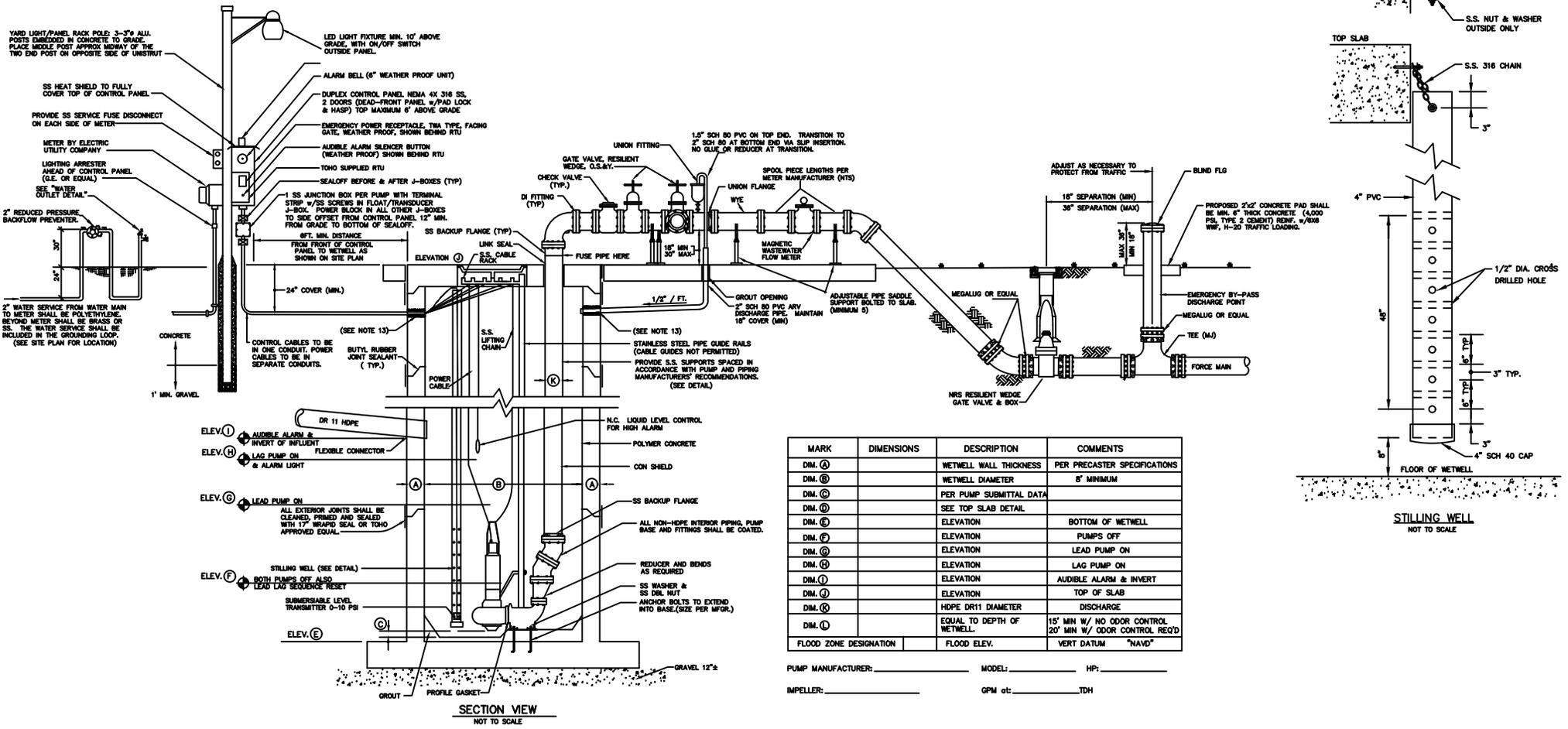
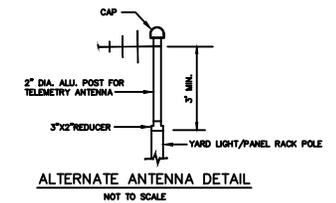
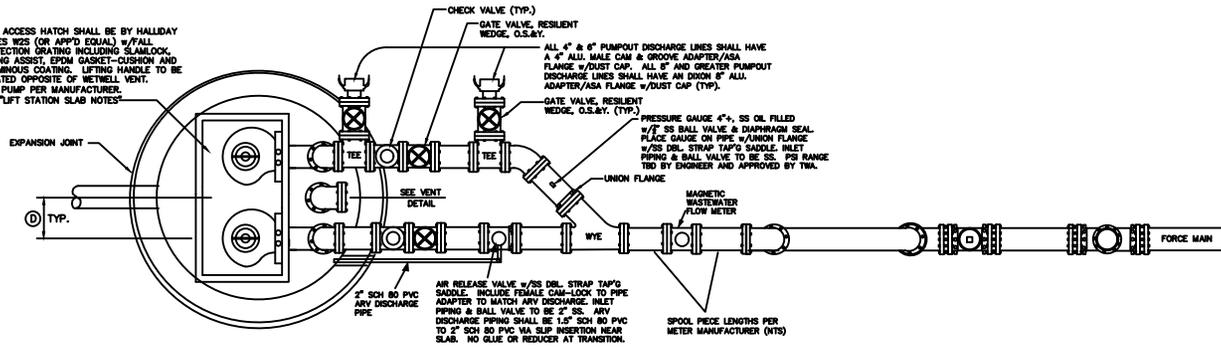
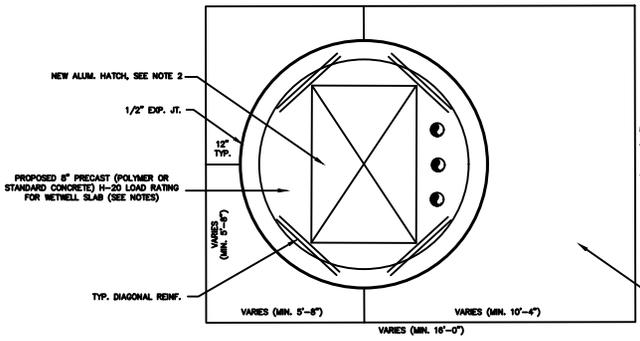


