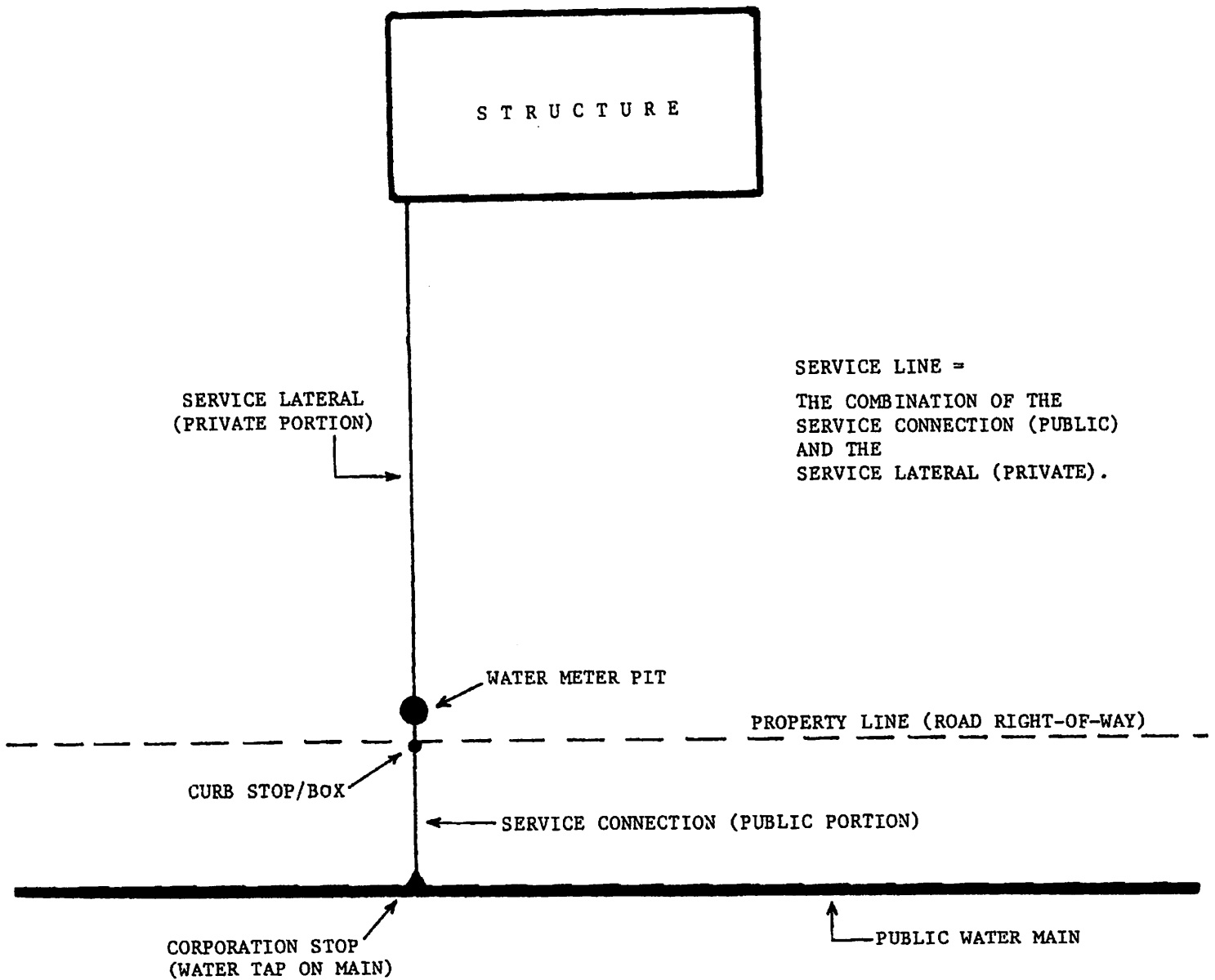


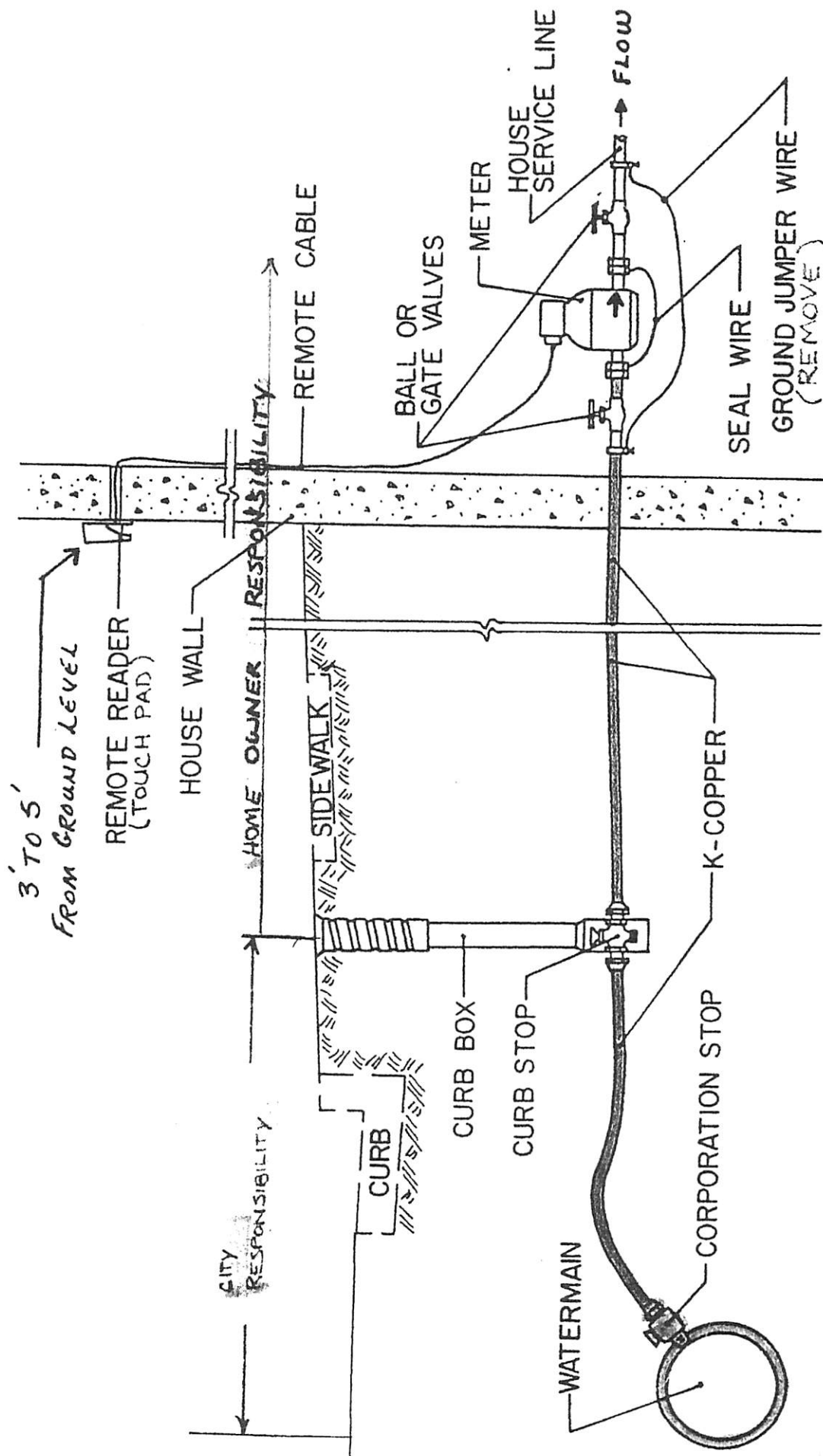
CITY OF PORT CLINTON

APPENDIX “D”

