

\triangle	ADDENDUM 6	1/9/2017	www	
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No.	REVISIONS	DATE	BY	

Kimley» Horn

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655 NORTH FRANKLIN STREET, SUITE 150, TAMPA, FL 33602
PHONE: 813-620-1460
WWW.KIMLEY-HORN.COM CA 00000696

148400013

DATE
1/24/2017

SCALE AS SHOWN

DESIGNED BY WWW

DRAWN BY JWW

CHECKED BY WEW MANATEE COUNTY

NORTH WRF
EQUALIZATION TANK

W. WADE WOOD, P.E.

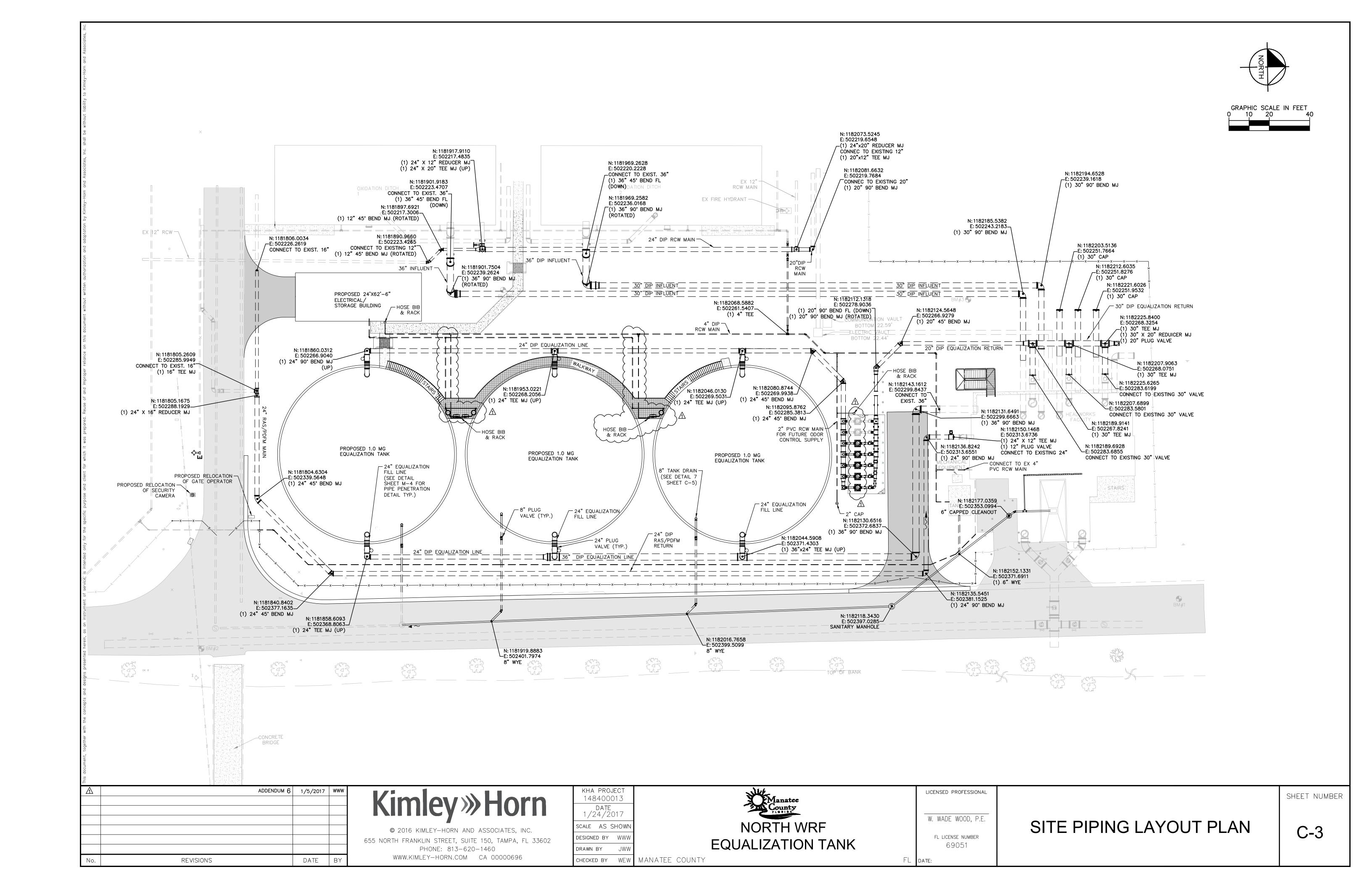
FL LICENSE NUMBER
69051

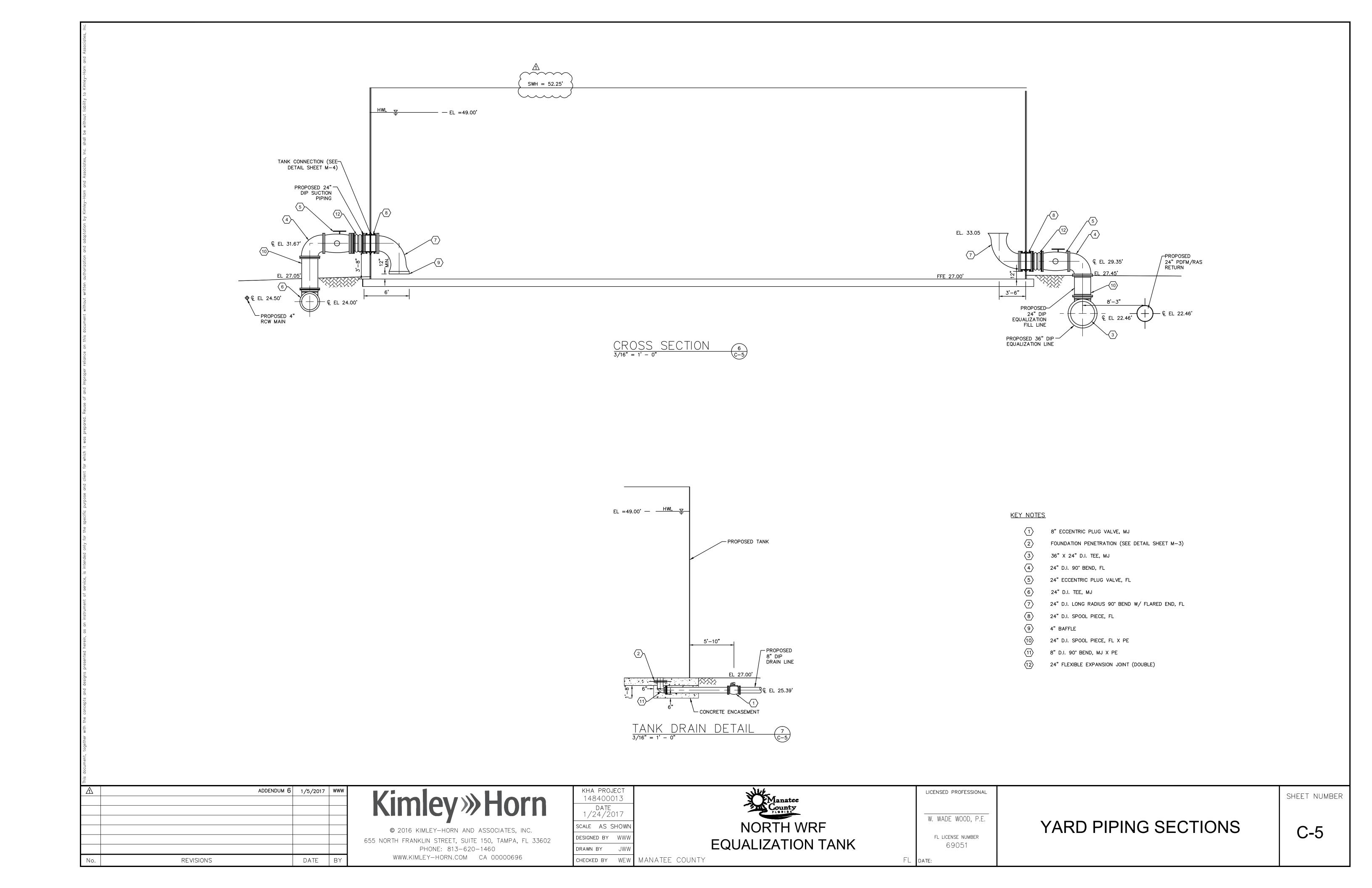
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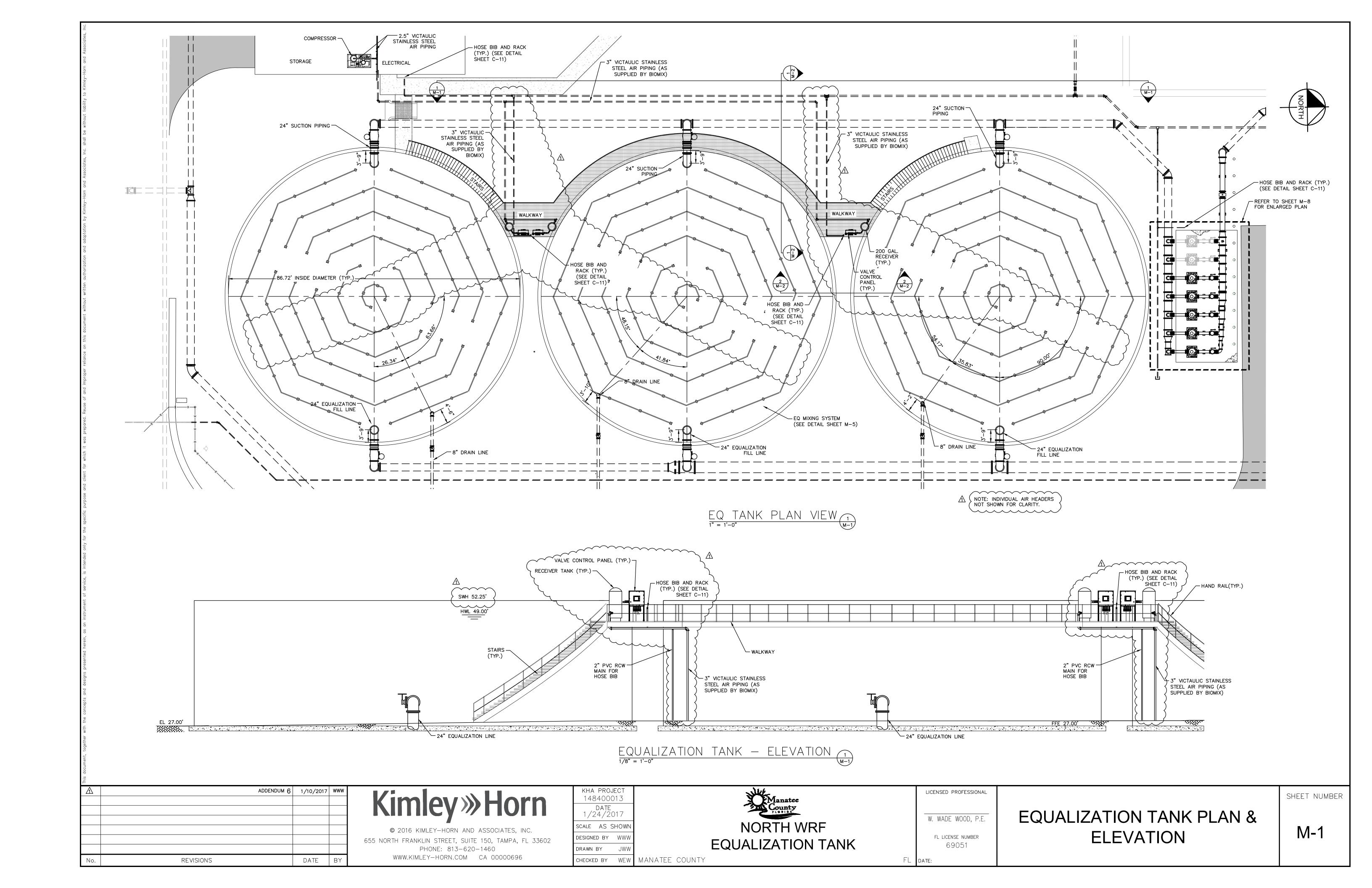
SITE PIPING PLAN

