CITY OF HALTOM CITY FIRE DEPARTMENT

5024 BROADWAY AVENUE
PO BOX 14246
HALTOM CITY, TX 76117

FD 001 - GENERAL NOTES

TO MEET THE REQUIREMENTS OF THE HALTOM CITY FIRE DEPARTMENT FOR ADEQUATE HORIZONTAL EMERGENCY ACCESS, ALL PARTS OF ALL BUILDINGS MUST BE WITHIN ONE HUNDRED AND FIFTY FEET (150'-0") OF A PUBLIC STREET OR A DESIGNATED FIRE LANE.

1. FIRE LANE WIDTH:
   THE MINIMUM FIRE LANE WIDTH SHALL BE AT LEAST TWENTY FOUR FEET (24'-0") CLEAR WITHOUT HORIZONTAL OBSTRUCTIONS.

2. FIRE LANE VERTICAL CLEARANCE:
   THE MINIMUM FIRE LANE VERTICAL CLEARANCE SHALL BE AT LEAST FOURTEEN FEET (14'-0").

3. INTERSECTIONS:
   THE FIRE LANE MUST INTERSECT WITH A PUBLICLY DEDICATED STREET RIGHT OF WAY. IF A FIRE LANE EXCEEDS ONE HUNDRED FIFTY FEET (150'-0") IN LENGTH, IT MUST INTERSECT WITH A PUBLIC STREET AT EACH END OF THE FIRE LANE OR TERMINATE IN A CONFIGURATION AS DETAILED IN THE HALTOM CITY STANDARD DETAILS.

4. PAVING SURFACE:
   THE FIRE LANE SHALL BE PAVED IN ACCORDANCE WITH THE UNIFORM FIRE CODE.

5. FIRE LANE MARKINGS:
   THE DESIGNATED FIRE LANE SHALL BE MARKED AS DETAILED HEREIN.

6. CONSTRUCTION:
   FIRE LANES SHALL BE CONSTRUCTED PRIOR TO THE CONSTRUCTION OF A BUILDING AND ALONG WITH THE INSTALLATION OF FIRE HYDRANTS. THIS LANE SHALL BE OPEN AND AVAILABLE FOR USE BY THE FIRE DEPARTMENT DURING BUILDING CONSTRUCTION.

7. VARIANCE:
   VARIATIONS TO THIS LIST AND THE REQUIREMENTS OF THE UNIFORM FIRE CODE SHALL BE REQUESTED IN WRITING TO THE FIRE CHIEF.

LAST REVISED: FEBRUARY 2004

CITY OF HALTOM CITY FIRE DEPARTMENT

5024 BROADWAY AVENUE
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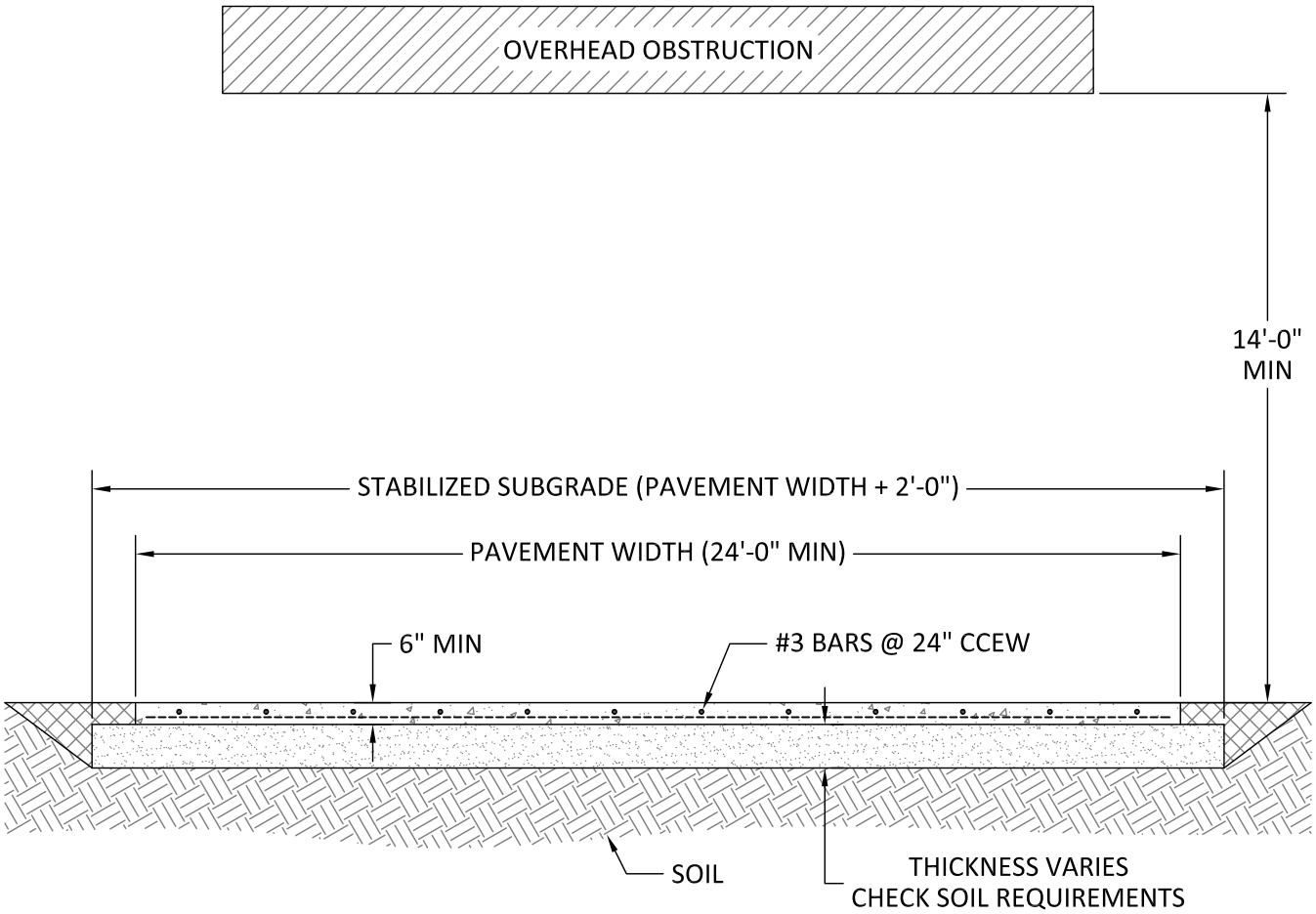
FD 002 - FIRE LANE PAVING SECTION

FIRE TRUCK GROSS WEIGHT = 60,000 LBS
EQUAL DISTANCE TO AXELS



NOTES:

1. CONCRETE PAVING SHALL BE AT MINIMUM FIVE (5) SACKS PER CUBIC YARD MIX WITH A MINIMUM FLEXURAL STRENGTH OF 3,000 PSI AT 28 DAYS AND A MAXIMUM SLUMP OF 3 INCHES.
2. REINFORCING STEEL SHALL BE IN ACCORDANCE WITH THAT REQUIRED UNDER THE GENERAL PAVING NOTES FOR THE CITY OF HALTOM CITY.
3. EXPANSION JOINTS SHALL BE PROVIDED AT THE ROW LINE OF THE FIRE LANE APPROACH AND AT A MAXIMUM OF 400 FOOT SPACINGS. TRANSVERSE SAW JOINTS SHALL BE PROVIDED AT 20 FOOT MAXIMUM SPACINGS.
4. WHERE A CURB IS USED, THE REQUIRED CLEARANCE SHALL BE MEASURED FROM THE CURB FACE TO ANY PERMANENT TRAFFIC OBSTACLE.

