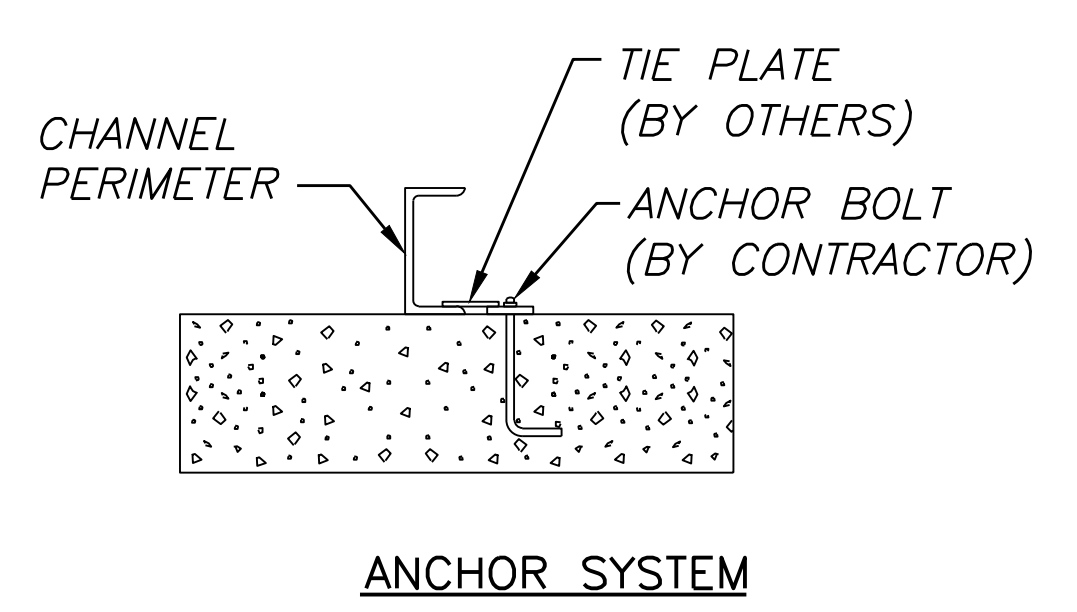
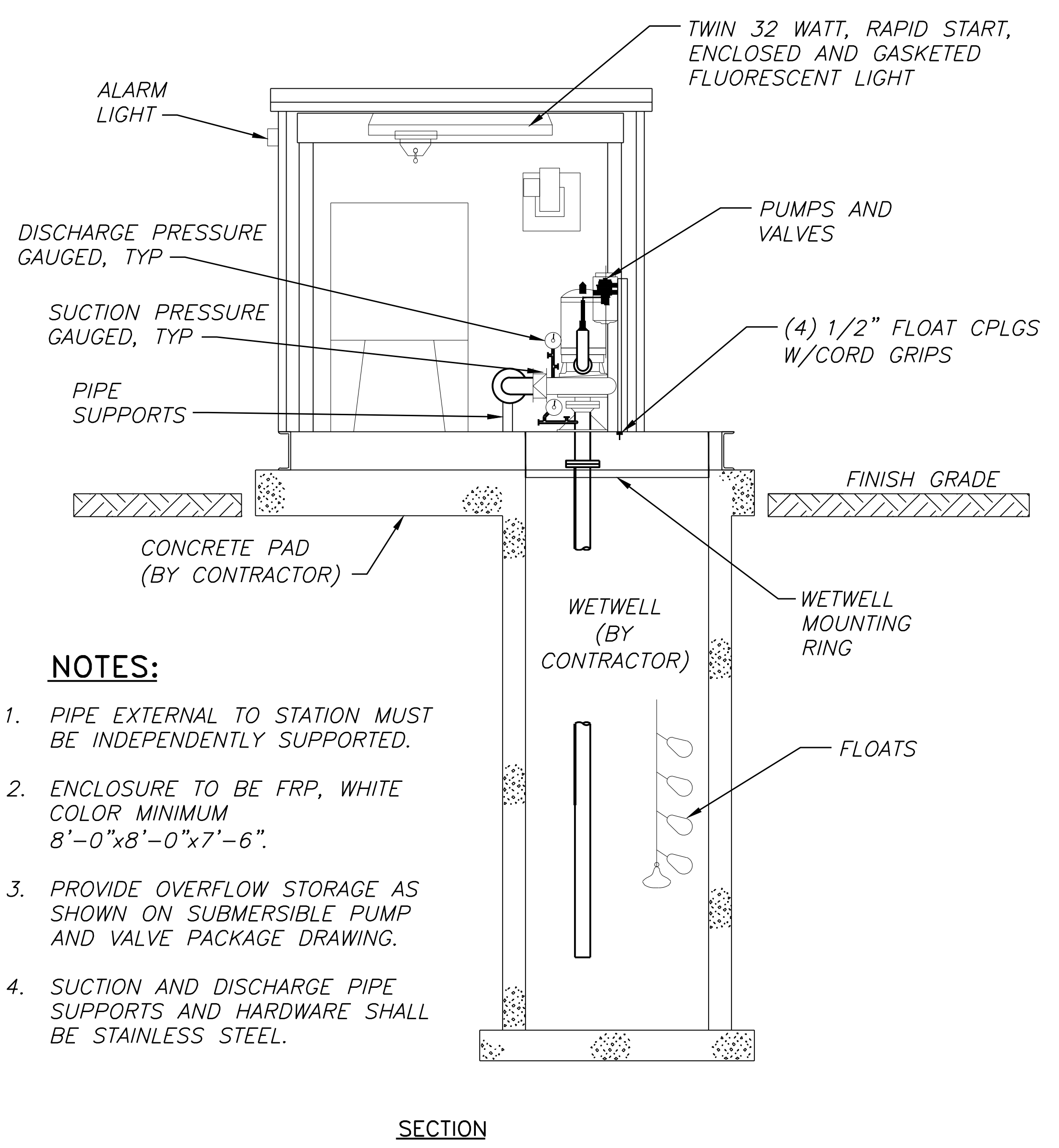
