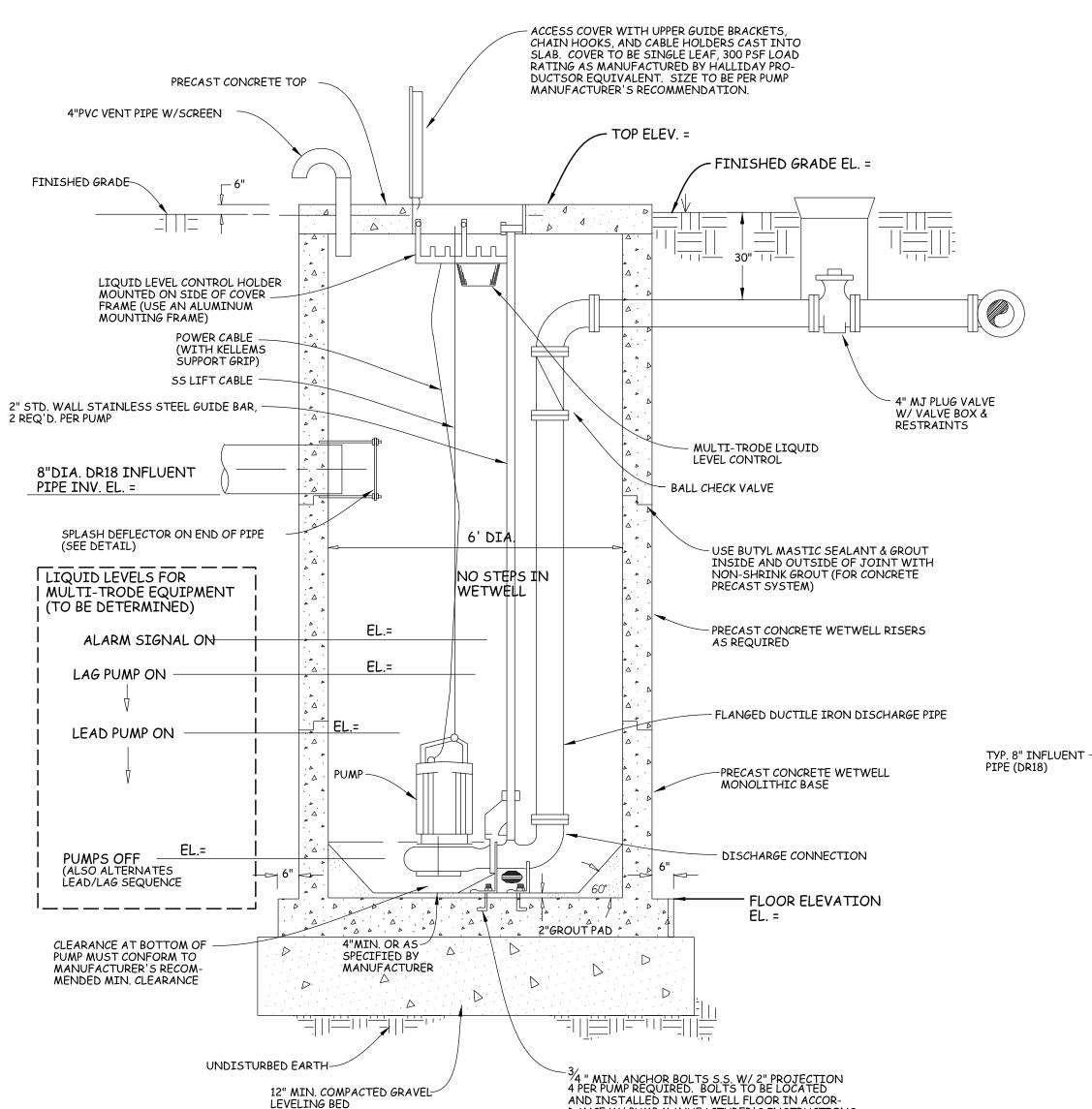


#### TYPICAL PLAN - DUPLEX PUMP STATION N.T.S.



## TYPICAL SECTION THRU PUMP STATION

N.T.S.

DANCE W/ PUMP MANUFACTURER'S INSTRUCTIONS.