LAST REVISED: FEBRUARY 2004

CITY OF HALTOM CITY FIRE DEPARTMENT

5024 BROADWAY AVENUE
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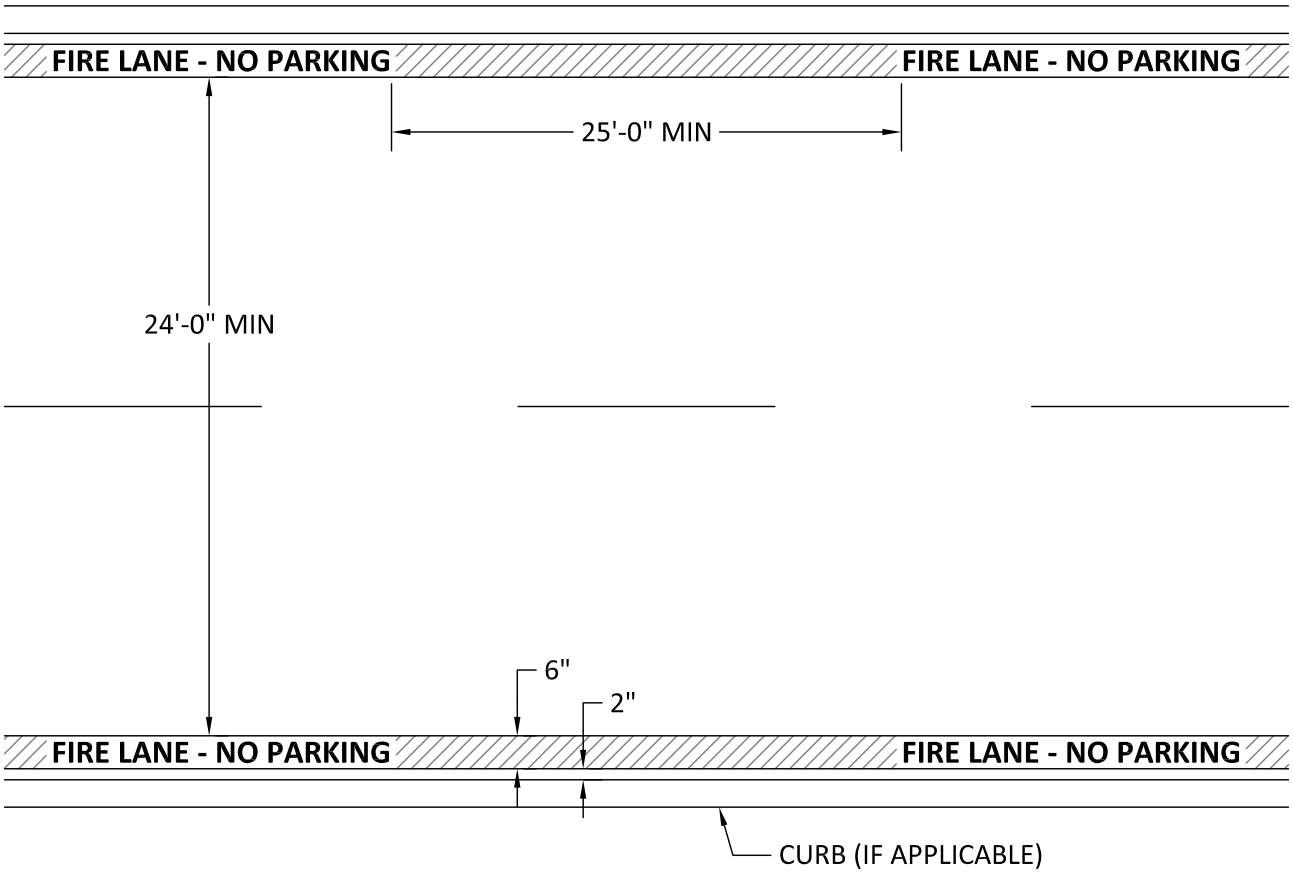
FD 003 - FIRE LANE STRIPING



NOTES:

A. PAINT:

A.1. STRIPE SHALL BE SIX INCHES (6") WIDE AND PAINTED WITH AN EXTERIOR ACRYLIC LATEX PAINT. COLOR SHALL BE "TRAFFIC RED" GLIDDEN NO. 63251 OR EQUAL.

A.2. LETTERS SHALL BE FOUR INCHES (4") HIGH WITH THE WIDTH OF STROKE AT LEAST ONE HALF INCH (1/2") THICK PAINTED WITH AN EXTERIOR ACRYLIC PAINT. COLOR SHALL BE "TRAFFIC WHITE" GLIDDEN NO. 563245 OR EQUAL.

B. APPLICATION:

B.1. STRIPE MAY BE BRUSHED OR SPRAYED, ONE COAT TO FINISH.

B.2. LETTERS SHALL BE STENCIL FORMED, BRUSH APPLIED, AND SPACED AS DETAILED ON THIS SHEET.

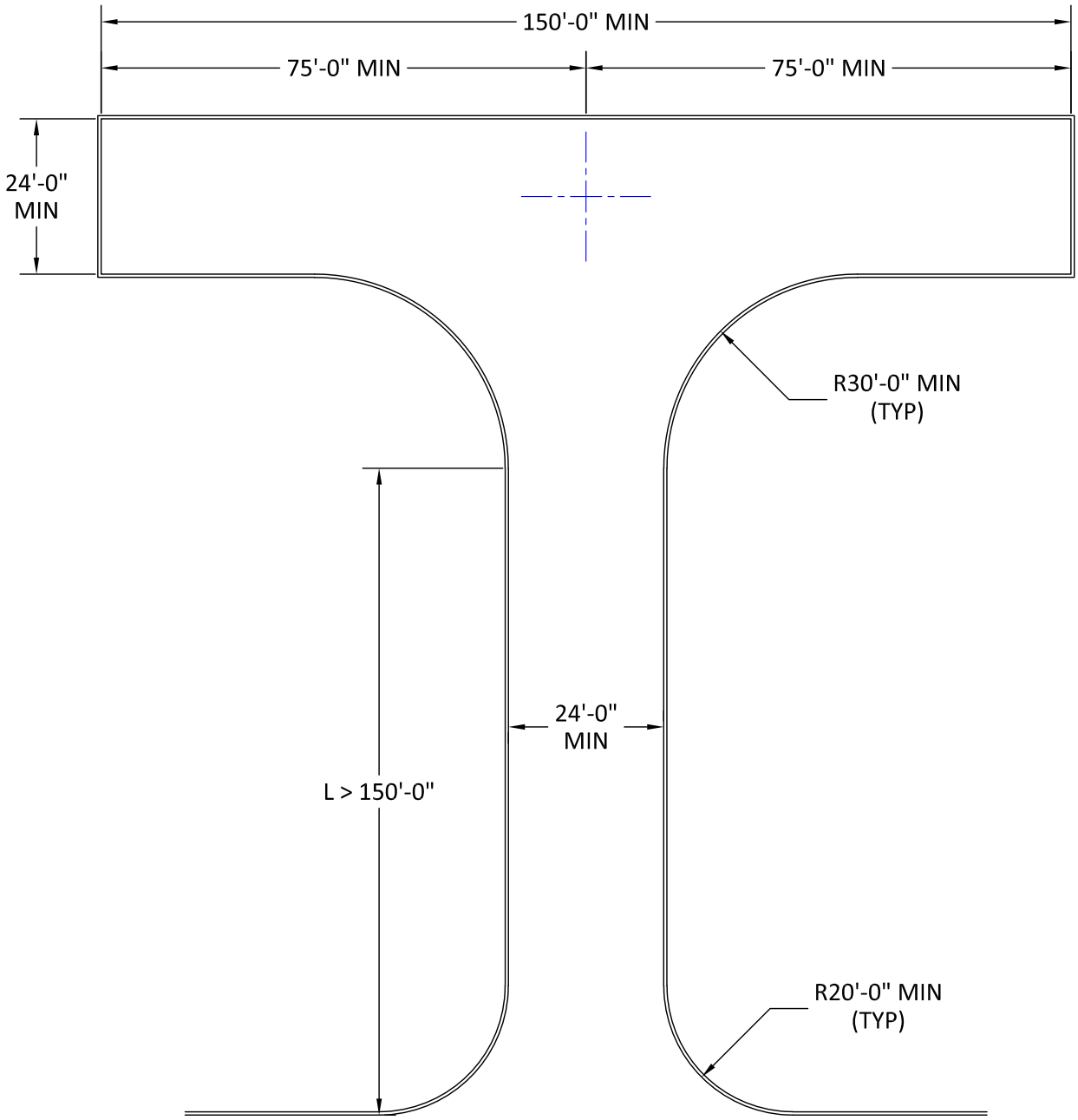
LAST REVISED: FEBRUARY 2004

CITY OF HALTOM CITY FIRE DEPARTMENT

5024 BROADWAY AVENUE
PO BOX 14246
HALTOM CITY, TX 76117

FD 004 - TYPE "A" TURN AROUND

NOTE: ALL DIMENSIONS ARE BETWEEN FIRE LANE PAVEMENT STRIPE MARKINGS.



