FLOOR DENSITY	590 pcf	9451 kg/m ³
NET SHEET WIDTH	105.462 in	2679.000 mm
NET STANDARD SHEET HT.	54.990 in	1397.000 mm
STARTER PANEL HEIGHT	18.683 in	475.000 mm
INVENTORY USED	wssf(91311)	

22 20 STRUCTURE DESIGN SUMMARY (8 FULL LENGTH SHEETS PER RING/COURSE)

COURSE NUMBER	THICKNESS (in)	THICKNESS (mm)	SHEET CODES	MATERIAL CODE	LIMITING FACTOR(S)
1	0.1046	2.657	1101	2	[38]
2	0.1046	2.657	1101	2	
3	0.1046	2.657	1101	2	
4	0.1046	2.657	1101	2	
FND	0.1345	3.416	6321	2	

WIND STIFF REQUIRED	REQUIRED / ACTUAL SECT MOD	DESCRIPTION
STIFFENER AT BOTTOM OF COURSE 1	= 0.884 cu in / 1.110 cu in	3" Web Truss
STIFFENER AT BOTTOM OF COURSE 2	= 0.868 cu in / 1.110 cu in	3" Web Truss
STIFFENER AT BOTTOM OF COURSE 3	= 0.868 cu in / 1.110 cu in	3" Web Truss

ANCHORS REQUIRED: (1) 1 1/4 inch ANCHORS REQUIRED PER SHEET.

STRUCTURE DIAMETER	= 22.38 ft	6821.34 mm
HEIGHT OF STRUCTURE TO EAVE	= 19.97 ft	6086.93 mm
SLOSHING WAVE HEIGHT	= 3.29 ft	1001.95 mm
MINIMUM FREEBOARD (SEISMIC)	= 3.29 ft	1001.95 mm
FREEBOARD (PROVIDED)	= 3.333 ft	1016.000 mm
VOLUME OF STRUCTURE TO EAVE	= 7856 cu ft	222 m3
VOLUME OF CONTENTS	= 6544 cu ft	185 m3
VOLUME OF CONTENTS	= 48956 gal	185318 L
VOLUME OF STEEL FLOOR FND.	= 3 cu ft	0 m3

WEIGHT OF EMPTY CYLINDER ABOVE FLOOR	= 7352 lb	3335 kg
WEIGHT OF ROOF	= 1967 lb	892 kg
SNOW (LIVE) LOAD	= 9834 lb	4461 kg
WEIGHT OF CONTENTS	= 408373 lb	185235 kg
STEEL FLOOR WEIGHT	= 1838 lb	834 kg
TOTAL WEIGHT ON FOOTING	= 429363 lb	194756 kg

WIND SHEAR AT TOP OF FOOTING	= 34789 lb	154750 N
WIND MOMENT AT TOP OF FOOTING	= 398444 ft-lb	540 kN-m
SEISMIC SHEAR AT TOP OF FOOTING	= 91868 lb	408649 N
SEISMIC MOMENT AT TOP OF FOOTING	= 637994 ft-lb	865 kN-m
SEISMIC MOMENT MAT FOUNDATION	= 916242 ft-lb	1242 kN-m

HOOP STRESS ANALYSIS

--STRESS-(PSI)--

Course Number	Depth (ft)	Press (PSI)	Net Tensile	Allowable Tensile	Hole Bearing	Allowable Bearing	Bolt Shear	Allowable Shear
1	1.3	0.6	1010	20230	3135	67500	835	29454
2	5.9	2.6	4483	20230	13918	67500	3707	29454
3	10.5	4.5	7955	20230	24701	67500	6580	29454
4	15.1	6.5	11428	20230	35484	67500	9452	29454
FND	16.6	7.2	8822	21167	12767	67500	4373	29454

AXIAL STRESS ANALYSIS

--STRESS-(PSI)--

Course Number	Axial Compressive	Allowable Compressive	Hole Bearing	Allowable Bearing	Bolt Shear	Allowable Shear
1	152	1518	1532	67500	408	29454
2	171	1518	1720	67500	458	29454
3	190	1518	1909	67500	508	29454
4	209	1518	2097	67500	559	29454
FND	169	1936	848	67500	290	29454

WIND STRESS ANALYSIS

--STRESS-(PSI)--

Course Number	Axial Comp	Wind Bend	Total Comp	Allowable Comp	Hole Bear	Allowable Bear	Bolt Shear	Allowable Shear
1	41	89	131	2023	1311	90000	349	39272
2	60	228	288	2023	2894	90000	771	39272
3	79	432	510	2023	5127	90000	1366	39272
4	97	700	798	2023	8011	90000	2134	39272
FND	82	627	709	2582	3560	90000	1219	39272

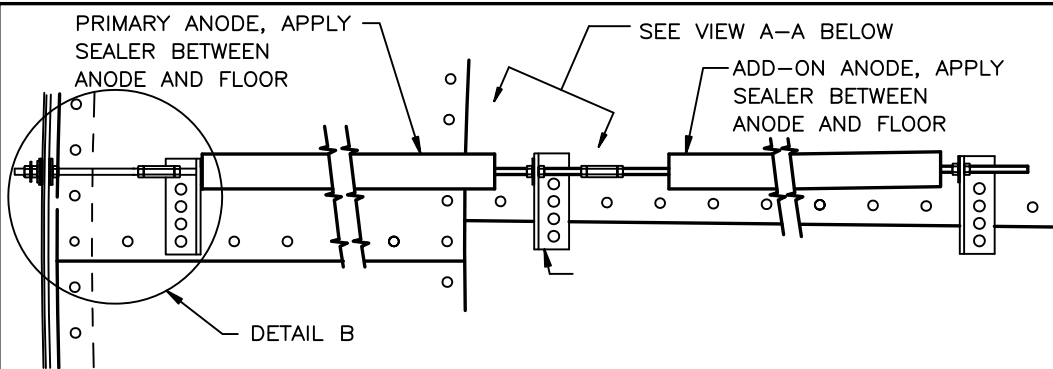
SEISMIC STRESS ANALYSIS

--STRESS-(PSI)--

Course Number	Axial Comp	Seismic Bend	Total Comp	Allowable Comp	Hole Bear	Allowable Bear	Bolt Shear	Allowable Shear
1	41	54	96	2023	959	90000	256	39272
2	60	212	272	2023	2734	90000	728	39272
3	79	553	631	2023	6342	90000	1689	39272
4	97	1140	1237	2023	12424	90000	3309	39272
FND	82	1091	1173	2582	5889	90000	2017	39272

