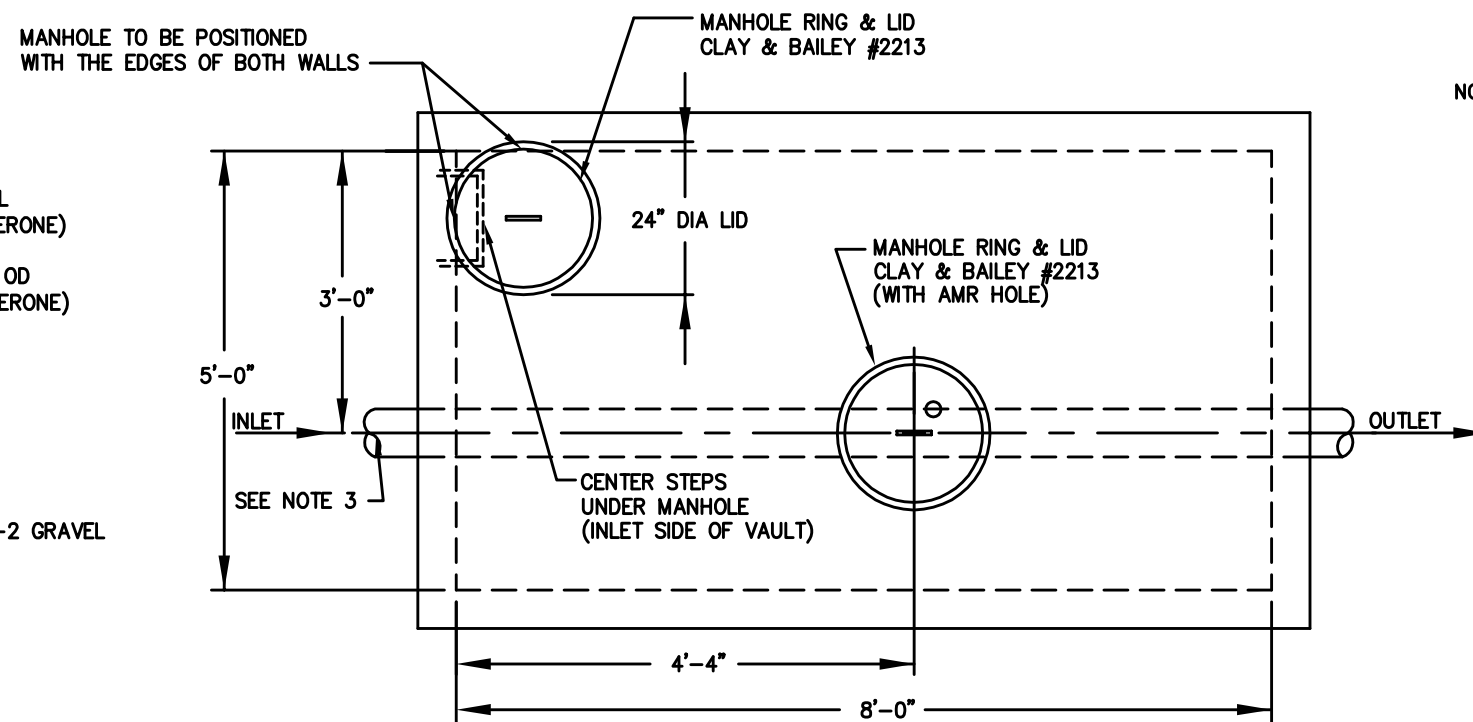