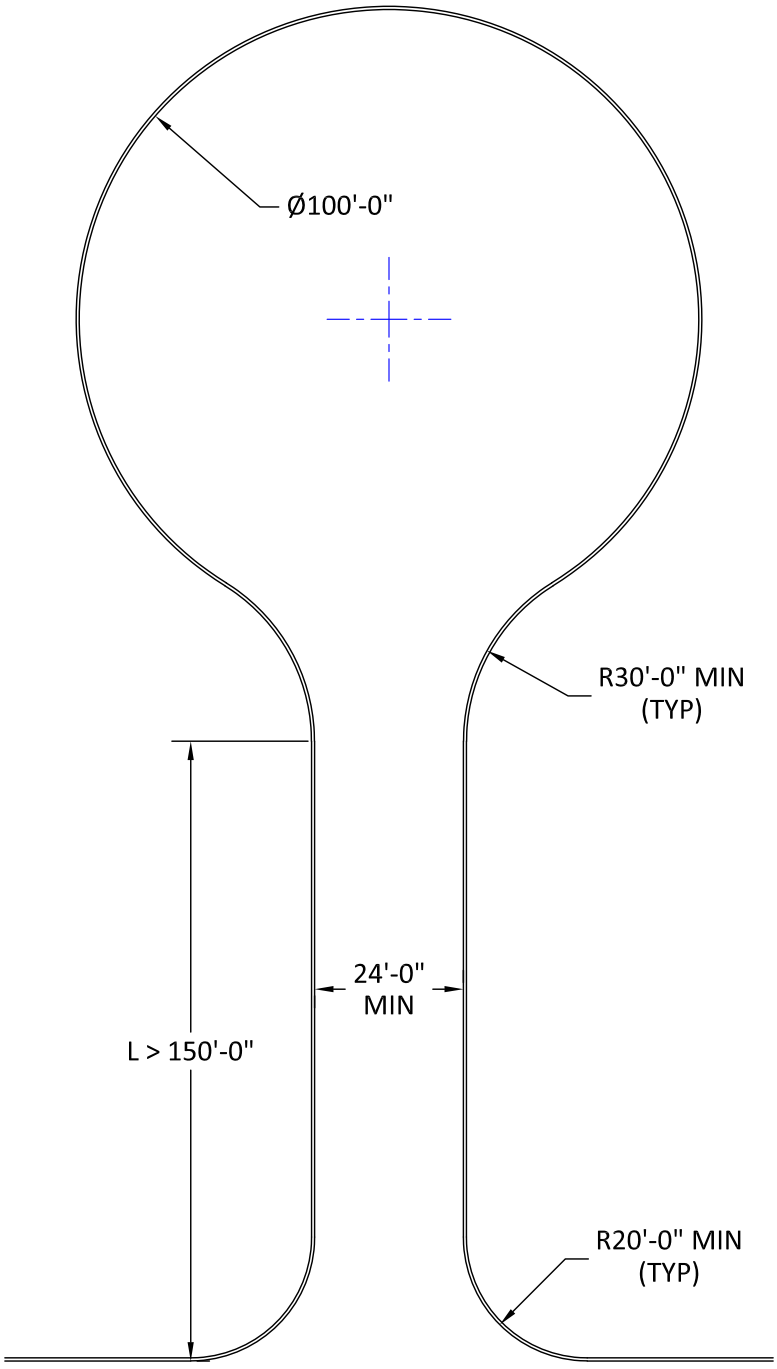
LAST REVISED: FEBRUARY 2004

CITY OF HALTOM CITY FIRE DEPARTMENT

5024 BROADWAY AVENUE
PO BOX 14246
HALTOM CITY, TX 76117

FD 005 - TYPE "B" TURN AROUND

NOTE: ALL DIMENSIONS ARE BETWEEN FIRE LANE PAVEMENT STRIPE MARKINGS.



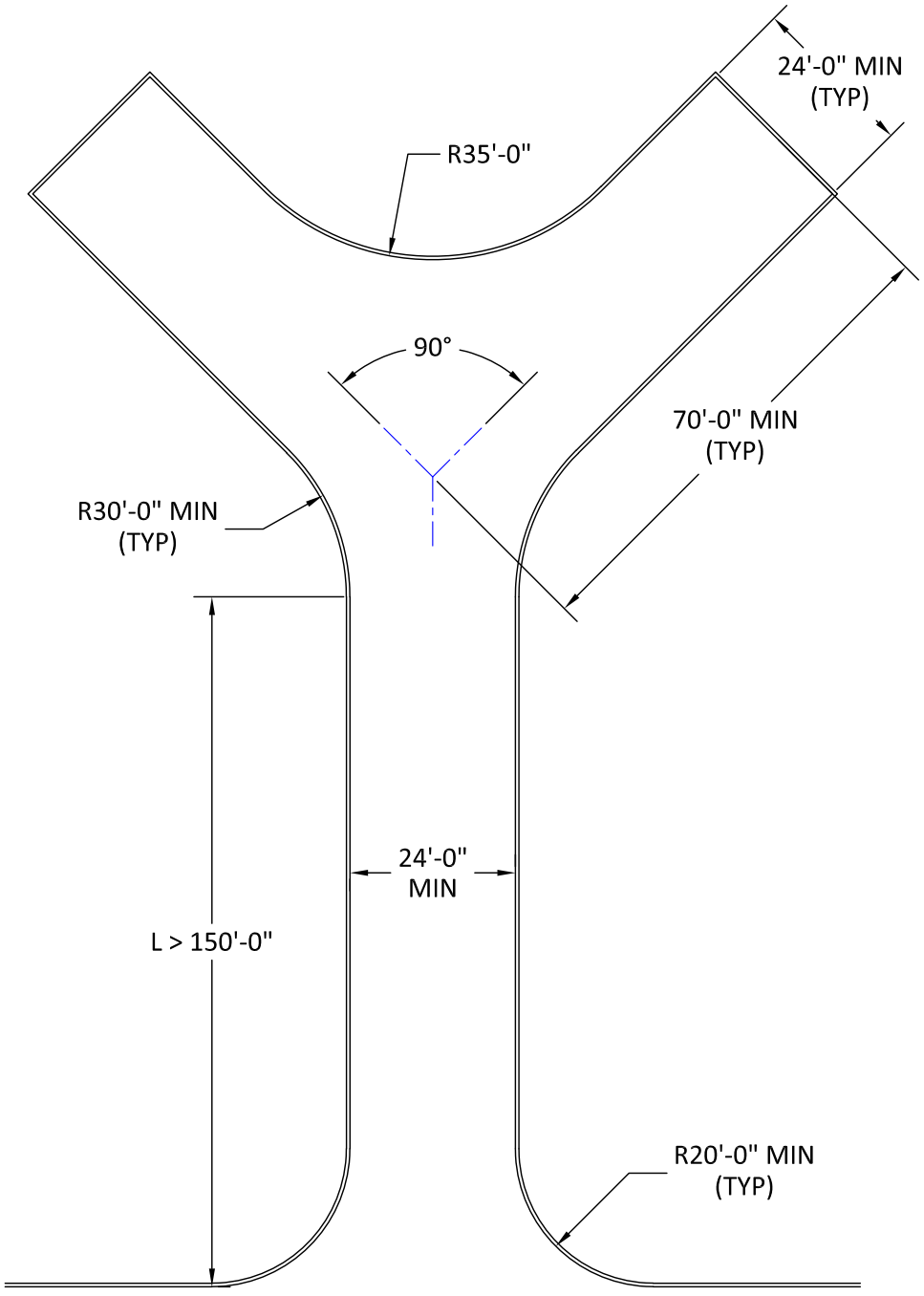
LAST REVISED: FEBRUARY 2004

CITY OF HALTOM CITY FIRE DEPARTMENT

5024 BROADWAY AVENUE
PO BOX 14246
HALTOM CITY, TX 76117

FD 006 - TURN AROUND ALTERNATIVE "A1"

NOTE: ALL DIMENSIONS ARE BETWEEN FIRE LANE PAVEMENT STRIPE MARKINGS.