**STANDARD SPECIFICATIONS
DRAWINGS**

FIGURE #1
TYPICAL WATER SERVICE LINE

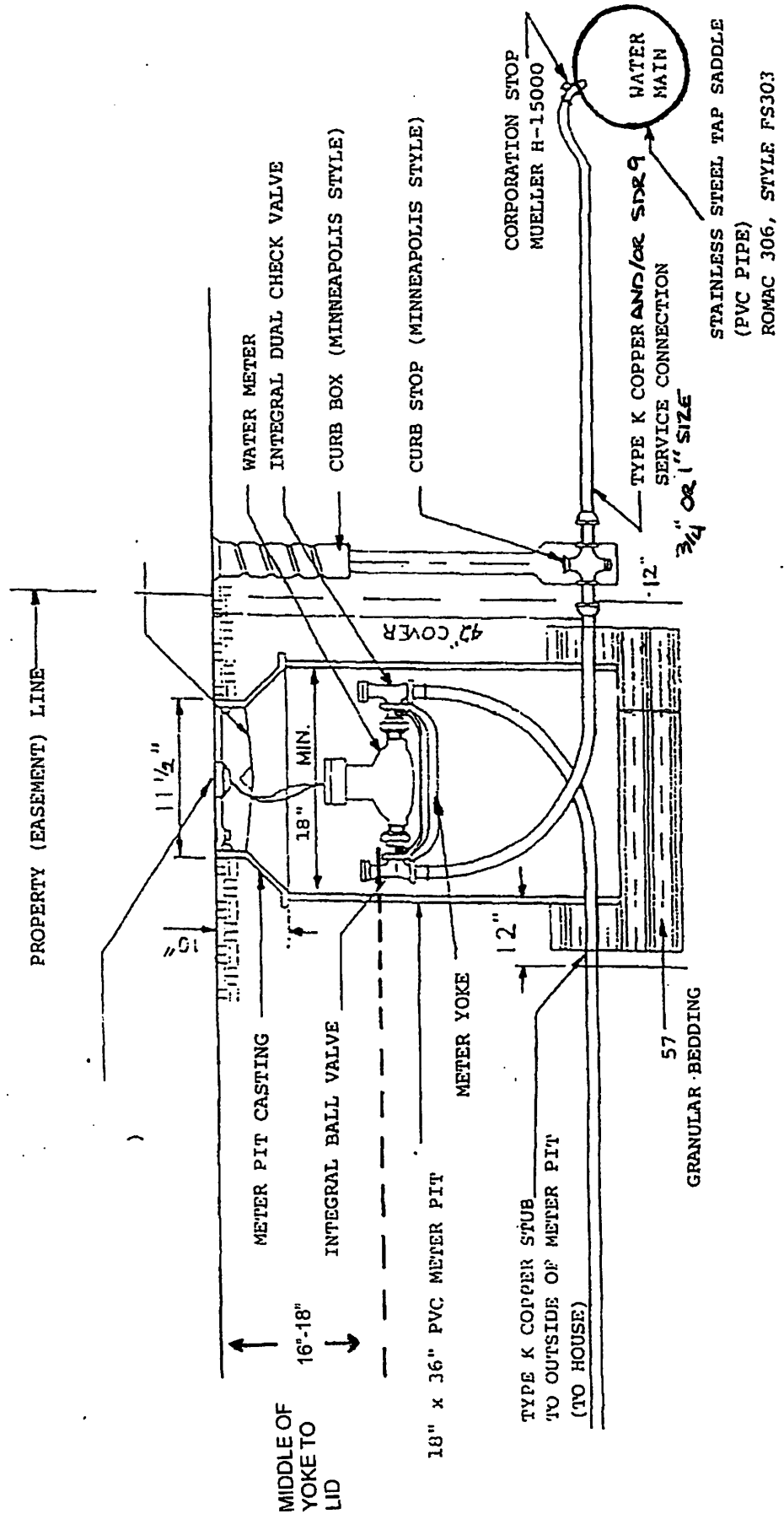




WATER SERVICE - INSIDE METER SETTING

8/15/03

FIGURE #2
TYPICAL 5/8" X 1 1/2" METER PIT SETTING/SPECIFICATIONS
PORT CLINTON OHIO



ON ANY NEW INSTALLATION OF WATER SERVICE LINES 1" IS PREFERRED.