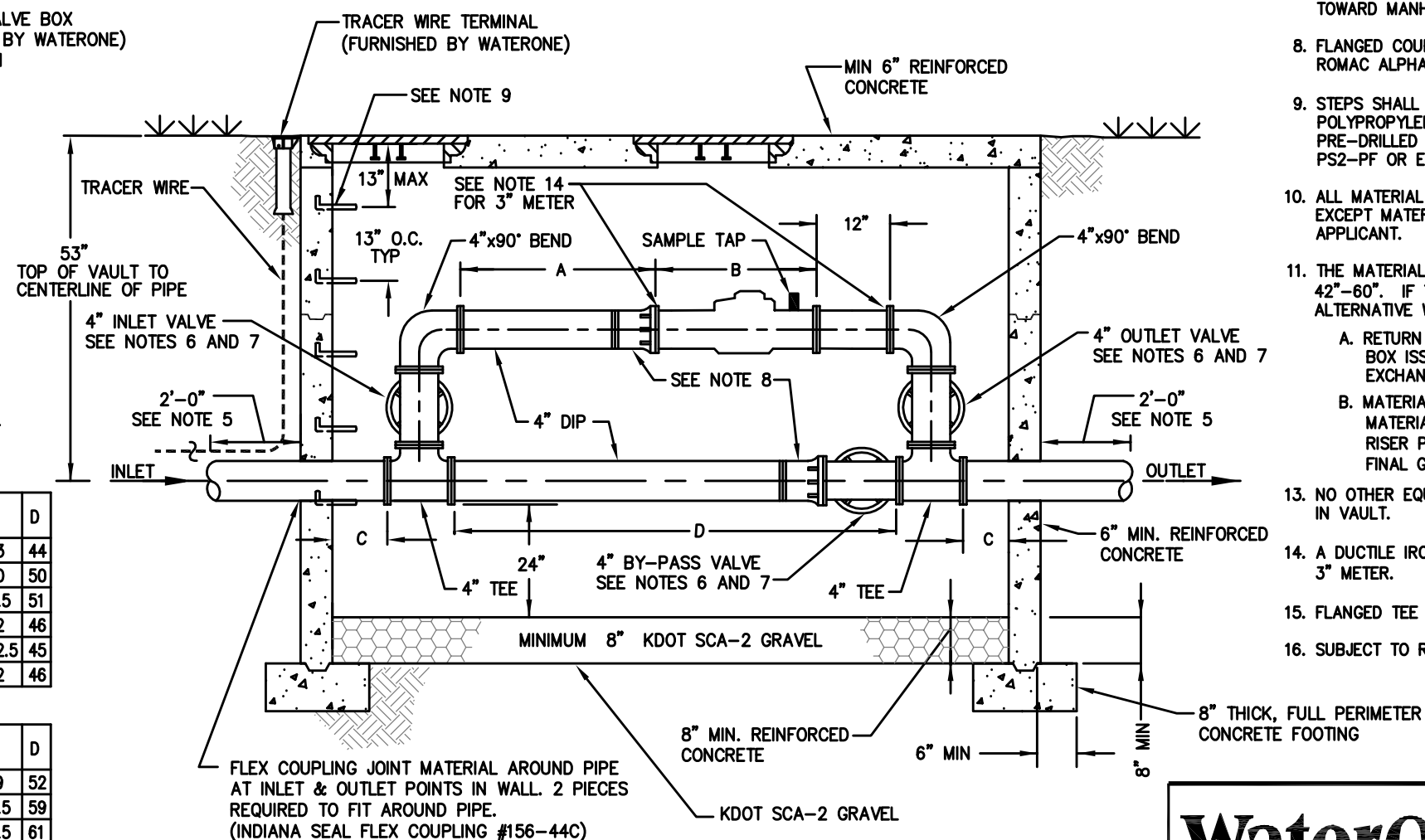