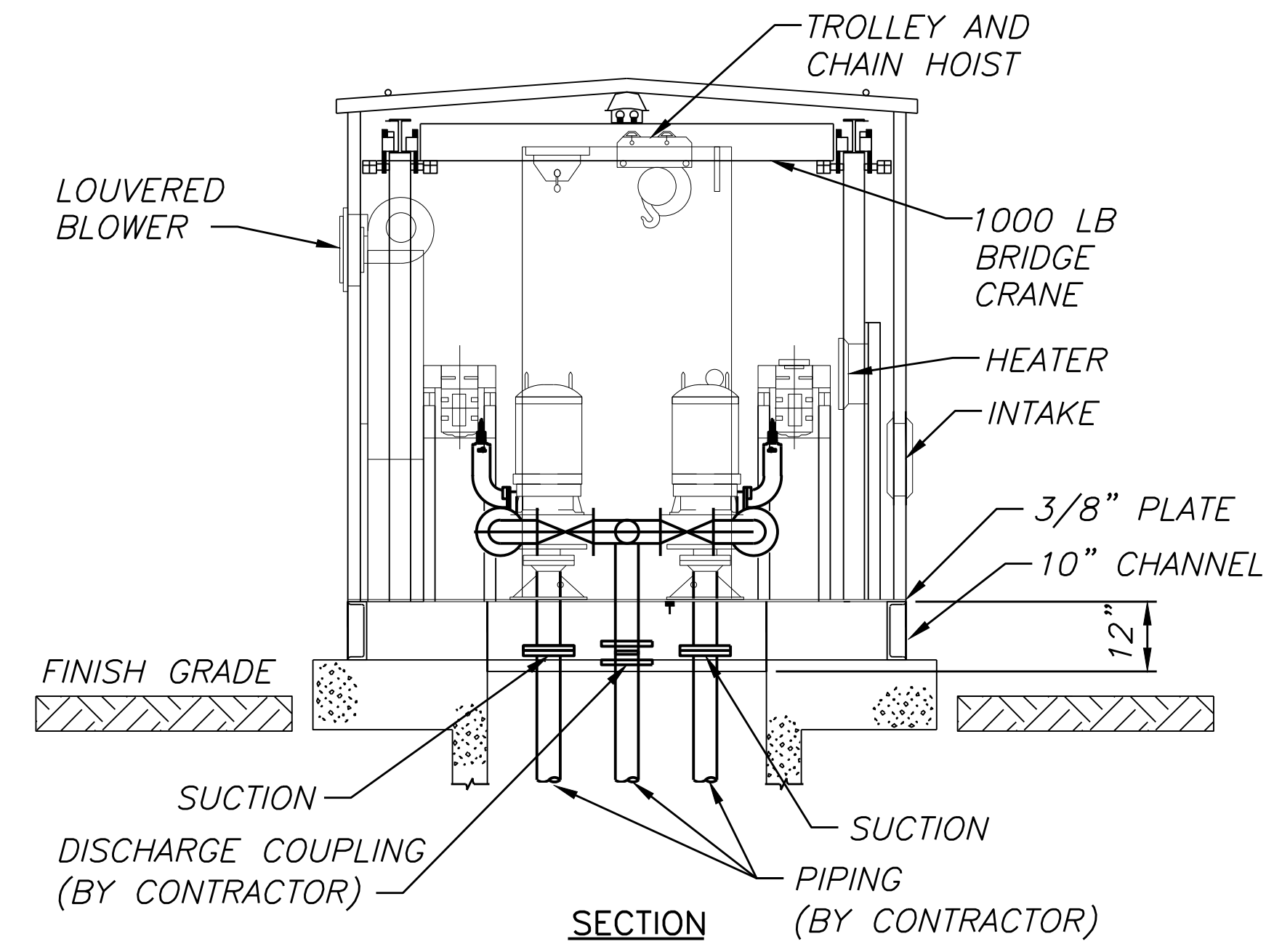