**Specification #'s from HD SUPPLY for Water Pit
upgrades in the City Of Port Clinton: RESIDENTIAL ONLY**

Iron Yoke Piece 5/8 Y501

Expansion Connection EC-5/8

¾ Angle Valve AV94-313WQ

HHCA94-313Q 5/8 ANG DUAL

CHECK VALVE MTR YOKE x QJ

METER PIT MATERIAL

18" C32-T TYPE C CVR W/ TRLID

18" PRO LINK CORR PIPE

FIGURE #2A
TYPICAL 3/4" and 1" METER PIT SETTING/SPECIFICATIONS
 PORT CLINTON, OHIO

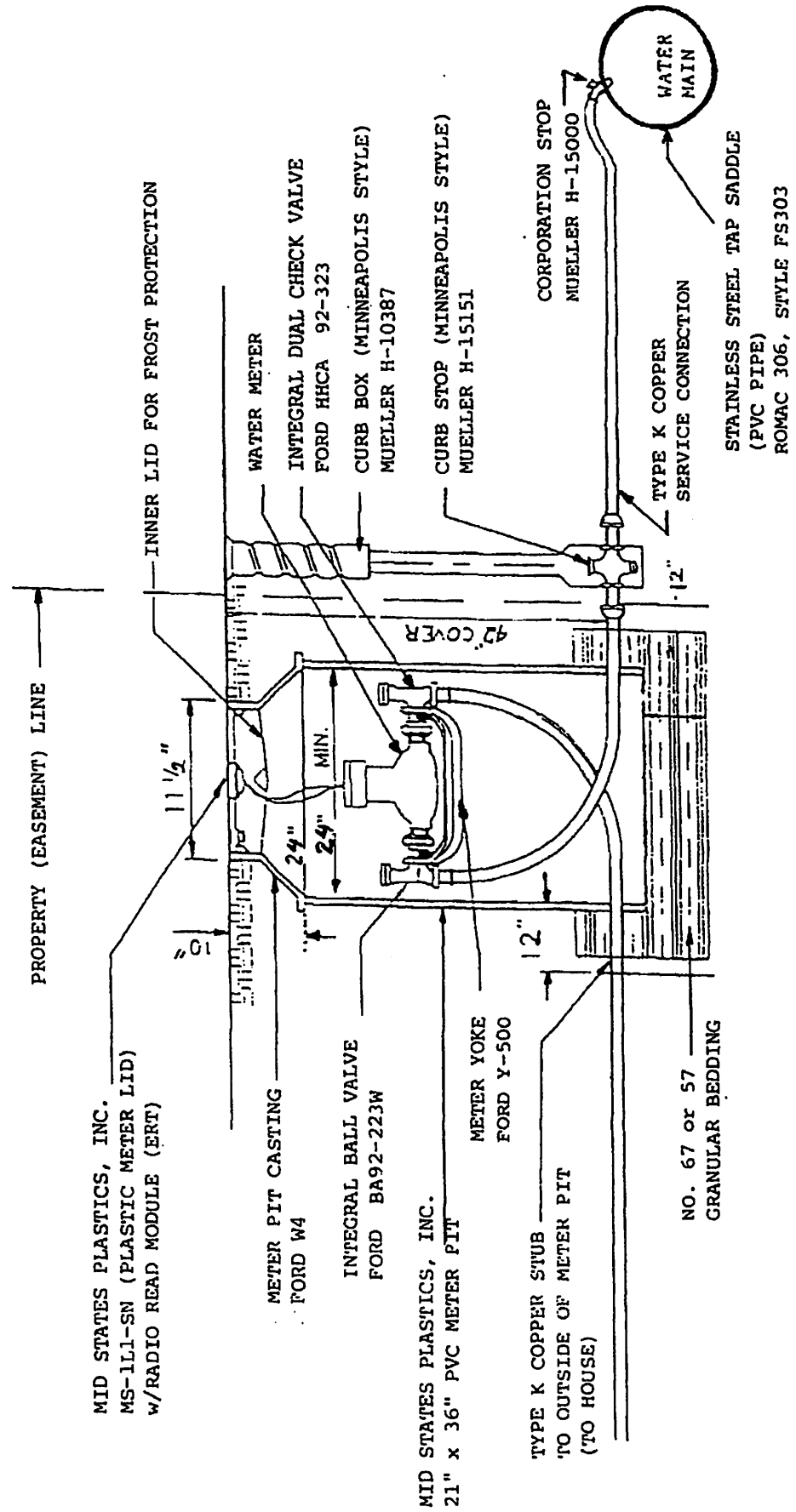


FIGURE #3
TYPICAL 1 1/2" - 2" METER PIT SETTING

1/29/02

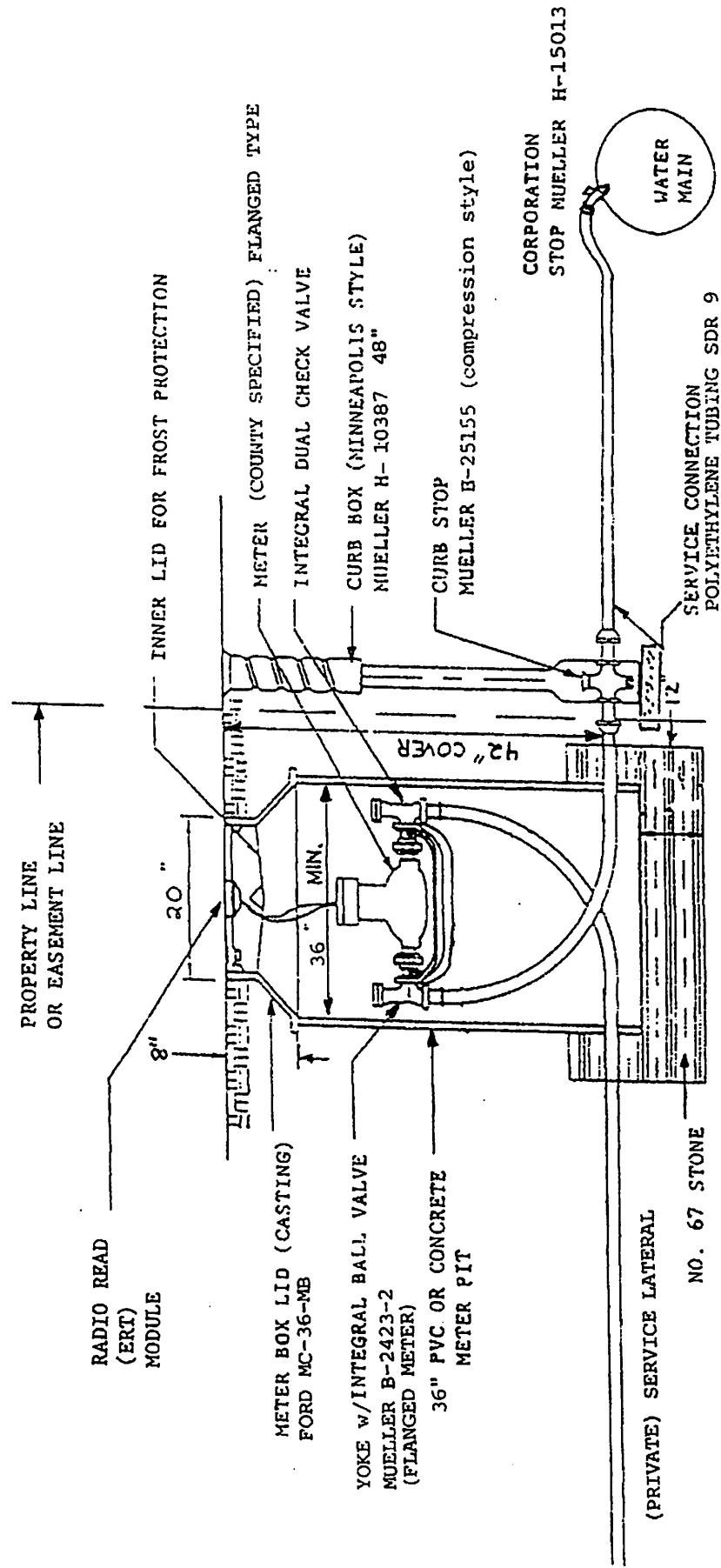
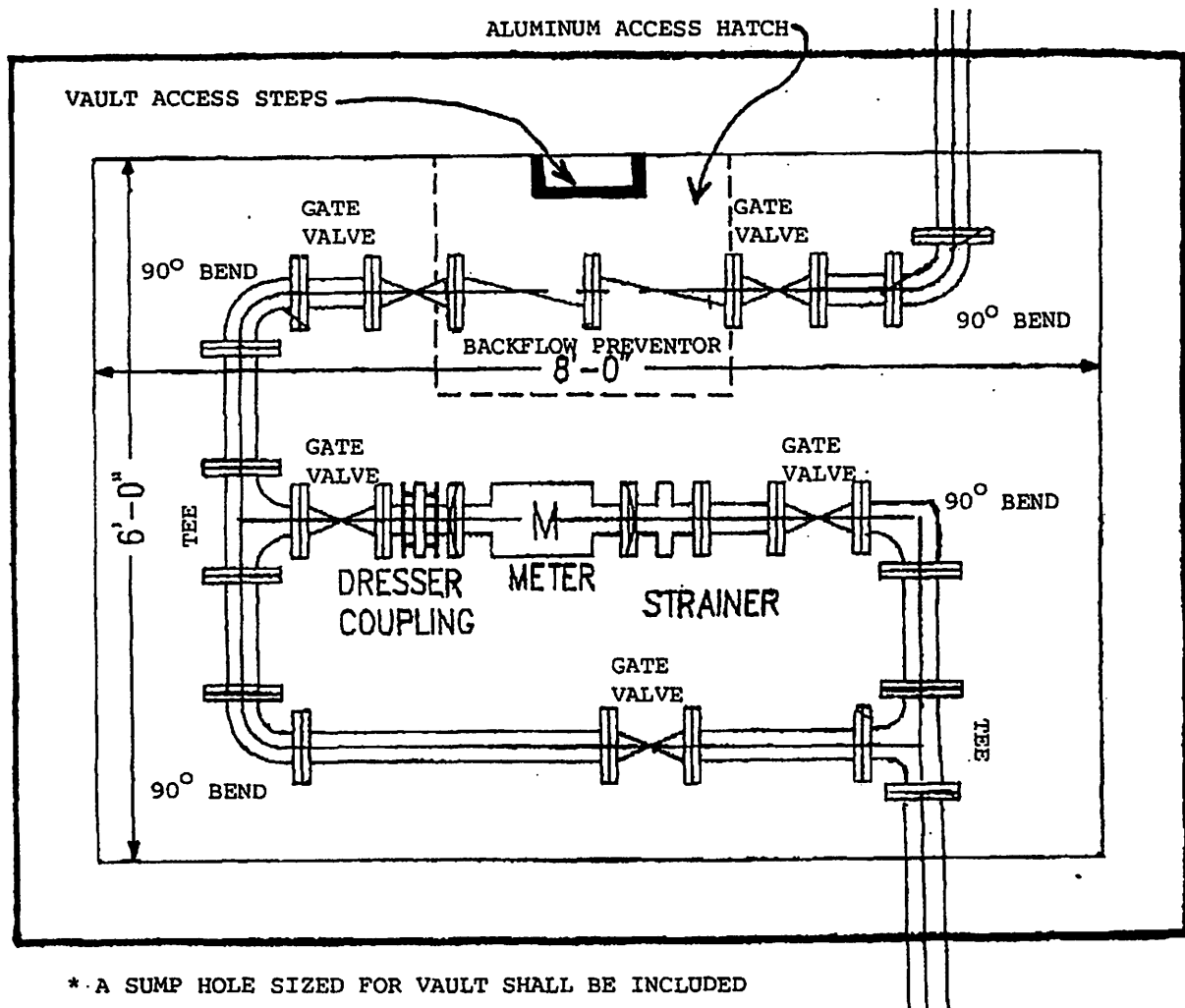


FIGURE #4
TYPICAL 3" AND LARGER METER VAULT
w/BACKFLOW PREVENTOR, METER, AND BY-PASS

5/10/01

OTTAWA COUNTY



GENERAL NOTES:

- All piping, valves, and appurtenances within vault are the same diameter/size of service line.
- Vaults for 8" diameter service lines and larger shall require a larger vault than one shown.
- Shop drawings for the vault and all appurtenances must be submitted for approval prior to the issuance of a permit.
- All vaults shall have a concrete floor unless otherwise approved by the Sanitary Engineer.

