



CITY OF HEMET
PUBLIC WORKS DEPARTMENT

STANDARD DRAWINGS

CITY OF HEMET PUBLIC WORKS DEPARTMENT

STANDARD DRAWINGS

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Text in ***BOLD ITALICS*** indicates 2022 revisions.

NOTE: RESIDENTIAL HYDRANTS SHALL HAVE 1-2½" OUTLET AND 1-4" STEAMER OUTLET UNLESS OTHERWISE NOTED. COMMERCIAL AND INDUSTRIAL HYDRANTS SHALL HAVE 2-2½" OUTLETS AND 1-4" OUTLET

PENTAGON TO BE 1-⅛" FACE TO POINT

FIRE HYDRANT HEAD:
JAMES JONES J 3700R, 3765R OR EQUAL

BREAK AWAY BOLTS.
(6-BOLTS FLANGE)

BREAKOFF RISER
BOTTOM FLANGE 1½" BELOW
CURB OR SIDEWALK

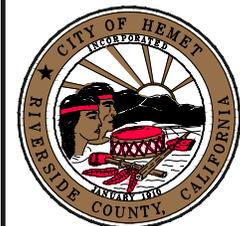
GROUND LEVEL

CAST IRON RING
TITE BURY

4 SQ. FT. CONCRETE
THRUST BLOCK

SEE W-700A

C900 P.V.C.



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ENGINEERING DIVISION

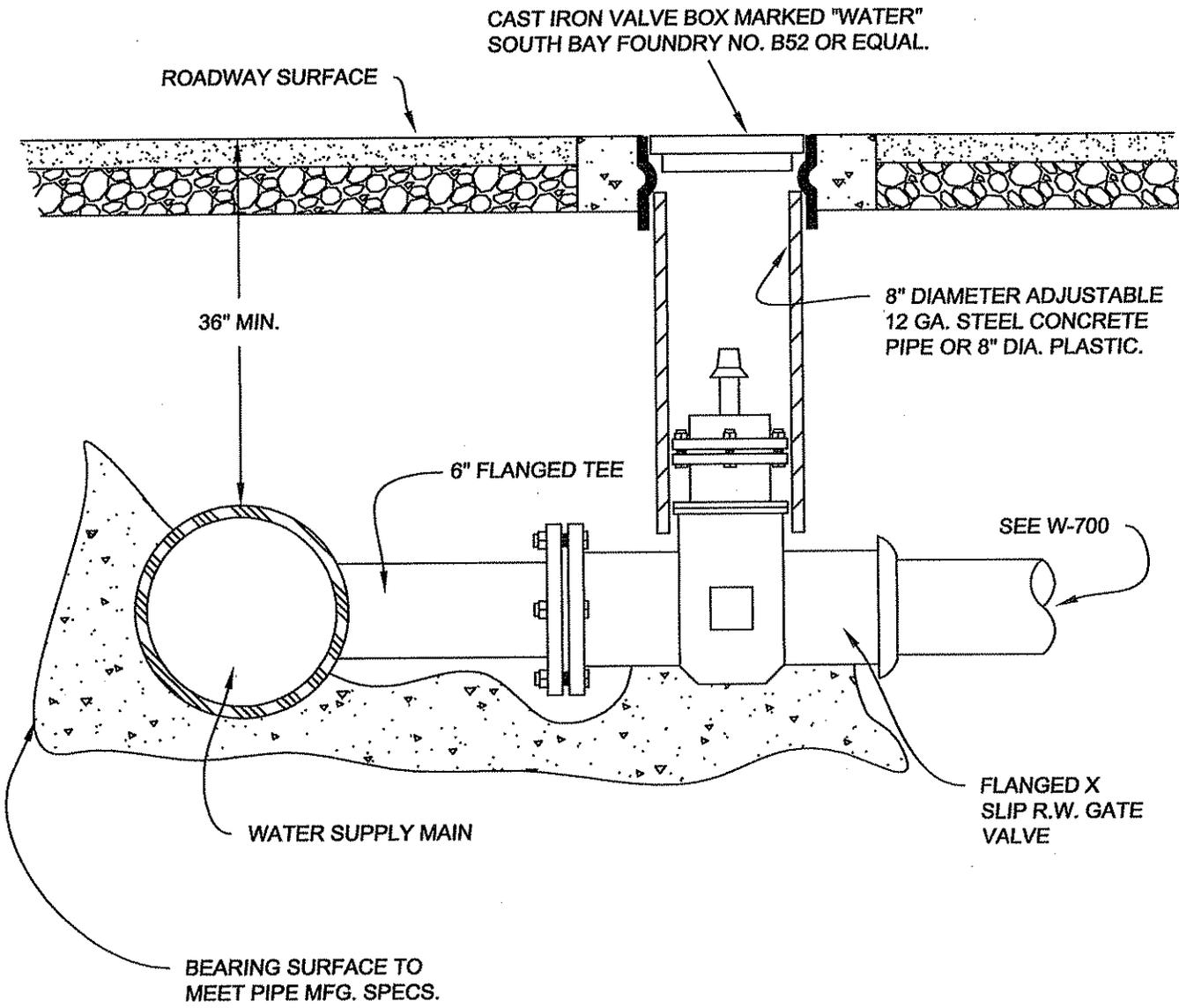
445 E. FLORIDA AVENUE
HEMET, CA 92543
(951) 765-2360

**FIRE HYDRANT
INSTALLATION**

Noah Rau APRIL 2022
NOAH RAU, R.C.E. 74686, PUBLIC WORK DIRECTOR/CITY ENGINEER DATE

REVISIONS	

1
OF **3** SHEETS
STANDARD NO.
W-700

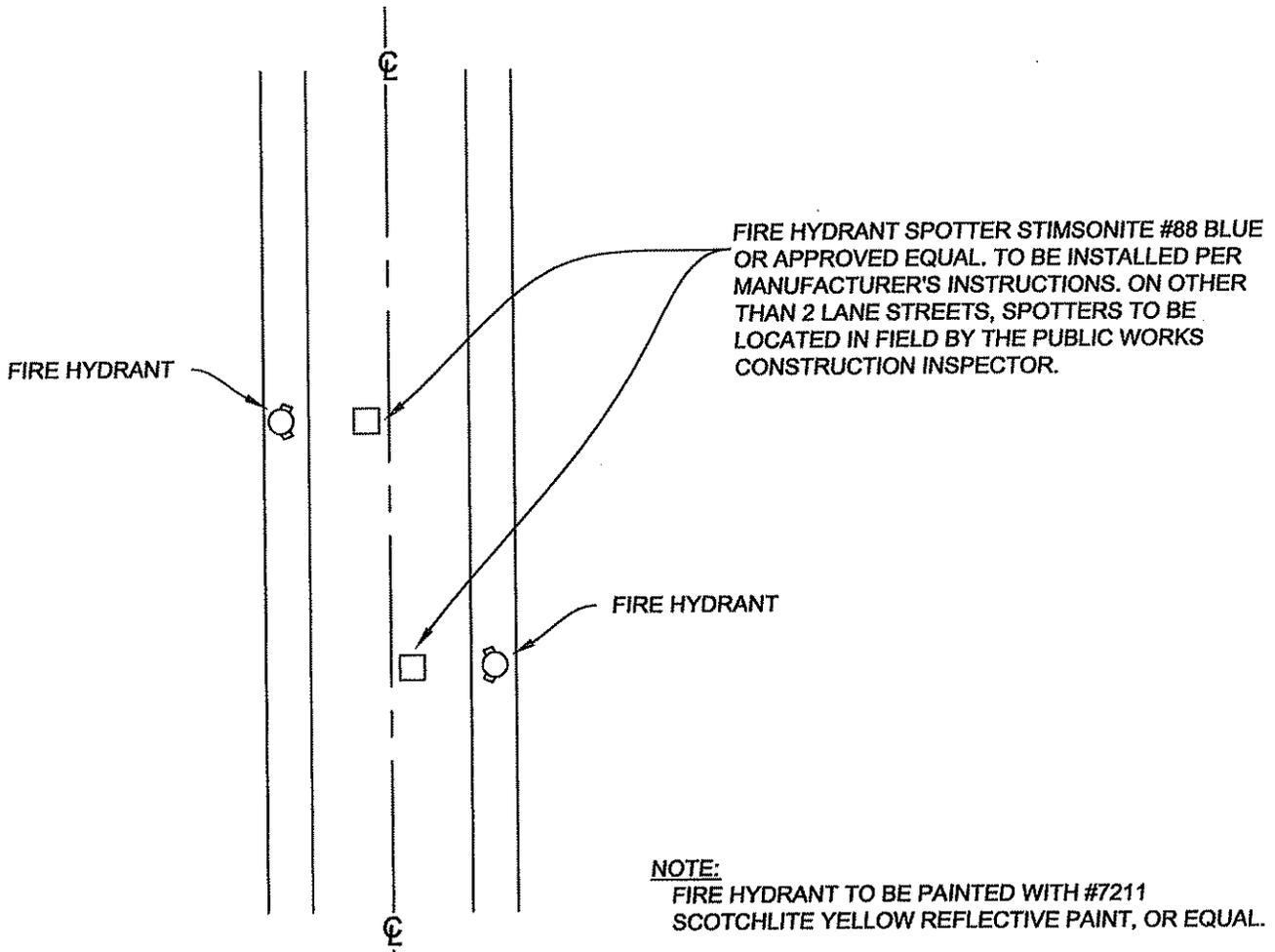
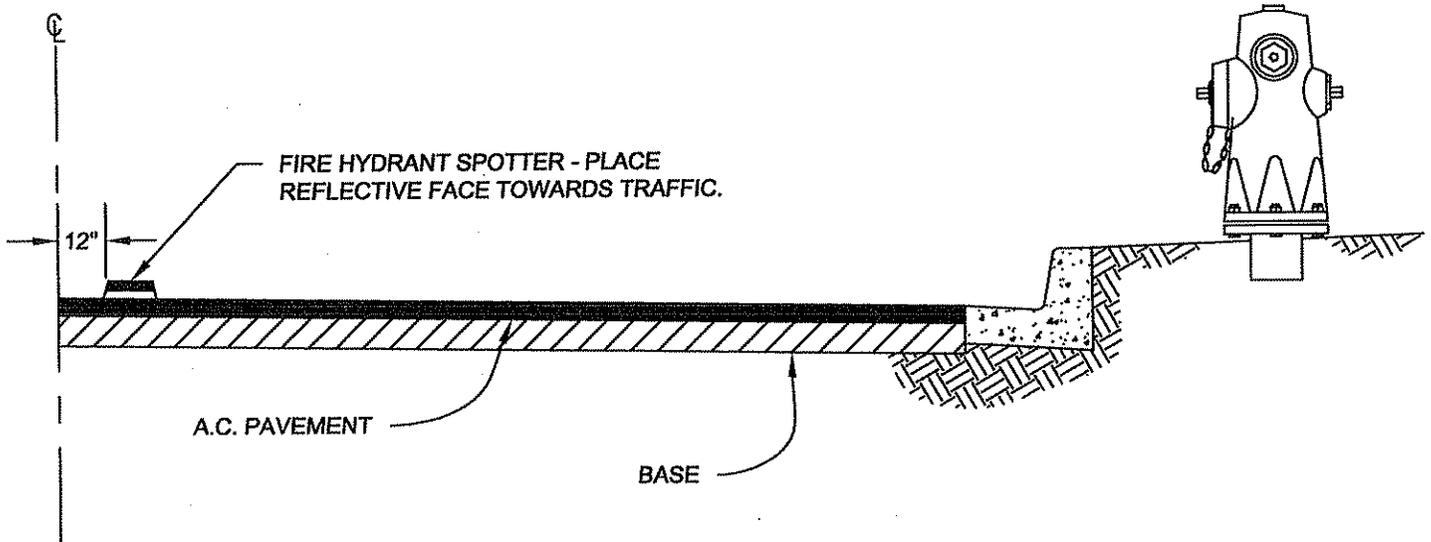


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**FIRE HYDRANT
 INSTALLATION**

	MAR 2009
MICHAEL A. GOW, PW DIRECTOR/CITY ENG. R.C.E. 54164	DATE
REVISIONS	
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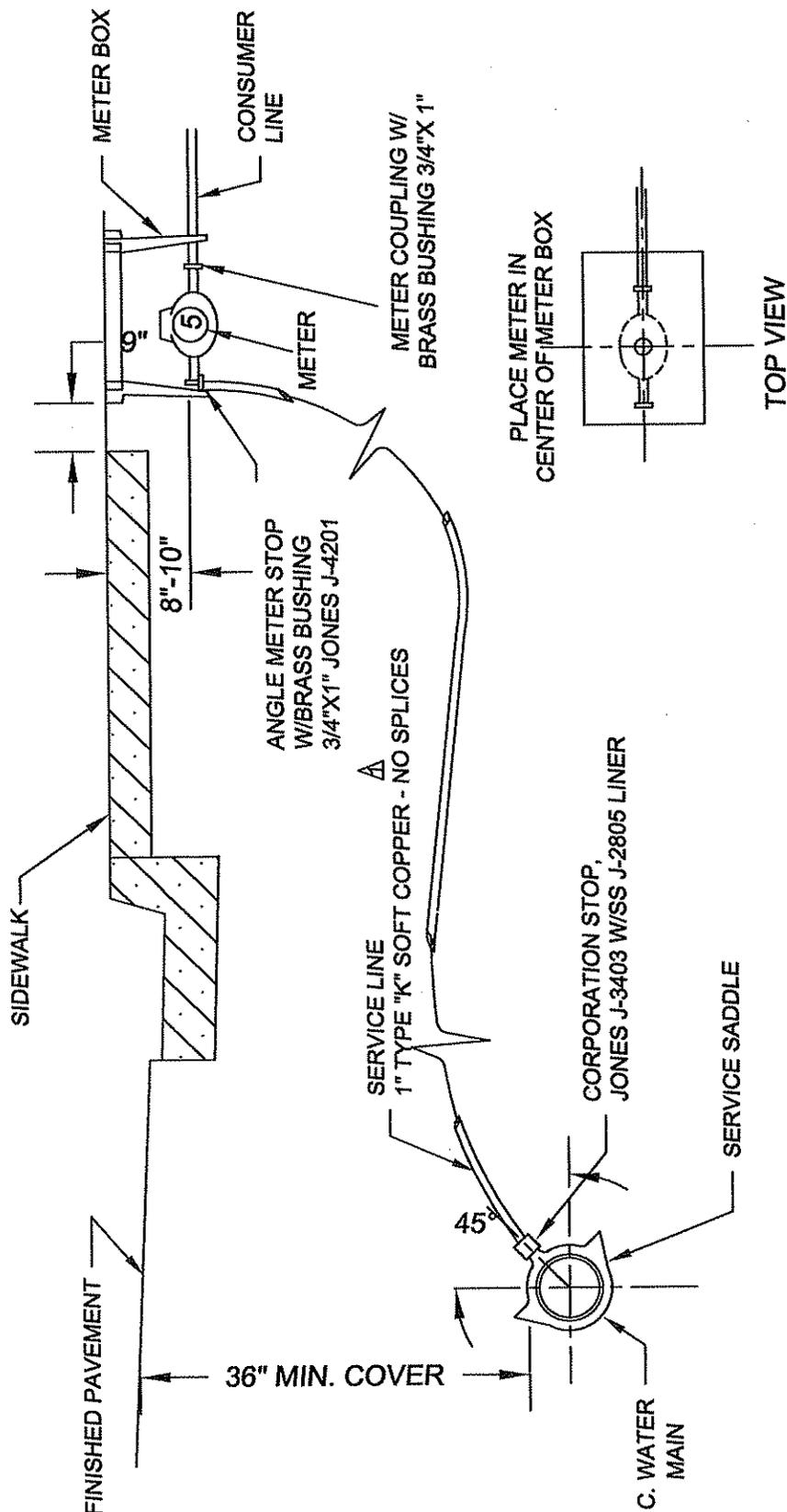
2
 OF 3 SHEETS
STANDARD NO.
W-700A



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FIRE HYDRANT SPOTTER

		MAR 2009	3
MICHAEL A. GOW, PW DIRECTOR/CITY ENG. R.C.E. 54164		DATE	
REVISIONS			OF 3 SHEETS
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N.Beltran 2009			W-700B



NOTES:

1. WHERE TRADE NAMES ARE SPECIFIED, APPROVED EQUAL ITEMS MAY BE SUBSTITUTED.
2. METER SIZE WILL BE 5/8"X3/4" OR 1" OR 2"
3. METER WILL BE PURCHASED BY CONTRACTOR OR CUSTOMER FROM CITY OF HEMET WATER DEPARTMENT
4. NO 1/2" METERS OR SERVICES TO BE INSTALLED.
5. ALL SERVICES, 2" OR LARGER, SHALL HAVE A SAME METER SIZE.