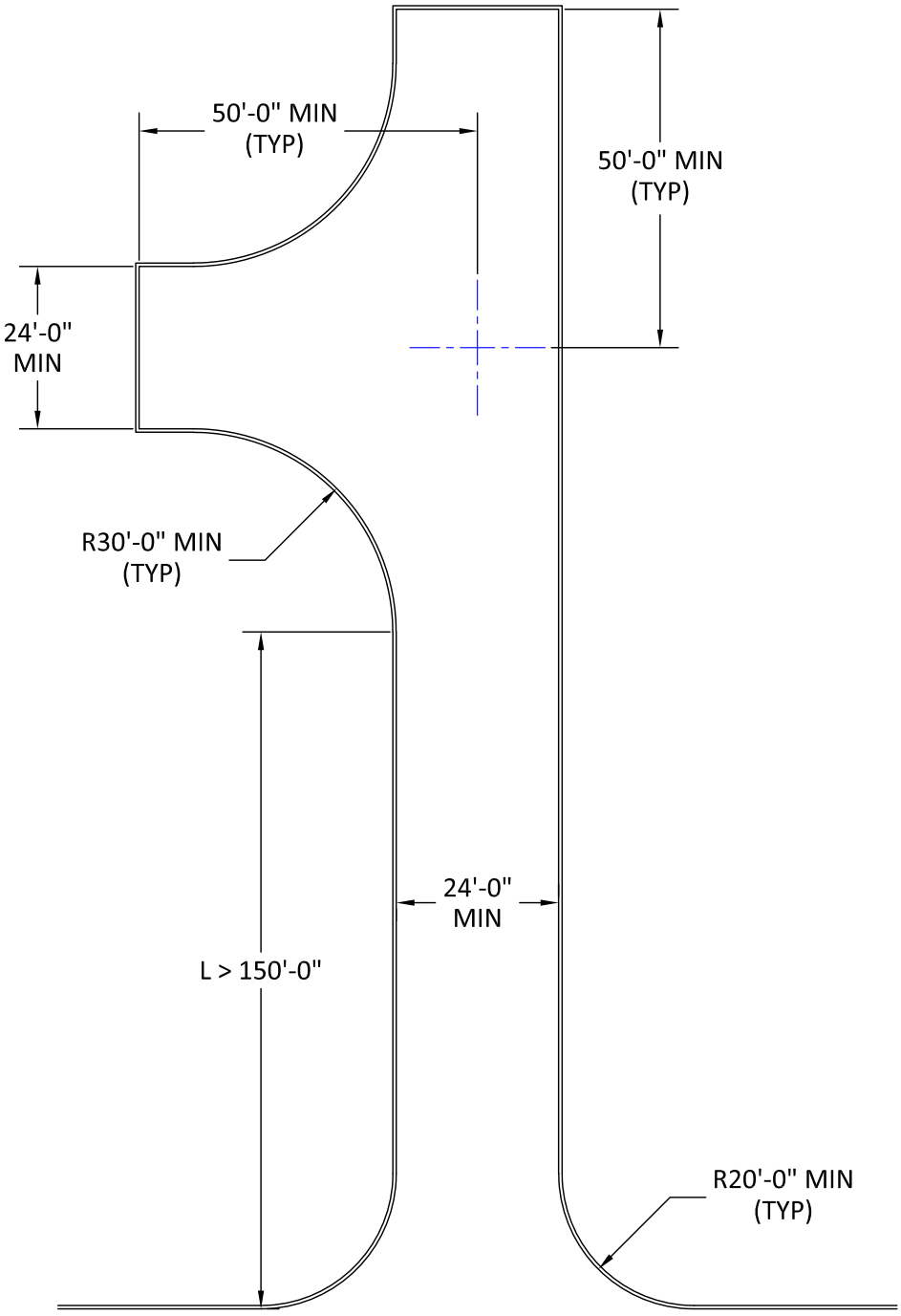
LAST REVISED: FEBRUARY 2004

CITY OF HALTOM CITY FIRE DEPARTMENT

5024 BROADWAY AVENUE
PO BOX 14246
HALTOM CITY, TX 76117

FD 007 - TURN AROUND ALTERNATIVE "A2"

NOTE: ALL DIMENSIONS ARE BETWEEN FIRE LANE PAVEMENT STRIPE MARKINGS.

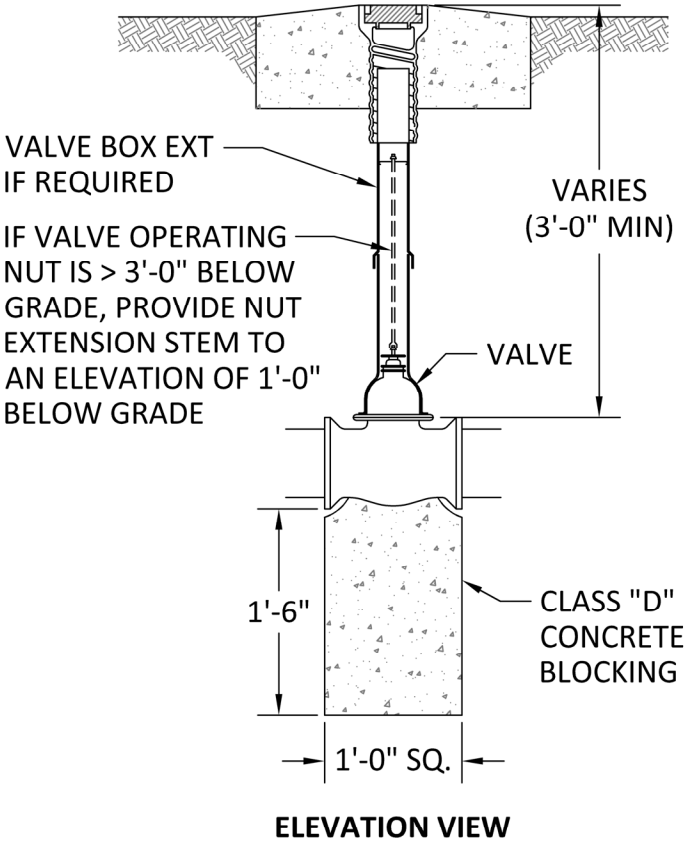


LAST REVISED: FEBRUARY 2004

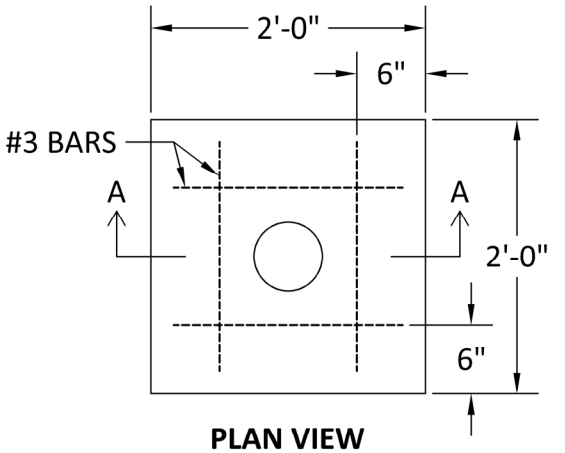
CITY OF HALTOM CITY FIRE DEPARTMENT

5024 BROADWAY AVENUE
PO BOX 14246
HALTOM CITY, TX 76117

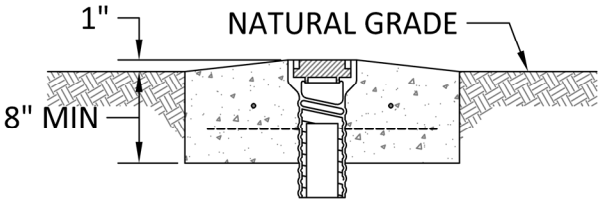
FD 008 - GATE VALVE AND BOX



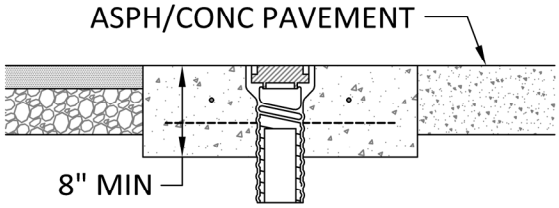
ELEVATION VIEW



PLAN VIEW



SECTION A-A
VALVES NOT SUBJECT TO TRAFFIC



SECTION A-A
VALVES WITHIN PAVED OR SURFACED AREAS

NOTES:

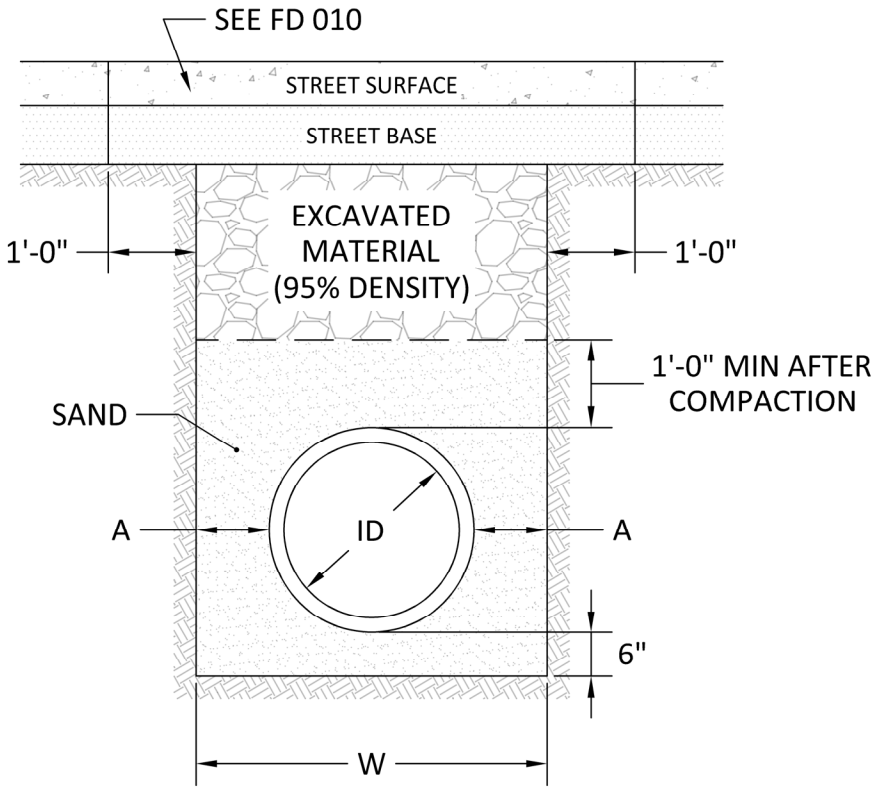
1. FOR VALVE BOX AND COVER: USE 14" VALVE AND SMALLER, TYLER 6855 SERIES WITH DROP LID MARKED "WATER" OR APPROVED EQUAL. DOMESTIC ONLY.
2. USE EXTENSION WHERE REQUIRED.

LAST REVISED: OCTOBER 2006

CITY OF HALTOM CITY FIRE DEPARTMENT

5024 BROADWAY AVENUE
PO BOX 14246
HALTOM CITY, TX 76117

FD 009 - PIPE EMBEDMENT AND BACKFILL



PIPE SIZE "ID"	DITCH WALL CLEARANCE "A"	DITCH WIDTH "W"		
		CAST IRON	PRETENSIONED	PRESTRESSED
2.5"	-	2'-0"	-	-
4"	9.6"	2'-0"	-	-
6"	8.6"	2'-0"	-	-
8"	7.5"	2'-0"	-	-
10"	6.5"	2'-0"	-	-
12"	6"	2'-2"	-	-
16"	6"	2'-6"	2'-7"	-
20"	6"	2'-10"	3'-0"	-
24"	6"	3'-2"	3'-4"	-
30"	9"	-	-	4'-6"
36"	9"	-	-	5'-0"
42"	9"	-	-	5'-7"
48"	9"	-	-	6'-2"

LAST REVISED: OCTOBER 2006

CITY OF HALTOM CITY FIRE DEPARTMENT

5024 BROADWAY AVENUE
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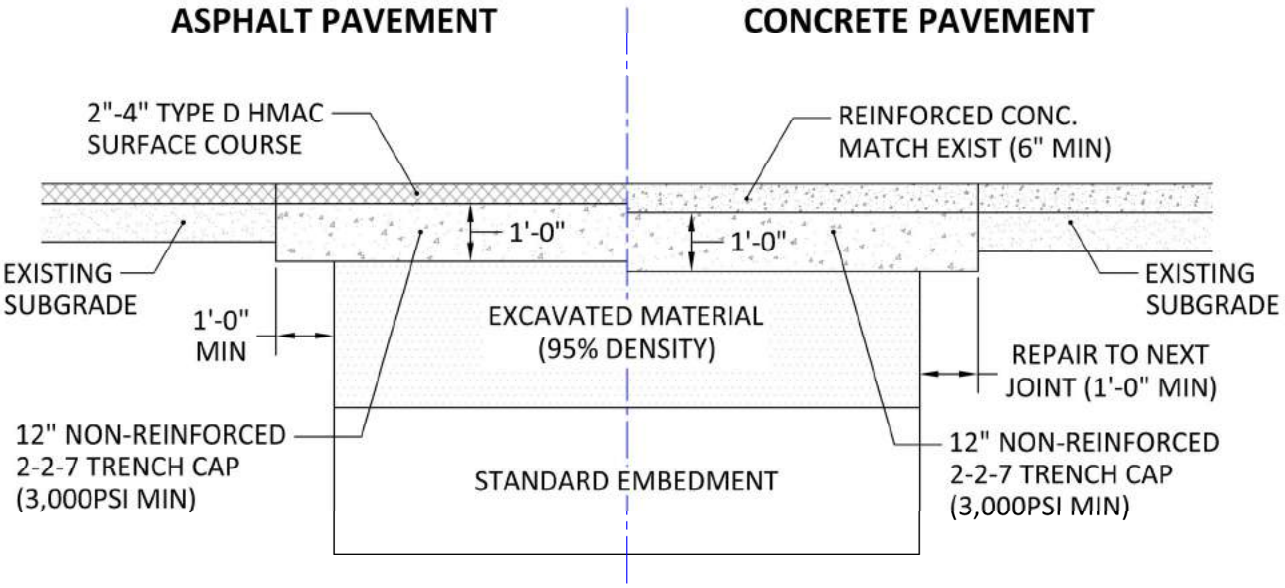
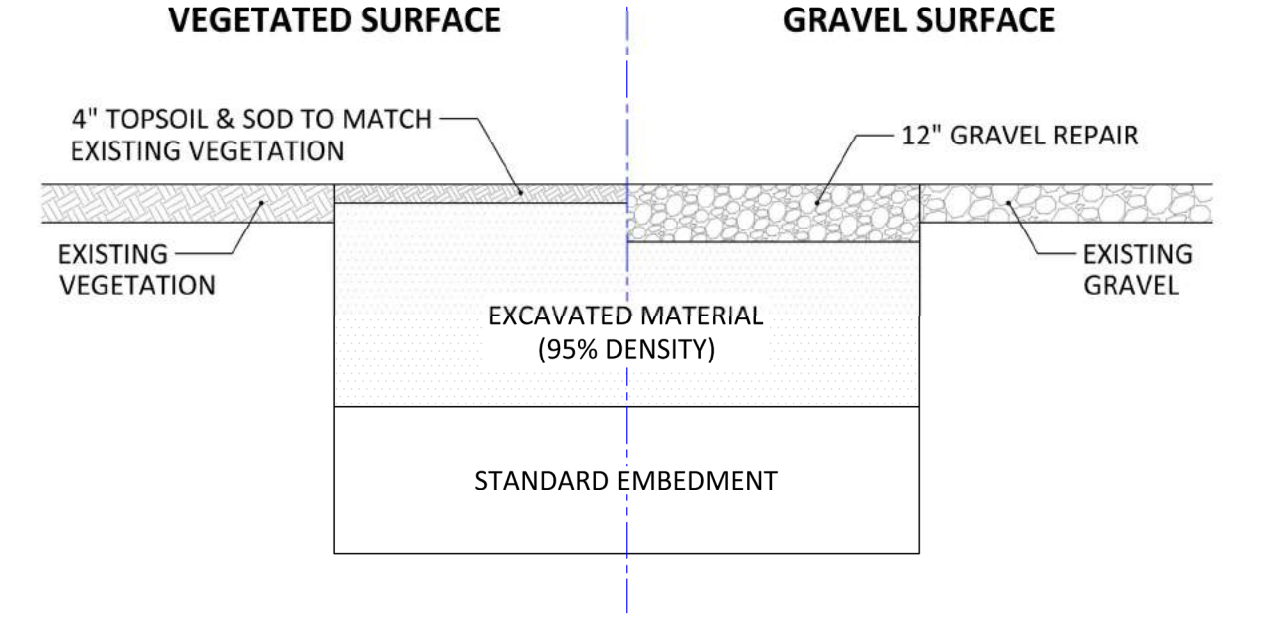
FD 010 - PAVEMENT AND SURFACE REPAIR





