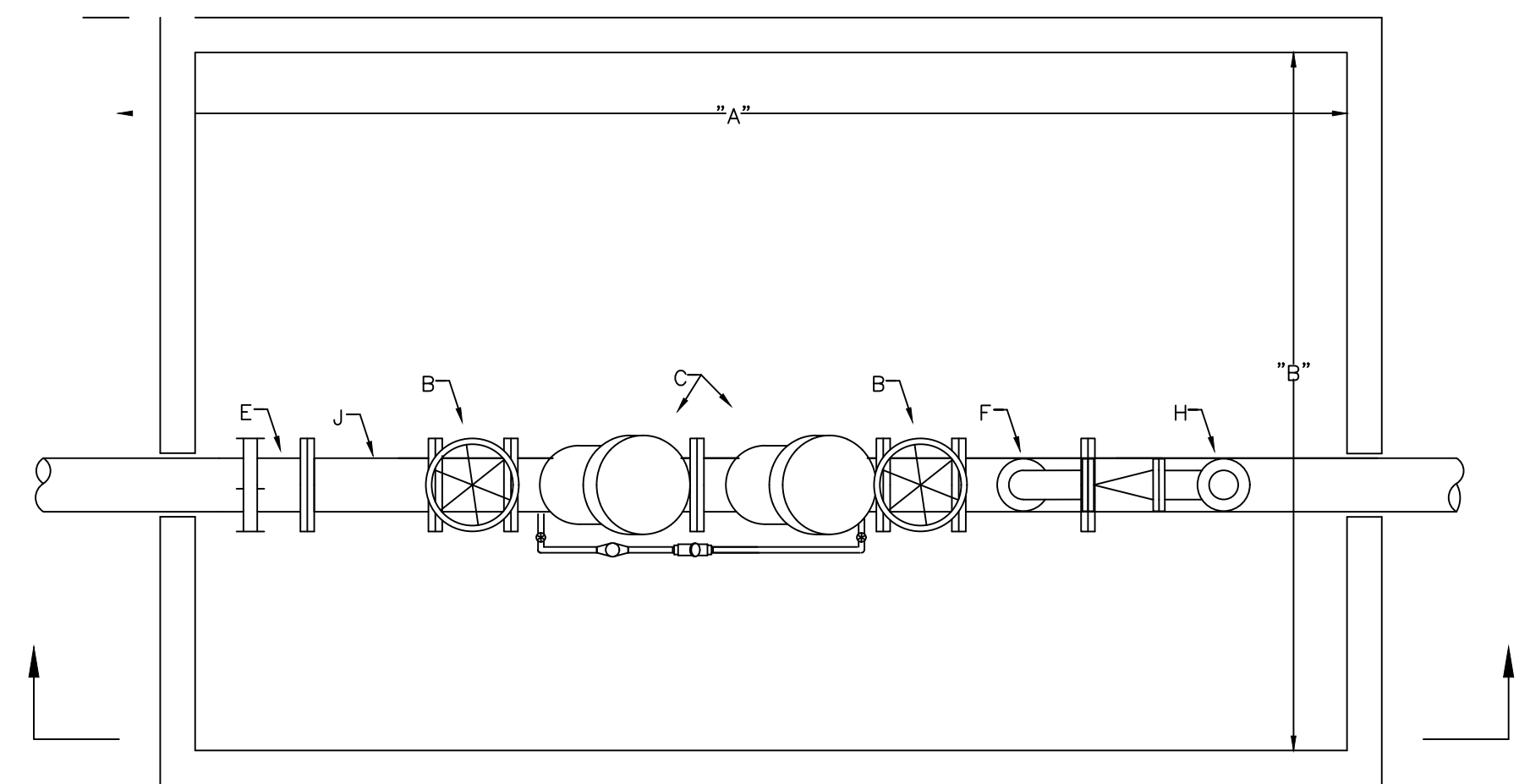
