

VAMC FIRE TANK

SET NO. _____
OCTOBER, 2015

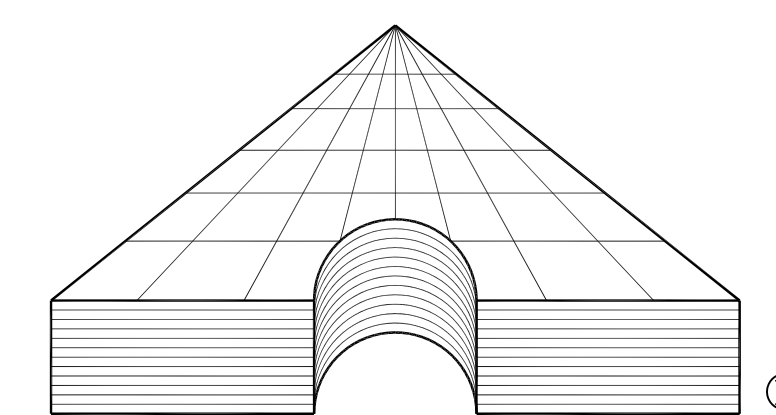


VETERANS ADMINISTRATION MEDICAL CENTER

ALEXANDRIA, LOUISIANA



ARCHITECTS **BEAZLEY** MOLIERE
architecture **planning** interior design
337 233 0614
FAX 233 7338
P.O. BOX 51877
LAFAYETTE, LOUISIANA 70505
ABM PROJECT # 201101.D1



ASSOCIATED DESIGN GROUP, INC.
A PROFESSIONAL ENGINEERING COMPANY

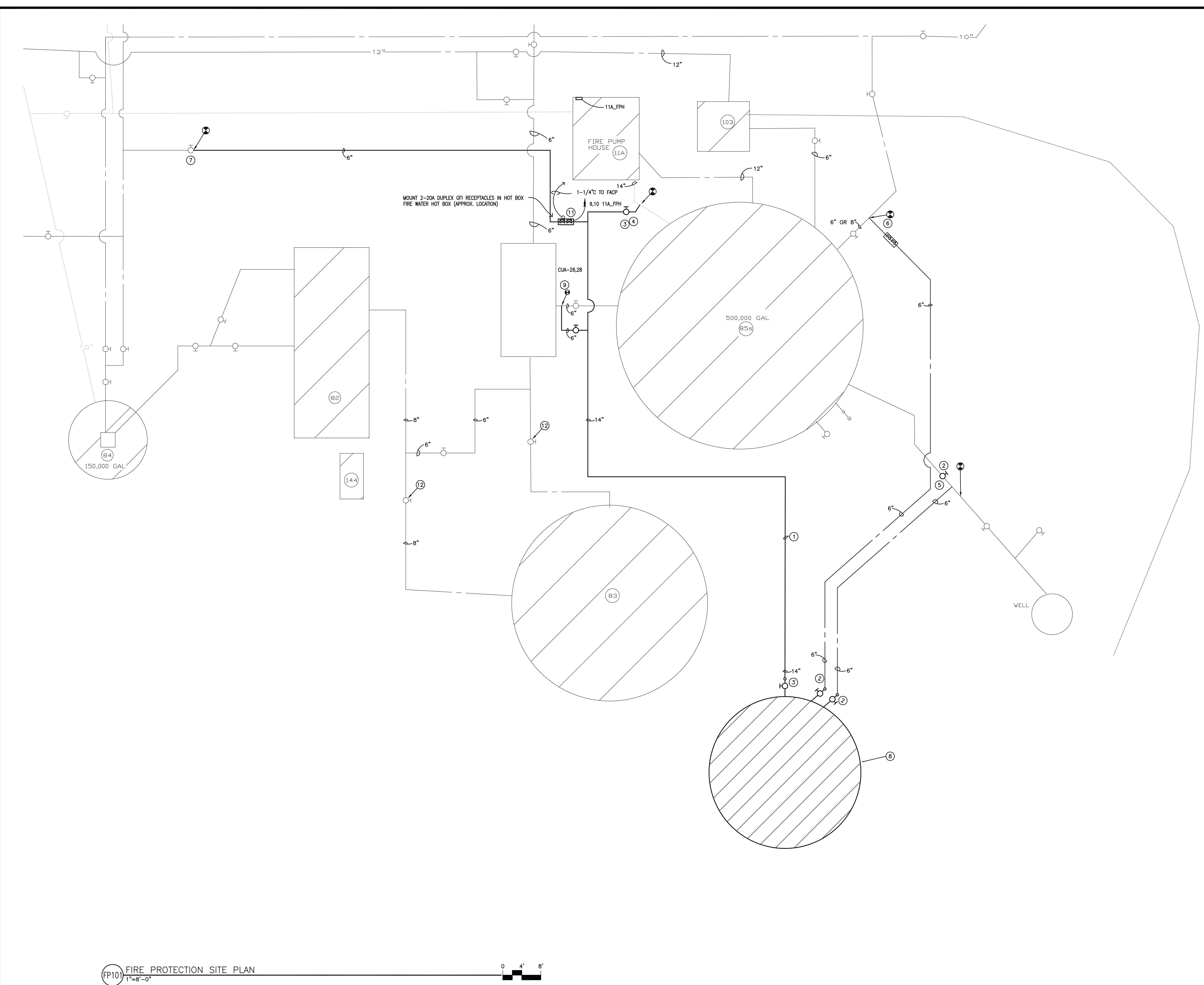
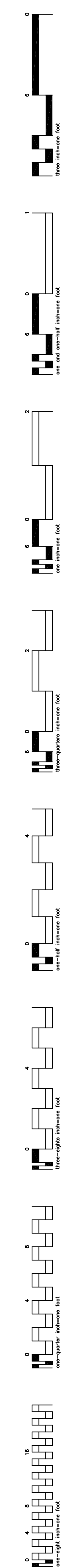
adginc@adginc.org
ADG Project Number: 14144

PROJECT DRAWING INDEX

PLAN	SHEET	TITLE
1	-	COVER SHEET
2	FP101	WORK SITE PLAN
3	FP201	DETAILS PLAN
4	S1.0	GENERAL NOTES, SITE PLAN, FOUNDATION PLAN AND DETAILS
5	S1.1	STANDARD CHAIN LINK FENCE DETAILS