- NOTES:**
1. ALL ITEMS NOT SPECIFIED ON THESE SHEETS SHALL MEET TOHO STANDARDS AND SPECIFICATIONS.
  2. ALL LIFT STATION NET WELLS SHALL BE PRECAST POLYMER CONCRETE.
  3. NO LIFTING HOLES ARE PERMITTED THRU WALLS OR TOP SLAB.
  4. ALL ABOVE GROUND FORCE MAIN PIPING SHALL BE FLANGED DUCTILE IRON.
  5. ALL TAPS SHALL BE STAINLESS STEEL TAPPING SADDLES.
  6. ALL CONDUIT SHALL BE RIGID ALUMINUM EXCEPT FOR THE CONDUIT FROM THE TRANSFORMER TO THE 2ND DISCONNECT AFTER THE METER.
  7. FINISHED GRADE INSIDE THE FENCED AREA SHALL BE A MINIMUM OF 12" ABOVE THE 100 YEAR FLOOD AND 6" ABOVE THE GROUND ELEVATION AT ANY FENCE POST.
  8. ALL PENETRATIONS, INTERIOR OPENINGS, CHIPS, LIFT HOLES, ETC. SHALL BE SEALED WITH POLYMER GROUT AS SPECIFIED BY THE MANUFACTURER.
  9. SEE PANEL DRAWING(S) FOR TELEMETRY SYSTEM DETAILS.
  10. TELEMETRY SHALL BE PAID FOR BY THE DEVELOPER AND FURNISHED, INSTALLED, AND PROGRAMMED BY TOHO.
  11. ALL ENCLOSURE PENETRATIONS SHALL BE MADE ON THE BOTTOM OF THE ENCLOSURE, TOP AND SIDE PENETRATIONS ARE NOT PERMITTED EXCEPT ON TYS. USE MYERS HUBS EXCEPT BETWEEN METER AND DISCONNECT AND TYS.
  12. ALL BOXES AND ENCLOSURES SHALL BE NEMA 4X 316 SS RACK TO UTILIZE SS STRUT CHANNEL, SS HARDWARE, AND VINYL DEDCAPS.



MARK	DIMENSIONS	DESCRIPTION	COMMENTS
DIM. (A)		WETWELL WALL THICKNESS	PER PRECASTER SPECIFICATIONS
DIM. (B)		WETWELL DIAMETER	8' MINIMUM
DIM. (C)			PER PUMP SUBMITTAL DATA
DIM. (D)		SEE TOP SLAB DETAIL.	
DIM. (E)		ELEVATION	BOTTOM OF WETWELL
DIM. (F)		ELEVATION	PUMPS OFF
DIM. (G)		ELEVATION	LEAD PUMP ON
DIM. (H)		ELEVATION	LAG PUMP ON
DIM. (I)		ELEVATION	AUDIBLE ALARM & INVERT
DIM. (J)		ELEVATION	TOP OF SLAB
DIM. (K)		HDPE DR11 DIAMETER	DISCHARGE
DIM. (L)		EQUAL TO DEPTH OF WETWELL.	15' MIN W/ NO ODOR CONTROL REQ'D 20' MIN W/ ODOR CONTROL REQ'D
FLOOD ZONE DESIGNATION		FLOOD ELEV.	VERT DATUM "NAVD"

