

GENERAL CONSTRUCTION NOTES

1.

ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF MANSFIELD STANDARD SPECIFICATIONS AND THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (NCTCOG) STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AND STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION (LATEST-EDITIONS) UNLESS OTHERWISE NOTED.
2.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL MATERIALS AND LABOR TO CONSTRUCT THE FACILITY AS SHOWN AND DESCRIBED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE APPROPRIATE APPROVING AUTHORITIES, SPECIFICATIONS, AND REQUIREMENTS. ALL WORK REQUIRED BY THESE PLANS SHALL BE CONDUCTED IN CONFORMANCE WITH CURRENT SAFETY CODES AND STANDARDS WITH JURISDICTION OVER THIS PROJECT.
3.

THE CONTRACTOR SHALL CONTACT ALL FRANCHISE UTILITY COMPANIES TO HAVE THEM LOCATE EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION AND DEPTH OF ALL FRANCHISE UTILITY SERVICES AND ANY REQUIRED RELOCATION AND/OR EXTENSIONS. EXISTING SERVICES SHOWN ON THE PLANS, IF ANY, ARE CONCEPTUAL.
4.

THE CONTRACTOR SHALL PROTECT ALL PUBLIC AND PRIVATE UTILITIES IN THE CONSTRUCTION OF THIS PROJECT. ALL MANHOLES, CLEANOUTS, VALVE BOXES, POWER POLES, SIGNS, FIRE HYDRANTS, ETC., MUST BE ADJUSTED TO PROPER GRADE BY THE CONTRACTOR PRIOR TO AND AFTER PLACING OF PERMANENT PAVING. UTILITIES MUST BE MAINTAINED TO PROPER LINE AND GRADE DURING CONSTRUCTION OF THIS PROJECT.
5.

BRACING OF UTILITY POLES MAY BE REQUIRED BY UTILITY COMPANIES WHEN TRENCHING OR EXCAVATION IS IN CLOSE PROXIMITY TO THE POLES. THE COST OF BRACING POLES WILL BE BORNE BY THE CONTRACTOR. THERE IS NO SEPARATE PAY ITEM FOR THIS WORK; THE COST IS INCIDENTAL TO THE VARIOUS PAY ITEMS FOR THE PROJECT.
6.

THE LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES SHOWN ON THE PLANS WERE OBTAINED FROM AVAILABLE RECORDS AND ARE CONSIDERED APPROXIMATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS, ELEVATIONS, AND DIMENSIONS OF ADJACENT AND/OR CONFLICTING UTILITIES SUFFICIENTLY IN ADVANCE OF CONSTRUCTION IN ORDER THAT ADJUSTMENTS CAN BE MADE TO PROVIDE ADEQUATE CLEARANCES. THE CONTRACTOR SHALL PRESERVE AND PROTECT PUBLIC UTILITIES AT ALL TIMES DURING CONSTRUCTION. ANY DAMAGE TO UTILITIES RESULTING FROM CONTRACTOR'S OPERATIONS SHALL BE RESTORED AT THE CONTRACTOR'S EXPENSE. THE ENGINEER SHALL BE NOTIFIED WHEN PROPOSED FACILITY GRADES CONFLICT WITH EXISTING UTILITY GRADES.
7.

THE CONTRACTOR SHALL IMMEDIATELY REPAIR OR REPLACE ANY PHYSICAL DAMAGE TO PRIVATE PROPERTY, INCLUDING, BUT NOT LIMITED TO FENCES, WALLS, PAVEMENT, GRASS, TREES, AND LAWN SPRINKLER OR IRRIGATION SYSTEMS AT NO COST TO THE OWNER. THIS WORK SHALL BE SUBSIDIARY TO THE CONTRACT (UNLESS OTHERWISE NOTED) AND IS NOT A SEPARATE PAY ITEM.
8.

THE CONTRACTOR SHALL REMOVE SURPLUS MATERIAL FROM THE PROJECT AREA. THIS WORK SHALL BE SUBSIDIARY TO THE CONTRACT AND IS NOT A SEPARATE PAY ITEM.
9.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION.
10.

THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES A COPY OF ANY REQUIRED CONSTRUCTION PERMITS, EROSION CONTROL PLANS, SWPPP WITH INSPECTION REPORTS, AND THE CONTRACT DOCUMENTS INCLUDING PLANS, SPECIFICATIONS, AND SPECIAL CONDITIONS.
11.

ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN SHALL BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND NOTIFICATION TO THE ENGINEER. NO CONSIDERATION WILL BE GIVEN TO CHANGE ORDERS FOR WHICH THE OWNER AND ENGINEER WERE NOT CONTACTED PRIOR TO CONSTRUCTION OF THE AFFECTED ITEM.
12.

ALL COPIES OF COMPACTION, CONCRETE AND OTHER REQUIRED TEST RESULTS SHALL BE SENT TO THE ENGINEER, CONTRACTOR AND OWNER DIRECTLY FROM THE TESTING AGENCY.
13.

ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES, JURISDICTIONAL AGENCIES AND/OR UTILITY SERVICE COMPANIES SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO PROJECT ACCEPTANCE AND THE FINAL CONNECTION OF SERVICES.
14.

CONTRACTOR SHALL VERIFY BENCHMARKS AND DATUM PRIOR TO COMMENCING CONSTRUCTION OR STAKING OF IMPROVEMENTS.
15.

CONTRACTOR SHALL THOROUGHLY CHECK COORDINATION OF CIVIL, LANDSCAPE, AND OTHER PLANS PRIOR TO COMMENCING CONSTRUCTION. OWNER AND ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY PRIOR TO COMMENCING WITH CONSTRUCTION.
16.

ALL HORIZONTAL DIMENSIONS GIVEN ARE TO FACE OF CURB AND TO PIPE CENTERLINES UNLESS OTHERWISE NOTED ON PLANS.

17.

ALL CUT OR FILL SLOPES SHALL BE 4:1 OR FLATTER UNLESS OTHERWISE SHOWN.
18.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION. THIS WORK SHALL BE SUBSIDIARY TO THE CONTRACT AND IS NOT A SEPARATE PAY ITEM.
19.

UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE THE PROJECT ENGINEER, A COPY OF RECORD DRAWINGS IDENTIFYING ALL DEVIATIONS OR VARIATIONS FROM THE ORIGINAL PLANS.
20.

CONTRACTOR SHALL GIVE NOTICE TO ALL AFFECTED PARTIES AND ALL AUTHORIZED INSPECTORS, SUPERINTENDENTS, OR PERSONS IN CHARGE OF PRIVATE AND PUBLIC UTILITIES OR RAILROADS AFFECTED BY HIS OPERATIONS, AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
21.

IT IS THE INTENT OF THE CONTRACT DOCUMENTS TO PROVIDE AN INSTALLATION COMPLETE IN EVERY RESPECT. IF THE CONTRACT DOCUMENTS DO NOT SUFFICIENTLY DESCRIBE THE FINAL PRODUCT, THE CONTRACTOR SHALL BRING SUCH TO THE ATTENTION OF THE ENGINEER. UNLESS OTHERWISE SPECIFIED, IT IS THE CONTRACTOR'S RESPONSIBILITY FOR METHODOLOGY OF CONSTRUCTION TO COMPLETE THE WORK INDICATED OR SPECIFIED. CONTRACTOR IS TO PROVIDE SAME AND PROVIDE MATERIALS AND EQUIPMENT USUALLY FURNISHED WITH SUCH SYSTEMS OR REQUIRED TO COMPLETE THE INSTALLATION, WHETHER SPECIFICALLY MENTIONED OR NOT.
22.

CONTRACTOR SHALL COMPLY WITH ALL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS AND REGULATIONS, AS WELL AS ANY OTHER APPLICABLE FEDERAL, STATE, OR LOCAL HEALTH AND SAFETY STANDARDS, LAWS, OR REGULATIONS. FAILURE TO COMPLY WITH THE REQUIREMENTS SPECIFIED SHALL BE CONSIDERED JUST AND SUFFICIENT CAUSE FOR OWNER TO STOP WORK.
23.

