TOWN OF PROSPER
ENGINEERING SERVICES

Town of Prosper
Approved Materials List

FIRE HYDRANTS – SD-16 **DEEP BURY NO 45 DEGREE INSTALL**

- Waterous "Pacer WB67-250"
- M&H 5 ¼" Model 129
- Kennedy "K81D Guardian"
- American Flow Control

(Flushing Hydrant)

- Eclipse No.85 Blow Off Hydrant (Dead End)
- (Misc) Aluminum 5" nozzle

VALVES – SD-15

- American Flow Control – Series 2500 RW Valve
- Kennedy Resilient Wedge
- Clow Resilient Wedge
- Muller Model Series 2360 RW Valve
- M&H (Model TBD)
- Waterous (Model TBD)

VALVES – AIR RELEASE / COMBINATION AIR & VACUUM

- Golden Anderson Figure 950 – Kinetic Custom Combination Air Valve
- Apco (2" Square Nut Gate Valve)
- Valmatic (Model TBD)

WATER LINE PIPING ***(Blue Tracer Wire Required)***

- C-900 PVC (DR14 & DR18)
- RCCP – (TYPE C301 & C303)
- DI – (CL50 & CL51)
- C303 - Bar Wrapped Pipe
- Poly Service Line (tracer Wire embedded)
- AWWA C901 – Solid Wall High Density
- Polyethylene Pipe (HDPE)

SANITARY SEWER LINE PIPING ***(Green Tracer Wire Required Laterals)***

- SDR-35 PVC
- SDR-26 PVC

TAPPING SLEEVES **(Stainless Steel)**

- Tyler Traverse Tapping Sleeve
- Clow Traverse Tapping Sleeve
- Ford All Stainless Tapping Sleeve Style FTSS
- Ford All Stainless Tapping Sleeve Style FTSS-MJ
- Smith-Blair 665 Stainless Steel Tapping Sleeve with Stainless Steel Flange
- Smith-Blair 665MJ Stainless Steel Tapping Sleeve with Stainless Steel Flange
- Romac Industries, SST III

SERVICE SADDLES **All Double Strap Brass**

- Smith-Blair Brass 325 Double Strap Service Saddle
- Cambridge
- Ford
- McDonald

NOTE: ALL OF THE ABOVE SERVICE SADDLES ARE TO BE CC THREAD. SADDLES MUST BE SUPPLIED WITH STAINLESS STEEL BOLT/NUT/WASHER, WITH EXCEPTION TO A DOUBLE STRAP BRONZE SADDLE. DUCTILE BODY SADDLES MUST BE FUSION BONDED EPOXY/NYLON. STAINLESS TAPPING SLEEVES MUST BE SUPPLIED WITH STAINLESS BOLT/NUT/WASHER AND FLANGE. TO INCLUDE BRASS PLUG FOR TEMPORARY SERVICES

RESTRAINT (RETAINER) GLANDS

- EBAA Iron 1100 Series Megalug – Ductile Iron
- EBAA Iron 2000PV Series Megalug – C900
- Stargrip Series 4000 – C900 PVC
- Stargrip Series 3000 – D.I. Pipe
- Sigma – One Lok for C900/905 Pipe
- SIP Industries

CORPORATION STOPS **MUST BE CTS NUTS**

- Ford "F-1000-G" 1" "FB1000-G" 1 ½" and 2"
- Ford "F-1000-Q" 1", "FB1000-Q" 1 ½" and 2" CC Thread x Compression
- McDonald "4701T" Plug Style ¾" thru 2"
- Cambridge Brass "Brass Saddle with Bronze Straps"

ANGLE STOPS

- Ford "KV43-444-WG" on 1",
- Ford "KV43-666-WG" on 1 ½"
- Ford "FV43-777-WG" on 2"
- Ford "KV43-444-WQ" on 1"
- Ford "KV43-666-WQ" on 1 ½"
- Ford "FV43-777-WG" on 2"
- McDonald Brass "4602T" Plug Style ¾" and 1" only
- Cambridge (Model TBD)

DUCTILE IRON FITTINGS (C110 OR C153)

- Tyler Pipe Products
- Clow Products
- Star Pipe Products
- Sigma/Nappco Products
- Griffin Pipe Product

MANHOLE LIDS AND RINGS (400# - 32")

- Bass & Hays Foundry 400-32
- Bass & Hays Foundry 400-32D
- Western Iron Works
- Vulcan Foundry
- AccuCast 400-32
- Neenah R-1687 Manhole Frame, Solid Lid, Heavy Duty
- Certain Teed PAMREX Hinged Manhole Ring & Cover