SEISMIC STRESS ANALYSIS CONTINUED

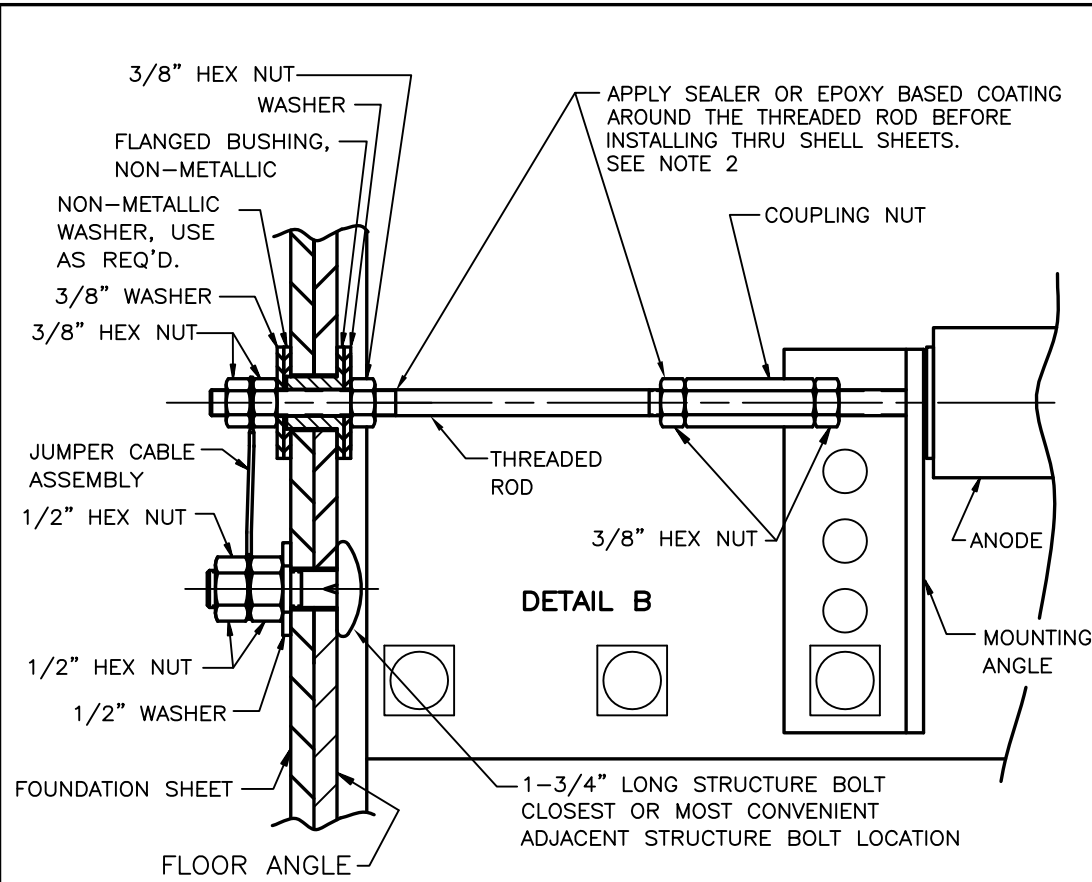
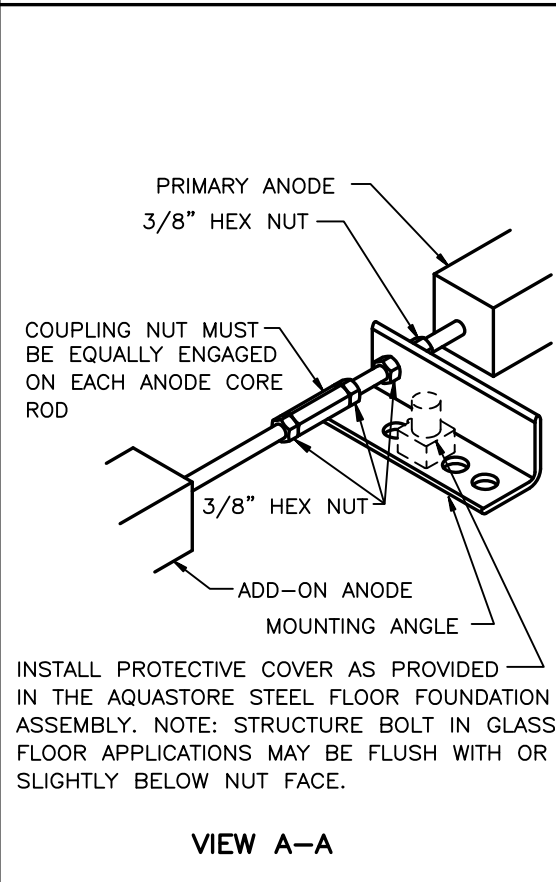
Course Number	--STRESS-(PSI)--		Allowable Tensile
	Hydro-Dynamic Hoop	Total Hoop	
1	852	1862	26974
2	1260	5743	26974
3	1825	9780	26974
4	2166	13594	26974
FND	1732	10554	28222



NOTES:

1. THIS CONSTRUCTION DETAIL IS INTENDED TO SHOW THE CATHODIC PROTECTION SYSTEM AS INSTALLED. SEE P/N 266817 FOR DETAILED INSTALLATION INSTRUCTIONS.
2. ALL NSF APPROVED SEALERS AND EPOXY BASED COATINGS USED WHEN INSTALLING THE CATHODIC PROTECTION SYSTEM ARE TO BE SUPPLIED BY THE BUILDER.

USAGE AQUASTORE STEEL FLOOR FOUNDATION
PLAN VIEW OF ANODE IN ASSEMBLED POSITION



REL	DESCRIPTION	ECN DR. BY
6	UPDATED TITLE BLOCK	10249 DCS/MEK



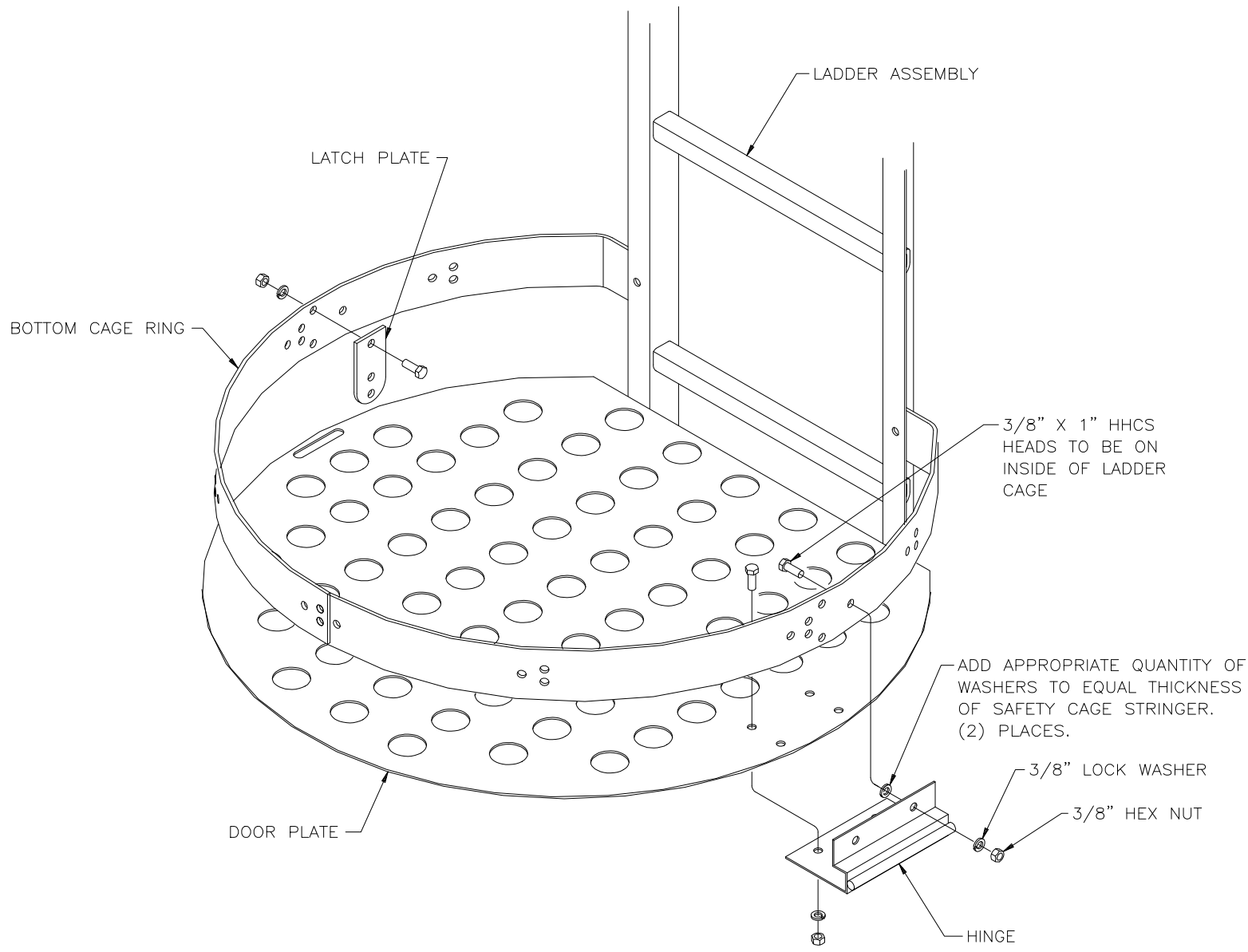
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DRAWN BY DMA
DATE 10/10/97

CONSTRUCTION DETAIL
CATHODIC PROTECTION
SYSTEM
AS INSTALLED

STEEL FLOOR FOUNDATIONS
ANODE ATTACHMENT

DRWG NO. **265450**



REL	DESCRIPTION	ECN DR. BY
3	UPDATED TITLE BLOCK	10249 DCS/MEK

THIS DRAWING IS NOT TO SCALE.
 ALL DIMENSIONS ARE REFERENCE ALLOWING
 ACCEPTABLE FIELD TOLERANCES TO APPLY.