CONTRACTOR SHALL COMPLY WITH TEXAS HOUSE BILL 1569, EFFECTIVE SEPTEMBER 1, 1989, TO MAINTAIN A VIABLE TRENCH SAFETY SYSTEM AT ALL TIMES AS WELL AS THE U.S. DEPARTMENT OF LABOR, OSHA, "CONT. SAFETY AND HEALTH REGULATIONS"; COL. 29, SUB PART P, AND AMENDMENTS THERETO. SHEETING, SHORING, BRACING, AND OTHER TRENCH SAFETY COSTS SHALL BE SUBSIDIARY TO THE COST CONSTRUCTION (NO EXTRA PAY).

GAS, ELECTRIC, TELEPHONE NOTES

1.

CONTRACTOR SHALL CONTACT NECESSARY FRANCHISE UTILITY COMPANIES PRIOR TO CONSTRUCTION, IN ORDER TO LOCATE AND/OR DISCONNECT EXISTING SERVICES, AND TO COORDINATE NEW SERVICE.
2.

ANY FRANCHISE UTILITY LOCATIONS SHOWN ON THESE DRAWINGS ARE CONCEPTUAL ONLY. THE CONTRACTOR SHALL COORDINATE THE EXACT DESIGN, ALIGNMENT, INSTALLATION REQUIREMENTS AND COST SHARING ARRANGEMENTS WITH THE INDIVIDUAL UTILITY PROVIDERS AND THE PROJECT OWNER. THE CONTRACTOR SHALL INCLUDE IN THE BASE BID, ALL ASSOCIATED COSTS TO INSTALL FRANCHISE UTILITY (GAS, ELEC, PHONE, CABLE) SERVICE TO PROPOSED BUILDINGS. THE CONTRACTOR SHALL ESTABLISH ADEQUATE LEAD TIME IN THEIR CONSTRUCTION SCHEDULE FOR COORDINATING AND PROCURING FRANCHISE UTILITY SERVICES.

GRADING NOTES

1.

THE CONTRACTOR SHALL FIELD VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING UTILITIES (SHOWN OR NOT SHOWN). IF ANY EXISTING UTILITIES ARE DAMAGED, THE CONTRACTOR SHALL REPLACE THEM AT THE CONTRACTOR'S EXPENSE.
2.

THE CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE FROM THE FUTURE BUILDINGS AND NO PONDING IN PAVED AREA. CONTRACTOR FIELD ADJUSTMENTS TO SPOT GRADES TO MAINTAIN POSITIVE DRAINAGE ARE ALLOWED WITH THE PRIOR APPROVAL OF THE ENGINEER. CONTRACTOR SHALL CONTACT THE ENGINEER PRIOR TO PAVING, IF ANY AREAS OF POOR DRAINAGE ARE ENCOUNTERED.
3.

THE CONTRACTOR SHALL PROTECT ALL MANHOLE COVERS, VALVE COVERS, VAULT LIDS, FIRE HYDRANTS, POWER POLES, GUY WIRES, AND TELEPHONE BOXES WHICH ARE TO REMAIN IN PLACE AND UNDISTURBED DURING CONSTRUCTION.
4.

THE CONTRACTOR SHALL CALCULATE THEIR OWN EARTHWORK QUANTITIES TO DETERMINE THEIR BID. THE CONTRACTOR IS EXPECTED TO CONSTRUCT THE PROJECT PER THE APPROVED GRADING PLANS.
5.

ALL FILL MATERIAL SHALL BE COMPACTED TO A DENSITY RANGING FROM 95 TO 100 PERCENT OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698, STANDARD PROCTOR DENSITY.
6.

THE MOISTURE CONTENT FOR GENERAL EARTH FILL SHOULD RANGE FROM 2 PERCENTAGE POINTS BELOW OPTIMUM TO 5 PERCENTAGE POINTS ABOVE OPTIMUM (-2 TO +5).
7.

