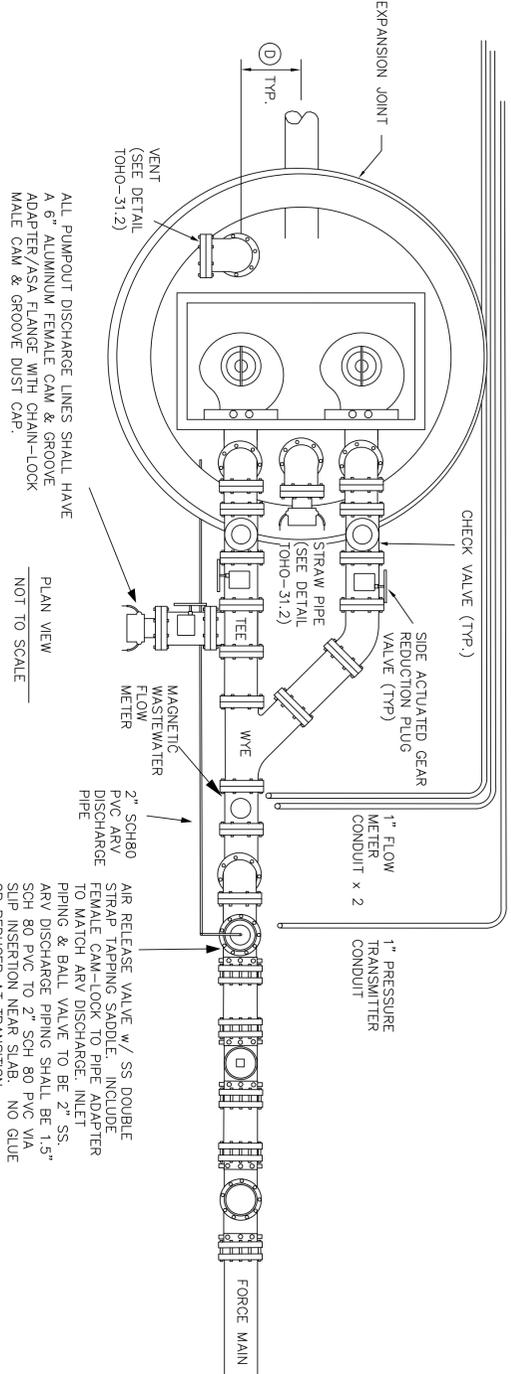


GENERAL NOTES:

1. ALL ITEMS NOT SPECIFIED ON THESE DETAIL SHEETS SHALL MEET CURRENT TOHO STANDARDS AND SPECIFICATIONS.
2. ALL LIFT STATION WET 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. SPOOL PIECES ABOVE GRADE SHALL BE FLANGED DUCTILE IRON.
- 5.1. PROVIDE AN 18" SPOOL PIECE UPSTREAM OF EACH CHECK VALVE.
- 5.2. THE NUMBER AND LENGTH OF SPOOL PIECES DOWNSTREAM OF THE CHECK VALVE SHALL BE KEPT TO A MINIMUM AND USED ONLY AS NECESSARY TO ACHIEVE PROPER ALIGNMENT OF THE ASSEMBLY.
6. ALL CONDUIT SHALL BE RIGID ALUMINUM EXCEPT FOR 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 OF THE HIGHEST FENCE POST.
8. ALL PENETRATIONS, INTERIOR OPENINGS, CHIPS, LIFT HOLES, ETC. SHALL BE SEALED WITH POLYMER GROUT AS SPECIFIED BY THE MANHOLE PRECASTER.
9. SEE PANEL DRAWING(S) FOR TELEMETRY SYSTEM DETAILS.
10. TELEMETRY SHALL BE PAID FOR BY THE DEVELOPER AND INSTALLED, AND PROGRAMMED BY TOHO.
11. TELEMETRY ANTENNA WILL BE PROVIDED AND INSTALLED BY TOHO.
12. ALL ENCLOSURE PENETRATIONS SHALL BE MADE ON THE BOTTOM OF THE ENCLOSURE TOP AND SIDE PENETRATIONS ARE NOT PERMITTED EXCEPT ON TVSS. USE WERS HUBS EXCEPT BETWEEN METER AND DISCONNECT AND TVSS.
13. ALL BOXES AND ENCLOSURES SHALL BE NEMA 4X 316 STAINLESS STEEL.
- 13.1. METER CAN SHALL BE PER UTILITY COMPANY.
14. RACK TO UTILIZE 316 STAINLESS STEEL STRUT CHANNEL AND HARDWARE WITH VINYL ENDCAPS.
15. ALL BOLTS AND WASHERS INSIDE THE WET WELL SHALL BE 316 SS.
16. ALL NUTS INSIDE THE WET WELL SHALL BE 316 SS LOCK NUTS.
17. ABOVE GROUND SHUT-OFF VALVES SHALL BE FLANGE END SIDE ACTUATED GEAR REDUCTION PLUG VALVES.
18. PRESSURE TRANSMITTER AND FLOW TRANSMITTER CABLES SHALL ENTER IN-GROUND CONDUIT VIA WEATHERHEAD SERVICE CAP.
19. IN-GROUND VALVES SHALL BE MECHANICAL JOINT END PLUG VALVES WITH 2" OPERATING NUT.