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STANDARD WATER SERVICE CONNECTION

		MAR 2011
JORGE L. BIAGIONI, PRINCIPAL ENGINEER R.C.E. 33751		DATE
REVISIONS		
A	MARCH 2011	REVISED NOTE
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1
 OF 5 SHEETS
STANDARD NO.
W-701

NOTES:

1. Meter Box cover to be cast iron where box is in sidewalk, alley or driveway.
2. Contractor shall install meter boxes at time angle meter stops are installed.
3. Approved equals to material specified heron are contained in spec. 205.
4. C.I.P. mains shall be tapped with cc threads.
5. C900 P.V.C. mains shall use saddles using latest approved method.
6. On all water mains the contractor shall furnish and install service connections on both sides of the meter and meter box.
7. Both the service and consumer lines shall be furnished and installed by the contractor prior to sidewalk construction.
8. Strict adherence to special provisions for testing and disinfecting A.C. water lines (S.P.-141) shall be enforced.
9. No direct taps shall be made in A.C. main.
10. R.P. Principal backflow prevention required on all new commercial service.
11. 2"-8" Meter installation will be per Standard W-701.

BILL OF MATERIALS			
ITEM		CITY #	QTY
1.	1" HEAVY BRONZE TAPPED, SADDLED FOR A.C.P. OR C900	PER W.O.#	1
2.	1" CORPORATION STOP M.I.P. THREAD - TUBING C.T.S.		1
3.	ANGLE METER STOP TUBING - C.T.S. AND C.T.S COUPLING 1"		1
4.	1" TUBING COPPER TYPE "K"		VAR.
5.	METER INSTALLED BY CITY FORCES		
6.	METER BOX - ARMACAST #A6000485 ▲	4505	1
7.	1" METER COUPLINGS	4713-4700	1

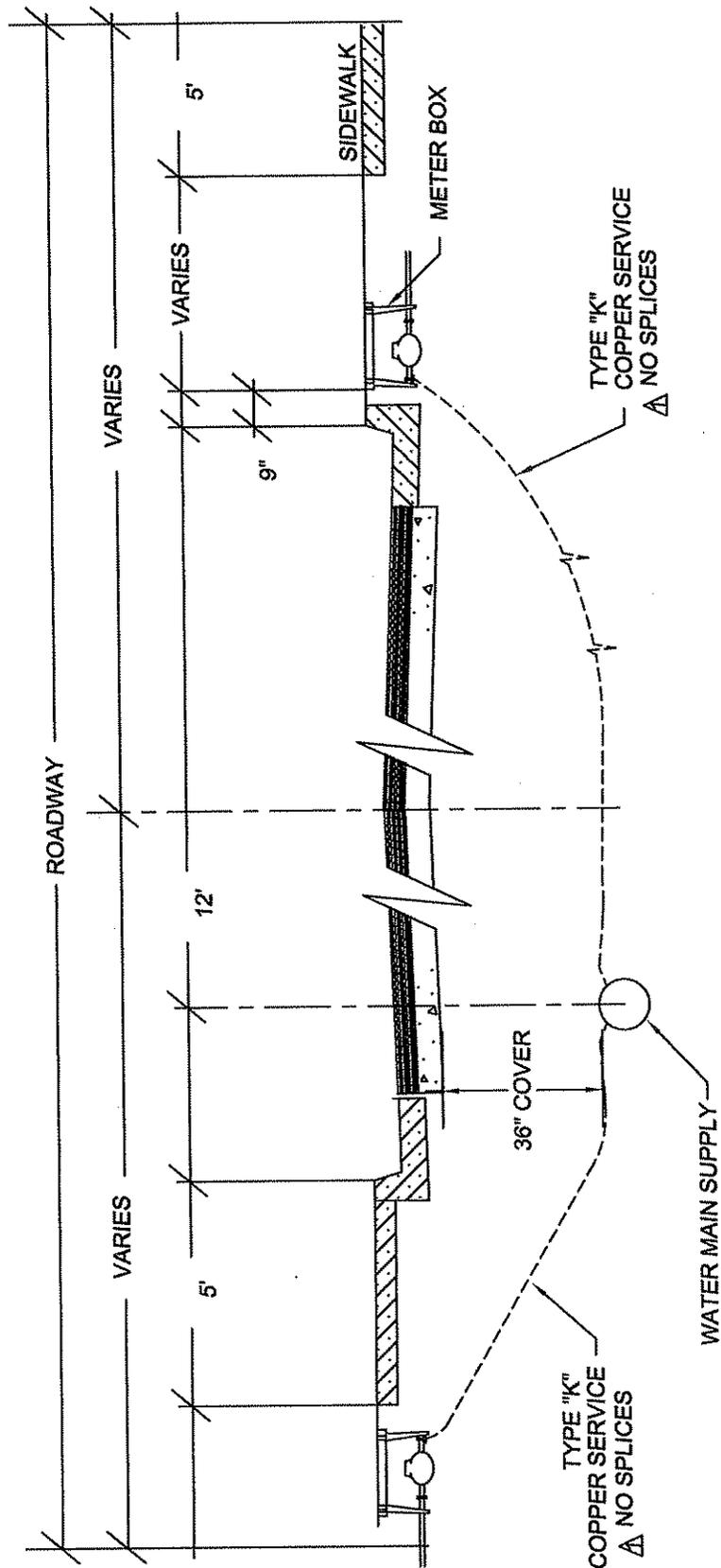


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1" WATER SERVICE COPPER

Jep
 JORGE L. BIAGIONI, PRINCIPAL ENGINEER R.C.E. 33751
 MAR 2011
 DATE
 REVISIONS
 ▲ MARCH 2011 REVISED ARMACAST #
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 OF 5 SHEETS
STANDARD NO.
W-701A



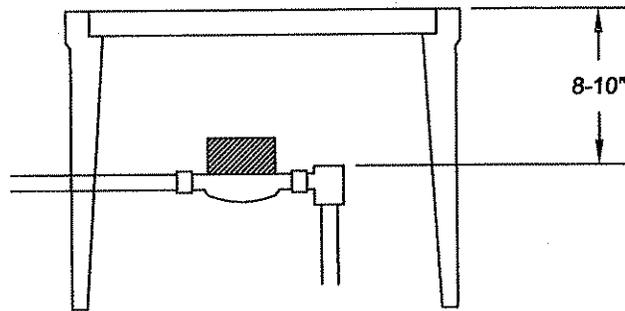
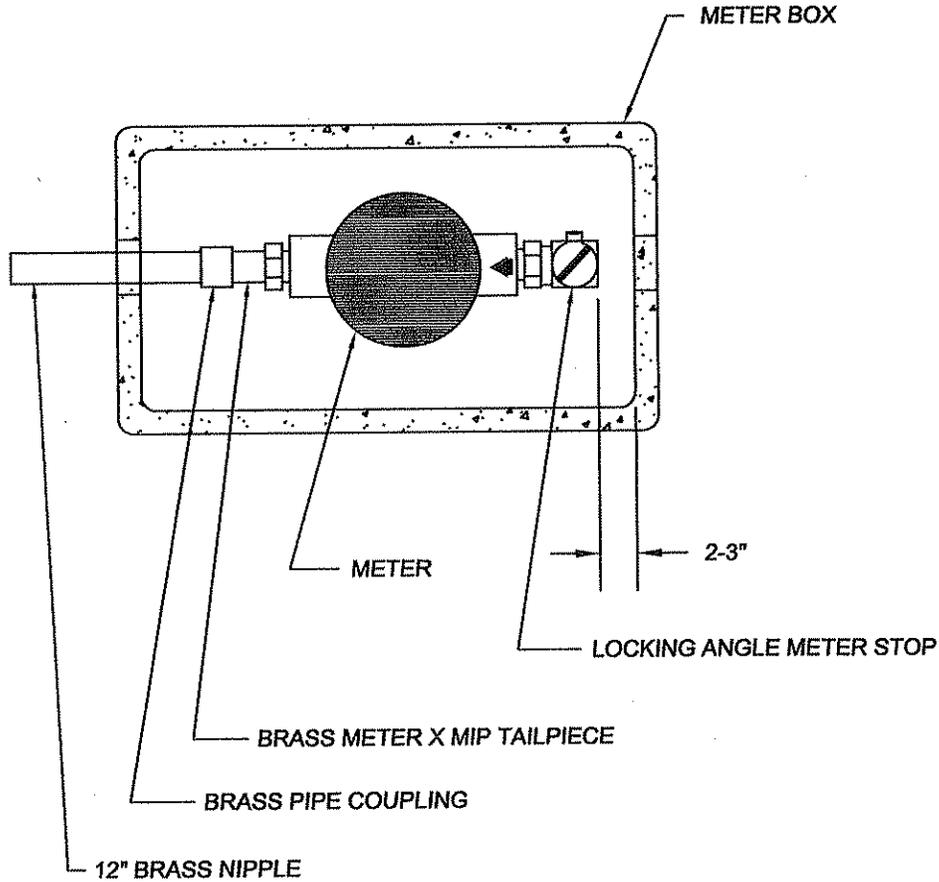
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TYPICAL METER BOX LOCATIONS

<i>JLB</i>		MAR 2011	3
JORGE L. BIAGIONI, PRINCIPAL ENGINEER R.C.E. 33751		DATE	
REVISIONS		STANDARD NO.	
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NOTE:

INSTALL ANGLE METER STOP 8-10" FROM THE TOP OF THE METER BOX.. THE ANGLE METER STOP MUST BE PLACED LEVEL SO THAT THERE IS NO DEFLECTION OF THE METER OR TAIL PIECE ASSEMBLY. THE METER BOX MUST BE POSITIONED TO WHERE THERE IS FROM 2-3' CLEARANCE BETWEEN THE ANGLE METER STOP AND THE STREET SIDE OF THE SERVICE.



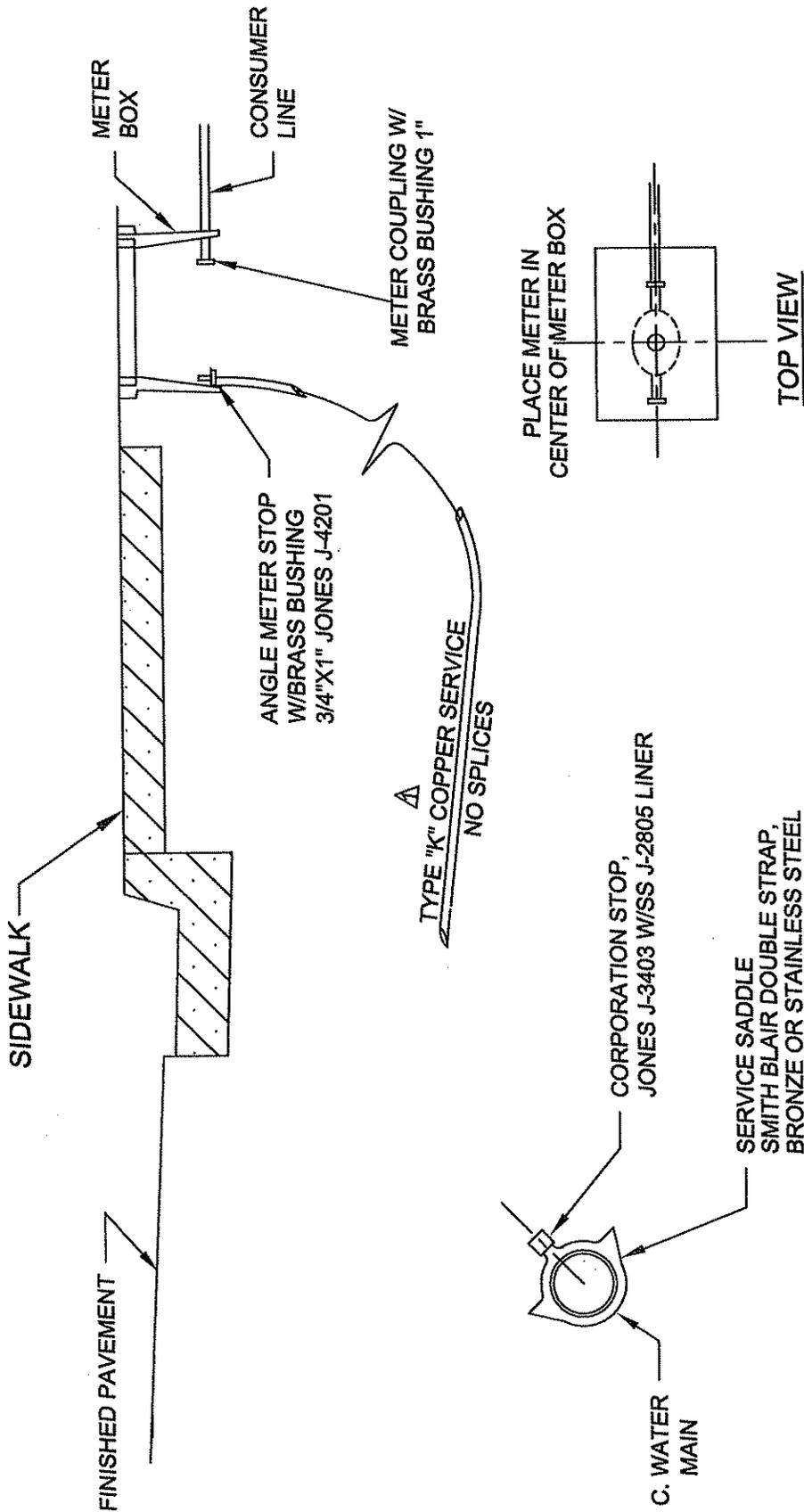
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**STANDARD METER INSTALLATION FOR
 5/8 x 3/4, 1" & 2" METERS**

<i>Michael A. Gow</i>	MAR 2009
MICHAEL A. GOW, PW DIRECTOR/CITY ENG. R.C.E. 54164	DATE
REVISIONS	
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4
 OF 5 SHEETS

**STANDARD NO.
 W-701C**



NOTES:

TURN OFF CORP STOP AND INSTALL BRASS PIPE CAP. REMOVE SERVICE PIPE FROM CORP STOP SO THAT THERE IS NO CONNECTION WITH WATER MAIN. THE SERVICE LINE WILL THEN BE COMPLETELY REMOVED FROM THE GROUND. THIS PROCEDURE WILL BE FOLLOWED FOR ALL TYPES OF SERVICES, PLASTIC, GALVANIZE OR COPPER FROM 3/4" TO 2" IN DIAMETER.