CONCRETE PAVEMENT SUBGRADE SHALL BE 6" THICK AND PLACED AND COMPACTED IN 8" LOOSE LIFTS. SUBGRADE SHALL BE SCARIFIED TO A

- MINIMUM DEPTH OF 6" AND UNIFORMLY COMPACTED TO A MINIMUM OF 95% MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698, STANDARD PROCTOR DENSITY, FROM 2 PERCENTAGE POINT BELOW OPTIMUM TO 4 PERCENTAGE POINTS ABOVE OPTIMUM (-2% TO +4%).
8.

A GEOTECHNICAL ENGINEERING REPORT WAS PREPARED FOR THE ADJACENT BUILDING BY CMJ ENGINEERING REPORT NO. 398-11-33, DATED APRIL 08, 2011 AND SHALL BE REFERENCED FOR SUBSURFACE EXPLORATION FINDINGS AND GEOTECHNICAL RECOMMENDATIONS FOR CONSTRUCTION OF PAVEMENT AND EARTH WORK.

PAVING AND STRIPING NOTES

1.

TESTING OF MATERIALS REQUIRED FOR THE CONSTRUCTION OF THE PAVING IMPROVEMENTS SHALL BE PERFORMED BY AN AGENCY, APPROVED BY THE OWNER, FOR TESTING MATERIALS. PROCUREMENT OF THE TESTING LABORATORY AND THE PAYMENT OF SUCH TESTING SERVICES SHALL BE MADE BY THE OWNER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE, BY THE STANDARD TESTING PROCEDURES, THAT THE WORK CONSTRUCTED MEETS THE REQUIREMENTS OF THE PROJECT SPECIFICATIONS.
2.

ALL SIGNS, PAVEMENT MARKINGS AND OTHER TRAFFIC CONTROL DEVICES REQUIRED FOR THE PROJECT SHALL CONFORM TO THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (TMUCD).
3.

SIGN LOCATIONS AND INSTALLATIONS SHALL BE IN ACCORDANCE WITH NCTCOG STANDARDS. THE CONTRACTOR SHALL REVIEW LOCATION OF ALL TRAFFIC CONTROL DEVICES WITH THE OWNER PRIOR TO INSTALLATION.
4.

ANY EXISTING CONCRETE OR ASPHALT TO BE REMOVED SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR. THIS WORK SHALL BE SUBSIDIARY TO THE CONTRACT AND IS NOT A SEPARATE PAY ITEM.
5.

THE PAVING CONTRACTOR AND THE UTILITY CONTRACTOR SHALL COORDINATE TO ENSURE THAT ALL UTILITY SERVICE CONNECTIONS AND CONDUITS ARE IN PLACE PRIOR TO BEGINNING ANY PAVING ACTIVITIES.
6.

STEEL REINFORCEMENT BARS SHALL BE USED. REFER TO NCTCOG ITEM 303.2.9 SPECIFICATIONS.
7.

THE CONTRACTOR SHALL INSTALL SUPPORTING CHAIRS FOR REINFORCING STEEL ON A ONE SQUARE YARD SPACING IN ALL CONCRETE PAVEMENTS. THE CHAIRS ARE TO BE PLASTIC AND INSTALLED AS PER NCTCOG ITEM 303.2.11 SPECIFICATIONS.

8.

PORTLAND CEMENT SHALL BE AS PER NCTCOG ITEM 303 SPECIFICATIONS.
9.

AGGREGATES SHALL BE AS PER NCTCOG ITEM 303.2 SPECIFICATIONS.
10.

CONCRETE FOR ALL PAVING SHALL HAVE A MINIMUM STRENGTH OF 3,600 PSI WHEN TESTED AT 28 DAYS, UNLESS OTHERWISE NOTED.
11.