FIGURE #5A
(STANDARD) TYPE "A" HYDRANT SETTING
(PERPENDICULAR TO WATER MAIN)

NOTE: STEAMER NOZZLE SHALL BE 4½"
 SIDE NOZZLES SHALL BE 2½"
 STORM FITTINGS ON STEAMER NOZZLES
 HYDRANT SHALL BE RED WITH
 WHITE CAPS AND BONNET (TOP)

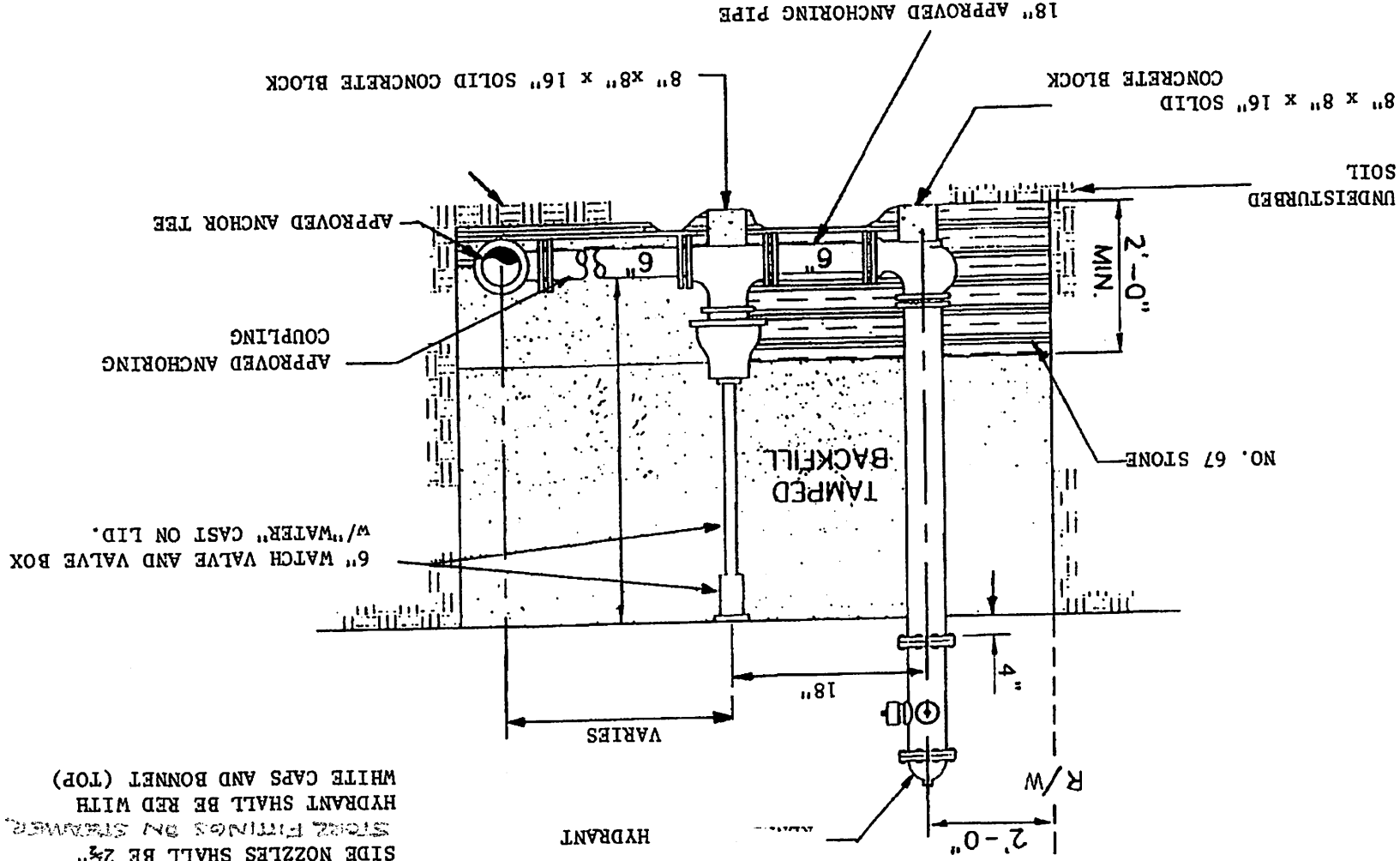
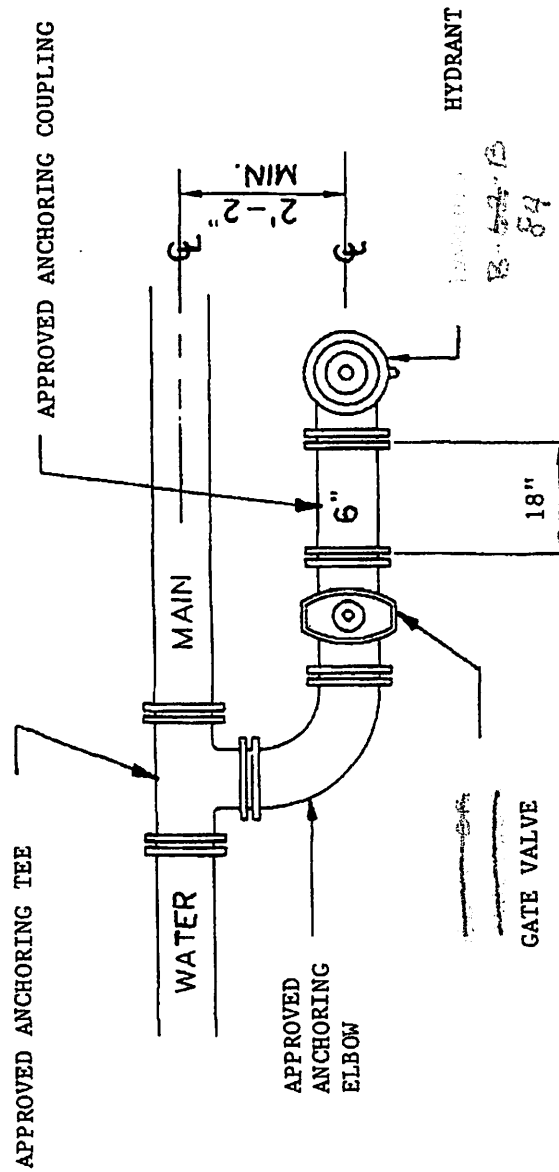


FIGURE #5B
TYPE "B" HYDRANT SETTING (PARALLEL TO WATER MAIN)

NOTE: BLOCKING UNDER PIPE AND HYDRANT
 (STONE DRAIN) SHALL BE
 8" x 8" x 16" SOLID CONCRETE BLOCKS.
 (SEE FIGURE #5A FOR LOCATIONS)