PUMP MANUFACTURER: \_\_\_\_\_ MODEL: \_\_\_\_\_ HP: \_\_\_\_\_  
 IMPELLER: \_\_\_\_\_ GPM at \_\_\_\_\_ TDH

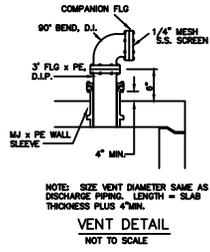


TYPICAL LIFT STATION SLAB DETAIL

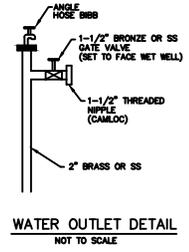
NOT TO SCALE

- LIFT STATION SLAB NOTES:
- 1) SAWCUT 2" DEEP JOINT AS SHOWN, SAW CUTTING TO BE PERFORMED IMMEDIATELY AFTER PLACEMENT, AS SOON AS THE CONCRETE IS FIRM ENOUGH TO SUPPORT THE SAW AND TO NOT BE TORN OR DAMAGED BY THE BLADE.
  - 2) ALUMINUM ACCESS HATCH SHALL BE BY HALLIDAY MODEL SERIES WGS WITH FALL PROTECTION GRATING OR TWA APPROVED EQUAL, APPLY A BUTYRUS COATING INSIDE. ALUMINUM IS IN CONTACT WITH CONCRETE.
  - 3) PROVIDE SARCUTS EVERY 12" IN LENGTH AND WIDTH OF ACCESS DRIVEWAY AND LIFT STATION SLAB AND AS SHOWN.
  - 4) SEE CIVIL DRAWINGS FOR SLAB LOCATION AND DIMENSIONS.
  - 5) TOP SLAB SHALL BE POLYMER OR STANDARD CONCRETE, ALL OTHER WELL CONCRETE SECTIONS SHALL BE POLYMER ONLY.

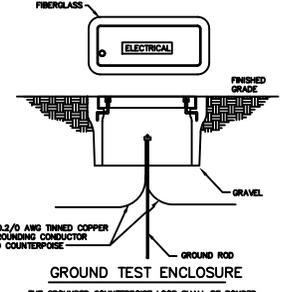
PROPOSED LIFT STATION SLAB SHALL BE MIN. 6" THICK CONCRETE (4,000 PSI, TYPE 2 CEMENT) REINF. #6/8 W/8" R-20 TRAFFIC LOADING. STABILIZE SUBGRADE TO MIN. 12"



