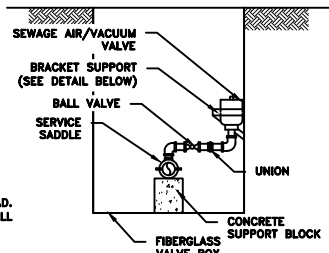


CRANE NOTES:

- EXCAVATE HOLE AS NEAR TO COLUMN DIMENSIONS AS POSSIBLE TO CONTACT IN-SITU SOIL ON ALL SIDES.
- PRIOR TO DESIGN, THE CONTRACTOR SHALL CONFIRM WITH THE AW PROJECT MANAGER WHETHER A GANTRY OR PEDESTAL CRANE IS REQUIRED.

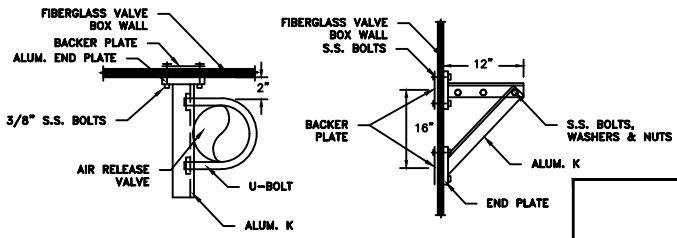
PEDESTAL DETAIL FOR CRANE



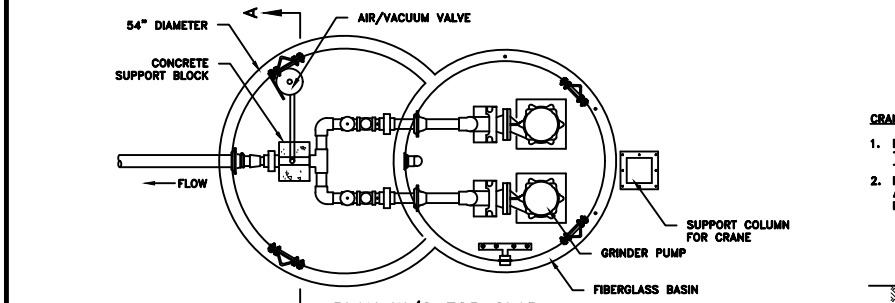
NOTE: AIR/VACUUM VALVE PIPING AND BRACKET ASSEMBLY IS NOT REQUIRED IF AIR/VACUUM VALVE IS NOT REQUIRED.

SECTION A-A

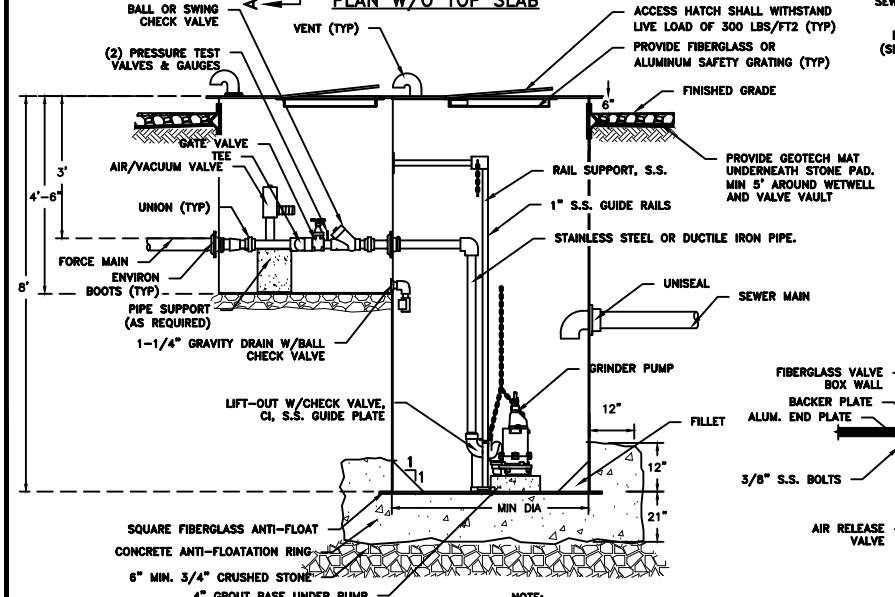
AIR RELEASE VALVE DETAIL



SUPPORT BRACKET DETAILS



PLAN W/O TOP SLAB



ELEVATION

NOTE: THREADED OR FLANGED FITTINGS MAY BE PROVIDED IN THE VALVE VAULT AS DIRECTED BY AW PROJECT MANAGER.

