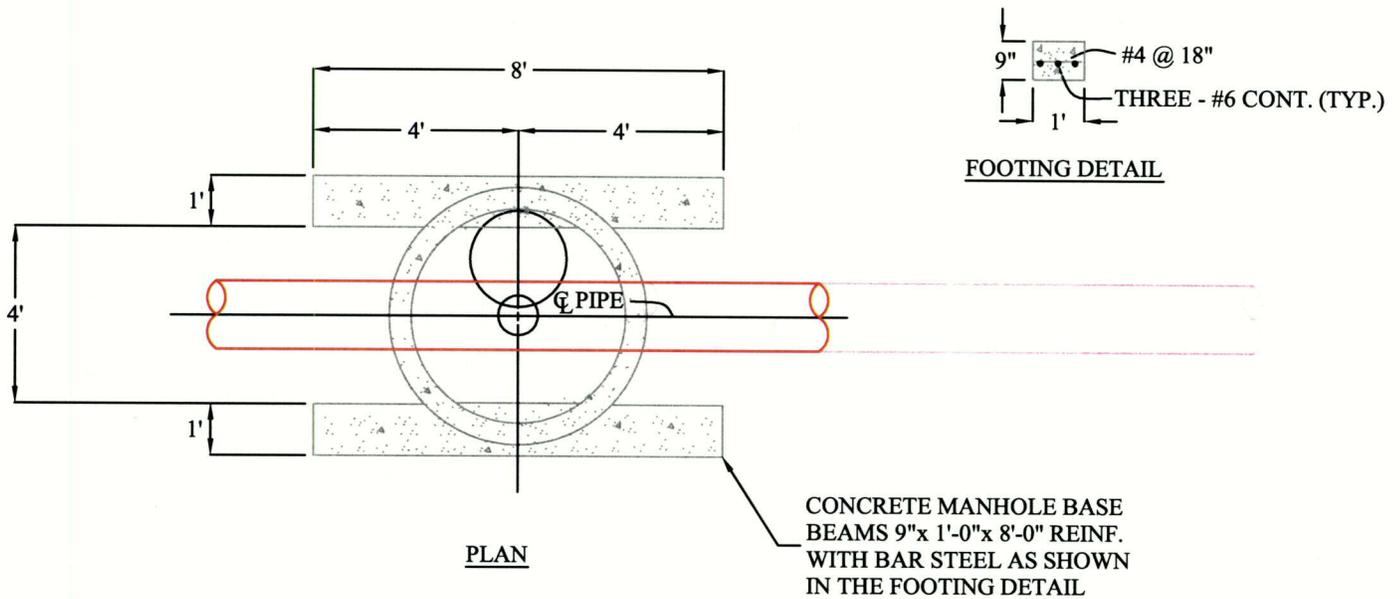


NOTES:

1. 1" AIR VALVE SHALL BE INSTALLED ON 6" - 10" MAINS AT HIGH POINTS
2. 2" AIR VALVE SHALL BE INSTALLED ON ALL WATER MAIN 12" AND LARGER AT EACH HIGH POINT ON THE MAIN
3. INSTALLATION SHALL INCLUDE 3/4" OR 2" GATE VALVE BETWEEN THE SADDLE AND AIR VALVE
4. AIR VALVE SHALL BE INSTALLED IN PRECAST CONCRETE MANHOLE OR A VAULT



FOOTING DETAIL



Public Works
Department

**AIR & VACUUM
RELIEF VALVE DETAIL**

Scale: N.T.S.

WA-1

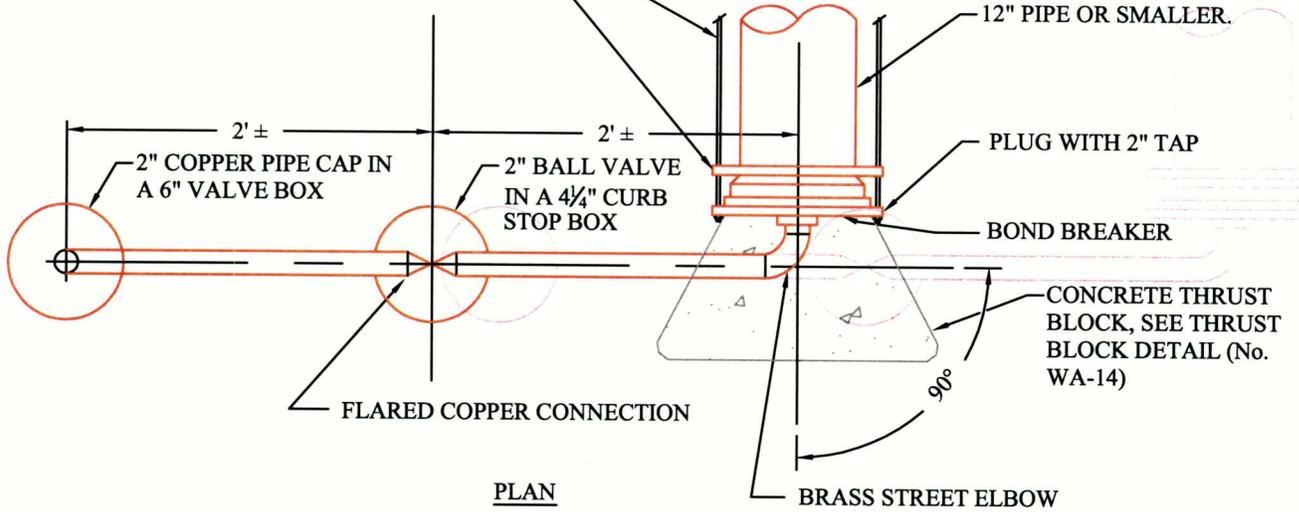
April 2004

NOTE:

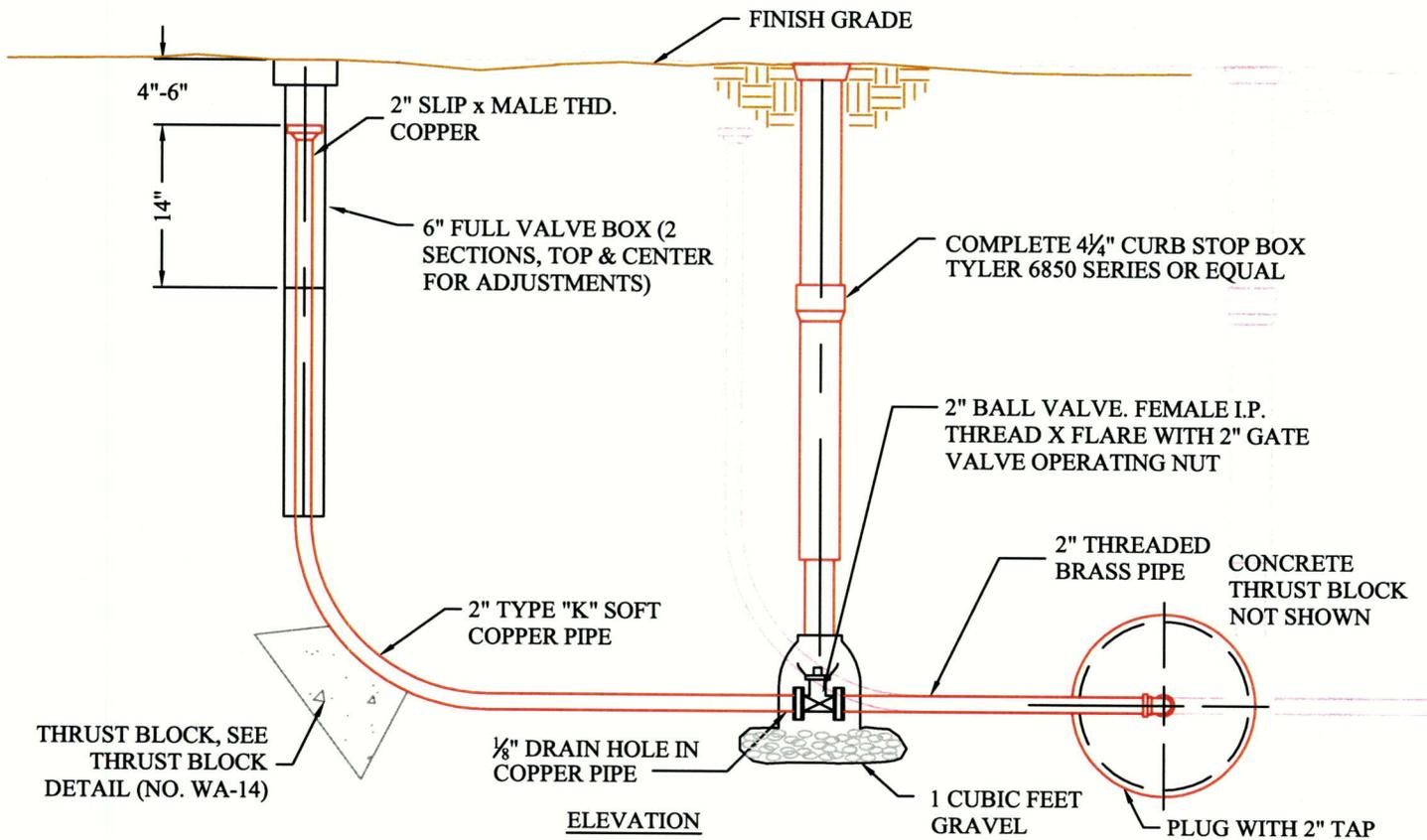
PLUG SHALL BE MECHANICALLY RESTRAINED:

A - FOR SLEEVE TYPE MACHINED
COUPLING PIPE TIE BACK TO NEXT
COUPLING

B - FOR BELL AND SPIGOT PIPE TIE TO BELL



PLAN



ELEVATION



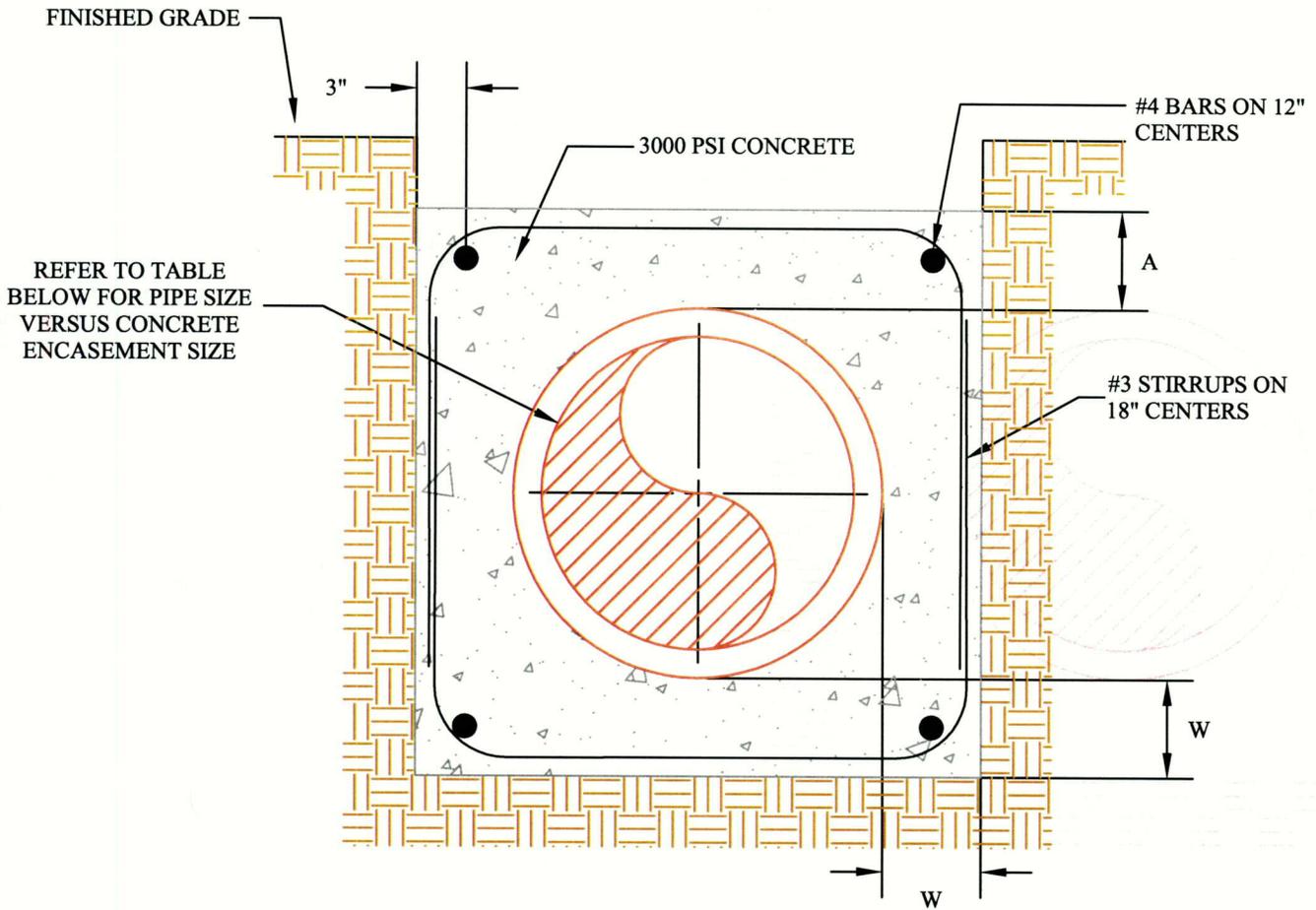
Public Works
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BLOWOFF ASSEMBLY INSTALLATION DETAIL FOR 12" & SMALLER PIPE

Scale: N.T.S.

WA-2

April 2004



| PIPE SIZE | W | A |
|-----------|----|----|
| 6" | 4" | 4" |
| 8" | 4" | 4" |
| 10" | 4" | 4" |
| 12" | 4" | 4" |
| 15" | 4" | 4" |
| 16" | 4" | 4" |
| 18" | 5" | 5" |
| 21" | 5" | 5" |
| 24" + | 6" | 6" |

NOTE:
REBAR & STIRRUPS SHALL BE EPOXY COATED IF THE ENCASEMENT IS UNDER A STREAM OR DRAINAGEWAY AND IF THE ENCASEMENT IS IN HIGH GROUND WATER



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CONCRETE ENCASEMENT DETAIL

Scale: N.T.S.

