

1 WATER MAINS

1. WATER MAINS 12" AND UNDER SHALL BE AWWA C-900 OR C-909 PVC PRESSURE CLASS 150. WHERE STATIC SYSTEM PRESSURE EXCEEDS 125 P.S.I., USE PRESSURE CLASS 200. 16" TO 20" WATER MAINS SHALL BE AWWA C-905 PVC PRESSURE RATING 235 OR AS PRE-APPROVED BY CITY ENGINEER. WATER MAINS GREATER THAN 20" SHALL BE AWWA C-151 DUCTILE IRON PIPE PRESSURE CLASS 250, AWWA C-303 RCP, AWWA C-905 PVC PRESSURE CLASS 235 OR AS PRE-APPROVED BY CITY ENGINEER.
2. WATER PIPE IS TO BE COLORED BLUE AND INSTALLED WITH MANUFACTURER'S IMPRINT FACING UP.
3. INSTALL BLUE METALLIC TRACER TAPE MARKED "WATER LINE BURIED BELOW" APPROXIMATELY 12"-18" BELOW SURFACE.
4. WATER LINE EMBEDMENT IS TO BE CLEAN FREE FLOWING SAND THAT WHEN WET DOES NOT FORM MUD OR MUCK.
5. FITTINGS TO BE RESTRAINED USING MEGA-LUG OR EQUAL. DUCTILE IRON FITTINGS ARE TO BE DOUBLE-POLY WRAPPED.
6. BLOCK FITTINGS PER STANDARD DETAIL.
7. WATER MAIN IS TO BE PRESSURE TESTED TO 150 P.S.I. MEASURED AT LOWEST POINT FOR 4 HOURS. REFER TO NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (NCTCOG) STANDARD SPECIFICATIONS FOR ALLOWABLE LEAKAGE.
8. STERILIZATION IS TO BE PER NCTCOG. SAMPLE REQUIRED EACH 1000 FEET. ALL HEAVILY CHLORINATED WATER SHALL BE FLUSHED FROM THE SYSTEM AND EITHER DECHLORINATED AND DISCHARGED PER NCTCOG STANDARDS OR TRANSPORTED AND DISPOSED OF PROPERLY.
9. WATER MAIN LOCATION IN LOCAL STREET FOR DEVELOPMENTS WITHIN THE AUSTIN CHALK FORMATION TO BE UNDER PAVING 5' FROM BACK OF CURB ON NORTH OR EAST SIDE OF STREET (MINIMUM 10' FROM SEWER LINE). WATER MAINS ALONG COLLECTOR AND ARTERIAL ROADWAYS SHALL BE LOCATED UNDER SIDEWALK ON NORTH OR EAST SIDE OF ROADWAY OR AS SPECIFIED BY CITY ENGINEER. WATER MAINS LOCATED IN THE EAGLE FORD GROUP SHALL COMPLY WITH EAGLE FORD SPECIAL DESIGN AND CONSTRUCTION STANDARDS ORDINANCE.
10. VALVES SHALL BE LOCATED AT ALL INTERSECTIONS ON ALL MAINS AND OTHER LOCATIONS AS REQUIRED IN ORDER TO ALLOW FOR THE ISOLATION OF MAINS FOR REPAIRS. ALL VALVES SHALL BE INSTALLED IN THE VERTICAL POSITION WITH A VALVE BOX AND COVER CENTERED OVER THE STEM.
11. WATER MAINS INSTALLED WITHIN PRIVATE DEVELOPMENTS SHALL BE CLASSIFIED AS PRIVATE UNLESS SPECIFICALLY DESIGNATED AS PUBLIC BY THE CITY. PRIVATE MAINS SHALL BE UTILIZED FOR FIRE PROTECTION PURPOSES AND SHALL HAVE A DETECTOR CHECK AND VAULT INSTALLED AT ALL TIE-IN POINTS ON THE PUBLIC WATER MAIN.