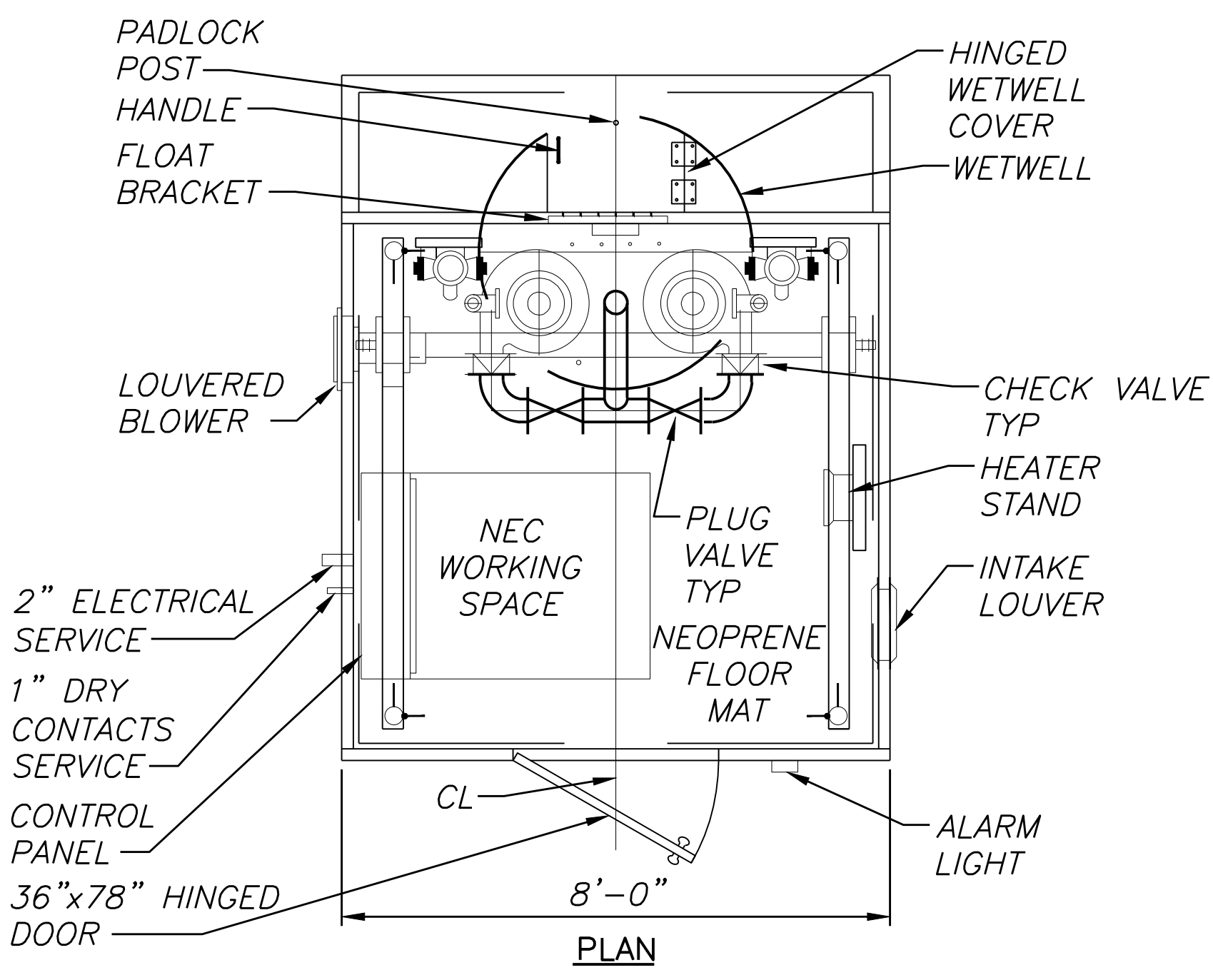
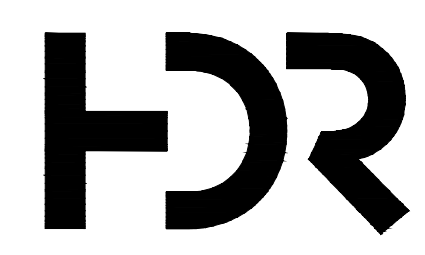