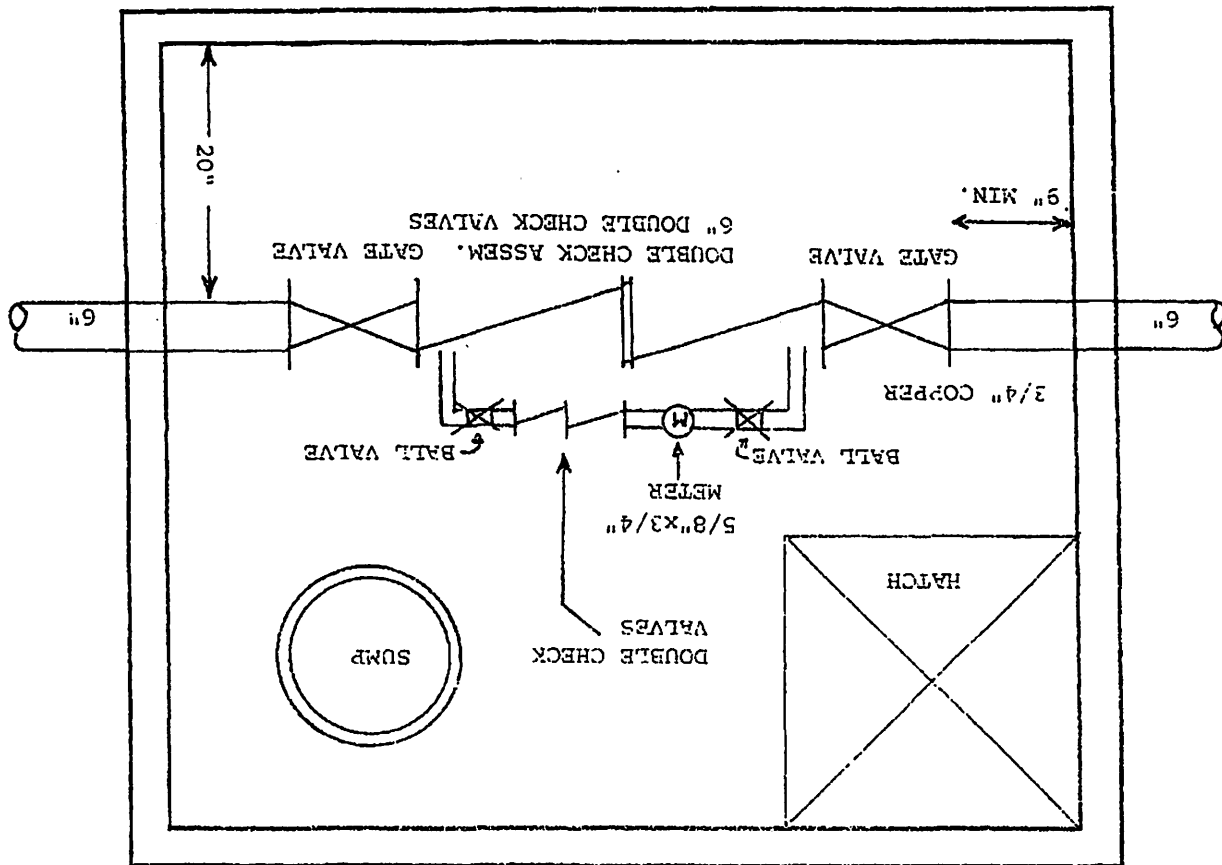


AMERICAN
 2500 SERIES

B-524-13
 84

FIRE LINE DETECTOR CHECK AND VAULT SPECIFICATIONS

FIGURE #7



DETAILS:

HATCH = 30" x 30" "BILCO" ALUMINUM (MINIMUM SIZE)
 VAULT = 5'w x 7'h CONCRETE VAULT WITH SUMP
 SUMP = 12" DIAMETER x 9" DEEP SUMP HOLE

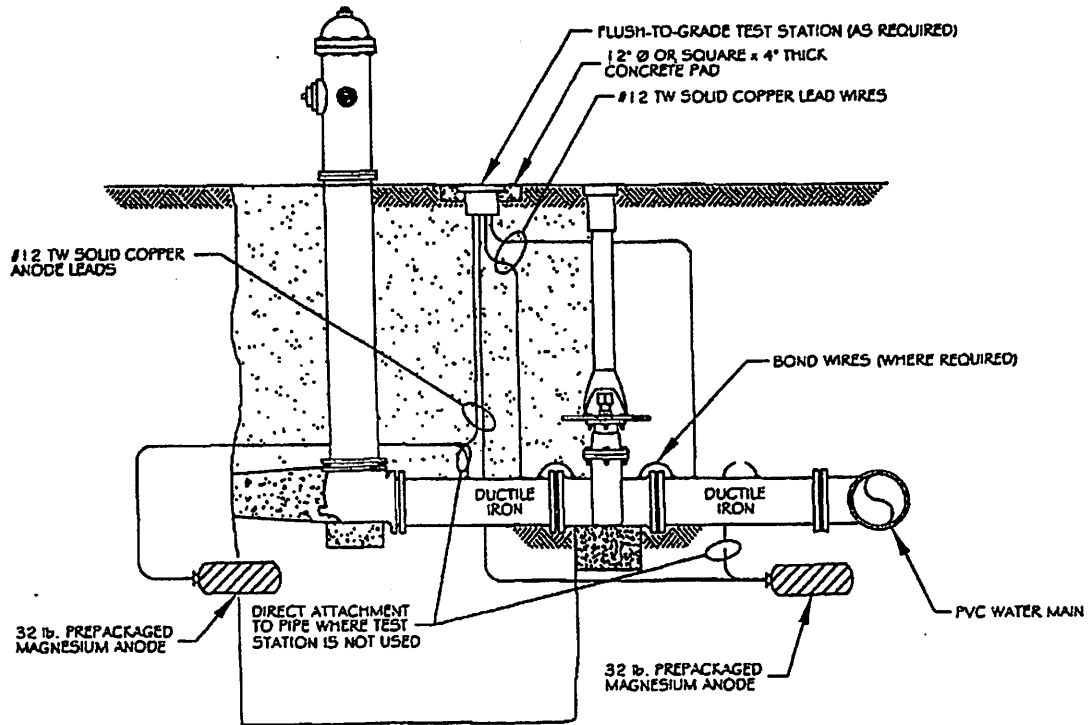
GATE VALVES = 6" KENNEDY w/NON RISING STEMS AND WITH WHEEL HANDLE

DETECTOR CHECK VALVE = AMES 3000SS OR APPROVED EQUAL

SMALL DIAMETER BY-PASS METER: ~~INVERTING~~ METER w/BCR REGISTER & IRON EXT
 SMALL DIAMETER BY-PASS BALL VALVES: FULL STAINLESS STEEL w/HANDLES

SENSUS

FIGURE #11



FOR DUCTILE IRON PIPE ADD ADDITIONAL ANODES TO TEE AND PIPING AS SPECIFIED

THIS DESIGN DRAWING IS NOT APPLICABLE FOR USE AS STANDARD CORROSION CONTROL PROCEDURES FOR OTHER PROJECTS DUE TO VARIABLE CONDITIONS AT OTHER SITES. NEITHER THIS DESIGN NOR ANY PART THEREOF MAY BE DUPLICATED IN ANY WAY FOR OTHER PROJECTS, EXCEPT BY WRITTEN AGREEMENT WITH CORRPRO COMPANIES INC.