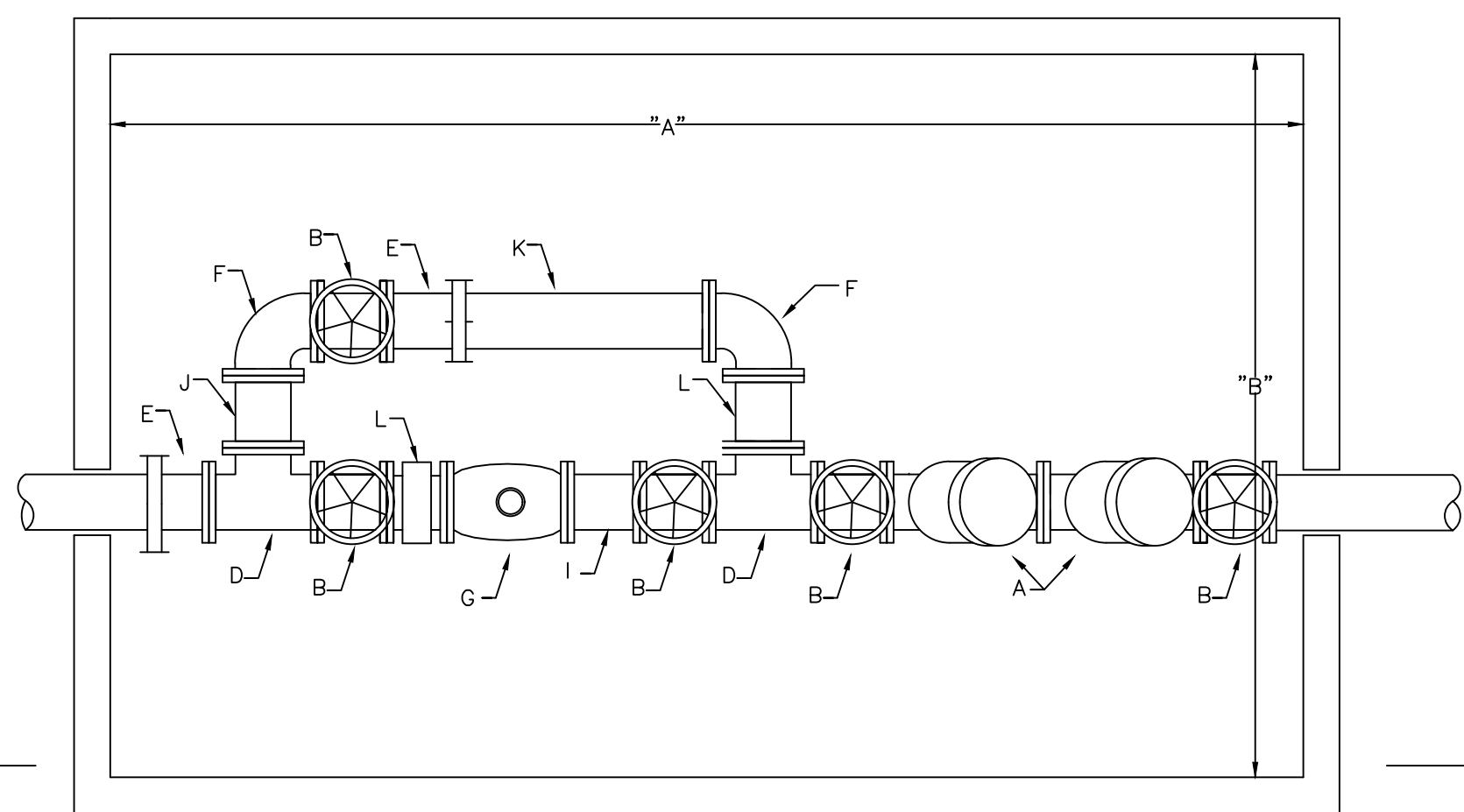