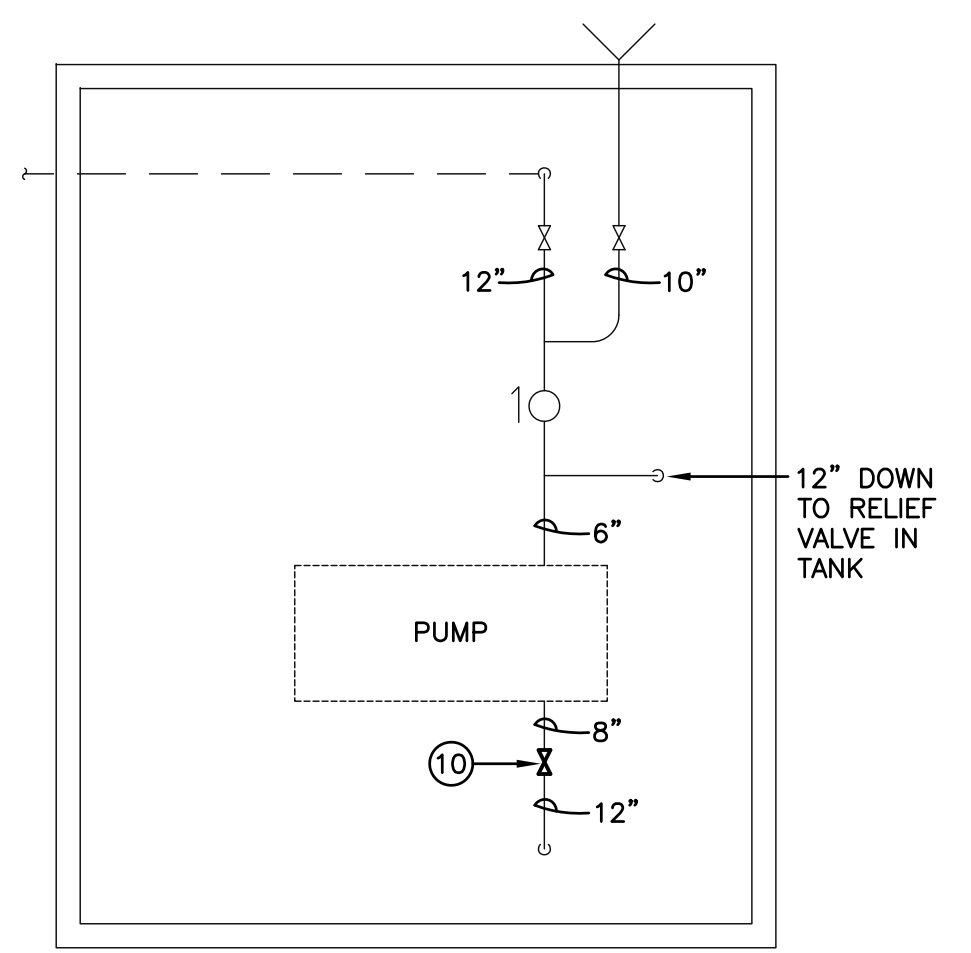


MEYER, MEYER, LACROIX & HIXSON
ENGINEERS & LAND SURVEYORS
ALEXANDRIA, LOUISIANA



- DEMOLITION KEYNOTES:**
- 1. CONTRACTOR SHALL REMOVE 6" LINE TO INSTALL NEW 14" LINE.
 - 2. REMOVE EXISTING VALVE TO BE REPLACED.
- KEYNOTES:**
- 1. ROUTE NEW 14" LINE FROM TANK TO FIRE PUMP LINE.
 - 2. INSTALL NEW VALVE WITH POST INDICATOR ON 6" WATER WELL FILL LINE.
 - 3. CONNECT TO EXISTING 14" FIRE PUMP WATER SUCTION LINE IN THIS VICINITY.
 - 4. INSTALL NEW 14" WITH POST INDICATOR VALVE.
 - 5. SIX (6) INCH TANK FILL LINE. CL900 DR18 PVC FROM WELL TO PIV. CONTINUE WITH LINED DUCTILE IRON PIPE FROM PIV TO RISER TO TANK INLET. CONTINUE WITH SCH.40 GALVANIZED STEEL PIPE FROM DUCTILE IRON PIPE TO TANK SUPPLY INLET. INSULATE AND HEAT TRACE ALL PIPE LOCATED ABOVE GROUND WHEN NOT LOCATED IN INSULATED HEATED ENCLOSURE. MINIMUM BURIAL DEPTH FOR PIPE THIRTY SIX (36) INCHES. PROVIDE POWER FROM PANEL IN BUILDING 82.
 - 6. SIX (6) INCH TANK FILL LINE. CL900 DR18 PVC FROM DISTRICT WATER TO PIV. INSTALL BACK FLOW PREVENTER IN LINE INCASED IN HEATED ENCLOSURE. CONTINUE WITH LINED DUCTILE IRON PIPE FROM PIV TO RISER TO TANK INLET. CONTINUE WITH SCH.40 GALVANIZED STEEL PIPE FROM DUCTILE IRON PIPE TO TANK SUPPLY INLET. INSULATE AND HEAT TRACE ALL PIPE LOCATED ABOVE GROUND WHEN NOT LOCATED IN INSULATED HEATED ENCLOSURE. MINIMUM BURIAL DEPTH FOR PIPE THIRTY SIX (36) INCHES. PROVIDE POWER FROM PANEL IN BUILDING 82.
 - 7. CONNECT TO EXITING VALVE IN THIS VICINITY. VERIFY EXACT LOCATION OF TIE IN POINT PRIOR TO BIDDING.
 - 8. INSTALL NEW 165,000 GALLON BOLTED STEEL FIRE WATER TANK (32'-0" DIAMETER X 28'-0" TALL).
 - 9. CONNECT TANK TO EXISTING CHLORINATION FEED SYSTEM.
 - 10. REPLACE 12" VALVE IN THIS VICINITY. VALVE TO BE SUPPLIED BY VAMC.
 - 11. SIX (6) INCH TANK FILL LINE. CL900 DR18 PVC FROM POTABLE WATER TANK TO PIV. INSTALL BACK FLOW PREVENTER IN LINE INCASED IN HEATED ENCLOSURE. CONTINUE WITH LINED DUCTILE IRON PIPE FROM PIV TO CONNECTION POINT WITH 14" PIPE. CONTINUE WITH SCH.40 GALVANIZED STEEL PIPE FROM DUCTILE IRON PIPE TO TANK SUPPLY INLET. INSULATE AND HEAT TRACE ALL PIPE LOCATED ABOVE GROUND WHEN NOT LOCATED IN INSULATED HEATED ENCLOSURE. MINIMUM BURIAL DEPTH FOR PIPE THIRTY SIX (36) INCHES. PROVIDE POWER FROM PANEL IN BUILDING 82.
 - 12. VALVE SHALL BE CLOSED.

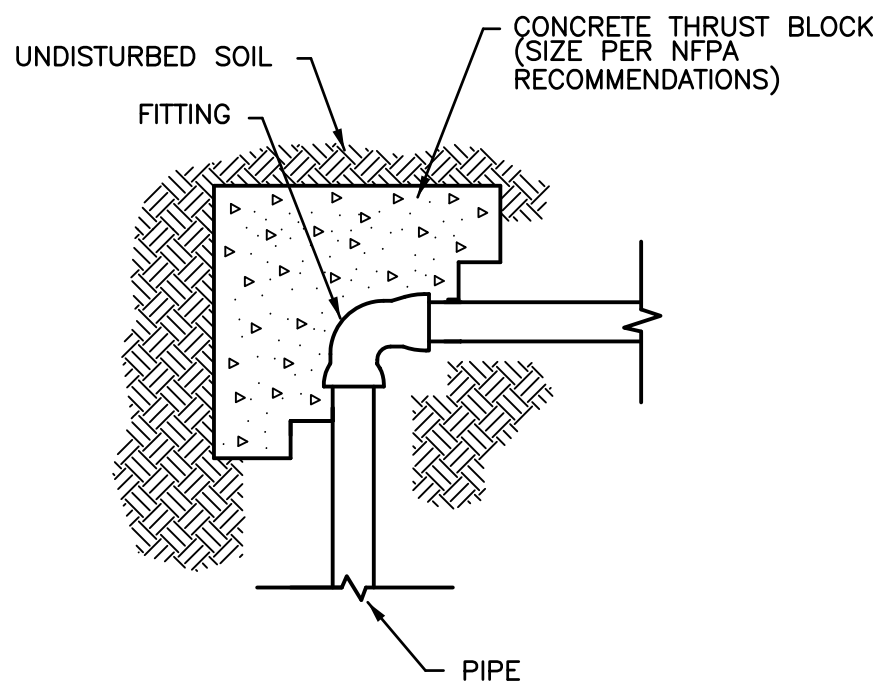
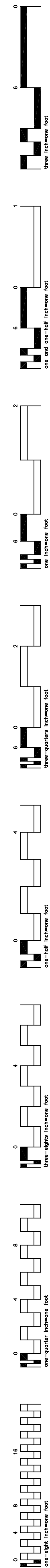
- GENERAL NOTES:**
- 1. CONTRACTOR SHALL INSPECT SITE PRIOR TO BIDDING.
 - 2. CONTRACTOR SHALL PREPARE EXISTING SITE FOR NEW TANK. INCLUDED IN THIS IS THE REMOVAL OF ANY TREES THAT MAYBE BE IN WAY OF TANK INSTALLATION. REFER TO CIVIL PLANS.
 - 3. CONTRACTOR SHALL DETERMINE EXACT TIE IN LOCATIONS WITH EXISTING CONDITIONS ON SITE PRIOR TO BIDDING.
 - 4. TANK SHALL BE INSTALLED AT AN ELEVATION ABOVE LEVEL OF SUCTION FOR FIRE FIRE PUMP.
 - 5. CONTRACTOR SHALL UTILIZE EXISTING FENCE AND ADD NEW FENCE TO PROPERLY SECURE ALL FIRE TANKS AND ASSOCIATED BUILDINGS. REFER TO CIVIL PLANS.
 - 6. ALL TIE IN POINTS AND POINTS OF EXISTING EQUIPMENT SHALL BE FIELD VERIFIED PRIOR TO BIDDING.



