

# CITY OF FARMERSVILLE, TEXAS

## STANDARD CONSTRUCTION DETAILS

### JULY 2016

APPROVED FOR USE: \_\_\_\_\_

BENJAMIN L. WHITE P.E.  
PUBLIC WORKS DIRECTOR

DATE \_\_\_\_\_



# Farmersville

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**NOTE:**  
IF CONFLICT EXISTS BETWEEN HARD COPY AND  
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STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS



Farmersville

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DESIGNED: E.W.D.  
DRAWN: M.K.W. - DBI

DATE: 07-05-18  
REVISION: NC

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**INDEX**

DESIGNED: E.W.D.  
DRAWN: M.K.W. - DBI

DATE: 07-05-16  
REVISION: N/C

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CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS**



**INDEX**

DESIGNED: E.W.D.	DATE: 07-05-18
DRAWN: M.K.W. / DBI	REVISION: N/C

**GENERAL:**

1. A VARIANCE TO THESE STANDARDS AND SPECIFICATIONS MAY ONLY BE ALLOWED UPON WRITTEN REQUEST BY THE INSTALLER TO THE CITY OF FARMERSVILLE AND FORMAL WRITTEN APPROVAL BY THE PUBLIC WORKS DIRECTOR AND THE CITY OF FARMERSVILLE'S ENGINEER.
2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF FARMERSVILLE'S, NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (NCTCOG) AND TEXAS DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR THE PUBLIC WORKS CONSTRUCTION.
3. ALL RULES AND REGULATIONS OF THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) SHALL BE MET.
4. IN THE EVENT OF A CONFLICT, STATE REGULATIONS AND REQUIREMENTS SHALL PRESIDE FOLLOWED BY THE CITY OF FARMERSVILLE REQUIREMENTS AND THEN FOLLOWED BY NCTCOG STANDARD SPECIFICATIONS.
5. EXISTING UTILITIES SHALL BE LOCATED, IDENTIFIED, AND PROTECTED DURING THE INSTALLATION. CONFLICTS BETWEEN EXISTING UTILITIES AND PROPOSED UTILITIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
6. MATERIALS AND INSTALLATION SHALL BE GUARANTEED BY THE INSTALLER FOR A MINIMUM PERIOD OF TWO YEARS FROM THE DATE OF FINAL ACCEPTANCE WITH A MAINTENANCE BOND.
7. THE CITY OF FARMERSVILLE SHALL BE HELD HARMLESS FROM ANY DAMAGES OCCURRING DURING THE CONSTRUCTION OR WARRANTY PERIOD. ALL DAMAGES AS A RESULT OF THE CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE INSTALLER.
8. ALL THIRD PARTY TEST FACILITIES, USED IN CONNECTION WITH THE PROJECT, SHALL BE APPROVED BY CITY OF FARMERSVILLE OR CITY OF FARMERSVILLE'S REPRESENTATIVE BEFORE THEY ARE UTILIZED.
9. ALL WATER, USED BY THE INSTALLER FOR ANY PURPOSE, SHALL BE METERED UNLESS OTHERWISE SPECIFIED. METER SHALL BE SUPPLIED BY THE CITY OF FARMERSVILLE AT COST.
10. THE INSTALLER SHALL SECURE A COPY OF AN EXECUTED PERMIT AND BE FULLY AWARE OF THE REQUIREMENTS CONTAINED HEREIN BEFORE A JOB IS STARTED. A COPY OF THE FULLY EXECUTED PERMIT SHALL BE LOCATED AT ALL TIMES ON THE JOB, UNTIL FINAL COMPLETION.
11. INSTALLER SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH REPAIR OR REPLACEMENT OF ANY PAVEMENT (STREETS, ROADWAYS, OR DRIVEWAYS) AND UNDERGROUND UTILITIES DAMAGED AS A RESULT OF CONSTRUCTION OPERATIONS.
12. THE CITY OF FARMERSVILLE OR THE CITY OF FARMERSVILLE'S REPRESENTATIVE SHALL HAVE THE OPTION TO WITNESS ANY TESTS DONE IN CONNECTION WITH ANY PROJECT.
13. FOR ALL APPLICABLE PROJECTS, THE INSTALLER SHALL IMPLEMENT A STORM WATER POLLUTION PREVENTION PROGRAM IN ACCORDANCE WITH THE TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM (TPDES) GENERAL PERMIT NUMBER TXR150000.

STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS



GENERAL NOTES

DESIGNED: E.W.D.  
DRAWN: M.K.W. / DBI

DATE: 07-05-18  
REVISION: N/C

**SPECIFICATIONS:**

1. THIS PROJECT SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING CITY OF FARMERSVILLE SPECIFICATIONS. IN THE EVENT OF A CONFLICT BETWEEN THE SPECIFICATIONS BELOW AND THESE PLANS THEN THE PLANS WILL PRESIDE.
  - NUMBER 1001: EARTHWORK
  - NUMBER 1002: ROCK RIP-RAP
  - NUMBER 1003: SEEDING
  - NUMBER 1004: WATERLINE INSTALLATION
  - NUMBER 1005: STRUCTURAL EXCAVATING, BACKFILLING, AND COMPACTING
  - NUMBER 1006: CHAIN LINK FENCES AND GATES
  - NUMBER 1007: FLEXIBLE BASE
  - NUMBER 1008: SANITARY SEWER FORCE MAIN PIPES AND FITTINGS
  - NUMBER 1009: SEWER LINE CONSTRUCTION
  - NUMBER 1010: CONCRETE
  - NUMBER 1011: PRECAST CONCRETE VAULTS
  - NUMBER 1012: INSTRUMENTATION AND TELEMETRY
  - NUMBER 1013: SCADA SYSTEM
  - NUMBER 1014: STANDBY GENERATOR SET
  - NUMBER 1015: GAS CHLORINATION
  - NUMBER 1016: BUTTERFLY VALVES
  - NUMBER 1017: GATE VALVES
  - NUMBER 1018: AIR AND VACUUM RELEASE VALVES
  - NUMBER 1019: GRATING AND FLOOR PLATES
  - NUMBER 1020: MANUFACTURED CHLORINATION BUILDINGS
  - NUMBER 1021: LIQUID CHLORINATION
  - NUMBER 1022: AIR COMPRESSOR FOR HYDROPNEUMATIC
  - NUMBER 1023: RADIO READ METER SYSTEM
  - NUMBER 1024: CONFINED SPACE ENTRY PROCEDURE
  - NUMBER 1025: TRENCH EXCAVATION SAFETY SYSTEMS
  - NUMBER 1026: ASBESTOS CEMENT PIPE REMOVAL
  - NUMBER 1027: PAINTING OF WATER TANKS-HYDRO ZINC SYSTEM
  - NUMBER 1028: DISINFECTION OF WATER TANKS
2. CONSTRUCTION STANDARDS SHALL MEET THE FOLLOWING CODES:
  - INTERNATIONAL FIRE CODE, 2009
  - INTERNATIONAL BUILDING CODE, 2006
  - INTERNATIONAL PLUMBING CODE, 2006
  - NATIONAL ELECTRICAL CODE, 2008
  - INTERNATIONAL ENERGY CONSERVATION CODE, 2006
  - INTERNATIONAL FUEL GAS CODE, 2006
  - INTERNATIONAL MECHANICAL CODE, 2006
  - INTERNATIONAL EXISTING BUILDING CODE, 2006
  - INTERNATIONAL RESIDENTIAL CODE, 2006

STANDARD CONSTRUCTION DETAILS  
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COLLIN COUNTY, TEXAS



**SPECIFICATIONS**

DESIGNED: E.W.D.  
DRAWN: M.K.W. / DBI

DATE: 07-05-16  
REVISION: N/C

**PARTS AND MATERIALS:**

1. ALL PARTS AND MATERIALS USED ON ANY PROJECT SHALL BE MANUFACTURED IN THE USA UNLESS OTHERWISE APPROVED BY THE CITY OF FARMERSVILLE.
2. CORPORATION STOPS, SADDLES, TAPPING SLEEVES, CURB STOPS, METER STOPS, METER COUPLINGS, & PIPE COUPLINGS SHALL BE FORD.
3. GATES VALVES SHALL BE MUELLER.
4. FIRE HYDRANTS SHALL BE MUELLER.
5. SAMPLING STATIONS SHALL BE KUPFERLE ECLIPSE 88.
6. DUCTILE IRON AND CAST IRON FITTINGS, VALVE STACK EXTENSIONS SHALL BE TYLER DOMESTIC.
7. PIPE COUPLINGS SHALL BE SMITH BLAIR.
8. ENDPOINTS SHALL BE ADVANCE METERING INFRASTRUCTURE .
9. AMI NETWORKING SHALL BE TANTALUS.

N-03

STANDARD CONSTRUCTION DETAILS  
FOR  
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COLLIN COUNTY, TEXAS



Farmersville

**PART AND MATERIALS NOTES**

DESIGNED E.W.D  
DRAWN M.K.W / DBI

DATE 07-05-18  
REVISION N/C

### **WATERLINES AND FITTINGS:**

1. DUCTILE IRON PIPE (DIP), MEETING AWWA C151 CLASS 50 SPECIFICATIONS, MAY BE USED WHEN ALLOWED BY THE CITY OF FARMERSVILLE OR CITY OF FARMERSVILLE'S ENGINEER. DIP SHALL BE WRAPPED WITH A POLYETHYLENE LINER.
2. WATER LINE SHALL MEET THE REQUIREMENTS SPECIFIED IN THE TABLE "CITY OF FARMERSVILLE WATER LINE SPECIFICATIONS".
3. ALL HORIZONTAL AND VERTICAL BENDS SHALL BE BLOCKED.
4. ALL VALVES AND FITTINGS SHALL BE PROPERLY RESTRAINED WITH MEGA-LUGS OR APPROVED EQUIVALENT AND RETAINER GLANDS
5. ALL WATER LINES SHALL BE SWABBED IN THE PRESENCE OF THE INSPECTOR PRIOR TO BACKFILLING.
6. WATER LINES SHALL BE INSTALLED WITH A MINIMUM OF 42 INCHES AND A MAXIMUM OF 60" OF COVER, UNLESS OTHERWISE SHOWN. USE NCTCOG B+ BURY AND EMBEDMENT DETAILS FOR STANDARD APPLICATIONS.
7. EXISTING WATER LINES SHALL REMAIN IN SERVICE DURING CONSTRUCTION OF NEW WATER LINES.
8. NO COVERING OF WATERLINES ALLOWED UNTIL INSPECTED AND APPROVED BY A CITY OF FARMERSVILLE REPRESENTATIVE.
9. NEW WATER LINES SHALL BE TESTED, DISINFECTED, AND FLUSHED IN ACCORDANCE WITH TCEQ REQUIREMENTS INCLUDING TAKING THE REQUIRED NUMBER OF BACTERIOLOGICAL SAMPLES WHICH INDICATE PROPER DISINFECTION BEFORE THE WATER LINE CAN BE PLACED INTO SERVICE.
10. WATER LINES SHALL BE PRESSURE TESTED IN ACCORDANCE WITH NCTCOG ITEM 506.
11. ALL WATER LINE CROSSINGS OF SANITARY SEWER LINES SHALL BE AS SHOWN IN THE DETAILS AND MEET CURRENT TCEQ REQUIREMENTS.
12. DURING INSTALLATION A MINIMUM SEPARATION DISTANCE SHALL BE MAINTAINED IN ALL DIRECTIONS OF NINE FEET BETWEEN THE PROPOSED WATERLINE AND WASTE WATER COLLECTION FACILITIES, INCLUDING MANHOLES AND SEPTIC TANK DRAIN FIELDS. IF THIS DISTANCE CANNOT BE MAINTAINED, THE INSTALLER SHALL IMMEDIATELY NOTIFY THE CITY OF FARMERSVILLE'S ENGINEER FOR FURTHER DIRECTION. SEPARATION DISTANCES, INSTALLATION METHODS, AND MATERIALS UTILIZED SHALL MEET 290.44 OF THE TCEQ RULES.
13. WATERLINE ENCASEMENT FOR THE PURPOSES OF A GAS LINE CROSSING SHALL BE IN ACCORDANCE WITH GAS LINE SPECIFICATIONS.
14. UNLESS OTHERWISE SPECIFIED, WATER METERS SHALL NOT BE PLACED ON ROADWAY RIGHT-OF-WAY.
15. ABATEMENT AND REMEDIATION, OF ASBESTOS CONCRETE WATER LINES, SHALL BE DONE IN ACCORDANCE WITH SPECIFICATION #1026: ASBESTOS CEMENT PIPE REMOVAL
16. THE INSTALLER SHALL SUPPLY ALL EQUIPMENT NECESSARY TO SUCCESSFULLY CONDUCT ALL WATER TESTS, INCLUDING BUT NOT LIMITED TO, TEST PORTS, SAMPLE CONTAINERS, PUMPS, EXTERNAL WATER LINE, EXTERNAL HOSES, ETC.
17. NO FLARE JOINT CONNECTIONS ARE ALLOWED.
18. ALL TAPPING SLEEVES SHALL BE STAINLESS STEEL FULL WRAP.
19. ALL TAPPING SADDLES SHALL BE DOUBLE STRAP BRONZE.
20. WATER LINES SHALL BE INSTALLED IN ACCORDANCE WITH TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) WATER DISTRIBUTION SYSTEM GENERAL CONSTRUCTION NOTES.
21. WATER LINES AND/OR ROAD CROSSINGS INSTALLED ON PUBLIC RIGHT OF WAYS SHALL BE SUBJECT TO APPLICABLE STATE, COUNTY OR CITY REGULATIONS.

STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS



Farmersville

WATERLINE AND FITTINGS NOTES

DESIGNED E.W.D  
DRAWN M.K.W / DBI

DATE 07-05-18  
REVISION N/C



**WATERLINES AND FITTINGS CONT.:**

24. USE POLYETHYLENE WRAP FOR ALL BURIED DI PIPE AND FITTINGS.
25. ALL EXPOSED PIPING AND FITTINGS SHALL BE COVERED WITH 1-1/2" THICK MINIMUM ALUMINUM BACKED INSULATION.
26. INSTALLER SHALL FINISH GRADE TRENCH LINE TO MATCH EXISTING TERRAIN.
27. TYPICAL OFFSET FOR LONGITUDINAL LINES, OUTSIDE R.O.W., IS 7.5 FEET UNLESS OTHERWISE SHOWN.
28. TYPICAL OFFSET FOR LONGITUDINAL LINES, INSIDE R.O.W., IS 7.5 FEET UNLESS OTHERWISE SHOWN.
29. CASING SPACERS AND MOLDED RUBBER END CAPS ARE REQUIRED FOR ENCASEMENT. CASING SPACERS SHALL BE INSTALLED AT LEAST EVERY 5 FEET. CASING SPACERS ARE RACI OR APPROVED EQUIVALENT.
30. ALL PIPE DEEPER THAN 60" SHALL BE HDPE. NO FITTINGS DEEPER THAN 60" COVER.
31. INSTALLER SHALL APPLY AND PAY FOR NECESSARY BUILDING PERMITS AND COORDINATE ALL INSPECTIONS, AS NECESSARY.
32. LOCATION OF TEST STATIONS, FIRE HYDRANTS, AND METER SERVICE SHALL BE APPROVED BY CITY OF FARMERSVILLE OR CITY OF FARMERSVILLE'S REPRESENTATIVE PRIOR TO INSTALLATION.

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STANDARD CONSTRUCTION DETAILS  
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Farmersville

**WATERLINE AND FITTINGS NOTES**

DESIGNED: E.W.D.  
DRAWN: M.K.W. / DBI

DATE: 07-05-18  
REVISION: NC

**VALVES:**

1. ALL VALVES ON PIPES 12" AND SMALLER SHALL BE RESILIENT SEALED WEDGE VALVES (AWWA C515).
2. ALL VALVES ON PIPES LARGER THAN 12" BUT SMALLER THAN 30" SHALL BE RESILIENT SEALED WEDGE VALVES (AWWA C515).
3. ALL VALVES ON PIPES 30" AND LARGER SHALL BE BUTTERFLY VALVES (AWWA C504).
4. ALL VALVES SHALL BE MJ RW SQUARE HEAD UNLESS OTHERWISE NOTED.

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Farmersville

**VALVE NOTES**

DESIGNED: E.W.D.  
DRAWN: M.K.W. / DB

DATE: 07-05-16  
REVISION: N/C

**FIRE HYDRANTS:**

1. ALL FIRE HYDRANTS SHALL BE INSTALLED WITH A 24"x24" SQUARE REINFORCED CONCRETE PAD.
2. FIRE HYDRANTS SHALL BE PAINTED. COLOR SELECTION AND PAINT TYPE SHALL BE IN ACCORDANCE WITH DETAILS.
3. FIRE HYDRANT STREET REFLECTORS SHALL BE INSTALLED AS APPROPRIATE WITH ASSOCIATED FIRE HYDRANT ASSEMBLIES.

N07

STANDARD CONSTRUCTION DETAILS  
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Farmersville

**FIRE HYDRANT NOTES**

DESIGNED: E.W.D.  
DRAWN: M.K.W. / DBI

DATE: 07-05-18  
REVISION: N/C

**BORINGS:**

1. ROAD CROSSINGS SHALL BE ENCASED ACCORDING TO STATE, COUNTY OR CITY REGULATIONS.
2. A ROAD BORE PERMIT MUST BE DISPLAYED AND AVAILABLE FOR INSPECTION AS REQUIRED.
3. 8" AND LARGER ROAD BORES SHALL BE DRY BORE.
4. ALL BORE PITS OR OPEN EXCAVATION SHALL BE CLOSED THE SAME DAY THEY ARE OPENED IF AT ALL POSSIBLE. ANY PIT OR EXCAVATION LEFT OPEN OVERNIGHT SHALL BE BARRICADED. TEXAS DEPARTMENT OF TRANSPORTATION (TXDOT) RULES AND REGULATIONS SHALL APPLY FOR STATE RIGHT OF WAY APPLICATIONS.
5. WATER LINES, CROSSING BENEATH THE PROPOSED ROADWAY SURFACE, SHALL MAINTAIN A MINIMUM CLEARANCE OF 18 INCHES BETWEEN THE BOTTOM OF THE PAVEMENT STRUCTURE AND THE WATER LINE/ENCASEMENT.
6. BORE PIT EDGES SHALL BE AT LEAST 1-FT HORIZONTAL PER 1-FT VERTICAL DEPTH AWAY FROM THE EXISTING ROADWAY SHOULDER'S EDGE.
7. BORINGS SHALL HAVE A MINIMUM COVER OF 2-FT VERTICALLY BELOW THE EXISTING DITCH FLOW LINE.
8. RAILROAD BORES SHALL BE DRY BORE UNLESS OTHERWISE SPECIFIED.

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STANDARD CONSTRUCTION DETAILS  
FOR  
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COLLIN COUNTY, TEXAS



Farmersville

**BORING NOTES**

DESIGNED: E.W.D.  
DRAWN: M.K.W. / DBI

DATE: 07-05-18  
REVISION: N/C

**METERS AND VAULTS:**

1. NOTIFY THE CITY OF FARMERSVILLE PRIOR TO CONSTRUCTION OF METER VAULT OR BY-PASS ASSEMBLY.
2. VAULT SHALL NOT BE INSTALLED IN ANY DRIVE OR PARKING AREA & MUST BE LOCATED IN A UTILITY EASEMENT DEDICATED TO THE CITY OF FARMERSVILLE, UNLESS OTHERWISE SPECIFICIED BY THE CITY OF FARMERSVILLE.
3. ALL PIPING INSIDE THE VAULT & THE VAULT ITSELF MUST BE INSPECTED & APPROVED BY THE CITY OF FARMERSVILLE.
4. ALL PIPING INSIDE THE VAULT SHALL BE DUCTILE IRON PIPE WITH FLANGED FITTINGS.
5. THERE SHALL BE A SUPPORT UNDER EACH GATE VALVE.
6. INSTALLER SHALL PROVIDE ALL METER SETTINGS. CITY OF FARMERSVILLE SHALL PROVIDE WATER METERS ALONG WITH ANY RADIO FREQUENCY DEVICES.
7. VAULT DESIGNS SHALL BE APPROVED BY CITY OF FARMERSVILLE PRIOR TO CONSTRUCTION.

STANDARD CONSTRUCTION DETAILS  
FOR  
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COLLIN COUNTY, TEXAS



**METERS AND VAULTS NOTES**

DESIGNED: E W D  
DRAWN: M K W / DBI

DATE: 07-05-18  
REVISION: N/C

**SITE PREPARATION:**

1. SITE SHALL BE GRADED TO DRAIN WITH NO PUDDLING.
2. ALL GRADED AREAS SHALL BE HYDROMULCHED SEEDED BERMUDA OR OTHER SEASONAL GRASSES IN ACCORDANCE WITH SPECIFICATION #1003: SEEDING, UPON COMPLETION OF FINAL GRADING.
3. GRASS SOD CONSISTENT WITH SURROUNDING EXISTING GRASS SHALL BE INSTALLED IN GRADED AREAS ADJACENT TO EXISTING ESTABLISHED GRASS PART OF AN EXISTING COMMERCIAL OR RESIDENTIAL STRUCTURE.
4. EXCAVATION MATERIAL MAY BE SPREAD OUT ON SITE AS DIRECTED BY THE CITY OF FARMERSVILLE OR ENGINEER.
5. PROPER EROSION CONTROL MEASURES SHALL CONSIST OF THE INSTALLATION, MAINTENANCE, AND REMOVAL OF THE SILT FENCING, STRAW BALES, INLET SEDIMENT BARRIERS, ETC., INCLUDING ANY SEEDING (CELLULOSE FIBER MULCH) OF DISTURBED GRASS; SUCH MEASURES SHALL REMAIN IN PLACE AND WATERED SUFFICIENTLY UNTIL 70% RE-VEGETATION OF AN DISTURBED AREAS HAS BEEN ESTABLISHED.
6. FOR TXDOT PROJECTS, ANY EXCAVATION IN CLOSE PROXIMITY TO THE CURB AND GUTTER SHALL NOT BE PERFORMED UNTIL THE TEXAS DEPARTMENT OF TRANSPORTATION MAINTENANCE SUPERVISOR HAS BEEN CONTACTED TO DETERMINE IF SHORING IS REQUIRED.
7. FOR TXDOT PROJECTS, WHERE EXCAVATION OR BACKFILLING OPERATIONS DISTURB SOIL OR SODDING, SUCH AREAS SHALL BE RESTORED TO THE ORIGINAL STATE, IF NOT A BETTER CONDITION. AFTER BACK FILLING, MULCH SODDING, BLOCK SODDING, OR THE ESTABLISHMENT OF VEGETATION THROUGH SEEDING SHALL OCCUR ON ALL SLOPES OF 3 TO 1 OR FLATTER. BROADCAST SEEDING SHOULD BE LIMITED TO FLAT AREAS, WHICH HAVE CLAY OR TIGHT SOIL TEXTURE ONLY. THIS APPLICATION METHOD IS NOT RECOMMENDED FOR ANY SLOPED AREA OR ANY AREA WHOSE PREDOMINANT SOIL TEXTURE IS LOOSE OR SANDY. WHERE SLOPES ARE GREATER THAN 3 TO 1, BLOCK SODDING OR USE OF A SOIL RETENTION BLANKET IS RECOMMENDED. IF A SOIL RETENTION BLANKET IS USED, THE APPLICATION OF SEED UNDER SPECIFICATION ITEM 164 OF THE TEXAS STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS, AND BRIDGES BY THE BROADCAST METHOD IS RECOMMENDED.
8. INSTALLER SHALL BE RESPONSIBLE FOR PROVIDING ALL ASSOCIATED FORMS, PERMITS, MATERIALS, AND REVIEWS ASSOCIATED WITH A STORM WATER POLLUTION PREVENTION PROGRAM (SW3P) THAT IS COMPLIANT WITH THE LOCAL CITY, COUNTY AND/OR STATE REQUIREMENTS.

STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS



Farmersville

SITE PREPARATION NOTES

DESIGNED: E.W.D.  
DRAWN: M.K.W. / DB

DATE: 07-05-18  
REVISION: N/C

**ELEVATED WATER TANK RECOAT:**

1. RECOAT INTERIOR AND EXTERIOR TANK SURFACES IN ACCORDANCE WITH SPECIFICATION #1027: PAINTING OF WATER TANKS - HYDRO ZINC SYSTEM, FOR AN EXISTING TANK RECOAT PROJECT - WET NEAR WHITE, DRY INTERIOR AND EXTERIOR COMMERCIAL BLAST. COLOR AND LOGO DESIGN SELECTED BY CITY OF FARMERSVILLE REPRESENTATIVE. LOGO ON 2 SIDES OF THE TANK, LIKE THE CURRENT DESIGN.
2. INSTALLER SHALL DISINFECT THE TANK PRIOR TO PLACING IN SERVICE IN ACCORDANCE WITH SPECIFICATION #1028: DISINFECTION OF WATER TANKS.
3. PAINT CONTAINMENT PRACTICES FOR ENVIRONMENTAL AND PROPERTY CONCERNS SHALL BE AT THE DISCRETION OF THE PAINT INSTALLER.

N-11

STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS



Farmersville

ELEVATED WATER TANK RECOAT NOTES

DESIGNED: E.W.D.  
DRAWN: M.K.W. / DBJ

DATE: 07-05-18  
REVISION: N/C

**ELECTRICAL:**

1. ABOVE GROUND CONDUIT SHALL BE GALVANIZED RIGID.
2. BELOW GROUND CONDUIT SHALL BE WATER TIGHT SCHEDULE 80 PVC GLUED WITH PULL STRING.

N-12

STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS



Farmersville

**ELECTRICAL NOTES**

DESIGNED: E.W.D.  
DRAWN: M.K.W. / DBI

DATE: 07-05-18  
REVISION: N/C



**TRAFFIC CONTROL:**

1. TRAFFIC CONTROL SIGNAGE, BARRICADES, ETC., PER THE LATEST EDITION TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES SHALL REMAIN IN PLACE DURING CONSTRUCTION.
2. PROPER TRAFFIC CONTROL MEASURES SHALL BE MAINTAINED FOR DURATION OF CONSTRUCTION AS PRESCRIBED BY THE TEXAS DEPARTMENT OF TRANSPORTATION PERSONNEL. (REF. TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES) THE INSTALLER OR CITY OF FARMERSVILLE SHALL PROVIDE BARRICADES, WARNING SIGNS, AND FLAGGERS WHEN APPLICABLE.
3. OPERATIONS ALONG HIGHWAYS SHALL BE PERFORMED IN SUCH MANNER THAT ALL EXCAVATED MATERIAL, ALL OPERATING EQUIPMENT, AS WELL AS PARKED VEHICLES, ARE KEPT OFF THE PAVEMENT AT ALL TIMES. ANY VEHICLES REQUIRED TO REMAIN ON THE ROADWAY, INCLUDING SHOULDERS, ARE TO BE PROPERLY BARRICADED ACCORDING TO THE TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
4. CONSTRUCTION OPERATIONS SHALL BE SUSPENDED DURING WET CONDITIONS, WHEN IN THE CITY, COUNTY, OR STATE'S OPINION, DAMAGE TO THE RIGHT-OF-WAY COULD OCCUR OR WHEN SAFETY TO THE TRAVELING PUBLIC IS AN ISSUE.

N-13

STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS



Farmersville

TRAFFIC CONTROL NOTES

DESIGNED E.W.D.  
DRAWN M.K.W./DB

DATE 07-05-18  
REVISION N/C

**PAVING NOTES:**

1. CONCRETE FOR ALL STREETS SHALL BE IN ACCORDANCE WITH NCTCOG CLASS "C" CONCRETE (3,600 P.S.I. COMPRESSIVE @ 28 DAYS).
2. REINFORCING STEEL SHALL BE DEFORMED BARS NO. 3 ON 18 INCH CENTERS OR NO. 4 BARS ON 24 INCH CENTERS. REINFORCING SHALL BE IN BOTH DIRECTIONS ON CENTER. REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ASTM 615, 616 AND 617.
3. ALL REINFORCING STEEL SHALL BE TIED (100%). REINFORCING STEEL SHALL BE SET ON PLASTIC CHAIRS. BAR LAPS BE MINIMUM 30 DIAMETERS.
4. EXPANSION JOINTS SHALL BE SPACED EVERY 200 FEET AND AT ALL INTERSECTIONS. ALLEYS SHALL HAVE A MINIMUM OF TWO EXPANSION JOINTS.
5. SAWED TRANSVERSE DUMMY JOINTS SHALL BE SPACED EVERY 15 OR 1.25 TIMES LONGITUDINAL BUTT JOINT SPACING WHICHEVER IS LESS. SAWING SHALL OCCUR WITHIN 5 TO 12 HOURS AFTER THE POUR INCLUDING SEALING. OTHERWISE THE SECTION SHALL BE REMOVED AND LONGITUDINAL BUTT JOINT CONSTRUCTED.
6. SUBGRADE UNDER PAVEMENTS SHALL BE A MINIMUM OF 7 INCHES OF LIME TREATED SUBGRADE. ONLY HYDRATED LIME SHALL BE UTILIZED. OPTIMUM LIME SHALL BE APPLIED. OPTIMUM LIME CONTENT SHALL BE DETERMINED DURING THE EXCAVATION BY THE USE OF A LIME SERIES TEST. LIME SERIES TEST SHALL BE TAKEN ALONG THE EXCAVATION AT ALL CHANGES IN SOIL AND A MINIMUM OF 300 FEET. LIME SERIES SHALL BE COMPLETED BY AN INDEPENDENT LABORATORY APPROVED BY THE CITY OF FARMERSVILLE.
7. LIME TREATED SUBGRADE SHALL BE COMPACTED TO A DENSITY OF NOT LESS THAN 95 PERCENT OF THE MAXIMUM DENSITY AS DETERMINED BY ASTM D 698. MOISTURE CONTENT SHALL BE WITHIN -2 TO +4 OF OPTIMUM. DENSITY TEST RESULTS SHALL BE COMPLETED BY AN INDEPENDENT LABORATORY APPROVED BY THE CITY OF FARMERSVILLE. ALL RESULTS SHALL BE PROVIDED TO THE CITY OF FARMERSVILLE.
8. LIME TRIMMINGS ARE NOT ACCEPTABLE FOR ANY USE.
9. ALL FILL SHALL BE COMPACTED BY MECHANICAL METHODS. MAXIMUM LOOSE LIFT FOR COMPACTION SHALL BE 8 INCHES. ALL LIFTS SHALL BE TESTED FOR DENSITY BY AN INDEPENDENT LABORATORY APPROVED BY THE CITY OF FARMERSVILLE. DENSITY REQUIREMENT SHALL BE AS SHOWN ON THE PLANS FOR THE TYPE OF MATERIAL CALLED FOR IN THE PLANS.
10. ALL DISTURBED AREAS OF ROADWAY WORK SHALL HAVE GRASS ESTABLISHED IMMEDIATELY. GRASS SHALL MEET THE REQUIREMENTS OF ITEM 3.8, 3.9, 3.10 & 3.11 OF NCTCOG.
11. ALL AREAS TO BE EXCAVATED OR FILLED SHALL HAVE EROSION CONTROL PLACED PRIOR TO COMMENCING EARTHWORK. EROSION CONTROL DEVICES SHALL BE MAINTAINED THROUGHOUT THE PROJECT IN ACCORDANCE WITH NCTCOG ITEM 3.12.
12. ALL SIDEWALKS SHALL INCLUDE BARRIER FREE RAMPS AT INTERSECTING STREETS, ALLEYS, DRIVEWAYS, ETC. BARRIER FREE RAMPS SHALL MEET CURRENT ADA REQUIREMENTS AND BE APPROVED BY THE TEXAS LICENSING BOARD.
13. SIDEWALKS SHALL BE DOWELED INTO PAVEMENT WHERE IT ABUTS DRIVEWAYS. EXPANSION JOINT MATERIAL SHALL BE USED AT THESE LOCATIONS.
14. NO VEHICLES SHALL BE PERMITTED ON CONCRETE PAVEMENT WITHOUT APPROVAL FROM THE CITY OF FARMERSVILLE. THE CITY OF FARMERSVILLE WILL MAKE DETERMINATION BASED ON CONCRETE BREAK REPORT.
15. CONCRETE MIX DESIGN SHALL BE SUBMITTED FOR REVIEW.
16. ALL PAVING FOR PARKING SHALL BE MIN. 5" THICK 3,600 P.S.I. CONCRETE SUBJECT TO CITY OF FARMERSVILLE ENGINEER APPROVAL.
17. ALL AREAS NOT UNDER PAVING SHALL BE COMPACTED TO A DENSITY OF NOT LESS THAN 92 PERCENT OF THE MAXIMUM DENSITY.

STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS



Farmersville

PAVING NOTES

DESIGNED: E.W.D.  
DRAWN: M.K.W. / DBI

DATE: 07-05-16  
REVISION: N/C

**LINED CHANNELS**

1. CONSTRUCTION JOINT SHOWN IN DETAILS FOR CONVENIENCE ONLY, MONOLITHIC CONSTRUCTION MAY BE USED.
2. ALL VISIBLE SURFACES SHALL BE A TROWEL FINISH.
3. ALL REINFORCING STEEL SHALL BE 3/8" DIAMETER AND SPACED 12" CENTER TO CENTER BOTH WAYS UNLESS OTHERWISE SPECIFIED.
4. IF WOOD FORMS ARE USED WITH CONSTRUCTION JOINT, THEY SHALL BE TWO, 2"x4", AND SHALL NOT BE REMOVED UNTIL CONCRETE ON SLOPES IS READY.
5. ALL CONCRETE IN LINED CHANNEL SHALL BE NCTCOG CLASS "A" (MINIMUM 3,000 P.S.I.) CONCRETE.
6. FLAT BOTTOM TO BE CONSTRUCTED WHEN CHANNEL WIDTH IS LESS THAN 12 FOOT.
7. 3/4" CHAMFER ON ALL CONCRETE CORNERS.

N-15

STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS



Farmersville

**LINED CHANNEL NOTES**

DESIGNED: E.W.D.  
DRAWN: M.K.W. / DBI

DATE: 07-05-16  
REVISION: N/C

### **STORM WATER**

1. THE FLOOR OF THE EXCAVATION FOR INLET BOX MUST PROVIDE A FIRM, LEVEL BED FOR THE BASE SECTION TO REST UPON.
2. A MINIMUM OF 6 INCHES OF 1" DIAMETER (MAXIMUM) ROCK OR GRAVEL SHALL BE USED TO PREPARE THE BEDDING TO FINAL GRADE OR IN LIEU OF THIS, AT LEAST 6 INCHES OF 2-SACK CEMENT STABILIZED SAND SHALL BE USED TO PREPARE THE BEDDING TO GRADE. CEMENT STABILIZED-SAND SHALL BE ALLOWED TO SET BY KEEPING HOLE PUMPED DRY.
3. AFTER PIPE HAS BEEN LAID ON PROPER BEDDING, BACKFILLING TO COMMENCE WITH 8" MAXIMUM LOOSE LIFTS MECHANICALLY COMPACTED TO 95% STANDARD PROCTOR UNDER ROADWAY OR 12" MAXIMUM LOOSE LIFT BEHIND CURB. MAXIMUM SIZE ROCK IN BACKFILL SHALL NOT EXCEED 4 INCHES IN DIAMETER.
4. PRECAST INLETS SHALL BE APPROVED BY THE CITY OF FARMERSVILLE.
5. CONCRETE SHALL BE MINIMUM 4,200 P.S.I.
6. LOCKING DEVICE IS REQUIRED ON ALL STORM WATER LIDS.
7. CONCRETE CAST-IN-PLACE INLETS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,200 P.S.I. @ 28 DAYS.
8. STORM DRAIN TILE SHALL BE PLACED IN THE CENTER OF THE INLET, 2 INCHES FROM THE EDGE OF OPENING AS SHOWN IN THE DRAWING. USE PL-200 CONSTRUCTION ADHESIVE FOR APPLICATION. TILES CAN BE ORDERED FROM: CENTERLINE SUPPLY, INC., 425 JESSE STREET, GRAND PRAIRIE, TEXAS 75061-1141. 1-800-321-1731, METRO: 214-647-8300, FAX: 214-641-1221.
9. EXISTING STORM WATER PIPE AND/ OR LATERALS SHALL BE LOCATED PRIOR TO SETTING OF CONSTRUCTING INLET BOXES. IF ADJUSTMENT IN GRADE OF LATERAL IS REQUIRED, A REVISED DESIGN BY THE ENGINEER OF RECORD SHALL BE SUBMITTED TO THE CITY OF FARMERSVILLE FOR APPROVAL.
10. REINFORCED CONCRETE PIPE CLASS III IS APPROVED WITHIN THE CITY OF FARMERSVILLE.

N-16

STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS



Farmersville

### **STORM WATER NOTES**

DESIGNED: E.W.D.  
DRAWN: M.K.W. / DBI

DATE: 07-05-16  
REVISION: N/C

**PROPERTY AND BUILDINGS:**

1. LOCKS FOR GATES AND BUILDINGS SHALL BE INCLUDED. LOCK TYPE SHALL BE SPECIFIED BY CITY OF FARMERSVILLE. LOCKS SHALL BE KEYED IN ACCORDANCE WITH CITY OF FARMERSVILLE SPECIFICATIONS.
2. NON-VEHICULAR CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 3,000 P.S.I. @ 28 DAYS.
3. REINFORCEMENT - ASTM A-36.
4. MASONRY - COMPRESSIVE STRENGTH SHALL BE PRESCRIBED IN ITEM 2.3.6 SPECIAL PROVISIONS.
5. WIND LOAD FOR DESIGN - 20 P.S.F.
6. PIER BEARING STRESSES - SEE BRICK SCREENING WALL NOTES.
7. MORTAR - TYPE "S".
8. PROVIDE CONTROL JOINTS AT 50 FEET, MINIMUM.
9. PROVIDE EXPANSION JOINTS AT 200 FEET CENTER MAXIMUM.
10. PROVIDE PIER WITH MINIMUM 9 FOOT W/ 24 INCH DIAMETER BELL IN CLAY OR OTHER MATERIAL EXCEPT BLUE SHALE, 6 FOOT MINIMUM WITH 3 FOOT MINIMUM INTO BLUE SHALE.
11. ALL EXPOSED CONCRETE SHALL BE CLASS 2 RUBBED FINISHED SURFACE.
12. SIDEWALKS ADJACENT TO WALLS MUST BE 5-FOOT MINIMUM WIDTH FROM ALL PORTIONS OF THE WALL (INCLUDING PILASTERS, COLUMNS, ETC.).
13. IF WROUGHT IRON FENCING IS TO BE UTILIZED ON REQUIRED SCREENING, ALL WROUGHT IRON MUST BE SOLID STOCK, NO TUBULAR STEEL WILL BE ALLOWED.

STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS



PROPERTY AND BUILDING NOTES

DESIGNED E.W.D.  
DRAWN M.K.W. / DBI

DATE 07-05-18  
REVISION N/C

**WASTE WATER:**

1. MANHOLES SHALL BE PRECAST. ALL MANHOLES SHALL BE WATER TIGHT. PRECAST MANHOLES SHALL HAVE JOINTS SEALED WITH NON-SHRINKABLE GROUT. ALL RING AND COVERS SHALL INCLUDE AN INTERNAL CHIMNEY SEAL.
2. ALL PIPE OPENINGS IN MANHOLES SHALL INCLUDE COUPLINGS WITH "O" RING RUBBER GASKETS.
3. STUBOUTS OUT OF MANHOLES SHALL BE FITTED WITH A STOPPER AND CAP. STUBOUTS SHALL BE A MINIMUM OF 5 FEET FROM MANHOLE AND BE SUPPORTED BY A CONCRETE CRADLE.
4. MANHOLES SHALL BE VENTED IN ACCORDANCE WITH TCEQ REQUIREMENTS.
5. ALL SANITARY SEWER PIPE SHALL BE TESTED (NCTCOG ITEM 6.7.2) AFTER CONSTRUCTION. TESTING SHALL INCLUDE PRESSURE TESTING, MANDREL TEST (TNRCC REQUIRED) AND COLOR TV INSPECTION. COLOR TV INSPECTION SHALL BE COMPLETED IN PRESENCE OF CITY OF FARMERSVILLE REPRESENTATIVE AND THE ORIGINAL DATA SHALL BE GIVEN TO THE CITY OF FARMERSVILLE AT THE COMPLETION OF THE INSPECTION.
6. MANHOLES SHALL BE VACUUM TESTED IN THE PRESENCE OF THE CITY OF FARMERSVILLE REPRESENTATIVE.
7. NO END-OF-LINE CLEANOUTS WILL BE ALLOWED. TERMINATE SEWER LINES WITH A MANHOLE.

N-18

STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS



Farmersville

WASTE WATER NOTES

DESIGNED: E.W.D.  
DRAWN: M.K.W. / DBI

DATE: 07-05-18  
REVISION: N/C

# CITY OF FARMERSVILLE WATER LINE SPECIFICATIONS

APPLICATION	MATERIAL	DIAMETER	STANDARD	DIMENSION RATIO	PRESSURE RATING	NOTES
Standard Carrier Pipe	PVC	4" to 12"	AWWA Standard C900	DR 18	150 psi	
Standard Carrier Pipe	PVC	14" to 48"	AWWA Standard C905	DR 25	165 psi	
Restrained Joint Carrier Pipe	PVC	4" to 12"	AWWA Standard C900	DR 18	150 psi	Certa-Lok or Eagle Loc 900
Restrained Joint Carrier Pipe	PVC	16"	AWWA Standard C905	DR 25	165 psi	Certa-Lok
Restrained Joint Carrier Pipe, UV Protected and High Impact Strength	Yelomine	4" to 12"	AWWA Standard C900	DR 18	150 psi	Certa-Lok, permanent use joints
State Roadway Crossing Encasement, Open Cut	Steel	4" to 24"	ASTM A252 Grade 2, Wall Thickness Schedule 40 or 0.375" whichever is less	N/A	N/A	
City/County Roadway Crossing Encasement, Open Cut	PVC	14" to 48"	AWWA Standard C905	DR 25	165 psi	
City/County Roadway Crossing Encasement, Open Cut	PVC	4" to 12"	AWWA Standard C900	DR 25	150 psi	
City/County Roadway Crossing Encasement, Open Cut	PVC	2" to 3.5"	ASTM D 2241 I.P.S. - O.D.	DR 21 Schedule 40	160 psi	
State Roadway Bore Encasement	Steel	4" to 24"	ASTM A252 Grade 2, Wall Thickness Schedule 40 or 0.375" whichever is less	N/A	N/A	Dry bore >= 8", Minimum wall thickness is 0.25 inch
State Roadway Bore Encasement	Steel	2" to 3"	ASTM A 53 Grade A Schedule 40 Black Pipe with Merchant Coupling (Threaded Ends)	N/A	N/A	
City/County Roadway Bore Encasement	HDPE	4" to 63"	AWWA Standard C906 I.P.S.	DR 11	160 psi	Dry bore >= 8"
City/County Roadway Bore Encasement	PVC	2" to 3"	ASTM D 2241 I.P.S. - O.D.	DR 21 Schedule 40	160 psi	
Railroad Crossing Encasement	Steel	4" to 24"	Use railroad specifications	N/A	N/A	
Creek Crossing Encasement	HDPE	4" to 63"	AWWA Standard C906 I.P.S.	DR 11	160 psi	
Service Line	PE	1" to 3"	AWWA Standard C901	SDR 9	200 psi	

NOTE  
1 CARRIER PIPE SHALL BE JOINT RESTRAINED IF ENCASED.

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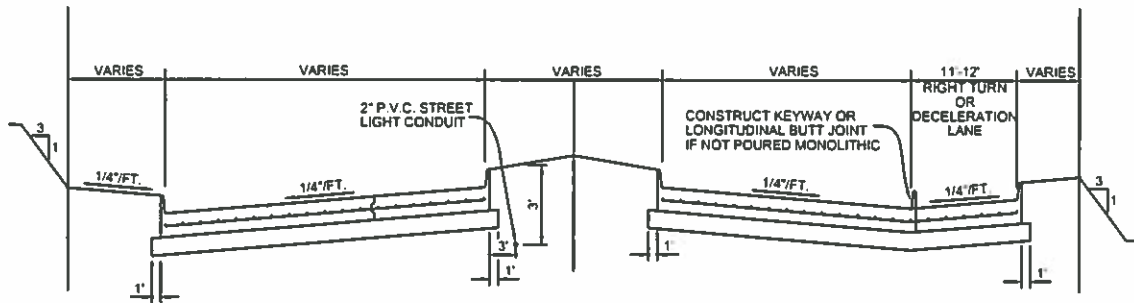
STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS



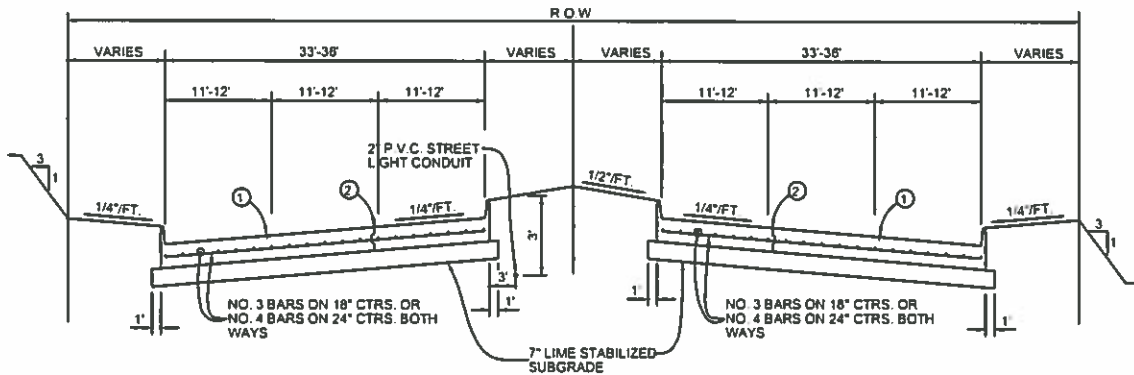
CITY WATERLINE SPECIFICATIONS

DESIGNED: E.W.D.  
DRAWN: M.K.W. / DBI

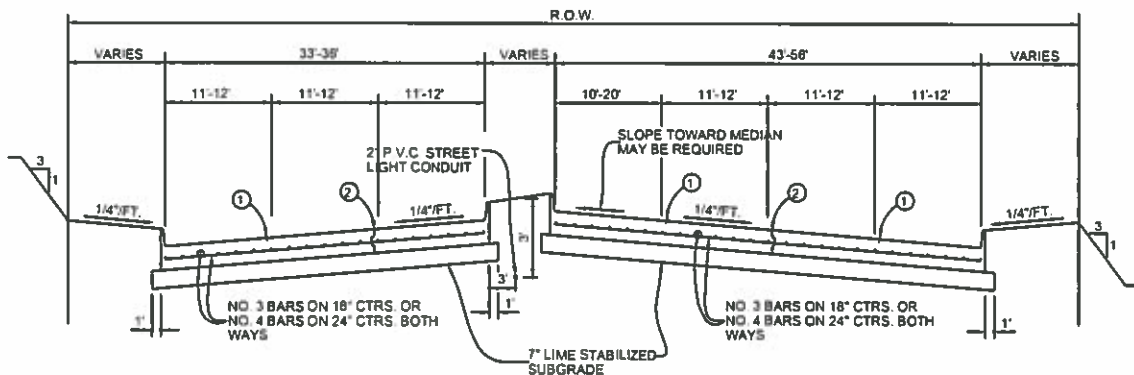
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REVISION: N/C



**RIGHT TURN OR DECELERATION LANE SECTION**



**REGULAR SECTION**



**LEFT TURN SECTION**

**LEGEND**

1. SAWED LONGITUDINAL -DUMMY JOINT
2. CONSTRUCTION JOINT (FULL WIDTH A. PVMT. IS ALLOWED WHERE APPROVED BY CITY)

SECTIONS SHALL HAVE MINIMUM PAVEMENT THICKNESS OF 8 INCHES.

NOTE: SIDEWALKS SHALL BE INCLUDED IN ALL STREET RIGHT-OF-WAYS. LOCATION AS DETERMINED BY THE CITY.

STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS



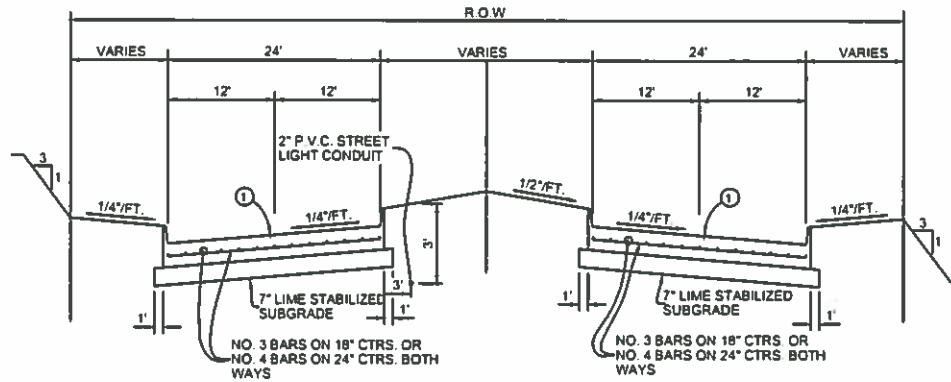
Farmersville

PAVING SECTIONS

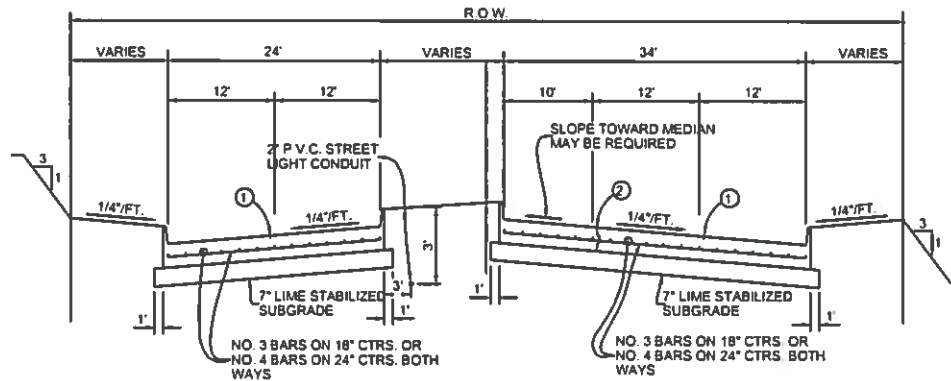
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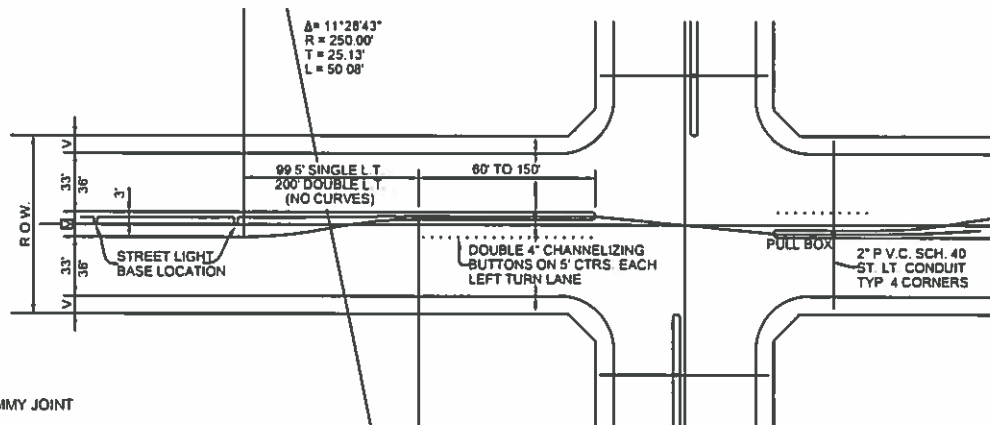


**REGULAR SECTION**



**LEFT TURN SECTION**

NOTE:  
FOR RETROFIT TURN LANES AND MEDIAN OPENINGS, TWO ADDITIONAL  
INCHES OF CONCRETE CAN BE PLACED IN LIEU OF LIME STABILIZATION.



**LEGEND**

1. SAWED LONGITUDINAL -DUMMY JOINT
2. CONSTRUCTION JOINT (FULL WIDTH A. PVMT. IS ALLOWED WHERE APPROVED BY CITY).

**LEFT TURN PLAN**

SECTIONS SHALL HAVE  
MINIMUM PAVEMENT  
THICKNESS OF 8 INCHES.

NOTE:  
SIDEWALKS SHALL BE  
INCLUDED IN ALL STREET  
RIGHT-OF-WAYS. LOCATION  
AS DETERMINED BY THE  
CITY.

STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS

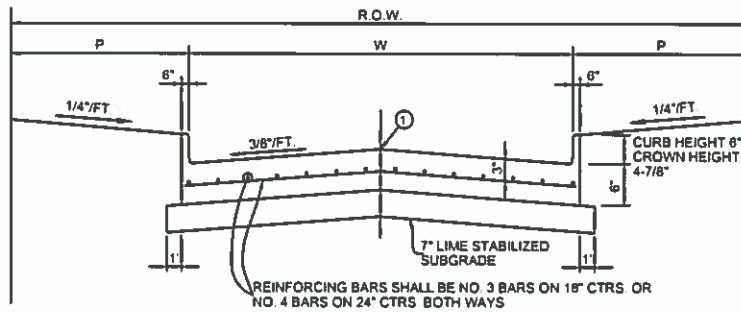


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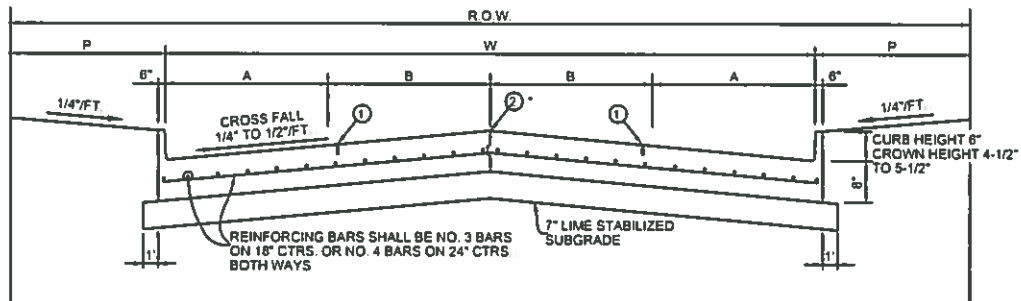
PAVING SECTIONS

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DRAWN: M.K.W. / DBI

DATE: 07-05-10  
REVISION: N/C



**REGULAR SECTION**



**REGULAR SECTION**

**LEGEND**

- ① SAWED LONGITUDINAL -DUMMY JOINT
  - A. CONSTRUCTION JOINT (FULL WIDTH A. PVMT. IS ALLOWED WHERE APPROVED BY CITY).
- ② B. DELETE IT WHEN PAVING IS 25 FT. WIDTH TO BE WIDENED IN FUTURE. INSTALL CURB IF PAVING IS LESS THAN FULL WIDTH OF 33'-36'.

STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS

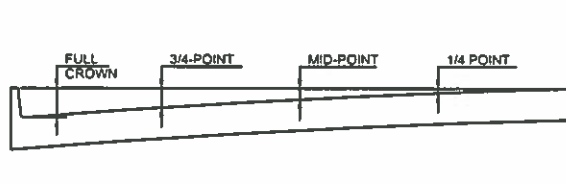


Farmersville

PAVING SECTIONS

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DRAWN: M.K.W. / DBI

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REVISION: N/C

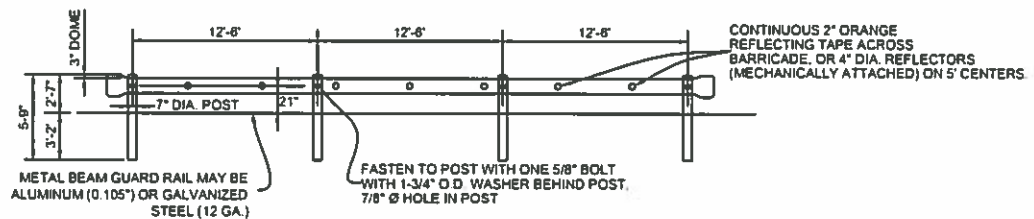


ROADWAY WIDTH (W)	TOTAL CROWN HEIGHT	3/4 POINT	MID-POINT	1/4 POINT
28'	4"	2-1/4"	1"	1/4"
36'	6"	3-3/8"	1-1/2"	3/8"
44'	6"	3-3/8"	1-1/2"	3/8"

TABLE OF CROWN HEIGHTS AND ORDINATES

FOR VARIOUS PARABOLIC SECTIONS

SLIP-FORM PAVEMENT MUST MEET CROWN GRADES AT GUTTERS, AT MID-POINTS & C  
 PARABOLIC ROADS ONLY TO BE CONSTRUCTED WITH SLIP FORM PAVERS  
 APPROVED ROADWAY WIDTHS: 31, 32, 38, 48, 72



NON CONSTRUCTION BARRICADES (PERMANENT BARRICADES) SHALL CONSIST OF TxDOT GF(TD)-87 METAL BEAM GUARD FENCE WITH TERMINAL CONNECTOR SECTIONS AT EACH END. PERMANENT BARRICADES SHALL BE MANUFACTURED AND CONSTRUCTED IN ACCORDANCE WITH TxDOT DETAILS. BARRICADE SHALL EXTEND FROM OUTSIDE CURB TO OUTSIDE CURB.

### TYPICAL PERMANENT BARRICADE DETAIL

STANDARD CONSTRUCTION DETAILS  
 FOR  
 CITY OF FARMERSVILLE  
 COLLIN COUNTY, TEXAS

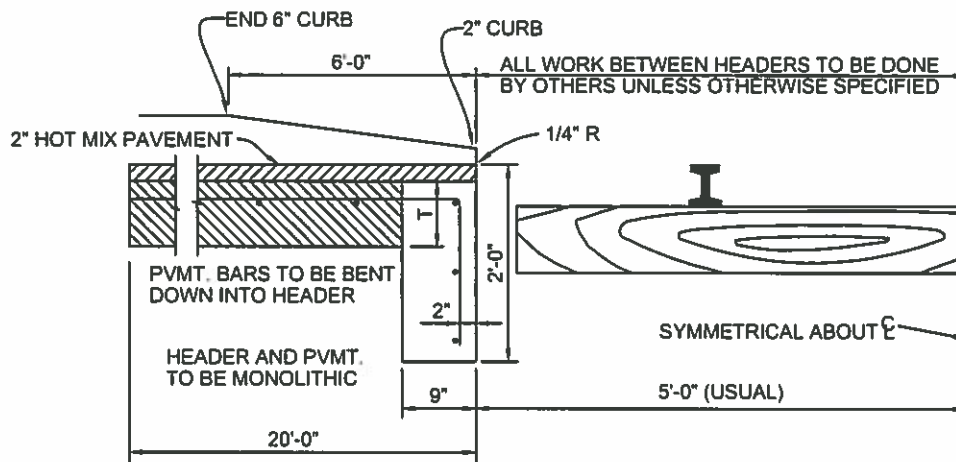


PERMANENT BARRICADE

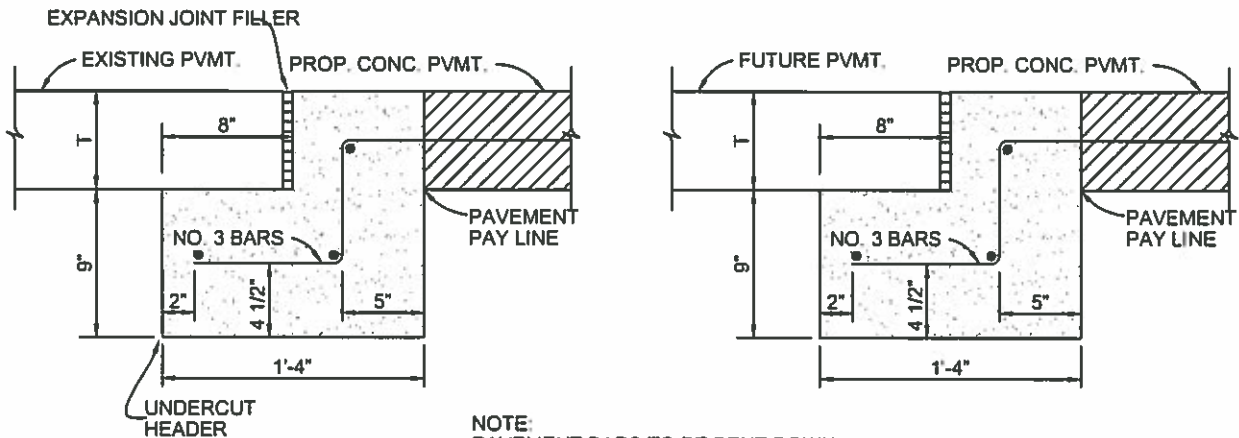
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 DRAWN: M.K.W. / DBI

DATE: 07-05-16  
 REVISION: N/C

ST-04



## RAIL HEADER



NOTE:  
PAVEMENT BARS TO BE BENT DOWN  
INTO HEADER. PAVEMENT AND HEADER  
SHALL BE MONOLITHIC.

## STREET HEADER

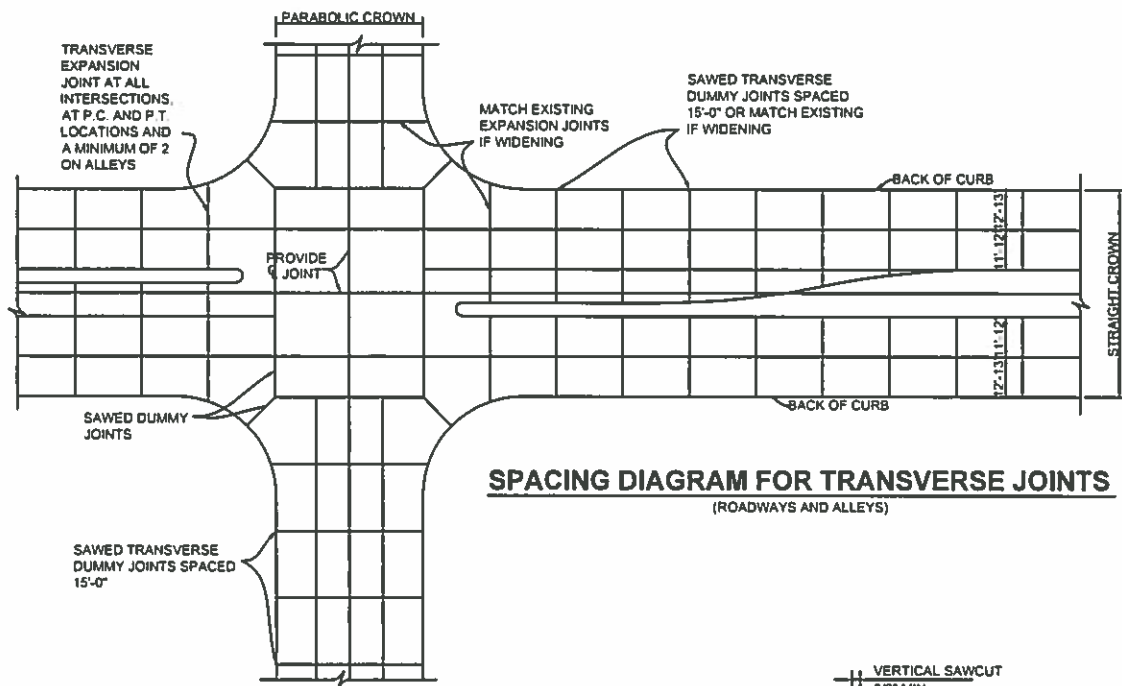
STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS



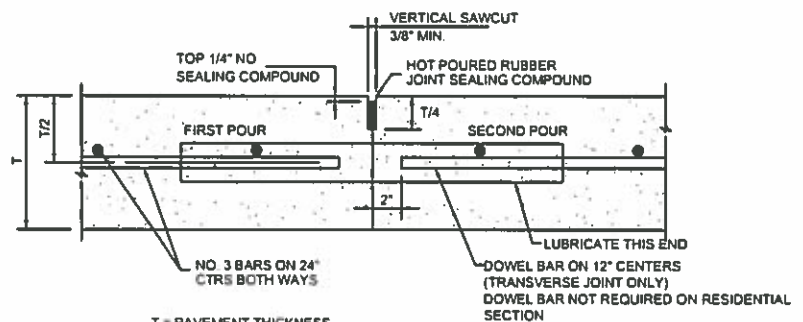
STREET HEADER & RAIL HEADER

DESIGNED: E.W.D.  
DRAWN: M.K.W. / DBI

DATE: 07-05-16  
REVISION: N/C



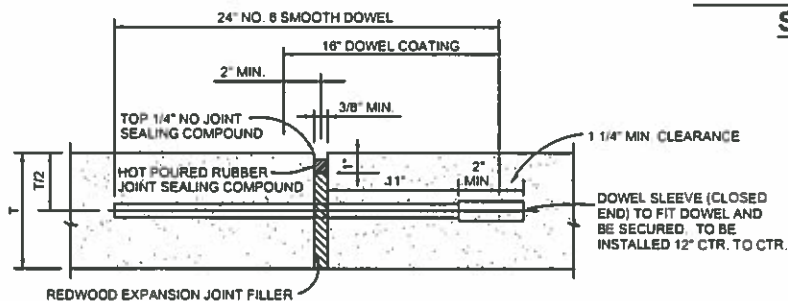
**SPACING DIAGRAM FOR TRANSVERSE JOINTS**  
(ROADWAYS AND ALLEYS)



T = PAVEMENT THICKNESS

1 DOWELS AND REINFORCING BARS SHALL BE SUPPORTED BY AN APPROVED DEVICE.

### TRANSVERSE AND LONGITUDINAL SAWED DUMMY JOINT



**TRANSVERSE EXPANSION JOINT NOTES**

- 1 DOWELS AND REINFORCING BARS SHALL BE SUPPORTED BY AN APPROVED DEVICE
- 2 TRANSVERSE EXPANSION JOINTS SHALL BE LOCATED AT ALL INTERSECTIONS.

### TRANSVERSE EXPANSION JOINT

STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS

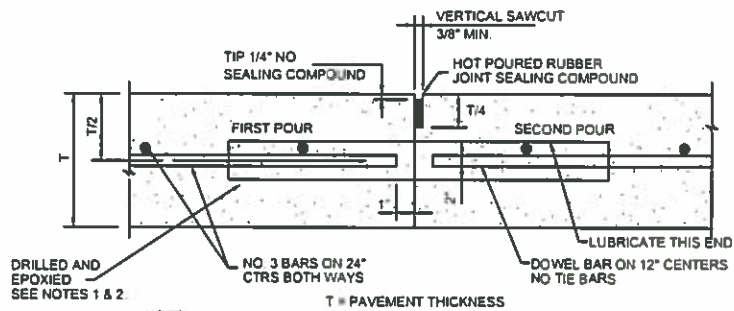


Farmersville

**PAVING JOINTS**

DESIGNED: E.W.D.  
DRAWN: M.K.W. / DBI

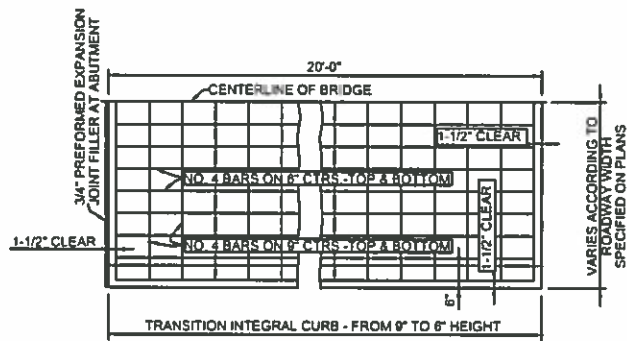
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REVISION: N/C



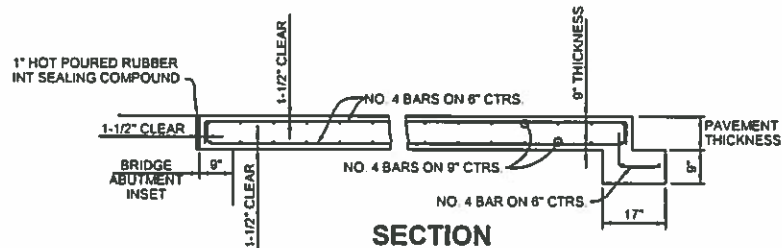
**NOTE:**

1. T-8" AND GREATER NO. 6 BAR, T-6" AND LESS NO. 5 BAR
2. DOWEL BARS SHALL BE DRILLED INTO PAVEMENT HORIZONTALLY BY USE OF A MECHANICAL RIG. HAND DRILLING NOT ACCEPTABLE AND PUSHING DOWEL BAR INTO GREEN CONCRETE IS NOT ACCEPTABLE. DAMAGE TO EXISTING PAVEMENT SHALL BE REMOVED BY CONTRACTOR AND JOINT CONSTRUCTED AT CONTRACTORS EXPENSE.
3. DOWELS AND REINFORCING BARS SHALL BE SUPPORTED BY AN APPROVED DEVICE

**TRANSVERSE AND LONGITUDINAL  
CONSTRUCTION JOINT**



**PLAN**



**SECTION**

**BRIDGE APPROACH SLAB**

STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS

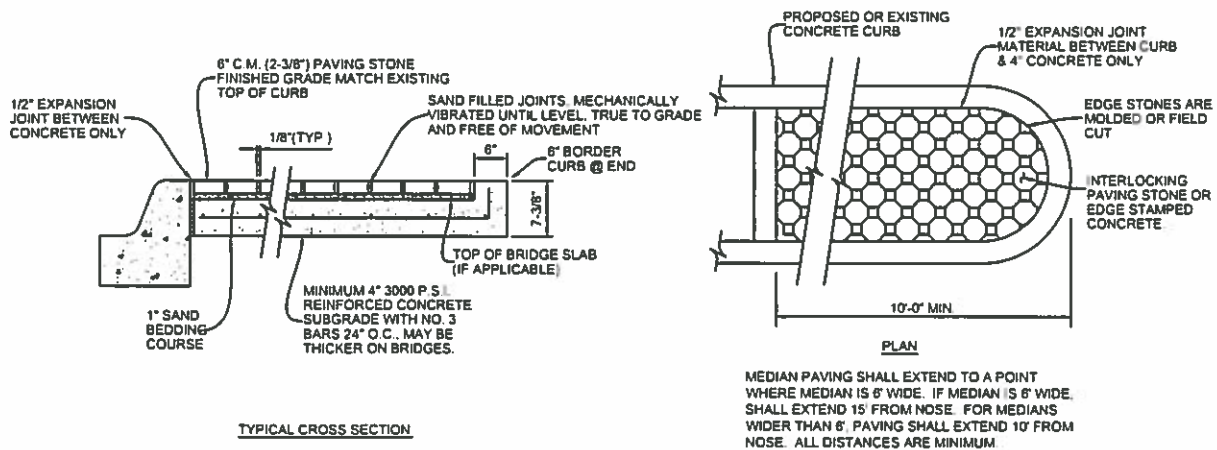


Farmersville

PAVING JOINTS

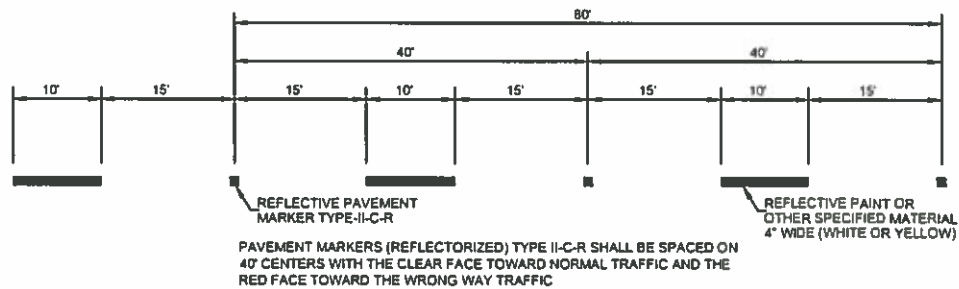
DESIGNED: E.W.D.  
DRAWN: M.K.W. / DBI

DATE: 07-05-16  
REVISION: N/C



## STAMPED CONCRETE OR INTERLOCKING PAVING STONE

COLOR AND STYLE TO BE SELECTED BY CITY



## LANE LINE PAVEMENT MARKING

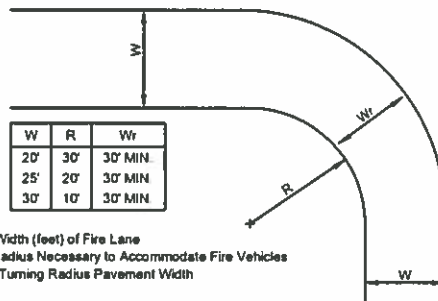
STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS



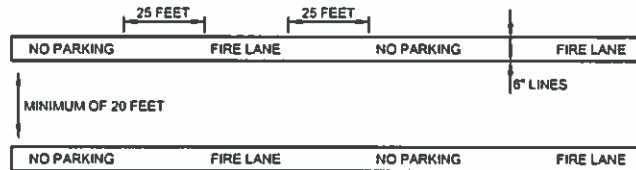
PAVING DETAILS

DESIGNED: E.W.D.  
DRAWN: M.K.W. / DBI

DATE: 07-05-18  
REVISION: N/C



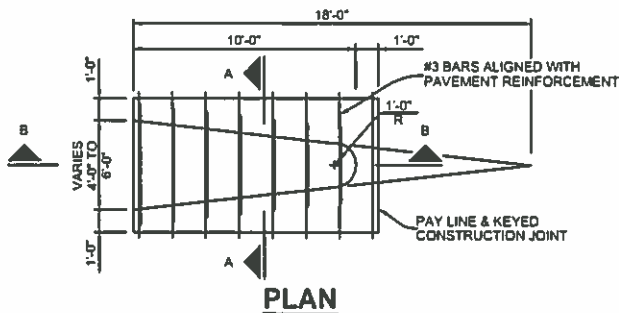
**FIRE LANE DESIGN**



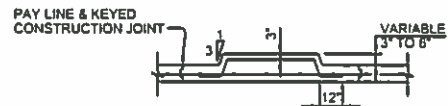
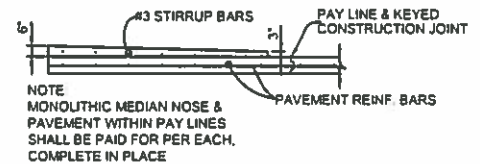
**NOTE**

1. THE FIRE CHIEF IS AUTHORIZED TO DESIGNATE FIRE LANES
2. FIRE LANES SHALL BE MARKED BY SIX INCH (6") WIDE LINES USING RED TRAFFIC PAINT. WITH THE WORDING "NO PARKING" AND "FIRE LANE" PAINTED ON THE LINES AT INTERVALS OF TWENTY-FIVE (25'). THE LETTERING WILL BE FOUR INCHES (4") HIGH WITH A ONE INCH (1") WIDE STROKE PAINTED WITH WHITE TRAFFIC PAINT.
3. FIRE LANES SHALL BE A MINIMUM OF TWENTY-FOOT (20') IN WIDTH.
4. ANY DEAD-END FIRE LANE MORE THAN ONE HUNDRED FIFTY-FOOT (150') LONG SHALL PROVIDE A TURN AROUND OF ONE HUNDRED FEET (100') IN DIAMETER AT THE CLOSED END.

**FIRE LANE MARKING**



**MONOLITHIC MEDIAN NOSE**



60-1S

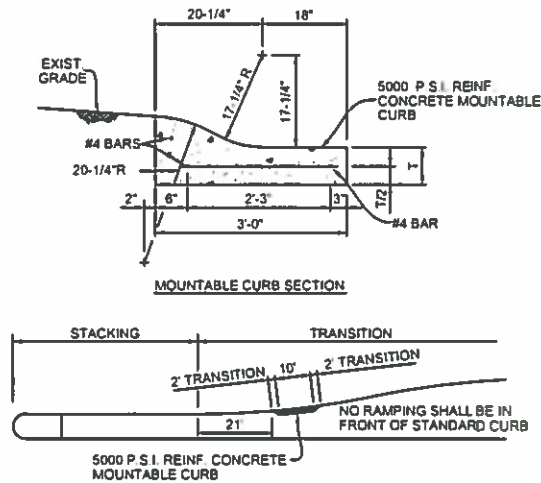
STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS



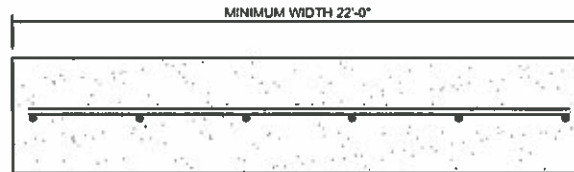
PAVING DETAILS

DESIGNED: E.W.D. DATE: 07-05-16  
DRAWN: M.K.W. / DBI REVISION: N/C





### MOUNTABLE CURB DETAIL-PLAN VIEW LANDSCAPE MAINTENANCE RAMP



1. ALL FIRE LANES SHALL BE PAVED WITH A MINIMUM OF 8 INCHES OF 3000 P.S.I. CONCRETE REINFORCED WITH #3 REBAR PLACED ON 18 INCH CENTERS EACH WAY ON A 6 INCH LIME STABILIZED SUBGRADE. THE SUBGRADE SHALL BE STABILIZED WITH HYDRATED LIME IN SUFFICIENT AMOUNT TO REDUCE THE PLASTICITY INDEX BELOW FIFTEEN (15). IF NO LABORATORY CONTROL IS USED, THE AMOUNT OF LIME SHALL BE EQUAL TO SEVEN AND ONE HALF (7-1/2) PERCENT BY UNIT DRY WEIGHT OF SOIL ESTIMATED AT 75 POUNDS PER CUBIC FEET OF 32 POUNDS OF LIME PER SQUARE YARD OF SURFACE AREA TREATED TO A 8 INCH THICKNESS.

2. ALL FIRE LANES MAY BE PAVED WITH 8 INCHES OF 3000 P.S.I. CONCRETE (28 DAYS COMPRESSIVE STRENGTH) REINFORCED WITH #3 REBAR PLACED ON 18 INCH CENTERS EACH WAY ON A SUBGRADE SCARIFIED AND COMPACTED TO AT LEAST 95% STANDARD PROCTOR DENSITY. CONTRACTION JOINTS SHALL BE SPACED AT A MAXIMUM OF 15.5 FEET ON CENTERS EACH WAY. CONTRACTION JOINTS MAY BE DUMMY OR SAWED JOINTS TO A DEPTH OF AT LEAST ONE (1) INCH DEEP. TO INSURE PROPER RUNOFF IN ORDER TO PREVENT PONDING, THE PAVEMENT SURFACE SHOULD HAVE A MINIMUM SLOPE OF 1/4" (12' PER 100 FEET).

3. ALTERNATE PAVING DESIGN:  
IN LIEU OF ITEMS LISTED ABOVE, THE DEVELOPER MAY SUBMIT AN ENGINEERED DESIGN THAT WILL BE EQUIVALENT IN PERFORMANCE OF THE SPECIFICATIONS ABOVE. THE EQUIVALENT DESIGN MUST TAKE INTO ACCOUNT THE SOIL CONDITIONS OF THE SITE TO BE DEVELOPED. SUCH DESIGN SHALL REQUIRE APPROVAL BY PUBLIC WORKS DIRECTOR.

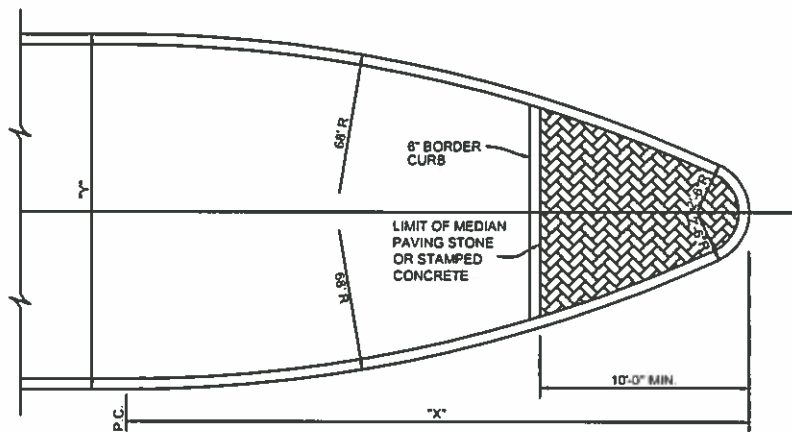
### FIRE LANE PAVING & JOINT DETAIL

STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS



PAVING DETAILS

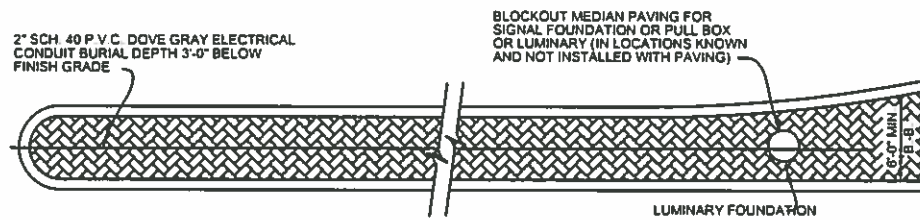
DESIGNED: E.W.D. DATE: 07-05-18  
DRAWN: M.K.W. / DBI REVISION: N/C



### DETAIL OF NOSE FOR MEDIAN ISLAND

DIMENSIONS OF MEDIAN NOSE

X = 13.90'	Y = 7.0'	X = 28.36'	Y = 14.0'
X = 16.44'	Y = 8.0'	X = 29.89'	Y = 17.0'
X = 18.06'	Y = 9.0'	X = 32.93'	Y = 20.0'
X = 20.42'	Y = 10.0'	X = 36.47'	Y = 24.0'



### DETAIL OF MEDIAN PAVEMENT

STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS



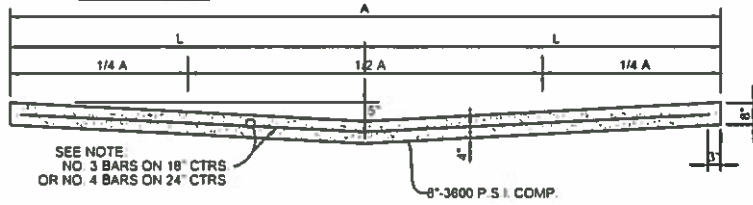
Farmersville

PAVING DETAILS

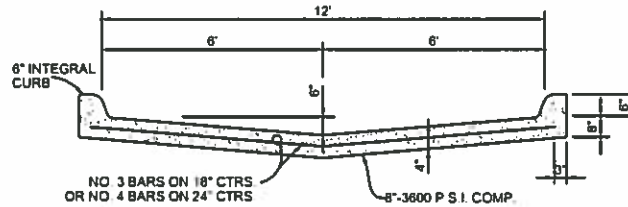
DESIGNED: E.W.D.  
DRAWN: M.K.W. / DBI

DATE: 07-05-16  
REVISION: N/C

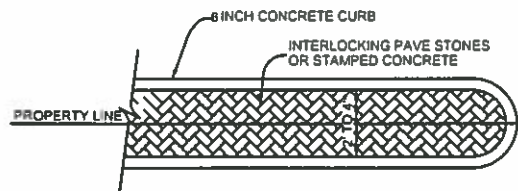
ALLEY WIDTH (A)	HALF WIDTH (L)
12'	6'
16'	8'
20'	10'



**STANDARD 12, 16' & 20' ALLEY SECTION**



**STANDARD ALLEY SECTION WITH CURBS**



**MEDIAN AT DRIVEWAYS SPLIT BY PROPERTY LINE**

**NOTE:**

1. CONTRACTOR SHALL PROVIDE No. 3 BARS ON 12" CTRS OR No. 4 BARS ON 18" CENTERS FOR OUTSIDE 1/4 ALLEY WIDTH AND PROVIDE No. 3 BARS ON 18" CTRS OR No. 4 BARS ON 24" CENTERS FOR MIDDLE 1/2 ALLEY WIDTH.
2. CONTRACTOR MAY AT HIS OPTION USE No. 3 BARS ON 12" CTRS OR No. 4 BARS ON 18" CTRS FOR ENTIRE ALLEY WIDTH AT NO ADDITIONAL COST TO THE CITY.

STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS



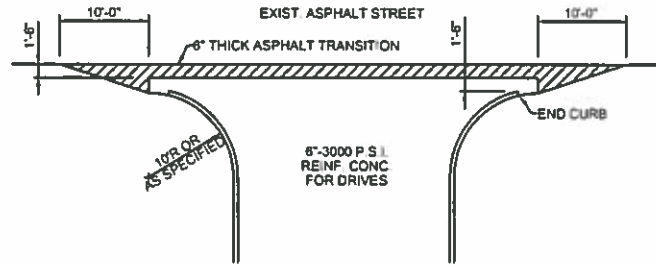
Farmersville

PAVING ALLEY / DETAILS

DESIGNED: E.W.D.  
DRAWN: M.K.W. / DBI

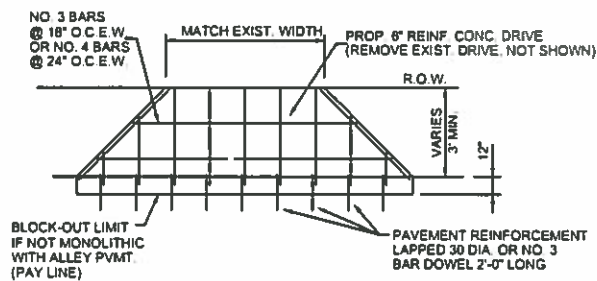
DATE: 07-05-18  
REVISION: N/C





TYPICAL DRIVE OR STREET CONNECTION

### TO EXISTING ASPHALT STREET



— ALLEY —

### DRIVEWAY RETURN TO ALLEY

**NOTE**

1. CONTRACTOR SHALL PROVIDE No. 3 BARS ON 12" CTRS OR No. 4 BARS ON 18" CENTERS FOR OUTSIDE 1/4 ALLEY WIDTH AND PROVIDE No. 3 BARS ON 18" CTRS OR No. 4 BARS ON 24" CENTERS FOR MIDDLE 1/2 ALLEY WIDTH
2. CONTRACTOR MAY AT HIS OPTION USE No. 3 BARS ON 12" CTRS OR No. 4 BARS ON 18" CTRS FOR ENTIRE ALLEY WIDTH AT NO ADDITIONAL COST TO THE CITY.

ST-14

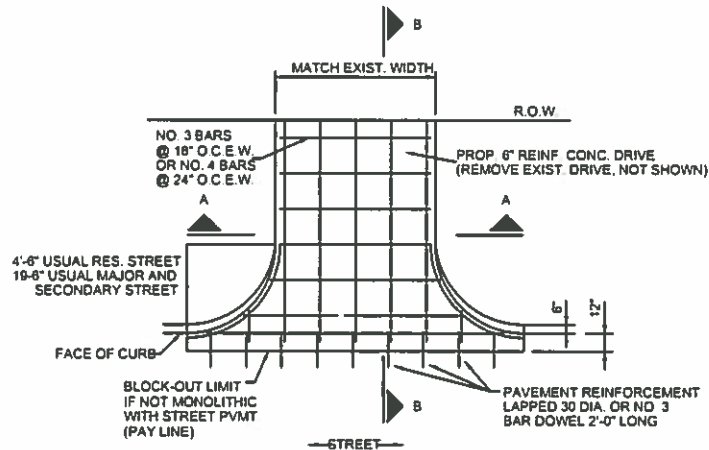
STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS



Farmersville

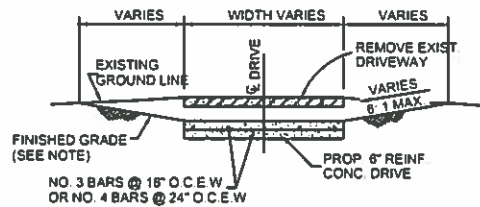
PAVING ALLEY / DETAILS

DESIGNED: E.W.D.	DATE: 07-05-18
DRAWN: M.K.W. / DBI	REVISION: N/C

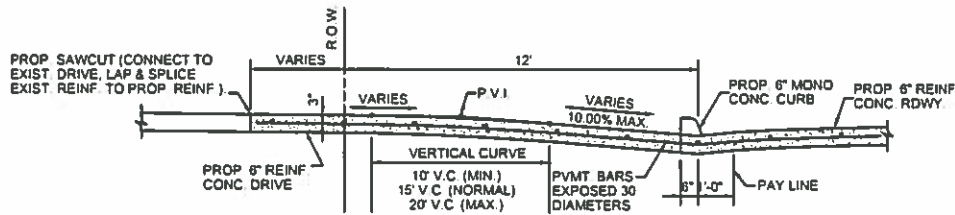


### DRIVEWAY RETURN TO STREET

**NOTES**  
FINISHED GRADING WITHIN THE R.O.W. SHALL BE BROADCAST SEEDED WHERE PROPOSED DRIVEWAY CONSTRUCTION GOES BEYOND THE R.O.W. AND INTO PRIVATE PROPERTY, THE FINISHED GRADING SHALL BE BLOCK SODDED TO RESTORE THE LANDSCAPING TO ITS PRE-CONSTRUCTION APPEARANCE.



### SECTION A-A



### SECTION B-B

### DRIVEWAY RETURN SECTIONS

**NOTE:**

1. CONTRACTOR SHALL PROVIDE No. 3 BARS ON 12" CTRS OR No. 4 BARS ON 18" CENTERS FOR OUTSIDE 1/4 ALLEY WIDTH AND PROVIDE No. 3 BARS ON 18" CTRS OR No. 4 BARS ON 24" CENTERS FOR MIDDLE 1/2 ALLEY WIDTH.
2. CONTRACTOR MAY AT HIS OPTION USE No. 3 BARS ON 12" CTRS OR No. 4 BARS ON 18" CTRS FOR ENTIRE ALLEY WIDTH AT NO ADDITIONAL COST TO THE CITY.

STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS

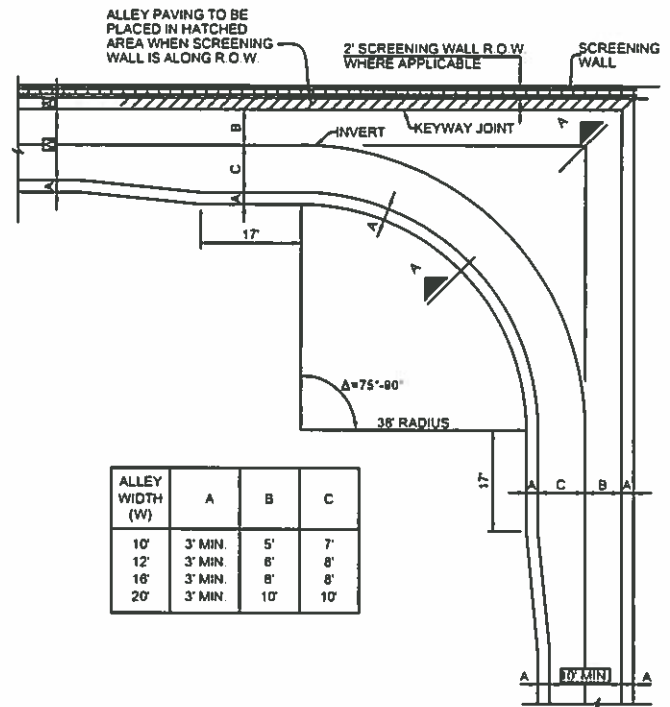
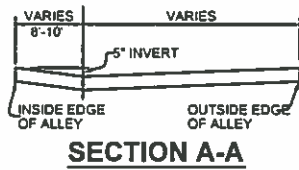


Farmersville

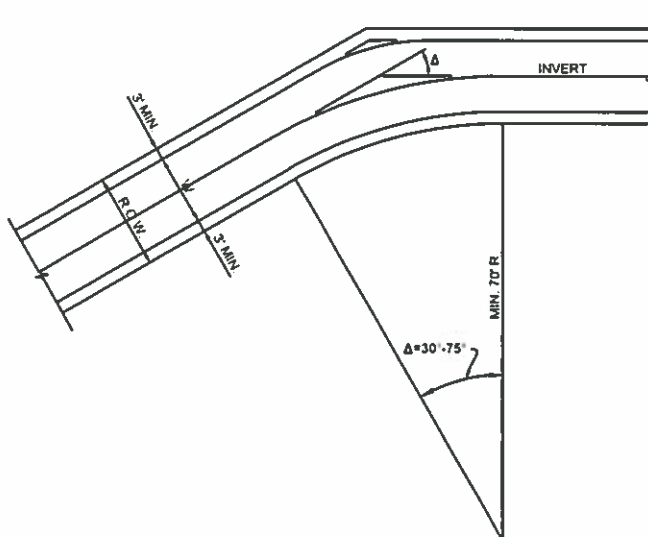
PAVING ALLEY / DETAILS

DESIGNED: E.W.D.  
DRAWN: M.K.W. / DBI

DATE: 07-05-16  
REVISION: N/C



**ALLEY TURN FOR  $\Delta = 75^\circ - 90^\circ$**



**ALLEY TURN FOR  $\Delta = 30^\circ - 75^\circ$**

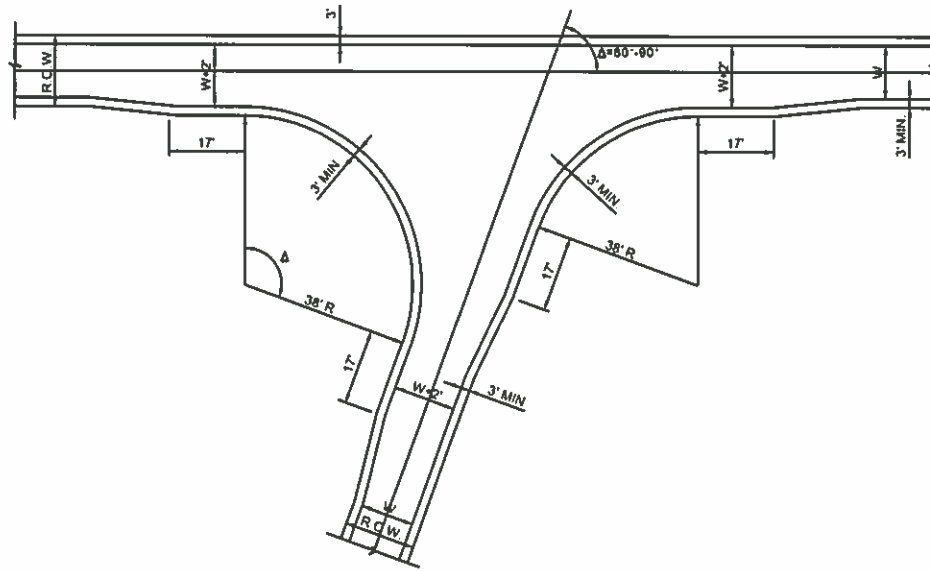
STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS



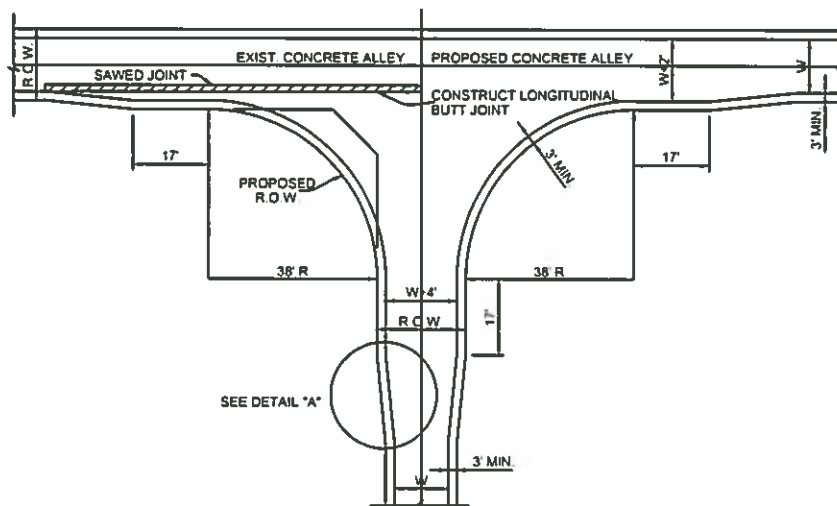
PAVING RADIUS

DESIGNED E.W.D.  
DRAWN M.K.W. / DBI

DATE: 07-05-16  
REVISION N/C



**ALLEY TURN FOR  $\Delta > 90^\circ$**



**ALLEY INTERSECTING ALLEY**



**DETAIL "A"**

ST-17

STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS



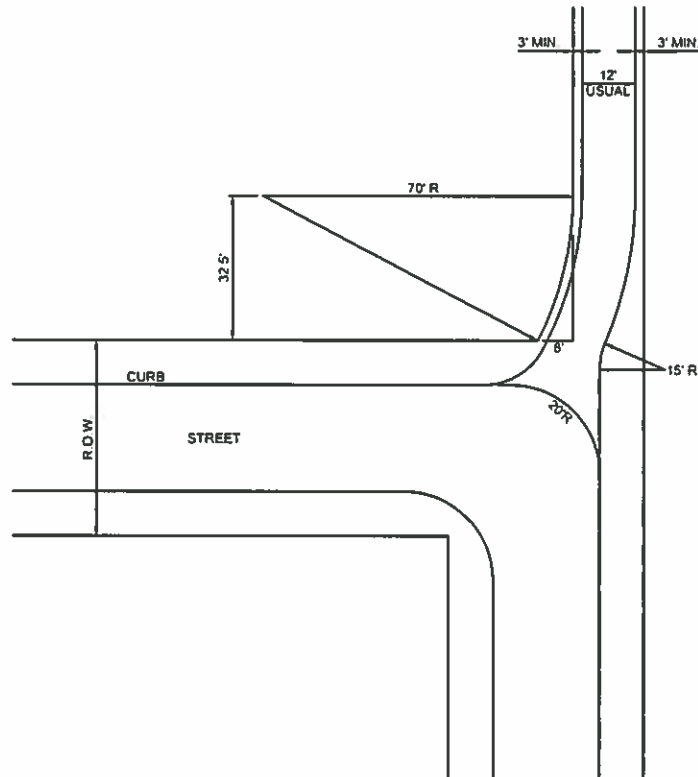
Farmersville

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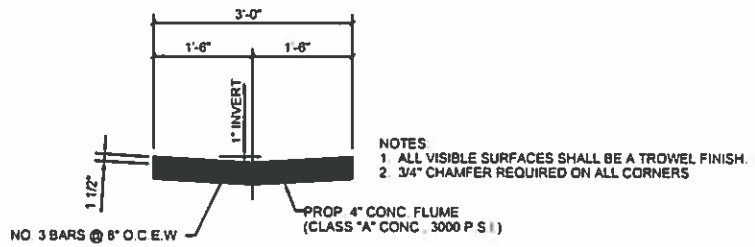
DESIGNED: E.W.D.  
DRAWN: M.K.W. / DBI

DATE: 07-05-18  
REVISION: N/C





### ALLEY / STREET INTERSECTION



### REINFORCED CONCRETE FLUME WITHOUT CURBS

ST-15

STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS

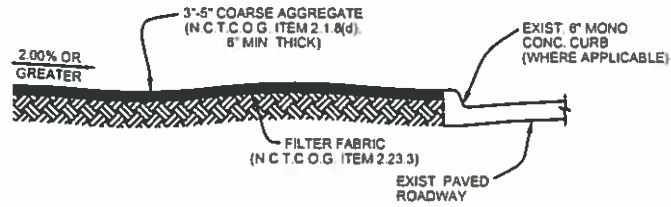


Farmersville

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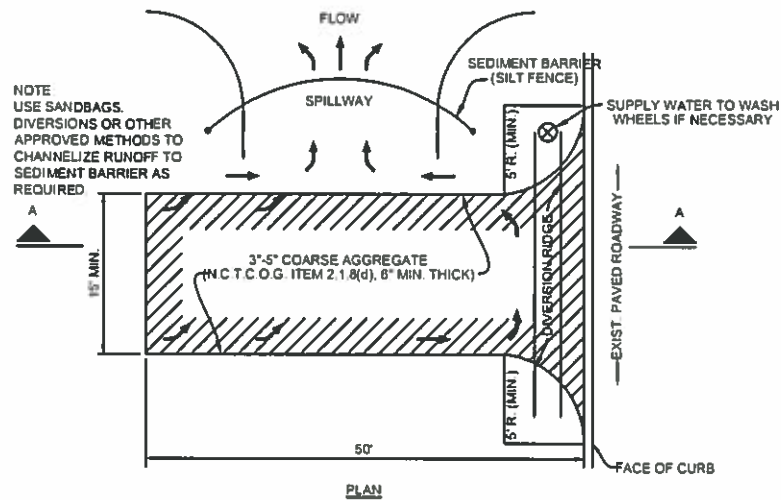
DESIGNED: E.W.D.  
DRAWN: M.K.W. / DBI

DATE: 07-05-16  
REVISION: N/C



### SECTION A-A

NOTE:  
DIVERSION RIDGE REQUIRED  
WHERE GRADE EXCEEDS 2.00%



### FOR EROSION CONTROL

STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS

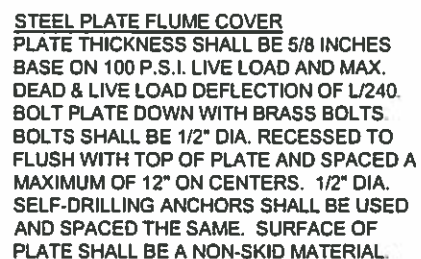


Farmersville

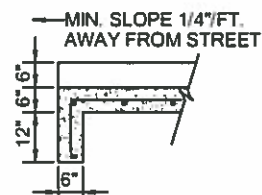
PAVING DETAILS / EROSION

DESIGNED E.W.D.  
DRAWN M.K.W./DBI

DATE 07-05-16  
REVISION N/C



## REINFORCED CONCRETE FLUME WITH CURBS



## SECTION B-B

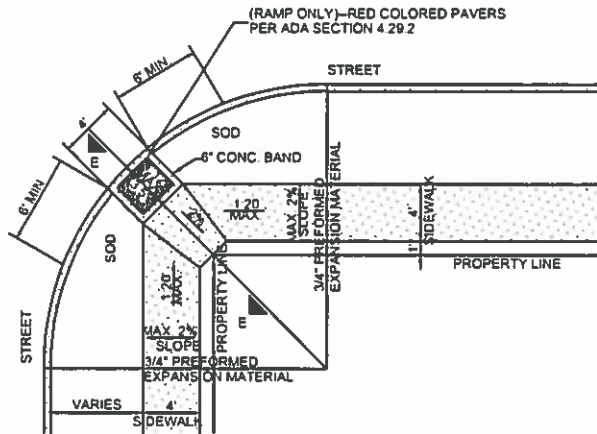


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REVISION: N/C



Farmersville

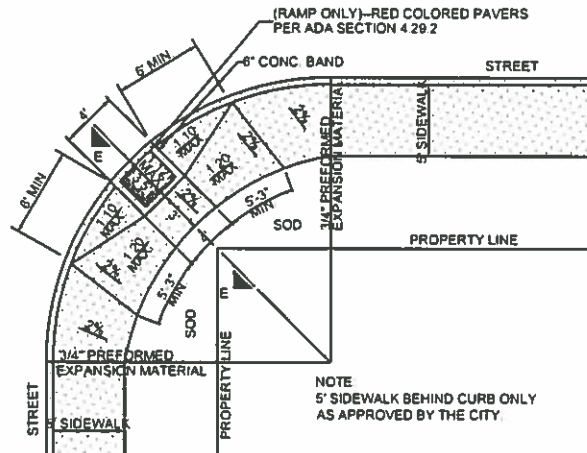
DATE: 07-05-16
REVISION: N/C



NOTE: PAVERS WILL HAVE DETECTABLE WARNING THAT CONSIST OF RAISED TRUNCATED DOMES WITH A DIAMETER OF 0.9 IN. (23MM), A HEIGHT OF NOMINAL 0.2 IN. (5MM) AND A CENTER-TO-CENTER SPACING OF NOMINAL 2.35 IN. (60MM) AND SHALL BE RED IN COLOR

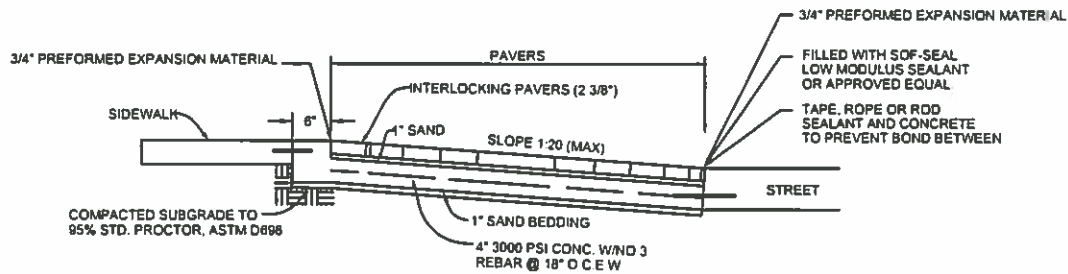
### RAMP FOR 4 FEET SIDEWALK AWAY FROM CURB

NOTE: PAVERS WILL HAVE DETECTABLE WARNING THAT CONSIST OF RAISED TRUNCATED DOMES WITH A DIAMETER OF 0.9 IN. (23MM), A HEIGHT OF NOMINAL 0.2 IN. (5MM) AND A CENTER-TO-CENTER SPACING OF NOMINAL 2.35 IN. (60MM) AND SHALL BE RED IN COLOR



NOTE: 5' SIDEWALK BEHIND CURB ONLY AS APPROVED BY THE CITY

### RAMP FOR 5 FEET SIDEWALK NEXT TO CURB



### SECTION E-E

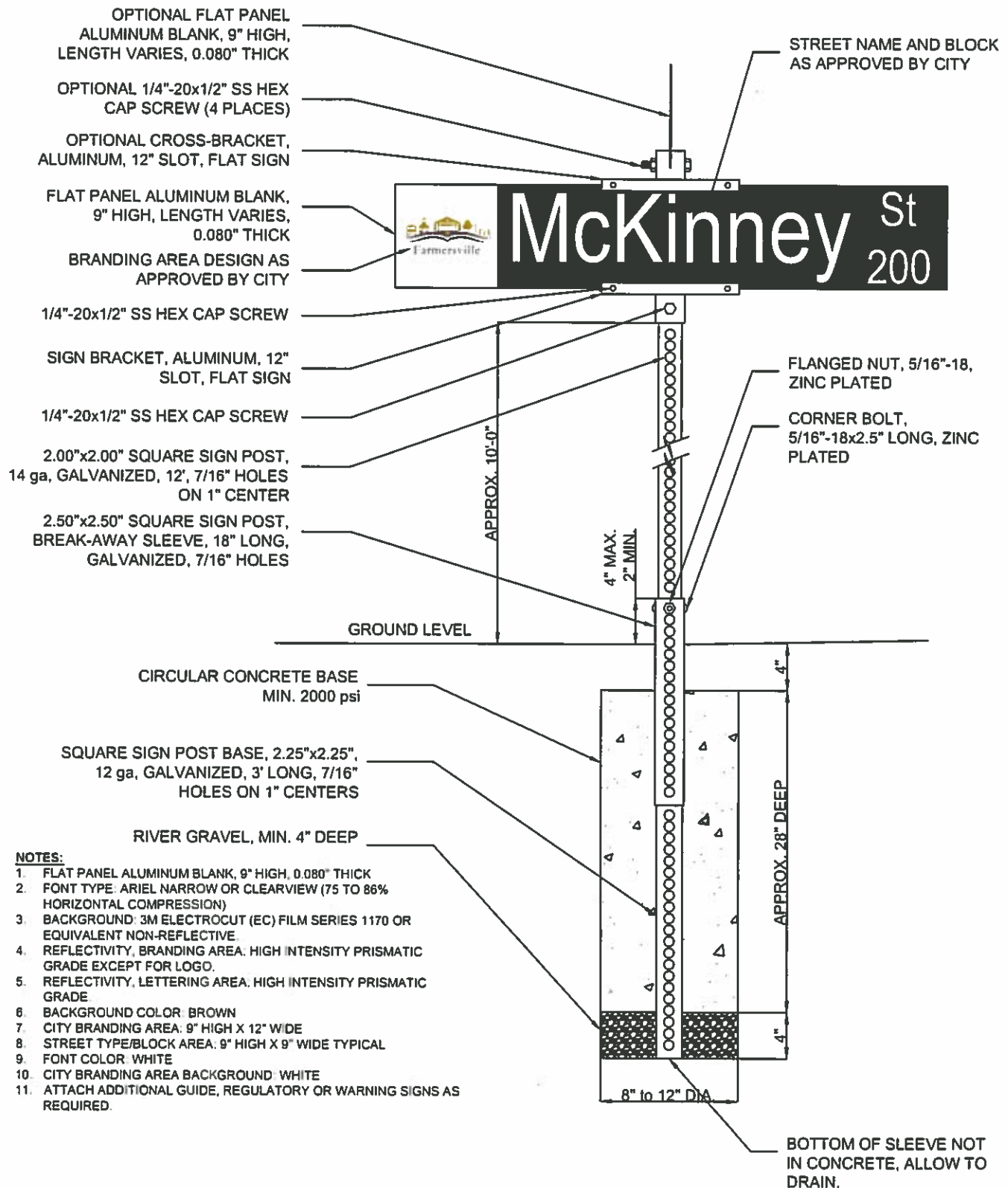
STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS



Farmersville

PAVING SIDEWALKS

DESIGNED: E.W.D. DATE: 07-05-18  
DRAWN: M.K.W. / DBI REVISION: N/C



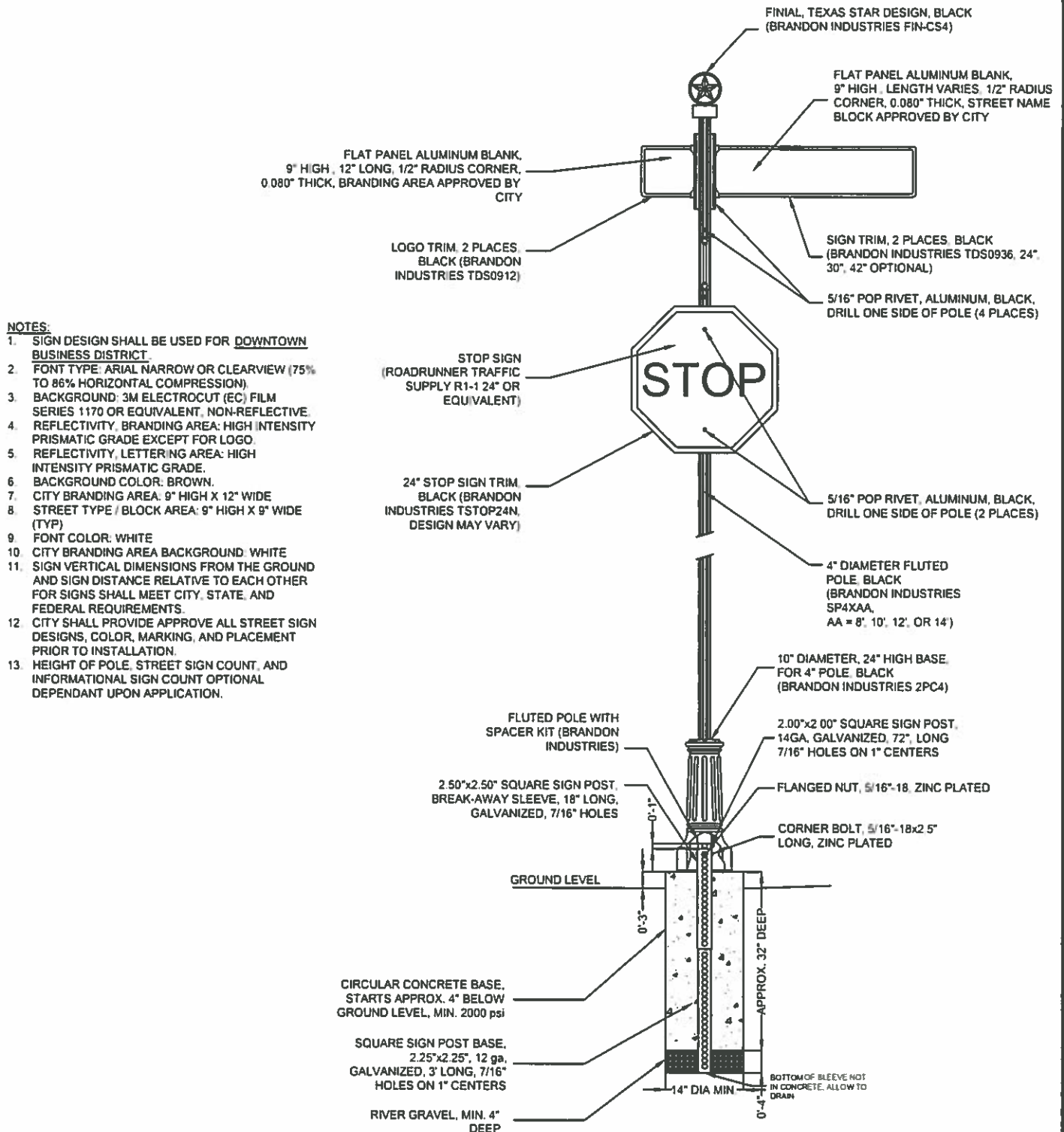
STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS



STANDARD STREET SIGN

DESIGNED: E.W.D.  
DRAWN: M.K.W. / DBI

DATE: 07-05-16  
REVISION: N/C



- NOTES:**
1. SIGN DESIGN SHALL BE USED FOR DOWNTOWN BUSINESS DISTRICT.
  2. FONT TYPE: ARIAL NARROW OR CLEARVIEW (75% TO 86% HORIZONTAL COMPRESSION).
  3. BACKGROUND: 3M ELECTROCUT (EC) FILM SERIES 1170 OR EQUIVALENT, NON-REFLECTIVE.
  4. REFLECTIVITY, BRANDING AREA: HIGH INTENSITY PRISMATIC GRADE EXCEPT FOR LOGO.
  5. REFLECTIVITY, LETTERING AREA: HIGH INTENSITY PRISMATIC GRADE.
  6. BACKGROUND COLOR: BROWN.
  7. CITY BRANDING AREA: 9" HIGH X 12" WIDE
  8. STREET TYPE / BLOCK AREA: 9" HIGH X 9" WIDE (TYP)
  9. FONT COLOR: WHITE
  10. CITY BRANDING AREA BACKGROUND: WHITE
  11. SIGN VERTICAL DIMENSIONS FROM THE GROUND AND SIGN DISTANCE RELATIVE TO EACH OTHER FOR SIGNS SHALL MEET CITY, STATE, AND FEDERAL REQUIREMENTS.
  12. CITY SHALL PROVIDE APPROVE ALL STREET SIGN DESIGNS, COLOR, MARKING, AND PLACEMENT PRIOR TO INSTALLATION.
  13. HEIGHT OF POLE, STREET SIGN COUNT, AND INFORMATIONAL SIGN COUNT OPTIONAL DEPENDANT UPON APPLICATION.

**STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS**

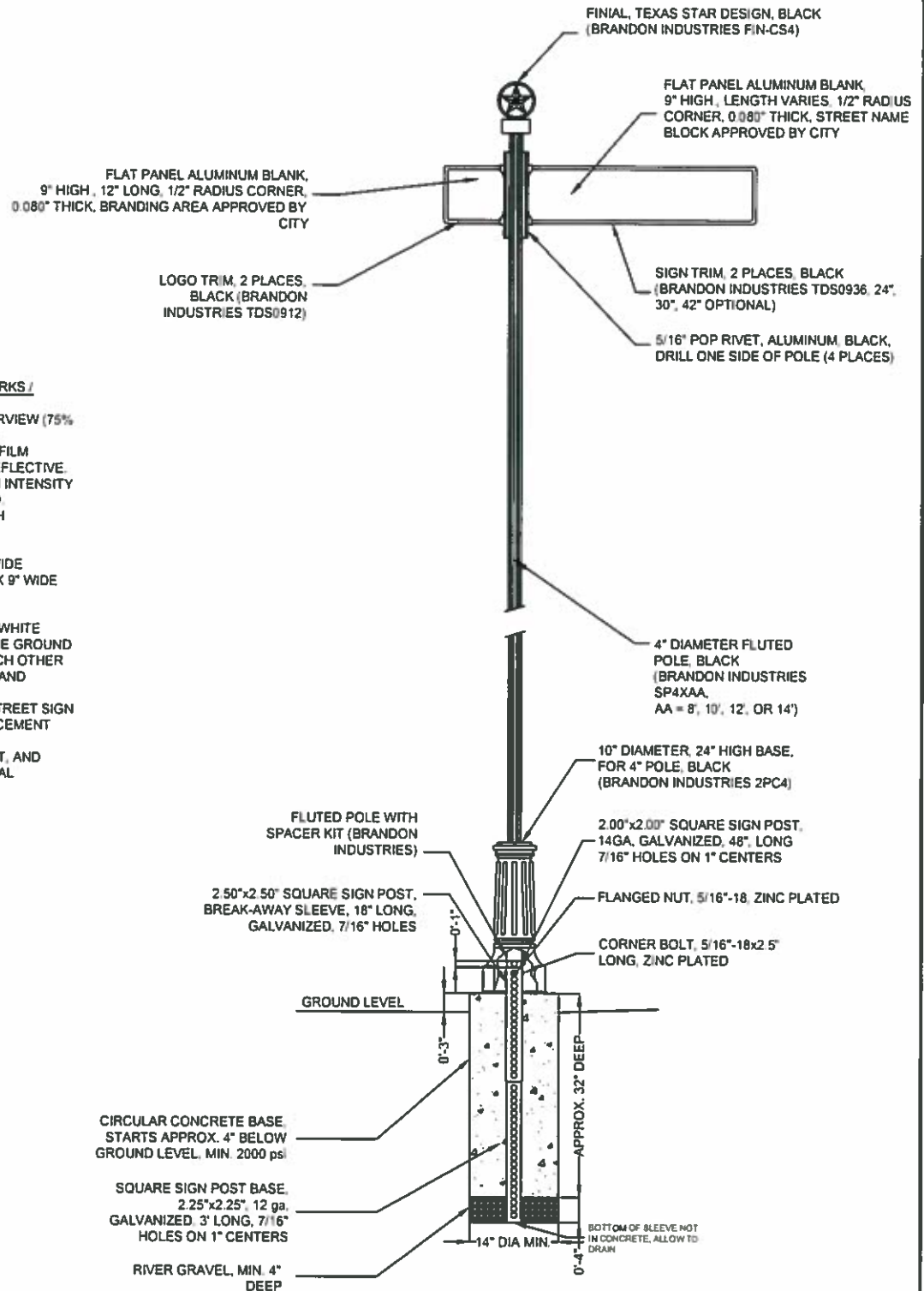


**Farmersville**

**DECORATIVE STREET SIGN**

DESIGNED: E.W.D.  
DRAWN: M.K.W. / DBI

DATE: 07-05-18  
REVISION: N/C



#### NOTES:

1. SIGN DESIGN SHALL BE USED FOR PARKS / STREETS.
2. FONT TYPE: ARIAL NARROW OR CLEARVIEW (75% TO 86% HORIZONTAL COMPRESSION).
3. BACKGROUND: 3M ELECTROCUT (EC) FILM SERIES 1170 OR EQUIVALENT, NON-REFLECTIVE.
4. REFLECTIVITY, BRANDING AREA: HIGH INTENSITY PRISMATIC GRADE EXCEPT FOR LOGO.
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12. CITY SHALL PROVIDE APPROVE ALL STREET SIGN DESIGNS, COLOR, MARKING, AND PLACEMENT PRIOR TO INSTALLATION.
13. HEIGHT OF POLE, STREET SIGN COUNT, AND INFORMATIONAL SIGN COUNT OPTIONAL DEPENDANT UPON APPLICATION.

### STANDARD CONSTRUCTION DETAILS FOR CITY OF FARMERSVILLE COLLIN COUNTY, TEXAS



Farmersville

#### PARKS DECORATIVE STREET SIGN

DESIGNED: E.W.D.  
DRAWN: M.K.W. / D.B.I.

DATE: 07-05-18  
REVISION: N/C



FLAT PANEL ALUMINUM BLANK,  
1/2" RADIUS CORNER, 0.080" THICK,  
SIZE AND DESIGN AS REQUIRED BY CITY

TRIM, BLACK, SIZE AS REQUIRED BY CITY  
(BRANDON INDUSTRIES TSXXXXN)

FINIAL, TEXAS STAR DESIGN, BLACK  
(BRANDON INDUSTRIES FIN-CS4)

5/16" POP RIVET, ALUMINUM, BLACK,  
DRILL ONE SIDE OF POLE (2 PLACES)

4" DIAMETER FLUTED  
POLE, BLACK  
(BRANDON INDUSTRIES  
SP4XAA,  
AA = 8', 10', 12', OR 14')

10" DIAMETER, 24" HIGH BASE,  
FOR 4" POLE, BLACK  
(BRANDON INDUSTRIES 2PC4)

2.00"x2.00" SQUARE SIGN POST,  
14GA, GALVANIZED, 48" LONG,  
7/16" HOLES ON 1" CENTERS

FLANGED NUT, 5/16"-18, ZINC PLATED

CORNER BOLT, 5/16"-18x2 5"  
LONG, ZINC PLATED

FLUTED POLE WITH  
SPACER KIT (BRANDON  
INDUSTRIES)

2.50"x2.50" SQUARE SIGN POST,  
BREAK-AWAY SLEEVE, 18" LONG,  
GALVANIZED, 7/16" HOLES

GROUND LEVEL

CIRCULAR CONCRETE BASE,  
STARTS APPROX. 4" BELOW  
GROUND LEVEL, MIN. 2000 psi

SQUARE SIGN POST BASE,  
2.25"x2.25", 12 ga,  
GALVANIZED, 3' LONG, 7/16"  
HOLES ON 1" CENTERS

RIVER GRAVEL, MIN. 4"  
DEEP

BOTTOM OF BLEEVE NOT  
IN CONCRETE, ALLOW TO  
DRAIN

#### NOTES:

1. SIGN DESIGN SHALL BE USED FOR SMALL FORMAT SIGNS.
2. FONT TYPE: ARIAL NARROW OR CLEARVIEW (75% TO 86% HORIZONTAL COMPRESSION).
3. BACKGROUND: 3M ELECTROCUT (EC) FILM SERIES 1170 OR EQUIVALENT, NON-REFLECTIVE.
4. REFLECTIVITY, BRANDING AREA: HIGH INTENSITY PRISMATIC GRADE EXCEPT FOR LOGO.
5. REFLECTIVITY, LETTERING AREA: HIGH INTENSITY PRISMATIC GRADE.
6. BACKGROUND COLOR: BROWN.
7. FONT COLOR: WHITE
8. SIGN VERTICAL DIMENSIONS FROM THE GROUND AND SIGN DISTANCE RELATIVE TO EACH OTHER FOR SIGNS SHALL MEET CITY, STATE, AND FEDERAL REQUIREMENTS.
9. CITY SHALL PROVIDE APPROVE ALL STREET SIGN DESIGNS, COLOR, MARKING, AND PLACEMENT PRIOR TO INSTALLATION.
10. HEIGHT OF POLE, STREET SIGN COUNT, AND INFORMATIONAL SIGN COUNT OPTIONAL DEPENDANT UPON APPLICATION.

STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS

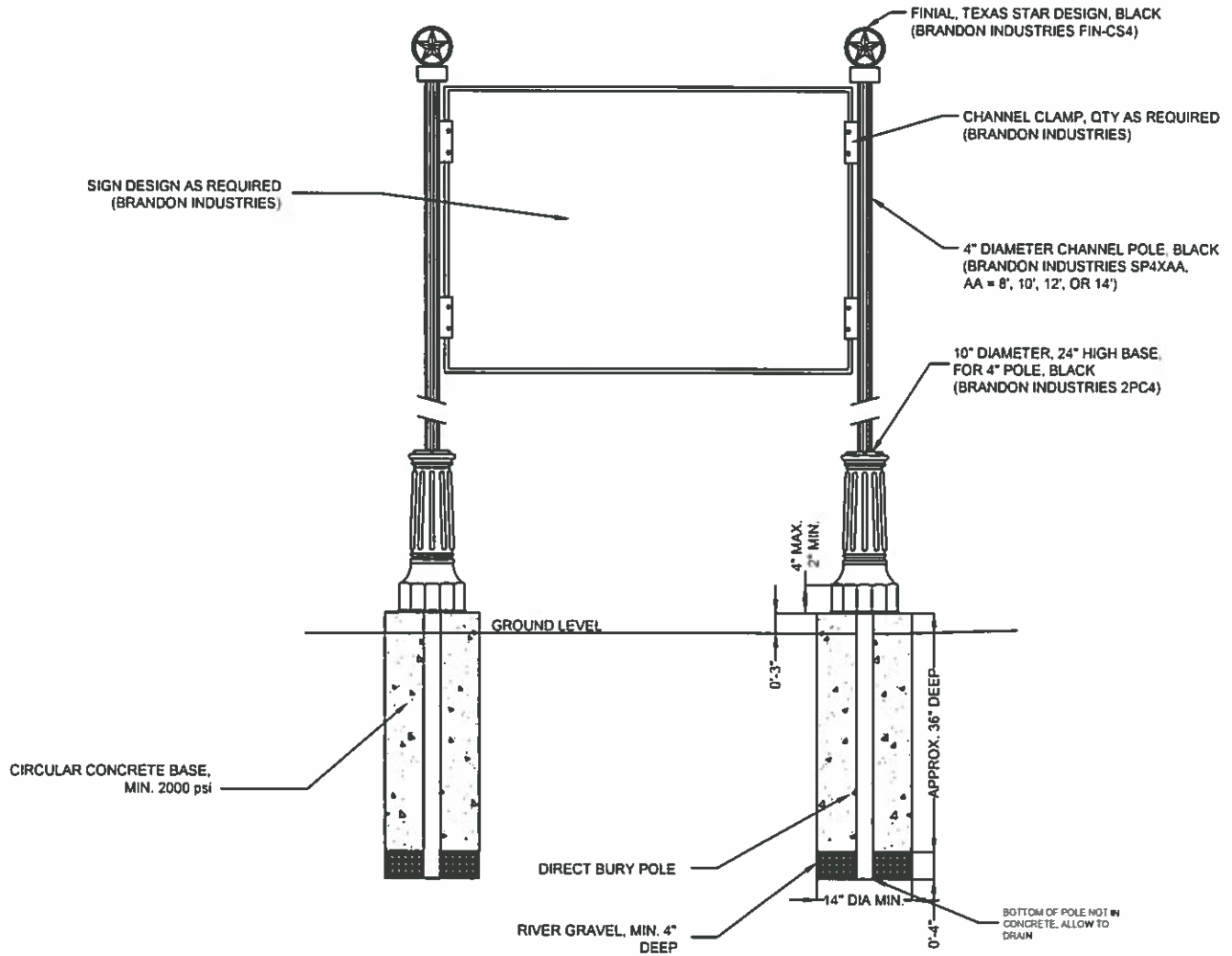


Farmersville

PARKS DECORATIVE SMALL FORMAT SIGN

DESIGNED: E.W.D.  
DRAWN: M.K.W. / DBI

DATE: 07-05-18  
REVISION: N/C



ST-27

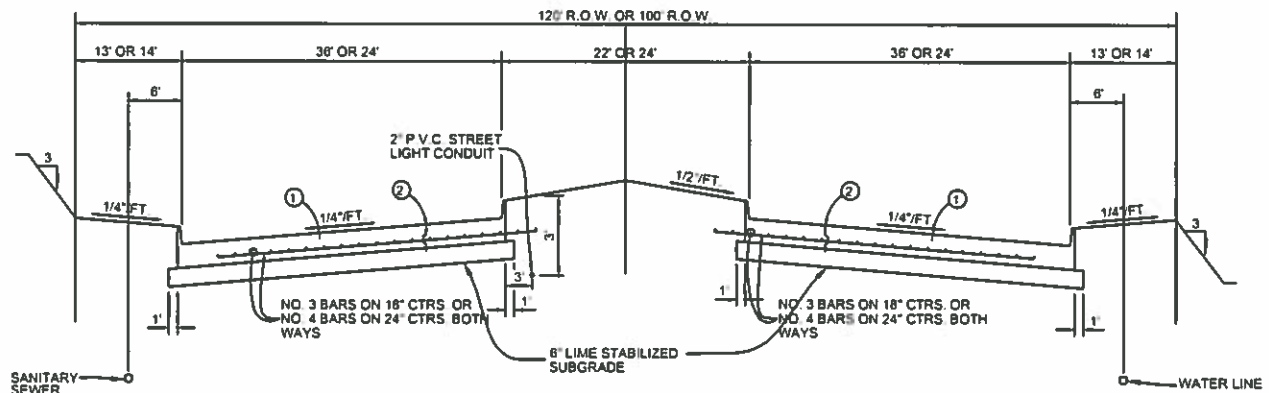
STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS



PARKS DECORATIVE LARGE FORMAT SIGN

DESIGNED: E.W.D.  
DRAWN: M.K.W. / DBI

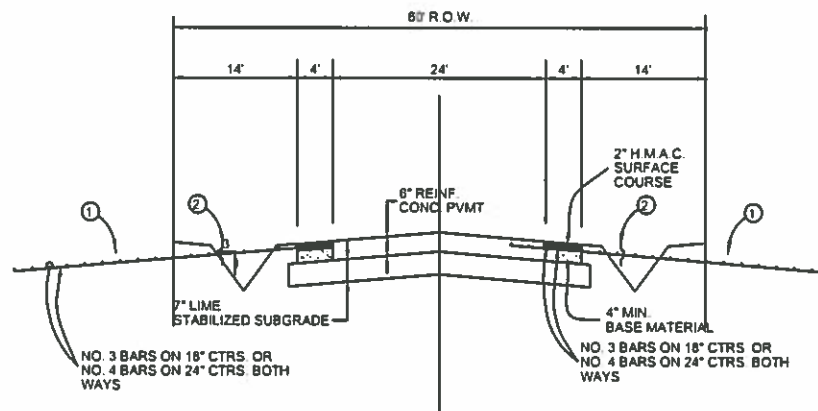
DATE: 07-05-16  
REVISION: N/C



### REGULAR SECTION

TYPE B & TYPE C

NOTE:  
FOR RIGHT-OF-WAYS LESS THAN 17' BEHIND FACE OF CURB, GAS, ELECTRIC,  
CABLE TV, FIBER OPTIC, TELEPHONE AND ALL OTHER FRANCHISE UTILITIES  
ARE LOCATED OUTSIDE THE RIGHT-OF-WAY IN UTILITY EASEMENTS.



### RESIDENTIAL ESTATE SECTION

1. RESIDENTIAL ESTATE SECTION ALLOWED WITH CITY COUNCIL APPROVAL ONLY
2. MIN. LOT SIZE ONE ACRE.
3. DRIVE CULVERTS AND RETURNS TO BE INSTALLED AT TIME OF DEVELOPMENT.

STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS

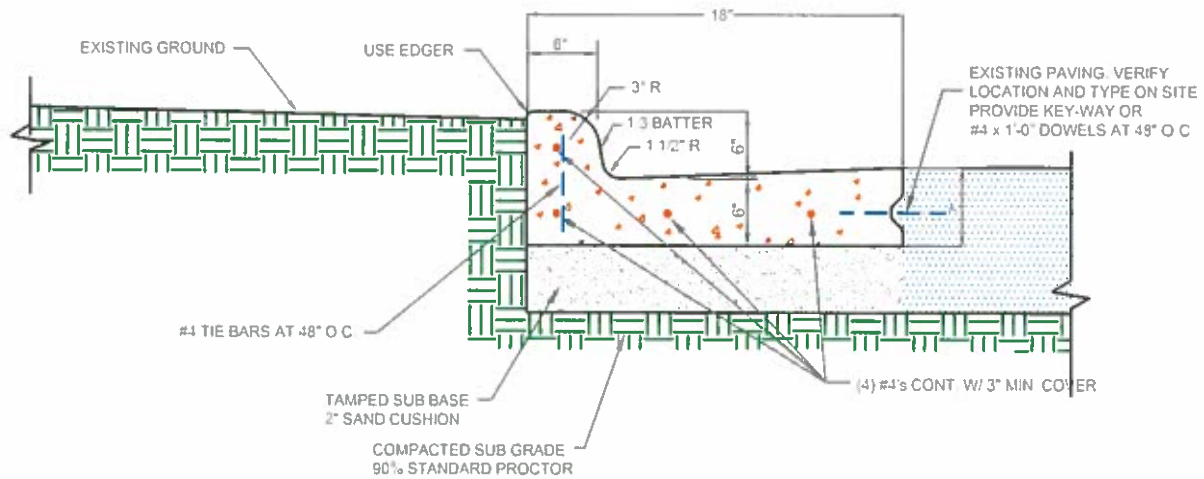


Farmersville

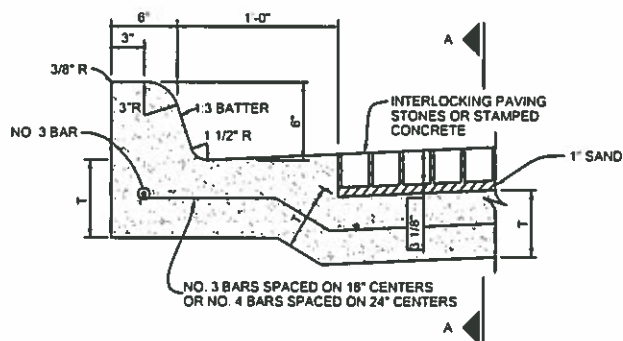
STREET DETAILS

DESIGNED: E.W.D.  
DRAWN: M.K.W. / DBI

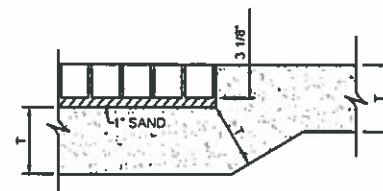
DATE: 07-05-18  
REVISION: N/C



## SEPARATE CURB & GUTTER



## MONOLITHIC CURB & GUTTER



## SECTION A-A

PAVING STONES SHALL BE PER NCTCOG  
ITEMS 2.3.7 AND 5.6 OF SPECIAL PROVISIONS

T = PAVEMENT THICKNESS

STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS

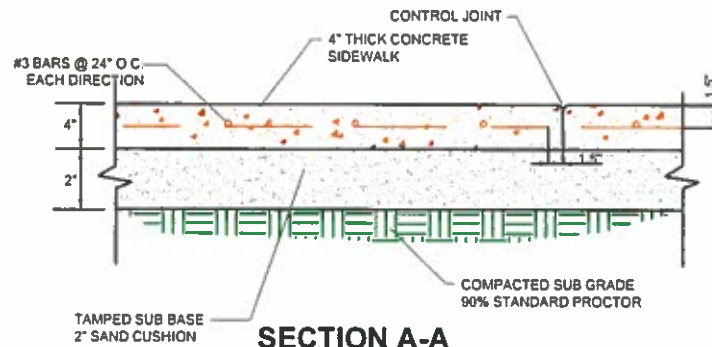


Farmersville

CURB & GUTTER DETAILS

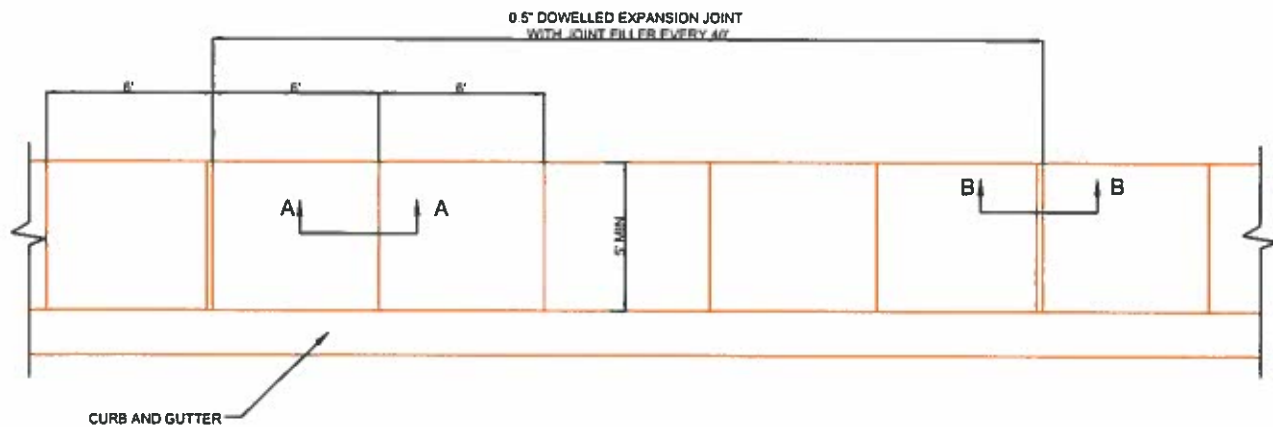
DESIGNED: E.W.D.  
DRAWN: M.K.W. / DBI

DATE: 07-05-16  
REVISION: N/C



### SECTION A-A NOT TO SCALE

NOTE: PROVIDE TOOLED CONTROL JOINTS AT 6' O.C. (25% SLAB THICKNESS) AND ISOLATION JOINTS AT 24' O.C. UNLESS OTHERWISE NOTED



### CONCRETE SIDEWALK/CURB & GUTTER PLAN NOT TO SCALE

ST-30

STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS

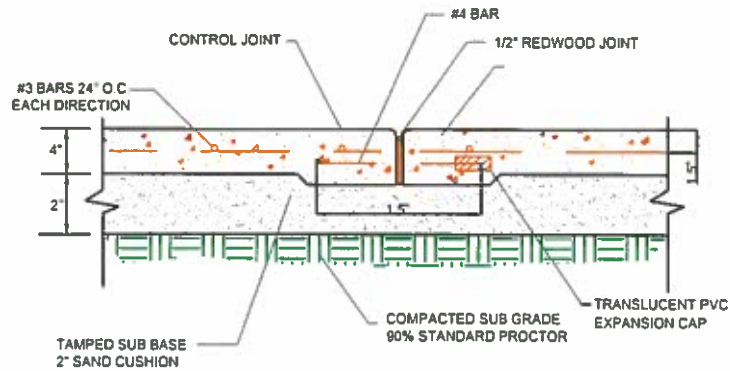


Farmersville

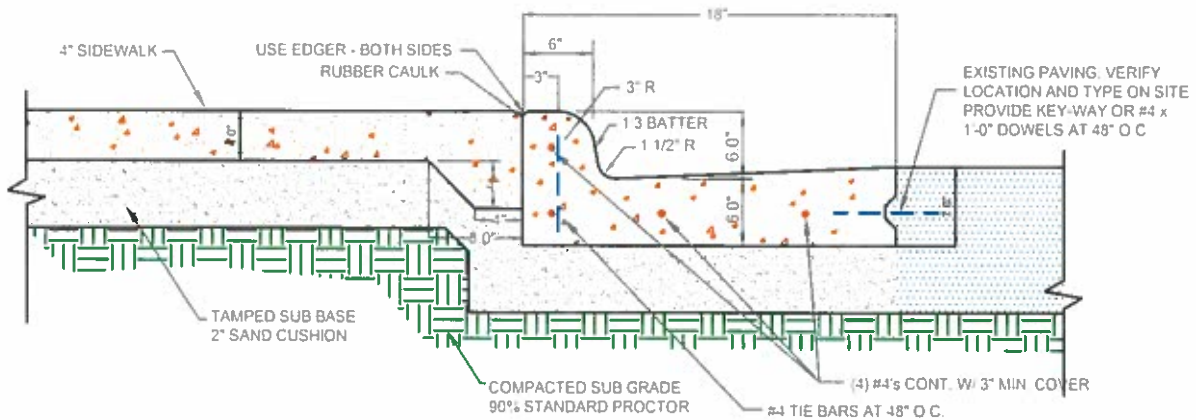
SIDEWALK, CURB & GUTTER DETAILS-1

DESIGNED: E.W.D.  
DRAWN: M.K.W. / DBI

DATE: 07-05-16  
REVISION: N/C



**SECTION B-B**  
NOT TO SCALE



**SECTION C-C**  
NOT TO SCALE

NOTE: PROVIDE TOOLED CONTROL  
JOINTS AT 10' O C (25% SLAB THICKNESS)

ST-31

STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS



Farmersville

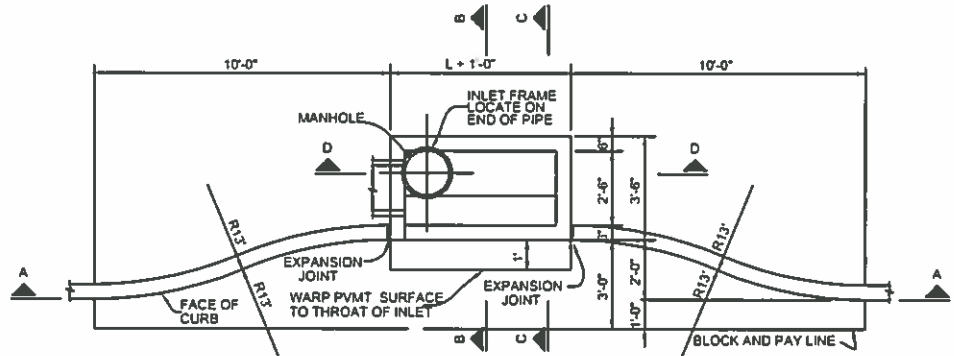
SIDEWALK, CURB & GUTTER DETAILS-2

DESIGNED: E.W.D.  
DRAWN: M.K.W. / DB

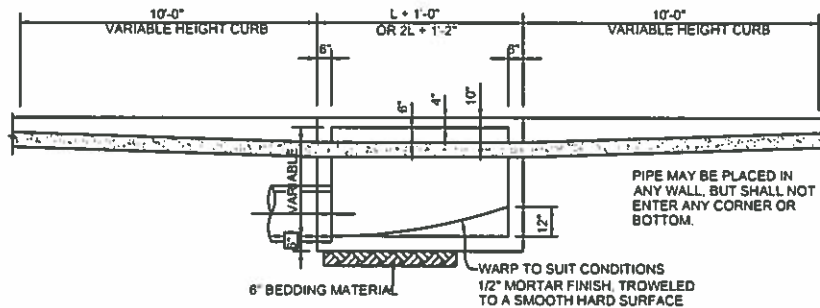
DATE: 07-05-16  
REVISION: N/C

NOTES:

- 1 THE FLOOR OF THE EXCAVATION FOR INLET BOX MUST PROVIDE A FIRM, LEVEL BED FOR THE BASE SECTION TO REST UPON.
- 2 A MINIMUM OF 6 INCHES OF 1" DIAMETER (MAXIMUM) ROCK OR GRAVEL SHALL BE USED TO PREPARE THE BEDDING TO FINAL GRADE OR LIEU OF THIS, AT LEAST 8 INCHES OF 2-SACK CEMENT STABILIZED SAND SHALL BE USED TO PREPARE THE BEDDING TO GRADE. CEMENT STABILIZED-SAND SHALL BE ALLOWED TO SET BY KEEPING HOLE PUMPED DRY.
- 3 AFTER CASING HAS BEEN INSTALLED ON THE PROPER BEDDING, THE BACKFILL MATERIAL, WHICH IS FREE FLOWING AND CLEAR OF ROCKS, IN EXCESS OF 4" DIAMETER AND OTHER LUMPS WHICH WOULD PROHIBIT PROPER COMPACTION, SHALL BE COMMENCED IN LIFTS OF NO MORE THAN 18" THE MATERIAL USED FOR BACKFILL SHOULD BE A TYPE SUITABLE TO OBTAIN THE DENSITY REQUIREMENTS FOR THE SPECIFIC JOB.