LEVELING BED

# PUMP STATION SCHEDULE

| 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | PIPE I.D.            | DR-18 |
|---------------------------------------|----------------------|-------|
|                                       | ELEVATION            |       |
| 1111111111                            | INSIDE DIAMETER      |       |
|                                       | TOP ELEVATION        |       |
|                                       | HIGH WATER LEVEL     |       |
|                                       | LOW WATER LEVEL      |       |
|                                       | FLOOR ELEVATION      |       |
| JULY JOOK LEEL V.                     | ALARM SIGNAL ON      |       |
|                                       | LAG PUMP ON          |       |
|                                       | LEAD PUMP ON         |       |
|                                       | PUMPS OFF            |       |
|                                       | MODEL (PUMP/MANUF.)  |       |
|                                       | IMPELLER (SELECTION) |       |
| DISCHARGE PIPING                      |                      |       |
| CHECK VALVE SIZE                      |                      |       |
| PLUG VALVE SIZE                       |                      |       |
| DESIGN FLOW*                          |                      |       |
| DESIGN HEAD* (TDH)                    |                      |       |
| VOLTAGE                               |                      |       |
| PHASE                                 |                      |       |
| HORSEPOWER                            |                      |       |
|                                       |                      |       |

### PUMP STATION NOTES

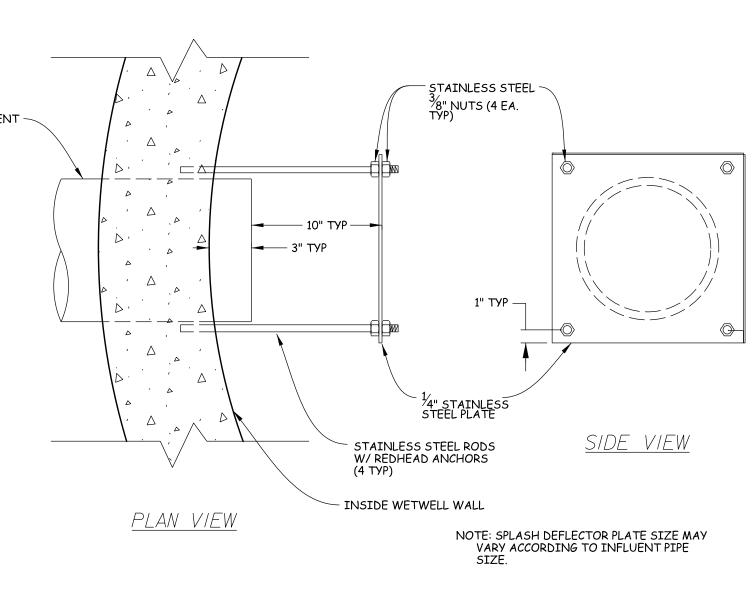
- 1. ALL WORK AND MATERIALS SHALL CONFORM TO REQUIREMENTS OF GRAND STRAND WATER & SEWER AUTHORITY SEWER SYSTEM STANDARDS
- 2. ALL HINGES, GUIDE HOLDERS, CABLE HOLDERS, ALL NUTS, BOLTS, WASHERS, AND OTHER FASTENERS SHALL BE 302 STAINLESS STEEL.
- 3. THE NEMA 4X ENCLOSURES SHALL BE STAINLESS STEEL OR FIBERGLASS, AND RAIN TIGHT. A REMOTE TELEMETRY PANEL SHALL

RPM (PUMP/MOTOR)

- 4. ALL WETWELL HARDWARE SHALL BE MOUNTED SUCH THAT ANY COMPONENT CAN BE REMOVED.
- 5. THE POWER CABLE IS TO BE WIRED NON-STOP FROM THE PUMP TO THE BOTTOM OF THE STARTER WITH NO JUNCTION BOXES OR SPLICES IN BETWEEN. POWER CABLE WITHIN WET WELL SHALL BE SUPPORTED USING KELLEMS SINGLE EYE CLOSED MESH SUPPORT GRIPS (SIZED FOR CABLE DIA.) AND ATTACHED TO THE PUMP CABLE SUPPORT HOOKS.
- 6. WETWELL SECTIONS SHALL CONFORM TO ASTM C-478.