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DRAWN BY TAK
 DATE 05/03/96

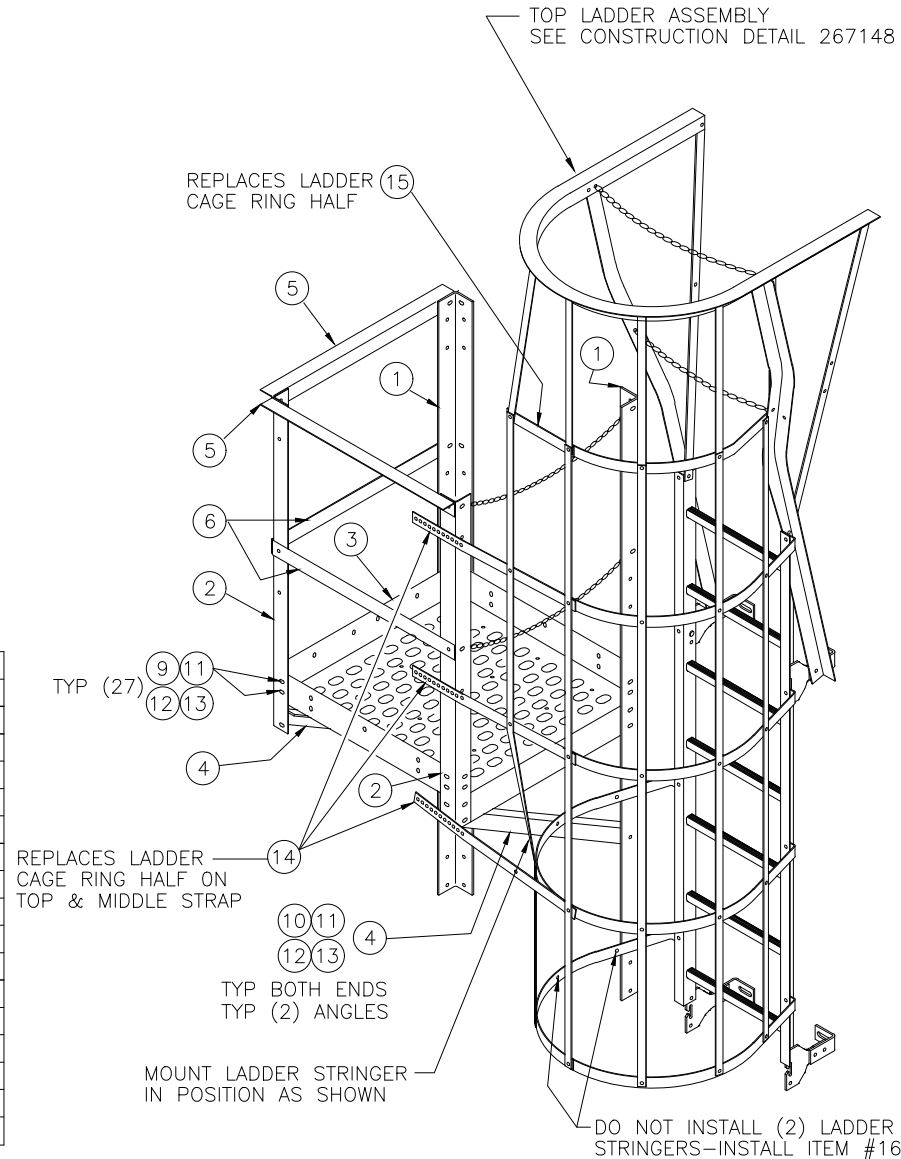
CONSTRUCTION DETAIL
 LADDER DOOR ASSEMBLY
 INSTALLATION
 LADDER ASSEMBLIES

DRWG NO. 264773

GENERAL NOTES:

1. ALL STEEL COMPONENTS ARE HOT DIP GALVANIZED.
2. FASTEN COMPONENTS TOGETHER USING 3/8" DIA. STAINLESS STEEL HEX HD CAP SCREW SETS. (SETS INCLUDE ITEMS #9, 10, 11, 12, AND 13) FASTENER USAGE FOR ASSEMBLY OF THIS SECTION IS AS FOLLOWS:
SET OF 3/8" X 1" LONG (ITEMS #9, 11, 12, AND 13) AT (27) JOINTS.
SET OF 3/8" X 1-1/4" LONG (ITEM #10, 11, 12, AND 13) AT (4) JOINT.
3. POSITION OF THE PLATFORM BRACKETS TO BE DETERMINED DURING INSTALLATION. SEE PROJECT SUBMITTAL DOCUMENTATION FOR BRACKET TYPE AND QUANTITY REQUIREMENTS.
4. ATTACH (2) CHAIN ASSEMBLIES (ITEM #8) AT THE OPEN SIDE OF THE PLATFORM USING THE FOLLOWING FASTENERS AT EACH CHAIN ASSEMBLY LOCATION:
(1) SET 3/8" x 1" LG HHCS (ITEMS #9, 11, 12, & 13)
(1) SET 3/8" DIA. EYE BOLT (ITEMS #7, 11, 12, & 13)
5. THIS LADDER SECTION IS CONNECTED AT THE BOTTOM TO ANY ONE OF THE LADDER SECTIONS ILLUSTRATED ON THE FOLLOWING CONSTRUCTION DETAIL DRAWINGS:
267150 LADDER SECTION - INTERMEDIATE
267153 LADDER SECTION - LONG BOTTOM
267152 LADDER SECTION - SHORT BOTTOM
6. LEFT HAND PLATFORM MOUNT IS SHOWN. DEPENDENT ON SITE REQUIREMENTS, THE PLATFORM MAY BE MOUNTED ON THE RIGHT HAND SIDE OF THE LADDER.

16	STRINGER, 1/8" x 1" x 23"	2
15	CAGE BAND, 1/8" x 1-1/2" x 11"	1
14	CAGE BAND, 1/8" x 1-1/2" x 22-1/2"	3
13	WASHER, FLAT, 3/8"	37
12	NUT, HEX, 3/8"	35
11	WASHER, LOCK, 3/8"	33
10	SCREW, HEX HD CAP, 3/8" x 1-1/4"	4
9	SCREW, HEX HD CAP, 3/8" x 1"	27
8	CHAIN ASSEMBLY	2
7	EYE BOLT, 3/8"	2
6	STRAP, 1/8" x 2" x 30-1/8"	2
5	RAIL, 2" x 2" x 1/8" x 30-1/8"	2
4	GUSSET ANGLE, 2" x 2" x 1/8" x 33-1/8"	2
3	PLATFORM, 30" x 30"	1
2	POST, 2" x 2" x 1/8" x 50-1/4"	2
1	MOUNTING ANGLE, 3" x 3" x 1/4" x 85"	2
--	MANWAY PLATFORM KIT	--
ITEM	DESCRIPTION	QTY



REL	DESCRIPTION	ECN DR. BY
5	UPDATED TITLE BLOCK	10249 DCS/MEK

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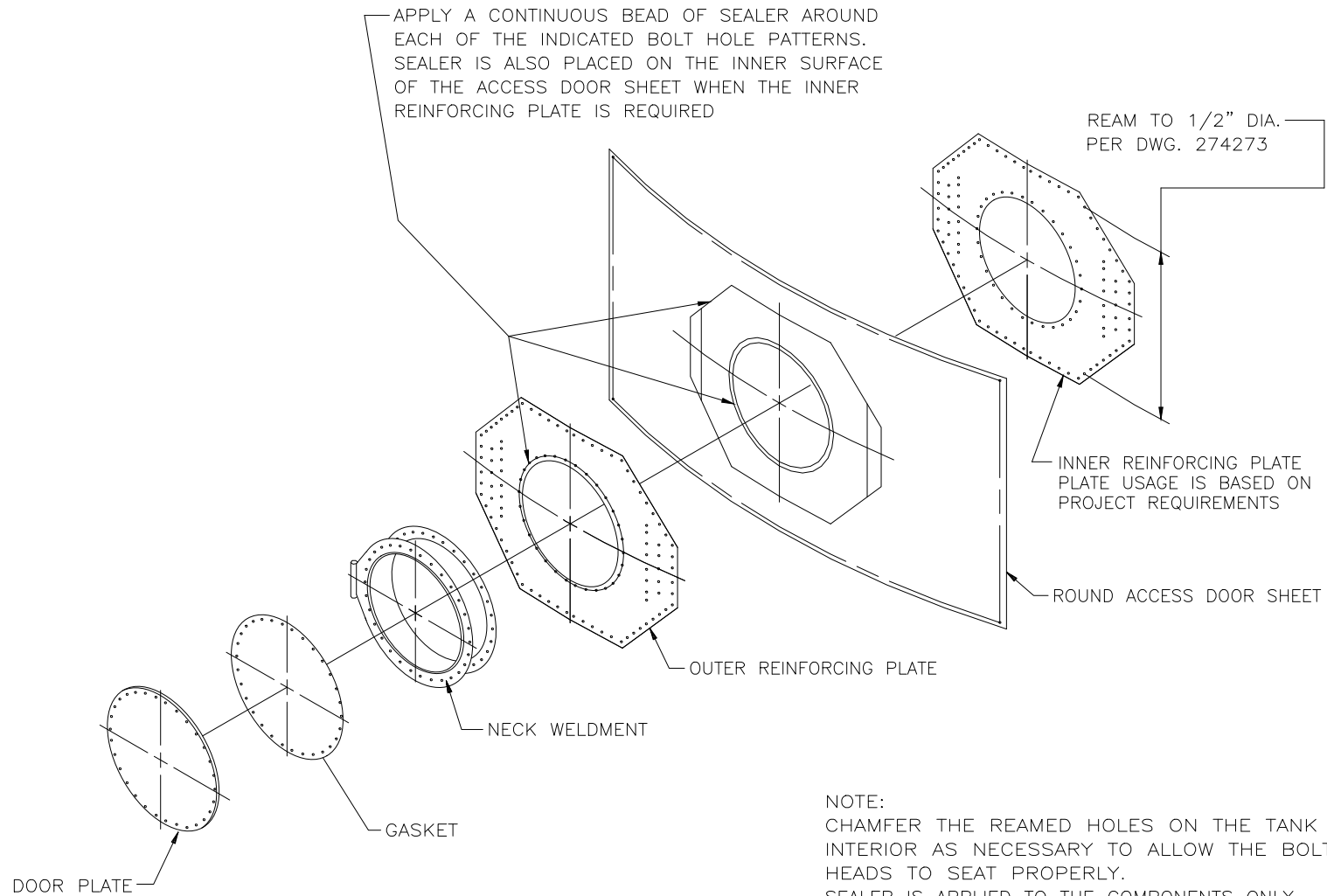
DRAWN BY DRT
 DATE 02/19/03