4 WATER SERVICES

1. ONE (1") INCH SERVICES SHALL BE TYPE "K" COPPER OR APPROVED POLY- PIPE BY CITY ENGINEER.
2. TWO (2") INCH SERVICES SHALL BE TYPE "K" HARD COPPER OR APPROVED POLY- PIPE BY CITY ENGINEER.
3. NO SHORT JOINTS ALLOWED UNDER PAVEMENT. USE ONLY FULL JOINTS.
4. ALL FITTINGS ARE TO BE COMPRESSION TYPE (FORD OR APPROVED EQUAL).
5. SERVICE IS TO BE LOCATED 5' UPSTREAM FROM CENTER OF LOT IN NON-PAVED PARKWAY AREA UNLESS ALTERNATE LOCATION IS APPROVED BY CITY ENGINEER.
6. SERVICE LOCATION IS TO BE MARKED ON CURB WITH A 2" TALL "W" STAMPED IN CONCRETE.
7. FOR LARGER SERVICES, REFER TO STANDARD DETAILS AND COORDINATE LOCATION WITH CITY ENGINEER.
8. EACH LOT SHALL HAVE AN INDIVIDUAL SERVICE. U-BRANCH CONNECTIONS (BULLHEAD SERVICES) ARE PERMITTED FOR TWO SERVICES ON THE SAME LOT (FORD DOUBLE SETTER OR APPROVED EQUAL).
9. TESTABLE BACK FLOW PREVENTION DEVICE REQUIRED FOR ALL IRRIGATION SERVICES OR BRANCHES IN ACCORDANCE WITH TCEQ AND CITY REQUIREMENTS.
10. ALL SERVICES SHALL BE CONSTRUCTED WITH EMBEDMENT AND BACKFILL ACCORDING TO CITY STANDARDS. EMBEDMENT AND BACKFILL LOCATED IN THE EAGLE FORD GROUP SHALL COMPLY WITH EAGLE FORD SPECIAL DESIGN AND CONSTRUCTION STANDARDS ORDINANCE.
11. WATER SERVICES FOUR (4") INCHES OR SMALLER SHALL NOT BE PERMITTED ON MAINS THAT ARE 16" OR LARGER.

7 FIRE HYDRANTS

1. FIRE HYDRANTS ARE TO BE MUELLER SUPER CENTURION HIGH SECURITY (HS) 250, WITH PENTAGONAL NUTS. HIGH SECURITY NOT REQUIRED FOR HYDRANTS INSTALLED ON MAINS WITH DETECTOR CHECK.
2. LOCATE FIRE HYDRANTS 3'-5' BEHIND CURB UNLESS OTHERWISE PERMITTED BY CITY ENGINEER.
3. FIRE HYDRANT IS TO BE INSTALLED USING RESTRAINED FITTINGS.
4. BLOCK HYDRANT PER STANDARD DETAILS.
5. PROVIDE 6" VALVE (MIN) ON INLET LINE TO FIRE HYDRANT.
6. FIRE HYDRANT IS TO BE FACTORY PAINTED ALUMINUM WITH BONNET BRUSH PAINTED (NO SPRAYING) AS FOLLOWS:

MAIN SIZE	COLOR	TNEMEC	FLYNT
12" & LARGER	BLUE	11SF	BLUE
8"	GREEN	09SF	GREEN
6"	SILVER	57GR	ALUMINUM
PRIVATE (ALL SIZES)	RED	06SF	RED

7. SET FIRE HYDRANT VERTICAL WITH BREAK AWAY FLANGE 2"-6" ABOVE FINISHED GRADE. HYDRANTS FALLING OUTSIDE OF LIMITS SHALL BE ADJUSTED.
8. STANDARD FIRE HYDRANT LOCATION IS AT EACH STREET INTERSECTION. INTERMEDIATE FIRE HYDRANT LOCATION IS AT COMMON LOT LINE (PER FIRE CHIEF OR THEIR DESIGNER).
9. FIRE HYDRANT LOCATORS SHALL CONSIST OF 4"x4" BLUE REFLECTOR TRAFFIC BUTTONS AND SHALL BE INSTALLED OPPOSITE EACH FIRE HYDRANT ON ALL STREETS.