VENT DETAIL  
NOT TO SCALE



WATER OUTLET DETAIL  
NOT TO SCALE

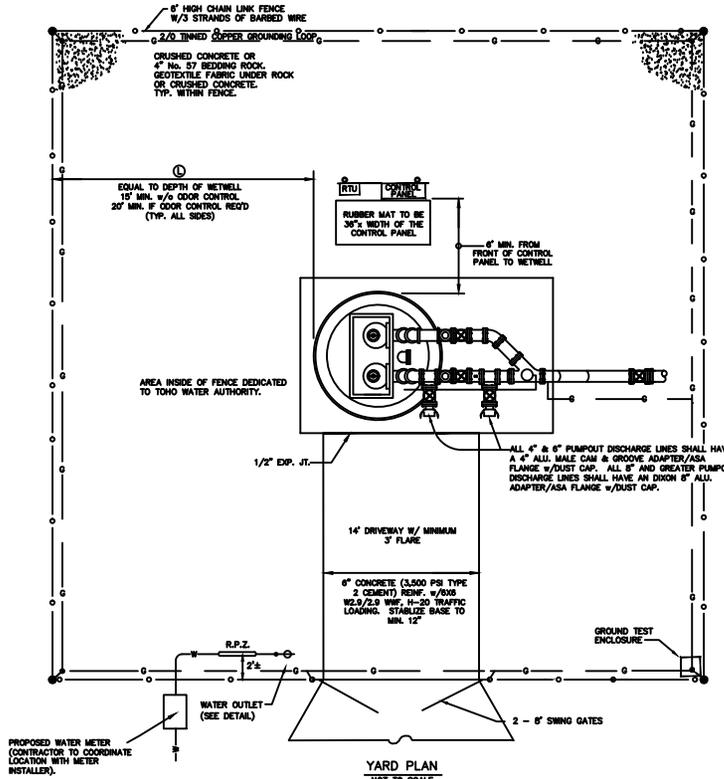


GROUND TEST ENCLOSURE

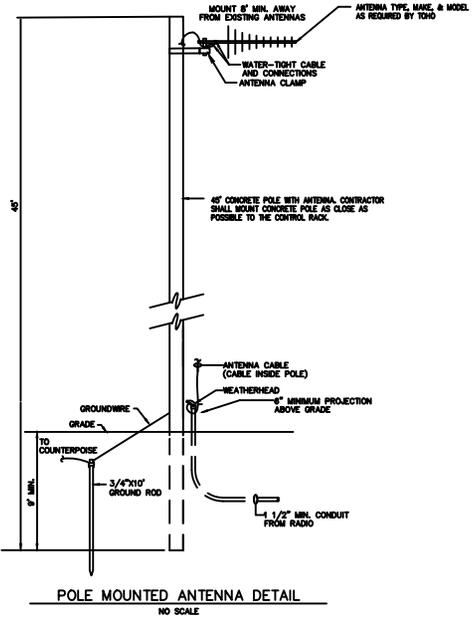
THE GROUNDED COUNTERPOISE LOOP SHALL BE BONDED BY CABLEWEL TO GROUND RODS AND GROUND WIRE PITHEADS.

THE FOLLOWING SHALL BE MECHANICALLY BONDED TO THE COUNTERPOISE LOOP:

- |   |                                |
|---|--------------------------------|
| 1. CORNER POSTS   | 8. MAIN DISCONNECT SWITCH      |
| 2. GATE POSTS, GATE AND FENCE   | 9. UTILITY COMPANY TRANSFORMER |
| 3. WATER SERVICE  | 10. OPERATOR                   |
| 4. CONTROL PANEL  | 11. ODOOR CONTROL              |
| 5. NET WELL HATCH AND HANDRAIL  | 12. SERVICE DISCONNECT SWITCH  |
| 6. DISCHARGE PIPING   | 13. TELEMETRY PANEL            |
| 7. ALL CONDUIT ENTRIES (METAL) INTO CONTROL PANEL BY MEANS OF GROUNDING BUSHINGS. | 14. TELEMETRY MAST             |



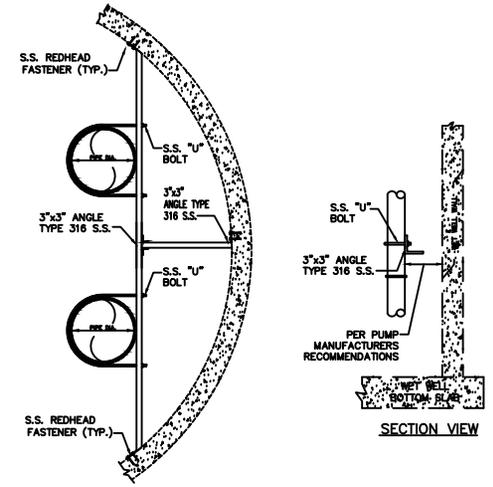
YARD PLAN  
NOT TO SCALE



POLE MOUNTED ANTENNA DETAIL  
NO SCALE

NOTES:

1. YARD PIPING PLAN IS A GENERIC PLAN SHOWING REQUIRED PIPING AND MINIMUM CLEARANCES, SEPARATIONS, AND SITE SIZING REQUIREMENTS.
2. A SITE SPECIFIC YARD PLAN IS REQUIRED.
3. A SITE SPECIFIC PLAN IS REQUIRED THAT IDENTIFIES THE LOCATION OF THE DRIVEWAY, ACCESS ROADS, AND ALL OTHER RELEVANT SITE FEATURES. LAYOUT MUST INCLUDE SITE GRADING TO SHOW DRAINAGE AWAY FROM THE NET WELL AND SLAB AND THE SITE IN GENERAL.
4. A LAYOUT DEVIATING FROM THIS DETAIL SHALL BE DRAWN TO SCALE AND SHOW WETWELL PUMPS AND INFLUENT AND EFFLUENT PIPING TO ENSURE SUFFICIENT SPACE WITHIN THE WETWELL TO ACCOMMODATE ALL MECHANICAL EQUIPMENT AND PIPING.
5. ELECTRICAL TRANSFORMERS MUST BE LOCATED OUTSIDE OF THE FENCED AREA.
6. PROPOSED 1/4 DRIVEWAY W/ MINIMUM 3' FLARE MUST EXTEND TO A PAVED PUBLIC OR PRIVATE ROADWAY.
7. LIFT STATION SITES LOCATED ON ROADS WITH POSTED SPEED LIMITS OF 25MPH OR GREATER REQUIRE DRIVE-THRU OR TURNAROUND ACCESS.
8. ENGINEER SHALL PROVIDE A TRANSPORT AUTO-TURN OR AUTODESK VEHICLE TRACKING ANALYSIS FOR A COMBINATION SEWER CLEANING VACTOR TRUCK.