CONSTRUCTION DETAIL
 MANWAY PLATFORM
 AND TOP LADDER
 WITH SAFETY CAGE

TANK WITH ROOF

DRWG NO. 267154

REL	DESCRIPTION	ECN DR. BY
7	UPDATED TITLE BLOCK	10249 DCS/MEK



APPLY A CONTINUOUS BEAD OF SEALER AROUND EACH OF THE INDICATED BOLT HOLE PATTERNS. SEALER IS ALSO PLACED ON THE INNER SURFACE OF THE ACCESS DOOR SHEET WHEN THE INNER REINFORCING PLATE IS REQUIRED

REAM TO 1/2" DIA. PER DWG. 274273

INNER REINFORCING PLATE PLATE USAGE IS BASED ON PROJECT REQUIREMENTS

ROUND ACCESS DOOR SHEET

OUTER REINFORCING PLATE

NECK WELDMENT

GASKET

NOTE:
 CHAMFER THE REAMED HOLES ON THE TANK INTERIOR AS NECESSARY TO ALLOW THE BOLT HEADS TO SEAT PROPERLY.
 SEALER IS APPLIED TO THE COMPONENTS ONLY AFTER THE REAMING PROCEDURES HAVE BEEN COMPLETED AND THE COMPONENTS ARE READY FOR FINAL ASSEMBLY.
 SEE DRAWING NUMBER 261337 FOR THE NECK WELDMENT TO ACCESS DOOR SHEET BOLT JOINT.

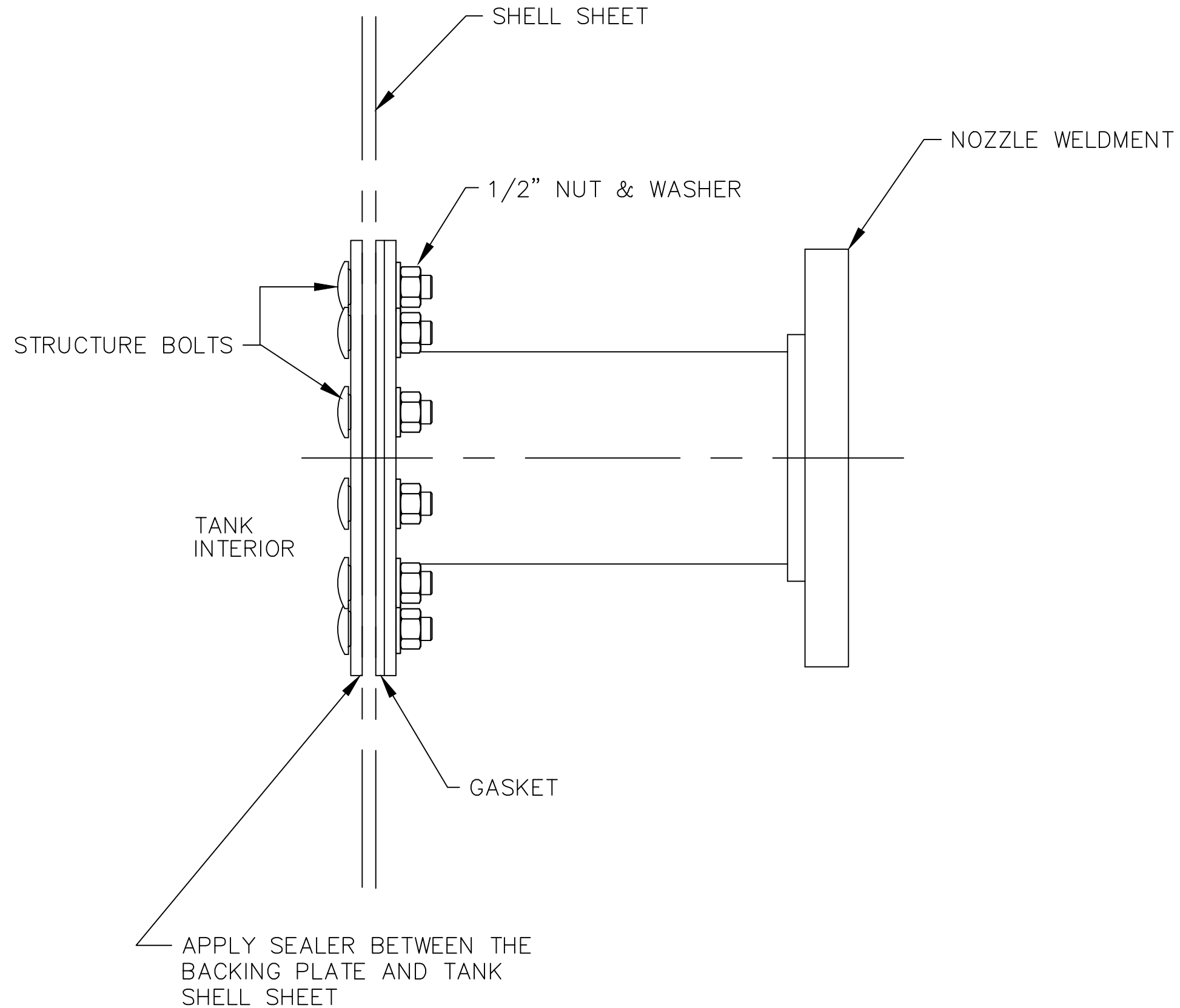


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DRAWN BY DMN
 DATE 08/19/91

CONSTRUCTION DETAIL
 24" ROUND ACCESS DOOR (W/O DAVIT)
 INSTALLATION
 GLASS COATED + BLACK STEEL TANKS

DRWG NO. 261336



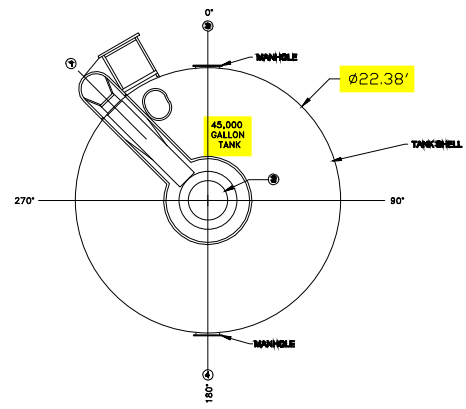
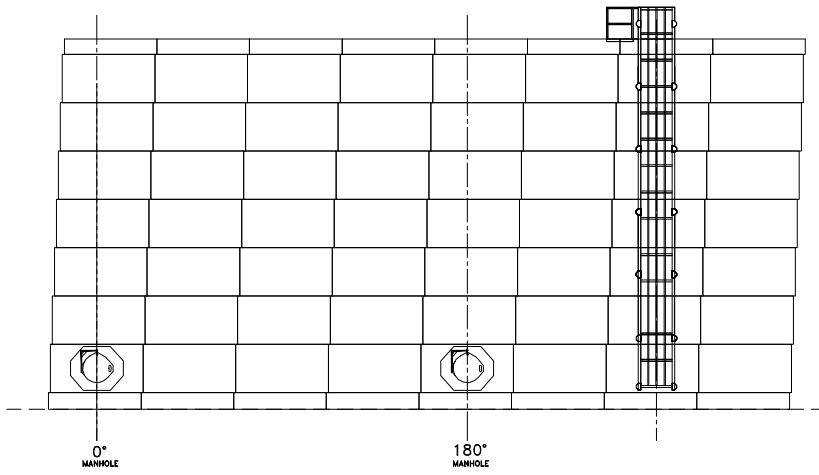
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2	UPDATED TITLE BLOCK	10249 DCS/MEK