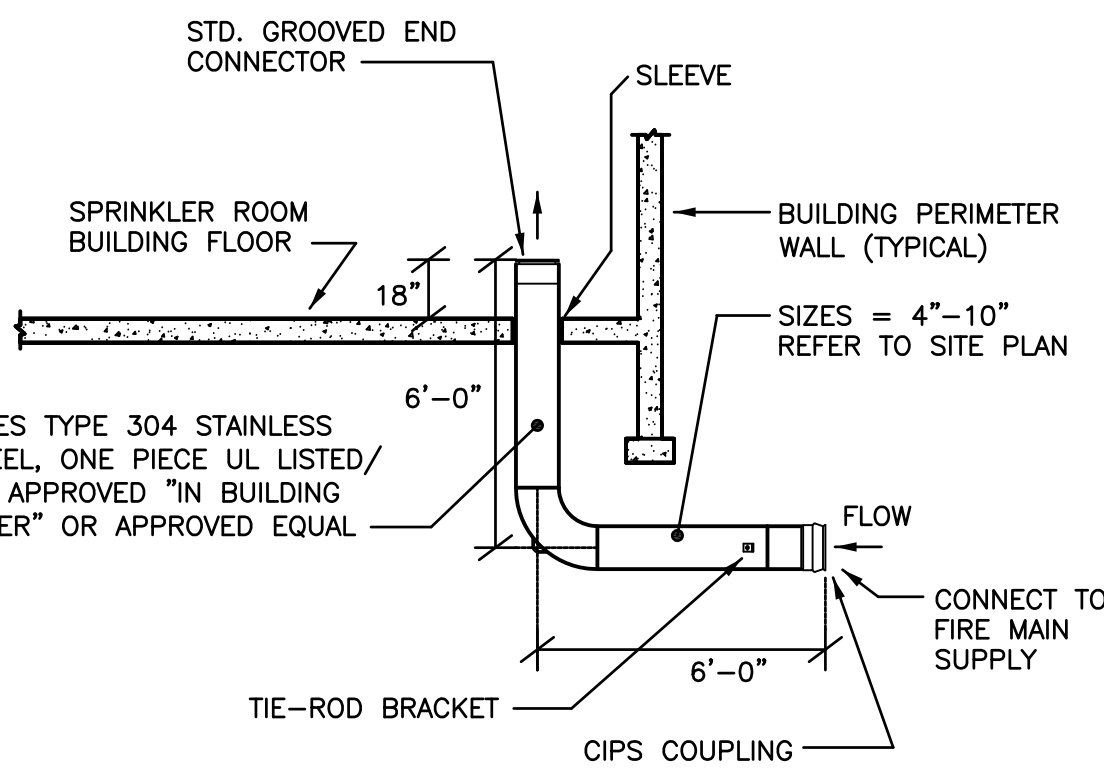
FP101 FIRE PROTECTION SITE PLAN 1"=8'-0"

FP102 FIRE PUMP HOUSE PLAN 1"=4'-0"

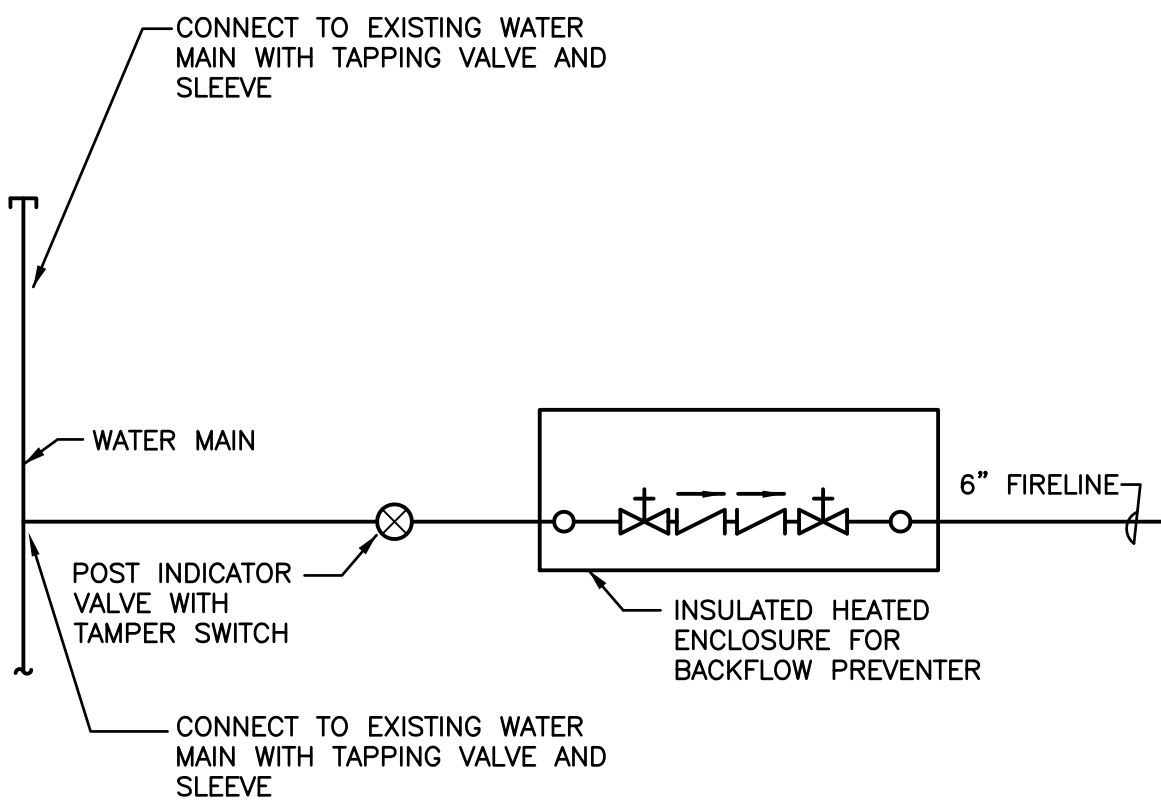
Revisions			ARCHITECTS BEAZLEY MOLIÈRE architecture planning interior design 337 233 0614 FAX 233 7338 P.O. BOX 51877 LAFAYETTE, LOUISIANA 70505 ABM PROJECT # 201101.D1		ASSOCIATED DESIGN GROUP, INC. Lafayette, Louisiana (337) 234-5710 PROJECT No. 14144		STAMP 		Drawing Title FIRE PROTECTION SITE PLAN		Project Title VA FIRE TANK BLADDER		Date 3-7-16	
SYMBOL	NAME	Date							Approved:		Building Number SITE		Checked LWB	
									Approved:		Drawn DJH		DRAWING NO. FP101	
											Location ALEXANDRIA, LOUISIANA		Dwg. 4 of 5	



