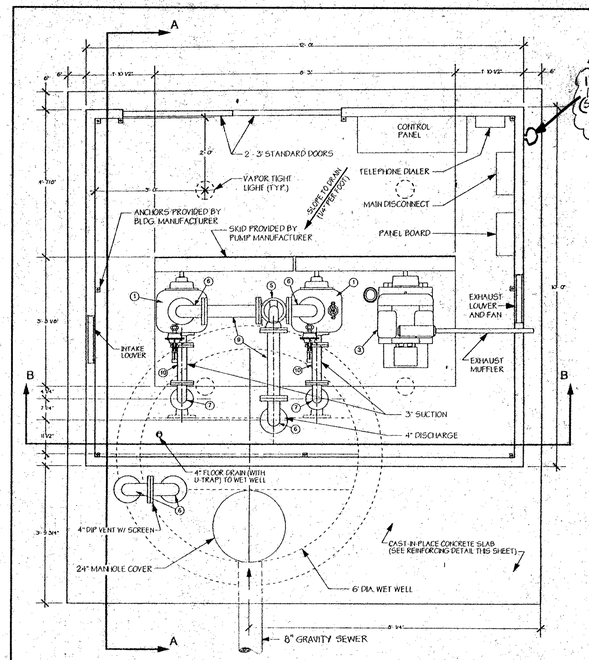
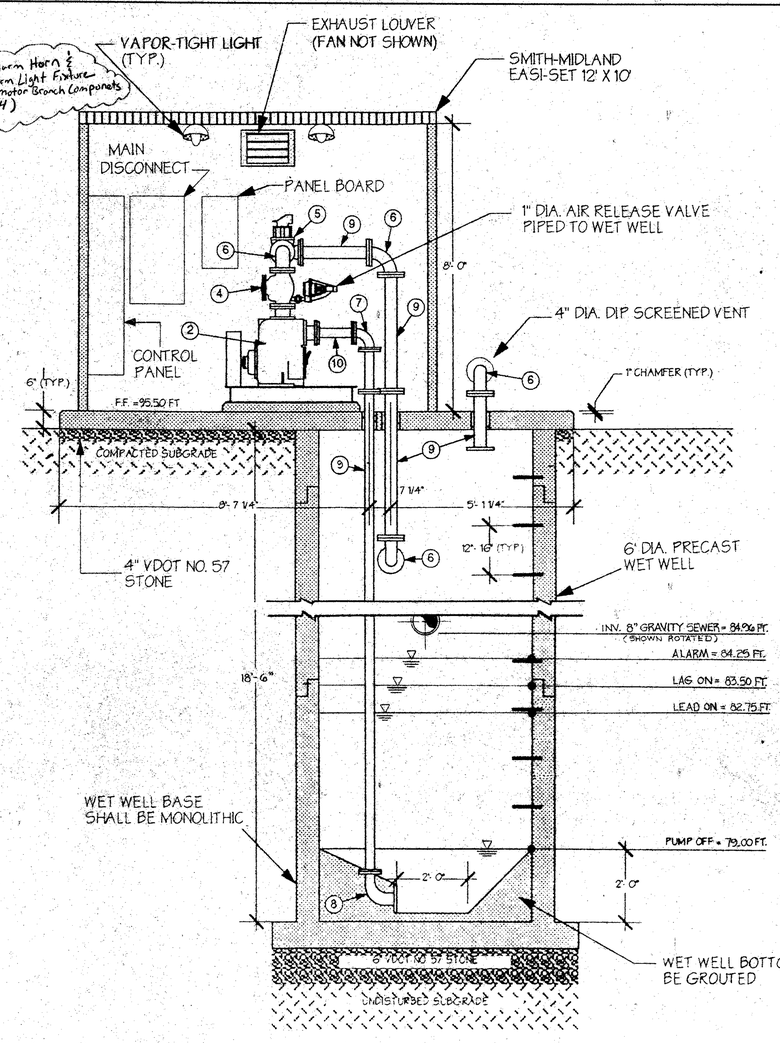