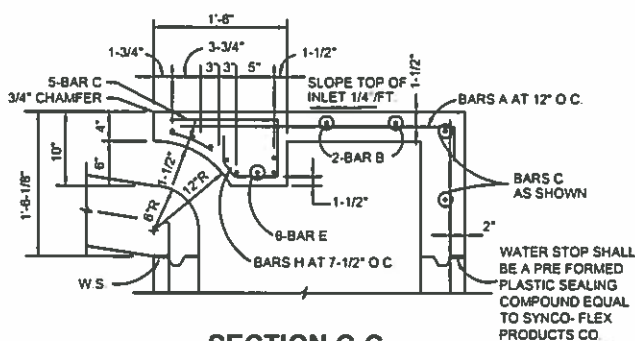


**PLAN - RECESSED INLET**

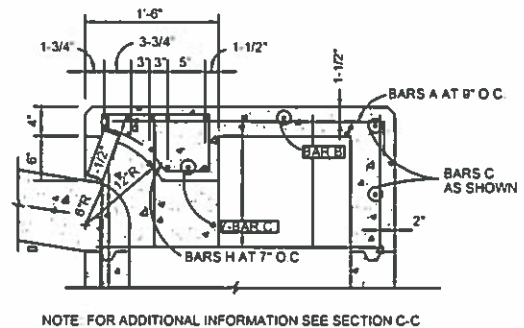


**SECTION A-A-RECESSED AND STANDARD INLETS**

4, 6, 8, AND 10 FOOT INLETS



**SECTION C-C**



**SECTION E-E**

STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS

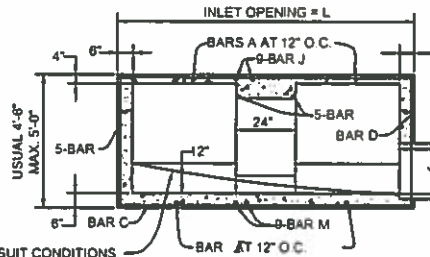


STORM WATER RECESSED INLET

DESIGNED: E.W.D. DATE: 07-05-16  
DRAWN: M.K.W. / DBI REVISION: N/C

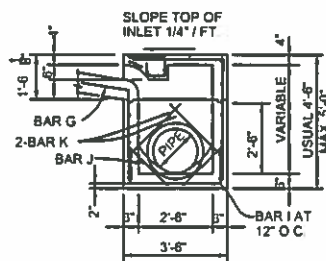
# NOTES

1. THE FLOOR OF THE EXCAVATION FOR INLET BOX MUST PROVIDE A FIRM, LEVEL BED FOR THE BASE SECTION TO REST UPON
2. A MINIMUM OF 6 INCHES OF 1" DIAMETER (MAXIMUM) ROCK OR GRAVEL SHALL BE USED TO PREPARE THE BEDDING TO FINAL GRADE OR LIEU OF THIS, AT LEAST 6 INCHES OF 2-SACK CEMENT STABILIZED SAND SHALL BE USED TO PREPARE THE BEDDING TO GRADE. CEMENT STABILIZED-SAND SHALL BE ALLOWED TO SET BY KEEPING HOLE PUMPED DRY.
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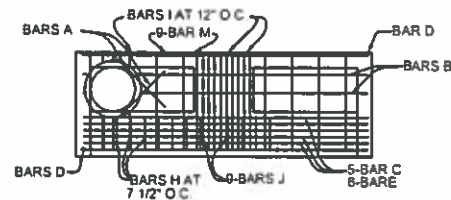


WARP TO SUIT CONDITIONS,  
1/2" MORTAR FINISH,  
TROWELED TO A SMOOTH  
FINISH

## SECTION D-D - STANDARD AND RECESSED INLETS

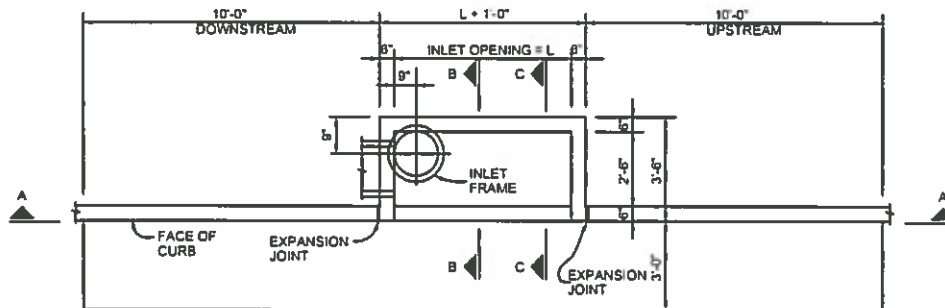


### SECTION B-B



### PLAN - STANDARD INLET

NOTE  
PIPES SHALL CONNECT TO  
THE ENDS OR SIDES OF  
INLET'S CONNECTION SHALL  
NOT BE MADE AT CORNER  
OR BOTTOM.



### PLAN - STANDARD INLET

4, 6, 8 AND 10 FOOT INLETS

STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS



STORM WATER STANDARD INLET

DESIGNED E.W.D.  
DRAWN M.K.W / DBI

DATE 07-05-16  
REVISION N/C

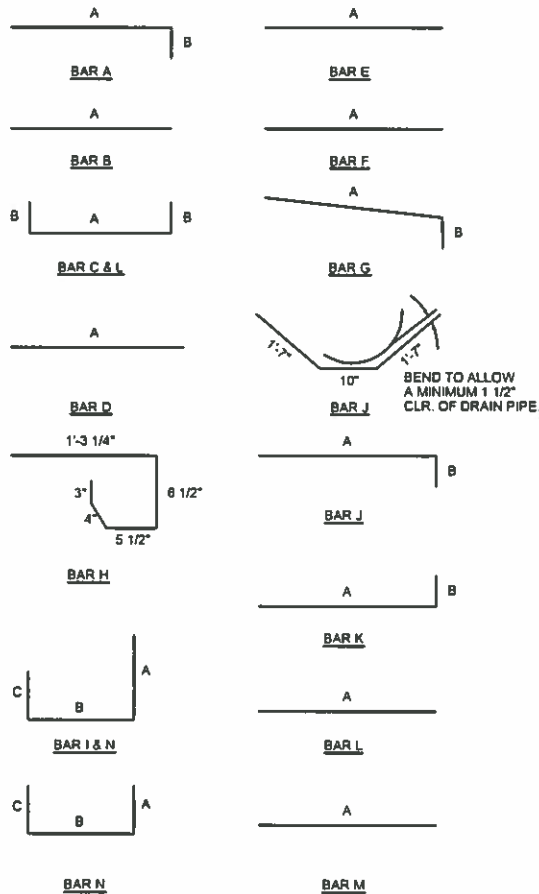


## RECESSED AND STANDARD INLETS REINFORCING STEEL SCHEDULE

DIMENSIONS SHOWN ARE FOR MAXIMUM SIZE INLETS

INLET LENGTH	BAR TYPE	BAR DIA. (1/8 IN.)	NO. REQ'D	BAR DIMENSIONS		
				A	B	C
4	A	3	6	3'-2"	0'-3"	-
	B	3	1	2'-10"	-	-
	C	4	15	4'-8"	0'-6"	-
	D	4	5	4'-8"	-	-
	F	4	1	3'-2"	-	-
	G	3	5	2'-0"	1'-3"	-
	H	3	6	-	-	-
	N	3	3	3'-2"	3'-2"	3'-2"
6	A	3	9	3'-2"	0'-3"	-
	B	3	1	4'-10"	-	-
	C	4	15	6'-8"	0'-6"	-
	D	4	5	4'-8"	-	-
	F	4	1	3'-2"	-	-
	G	3	5	2'-0"	1'-3"	-
	H	3	9	-	-	-
	N	3	3	3'-2"	3'-2"	3'-2"
8	A	3	12	3'-2"	0'-3"	-
	B	4	1	6'-10"	-	-
	C	4	15	8'-8"	0'-6"	-
	D	4	5	4'-8"	-	-
	F	4	1	3'-2"	-	-
	G	3	5	2'-0"	1'-3"	-
	H	3	12	-	-	-
	N	3	3	3'-2"	3'-2"	3'-2"
10	A	3	13	3'-2"	0'-3"	-
	B	3	2	8'-10"	-	-
	C	4	16	10'-8"	0'-6"	-
	D	4	4	4'-8"	-	-
	E	5	6	10'-8"	-	-
	G	3	5	2'-0"	1'-3"	-
	H	3	14	-	-	-
	I	4	8	4'-8"	3'-2"	3'-2"
	L	4	5	4'-3"	-	-

\* SEE DIAGRAM FOR DIMENSIONS.  
4', 6', 8' AND 10' INLETS



**BAR DIAGRAMS**

STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS

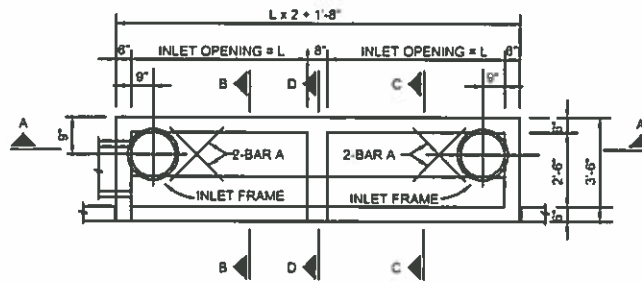


STORM WATER STANDARD & RECESSED INLET

DESIGNED: E.W.D.  
DRAWN: M.K.V. / DBI

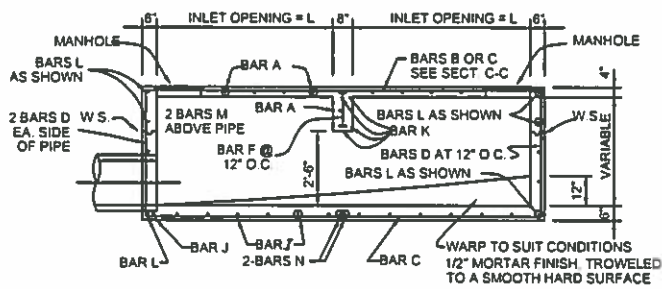
DATE: 07-05-16  
REVISION: N/C

NOTE:  
REINFORCING SHOWN IS  
ADDITIONAL FOR SPECIAL  
CONDITION. FOR REMAINDER  
OF REINFORCEMENT, SEE  
SECTIONS.



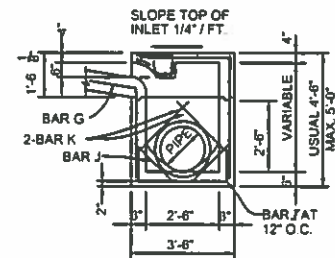
## PLAN - DOUBLE INLETS

20 FOOT INLETS

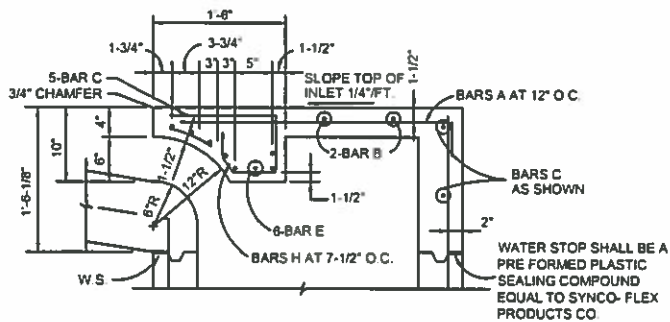


## SECTION A-A

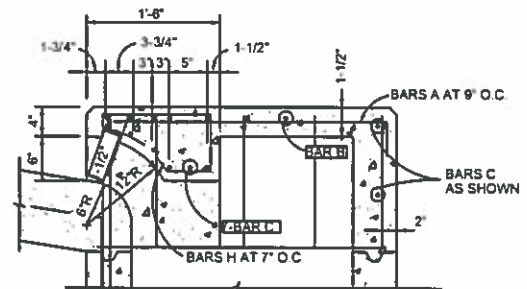
12, 14, 16 AND 20 FOOT INLETS



## SECTION B-B



## SECTION C-C



## SECTION D-D

STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS



Farmersville

STORM WATER DOUBLE INLET

DESIGNED: E.W.D.  
DRAWN: M.K.W. / DBI

DATE: 07-05-16  
REVISION: N/C

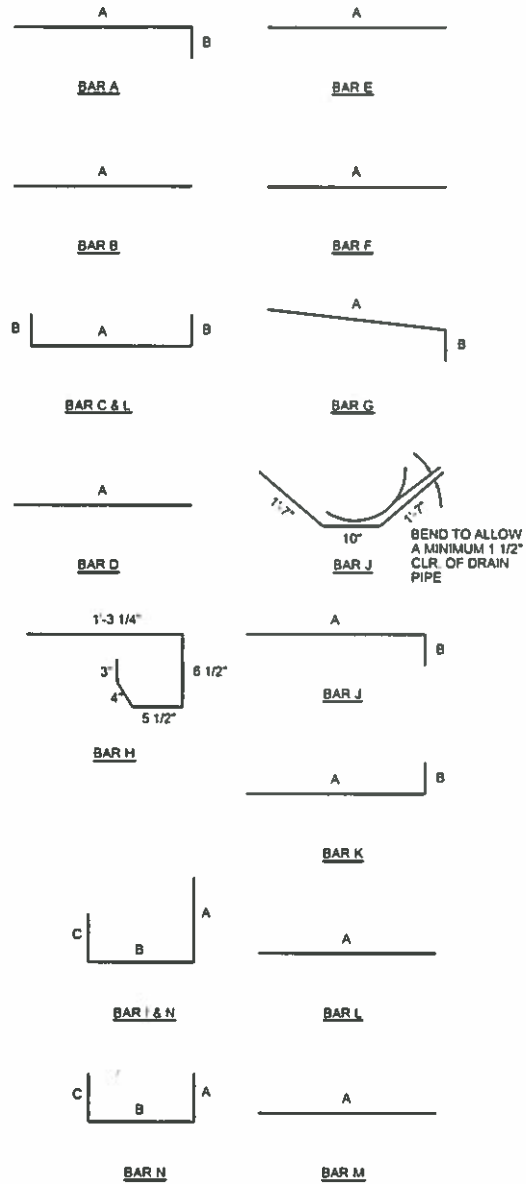
## DOUBLE INLETS

DIMENSIONS SHOWN ARE FOR MAXIMUM SIZE INLETS

INLET LENGTH	BAR TYPE	BAR DIA. (1/8 IN.)	NO. REOD	BAR DIMENSIONS		
				A	B	C
6 FT	A	3	15	3'-2"	0'-6"	-
	B	3	2	11'-6"	-	-
	C	4	16	13'-4"	0'-6"	-
	D	4	9	4'-8"	-	-
	E	5	6	13'-4"	-	-
	F	4	5	1'-2"	-	-
	G	3	12	2'-0"	1'-3"	-
	H	3	26	-	-	-
	I	4	12	4'-8"	3'-2"	3'-2"
	J	5	1	-	-	-
	K	5	6	3'-2"	0'-6"	-
	L	4	11	3'-2"	0'-6"	-
	M	4	2	3'-0"	-	-
	N	4	2	4'-8"	3'-2"	4'-8"
7 FT	A	3	17	3'-2"	0'-6"	-
	B	3	2	13'-6"	-	-
	C	4	18	15'-4"	0'-3"	-
	D	4	9	4'-8"	-	-
	E	5	6	15'-4"	-	-
	F	4	5	1'-2"	-	-
	G	3	15	2'-0"	1'-3"	-
	H	3	32	-	-	-
	I	4	14	4'-8"	3'-2"	3'-2"
	J	5	1	-	-	-
	K	5	6	3'-2"	0'-6"	-
	L	4	11	3'-2"	0'-6"	-
	M	4	2	3'-0"	-	-
	N	4	2	4'-8"	3'-2"	4'-8"
8 FT	A	3	19	3'-2"	0'-6"	-
	B	3	2	15'-6"	-	-
	C	4	18	17'-4"	0'-6"	-
	D	4	9	4'-8"	-	-
	E	5	6	17'-4"	-	-
	F	4	5	1'-2"	-	-
	G	3	12	2'-0"	1'-3"	-
	H	3	26	-	-	-
	I	4	16	4'-8"	3'-2"	3'-2"
	J	5	1	-	-	-
	K	5	6	3'-2"	0'-6"	-
	L	4	11	3'-2"	0'-6"	-
	M	4	2	3'-0"	-	-
	N	4	2	4'-8"	3'-2"	4'-8"
10 FT	A	3	23	3'-2"	0'-6"	-
	B	3	2	19'-6"	-	-
	C	4	18	21'-4"	0'-6"	-
	D	4	9	4'-8"	-	-
	E	5	6	21'-4"	-	-
	F	4	5	1'-2"	-	-
	G	3	15	2'-0"	1'-3"	-
	H	3	32	-	-	-
	I	4	20	4'-8"	3'-2"	3'-2"
	J	5	1	-	-	-
	K	5	6	3'-2"	0'-6"	-
	L	4	11	3'-2"	0'-6"	-
	M	4	2	3'-0"	-	-
	N	4	2	4'-8"	3'-2"	4'-8"

\* SEE DIAGRAM FOR DIMENSIONS.

\*\* FIELD CUT AS REQUIRED TO ACCOMMODATE DRAIN PIPE  
16" AND 20" INLETS



△ BEND TO ALLOW A MINIMUM 1 1/2" CLR. OF DRAIN PIPE

\* SEE DIAGRAMS FOR DIMENSIONS

\*\* FIELD CUT AS REQUIRED TO ACCOMMODATE DRAIN PIPE

## BAR BENDING DIAGRAMS

## REINFORCING STEEL SCHEDULE

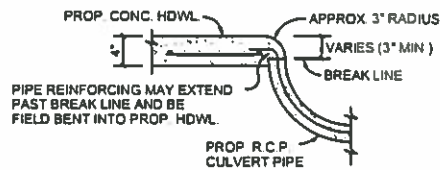
STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS



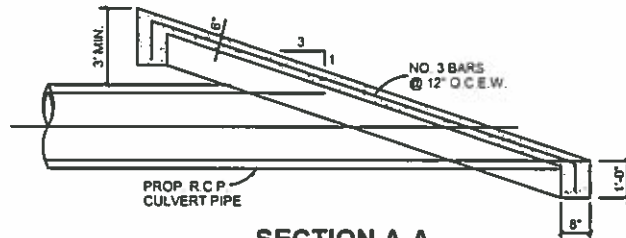
STORM WATER DOUBLE INLET

DESIGNED: E.W.D.  
DRAWN: M.K.W. / DBI

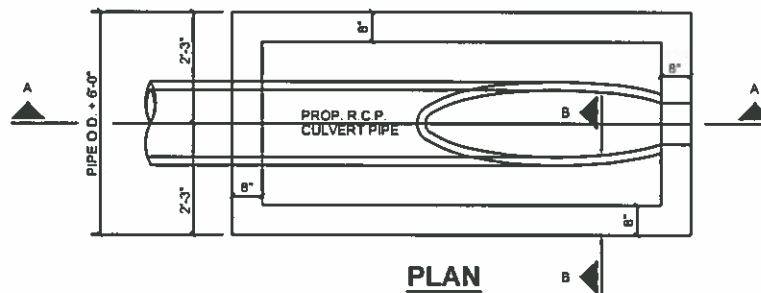
DATE: 07-05-16  
REVISION: N/C



**SECTION B-B**



**SECTION A-A**



**SLOPED CONCRETE HEADWALL**

90-MS

STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS

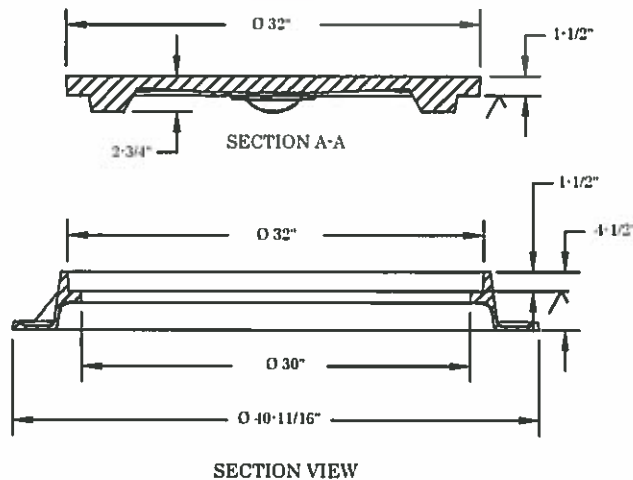
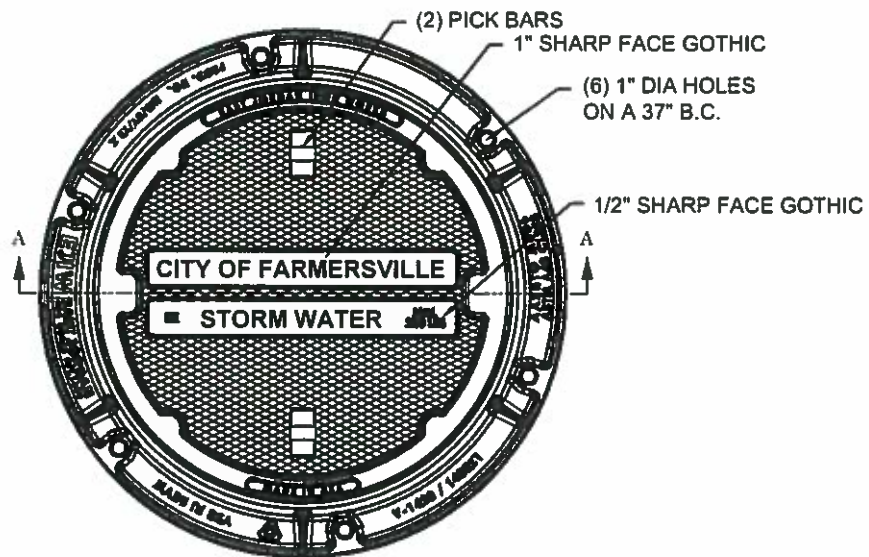


Farmersville

STORM WATER SLOPED CONCRETE HEADWALL

DESIGNED: E.W.D.  
DRAWN: M.K.W. / DBI

DATE: 07-05-16  
REVISION: N/C



### STANDARD MANHOLE RING AND COVER

WITH PICK SLOTS

BASS AND HAYS FOUNDRY, INC.  
MANHOLE V-1420D-1480

STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS



STORM WATER MANHOLE RING & COVER

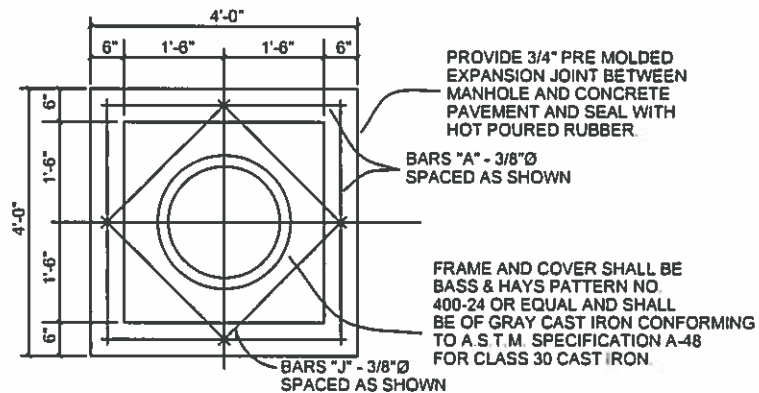
DESIGNED: E.W.D.  
DRAWN: M.K.W. / DBI

DATE: 07-05-18  
REVISION: N/C

SW-07

#### STORM WATER MANHOLE NOTES:

1. PRECAST MANHOLE RISERS SHALL BE USED UNLESS SPECIAL PERMISSION IS GRANTED BY THE CITY FOR CAST-IN-PLACE RISERS.
2. PRECAST MANHOLE RISERS SHALL BE CLASS III R.C.P. FOR ALL MANHOLES UNDER 25 FT. DEEP AND CLASS IV R.C.P. FOR MANHOLES OVER 25 FT. DEEP.
3. MANHOLE BASE MAY BE PRECAST FOR PIPES LESS THAN 30" AND MAY BE PRECAST FOR PIPES 30" AND LARGER WITH PERMISSION GRANTED BY THE CITY.



#### TOP PLAN TYPE A & TYPE B STORM WATER MANHOLE

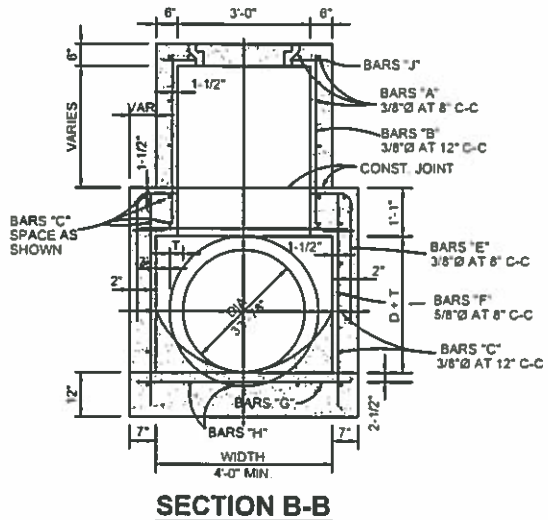
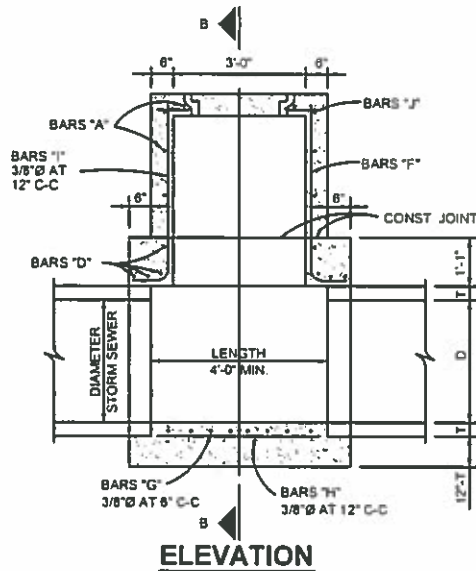
STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS



STORM WATER MANHOLE

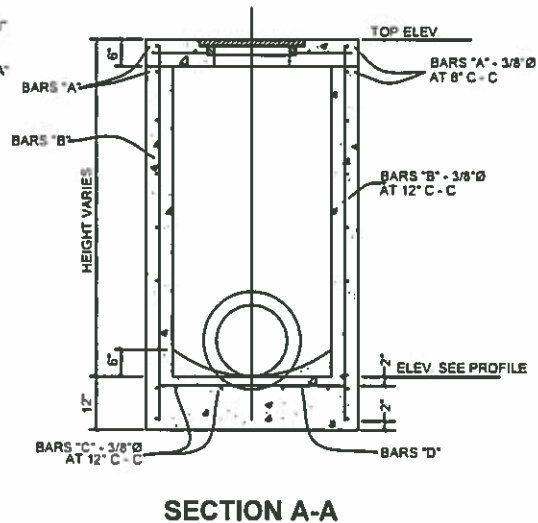
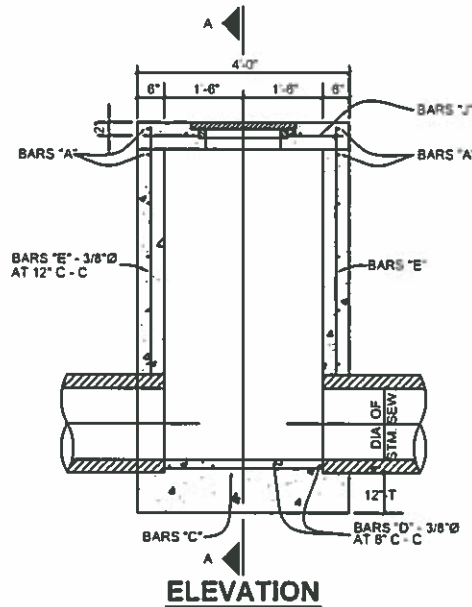
DESIGNED: E.W.D.  
DRAWN: M.K.W. / DBI

DATE: 07-05-18  
REVISION: N/C



### TYPE B STORM WATER MANHOLE

MAX. PIPE SIZE 78"



### STORM WATER TYPE A MANHOLE

MAX. PIPE SIZE 30"

STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS

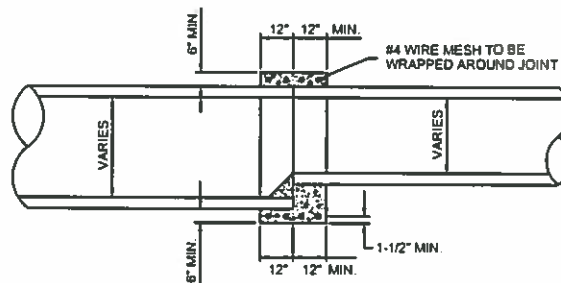


Farmersville

STORM WATER MANHOLE

DESIGNED E.W.D.  
DRAWN M.K.W. / DBI

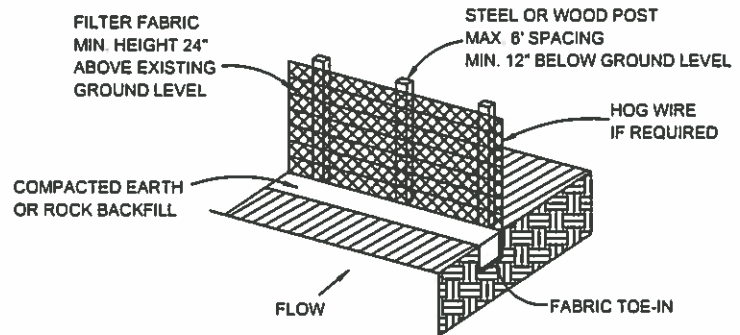
DATE 07-05-16  
REVISION: N/C



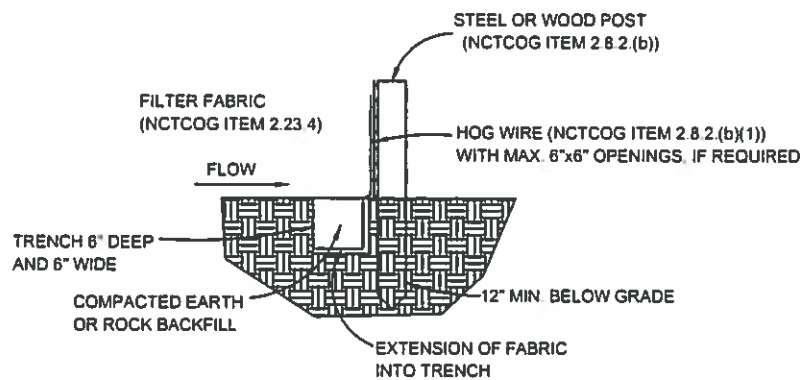


**NOTES:**

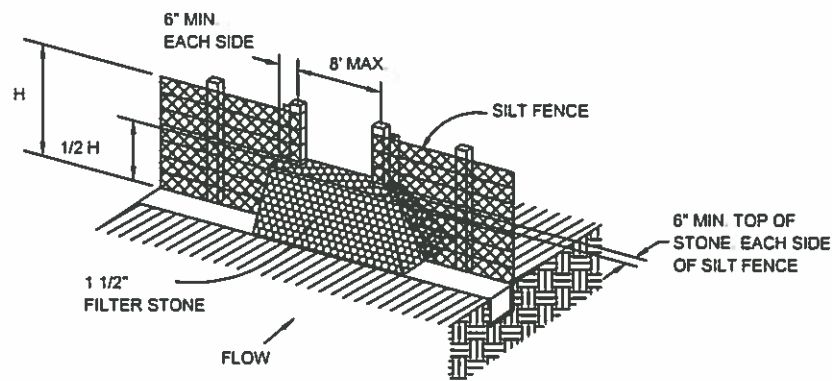
- 1) THE CONTRACTOR SHALL INSPECT SILT FENCE WEEKLY AND AFTER MAJOR RAIN EVENTS TO ENSURE THAT THE DEVICE IS FUNCTIONING PROPERLY AND MAINTAIN IN ACCORDANCE WITH NCTCOG ITEM 3.12.
- 2) THE CONTRACTOR SHALL REMOVE SEDIMENT FROM BEHIND FENCE WHEN THE DEPTH OF SEDIMENT HAS BUILT UP TO ONE-THIRD THE HEIGHT OF THE FENCE ABOVE GRADE.
- 3) THE CONTRACTOR SHALL INSPECT THE BASE OF THE FENCE TO ENSURE THAT NO GAPS HAVE DEVELOPED AND RE-TRENCH AS NECESSARY.
- 4) THE CONTRACTOR SHALL INSPECT FENCE POSTS TO ENSURE THAT THEY ARE PROPERLY SUPPORTING THE FENCE. IF NECESSARY, THE CONTRACTOR SHALL RESET AND ADD POSTS.
- 5) IF FILTER FABRIC IS RIPPED, DAMAGED OR DETERIORATED, THE CONTRACTOR SHALL REPLACE IT IN ACCORDANCE WITH THE ORIGINAL SPECIFICATIONS AND DETAILS. (MAINTENANCE OF THE SILT FENCE SHALL BE AT THE CONTRACTORS OWN EXPENSE)



**ISOMETRIC VIEW**



**SECTION VIEW**



**STONE OVERFLOW STRUCTURE**

LOCATION AS CALLED FOR IN PLANS

**EROSION CONTROL**

STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS



Farmersville

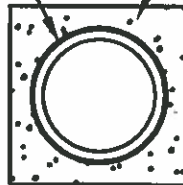
STORM WATER EROSION CONTROL

DESIGNED E.W.D.  
DRAWN M.K.W. / DBI

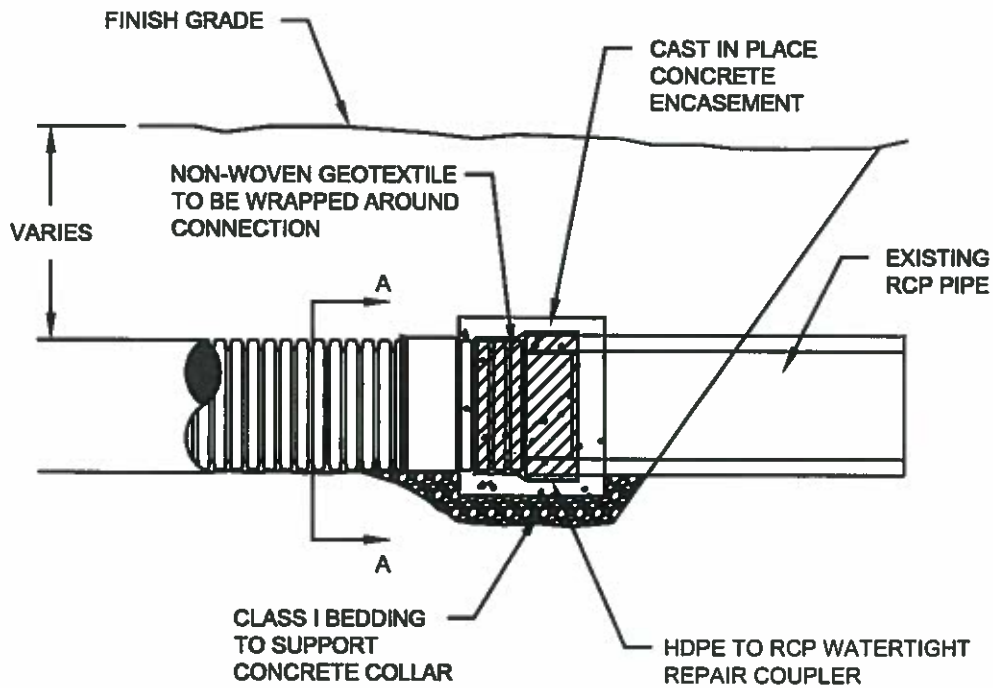
DATE: 07-05-16  
REVISION: NC

NON-WOVEN GEOTEXTILE TO  
BE WRAPPED AROUND  
CONNECTION

CAST IN PLACE  
CONCRETE  
ENCASEMENT



SECTION "A-A"



**HDPE TO RCP CONNECTION**

NOTE:

1. CONNECTION & PIPE TO BE BACKFILLED PER  
ASTM D2321.

STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS



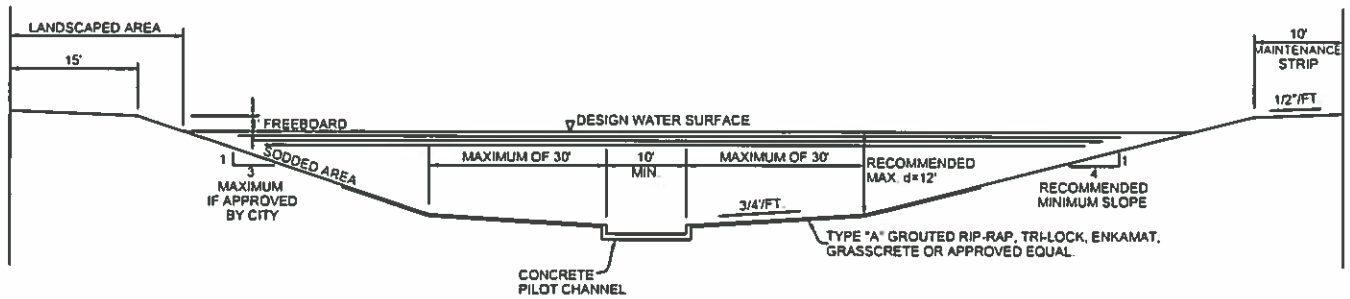
Farmersville

**HDPE TO RCP CONNECTION**

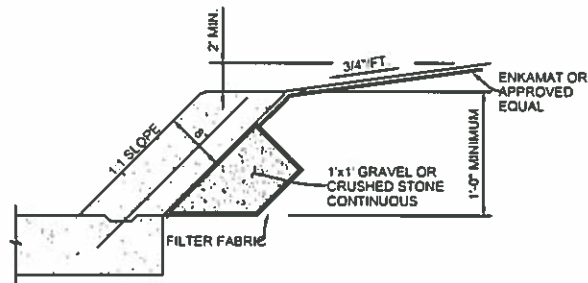
DESIGNED E.W.D.  
DRAWN M.K.W. / DBI

DATE 07-05-16  
REVISION N/C

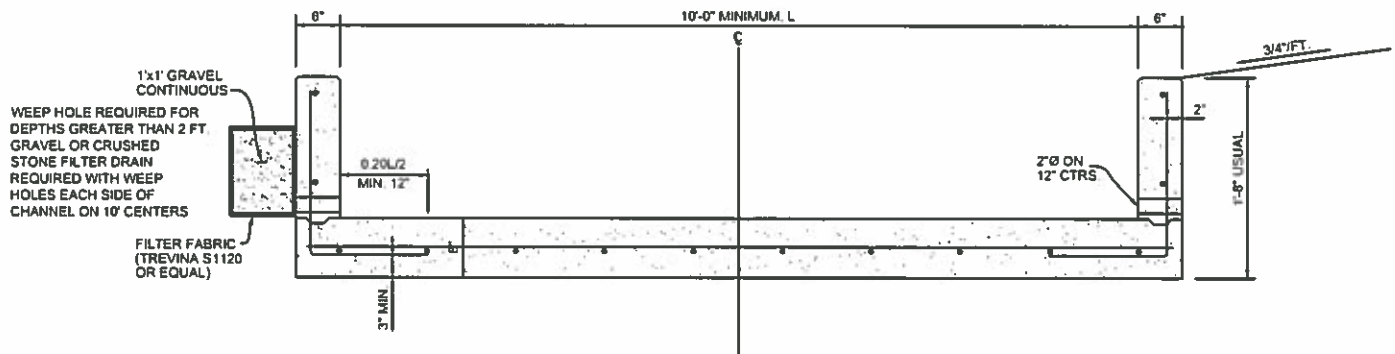
SW-12



**TYPICAL CHANNEL WITH REINFORCED CONCRETE LINED PILOT CHANNEL**



**OPTIONAL (SLOPED WALL)**



**REINFORCED CONCRETE PILOT CHANNEL (VERTICAL WALL)**

**GENERAL NOTES FOR LINED CHANNELS**

1. CONSTRUCTION JOINT SHOWN FOR CONVENIENCE ONLY. MONOLITHIC CONSTRUCTION MAY BE USED
2. ALL VISIBLE SURFACES SHALL BE A TROWEL FINISH
3. ALL REINFORCING STEEL SHALL BE 3/8" DIA. AND SPACED 12" CENTER TO CENTER BOTH WAYS UNLESS OTHERWISE SPECIFIED
4. IF WOOD FORMS ARE USED WITH CONSTRUCTION JOINT, THEY SHALL BE TWO, 2"x4" AND SHALL NOT BE REMOVED UNTIL CONCRETE ON SLOPES IS READY TO BE PLACED
5. ALL CONCRETE IN LINED CHANNEL SHALL BE NCTCDG CLASS "A" (MIN. 3000 P.S.I.) CONCRETE
6. LAT BOTTOM TO BE CONSTRUCTED WHEN CHANNEL WIDTH IS LESS THAN 12 FOOT
7. 3/4" CHAMFER ON ALL CONCRETE CORNERS

STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS



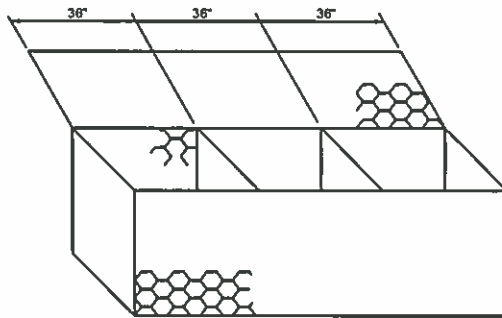
CHANNELS / CONCRETE

DESIGNED: E.W.D.  
DRAWN: M.K.W. / DBI

DATE: 07-05-16  
REVISION: N/C

CH-01

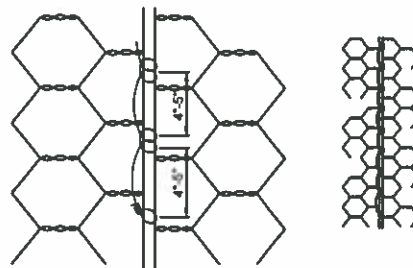




### **GABION CONTAINER**

N.T.S.

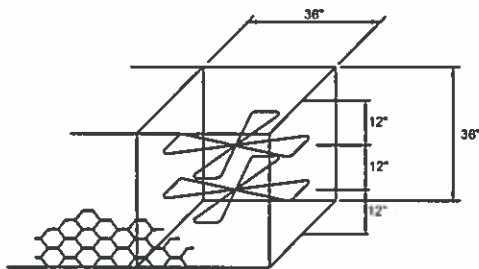
NOTE:  
GABION MAY BE CUT BUT SHALL BE RETIED  
IN A MANNER TO PRODUCE A CLOSED CELL  
AND ALL TIES SHALL BE IN CONFORMANCE  
WITH DETAILS



### **GABION TIE**

N.T.S.

NOTE:  
ALL TYING OF GABIONS SHALL BE AS SHOWN

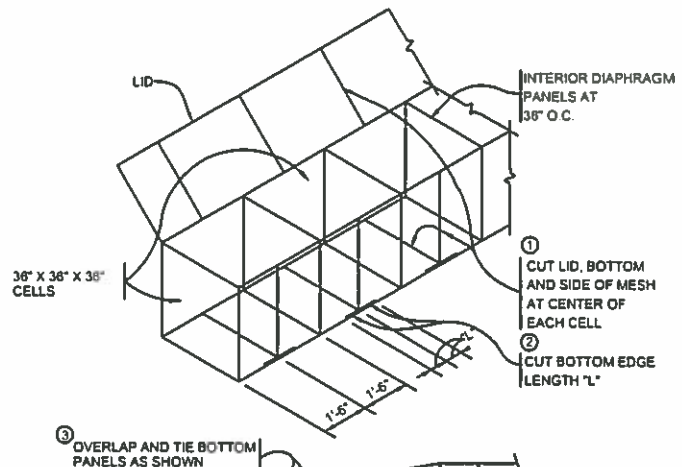


### **INNER TIE WIRE**

N.T.S.

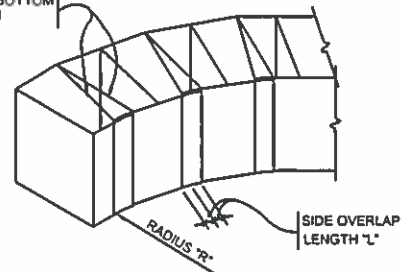
#### **TOPSOIL PLACEMENT PROCEDURE**

1. PRIOR TO CLOSING BASKET, PLACE A LAYER OF 3/4\"
2. SWEEP EXCESSIVE GRAVEL OFF THE GABIONS WITH A BROOM UNTIL FLUSH WITH OR BELOW THE TOP OF THE GABION. PLACE A LAYER OF SOIL ON TOP OF THE GABION WALL AND STEPS.
3. WASH OR \"JET\" THE SOIL INTO THE GABIONS.
4. PLACE FINAL LAYER OF TOPSOIL ON THE GABIONS TO A DEPTH OF SIX INCHES.