1 | THRUST BLOCK FOR PIPING ELBOW
NO SCALE



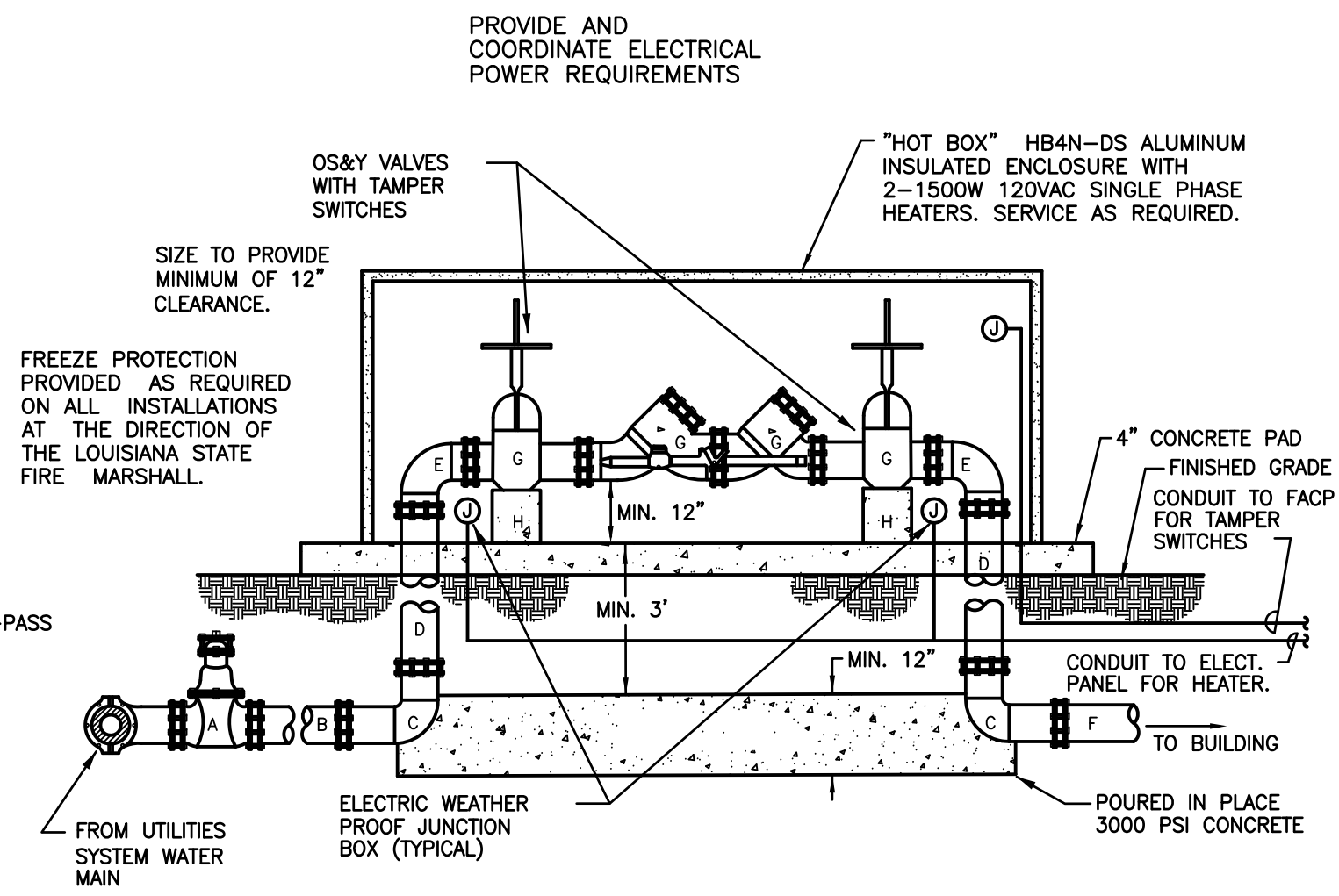
4 | FIRE LINE AND FDC LINE ENTRY DETAIL
NO SCALE



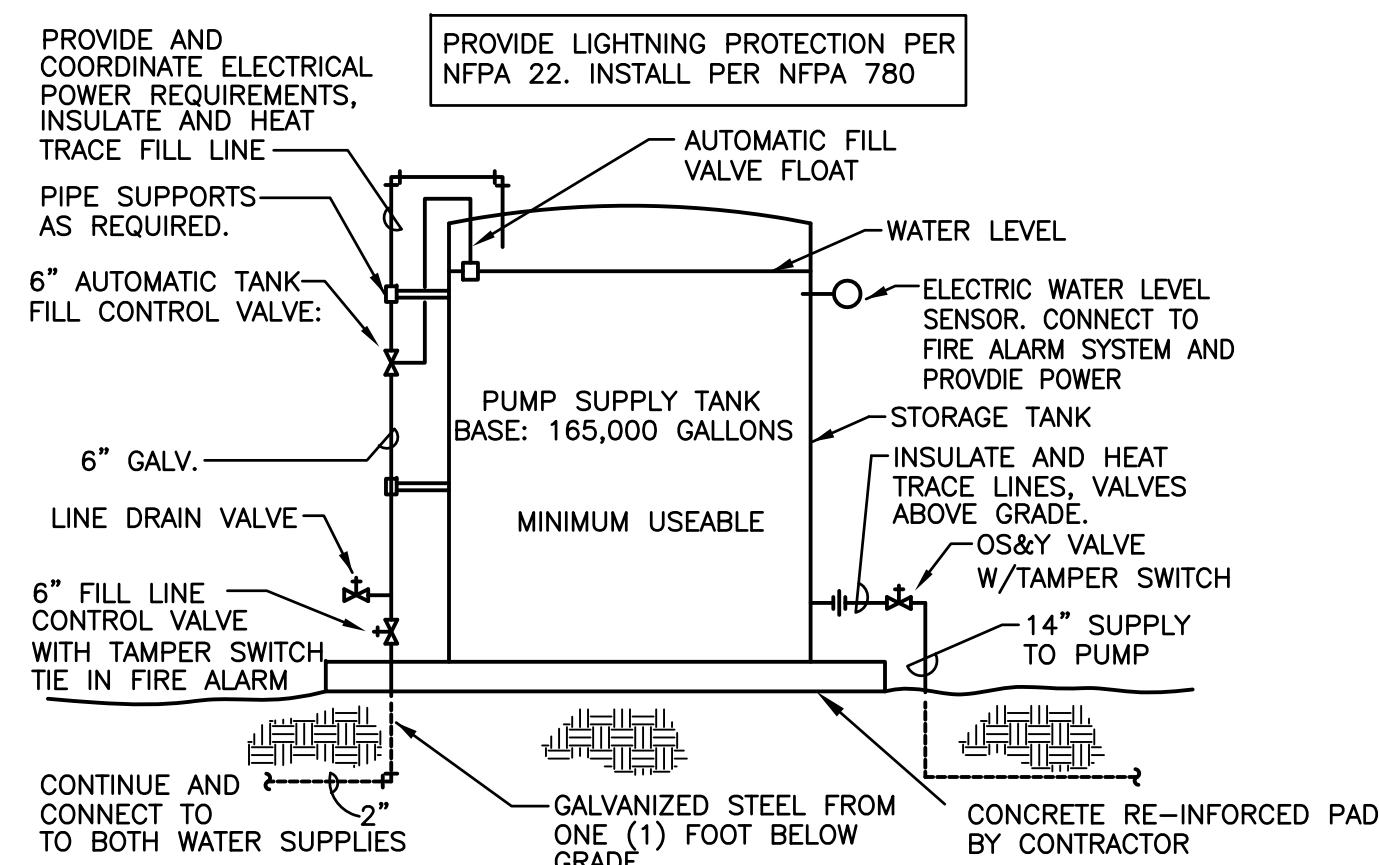
6 | FIRELINE WATER TAP
NO SCALE

1 | FIRE PROTECTION DETAILS
NO SCALE

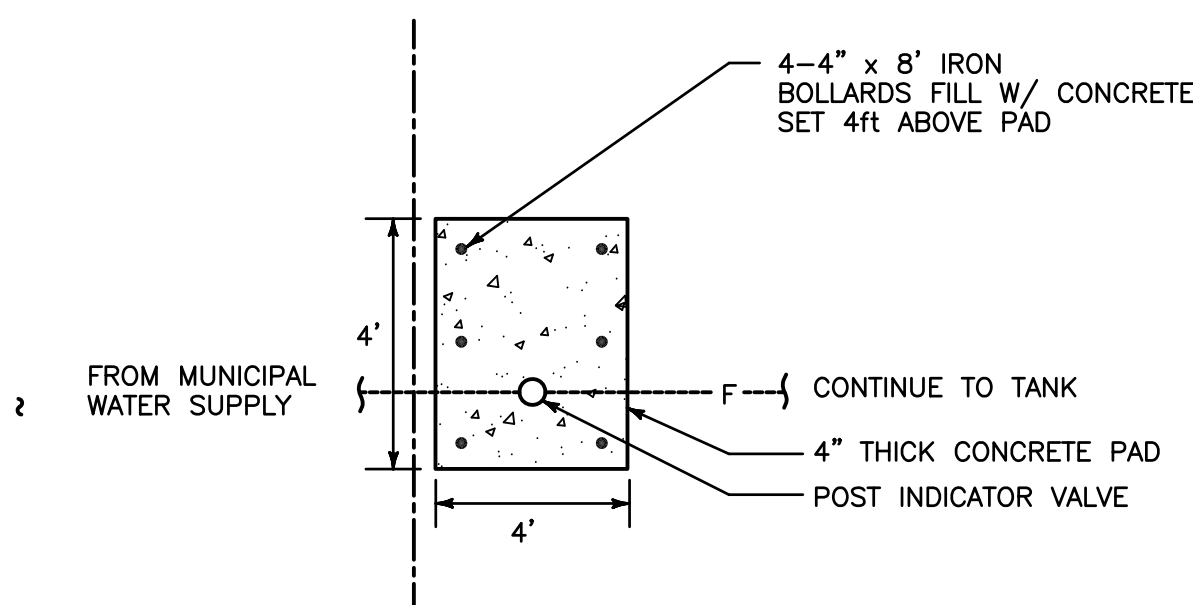
- LEGEND *
- A- MJ RESILIENT GATE VALVE AND BOX (INSTALLATION VARIES); TAPPING VALVE/SLEEVE-M&H 974/MUELLER H615; GATE VALVE/ANCHOR TIE-M&H (AWWA C-509) MJ DUCTILE IRON (350 PSI) AWWA C-110/C-153; BOX/TYLER S-1/4.
 - B- AWWA CLASS 150, C-900, SDR 18, PVC PIPE.
 - C- 90° MJ DUCTILE IRON (350 PSI) FITTING (AWWA C-110/C-153) WITH RETAINER GLANDS (FORD UFR 1500/UFR 1400).
 - D- DUCTILE IRON FLANGED BY PLAIN END PIPE (AWWA C-151).
 - E- 90° FLANGED DUCTILE IRON (350 PSI) FITTING (AWWA C-110/C-153).
 - F- AWWA CLASS 200, C-900, PVC PIPE.
 - G- AMES COLT 300 SERIES OR WILKINS 350 DCDA ASSEMBLY WITH BY-PASS METER, OS&Y VALVES, AND BY-PASS DOUBLE CHECK VALVE.
 - H- CONCRETE SUPPORT.
 - I- ALL FITTINGS/JOINTS/VALVES/APERTURANCES MUST BE RESTRAINED. TWO VALVES WILL BE REQUIRED WHERE THE EXISTING MAIN IS EXTENDED (IE: PUBLIC ROADWAY CROSSING).
- * OR PRIOR APPROVED BY AUTHORITIES OF JURISDICTION.



2 | FIRE LINE DOUBLE CHECK DETECTOR IN HOT BOX DETAIL
NO SCALE



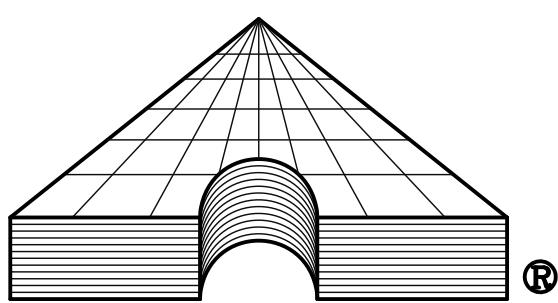
5 | PUMP SUPPLY TANK DETAIL
NO SCALE



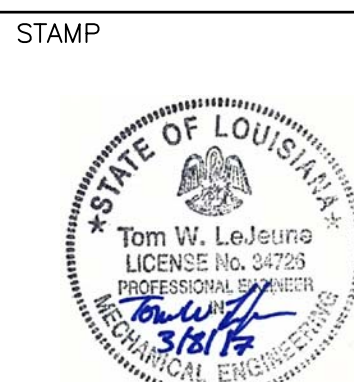
7 | CONCRETE PAD AT POST INDICATOR VALVE & FIRE DEPT. CONNECTION
NO SCALE

Revisions		
SYMBOL	NAME	Date

ABM
ARCHITECTS **BEAZLEY** MOLIÈRE
architecture **planning** interior design
337 233 0614
FAX 233 7338
P.O. BOX 51877
LAFAYETTE, LOUISIANA 70505
ABM PROJECT # 201101.D1



ASSOCIATED DESIGN GROUP, INC.
Lafayette, Louisiana (337) 234-5710
PROJECT No. 14144



Drawing Title WATER TANK LAYOUT	
Approved:	
Approved:	

Project Title VA FIRE TANK BLADDER	
Building Number BLDG 83	Checked LWB
Location ALEXANDRIA, LOUISIANA	Drawn DJH

Date 3-7-16
Project No. 502-14-105
DRAWING NO. FP201
Dwg. 3 of 5



GENERAL NOTES:

1. GENERAL:

THE CONTRACTOR SHALL CORRELATE ALL DIMENSIONS BETWEEN THE STRUCTURAL AND RELATED MECHANICAL AND ELECTRICAL PLANS BEFORE CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR INCONSISTENCIES BEFORE PROCEEDING WITH THE WORK. SIZE AND LOCATION OF MECHANICAL AND/OR ELECTRICAL EQUIPMENT IS PROVIDED FOR GUIDANCE ONLY. CONTRACTOR SHALL COORDINATE ACTUAL DIMENSIONS WITH MANUFACTURERS THROUGH SHOP DRAWING SUBMITTALS.

THE CONTRACTOR SHALL VERIFY LOCATIONS AND SIZES OF ALL OPENINGS IN SLAB AND BEAMS AND ALL INSERTS AND EMBEDDED ITEMS WITH MECHANICAL AND ELECTRICAL DRAWINGS BEFORE PLACING CONCRETE.

CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY CONSTRUCTION SAFETY GUIDELINES, PROCEDURES, AND EQUIPMENT.

CONTRACTOR SHALL SUBMIT COMPLETE INTEGRATED SHOP DRAWINGS AND OBTAIN APPROVAL PRIOR TO FABRICATIONS.

REFER TO PROJECT SPECIFICATIONS FOR DETAILED DESCRIPTION OF MATERIALS AND METHODS TO BE USED IN THIS PROJECT.

2. FOUNDATION:

FOUNDATION DESIGN IS BASED ON 3000 P.S.F. SOIL BEARING PRESSURE TOTAL LOAD.

FOUNDATION DESIGN CRITERIA DERIVED FROM SUBSURFACE EXPLORATION BY GEOTECHNICAL TESTING LABORATORY DATED SEPTEMBER 2015.
A COPY IS AVAILABLE AT ARCHITECT'S OFFICE.

CONTRACTOR SHALL PROVIDE FOR DEWATERING AT EXCAVATION FROM EITHER SURFACE WATER OR SEEPAGE AND PROVIDE ADEQUATE EXCAVATION SHORING TO PREVENT CAVE-INS.

ALL FOUNDATION EXCAVATIONS SHALL BE INSPECTED BY THE ENGINEER PRIOR TO PLACEMENT OF STEEL OR CONCRETE.

DURING THE FOUNDATION EXCAVATION PROCEDURE, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY EVIDENCE OF ANY INCONSISTENCIES IN THE SOIL PROFILES REPORTED IN THE SOILS REPORT PRIOR TO PLACING CONCRETE.

3. CONCRETE:

ALL CONCRETE SHALL BE MADE FROM TYPE 1 CEMENT AND SHALL HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 3000 P.S.I. AT 28 DAY TEST. MIX DESIGN SHALL BE AS FOLLOWS:
SEE SPECIFICATIONS FOR ADMIXTURE REQUIREMENTS.

MAXIMUM AGGREGATE SHALL BE AS FOLLOWS:
SLABS & BEAMS ON GRADE ----- 1"
ELEVATED SLABS & BEAMS ----- 3/4"
FOOTINGS ----- 1 1/2"

3. CONCRETE: (CONTD.)

NO WATER SHALL BE ADDED AT THE JOB SITE WITHOUT SPECIFIC APPROVAL OF THE ARCHITECT FOR EACH INSTANCE.

CHAMFER ALL EXPOSED EDGES 3/4" UNLESS OTHERWISE NOTED.