VALVES STACKS AND BOXES

- Bass & Hays Pattern #340-1 (Shorty) Valve Box
- Bass & Hays Complete Box (Screw Type) with Drop Lid
- Tyler Pipe #6895 (Shorty) Valve Box
- Tyler Pipe Complete Box (Screw Type) with Drop Lid
- AccuCast Shorty Valve Box, Model #115001
- AccuCast Standard Valve Box, Model #111100
- Sigma "Shorty" Valve Box
- PVC Allowed To Within 5' of Finish Surface

AERIAL CROSSING PAINT

- Tnemec 66

FIRE HYDRANT PAINT

- Tnemec 2H Series, 37-77 Primer
- Tnemec Series 530-1201 Omnithane (replaces 43-38)

METER BOXES AND LIDS

- DFW Plastics, Inc. DFW-65C-14-1BA STAR Meter Box, DFW-16-AMR.12.1K meter box
- DFW16AMRXT (3/4" and 1")
- DFW65C-14-1QAF (1 ½" and 2")

VALVE STEM EXTENSIONS (WITH CENTERING DEVICES)

- Drop On (No Clips)

MANHOLE INSERTS (DISHES)

- Knutson Industries - J.C. Utility Sales Inc., Dallas, Texas
- No Flow Inflow Dishes as manufactured by No Flow Inflow, Inc. (.187 Material Thickness)

MANHOLE RISERS

- HDPE Adjustment Rings by Ladtech Inc.
- Concrete riser rings (available thru many vendors.) Rings will be solid, no cracks, not irregular shaped.

STORM SEWER PIPE

- Reinforced Concrete Pipe 18" – 78" Max (Class 3 or better – ASTM C-76)

CASING AND SPACERS

- 0.25" Minimum Thickness (Check depth requirements for minimum thickness)
- Raci Spacers

**WATER LINE TIE-IN PROCEDURES

1. When tying a new water line into an existing water line, where pressure testing and chlorination will occur on the new line, the testing will be accomplished against a new valve – not an existing system valve. Any exception must be made by the Utility Operations Superintendent or Public Works Manager, or in the absence of either a Utility Operations Supervisor.
2. Installing property line cleanout on rehab/new sewer line installations: When installing new sewer laterals/cleanouts, continue new lateral to existing tie in of City line to private (home) line. When installing cleanout, do not place in sidewalk; carry past sidewalk into grass even if necessary to cut property side line past existing cleanout. If cleanout has to be installed in lead walk or property owners' sidewalk, no cleanout will be installed.
3. When installing PAMREX manhole ring, skip step #9 – do not install the trough under the infiltration Plug – leave concrete solid under the plug. Also ensure that the secondary seal is placed on the lip of the cover during installation. These lids are to be used in dirt areas only and are not to be placed in low lying areas.

IN ADDITION TO GENERAL NOTES IN CIVILS, THE FOLLOWING APPLY:

- After rain events, ditches, trenches and work area must be accessible to Inspector. Dry out road to work area.
- Water Main Embedment (F1): 6" rock under pipe and 1/2 way up. One foot of sand on top with tape.
- Wastewater Main Embedment (F2): 6" rock under pipe and ¾ way up. 8" sand on top with tape.
- Storm sewer: rock 7/10 of the pipe then native fill
- When men are in ditch, keep ladder in ditch at all times per trench safety plans
- No more than 300 foot of pipe ditch open at a time (water, sewer and storm)
- Plug wastewater downstream manhole prior to proposed wastewater work and maintain on weekly basis
- All wastewater manholes require manhole chimney seals (rain pans) (except Type-S)
- All off-site wastewater manholes one foot above grade
- Fiberglass markers on all off-site water and wastewater manholes
- All fire hydrants in residential developments must be anchor nineties (90 degree) to main (no straight pipe)
- Storz nozzles required on all fire hydrants but no storz capsWater testing: 200 psi for 3 hours when typical gate valves are used or 150 psi for 4 hours when butterfly valves are used
- Verify breakaway stems are installed correctly on fire hydrants. These will be televised at Final Walk
- 48 hour notice required for all water main cut-ins
- Water samples shall be taken to one of the following labs: NTMWD (Wylie), Denton, Lewisville
- Temporary Poly for chlorinating and testing will be removed after passing samples. Remove corporation stop from saddle and plug with brass plug. Inspector must visually inspect.
- Water main bell minimum 5 foot beyond fittings
- No pvc valve stacks; use screw type cast iron
- Use valve nut extension for valves where nut exceeds 4 foot below valve box
- Keep streets cleaned and swept as needed
- Use of construction entrance required at all times
- Wipe clean all new fire hydrants prior to painting to prevent future flaking of paint due to shipping, road travel, grime and grease.