- NOTES:**
1. PIPE EXTERNAL TO STATION MUST BE INDEPENDENTLY SUPPORTED.
  2. ENCLOSURE TO BE FRP, WHITE COLOR MINIMUM 8'-0"x8'-0"x7'-6".
  3. PROVIDE OVERFLOW STORAGE AS SHOWN ON SUBMERSIBLE PUMP AND VALVE PACKAGE DRAWING.
  4. SUCTION AND DISCHARGE PIPE SUPPORTS AND HARDWARE SHALL BE STAINLESS STEEL.

**ABOVE GRADE PUMP STATION**  
NO SCALE



HDR  
MISSOURI CERTIFICATE OF  
AUTHORITY #: 000856  
10450 HOLMES ROAD, SUITE 600  
KANSAS CITY, MO 64131  
816-360-2600

| ISSUE | DATE | DESCRIPTION |
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| PROJECT MANAGER | AARON BRESSETTE |
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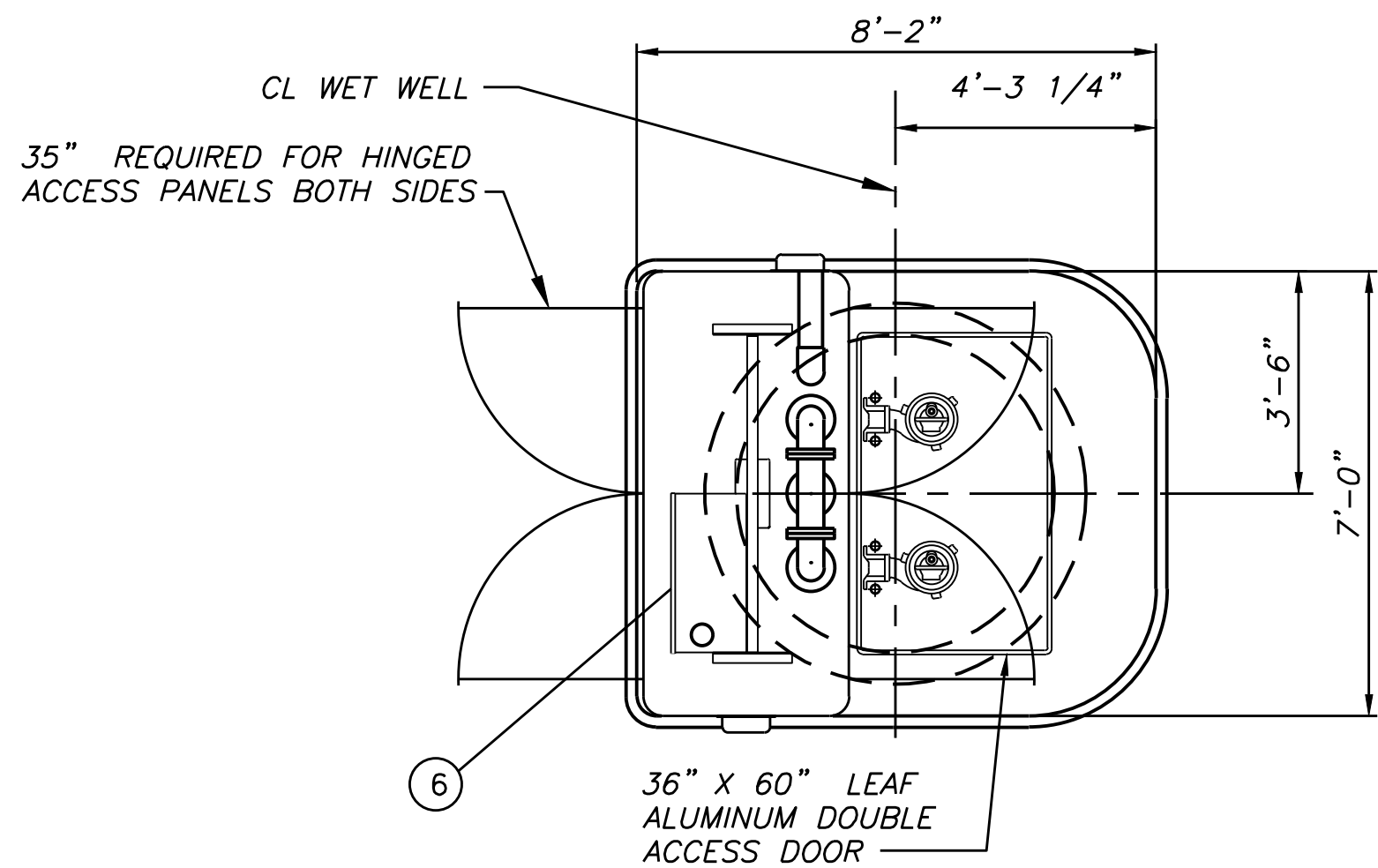


**CITY OF SMITHVILLE, MISSOURI**  
**PUMP STATION DETAILS**

**ABOVE GROUND PUMP STATION  
WITH DUPLEX SELF-PRIMED  
OR VACUUM-PRIMED PUMPS**

0 1" 2" SCALE N.T.S.

