

GENERAL CONSTRUCTION NOTES

- A. Prior to commencing construction, three sets of Approved Construction Plans (Civil Set) shall be provided to the Town of Addison Public Works Department.
B. The contractor shall obtain a Right-of-Way Permit from the Town of Addison prior to working within the public right-of-way.
C. It is the contractor's responsibility to contact any Utility Companies for location of existing facilities in or near the work areas.

Table with utility providers: The Town of Addison, Onco Gas and Electric, SBC (Southwestern Bell), TD/Charter Cable, Comcast (AT&T), MCI WorldCom, Brooks Cable, Explorer Pipeline

PRIOR TO FINAL ACCEPTANCE BY THE TOWN OF ADDISON, THE FOLLOWING ITEMS SHALL BE COMPLETED:

- 1. The contractor, at their expense, shall repair any existing pavement, curb, irrigation system, landscaping, and/or sidewalks damaged or removed due to construction activity.
2. Lot pins shall be installed after construction and prior to final acceptance.
3. The contractor shall stamp a 2-inch "W" and a 2-inch "S" in the curb at the location of the water and sewer service lines, respectively.

Table of connection fees: Connection fees: 0.75" = \$50.00, 1" = \$100.00, 1.5" = \$150.00, 2" = \$400.00, 3" = \$500.00, 4" = \$600.00, 6" = \$800.00, 8" = \$1,000.00, 10" = \$1,200.00

Domestic (potable) Use:

- 1. All commercial unit applications for domestic use having flow demands greater than 160 g.p.m. shall employ either a compound type meter, or a single-jet meter, 2", and conforming to Town of Addison Specifications.
2. Single-jet meters be Metron-Farmer Spectrum® meters.

Lawn Irrigation:

- 1. All irrigation services > 1.5" shall employ a Class 1 turbine, or single-jet type meter conforming to the above guidelines.
2. Less than 1.5" irrigation service may use disc meters, but Class 1 turbine or single-jet meters are preferred.
3. Connection fees are waived for irrigation services.

Fire Service:

- 1. Less than or equal to 2" meters shall be a turbine, or single-jet meter as described above.
2. Greater than 2" shall employ either a Double Check Detector Assembly, or a Reduced Pressure Zone Detector Assembly.
3. Connection fees apply, see above.

Backflow Prevention Assemblies:

- 1. All water services (except fire services > 2", see above) shall have the appropriate BPA installed immediately after the meter.
2. All BPA's must be on the most current List of Approved Backflow Prevention Assemblies as published by the USC-FCCOHR.
3. The appropriate BPA will be determined by the Town of Addison Utility Division, using the most current edition of the Manual of Cross-Connection Control as published by USC-FCCOHR as a guideline.

- 4. The plumber, contractor, and/or owner is responsible for having the BPA tested upon installation and initiation of service by a Tester certified according to TCEQ Rules for the specific type of installation (i.e. Fireline, General).
5. Stainless steel, brass, or nylon/plastic plugs shall be placed in all test cocks after testing.
6. Double Check Valve Assemblies may be placed in a meter box, but the box must be of sufficient size to provide the proper clearance for accessing, testing, and repair of the device.

WATER SERVICE Sizes 3/4" - 2"

Contractors and/or plumbers are responsible for compliance with the following specifications:

- A. Meters shall be set within the utility easement and clear of vehicular traffic flow and/or parking spaces.
B. To prevent the inflow of mud or silt into the box, 4"-6" of washed pea gravel shall be placed under the meter inside the box, allowing for 2"-6" of open space below the meter.
C. Meter boxes shall be large enough to allow access to, and operation of, all meter nuts/flanges/bolts, and the curb stop without obstruction.

3/4" - 2" WATER SERVICE APPROVED MATERIALS AND PROCEDURES

- 1. Double-strap bronze tapping saddle with CC. (AWWA taper) threads: Mueller #BR2B, Ford #202B, or McDonald #3825.
2. Corporation stop with AWWA taper thread (CC) by conductive compression connection: Mueller H-15013 or B2500B (1.5", 2"), Mueller H-15008 or H2500B (3/4", 1"), Ford FB1000 (1.5", 2", 3"-6-G, -7-G respectively), 3/4", 1", -3-G, -4-G, respectively), McDonald 4701T or 4701BT.
3. Pipe and meter size shall be determined by owner with approval of Building Inspection or Public Works/Engineering Departments.

WATER SERVICE Sizes > 2"

Contractors, plumbers, and/or developers are responsible for compliance with the following specifications:

- A. Provide and install mechanical joint tapping sleeve (such as Mueller H-615).
B. Provide and install tapping valve to meet Addison specification GV-95.1, for resilient wedge gate valve.
C. Provide and install piping. Piping shall conform to ASNI/AWWA C-900-98 for Molecularly Oriented PVC Pressure pipe for water distribution.
D. Fittings shall be ductile iron mechanical joint style, with restraining glands (such as Mega-Lug). Fittings shall be wrapped with 8-mil poly prior to backfill.

TOWN OF ADDISON SPECIFICATION #FH-95-1 FIRE HYDRANTS

All fire hydrants installed for use in the Town of Addison shall meet or exceed AWWA Standard C 502-85 or the latest revision thereof. Rated working pressure shall be at least 150psi, test pressure shall be 300psi, and hydrant shall be capable of flowing 1000gpm (class A). All hydrants shall be manufactured in the United States and shall be manufacturer's best grade.