WA-3

April 2004

FINISHED GRADE

WATER VALVE BOX, SEE WATER VALVE BOX DETAIL (No. WA-19)

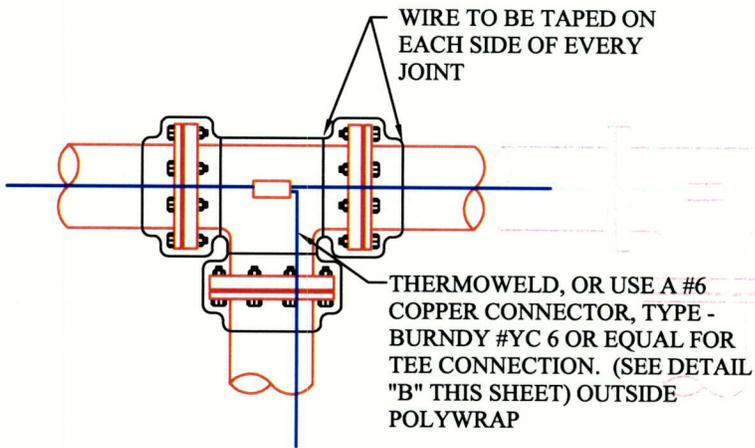
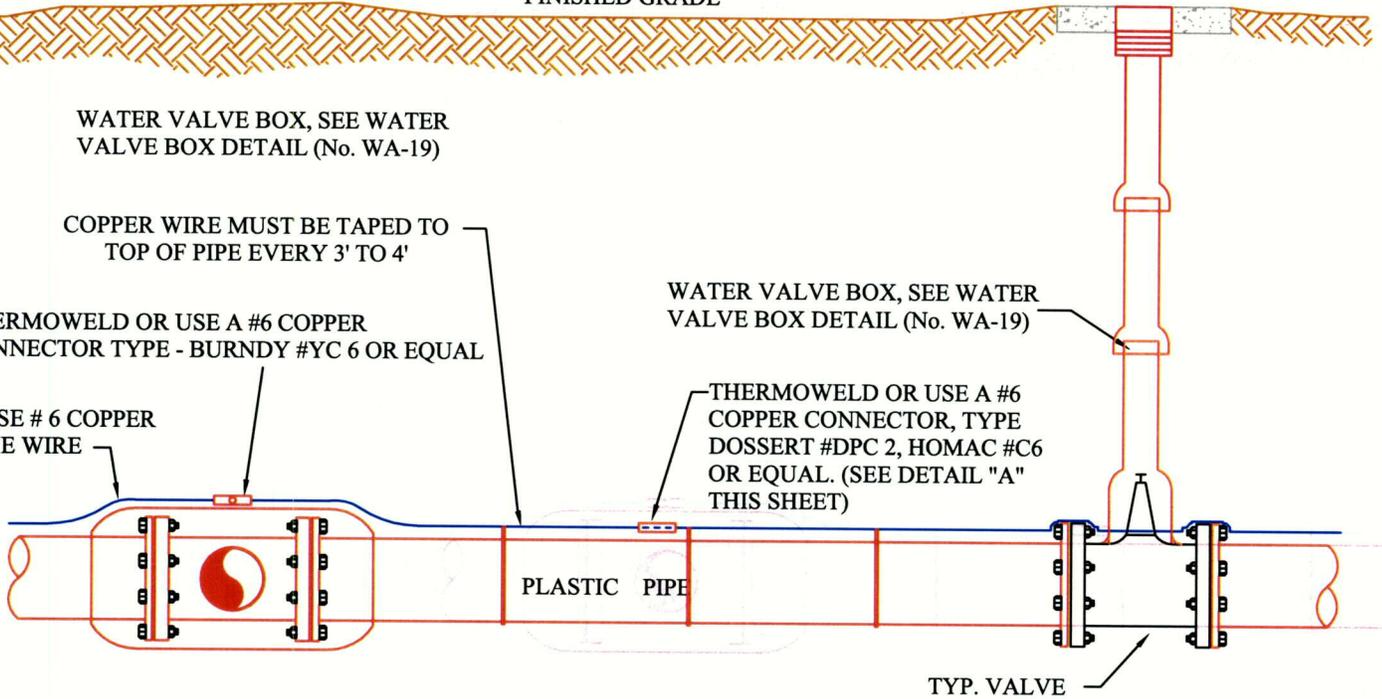
COPPER WIRE MUST BE TAPED TO TOP OF PIPE EVERY 3' TO 4'

THERMOWELD OR USE A #6 COPPER CONNECTOR TYPE - BURNDY #YC 6 OR EQUAL

WATER VALVE BOX, SEE WATER VALVE BOX DETAIL (No. WA-19)

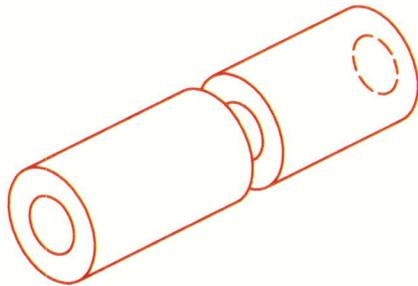
USE # 6 COPPER TIE WIRE

THERMOWELD OR USE A #6 COPPER CONNECTOR, TYPE DOSSERT #DPC 2, HOMAC #C6 OR EQUAL. (SEE DETAIL "A" THIS SHEET)

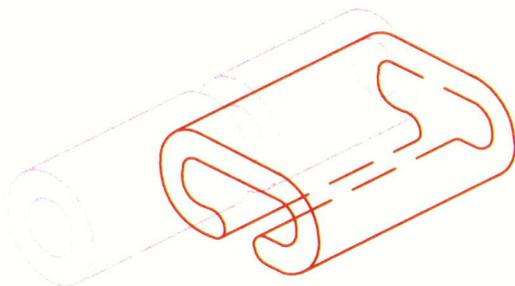


NOTE:

- 1) STRIP WIRE CASING TO EXPOSE WIRE FOR PROPER CONDUCTION
- 2) 12 GAUGE SOLID OR STRANDED WITH 3M DBY CONNECTORS
- 3) DAYLIGHT TRACER WIRE IN TEST BOXES BEHIND NEAREST FIRE HYDRANT (SEE DETAIL WA-6)



DETAIL "A"



DETAIL "B"



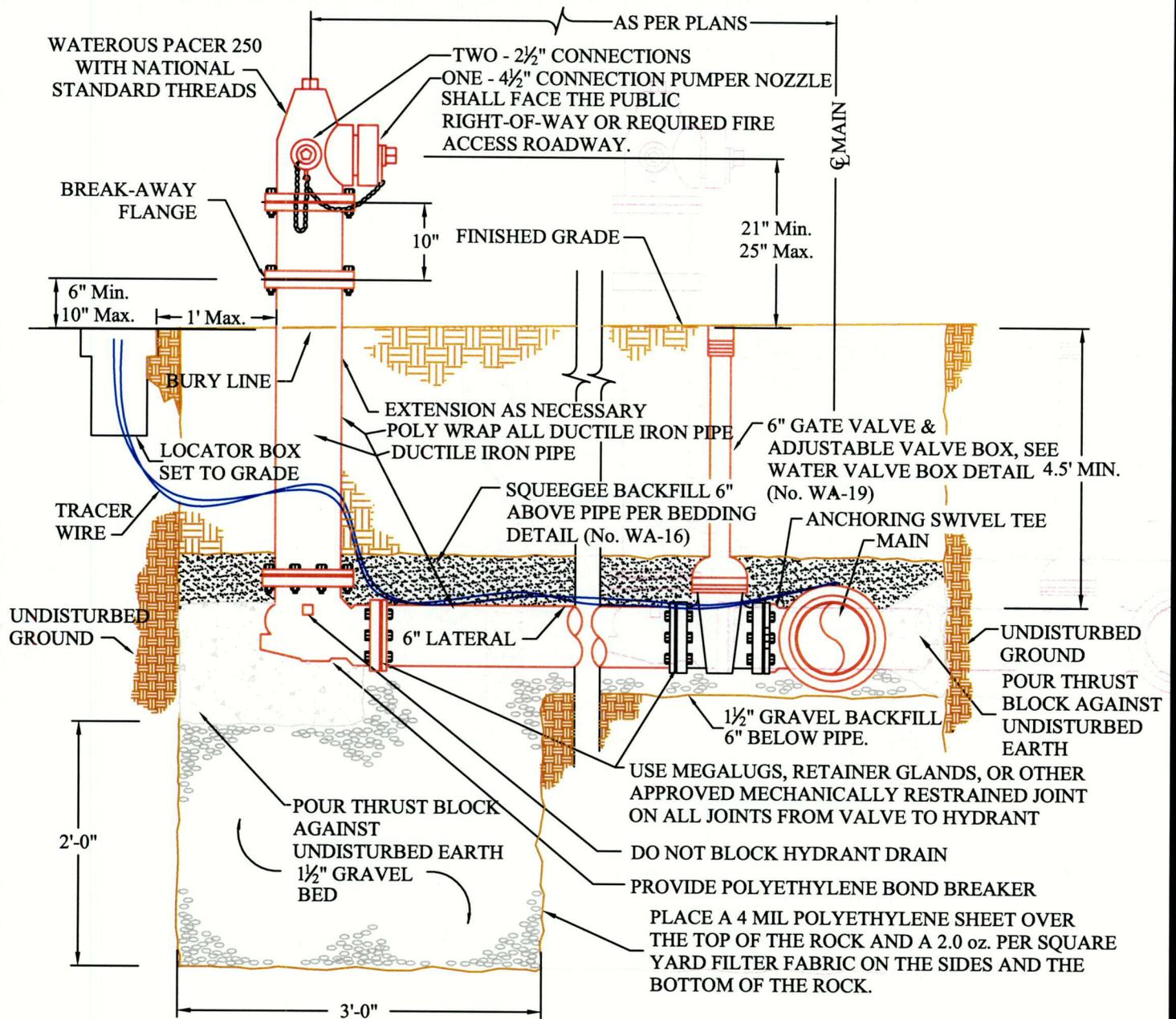
Public Works
Department

**COPPER TRACER
WIRE DETAIL
ON PVC PIPE**

Scale: N.T.S.

WA-5

April 2004



NOTES:

1. NOT FOR INSTALLATION IN ROADWAYS, DRIVEWAYS, OR PARKING AREAS
2. STANDARD COLOR WILL BE DES MOINES SAFETY YELLOW PRODUCT #6162
3. HEIGHT TO CENTER OF STEAMER - 21" MIN. to 25" MAX
4. PROVIDE 5' RADIUS CLEAR ZONE AROUND ALL HYDRANTS
5. DO NOT PLACE ANY HYDRANTS AT THE END OF CUL-DE-SACS
6. 4.5' MIN. DEPTH OF COVER FROM FINISHED GRADE TO TOP OF PIPE
7. ALL JOINTS FROM MAIN TO HYDRANT SHALL BE MECHANICALLY RESTRAINED
8. ALL PIPE AND FITTINGS FROM MAIN TO FIRE HYDRANT SHALL BE DUCTILE IRON PIPE
9. TRACER WIRE TO TERMINATE @ LOCATOR BOX LOCATED AT REAR OF HYDRANT
10. LOCATOR BOX TO BE SETBACK A MAX. OF 1' FROM THE REAR OF THE HYDRANT
11. ENSURE THAT THRUST BLOCK DOES NOT BLOCK WEEP HOLE FOR DRAINAGE
12. SEE THRUST BLOCK DETAIL (No. WA-14)



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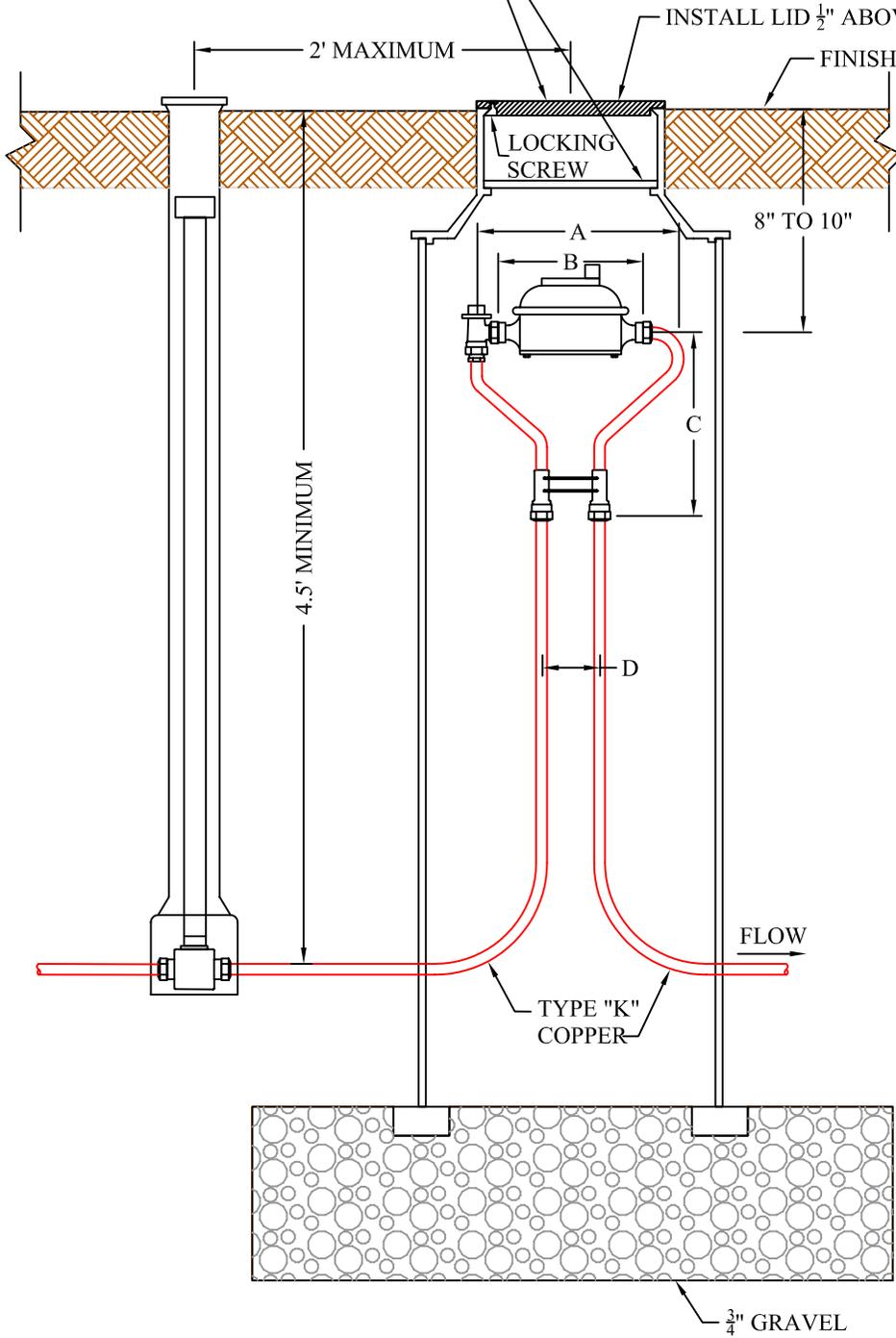
**FIRE HYDRANT DETAIL
WATEROUS PACER 250
WITH NATIONAL STANDARD THREADS**

Scale: N.T.S.