- ① CUT LID, BOTTOM AND SIDE OF MESH AT CENTER OF EACH CELL
- ② CUT BOTTOM EDGE LENGTH \"L\"
- ③ OVERLAP AND TIE BOTTOM PANELS AS SHOWN

NOTE-ALL RETYING OF THE CUT GABION SHALL BE BY TYING WITH A DOUBLE LOOP, MADE AT THE SAME POINT AT A 4 INCH SPACING



### **GABION RADIUS PROCEDURE**

STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS



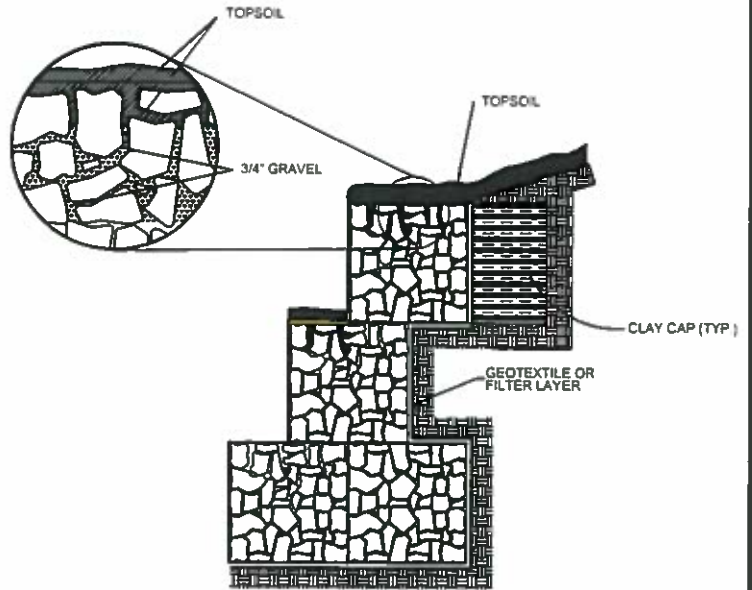
Farmersville

CHANNELS / GABIONS

DESIGNED: E.W.D.  
DRAWN: M.K.W. / DBI

DATE: 07-05-18  
REVISION: N/C

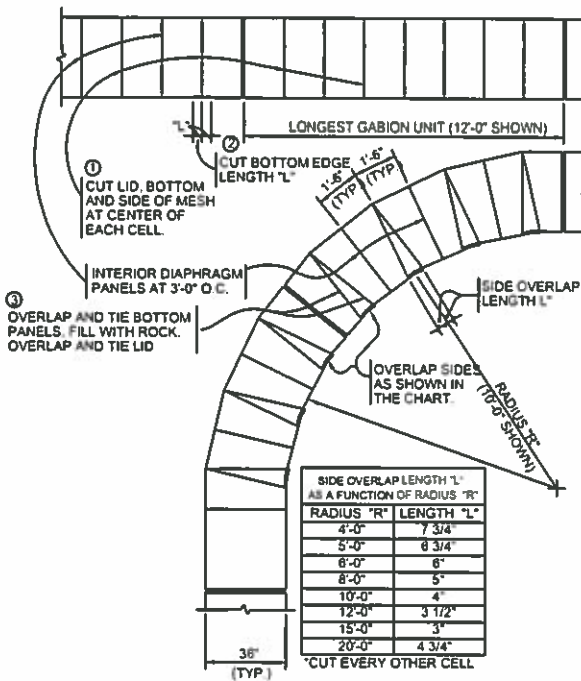
1. TOPSOIL PLACEMENT PROCEDURE PRIOR TO CLOSING BASKET. PLACE A LAYER OF 3/4" GRAVEL ON TOP OF THE GABION WALL AND THE HORIZONTAL STEPS FILLING THE VOIDS BETWEEN THE GABION ROCKS. SWEEP EXCESSIVE GRAVEL OFF THE GABIONS WITH A BROOM UNTIL FLUSH WITH OR BELOW THE TOP OF THE GABION. PLACE A LAYER OF SOIL ON TOP OF THE GABION WALL AND STEPS. WASH OR "JET" THE SOIL INTO THE GABIONS. PLACE FINAL LAYER OF TOPSOIL ON THE GABIONS TO A DEPTH OF SIX INCHES



### SECTION

NOTE:  
DO NOT USE SHARP TOOLS WHEN SPREADING TOPSOIL ON GABIONS

### VEGETATED GABION WALL TOPSOIL PLACEMENT



### GABION RADIUS PROCEDURE

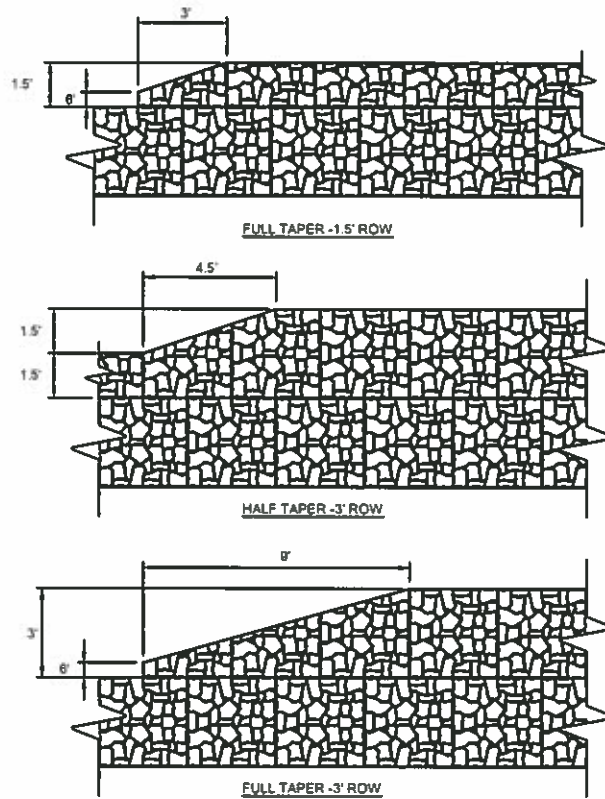
STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS



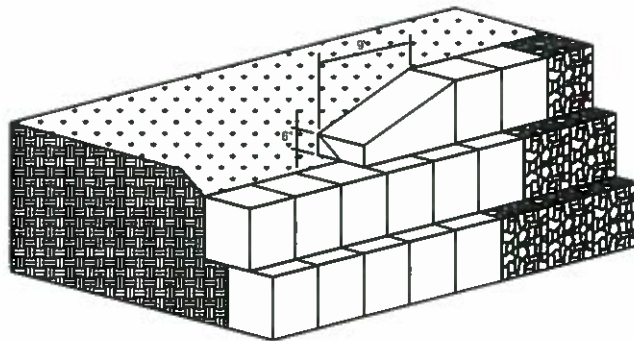
Farmersville

CHANNELS / GABIONS

DESIGNED: E.W.D. DATE: 07-05-16  
DRAWN: M.K.W. / DBI REVISION: N/C



**TAPERED WALL HEIGHT TRANSITION**



**STANDARD TAPER  
FOR WALL HEIGHTS TRANSITIONS**

CH-05

STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS



Farmersville

**CHANNELS / GABIONS**

DESIGNED: E.W.D.  
DRAWN: M.K.W. / D.B.I.

DATE: 07-05-16  
REVISION: N/C

# FIRE HYDRANT NOTES.

1. ALL FIRE HYDRANTS SHALL CONFORM TO AWWA STANDARDS SPECIFICATIONS FOR FIRE HYDRANTS FOR ORDINARY WATER WORKS SERVICE.

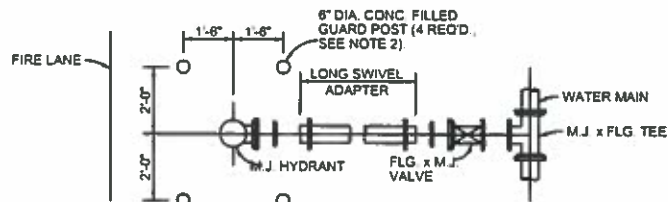
FIRE HYDRANTS SHALL HAVE A 5-1/4" MINIMUM VALVE OPENING AND A BARREL APPROXIMATELY 7" INSIDE DIAMETER.

ALL HYDRANTS SHALL BE EQUIPPED WITH A BREAKAWAY FLANGE, NOZZLE SECTION, UPPER AND LOWER STAND PIPES AND HYDRANT BASE SHALL BE DUCTILE IRON. THE UPPER BARREL ABOVE GROUND SHALL BE IN TWO SECTIONS TO ALLOW FOR EASY DISASSEMBLY. ALL HYDRANTS SHALL BE APPROVED BY THE CITY.

2. GUARD POSTS MAY BE REQUIRED AS DETERMINED BY THE CITY OF FARMERSVILLE FIRE DEPARTMENT. GUARD POSTS SHALL BE 6 L.F. OF 6" DIA. STEEL PIPE (3' ABOVE & BELOW GROUND LEVEL). POST SHALL BE ENCASED IN 16" DIA. CONC. PIER TO A DEPTH OF 12" BELOW POST BOTTOM. REINF. CONC. PIER WITH 2 NO. 8 BARS (12" LONG) THRU POST INTO PIER. POST ABOVE GROUND LEVEL SHALL BE PAINTED ALUMINUM WITH 2-2 INCH BANDS OF RED AND WHITE REFLECTIVE TAPE.
3. FIRE HYDRANTS SHALL BE CLASSIFIED IN ACCORDANCE WITH THE TABLE BELOW. FIRE HYDRANT BARRELS SHALL BE PAINTED SILVER. FIRE HYDRANT BONNETS AND CAPS SHALL BE PAINTED AND COLOR CODED IN ACCORDANCE WITH THE TABLE BELOW. PAINT TYPE AND MANUFACTURER SHALL BE APPROVED BY CITY BEFORE INSTALLATION.

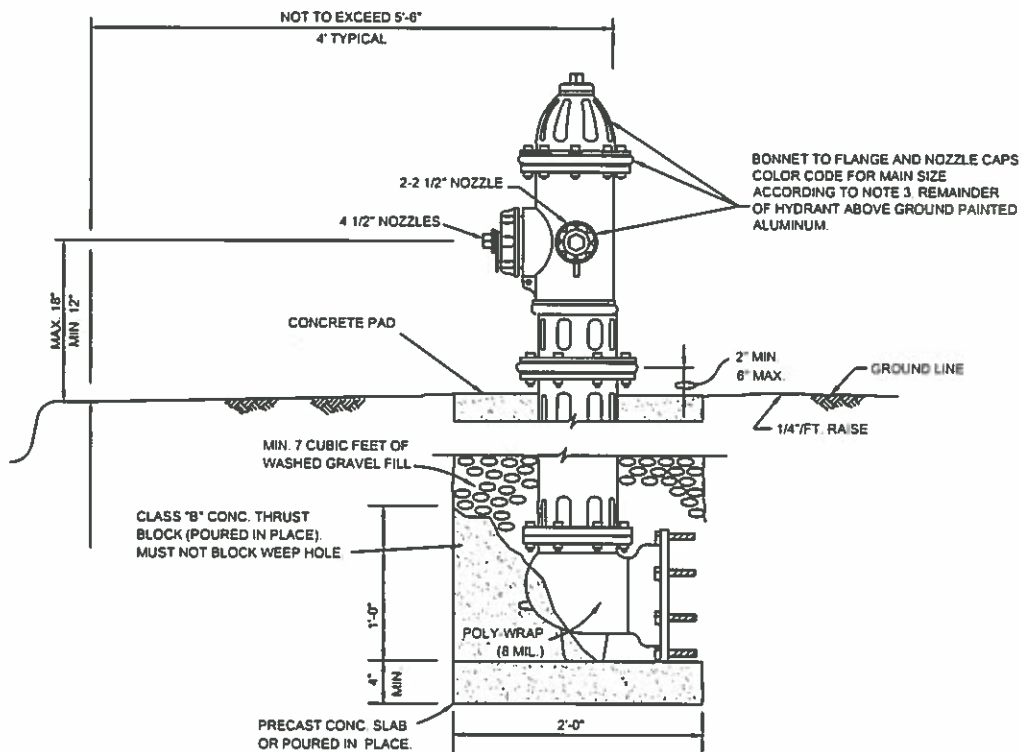
Fire Hydrant Class & Color Scheme		
Class	Flow at 20 PSIG	Color of Bonnet & Caps
AA	FLOW >= 1,500 gpm	BLUE
A	1,000 gpm <= FLOW < 1,500 gpm	GREEN
B	500 gpm <= FLOW < 1,000 gpm	ORANGE
C	250 gpm <= FLOW < 500 gpm	RED
NOP	FLOW < 250 gpm (non-operational)	BLACK

4. ALL HYDRANTS SHALL BE INSTALLED WITH A 24" X 24" SQUARE REINFORCED CONCRETE PAD.
5. IF A TEMPORARY CONDITION EXISTS FOR 30 DAYS OR LESS, WHERE A FIRE HYDRANT CANNOT DELIVER AT LEAST 250 gpm AT 20 psig, THEN A BLACK BAG MAY BE PLACED OVER THE FIRE HYDRANT TO IDENTIFY IT AS NON-OPERATIONAL IN LIEU OF PAINTING.
6. INDIVIDUAL FIRE HYDRANT CAPABILITIES MAY BE DETERMINED BY ENGINEERING HYDRAULIC ANALYSIS OR TESTS.
7. FIRE HYDRANTS SHALL BE MUELLER.
8. SPECIFIC FIRE HYDRANT PLACEMENT SHALL BE APPROVED BY THE CITY.
9. PAINT SHALL BE ALUMINUM TNEC OMNITHANE SERIES 530. SAFETY RED 085F. TNEC HI-BUILD GLOSS SERIES. SAFETY BLUE 115F. SAFETY GREEN 095F. SAFETY ORANGE 045F. BLACK 358R.



## STANDARD FIRE HYDRANT ASSEMBLY INSTALLATION

NOTE: APPROVAL REQUIRED FOR ALTERNATE INSTALLATIONS



STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS



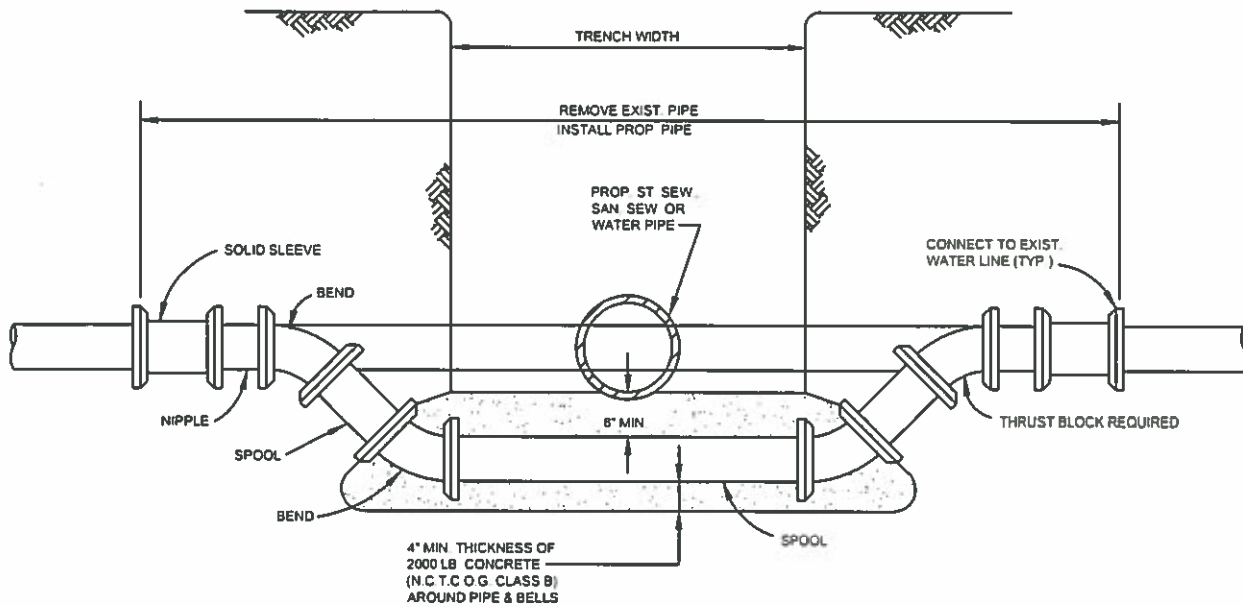
FIRE HYDRANT

DESIGNED: E.W.D. DATE: 07-05-18  
DRAWN: M.K.W. / DBJ REVISION: N/C



NOTES:

1. PROPOSED WATER PIPE SHALL BE DUCTILE IRON UNLESS OTHERWISE SPECIFIED IN PLANS. ALL FITTINGS SHALL BE DUCTILE IRON (M.J.-P.E.) MEGALUG.
2. PROPOSED PIPING & FITTINGS ARE SYMMETRIC ABOUT CENTER OF PROP. SAN SEW. OR ST. SEW. PIPE AND SHALL RETAIN TEST PRESSURES.
3. ALL THRUST BLOCKING SHALL BE SUBSIDIARY TO UNIT PRICE.
4. CROSSING OF SANITARY SEWER SHALL BE IN ACCORDANCE WITH T.N.R.C.C. REQUIREMENTS.



### WATER MAIN LOWERING

TRENCH WIDTH

NOTE:  
W=MINIMUM 18" GREATER THAN PIPE O.D.  
MAXIMUM 36" GREATER THAN PIPE O.C.

STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS



Farmersville

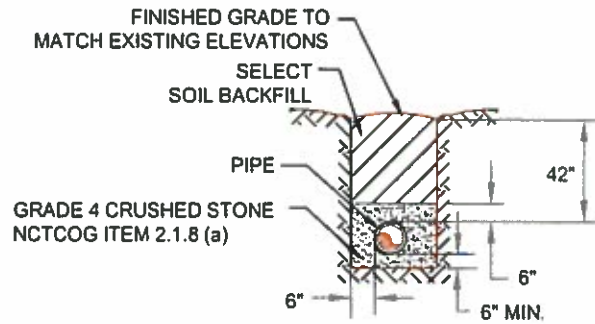
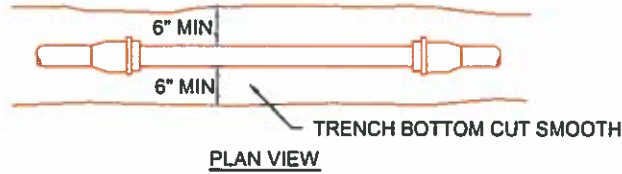
WATER MAIN LOWERING

DESIGNED E.W.D.  
DRAWN M.K.W. / DBI

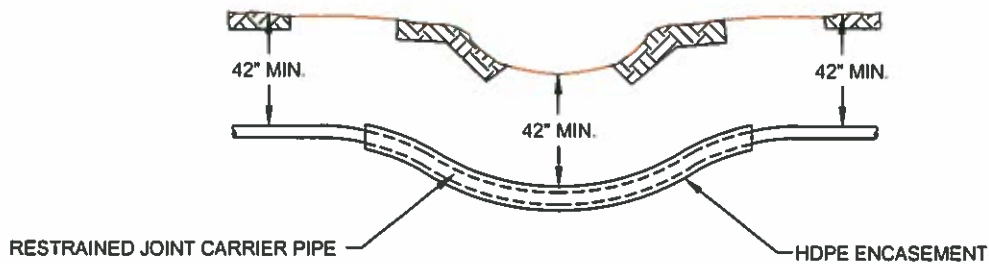
DATE: 07-05-16  
REVISION: N/C

**NOTES:**

1. SELECT BACKFILL SHALL BE SOIL MATERIAL.  
ROCK IN SELECT BACKFILL SHALL BE LIMITED TO  
2" MAX. DIMENSION.
2. BELOW DETAILS SHALL APPLY TO ALL PVC WATER  
PIPE 12" IN DIAMETER AND SMALLER.



**LAYING DETAILS FOR PVC WATER PIPE**



**WATERLINE CREEK CROSSING**

NOTE: MANUFACTURERS MINIMUM PIPE DEFLECTION  
DISTANCE RECOMMENDATIONS SHALL BE FOLLOWED.

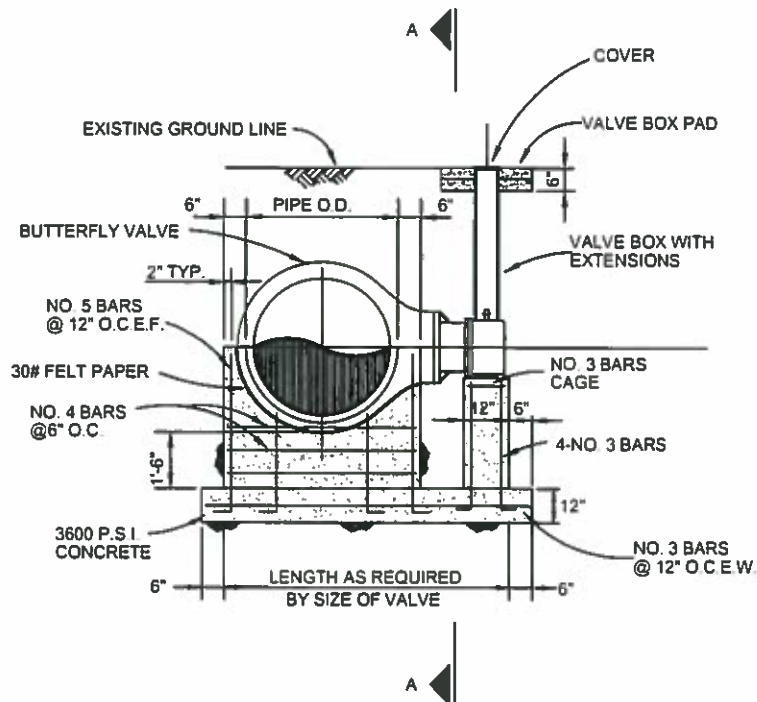
STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS



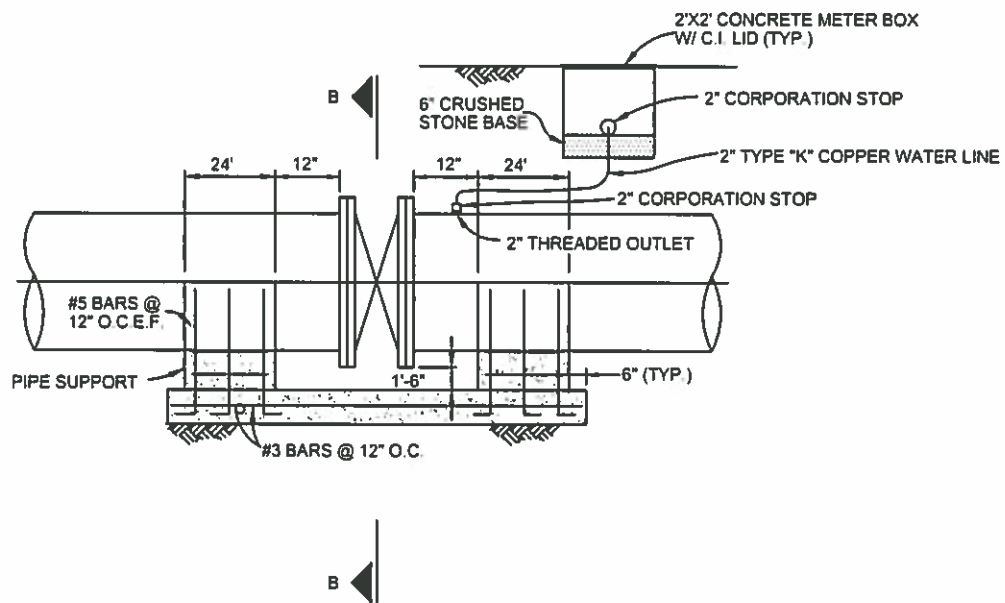
**WATERLINE LAYING & CREEK CROSSING**

DESIGNED E.W.D.  
DRAWN M.K.W. / DBI

DATE 07-05-18  
REVISION N/C



### SECTION B-B



### SECTION A-A

## BUTTERFLY VALVE INSTALLATION

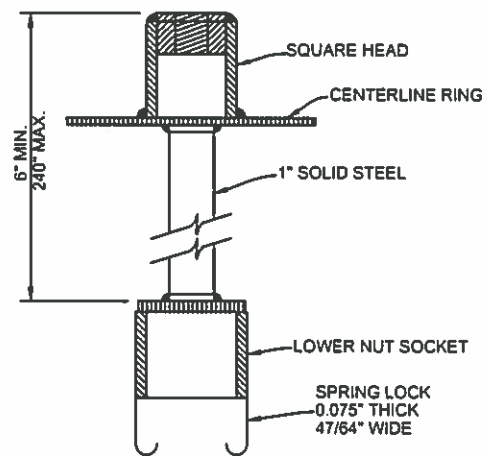
STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS



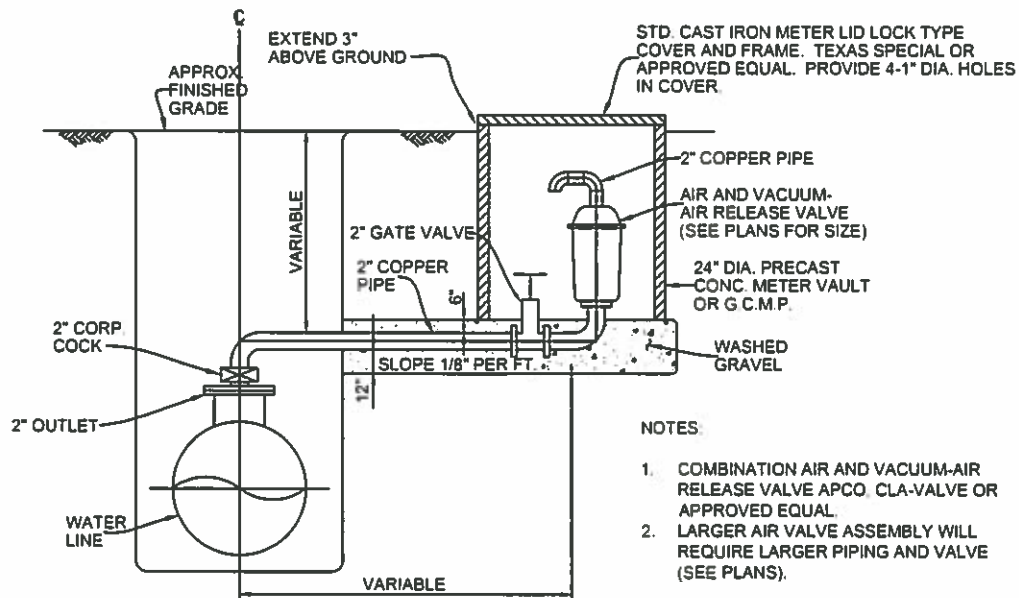
BUTTERFLY VALVE INSTALLATION

DESIGNED: E.W.D.  
DRAWN: M.K.W. / DBI

DATE: 07-05-18  
REVISION: NC



### SPRING LOCK VALVE EXTENSION



### AIR AND VACUUM - AIR RELEASE VALVE INSTALLATION

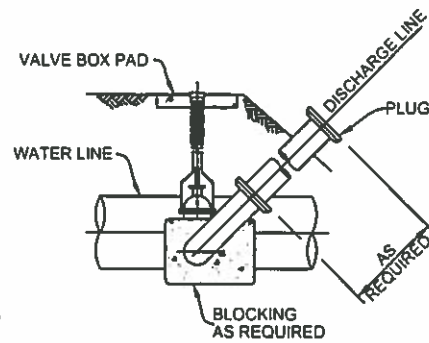
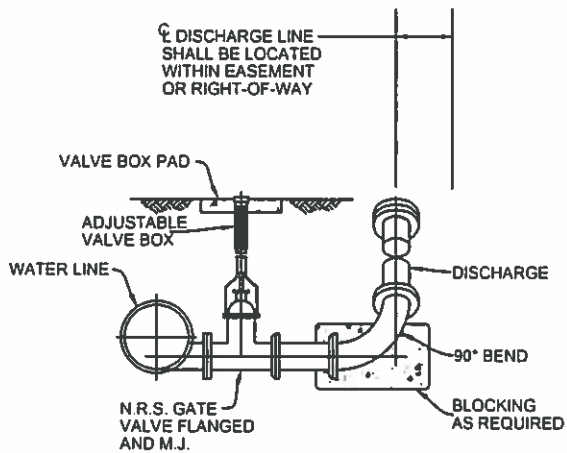
STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS



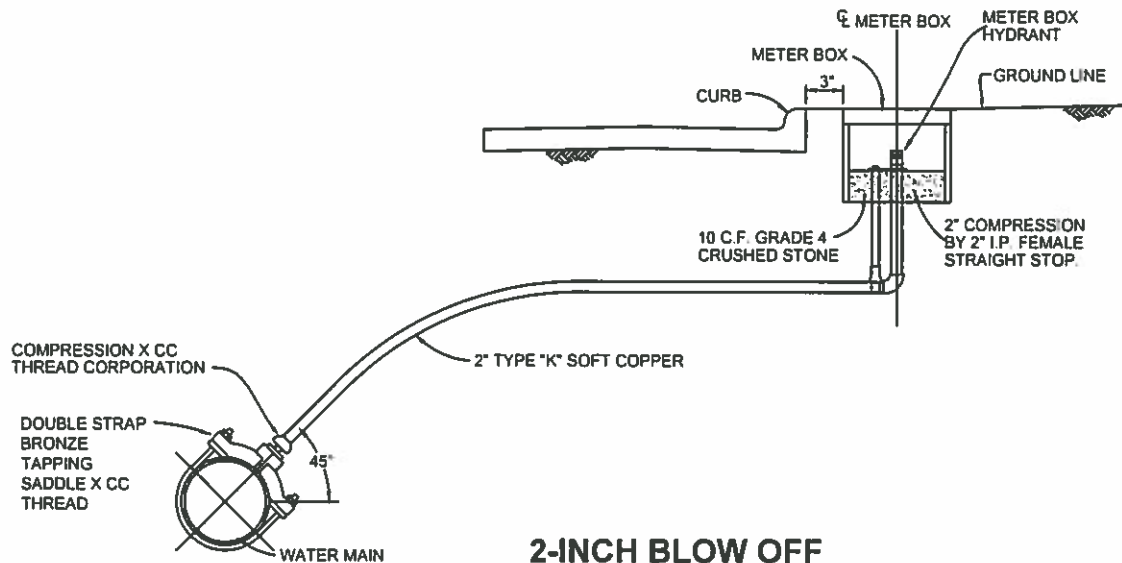
AIR RELEASE VALVE

DESIGNED: E.W.D.  
DRAWN: M.K.W. / DBI

DATE: 07-05-16  
REVISION: N/C



## BLOW OFF VALVE



## 2-INCH BLOW OFF

STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS

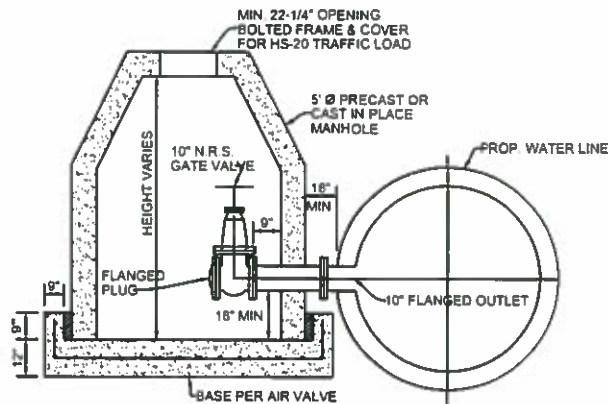
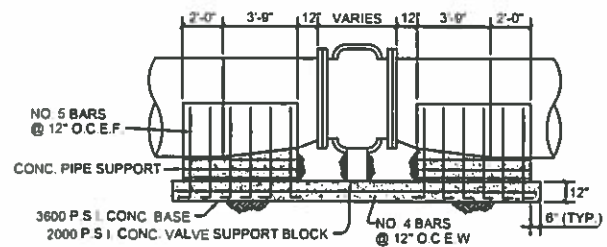
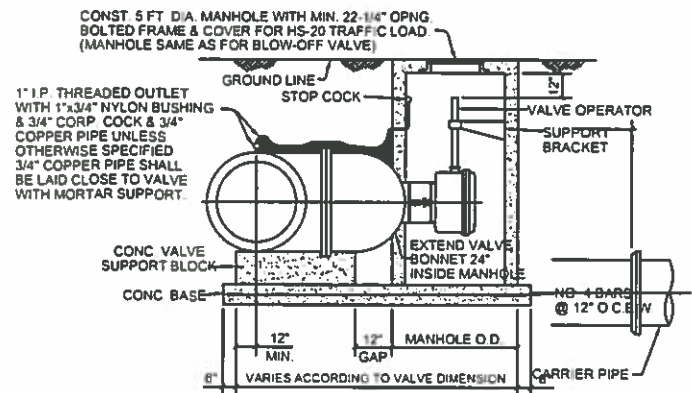
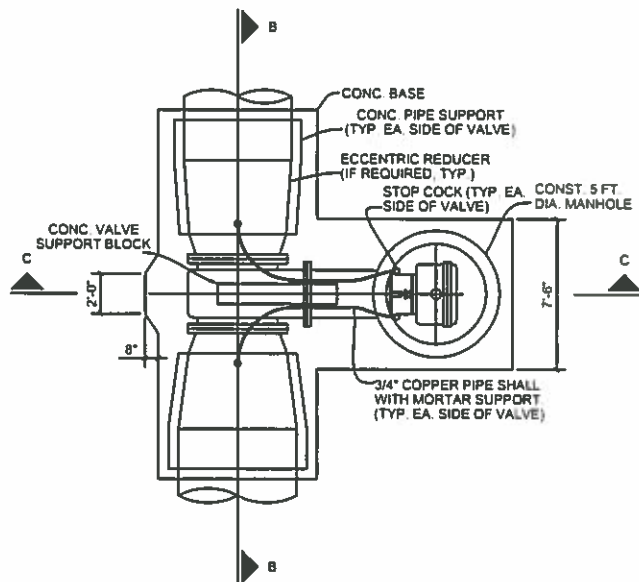


Farmersville

BLOW OFF VALVE

DESIGNED: E.W.D.  
DRAWN: M.K.W. / DBI

DATE: 07-05-18  
REVISION: N/C



## GENERAL NOTES FOR BORING, JACKING OR TUNNELING

1. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY LOCATING ALL EXISTING UTILITIES PRIOR TO BEGINNING ANY INSTALLATION ACTIVITIES
2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH REPAIR OR REPLACEMENT OF ANY PAVEMENT AND UNDERGROUND UTILITIES DAMAGED AS A RESULT OF CONSTRUCTION OPERATIONS.
3. DRY BORE SHALL BE UTILIZED UNLESS OTHER METHODS SPECIFICALLY ARE APPROVED IN WRITING BY THE CITY.

2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH REPAIR OR REPLACEMENT OF ANY PAVEMENT AND UNDERGROUND UTILITIES DAMAGED AS A RESULT OF CONSTRUCTION OPERATIONS.

3. DRY BORE SHALL BE UTILIZED UNLESS OTHER METHODS SPECIFICALLY ARE APPROVED IN WRITING BY THE CITY.

# STANDARD CONSTRUCTION DETAILS FOR CITY OF FARMERSVILLE COLLIN COUNTY, TEXAS



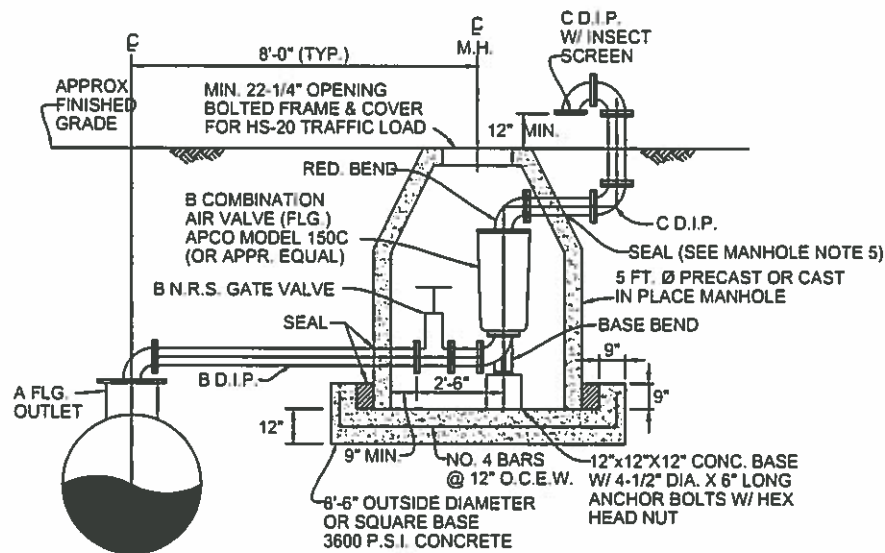
## BLOW OFF VALVE WITH MANHOLE

DESIGNED E.W.D.  
DRAWN M.K.W. / DBI

DATE: 07-05-18
REVISION: N/C

NOTE: FOR DIMENSIONS A, B & C SEE TABLE BELOW

MAIN DIA.	A	B	C
24	9	4	4
30	12	4	4
36	12	6	4
42	15	6	6
48	18	6	6
54	18	8	6



## AIR RELEASE VALVE W/MANHOLE

NO SCALE

### GENERAL NOTES FOR BORING, JACKING OR TUNNELING

1. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY LOCATING ALL EXISTING UTILITIES PRIOR TO BEGINNING ANY INSTALLATION ACTIVITIES.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH REPAIR OR REPLACEMENT OF ANY PAVEMENT AND UNDERGROUND UTILITIES DAMAGED AS A RESULT OF CONSTRUCTION OPERATIONS.
3. DRY BORE SHALL BE UTILIZED UNLESS OTHER METHODS SPECIFICALLY ARE APPROVED IN WRITING BY THE CITY.

STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS



Farmersville

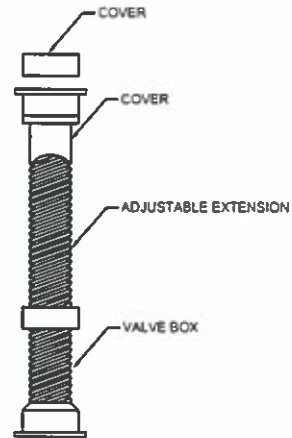
AIR RELEASE VALVE W/ MANHOLE

DESIGNED: E.W.D.  
DRAWN: M.K.W. / DBI

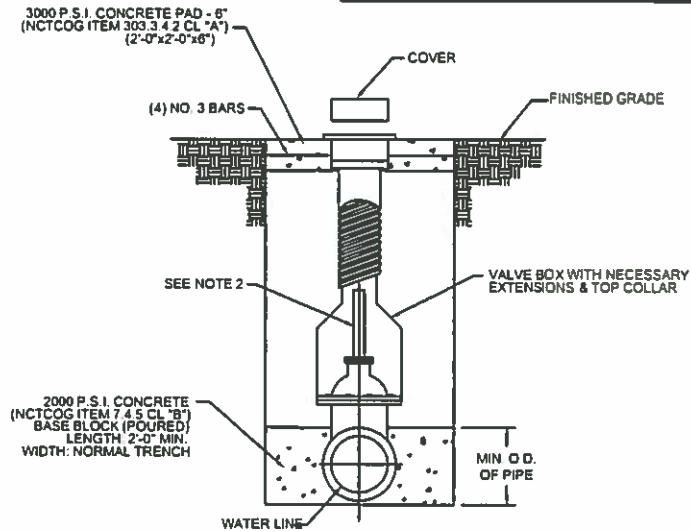
DATE: 07-05-16  
REVISION: NC

**NOTES:**

1. 4" TO 12" GATE VALVE SHALL BE RESILIENT SEATED WEDGE IN ACCORDANCE WITH AWWA STANDARD C-509.
2. A PERMANENTLY ATTACHED VALVE EXTENSION STEM SHALL BE REQUIRED FOR ANY VALVE WHOSE OPERATING NUT IS LOCATED IN EXCESS OF 4 FT BELOW THE TOP OF VALVE BOX. THIS EXTENSION SHALL BE OF SUFFICIENT LENGTH TO INSURE THAT ITS TOP IS WITHIN 4" OF THE VALVE BOX COVER.
3. PAINT VALVE STACK COVERS IN ACCORDANCE WITH THE FOLLOWING:  
STANDARD WATERLINE - BLUE  
FIRE HYDRANT - RED  
FLUSH VALVE - BLACK  
DEAD END - WHITE



**VALVE BOX W/ EXTENSION**



**GATE VALVE INSTALLATION**

NOT TO SCALE

60-W

STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS



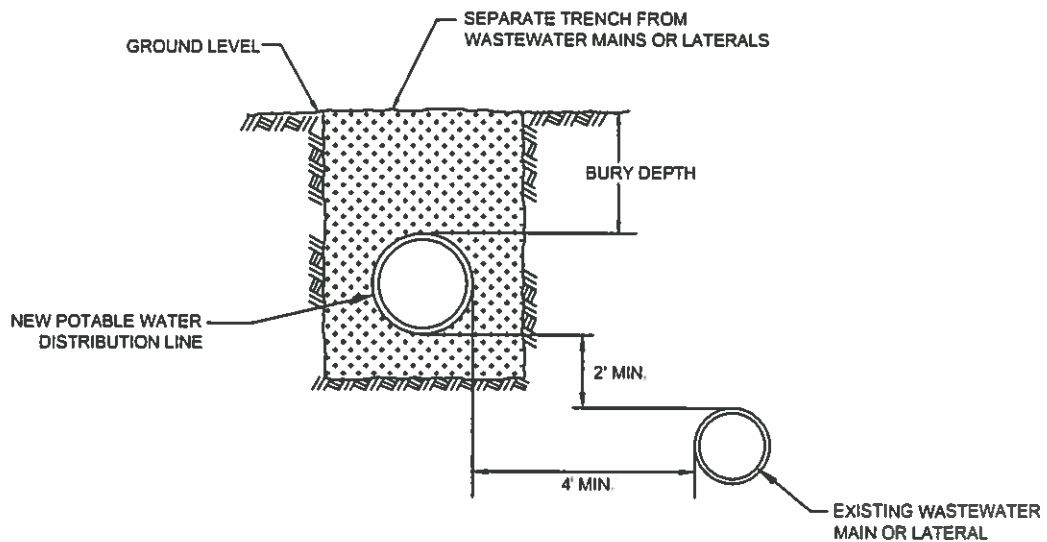
Farmersville

**GATE VALVE INSTALLATION**

DESIGNED: E.W.D.  
DRAWN: M.K.W. / DBI

DATE: 07-05-16  
REVISION: N/C





## **WATER LINE INSTALLATION - PARALLEL LINES**

9' SEPARATION DISTANCE CANNOT BE ACHIEVED.  
EXISTING LEAKING/NON-LEAKING WASTEWATER MAIN OR LATERAL

### **NOTES:**

1. ENGINEER TO DETERMINE IF EXISTING WASTEWATER MAIN OR LATERAL IS LEAKING.
2. EXISTING LEAKING WASTEWATER MAIN OR LATERAL SHALL BE REPLACED WITH 150 psi PRESSURE RATED PIPE, FOR AT LEAST 9' IN BOTH DIRECTIONS.
3. MAKE EVERY EFFORT NOT TO DISTURB THE BEDDING AND BACKFILL OF THE EXISTING WASTEWATER MAIN OR LATERAL.

STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS



Farmersville

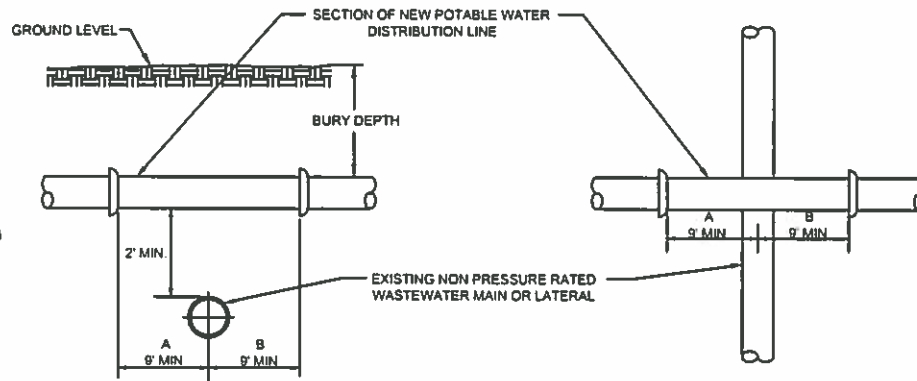
**WATERLINE INSTALLATION - PARALLEL LINES**

DESIGNED: E.W.D.  
DRAWN: M.K.W. / DBI

DATE: 07-05-18  
REVISION: N/C

**NOTES:**

1. A AND B ARE EQUIDISTANT
2. IF EXISTING WASTEWATER MAIN OR LATERAL SHOWS SIGNS OF LEAKING, IT SHALL BE REPLACED AT LEAST 9' IN BOTH DIRECTIONS (18 FEET TOTAL) WITH AT LEAST 150psi PRESSURE RATED PIPE

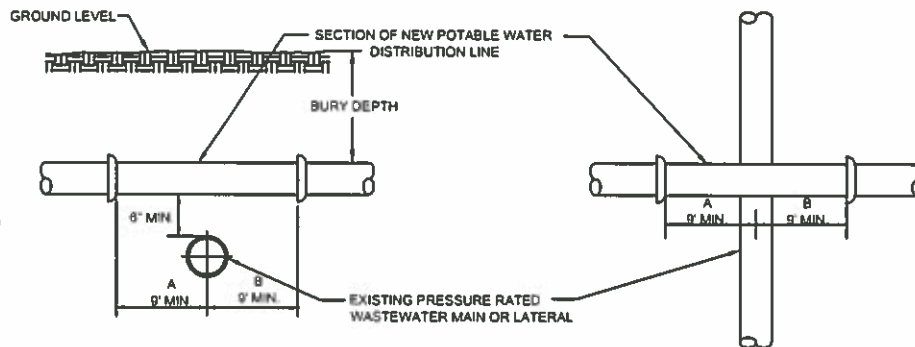


**WATER LINE INSTALLATION - CROSSING LINES**

9' SEPARATION DISTANCE CANNOT BE ACHIEVED.  
EXISTING NON-PRESSURE RATED MAIN OR LATERAL.

**NOTES:**

1. A AND B ARE EQUIDISTANT
2. IF EXISTING WASTEWATER MAIN OR LATERAL SHOWS SIGNS OF LEAKING, IT SHALL BE REPLACED AT LEAST 9' IN BOTH DIRECTIONS (18 FEET TOTAL) WITH AT LEAST 150psi PRESSURE RATED PIPE



**SIDE VIEW**

**TOP VIEW**

**WATER LINE INSTALLATION - CROSSING LINES**

9' SEPARATION DISTANCE CANNOT BE ACHIEVED.  
EXISTING PRESSURE RATED MAIN OR LATERAL.

STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS



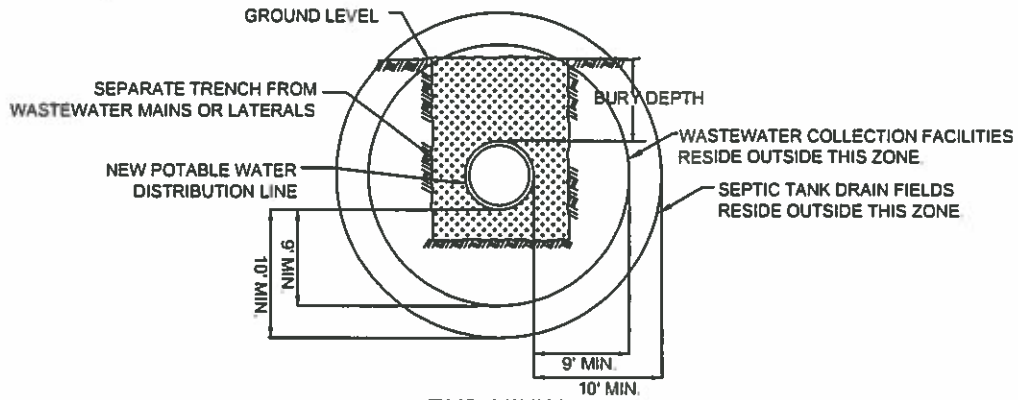
**WATERLINE INSTALLATION - CROSSING LINES**

DESIGNED: E W D  
DRAWN: M K W / DBI

DATE: 07-05-16  
REVISION: N/C

**NOTES:**

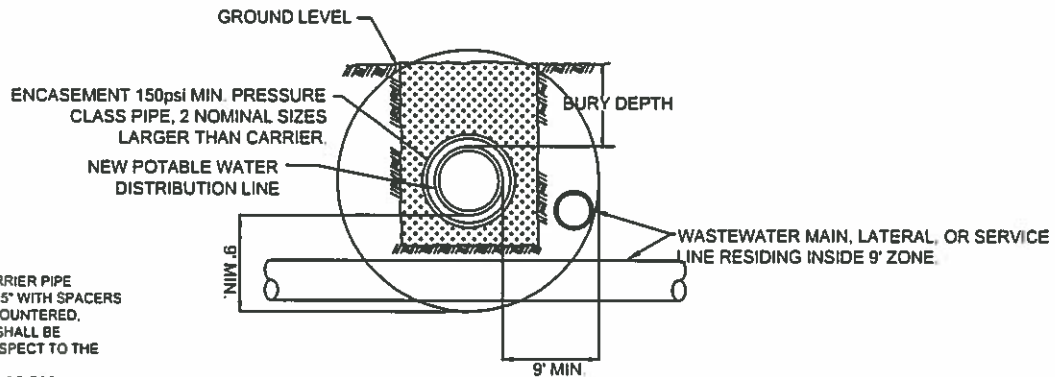
1. FIRE HYDRANTS SHALL NOT BE INSTALLED WITHIN 9' VERTICALLY OR HORIZONTALLY OF ANY WASTEWATER MAIN, LATERAL, OR SERVICE LINE
2. SUCTION MAINS SHALL NOT CROSS WASTEWATER MAINS, LATERALS, OR SERVICE LINES
3. RAW WATER SUPPLY LINES SHALL NOT BE INSTALLED WITHIN 5' OF ANY TILE OR CONCRETE WASTEWATER MAINS, LATERALS, OR SERVICE LINES



**END VIEW**  
NOT TO SCALE

**TYPICAL WATER LINE INSTALLATION**

9' SEPARATION DISTANCE CAN BE ACHIEVED



**END VIEW**  
NOT TO SCALE

**TYPICAL WATER LINE INSTALLATION  
PARALLEL OR CROSSING**

ALTERNATE INSTALLATION  
9' SEPARATION DISTANCE CAN BE ACHIEVED

**NOTES:**

1. SPACE AROUND CARRIER PIPE SUPPORTED EVERY 5' WITH SPACERS
2. IF CROSSING IS ENCOUNTERED, ENCASEMENT PIPE SHALL BE CENTERED WITH RESPECT TO THE CROSSING
3. ENCASEMENT EXTENDS FOR 9' MINIMUM BEYOND THE POINTS WHERE THE 9' KEEP-OUT ZONE IS ENCOUNTERED.
4. ENCASEMENT SHALL BE SEALED AT THE ENDS WITH CEMENT GROUT OR MANUFACTURED SEALANT.