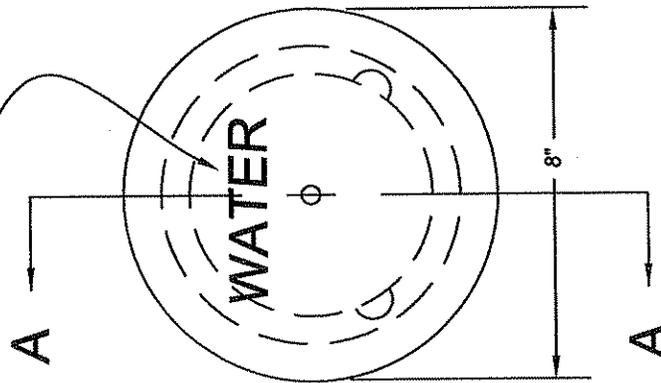
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DELETION OF EXISTING WATER SERVICE

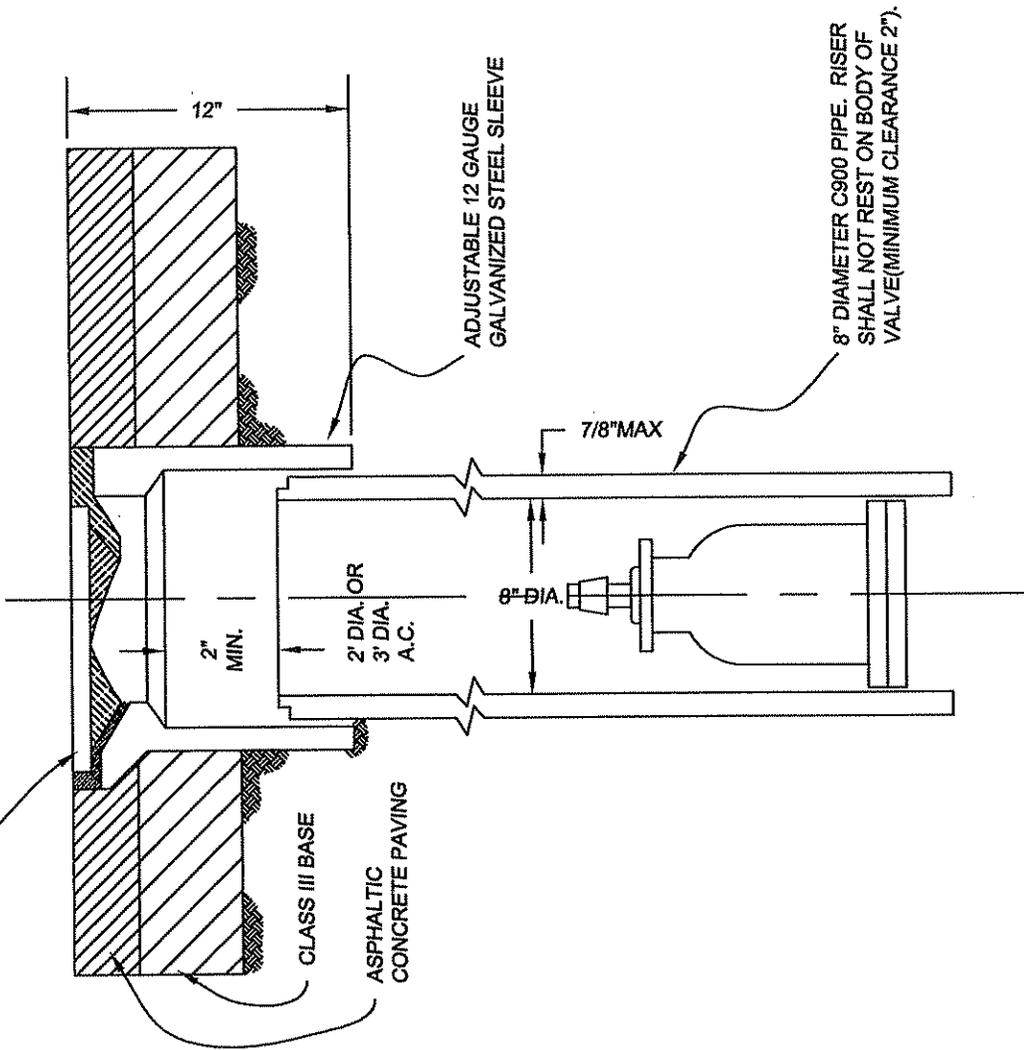
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 OF 5 SHEETS
STANDARD NO.
W-701D

CAST IRON NON-SKID SURFACE
LIFT HOLE, MARKED "WATER",
"SEWER" OR AS REQUIRED.
TRIANGLES ONLY ON FIRE
HYDRANT VALVES.



SOUTH BAY FOUNDRY NO. B52 VALVE BOX & COVER OR EQUAL,
CENTER OVER RISER (INSTALL AFTER PAVING) PAINT UPPER SIDE
OF WATER COVER WITH ONE COAT OF FULLER HEAVY DUTY
ENAMEL NO. 112-14 (1524) BRIGHT YELLOW OR EQUAL.



SECTION A-A

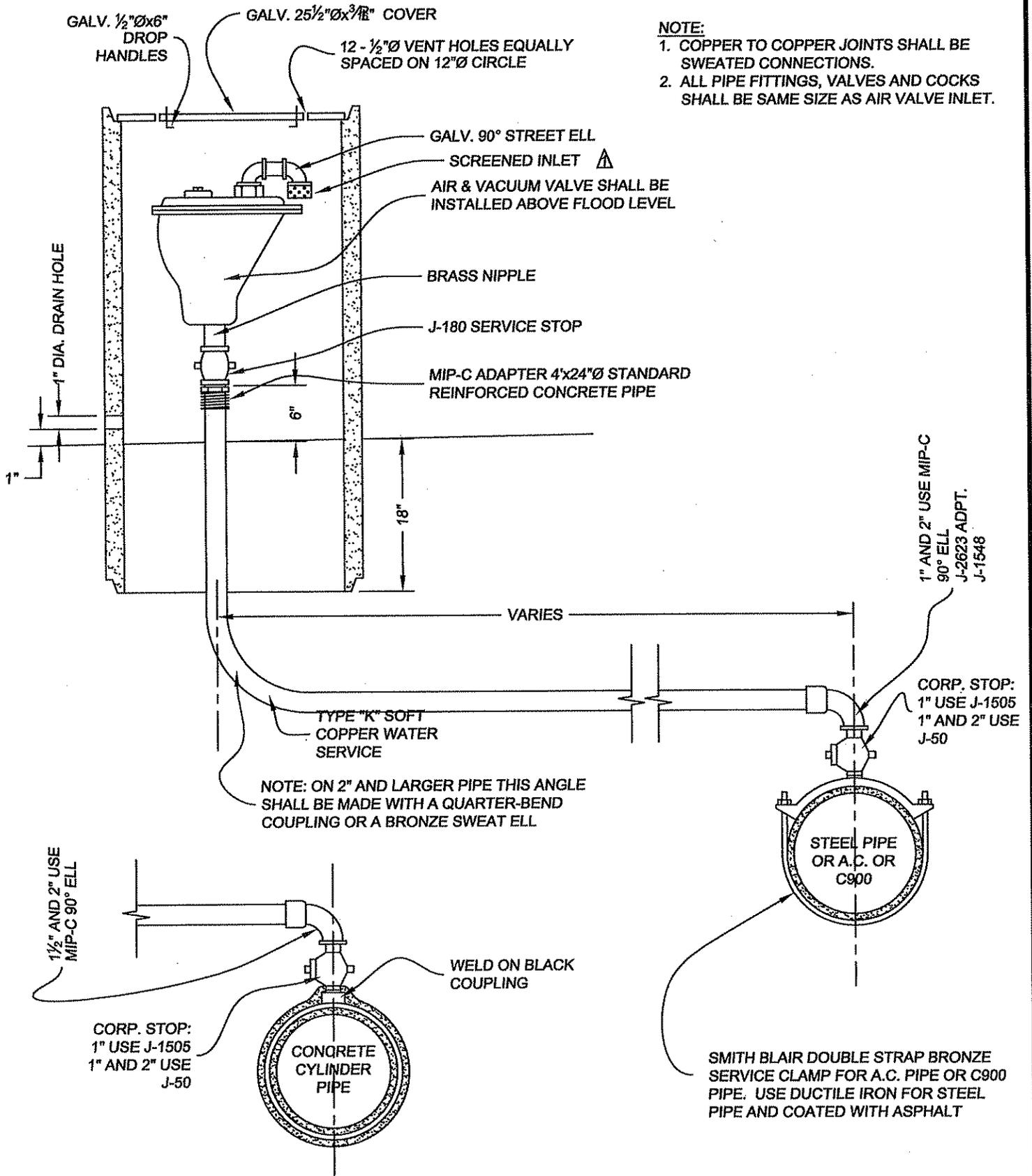


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**INSTALLATION OF VALVE BOX ASSEMBLY
FIRE HYDRANT (ONLY)**

<i>Michael A. Gow</i>	MAR 2009
MICHAEL A. GOW, PW DIRECTOR/CITY ENG. R.C.E. 54164	DATE
REVISIONS	
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N.Beltran 2009	

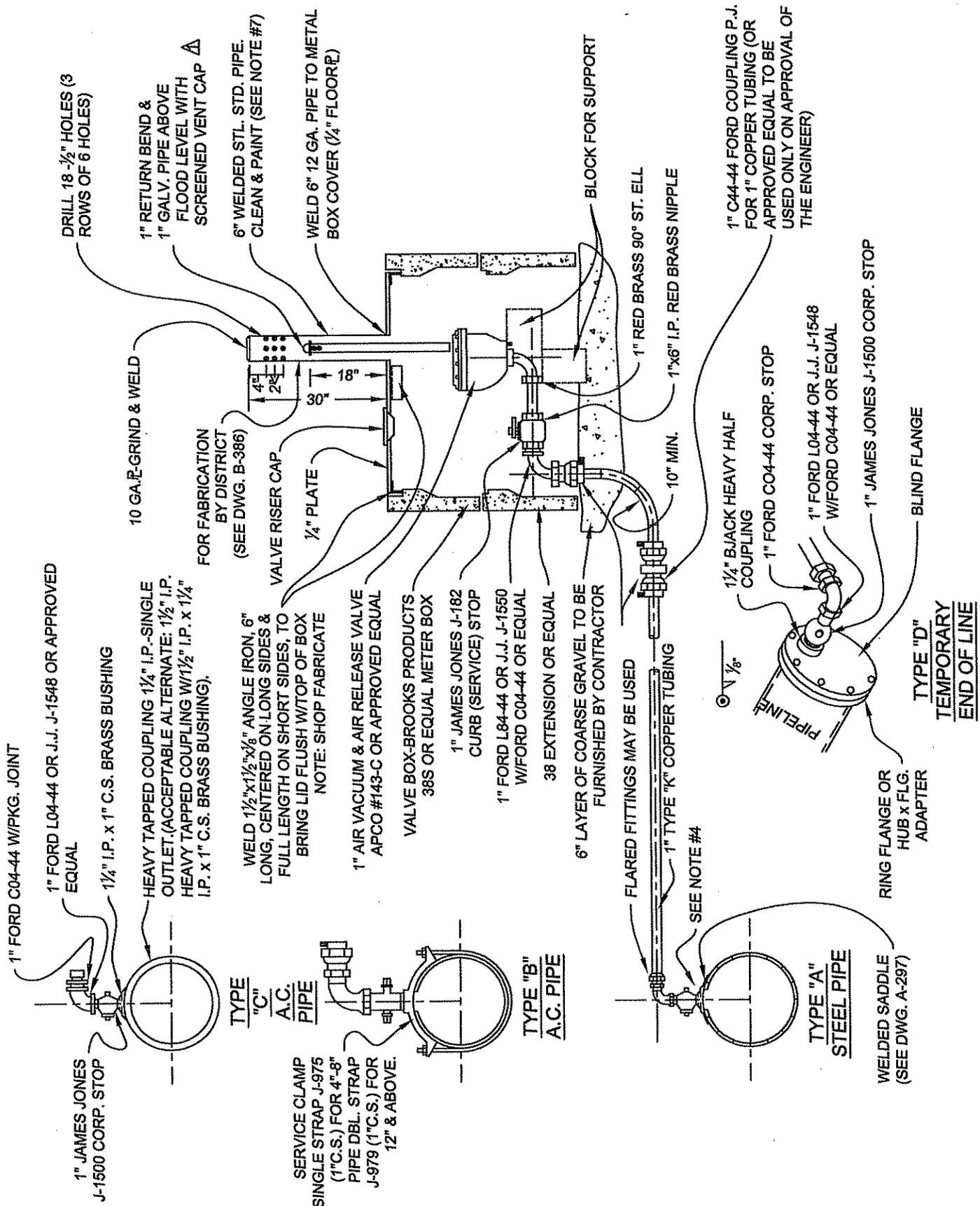
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W-702



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**AIR & VACUUM VALVE
 ASSEMBLY TYPE "A"**

<i>gep</i>	MAR 2011	1
JORGE L. BIAGIONI, PRINCIPAL ENGINEER R.C.E. 33751	DATE	OF 1 SHEETS
REVISIONS		
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DRILL 18 - 1/2" HOLES (3 ROWS OF 6 HOLES)

1" RETURN BEND & 1" GALV. PIPE ABOVE FLOOD LEVEL WITH SCREENED VENT CAP Δ

6" WELDED STL. STD. PIPE. CLEAN & PAINT (SEE NOTE #7)

WELD 6" 12 GA. PIPE TO METAL BOX COVER (1/4" FLOOR)

10 GA. GRIND & WELD

FOR FABRICATION BY DISTRICT (SEE DWG. B-386)

VALVE RISER CAP 1/4" PLATE

1" FORD L04-44 OR J.J. J-1548 OR APPROVED EQUAL

1/4" I.P. x 1" C.S. BRASS BUSHING

HEAVY TAPPED COUPLING 1/4" I.P.-SINGLE OUTLET. (ACCEPTABLE ALTERNATE: 1/2" I.P. HEAVY TAPPED COUPLING W/ 1/2" I.P. x 1/4" I.P. x 1" C.S. BRASS BUSHING).