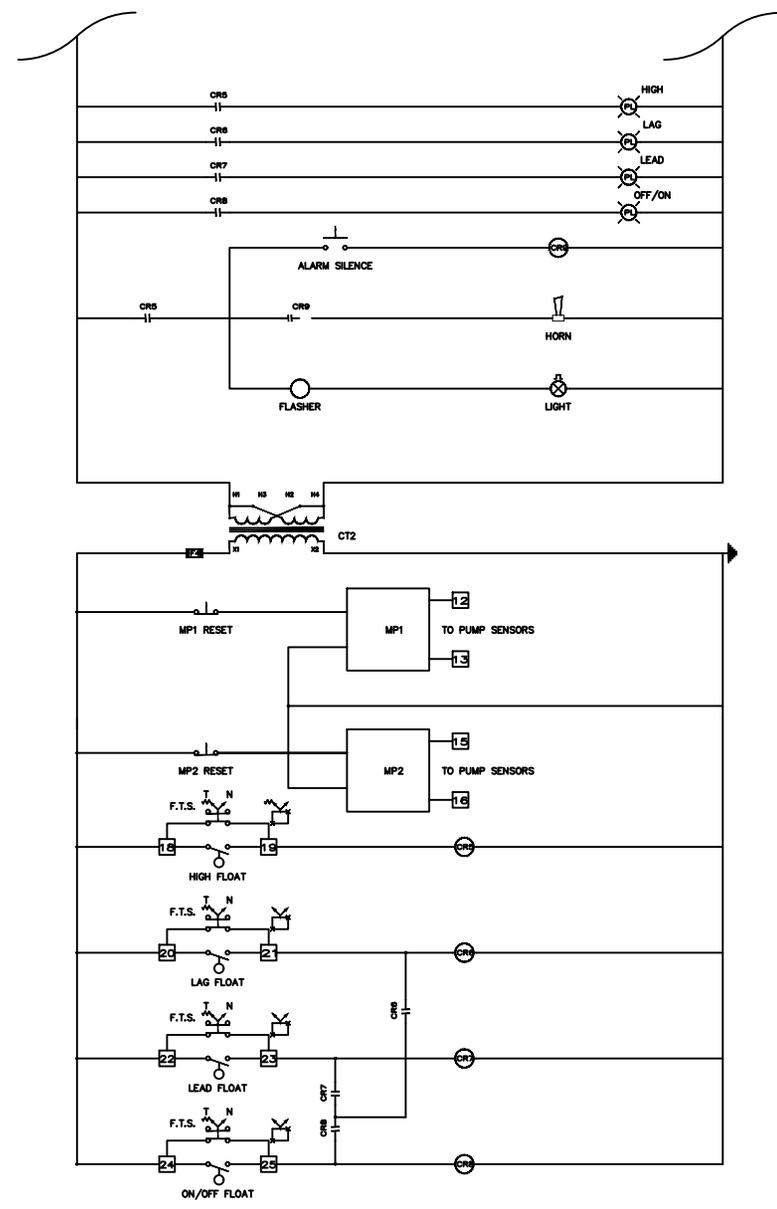
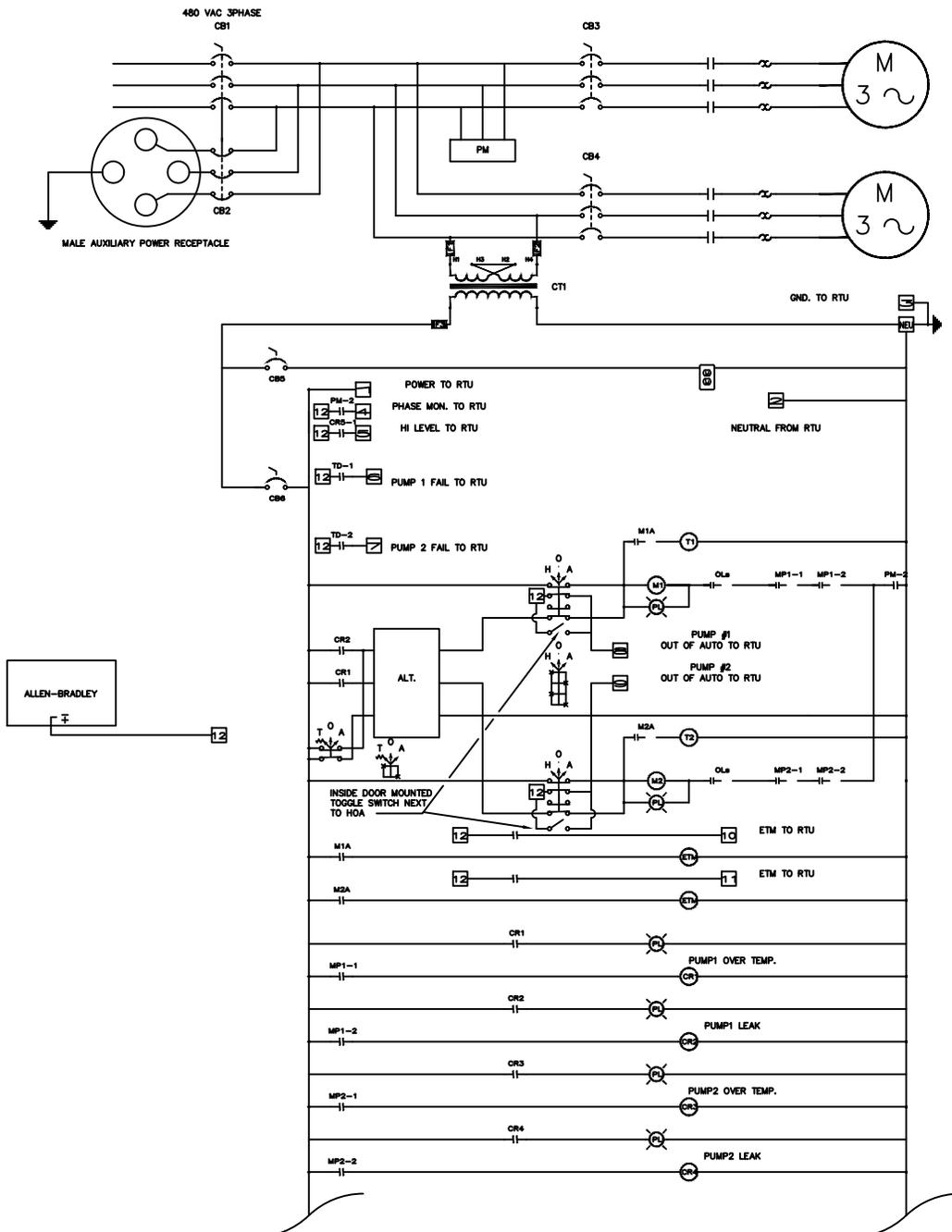