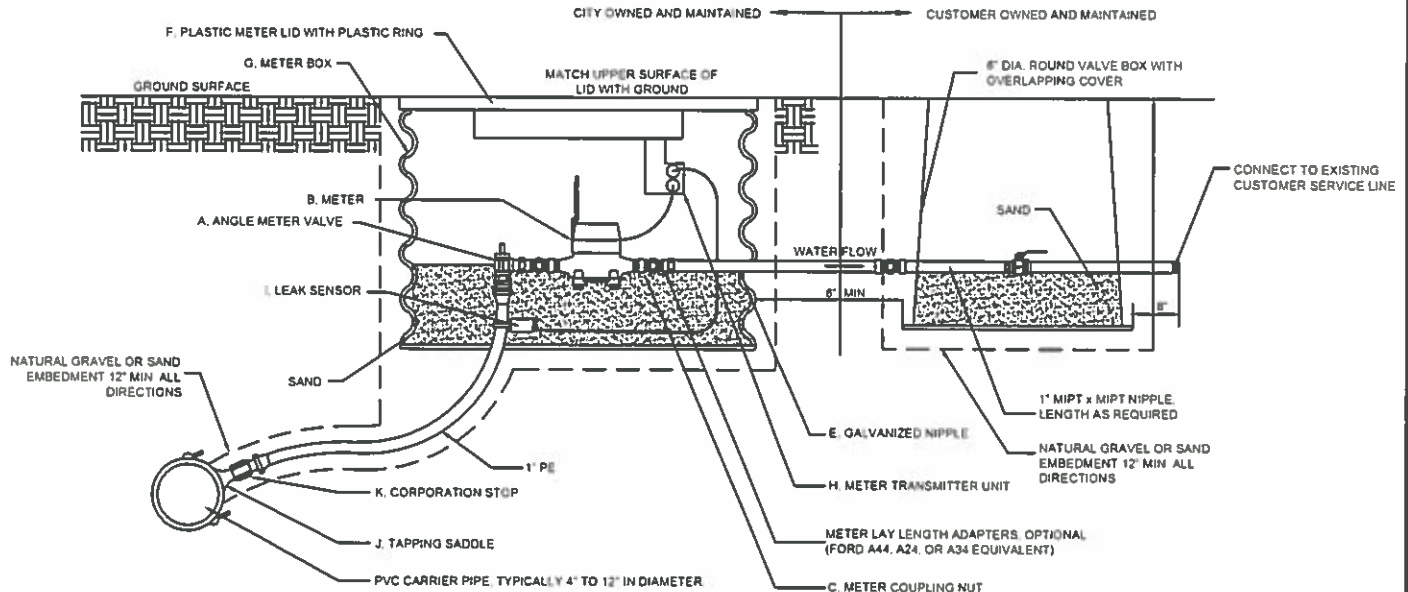
STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS



**WATERLINE INSTALLATION W/ 9' SEPARATION**

DESIGNED: E.W.D.  
DRAWN: M.K.W. / DBI

DATE: 07-05-18  
REVISION: N/C



Item	Description	Water Line Size/Meter Size/Part Manufacturer/Part Number			
		Inlet 1" PE Meter 5/8" X 3/4" Outlet 1" PE	Inlet 1" PE Meter 1" Outlet 1" PE	Inlet 1.5" PE Meter 1.5" Outlet 1.5" PE	Inlet 2" PE Meter 2" Outlet 2" PE
A	Angle Meter Valve	Ford, BA43-342W-G, Pack Joint X Meter Swivel Nut, Padlock Wings, Grip Joint	Ford, BA43-444W-G, Pack Joint X Meter Swivel Nut, Padlock Wings, Grip Joint	Ford, FV43-666W-G, Pack Joint X Meter Swivel Nut, Padlock Wings, Grip Joint	Ford, FV43-777W-G, Pack Joint X Meter Swivel Nut, Padlock Wings, Grip Joint
B	Meter	Badger, E-Series Ultrasonic 31655, 5/8" X 3/4", 1 Gallon Resolution, 7.5" Lay Length, UM1-0007-6873	Badger, E-Series Ultrasonic 31655, 1", 1 Gallon Resolution, 10.75" Lay Length, UM1-0007-8421	E-Series Ultrasonic 31655, 1.5", 1 Gallon Resolution, UM1-0007-9007	E-Series Ultrasonic 31655, 2", 1 Gallon Resolution, UM1-0007-7974
C	Meter Coupling Nut	Ford, 5/8" X 3/4" Meter X 1" FIPT, C31-24	Ford, 1" Meter X 1" FIPT, C31-44		
D	Meter Flange			Ford, 1.5" Meter Flange X 1.5" FIPT, CF31-66	Ford, 2" Meter Flange X 2" FIPT, CF31-77
E	Galvanized Nipple	1" MIPT X 1" MIPT, 18" Long	1" MIPT X 1" MIPT, 18" Long	1.5" MIPT X 1.5" MIPT, 18" Long	2" MIPT X 2" MIPT, 18" Long
F	Plastic Meter Lid with Plastic Ring	Nicor, 12 55LFARI Type C Lid and 17 75X12.75Ring	Nicor, 12 55LFARI Type C Lid and 17 75X12.75Ring	Field Determined as Approved by City	Field Determined as Approved by City
G	Meter Box	Contech, A-2000 Drainage Pipe, PVC, 18" Diameter, 18" Long or Field Adjusted to Length	Contech, A-2000 Drainage Pipe, PVC, 18" Diameter, 18" Long or Field Adjusted to Length	Field Determined as Approved by City	Field Determined as Approved by City
H	Meter Transmitter Unit	Itron, With Leak Sensor Capability, ERW-1300-203	Itron, With Leak Sensor Capability, ERW-1300-203	Itron, With Leak Sensor Capability, ERW-1300-203	Itron, With Leak Sensor Capability, ERW-1300-203
I	Leak Sensor	Optional by City Direction, Itron, LDS-0001-001	Optional by City Direction, Itron, LDS-0001-002	Optional by City Direction, Itron, LDS-0001-003	Optional by City Direction, Itron, LDS-0001-004
J	Tapping Saddle	Ford, Hinged Design, Style SXK, AWWA Threads	Ford, Hinged Design, Style SXK, AWWA Threads	Ford, Hinged Design, Style SXK, AWWA Threads	Ford, Hinged Design, Style SXK, AWWA Threads
K	Corporation Stop	Ford, AWWA/CC Taper Thread X Pack Joint, Grip Joint	Ford, AWWA/CC Taper Thread X Pack Joint, Grip Joint	Ford, AWWA/CC Taper Thread X Pack Joint, Grip Joint	Ford, AWWA/CC Taper Thread X Pack Joint, Grip Joint

## SERVICE CONNECTION

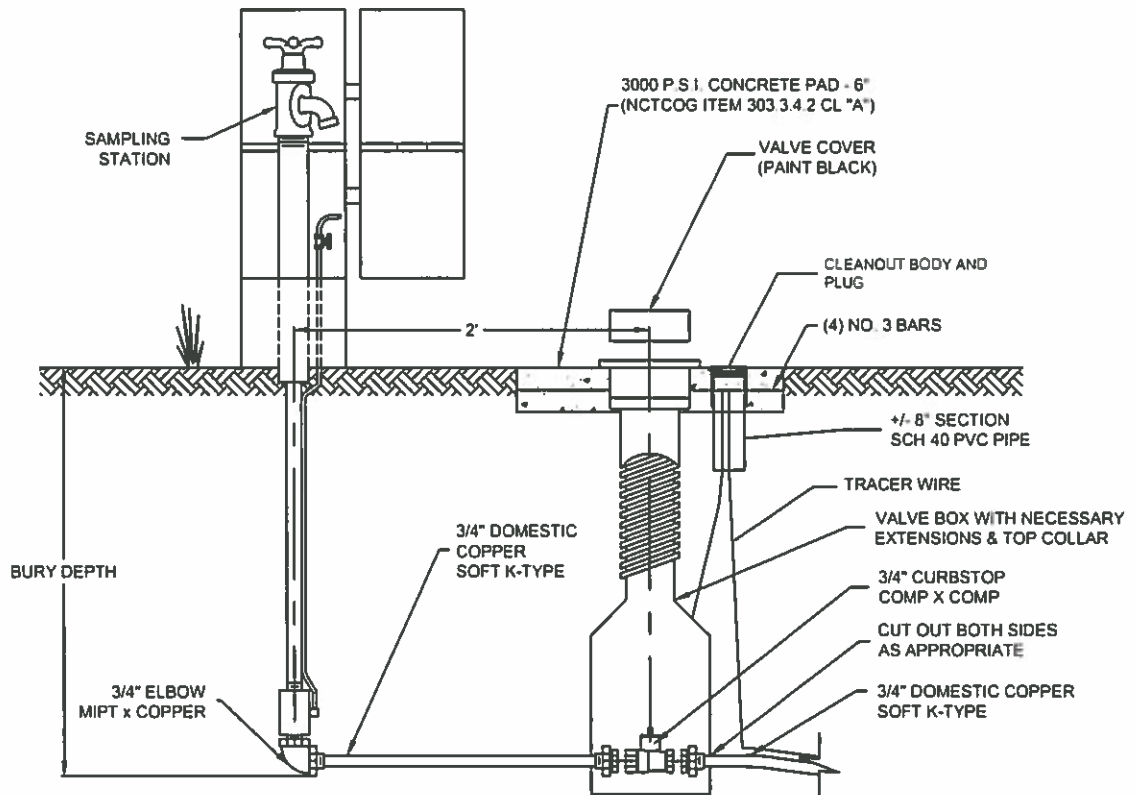
ALL METERS WITH VAULTS LARGER THAN 2" DIA. SHALL BE APPROVED BY THE CITY OF FARMERSVILLE

STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS



SERVICE CONNECTION

DESIGNED: E.W.D. DATE: 07-05-16  
DRAWN: M.K.W. / DBI REVISION: N/C



**GENERAL NOTES:**

1. SAMPLING STATIONS SHALL BE 3'-0" BURY, WITH A 3/4" FIP INLET, AND A (3/4" HOSE OR UNTHREADED) NOZZLE.
2. ALL STATIONS SHALL BE ENCLOSED IN A LOCKABLE, NONREMOVABLE, ALUMINUM-CAST HOUSING.
3. WHEN OPENED, THE STATION SHALL REQUIRE NO KEY FOR OPERATION, AND THE WATER WILL FLOW IN AN ALL BRASS WATERWAY.
4. ALL WORKING PARTS WILL ALSO BE OF BRASS AND BE REMOVABLE FROM ABOVE GROUND WITH NO DIGGING. EXTERIOR PIPING SHALL BE GALVANIZED STEEL (BRASS PIPE ALSO AVAILABLE).
5. A COPPER VENT TUBE WILL ENABLE EACH STATION TO BE PUMPED FREE OF STANDING WATER TO PREVENT FREEZING AND TO MINIMIZE BACTERIA GROWTH.
6. ECLIPSE NO. 88-SS SAMPLING STATION SHALL BE MANUFACTURED BY KUPFERLE FOUNDRY, ST. LOUIS, MO 63102.

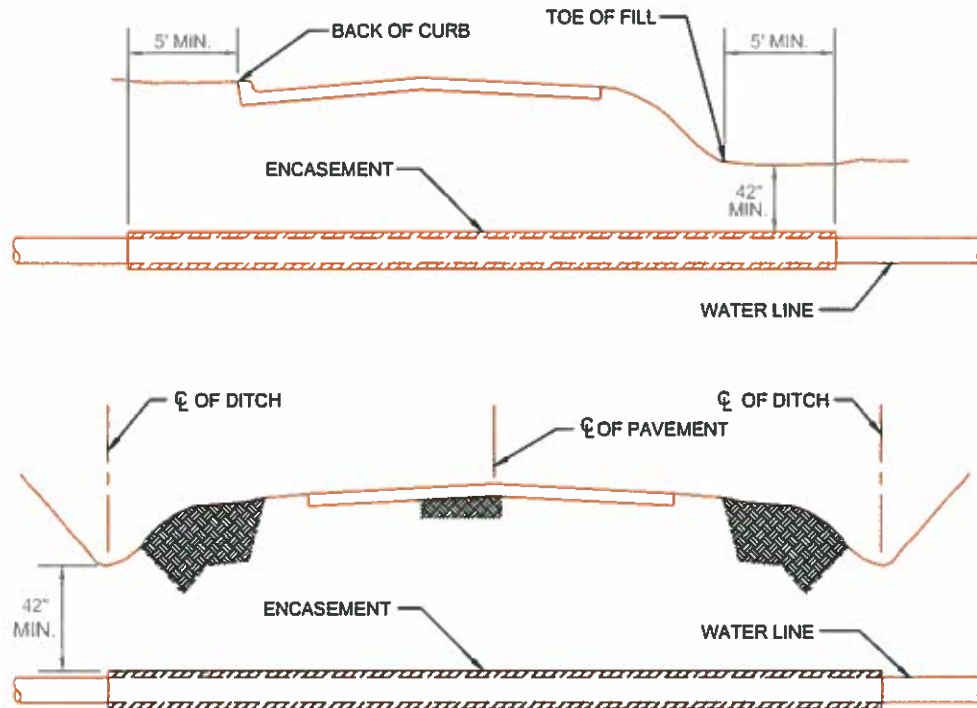
## SAMPLING STATION

STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS

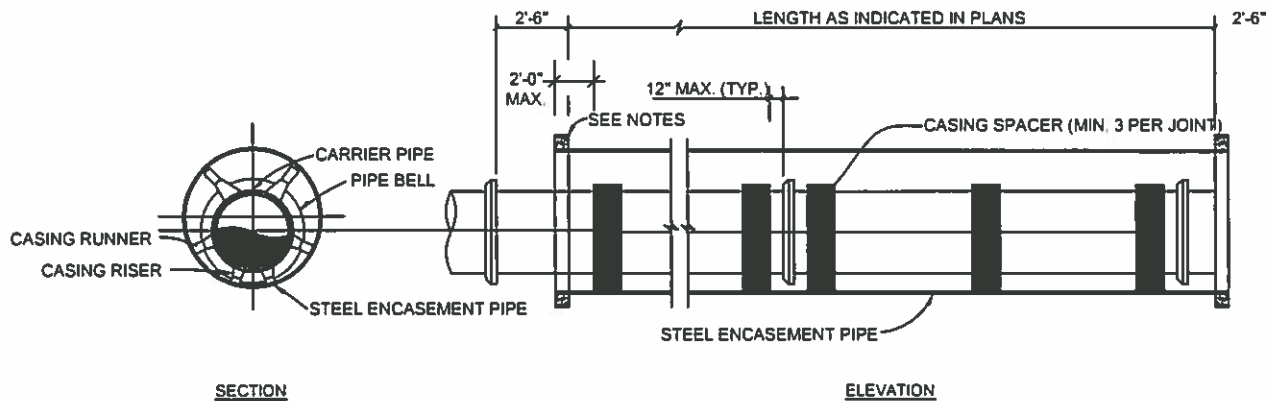


**SAMPLING STATION**

DESIGNED: E.W.D.	DATE: 07-05-18
DRAWN: M.K.W. / DBI	REVISION: N/C



## ROAD BORE & ENCASEMENT



## WATERLINE ENCASEMENT

### NOTES:

1. 3 MORTAR BANDS MAY BE USED IN LIEU OF CASING SPACERS FOR R.C.C.P.
2. CONTRACTOR SHALL PROVIDE SUPPORT UNDER CARRIER PIPE TO HAVE MIN. 1.5\"
3. ENDS OF ENCASEMENT PIPE SHALL BE PLUGGED WITH BRICK AND MORTAR FOR ROADWAY CROSSINGS AND CLAY FOR ROADWAY CROSSINGS.
4. CONTRACTOR SHALL FURNISH & INSTALL A MINIMUM OF 3 CASING SPACERS PER JOINT OF PIPE. CASING SPACERS SHALL BE INSTALLED ACCORDING TO MANUFACTURERS' RECOMMENDATIONS. CASING SPACERS SHALL BE AS MANUFACTURED BY P.S.I. OR APPROVED EQUAL.

STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS



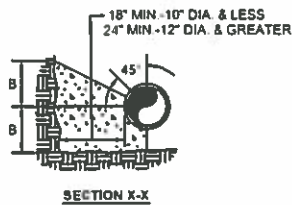
WATERLINE ROAD BORE ENCASEMENT

DESIGNED: E.W.D.  
DRAWN: M.K.W./DBI

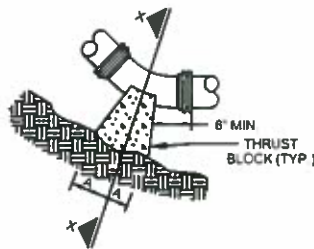
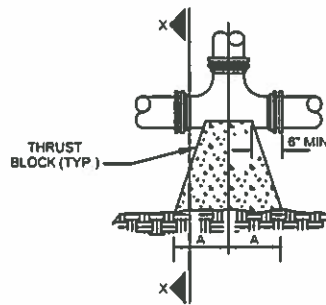
DATE: 07-05-16  
REVISION: N/C

# NOTES:

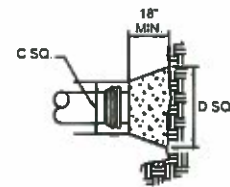
1. FOR VERT. BEND DOWN IN EXCESS OF 11 1/4" BEND, ANCHORAGE SHALL BE DESIGNED BY ENGINEER.
2. FOR VERT. BEND UPWARD, BLOCKING TO BE SIMILAR TO THAT FOR HORIZ. BEND
3. GLANDS & BOLTS SHALL BE PROTECTED FROM CONC. BY PLASTIC SHEETING WHEN POURING THRUST BLOCKS
4. ALL THRUST BLOCK & SUPPORT CONC. SHALL BE 3000 PSI READY MIX CONC.
5. THRUST BLOCKS WITH "B" DIMENSION GREATER THAN 30" SHALL HAVE THE RESTRAINED PIPE INSTALLED WITH A MINIMUM OF 4" OF COVER.
6. IF UNDER 100 PSI WORKING PRESSURE, RESTRAINT JOINTS MUST BE USED. IF EQUAL OR GREATER THAN 100 PSI WORKING PRESSURE, BOTH BLOCK AND RESTRAINT JOINTS ARE REQUIRED.



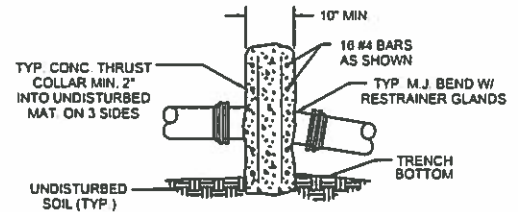
**BENDS AND TEES**



**PLAN BENDS**



**PLAN AND ELEVATION PLUGS**



**SECTION OF VERTICAL BEND**

## THRUST BLOCK

PIPE SIZE	90° BEND		45° BEND		22 1/2° BEND		11 1/4° BEND		TEE		PLUG	
	A	B	A	B	A	B	A	B	A	B	C	D
4"	8"	12"	8"	8"	6"	6"	6"	6"	11"	9"	10"	6"
6"	18"	12"	8"	10"	8"	8"	8"	8"	11"	10"	12"	18"
8"	18"	13"	10"	10"	8"	8"	8"	8"	11"	12"	12"	24"
10"	20"	16"	12"	14"	8"	12"	8"	12"	14"	16"	16"	30"
12"	20"	16"	12"	14"	8"	12"	8"	12"	14"	16"	16"	30"
16"	26"	20"	16"	18"	11"	13"	11"	13"	18"	20"	20"	36"
24"	82"	42"	62"	30"	44"	22"	22"	16"	82"	42"	82"	42"
30"	185"	42"	100"	42"	52"	42"	40"	30"	185"	42"	185"	42"

PRESSURE = 200 psi  
BEARING = 2000 pcf  
FACTOR OF SAFETY = 1.5

FACTOR OF SAFETY = 1.5

PIPE SIZE	PIPE MAT'L	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND	VALVE / PLUG	TEE BRANCH	RED. (NOTE 2)	VERT. 45°	VERT. 22 1/2°	VERT. 11 1/4°
6"	D.I.	28'	12'	6'	3'	38'	34'	20'	23'	11'	5'
8"	D.I.	37'	15'	7'	4'	51'	47'	21'	30'	15'	7'
10"	D.I.	45'	19'	9'	4'	61'	57'	20'	37'	18'	9'
12"	D.I.	53'	22'	11'	5'	73'	69'	38'	43'	21'	10'
6"	PVC	30'	12'	6'	3'	56'	38'	29'	35'	17'	8'
8"	PVC	40'	16'	8'	4'	74'	56'	31'	46'	22'	11'
10"	PVC	47'	20'	9'	5'	89'	82'	30'	56'	27'	13'
12"	PVC	56'	23'	11'	6'	106'	88'	56'	66'	32'	16'

### NOTES:

1. ALL JOINTS SHALL BE RESTRAINED ON BOTH SIDES OF THE FITTING FOR THE LENGTH SHOWN UNLESS OTHERWISE INDICATED
2. REDUCER IS ONE SIZE SMALLER THAN PIPE LISTED. RESTRAINED LENGTH IS UPSTREAM ON THE LARGE SIDE OF THE REDUCER.
3. IF UNDER 100 PSI WORKING PRESSURE, RESTRAINT JOINT(S) ARE TO BE USED. IF EQUAL TO OR OVER 100 PSI WORKING PRESSURE, BOTH THRUST BLOCK AND RESTRAINT JOINTS SHALL BE USED.

STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS



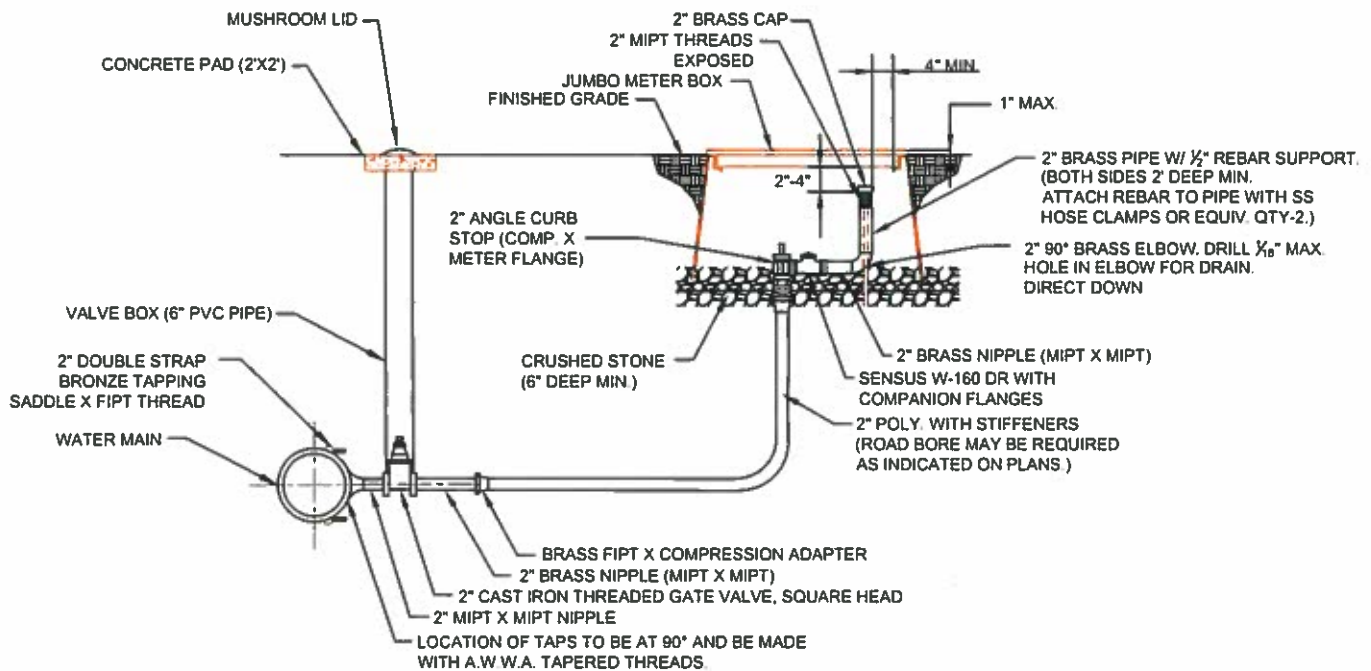
THRUST BLOCK

DESIGNED: E.W.D.  
DRAWN: M.K.W. / DBI

DATE: 07-05-18  
REVISION: NC

**NOTES:**

1. PAINT VALVE STACK COVERS IN ACCORDANCE WITH THE FOLLOWING:  
 STANDARD WATERLINE - BLUE  
 FIRE HYDRANT - SILVER  
 FLUSH VALVE - BLACK  
 DEAD END - WHITE
2. METER BOX HOLES MAY NEED TO BE ENLARGED TO ACCOMMODATE PIPE.



**2" BURIED FLUSH VALVE ASSEMBLY**

W-17

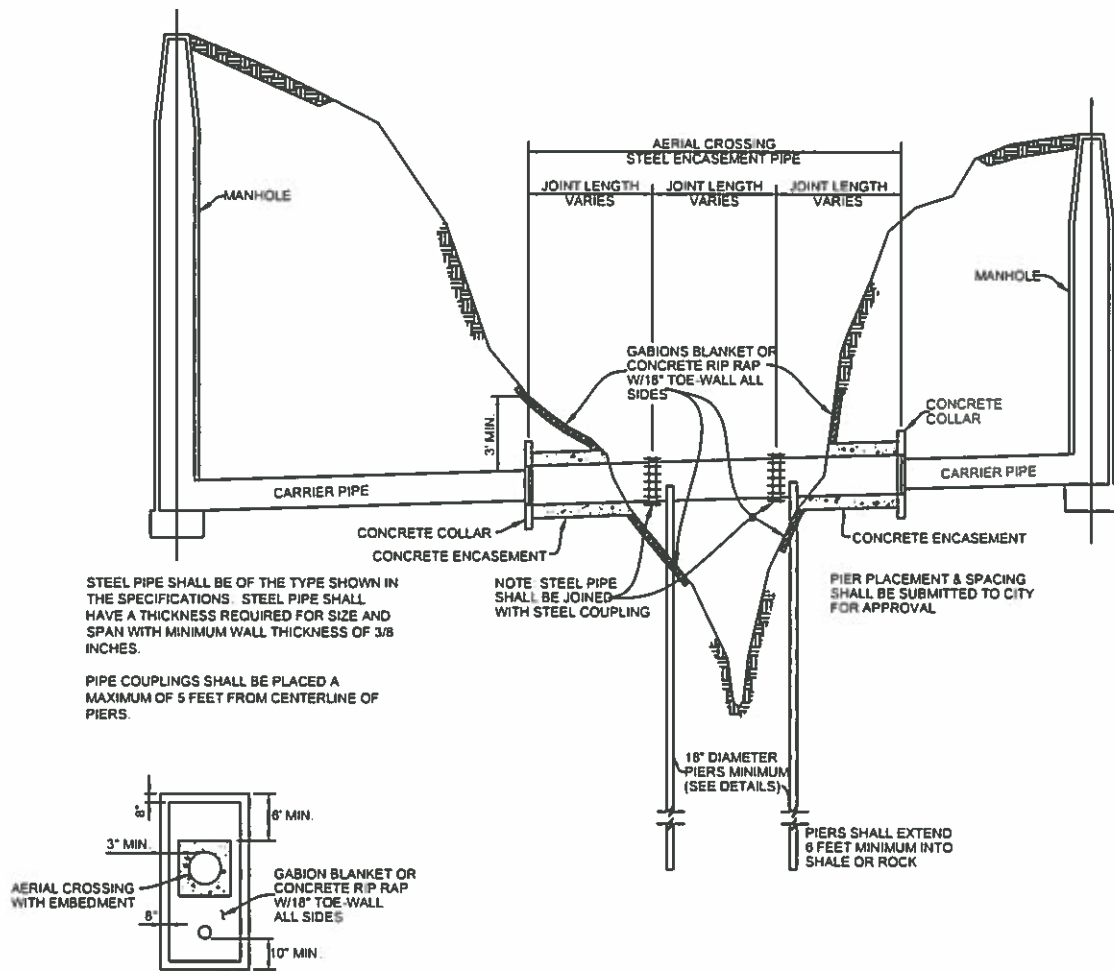
STANDARD CONSTRUCTION DETAILS  
 FOR  
 CITY OF FARMERSVILLE  
 COLLIN COUNTY, TEXAS



**2" BURIED FLUSH VALVE ASSEMBLY**

DESIGNED: E.W.D.	DATE: 07-05-18
DRAWN: M.K.W. / DBI	REVISION: N/C





**BANK PROTECTION (TYP.)**

**AERIAL CROSSING**

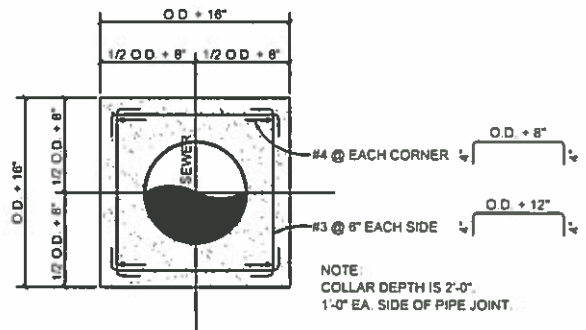
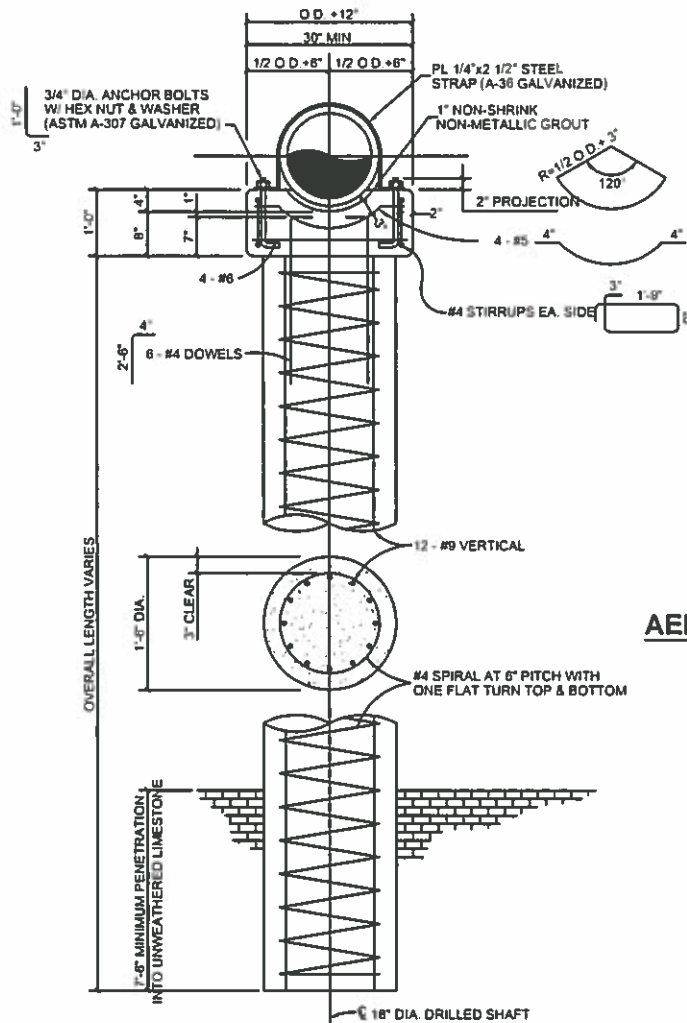
NOTE  
ENGINEERING DESIGN SHALL BE SUBMITTED TO CITY FOR APPROVAL  
FOR USE FOR EACH CROSSING. PIERS SHALL BE PLACED AT MAXIMUM  
SPAN DISTANCE AS DICTATED BY ENGINEER'S DESIGN.

STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS



**WASTEWATER AERIAL CROSSING**

DESIGNED: E.W.D. DATE: 07-05-16  
DRAWN: M.K.W. / DBI REVISION: N/C



**AERIAL CROSSING CONCRETE COLLAR**

**AERIAL CROSSING PIER & PIER CAP**

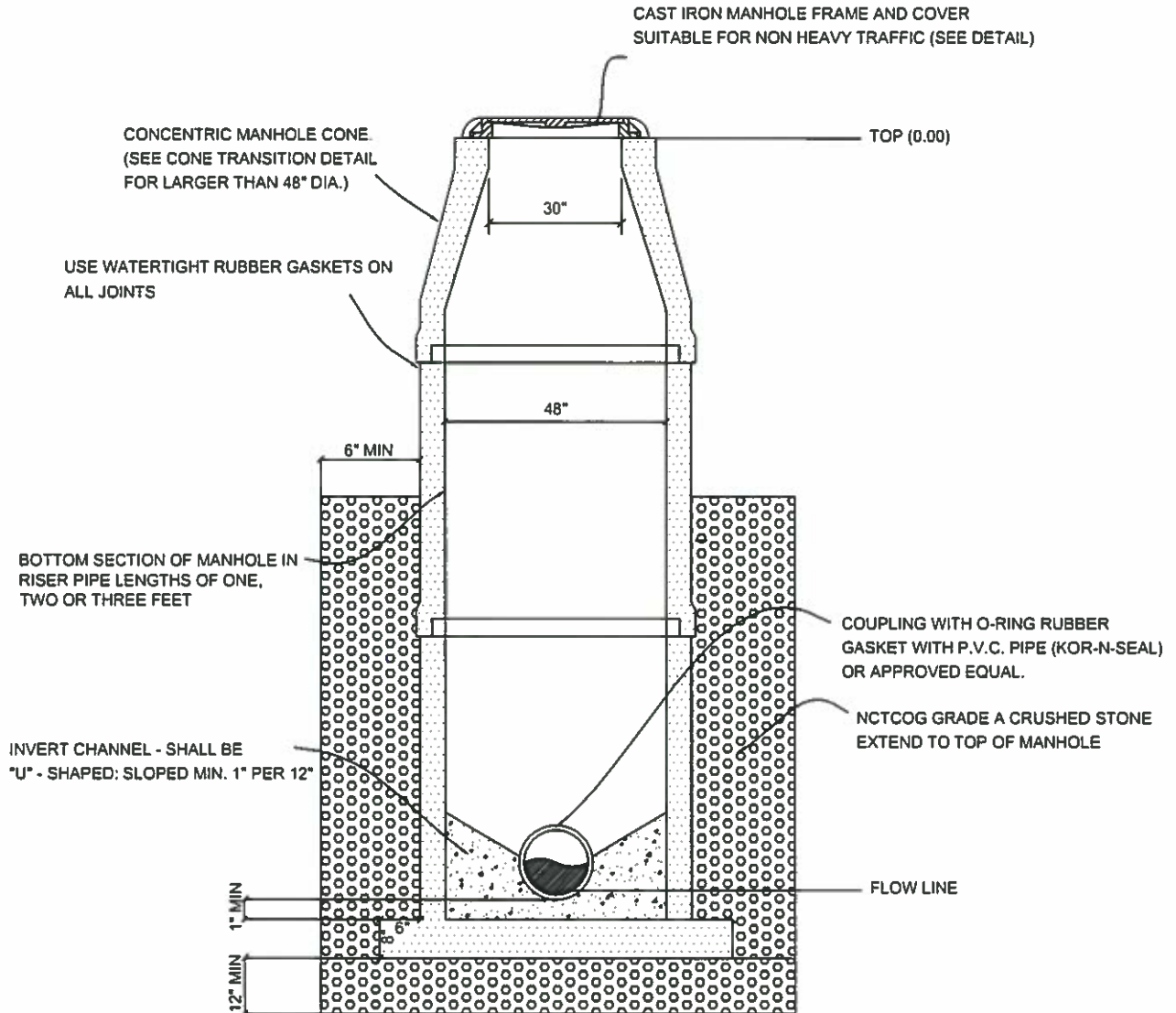
STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS



WASTEWATER AERIAL CROSSING

DESIGNED: E.W.D.  
DRAWN: M.K.W. / DBI

DATE: 07-05-16  
REVISION: N/C



## PRECAST CONCRETE MANHOLE

### NOTES:

1. FOR WETLAND, FLOODPLAIN, BELOW WATER TABLE, AND HIGH WATER APPLICATIONS, ALL JOINTS ON OUTSIDE OF MANHOLE SHALL BE SEALED WITH AQUAGUARD SHRINK SEAL.
2. ALL JOINTS SHALL MEET ASTM C443.
3. ALL PRECAST COMPONENTS SHALL MEET ASTM C478.
4. LIFTING INSERTS SHALL BE PROVIDED.
5. PRECAST COMPONENTS SHALL BE FORTERRA BUILDING PRODUCTS OR APPROVED EQUAL.

STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS



PRECAST CONCRETE MANHOLE

DESIGNED: E.W.D.  
DRAWN: M.K.W. / DBI

DATE: 07-05-18  
REVISION: N/C

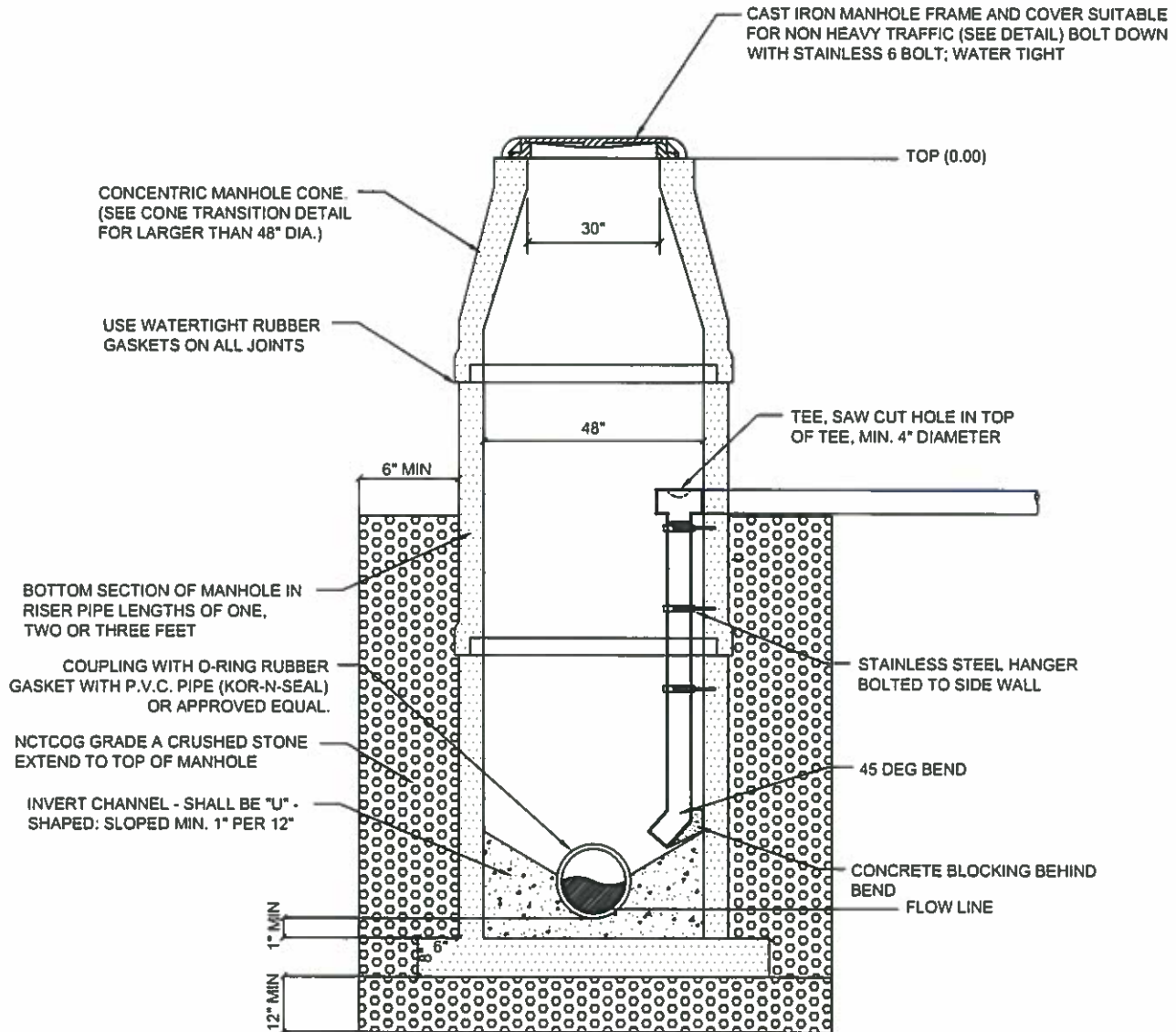
**NOTES:**

1. FOR WETLAND, FLOODPLAIN, BELOW WATER TABLE, AND HIGH WATER APPLICATIONS, ALL JOINTS ON OUTSIDE OF MANHOLE SHALL BE SEALED WITH AQUAGUARD SHRINK SEAL.
2. ALL JOINTS SHALL MEET ASTM C443.
3. ALL PRECAST COMPONENTS SHALL MEET ASTM C478.
4. LIFTING INSERTS SHALL BE PROVIDED.
5. PRECAST COMPONENTS SHALL BE FORTERRA BUILDING PRODUCTS OR APPROVED EQUAL.
6. PIPE DIAMETER TO BE THE SAME AS LINE CONSTRUCTION.
7. APPROVED PREFABRICATED RUNNER GASKET OR O-RING SHALL BE USED AT ALL JOINTS.
8. FOR MANHOLES IN PAVEMENT, A 6"x6" MIN. SIZE BLOCKOUT IS REQUIRED.
9. PIPE TO MANHOLE CONNECTORS SHALL BE KOR-N-SEAL OR APPROVED EQUAL.



**NOTES:**

1. BOLT SIZE: 3/8" DIA. LENGTH: NOT TO EXCEED 1" PAST ANCHOR WHEN INSTALLED.
2. TYPE: 304 OR 316 STAINLESS.
3. BOLT ANCHOR DEPTH: 2" MIN.; EPOXY SEALER NOT TO PROTRUDE THROUGH MANHOLE WALL.
4. ANCHOR SPACING: 4' MAX. (MIN. NUMBER OF ANCHORS - 2 PER DROP: 1 - 6" BELOW TEE, 1 - 6" ABOVE 45 DEG BEND AT TOP OF M.H.)
5. DROP PIPE TYPE: SDR-35 (BELL & SPIGOT).
6. BOTTOM BEND NOT TO BE GREATER THAN 45 DEG. BEND NOT TO BE MORE THAN 4" FROM BENCH OF MANHOLE.



**INTERNAL DROP MANHOLE**

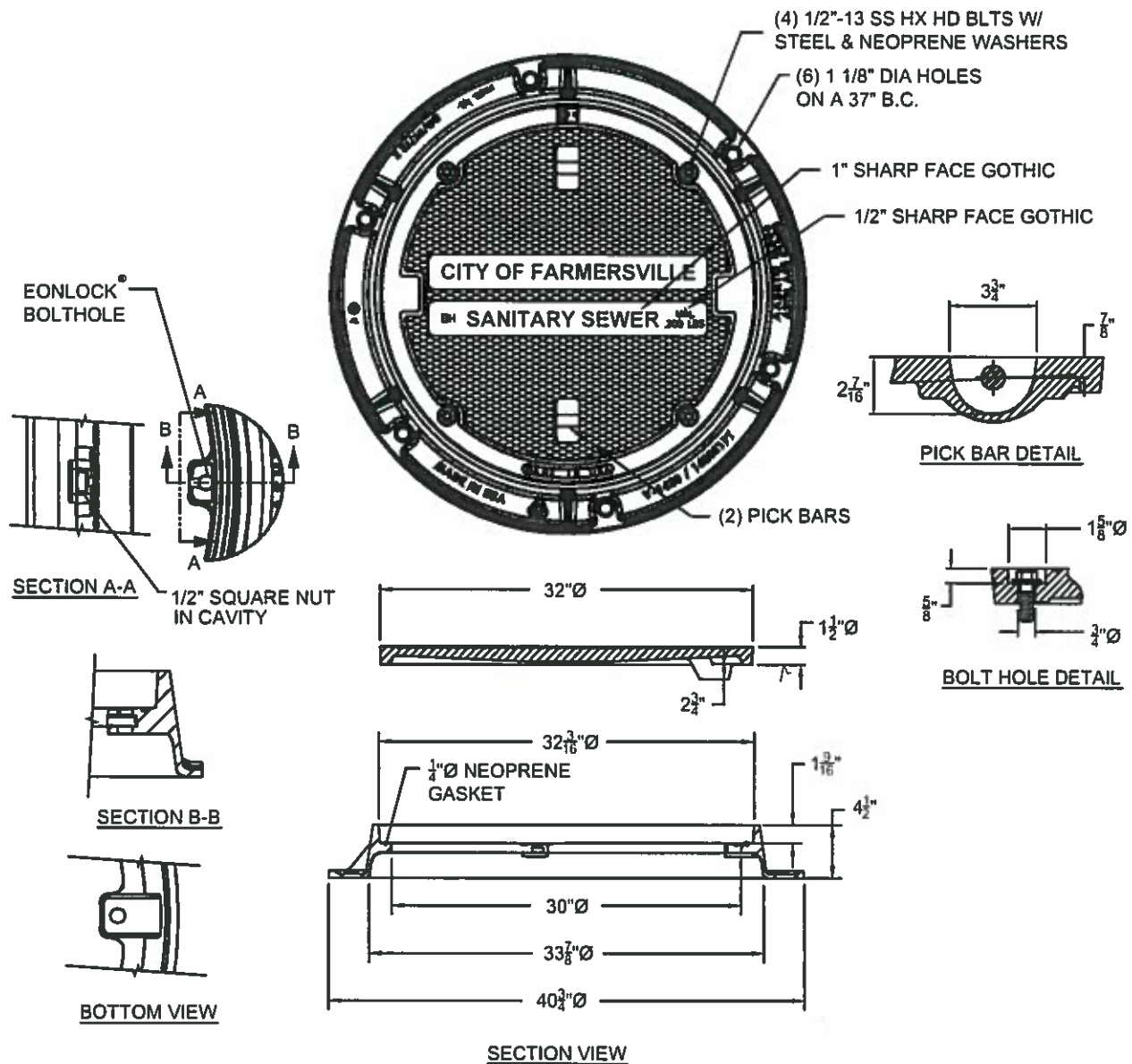
NO SCALE

STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS



INTERNAL DROP MANHOLE

DESIGNED: E.W.D. DATE: 07-05-16  
DRAWN: M.K.W. / DBI REVISION: N/C



### WATERTIGHT BOLTED MANHOLE RING AND COVER

WITH LOCKING DEVICE & PICK SLOTS

BASS AND HAYS FOUNDRY, INC.  
MANHOLE V-1420D WT

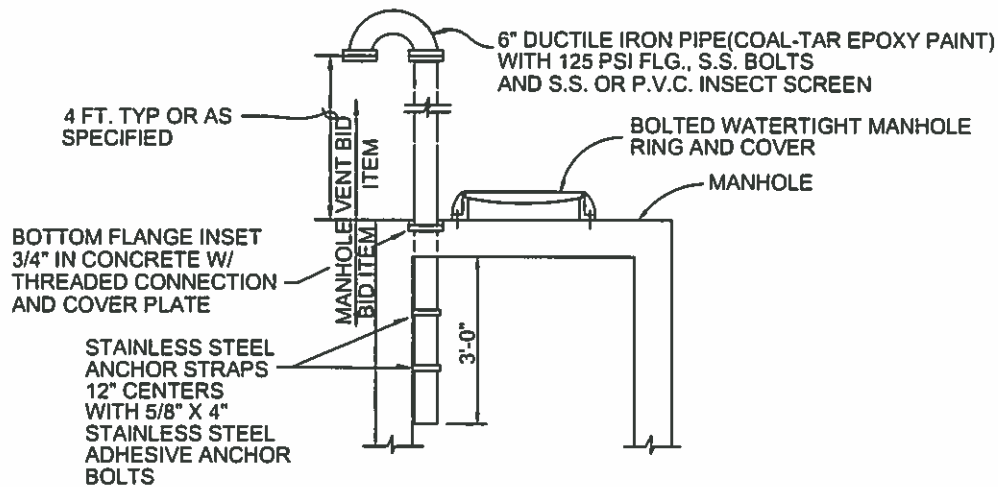
STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS



WATERTIGHT BOLTED MANHOLE RING & COVER

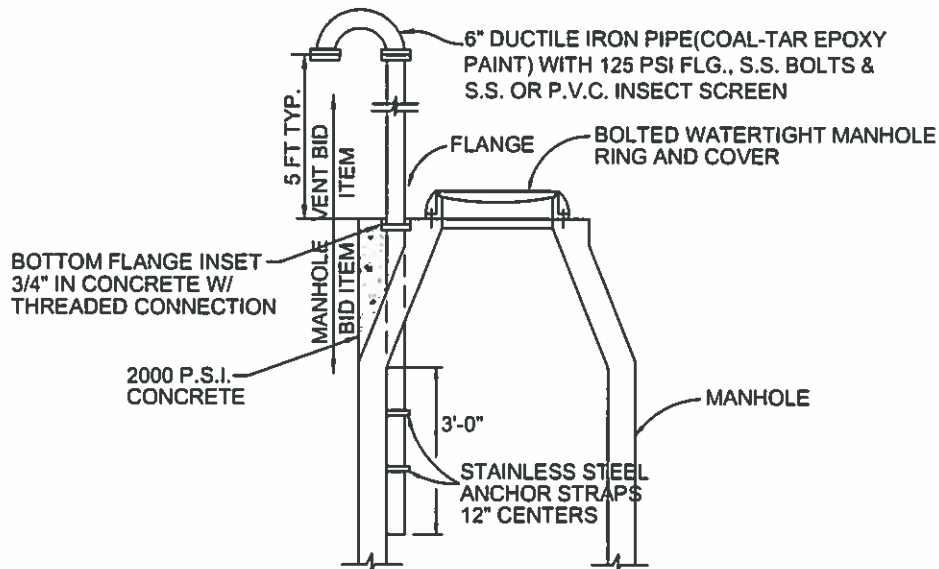
DESIGNED E.W.D.  
DRAWN M.K.W. / DBI

DATE 07-05-16  
REVISION N/C



## **FLAT TOP MANHOLE VENT**

NO SCALE



## **CONE TOP MANHOLE VENT**

NO SCALE

STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS

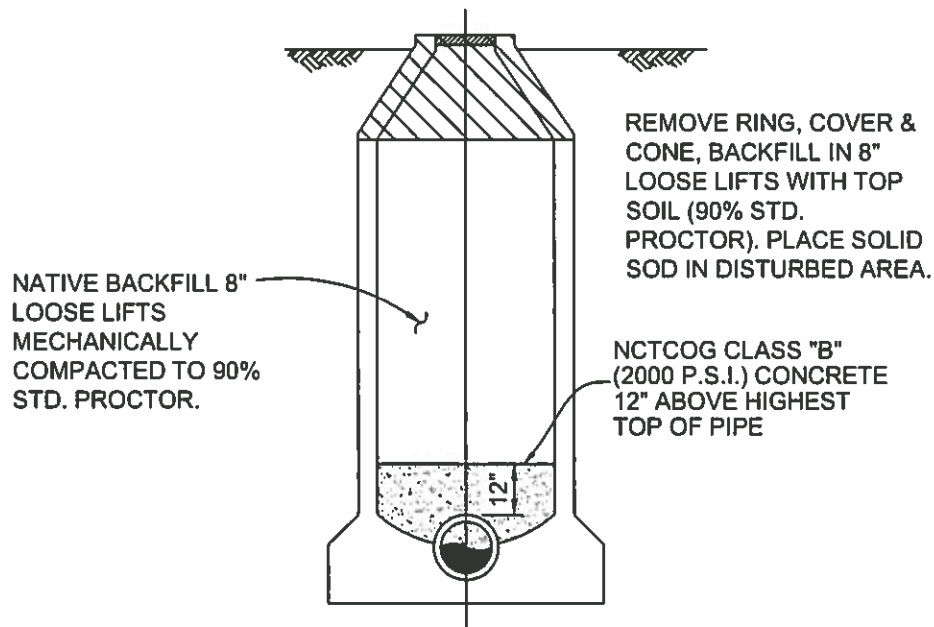


Farmersville

MANHOLE VENTS

DESIGNED E.W.D.  
DRAWN M.K.W. / DBI

DATE 07-05-18  
REVISION N/C



## **MANHOLE ABANDONMENT**

OUTSIDE PAVEMENT AREA

MONOLITHIC CONCRETE PAVEMENT AROUND MANHOLE SAME THICKNESS AS STREET . BLOCKOUTS SHALL BE MINIMUM 12" THICK (SEE DETAIL THIS SHEET).