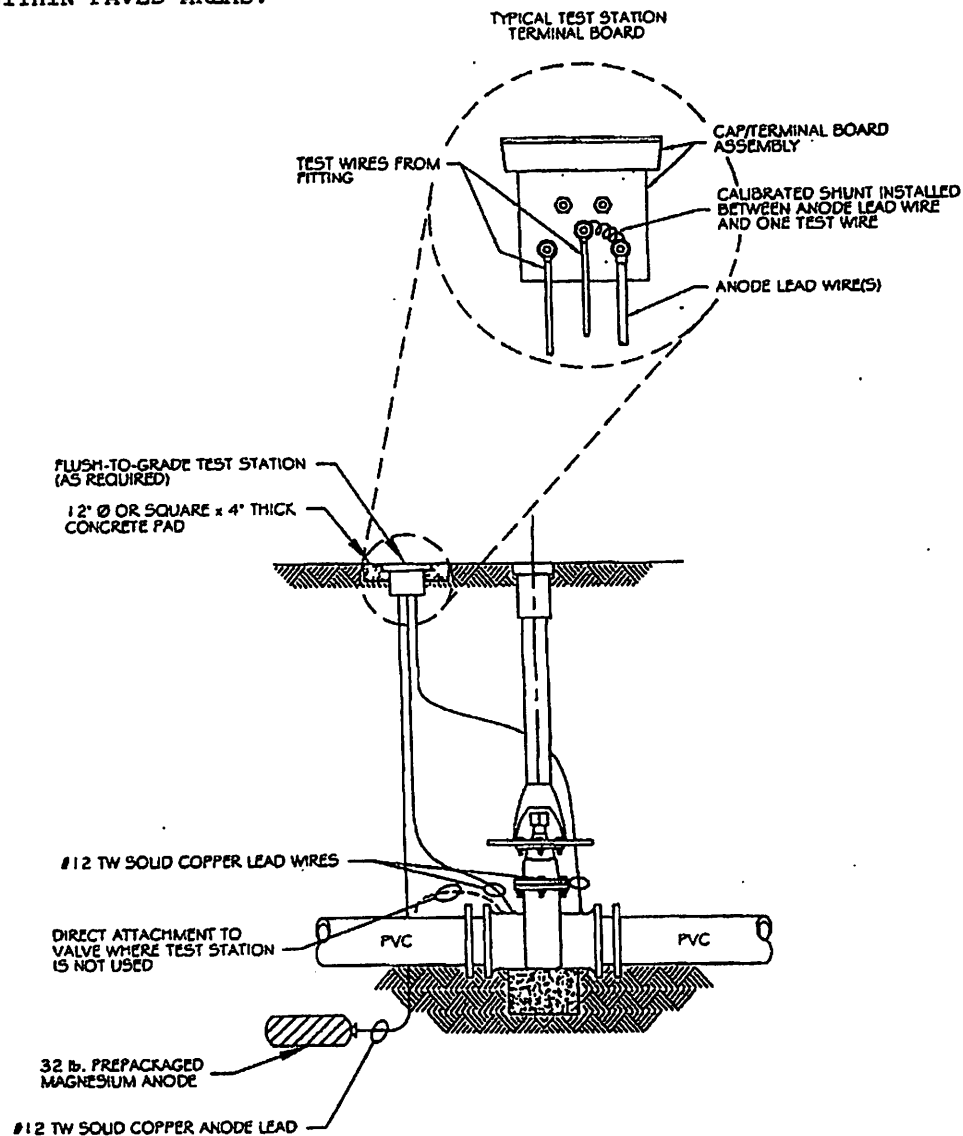
NO.	DATE	BY	REVISION

 CORRPRO COMPANIES, INC. 1055 West Smith Road Medina, Ohio 44258 (330) 723-5082	DRAWN BY	J.W.P.
	DESIGNED BY	D.F.Z.
	DATE	8-29-02
	SCALE	NONE
	SHEET	1 OF 1
	DWG. No.	A1-31957-T

TYPICAL HYDRANT
ASSEMBLY
WITH MAGNESIUM ANODES

FIGURE #12

NOTE: TEST STATIONS SHALL NOT BE LOCATED WITHIN PAVED AREAS.



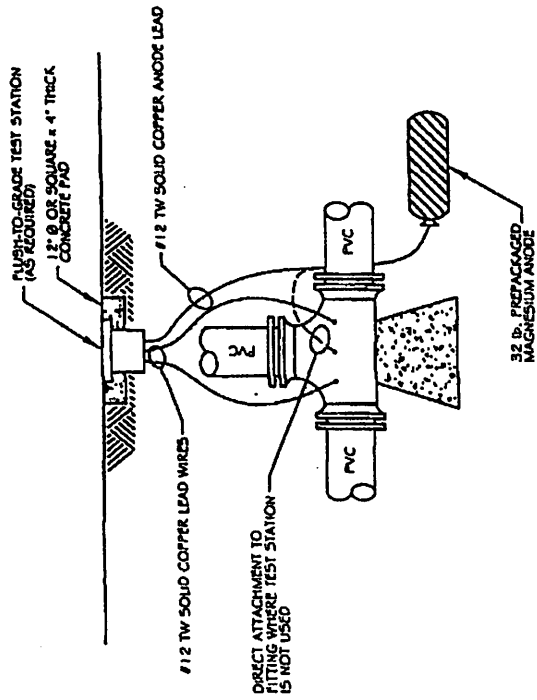
FOR DUCTILE IRON PIPE ADD ADDITIONAL ANODES TO VALVE AND PIPING AS SPECIFIED

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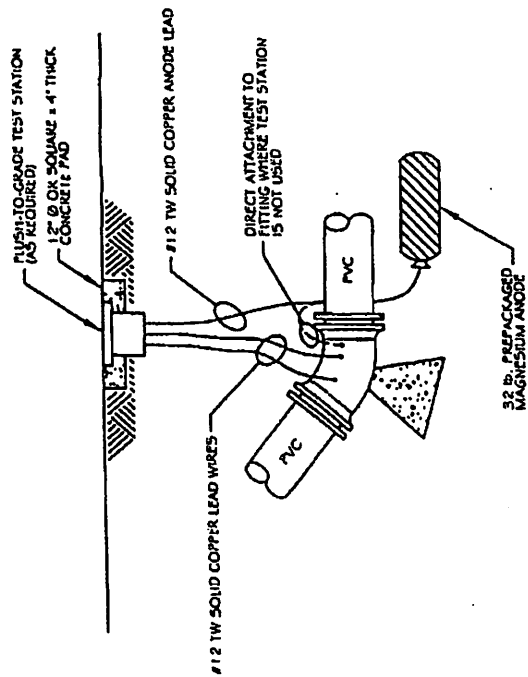
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DRAWN BY			J.W.P.
DESIGNED BY			D.F.Z.
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SHEET			1 OF 1
DWG. No.			A1-31958-T

TYPICAL GATE VALVE
WITH
MAGNESIUM ANODE

FIGURE #13



TYPICAL PIPE TEE



TYPICAL PIPE BEND

FOR DUCTILE IRON PIPE ADD ADDITIONAL
ANODES TO PIPING AS SPECIFIED

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DESIGNED BY D.F.Z.

DATE 8-29-02

SCALE NONE

SHEET 1 OF 1

DWG. No. A1-31959-T

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1055 West Smith Road
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(330) 723-5082



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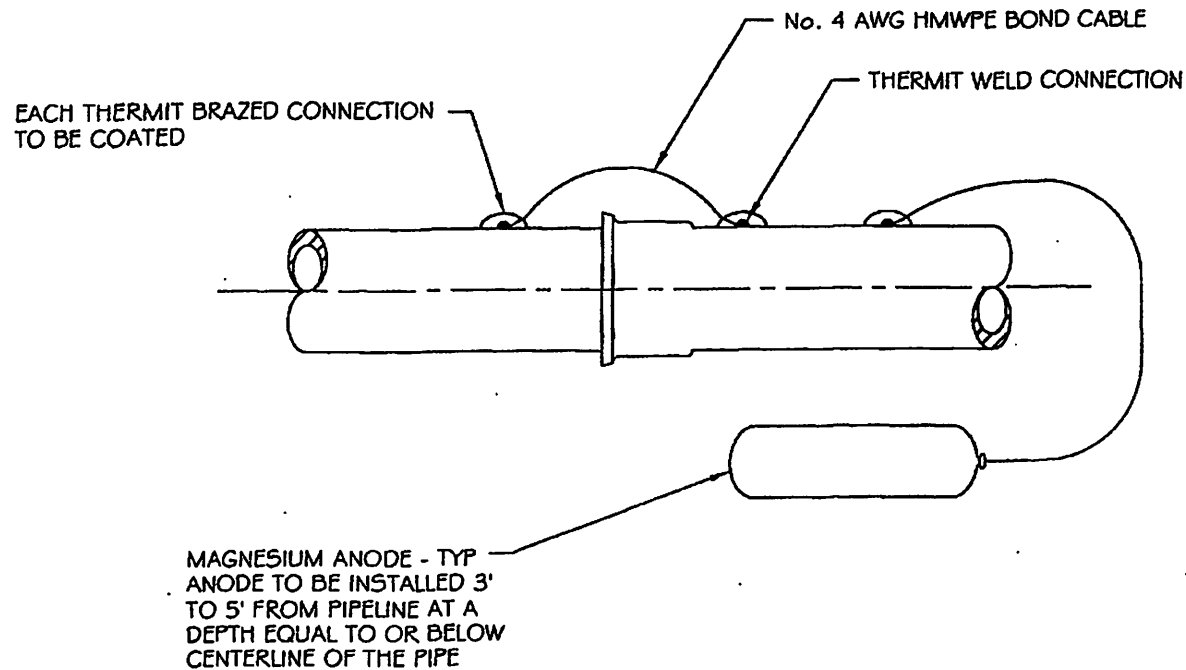