SHEET NUMBER

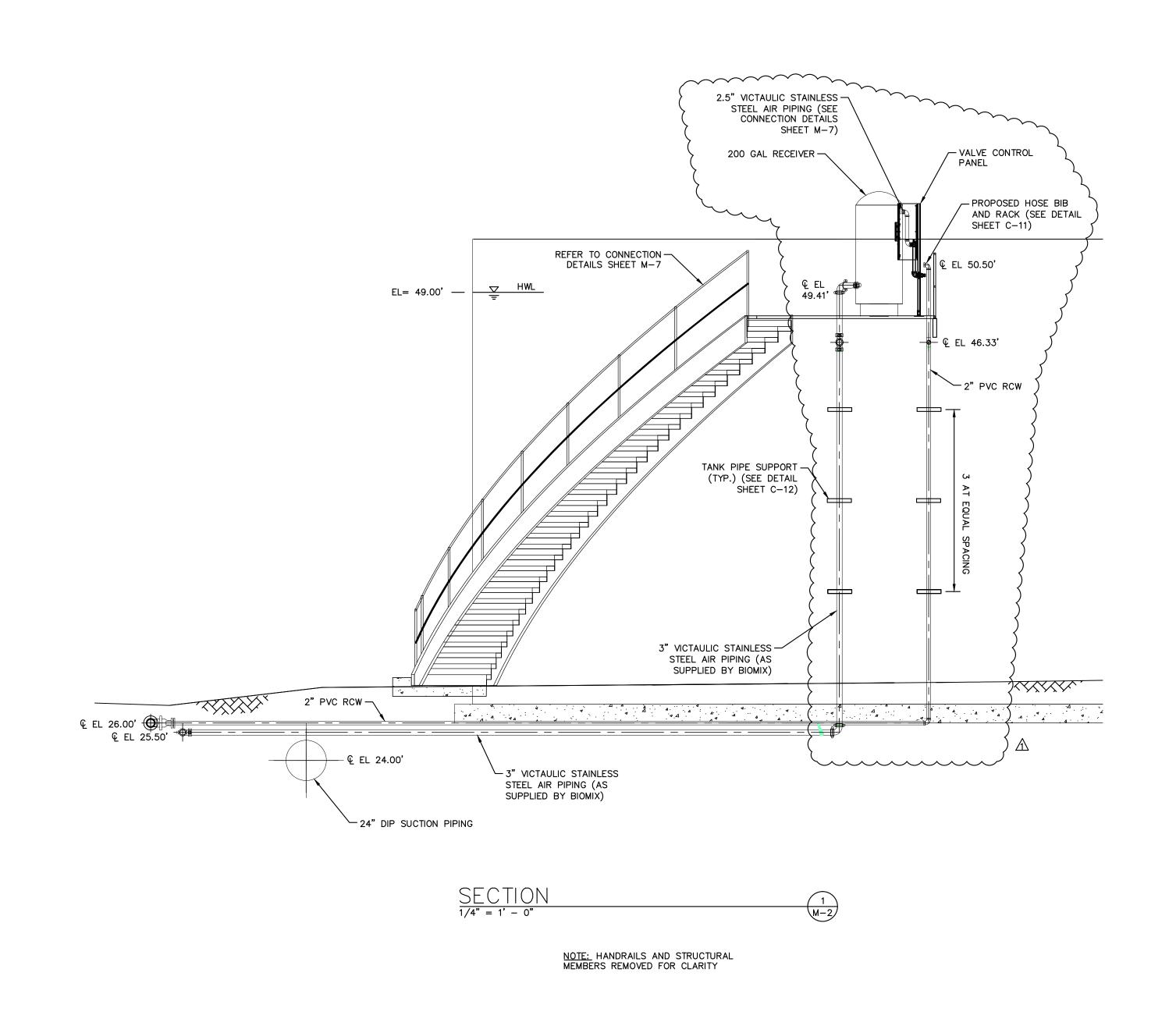
C-2

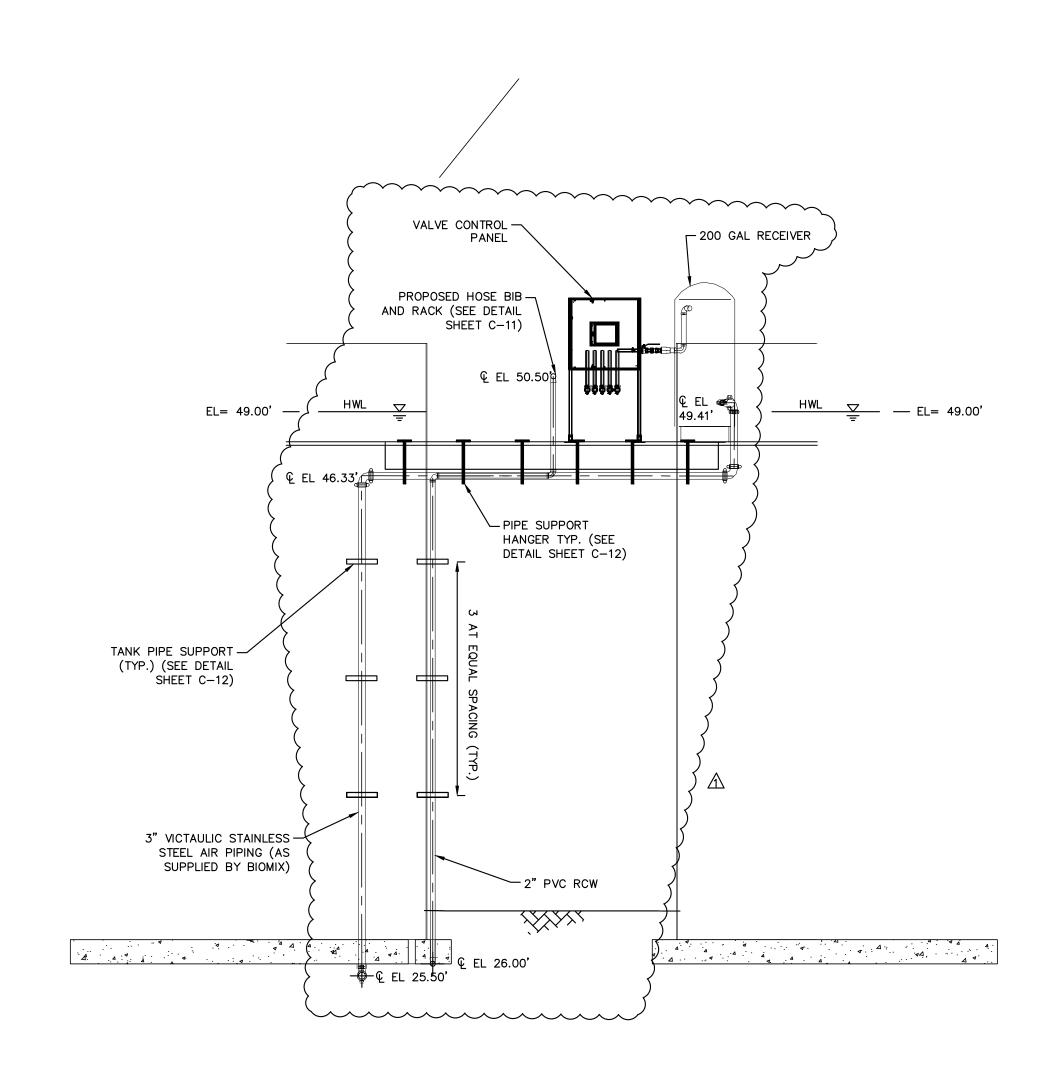












 $\frac{\text{SECTION}}{1/4" = 1' - 0"}$

NOTE: HANDRAILS AND STRUCTURAL MEMBERS REMOVED FOR CLARITY

\triangle	ADDENDUM 6	1/9/2017	www
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KHA PROJ 1484000			