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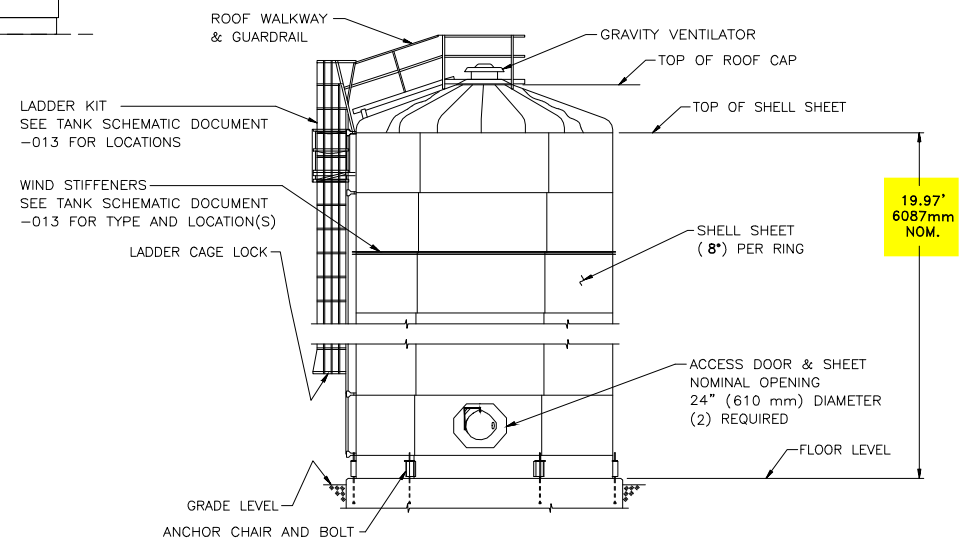
DRAWN BY DRT
 DATE 01/23/07

CONSTRUCTION DETAIL
 TANK NOZZLE
 INSTALLATION

DRWG NO. 271343



TANK NOZZLE PENETRATION SCHEDULE					
MARK	SIZE	SERVICE	DESCRIPTION	ELEV. ABOVE TANK BOTTOM TO TOP OF PENETRATION	COMMENTS
1	24" X 24"	INSPECTION	LADDER AND ROOF HATCH	ROOF	
2	24"	VENT	CENTER ROOF VENT	ROOF	
3	24"	ACCESS	MANHOLE	3' - 10"	
4	24"	ACCESS	MANHOLE	3' - 10"	
5					
6					
7					
8					
9					



General Notes

No.	Revision/Issue	Date

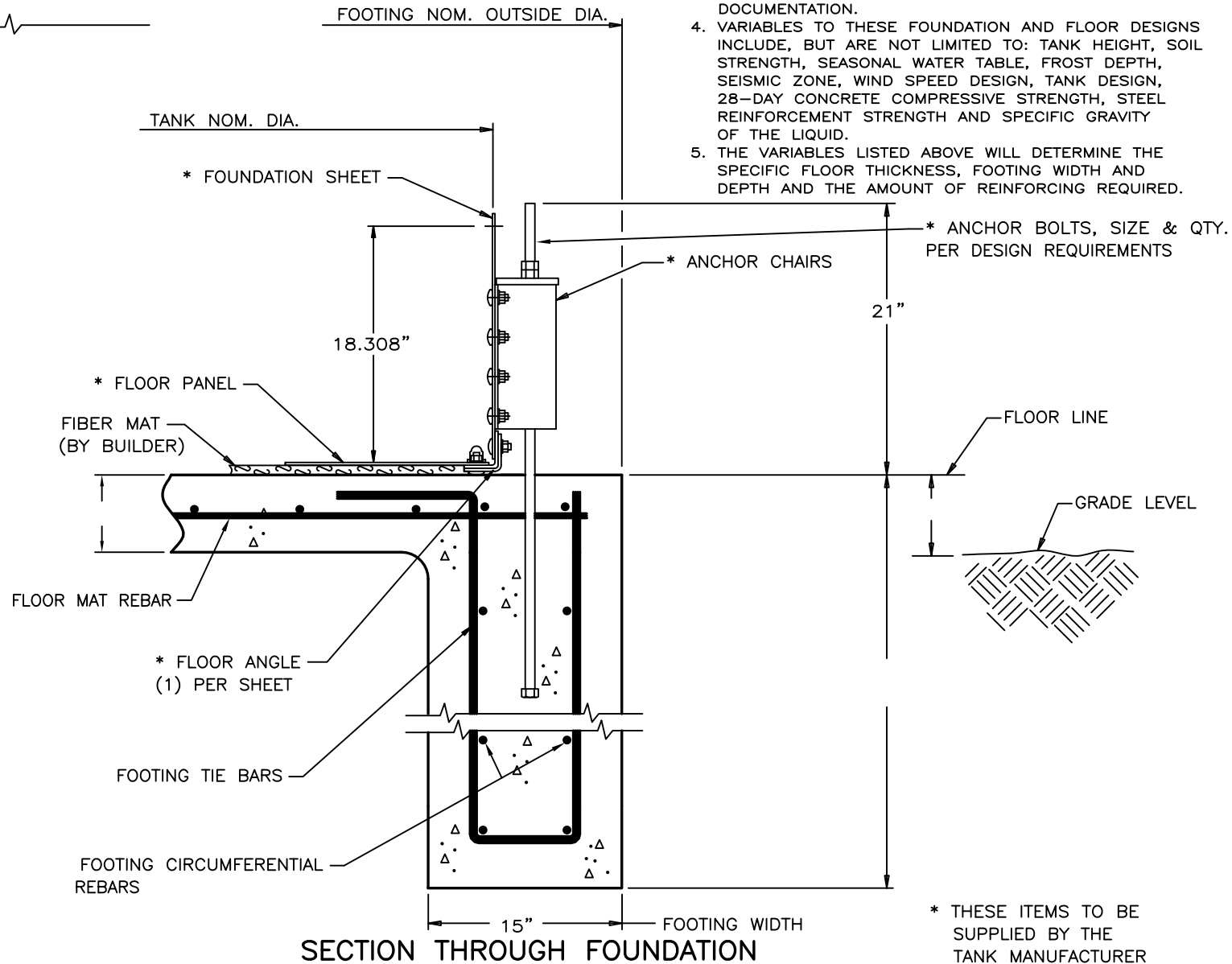
Firm Name and Address
FLORIDA AQUASTORE
 Florida Aquastore
 4722 N.W. 86th Rd., Suite C102
 Boca Raton, Florida, 33431-0868, U.S.A.

Project Name and Address
SCHNIDER REGIONAL MEDICAL CENTER ST. THOMAS

Project	SCHNIDER MEDICAL	Sheet	
Date	06.17.22		
Scale	N.T.S.		

GENERAL NOTES:

1. DRAWING IS NOT TO SCALE.
2. FOUNDATION AND FLOOR DESIGNS ARE PRELIMINARY AND CONCEPTUALLY REPRESENTED AS SALES DRAWINGS AND BASED ON: AWWA D103-97 SECTION 11.4.1.2 & 100 MPH WIND.
3. FOR SPECIFIC FLOOR AND FOUNDATION CALCULATIONS PLEASE REFER TO THE PROJECT SUBMITTAL DOCUMENTATION.
4. VARIABLES TO THESE FOUNDATION AND FLOOR DESIGNS INCLUDE, BUT ARE NOT LIMITED TO: TANK HEIGHT, SOIL STRENGTH, SEASONAL WATER TABLE, FROST DEPTH, SEISMIC ZONE, WIND SPEED DESIGN, TANK DESIGN, 28-DAY CONCRETE COMPRESSIVE STRENGTH, STEEL REINFORCEMENT STRENGTH AND SPECIFIC GRAVITY OF THE LIQUID.
5. THE VARIABLES LISTED ABOVE WILL DETERMINE THE SPECIFIC FLOOR THICKNESS, FOOTING WIDTH AND DEPTH AND THE AMOUNT OF REINFORCING REQUIRED.



SECTION THROUGH FOUNDATION

REL	DESCRIPTION	ECN DR. BY
3	UPDATED TITLE BLOCK	10249 DCS/MEK

TYPICAL CONDITIONS:
 LOWER SOIL STRENGTH
 HIGHER SEISMIC
 TYPICAL HEIGHTS: 10'-38'