FOR HAND FORMED PAVING, ALLEYS, SIDEWALKS, AND DRIVEWAYS SLUMP SHALL BE AN AVERAGE OF FOUR INCHES WITH A MAXIMUM OF FIVE INCHES. REFER TO NCTCOG ITEM 303.3.4.4 SPECIFICATIONS.
12.

THE CONTRACTOR SHALL USE A LIQUID MEMBRANE-FORMING COMPOUND AS PER NCTCOG ITEM 303.2.13.1.1 SPECIFICATIONS.
13.

FLEXIBLE PAVEMENT SECTION MATERIALS SHALL CONSIST OF HOT MIX ASPHALT CONCRETE PER TXDOT ITEM 340, TYPE D AND FLEXIBLE BASE MATERIAL PER TXDOT ITEM 247, TYPE A OR D, GRADE 1 OR 2.

TRAFFIC CONTROL NOTES

1.

ALL TRAFFIC CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD), LATEST VERSION.
2.

ALL TEMPORARY SIGNS, BARRICADES, WARNING LIGHTS AND OTHER MISCELLANEOUS TRAFFIC CONTROL MEASURES SHALL BE REMOVED AND ORIGINAL PERMANENT SIGNS AND PAVEMENT MARKINGS REPLACED AT THE END OF THE CONTRACTOR'S CONSTRUCTION OPERATIONS.
3.

CONTRACTOR SHALL COVER STREET EXCAVATIONS WITH ADEQUATE ANCHORED STEEL PLATES DURING NONWORKING HOURS AND OPEN LANES OF TRAFFIC FLOW.

CONCRETE PAVING NOTES

1.

CONCRETE PAVEMENT SHALL BE CLASS C (3,600 PSI MIN.) AS SPECIFIED IN THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNEMENTS (NCTCOG) PUBLIC WORKS CONSTRUCTION STANDARD SPECIFICATIONS ITEM 303. PORTLAND CEMENT CONCRETE PAVEMENT WITH A MAXIMUM WATER/CEMENT RATIO OF 0.53 AND A MAXIMUM COARSE AGGREGATE SIZE OF 1-1/2".
2.

CONCRETE SIDEWALKS SHALL BE CLASS A (3,000 PSI MIN.) AS SPECIFIED IN THE NCTCOG PUBLIC WORKS CONSTRUCTION STANDARD SPECIFICATIONS ITEM 303. PORTLAND CEMENT CONCRETE PAVEMENT

- WITH A MAXIMUM WATER/CEMENT RATIO OF 0.58 AND A MAXIMUM COARSE AGGREGATE SIZE OF 1-1/2".
3.

SLUMP FOR SLIP FORM PAVING SHALL BE AN AVERAGE OF 3-INCHES WITH A MAXIMUM OF 4-INCHES.
4.

SLUMP FOR HAND FORMED PAVING (INCLUDING SIDEWALKS) SHALL BE AN AVERAGE OF 4-INCHES WITH A MAXIMUM OF 5-INCHES.
5.

ALL REINFORCING STEEL FOR PAVING SHALL #3 GRADE 60 BARS ON 18-INCH CENTERS BOTH WAYS SUPPORTED WITH THE APPROPRIATE BAR CHAIRS.
6.

WHERE REINFORCING BARS ARE SPLICED, A 30 DIAMETER LAP SHALL BE USED.
7.

WITH THE APPROVAL OF THE OWNER, FLY ASH CONFORMING TO ASTM C618 MAY BE USED IN ALL CLASSES OF CONCRETE TO REPLACE A PORTION OF THE PORTLAND CEMENT IN THE MIX DESIGN UP TO A MAXIMUM OF 25% BY WEIGHT PER CUBIC YARD OF CONCRETE.
8.

EXPANSION JOINTS IN PAVEMENT SHALL BE LOCATED AT INTERSECTION P.C.'S AND P.T.'S AND ALL STRUCTURES OR MANHOLES PROTRUDING THROUGH OR ADJACENT TO THE PAVEMENT.

9.