TOP VIEW

NOTES:

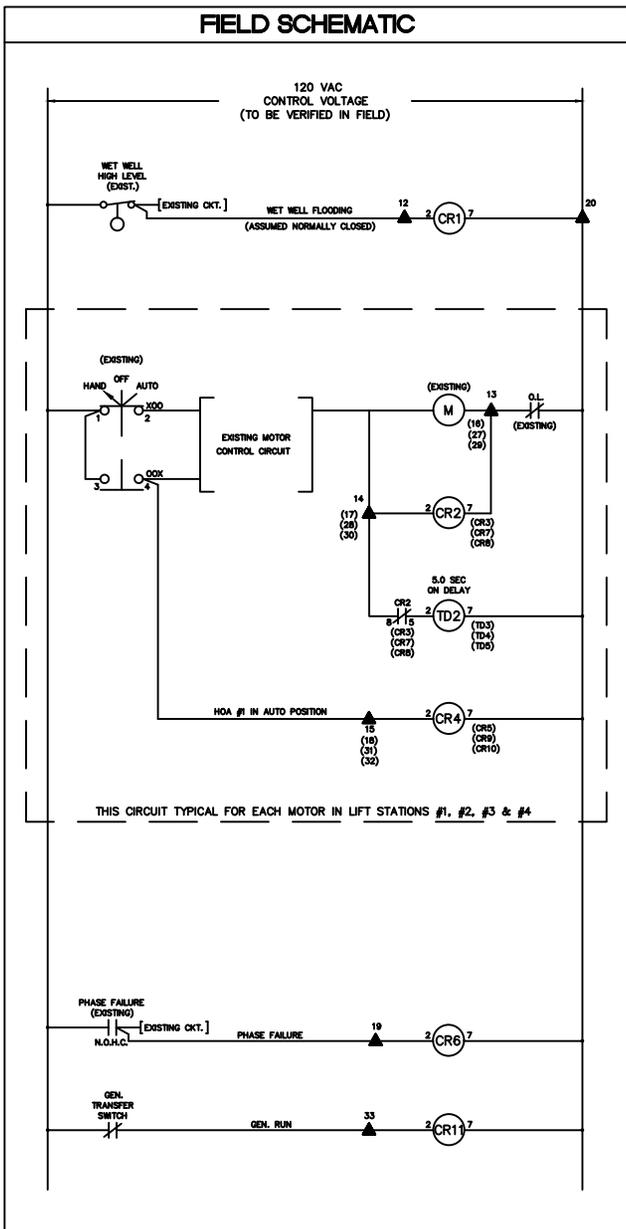
1. ALL COMPONENTS AND BRACKET ASSEMBLY SHALL BE GRADE 316 STAINLESS STEEL.
2. BRACKETS SHALL BE SPACED AS INDICATED IN THE CONSTRUCTION DRAWING OR AT THE DIRECTION OF TWA.
3. PIPE SIZES AND MATERIALS SHALL BE AS INDICATED IN THE CONSTRUCTION DRAWINGS.
4. A MINIMUM OF 2 BRACKETS REQUIRED. MAX 10' SPACING.
5. WELD ALL CONNECTIONS EXCEPT U-BOLTS.