2 SEWER MAINS

1. SEWER LINES UP TO TEN (10) FOOT DEPTH SHALL BE SDR-35. SEWER LINES DEEPER THAN TEN (10) FEET SHALL BE MIN. SDR-26. SEWER MAINS THAT ARE DEEPER THAN TEN (10) FEET SHALL NOT HAVE INDIVIDUAL SERVICES UNLESS OTHERWISE PERMITTED BY THE CITY. UNDER THESE CIRCUMSTANCE, A SEPARATE SECONDARY MAIN SHALL BE INSTALLED WITHIN THE SAME TRENCH AS THE DEEP MAIN AT A DEPTH THAT IS LESS THAN TEN (10) FEET.
2. SEWER PIPE IS TO BE COLORED GREEN AND INSTALLED WITH MANUFACTURER'S IMPRINT FACING UP.
3. INSTALL GREEN METALLIC TRACER TAPE MARKED "SEWER LINE BURIED BELOW" APPROXIMATELY 12"-18" BELOW SURFACE.
4. SEWER LINE EMBEDMENT IS TO BE STANDARD CRUSHED ROCK-AGGREGATE GRADE 4 PER NCTCOG, (LESS THAN 1").
5. SEWER MAIN IS TO BE INSTALLED UNDER PAVEMENT AT CENTER LINE OF LOCAL STREETS FOR DEVELOPMENTS WITHIN THE AUSTIN CHALK FORMATION AND 3' FEET FROM BACK OF CURB ON SOUTH OR WEST SIDE OF ARTERIAL AND COLLECTOR STREETS UNLESS ALTERNATE LOCATION IS APPROVED BY CITY ENGINEER. SEWER MAINS LOCATED IN THE EAGLE FORD GROUP SHALL COMPLY WITH EAGLE FORD SPECIAL DESIGN AND CONSTRUCTION STANDARDS ORDINANCE.
6. TESTING REQUIRED - TO BE PER NCTCOG STANDARD SPECIFICATIONS.
 - A) MANDREL TEST - MAXIMUM ALLOWABLE DEFLECTION OF 5%. TO BE PERFORMED 30 DAYS AFTER BACKFILL IS COMPLETE OR AS DIRECTED BY CITY.
 - B) AIR PRESSURE TEST OF MAIN & LATERALS. C) VACUUM TEST OF MANHOLES.
7. TELEVISION INSPECTION - ALL MAINS SHALL BE INSPECTED BY TELEVISION AFTER COMPLETION OF ALL NEW MAINS, CROSSINGS, UTILITIES, AND NEARBY PAVED SURFACES. RUN WATER THRU MAIN PRIOR TO TELEVISION SO GRADE DEFICIENCIES MAY BE DETERMINED. ALL LATERALS, SERVICE CONNECTIONS AND SERVICES SHALL BE INSPECTED BY TELEVISION. ALL DEFECTS FOUND ARE TO BE CORRECTED. TELEVISION INSPECTION SHALL BE PROVIDED TO CITY ENGINEER IN ELECTRONIC FORMAT WITH A TELEVISION LOG SHEET.
8. DROP MANHOLE REQUIRED FOR CONNECTION WHERE FLOW LINE OFFSET IS 18" OR GREATER. 5' DIAMETER MANHOLE MUST BE USED WHEN A DROP IS REQUIRED.
9. ALL PIPES ENTERING & LEAVING A MANHOLE SHALL BE CONCRETE CRADLED FOR A DISTANCE OF 5' OUTSIDE OF MANHOLE.
10. 4' DIAMETER MANHOLES SHALL BE USED WHEN THE DEPTH IS BETWEEN 0 AND 10 FEET. 5' DIAMETER MANHOLES SHALL BE USED WHEN THE DEPTH IS GREATER THAN 10 FEET. 6' DIAMETER MANHOLES SHALL BE USED WHEN REQUIRED.
11. EXISTING MANHOLES WHERE A FORCE MAIN ENDS AND THE TWO DOWNSTREAM MANHOLES SHALL BE COATED WITH RAVEN LINING OR APPROVED EQUAL. NEW MANHOLES WHERE A FORCE MAIN ENDS AND THE NEXT TWO DOWNSTREAM MANHOLES SHALL BE MADE OF FIBERGLASS UNLESS OTHERWISE PERMITTED BY THE CITY.
12. HORIZONTAL CURVES SHALL NOT BE ACCOMPLISHED BY MECHANICAL MEANS AND SHALL BE IN ACCORDANCE WITH TCEQ DESIGN CRITERIA FOR DOMESTIC WASTEWATER SYSTEMS.
13. DOWNSTREAM MANHOLE(S) SHALL BE ADEQUATELY PLUGGED DURING CONSTRUCTION.
14. ALL NEW MANHOLES SHALL BE COATED WITH A LINER SYSTEM THAT IS SPECIFICALLY DESIGNED FOR MANHOLES TO PREVENT CORROSION, INFILTRATION/ EXFILTRATION AND TO FILL VOIDS AND MISSING MORTAR JOINTS. SAID LINER SYSTEM SHALL BE SPECTRASHIELD OR APPROVED EQUIVALENT.