DATE 1/24/20)17		
SCALE AS S	HOWN		
DESIGNED BY	WWW		
DRAWN BY	JWW		
CHECKED BY	WEW	MANATEE	COUNTY

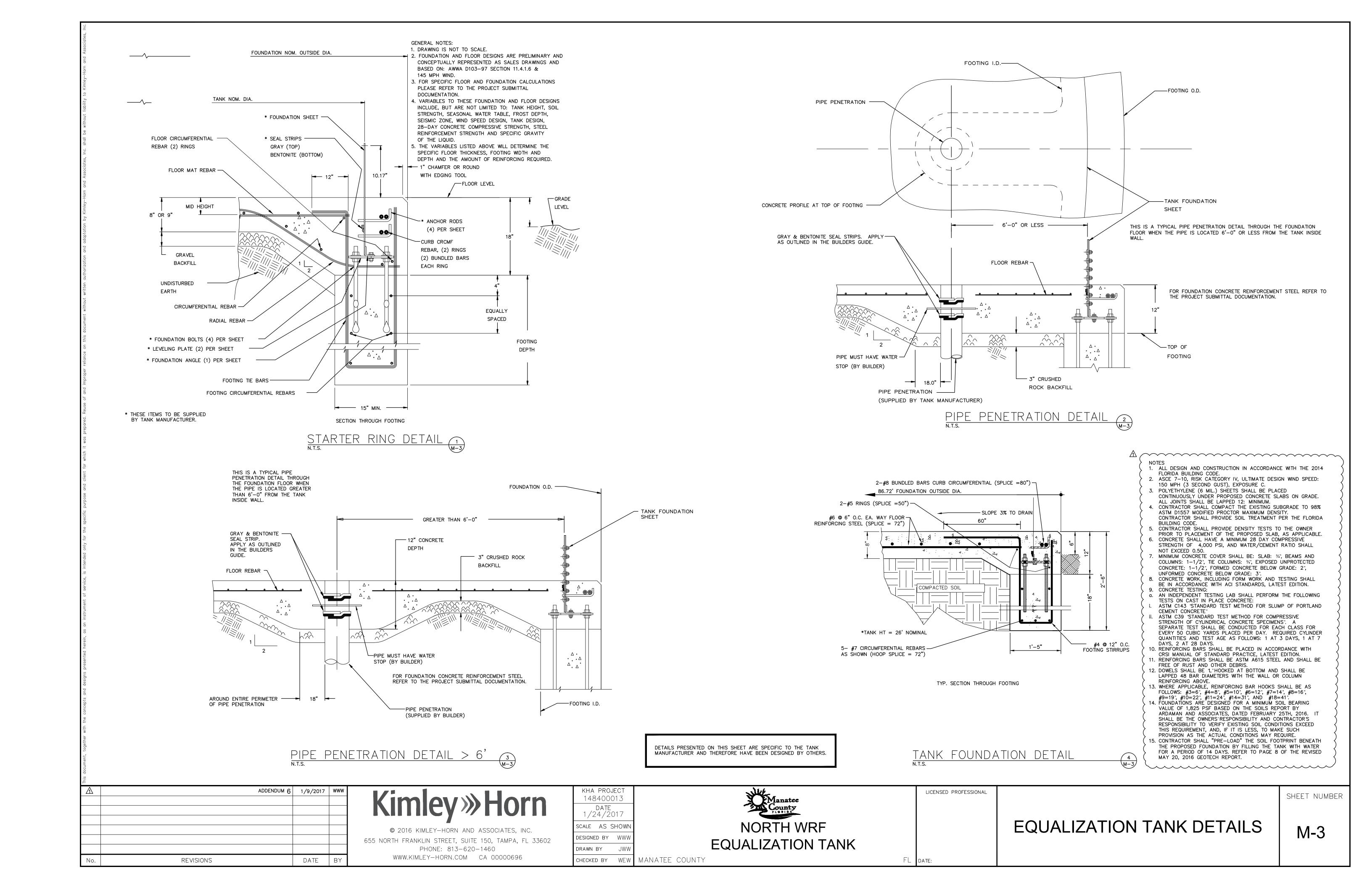
Manatee County FLORIBA	
NORTH WRF	
EQUALIZATION TANK	
TV	

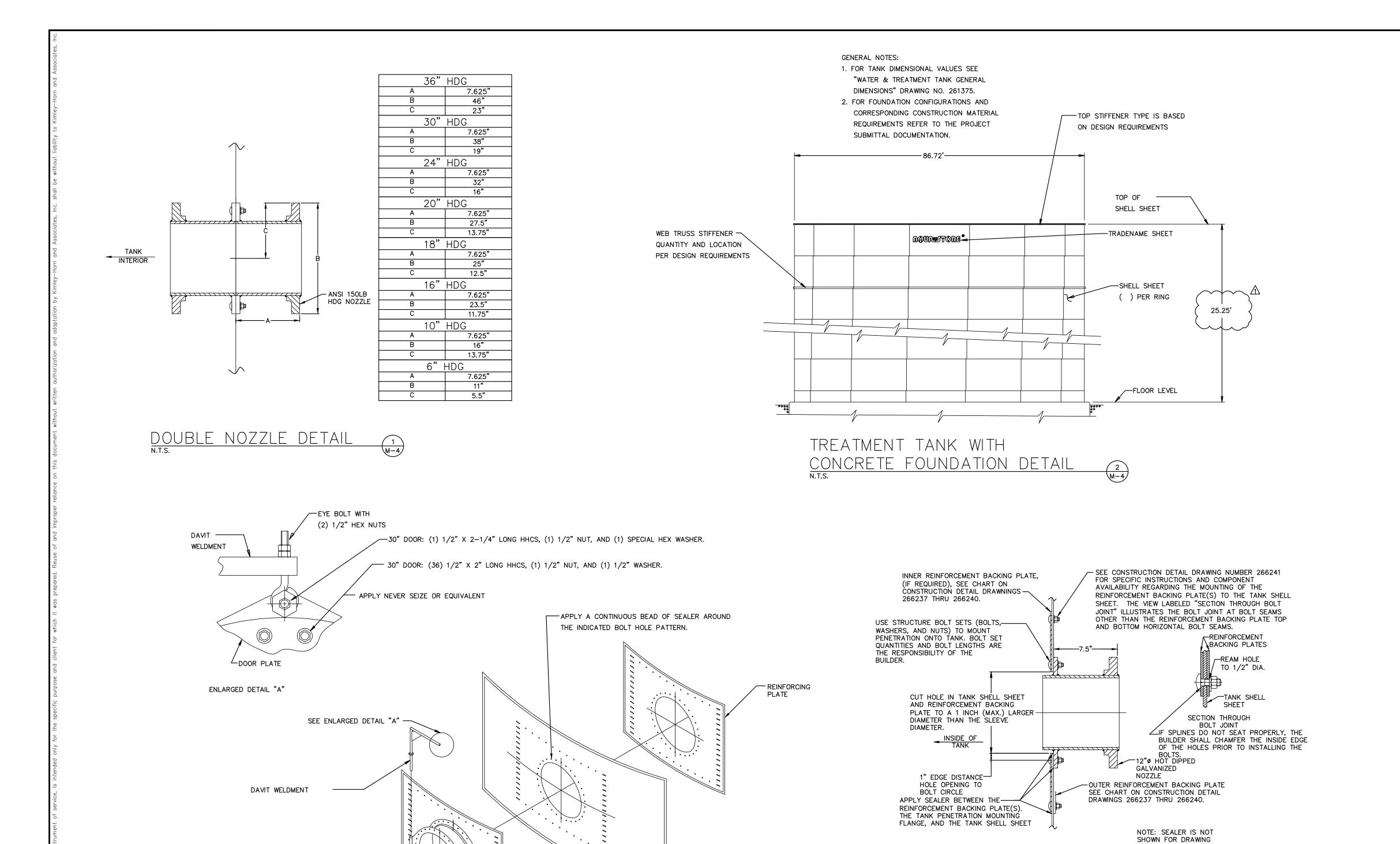
	LICENSED PROFESSIONAL		
	W. WADE WOOD, P.E.		
	FL LICENSE NUMBER		
	69051		
FL	DATE:		