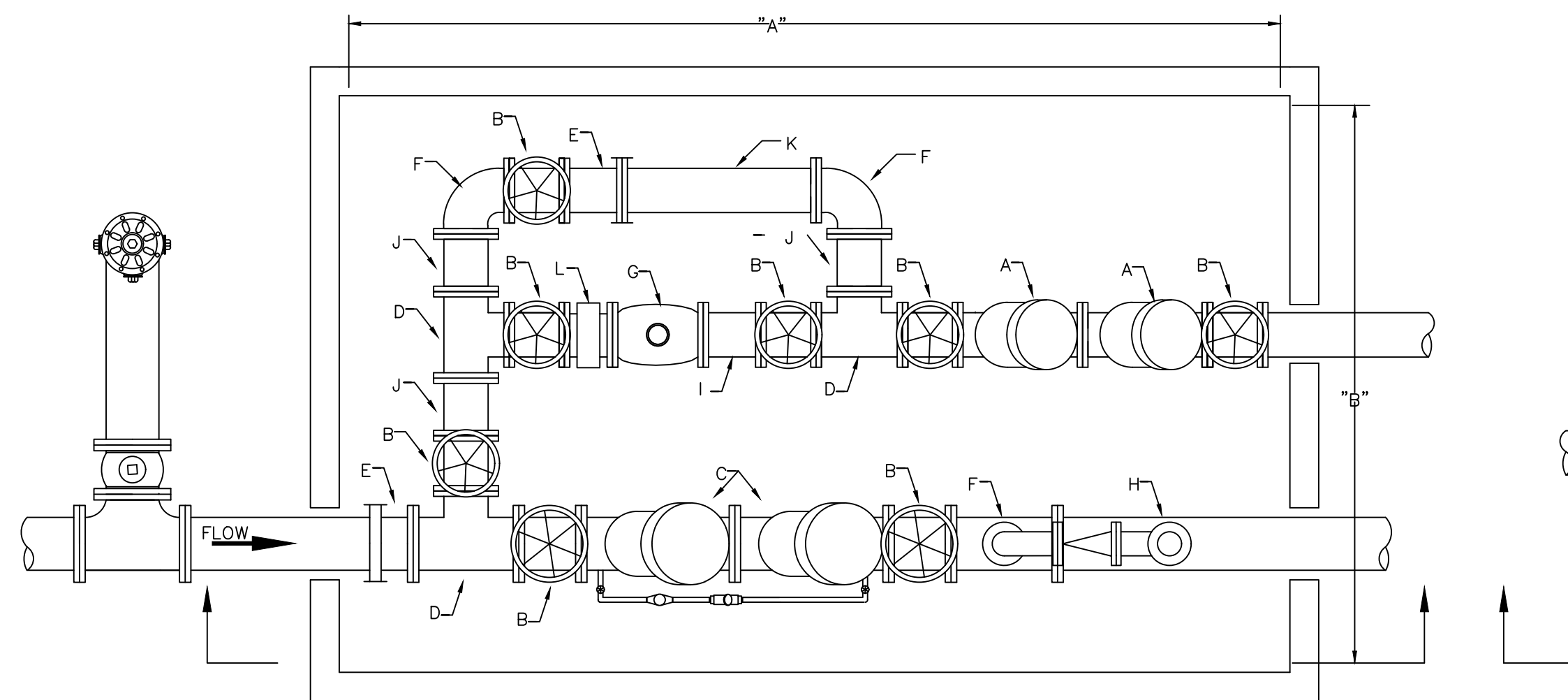
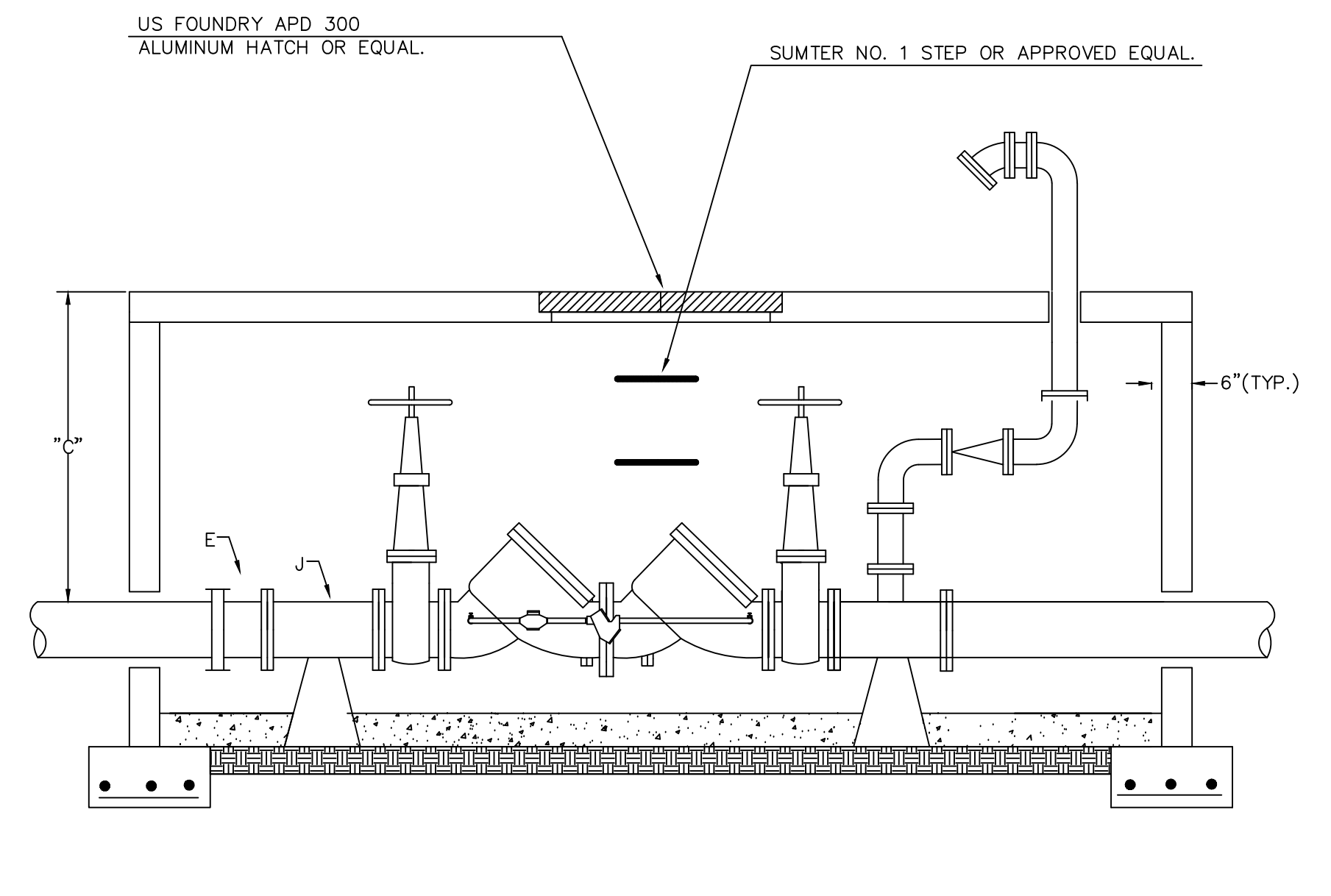
