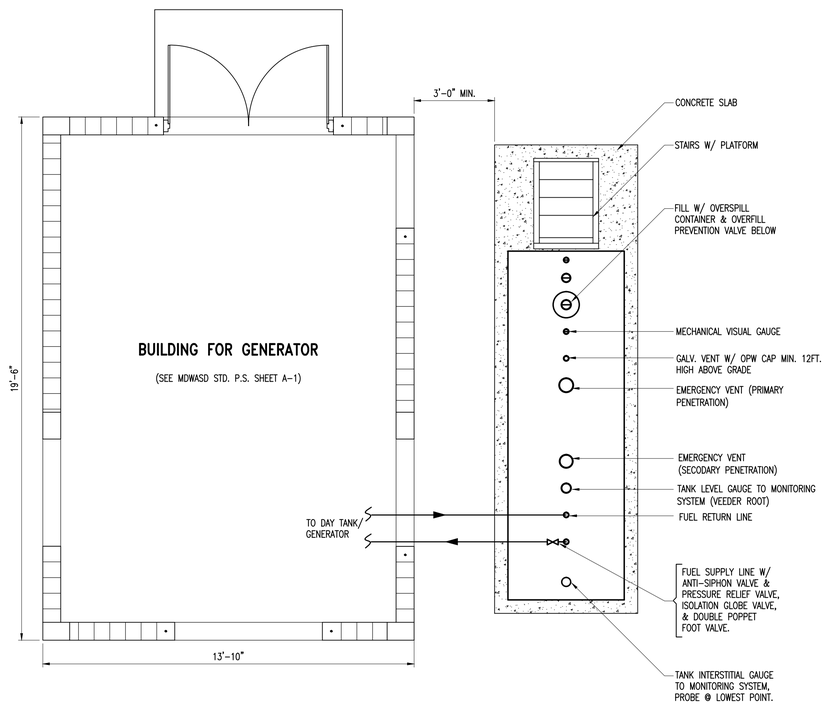
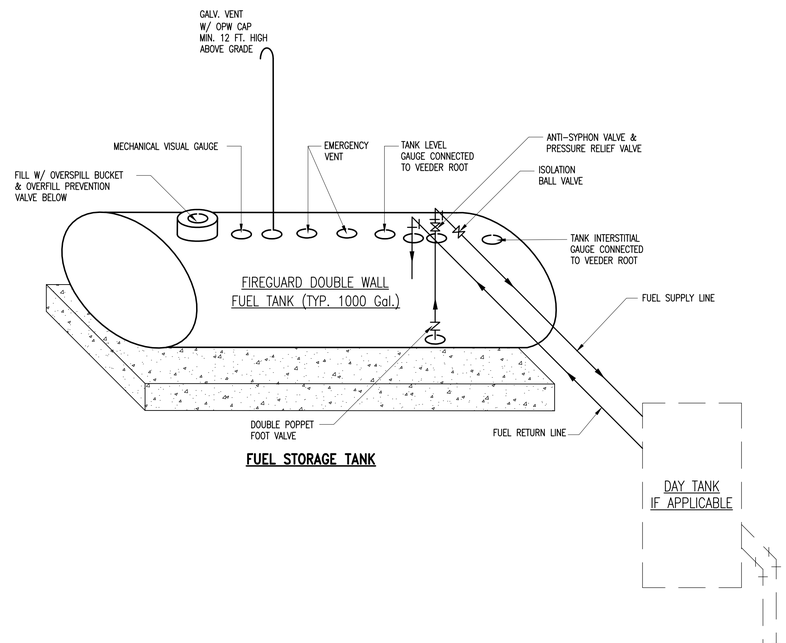


TYPICAL ABOVEGROUND TANK LOCATION

N.T.S.



FUEL STORAGE TANK

NOTES:

1). ALL PIPES, FITTINGS AND VALVES FOR FUEL SERVICE SHALL BE BLACK STEEL (SCHEDULE 40).

2). INSTALLATION OF ALL PIPES AND FITTINGS IS ABOVE GROUND. SEE DETAIL THIS SHEET.