PUMP STATION LAYOUT

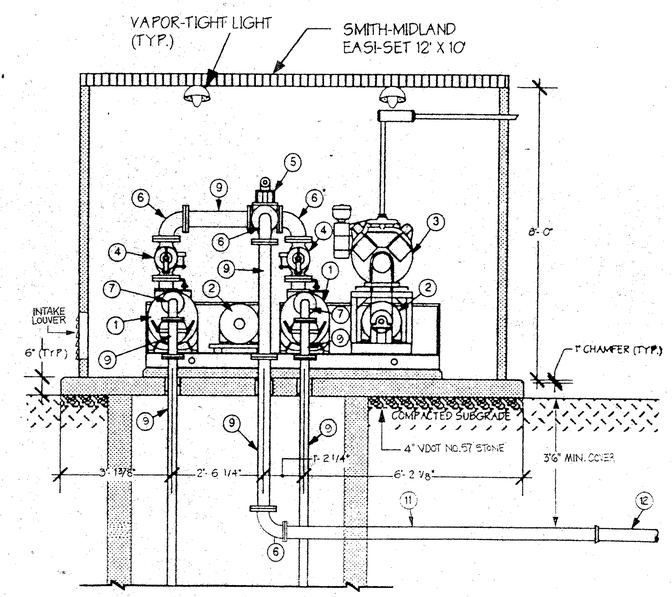
SCALE: 1/2" = 1'- 0"

115 volt Alarm Horn & 115 volt Alarm Light Fixture (See spec motor Branch Components 0, 3 and 4)



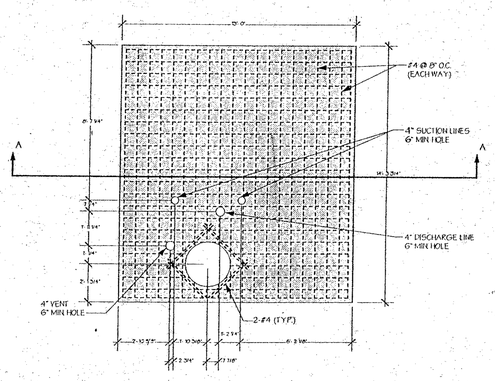
SECTION A-A

SCALE: 1/2" = 1'- 0"

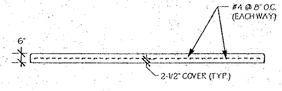


SECTION B-B

SCALE: 1/2" = 1'- 0"



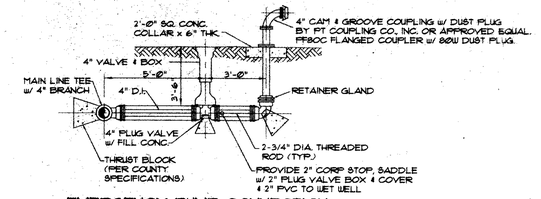
PLAN VIEW



SECTION A-A

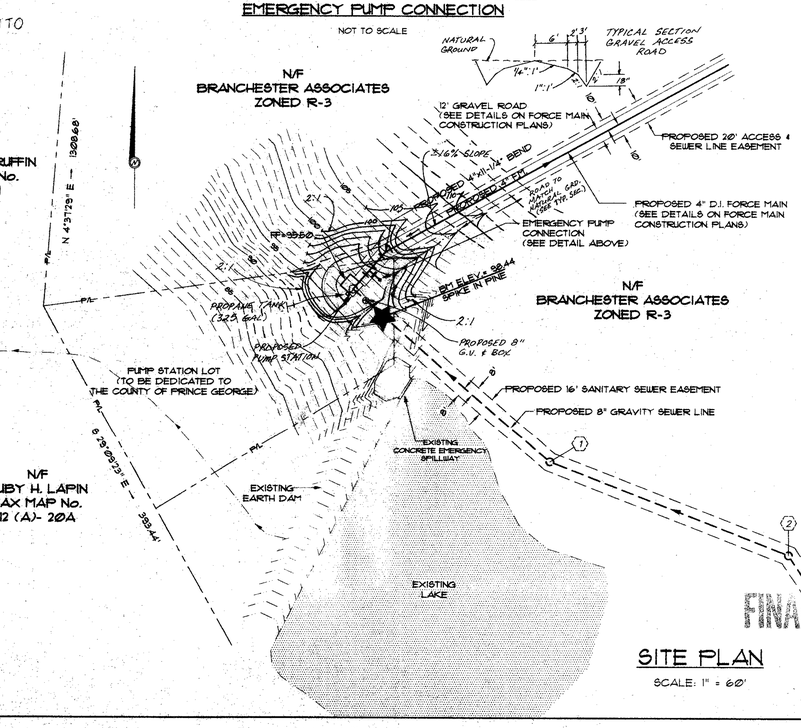
CONCRETE SLAB REINFORCING DETAIL

SCALE: 1/4" = 1'- 0"