FILENAME ABOVE\_PS.DWG SHEET

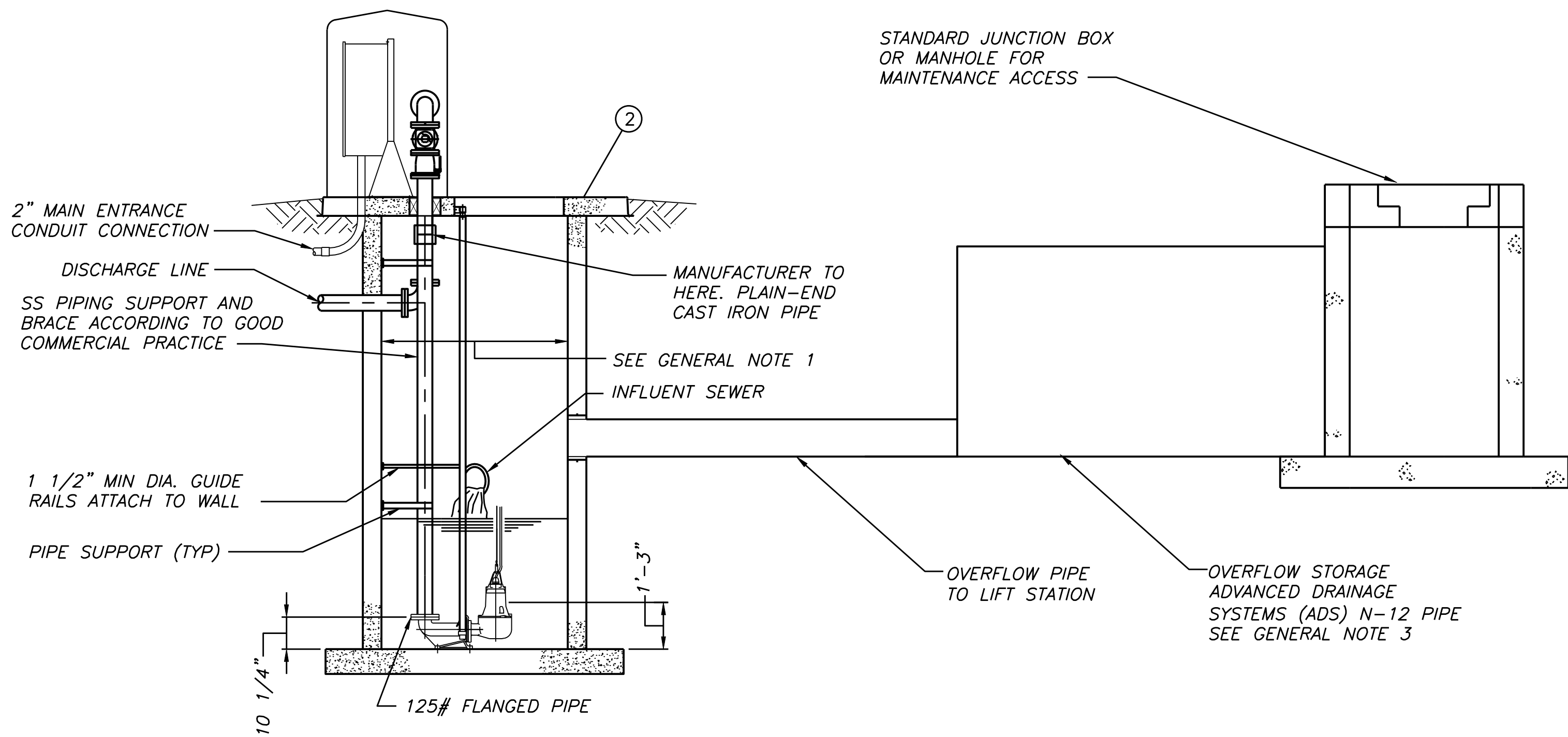


SUBMERSIBLE PUMP AND ABOVE  
GROUND VALVE PACKAGE – PLAN  
NO SCALE

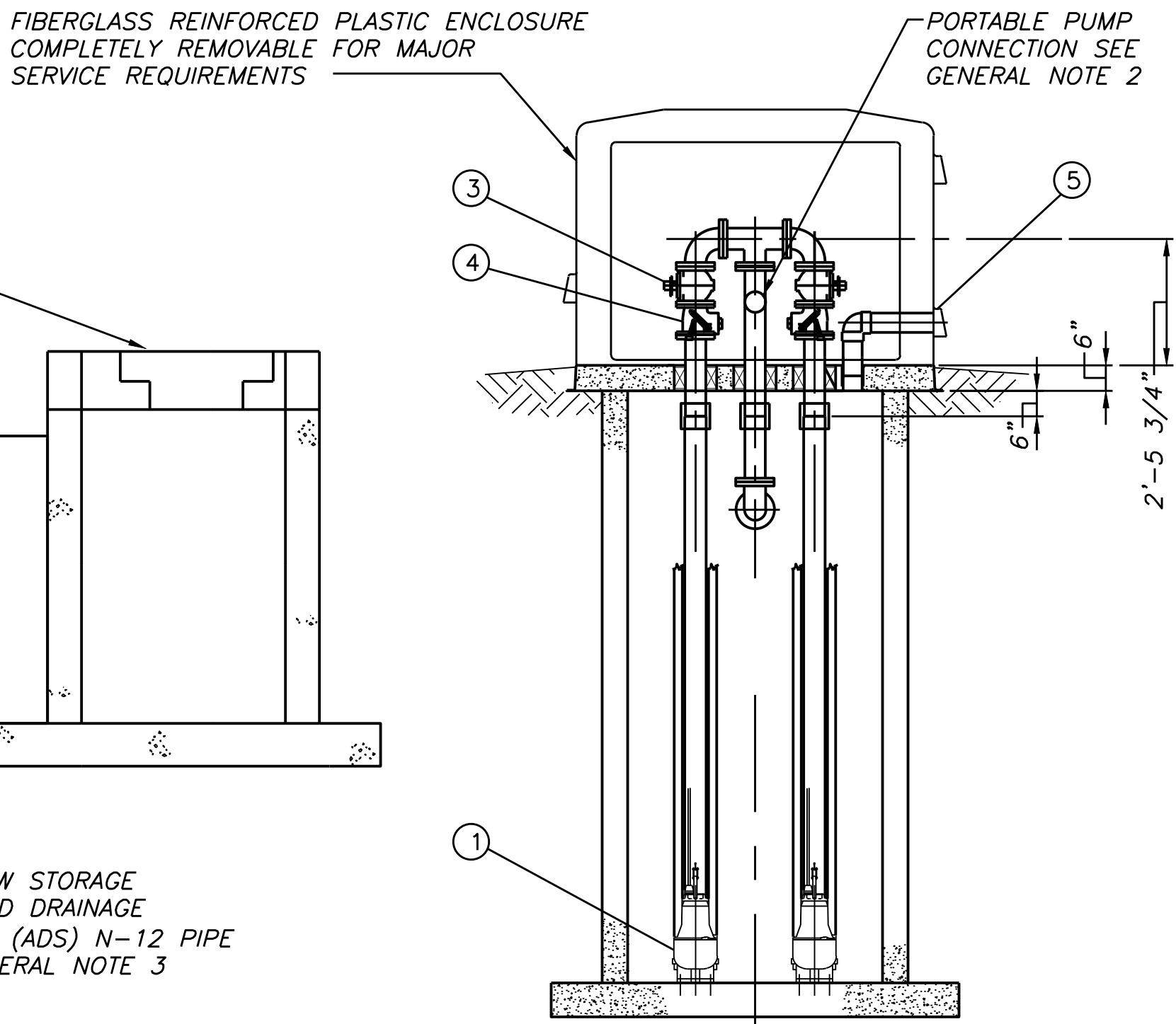
| MATERIALS TABLE |                    |                 |
|-----------------|--------------------|-----------------|
| ITEM            | DESCRIPTION        | MAT'L & SIZE    |
| 1               | PUMP               | CAST IRON       |
| 2               | BASE               | CAST CONCRETE   |
| 3               | PLUG VALVE         | CAST IRON       |
| 4               | CHECK VALVE        | CAST IRON       |
| 5               | WETWELL VENT       | SCH 80 PVC      |
| 6               | CONTROL PANEL      | STEEL           |