5 SEWER SERVICES

1. SEWER SERVICES SHALL BE OF SAME MATERIAL AS MAIN.
2. USE FULL JOINTS UNDER PAVING.
3. SERVICE TO BE LOCATED 5' DOWNSTREAM FROM CENTER OF LOT UNLESS ALTERNATE LOCATION IS APPROVED BY CITY ENGINEER.
4. SERVICE LOCATION IS TO BE MARKED ON THE CURB WITH A 2" TALL "S" STAMPED IN CONCRETE.
5. SERVICE TO EXTEND TO PROPERTY LINE AND TERMINATE WITH A VERTICAL CLEAN-OUT.
6. ALL SANITARY SEWER LATERALS SHALL INCLUDE 4" TEE WYE AND BEND, PIPE AND STOPPER INSTALLED AT A MINIMUM OF 10' DOWNSTREAM FROM THE WATER MAIN SERVICE ON EACH LOT, UNLESS OTHERWISE INDICATED ON PLANS. 6" LATERALS REQUIRE MANHOLE AT MAIN SEWER PIPE.

8 SEWER FORCE MAINS

1. SEWER FORCE MAINS ARE TO USE SAME MATERIALS, INSTALLATION, AND TESTING PER WATER MAIN SPECIFICATIONS.
2. PIPE COLOR TO BE GREEN.
3. INSTALL BROWN METALLIC TRACER TAPE MARKED "CAUTION-BURIED FORCE MAIN BELOW" APPROXIMATELY 12"-18" BELOW SURFACE.

9 DEVELOPMENT STANDARDS

1. AS-BUILT PLANS/RECORD DRAWINGS: PRIOR TO THE ACCEPTANCE OF ANY DEVELOPMENT AND/OR IMPROVEMENTS BY THE CITY, THE DEVELOPER SHALL SUBMIT TO THE CITY ENGINEER A COMPLETE SET OF REPRODUCIBLE DRAWINGS IN ACCORDANCE WITH CITY REQUIREMENTS.