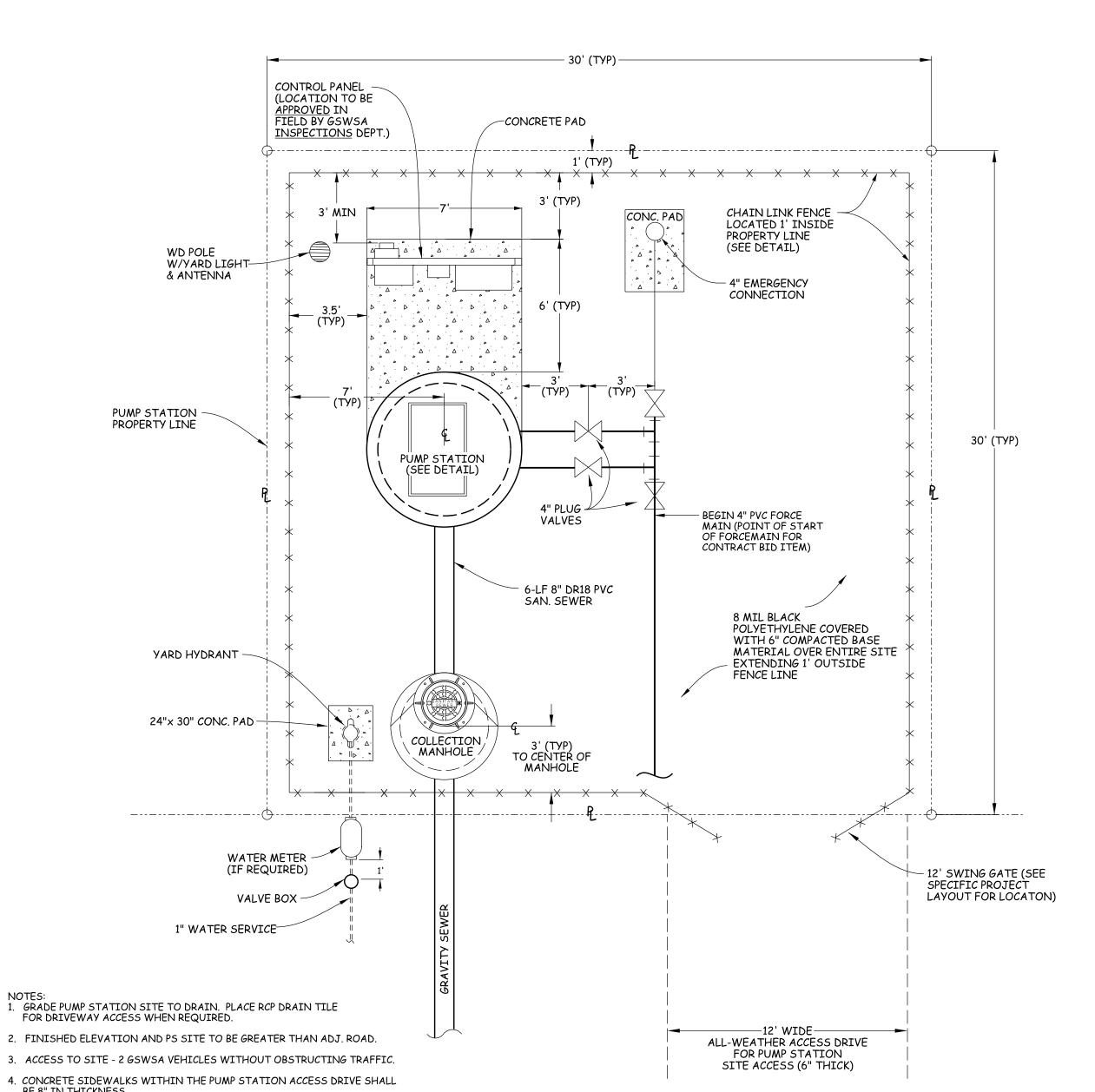
BY GSWSA INSPECTIONS DEPT.