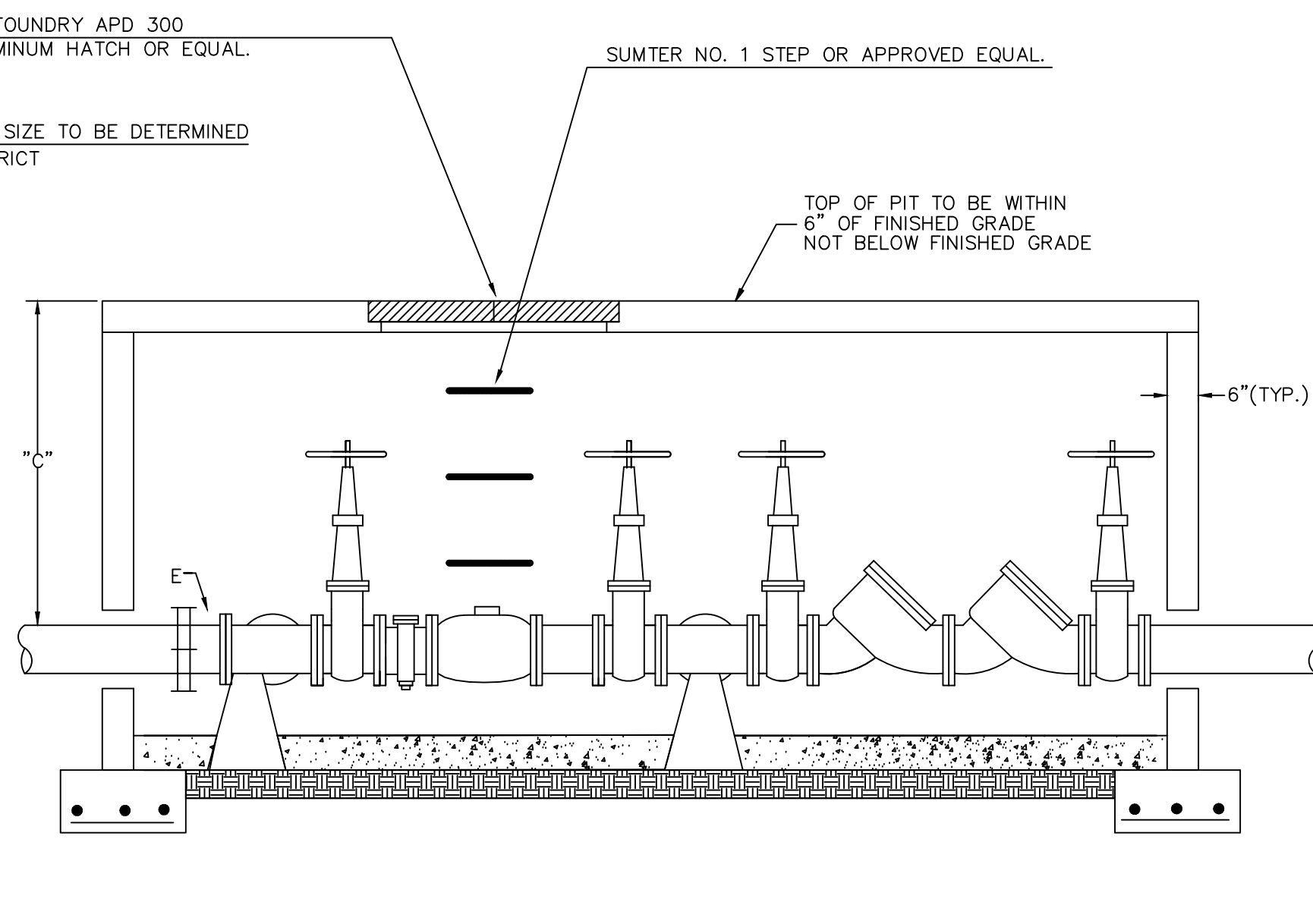