FIGURE #14

NO.	DATE	BY	REVISION



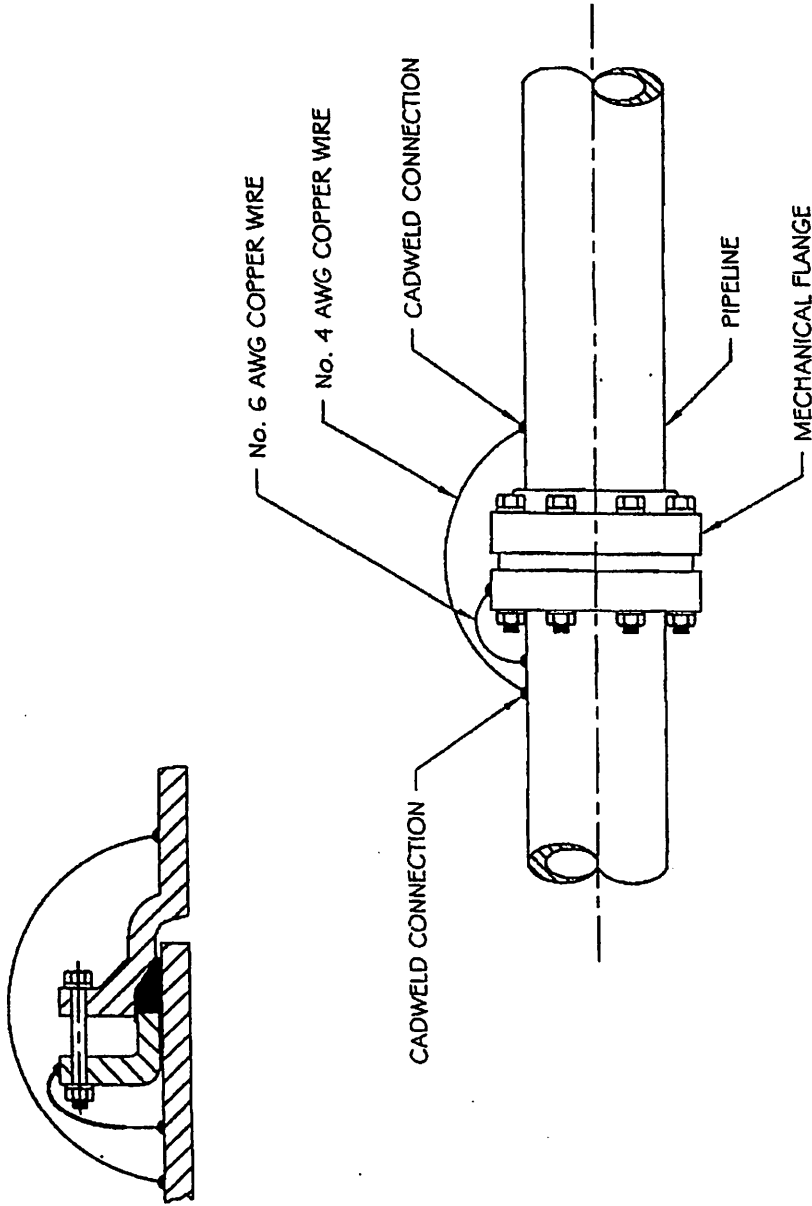
CORRPRO COMPANIES, INC.
 1055 West Smith Road
 Medina, Ohio 44258
 (330) 723-5082

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DESIGNED BY	D.A.D.
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DWG. No.	A1-29750-T

TYPICAL
 BONDING AND ANODE INSTALLATION
 AT PUSH JOINT

FIGURE #15



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DWG. No.	24124-T

REVISION

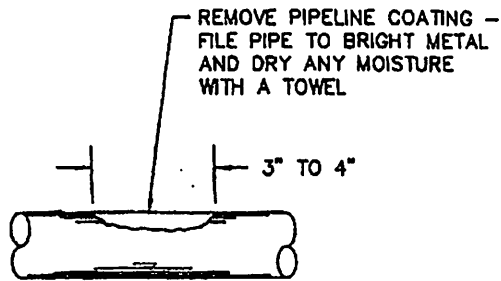
NO. DATE BY

CORRPRO COMPANIES, INC.
 1055 West Smith Road
 Medina, Ohio 44258
 (330) 723-5082

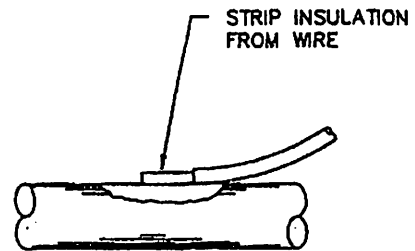


CATHODIC PROTECTION SYSTEM
 TYPICAL METHOD
 OF BONDING ACROSS
 MECHANICAL FLANGE

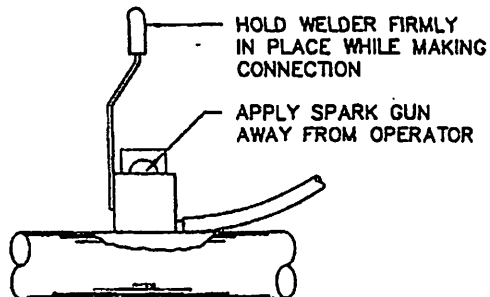
FIGURE #16



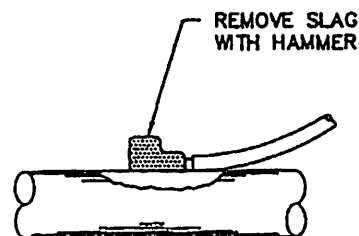
STEP 1



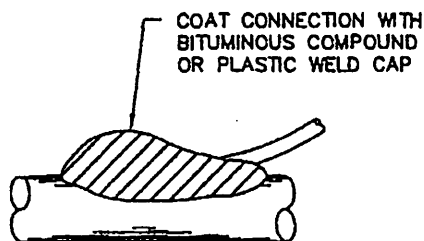
STEP 2 **



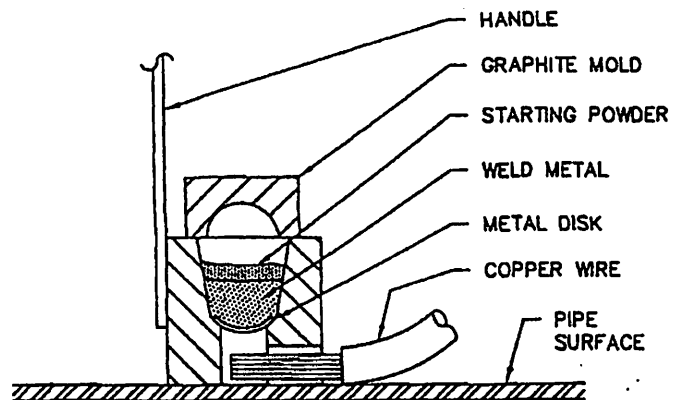
STEP 3



STEP 4



STEP 5



** WHEN No. 14 To No. 10 AWG SOLID WIRE IS USED, IT WILL BE NECESSARY TO INSTALL A COPPER SLEEVE (CAB-133-1H) OVER THE BARE SECTION OF WIRE BEFORE THE CONNECTION IS ATTEMPTED. WIRE SHOULD PROTRUDE 1/8" BEYOND END OF SLEEVE.

