

TYPICAL DRAWINGS TO BE USED AS REFERENCE ONLY.

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EACH PROJECT TO BE INDIVIDUALLY DESIGNED

## NOTES:

- 1. MINIMUM 5' CLEARANCE REQUIRED AROUND ALL EQUIPMENT.
- 2. FENCE TO BE LOCATED 9" FROM EDGE OF PAVEMENT.
- 3. FENCE TO BE MINIMUM 8' TALL AND SHALL BE PER WCID 17 STANDARD DETAIL OR A CMU
- 4. WHERE PIPE SLOPE EXCEEDS 10%, CONCRETE RETARDS TO BE INSTALLED PER WCID 17 STANDARD DETAIL.
- 5. PIPE BEDDING TO BE %" F GRAVEL UNLESS SPECIFIED OTHERWISE.
- 6. FORCEMAIN AND WATER LINES TO BE PLACED AT A MAXIMUM DEPTH OF 4 FEET.
- 7. ALL VALVES, MANHOLES, LIDS, ETC. IN PAVEMENT AREA SHALL BE ADJUSTED TO FINISHED
- 8. WET-WELL AND MANHOLES SHALL BE IN ACCORDANCE WITH NOTES ON "TYPICAL WET-WELL AND VALVE-VAULT PLAN AND SECTION" SHEET.
- 9. ALL ISOLATION VALVES SHALL BE RESILENT WEDGE GATE VALVES.
- 10. ALL CHECK VALVES TO BE LEVER AND WEIGHT SWING CHECK VALVES WITH EXTERNAL ARM.
  11. ALL RESTRAINED FLEXIBLE JOINTS SHALL USE MJ SSB DUCTILE IRON CLASS 350 FITTINGS WITH UNIFLANGE 1400 SERIES RESTRAINTS OR APPROVED EQUAL. ALL UNRESTRAINED FLEXIBLE JOINTS SHALL USE SMITH BLAIR TYPE 44I OR APPROVED EQUAL.
- 12. PULL BOXES ARE TO BE MOUNTED ON TOP OF THE WET-WELL OPPOSITE THE VALVE VAULT.
- 13. A HINGED PROTECTIVE GRATING PANEL SHALL BE INSTALLED BENEATH THE WET-WELL AND VALVE-VAULT DOOR OPENING.
- 14. AN ANITFREEZE AND BFD HOSE BIB SHALL BE INSTALLED INSIDE THE FENCED AREA.
- 15. THE WATERLINE SERVING THE LIFT STATION SHALL HAVE AN RPZ ABOVE GROUND IN AN INSULATED ENCLOSURE (HOT BOX OR EQUAL).
- 16. NO 90° BENDS SHALL BE INSTALLED ON THE FORCE MAIN.
- 17. THERE SHALL NOT BE ANY TRANSFORMER, GENERATOR PAD, CONTROL PAD, OR ANY OTHER STRUCTURE INSTALLED WITHIN 5-FEET OF THE FORCE MAIN.
- 18. SUBSURFACE DRAINAGE ENTERING THE WET-WELL THROUGH PIPE TRENCHES SHALL BE ADDRESSED. CONCRETE RETARDS PLACED ON THE PIPE OR A FRENCH DRAIN SYSTEM MAY BE
- 19. ELECTRICAL TRANSFORMER PADS ARE TO BE 8-FOOT BY 8-FOOT (AUSTIN ENERGY STD.) W/METER PAD, AND SHALL BE PLACED OUTSIDE OF THE FENCED AREA.
- 20. ELECTRICAL GENERATOR SHALL BE INSTALLED WITHIN 15-FEET OF THE ACCESS DRIVE.
- 21. POSITIVE DRAINAGE AROUND THE WET-WELL SHALL BE MAINTAINED. THE SLAB ELEVATIONS OF THE WET-WELL AND VALVE-VAULT SHALL BE 6-INCHES ABOVE THE SURROUNDING GRADE. THE TOP ELEVATION OF THE WET-WELL AND VALVE-VAULT SHALL BE THE SAME WHENEVER POSSIBLE. A 2-PERCENT CROSS SLOPE SHALL BE USED ON THE CONCRETE SLAB.
- 22. PRIOR TO POURING CONCRETE AROUND THE WET-WELL AND VALVE-VAULT, THE CONTRACTOR SHALL TAKE STANDARD PROCTOR DENSITIES AND SUBMIT THE RESULTS TO THE INSPECTOR FOR APPROVAL.