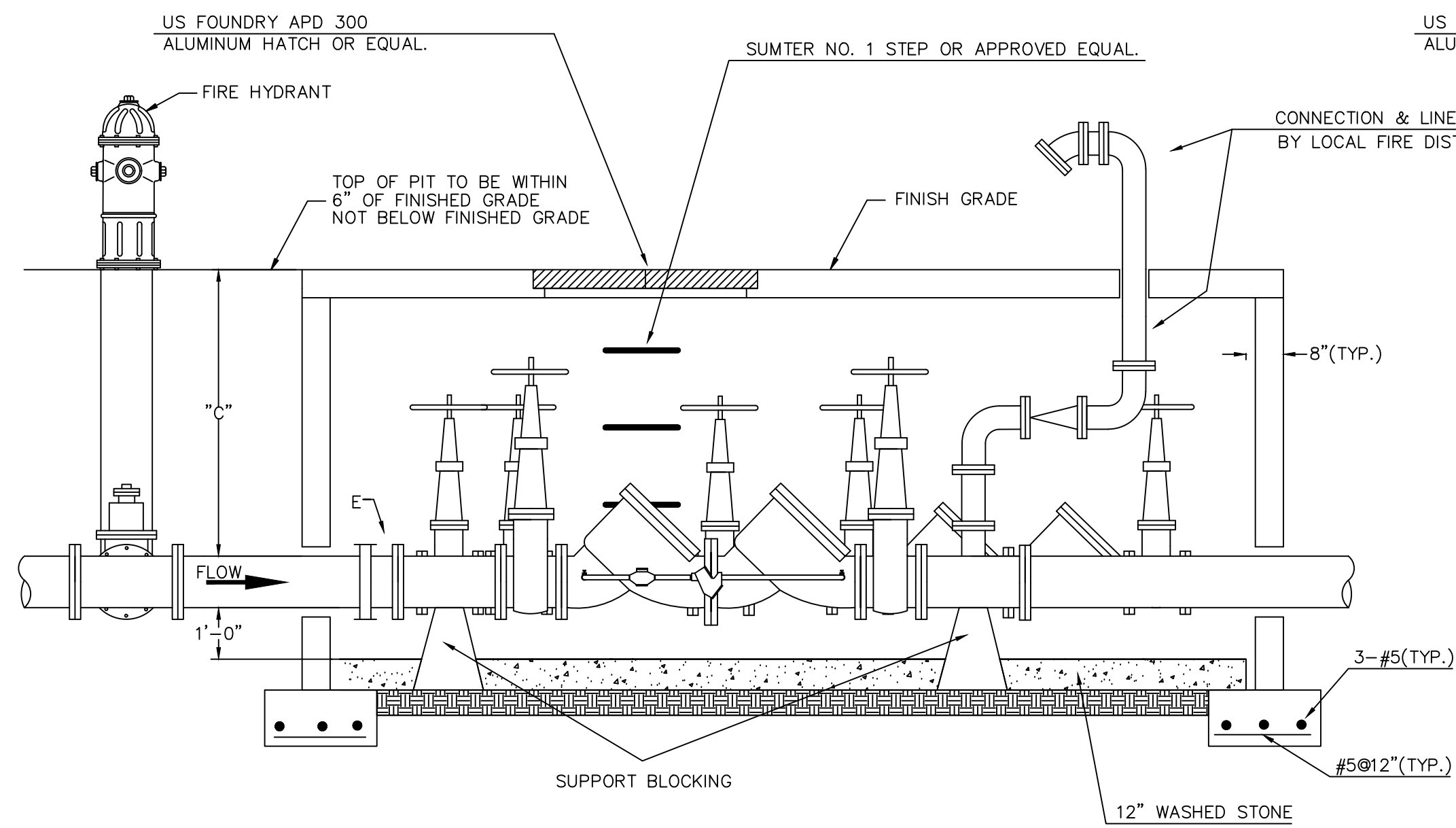