SAWED CONTRACTION JOINTS SHALL BE SPACED BETWEEN 12 AND 15 FEET EACH WAY IN PAVEMENT. JOINTS SHALL BE SAWED INTO THE COMPLETED PAVEMENT SURFACE AS SOON AFTER INITIAL CONCRETE SET AS POSSIBLE SO THAT SOME RAVELING OF THE GREEN CONCRETE IS OBSERVED IN ORDER FOR THE SAWING PROCESS TO PREVENT UNCONTROLLED SHRINKAGE CRACKING.
10.

ALL JOINTS SHALL BE SEALED WITH HOT POURED POLYMER OR READY-MIXED COLD-APPLIED SEALANT CONFORMING TO NCTCOG ITEM 302.2.14.
11.

PRIOR TO CONSTRUCTION, GENERAL CONTRACTOR AND PAVING CONTRACTOR SHALL CONSULT AND COORDINATE WITH IRRIGATION CONTRACTOR FOR POTENTIAL IRRIGATION SLEEVE LOCATIONS.

WATER NOTES

1.

ALL 4"-12" WATER DISTRIBUTION PIPE MUST BE PVC, AWWA C900, DR-14 (MINIMUM), CLASS 200 PSI PIPE, BLUE IN COLOR WITH GASKETS MEETING ASTM F477 AND JOINTS IN COMPLIANCE WITH ASTM D3139.
2.

ALL PUBLIC 1/2" - 3" WATER SERVICE PIPES MUST BE CONTINUOUS TYPE "K" COPPER AND MUST MEET THE CITY OF WEATHERFORD WATER SERVICE DETAIL.
3.

ALL VALVES 2" THROUGH 12" MUST BE RESILIENT SEAT GATE VALVE, AND MUST MEET ALL AWWA AND FIRE PROTECTION STANDARDS.
4.

VALVE BOXES ARE TO BE ADJUSTABLE CAST IRON TWO PIECE WITH LIDS MARKED "WATER".
5.

ALL MECHANICAL TYPE FITTINGS MUST BE DUCTILE IRON TYPE THAT MEETS ALL C110/A21-10 ANSI/AWWA STANDARDS. ALL FITTINGS SUBJECT TO THRUST SHALL BE THRUST BLOCKED AS SHOWN ON DETAILS. ADDITIONALLY, FITTINGS SHALL HAVE MECHANICAL JOINT RESTRAINTS, EBAA IRON SERIES 2000 PV OR APPROVED EQUAL.
6.

ALL DUCTILE IRON FITTINGS MUST BE WRAPPED WITH 2 LAYERS OF 6 MIL PLASTIC WRAP AND SECURELY TAPED.
7.

ALL DUCTILE IRON TEES MUST BE ANCHOR TYPE.
8.

PRIOR TO BEING PLACED INTO SERVICE, ALL WATER MAINS SHALL BE HYDROSTATICALLY TESTED IN ACCORDANCE WITH NCTCOG STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION.
9.

10 TO 12 GAUGE TRACING WIRE (SOLID CORE) WILL BE INSTALLED ON ALL PVC WATER MAINS.
10.

TAPPING SLEEVES SHALL BE STAINLESS STEEL OR EPOXY COATED STEEL. NUTS AND BOLTS SHALL BE STAINLESS STEEL.
11.

ALL WATER MAINS 2"-12" SHALL MAINTAIN A MINIMUM COVER OF 42".

12.

ALIGNMENT CHANGES SHALL BE LIMITED TO LESS THAN 85% OF THE PIPE MANUFACTURER'S ALLOWABLE JOINT DEFLECTION OR SHALL BE MADE USING DUCTILE IRON FITTINGS. ALIGNMENT DEFLECTIONS OTHER THAN AT PIPE JOINTS SHALL NOT BE MADE.
13.