## PIPE MATERIAL:

1. GRAVITY WASTEWATER LINE TO BE SDR 26 PVC COLORED GREEN.

- 2. FORCE MAIN LINES 2" IN DIAMETER OR LESS TO BE SCHEDULE 80 PVC.
- 3. FORCE MAIN LINES 3" IN DIAMETER TO BE SDR 21 PVC.
- 4. FORCE MAIN LINES 4" IN DIAMETER OR GREATER TO BE C900 PVC DR 14
- 5. ALL BURIED PIPING TO HAVE PROPERLY LABELED DETECTABLE TAPE.
- 6. ALL EXPOSED PIPING TO HAVE FLANGED FITTINGS, UNLESS NOTED OTHERWISE. SCHEDULE 80 PVC TO HAVE FLANGED BY GLUE FITTINGS. ALL BURIED PIPING TO HAVE MECHANICAL JOINT FITTINGS WITH RESTRAINTS, UNLESS NOTED OTHERWISE.
- 7. ALL HORIZONTAL AND VERTICAL FORCEMAIN BENDS SHALL BE MECHANICALLY RESTRAINED TO THE PIPE USING MEGA—LUG OR APPROVED COA EQUAL, AND HAVE CONCRETE THRUST BLOCKING

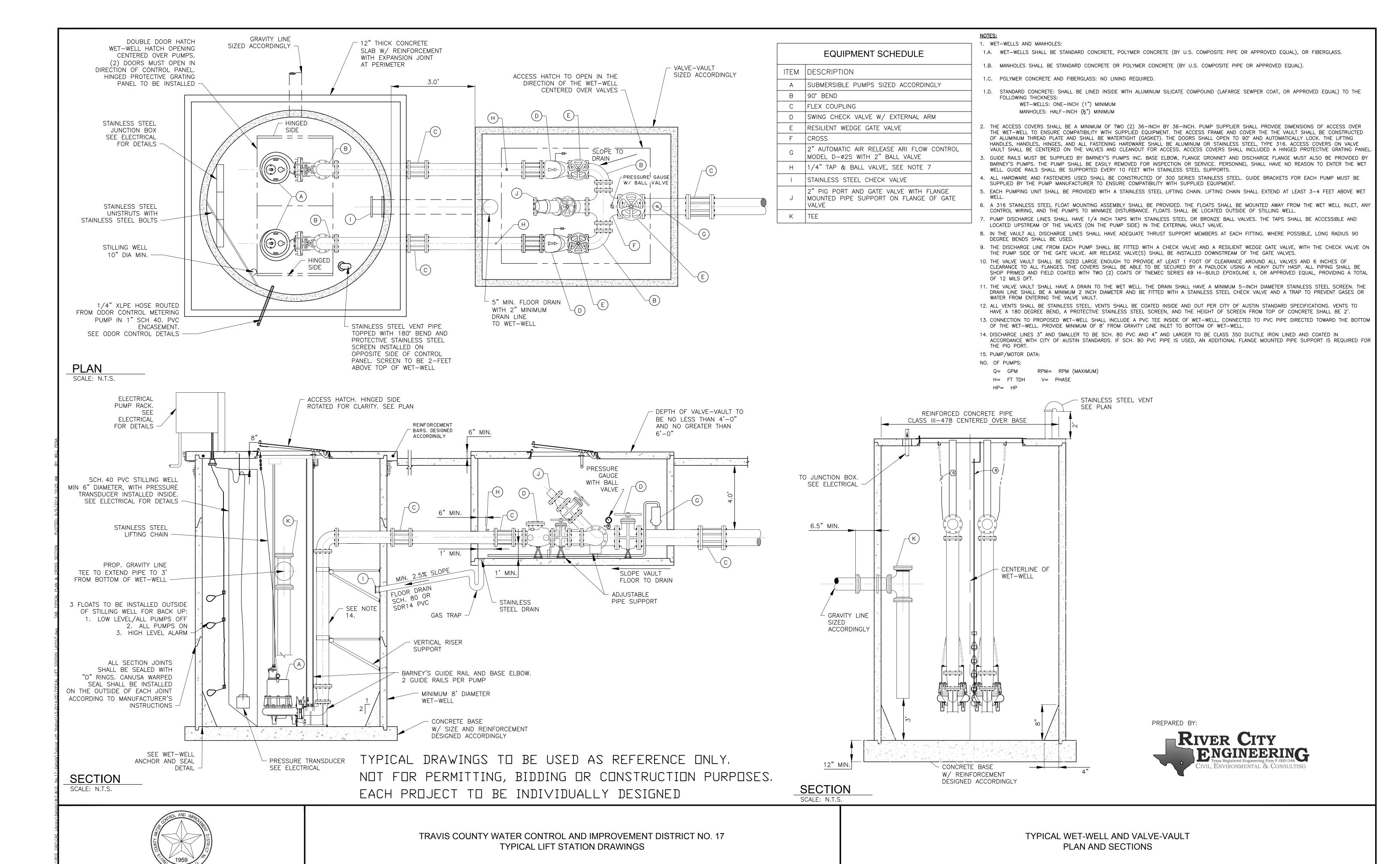
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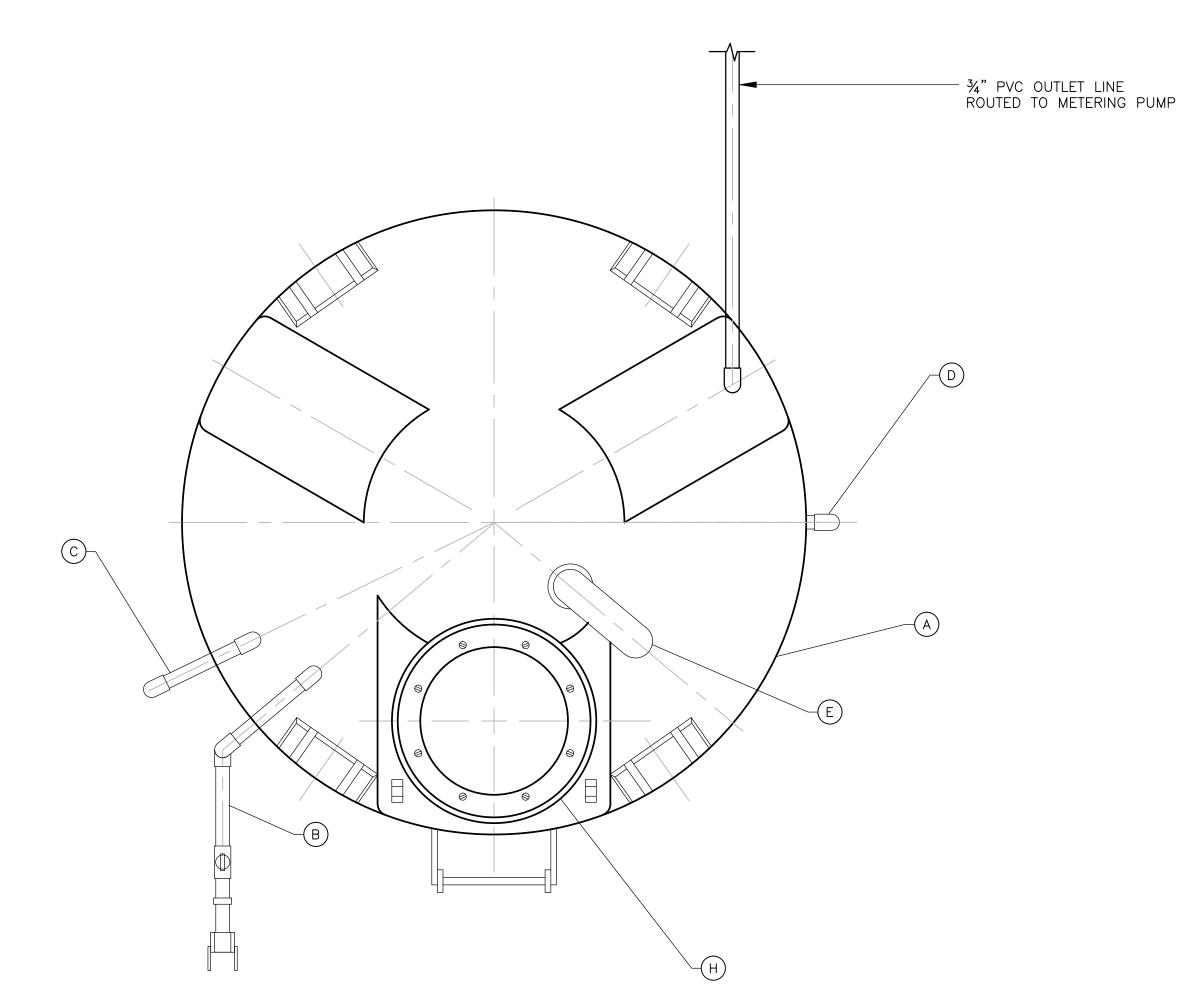