- 1. General Design
A. 3-way style consisting of 2 opposing hose nozzles separated by 1 pumper nozzle, dry barrel type.
B. A clearly visible arrow and the word "OPEN" shall be cast in relief on the top of the hydrant.
C. Operating nut shall be all bronze, one piece, pentagon measuring 1 1/4" from point to flat and at least 1 1/4" in height.

2. Operation

- A. Hose nozzles shall be 2 1/4" - 7.5" NS, pumper nozzle shall be 4" pumper gauge (40480) after the manner of City of Dallas and City of Carrollton Standards.
B. Main valve closure shall be compression type, opening against line pressure and closing with the pressure.
C. Lubrication of the upper stem threads, operating nut threads, upper and lower thrust collar bearing surfaces, and O-ring stem seals shall be accomplished automatically as the hydrant is operated.
D. The "traffic mode" safety flange shall employ unweakened stainless steel hex head bolts (AWWA C502, Sec. 3.2.17), and fasteners sufficient strength to bear all test and operating pressures.

TOWN OF ADDISON SPECIFICATION #GV-95.1 RESILIENT SEATED GATE VALVES

All gate valves installed in the Town of Addison shall be of the resilient wedge type conforming to AWWA C509, Standard for Resilient Seated Gate Valves, in its most current revision. In addition, all valves shall include the following design criteria:

- 1. Wedge shall be cast or ductile iron, full encapsulated in synthetic rubber.
2. Wedge rubber shall be milled in place and permanently bonded to the iron without screws, rivets, or similar fasteners.
3. Wedge shall seat against seating surfaces arranged symmetrically about the centerline of the operating stem, so that seating is equally effective regardless of direction of pressure imbalance across the wedge.
4. Valves for underground installations shall be non-rising stem type, opening counter clockwise by means of a 2" square operating nut.

WATER and SEWER SPECIFICATIONS

Water Mainline Piping

All mainline, fire line, and hydrant lead piping from 6-12 inches in diameter shall be AWWA C900-98 Molecularly Oriented PVC Pressure pipe (Class 150 min., Class 200 for fire lines) with Cast Iron O.D., or, when pipe penetrates meter vault walls it shall be Ductile Iron.

Embedment

Embedment shall comply with NCTCOG Class "B+" embedment of crushed stone to the spring line of the pipe, with sand (12" min.) over the pipe. A layer of geo-textile fabric shall be placed on top of the stone prior to the placement of sand.

Tracer

Tracer wire shall be placed on pipe prior to embedment. Wire shall be #12 plastic coated copper wire, tied to all valves and fire hydrants, and extending to 6" above finished grade along the outside of all valve stacks and hydrants.

Backfill

Finish backfill shall be native soil free of all rocks and clods greater than 3" in diameter, compacted to 95% Standard Proctor Density, in 8" maximum loose lifts, with 0% to +3% Optimum Moisture. Trenches under pavement may be backfilled with "flowable fill" to the level indicated by the pavement thickness, pending the approval of the Town's Engineering Department. Submit a "batch design" for any flowable fill requests.

Service Taps

Service taps must meet Town of Addison Standards. See General Requirements for Water Service for water service details. All taps must be inspected prior to backfilling.

Sanitary Sewer Pipe

Sanitary sewer mainline piping shall meet the extra strength requirements of ASTM Specification D3034, or SDR35 PVC for installations less than 10' deep. For installations greater than 10' deep, SDR 26 PVC shall be used. Pipe shall have the bell and spigot type joints, consisting of integral wall section with factory installed compression rubber ring gasket, securely locked in bell groove to provide positive seal under all installation conditions.

Fittings

Fittings shall be identical with the bell and spigot configuration of the pipe, and the same class rating.

Embedment

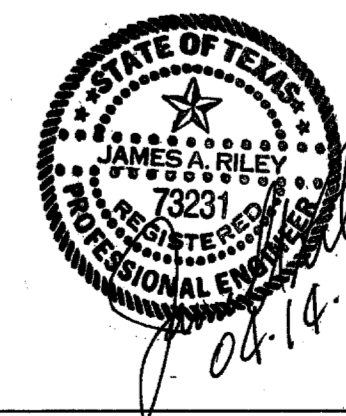
Mainline embedment shall be NCTCOG Class "B+", with the addition of a layer of geo-textile fabric prior to the placement of the sand, or as indicated on approved, engineered plans. Backfill shall be native material compacted 8" loose lifts to 95% Standard Proctor Density, with 0% to +3% Optimum Moisture, and free of any rocks or clods larger than 3" in diameter.

Connections at Manholes

Manholes are to be poured in place with 6 sack minimum concrete mix. Asbestos cement sleeves or approved equal with rubber ring joint shall be used at pipe penetrations to provide positive watertight seals. Connections at existing manholes shall be cored.

Sewer Taps

The contractor or plumber shall make all taps in new or existing sewer mains. Water must be pumped out of tapping trench throughout the operation to prevent inflow of groundwater into the sewer system. Service taps shall be made with standard wye fittings set at 45° of vertical. Lateral lines shall be SDR 35 PVC laid on 1/4" per foot minimum grade to the property line.



RECORD DRAWING April 14, 2010

NOTE: THESE PLANS HAVE BEEN REVISED TO CONFORM WITH CONSTRUCTION RECORDS PROVIDED BY THE CONTRACTOR.

Table with columns: No., REVISION, DATE, and a title block containing project name (AIRPORT WATER MAIN EXTENSION), engineer name (BROCKETTE • DAVIS • DRAKE, INC.), and a revision table at the bottom with entries for Design (JAR), Draw (BDD), Date (9/01/09), Scale (1"=20'), Notes (BDD), File (C09042), and No. (C3).