WELD 1/2"x1 1/2"x3/8" ANGLE IRON, 6" LONG, CENTERED ON LONG SIDES & FULL LENGTH ON SHORT SIDES, TO BRING LID FLUSH W/TOP OF BOX NOTE: SHOP FABRICATE

1" AIR VACUUM & AIR RELEASE VALVE APCO #143-C OR APPROVED EQUAL

VALVE BOX-BROOKS PRODUCTS 38S OR EQUAL METER BOX

1" JAMES JONES J-182 CURB (SERVICE) STOP

1" FORD L84-44 OR J.J. J-1550 W/FORD C04-44 OR EQUAL

3/8 EXTENSION OR EQUAL

6" LAYER OF COARSE GRAVEL TO BE FURNISHED BY CONTRACTOR

FLARED FITTINGS MAY BE USED

1" TYPE "K" COPPER TUBING

SEE NOTE #4

1" RED BRASS 90° ST. ELL

1"x6" I.P. RED BRASS NIPPLE

1/4" BLACK HEAVY HALF COUPLING

1" FORD C04-44 CORP. STOP

1" FORD L04-44 OR J.J. J-1548 W/FORD C04-44 OR EQUAL

1" JAMES JONES J-1500 CORP. STOP

BLIND FLANGE

TYPE "D" TEMPORARY END OF LINE

RING FLANGE OR HUB x FLG. ADAPTER

WELDED SADDLE (SEE DWG. A-297)

TYPE "A" STEEL PIPE

1" JAMES JONES J-1500 CORP. STOP

TYPE "C" A.C. PIPE

SERVICE CLAMP SINGLE STRAP J-975 (1"C.S.) FOR 4"-8" PIPE DBL. STRAP J-979 (1"C.S.) FOR 12" & ABOVE.

TYPE "B" A.C. PIPE



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1" AIR VALVE INSTALLATION
1" COPPER TUBING

<i>JLB</i>		MAR 2011	1
JORGE L. BIAGIONI, PRINCIPAL ENGINEER R.C.E. 33751		DATE	OF 2 SHEETS
REVISIONS			
A MARCH 2011 REVISED GRAPHIC			
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STANDARD NO.
W-704

NOTES:

1. ALL FITTINGS BETWEEN THE CORPORATION STOP AND AIR VALVE SHALL:
 - A. BE MADE OF BRASS OR BRONZE;
 - B. BE MADE OF THE BANDED PATTERN;
 - C. BE DESIGNED FOR A MINIMUM 175 P.S.I. (COLD) WATER WORKING PRESSURE.

2. PRESSURE TEST PRIOR TO WRAPPING & BACK-FILLING.

3. ALTERNATE MATERIALS MAY BE USED UPON APPROVAL OF THE ENGINEER.

4. CORPORATION STOP & FITTINGS AT THE PIPELINE SHALL PRIMED & WRAPPED WITH PROTECTO-WRAP NO.200 COAL TAR RESIN TAPE, OR EQUAL.

5. ALL SERVICE PIPE & TUBING SHALL BE LAID ON A CONSTANT SLOPE UP FROM THE WATER MAIN TO THE METER. NO DIPS OR POCKETS WILL BE PERMITTED.

6. THREAD NOTATION SHOWN THUS:
 - I.P. = IRON PIPE THREAD
 - C.S. = CORPORATION STOP (MUELLER) THREAD
 - P.J. = PAINT JOINT

7. VALVE BOX COVER & RISER TO BE PAINTED SHERWIN-WILLIAMS #BM73-26 TAN OR APPROVED EQUAL.

8. PLACEMENT OF VALVE BOX:
 - A. PLACE FRONT EDGE OF VALVE BOX 1.5' BEHIND EXISTING OR PROPOSED 6' OR 8' SIDEWALKS.
 - B. WHEN PROPOSED OR EXISTING SIDEWALK IS 12' WIDE, PLACE FRONT EDGE OF BOX 1.5' BEHIND CURB USING APPROPRIATE BOX.
 - C. WHEN NO SIDEWALK IS PROPOSED, PLACE FRONT EDGE OF BOX 7.5' BEHIND CURB.
 - D. WHEN NO CURB ARE EXISTING OR TO BE INSTALLED UPON COMPLETION OF THE WATER SYSTEM, PLACE BACK EDGE OF VALVE BOX ON PROPERTY LINE.



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**1" AIR VALVE INSTALLATION
 1" COPPER TUBING**

	MAR 2011
JORGE L. BIAGONI, PRINCIPAL ENGINEER R.C.E. 33751	DATE
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2
 OF 2 SHEETS
**STANDARD NO.
 W-704A**

BROOKS NO. 38 CONCRETE METER BOX WITH STEEL COVER AND EXTENSION

GALV. 90° STREET ELL
SCREENED INLET Δ

AIR & VACUUM VALVE SHALL BE INSTALLED ABOVE FLOOD LEVEL

BRASS NIPPLE

J-180 SERVICE STOP

MIP-C ADAPTER 4"x24" Ø
STANDARD REINFORCED CONCRETE PIPE

TYPE "K" SOFT COPPER WATER SERVICE

NOTE: ON 2" AND LARGER PIPE THIS ANGLE SHALL BE MADE WITH A QUARTER-BEND COUPLING OR A BRONZE SWEAT ELL.

PROVIDE 4-3/4" HOLES IN STEEL COVER

2% MAX

DO NOT FLATTEN AT BEND

VARIABLES

TYPE "K"

1" AND 2" USE MIP-C 90° ELL

CORP. STOP:
1" USE J-1505 1"
AND 2" USE
J-50

SMITH BLAIR DOUBLE STRAP BRONZE SERVICE CLAMP FOR A.C. PIPE. USE DUCTILE IRON FOR STEEL PIPE AND COATED WITH ASPHALT

STEEL PIPE OR A.C.

4" PCC SIDEWALK

2% MAX

CONCRETE CURB AND GUTTER



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AIR & VACUUM VALVE ASSEMBLY TYPE "B"

JEP

JORGE L. BIAGIONI, PRINCIPAL ENGINEER R.C.E. 33751

MAR 2011

DATE

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A MAR 2011 REVISED GRAPHIC

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1

OF 2 SHEETS

**STANDARD NO.
W-705**

1" AND 2" USE
MIP-C 90° ELL

TYPE "K"

WELD ON BLACK
COUPLING

CORP. STOP:
1" USE J-1505
1" AND 2" USE
J-50

CONCRETE
CYLINDER
PIPE

NOTE:

1. COPPER TO COPPER JOINTS SHALL BE SWEATED CONNECTIONS.
2. ALL PIPE FITTINGS, VALVES AND COCKS SHALL BE SAME SIZE AS AIR VALVE INLET.



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**AIR VACUUM VALVE
ASSEMBLY TYPE "B"**

Michael A. Gow

MICHAEL A. GOW, PW DIRECTOR/CITY ENG. R.C.E. 54164

MAR 2009

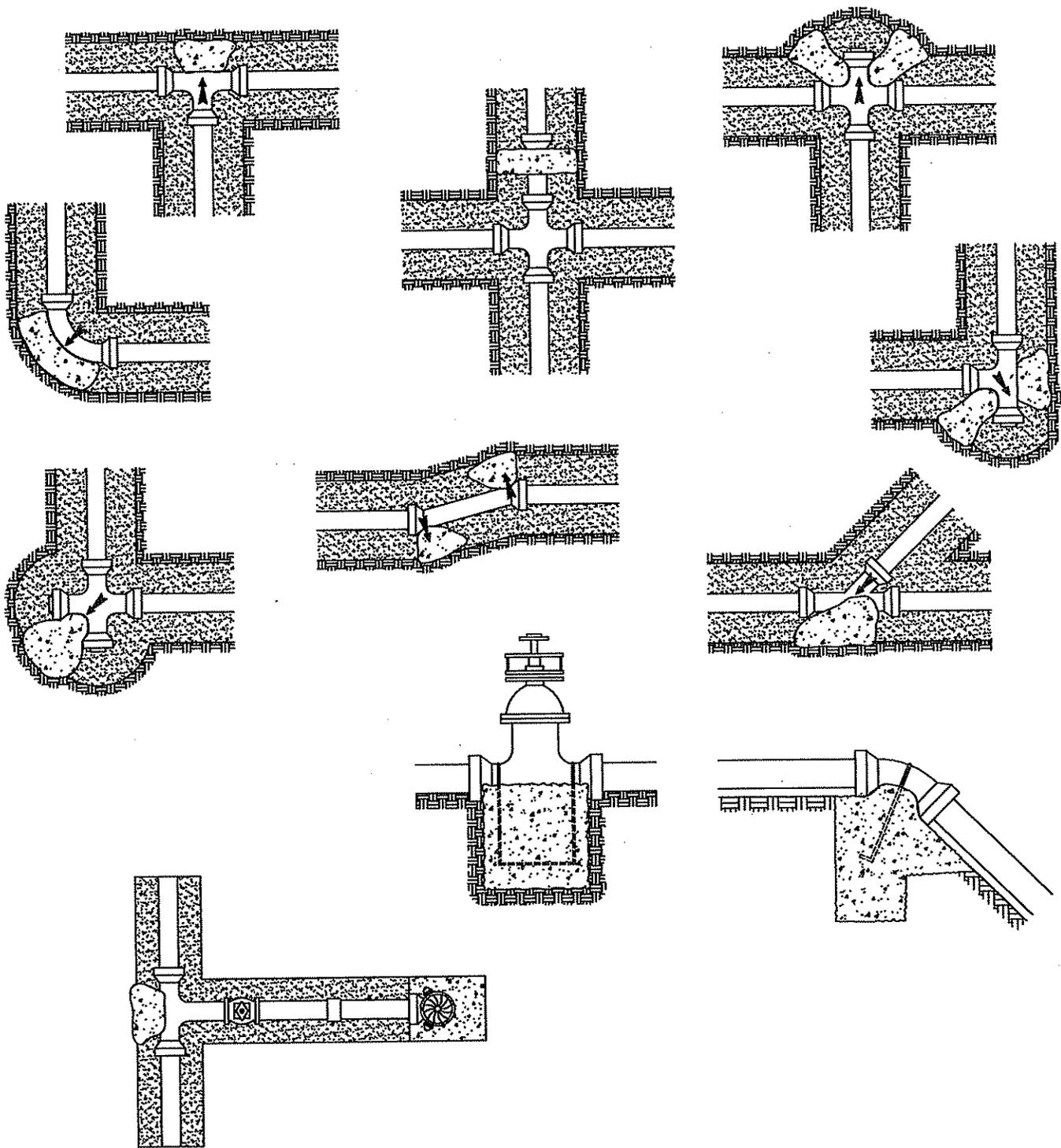
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2

OF 2 SHEETS

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STANDARD NO.
W-705A



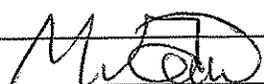
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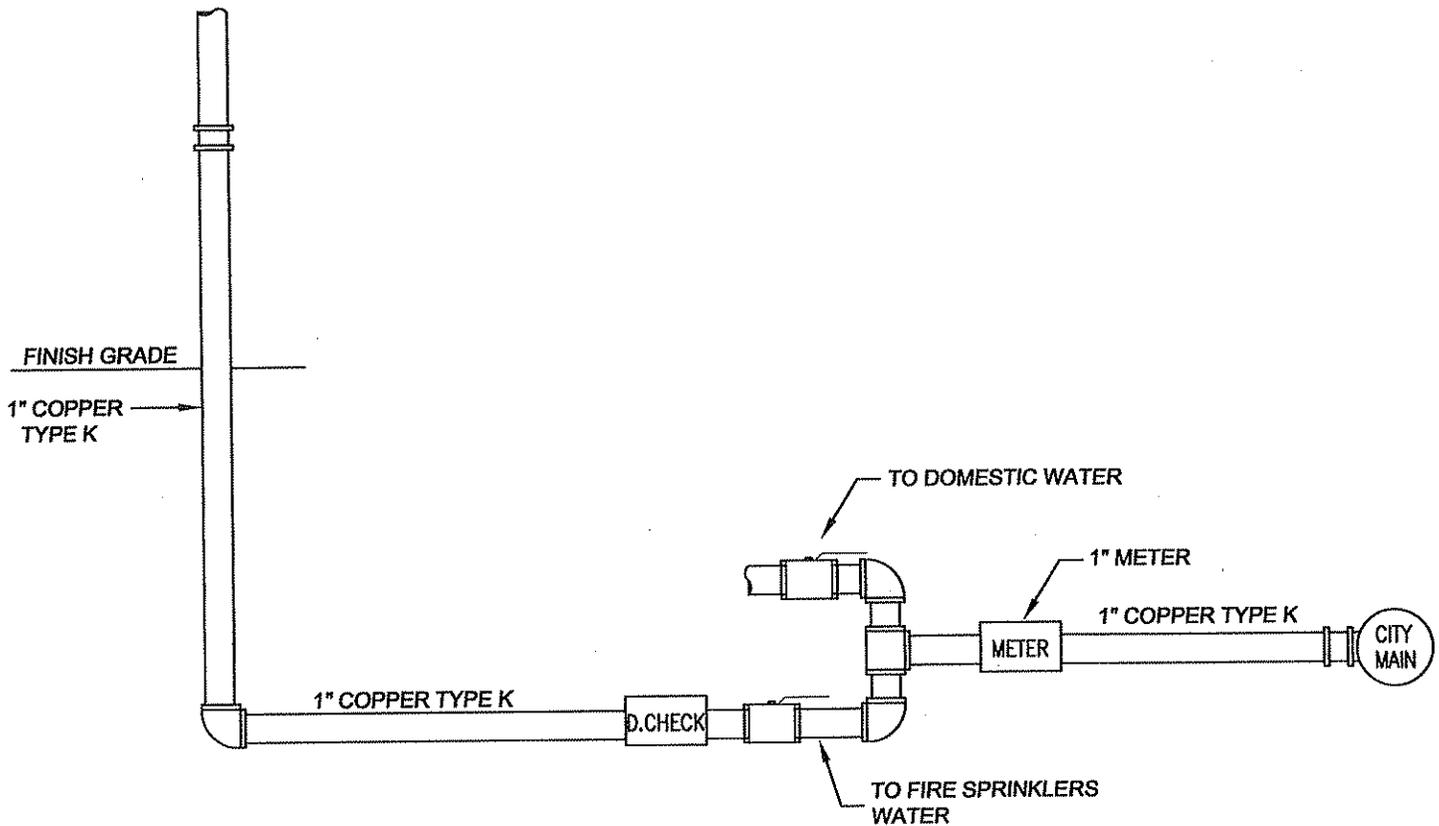
1. THRUST BLOCKS SHALL BE INSTALLED IN ACCORDANCE WITH THE PIPE MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.
2. CONCRETE THRUST BLOCKS SHALL BE POURED AGAINST UNDISTURBED EARTH.
3. CONCRETE THRUST BLOCKS SHALL BE OF 5½ SACK MIX CONCRETE.
4. ALL CONCRETE SHALL BE POURED TO AVOID INTERFERENCE WITH BOLTED CONNECTIONS.
5. MECHANICAL RESTRAINTS MAY BE REQUIRED BY THE CITY ENGINEER.