MAINTENANCE BOND:
PRIOR TO THE ACCEPTANCE OF ANY DEVELOPMENT AND/OR IMPROVEMENTS BY THE CITY, THE DEVELOPER SHALL FURNISH A GOOD AND SUFFICIENT MAINTENANCE BOND IN ACCORDANCE WITH CITY REQUIREMENTS.
2. IF ANY PART OF THE PROPOSED DEVELOPMENT IS LOCATED WITHIN AN "AREA OF SPECIAL FLOOD HAZARD" BASED ON THE MAPS PROVIDED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA), AN APPLICATION FOR A FLOODPLAIN DEVELOPMENT PERMIT IS REQUIRED IN ACCORDANCE WITH THE CITY OF MIDLOTHIAN'S FLOOD DAMAGE PREVENTION ORDINANCE. CONTACT THE CITY ENGINEER FOR PERMIT APPLICATION.
3. MODIFICATIONS TO PLANS (FIELD CHANGES) SHALL BE APPROVED BY CITY ENGINEER PRIOR TO CONSTRUCTION.
4. PRIOR TO WALK-THROUGH, DEVELOPER SHALL VERIFY THAT CONSTRUCTION IS IN ACCORDANCE WITH CONSTRUCTION STANDARD DETAILS AND DESIGN CRITERIA. PRIOR TO FINAL INSPECTION, DEVELOPER SHALL VERIFY ALL PUNCH LIST ITEMS HAVE BEEN ADDRESSED AND CITY ENGINEER HAS APPROVED COMPLETED INVENTORY AND COST FORM.
5. A PRE-CONSTRUCTION CONFERENCE IS REQUIRED PRIOR TO THE START OF ANY CONSTRUCTION UNLESS OTHERWISE WAIVED BY THE CITY.
6. A TRAFFIC CONTROL PLAN SHALL BE DESIGNED AND SUBMITTED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN TEXAS WHENEVER TRAFFIC IS DISRUPTED OR IMPACTED, AS DEFINED IN THE LATEST VERSION OF THE TEXAS MUTCD. THIS PLAN SHALL BE SUBMITTED AND APPROVED BY THE CITY ENGINEER PRIOR TO THE START OF ANY APPLICABLE CONSTRUCTION.
7. IF CONSTRUCTION HAS NOT COMMENCED WITHIN ONE (1) YEAR AFTER RELEASE OF THE CONSTRUCTION PLANS BY THE CITY, RESUBMITTAL OF THE PLANS ALONG WITH APPLICABLE FEES, WHICH SHALL COMPLY WITH THE CURRENT DESIGN REQUIREMENTS SHALL BE MADE TO THE CITY FOR REVIEW.
8. NO BUILDING PERMIT SHALL BE ISSUED UNTIL COMPLETION OF ALL IMPROVEMENTS WITHIN THE DEVELOPMENT AND ACCEPTANCE BY THE CITY. THE CITY ENGINEER SHALL HAVE THE AUTHORITY, AFTER REVIEWING THE CONSTRUCTION IMPROVEMENTS, TO RELEASE PARTS OF THE DEVELOPMENT FOR BUILDING PERMITS BASED ON CITY REQUIREMENTS.

3 GENERAL NOTES

1. ALL MATERIAL AND CONSTRUCTION METHODS SHALL CONFORM TO CITY OF MIDLOTHIAN SUBDIVISION RULES AND REGULATIONS, DESIGN CRITERIA AND/OR THE LATEST EDITION OF NCTCOG PUBLIC WORKS CONSTRUCTION STANDARDS AND SPECIAL PROVISIONS.
2. IN THE EVENT AN ITEM IS NOT COVERED IN THE CITY OF MIDLOTHIAN STANDARD CONSTRUCTION DETAILS, DESIGN STANDARDS, OR THE LATEST EDITION OF NCTCOG STANDARD SPECIFICATIONS, THE CITY ENGINEER'S DECISION SHALL APPLY.
3. BACKFILL FOR WATER, SANITARY SEWER, AND STORM DRAIN PIPELINES SHALL BE BACKFILLED WITH SELECT NATIVE MATERIAL (ABOVE EMBEDMENT) IN 8" LIFTS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY. SELECT NATIVE MATERIAL SHALL BE FREE OF VEGETATIVE MATTER AND ROCKS LARGER THAN 3" DIAMETER. BACKFILL LOCATED IN THE EAGLE FORD GROUP SHALL COMPLY WITH EAGLE FORD SPECIAL DESIGN AND CONSTRUCTION STANDARDS ORDINANCE.
4. VALVES CONNECTING TO CITY WATER SYSTEM SHALL BE OPERATED BY CITY EMPLOYEES ONLY.