METER AND BACKFLOW
PREVENTER VAULT

$\left(\frac{V}{2}\right)$ METER VAULT

Ⓟ BACKFLOW PREVENTER VAULT

LEGEND

- A. DOUBLE CHECK VALVE ASSEMBLY.
- B. OS&Y RESILIENT SEAT GATE VALVE (FLG X FLG WITH HAND WHEEL OPERATOR) AS MANUFACTURED BY MUELLER, US PIPE, AND AMERICAN FLOW CONTROL.
- C. DOUBLE CHECK VALVE ASSEMBLY WITH DETECTOR CHECK.
- D. DUCTILE IRON FLG TEE.
- E. FLG COUPLING ADAPTOR.
- F. DUCTILE IRON 90° BEND.
- G. METER (PROVIDED AT COST BY BPW ALONG WITH ALL ELECTRONICS).
- H. FIRE DEPARTMENT CONNECTION (AS REQUIRED BY LOCAL FIRE DEPARTMENT).
- I. DUCTILE IRON PIPE FLG X P.E. 12" LENGTH.
- J. DUCTILE IRON PIPE FLG X FLG 12" LENGTH.
- K. DUCTILE IRON PIPE FLG X P.E. LENGTH AS REQUIRED.
- L. STRAINER (PROVIDED AT COST BY BPW).

(NOTE: ALL MATERIAL PER BPW SPECS)

