

KEYNOTES:

- 1 PRECAST CONCRETE COVER WITH #4 @ 9" E.W. TOP AND #5 @ 4 1/2" E.W. BOTTOM, REINFORCEMENT GRADE 60
- $\langle \overline{2} \rangle$ 30" X 48" ALUMINUM HATCH WITH UPPER GUIDE BRACKET. CHAIN HOOK CABLE HOLDER, AND POSITIVE LOCK @ 90° OPENING. SEE PLAN AT GRADE FOR COVER HINGE ORIENTATION
- ⟨3⟩ VENT PIPE SEE DETAIL 5403
- (4) PRECAST COVER CONNECTION SEE DETAIL 5403
- (5) ELECTRICAL CABLE HOLDER
- 6 RIGID PVC CONDUIT @ ELEVATION XXX.XX CORE DRILL & INSTALL WATERTIGHT SEAL AROUND CONDUIT. ROUTE UNDERGROUND. SEE ELECTRICAL SITE PLAN
- O CORE DRILL FOR ELEC CONDUIT AND SEAL WITH
- NON-SHRINK GROUT (8) PUMP GUIDE RAILS
- (9) PRECAST JOINT WITH BUTYL RUBBER JOINT SEAL (KENT, RAMNEK, OR CONSEAL) (TYPICAL)
- ON-SITÉ MATERIAL (SÉE NOTE #3 FOR COMPACTION)
- (1) PIPE SEAL GASKET SEE DETAIL 5403
- PIPE CONNECTION SEE DETAIL 5403
- (3) DIP PUMP DISCHARGE (TYP OF 2)
- GROUT CIRCLE AS RECOMMENDED BY PUMP MANUFACTURER

 (5) CONCRETE BASE SLAB CONNECTION - 5403
- (6) 12" THICK CONCRETE SLAB WITH #6 @ 12" E.W. BOTTOM AND #6 @ 6" E.W. TOP, REINFORCING GRADE 60
- PUMP CONTROL LEVEL FLOATS
- SUBMERSIBLE PUMP (2 REQUIRED) INSTALL PER MANUFACTURER. GROUT CIRCLE AS RECOMMENDED BY PUMP MANUFACTURER
- (9) FLANGED BALL CHECK VALVE (FLYGT HDL OR EQUAL) (2 REQD)
- S.S. CHAINS AND SHACKLES
- MJ GATE VALVE WITH GEAR OPERATOR, EXTENSION AND VALVE BOX TO GRADE 5403
- MJ GATE VALVE WITH GEAR OPERATOR, EXTENSION AND VALVE BOX TO GRADE (SEE DETAIL 5403 (2 REQ'D)
- MJ REDUCER
- POLY WRAP DIP
- CLASS 5 MATERIAL SEE GENERAL NOTE NO. 2
- MnDOT 3733 TYPE 5 GEOTEXTILE FABRIC
- UNEXCAVATED SOILS PUMP CONTROLS AND POWER CABLES, S.S. FLOAT CABLES AND PRESSURE TRANSDUCER WITH 2 FLOAT BACKUP
- FIBERGLASS FALL PROTECTION GRATING
- BUTYL JOINT WRAP

GENERAL NOTES:

- 1. AT LEAST ONE SOIL BORING AND ACCOMPANYING GEOTECHNICAL REPORT IS REQUIRED AT THE LIFT STATION SITE
- 2. DESIGN ALLOWABLE NET SOIL BEARING PRESSURE: 2500 PSF (ASSUMED)
- 3. COMPACT BACKFILL TO 100% STANDARD PROCTOR ABOVE AND BELOW PIPES
- 4. PARTS OF SECTION VIEW OF DRAWING ARE ROTATED FOR CLARITY
- 5. SEE PLAN VIEW AND SITE PLAN FOR ORIENTATION OF PIPES
- 6. CONTRACTOR TO VERIFY EXISTING CONDITIONS
- 7. PAINT ALL INTERIOR MANHOLE CONCRETE AND PIPING WITH (2) COATS OF EPOXY PAINT
- 8. COMPACT BACKFILL TO 100% OF STANDARD PROCTOR DRY DENSITY FOR INSTALLATION OF THE LIFT STATION.
- 9. BED AND BACKFILL PIPE TRENCHES TO 1 FOOT ABOVE FORCEMAIN AND ALL OTHER NEW SANITARY LINES WITH GRANULAR MATERIAL. SEE DETAIL 5403
- INSTALL CHECK VALVES IN A LOCATION THAT IS EASILY ACCESSIBLE FOR MAINTENANCE.