6 CRITERIA FOR LIFT STATION DESIGN

1. LIFT STATIONS SHALL BE ALLOWED ONLY WITH APPROVAL FROM THE CITY ENGINEER.
2. DESIGN FLOW:

RESIDENTIAL FLOW	DEVELOPMENT SIZE	
	100 HOMES OR LESS 1 GPM PER RESIDENCE	OVER 100 HOMES 0.75 GPM PER RESIDENCE
USE TCEQ RECOMMENDED FLOWS FOR OTHER LAND USES X PEAKING FACTOR OF 4.		
3. THE DESIGN SHOULD PROVIDE ADEQUATE CAPACITY TO SERVE ALL PHASES OF A DEVELOPMENT AS WELL AS THE REMAINDER OF THE DRAINAGE BASIN UPSTREAM. LIFT STATION DESIGN WILL REQUIRE A PHASED APPROACH. STATIONS MUST FUNCTION ADEQUATELY AT INITIAL LOW FLOWS AND BE SET UP TO BE EASILY UPGRADED AS DEVELOPMENT PROGRESSES. (THIS IS TYPICALLY ACCOMPLISHED BY THE INSTALLATION OF A LARGE WELL WITH SMALL PUMPS INITIALLY AND ACCOMMODATIONS FOR LARGER PUMPS IN THE FUTURE.) GRAVITY AND FORCE MAIN PORTIONS OF THE SYSTEM SHALL BE SIZED FOR ULTIMATE DEVELOPMENT.
4. THE STANDARD LIFT STATION SHALL INCLUDE:
 - A) SUBMERSIBLE PUMPS SHALL BE PRE-APPROVED BY THE CITY OF MIDLOTHIAN, EXPLOSION PROOF WITH STAINLESS STEEL RAIL-TYPE SUPPORTS. (GRINDER PUMPS ALLOWED ONLY WITH CITY ENGINEER APPROVAL).
 - B) PLUG VALVES AND CHECK VALVES LOCATED OUTSIDE OF WET WELL IN VAULTS.
 - C) ALL FITTINGS, BRACKETS, HARDWARE, ETC. (ALL METALS) SHALL BE STAINLESS STEEL.
 - D) STAINLESS STEEL LIFT CHAIN SHALL BE USED INSTEAD OF CABLE.
 - E) MANUAL TRANSFER SWITCH AND PLUG.
 - F) DESIGN VOLTAGE 460 VOLT/3 PH.
 - G) 110 VOLT DUPLEX ELECTRICAL OUTLET.
 - H) WET WELL SHALL HAVE A MONOLITHIC HIGH-BUILD EPOXY PROTECTIVE COATING WITH PRIMER.
 - I) LED DUSK TO DAWN SECURITY LIGHT. FIBERGLASS WET WELL MAY BE USED IN LIEU OF CONCRETE LINED WET WELL UPON CITY ENGINEER APPROVAL.
 - J) 12" WIDE CONCRETE ACCESS ROAD IS REQUIRED. CONCRETE ROAD SHALL BE CROWNED WITH A 2% CROSS-SLOPE, 6" THICK WITH #4 BARS ON 24" C-C ON COMPACTED SUBGRADE.
 - K) STATION MUST BE FENCED WITH CONTROLLED ACCESS. FENCES SHALL BE INTRUDER-RESISTANT CONCRETE MASONRY, CHAIN LINK WITH VINYL SCREENING, OR AS APPROVED BY THE CITY ENGINEER.
 - L) 2" (MIN) WATER SERVICE SHALL BE PROVIDED TO THE LIFT STATION SITE.
 - M) GATES SHALL BE 12' MIN. DOUBLE SWINGING GATES.