- 7. ALL PIPING WITHIN THE WETWELL SHALL BE CLASS 50 DUCTILE IRON
- 8. PUMPS AND MOTORS SHALL HAVE A STAINLESS STEEL CABLE FOR LIFTING. THE LENGTH SHALL REACH TO THE TOP OF THE STATION PLUS AN ADDITIONAL SIX FEET. CABLES SHALL BE 5/16" DIAMETER FOR PUMPS UP TO 20 HP AND 3/8" DIAMETER FOR PUMPS IN EXCESS OF 20 HP.
- 9. LOCATION OF THE CONTROL PANEL WILL BE DETERMINED IN THE FIELD
- 10. INFLUENT PIPING TO PUMP STATION SHALL BE DR18 PVC.
- \_\_ HP, 230 VOLTS, 3 PH MOTOR. SHOP DRAWINGS WILL BE REQUIRED.
- 12. CONTROL PANEL IS TO CONTAIN AN AUDIO AND VISUAL HIGH LEVEL ALARM VISUAL ALARM MUST HAVE 360° VISIBILITY.
- 13. PROVIDE ALUMINUM LADDER, LENGTH ADEQUATE TO EXTEND FROM BOTTOM OF WETWELL TO 4' BEYOND HATCH AND TO BE RATED AT 375 POUNDS. LADDER TO BE PROVIDED TO GSWSA O&M DEPT. AT TIME OF FINAL INSPECTION.
- 14. PUMP SPARE PARTS TO BE PROVIDED PER GSWSA SPECIAL CONTRACT PROVISIONS.
- 15. THE LIQUID LEVEL CONTROLS SHALL BE MULTI-TRODE. WITH THE PUMP ON/OFF & ALARM LEVELS TO BE DETERMINED BY THE ENGINEER OF WORK AND APPROVED BY GSWSA. THE TRANSMITTER-RECEIVER IS TO BE MOUNTED IN THE PUMP CONTROL PANEL.
- 16. INTERIOR COATING FOR WET WELL TO COMPLY WITH 4.2.8-J. GSWSA SPECIFICATIONS.
- 17. PUMP STATION WETWELL WILL BE EQUIPPED WITH FALL PROTECTION AS PER 4.2.15 OF GRAND STRAND WATER & SEWER AUTHORITY SEWER SYSTEM STANDARDS & SPECIFICATIONS.



### TYPICAL SPLASH DEFLECTOR PLATE

N.T.S.