NOTES

1. VAULT SHALL BE IN NON TRAFFIC AREA OUTSIDE OF ROAD RIGHT-OF-WAY, COMPLETELY ON THE CUSTOMERS PROPERTY. VAULT OWNERSHIP AND MAINTENANCE IS THE RESPONSIBILITY OF THE CUSTOMER / PROPERTY OWNER.
2. VAULT TO BE PRECAST CONCRETE OR POURED IN PLACE. PRECAST CONCRETE VAULT TO BE M30, T20, OR EQUAL (UPON APPROVAL).
3. CONCRETE SHALL BE 3000 PSI, 28 DAY COMPRESSIVE STRENGTH, MINIMUM.
4. REINFORCING STEEL IN TOP SLAB AND WALLS SHALL BE #5 REBAR AT 12" O.C. EACH DIRECTION. REINFORCING STEEL SHALL BE GRADE 60.
5. VAULT SHALL NOT BE LOCATED IN AN AREA SUSCEPTIBLE TO AROUND WATER RUNOFF, STORM DRAIN COLLECTION AND DISCHARGE, OR AREAS PRONE TO CONSTANT WATER INFILTRATION. VAULT SHALL BE ABLE TO DRAIN BY GRAVITY OR BY ALTERNATE MEANS. PIPING SHALL NOT BE SUBMERGED.
6. HATCH DOOR TO BE LOCATED OVER METER AND STRAINER FOR EASE OF REMOVAL.
7. HYDRANT ASSEMBLY TO BE INSTALLED PRIOR TO VAULT WHEN FIRE DEPARTMENT CONNECTION IS REQUIRED.
8. ALL BACKFLOW PREVENTION DEVICES SHALL BE APPROVED BY S.C. DHEC AND BPW. ALL CONNECTIONS TO BE MADE BY BPW.
9. FOR HIGH HEALTH HAZARD LOCATIONS, A REDUCED PRESSURE TYPE BACKFLOW PREVENTION DEVICE SHALL BE USED. REDUCED PRESSURE DEVICE MUST BE LOCATED ABOVE GRADE OR IN VAULT WITH ACCEPTABLE DRAINAGE.
10. A METER TRANSDUCER WILL BE INSTALLED BY BPW WHEN A DETECTOR CHECK IS PART OF THE BACKFLOW ASSEMBLY.
11. ALL BACKFLOW PREVENTION DEVICES MUST BE SUCCESSFULLY TESTED PRIOR TO INSTALLATION AND ACCEPTED BY THE BPW INSPECTOR.
12. SERVICE WILL NOT BE TURNED ON UNTIL AN AGREEMENT IS EXECUTED BETWEEN THE OWNER AND BPW, AND THE VAULT IS COMPLETED AND ACCEPTED BY THE BPW INSPECTOR.

 $V-1$

LINE SIZE	A	B	C	DOOR SIZE
2	—	—	—	—
3	—	—	—	—
4	—	—	—	—
6	13'-0"	9'-0"	4'-11"	4' X 4' DBL. DR.
8	13'-0"	9'-0"	4'-10"	4' X 4' "
10	16'-6"	9'-0"	4'-9"	5' X 5' "
12	16'-6"	9'-0"	4'-8"	5' X 5' "

MINIMUM INSIDE DIMENSION

V-2

LINE SIZE	A	B	C	DOOR SIZE
2	11'-0"	5'-0"	5'-0"	4' X 4' DBL. DR.
3	12'-0"	6'-0"	5'-0"	4' X 4' " "
4	13'-0"	6'-0"	5'-0"	4' X 4' " "
6	15'-0"	6'-0"	4'-11"	4' X 4' " "
8	*	*	*	4' X 4' " "
10	*	*	*	5' X 5' " "
12	*	*	*	5' X 5' " "

MINIMUM INSIDE DIMENSION
* AS NEEDED PER JOB

V-3

LINE SIZE	A	B	C	DOOR SIZE
2	—	—	—	—
3	—	—	—	—
4	—	—	—	—
6	8'-0"	6'-0"	4'-11"	4' X 4' DBL. DR.
8	8'-0"	6'-0"	4'-10"	4' X 4' " "
10	10'-0"	6'-0"	4'-9"	5' X 5' " "
12	10'-0"	6'-0"	4'-8"	5' X 5' " "

MINIMUM INSIDE DIMENSION

DATE	REVISIONS & RECORDS OF ISSUE	BY	CH	AP	DRAWN <u>A. HARRIS</u>		GAFFNEY BOARD OF PUBLIC WORKS	SEAL	PROJECT NAME VAULT DETAILS	PROJECT NO.	SHEET NO.
					CHECKED _____		GAFFNEY, SC 29340				
					APPROVED _____						
					DATE <u>3-25-25</u>		864-488-8800				