LAST REVISED: SEPTEMBER 2004

CITY OF HALTOM CITY FIRE DEPARTMENT

5024 BROADWAY AVENUE
PO BOX 14246
HALTOM CITY, TX 76117

FD 011 - FIRE LINE INSTALLATION & PARTS LIST

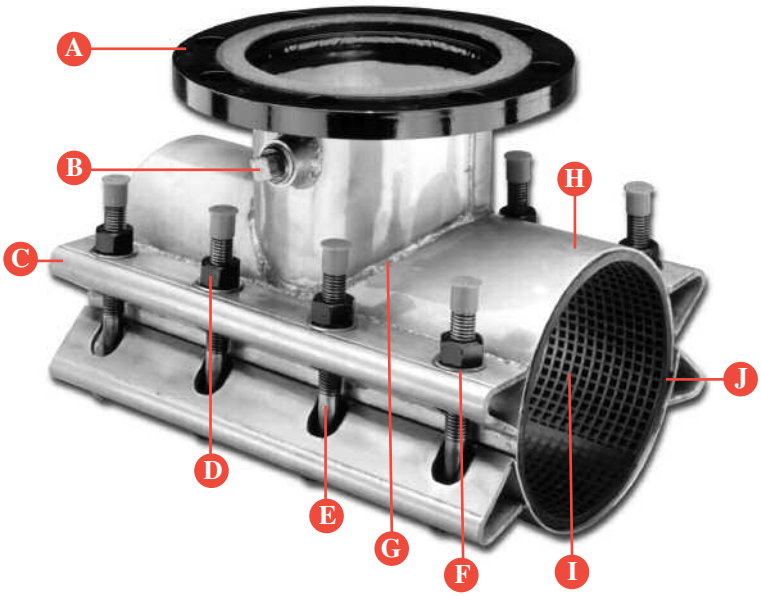
1. USE STAINLESS STEEL TAPPING SLEEVE. IF INSTALLING DUCTILE IRON, IT MUST BE EPOXY COATED.
2. USE M&H OR MULLER RESILIENT WEDGE GATE VALVE.
3. USE CLASS 200 DR-14 PVC WATER PIPE (SEE TABLE BELOW). IF INSTALLING DUCTILE IRON, IT MUST BE WRAPPED IN PLASTIC (MIN=8 MIL).
4. USE STAINLESS STEEL IN BUILDING RISER.
5. TAPPING SLEEVE AND VALVE WILL BE TESTED AT 40 POUNDS FOR 45 SECONDS.
6. LINES WILL BE TESTED AT 200 PSI FOR 2 HOURS.

CLASS 200 DR-14 PVC PIPE					
NOMINAL PIPE SIZE (IN)	AVERAGE OUTSIDE DIAMETER (IN)	APPROXIMATE INSIDE DIAMETER (IN)	MINIMUM WALL THICKNESS (IN)	APPROXIMATE WEIGHT (LBS/100FT)	APPROXIMATE CRATE WEIGHT (LBS)
4	4.80	4.06	0.34	320	3080
6	6.90	5.84	0.49	650	2350
8	9.05	7.66	0.65	1120	3350
10	11.10	9.40	0.79	1690	2710
12	13.20	11.18	0.94	2400	2880/3850

LAST REVISED: FEBRUARY 2004

MUELLER® Stainless Steel Tapping Sleeve 4"-24"

Corrosion resistance / High pressure sealing



A. 304 Stainless Steel, Carbon Steel or Ductile Iron Flanges
ANSI B16.1, Class 125 drilling with a machined centering recess for tapping valves in accordance with MSS-SP 60. Fully machined flange face for precise alignment of gate valve and drilling machine. Carbon steel and ductile iron flanges are factory-coated with a water base enamel for corrosion protection.

B. Test Plug
3/4" NPT brass plug for pressure testing is standard. Optional stainless steel plug available. Plug has a square head for easy removal and installation.

C. Side Bars
Heavy gauge 304L stainless steel construction for maximum bending resistance. All side bars are drop-in bolt design for ease of installation.

D. Nuts
Heavy hex 304 stainless steel.

E. Bolts
Bolts are 304 stainless steel, coated with an anti-galling compound. Rolled threads facilitate spin assembly of nuts.

F. Washers
304 stainless steel washers prevent galling and facilitate tightening.

G. Welding
Welds are continuous bead (MIG), utilizing state-of-the-art robotic welding equipment. Robotic welding provides a consistently superior weld versus the manual method.

H. Shell
The shell is plasma cut to exacting tolerances. 304L stainless steel is low carbon to minimize carbide precipitation corrosion. The entire sleeve is fully passivated (not just the weld sections) to maintain optimum corrosion resistance.

I. Gasket
Provides full 360˚ seal. Made of virgin NBR (R78) material, the "waffle" design provides an optimal watertight seal. An integral sealing ring with two concentric raised surfaces surrounds the outlet (at the base of the pipe), which enhances high pressure sealing capability.

J. Integral Gap Bridging
Unique design eliminates the need for separate gap bridges and makes installation easier. This design reduces deformation of the bridge at high torques and aids in the assembly of the sleeve.

High Pressure Sealing
250 psig 4"-12"
200 psig 14"-24"

NSF 61 Certified

New MJ Outlet Option

- Connects directly to standard MJ valve end.
- Uses standard MJ gasket provided with valve.
- Saves time, material and reduces inventory.

The following are standard sleeve ranges. Other ranges are available by contacting Mueller Customer Service at 800-423-1323.

Sleeve O.D. Range

Nominal Pipe Size	Outlet Flange	Sleeve O.D. Range (inches)
4"	4"	4.50-4.90
6"	4",6"	6.59-6.99
		6.89-7.30
		7.10-7.50
		7.40-7.80
8"	4",6"	7.90-8.30
	4",6",8"	8.62-9.06
		9.04-9.45
		9.20-9.60
		9.60-10.00
10"	4",6",8"	9.90-10.30
	4",6",8",10"	10.73-11.13
		11.05-11.45
		11.70-12.10
		12.00-12.40
12"	4",6",8",10",12"	12.50-12.90
		13.16-13.56
		13.60-14.09
		14.10-14.58
14"	4",6",8",10",12"	15.25-15.65
		15.60-16.00
		16.38-16.73
		16.48-16.88
16"	4",6",8",10",12"	17.40-17.80
		17.54-17.94
		17.85-18.25
		18.15-18.55
		18.60-19.00
18"	4",6",8",10",12"	19.30-19.70
		19.70-20.10
20"	4",6",8",10",12"	21.40-21.80
		21.90-22.30
		22.30-22.70
24"	4",6",8",10",12"	23.30-23.70
		23.80-24.10
		25.60-26.00

Dimensions

Size Main	Size Outlet	Outlet Flange Dimensions (inches)† A	B	Sleeve Dimensions (inches) C	D	E	Bolts Per Side F
4"	4"	5.0315	.25	7.00	15	4.50	4
6"	4"	5.0315	.25	7.50	15	4.50	4
6"	6"	7.0315	.31	8.00	15	6.50	4
8"	4"	5.0315	.25	8.50	15	4.50	4
8"	6"	7.0315	.31	9.00	15	6.50	4
8"	8"	9.0315	.31	9.50	18	8.50	6
10"	4"	5.0315	.25	10.00	15	4.50	4
10"	6"	7.0315	.31	10.50	15	6.50	4
10"	8"	9.0315	.31	11.00	18	8.50	6
10"	10"	11.0315	.31	11.50	24	10.50	8
12"	4"	5.0315	.25	12.00	15	4.50	4
12"	6"	7.0315	.31	12.00	15	6.50	4
12"	8"	9.0315	.31	12.00	18	8.50	6
12"	10"	11.0315	.31	12.00	24	10.50	8
12"	12"	13.0315	.31	12.00	30	12.50	8
14"	4"	5.0315	.25	13.63	15	4.50	4
14"	6"	7.0315	.31	13.63	15	6.50	4
14"	8"	9.0315	.31	13.63	18	8.50	6
14"	10"	11.0315	.31	13.63	24	10.50	8
14"	12"	13.0315	.31	13.63	30	12.50	8
16"	4"	5.0315	.25	14.59	15	4.50	4
16"	6"	7.0315	.31	14.59	15	6.50	4
16"	8"	9.0315	.31	14.59	18	8.50	6
16"	10"	11.0315	.31	14.59	24	10.50	8
16"	12"	13.0315	.31	14.59	30	12.50	8
18"	4"	5.0315	.25	16.00	15	4.50	4
18"	6"	7.0315	.31	16.00	15	6.50	4
18"	8"	9.0315	.31	16.00	18	8.50	6
18"	10"	11.0315	.31	16.00	24	10.50	8
18"	12"	13.0315	.31	16.00	30	12.50	8
20"	4"	5.0315	.25	16.88	15	4.50	4
20"	6"	7.0315	.31	16.88	15	6.50	4
20"	8"	9.0315	.31	16.88	18	8.50	6
20"	10"	11.0315	.31	16.88	24	10.50	8
20"	12"	13.0315	.31	16.88	30	12.50	8
24"	4"	5.0315	.25	19.00	24	4.50	8
24"	6"	7.0315	.31	19.00	24	6.50	8
24"	8"	9.0315	.31	19.00	24	8.50	8
24"	10"	11.0315	.31	19.00	24	10.50	8
24"	12"	13.0315	.31	19.00	30	12.50	10

†With MJ option, this flange is replaced by an integral SS outlet pipe extension and MJ gland welded permanently in place allowing the sleeve to bolt directly to the outlet of any standard MJ valve. Dimensions for MJ option are compatible with standard MJ connections, and A and B dimensions in chart do not apply.