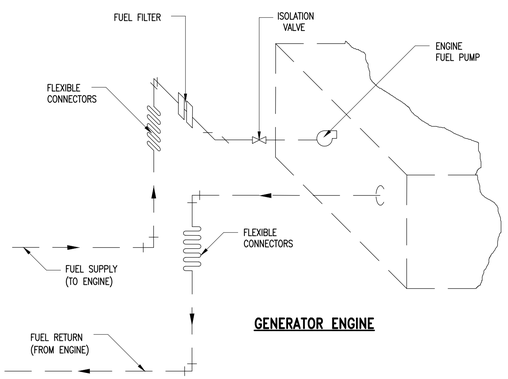
3). INSTALL ISOLATION VALVES IN BOTH THE SUPPLY AND RETURN LINES

4). DAY TANK SHALL BE FURNISHED WITH SUPPLY PUMP AND SOLENOID CONTROL VALVE, AND WITH RETURN PUMP AND CHECK VALVE. DAY TANK VENT SHALL BE 5' MIN. AWAY OF ANY AIR IN TAKE (DETAILED DRAWING SHALL BE INCLUDED IN THIS SHEET). IF DAY TANK PROVIDED.

5). ALL EQUIPMENT SHALL BE FDEP APPROVED.

6). OVERFILL PROTECTION IS REQUIRED.

7). BUMP POSTS FOR TANK MAY BE REQUIRED.



GENERATOR ENGINE

FUEL SYSTEM SCHEMATIC

N.T.S.

NOTES:

1.) FUEL STORAGE TANK SHALL BE AN ABOVE-GROUND DOUBLE-WALLED (UL-2085, UL-142) AND FDEP APPROVED, PREFERABLY STEEL CYLINDRICAL TANK (REFER TO FIREGUARD TANKS OR APPROVED EQUAL). EACH TANK SHALL BEAR THE U.L. 2085 LABEL.

2.) FUEL LINES SHOULD BE OF BLACK IRON, TO BE MOUNTED ON THE WALL AND SECURED WITH UNISTRUT BRACKETS OR RUN THE LINES DIRECTLY THROUGH THE GENERATOR BUILDING WALL AND CONNECT THEM DIRECTLY TO THE GENERATOR. THE FUEL LINES SHALL BE PROPERLY PREPARED AND PRIMED WITH KEELER AND LONG TRI-POLAR FERRITE PRIMER OR APPROVED EQUAL AND TOP COATED WITH RUST-OLEUM INDUSTRIAL ACRYLIC ENAMEL 5225 (ROYAL BLUE OR OTHER COLOR SELECTED BY MDWASD) OR APPROVED EQUAL.

3.) ISOLATION VALVES ON TOP OF THE FUEL LINES SHALL BE BALL VALVES AND NOT GATE VALVES. VALVES SHALL BE STAINLESS STEEL BODIES FULL BORE BALL VALVE, NIBCO T-585-S6-R-66 LL OR APPROVED EQUAL.

4.) INSTALL AN FDEP APPROVED 7 GALLON POWDER COATED, U.L. LISTED SPILL CONTAINMENT BUCKET W/WATER TIGHT LID, AND INCLUDE NORMAL CLOSED VALVE TO RELEASE SPILLED PRODUCT INTO THE PRIMARY STEEL TANK.

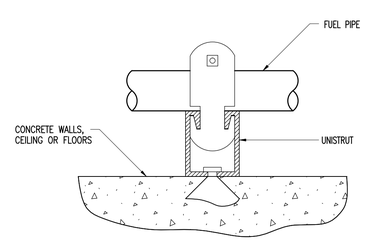
5.) INSTALL AN ANTI-SIPHON VALVE ON THE SUPPLY LINE ON THE HIGHEST LEVEL OF PIPING.

6.) INSTALL A VEEDER ROOT TLS-300 OR APPROVED EQUAL LEAK DETECTION CONSOLE WITH PRINTER AND ELECTRONIC SENSING PROBES TO GAUGE THE FUEL AND WATER LEVELS AS WELL AS THE TANK INTERSTICE. THE CONSOLE SHALL BE EQUIPPED WITH A DIGITAL TO ANALOG CONVERTER KIT (4-20 MILLIAMP) TO INTERFACE WITH OUR SCADA SYSTEM. THE SYSTEM SHALL ALSO BE EQUIPPED WITH AN OVERFILL ALARM AND ACKNOWLEDGEMENT DEVICE.

