

**EQUIPMENT NOTES**

1. THE CONTRACTOR SHALL FURNISH AND INSTALL DUAL ALTERNATING SUBMERSIBLE PUMPS ON SLIDE RAILS. EACH UNIT TO BE A FLYGT 3152 GRINDER TYPE 23 HP, PUMP OR APPROVED EQUAL.
2. THE CONTROL PANEL IS TO BE A FLYGT DUPLEX CONTROL SYSTEM OR APPROVED EQUAL. IT IS TO BE INSTALLED IN A WEATHERTIGHT ENCLOSURE A NEMA 1 STEEL ENCLOSURE. THE PANEL SHOULD INCLUDE 2 PUMP CIRCUIT BREAKERS, 2 MAGNETIC CONTACTORS, 2 RUN INDICATOR LIGHTS, AND 2 HAND-OFF-AUTOMATIC SWITCHES. THE PANEL SHOULD BE EQUIPPED WITH AUDIO/VISUAL ALARMS BY UTILIZING A 4" ALARM BELL, RED INDICATOR LIGHTS, AND AN OFF-RESET-NORMAL SWITCH.
3. THE FLOAT SYSTEM IS TO INCLUDE 4 MERCURY FLOAT BULBS TO INDICATE ON, OFF, LAG, AND ALARM.
4. ALL ELECTRICAL WORK IN AND INCIDENTAL TO PUMP CHAMBER SHALL COMPLY TO THE NATIONAL ELECTRICAL CODE FOR CLASS 1, GROUP D, DIVISION 1 LOCATIONS. NO SPLICING OF WIRES SHALL OCCUR WITHIN THE PUMP CHAMBER.
5. ALL PUMP AND CONTROL WIRING IS TO BE MADE DIRECTLY TO THE CONTROL PANEL WITHOUT ANY OUTSIDE SPLICES.

**CONSTRUCTION NOTES**

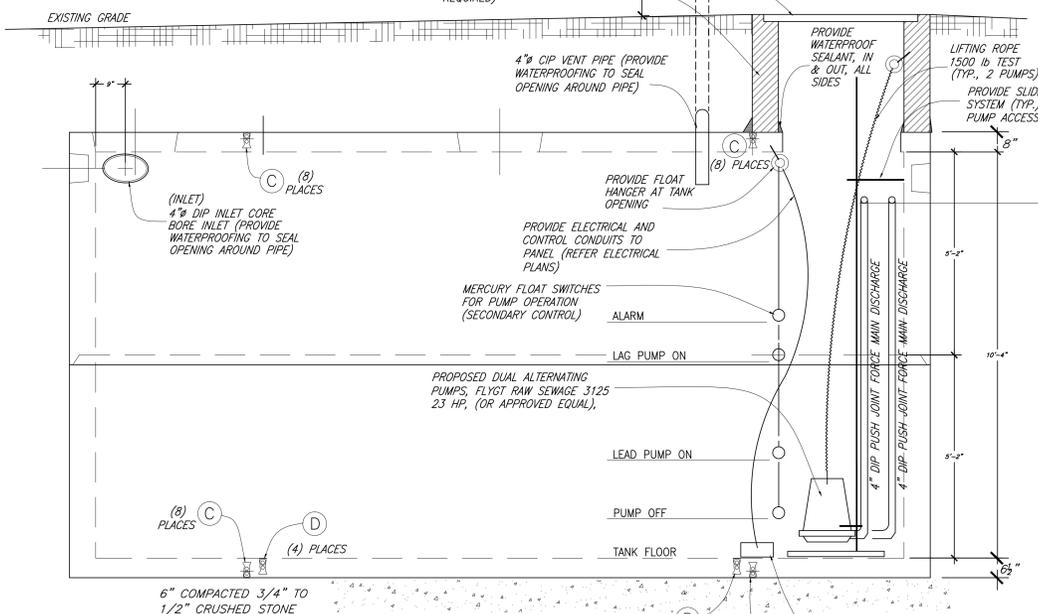
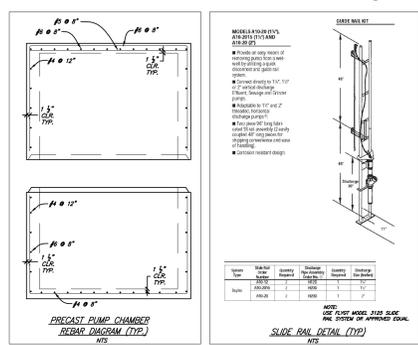
1. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO FIELD CHECK ALL DIMENSIONS SHOWN ON THE DRAWINGS PRIOR TO ANY FABRICATION AND INSTALLATION. THE CONTRACTOR SHALL MAKE ALL FURTHER MEASUREMENTS AS MAY BE REQUIRED FOR THE PROPER INSTALLATION OF THE WORK, AND HE SHALL ASSUME ALL RESPONSIBILITY FOR THE ACCURACY OF THE MEASUREMENTS. ANY DISCREPANCIES FOUND BETWEEN THE DIMENSIONS SHOWN ON THE DRAWINGS AND FIELD MEASURED DIMENSIONS SHALL BE REPORTED IMMEDIATELY TO THE OWNERS FIELD REPRESENTATIVE.
2. THE PUMP CHAMBER SHALL BE EQUAL TO CHASE WATER TIGHT PRECAST CONCRETE PUMP CHAMBER AS MANUFACTURED BY CHASE INC., AVON, CT. (OR APPROVED EQUAL)
3. MINIMUM SEPARATION DISTANCE FROM CHAMBER TO BUILDING FOUNDATION SHALL BE 10'-0".
4. ALL TANKS SHALL BE PLACED ON DRY COMPACTED SUB-BASE BENEATH 6" LAYER OF COMPACTED 3/4" TO 1 1/2" CRUSHED STONE BEDDING.
5. IF UNSTABLE MATERIAL IS ENCOUNTERED, IT SHALL BE REMOVED TO THE INDICATED BY DEPTH ENGINEER AND REPLACED WITH APPROVED COMPACTED CRUSHED STONE AS DIRECTED.
6. THE ENTIRE OUTSIDE SURFACE OF STRUCTURE SHALL BE COATED WITH A COAT OF BITUMASTIC SUPER BLACK.
7. ALL JOINTS SHALL HAVE PRE-FORMED JOINT SEALING COMPOUND.
8. PUMP CHAMBER ACCESS DOOR SHALL BE TYPE JL AS MANUFACTURED BY THE BILCO COMPANY (OR APPROVED EQUAL). ACCESS DOORS SHALL BE OF AN ALUMINUM DIAMOND PLATE PATTERN (MIN. 1/4" THICK) AND SHALL BE SUPPLIED COMPLETE WITH HINGED COVER, RELEASE HANDLE AND LOCK, EQUIPPED WITH SUPPORTS AND HOLDER FOR POWER AND CONTROL CORDS.
9. OBSERVING FINISHED GRADE AROUND THE EXISTING ADJACENT EFFLUENT PUMP STATION AT ELEVATION 630' WITH NO VISIBLE WATER CONDITION, AND THE BOTTOM OF THE PROPOSED EQUALIZATION TANK AT ELEVATION 627' AND THE TANK WEIGHT AT 87,000 #S BUOYANCY WILL BE PREVENTED. (SEE CALCULATION BELOW)