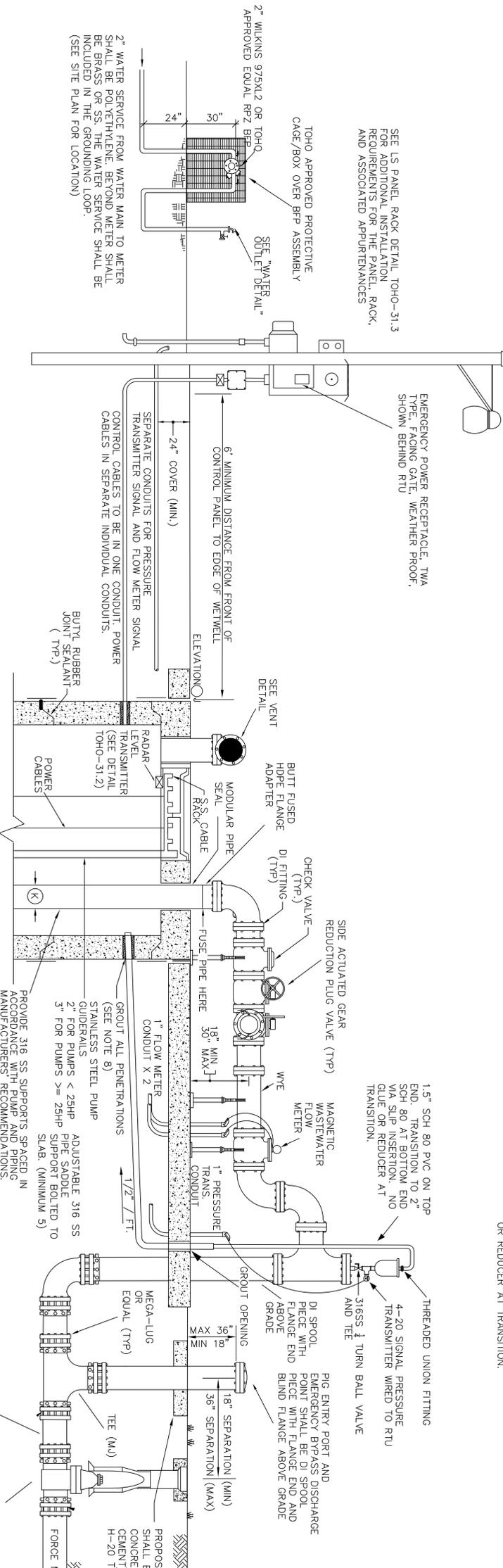
ALL PUMP/OUT DISCHARGE LINES SHALL HAVE A 6" ALUMINUM FEMALE CAM & GROOVE ADAPTER/ASA FLANGE WITH CHAIN-LOCK MALE CAM & GROOVE DUST CAP.

1.5" SCH 80 PVC ON TOP END. TRANSITION TO 2" SCH 80 AT BOTTOM END VIA SLIP INSERTION, NO GLUE OR REDUCER AT TRANSITION.

4-20 SIGNAL PRESSURE TRANSMITTER WIRED TO RTU AND TEE

PIG ENTRY PORT AND EMERGENCY BYPASS DISCHARGE POINT SHALL BE DI SPOOL FLANGE END BLIND FLANGE ABOVE GRADE

PROPOSED 2'x2' CONCRETE PAD SHALL BE MIN. 6" THICK CONCRETE (4,000 PSI, TYPE 2 CEMENT) REINF. w/6x6 WWF. H-20 TRAFFIC LOADING.



2" WATER SERVICE FROM WATER MAIN TO METER SHALL BE POLYETHYLENE. BEYOND METER SHALL BE BRASS OR SS. THE WATER SERVICE SHALL BE INCLUDED IN THE GROUNDING LOOP. (SEE SITE PLAN FOR LOCATION)

EMERGENCY POWER RECEPTACLE, TWA TYPE, FACING GATE, WEATHER PROOF, SHOWN BEHIND RTU

6" MINIMUM DISTANCE FROM FRONT OF CONTROL PANEL TO EDGE OF WETWELL ELEVATION

24" COVER (MIN.)

SEPARATE CONDUITS FOR PRESSURE TRANSMITTER SIGNAL AND FLOW METER SIGNAL

CONTROL CABLES TO BE IN ONE CONDUIT. POWER CABLES IN SEPARATE INDIVIDUAL CONDUITS.