7.) PROVIDE AND INSTALL ONE SET OF STAIRS WITH PLATFORM TO FACILITATE FUELING THE TANK. THE STAIRS SHALL COMPLY WITH OSHA STANDARD 1910.24 FIXED INDUSTRIAL STAIRS AND OTHER APPLICABLE STANDARDS. STANDARD RAILINGS SHALL BE PROVIDED ON THE OPEN SIDES OF ALL EXPOSED STAIRWAYS AND STAIR PLATFORMS AND SHALL COMPLY WITH OSHA STANDARD 1910.23 GUARDING FLOOR AND WALL OPENINGS AND HOLES. THE TOP PLATFORM SHALL BE AT AN ELEVATION OF 24"-30" BELOW THE TOP OF THE TANK (EXCLUDING ANY TANK APPURTENANCES). STAIR ASSEMBLY SHALL BE OF GALVANIZED, CARBON STEEL CONSTRUCTION. THE STAIRS SHALL BE FREE STANDING AND SHALL NOT CONTACT NOR BE SUPPORTED BY THE FUEL TANK AND SHALL HAVE A 1"-3" CLEAR GAP BETWEEN THE STAIRS AND THE TANK.

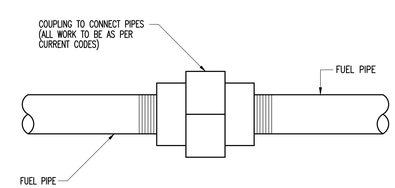
8.) THE TANK LOCATION AND FOUNDATION SHALL COMPLY WITH ALL THE APPLICABLE LOCAL CODES, GROUNDING REQUIREMENTS AND ORDINANCES.

9.) THE TOP OF THIS SLAB SHALL BE PLACED AT/OR ABOVE 100 YEAR FLOOD PLAIN, OR 4" ABOVE THE HIGHEST POINT OF THE CROWN OF THE ROAD (WITHIN THE PROPERTY LINES), WHICHEVER IS GREATER, AND SHALL BE SECURELY ATTACHED TO ITS FOUNDATION IN ORDER TO RESIST WIND LOAD (MIAMI AREA, 146 MPH 3-SECOND GUST WIND SPEEDS), FLOTATION, RUPTURE OR COLLAPSE CAUSED BY WATER PRESSURE OR FLOATING DEBRIS.



PIPE SUPPORT DETAIL

N.T.S.



PIPE CONNECTION DETAIL

N.T.S.

MIAMI-DADE COUNTY
Delivering Excellence Every Day

WATER AND SEWER DEPARTMENT
ENGINEERING DIVISION
3071 SW 38TH AVENUE
MIAMI, FLORIDA 33146-2221
305-665 7471
miamidade.gov

PUMP STATION No. 0000
FACILITY OFFICIAL ADDRESS, FLORIDA 33100-0000
TYPICAL SUBMERSIBLE SEWAGE PUMP STATION
(WASD DESIGN STANDARD UPDATE 2012)

FUEL TANK

DRAWING HISTORY

RELEASED FOR	DATE	BY
REVIEW 30%		
REVIEW 70%		
REVIEW 100%		
PERMIT		

REVISIONS

No.	DESCRIPTION	DATE	BY

APPROVALS

CHIEF ENGINEER:

SECTION HEAD:

PROJECT MGR.:

DESIGNED: X.X.X. | CHECKED: X.X.X.

DRAWN: X.X.X. | FINAL CHECK: X.X.X.

XXXXXXX XXXXX
XXXXXXXXXXX Engineer
State of Florida – License No. 00000
Date:_____

ER No. : S000000 | PCTS No. : 00000

FILE NAME: XXXXXM02.DWG

DATE: APR. 06, 2012 | SCALE: AS NOTED

SHEET M-2

DWG. No. S-XXXXX-A