PUMP STATION SITE PLAN

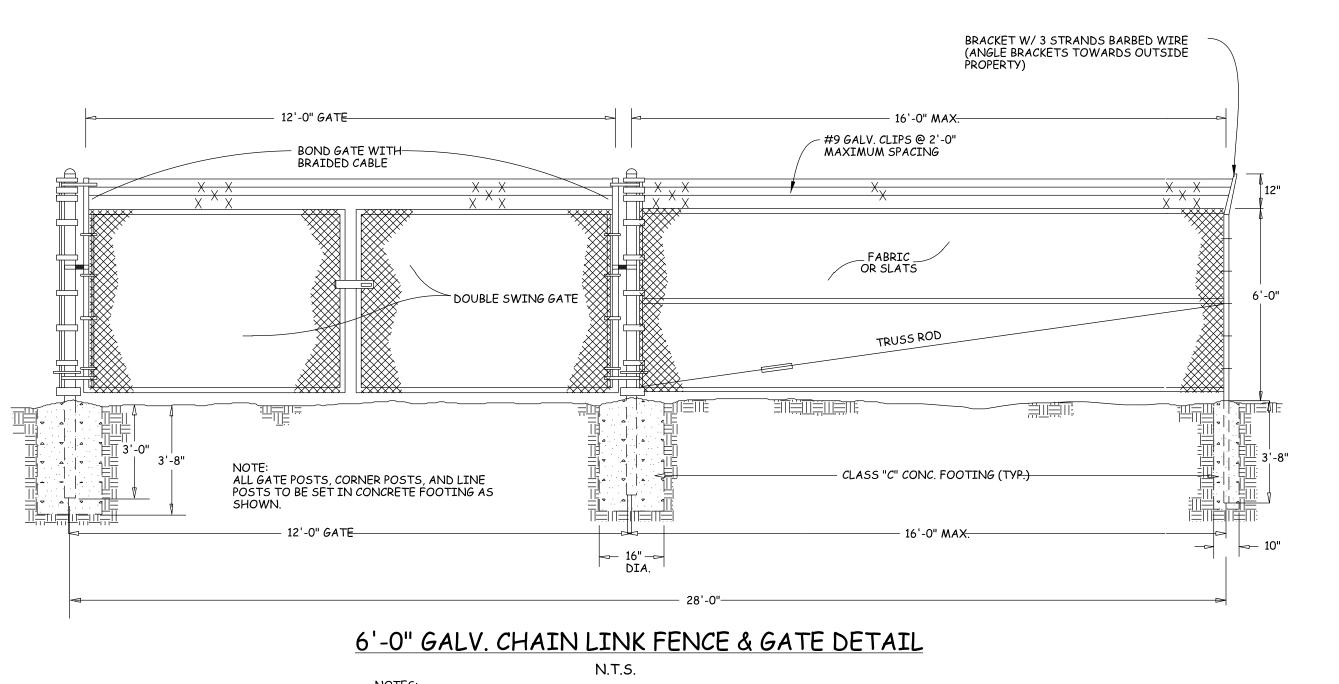


PUMP STATION DETAILS

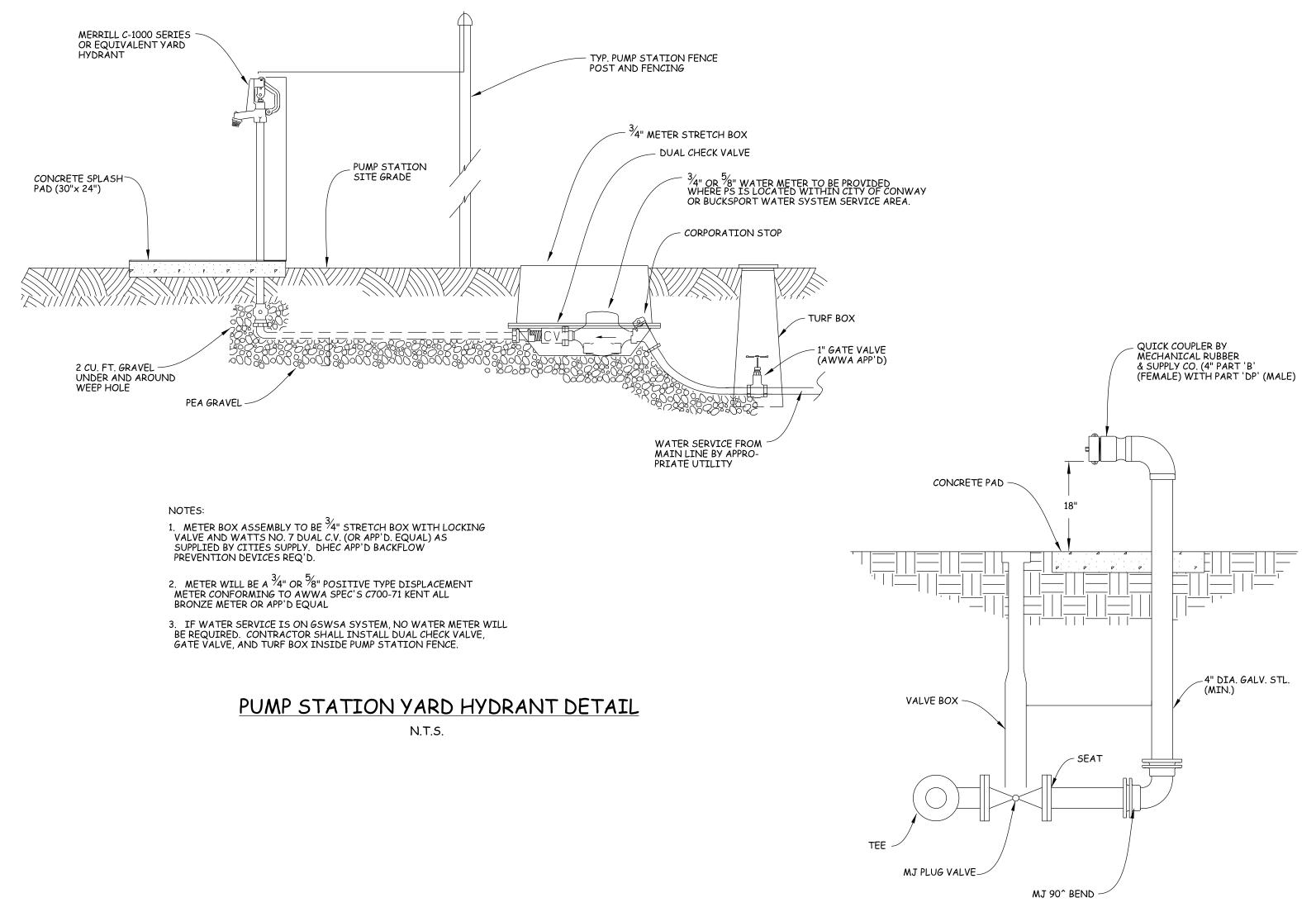
DRT DRT STATE

No. 2I255 SC DHEC CONSTR. PERMIT # ISSUED: SCALE: NTS FILENAME: PS-DETS.DGN DESIGNED CHECKED JASON POSTON

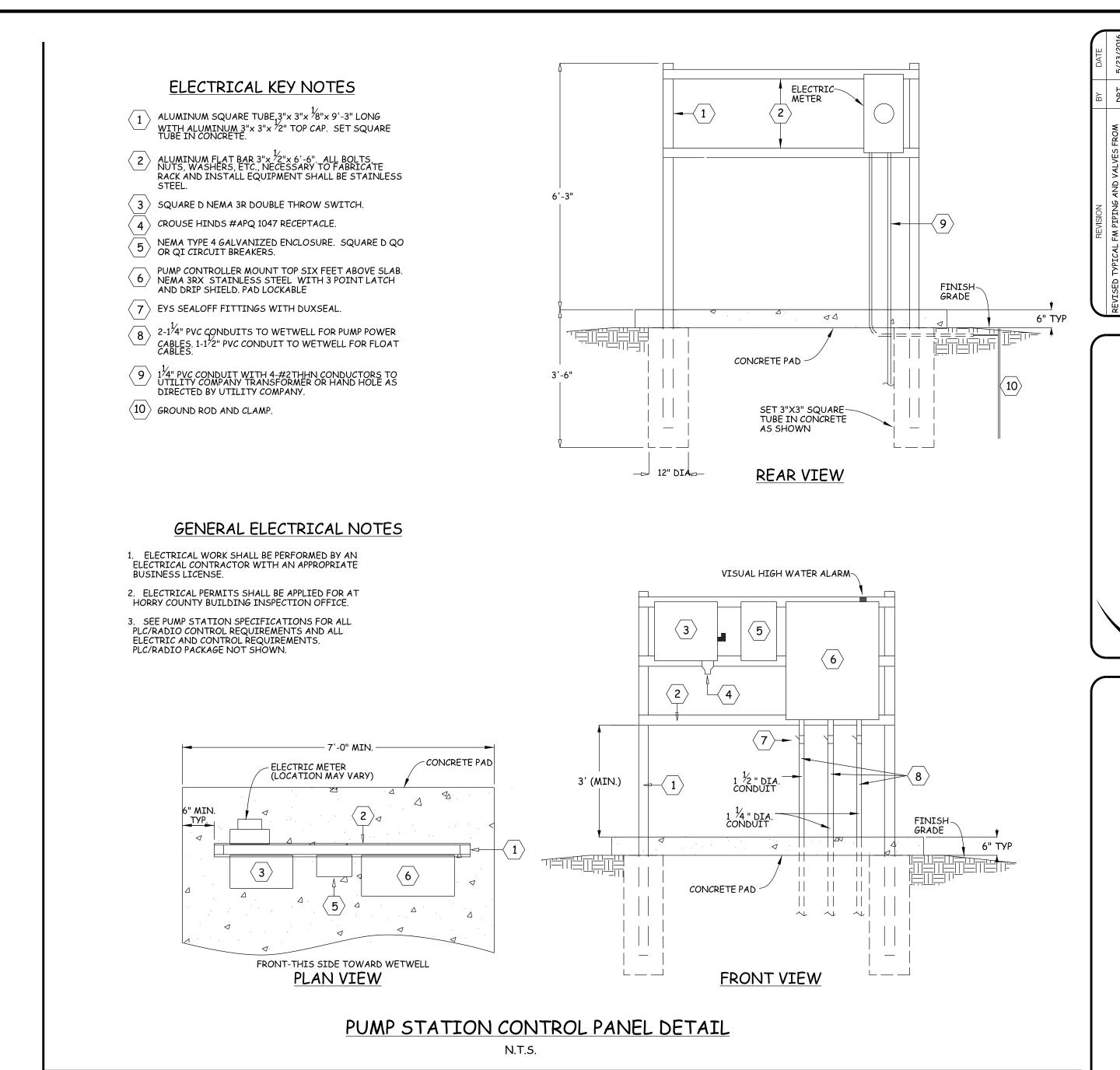
APPROVED BY CHRISTINA S. EVERETT PE #21255 SHEET OF