UNLESS SPECIFICALLY SHOWN ON THE DRAWINGS, CONSTRUCTION JOINTS SHALL BE LOCATED AT MID-SPAN OF SLABS AND/OR BEAMS. REINFORCING SHALL BE CONTINUOUS THROUGH JOINTS.

ALL DEEP GRADE BEAMS SHALL BE ADEQUATELY BRACED UNTIL ALL INTERIOR COMPACTION HAS BEEN COMPLETED AND SLABS ARE IN PLACE.

ALL CONCRETE SHALL BE CONSOLIDATED BY INTERNAL VIBRATION IN ACCORDANCE WITH A.C.I. STANDARDS 309R-05 PART 2.
"RECOMMENDED PRACTICES FOR CONSOLIDATION OF CONCRETE".

SPECIAL VIBRATION PROVISIONS SHALL BE MADE FOR CONCRETE CONTAINING SUPER PLASTICIZER ADMIXTURES DURING PLACEMENT.

PLUMBING AND/OR MECHANICAL EQUIPMENT PENETRATIONS THROUGH WALLS, BEAMS AND/OR SLABS SHALL BE CONSTRUCTED IN ACCORDANCE WITH DETAILS PROVIDED IN THE MECHANICAL DRAWINGS AND/OR SPECIFICATIONS.

PLUMBING OR OTHER PIPING PENETRATING THROUGH REINFORCING SHALL BE WRAPPED AND ISOLATED FROM CONTACT WITH REINFORCING.

4. REINFORCING STEEL:

ALL REINFORCING STEEL SHALL BE NEW BILLET, 60 KSI GRADE DEFORMED BARS, WELDED WIRE MESH SHALL BE ASTM A185.

CLEAR MINIMUM COVERAGE OF CONCRETE REINFORCING BARS SHALL BE AS FOLLOWS: CONCRETE PLACED AGAINST EARTH ... 3", FORMED CONCRETE AGAINST EARTH ... 2", BEAMS TO TIES/STIRRUPS ... 1 1/2", TOP AND BOTTOM OF ELEVATED SLABS ... 3/4" (U.N.O.).

THE MINIMUM SPLICE OF ALL CONTINUOUS BARS SHALL BE 40 BAR DIA. (2'-0" MIN.) U.N.O.

ALL REINFORCING BARS, W.W.F., BOLTS, DOWELS, INSERTS, ETC., SHALL BE RIGIDLY SECURED IN POSITION PRIOR TO PLACING OF CONCRETE.

DESIGN CRITERIA

DESIGN CODE ----- AWWA D100
AWWA D103
STRUCTURAL DESIGN CODE ---- (ANSI/ASCE 7-10)

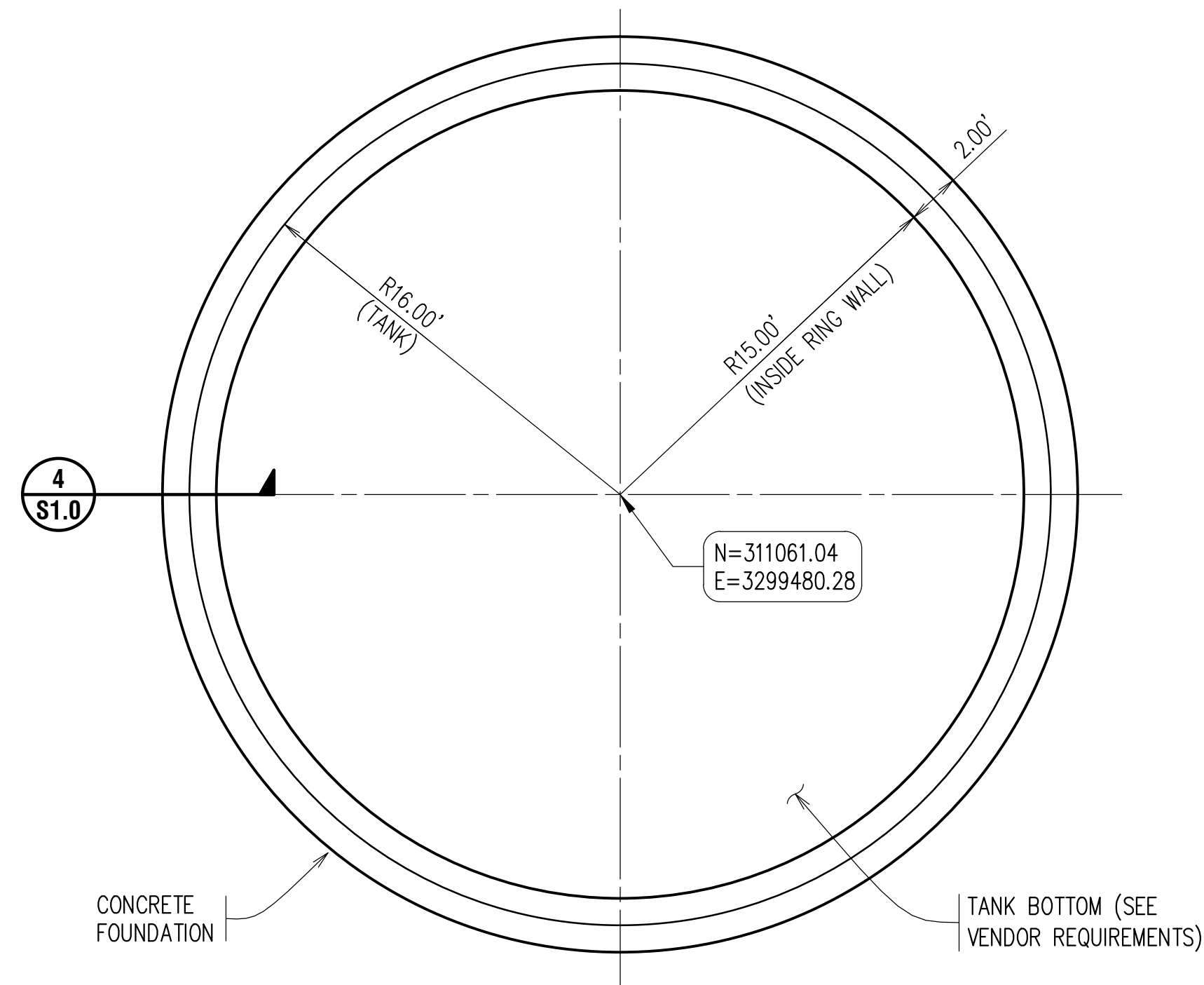
CONCRETE DESIGN CODES ----- * ACI 301-05 AND ALL REFERENCED
ACI & ASTM SPECIFICATIONS THEREIN
* ACI 318R-11
* ACI 302.1 R-04