| 7               | SUCTION PIPE       | SCH 80 PVC      |
| 8               | DISCHARGE PIPE     | SCH 80 PVC      |
| 9               | PUMP LIFTING CHAIN | STAINLESS STEEL |

GENERAL NOTES:

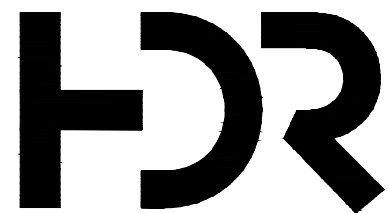
1. THE DIAMETER OF THE WETWELL AND THE DISTANCE FROM THE INVERT OF THE INFLUENT LINE TO THE HIGH WATER LEVEL SHOULD BE PROPERLY DESIGNED TO ALLOW AT LEAST A MAXIMUM 6 PUMP STARTS PER HOUR.
2. PROVIDE QUICK COUPLING WITH CAP AND ISOLATION VALVE TO PERMIT EMERGENCY ACCESS TO THE PUMP STATION FORCEMAIN AFTER ISOLATION OF THE PUMPS. VERIFY COMPATIBILITY WITH OWNER'S PORTABLE PUMP SYSTEM.
3. STORAGE MAX LEVEL WATER TO BE BELOW INFLUENT INVERT.