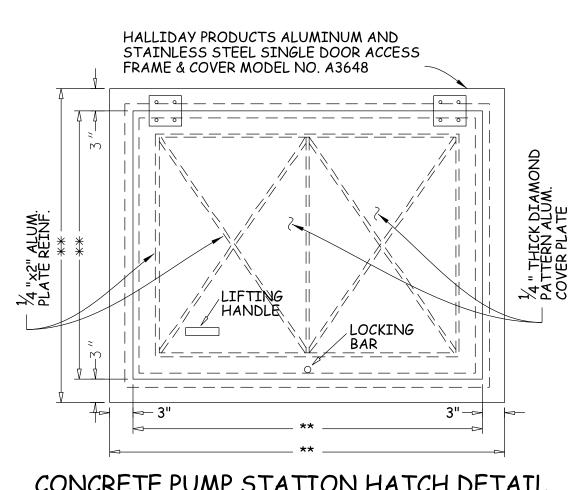


- NOTES:
  1. SEE STANDARD SPECIAL PROVISIONS AND STANDARDS FOR SPECIAL REQUIREMENTS.
- 2. FINAL SITE FENCING DIMENSIONS TO BE DETERMINED BY GSWSA.
- 3. SIGN WITH STATION NUMBER AND EMERGENCY PHONE NUMBER WILL BE PROVIDED BY OPERATIONS AFTER FINAL ACCEPTANCE.
- 4. WIND SCREEN FABRIC AND/OR SLATS MAY BE REQUIRED TO MEET HORRY COUNTY'S ZONING ORDINANCE. WIND SCREEN AND SLATS ARE TO BE GREEN OR BLACK IN COLOR.



EMERGENCY CONNECTION DETAIL
N.T.S.



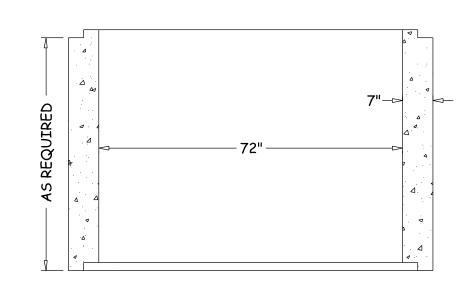


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CONCRETE PUMP STATION HATCH DETAIL

(\*\*SIZE AND LOCATION WITHIN TOP SLAB OF PUMP STATION TO BE PER MANUFACTURER'S RECOMMENDATION)

N.T.S.



NOTES:

- ALL STANDARD SEWER PUMP STATION WETWELLTO MEET OR EXCEED THE REQUIREMENTS OF ASTM C478.
- 2. BUTYL RUBBER SEALANT IS RECOMMENDED FOR SEALING JOINTS. O-RING GASKETS MAY BE USED.

CONCRETE PUMP STATION RISER SECTION
N.T.S.

SC DHEC CONSTR. PERMIT #
ISSUED:
DATE:
SCALE: NTS
FILENAME: PS-DETS.DGN

DESIGNED
BY

CHECKED
BY

JASON POSTON

APPROVED BY

CHRISTINA S. EVERETT PE #21255

SHEET OF

PUMP STATION DETAILS