4" METER LAYOUT DIMENSIONS (INCHES)	A	B (COMBINED METER/STRAINER)	C	D
4" COMPOUND SENSUS	20	20	9	52
4" COMPOUND NEPTUNE	20	27.5	5.5	58
4" COMPOUND BADGER	20	29	4.5	61
4" TURBINE SENSUS	20	23	7.5	55
4" TURBINE NEPTUNE	20	21.5	8	54
4" TURBINE BADGER	20	23	7.5	55



PLAN VIEW



SECTION VIEW

- NOTES:
1. VAULT SHALL BE LOCATED IN NON-TRAFFIC, NON-PEDESTRIAN AREA. VAULT LID SHALL BE AT GRADE AND FULLY EXPOSED. PRE-APPROVAL OF THE VAULT LOCATION SHALL BE OBTAINED FROM THE SITE INSPECTION BY WATERONE PERSONNEL.
 2. IF METER VAULT CANNOT BE PLACED AT PROPERTY LINE, WITHIN AN EASEMENT, OR AT A MAXIMUM DISTANCE OF 15' FROM THE MAIN, THEN A SECOND VALVE SHALL BE REQUIRED BETWEEN TAP AND METER VAULT.
 3. THE SERVICE CONNECTION LINE FROM MAIN UP TO METER VAULT SHALL BE AWWA C900 DR18 PVC OR AWWA C906 DR 11 HDPE. OTHER PIPE MATERIALS MAY BE INSTALLED WITH WRITTEN WATERONE APPROVAL. SIZE OF UPSTREAM CONNECTION PIPING SHALL BE DETERMINED BY WATERONE.
 4. STRUCTURAL MEMBERS OF THE VAULT SHALL BE DESIGNED BY A LICENSED PROFESSIONAL STRUCTURAL ENGINEER. PRECAST CONCRETE VAULT AND LID DESIGNED BY A LICENSED PROFESSIONAL ENGINEER IS ACCEPTABLE. SHOP DRAWINGS OF THE VAULT SHALL BE SUBMITTED FOR APPROVAL TO WATERONE SERVICES DIVISION.
 5. ALL PIPE AND FITTINGS INSIDE VAULT & WITHIN 2 FEET OF VAULT WALL SHALL BE CEMENT MORTAR LINED, FLANGED, PRESSURE CLASS 350 OR THICKER DUCTILE IRON PIPE. ALL EXTERNAL DIP SHALL BE INSTALLED WITH V-BIO POLYWRAP. FITTINGS SHALL BE SHALL BE AWWA C153 DESIGN.
 6. VALVES INSIDE VAULT SHALL BE MUELLER 2361 SERIES, AMERICAN FLOW CONTROL 2500 SERIES, EAST JORDAN FLOWMASTER SERIES, OR CLOW 2638 SERIES WITH HAND WHEELS, OPEN LEFT. RISING STEM VALVES SHALL NOT BE USED.
 7. BY-PASS VALVE, METER INLET VALVE AND OUTLET VALVE, SHALL BE ROTATED 90° TOWARD MANHOLE SIDE OF VAULT.
 8. FLANGED COUPLING ADAPTER SHALL BE A HYMAX GRIP FLANGE ADAPTOR OR ROMAC ALPHA FLANGE COUPLING ADAPTOR, WITHOUT EXCEPTION.
 9. STEPS SHALL BE ON FLOW INLET END OF VAULT. (5 STEPS REQUIRED) POLYPROPYLENE STEPS SHALL BE CAST IN PLACE OR GROUTED IN PLACE IN PRE-DRILLED HOLES, NOT DRIVEN IN PLACE. STAIRS SHALL BE M.A. INDUSTRIES PS2-PF OR EQUAL.
 10. ALL MATERIAL FOR THE INSTALLATION SHALL BE PROVIDED BY THE APPLICANT EXCEPT MATERIAL NOTED ON DRAWING BY WATERONE, PAID FOR BY THE APPLICANT.
 11. THE MATERIAL ORIGINALLY SUPPLIED IS FOR A MAIN WITH A DEPTH BETWEEN 42"-60". IF THE MAIN IS MORE THAN 60" DEEP, THEN A VALVE BOX ALTERNATIVE WILL BE NEEDED BY FOLLOWING THE STEPS LISTED BELOW:
 - A. RETURN LID, LONG TOP AND SHORT BOTTOM OF THE STANDARD VALVE BOX ISSUED, TO WATERONE MATERIAL MANAGEMENT DEPARTMENT FOR EXCHANGE.
 - B. MATERIAL MANAGEMENT DEPARTMENT WILL ISSUE ALTERNATIVE VALVE BOX MATERIALS AND PVC RISER PIPE AT NO ADDITIONAL COST.
RISER PIPE FOR VALVE BOX TO BE 6" CLASS DR18 PVC PIPE CUT TO FIT FINAL GRADE.
 13. NO OTHER EQUIPMENT OF ANY DESCRIPTION SHALL BE INSTALLED OR STORED IN VAULT.
 14. A DUCTILE IRON 4"x3" THREADED COMPANION FLANGE SHALL BE FURNISHED FOR A 3" METER.
 15. FLANGED TEE SHALL BE 4"x4"x4" FOR BOTH 3" & 4" METERS.
 16. SUBJECT TO REVISION WITHOUT NOTICE.

WaterOne

Water District No.1 of Johnson County

3" & 4" METER & VAULT INSTALLATION

DRAWN BY: BKP

DATE: 6/5/24

DWG NO. **ES-1829**