How to determine a Mueller® Tapping Sleeve Part Number

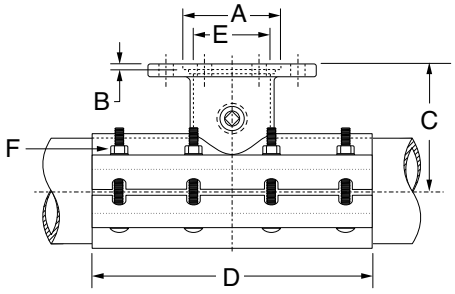
Select the appropriate numbers from the chart.
Example:

Pipe Size	Outlet Size	Model No.	Flange Material	Maximum O.D. Range
06	06	H304*	SS**	0750

Resulting Part No. 0606H304SS0750

*Model H304 is constant for all Mueller® Stainless Steel Tapping Sleeves listed here.

**SS=stainless steel flange, CS=carbon steel flange, DI=ductile iron flange
MJ=stainless steel MJ gland and pipe extension welded in place



Mueller Co.

Main Office — Decatur, IL
Water Division: 800-423-1323
www.muellercompany.com
Canada — Mueller Canada Inc., Barrie, Ontario 705-719-9965

All products must be installed and maintained in accordance with applicable instructions and/or standards.

Form 11963-Rev. 5/07-2.5M-2

Printed in U.S.A.

The original, and the definitive standard.

RESILIENT WEDGE GATE VALVES

2" THROUGH 12"
STYLE 4067

AWWA C509 250 PSI • UL/FM Approved 200 PSI • NSF 61 Certified •
Full Water Way • Fusion Bond Epoxy Coated • 10 Year Limited Warranty

M&H VALVE COMPANY

M&H Valve is a division of McWane, Inc.

www.mh-valve.com

For Generations

SPECIFICATIONS / AVAILABLE CONFIGURATIONS & STYLE NUMBERS (2”- 12”)

M&H AWWA C509 RESILIENT WEDGE GATE VALVES (1993)

M&H Valve AWWA C509 Resilient Wedge Gate Valves
Meet or Exceed the Requirements of AWWA Standard C509

Size Range	Water Working Pressure psi	Bubble Tight Seat Test psi	Hydrostatic Shell Test psi
AWWA 2” – 12”	250 Water Works	250 & 400	500
ULFM 4” – 12”	200 Fire Protection	250 & 400	500

Available End Connections	**Size Range**	**Style No. With 2” Nut**	**Style No. With Hand wheel**	**Style No. With Post Plate**
Mechanical Joint (NRS) (no 2 ½”)	2”-12”	4067-01	4067-01-HW	4067-01P (3”-12”)
Flanged Ends (NRS)	2”-12”	4067-02	4067-02-HW	4067-02P (3”-12”)
Flanged End X Mechanical Joint (NRS)	3”-12”	4067-13	4067-13-HW	4067-13P (3”-12”)
Push-on (For PVC / SDR) (NRS)	2”-12”	4067-03	4067-03-HW	4067-03P (3”-12”)
Threaded (NRS)	2”-3”	4067-07	4067-07-HW	4067-07P (3” only)
Threaded (NRS)(With T-Head Nut)	2”-3”	4067-07THN (With T-Head Nut)		
***Threaded (OS&Y)	2”-3”	N/A	4068-07	
Tyton X Tyton (NRS) (For D.I. / C900)	4”-12”	4067-22	4067-22-HW	4067-22P (4”-12”)
Tyton X Flange (NRS) (For D.I. / C900)	4”-12”	4067-23	4067-23-HW	4067-23P (4”-12”)
***Flanged Ends (OS&Y)	2”-12”	N/A	4068 & 4068A*	N/A
**Tapping Valve (NRS)	4”-12”	4751-01	4751-01HW	4751-01P (4”-12”)
M.J. Cutting-in valve (NRS)	4”-12”	4576-01	4576-01-HW	4576-01P (4”-12”)
****Flanged End (Open Mitre Box)	3”-12”	4211-O	4211-O-HW	N/A
****Flanged End (Enclosed Mitre Box)	4”-12”	4211-C	4211-C-HW	N/A

Notes: *4068A is Tapped & Plugged in “A” Position (2” – 4” = ½” tap)(6” – 12” = ¾” tap)
**Each size accommodates a full size diameter tapping cutter.
***2” OS&Y Flanged and Threaded versions are UL Listed.
****Can provide with all available end connections.
2” and 2 1/2” are not included in AWWA C509.

NOTE: It is recommended that valves be installed with stems vertical when used in raw sewage or sludge applications or in water with excessive sediment.

Certified to NSF/ANSI 61-G

Sizes 2" - 12"

RECOMMEND SPECIFICATIONS (NRS STYLE 4067)(OS&Y STYLE 4068)(2”-12”)

M&H AWWA C509 RESILIENT WEDGE GATE VALVES (1993)

RECOMMENDED SPECIFICATIONS (2”-12”)

1. Valves shall conform to the latest revision of AWWA Standard C509 covering resilient seated gate valves for water supply service.

2. The valves shall have an iron body, bonnet, and O-ring plate. The wedge shall be totally encapsulated with rubber.

3. The sealing rubber shall be permanently bonded to the wedge per ASTM D-429.

4. Valves shall be supplied with O-ring seals at all pressure retaining joints. No flat gaskets shall be allowed.

5. The valves shall be either non-rising stem or rising stem, opening by turning left or right, and provided with 2” square operating nut or a handwheel with the word “Open” and an arrow to indicate the direction to open.

6. Stems shall be cast copper alloy with integral collars in full compliance with AWWA. All stems shall operate with copper alloy stem nuts independent of wedge and of stem (in NRS valves). OS&Y (rising stems) shall be bronze

7. All stems shall have two O-rings located above the thrust collar and one O-ring below. Stem O-rings shall be replaceable with valve fully opened and subjected to full pressure.

8. The stems on 2”-12” shall also have a low torque thrust bearing located above and below the stem collar to reduce friction during operation.

9. Waterway shall be smooth, unobstructed and free of all pockets, cavities and depressions in the seat area. Valves 2” and larger shall accept a full size tapping cutter.

10. The body, bonnet and O-ring plate shall be fusion-bonded epoxy coated, both interior and exterior on body and bonnet. Epoxy shall be applied in accordance with AWWA C550 and be NSF 61 Certified.

11. Each valve shall have maker’s name, pressure rating, and year in which it was manufactured cast in the body. Country of origin to be clearly cast into body & cover castings.

12. Prior to shipment from the factory, each valve shall be tested by hydrostatic pressure equal to the requirements of AWWA C509 (and UL/FM where applicable).

13. Valves shall have all component parts cast and assembled in the USA and shall be manufactured by the M&H Valve Company.

NOTE: It is recommended that valves be installed with stems vertical when used in raw sewage or sludge applications or in water with excessive sediment.

MUELLER
(/)

2-12 INCH A-2362 RWGV FLXFL

Catalog number: A-2362-6

SPECIFICATIONS:

- Flanged ends
- Sizes – 2", 2-1/2", 3", 4", 6", 8", 10", 12"
- Meets or exceeds all applicable requirements of ANSI/AWWA C509 and C515, UL 262 Listed, FM 1120/1130 Approved, and certified to ANSI/NSF 61 and 372†
- Flanged end drilling complies with ASME/ANSI B16.1 class 125 and B16.42 class 150
- Iron body with nominal 10 mils Pro-Guard® Fusion Bonded Epoxy Coated interior and exterior surfaces
- Epoxy coating meets or exceeds all applicable requirements of ANSI/AWWA C550 Standard.
- Iron wedge, symmetrical & fully encapsulated with molded rubber; no exposed iron
- Non-rising stem (NRS)
- Triple O-ring seal stuffing box (2 above the thrust collar and 1 below)
- 2" square wrench nut – open left or open right
- 350 psig (1725 kPa/17 barg) maximum working pressure, 700 psig (3450 kPa/35 barg) static test pressure
- UL Listed, FM Approved: 350 psig (1725 kPa/17 barg)
- Designed for potable water applications

† Approved for backflow prevention devices by USC (for 4" - 10" sizes)

OPTIONS:

- Position indicators
- Stainless steel stem: Type 304, Type 316
- 2" square wrench nut
- P/N 10/16 Drilling
- EPDM Disc and O-rings
- Low zinc, silicon bronze ASTM B98-C66100/H02 stem

RESOURCES:

(https://www.muellercompany.com/sites/muellercompany.com/files/uploads/media/12661rwgvop

- Operating Manual - 2300 Series Resilient Wedge Gate Valves (Form 12661) 2.pdf)
- Installation Preparation Checklist (Form 11624) (http://www.muellercompany.com/sites/muellercompany.com/files/uploads/media/11624.pdf)
- Drawing - 4-12 inch A-2362 - All End Types (Form 7420) (http://www.muellercompany.com/sites/muellercompany.com/files/uploads/media/7420_rev_0_web.pdf)
- Drawing - 2-3 inch A-2362 - All End Types (Form 7399) (http://www.muellercompany.com/sites/muellercompany.com/files/uploads/media/7399_rev_a_web.pdf)

(https://www.muellercompany.com/sites/muellercompany.com/files/uploads/media/a2362_rwgv_coc_

- Certificate of Compliance - 2"-12" A-2362 Resilient Wedge Gate Valves 12.pdf)

(http://www.muellercompany.com/sites/muellercompany.com/files/uploads/media/13814-muellerco-sugg-specs-2362-250psi-full-wall-

- Suggested Specifications - 2"-12" A-2362 Reslient Wedge Gate Valves rwgv_0.pdf)

(https://www.muellercompany.com/sites/muellercompany.com/files/uploads/media/13209-muellerco-prod-specs-2362-resilient-wedge-gate-valves-

- Product Specifications - 2"-12" A-2362 Reslient Wedge Gate Valves 2.pdf)

FULL LINE CATALOG (HTTPS://IPAPER.IPAPERCMS.DK/MUELLERCO/MUELLER-WATER-DISTRIBUTION-PRODUCTS-CATALOG/10-GATE-VALVES/10-GATE-VALVES/?PAGE=38)

NEWSLETTER SIGN UP

Job Name _____ Contractor _____

Job Location _____ Approval _____

Engineer _____ Contractor's P.O. No. _____

Approval _____ Representative _____

LEAD FREE*

Series IBR

In-Building Risers Customizable

Sizes: 4" – 10"

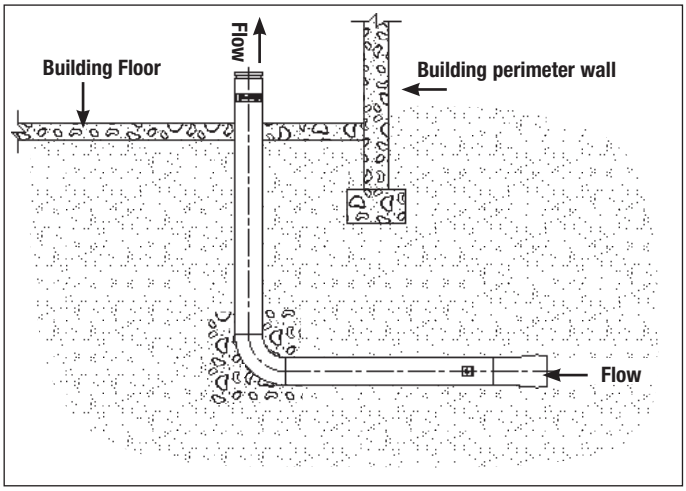
Series IBR In-Building Risers are used to connect the main fire supply to the building overhead fire system. The fitting passes under the foundation without joints and extends up through the floor. Provided with installation tabs, the unit has a CIPS (Cast Iron Pipe Size) coupler for easy connection to the underground supply (AWWA C900 PVC and Ductile Iron Pipe) and industry standard grooved-end connection (AWWA C606) on the building side for easy connection to the overhead fire sprinkler system. The IBR features Lead Free* construction to comply with Lead Free* installation requirements.

Ames In-Building Risers are precision engineered and manufactured to provide exceptional reliability and reduce installation time & labor costs associated with field assembly. In accordance with NFPA 24, the UL/FM approved In-Building Risers replace numerous fittings, elbows & spools and reduces the possibility of leaks or failure in comparison to traditional installation methods and materials. Factory tested integrity ensures the highest quality installation. The use of stainless steel significantly increases the reliability and life of the riser.

Features

- Cost savings
- Corrosion resistant stainless steel construction, type 304
- Ease of installation and light weight allows one person to position and handle the riser
- Minimal site preparation; joint restraint one-piece construction reduces time and labor; no missing parts, no leaks; easily identifiable for approvals
- Includes Test Cap and Coupler
- UL/FM approved
- Sizes: available in 4" – 10" with various lengths to meet local requirements
- Designed to meet NFPA 24
- AWWA C900 Inlet/DIP
- AWWA C606 Outlet

6'x6' standard length
(custom lengths from 3' – 20' available)



***The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.**

AMES
FIRE & WATERWORKS
A WATTS Brand

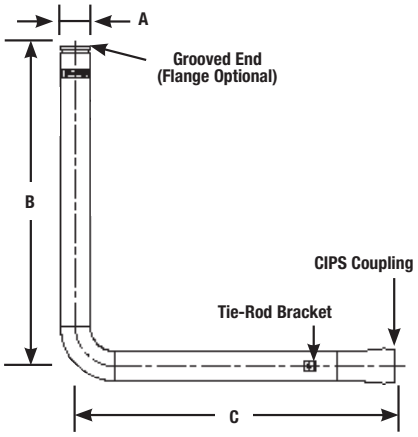
Specifications

In-Building Riser shall be installed as indicated on the plans. Riser shall be composed of a single extended 90 degree fitting of fabricated 304 stainless steel tubing, maximum working pressure 200psi (14 bar). The fitting shall have a grooved-end connection on the outlet (building) side and a CIPS coupler on the inlet (underground) side. The grooved end shall include a coupler and cap to facilitate testing of the underground piping. The In-Building Riser shall be an Ames Fire & Waterworks Series IBR.

Approvals

Fittings FM class 1920
UL HKQA (4"-10")

Dimensions – Weights



SIZE							WEIGHT	
	A (OD)		B		C			
in.	*in.*	*mm*	*ft.*	*cm*	*ft.*	*cm*	*lbs.*	*kg*
4	4½	114	6	183	6	183	71	32
4	4½	114	8'-6"	183	6	183	85	39
4	4½	114	9	274	6	183	88	40
4	4½	114	5	152	7	213	71	32
6	6⅝	168	6	183	6	183	98	44
6	6⅝	168	8'-6"	259	6	183	122	56
6	6⅝	168	9	274	6	183	127	58
6	6⅝	168	5	152	7	213	98	44
8	8⅝	219	6	183	6	183	129	59
8	8⅝	219	8'-6"	259	6	183	163	74
8	8⅝	219	9	274	6	183	170	77
8	8⅝	219	5	152	7	213	129	59
10	10¾	273	6	183	6	183	202	92
10	10¾	273	9	274	6	183	258	117
10	10¾	273	5	152	7	213	202	92

**Each B (vertical) and C (horizontal) leg is customizable from 3' to 20' with UL/FM approvals. Consult with your factory representative for details.

Standards

NFPA — Designed to allow the contractor to conform to NFPA 24

Where a riser is close to building foundations, underground fittings of proper design and type shall be used to avoid pipe joints being located under the foundations.

End Connections

Horizontal End: Mates with Ductile Iron Pipe and AWWA C900 Pipe (PVC Pipe with Ductile Iron Pipe Equivalent OD's)

Utilizes Gasket conforming to UL 157 with "Lock in" gasket configuration

SIZE	MATING PIPE OD	
in.	*in.*	*mm*
4	4.8	122
6	6.9	175
8	9.1	230
10	11.1	282

Vertical End:

Meets AWWA C-606 dimensions for roll grooved pipe
Meets AWWA C-207 class D for flanges

Ratings

Meets AWWA C-900 pressure class 200, DR 14 Pipe

Testing

Welds are 100% leak tested at the factory

NOTICE

Inquire with governing authorities for local installation requirements

NOTICE

The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.

AMES
FIRE & WATERWORKS

A **WATTS** *Brand*

USA: Backflow Tel: (978) 689-6066 • Fax: (978) 975-8350 • AmesFireWater.com
USA: Control Valves Tel: (713) 943-0688 • Fax: (713) 944-9445 • AmesFireWater.com
Canada: Tel: (905) 332-4090 • Fax: (905) 332-7068 • AmesFireWater.ca
Latin America: Tel: (52) 55-4122-0138 • AmesFireWater.com