EMERGENCY PUMP CONNECTION

NOT TO SCALE



SITE PLAN

SCALE: 1" = 60'

PUMP STATION NOTES

1. PUMPS SHALL BE GORMAN RUPP T3A3-B SUCTION LIFT PUMPS (OR APPROVED EQUAL) OPERATING AT APPROXIMATELY 1,750 RPM WITH A 15 HP MOTOR. EACH PUMP SHALL BE CAPABLE OF PROVIDING APPROXIMATELY 188 GPM AGAINST A TOTAL DYNAMIC HEAD OF 70 FEET.
2. ALL PIPE INSIDE THE WET WELL SHALL BE FLANGED DUCTILE IRON. PIPE FITTINGS SHALL BE CAST IRON. PIPING SHALL BE COATED WITH AN EXTERIOR BITUMINOUS COATING.
3. ALL DUCTILE IRON PIPING IN THE CONTROL BUILDING SHALL BE CLEANED WITH AN INDUSTRIAL GRADE CHEMICAL CLEANER, PRIMED WITH A ZINC BASE SYNTHETIC PRIMER AND FINISHED WITH AN AUTOMOTIVE GRADE ACRYLIC ENAMEL.
4. ALL PRE-CAST REINFORCED CONCRETE MANHOLE SECTIONS SHALL CONFORM TO ASTM C478.
5. ALL JOINTS FOR PRE-CAST CONCRETE SECTIONS SHALL BE SEALED WITH A BUTYL RUBBER SEALANT.
6. THE BASE SECTION OF THE WET WELL SHALL BE MONOLITHIC.
7. CAST-IN-PLACE CONCRETE SECTIONS INCLUDING REINFORCEMENT SHALL CONFORM TO ALL APPLICABLE REQUIREMENTS OF ACI 301, 318, 318, AND 347.

ELECTRICAL NOTES

1. THE CONTRACTOR SHALL COORDINATE ALL POWER SERVICE CONNECTIONS WITH THE POWER COMPANY.
2. COORDINATE LOCATION OF SERVICE POLE WITH POWER COMPANY, WITHIN A DISTANCE OF 25'-0" FROM CONTROL BUILDING.
3. The "Verbatim Automatic Dialing Remote Monitoring system shall provide Signal conditions of the pumpstation of Low water alarm, High water alarm Power outage and pump failure. A test Function shall be supplied in the control panel.

*4. Surge protection and phase protection to be provided for electrical Service

DESCRIPTION OF MATERIALS

ITEM NO.	DESCRIPTION
1.	GORMAN-RUPP T3A3-B SUCTION-LIFT PUMP
2.	15 HP MOTOR (PROVIDED BY PUMP MANUFACTURER)
3.	BACKUP ENGINE (PROVIDED BY PUMP MANUFACTURER)
4.	4" CHECK VALVE (PROVIDED BY PUMP MANUFACTURER)
5.	4" PLUG VALVE (PROVIDED BY PUMP MANUFACTURER)
6.	4" 90° FLANGED ELBOW
7.	3"x4" 90° FLANGED REDUCING ELBOW
8.	4"x6" 90° FLANGED REDUCING ELBOW
9.	4" FLANGED D.I. PIPE
10.	3" FLANGED D.I. PIPE
11.	4" FLANGED/PLAIN-END D.I. PIPE
12.	4" D.I. PIPE (CLASS 52)

KIMMONS & ASSOCIATES, P.C.
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8803 STAPLES MILL ROAD, RICHMOND, VIRGINIA 23228, TELEPHONE: (804) 262-7386
4411 CROSSING BOULEVARD, PRINCE GEORGE, VIRGINIA 23875, TELEPHONE: (804) 458-8885
6717 MECHANICSVILLE TURNPIKE, MECHANICSVILLE, VA 23111-4621, TELEPHONE: (804) 559-5200

COMMONWEALTH OF VIRGINIA — STIG OWENS No. 21331 — 5/10/95 — PROFESSIONAL ENGINEER

DATE	REVISIONS
5-8-95	REVISED PUMP HOUSE
5-25-95	ADD SWALE, SHOW LOG. fan at Alarm. add Note #3 & #4 (only)
6-20-95	COUNTY REVISIONS

DATE	3-30-95
DRAWN BY	G.L.
DESIGNED BY	S.O.
CHECKED BY	
SCALE	AS NOTED

BRANCHESTER LAKES · SUBDIVISION

SANITARY SEWER LIFT STATION

SHEET NO. 4 of 4

JOB NO. 16119-7