WA-6

April 2004

PLASTIC TOP LID W / RUBBER FROST COVER



NOTES:

1. NOT FOR INSTALLATION IN ROADWAYS, DRIVEWAYS, OR PARKING AREAS
2. IF SURFACE IS NOT TO FINAL GRADE AT TIME OF INSTALLATION OF METER LID SHALL BE 2" ABOVE GRADE
3. METER YOKE SHALL BE LOCATED NOT LOWER THAN 12" BELOW THE TOP LID. IN THE EVENT THE METER PIT IS ADJUSTED TO FINAL GRADE, OWNER SHALL ENSURE THAT THE YOKE BE RAISED/LOWER AS REQUIRED
4. METER TO BE LOCATED A MINIMUM OF 2' FROM THE CURB STOP AND WITHIN THE UTILITY EASEMENT ADJACENT TO FRONT SIDEWALK, UNLESS OTHERWISE APPROVED BY THE DIRECTOR OF PUBLIC WORKS
5. METER PIT SHALL BE PLACED ON FREE-DRAINING GRAVEL BASE. CONCRETE SHALL NOT BE PERMITTED
6. METER PIT SHALL BE 20" INSIDE DIAMETER AND 48" DEEP DUROPIPE BITUMINIZED FIBER BY METRO-STATES PLASTICS OR APPROVED EQUAL
7. SPRINKLER SYSTEM CONNECTIONS SHALL BE LOCATED A MINIMUM OF 5' DOWNSTREAM FROM THE METER PIT. UNDER NO CIRCUMSTANCES ARE SPRINKLER CONNECTIONS PERMITTED IN THE METER PIT
8. NO STRUCTURES ARE TO BE LOCATED WITHIN 4' OF METER PIT. LANDSCAPING IS PERMITTED, HOWEVER ACCESS TO THE METER PIT MUST BE MAINTAINED
9. IF PRESSURE REDUCING VALVE IS REQUIRED BY THE PLUMBING CODE, IT SHALL BE INSTALLED INSIDE THE BUILDING IMMEDIATELY FOLLOWING THE MAIN SHUT OFF VALVE
10. SERVICE BOX FOR CURB STOP SHALL BE OF THE MUELLER TYPE WITH A COMBINATION LID AND PENTAGON PLUG (MODEL #H-10334) AND AN EXTENSION TYPE CURB BOX WITH ARCH PATTERN BASE AND SHUT-OFF ROD
11. CURB STOPS SHALL BE STRAIGHT AND CLEAN OF ANY DEBRIS

| METER SIZE | A | B | C | D |
|------------|-------------|------------|-------------|--------|
| 3/4-INCH | 14 1/4-INCH | 7 1/2-INCH | 8 5/16-INCH | 5-INCH |



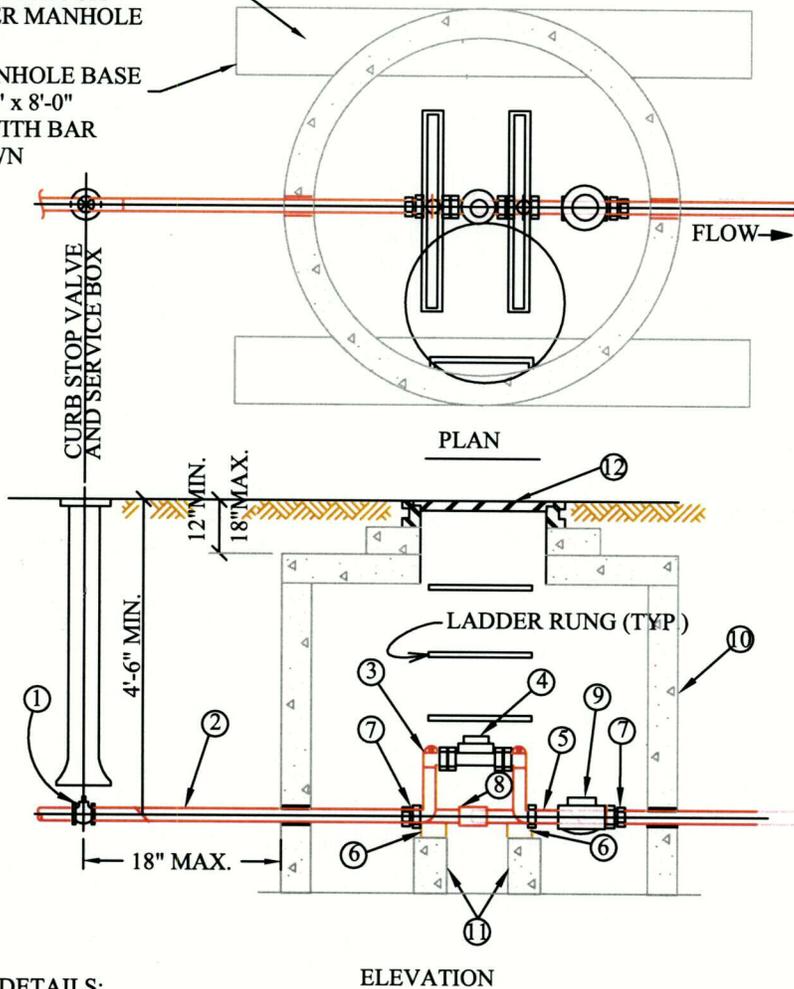
Public Works
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METER SETTING DETAIL
FOR 3/4" AND 1" METERS

CONCRETE FOOTINGS SHALL REST ON A 5" THICK LAYER OF 1½" CRUSHED ROCK PLACED UNDER MANHOLE

CONCRETE MANHOLE BASE BEAMS 9" x 1'-0" x 8'-0" REINFORCED WITH BAR STEEL AS SHOWN

NO ADDITIONAL TAPS OR CONNECTIONS ALLOWED IN PIT

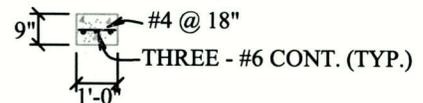


NOTES

- 1- MANHOLE BASE BEAMS SHALL BE REQUIRED
- 2- A 48" Ø MANHOLE PIT WILL ACCOMODATE 1½" AND 2" SPLIT CASE METERS
- 3- JOINTS INSIDE METER VAULT SHALL BE EITHER THREADED OR SOLDERED WITH 95-5 TINANTIMONY SOLDER. IN ACCORDANCE WITH ASTM B32
- 4- NO CONCRETE TO BE LAID IN FLOOR OF METER MANHOLE
- 5- NO CONNECTIONS OR CHANGES IN PIPE DIAMETER SHALL BE MADE IN THE METER PIT OR IN THE DISTANCE OF 5' BEYOND THE METER PIT ON THE OUTLET SIDE. OTHER THAN THE APPROPRIATE COPPER SETTER
- 6- THE DISTANCE BETWEEN RUNGS, CLEATS, AND STEPS SHALL NOT EXCEED 12" AND SHALL BE UNIFORM THROUGHOUT THE LENGTH OF THE LADDER
- 7- VAULT WALL PENETRATIONS MUST BE GROUTED WITH CONCRETE
- 8- COPPERSETTER OR COPPER METER YOKE FOR 1½" AND 2" WILL BE NO HIGHER THAN 12" WITH A BY-PASS AND BOOT FOR BY-PASS PROVIDED WITH SETTER
- 9- THE SERVICE LINE THROUGH AND ON BOTH SIDES OF THE METER PIT MUST BE OF THE SAME MATERIAL
- 10- MANHOLE RING AND COVERS SHALL BE TO CITY OF EVANS STANDARDS
- 11- METER PITS AND COVERS SHALL BE TO CITY OF EVANS STANDARDS

DETAILS:

- ① CURB STOP
- ② TYPE K COPPER TUBING
- ③ 12" COPPER SETTER/METER YOKE
- ④ METER UNIT
- ⑤ 3" NIPPLE BETWEEN COPPER SETTER AND CHECK VALVE
- ⑥ PRESSURE TREATED WOOD BLOCKING 1" THICK
- ⑦ MECH. IRON PIPE TO FLARE COUPLING FROM INLET SIDE OF COPPER SETTER AND OUTLET SIDE OF CHECK VALVE.
- ⑧ BY-PASS WILL BE 1" FOR 1½" COPPER SETTERS AND 1½" OR 1¼" FOR 2" COPPER SETTERS.
- ⑨ CHECK VALVE
- ⑩ 48" CONE MANHOLE WITH 24" LID.
- ⑪ CONCRETE BLOCK SUPPORTS 4" X 4" X 24"
- ⑫ 24" STANDARD RING AND COVER