- GENERAL NOTES:**
- CONTRACTOR SHALL ADVISE ENGINEER IF UNSTABLE SOIL CONDITIONS ARE FOUND.
 - CONTRACTOR IS RESPONSIBLE FOR MEANS, METHODS AND SEQUENCING OF ALL WORK.
 - CONTRACTOR IS RESPONSIBLE FOR SAFETY OF ALL PERSONS ON SITE. PROVIDE NECESSARY SHORING, BRACING AND DEWATERING OF EXCAVATIONS. PROVIDE TEMPORARY PROTECTION OF EXCAVATIONS.
 - INSTALLATION OF EQUIPMENT IN PUMP STATION AND VALVE PIT SHALL BE DONE IN ACCORDANCE WITH CONFINED SPACE ENTRY REGULATIONS.
 - MOUNTING AND SUPPORT OF ALL EQUIPMENT TO BE DONE PER MANUFACTURER'S REQUIREMENTS. DRAWING SHOW GENERAL ARRANGEMENTS ONLY.
 - TWO SETS OF SHOP DRAWINGS OF ALL COMPONENTS ARE REQUIRED. SUBMIT TO ENGINEER FOR APPROVAL BEFORE ORDERING.
 - TWO SETS OF OPERATION AND MAINTENANCE MANUALS FOR ALL EQUIPMENT REQUIRED.
 - THIS DRAWING DOES NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. ALL CONSTRUCTION MUST COMPLY WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970, AS EXPANDED AND AMENDED FROM TIME TO TIME, AND ALL RULES AND REGULATIONS THERETO APPURTENANT.
 - A DUPLEX SUBMERSIBLE CENTRIFUGAL GRINDER PUMP SYSTEM SHALL BE USED AS MANUFACTURED BY MYERS OR AN APPROVED EQUAL. MYERS PUMP SPECIFICATIONS AND DETAILS HAVE BEEN SHOWN.
 - ALL PIPE, VENTS, CLEANOUTS, ETC SHALL PREVENT INFILTRATION AND INFLOW FROM ENTERING THE SANITARY SEWER SYSTEM. IF REQUIRED AS A RESULT OF THE PRESSURE TEST, MODIFICATIONS TO THE EXISTING SYSTEM WILL BE MADE PRIOR TO DISCHARGE TO SANITARY SYSTEM.
 - PLASTIC PIPE (PVC OR HDPE) NOT PERMITTED WITHIN WET WELL OR VALVE VAULT.
 - THREADED OR FLANGED FITTINGS MAY BE PROVIDED IN THE VALVE VAULT AS DIRECTED BY AW PROJECT MANAGER.
 - PUMPS MUST BE LOCATED FOR EASE OF SERVICE.
 - PUMP RATE CAPACITY MUST BE VERIFIED BY FIELD TEST.

FIBERGLASS BASIN DESIGN CRITERIA:

- EMPTY INTERIOR, FULL DEPTH BACKFILL.
 - NO BACKFILL, INTERIOR FULL OF WATER.
 - BASIN WILL NOT FLOAT WHEN INTERIOR IS EMPTY AND SATURATED SOIL FULL DEPTH.
- MANUFACTURER TO PROVIDE CALCULATIONS TO CONFIRM BASIN MEETS THE DESIGN CRITERIA ABOVE.

DESIGN LIFT STATION LEVELS	
TOP OF LID:	-
BOTTOM OF STATION FLOOR:	-
FLOAT LOW ALARM:	-
TRANSDUCER LOW ALARM:	-
LEAD PUMP ON:	-
LEAD PUMP OFF:	-
LAG PUMP OFF:	-
LAG PUMP ON:	-
TRANSDUCER HI ALARM:	-
HIGH FLOAT HI ALARM:	-

ANTI-BUOYANCY CALCULATIONS	
1. PUMP STATION VOLUME:	-
ASSUME WATER TABLE AT GROUND SURFACE	-
ASSUME NO SOIL FRICTION	-
WEIGHT OF WATER = 62.4 LB/CU FT	-
WEIGHT OF CONCRETE = 150 LB/CU FT	-
ASSUME WEIGHT OF PUMP STATION IS NEGLIGIBLE	-
2. CONCRETE WEIGHT REQUIRED = BUOYANT FORCE	-
3. CONCRETE VOLUME REQUIRED =	-

SEWAGE PUMP SPECIFICATIONS	
MANUFACTURER	-
TYPE	SUBMERSIBLE GRINDER
MODEL NO.	-
NUMBER REQUIRED	2
HORSEPOWER	-
DESIGN FLOW (GPM)	-
DESIGN TDH (FT)	-
VOLTAGE	-
PHASE	-
HERTZ	60
MOTOR SPEED (RPM)	-
IMPELLER DIA. (IN)	-
LEVEL CONTROL SYSTEM	FLOAT CONTROL
PUMP WEIGHT	-
RAIL SYSTEM	S.S. GUIDE RAILS
DISCHARGE SIZE	-

REVISIONS
1/12 - MSG EDITS
6/13 - MSG EDITS
4/14 - MSG EDITS
01/16 - MSG EDITS

AMERICAN WATER MILITARY SERVICES GROUP
CIVIL
STANDARD SMALL LIFT STATION
DETAIL

AMERICAN WATER MILITARY SERVICES GROUP
CAMDEN, NJ 08102

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DRAWN BY Z. ALAM
PROJECT ENGR J. DERUSSO
DATE 04-20-2010
APPROVED PROJECT M/A
USE DIMENSIONS ONLY
SCALE N.T.S.

USE APPROVED DRAWINGS ONLY FOR CONSTRUCTION PURPOSES
MSG-WW-01