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**TYPICAL THRUST BLOCK
 INSTALLATION**

		MAR 2009	<u>1</u>	
MICHAEL A. GOW, PW DIRECTOR/CITY ENG. R.C.E. 54164		DATE	OF 1 SHEETS	
REVISIONS			STANDARD NO. W-706	
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UNDERGROUND DETAIL
N.T.S.

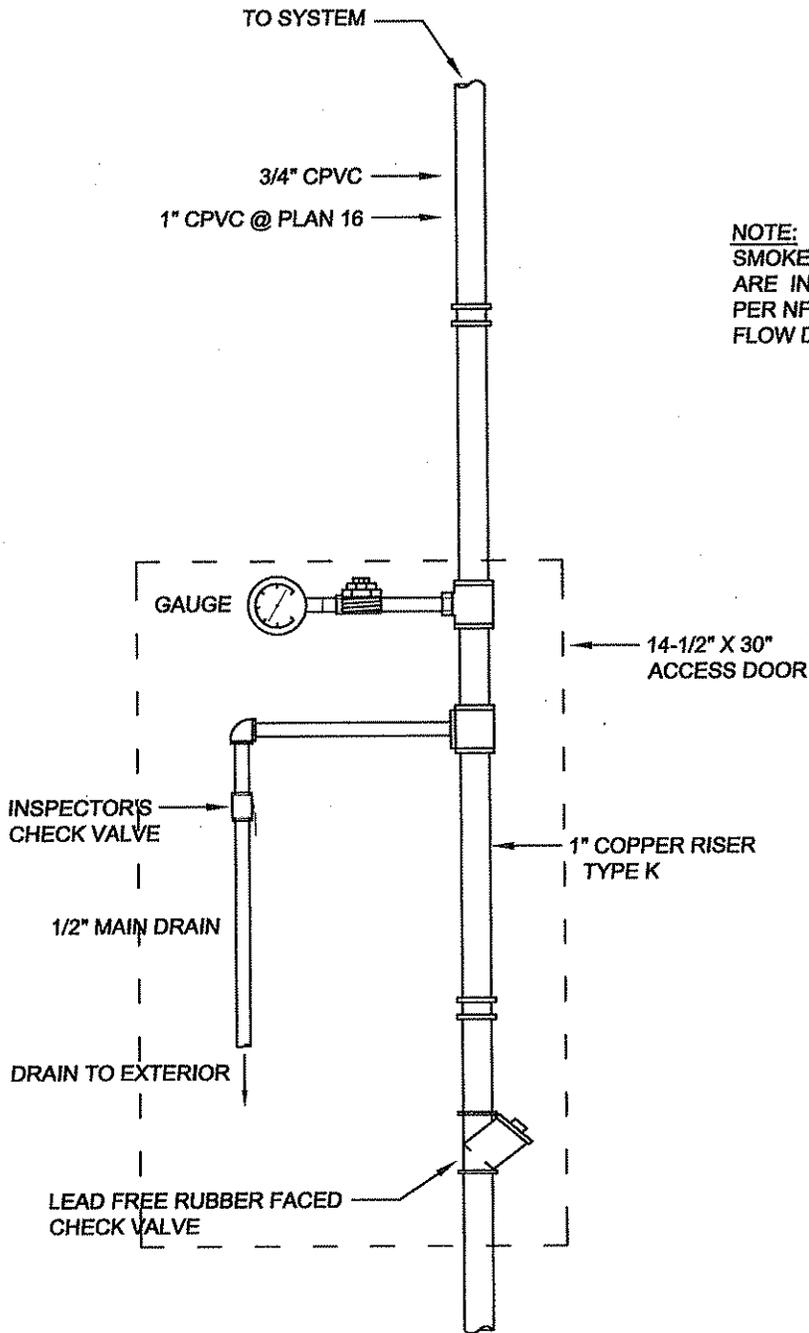


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**FIRE SPRINKLERS
SERVICE CONNECTION**

		MAR 2011
JORGE L. BIAGIONI, PRINCIPAL ENGINEER R.C.E. 33751		DATE
REVISIONS		
N:\PW\4100\COH_STDS\REVISIONS\WATER\W-703.dwg		N.Beltran 2011

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OF **1** SHEETS
STANDARD NO.
W-707A



NOTE:
 SMOKE ALARMS OR DETECTORS
 ARE INSTALLED PER NFPA 72.
 PER NFPA 13D, 2010 ED. - WATER
 FLOW DETECTOR NOT REQUIRED.

RISER DETAIL
 N.T.S.



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**FIRE SPRINKLERS
 SERVICE RISER DETAIL**

Jorge L. Biagioni

JORGE L. BIAGIONI, PRINCIPAL ENGINEER R.C.E. 33751

MAR 2011

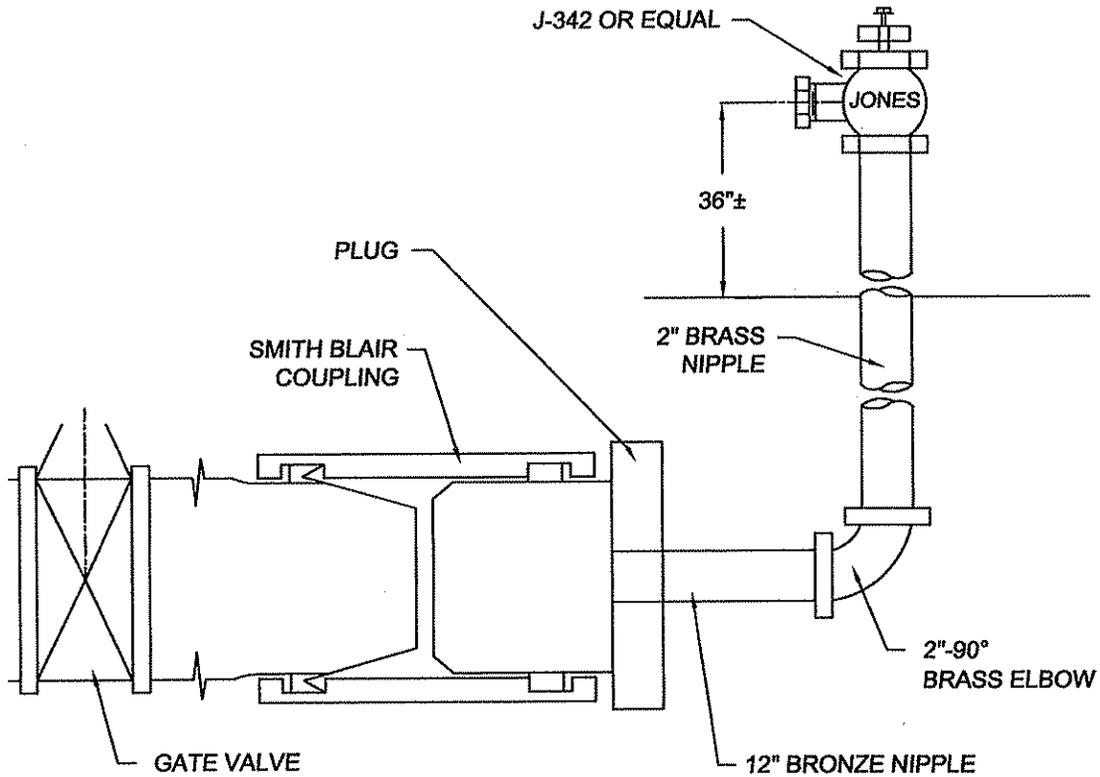
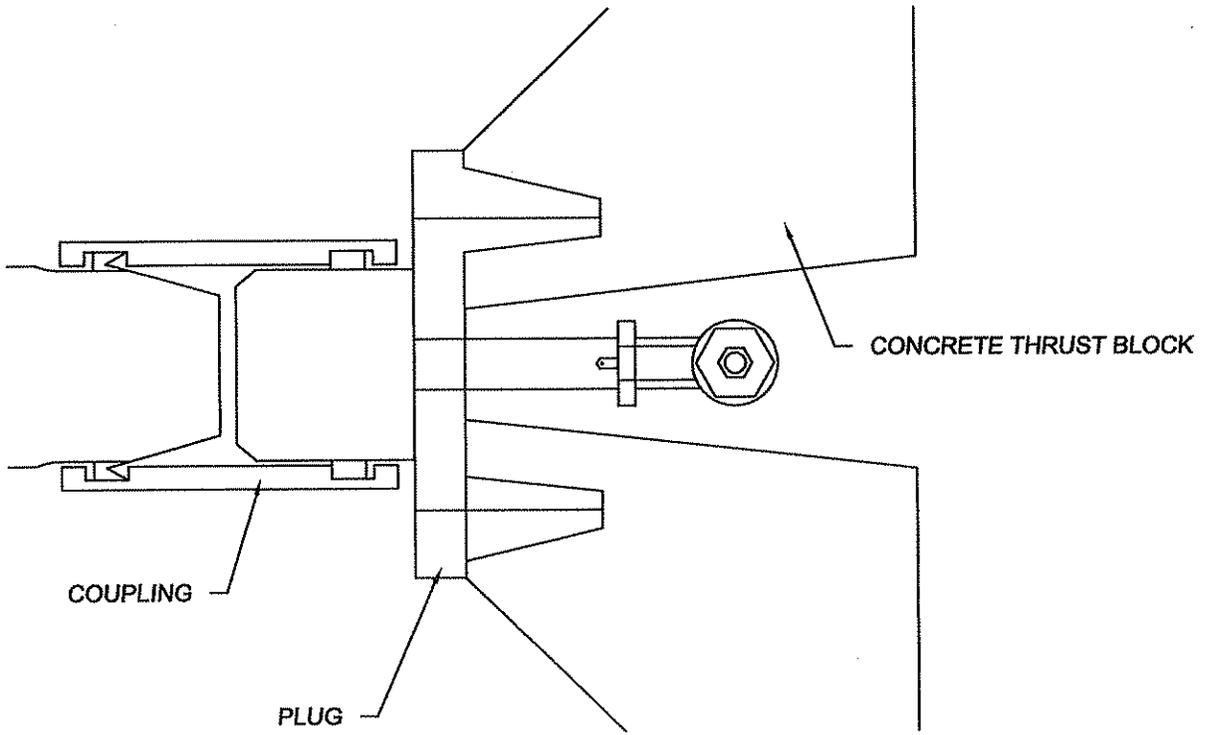
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STANDARD NO.
W-707B



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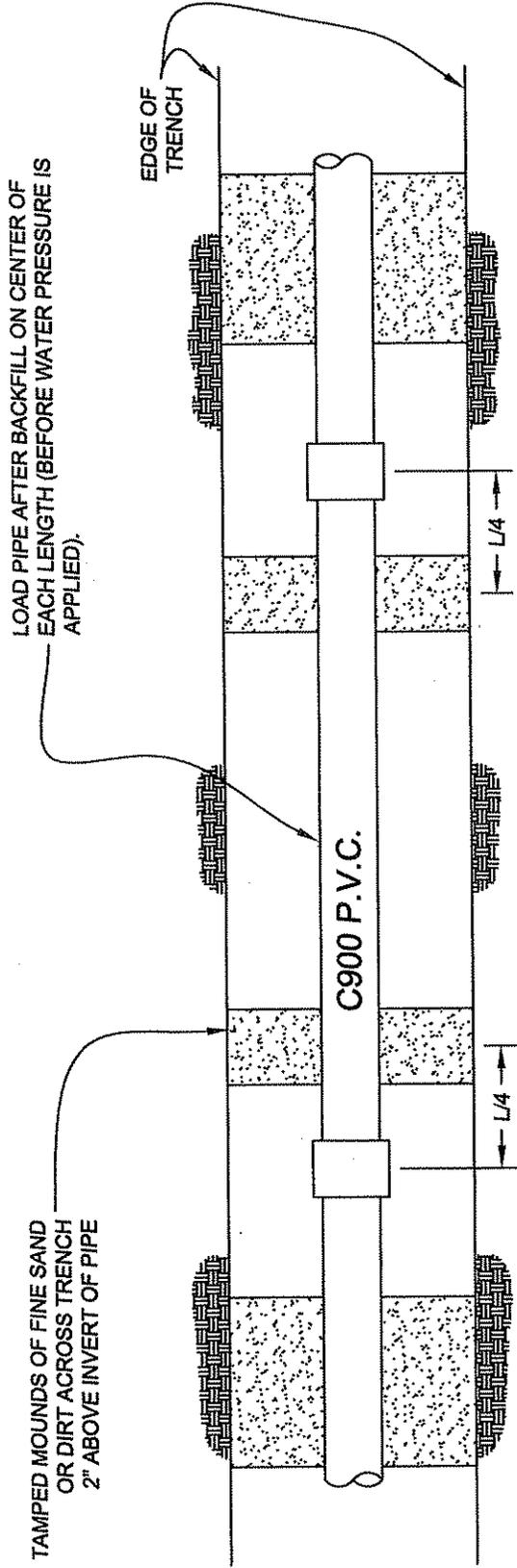
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**WATER MAIN
 FLUSHER ASSEMBLY**

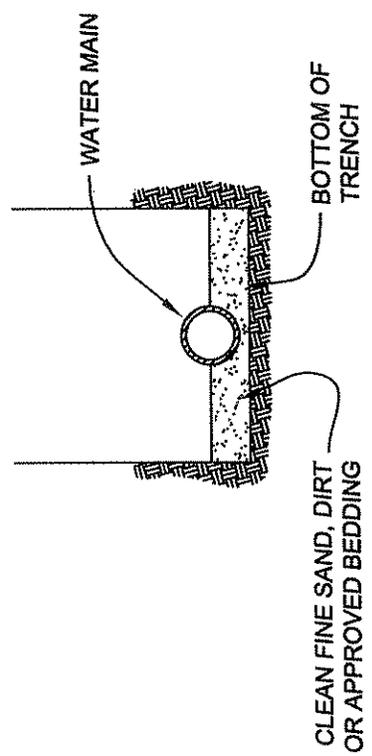
Michael A. Gow
 MICHAEL A. GOW, PW DIRECTOR/CITY ENG. R.C.E. 54164
 MAR 2009
 DATE

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 OF 1 SHEETS
**STANDARD NO.
 W-708**



TYPICAL WATER MAIN INSTALLATION



END VIEW

TRENCH WIDTHS AT TOP LEVEL OF PIPE

PIPE SIZE (IN INCHES)	TRENCH WIDTH (IN INCHES)	MINIMUM	* MAXIMUM
4	18	28	
6-8	20	32	
10-12	24	36	
14-16	30	42	

* WIDTHS SHOULD BE MAINTAINED WITHIN THESE LIMITS. WHEREVER, IT SEEMS NECESSARY TO EXCEED THESE LIMITS, PROVISION SHOULD BE MADE FOR THE ADDITIONAL LOAD IMPOSED ON THE PIPE.