FLATNESS / LEVELNESS TOLERANCES

FLATNESS ----- DIFFERENTIAL NOT EXCEEDING 1/8 INCH IN ANY 30 FOOT CIRCUMFERENCE

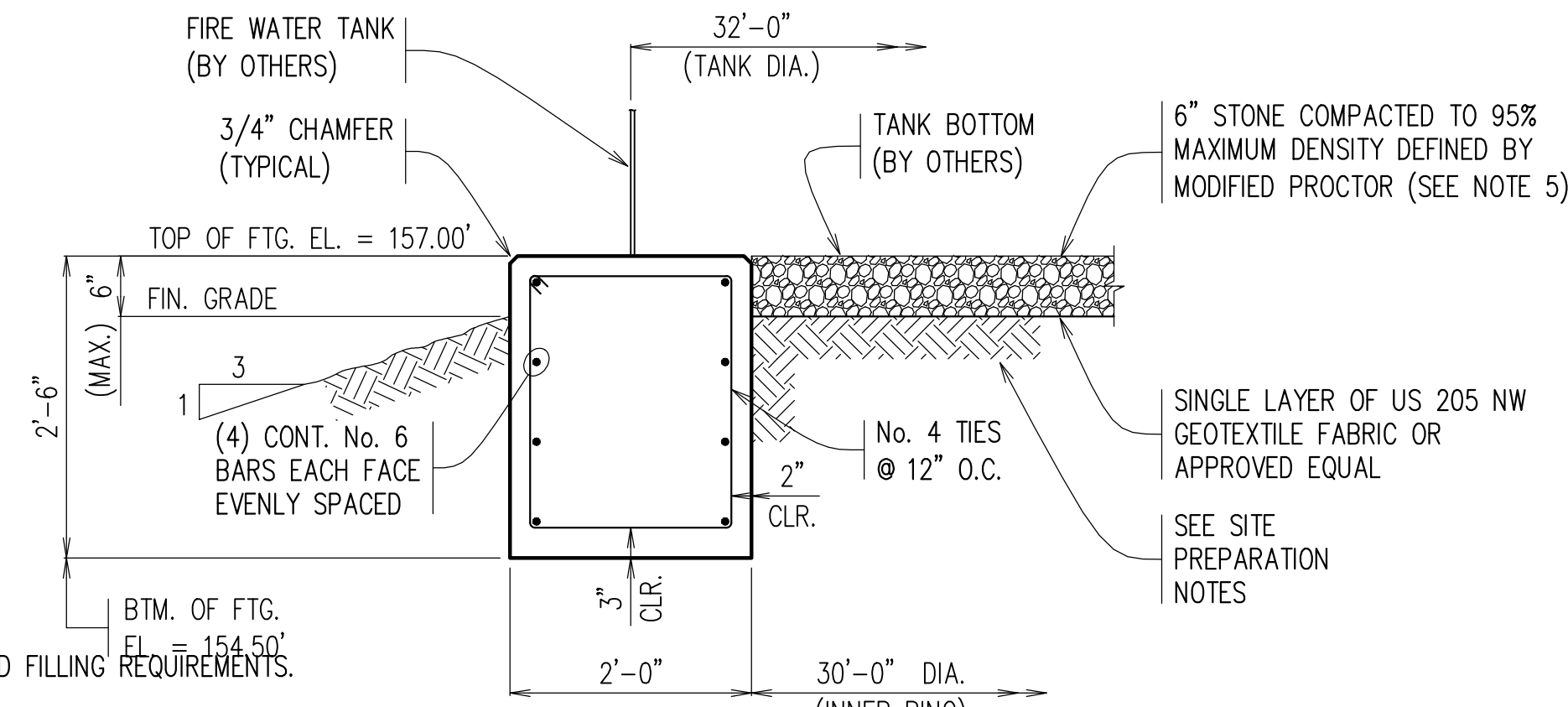
LEVELNESS ----- NOT VARY MORE THAN 1/4 INCH FROM AN ESTABLISHED PLANE

MANUFACTURER'S CRITERIA ---- CONTRACTOR SHALL SUBMIT THE MANUFACTURER'S FLATNESS AND LEVELNESS CRITERIA FOR REVIEW. IF MANUFACTURER'S FLATNESS AND LEVELNESS CRITERIA ARE MORE STRINGENT THAN THE ABOVE CRITERIA, THEN IT SHALL CONTROL.



3 FOUNDATION PLAN

SCALE: 1" = 5'-0"
RE: 2/S1.0



4 SECTION

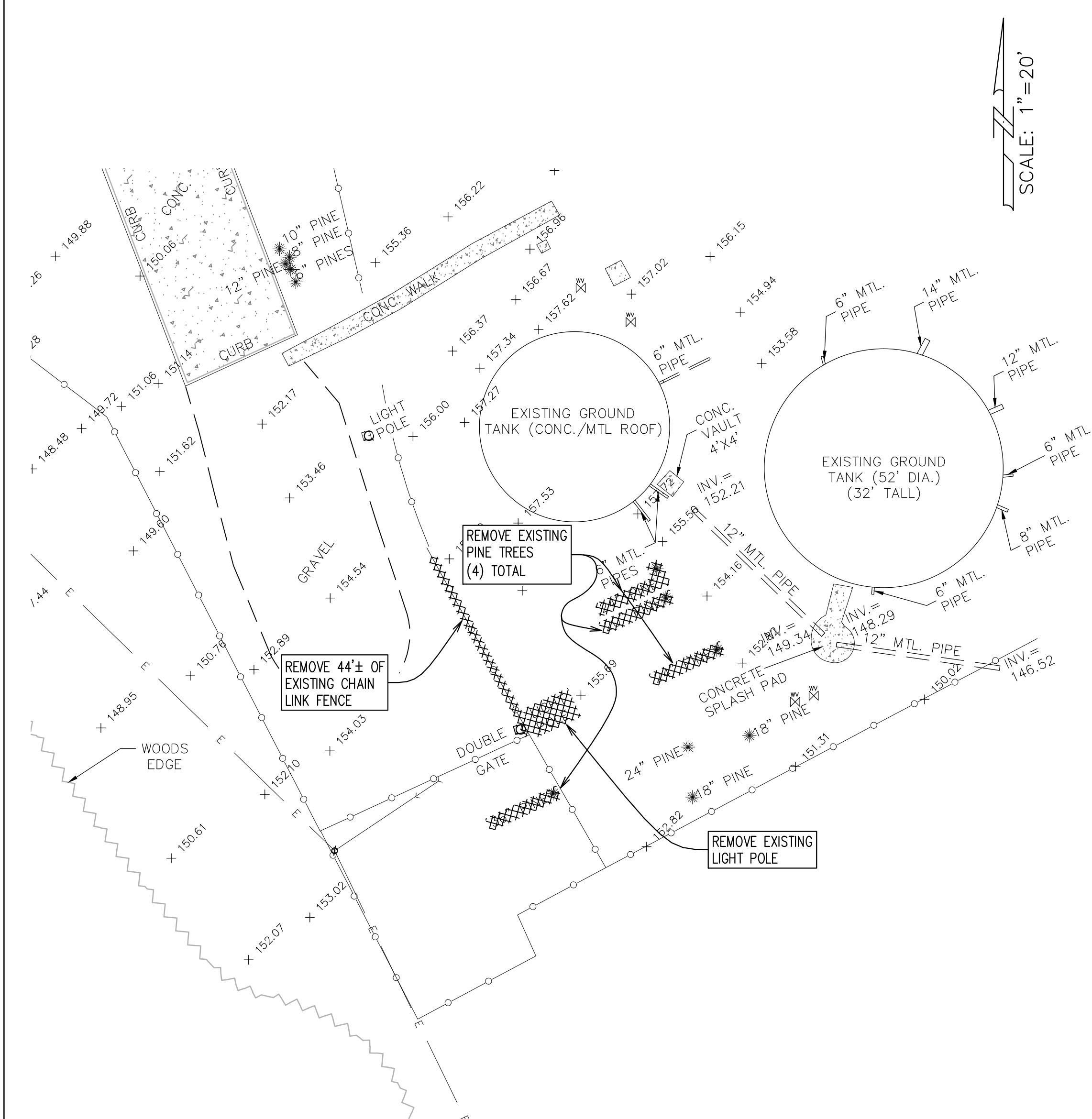
SCALE: 3/4" = 1'-0"
RE: 3/S1.0

TANK FILLING/TESTING NOTES:

- 1) COMPLY WITH ALL TANK VENDOR TESTING AND FILLING REQUIREMENTS.
- 2) GEOTECHNICAL REPORT RECOMMENDS HYDRO TESTING THE TANK USING ONE-THIRD (1/3) TOTAL CAPACITY INCREMENTS AND MAINTAINING EACH INCREMENT AS LONG AS PRACTICAL (TWO (2) DAY MINIMUM) BEFORE MAKING FINAL PIPING CONNECTIONS.