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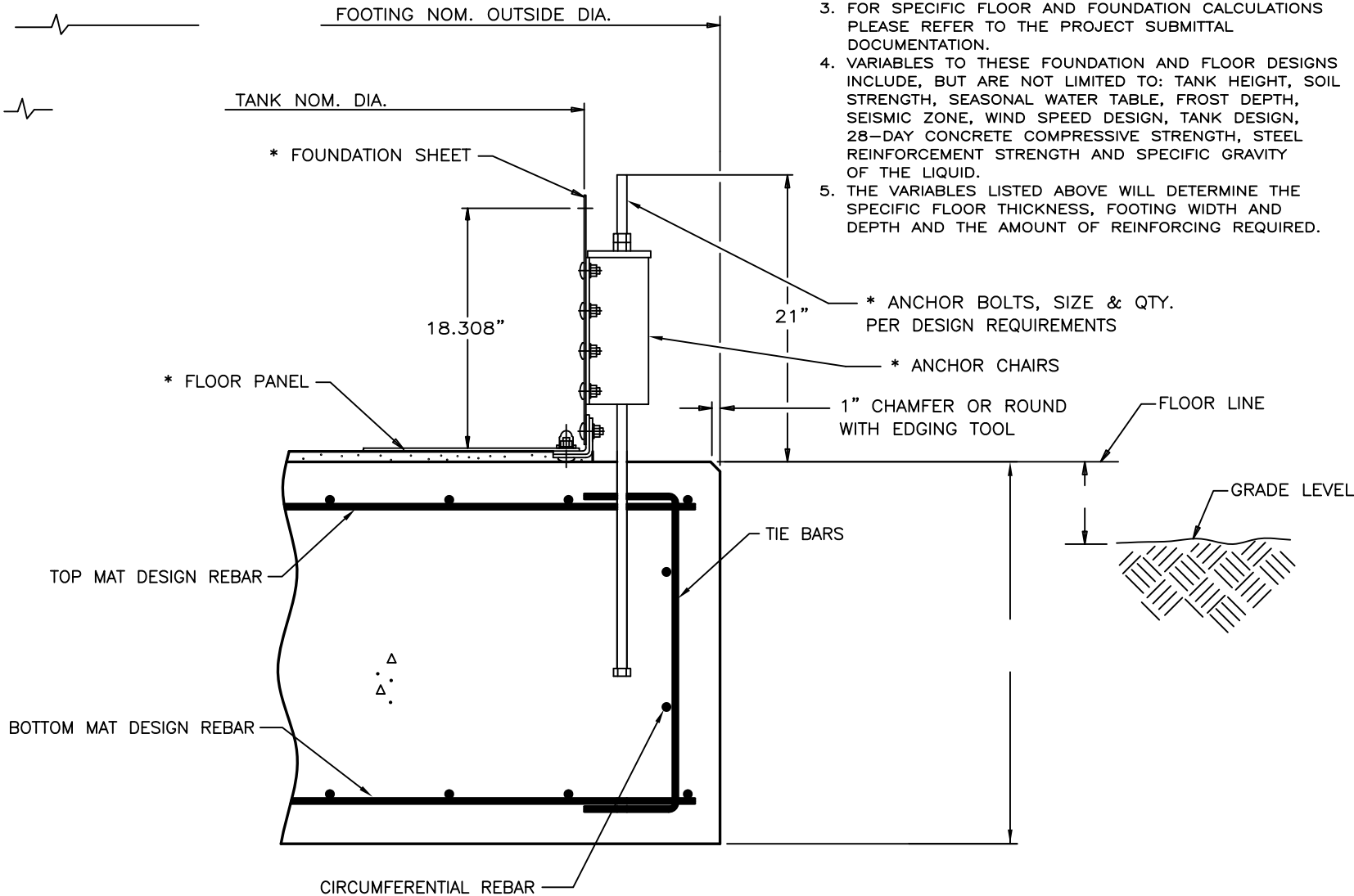
DRAWN BY TAK
 DATE 6/01

CONSTRUCTION DETAIL
STEEL FLOOR
 FOUNDATION
 11' DIA. AND LARGER
 TYPE "SFC"

DRWG NO. **266564**

GENERAL NOTES:

1. DRAWING IS NOT TO SCALE.
2. FOUNDATION AND FLOOR DESIGNS ARE PRELIMINARY AND CONCEPTUALLY REPRESENTED AS SALES DRAWINGS AND BASED ON: AWWA D103-97 SECTION 11.4.1.2 & 100 MPH WIND.
3. FOR SPECIFIC FLOOR AND FOUNDATION CALCULATIONS PLEASE REFER TO THE PROJECT SUBMITTAL DOCUMENTATION.
4. VARIABLES TO THESE FOUNDATION AND FLOOR DESIGNS INCLUDE, BUT ARE NOT LIMITED TO: TANK HEIGHT, SOIL STRENGTH, SEASONAL WATER TABLE, FROST DEPTH, SEISMIC ZONE, WIND SPEED DESIGN, TANK DESIGN, 28-DAY CONCRETE COMPRESSIVE STRENGTH, STEEL REINFORCEMENT STRENGTH AND SPECIFIC GRAVITY OF THE LIQUID.
5. THE VARIABLES LISTED ABOVE WILL DETERMINE THE SPECIFIC FLOOR THICKNESS, FOOTING WIDTH AND DEPTH AND THE AMOUNT OF REINFORCING REQUIRED.



SECTION THROUGH FOUNDATION

* THESE ITEMS TO BE SUPPLIED BY THE TANK MANUFACTURER

REL	DESCRIPTION	ECN DR. BY
3	UPDATED TITLE BLOCK	10249 DCS/MEK

TYPICAL CONDITIONS:
 LOW-HIGH SOIL STRENGTH
 LOW-HIGH SEISMIC
 TYPICAL HEIGHTS: 61'-139'

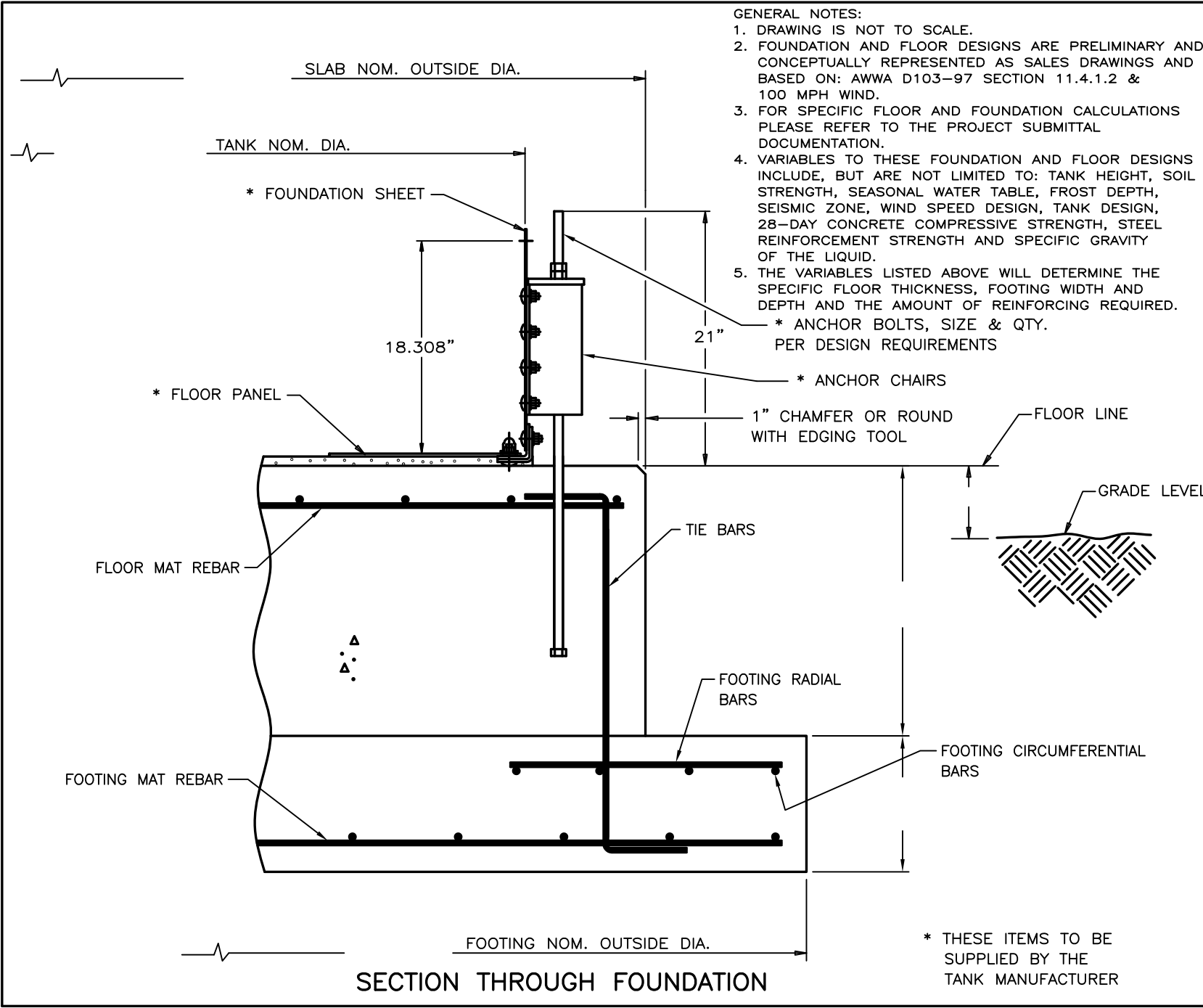


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DRAWN BY TAK
 DATE 6/01

CONSTRUCTION DETAIL
STEEL FLOOR
FOUNDATION
 11' DIA. AND LARGER
 TYPE "SFE"