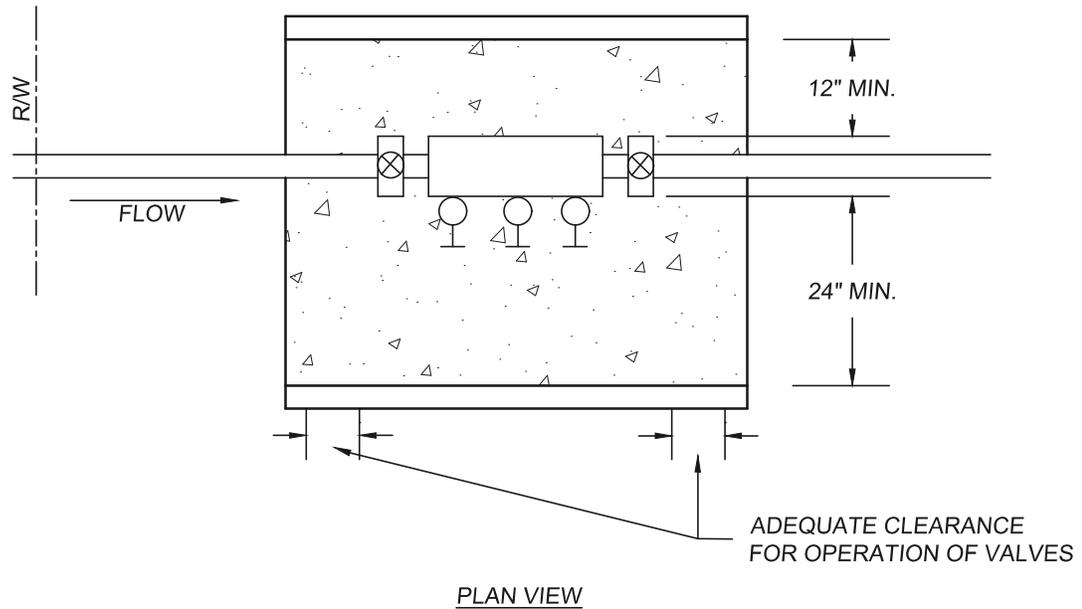
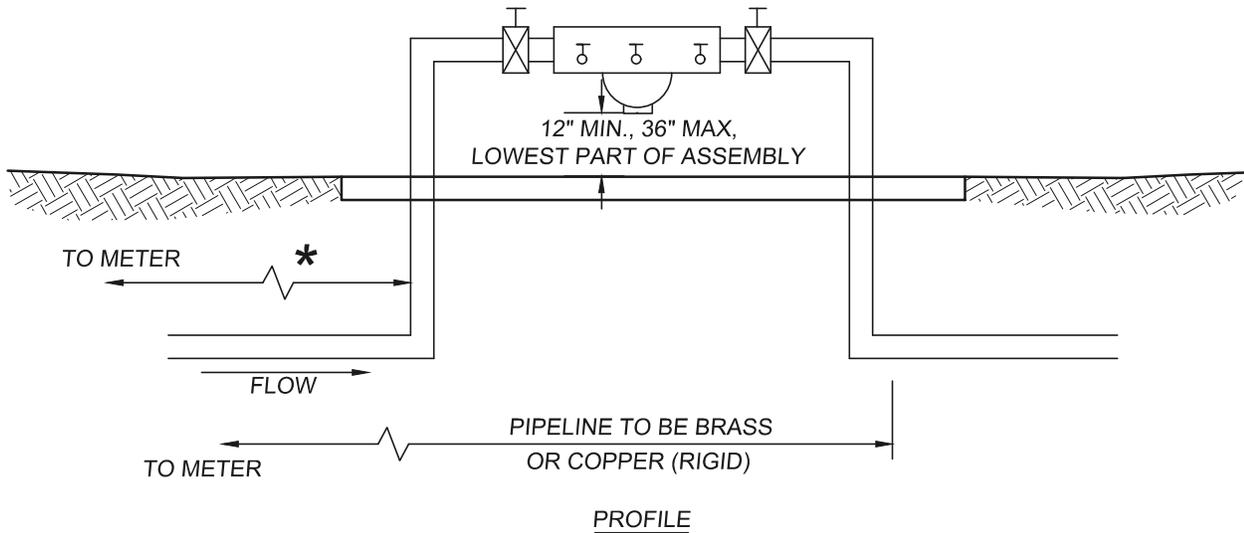


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TYPICAL WATER MAIN INSTALLATION

Michael A. Gow
 MICHAEL A. GOW, PW DIRECTOR/CITY ENG. R.C.E. 54164
 MAR 2009
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W-709



NOTES:

1. MINIMUM REQUIREMENTS ACCEPTED WILL BE A REDUCED PRESSURE PRINCIPLE ASSEMBLY.
2. FIRE SERVICE SHALL HAVE REDUCED PRESSURE DEVICE ASSEMBLY.
3. PIPELINE BETWEEN THE METER AND THE ASSEMBLY MUST BE WRAPPED AND ENCASED IN 1 SACK SLURRY, IF NOT WITHIN 1 FOOT OF METER BOX, (*).
4. SIZES 3" AND LARGER SHALL HAVE ADDITIONAL PIPE SUPPORT.
5. BACKFLOW ASSEMBLY TO BE THE SAME SIZE OR ONE SIZE LARGER THAN THE METER.



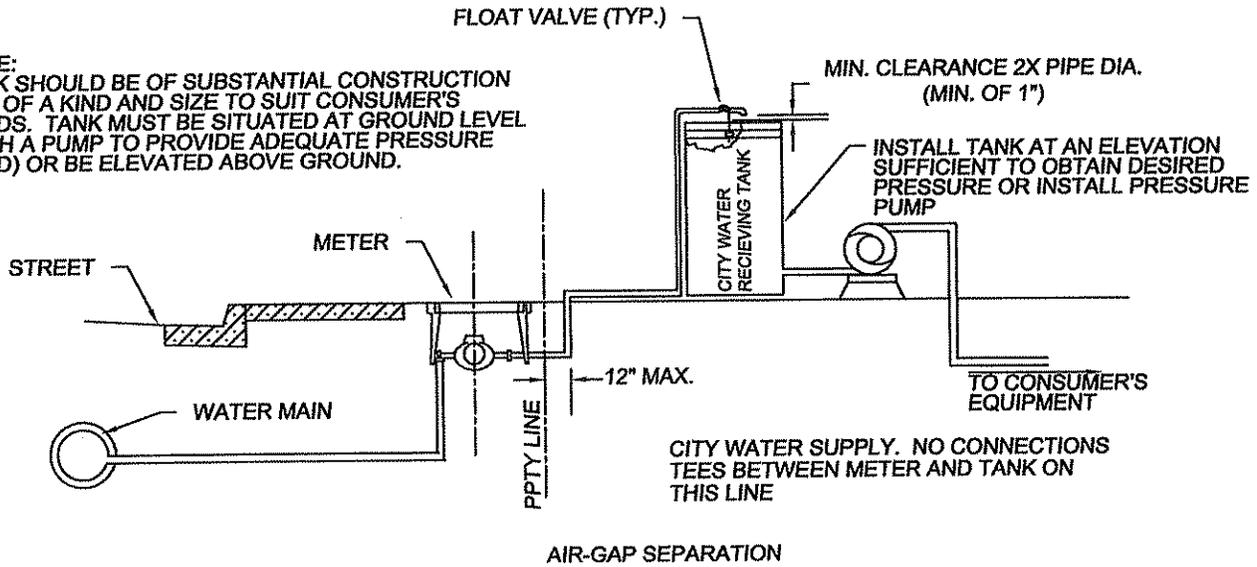
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INSTALLATION OF BACKFLOW ASSEMBLIES

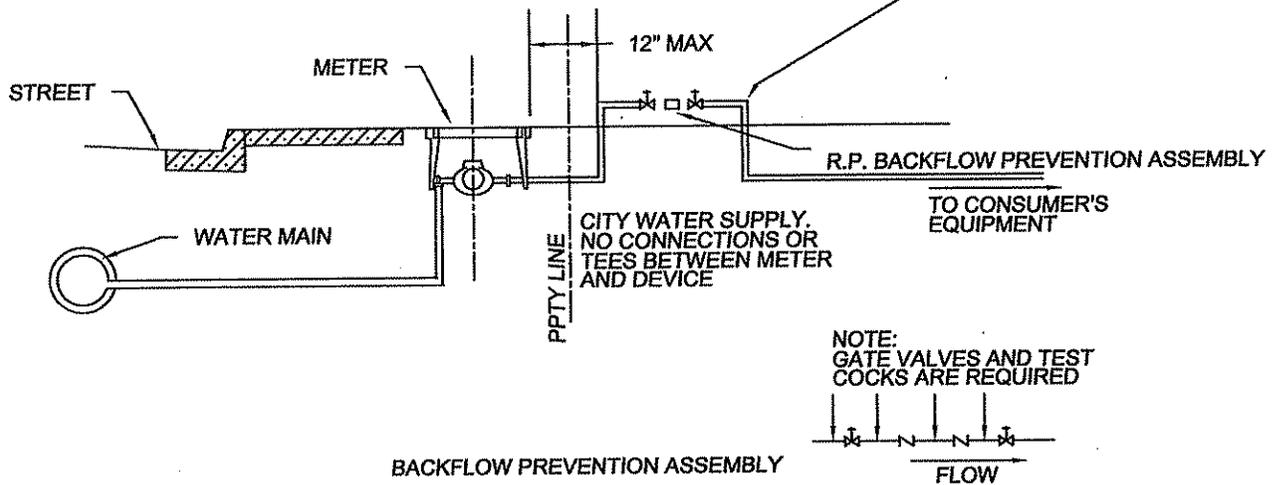
<i>Noah Rau</i>	MAY 2022
NOAH RAU, R.C.E. 74686, PUBLIC WORK DIRECTOR/CITY ENGINEER	DATE
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STANDARD NO.
W-710

NOTE:
TANK SHOULD BE OF SUBSTANTIAL CONSTRUCTION AND OF A KIND AND SIZE TO SUIT CONSUMER'S NEEDS. TANK MUST BE SITUATED AT GROUND LEVEL (WITH A PUMP TO PROVIDE ADEQUATE PRESSURE HEAD) OR BE ELEVATED ABOVE GROUND.



PLACE VALVE 12" MIN. 36" MAX ABOVE HIGH WATER LEVEL OF SURROUNDING GROUND



NOTES:

THE AIR-GAP SEPERATION OR THE MECHANICAL BACKFLOW PREVENTION ASSEMBLY SHALL BE INSTALLED SUBJECT TO APPROVAL OF WATER SUPERINTENDENT OR HIS OR HER AGENT. ANY DEVIATIONS FROM THE METHODS DESCRIBED MUST BE APPROVED PRIOR TO INSTALLATION. ALL MECHANICAL BACKFLOW PREVENTION ASSEMBLIES APPROVED BY WATER SUPERINTENDENT OR HIS OR HER AGENT FOR INSTALLATION AT THE SERVICE CONNECTION HAVE BEEN EVALUATED AND BY THE FOUNDATION FOR CROSS-CONNECTION CONTROL AND HYDRAULIC RESEARCH, UNIVERSITY OF SOUTHERN CALIFORNIA AND APPROVED BY THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES. ALL WATER FACILITIES AND DEVICES SHALL BE TESTED AND APPROVED FOR USE PRIOR TO PROTECT FINAL ACCEPTANCE REMOVAL OF ANY APPROVED WATER FACILITY MAY RESULT IN A FINE. THE ONLY ACCEPTED ASSEMBLY FOR SERVICE PROTECTION WILL BETHE REDUCED PRESSURE ASSEMBLY OR AIR GAP.

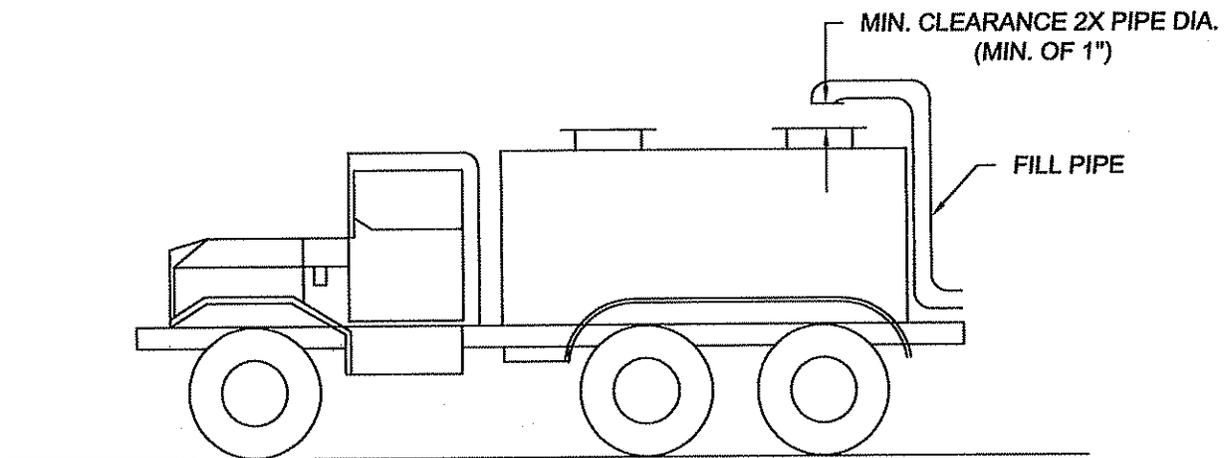
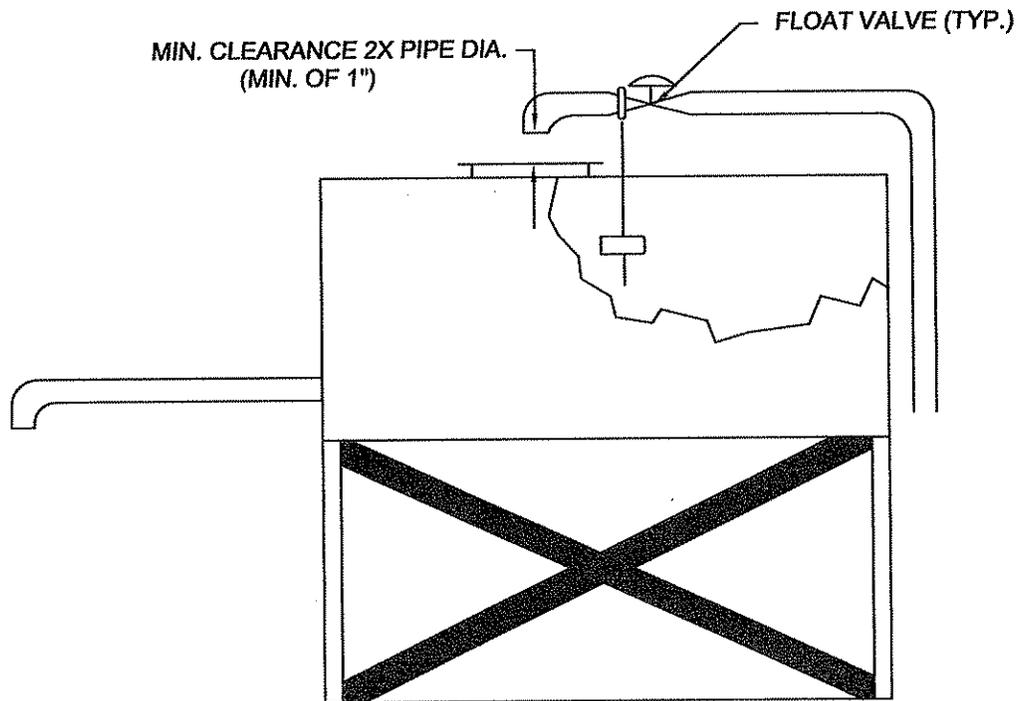