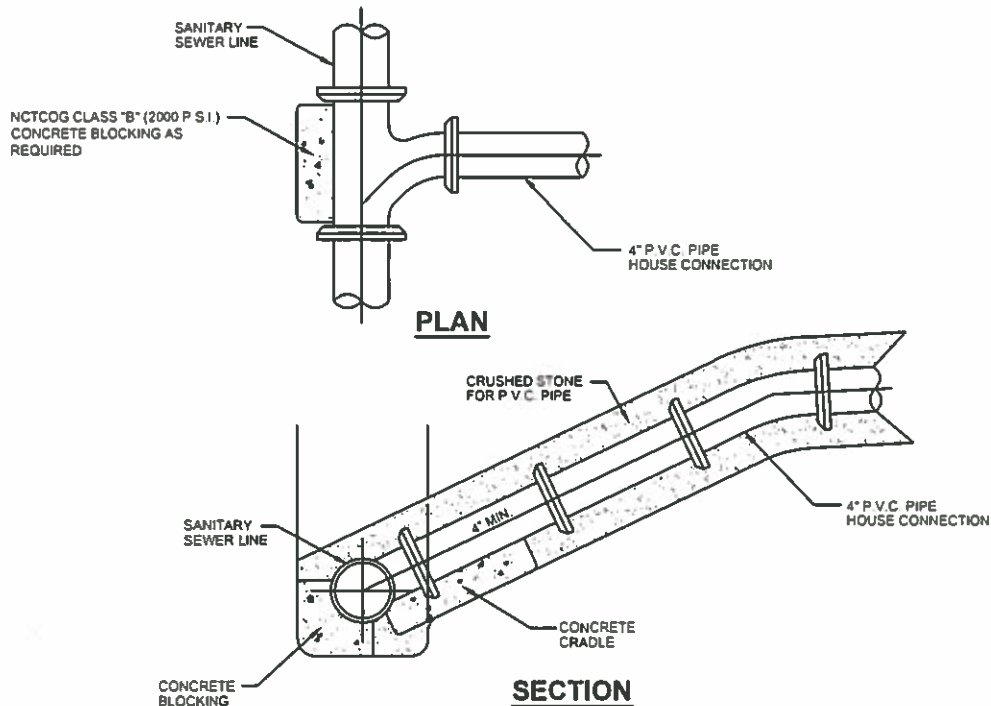
STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS



**MANHOLE ABANDONMENT**

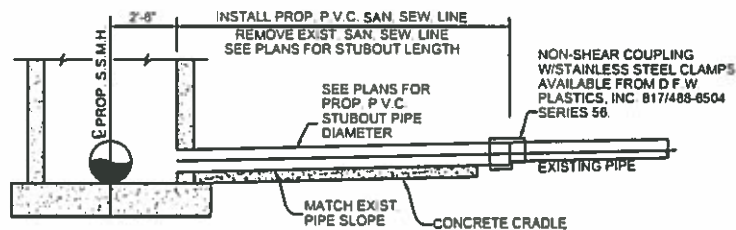
DESIGNED E.W.D.  
DRAWN M.K.W. / DBI

DATE 07-05-18  
REVISION N/C



### HOUSE SERVICE CONNECTION

SANITARY SEWER CLEANOUT BOOTS SHALL BE BASS & HAYS # 339 OR APPROVED EQUAL. 4" SERVICE LINE SHALL BE SDR26.



NO SCALE

NOTE: MATCH SOFFITS UPSTREAM OF MANHOLE  
MATCH FLOW LINES DOWNSTREAM OF MANHOLE

STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS



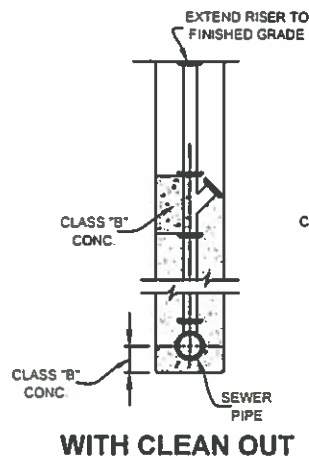
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SANITARY SEWER CONNECTIONS

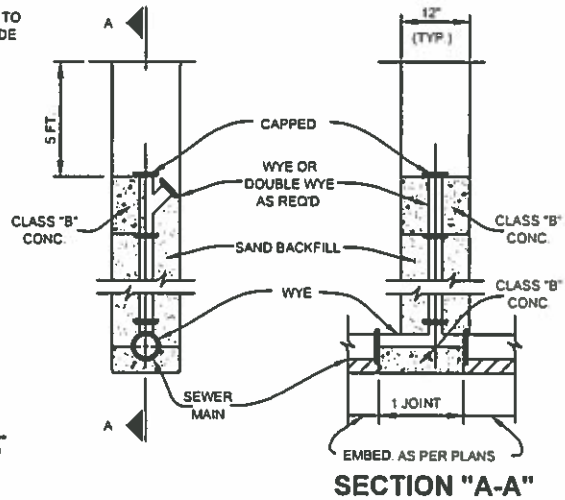
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DRAWN: M.K.W. / DBI

DATE: 07-05-18  
REVISION: N/C



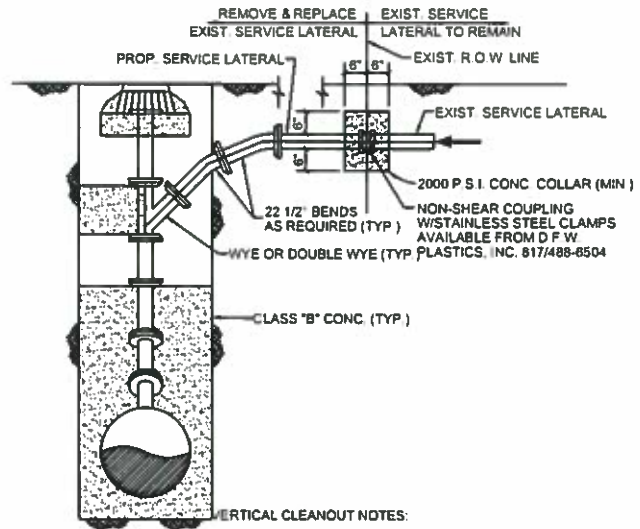
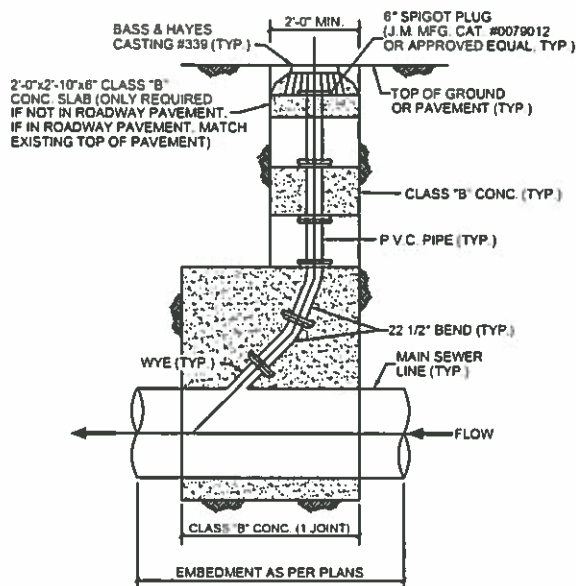


**WITH CLEAN OUT**



**SECTION "A-A"**

### DEEP CUT CLEANOUT



#### **VERTICAL CLEANOUT NOTES:**

- 1 CLASS "B" CONCRETE (NCTCOG ITEM 7.4.5)  
2000 P.S.I. COMP. STRENGTH AT 28 DAYS  
MIN. 4 SACK OF CEMENT PER C.Y.  
MAX. W/C = 8.0  
COARSE AGG 1-2-3
- 2 ALL WYES, STACKS AND PIPE SERVICE CONNECTIONS SHALL BE P.V.C. SDR-35.

### VERTICAL CLEANOUT CONNECTION

(CONNECTION, WYE, CONCRETE, BENDS, CASTING, ETC. ALL SUBSIDIARY TO CLEANOUT)

STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS

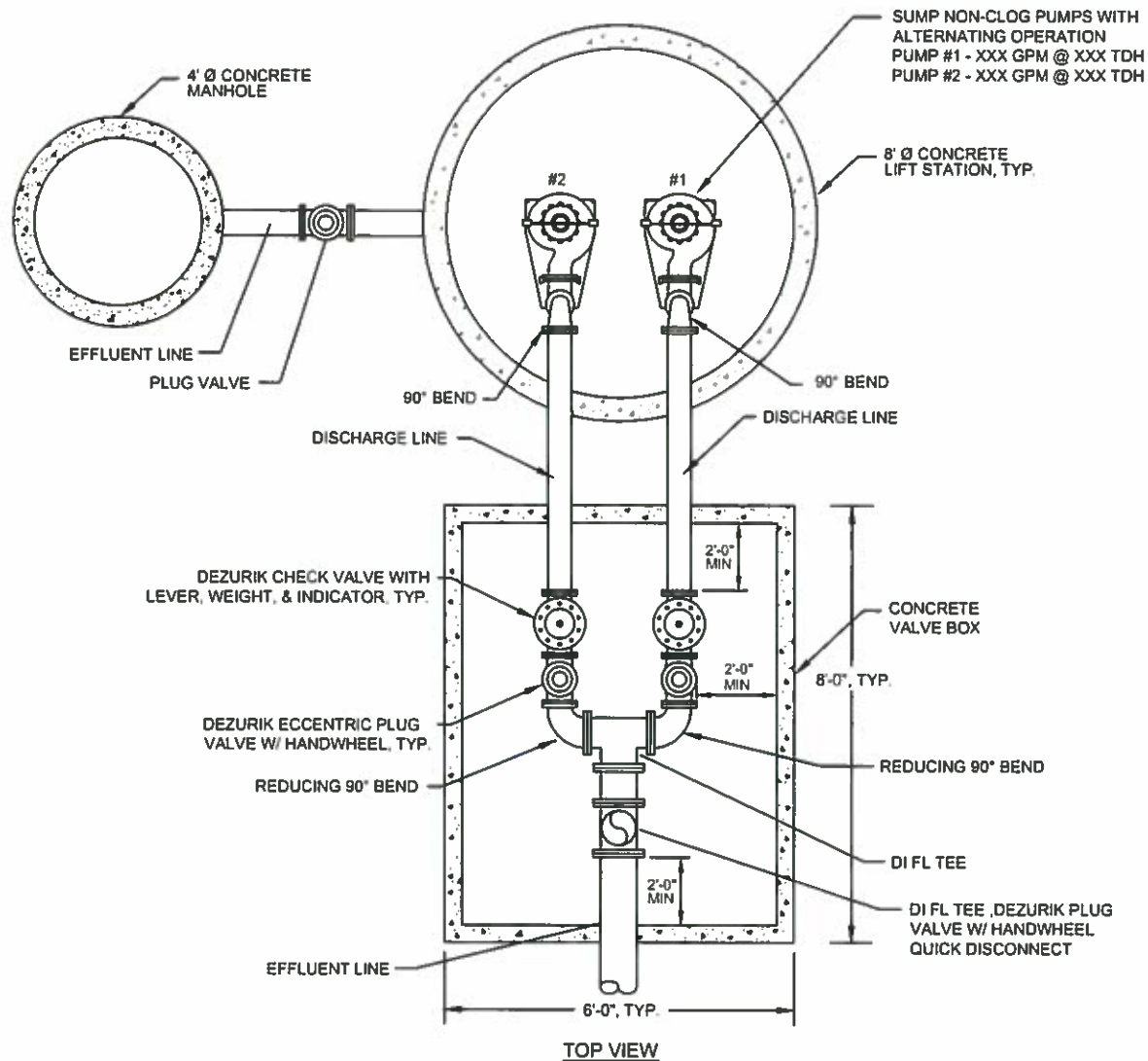


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### **SANITARY SEWER CLEANOUTS**

DESIGNED: E.W.D.  
DRAWN: M.K.W. / DBI

DATE: 07-05-18  
REVISION: N/C



## UNDERGROUND LIFT STATION DETAIL

### NOT TO SCALE

#### GENERAL NOTES:

1. BACK-UP POWER IS REQUIRED FOR ALL LIFT STATIONS.
2. ALL LIFT STATIONS MUST HAVE CONCRETE ACCESS DRIVE.
3. PUMPS SHALL BE THREE PHASE, 230 VOLT.
4. ALL ELEVATIONS WILL BE VERIFIED BY OWNER.
5. COMPACT BACKFILL ON ALL SIDES AT ONE TIME IN LIFTS NOT MORE THAN 12".
6. SCADA TELEMETRY IS REQUIRED FOR ALL LIFT STATIONS.
7. ALL FITTINGS SHALL BE COATED WITH PROTECTO 401.
8. PUMPS SHALL BE HCP, CONTACT ART JOHNSON @ NORTH TEXAS PUMP CO., INC. 972-562-3880

STANDARD CONSTRUCTION DETAILS  
FOR  
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COLLIN COUNTY, TEXAS

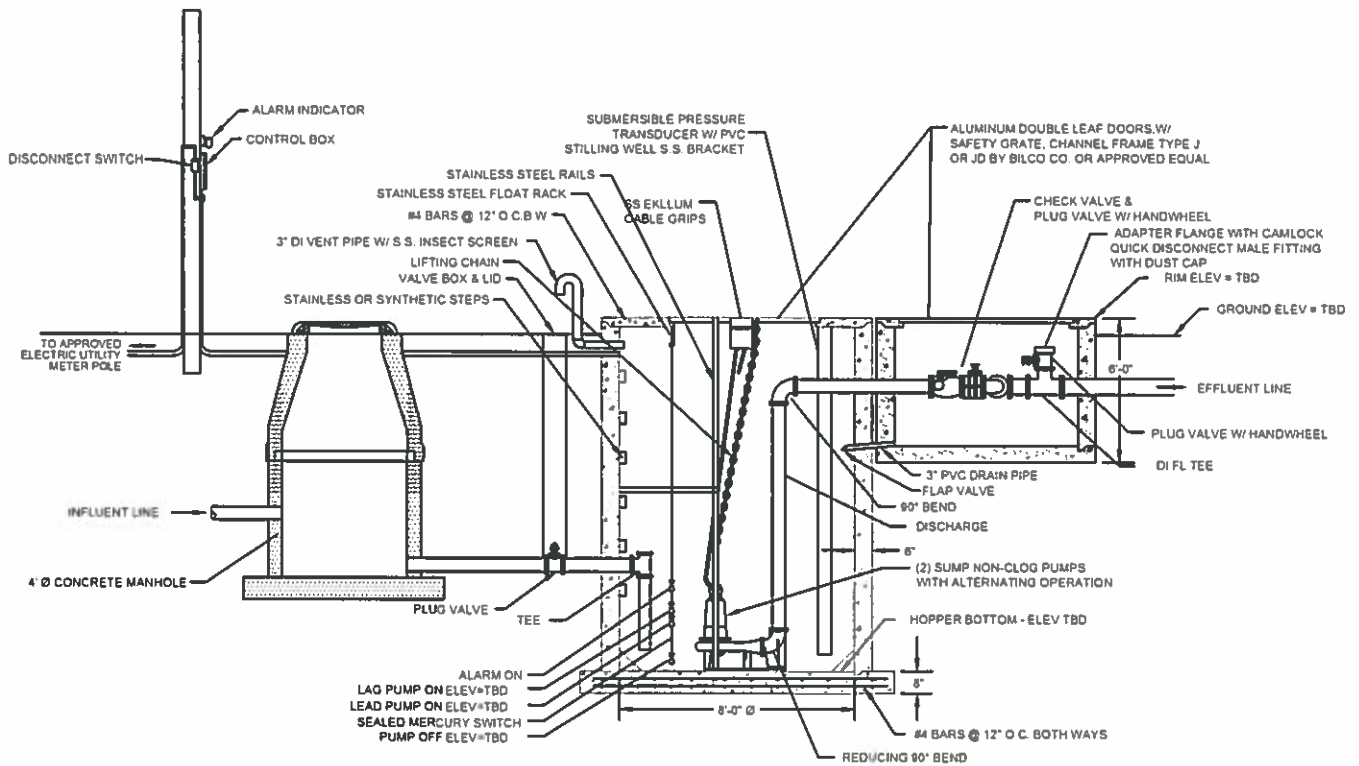


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UNDERGROUND LIFT STATION-1

DESIGNED E.W.D  
DRAWN M.K.W. / DBI

DATE: 07-05-18  
REVISION: N/C



**UNDERGROUND LIFT STATION DETAIL**  
**NOT TO SCALE**

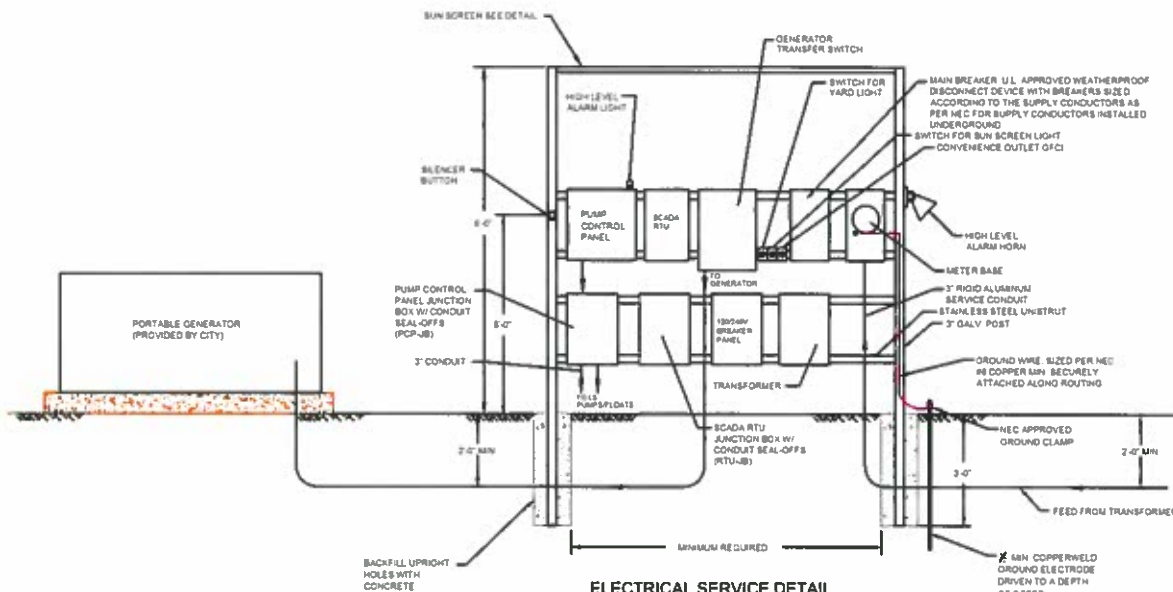
STANDARD CONSTRUCTION DETAILS  
 FOR  
 CITY OF FARMERSVILLE  
 COLLIN COUNTY, TEXAS



UNDERGROUND LIFT STATION-2

DESIGNED: E.W.D.  
 DRAWN: M.K.W. / DBI

DATE: 07-05-18  
 REVISION: N/C



# **ELECTRICAL SERVICE DETAIL** **NOT TO SCALE**

- NOTES
1. INSTALLATION SHALL MEET ALL REQUIREMENTS OF THE NATIONAL ELECTRIC CODE AND ANY STATE AND MUNICIPAL ORDINANCES.
  2. INSTALLATION SHALL PASS THE REQUIRED INSPECTION BY THE GOVERNING AUTHORITY.
  3. ELECTRIC SERVICE AND METER WILL BE INSTALLED TO MEET ALL REQUIREMENTS OF ELECTRIC UTILITY (ECON).
  4. SCADA ANTENNA REQUIRED FOR RADIO COMMUNICATION FOR RTU.
  5. CONDUIT SEAL OFF'S SHALL BE CROUSE-HINDS ETS BEALONG FITTINGS OR APPROVED EQUAL.

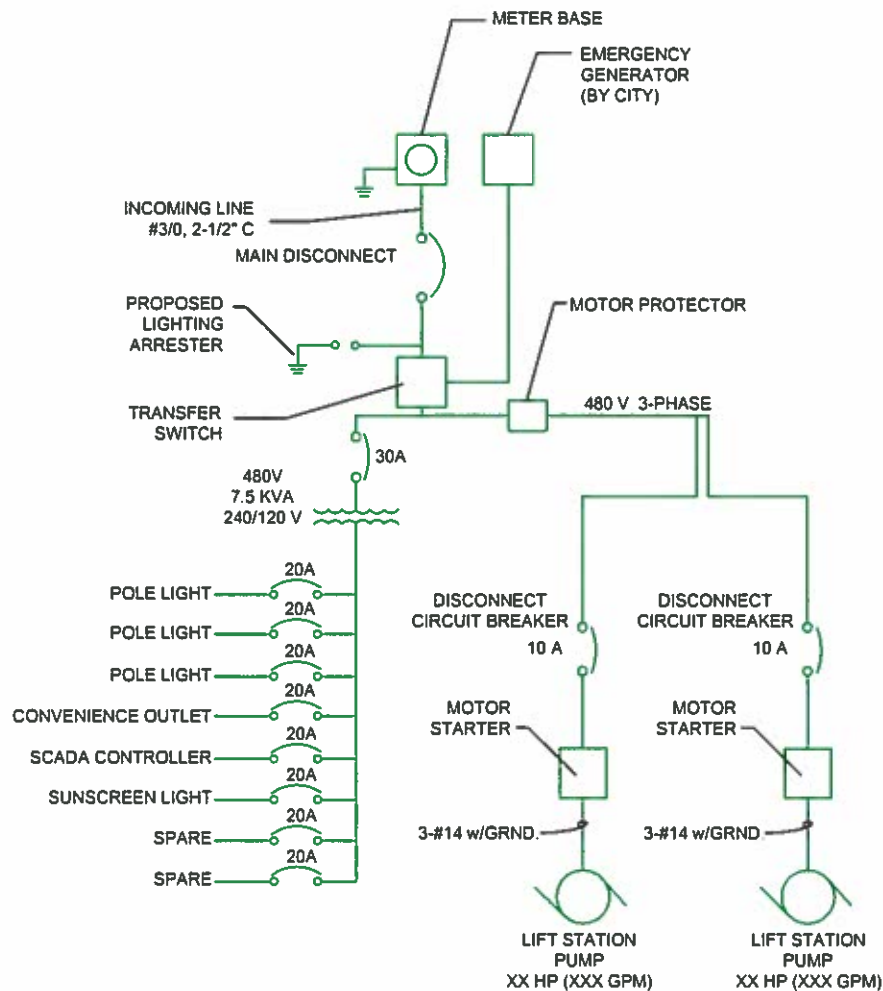


STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS

LIFT STATION ELECTRICAL SERVICE-1

WW-14

DATE: 07-28-18  
DRAWN: M.K.W./J.C.B.



## LIFT STATION ELECTRICAL SERVICE DETAIL

NOT TO SCALE

### NOTES:

1. ELECTRICAL PANEL AND MOTOR CONTROLS SHALL BE MOUNTED ON STAINLESS STEEL UNISTRUT.
2. SHIELDED SIGNAL WIRING AND POWER WIRING MUST BE RUN IN SEPARATE CONDUITS.
3. CONTRACTOR WILL COORDINATE UTILITY SERVICE CONNECTIONS WITH ELECTRICAL UTILITY PROVIDER. APPLICATION FOR ELECTRICAL WILL BE MADE BY THE DISTRICT.
4. CONTRACTOR SHALL MEET ALL NATIONAL AND LOCAL ELECTRICAL CODES.

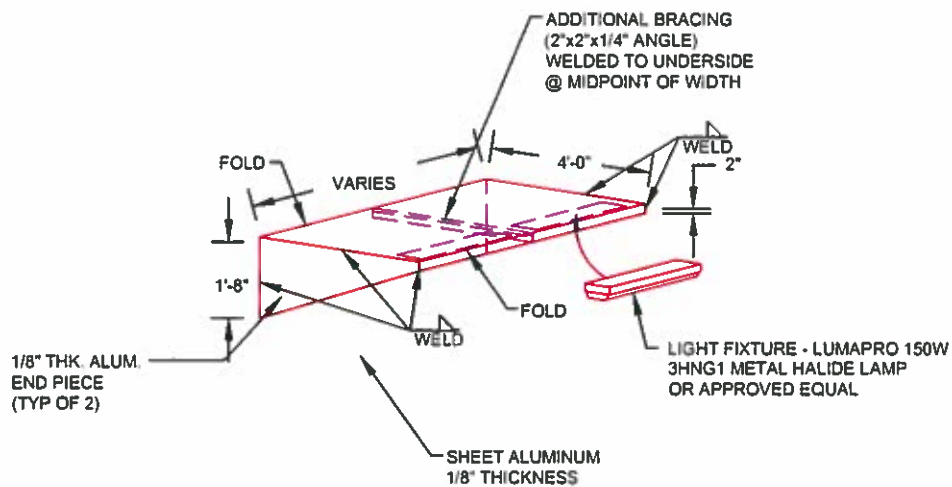
STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS



LIFT STATION ELECTRICAL SERVICE-2

DESIGNED: E.W.D.  
DRAWN: M.K.W. / DBI

DATE: 07-05-16  
REVISION: N/C



### SUN SCREEN DETAIL

NOT TO SCALE

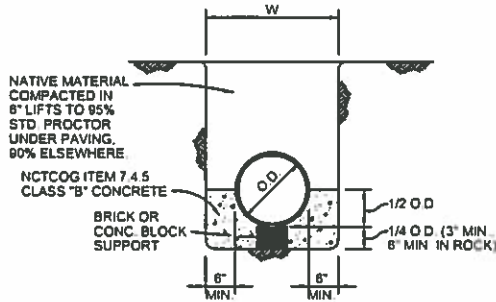
NOTE: SUN SCREEN AND VERTICAL SUPPORTS ARE DESIGNED TO WITHSTAND 90 MPH WIND (3-SECOND GUST) AND 75 MPH SUSTAINED WIND SPEED

STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS



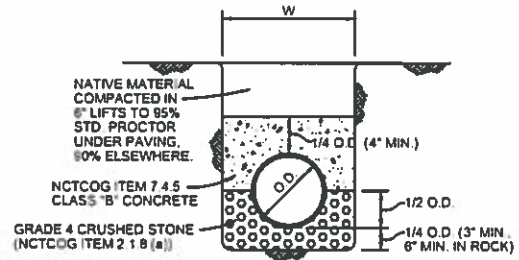
LIFT STATION SUN SCREEN

DESIGNED: E.W.D. DATE: 07-05-18  
DRAWN: M.K.W. / DBI REVISION: N/C



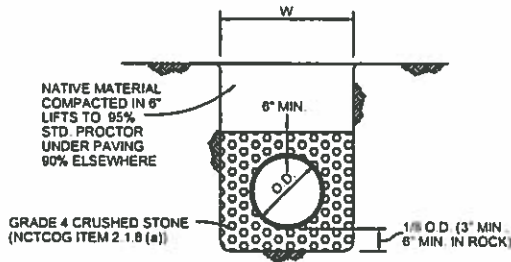
### **CLASS A EMBEDMENT**

CONCRETE CRADLE



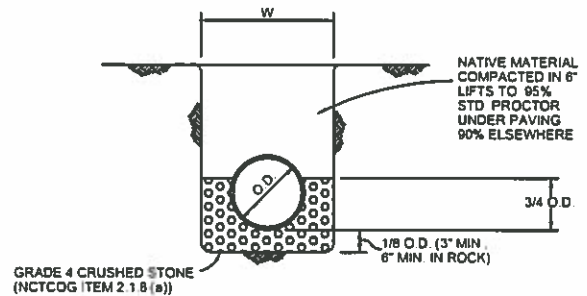
### **CLASS A-1 EMBEDMENT**

CONCRETE CAP



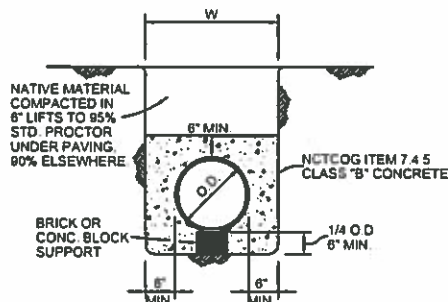
### **CLASS B+ EMBEDMENT**

STD PVC WATER



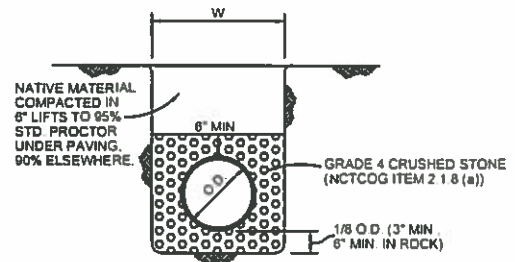
### **CLASS C EMBEDMENT**

STD DUCTILE IRON WATER OR SEWER  
STD R.C.C.P. WATER  
STD STORM SEWER



### **CLASS G EMBEDMENT**

CONCRETE ENCASEMENT



### **CLASS H EMBEDMENT**

PVC PIPE ONLY  
STD PVC SEWER

STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS

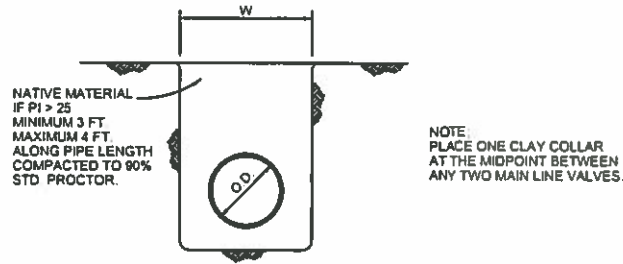


Farmersville

EMBEDMENT

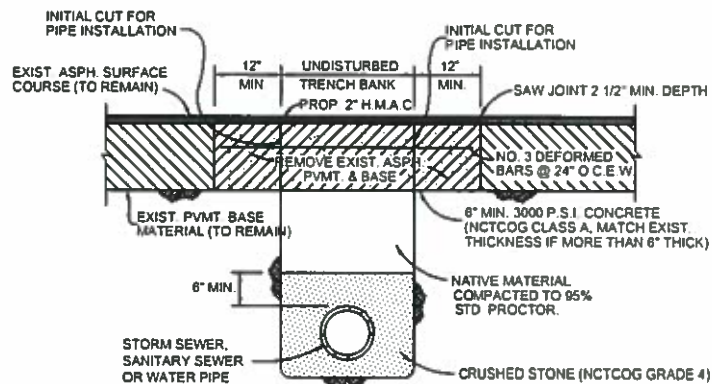
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DATE: 07-05-16  
REVISION: N/C



## SEEPAGE BARRIER/CLAY COLLAR

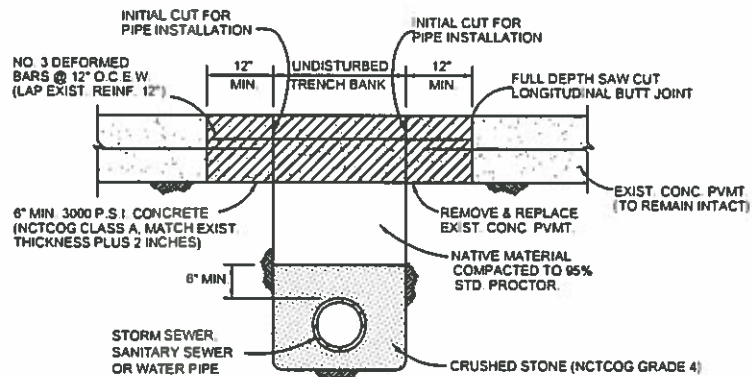
WATER MAINS



## ASPHALT STREET OR DRIVEWAY REPAIR

### GRADE 4 CRUSHED STONE GRADATION

SIEVE SIZE	% RETAINED
1-1/2 INCH	0
1 INCH	0-5
1/2 INCH	40-75
NO. 4	90-100
NO. 8	95-100



## CONCRETE STREET OR DRIVEWAY REPAIR

STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS



EMBEDMENT

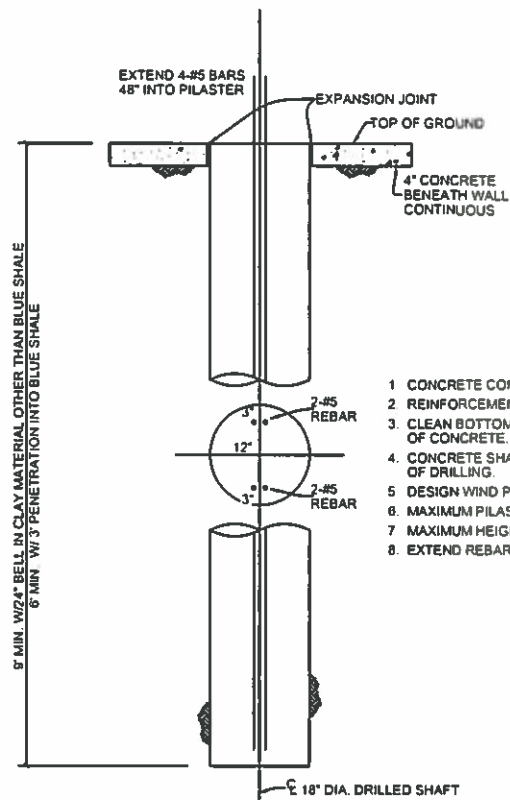
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DRAWN M.K.W./D.B.I.

DATE 07-05-16  
REVISION N/C





WALL-04



1. CONCRETE COMP. STRENGTH-4000 P.S.I
2. REINFORCEMENT STEEL - ASTM A815 - GR 60
3. CLEAN BOTTOM OF HOLE PRIOR TO PLACEMENT OF CONCRETE.
4. CONCRETE SHALL BE PLACED WITHIN 8 HOURS OF DRILLING.
5. DESIGN WIND PRESSURE - 20 PSF.
6. MAXIMUM PILASTER SPACING - 10'-0"
7. MAXIMUM HEIGHT OF WALL - 6'-0"
8. EXTEND REBAR 48" INTO PILASTER AND COLUMN

**PIER DETAIL**

WALL-02

STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS

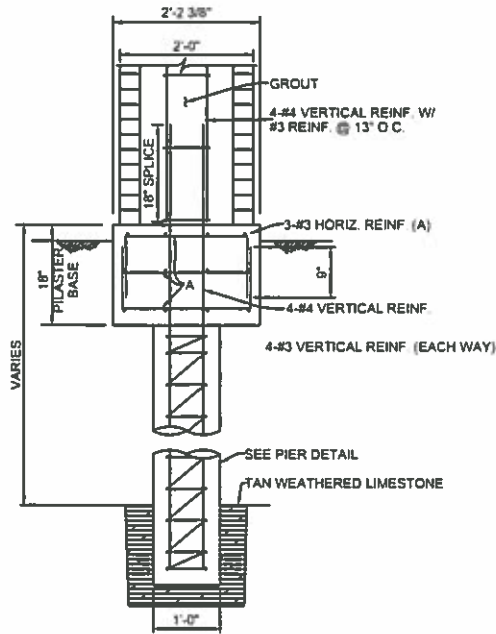


Farmersville

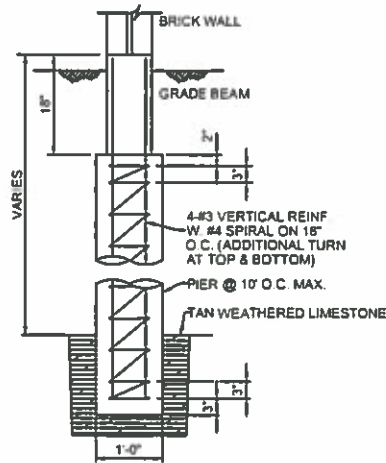
PIER DETAIL

DESIGNED: E.W.D.  
DRAWN: M.K.W. / DBI

DATE: 07-05-16  
REVISION: N/C



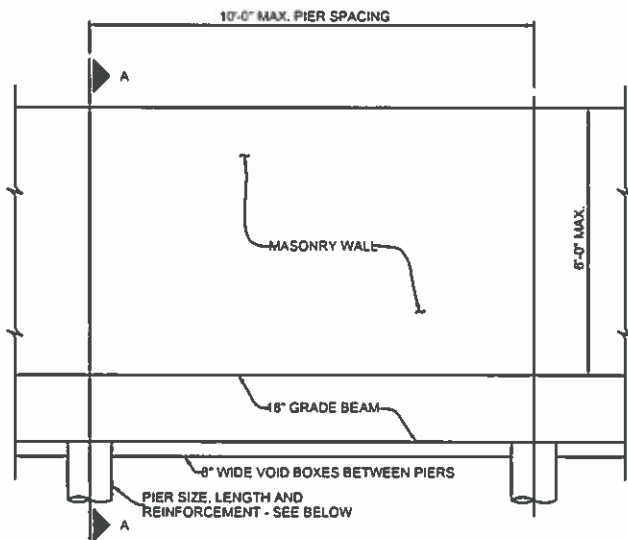
**COLUMN SECTION**



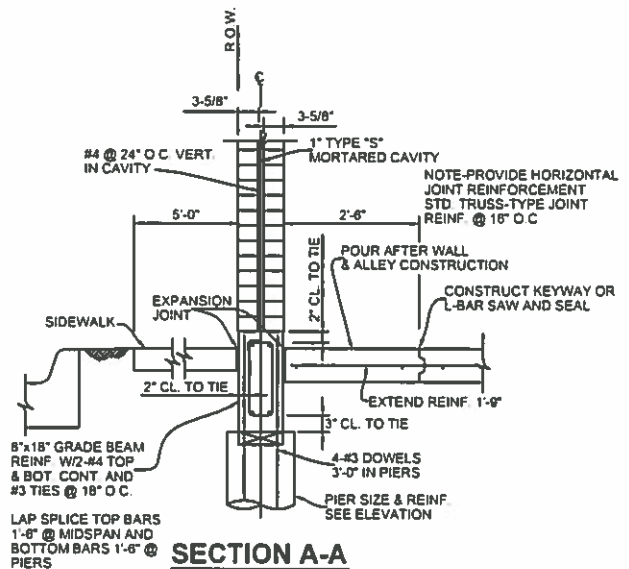
**PIER DETAIL**

**GENERAL NOTES**

1. CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 3000 P.S.I. AT 28 DAYS
2. REINFORCEMENT - ASTM A 36
3. MASONRY - COMPRESSIVE STRENGTH SHALL BE AS PRESCRIBED IN ITEM 2 3 8 SPECIAL PROVISIONS
4. WIND LOAD - 20 P.S.F.
5. PIER BEARING STRESSES - SEE BRICK SCREENING WALL NOTES.
6. MORTAR - TYPE "S"
7. PROVIDE CONTROL JOINTS AT 50 FT.
8. PROVIDE EXPANSION JOINTS AT 200 FT. CENTER MAXIMUM.
9. PROVIDE MIN. 6" FT. W/ 24" DIA. BELL IN CLAY OR OTHER MATERIAL EXCEPT BLUE SHALE. 6" MIN. WITH 3" MIN. INTO BLUE SHALE
10. ALL EXPOSED CONCRETE SHALL BE RUBBED FINISHED SURFACE
11. SIDEWALKS ADJACENT TO WALLS MUST BE 5'-0" MIN. WIDTH FROM ALL PORTIONS OF THE WALL (INCLUDING PILASTERS, COLUMNS, ETC.)
12. MAX. PILASTER SPACING 40 FT
13. WALLS SHALL NOT BE PLACED IN THE VISIBILITY EASEMENT OR STREET R.O.W.
14. THE WALL SHALL BE A MINIMUM OF SIX FEET IN HEIGHT AS MEASURED FROM THE NEAREST ALLEY EDGE OR SIDEWALK GRADE, WHICHEVER IS THE HIGHER. THE COLOR OF THE WALL SHALL BE LIMITED TO EARTH-TONE COLORS, EXCLUDING GRAY, GREEN AND WHITE. THE COLOR OF THE WALL SHALL BE UNIFORM ON EACH SIDE OF A THOROUGHFARE FOR THE ENTIRE LENGTH BETWEEN INTERSECTING THOROUGHFARES, UNLESS OTHERWISE APPROVED BY THE ENGINEERING DEPARTMENT. THE FINISH OF THE WALL SHALL BE CONSISTENT ON ALL SURFACES.
15. IF WROUGHT IRON FENCING IS TO BE UTILIZED ON REQUIRED SCREENING, ALL WROUGHT IRON MUST BE SOLID STOCK, NO TUBULAR STEEL WILL BE ALLOWED.



**ELEVATION**



**SECTION A-A**

**BRICK SCREENING WALL**

DRILLED PIERS 12" DIA. REINF. W/ 4-#5 VERT. & #4 REINF. @ 18" O.C. MINIMUM LENGTH OF PIER IS 6'-0". \*PIER BOTTOM MAY BE EITHER OF THE TWO ALTERNATES:

1. 12" DIA. SHAFT EMBEDDED MINIMUM 3'-0" INTO BLUE SHALE. RESULTING BEARING STRESS IS 8.0 KIPS PER SQUARE FOOT.
2. 12" DIA. SHAFT W/ 24" DIA. BELL IN CLAY. RESULTING BEARING STRESS IN 2.0 KIPS PER SQUARE FOOT. \* SEE GENERAL NO. 9

STANDARD CONSTRUCTION DETAILS  
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CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS

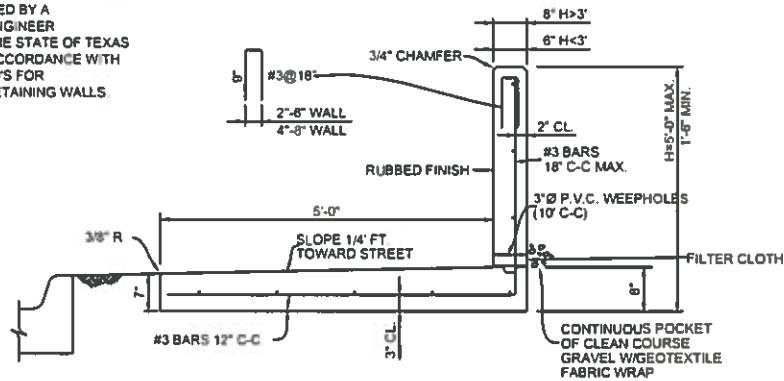


**PIER DETAILS**

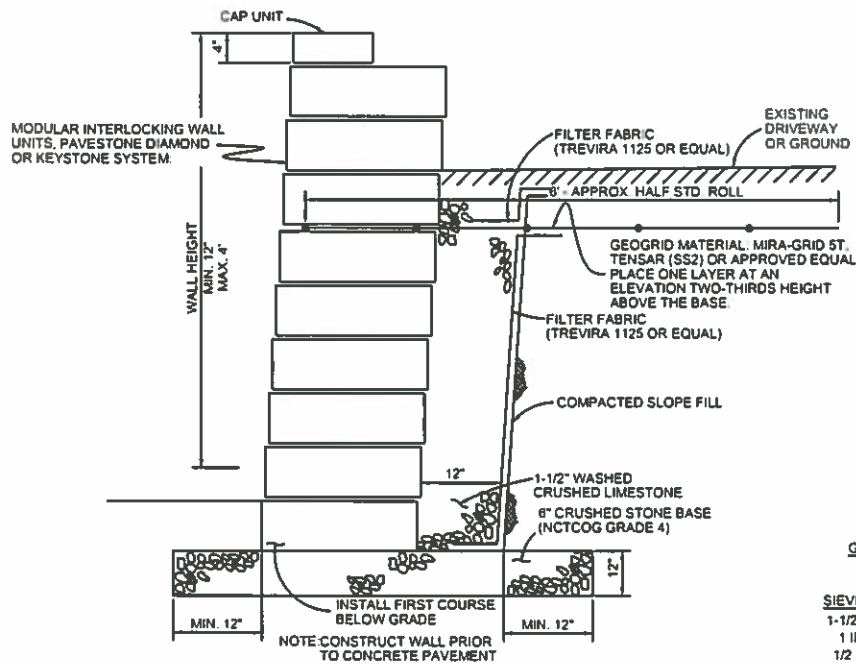
DESIGNED: E.W.D.  
DRAWN: M.K.W. / DBI

DATE: 07-05-18  
REVISION: N/C

NOTE:  
ALL RETAINING WALLS OVER 5FT HIGH  
SHALL BE DESIGNED BY A  
PROFESSIONAL ENGINEER  
REGISTERED IN THE STATE OF TEXAS  
OR SHALL BE IN ACCORDANCE WITH  
TXDOT STANDARD'S FOR  
CAST-IN-PLACE RETAINING WALLS.