PIPE FASTENING BRACKET  
NOT TO SCALE

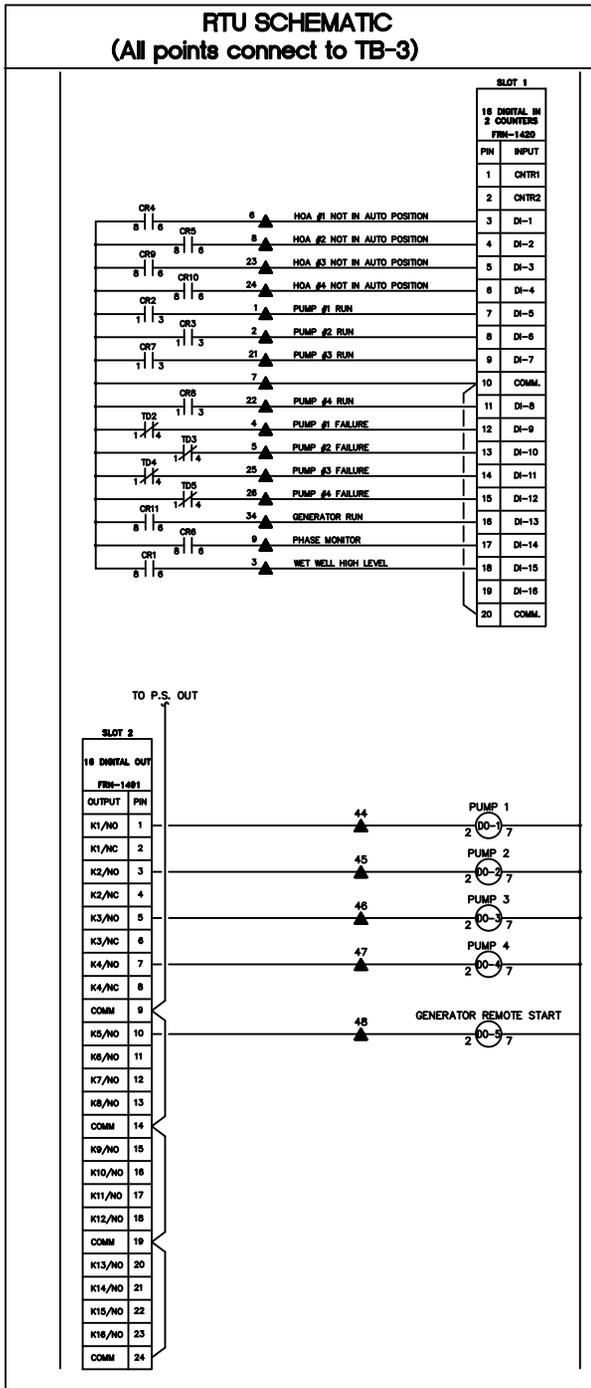


TYPICAL LIFT STATION CONTROL PANEL SCHEMATIC TOHO-31.2

### FIELD SCHEMATIC

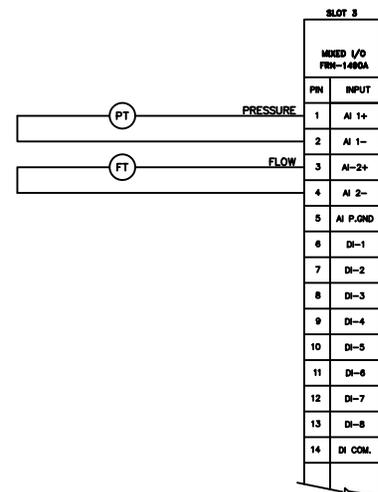


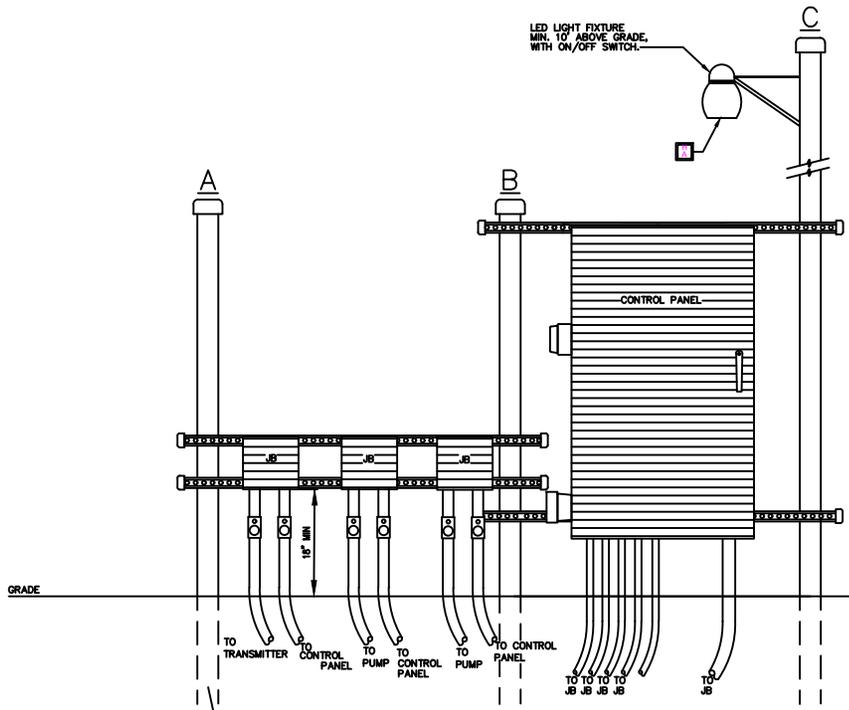
### RTU SCHEMATIC (All points connect to TB-3)



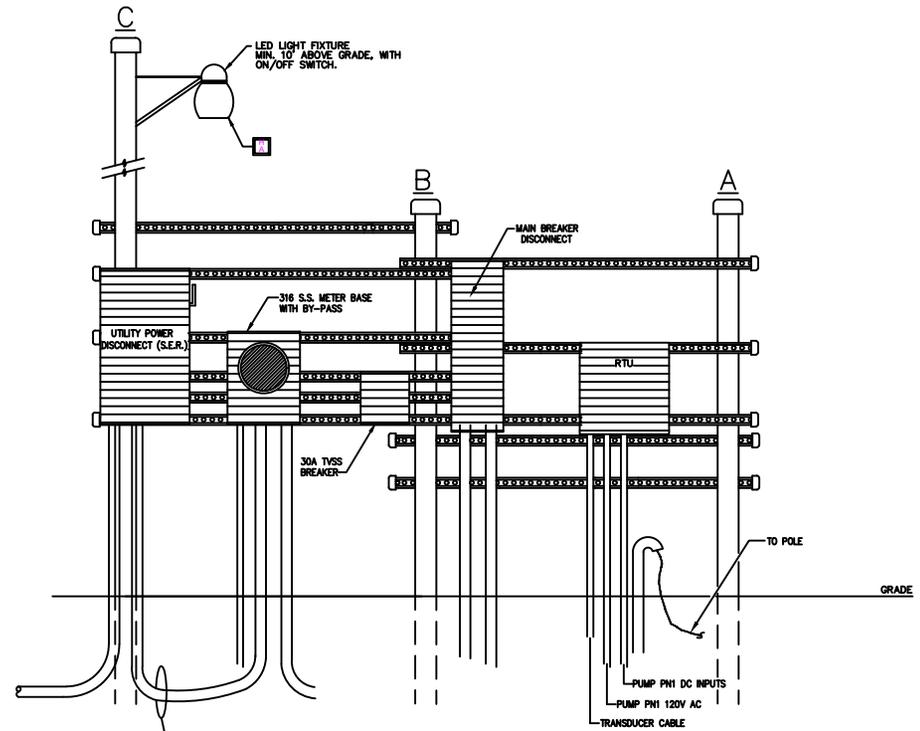
#### INSTALLATION NOTES:

- INSTALLER TO VERIFY CONTROL VOLTAGE IN ORDER TO DETERMINE RELAY COIL VOLTAGES.
  - INSTALLER TO VERIFY DATA SHEETS AS TO WHAT OPTIONS ARE TO BE INSTALLED AT EACH LIFT STATION
  - INSTALLER TO VERIFY THAT ALL SIGNALS ARE NORMALLY CLOSED, CONTACT OPENS ON SIGNAL. (i.e. SOME SIGNALS MAY BE GENERATED AS NORMALLY OPEN FROM FIELD LIMIT SWITCH.)
  - TYPICAL RELAY PIN OUT IS AS FOLLOWS:
- 
- ALL CONTROL RELAYS TO BE P & B #KRP11AN OR EQUAL.
  - ALL TIME DELAY RELAYS TO BE DIGI SWITCH TYPE TDM OR EQUAL.
  - ▲ - TB2 LOCATED IN JUNCTION BOX. TO BE PRE-WIRED IN SHOP.





**FRONT FACING WELL  
RACK MOUNTED  
EQUIPMENT LAYOUT**  
NO SCALE



**BACK  
RACK MOUNTED  
EQUIPMENT LAYOUT**  
NO SCALE