TRAVIS COUNTY WATER CONTROL AND IMPROVEMENT DISTRICT NO. 17
TYPICAL LIFT STATION DRAWINGS

TYPICAL LIFT STATION LAYOUT



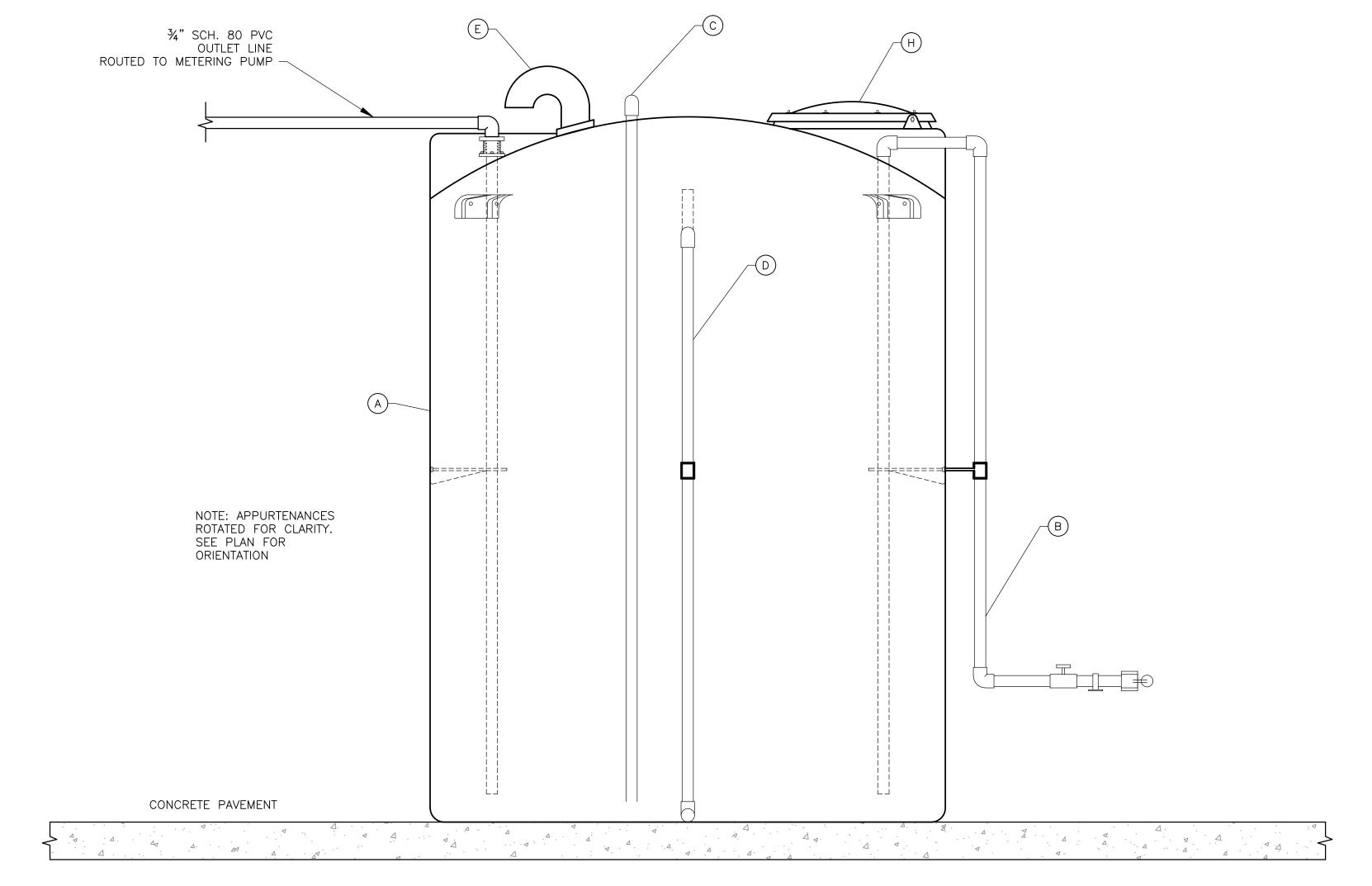


TYPICAL ODOR CONTROL STORAGE TANK PLAN SCALE: N.T.S.

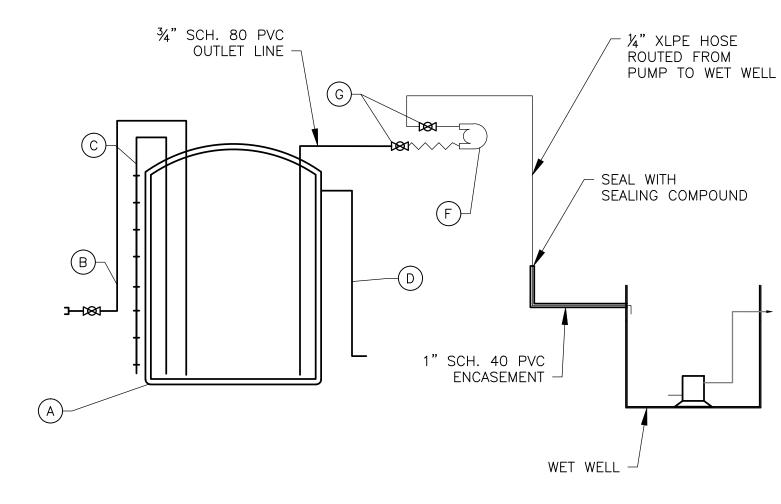
EQUIPMENT SCHEDULE		
ITEM	DESCRIPTION	QUANTITY
А	FERRIC SULFATE ODOR CONTROL STORAGE TANK. 2500 GALLON DOUBLE WALLED CROSS—LINKED HDPE TANK.	1
В	2" FILL LINE WITH 2" BALL VALVE AND 2" LOCKABLE CAM-LOCK QUICK DISCONNECT	1
С	REVERSE FLOAT TYPE SIGHT GAUGE	1
D	3" OVERFLOW	1
E	4" VENT PIPE	1
F	METERING PUMP (QDOS MANUAL METERING PUMP BY WATSON MARLOW, OR APPROVED EQUAL)	1
G	PVC BALL VALVE	2
Н	ACCESS MANWAY AND COVER	1

## NOTES:

- 1. ODOR CONTROL STORAGE TANK, PIPING, METERING PUMP, AND APPURTENANCES TO BE SIZED ACCORDINGLY BASED ON APPLICATION AND SIZE OF LIFT STATION. SIZES SHOWN ARE TYPICAL MINIMUMS. COORDINATE WITH WCID 17. TANK MATERIAL, DIMENSIONS, AND APPURTENANCES TO BE DESIGNED ACCORDINGLY.
- 2. ORIENTATION OF PIPING AND APPURTENANCES IN ELEVATION AND SCHEMATIC ARE ROTATED FOR CLARITY. SEE PLAN VIEW FOR CORRECT ORIENTATION
- 3. METERING PUMP TO BE MOUNTED ON THE SIDE OF THE ELECTRIC PANEL AWNING. SEE ELECTRICAL FOR DETAILS



## TYPICAL ODOR CONTROL STORAGE TANK ELEVATION SCALE: N.T.S.



TYPICAL ODOR CONTROL SCHEMATIC



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TYPICAL ODOR CONTROL DETAIL