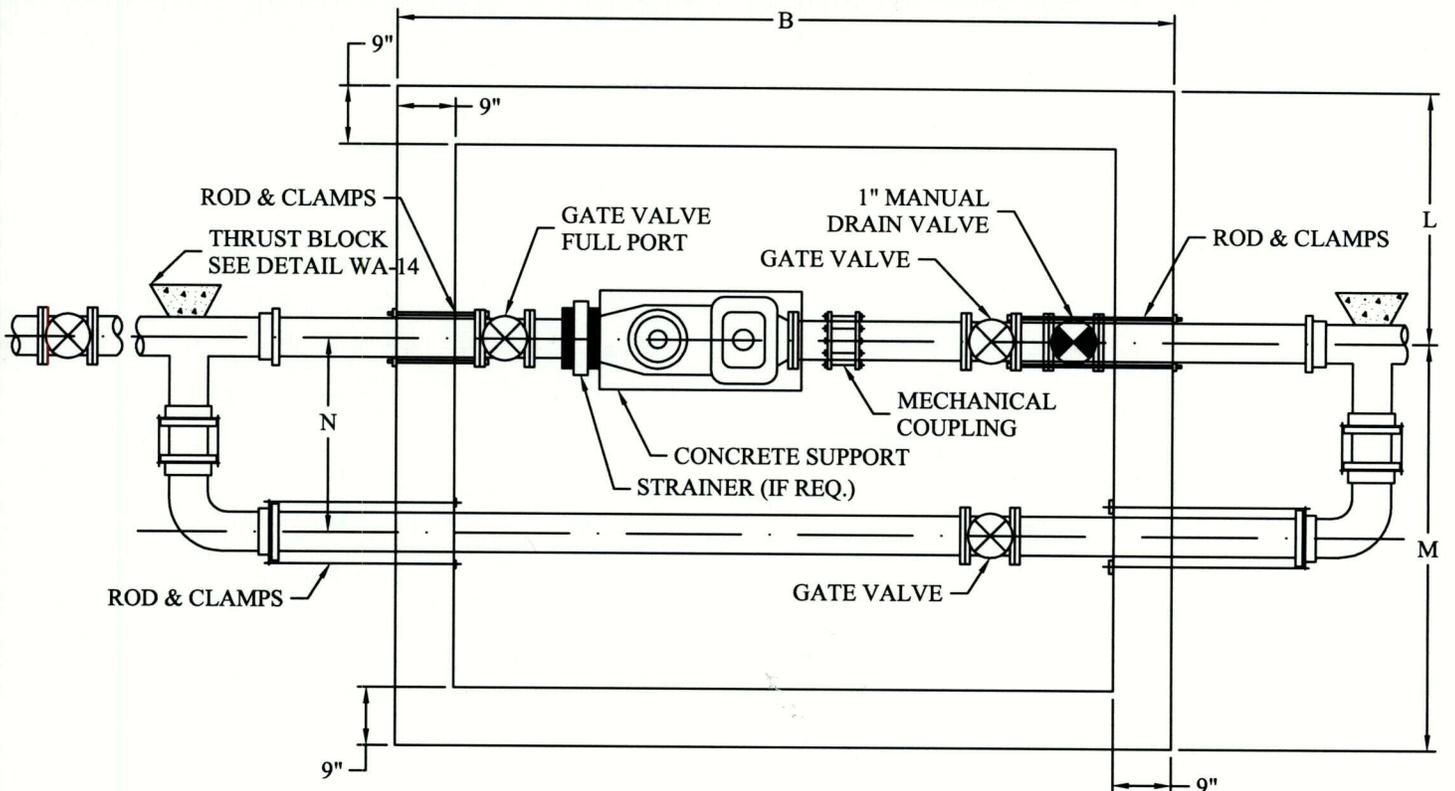


FOOTING DETAIL

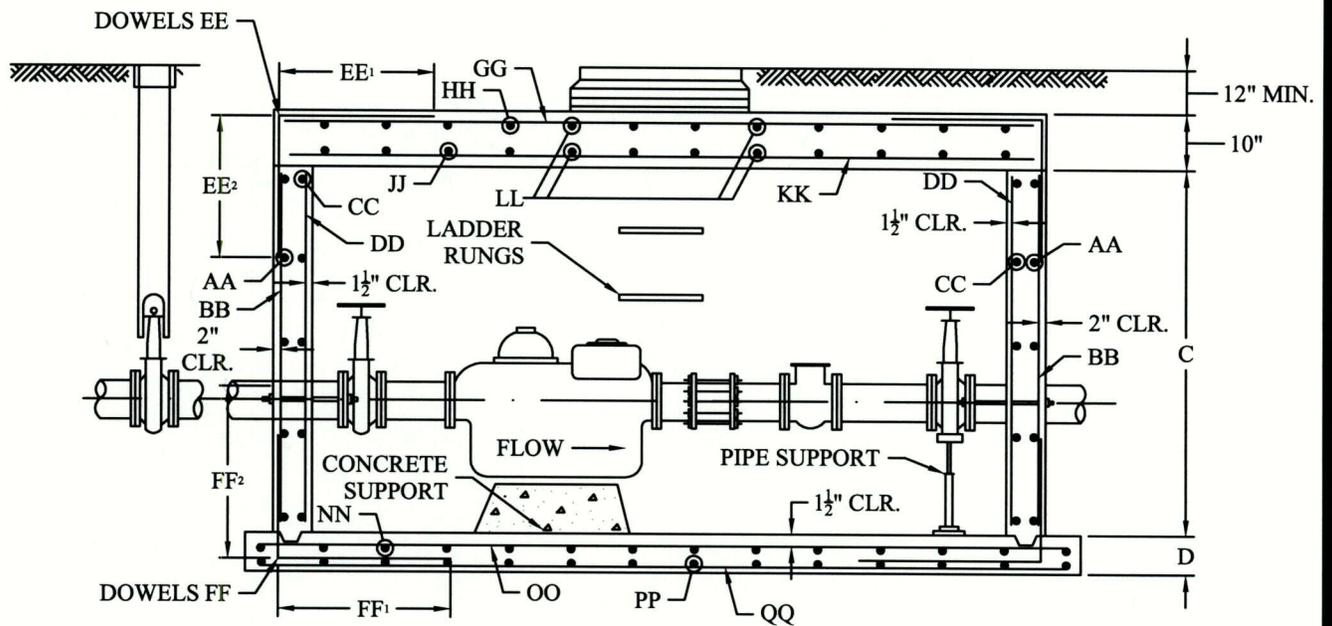


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Department

**METER SETTING DETAIL
FOR 1½" & 2" METER
W/ CHECKING VALVE & BYPASS IN MANHOLE**



PLAN VIEW



SECTION VIEW



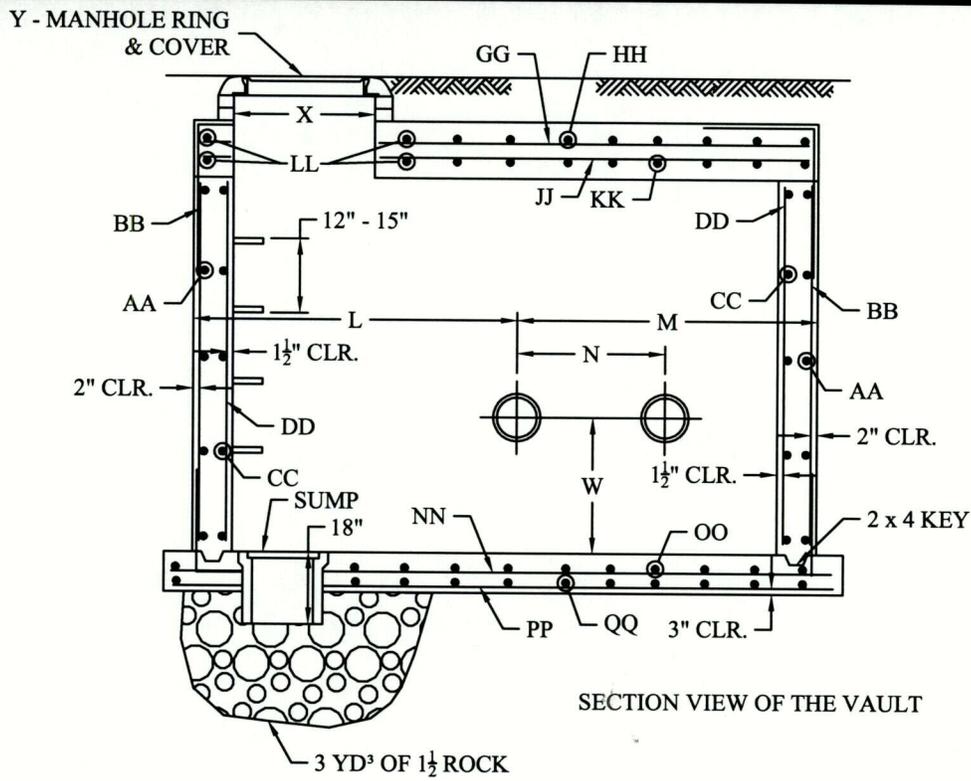
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METER SETTING DETAIL
FOR 3" AND LARGER
SHEET 1 OF 4

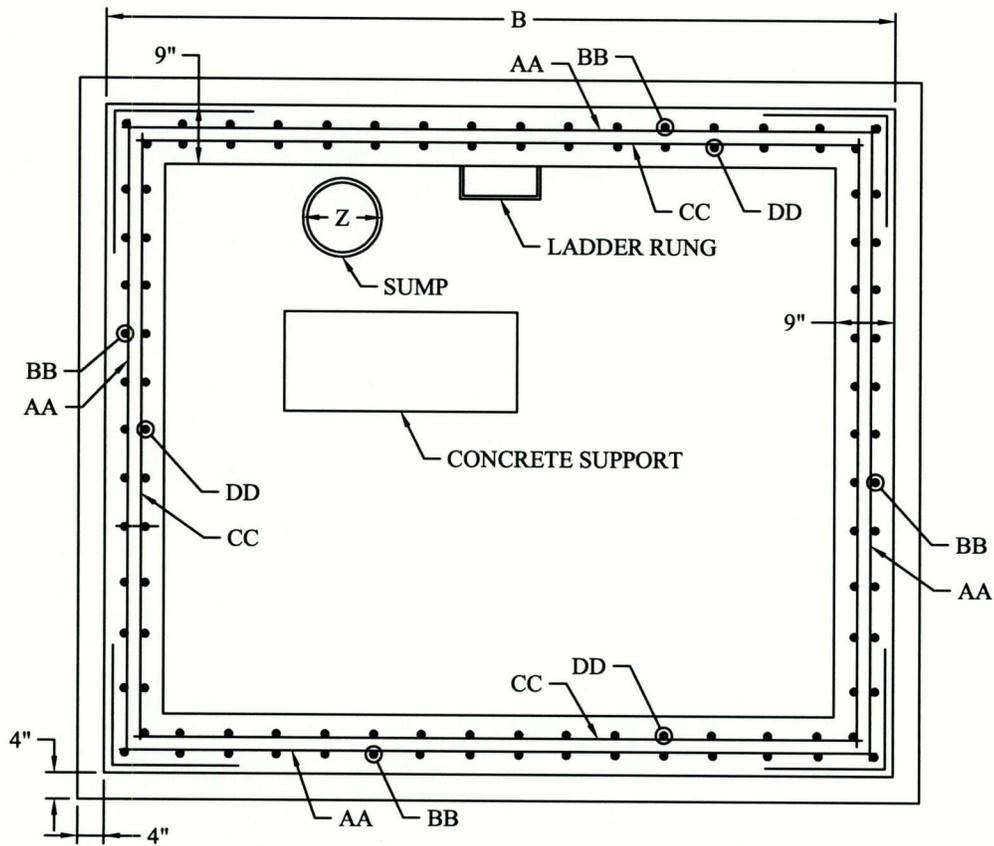
Scale: N.T.S.

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April 2004



SECTION VIEW OF THE VAULT



PLAN VIEW OF THE VAULT



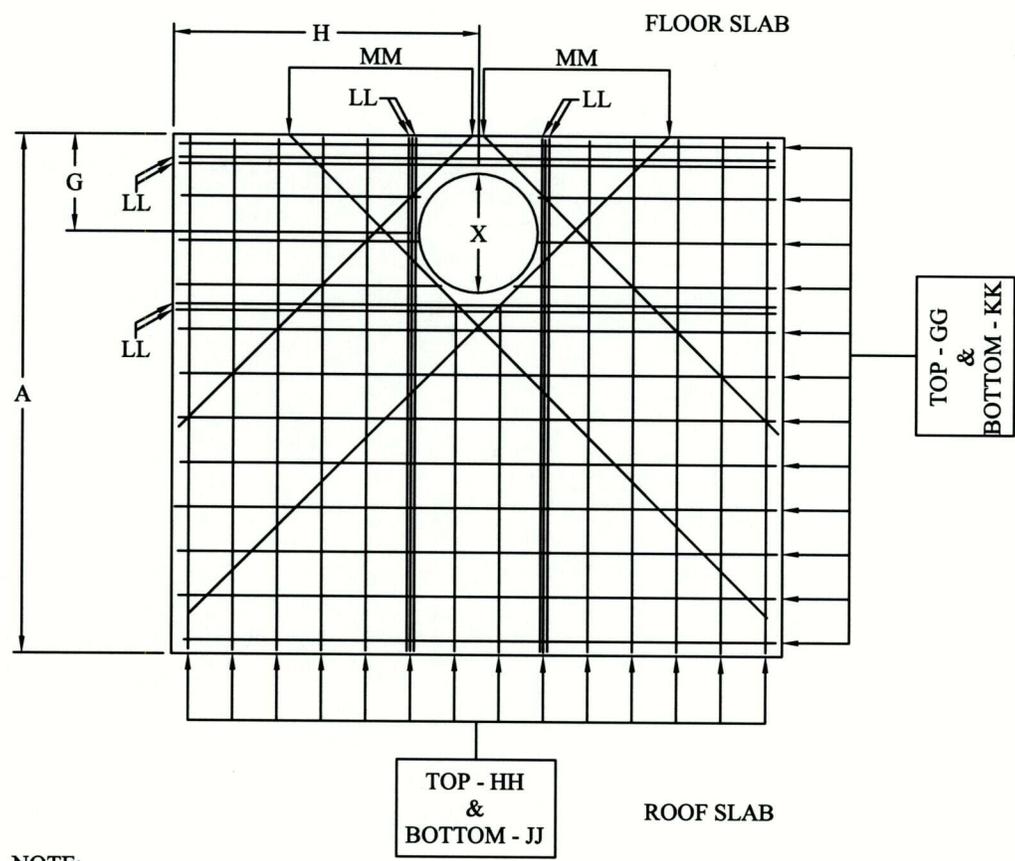
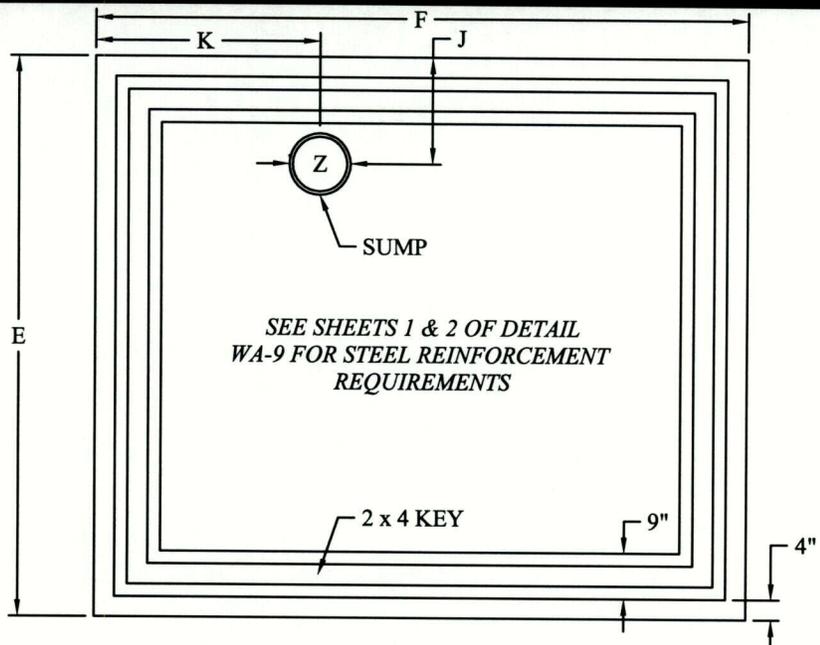
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METER SETTING DETAIL
FOR 3" AND LARGER
SHEET 2 OF 4

Scale: N.T.S.

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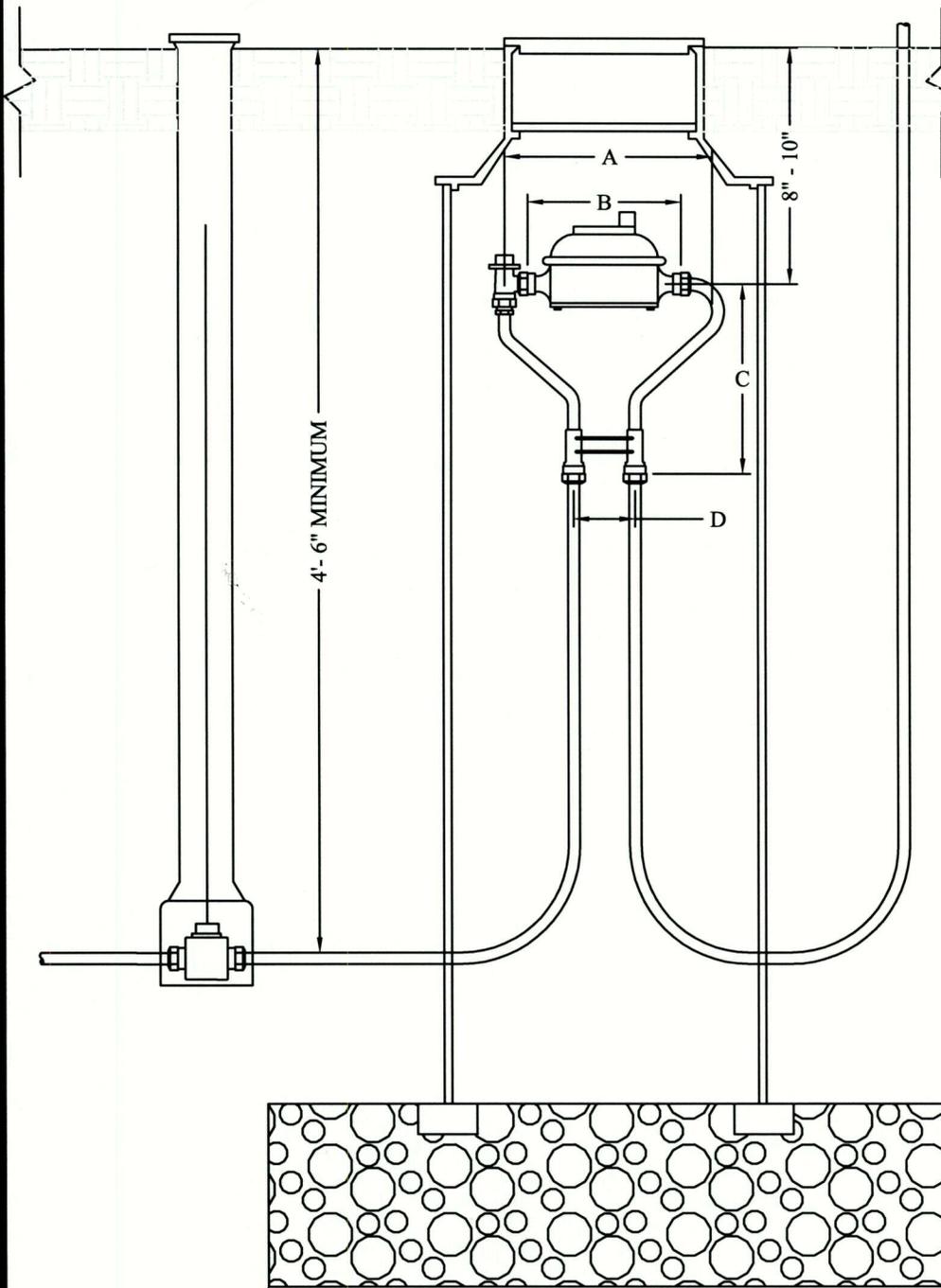
NOTE:

1. THE ROOF SLAB MAY BE CAST IN SECTIONS FOR FUTURE ACCESS. THE SECTIONS SHALL BE CAST SUCH THAT THE INDIVIDUAL SECTION WEIGHT DOES NOT EXCEED 7,500 POUNDS.
2. BARS MM - BOTTOM ONLY & BARS LL - TOP AND BOTTOM



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METER SETTING DETAIL
FOR 3" AND LARGER
SHEET 3 OF 4



GENERAL NOTES

1. NOT FOR INSTALLATION IN ROADWAYS, DRIVEWAYS, OR PARKING AREAS
2. IF SURFACE IS NOT TO FINAL GRADE AT TIME OF INSTALLATION OF METER LID SHALL BE 2 INCHES ABOVE GRADE
3. METER YOKE SHALL BE LOCATED NOT LOWER THAN 12 INCHES BELOW THE TOP LID. IN THE EVENT THE METER PIT IS ADJUSTED TO FINAL GRADE, OWNER SHALL ENSURE THAT THE YOKE BE RAISED/LOWER AS REQUIRED
4. METER TO BE LOCATED A MINIMUM OF 2 FEET FROM THE CURB STOP AND WITHIN THE UTILITY EASEMENT ADJACENT TO FRONT SIDEWALK, UNLESS OTHERWISE APPROVED BY THE DIRECTOR OF PUBLIC WORKS
5. METER PIT SHALL BE PLACED ON FREE-DRAINING GRAVEL BASE. CONCRETE SHALL NOT BE PERMITTED
6. METER PIT SHALL BE 20 INCH INSIDE DIAMETER DUROPIPE MODIFIED POLYETHYLENE BY METRO-STATES PLASTICS OR APPROVED EQUAL
7. NO STRUCTURES ARE TO BE LOCATED WITHIN 4 FEET OF METER PIT. LANDSCAPING IS PERMITTED, HOWEVER ACCESS TO THE METER PIT MUST BE MAINTAINED
8. CURB STOPS SHALL BE STRAIGHT AND CLEAN OF ANY DEBRIS
9. DAYLIGHT RESIDENT STUB OUT AS SHOWN ON DETAIL. CAP OR CRIMP END OF PIPE

3/4" ROCK

| METER SIZE | A | B | C | D |
|------------|------------------------|------------------------|------------------------|--------|
| 1-INCH | 17 $\frac{1}{2}$ -INCH | 10 $\frac{3}{4}$ -INCH | 11 $\frac{1}{2}$ -INCH | 6-INCH |



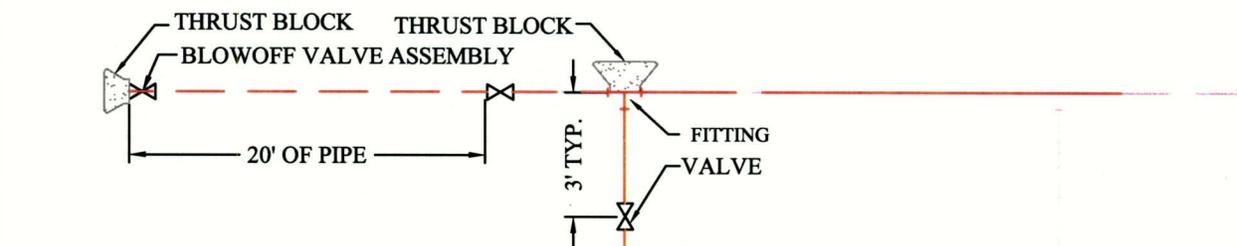
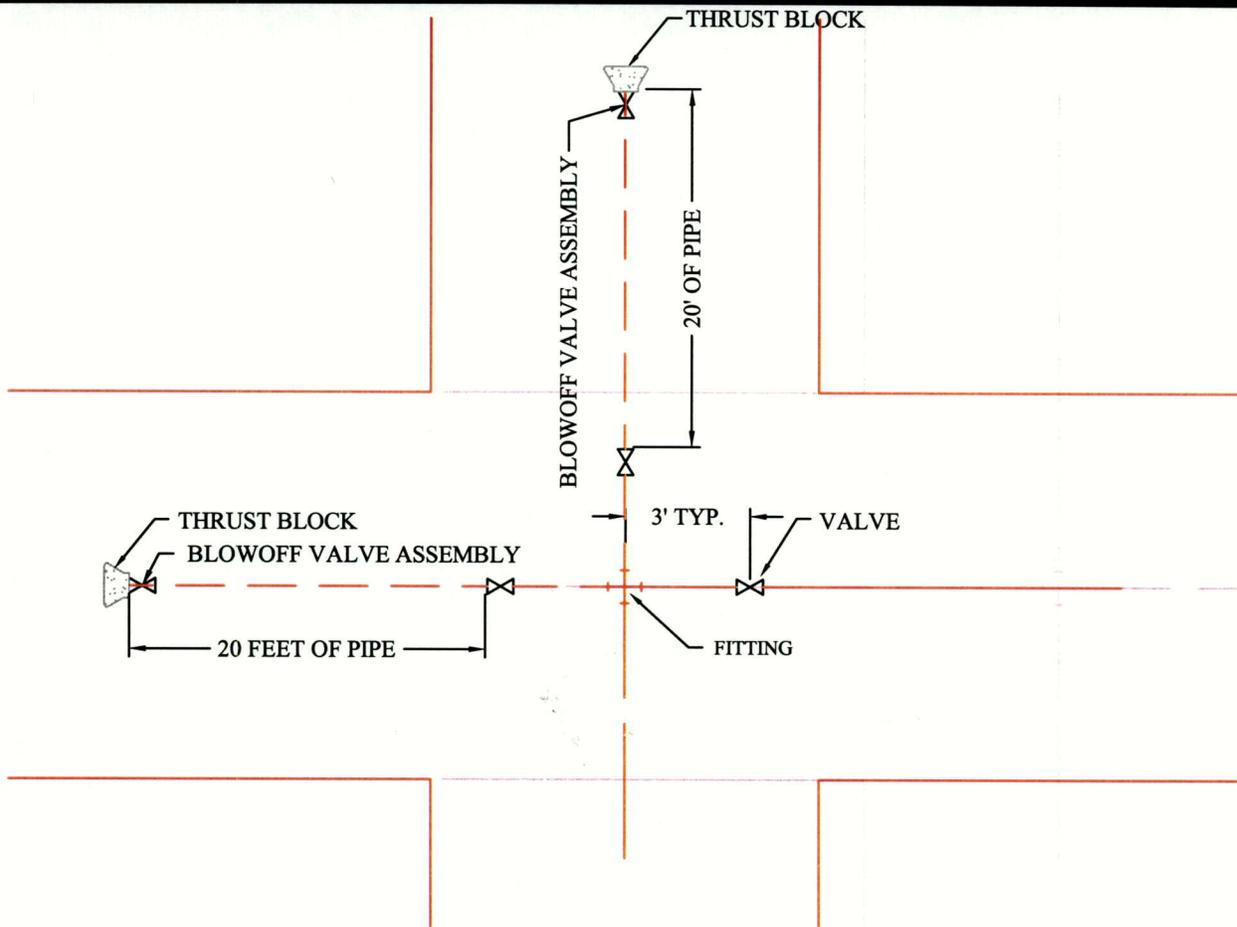
Public Works
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**METER SETTING FOR
NONPOTABLE WATER LINE**

Scale: N.T.S.

WA-10

April 2004



NOTES:

1. INSTALL VALVES 3' FROM TEE/CROSS (TYP.)
2. INSTALL DUCTILE IRON PIPE BETWEEN THE TEE/CROSS AND THE VALVE
3. A MINIMUM OF 20' OF PIPE, TRACER WIRE A VALVE, AND A TEMPORARY BLOWOFF ASSEMBLY SHALL BE PLACED FOR FUTURE CONNECTIONS AND/OR AT THE EDGE OF A PHASE/FILING BOUNDARY IN A SUBDIVISION
4. SEE BLOWOFF ASSEMBLY INSTALLATION DETAIL (No. WA-2)
5. SEE THRUST BLOCK DETAIL (No. WA-14)
6. MECHANICALLY RESTRAIN STUB-OUT PIPE BACK TO NEAREST VALVE OR FITTING



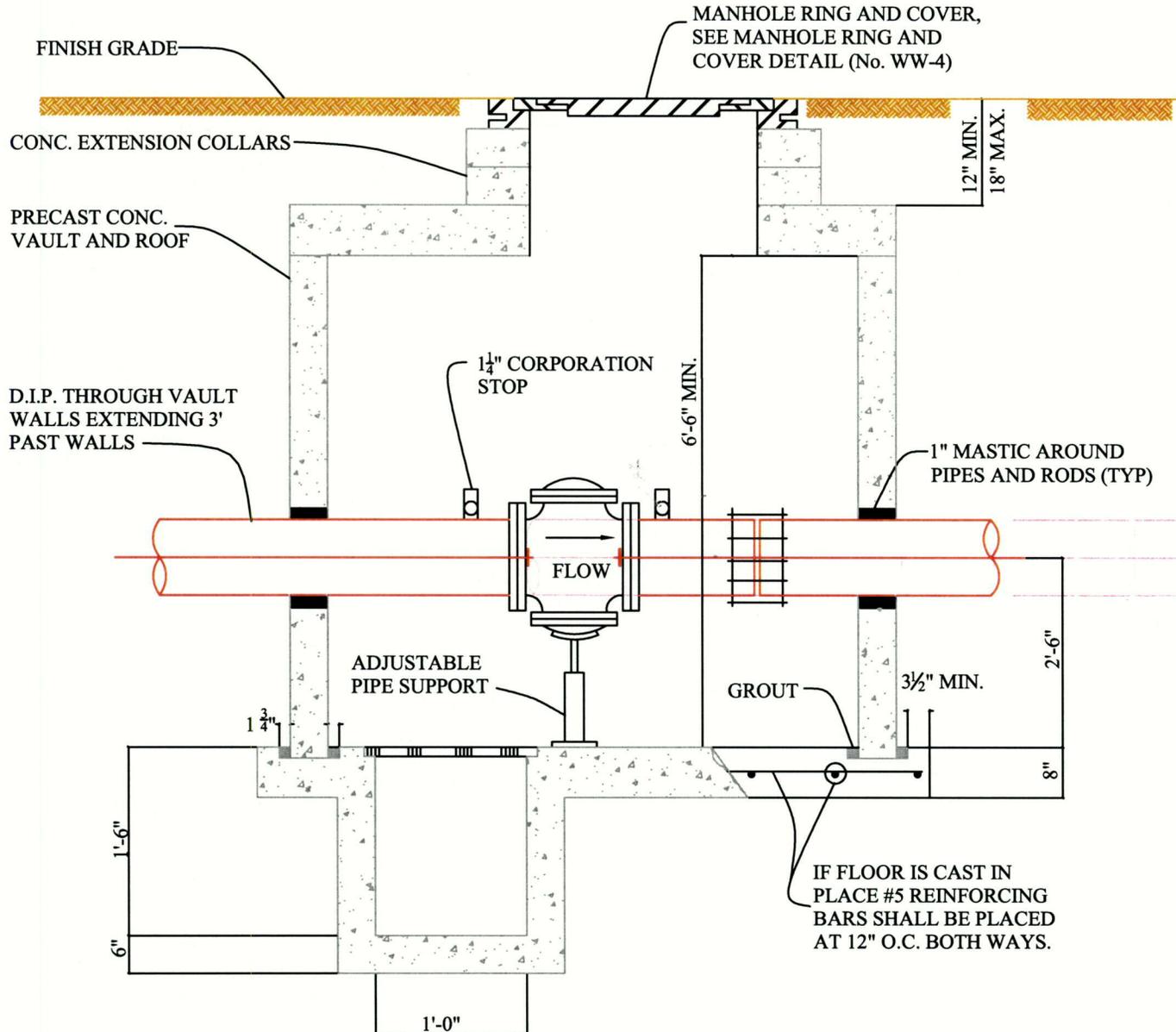
Public Works
Department

**PIPE INTERSECTIONS &
DEAD ENDS DETAIL
FOR FUTURE CONNECTIONS
AND/OR PHASE/FILING BOUNDARY**

Scale: N.T.S.