AIR MIXING PIPE SECTION

SHEET NUMBER

M-2





DETAILS PRESENTED ON THIS SHEET ARE SPECIFIC TO THE TANK MANUFACTURER AND THEREFORE HAVE BEEN DESIGNED BY OTHERS.

\triangle	ADDENDUM 6	1/5/2017	www
No.	REVISIONS	DATE	BY

DOOR PLATE

SEE DRAWING NUMBER 270374 FOR THE NECK WELDMENT TO ACCESS DOOR SHEET BOLT JOINT.

- NECK WELDMENT

30" ROUND ACCESS DOORS DETAIL 3
N.T.S.

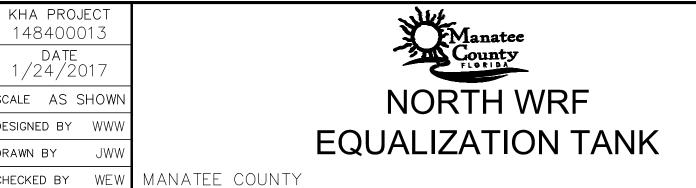
NOTE: CONTRACTOR SHALL COORDINATE WITH TANK MANUFACTURER TO PLACE THE CENTERLINE OF THE MANWAY 3-FT ABOVE FINISHED GRADE.

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KHA PROJECT 148400013 DATE 1/24/2017 SCALE AS SHOWN ESIGNED BY WWW

REINFORCED ACCESS DOOR

SHEET WELDMENT



TANK PENETRATION DETAIL 4
N.T.S.

LICENSED PROFESSIONAL

EQUALIZATION TANK DETAILS

SHEET NUMBER

M-4

STRUCTURAL NOTES

- 1. GENERAL:
- (A) PROTECT EXISTING FACILITIES, STRUCTURES AND UTILITY LINES FROM ALL DAMAGE. CONTRACTOR SHALL PROTECT THE WORK, ADJACENT PROPERTY, AND THE PUBLIC. CONTRACTOR IS SOLELY RESPONSIBLE FOR DAMAGE OR INJURY DUE TO HIS ACT OR NEGLECT.
- (B) THE CONTRACTOR IS SOLELY RESPONSIBLE FOR JOB SAFETY AND CONSTRUCTION PROCEDURES
- (C) PRIOR TO CONSTRUCTION, FIELD VERIFY ALL DIMENSIONS IN THE DRAWINGS AND DETAILS AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE ENGINEER.
- (D) REFER TO THE ENGINEER FOR INSTRUCTION FOR ANY DIMENSION NOT GIVEN ON DRAWINGS. SCALING OF DRAWINGS SHALL NOT BE USED TO OBTAIN OR VERIFY ANY DIMENSION SHOWN ON THE DRAWINGS.
- 2. CONCRETE:
- (A) ALL CONCRETE MATERIALS, PLACING AND HANDLING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI 318 AND ACI 301.
- (B) ALL STRUCTURAL CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4000 PSI (UNLESS OTHERWISE NOTED).
- (C) PROVIDE 3" CONCRETE COVER OVER REINFORCING BARS EXCEPT AS OTHERWISE
- (D) FORM TIES AND REINFORCING BAR SUPPORTS SHALL BE OF NON—CORROSIVE MATERIAL INCLUDING, BUT NOT LIMITED TO, FIBERGLASS, PLASTIC, AND/OR PRECAST CONCRETE MEETING THESE SPECIFICATIONS.
- (E) CONCRETE FINISHES:
 - FORMED SURFACE—SMOOTH FORM FINISH PER ACI 301.
 BROOM FINISH FOR SLAB ON GRADE SUCH AS ODOR CONTROL TANK SLAB, PUMP PAD SLAB, AND STAIR LANDINGS.
- (F) ALL GROUT SHALL BE NON-SHRINK, NON-METALLIC.
- (G) CONCRETE SHALL BE CURED IMMEDIATELY AFTER FINISHING OPERATIONS IN ACCORDANCE WITH ONE OF THE FOLLOWING METHODS:

 1. APPLY A LIQUID MEMBRANE CHEMICAL CURING COMPOUND IN ACCORDANCE WITH ASTM C-309.

 2. WET CURE IN ACCORDANCE WITH ACI 301.
- (H) ALL CONCRETE CONSTRUCTION SHALL BE DONE IN THE DRY.
- (I) PROVIDE 3/4" CHAMFER ON ALL EXPOSED EDGES UNLESS OTHERWISE NOTED.
- (J) CONCRETE SHALL BE IN ACCORDANCE WITH ASTM C94: 1. TYPE II PORTLAND CEMENT — ASTM C150
- 2. AGGREGATES (3/4" MAX.) ASTM C33
- 3. USE OF CALCIUM CHLORIDE IS NOT PERMITTED
 - 4. AIR ENTRAINING (4% MAX.) ASTM C260 5. WATER REDUCING — ASTM C494
 - 6. WATER CLEAN AND POTABLE
 - 7. MAXIMUM WATER CEMENT RATIO FOR 4,000 PSI, 28-DAY COMPRESSIVE STRENGTH = 0.45
- (K) REQUIRED SLUMP: 2" TO 4"
- (L) CONTRACTOR IS RESPONSIBLE FOR THE PROPER DESIGN AND CONSTRUCTION OF ALL FORMWORK AND SHORING. DESIGN SHALL BE PERFORMED BY A LICENSED FLORIDA PROFESSIONAL ENGINEER.
- (M) A QUALIFIED TESTING LABORATORY SHALL BE RETAINED TO PERFORM THE FOLLOWING CONCRETE TESTS:

 1. CYLINDER STRENGTH TESTS ASTM C39. ONE SET OF FIVE CYLINDERS FOR EACH

50 CUBIC YARDS OR FRACTION THEREOF PLACED. TEST ONE AT 3 DAYS, ONE AT 7 DAYS, TWO AT 28 DAYS, AND HOLD ONE.

- 2. SLUMP TESTS ASTM C143
- (N) ONE COPY OF ALL TEST REPORTS SHALL BE SENT DIRECTLY TO OWNER, ENGINEER, AND CONTRACTOR.
- (P) CONCRETE SHALL BE PLACED WITHIN 90 MINUTES OF BATCH TIME
- (Q) ALL CONCRETE SHALL BE CONSOLIDATED IN PLACE USING INTERNAL VIBRATORS
- (R) SUBMITTALS:
- 1. SUBMIT PROPOSED CONCRETE MIX DESIGN PRIOR TO CONSTRUCTION
 2. SUBMIT DETAILED SHOP DRAWINGS OF REINFORCING BARS SHOWING NUMBER, SIZE, AND LOCATION. INCLUDE BAR LISTS AND BEND DIAGRAMS.
- 3. REINFORCEMENT:
- (A) REINFORCING STEEL SHALL BE A.S.T.M. A-615 WITH SUPPLEMENT, GRADE 60: MINIMUM WORKING STRESS 24,000 PSI.
- (B) ALL REINFORCEMENT SHALL BE UNCOATED (BLACK).
- (C) ALL DIMENSIONS PERTAINING TO LOCATION OF REINFORCING BARS ARE TO CENTERLINE OF BARS EXCEPT WHERE THE CLEAR DIMENSION IS SHOWN TO FACE OF CONCRETE.
- (D) ACI STANDARD HOOKS SHALL BE USED UNLESS OTHERWISE NOTED.
- (E) ALL LAP AND SPLICE LENGTHS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI 318 AND CRSI STANDARD PRACTICES, EXCEPT AS OTHERWISE NOTED.