 - N) LIFT STATIONS SHALL BE PROVIDED WITH A FLOOR STYLE HOIST/Crane SOCKET, MODEL NUMBER D3S LINED, AS MANUFACTURED BY HALLIDAY PRODUCTS OR APPROVED EQUAL.
 - O) STEEL SAFETY GRATE REQUIRED ON WELL OPENING.
 - P) CONTROL PANEL ENCLOSURE SHALL BE NEMA TYPE 4X ENCLOSURE SIDE-MOUNTED AT AN APPROPRIATE ELEVATION (MINIMUM 2 FEET ABOVE FINISH GROUND).
 - Q) METAL COVER AWNING SHALL BE INSTALLED OVER MOTOR CONTROL CENTER AND GENERATOR (AS APPLICABLE), WITH LED LIGHTING UNDER AWNING(S).
5. LIFT STATION DESIGN SHALL COMPLY WITH TCEQ REQUIREMENTS. A PARTIAL LIST OF KEY ITEMS INCLUDES THE FOLLOWING:
 - A) STATION MUST BE PROTECTED FROM 100-YEAR FLOOD.
 - B) STATION MUST BE ACCESSIBLE DURING 25-YEAR, 24-HOUR RAINFALL EVENT.
 - C) MINIMUM WASTEWATER RETENTION REQUIREMENTS ARE BASED ON POWER RELIABILITY, OR ALTERNATIVE POWER SOURCE, INCLUDING PERMANENT GENERATOR WITH AUTOMATIC TRANSFER SWITCH.
 - D) SCADA EQUIPMENT AND TECHNICAL SERVICES TO INSTALL, PROGRAM AND TEST FUNCTIONALITY OF STATION REQUIRED IN ACCORDANCE WITH CURRENT CITY POLICIES.
 - BASE UNIT SHALL MONITOR FOR POWER LOSS, HIGH WATER, PUMP STARTS AND RUN TIME
 - SUBMERSIBLE LEVEL TRANSMITTER TO MONITOR WET WELL LEVEL TRENDING, PUMP FALL AND SET UP PUMP CONTROL.
 - EQUIPMENT TO INCLUDE SCADAPACK 334 PLC, UPS, CELLULAR MODEM, NEMA 4X ENCLOSURE AND RAIN GUAGE
 - E) SEE TCEQ LATEST SANITARY SEWER DESIGN CRITERIA, RULES, AND REGULATIONS FOR MORE INFORMATION.
6. VERIFY THAT THE PROJECT IS NOT WITHIN A FLOODPLAIN. IF IT IS, A FLOODPLAIN DEVELOPMENT PERMIT MUST BE OBTAINED FROM THE CITY AND COMPLETED. IF THE PROJECT IS NOT WITHIN A FLOODPLAIN, INCLUDE A NOTE IN THE PLANS THAT STATE THIS FACT AND REFERENCE THE APPROPRIATE FLOOD INSURANCE RATE MAP.
7. CONTRACTOR SHALL PROVIDE LIFT STATION SIGNS SHOWING NAME OF LIFT STATION, OWNER NAME AND ADDRESS, CONTACT PHONE NUMBER, AND EMERGENCY CONTACT PHONE NUMBER (CONTACT CITY FOR INFORMATION).

NOTE: THIS IS SHT. SD-15 OF THE STANDARD CONSTRUCTION DETAILS, ORDINANCE NO. 2013-51. EFFECTIVE DATE: JANUARY 1, 2014 REV. 1 - ORDINANCE NO. 2018-16

*CITY OF MIDLOTHIAN, TEXAS
DEPARTMENT OF ENGINEERING,
UTILITIES, AND PUBLIC WORKS*

**STANDARD CONSTRUCTION DETAILS
GENERAL REQUIREMENTS**

DEVELOPMENT & UTILITY NOTES



NO.	REVISION:	DATE:	SHEET:
			SD-15