WA-11

April 2004



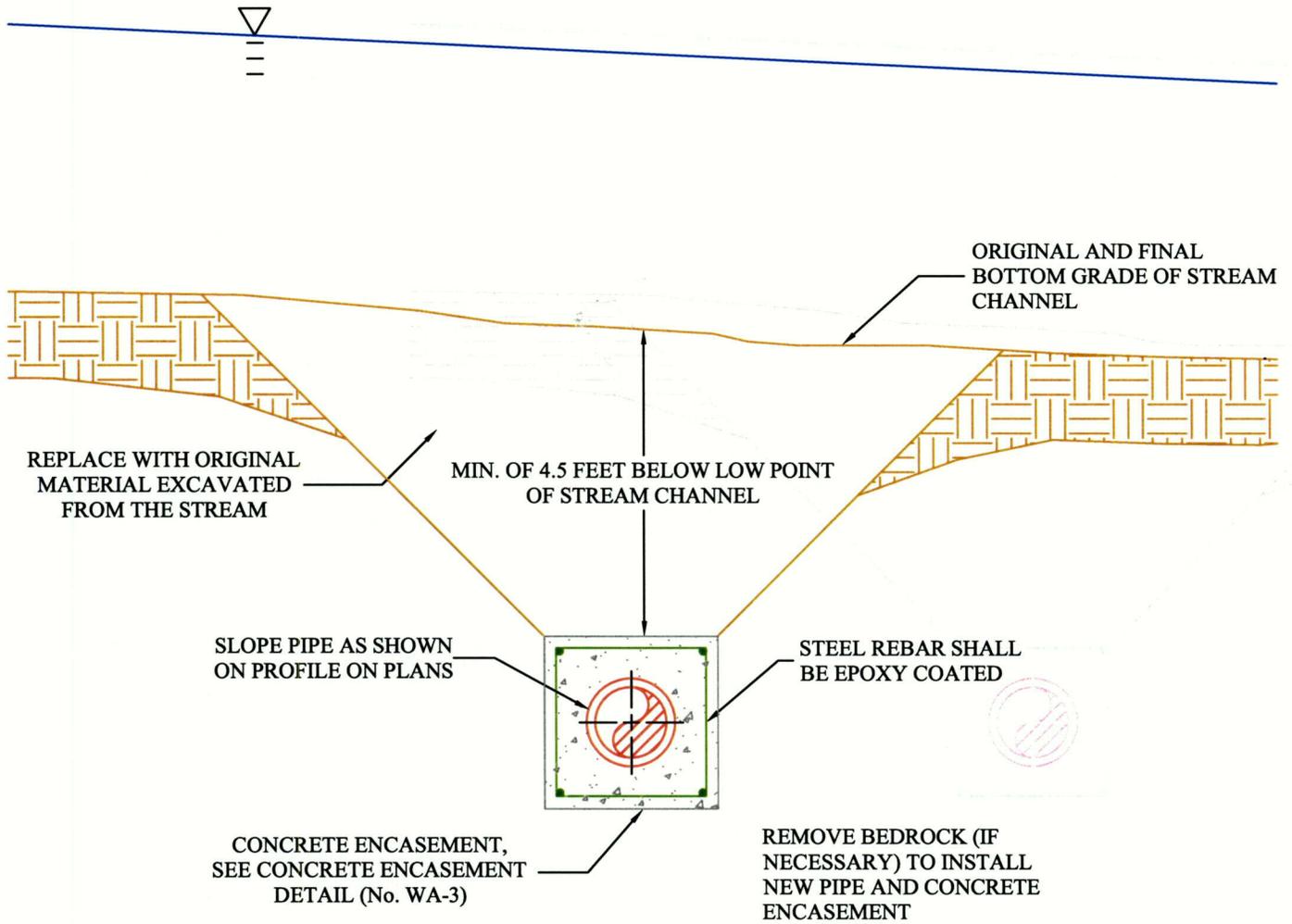
NOTES:

1. VAULTS SHALL BE PRECAST CONCRETE
2. A PERMIT IS REQUIRED FOR SUMP PUMP DISCHARGE TO STORM SEWERS



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PRESSURE RELIEF VALVE DETAIL
SECTION VIEW
SHEET 2 OF 2



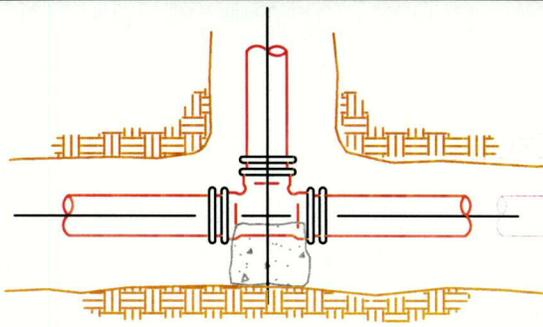
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STREAM OR DRAINAGEWAY
CROSSING DETAIL

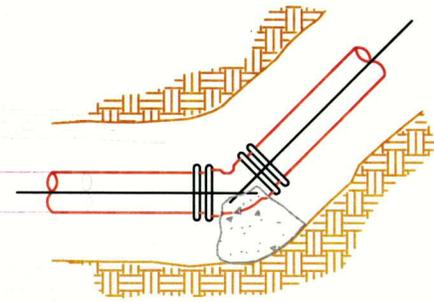
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WA-13

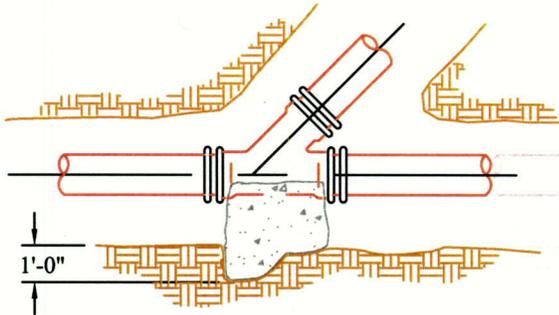
April 2004



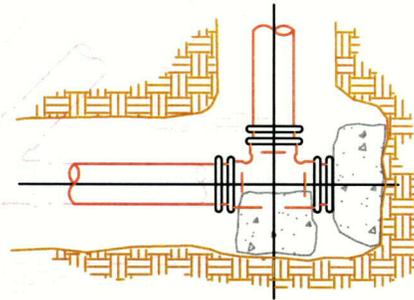
TEE



BEND-HORIZONTAL OR
BOTTOM OF VERTICAL

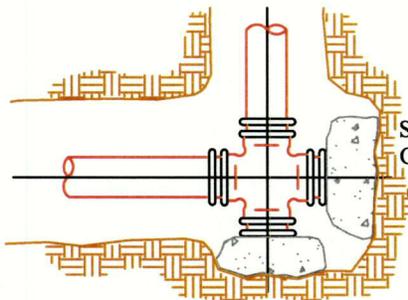


Y



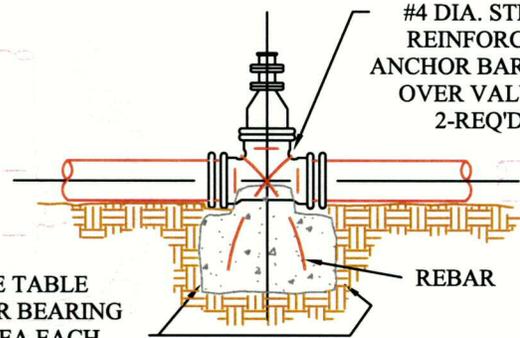
TEE W/DEAD END ON RUN

SEE NOTE 1
ON SHEET 2



SEE NOTE 1
ON SHEET 2

CROSS WITH
DEAD END BRANCHES



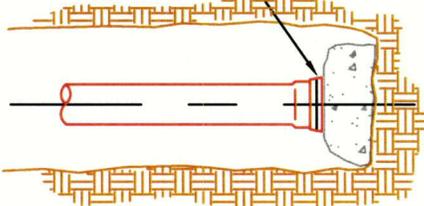
#4 DIA. STEEL
REINFORCED
ANCHOR BAR BENT
OVER VALVE -
2-REQ'D.

SEE TABLE
FOR BEARING
AREA EACH
SIDE - SHEET 3

REBAR

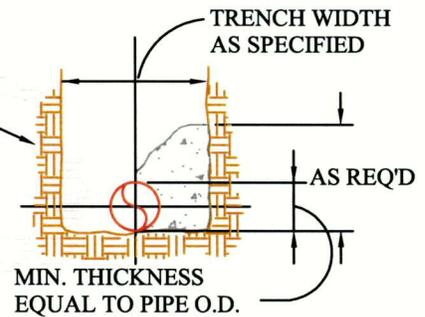
VALVE
(GATE OR BUTTERFLY)

PLUG OR LINE CAP
SEE NOTE 1 ON
SHEET 2



SEE TABLE ON SHEET 3 FOR
AREA OF CONCRETE TO
BEAR ON UNDISTURBED
EARTH

DEAD END

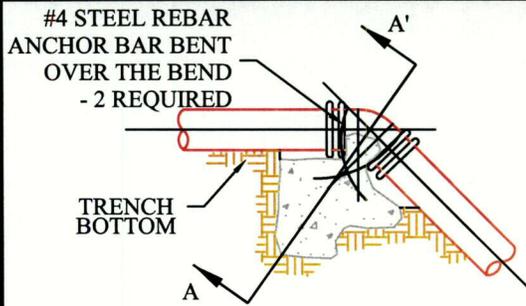


SECTION (TYPICAL)



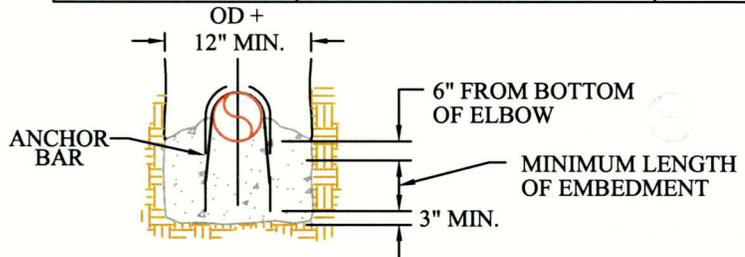
Public Works
Department

THRUST BLOCK DETAIL
SHEET 1 OF 3



TOP OF VERT. BEND

| BAR SIZES FOR 100 PSI | | MIN. LENGTH OF EMBEDMENT |
|-----------------------|--------------------|--------------------------|
| LESS THAN | NO. OF BARS & SIZE | |
| 60 CUBIC FEET | TWO - #4 | 8" |
| 90 CUBIC FEET | TWO - #5 | 12" |
| 133 CUBIC FEET | TWO - #6 | 16" |



SECTION A-A'

TABLE OF VOLUMES OF CONCRETE (IN CU. FT.)

REQ'D FOR VERT. BEND ANCHOR BLOCKS FOR 100 P.S.I. PRESSURE
ADJUST VOLUMES BY MULTIPLYING TABULATED VALUES BY A CORRECTION
FACTOR "F".

F= ACTUAL SPECIFIED TEST PRESSURE

100

| PIPE SIZE (INCHES) | BENDS | | |
|--------------------|-----------------------|---------|---------|
| | 45° | 22 1/2° | 11 1/4° |
| 3 | 3.7 | 1.9 | 1.4 |
| 4 | 6.5 | 3.3 | 1.7 |
| 6 | 14.6 | 7.5 | 3.7 |
| 8 | 26.0 | 13.2 | 6.6 |
| 10 | 40.5 | 20.7 | 10.3 |
| 12 | 58.5 | 30.0 | 14.8 |
| 14 | 79.5 | 40.7 | 20.2 |
| 15 | 91.0 | 46.6 | 23.2 |
| 16 | 104.0 | 53.0 | 26.5 |
| 18 | SPECIAL DESIGN REQ'D. | 67.3 | 33.4 |
| 20 | | 83.0 | 41.0 |
| 21 | | | 45.5 |
| 22 | | | 50.0 |
| 24 | | | 59.5 |
| 30 | | | |
| 36 | | | |

NOTES FOR DRAWINGS:

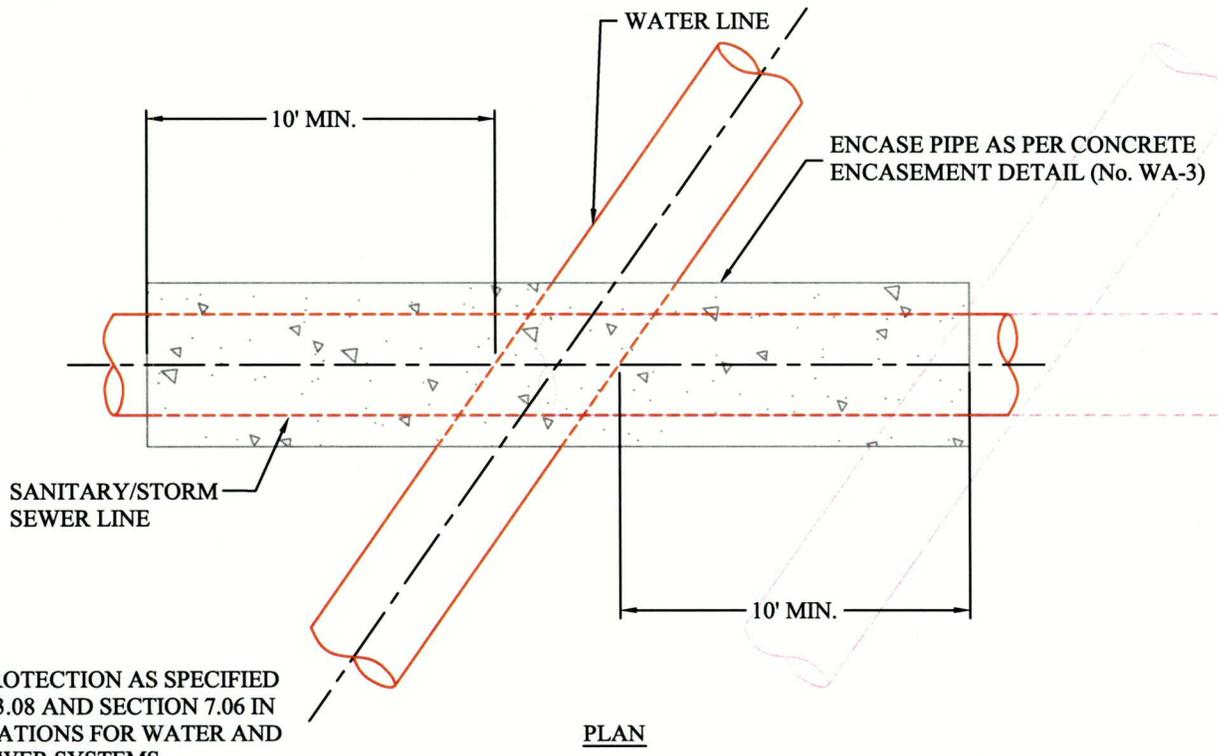
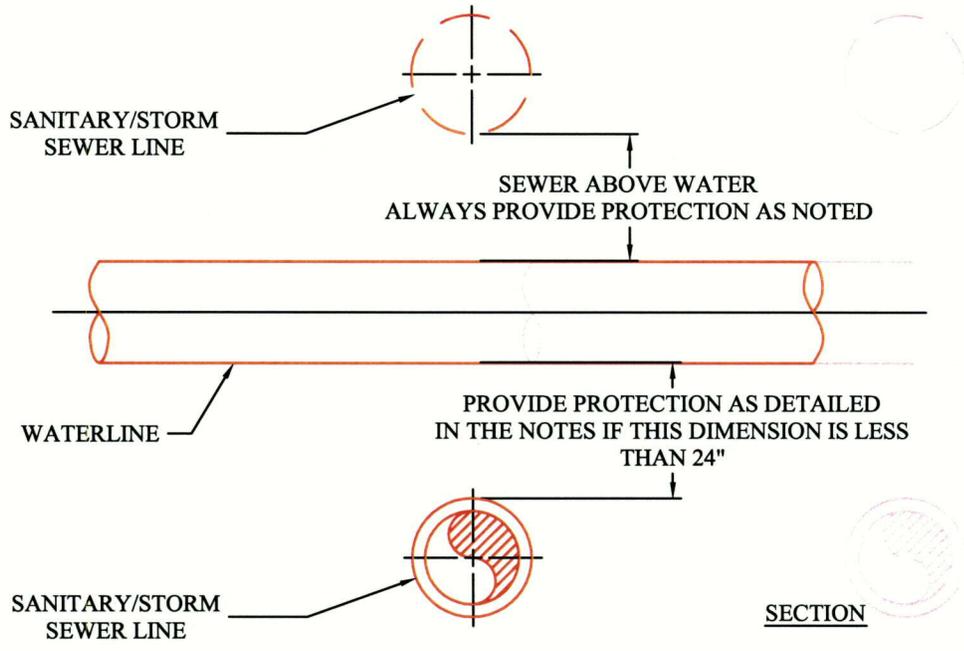
1. AT DEAD ENDS, WRAP FITTINGS WITH TAR PAPER, FELT, OR HEAVY KRAFT PAPER TO PROVIDE BOND BREAK BETWEEN CONCRETE AND FITTINGS
2. ALL THRUST BLOCKING SHALL BE CAST-IN-PLACE CONCRETE HAVING A MINIMUM YIELD STRENGTH OF 3000 P.S.I. NO HAND MIXING OF CONCRETE ALLOWED
3. THRUST BLOCKING SHALL BE CAST AGAINST UNDISTURBED EARTH. FORMS SHALL BE USED AS REQUIRED TO OBTAIN ADEQUATE BEARING AREA AND TO CONFINE THE CONCRETE. THRUST BLOCKING SHALL BEAR ON THE FITTING OR END CAP ONLY AND SHOULD NOT BE ALLOWED TO SPILL OVER THE JOINT OR AGAINST THE PIPE
4. MEGA-LUGS OR OTHER JOINT RESTRAINT MAY BE USED ALONG WITH OR IN PLACE OF CONCRETE THRUST BLOCKS WITH DESIGN SUBMITTED BY PROFESSIONAL ENGINEER AND APPROVED BY PUBLIC WORKS DEPARTMENT
5. PIPE INSTALLED UNDER CONDITIONS DIFFERENT FROM THOSE NORMALLY ENCOUNTERED SHALL REQUIRE THRUST BLOCKS DESIGNED FOR THOSE PARTICULAR CONDITIONS