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INSTALLATION OF AIR GAP SEPERATION OR BACKFLOW PREVENTION DEVICE

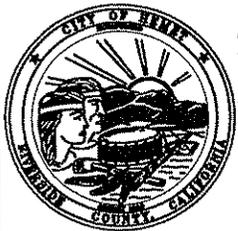
<i>Michael A. Gow</i>	MAR 2009
MICHAEL A. GOW, PW DIRECTOR/CITY ENG. R.C.E. 54164	DATE
REVISIONS	
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STANDARD NO.
W-711



NOTES:

1. ALL WATER TRUCKS AND TANKS USING CITY OF HEMET FIRE HYDRANTS WILL BE REQUIRED TO BE INSPECTED BY UTILITY DEPARTMENT FOR PROPER AIR GAP.

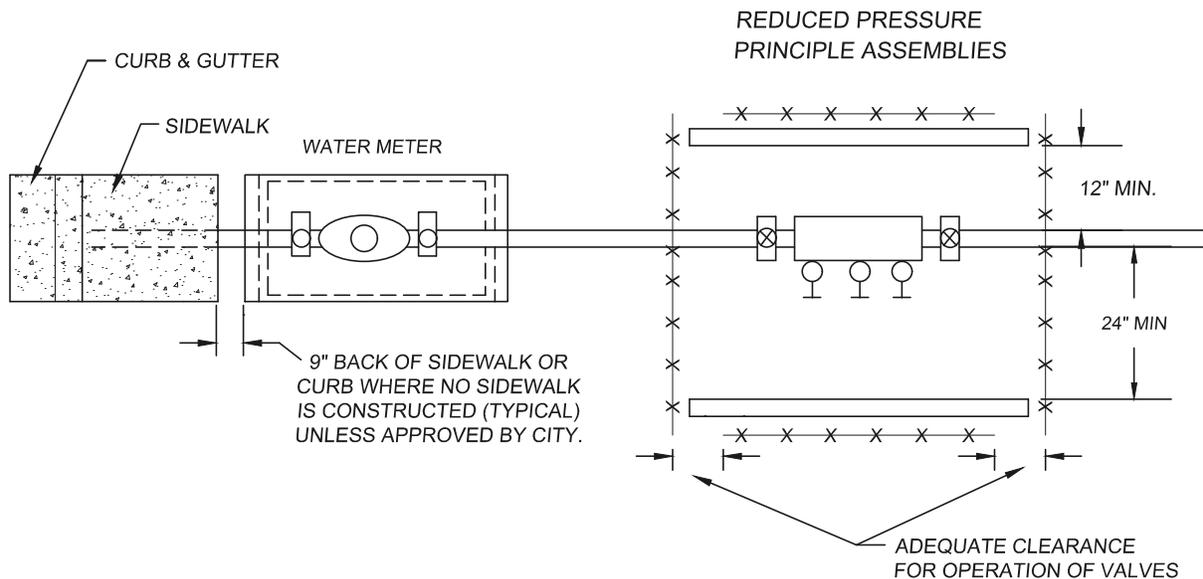
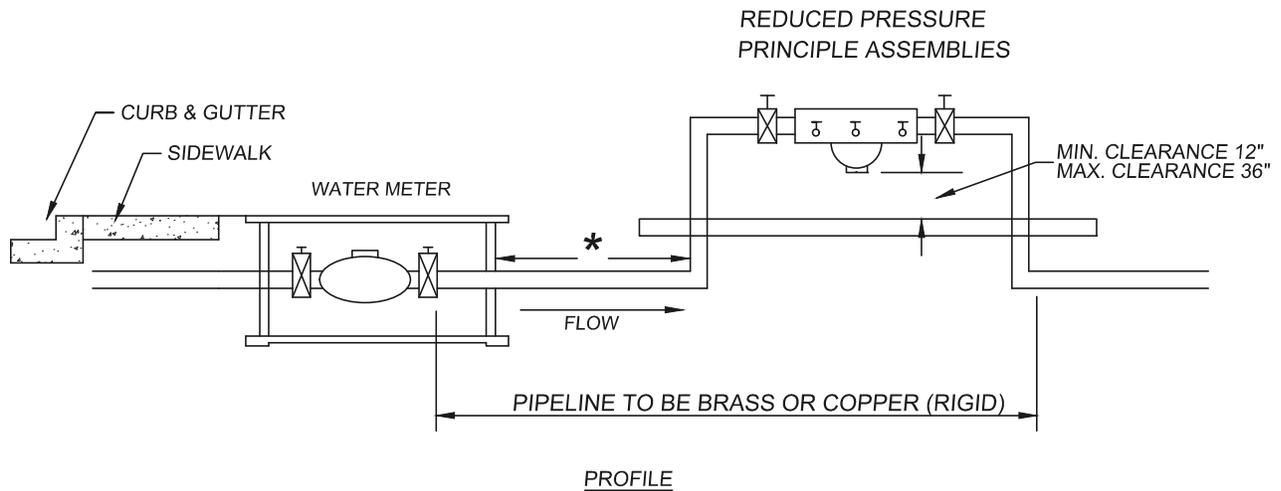


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**AIR GAP SEPARATION
 FOR WATER TANKS**

	MAR 2009
MICHAEL A. GOW, PW DIRECTOR/CITY ENG. R.C.E. 54164	DATE
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W-712



NOTES:

1. PIPELINE BETWEEN THE METER AND THE ASSEMBLY MUST BE WRAPPED AND ENCASED IN 1 SACK CEMENT SLURRY, IF NOT WITHIN 1 FOOT OF METER BOX, (*).
2. SEPARATE FIRE SERVICE SHALL HAVE A REDUCED PRESSURE DEVICE ASSEMBLY (RPDA).
3. SIZES 3" AND LARGER SHALL HAVE ADDITIONAL PIPE SUPPORT.
4. BACKFLOW ASSEMBLY TO BE THE SAME SIZE OR ONE SIZE LARGER THAN THE METER.



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**INSTALLATION OF BACKFLOW ASSEMBLIES
 RESIDENTIAL AND COMMERCIAL**

Noah Rau MAY 2022
 NOAH RAU, R.C.E. 74868, PUBLIC WORK DIRECTOR/CITY ENGINEER DATE

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STANDARD NO.
W-713

LANDSCAPE AND IRRIGATION REQUIREMENTS

IN ALL PARKWAYS, MEDIAN STRIPS AND OTHER AREAS OF PUBLIC RIGHT-OF-WAY WHERE LANDSCAPING AND/OR IRRIGATION INSTALLATION IS REQUIRED, THE FOLLOWING REQUIREMENTS APPLY UNLESS SPECIFICALLY MODIFIED IN WRITING BY THE CITY ENGINEER.

1. PRIOR TO INSTALLATION OF ANY IRRIGATION SPRINKLER SYSTEM OR LANDSCAPING, PLANS SHALL BE SUBMITTED TO THE CITY ENGINEER FOR REVIEW AND APPROVAL.
2. UNLESS OTHERWISE STATED, ALL INSTALLATION OF LANDSCAPING AND IRRIGATION EQUIPMENT WITHIN THE PUBLIC RIGHT-OF-WAY SHALL CONFORM TO SECTION 308 OF THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION," CURRENT EDITION.
3. ALL IRRIGATION SYSTEMS PIPE ON THE DISCHARGE SIDE OF THE CONTROL VALVE SHALL BE A MINIMUM OF SCHEDULE 40 CLASS.
4. ALL IRRIGATION SYSTEM PIPE ON THE CONTINUOUSLY PRESSURIZED SIDE OF THE CONTROL VALVE SHALL BE A MINIMUM OF SCHEDULE 80 CLASS.
- △ 5. THE IRRIGATION SYSTEM SHALL CONTAIN A REDUCED PRESSURE PRINCIPLE ASSEMBLY, ON A SEPARATE HOT TAP AT THE WATER MAIN.
6. ALL SPRINKLERS INSTALLED IN THE PARKWAY MUST BE INSTALLED ADJACENT TO A WALL OR FENCE AND NOT TO THE SIDEWALK.
7. ALL AUTOMATIC CONTROLLER SHALL BE RAINBIRD R.C. SERIES OR TORO SERIES IN VANDAL PROOF BOXES.
8. PARKWAYS MUST BE FREE OF ALL DEBRIS (ASPHALT, ROCKS, CONCRETE, TRASH), AND EXISTING SOIL MUST BE ROTOTILLED TO A DEPTH OF 4"-6" PRIOR TO ANY APPLICATION OF SOIL FUMIGANT (VAPAM) AND INSTALLATION OF PLANT MATERIAL.
9. PRIOR TO INSTALLATION OF ANY PLANT MATERIAL A "WARRANTY OF APPLICATION" OF SOIL FUMIGANT (FROM THE APPLICATOR) MUST BE COMPLETED AND SUBMITTED TO THE PARK SUPERVISOR.
10. DEVELOPER OR PROPERTY OWNER IS RESPONSIBLE FOR MAINTENANCE AND REPLACEMENT (IF NECESSARY) OF TREES, LANDSCAPING AND IRRIGATION EQUIPMENT, WITHIN THE PARKWAY FOR ONE YEAR AFTER THE DATE OF ACCEPTANCE BY THE CITY COUNCIL.
11. SERVICE PEDESTAL SHALL BE PER CITY STD. G-808A.



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LANDSCAPE AND IRRIGATION REQUIREMENTS

Jep

JORGE L. BIAGIONI, PRINCIPAL ENGINEER R.C.E. 33751

MAR 2011

DATE

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OF 1 SHEETS

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△ MARCH 2011 REVISED NOTE 5.

STANDARD NO.

W-714

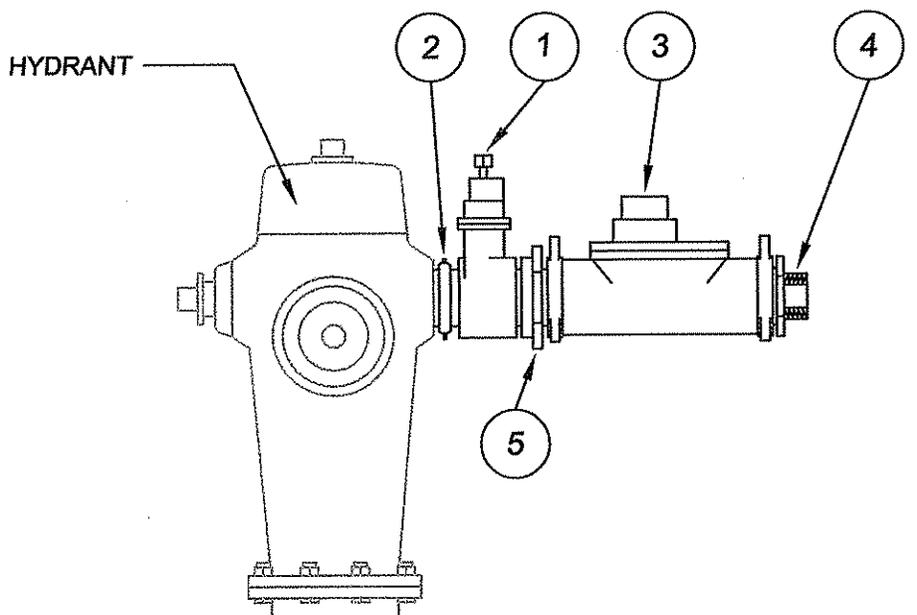
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LIST OF MATERIAL

DESCRIPTON (SIZE DEPENDS ON SIZE OF METER)

1. FIRE PLUG VALVE, 2-1/2" MALE HOSE THD OUTLET x 2-1/2" FEMALE HOSE THD INLET, J. JONES CO. NO. J356 - 1 REQUIRED.
2. SWIVEL ADAPTER, 2-1/2" FEMALE HOSE THD SWIVEL x 2-1/2" HOSE THD, BRASS, HALPRIN SUPPLY CO. NO. SA9 - 1 REQUIRED.
3. FIRE HYDRANT METER, 2-1/2", 3" FEMALE I.P. THD - BOTH ENDS, SPARLING NO. CF-246-2 - 1 REQUIRED.
4. HOSE NIPPLE, 3" MALE I.P. THD x 2-1/2" MALE HOSE THD, HEX TYPE, BRASS, HALPRIN SUPPLY CO. NO. B207 - OPTIONAL.
5. BUSHING, HEXAGON, BRASS, 2-1/2" FEMALE HOSE THD x 3" MALE I.P. THD, HALPRIN SUPPLY CO. NO. B117 W/3 STRAIGHTENING VANES.



NOTES:

1. OPENING AND CLOSING OF HYDRANT IS PERMITTED ONLY WITH A HYDRANT WRENCH.
2. SERVICE MAY BE MOVED FROM ONE LOCATION TO ANOTHER WITH THE APPROVAL OF THE WATER DIVISION.
3. BACKFLOW DEVICES MAY BE REQUIRED FOR CERTAIN USES.
4. SERVICE CONNECTIONS MAY BE TERMINATED AT ANY TIME AT THE DESCRETION OF THE WATER DIVISION.
5. CHARGES FOR LOSS OR DAMAGE TO ANY SERVICE MATERIAL WILL BE BASED UPON CURRENT PRICES.
6. WATER TRUCKS SHALL HAVE AN APPROVED AIR GAP.