**CALCULATION**

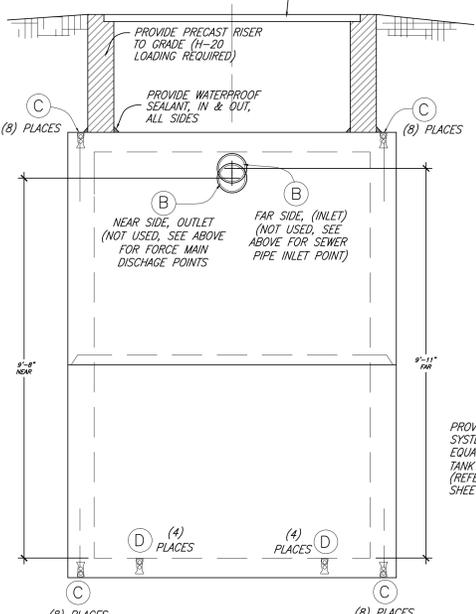
$$\begin{aligned} \text{BUOYANCY} &= A \times g \times h \\ &= (20.5' \times 8.33')(62.4)(11') = 117,213 \text{ lbs} \\ \text{TANK WEIGHT} &= 87,000 \text{ lbs} \\ \text{FILL ABOVE TANK} &= 3' \times (20.5' \times 8.33')(115 \text{ lbs/cf}) \\ &= 58,913 \text{ lbs} \\ \text{TOTAL WEIGHT} &= 87,000 \text{ lbs} + 58,913 \text{ lbs} \\ &= 145,913 \text{ lbs} \\ \bullet & 145,913 \text{ lbs} > 117,213 \text{ lbs (TANK WILL NOT FLOAT)} \end{aligned}$$