BUTYL RUBBER JOINT SEALANT (TYP.)

SEE VENT DETAIL

MODULAR PIPE SEAL RACK

SS CABLE

HOPPE FLANGE ADAPTER

CHECK VALVE (TYP.)

DI FITTING (TYP.)

WVE

MAGNETIC WASTEWATER FLOW METER

1" PRESSURE TRANS. CONDUIT

1" FLOW METER CONDUIT X 2

1.5" FLOW METER CONDUIT X 2

1.2" / FT.

PROVIDE 316 SS SUPPORTS SPACED IN ACCORDANCE WITH PIPING MANUFACTURERS' RECOMMENDATIONS (SEE TOHO-31.1 FOR ADDITIONAL INFORMATION)

316SS 1/2 TURN BALL VALVE AND TEE

4-20 SIGNAL PRESSURE TRANSMITTER WIRED TO RTU

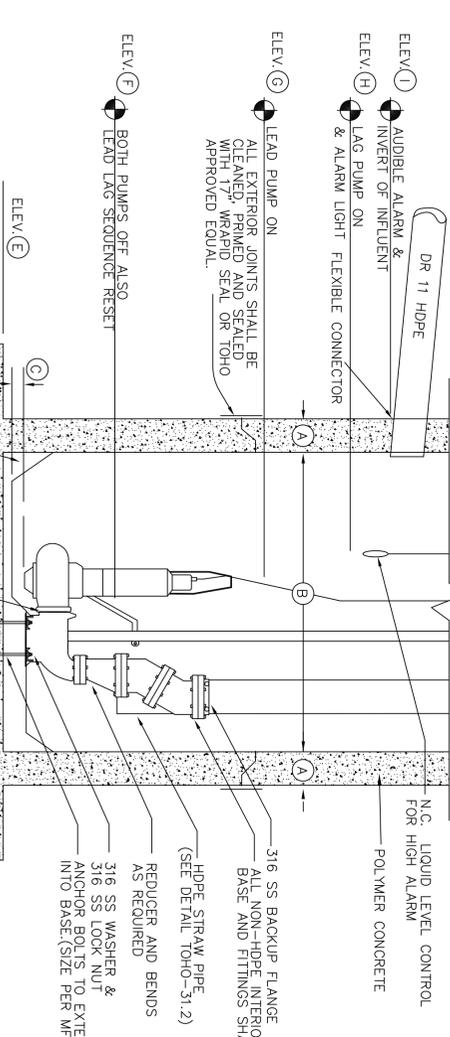
DI SPOOL PIECE WITH POINT SHALL BE DI SPOOL FLANGE END BLIND FLANGE ABOVE GRADE

18" SEPARATION (MIN)

36" SEPARATION (MAX)

MECHANICAL JOINT GATE VALVE W/ 2" OPERATING NUT (INSIDE LS YARD ONLY)

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)		DISTANCE BETWEEN CENTER OF ANY PORTION OF A PUMP INSIDE PUMP	INFLOW SHALL NOT LAND ON BOTTOM OF WETWELL
DIM. (E)		ELEVATION	PUMPS OFF
DIM. (F)		ELEVATION	LEAD PUMP ON
DIM. (G)		ELEVATION	LAG PUMP ON
DIM. (H)		ELEVATION	AUDIBLE ALARM & INVERT
DIM. (I)		ELEVATION	TOP OF SLAB
DIM. (J)		HOPPE DR11 DIAMETER EQUAL TO DEPTH OF WETWELL.	DISCHARGE
DIM. (K)		FLOOD ZONE DESIGNATION	VERT DATUM "NAVD"



N.C. LIQUID LEVEL CONTROL FOR HIGH ALARM

POLYMER CONCRETE

316 SS BACKUP FLANGE BASE AND FITTINGS SHALL BE COATED.

HOPPE STRAW PIPE (SEE DETAIL TOHO-31.2) AS REQUIRED

REDUCER AND BENDS AS REQUIRED

316 SS WASHER & ANCHOR BOLTS TO EXTEND INTO BASE (SIZE PER MFR.)

GRAVEL 12"±

THIS DETAIL IS NOT INTENDED TO ENCOMPASS ALL CONSTRUCTION DETAILS FOR LIFT STATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REFER TO ALL OF TOHO'S LS DETAILS AS WELL AS THE STANDARDS AND SPECIFICATIONS MANUAL.

EFFECTIVE DATE:	04/01/2025
BOARD APPROVED DATE:	01/22/2025
PREVIOUS VERSION:	2022
DRAWN BY:	MP
REVISED BY:	DT

# STANDARD LIFT STATION DETAIL

31.0

DRAWING NUMBER