**TYPE 6 RETAINING WALL**



**STONE RETAINING WALL**

NO SCALE

**GRADE 4 CRUSHED STONE  
GRADATION**

SIEVE SIZE	% RETAINED
1-1/2 INCH	0
1 INCH	0-5
1/2 INCH	40-75
NO 4	90-100
NO 8	95-100

STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS



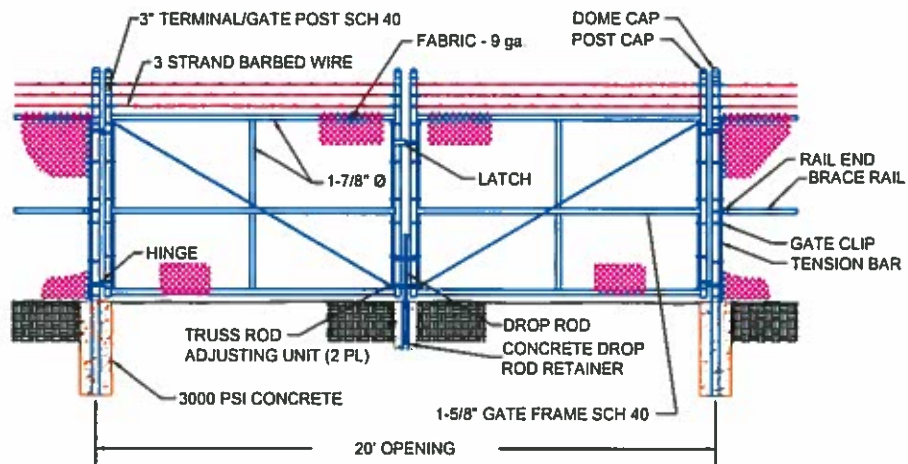
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RETAINING WALL

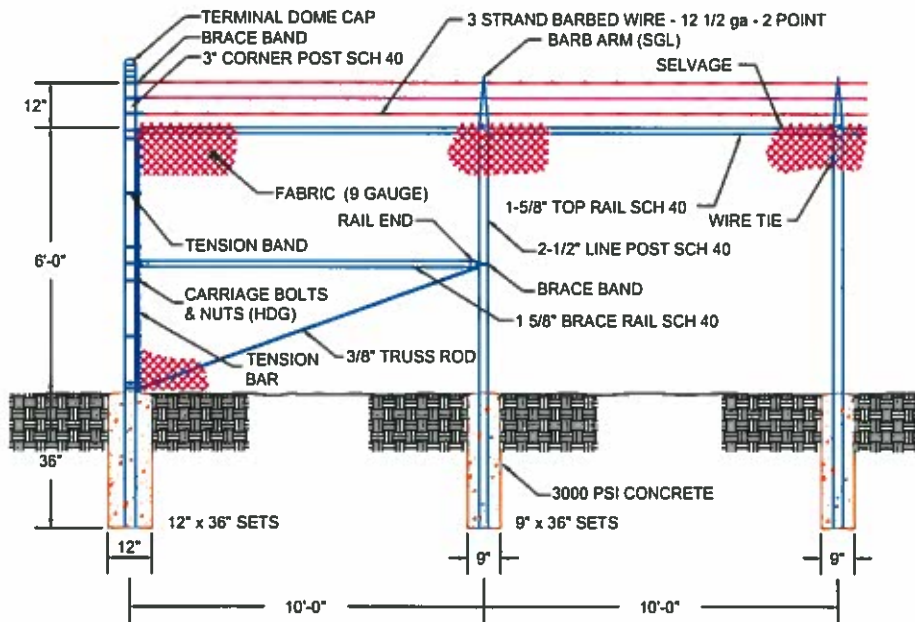
DESIGNED E.W.D  
DRAWN M.K.W / DBI

DATE 07-05-16  
REVISION N/C

WALL-04



**20'-0" WIDE DOUBLE GATE DETAIL**  
**NOT TO SCALE**



**CHAIN LINK FENCE DETAIL**  
**NOT TO SCALE**

STANDARD CONSTRUCTION DETAILS  
 FOR  
 CITY OF FARMERSVILLE  
 COLLIN COUNTY, TEXAS



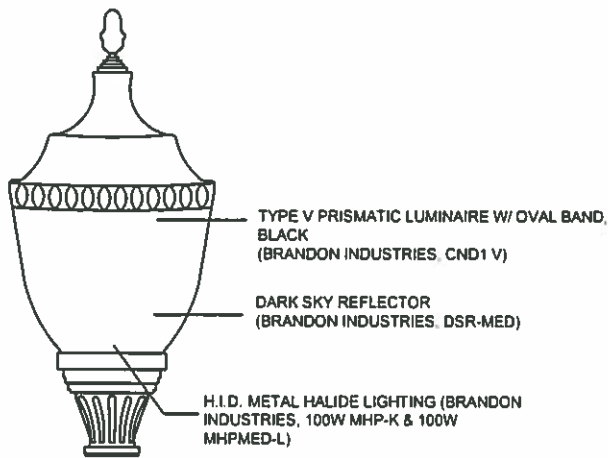
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CHAIN LINK FENCE & DOUBLE GATE

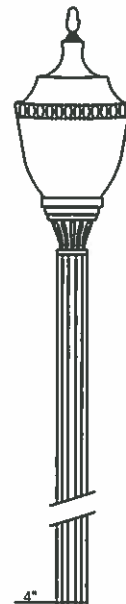
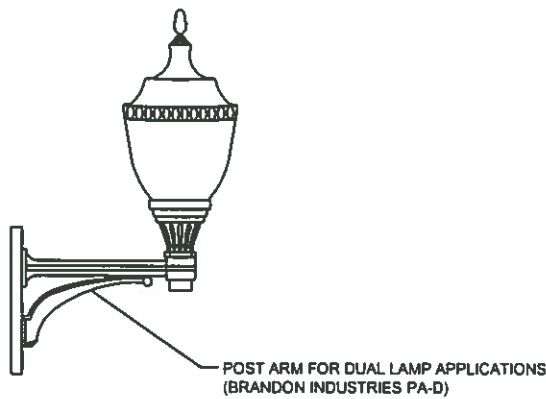
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DATE: 07-05-18  
 REVISION: N/C

BLDG-01



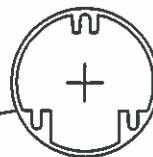
NTS



4"

POLE AND BASE, FLUTED, BLACK (BRANDON INDUSTRIES, CL82, 11'4")

17" CIRCULAR PATTERN REQUIRING (3) 3/4"-10 UNC, SS BOLT, NUT, WASHER, LOCKWASHER



NTS

INSTALL J-BOLT (3) 3/4"-10 UNC DRILLED EXPANSION BOLTS ACCEPTABLE AS APPROVED BY CITY



CIRCULAR CONCRETE BASE, 2000PSI

STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS



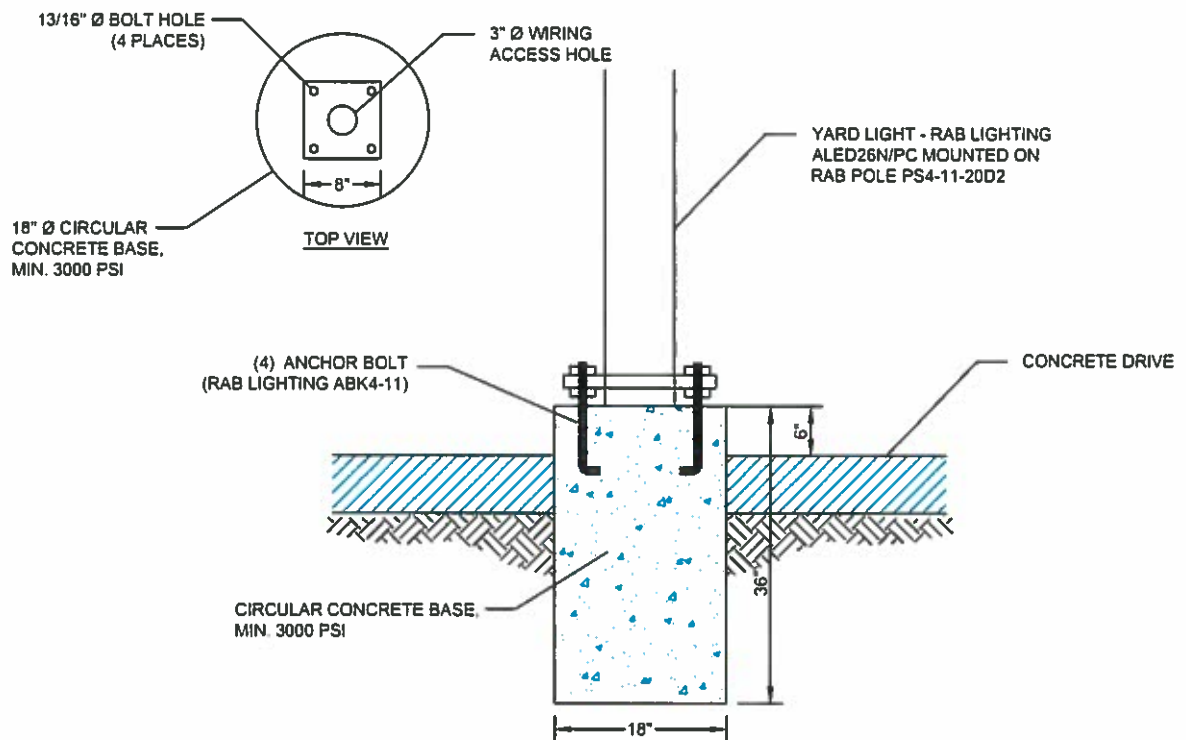
Farmersville

DECORATIVE LAMP

DESIGNED: E.W.D.  
DRAWN: M.K.W./D.B.

DATE: 07-05-16  
REVISION: N/C

EL-01



### YARD LIGHT POLE CONCRETE BASE

STANDARD CONSTRUCTION DETAILS  
FOR  
CITY OF FARMERSVILLE  
COLLIN COUNTY, TEXAS



LIFT STATION YARD LIGHT POLE CONCRETE BASE

DESIGNED: E.W.D.  
DRAWN: M.K.W. / DBI

DATE: 07-05-18  
REVISION: N/C

## **VI. Regular Agenda**



Agenda Section	Regular Agenda
Section Number	VI.A
Subject	Consider, discuss, and act upon a request from the Planning and Zoning Commission that City Council pursue the research and creation of a preservation ordinance for the City's historic downtown area
To	Mayor and Council Members
From	Ben White, City Manager
Date	July 12, 2016
Attachment(s)	NA
Related Link(s)	<a href="http://www.farmersvilletx.com/government/agendas_and_minutes/city_council_meetings.php">http://www.farmersvilletx.com/government/agendas_and_minutes/city_council_meetings.php</a>
Consideration and Discussion	City Council discussion as required.
Action	<ul style="list-style-type: none"> <li>• Motion/second/vote <ul style="list-style-type: none"> <li><input type="checkbox"/> Approve</li> <li><input type="checkbox"/> Approve with Updates</li> <li><input type="checkbox"/> Disapprove</li> </ul> </li> <li>• Motion/second/vote to continue to a later date. _____ <ul style="list-style-type: none"> <li><input type="checkbox"/> Approve</li> <li><input type="checkbox"/> Disapprove</li> </ul> </li> <li>• Move item to another agenda. _____</li> <li>• No motion, no action</li> </ul>

Agenda Section	Regular Agenda
Section Number	VI.B
Subject	Consider, discuss, and act upon the Caddo Waterline Connection and Water Purchase and Sale Agreement
To	Mayor and Council Members
From	Ben White, City Manager
Date	July 12, 2016
Attachment(s)	Agreement
Related Link(s)	<a href="http://www.farmersvilletx.com/government/agendas_and_minutes/city_council_meetings.php">http://www.farmersvilletx.com/government/agendas_and_minutes/city_council_meetings.php</a>
Consideration and Discussion	City Council discussion as required.
Action	<ul style="list-style-type: none"> <li>• Motion/second/vote <ul style="list-style-type: none"> <li><input type="checkbox"/> Approve</li> <li><input type="checkbox"/> Approve with Updates</li> <li><input type="checkbox"/> Disapprove</li> </ul> </li> <li>• Motion/second/vote to continue to a later date. _____ <ul style="list-style-type: none"> <li><input type="checkbox"/> Approve</li> <li><input type="checkbox"/> Disapprove</li> </ul> </li> <li>• Move item to another agenda. _____</li> <li>• No motion, no action</li> </ul>

## **WATERLINE CONNECTION AND WATER PURCHASE AND SALE AGREEMENT**

This Waterline Connection and Water Purchase and Sale Agreement (the "Agreement") is effective from and after the date of execution of the last party to sign this Agreement, by and between the **U.S. Army Corps of Engineers** ("Purchaser") and the **City of Farmersville, Texas** ("City"), a Type A general-law municipal corporation.

### **RECITALS**

WHEREAS, Purchaser is responsible for the management, maintenance and operation of Lavon Lake; and

WHEREAS, Purchaser's Mission regarding Lavon Lake is to supply water to the member cities of the North Texas Municipal Water District ("NTMWD"), to provide flood control to the Collin, Dallas and Rockwall County areas, and to offer some of the best fishing, camping and boating in Texas; and

WHEREAS, City is adjacent to Lavon Lake; and

WHEREAS, City owns and operates a water supply distribution system to serve customers within its certification area defined by CCN No. 13009; and

WHEREAS, City is a member of the NTMWD and has an agreement with NTMWD for a supply of potable water in sufficient quantities to serve existing customers of the City and also to supply water to Purchaser as specified herein; and

WHEREAS, Purchaser desires to extend a water line from the City's water supply distribution system and acquire potable water from the City with which to supply potable water to Purchaser's patrons in and about the vicinity of Caddo Park; and

WHEREAS, the City Council of the City of Farmersville has duly authorized the connection of a water supply line and the sale of potable water to the Purchaser as well as the execution of this Agreement by the City Manager, attested by the City Secretary; and

WHEREAS, the Purchaser has been duly authorized to order the connection of the water supply line and purchase potable water from the City and the execution of this Agreement;

NOW, THEREFORE, in consideration of the mutual covenants and agreements herein contained, the sufficiency of which are hereby acknowledged, and upon and subject to the terms and conditions hereinafter set forth, the parties hereto mutually undertake, promise, and agree as follows:

### **ARTICLE 1**

#### **CONNECTION OF WATER LINE**

Section 1.01 Connection of Water Line. City shall design and extend a minimum two-inch (2") diameter potable drinking water line, together with all necessary appurtenances thereto, from the current terminus of its water supply distribution system in a westerly direction

along the north side of U.S. Highway 380 ("US 380") to the entrance roadway serving Caddo Park and then north along the east side of the entrance road toward Caddo Park to a location situated just north of the gate to Caddo Park at which location a water meter and all appurtenances thereto will be installed by City. At no expense to the Purchaser for the upsizing of the waterline, the City may, in its sole discretion, design and extend up to an eight-inch (8") diameter water line rather than the aforesaid two-inch (2") diameter water line.

Section 1.02 Water Meter Installation.

City will install a water meter just inside the gate across the entry road extending into Caddo Park to which water meter the Purchaser may connect its service lines. The water meter will be equipped with a backflow prevention device and will be remotely monitored and read by City.

Section 1.03. Flush Valve.

City will install a flush valve that will keep the potable water transported within the extension from becoming stale at or before the water meter.

Section 1.04 Abandonment of Existing Water Line.

The existing water line that was disconnected in conjunction with the widening of US 380 shall be capped and abandoned in place.

Section 1.05 Easements.

Purchaser will provide City with any and all such easements and rights of access as may be necessary for the City to extend the water line and install the water meter and all necessary appurtenances thereto at no cost to City.

Section 1.06. Payment.

Purchaser shall, within thirty (30) days of being invoiced for such services reimburse the City for the costs to design and ultimately connect a two-inch diameter water line, water meter, flush valve and all appurtenances necessary thereto to extend potable drinking water service from the current terminus of City's water supply distribution system to serve Caddo Park as provided herein, above, and to abandon the existing water line in place. In the event City chooses to install an eight-inch diameter water line rather than a two-inch diameter water line, Purchaser shall only be obligated to pay the costs associated with the design, and installation of a two-inch diameter water line.

Section 1.07. Nonexclusive Use.

In the event City chooses to install an eight-inch diameter water line rather than a two-inch diameter water line, City shall have the right to serve additional customers from said water line extension notwithstanding the fact that Purchaser paid a portion of the cost to design and connect the water line extension to Caddo Park. The City's right to serve additional customers from the water line shall end at the boundary line for Caddo Park.

## **ARTICLE 2**

### **DELIVERY OF WATER**

**Section 2.01 Point of Delivery.** Purchaser's service line(s) will connect to the City's water meter that will be installed just inside the gate across the entry road extending into Caddo Park on the north side of US 380 (hereinafter referred to as the "Point of Delivery"). The Point of Delivery shall be equipped with a water meter, as noted herein, and appropriate backflow prevention device.

**Section 2.02 Delivery.**

(a) City will deliver potable water taken from NTMWD to Purchaser at (or through) the Point of Delivery; provided, however, such delivery is conditioned upon Purchaser: (i) allowing the City to maintain and provide for the inspection of the backflow prevention device at the Point of Delivery; (ii) reimbursing the City for its costs of design and ultimate connection of a two-inch diameter water line, water meter, flush valve and all appurtenances necessary thereto to extend potable drinking water service from the current terminus of City's water supply distribution system to serve Caddo Park within thirty (30) days after receipt of notice and invoice from the City; and (iii) complying with all applicable orders, rules, regulations, statutes and ordinances regarding delivery and protection of the public drinking water supply.

(b) The water to be delivered shall be out of the existing main into the line of the Purchaser at the pressure which is maintained in the water supply system of the City. It is hereby specifically agreed that the Purchaser may utilize the pressure which is maintained in the City's system for the movement of the water herein. Purchaser agrees to furnish, install, construct, maintain and operate, at its own cost and expense at the Point of Delivery, all equipment and facilities necessary to receive and take water from the City's main. The equipment and facilities will be operated by Purchaser in accordance with the terms of this Agreement.

(c) Purchaser gives the City the right of access to construct, maintain, and operate the water line and appurtenances up to and including the Point of Delivery. The City shall provide the Purchaser prior notification of its intent to enter upon Purchaser's premises.

**Section 2.03 Metering Station.** The parties to this Agreement acknowledge and agree that the metering station located at the Point of Delivery is located so City and Purchaser both have unrestricted access to the metering station. Purchaser shall be responsible for the enclosure and security of the metering station and the general maintenance and mowing of the grounds in and about the metering station.

**Section 2.04 Metering Equipment.** City agrees to install and operate at the Point of Delivery the necessary metering equipment, including a meter box or pit, and required devices of standard type for properly measuring the quantity of water delivery to the Purchaser. City shall maintain, repair and provide for inspection of the backflow prevention device and the meter at the Point of Delivery. For the installation of the water line, the Purchaser shall reimburse City for the cost of inspection, maintenance, calibration, and repairs replacement of the backflow prevention device and the meter at the Point of Delivery as may be necessary within thirty (30)

days after Purchaser's receipt of notice and invoice of said costs and expenses from City. Future repairs to and replacement of the water line or its parts will be subject to Purchaser's availability of funds and addressed in subsequent agreements and / or contracts.

Section 2.05 Water Conservation and Drought Contingency. Purchaser understands and agrees that the availability of water may be subject to the City's water conservation and drought contingency plans meeting the requirements of Texas Administrative Code, Title 30, §§ 288.2 and 288.20 (collectively "Water Management Plan"). Purchaser shall follow and flow-down to its customers the City's drought contingency emergency response states in accordance with the City's Water Management Plan.

Section 2.06 Water Quality. The water that the City delivers to Purchaser shall be potable water acquired from NTMWD that is suitable for use by the public and shall meet the quality criteria prescribed by the TCEQ Drinking Water Standards Governing Drinking Water Quality and Reporting Requirements for Public Water Systems, Texas Administrative Code, Title 30, Chapter 290, Subchapter F.

Section 2.07 Title. The title to the water shall transfer from the City to Purchaser on the discharge side of the meter located at the Point of Delivery. Each of the Parties shall be responsible for any and all claims asserted on account of the transportation and delivery of said water while title remains in such party.

Section 2.08 Approvals. All notices, approvals and consents required to be given by any provision in this Agreement shall be in writing and signed by an authorized representative of the party giving such notice, approval or consent.

Section 2.09 Backflow Prevention/Air Gap. The water delivered by the City to Purchaser will be delivered through a back flow prevention device/air gap into Purchaser's service line(s).

Section 2.10 Interruption in Service. City shall endeavor to provide Purchaser at least seventy-two (72) hours advance notice of the commencement of routine maintenance and inspections that may impact the City's delivery of water to Purchaser. City will notify Purchaser as soon as is practicable after the occurrence of a broken line, pump failure or other emergency that may impact the City's delivery of water to Purchaser. The City reserves the right to discontinue or limit service to the Purchaser in times of emergency when the City's water supply is in jeopardy as determined by the City Manager. City will similarly notify Purchaser of any loss of pressure or requirement for the issuance of a "boil order." Purchaser shall be responsible for providing such notice to its customers as may be required by law. City shall not be responsible to Purchaser and Purchaser's customers or be liable for any claims or causes of action arising out of an event of failure on the part of the City to provide a constant flow of water to Purchaser regardless of the cause of such interruption of service.

### **ARTICLE 3**

#### **RATE AND PAYMENTS**

**Section 3.01 Rate.** Purchaser shall pay the fees and rates for potable water delivered by City under this Agreement in accordance with Chapter 74, entitled "Utilities," and Appendix A, entitled the "Master Fee Schedule," of the Farmersville Code, as such provisions may hereafter be amended from time to time by the Farmersville City Council. Purchaser shall pay such rates and fees as an "Inside City Limits" user. Chapter 74 and the Master Fee Schedule for water service are both incorporated herein by reference for all purposes allowed by law.

### **ARTICLE 4**

#### **TERM OF AGREEMENT: GOVERNMENTAL FUNCTION**

**Section 4.01 Initial Term.** This Agreement shall be effective on and from the date of execution of the last party to sign this Agreement, and shall continue in effect for so long as a water meter remains installed on the Property.

**Section 4.02 No Waiver of Immunity.** Nothing in this Agreement shall be construed as a waiver of immunity by either party. Purchaser and City specifically agree that the City's action in supplying and selling potable water to Purchaser by and through this Agreement is a governmental function of the City and that such action does not constitute a proprietary function.

### **ARTICLE 5**

#### **DEFINITIONS; INTERPRETATIONS; AND NTMWD/CITY AGREEMENT**

**Section 5.01 Definitions.** In addition to the terms defined above, the capitalized words and phrases shall have the meanings assigned to them in the City's water purchase Agreement with NTMWD dated August 1, 1988 ("NTMWD/City Agreement") unless the context clearly requires otherwise.

**Section 5.02 Interpretation.** The caption headings of this Agreement are for reference purposes only and shall not affect its interpretation in any respect. Unless the context otherwise requires, words of the masculine gender shall be construed to include correlative words of the feminine and neuter genders and vice versa. This Agreement and all the terms and provisions shall be liberally construed to effectuate the purpose set forth herein and to sustain the validity of this Agreement.

### **ARTICLE 6**

#### **GENERAL PROVISIONS**

**Section 6.01 Participation by the Parties.** The parties to this Agreement each represent to the other that it is empowered by law to execute this Agreement and other

agreements and documents as are or may hereafter be required to accomplish the same, and that its execution of this Agreement have been duly authorized by action of its governing body.

**Section 6.02 Force Majeure.** If by reason of force majeure any party hereto shall be rendered unable wholly or in part to carry out its obligations under this Agreement, other than the obligation of the Purchaser to make the payments required under this Agreement, then if such party shall give notice and full particulars of such Force Majeure in writing to the other party within a reasonable time after the occurrence of the event or cause relied on, the obligation of the party giving such notice, so far as it is affected by such Force Majeure, shall be suspended during the continuance of the inability then claimed, but for no longer period, and any such party shall endeavor to remove or overcome such inability with all reasonable dispatch. The term "force majeure" as employed herein shall mean acts of God, strikes, lockouts or other industrial disturbances, act of public enemy, orders of any king of the government of the United States of America or the State of Texas, or any civil or military authority, insurrection, riots, epidemics, landslides, lightning, earthquake, fires, hurricanes, storms, floods, washouts, droughts, arrests, restraint of government and people, civil disturbances, explosions, breakage or accidents to machinery, pipelines or canals, partial or entire failure of water supply, inability on the part of NTMWD or City to deliver water for any reason, or on account of any other causes not reasonably within the control of the party claiming such inability.

**Section 6.03 Modification.** No change, amendment, or modification of this Agreement shall be made or be effective that will affect adversely the prompt payment when due of all money required to be paid by the Purchaser under the terms of this Agreement.

**Section 6.04 Addresses and Notice.** Unless otherwise provided herein, any notice of communication required to be given under this Agreement by either party to the other party shall be in writing and delivered by facsimile, by certified mail, addressed to the party to be notified, with return receipt requested, or by personal delivery to the person designated by the other party. Notice deposited in the mail shall be deemed delivered to the other party three days after the date the notice is postmarked. Notice given in any other manner shall be effective upon receipt by the party to be notified. The following fax numbers and addresses shall apply for purposes of delivering notice under this Agreement:

**If to City:**

City of Farmersville  
Attn: City Manager  
205 S. Main Street  
Farmersville, TX 75442  
Fax: (972) 782-6604

**If to Purchaser:**

U.S. Army Corps of Engineers  
Attn: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



Fax: \_\_\_\_\_

The City and Purchaser shall have the right from time to time, and at any time, to change the respective addresses or fax numbers for notice by giving a minimum 10 days prior written notice to the other party.

Section 6.05 State or Federal Laws, Rules, Orders, or Regulations. This Agreement is subject to all applicable federal and State laws and any applicable permits, ordinances, rules, orders, and regulations of any local, state, or federal governmental authority having or asserting jurisdiction but nothing contained herein shall be construed as a waiver of any right to question or contest any such law, ordinance, order, rule, or regulation in any forum having jurisdiction. Each party represents that, to the best of their knowledge, no provisions of any applicable federal or State law, nor any permit, ordinance, rule, order, or regulation of either party will limit or restrict the ability of either party to carry out their respective obligations under or contemplated by this Agreement.

Section 6.06 Severability. The parties hereto specifically agree that in case any one or more of the sections, subsections, provisions, clauses, or words of this Agreement or the application of such sections, subsections, provisions, clauses, or words to any situation or circumstance should be, or should be held to be, for any reason, invalid or unconstitutional, under the laws or constitutions of the State or the United States of American, or in contravention of any such laws or constitutions, such invalidity, unconstitutionality, or contravention shall not affect any other sections subsections, provisions, clauses, or words of this Agreement or the application of such actions, subsections, provisions, clauses, or words to any other situation or circumstance, and it is intended that this Agreement shall be severable and shall be construed and applied as if any such invalid or unconstitutional section, subsection, provision, clause, or word had not been included herein, and the rights and obligations of the parties hereto shall be construed and remain in force accordingly.

Section 6.07 Waiver. No waiver or waivers of any breach or default (or any breaches or defaults) by any party hereto or of the performance by any other party of any duty or obligation hereunder shall be deemed a waiver thereof in the future, nor shall any such waiver or waivers be deemed or construed to be a waiver of subsequent breaches or defaults of any kind, character or description, under any circumstances.

Section 6.08 Venue. All amounts due under this Agreement, including, but not limited to, payments due under this Agreement or damages for the breach of this Agreement, shall be paid and be due in Collin County, Texas, which is the County in which the principal administrative offices of the City are located. It is specifically agreed among the parties to this Agreement that Collin County, Texas, is the place of performance of this Agreement, and in the event that any legal proceeding is brought to enforce this Agreement or any provision hereof, the same shall be brought in Federal District Court for the Eastern District of Texas.

Section 6.09 Succession and Assignment. This Agreement is binding on and inures to the benefit of the parties hereto and their respective successors, representatives, and assigns. This Agreement may not be assigned by either party hereto without prior written notice to and approval by the other party, which consent may be withheld without cause.

Section 6.10 Entire Agreement. This Agreement constitutes the entire agreement between the parties with respect to the matters described herein.

Section 6.11 Applicable Law. This Agreement shall be governed by and construed in accordance with Federal Law, and if applicable, the laws of the State of Texas, and the obligations, rights, and remedies of the parties hereunder shall be determined in accordance with such laws without reference to the laws of any other state or jurisdiction, except for applicable federal laws, rules, and regulations.

Section 6.12 Counterparts. This Agreement may be executed in counterparts, each of which shall be an original and all of which together shall constitute but one and the same instrument.

Section 6.13 Officers and Agents. No officer or agent of City or Purchaser is authorized to waive or modify any provision of the Agreement. No modifications to or rescission of this Agreement may be made except by written agreement signed by authorized representatives of City and Purchaser.

Section 6.14 Recitals. City and Purchaser agree that the recitals in this Agreement are true and correct and are incorporated into the terms of this Agreement.

Section 6.15 Notice to Proceed. The Purchaser shall provide the City with a notice to proceed in which the City will be responsible for commencing work within ten days.

IN WITNESS WHEREOF, the parties hereto acting under authority of their respective governing bodies have caused this Agreement to be duly executed as of the day and year first above written.

**CITY OF FARMERSVILLE, TEXAS**

By: \_\_\_\_\_  
Diane Piwko, Mayor

Date Signed: \_\_\_\_\_

ATTEST:

\_\_\_\_\_  
Mary Tate, City Secretary

STATE OF TEXAS           §  
COUNTY OF COLLIN       §

Before me, the undersigned authority, on this day personally appeared Diane Piwko, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that she executed the same as the act of the City of Farmersville, Texas, a Texas municipal corporation, as its Mayor, for the purposes and consideration therein expressed.

Given under my hand and seal of office on this the \_\_\_\_ day of \_\_\_\_\_, 2016.

\_\_\_\_\_  
Notary Public, State of Texas

**U.S. ARMY CORPS OF ENGINEERS,**  
a \_\_\_\_\_

By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Office: \_\_\_\_\_

Date Signed: \_\_\_\_\_

ATTEST:

\_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_

STATE OF TEXAS           §  
COUNTY OF COLLIN       §

Before me, the undersigned authority, on this day personally appeared \_\_\_\_\_, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same as the act of the U.S.

**Army Corps of Engineers**, a \_\_\_\_\_, as its \_\_\_\_\_, for the purposes and consideration therein expressed.

Given under my hand and seal of office on this the \_\_\_\_\_ day of \_\_\_\_\_, 2016.

\_\_\_\_\_  
Notary Public, State of Texas

Agenda Section	Regular Agenda
Section Number	VI.C
Subject	Consider, discuss, and act upon amending certain provisions of the International Fire Code, as previously amended, through the amendment of Sec. 29-55 of the Farmersville Code
To	Mayor and Council Members
From	Ben White, City Manager
Date	July 12, 2016
Attachment(s)	Sec. 29-55
Related Link(s)	<a href="http://www.farmersvilletx.com/government/agendas_and_minutes/city_council_meetings.php">http://www.farmersvilletx.com/government/agendas_and_minutes/city_council_meetings.php</a>
Consideration and Discussion	City Council discussion as required.
Action	<ul style="list-style-type: none"> <li>• Motion/second/vote <ul style="list-style-type: none"> <li><input type="checkbox"/> Approve</li> <li><input type="checkbox"/> Approve with Updates</li> <li><input type="checkbox"/> Disapprove</li> </ul> </li> <li>• Motion/second/vote to continue to a later date. _____ <ul style="list-style-type: none"> <li><input type="checkbox"/> Approve</li> <li><input type="checkbox"/> Disapprove</li> </ul> </li> <li>• Move item to another agenda. _____</li> <li>• No motion, no action</li> </ul>

**Sec. 29-55. - Amending the International Fire Code.**

The International Fire Code is hereby amended by adding Section 903.2.10.4 as follows:

**903.2.10.4 Buildings over 6,000 square feet.** An automatic sprinkler system shall be installed throughout all buildings with a building area over 6,000 square feet. For the purpose of this provision, fire walls shall not define separate buildings. Exceptions: Group A-2 shall be in compliance with section 903.2.1.2 of the International Fire Code, Groups R2 and R3 shall be in compliance with the International Building Code and the Residential Code.

(Code 2004, § 4.139.3; Ord. No. 2005-40, 9-6-2005)

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Agenda Section	Regular Agenda
Section Number	VI.D
Subject	Consider, discuss, and act a contract amendment with Collin County to provide fire inspection and fire plan review for the 2016-2017 fiscal year
To	Mayor and Council Members
From	Ben White, City Manager
Date	July 12, 2016
Attachment(s)	Contract amendment and original contract
Related Link(s)	<a href="http://www.farmersvilletx.com/government/agendas_and_minutes/city_council_meetings.php">http://www.farmersvilletx.com/government/agendas_and_minutes/city_council_meetings.php</a>
Consideration and Discussion	City Council discussion as required.
Action	<ul style="list-style-type: none"> <li>• Motion/second/vote <ul style="list-style-type: none"> <li><input type="checkbox"/> Approve</li> <li><input type="checkbox"/> Approve with Updates</li> <li><input type="checkbox"/> Disapprove</li> </ul> </li> <li>• Motion/second/vote to continue to a later date. _____ <ul style="list-style-type: none"> <li><input type="checkbox"/> Approve</li> <li><input type="checkbox"/> Disapprove</li> </ul> </li> <li>• Move item to another agenda. _____</li> <li>• No motion, no action</li> </ul>



## COLLIN COUNTY

Office of the Purchasing Agent  
2300 Bloomdale Road  
Suite 3160  
McKinney, Texas 75071  
[www.collincountytx.gov](http://www.collincountytx.gov)

June 6, 2016

City of Farmersville  
Attn: City Mayor  
205 S. Main St.,  
Farmersville TX. 75442

Re:	Contract Name:	<b>Provide Fire Inspection and Fire Plan Review</b>
	Contract Start Date:	<b>November 4, 2013</b>
	Agreement Renewal Period	<b>October 1, 2016 to September 30, 2017(Renewal 3 of 4)</b>

Dear Mayor :

The aforementioned contract between Collin County and your company will expire on September 30, 2016. The Collin County Purchasing Department is requesting that your company extend this contract for an additional 12 month period to include terms, conditions and pricing set forth in the original bid award.

If you are interested in extending the current contract, please complete the form below and return by July 5, 2016. If you desire to extend this contract.

Should you have any questions, please feel free to contact me at [gosinaike@co.collin.tx.us](mailto:gosinaike@co.collin.tx.us)

Sincerely,

Geri Osinaike  
Senior Buyer

Please check one:

Yes ☐ I agree to extend the contract with Collin County at the prices established in the original solicitation.  
No ☐ I cannot extend the contract.

Signature: \_\_\_\_\_

Print Name & Title: \_\_\_\_\_

Date: \_\_\_\_\_

If your address has changed from above please state new address below:

Street Address: \_\_\_\_\_

City, State, Zip Code: \_\_\_\_\_



**INTERLOCAL COOPERATION AGREEMENT  
FOR  
FIRE INSPECTION AND FIRE PLAN REVIEW SERVICES  
FOR COMMERCIAL BUILDINGS**

WHEREAS, the Interlocal Cooperation Act, Title 7, Chapter 791, of the Texas Government Code (the "Act"), and the Constitution of the State of Texas, Article III, Section 64(b) (the "Constitution") specifically authorize counties and other political subdivisions comprised or located within the county, to contract with one another for the performance of governmental functions and/or services required or authorized by the Constitution, or the laws of this State, under the terms and conditions prescribed in the Act; and

WHEREAS, the functions and/or services contemplated to be performed by Collin County, Texas, as set out herein, are governmental functions and/or services contemplated by the terms of the Act and are functions and/or services which each of the parties hereto have independent authority to pursue, notwithstanding this Agreement; and

WHEREAS, both the County and the political subdivision named herein as the City of Farmersville, Texas, are desirous of entering into this Interlocal Cooperation Agreement, as is evidenced by the resolutions or orders of their respective governing bodies approving this Agreement which are attached hereto and made a part hereof.

NOW, THEREFOR, THIS AGREEMENT is hereby made and entered into by and between Collin County, Texas, and the City of Farmersville, Texas, a political subdivision of the State of Texas, which is wholly or partially located within Collin County, Texas. Consideration for this Agreement consists of the mutual covenants contained herein, as well as any monetary consideration, which may be stated herein. This agreement is as follows, to wit:

1. **SERVICES:** As requested by the political subdivision named herein, Collin County, Texas, acting by and through its duly authorized agents and employees, agrees to provide political subdivision with the following described governmental functions and/or services:

**FIRE INSPECTIONS AND FIRE PLAN REVIEW IN ACCORDANCE WITH 2009 INTERNATIONAL FIRE CODE** and the laws and regulations of the City of Farmersville pertaining to fire prevention and fire protection, including all amendments approved by the City Council of the City of Farmersville, Texas.

2. **NONEXCLUSIVITY OF SERVICE PROVISIONS:** The parties agree that the County may contract to perform services similar or identical to those specified on this Agreement for such additional governmental or public entities as the County, in its sole discretion sees fit.

3. **COMPENSATION:** As consideration for the above-described governmental functions and/or services, the City of Farmersville agrees to make payment to Collin County, Texas in the amount of Five Thousand Seven Hundred Fifty Dollars (\$5,750.00) per year for each year of the

term of this Agreement including renewal terms. See Exhibit "A" for cost itemization. The City's payment shall be made in quarterly installments to the County in advance, due and payable on the first day of each quarter during the term of this Agreement, including any renewal terms, with the first payment due and payable within ten (10) days from the Effective Date of this Agreement. Such quarters begin on October 1, January 1, April 1, and July 1 of each year hereunder. The City will make all billing and collections from inspection recipients for services provided by Collin County.

4. **TERM:** This Agreement shall be effective from and after the passage of enabling resolutions or orders by the governing bodies of the parties hereto and the execution hereof by each of the authorized representatives of the political subdivision who are parties hereto and shall remain in effect in full force and effect through September 30, 2014. At the County's option, and with approval by the Municipality, the Agreement may be renewed for four (4) additional one (1) year periods.

5. **TERMINATION:** Either party may terminate this Agreement by giving ninety (90) days written notice to the other party.

6. **AMENDMENT:** This Agreement shall not be amended or modified other than in written agreement signed by the parties.

7. **CONTROLLING LAW:** This Agreement shall be deemed to be made under, governed by, and construed in accordance with the laws of the State of Texas. Venue shall be in Collin County, Texas.

8. **NOTICES:** Unless otherwise specified, all communications provided for in this Agreement shall be in writing and shall be deemed delivered, whether actually received or not, seventy-two (72) hours after deposit in the United States mail or immediately when delivered in person.

All communication provided for in this Agreement shall be addressed as followed:

**COLLIN COUNTY:**  
Collin County Fire Marshal  
825 N. McDonald, Suite 140  
McKinney, Texas 75069

**CITY:**  
City of Farmersville  
City Manager  
205 S. Main Street  
Farmersville, TX 75442

Notwithstanding the foregoing, it is understood that each party paying for the performance of governmental functions or services must make those payments from current revenues available to the paying party. In the event of a non-appropriation by the paying party, the performing party

shall be relieved of its responsibilities hereunder as of the first day of the fiscal year of such non-appropriation. All payments must be in an amount that fairly compensates the performing party for the services or functions performed under this agreement.

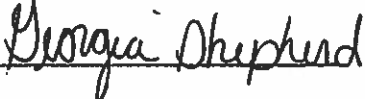
Approved and effective this 10th day of October, 2013.

COLLIN COUNTY, TEXAS  
2300 Bloomdale Rd., Suite 4192  
McKinney, TX 75071

BY: 

TITLE: County Judge

DATE: 11/5/13

ATTEST: 

NAME: Georgia Shepherd

TITLE: Administrative Secretary

CITY OF FARMERSVILLE  
205 S. Main Street  
Farmersville, TX 75442

BY: 

TITLE: Mayor

DATE: October 8, 2013

ATTEST: 

NAME: Edie Sims

TITLE: City Secretary

**Exhibit "A"**

<b>Annual Fire Inspection per location = \$25.00 each (180 locations are currently existing)</b>	<b>\$4,500.00</b>
<b>Certificate of Occupancy = \$95.00 each (10 Certificate of Occupancies are expected)</b>	<b>\$ 950.00</b>
<b>Plan Review = \$100.00 each (3 Plan Reviews are expected)</b>	<b>\$ 300.00</b>
	<b>=====</b>
<b>ESTIMATED COST FOR COUNTY FIRE MARSHAL SERVICE</b>	<b>\$5,750.00</b>

Agenda Section	Regular Agenda
Section Number	VI.E
Subject	Consider, discuss, and act upon a proposed boundary agreement between the City of Farmersville and the City of Princeton
To	Mayor and Council Members
From	Ben White, City Manager
Date	July 12, 2016
Attachment(s)	NA
Related Link(s)	<a href="http://www.farmersvilletx.com/government/agendas_and_minutes/city_council_meetings.php">http://www.farmersvilletx.com/government/agendas_and_minutes/city_council_meetings.php</a>
Consideration and Discussion	City Council discussion as required.
Action	<ul style="list-style-type: none"> <li>• Motion/second/vote <ul style="list-style-type: none"> <li><input type="checkbox"/> Approve</li> <li><input type="checkbox"/> Approve with Updates</li> <li><input type="checkbox"/> Disapprove</li> </ul> </li> <li>• Motion/second/vote to continue to a later date. _____ <ul style="list-style-type: none"> <li><input type="checkbox"/> Approve</li> <li><input type="checkbox"/> Disapprove</li> </ul> </li> <li>• Move item to another agenda. _____</li> <li>• No motion, no action</li> </ul>

Agenda Section	Regular Agenda
Section Number	VI.F
Subject	Consider, discuss, and act upon the service of Charter Communications, formerly Time Warner, and its acquisition of Bright House
To	Mayor and Council Members
From	Ben White, City Manager
Date	July 12, 2016
Attachment(s)	Notice for City Leaders
Related Link(s)	<a href="http://www.farmersvilletx.com/government/agendas_and_minutes/city_council_meetings.php">http://www.farmersvilletx.com/government/agendas_and_minutes/city_council_meetings.php</a>
Consideration and Discussion	City Council discussion as required.
Action	<ul style="list-style-type: none"> <li>• Motion/second/vote <ul style="list-style-type: none"> <li><input type="checkbox"/> Approve</li> <li><input type="checkbox"/> Approve with Updates</li> <li><input type="checkbox"/> Disapprove</li> </ul> </li> <li>• Motion/second/vote to continue to a later date. _____ <ul style="list-style-type: none"> <li><input type="checkbox"/> Approve</li> <li><input type="checkbox"/> Disapprove</li> </ul> </li> <li>• Move item to another agenda. _____</li> <li>• No motion, no action</li> </ul>



June 6, 2016

### **IMPORTANT NOTICE FOR CITY AND MILITARY BASE LEADERS**

As part of a national transaction, Charter Communications, Inc. ("Charter") combined with Time Warner Cable Inc. ("TWC") and Bright House Networks, LLC ("BHN") into a single company, "New Charter." Prior to the close of the transaction, the entity that held the cable franchise in your community was an indirect, wholly owned subsidiary of TWC. Upon completing the merger on May 18, 2016, your cable franchisee is now an indirect, wholly owned subsidiary of New Charter. New Charter has assumed the name Charter Communications, Inc.

Charter markets its products and services under the brand name "Spectrum." In the coming weeks and months, you will learn more about Charter and its Spectrum services. Spectrum is the fastest-growing TV, Internet, and Voice provider in the United States, serving more than 24 million customers nationwide in 41 states across the country. As the second largest cable company in America, we have over 90,000 employees working every day to deliver the highest-quality products, more value, and better service to our customers. Charter is well known for its customer-focused and friendly operational practices, network investment, and product and pricing strategies.

While ultimate ownership and control of your cable franchisee has changed, the actual entity that holds the cable franchise in your community remains the same and no further action is required on your part. All of us at Charter are excited about serving your community and we look forward to working with you closely in the future to bring many new service enhancements to your residents.

If you have any questions please give me a call at (469) 464-4846 or send an email to me at [clemon.maddox@charter.com](mailto:clemon.maddox@charter.com). Thank you.

Sincerely,

A handwritten signature in black ink, appearing to read "Clem Maddox", written in a cursive style.

Clem Maddox  
Director, Government Affairs

Agenda Section	Regular Agenda
Section Number	VI.G
Subject	Consider, discuss, and act upon tree maintenance and removal procedures in the historic downtown area and parkway areas throughout the City including the reconsideration of an earlier discussion regarding the removal and relocation of certain trees located in front of 100 and 101 McKinney Street occupied respectively by Red Door Antiques and Carrie's Floral Creations
To	Mayor and Council Members
From	Ben White, City Manager
Date	July 12, 2016
Attachment(s)	NA
Related Link(s)	<a href="http://www.farmersvilletx.com/government/agendas_and_minutes/city_council_meetings.php">http://www.farmersvilletx.com/government/agendas_and_minutes/city_council_meetings.php</a>
Consideration and Discussion	City Council discussion as required.
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Agenda Section	Regular Agenda
Section Number	VI.H
Subject	Consider, discuss, and act upon accepting a private donation in the amount of \$250.00 given to the Farmersville Volunteer Fire Department
To	Mayor and Council Members
From	Ben White, City Manager
Date	July 12, 2016
Attachment(s)	NA
Related Link(s)	<a href="http://www.farmersvilletx.com/government/agendas_and_minutes/city_council_meetings.php">http://www.farmersvilletx.com/government/agendas_and_minutes/city_council_meetings.php</a>
Consideration and Discussion	City Council discussion as required.
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## **VII. Budget Workshop Updates**

## **VIII. Executive Session**

Agenda Section	Executive Session
Section Number	VIII. A
Subject	<p>Discussion regarding pending or contemplated litigation:</p> <p>A. <i>Texas Voices for Reason and Justice, Inc. v. The City of Farmersville, Texas</i>, No. 380-05234-2015, challenging City Ordinance No. 2006-42.</p> <p>B. Possible claims that may be asserted against the City</p>
To	Mayor and Council Members
From	Alan Lathrom, City Attorney
Date	July 12, 2016
Attachment(s)	NA
Related Link(s)	<a href="http://www.farmersvilletx.com/government/agendas_and_minutes/city_council_meetings.php">http://www.farmersvilletx.com/government/agendas_and_minutes/city_council_meetings.php</a>
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Agenda Section	Executive Session
Section Number	VIII.B
Subject	<p>Discussion regarding matters protected by the Attorney-Client Privilege:</p> <p>A. Impacts of Town of Lakewood Village v. Bizios</p> <p>B. Impacts of City of Dallas v. Stewart</p> <p>C. Update regarding various legal matters</p>
To	Mayor and Council Members
From	Alan Lathrom, City Attorney
Date	July 12, 2016
Attachment(s)	Notice for City Leaders
Related Link(s)	<a href="http://www.farmersvilletx.com/government/agendas_and_minutes/city_council_meetings.php">http://www.farmersvilletx.com/government/agendas_and_minutes/city_council_meetings.php</a>
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**IX. RECONVENE FROM EXECUTIVE SESSION AND  
DISCUSS/CONSIDER/ACT ON MATTERS DISCUSSED IN  
EXECUTIVE SESSION PERMITTED BY SECTIONS 551.071 OF  
THE TEXAS GOVERNMENT CODE**

## **X. Requests to be placed on future agendas**

## **XI. Adjournment**

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