**DESIGN NOTES**

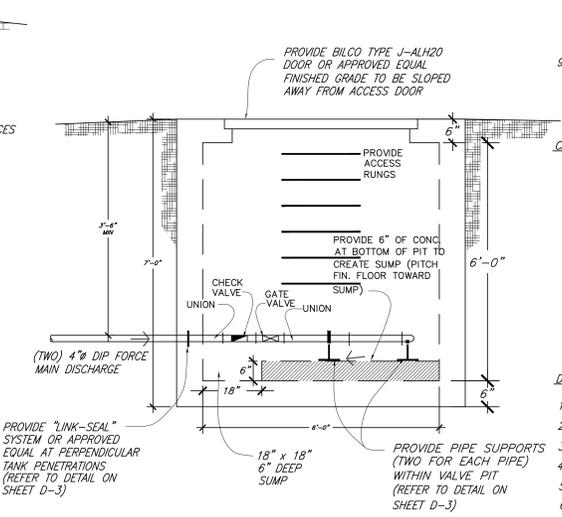
1. CONCRETE: 5000 PSI @ 28 DAYS.
2. REBAR: GRADE 60 PER ASTM A615.
3. DESIGN LOADING: H-20
4. GENERAL CONTRACTOR TO VERIFY ALL OPENINGS SIZES AND LOCATIONS.
5. ALL PIPE AND ROOF OPENINGS HAVE ADDITIONAL REBAR REINFORCEMENT.
6. JOINT TO BE SEALED WITH 1" BUTYL RUBBER.
7. ALL HARDWARE SHOWN BUT NOT DIMENSIONED IS FOR VISUAL REFERENCE ONLY-DO NOT SCALE FOR PLACEMENT.



**ELEVATION VIEW (EQUALIZATION TANK)**  
NTS



**SIDE VIEW (EQUALIZATION TANK)**  
NTS

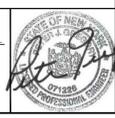


**PRECAST CONCRETE VALVE PIT ELEVATION VIEW**  
NTS

LTR	QTY	DESCRIPTION
(A)	3	24" DIA. CLEANOUT
(B)	4	8" KNOCKOUT
(C)	8	BURKE (8) TON ERECTION ANCHOR
(D)	4	BURKE (8) TON FLATFOOT ANCHOR

ANY DETAIL NOT SPECIFICALLY SHOWN ON THE SITE PLAN WILL BE UTILIZED WHEN FIELD CONDITIONS WARRANT AS DIRECTED BY THE ENVIRONMENTAL MONITOR  
UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS DRAWING IS A VIOLATION OF SECTION 2209, SUB-DIVISION 2, OF THE NEW YORK STATE EDUCATION LAW.

<b>OWNER / APPLICANT</b> J&F Of North Salem Box 20720 Cherokee Station New York, NY 10021-0074 Tel: (212) 988-8253 Fax: (775) 923-2292 Email: jof@northsalem@gmail.com	<b>PLANNING &amp; LANDSCAPE DESIGN</b> T.M. MILLER ASSOCIATES, INC. 10 North Street Cold Spring, NY 10516 Tel: (845) 265-4400 www.tmmillerassociates.com	<b>PROJECT SURVEYOR</b> BUNNEY ASSOCIATES Professional Land Surveyor 301 Fields Lane Brewster, NY 10509 Tel: (845) 277-3404 e-mail: bunney.associates@verizon.net	<b>PROJECT ENGINEER</b> KEANE COPPELMAN GREGORY ENGINEERS, P.C. 113 Smith Avenue Mount Kisco, NY 10549 Tel: 914.241.2235 e-mail: INFO@KCGENGINEERS.COM
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REV.	DESCRIPTION	BY	DATE
1	NYC DEP COMMENTS	PL	July 24, 2006
2	TOWN REVIEW	PL	Nov 15, 2006
3	TOWN REVIEW	PL	Sept 2, 2008
4	TOWN REVIEW	DPG	April 16, 2010
5	TOWN PLANNER MEMO (7/8/2010) & TOWN ENGINEER MEMO (7/9/2010)	DPG	December 29, 2010
6	TOWN PLANNER MEMO (9/9/2011) & TOWN ENGINEER MEMO (9/3/2011)	DPG	February 24, 2012
7	COMPLETENESS SUBMISSION	DPG	July 31, 2012
8	ACCEPTED DRAWING SET	DPG	September 12, 2012
9	RESOLUTION 139-13	PJG	April 22, 2013

TYPICAL LIFT STATION FOR WASTEWATER TREATMENT FACILITY  
HIGHGATE - WOODLANDS AT NORTH SALEM  
REED ROAD AND HARDCRABBLE ROAD  
TOWN OF NORTH SALEM  
COUNTY OF WESTCHESTER  
STATE OF NEW YORK

DRAWN BY: RN CHECKED BY: DC  
SCALE: AS NOTED  
DATE: NOVEMBER 1, 2005  
JOB NUMBER SHEET  
PS-1, 29 of 39