DRWG NO. 266566



- GENERAL NOTES:
1. DRAWING IS NOT TO SCALE.
 2. FOUNDATION AND FLOOR DESIGNS ARE PRELIMINARY AND CONCEPTUALLY REPRESENTED AS SALES DRAWINGS AND BASED ON: AWWA D103-97 SECTION 11.4.1.2 & 100 MPH WIND.
 3. FOR SPECIFIC FLOOR AND FOUNDATION CALCULATIONS PLEASE REFER TO THE PROJECT SUBMITTAL DOCUMENTATION.
 4. VARIABLES TO THESE FOUNDATION AND FLOOR DESIGNS INCLUDE, BUT ARE NOT LIMITED TO: TANK HEIGHT, SOIL STRENGTH, SEASONAL WATER TABLE, FROST DEPTH, SEISMIC ZONE, WIND SPEED DESIGN, TANK DESIGN, 28-DAY CONCRETE COMPRESSIVE STRENGTH, STEEL REINFORCEMENT STRENGTH AND SPECIFIC GRAVITY OF THE LIQUID.
 5. THE VARIABLES LISTED ABOVE WILL DETERMINE THE SPECIFIC FLOOR THICKNESS, FOOTING WIDTH AND DEPTH AND THE AMOUNT OF REINFORCING REQUIRED.
- * ANCHOR BOLTS, SIZE & QTY. PER DESIGN REQUIREMENTS

REL	DESCRIPTION	ECN DR. BY
3	UPDATED TITLE BLOCK	10249 DCS/MEK

TYPICAL CONDITIONS:
 LOW-HIGH SOIL STRENGTH
 LOW-HIGH SEISMIC
 TYPICAL HEIGHTS: 61'-139'



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DRAWN BY TAK
 DATE 6/01

CONSTRUCTION DETAIL
STEEL FLOOR
FOUNDATION
 11' DIA. AND LARGER
 TYPE "SFF"

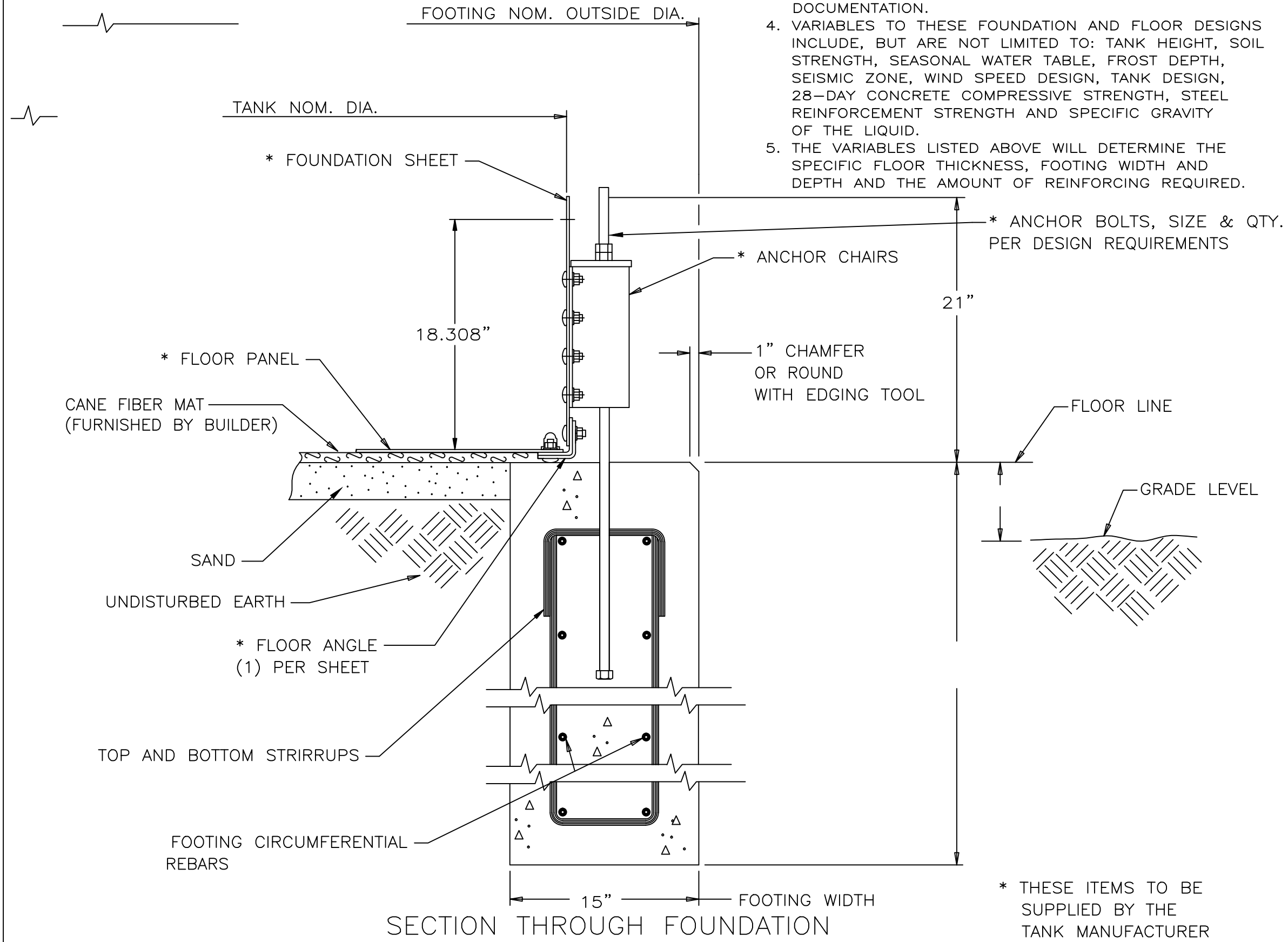
DRWG NO. **266567**

* THESE ITEMS TO BE SUPPLIED BY THE TANK MANUFACTURER

SECTION THROUGH FOUNDATION

- GENERAL NOTES:
1. DRAWING IS NOT TO SCALE.
 2. FOUNDATION AND FLOOR DESIGNS ARE PRELIMINARY AND CONCEPTUALLY REPRESENTED AS SALES DRAWINGS AND BASED ON: AWWA D103-97 SECTION 11.4.1.1 & 100 MPH WIND.
 3. FOR SPECIFIC FLOOR AND FOUNDATION CALCULATIONS PLEASE REFER TO THE PROJECT SUBMITTAL DOCUMENTATION.
 4. VARIABLES TO THESE FOUNDATION AND FLOOR DESIGNS INCLUDE, BUT ARE NOT LIMITED TO: TANK HEIGHT, SOIL STRENGTH, SEASONAL WATER TABLE, FROST DEPTH, SEISMIC ZONE, WIND SPEED DESIGN, TANK DESIGN, 28-DAY CONCRETE COMPRESSIVE STRENGTH, STEEL REINFORCEMENT STRENGTH AND SPECIFIC GRAVITY OF THE LIQUID.
 5. THE VARIABLES LISTED ABOVE WILL DETERMINE THE SPECIFIC FLOOR THICKNESS, FOOTING WIDTH AND DEPTH AND THE AMOUNT OF REINFORCING REQUIRED.

REL	DESCRIPTION	ECN DR. BY
2	UPDATED TITLE BLOCK	10249 DCS/MEK



TYPICAL CONDITIONS:
 GOOD SOIL STRENGTH
 LOWER SEISMIC
 TYPICAL HEIGHTS: 10'-38'



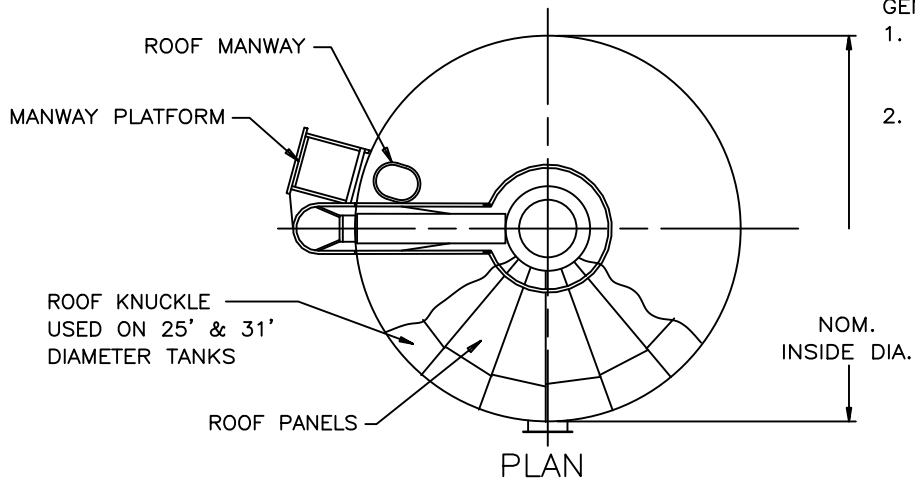
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DRAWN BY MMB
 DATE 9/08