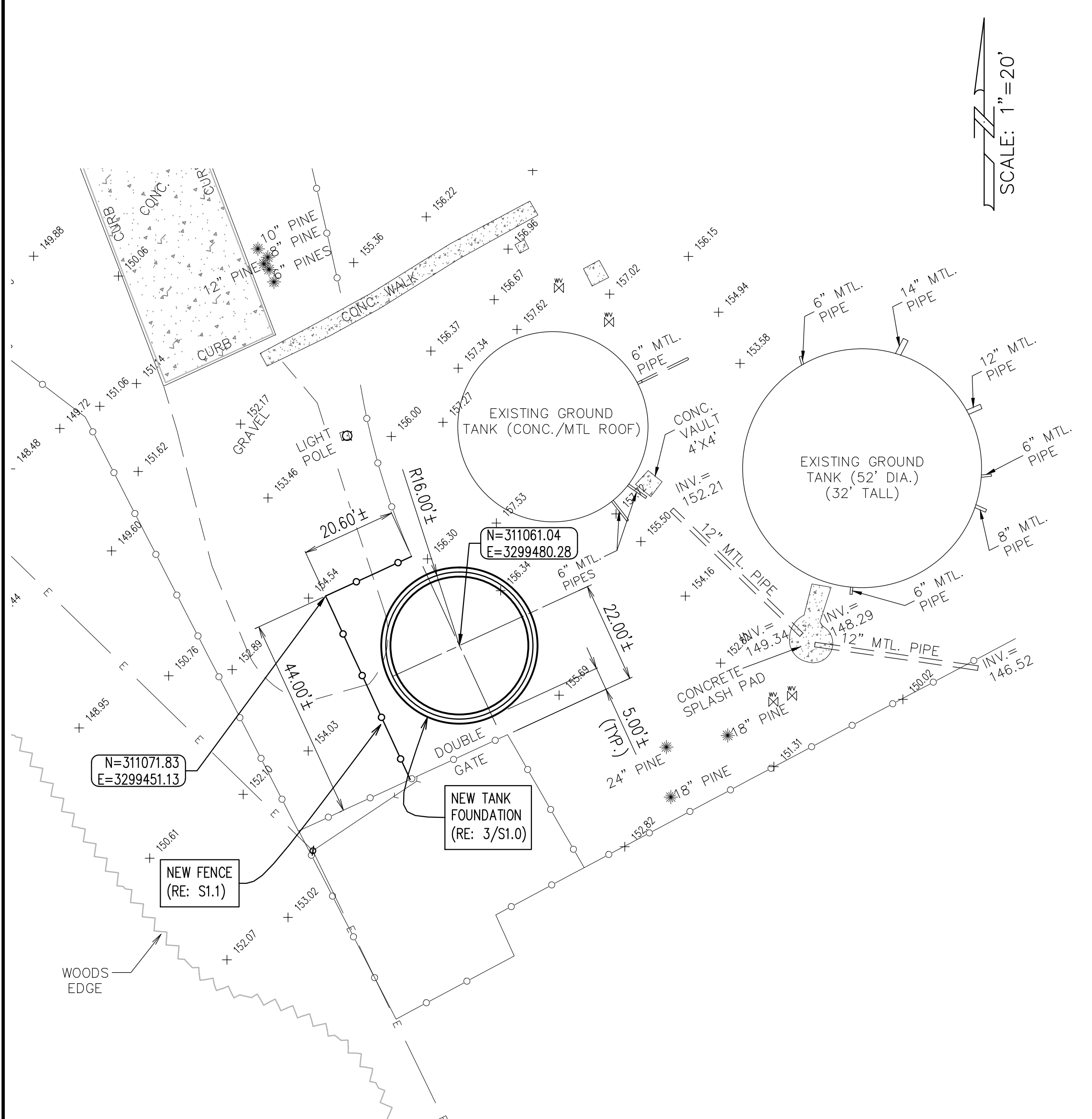
SITE PREPARATION NOTES:

- 1) **CLEARING AND GRUBBING** - CONTRACTOR SHALL REMOVE ALL TOPSOIL, VEGETATION, ROOTS, AND SOFT SOILS WITHIN 5'-0" OF THE TANK.
- 2) **UTILITY RELOCATION** - CONTRACTOR SHALL RELOCATE ANY UTILITIES THAT ARE WITHIN THE FOOTPRINT OF THE TANK.
- 3) **SUBGRADE** - CONTRACTOR SHALL PROVIDE A UNIFORM LAYER OF DENSITY APPROVED SELECT FILL (MINIMUM 12" THICK). THE LIMITS OF THE SELECT FILL SHALL EXTEND 3'-0" (MINIMUM) BEYOND THE TANK FOUNDATION. THE SUBGRADE SHALL BE PROOF ROLLED AND ANY WEAK AREAS REMOVED AND REPLACED. FILL SHOULD BE PLACED IN MAXIMUM LIFTS OF EIGHT (8) INCHES OF LOOSE MATERIALS AND COMPACTED WITHIN THE RANGE OF ONE (1) PERCENTAGE POINT BELOW TO THREE (3) PERCENTAGE POINTS ABOVE THE OPTIMUM MOISTURE CONTENT VALUE AND A MINIMUM OF 98% OF THE STANDARD PROCTOR MAXIMUM DENSITY.
- 4) **SELECT FILL MATERIAL** - SELECT FILL MATERIAL SHOULD BE FREE OF ORGANIC OR OTHER DELETERIOUS MATERIALS, HOMOGENEOUS MIXTURE, HAVE A MAXIMUM PARTICLE SIZE OF THREE (3) INCHES, A LIQUID LIMIT LESS THAN 40 AND A PLASTICITY INDEX BETWEEN 8 AND 20, AND CONSIST OF SILTY-CLAYEY SANDS (SM-SC), LOW PLASTICITY SANDY CLAYS (CL), OR CLAYEY SANDS (SC) AS DEFINED BY THE UNIFIED SOIL CLASSIFICATION SYSTEM. THE MATERIAL SHOULD HAVE A MINIMUM OF 30% RETAINED ON THE No. 200 SIEVE.
- 5) **GRANULAR BASE MATERIAL** - GRANULAR BASE MATERIAL SHALL MEET THE REQUIREMENTS OF LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES 2006 EDITION (BLUE BOOK) FOR ITEM 1003.03(b) CRUSHED STONE OR 1003.03(c) FOR RECYLED PORTLAND CEMENT CONCRETE.
- 6) **SITE GRADING** - CONTRACTOR SHALL SLOPE MATERIAL AWAY FROM TANK FOUNDATION AT A 1 ON 3 MAX. SLOPE UNTIL IT HITS NATURAL GRADE.
- 7) **SODDING / SEEDING** - CONTRACTOR SHALL SOD DISTURBED AREAS WITHIN 5'-0" OF TANK FOUNDATION. CONTRACTOR HAS OPTION TO SEED AND FERTILIZE OR SOD DISTURBED AREAS OUTSIDE 5'-0" OF TANK FOUNDATION.



1 SITE PLAN - DEMOLITION

SCALE: 1" = 20'-0"



2 SITE PLAN - REMEDIAL WORK & SITE GRADING

SCALE: 1" = 20'-0"

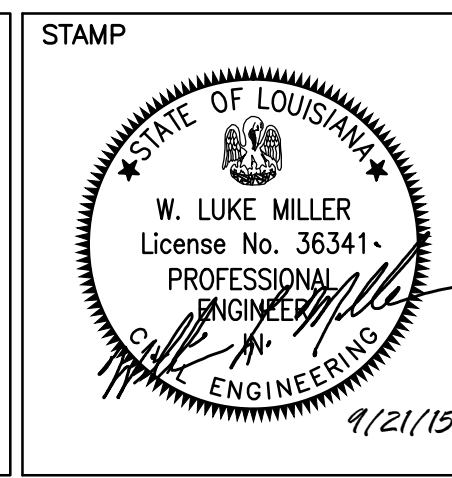
Revisions		
SYMBOL	NAME	Date

ARCHITECTS BEAZLEY MOLIÈRE
architecture planning interior design
337 233 0614
FAX 233 7338
P.O. BOX 51877
LAFAYETTE, LOUISIANA 70505
ABM PROJECT # 201101.D1

mml&h

PROJ. NO. **6955** DATE: **1/21/15**
DESIGN: **WLM** DRAWN: **AWB**

MEYER, MEYER, LaCROIX & HIXSON
ENGINEERS & LAND SURVEYORS
ALEXANDRIA, LOUISIANA



Drawing Title	
GENERAL NOTES, SITE PLAN, FOUNDATION PLAN & DETAILS	
Approved:	
Approved:	

Project Title	
VA FIRE TANK BLADDER	
Building Number	Checked
SITE	WLM
Drawn	AWB
Location	
ALEXANDRIA, LOUISIANA	

Date
9-17-15
Project No.
502-14-105
DRAWING NO.
S1.0
Dwg. 4 of 5