SIDE ELEVATION VIEW  
NO SCALE

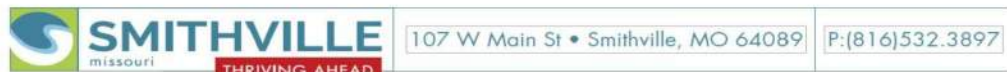


FRONT ELEVATION VIEW  
NO SCALE



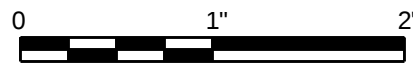
HDR  
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| PROJECT MANAGER |      |             | AARON BRESSETTE |  |  |
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CITY OF SMITHVILLE, MISSOURI  
PUMP STATION DETAILS

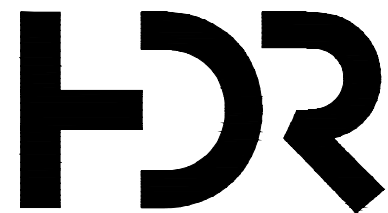
SUBMERSIBLE PUMP AND  
ABOVE GROUND VALVE PACKAGE



FILENAME | BELOW\_PS.DWG  
SCALE |

SHEET

C:\pwworking\hdm\4237090\DETAILS\_PS.dwg PLOT: 1/28/2020 11:32:05 AM WSHERRAN

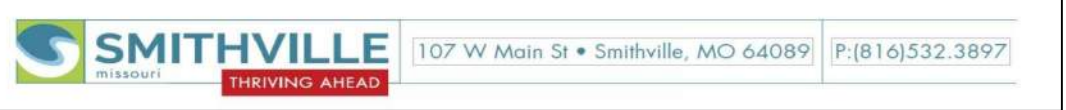


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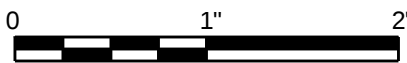
| ISSUE | DATE | DESCRIPTION |
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| PROJECT MANAGER | AARON BRESSETTE |
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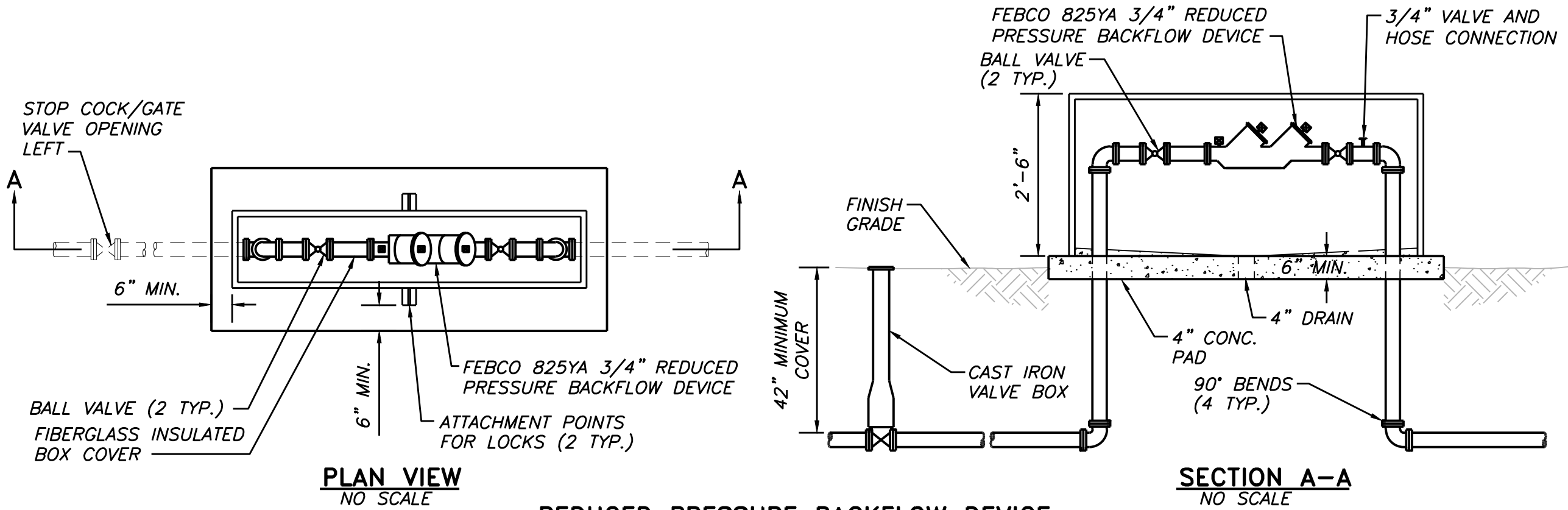
CITY OF SMITHVILLE, MISSOURI  
PUMP STATION DETAILS