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NO.	DATE	BY	REVISION
 CORRPRO COMPANIES, INC. 1055 West Smith Road Medina, Ohio 44258 (330) 723-5082			
DRAWN BY A.M.S. DESIGNED BY DATE 6-4-74 SCALE NONE SHEET 1 OF 2 DWG. No. 10634-T			

PROCEDURE FOR MAKING CADWELD TYPE "HA" CONNECTIONS

FIGURE #17

GENERAL WELDING PROCEDURE TYPE HA

1. WHEN USING No. 14 To No. 10 AWG SOLID WIRE, IT WILL BE NECESSARY TO INSTALL A COPPER SLEEVE (CAB-133-1H) OVER THE BARE END OF THE WIRE AND CRIMP IN PLACE BEFORE ATTEMPTING TO MAKE THE CONNECTION. FOR No. 10 AWG STRANDED WIRE, USE CAB-133-1K. THE WIRE SHOULD PROTRUDE AT LEAST 1/8" FROM THE END OF THE SLEEVE.
2. INSERT THE CONDUCTOR INTO MOLD NOTING ANY SPECIAL INFORMATION UNDER "POSITIONING" FOR APPLICATION TYPE IN THE MANUFACTURERS INSTRUCTIONS PACKAGED WITH THE WELDER.
3. INSERT STEEL DISK IN BOTTOM OF CAVITY INSIDE MOLD. DUMP THE WELD METAL INTO MOLD BEING CAREFUL NOT TO UPSET THE STEEL DISK. TAP THE BOTTOM OF THE TUBE TO LOOSEN ALL THE STARTING POWDER AND SPREAD IT EVENLY OVER THE WELD METAL. PLACE A SMALL AMOUNT OF STARTING POWDER ON THE TOP EDGE OF MOLD UNDER COVER OPENING FOR EASY IGNITION.
4. CLOSE COVER AND IGNITE WITH THE FLINT GUN. MOVE FLINT GUN AWAY QUICKLY TO PREVENT FOULING. IF FLINT GUN SHOULD BECOME FOULED, SOAK IT IN HOUSEHOLD AMMONIA.
5. AFTER IGNITION, HOLD THE WELDER IN PLACE FOR A MOMENT TO ALLOW THE WELD TO SOLIDIFY. AFTER THE WELD HAS COOLED, REMOVE THE SLAG WITH A CHIPPING HAMMER OR WIRE BRUSH.
6. COAT THE CONNECTION AND THE ENTIRE PREPARED SURFACE WITH BITUMASTIC COMPOUND (KOPPERS No. 50 OR EQUAL) OR PLASTIC WELD CAPS.
7. REMOVE ALL SLAG FROM THE WELDER BEFORE MAKING THE NEXT WELD. CLEAN THE COVER EVERY 6 TO 10 WELDS.
8. WET OR DAMP MOLDS WILL PRODUCE POROUS WELDS. MOLDS MUST BE DRIED OUT BEFORE ATTEMPTING TO WELD.
9. CONNECTIONS ARE TO BE PLACED A MINIMUM OF 3 INCHES APART. UNSUCCESSFUL WELDS ARE TO BE ABANDONED AND MOVED TO ANOTHER PREPARED SURFACE NOT LESS THAN 3 INCHES AWAY.

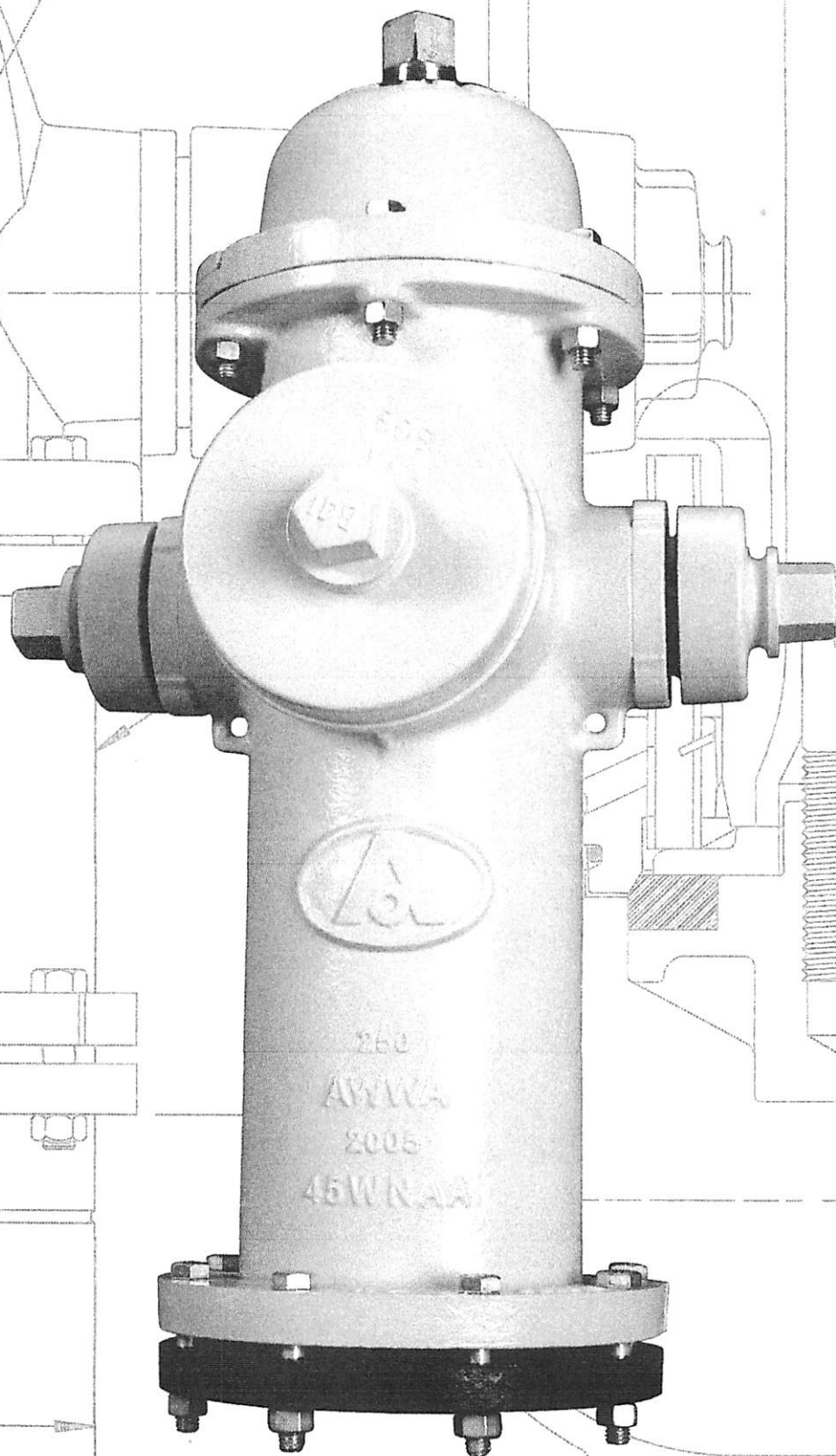
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			DESIGNED BY
			DATE 6-4-74
			SCALE NONE
			SHEET 2 OF 2
			DWG. No. 10634-T

**PROCEDURE FOR MAKING
CADWELD TYPE "HA"
CONNECTIONS**



AMERICAN
FLOW CONTROL

AMERICAN-DARLING 5-1/4" B-84-B-5 FIRE HYDRANT





AMERICAN
FLOW CONTROL

2" - 12" SERIES 2500 RESILIENT WEDGE GATE VALVE