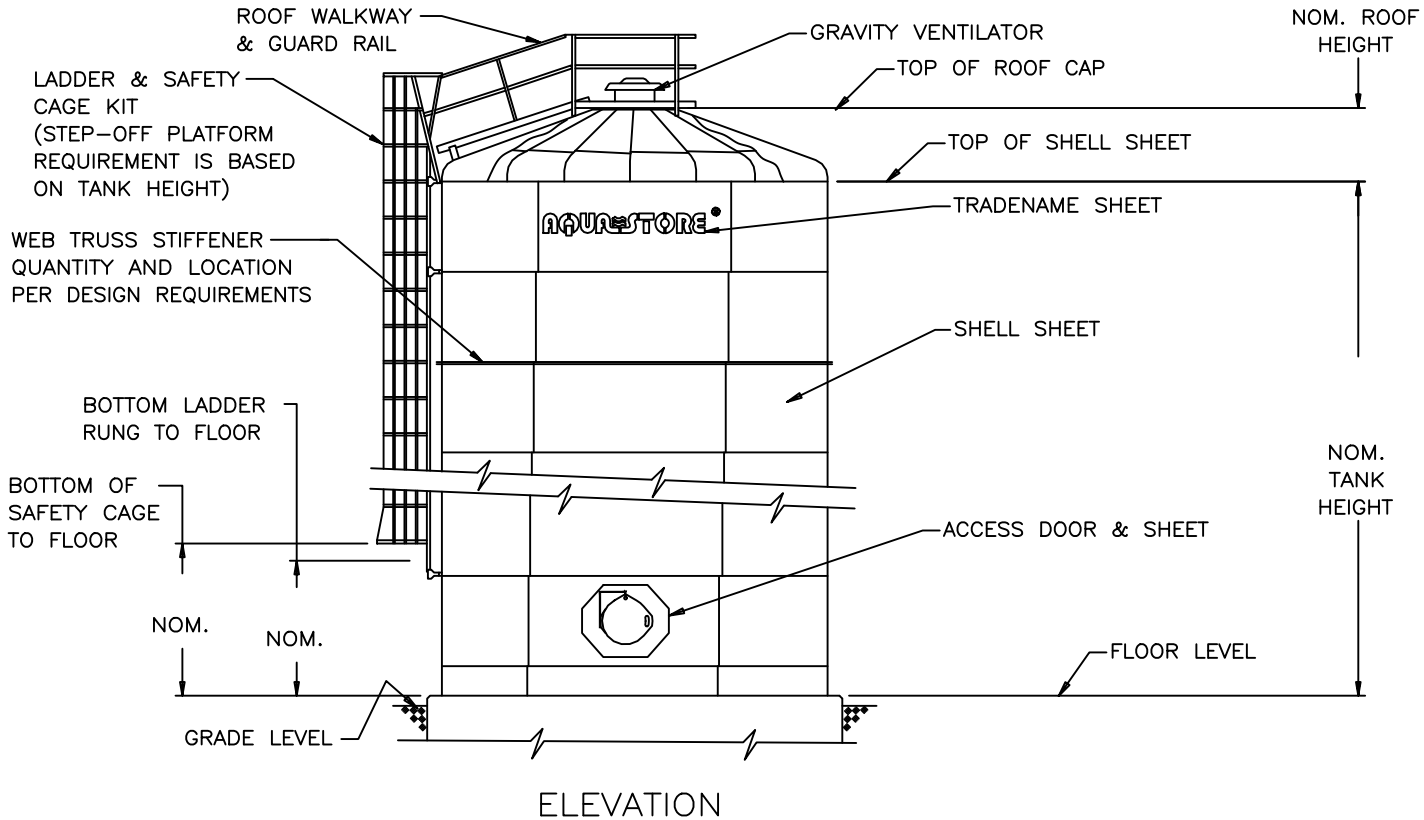
CONSTRUCTION DETAIL
 STEEL FLOOR
 FOUNDATION
 11' DIA. AND LARGER
 TYPE "SFG"

DRWG NO. 275365

* THESE ITEMS TO BE
 SUPPLIED BY THE
 TANK MANUFACTURER



- GENERAL NOTES:
1. FOR TANK DIMENSIONAL VALUES SEE "WATER & TREATMENT TANK GENERAL DIMENSIONS" DRAWING NO. 261375.
 2. FOR FOUNDATION CONFIGURATIONS AND CORRESPONDING CONSTRUCTION MATERIAL REQUIREMENTS REFER TO THE PROJECT SUBMITTAL DOCUMENTATION.



REL	DESCRIPTION	ECN DR. BY
6	UPDATED TITLE BLOCK	10249 DCS/MEK

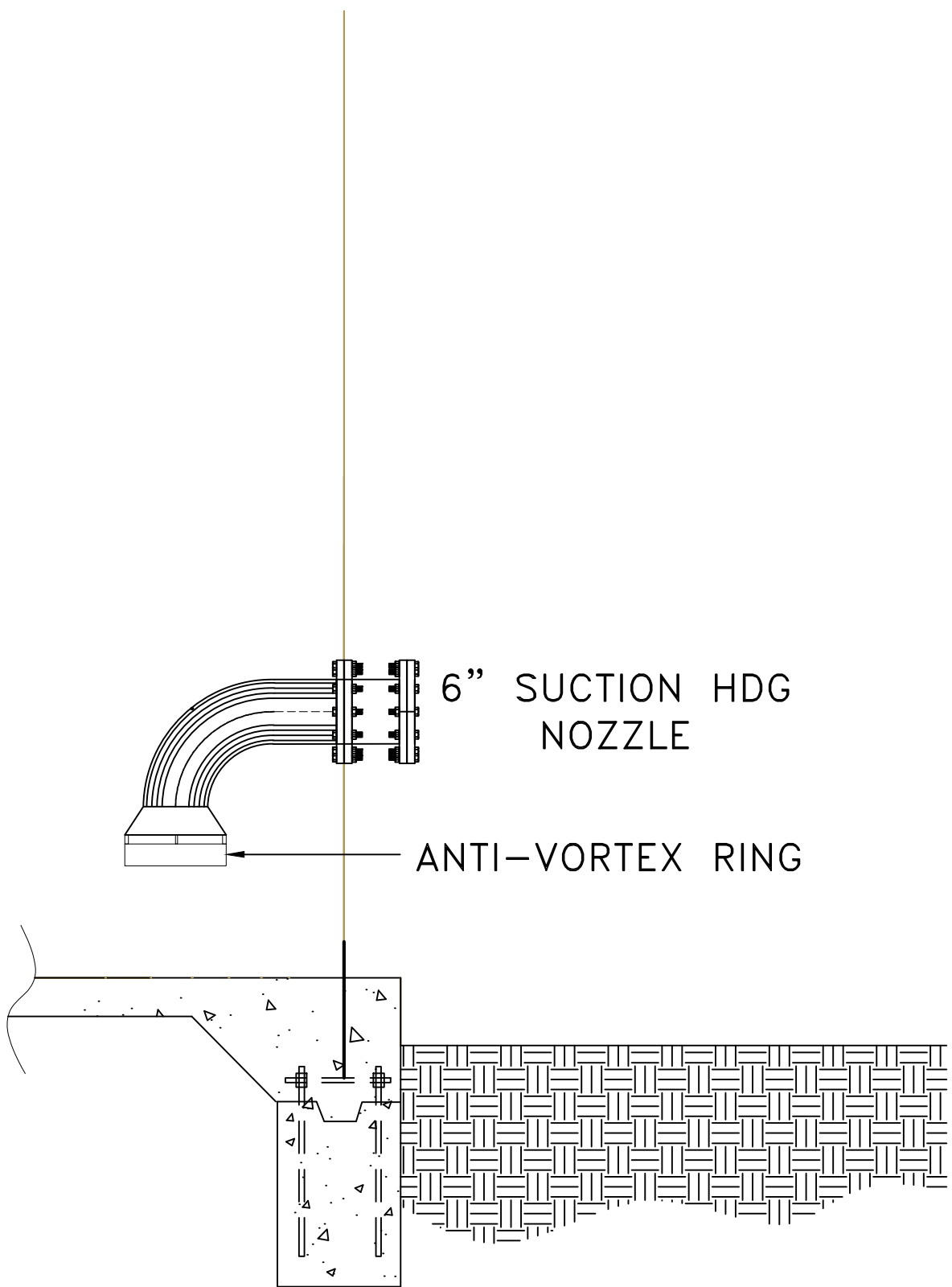
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DRAWN BY RKK
 DATE 5-8-90

CONSTRUCTION DETAIL
 WATER TANK
 WITH CONCRETE
 FOUNDATION
 14' THRU 31' DIA.

DRWG NO. 261351



6" SUCTION HDG NOZZLE

ANTI-VORTEX RING

General Notes

No.	Revision/Issue	Date

Firm Name and Address

Florida Aquastore
 4722 N.W. Boca Raton Blvd., Suite C102
 Boca Raton, Florida, 33431-6558, U.S.A

Project Name and Address
TYPICAL SUCTION NOZZLE DETAIL

Project	Sheet
Date 08.23.19	
Scale N.T.S.	