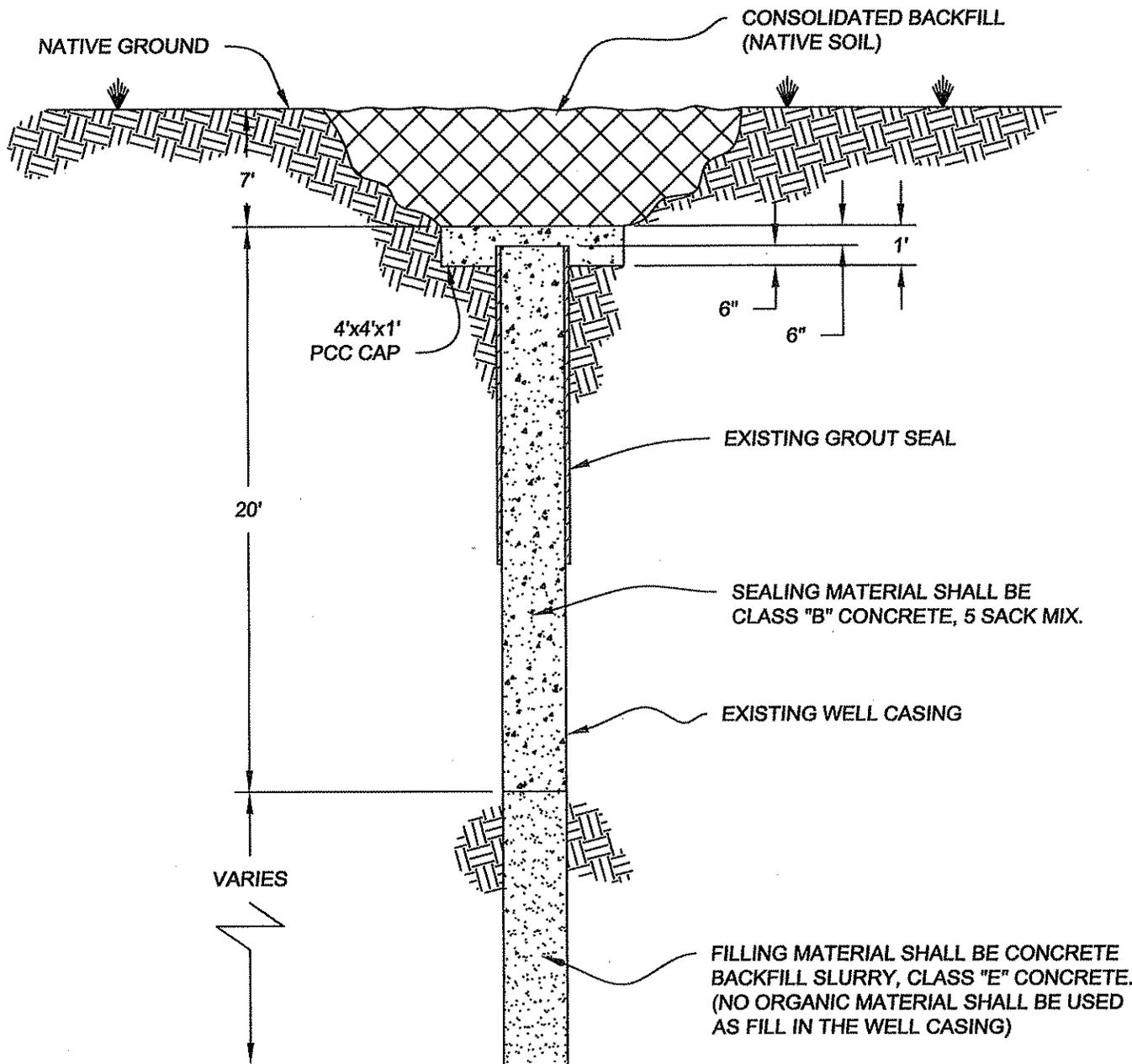


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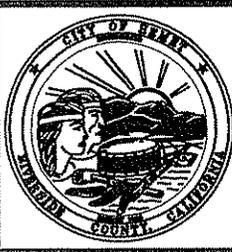
TEMPORARY WATER SERVICE

 MICHAEL A. GOW, PW DIRECTOR/CITY ENG. R.C.E. 54164	MAR 2009 DATE	1 OF 1 SHEETS
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STANDARD NO.
W-715



THIS STANDARD COMPLIES WITH THE STATE OF CALIFORNIA, DEPARTMENT OF WATER RESOURCES BULLETIN 74-81. THE CITY ENGINEER WILL CONTACT THE CHINO BASIN MUNICIPAL WATER DISTRICT PRIOR TO THE DESTRUCTION TO INITIATE THE "NOTICE OF INTENT". A "WATER DRILLERS' REPORT" MUST BE SUBMITTED TO THE DEPARTMENT OR WATER RESOURCES FOLLOWING THE DESTRUCTION OF ANY WELL.



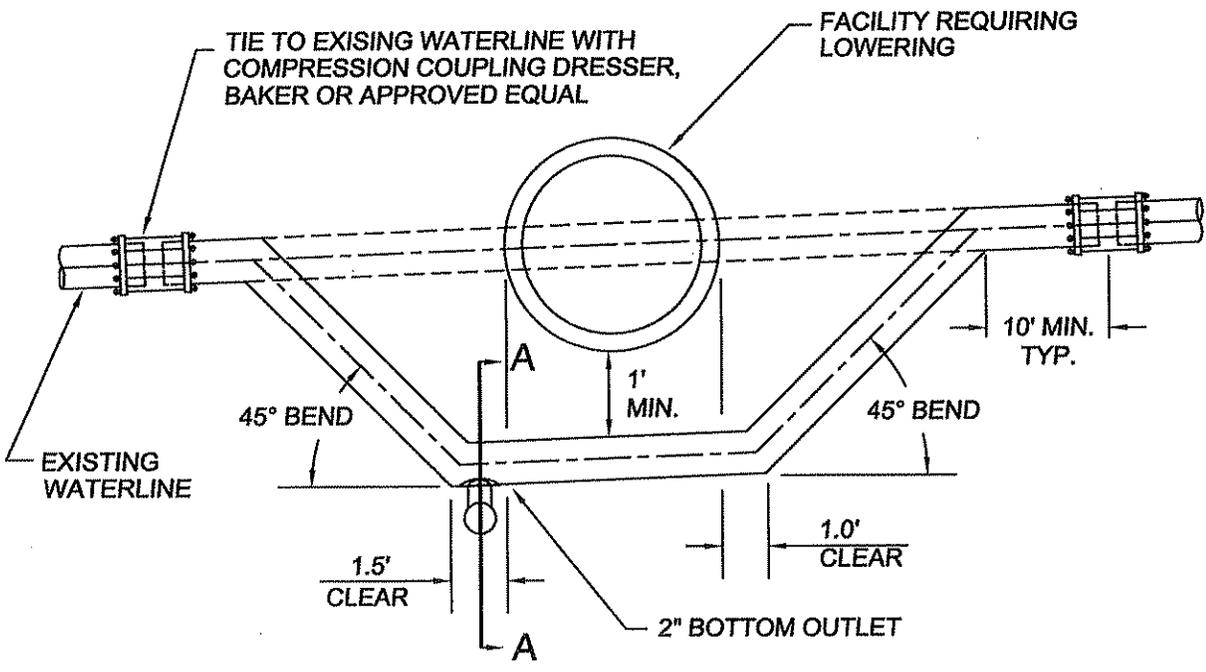
City of Hemet
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DESTRUCTION OF WELLS

<i>M. A. Gow</i>	MAR 2009
MICHAEL A. GOW, PW DIRECTOR/CITY ENG. R.C.E. 54164	DATE
REVISIONS	
NA:PW4100\COH_STDS\REVISIONS\WATER\W-716.dwg	
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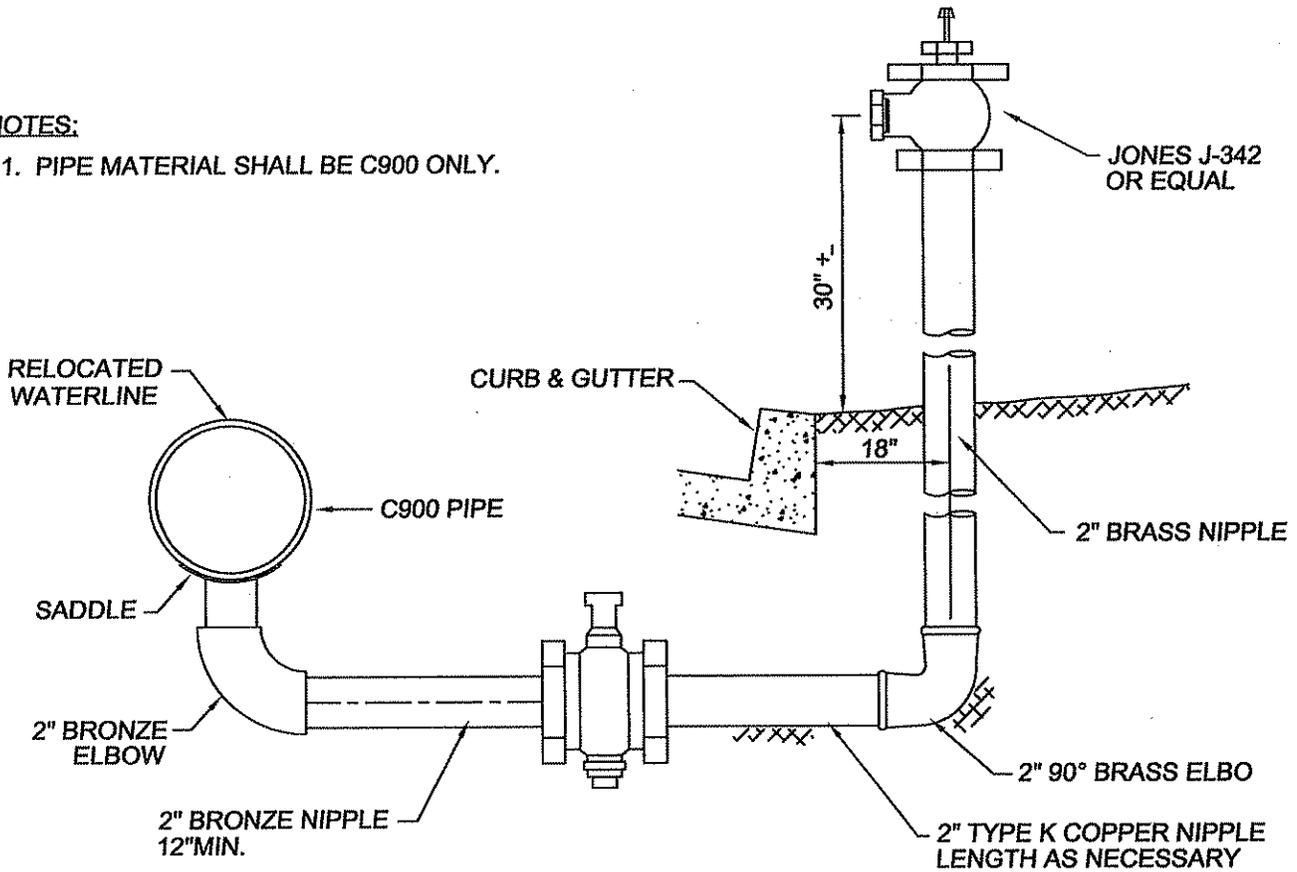
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STANDARD NO.
W-716



NOTES:

- 1. PIPE MATERIAL SHALL BE C900 ONLY.



SECT. A-A



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WATER MAIN DROP FLUSHER ASSEMBLY	
<i>Michael A. Gow</i>	MAR 2009
MICHAEL A. GOW, PW DIRECTOR/CITY ENG. R.C.E. 54164	DATE
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STANDARD NO.
W-717

AIR/WATER OUTLET
AIR INLET

TEMPORARY CASING FOR HOLE PROTECTION IF DESIRED BY THE CONTRACTOR. IT WILL BE REMOVED FOR THE REAMING PROCESS

1 1/4" AIR INJECTION STRING

SAMPLING STRING-MINIMUM 6" I.D. WITH PERFORATED PIPE SAMPLING TOOL

18" DIA. BOREHOLE

BENTONITE SEAL AS APPROVED BY ENGINEER.

FINE SAND

GRAVEL TO BE 5' ABOVE SEPARATION BETWEEN AQUIFER AND AQUICLUDE

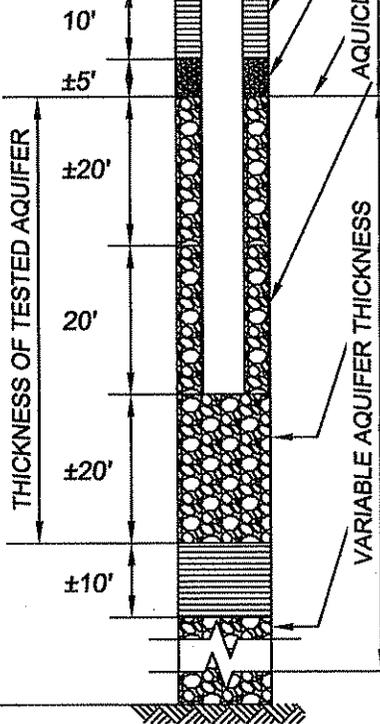
20' OF 0.060 MIL SLOT PERFORATIONS WITH OPEN AREA APPROX. 5.5 SQ. IN. PER FT

PEA GRAVEL

BENTONITE

VARIES

STATIC WATER LEVEL



AQUIFER ISOLATION TEST PROCEDURE

THE AQUIFER ISOLATION TEST PROCEDURE STARTS AFTER THE COMPLETION OF THE PILOT HOLE TO DEPTH AND CONSISTS OF THE FOLLOWING:

1. RUN THE ZONE SAMPLING STRING AND SUBMERSIBLE PUMP TO DEPTH, PLACING THE 20' PERFORATED SECTION IN THE LOWEST ZONE DESIRED TO BE SAMPLED.
2. PLACE 10' OF BENTONITE SEAL OR APPROVED EQUAL 20' BELOW THE PERFORATIONS.
3. PLACE PEA GRAVEL TO 20' ABOVE THE PERFORATIONS.
4. PLACE 5' OF FINE SAND.
5. PLACE 10' OF BENTONITE SEAL OR APPROVED EQUAL.
6. INJECT COMPRESSED AIR TO INITIATE PUMPING. PUMP CONTINUOUSLY UNTIL THE EFFLUENT IS CLEAR.
7. PUMP WITH SUBMERSIBLE PUMP CONTINUOUSLY UNTIL ELECTRICAL CONDUCTIVITY STABILIZES, AND TAKE WATER QUALITY SAMPLES.
8. PULL THE STRING TO THE NEXT HIGHEST DESIRED SAMPLING ZONE AND REPEAT ITEMS 2 THROUGH 7.

DETAIL

AQUIFER ISOLATION TEST



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AQUIFER ISOLATION TEST

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