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THRUST BLOCK DETAIL
SHEET 2 OF 3

FINISHED GRADE



NOTES:

1. PROVIDE PROTECTION AS SPECIFIED IN SECTIONS 3.08 AND SECTION 7.06 IN THE SPECIFICATIONS FOR WATER AND SANITARY SEWER SYSTEMS



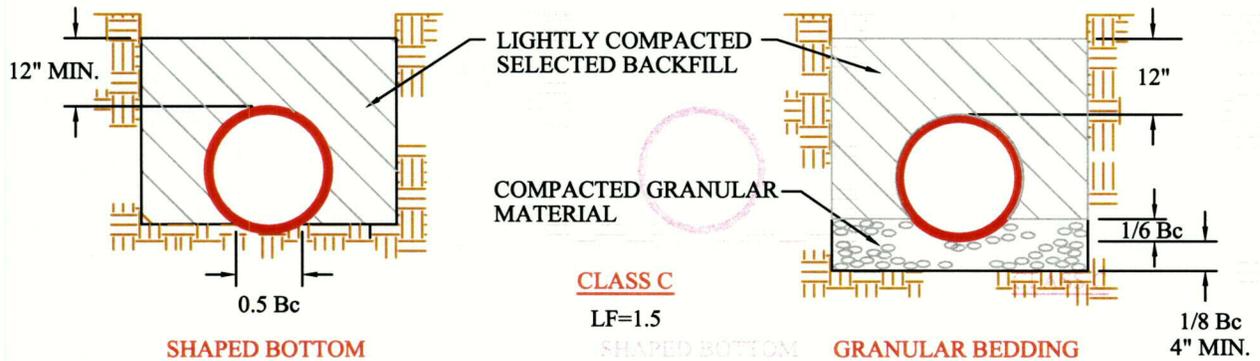
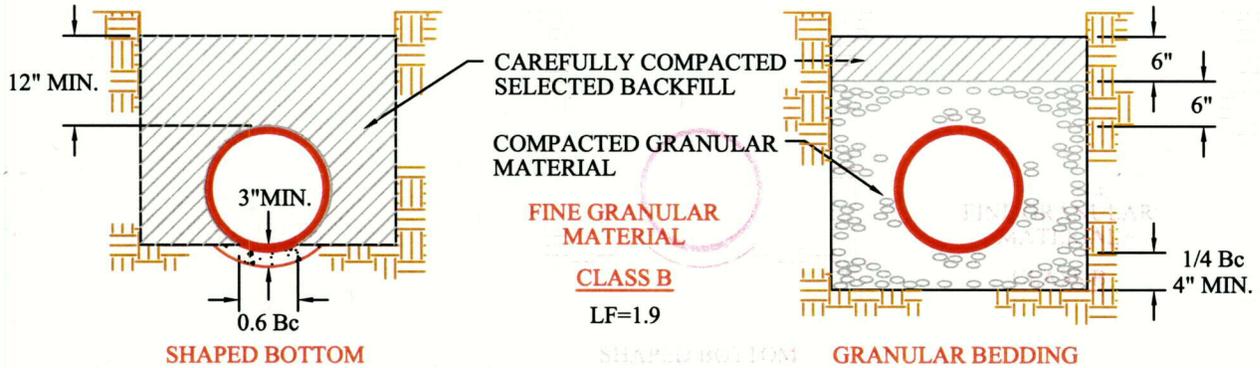
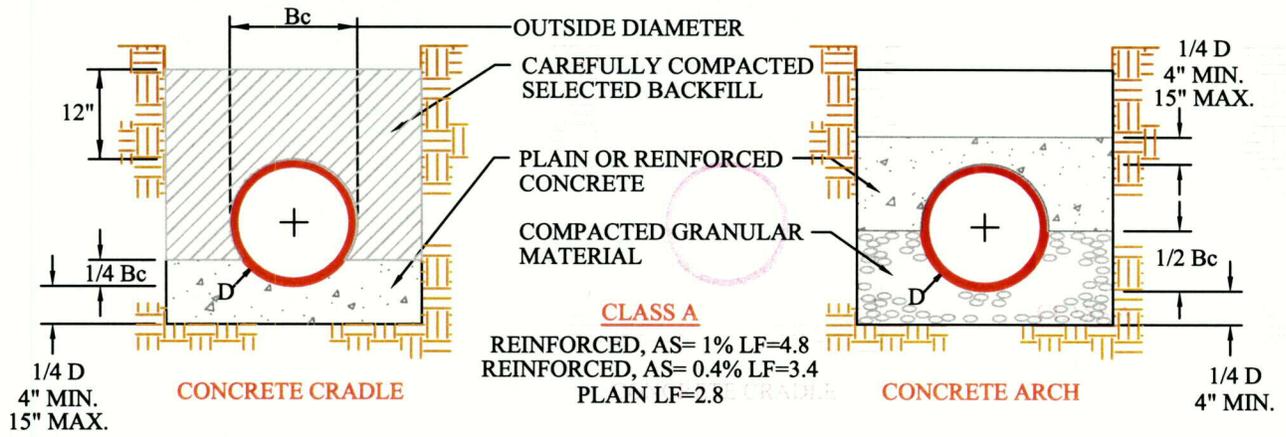
Public Works
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UTILITY CROSSING
DETAIL

Scale: N.T.S.

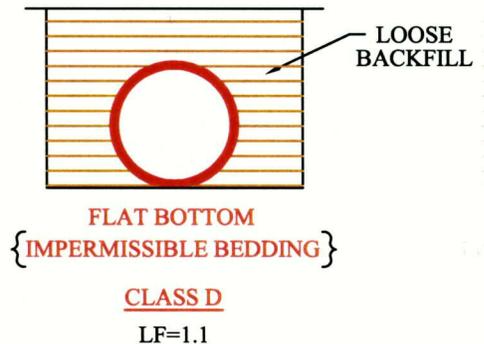
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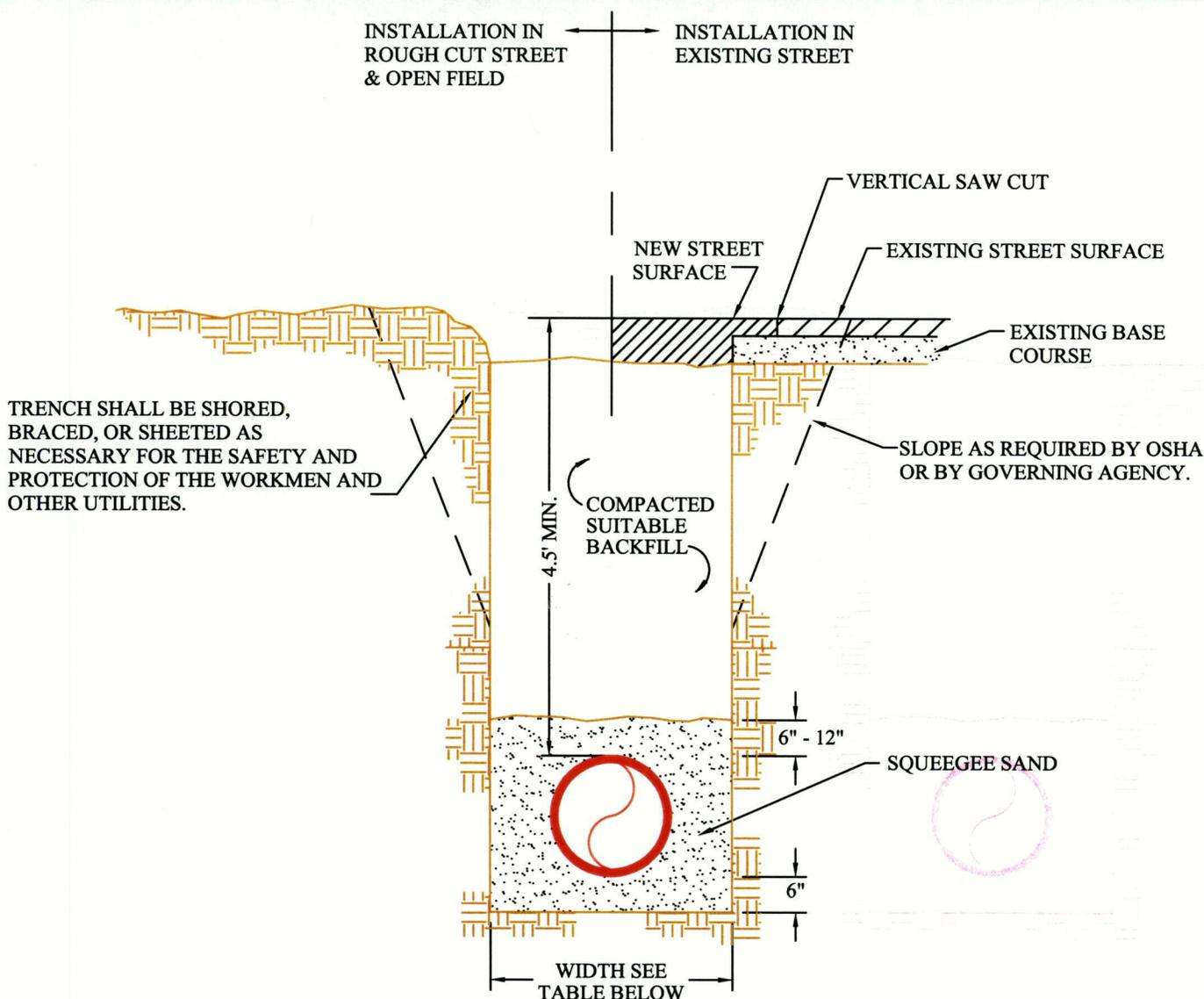
NOTES:

1. MINIMUM DENSITY FOR CAREFULLY COMPACTED SELECT BACKFILL SHALL BE 95% OF MAXIMUM OR AS SPECIFIED FOR THE TRENCH BACKFILL - WHICHEVER IS GREATER
2. MINIMUM DENSITY FOR LIGHTLY COMPACTED SELECT BACKFILL SHALL BE AS SPECIFIED FOR THE TRENCH BACKFILL
3. COMPACT GRANULAR MATERIAL BY SLICING WITH A SHOVEL AROUND PIPE. WHEN BEDDING IS 6" OVER PIPE, COMPACT WITH VIBRATING COMPACTOR
4. PVC SEWER PIPE SHALL BE INSTALLED USING CLASS B GRANULAR BEDDING
5. LF = LOAD FACTOR



Public Works
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WATER LINE
BEDDING DETAIL



NOTES:

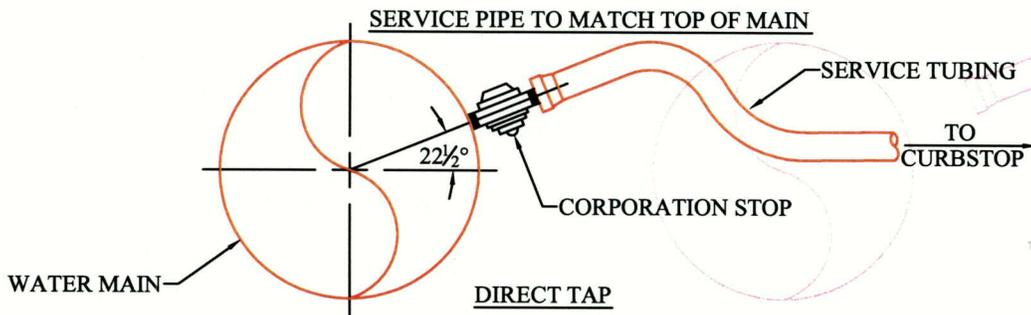
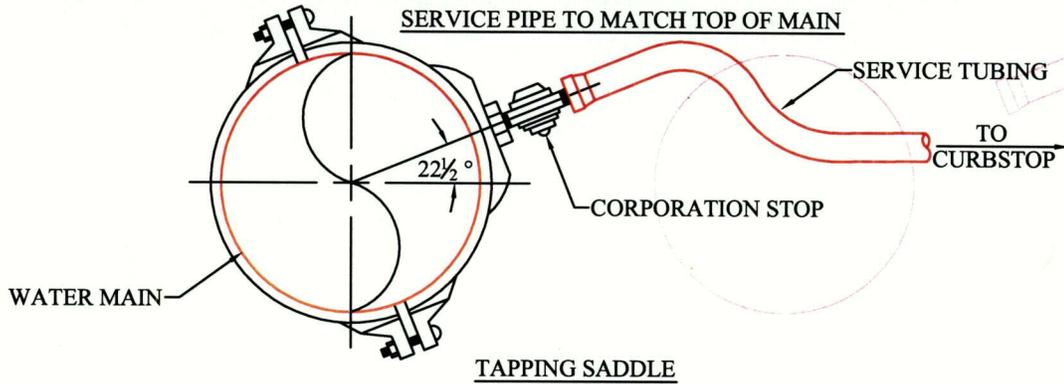
1. SQUEEGEE SAND IS DEFINED AS MATERIAL IN WHICH 100 % PASSES THROUGH A $\frac{3}{8}$ " SIEVE AND ONLY 0% TO 5% PASSES THROUGH A #200 SIEVE
2. AN OVER-EXCAVATED TRENCH SHALL BE REFILLED AND THOROUGHLY COMPACTED UNDER THE DIRECTION OF THE PUBLIC WORKS DEPARTMENT
3. UNDER NO CIRCUMSTANCES WILL PIPE BE LAID IN A PROPOSED FILL AREA PRIOR TO IT BEING COMPLETELY FILLED. THE FILL WILL BE PLACED FIRST TO PROPOSED GRADE AND COMPACTED AS REQUIRED. A TRENCH THEN WILL BE EXCAVATED AND THE PIPE INSTALLED IN THE USUAL MANNER

| PIPE DIAMETER | MINIMUM WIDTH | MAXIMUM WIDTH |
|---------------|---------------|---------------|
| 6" | 1'-6" | 2'-6" |
| 8" | 1'-8" | 2'-8" |
| 12" | 2'-0" | 3'-0" |
| 16" | 2'-4" | 3'-4" |
| 20" | 2'-8" | 3'-8" |
| 24" | 3'-0" | 4'-0" |
| 30" | 3'-6" | 4'-6" |



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**WATER LINE TRENCH
CROSS-SECTION DETAIL**



TYPE OF MAIN LINE PIPE AND SIZE OF TAP

| PIPE SIZE | CAST IRON | | | | | DUCTILE IRON | | | | | PVC C-900 | |
|-----------|-----------|----|--------|----|--------|--------------|----|--------|----|--------|-----------|------|
| | 3/4" | 1" | 1-1/2" | 2" | 3"& 4" | 3/4" | 1" | 1-1/2" | 2" | 3"& 4" | < 2" | > 2" |
| 3" | S | NO | NO | NO | TSV | NO | NO | NO | NO | TSV | S | TSV |
| 4" | DT | S | NO | NO | TSV | S | S | NO | NO | TSV | S | TSV |
| 6" | DT | DT | S | S | TSV | DT | S | S | S | TSV | S | TSV |
| 8" | DT | DT | S | S | TSV | DT | DT | S | S | TSV | S | TSV |
| 12" | DT | DT | S | S | TSV | DT | DT | S | S | TSV | S | TSV |
| 16" | DT | DT | S | S | TSV | DT | DT | S | S | TSV | | |
| 20" | DT | DT | S | S | TSV | DT | DT | S | S | TSV | | |

"S" - TAPPING SADDLE REQUIRED, ALL SADDLES SHALL HAVE THE AWWA TAPER ON IT'S THREADS.
 "DT" - DIRECT TAP REQUIRED
 "NO" - NO TAP PERMITTED WITH OR WITHOUT A SADDLE, A TEE CONNECTION MAY BE PERMITTED IF SPECIFICALLY AUTHORIZED BY THE WATER DEPARTMENT
 "TSV" - TAPPING SLEEVE AND VALVE REQUIRED

NOTE:

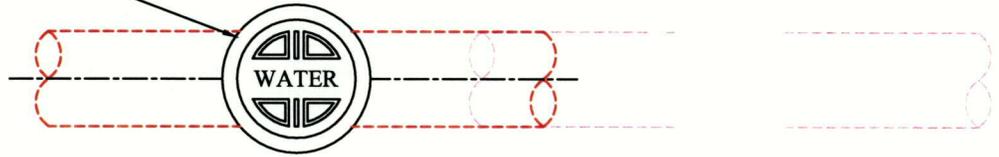
1. ALL TAPPING SADDLES 2" AND SMALLER, SHALL CONSIST OF A BRONZE BODY WITH TWO (2) BRONZE STRAPS
2. EXISTING STEEL MAINS 12" IN DIAMETER OR LESS, SHALL BE TAPPED USING AN APPROVED TAPPING SADDLE
3. ALL TAPS SHALL BE MADE WITH AN APPROVED TAPPING TOOL



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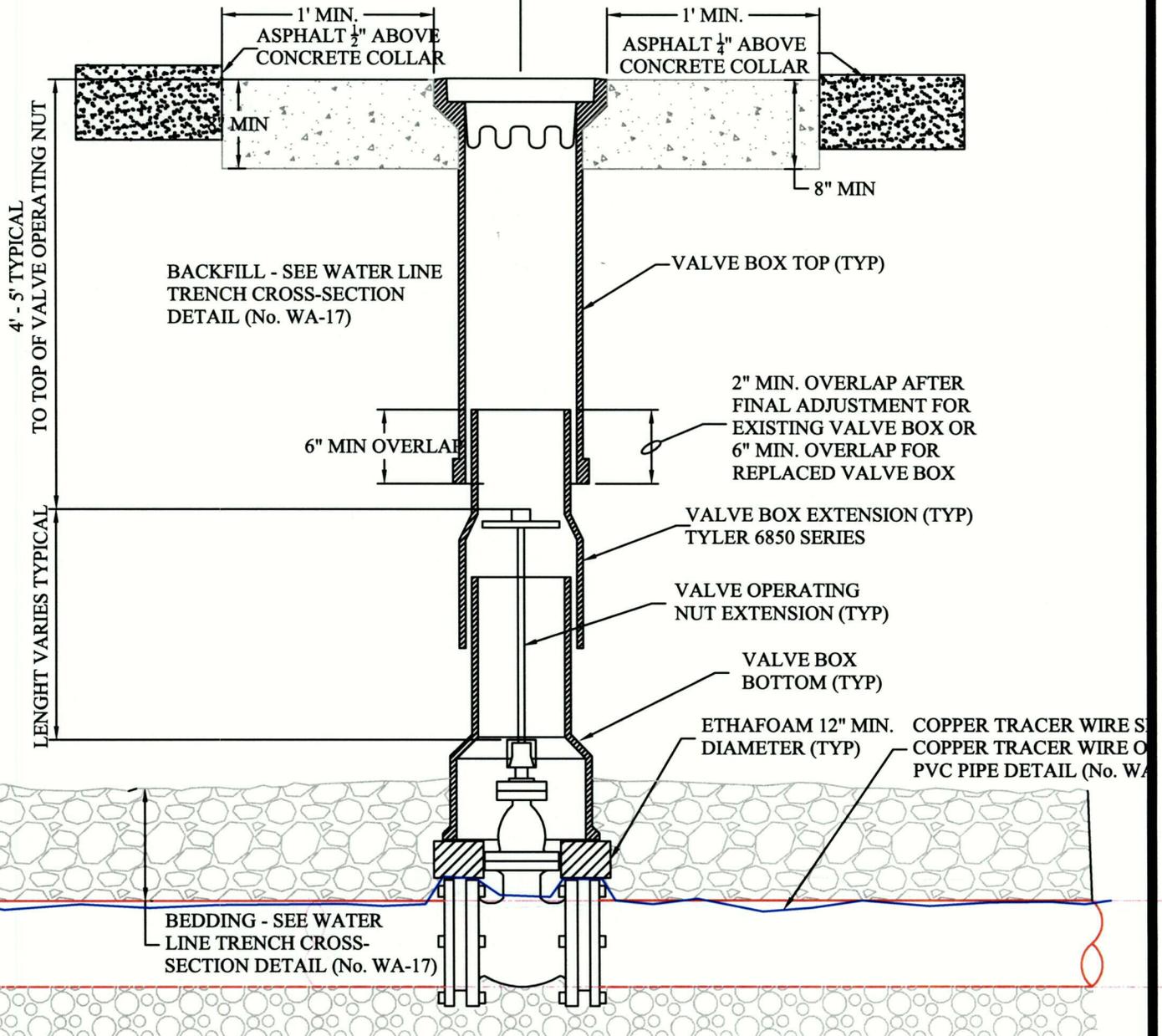
WATER SERVICE
CONNECTION DETAIL

VALVE BOX COVER



NEW CONSTRUCTION

ADJUSTMENT OF EXISTING VALVE BOX IN PAVEMENT



Public Works
Department

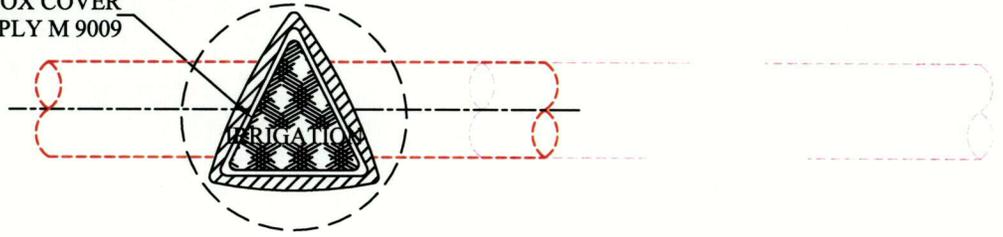
WATER VALVE BOX DETAIL

Scale: N.T.S.

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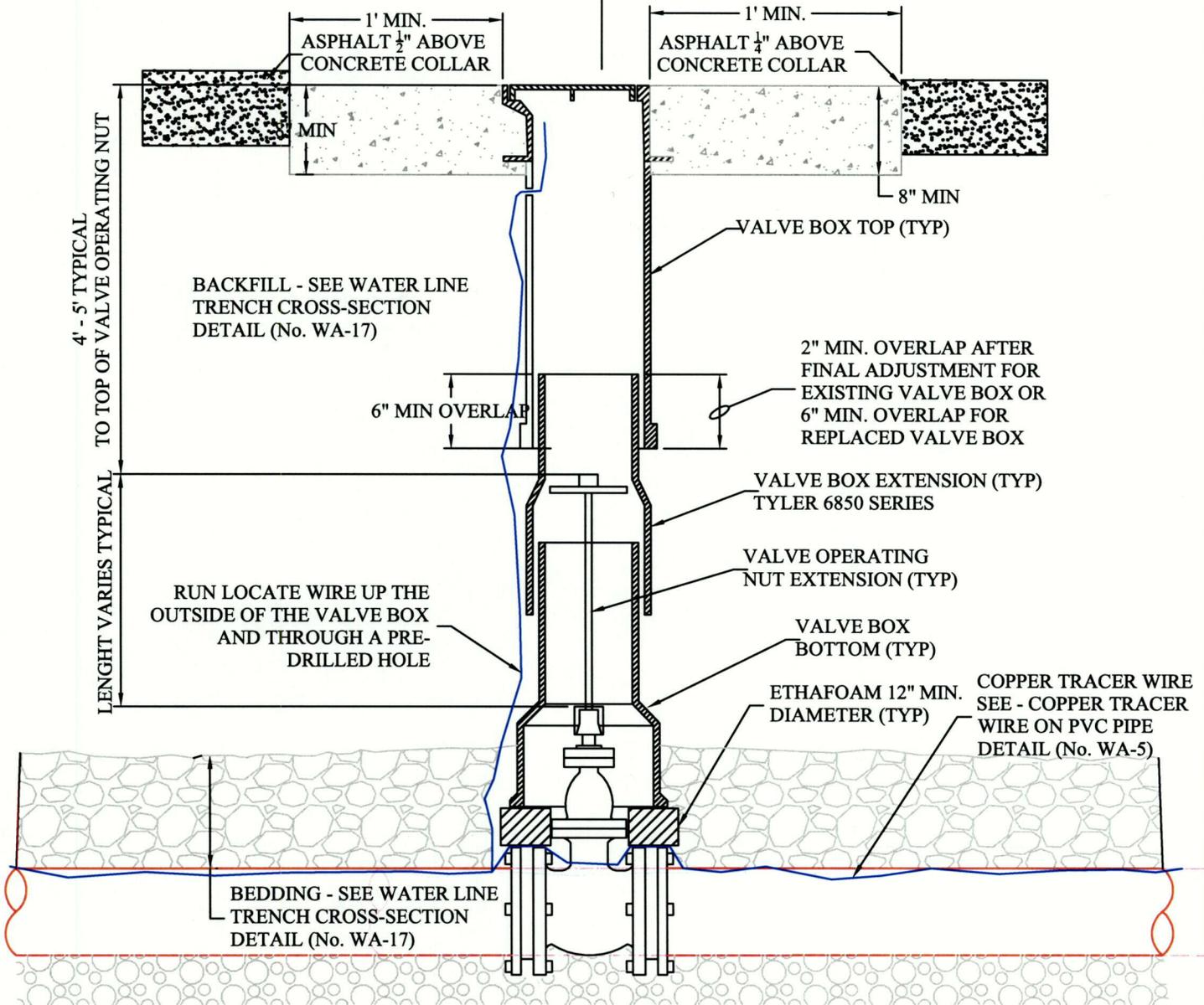
April 2004

VALVE BOX COVER
D&L SUPPLY M 9009



NEW CONSTRUCTION

ADJUSTMENT OF EXISTING
VALVE BOX IN PAVEMENT



Public Works
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WATER VALVE
BOX DETAIL
NONPOTABLE WATER

Scale: N.T.S.

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