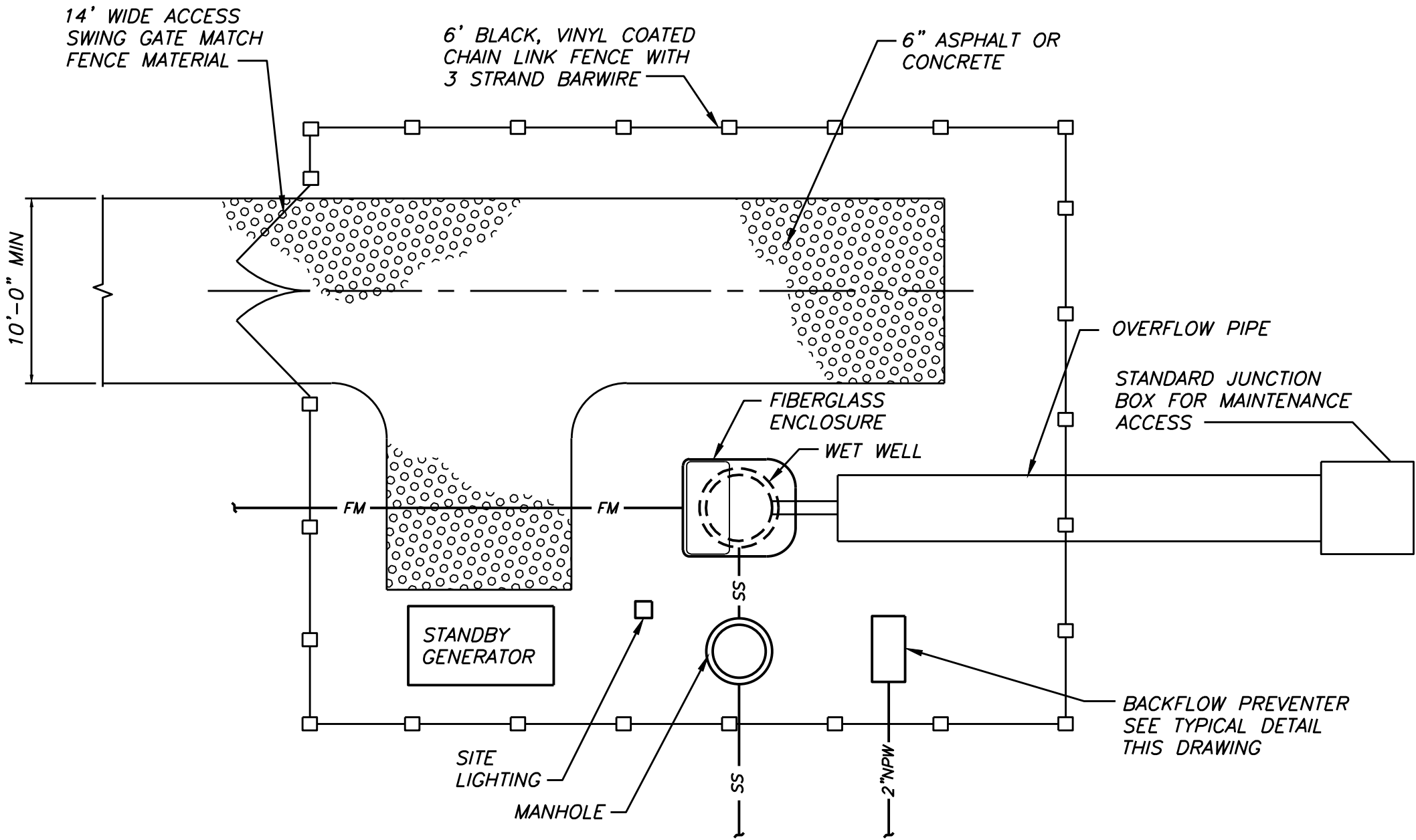
FILENAME | DETAILS\_PS.DWG  
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SHEET

TYPICAL DETAILS



1. A DEPARTMENT OF NATURAL RESOURCES APPROVED REDUCED PRESSURE BACKFLOW DEVICE MUST BE USED.
2. PAD SHALL BE A MINIMUM OF 4" THICK POURED CONCRETE, AND LOCATED OUTSIDE THE TRAFFIC AREA WHERE SURFACE WATER WILL NOT DRAIN TO IT.
3. THE REDUCED PRESSURE BACKFLOW DEVICE ASSEMBLY SHALL BE COVERED BY A FIBERGLASS INSULATED REMOVABLE BOX.
4. THERE SHALL BE PROVISIONS MADE FOR A LOCKING MECHANISM TO KEEP THE INSULATED BOX SECURELY IN PLACE.
5. ALL REDUCED PRESSURE BACKFLOW DEVICE FITTINGS ARE TO BE BRASS.
6. INSTALL THREADED HOSE CONNECTION AND VALVE DOWNSTREAM OF RPZ.
7. COPPER PIPE



TYPICAL WETWELL SITE  
NO SCALE