PROPOSED WATER LINES SHALL BE INSTALLED NO CLOSER THAN NINE FEET IN ALL DIRECTIONS TO WASTEWATER COLLECTION FACILITIES INCLUDING SERVICE LINES, AND SHALL BE INSTALLED IN SEPARATE TRENCHES IF RUNNING PARALLEL. NO PHYSICAL CONNECTION SHALL BE MADE BETWEEN A DRINKING WATER SUPPLY AND A SEWER LINE, ANY APPURTENANCE SHALL BE DESIGNED AND CONSTRUCTED SO AS TO PREVENT ANY POSSIBILITY OF SEWAGE ENTERING THE DRINKING WATER SYSTEM. WHERE A NINE-FOOT SEPARATION DISTANCE CANNOT BE

ACHIEVED, THE WATER AND WASTEWATER COLLECTION PIPES SHALL BE CONSTRUCTED IN ACCORDANCE WITH 30 TAC 290.44(e) (WATER DISTRIBUTION) AND 30 TAC 217.53(d) (PIPE DESIGN).

SANITARY SEWER NOTES

1.

SANITARY SEWER PIPE SHALL BE PVC SDR-35 IF DEPTH OF LINE IS LESS THAN 12 FEET AND PVC SDR-26 IF DEPTH OF LINE IS GREATER THAN 12 FEET IN CONFORMANCE WITH ASTM D3034.
2.

SANITARY SEWER PIPE SHALL BE GREEN OR WHITE IN COLOR. PIPE MUST ALSO HAVE MARKING TAPE WITH WORDING "WASTEWATER MAIN" ATTACHED TO THE PIPE.
3.

ALL SANITARY SEWER SERVICES SHALL BE AS INDICATED ON THE PLANS.
4.

ALL SANITARY SEWER MAINS AND SERVICES SHALL HAVE 10 TO 12 GAUGE SOLID CORE TRACER WIRE INSTALLED.
5.

ALL SANITARY SEWER MAINS SHALL MAINTAIN A MINIMUM COVER OF 42".
6.

SANITARY SEWER MANHOLES IN UNPAVED AREAS SHALL BE ADJUSTED TO BE 6" ABOVE GRADE.
7.

ALL DROP MANHOLES 2' OR LESS MUST USE A HYDRAULIC SLIDE. ALL DROPS GREATER THAN 2' MUST BE EXTERNAL.

STORM DRAINAGE NOTES

1.

STORM DRAINAGE MATERIALS AND CONSTRUCTION METHODS SHALL CONFORM TO NCTCOG SPECIFICATIONS, AND THESE PLANS AND SPECIFICATIONS.
2.

ALL CONCRETE STORM DRAINAGE PIPE SHALL BE R.C.P. ASTM C-76, CLASS III (UNLESS OTHERWISE STATED), WITH RUBBER GASKET JOINTS, BEDDED PER CITY OF MANSFIELD DETAILS UNLESS OTHERWISE SHOWN.
3.

ALL PUBLIC HIGH-PERFORMANCE POLYPROPYLENE STORM DRAINAGE PIPE (HP STORM) SHALL CONFORM TO ASTM F2881 AND ASHTO M30. BEDDINGS AND INSTALLATION SHALL MEET MANUFACTURER'S DETAILS UNLESS OTHERWISE SHOWN.
4.

ALL PRIVATE HIGH-DENSITY CORRUGATED SMOOTH LINED POLYETHYLENE STORM DRAINAGE PIPE (HDPE) SHALL CONFORM TO AASHTO M-294 AND ASTM D3350 PER NCTCOG ITEM 501.23, BEDDED PER NCTCOG OR MANUFACTURER'S DETAILS UNLESS OTHERWISE SHOWN.
5.

ALL STORM DRAINAGE MANHOLES, INLETS, AND APPURTENANCES SHALL BE PER STANDARD CITY OF MANSFIELD DETAILS UNLESS OTHERWISE SHOWN AND CONSTRUCTED WITH CLASS "A" 3,000 PSI CONCRETE, UNLESS OTHERWISE STATED.



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**APPROVED**  
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Approved plans in no way  
excludes items that may be found  
in the field and shall not be  
constituted to be a permit or  
approval of any violation of any  
code provision.

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Drawing Title:

SITE SPECIFIC GENERAL NOTES

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Sheet No.

C1.1