- 4. FOUNDATIONS:
- (A) A GEOTECHNICAL REPORT OF SUBSURFACE CONDITIONS HAS BEEN PREPARED BY ARDAMAN & ASSOCIATES, INC. (DATED FEBRUARY 25, 2016, FILE # 15-7337). ANY ADDITIONAL GEOTECHNICAL WORK WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- (B) NOTIFY THE ENGINEER IMMEDIATELY OF ANY EXISTING FOUNDATION CONDITIONS OR DETAILS THAT ARE IN CONFLICT WITH THOSE INDICATED AND SHOWN IN THE DRAWINGS.
- (C) ADHERE TO THE RECOMMENDATIONS MADE IN THE SOIL PREPARATION SECTION OF THE GEOTECHNICAL REPORT.
- (D) ALL FILL AND COMPACTION SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT.
- (E) ASSUMED SOIL BEARING PRESSURE = 1,825 PSF. CONTRACTOR'S TESTING LABORATORY SHALL CONFIRM SOIL PREPARATION PROCEDURES AND SPECIFY COMPACTION REQUIREMENTS NECESSARY TO OBTAIN THE DESIGN SOIL BEARING PRESSURE.
- 5. STRUCTURAL ALUMINUM:
- (A) STRUCTURAL ALUMINUM SHALL BE 6061-T6 ALLOY, UNLESS OTHERWISE NOTED.
- (B) ALUMINUM WORK SHALL BE IN ACCORDANCE WITH THE ALUMINUM ASSOCIATION'S SPECIFICATIONS FOR ALUMINUM STRUCTURES, LATEST EDITION.
- (C) FASTENERS: UNLESS NOTED OTHERWISE, ALL FASTENERS SHALL BE 316 STAINLESS STEEL MEETING THE REQUIREMENTS OF ASTM A193.
- (D) ALL WELDING SHALL CONFORMS WITH AWS D1.2, LATEST STRUCTURAL WELDING CODE ALUMINUM.
- (E) ALL FILLET WELDS SHALL HAVE A MINIMUM SIZE OF 1/4" WITH 5356 FILLER ALLOY UNLESS OTHERWISE NOTED.
- (F) PROVIDE NON-SLIP ALUMINUM STAIR TREADS WITH A MINIMUM LIVE LOAD CAPACITY OF 100 PSF.
- (G) PROVIDE SHOP DRAWINGS FOR ALUMINUM FRAMING PRIOR TO FABRICATION AND INSTALLATION.
- (H) WHERE THE CONTACT OF DISSIMILAR MATERIALS MAY CAUSE ELECTROLYSIS OR WHERE ALUMINUM WILL COME IN CONTACT WITH CONCRETE, MORTAR, GROUT, OR PLASTER, THE CONTACT SURFACE OF THE ALUMINUM SHALL BE COATED WITH ONE HEAVY COAT OF BITUMINOUS PAINT.

100 PSF

DESIGN CRITERIA:

CODE:

2014 FLORIDA BUILDING CODE WITH SUPPLEMENTS
DEAD LOAD (GRATING): 5 PSF
LIVE LOADS:
A. WALKWAY 60 PSF

B. STAIRS
WIND LOAD:
BASIC WIND SPEED

BASIC WIND SPEED 145 MPH EXPOSURE C RISK CATEGORY II

ADDENDUM 6 1/9/2017 WWW

No. REVISIONS DATE BY

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KHA PROJECT
148400013

DATE
1/24/2017

SCALE AS SHOWN

DESIGNED BY SMT

DRAWN BY SM⁻

CHECKED BY SES MANATEE COUNTY

NORTH WRF EQUALIZATION TANK

SETH E. SCHMID, P.E.

FL LICENSE NUMBER

54640

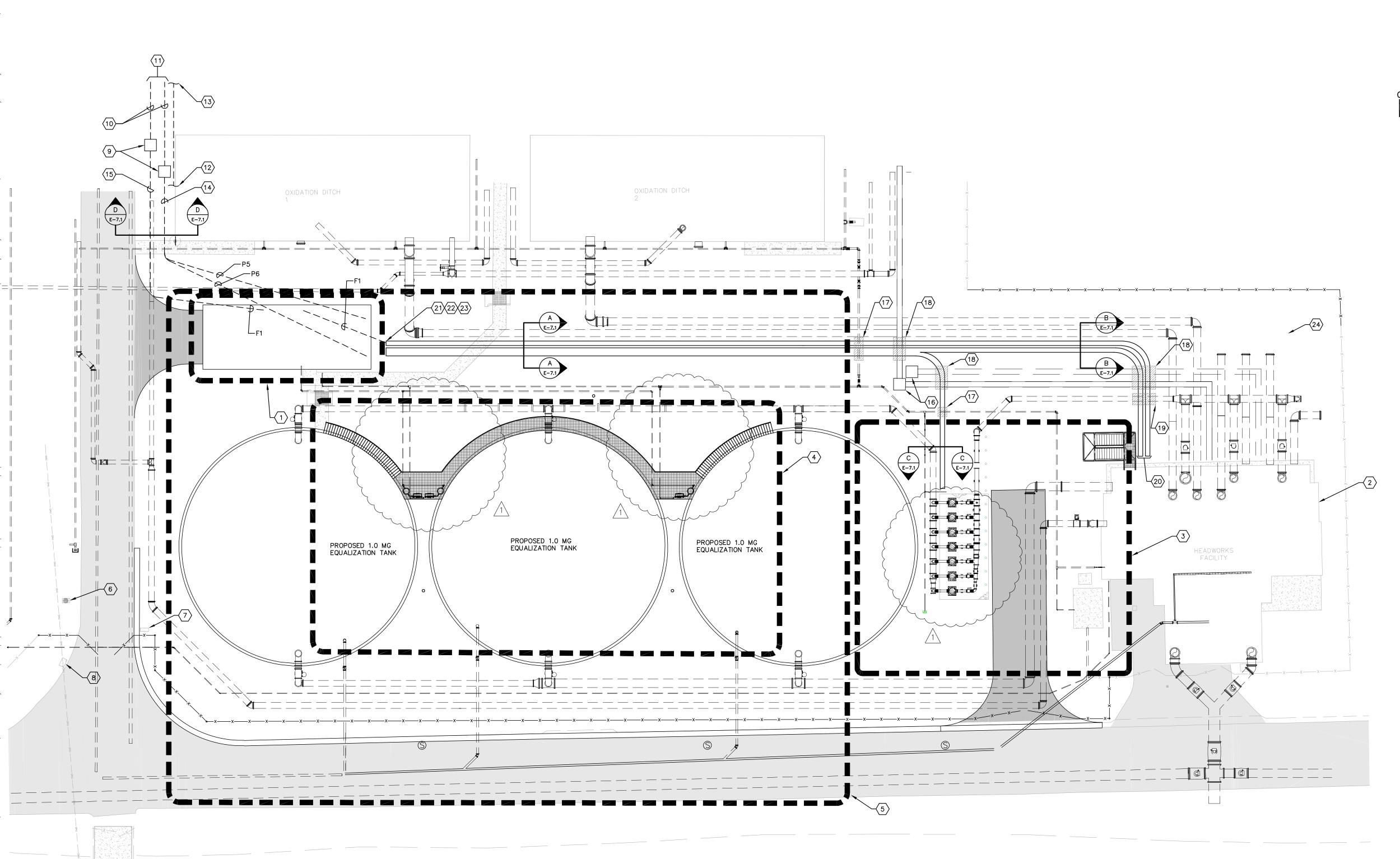
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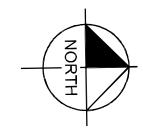
LICENSED PROFESSIONAL

STRUCTURAL NOTES

SHEET NUMBER

S-1





GRAPHIC SCALE IN FEET 0 10 20 40



KEY NOTES:

- $\begin{array}{c} \hline 1 \end{array}$ PROPOSED ELECTRICAL AND STORAGE BUILDING. REFER TO SHEET E-1.1 FOR DETAILS.
- FOR WORK REQUIRED IN THE EXISTING HEADWORKS AREA (HEADWORKS TO REMAIN) REFER TO SHEET E-3.1.
- FOR WORK REQUIRED IN THE RETURN PUMP PAD AREA REFER TO
- FOR WORK REQUIRED AT THE EQUALIZATION TANK WALKWAY AREA
- REFER TO SHEET E-4.1.
- 5 FOR TANK AND PLATFORM GROUNDING REFER TO SHEET 0.5.
- RELOCATED SECURITY CAMERA AT ENTRY GATE. REFER TO SHEET E-0.3 FOR WORK REQUIRED.
- RELOCATED GATE OPERATOR. REFER TO SHEET E-0.3 FOR WORK REQUIRED.
- 8 RELOCATED KEY PAD AT ENTRY GATE. REFER TO SHEET E-0.3 FOR WORK REQUIRED.
- CONTRACTOR TO INTERCEPT EXISTING DUCTBANKS TO HEADWORKS AND INSTALL NEW HANDHOLES (PHH #5 AND CHH #5 RESPECTIVELY) FOR NEW POWER AND COMMUNICATIONS DUCTBANKS TO NEW ELECTRICAL/STORAGE BUILDING. EXACT LOCATION OF EXISTING DUCTBANKS IS UNKNOWN. CONTRACTOR TO FIELD VERIFY. CONTRACTOR SHALL INTERCEPT EXISTING DUCTBANKS AT THE MOST CONVENIENT LOCATION BASED ON FIELD CONDITIONS. REFER ALSO TO SHEETS E-0.2 AND E-1.1 FOR WORK REQUIRED. REFER TO SHEET E-7.1 FOR DUCTBANK SECTIONS AND SHEET E-9.3 FOR NEW HANDHOLE DETAILS.
- $\langle 10 \rangle$ EXISTING POWER AND COMMUNICATION DUCTBANKS TO REMAIN.
- $\langle 11 \rangle$ FOR CONTINUATION REFER TO SHEET E-0.2.
- (12) EXISTING BASIN LIGHTING CIRCUITS FROM BASIN JUNCTION BOX (REFER TO SHEET E-0.2) TO EXISTING HEADWORKS FACILITY TO BE DEMOLISHED. EXACT LOCATION AND ROUTING OF CIRCUITS IS UNKNOWN. CONTRACTOR TO FIELD VERIFY. CONTRACTOR TO INTERCEPT EXISTING CIRCUITS AT THE MOST CONVENIENT LOCATION BASED ON EXISTING FIELD CONDITIONS. CONTRACTOR SHALL PROVIDE AND INSTALL NEW BASIN LIGHTING CIRCUITS FROM NEW LIGHTING CONTROL CABINET IN NEW ELECTRICAL AND STORAGE BUILDING.
- CONTINUES TO BASIN JUNCTION BOX. REFER TO SHEET E-0.2 FOR
- 14) NEW DUCTBANK FOR ELECTRICAL AND STORAGE BUILDING POWER FEEDERS.
- NEW DUCTBANK FOR ELECTRICAL AND STORAGE BUILDING FIBER COMMUNICATIONS CABLE.
- (16) EXISTING POWER HANDHOLE PHH #1 AND COMMUNICATIONS HANDHOLE
- NEW DUCTBANKS TO BE INSTALLED BENEATH NEW 6" RECLAIMED WATER MAIN. BOTTOM OF WATER MAIN TO BE APPROXIMATELY 3'-0" BELOW GRADE. COORDINATE WITH CIVIL DRAWINGS. CONTRACTOR SHALL HANG DIG IN THE AREA.
- NEW DUCTBANKS TO BE INSTALLED BENEATH EXISTING POWER AND COMMUNICATIONS DUCTBANKS. RECORD DRAWINGS INDICATE BOTTOM OF EXISTING DUCTBANKS ARE INSTALLED APPROXIMATELY 3'-0" BELOW GRADE. CONTRACTOR TO FIELD VERIFY. CONTRACTOR SHALL HANG DIG IN THE AREA.
- NEW DUCTBANKS TO BE INSTALLED BENEATH NEW 20" DIP EQUALIZATION RETURN. BOTTOM OF 20" DIP EQUALIZATION RETURN TO BE APPROXIMATELY 52" BELOW GRADE. COORDINATE WITH CIVIL DRAWINGS. CONTRACTOR SHALL HANG DIG IN THE AREA.
- FOR TRANSITION FROM DUCTBANK TO JUNCTION BOXES REFER TO HEADWORKS ELECTRICAL DRAWINGS ON SHEET E-3.1 AND DETAILS ON SHEET E-9.4.
- 21) PROVIDE AND INSTALL TWO (2) 2" SPARE CONDUITS FROM MCC-1B, NORTH TO 10' BEYOND FUTURE HEADWORK PIPING. REFER ALSO TO DUCTBANK SECTIONS ON SHEET E-7.1 AND NOTE # 24 ON THIS SHEET. INSTALL MULE TAPE, CAP, AND MARK FOR FUTURE INJECTION/MONITORING WELL USE.
- PROVIDE AND INSTALL TWO (2) 2" SPARE CONDUITS FROM MCC-2B, NORTH TO 10' BEYOND FUTURE HEADWORK PIPING. REFER ALSO TO DUCTBANK SECTIONS ON SHEET E-7.1 AND NOTE # 24 ON THIS SHEET. INSTALL MULE TAPE, CAP, AND MARK FOR FUTURE INJECTION/MONITORING WELL USE.
- PROVIDE AND INSTALL ONE (1) 2" SPARE CONDUIT FROM PLC CABINET, NORTH TO 10' BEYOND FUTURE HEADWORK PIPING. REFER ALSO TO DUCTBANK SECTIONS ON SHEET E-7.1 AND NOTE # 24 ON THIS SHEET. INSTALL MULE TAPE, CAP, AND MARK FOR FUTURE INJECTION/MONITORING WELL USE.
- TERMINATE FIVE (5) 2" SPARE CONDUITS 10' BEYOND FUTURE HEADWORK PIPING. REFER ALSO TO DUCTBANK SECTIONS ON SHEET E-7.1. INSTALL MULE TAPE, CAP, AND MARK FOR FUTURE INJECTION/MONITORING WELL USE.

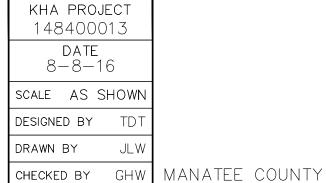
GENERAL NOTES:

- DUCTBANK ROUTING SHOWN DIAGRAMMATICALLY FOR CLARITY. CONTRACTOR SHALL FIELD ROUTE BASED ON EXISTING FIELD CONDITIONS. COORDINATE WITH ALL UTILITIES.
- 2. DUCTBANK TRANSITIONS TO NEW PUMP PAD, NEW ELECTRICAL AND STORAGE BUILDING, ETC. NOT DETAILED FOR CLARITY. CONTRACTOR SHALL BEGIN/END DUCTBANK AS REQUIRED TO ACCOMMODATE THE REQUIRED CONDUIT TRANSITIONS FROM THE NEW PUMP PAD MOTORS, NEW MOTOR CONTROL CENTERS, ETC.

1	ADDENDUM 6	1-9-2017	TDT
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TIMOTHY THOMAS, P.E.

FL LICENSE NUMBER

47079

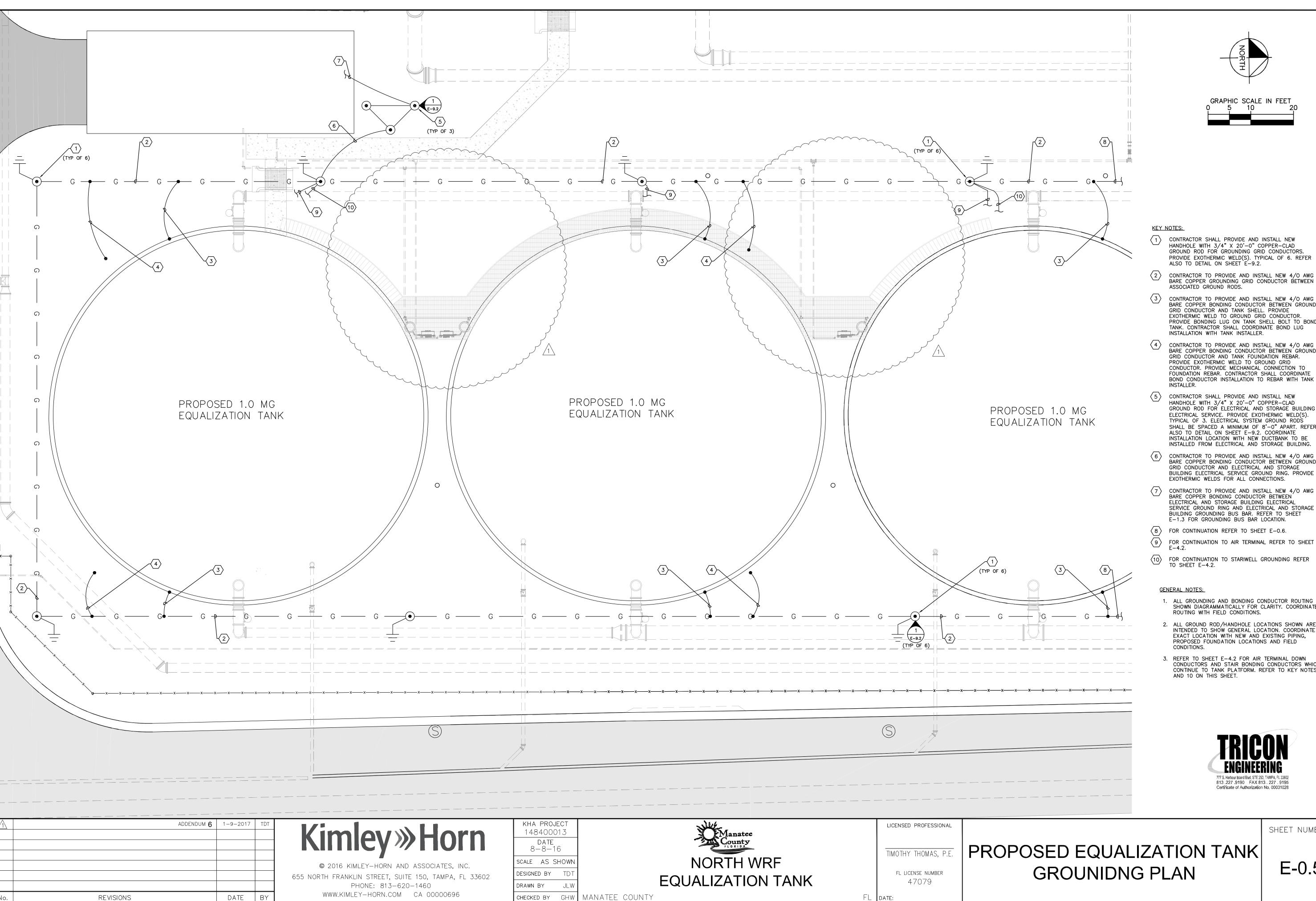
FL DATE:

LICENSED PROFESSIONAL

PROPOSED EQUALIZATION
TANKS SITE PLAN

E-0.4

SHEET NUMBER



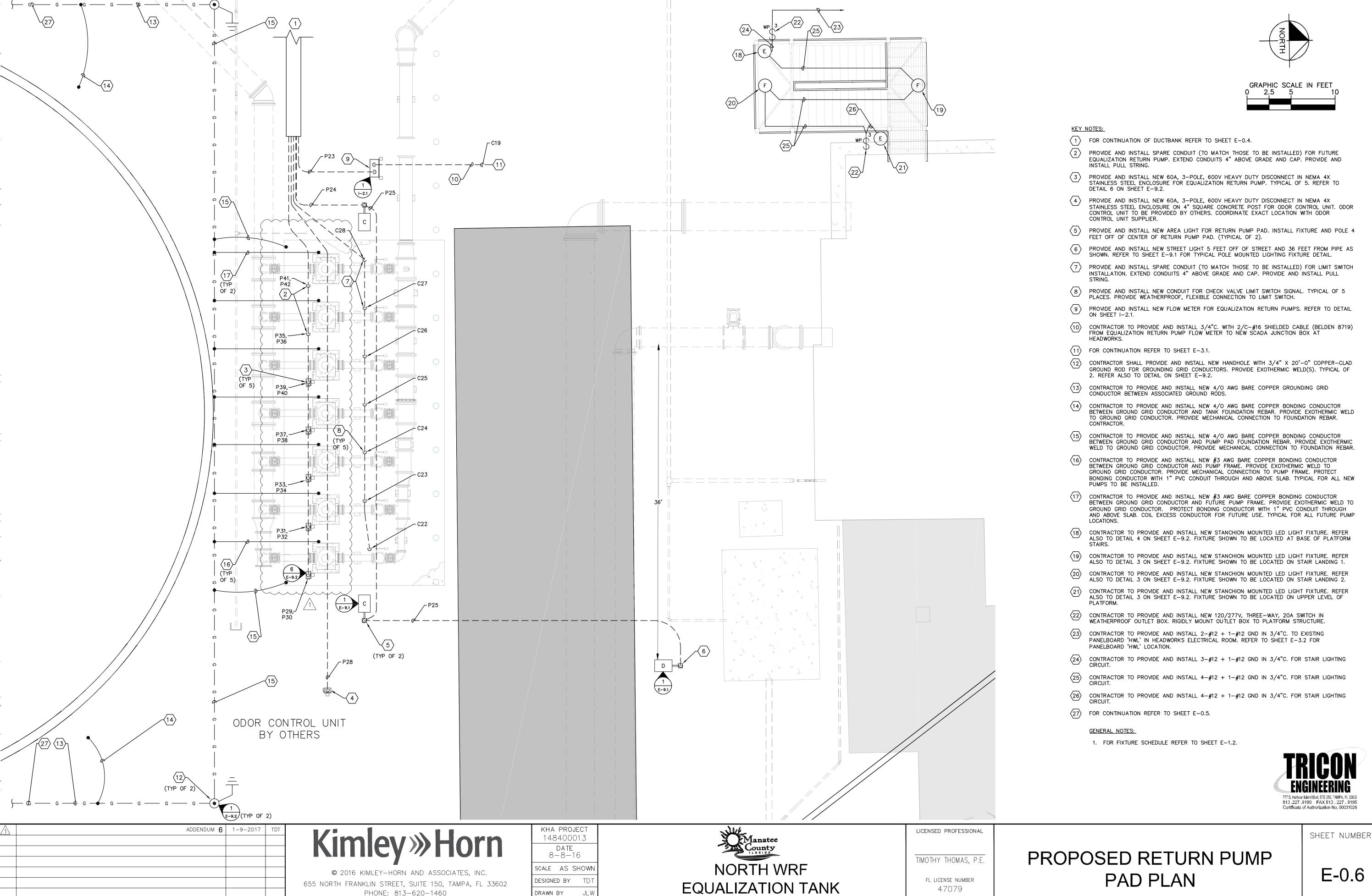
- (1) CONTRACTOR SHALL PROVIDE AND INSTALL NEW HANDHOLE WITH 3/4" X 20'-0" COPPER-CLAD GROUND ROD FOR GROUNDING GRID CONDUCTORS. PROVIDE EXOTHERMIC WELD(S). TYPICAL OF 6. REFER ALSO TO DETAIL ON SHEET E-9.2.
- CONTRACTOR TO PROVIDE AND INSTALL NEW 4/O AWG BARE COPPER GROUNDING GRID CONDUCTOR BETWEEN ASSOCIATED GROUND RODS.
- 3 CONTRACTOR TO PROVIDE AND INSTALL NEW 4/O AWG BARE COPPER BONDING CONDUCTOR BETWEEN GROUND GRID CONDUCTOR AND TANK SHELL. PROVIDE EXOTHERMIC WELD TO GROUND GRID CONDUCTOR. PROVIDE BONDING LUG ON TANK SHELL BOLT TO BOND TANK. CONTRACTOR SHALL COORDINATE BOND LUG INSTALLATION WITH TANK INSTALLER.
- 4 CONTRACTOR TO PROVIDE AND INSTALL NEW 4/O AWG BARE COPPER BONDING CONDUCTOR BETWEEN GROUND GRID CONDUCTOR AND TANK FOUNDATION REBAR. PROVIDE EXOTHERMIC WELD TO GROUND GRID CONDUCTOR. PROVIDE MECHANICAL CONNECTION TO FOUNDATION REBAR. CONTRACTOR SHALL COORDINATE BOND CONDUCTOR INSTALLATION TO REBAR WITH TANK
- 5 CONTRACTOR SHALL PROVIDE AND INSTALL NEW HANDHOLE WITH 3/4" X 20'-0" COPPER-CLAD GROUND ROD FOR ELECTRICAL AND STORAGE BUILDING ELECTRICAL SERVICE. PROVIDE EXOTHERMIC WELD(S). TYPICAL OF 3. ELECTRICAL SYSTEM GROUND RODS SHALL BE SPACED A MINIMUM OF 8'-0" APART. REFER ALSO TO DETAIL ON SHEET E-9.2. COORDINATE INSTALLATION LOCATION WITH NEW DUCTBANK TO BE INSTALLED FROM ELECTRICAL AND STORAGE BUILDING.
- 6 CONTRACTOR TO PROVIDE AND INSTALL NEW 4/O AWG BARE COPPER BONDING CONDUCTOR BETWEEN GROUND GRID CONDUCTOR AND ELECTRICAL AND STORAGE BUILDING ELECTRICAL SERVICE GROUND RING. PROVIDE EXOTHERMIC WELDS FOR ALL CONNECTIONS.
- BARE COPPER BONDING CONDUCTOR BETWEEN ELECTRICAL AND STORAGE BUILDING ELECTRICAL SERVICE GROUND RING AND ELECTRICAL AND STORAGE BUILDING GROUNDING BUS BAR. REFER TO SHEET E-1.3 FOR GROUNDING BUS BAR LOCATION.
- 8 FOR CONTINUATION REFER TO SHEET E-0.6.
- for continuation to stariwell grounding refer to sheet E-4.2.

- ALL GROUNDING AND BONDING CONDUCTOR ROUTING SHOWN DIAGRAMMATICALLY FOR CLARITY. COORDINATE ROUTING WITH FIELD CONDITIONS.
- 2. ALL GROUND ROD/HANDHOLE LOCATIONS SHOWN ARE INTENDED TO SHOW GENERAL LOCATION. COORDINATE EXACT LOCATION WITH NEW AND EXISTING PIPING, PROPOSED FOUNDATION LOCATIONS AND FIELD CONDITIONS.
- 3. REFER TO SHEET E-4.2 FOR AIR TERMINAL DOWN CONDUCTORS AND STAIR BONDING CONDUCTORS WHICH CONTINUE TO TANK PLATFORM. REFER TO KEY NOTES 9 AND 10 ON THIS SHEET.

777 S. Harbour Island Blvd, STE 250, TAMPA, FL 33602 813 .227 .9190 FAX 813 . 227 . 9195 Certificate of Authorization No. 00031028

PROPOSED EQUALIZATION TANK E-0.5

SHEET NUMBER



PHONE: 813-620-1460

WWW.KIMLEY-HORN.COM CA 00000696

DATE BY

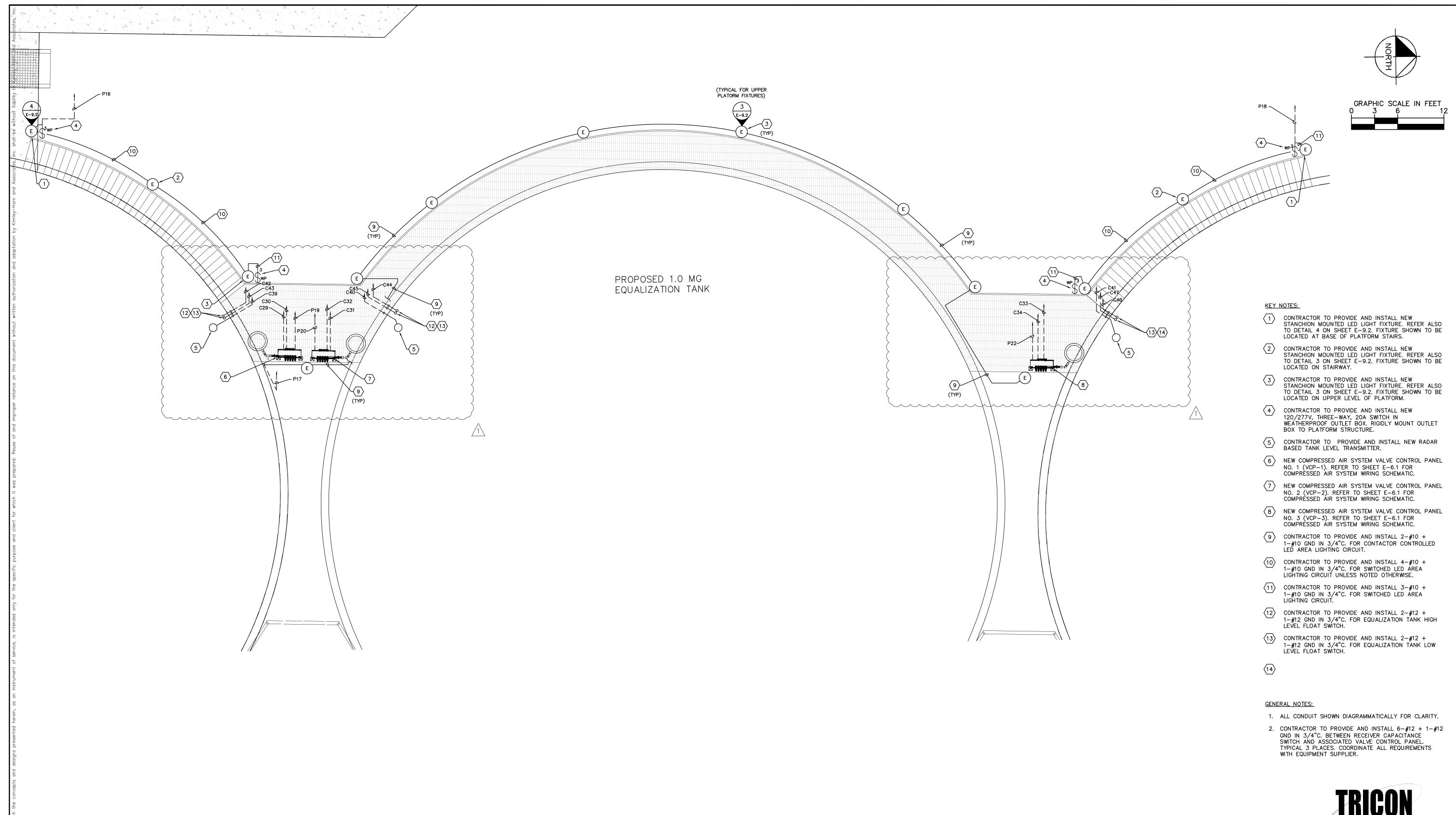
REVISIONS

DRAWN BY

CHECKED BY GHW | MANATEE COUNTY

FL DATE:







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KHA PRC	JECT	
148400	013	
DATE 8-8-16		
SCALE AS	SHOWN	
DESIGNED BY	TDT	
DRAWN BY	JLW	

KHA PROJECT 148400013	Manatee
DATE 8-8-16	County
SCALE AS SHOWN	NORTH WRF
DESIGNED BY TDT	EQUALIZATION TANK
DRAWN BY JLW	EQUALIZATION TAINK
CHECKED BY GHW	MANATEE COUNTY

TIMOTHY THOMAS, P.E.

LICENSED PROFESSIONAL

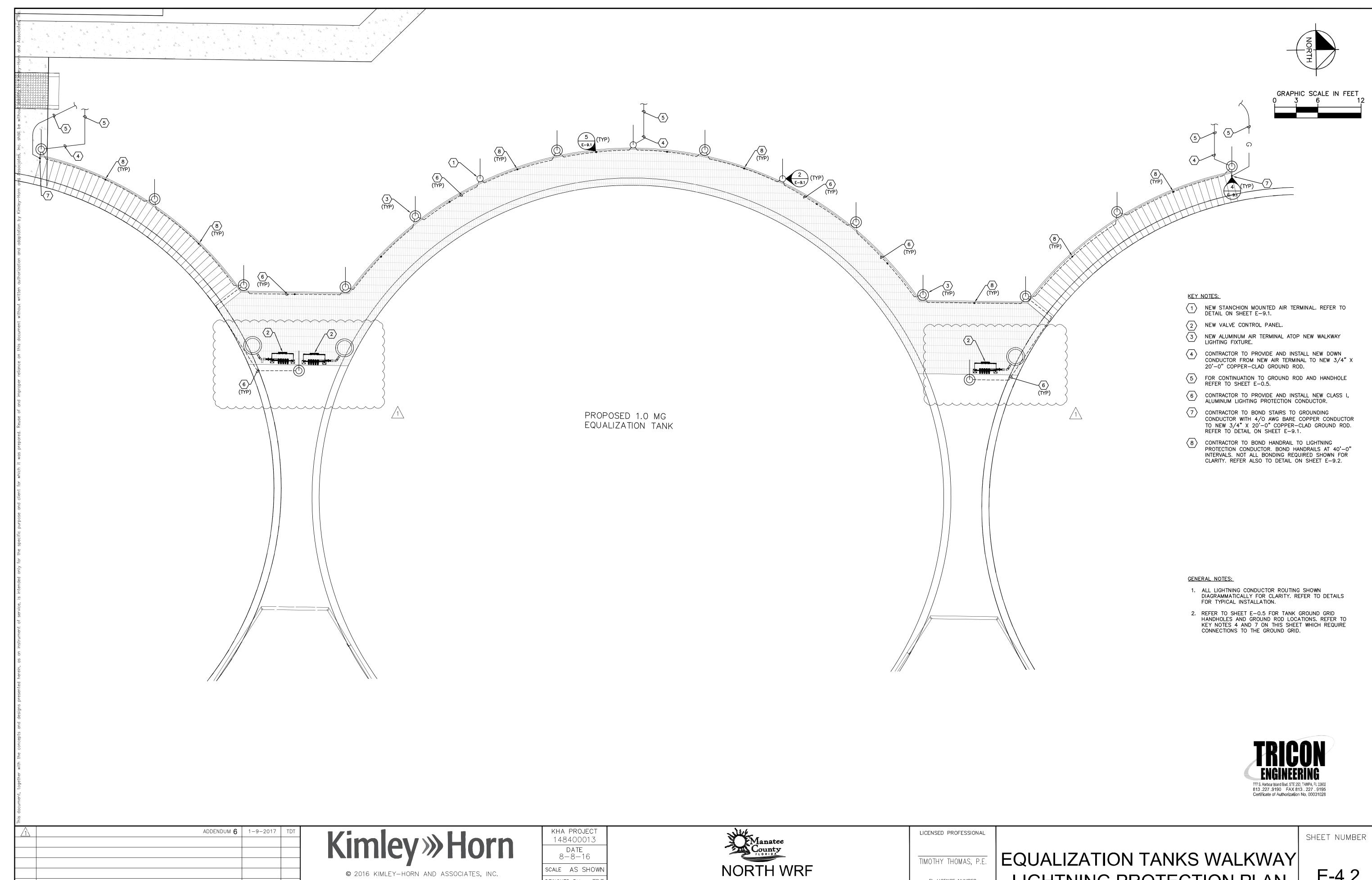
FL LICENSE NUMBER 47079

FL DATE:

EQUALIZATION TANKS WALKWAY ELECTRICAL PLAN

SHEET NUMBER

E-4.1



DATE BY

REVISIONS

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KHA PROJECT 148400013		
DATE 8-8-16		
SCALE	AS	SHOWN
DESIGNE	D BY	TDT
DRAWN		. \\/

EQUALIZATION TANK CHECKED BY GHW MANATEE COUNTY

FL LICENSE NUMBER 47079

FL DATE:

LIGHTNING PROTECTION PLAN

E-4.2